Enantioselective CuH-Catalyzed Anti-Markovnikov Hydroamination of 1,1-Disubstituted Alkenes

Shaolin Zhu and Stephen L. Buchwald*

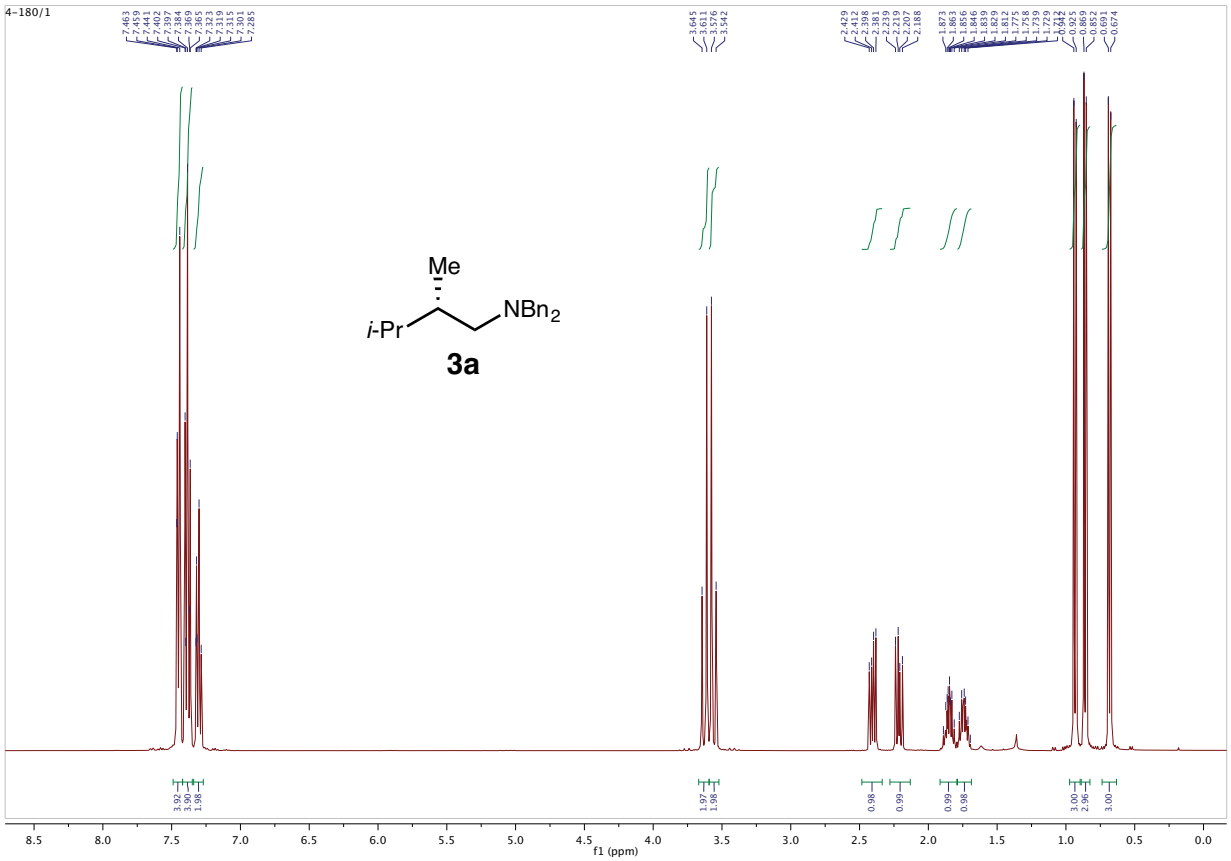
Department of Chemistry, Massachusetts Institute of Technology

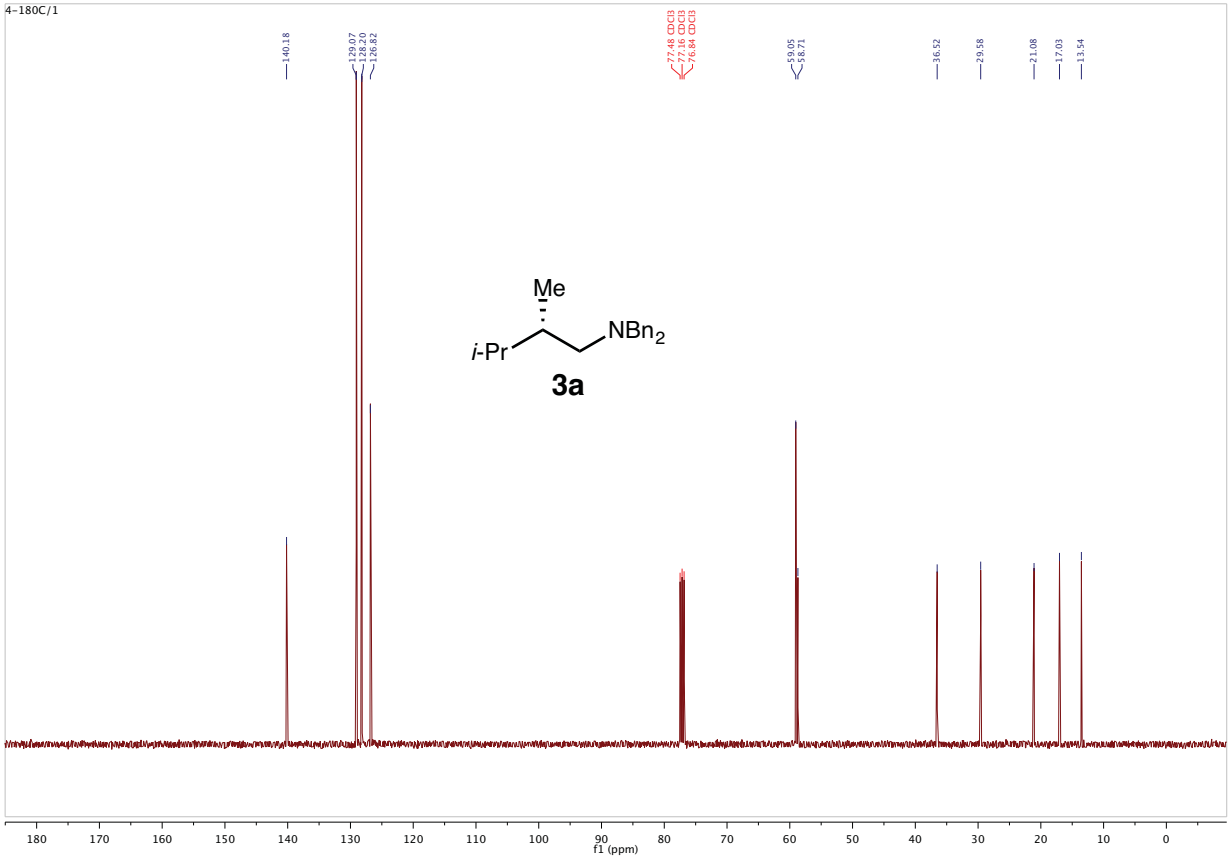
Cambridge, Massachusetts 02139, United States

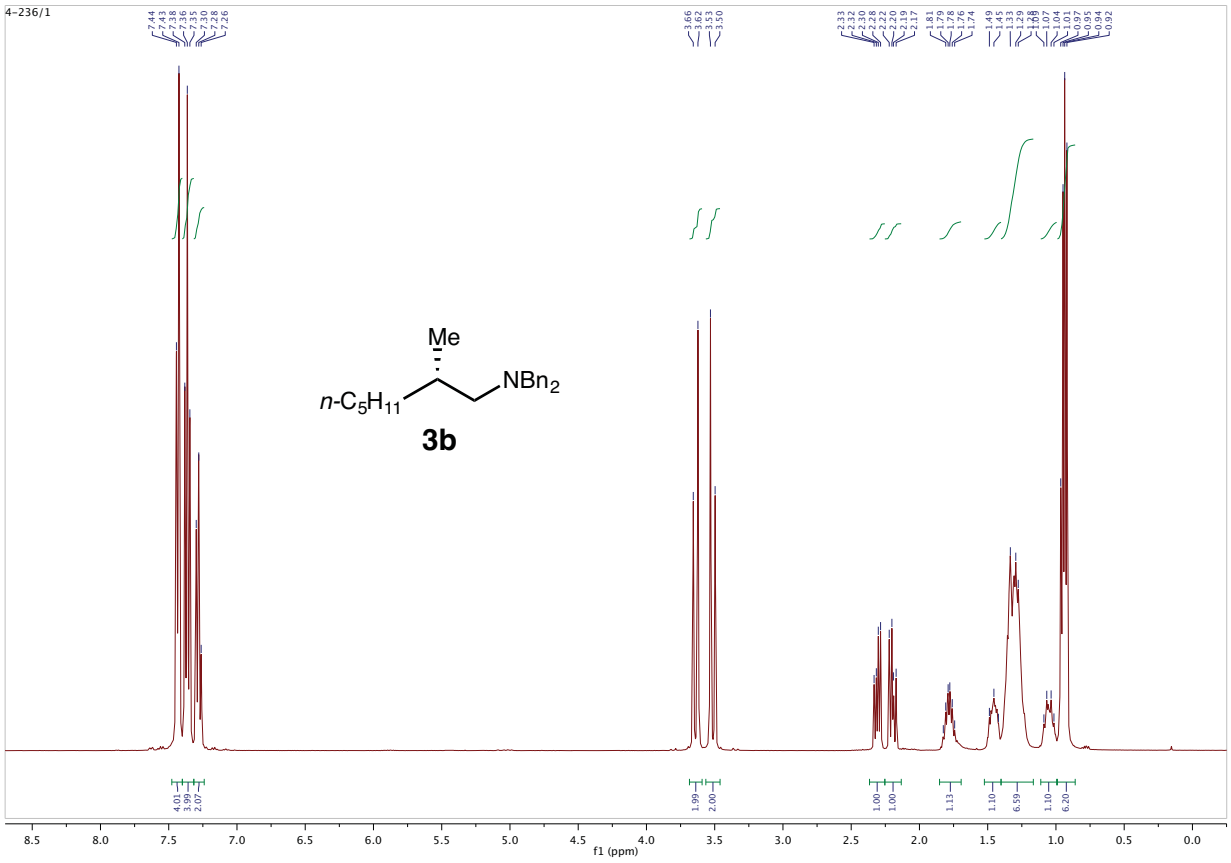
Supporting Information

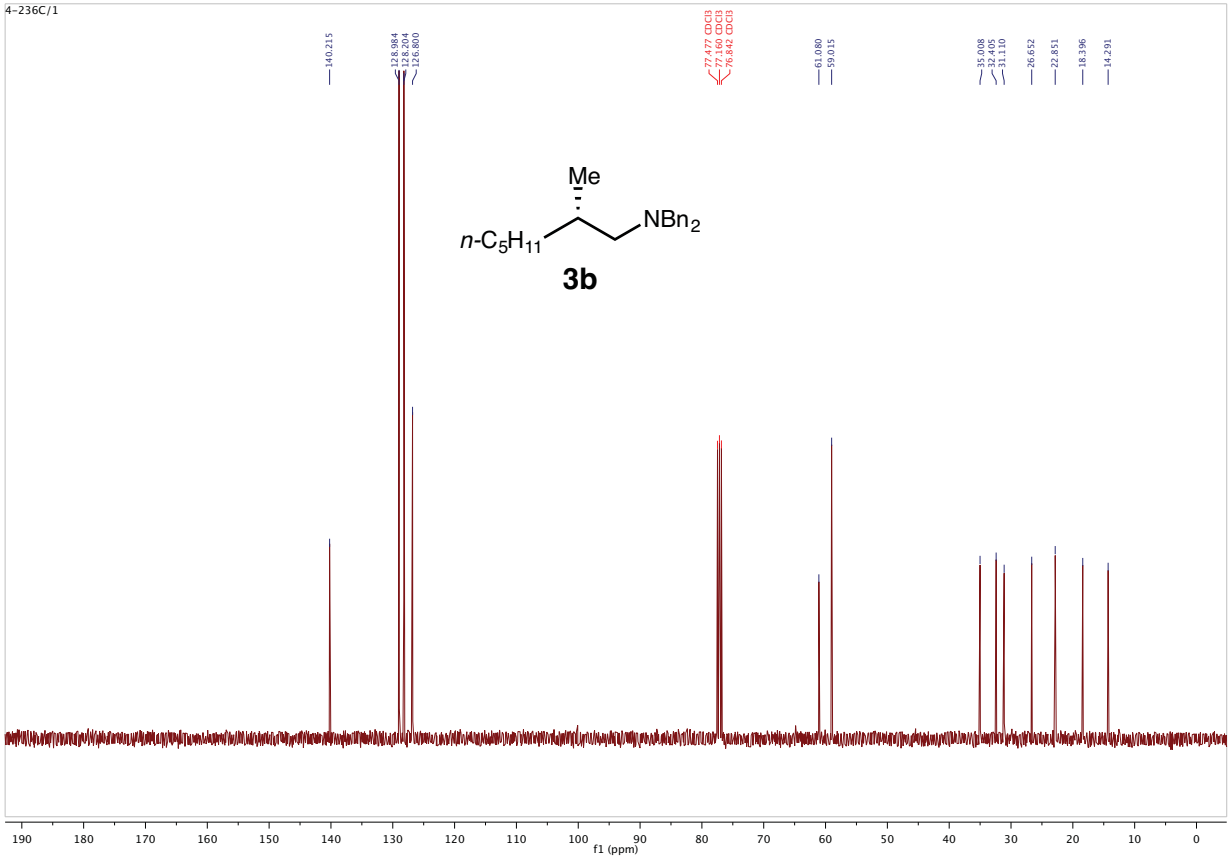
Spectra and HPLC trace

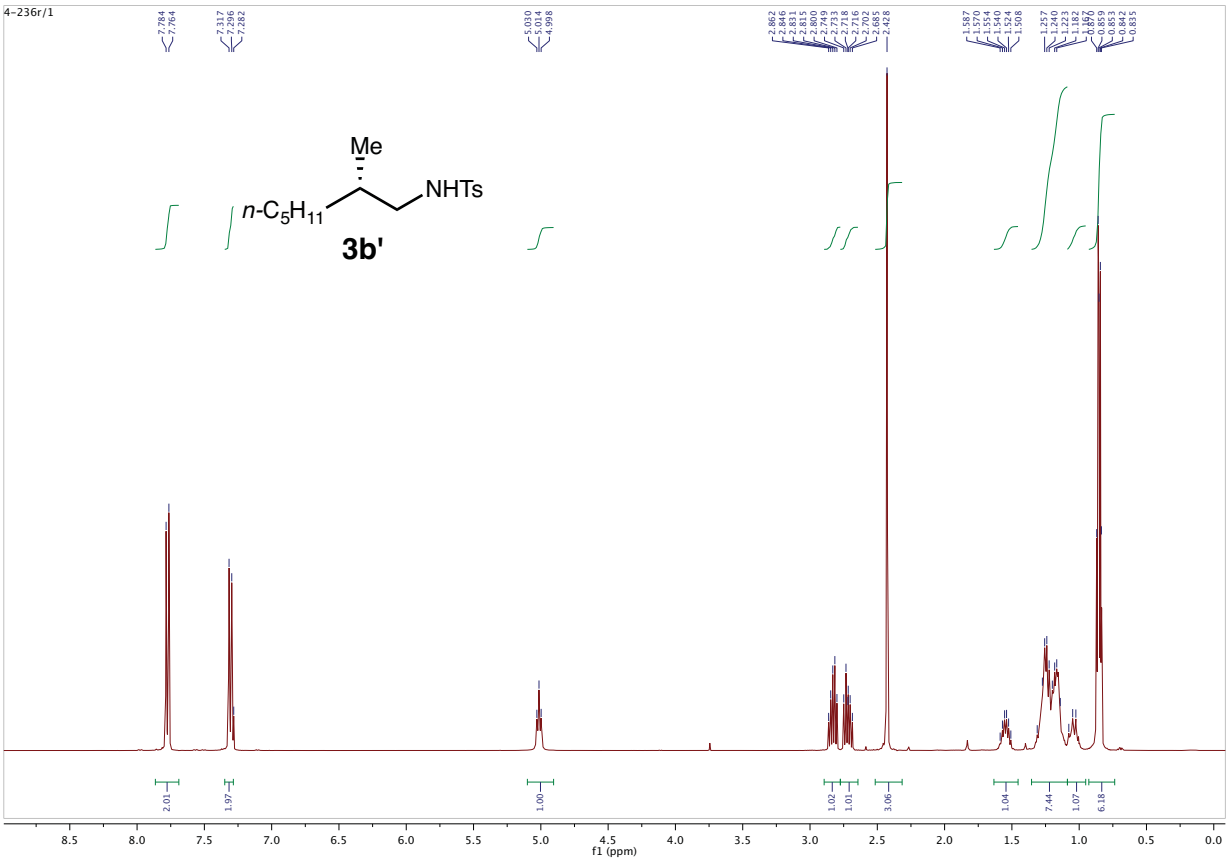
Contents

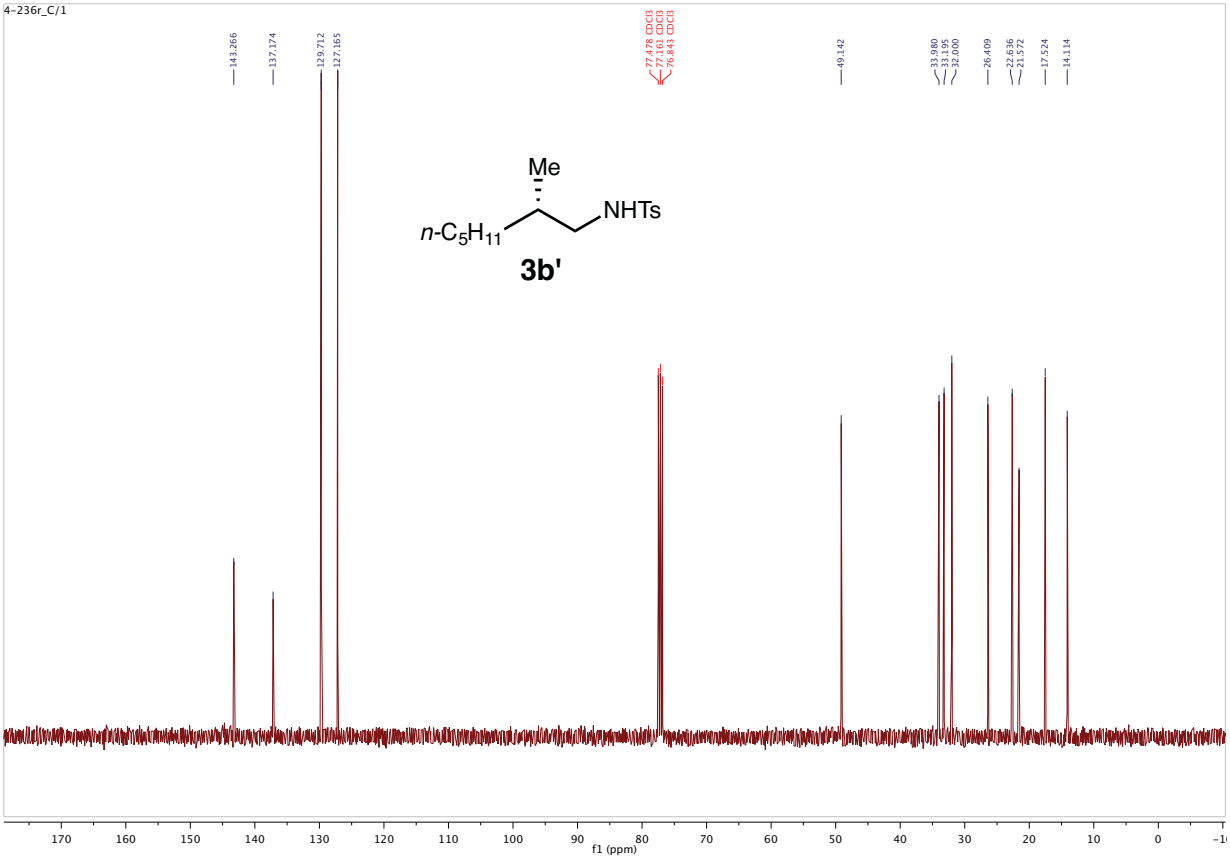

4-180/1
Me
i-Pr
NBn2
3a
f1 (ppm)

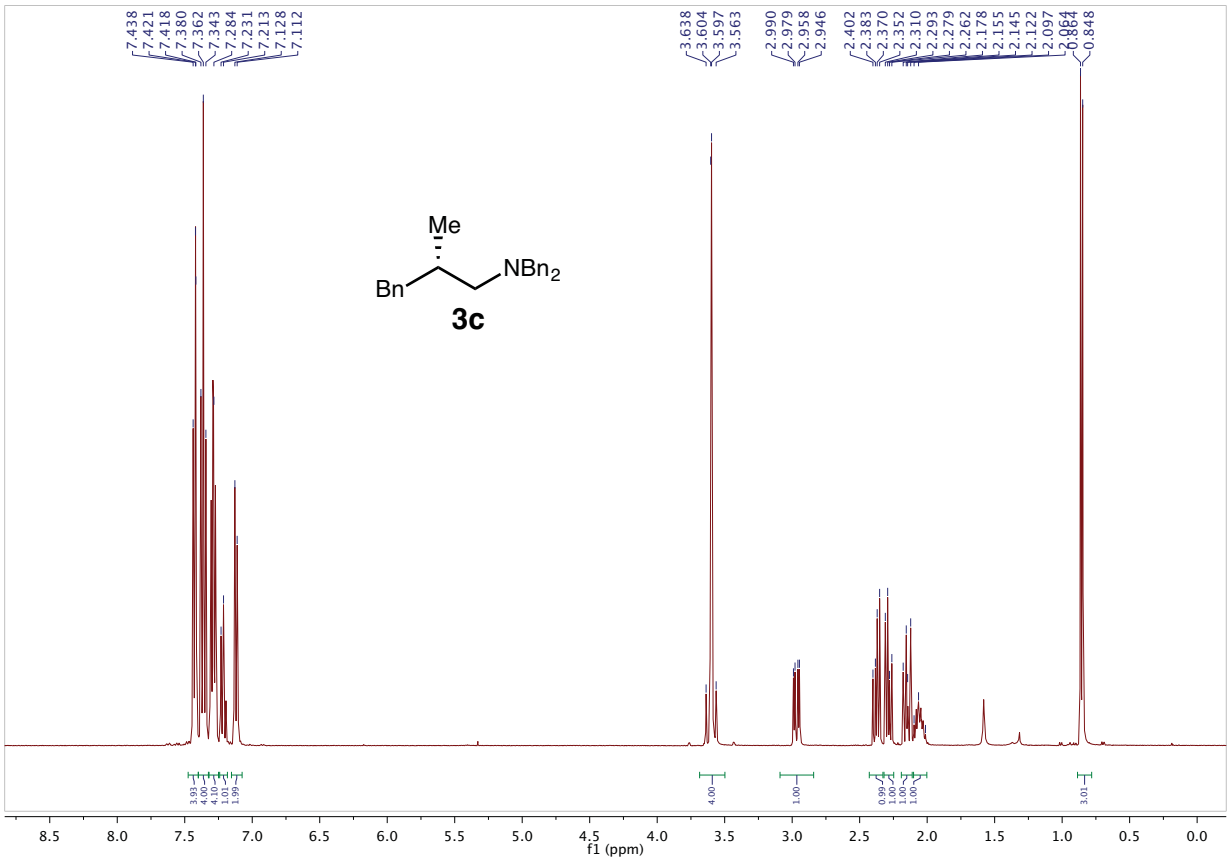

4-180C/1
Me
i-Pr
NBn2
3a
f1 (ppm)

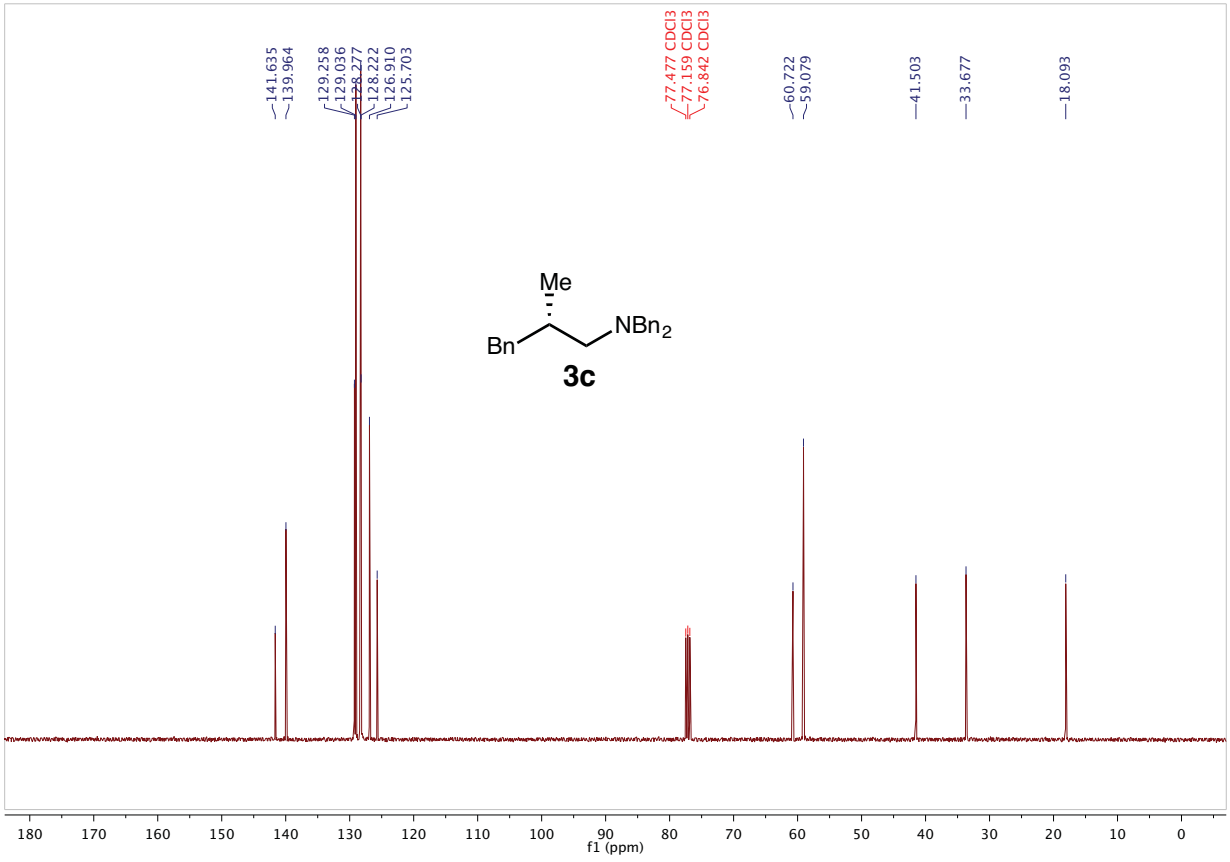

4-236/1
Me
NBn2
n-C5H11
3b
f1 (ppm)

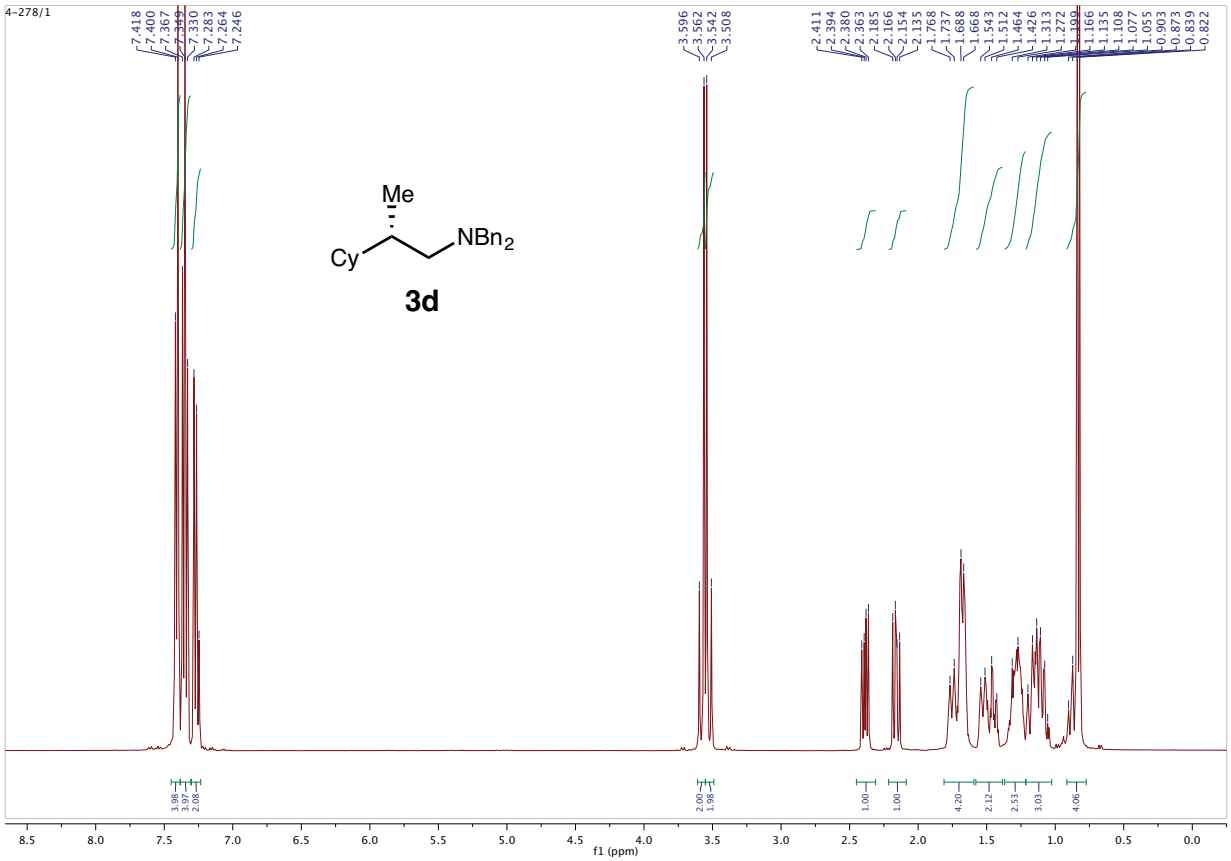

4-236C/1
Me
NBn2
n-C5H11
3b
f1 (ppm)

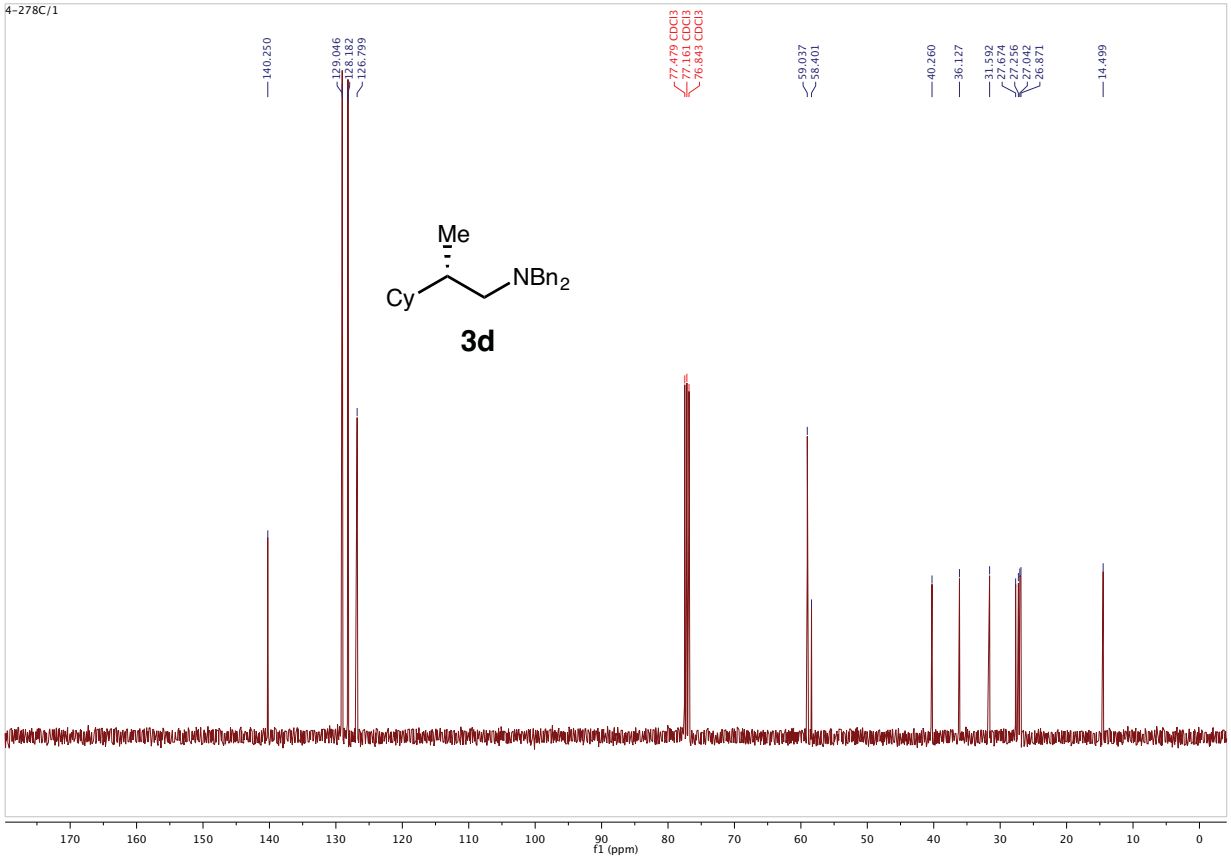

4-236r/1
Me
NHTs
n-C5H11
3b'
f1 (ppm)

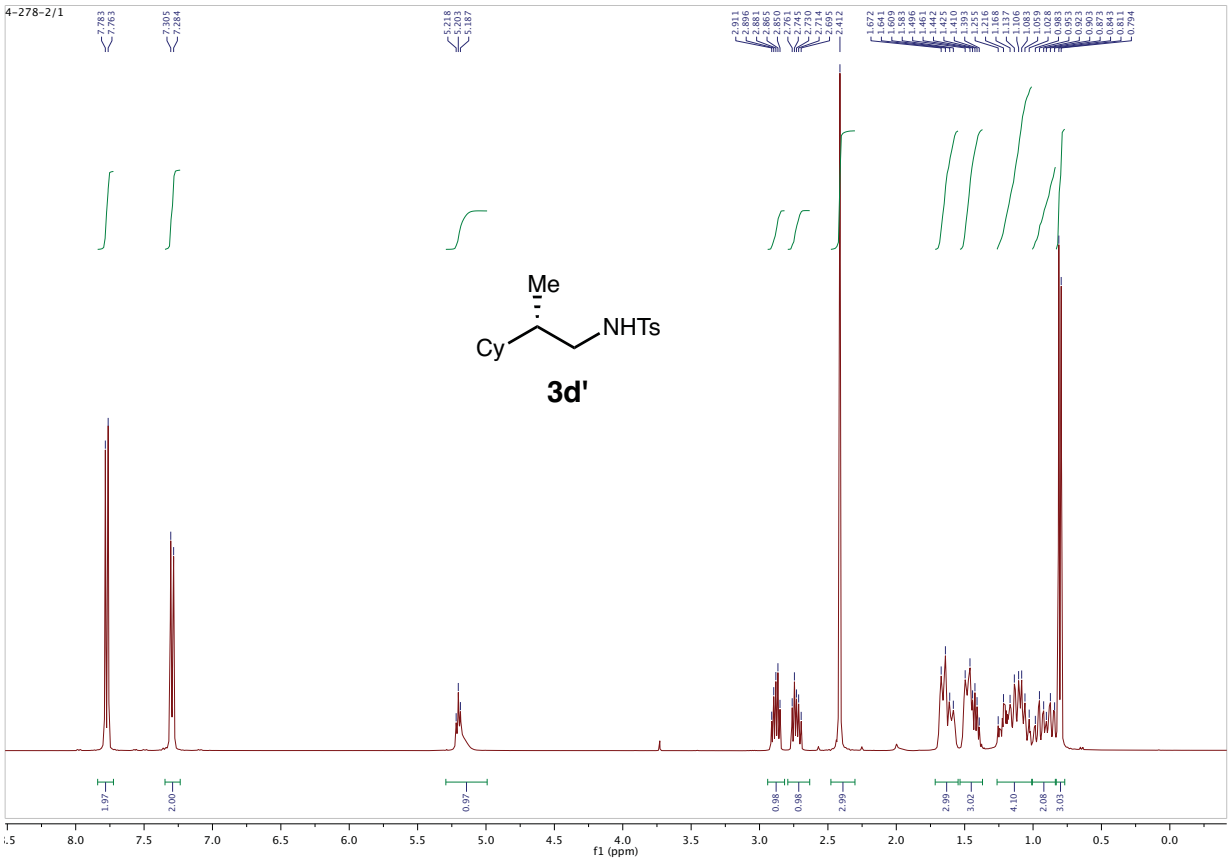

4-236r_C/1
Me
NHTs
n-C5H11
3b'
f1 (ppm)

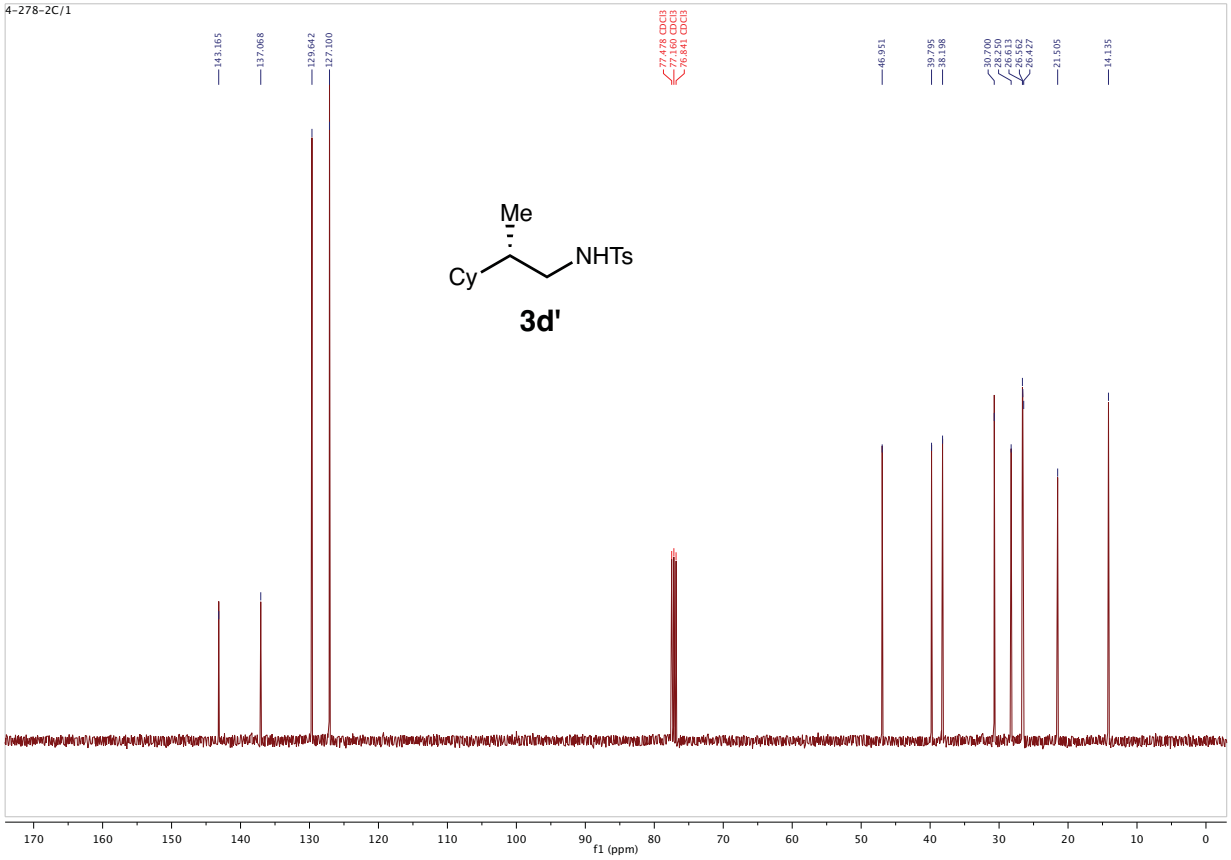

7.438
7.421
7.418
7.380
7.362
7.343
7.284
7.231
7.213
7.128
7.112
3.638
3.604
3.597
3.563
2.990
2.979
2.958
2.946
2.402
2.383
2.370
2.352
2.310
2.293
2.279
2.262
2.178
2.155
2.145
2.122
2.097
0.884
0.848
Me
Bn
NBn2
3c
f1 (ppm)

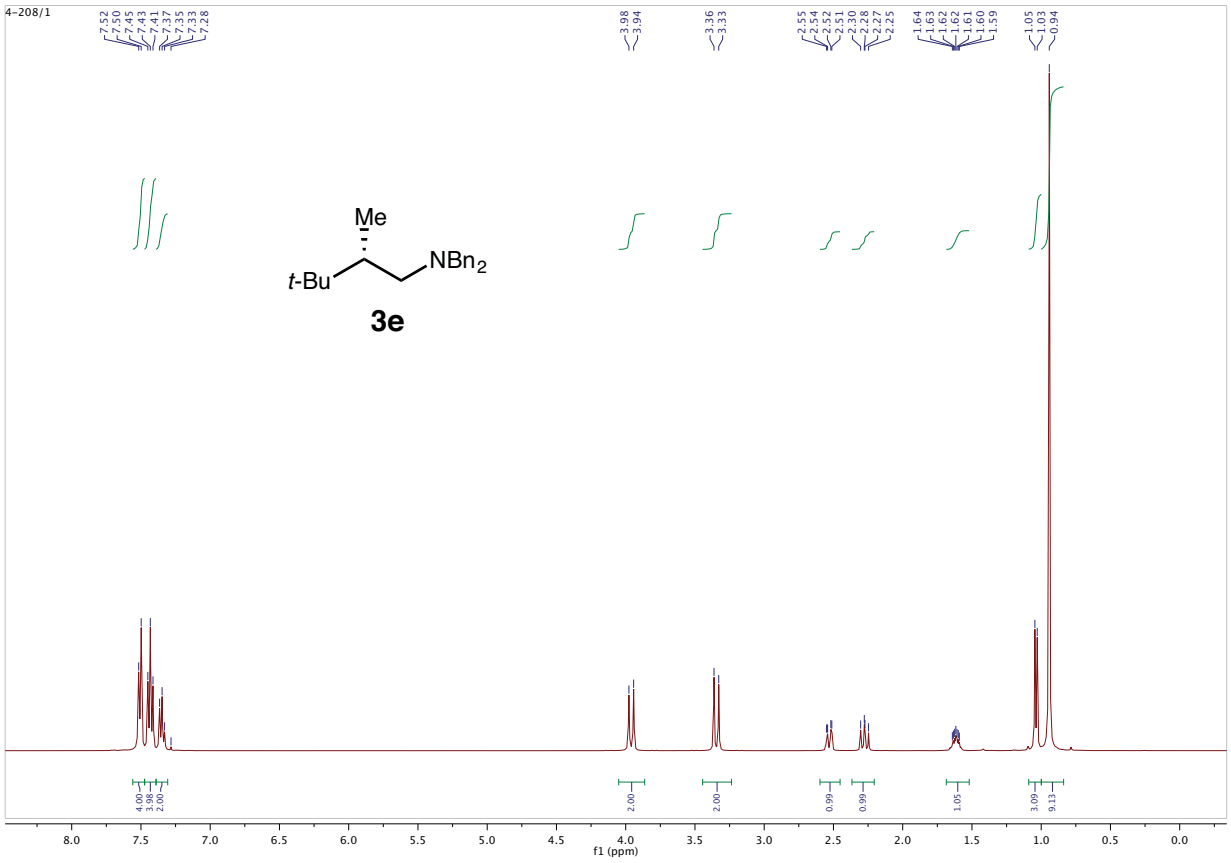

141.635
139.964
129.258
129.036
128.277
128.222
126.910
125.703
77.477 CDCl3
77.159 CDCl3
76.842 CDCl3
60.722
59.079
41.503
33.677
18.093
Me
Bn
NBn2
3c
f1 (ppm)

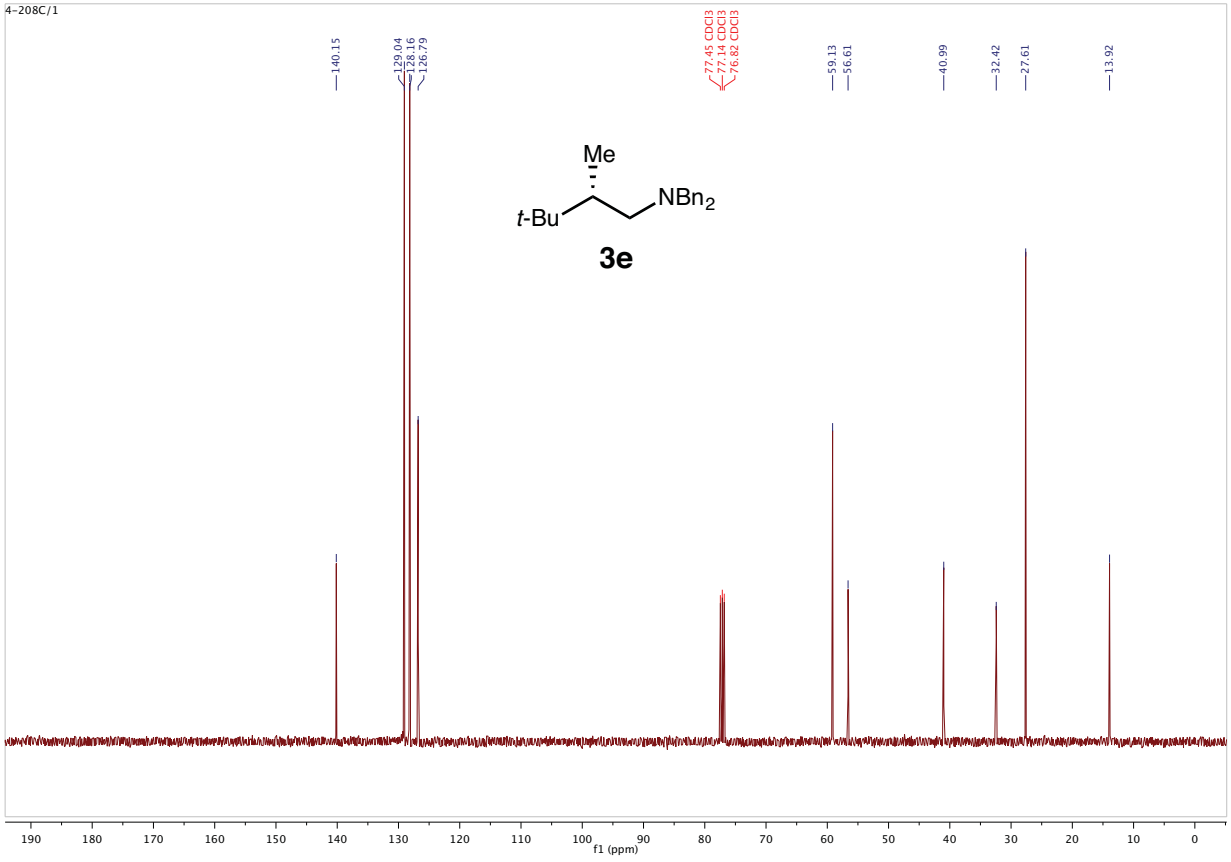

4-278/1
Me
Cy
NBn2
3d
f1 (ppm)

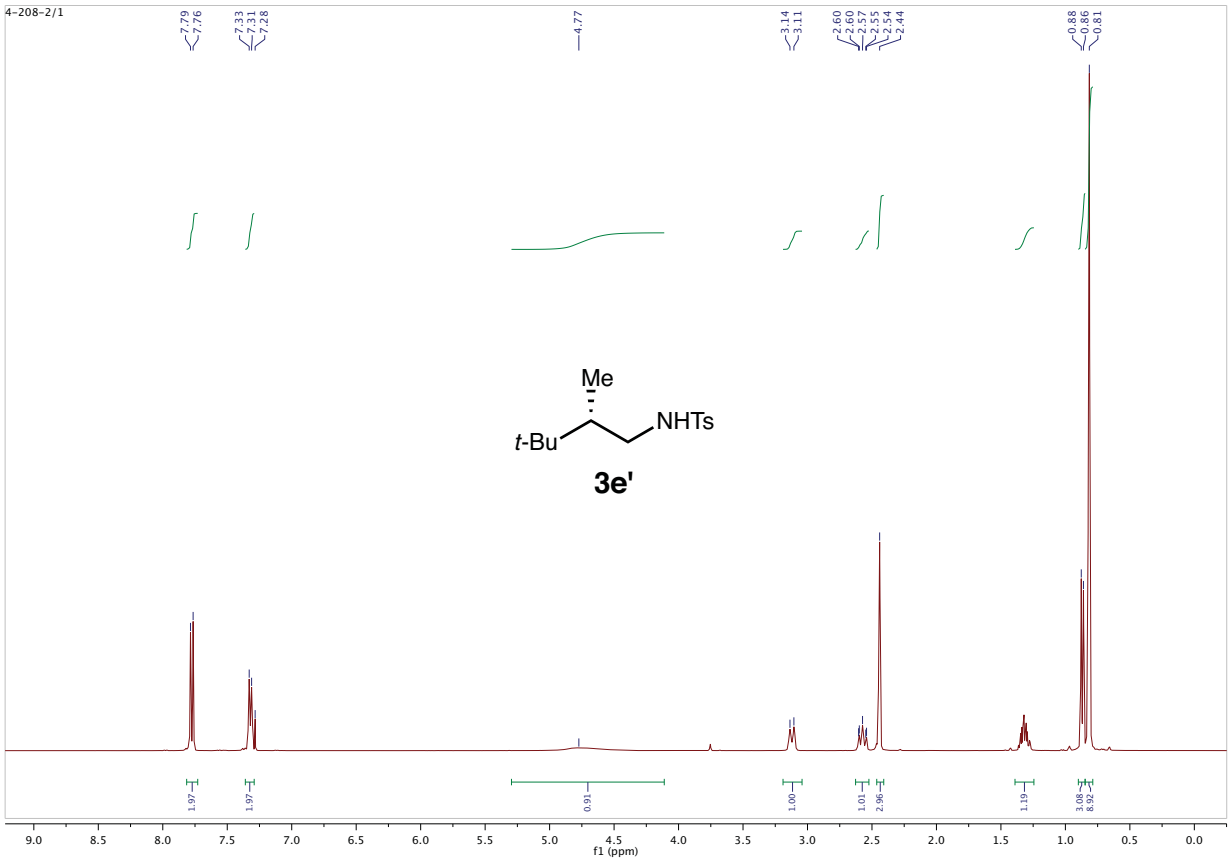

4-278C/1
Me
Cy
NBn2
3d
f1 (ppm)

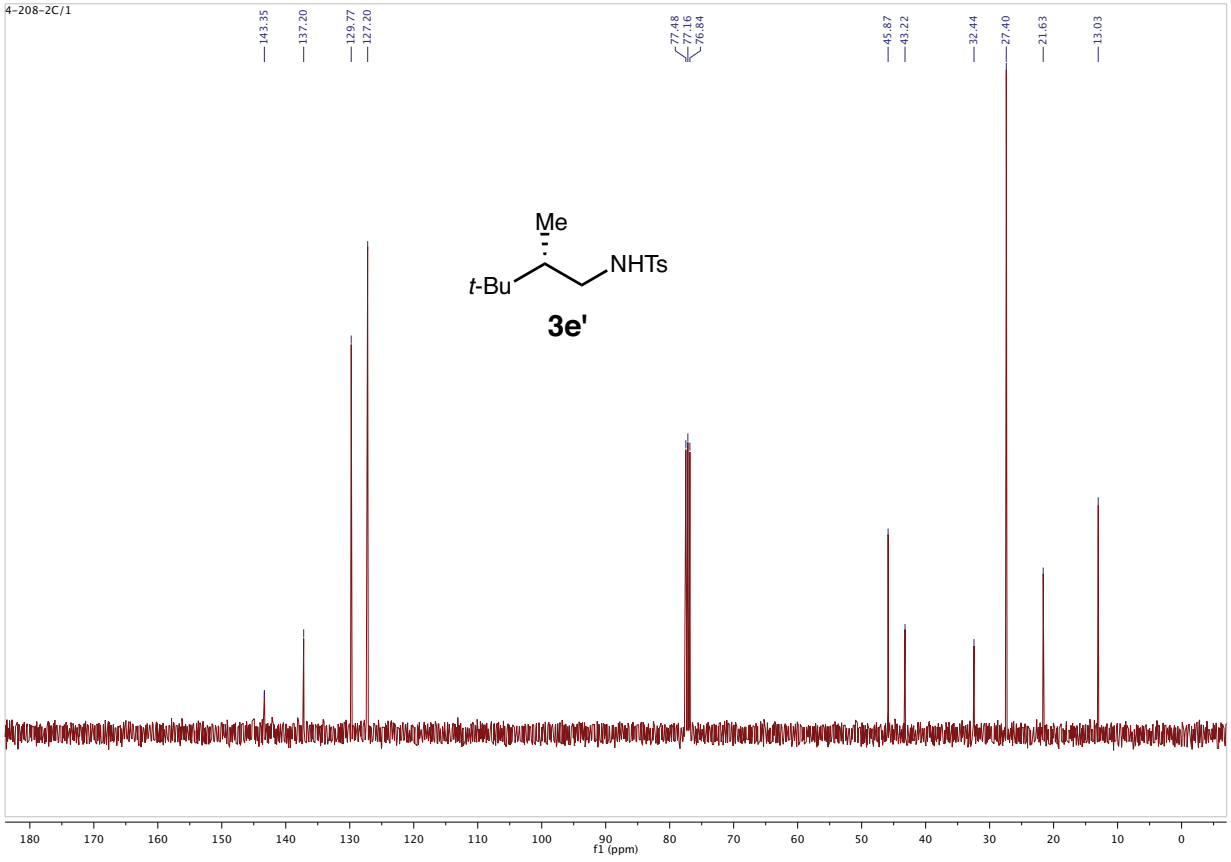

4-278-2/1
Me
Cy
NHTs
3d'
f1 (ppm)

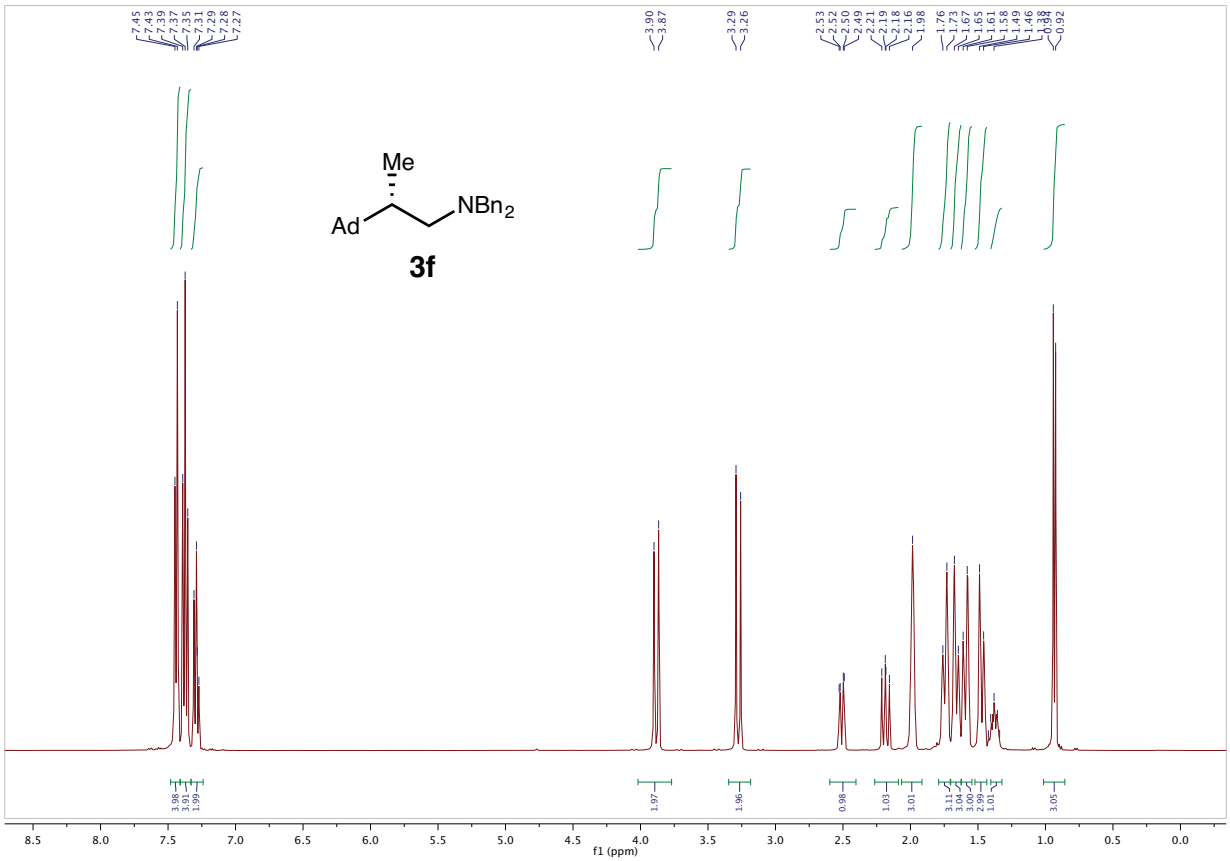

4-278-2C/1
Me
Cy
NHTs
3d'
f1 (ppm)

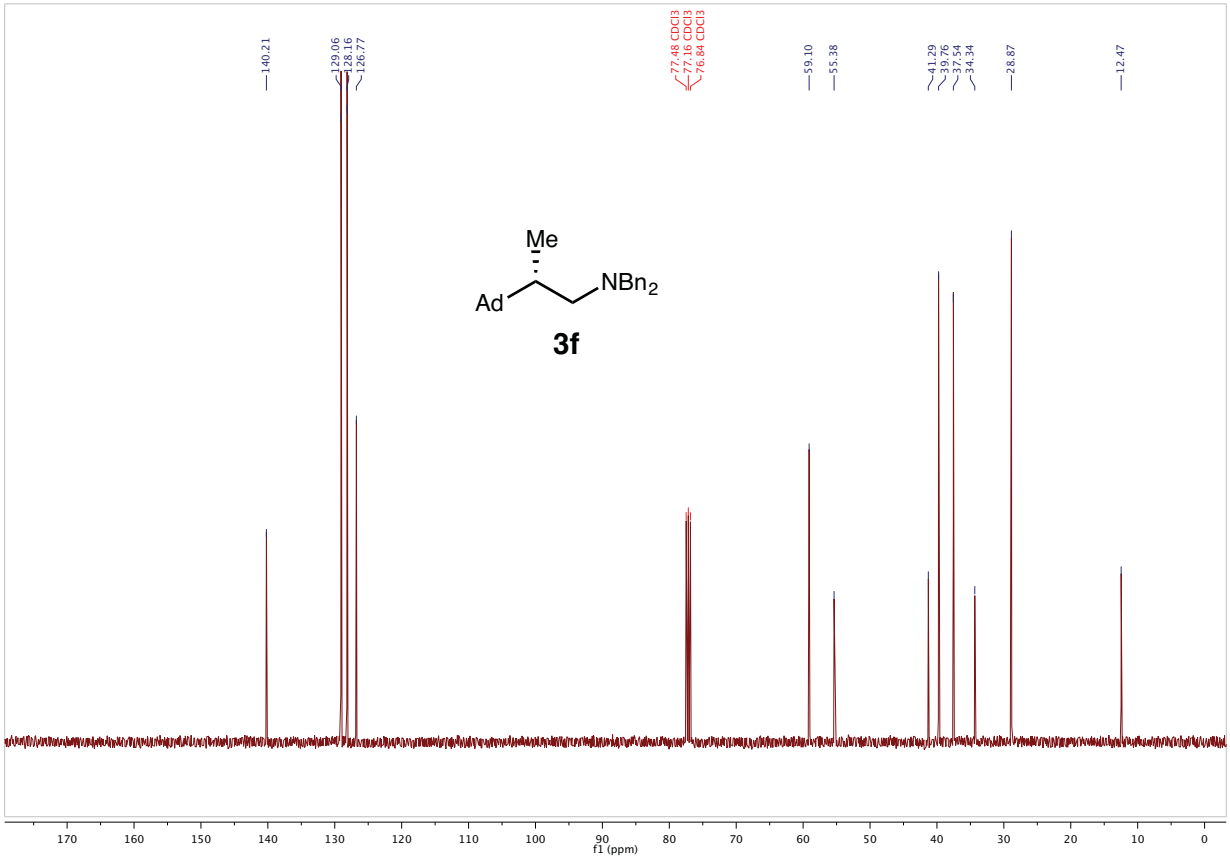

4-208/1
Me
t-Bu
NBn2
3e
f1 (ppm)

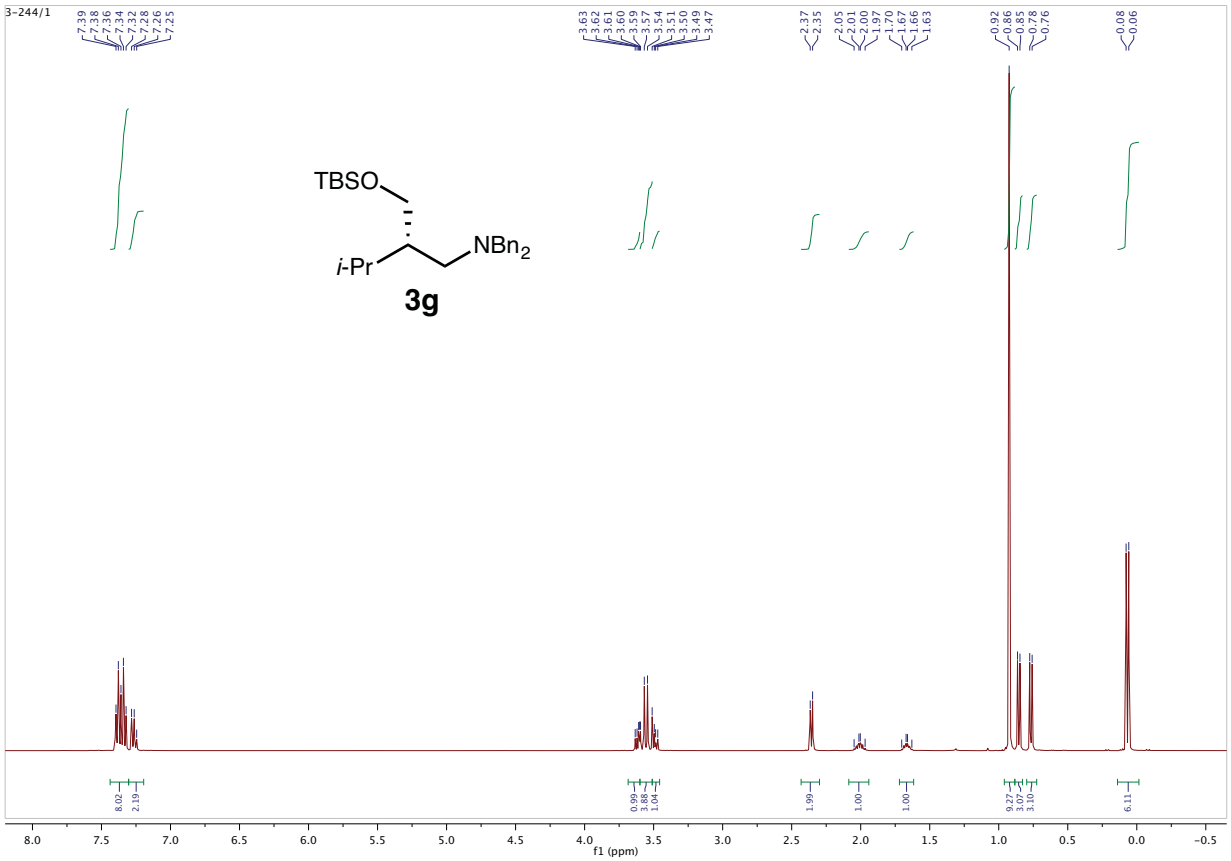

4-208C/1
Me
t-Bu
NBn2
3e
f1 (ppm)

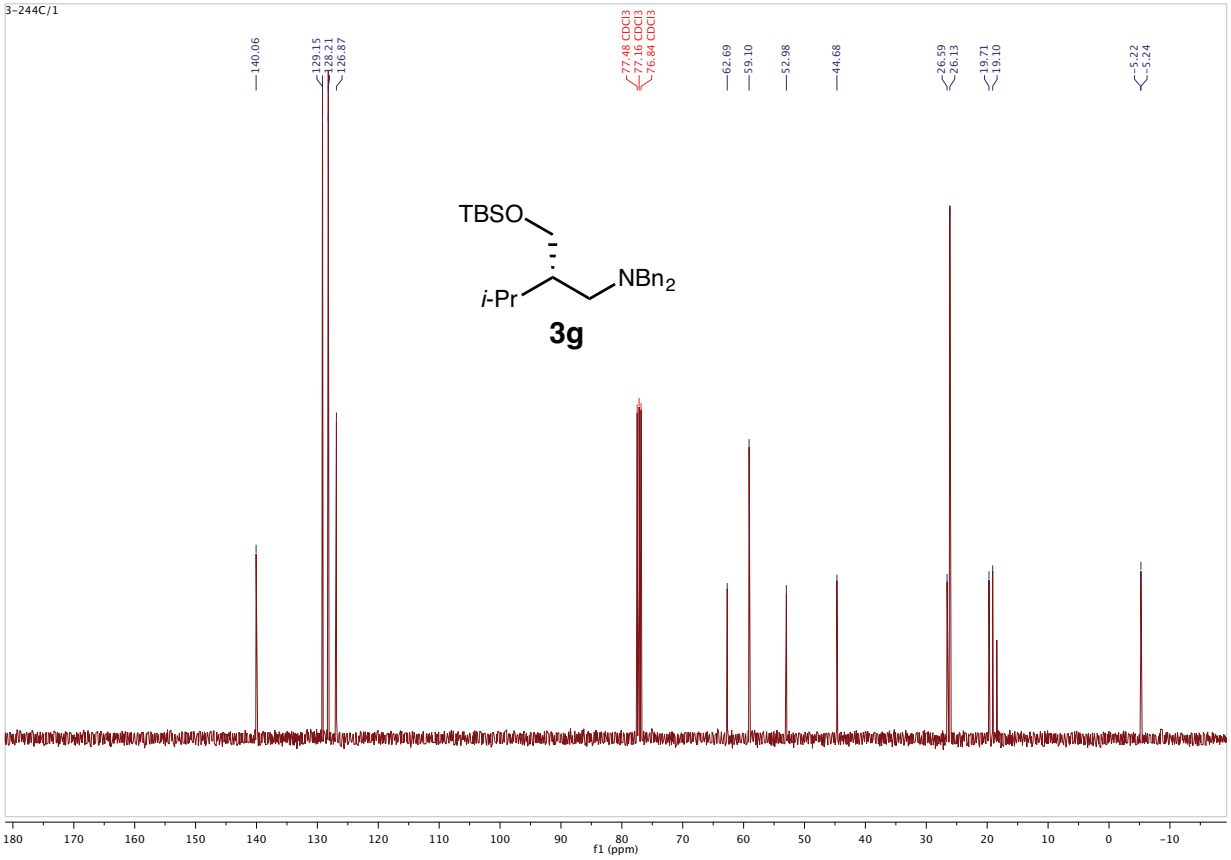

4-208-2/1
7.79
7.76
7.33
7.31
7.28
4.77
3.14
3.11
2.60
2.60
2.57
2.55
2.54
2.44
0.88
0.86
0.81
Me
t-Bu
NHTs
3e'
1.97
1.97
0.91
1.00
1.01
2.96
1.19
3.08
8.92
f1 (ppm)

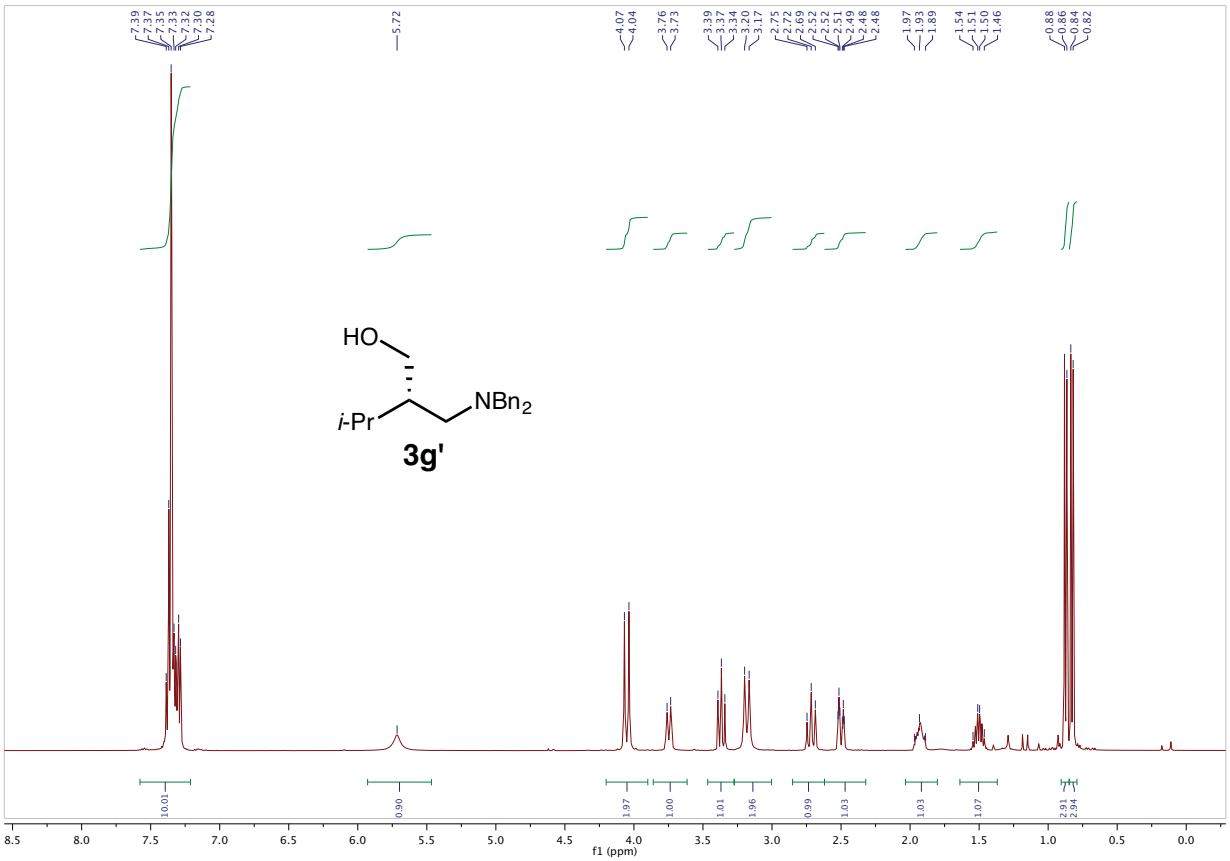

4-208-2C/1
143.35
137.20
129.77
127.20
77.48
77.16
76.84
45.87
43.22
32.44
27.40
21.63
13.03
Me
t-Bu
NHTs
3e'
f1 (ppm)

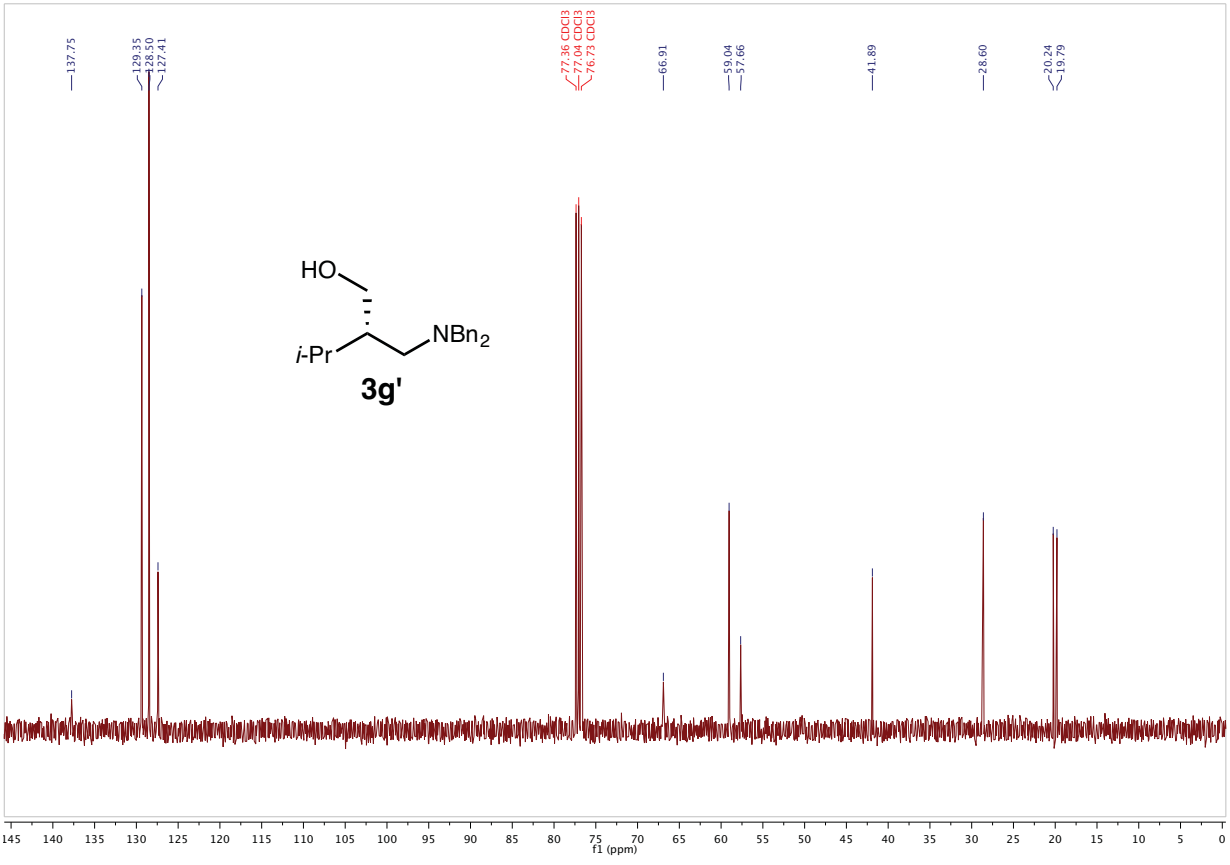

Me
Ad
NBn2
3f
f1 (ppm)

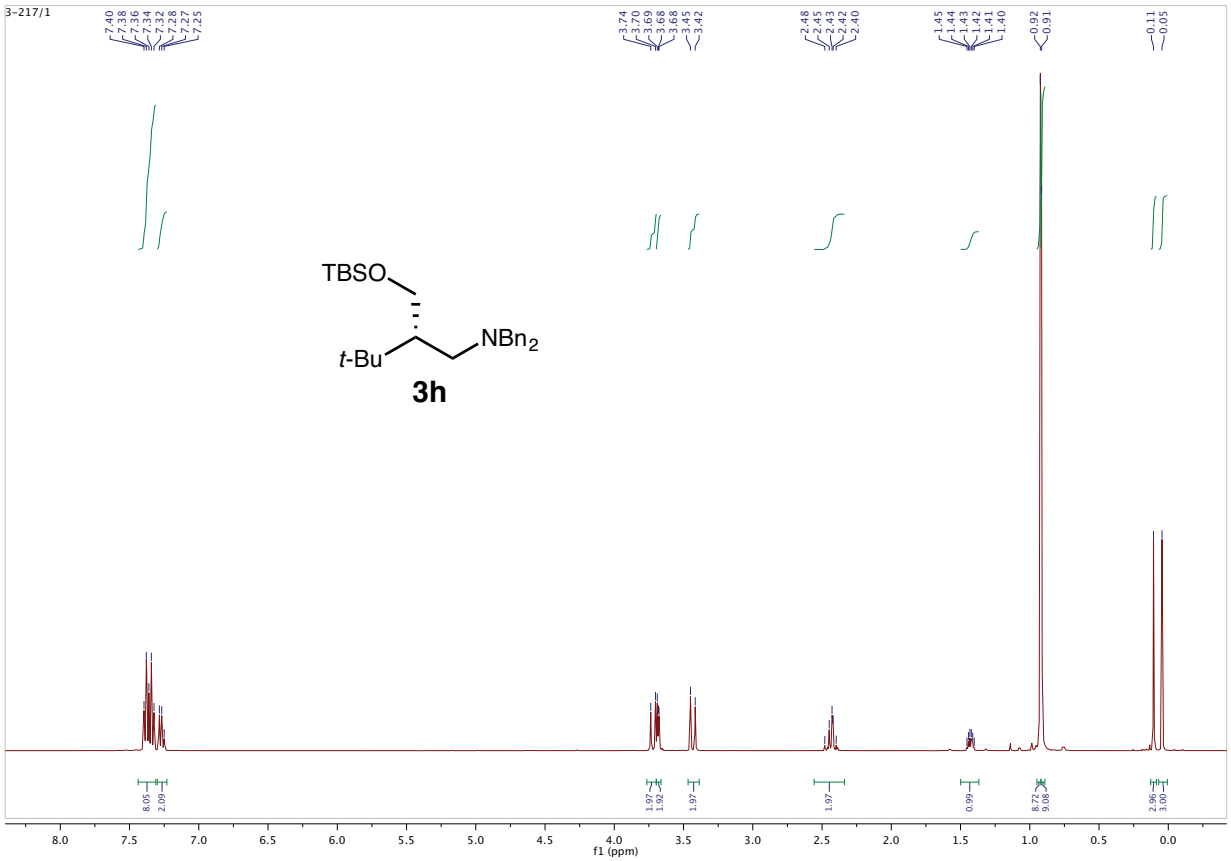

Me
Ad
NBn2
3f
f1 (ppm)

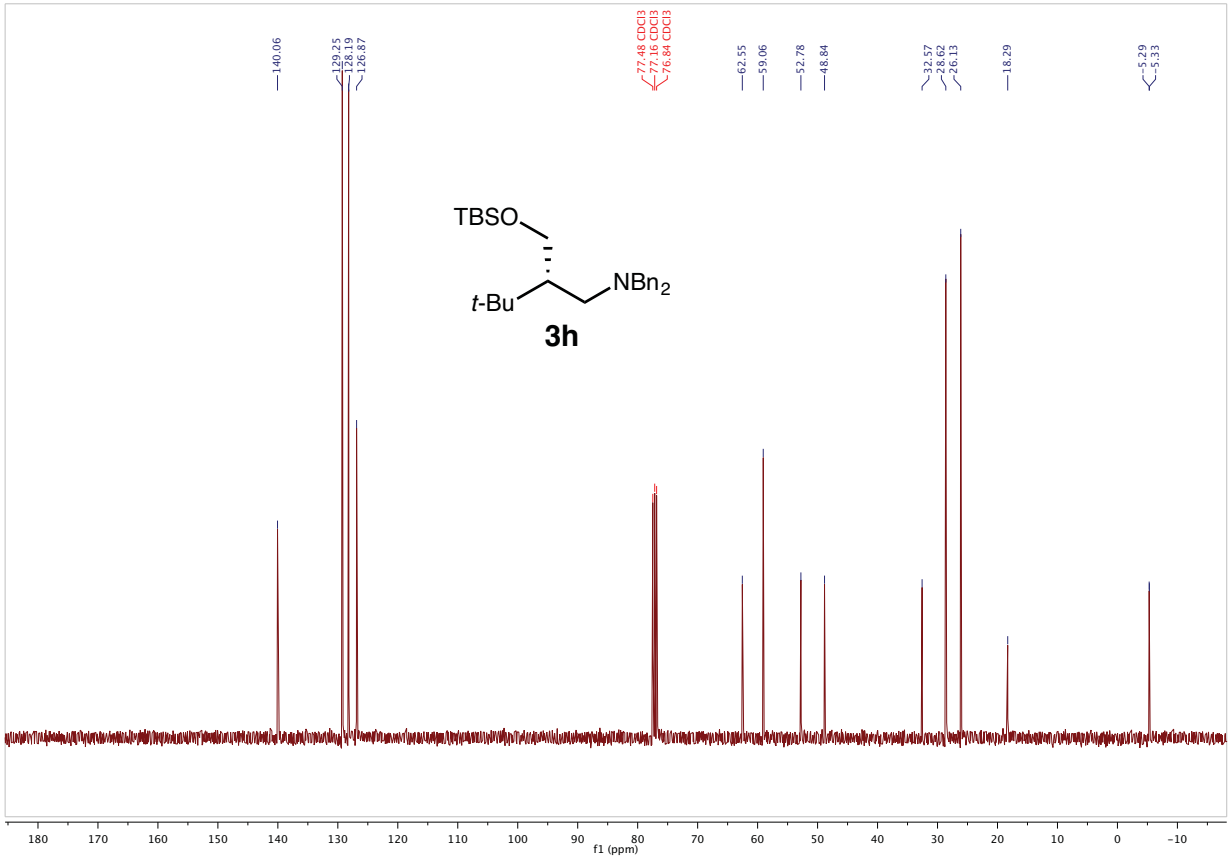

3-244/1
TBSO
NBn2
i-Pr
3g
f1 (ppm)

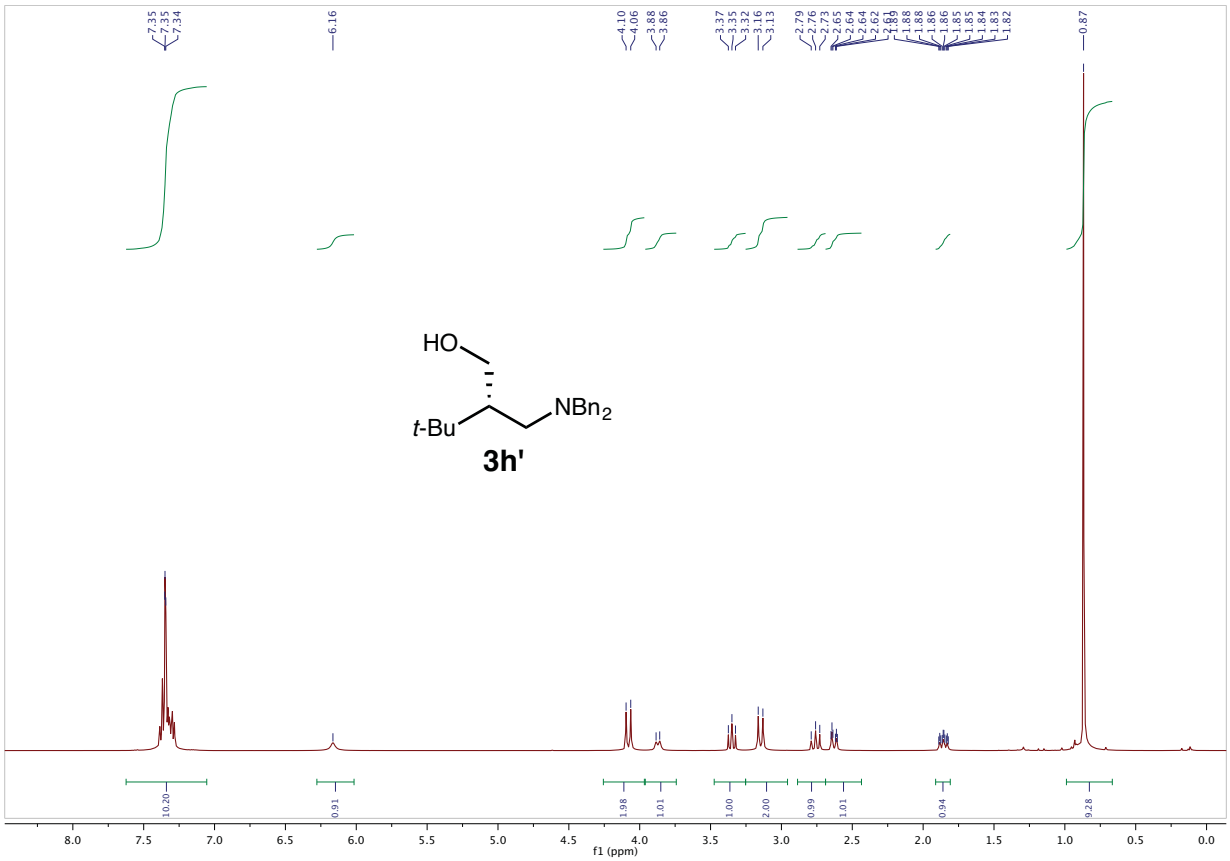

3-244C/1
TBSO
NBn2
i-Pr
3g
f1 (ppm)

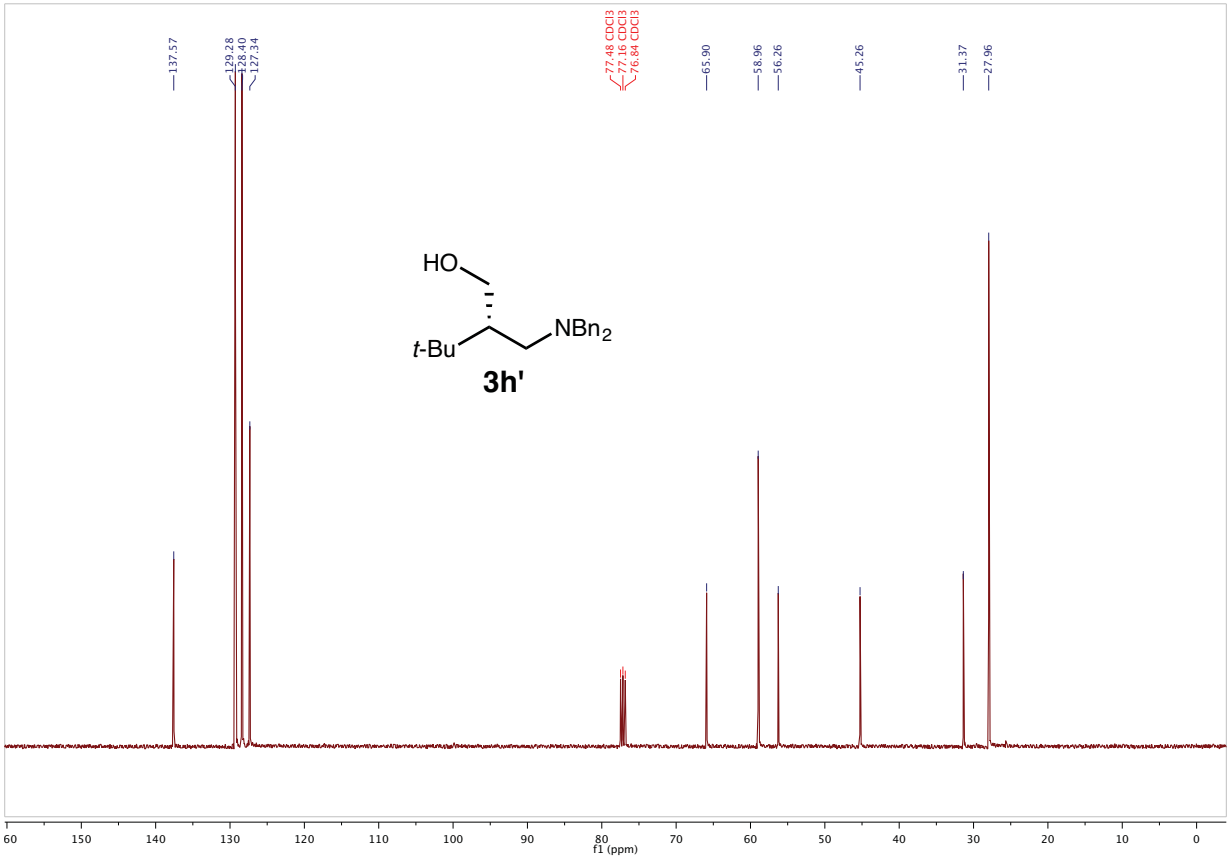

HO
i-Pr
NBn2
3g'
f1 (ppm)

