

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081420\  
 Data File : VD066232.D  
 Acq On : 14 Aug 2020 13:12  
 Operator : VA/SY  
 Sample : L3679-01  
 Misc : 8.20G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 S413-K-SO-1-1.5-081220

Quant Time: Aug 17 08:43:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:49:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.97  | 168  | 354806   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 557404   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 618171   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 254165   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 141741   | 44.78 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.56%  |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 165519   | 46.87 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.74%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 692304   | 53.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.26% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 272913   | 58.10 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 116.20% |          |

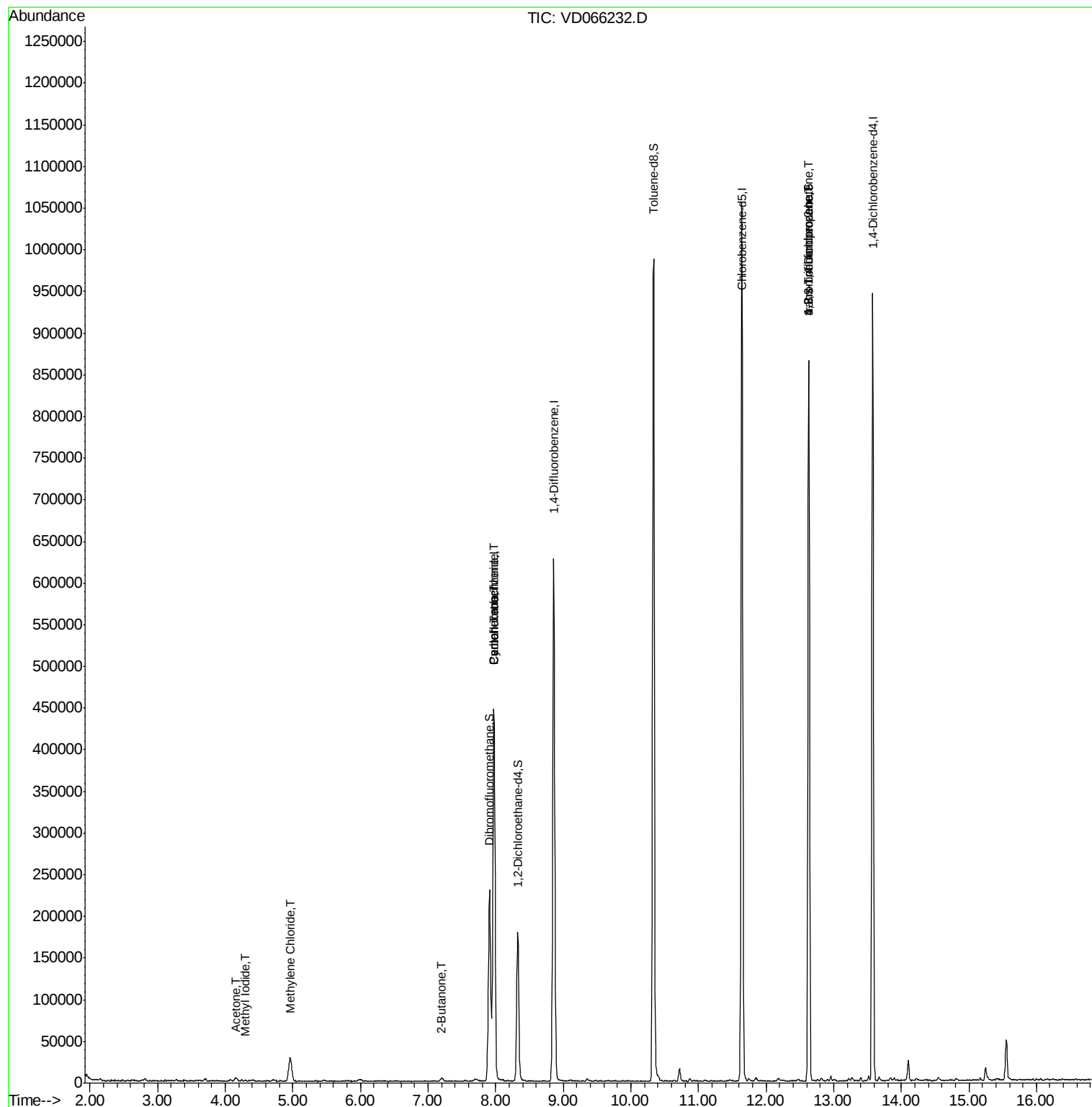
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 10) Methyl Iodide              | 4.30  | 142  | 1081     | 7.020     | ug/l # | 45     |
| 11) Tert butyl alcohol         | 5.22  | 59   | 182      | Below Cal | #      | 76     |
| 16) Acetone                    | 4.16  | 43   | 7838     | 13.050    | ug/l # | 85     |
| 20) Methylene Chloride         | 4.96  | 84   | 22094    | 1.920     | ug/l   | 94     |
| 25) 2-Butanone                 | 7.20  | 43   | 1597     | 1.808     | ug/l # | 47     |
| 31) Cyclohexane                | 7.98  | 56   | 7626     | 1.375     | ug/l # | 28     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 34894    | 5.974     | ug/l # | 14     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 141760   | 66.882    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 141760   | 147.846   | ug/l # | 13     |

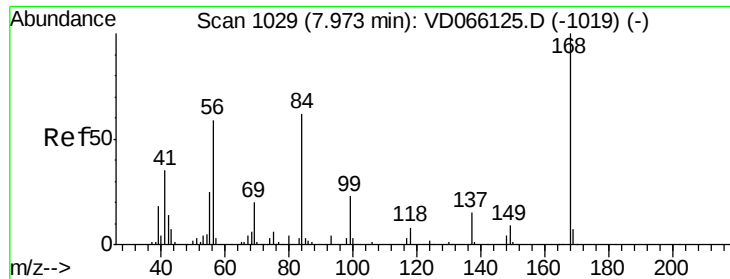
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD081420\  
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Quant Title : SW846 8260  
QLast Update : Wed Aug 05 13:49:25 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VD066232.D

Acq: 14 Aug 2020 13:12

Instrument :

MSVOA\_D

ClientSampleId :

