

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX081219\  
 Data File : VX011493.D  
 Acq On : 12 Aug 2019 19:00  
 Operator : JC/SP  
 Sample : K4278-07  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z3-0704

Quant Time: Aug 13 07:41:41 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 02 01:55:00 2019  
 Response via : Initial Calibration

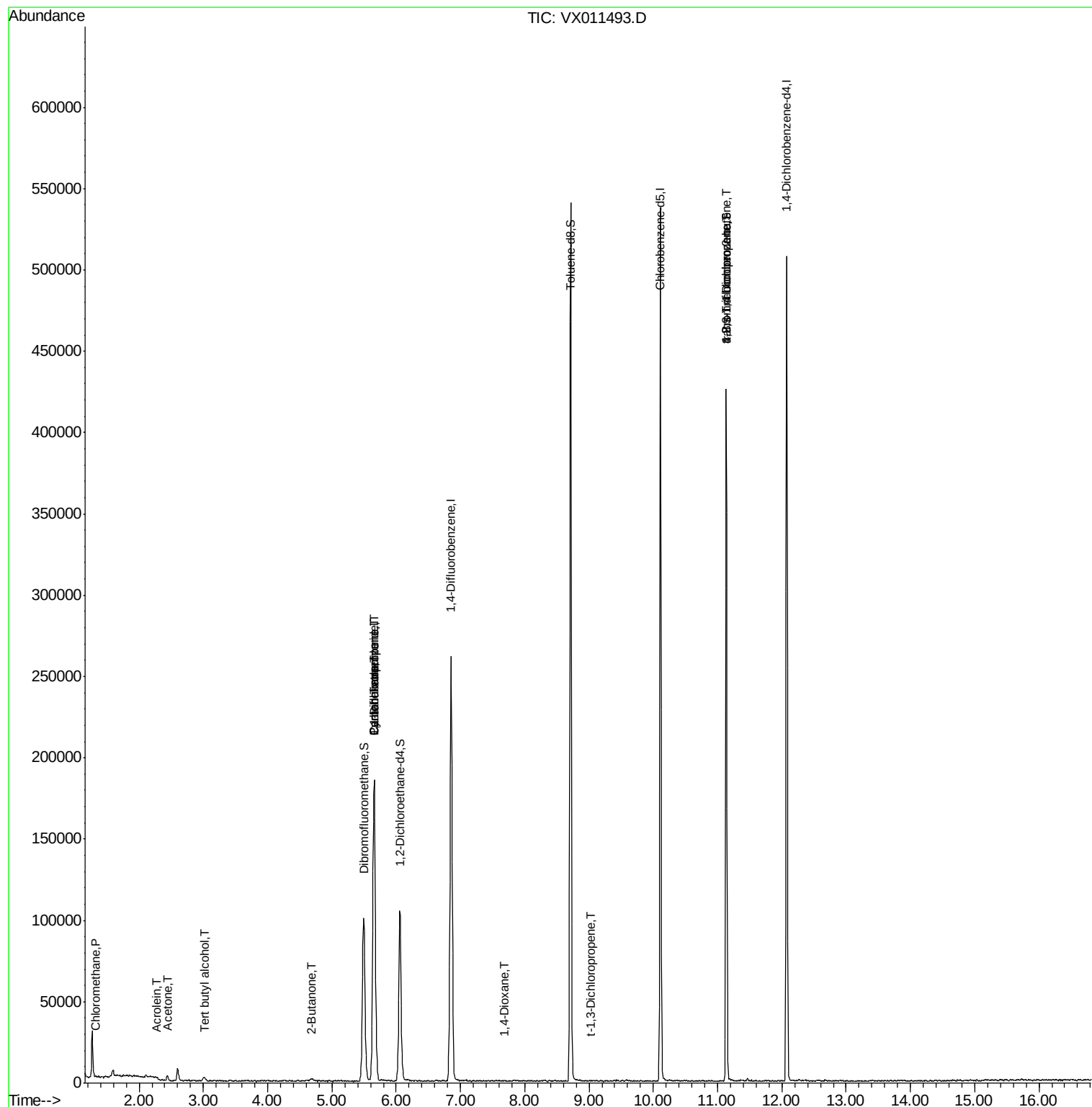
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 5.66  | 168  | 178020   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 6.85  | 114  | 267120   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 10.11 | 117  | 237952   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 12.07 | 152  | 108676   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 6.06  | 65   | 99183    | 55.32     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 110.64% |          |
| 35) Dibromofluoromethane       | 5.49  | 113  | 84012    | 48.17     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 96.34%  |          |
| 50) Toluene-d8                 | 8.71  | 98   | 317101   | 48.17     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 96.34%  |          |
| 62) 4-Bromofluorobenzene       | 11.13 | 95   | 101741   | 43.29     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 86.58%  |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 3) Chloromethane               | 1.32  | 50   | 334      | 0.216     | ug/l #  | 48       |
| 6) Chloroethane                | 1.70  | 64   | 85       | Below Cal |         | 99       |
| 11) Tert butyl alcohol         | 3.01  | 59   | 1440     | 4.051     | ug/l #  | 77       |
| 13) Acrolein                   | 2.28  | 56   | 156      | 0.280     | ug/l #  | 69       |
| 16) Acetone                    | 2.44  | 43   | 3814     | 4.470     | ug/l #  | 87       |
| 25) 2-Butanone                 | 4.68  | 43   | 598      | 0.493     | ug/l    | 92       |
| 31) Cyclohexane                | 5.65  | 56   | 3722     | 1.612     | ug/l #  | 26       |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 12211    | 5.236     | ug/l #  | 49       |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 17009    | 7.249     | ug/l #  | 15       |
| 49) 1,4-Dioxane                | 7.68  | 88   | 25       | 0.490     | ug/l #  | 1        |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 22       | 2.846     | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 52658    | 26.607    | ug/l #  | 35       |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 52658    | 69.141    | ug/l #  | 10       |

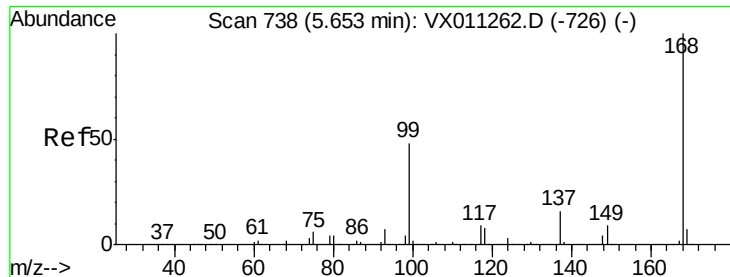
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_X  
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Z3-0704

Quant Time: Aug 13 07:41:41 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 02 01:55:00 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011493.D

Acq: 12 Aug 2019 19:00

Instrument :

MSVOA\_X

ClientSampled :

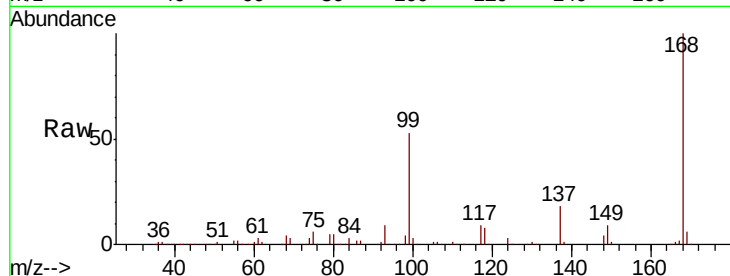
Z3-0704

Tgt Ion:168 Resp: 178020

Ion Ratio Lower Upper

168 100

99 52.5 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

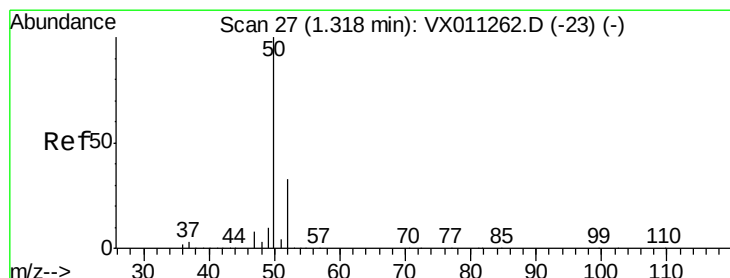
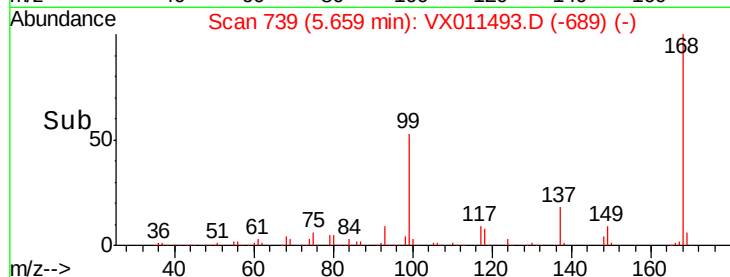
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.216 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX011493.D

