

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX021419\  
 Data File : VX007517.D  
 Acq On : 13 Feb 2019 13:24  
 Operator : JC/SP  
 Sample : K1356-05  
 Misc : 6.83g/5mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SU-03-020819-A

Quant Time: Feb 13 13:58:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 02 01:32:36 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 442092   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 683765   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 637816   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 337577   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 232455   | 49.54 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.08% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 210120   | 47.23 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.46% |      |
| 50) Toluene-d8              | 8.71   | 98  | 811025   | 49.13 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.26% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 293271   | 48.66 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.32% |      |

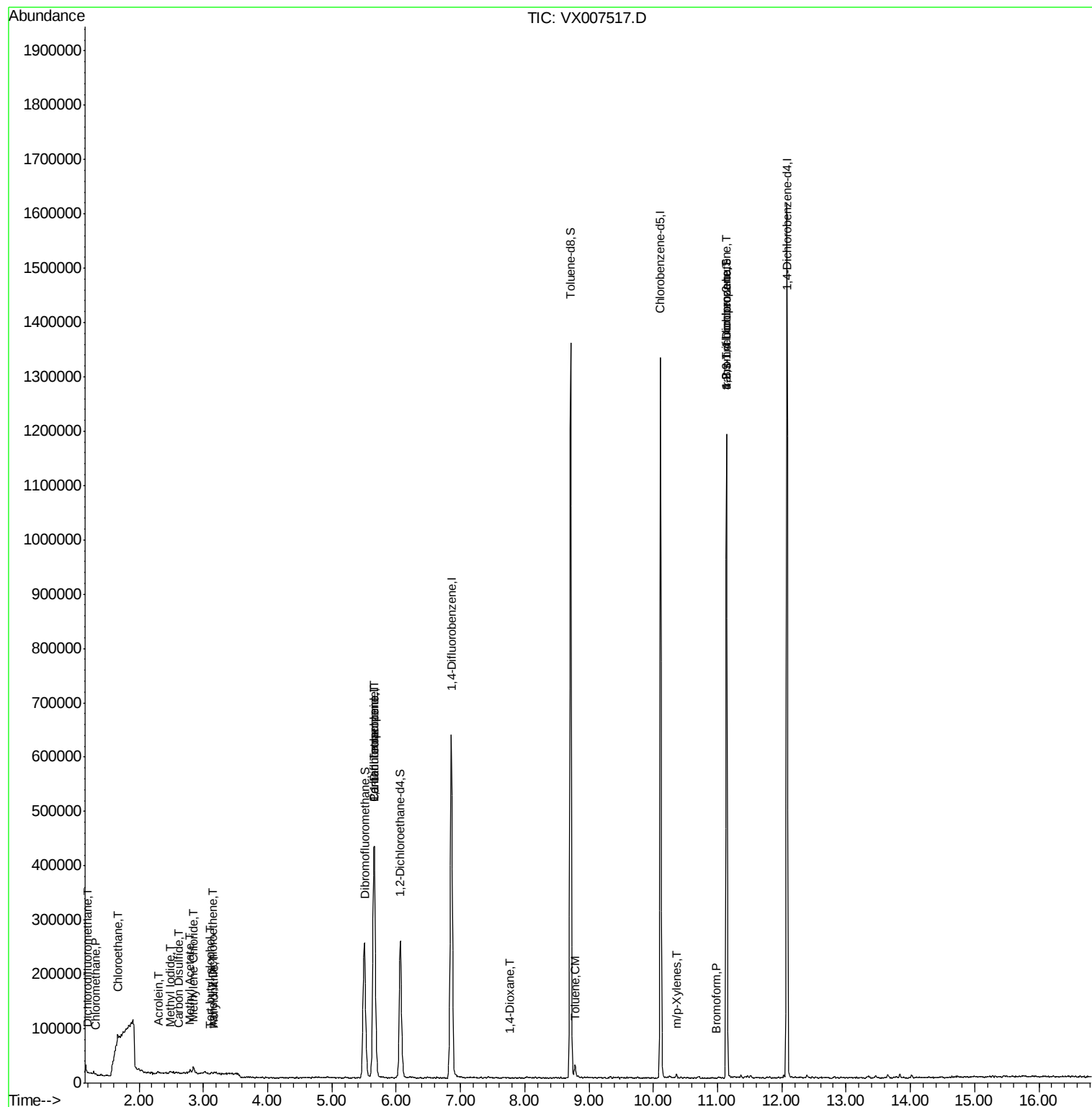
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.20  | 85   | 498      | 0.269  | ug/l   | 92     |
| 3) Chloromethane               | 1.34  | 50   | 1266     | 0.254  | ug/l # | 50     |
| 6) Chloroethane                | 1.68  | 64   | 633      | 0.200  | ug/l # | 61     |
| 10) Methyl Iodide              | 2.49  | 142  | 2045     | 0.306  | ug/l # | 76     |
| 11) Tert butyl alcohol         | 3.10  | 59   | 201      | 0.207  | ug/l # | 1      |
| 13) Acrolein                   | 2.29  | 56   | 669      | 1.469  | ug/l # | 14     |
| 15) Acrylonitrile              | 3.16  | 53   | 662      | 0.276  | ug/l # | 15     |
| 17) Carbon Disulfide           | 2.60  | 76   | 331      | 2.150  | ug/l # | 75     |
| 18) Methyl Acetate             | 2.79  | 43   | 5250     | 1.519  | ug/l   | 99     |
| 20) Methylene Chloride         | 2.84  | 84   | 5369     | 0.836  | ug/l # | 93     |
| 21) trans-1,2-Dichloroethene   | 3.15  | 96   | 1071     | 0.238  | ug/l # | 54     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 28798    | 4.694  | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 39017    | 6.555  | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.76  | 88   | 166      | 8.393  | ug/l # | 1      |
| 52) Toluene                    | 8.78  | 92   | 8669     | 0.743  | ug/l   | 94     |
| 68) m/p-Xylenes                | 10.36 | 106  | 1960     | 0.220  | ug/l # | 72     |
| 71) Bromoform                  | 10.98 | 173  | 159      | 4.065  | ug/l # | 29     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 139915   | 21.308 | ug/l # | 32     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 139915   | 64.520 | ug/l # | 9      |

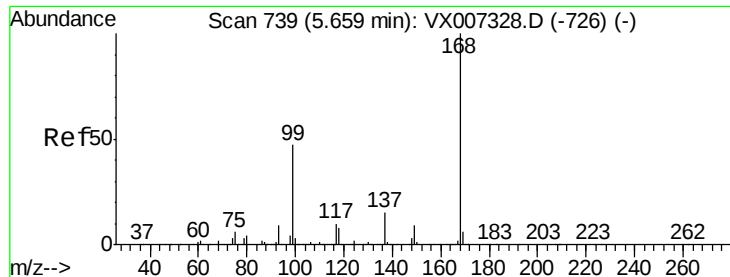
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX021419\  
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Quant Title : SW846 8260  
QLast Update : Sat Feb 02 01:32:36 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX007517.D

Acq: 13 Feb 2019 13:24

Instrument :

MSVOA\_X

ClientSampleId :

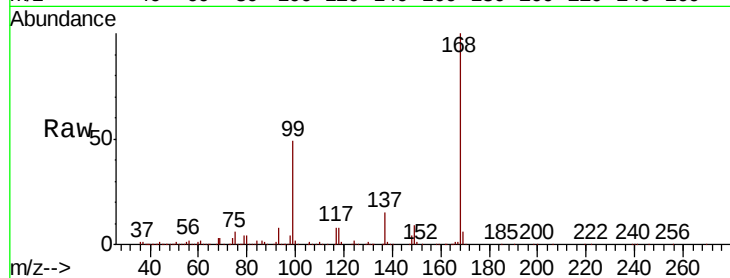
SU-03-020819-A

Tgt Ion:168 Resp: 442092

Ion Ratio Lower Upper

168 100

99 49.3 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

5.66

150000

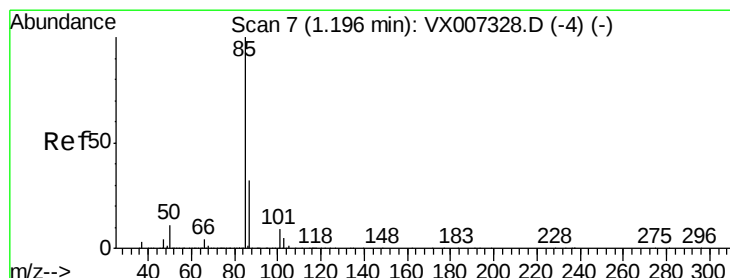
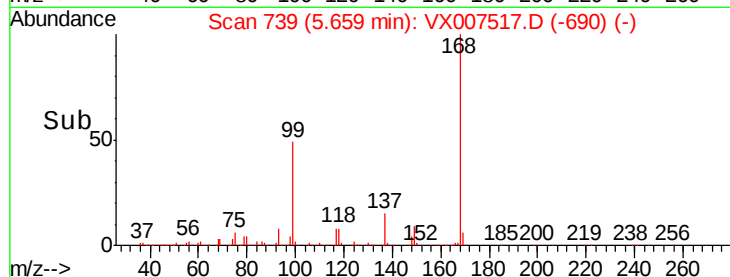
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.269 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX007517.D

