

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120421\  
 Data File : VX025513.D  
 Acq On : 04 Dec 2021 11:41  
 Operator : JC/MD  
 Sample : VX1204MBL01  
 Misc : 5.0g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1204MBL01

Quant Time: Dec 06 01:00:32 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 17 15:36:16 2021  
 Response via : Initial Calibration

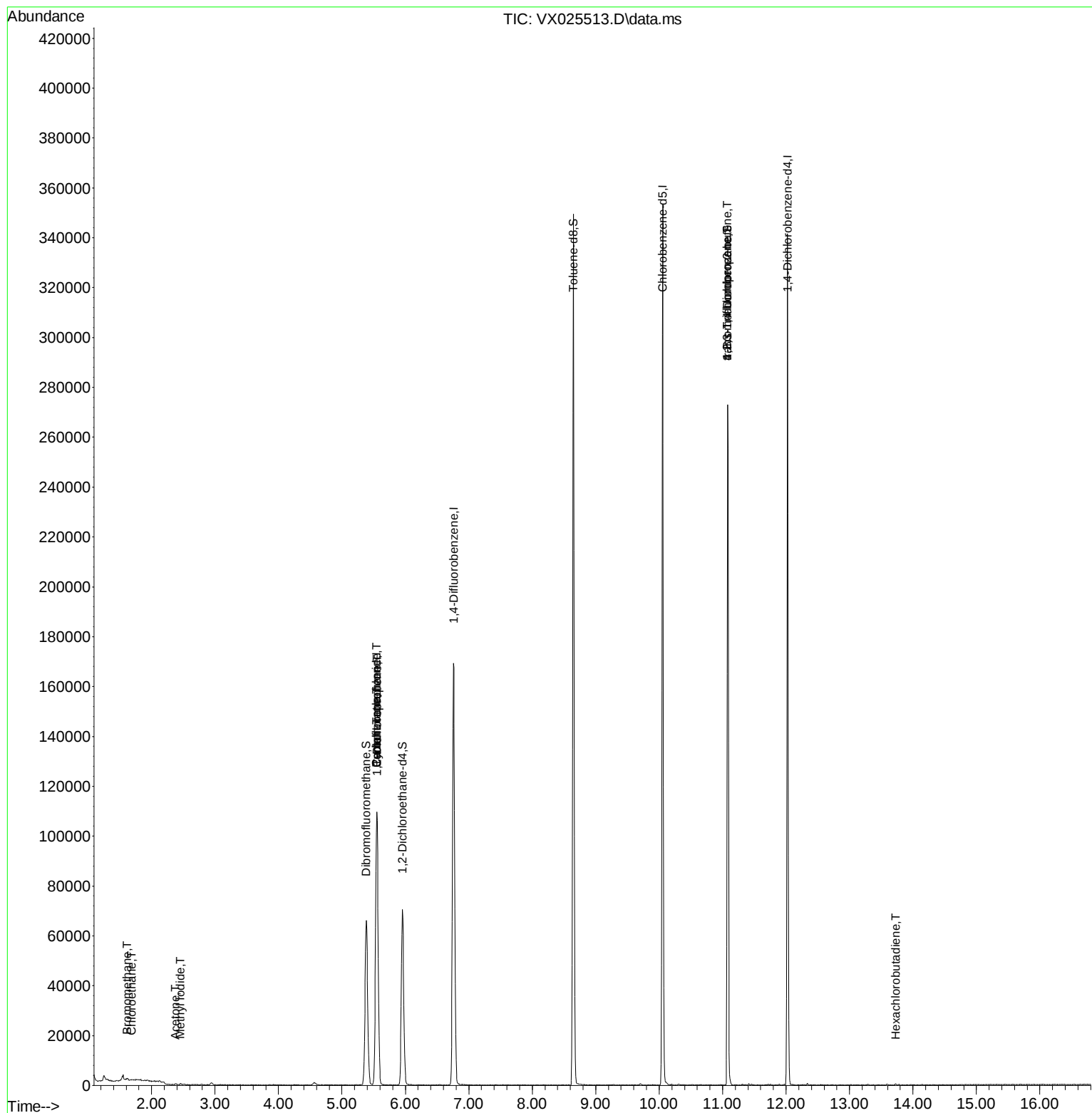
| Compound                      | R.T.           | QIon | Response           | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|-----------|--------|----------|
| -----                         |                |      |                    |           |        |          |
| Internal Standards            |                |      |                    |           |        |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 110924             | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 184622             | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 165087             | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 71700              | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |                    |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 64036              | 54.77     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 109.54% |           |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 56959              | 50.28     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 100.56% |           |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 210952             | 49.53     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 99.06%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 72908              | 45.25     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 90.50%  |           |        |          |
| Target Compounds              |                |      |                    |           |        |          |
|                               |                |      |                    |           | Qvalue |          |
| 5) Bromomethane               | 1.618          | 94   | 308                | 0.55      | ug/l   | 92       |
| 6) Chloroethane               | 1.685          | 64   | 189                | 0.21      | ug/l # | 43       |
| 10) Methyl Iodide             | 2.459          | 142  | 428                | 0.33      | ug/l # | 78       |
| 11) Tert butyl alcohol        | 2.947          | 59   | 552                | Below Cal | #      | 72       |
| 16) Acetone                   | 2.374          | 43   | 476                | 0.73      | ug/l   | 90       |
| 31) Cyclohexane               | 5.550          | 56   | 2053               | 1.14      | ug/l # | 13       |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 7739               | 4.80      | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 10412              | 5.87      | ug/l # | 17       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 35313              | 24.05     | ug/l # | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 35313              | 60.59     | ug/l # | 9        |
| 94) Hexachlorobutadiene       | 13.731         | 225  | 150                | 0.22      | ug/l   | 80       |
| 95) Naphthalene               | 13.780         | 128  | 277                | Below Cal | #      | 69       |
| -----                         |                |      |                    |           |        |          |

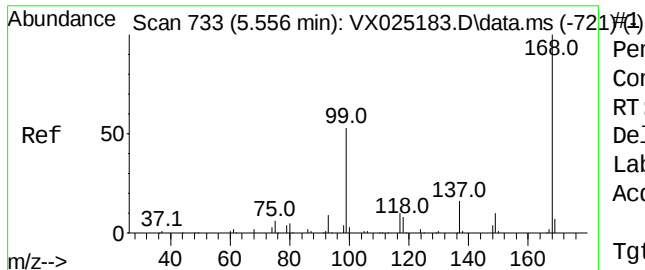
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120421\  
Data File : VX025513.D  
Acq On : 04 Dec 2021 11:41  
Operator : JC/MD  
Sample : VX1204MBL01  
Misc : 5.0g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1204MBL01