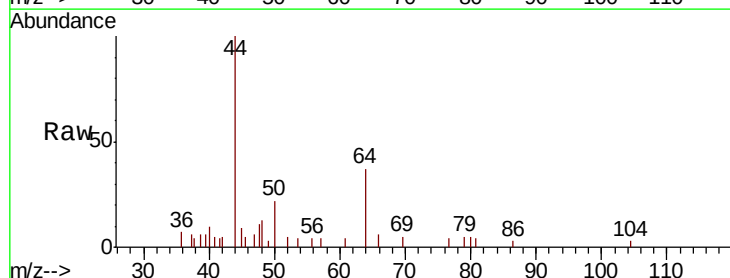
Acq: 12 Aug 2019 19:00

Tgt Ion: 50 Resp: 334

Ion Ratio Lower Upper

50 100

52 3.3 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

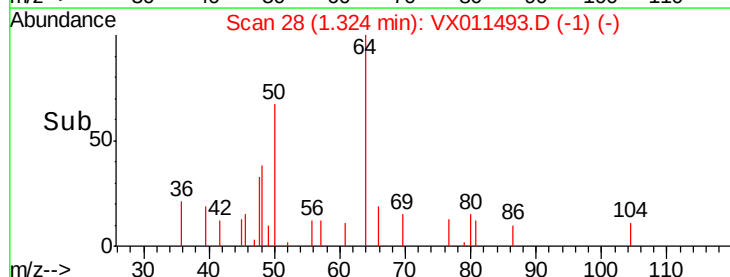
300

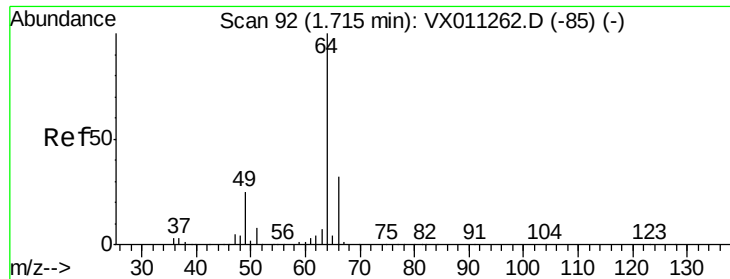
200

100

0

Time--> 1.28 1.30 1.32 1.34





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX011493.D

Acq: 12 Aug 2019 19:00

Instrument :

MSVOA\_X

ClientSampleId :

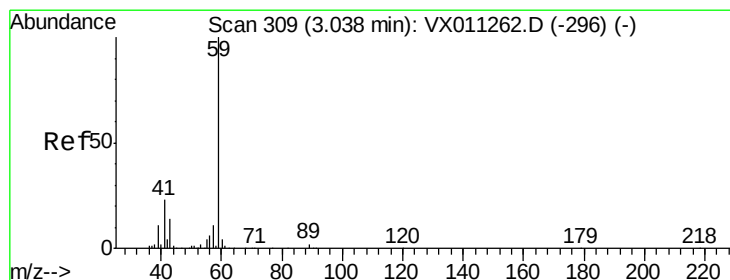
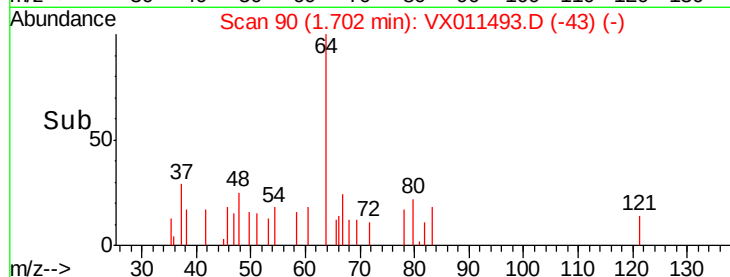
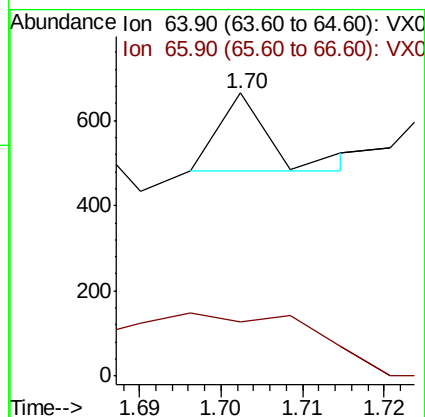
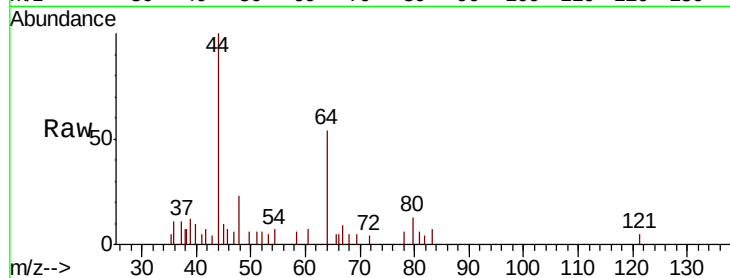
Z3-0704

Tgt Ion: 64 Resp: 85

Ion Ratio Lower Upper

64 100

66 31.7 25.1 37.7



#11

Tert butyl alcohol

Concen: 4.051 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011493.D

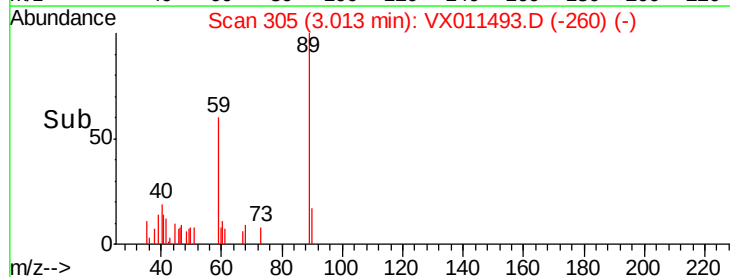
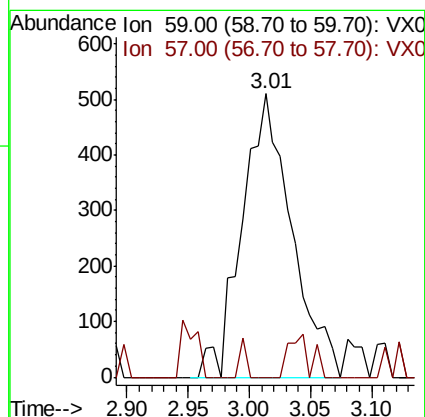
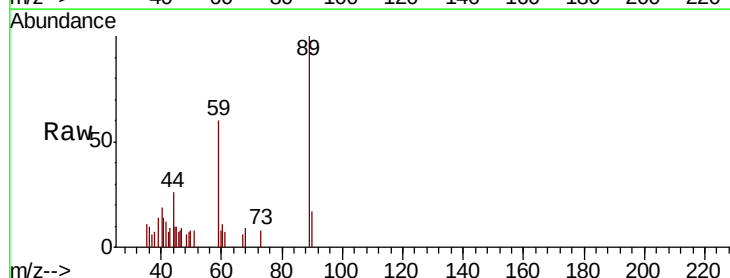
Acq: 12 Aug 2019 19:00

