

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081920\  
 Data File : VD066326.D  
 Acq On : 19 Aug 2020 18:40  
 Operator : VA/SY  
 Sample : L3712-08  
 Misc : 9.42G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VB-27207

Quant Time: Aug 20 07:18:26 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  | 155431   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 255451   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 204513   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 71654    | 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   | 86306    | 62.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 124.48% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 89422    | 55.26 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.52% |          |
| 50) Toluene-d8              | 10.34 | 98   | 291643   | 48.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.68%  |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 81008    | 37.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 75.26%  |          |

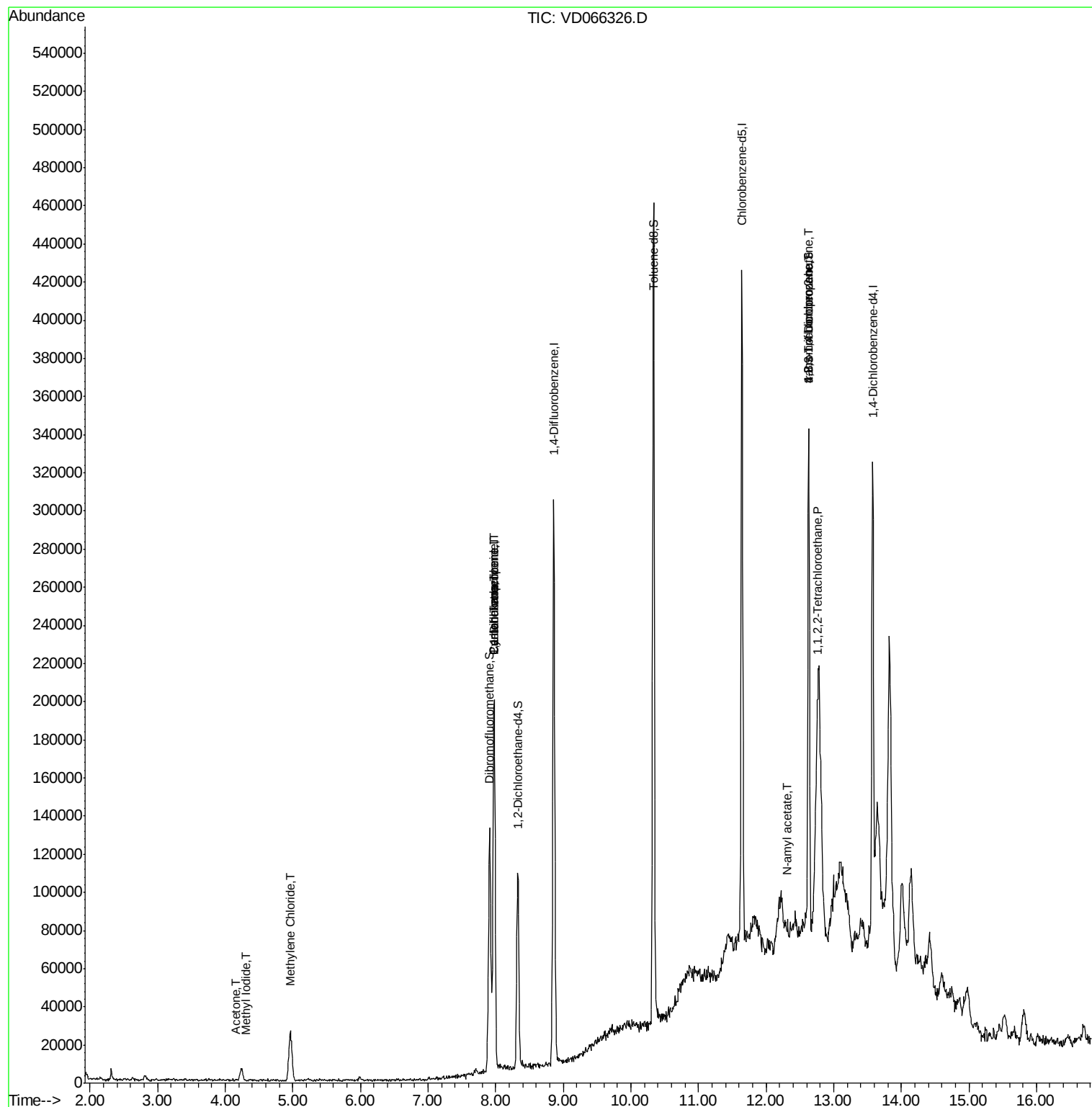
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 10) Methyl Iodide              | 4.31  | 142  | 59       | 6.750     | ug/l # | 39     |
| 11) Tert butyl alcohol         | 5.22  | 59   | 1098     | Below Cal | #      | 76     |
| 16) Acetone                    | 4.17  | 43   | 1037     | 3.941     | ug/l # | 44     |
| 20) Methylene Chloride         | 4.97  | 84   | 19602    | 9.163     | ug/l # | 91     |
| 31) Cyclohexane                | 7.98  | 56   | 3812     | 1.569     | ug/l # | 66     |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 11187    | 4.660     | ug/l # | 54     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 15372    | 5.742     | ug/l # | 16     |
| 74) N-amyl acetate             | 12.31 | 43   | 1109     | 1.053     | ug/l # | 56     |
| 75) 1,1,2,2-Tetrachloroethane  | 12.76 | 83   | 16461    | 20.183    | ug/l # | 28     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 42260    | 70.723    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 42260    | 156.337   | ug/l # | 14     |

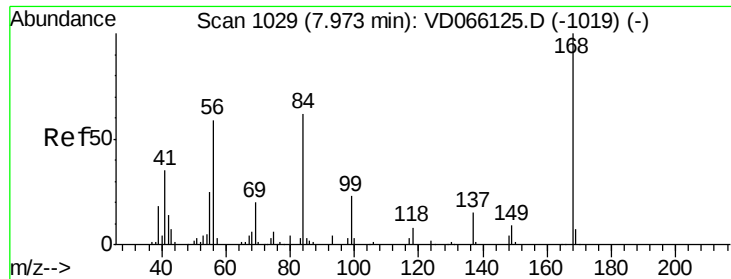
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD066326.D

Acq: 19 Aug 2020 18:40

Instrument :

MSVOA\_D

ClientSampleId :