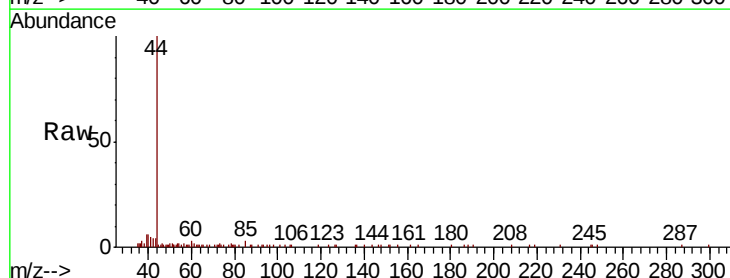
Acq: 13 Feb 2019 13:24

Tgt Ion: 85 Resp: 498

Ion Ratio Lower Upper

85 100

87 27.4 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

300

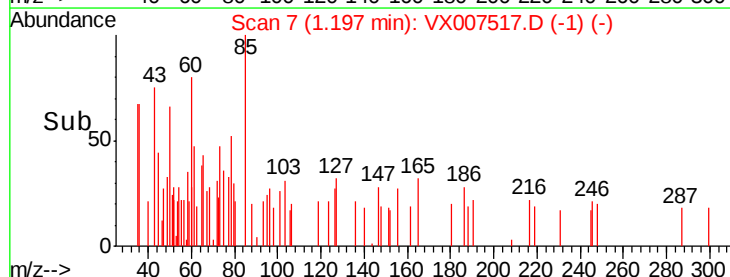
200

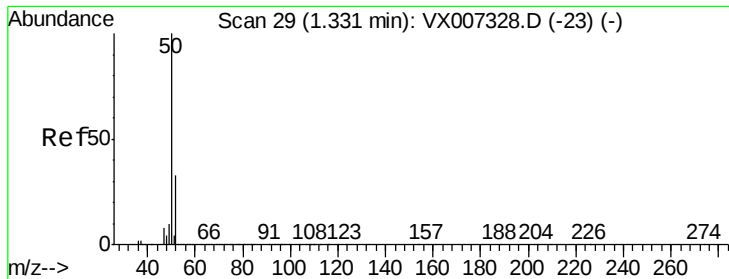
100

0

Time-->

1.15 1.20





#3

Chloromethane

Concen: 0.254 ug/l

RT: 1.34 min Scan# 30

Delta R.T. 0.01 min

Lab File: VX007517.D

Acq: 13 Feb 2019 13:24

Instrument :

MSVOA\_X

ClientSampleId :

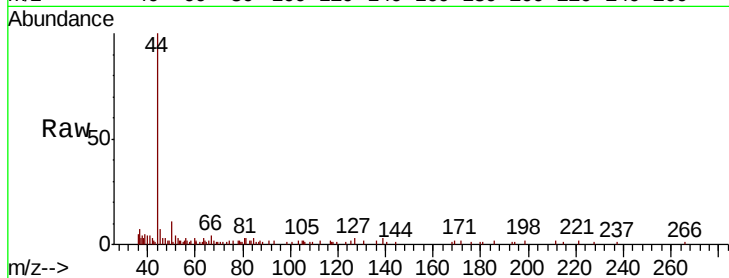
SU-03-020819-A

Tgt Ion: 50 Resp: 1266

Ion Ratio Lower Upper

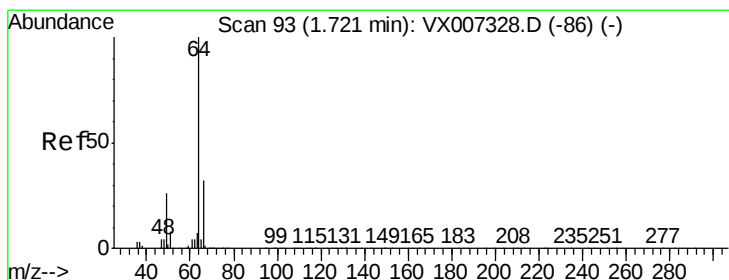
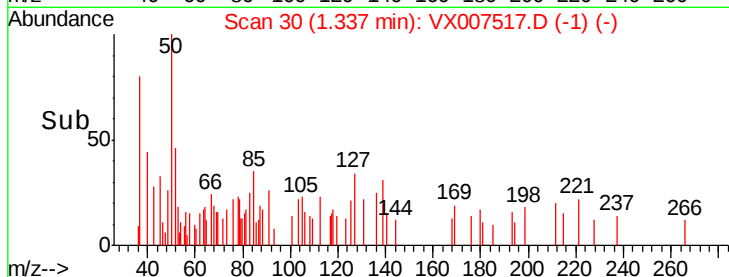
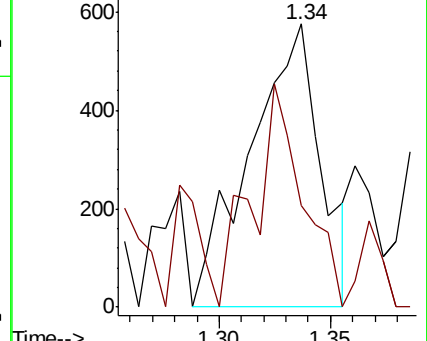
50 100

52 60.6 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#6

Chloroethane

Concen: 0.200 ug/l

RT: 1.68 min Scan# 86

Delta R.T. -0.04 min

Lab File: VX007517.D

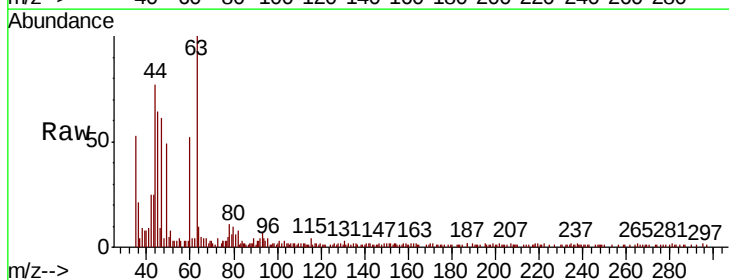
Acq: 13 Feb 2019 13:24

Tgt Ion: 64 Resp: 633

Ion Ratio Lower Upper

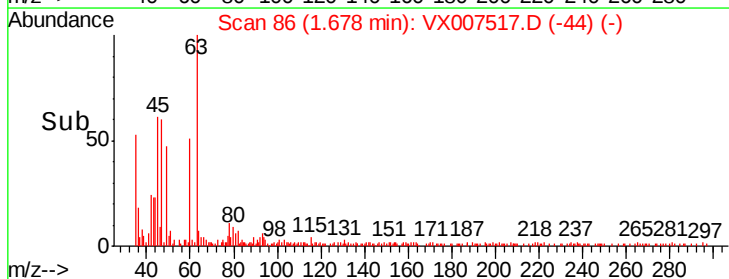
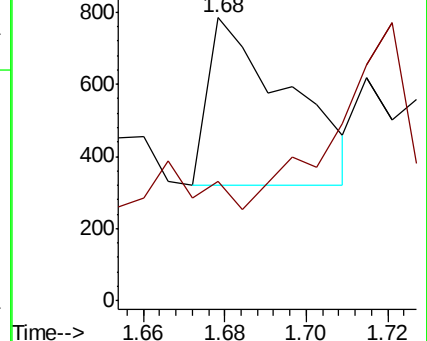
64 100

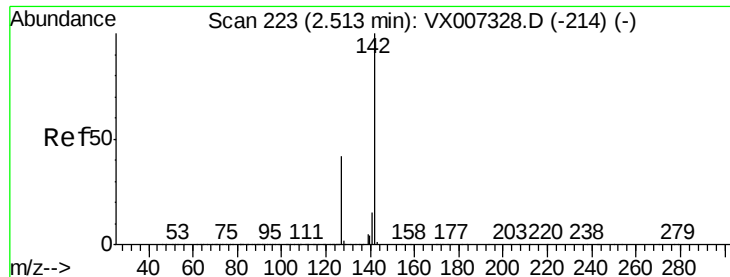
66 10.2 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

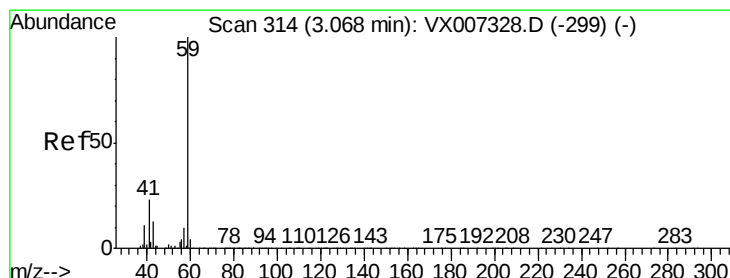
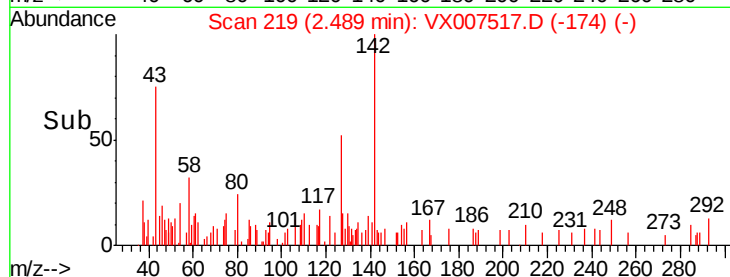
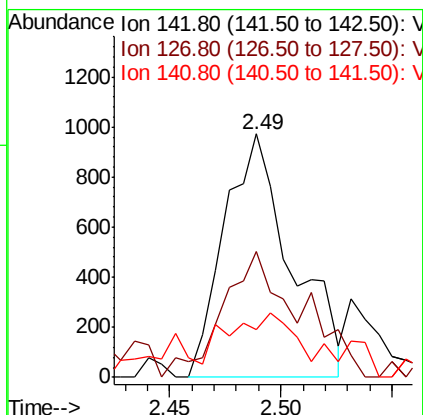
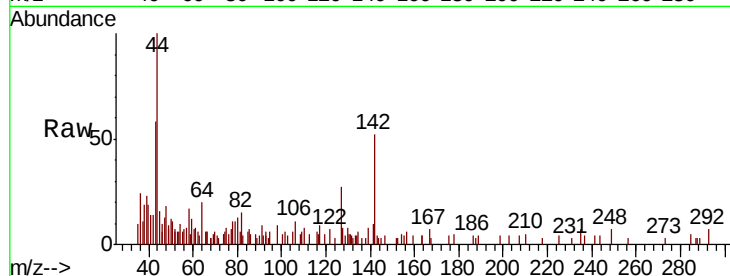




#10  
Methyl Iodide  
Concen: 0.306 ug/l  
RT: 2.49 min Scan# 219  
Delta R.T. -0.02 min  
Lab File: VX007517.D  
Acq: 13 Feb 2019 13:24

