

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101520\  
 Data File : VN064137.D  
 Acq On : 15 Oct 2020 12:38  
 Operator : JC/MD  
 Sample : L4403-07  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CAL-TB01-20201014

Quant Time: Oct 16 02:21:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101420W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 15 01:16:44 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 270366   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 518155   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 544753   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 190570   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.98  | 65   | 221112   | 57.42 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 114.84% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 183998   | 51.30 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.60% |          |
| 50) Toluene-d8              | 10.06 | 98   | 674127   | 49.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.64%  |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 228237   | 49.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.14%  |          |

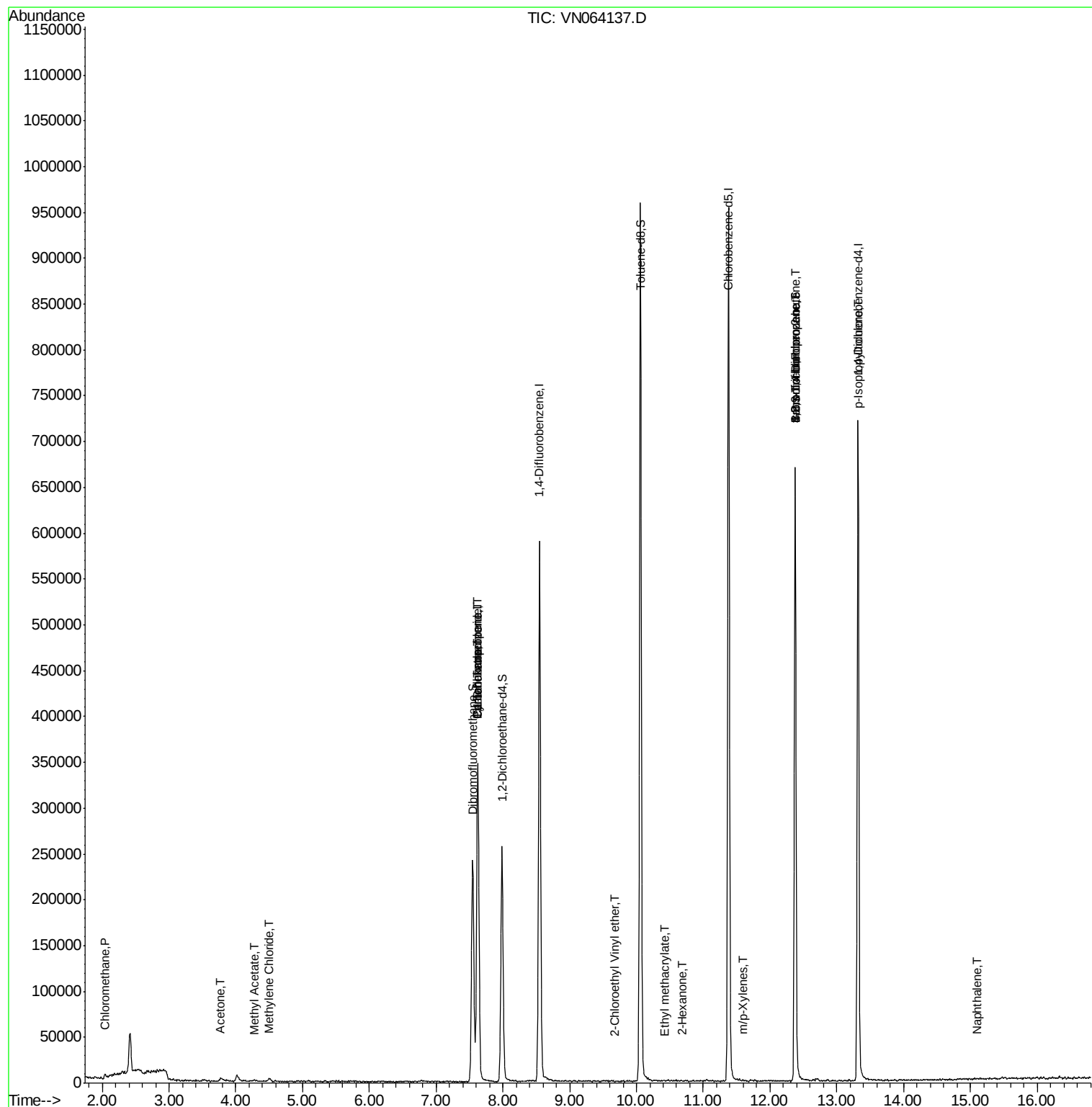
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 2.04  | 50   | 3712     | 1.170  | ug/l   | 91     |
| 16) Acetone                    | 3.78  | 43   | 6476     | 5.670  | ug/l # | 84     |
| 18) Methyl Acetate             | 4.28  | 43   | 952      | 0.332  | ug/l # | 57     |
| 20) Methylene Chloride         | 4.49  | 84   | 959      | 0.271  | ug/l # | 67     |
| 31) Cyclohexane                | 7.62  | 56   | 6520     | 1.532  | ug/l # | 18     |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 23120    | 4.629  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 28400    | 5.288  | ug/l # | 16     |
| 56) Ethyl methacrylate         | 10.42 | 69   | 65       | 2.310  | ug/l # | 1      |
| 58) 2-Chloroethyl Vinyl ether  | 9.69  | 63   | 32       | 12.230 | ug/l # | 48     |
| 59) 2-Hexanone                 | 10.68 | 43   | 213      | 6.899  | ug/l   | 73     |
| 68) m/p-Xylenes                | 11.60 | 106  | 31       | 2.196  | ug/l # | 1      |
| 71) Bromoform                  | 12.37 | 173  | 532      | 2.372  | ug/l # | 30     |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 118577   | 26.522 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 118577   | 81.029 | ug/l # | 12     |
| 86) p-Isopropyltoluene         | 13.31 | 119  | 91       | 0.670  | ug/l # | 1      |
| 95) Naphthalene                | 15.11 | 128  | 92       | 3.806  | ug/l # | 70     |

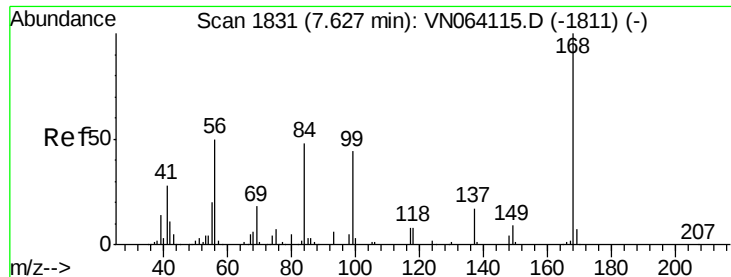
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN101520\  
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Quant Title : SW846 8260  
QLast Update : Thu Oct 15 01:16:44 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064137.D

Acq: 15 Oct 2020 12:38

Instrument :

MSVOA\_N

ClientSampleId :

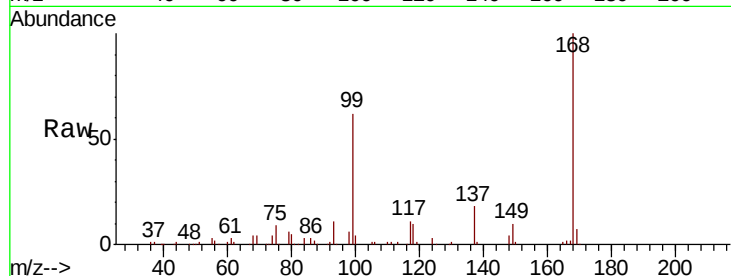
CAL-TB01-20201014

Tot Ion:168 Resp: 270366

Ion Ratio Lower Upper

168 100

99 62.3 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): VN064137.D (-1738) (-)

Ion 98.90 (98.60 to 99.60): VN064137.D (-1738) (-)

7.62

120000

100000

80000

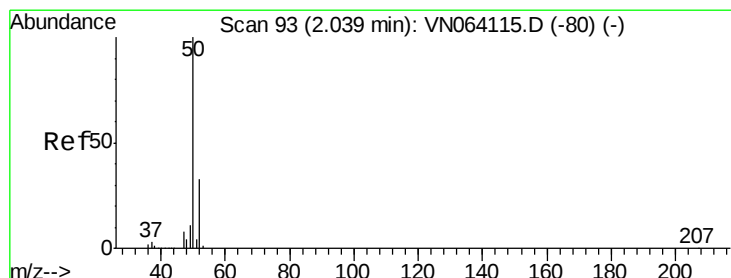
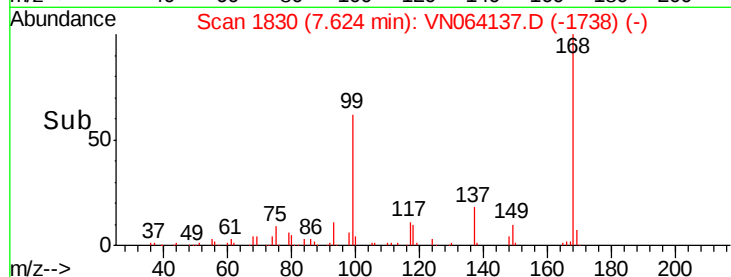
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 1.170 ug/l