Quant Time: Dec 06 01:00:32 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 17 15:36:16 2021  
Response via : Initial Calibration





Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.550 min Scan#

Delta R.T. -0.006 min

Lab File: VX025513.D

Acq: 04 Dec 2021 11:41

Instrument :

MSVOA\_X

ClientSampleId :

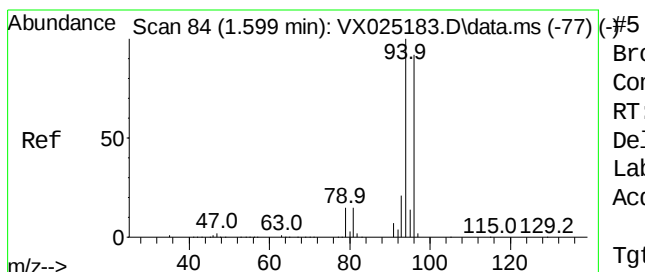
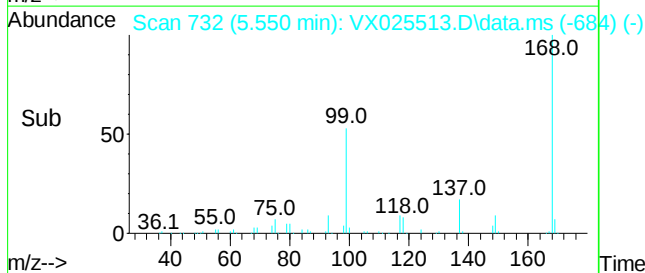
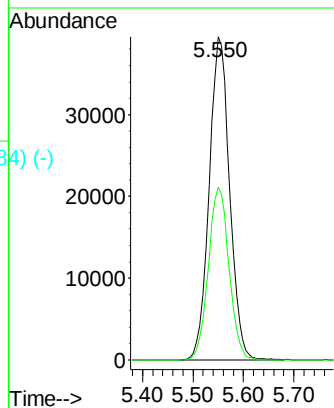
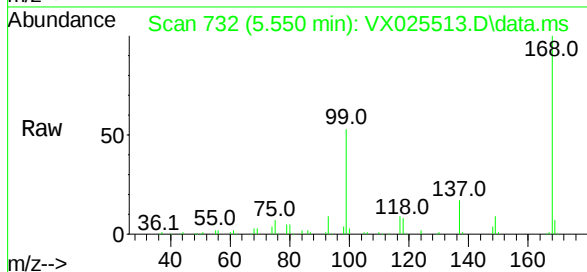
VX1204MBL01

Tgt Ion:168 Resp: 110924

Ion Ratio Lower Upper

168 100

99 53.4 46.4 69.6



Bromomethane

Concen: 0.55 ug/l

RT: 1.618 min Scan# 87

Delta R.T. 0.019 min

Lab File: VX025513.D

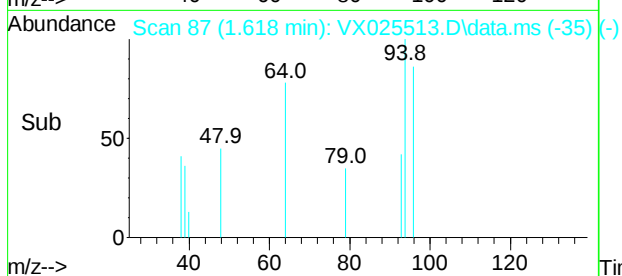
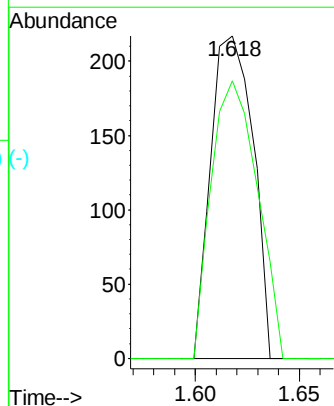
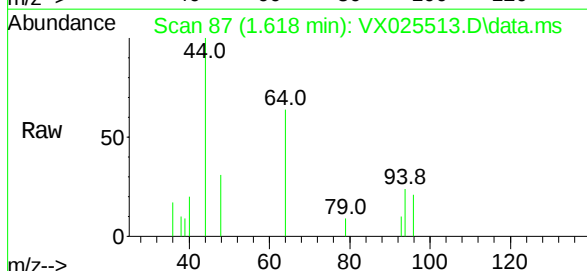
Acq: 04 Dec 2021 11:41

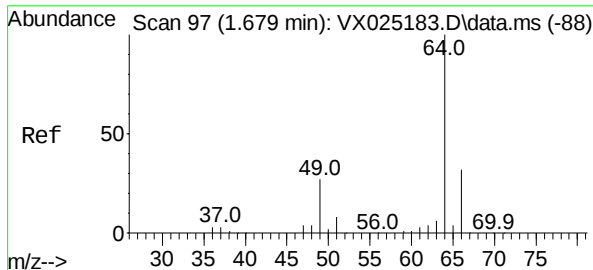
Tgt Ion: 94 Resp: 308

Ion Ratio Lower Upper

94 100

96 86.2 74.8 112.2





Chloroethane

Concen: 0.21 ug/l

RT: 1.685 min Scan#

Delta R.T. 0.006 min

Lab File: VX025513.D

Acq: 04 Dec 2021 11:41

Instrument :

MSVOA\_X

ClientSampleId :