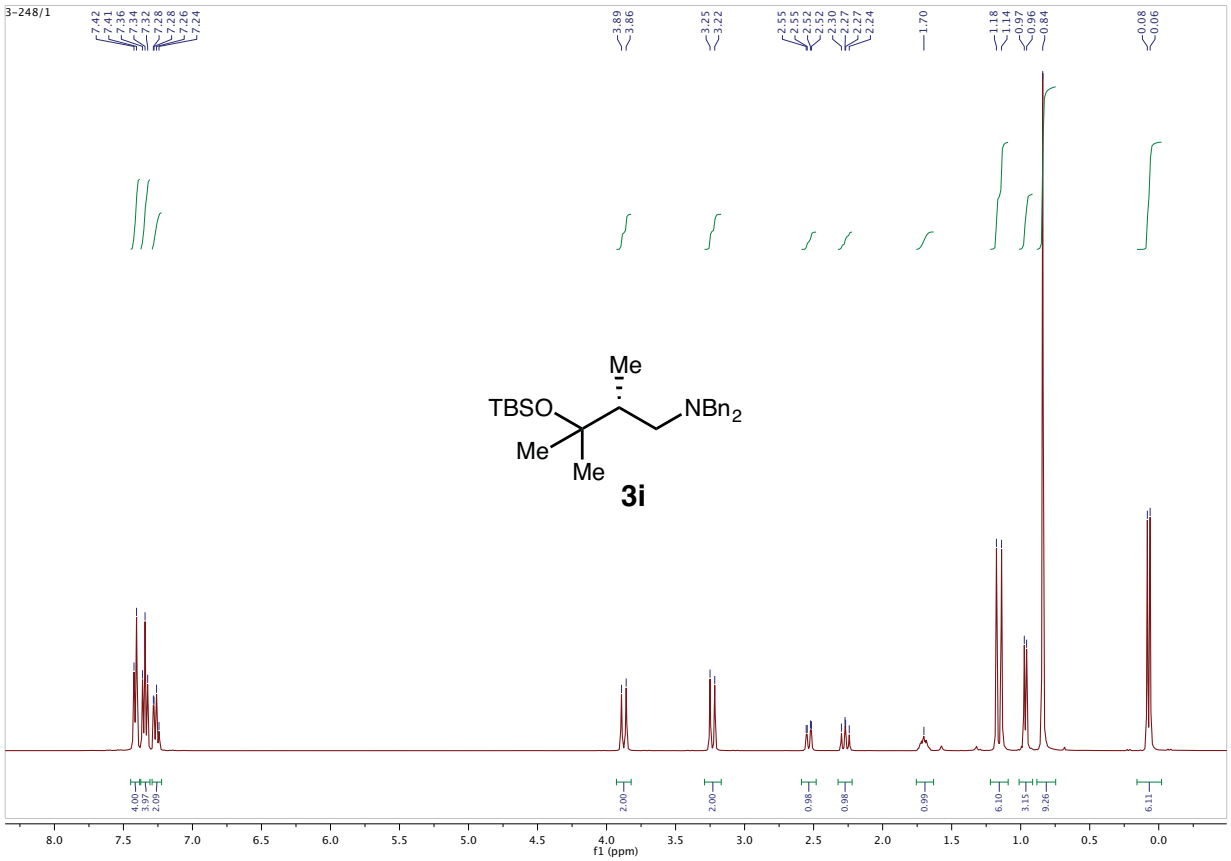

HO
i-Pr
NBn2
3g'
f1 (ppm)

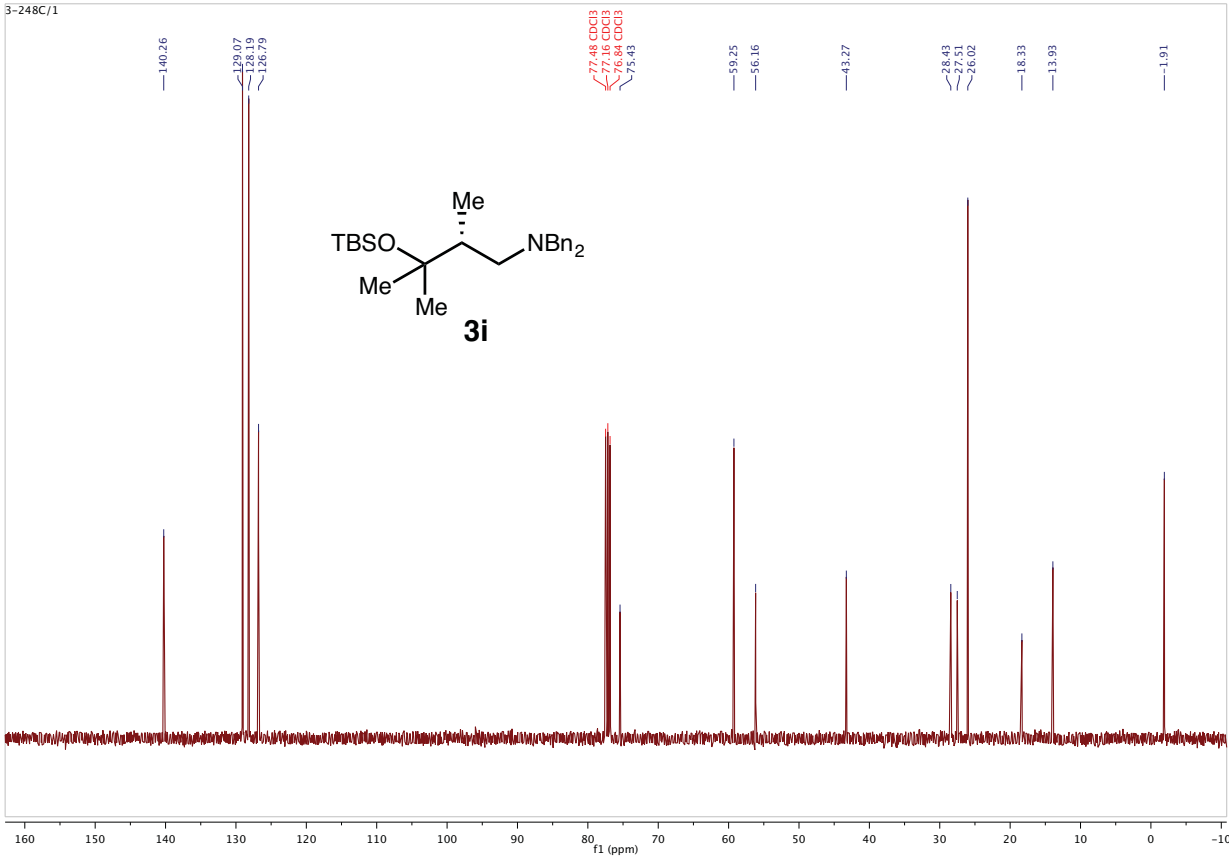

3-217/1
TBSO
NBn2
t-Bu
3h
f1 (ppm)

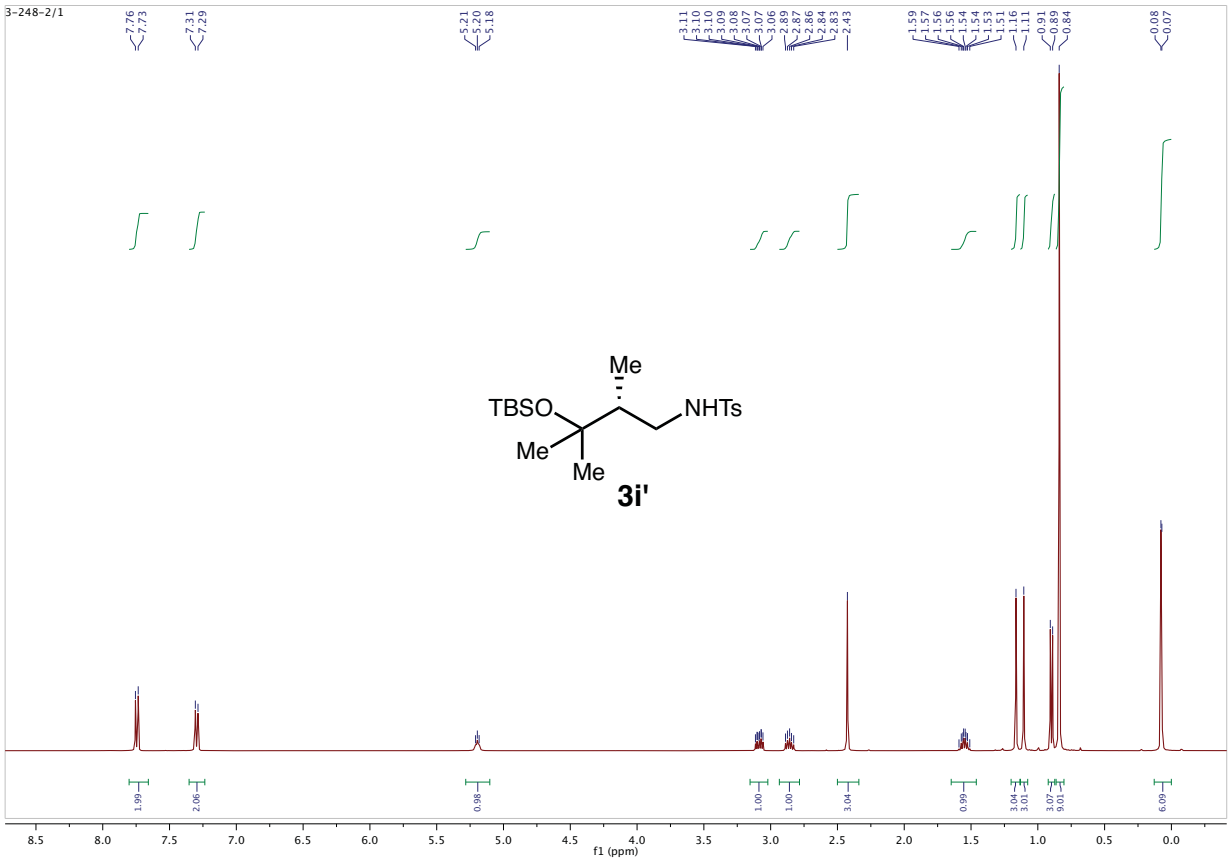

TBSO
NBn2
t-Bu
3h
f1 (ppm)

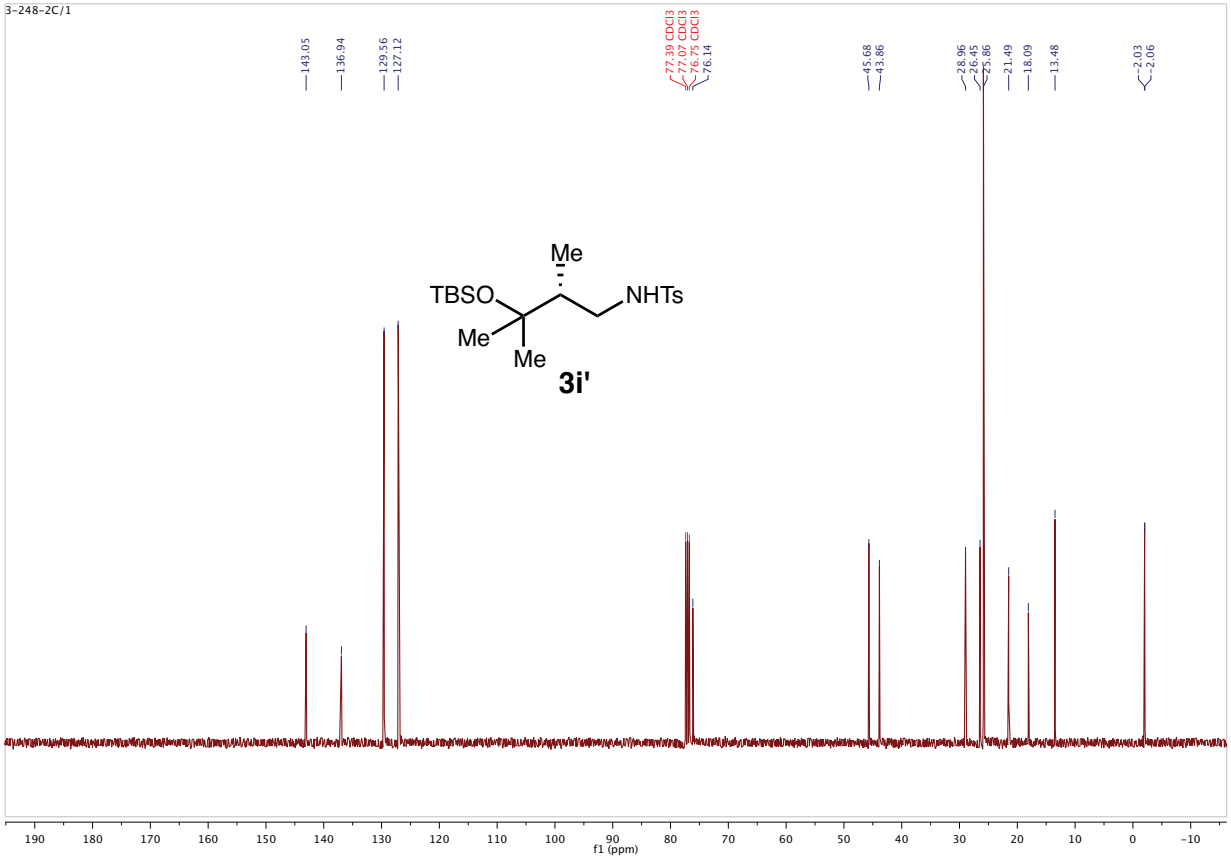

HO
t-Bu
NBn2
3h'
f1 (ppm)

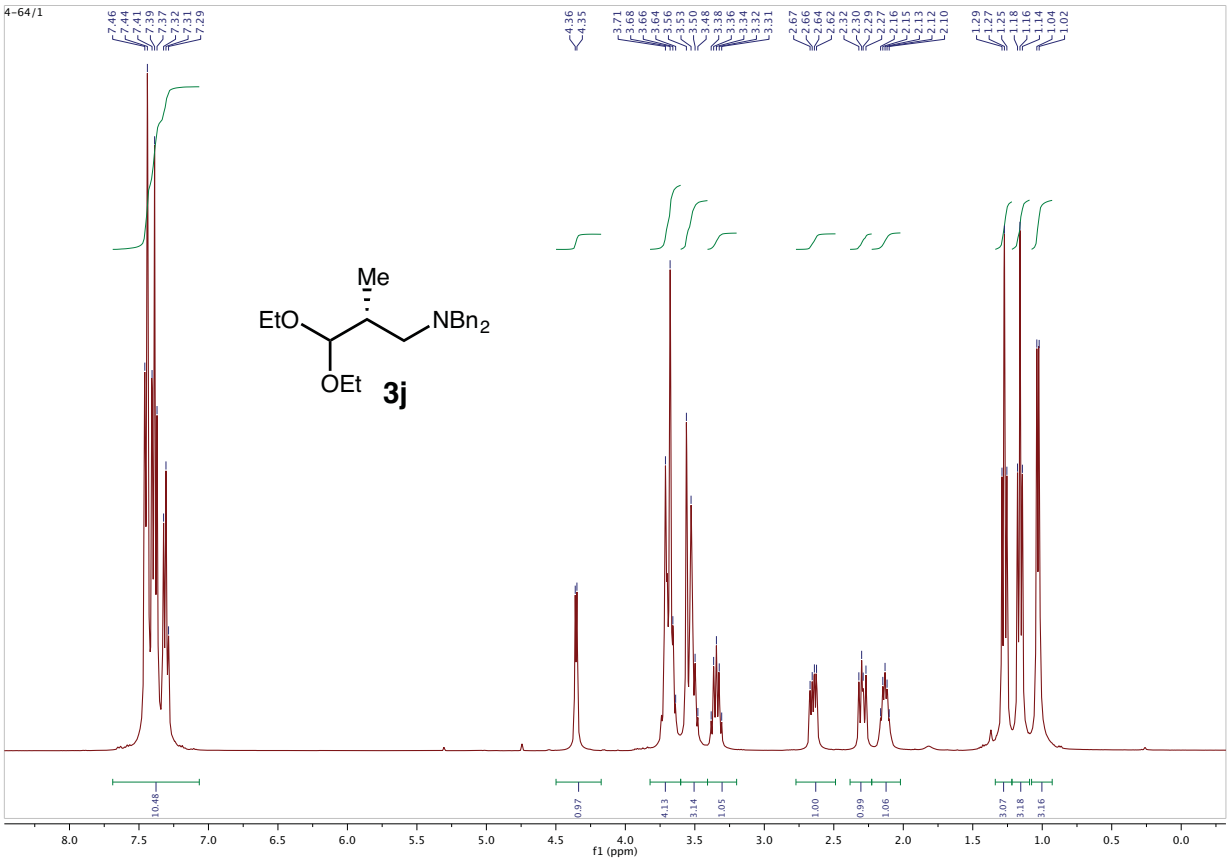

HO
t-Bu
NBn2
3h'
f1 (ppm)

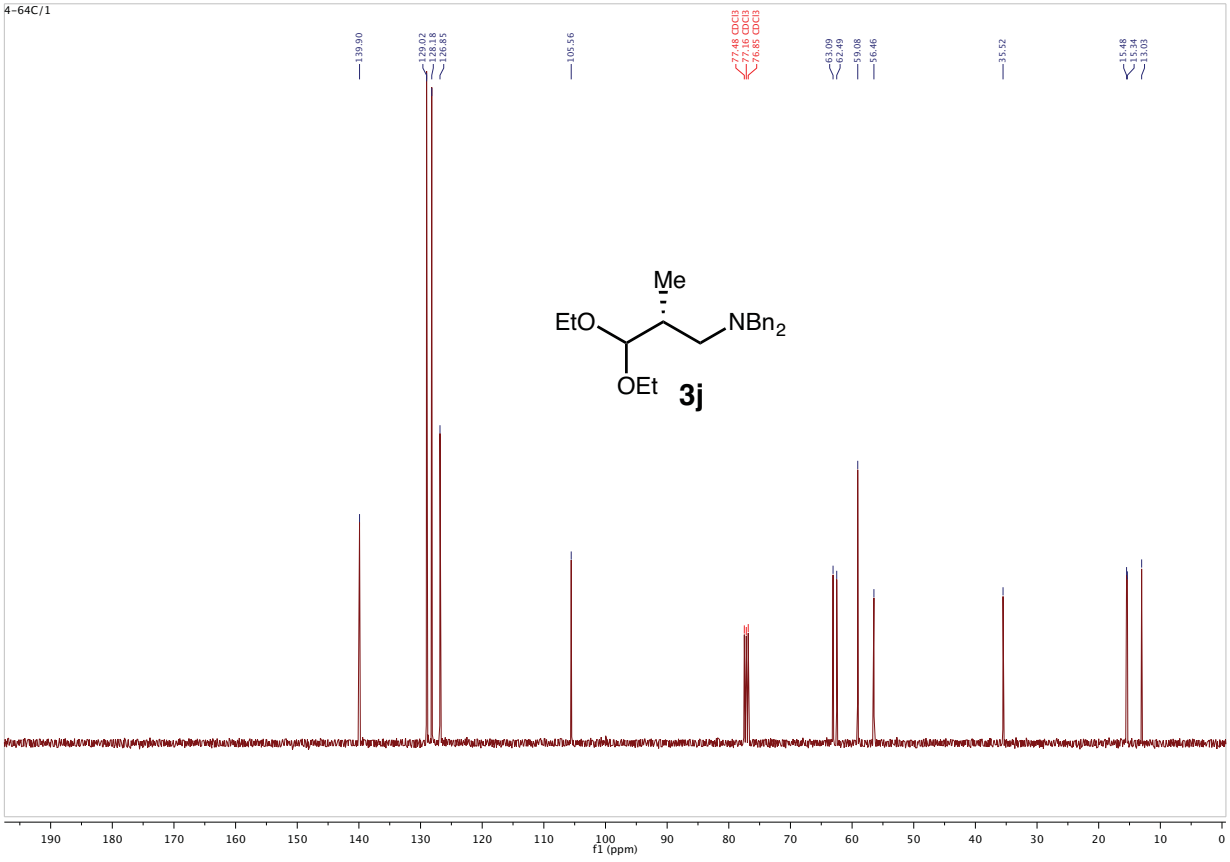

3-248/1
7.42
7.41
7.36
7.34
7.32
7.28
7.26
7.24
3.89
3.86
3.25
3.22
2.55
2.55
2.52
2.52
2.30
2.27
2.27
2.24
1.70
1.18
1.14
0.97
0.96
0.84
0.08
0.06
Me
TBSO
NBn2
Me
Me
3i
4.00
3.97
2.09
2.00
2.00
0.98
0.98
0.99
6.10
3.15
9.26
6.11
f1 (ppm)

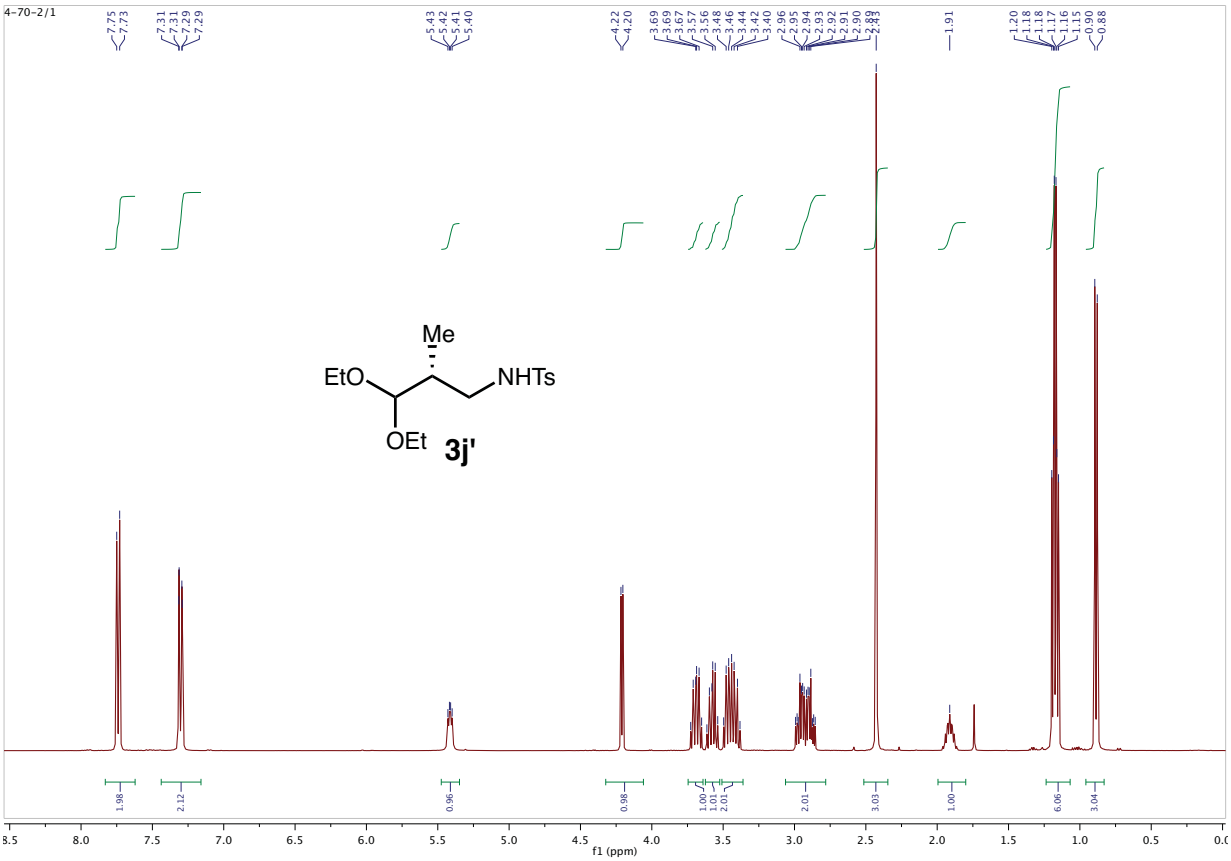

3-248C/1
140.26
129.07
128.19
126.79
77.48 CDCl3
77.16 CDCl3
76.84 CDCl3
75.43
59.25
56.16
43.27
28.43
27.51
26.02
18.33
13.93
-1.91
Me
TBSO
NBn2
Me
Me
3i
f1 (ppm)

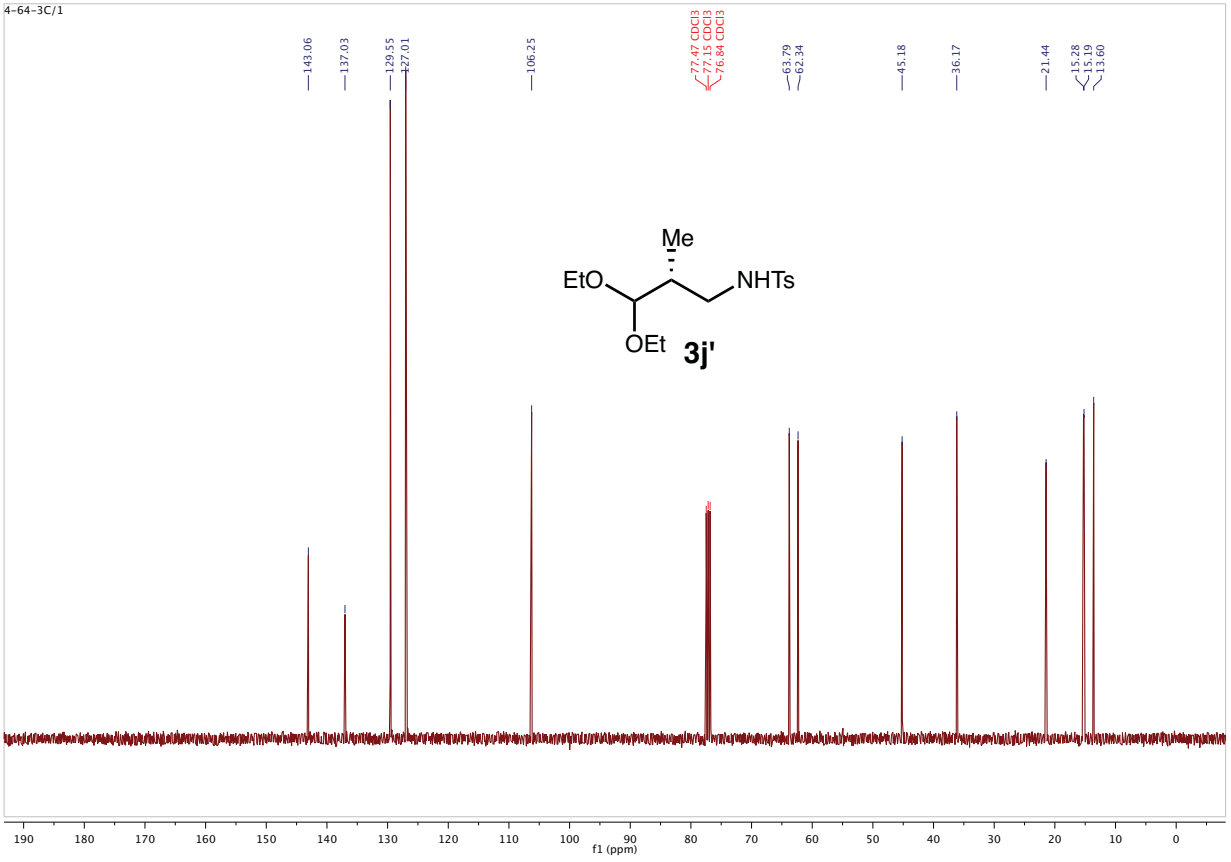

3-248-2/1
Me
TBSO
NHTs
Me
Me
3i'
f1 (ppm)

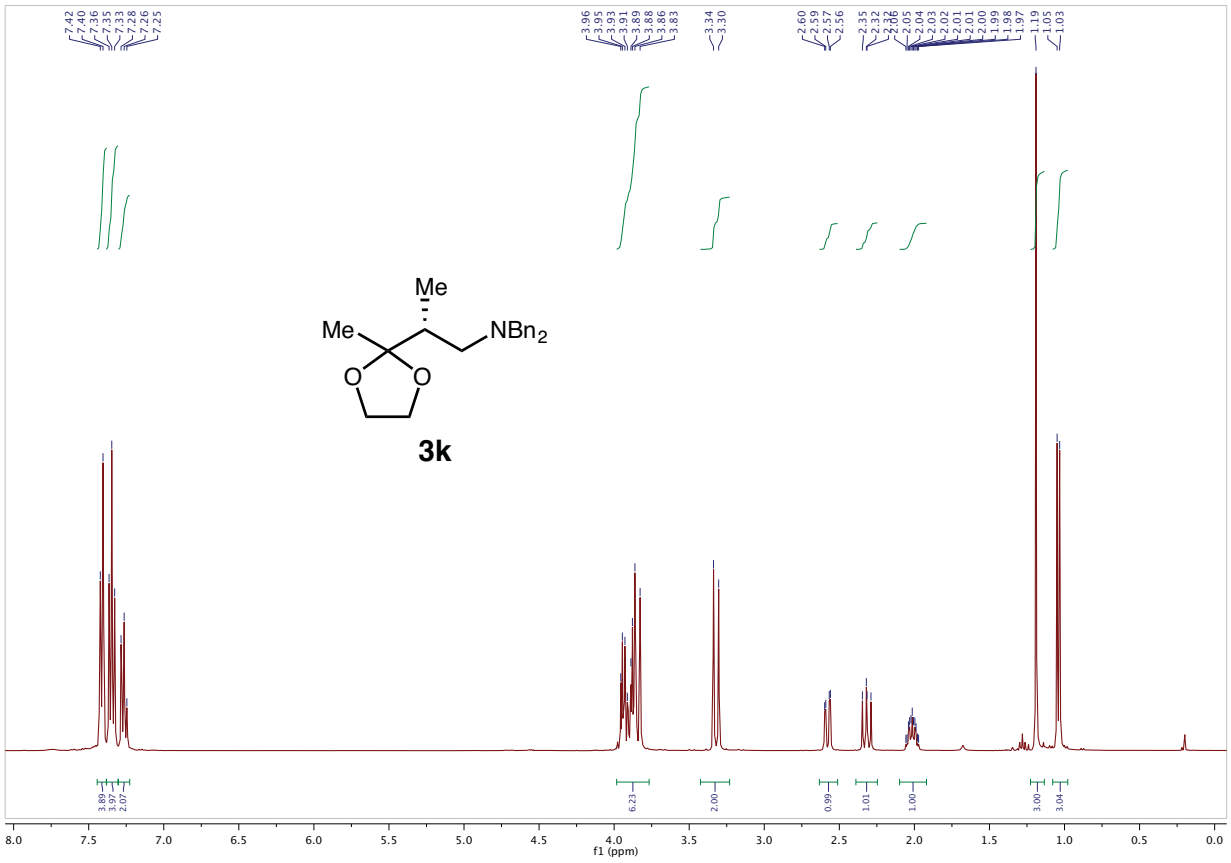

3-248-2C/1
Me
TBSO
NHTs
Me
Me
3i'
f1 (ppm)

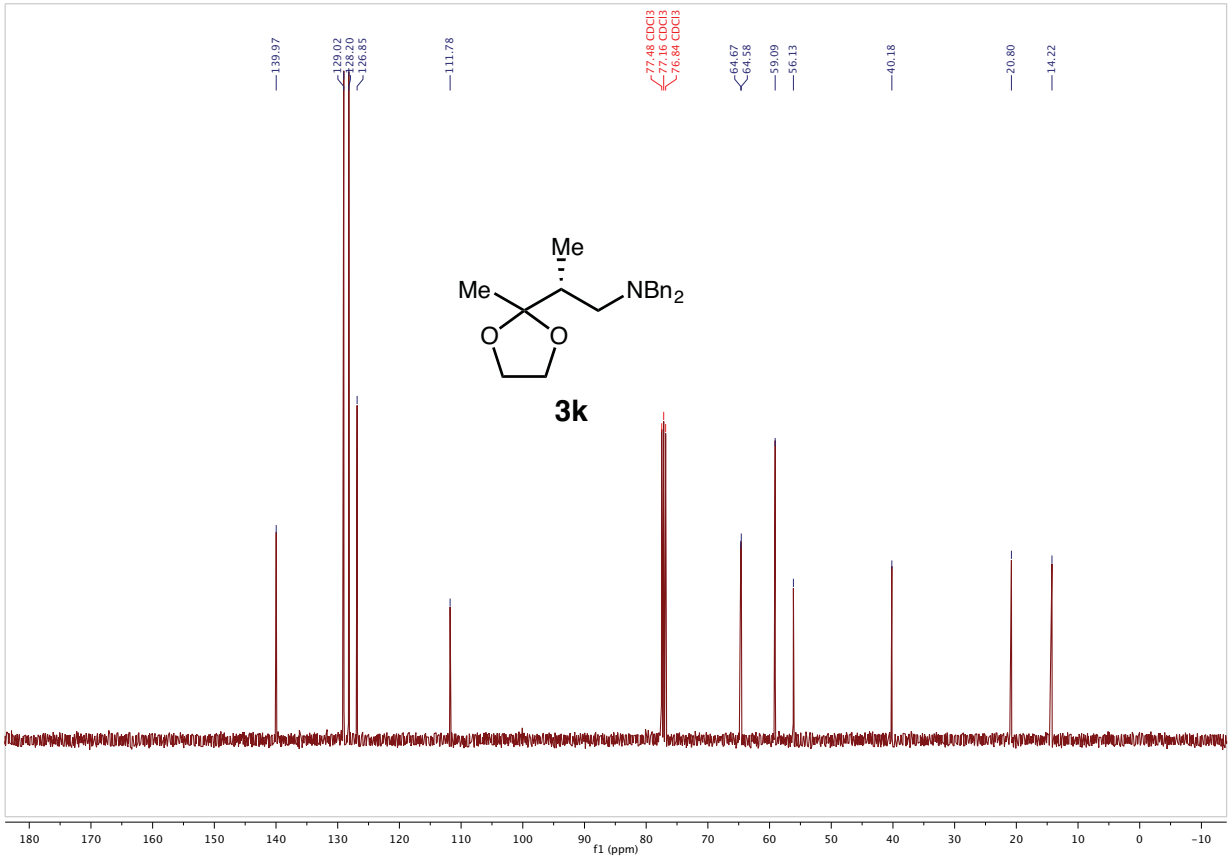

4-64/1
Me
EtO
NBn2
OEt
3j
f1 (ppm)

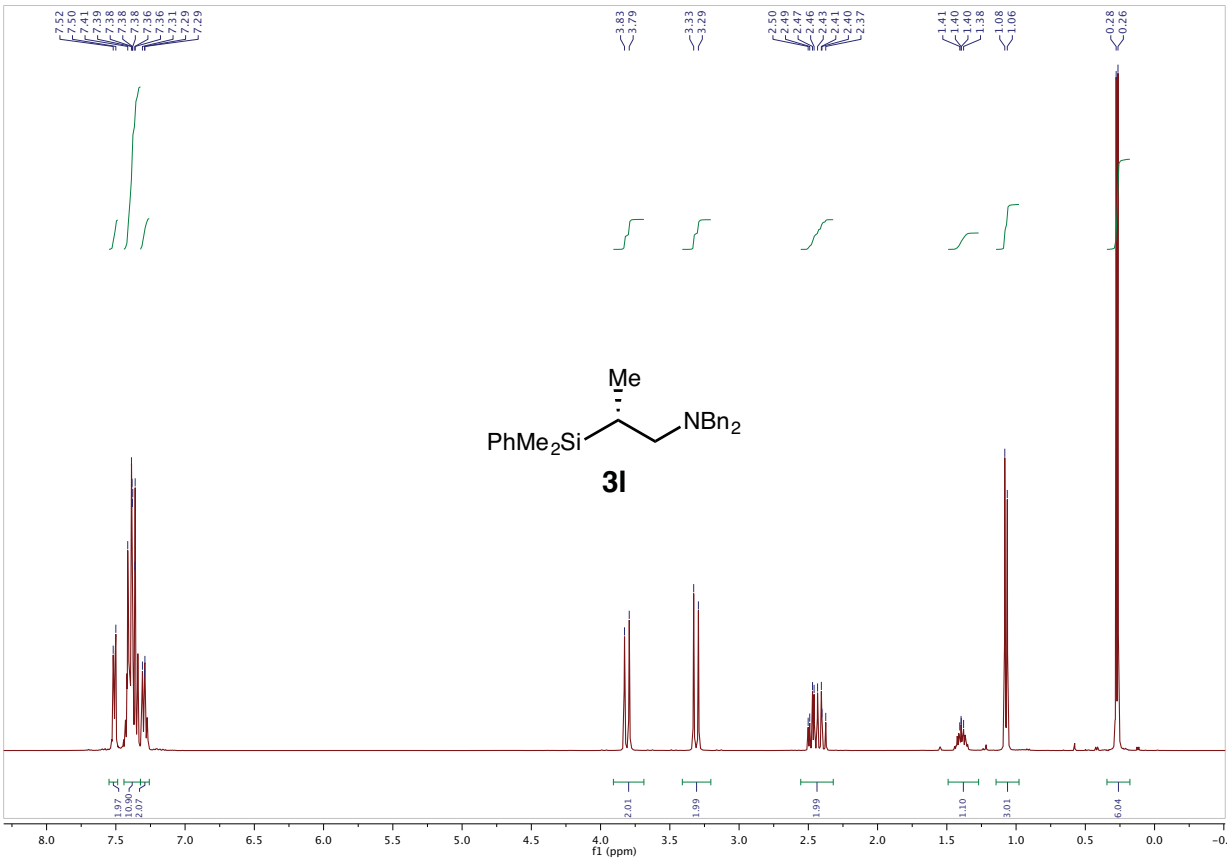

4-64C/1
Me
EtO
NBn2
OEt
3j
f1 (ppm)

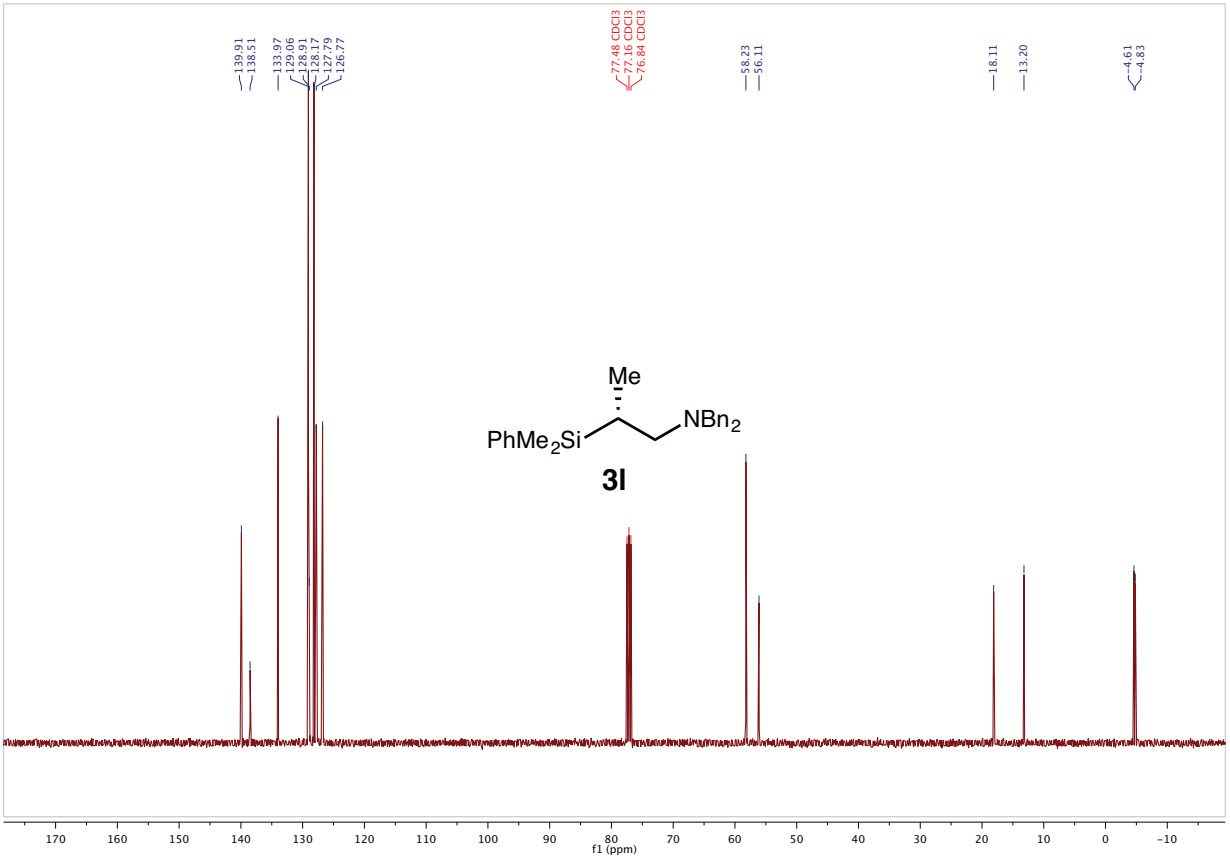

4-70-2/1
Me
EtO
NHTs
OEt
3j'
f1 (ppm)

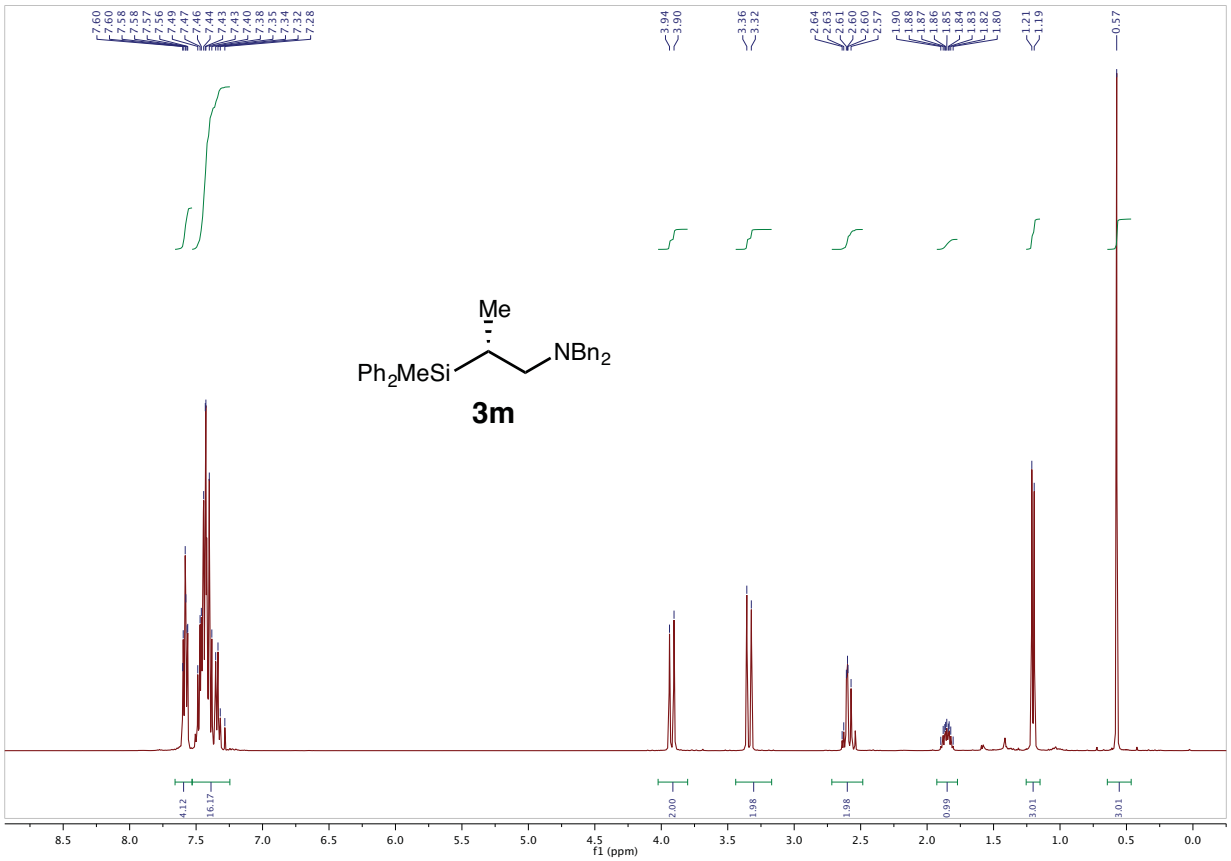

4-64-3C/1
Me
EtO
NHTs
OEt
3j'
f1 (ppm)

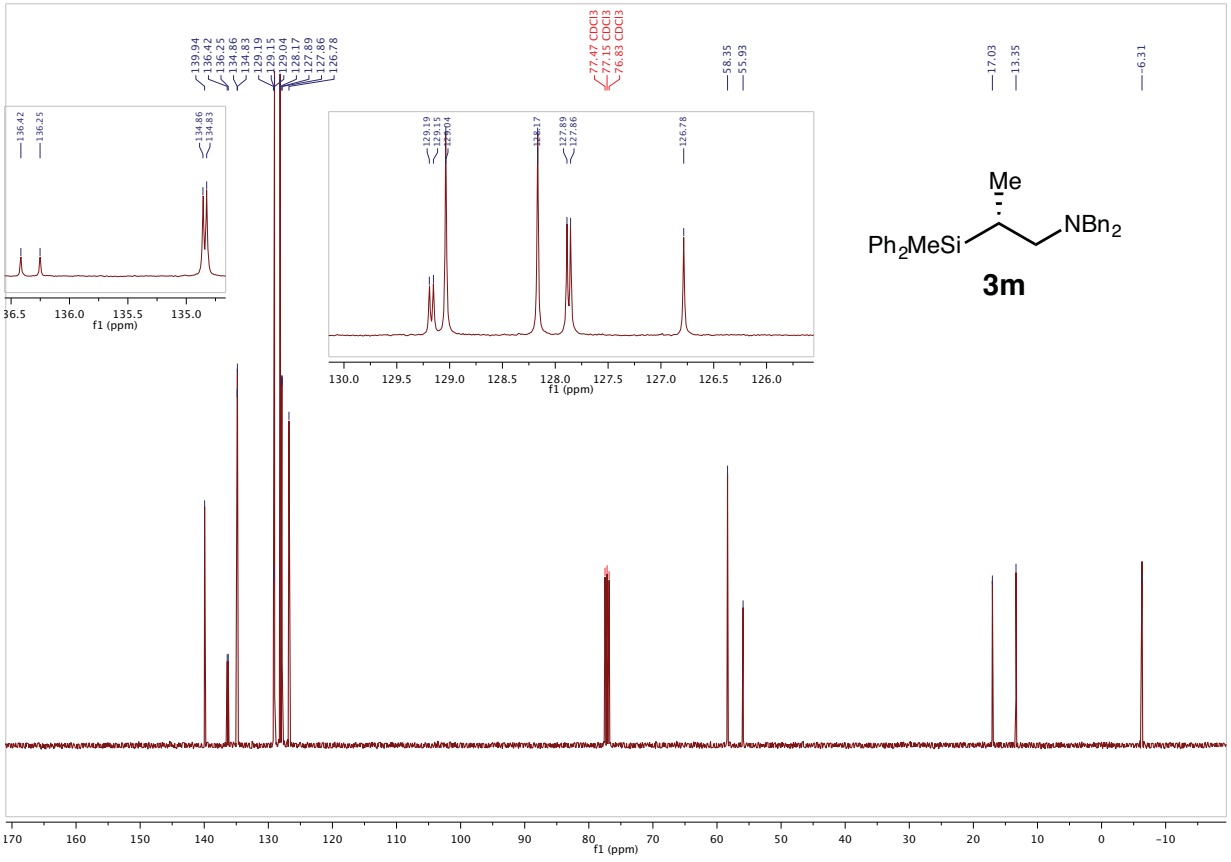

Me
Me
NBn2
O
O
3k
f1 (ppm)

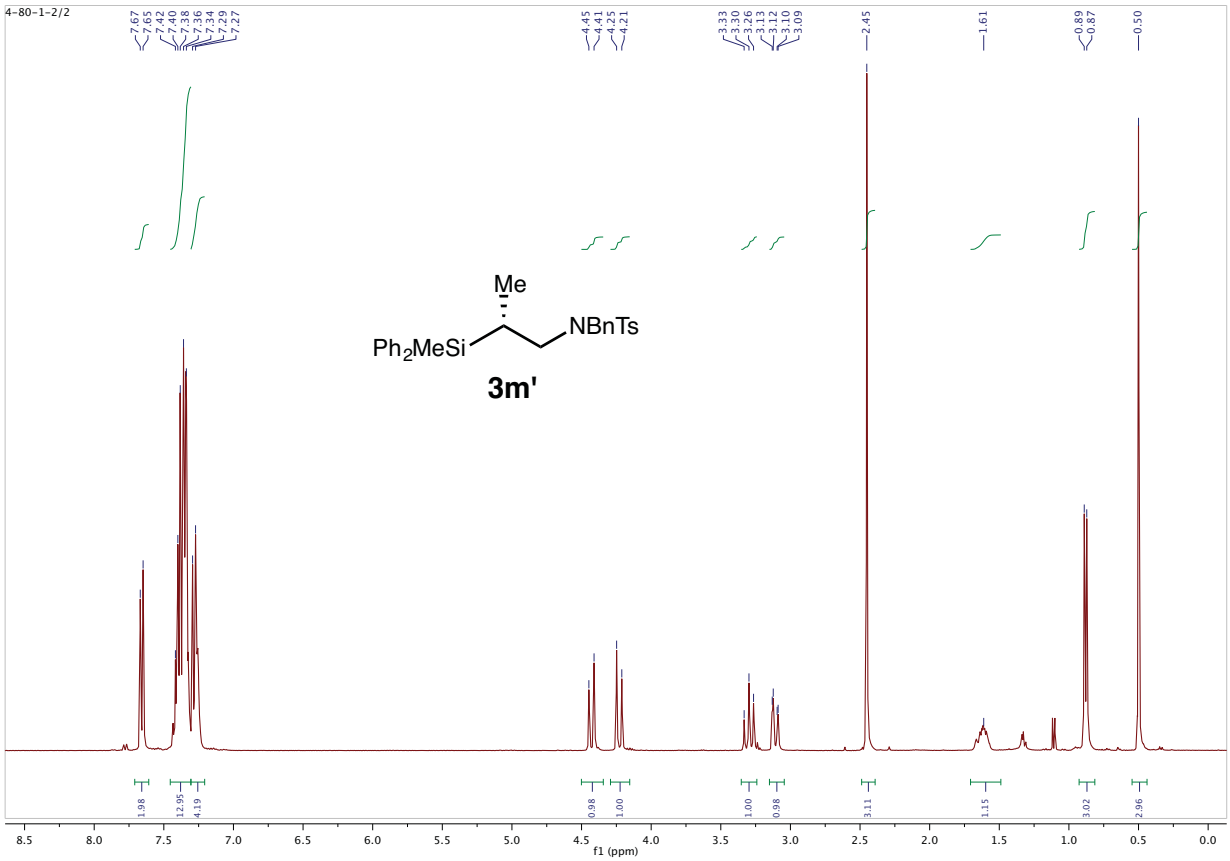

Me
Me
NBn2
O
O
3k
f1 (ppm)

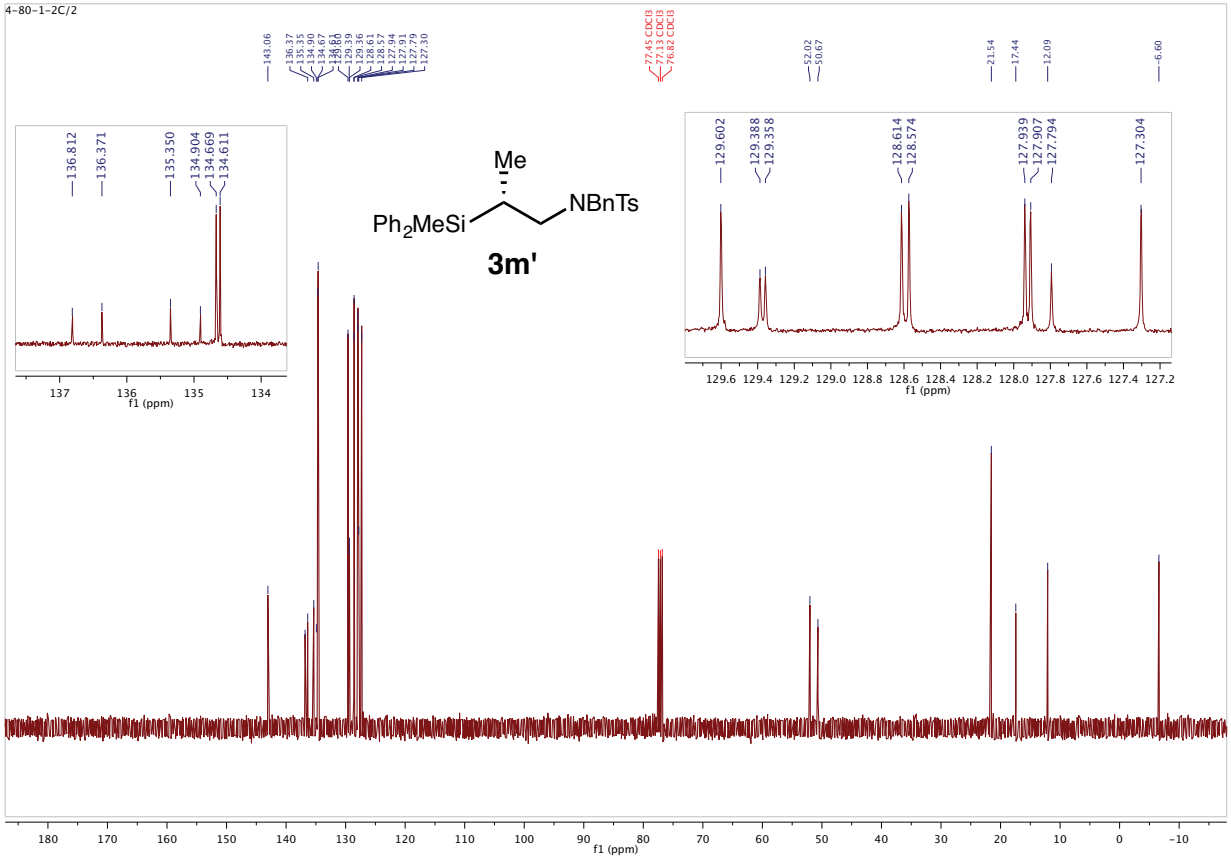

Me
PhMe2Si
NBn2
3l
f1 (ppm)

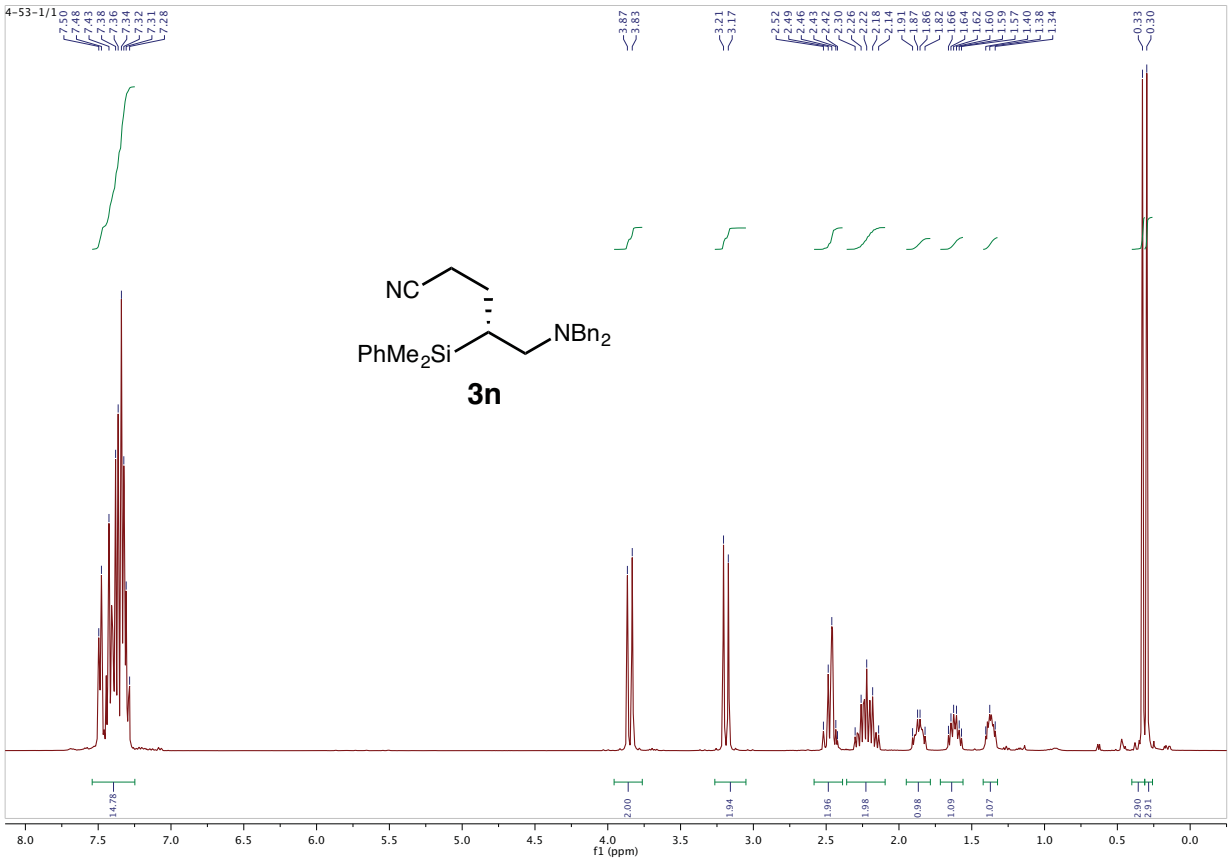

Me
PhMe2Si
NBn2
3l
f1 (ppm)

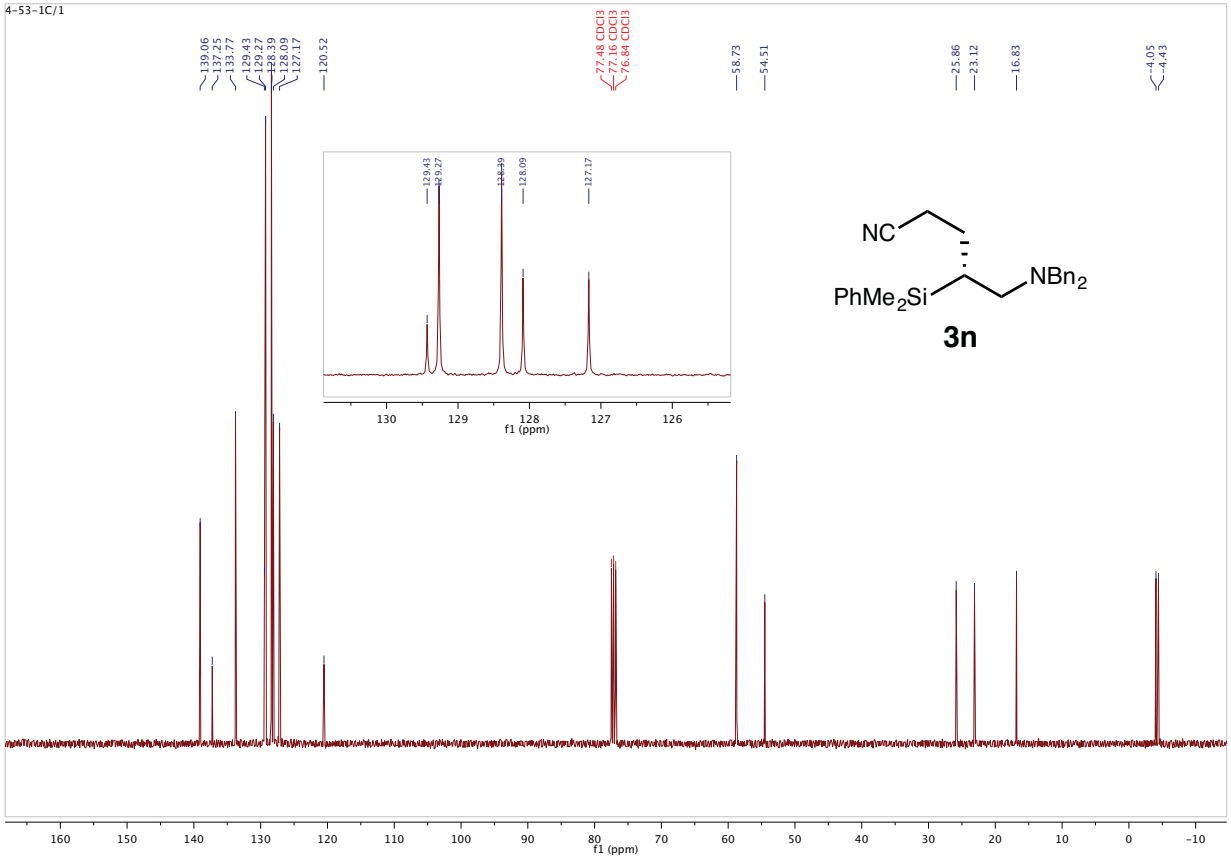

Me
Ph2MeSi
NBn2
3m
f1 (ppm)

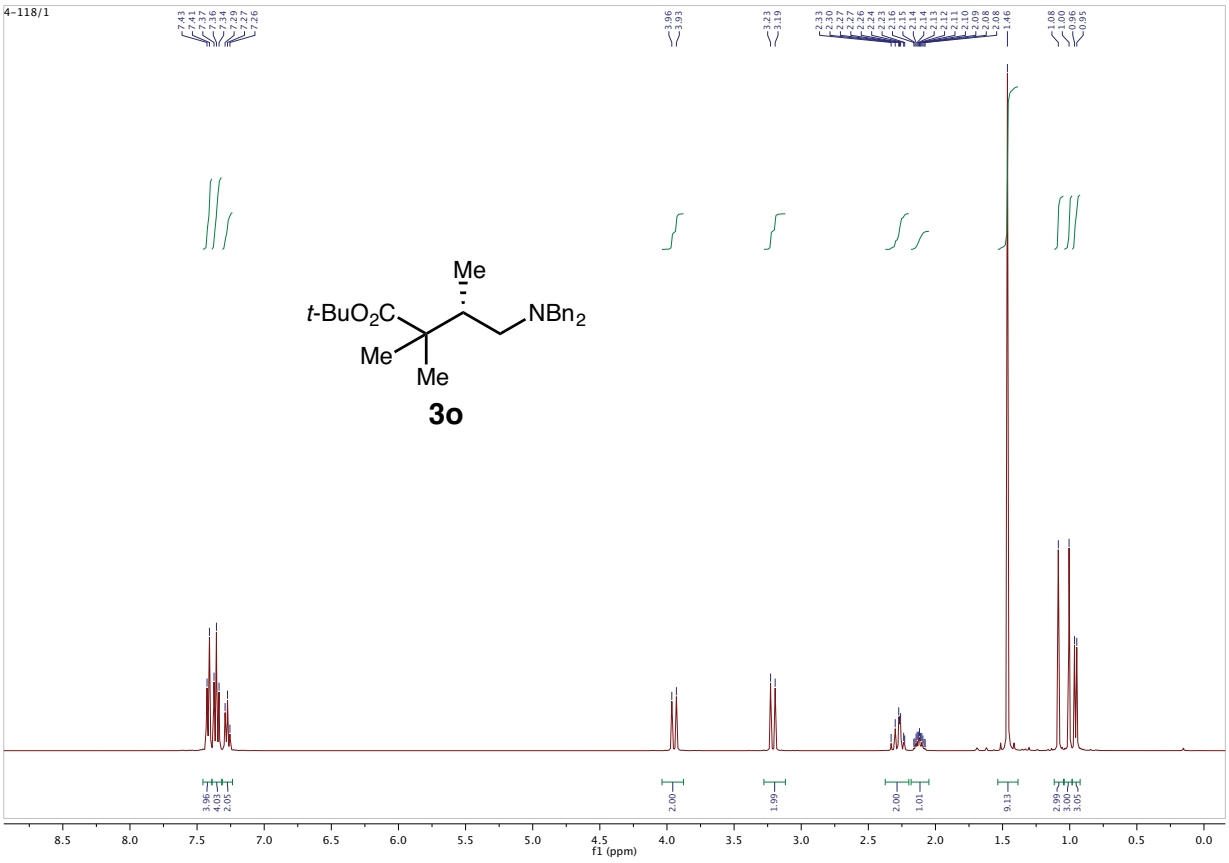

Me
Ph2MeSi
NBn2
3m
f1 (ppm)

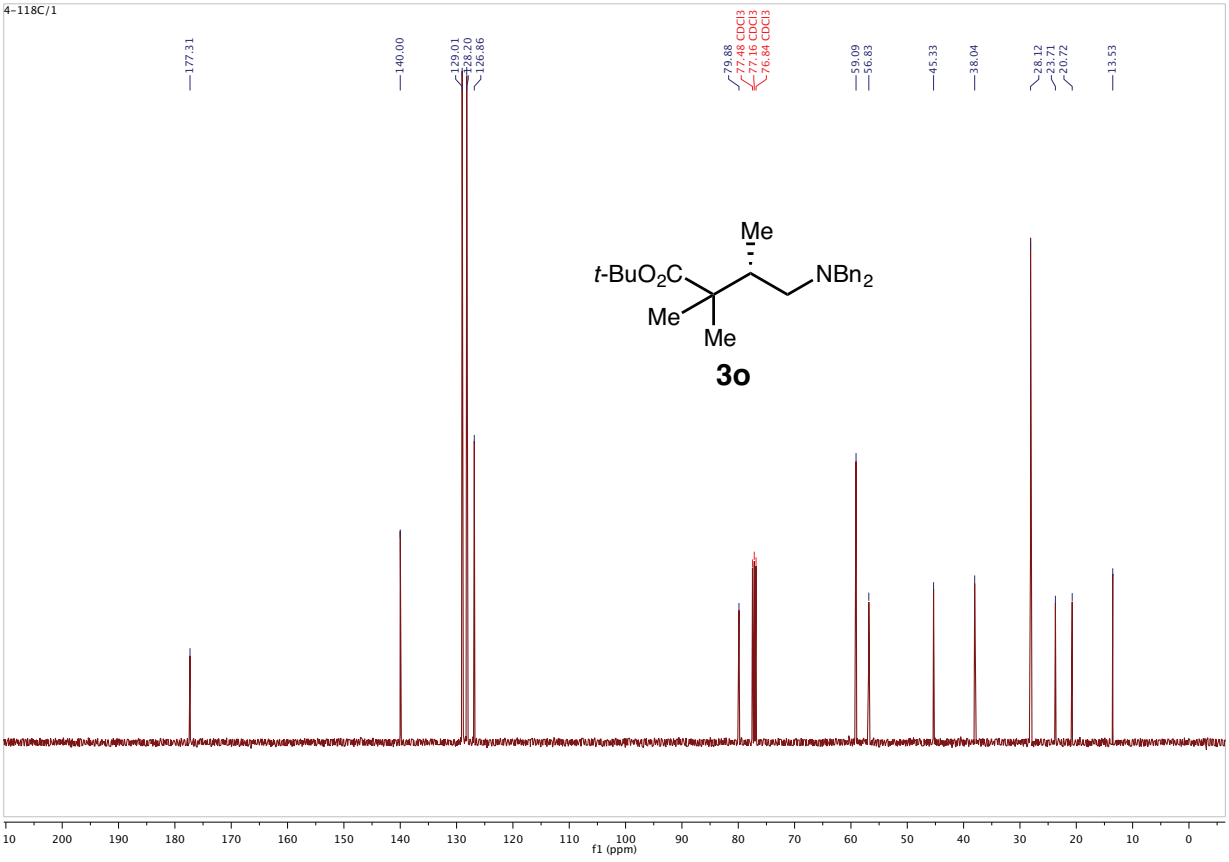

4-80-1-2/2
Me
Ph2MeSi
NBnTs
3m'
f1 (ppm)

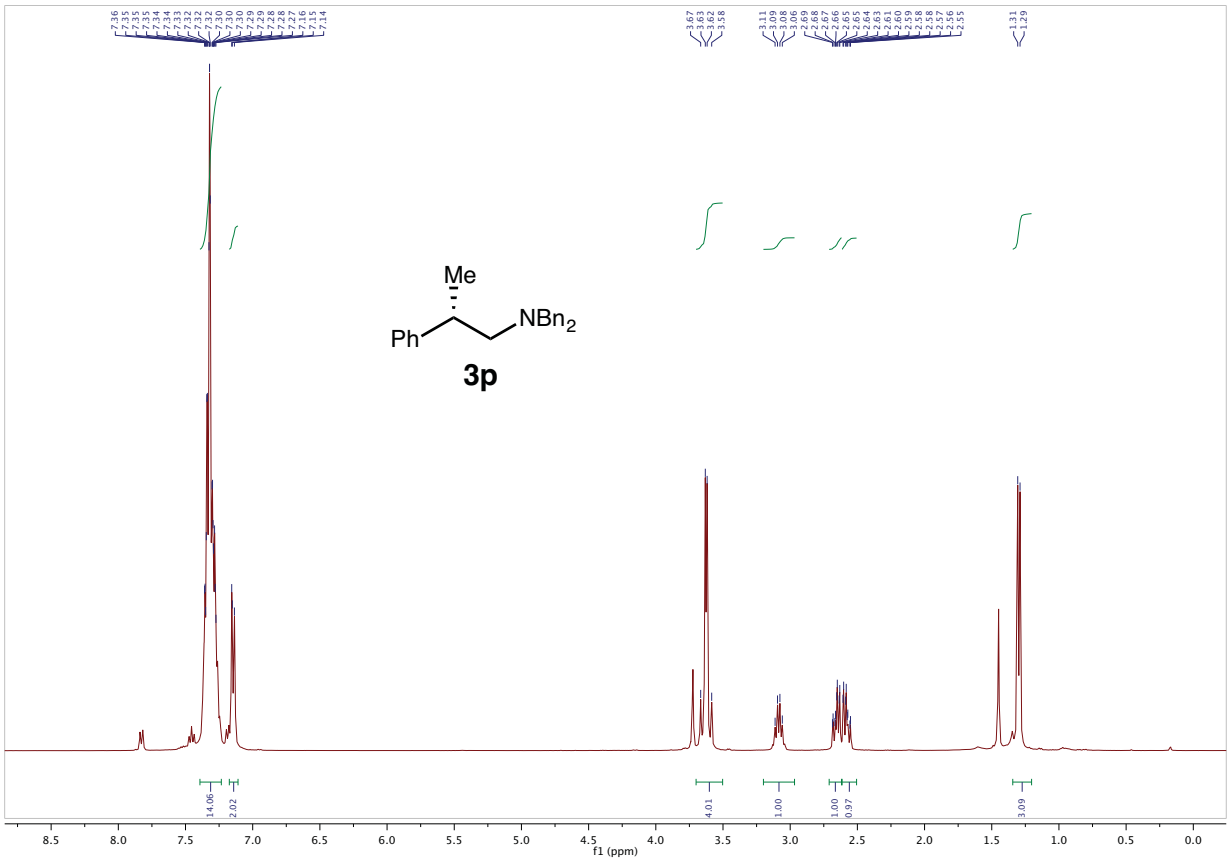

4-80-1-2C/2
Me
Ph2MeSi
NBnTs
3m'
f1 (ppm)

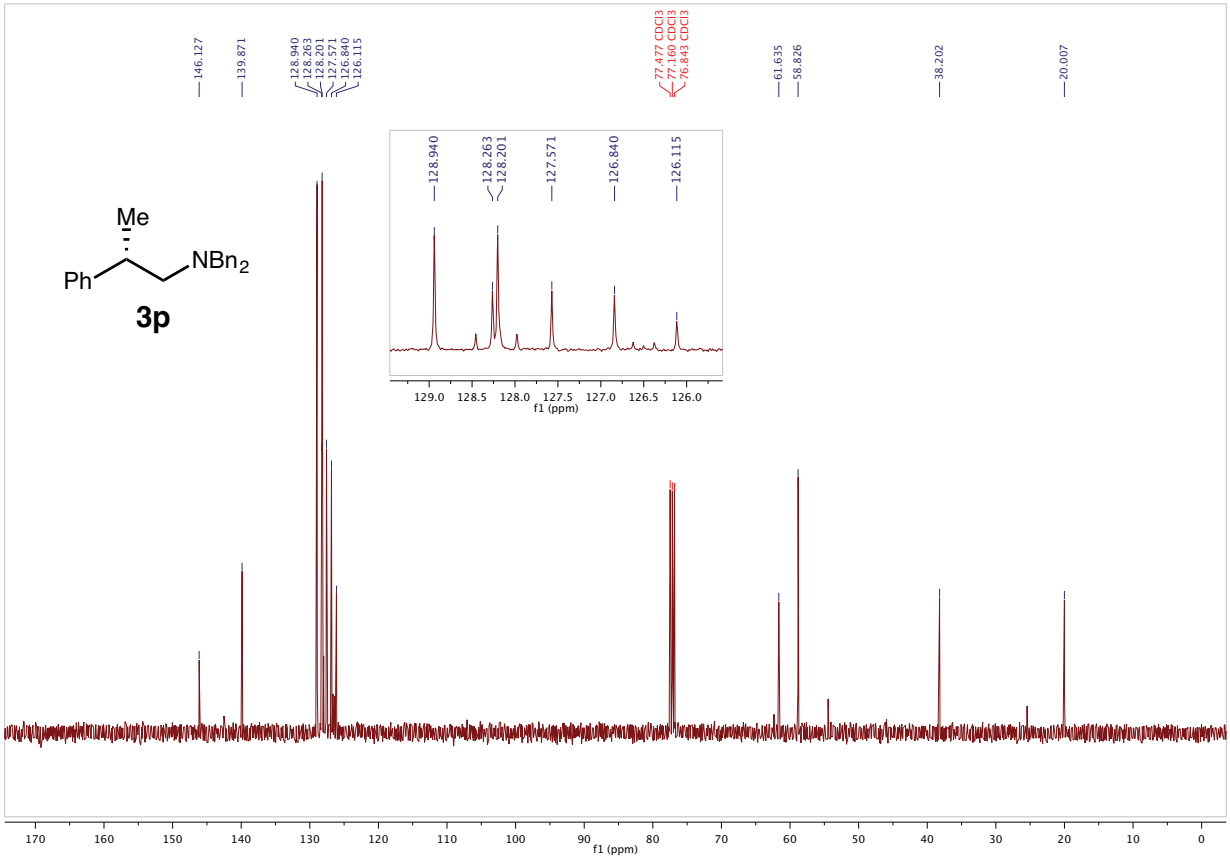

4-53-1/1
NC
PhMe2Si
NBn2
3n
f1 (ppm)

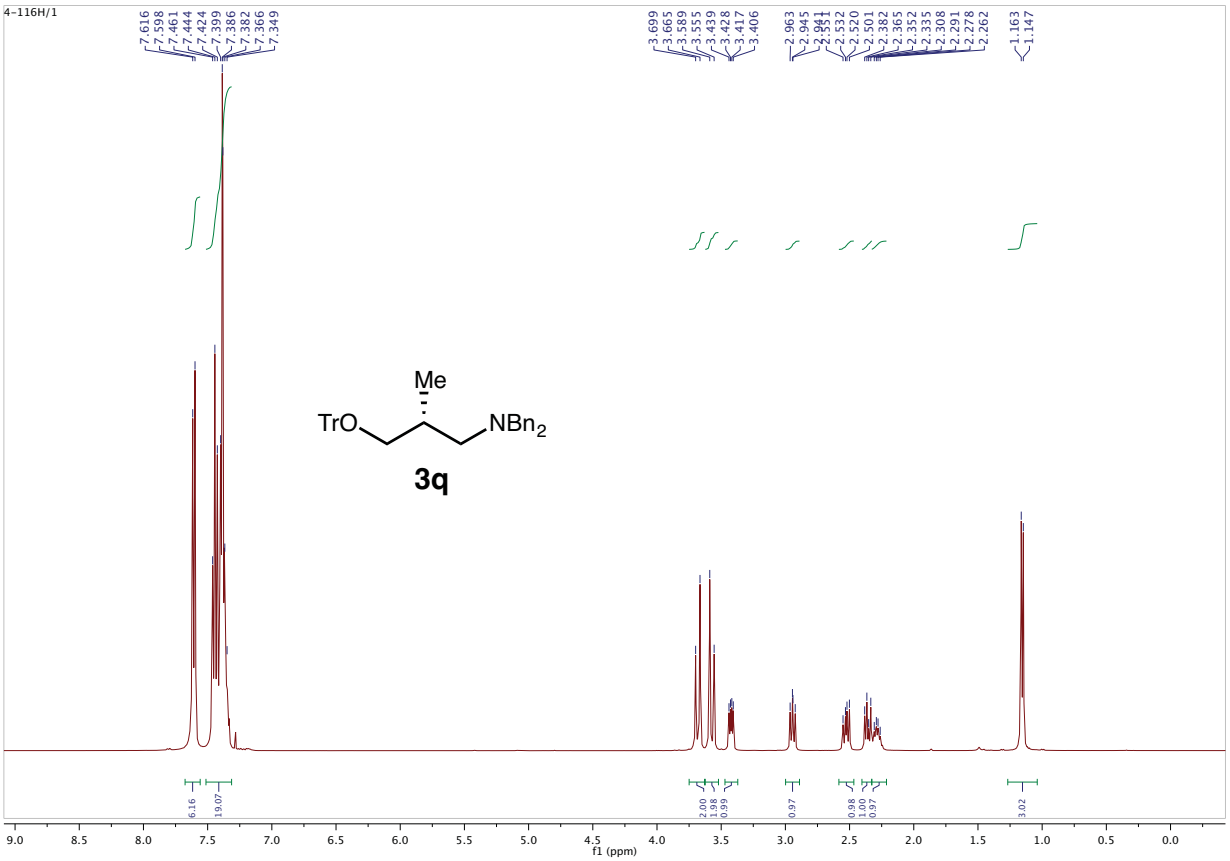

4-53-1C/1
77.48 CDCl3
77.16 CDCl3
76.84 CDCl3
NC
PhMe2Si
NBn2
3n
f1 (ppm)

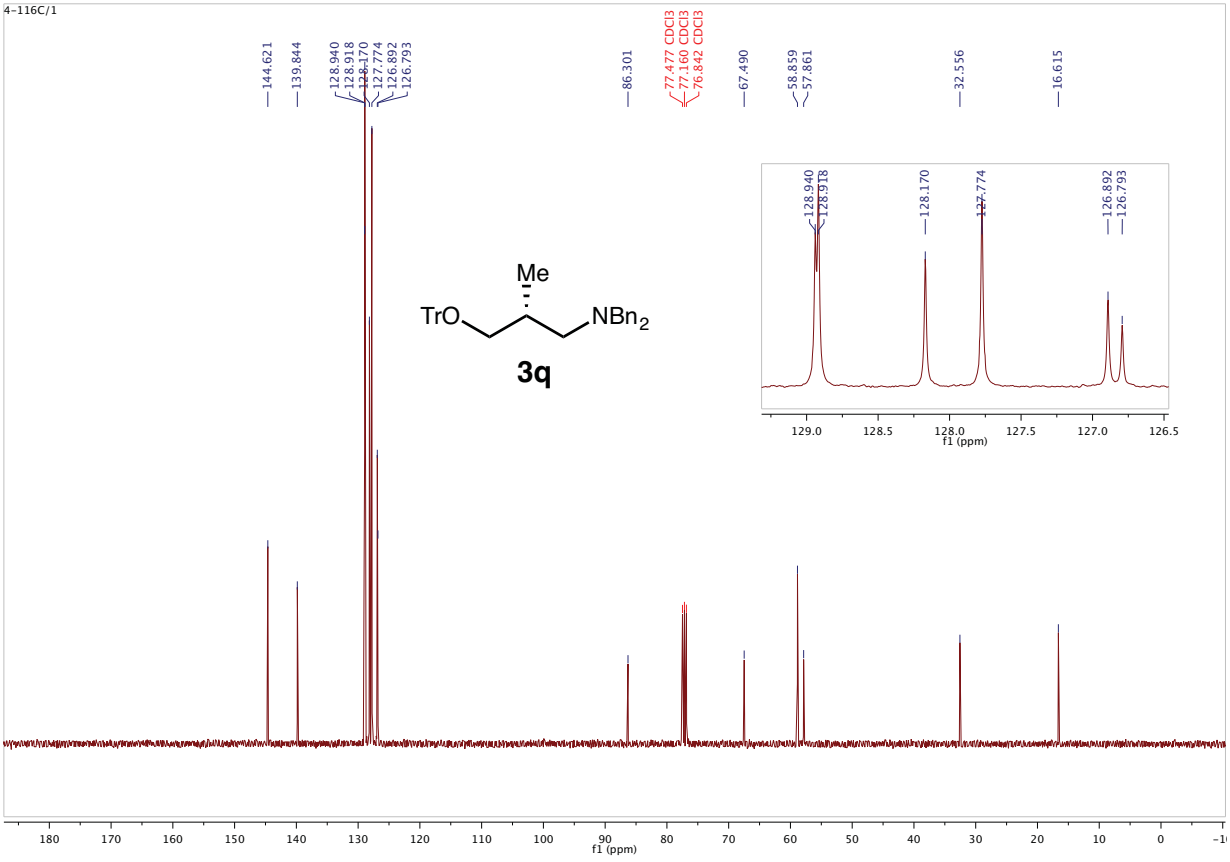

4-118/1
Me
t-BuO2C
NBn2
Me
Me
3o
f1 (ppm)

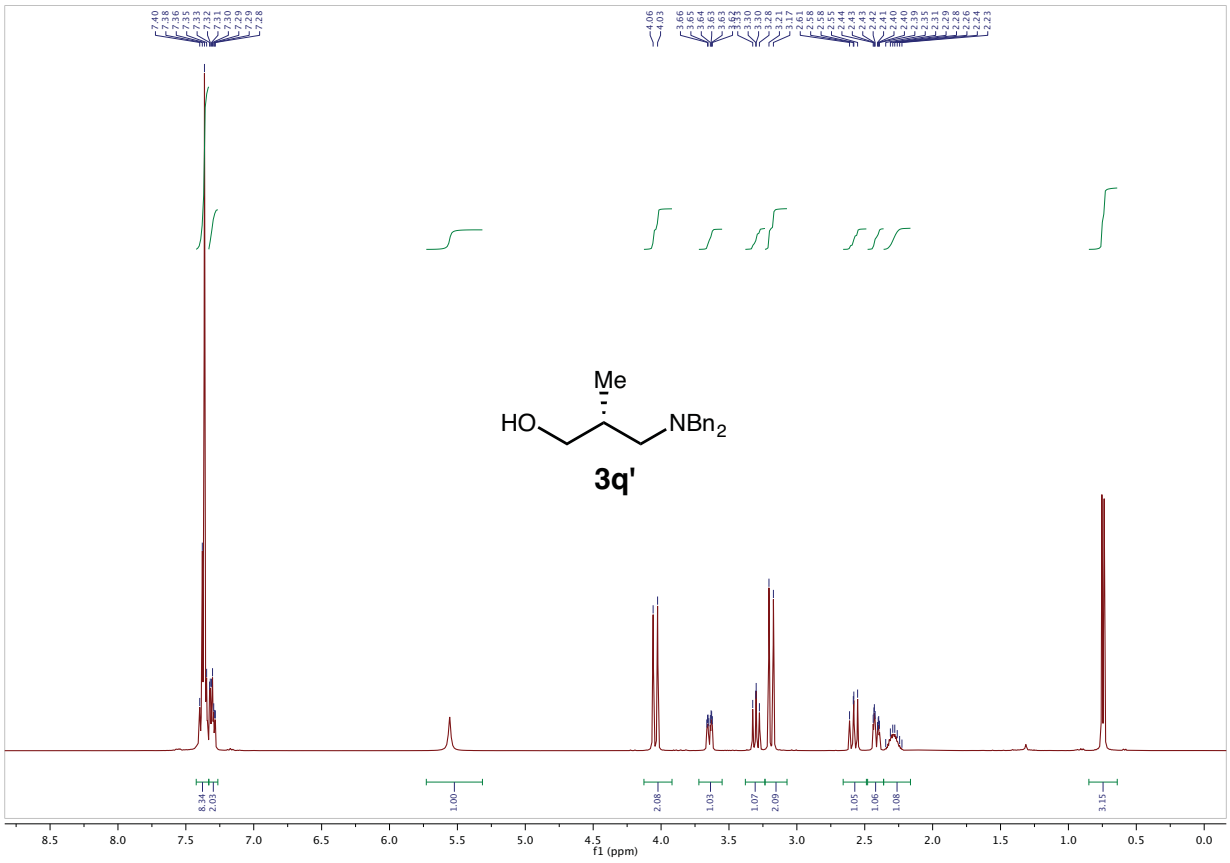

4-118C/1
177.31
140.00
129.01
128.20
126.86
79.88
77.48 CDCl3
77.16 CDCl3
76.84 CDCl3
59.09
56.83
45.33
38.04
28.12
23.71
20.72
13.53
Me
t-BuO2C
NBn2
Me
Me
3o
f1 (ppm)

