

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040819\  
 Data File : VX008737.D  
 Acq On : 08 Apr 2019 11:56  
 Operator : JC/SP  
 Sample : VX0408MBL01  
 Misc : 5.00µL/100µL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0408MBL01

Quant Time: Apr 09 06:42:40 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X040319W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 04 04:47:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 204341   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 341431   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 290624   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 118651   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 140598   | 47.17  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 94.34% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 103855   | 47.57  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 95.14% |          |
| 50) Toluene-d8              | 8.71  | 98   | 422691   | 48.63  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 97.26% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 137167   | 44.50  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 89.00% |          |

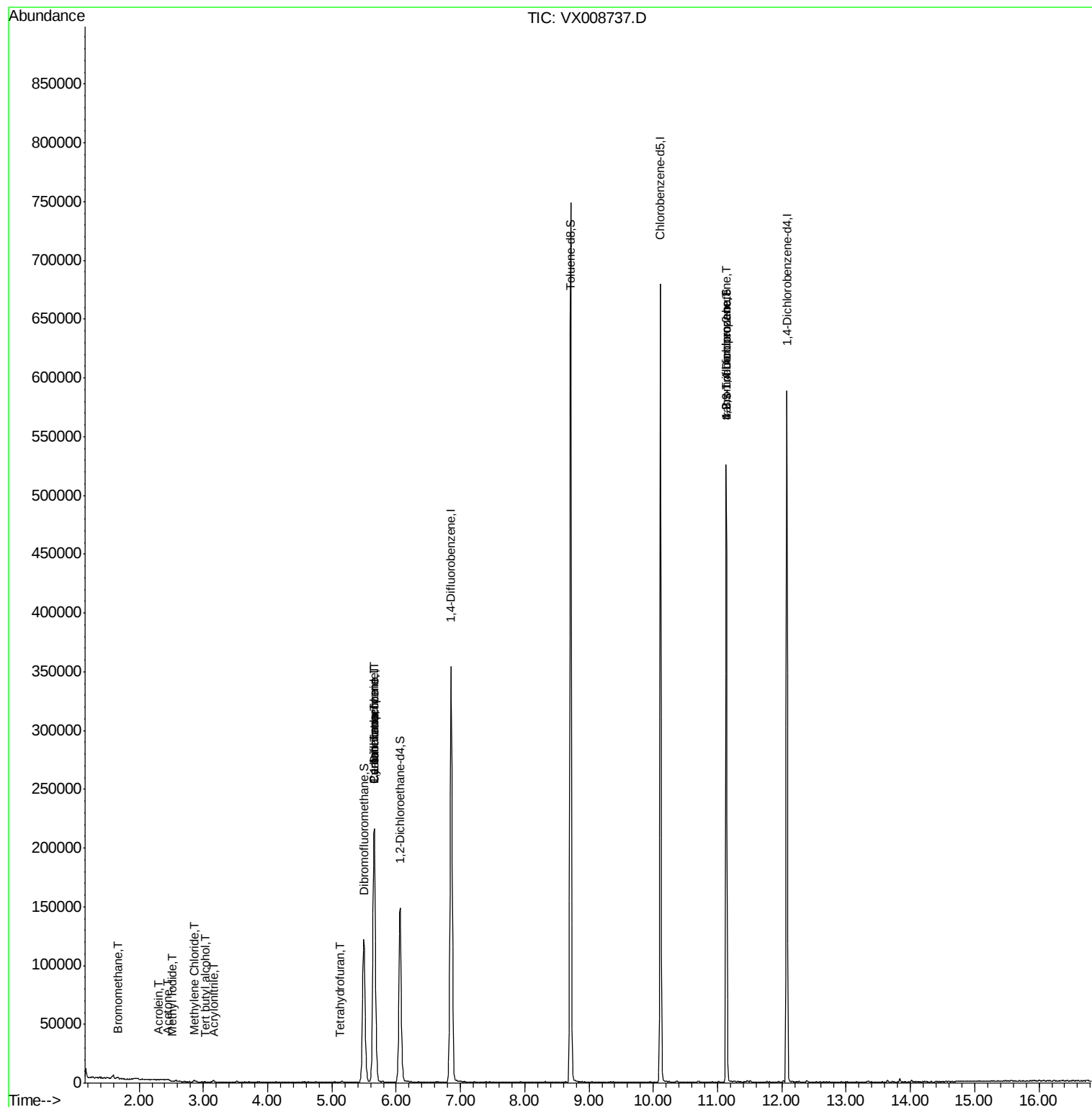
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 459      | Below Cal | #      | 73     |
| 5) Bromomethane                | 1.67  | 94   | 550      | 2.223     | ug/l   | 89     |
| 6) Chloroethane                | 1.75  | 64   | 85       | Below Cal | #      | 43     |
| 10) Methyl Iodide              | 2.52  | 142  | 416      | 4.189     | ug/l # | 79     |
| 11) Tert butyl alcohol         | 3.04  | 59   | 188      | 0.269     | ug/l # | 72     |
| 13) Acrolein                   | 2.29  | 56   | 317      | 0.916     | ug/l # | 50     |
| 15) Acrylonitrile              | 3.15  | 53   | 697      | 0.377     | ug/l # | 90     |
| 16) Acetone                    | 2.45  | 43   | 430      | 0.250     | ug/l # | 69     |
| 17) Carbon Disulfide           | 2.57  | 76   | 1603     | Below Cal | #      | 72     |
| 20) Methylene Chloride         | 2.85  | 84   | 682      | 0.237     | ug/l   | 93     |
| 28) Bromochloromethane         | 5.01  | 49   | 71       | Below Cal | #      | 22     |
| 29) Tetrahydrofuran            | 5.12  | 42   | 775      | 0.430     | ug/l # | 48     |
| 31) Cyclohexane                | 5.65  | 56   | 4753     | 0.923     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 16787    | 4.498     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 19650    | 6.361     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 70399    | 21.598    | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 70399    | 59.537    | ug/l # | 9      |

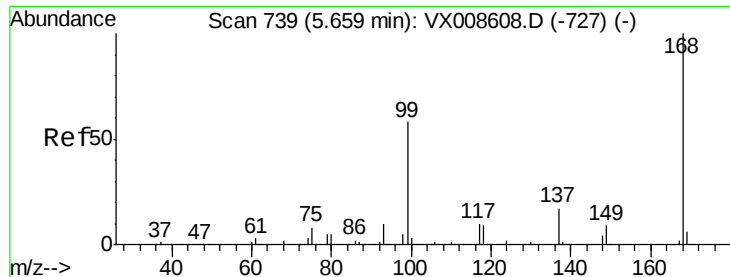
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX040819\  
Data File : VX008737.D  
Acq On : 08 Apr 2019 11:56  
Operator : JC/SP  
Sample : VX0408MBL01  
Misc : 5.0µ/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0408MBL01

Quant Time: Apr 09 06:42:40 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X040319W.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 04 04:47:41 2019  
Response via : Initial Calibration

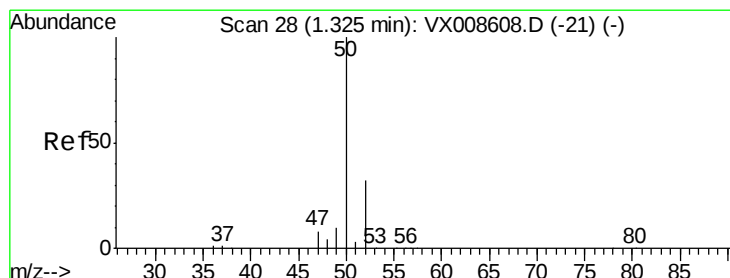
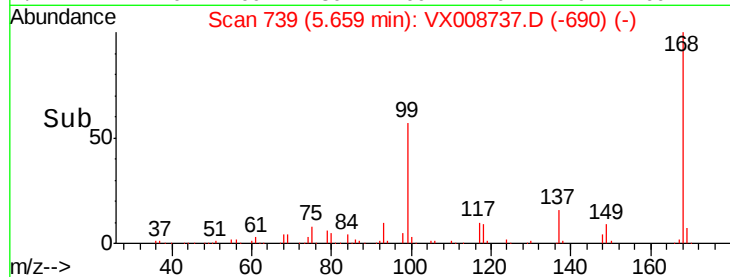
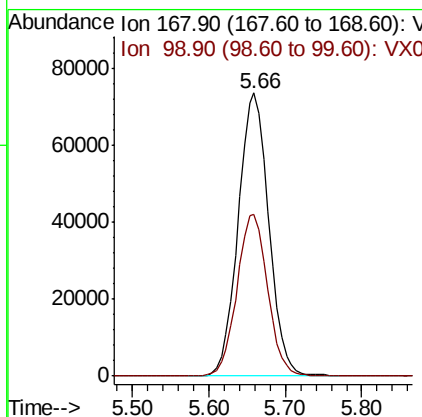
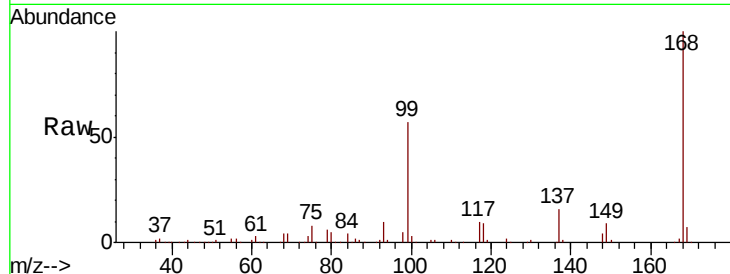




