

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022820\  
 Data File : VN060276.D  
 Acq On : 28 Feb 2020 12:02  
 Operator : JC/MD  
 Sample : L1733-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Feb 29 00:35:26 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N022720W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 27 13:52:50 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 190179   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.56  | 114  | 305251   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 276789   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 126777   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.00  | 65   | 116791   | 47.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.72%  |          |
| 35) Dibromofluoromethane    | 7.56  | 113  | 83167    | 58.70 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 117.40% |          |
| 50) Toluene-d8              | 10.08 | 98   | 368026   | 51.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.64% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 134484   | 49.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.94%  |          |

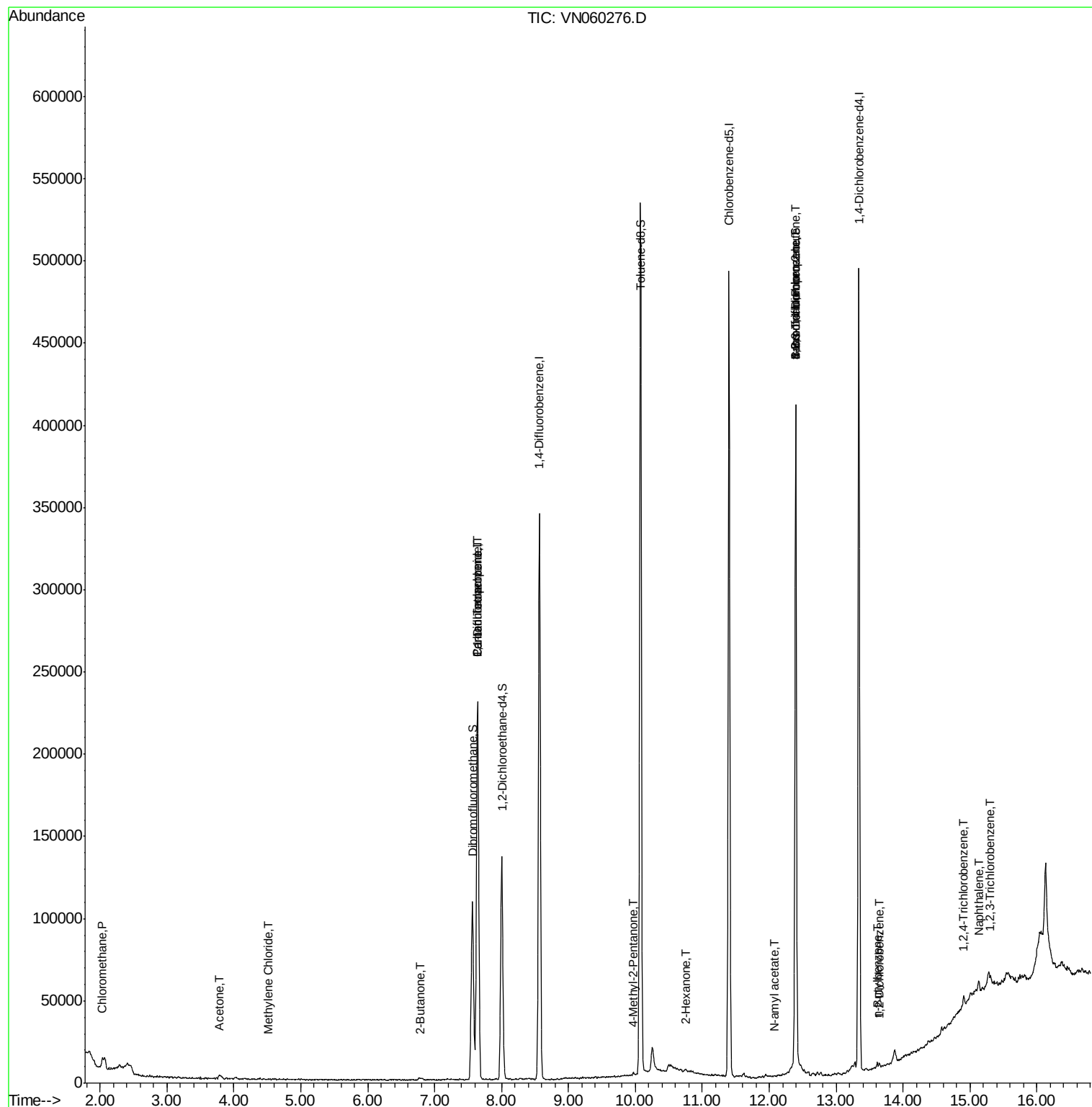
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.04  | 50   | 1273     | 0.419     | ug/l # | 87     |
| 16) Acetone                    | 3.78  | 43   | 4835     | 6.136     | ug/l   | 99     |
| 17) Carbon Disulfide           | 4.02  | 76   | 803      | Below Cal | #      | 75     |
| 20) Methylene Chloride         | 4.52  | 84   | 448      | 0.207     | ug/l # | 65     |
| 21) trans-1,2-Dichloroethene   | 5.00  | 96   | 346      | Below Cal | #      | 1      |
| 25) 2-Butanone                 | 6.79  | 43   | 469      | 0.368     | ug/l # | 49     |
| 31) Cyclohexane                | 7.63  | 56   | 3993     | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 14406    | 4.952     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 18308    | 6.464     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 1097     | 0.401     | ug/l # | 74     |
| 59) 2-Hexanone                 | 10.74 | 43   | 871      | 0.434     | ug/l   | 79     |
| 64) Tetrachloroethene          | 10.62 | 164  | 136      | Below Cal | #      | 65     |
| 71) Bromoform                  | 12.39 | 173  | 388      | 0.261     | ug/l # | 1      |
| 74) N-amyl acetate             | 12.07 | 43   | 921      | 0.224     | ug/l # | 44     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 70780    | 25.447    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 70780    | 70.245    | ug/l # | 8      |
| 88) 1,4-Dichlorobenzene        | 13.28 | 146  | 1197     | Below Cal |        | 84     |
| 89) n-Butylbenzene             | 13.61 | 91   | 1922     | 0.247     | ug/l   | 94     |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 885      | 0.219     | ug/l   | 87     |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 1729     | 0.761     | ug/l   | 87     |
| 94) Hexachlorobutadiene        | 15.01 | 225  | 672      | Below Cal |        | 81     |
| 95) Naphthalene                | 15.13 | 128  | 5470     | 0.455     | ug/l   | 97     |
| 96) 1,2,3-Trichlorobenzene     | 15.31 | 180  | 1972     | 0.637     | ug/l   | 85     |

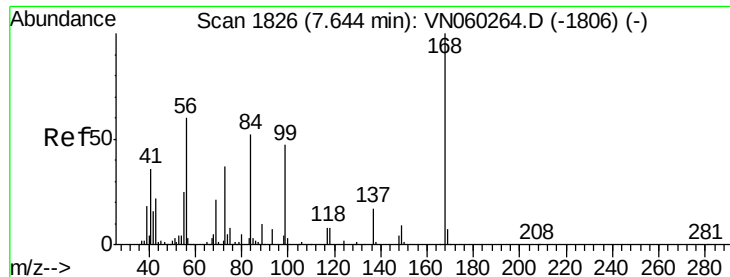
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Feb 27 13:52:50 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060276.D

Acq: 28 Feb 2020 12:02

Instrument :

MSVOA\_N

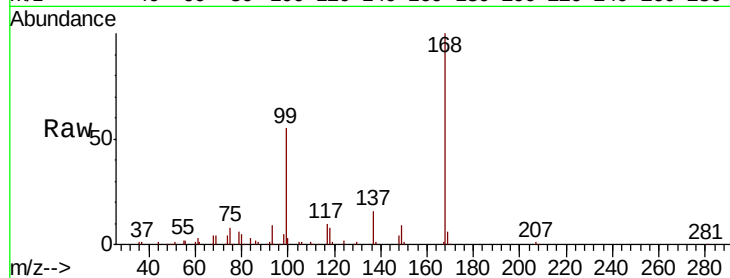
ClientSampled :

Tot Ion:168 Resp: 190179

Ion Ratio Lower Upper

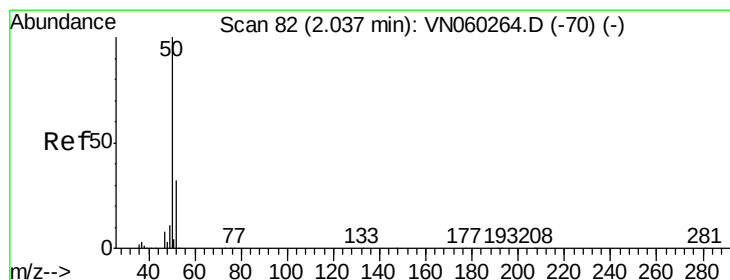
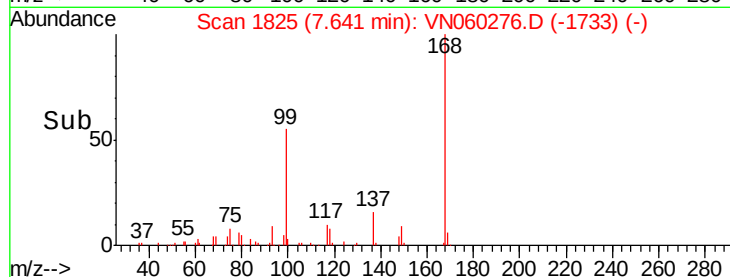
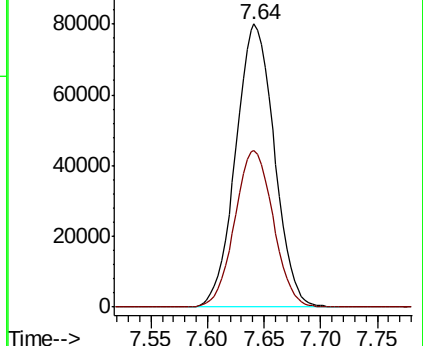
168 100

99 55.2 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.419 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN060276.D

