

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN092618\  
 Data File : VN051521.D  
 Acq On : 26 Sep 2018 7:52  
 Operator : MD\SY  
 Sample : PB113167ZHE#10  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB113167ZHE#10

Quant Time: Sep 26 08:37:34 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N092318W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 24 06:41:32 2018  
 Response via : Initial Calibration

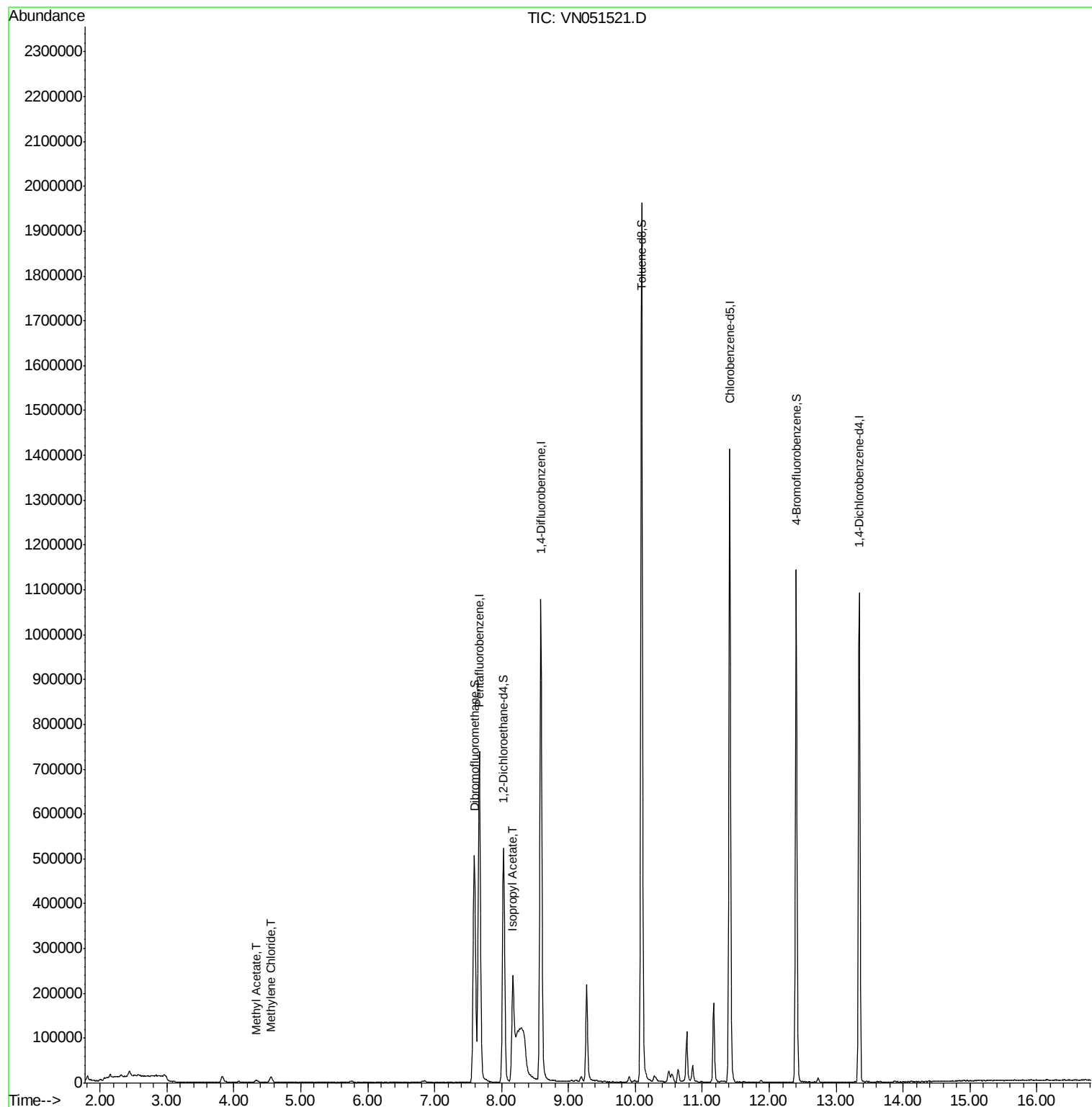
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.67  | 168  | 628314   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.59  | 114  | 1012198  | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 857861   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35 | 152  | 314183   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 453502   | 57.62  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 115.24% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 385328   | 47.61  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 95.22%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1410248  | 46.27  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 92.54%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 384643   | 39.01  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 78.02%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 18) Methyl Acetate          | 4.34  | 43   | 10724    | 1.789  | ug/l #  | 78       |
| 20) Methylene Chloride      | 4.55  | 84   | 9189     | 1.180  | ug/l #  | 89       |
| 43) Isopropyl Acetate       | 8.17  | 43   | 321981   | 26.421 | ug/l #  | 91       |

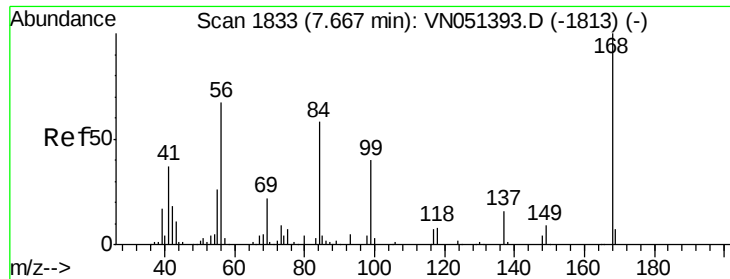
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_N\DATA\VN092618\  
Data File : VN051521.D  
Acq On : 26 Sep 2018 7:52  
Operator : MD\SY  
Sample : PB113167ZHE#10  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB113167ZHE#10