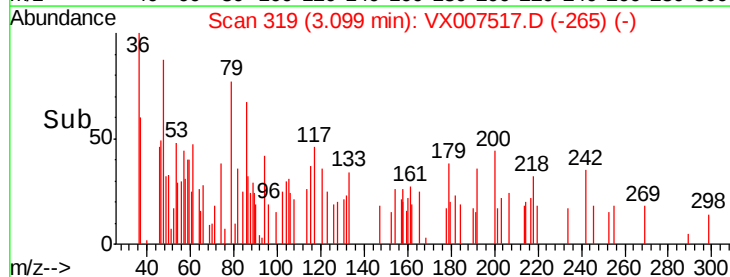
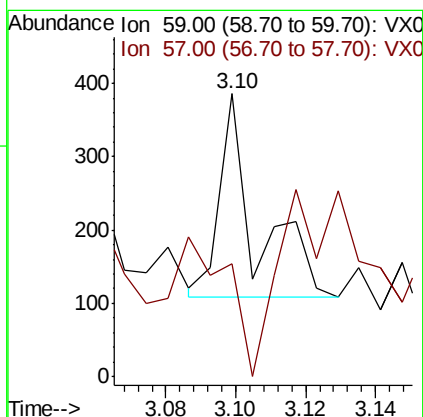
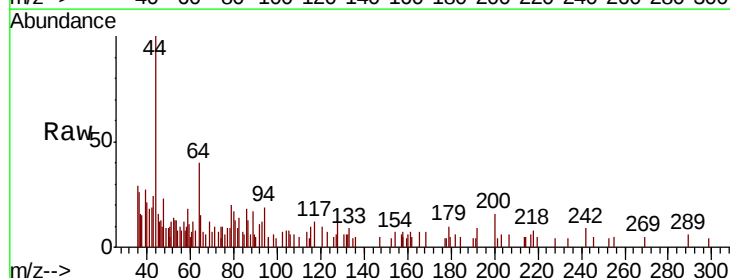
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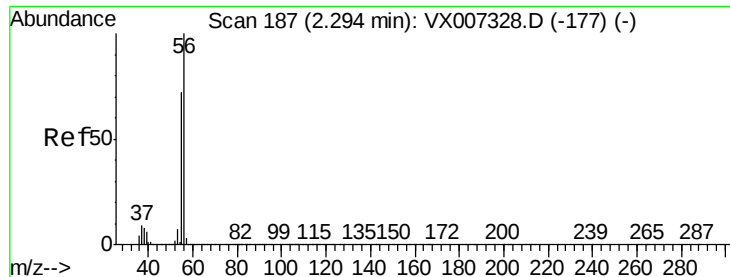
Tgt Ion: 142 Resp: 2045  
Ion Ratio Lower Upper  
142 100  
127 59.5 33.7 50.5#  
141 19.0 11.3 16.9#



#11  
Tert butyl alcohol  
Concen: 0.207 ug/l  
RT: 3.10 min Scan# 319  
Delta R.T. 0.03 min  
Lab File: VX007517.D  
Acq: 13 Feb 2019 13:24

Tgt Ion: 59 Resp: 201  
Ion Ratio Lower Upper  
59 100  
57 107.0 8.1 12.1#





#13

Acrolein

Concen: 1.469 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX007517.D

Acq: 13 Feb 2019 13:24

Instrument :

MSVOA\_X

ClientSampleId :

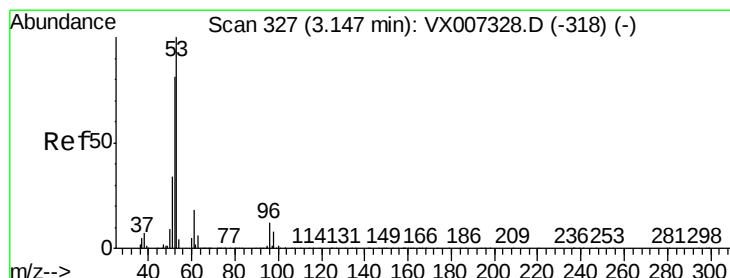
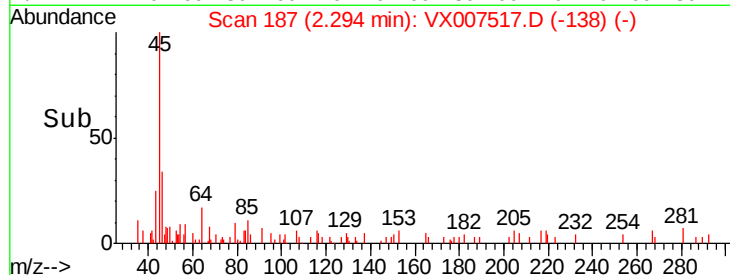
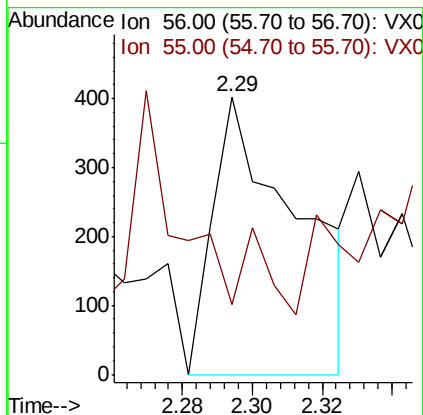
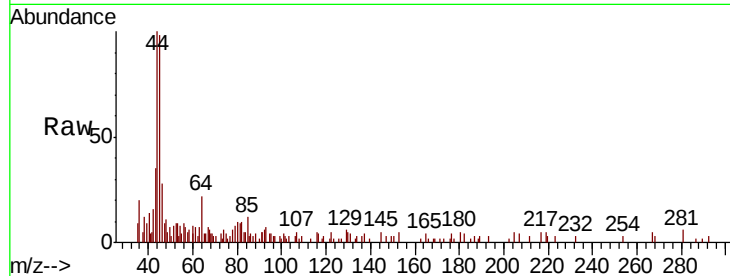
SU-03-020819-A

Tgt Ion: 56 Resp: 669

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#15

Acrylonitrile

Concen: 0.276 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.01 min

Lab File: VX007517.D

Acq: 13 Feb 2019 13:24

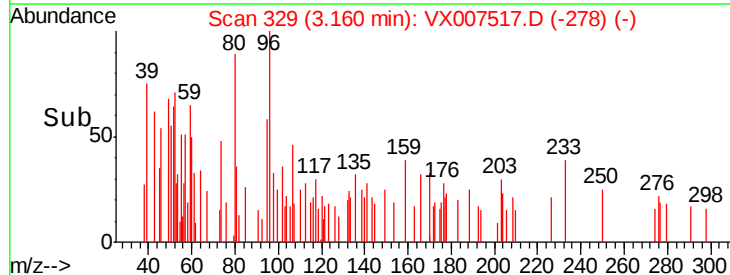
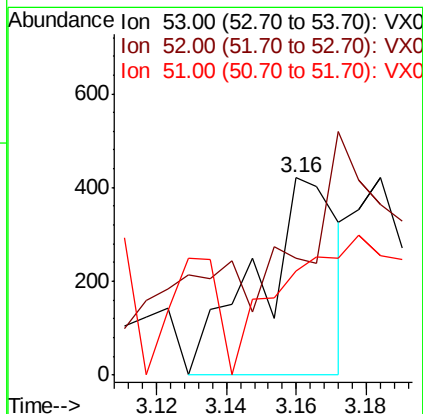
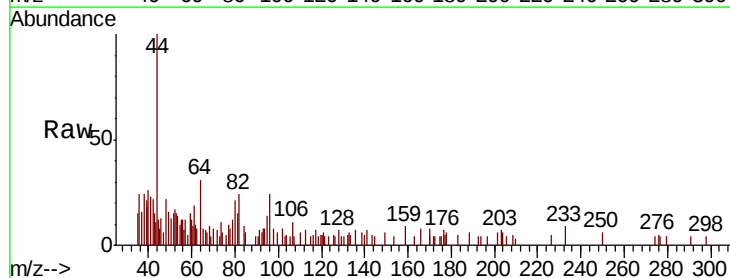
Tgt Ion: 53 Resp: 662

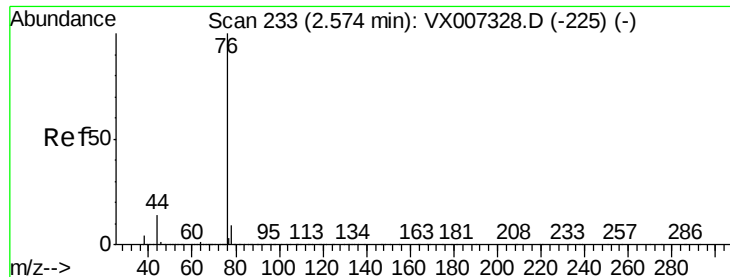
Ion Ratio Lower Upper

53 100

52 135.2 66.4 99.6#

51 122.4 28.4 42.6#

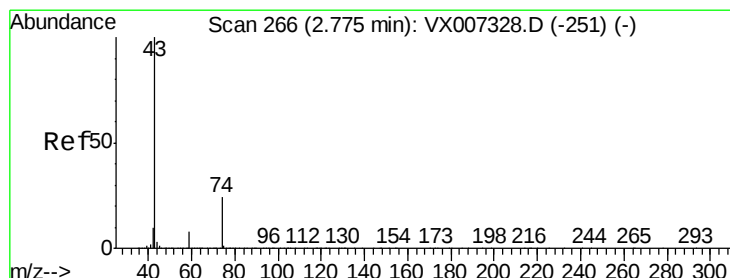
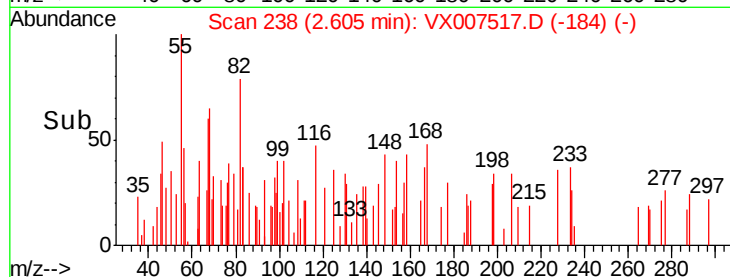
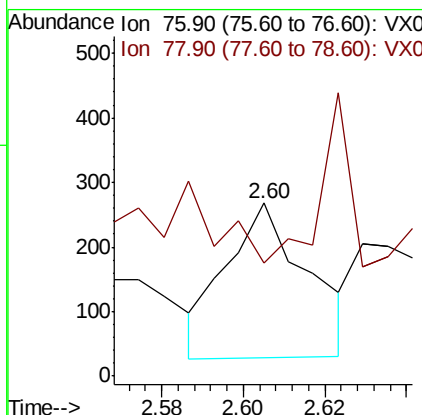
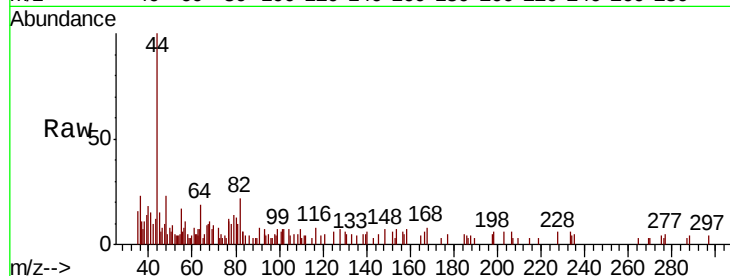