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. -0.00 min  
Lab File: VX008737.D  
Acq: 08 Apr 2019 11:56

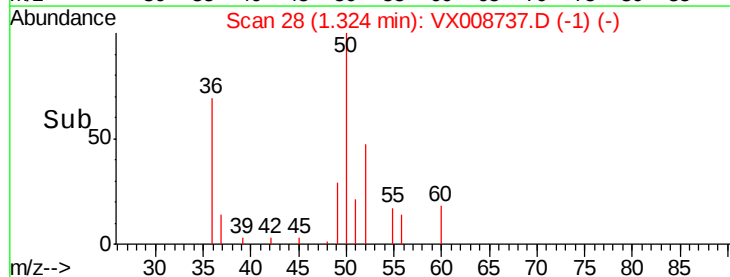
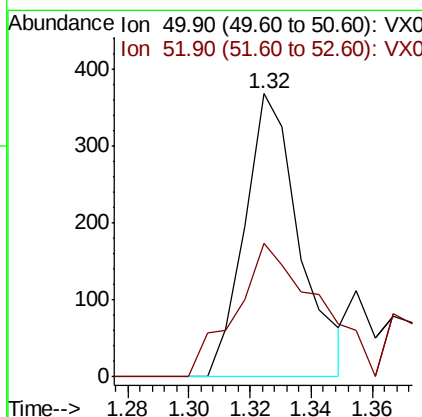
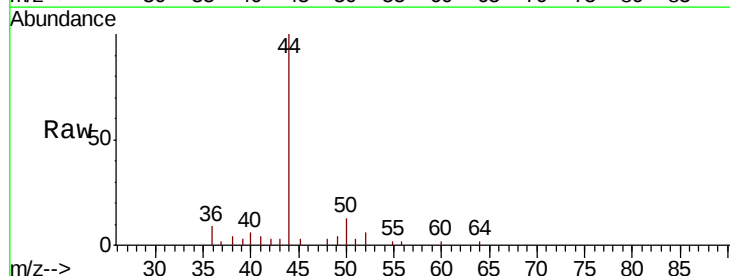
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0408MBL01

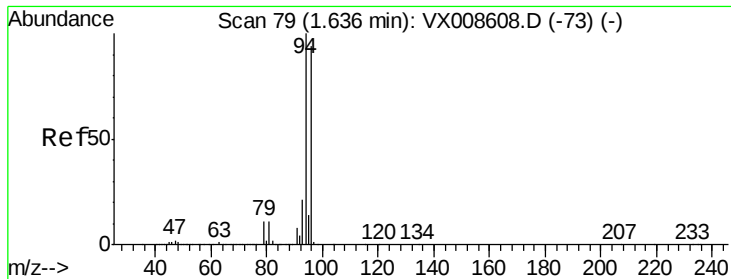
Tot Ion:168 Resp: 204341  
Ion Ratio Lower Upper  
168 100  
99 57.3 46.7 70.1



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.32 min Scan# 28  
Delta R.T. 0.00 min  
Lab File: VX008737.D  
Acq: 08 Apr 2019 11:56

Tgt Ion: 50 Resp: 459  
Ion Ratio Lower Upper  
50 100  
52 47.3 25.8 38.8#





#5

Bromomethane

Concen: 2.223 ug/l

RT: 1.67 min Scan# 84

Delta R.T. 0.03 min

Lab File: VX008737.D

Acq: 08 Apr 2019 11:56

Instrument :

MSVOA\_X

ClientSampleId :

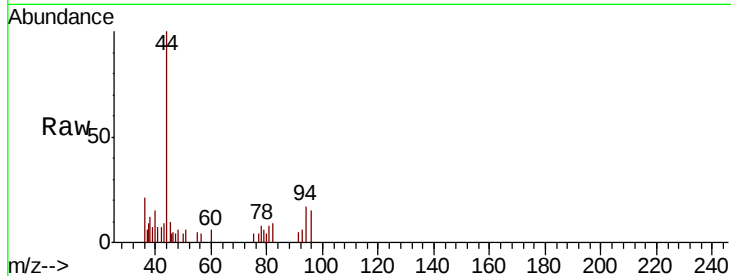
VX0408MBL01

Tot Ion: 94 Resp: 550

Ion Ratio Lower Upper

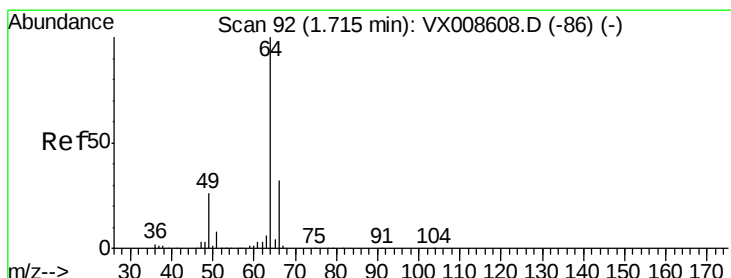
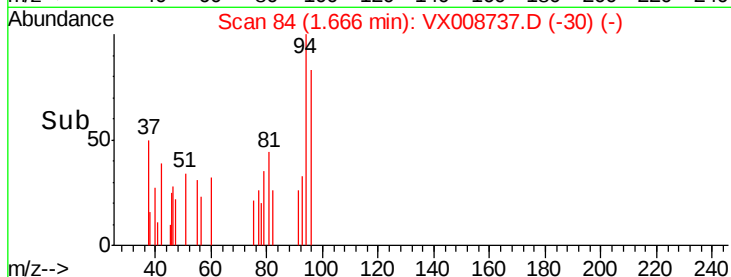
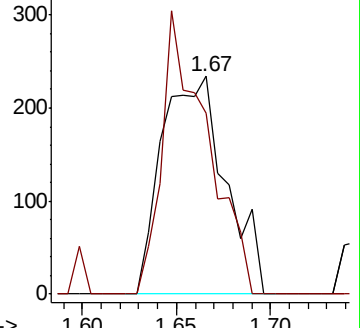
94 100

96 83.3 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 98

Delta R.T. 0.04 min

Lab File: VX008737.D

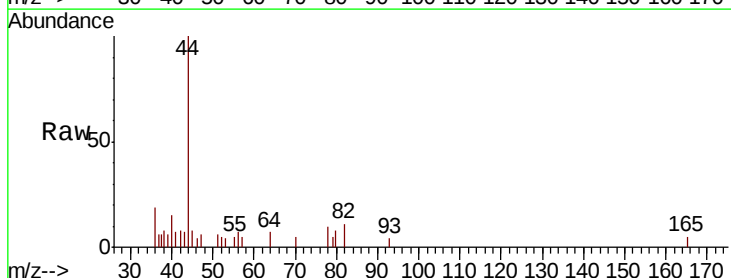
Acq: 08 Apr 2019 11:56

Tgt Ion: 64 Resp: 85

Ion Ratio Lower Upper

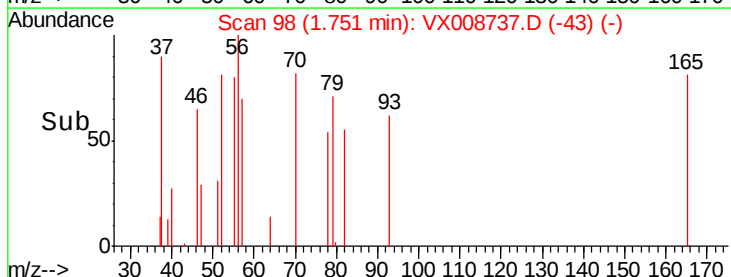
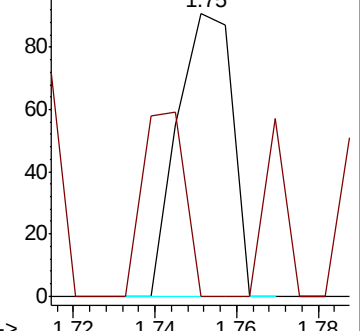
64 100