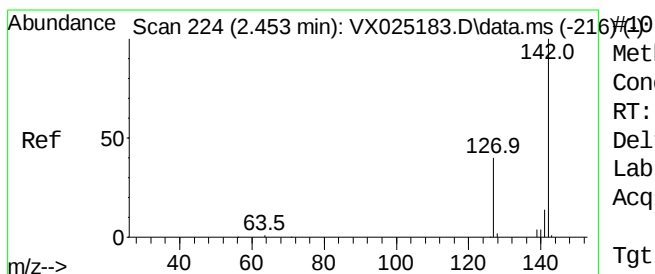
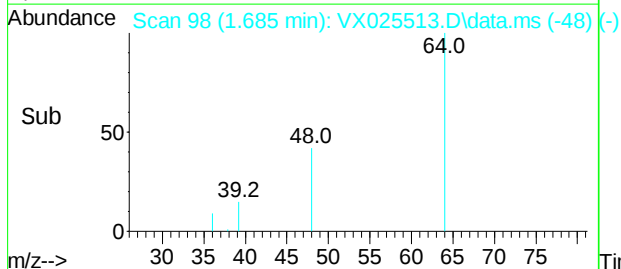
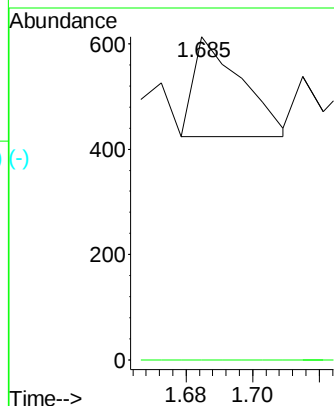
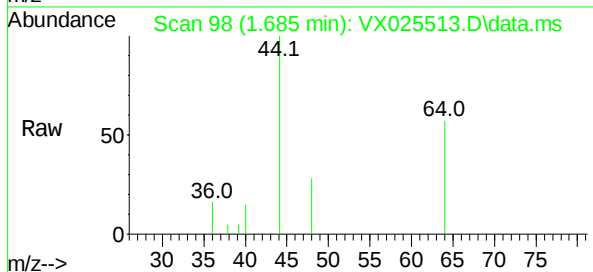
VX1204MBL01

Tgt Ion: 64 Resp: 189

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



Methyl Iodide

Concen: 0.33 ug/l

RT: 2.459 min Scan# 225

Delta R.T. 0.006 min

Lab File: VX025513.D

Acq: 04 Dec 2021 11:41

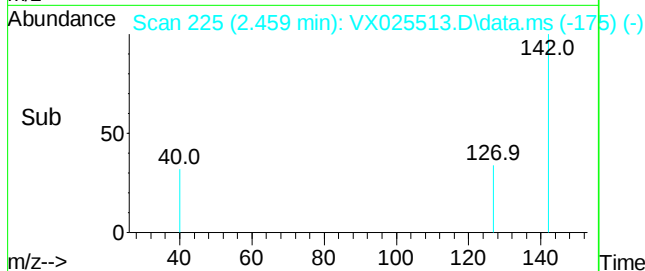
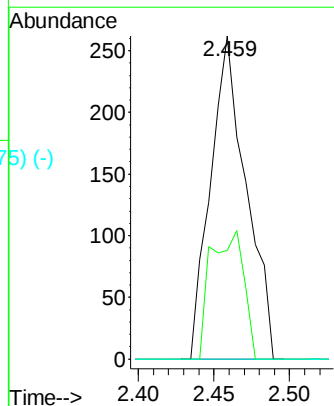
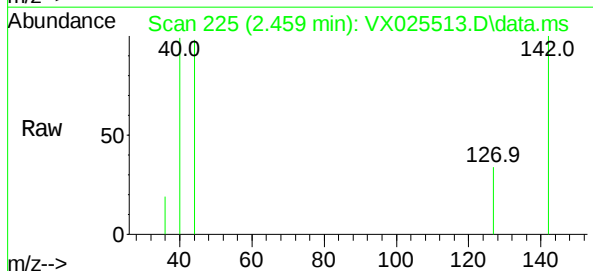
Tgt Ion:142 Resp: 428

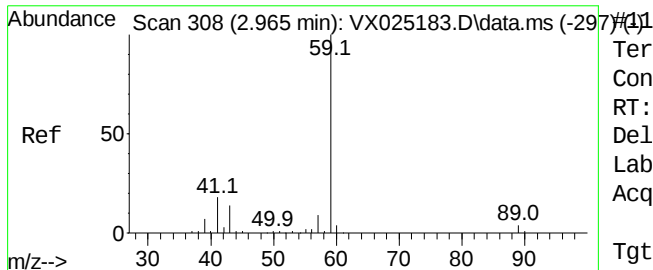
Ion Ratio Lower Upper

142 100

127 36.4 38.9 58.3#

141 0.0 11.7 17.5#

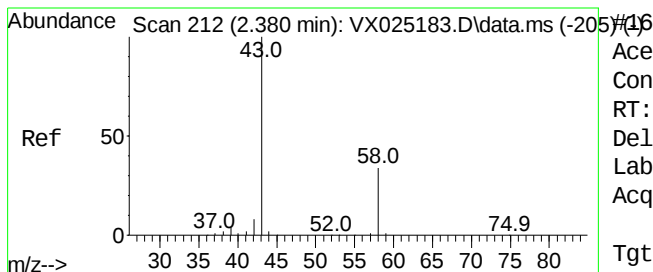
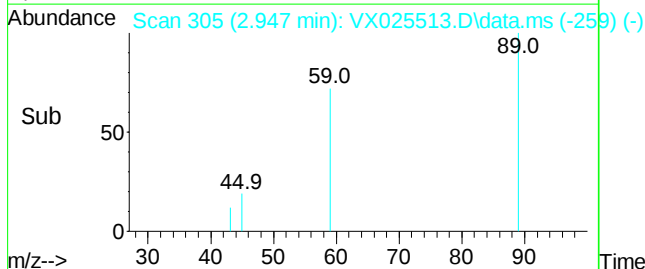
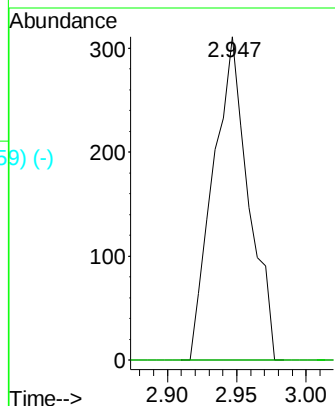
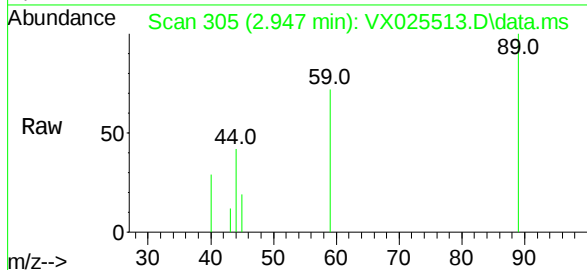




Tert butyl alcohol  
 Concen: Below Cal  
 RT: 2.947 min Scan# 41  
 Delta R.T. -0.018 min  
 Lab File: VX025513.D  
 Acq: 04 Dec 2021 11:41