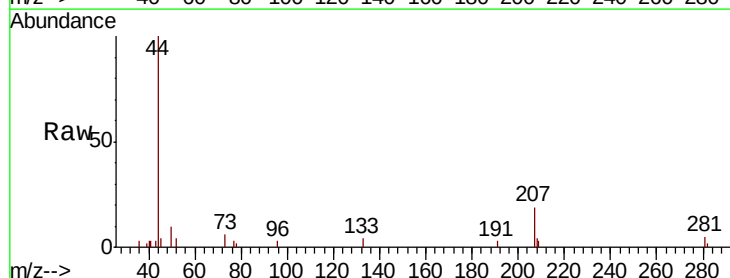
Acq: 28 Feb 2020 12:02

Tgt Ion: 50 Resp: 1273

Ion Ratio Lower Upper

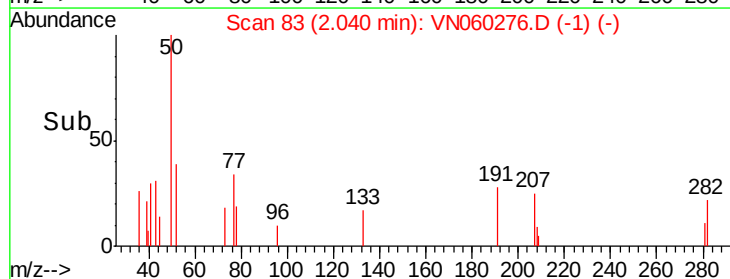
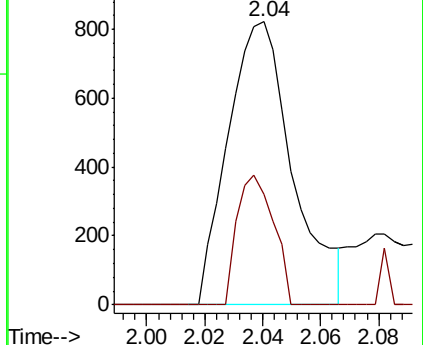
50 100

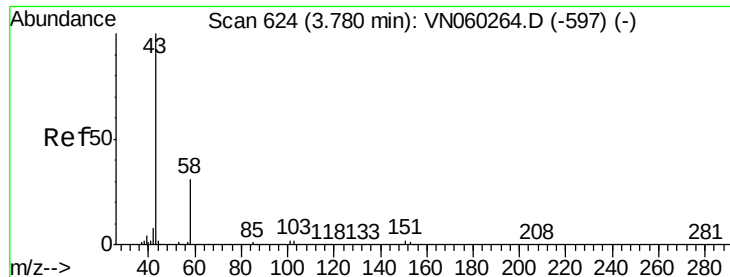
52 39.1 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#16

Acetone

Concen: 6.136 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060276.D

Acq: 28 Feb 2020 12:02

Instrument :

MSVOA\_N

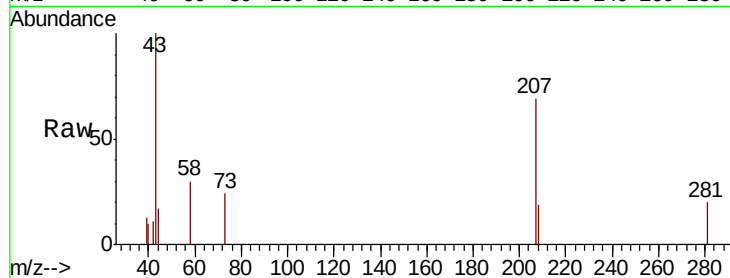
ClientSampled :

Tot Ion: 43 Resp: 4835

Ion Ratio Lower Upper

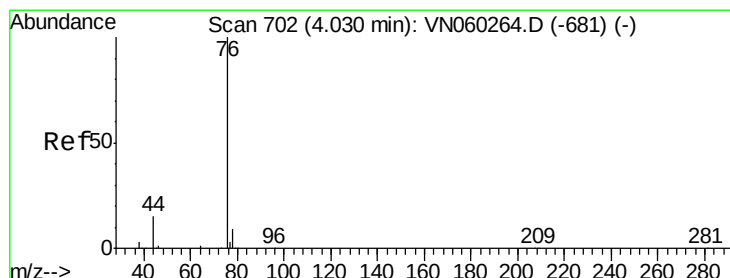
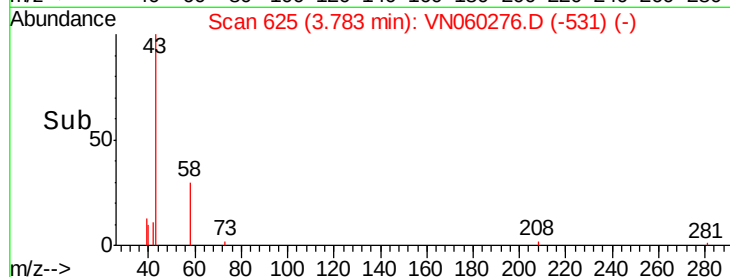
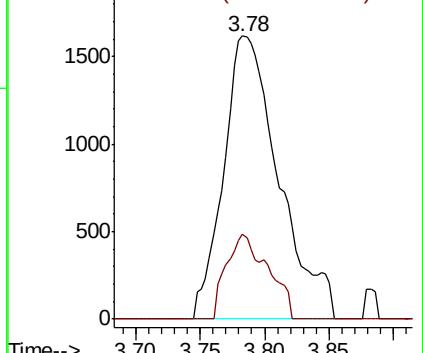
43 100

58 29.9 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060264.D (-597) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN060276.D

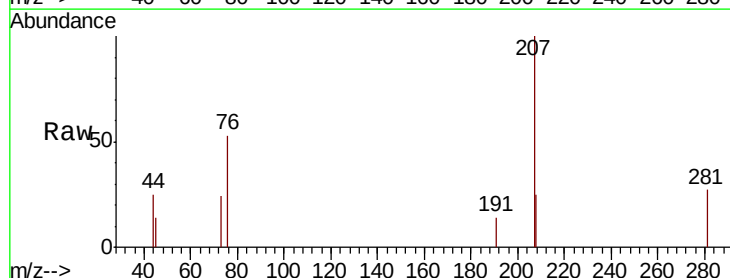
Acq: 28 Feb 2020 12:02

Tgt Ion: 76 Resp: 803

Ion Ratio Lower Upper

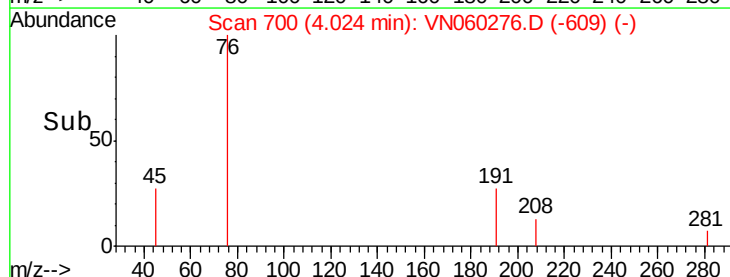
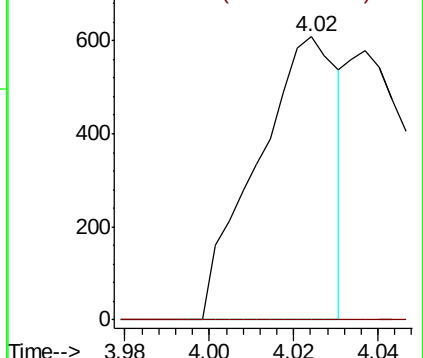
76 100

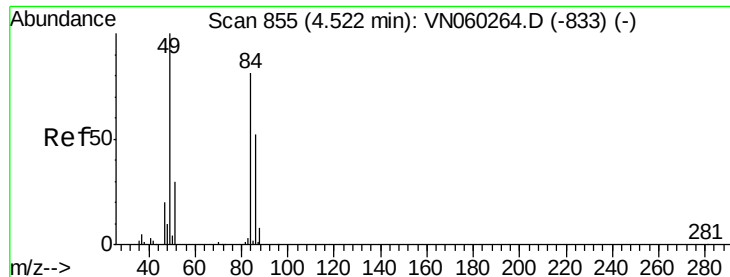
78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN060264.D (-681) (-)

Ion 77.90 (77.60 to 78.60): VN060264.D (-681) (-)

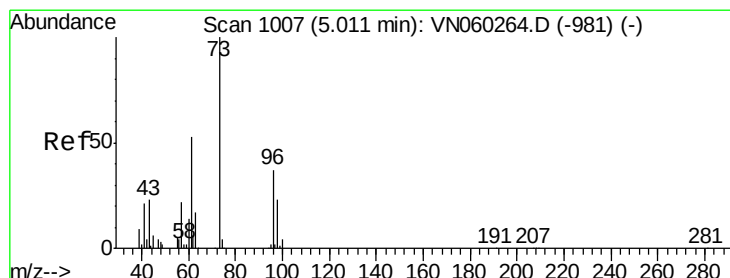
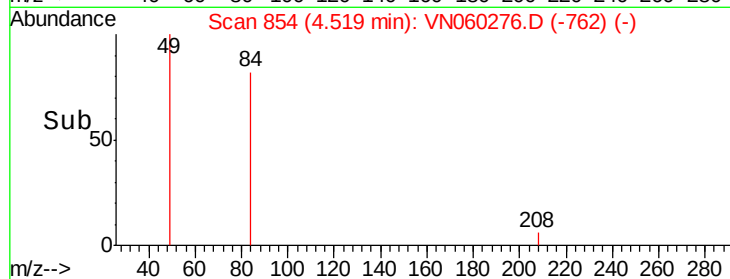
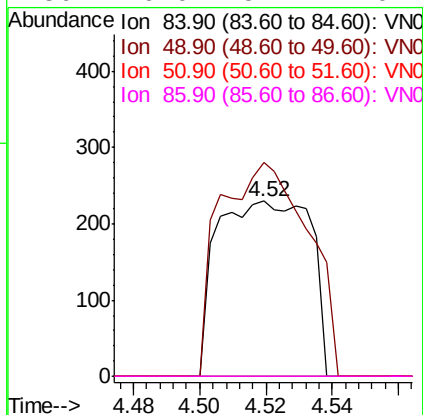
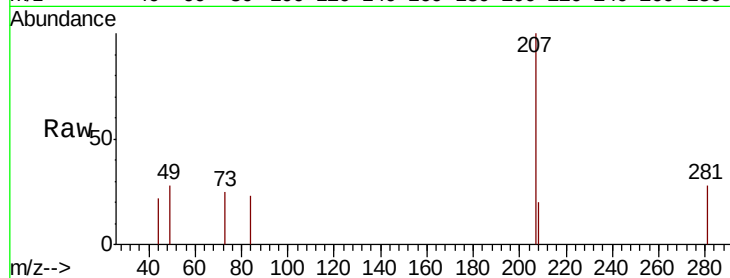




#20  
Methylene Chloride  
Concen: 0.207 ug/l  
RT: 4.52 min Scan# 854  
Delta R.T. -0.00 min  
Lab File: VN060276.D  
Acq: 28 Feb 2020 12:02