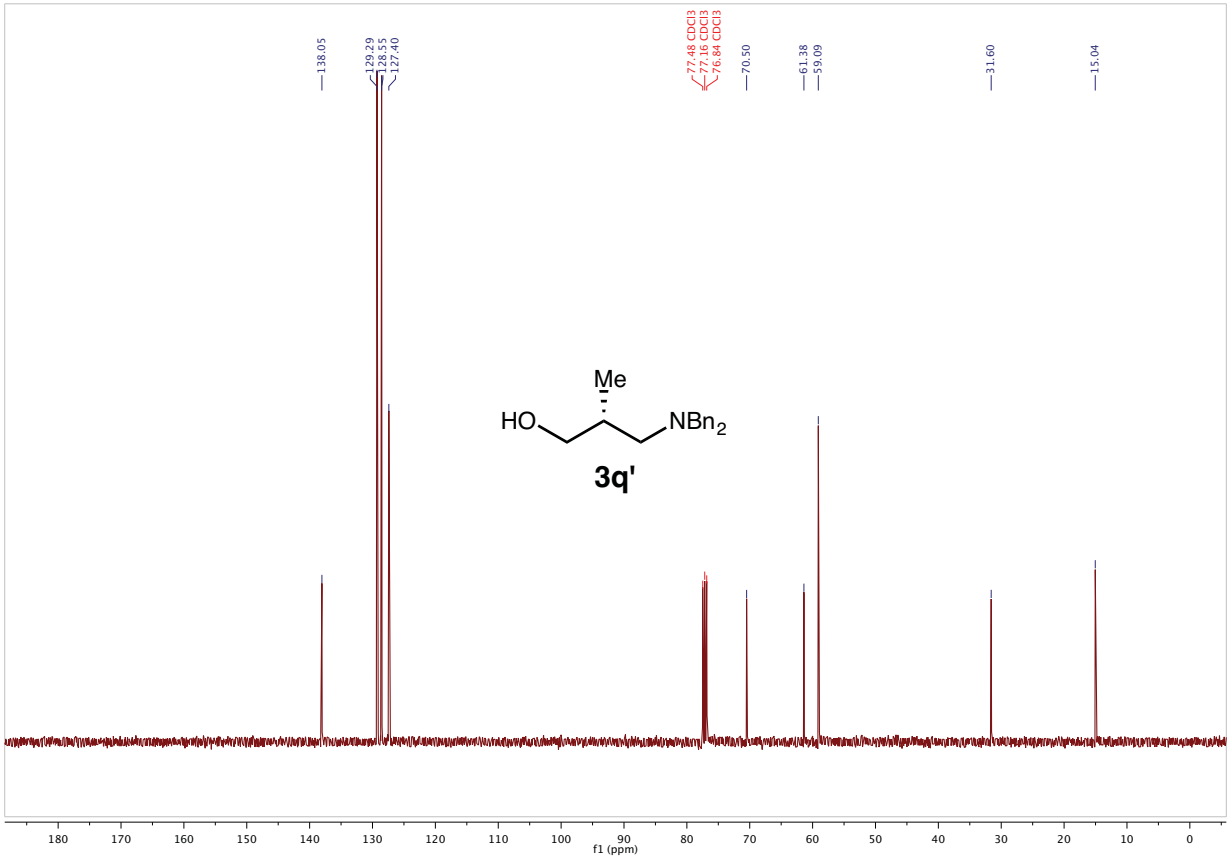

Me
Ph
NBn2
3p
f1 (ppm)

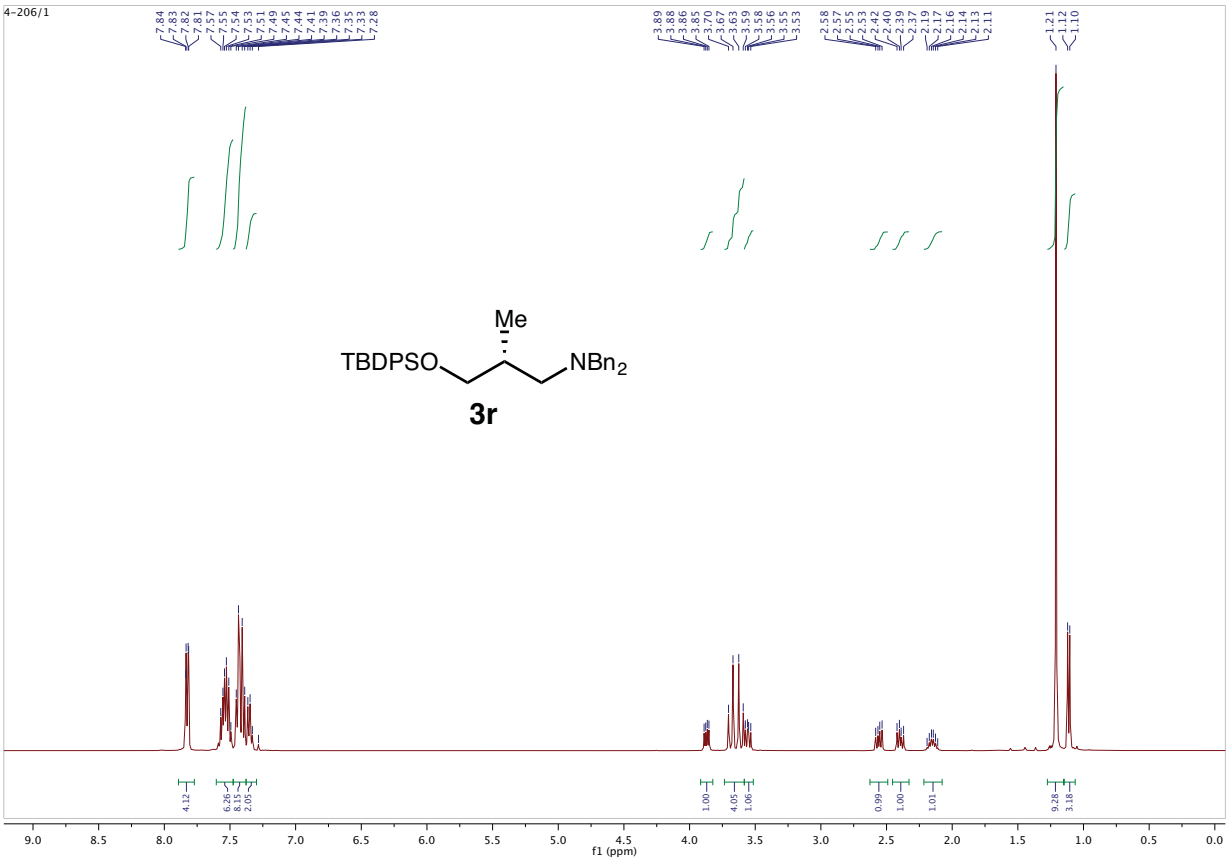

146.127
139.871
128.940
128.263
128.201
127.571
126.840
126.115
77.477 CDCl3
77.160 CDCl3
76.843 CDCl3
61.635
58.826
38.202
20.007
Me
Ph
NBn2
3p
f1 (ppm)

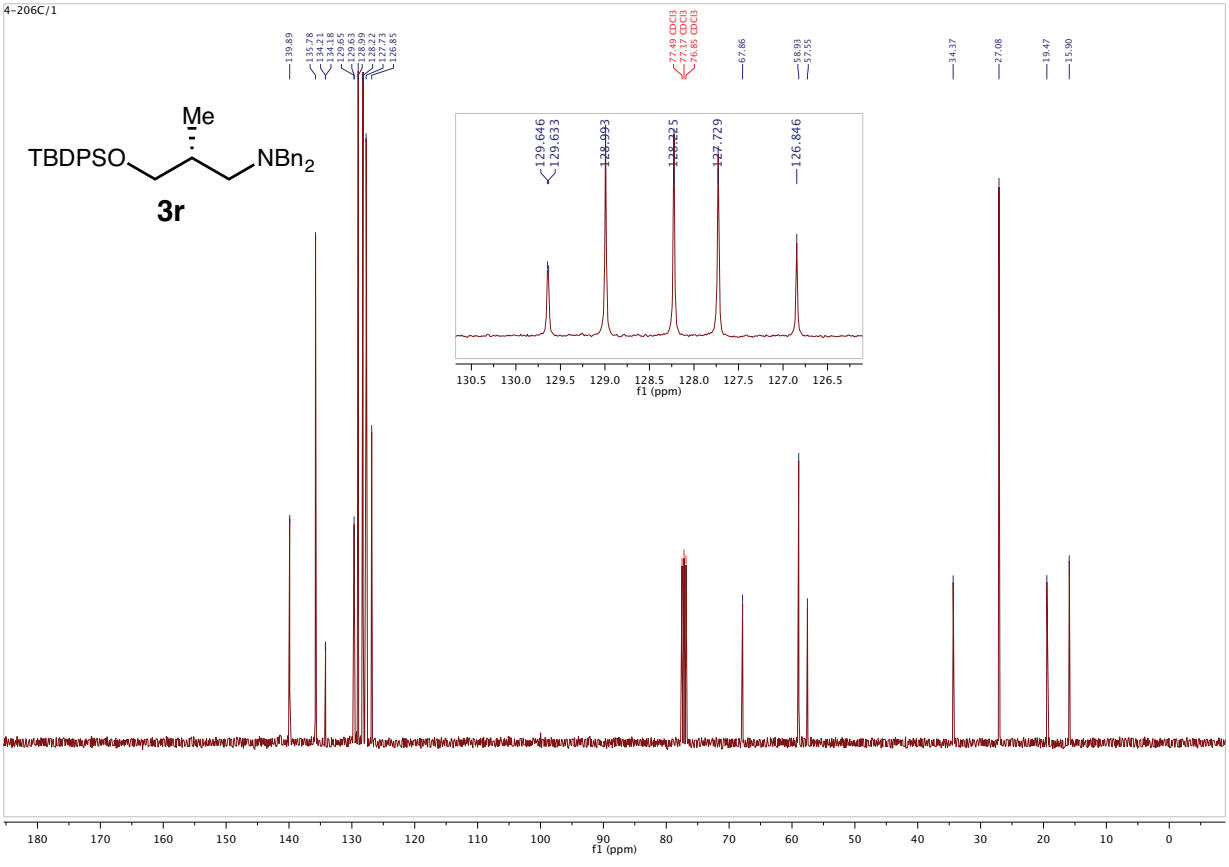

4-116H/1
7.616
7.598
7.461
7.444
7.424
7.399
7.386
7.382
7.366
7.349
3.699
3.665
3.589
3.555
3.439
3.428
3.417
3.406
2.963
2.945
2.941
2.551
2.532
2.520
2.501
2.382
2.365
2.352
2.335
2.308
2.291
2.278
2.262
1.163
1.147
Me
TrO
NBn2
3q
6.16
19.07
2.00
1.98
0.99
0.97
0.98
1.00
0.97
3.02
f1 (ppm)

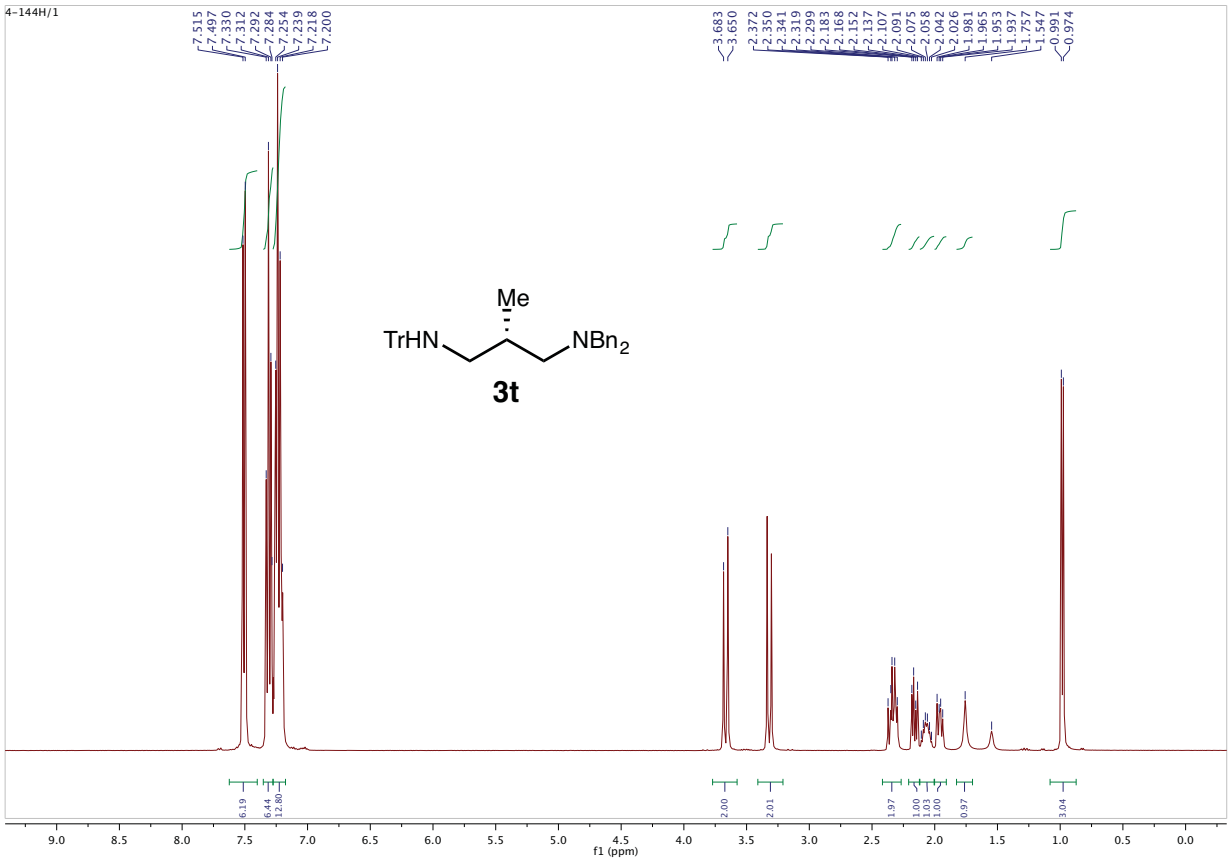

4-116C/1
144.621
139.844
128.940
128.918
128.170
127.774
126.892
126.793
86.301
77.477 CDCl3
77.160 CDCl3
76.842 CDCl3
67.490
58.859
57.861
32.556
16.615
Me
TrO
NBn2
3q
f1 (ppm)

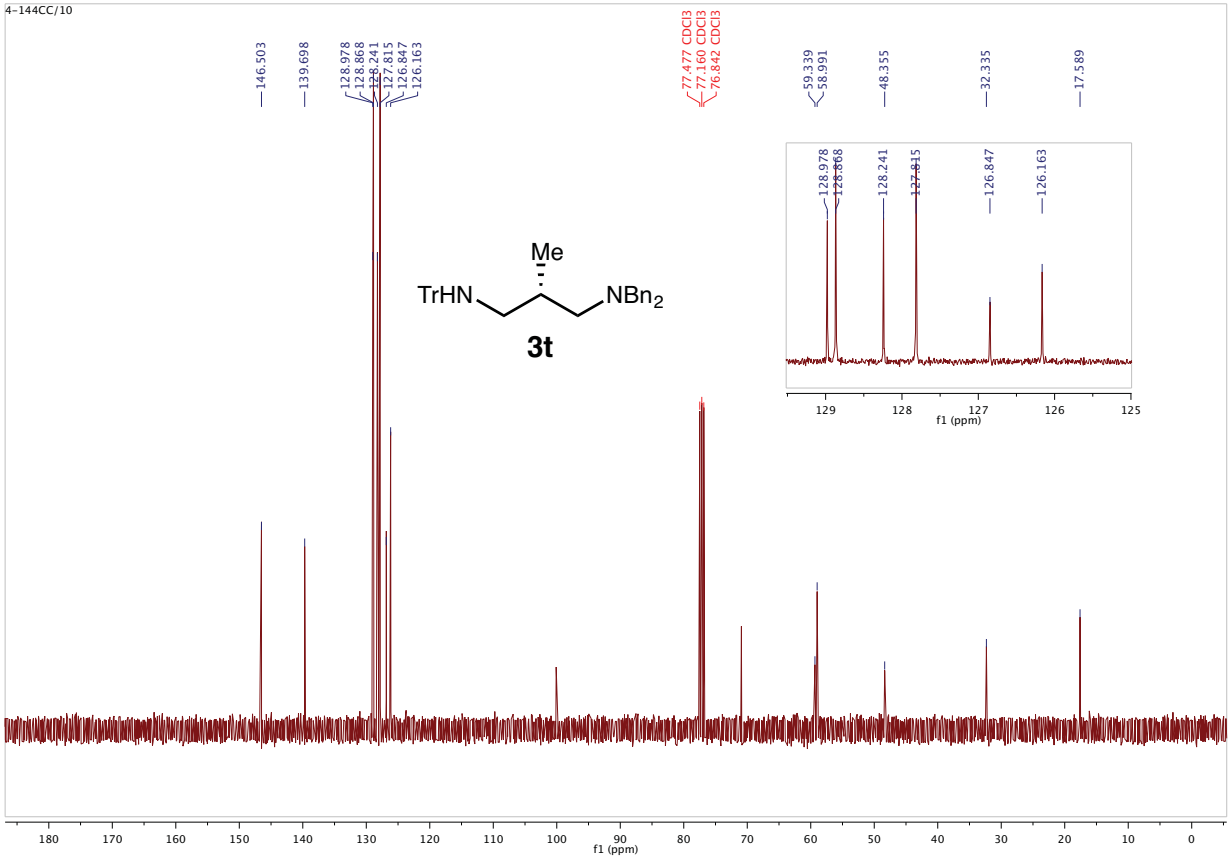

Me
HO
NBn2
3q'
f1 (ppm)

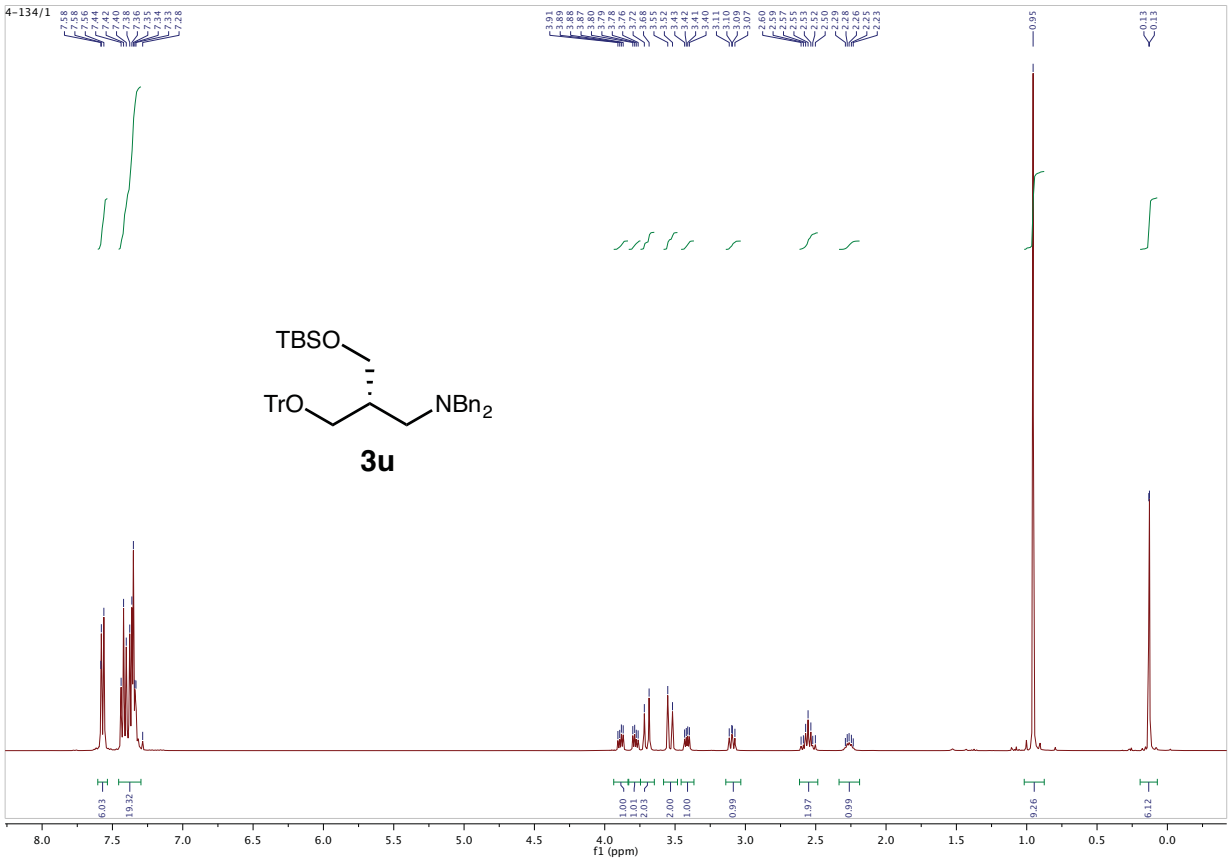

138.05
129.29
128.55
127.40
77.48 CDCl3
77.16 CDCl3
76.84 CDCl3
70.50
61.38
59.09
31.60
15.04
Me
HO
NBn2
3q'
f1 (ppm)

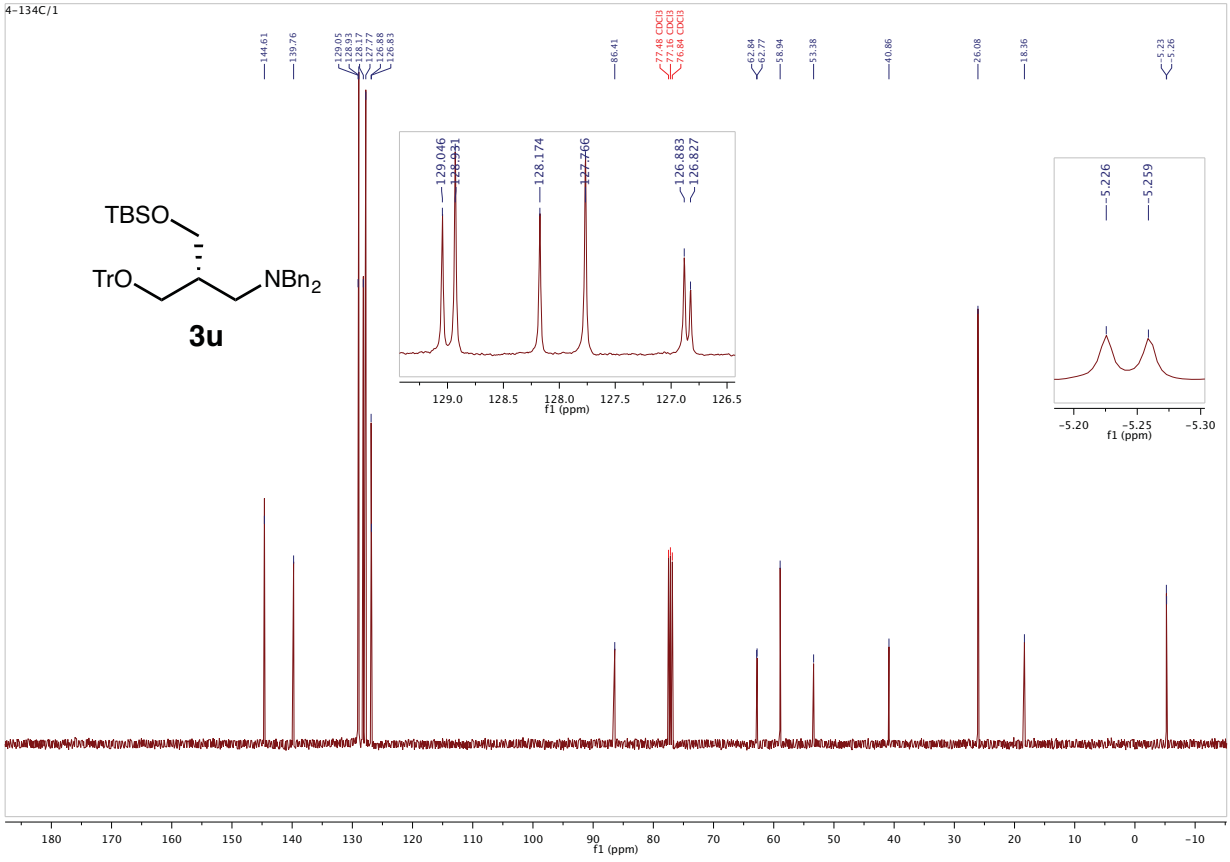

4-206/1
Me
TBDPSO
NBn2
3r
f1 (ppm)

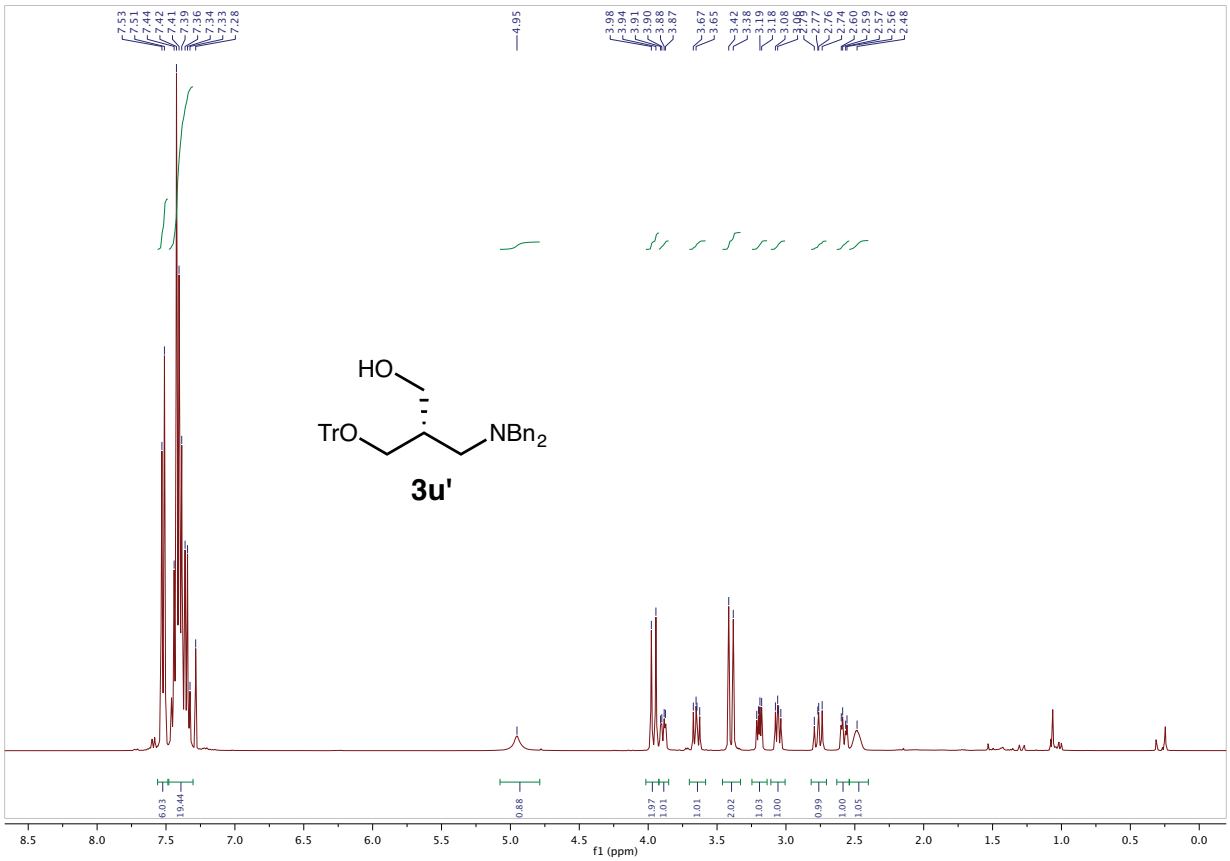

4-206C/1
Me
TBDPSO
NBn2
3r
f1 (ppm)

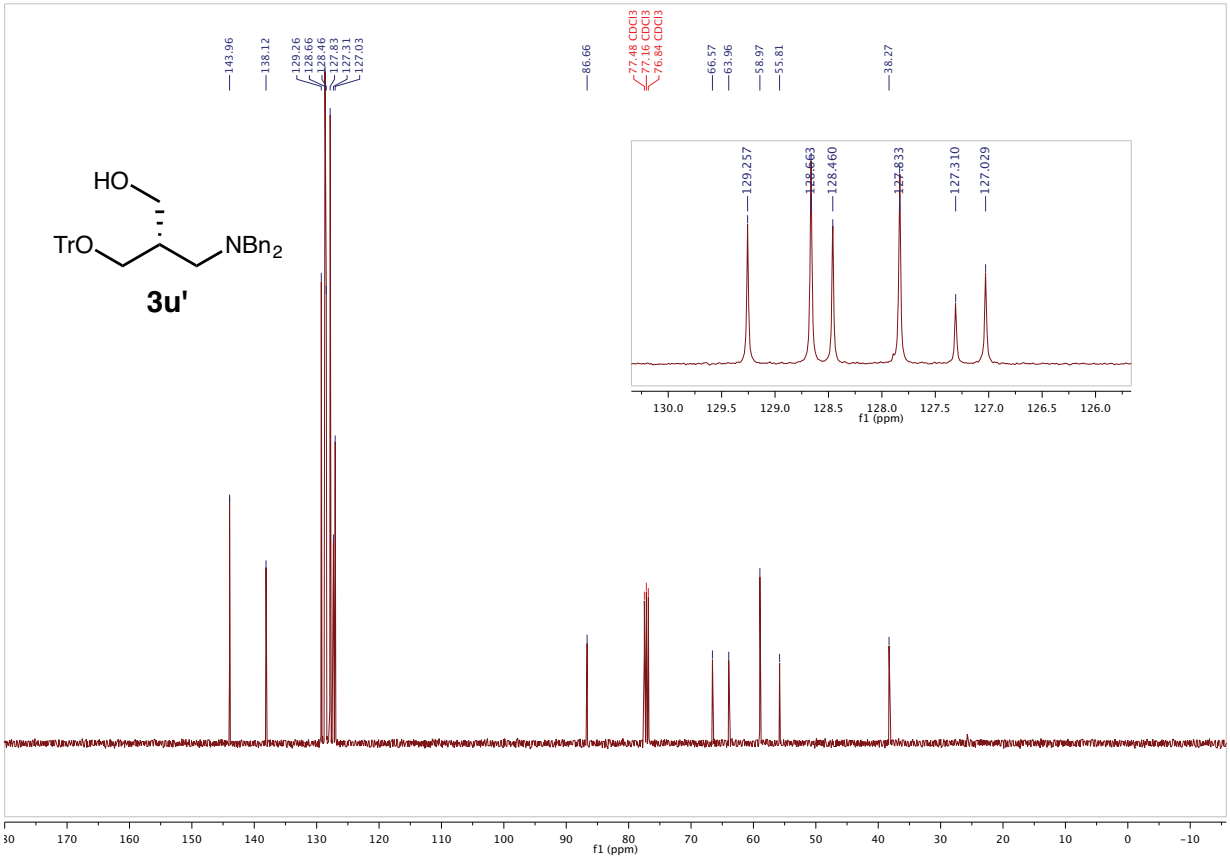

4-144H/1
7.515
7.497
7.330
7.312
7.292
7.284
7.254
7.239
7.218
7.200
3.683
3.650
2.372
2.350
2.341
2.319
2.299
2.183
2.168
2.152
2.137
2.107
2.091
2.075
2.058
2.042
2.026
1.981
1.965
1.953
1.937
1.757
1.547
0.991
0.974
Me
TrHN
NBn2
3t
6.19
6.44
12.80
2.00
2.01
1.97
1.00
1.03
1.00
0.97
3.04
f1 (ppm)

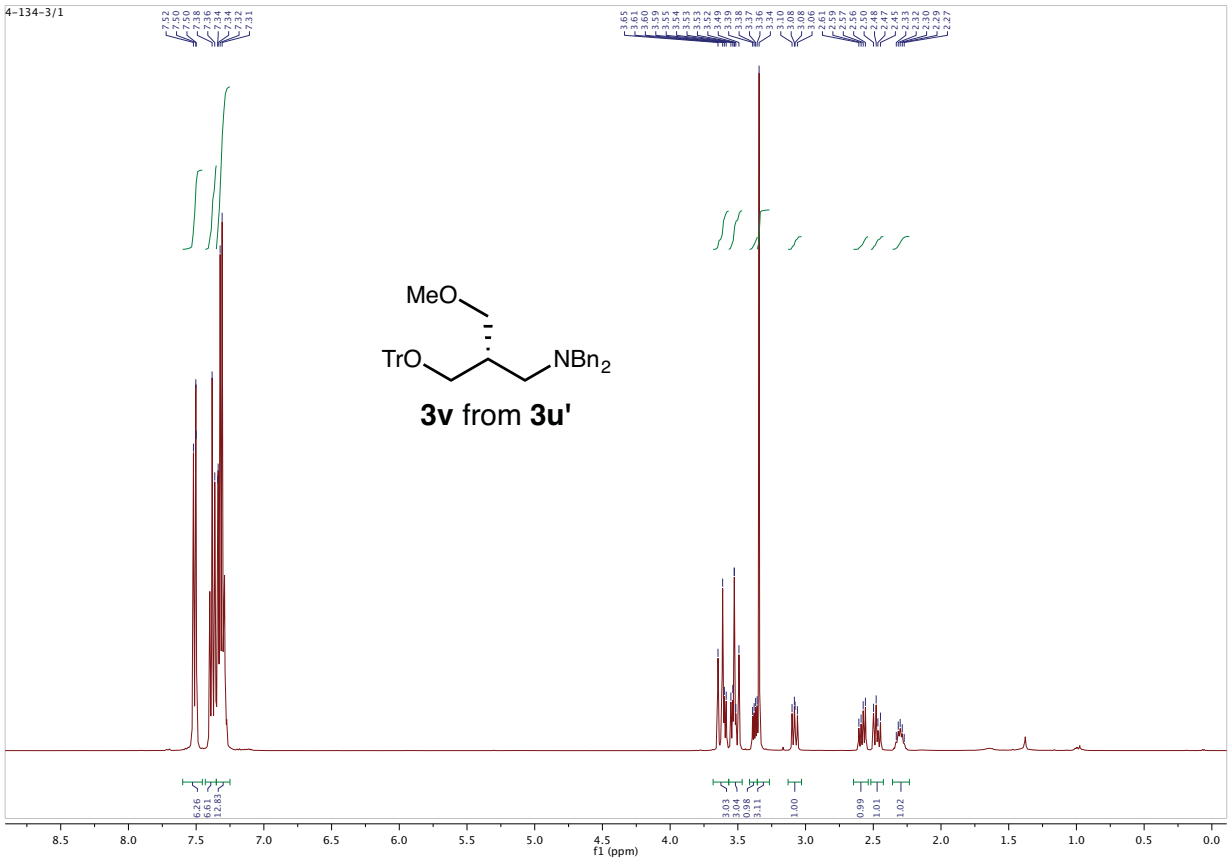

4-144CC/10
146.503
139.698
128.978
128.868
128.241
127.815
126.847
126.163
77.477 CDCl3
77.160 CDCl3
76.842 CDCl3
59.339
58.991
48.355
32.335
17.589
Me
TrHN
NBn2
3t
f1 (ppm)

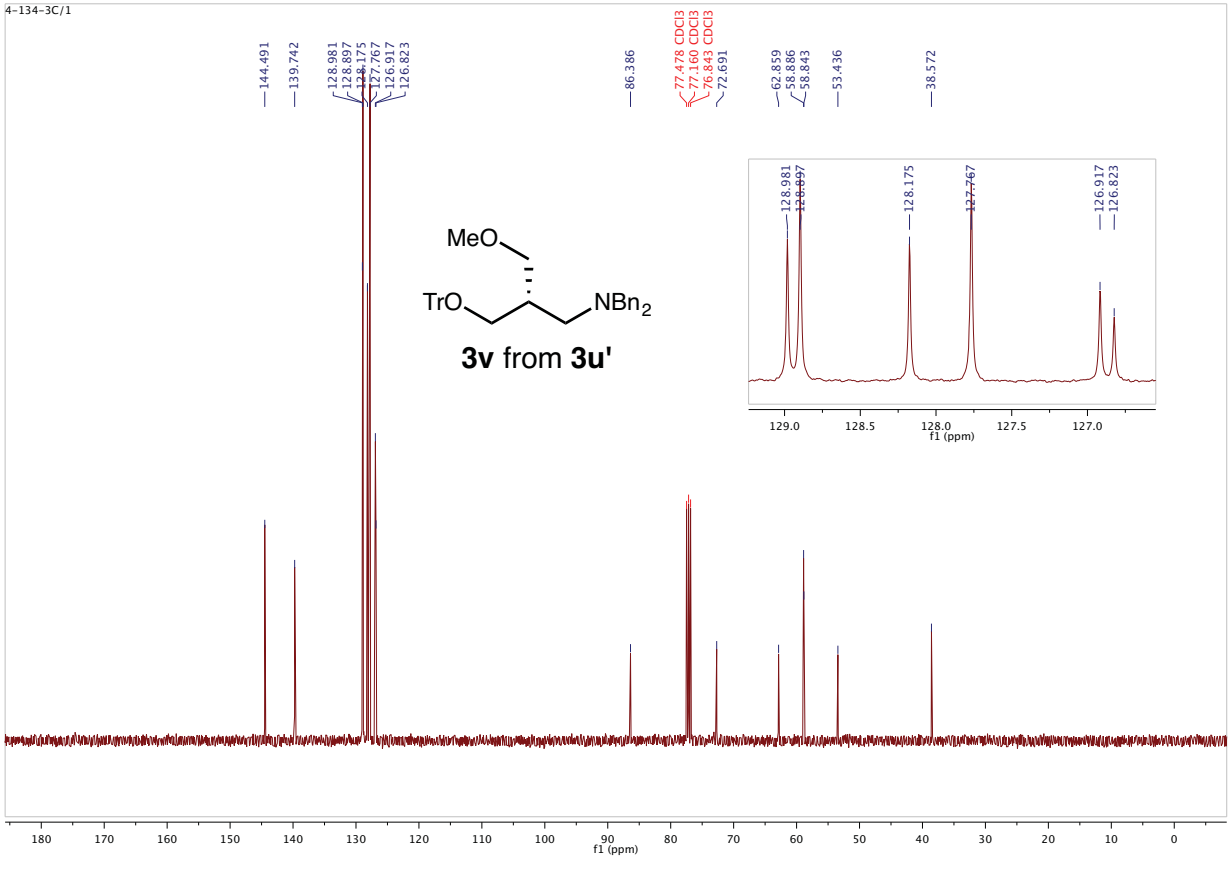

4-134/1
TBSO
TrO
NBn2
3u
f1 (ppm)

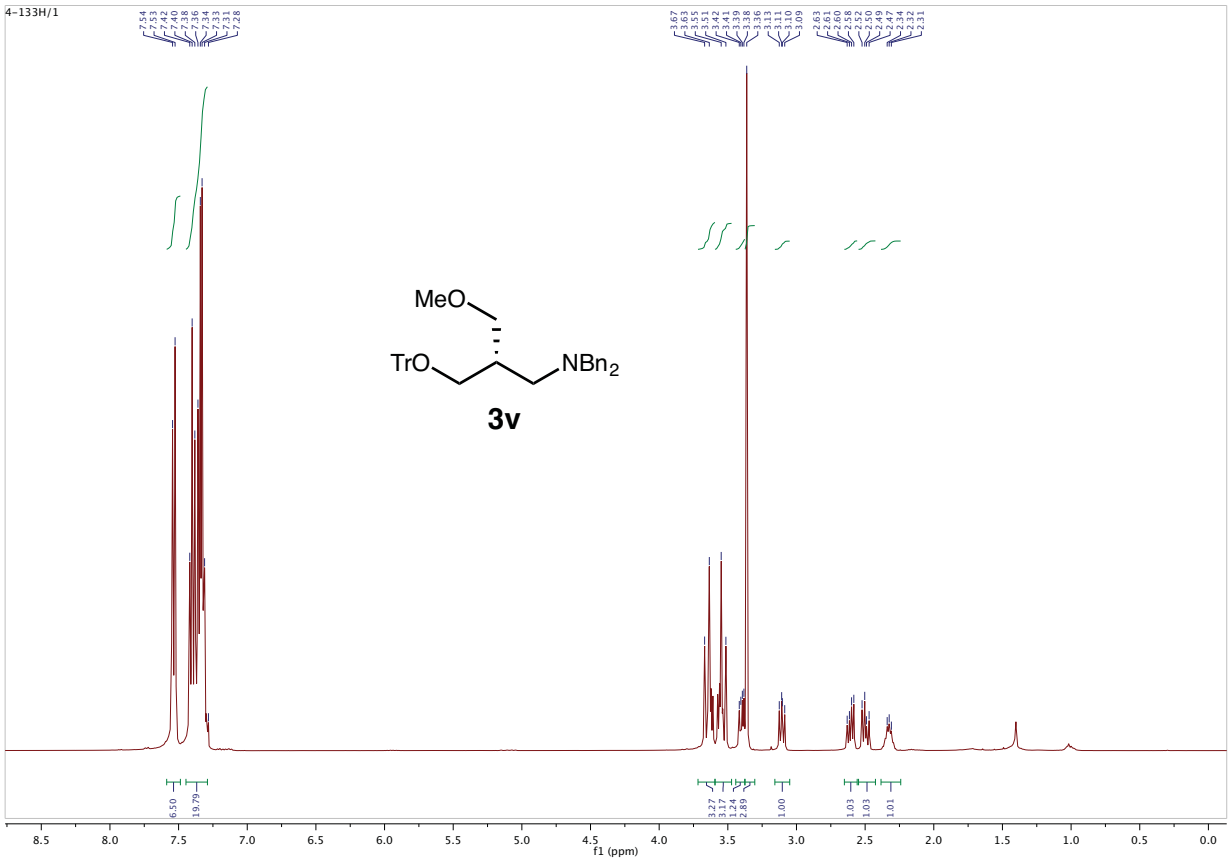

4-134C/1
TBSO
TrO
NBn2
3u
f1 (ppm)

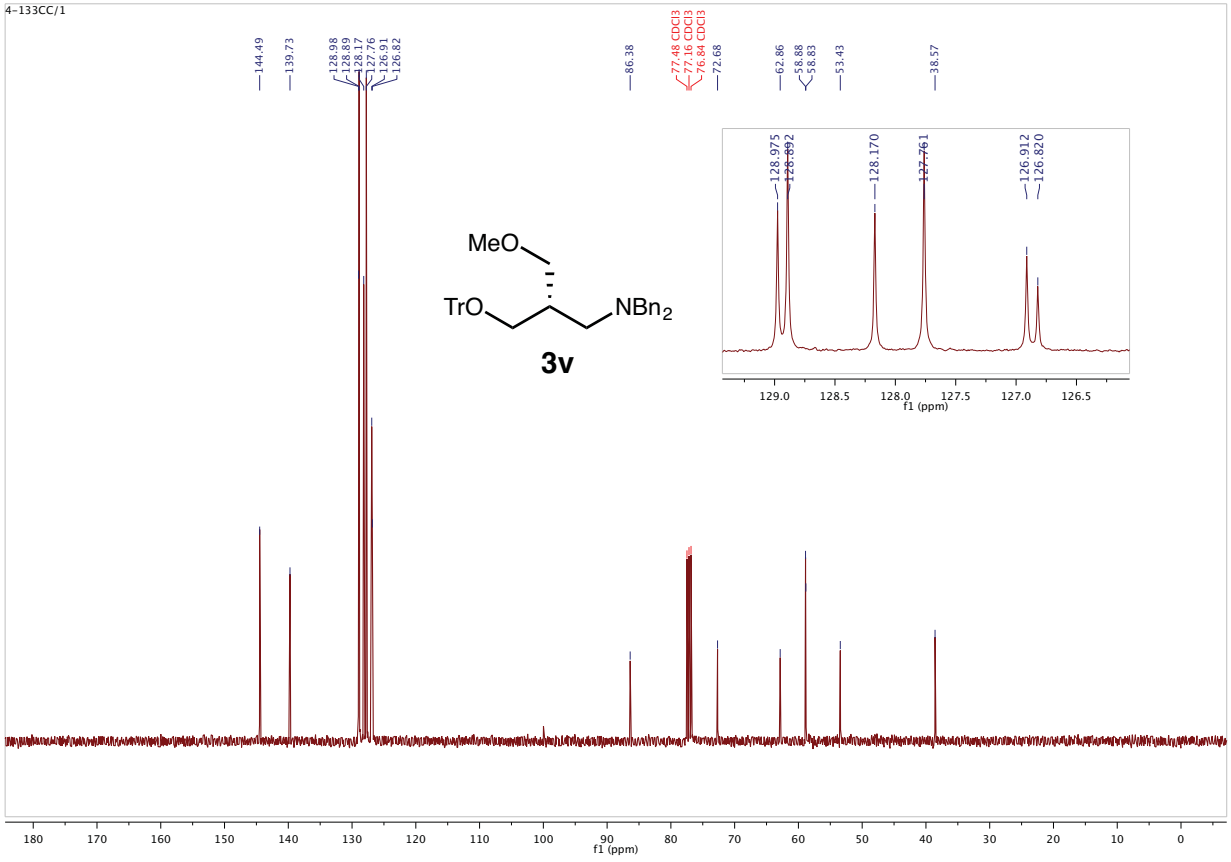

HO
TrO
NBn2
3u'
f1 (ppm)

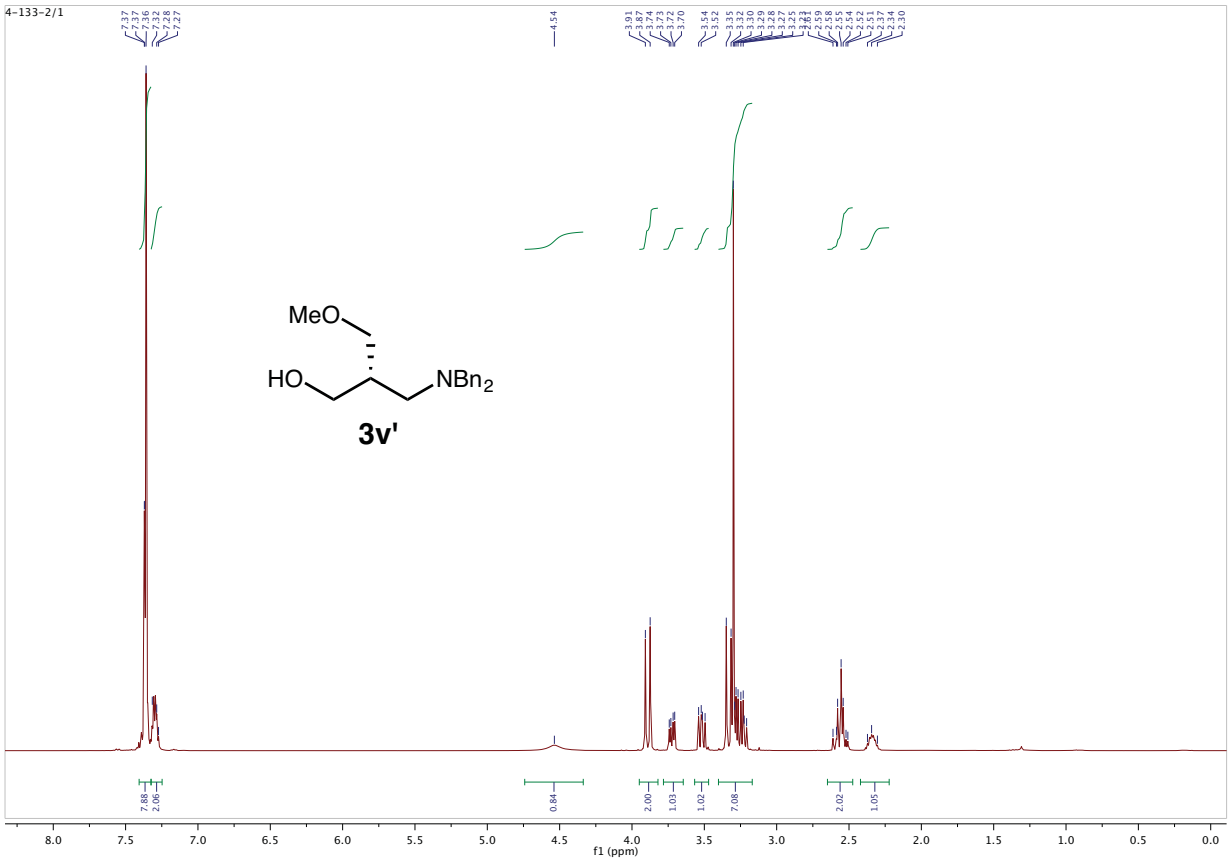

HO
TrO
NBn2
3u'
f1 (ppm)

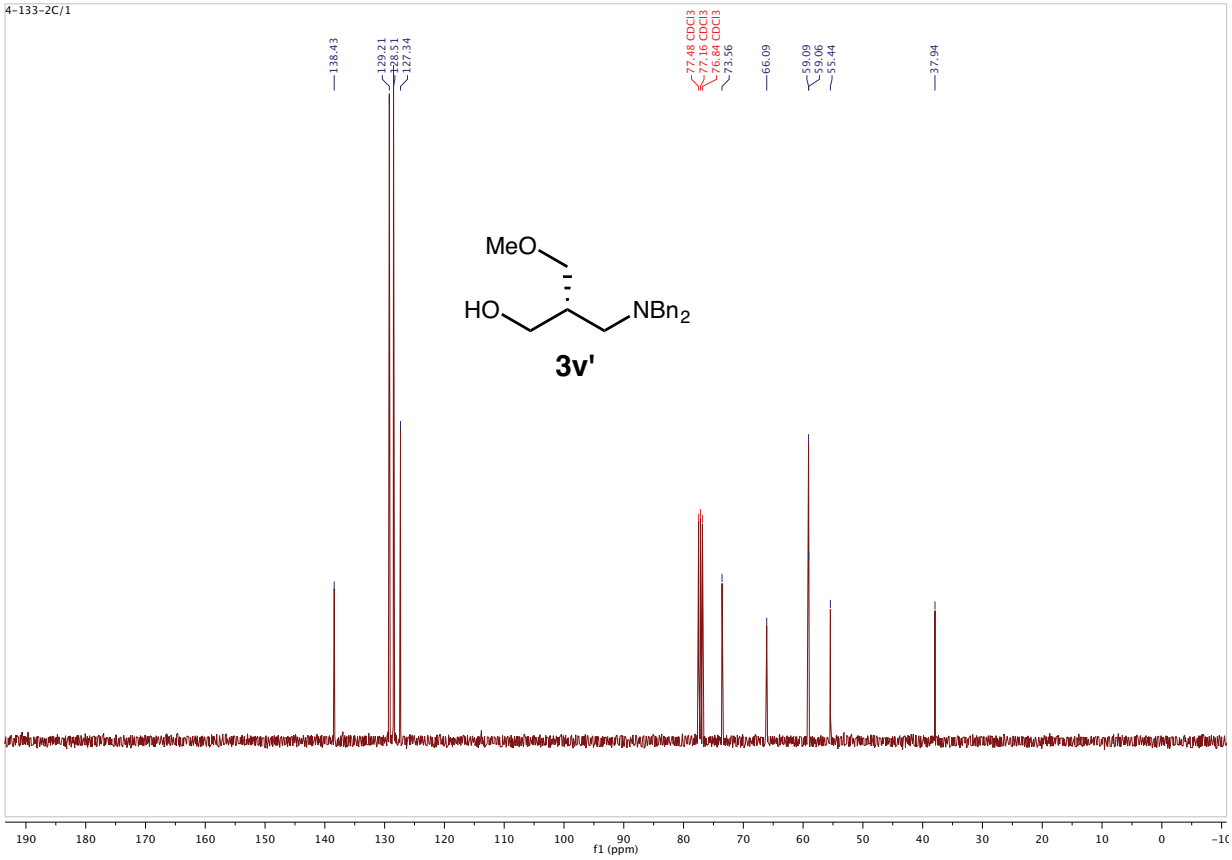

4-134-3/1
MeO
TrO
NBn2
3v from 3u'
f1 (ppm)

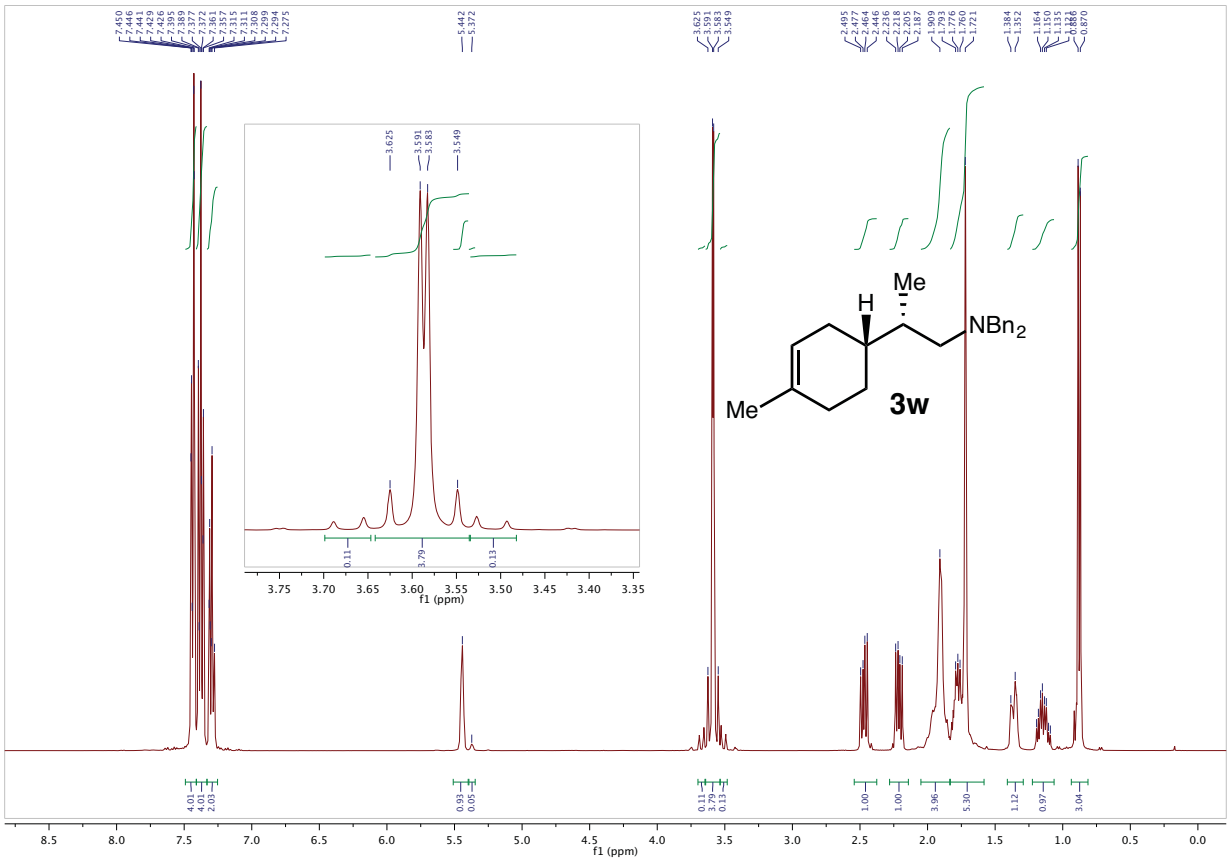

4-134-3C/1
144.491
139.742
128.981
128.897
128.175
127.767
126.917
126.823
86.386
77.478 CDCl3
77.160 CDCl3
76.843 CDCl3
72.691
62.859
58.886
58.843
53.436
38.572
MeO
TrO
NBn2
3v from 3u'
f1 (ppm)

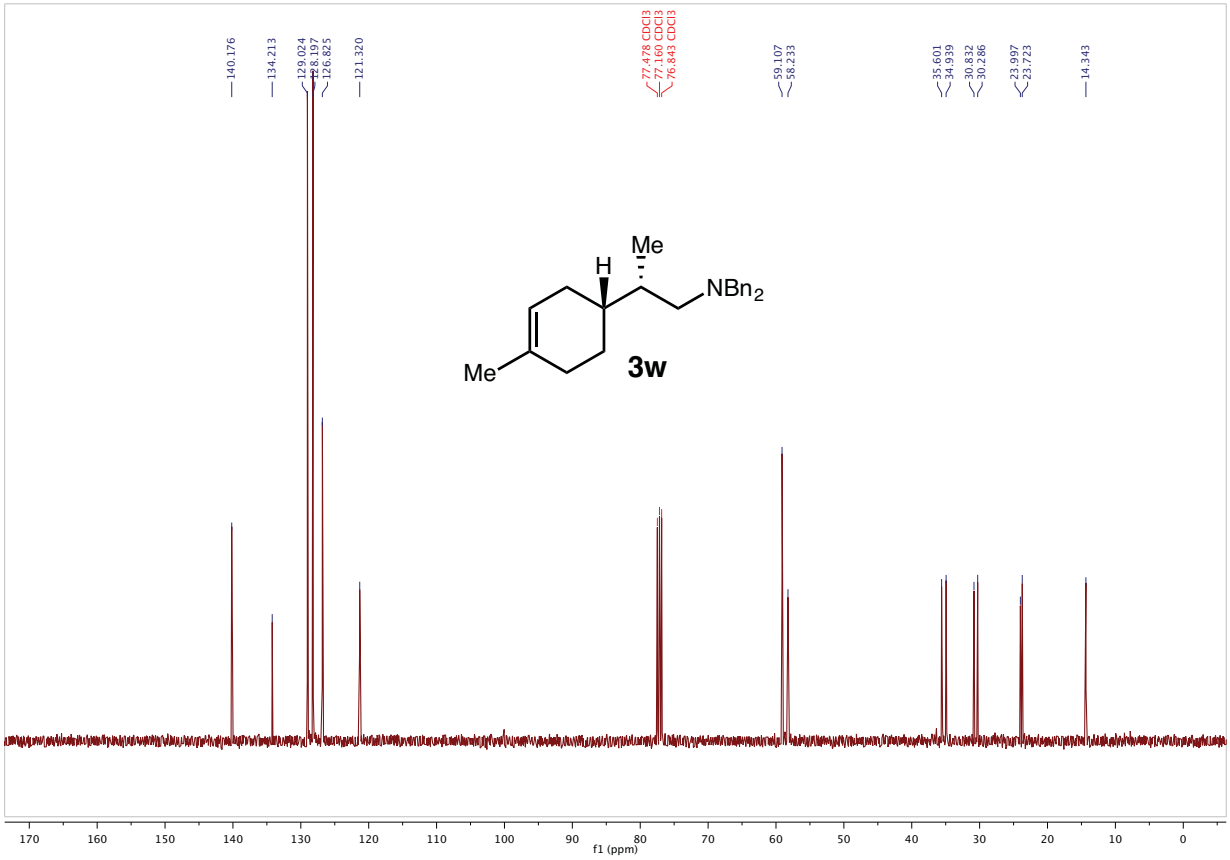

4-133H/1
MeO
TrO
NBn2
3v
f1 (ppm)

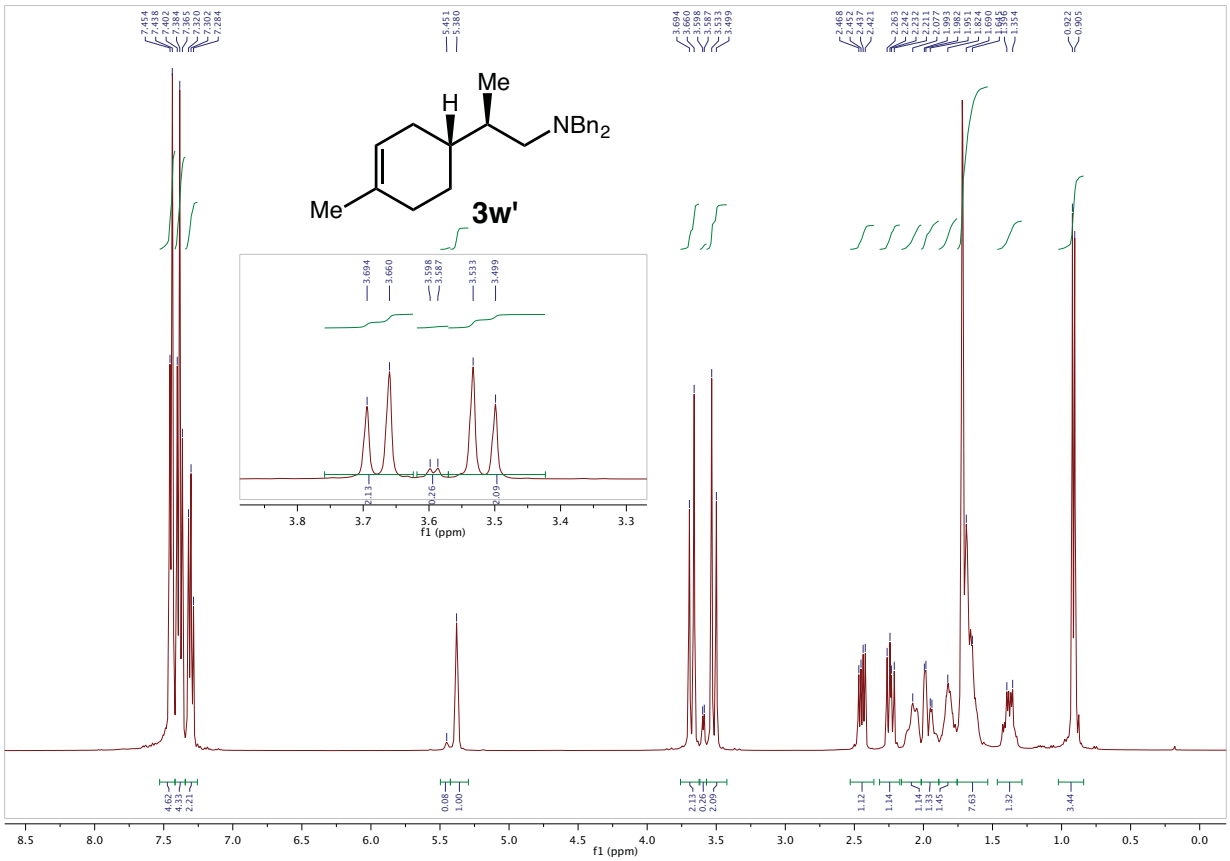

4-133CC/1
144.49
139.73
128.98
128.89
128.17
127.76
126.91
126.82
86.38
77.48 CDCl3
77.16 CDCl3
76.84 CDCl3
72.68
62.86
58.88
58.83
53.43
38.57
128.975
128.892
128.170
127.761
126.912
126.820
MeO
TrO
NBn2
3v
f1 (ppm)

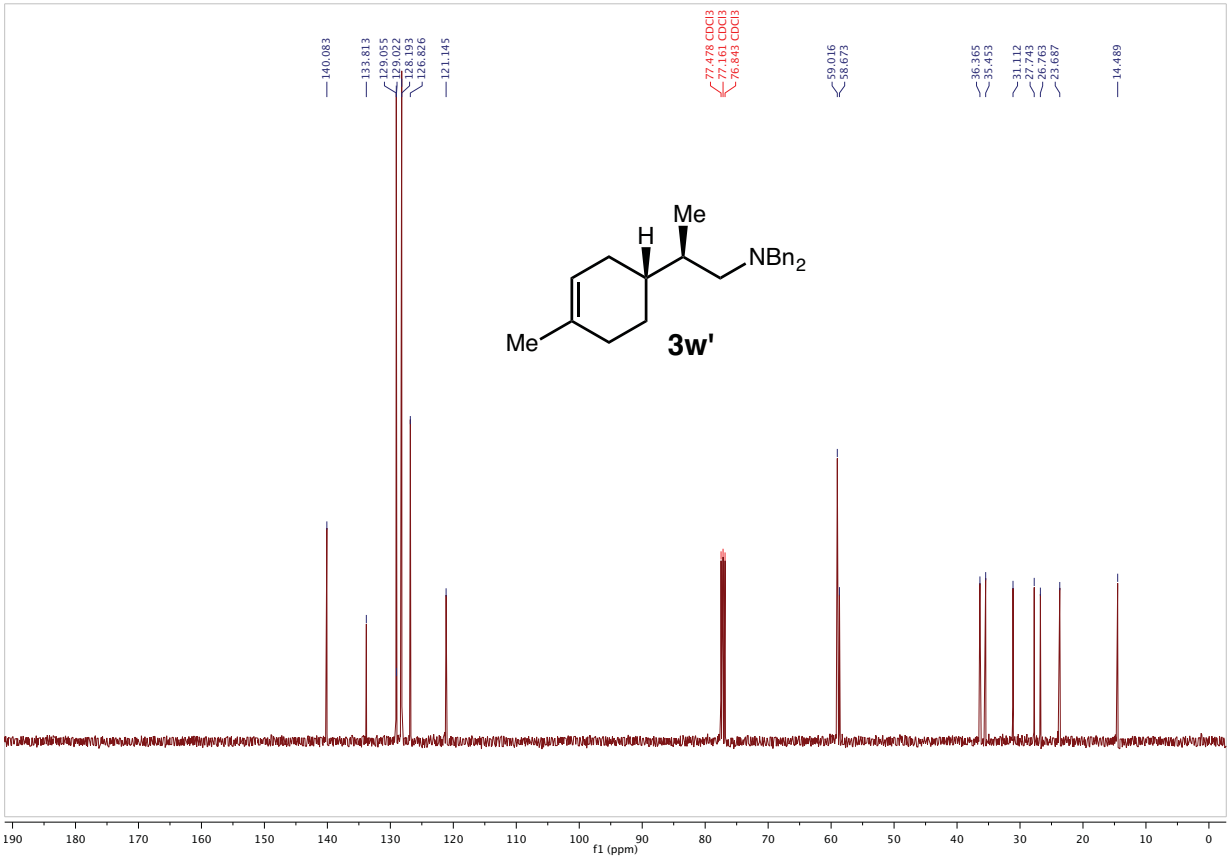

4-133-2/1
MeO
HO
NBn2
3v'
f1 (ppm)

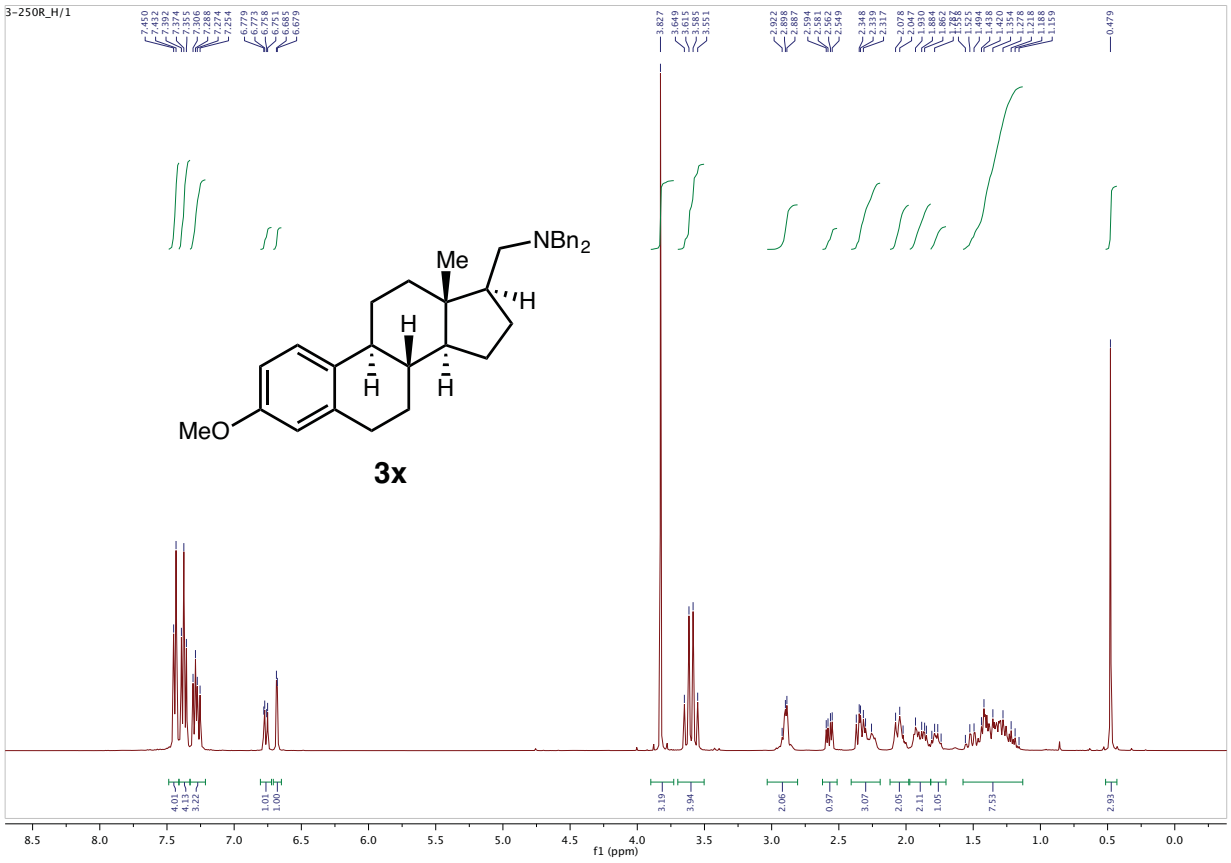

4-133-2C/1
138.43
129.21
128.51
127.34
77.48 CDCl3
77.16 CDCl3
76.84 CDCl3
73.56
66.09
59.09
59.06
55.44
37.94
MeO
HO
NBn2
3v'
f1 (ppm)

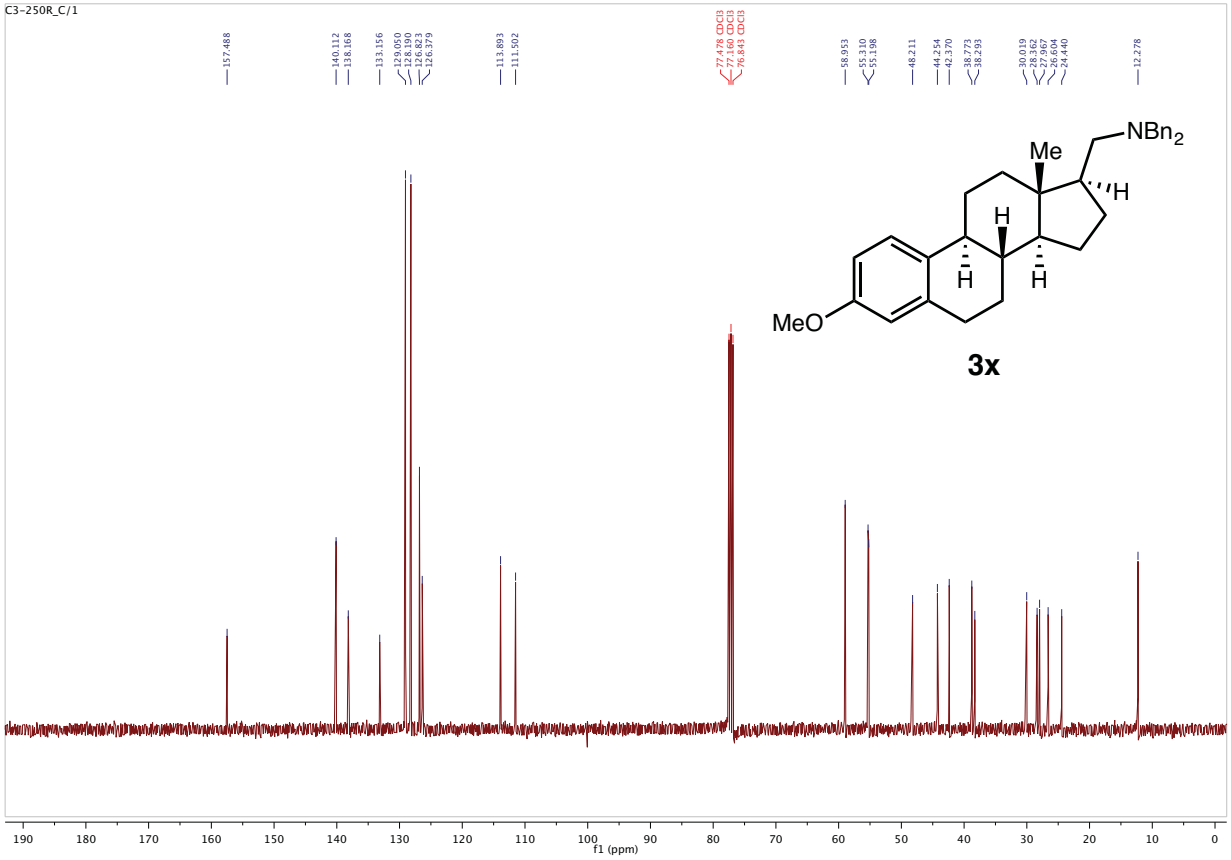

Me
H
NBn2
Me
3w
f1 (ppm)

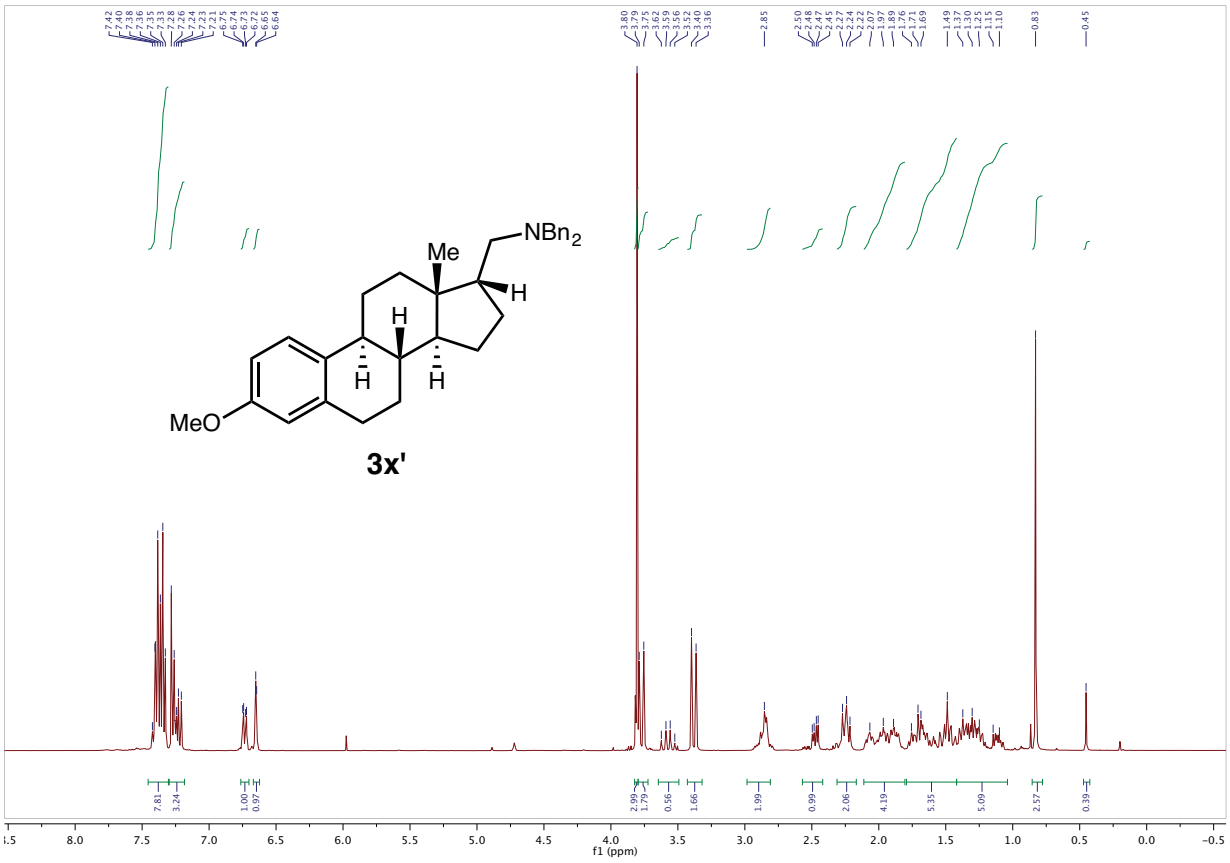

Me
H
NBn2
Me
3w
f1 (ppm)

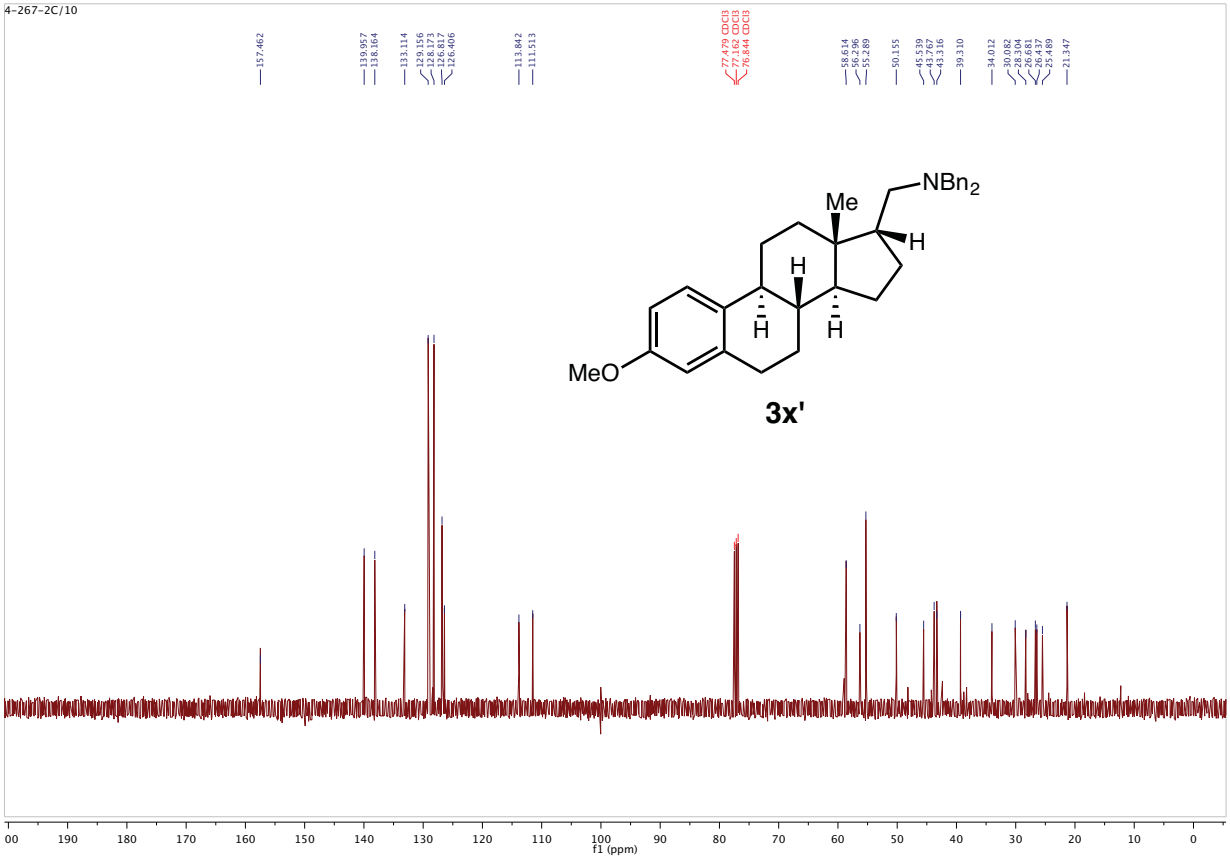

Me
H
NBn2
Me
3w'
f1 (ppm)

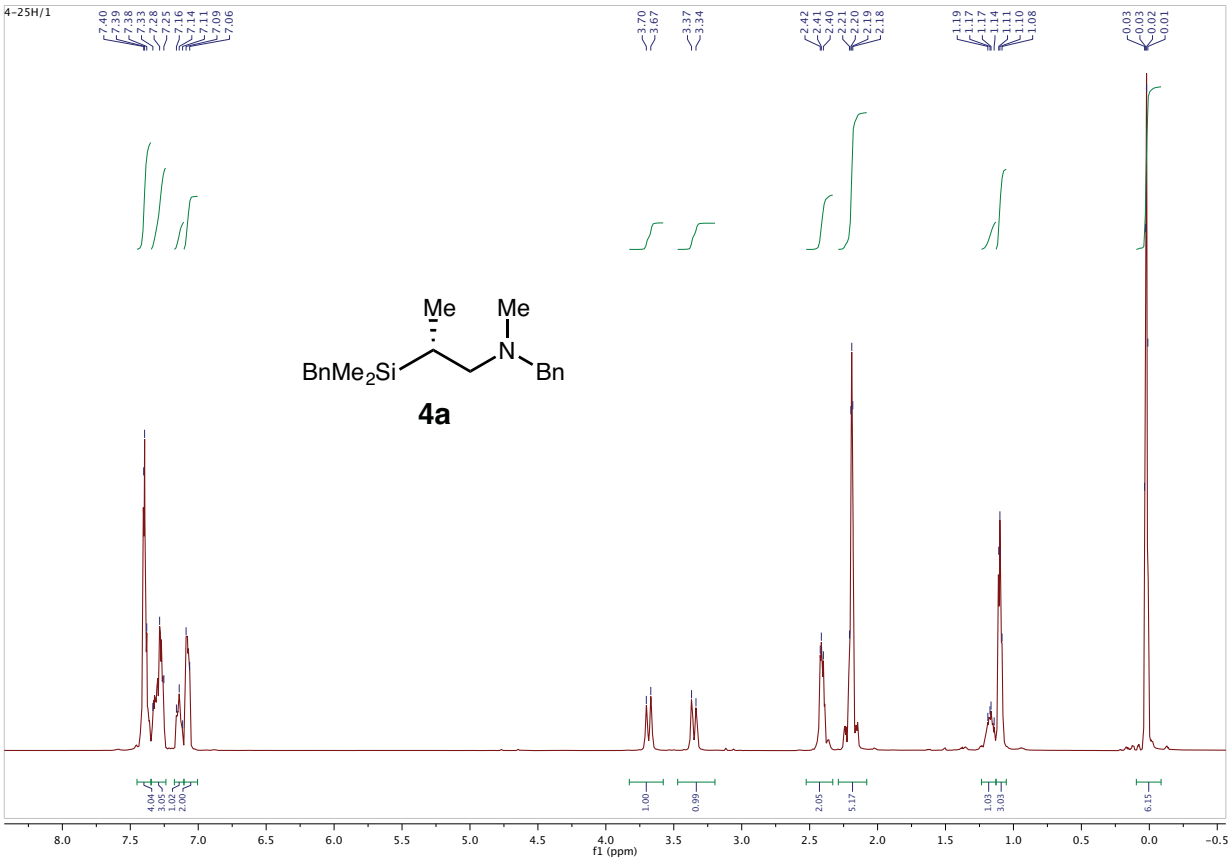

Me
H
NBn2
Me
3w'
f1 (ppm)

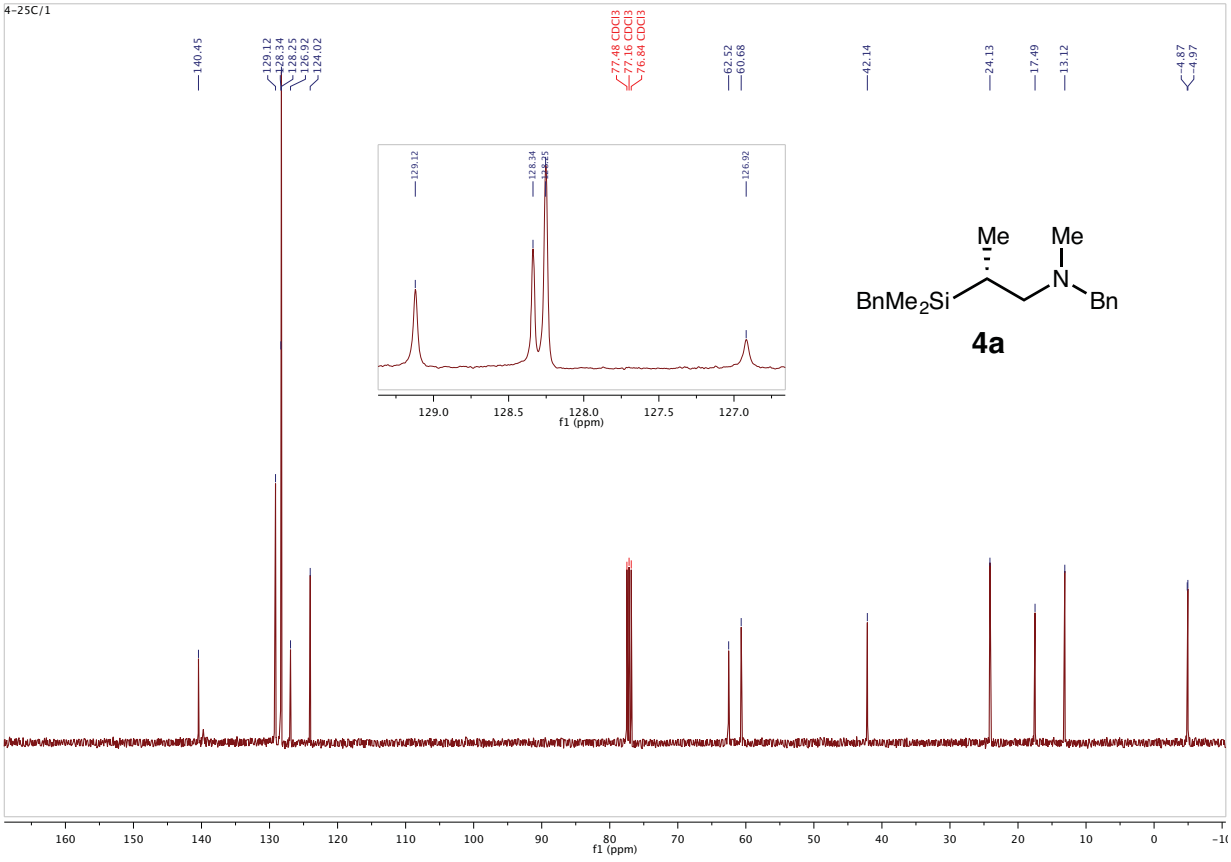

3-250R_H/1
NBn2
Me
H
H
H
MeO
3x
f1 (ppm)