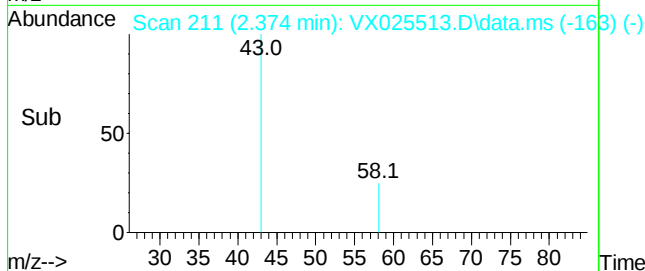
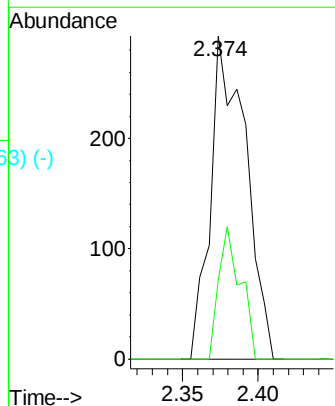
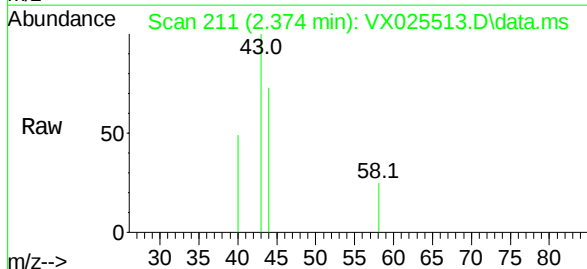
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1204MBL01

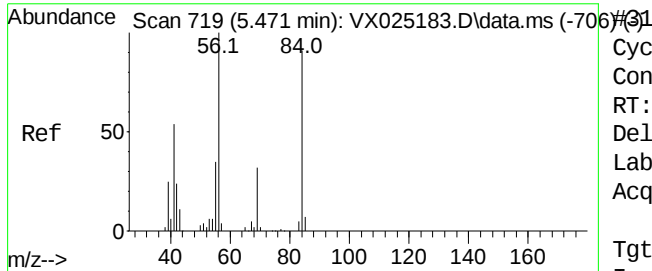
Tgt Ion: 59 Resp: 552  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.5 12.7#



Acetone  
 Concen: 0.73 ug/l  
 RT: 2.374 min Scan# 211  
 Delta R.T. -0.006 min  
 Lab File: VX025513.D  
 Acq: 04 Dec 2021 11:41

Tgt Ion: 43 Resp: 476  
 Ion Ratio Lower Upper  
 43 100  
 58 24.6 24.0 36.0





Cyclohexane

Concen: 1.14 ug/l

RT: 5.550 min Scan#

Delta R.T. 0.079 min

Lab File: VX025513.D

Acq: 04 Dec 2021 11:41

Instrument :

MSVOA\_X

ClientSampleId :

VX1204MBL01

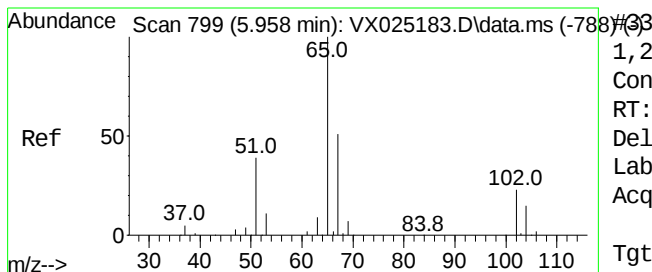
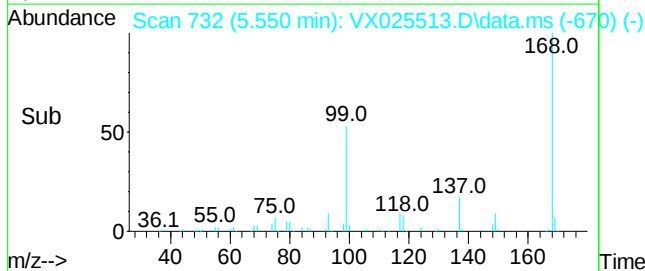
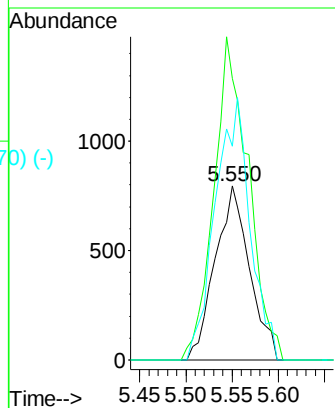
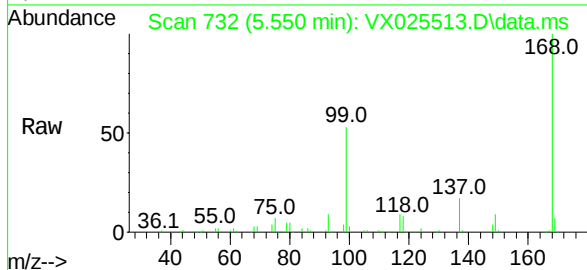
Tgt Ion: 56 Resp: 2053

Ion Ratio Lower Upper

56 100

69 161.6 24.2 36.2#

84 122.5 71.5 107.3#



1,2-Dichloroethane-d4

Concen: 54.77 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX025513.D

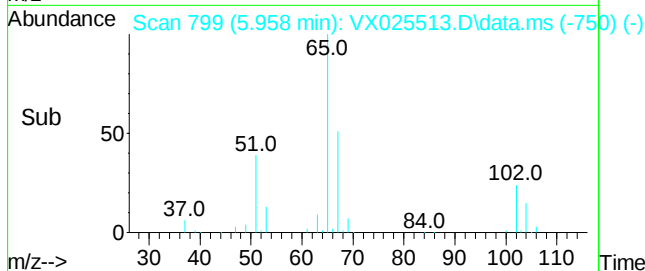
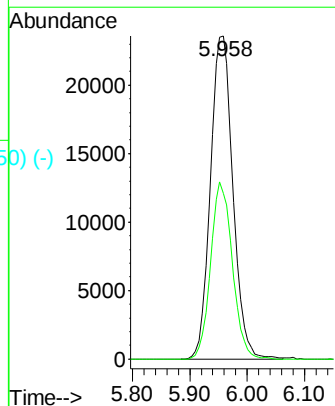
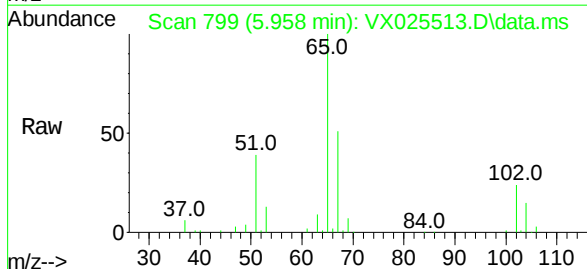
Acq: 04 Dec 2021 11:41