RT: 2.04 min Scan# 92

Delta R.T. -0.00 min

Lab File: VN064137.D

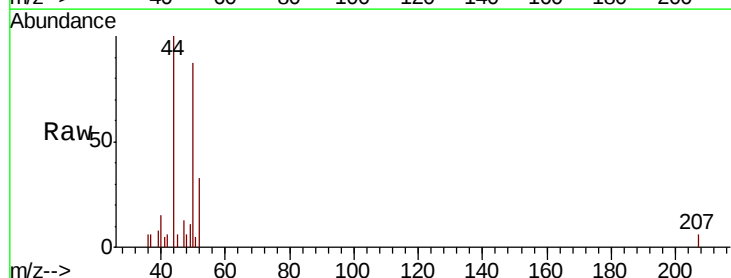
Acq: 15 Oct 2020 12:38

Tgt Ion: 50 Resp: 3712

Ion Ratio Lower Upper

50 100

52 37.5 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VN064137.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN064137.D (-1) (-)

2.04

3000

2500

2000

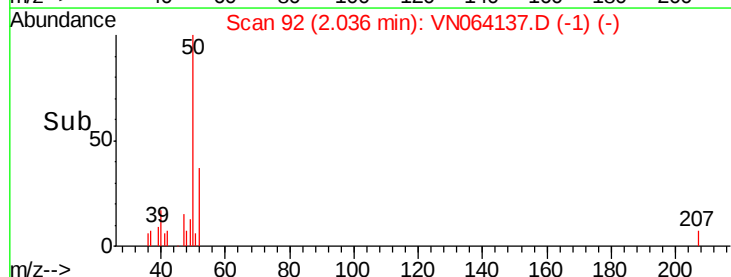
1500

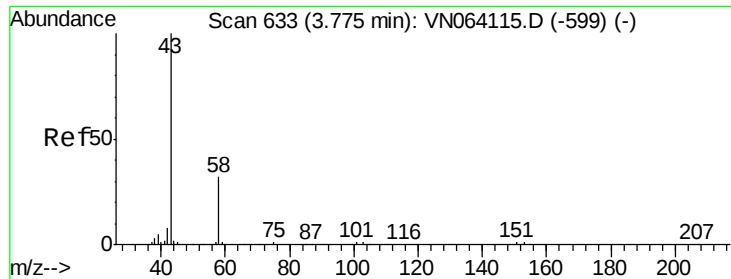
1000

500

0

Time--> 2.00 2.05





#16

Acetone

Concen: 5.670 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064137.D

Acq: 15 Oct 2020 12:38

Instrument :

MSVOA\_N

ClientSampleId :

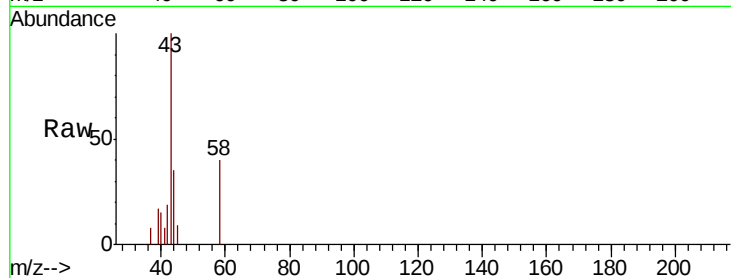
CAL-TB01-20201014

Tot Ion: 43 Resp: 6476

Ion Ratio Lower Upper

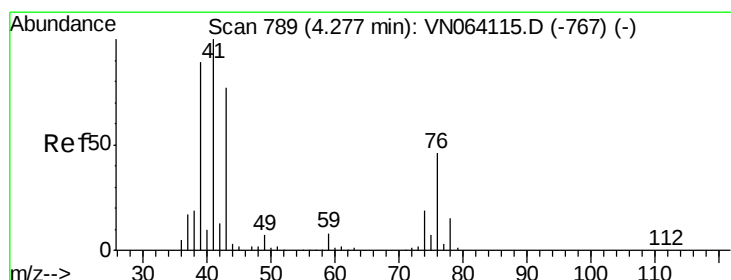
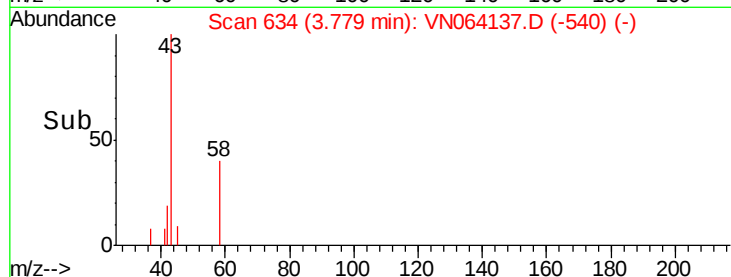
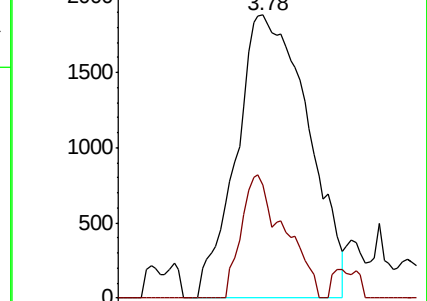
43 100

58 40.1 25.2 37.8#



Abundance Ion 43.00 (42.70 to 43.70): VN064137.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN064137.D (-599) (-)



#18

Methyl Acetate

Concen: 0.332 ug/l

RT: 4.28 min Scan# 789

Delta R.T. 0.00 min

Lab File: VN064137.D

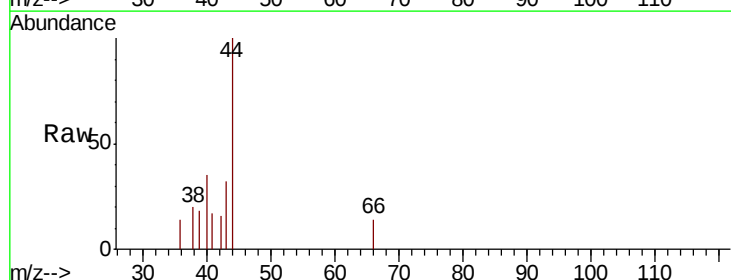
Acq: 15 Oct 2020 12:38

Tgt Ion: 43 Resp: 952

Ion Ratio Lower Upper

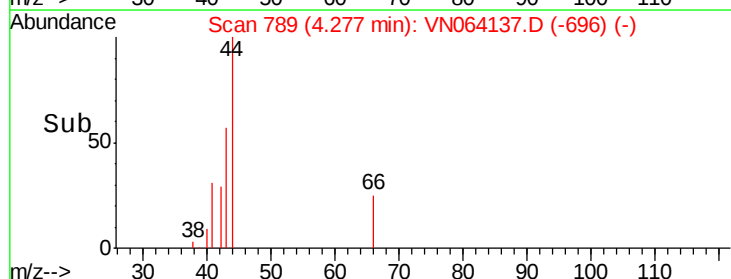
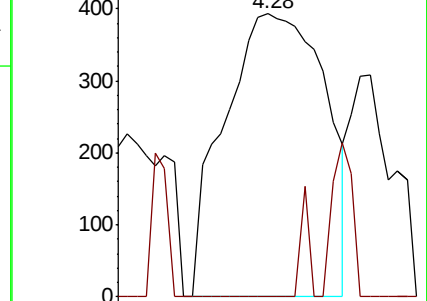
43 100

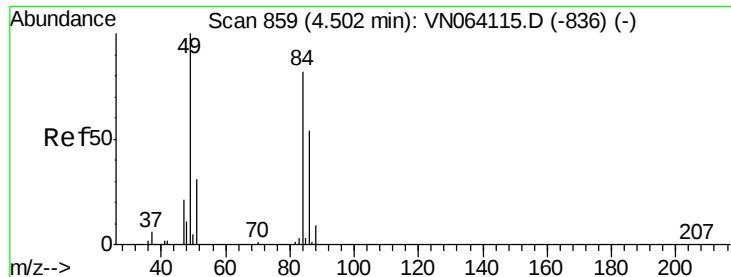
74 3.2 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VN064137.D (-767) (-)

Ion 74.00 (73.70 to 74.70): VN064137.D (-767) (-)

