

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX092619\  
 Data File : VX012667.D  
 Acq On : 26 Sep 2019 12:26  
 Operator : JC/SP  
 Sample : K5048-07  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S49-TB-2019-6

Quant Time: Sep 26 23:32:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 23 12:27:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 172975   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 298770   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 248509   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 96850    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 125282   | 49.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.48%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 89242    | 50.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.32% |          |
| 50) Toluene-d8              | 8.71  | 98   | 350510   | 51.15 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.30% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 122127   | 45.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.66%  |          |

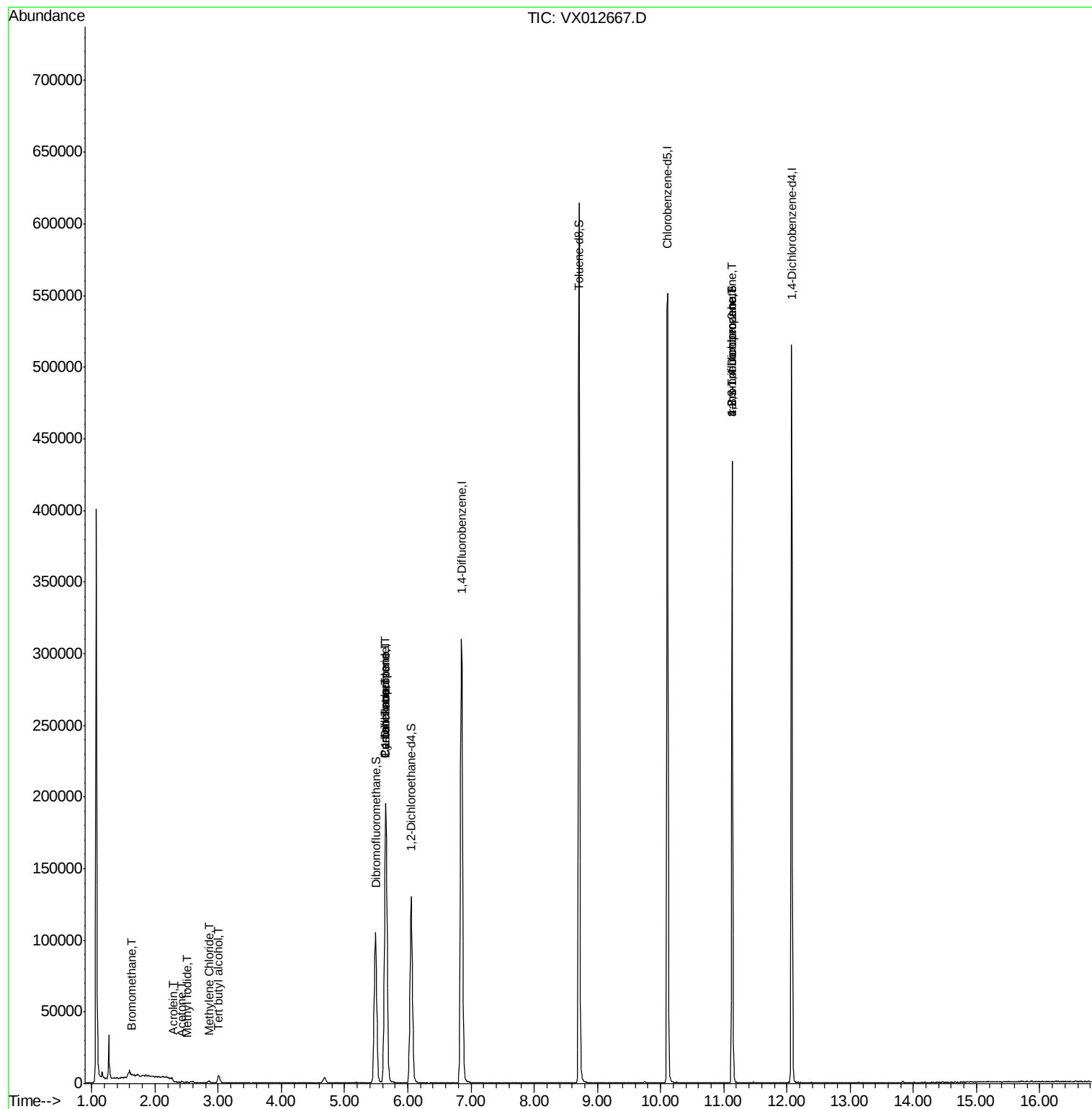
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 530      | 0.607  | ug/l   | 93     |
| 10) Methyl Iodide              | 2.50  | 142  | 326      | 5.100  | ug/l # | 87     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 3643     | 5.790  | ug/l # | 72     |
| 13) Acrolein                   | 2.29  | 56   | 113      | 10.542 | ug/l # | 15     |
| 16) Acetone                    | 2.42  | 43   | 969      | 0.726  | ug/l # | 68     |
| 20) Methylene Chloride         | 2.85  | 84   | 721      | 0.320  | ug/l # | 73     |
| 31) Cyclohexane                | 5.65  | 56   | 4622     | 1.318  | ug/l # | 8      |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 14945    | 5.190  | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 19628    | 6.710  | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 64449    | 25.157 | ug/l # | 38     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 64449    | 72.093 | ug/l # | 8      |

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

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Quant Title : SW846 8260  
QLast Update : Mon Sep 23 12:27:01 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012667.D

Acq: 26 Sep 2019 12:26

Instrument :

MSVOA\_X

ClientSampleId :

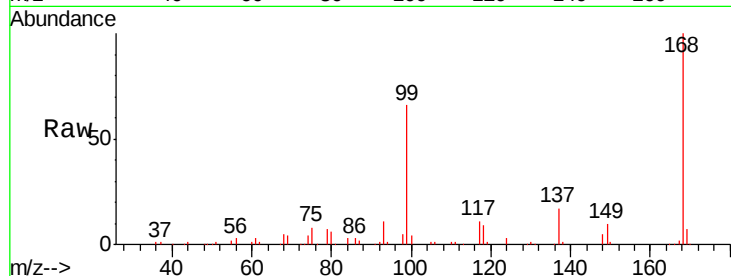
S49-TB-2019-6

Tgt Ion:168 Resp: 172975

Ion Ratio Lower Upper

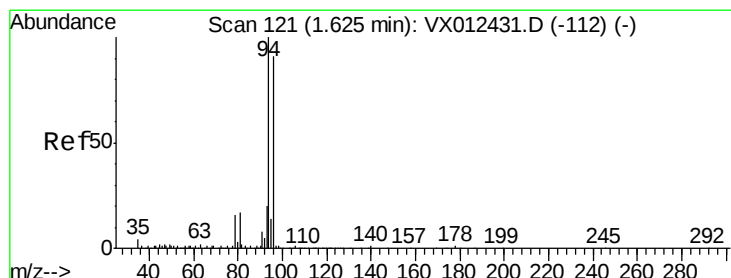
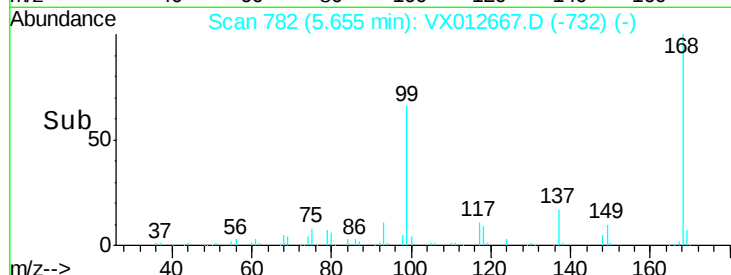
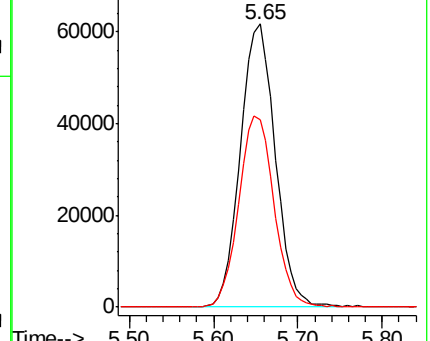
168 100