66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

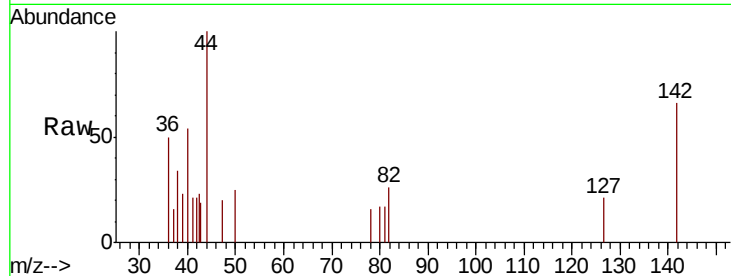




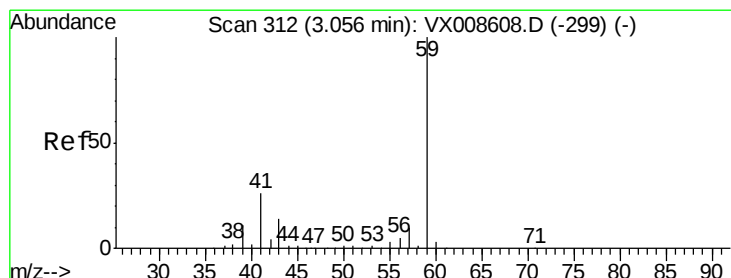
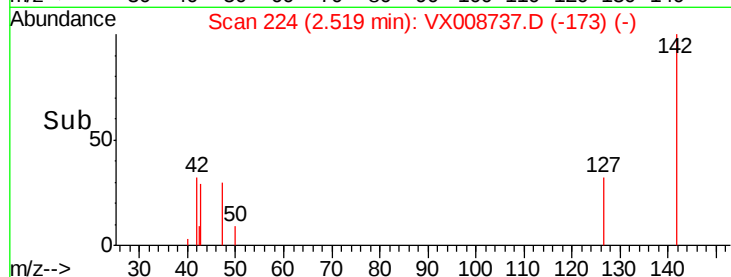
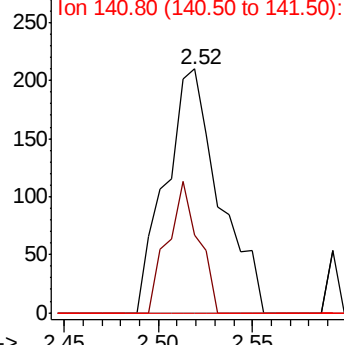
#10  
Methvl Iodide  
Concen: 4.189 ug/l  
RT: 2.52 min Scan# 224  
Delta R.T. 0.01 min  
Lab File: VX008737.D  
Acq: 08 Apr 2019 11:56

Instrument :  
MSVOA\_X  
ClientSampled :  
VX0408MBL01

Tot Ion:142 Resp: 416  
Ion Ratio Lower Upper  
142 100  
127 31.0 33.0 49.6#  
141 0.0 11.4 17.2#

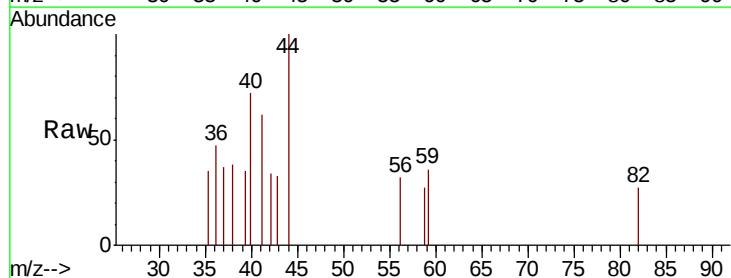


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

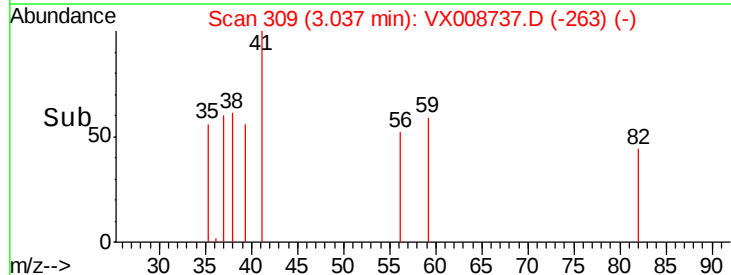
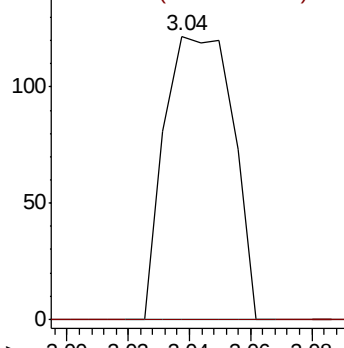


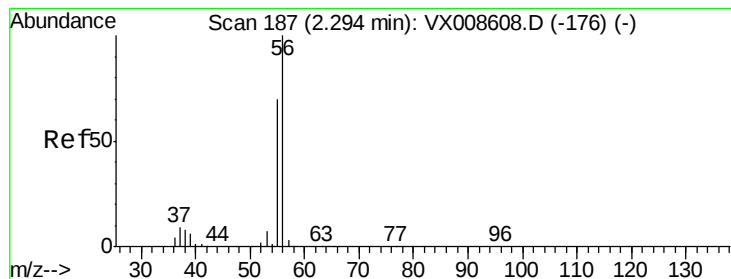
#11  
Tert butyl alcohol  
Concen: 0.269 ug/l  
RT: 3.04 min Scan# 309  
Delta R.T. -0.02 min  
Lab File: VX008737.D  
Acq: 08 Apr 2019 11:56

Tgt Ion: 59 Resp: 188  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0  
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.916 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX008737.D

Acq: 08 Apr 2019 11:56

Instrument :

MSVOA\_X

ClientSampleId :

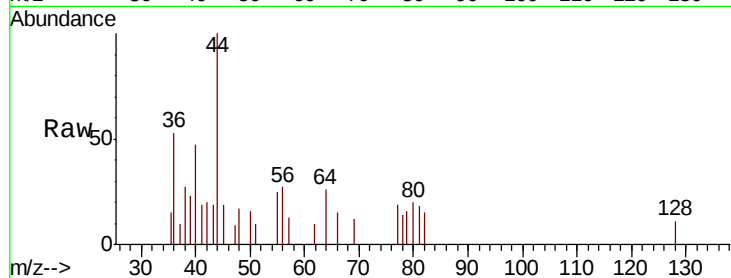
VX0408MBL01

Tot Ion: 56 Resp: 317

Ion Ratio Lower Upper

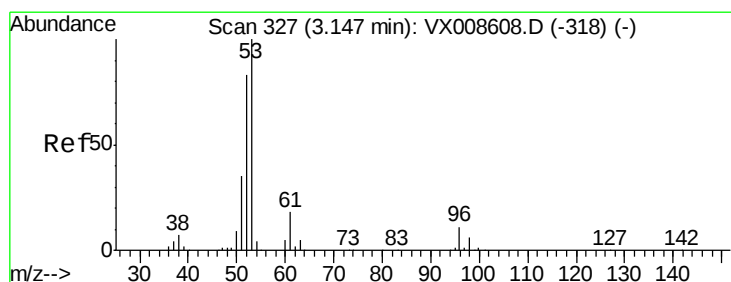
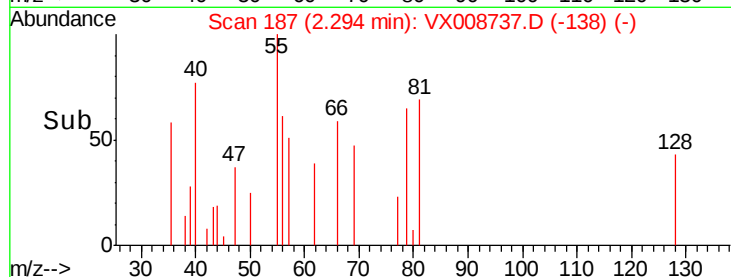
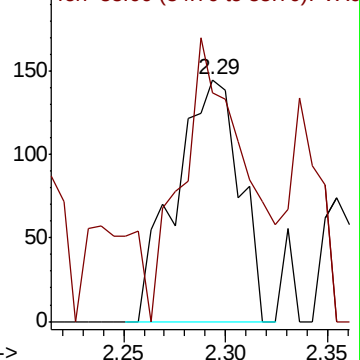
56 100

55 114.5 58.0 87.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.377 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX008737.D

Acq: 08 Apr 2019 11:56

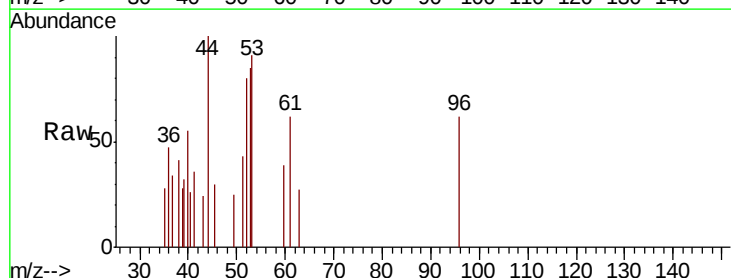
Tgt Ion: 53 Resp: 697

Ion Ratio Lower Upper

53 100

52 79.8 66.5 99.7

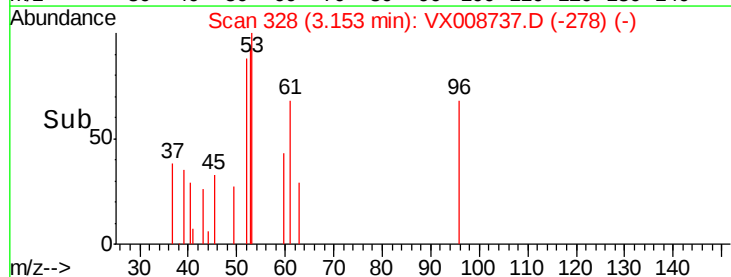
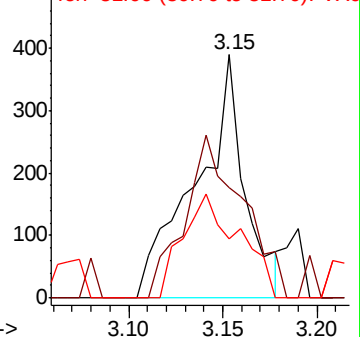
51 49.2 28.6 42.8#