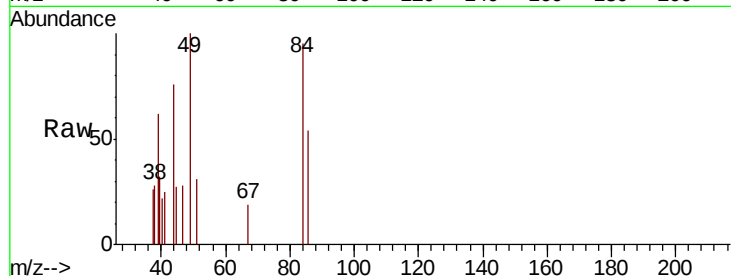




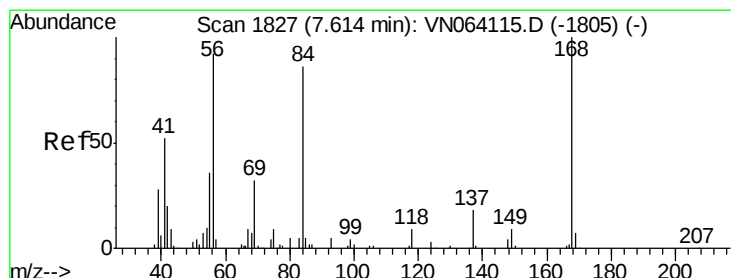
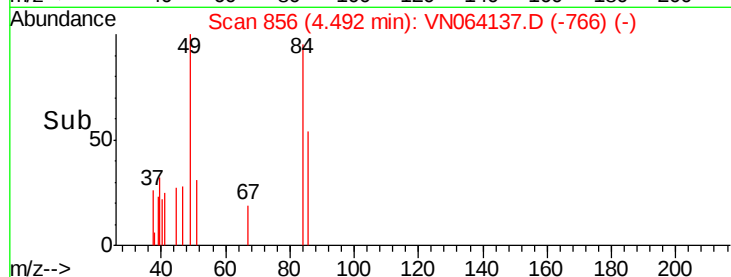
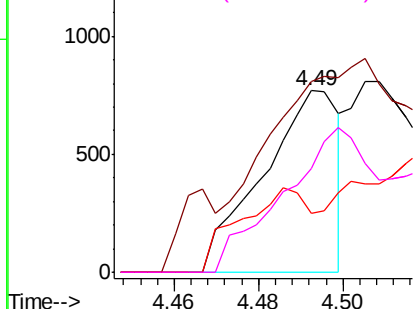
#20  
Methvlene Chloride  
Concen: 0.271 ug/l  
RT: 4.49 min Scan# 856  
Delta R.T. -0.01 min  
Lab File: VN064137.D  
Acq: 15 Oct 2020 12:38

Instrument :  
MSVOA\_N  
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| Tot Ion: | 84    | Resp: | 959    |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 62.6  | 97.4  | 146.0# |
| 51       | 32.7  | 29.7  | 44.5   |
| 86       | 56.9  | 52.5  | 78.7   |

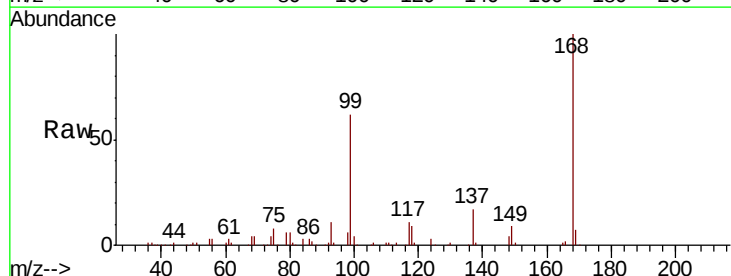


Abundance Ion 83.90 (83.60 to 84.60): VNO  
Ion 48.90 (48.60 to 49.60): VNO  
Ion 50.90 (50.60 to 51.60): VNO  
Ion 85.90 (85.60 to 86.60): VNO

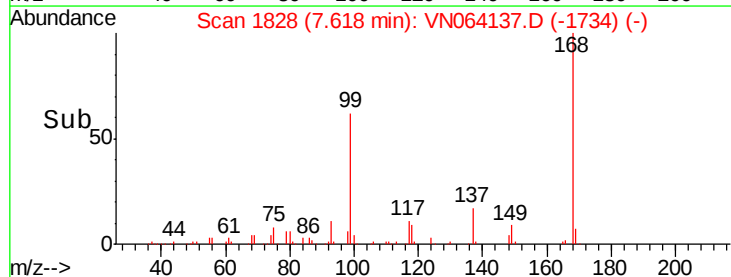
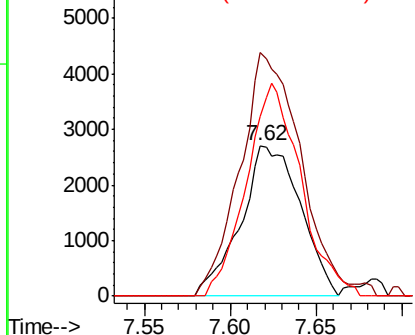


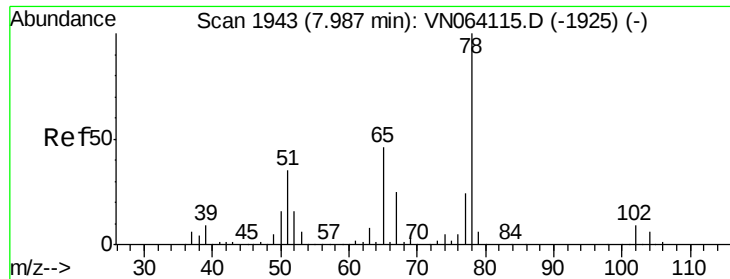
#31  
Cyclohexane  
Concen: 1.532 ug/l  
RT: 7.62 min Scan# 1828  
Delta R.T. 0.00 min  
Lab File: VN064137.D  
Acq: 15 Oct 2020 12:38

| Tgt Ion: | 56    | Resp: | 6520   |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 162.0 | 27.8  | 41.6#  |
| 84       | 119.3 | 73.2  | 109.8# |



Abundance Ion 56.00 (55.70 to 56.70): VNO  
Ion 69.00 (68.70 to 69.70): VNO  
Ion 84.00 (83.70 to 84.70): VNO

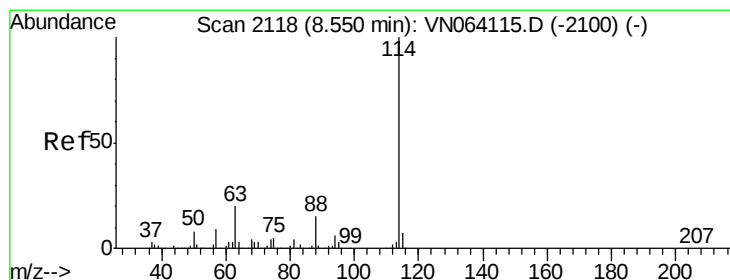
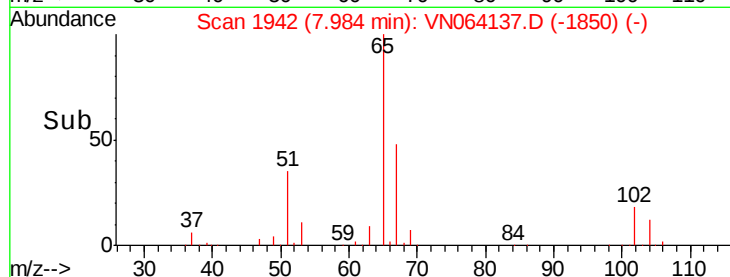
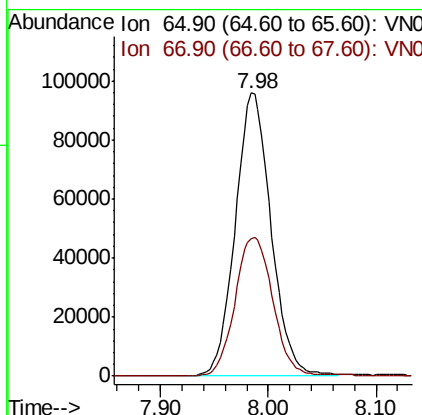
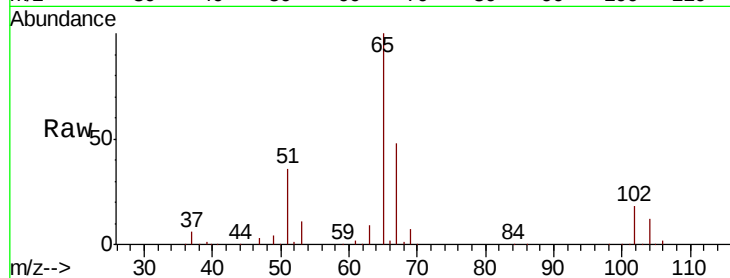




#33  
 1,2-Dichloroethane-d4  
 Concen: 57.423 ug/l  
 RT: 7.98 min Scan# 1942  
 Delta R.T. -0.00 min  
 Lab File: VN064137.D  
 Acq: 15 Oct 2020 12:38