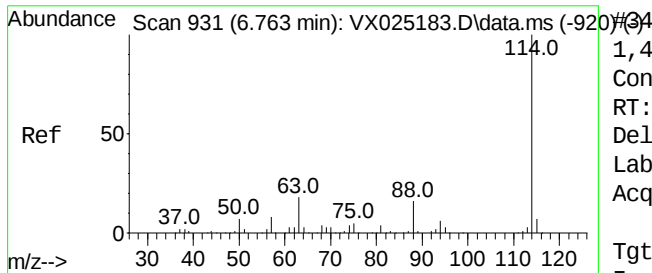
Tgt Ion: 65 Resp: 64036

Ion Ratio Lower Upper

65 100

67 53.0 0.0 101.0





1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX025513.D

Acq: 04 Dec 2021 11:41

Instrument :

MSVOA\_X

ClientSampleId :

VX1204MBL01

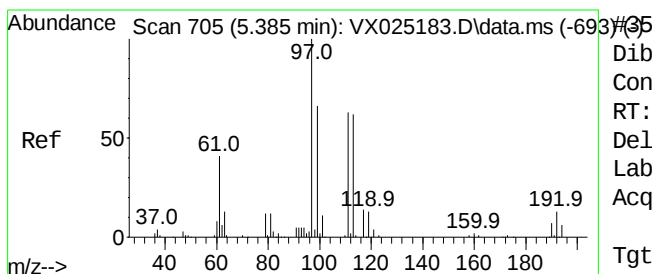
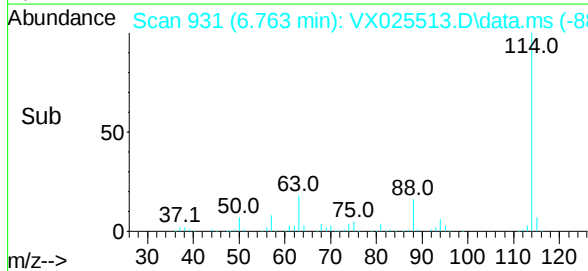
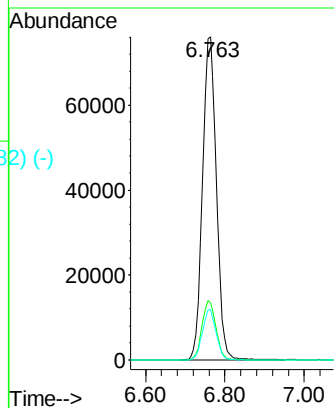
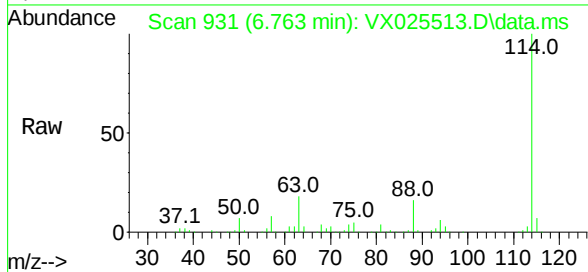
Tgt Ion:114 Resp: 184622

Ion Ratio Lower Upper

114 100

63 17.5 0.0 41.0

88 15.6 0.0 34.8



Dibromofluoromethane

Concen: 50.28 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX025513.D

Acq: 04 Dec 2021 11:41

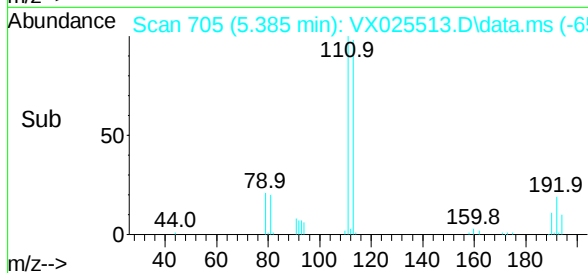
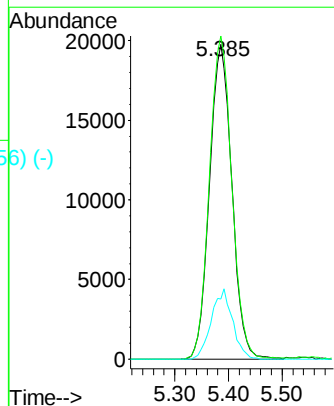
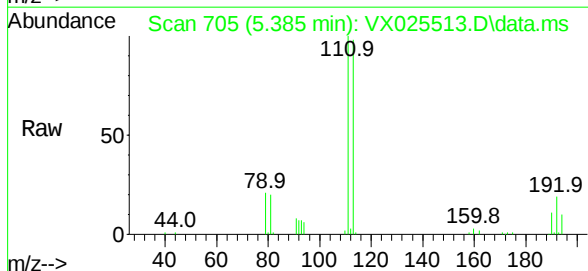
Tgt Ion:113 Resp: 56959

