

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061318\  
 Data File : VX002525.D  
 Acq On : 13 Jun 2018 23:35  
 Operator : JC/MD  
 Sample : VX0613MBL01  
 Misc : 5.00µl/10mL/100µL/5.0mL/MSVOA\_X/MEOH  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 14 03:33:27 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 05 03:22:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 203214   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 296691   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 281188   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 160489   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 162544   | 56.38 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.76% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 121253   | 51.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.94% |          |
| 50) Toluene-d8              | 8.72  | 98   | 468641   | 52.40 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.80% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 164172   | 47.61 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.22%  |          |

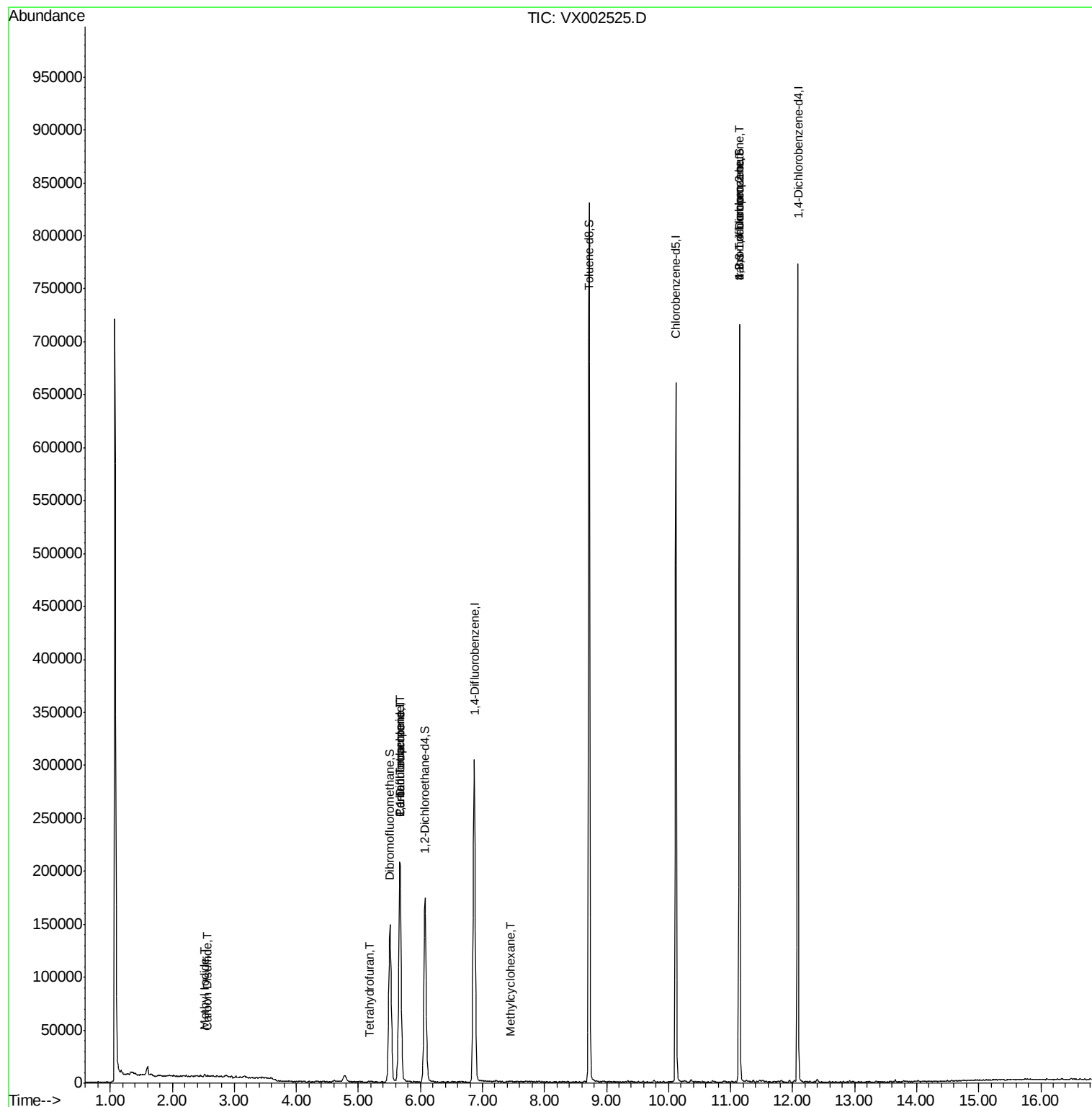
| Target Compounds               | R.T.  | QIon | Response | Conc       | Units | Qvalue |
|--------------------------------|-------|------|----------|------------|-------|--------|
| 3) Chloromethane               | 1.32  | 50   | 564      | Below Cal  |       | 100    |
| 5) Bromomethane                | 1.66  | 94   | 1241     | Below Cal  |       | 96     |
| 8) Diethyl Ether               | 2.21  | 74   | 100      | Below Cal  |       | 95     |
| 10) Methyl Iodide              | 2.52  | 142  | 2108     | 0.68 ug/l  |       | 92     |
| 11) Tert butyl alcohol         | 3.08  | 59   | 139      | Below Cal  | #     | 1      |
| 13) Acrolein                   | 2.29  | 56   | 147      | Below Cal  | #     | 1      |
| 15) Acrylonitrile              | 3.15  | 53   | 377      | Below Cal  | #     | 40     |
| 16) Acetone                    | 2.45  | 43   | 1204     | Below Cal  | #     | 84     |
| 17) Carbon Disulfide           | 2.57  | 76   | 1230     | 0.22 ug/l  | #     | 80     |
| 18) Methyl Acetate             | 2.78  | 43   | 501      | Below Cal  | #     | 60     |
| 19) Methyl tert-butyl Ether    | 3.21  | 73   | 24       | Below Cal  | #     | 54     |
| 20) Methylene Chloride         | 2.87  | 84   | 615      | Below Cal  | #     | 62     |
| 22) Diisopropyl ether          | 3.88  | 45   | 259      | Below Cal  | #     | 52     |
| 28) Bromochloromethane         | 5.04  | 49   | 20       | Below Cal  | #     | 13     |
| 29) Tetrahydrofuran            | 5.17  | 42   | 316      | 0.25 ug/l  |       | 98     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 14773    | 4.74 ug/l  | #     | 51     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 19771    | 6.06 ug/l  | #     | 15     |
| 39) Methylcyclohexane          | 7.46  | 83   | 275      | 0.33 ug/l  | #     | 73     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 89479    | 25.41 ug/l | #     | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 89479    | 89.07 ug/l | #     | 6      |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX061318\  
Data File : VX002525.D  
Acq On : 13 Jun 2018 23:35  
Operator : JC/MD  
Sample : VX0613MBL01  
Misc : 5.00µL/10mL/100uL/5.0mL/MSVOA\_X/MEOH  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Jun 14 03:33:27 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 05 03:22:35 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002525.D

Acq: 13 Jun 2018 23:35

Instrument :

MSVOA\_X

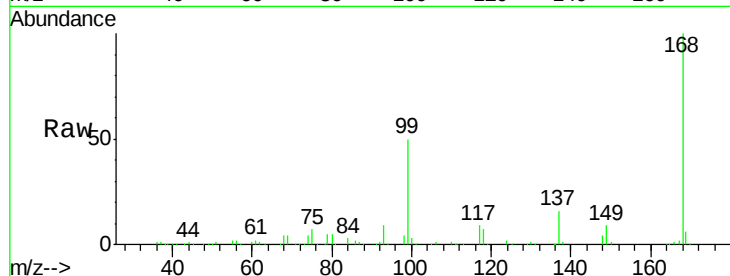
ClientSampled :