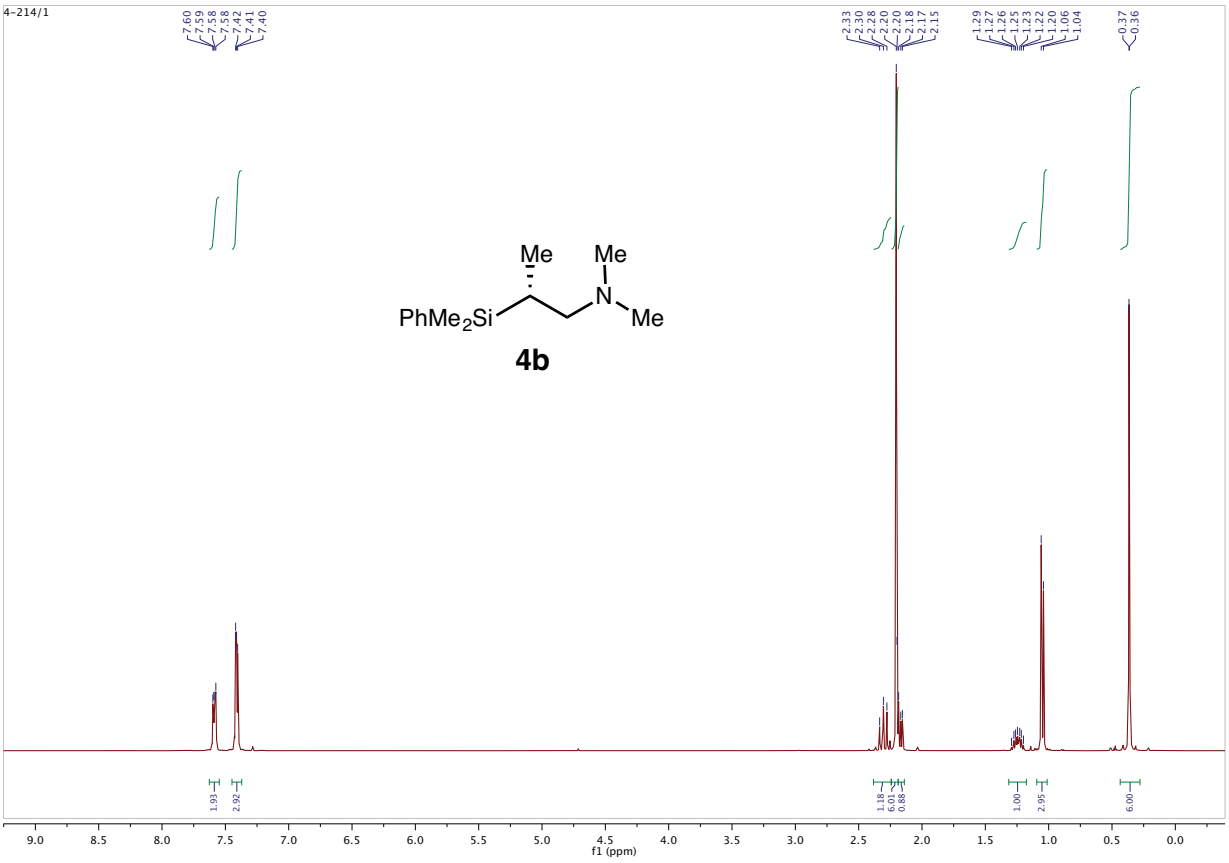

C3-250R_C/1
NBn2
Me
H
H
H
MeO
3x
f1 (ppm)

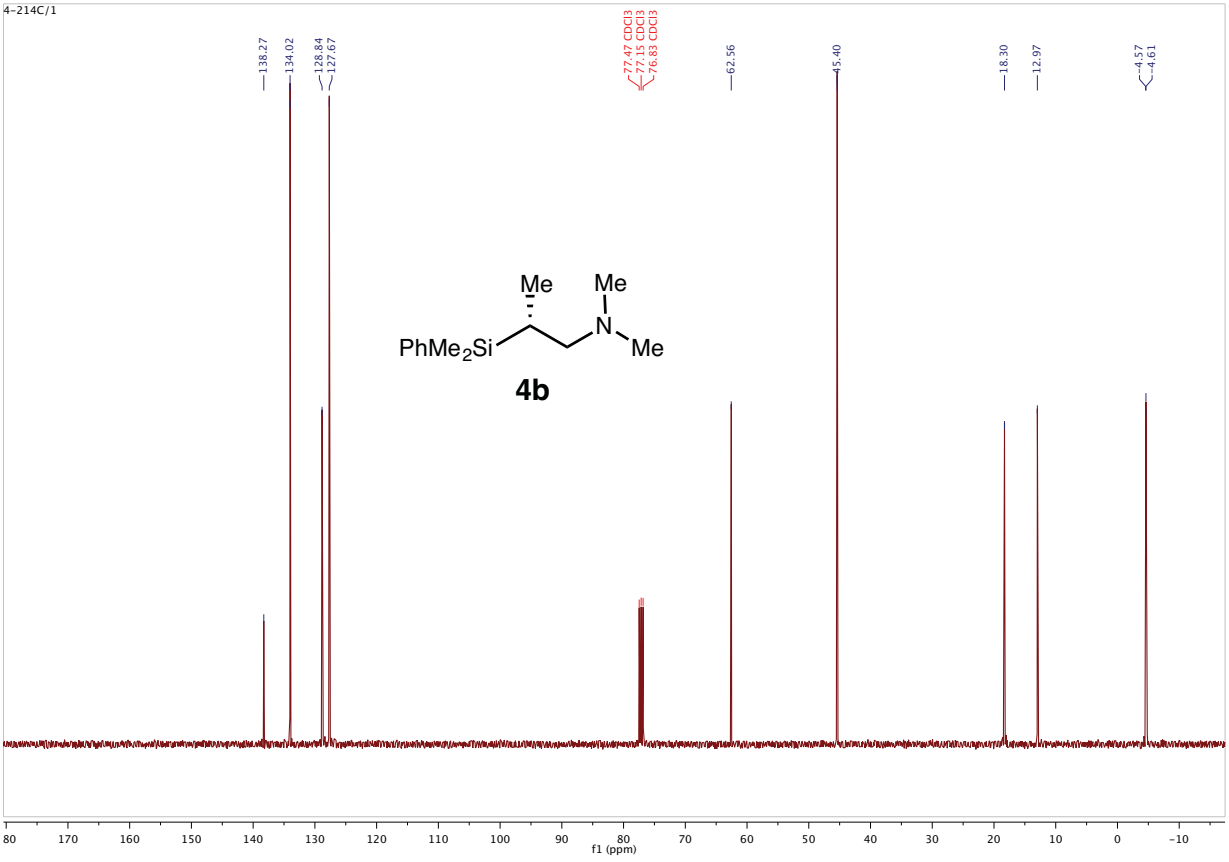

NBn2
Me
H
H
H
MeO
3x'
f1 (ppm)

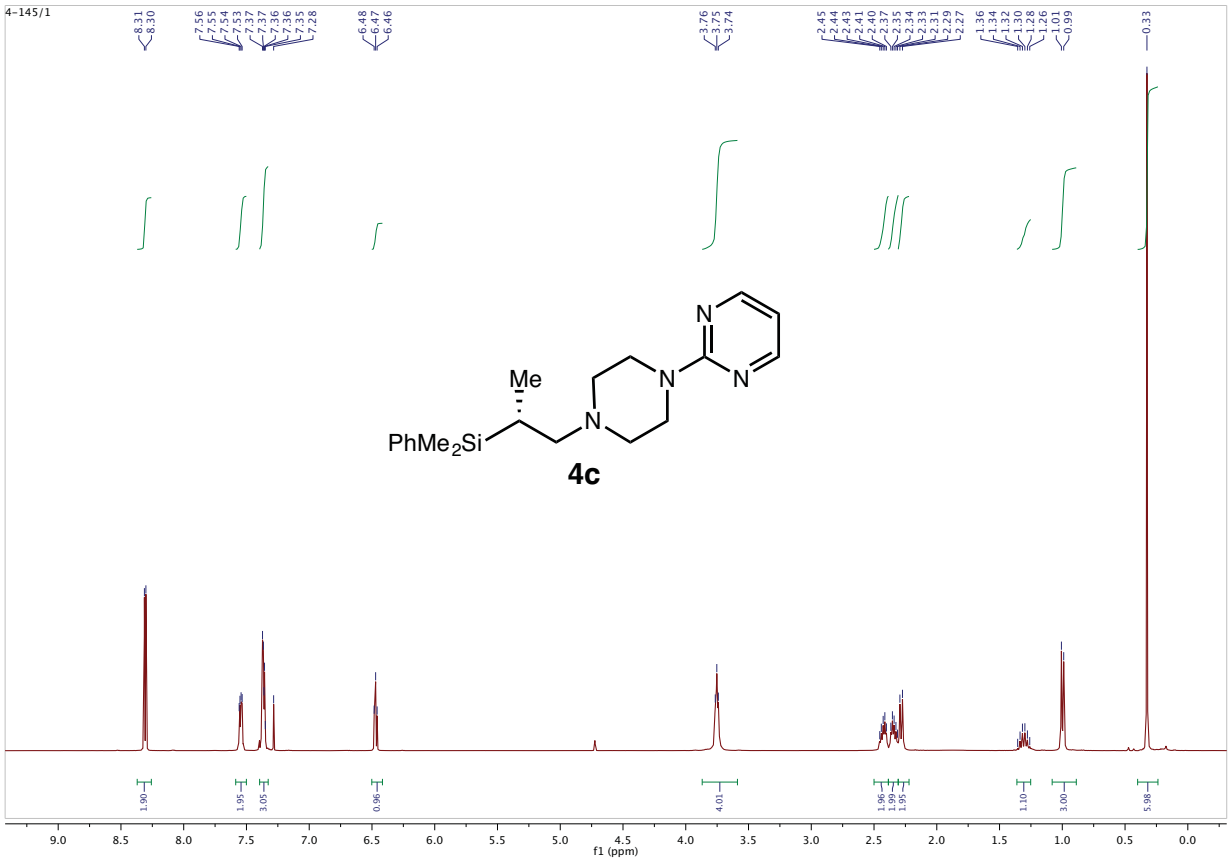

4-267-2C/10
NBn2
Me
H
H
H
MeO
3x'
f1 (ppm)

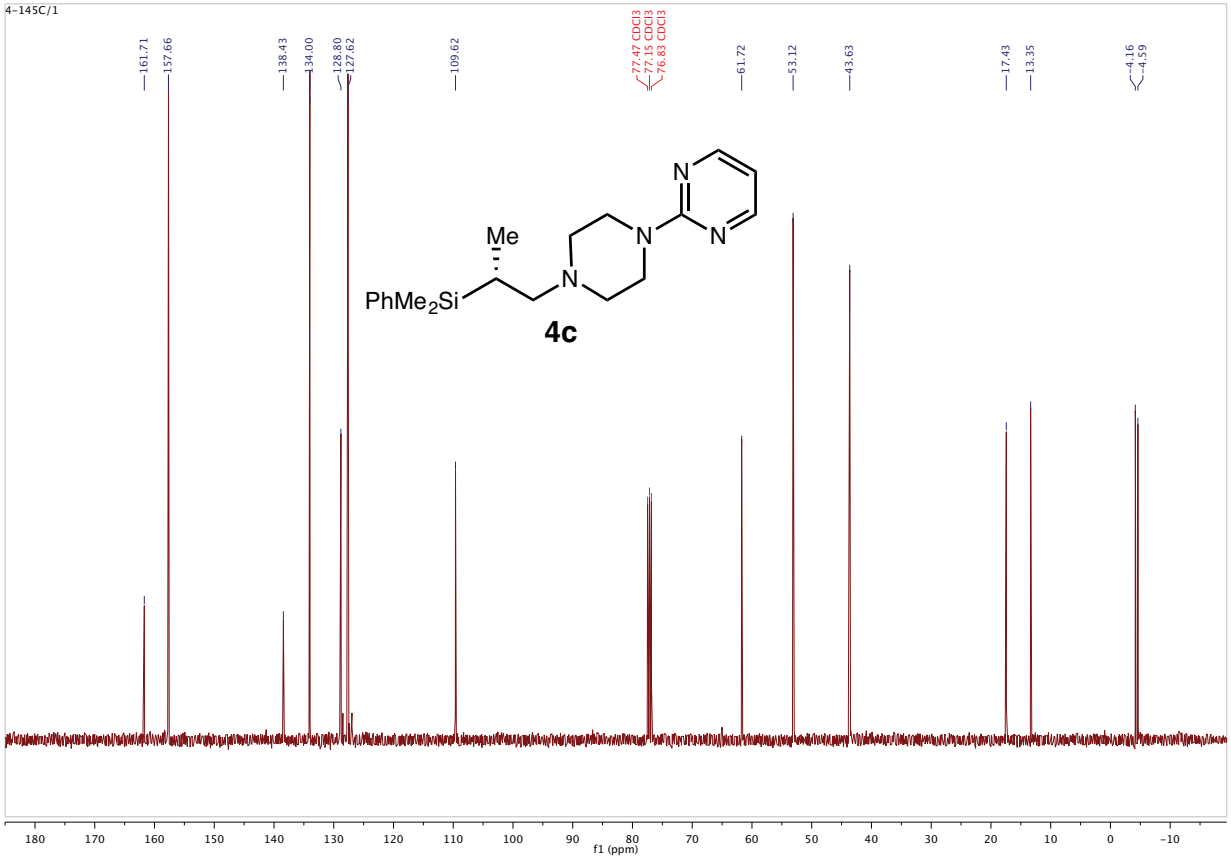

4-25H/1
Me
Me
N
BnMe2Si
Bn
4a
f1 (ppm)

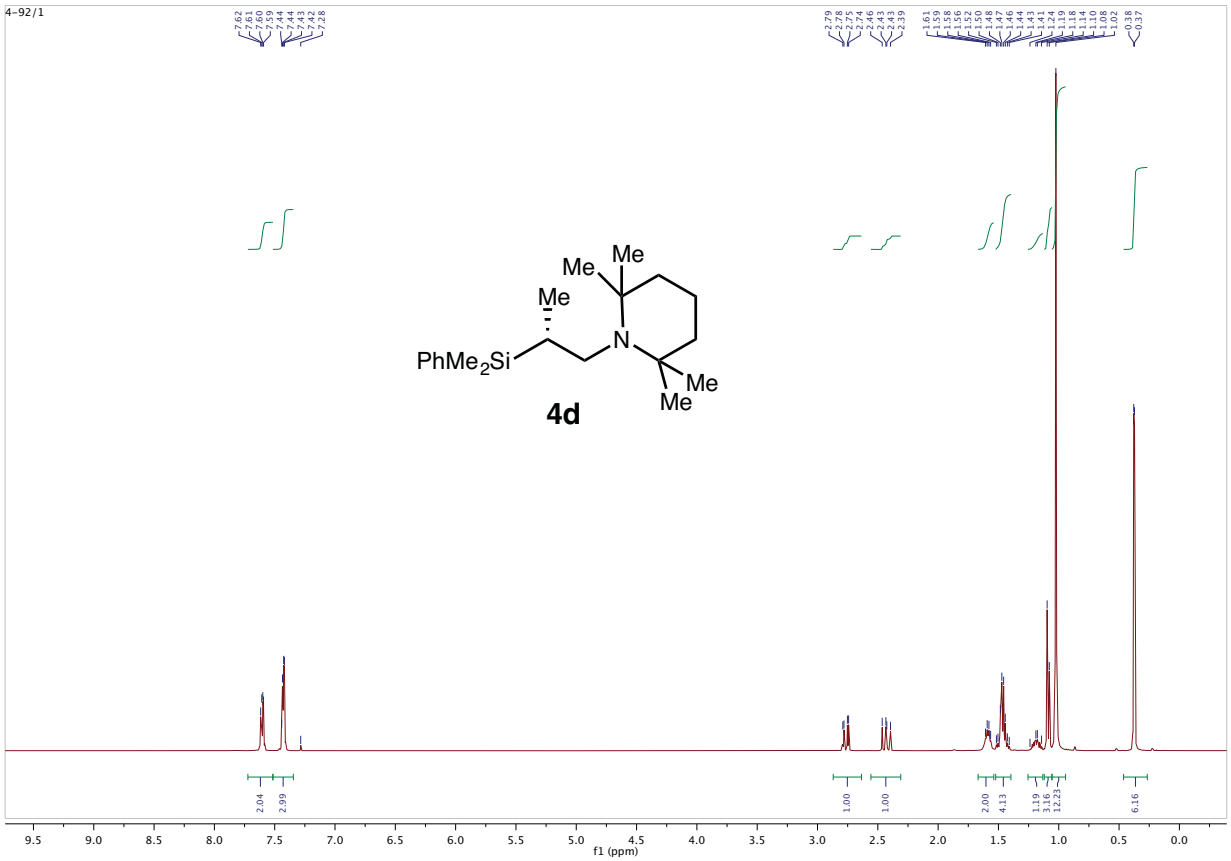

4-25C/1
140.45
129.12
128.34
128.25
126.92
124.02
77.48 CDCl3
77.16 CDCl3
76.84 CDCl3
62.52
60.68
42.14
24.13
17.49
13.12
-4.87
-4.97
Me
Me
N
BnMe2Si
Bn
4a
f1 (ppm)

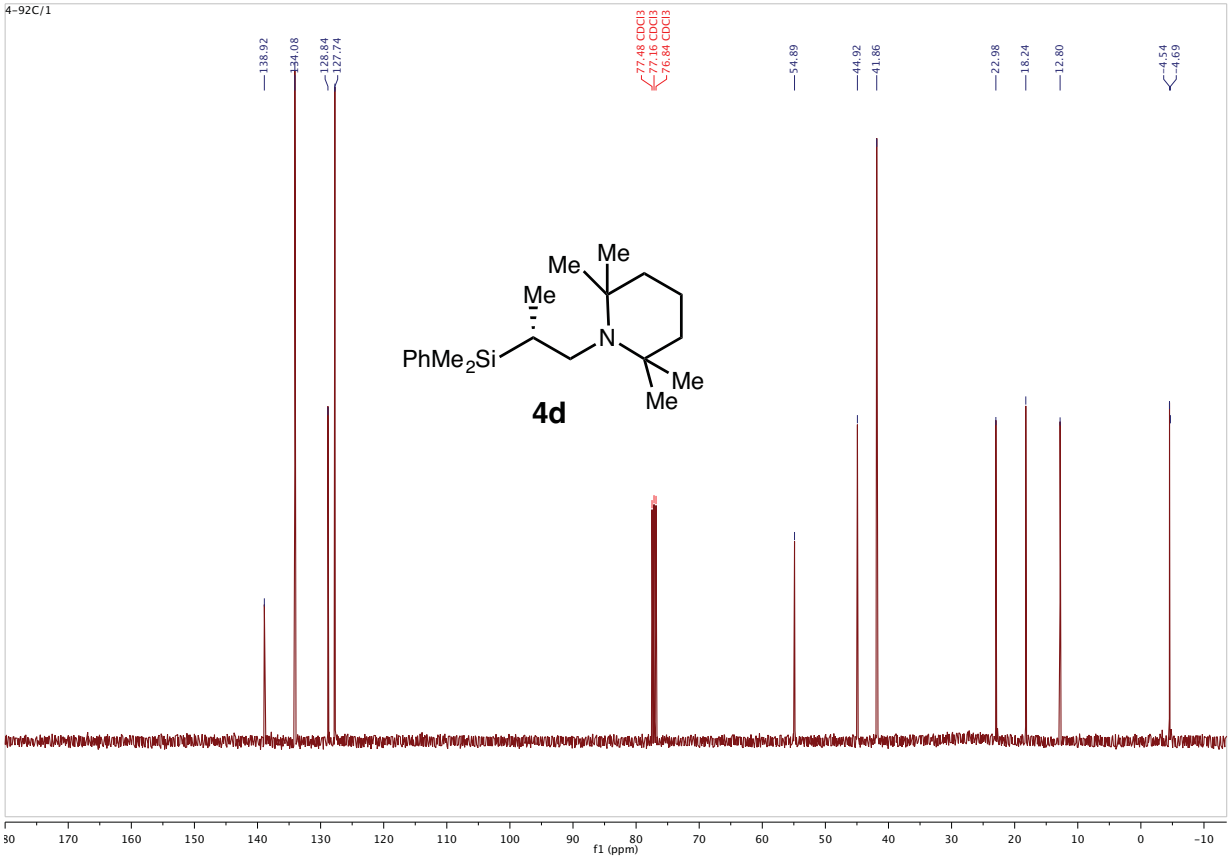

4-214/1
7.60
7.59
7.58
7.58
7.42
7.41
7.40
2.33
2.30
2.28
2.20
2.20
2.18
2.17
2.15
1.29
1.27
1.26
1.25
1.23
1.22
1.20
1.06
1.04
0.37
0.36
Me
Me
PhMe2Si
N
Me
4b
1.93
2.92
1.18
6.01
0.88
1.00
2.95
6.00
f1 (ppm)

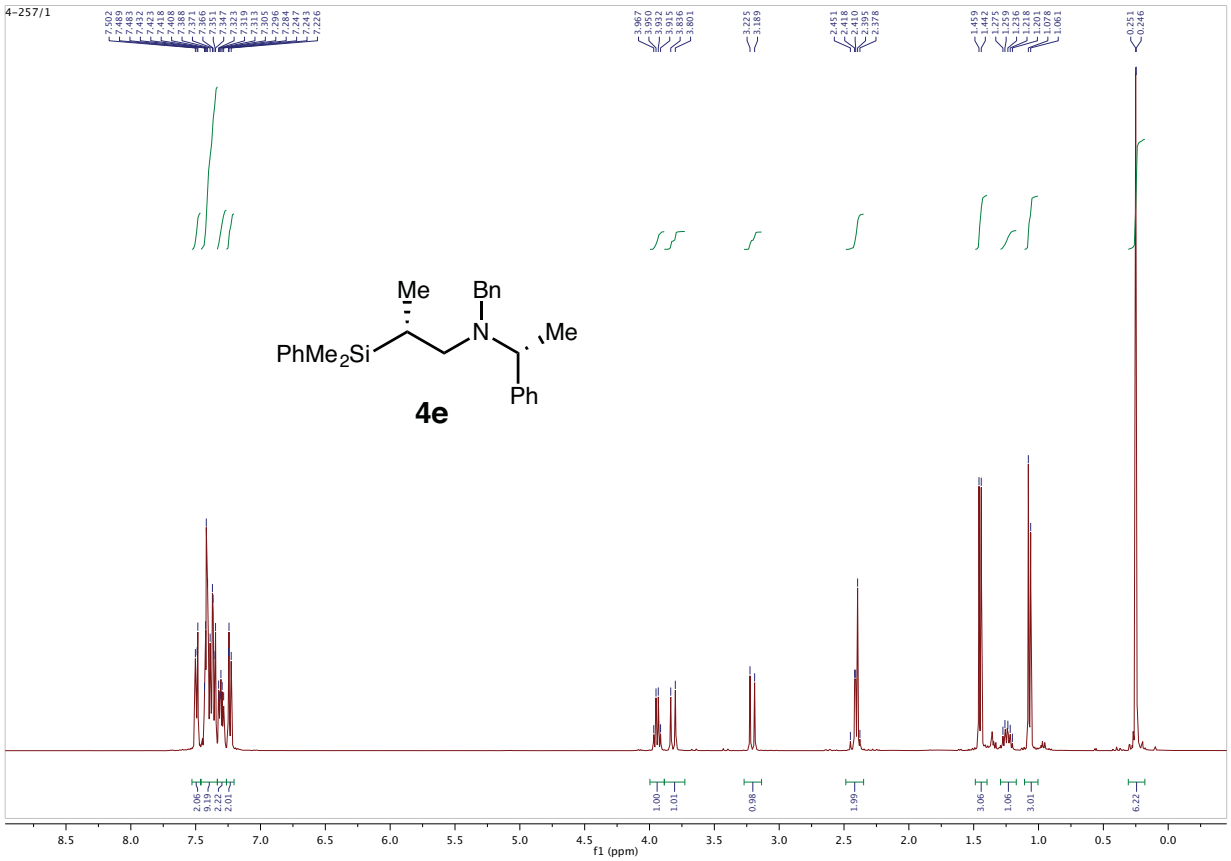

4-214C/1
138.27
134.02
128.84
127.67
77.47 CDCl3
77.15 CDCl3
76.83 CDCl3
62.56
45.40
18.30
12.97
-4.57
-4.61
Me
Me
PhMe2Si
N
Me
4b
f1 (ppm)

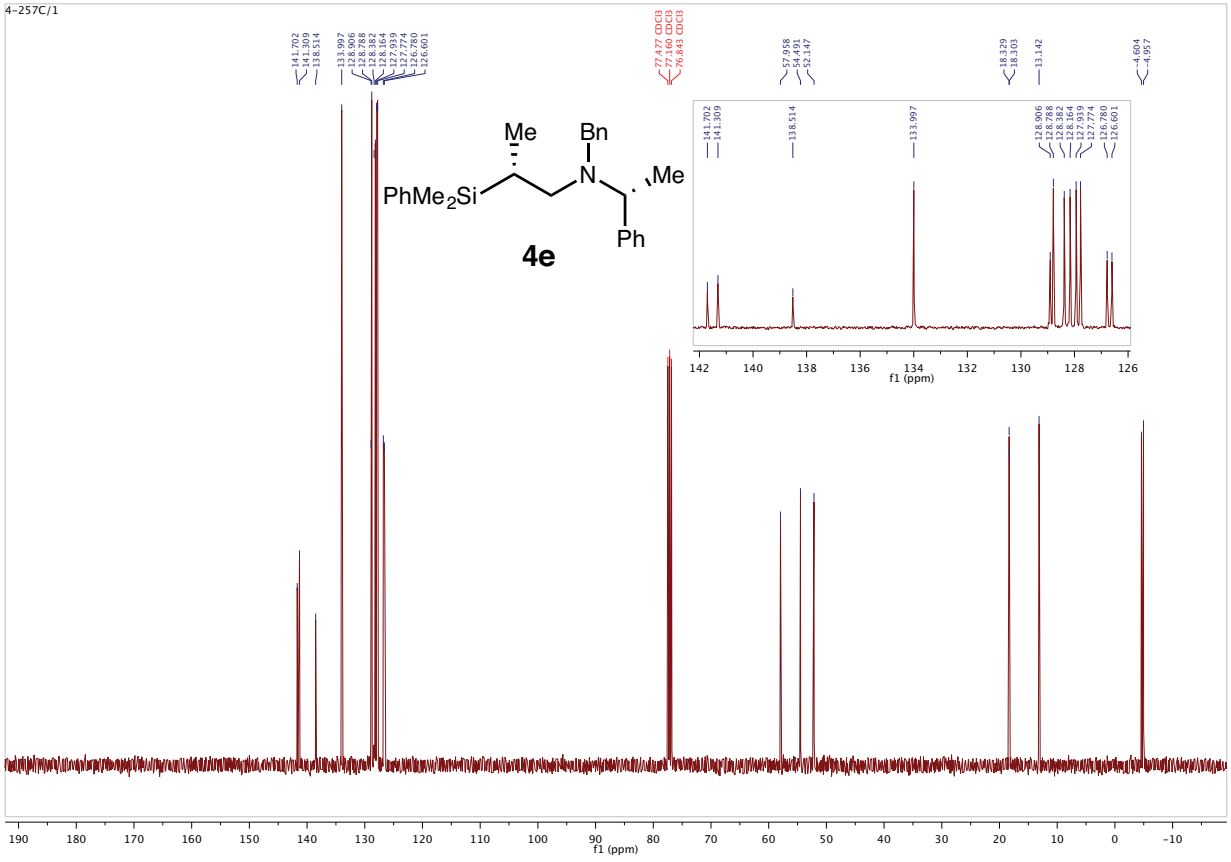

4-145/1
8.31
8.30
7.56
7.55
7.54
7.53
7.37
7.37
7.36
7.36
7.35
7.28
6.48
6.47
6.46
3.76
3.75
3.74
2.45
2.44
2.43
2.41
2.40
2.37
2.35
2.34
2.33
2.31
2.29
2.27
1.36
1.34
1.32
1.30
1.28
1.26
1.01
0.99
0.33
Me
PhMe2Si
N
N
N
N
4c
1.90
1.95
3.05
0.96
4.01
1.96
1.98
1.95
1.10
3.00
5.98
f1 (ppm)

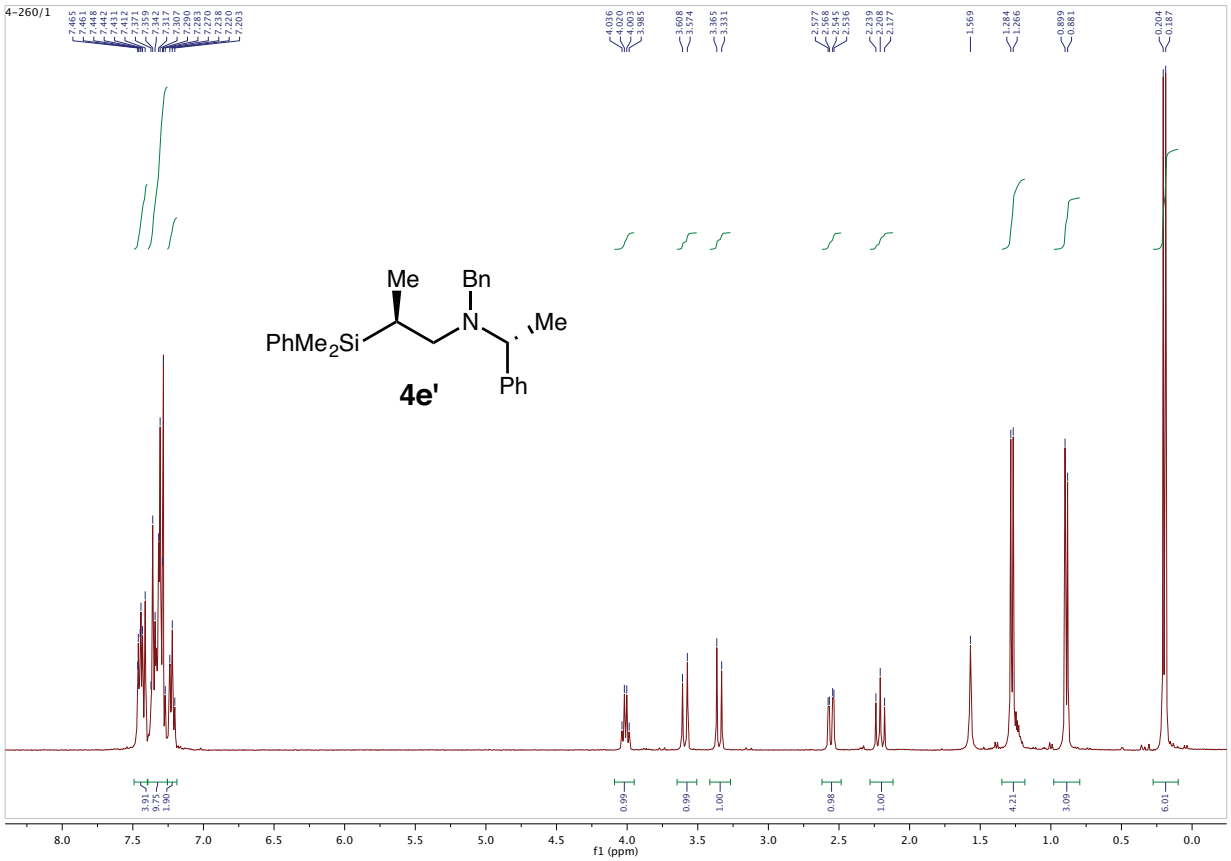

4-145C/1
161.71
157.66
138.43
134.00
128.80
127.62
109.62
77.47 CDCl3
77.15 CDCl3
76.83 CDCl3
61.72
53.12
43.63
17.43
13.35
4.16
-4.59
Me
PhMe2Si
N
N
N
N
4c
f1 (ppm)

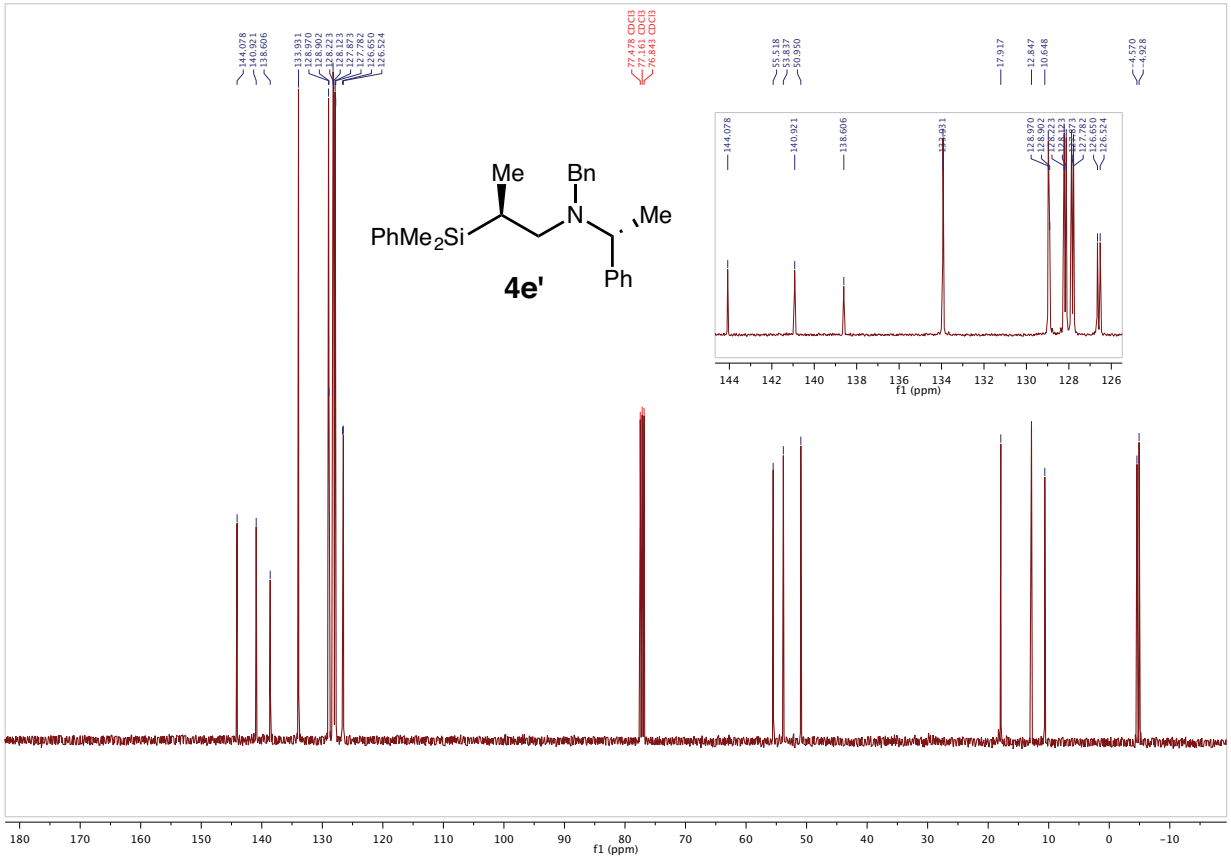

4-92/1
Me
Me
Me
PhMe2Si
N
Me
Me
4d
f1 (ppm)

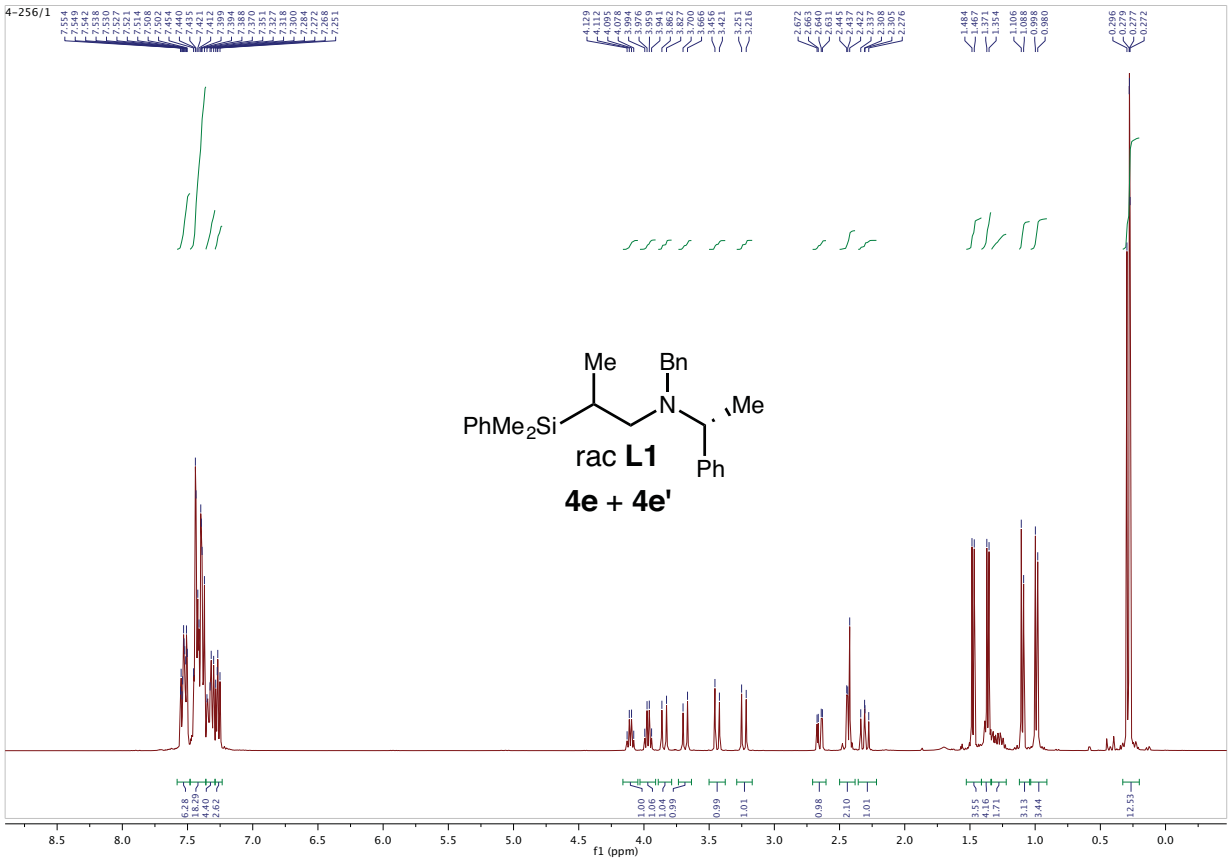

4-92C/1
138.92
134.08
128.84
127.74
77.48 CDCl3
77.16 CDCl3
76.84 CDCl3
54.89
44.92
41.86
22.98
18.24
12.80
-4.54
-4.69
Me
Me
Me
PhMe2Si
N
Me
Me
4d
f1 (ppm)

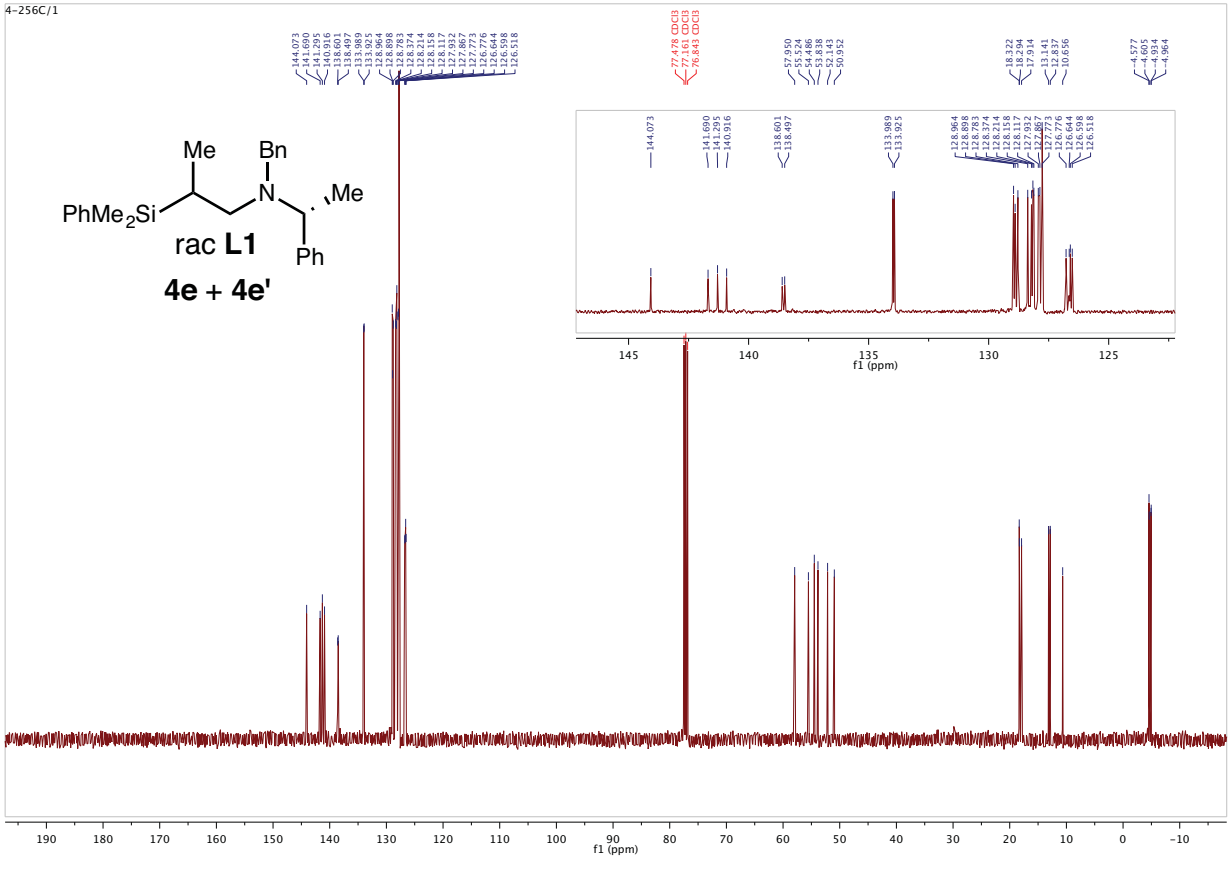

4-257/1
Me
Bn
N
Me
PhMe2Si
Ph
4e
f1 (ppm)

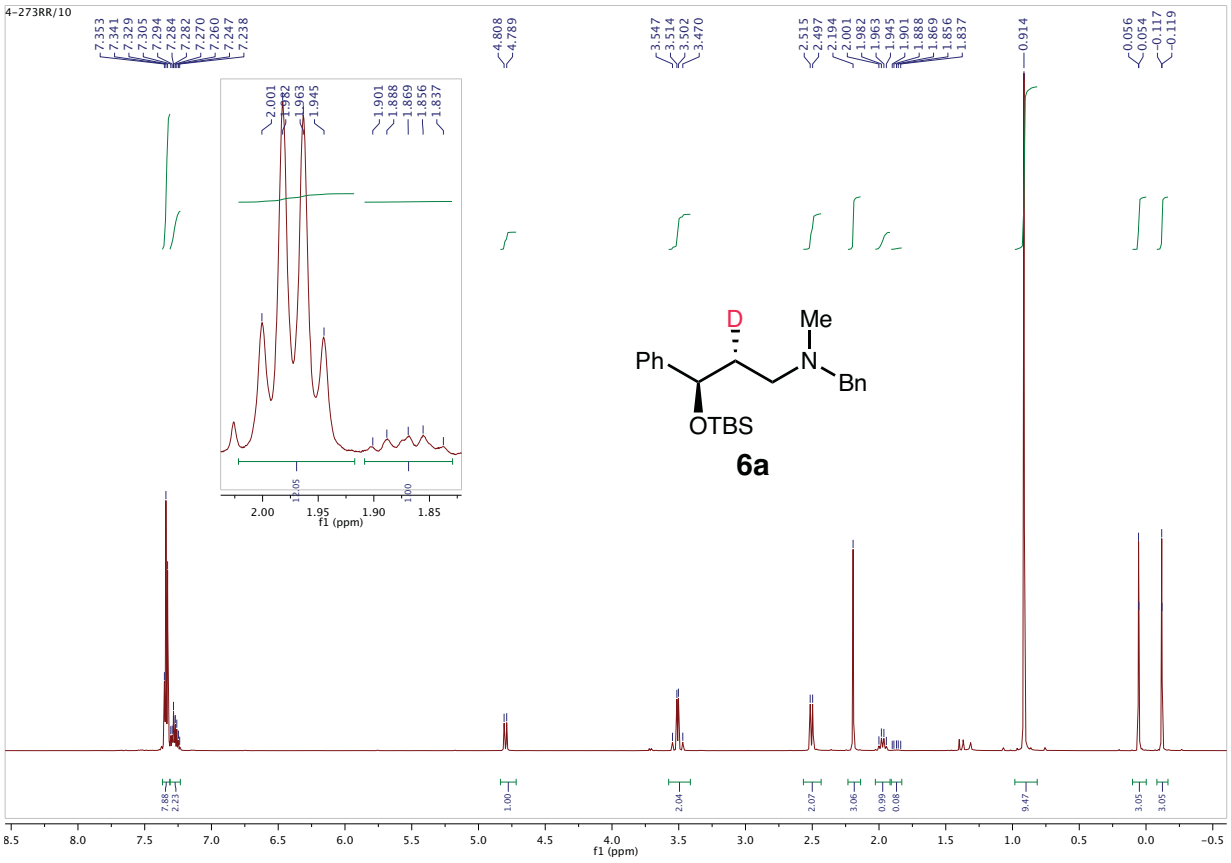

4-257C/1
Me
Bn
N
Me
PhMe2Si
Ph
4e
f1 (ppm)

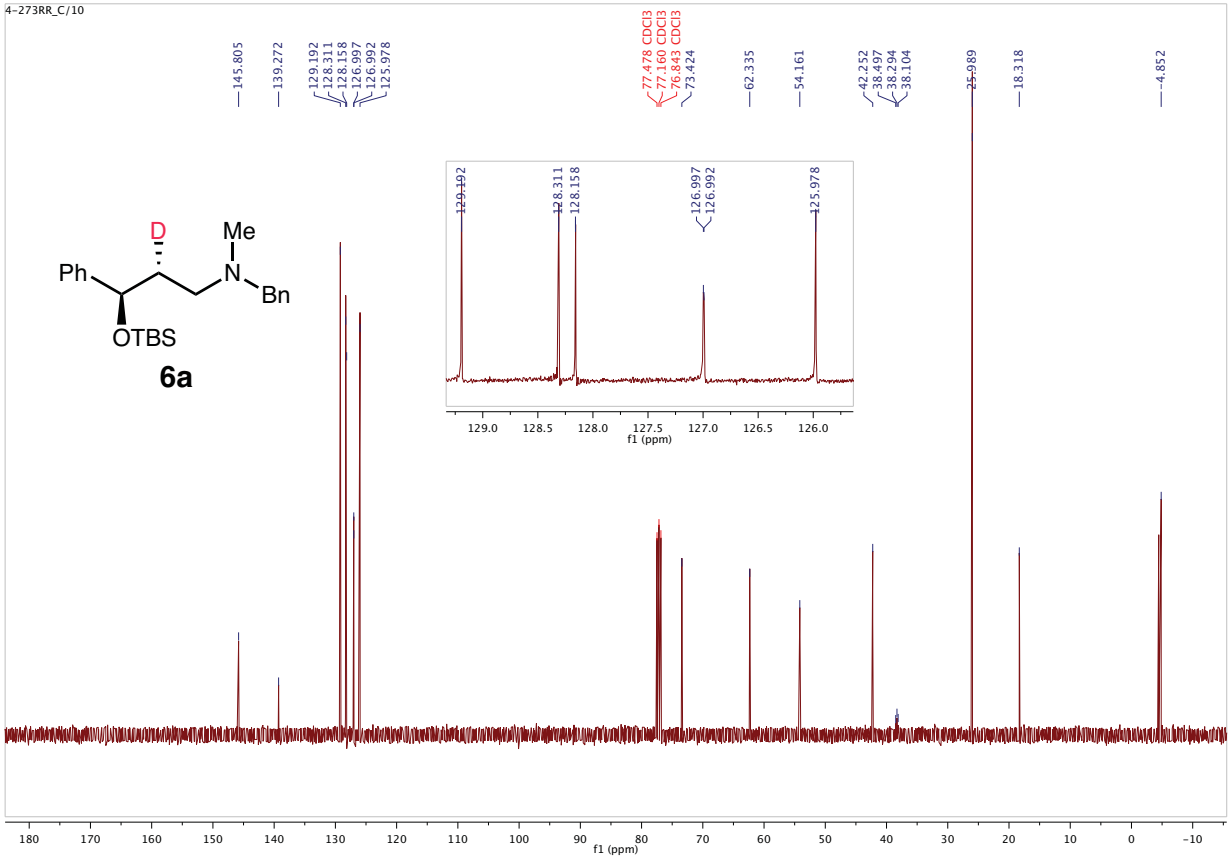

4-260/1
Me
Bn
PhMe2Si
N
Me
Ph
4e'
f1 (ppm)

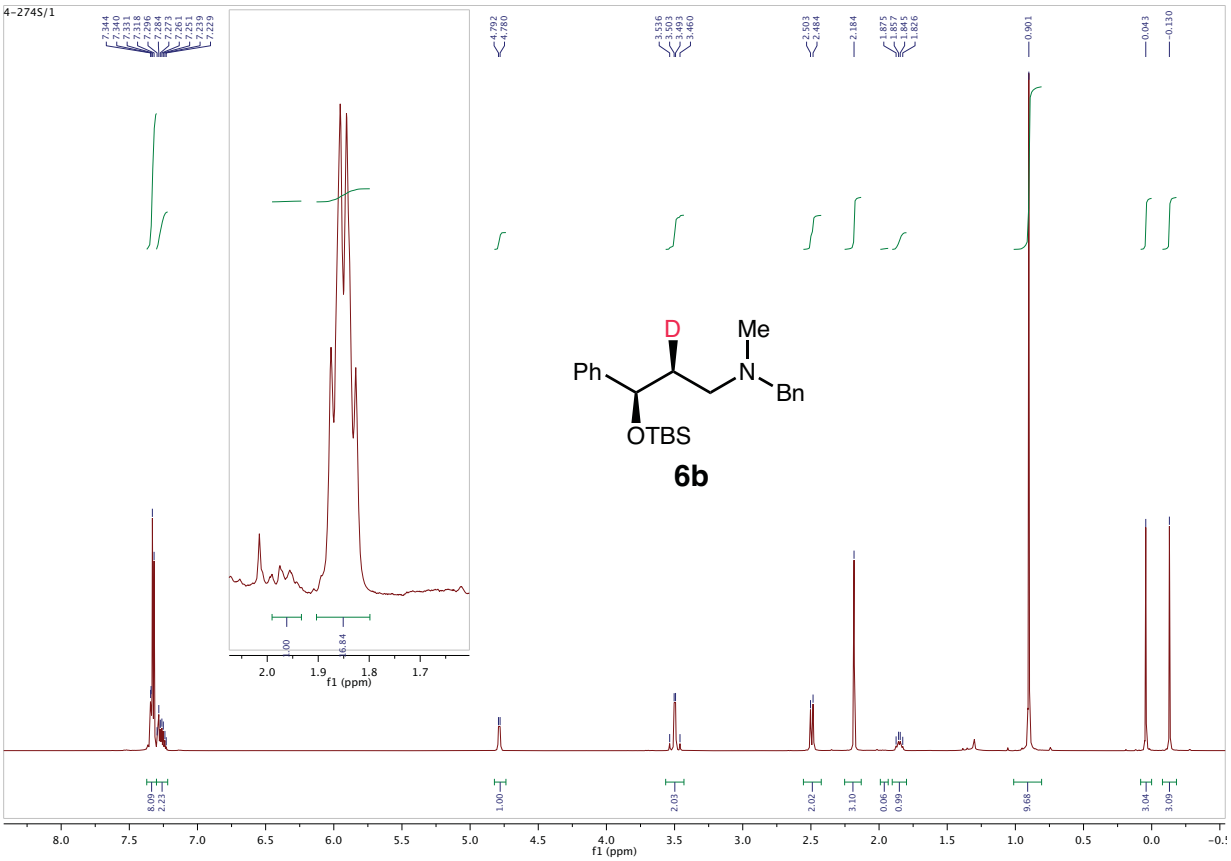

Me
Bn
PhMe2Si
N
Me
Ph
4e'
f1 (ppm)

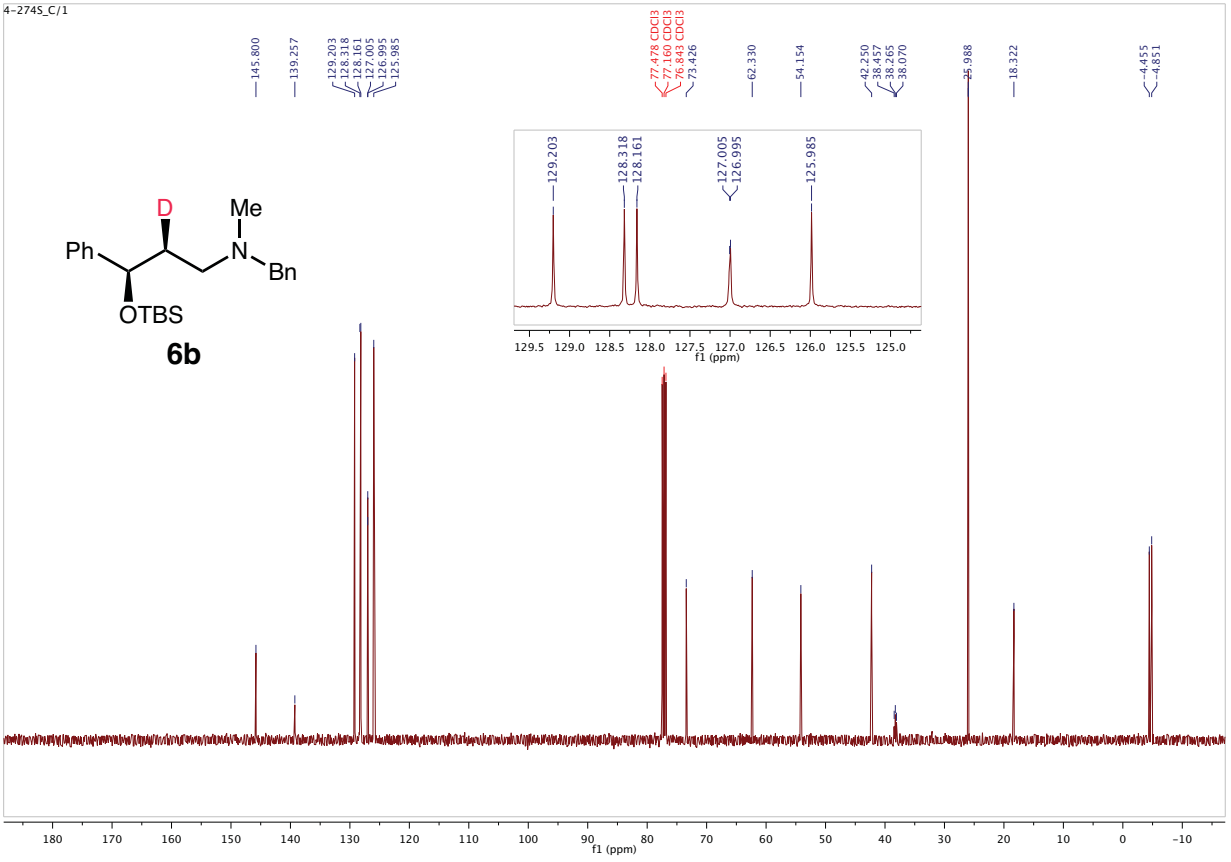

4-256/1
Me
Bn
PhMe2Si
N
Me
Ph
rac L1
4e + 4e'
f1 (ppm)

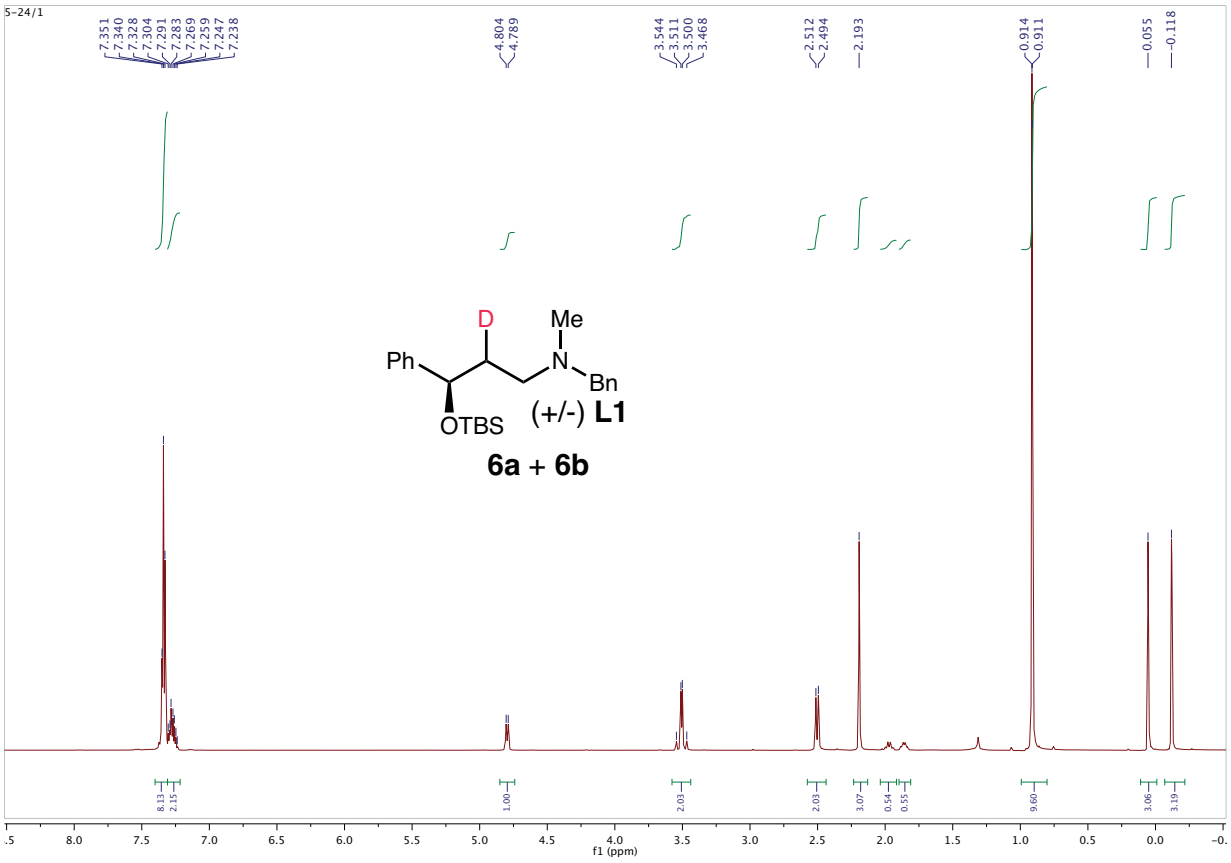

4-256C/1
Me
Bn
PhMe2Si
N
Me
Ph
rac L1
4e + 4e'
f1 (ppm)

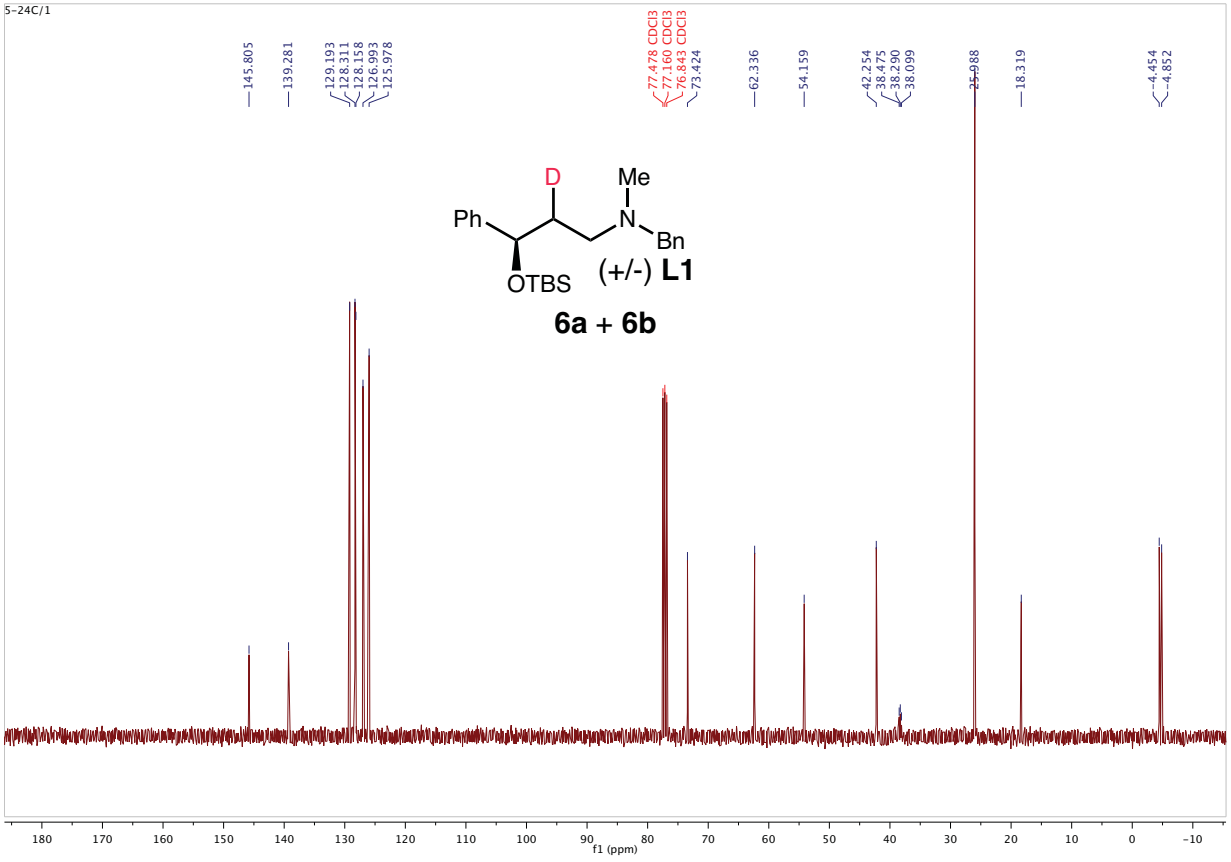

4-273RR/10
7.353
7.341
7.329
7.305
7.294
7.284
7.282
7.270
7.260
7.247
7.238
4.808
4.789
3.547
3.514
3.502
3.470
2.515
2.497
2.194
2.001
1.982
1.963
1.945
1.901
1.888
1.869
1.856
1.837
0.914
0.056
0.054
-0.117
-0.119
D
Me
Ph
N
Bn
OTBS
6a
f1 (ppm)

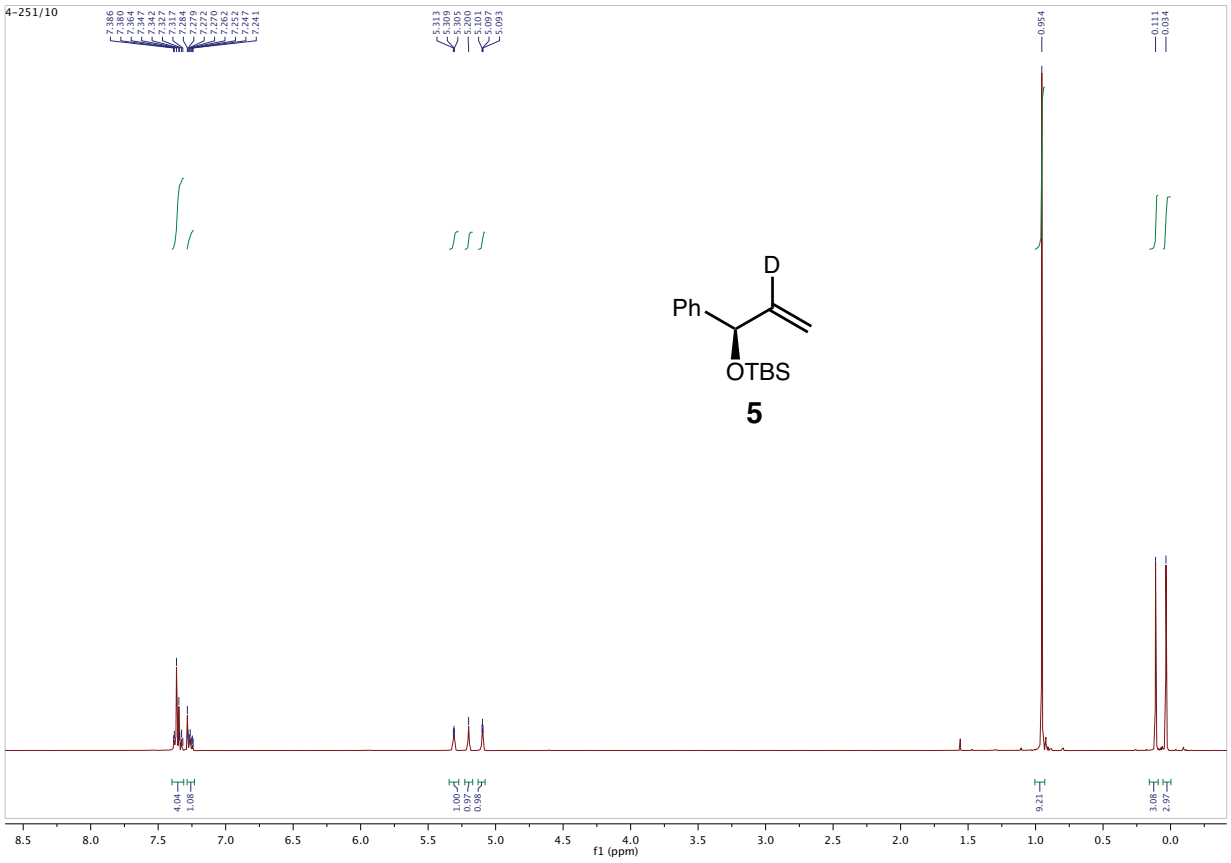

4-273RR_C/10
145.805
139.272
129.192
128.311
128.158
126.997
126.992
125.978
77.478 CDCl3
77.160 CDCl3
76.843 CDCl3
73.424
62.335
54.161
42.252
38.497
38.294
38.104
25.989
18.318
-4.852
D
Me
Ph
N
Bn
OTBS
6a
f1 (ppm)

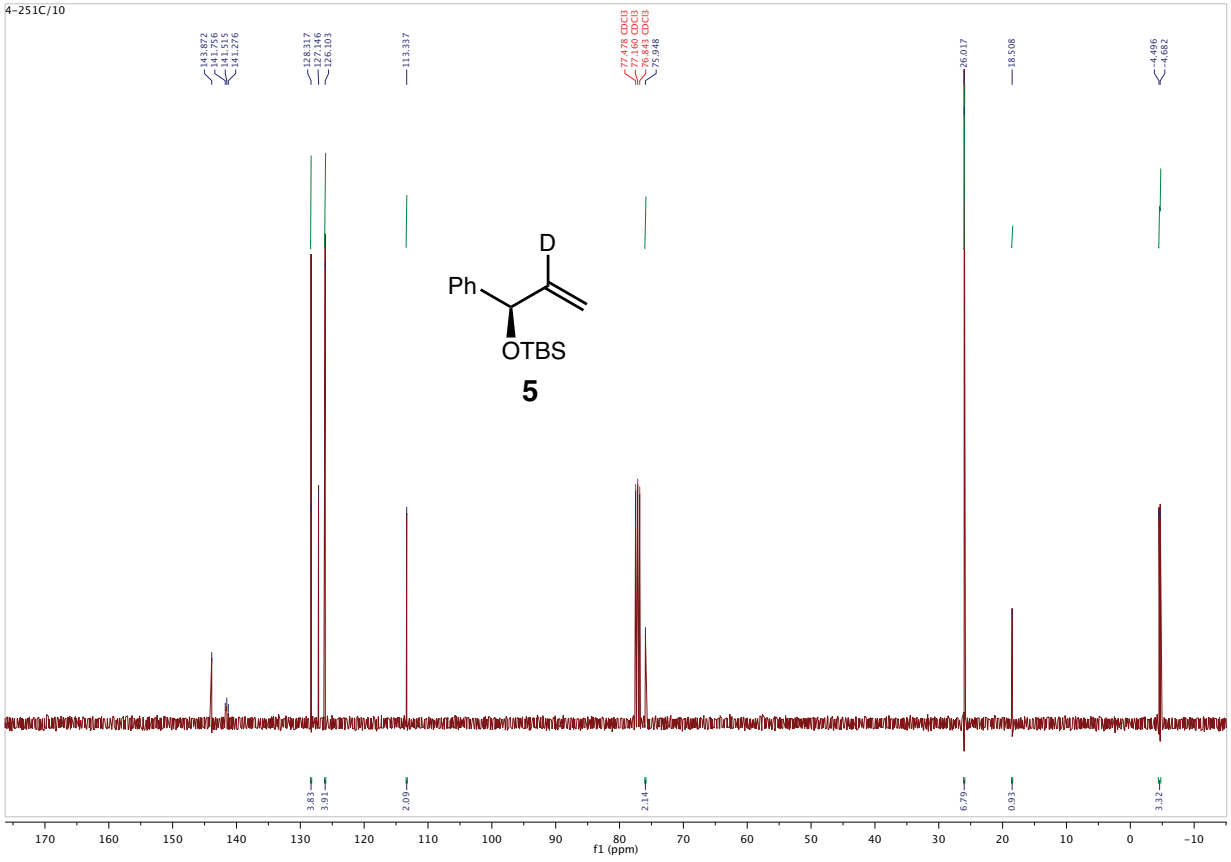

4-274S/1
D
Me
Ph
N
Bn
OTBS
6b
f1 (ppm)

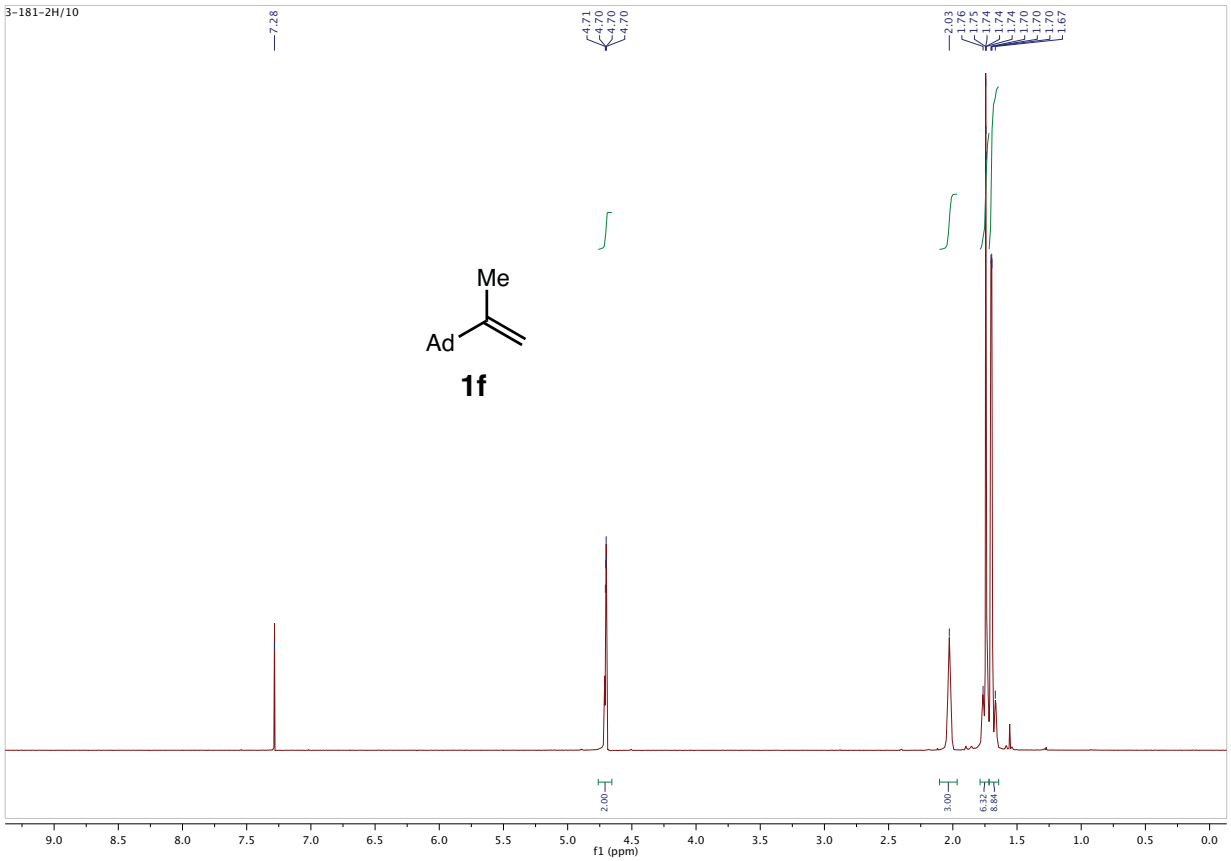

4-274S_C/1
D
Me
Ph
N
Bn
OTBS
6b
f1 (ppm)

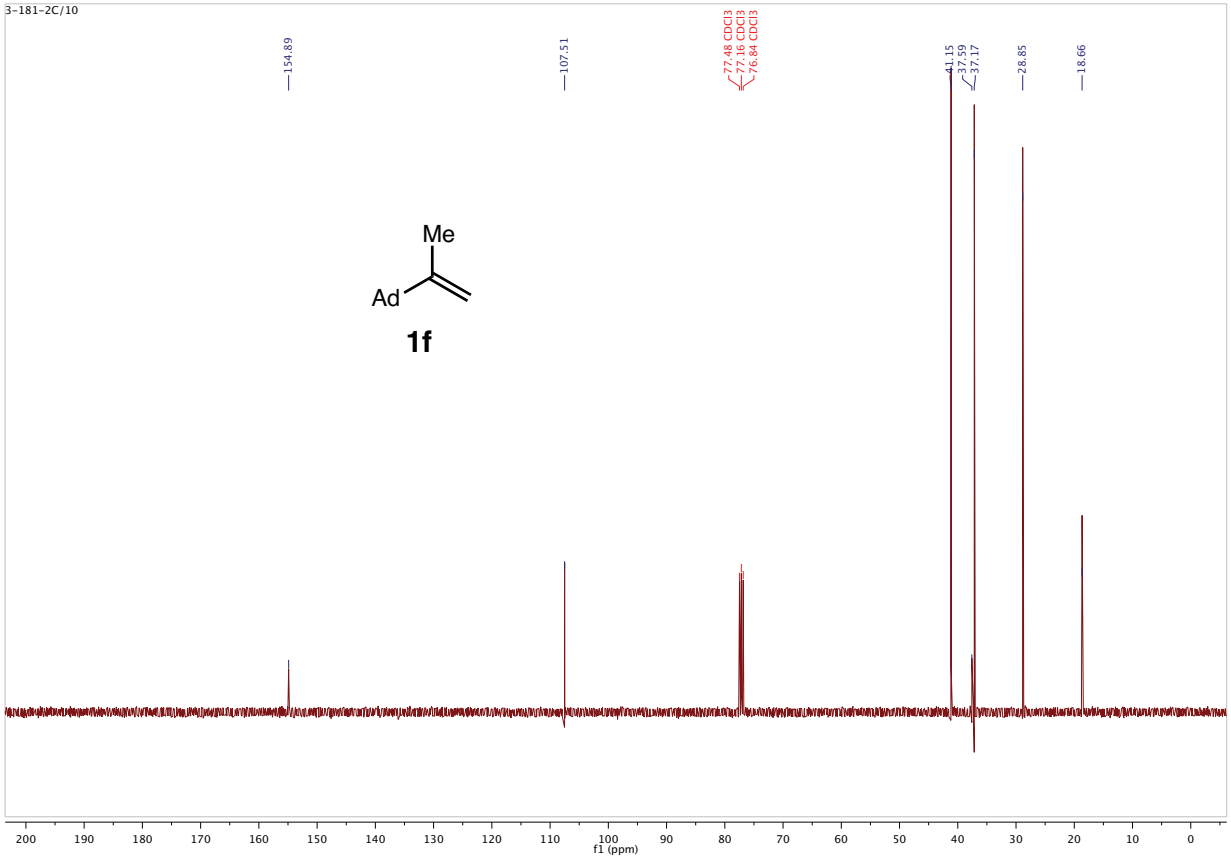

5-24/1
7.351
7.340
7.328
7.304
7.291
7.283
7.269
7.259
7.247
7.238
4.804
4.789
3.544
3.511
3.500
3.468
2.512
2.494
2.193
0.914
0.911
0.055
-0.118
D
Me
Ph
N
Bn
OTBS
(+/-) L1
6a + 6b
f1 (ppm)

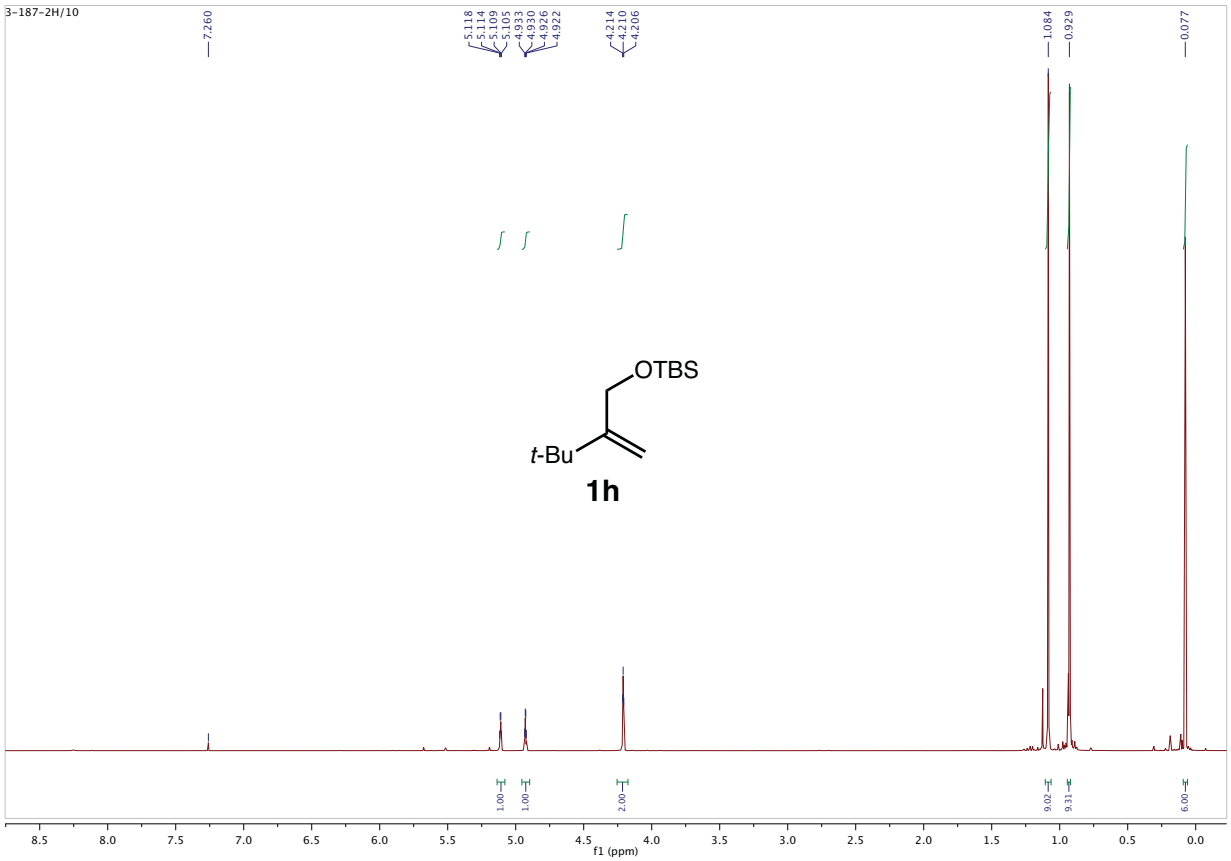

5-24C/1
145.805
139.281
129.193
128.311
128.158
126.993
125.978
77.478 CDCl3
77.160 CDCl3
76.843 CDCl3
73.424
62.336
54.159
42.254
38.475
38.290
38.099
25.988
18.319
-4.454
-4.852
D
Me
Ph
N
Bn
OTBS
(+/-) L1
6a + 6b
f1 (ppm)

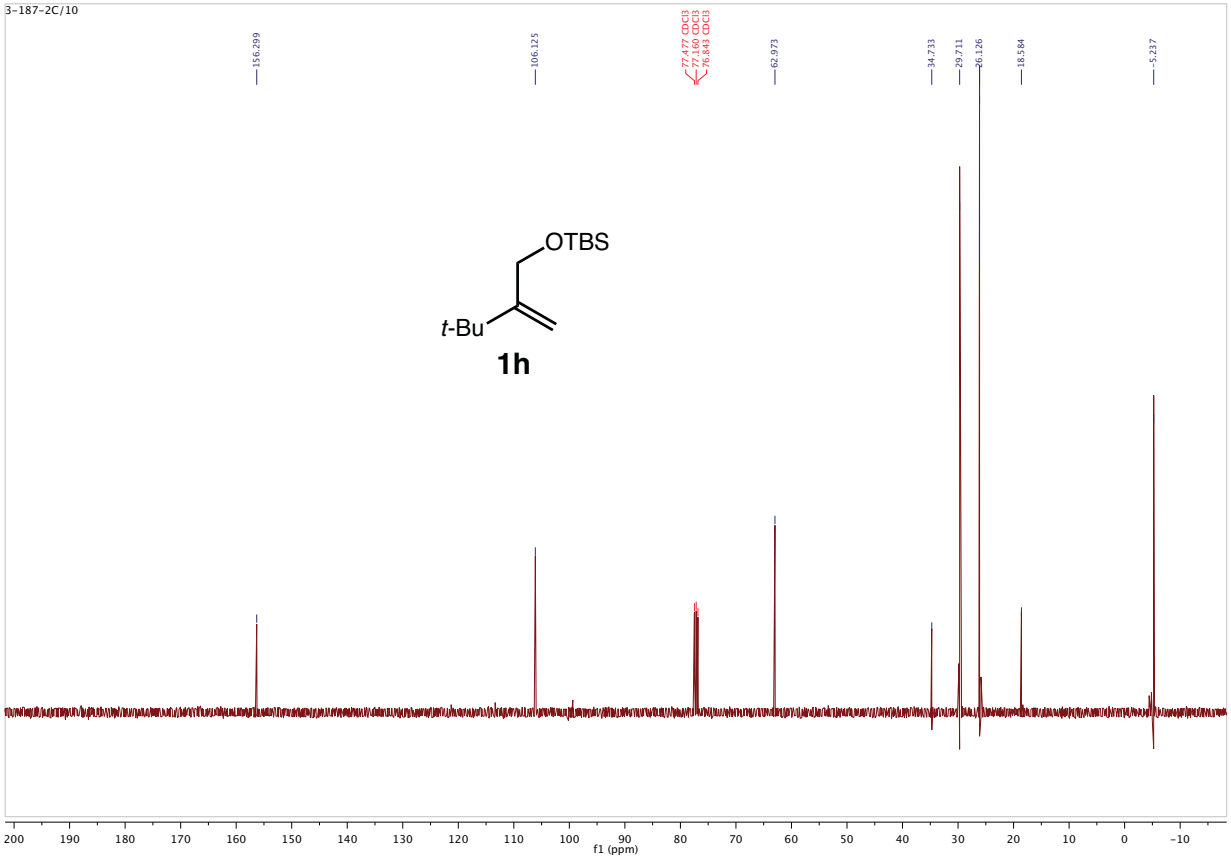

4-251/10
D
Ph
OTBS
5
f1 (ppm)

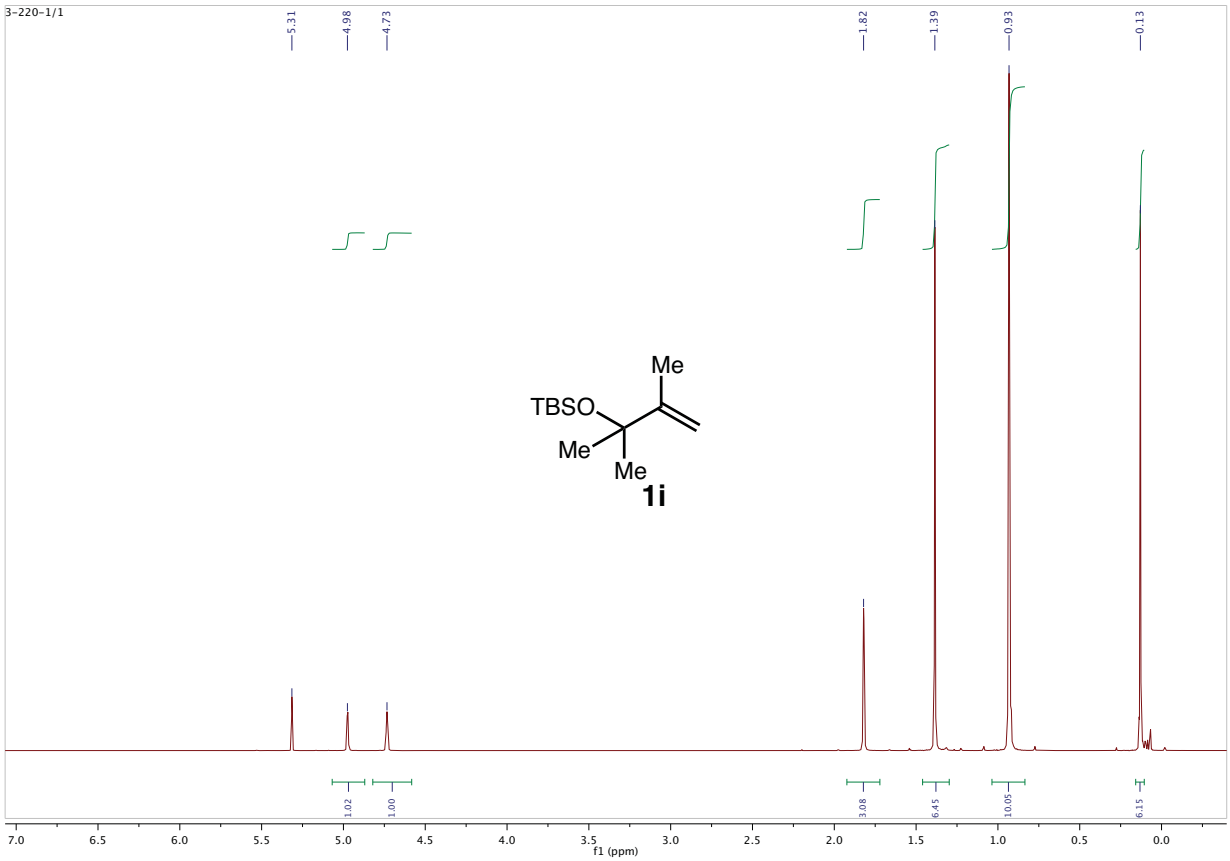

4-251C/10
D
Ph
OTBS
5
f1 (ppm)