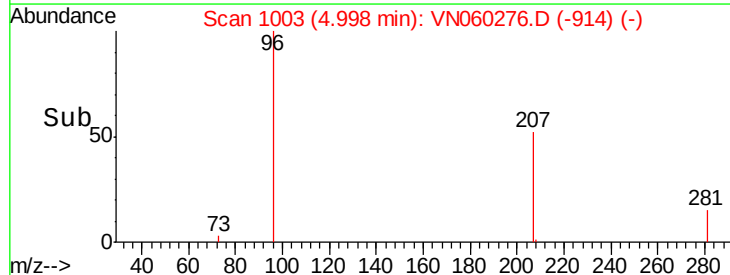
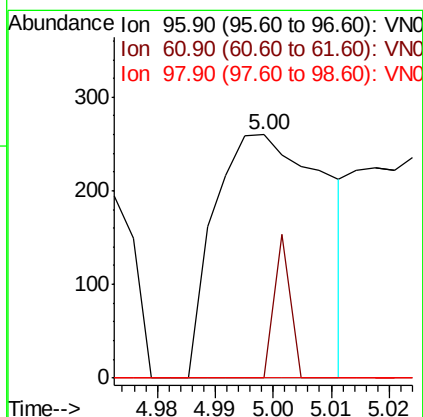
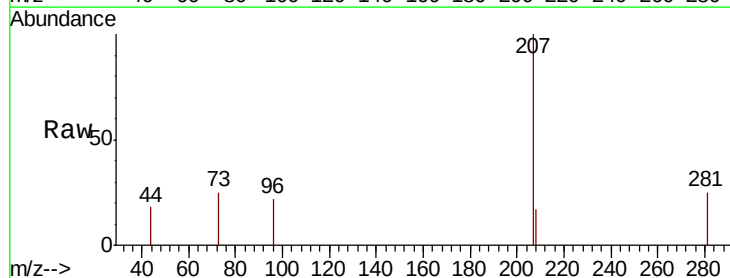
Instrument :  
MSVOA\_N  
ClientSampled :

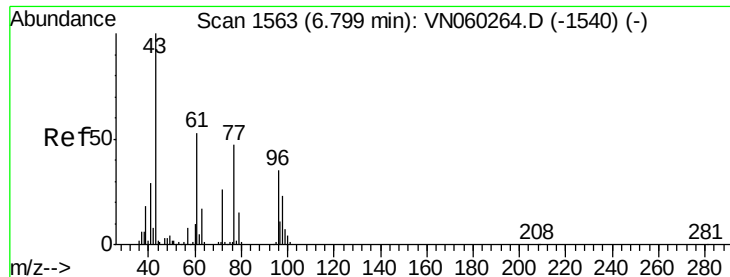
Tot Ion: 84 Resp: 448  
Ion Ratio Lower Upper  
84 100  
49 121.7 99.3 148.9  
51 0.0 30.1 45.1#  
86 0.0 51.1 76.7#



#21  
trans-1,2-Dichloroethene  
Concen: Below Cal  
RT: 5.00 min Scan# 1003  
Delta R.T. -0.01 min  
Lab File: VN060276.D  
Acq: 28 Feb 2020 12:02

Tgt Ion: 96 Resp: 346  
Ion Ratio Lower Upper  
96 100  
61 0.0 113.8 170.8#  
98 0.0 48.8 73.2#





#25

2-Butanone

Concen: 0.368 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.01 min

Lab File: VN060276.D

Acq: 28 Feb 2020 12:02

Instrument :

MSVOA\_N

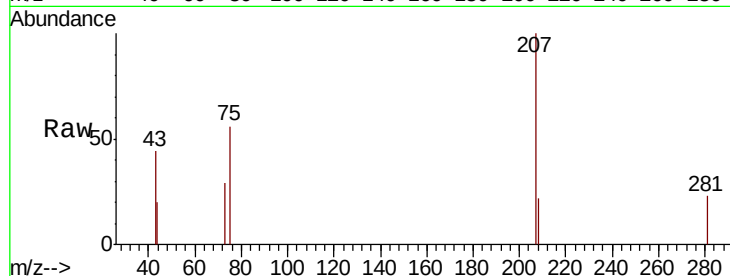
ClientSampled :

Tot Ion: 43 Resp: 469

Ion Ratio Lower Upper

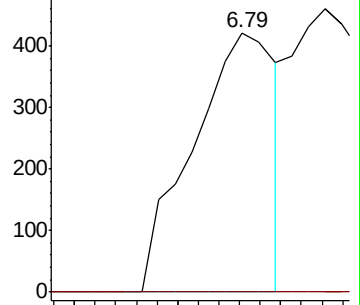
43 100

72 0.0 20.9 31.3#

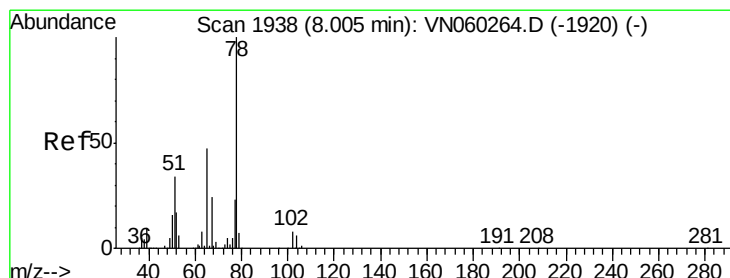
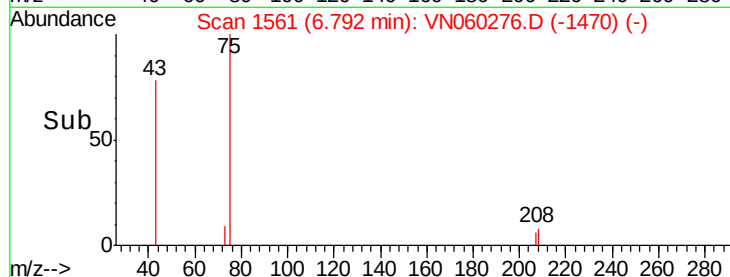


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



Time-->



#33

1,2-Dichloroethane-d4

Concen: 47.865 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060276.D

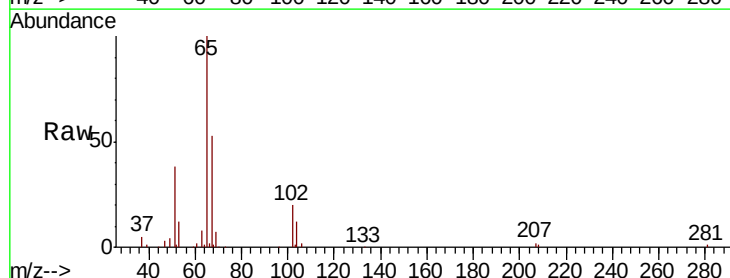
Acq: 28 Feb 2020 12:02

Tgt Ion: 65 Resp: 116791

Ion Ratio Lower Upper

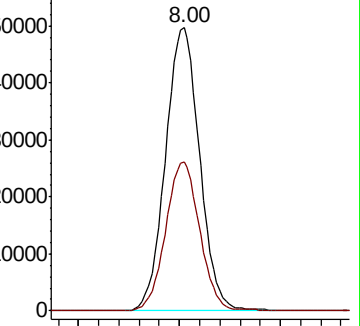
65 100

67 52.6 0.0 103.8

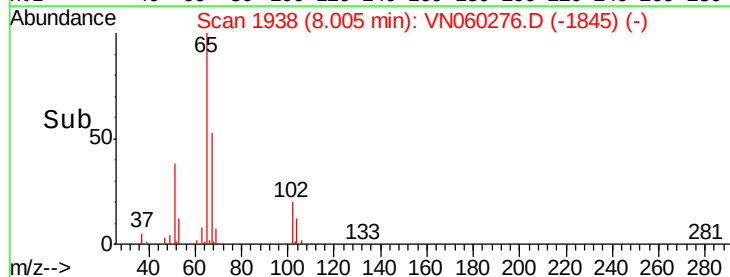


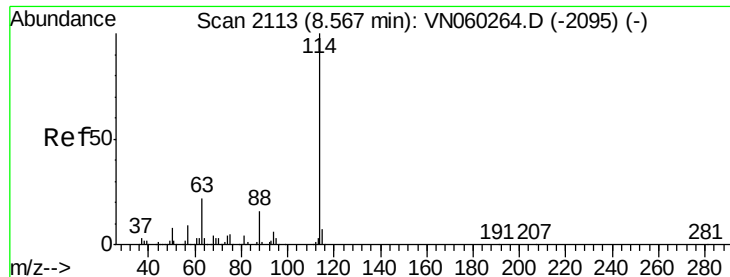
Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



Time-->

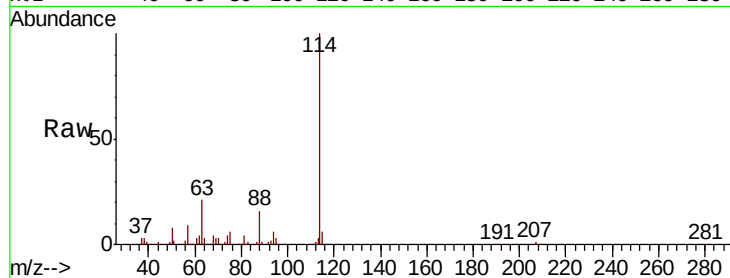




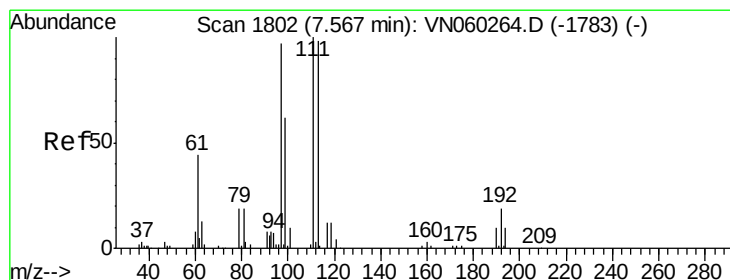
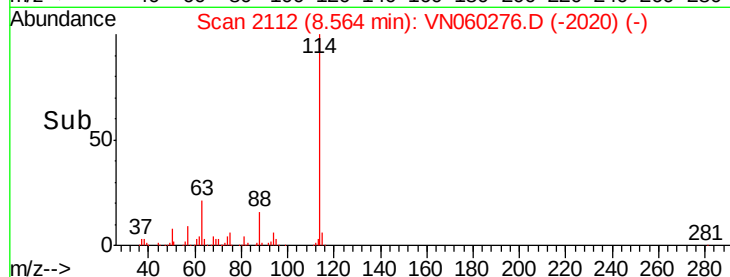
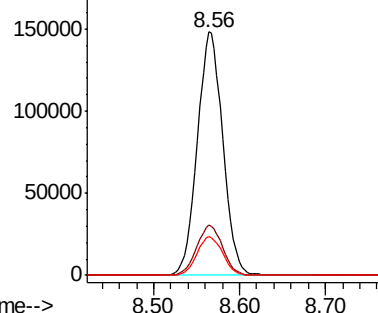
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.56 min Scan# 2112  
 Delta R.T. -0.00 min  
 Lab File: VN060276.D  
 Acq: 28 Feb 2020 12:02