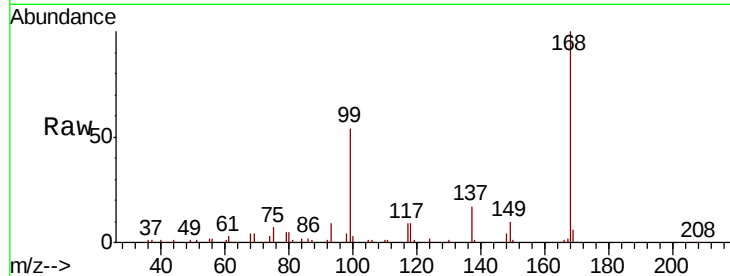
S413-K-SO-1-1.5-081220

Tot Ion:168 Resp: 354806

Ion Ratio Lower Upper

168 100

99 53.5 42.2 63.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.97

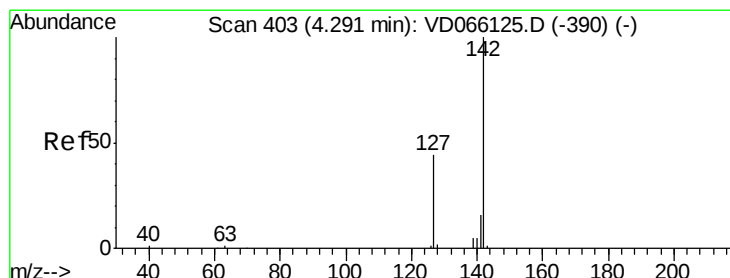
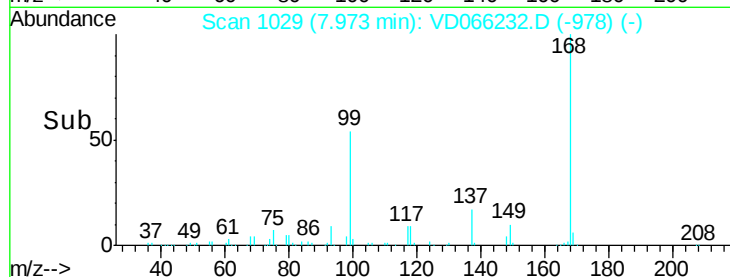
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 7.020 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.01 min

Lab File: VD066232.D

Acq: 14 Aug 2020 13:12

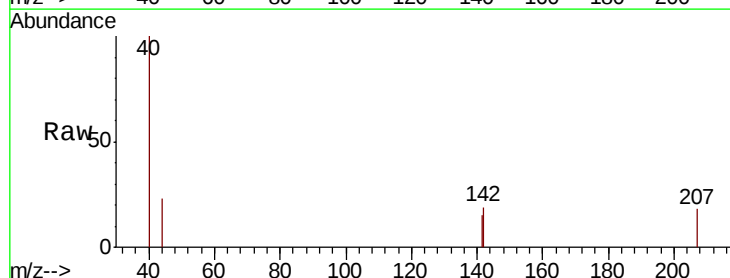
Tgt Ion:142 Resp: 1081

Ion Ratio Lower Upper

142 100

127 5.4 36.2 54.4#

141 0.0 12.6 18.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.30

800

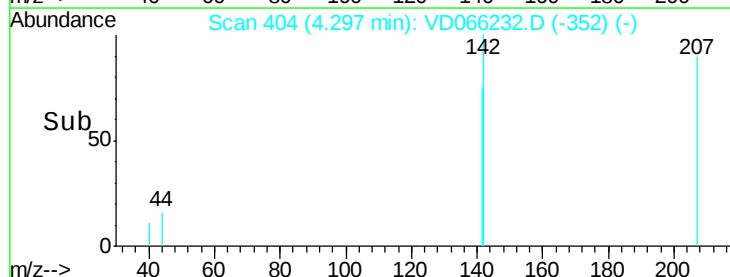
600

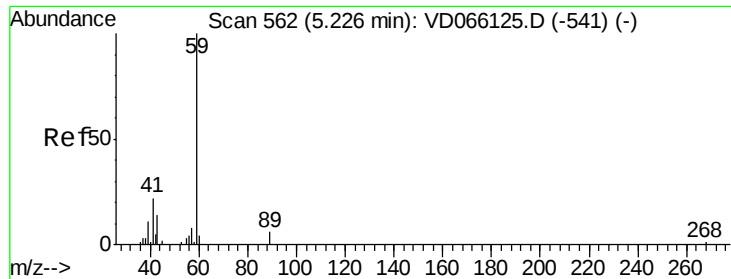
400

200

0

Time-->



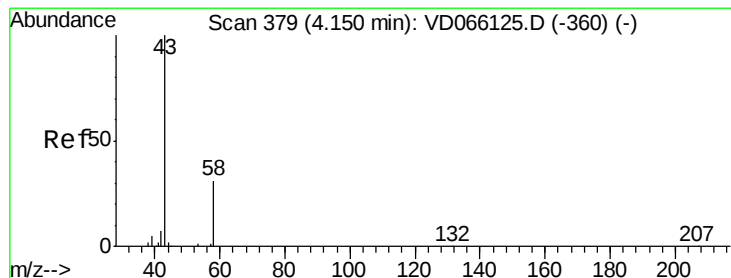
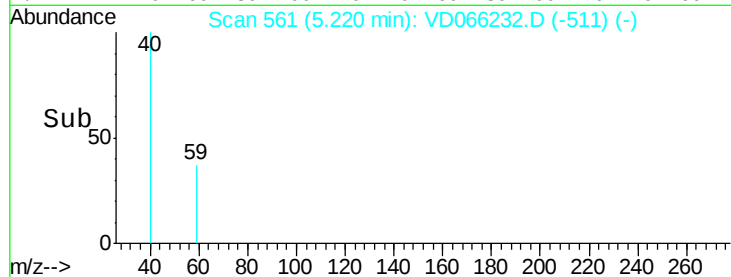
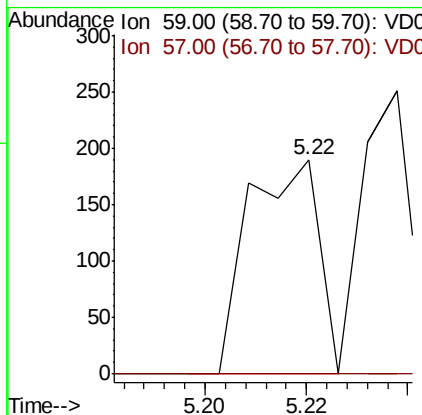
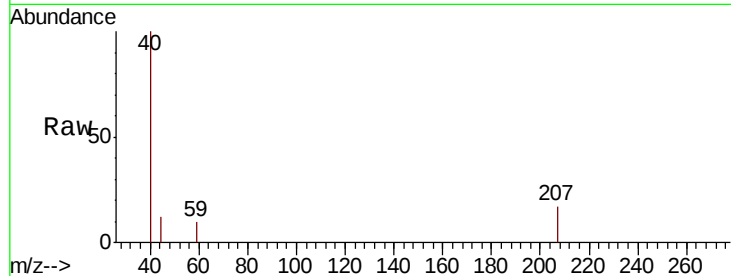