99 66.3 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.607 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012667.D

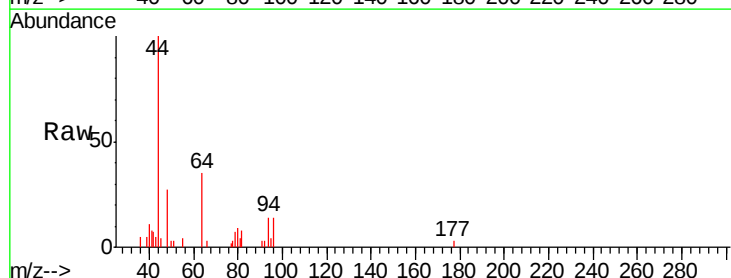
Acq: 26 Sep 2019 12:26

Tgt Ion: 94 Resp: 530

Ion Ratio Lower Upper

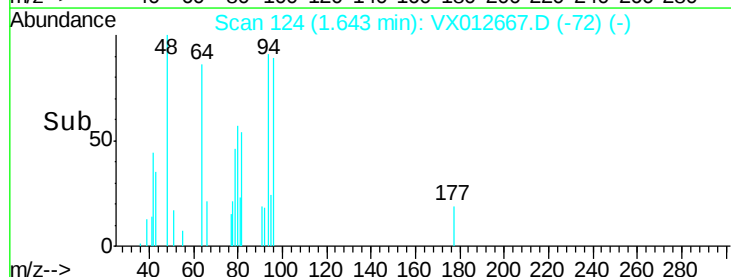
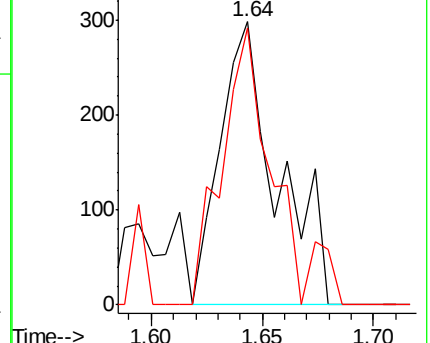
94 100

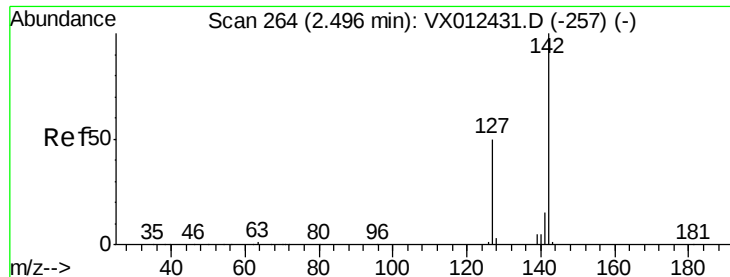
96 98.0 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

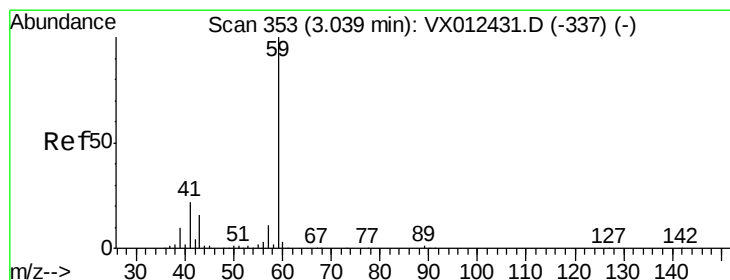
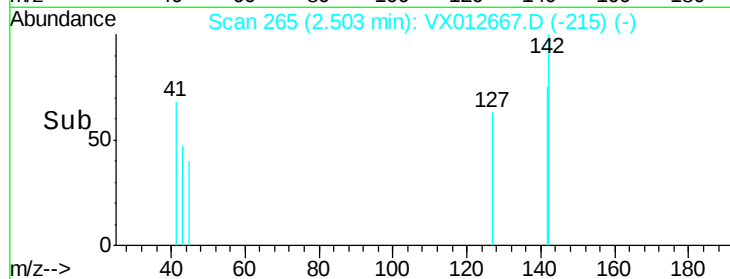
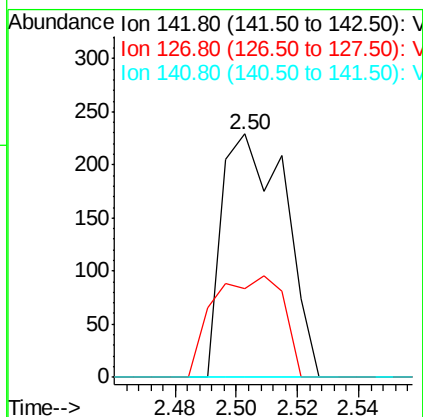
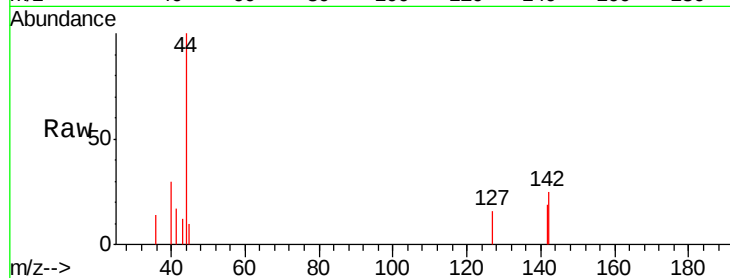




#10  
Methyl Iodide  
Concen: 5.100 ug/l  
RT: 2.50 min Scan# 265  
Delta R.T. 0.01 min  
Lab File: VX012667.D  
Acq: 26 Sep 2019 12:26