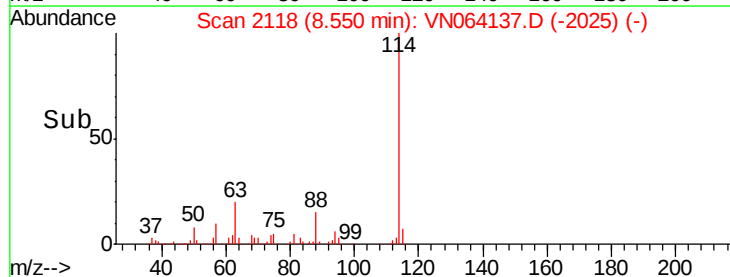
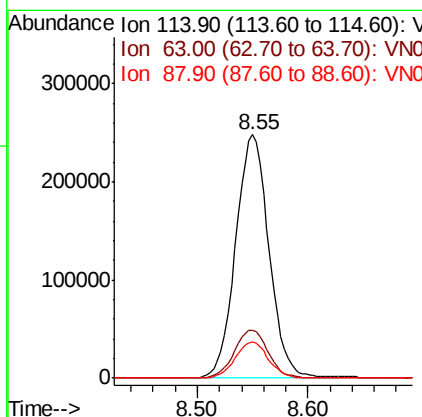
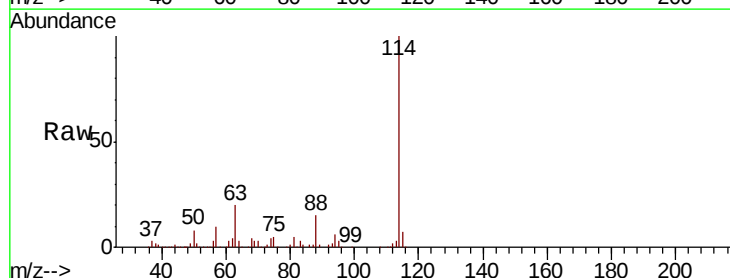
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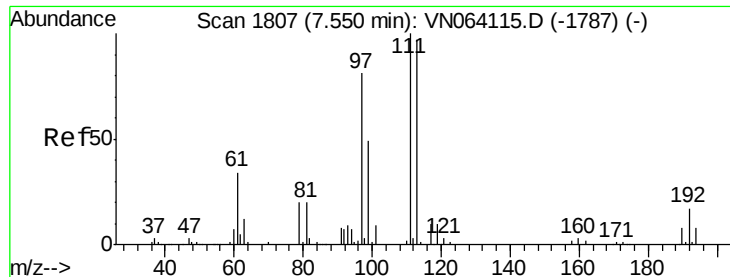
Tot Ion: 65 Resp: 221112  
 Ion Ratio Lower Upper  
 65 100  
 67 51.7 0.0 105.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2118  
 Delta R.T. 0.00 min  
 Lab File: VN064137.D  
 Acq: 15 Oct 2020 12:38

Tgt Ion: 114 Resp: 518155  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 41.0  
 88 14.8 0.0 29.2

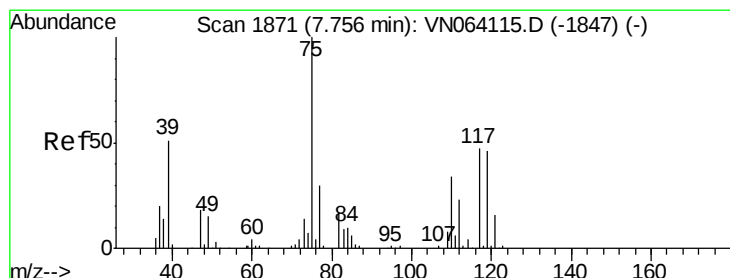
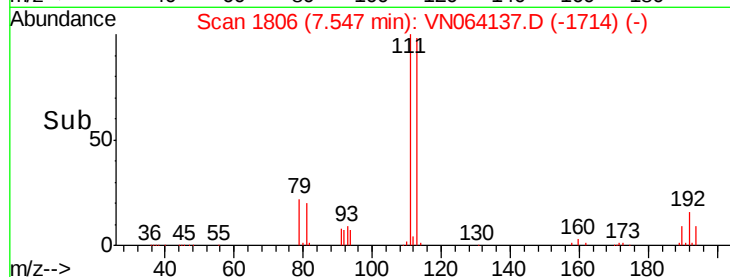
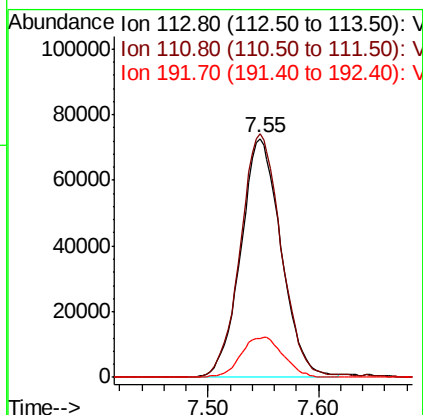
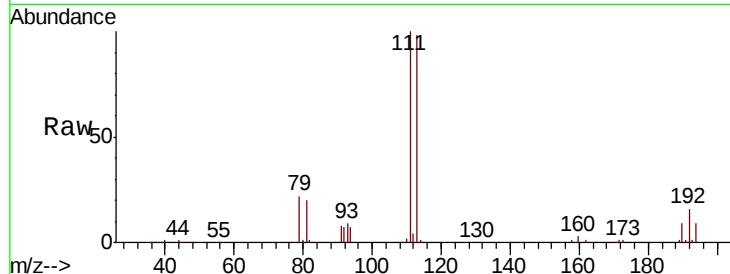




#35  
 Dibromofluoromethane  
 Concen: 51.304 ug/l  
 RT: 7.55 min Scan# 1806  
 Delta R.T. -0.00 min  
 Lab File: VN064137.D  
 Acq: 15 Oct 2020 12:38

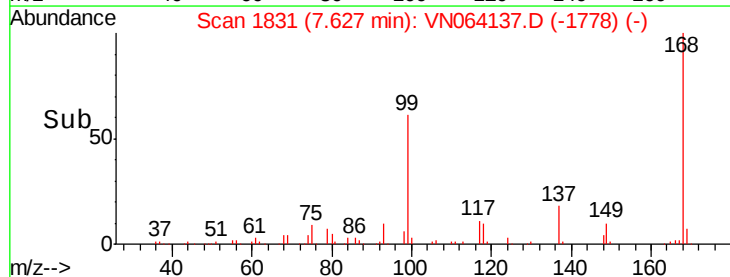
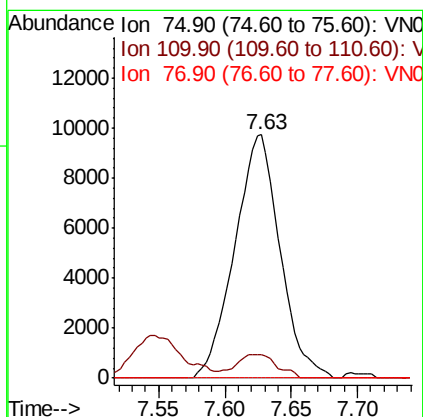
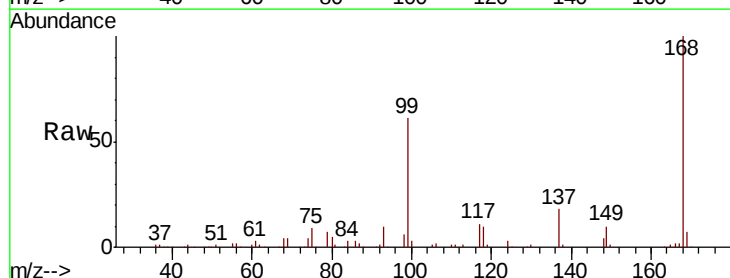
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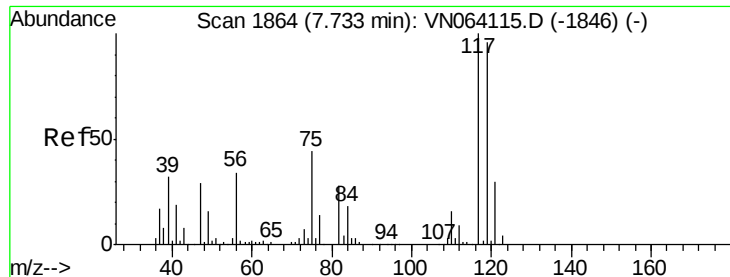
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.3 | 81.9  | 122.9 |
| 192     | 17.6  | 14.3  | 21.5  |



#36  
 1,1-Dichloropropene  
 Concen: 4.629 ug/l  
 RT: 7.63 min Scan# 1831  
 Delta R.T. -0.13 min  
 Lab File: VN064137.D  
 Acq: 15 Oct 2020 12:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.6   | 17.8  | 53.3# |
| 77      | 0.0   | 24.9  | 37.3# |

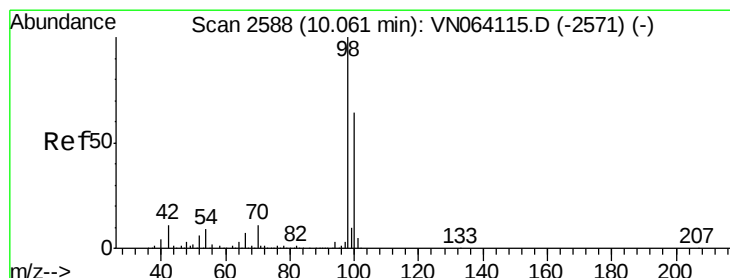
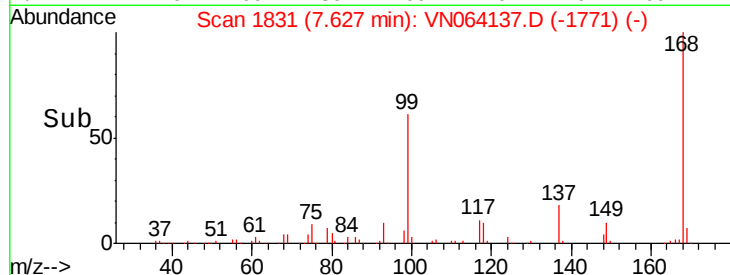
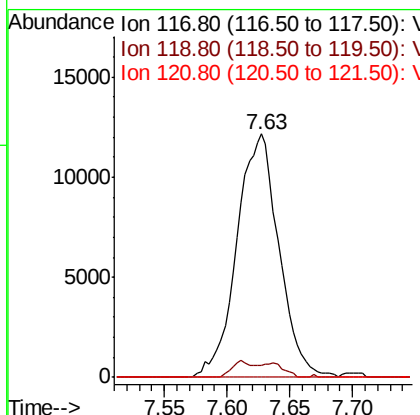
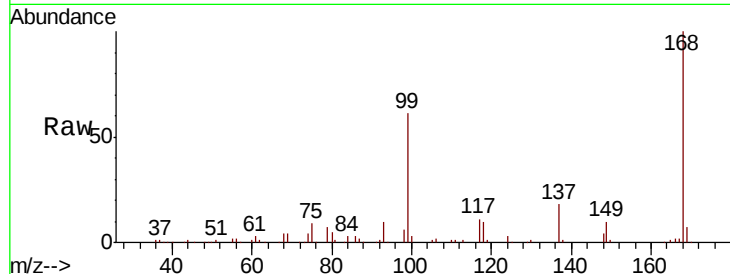