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.22 min Scan# 561  
 Delta R.T. -0.01 min  
 Lab File: VD066232.D  
 Acq: 14 Aug 2020 13:12

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 S413-K-SO-1-1.5-081220

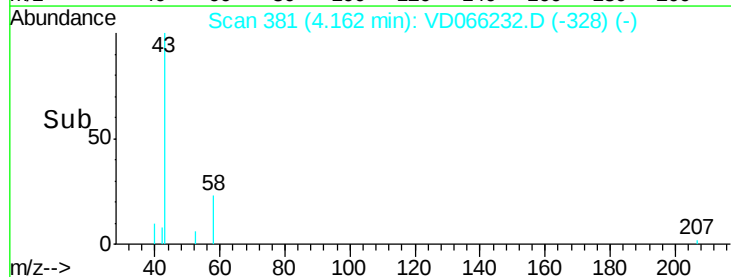
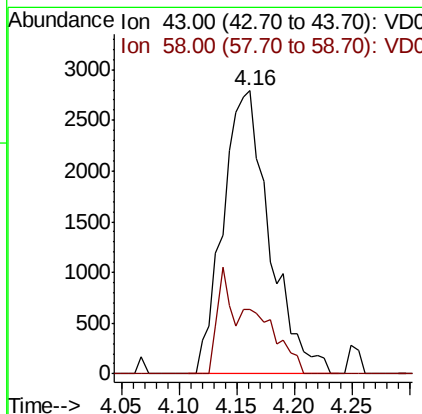
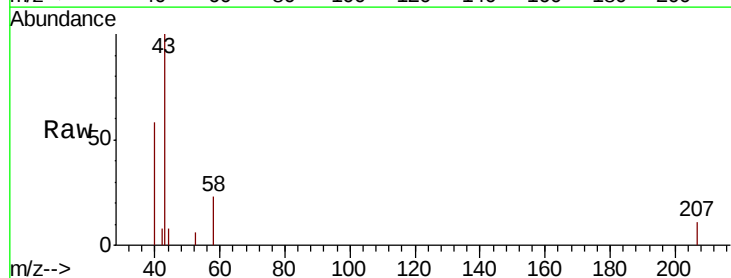
Tot Ion: 59 Resp: 182  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.0 10.4#

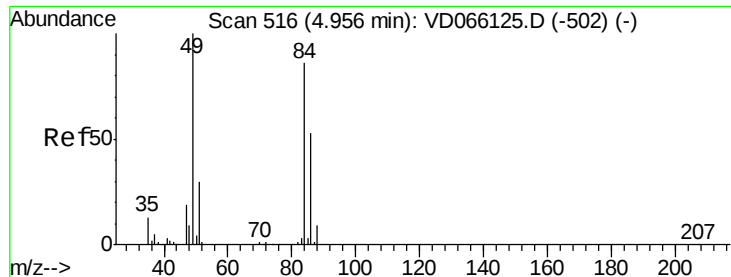


#16

Acetone  
 Concen: 13.050 ug/l  
 RT: 4.16 min Scan# 381  
 Delta R.T. 0.01 min  
 Lab File: VD066232.D  
 Acq: 14 Aug 2020 13:12

Tgt Ion: 43 Resp: 7838  
 Ion Ratio Lower Upper  
 43 100  
 58 22.8 24.7 37.1#

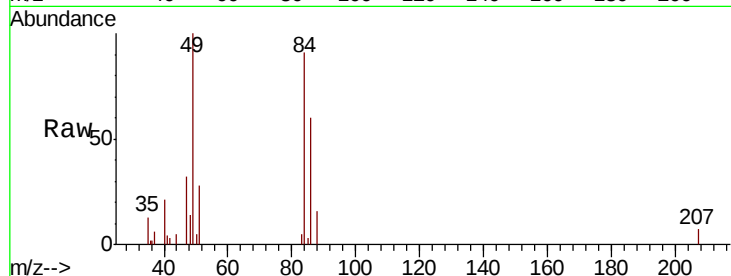




#20  
Methvlene Chloride  
Concen: 1.920 ug/l  
RT: 4.96 min Scan# 516  
Delta R.T. 0.00 min  
Lab File: VD066232.D  
Acq: 14 Aug 2020 13:12

Instrument :  
MSVOA\_D  
ClientSampleId :  
S413-K-SO-1-1.5-081220

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 22094 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 109.4 | 93.5  | 140.3 |
| 51       | 30.4  | 28.2  | 42.4  |
| 86       | 65.3  | 49.5  | 74.3  |



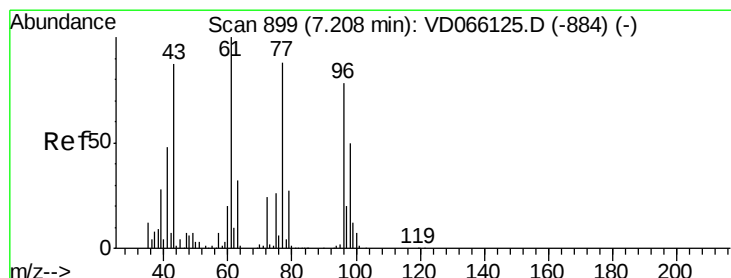
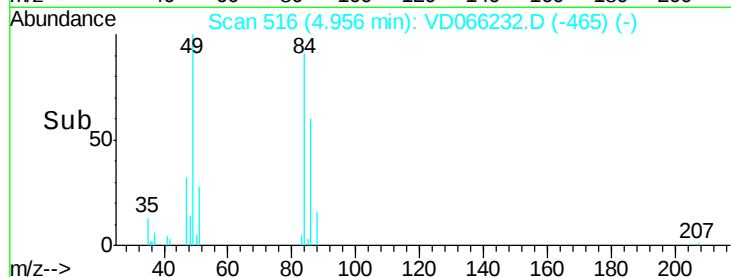
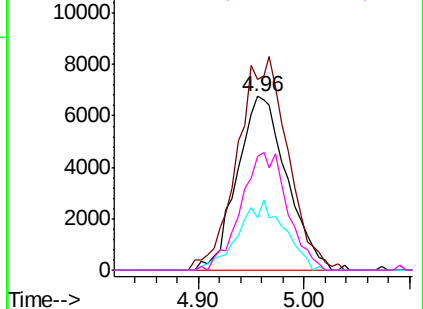
Abundance

Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

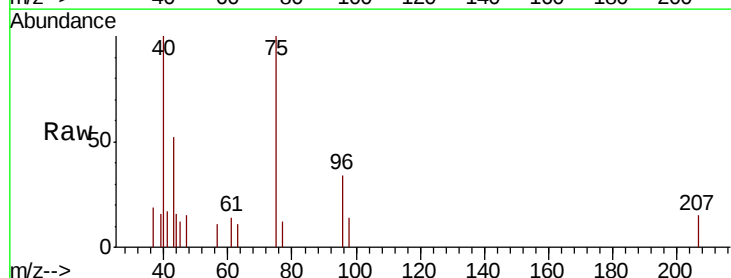
Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#25  
2-Butanone  
Concen: 1.808 ug/l  
RT: 7.20 min Scan# 898  
Delta R.T. -0.01 min  
Lab File: VD066232.D  
Acq: 14 Aug 2020 13:12

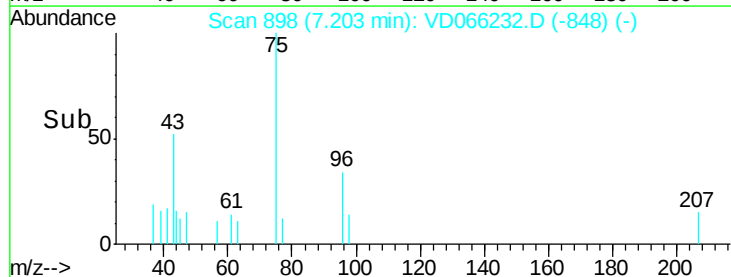
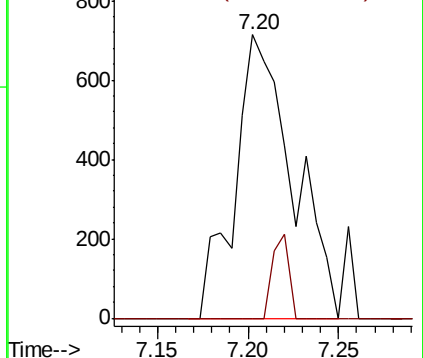
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1597  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 22.2  | 33.2# |

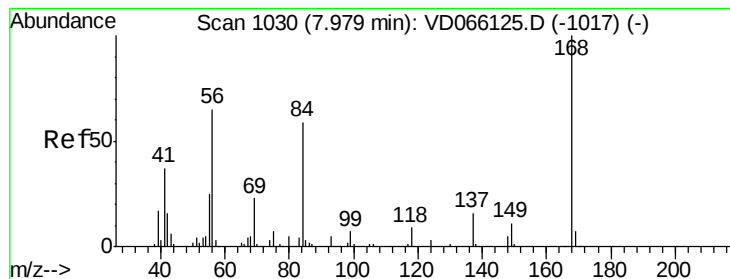


Abundance

Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC





#31

Cyclohexane

Concen: 1.375 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD066232.D

Acq: 14 Aug 2020 13:12

Instrument :

MSVOA\_D

ClientSampleId :

S413-K-SO-1-1.5-081220

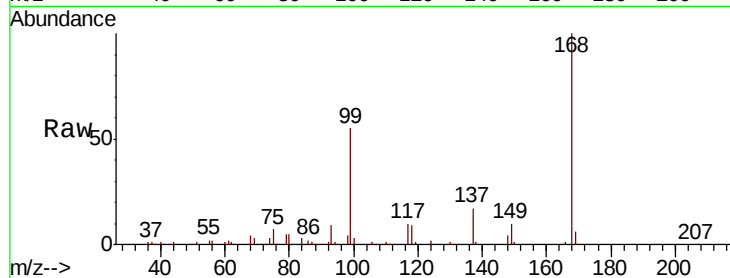
Tot Ion: 56 Resp: 7626

Ion Ratio Lower Upper

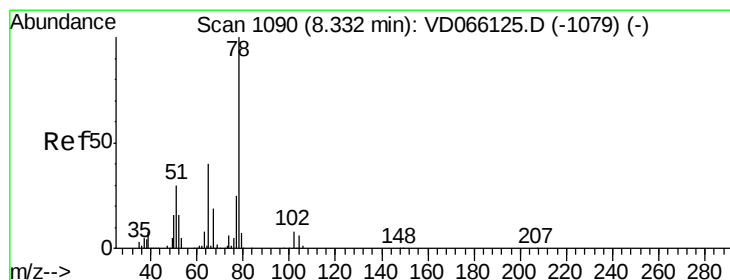
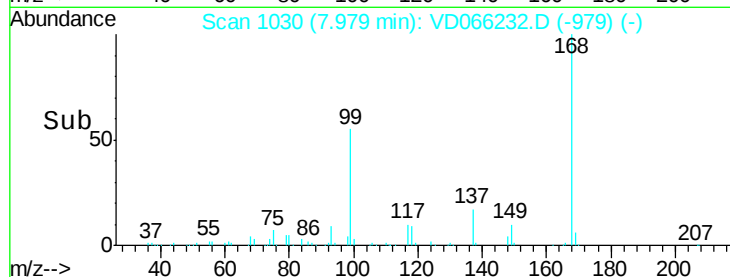
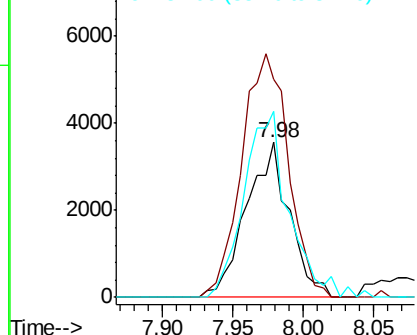
56 100