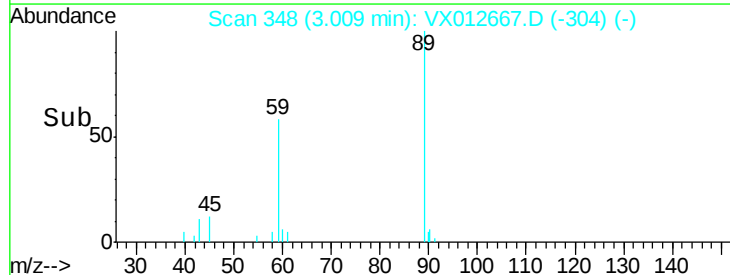
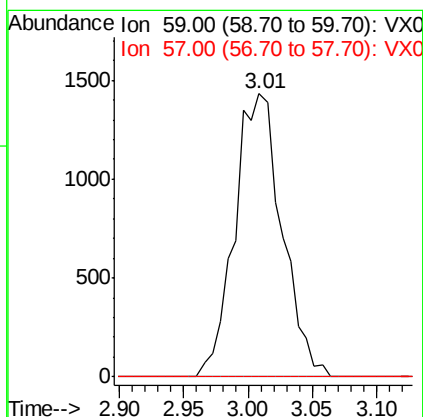
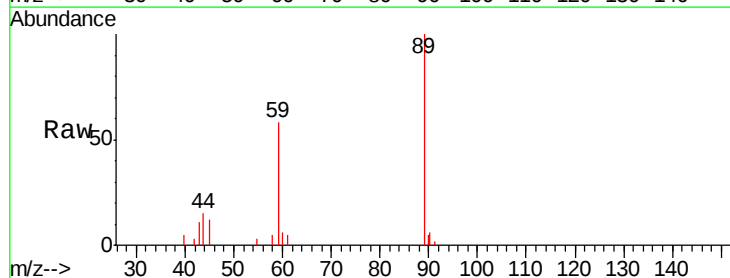
Instrument :  
MSVOA\_X  
ClientSampleId :  
S49-TB-2019-6

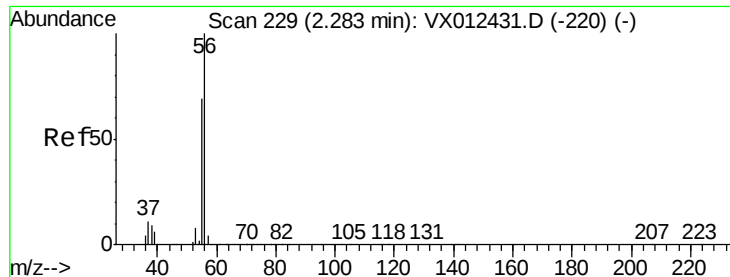
Tgt Ion: 142 Resp: 326  
Ion Ratio Lower Upper  
142 100  
127 46.3 40.8 61.2  
141 0.0 12.1 18.1#



#11  
Tert butyl alcohol  
Concen: 5.790 ug/l  
RT: 3.01 min Scan# 348  
Delta R.T. -0.03 min  
Lab File: VX012667.D  
Acq: 26 Sep 2019 12:26

Tgt Ion: 59 Resp: 3643  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#





#13

Acrolein

Concen: 10.542 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX012667.D

Acq: 26 Sep 2019 12:26

Instrument :

MSVOA\_X

ClientSampleId :

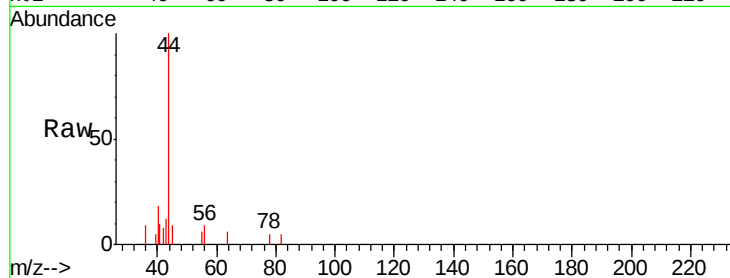
S49-TB-2019-6

Tgt Ion: 56 Resp: 113

Ion Ratio Lower Upper

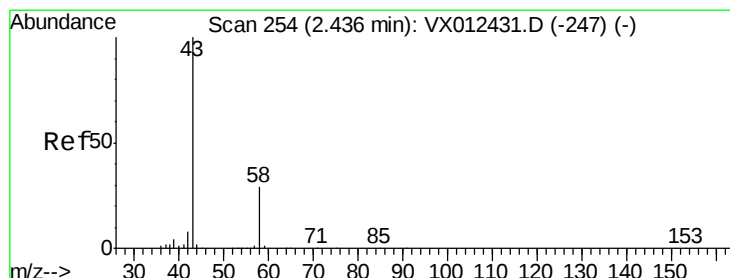
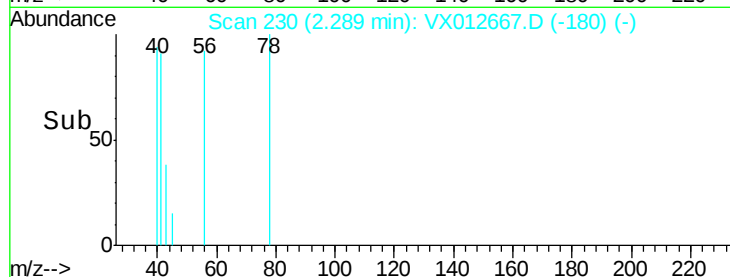
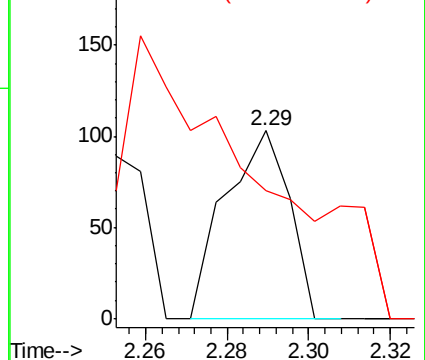
56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.726 ug/l

RT: 2.42 min Scan# 252

Delta R.T. -0.01 min

Lab File: VX012667.D

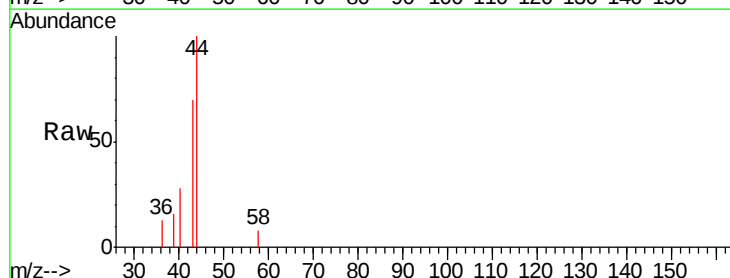
Acq: 26 Sep 2019 12:26

Tgt Ion: 43 Resp: 969

Ion Ratio Lower Upper

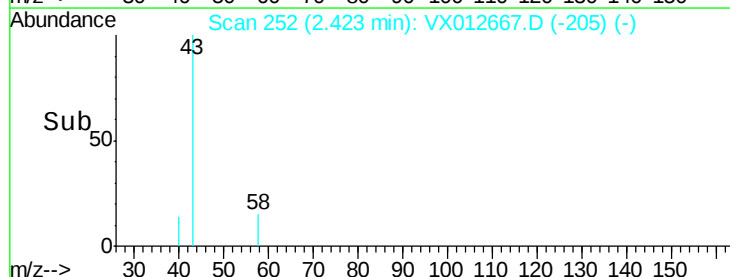
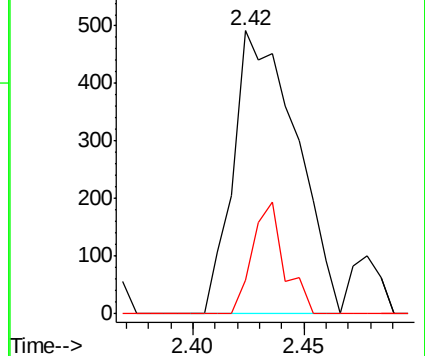
43 100