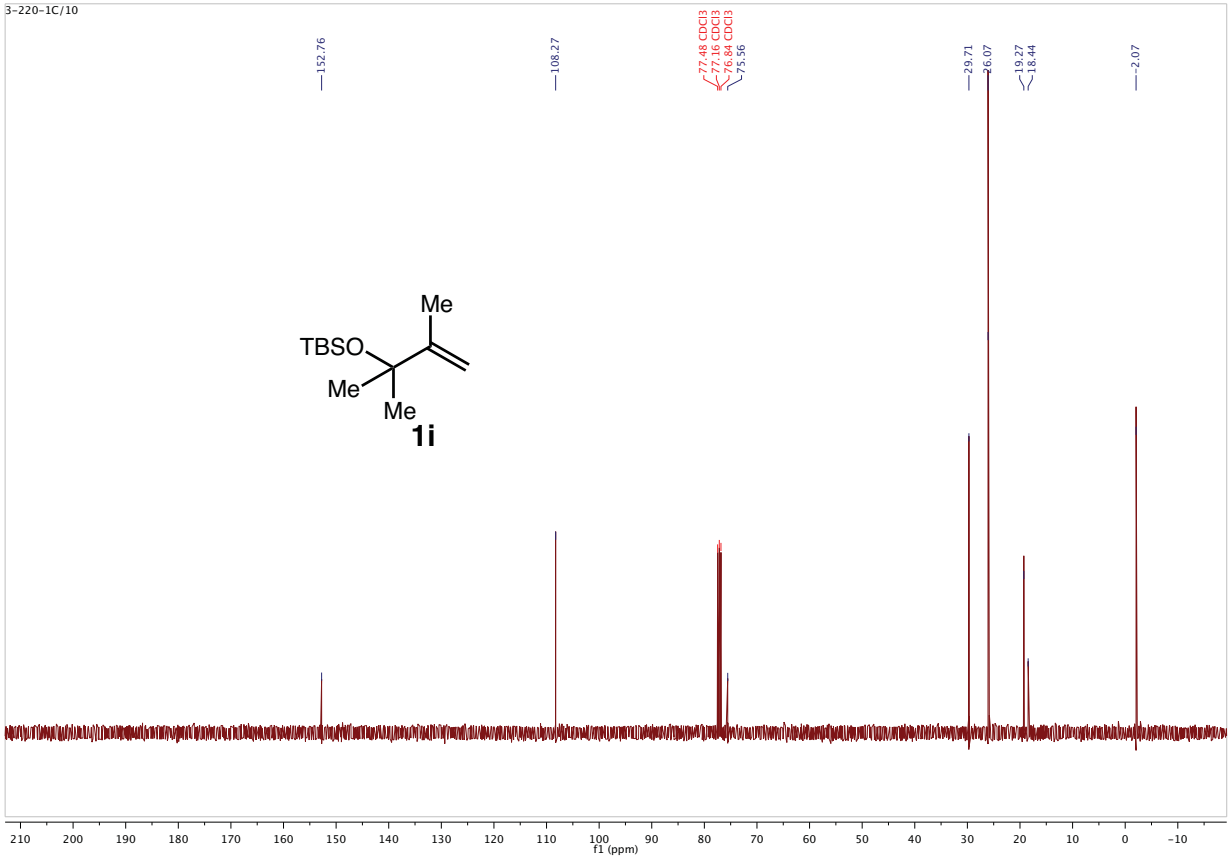

3-181-2H/10
7.28
4.71
4.70
4.70
4.70
2.03
1.76
1.75
1.74
1.74
1.74
1.70
1.70
1.70
1.67
Me
Ad
1f
2.00
3.00
6.32
8.84
f1 (ppm)

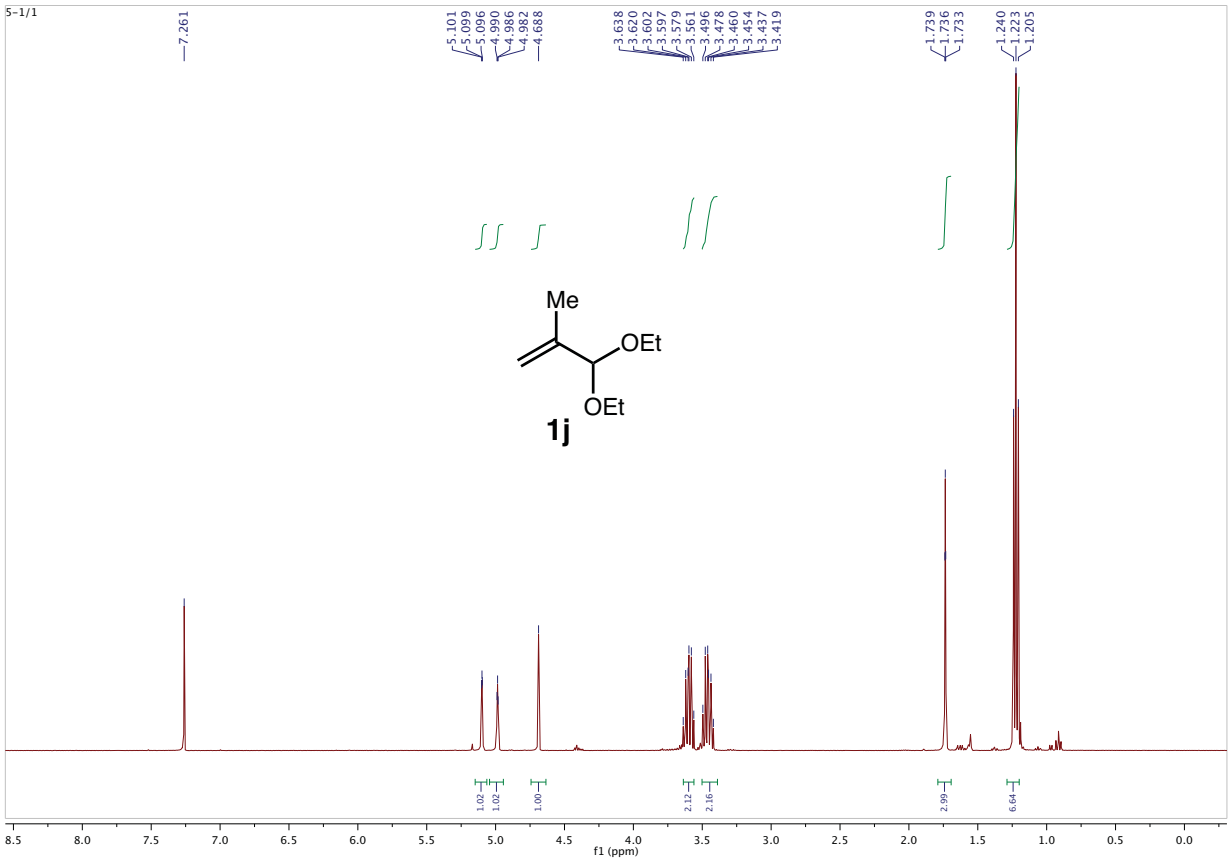

3-181-2C/10
154.89
107.51
77.48 CDCl3
77.16 CDCl3
76.84 CDCl3
41.15
37.59
37.17
28.85
18.66
Me
Ad
1f
f1 (ppm)

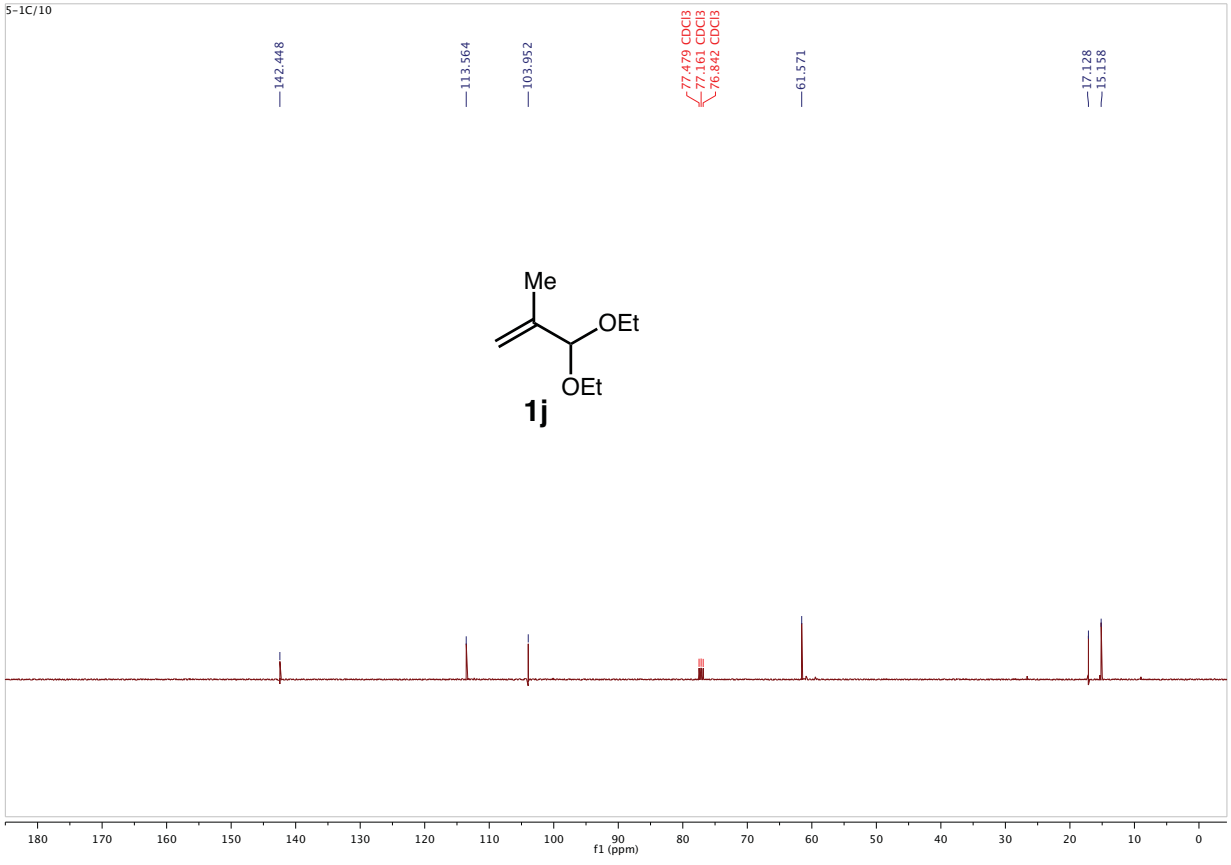

3-187-2H/10
7.260
5.118
5.114
5.109
5.105
4.933
4.930
4.926
4.922
4.214
4.210
4.206
1.084
0.929
0.077
OTBS
t-Bu
1h
1.00
1.00
2.00
9.02
9.31
6.00
f1 (ppm)

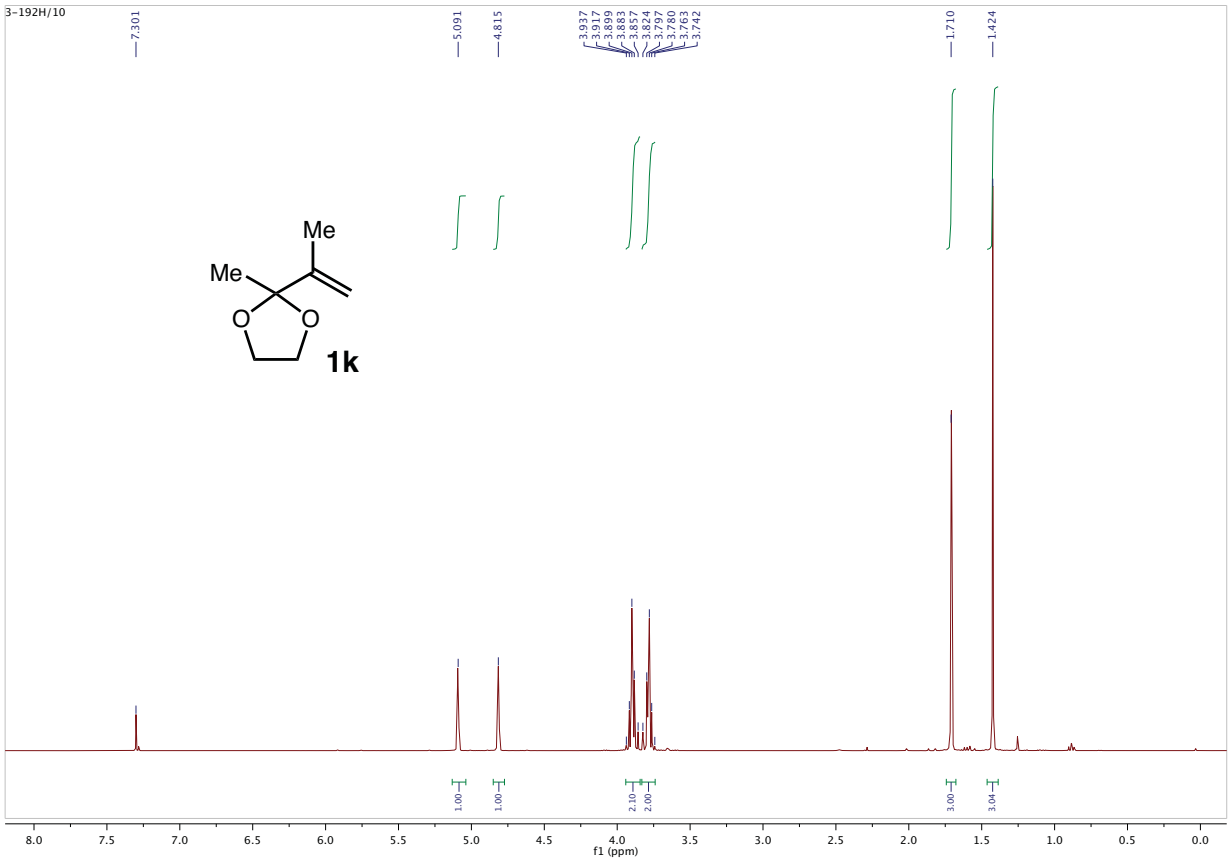

3-187-2C/10
156.299
106.125
77.477 CDCl3
77.160 CDCl3
76.843 CDCl3
62.973
34.733
29.711
26.126
18.584
-5.237
OTBS
t-Bu
1h
f1 (ppm)

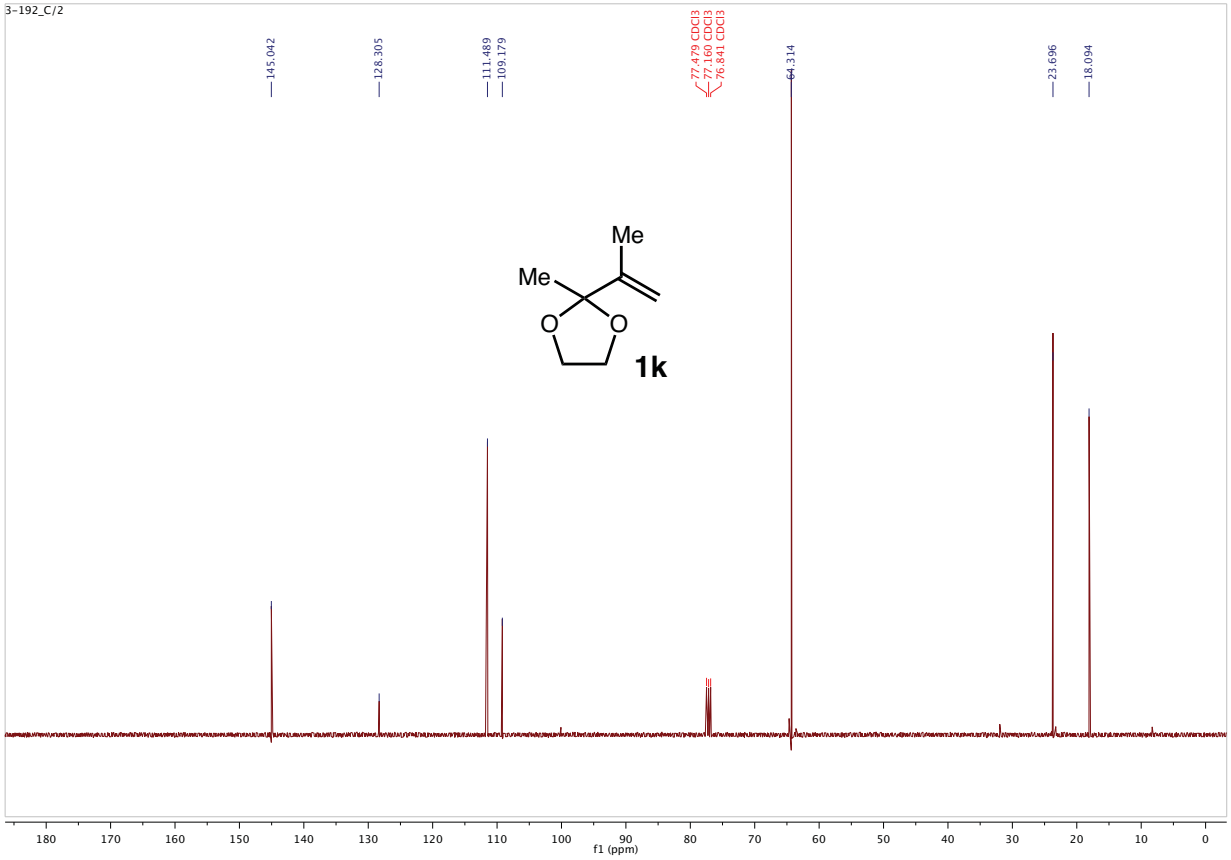

3-220-1/1
5.31
4.98
4.73
1.82
1.39
0.93
0.13
1.02
1.00
3.08
6.45
10.05
6.15
Me
TBSO
Me
Me
1i
f1 (ppm)

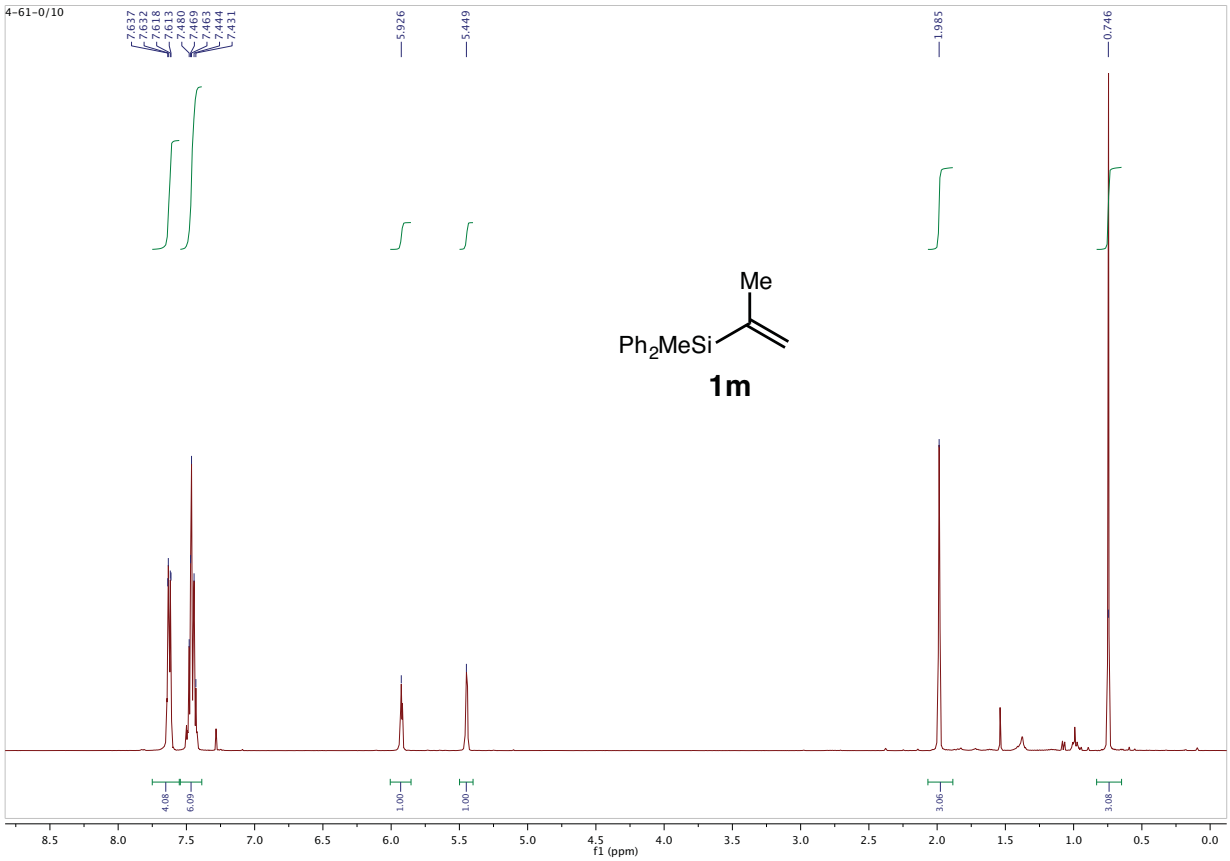

3-220-1C/10
152.76
108.27
77.48 CDCl3
77.16 CDCl3
76.84 CDCl3
75.56
29.71
26.07
19.27
18.44
2.07
Me
TBSO
Me
Me
1i
f1 (ppm)

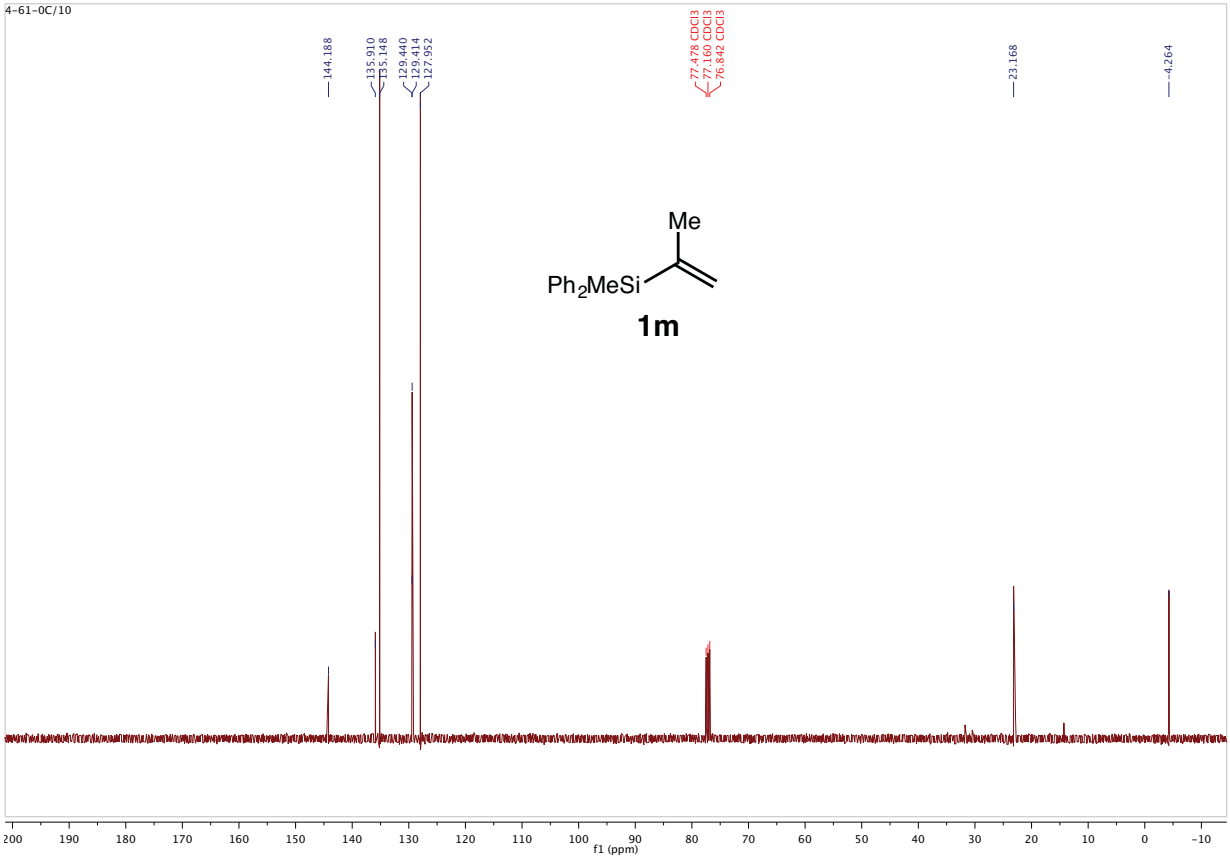

5-1/1
7.261
5.101
5.099
5.096
4.990
4.986
4.982
4.688
3.638
3.620
3.602
3.597
3.579
3.561
3.496
3.478
3.460
3.454
3.437
3.419
1.739
1.736
1.733
1.240
1.223
1.205
Me
OEt
OEt
1j
1.02
1.02
1.00
2.12
2.16
2.99
6.64
f1 (ppm)

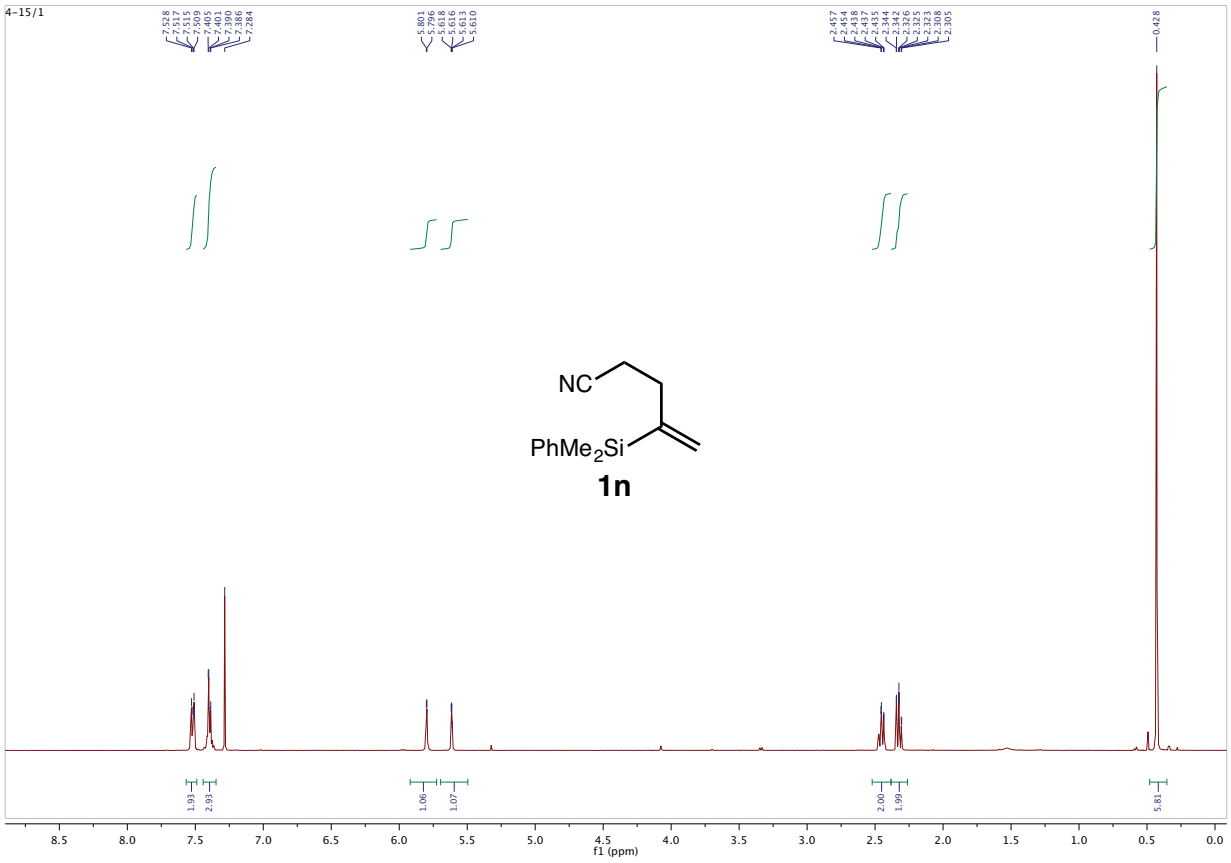

5-1C/10
142.448
113.564
103.952
77.479 CDCl3
77.161 CDCl3
76.842 CDCl3
61.571
17.128
15.158
Me
OEt
OEt
1j
f1 (ppm)

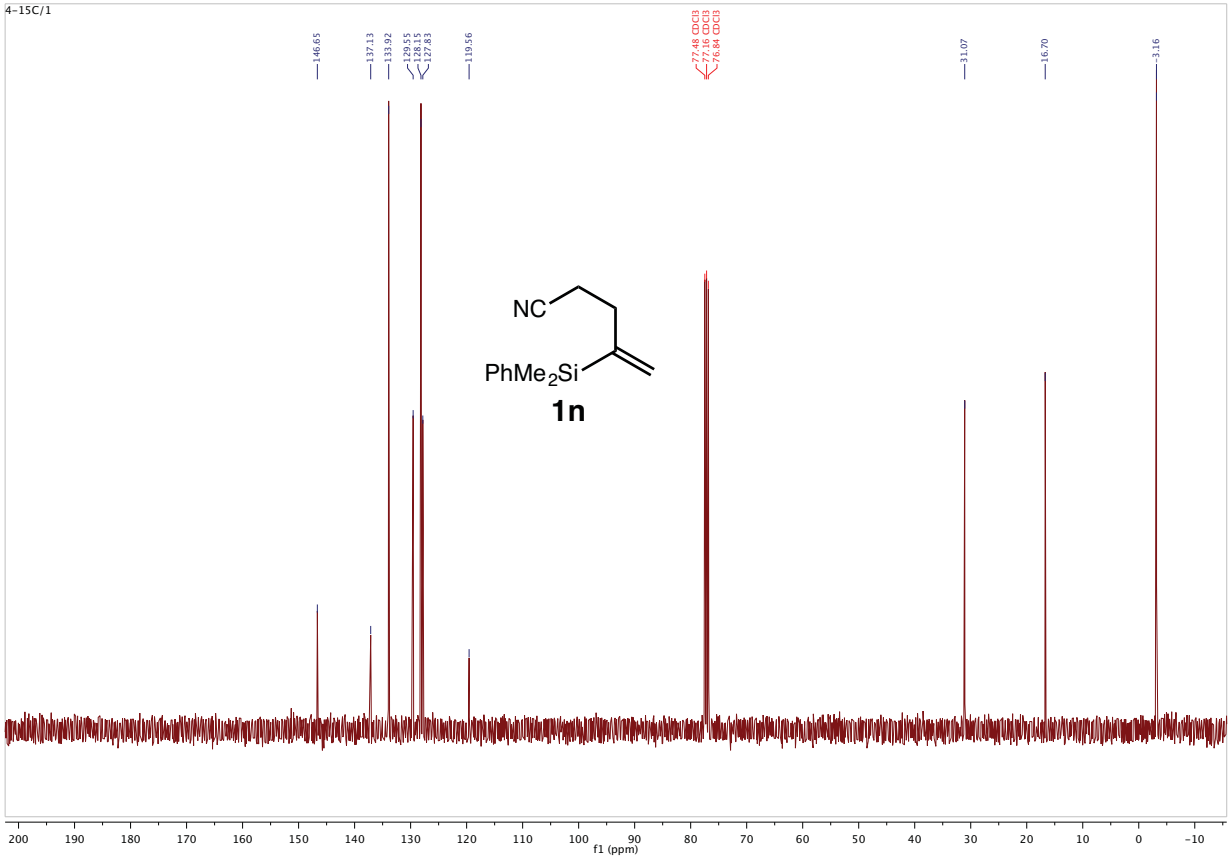

3-192H/10
7.301
5.091
4.815
3.937
3.917
3.899
3.883
3.857
3.824
3.797
3.780
3.763
3.742
1.710
1.424
Me
Me
O
O
1k
1.00
1.00
2.10
2.00
3.00
3.04
f1 (ppm)

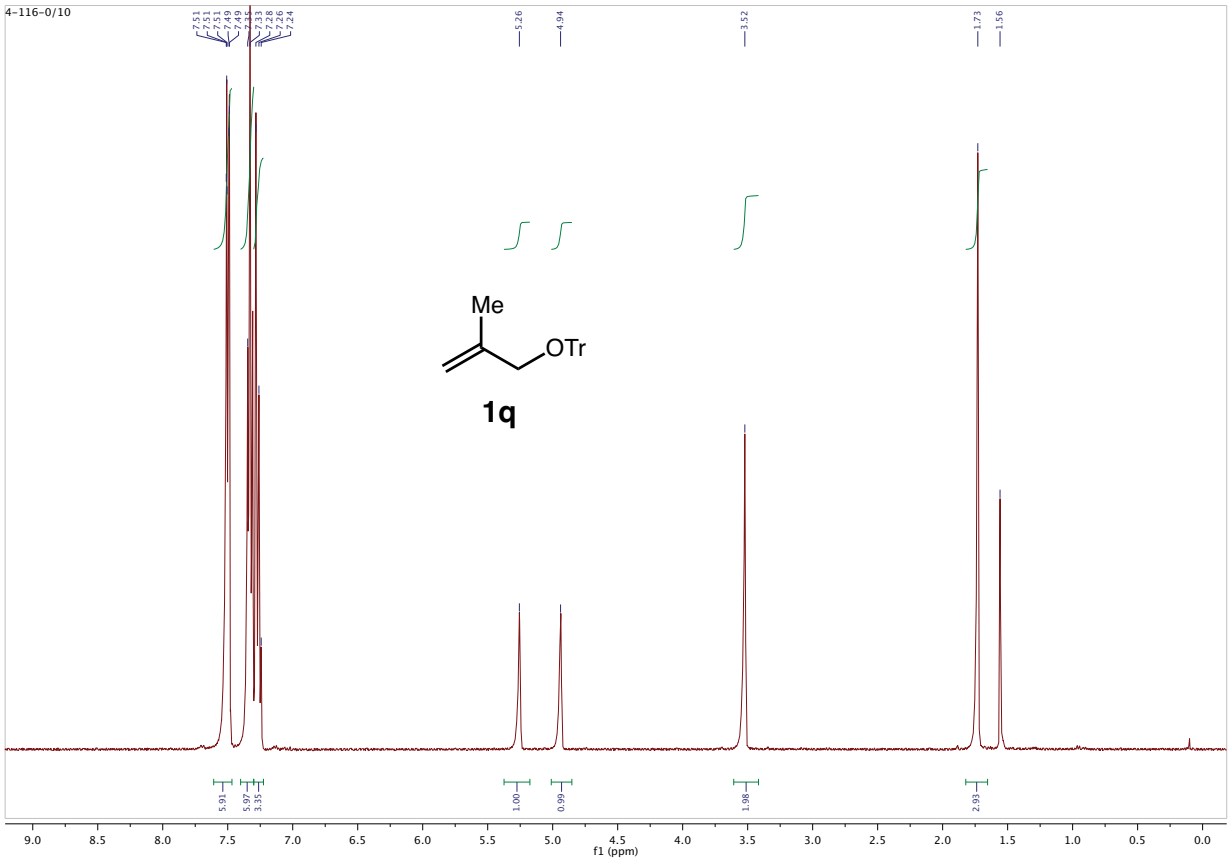

3-192_C/2
145.042
128.305
111.489
109.179
77.479 CDCl3
77.160 CDCl3
76.841 CDCl3
64.314
23.696
18.094
Me
Me
O
O
1k
f1 (ppm)

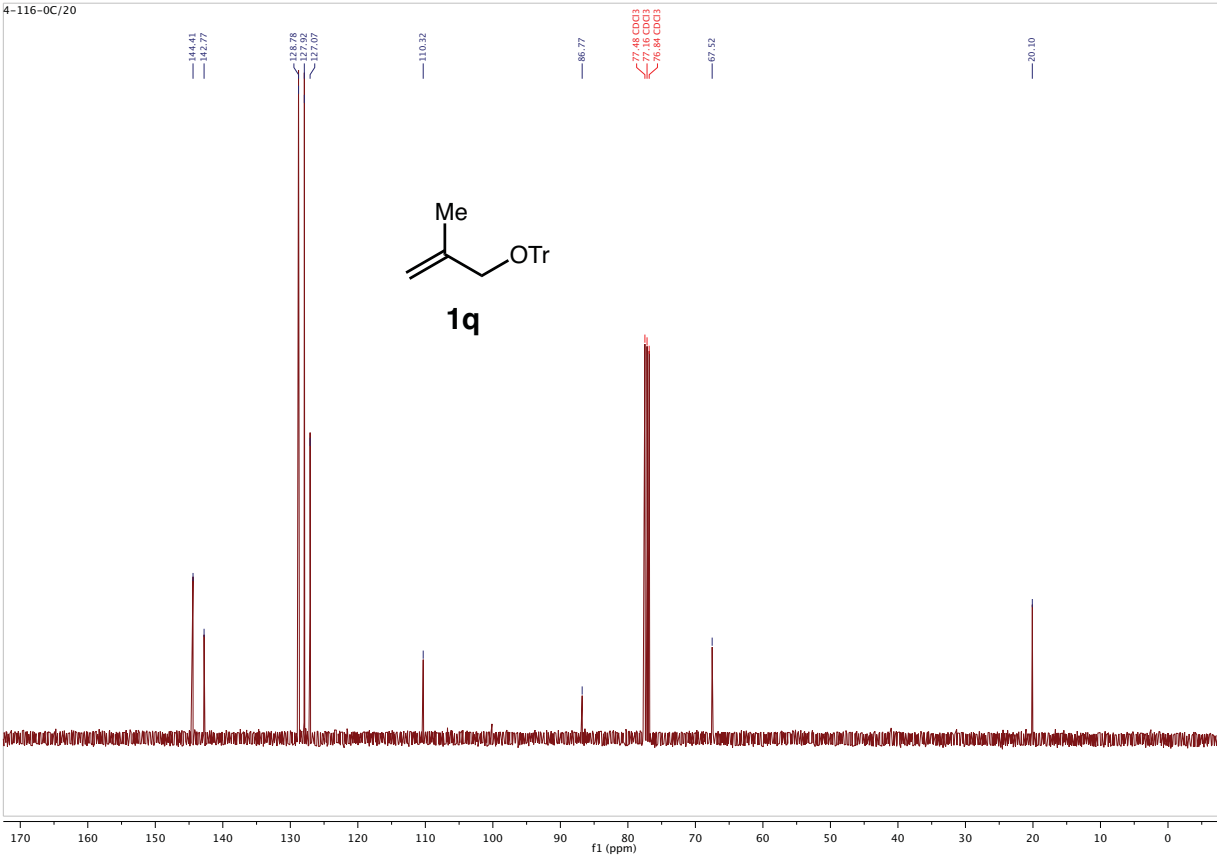

4-61-0/10
7.637
7.632
7.618
7.613
7.480
7.469
7.463
7.444
7.431
5.926
5.449
1.985
0.746
Me
Ph2MeSi
1m
4.08
6.09
1.00
1.00
3.06
3.08
f1 (ppm)

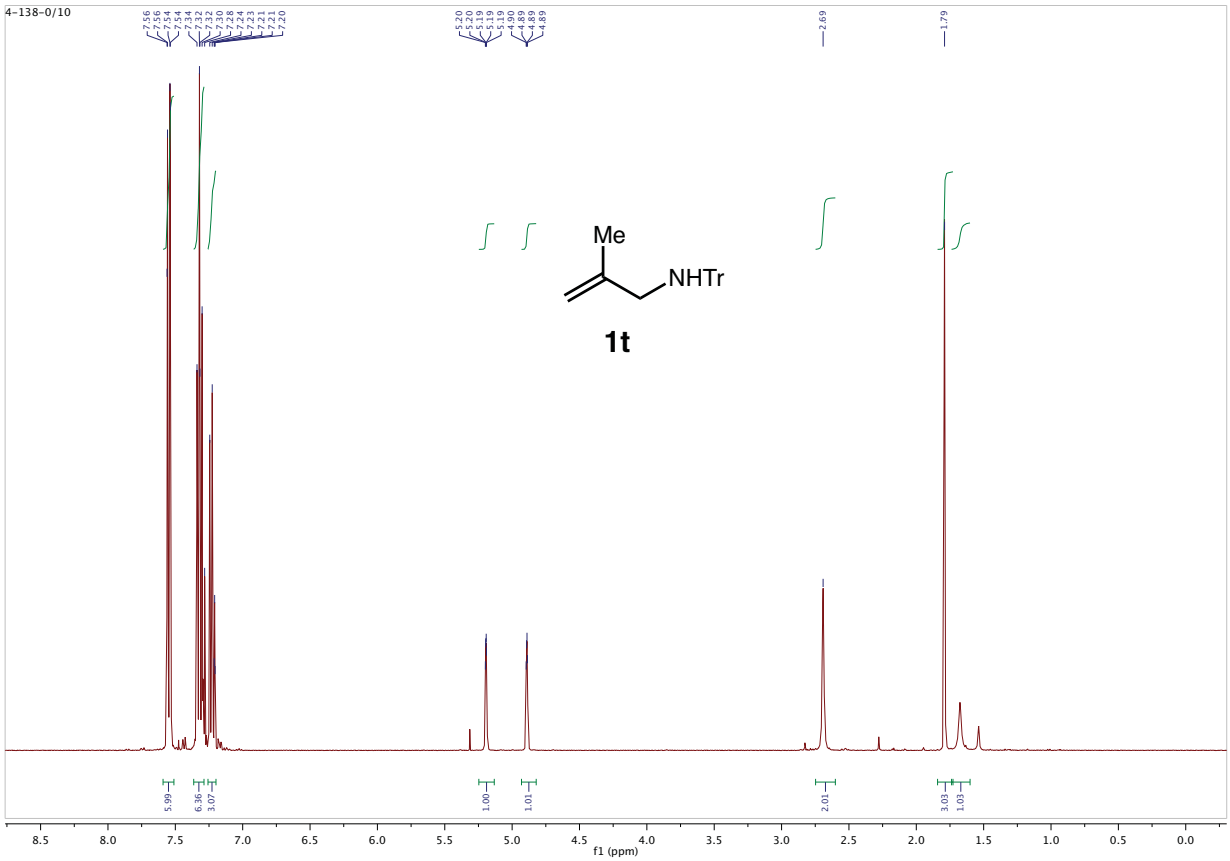

4-61-0C/10
144.188
135.910
135.148
129.440
129.414
127.952
77.478 CDCl3
77.160 CDCl3
76.842 CDCl3
23.168
-4.264
Me
Ph2MeSi
1m
f1 (ppm)

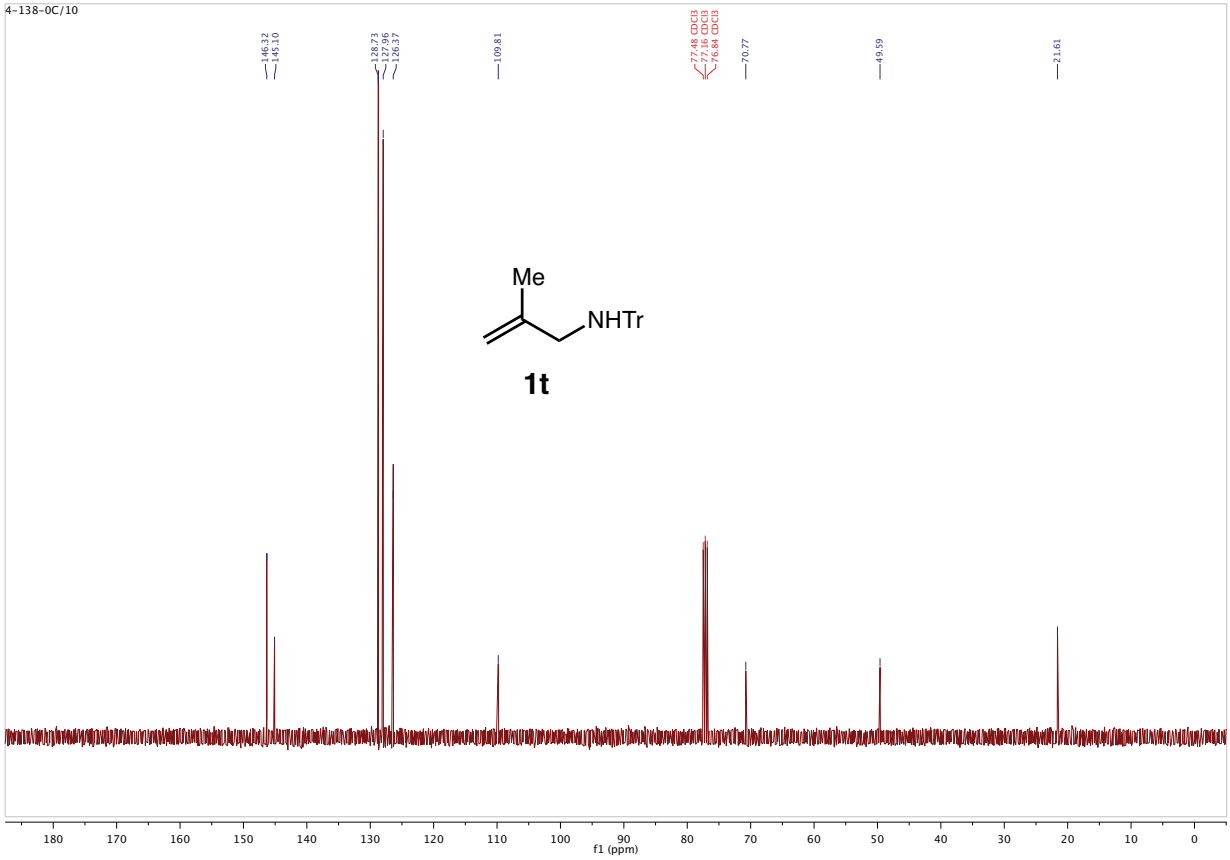

4-15/1
NC
PhMe2Si
1n
f1 (ppm)

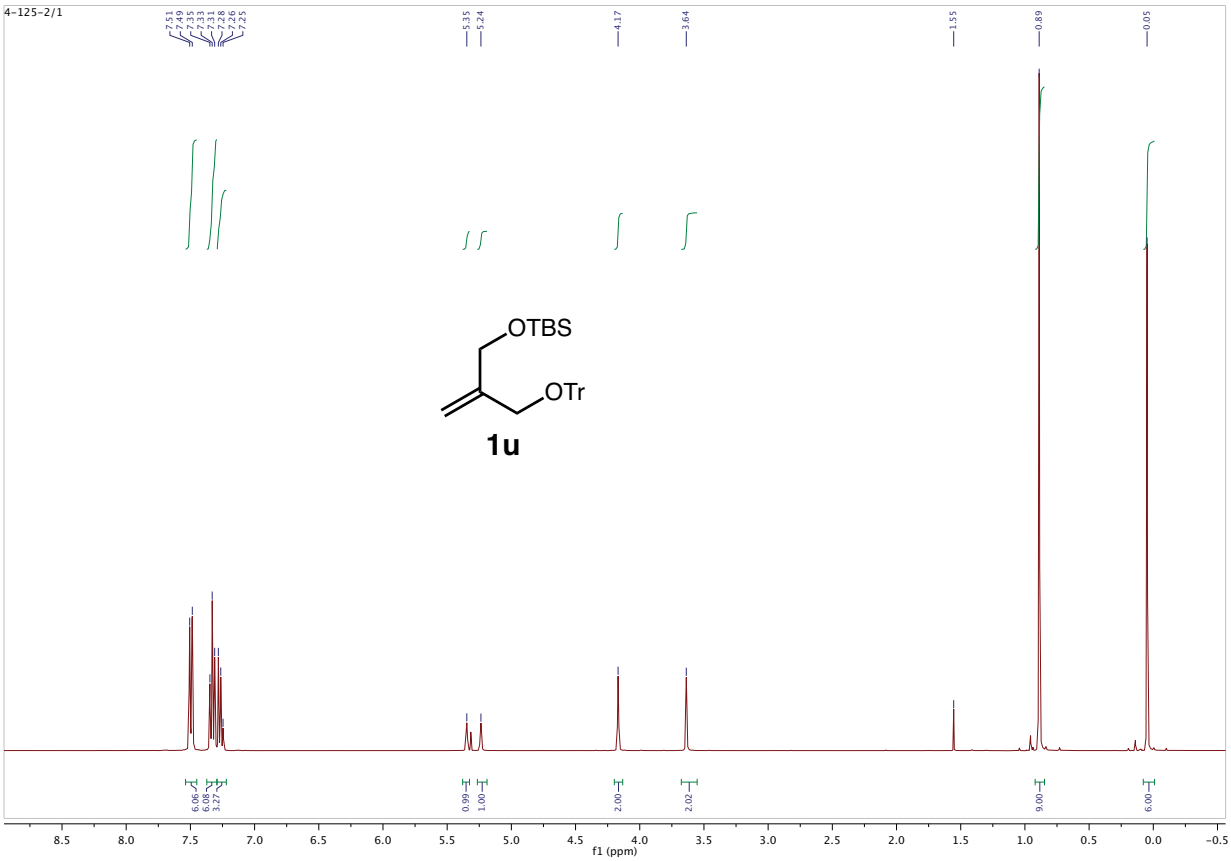

4-15C/1
NC
PhMe2Si
1n
f1 (ppm)

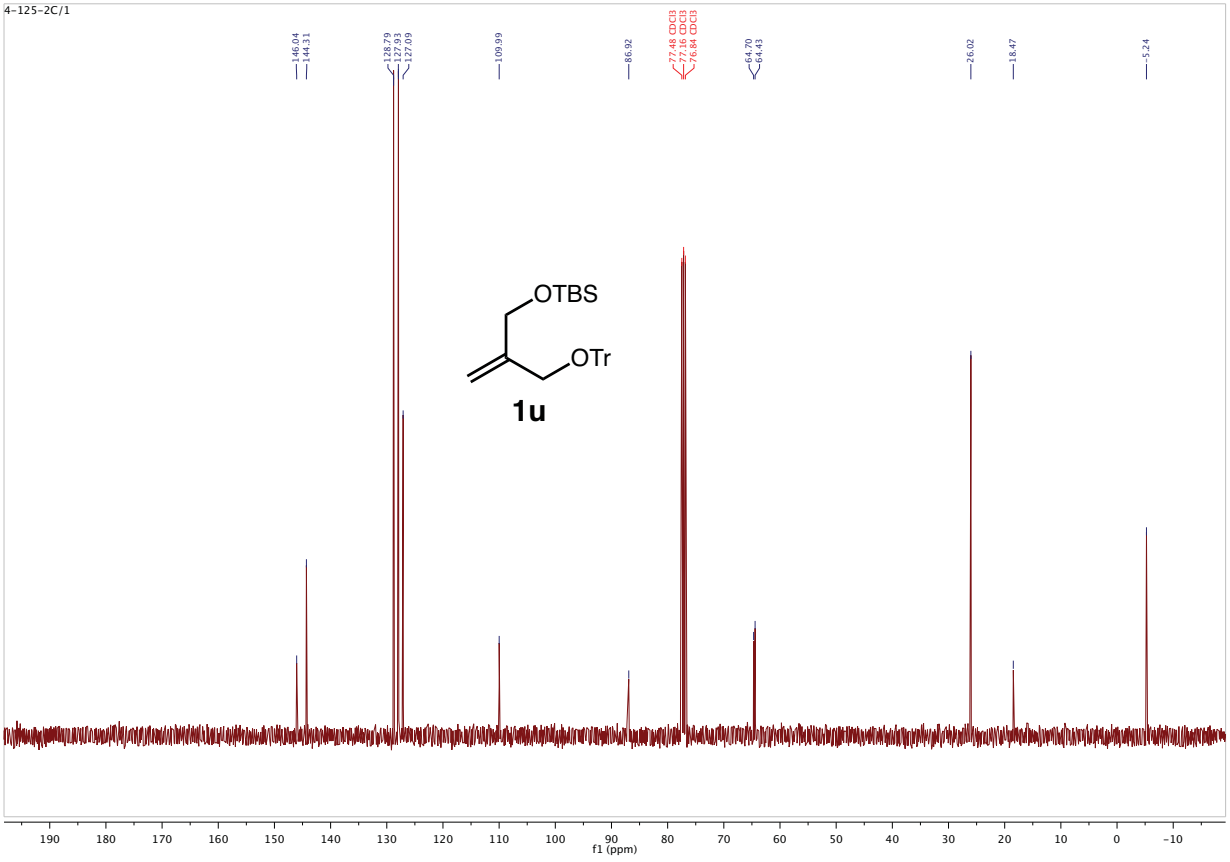

4-116-0/10
7.51
7.51
7.51
7.49
7.49
7.34
7.33
7.28
7.26
7.24
5.26
4.94
3.52
1.73
1.56
Me
OTr
1q
5.91
5.97
3.35
1.00
0.99
1.98
2.93
f1 (ppm)

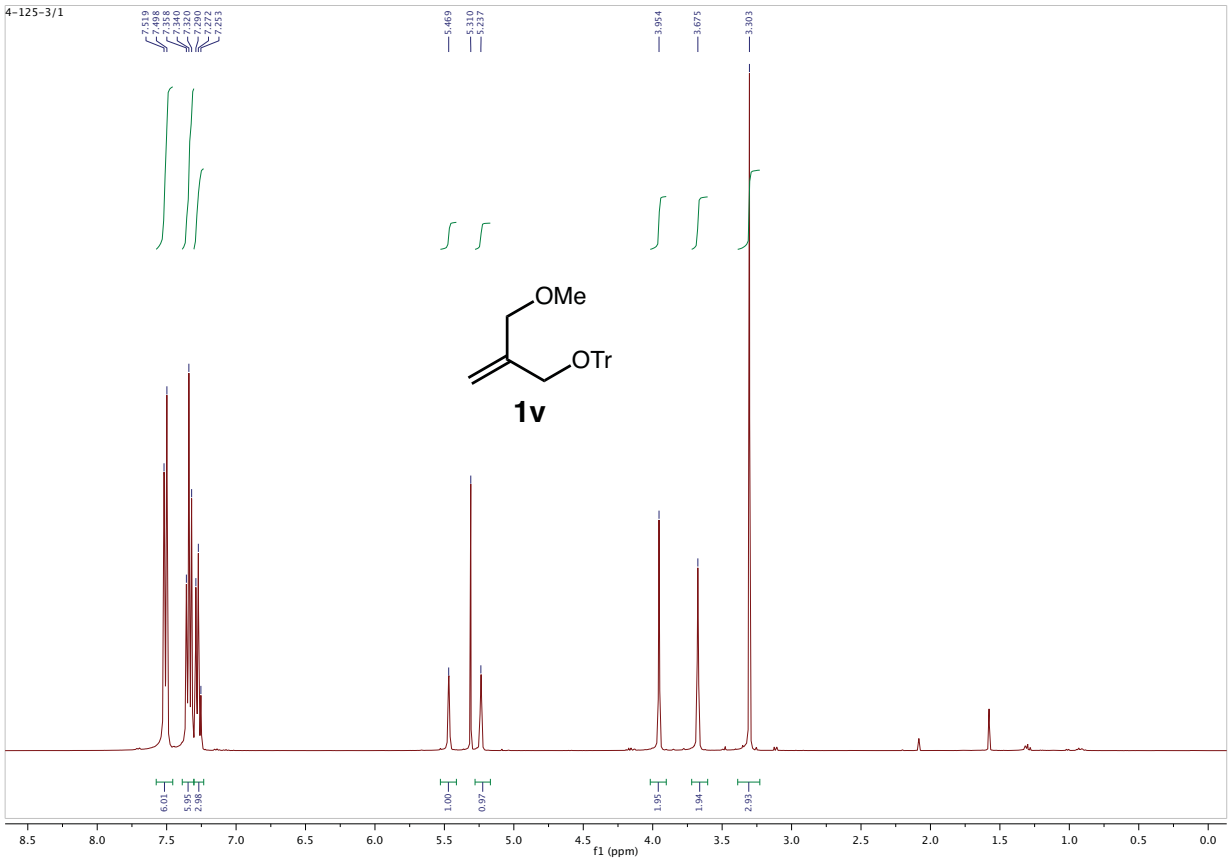

4-116-0C/20
144.41
142.77
128.78
127.92
127.07
110.32
86.77
77.48 CDCl3
77.16 CDCl3
76.84 CDCl3
67.52
20.10
Me
OTr
1q
f1 (ppm)

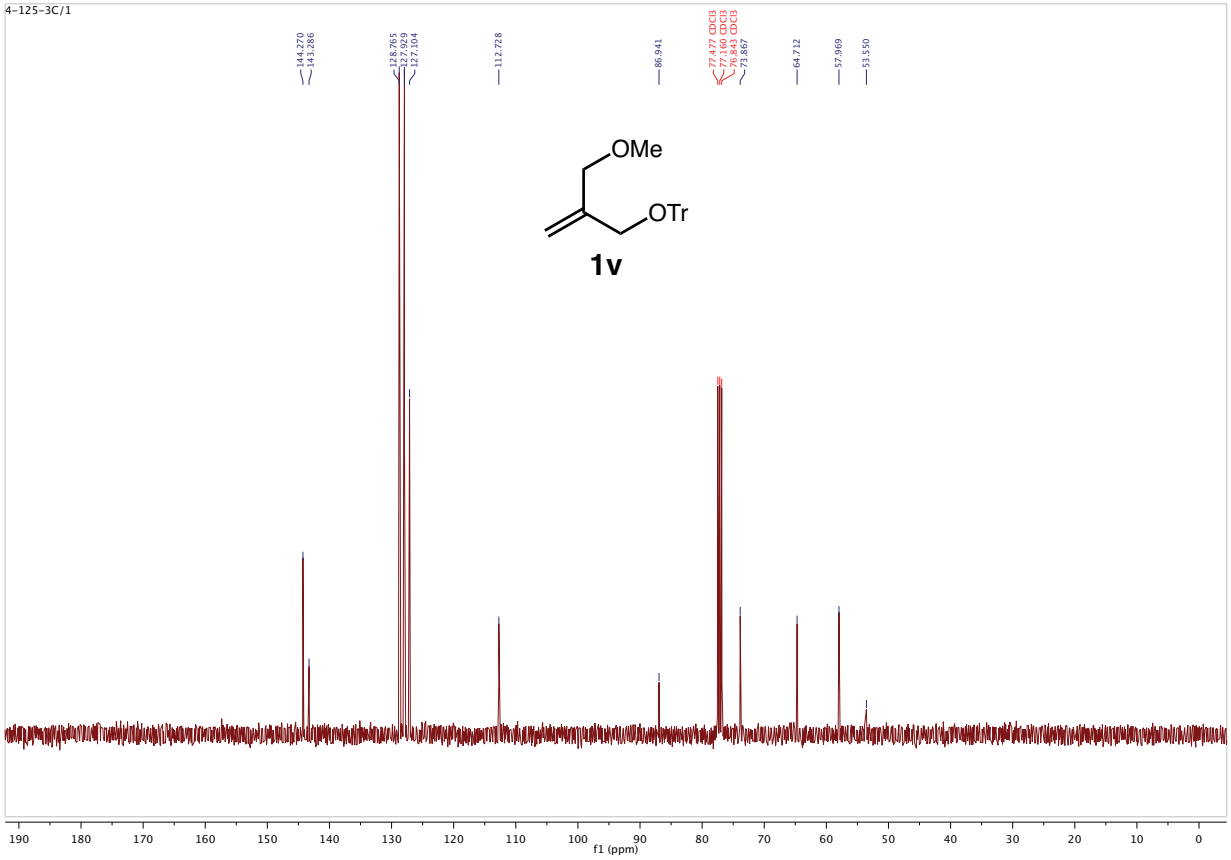

4-138-0/10
Me
NHTr
1t
f1 (ppm)

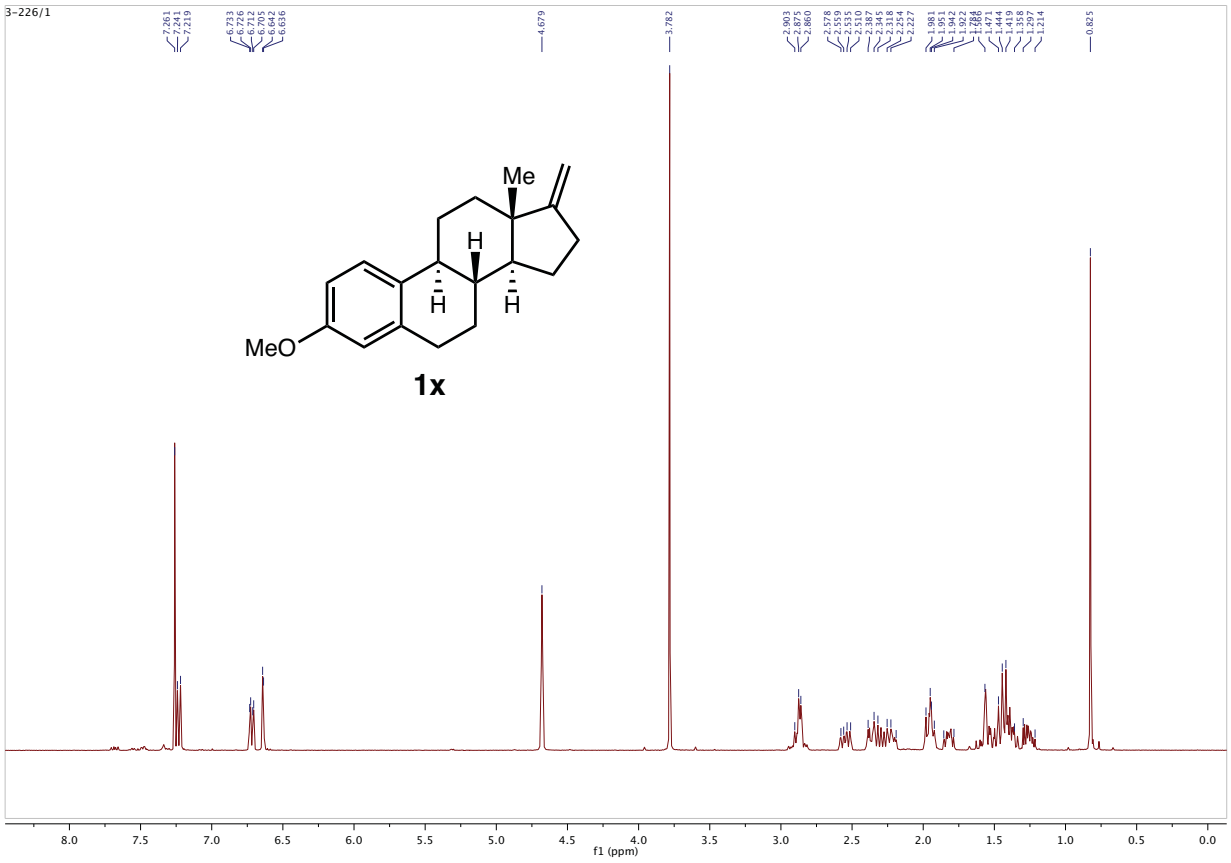

4-138-0C/10
Me
NHTr
1t
f1 (ppm)

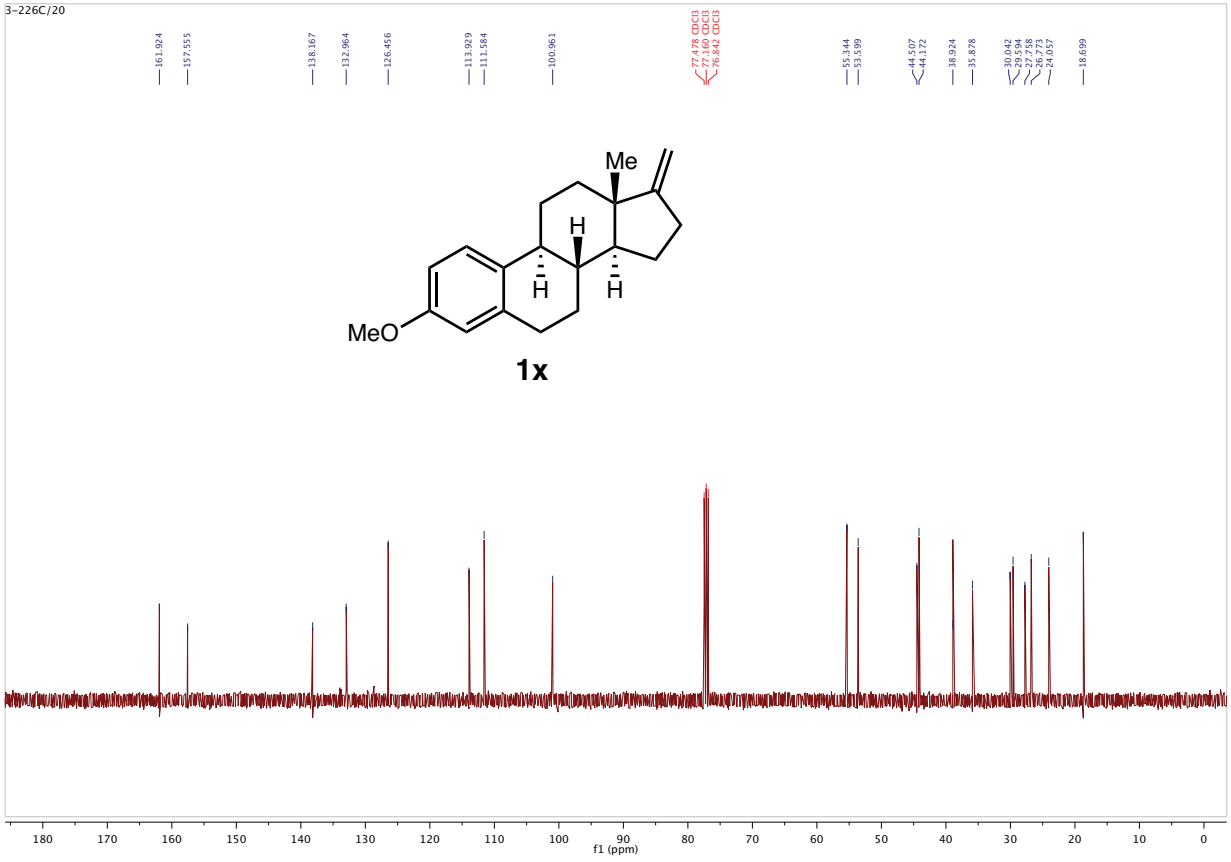

4-125-2/1
7.51
7.49
7.45
7.33
7.31
7.28
7.26
7.25
5.35
5.24
4.17
3.64
1.55
0.89
0.05
OTBS
OTr
1u
6.06
6.08
3.27
0.99
1.00
2.00
2.02
9.00
6.00
f1 (ppm)

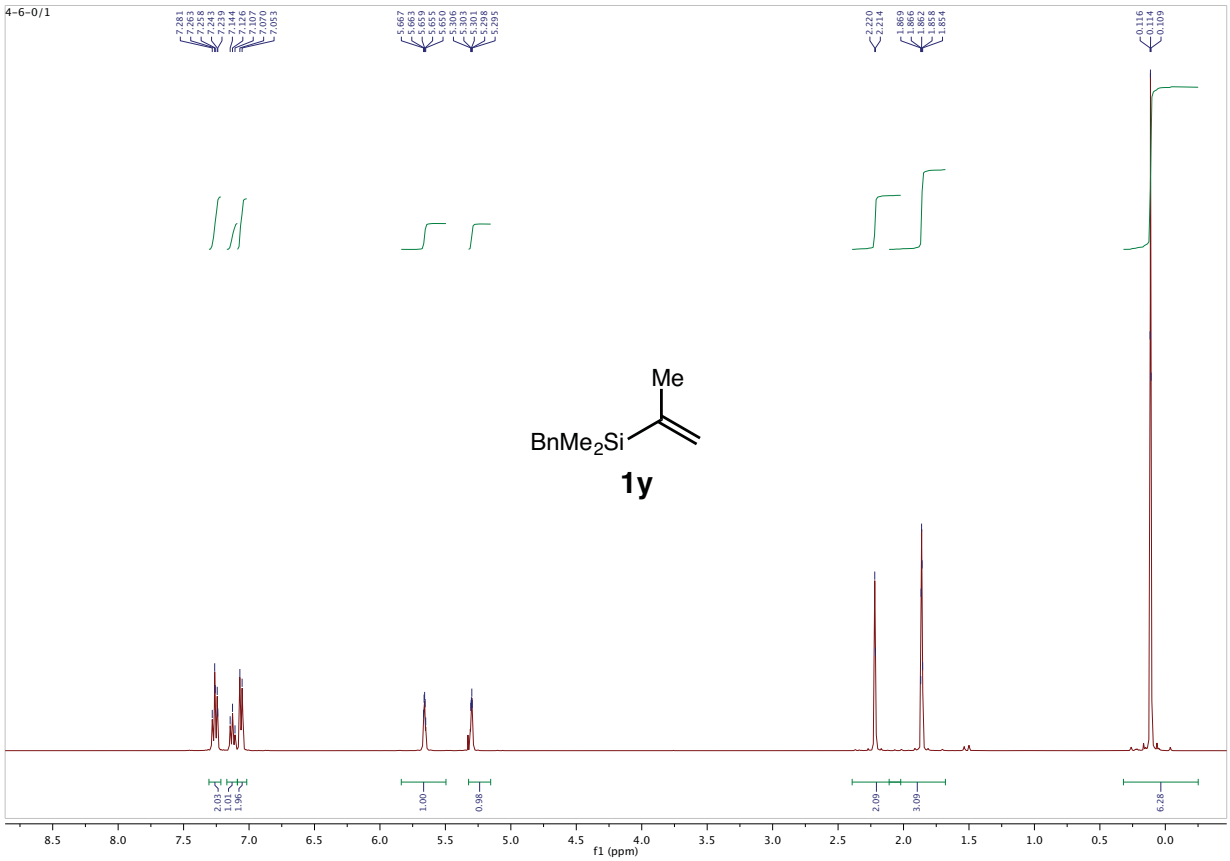

4-125-2C/1
146.04
144.31
128.79
127.93
127.09
109.99
86.92
77.48 CDCl3
77.16 CDCl3
76.84 CDCl3
64.70
64.43
26.02
18.47
-5.24
OTBS
OTr
1u
f1 (ppm)

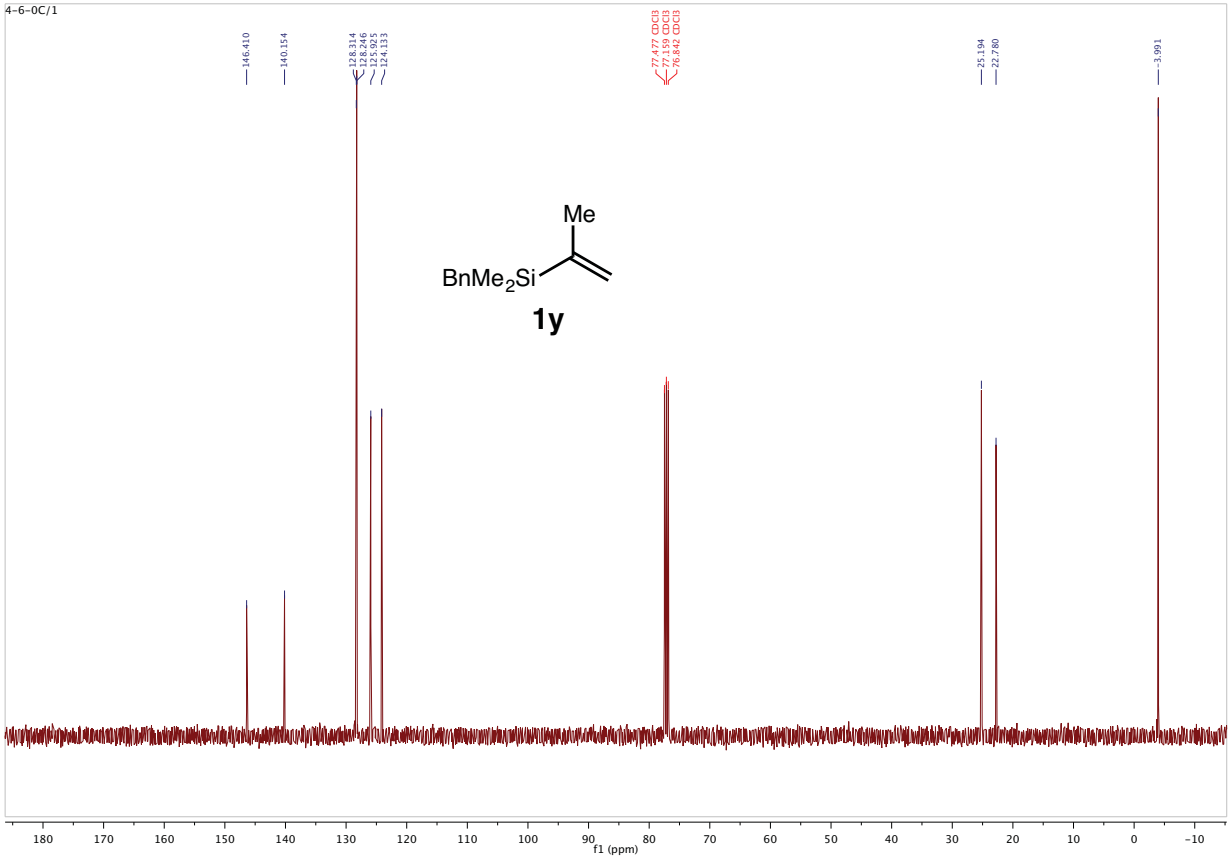

4-125-3/1
7.519
7.498
7.358
7.340
7.320
7.290
7.272
7.253
5.469
5.310
5.237
3.954
3.675
3.303
OMe
OTr
1v
6.01
5.95
2.98
1.00
0.97
1.95
1.94
2.93
f1 (ppm)

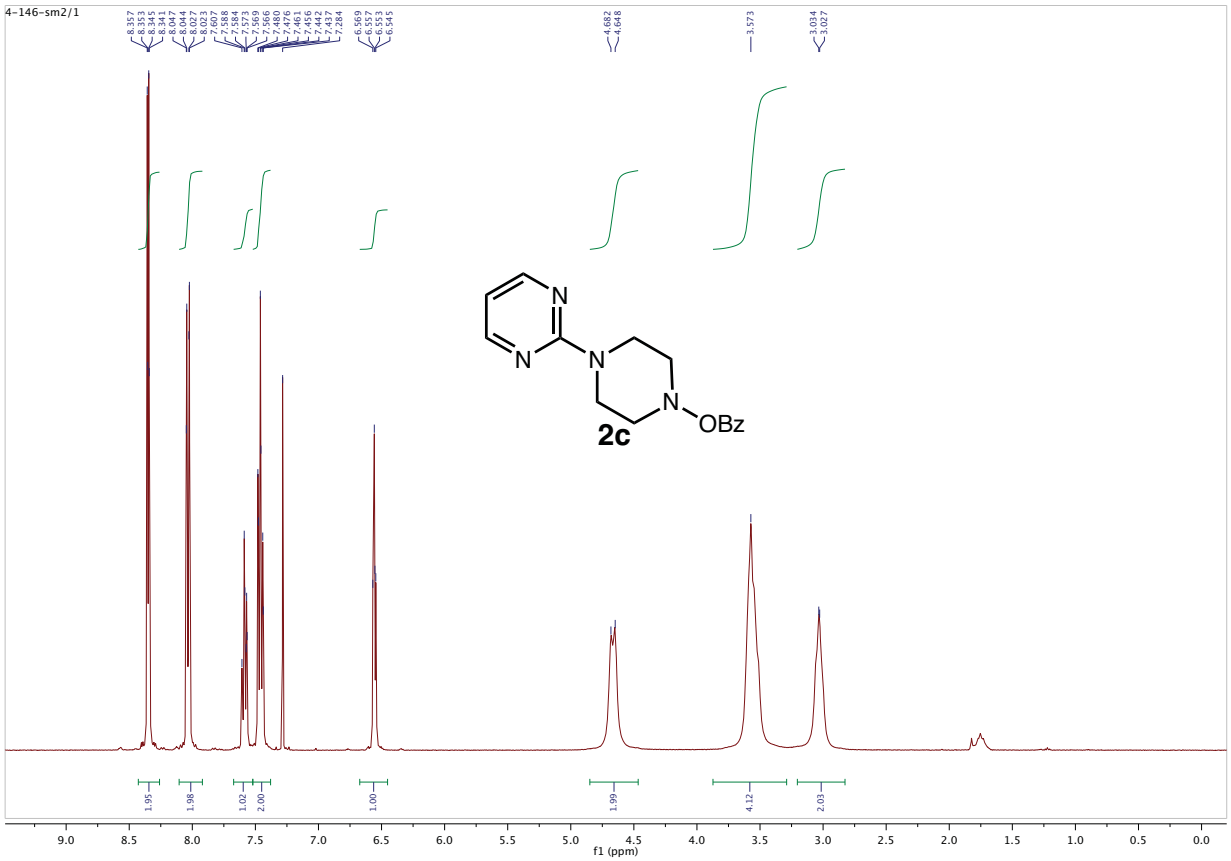

4-125-3C/1
144.270
143.286
128.765
127.929
127.104
112.728
86.941
77.477 CDCl3
77.160 CDCl3
76.843 CDCl3
73.867
64.712
57.969
53.550
OMe
OTr
1v
f1 (ppm)

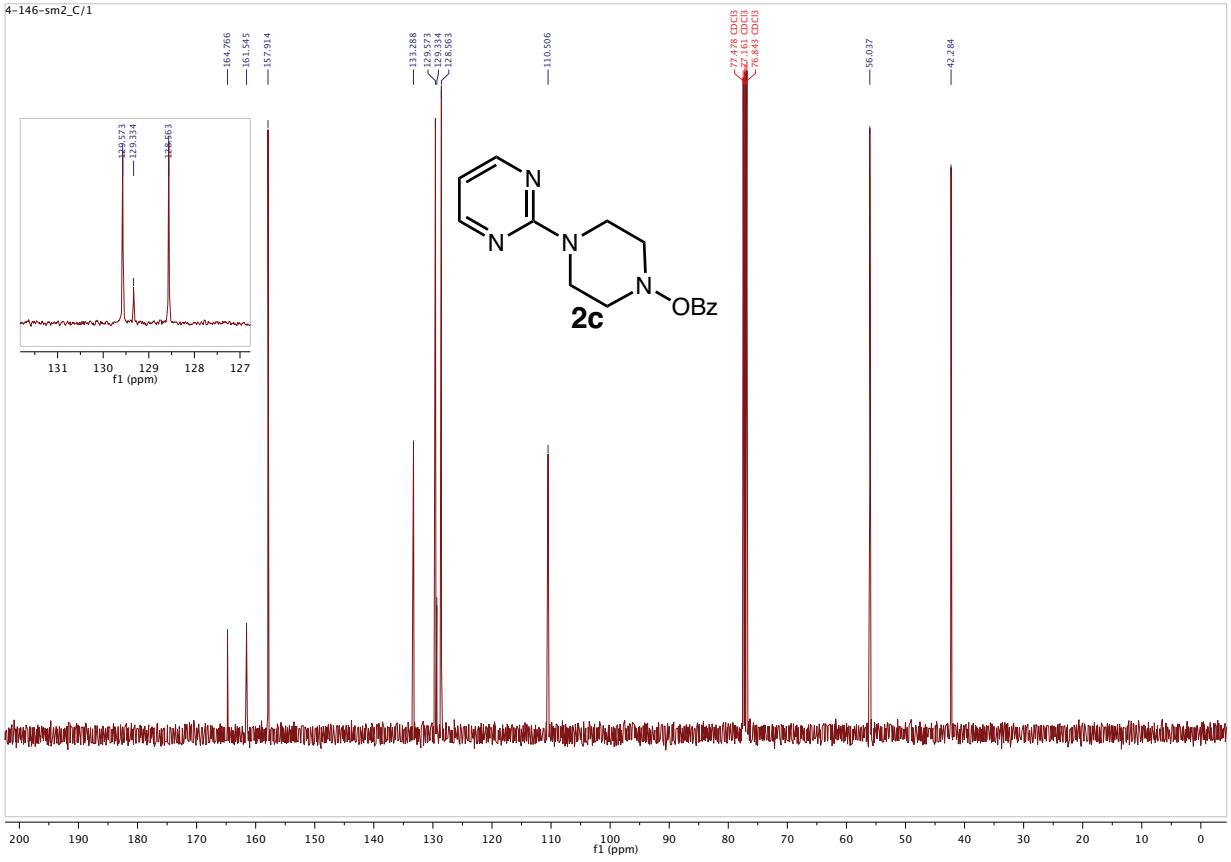

3-226/1
Me
H
H
H
MeO
1x
f1 (ppm)

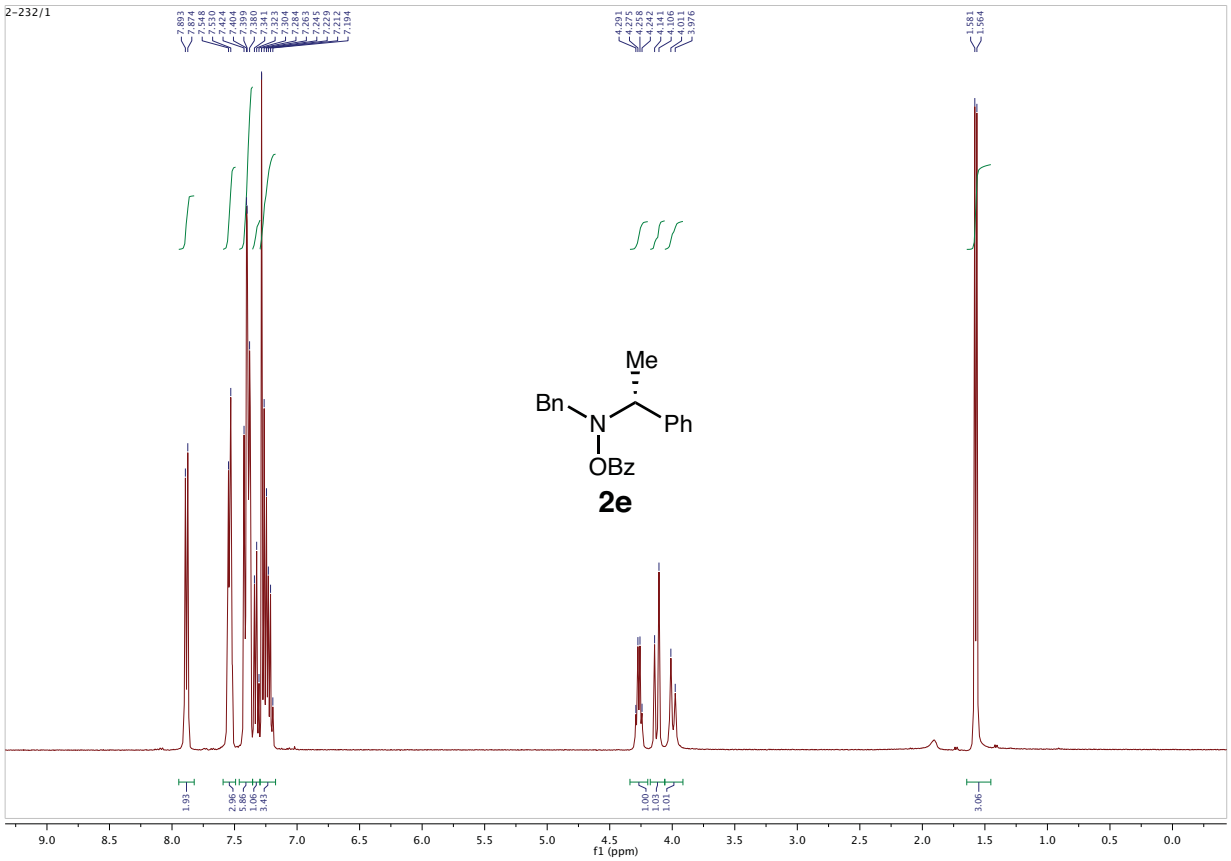

3-226C/20
Me
H
H
H
MeO
1x
f1 (ppm)

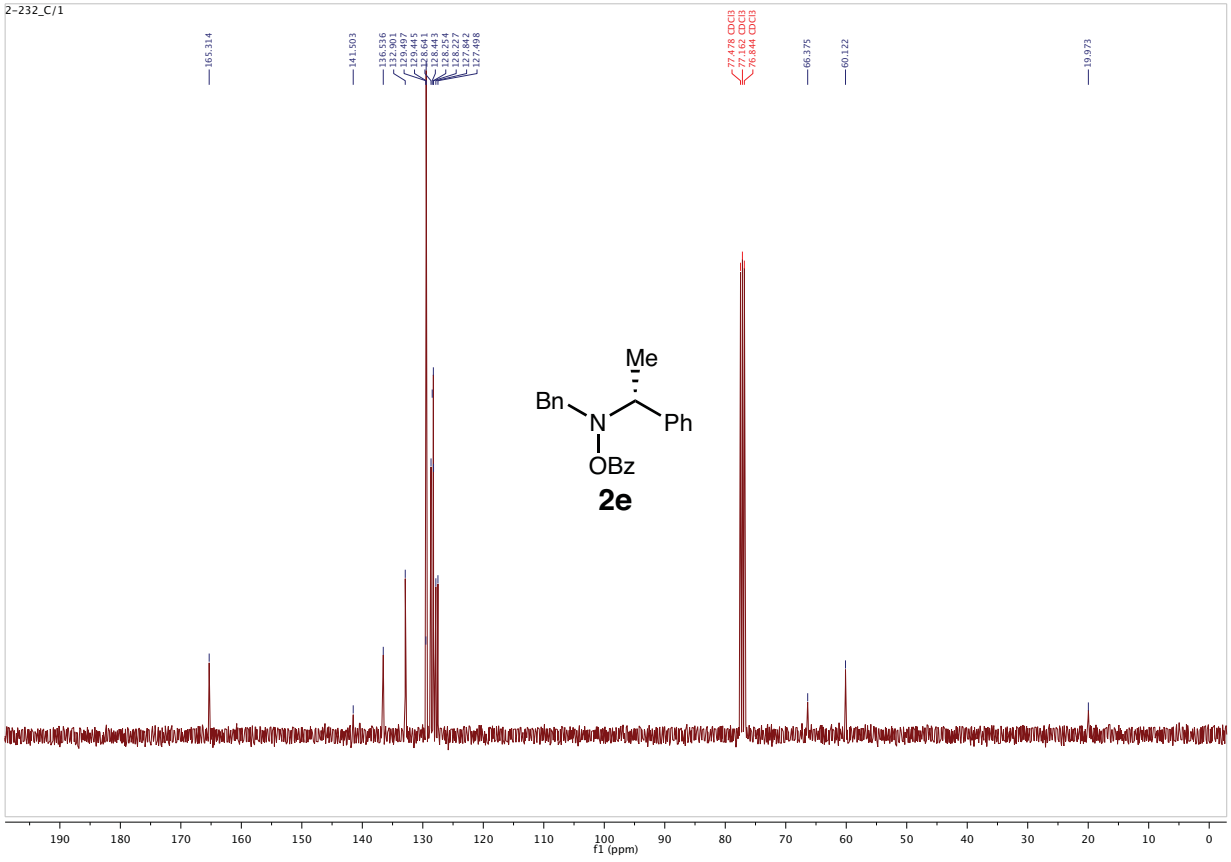

4-6-0/1
Me
BnMe2Si
1y
f1 (ppm)


4-6-0C/1
Me
BnMe2Si
1y
f1 (ppm)


4-146-sm2/1
8.357
8.353
8.345
8.341
8.047
8.044
8.027
8.023
7.607
7.588
7.584
7.573
7.569
7.566
7.476
7.460
7.461
7.456
7.437
7.432
7.417
7.284
6.569
6.557
6.553
6.545
4.682
4.648
3.573
3.034
3.027
1.95
1.98
1.02
2.00
1.00
1.99
4.12
2.03
N
N
N
N
OBz
2c
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
f1 (ppm)