69 140.7 28.8 43.2#

84 119.8 73.0 109.6#



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



#33

1,2-Dichloroethane-d4

Concen: 44.778 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD066232.D

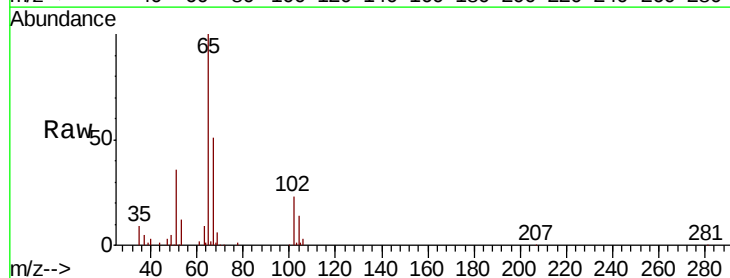
Acq: 14 Aug 2020 13:12

Tgt Ion: 65 Resp: 141741

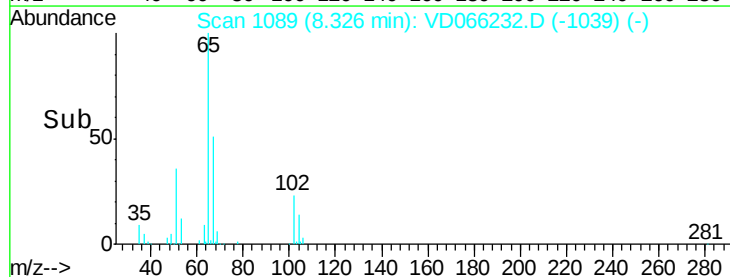
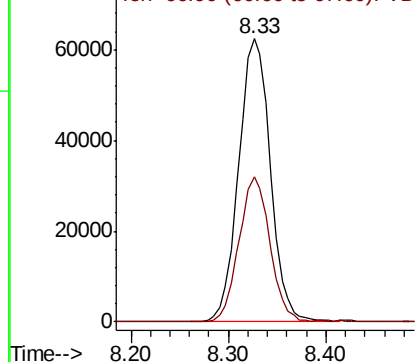
Ion Ratio Lower Upper

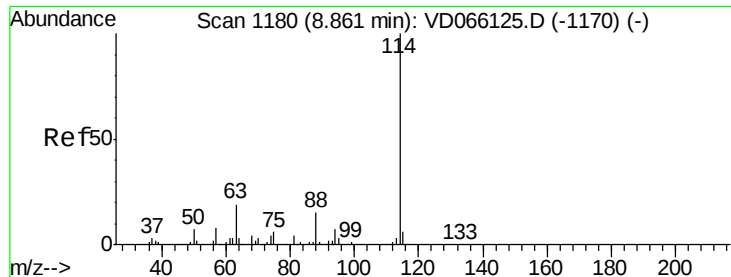
65 100

67 50.2 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VDC  
Ion 66.90 (66.60 to 67.60): VDC

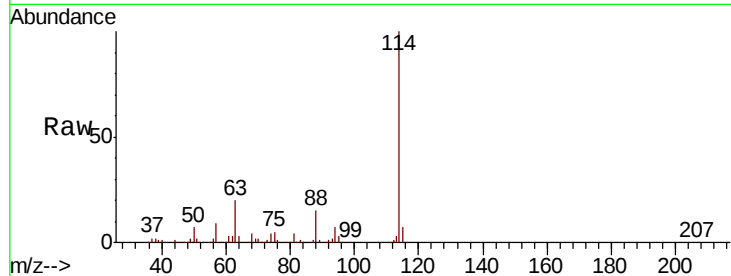




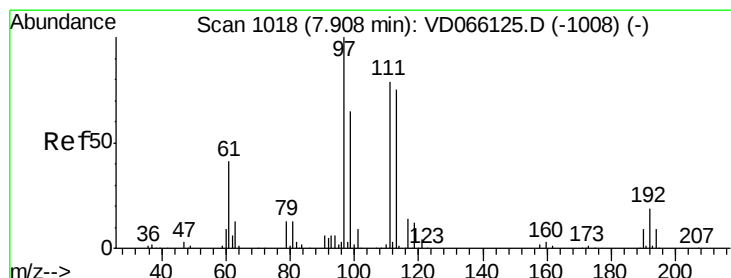
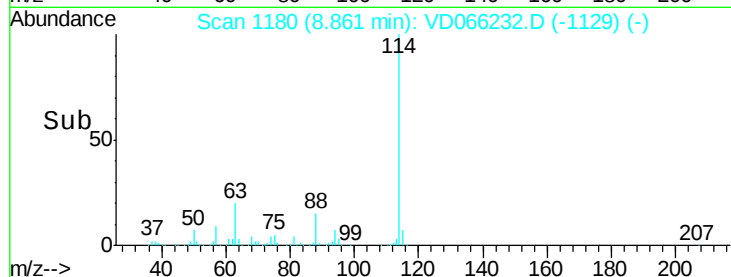
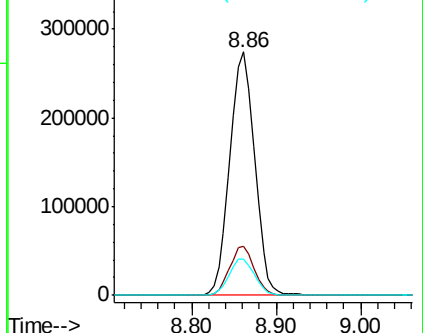
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1180  
 Delta R.T. 0.00 min  
 Lab File: VD066232.D  
 Acq: 14 Aug 2020 13:12

Instrument :  
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 S413-K-SO-1-1.5-081220

Tot Ion:114 Resp: 557404  
 Ion Ratio Lower Upper  
 114 100  
 63 20.1 0.0 38.6  
 88 15.0 0.0 30.0

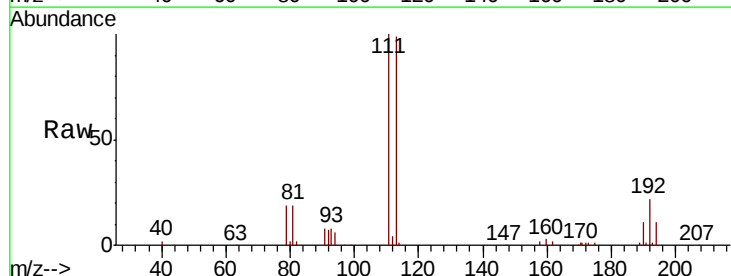


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

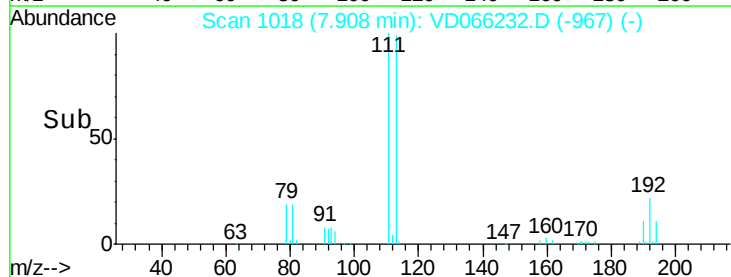
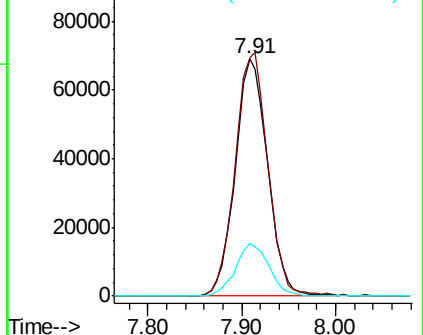