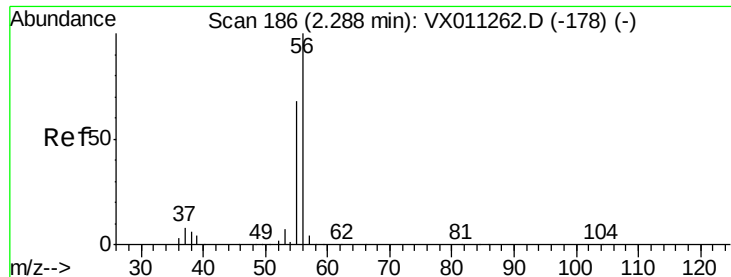
Tgt Ion: 59 Resp: 1440

Ion Ratio Lower Upper

59 100

57 1.8 8.3 12.5#

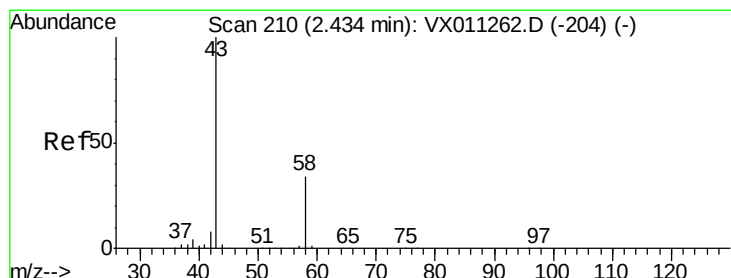
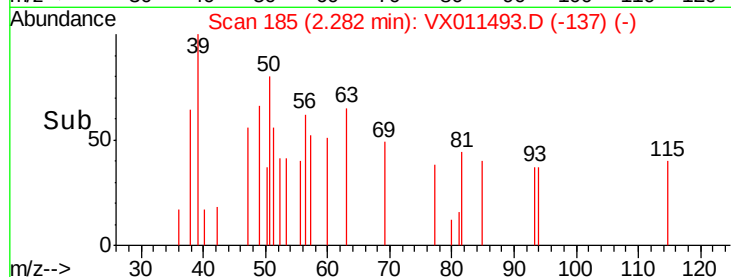
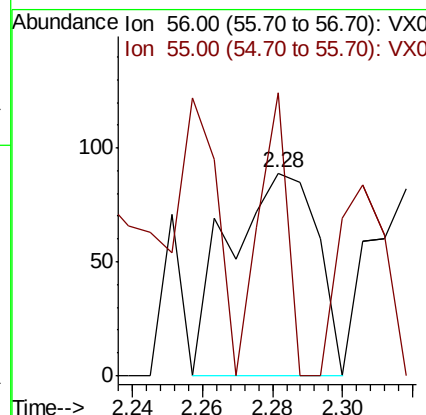
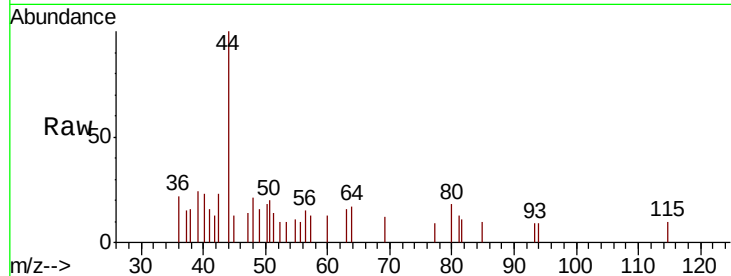




#13  
Acrolein  
Concen: 0.280 ug/l  
RT: 2.28 min Scan# 185  
Delta R.T. -0.01 min  
Lab File: VX011493.D  
Acq: 12 Aug 2019 19:00

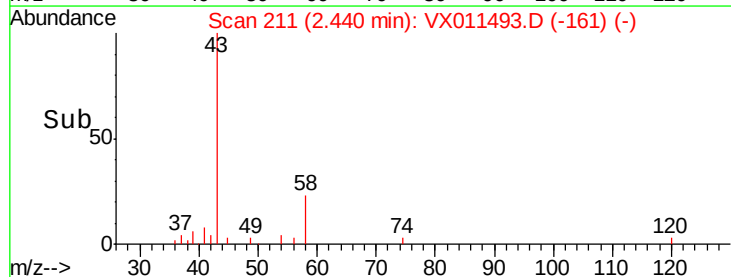
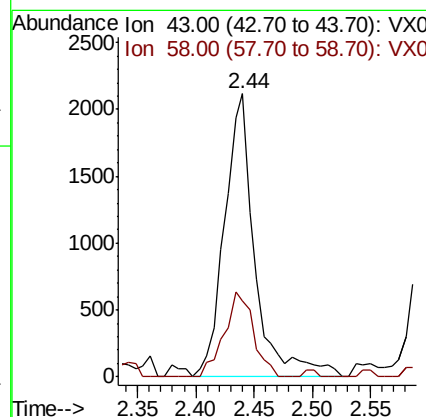
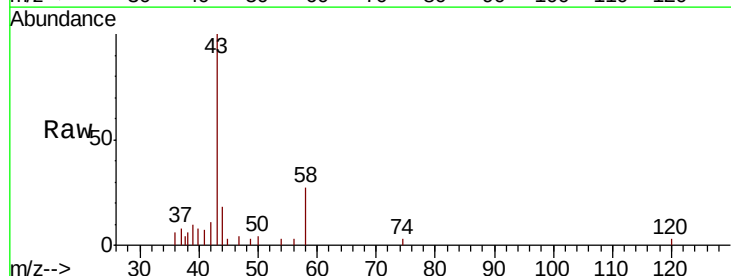
Instrument :  
MSVOA\_X  
ClientSampled :  
Z3-0704

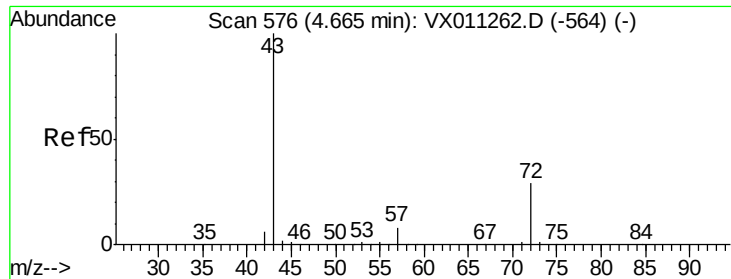
Tgt Ion: 56 Resp: 156  
Ion Ratio Lower Upper  
56 100  
55 44.2 56.0 84.0#



#16  
Acetone  
Concen: 4.470 ug/l  
RT: 2.44 min Scan# 211  
Delta R.T. 0.01 min  
Lab File: VX011493.D  
Acq: 12 Aug 2019 19:00

Tgt Ion: 43 Resp: 3814  
Ion Ratio Lower Upper  
43 100  
58 26.8 27.4 41.0#





#25

2-Butanone

Concen: 0.493 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX011493.D

Acq: 12 Aug 2019 19:00

Instrument :

MSVOA\_X

ClientSampled :