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.5  | 0.0   | 43.2  |
| 88      | 15.8  | 0.0   | 31.6  |

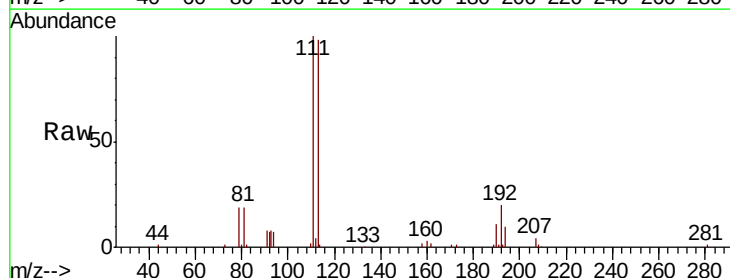


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

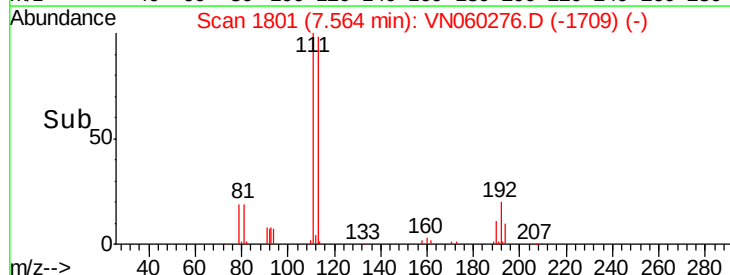
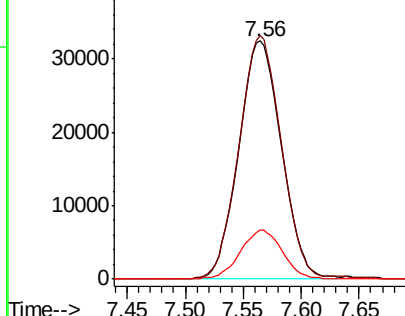


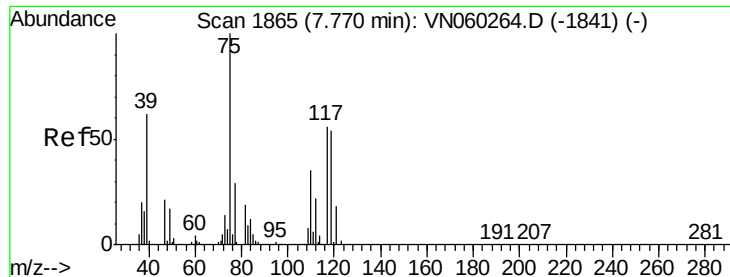
#35  
 Dibromofluoromethane  
 Concen: 58.697 ug/l  
 RT: 7.56 min Scan# 1801  
 Delta R.T. -0.00 min  
 Lab File: VN060276.D  
 Acq: 28 Feb 2020 12:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.2 | 82.4  | 123.6 |
| 192     | 20.2  | 16.2  | 24.2  |



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

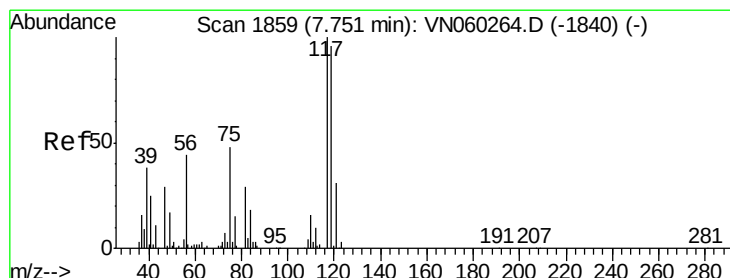
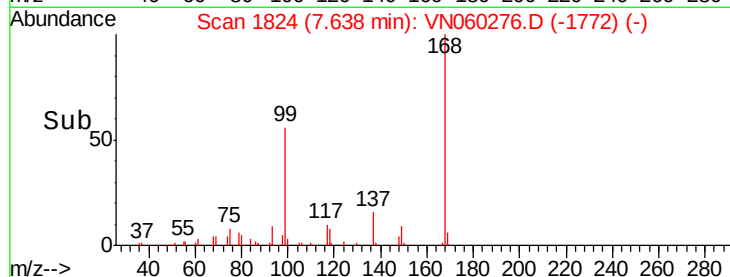
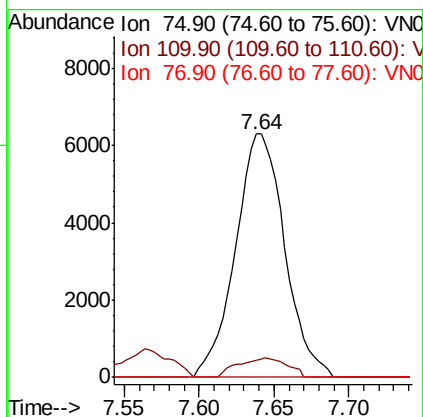
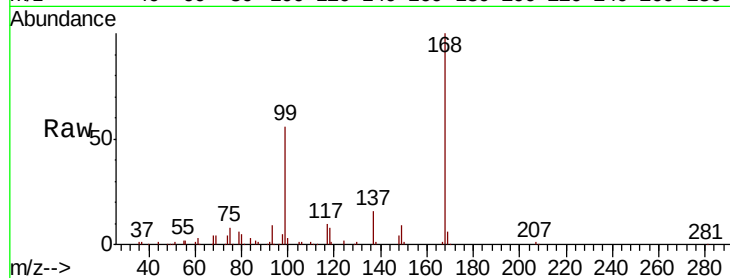




#36  
 1,1-Dichloropropene  
 Concen: 4.952 ug/l  
 RT: 7.64 min Scan# 1824  
 Delta R.T. -0.13 min  
 Lab File: VN060276.D  
 Acq: 28 Feb 2020 12:02

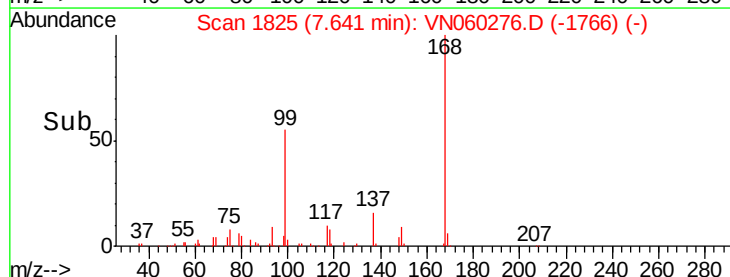
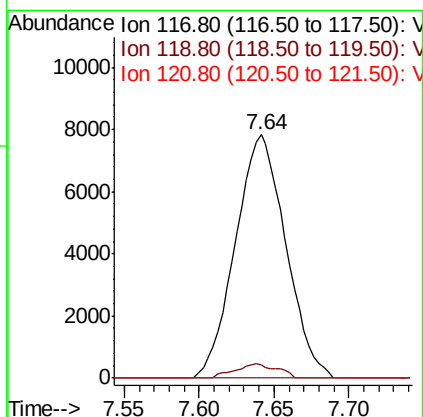
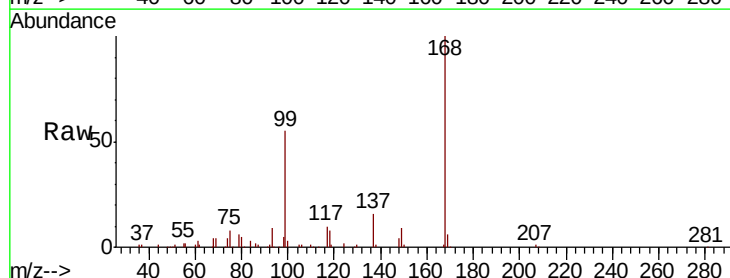
Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 7.9   | 17.3  | 52.0# |
| 77      | 0.0   | 24.2  | 36.2# |

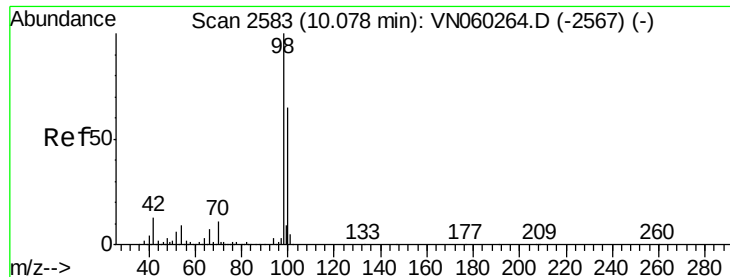


#38  
 Carbon Tetrachloride  
 Concen: 6.464 ug/l  
 RT: 7.64 min Scan# 1825  
 Delta R.T. -0.11 min  
 Lab File: VN060276.D  
 Acq: 28 Feb 2020 12:02

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.4   | 76.7  | 115.1# |
| 121     | 0.0   | 24.5  | 36.7#  |







#50

Toluene-d8

Concen: 51.321 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060276.D

Acq: 28 Feb 2020 12:02

Instrument :

MSVOA\_N

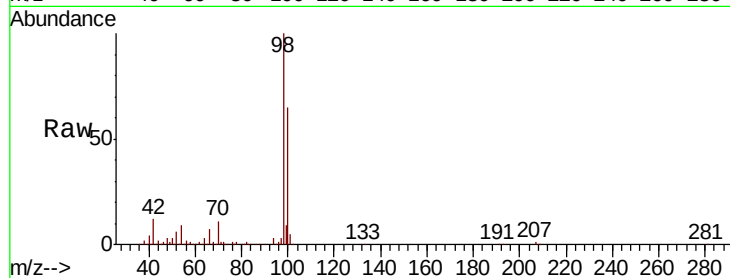
ClientSampled :