Quant Time: Sep 26 08:37:34 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N092318W.M  
Quant Title : SW846 8260  
QLast Update : Mon Sep 24 06:41:32 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

Instrument :

MSVOA\_N

ClientSampleId :

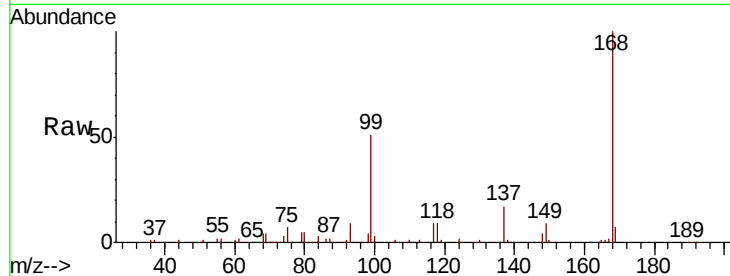
PB113167ZHE#10

Tgt Ion:168 Resp: 628314

Ion Ratio Lower Upper

168 100

99 51.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051393.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051393.D (-1813) (-)

7.67

250000

200000

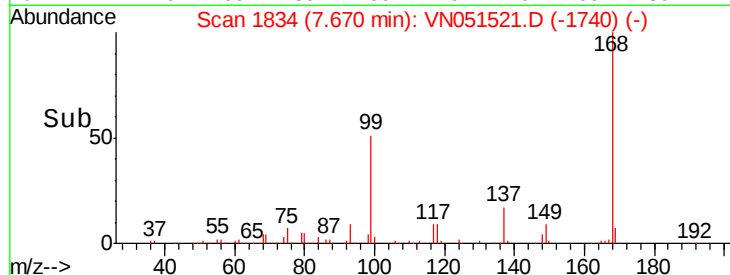
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 1.789 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051521.D

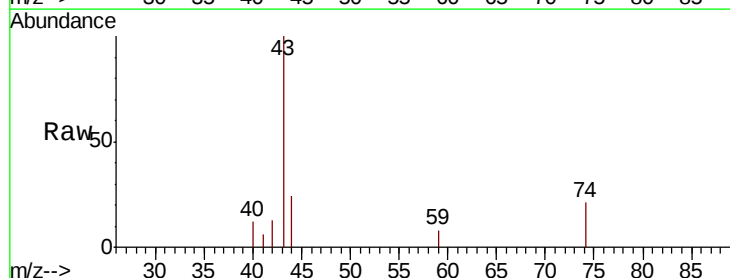
Acq: 26 Sep 2018 7:52

Tgt Ion: 43 Resp: 10724

Ion Ratio Lower Upper

43 100

74 12.8 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-771) (-)

Ion 74.00 (73.70 to 74.70): VN051393.D (-771) (-)

4.34

4000

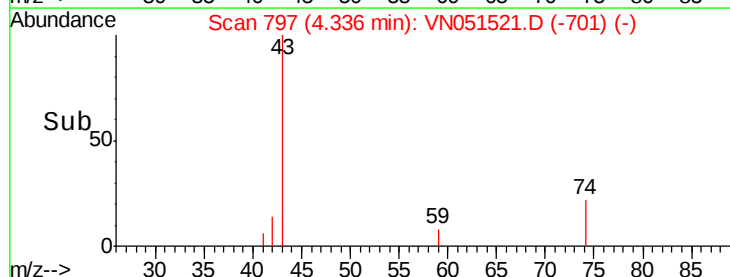
3000

2000

1000

0

Time-->

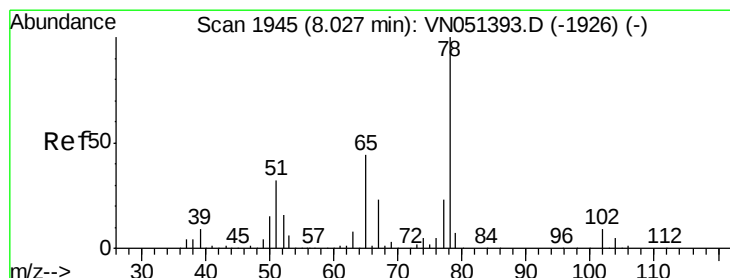
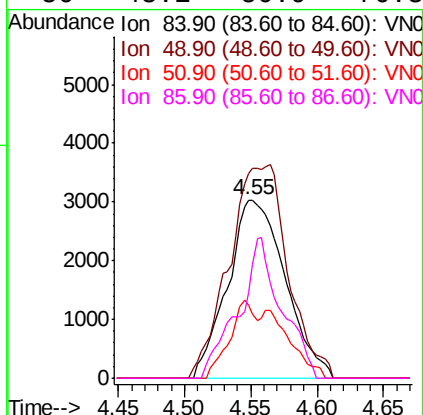
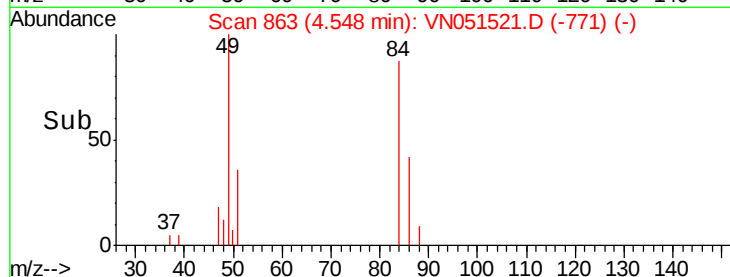
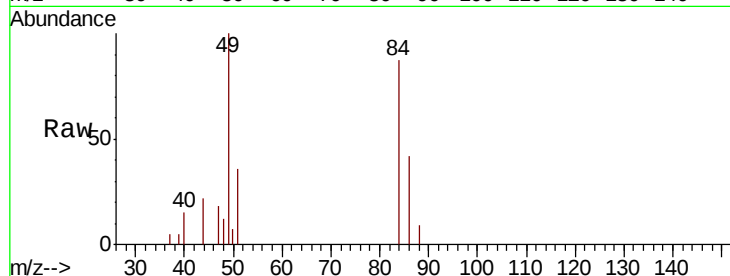