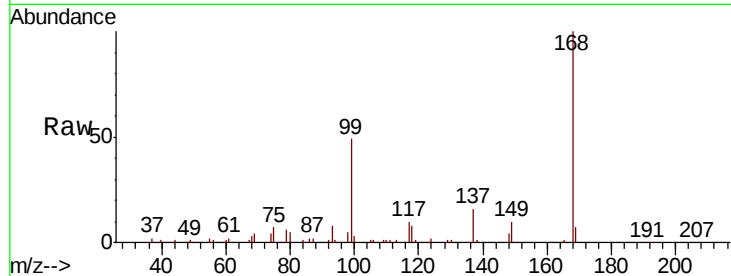
VB-27207

Tot Ion:168 Resp: 155431

Ion Ratio Lower Upper

168 100

99 49.5 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

80000

60000

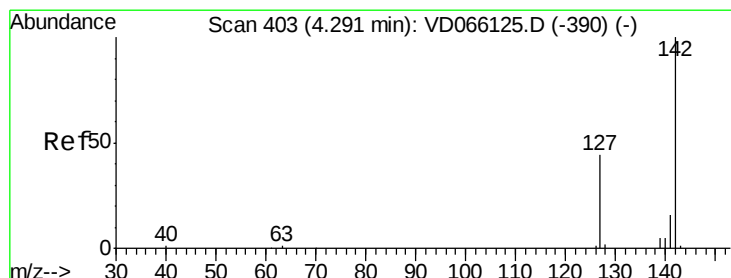
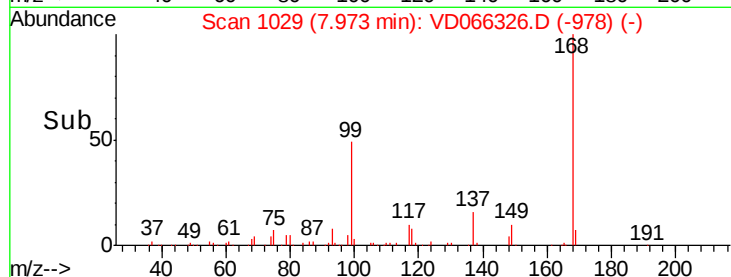
40000

20000

0

Time-->

7.90 8.00 8.10



#10

Methyl Iodide

Concen: 6.750 ug/l

RT: 4.31 min Scan# 406

Delta R.T. 0.02 min

Lab File: VD066326.D

Acq: 19 Aug 2020 18:40

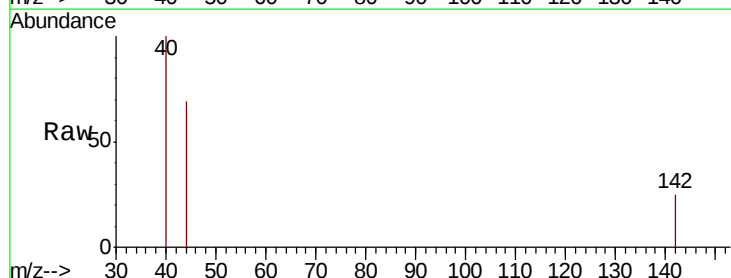
Tgt Ion:142 Resp: 59

Ion Ratio Lower Upper

142 100

127 0.0 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

4.31

200

150

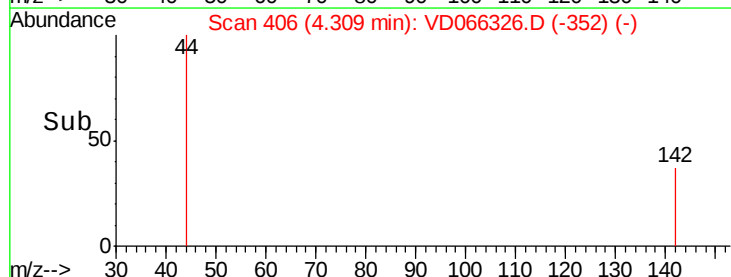
100

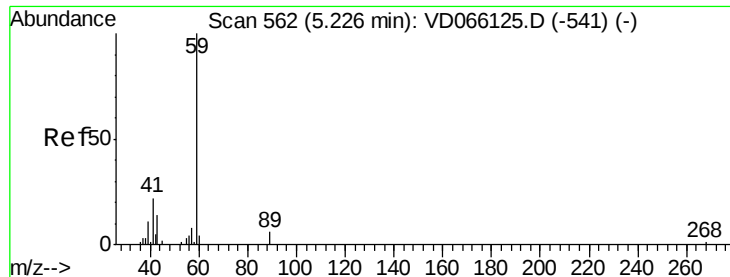
50

0

Time-->

4.29 4.30 4.31 4.32

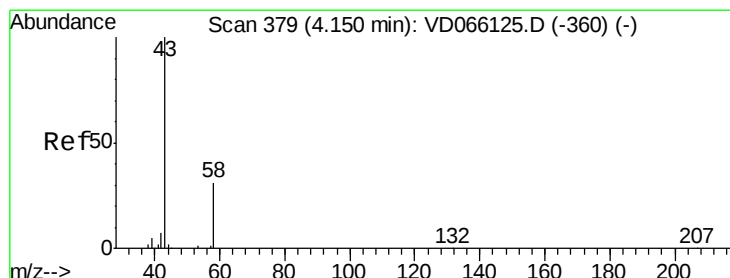
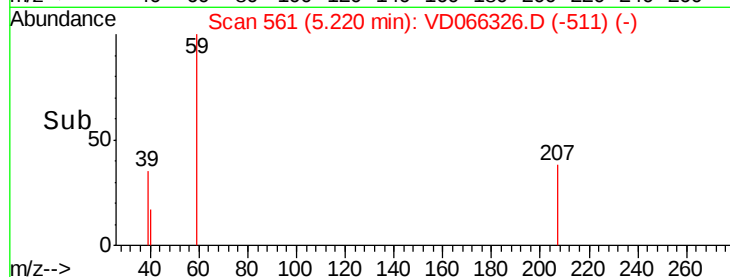
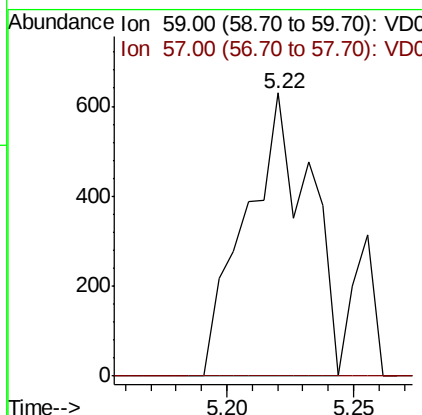
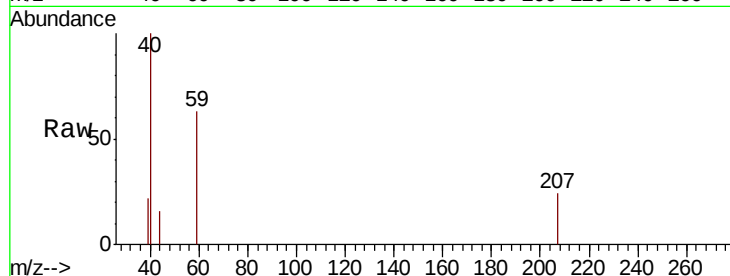




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.22 min Scan# 561  
Delta R.T. -0.01 min  
Lab File: VD066326.D  
Acq: 19 Aug 2020 18:40