Tot Ion: 98 Resp: 368026

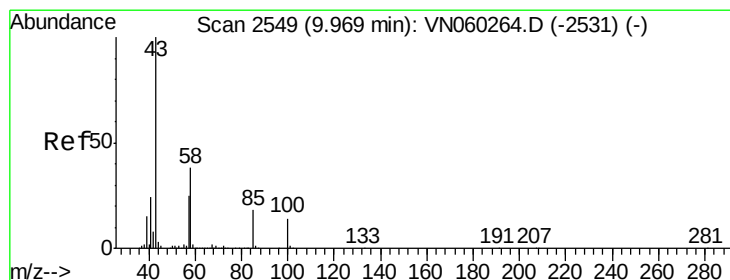
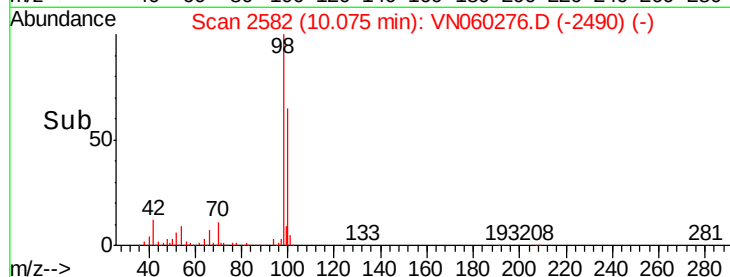
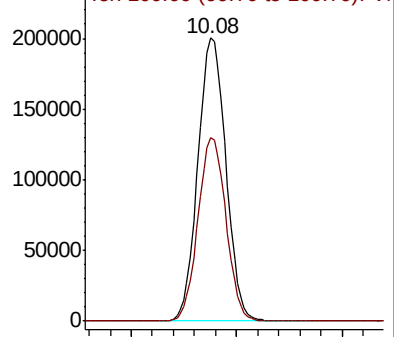
Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN060264.D (-2567) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.401 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060276.D

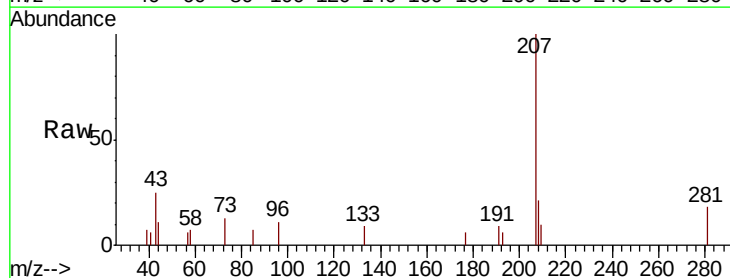
Acq: 28 Feb 2020 12:02

Tgt Ion: 43 Resp: 1097

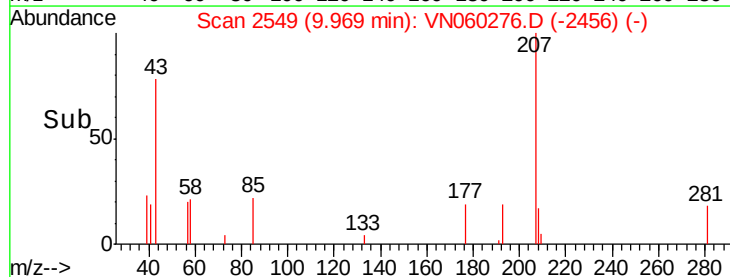
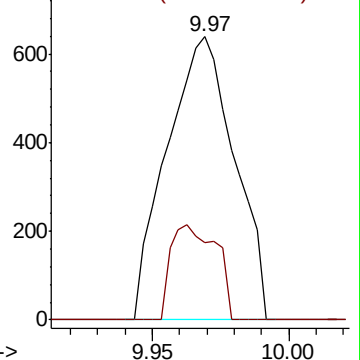
Ion Ratio Lower Upper

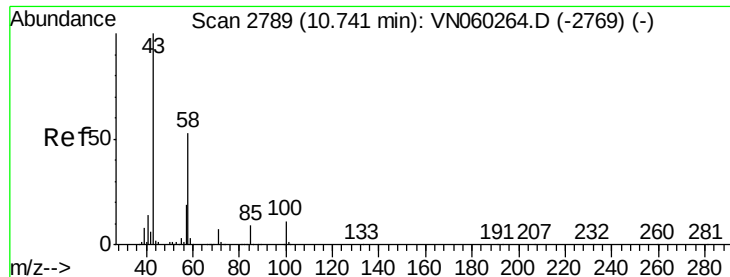
43 100

58 22.5 30.9 46.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-2531) (-)





#59

2-Hexanone

Concen: 0.434 ug/l

RT: 10.74 min Scan# 2789

Delta R.T. 0.00 min

Lab File: VN060276.D

Acq: 28 Feb 2020 12:02

Instrument :

MSVOA\_N

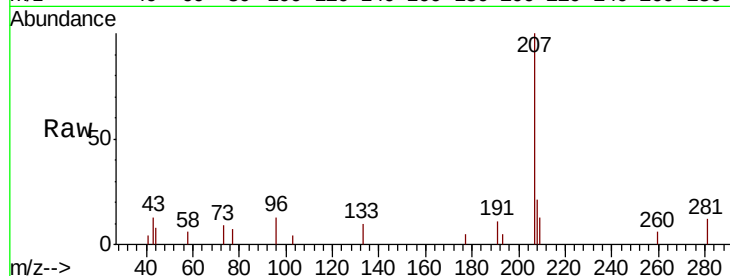
ClientSampleId :

Tot Ion: 43 Resp: 871

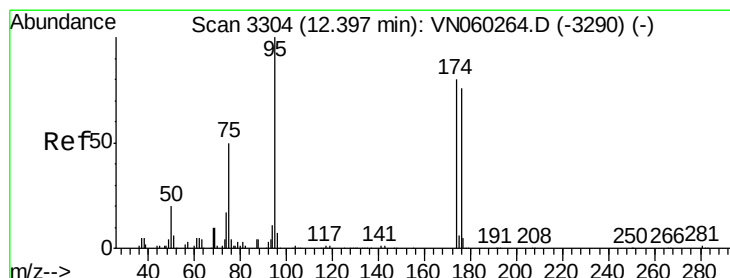
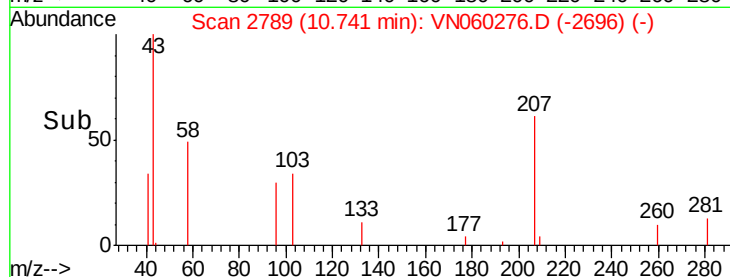
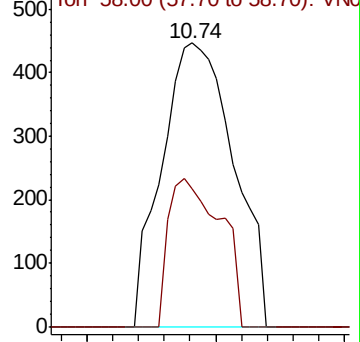
Ion Ratio Lower Upper

43 100

58 37.8 26.5 79.5



Abundance Ion 43.00 (42.70 to 43.70): VN060276.D (-2696) (-)



#62

4-Bromofluorobenzene

Concen: 49.473 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060276.D

Acq: 28 Feb 2020 12:02

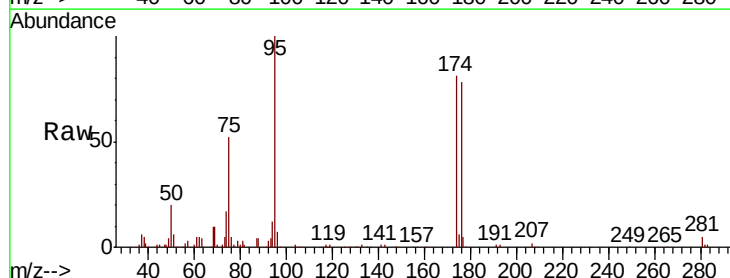
Tgt Ion: 95 Resp: 134484

Ion Ratio Lower Upper

95 100

174 80.6 0.0 159.2

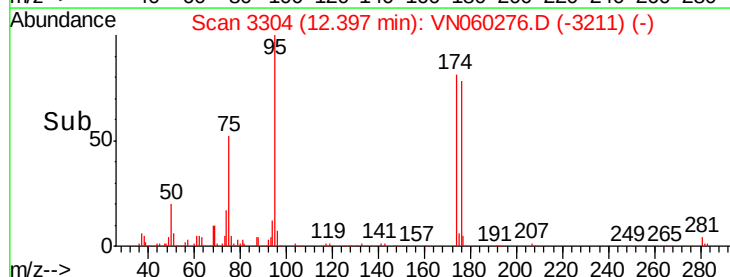
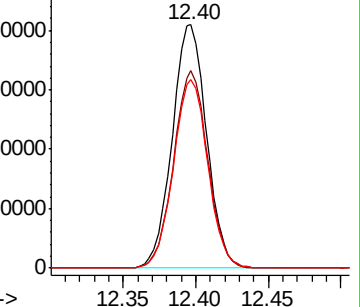
176 77.9 0.0 153.8

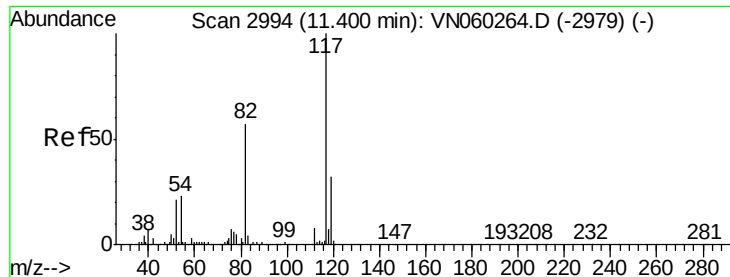


Abundance Ion 94.90 (94.60 to 95.60): VN060276.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060276.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060276.D (-3211) (-)