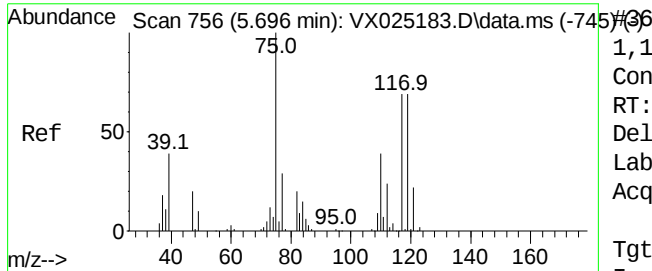
Ion Ratio Lower Upper

113 100

111 103.1 82.1 123.1

192 21.1 15.6 23.4

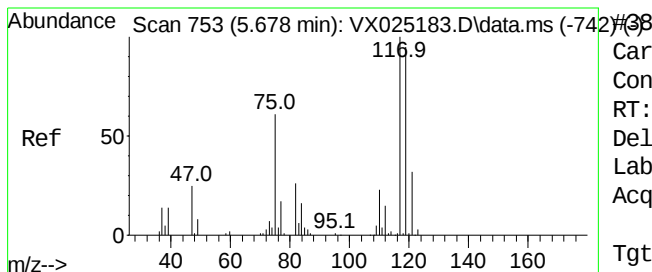
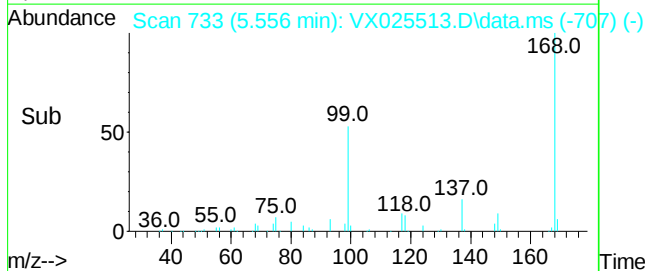
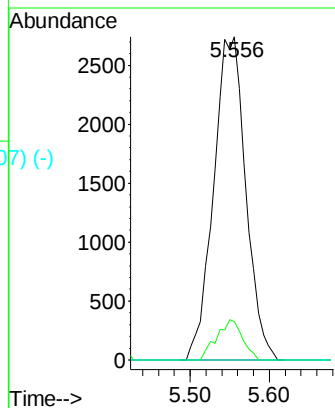
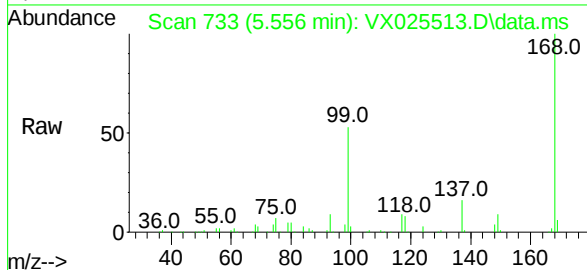




1,1-Dichloropropene  
 Concen: 4.80 ug/l  
 RT: 5.556 min Scan#  
 Delta R.T. -0.140 min  
 Lab File: VX025513.D  
 Acq: 04 Dec 2021 11:41

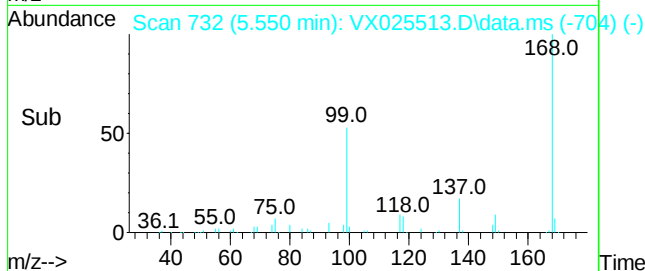
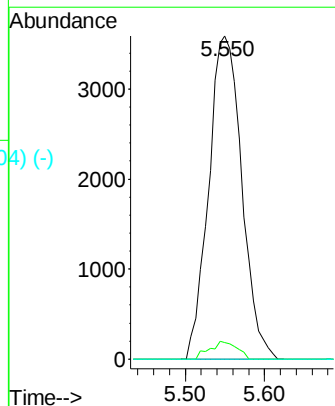
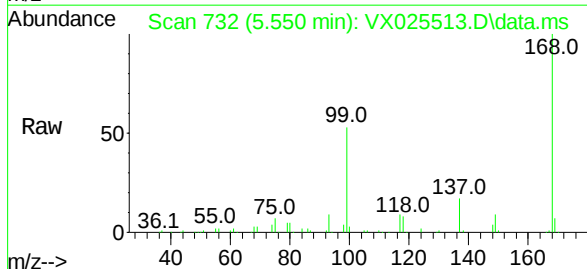
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1204MBL01

Tgt Ion: 75 Resp: 7739  
 Ion Ratio Lower Upper  
 75 100  
 110 10.0 18.1 54.3#  
 77 0.0 24.4 36.6#

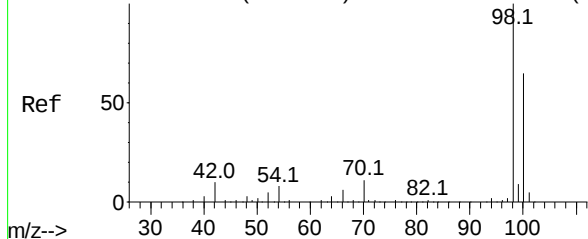


Carbon Tetrachloride  
 Concen: 5.87 ug/l  
 RT: 5.550 min Scan# 732  
 Delta R.T. -0.128 min  
 Lab File: VX025513.D  
 Acq: 04 Dec 2021 11:41

Tgt Ion: 117 Resp: 10412  
 Ion Ratio Lower Upper  
 117 100  
 119 5.2 75.6 113.4#  
 121 0.0 23.7 35.5#



Abundance Scan 1241 (8.653 min): VX025183.D\data.ms (-12350)



Toluene-d8

Concen: 49.53 ug/l

RT: 8.647 min Scan#

Delta R.T. -0.006 min

Lab File: VX025513.D

Acq: 04 Dec 2021 11:41

Instrument :

MSVOA\_X

ClientSampleId :

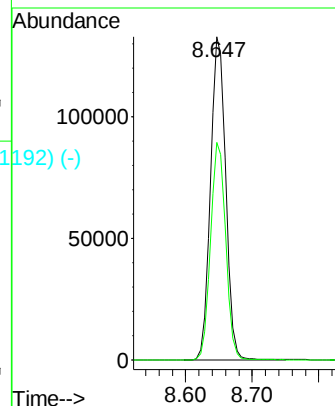
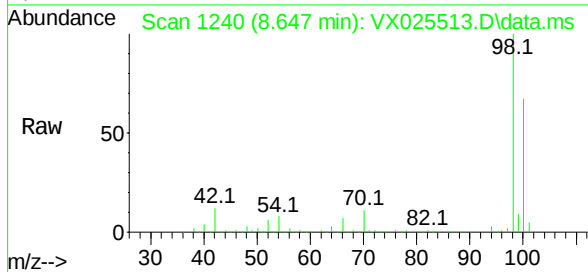
VX1204MBL01

Tgt Ion: 98 Resp: 210952

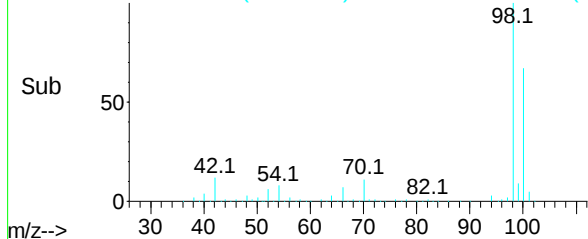
Ion Ratio Lower Upper

98 100

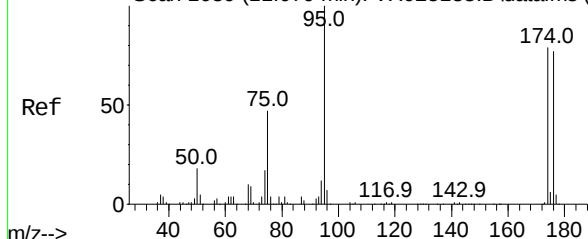
100 66.7 51.4 77.0



Abundance Scan 1240 (8.647 min): VX025513.D\data.ms (-1192) (-)