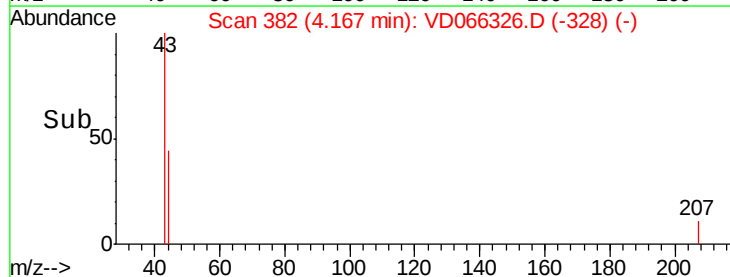
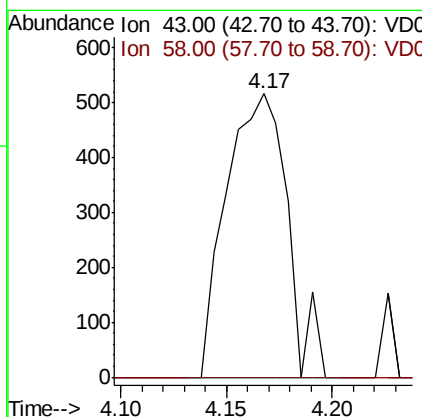
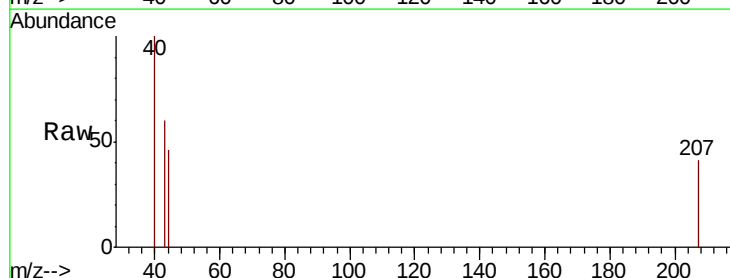
Instrument :  
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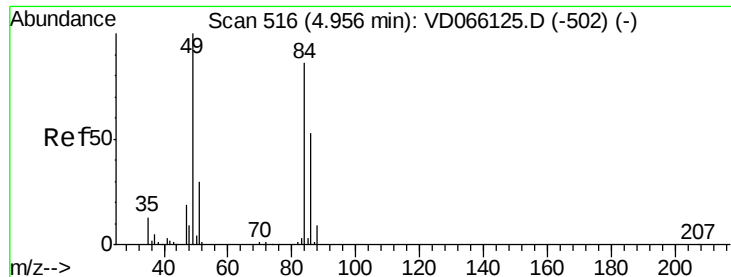
Tot Ion: 59 Resp: 1098  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.0 10.4#



#16  
Acetone  
Concen: 3.941 ug/l  
RT: 4.17 min Scan# 382  
Delta R.T. 0.02 min  
Lab File: VD066326.D  
Acq: 19 Aug 2020 18:40

Tgt Ion: 43 Resp: 1037  
Ion Ratio Lower Upper  
43 100  
58 0.0 24.7 37.1#





#20

Methvlene Chloride

Concen: 9.163 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD066326.D

Acq: 19 Aug 2020 18:40

Instrument :

MSVOA\_D

ClientSampleId :

VB-27207

Tot Ion: 84 Resp: 19602

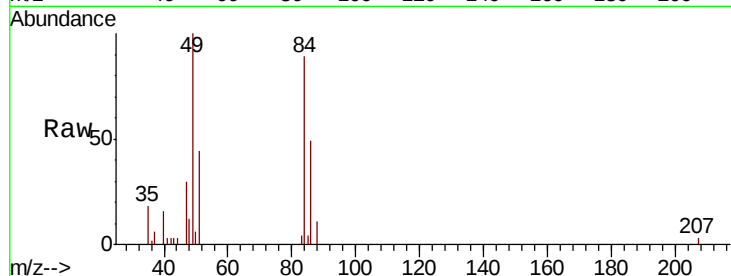
Ion Ratio Lower Upper

84 100

49 112.0 93.5 140.3

51 49.6 28.2 42.4#

86 54.4 49.5 74.3

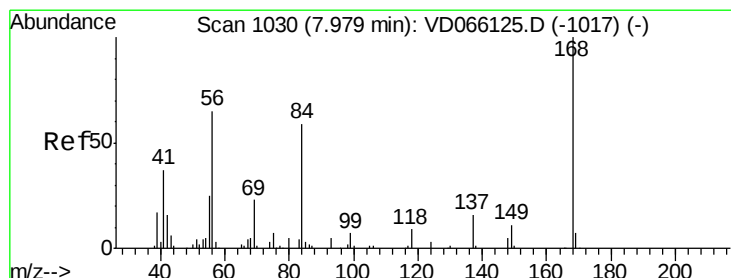
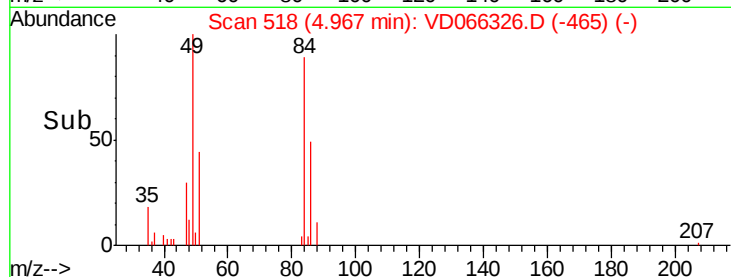
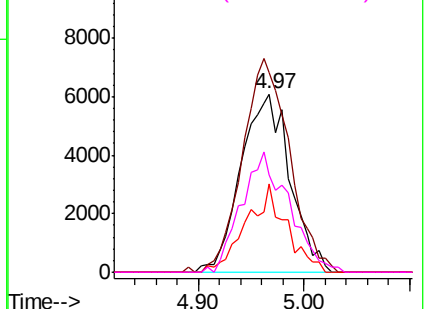


Abundance Ion 83.90 (83.60 to 84.60): VDC

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



#31

Cyclohexane

Concen: 1.569 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD066326.D

Acq: 19 Aug 2020 18:40

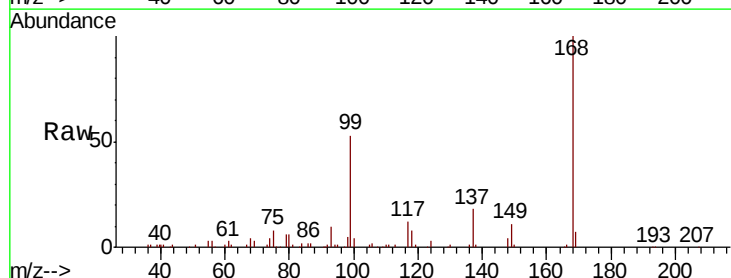
Tgt Ion: 56 Resp: 3812

Ion Ratio Lower Upper

56 100

69 102.4 28.8 43.2#

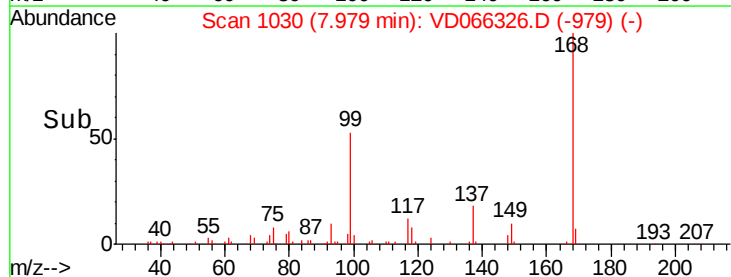
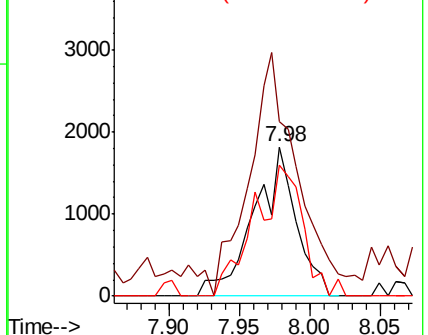
84 88.0 73.0 109.6