#38  
 Carbon Tetrachloride  
 Concen: 5.288 ug/l  
 RT: 7.63 min Scan# 1831  
 Delta R.T. -0.11 min  
 Lab File: VN064137.D  
 Acq: 15 Oct 2020 12:38

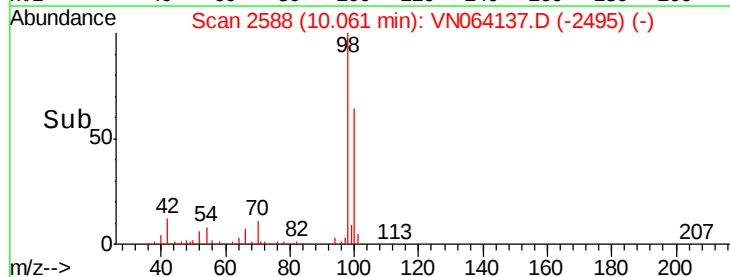
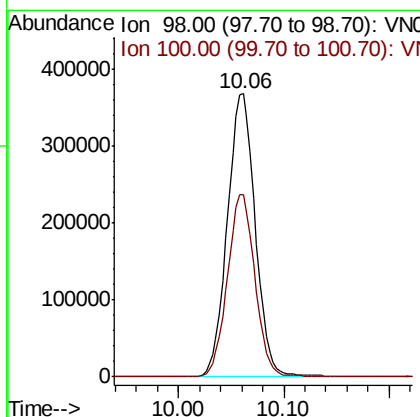
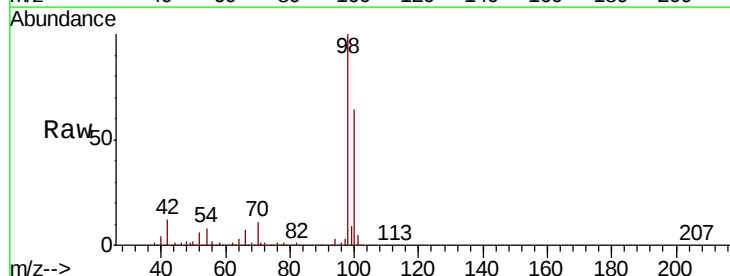
Instrument :  
 MSVOA\_N  
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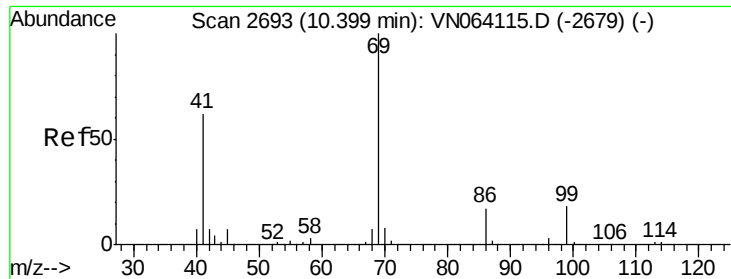
Tot Ion:117 Resp: 28400  
 Ion Ratio Lower Upper  
 117 100  
 119 5.1 77.0 115.4#  
 121 0.0 24.2 36.4#



#50  
 Toluene-d8  
 Concen: 49.817 ug/l  
 RT: 10.06 min Scan# 2588  
 Delta R.T. 0.00 min  
 Lab File: VN064137.D  
 Acq: 15 Oct 2020 12:38

Tgt Ion: 98 Resp: 674127  
 Ion Ratio Lower Upper  
 98 100  
 100 63.7 50.8 76.2





#56

Ethyl methacrylate

Concen: 2.310 ug/l

RT: 10.42 min Scan# 2699

Delta R.T. 0.02 min

Lab File: VN064137.D

Acq: 15 Oct 2020 12:38

Instrument :

MSVOA\_N

ClientSampleId :

CAL-TB01-20201014

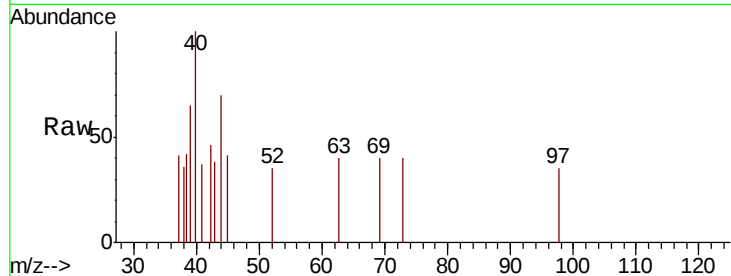
Tot Ion: 69 Resp: 65

Ion Ratio Lower Upper

69 100

41 200.0 49.3 73.9#

39 87.7 32.7 49.1#

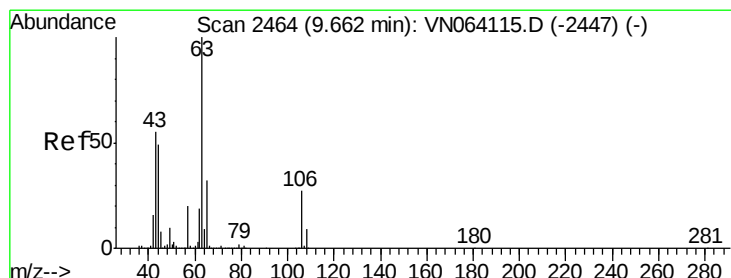
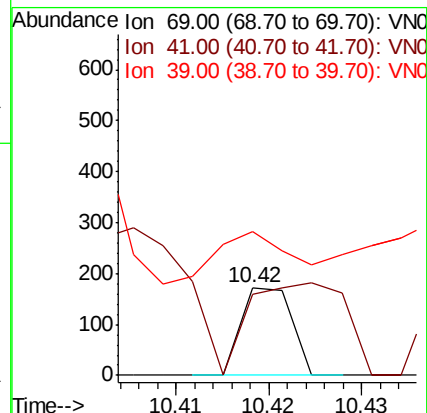
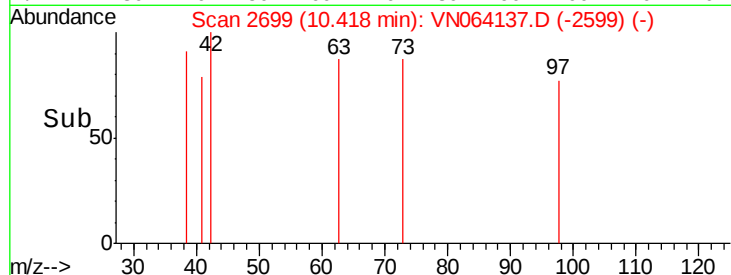


Abundance Ion 69.00 (68.70 to 69.70): VN064137.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN064137.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN064137.D (-2679) (-)

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 12.230 ug/l

RT: 9.69 min Scan# 2473

Delta R.T. 0.03 min

Lab File: VN064137.D

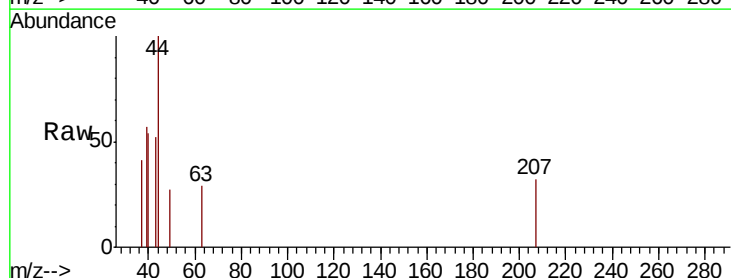
Acq: 15 Oct 2020 12:38

Tgt Ion: 63 Resp: 32

Ion Ratio Lower Upper

63 100

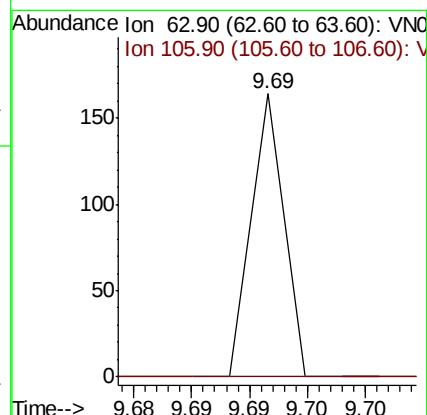
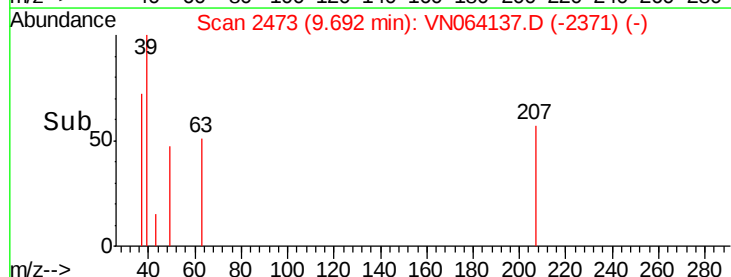
106 0.0 21.8 32.6#