#20  
Methylene Chloride  
Concen: 1.180 ug/l  
RT: 4.55 min Scan# 863  
Delta R.T. -0.00 min  
Lab File: VN051521.D  
Acq: 26 Sep 2018 7:52

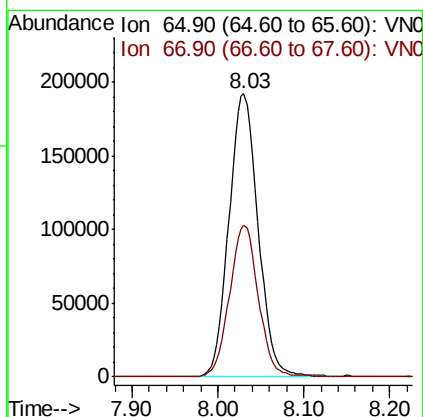
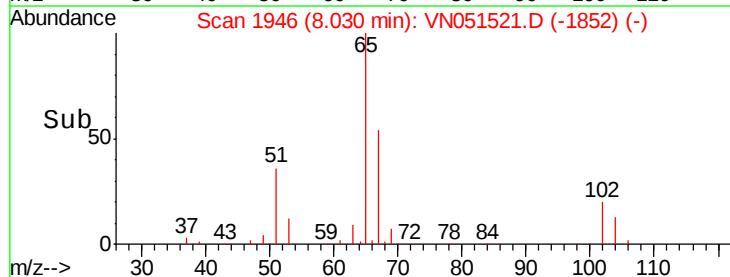
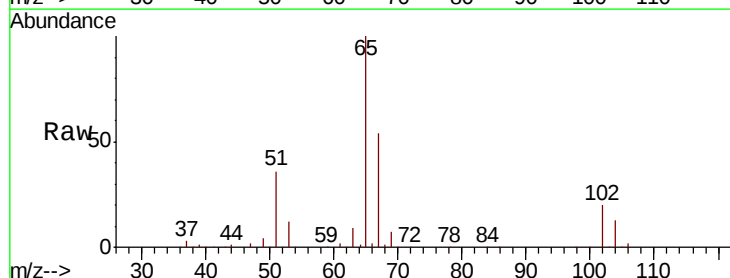
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB113167ZHE#10

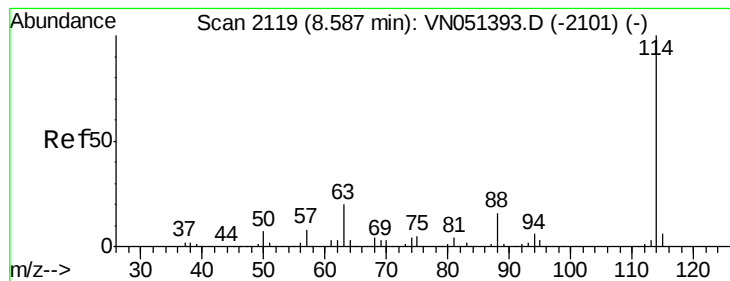
Tgt Ion: 84 Resp: 9189  
Ion Ratio Lower Upper  
84 100  
49 115.0 99.9 149.9  
51 40.8 31.4 47.2  
86 48.1 50.9 76.3#



#33  
1,2-Dichloroethane-d4  
Concen: 57.618 ug/l  
RT: 8.03 min Scan# 1946  
Delta R.T. 0.00 min  
Lab File: VN051521.D  
Acq: 26 Sep 2018 7:52

Tgt Ion: 65 Resp: 453502  
Ion Ratio Lower Upper  
65 100  
67 52.8 0.0 107.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

Instrument :

MSVOA\_N

ClientSampleId :