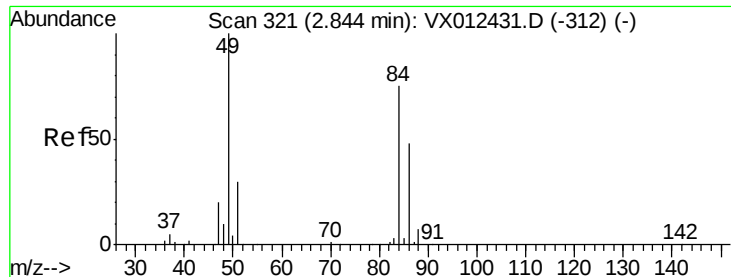
58 12.0 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

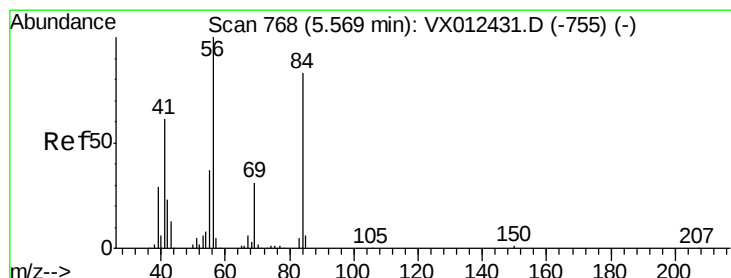
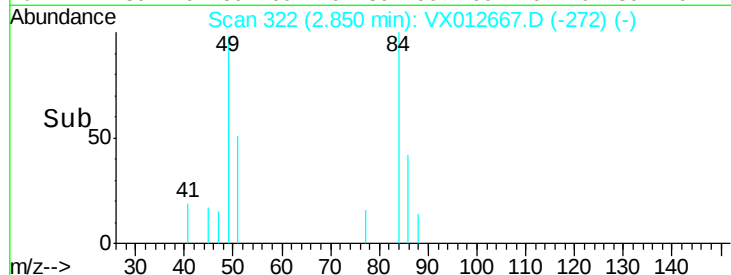
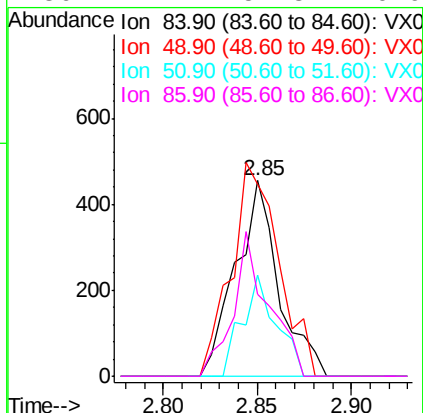
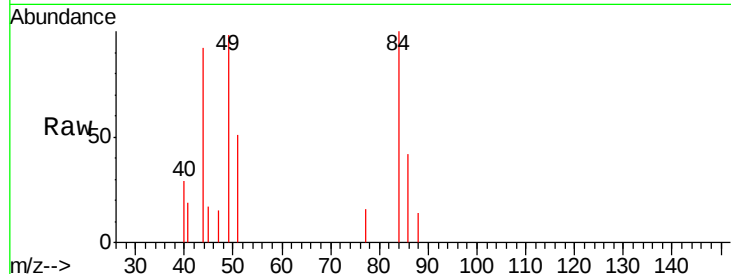




#20  
Methylene Chloride  
Concen: 0.320 ug/l  
RT: 2.85 min Scan# 322  
Delta R.T. 0.01 min  
Lab File: VX012667.D  
Acq: 26 Sep 2019 12:26

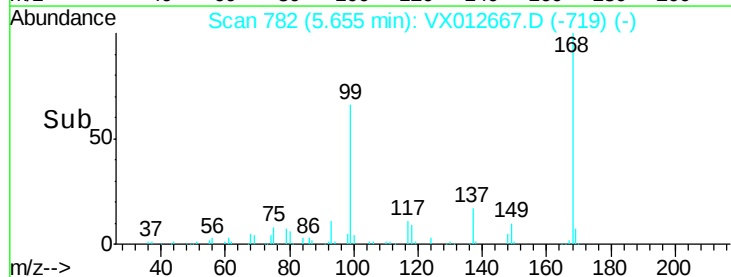
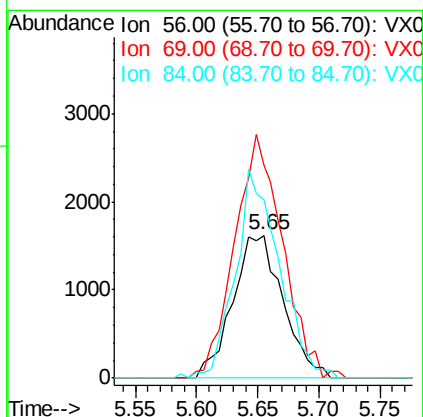
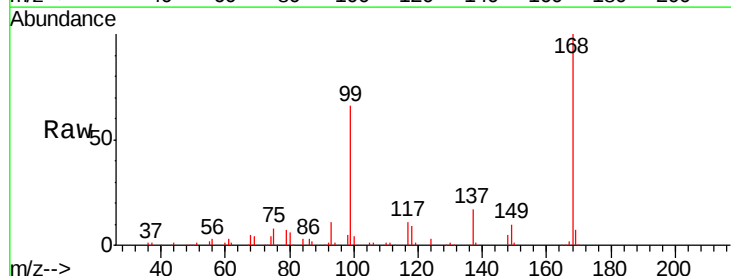
Instrument :  
MSVOA\_X  
ClientSampleId :  
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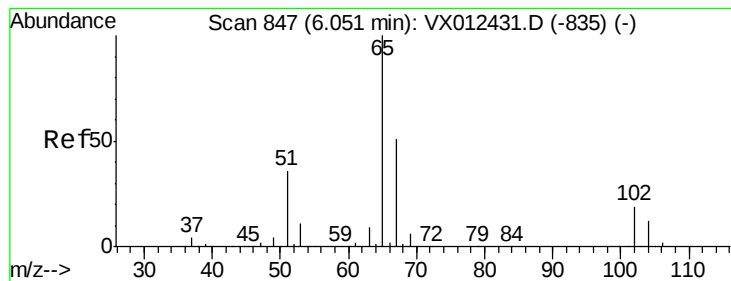
Tgt Ion: 84 Resp: 721  
Ion Ratio Lower Upper  
84 100  
49 98.2 106.8 160.2#  
51 51.4 32.3 48.5#  
86 42.2 51.3 76.9#



#31  
Cyclohexane  
Concen: 1.318 ug/l  
RT: 5.65 min Scan# 782  
Delta R.T. 0.09 min  
Lab File: VX012667.D  
Acq: 26 Sep 2019 12:26

Tgt Ion: 56 Resp: 4622  
Ion Ratio Lower Upper  
56 100  
69 149.6 25.0 37.6#  
84 124.6 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 49.738 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012667.D

Acq: 26 Sep 2019 12:26

Instrument :