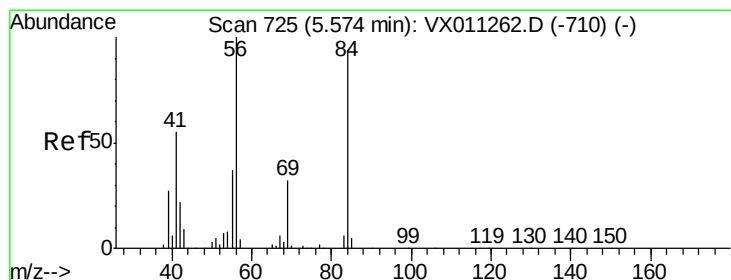
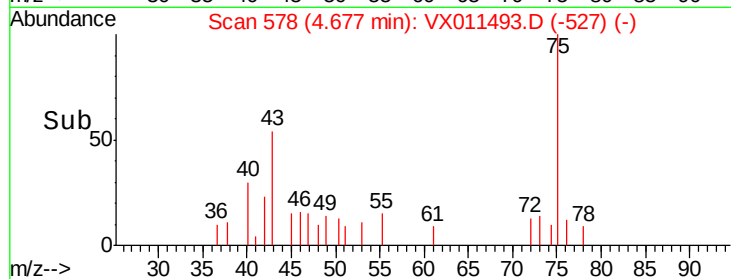
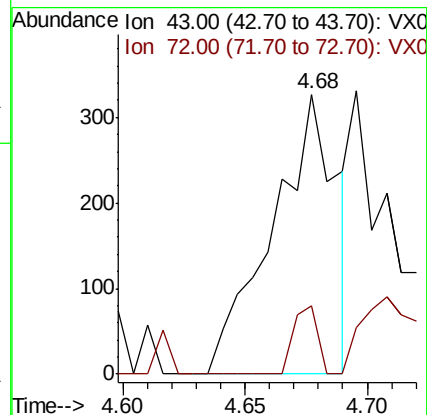
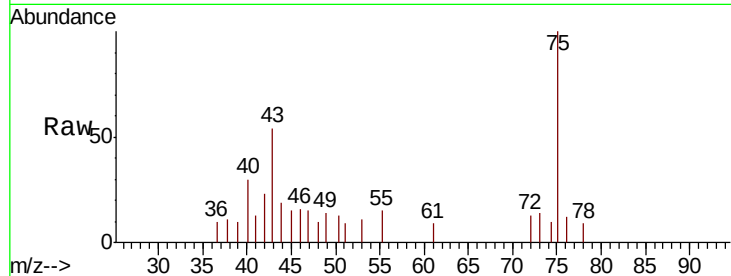
Z3-0704

Tgt Ion: 43 Resp: 598

Ion Ratio Lower Upper

43 100

72 24.5 23.2 34.8



#31

Cyclohexane

Concen: 1.612 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX011493.D

Acq: 12 Aug 2019 19:00

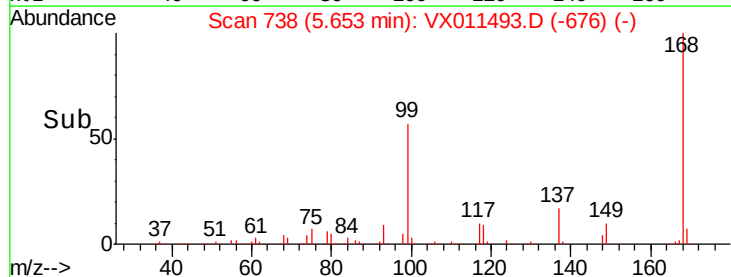
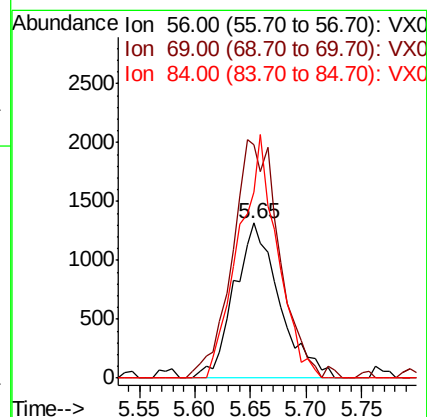
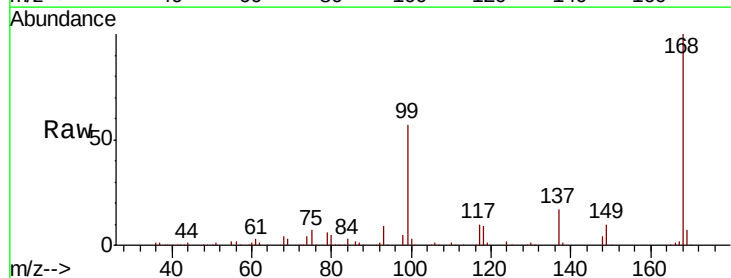
Tgt Ion: 56 Resp: 3722

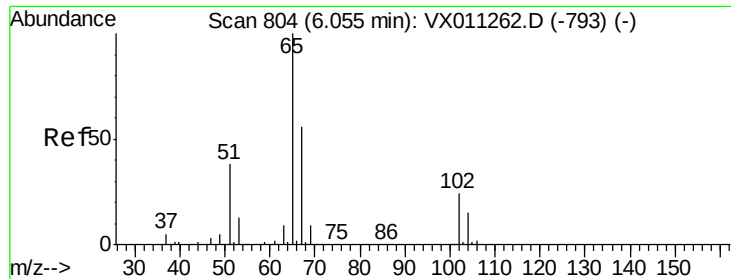
Ion Ratio Lower Upper

56 100

69 150.2 25.5 38.3#

84 119.8 75.0 112.4#

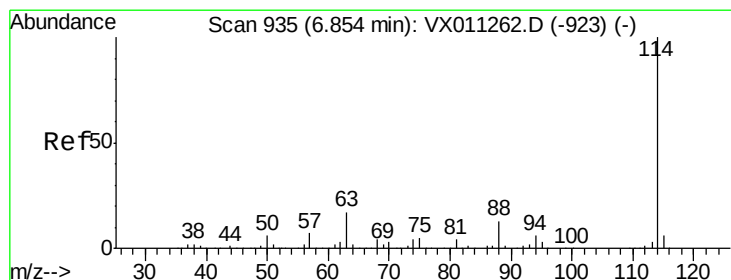
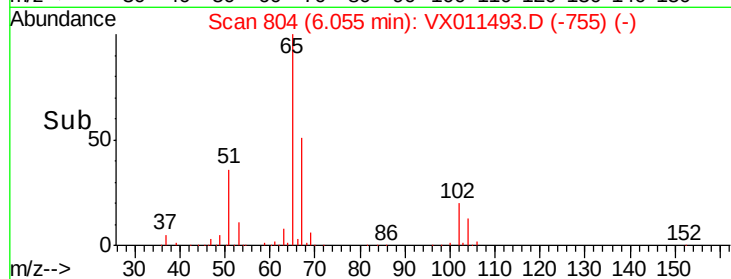
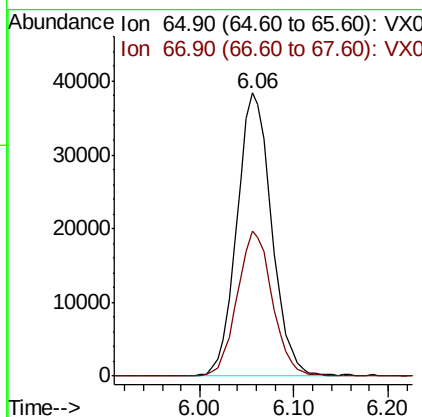
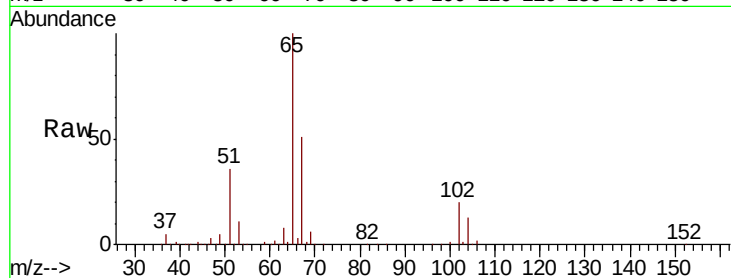




#33  
 1,2-Dichloroethane-d4  
 Concen: 55.324 ug/l  
 RT: 6.06 min Scan# 804  
 Delta R.T. -0.00 min  
 Lab File: VX011493.D  
 Acq: 12 Aug 2019 19:00