PB113167ZHE#10

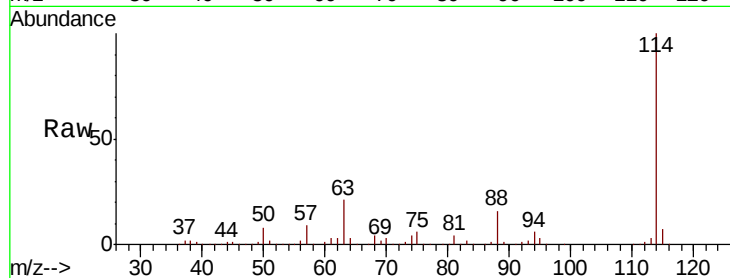
Tgt Ion:114 Resp: 1012198

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.2

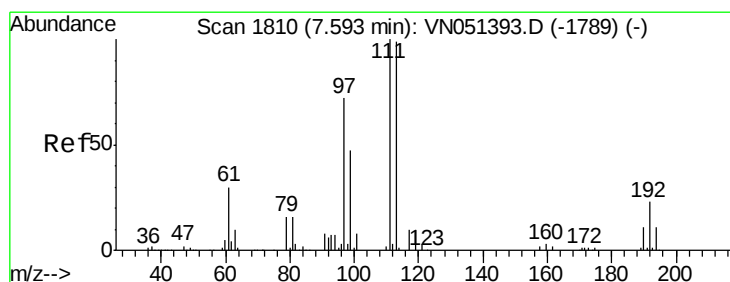
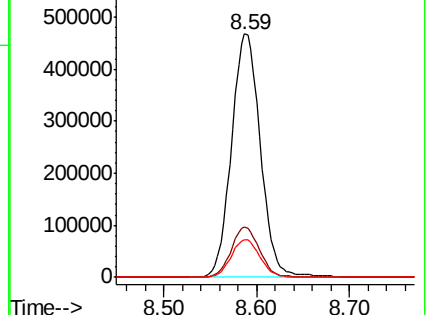
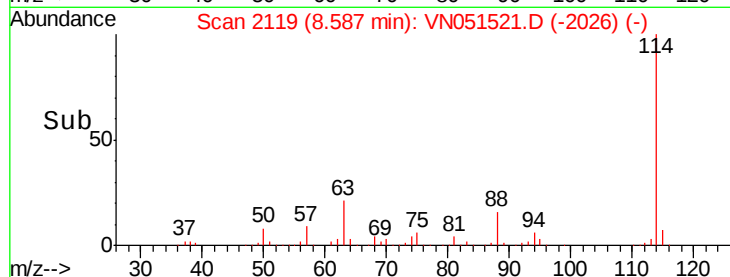
88 15.5 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 47.606 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

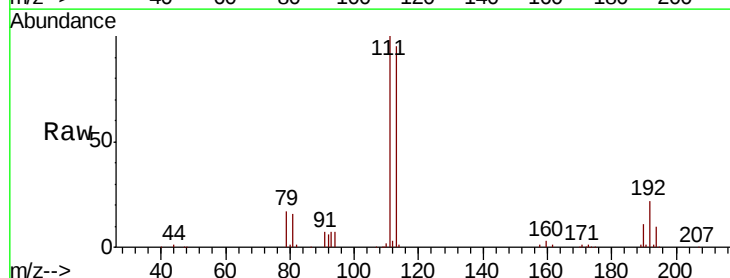
Tgt Ion:113 Resp: 385328

Ion Ratio Lower Upper

113 100

111 103.7 82.6 123.8

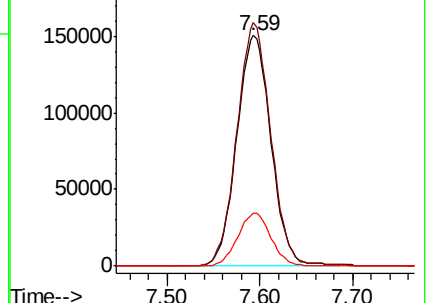
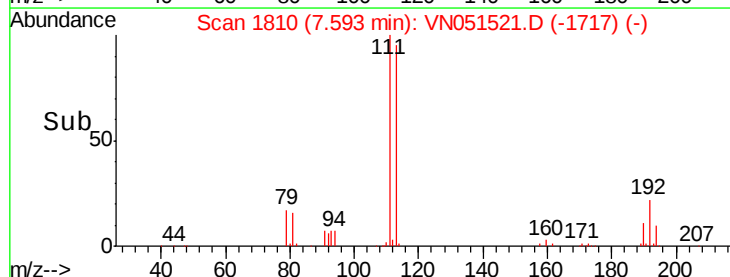
192 22.5 18.0 27.0

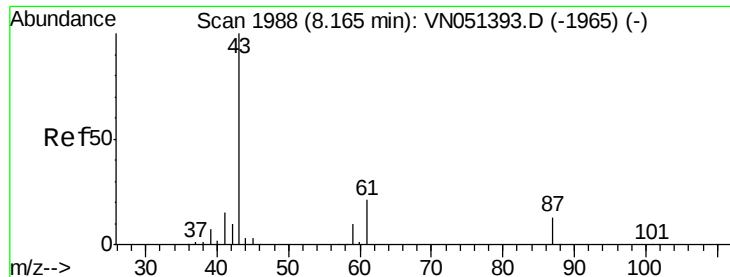


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#43

Isopropyl Acetate

Concen: 26.421 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

Instrument :

MSVOA\_N

ClientSampleId :