Tot Ion:168 Resp: 203214

Ion Ratio Lower Upper

168 100

99 49.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

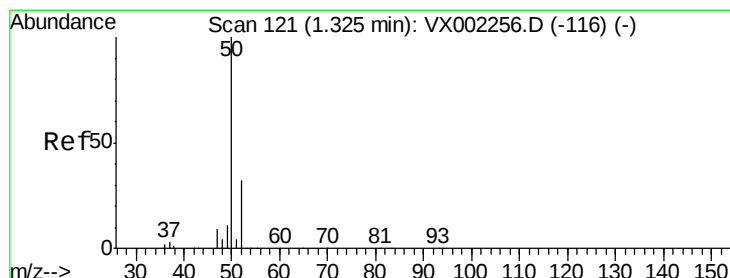
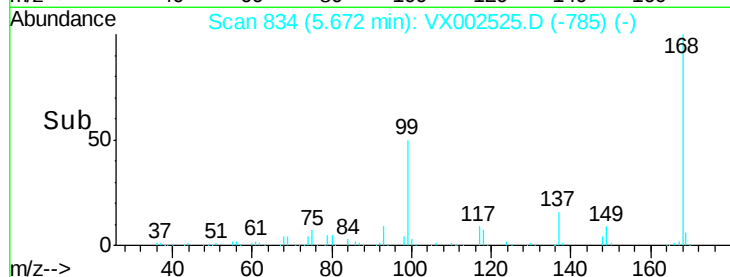
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002525.D

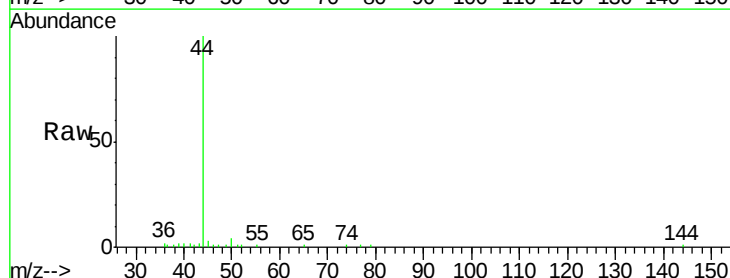
Acq: 13 Jun 2018 23:35

Tgt Ion: 50 Resp: 564

Ion Ratio Lower Upper

50 100

52 32.0 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

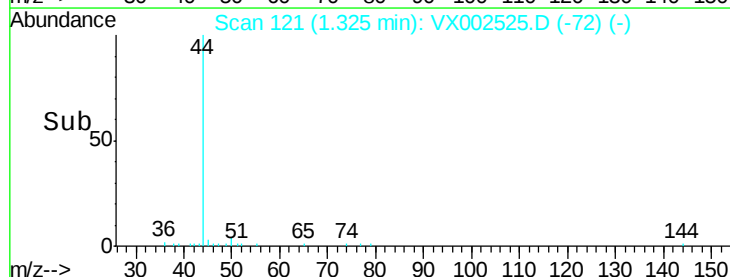
300

200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002525.D

Acq: 13 Jun 2018 23:35

Instrument :

MSVOA\_X

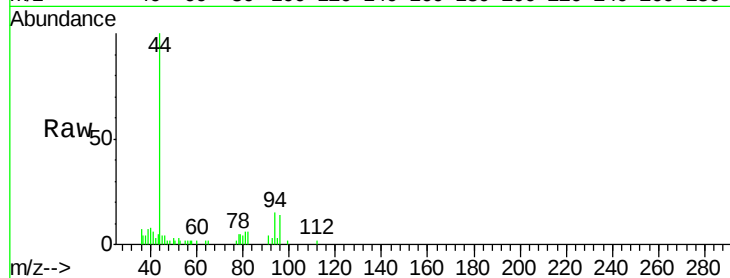
ClientSampled :

Tot Ion: 94 Resp: 1241

Ion Ratio Lower Upper

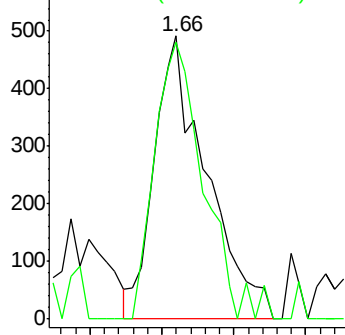
94 100

96 97.6 74.9 112.3

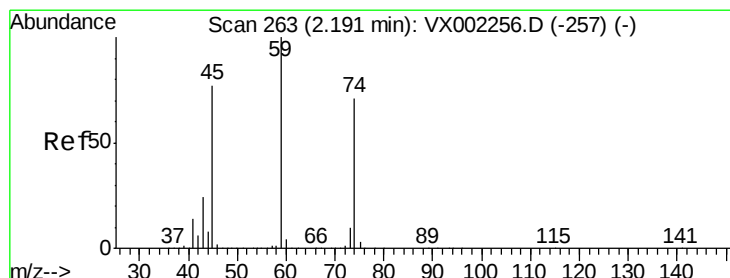
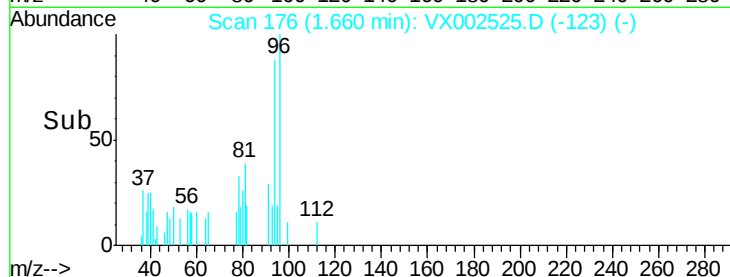


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 2.21 min Scan# 267

Delta R.T. 0.02 min

Lab File: VX002525.D

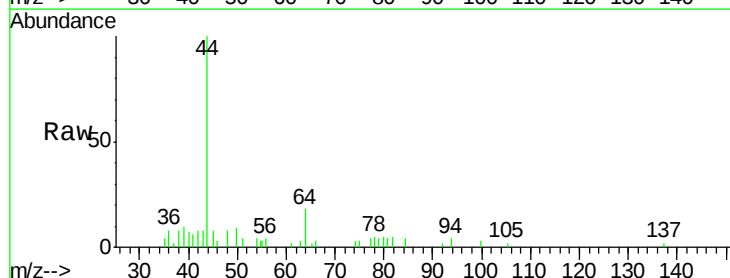
Acq: 13 Jun 2018 23:35

Tgt Ion: 74 Resp: 100

Ion Ratio Lower Upper

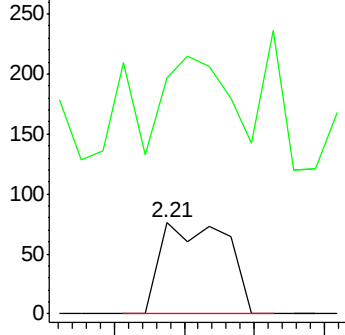
74 100

45 101.0 53.1 159.4

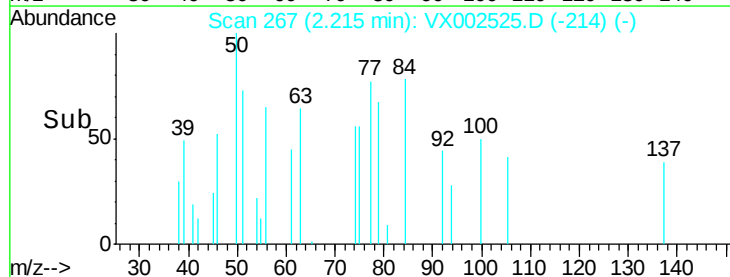


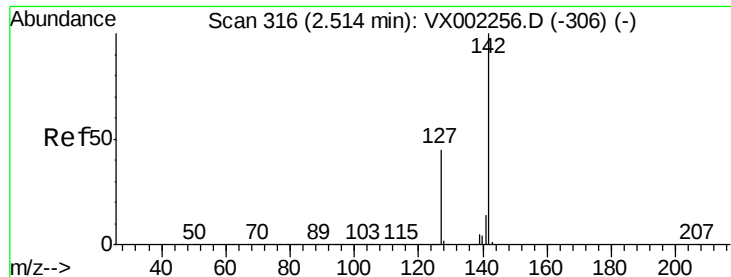
Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->