4-146-sm2_C/1
164.766
161.545
157.914
133.288
129.573
129.334
128.563
110.506
77.478 CDCl3
77.161 CDCl3
76.843 CDCl3
56.037
42.284
129.573
129.334
128.563
131
130
129
128
127
f1 (ppm)
N
N
N
N
OBz
2c
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
f1 (ppm)

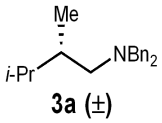

2-232/1
Me
Bn
N
Ph
OBz
2e
f1 (ppm)


2-232_C/1
Me
Bn
N
Ph
OBz
2e
f1 (ppm)

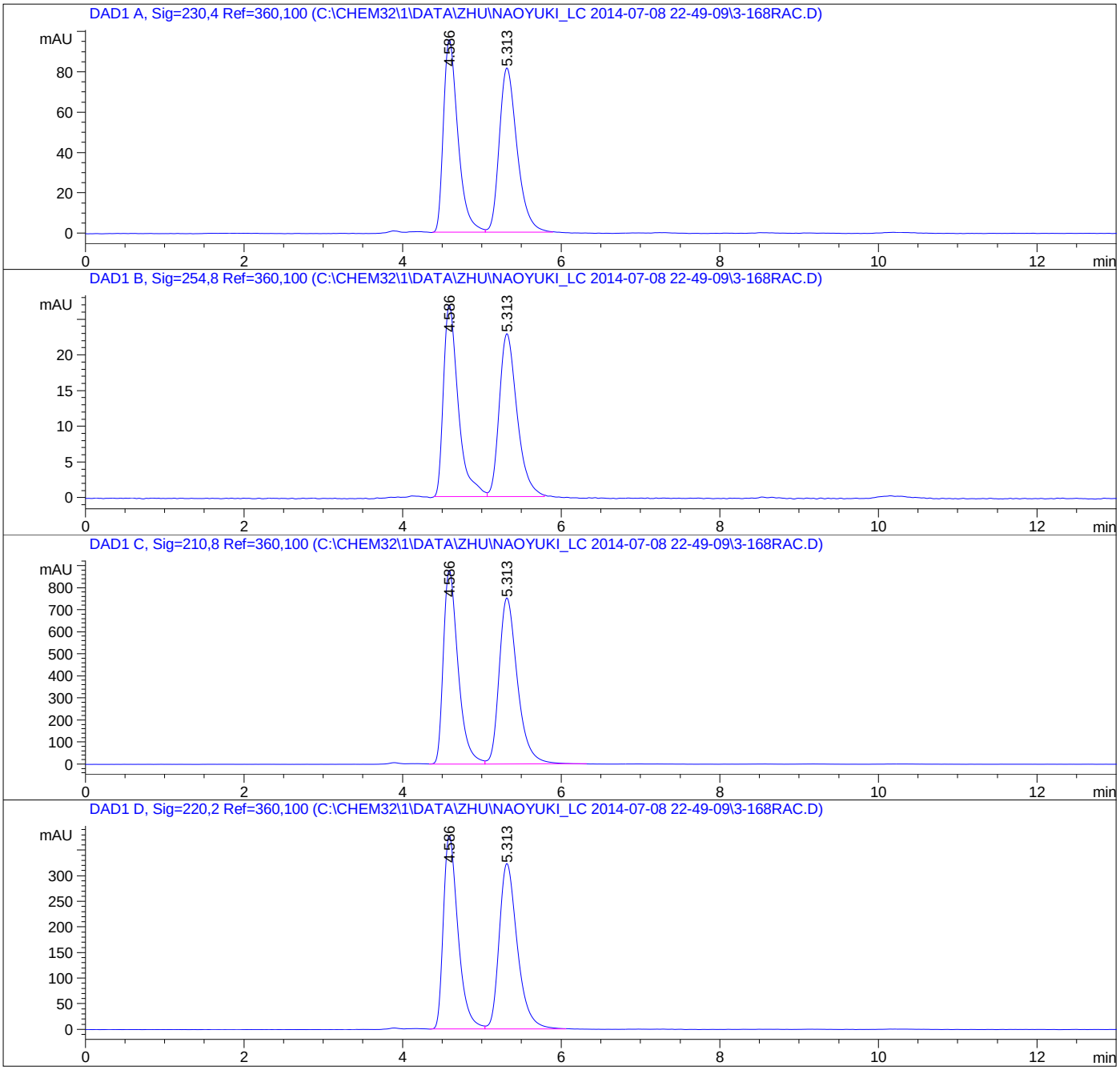
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-07-08 22-49-09\3-168RAC.D
Sample Name: 3-168RAC

==========

Acq. Operator : AJR Seq. Line : 4
Acq. Instrument : Instrument 1 Location : Vial 53
Injection Date : 7/8/2014 11:52:16 PM Inj : 1
Inj Volume : 5 µl
Different Inj Volume from Sequence ! Actual Inj Volume : 3 µl
Acq. Method : C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-07-08 22-49-09\03-30ETOH.M
Last changed : 7/8/2014 11:18:47 PM by AJR
(modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\YMWHEXANES_PT8.M
Last changed : 9/22/2014 2:08:19 AM by RZ
(modified after loading)



3a (±)



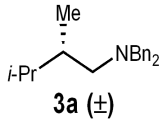
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-07-08 22-49-09\3-168RAC.D
Sample Name: 3-168RAC

==========

Area Percent Report

==========

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



3a (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.586	BV	0.1948	1217.92639	95.52319	48.7915
2	5.313	VB	0.2410	1278.25818	81.49140	51.2085
Totals :				2496.18457	177.01459	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.586	BB	0.1978	349.63266	26.86418	49.4963
2	5.313	BB	0.2383	356.74835	22.82956	50.5037
Totals :				706.38101	49.69374	

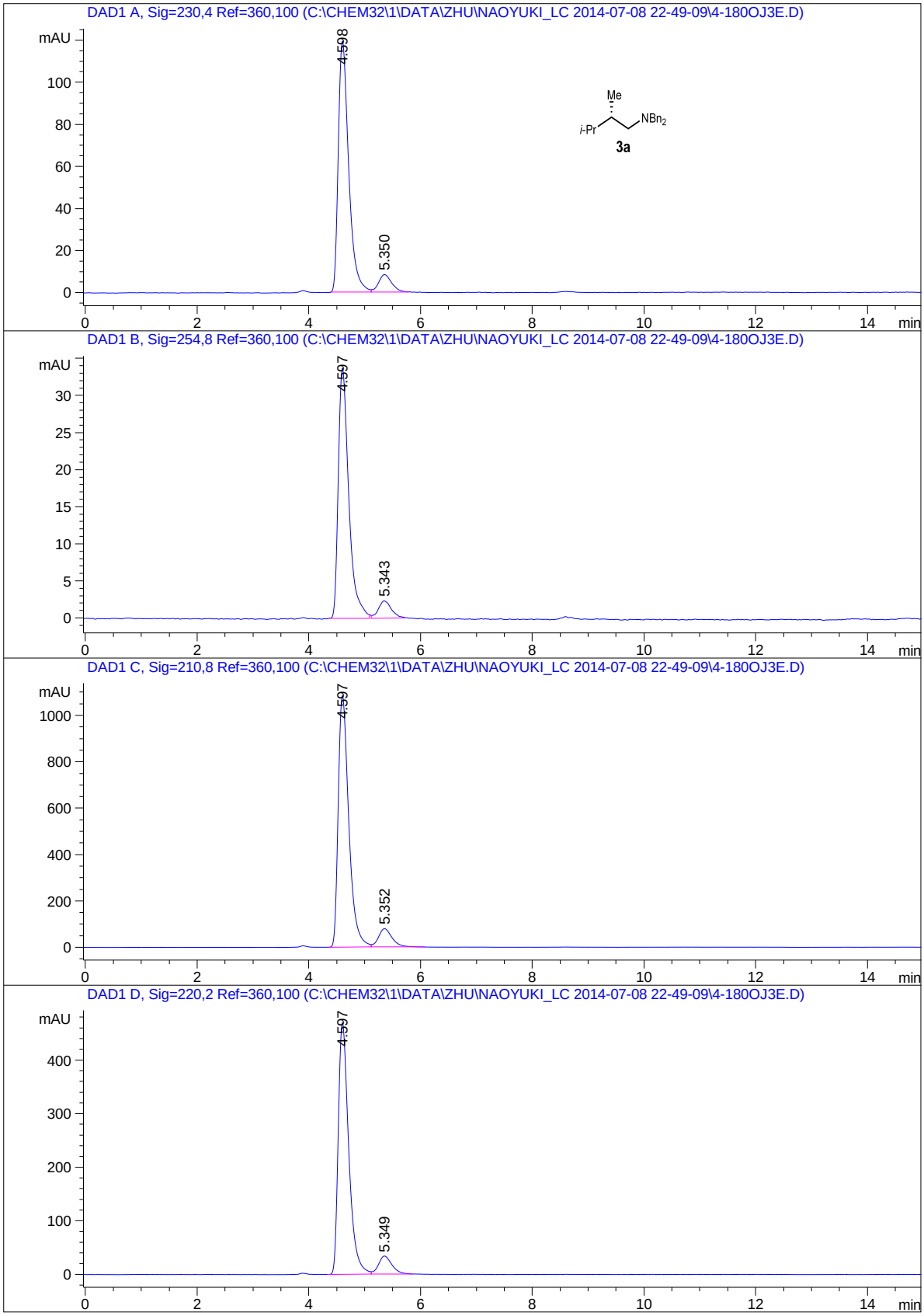
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.586	VV	0.1988	1.13734e4	879.84344	48.3933
2	5.313	VB	0.2457	1.21286e4	753.93365	51.6067
Totals :				2.35020e4	1633.77710	

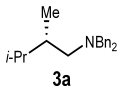
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.586	VV	0.1981	4871.03174	378.51334	48.5419
2	5.313	VB	0.2442	5163.65527	323.61734	51.4581

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-07-08 22-49-09\4-180OJ3E.D
Sample Name: 4-180



Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-07-08 22-49-09\4-180OJ3E.D
Sample Name: 4-180



3a

==========

Area Percent Report

==========

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

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.598	BB	0.1988	1544.13879	119.46315	91.6981
2	5.350	BB	0.2558	139.79808	8.41453	8.3019
Totals :				1683.93687	127.87768	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.597	BB	0.1982	440.09738	33.73999	91.8887
2	5.343	BB	0.2175	38.84876	2.36721	8.1113
Totals :				478.94614	36.10720	

Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.597	BV	0.2010	1.42293e4	1085.31287	91.1047
2	5.352	VB	0.2650	1389.31860	79.83940	8.8953
Totals :				1.56186e4	1165.15227	

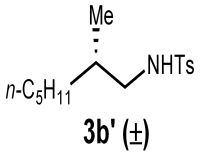
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.597	BV	0.1997	6106.97266	469.66199	91.4629
2	5.349	VB	0.2559	570.02472	33.94552	8.5371

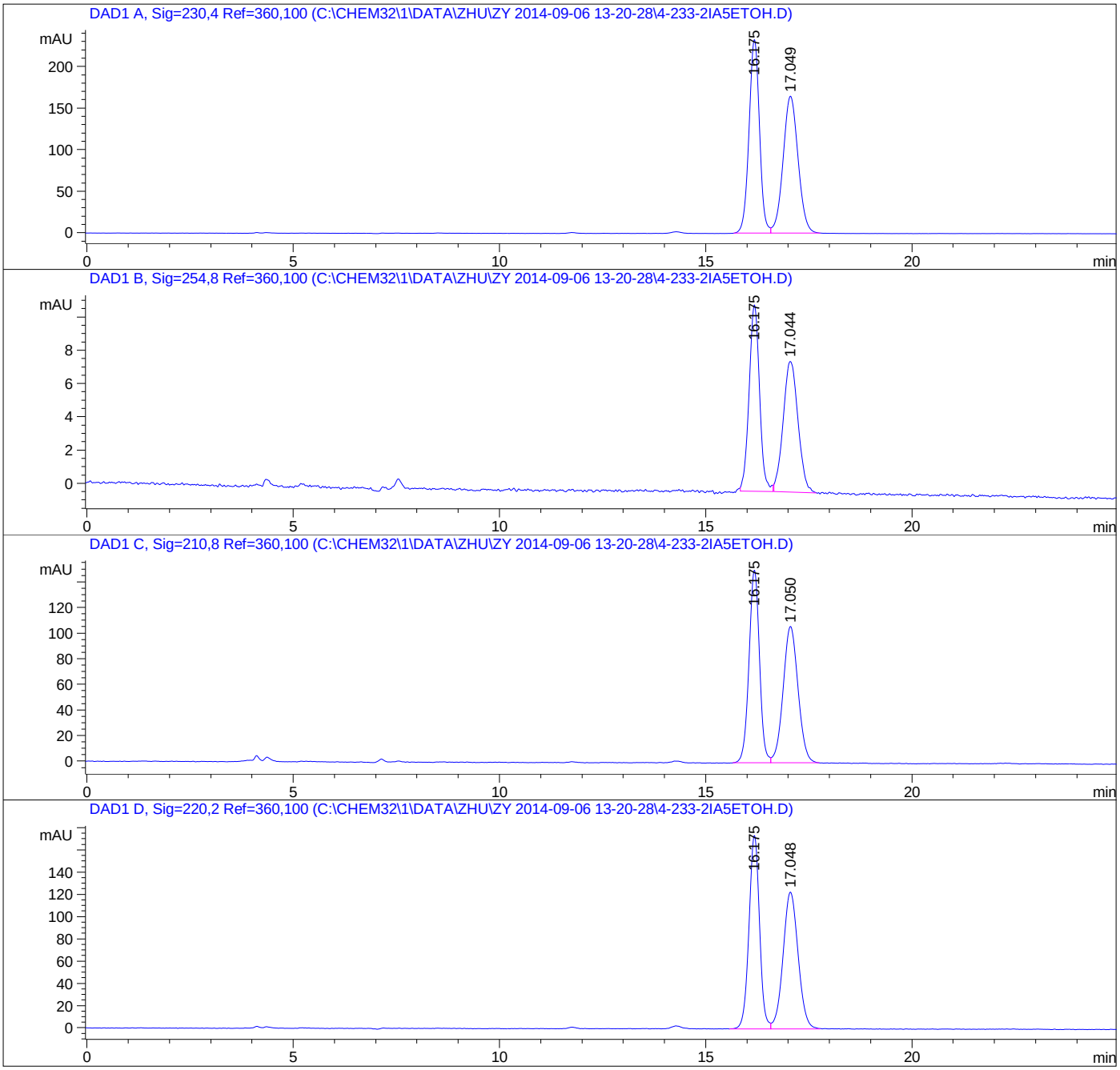
Data File C:\CHEM32\1\DATA\ZHU\ZY 2014-09-06 13-20-28\4-233-2IA5ETOH.D
Sample Name: 4-233-2RAC

==========

Acq. Operator : RZ Seq. Line : 9
Acq. Instrument : Instrument 1 Location : Vial 51
Injection Date : 9/6/2014 4:44:16 PM Inj : 1
Inj Volume : 5 µl
Different Inj Volume from Sequence ! Actual Inj Volume : 2 µl
Acq. Method : C:\CHEM32\1\DATA\ZHU\ZY 2014-09-06 13-20-28\05-30ETOH.M
Last changed : 9/6/2014 5:05:27 PM by RZ
(modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\YMWHEXANES_PT8.M
Last changed : 9/6/2014 5:50:51 PM by RZ
(modified after loading)



3b' (±)



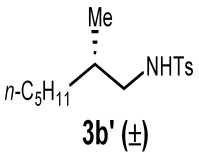
Data File C:\CHEM32\1\DATA\ZHU\ZY 2014-09-06 13-20-28\4-233-2IA5ETOH.D
Sample Name: 4-233-2RAC

==========

Area Percent Report

==========

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



3b' (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	16.175	BV	0.2766	4124.05078	232.91998	49.7222
2	17.049	VB	0.3930	4170.12891	164.91818	50.2778
Totals :				8294.17969	397.83817	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	16.175	BB	0.2740	198.06105	11.21591	50.1278
2	17.044	BB	0.3262	197.05144	7.86900	49.8722
Totals :				395.11249	19.08491	

Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	16.175	BV	0.2747	2667.59424	150.52965	49.7811
2	17.050	VB	0.3904	2691.05884	106.65228	50.2189
Totals :				5358.65308	257.18192	

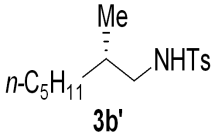
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	16.175	BV	0.2735	3093.13867	173.95059	49.7078
2	17.048	VB	0.3924	3129.50830	123.16146	50.2922

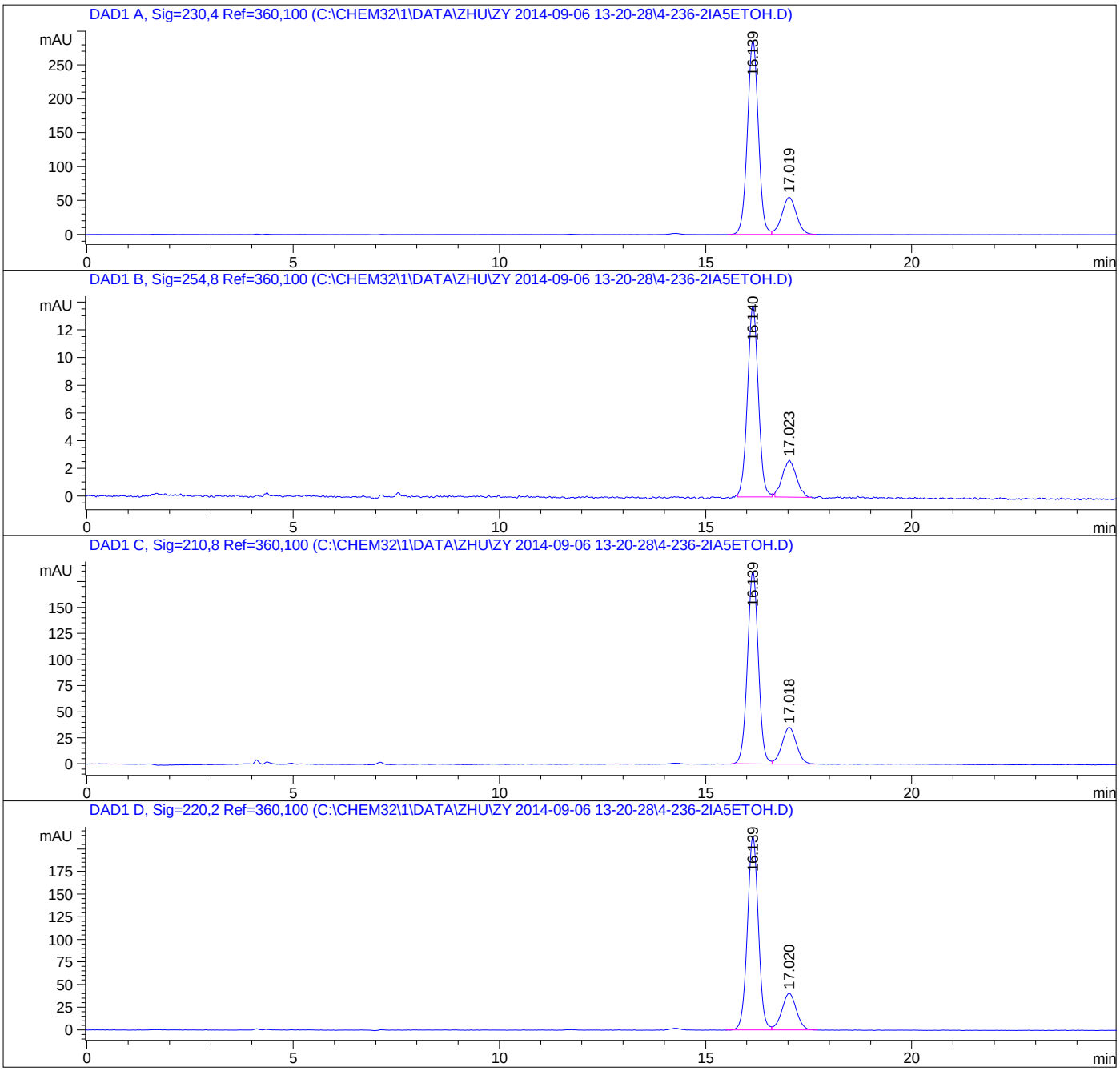
Data File C:\CHEM32\1\DATA\ZHU\ZY 2014-09-06 13-20-28\4-236-2IA5ETOH.D
Sample Name: 4-236-2

==========

Acq. Operator : RZ Seq. Line : 11
Acq. Instrument : Instrument 1 Location : Vial 52
Injection Date : 9/6/2014 5:24:48 PM Inj : 1
Inj Volume : 5 µl
Different Inj Volume from Sequence ! Actual Inj Volume : 2 µl
Acq. Method : C:\CHEM32\1\DATA\ZHU\ZY 2014-09-06 13-20-28\05-30ETOH.M
Last changed : 9/6/2014 5:23:32 PM by RZ
(modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\YMWHEXANES_PT8.M
Last changed : 9/6/2014 5:50:51 PM by RZ
(modified after loading)



3b'



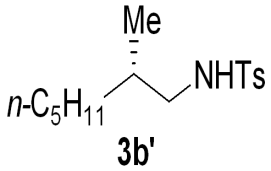
Data File C:\CHEM32\1\DATA\ZHU\ZY 2014-09-06 13-20-28\4-236-2IA5ETOH.D
Sample Name: 4-236-2

==========

Area Percent Report

==========

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



3b'

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	16.139	BV	0.2870	5278.73145	286.49783	79.6739
2	17.019	VB	0.3731	1346.68750	54.72157	20.3261
Totals :				6625.41895	341.21941	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	16.140	BB	0.2773	252.45903	13.80713	79.8894
2	17.023	BB	0.2895	63.55153	2.69117	20.1106
Totals :				316.01056	16.49830	

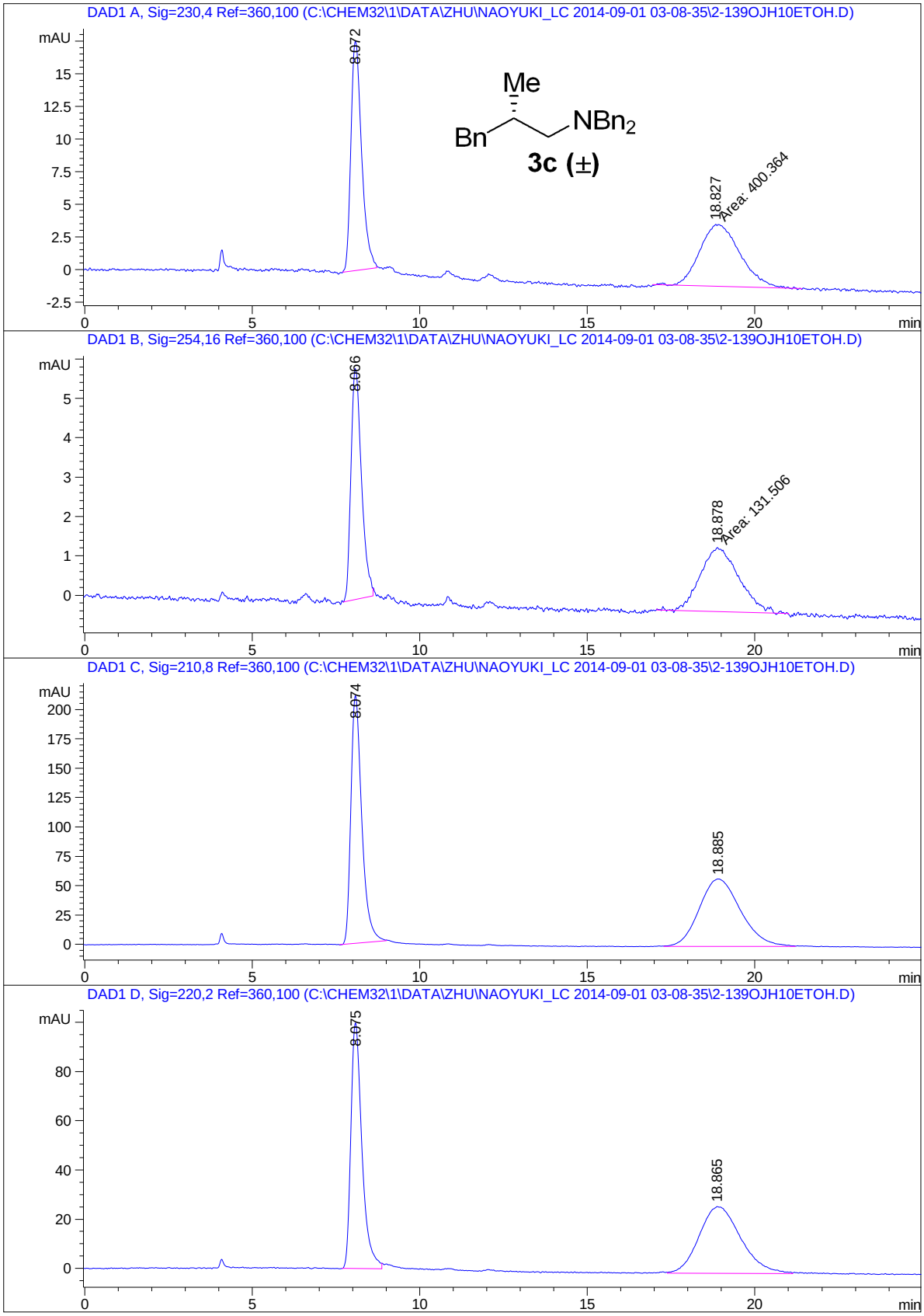
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	16.139	BV	0.2850	3410.14038	185.02925	79.7992
2	17.018	VB	0.3655	863.25922	35.28019	20.2008
Totals :				4273.39960	220.30944	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	16.139	VV	0.2852	3949.25146	214.12303	79.6812
2	17.020	VB	0.3705	1007.06543	40.72775	20.3188

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-09-01 03-08-35\2-139OJH10ETOH.D
Sample Name: 2-139



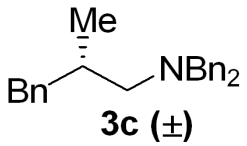
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-09-01 03-08-35\2-139OJH10ETOH.D
Sample Name: 2-139

==========

Area Percent Report

==========

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



3c (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.072	BB	0.3179	391.85367	17.59256	49.4629
2	18.827	MM	1.4010	400.36371	4.76289	50.5371
Totals :				792.21738	22.35545	

Signal 2: DAD1 B, Sig=254,16 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.066	BB	0.3285	128.04208	5.86973	49.3326
2	18.878	MM	1.3420	131.50638	1.63320	50.6674
Totals :				259.54846	7.50294	

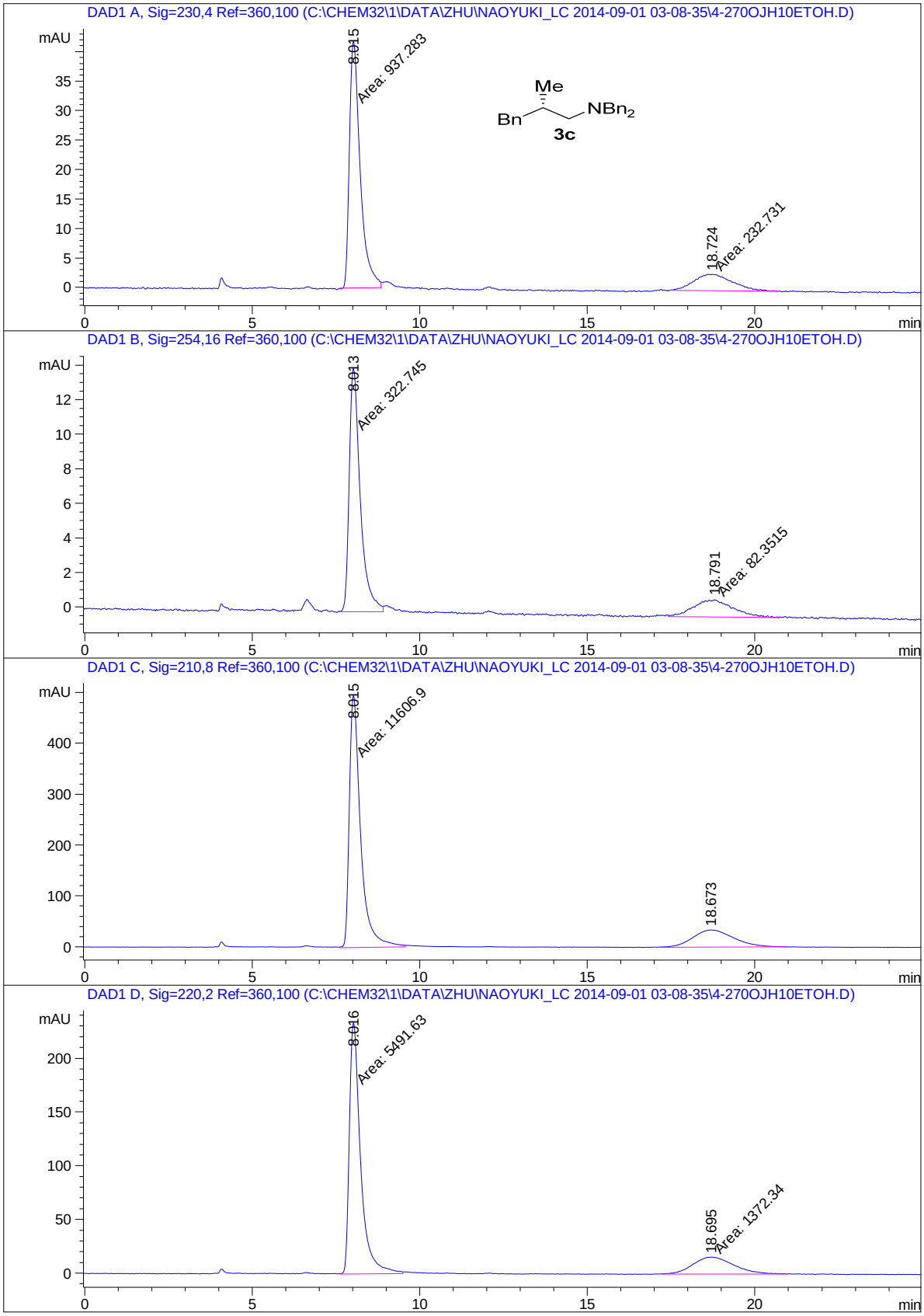
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.074	VB	0.3448	4790.39990	211.05370	49.0759
2	18.885	BB	1.0135	4970.79736	57.67714	50.9241
Totals :				9761.19727	268.73083	

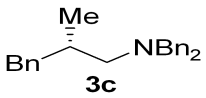
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.075	BB	0.3504	2300.24902	99.98483	49.4284
2	18.865	VV	1.0213	2353.45264	27.20514	50.5716

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-09-01 03-08-35\4-270OJH10ETOH.D
Sample Name: 4-270



Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-09-01 03-08-35\4-270OJH10ETOH.D
Sample Name: 4-270



3c

==========

Area Percent Report

==========

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

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.015	MF	0.3730	937.28253	41.88021	80.1087
2	18.724	MM	1.3706	232.73138	2.82997	19.8913
Totals :				1170.01392	44.71018	

Signal 2: DAD1 B, Sig=254,16 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.013	MF	0.3818	322.74484	14.08981	79.6711
2	18.791	FM	1.3685	82.35146	1.00292	20.3289
Totals :				405.09631	15.09272	

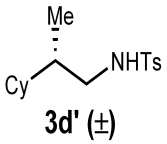
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.015	MM	0.3905	1.16069e4	495.32748	80.0140
2	18.673	VV	1.0088	2899.17065	33.93070	19.9860
Totals :				1.45060e4	529.25819	

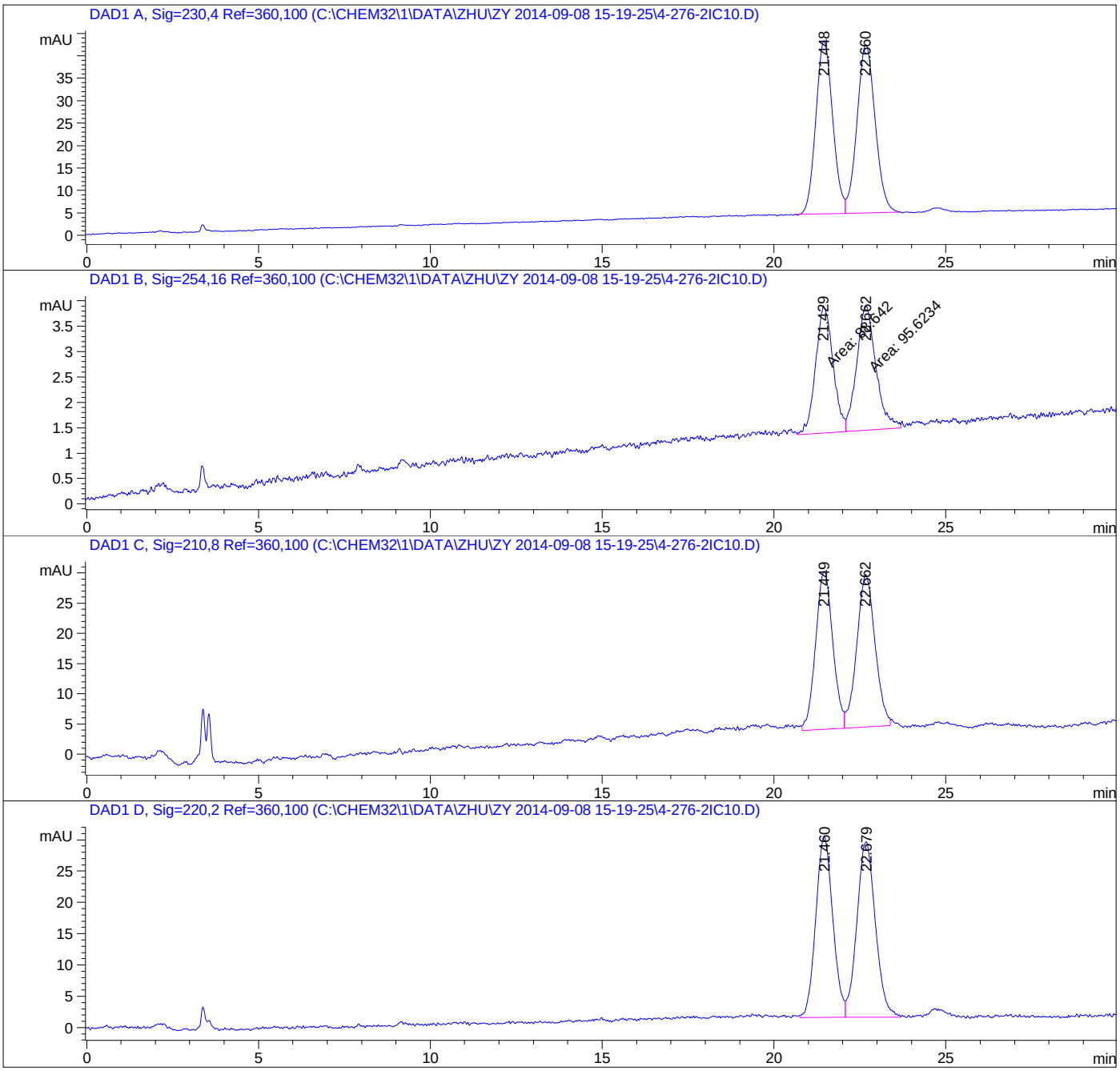
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.016	MM	0.3912	5491.62939	233.97594	80.0066
2	18.695	MM	1.4375	1372.34155	15.91173	19.9934

```
Data File C:\CHEM32\1\DATA\ZHU\ZY 2014-09-08 15-19-25\4-276-2IC10.D
Sample Name: 4-276-2RAC

    ======================================================================
    Acq. Operator   : TL                                 Seq. Line :  14
    Acq. Instrument : Instrument 1                        Location : Vial 51
    Injection Date  : 9/8/2014 8:16:26 PM                      Inj :   1
                                                       Inj Volume : 5 µl
    Different Inj Volume from Sequence !     Actual Inj Volume : 3 µl
    Acq. Method     : C:\CHEM32\1\DATA\ZHU\ZY 2014-09-08 15-19-25\10-60.M
    Last changed    : 9/8/2014 8:45:55 PM by TL
                      (modified after loading)
    Analysis Method : C:\CHEM32\1\METHODS\YMWHEXANES_PT8.M
    Last changed    : 9/6/2014 5:50:51 PM by RZ
                      (modified after loading)
```



3d' (±)



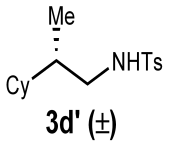
Data File C:\CHEM32\1\DATA\ZHU\ZY 2014-09-08 15-19-25\4-276-2IC10.D
Sample Name: 4-276-2RAC

==========

Area Percent Report

==========

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



3d' (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	21.448	BV	0.5012	1323.96375	38.68881	48.8469
2	22.660	VB	0.5269	1386.47290	37.54266	51.1531
Totals :				2710.43665	76.23147	

Signal 2: DAD1 B, Sig=254,16 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	21.429	MF	0.5877	88.64199	2.51401	48.1056
2	22.662	FM	0.6513	95.62343	2.44697	51.8944
Totals :				184.26542	4.96098	

Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	21.449	BV	0.4190	914.99231	26.22897	49.3110
2	22.662	VV	0.4455	940.56134	25.31572	50.6890
Totals :				1855.55365	51.54469	

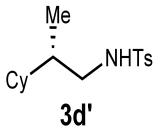
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	21.460	BV	0.4477	1001.33923	28.93911	48.6819
2	22.679	VV	0.4664	1055.56177	28.09043	51.3181

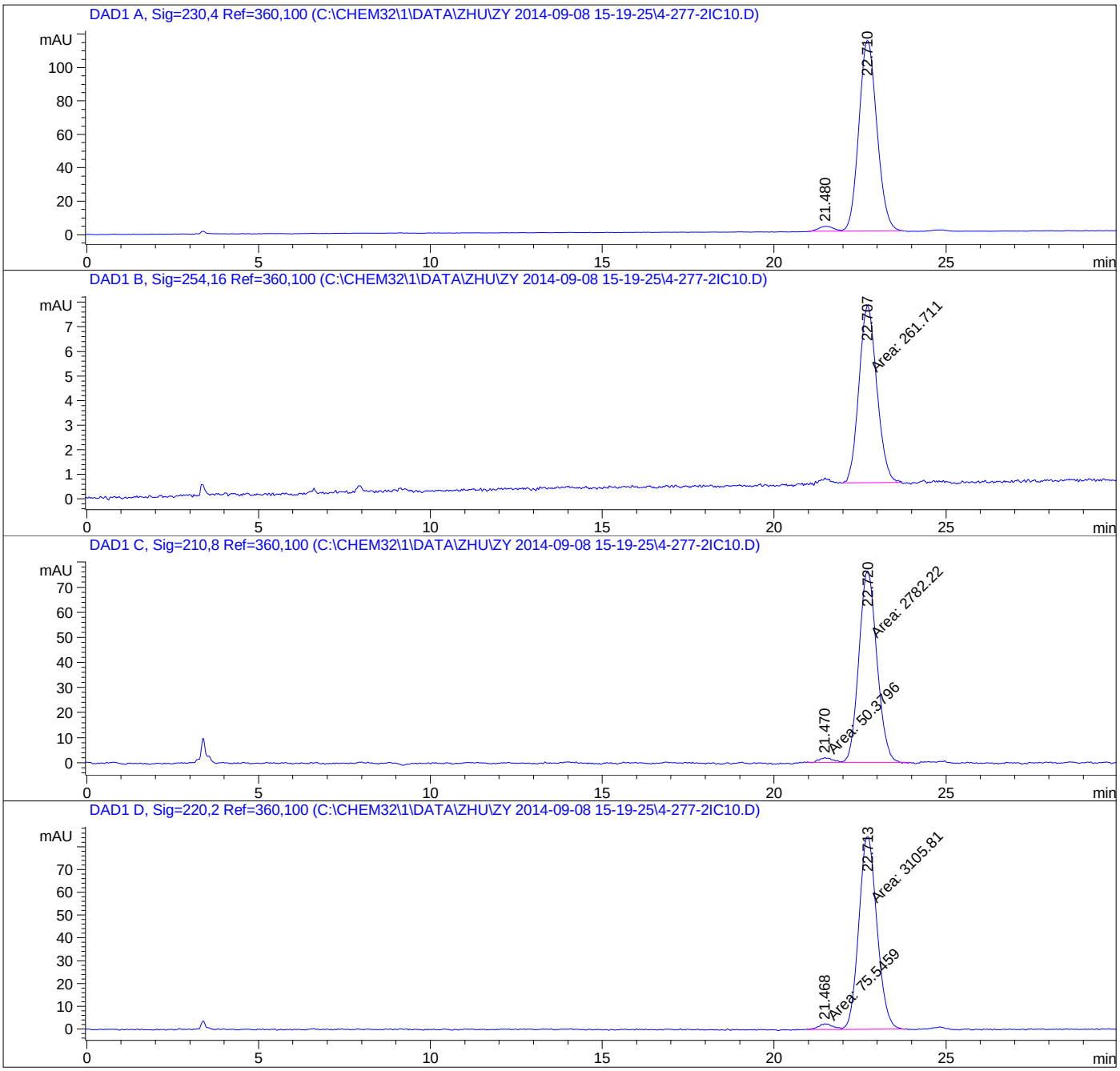
Data File C:\CHEM32\1\DATA\ZHU\ZY 2014-09-08 15-19-25\4-277-2IC10.D
Sample Name: 4-277-2

==========

Acq. Operator : TL Seq. Line : 16
Acq. Instrument : Instrument 1 Location : Vial 52
Injection Date : 9/8/2014 9:08:23 PM Inj : 1
Inj Volume : 5 µl
Different Inj Volume from Sequence ! Actual Inj Volume : 3 µl
Acq. Method : C:\CHEM32\1\DATA\ZHU\ZY 2014-09-08 15-19-25\10-60.M
Last changed : 9/8/2014 9:07:24 PM by TL
(modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\YMWHEXANES_PT8.M
Last changed : 9/6/2014 5:50:51 PM by RZ
(modified after loading)



3d'



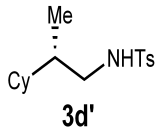
Data File C:\CHEM32\1\DATA\ZHU\ZY 2014-09-08 15-19-25\4-277-2IC10.D
Sample Name: 4-277-2

==========

Area Percent Report

==========

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



3d'

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	21.480	BV	0.3713	94.56521	3.03636	2.2150
2	22.710	VB	0.5526	4174.69287	114.16002	97.7850
Totals :				4269.25808	117.19638	

Signal 2: DAD1 B, Sig=254,16 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	22.707	FM	0.6052	261.71143	7.20776	100.0000
Totals :				261.71143	7.20776	

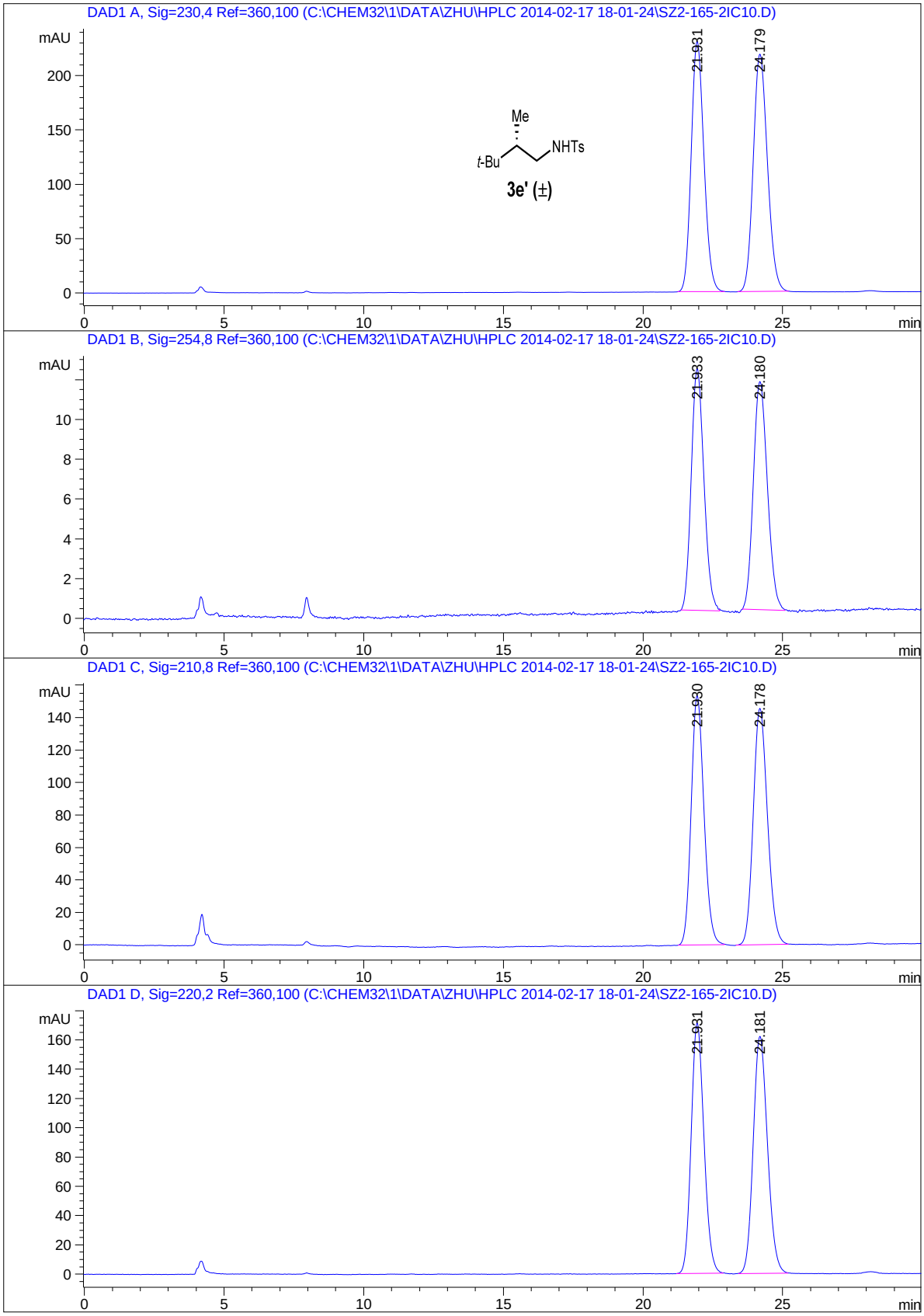
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	21.470	MF	0.4297	50.37959	1.95393	1.7786
2	22.720	FM	0.6080	2782.22314	76.26334	98.2214
Totals :				2832.60273	78.21726	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	21.468	MF	0.5020	75.54588	2.50806	2.3746
2	22.713	FM	0.6118	3105.80957	84.60500	97.6254

Data File C:\CHEM32\1\DATA\ZHU\HPLC 2014-02-17 18-01-24\SZ2-165-2IC10.D
Sample Name: SZ2-165-2RAC



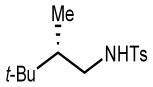
Data File C:\CHEM32\1\DATA\ZHU\HPLC 2014-02-17 18-01-24\SZ2-165-2IC10.D
Sample Name: SZ2-165-2RAC

==========

Area Percent Report

==========

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



3e' (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	21.931	BB	0.4882	7317.35791	230.62767	48.5844
2	24.179	BB	0.5471	7743.75879	218.70587	51.4156
Totals :				1.50611e4	449.33354	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	21.933	BB	0.4562	383.48392	12.15179	48.8088
2	24.180	BB	0.4471	402.20132	11.47009	51.1912
Totals :				785.68524	23.62188	

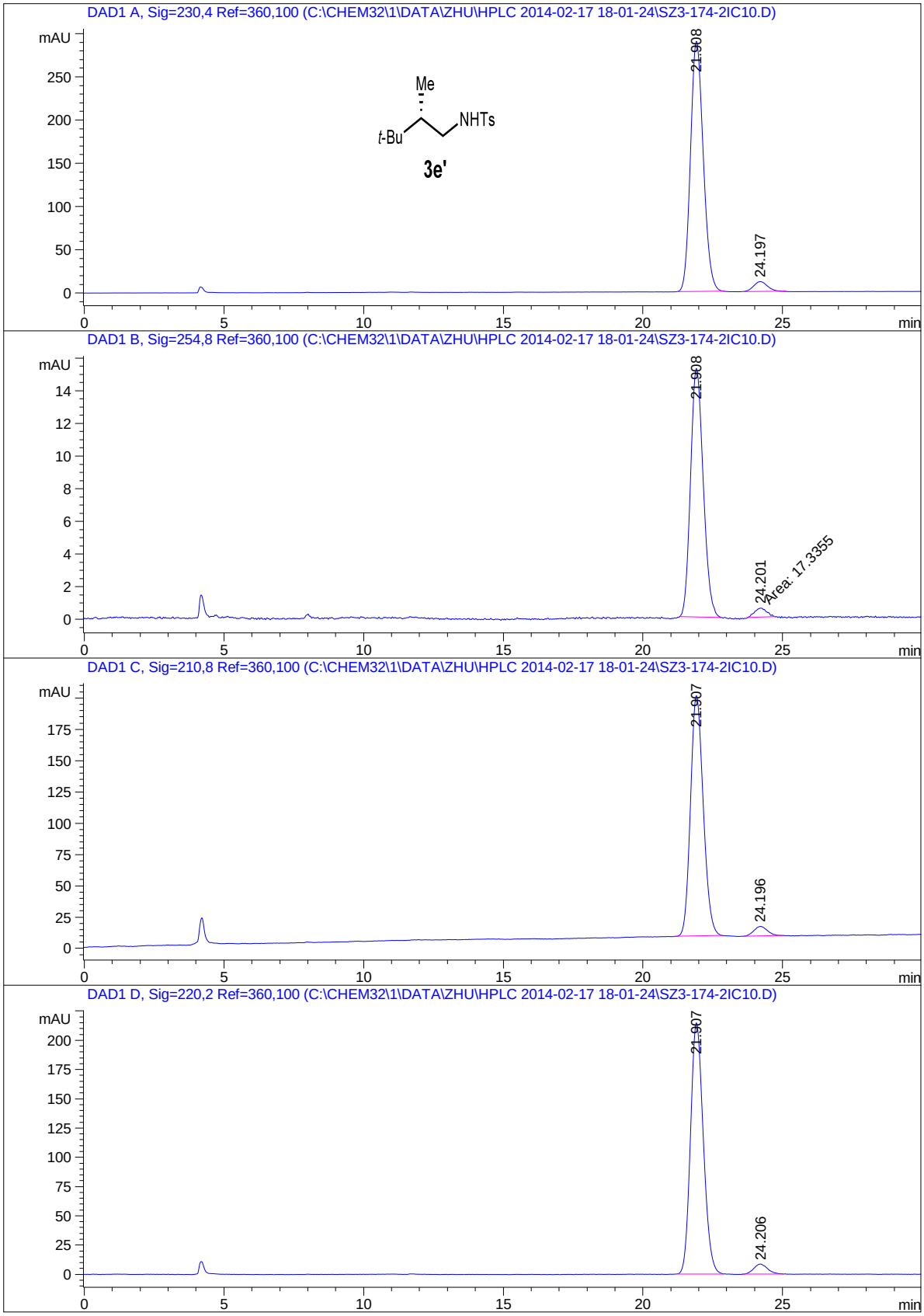
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	21.930	BB	0.4915	4891.11475	153.60268	48.6653
2	24.178	BB	0.5314	5159.40088	145.61386	51.3347
Totals :				1.00505e4	299.21654	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	21.931	BB	0.4966	5437.40967	171.18584	48.6119
2	24.181	BB	0.5380	5747.94189	161.99554	51.3881

Data File C:\CHEM32\1\DATA\ZHU\HPLC 2014-02-17 18-01-24\SZ3-174-2IC10.D
Sample Name: SZ3-174-2



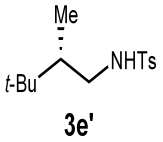
Data File C:\CHEM32\1\DATA\ZHU\HPLC 2014-02-17 18-01-24\SZ3-174-2IC10.D
Sample Name: SZ3-174-2

==========

Area Percent Report

==========

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



3e'

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	21.908	BB	0.4915	9219.32715	289.50287	95.6801
2	24.197	BB	0.4645	416.24762	11.66099	4.3199
Totals :				9635.57477	301.16386	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	21.908	BB	0.4311	481.52094	15.21877	96.5250
2	24.201	MM	0.5116	17.33550	5.64694e-1	3.4750
Totals :				498.85644	15.78346	

Signal 3: DAD1 C, Sig=210,8 Ref=360,100

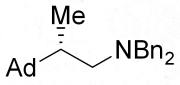
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	21.907	BB	0.4996	6119.29785	192.13991	95.8429
2	24.196	BB	0.4208	265.41943	7.68719	4.1571
Totals :				6384.71729	199.82709	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

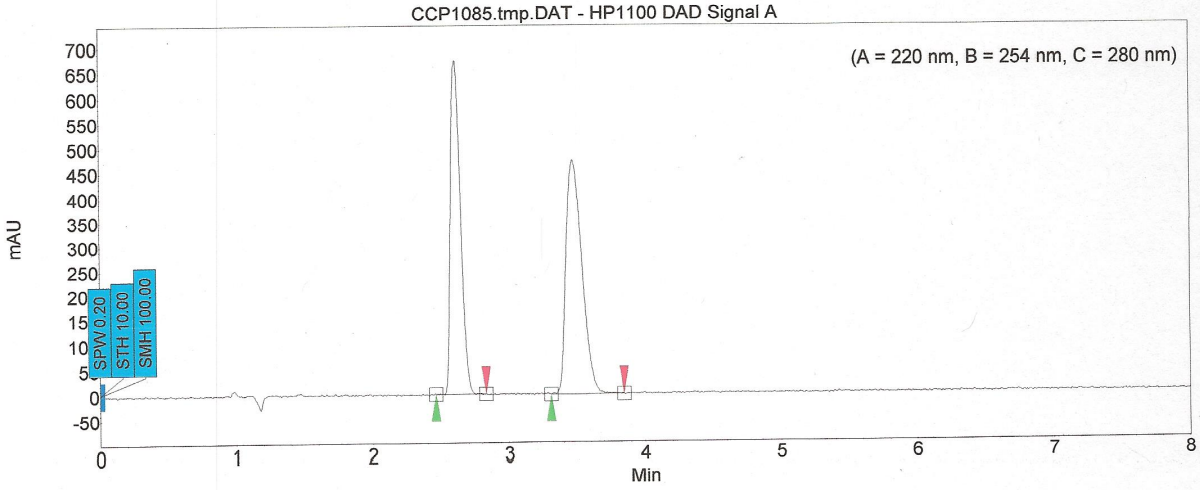
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	21.907	BB	0.4838	6841.97510	214.69519	95.7099
2	24.206	BV	0.4340	306.68539	8.68374	4.2901

Filename: 3-190 rac file# 2

6/17/2014 12:38:56 PM
Analyst: Administrator
Method: 01-Default2
Conditions: OJ-H (25 x 0.46cm), 20% ethanol(DEA)/CO2, 100 bar, 3 mL/min.



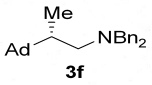
3f (±)



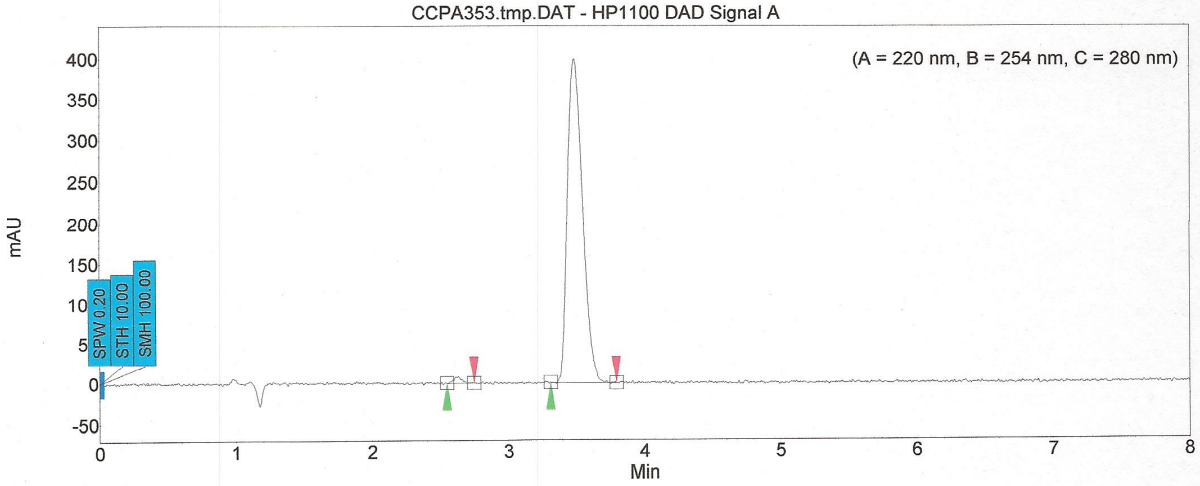
Index	Time	Width	Height	Res. HW	Selectivity	Area	Area
	[Min]	[Min]	[µV]			[µV.Min]	[%]
1	2.62	0.08	674.3	0.00	0.00	57.0	47.084
2	3.48	0.13	475.4	4.83	1.33	64.1	52.916
Total			1149.6			121.2	100.000

Filename: 3-216 opt file# 3

6/17/2014 12:59:05 PM
Analyst: Administrator
Method: 01-Default2
Conditions: OJ-H (25 x 0.46cm), 20% ethanol(DEA)/CO2, 100 bar, 3 mL/min.

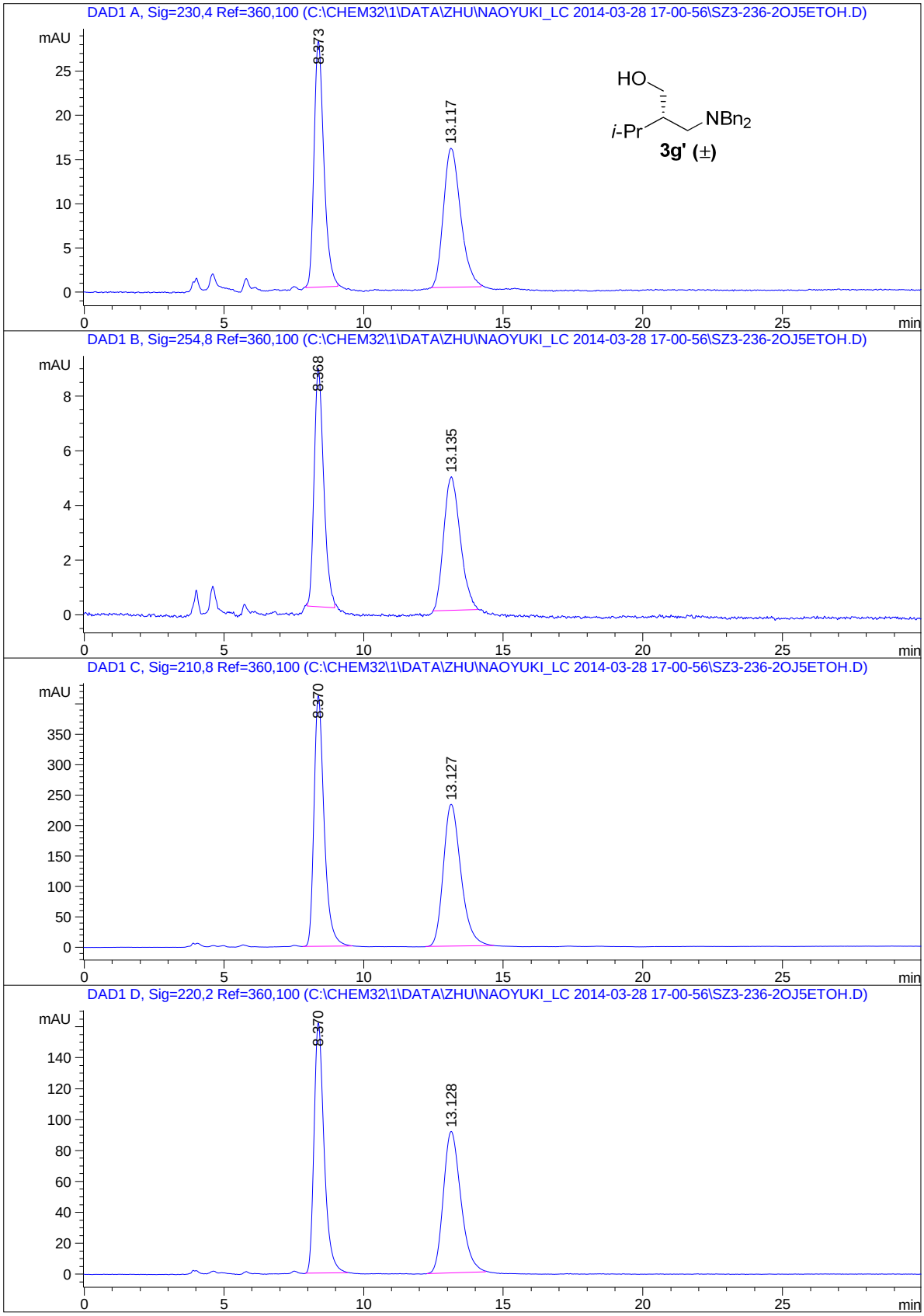


3f



Index	Time	Width	Height	Res. HW	Selectivity	Area	Area
	[Min]	[Min]	[µV]			[µV.Min]	[%]
1	2.63	0.06	8.1	0.00	0.00	0.6	1.072
2	3.49	0.12	399.5	5.54	1.32	51.7	98.928
Total			407.6			52.2	100.000

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-03-28 17-00-56\SZ3-236-2OJ5ETOH.D
Sample Name: 3-236-2RAC



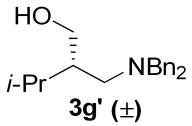
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-03-28 17-00-56\SZ3-236-2OJ5ETOH.D
Sample Name: 3-236-2RAC

==========

Area Percent Report

==========

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



3g' (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.373	BB	0.3710	680.23718	27.84896	50.1878
2	13.117	BB	0.5254	675.14734	15.77333	49.8122
Totals :				1355.38452	43.62230	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.368	BB	0.3490	206.90419	8.71283	50.5707
2	13.135	BB	0.4939	202.23465	4.89609	49.4293
Totals :				409.13884	13.60892	

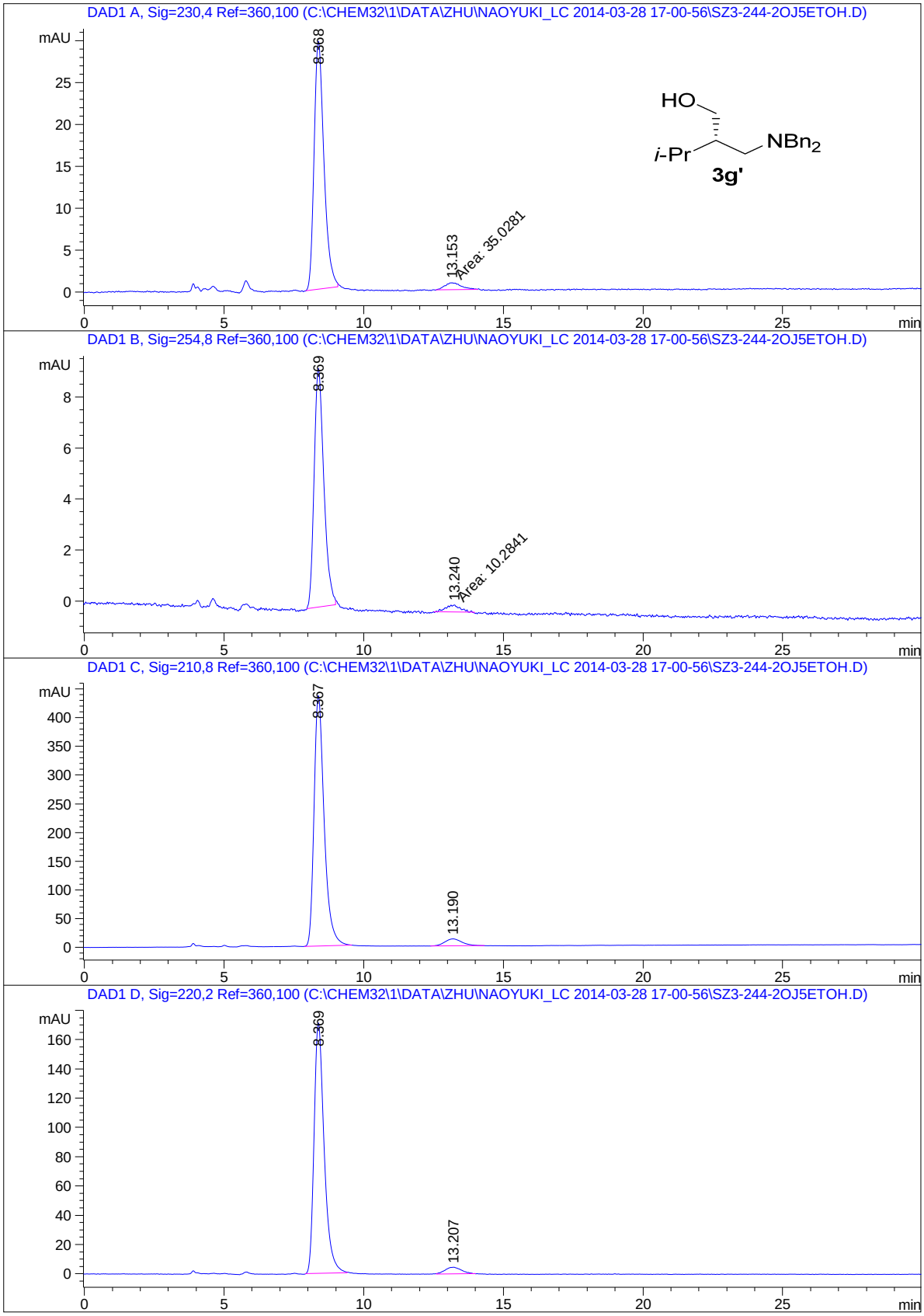
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.370	VB	0.3840	1.03759e4	411.70651	50.2611
2	13.127	BB	0.6672	1.02681e4	233.44797	49.7389
Totals :				2.06441e4	645.15448	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.370	BB	0.3784	4059.01685	161.94374	50.4442
2	13.128	BB	0.6199	3987.53027	91.59927	49.5558

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-03-28 17-00-56\SZ3-244-2OJ5ETOH.D
Sample Name: 3-244-2



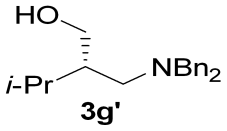
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-03-28 17-00-56\SZ3-244-2OJ5ETOH.D
Sample Name: 3-244-2

==========

Area Percent Report

==========

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



3g'

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.368	BB	0.3761	725.45667	29.58007	95.3940
2	13.153	MM	0.6874	35.02814	8.49343e-1	4.6060
Totals :				760.48480	30.42941	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.369	BB	0.3504	226.85265	9.37260	95.6632
2	13.240	MM	0.6111	10.28411	2.80478e-1	4.3368
Totals :				237.13676	9.65308	

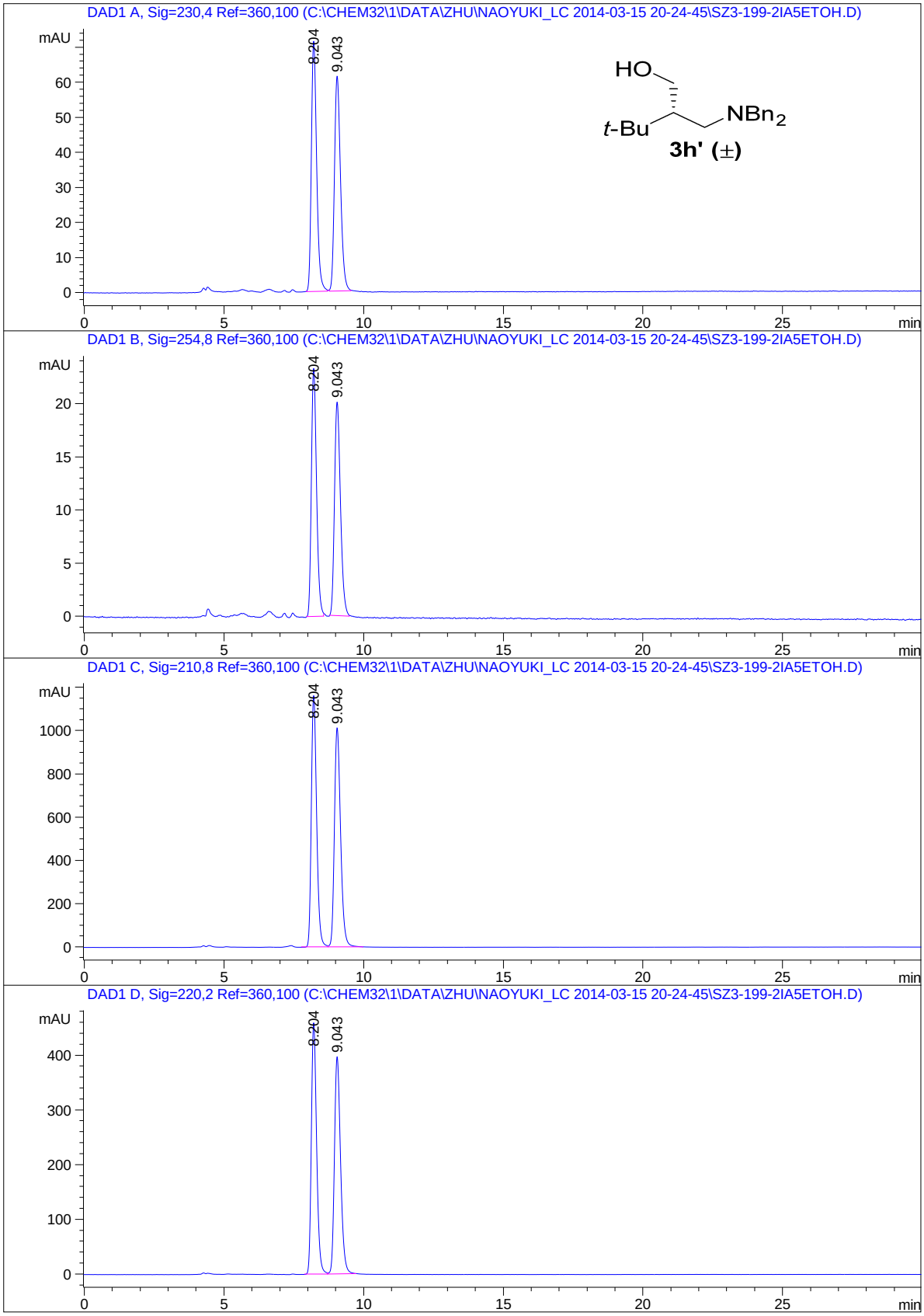
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.367	BB	0.3848	1.10249e4	436.25629	95.4133
2	13.190	BB	0.5166	529.98138	12.25428	4.5867
Totals :				1.15549e4	448.51056	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.369	BB	0.3813	4307.54736	171.31474	95.6548
2	13.207	BV	0.5007	195.67372	4.67162	4.3452

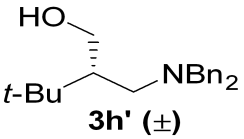
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-03-15 20-24-45\SZ3-199-2IA5ETOH.D
Sample Name: 3-199-2RAC



Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-03-15 20-24-45\SZ3-199-2IA5ETOH.D
Sample Name: 3-199-2RAC

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

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



3h' (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.204	BB	0.2015	939.65851	71.41203	50.3905
2	9.043	BB	0.2319	925.09442	61.34826	49.6095
Totals :				1864.75293	132.76029	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.204	BB	0.1981	300.35788	23.34254	50.1144
2	9.043	BB	0.2276	298.98682	20.09710	49.8856
Totals :				599.34470	43.43964	

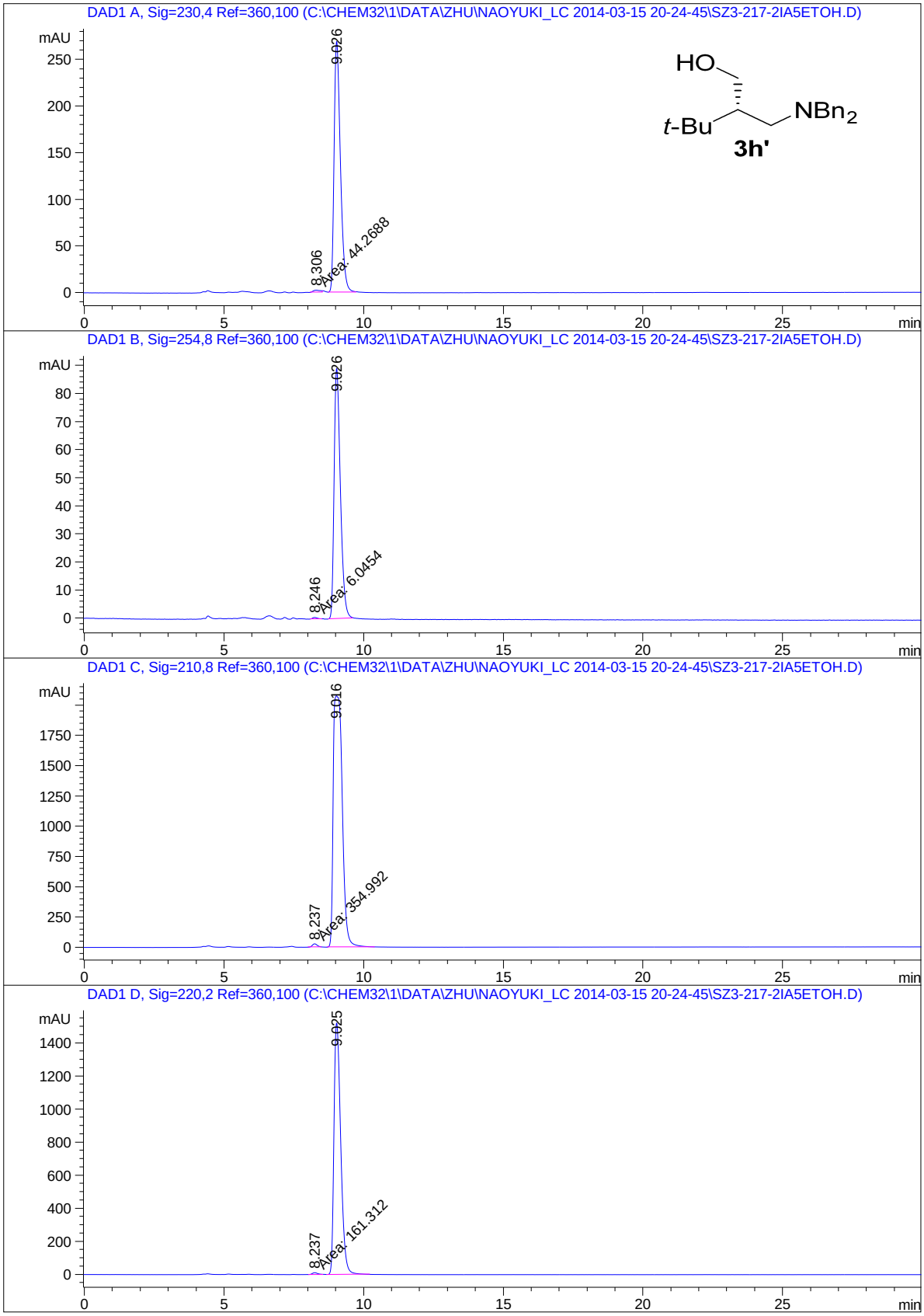
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.204	VV	0.2061	1.53704e4	1163.38965	49.5978
2	9.043	VB	0.2358	1.56197e4	1013.75104	50.4022
Totals :				3.09901e4	2177.14069	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.204	BV	0.2007	6017.65625	459.75278	49.8030
2	9.043	VB	0.2342	6065.25342	397.14398	50.1970

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-03-15 20-24-45\SZ3-217-2IA5ETOH.D
Sample Name: 3-217-2



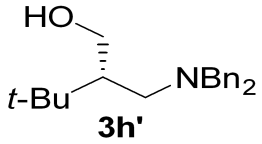
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-03-15 20-24-45\SZ3-217-2IA5ETOH.D
Sample Name: 3-217-2

==========

Area Percent Report

==========

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



3h'

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.306	MF	0.3200	44.26880	2.30570	1.0379
2	9.026	VB	0.2411	4220.97852	269.00668	98.9621
Totals :				4265.24732	271.31238	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.246	MF	0.1909	6.04540	5.27715e-1	0.4326
2	9.026	BB	0.2382	1391.52185	89.10548	99.5674
Totals :				1397.56725	89.63320	

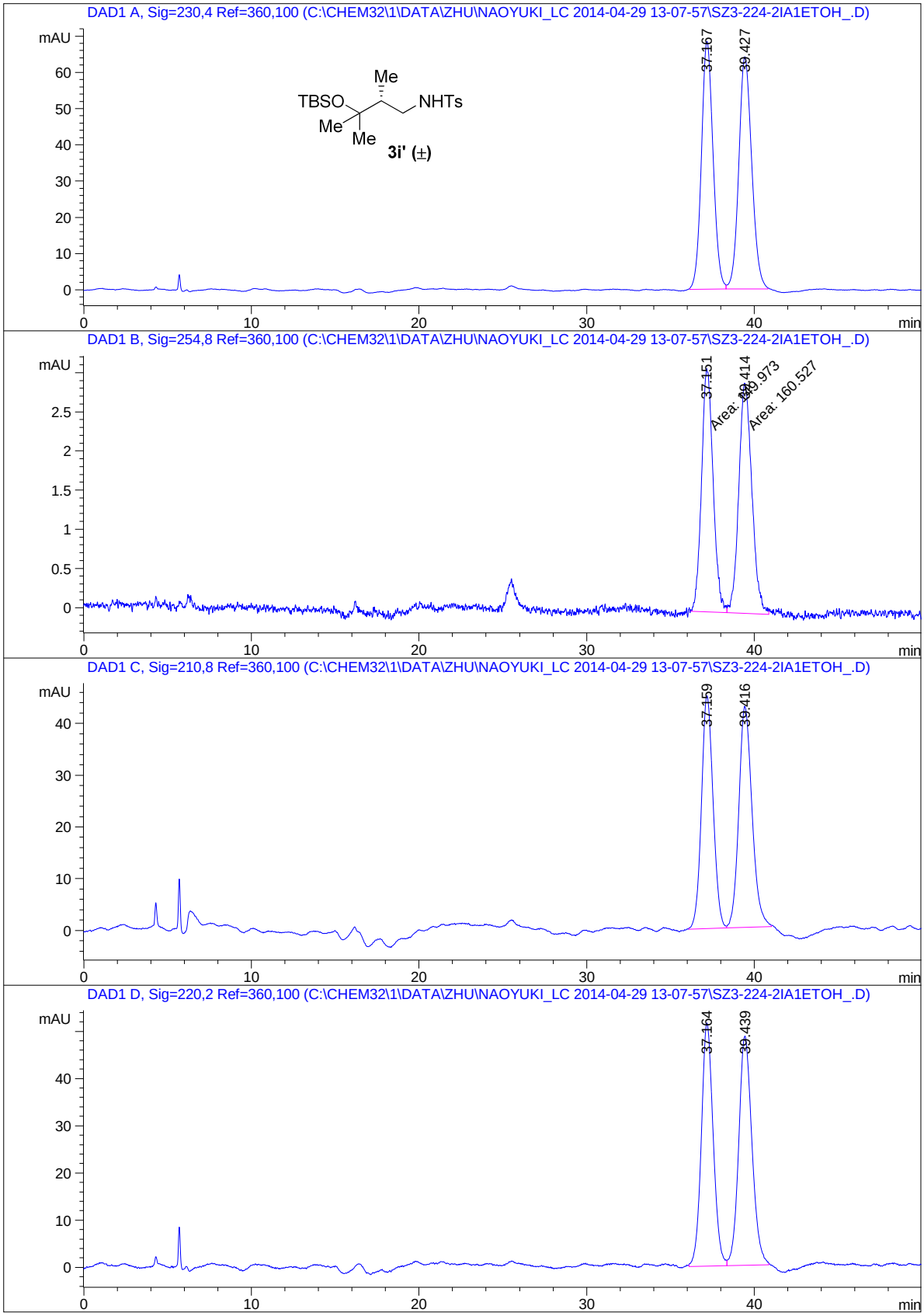
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.237	MF	0.2133	354.99210	27.73767	0.7525
2	9.016	BB	0.3072	4.68229e4	2075.79932	99.2475
Totals :				4.71779e4	2103.53699	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.237	MF	0.2383	161.31218	11.28305	0.6259
2	9.025	VB	0.2603	2.56111e4	1521.89282	99.3741

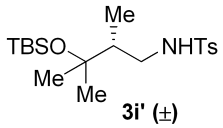
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-04-29 13-07-57\SZ3-224-2IA1ETOH_.D
Sample Name: 3-224-2RAC



Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-04-29 13-07-57\SZ3-224-2IA1ETOH_.D
Sample Name: 3-224-2RAC

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

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



3i' (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	37.167	BV	0.7146	3311.77173	68.43837	49.0088
2	39.427	VB	0.7871	3445.72852	64.10558	50.9912
Totals :				6757.50024	132.54395	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	37.151	MF	0.8029	149.97324	3.11318	48.3006
2	39.414	FM	0.9071	160.52666	2.94952	51.6994
Totals :				310.49989	6.06270	

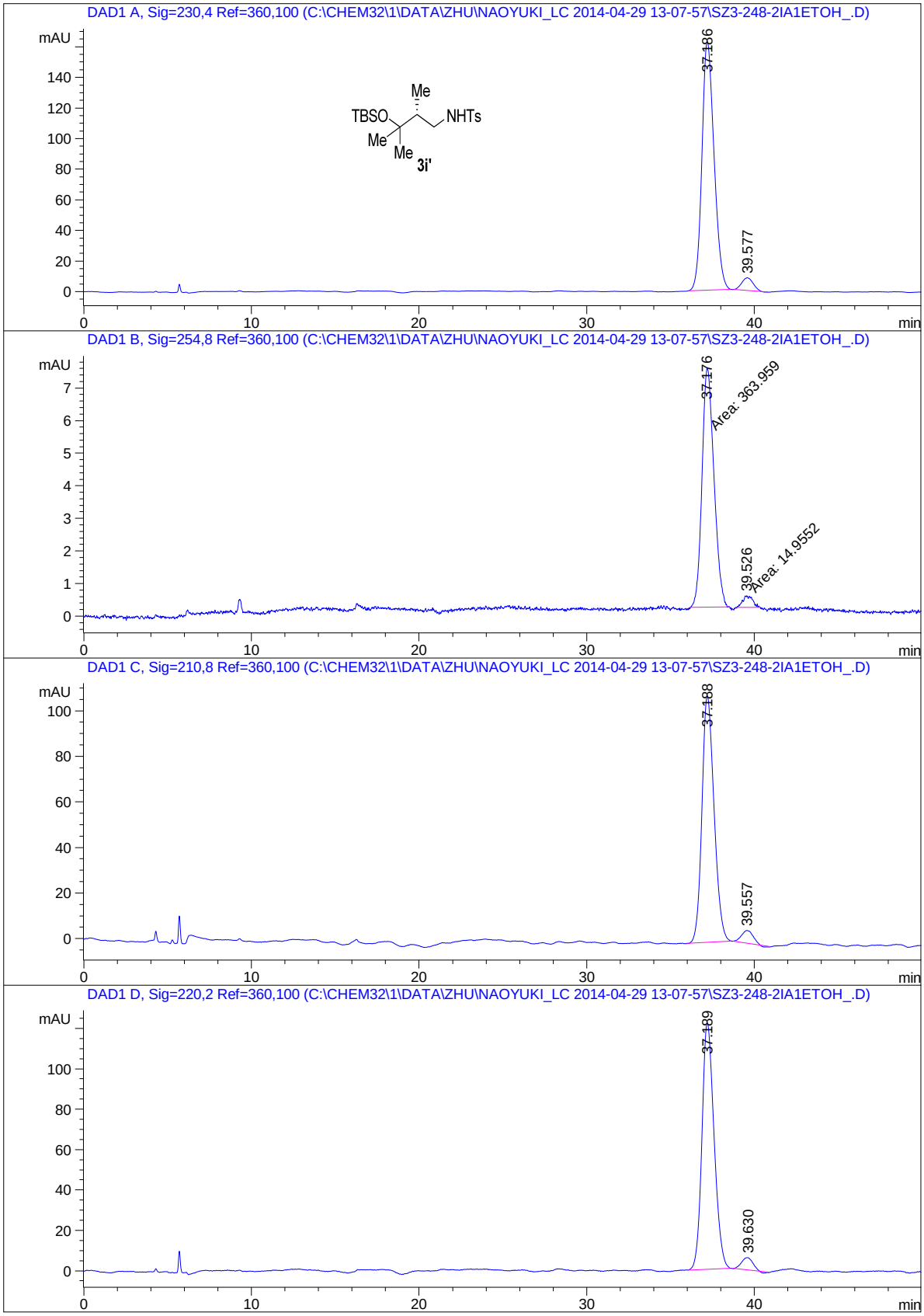
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	37.159	BV	0.6461	2178.37427	45.05362	48.0833
2	39.416	VB	0.6517	2352.04053	42.76493	51.9167
Totals :				4530.41479	87.81855	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	37.164	BV	0.6573	2534.46411	51.57653	48.7080
2	39.439	VB	0.6845	2668.91870	48.61504	51.2920

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-04-29 13-07-57\SZ3-248-2IA1ETOH_.D
Sample Name: 3-248-2



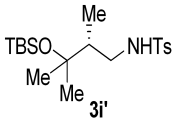
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-04-29 13-07-57\SZ3-248-2IA1ETOH_.D
Sample Name: 3-248-2

==========

Area Percent Report

==========

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



3i'

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	37.186	BB	0.7661	8172.57520	162.68796	95.3867
2	39.577	BB	0.5693	395.25748	8.36450	4.6133
Totals :				8567.83267	171.05246	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	37.176	MM	0.8274	363.95905	7.33125	96.0531
2	39.526	MM	0.6938	14.95520	3.59273e-1	3.9469
Totals :				378.91424	7.69053	