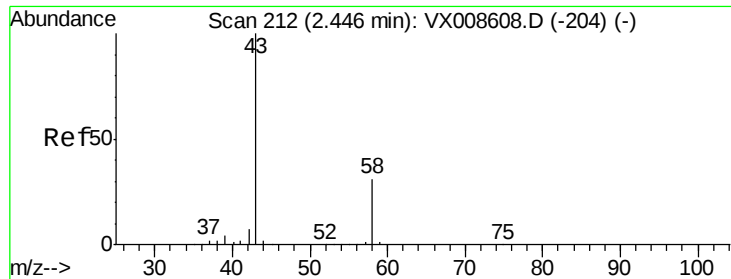


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 0.250 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008737.D

Acq: 08 Apr 2019 11:56

Instrument :

MSVOA\_X

ClientSampled :

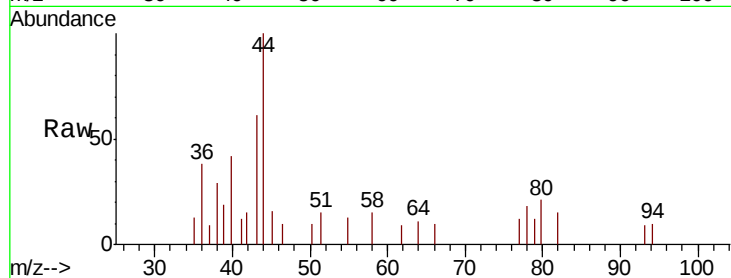
VX0408MBL01

Tot Ion: 43 Resp: 430

Ion Ratio Lower Upper

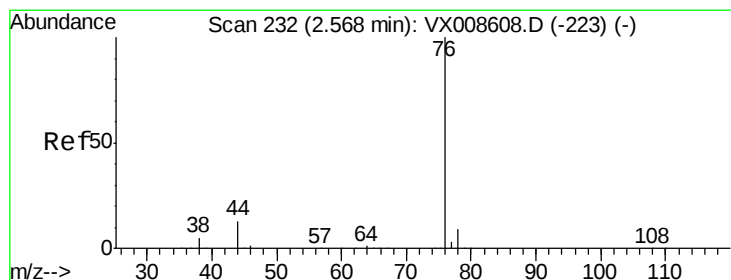
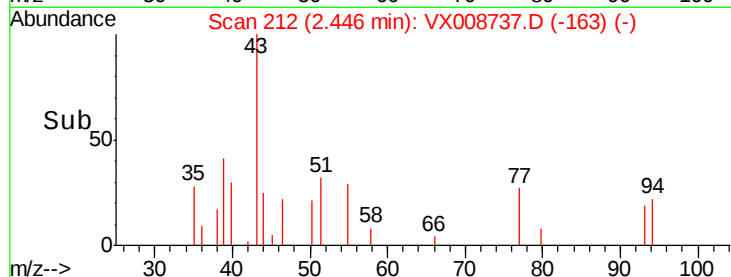
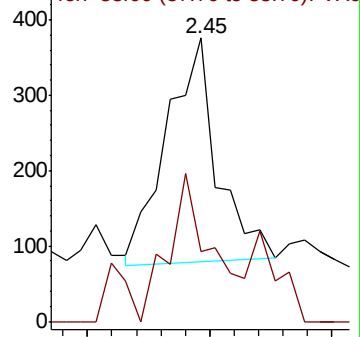
43 100

58 13.7 24.8 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008737.D

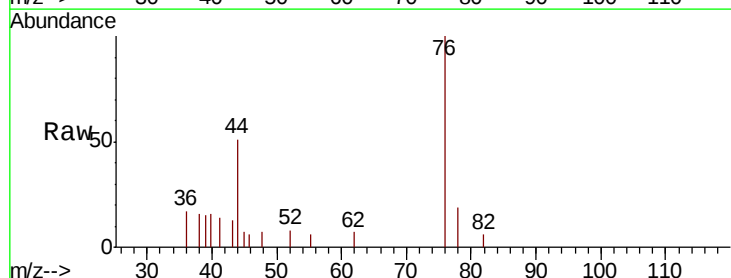
Acq: 08 Apr 2019 11:56

Tgt Ion: 76 Resp: 1603

Ion Ratio Lower Upper

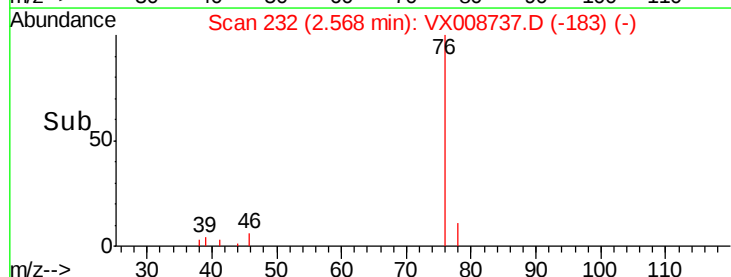
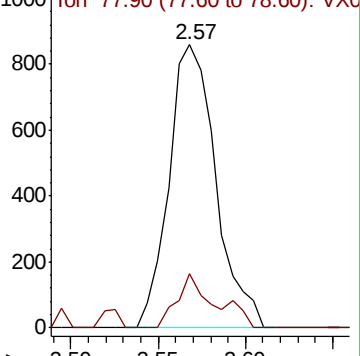
76 100

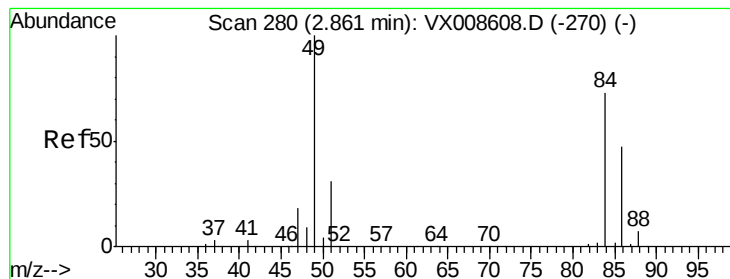
78 19.1 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#20

Methylene Chloride

Concen: 0.237 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX008737.D

Acq: 08 Apr 2019 11:56

Instrument :

MSVOA\_X

ClientSampled :

VX0408MBL01

Tot Ion: 84 Resp: 682

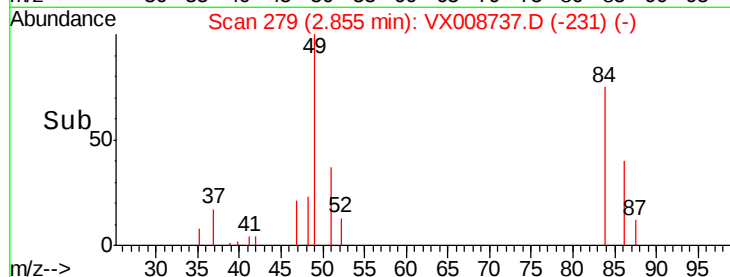
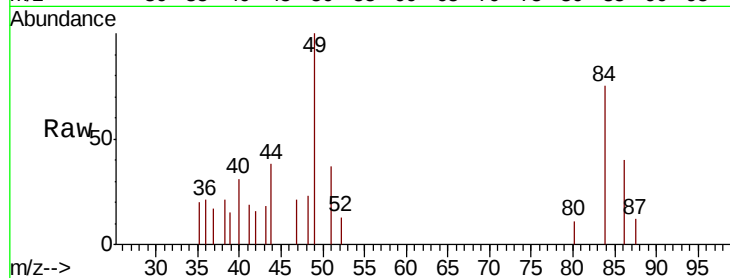
Ion Ratio Lower Upper

84 100

49 134.0 109.7 164.5

51 49.6 33.6 50.4

86 52.9 51.4 77.2

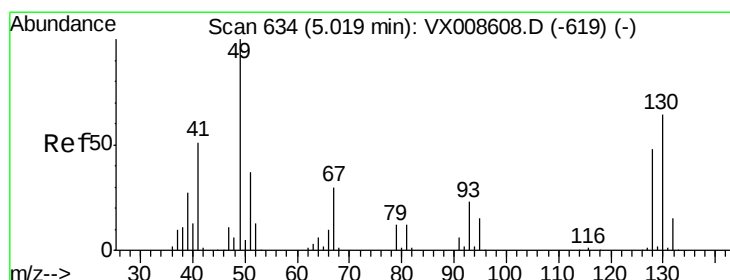
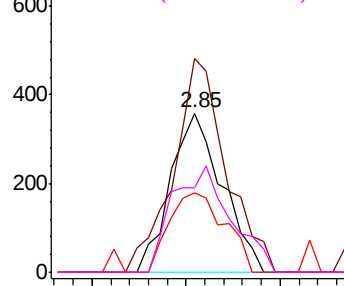