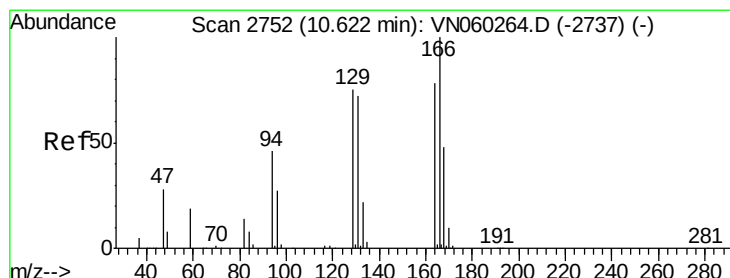
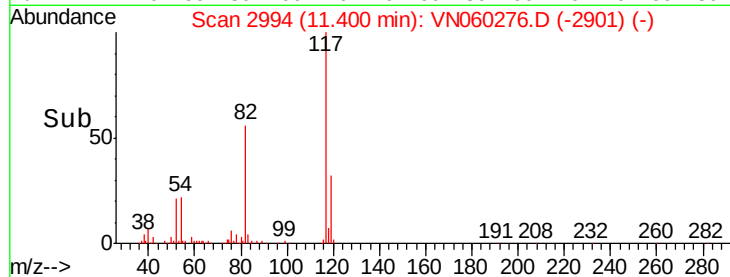
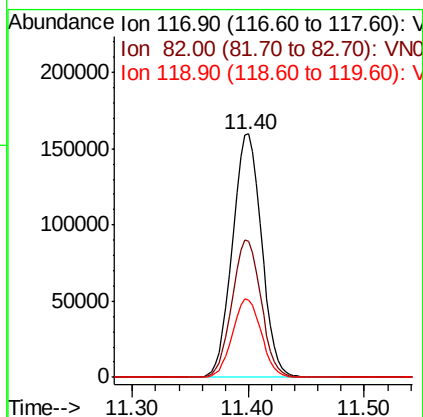
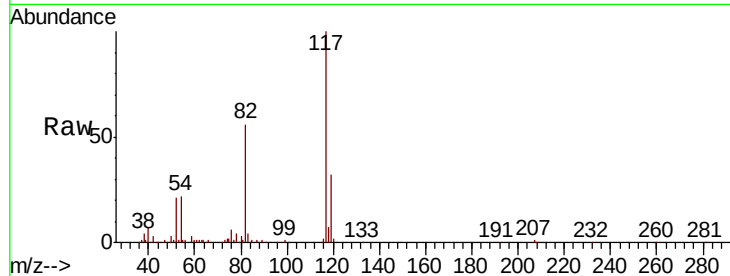




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. 0.00 min  
Lab File: VN060276.D  
Acq: 28 Feb 2020 12:02

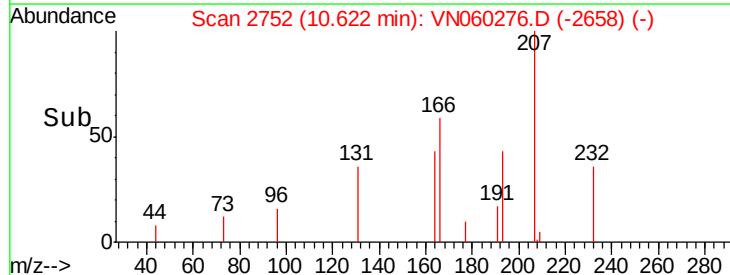
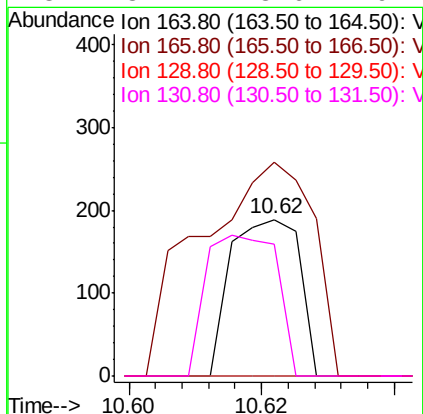
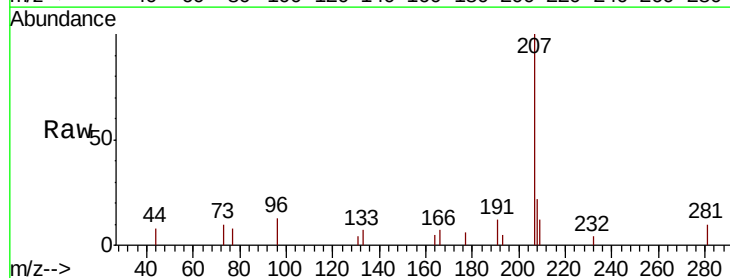
Instrument :  
MSVOA\_N  
ClientSampleId :

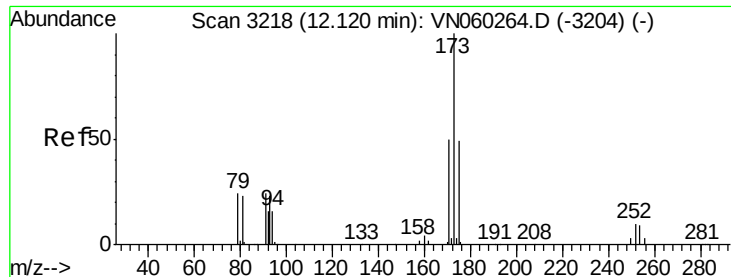
Tot Ion:117 Resp: 276789  
Ion Ratio Lower Upper  
117 100  
82 55.7 45.8 68.6  
119 31.9 25.8 38.8



#64  
Tetrachloroethene  
Concen: Below Cal  
RT: 10.62 min Scan# 2752  
Delta R.T. 0.00 min  
Lab File: VN060276.D  
Acq: 28 Feb 2020 12:02

Tgt Ion:164 Resp: 136  
Ion Ratio Lower Upper  
164 100  
166 136.5 102.0 153.0  
129 0.0 76.4 114.6#  
131 84.1 73.6 110.4





#71

Bromoform

Concen: 0.261 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.27 min

Lab File: VN060276.D

Acq: 28 Feb 2020 12:02

Instrument :

MSVOA\_N

ClientSampleId :

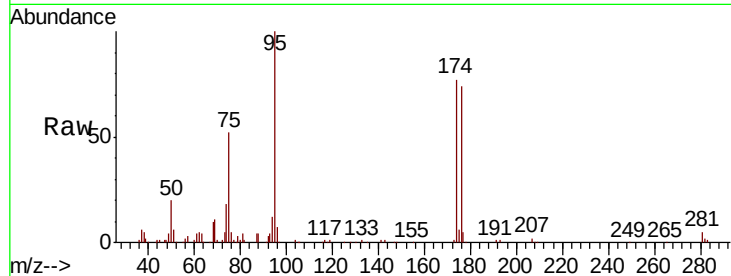
Tot Ion:173 Resp: 388

Ion Ratio Lower Upper

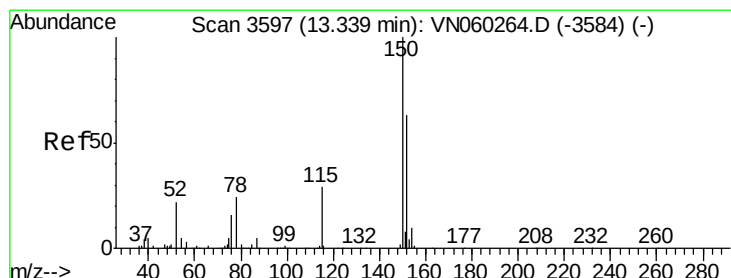
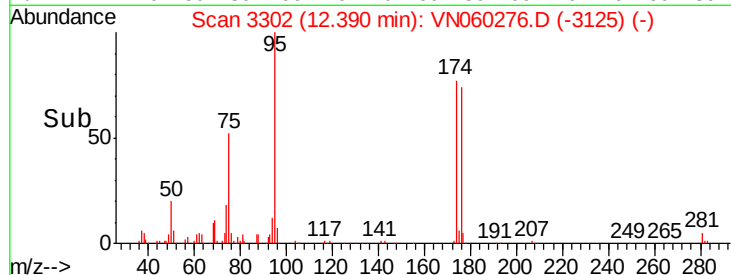
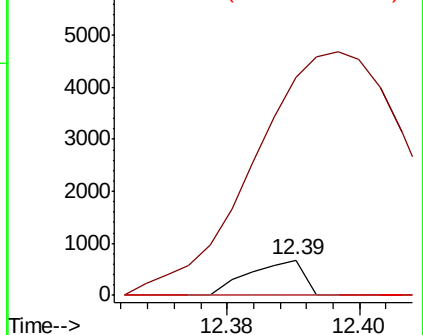
173 100

175 1736.6 24.1 72.2#

254 0.0 0.0 0.0



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: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060276.D

Acq: 28 Feb 2020 12:02

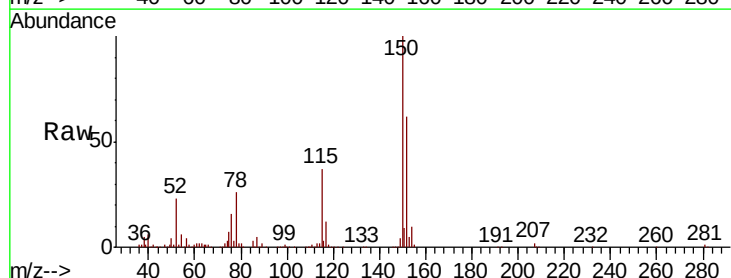
Tgt Ion:152 Resp: 126777

Ion Ratio Lower Upper

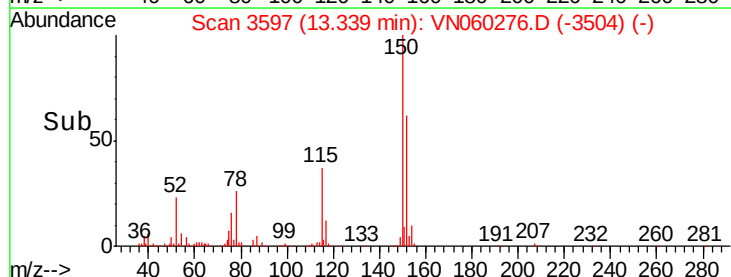
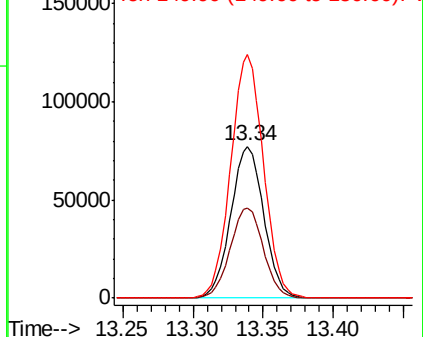
152 100