MSVOA\_X

ClientSampleId :

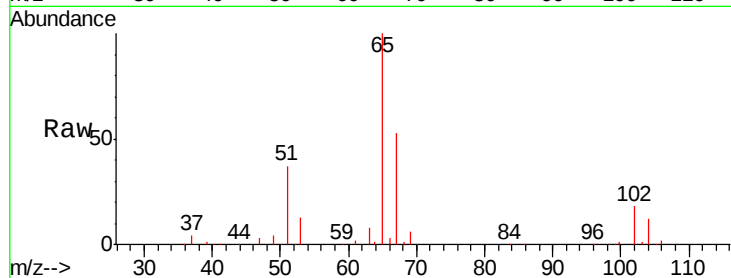
S49-TB-2019-6

Tgt Ion: 65 Resp: 125282

Ion Ratio Lower Upper

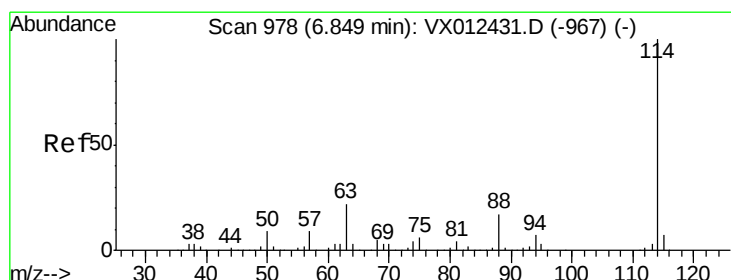
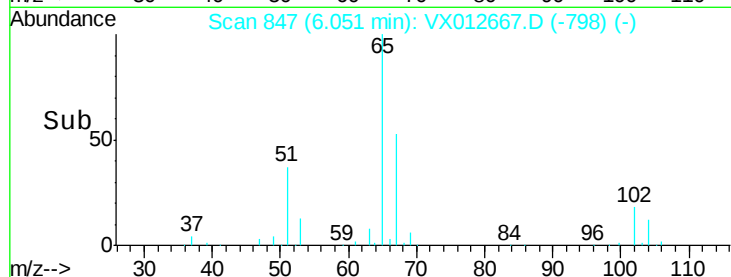
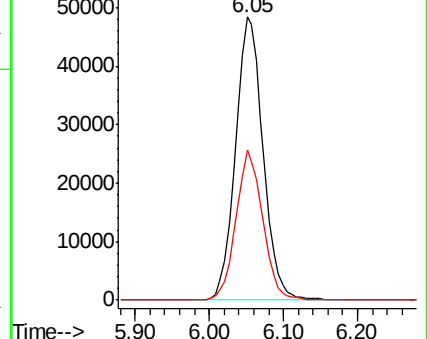
65 100

67 51.5 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012667.D

Acq: 26 Sep 2019 12:26

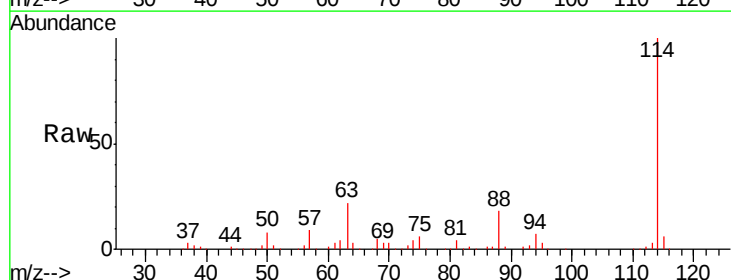
Tgt Ion: 114 Resp: 298770

Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.2

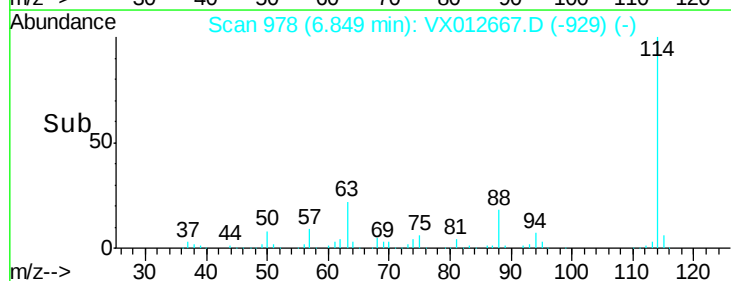
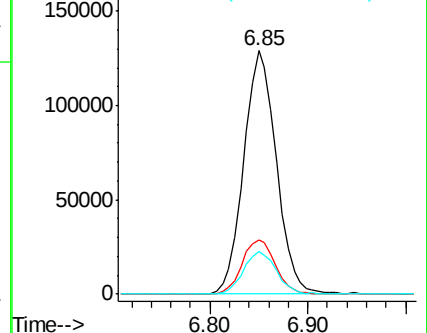
88 17.7 0.0 33.2

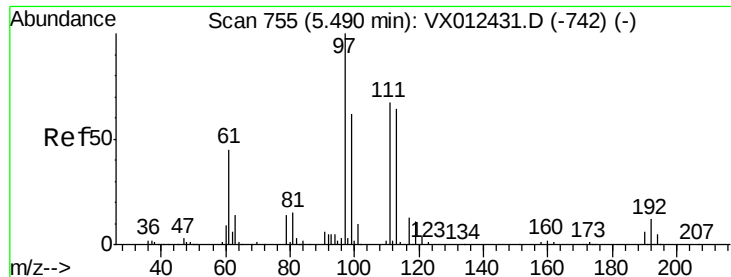


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

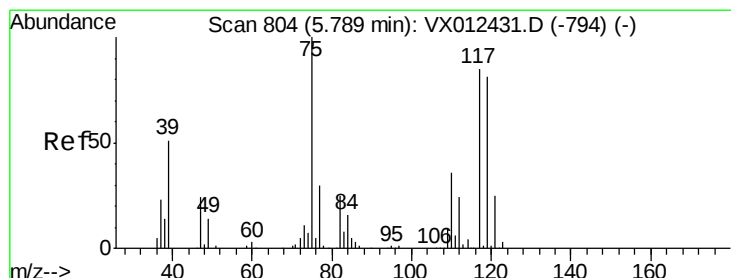
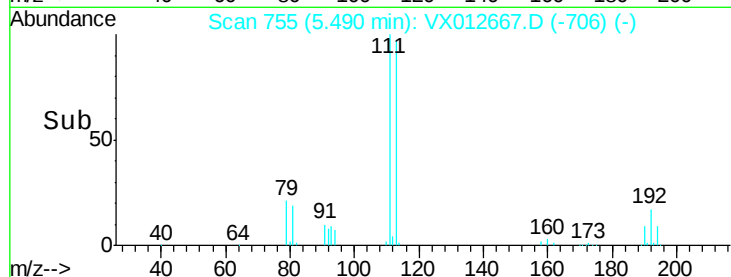
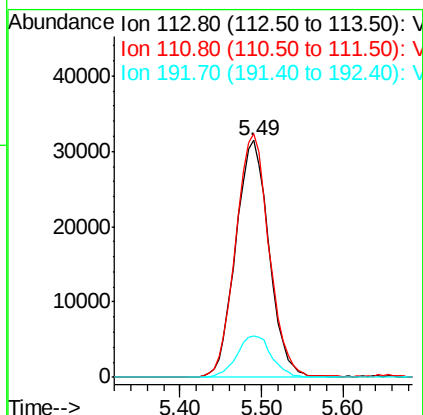
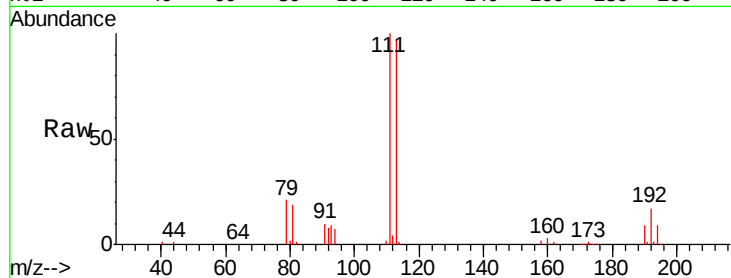