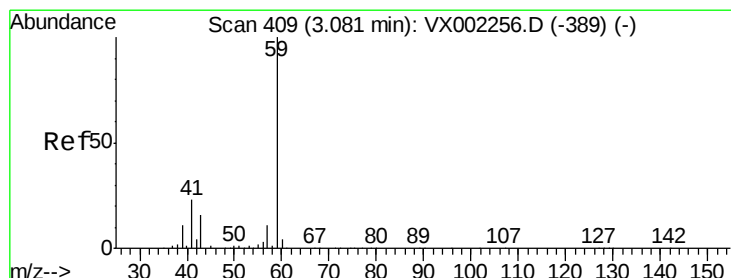
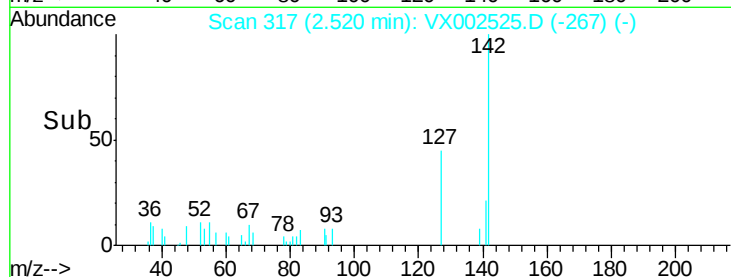
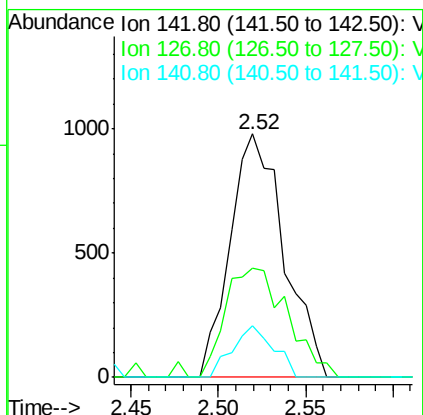
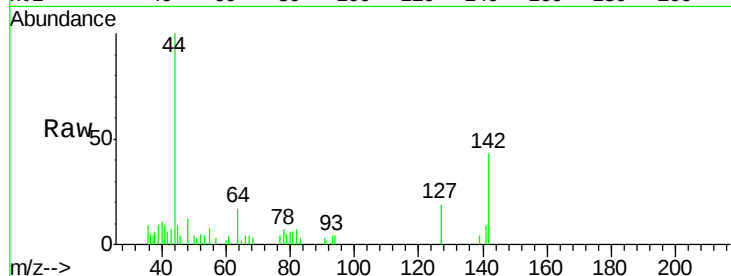




#10  
Methyl Iodide  
Concen: 0.68 ug/l  
RT: 2.52 min Scan# 317  
Delta R.T. 0.01 min  
Lab File: VX002525.D  
Acq: 13 Jun 2018 23:35

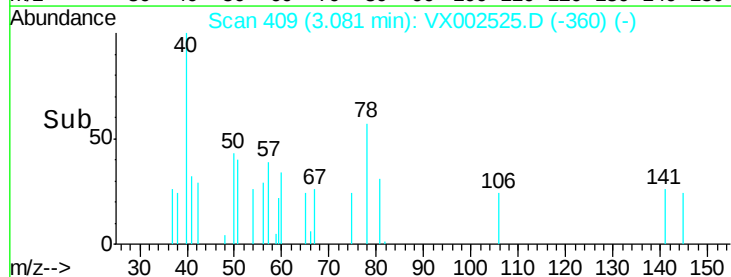
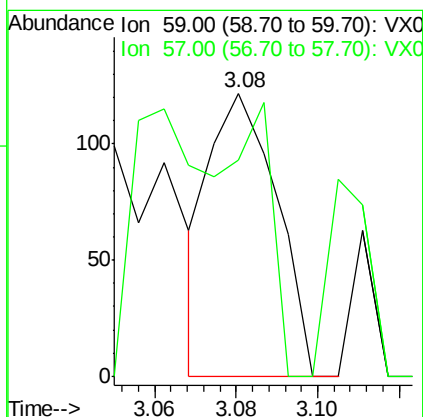
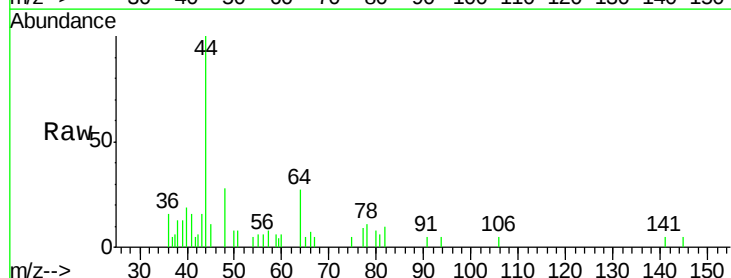
Instrument :  
MSVOA\_X  
ClientSampled :

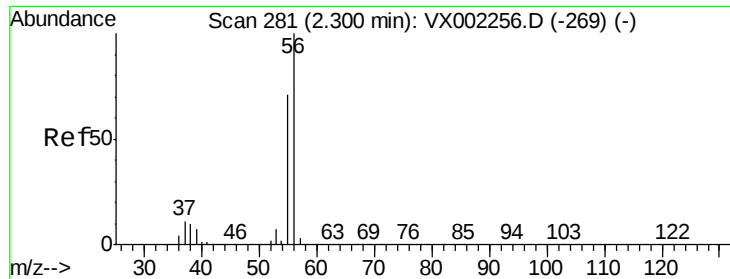
Tot Ion:142 Resp: 2108  
Ion Ratio Lower Upper  
142 100  
127 51.7 36.6 55.0  
141 16.1 11.3 16.9



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 3.08 min Scan# 409  
Delta R.T. 0.00 min  
Lab File: VX002525.D  
Acq: 13 Jun 2018 23:35

Tgt Ion: 59 Resp: 139  
Ion Ratio Lower Upper  
59 100  
57 175.5 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX002525.D

Acq: 13 Jun 2018 23:35

Instrument :

MSVOA\_X

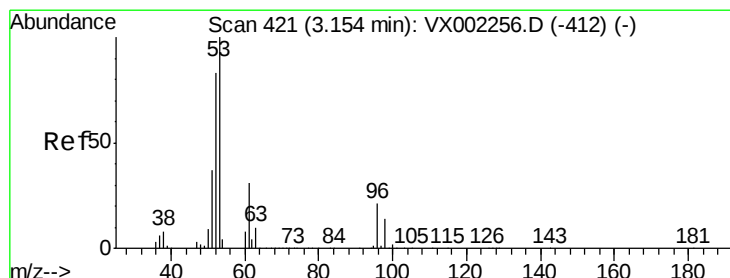
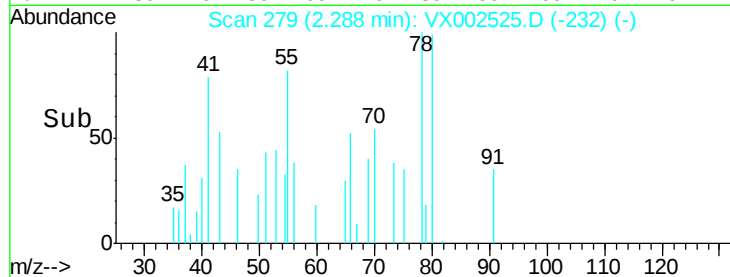
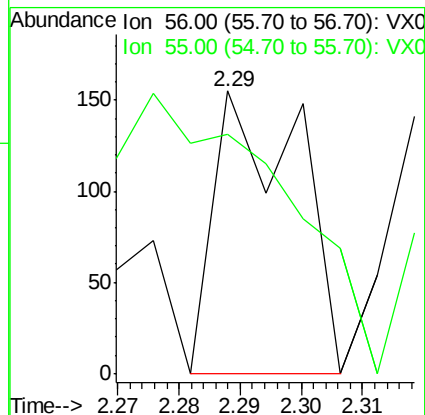
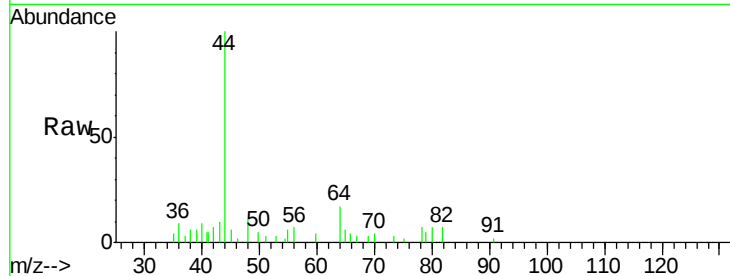
ClientSampled :