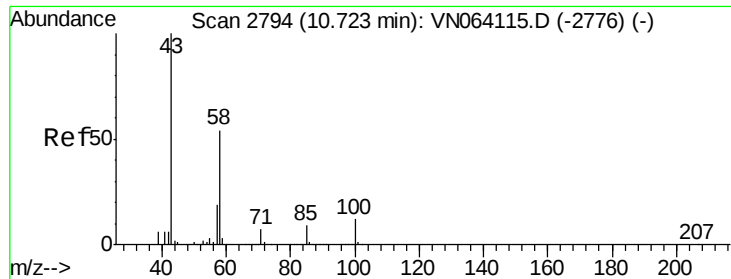


Abundance Ion 62.90 (62.60 to 63.60): VN064137.D (-2371) (-)

Ion 105.90 (105.60 to 106.60): VN064137.D (-2371) (-)

Time-->

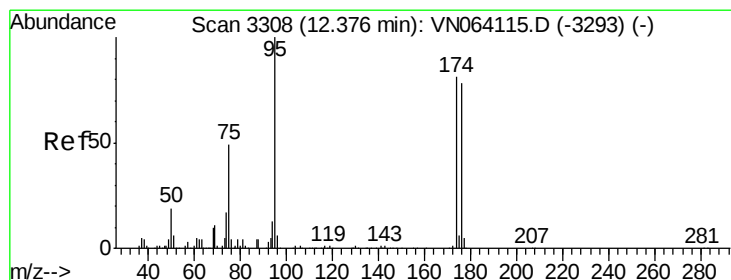
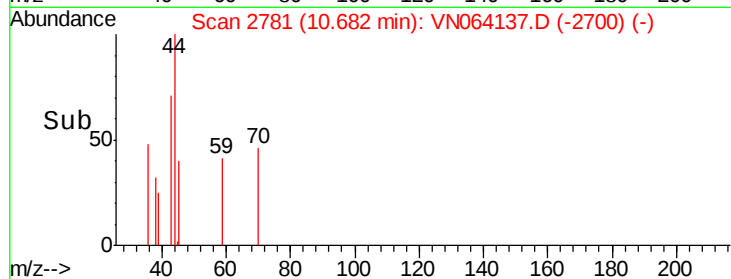
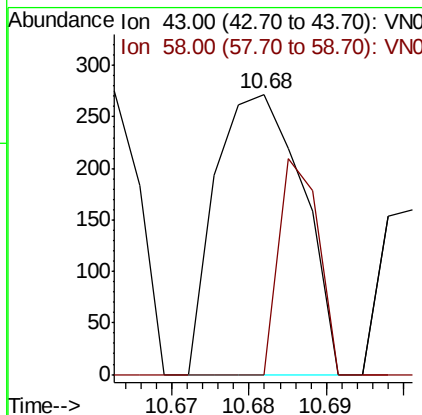
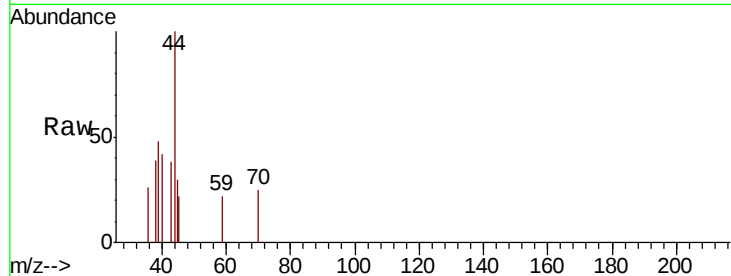




#59  
2-Hexanone  
Concen: 6.899 ug/l  
RT: 10.68 min Scan# 2781  
Delta R.T. -0.04 min  
Lab File: VN064137.D  
Acq: 15 Oct 2020 12:38

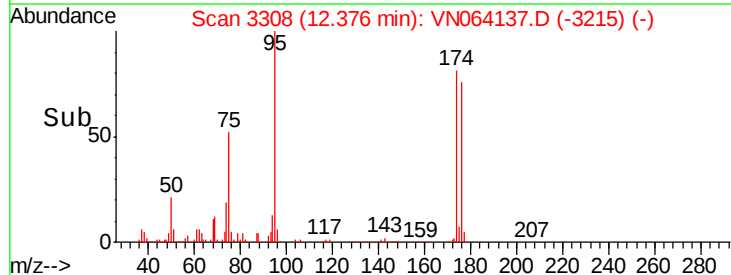
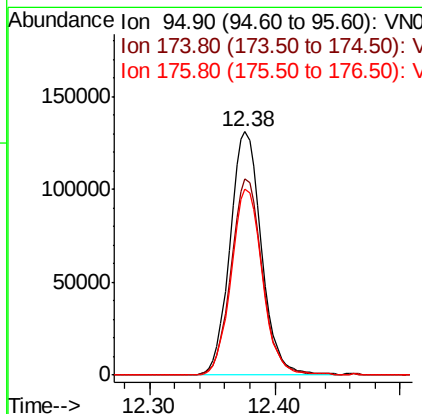
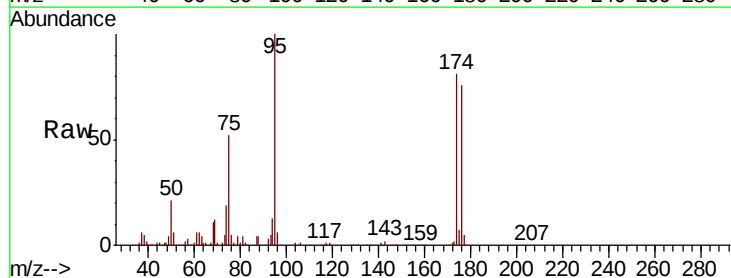
Instrument :  
MSVOA\_N  
ClientSampleId :  
CAL-TB01-20201014

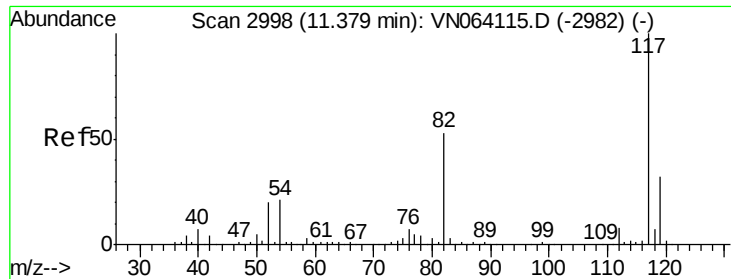
Tot Ion: 43 Resp: 213  
Ion Ratio Lower Upper  
43 100  
58 35.2 27.2 81.6



#62  
4-Bromofluorobenzene  
Concen: 49.069 ug/l  
RT: 12.38 min Scan# 3308  
Delta R.T. 0.00 min  
Lab File: VN064137.D  
Acq: 15 Oct 2020 12:38

Tgt Ion: 95 Resp: 228237  
Ion Ratio Lower Upper  
95 100  
174 80.2 0.0 164.8  
176 76.4 0.0 157.8

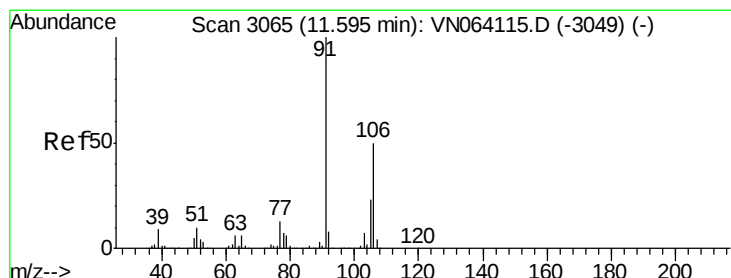
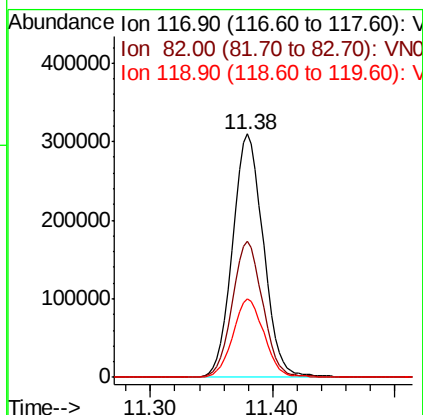
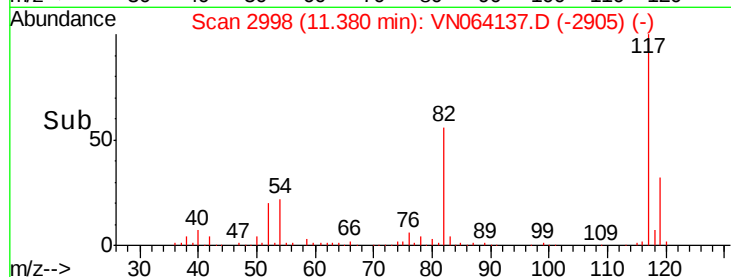
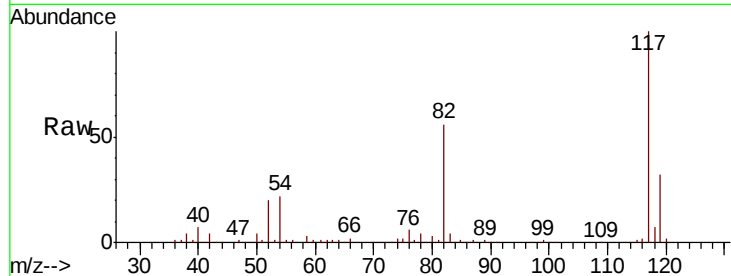