#35  
 Dibromofluoromethane  
 Concen: 50.156 ug/l  
 RT: 5.49 min Scan# 755  
 Delta R.T. 0.00 min  
 Lab File: VX012667.D  
 Acq: 26 Sep 2019 12:26

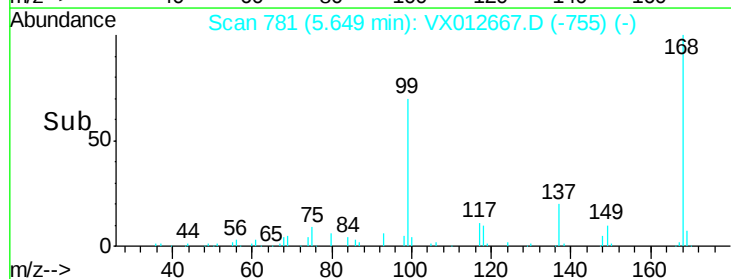
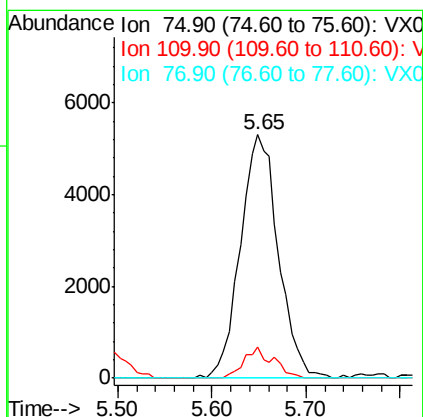
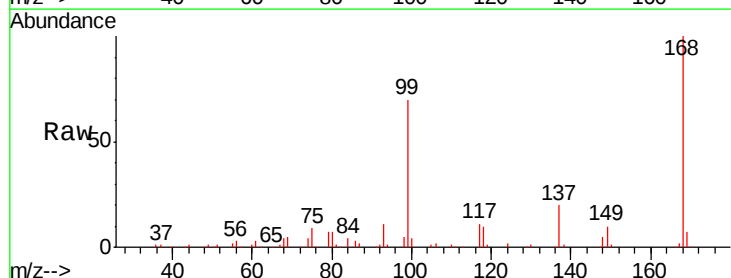
Instrument :  
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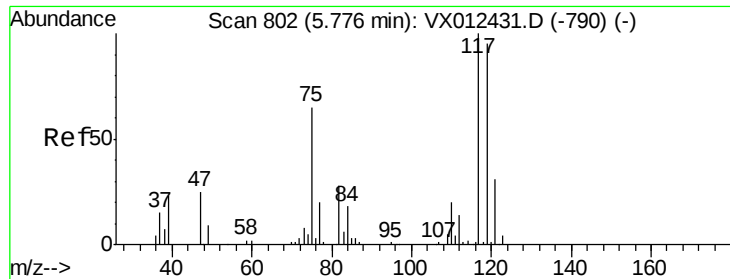
Tgt Ion:113 Resp: 89242  
 Ion Ratio Lower Upper  
 113 100  
 111 103.1 83.4 125.2  
 192 18.1 14.4 21.6



#36  
 1,1-Dichloropropene  
 Concen: 5.190 ug/l  
 RT: 5.65 min Scan# 781  
 Delta R.T. -0.14 min  
 Lab File: VX012667.D  
 Acq: 26 Sep 2019 12:26

Tgt Ion: 75 Resp: 14945  
 Ion Ratio Lower Upper  
 75 100  
 110 9.8 16.7 50.0#  
 77 0.0 24.2 36.2#

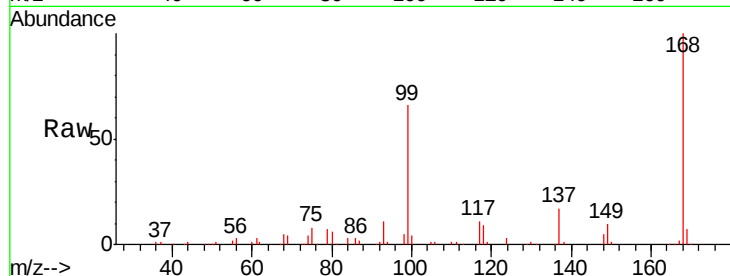




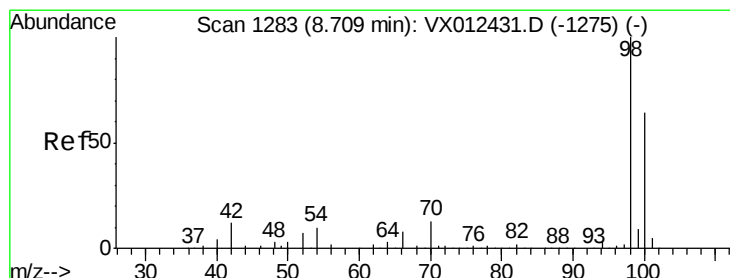
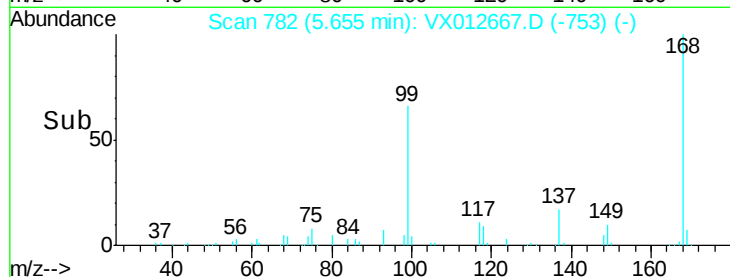
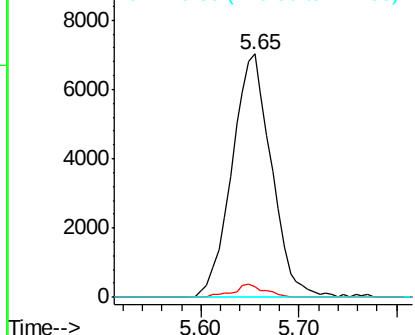
#38  
Carbon Tetrachloride  
Concen: 6.710 ug/l  
RT: 5.65 min Scan# 782  
Delta R.T. -0.12 min  
Lab File: VX012667.D  
Acq: 26 Sep 2019 12:26