Tot Ion: 56 Resp: 147

Ion Ratio Lower Upper

56 100

55 254.4 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002525.D

Acq: 13 Jun 2018 23:35

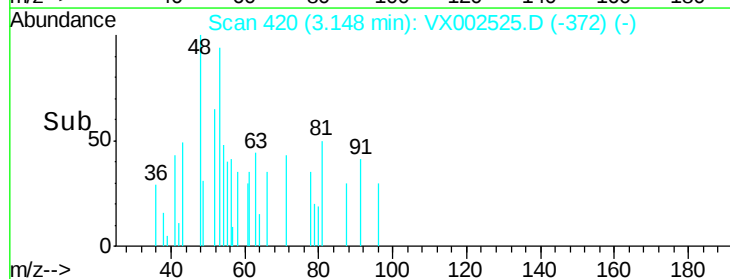
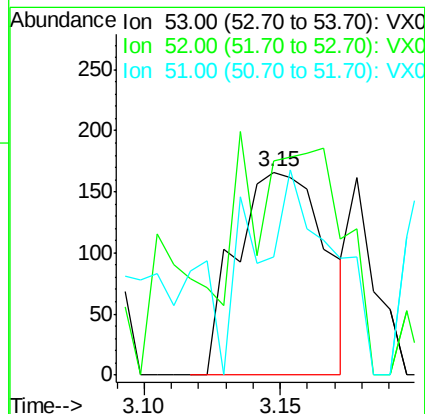
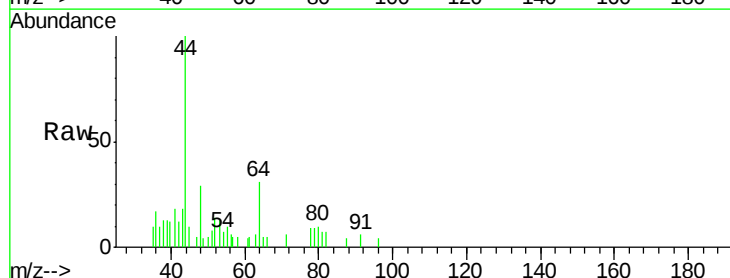
Tgt Ion: 53 Resp: 377

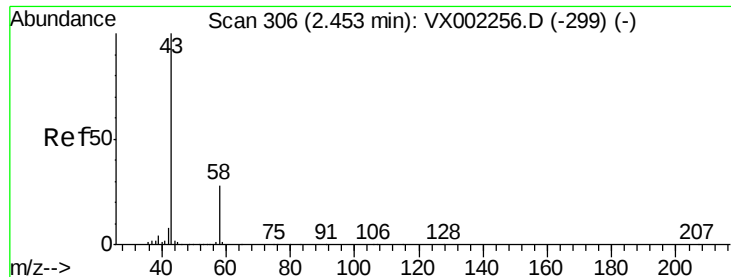
Ion Ratio Lower Upper

53 100

52 126.8 66.7 100.1#

51 89.9 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002525.D

Acq: 13 Jun 2018 23:35

Instrument :

MSVOA\_X

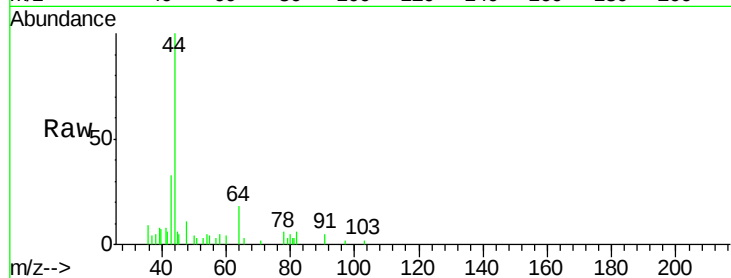
ClientSampled :

Tot Ion: 43 Resp: 1204

Ion Ratio Lower Upper

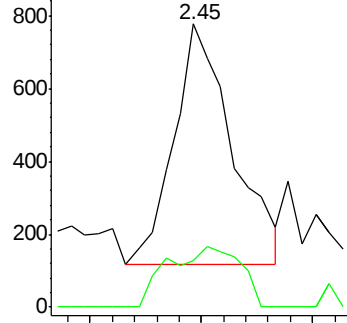
43 100

58 19.2 22.1 33.1#

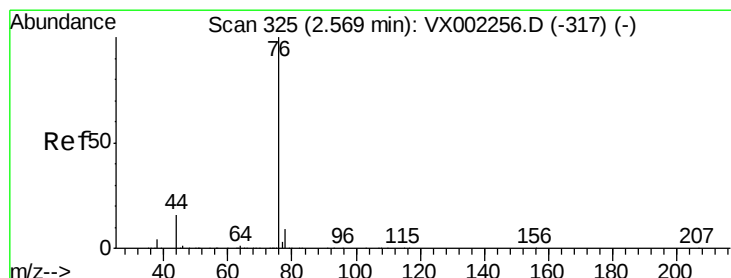
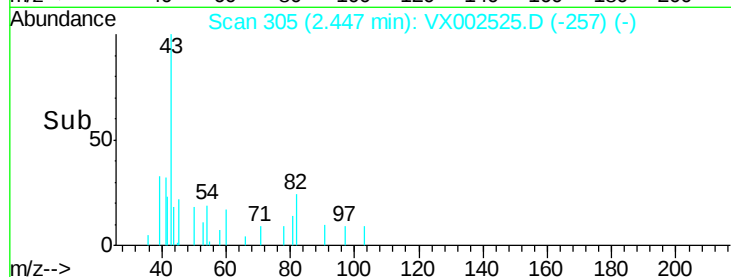