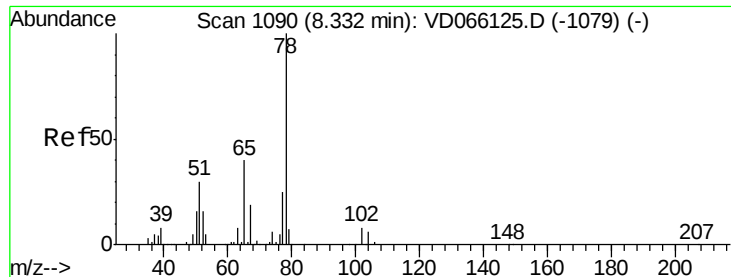


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

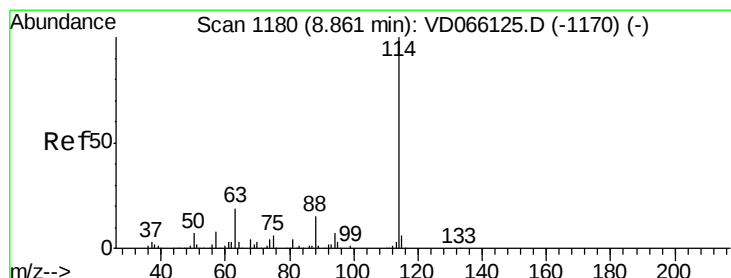
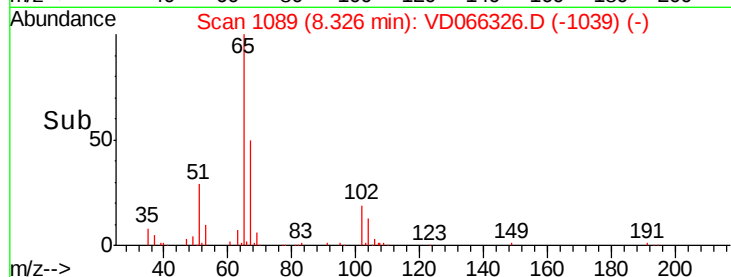
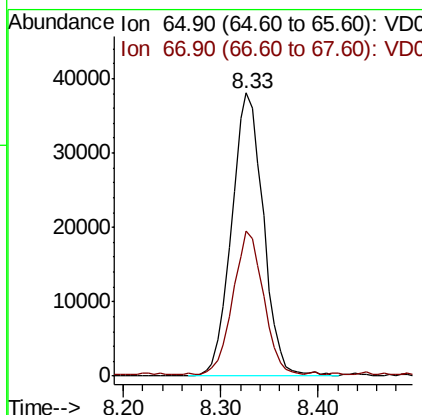
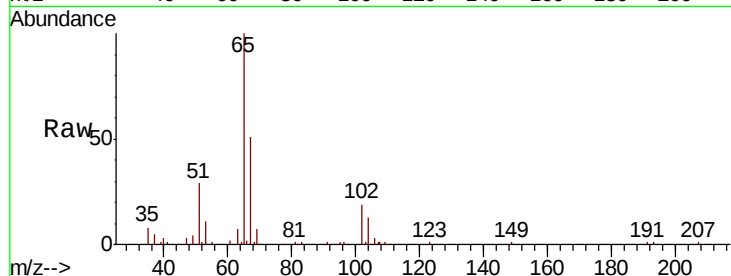




#33  
 1,2-Dichloroethane-d4  
 Concen: 62.239 ug/l  
 RT: 8.33 min Scan# 1089  
 Delta R.T. -0.01 min  
 Lab File: VD066326.D  
 Acq: 19 Aug 2020 18:40

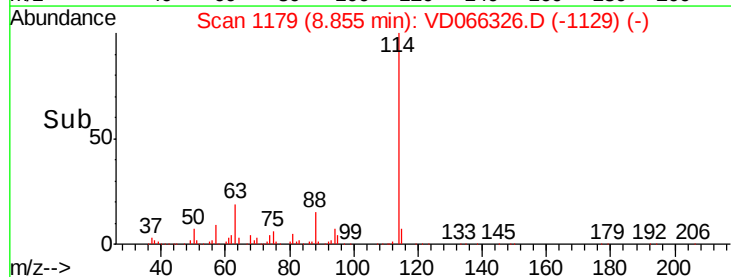
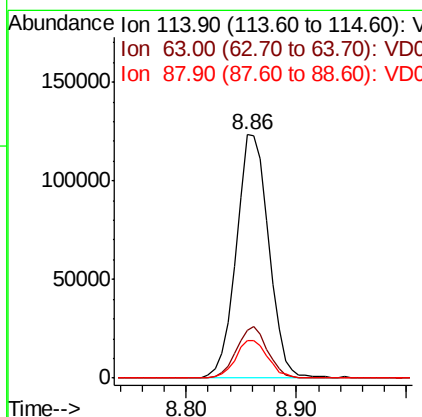
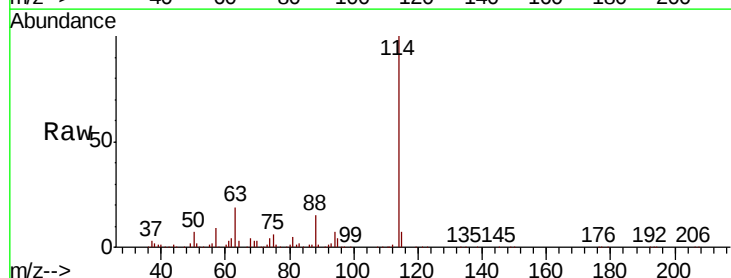
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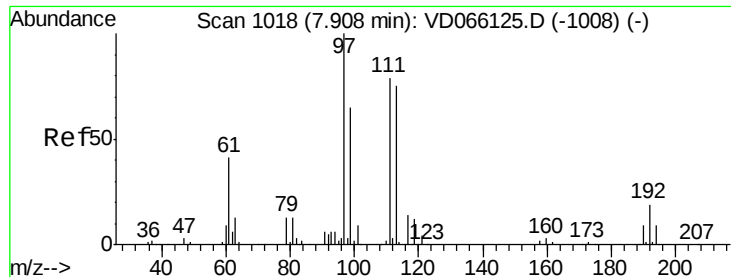
Tot Ion: 65 Resp: 86306  
 Ion Ratio Lower Upper  
 65 100  
 67 48.9 0.0 104.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1179  
 Delta R.T. -0.01 min  
 Lab File: VD066326.D  
 Acq: 19 Aug 2020 18:40

Tgt Ion: 114 Resp: 255451  
 Ion Ratio Lower Upper  
 114 100  
 63 19.5 0.0 38.6  
 88 15.2 0.0 30.0