Instrument :  
MSVOA\_X  
ClientSampleId :  
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Tgt Ion:117 Resp: 19628  
Ion Ratio Lower Upper  
117 100  
119 4.5 75.7 113.5#  
121 0.0 24.2 36.4#

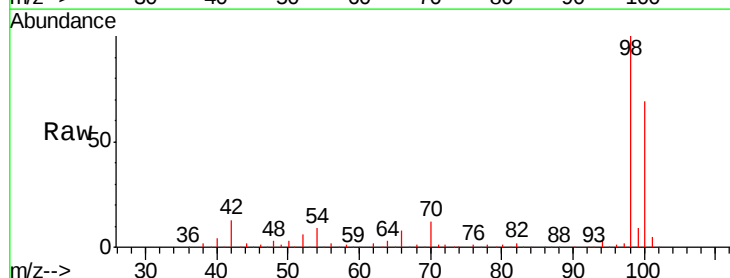


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

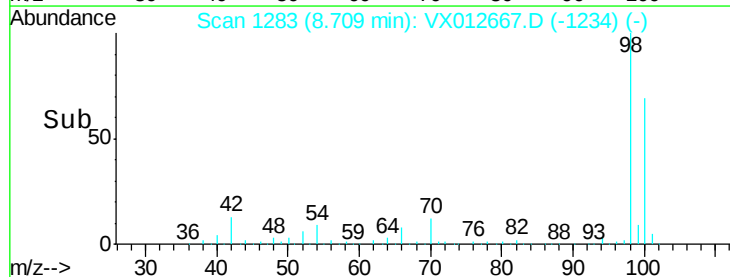
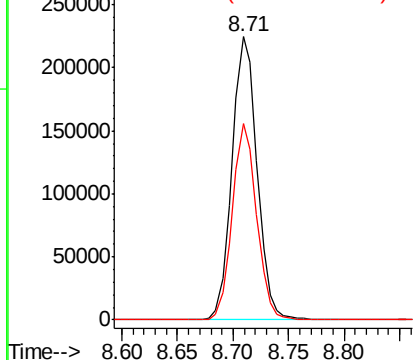


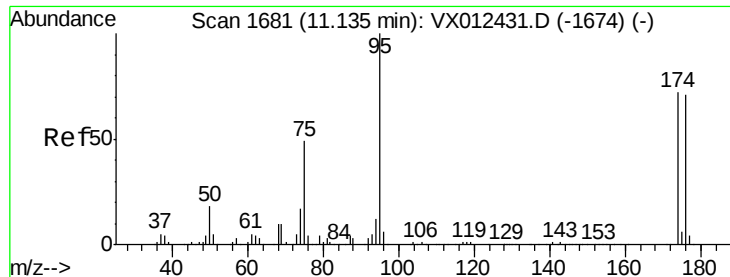
#50  
Toluene-d8  
Concen: 51.153 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX012667.D  
Acq: 26 Sep 2019 12:26

Tgt Ion: 98 Resp: 350510  
Ion Ratio Lower Upper  
98 100  
100 67.3 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.328 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012667.D

Acq: 26 Sep 2019 12:26

Instrument :

MSVOA\_X

ClientSampleId :

S49-TB-2019-6

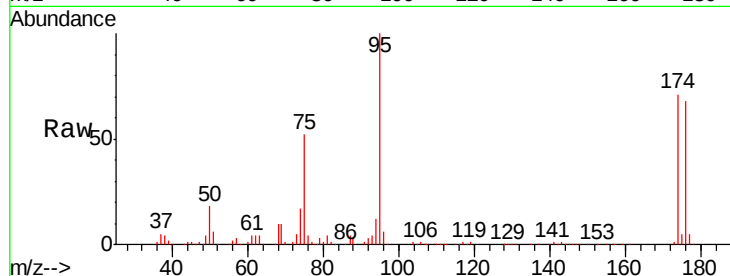
Tgt Ion: 95 Resp: 122127

Ion Ratio Lower Upper

95 100

174 66.4 0.0 140.0

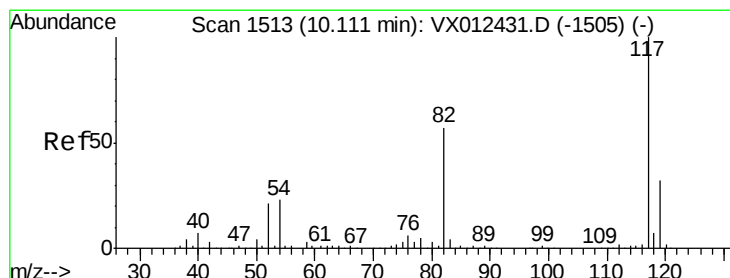
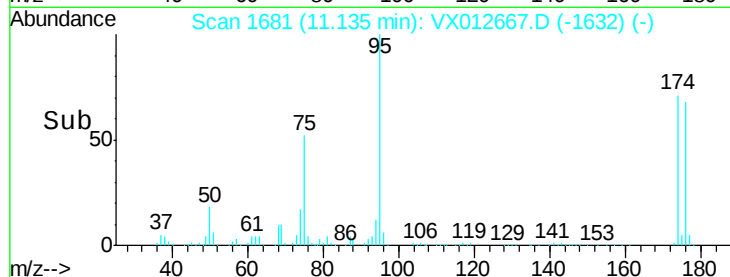
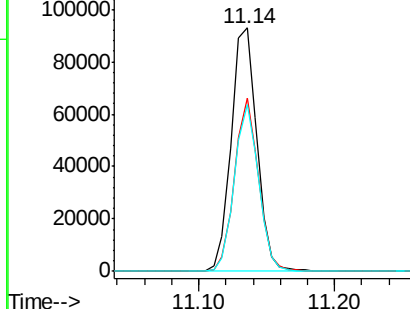
176 64.8 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX012667.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX012667.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX012667.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012667.D

Acq: 26 Sep 2019 12:26

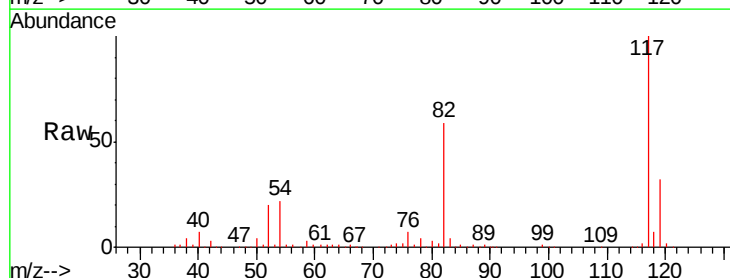
Tgt Ion: 117 Resp: 248509

Ion Ratio Lower Upper

117 100

82 58.6 45.9 68.9

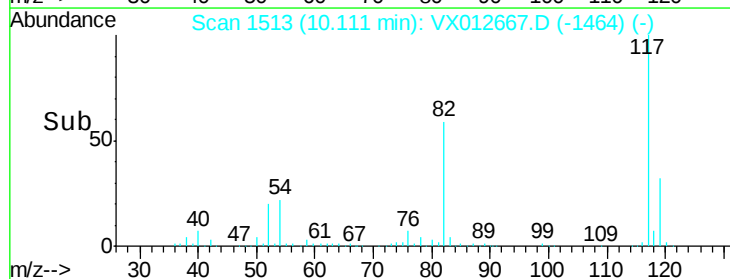
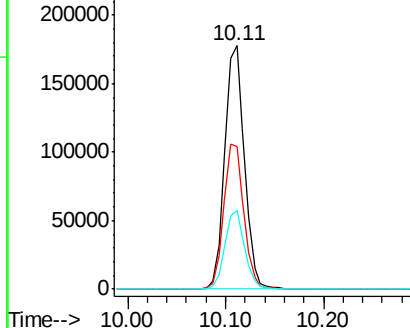
119 32.3 25.3 37.9