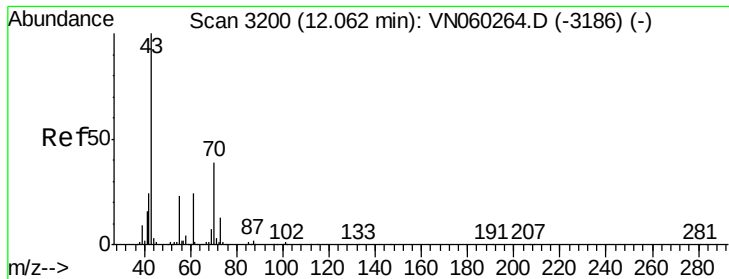
115 60.0 30.0 90.0

150 159.3 0.0 349.6



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

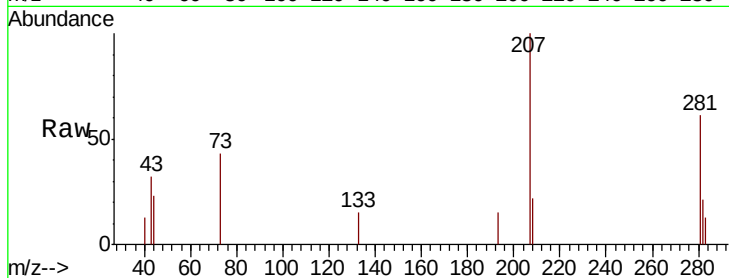




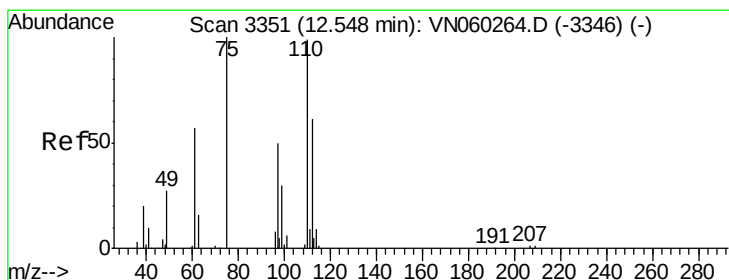
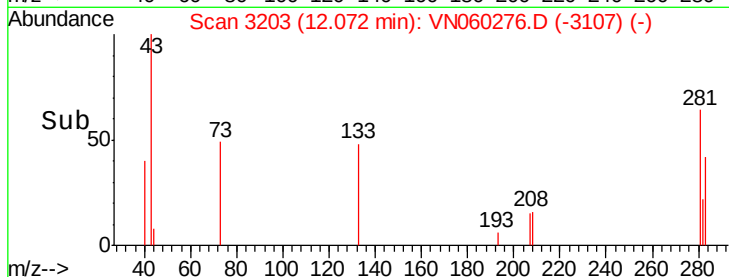
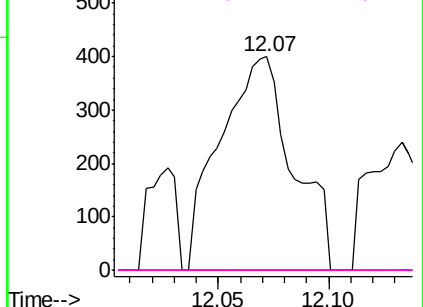
#74  
N-amvl acetate  
Concen: 0.224 ug/l  
RT: 12.07 min Scan# 3203  
Delta R.T. 0.01 min  
Lab File: VN060276.D  
Acq: 28 Feb 2020 12:02

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 43 Resp: 921  
Ion Ratio Lower Upper  
43 100  
70 0.0 32.2 48.2#  
55 0.0 18.2 27.4#  
61 0.0 19.2 28.8#

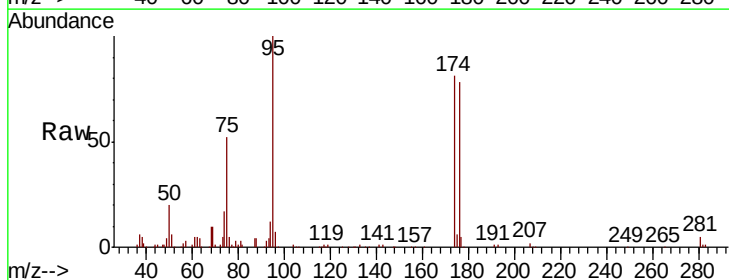


Abundance Ion 43.00 (42.70 to 43.70): VNO  
Ion 70.00 (69.70 to 70.70): VNO  
Ion 55.00 (54.70 to 55.70): VNO  
Ion 61.00 (60.70 to 61.70): VNO

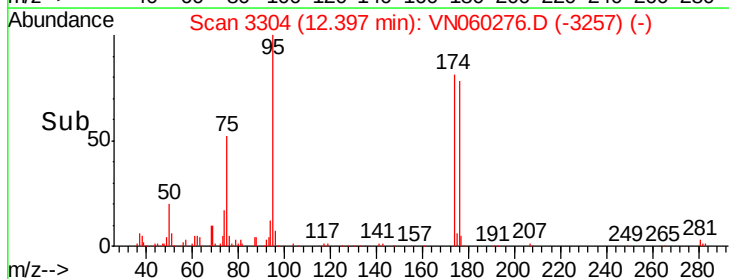
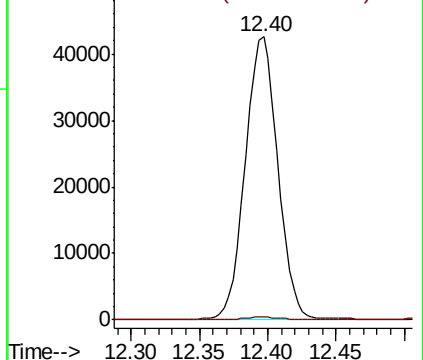


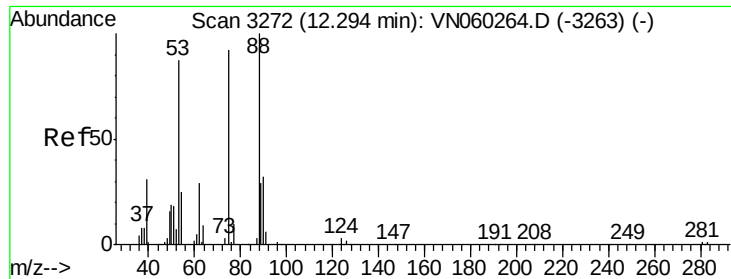
#76  
1,2,3-Trichloropropane  
Concen: 25.447 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. -0.15 min  
Lab File: VN060276.D  
Acq: 28 Feb 2020 12:02

Tgt Ion: 75 Resp: 70780  
Ion Ratio Lower Upper  
75 100  
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO  
Ion 77.00 (76.70 to 77.70): VNO

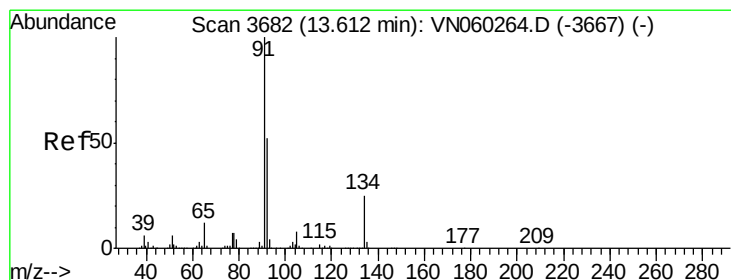
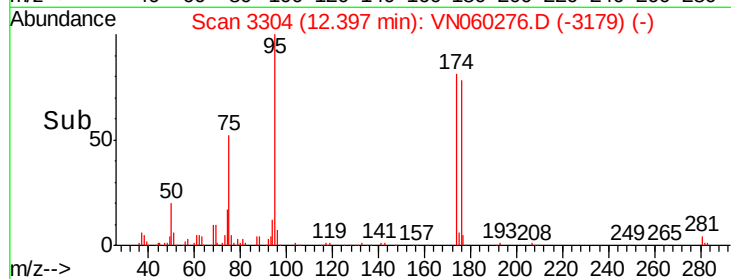
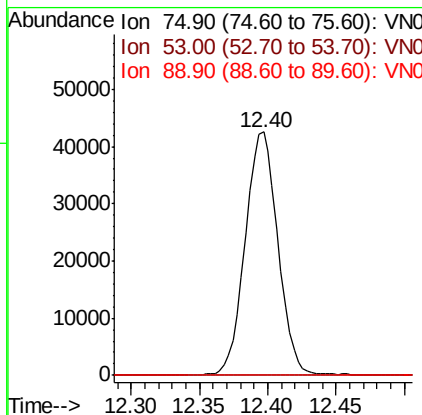
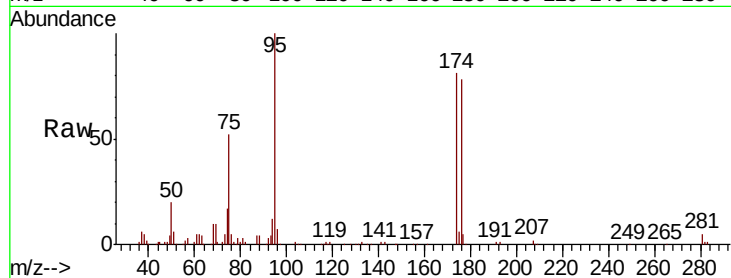




#81  
trans-1,4-Dichloro-2-butene  
Concen: 70.245 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. 0.10 min  
Lab File: VN060276.D  
Acq: 28 Feb 2020 12:02

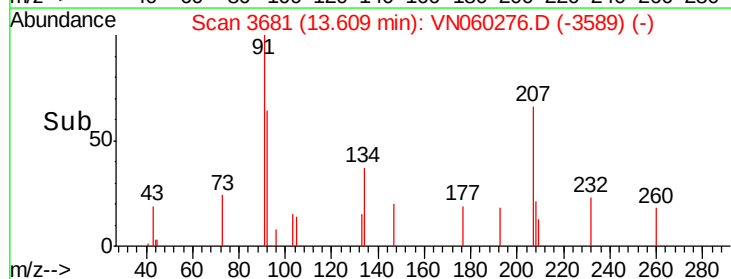
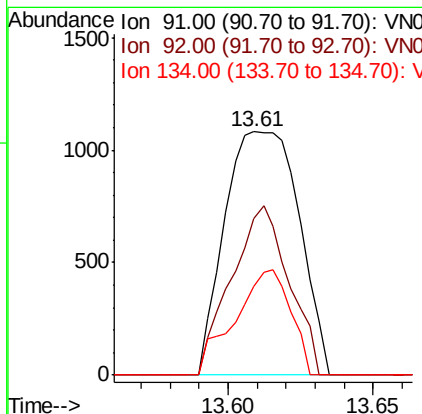
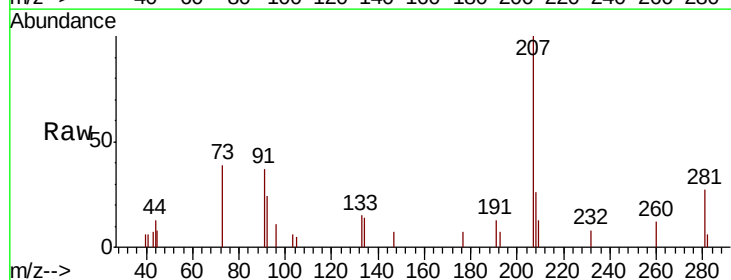
Instrument :  
MSVOA\_N  
ClientSampled :