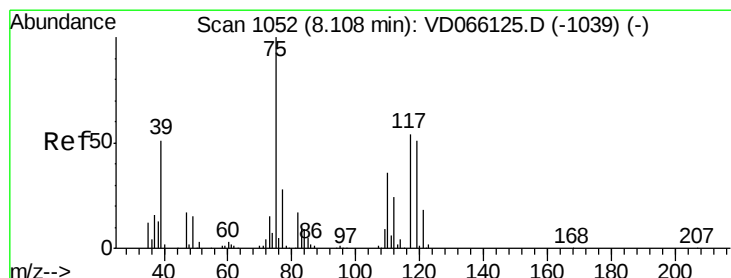
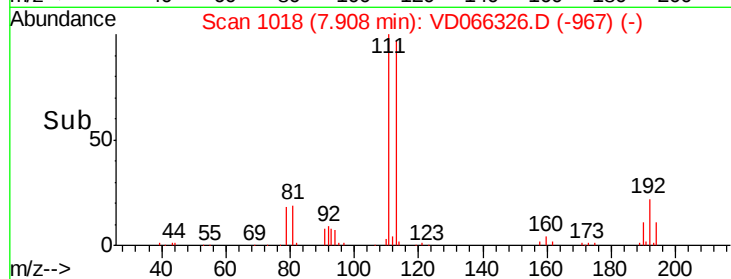
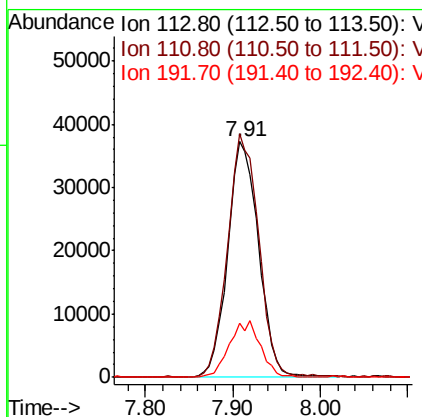
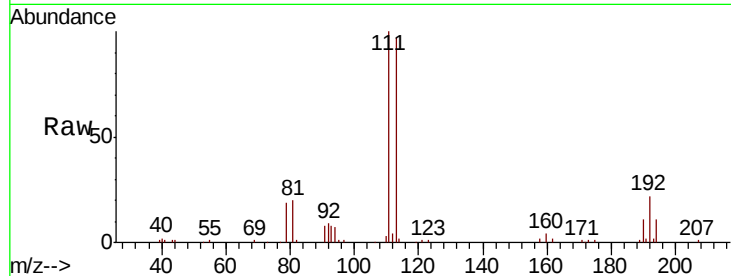




#35  
 Dibromofluoromethane  
 Concen: 55.258 ug/l  
 RT: 7.91 min Scan# 1018  
 Delta R.T. 0.00 min  
 Lab File: VD066326.D  
 Acq: 19 Aug 2020 18:40

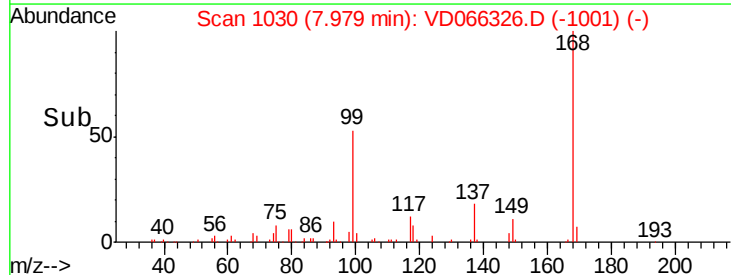
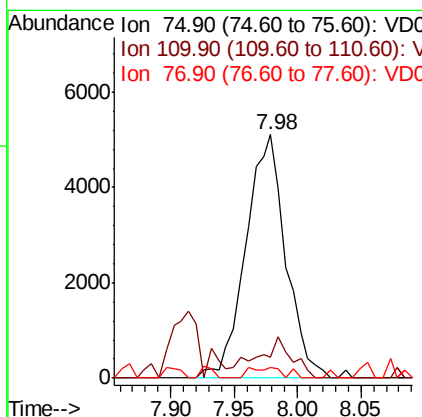
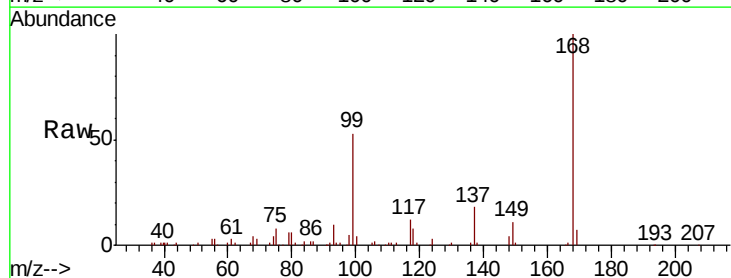
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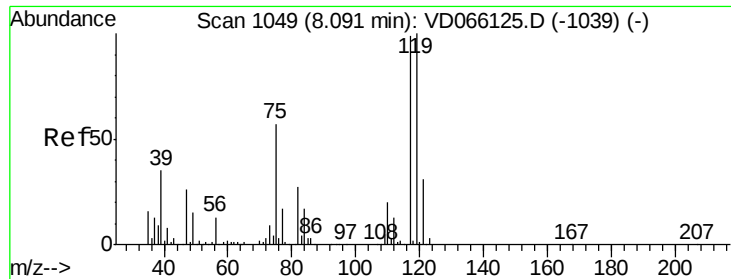
Tot Ion:113 Resp: 89422  
 Ion Ratio Lower Upper  
 113 100  
 111 104.3 80.7 121.1  
 192 23.8 18.4 27.6



#36  
 1,1-Dichloropropene  
 Concen: 4.660 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.13 min  
 Lab File: VD066326.D  
 Acq: 19 Aug 2020 18:40

Tgt Ion: 75 Resp: 11187  
 Ion Ratio Lower Upper  
 75 100  
 110 14.8 18.8 56.3#  
 77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 5.742 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066326.D

Acq: 19 Aug 2020 18:40

Instrument :

MSVOA\_D

ClientSampleId :