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#17

Carbon Disulfide

Concen: 0.22 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX002525.D

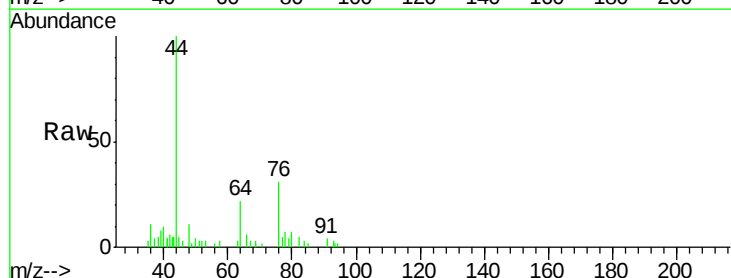
Acq: 13 Jun 2018 23:35

Tgt Ion: 76 Resp: 1230

Ion Ratio Lower Upper

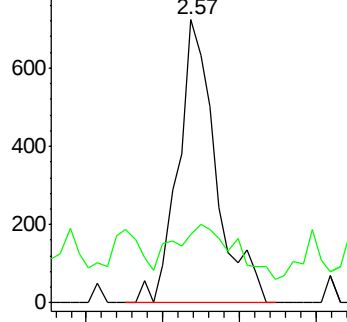
76 100

78 15.8 6.9 10.3#

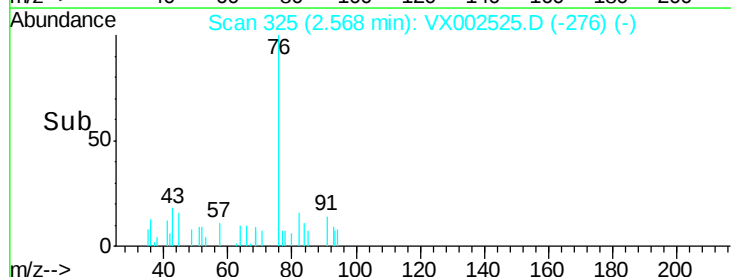


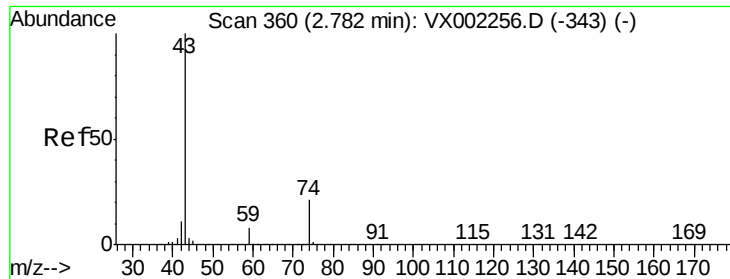
Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



Time-->

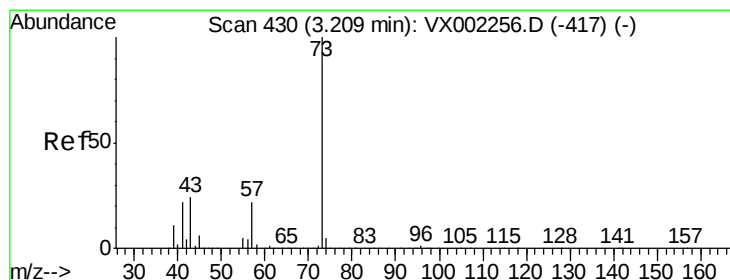
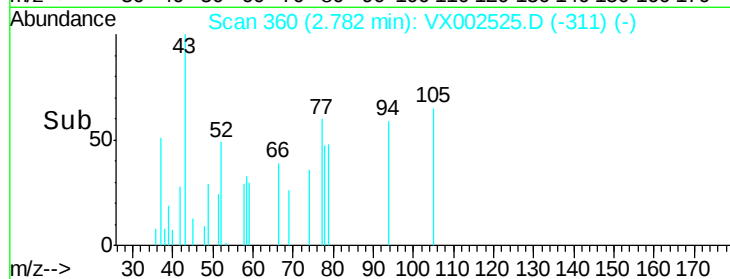
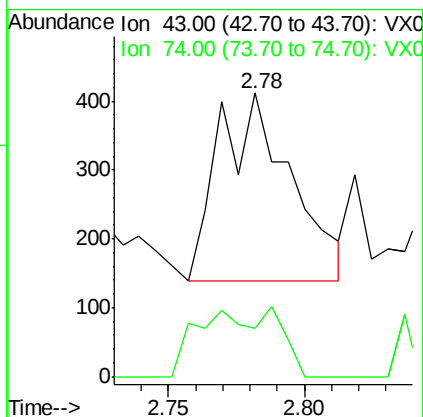
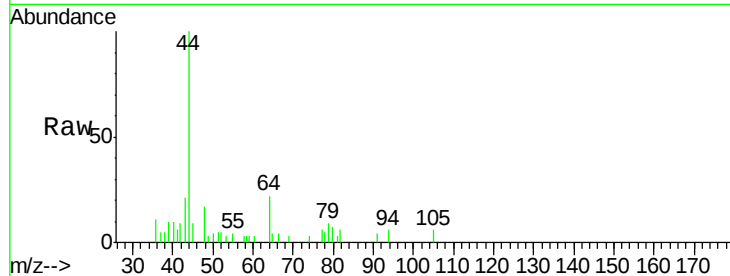




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 2.78 min Scan# 360  
Delta R.T. -0.00 min  
Lab File: VX002525.D  
Acq: 13 Jun 2018 23:35

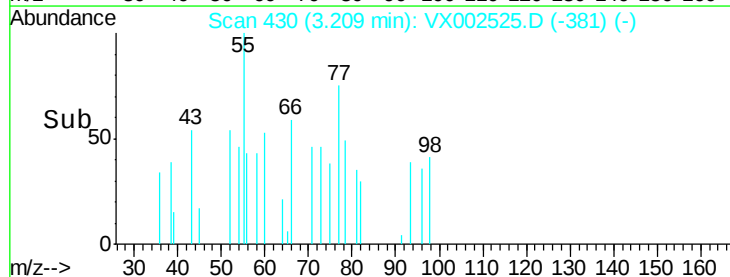
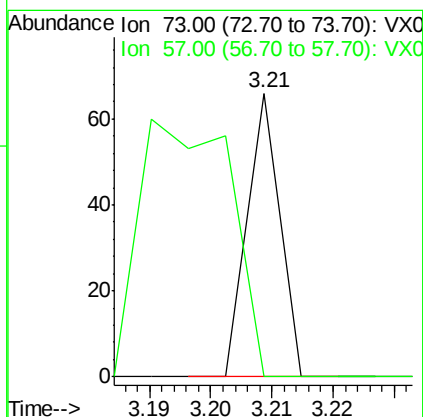
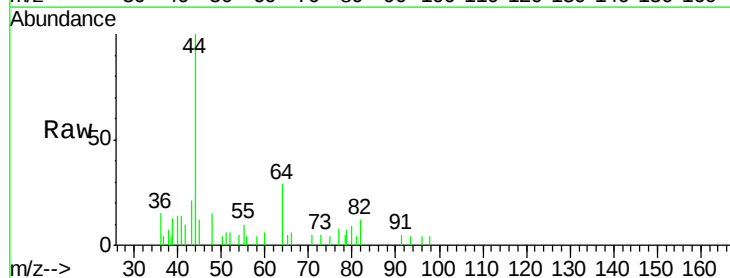
Instrument :  
MSVOA\_X  
ClientSampled :

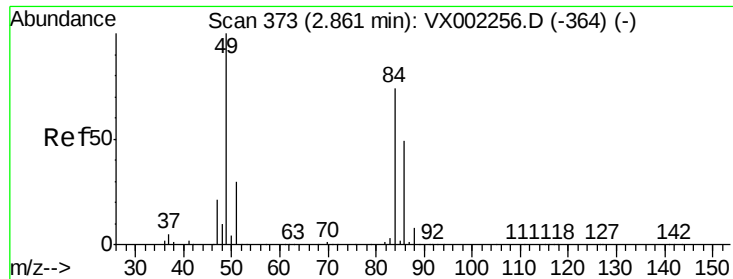
Tot Ion: 43 Resp: 501  
Ion Ratio Lower Upper  
43 100  
74 39.5 16.7 25.1#



#19  
Methyl tert-butyl Ether  
Concen: Below Cal  
RT: 3.21 min Scan# 430  
Delta R.T. 0.00 min  
Lab File: VX002525.D  
Acq: 13 Jun 2018 23:35