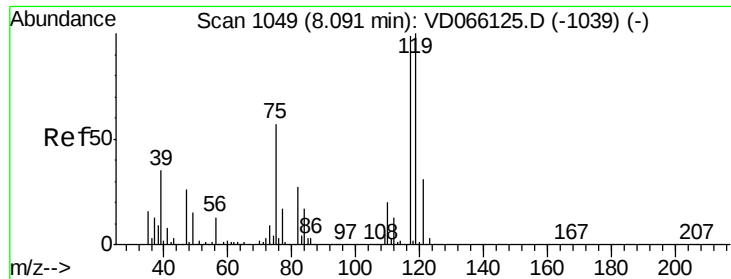
#35  
 Dibromofluoromethane  
 Concen: 46.875 ug/l  
 RT: 7.91 min Scan# 1018  
 Delta R.T. 0.00 min  
 Lab File: VD066232.D  
 Acq: 14 Aug 2020 13:12

Tgt Ion:113 Resp: 165519  
 Ion Ratio Lower Upper  
 113 100  
 111 103.3 80.7 121.1  
 192 22.7 18.4 27.6



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

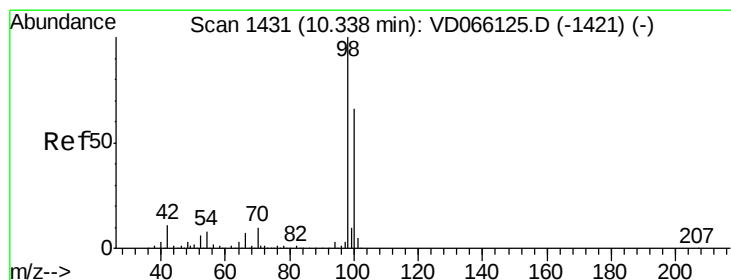
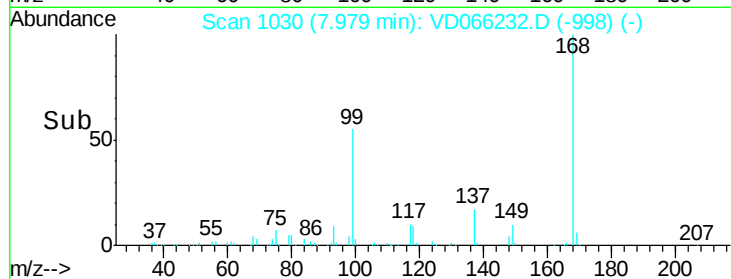
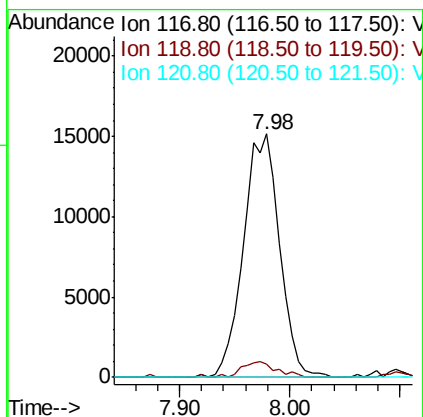
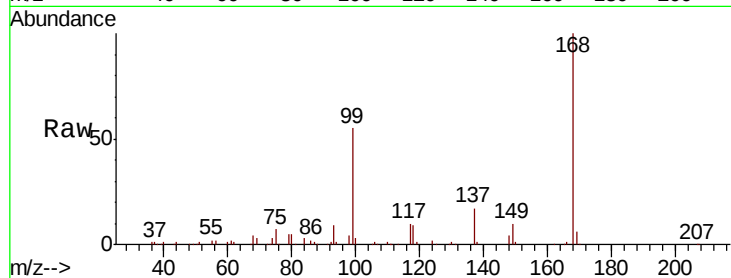




#38  
Carbon Tetrachloride  
Concen: 5.974 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.11 min  
Lab File: VD066232.D  
Acq: 14 Aug 2020 13:12

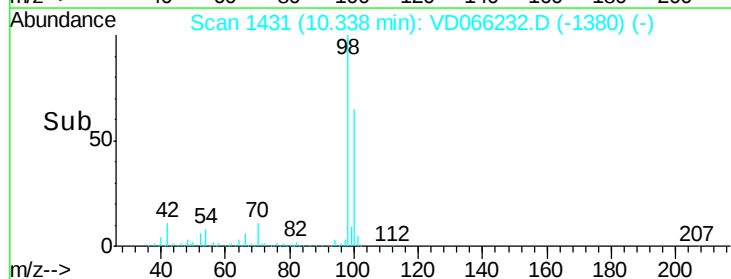
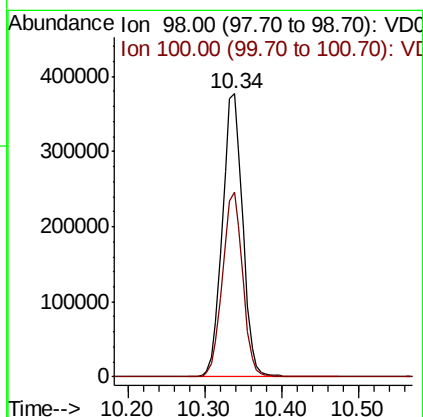
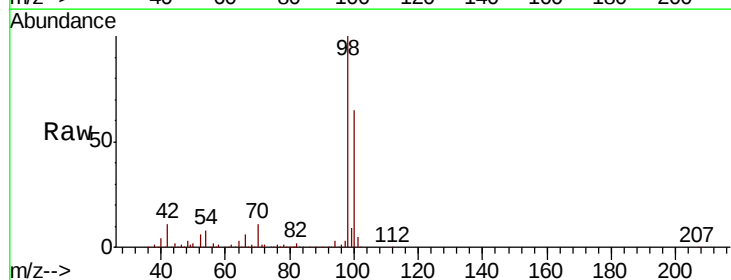
Instrument :  
MSVOA\_D  
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S413-K-SO-1-1.5-081220