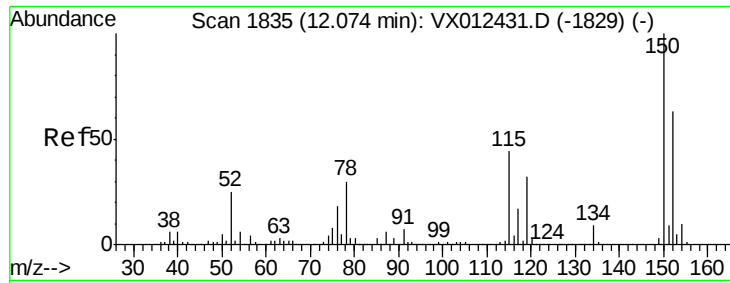


Abundance Ion 116.90 (116.60 to 117.60): VX012667.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX012667.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX012667.D (-1464) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012667.D

Acq: 26 Sep 2019 12:26

Instrument :

MSVOA\_X

ClientSampleId :

S49-TB-2019-6

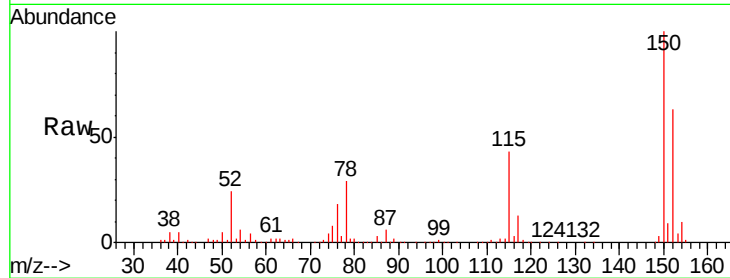
Tgt Ion:152 Resp: 96850

Ion Ratio Lower Upper

152 100

115 66.4 44.1 132.3

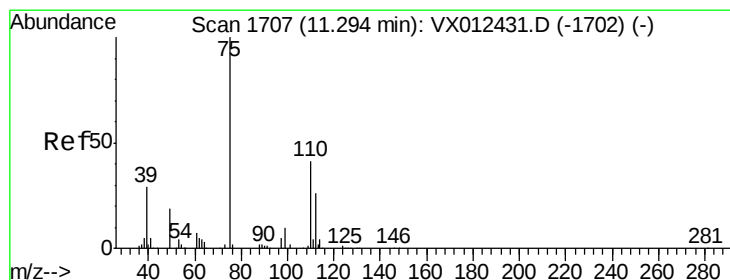
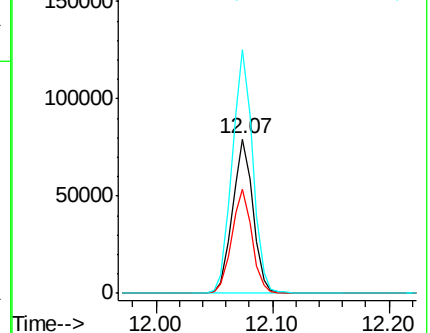
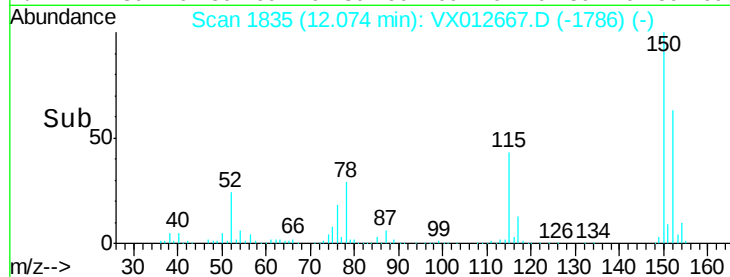
150 159.1 0.0 343.8



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: 25.157 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012667.D

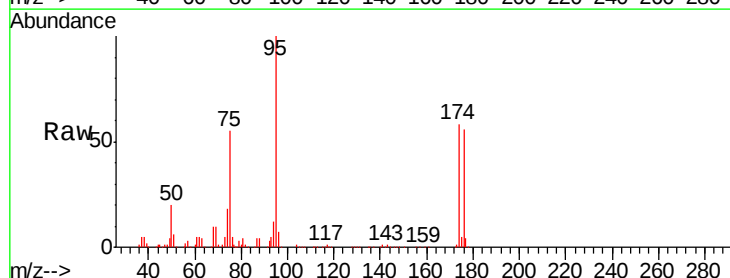
Acq: 26 Sep 2019 12:26

Tgt Ion: 75 Resp: 64449

Ion Ratio Lower Upper

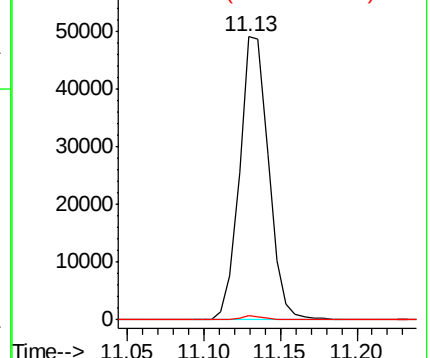
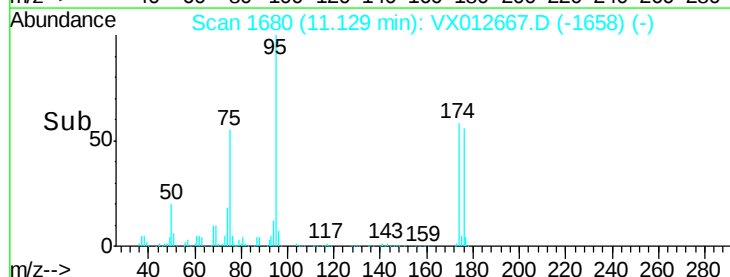
75 100

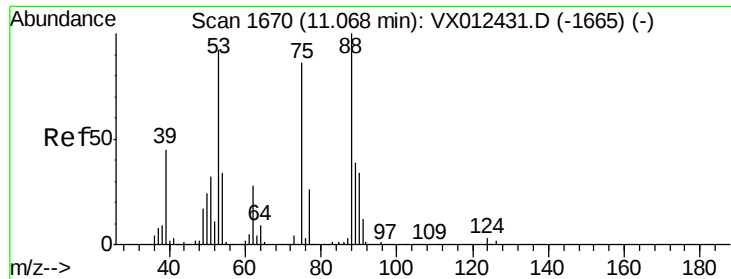
77 1.2 19.7 59.0#



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: 72.093 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012667.D

Acq: 26 Sep 2019 12:26

Instrument :

MSVOA\_X

ClientSampleId :

S49-TB-2019-6

Tgt Ion: 75 Resp: 64449

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#