PB113167ZHE#10

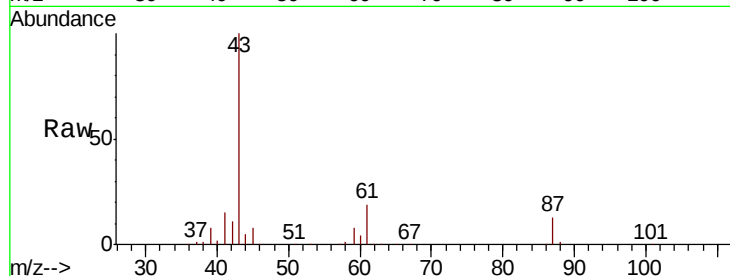
Tgt Ion: 43 Resp: 321981

Ion Ratio Lower Upper

43 100

61 16.7 16.8 25.2#

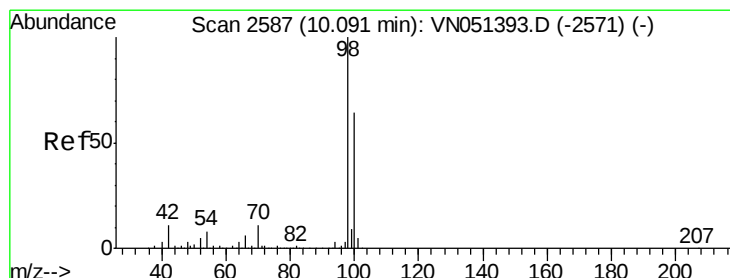
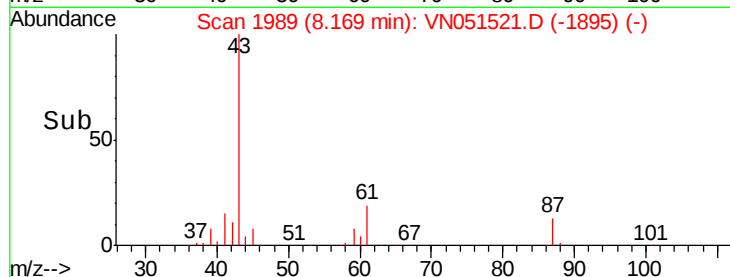
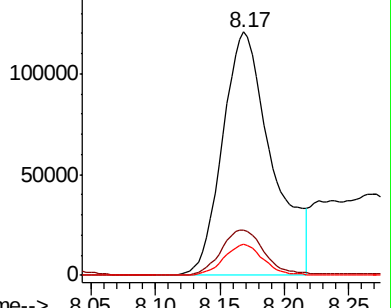
87 10.3 10.7 16.1#



Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-1965) (-)

Ion 61.00 (60.70 to 61.70): VN051393.D (-1965) (-)

Ion 87.00 (86.70 to 87.70): VN051393.D (-1965) (-)



#50

Toluene-d8

Concen: 46.269 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051521.D

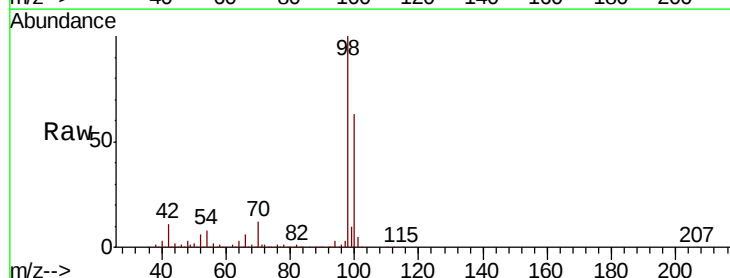
Acq: 26 Sep 2018 7:52

Tgt Ion: 98 Resp: 1410248

Ion Ratio Lower Upper

98 100

100 62.8 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN051393.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN051393.D (-2571) (-)

Ion 115.00 (114.70 to 115.70): VN051393.D (-2571) (-)

Ion 207.00 (206.70 to 207.70): VN051393.D (-2571) (-)

Ion 229.00 (228.70 to 229.70): VN051393.D (-2571) (-)

Ion 255.00 (254.70 to 255.70): VN051393.D (-2571) (-)

Ion 281.00 (280.70 to 281.70): VN051393.D (-2571) (-)

Ion 307.00 (306.70 to 307.70): VN051393.D (-2571) (-)

Ion 333.00 (332.70 to 333.70): VN051393.D (-2571) (-)

Ion 359.00 (358.70 to 359.70): VN051393.D (-2571) (-)

Ion 385.00 (384.70 to 385.70): VN051393.D (-2571) (-)

Ion 411.00 (410.70 to 411.70): VN051393.D (-2571) (-)

Ion 437.00 (436.70 to 437.70): VN051393.D (-2571) (-)

Ion 463.00 (462.70 to 463.70): VN051393.D (-2571) (-)

Ion 489.00 (488.70 to 489.70): VN051393.D (-2571) (-)

Ion 515.00 (514.70 to 515.70): VN051393.D (-2571) (-)

Ion 541.00 (540.70 to 541.70): VN051393.D (-2571) (-)

Ion 567.00 (566.70 to 567.70): VN051393.D (-2571) (-)

Ion 593.00 (592.70 to 593.70): VN051393.D (-2571) (-)

Ion 619.00 (618.70 to 619.70): VN051393.D (-2571) (-)

Ion 645.00 (644.70 to 645.70): VN051393.D (-2571) (-)

Ion 671.00 (670.70 to 671.70): VN051393.D (-2571) (-)

Ion 697.00 (696.70 to 697.70): VN051393.D (-2571) (-)

Ion 723.00 (722.70 to 723.70): VN051393.D (-2571) (-)

Ion 749.00 (748.70 to 749.70): VN051393.D (-2571) (-)