#17  
Carbon Disulfide  
Concen: 2.150 ug/l  
RT: 2.60 min Scan# 238  
Delta R.T. 0.03 min  
Lab File: VX007517.D  
Acq: 13 Feb 2019 13:24

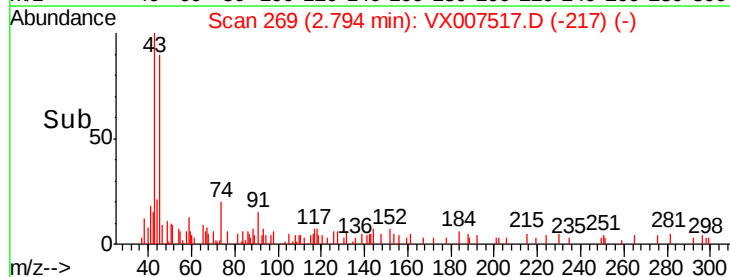
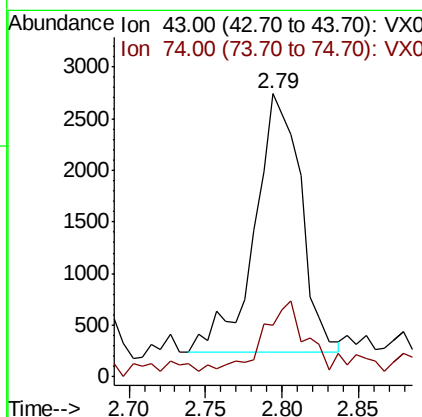
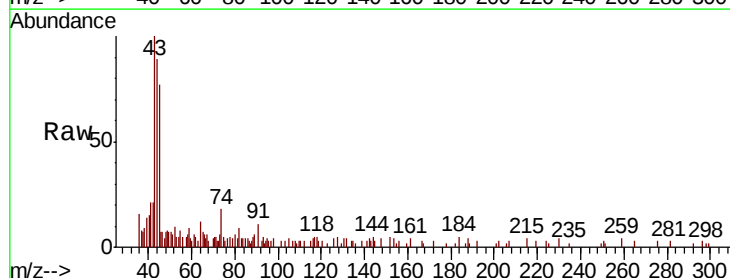
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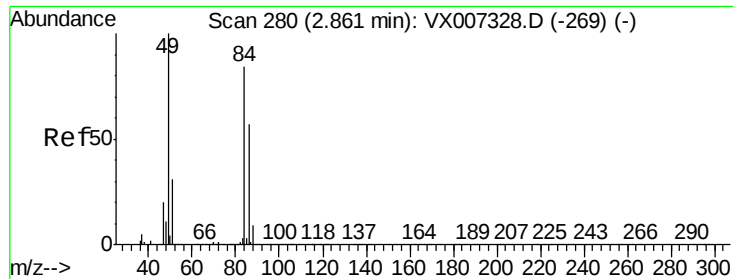
Tgt Ion: 76 Resp: 331  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.1 10.7#



#18  
Methyl Acetate  
Concen: 1.519 ug/l  
RT: 2.79 min Scan# 269  
Delta R.T. 0.02 min  
Lab File: VX007517.D  
Acq: 13 Feb 2019 13:24

Tgt Ion: 43 Resp: 5250  
Ion Ratio Lower Upper  
43 100  
74 23.7 19.4 29.2

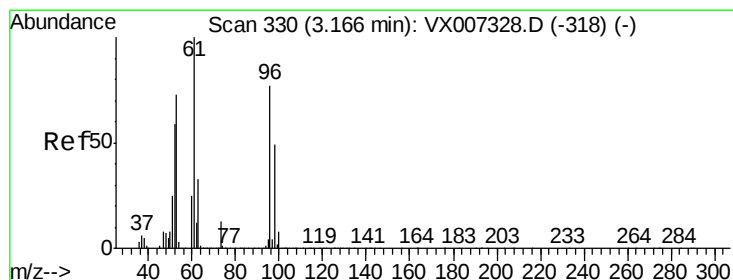
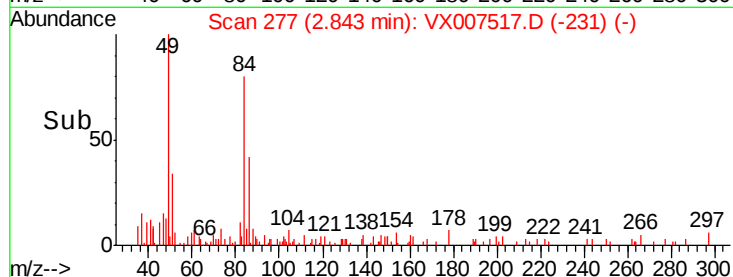
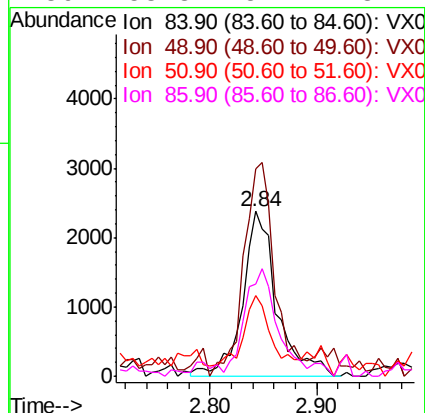
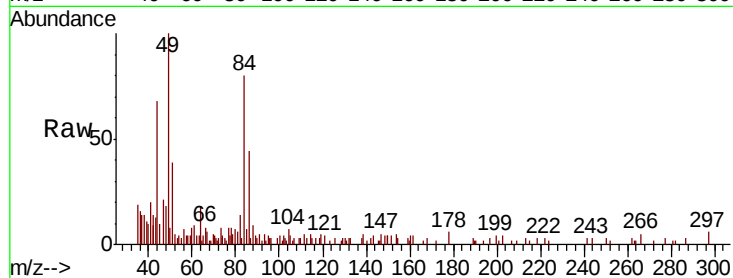




#20  
Methylene Chloride  
Concen: 0.836 ug/l  
RT: 2.84 min Scan# 277  
Delta R.T. -0.02 min  
Lab File: VX007517.D  
Acq: 13 Feb 2019 13:24

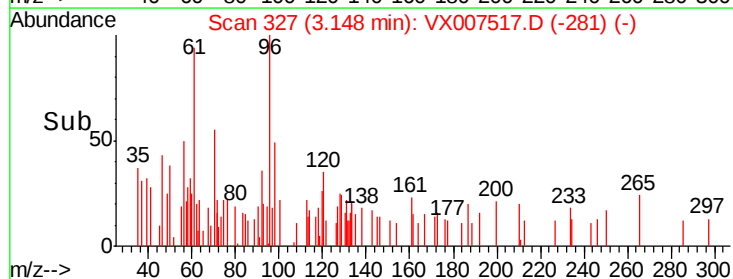
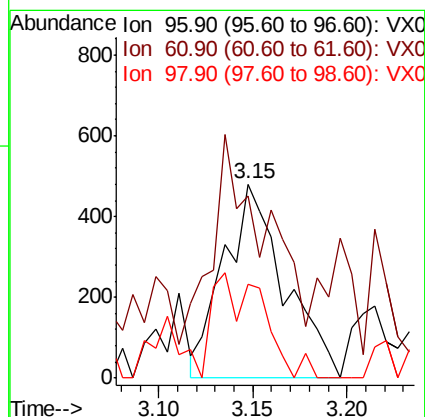
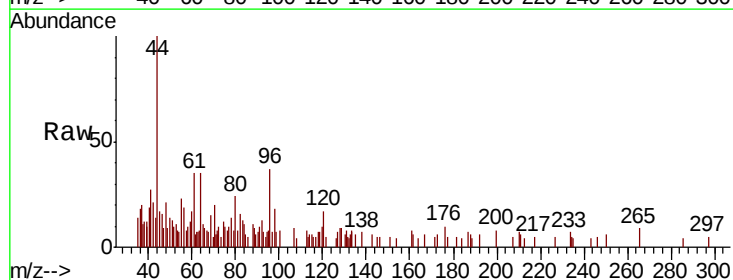
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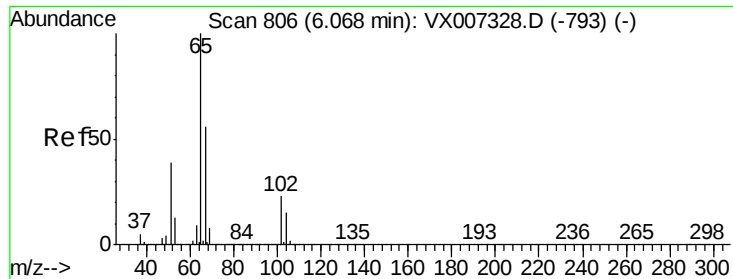
Tgt Ion: 84 Resp: 5369  
Ion Ratio Lower Upper  
84 100  
49 119.3 94.8 142.2  
51 41.0 29.8 44.8  
86 53.3 54.1 81.1#