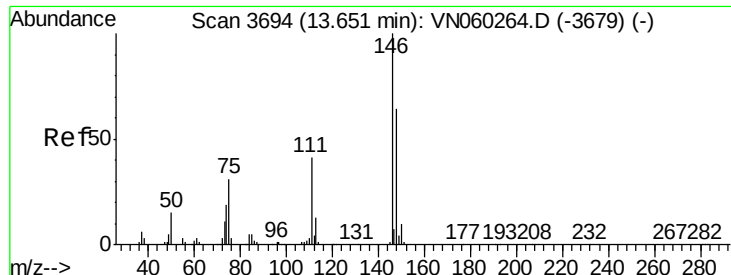
Tot Ion: 75 Resp: 70780  
Ion Ratio Lower Upper  
75 100  
53 0.0 73.8 110.6#  
89 0.0 57.1 85.7#



#89  
n-Butylbenzene  
Concen: 0.247 ug/l  
RT: 13.61 min Scan# 3681  
Delta R.T. -0.00 min  
Lab File: VN060276.D  
Acq: 28 Feb 2020 12:02

Tgt Ion: 91 Resp: 1922  
Ion Ratio Lower Upper  
91 100  
92 53.9 26.0 78.0  
134 32.6 12.7 38.1

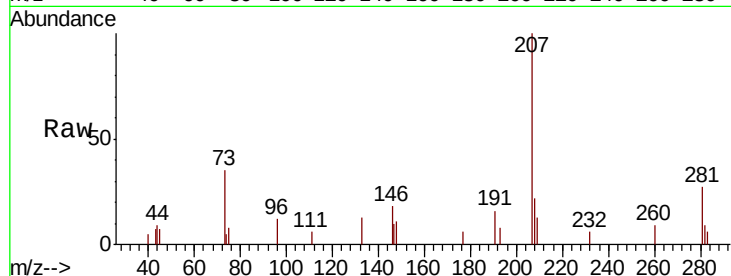




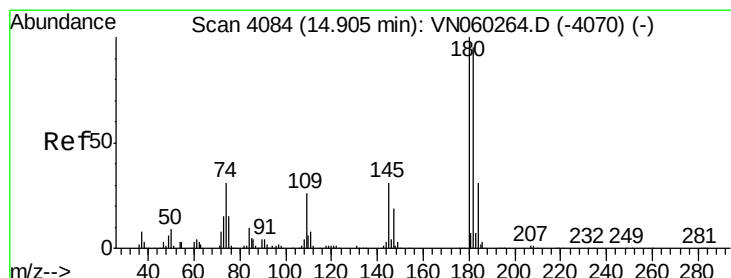
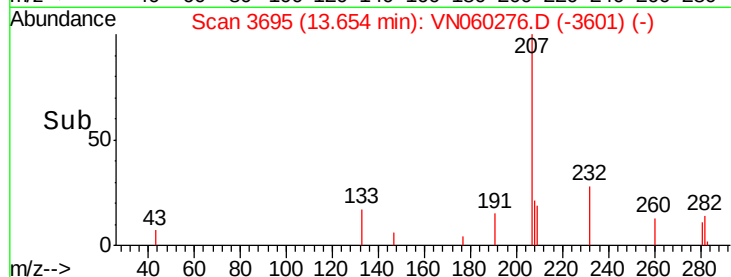
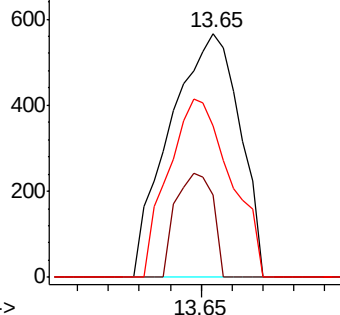
#91  
 1,2-Dichlorobenzene  
 Concen: 0.219 ug/l  
 RT: 13.65 min Scan# 3695  
 Delta R.T. 0.00 min  
 Lab File: VN060276.D  
 Acq: 28 Feb 2020 12:02

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 22.8  | 20.3  | 61.0  |
| 148     | 65.6  | 31.8  | 95.3  |

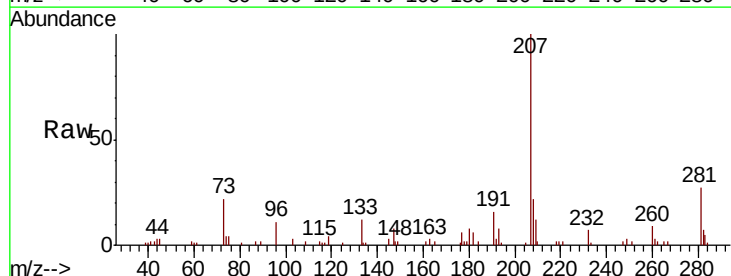


Abundance Ion 145.90 (145.60 to 146.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V

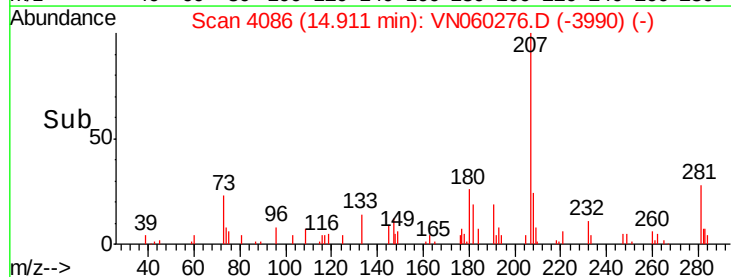
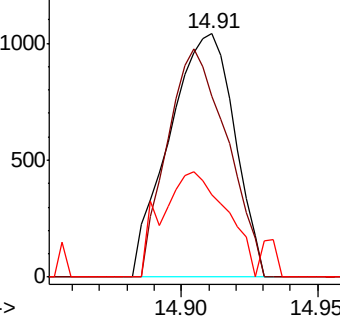


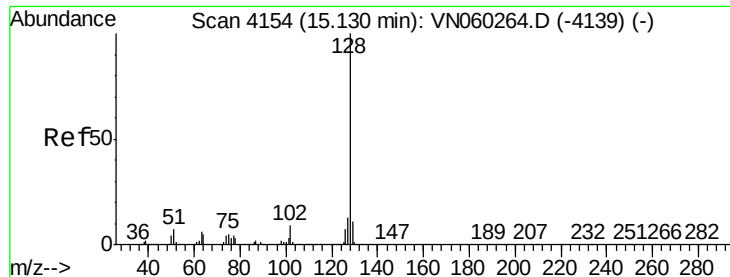
#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.761 ug/l  
 RT: 14.91 min Scan# 4086  
 Delta R.T. 0.01 min  
 Lab File: VN060276.D  
 Acq: 28 Feb 2020 12:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 85.9  | 47.8  | 143.3 |
| 145     | 42.9  | 15.4  | 46.1  |



Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 0.455 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060276.D

Acq: 28 Feb 2020 12:02

Instrument :

MSVOA\_N

ClientSampleId :

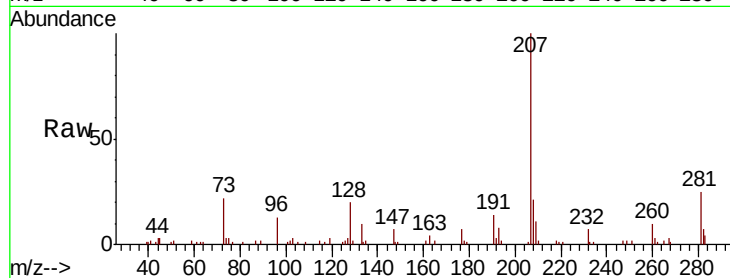
Tot Ion:128 Resp: 5470

Ion Ratio Lower Upper

128 100

127 11.9 10.4 15.6

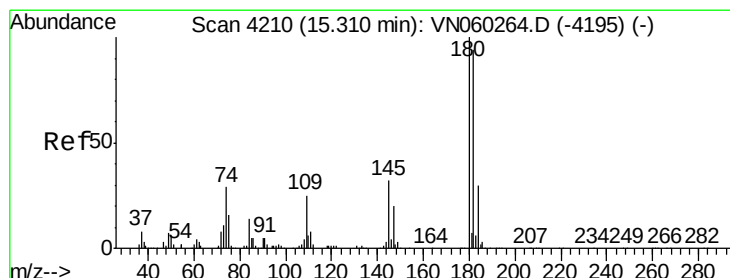
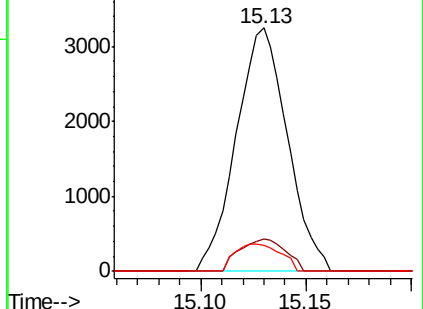
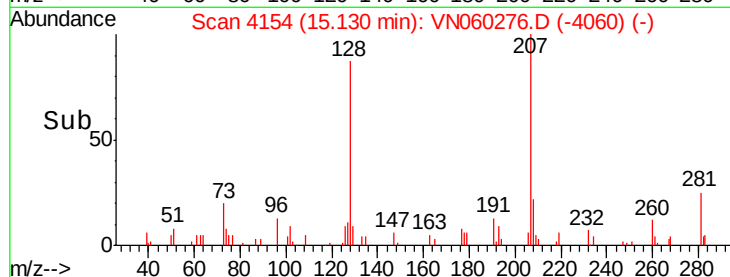
129 9.9 8.6 13.0



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



#96

1,2,3-Trichlorobenzene

Concen: 0.637 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. 0.00 min

Lab File: VN060276.D

Acq: 28 Feb 2020 12:02

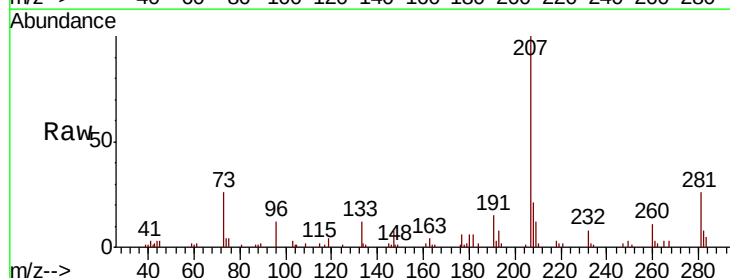
Tgt Ion:180 Resp: 1972

Ion Ratio Lower Upper

180 100

182 80.3 47.3 142.0

145 40.6 16.2 48.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