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX008737.D

Acq: 08 Apr 2019 11:56

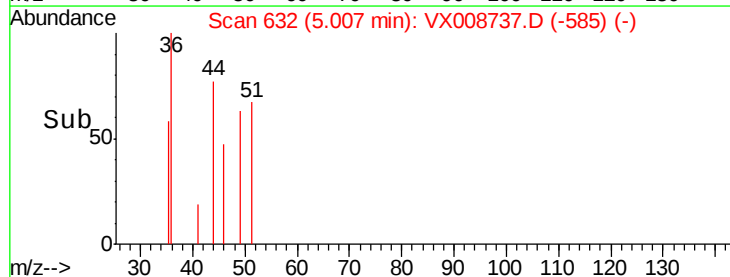
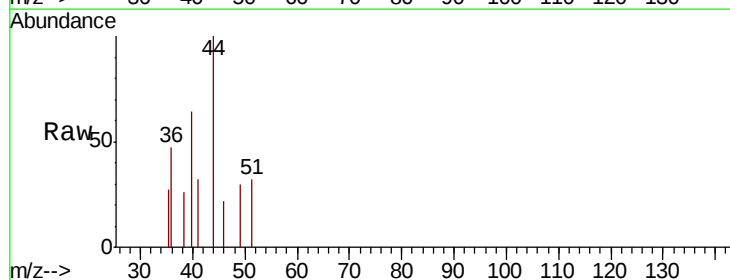
Tgt Ion: 49 Resp: 71

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

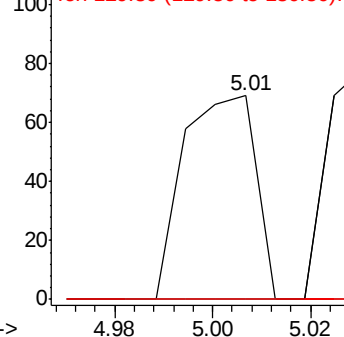
130 0.0 49.3 73.9#

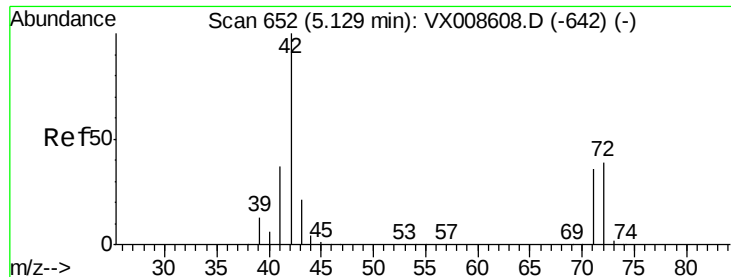


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

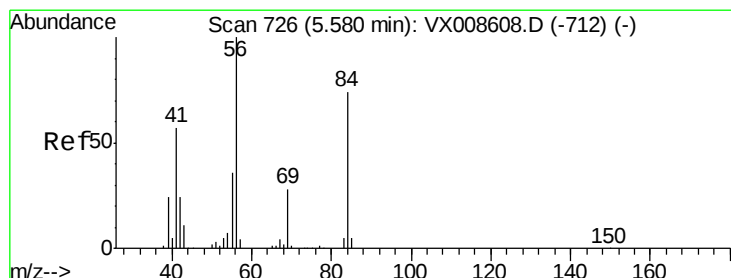
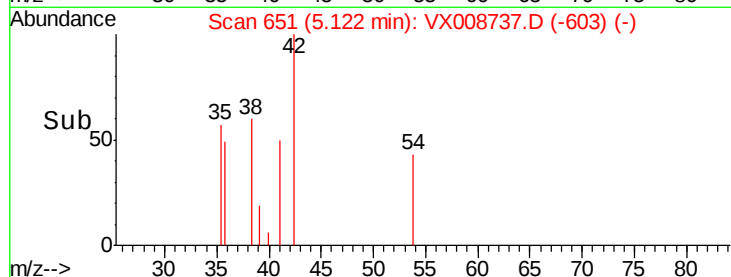
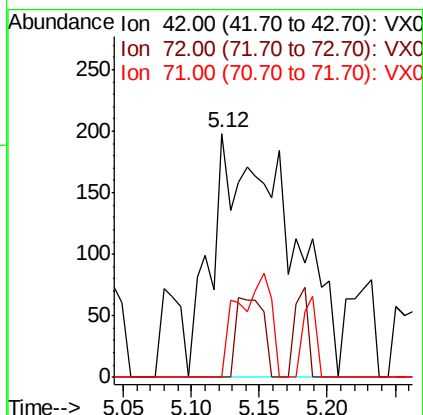
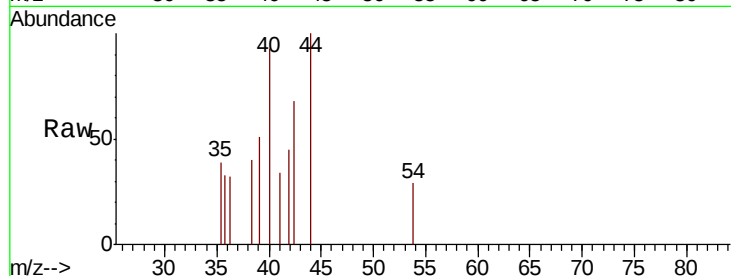




#29  
Tetrahydrofuran  
Concen: 0.430 ug/l  
RT: 5.12 min Scan# 651  
Delta R.T. -0.01 min  
Lab File: VX008737.D  
Acq: 08 Apr 2019 11:56

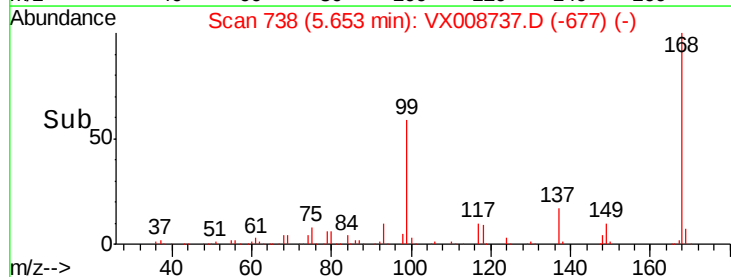
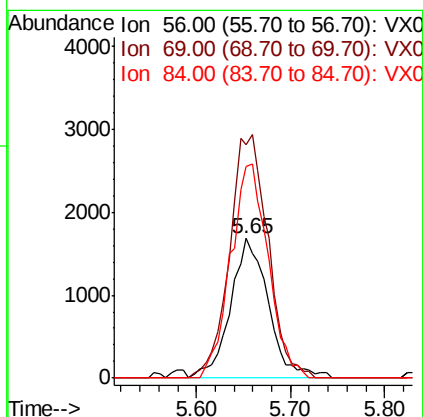
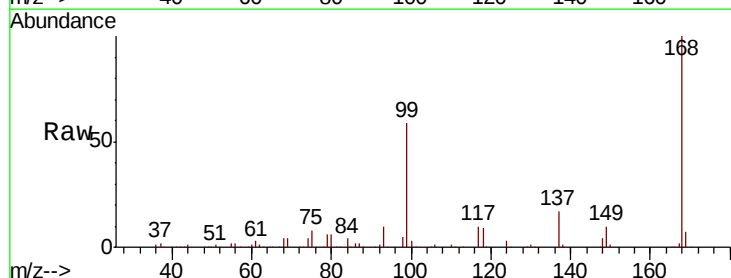
Instrument :  
MSVOA\_X  
ClientSampleID :  
VX0408MBL01

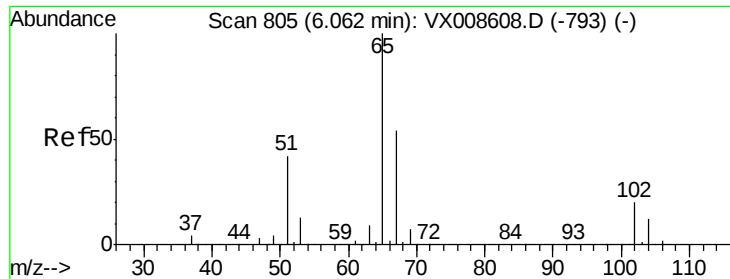
Tot Ion: 42 Resp: 775  
Ion Ratio Lower Upper  
42 100  
72 11.5 30.5 45.7#  
71 0.0 28.6 43.0#



#31  
Cyclohexane  
Concen: 0.923 ug/l  
RT: 5.65 min Scan# 738  
Delta R.T. 0.07 min  
Lab File: VX008737.D  
Acq: 08 Apr 2019 11:56