#21  
trans-1,2-Dichloroethene  
Concen: 0.238 ug/l  
RT: 3.15 min Scan# 327  
Delta R.T. -0.02 min  
Lab File: VX007517.D  
Acq: 13 Feb 2019 13:24

Tgt Ion: 96 Resp: 1071  
Ion Ratio Lower Upper  
96 100  
61 72.5 104.6 156.8#  
98 33.5 51.0 76.4#

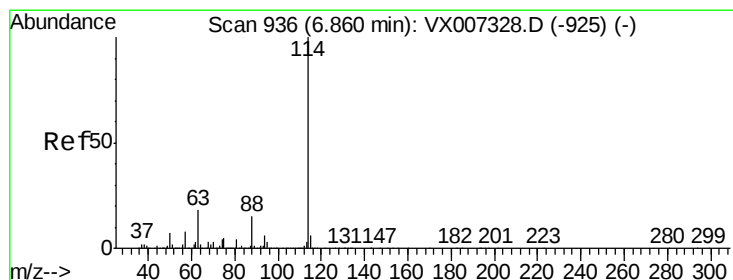
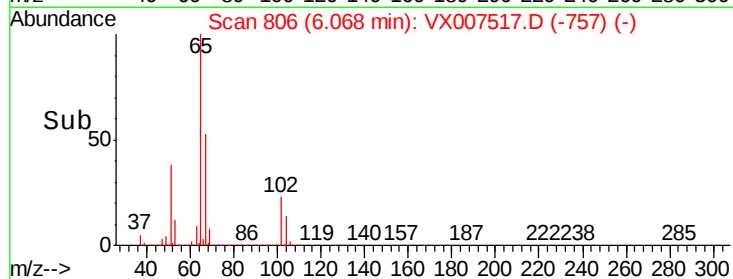
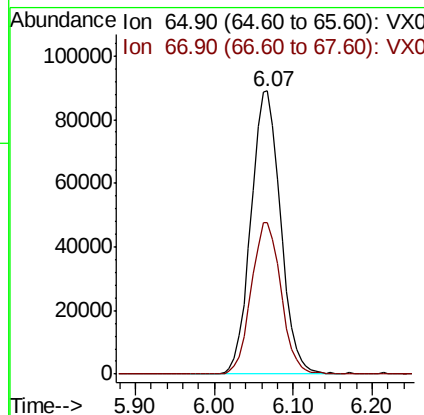
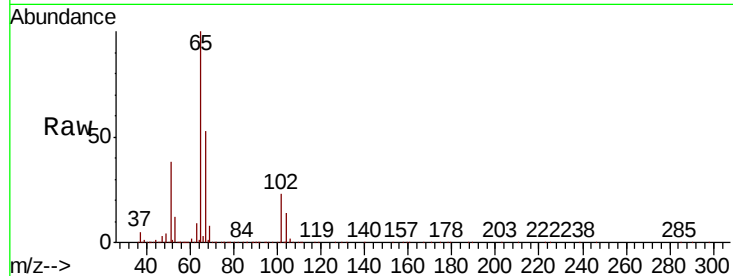




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.538 ug/l  
 RT: 6.07 min Scan# 806  
 Delta R.T. 0.00 min  
 Lab File: VX007517.D  
 Acq: 13 Feb 2019 13:24

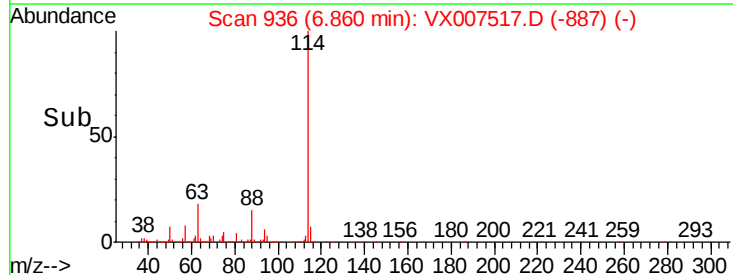
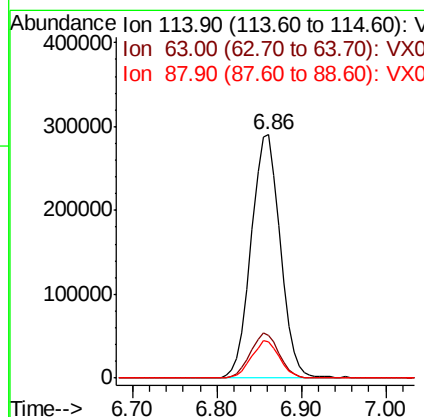
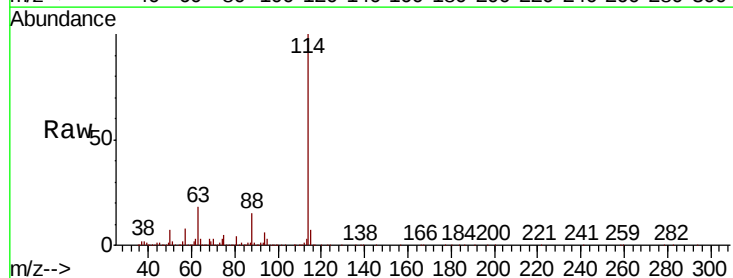
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SU-03-020819-A

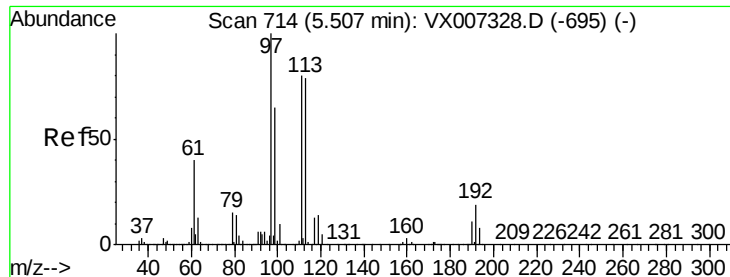
Tgt Ion: 65 Resp: 232455  
 Ion Ratio Lower Upper  
 65 100  
 67 53.8 0.0 108.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX007517.D  
 Acq: 13 Feb 2019 13:24

Tgt Ion: 114 Resp: 683765  
 Ion Ratio Lower Upper  
 114 100  
 63 17.7 0.0 35.6  
 88 14.9 0.0 29.6





#35

Dibromofluoromethane

Concen: 47.228 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.00 min

Lab File: VX007517.D

Acq: 13 Feb 2019 13:24

Instrument :

MSVOA\_X

ClientSampleId :

SU-03-020819-A

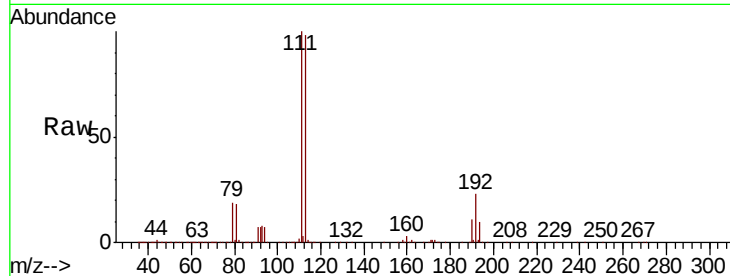
Tgt Ion:113 Resp: 210120

Ion Ratio Lower Upper

113 100

111 101.8 81.8 122.8

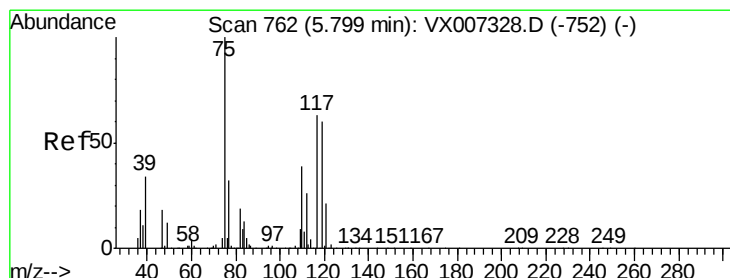
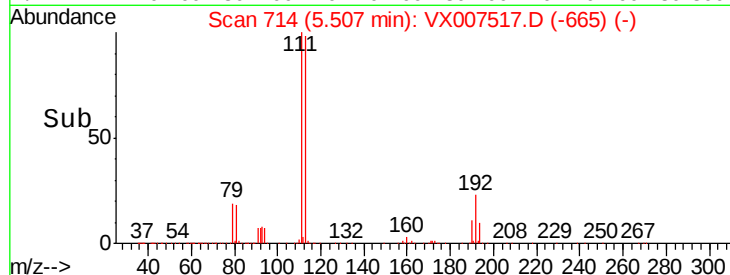
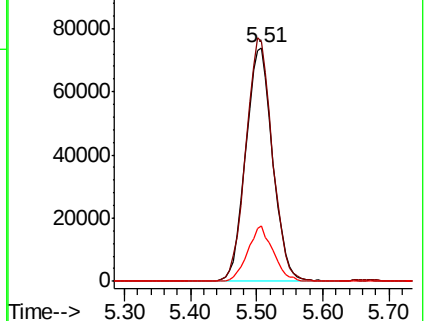
192 22.2 18.5 27.7



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: 4.694 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX007517.D