Tgt Ion: 73 Resp: 24  
Ion Ratio Lower Upper  
73 100  
57 0.0 17.7 26.5#

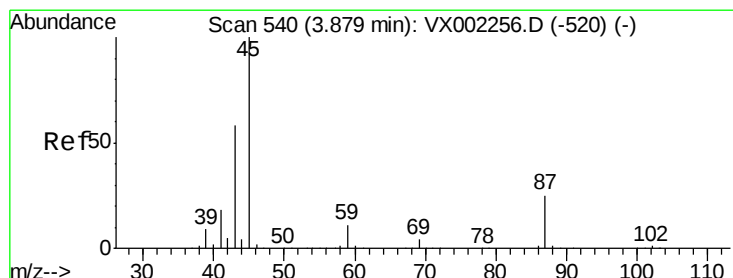
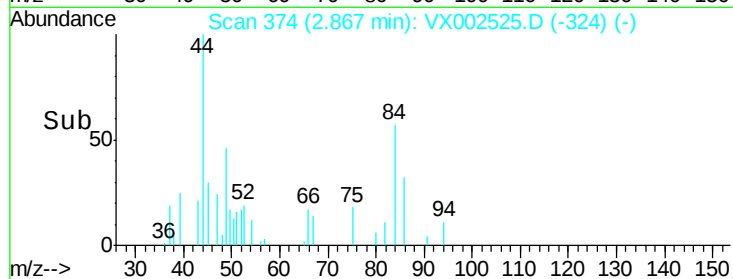
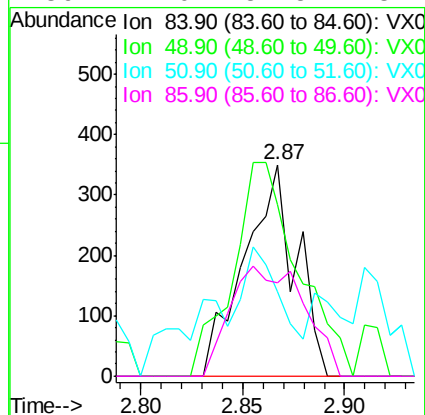
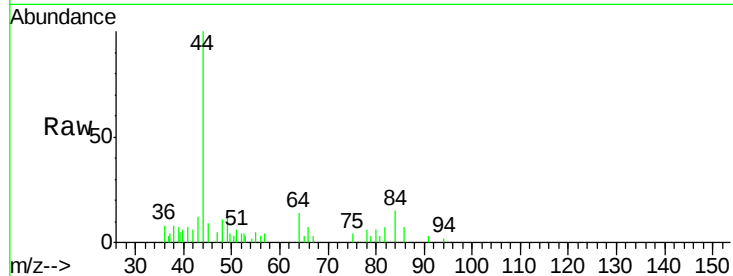




#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 2.87 min Scan# 374  
Delta R.T. 0.01 min  
Lab File: VX002525.D  
Acq: 13 Jun 2018 23:35

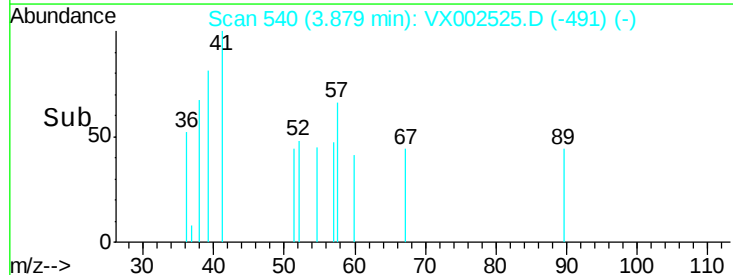
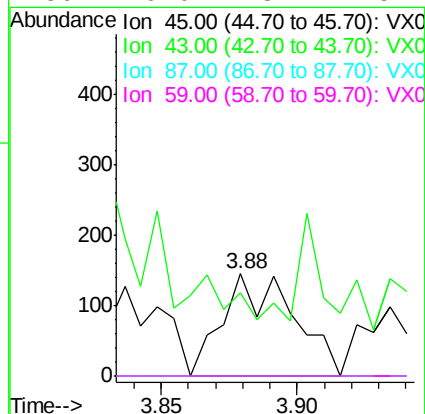
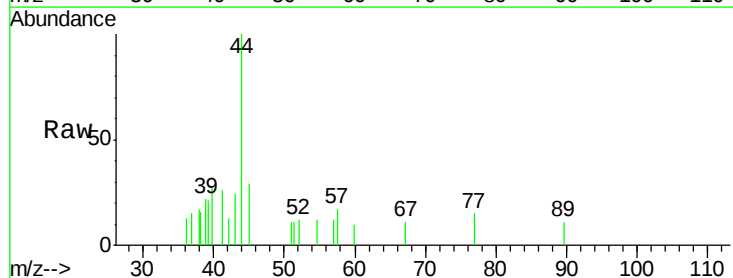
Instrument :  
MSVOA\_X  
ClientSampled :

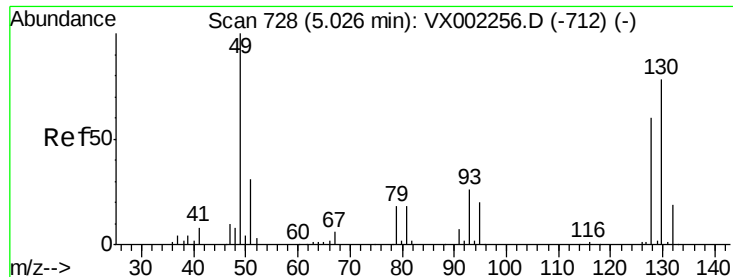
Tot Ion: 84 Resp: 615  
Ion Ratio Lower Upper  
84 100  
49 81.1 107.8 161.6#  
51 22.6 32.8 49.2#  
86 44.0 52.5 78.7#



#22  
Diisopropyl ether  
Concen: Below Cal  
RT: 3.88 min Scan# 540  
Delta R.T. 0.00 min  
Lab File: VX002525.D  
Acq: 13 Jun 2018 23:35

Tgt Ion: 45 Resp: 259  
Ion Ratio Lower Upper  
45 100  
43 20.7 46.8 70.2#  
87 0.0 20.2 30.4#  
59 0.0 8.7 13.1#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 730

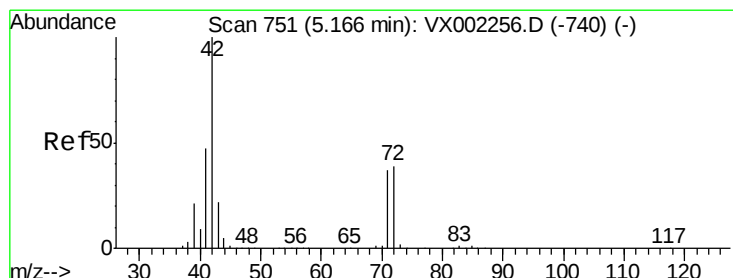
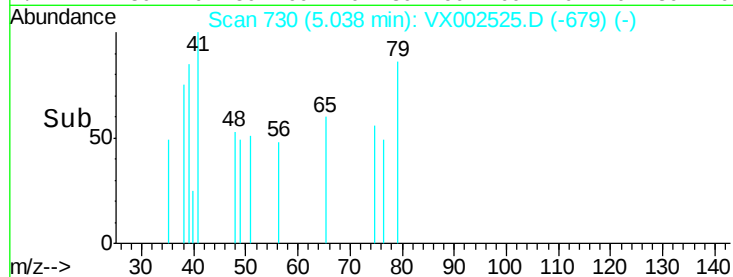
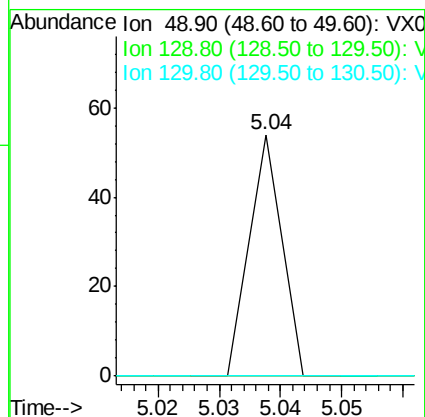
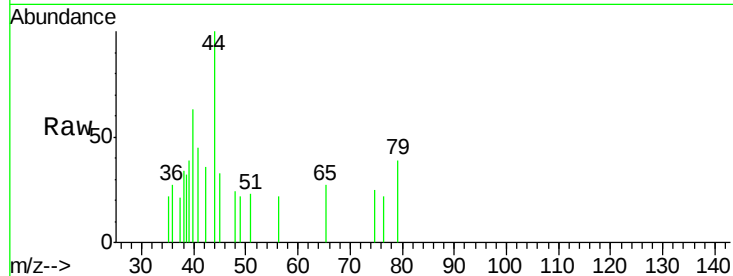
Delta R.T. 0.01 min