VB-27207

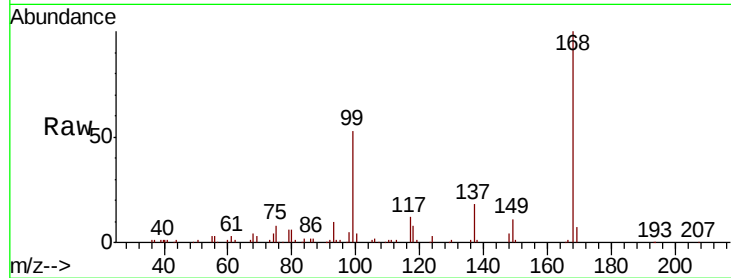
Tot Ion:117 Resp: 15372

Ion Ratio Lower Upper

117 100

119 7.5 81.0 121.4#

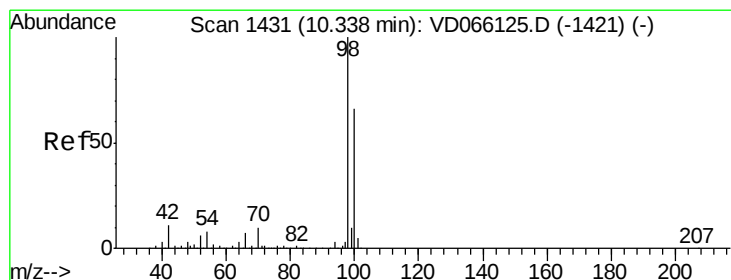
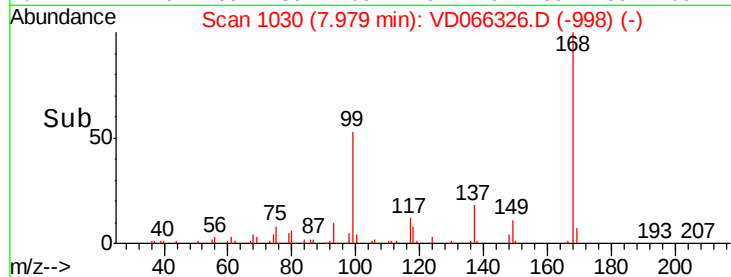
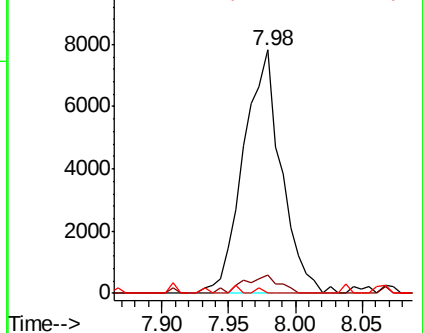
121 0.0 24.8 37.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 48.837 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066326.D

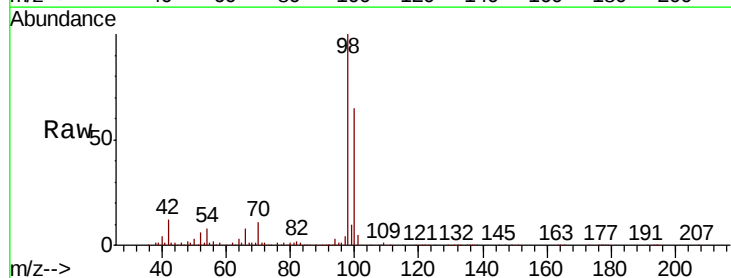
Acq: 19 Aug 2020 18:40

Tgt Ion: 98 Resp: 291643

Ion Ratio Lower Upper

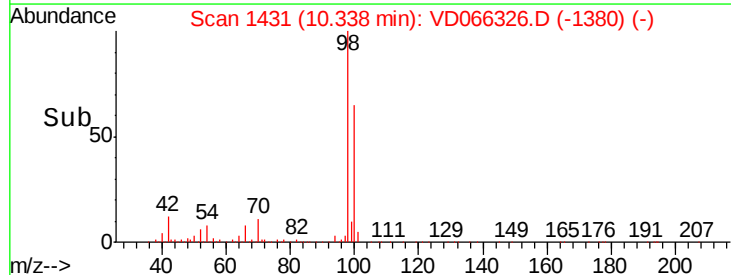
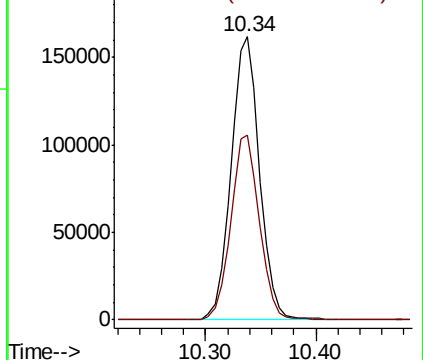
98 100

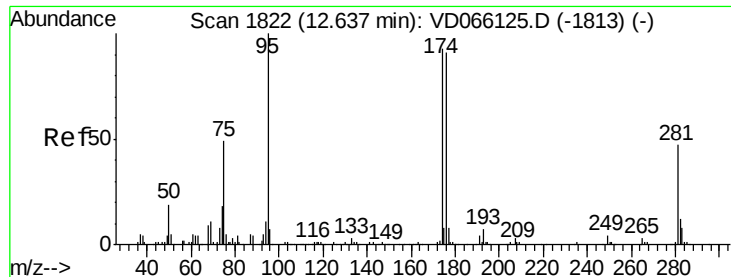
100 65.6 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 37.633 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VD066326.D

Acq: 19 Aug 2020 18:40

Instrument :

MSVOA\_D

ClientSampleId :

VB-27207

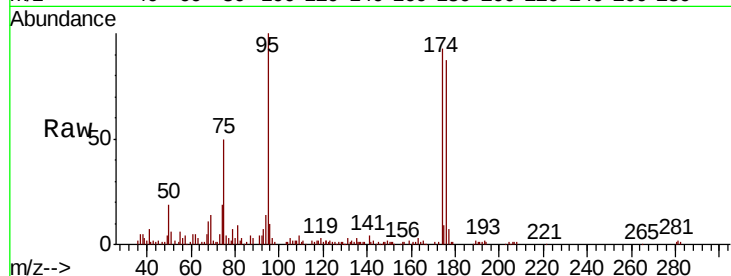
Tot Ion: 95 Resp: 81008

Ion Ratio Lower Upper

95 100

174 101.5 0.0 180.8

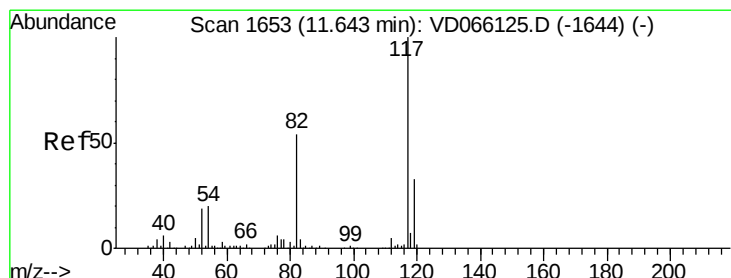
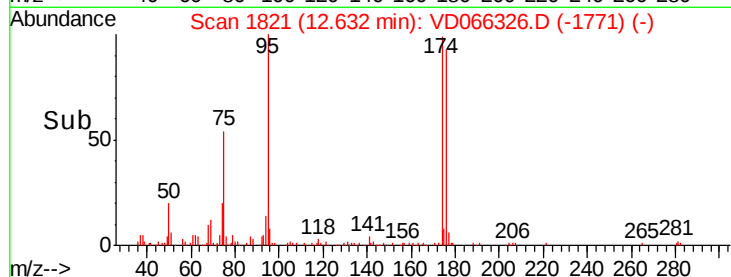
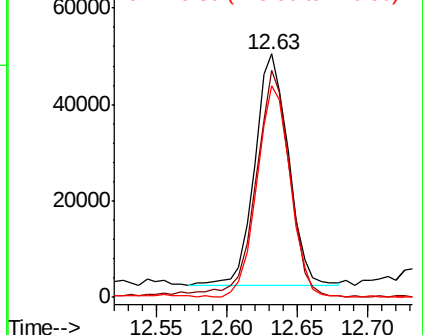
176 90.7 0.0 181.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VD066326.D