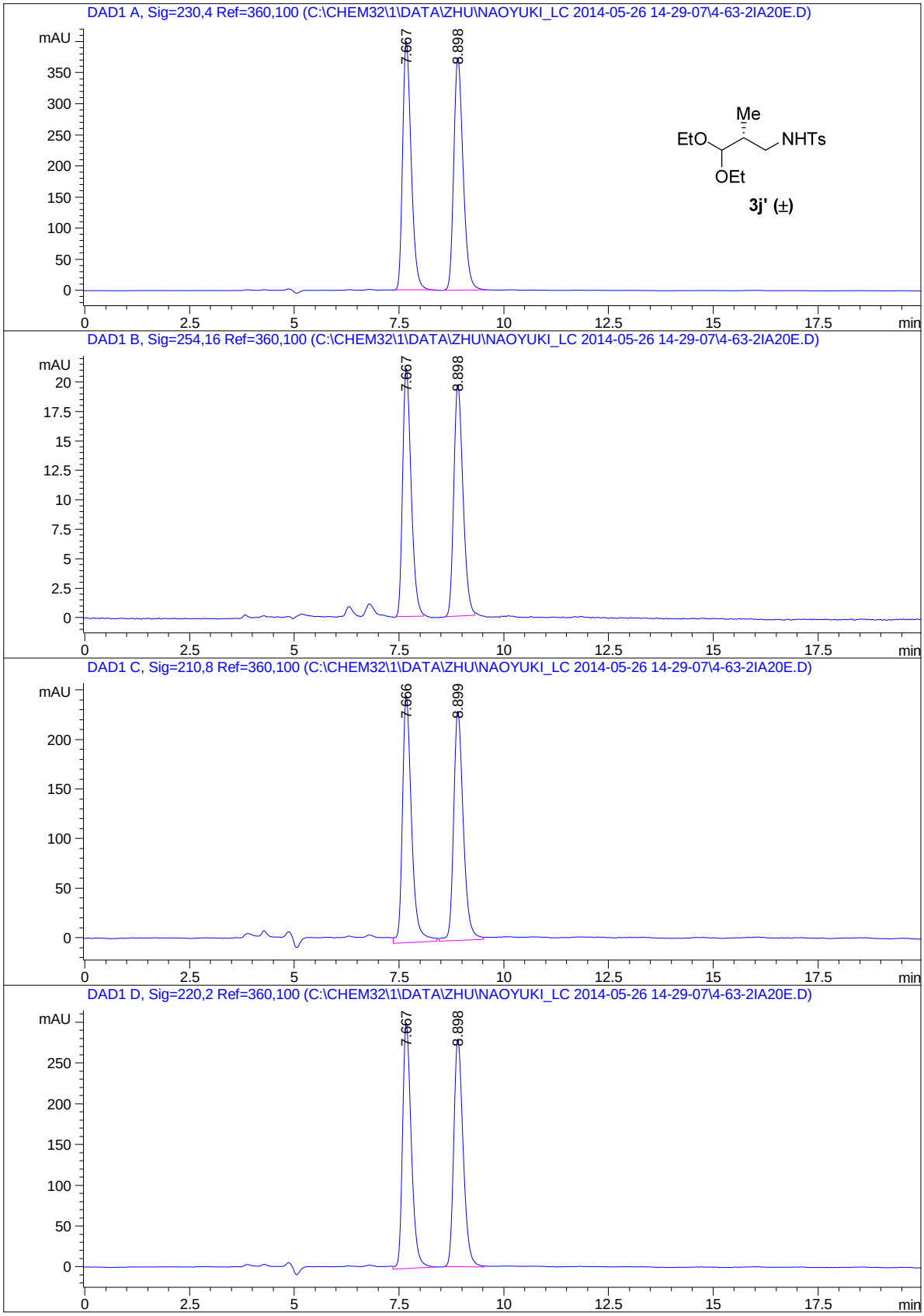
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	37.188	BB	0.7105	5445.63281	108.31601	95.2927
2	39.557	BB	0.5658	269.00684	5.66710	4.7073
Totals :				5714.63965	113.98311	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	37.189	BB	0.7105	6138.13037	122.09863	95.6581
2	39.630	BB	0.5389	278.60617	6.16874	4.3419

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-05-26 14-29-07\4-63-2IA20E.D
Sample Name: 4-63-2RAC



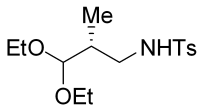
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-05-26 14-29-07\4-63-2IA20E.D
Sample Name: 4-63-2RAC

==========

Area Percent Report

==========

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



3j' (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.667	BB	0.2200	5690.02100	399.98007	49.5394
2	8.898	BB	0.2390	5795.81836	373.62360	50.4606
Totals :				1.14858e4	773.60367	

Signal 2: DAD1 B, Sig=254,16 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.667	BB	0.2210	297.95181	21.06805	49.8197
2	8.898	BB	0.2341	300.10822	19.66439	50.1803
Totals :				598.06003	40.73244	

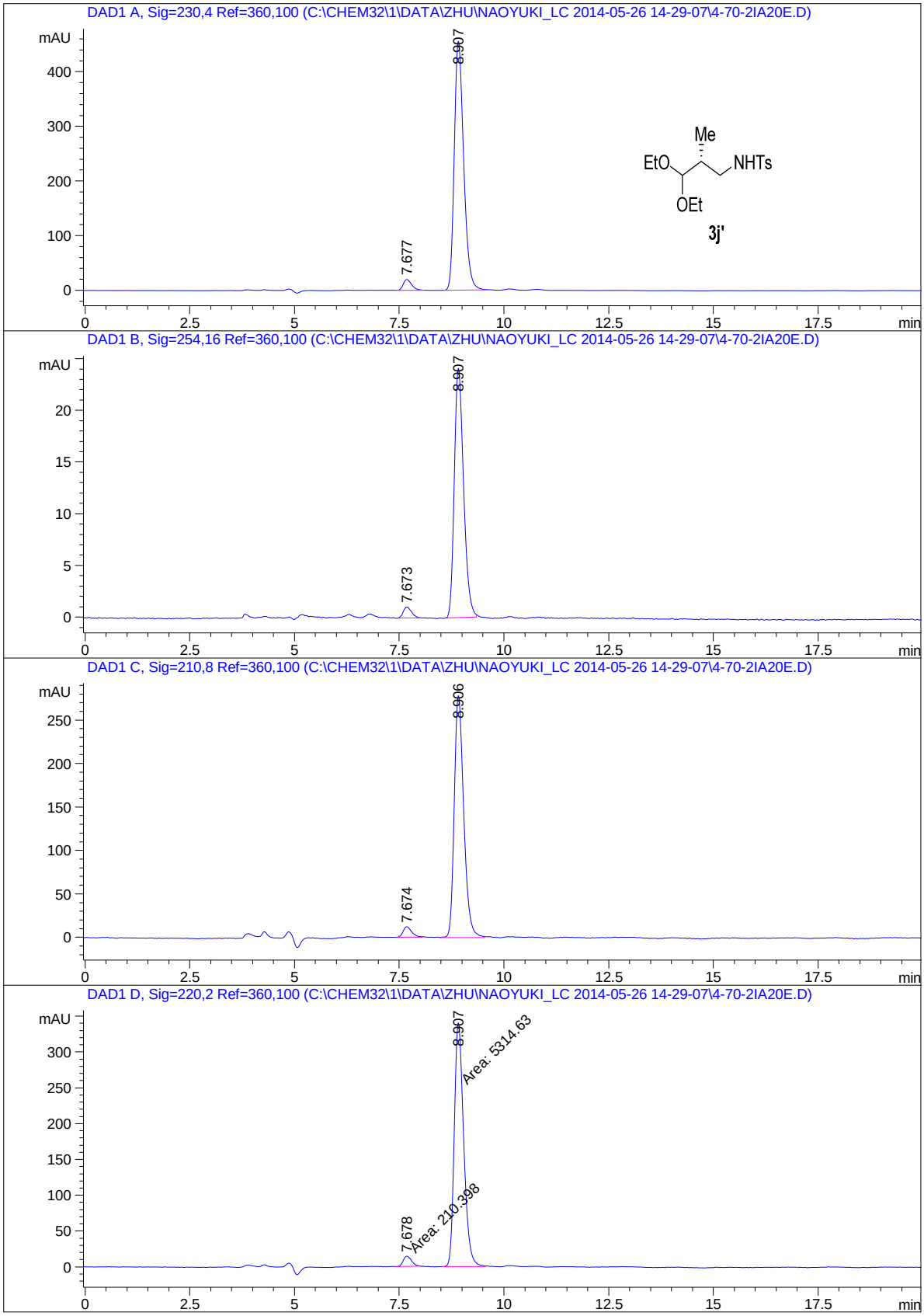
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.666	BB	0.2310	3783.84863	249.42395	50.3857
2	8.899	BV	0.2497	3725.92407	231.53893	49.6143
Totals :				7509.77271	480.96288	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.667	VB	0.2218	4388.61816	301.56210	50.1572
2	8.898	BB	0.2378	4361.10400	279.79199	49.8428

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-05-26 14-29-07\4-70-2IA20E.D
Sample Name: 4-70-2



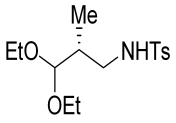
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-05-26 14-29-07\4-70-2IA20E.D
Sample Name: 4-70-2

==========

Area Percent Report

==========

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



3j'

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.677	BB	0.2170	279.71277	19.77936	3.7955
2	8.907	BB	0.2415	7089.78662	455.67532	96.2045
Totals :				7369.49939	475.45468	

Signal 2: DAD1 B, Sig=254,16 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.673	BB	0.1873	14.41707	1.05580	3.7438
2	8.907	BB	0.2394	370.67987	24.10246	96.2562
Totals :				385.09694	25.15826	

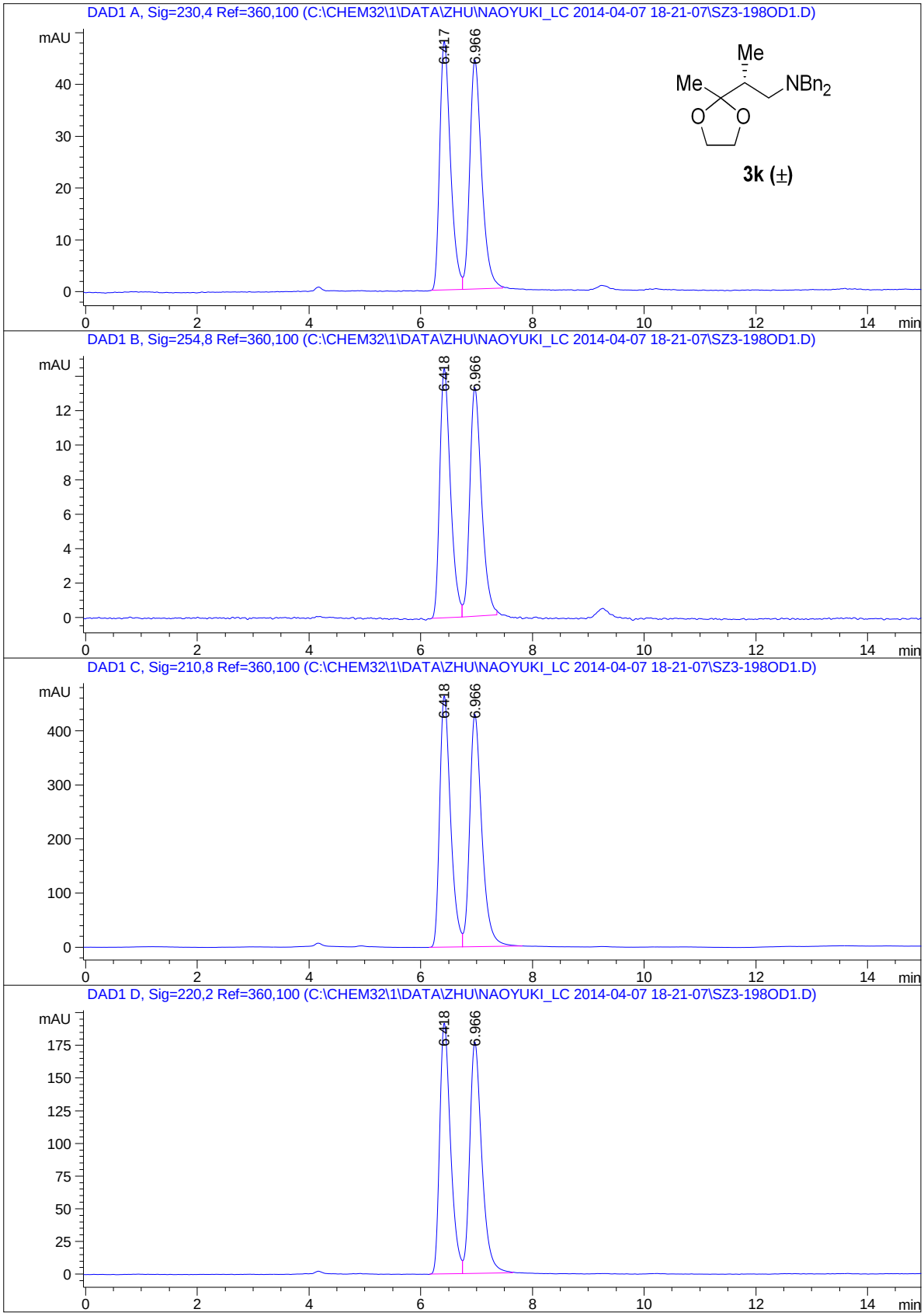
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.674	BB	0.2150	184.35272	12.29248	4.0392
2	8.906	VB	0.2435	4379.72705	278.44070	95.9608
Totals :				4564.07977	290.73318	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.678	MM	0.2409	210.39832	14.55683	3.8081
2	8.907	MM	0.2601	5314.62842	340.55402	96.1919

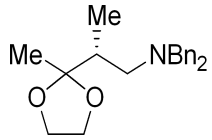
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-04-07 18-21-07\SZ3-198OD1.D
Sample Name: 3-198RAC



Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-04-07 18-21-07\SZ3-198OD1.D
Sample Name: 3-198RAC

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

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



3k (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.417	BV	0.2063	643.38898	48.03854	49.5648
2	6.966	VB	0.2265	654.68835	44.26672	50.4352
Totals :				1298.07733	92.30525	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.418	BV	0.2037	193.45749	14.49752	49.8870
2	6.966	VB	0.2245	194.33409	13.29823	50.1130
Totals :				387.79158	27.79576	

Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.418	BV	0.2052	6258.90088	464.38293	49.1241
2	6.966	VB	0.2301	6482.09814	429.33160	50.8759
Totals :				1.27410e4	893.71454	

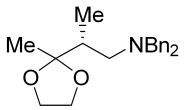
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.418	BV	0.2072	2586.92065	192.04288	49.2740
2	6.966	VB	0.2275	2663.15552	177.02283	50.7260

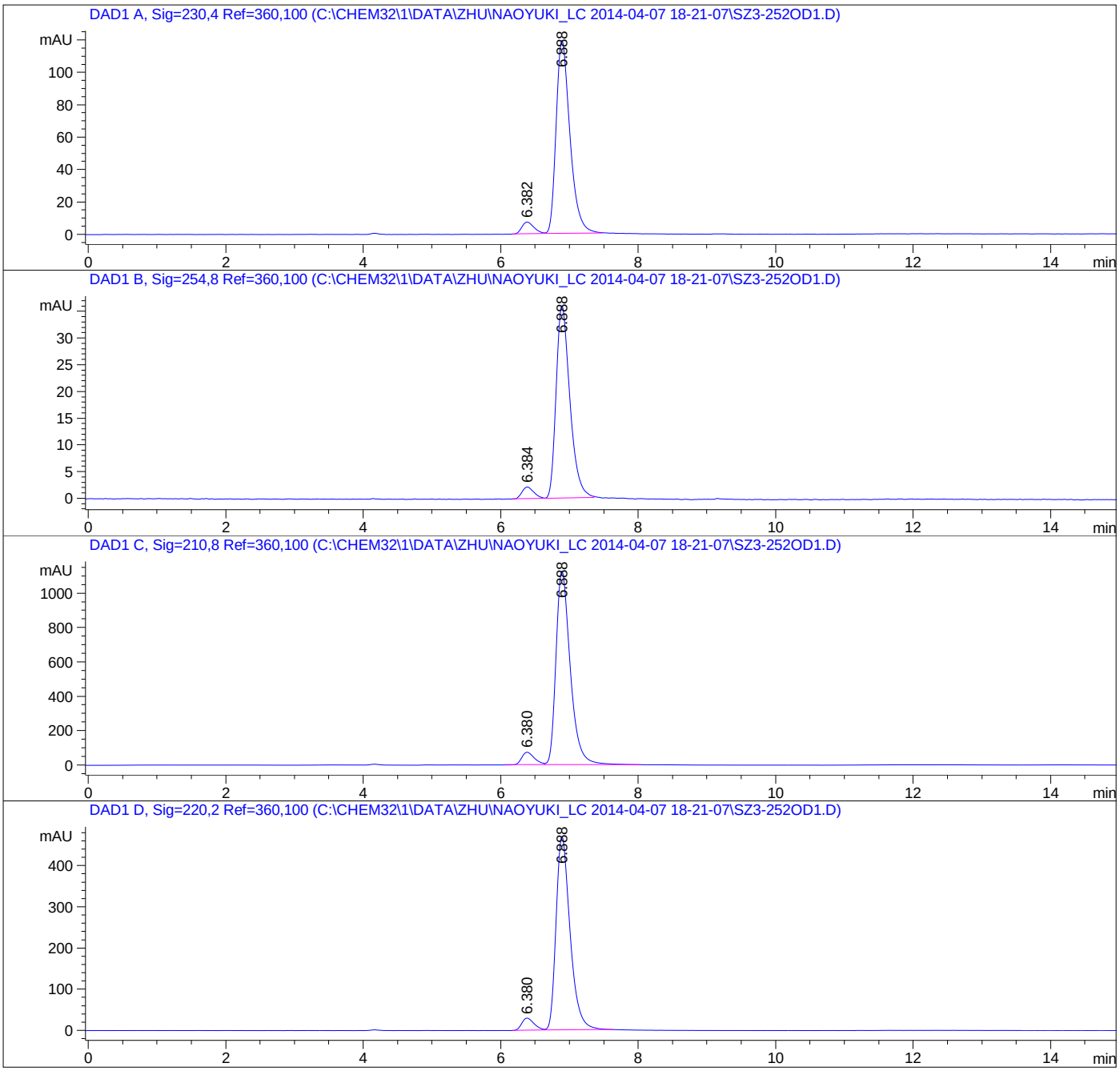
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-04-07 18-21-07\SZ3-252OD1.D
Sample Name: 3-252

==========

Acq. Operator : YMW Seq. Line : 3
Acq. Instrument : Instrument 1 Location : Vial 71
Injection Date : 4/7/2014 7:05:08 PM Inj : 1
Inj Volume : 5 µl
Different Inj Volume from Sequence ! Actual Inj Volume : 3 µl
Acq. Method : C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-04-07 18-21-07\01-30.M
Last changed : 4/7/2014 7:12:51 PM by YMW
(modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\YMWHEXANES_PT8.M
Last changed : 9/22/2014 2:11:03 AM by RZ
(modified after loading)



3k



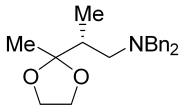
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-04-07 18-21-07\SZ3-252OD1.D
Sample Name: 3-252

==========

Area Percent Report

==========

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



3k

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.382	BV	0.1917	91.64030	7.33679	5.1899
2	6.888	VB	0.2158	1674.10181	119.23196	94.8101
Totals :				1765.74211	126.56875	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.384	BV	0.1815	26.65181	2.19751	5.0407
2	6.888	VB	0.2106	502.08493	36.01976	94.9593
Totals :				528.73674	38.21727	

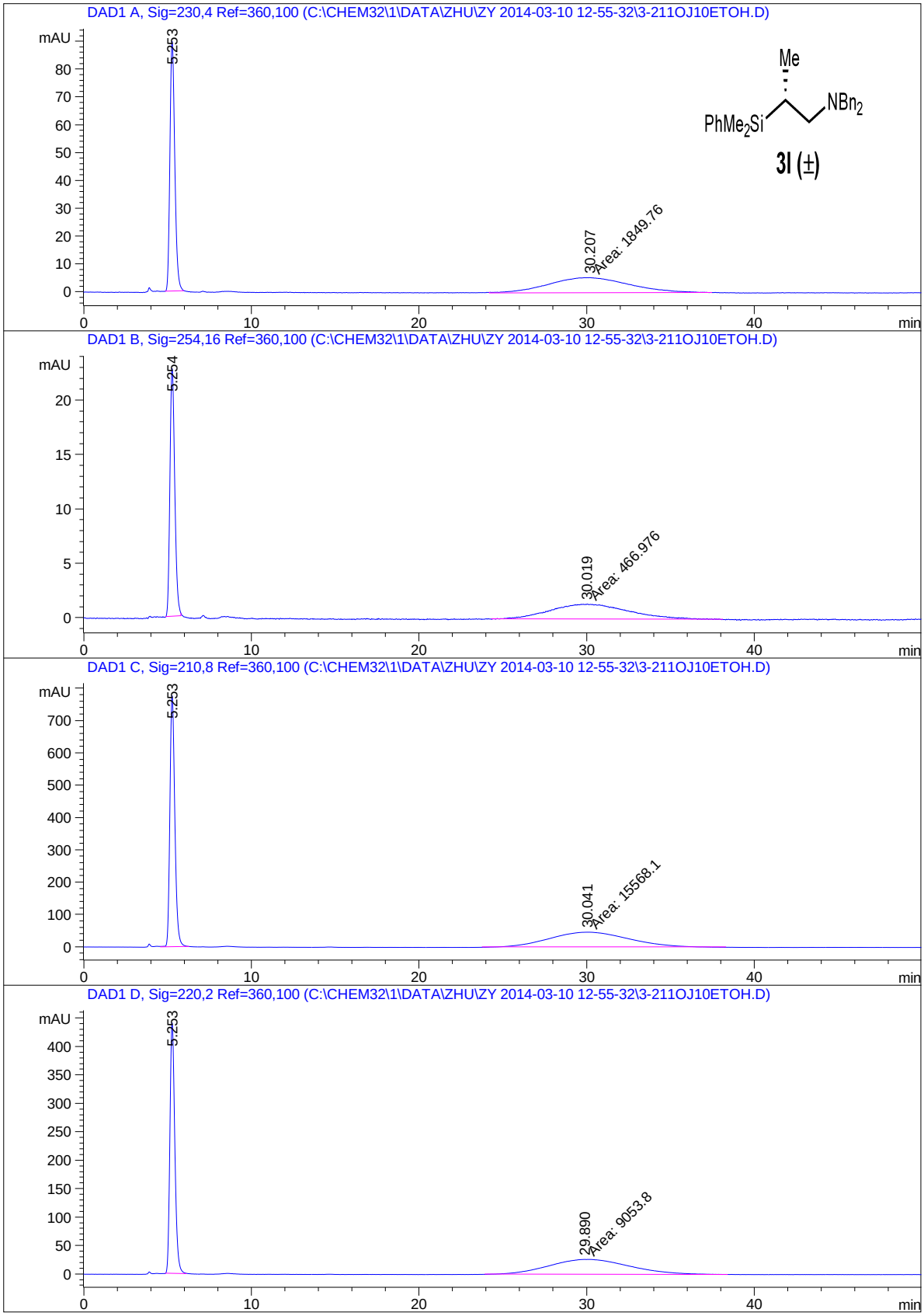
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.380	BV	0.1995	955.51025	73.59778	5.5246
2	6.888	VB	0.2211	1.63400e4	1127.59973	94.4754
Totals :				1.72955e4	1201.19751	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.380	BV	0.1947	374.99472	29.82014	5.3070
2	6.888	VB	0.2180	6691.02588	470.33362	94.6930

Data File C:\CHEM32\1\DATA\ZHU\ZY 2014-03-10 12-55-32\3-211OJ10ETOH.D
Sample Name: 3-211RAC



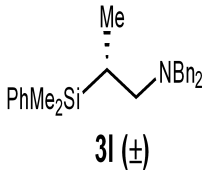
Data File C:\CHEM32\1\DATA\ZHU\ZY 2014-03-10 12-55-32\3-211OJ10ETOH.D
Sample Name: 3-211RAC

==========

Area Percent Report

==========

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



3l (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	5.253	BB	0.3134	1810.60059	89.75002	49.4651
2	30.207	MM	5.6198	1849.75610	5.48583	50.5349
Totals :				3660.35669	95.23585	

Signal 2: DAD1 B, Sig=254,16 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	5.254	BB	0.3094	456.14359	22.80404	49.4133
2	30.019	MM	5.5441	466.97586	1.40382	50.5867
Totals :				923.11945	24.20785	

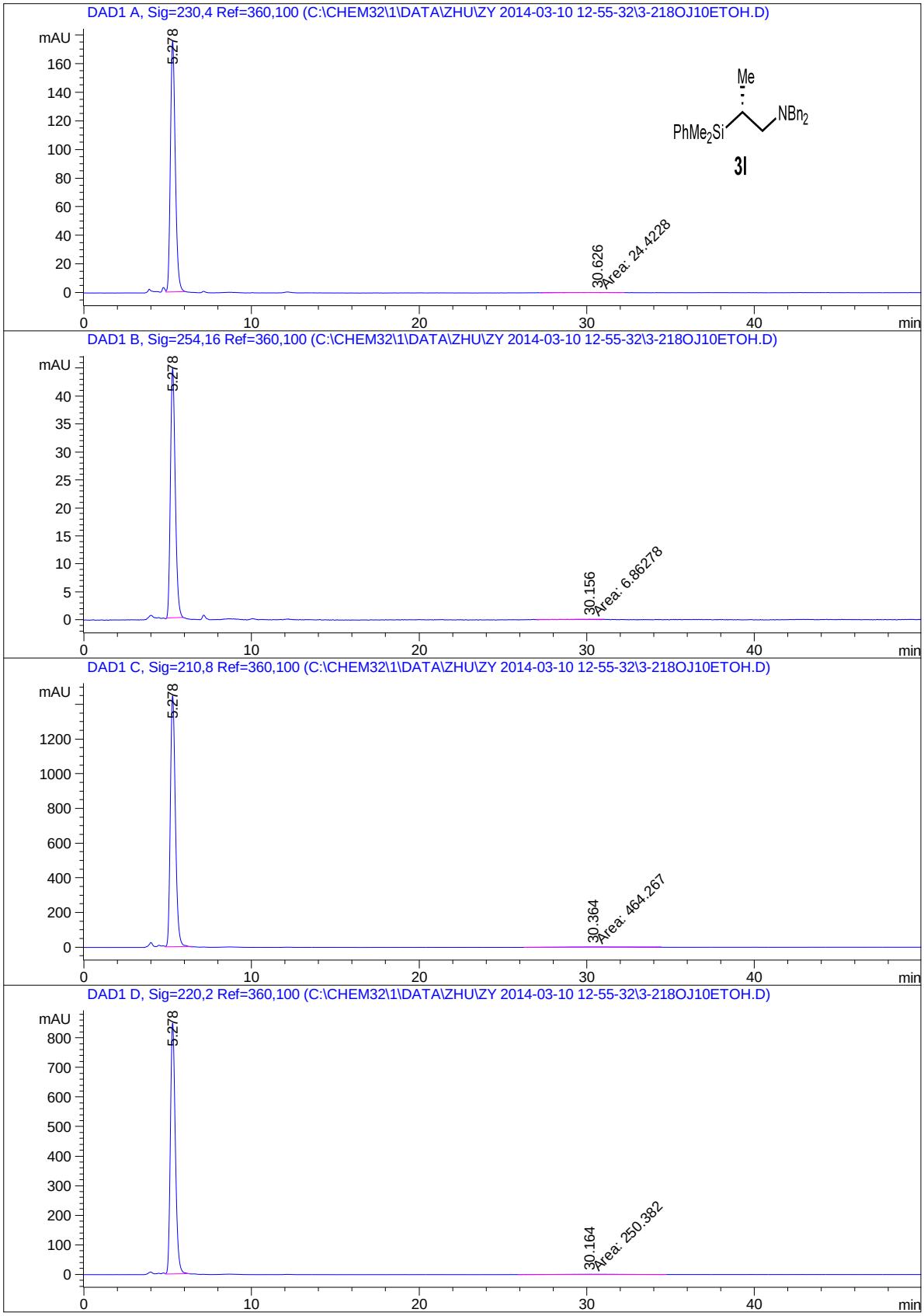
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	5.253	VB	0.3152	1.59315e4	777.19598	50.5770
2	30.041	MM	5.5647	1.55681e4	46.62746	49.4230
Totals :				3.14996e4	823.82344	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	5.253	BB	0.3150	8955.75098	440.87912	49.7278
2	29.890	MM	5.6707	9053.79785	26.60979	50.2722

Data File C:\CHEM32\1\DATA\ZHU\ZY 2014-03-10 12-55-32\3-218OJ10ETOH.D
Sample Name: 3-218



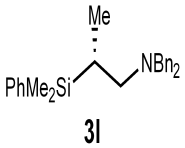
Data File C:\CHEM32\1\DATA\ZHU\ZY 2014-03-10 12-55-32\3-218OJ10ETOH.D
Sample Name: 3-218

==========

Area Percent Report

==========

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



3l

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	5.278	VB	0.3138	3536.63086	175.01091	99.3142
2	30.626	MM	2.2764	24.42280	1.78810e-1	0.6858
Totals :				3561.05366	175.18972	

Signal 2: DAD1 B, Sig=254,16 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	5.278	BB	0.3074	892.93890	44.63043	99.2373
2	30.156	MM	1.6283	6.86278	7.02433e-2	0.7627
Totals :				899.80169	44.70067	

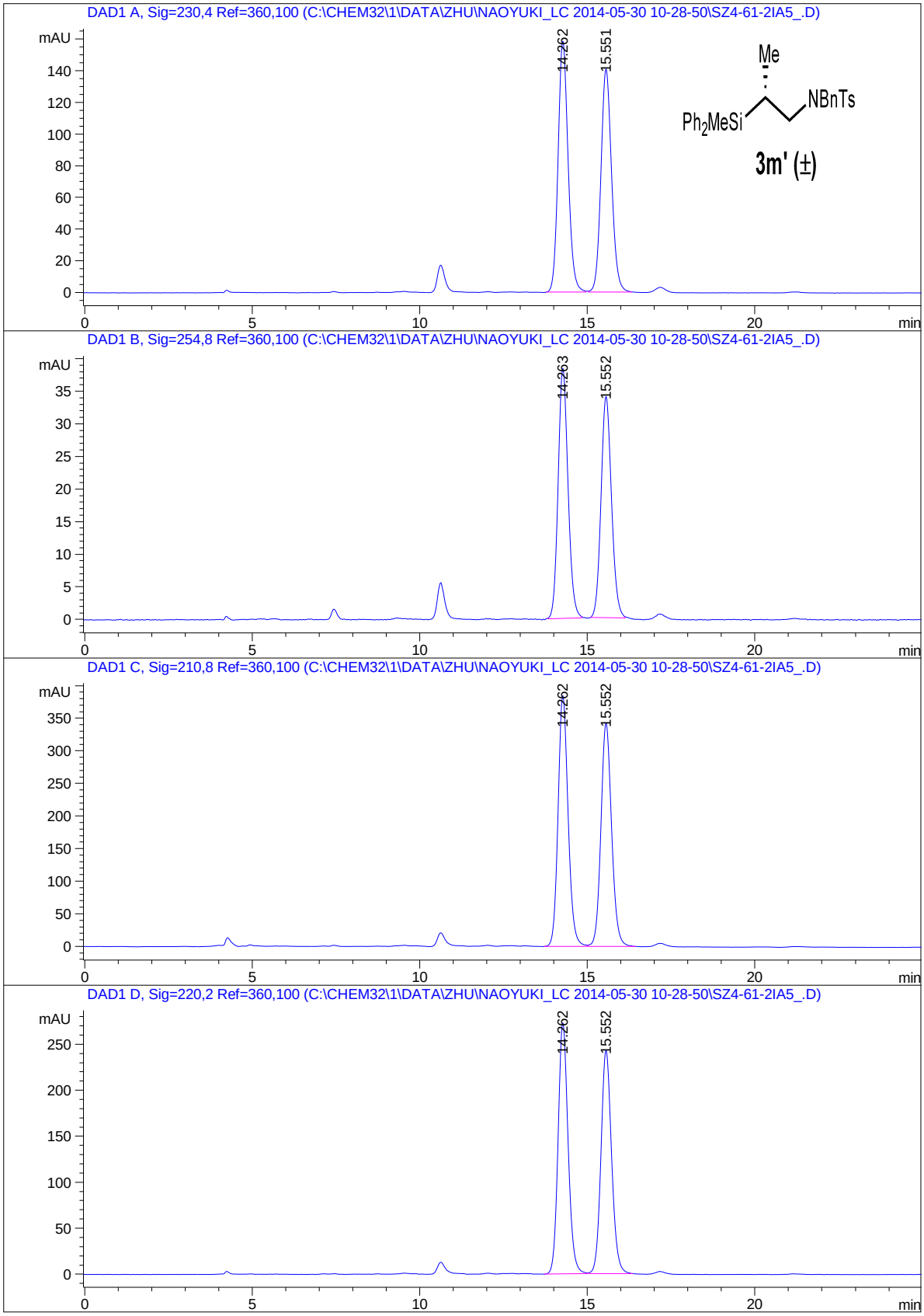
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	5.278	VB	0.3263	3.03231e4	1448.36890	98.4920
2	30.364	MM	4.0549	464.26703	1.90824	1.5080
Totals :				3.07874e4	1450.27713	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	5.278	VB	0.3174	1.74321e4	849.66962	98.5840
2	30.164	MM	3.7076	250.38232	1.12554	1.4160

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-05-30 10-28-50\SZ4-61-2IA5_.D
Sample Name: 4-61-2RAC



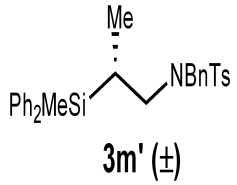
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-05-30 10-28-50\SZ4-61-2IA5_.D
Sample Name: 4-61-2RAC

==========

Area Percent Report

==========

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



3m' (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.262	BB	0.3173	3276.59888	158.39804	51.3558
2	15.551	BB	0.3371	3103.59375	140.83565	48.6442
Totals :				6380.19263	299.23369	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.263	BB	0.3170	786.13989	38.37450	51.5868
2	15.552	BB	0.3296	737.77618	33.94649	48.4132
Totals :				1523.91608	72.32099	

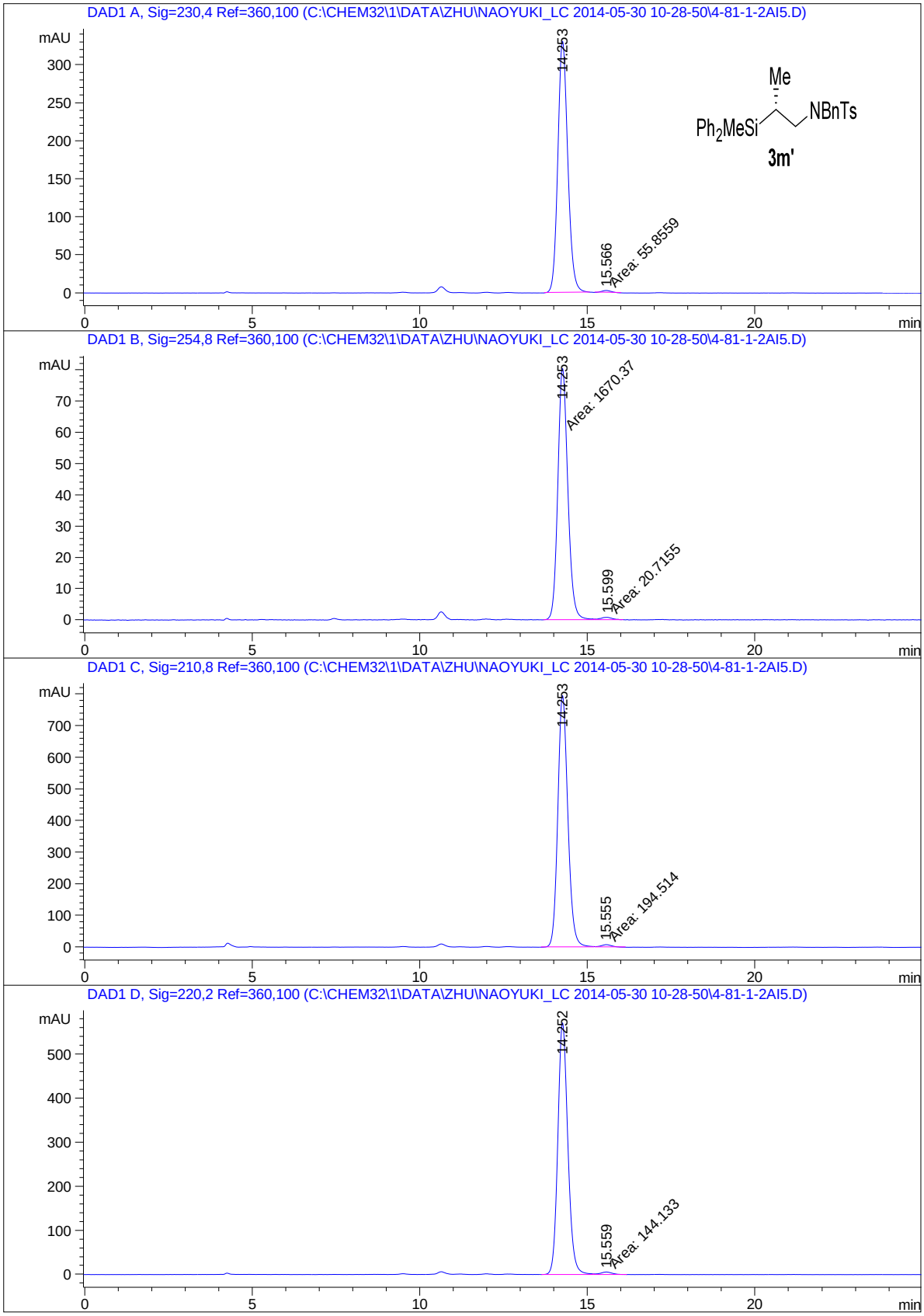
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.262	BB	0.3183	7989.08789	384.71436	51.2629
2	15.552	BB	0.3406	7595.45996	342.71686	48.7371
Totals :				1.55845e4	727.43121	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.262	BB	0.3196	5653.62598	273.03476	51.3449
2	15.552	BB	0.3392	5357.45166	242.98187	48.6551

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-05-30 10-28-50\4-81-1-2AI5.D
Sample Name: 4-81-1-2



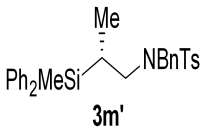
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-05-30 10-28-50\4-81-1-2AI5.D
Sample Name: 4-81-1-2

==========

Area Percent Report

==========

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



3m'

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.253	BB	0.3171	6833.45313	330.68152	99.1892
2	15.566	MF	0.3357	55.85593	2.77319	0.8108
Totals :				6889.30906	333.45471	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.253	MF	0.3463	1670.36633	80.39221	98.7750
2	15.599	MF	0.4315	20.71545	8.00069e-1	1.2250
Totals :				1691.08179	81.19228	

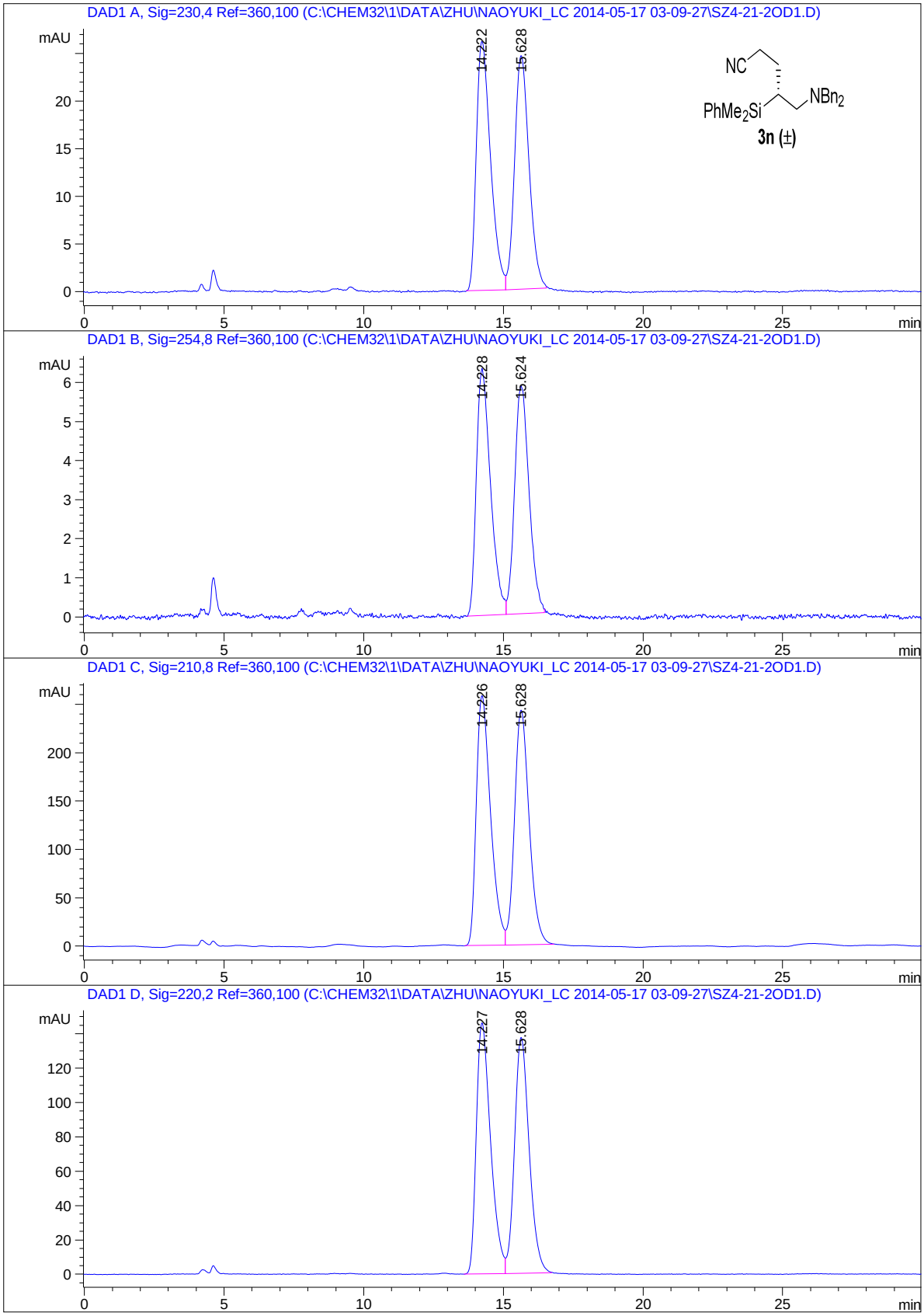
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.253	BB	0.3197	1.66140e4	795.44727	98.8428
2	15.555	MF	0.3941	194.51379	8.22592	1.1572
Totals :				1.68085e4	803.67319	

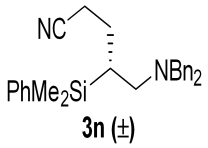
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.252	BB	0.3183	1.18621e4	571.17639	98.7995
2	15.559	MF	0.4094	144.13342	5.86796	1.2005

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-05-17 03-09-27\SZ4-21-2OD1.D
Sample Name: 4-21-2RAC



Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-05-17 03-09-27\SZ4-21-2OD1.D
Sample Name: 4-21-2RAC



3n (±)

==========

Area Percent Report

==========

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

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.222	BV	0.5140	927.95947	26.14884	51.2282
2	15.628	VB	0.5265	883.46454	24.51157	48.7718
Totals :				1811.42401	50.66042	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.228	BB	0.4348	222.80185	6.32782	51.4374
2	15.624	BB	0.4404	210.34926	5.83743	48.5626
Totals :				433.15111	12.16525	

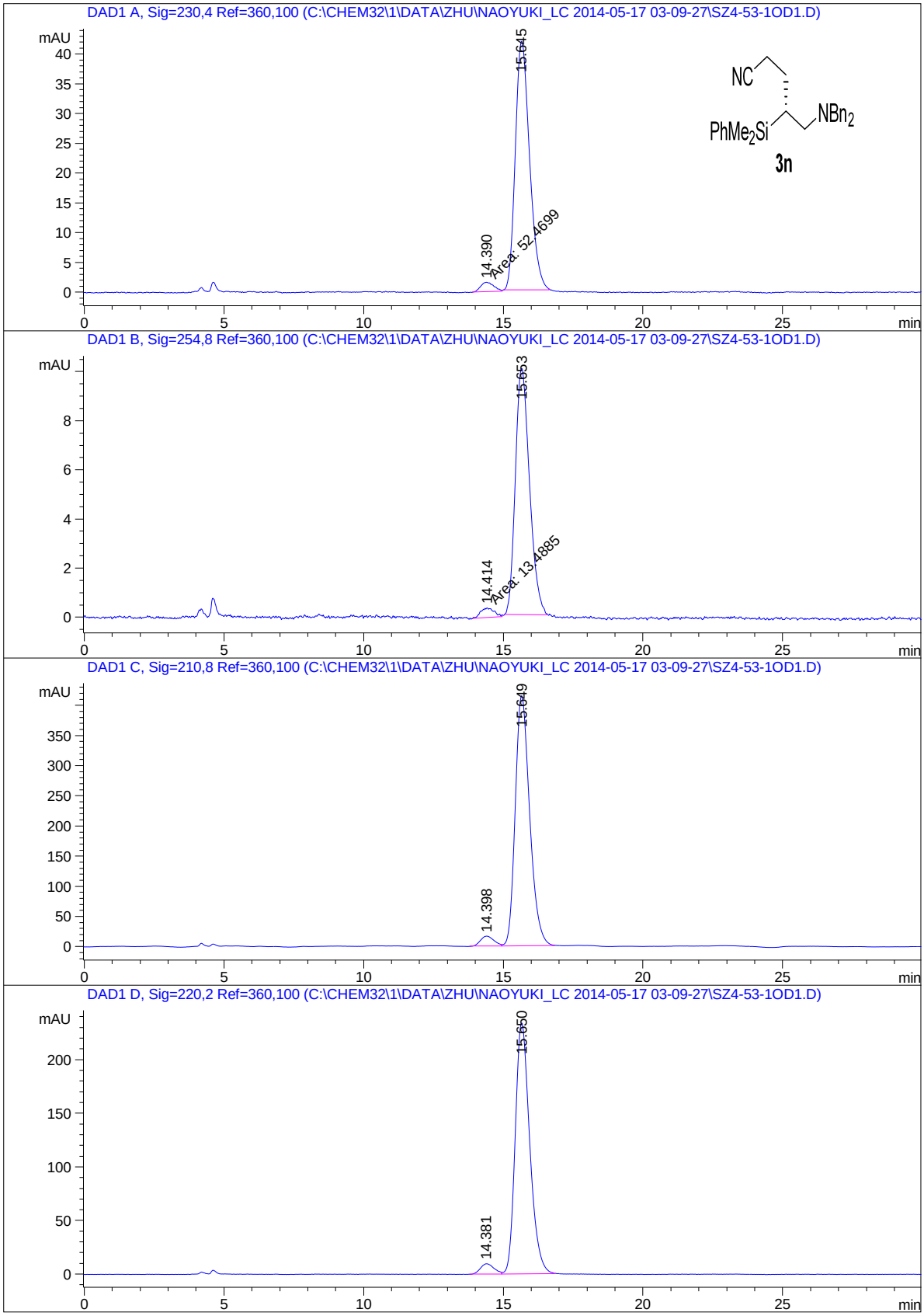
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.226	BV	0.5461	9162.54004	258.14984	50.8466
2	15.628	VB	0.5620	8857.43164	242.59326	49.1534
Totals :				1.80200e4	500.74310	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.227	BV	0.5394	5203.21777	146.14958	50.8819
2	15.628	VB	0.5486	5022.84961	137.37509	49.1181

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-05-17 03-09-27\SZ4-53-1OD1.D
Sample Name: 4-53-1



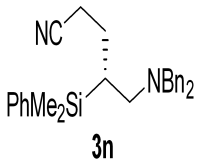
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-05-17 03-09-27\SZ4-53-1OD1.D
Sample Name: 4-53-1

==========

Area Percent Report

==========

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



3n

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.390	MM	0.5471	52.46988	1.59844	3.4146
2	15.645	BB	0.5403	1484.15869	41.79713	96.5854
Totals :				1536.62857	43.39557	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.414	MM	0.5632	13.48845	3.99188e-1	3.6808
2	15.653	BB	0.4628	352.96774	10.02484	96.3192
Totals :				366.45619	10.42403	

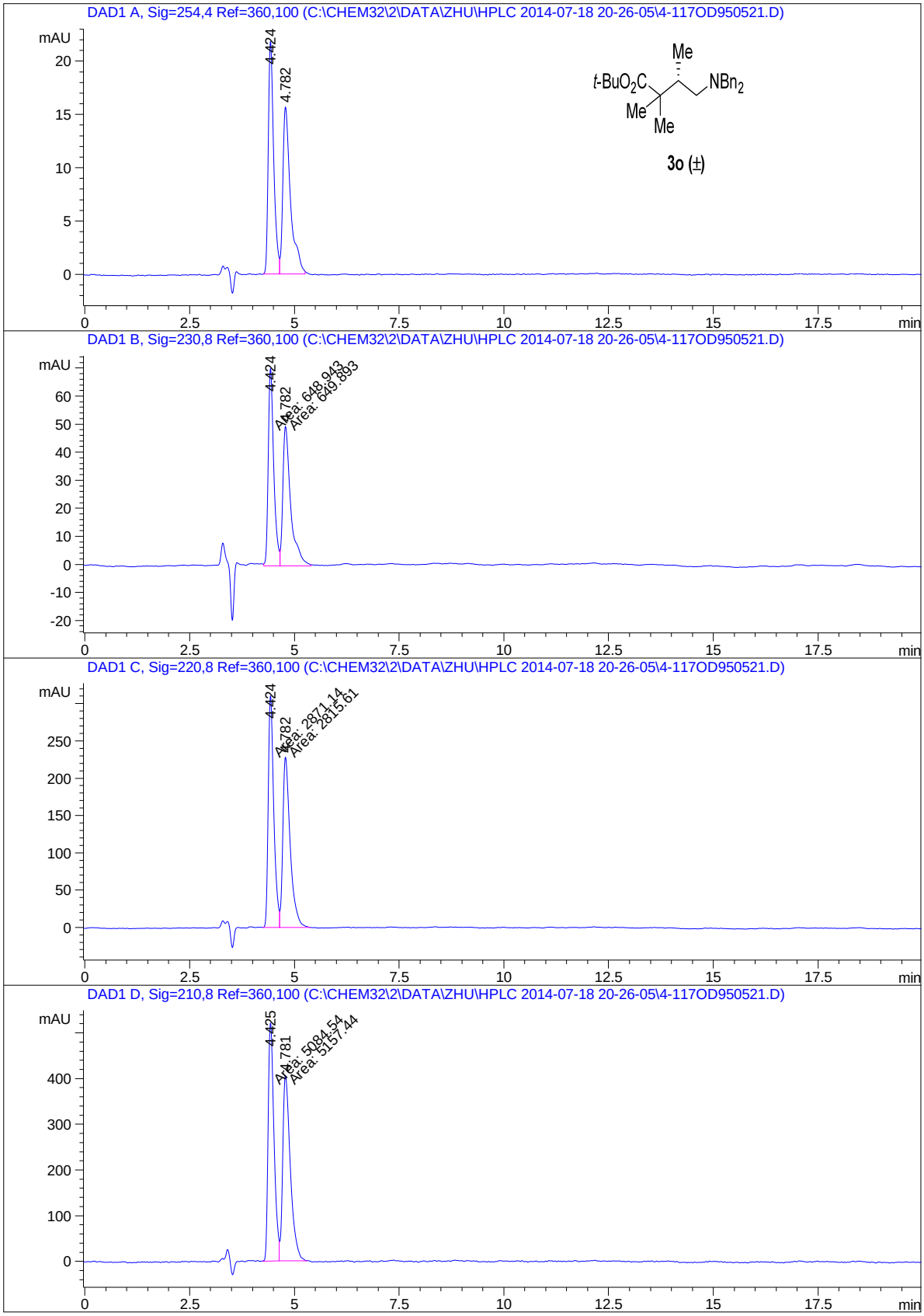
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.398	BV	0.4126	566.09344	16.73867	3.6655
2	15.649	VB	0.5506	1.48779e4	414.64716	96.3345
Totals :				1.54440e4	431.38582	

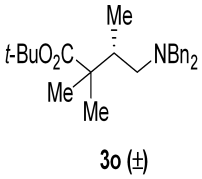
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.381	VV	0.4185	332.07535	9.72232	3.7914
2	15.650	VB	0.5420	8426.56348	234.07680	96.2086

Data File C:\CHEM32\2\DATA\ZHU\HPLC 2014-07-18 20-26-05\4-117OD950521.D
Sample Name: 4-117RAC



Data File C:\CHEM32\2\DATA\ZHU\HPLC 2014-07-18 20-26-05\4-117OD950521.D
Sample Name: 4-117RAC



3o (±)

==========

Area Percent Report

==========

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

Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.424	BV	0.1367	196.36861	21.87259	49.3447
2	4.782	VB	0.1877	201.58443	15.70866	50.6553
Totals :				397.95303	37.58125	

Signal 2: DAD1 B, Sig=230,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.424	MF	0.1533	648.94250	70.54516	49.9634
2	4.782	FM	0.2172	649.89270	49.85861	50.0366
Totals :				1298.83521	120.40377	

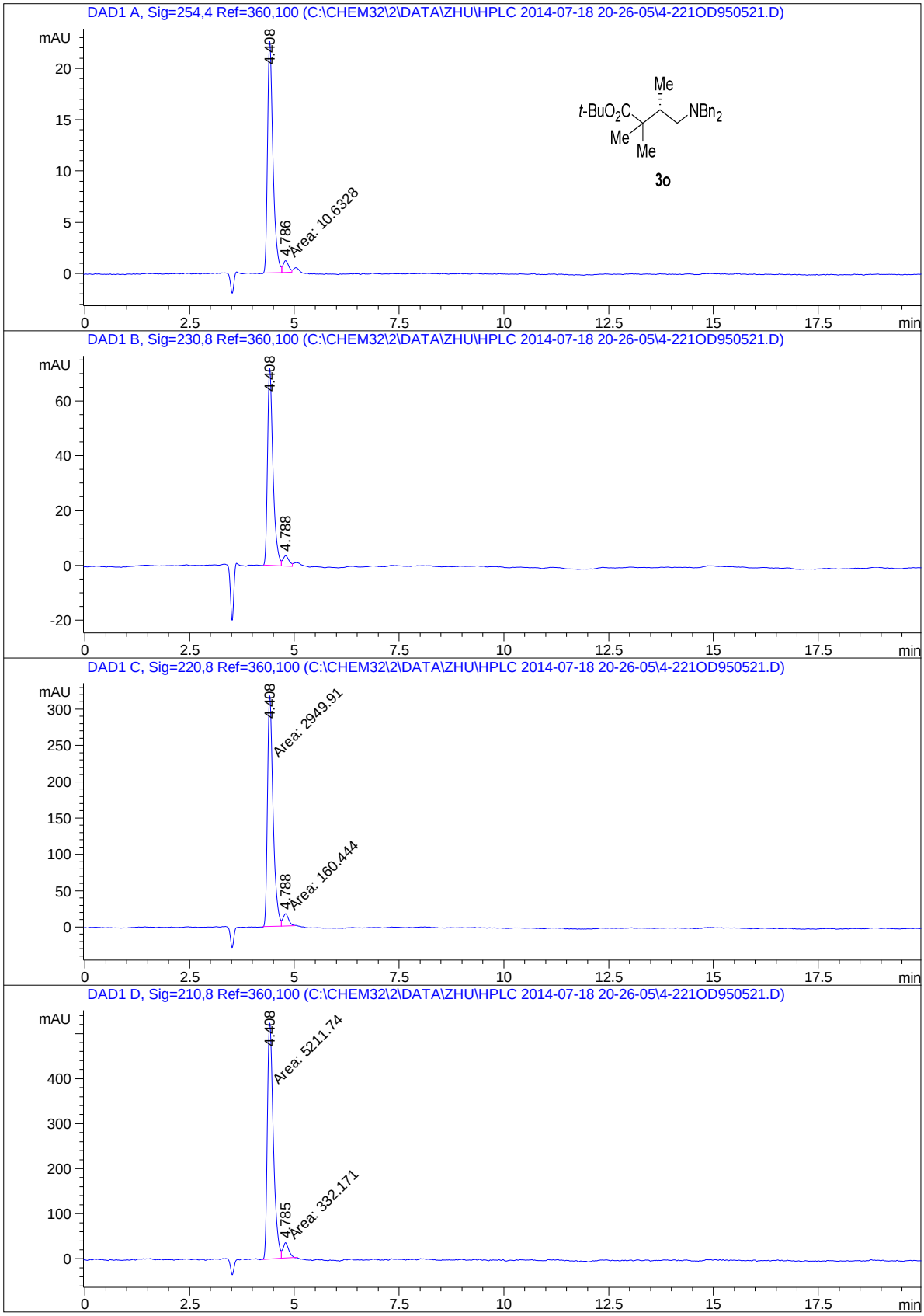
Signal 3: DAD1 C, Sig=220,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.424	MF	0.1536	2871.13794	311.48721	50.4882
2	4.782	FM	0.2049	2815.61304	229.05534	49.5118
Totals :				5686.75098	540.54256	

Signal 4: DAD1 D, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.425	MF	0.1624	5084.54199	521.81342	49.6441
2	4.781	FM	0.2115	5157.44141	406.51172	50.3559

Data File C:\CHEM32\2\DATA\ZHU\HPLC 2014-07-18 20-26-05\4-221OD950521.D
Sample Name: 4-221OD



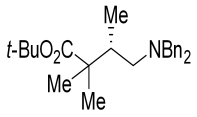
Data File C:\CHEM32\2\DATA\ZHU\HPLC 2014-07-18 20-26-05\4-221OD950521.D
Sample Name: 4-221OD

==========

Area Percent Report

==========

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



3o

Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.408	BB	0.1378	205.27261	22.62688	95.0752
2	4.786	MF	0.1517	10.63284	1.16812	4.9248
Totals :				215.90546	23.79500	

Signal 2: DAD1 B, Sig=230,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.408	BV	0.1378	653.77686	72.08253	94.3939
2	4.788	VV	0.1487	38.82849	3.81777	5.6061
Totals :				692.60534	75.90031	

Signal 3: DAD1 C, Sig=220,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.408	MF	0.1545	2949.90649	318.29221	94.8416
2	4.788	FM	0.1567	160.44371	17.06719	5.1584
Totals :				3110.35020	335.35939	

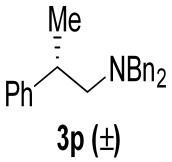
Signal 4: DAD1 D, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.408	MF	0.1656	5211.74121	524.61432	94.0084
2	4.785	FM	0.1590	332.17142	34.81503	5.9916

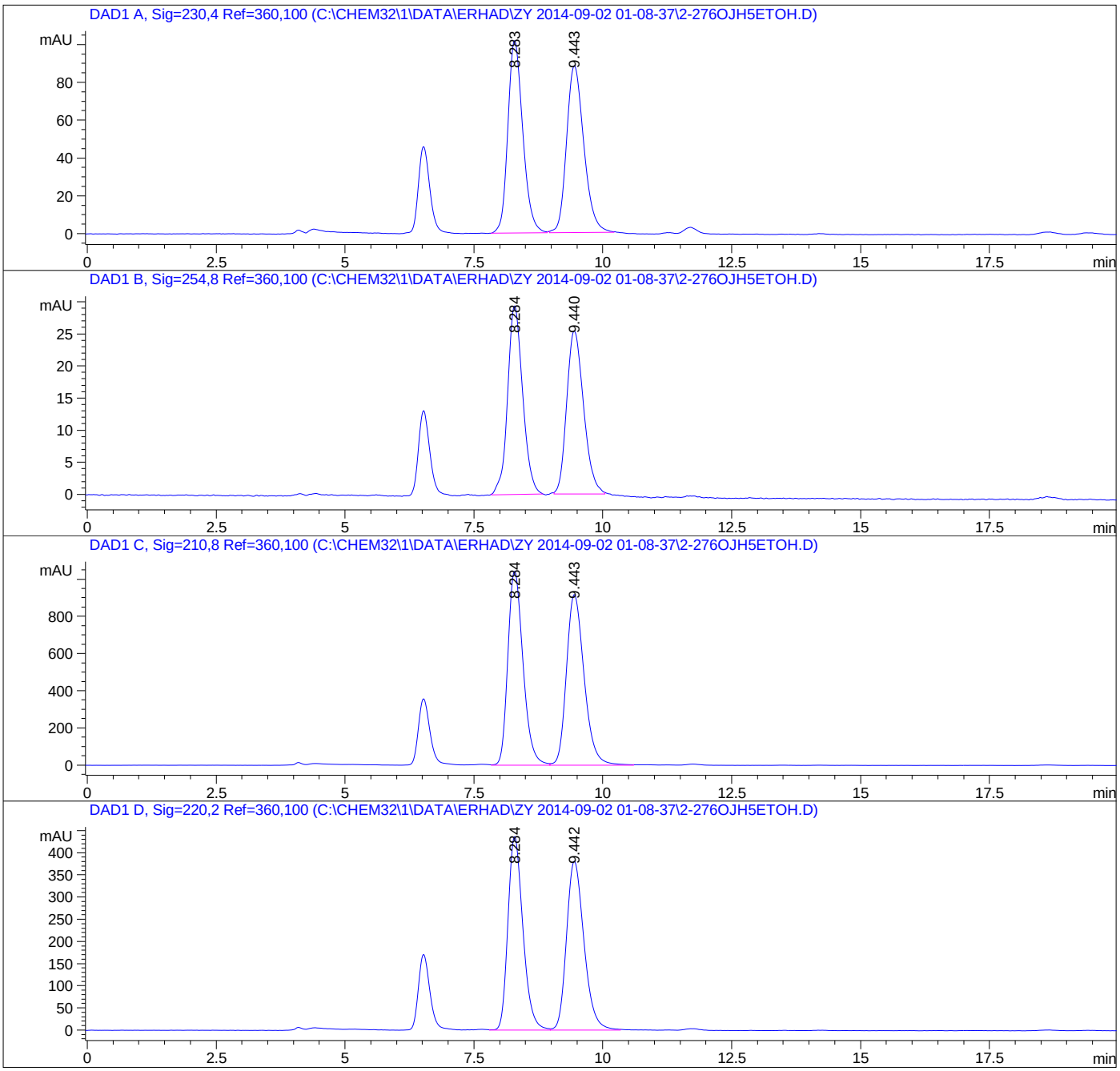
Data File C:\CHEM32\1\DATA\ERHAD\ZY 2014-09-02 01-08-37\2-276OJH5ETOH.D
Sample Name: 2-276RAC

==========

Acq. Operator : RZ Seq. Line : 4
Acq. Instrument : Instrument 1 Location : Vial 63
Injection Date : 9/2/2014 2:28:14 AM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\ERHAD\ZY 2014-09-02 01-08-37\05-30ETOH.M
Last changed : 9/2/2014 1:44:14 AM by RZ
(modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\YMWHEXANES_PT8.M
Last changed : 9/2/2014 2:25:27 AM by RZ
(modified after loading)



3p (±)



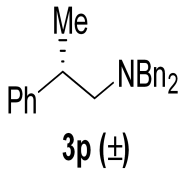
Data File C:\CHEM32\1\DATA\ERHAD\ZY 2014-09-02 01-08-37\2-276OJH5ETOH.D
Sample Name: 2-276RAC

==========

Area Percent Report

==========

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



3p (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.283	BB	0.3092	2050.70020	101.73317	49.8138
2	9.443	BB	0.3609	2066.03271	88.31048	50.1862
Totals :				4116.73291	190.04365	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.284	BB	0.3096	598.58087	29.39123	50.7496
2	9.440	BB	0.3427	580.89856	25.40989	49.2504
Totals :				1179.47943	54.80111	

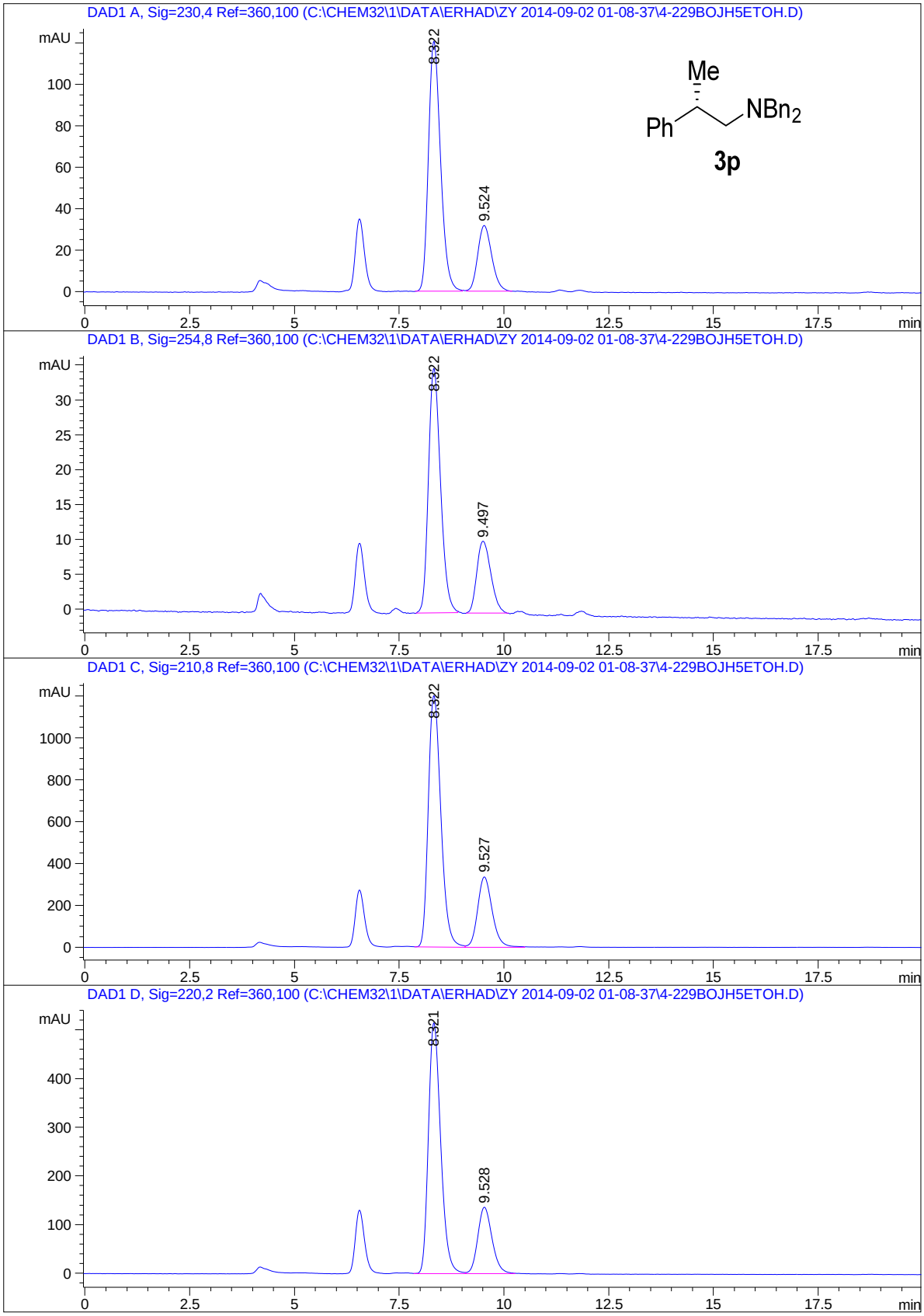
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.284	VV	0.3133	2.14026e4	1043.41650	49.3862
2	9.443	VB	0.3707	2.19345e4	918.33545	50.6138
Totals :				4.33371e4	1961.75195	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.284	VV	0.3126	8862.82617	436.94299	49.5261
2	9.442	VB	0.3681	9032.43457	381.73410	50.4739

Data File C:\CHEM32\1\DATA\ERHAD\ZY 2014-09-02 01-08-37\4-229BOJH5ETOH.D
Sample Name: 4-229B



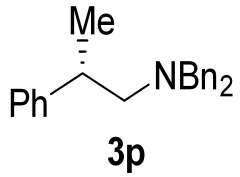
Data File C:\CHEM32\1\DATA\ERHAD\ZY 2014-09-02 01-08-37\4-229BOJH5ETOH.D
Sample Name: 4-229B

==========

Area Percent Report

==========

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



3p

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.322	BB	0.3105	2426.24023	120.71318	76.6466
2	9.524	BB	0.3436	739.24847	31.75132	23.3534
Totals :				3165.48871	152.46450	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.322	BB	0.3059	702.76685	35.05664	74.3959
2	9.497	BB	0.3292	241.86440	10.32767	25.6041
Totals :				944.63124	45.38431	

Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.322	VV	0.3260	2.51112e4	1200.84143	75.5380
2	9.527	VV	0.3744	8131.95898	335.95572	24.4620
Totals :				3.32432e4	1536.79715	

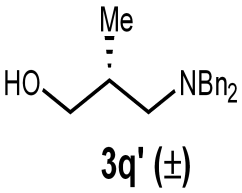
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.321	VV	0.3177	1.05069e4	515.77515	76.2628
2	9.528	VB	0.3666	3270.32446	136.96390	23.7372

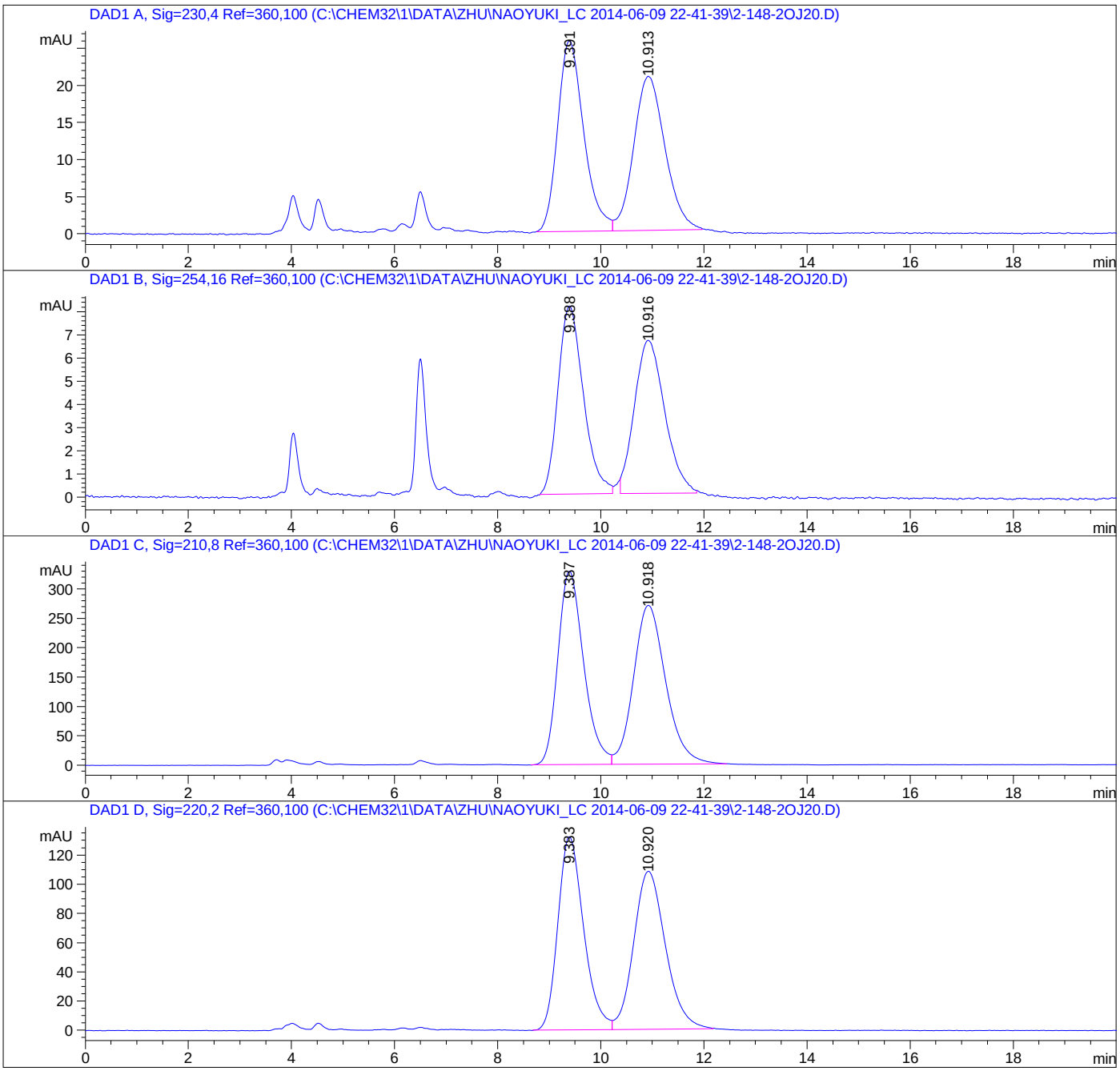
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-09 22-41-39\2-148-2OJ20.D
Sample Name: 2-148-2RAC

==========

Acq. Operator : RZ Seq. Line : 2
Acq. Instrument : Instrument 1 Location : Vial 62
Injection Date : 6/9/2014 11:15:11 PM Inj : 1
Inj Volume : 5 µl
Different Inj Volume from Sequence ! Actual Inj Volume : 3 µl
Acq. Method : C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-09 22-41-39\20-30.M
Last changed : 10/23/2013 4:55:20 PM by RZ
Analysis Method : C:\CHEM32\1\METHODS\YMWHEXANES_PT8.M
Last changed : 9/22/2014 2:01:45 AM by RZ
(modified after loading)



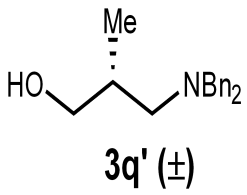
3q' (±)



Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-09 22-41-39\2-148-2OJ20.D
Sample Name: 2-148-2RAC

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

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



3q' (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.391	BV	0.5263	911.01184	25.78124	50.7784
2	10.913	VB	0.5125	883.08154	20.83526	49.2216
Totals :				1794.09338	46.61650	

Signal 2: DAD1 B, Sig=254,16 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.388	BB	0.4689	279.44220	8.13238	50.8033
2	10.916	BB	0.5211	270.60504	6.61695	49.1967
Totals :				550.04724	14.74933	

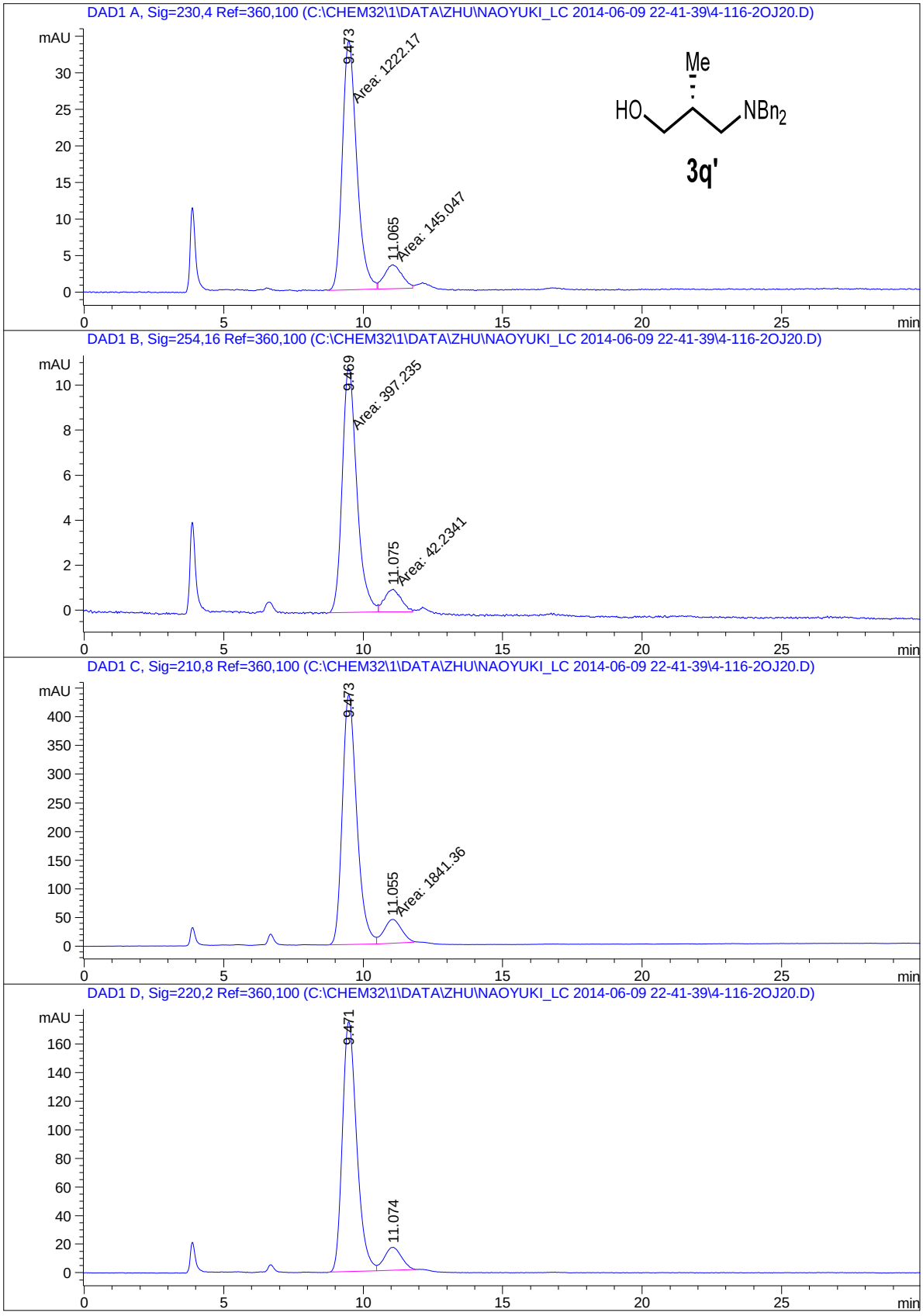
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.387	VV	0.5390	1.14803e4	329.09653	49.3576
2	10.918	VB	0.6498	1.17792e4	270.60461	50.6424
Totals :				2.32595e4	599.70114	

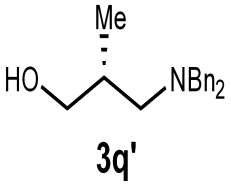
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.383	BV	0.5418	4605.99854	132.43756	49.6905
2	10.920	VB	0.6321	4663.37451	108.34921	50.3095

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-09 22-41-39\4-116-2OJ20.D
Sample Name: 4-116-2



Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-09 22-41-39\4-116-2OJ20.D
Sample Name: 4-116-2



3q'

==========

Area Percent Report

==========

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

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.473	MF	0.5992	1222.16711	33.99543	89.3911
2	11.065	FM	0.7346	145.04677	3.29081	10.6089
Totals :				1367.21388	37.28624	

Signal 2: DAD1 B, Sig=254,16 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.469	MF	0.6096	397.23544	10.86067	90.3897
2	11.075	FM	0.6908	42.23415	1.01903	9.6103
Totals :				439.46959	11.87971	

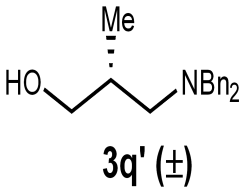
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.473	BB	0.5400	1.56619e4	435.09448	89.4799
2	11.055	MM	0.7332	1841.35583	41.85434	10.5201
Totals :				1.75032e4	476.94883	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

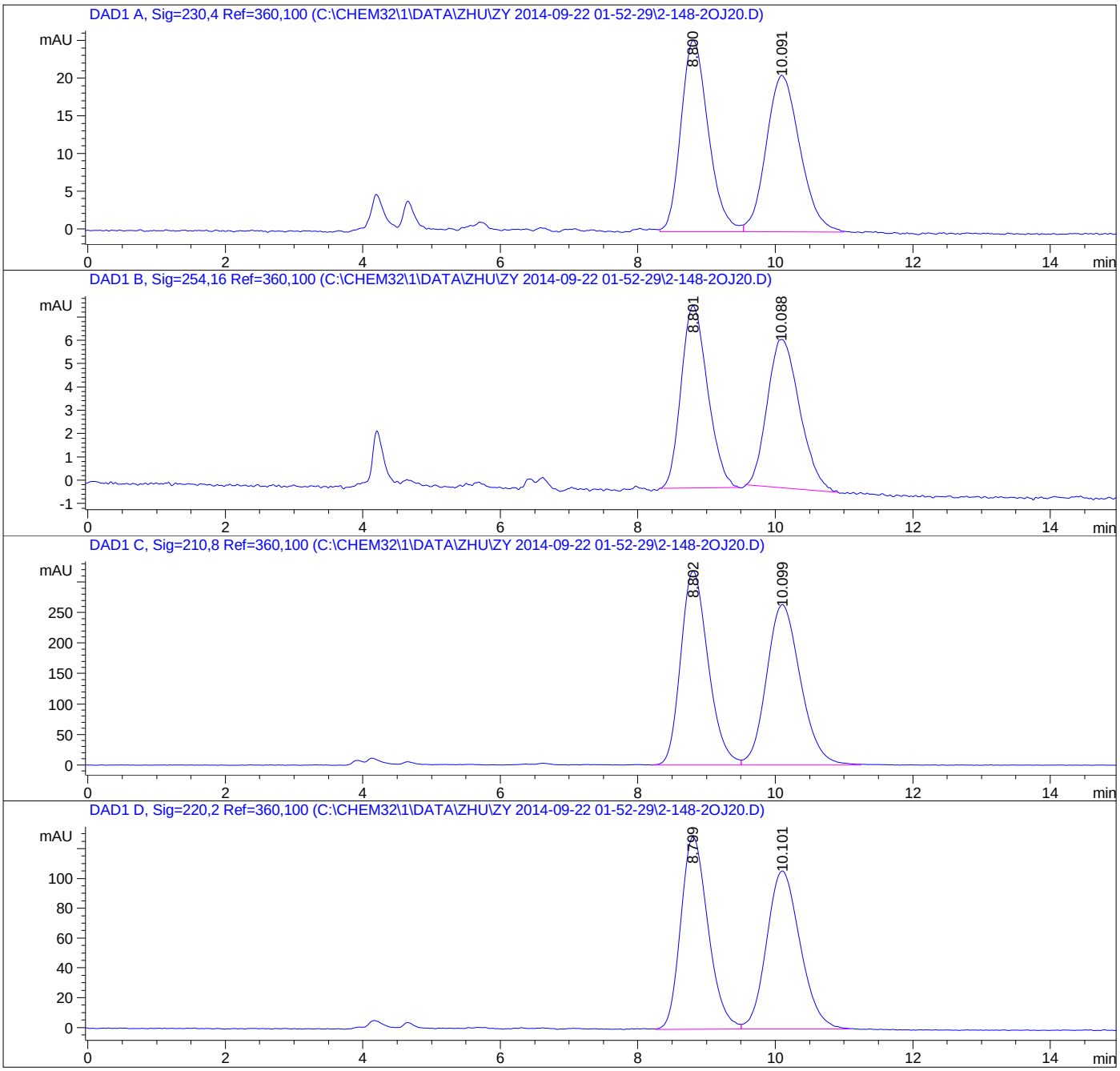
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.471	BB	0.5424	6246.09863	174.99199	89.9031
2	11.074	BV	0.5187	701.49048	16.15097	10.0969

Data File C:\CHEM32\1\DATA\ZHU\ZY 2014-09-22 01-52-29\2-148-2OJ20.D
Sample Name: 2-148-2RAC



3q' (±)

```
==========================================================================
Acq. Operator   : EA                                 Seq. Line :   3
Acq. Instrument : Instrument 1                        Location : Vial 62
Injection Date  : 9/22/2014 2:44:00 AM                    Inj :   1
                                                  Inj Volume : 5 µl
Different Inj Volume from Sequence !     Actual Inj Volume : 3 µl
Acq. Method     : C:\CHEM32\1\DATA\ZHU\ZY 2014-09-22 01-52-29\20-30.M
Last changed    : 9/22/2014 2:58:17 AM by EA
                  (modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\YMWHEXANES_PT8.M
Last changed    : 9/22/2014 2:56:39 AM by RZ
                  (modified after loading)
```



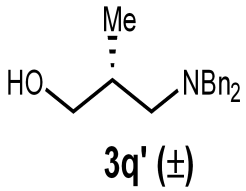
Data File C:\CHEM32\1\DATA\ZHU\ZY 2014-09-22 01-52-29\2-148-2OJ20.D
Sample Name: 2-148-2RAC

==========

Area Percent Report

==========

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



3q' (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.800	BB	0.4103	706.63995	25.42277	49.8398
2	10.091	BB	0.4342	711.18304	20.83916	50.1602
Totals :				1417.82300	46.26193	

Signal 2: DAD1 B, Sig=254,16 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.801	BB	0.3836	210.28117	7.82374	50.1999
2	10.088	BB	0.4045	208.60609	6.36255	49.8001
Totals :				418.88727	14.18629	

Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.802	VV	0.4246	8863.16309	318.55432	49.3835
2	10.099	VB	0.5119	9084.46191	263.71555	50.6165
Totals :				1.79476e4	582.26987	

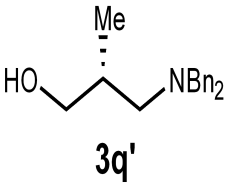
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.799	BV	0.4242	3575.70679	129.45467	49.7257
2	10.101	VB	0.4930	3615.16260	106.23516	50.2743

Data File C:\CHEM32\1\DATA\ZHU\ZY 2014-09-22 01-52-29\4-116-2RECR.D
Sample Name: 4-116-2RECR