Lab File: VX002525.D

Acq: 13 Jun 2018 23:35

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 49 Resp: 20  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 4.2  
130 0.0 61.2 91.8#



#29

Tetrahydrofuran

Concen: 0.25 ug/l

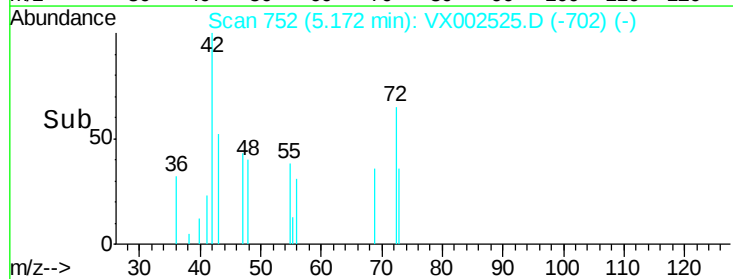
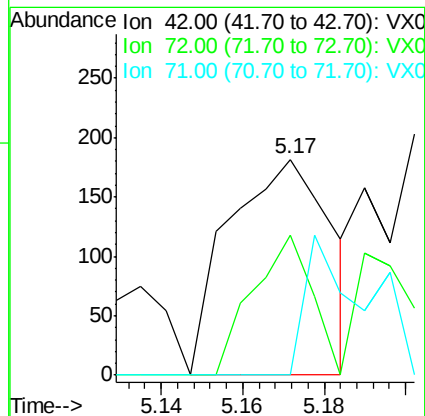
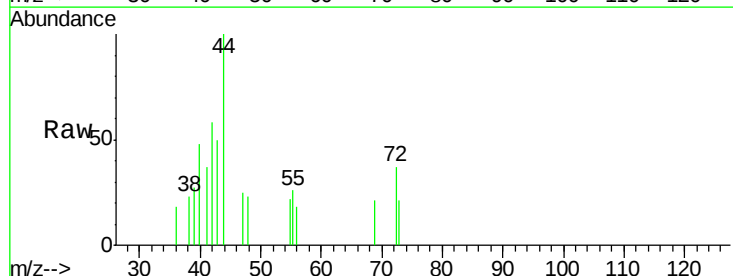
RT: 5.17 min Scan# 752

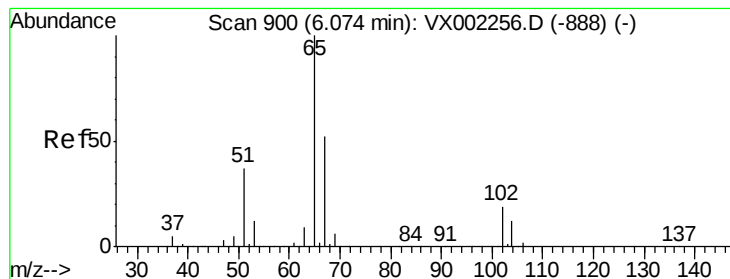
Delta R.T. 0.01 min

Lab File: VX002525.D

Acq: 13 Jun 2018 23:35

Tgt Ion: 42 Resp: 316  
Ion Ratio Lower Upper  
42 100  
72 38.0 32.0 48.0  
71 38.0 30.1 45.1





#33

1,2-Dichloroethane-d4

Concen: 56.38 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002525.D

Acq: 13 Jun 2018 23:35

Instrument :

MSVOA\_X

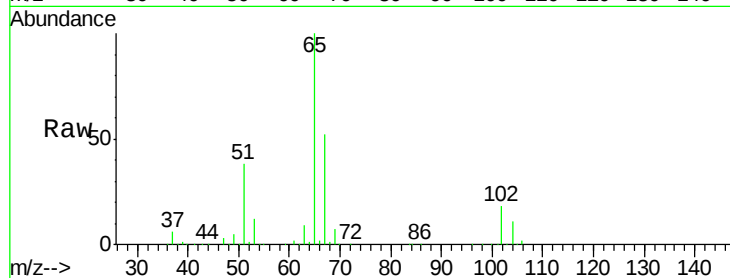
ClientSampleId :

Tot Ion: 65 Resp: 162544

Ion Ratio Lower Upper

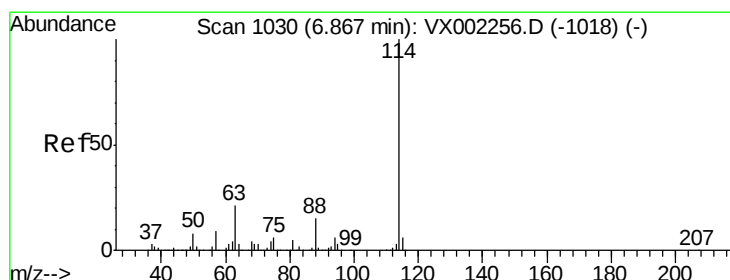
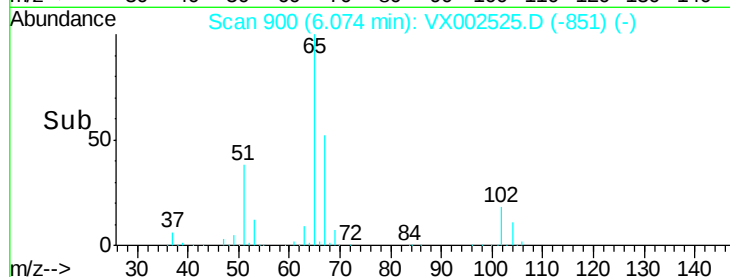
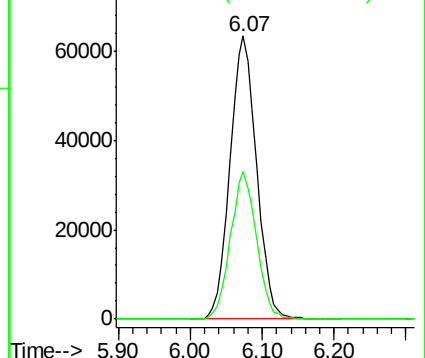
65 100

67 51.1 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002525.D

Acq: 13 Jun 2018 23:35

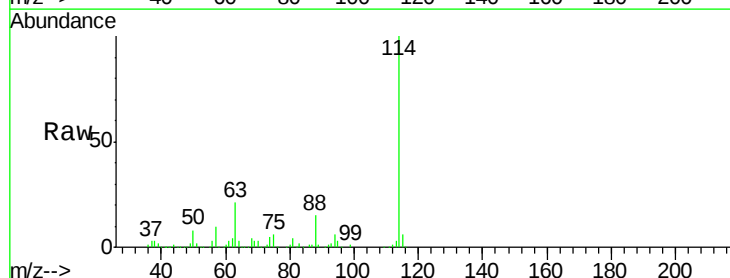
Tgt Ion: 114 Resp: 296691

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.4

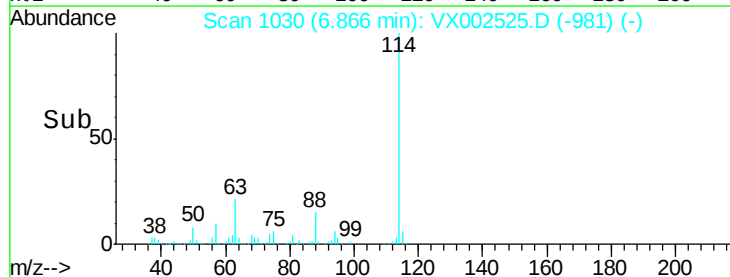
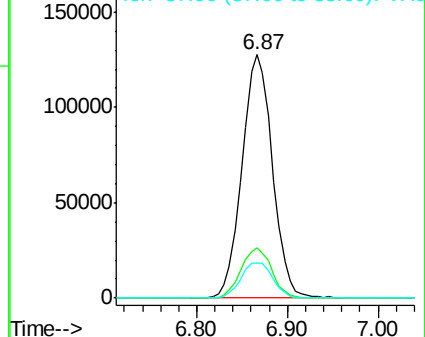
88 14.5 0.0 30.0