Ion 775.00 (774.70 to 775.70): VN051393.D (-2571) (-)

Ion 801.00 (800.70 to 801.70): VN051393.D (-2571) (-)

Ion 827.00 (826.70 to 827.70): VN051393.D (-2571) (-)

Ion 853.00 (852.70 to 853.70): VN051393.D (-2571) (-)

Ion 879.00 (878.70 to 879.70): VN051393.D (-2571) (-)

Ion 905.00 (904.70 to 905.70): VN051393.D (-2571) (-)

Ion 931.00 (930.70 to 931.70): VN051393.D (-2571) (-)

Ion 957.00 (956.70 to 957.70): VN051393.D (-2571) (-)

Ion 983.00 (982.70 to 983.70): VN051393.D (-2571) (-)

Ion 1009.00 (1008.70 to 1009.70): VN051393.D (-2571) (-)

Ion 1035.00 (1034.70 to 1035.70): VN051393.D (-2571) (-)

Ion 1061.00 (1060.70 to 1061.70): VN051393.D (-2571) (-)

Ion 1087.00 (1086.70 to 1087.70): VN051393.D (-2571) (-)

Ion 1113.00 (1112.70 to 1113.70): VN051393.D (-2571) (-)

Ion 1139.00 (1138.70 to 1139.70): VN051393.D (-2571) (-)

Ion 1165.00 (1164.70 to 1165.70): VN051393.D (-2571) (-)

Ion 1191.00 (1190.70 to 1191.70): VN051393.D (-2571) (-)

Ion 1217.00 (1216.70 to 1217.70): VN051393.D (-2571) (-)

Ion 1243.00 (1242.70 to 1243.70): VN051393.D (-2571) (-)

Ion 1269.00 (1268.70 to 1269.70): VN051393.D (-2571) (-)

Ion 1295.00 (1294.70 to 1295.70): VN051393.D (-2571) (-)

Ion 1321.00 (1320.70 to 1321.70): VN051393.D (-2571) (-)

Ion 1347.00 (1346.70 to 1347.70): VN051393.D (-2571) (-)

Ion 1373.00 (1372.70 to 1373.70): VN051393.D (-2571) (-)

Ion 1399.00 (1398.70 to 1399.70): VN051393.D (-2571) (-)

Ion 1425.00 (1424.70 to 1425.70): VN051393.D (-2571) (-)

Ion 1451.00 (1450.70 to 1451.70): VN051393.D (-2571) (-)

Ion 1477.00 (1476.70 to 1477.70): VN051393.D (-2571) (-)

Ion 1503.00 (1502.70 to 1503.70): VN051393.D (-2571) (-)

Ion 1529.00 (1528.70 to 1529.70): VN051393.D (-2571) (-)

Ion 1555.00 (1554.70 to 1555.70): VN051393.D (-2571) (-)

Ion 1581.00 (1580.70 to 1581.70): VN051393.D (-2571) (-)

Ion 1607.00 (1606.70 to 1607.70): VN051393.D (-2571) (-)

Ion 1633.00 (1632.70 to 1633.70): VN051393.D (-2571) (-)

Ion 1659.00 (1658.70 to 1659.70): VN051393.D (-2571) (-)

Ion 1685.00 (1684.70 to 1685.70): VN051393.D (-2571) (-)

Ion 1711.00 (1710.70 to 1711.70): VN051393.D (-2571) (-)

Ion 1737.00 (1736.70 to 1737.70): VN051393.D (-2571) (-)

Ion 1763.00 (1762.70 to 1763.70): VN051393.D (-2571) (-)

Ion 1789.00 (1788.70 to 1789.70): VN051393.D (-2571) (-)

Ion 1815.00 (1814.70 to 1815.70): VN051393.D (-2571) (-)

Ion 1841.00 (1840.70 to 1841.70): VN051393.D (-2571) (-)

Ion 1867.00 (1866.70 to 1867.70): VN051393.D (-2571) (-)

Ion 1893.00 (1892.70 to 1893.70): VN051393.D (-2571) (-)

Ion 1919.00 (1918.70 to 1919.70): VN051393.D (-2571) (-)

Ion 1945.00 (1944.70 to 1945.70): VN051393.D (-2571) (-)

Ion 1971.00 (1970.70 to 1971.70): VN051393.D (-2571) (-)

Ion 1997.00 (1996.70 to 1997.70): VN051393.D (-2571) (-)

Ion 2023.00 (2022.70 to 2023.70): VN051393.D (-2571) (-)

Ion 2049.00 (2048.70 to 2049.70): VN051393.D (-2571) (-)

Ion 2075.00 (2074.70 to 2075.70): VN051393.D (-2571) (-)

Ion 2101.00 (2100.70 to 2101.70): VN051393.D (-2571) (-)

Ion 2127.00 (2126.70 to 2127.70): VN051393.D (-2571) (-)

Ion 2153.00 (2152.70 to 2153.70): VN051393.D (-2571) (-)

Ion 2179.00 (2178.70 to 2179.70): VN051393.D (-2571) (-)

Ion 2205.00 (2204.70 to 2205.70): VN051393.D (-2571) (-)

Ion 2231.00 (2230.70 to 2231.70): VN051393.D (-2571) (-)

Ion 2257.00 (2256.70 to 2257.70): VN051393.D (-2571) (-)

Ion 2283.00 (2282.70 to 2283.70): VN051393.D (-2571) (-)