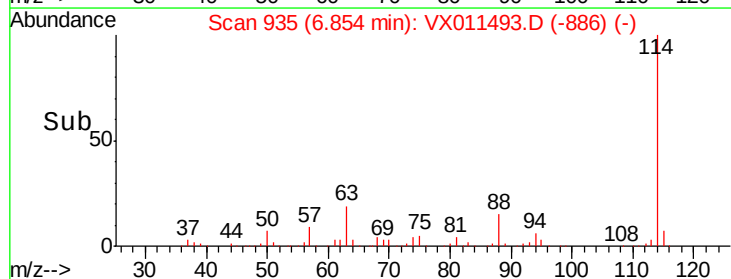
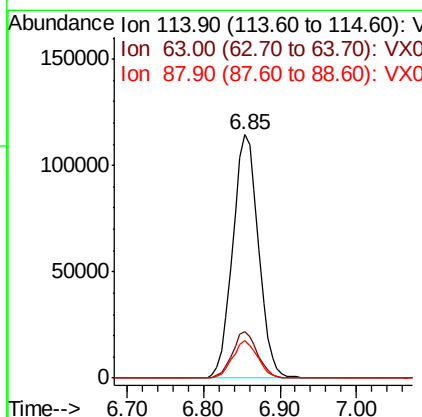
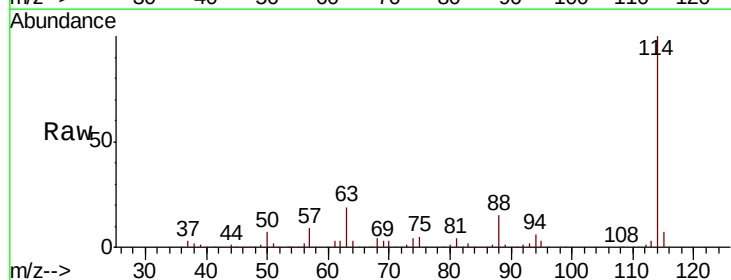
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z3-0704

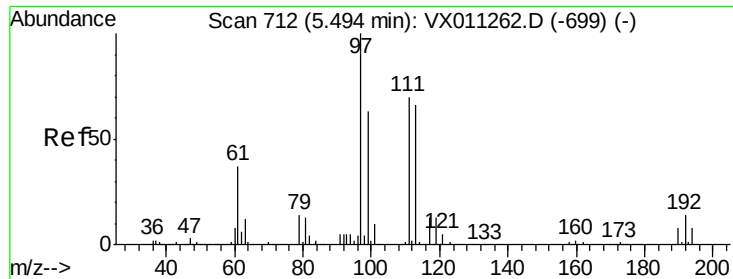
Tgt Ion: 65 Resp: 99183  
 Ion Ratio Lower Upper  
 65 100  
 67 51.8 0.0 110.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 935  
 Delta R.T. -0.00 min  
 Lab File: VX011493.D  
 Acq: 12 Aug 2019 19:00

Tgt Ion: 114 Resp: 267120  
 Ion Ratio Lower Upper  
 114 100  
 63 18.9 0.0 34.0  
 88 15.3 0.0 26.4

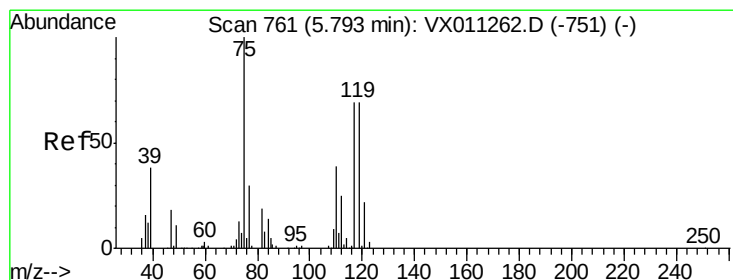
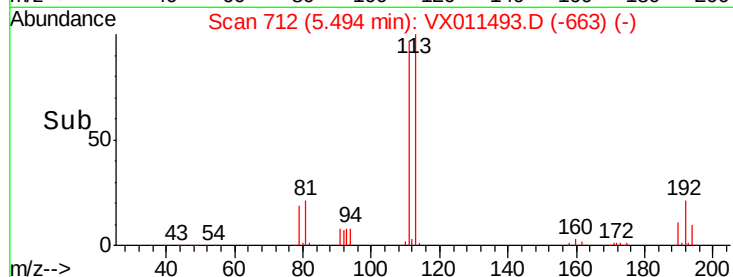
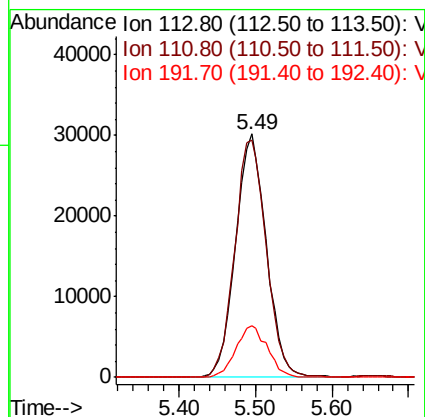
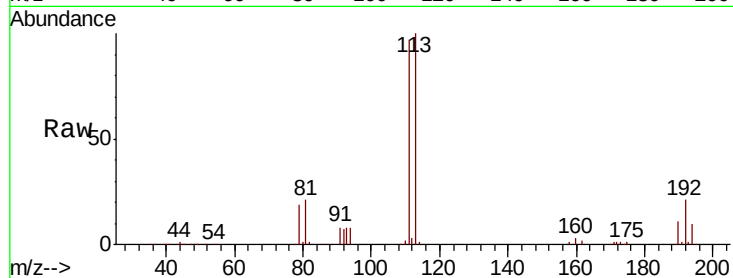




#35  
 Dibromofluoromethane  
 Concen: 48.173 ug/l  
 RT: 5.49 min Scan# 712  
 Delta R.T. -0.00 min  
 Lab File: VX011493.D  
 Acq: 12 Aug 2019 19:00

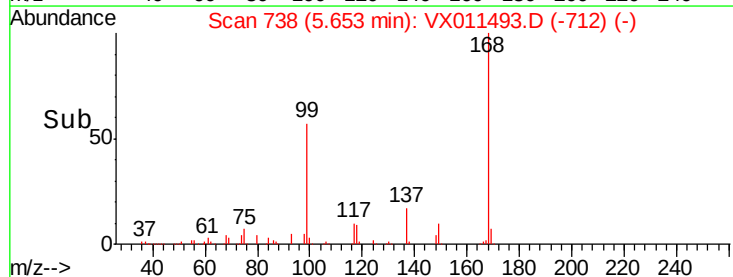
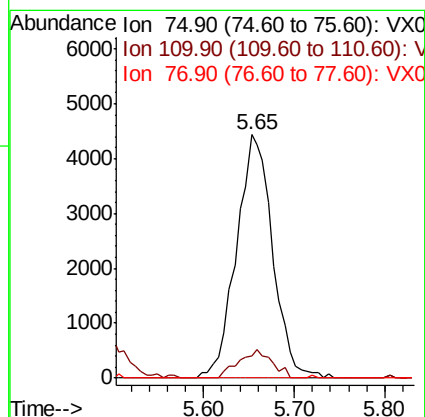
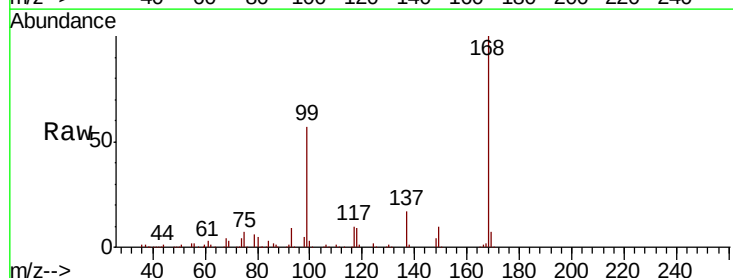
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z3-0704

Tgt Ion:113 Resp: 84012  
 Ion Ratio Lower Upper  
 113 100  
 111 100.1 81.9 122.9  
 192 21.8 17.8 26.8