Tgt Ion: 56 Resp: 4753  
Ion Ratio Lower Upper  
56 100  
69 167.6 22.6 33.8#  
84 152.3 59.3 88.9#





#33

1,2-Dichloroethane-d4

Concen: 47.174 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008737.D

Acq: 08 Apr 2019 11:56

Instrument :

MSVOA\_X

ClientSampleId :

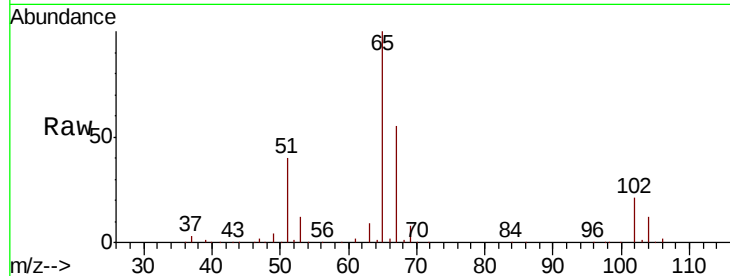
VX0408MBL01

Tot Ion: 65 Resp: 140598

Ion Ratio Lower Upper

65 100

67 54.0 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

30000

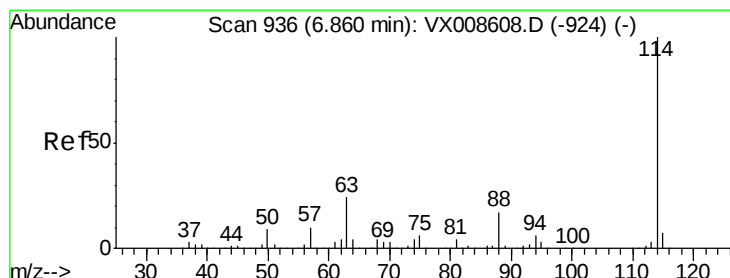
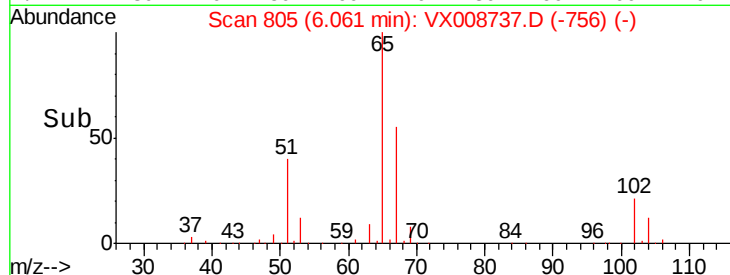
20000

10000

0

Time-->

5.90 6.00 6.10 6.20 6.30



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX008737.D

Acq: 08 Apr 2019 11:56

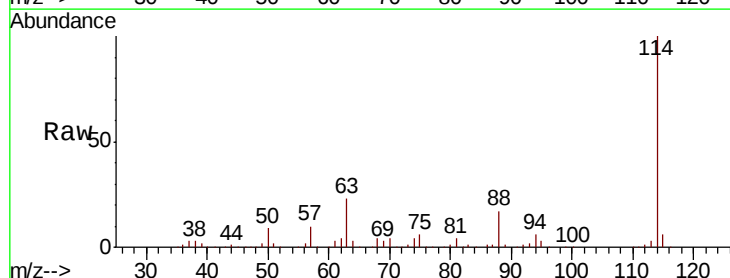
Tgt Ion: 114 Resp: 341431

Ion Ratio Lower Upper

114 100

63 23.4 0.0 47.2

88 17.0 0.0 34.0



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

200000

150000

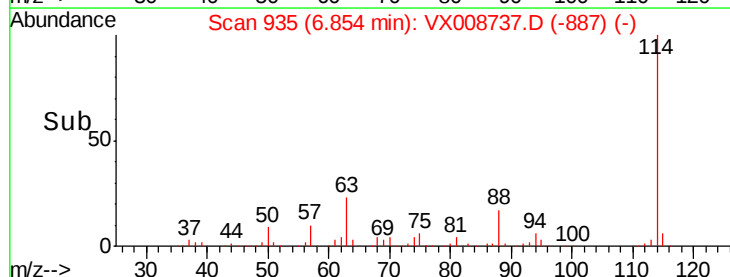
100000

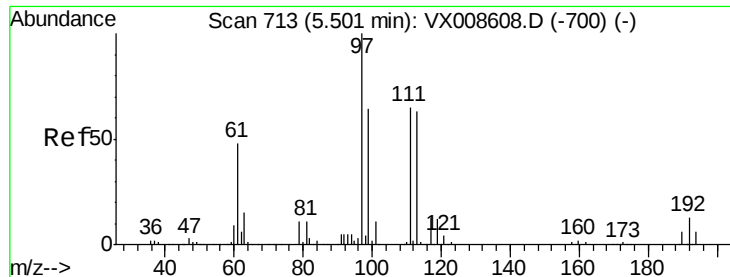
50000

0

Time-->

6.70 6.80 6.90 7.00

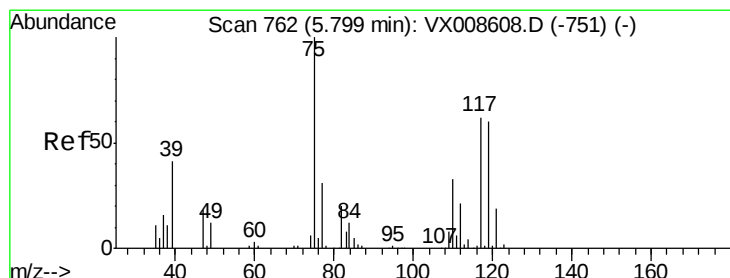
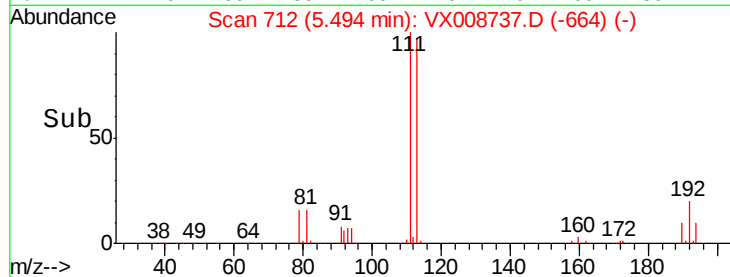
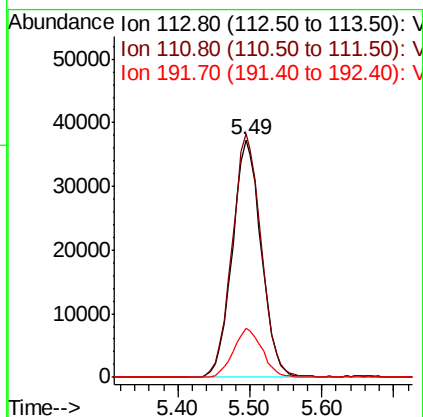
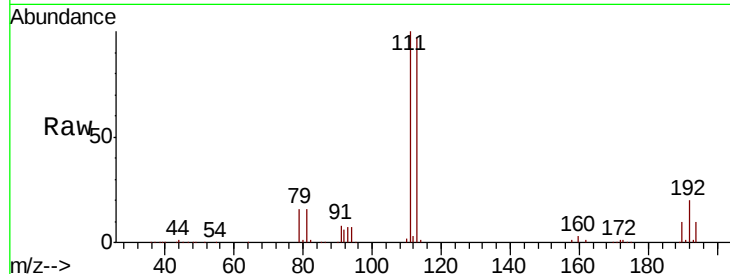




#35  
 Dibromofluoromethane  
 Concen: 47.575 ug/l  
 RT: 5.49 min Scan# 712  
 Delta R.T. -0.01 min  
 Lab File: VX008737.D  
 Acq: 08 Apr 2019 11:56

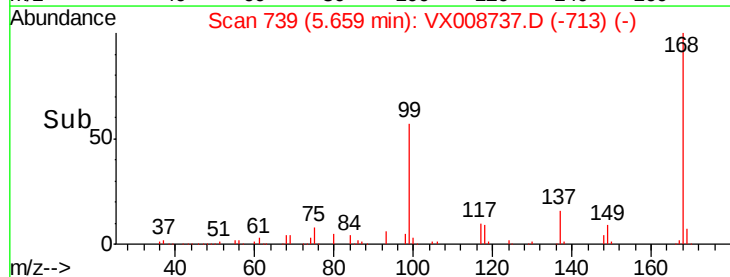
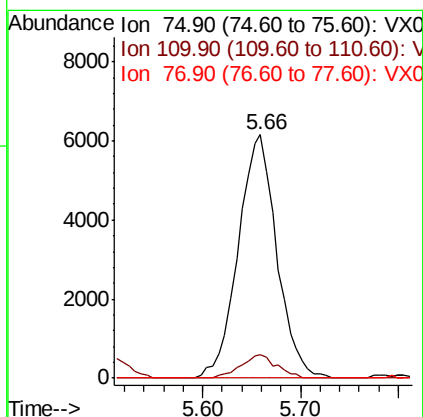
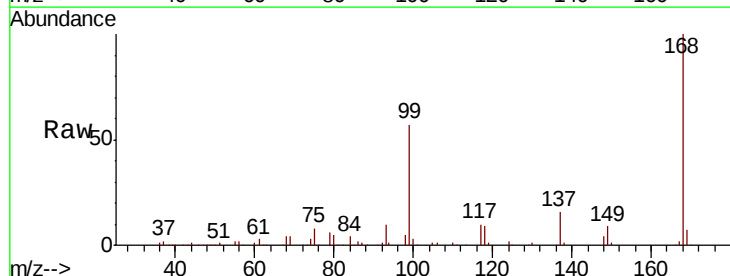
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0408MBL01