Ion 2309.00 (2308.70 to 2309.70): VN051393.D (-2571) (-)

Ion 2335.00 (2334.70 to 2335.70): VN051393.D (-2571) (-)

Ion 2361.00 (2360.70 to 2361.70): VN051393.D (-2571) (-)

Ion 2387.00 (2386.70 to 2387.70): VN051393.D (-2571) (-)

Ion 2413.00 (2412.70 to 2413.70): VN051393.D (-2571) (-)

Ion 2439.00 (2438.70 to 2439.70): VN051393.D (-2571) (-)

Ion 2465.00 (2464.70 to 2465.70): VN051393.D (-2571) (-)

Ion 2491.00 (2490.70 to 2491.70): VN051393.D (-2571) (-)

Ion 2517.00 (2516.70 to 2517.70): VN051393.D (-2571) (-)

Ion 2543.00 (2542.70 to 2543.70): VN051393.D (-2571) (-)

Ion 2569.00 (2568.70 to 2569.70): VN051393.D (-2571) (-)

Ion 2595.00 (2594.70 to 2595.70): VN051393.D (-2571) (-)

Ion 2621.00 (2620.70 to 2621.70): VN051393.D (-2571) (-)

Ion 2647.00 (2646.70 to 2647.70): VN051393.D (-2571) (-)

Ion 2673.00 (2672.70 to 2673.70): VN051393.D (-2571) (-)

Ion 2699.00 (2698.70 to 2699.70): VN051393.D (-2571) (-)

Ion 2725.00 (2724.70 to 2725.70): VN051393.D (-2571) (-)

Ion 2751.00 (2750.70 to 2751.70): VN051393.D (-2571) (-)

Ion 2777.00 (2776.70 to 2777.70): VN051393.D (-2571) (-)

Ion 2803.00 (2802.70 to 2803.70): VN051393.D (-2571) (-)

Ion 2829.00 (2828.70 to 2829.70): VN051393.D (-2571) (-)

Ion 2855.00 (2854.70 to 2855.70): VN051393.D (-2571) (-)

Ion 2881.00 (2880.70 to 2881.70): VN051393.D (-2571) (-)

Ion 2907.00 (2906.70 to 2907.70): VN051393.D (-2571) (-)

Ion 2933.00 (2932.70 to 2933.70): VN051393.D (-2571) (-)

Ion 2959.00 (2958.70 to 2959.70): VN051393.D (-2571) (-)

Ion 2985.00 (2984.70 to 2985.70): VN051393.D (-2571) (-)

Ion 3011.00 (3010.70 to 3011.70): VN051393.D (-2571) (-)

Ion 3037.00 (3036.70 to 3037.70): VN051393.D (-2571) (-)

Ion 3063.00 (3062.70 to 3063.70): VN051393.D (-2571) (-)

Ion 3089.00 (3088.70 to 3089.70): VN051393.D (-2571) (-)

Ion 3115.00 (3114.70 to 3115.70): VN051393.D (-2571) (-)

Ion 3141.00 (3140.70 to 3141.70): VN051393.D (-2571) (-)

Ion 3167.00 (3166.70 to 3167.70): VN051393.D (-2571) (-)

Ion 3193.00 (3192.70 to 3193.70): VN051393.D (-2571) (-)

Ion 3219.00 (3218.70 to 3219.70): VN051393.D (-2571) (-)

Ion 3245.00 (3244.70 to 3245.70): VN051393.D (-2571) (-)

Ion 3271.00 (3270.70 to 3271.70): VN051393.D (-2571) (-)

Ion 3297.00 (3296.70 to 3297.70): VN051393.D (-2571) (-)

Ion 3323.00 (3322.70 to 3323.70): VN051393.D (-2571) (-)

Ion 3349.00 (3348.70 to 3349.70): VN051393.D (-2571) (-)

Ion 3375.00 (3374.70 to 3375.70): VN051393.D (-2571) (-)

Ion 3401.00 (3400.70 to 3401.70): VN051393.D (-2571) (-)

Ion 3427.00 (3426.70 to 3427.70): VN051393.D (-2571) (-)

Ion 3453.00 (3452.70 to 3453.70): VN051393



#62

4-Bromofluorobenzene

Concen: 39.010 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

Instrument :

MSVOA\_N

ClientSampleId :