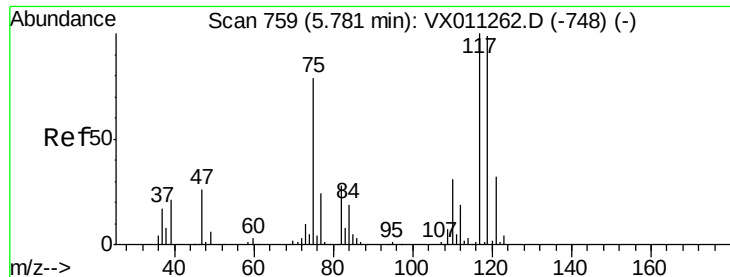


#36  
 1,1-Dichloropropene  
 Concen: 5.236 ug/l  
 RT: 5.65 min Scan# 738  
 Delta R.T. -0.14 min  
 Lab File: VX011493.D  
 Acq: 12 Aug 2019 19:00

Tgt Ion: 75 Resp: 12211  
 Ion Ratio Lower Upper  
 75 100  
 110 10.6 20.0 59.9#  
 77 0.0 24.8 37.2#







#38

Carbon Tetrachloride

Concen: 7.249 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX011493.D

Acq: 12 Aug 2019 19:00

Instrument :

MSVOA\_X

ClientSampled :

Z3-0704

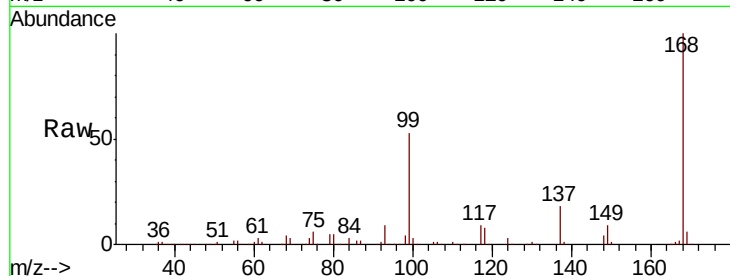
Tgt Ion:117 Resp: 17009

Ion Ratio Lower Upper

117 100

119 5.4 79.0 118.4#

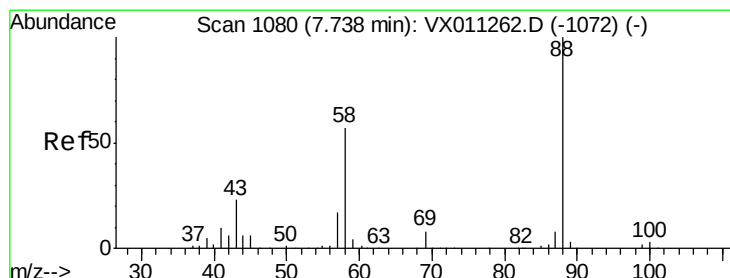
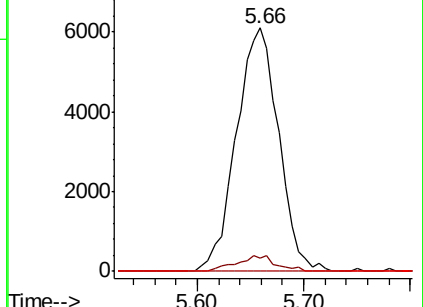
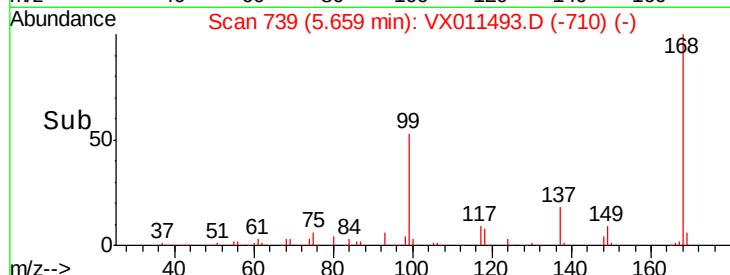
121 0.0 25.9 38.9#



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: 0.490 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.06 min

Lab File: VX011493.D

Acq: 12 Aug 2019 19:00

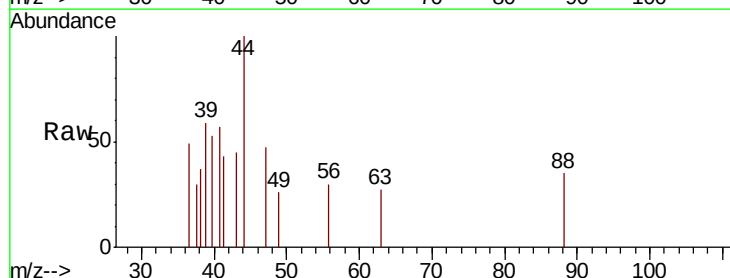
Tgt Ion: 88 Resp: 25

Ion Ratio Lower Upper

88 100

43 288.0 22.2 33.2#

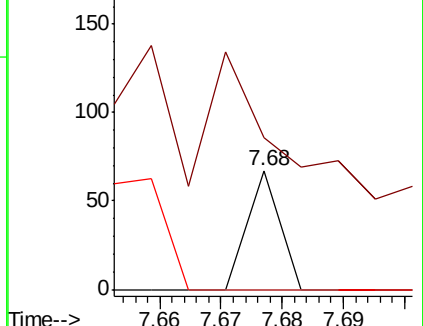
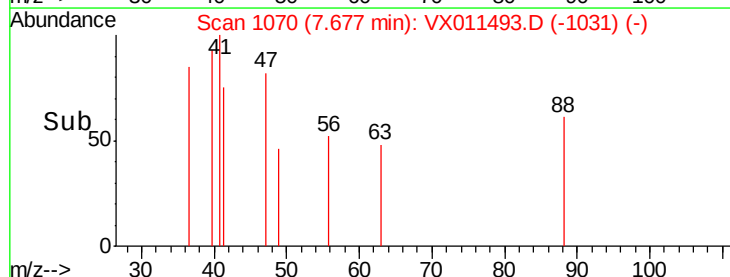
58 180.0 47.8 71.8#

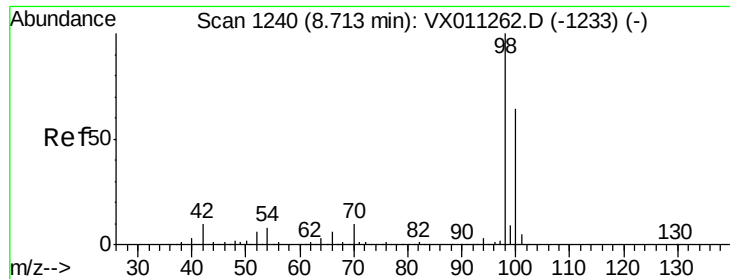


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.170 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011493.D

Acq: 12 Aug 2019 19:00

Instrument :

MSVOA\_X

ClientSampleId :

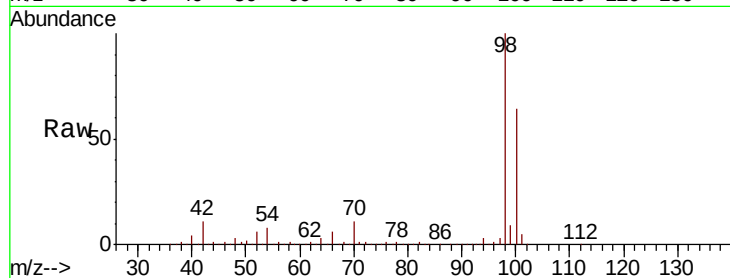
Z3-0704

Tgt Ion: 98 Resp: 317101

Ion Ratio Lower Upper

98 100

100 63.6 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

250000

200000

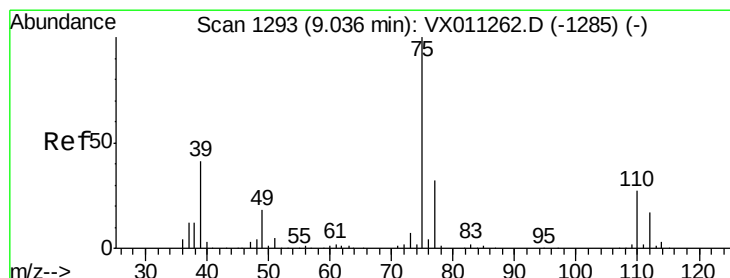
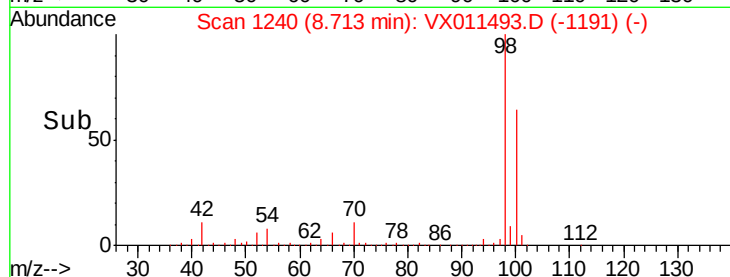
150000