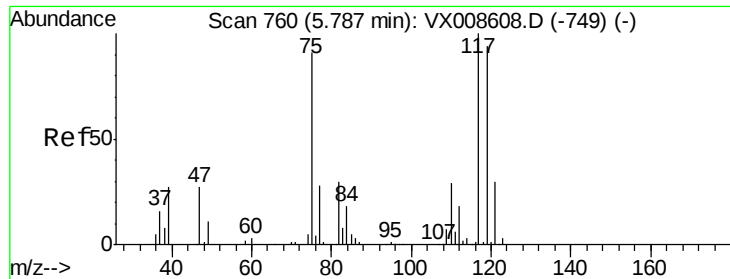
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.0 | 83.4  | 125.2 |
| 192     | 20.5  | 16.1  | 24.1  |



#36  
 1,1-Dichloropropene  
 Concen: 4.498 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX008737.D  
 Acq: 08 Apr 2019 11:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.8   | 16.4  | 49.2# |
| 77      | 0.0   | 24.7  | 37.1# |





#38

Carbon Tetrachloride

Concen: 6.361 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008737.D

Acq: 08 Apr 2019 11:56

Instrument :

MSVOA\_X

ClientSampleId :

VX0408MBL01

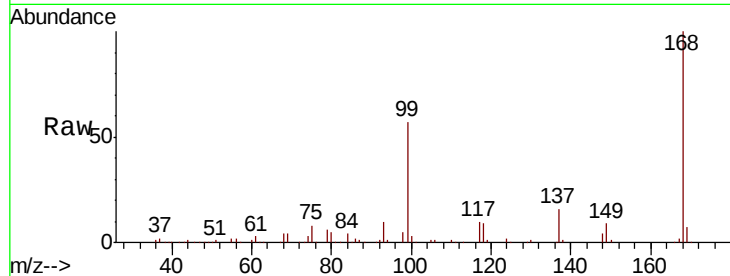
Tot Ion:117 Resp: 19650

Ion Ratio Lower Upper

117 100

119 5.7 75.0 112.6#

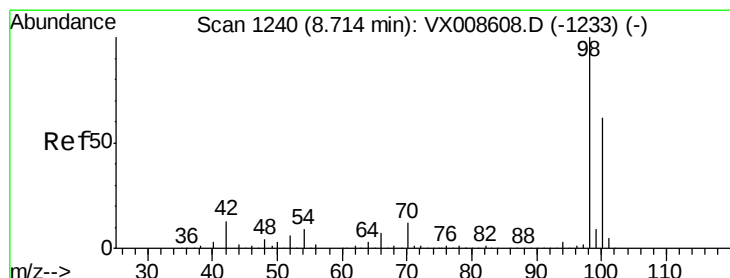
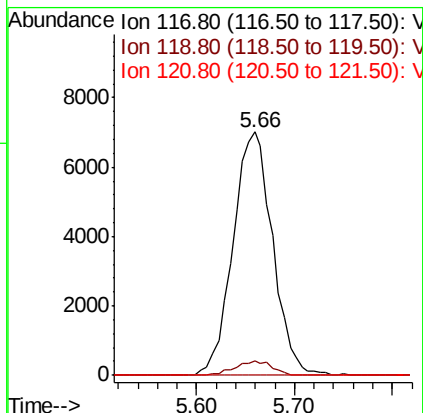
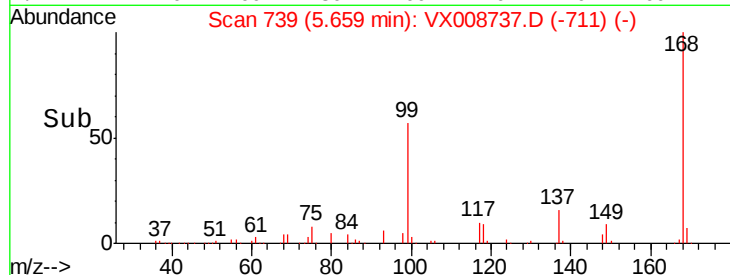
121 0.0 24.3 36.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 48.630 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008737.D

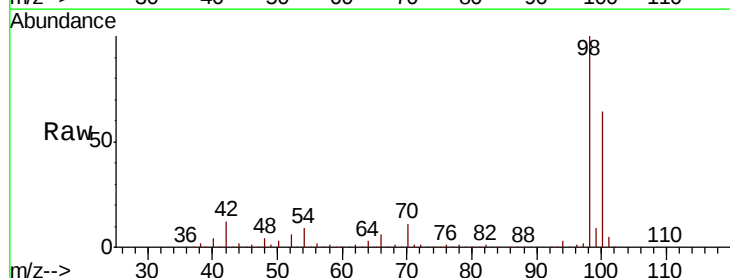
Acq: 08 Apr 2019 11:56

Tgt Ion: 98 Resp: 422691

Ion Ratio Lower Upper

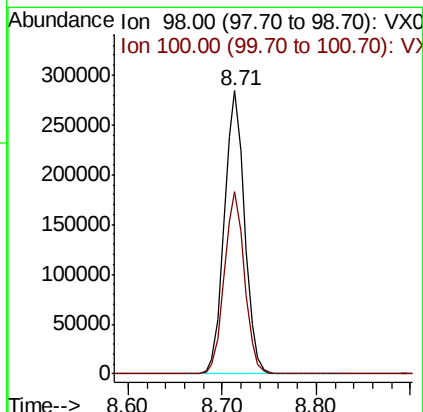
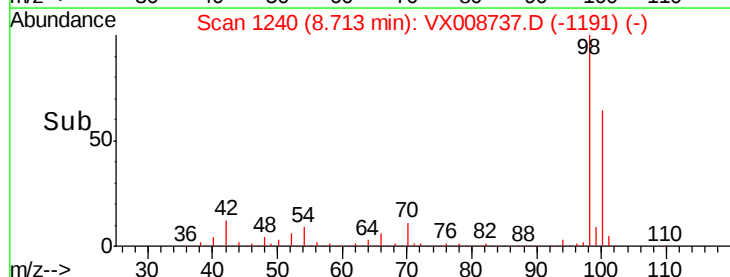
98 100

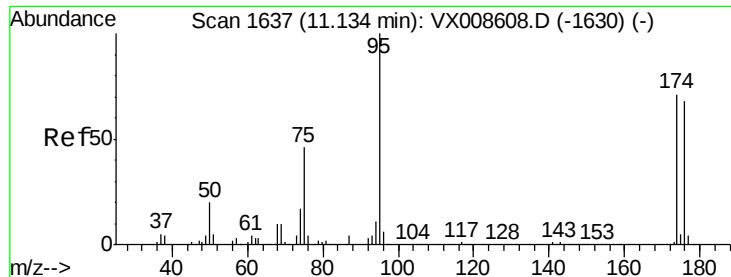
100 64.3 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.501 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008737.D

Acq: 08 Apr 2019 11:56

Instrument :

MSVOA\_X

ClientSampleId :

VX0408MBL01

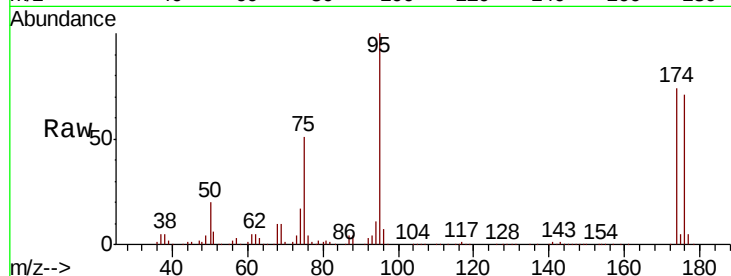
Tot Ion: 95 Resp: 137167

Ion Ratio Lower Upper

95 100

174 77.6 0.0 151.8

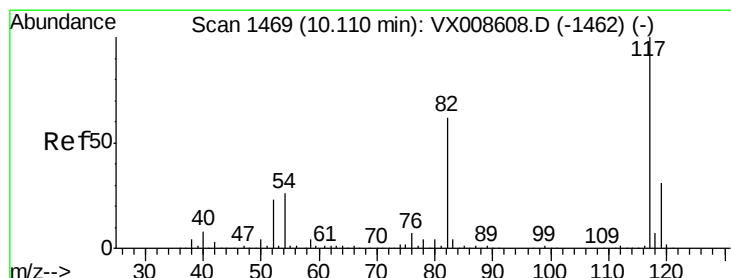
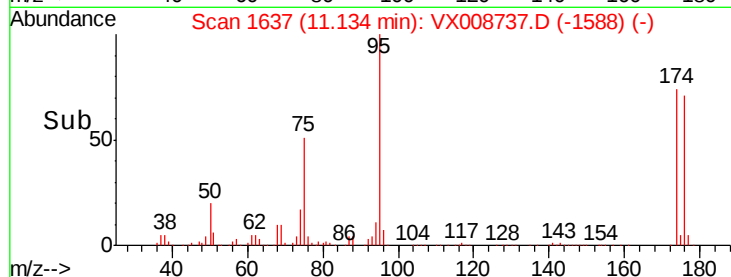
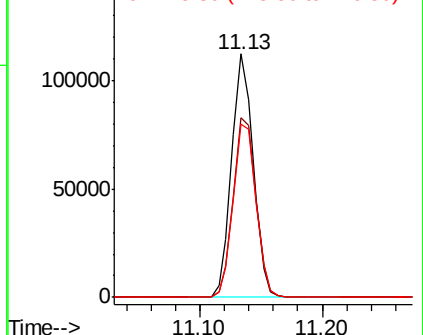
176 75.4 0.0 145.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008737.D