Acq: 13 Feb 2019 13:24

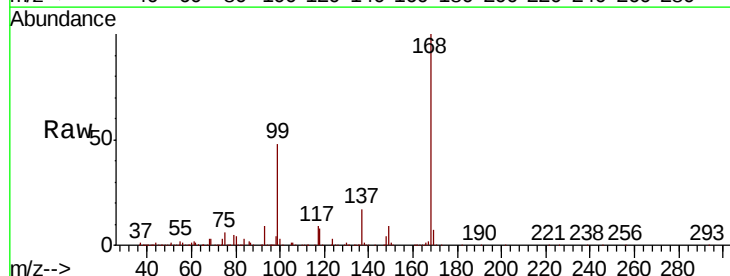
Tgt Ion: 75 Resp: 28798

Ion Ratio Lower Upper

75 100

110 11.5 20.0 59.9#

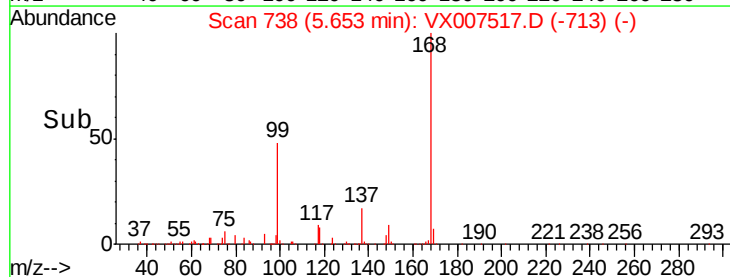
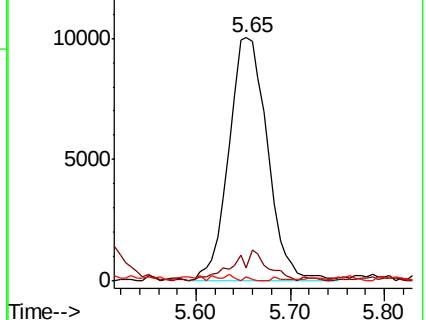
77 0.3 24.7 37.1#

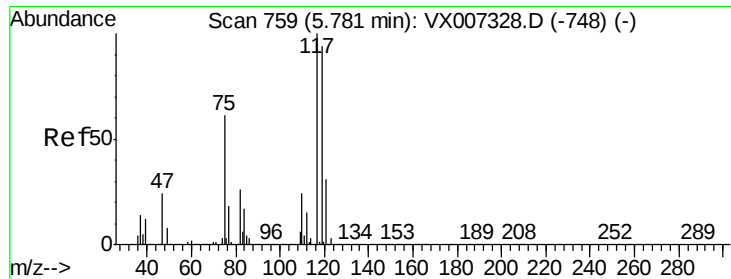


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.555 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX007517.D

Acq: 13 Feb 2019 13:24

Instrument :

MSVOA\_X

ClientSampleId :

SU-03-020819-A

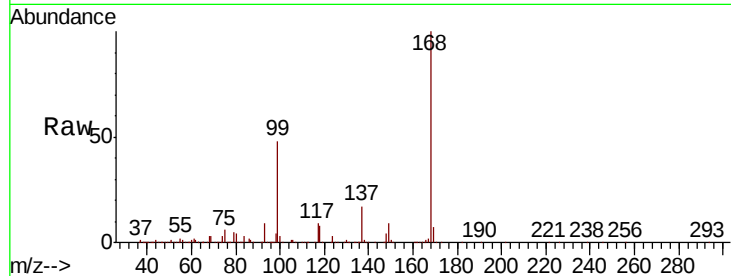
Tgt Ion: 117 Resp: 39017

Ion Ratio Lower Upper

117 100

119 4.3 75.3 112.9#

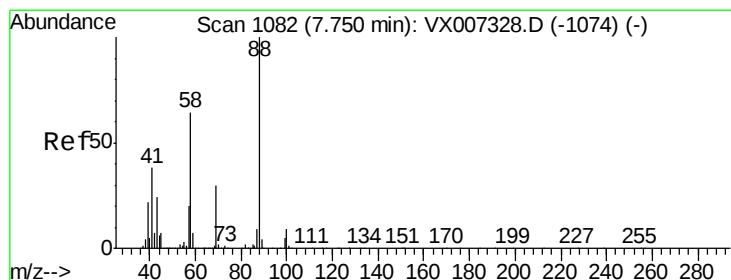
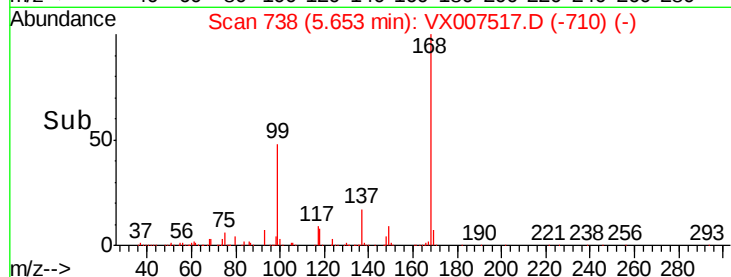
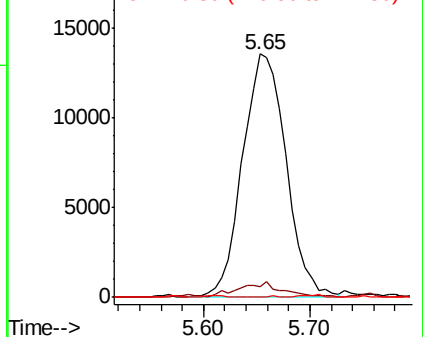
121 0.0 25.0 37.4#



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



#49

1,4-Dioxane

Concen: 8.393 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX007517.D

Acq: 13 Feb 2019 13:24

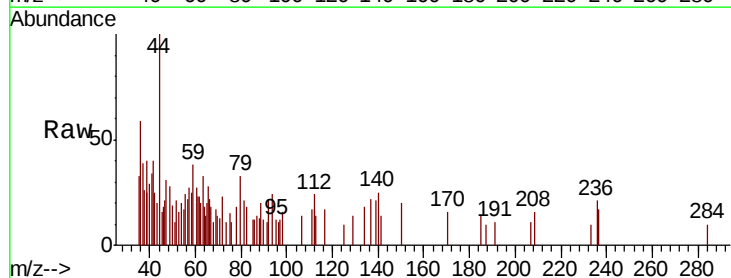
Tgt Ion: 88 Resp: 166

Ion Ratio Lower Upper

88 100

43 170.5 24.2 36.4#

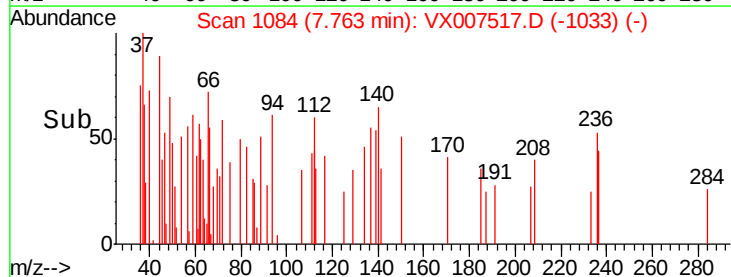
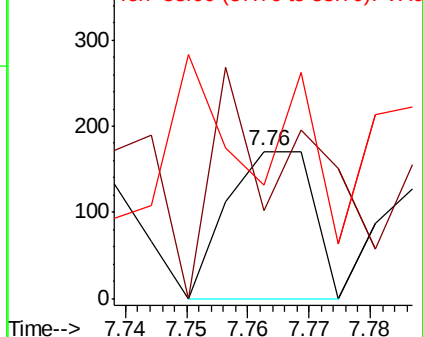
58 174.1 53.0 79.4#

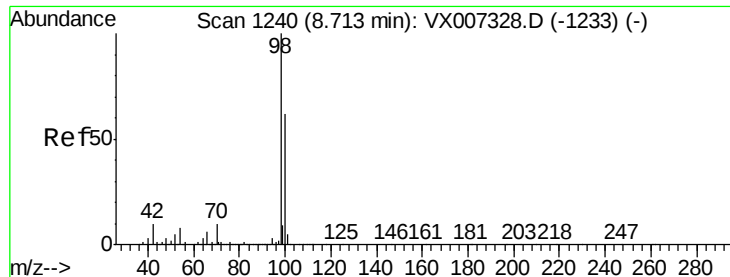


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

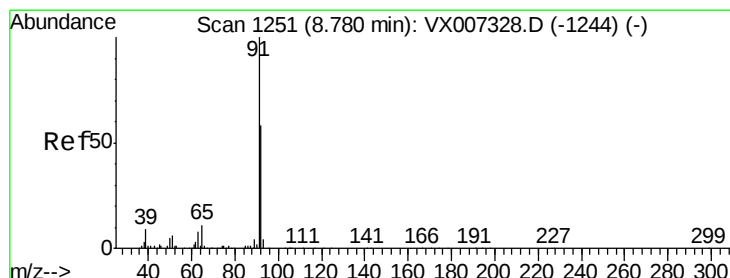
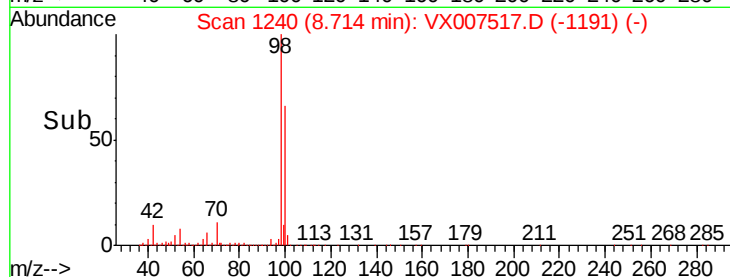
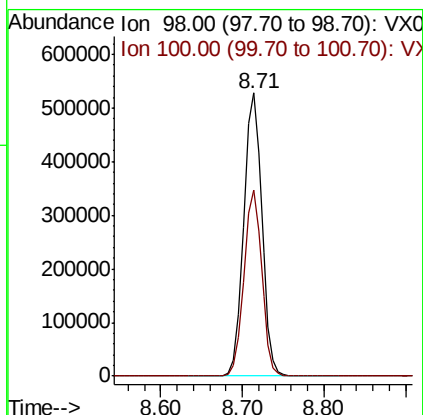
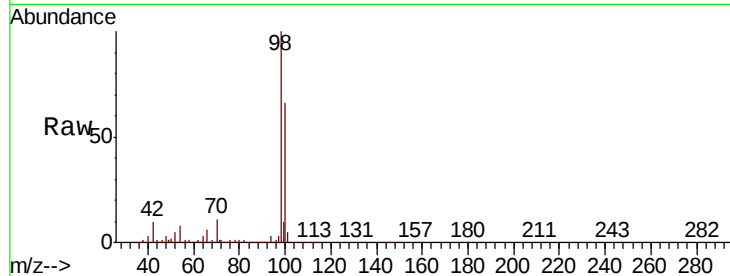