100000

50000

0

Time-->



#53

t-1,3-Dichloropropene

Concen: 2.846 ug/l

RT: 9.04 min Scan# 1293

Delta R.T. 0.00 min

Lab File: VX011493.D

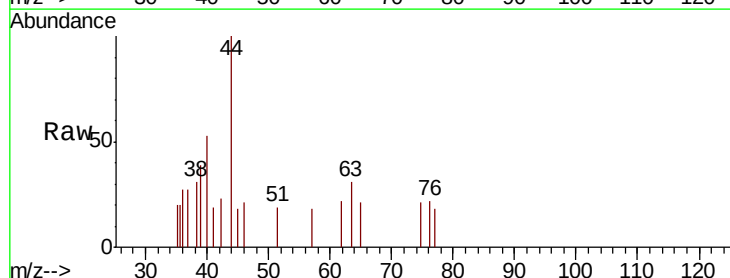
Acq: 12 Aug 2019 19:00

Tgt Ion: 75 Resp: 22

Ion Ratio Lower Upper

75 100

77 88.1 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

9.04

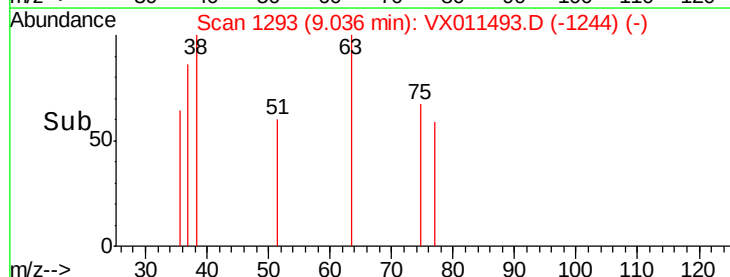
60

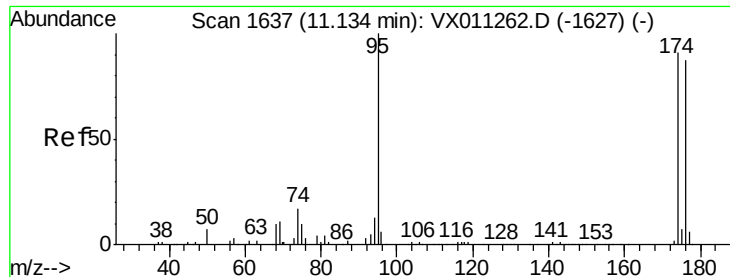
40

20

0

Time-->

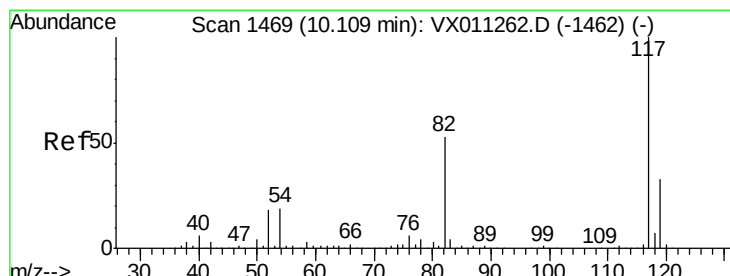
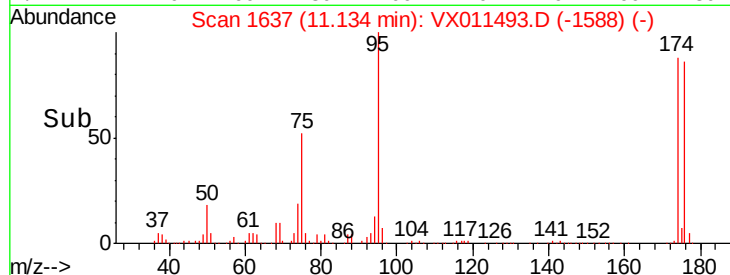
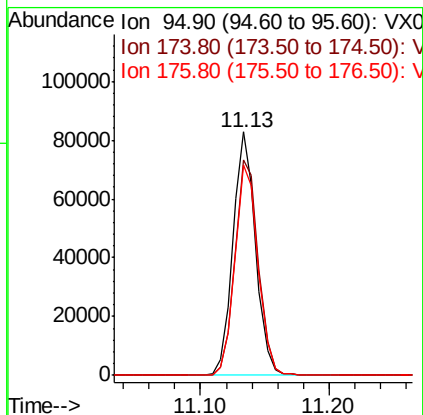
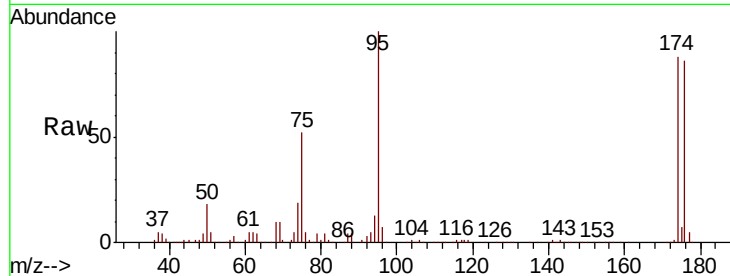




#62  
4-Bromofluorobenzene  
Concen: 43.289 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. -0.00 min  
Lab File: VX011493.D  
Acq: 12 Aug 2019 19:00

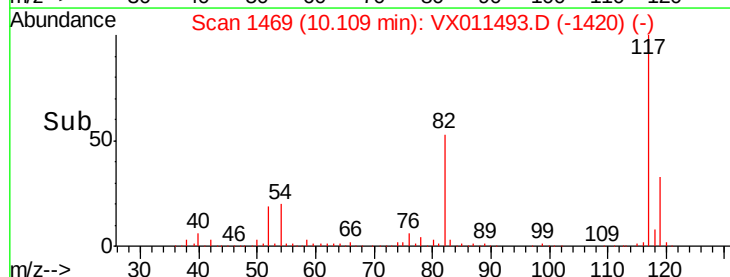
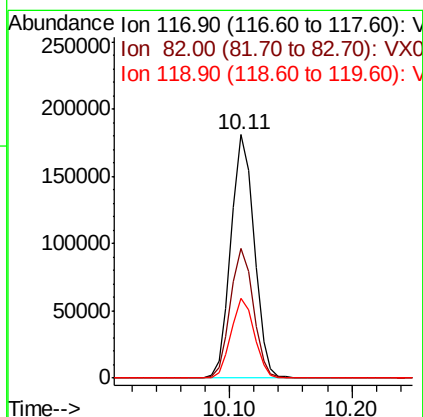
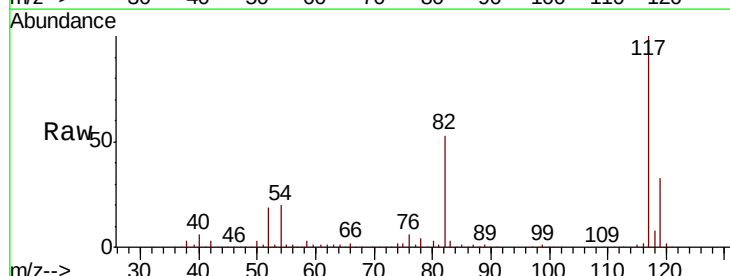
Instrument :  
MSVOA\_X  
ClientSampled :  
Z3-0704