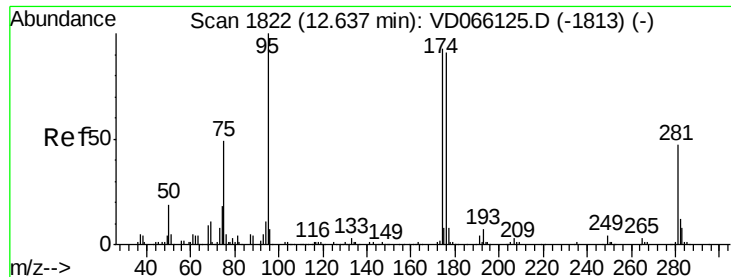
Tot Ion:117 Resp: 34894  
Ion Ratio Lower Upper  
117 100  
119 5.2 81.0 121.4#  
121 0.0 24.8 37.2#



#50  
Toluene-d8  
Concen: 53.129 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. 0.00 min  
Lab File: VD066232.D  
Acq: 14 Aug 2020 13:12

Tgt Ion: 98 Resp: 692304  
Ion Ratio Lower Upper  
98 100  
100 64.8 52.6 78.8





#62

4-Bromofluorobenzene

Concen: 58.103 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VD066232.D

Acq: 14 Aug 2020 13:12

Instrument :

MSVOA\_D

ClientSampleId :

S413-K-SO-1-1.5-081220

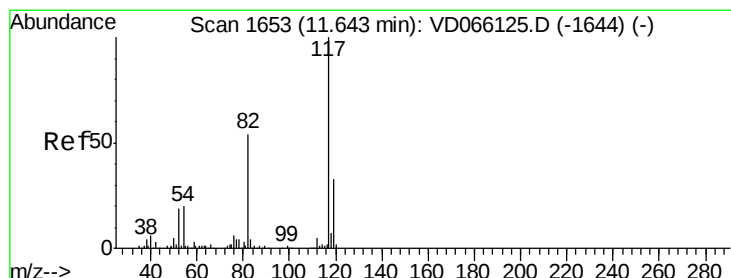
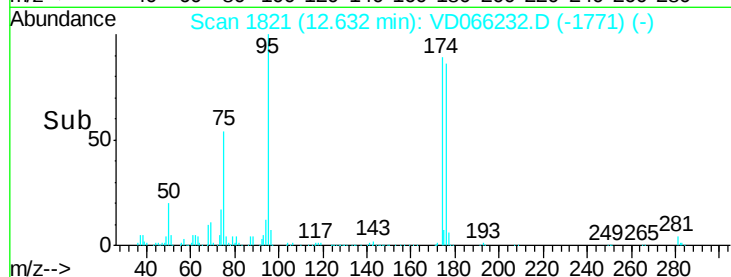
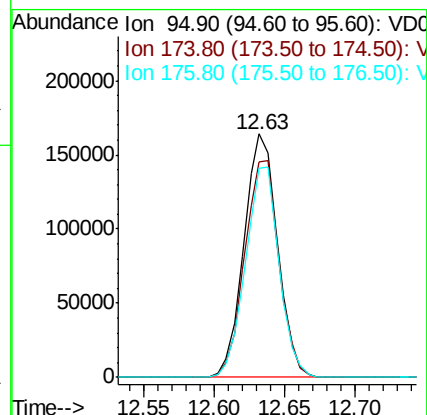
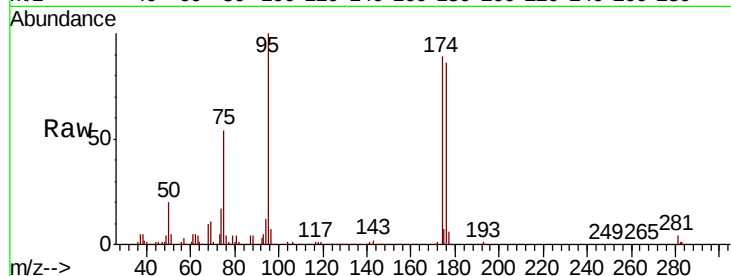
Tot Ion: 95 Resp: 272913

Ion Ratio Lower Upper

95 100

174 91.0 0.0 180.8

176 87.1 0.0 181.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VD066232.D

Acq: 14 Aug 2020 13:12

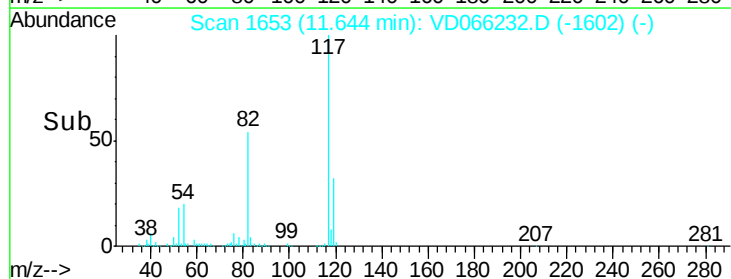
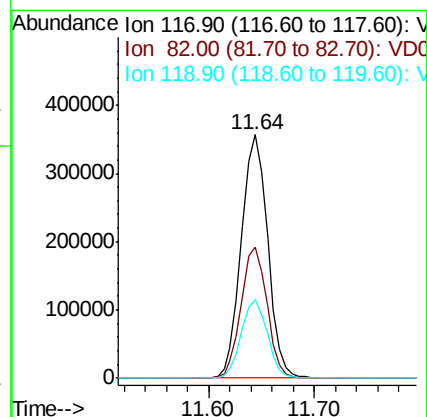
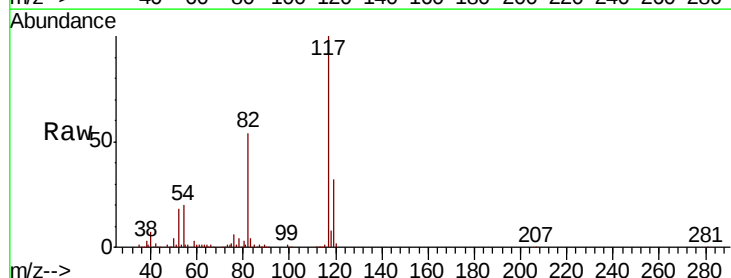
Tgt Ion: 117 Resp: 618171