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. 0.00 min  
Lab File: VN064137.D  
Acq: 15 Oct 2020 12:38

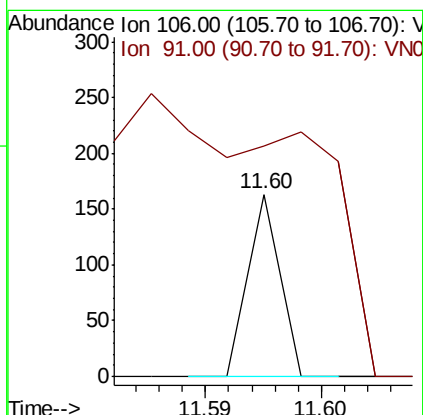
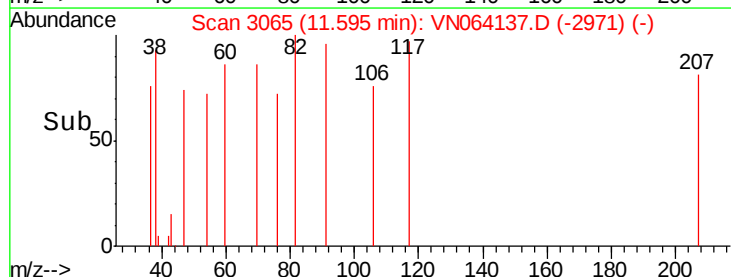
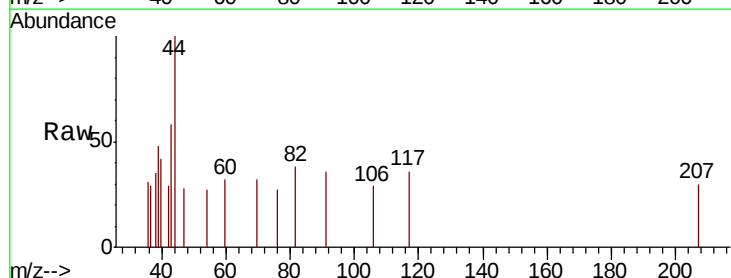
Instrument :  
MSVOA\_N  
ClientSampleId :  
CAL-TB01-20201014

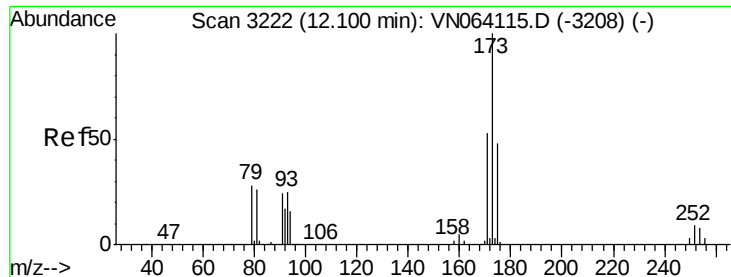
Tot Ion:117 Resp: 544753  
Ion Ratio Lower Upper  
117 100  
82 55.8 42.6 63.8  
119 32.1 25.5 38.3



#68  
m/p-Xylenes  
Concen: 2.196 ug/l  
RT: 11.60 min Scan# 3065  
Delta R.T. 0.00 min  
Lab File: VN064137.D  
Acq: 15 Oct 2020 12:38

Tgt Ion:106 Resp: 31  
Ion Ratio Lower Upper  
106 100  
91 548.4 162.1 243.1#





#71

Bromoform

Concen: 2.372 ug/l

RT: 12.37 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN064137.D

Acq: 15 Oct 2020 12:38

Instrument :

MSVOA\_N

ClientSampleId :

CAL-TB01-20201014

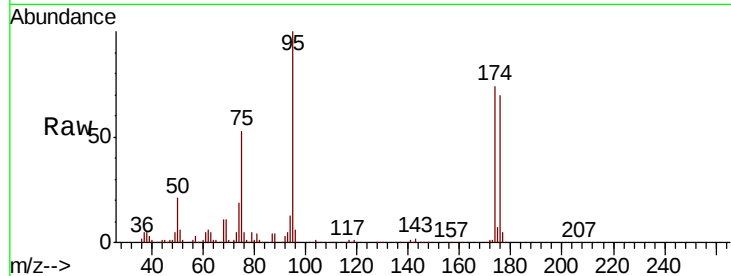
Tot Ion:173 Resp: 532

Ion Ratio Lower Upper

173 100

175 0.0 23.4 70.2#

254 0.0 0.1 0.1#

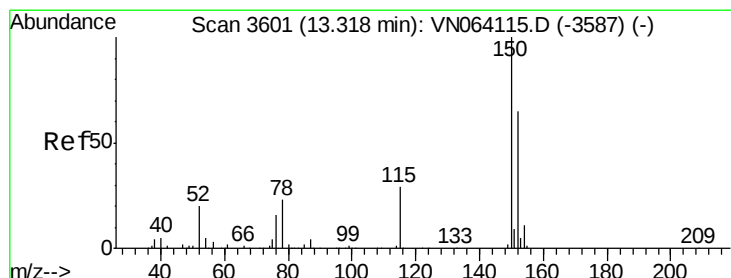
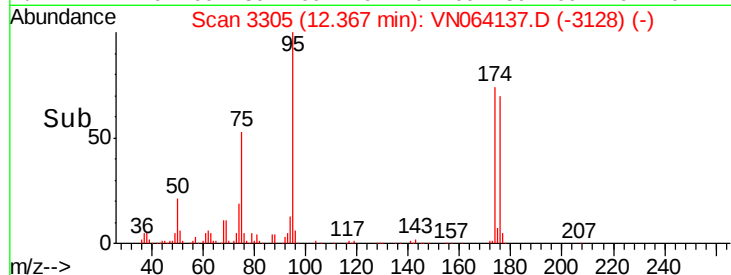
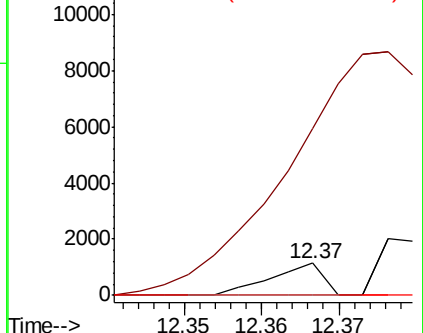


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064137.D

Acq: 15 Oct 2020 12:38

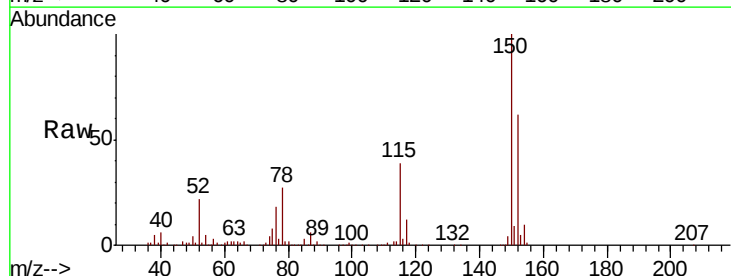
Tgt Ion:152 Resp: 190570

Ion Ratio Lower Upper

152 100

115 61.2 29.3 87.8

150 160.4 0.0 346.0

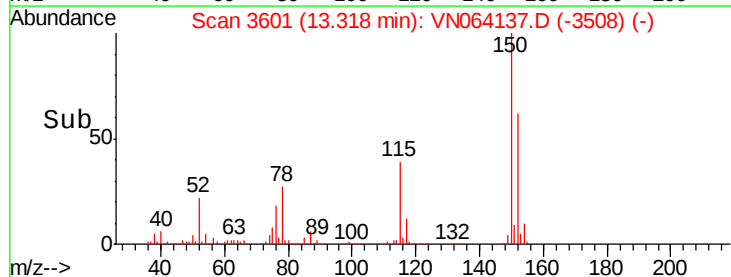
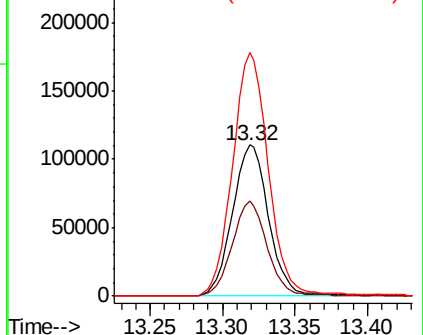