Abundance Scan 1639 (11.079 min): VX025183.D\data.ms (-1639) (-)



4-Bromofluorobenzene

Concen: 45.25 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX025513.D

Acq: 04 Dec 2021 11:41

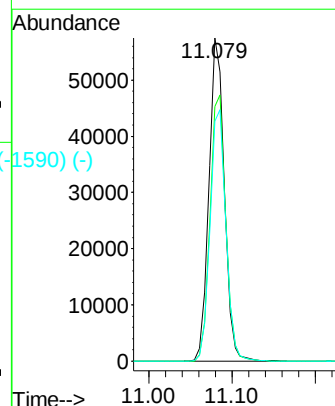
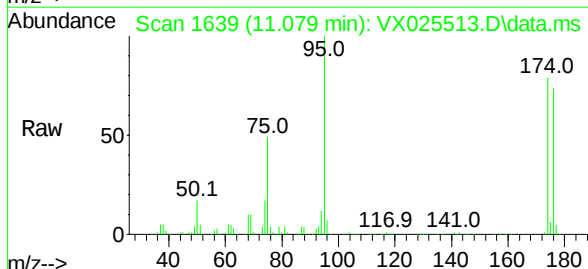
Tgt Ion: 95 Resp: 72908

Ion Ratio Lower Upper

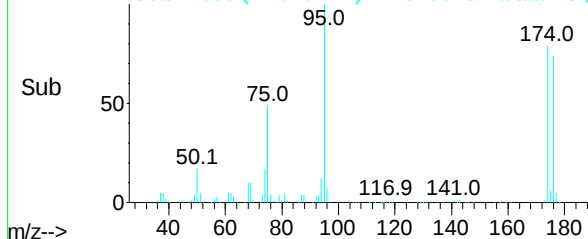
95 100

174 84.3 0.0 158.0

176 80.3 0.0 153.6



Abundance Scan 1639 (11.079 min): VX025513.D\data.ms (-1590) (-)



Abundance Scan 1471 (10.055 min): VX025183.D\data.ms (-1468) (-)

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.055 min Scan# 1468

Delta R.T. 0.000 min

Lab File: VX025513.D

Acq: 04 Dec 2021 11:41

Instrument :

MSVOA\_X

ClientSampleId :

VX1204MBL01

Tgt Ion:117 Resp: 165087

Ion Ratio Lower Upper

117 100

82 51.9 44.6 67.0

119 31.6 24.8 37.2

Abundance Scan 1471 (10.055 min): VX025513.D\data.ms

Ref

50

40.0 54.1 67.2 82.1 99.0 117.0

m/z-->

30 40 50 60 70 80 90 100 110 120

Abundance Scan 1471 (10.055 min): VX025513.D\data.ms

Raw

50

40.1 54.1 67.0 82.1 99.0 117.0

m/z-->

30 40 50 60 70 80 90 100 110 120

Abundance Scan 1471 (10.055 min): VX025513.D\data.ms (-1422) (-)

Sub

50

40.0 54.1 67.0 82.1 99.0 117.0

m/z-->

30 40 50 60 70 80 90 100 110 120

Abundance

100000

50000

0

10.00 10.10

Time-->

Abundance Scan 1794 (12.024 min): VX025183.D\data.ms (-1783) (-)

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX025513.D

Acq: 04 Dec 2021 11:41

Tgt Ion:152 Resp: 71700

Ion Ratio Lower Upper

152 100

115 58.2 43.3 129.8

150 158.9 0.0 351.2

Abundance Scan 1794 (12.024 min): VX025513.D\data.ms

Ref

50

52.0 78.0 98.9 119.1 150.0

m/z-->

40 60 80 100 120 140 160

Abundance Scan 1794 (12.024 min): VX025513.D\data.ms

Raw

50

52.1 78.1 96.9 115.0 131.9 150.0

m/z-->

40 60 80 100 120 140 160

Abundance Scan 1794 (12.024 min): VX025513.D\data.ms (-1745) (-)

Sub

50

52.1 78.1 96.9 115.0 131.9 150.0

m/z-->

40 60 80 100 120 140 160

Abundance

80000

60000

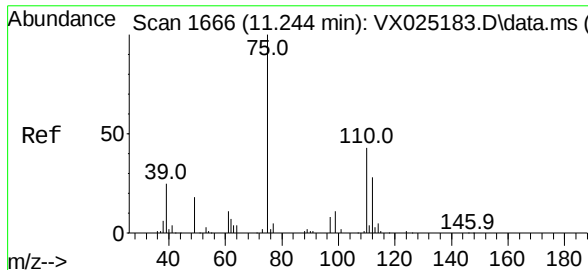
40000

20000

0

12.00 12.10

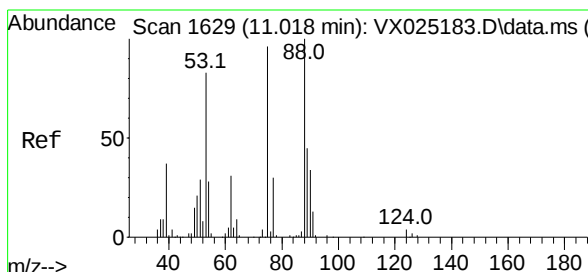
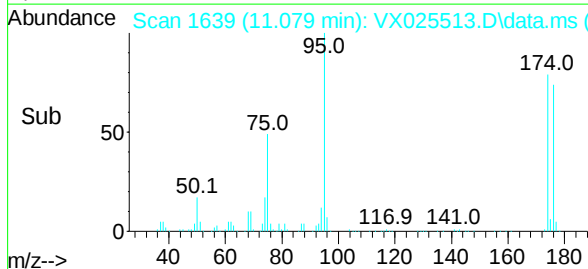
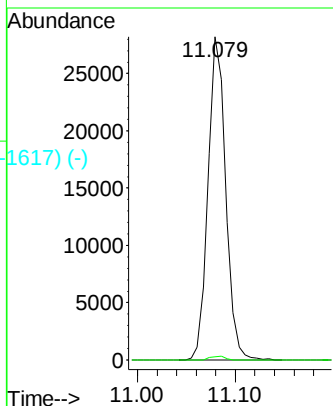
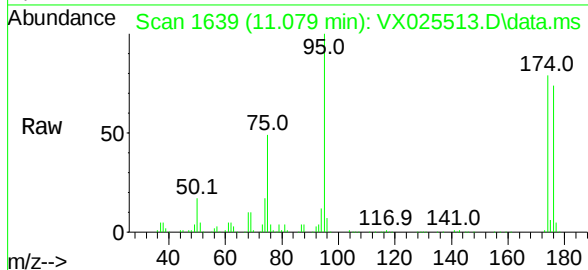
Time-->