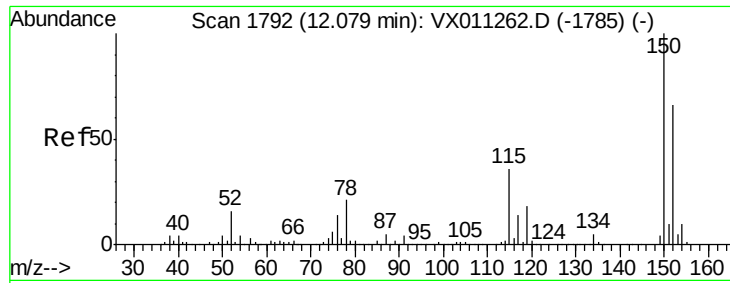
Tgt Ion: 95 Resp: 101741  
Ion Ratio Lower Upper  
95 100  
174 91.3 0.0 191.2  
176 88.4 0.0 184.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VX011493.D  
Acq: 12 Aug 2019 19:00

Tgt Ion: 117 Resp: 237952  
Ion Ratio Lower Upper  
117 100  
82 53.1 42.2 63.2  
119 32.6 26.6 39.8



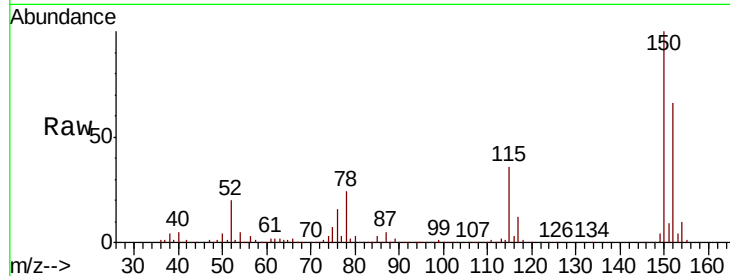


#72

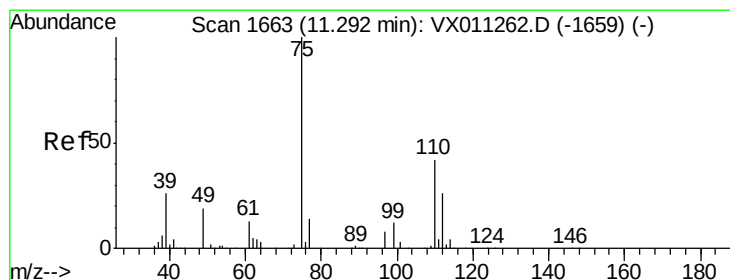
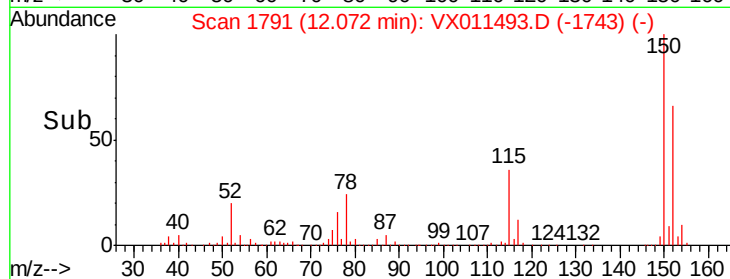
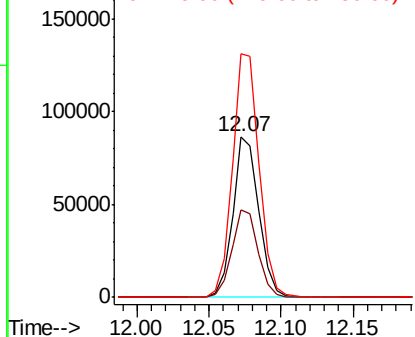
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1791  
Delta R.T. -0.01 min  
Lab File: VX011493.D  
Acq: 12 Aug 2019 19:00

Instrument :  
MSVOA\_X  
ClientSampleId :  
Z3-0704

Tgt Ion:152 Resp: 108676  
Ion Ratio Lower Upper  
152 100  
115 55.1 40.0 119.9  
150 156.2 0.0 350.4



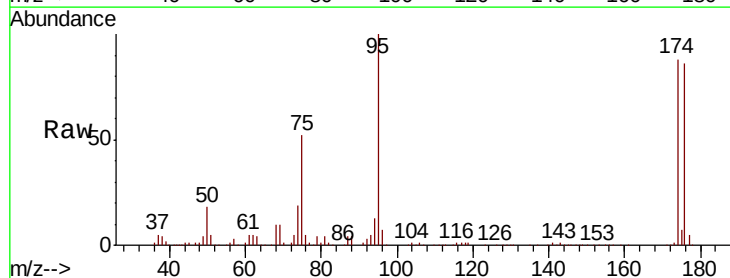
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



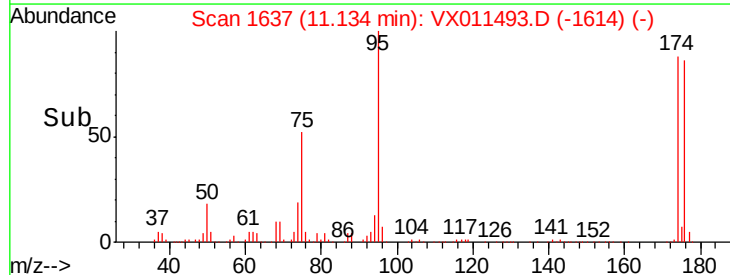
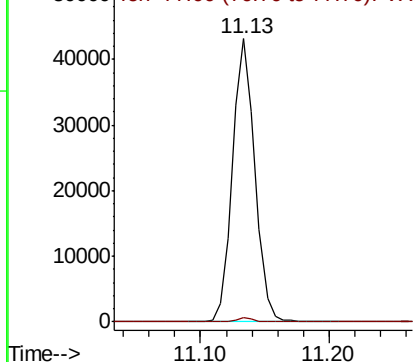
#76

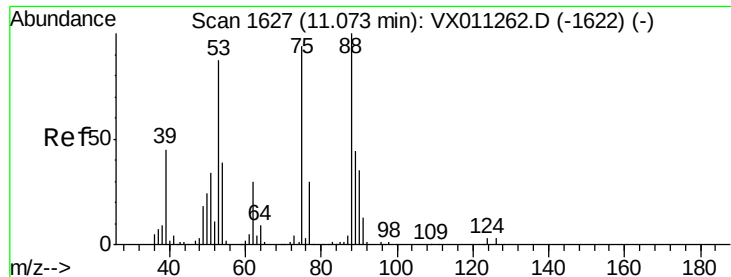
1,2,3-Trichloropropane  
Concen: 26.607 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. -0.16 min  
Lab File: VX011493.D  
Acq: 12 Aug 2019 19:00

Tgt Ion: 75 Resp: 52658  
Ion Ratio Lower Upper  
75 100  
77 1.3 21.1 63.4#



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: 69.141 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011493.D

Acq: 12 Aug 2019 19:00

Instrument :

MSVOA\_X

ClientSampleId :

Z3-0704

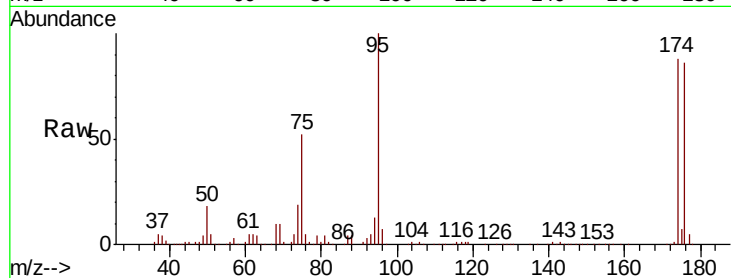
Tgt Ion: 75 Resp: 52658

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 37.9 56.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