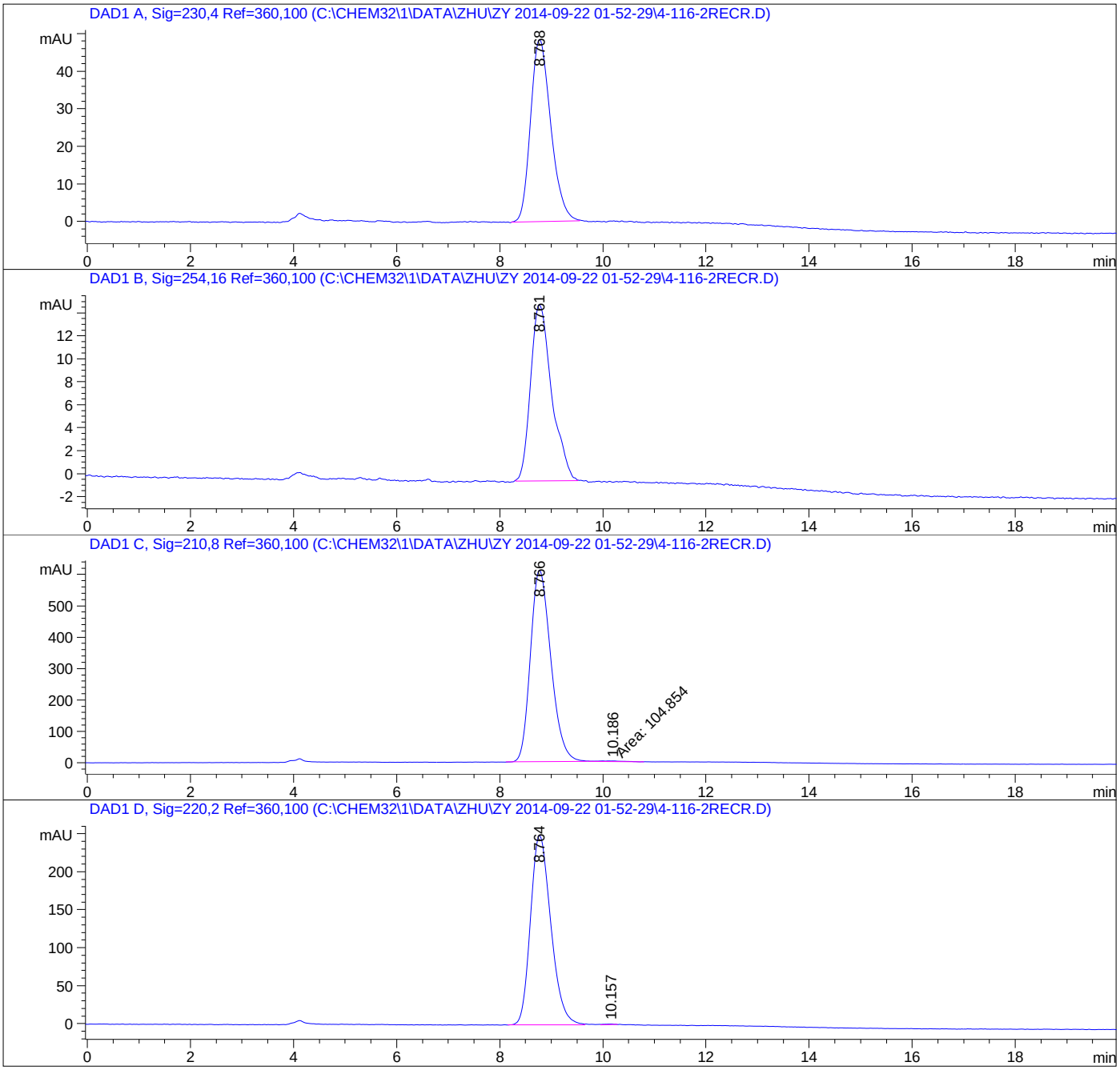
==========

Acq. Operator : EA Seq. Line : 2
Acq. Instrument : Instrument 1 Location : Vial 61
Injection Date : 9/22/2014 2:22:01 AM Inj : 1
Inj Volume : 5 µl
Different Inj Volume from Sequence ! Actual Inj Volume : 3 µl
Acq. Method : C:\CHEM32\1\DATA\ZHU\ZY 2014-09-22 01-52-29\20-30.M
Last changed : 9/22/2014 2:38:32 AM by EA
(modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\YMWHEXANES_PT8.M
Last changed : 9/22/2014 2:56:39 AM by RZ
(modified after loading)



3q'

After recrystallization of 3q from ethyl ether/MeOH



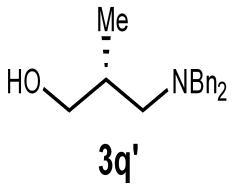
Data File C:\CHEM32\1\DATA\ZHU\ZY 2014-09-22 01-52-29\4-116-2RECR.D
Sample Name: 4-116-2RECR

==========

Area Percent Report

==========

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



3q'

After recrystallization of 3q from ethyl ether/MeOH

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.768	BB	0.4217	1329.85376	48.53413	100.0000
Totals :				1329.85376	48.53413	

Signal 2: DAD1 B, Sig=254,16 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.761	BB	0.4157	436.00656	15.33435	100.0000
Totals :				436.00656	15.33435	

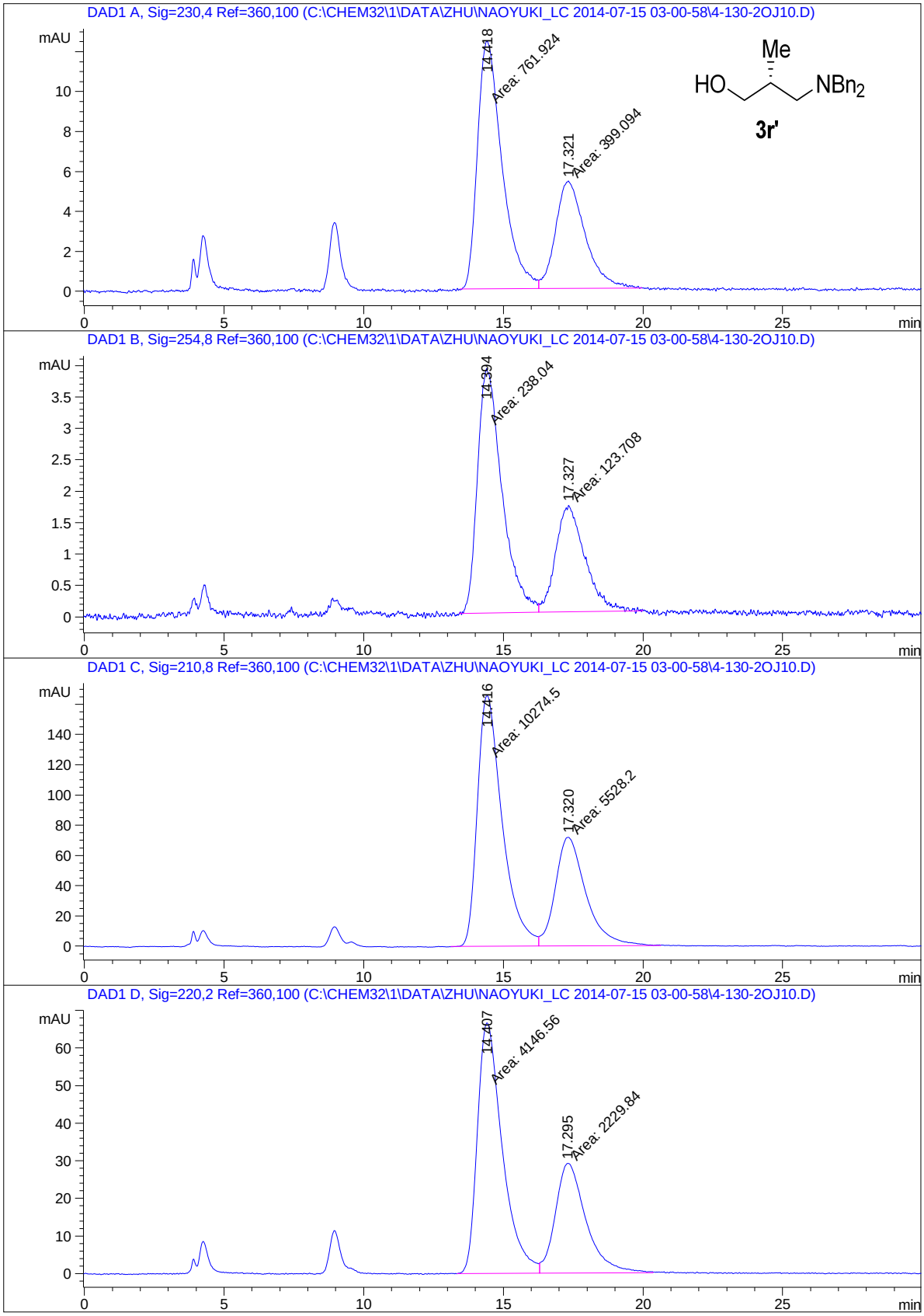
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.766	BV	0.4240	1.68491e4	610.45148	99.3815
2	10.186	MF	0.6760	104.85434	2.58507	0.6185
Totals :				1.69539e4	613.03655	

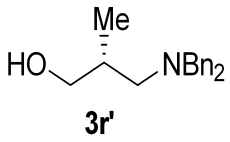
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.764	VB	0.4287	6857.89502	249.45605	99.7759
2	10.157	VV	0.1736	15.40195	1.07222	0.2241
Totals :				6873.29697	250.52827	

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-07-15 03-00-58\4-130-2OJ10.D
Sample Name: 4-130-2



Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-07-15 03-00-58\4-130-2OJ10.D
Sample Name: 4-130-2



3r'

==========

Area Percent Report

==========

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

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.418	MF	1.0238	761.92371	12.40298	65.6255
2	17.321	FM	1.2336	399.09357	5.39188	34.3745
Totals :				1161.01727	17.79486	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.394	MF	1.0189	238.03987	3.89360	65.8026
2	17.327	FM	1.2151	123.70847	1.69683	34.1974
Totals :				361.74834	5.59043	

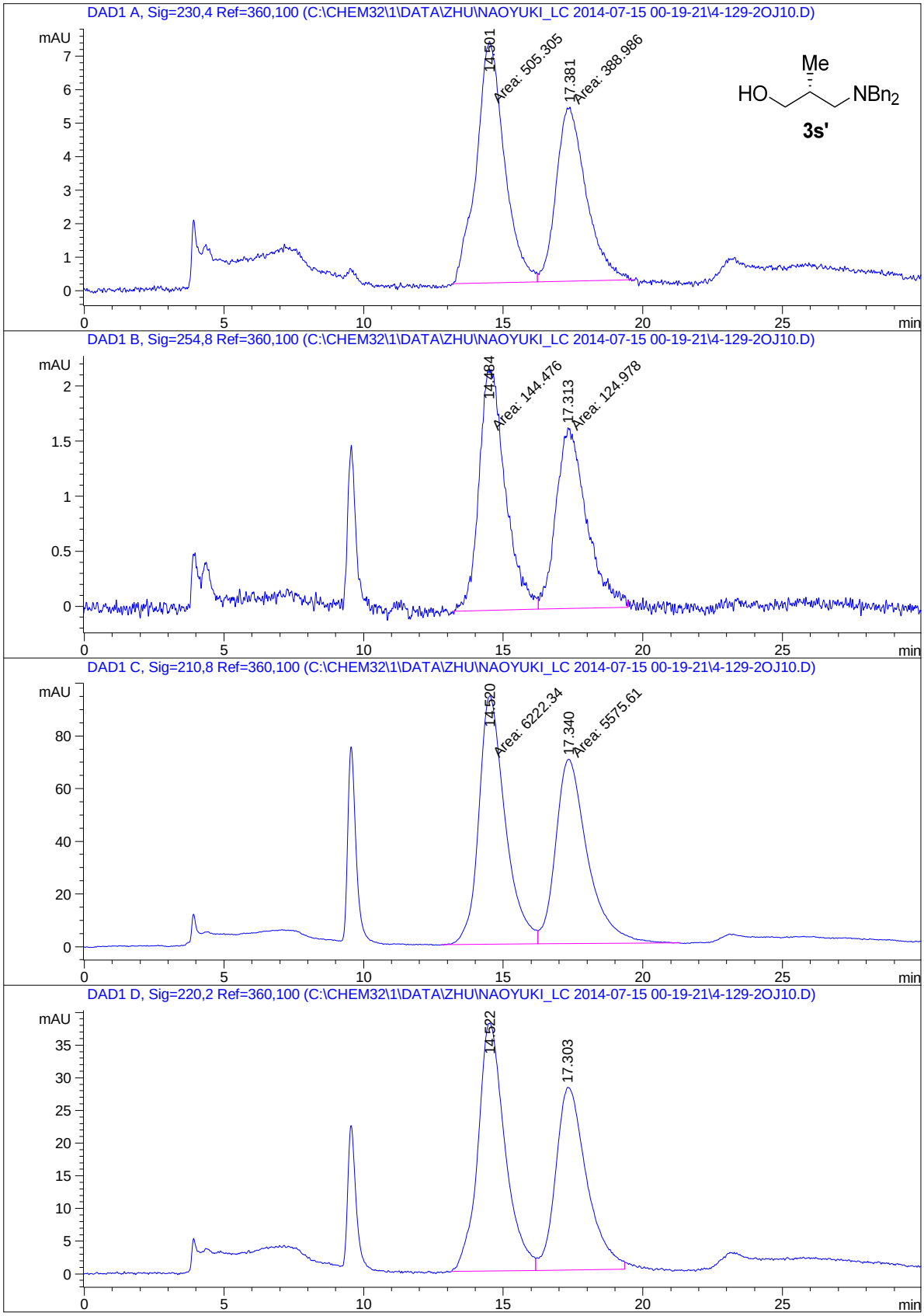
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.416	MF	1.0321	1.02745e4	165.91457	65.0174
2	17.320	MF	1.2785	5528.19531	72.06385	34.9826
Totals :				1.58027e4	237.97842	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.407	MF	1.0370	4146.56006	66.64312	65.0298
2	17.295	MF	1.2731	2229.84106	29.19160	34.9702

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-07-15 00-19-21\4-129-2OJ10.D
Sample Name: 4-129-2



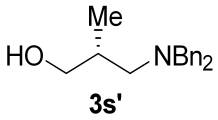
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-07-15 00-19-21\4-129-2OJ10.D
Sample Name: 4-129-2

==========

Area Percent Report

==========

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



3s'

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.501	MF	1.1668	505.30511	7.21752	56.5034
2	17.381	FM	1.2459	388.98611	5.20344	43.4966
Totals :				894.29123	12.42096	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.484	MF	1.0948	144.47568	2.19948	53.6179
2	17.313	FM	1.2666	124.97831	1.64456	46.3821
Totals :				269.45399	3.84404	

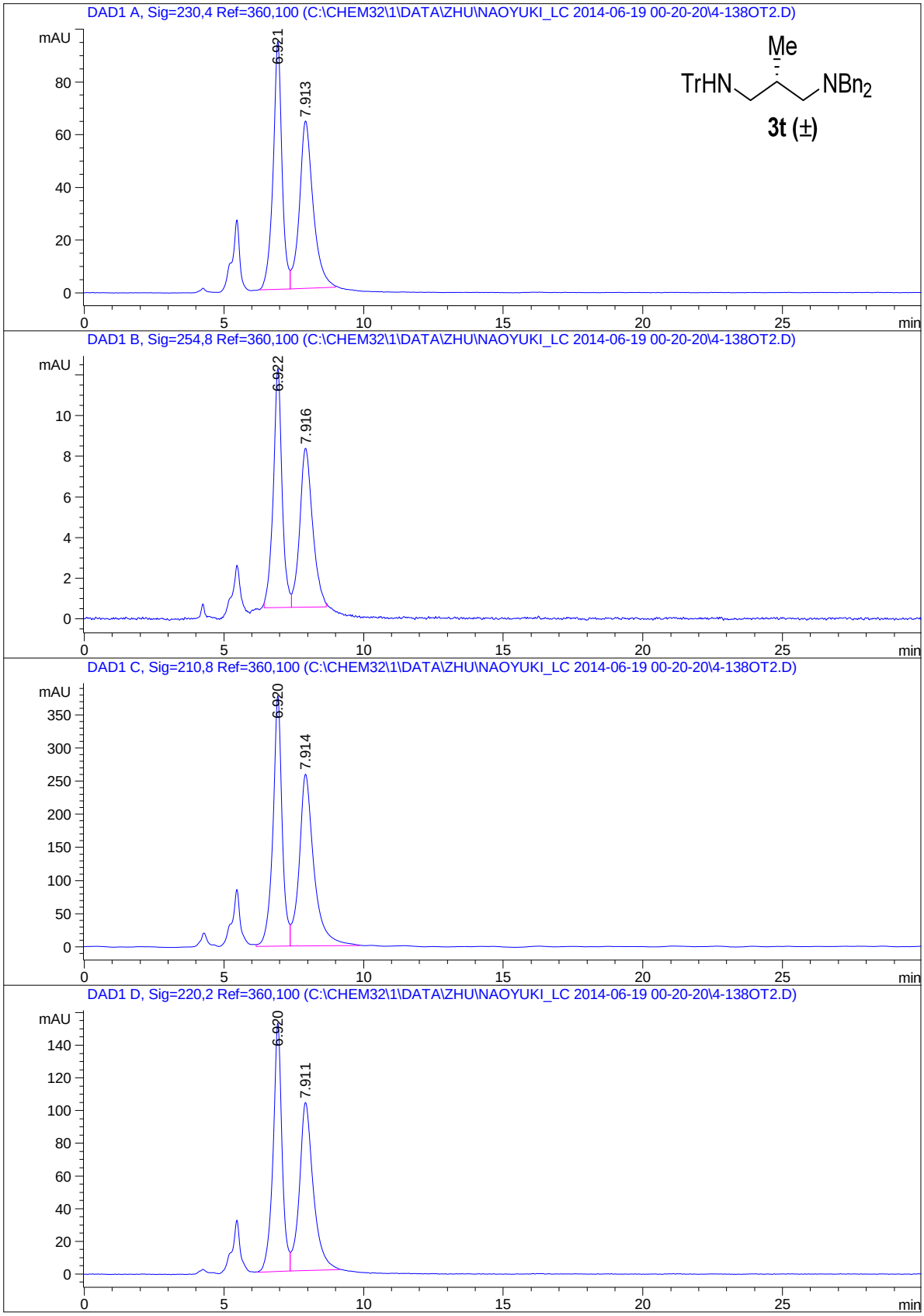
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.520	MF	1.0981	6222.34424	94.44027	52.7409
2	17.340	FM	1.3249	5575.60547	70.13608	47.2591
Totals :				1.17979e4	164.57635	

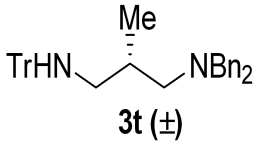
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.522	BV	0.8008	2561.60303	37.98285	54.1993
2	17.303	VB	0.9087	2164.66602	27.97696	45.8007

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-19 00-20-20\4-138OT2.D
Sample Name: 4-138RAC



Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-19 00-20-20\4-138OT2.D
Sample Name: 4-138RAC



3t (±)

==========

Area Percent Report

==========

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

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.921	BV	0.3239	2097.18701	94.14021	49.0088
2	7.913	VB	0.4847	2182.01514	63.53862	50.9912
Totals :				4279.20215	157.67883	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.922	BV	0.3068	258.93121	11.76223	50.7258
2	7.916	VB	0.4367	251.52098	7.83064	49.2742
Totals :				510.45219	19.59287	

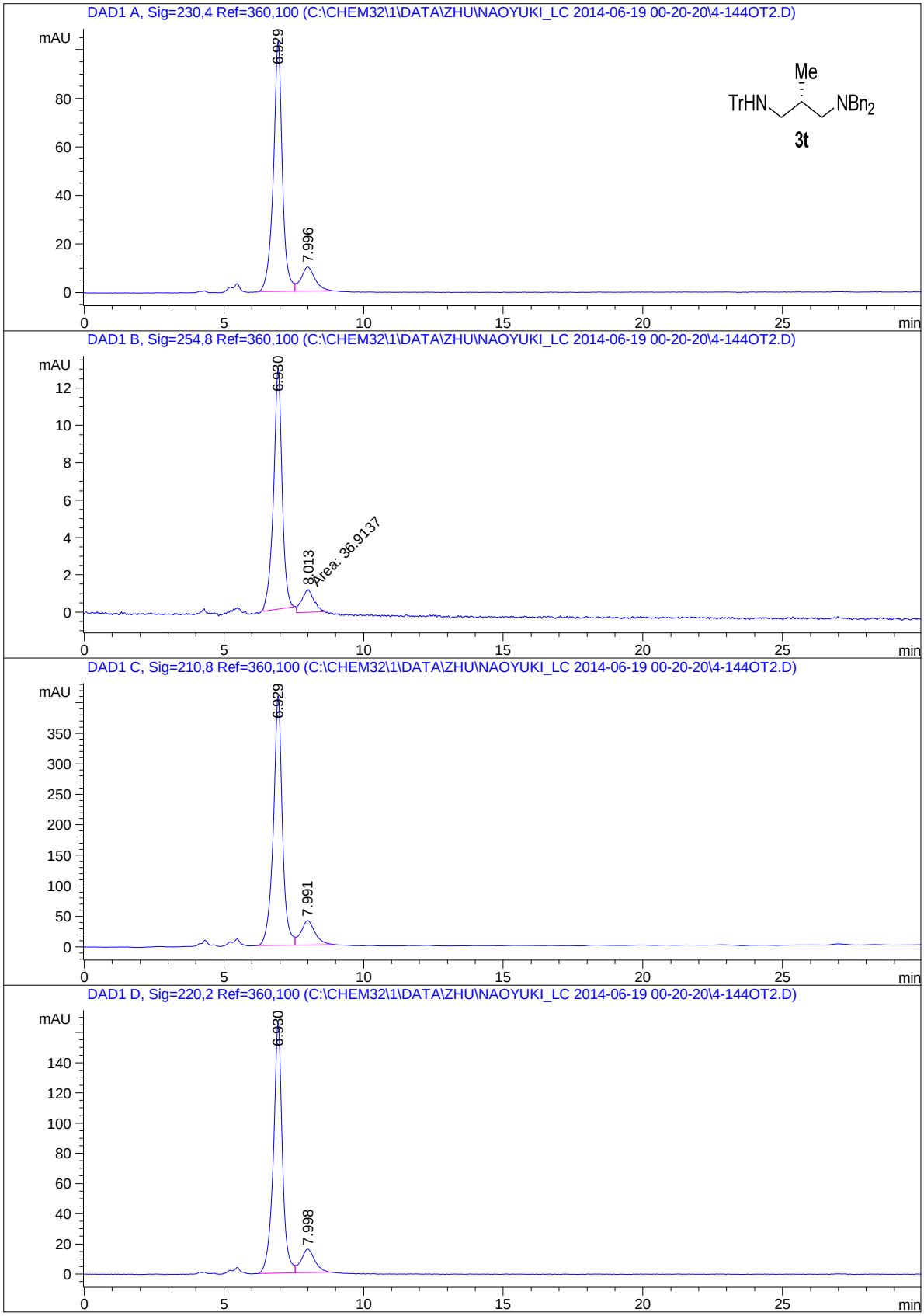
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.920	BV	0.3273	8671.25391	378.41690	47.6783
2	7.914	VB	0.5259	9515.76563	259.42557	52.3217
Totals :				1.81870e4	637.84247	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.920	VV	0.3215	3411.57471	152.21196	48.8617
2	7.911	VB	0.4968	3570.53491	102.90866	51.1383

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-19 00-20-20\4-144OT2.D
Sample Name: 4-144



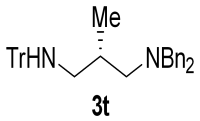
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-19 00-20-20\4-144OT2.D
Sample Name: 4-144

==========

Area Percent Report

==========

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



3t

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.929	BB	0.3235	2311.72388	103.14684	86.8229
2	7.996	BB	0.4543	350.85001	10.02393	13.1771
Totals :				2662.57388	113.17077	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.930	BB	0.3093	275.48633	12.89449	88.1838
2	8.013	MM	0.5036	36.91371	1.22172	11.8162
Totals :				312.40004	14.11621	

Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.929	BV	0.3252	9225.13281	408.92981	86.7127
2	7.991	VB	0.4809	1413.60596	40.13779	13.2873
Totals :				1.06387e4	449.06760	

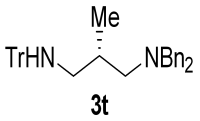
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.930	BB	0.3213	3715.90112	165.91286	87.1998
2	7.998	BB	0.4161	545.46191	15.82794	12.8002

Data File C:\CHEM32\1\DATA\ZHU\ZY 2014-09-15 17-57-02\4-144-R2OT.D
Sample Name: 4-144-RECRY

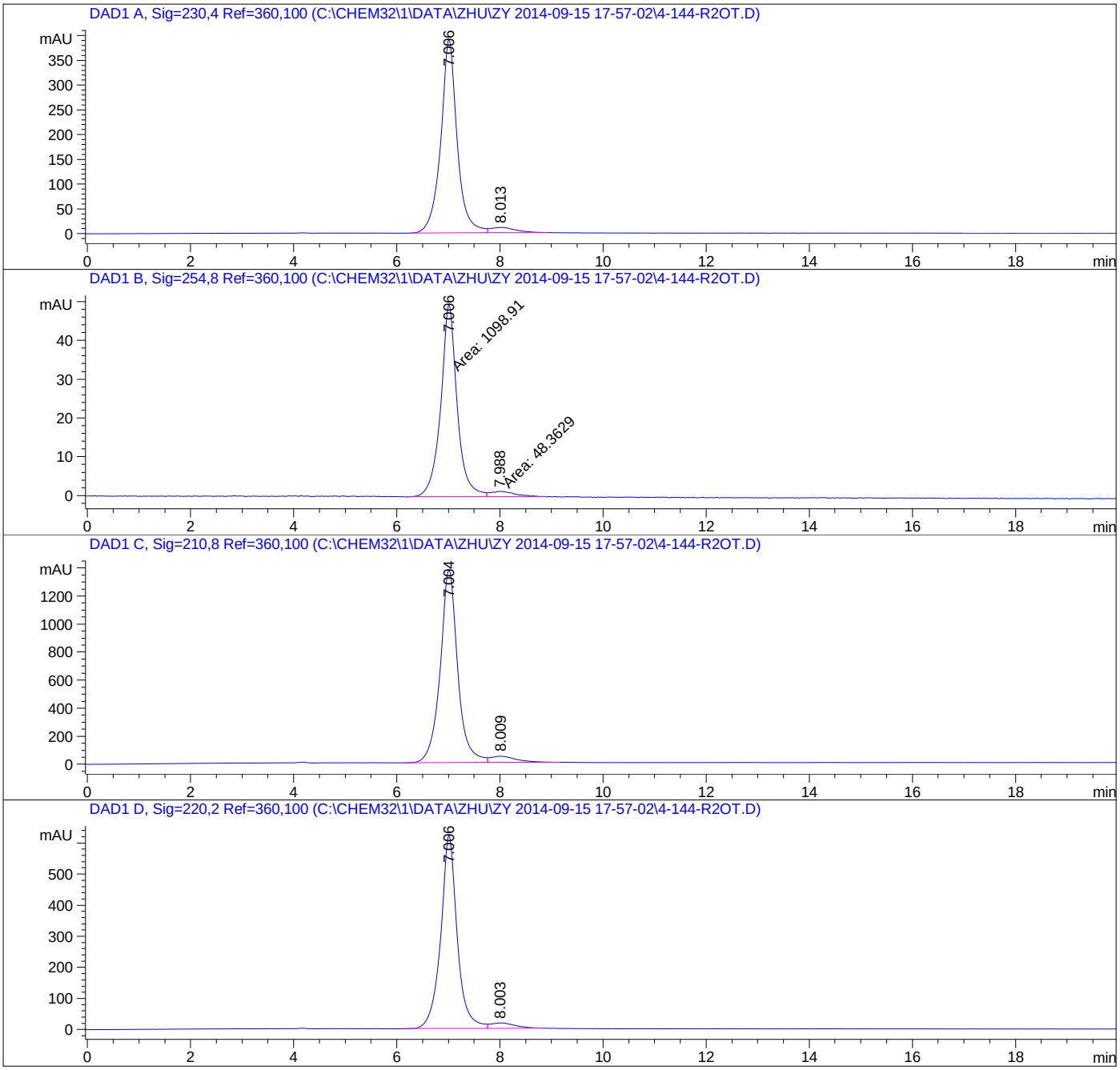
==========

Acq. Operator : NN Seq. Line : 2
Acq. Instrument : Instrument 1 Location : Vial 61
Injection Date : 9/15/2014 6:20:37 PM Inj : 1
Inj Volume : 5 µl
Different Inj Volume from Sequence ! Actual Inj Volume : 3 µl
Acq. Method : C:\CHEM32\1\DATA\ZHU\ZY 2014-09-15 17-57-02\02-30.M
Last changed : 9/15/2014 6:00:54 PM by NN
(modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\YMWHEXANES_PT8.M
Last changed : 9/6/2014 5:50:51 PM by RZ
(modified after loading)



3t

After recrystallization from ethyl ether/MeOH



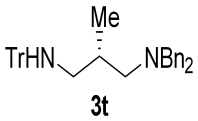
Data File C:\CHEM32\1\DATA\ZHU\ZY 2014-09-15 17-57-02\4-144-R2OT.D
Sample Name: 4-144-RECRY

==========

Area Percent Report

==========

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



3t

After recrystallization from ethyl ether/MeOH

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.006	BB	0.3231	8671.38867	390.45584	95.8083
2	8.013	BB	0.4118	379.38574	11.07224	4.1917
Totals :				9050.77441	401.52808	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.006	MF	0.3701	1098.90710	49.48890	95.7845
2	7.988	FM	0.5737	48.36290	1.40492	4.2155
Totals :				1147.27001	50.89382	

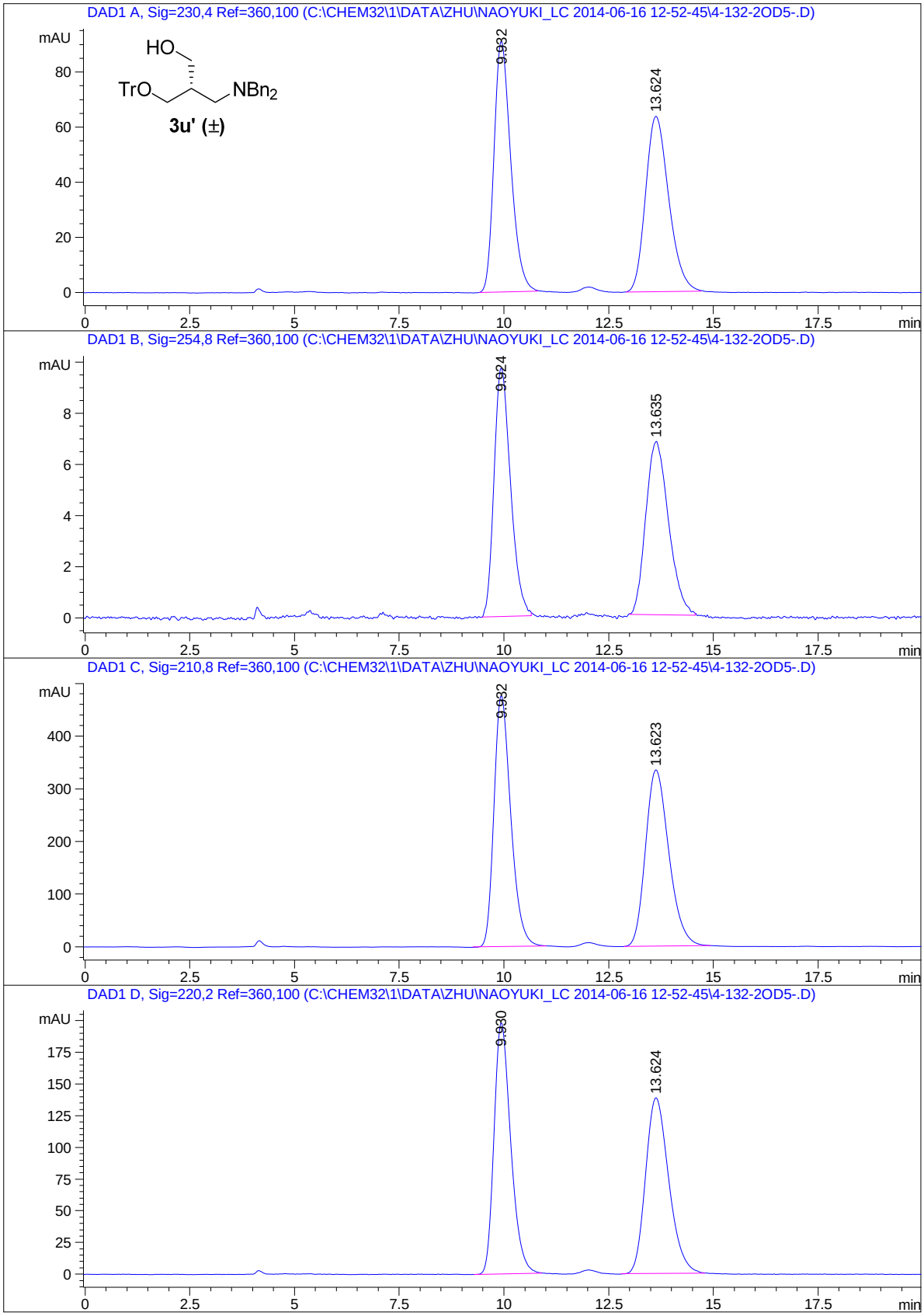
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.004	BV	0.3469	3.25558e4	1371.63477	95.3809
2	8.009	VB	0.4752	1576.60876	44.72670	4.6191
Totals :				3.41324e4	1416.36147	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.006	VV	0.3228	1.38906e4	621.35077	95.7627
2	8.003	VV	0.4125	614.62653	17.90522	4.2373

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-16 12-52-45\4-132-2OD5-.D
Sample Name: 4-132-2RAC



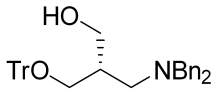
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-16 12-52-45\4-132-2OD5-.D
Sample Name: 4-132-2RAC

==========

Area Percent Report

==========

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



3u' (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.932	BB	0.4289	2533.77588	90.99421	50.7643
2	13.624	BB	0.5722	2457.47656	63.68421	49.2357
Totals :				4991.25244	154.67842	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.924	BB	0.4068	266.56473	9.69301	50.9082
2	13.635	BB	0.4563	257.05328	6.78068	49.0918
Totals :				523.61801	16.47370	

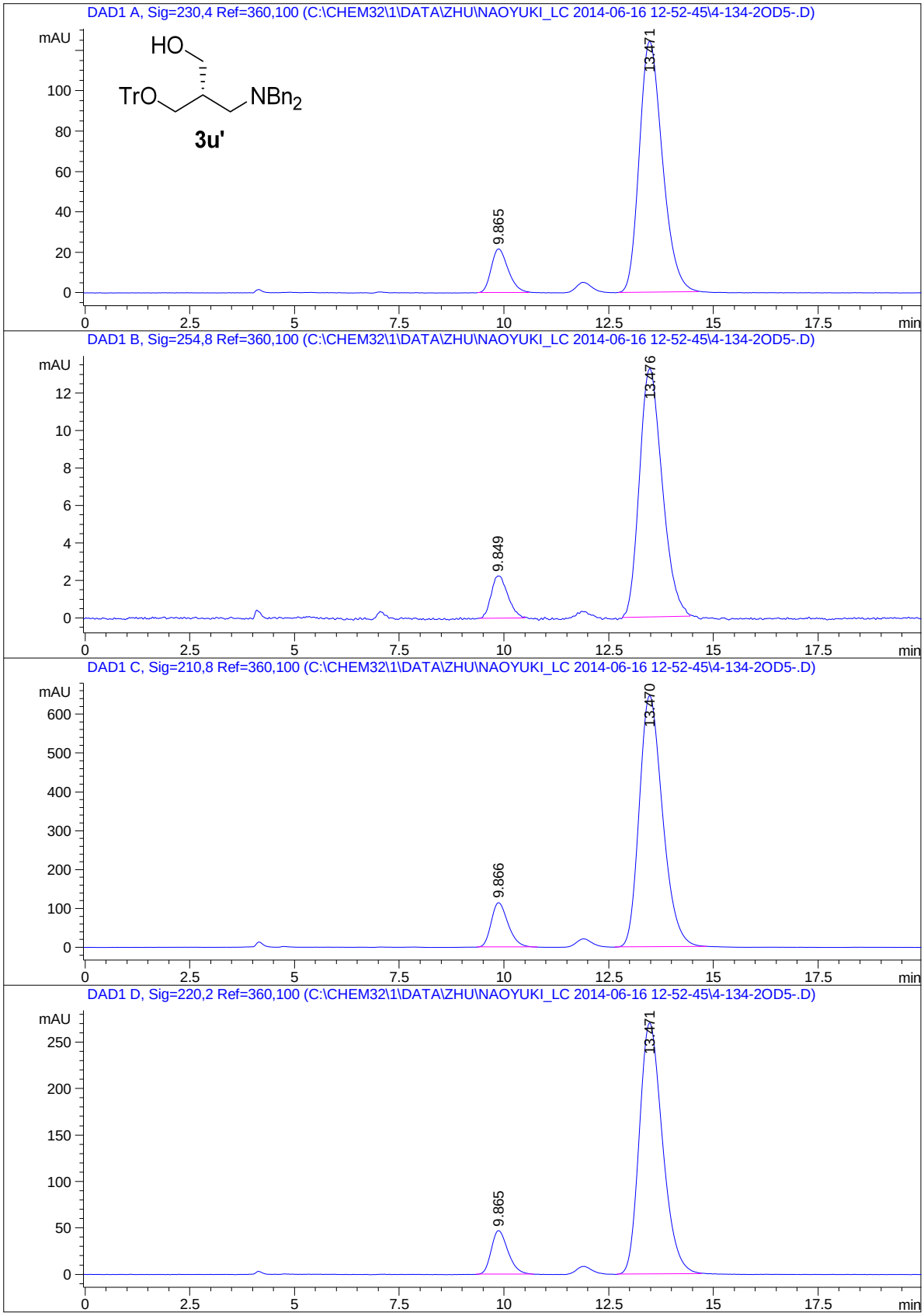
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.932	BB	0.4225	1.33378e4	476.59531	50.6475
2	13.623	BB	0.5848	1.29967e4	334.83649	49.3525
Totals :				2.63345e4	811.43179	

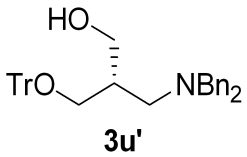
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.930	VB	0.4287	5515.77930	198.18132	50.7042
2	13.624	BB	0.5927	5362.56543	138.82190	49.2958

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-16 12-52-45\4-134-2OD5-.D
Sample Name: 4-134-2



Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-16 12-52-45\4-134-2OD5-.D
Sample Name: 4-134-2



3u'

==========

Area Percent Report

==========

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

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.865	BB	0.4278	607.15289	21.60720	11.2987
2	13.471	BB	0.5958	4766.50537	124.18014	88.7013
Totals :				5373.65826	145.78734	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.849	BB	0.3302	62.83102	2.26076	11.1210
2	13.476	BB	0.5217	502.14331	13.26266	88.8790
Totals :				564.97433	15.52342	

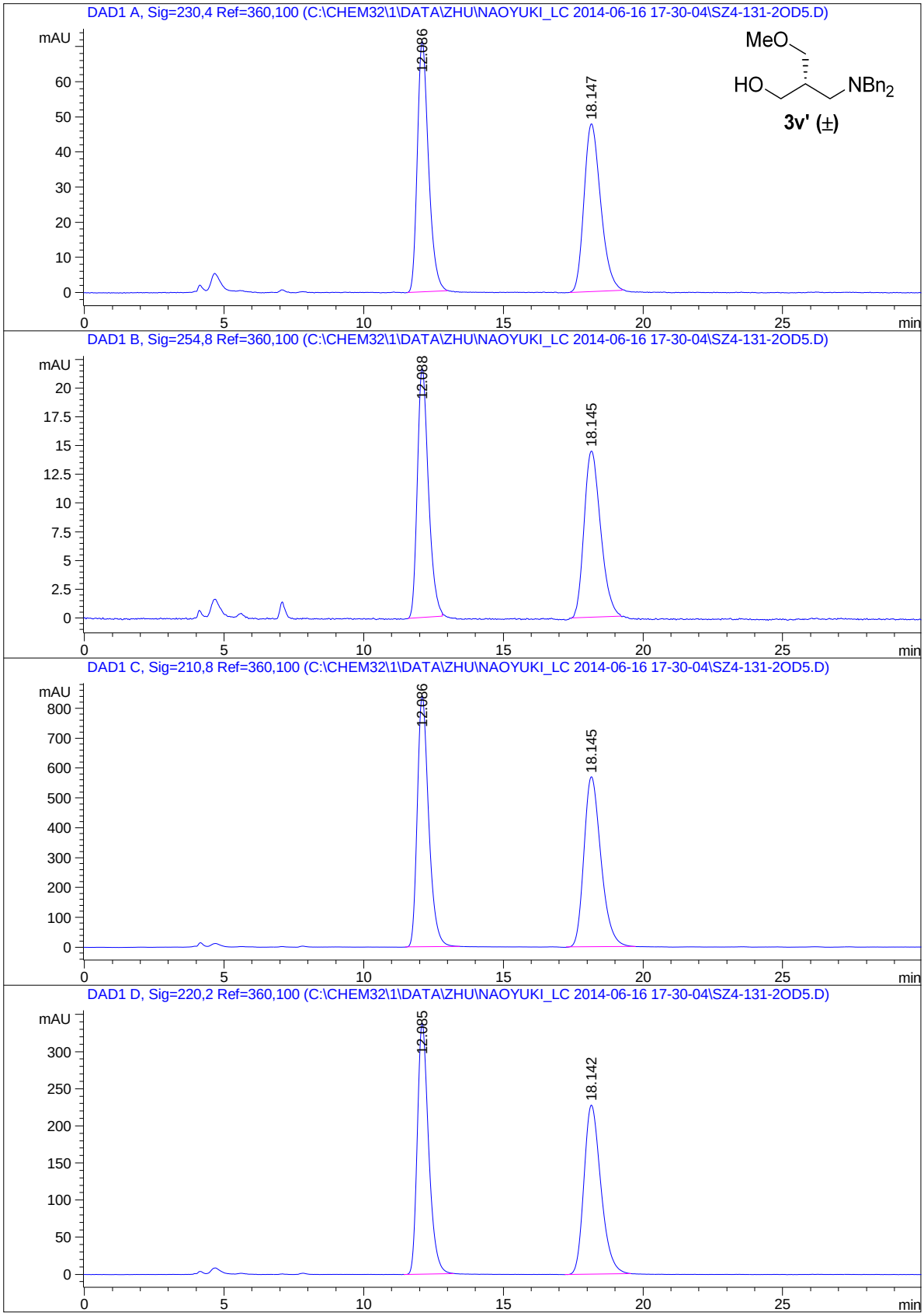
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.866	BB	0.4282	3219.06421	114.41489	11.3991
2	13.470	BB	0.5977	2.50206e4	646.21539	88.6009
Totals :				2.82397e4	760.63029	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.865	BB	0.4204	1317.27222	47.08005	11.2455
2	13.471	BB	0.5788	1.03965e4	270.28958	88.7545

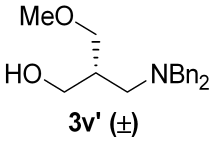
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-16 17-30-04\SZ4-131-2OD5.D
Sample Name: 4-131-2RAC



Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-16 17-30-04\SZ4-131-2OD5.D
Sample Name: 4-131-2RAC

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

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



3v' (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.086	BB	0.4250	1989.29346	71.40551	50.0320
2	18.147	BB	0.6027	1986.74927	47.82552	49.9680
Totals :				3976.04272	119.23103	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.088	BB	0.4137	598.18109	21.69661	49.9848
2	18.145	BB	0.5493	598.54535	14.50902	50.0152
Totals :				1196.72644	36.20562	

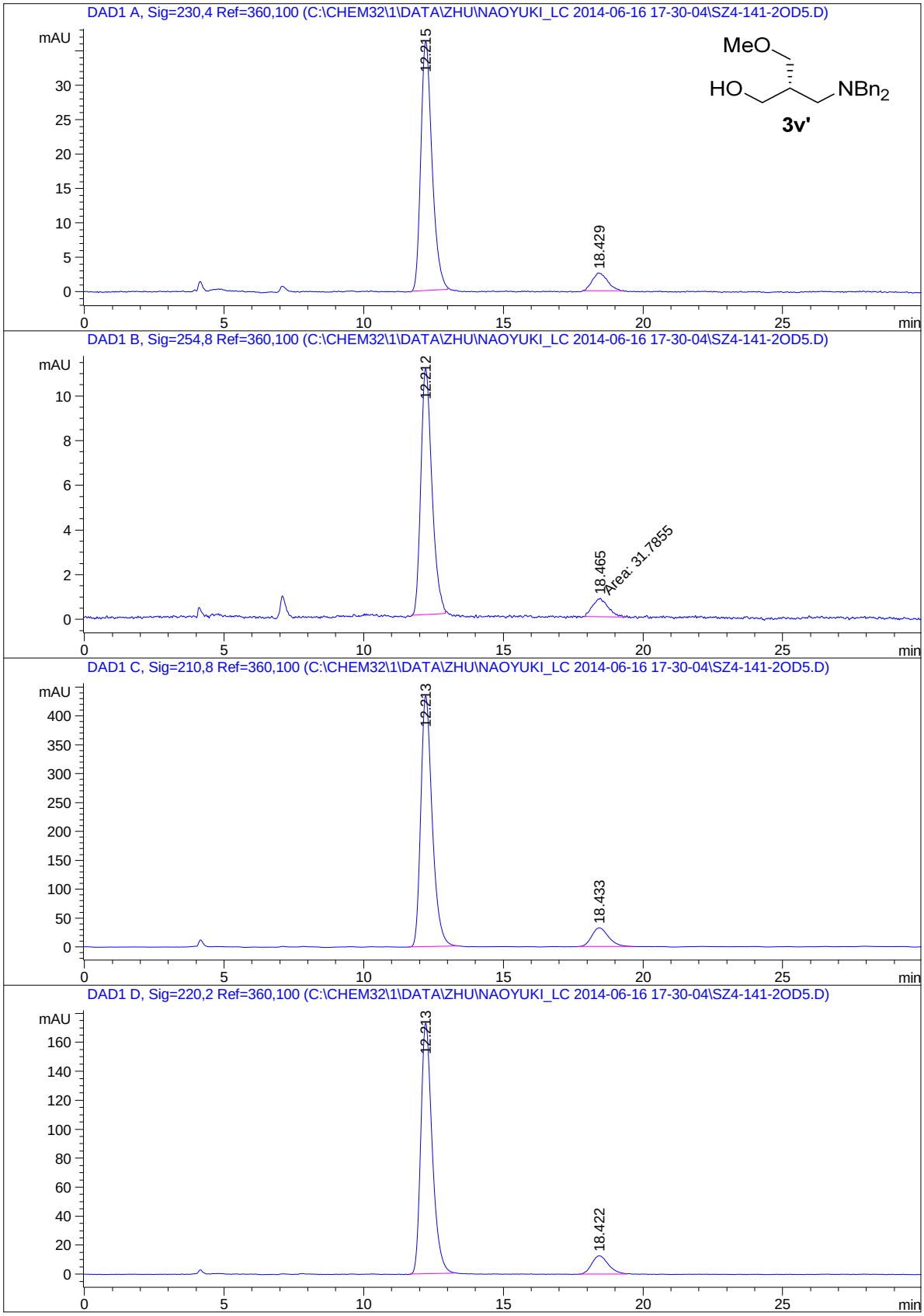
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.086	BB	0.4327	2.38480e4	841.37036	49.6299
2	18.145	BB	0.6511	2.42037e4	570.29602	50.3701
Totals :				4.80517e4	1411.66638	

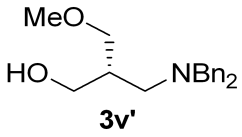
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.085	VB	0.4301	9523.86133	338.67139	49.7844
2	18.142	BB	0.6356	9606.36621	227.98479	50.2156

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-16 17-30-04\SZ4-141-2OD5.D
Sample Name: 4-141-2



Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-16 17-30-04\SZ4-141-2OD5.D
Sample Name: 4-141-2



3v'

==========

Area Percent Report

==========

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

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.215	BB	0.4219	1013.01355	36.26049	90.9484
2	18.429	BB	0.4605	100.81927	2.59961	9.0516
Totals :				1113.83282	38.86010	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.212	BB	0.4198	304.01303	11.02126	90.5343
2	18.465	MF	0.6388	31.78552	8.29257e-1	9.4657
Totals :				335.79855	11.85052	

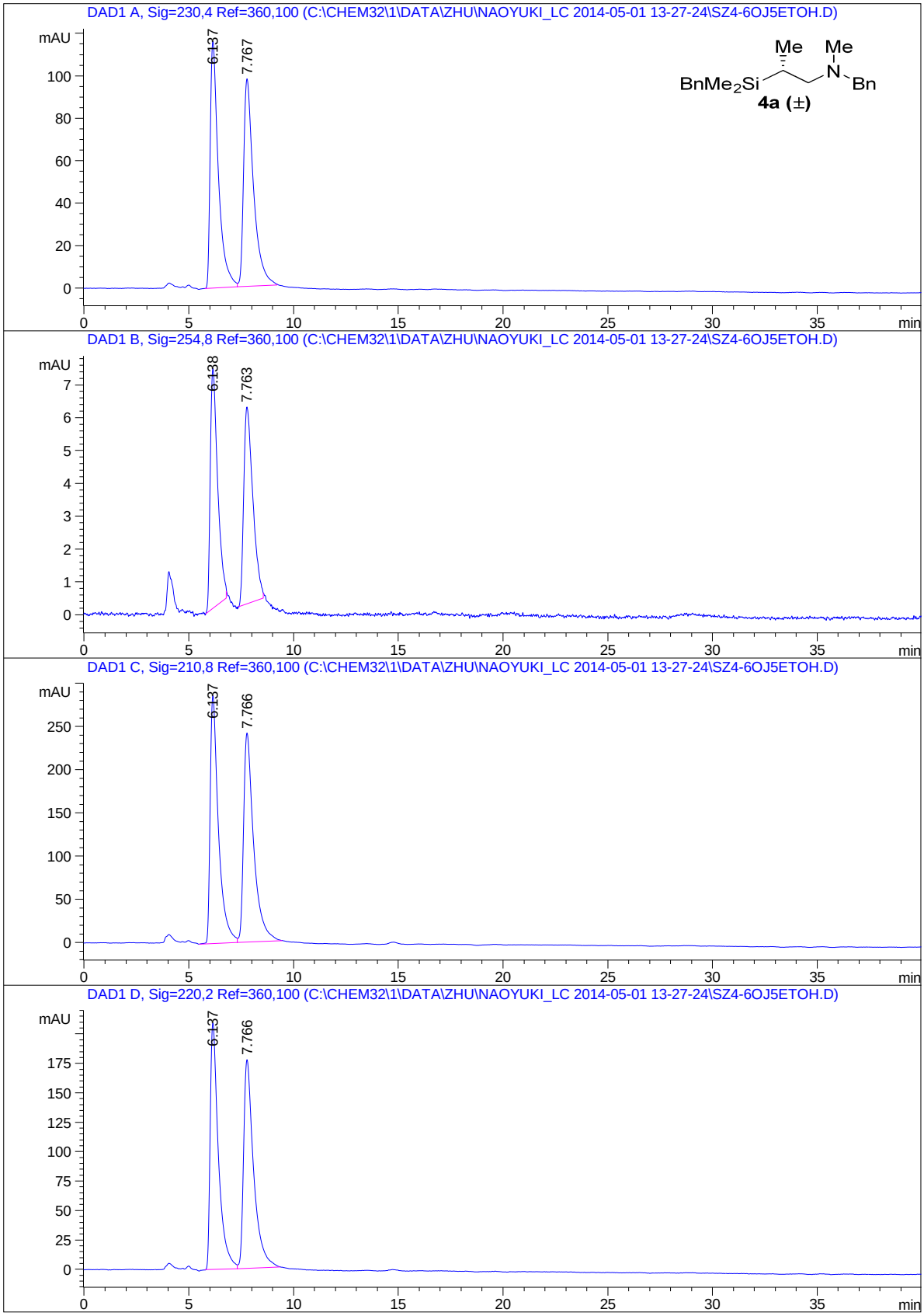
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.213	VB	0.4315	1.23479e4	434.54886	89.9246
2	18.433	BB	0.5295	1383.49695	32.57787	10.0754
Totals :				1.37314e4	467.12672	

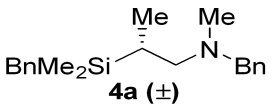
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.213	BB	0.4237	4896.58301	173.24704	90.2640
2	18.422	BV	0.4937	528.15222	12.63457	9.7360

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-05-01 13-27-24\SZ4-6OJ5ETOH.D
Sample Name: 4-6



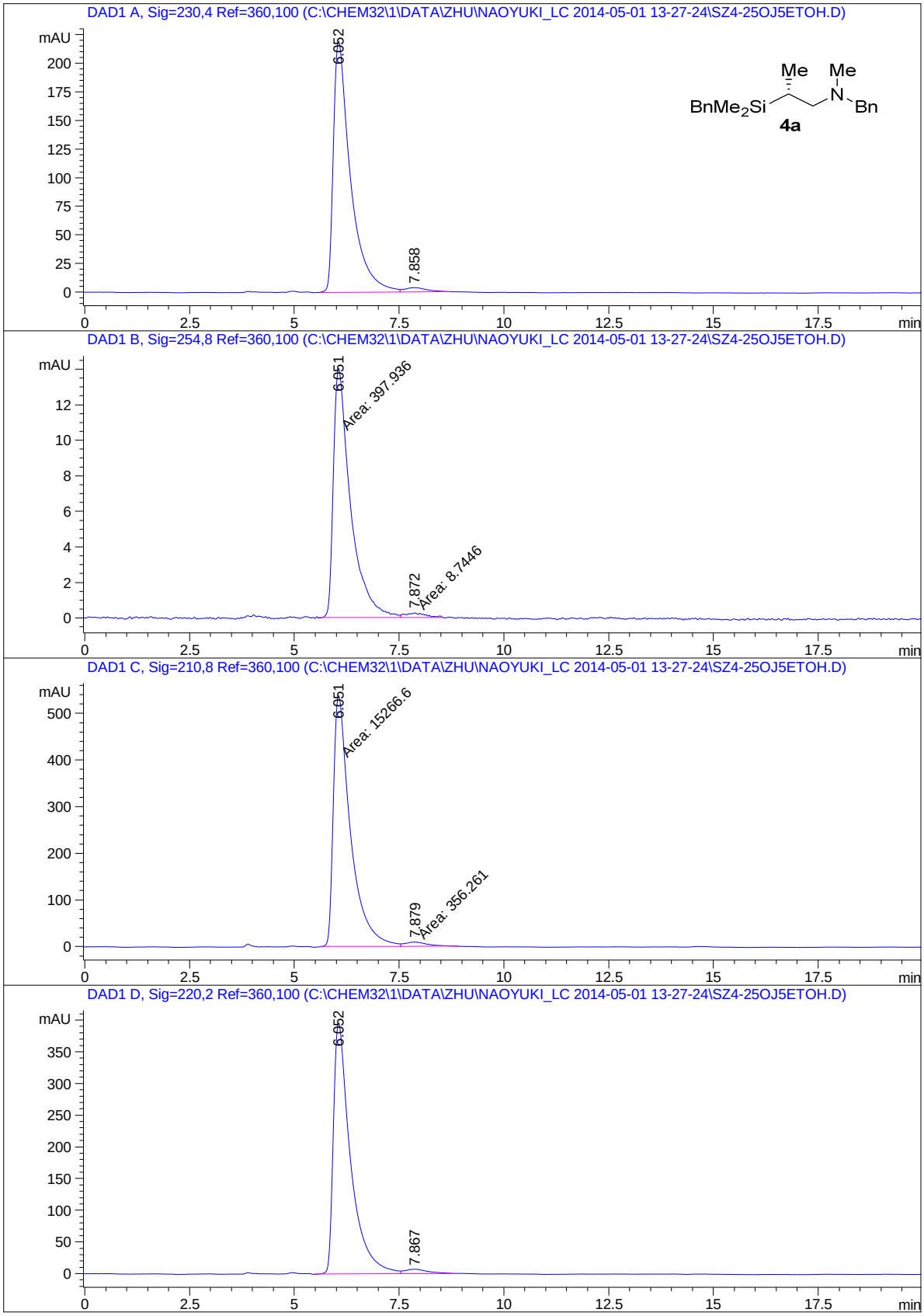
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-05-01 13-27-24\SZ4-6OJ5ETOH.D
Sample Name: 4-6



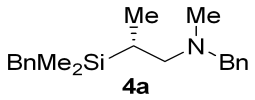
4a (±)

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

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


    Signal 1: DAD1 A, Sig=230,4 Ref=360,100

    Peak RetTime Type  Width     Area      Height     Area
      #   [min]        [min]   [mAU*s]     [mAU]       %
    ----|-------|----|-------|----------|----------|--------|
       1   6.137 BB    0.4022 3173.57568  116.34707  49.4173
       2   7.767 BB    0.4809 3248.41846   97.94522  50.5827

    Totals :                   6421.99414  214.29229



    Signal 2: DAD1 B, Sig=254,8 Ref=360,100

    Peak RetTime Type  Width     Area      Height     Area
      #   [min]        [min]   [mAU*s]     [mAU]       %
    ----|-------|----|-------|----------|----------|--------|
       1   6.138 BB    0.3629  179.75917    7.30953  49.7695
       2   7.763 BB    0.4111  181.42436    5.99388  50.2305

    Totals :                    361.18353   13.30340



    Signal 3: DAD1 C, Sig=210,8 Ref=360,100

    Peak RetTime Type  Width     Area      Height     Area
      #   [min]        [min]   [mAU*s]     [mAU]       %
    ----|-------|----|-------|----------|----------|--------|
       1   6.137 VV    0.4014 7900.09424  286.79486  49.2220
       2   7.766 VB    0.4946 8149.81885  242.16519  50.7780

    Totals :                   1.60499e4   528.96005



    Signal 4: DAD1 D, Sig=220,2 Ref=360,100

    Peak RetTime Type  Width     Area      Height     Area
      #   [min]        [min]   [mAU*s]     [mAU]       %
    ----|-------|----|-------|----------|----------|--------|
       1   6.137 BV    0.3910 5732.97607  209.69382  49.2137
       2   7.766 VB    0.4811 5916.17969  177.38121  50.7863
```

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-05-01 13-27-24\SZ4-25OJ5ETOH.D
Sample Name: 4-25



Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-05-01 13-27-24\SZ4-25OJ5ETOH.D
Sample Name: 4-25



4a

==========

Area Percent Report

==========

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

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.052	BB	0.4158	6242.85059	219.49098	97.7232
2	7.858	BB	0.4565	145.45206	3.87022	2.2768
Totals :				6388.30264	223.36120	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.051	MF	0.4732	397.93604	14.01715	97.8498
2	7.872	FM	0.5467	8.74460	2.66588e-1	2.1502
Totals :				406.68063	14.28373	

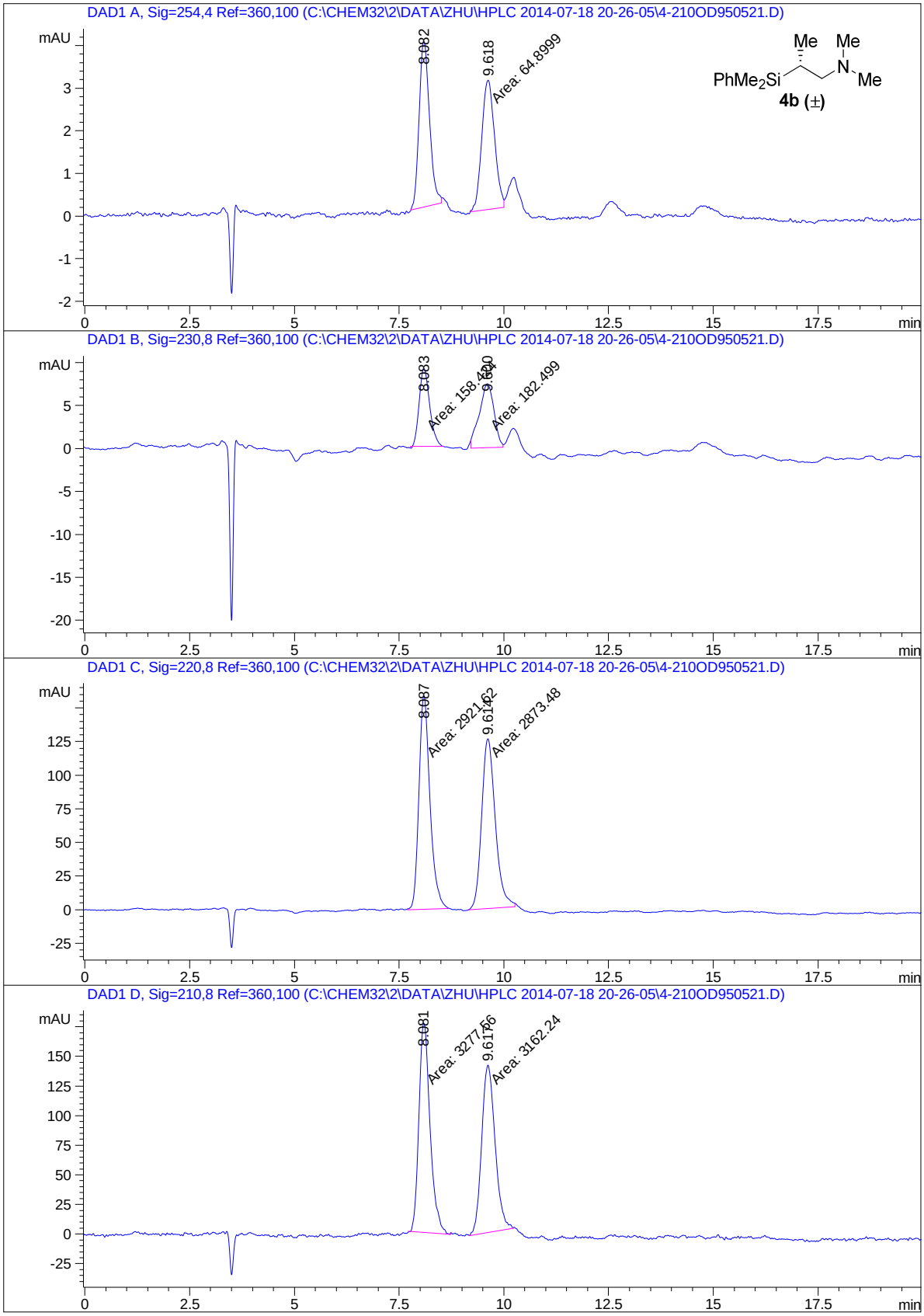
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.051	MF	0.4730	1.52666e4	537.88672	97.7196
2	7.879	FM	0.6321	356.26111	9.39305	2.2804
Totals :				1.56229e4	547.27977	

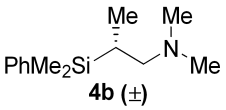
Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.052	BB	0.4124	1.12970e4	396.48349	97.5120
2	7.867	BV	0.4700	288.23666	7.21630	2.4880

Data File C:\CHEM32\2\DATA\ZHU\HPLC 2014-07-18 20-26-05\4-210OD950521.D
Sample Name: 4-210RAC



Data File C:\CHEM32\2\DATA\ZHU\HPLC 2014-07-18 20-26-05\4-210OD950521.D
Sample Name: 4-210RAC



4b (±)

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

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

Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.082	BB	0.2482	67.50064	3.89427	50.9821
2	9.618	MM	0.3558	64.89990	3.04010	49.0179
Totals :				132.40054	6.93437	

Signal 2: DAD1 B, Sig=230,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.083	MM	0.2912	158.42448	9.06675	46.4692
2	9.600	FM	0.4065	182.49931	7.48326	53.5308
Totals :				340.92380	16.55001	

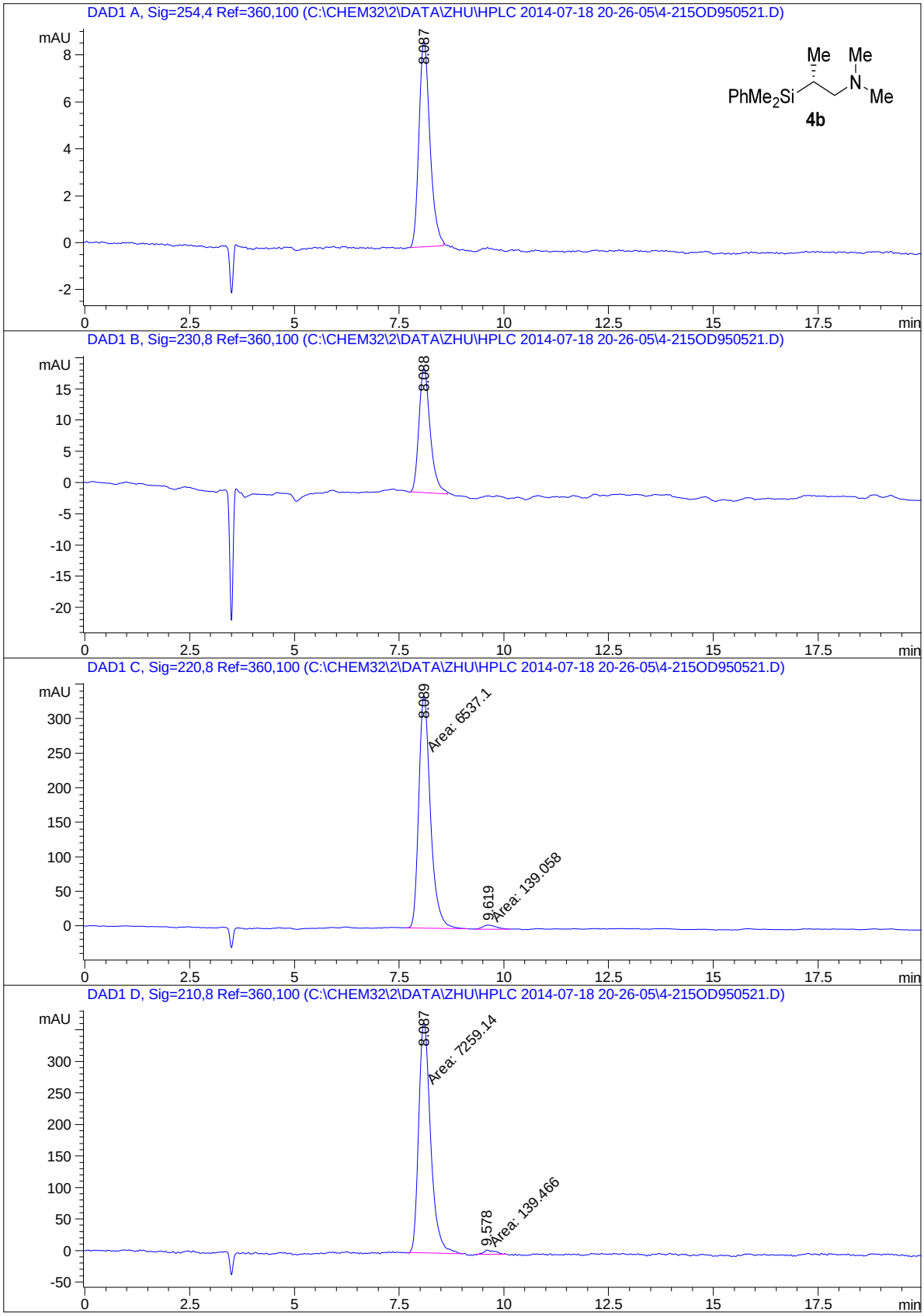
Signal 3: DAD1 C, Sig=220,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.087	MM	0.3064	2921.61743	158.90198	50.4153
2	9.614	MM	0.3789	2873.47827	126.38116	49.5847
Totals :				5795.09570	285.28314	

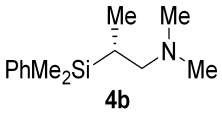
Signal 4: DAD1 D, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.081	MM	0.3086	3277.56421	177.00522	50.8954
2	9.617	MM	0.3721	3162.24097	141.63374	49.1046

Data File C:\CHEM32\2\DATA\ZHU\HPLC 2014-07-18 20-26-05\4-215OD950521.D
Sample Name: 4-215OD



Data File C:\CHEM32\2\DATA\ZHU\HPLC 2014-07-18 20-26-05\4-215OD950521.D
Sample Name: 4-215OD



4b

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

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

Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.087	BB	0.2830	159.94376	8.76087	100.0000
Totals :				159.94376	8.76087	

Signal 2: DAD1 B, Sig=230,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.088	BB	0.2806	372.68958	19.89025	100.0000
Totals :				372.68958	19.89025	

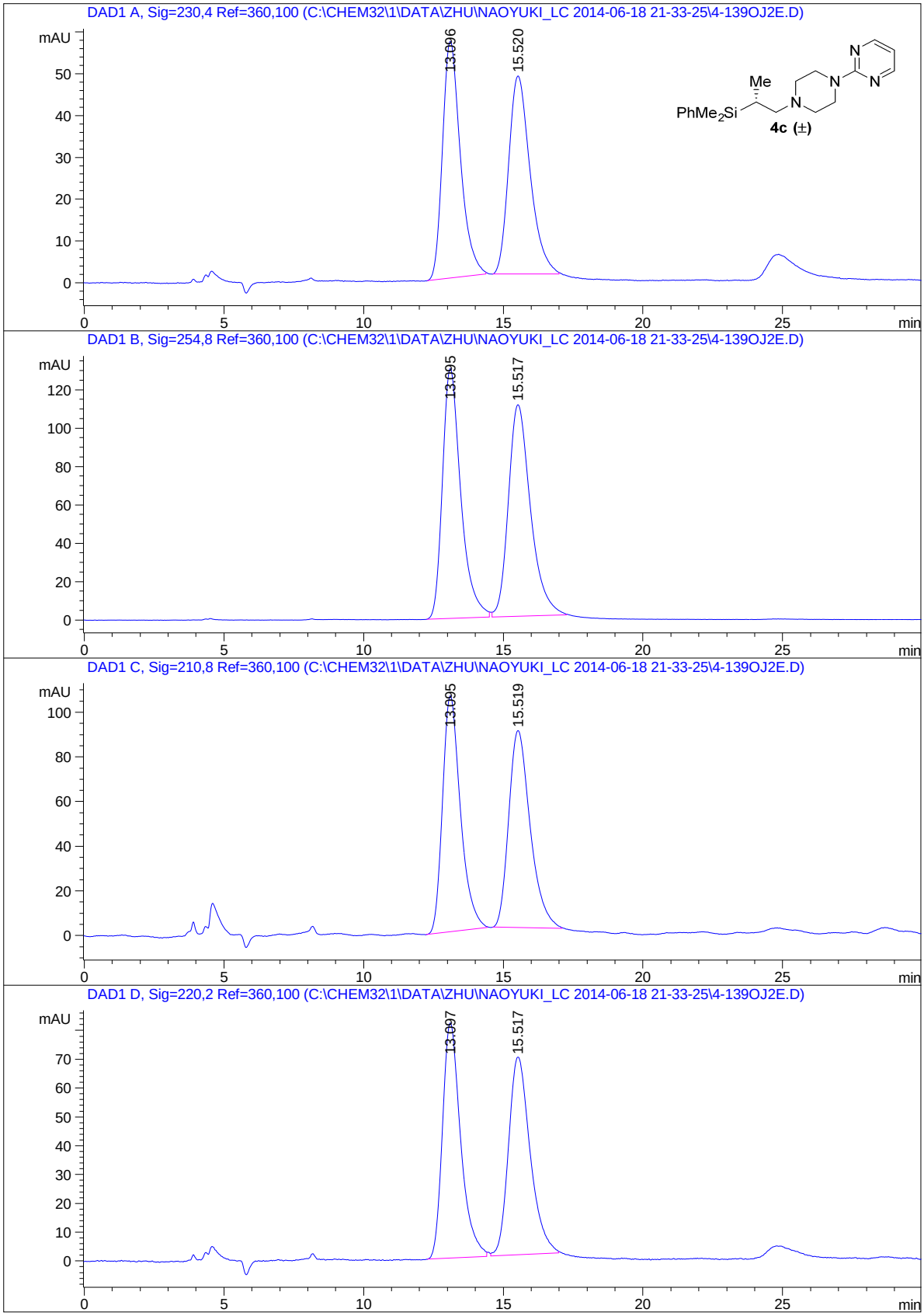
Signal 3: DAD1 C, Sig=220,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.089	MM	0.3234	6537.09961	336.93506	97.9171
2	9.619	MM	0.3763	139.05821	6.15933	2.0829
Totals :				6676.15782	343.09439	

Signal 4: DAD1 D, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.087	MM	0.3312	7259.13721	365.24109	98.1150
2	9.578	MM	0.3311	139.46565	7.02036	1.8850
Totals :				7398.60286	372.26145	

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-18 21-33-25\4-139OJ2E.D
Sample Name: 4-139RAC



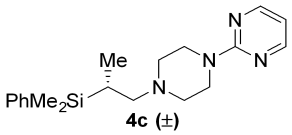
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-18 21-33-25\4-139OJ2E.D
Sample Name: 4-139RAC

==========

Area Percent Report

==========

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



4c (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.096	BB	0.6682	2526.35693	56.66058	50.0174
2	15.520	BB	0.7472	2524.59790	47.41689	49.9826
Totals :				5050.95483	104.07747	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.095	BB	0.6898	5963.67432	130.34309	49.4922
2	15.517	BB	0.8152	6086.04932	110.40014	50.5078
Totals :				1.20497e4	240.74323	

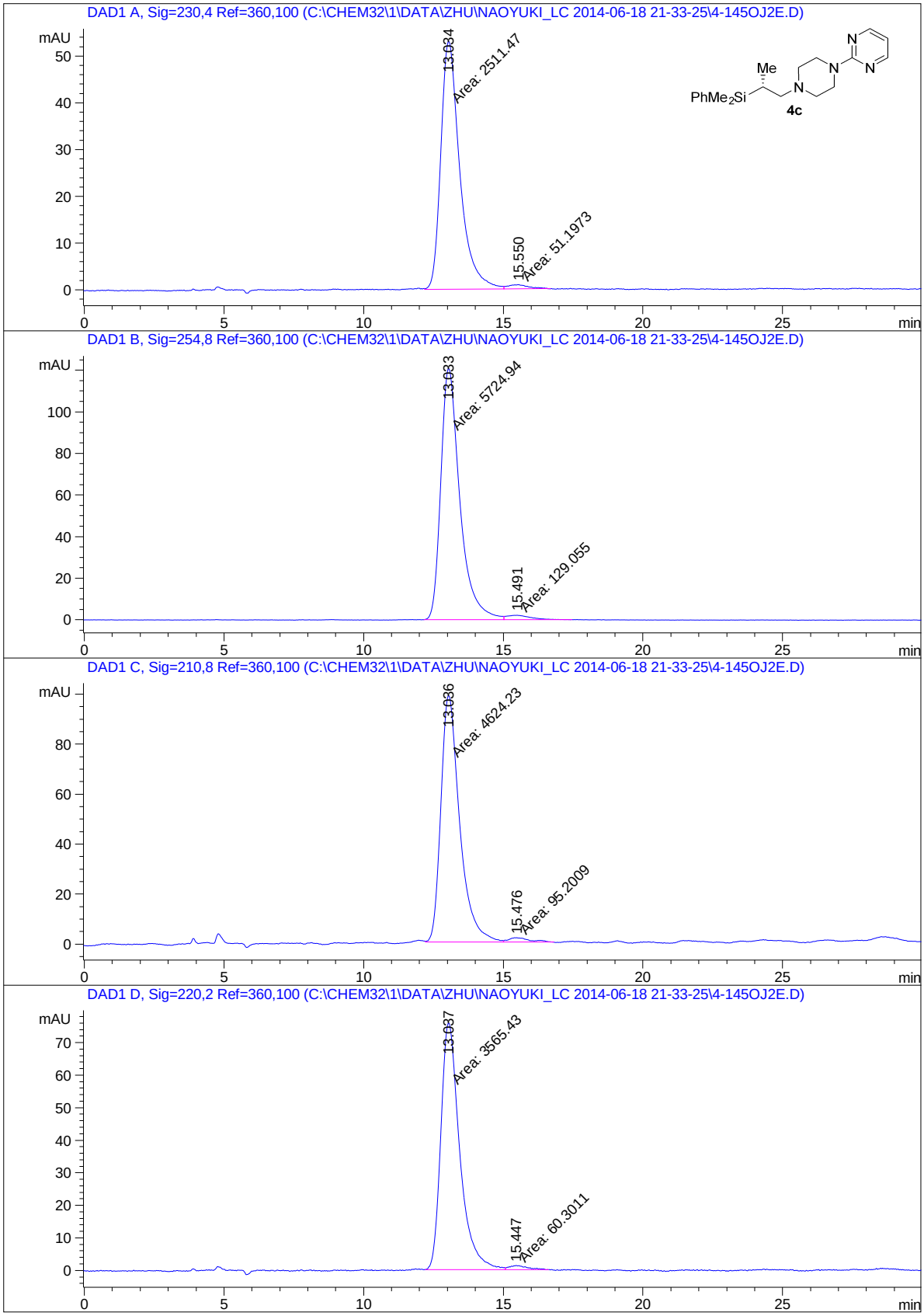
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.095	BB	0.6472	4727.47461	105.81461	50.0075
2	15.519	BB	0.7602	4726.05273	88.33138	49.9925
Totals :				9453.52734	194.14599	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.097	BB	0.6118	3694.31274	81.65907	49.9695
2	15.517	BB	0.6647	3698.82690	68.64277	50.0305

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-18 21-33-25\4-145OJ2E.D
Sample Name: 4-145



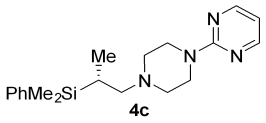
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-18 21-33-25\4-145OJ2E.D
Sample Name: 4-145

==========

Area Percent Report

==========

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



4c

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.034	MF	0.7892	2511.46509	53.04081	98.0022
2	15.550	FM	0.9028	51.19725	9.45118e-1	1.9978
Totals :				2562.66234	53.98592	

Signal 2: DAD1 B, Sig=254,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.033	MF	0.7899	5724.94434	120.79826	97.7954
2	15.491	FM	0.9957	129.05489	2.16014	2.2046
Totals :				5853.99922	122.95840	

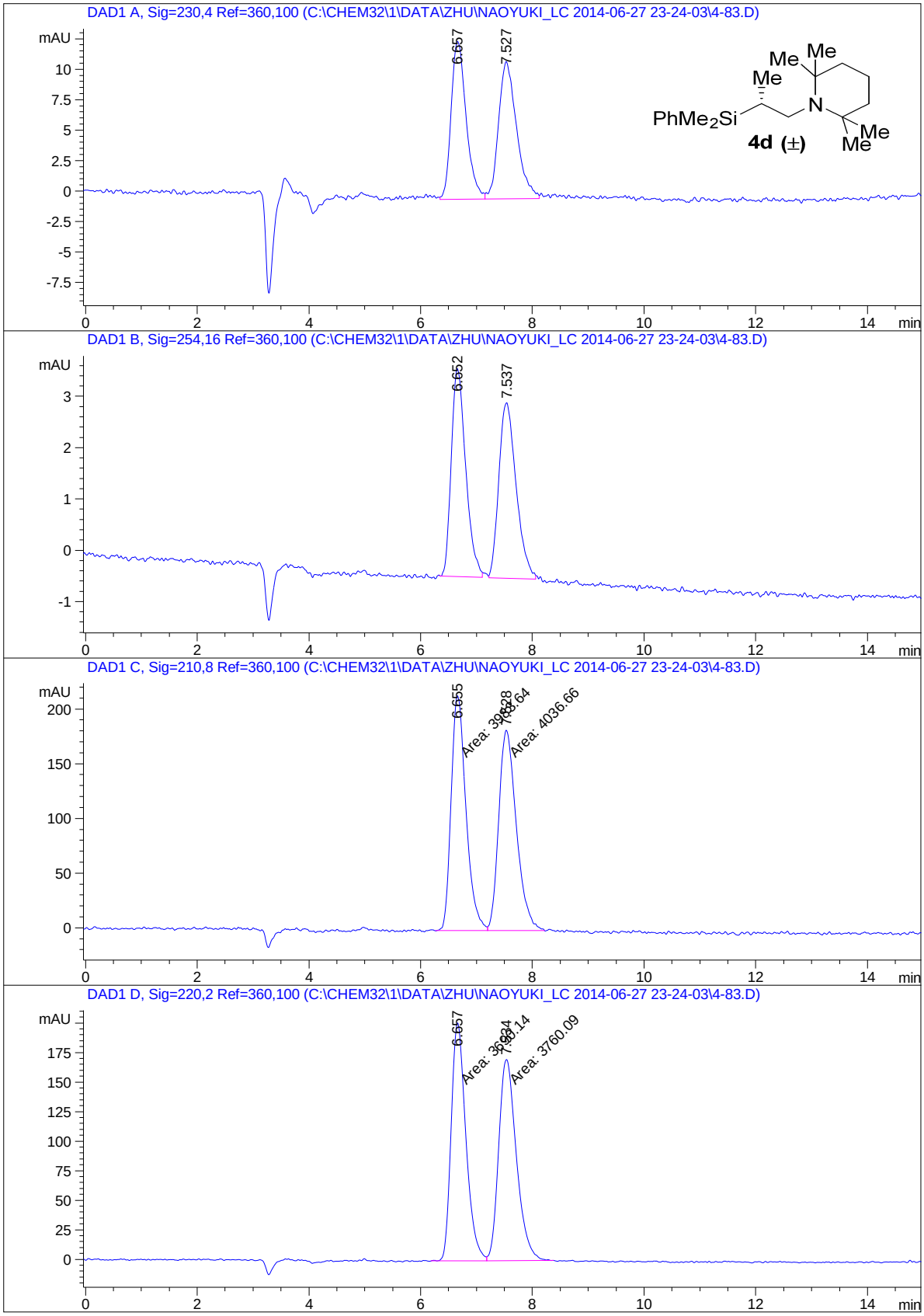
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.036	MF	0.7814	4624.22998	98.62783	97.9828
2	15.476	FM	0.8769	95.20088	1.80952	2.0172
Totals :				4719.43086	100.43735	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.037	MF	0.7829	3565.42554	75.90273	98.3369
2	15.447	FM	0.7533	60.30106	1.33423	1.6631

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-27 23-24-03\4-83.D
Sample Name: 4-83



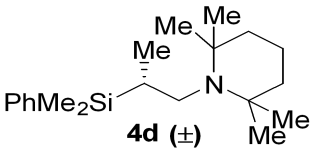
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-27 23-24-03\4-83.D
Sample Name: 4-83

==========

Area Percent Report

==========

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



4d (±)

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.657	BV	0.2766	243.17319	12.97867	49.0517
2	7.527	VV	0.3133	252.57603	11.27599	50.9483
Totals :				495.74922	24.25467	

Signal 2: DAD1 B, Sig=254,16 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.652	BB	0.2777	72.95206	4.05933	49.7557
2	7.537	BB	0.2930	73.66839	3.42364	50.2443
Totals :				146.62045	7.48297	

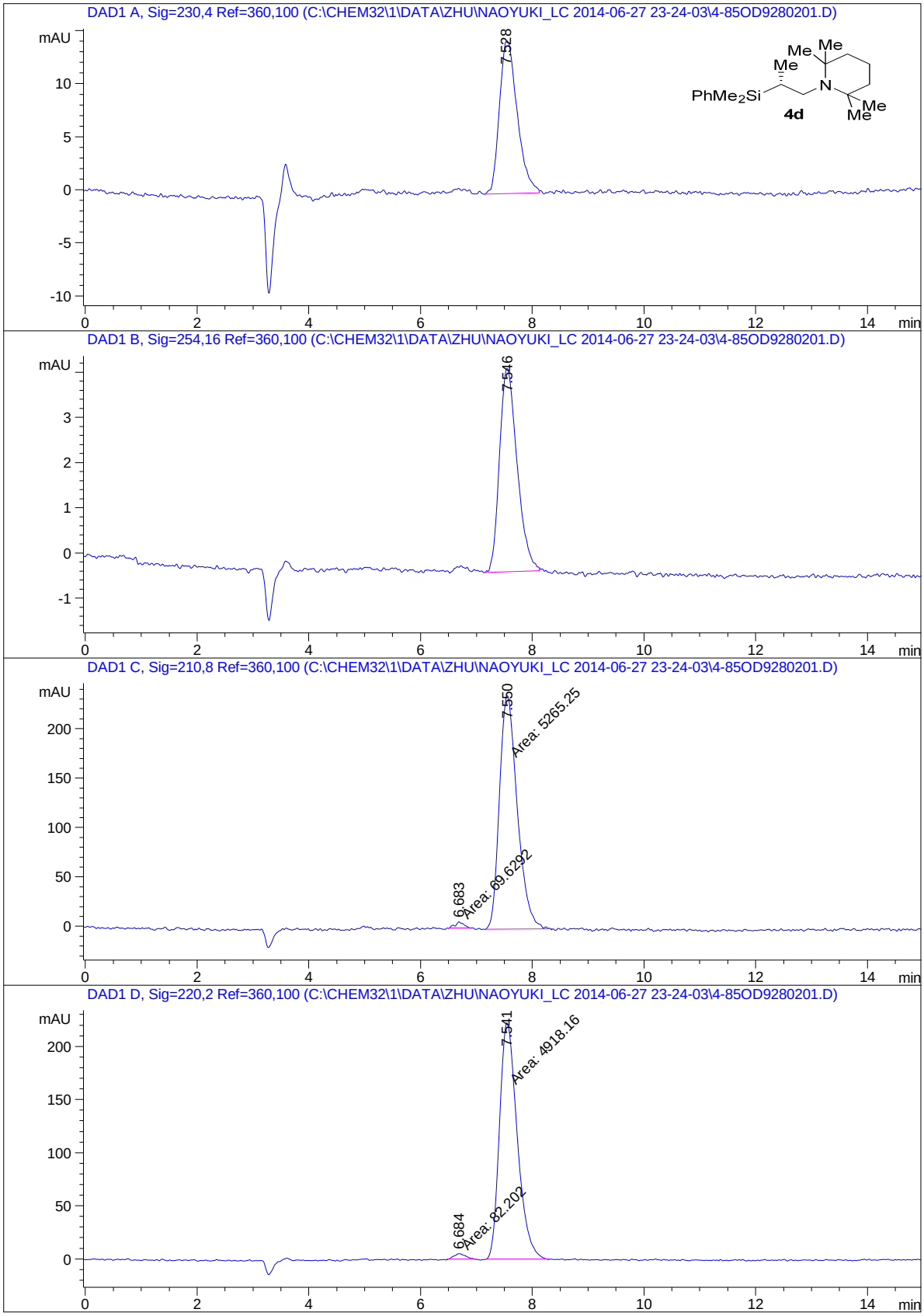
Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.655	MF	0.3089	3983.64282	214.93649	49.6695
2	7.528	FM	0.3667	4036.66064	183.46571	50.3305
Totals :				8020.30347	398.40221	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.657	MF	0.3054	3690.13794	201.38437	49.5306
2	7.534	FM	0.3680	3760.08521	170.27754	50.4694

Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-27 23-24-03\4-85OD9280201.D
Sample Name: 4-85



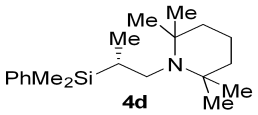
Data File C:\CHEM32\1\DATA\ZHU\NAOYUKI_LC 2014-06-27 23-24-03\4-85OD9280201.D
Sample Name: 4-85

==========

Area Percent Report

==========

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



4d

Signal 1: DAD1 A, Sig=230,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.528	VB	0.2862	320.17859	14.35725	100.0000
Totals :				320.17859	14.35725	

Signal 2: DAD1 B, Sig=254,16 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.546	BB	0.3323	98.84666	4.49972	100.0000
Totals :				98.84666	4.49972	

Signal 3: DAD1 C, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.683	MM	0.1787	69.62920	6.49310	1.3052
2	7.550	MM	0.3710	5265.25342	236.54596	98.6948
Totals :				5334.88262	243.03906	

Signal 4: DAD1 D, Sig=220,2 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.684	MM	0.2499	82.20201	5.48340	1.6439
2	7.541	MM	0.3683	4918.15723	222.55307	98.3561
Totals :				5000.35924	228.03647	