1,2,3-Trichloropropane  
 Concen: 24.05 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.165 min  
 Lab File: VX025513.D  
 Acq: 04 Dec 2021 11:41

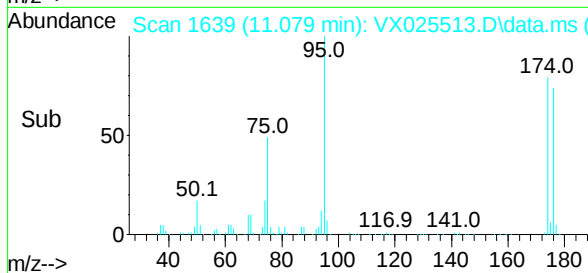
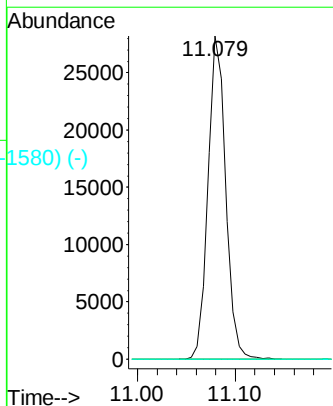
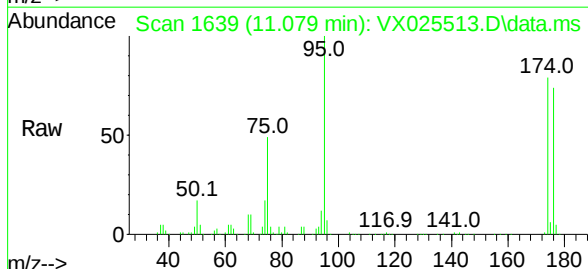
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1204MBL01

Tgt Ion: 75 Resp: 35313  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 20.0 59.9#



trans-1,4-Dichloro-2-butene  
 Concen: 60.59 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. 0.061 min  
 Lab File: VX025513.D  
 Acq: 04 Dec 2021 11:41

Tgt Ion: 75 Resp: 35313  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 81.9 122.9#  
 89 0.0 38.2 57.2#



Abundance Scan 2073 (13.725 min): VX025183.D\data.ms (-2073) (-)

Hexachlorobutadiene

Concen: 0.22 ug/l

RT: 13.731 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX025513.D

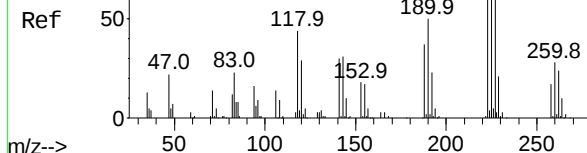
Acq: 04 Dec 2021 11:41

Instrument :

MSVOA\_X

ClientSampleId :

VX1204MBL01



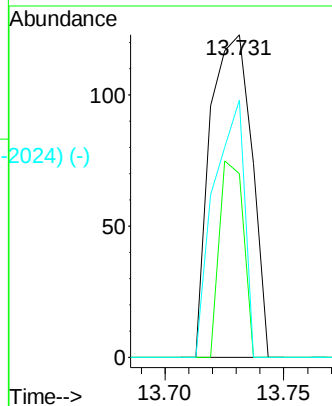
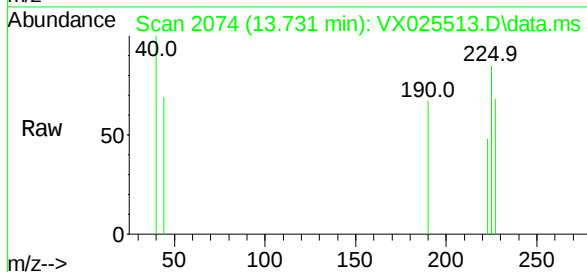
Tgt Ion:225 Resp: 150

Ion Ratio Lower Upper

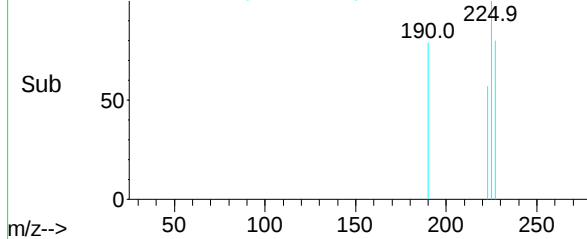
225 100

223 35.3 30.9 92.7

227 58.7 31.1 93.5



Abundance Scan 2074 (13.731 min): VX025513.D\data.ms (-2074) (-)



Abundance Scan 2082 (13.780 min): VX025183.D\data.ms (-2082) (-)

Naphthalene

Concen: Below Cal

RT: 13.780 min Scan# 2082

Delta R.T. 0.000 min

Lab File: VX025513.D

Acq: 04 Dec 2021 11:41

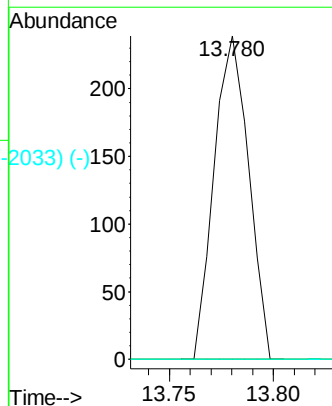
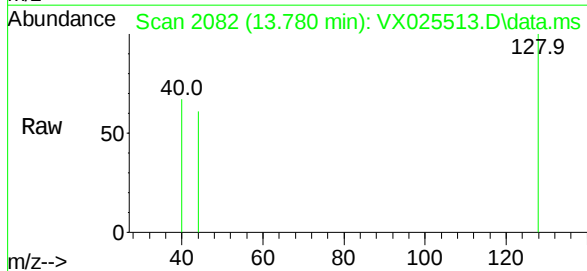
Tgt Ion:128 Resp: 277

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.8 13.2#



Abundance Scan 2082 (13.780 min): VX025513.D\data.ms (-2082) (-)