Acq: 19 Aug 2020 18:40

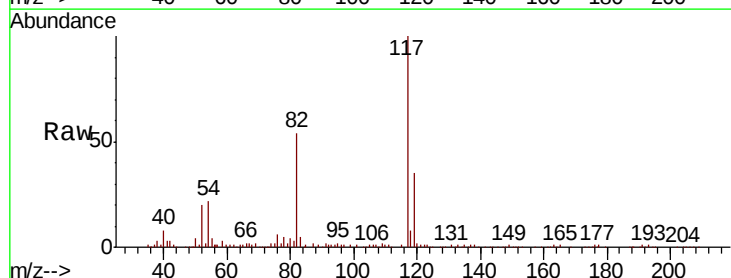
Tgt Ion: 117 Resp: 204513

Ion Ratio Lower Upper

117 100

82 53.6 43.0 64.4

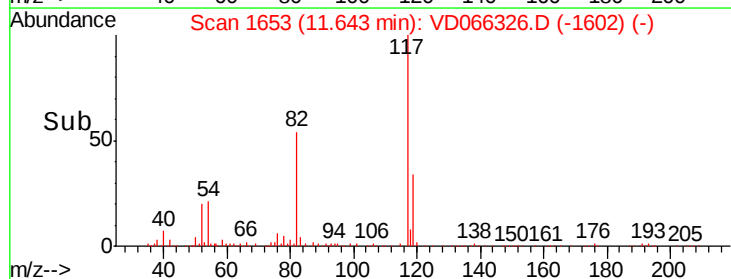
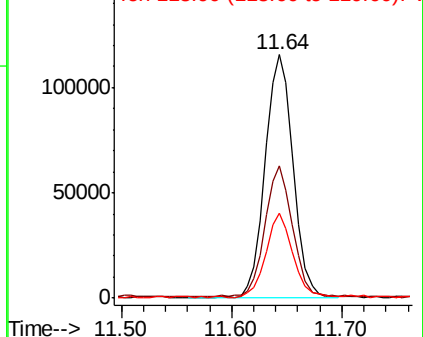
119 34.3 26.1 39.1

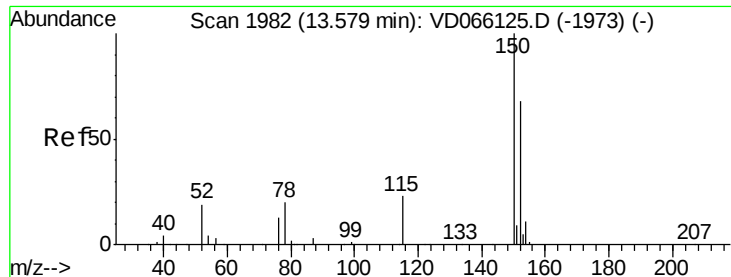


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD066326.D

Acq: 19 Aug 2020 18:40

Instrument :

MSVOA\_D

ClientSampleId :

VB-27207

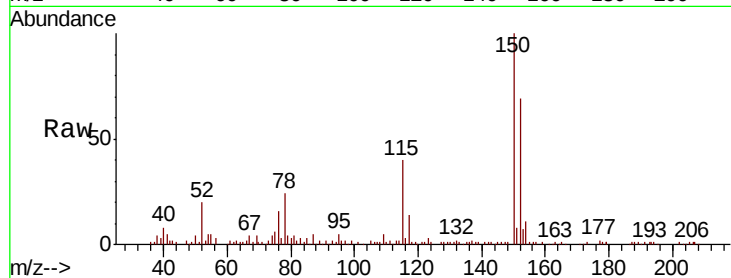
Tot Ion:152 Resp: 71654

Ion Ratio Lower Upper

152 100

115 59.7 28.0 83.9

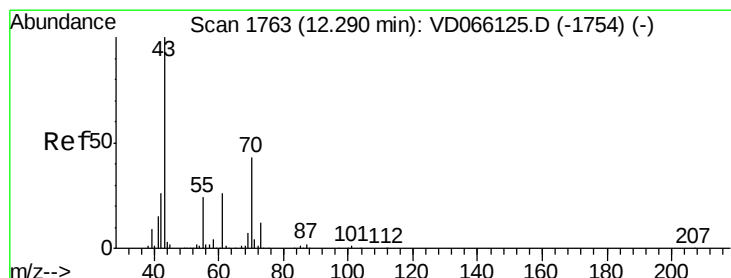
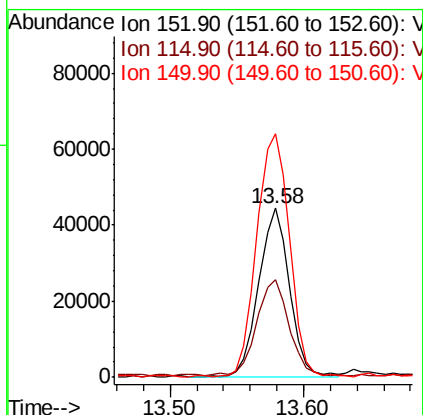
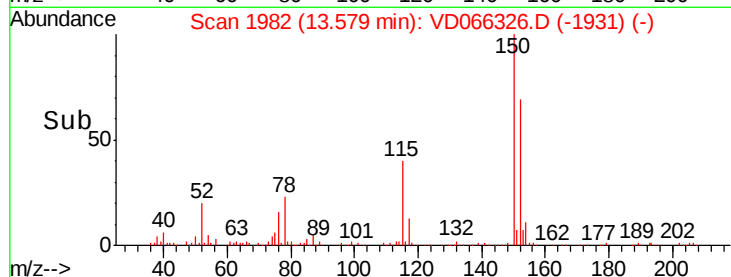
150 149.8 0.0 346.4



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



#74

N-ethyl acetate

Concen: 1.053 ug/l

RT: 12.31 min Scan# 1767

Delta R.T. 0.02 min

Lab File: VD066326.D

Acq: 19 Aug 2020 18:40

Tgt Ion: 43 Resp: 1109

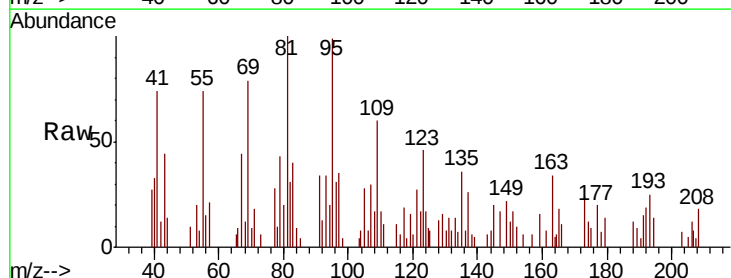
Ion Ratio Lower Upper

43 100

70 19.3 34.9 52.3#

55 0.0 19.2 28.8#

61 0.0 19.7 29.5#

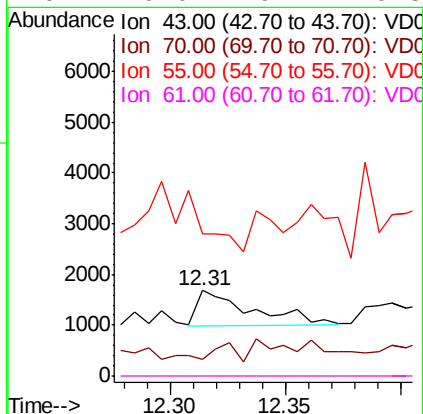
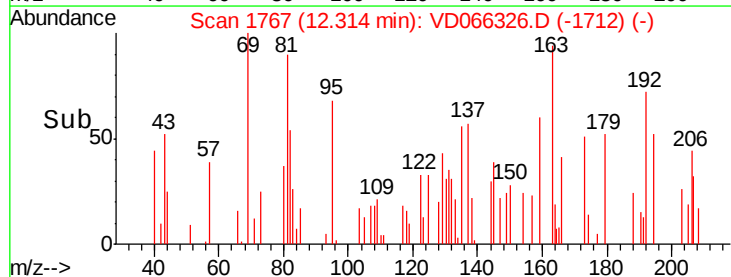