#50  
Toluene-d8  
Concen: 49.133 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX007517.D  
Acq: 13 Feb 2019 13:24

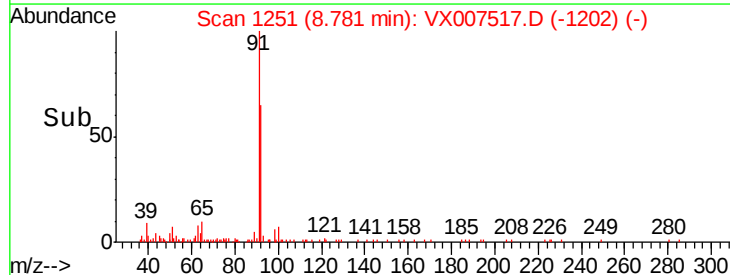
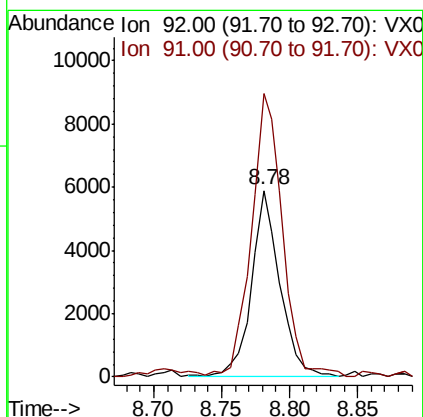
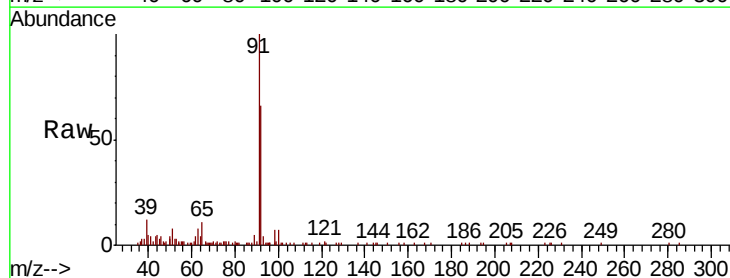
Instrument :  
MSVOA\_X  
ClientSampleId :  
SU-03-020819-A

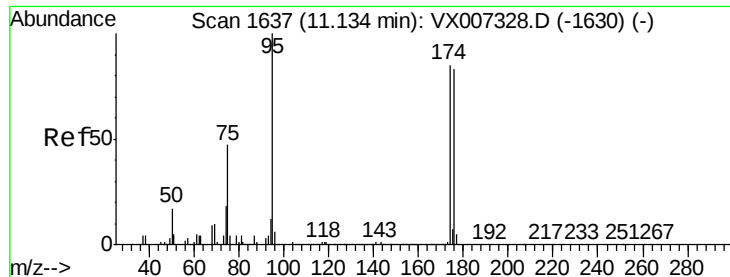
Tgt Ion: 98 Resp: 811025  
Ion Ratio Lower Upper  
98 100  
100 64.4 51.6 77.4



#52  
Toluene  
Concen: 0.743 ug/l  
RT: 8.78 min Scan# 1251  
Delta R.T. 0.00 min  
Lab File: VX007517.D  
Acq: 13 Feb 2019 13:24

Tgt Ion: 92 Resp: 8669  
Ion Ratio Lower Upper  
92 100  
91 165.8 139.1 208.7





#62

4-Bromofluorobenzene

Concen: 48.663 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX007517.D

Acq: 13 Feb 2019 13:24

Instrument :

MSVOA\_X

ClientSampleId :

SU-03-020819-A

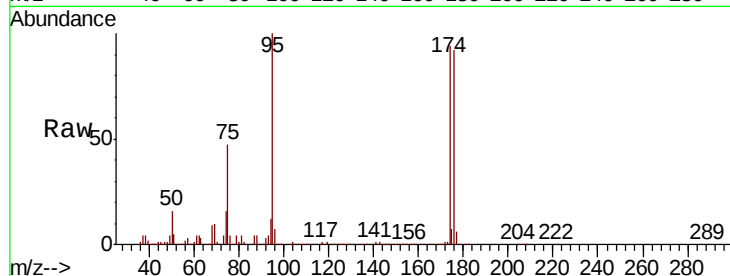
Tgt Ion: 95 Resp: 293271

Ion Ratio Lower Upper

95 100

174 93.7 0.0 189.2

176 90.7 0.0 186.2



Abundance Ion 94.90 (94.60 to 95.60): VX007328.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX007328.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX007328.D (-1630) (-)

Time-->

11.14

250000

200000

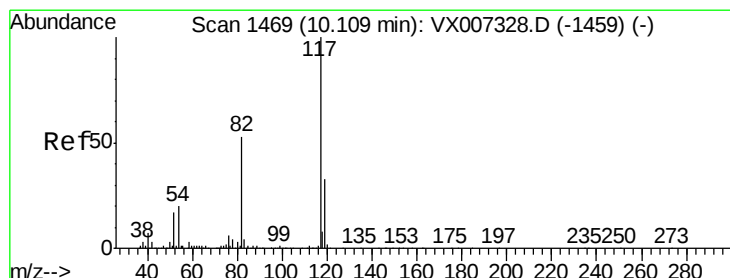
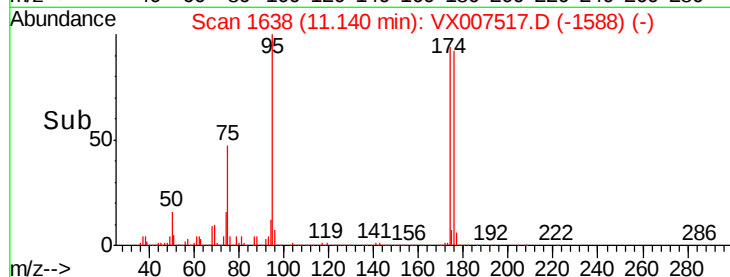
150000

100000

50000

0

11.10 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007517.D

Acq: 13 Feb 2019 13:24

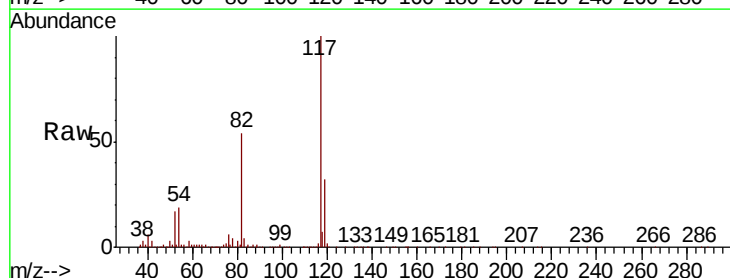
Tgt Ion: 117 Resp: 637816

Ion Ratio Lower Upper

117 100

82 53.5 42.1 63.1

119 32.0 26.5 39.7



Abundance Ion 116.90 (116.60 to 117.60): VX007328.D (-1459) (-)

Ion 82.00 (81.70 to 82.70): VX007328.D (-1459) (-)

Ion 118.90 (118.60 to 119.60): VX007328.D (-1459) (-)

Time-->

10.11

600000

500000

400000

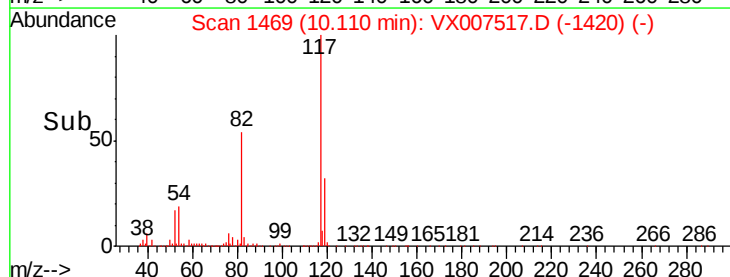
300000

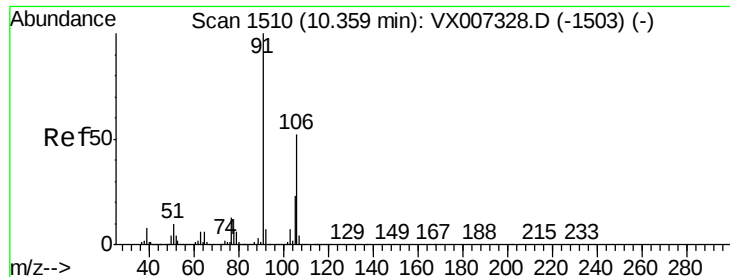
200000

100000

0

10.00 10.10 10.20





#68

m/p-Xylenes

Concen: 0.220 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX007517.D

Acq: 13 Feb 2019 13:24

Instrument :

MSVOA\_X

ClientSampleId :

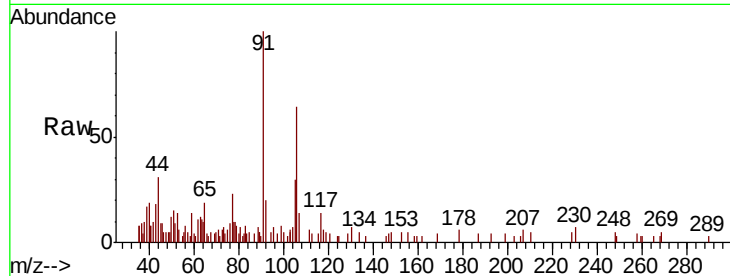
SU-03-020819-A

Tgt Ion:106 Resp: 1960

Ion Ratio Lower Upper

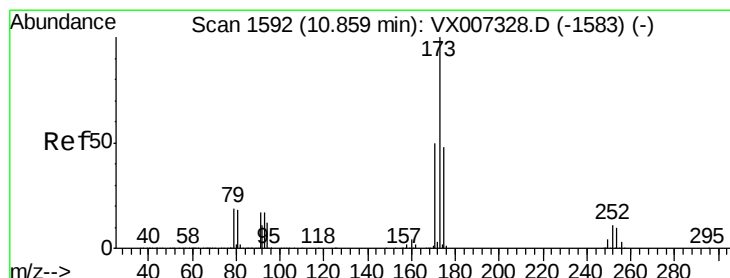
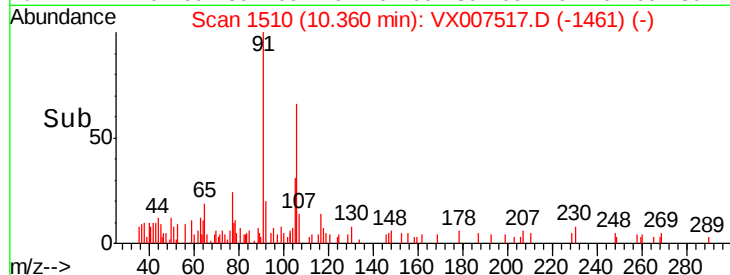
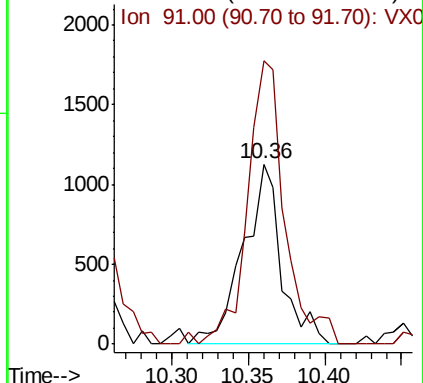
106 100