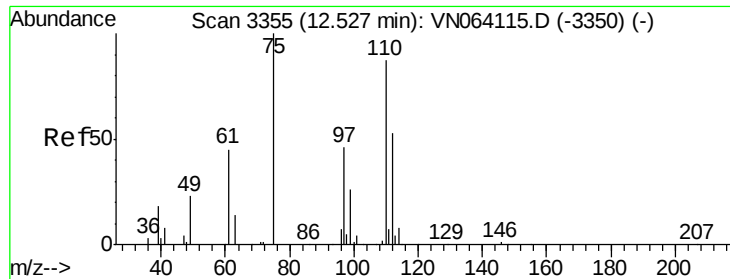
Abundance

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





#76

1,2,3-Trichloropropane

Concen: 26.522 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064137.D

Acq: 15 Oct 2020 12:38

Instrument :

MSVOA\_N

ClientSampleId :

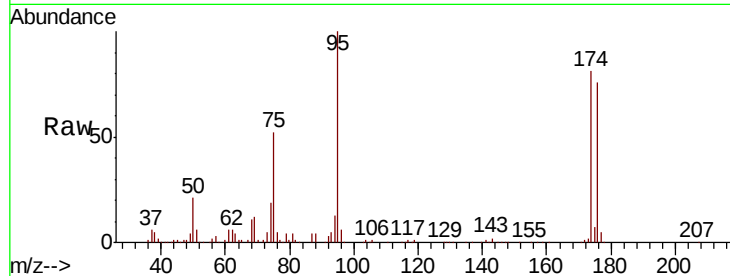
CAL-TB01-20201014

Tot Ion: 75 Resp: 118577

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.38

80000

60000

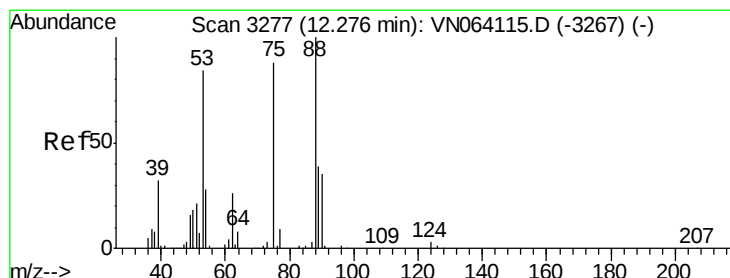
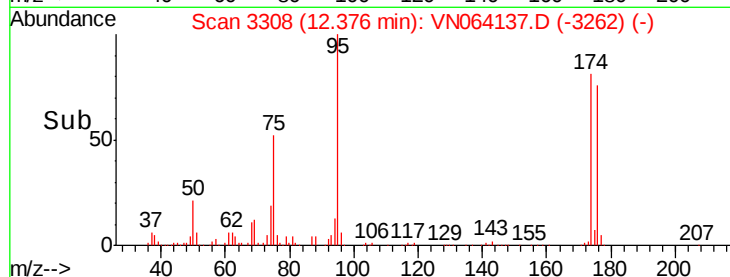
40000

20000

0

Time-->

12.30 12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 81.029 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064137.D

Acq: 15 Oct 2020 12:38

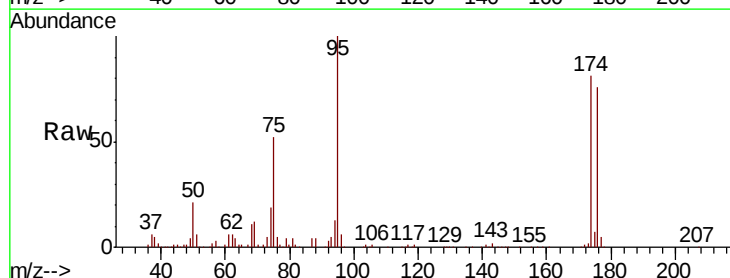
Tgt Ion: 75 Resp: 118577

Ion Ratio Lower Upper

75 100

53 0.3 75.7 113.5#

89 0.0 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.38

80000

60000

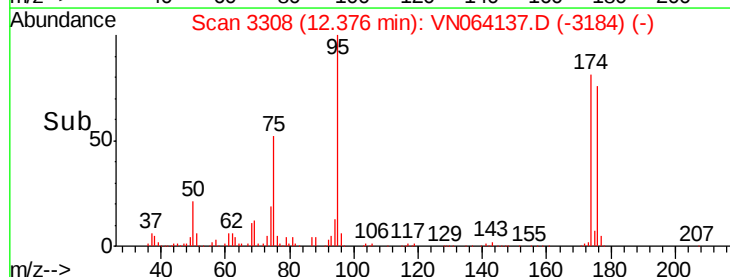
40000

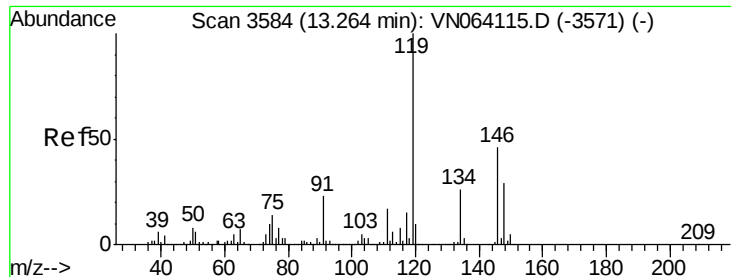
20000

0

Time-->

12.30 12.35 12.40 12.45

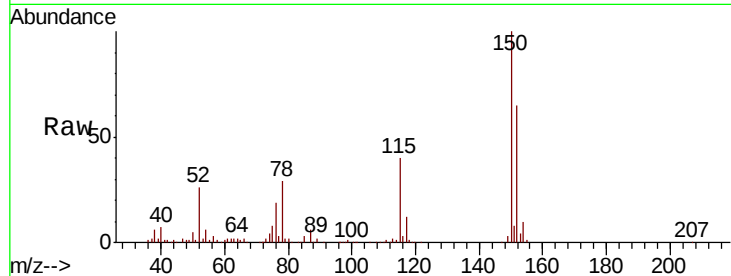




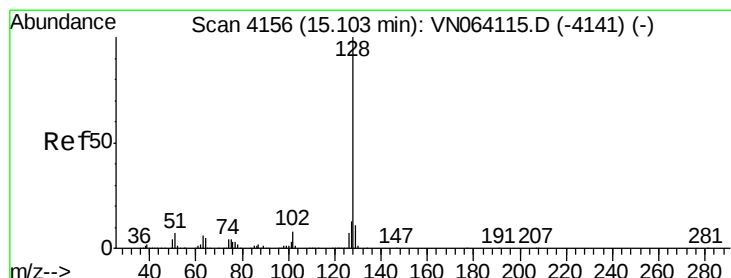
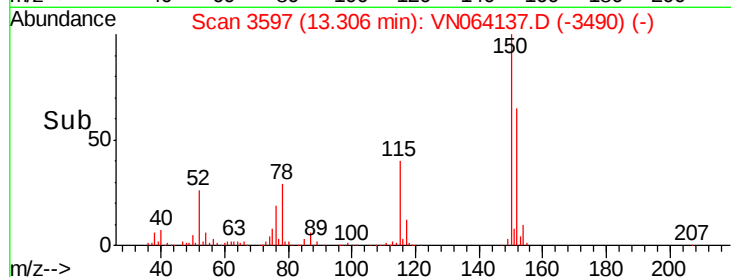
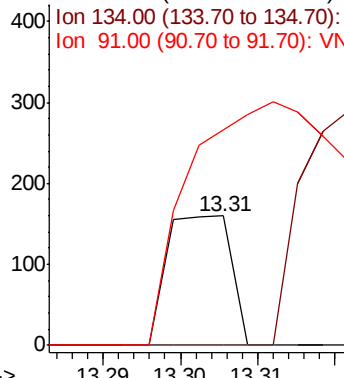
#86  
p-Isopropyltoluene  
Concen: 0.670 ug/l  
RT: 13.31 min Scan# 3597  
Delta R.T. 0.04 min  
Lab File: VN064137.D  
Acq: 15 Oct 2020 12:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
CAL-TB01-20201014

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 249.5 | 13.2  | 39.5# |
| 91      | 472.5 | 12.0  | 36.1# |

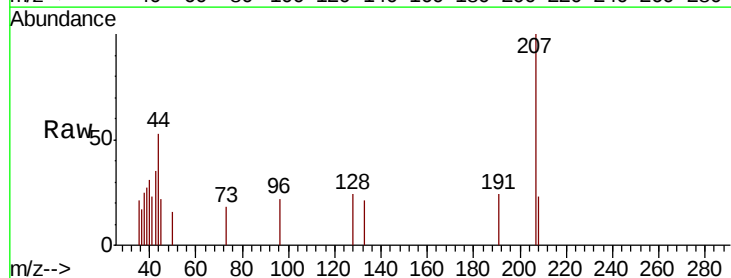


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 134.00 (133.70 to 134.70): V  
Ion 91.00 (90.70 to 91.70): V



#95  
Naphthalene  
Concen: 3.806 ug/l  
RT: 15.11 min Scan# 4158  
Delta R.T. 0.01 min  
Lab File: VN064137.D  
Acq: 15 Oct 2020 12:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 0.0   | 10.2  | 15.4# |
| 129     | 0.0   | 8.5   | 12.7# |



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