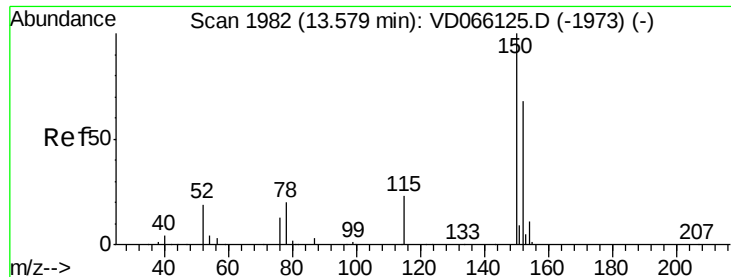
Ion Ratio Lower Upper

117 100

82 53.9 43.0 64.4

119 32.5 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD066232.D

Acq: 14 Aug 2020 13:12

Instrument :

MSVOA\_D

ClientSampleId :

S413-K-SO-1-1.5-081220

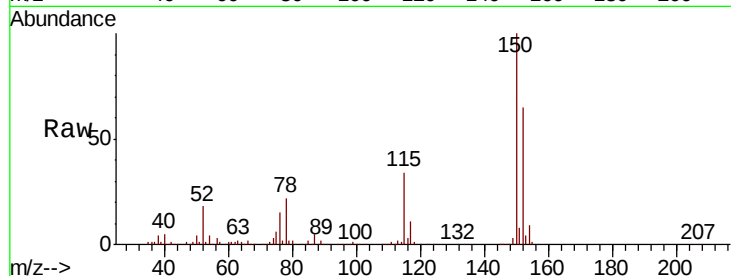
Tot Ion:152 Resp: 254165

Ion Ratio Lower Upper

152 100

115 56.5 28.0 83.9

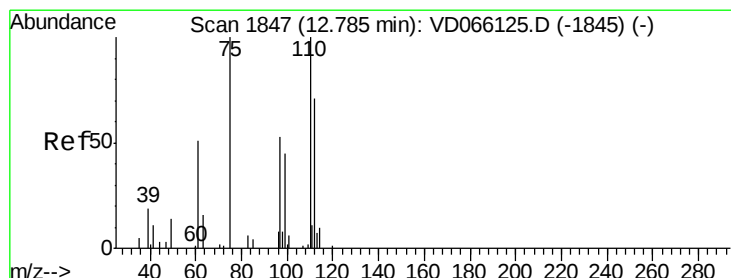
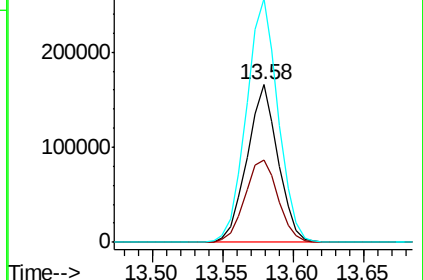
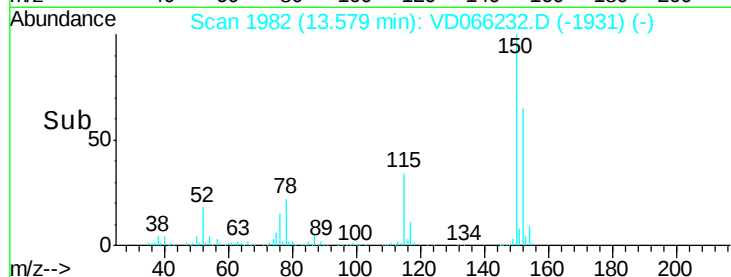
150 158.8 0.0 346.4



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: 66.882 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066232.D

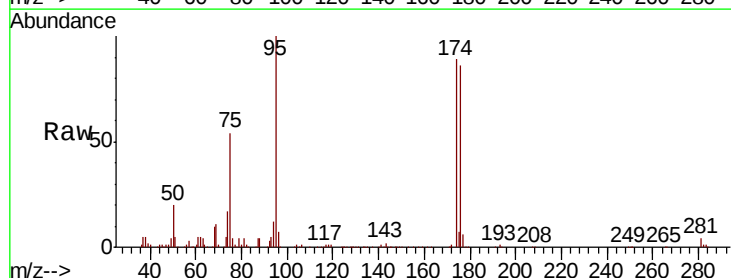
Acq: 14 Aug 2020 13:12

Tgt Ion: 75 Resp: 141760

Ion Ratio Lower Upper

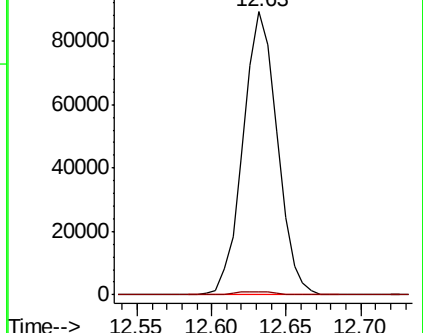
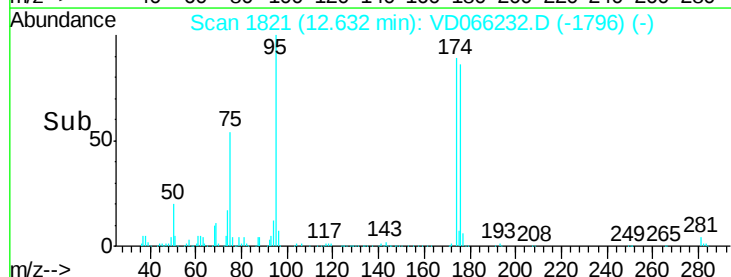
75 100

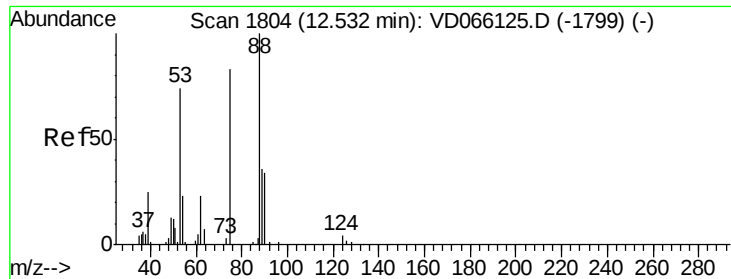
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 147.846 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066232.D

Acq: 14 Aug 2020 13:12

Instrument :

MSVOA\_D

ClientSampleId :

S413-K-SO-1-1.5-081220

Tot Ion: 75 Resp: 141760

Ion Ratio Lower Upper

75 100

53 0.0 73.4 110.2#

89 0.0 36.6 55.0#