PB113167ZHE#10

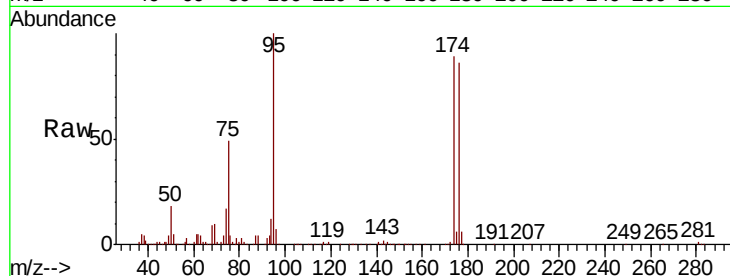
Tgt Ion: 95 Resp: 384643

Ion Ratio Lower Upper

95 100

174 89.6 0.0 181.6

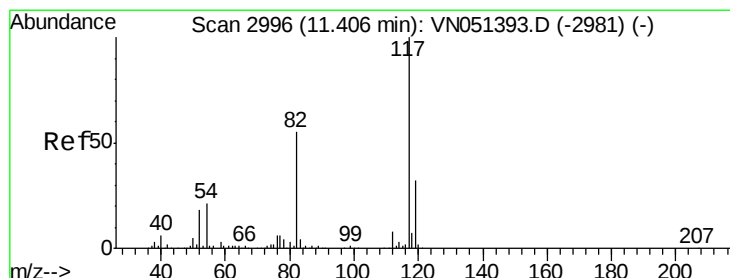
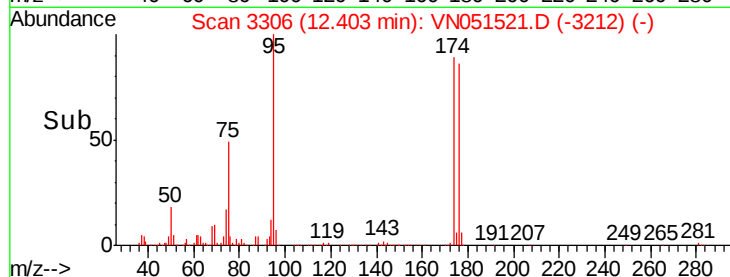
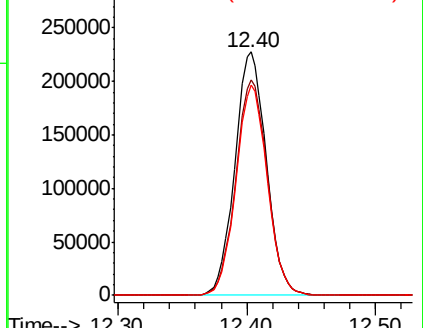
176 86.1 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VN051393.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051393.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051393.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

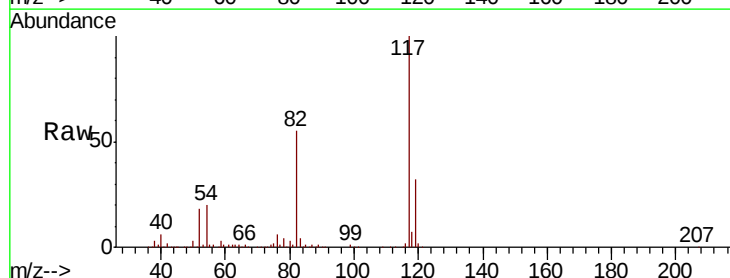
Tgt Ion: 117 Resp: 857861

Ion Ratio Lower Upper

117 100

82 54.6 44.2 66.2

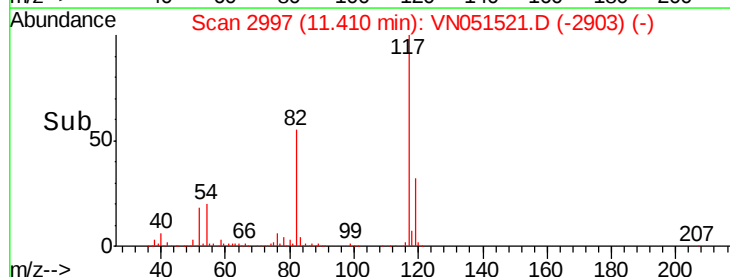
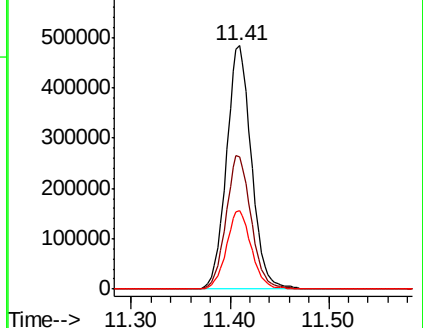
119 32.3 25.9 38.9

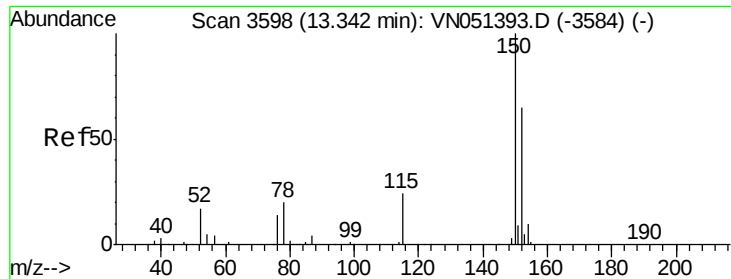


Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051393.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051393.D (-2981) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

Instrument :

MSVOA\_N

ClientSampleId :

PB113167ZHE#10

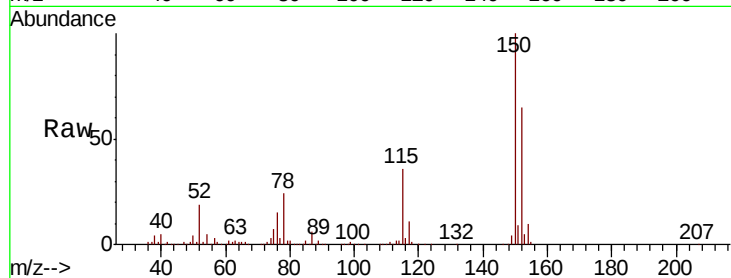
Tgt Ion:152 Resp: 314183

Ion Ratio Lower Upper

152 100

115 56.6 28.3 84.9

150 155.8 0.0 353.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