Acq: 08 Apr 2019 11:56

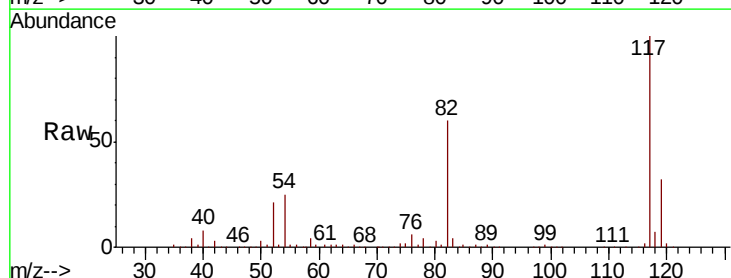
Tgt Ion: 117 Resp: 290624

Ion Ratio Lower Upper

117 100

82 59.8 49.6 74.4

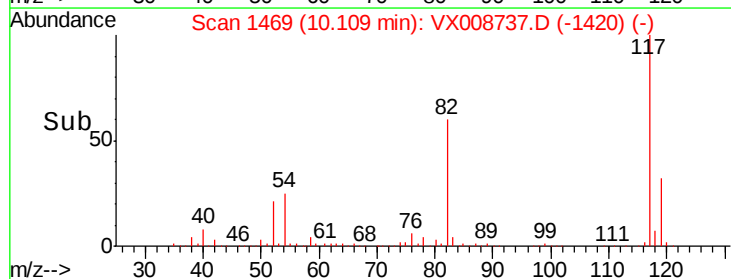
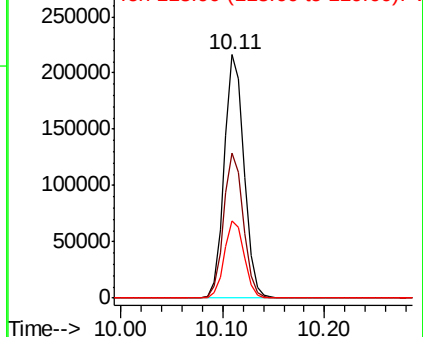
119 31.7 25.0 37.4

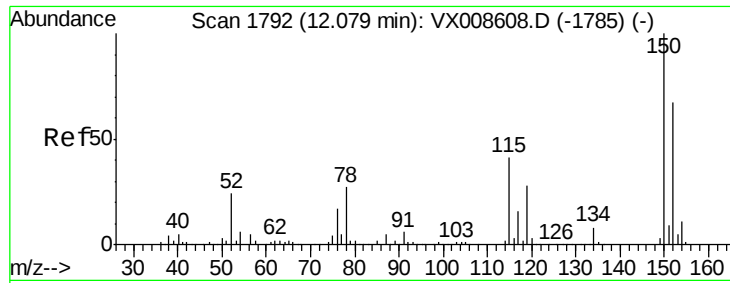


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): 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: VX008737.D

Acq: 08 Apr 2019 11:56

Instrument :

MSVOA\_X

ClientSampleId :

VX0408MBL01

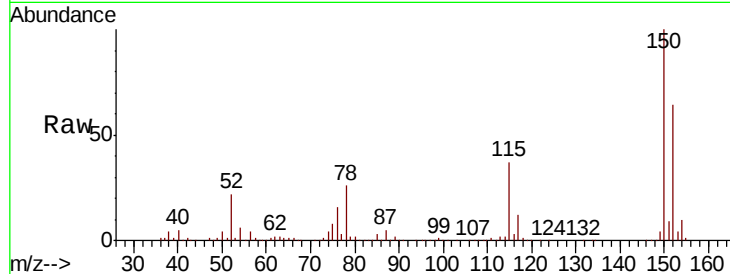
Tot Ion:152 Resp: 118651

Ion Ratio Lower Upper

152 100

115 60.1 43.5 130.5

150 157.3 0.0 348.8



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

200000

150000

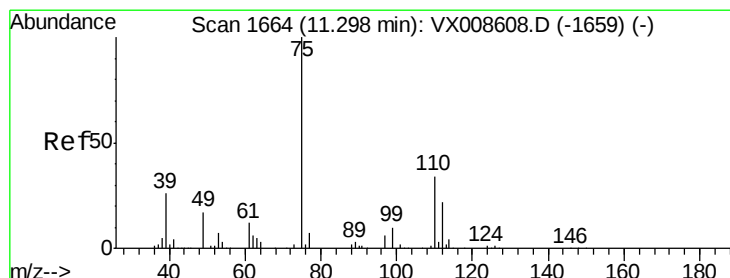
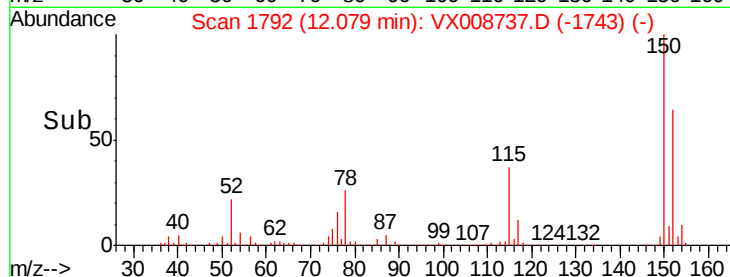
100000

50000

0

12.00 12.05 12.10 12.15

Time-->



#76

1,2,3-Trichloropropane

Concen: 21.598 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008737.D

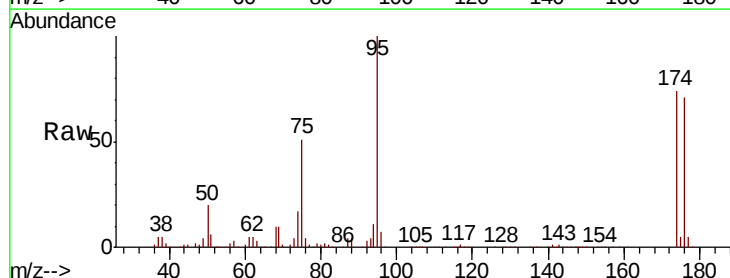
Acq: 08 Apr 2019 11:56

Tgt Ion: 75 Resp: 70399

Ion Ratio Lower Upper

75 100

77 1.3 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

60000

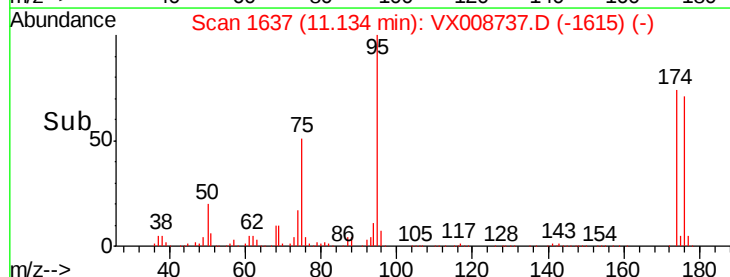
40000

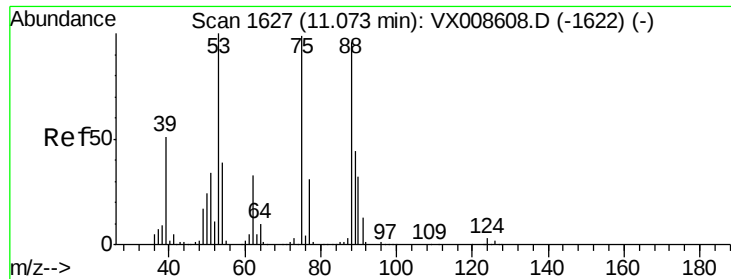
20000

0

11.10 11.20

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 59.537 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008737.D

Acq: 08 Apr 2019 11:56

Instrument :

MSVOA\_X

ClientSampleId :

VX0408MBL01

Tot Ion: 75 Resp: 70399

Ion Ratio Lower Upper

75 100

53 0.1 81.3 121.9#

89 0.0 35.6 53.4#