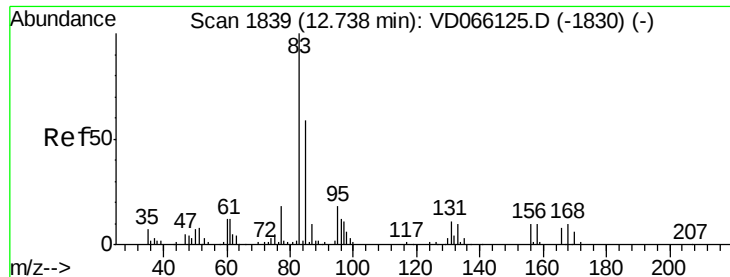
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 20.183 ug/l

RT: 12.76 min Scan# 1842

Delta R.T. 0.02 min

Lab File: VD066326.D

Acq: 19 Aug 2020 18:40

Instrument :

MSVOA\_D

ClientSampleId :

VB-27207

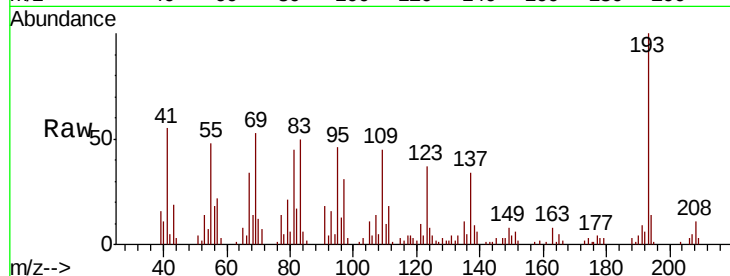
Tot Ion: 83 Resp: 16461

Ion Ratio Lower Upper

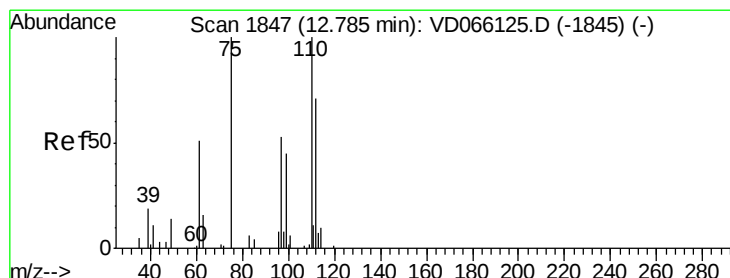
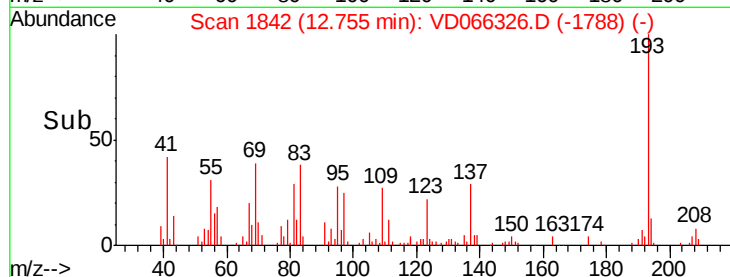
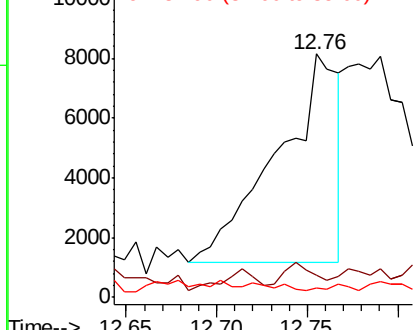
83 100

131 4.9 6.2 18.6#

85 0.0 32.4 97.2#



Abundance Ion 82.90 (82.60 to 83.60): VDC  
Ion 130.80 (130.50 to 131.50): VDC  
Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 70.723 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066326.D

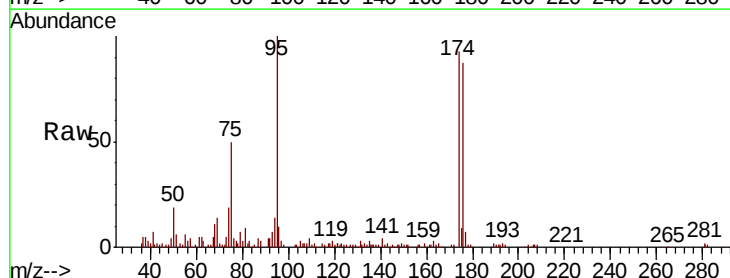
Acq: 19 Aug 2020 18:40

Tgt Ion: 75 Resp: 42260

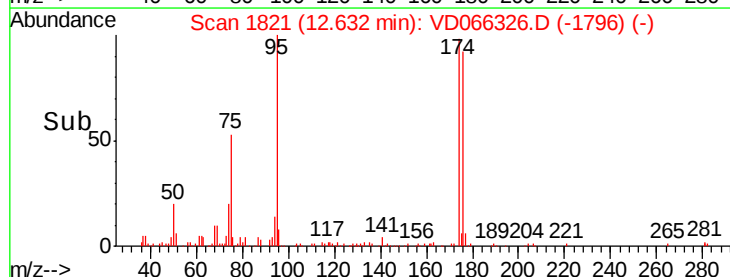
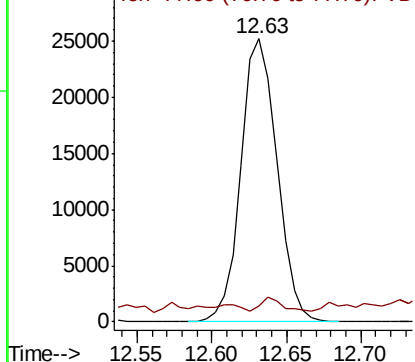
Ion Ratio Lower Upper

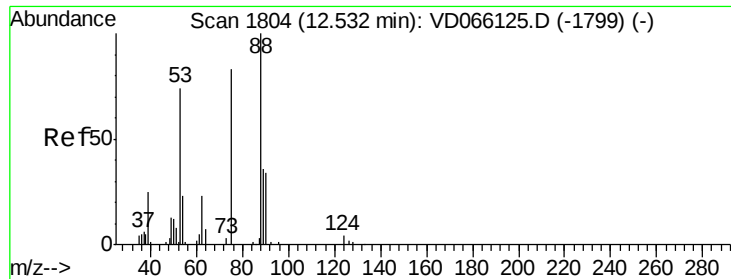
75 100

77 2.6 0.0 0.0#



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





#81

trans-1,4-Dichloro-2-butene

Concen: 156.337 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066326.D

Acq: 19 Aug 2020 18:40

Instrument :

MSVOA\_D

ClientSampleId :

VB-27207

Tot Ion: 75 Resp: 42260

Ion Ratio Lower Upper

75 100

53 1.1 73.4 110.2#

89 0.6 36.6 55.0#