91 153.9 156.6 234.8#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#71

Bromoform

Concen: 4.065 ug/l

RT: 10.98 min Scan# 1612

Delta R.T. 0.12 min

Lab File: VX007517.D

Acq: 13 Feb 2019 13:24

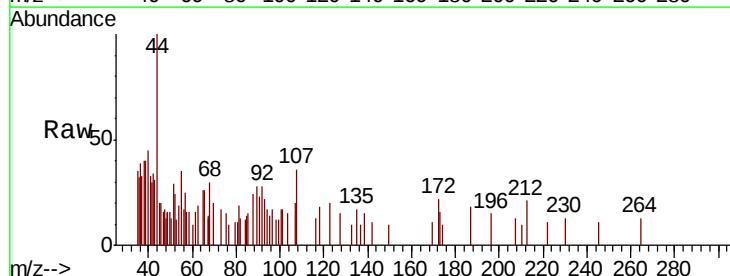
Tgt Ion:173 Resp: 159

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

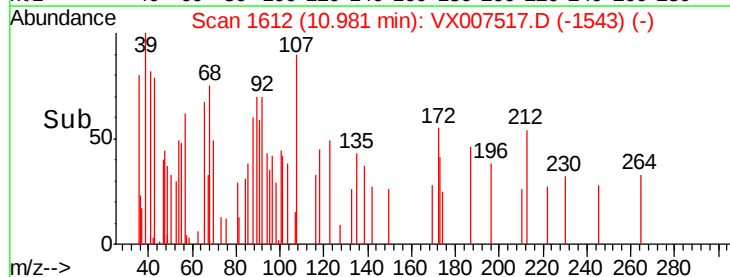
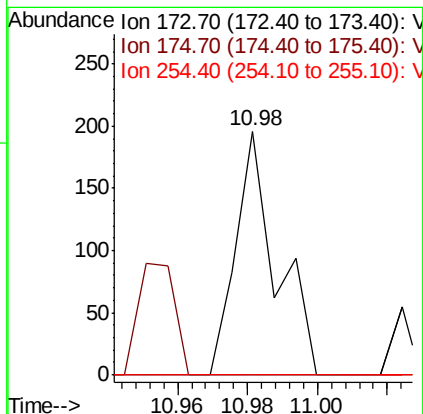
254 0.0 0.2 0.2#

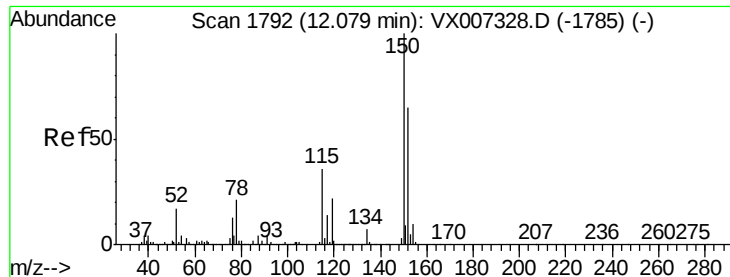


Abundance Ion 172.70 (172.40 to 173.40): V

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: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007517.D

Acq: 13 Feb 2019 13:24

Instrument :

MSVOA\_X

ClientSampleId :

SU-03-020819-A

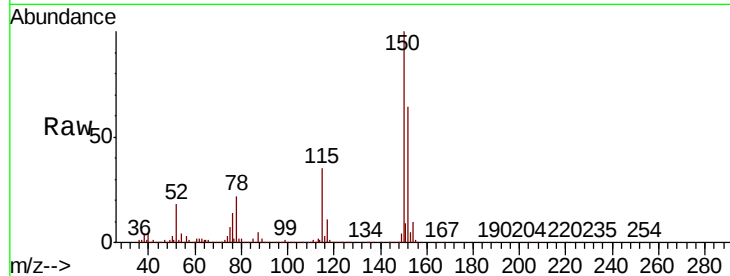
Tgt Ion: 152 Resp: 337577

Ion Ratio Lower Upper

152 100

115 55.0 38.0 114.0

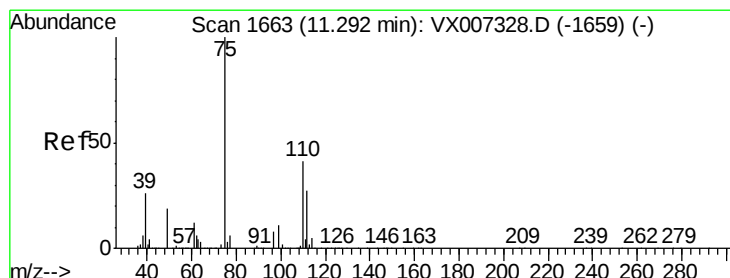
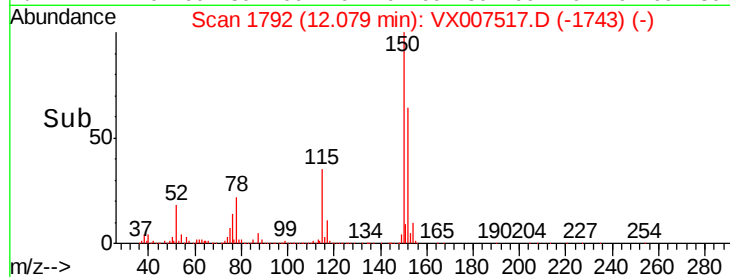
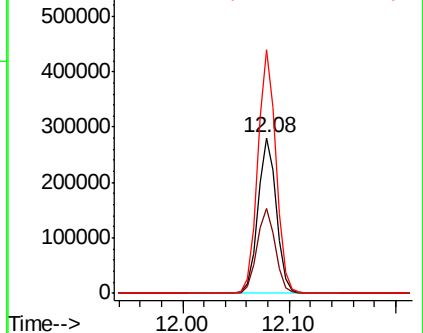
150 156.0 0.0 346.4



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: 21.308 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.15 min

Lab File: VX007517.D

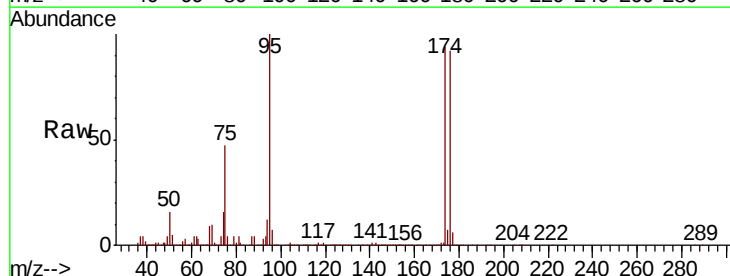
Acq: 13 Feb 2019 13:24

Tgt Ion: 75 Resp: 139915

Ion Ratio Lower Upper

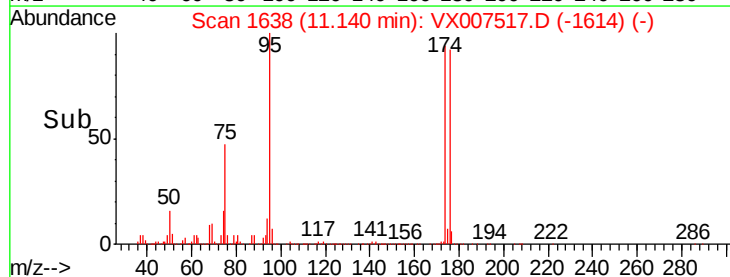
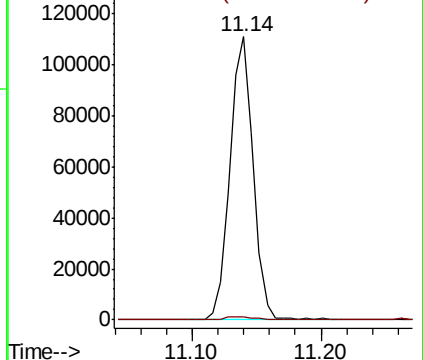
75 100

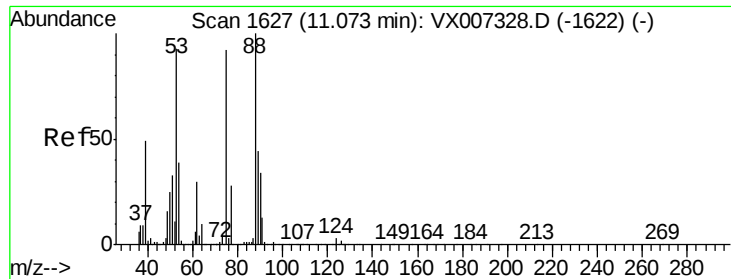
77 1.4 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 64.520 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX007517.D

Acq: 13 Feb 2019 13:24

Instrument :

MSVOA\_X

ClientSampleId :

SU-03-020819-A

Tgt Ion: 75 Resp: 139915

Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.6#

89 0.0 41.4 62.0#