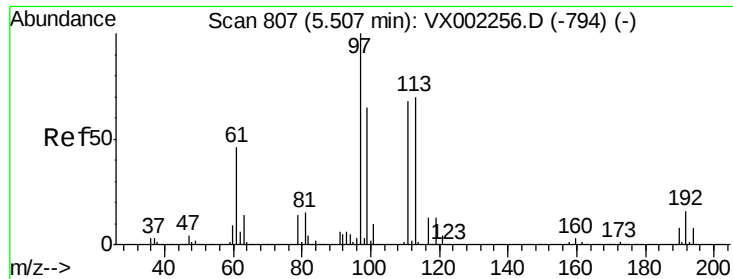


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.97 ug/l

RT: 5.51 min Scan# 807

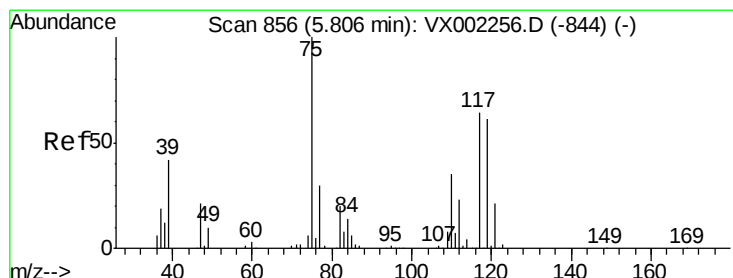
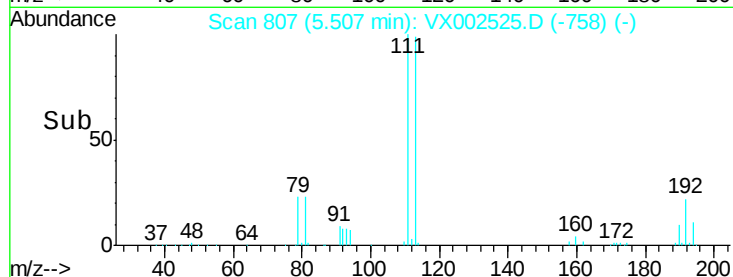
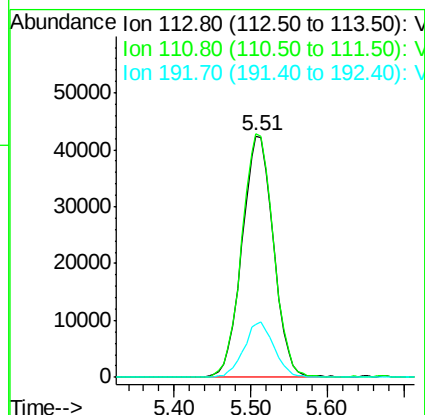
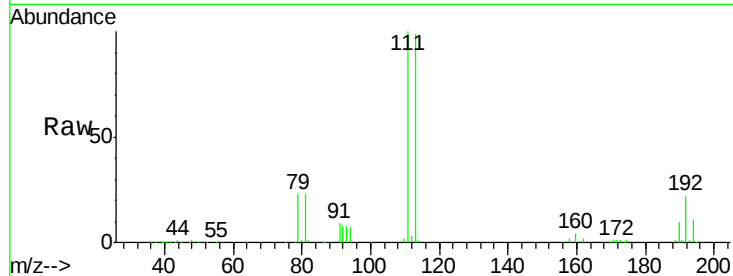
Delta R.T. -0.00 min

Lab File: VX002525.D

Acq: 13 Jun 2018 23:35

Instrument :  
MSVOA\_X  
ClientSampled :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 113   | Resp: | 121253 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 101.3 | 81.4  | 122.0  |
| 192      | 21.9  | 19.1  | 28.7   |



#36

1,1-Dichloropropene

Concen: 4.74 ug/l

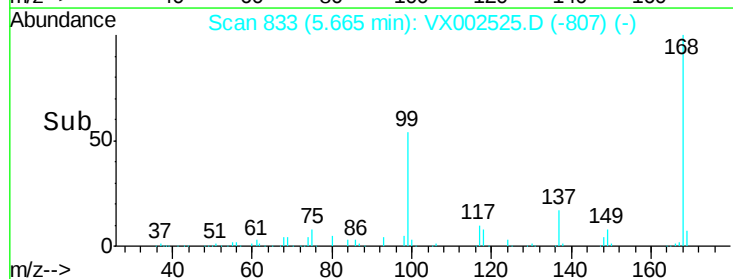
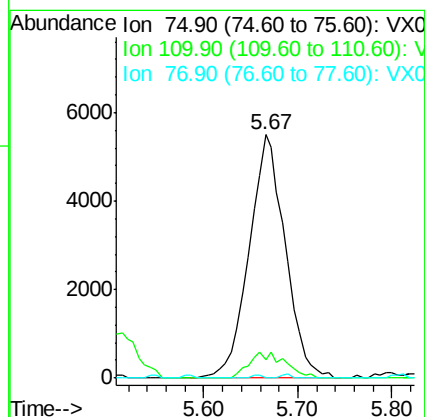
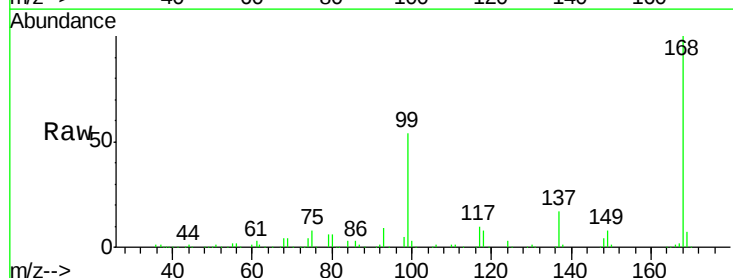
RT: 5.67 min Scan# 833

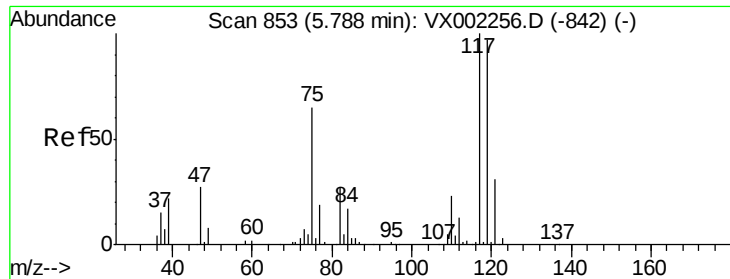
Delta R.T. -0.14 min

Lab File: VX002525.D

Acq: 13 Jun 2018 23:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 14773 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 10.6  | 18.1  | 54.4# |
| 77       | 0.3   | 24.3  | 36.5# |

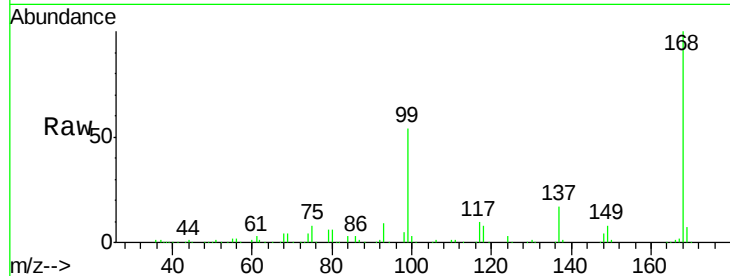




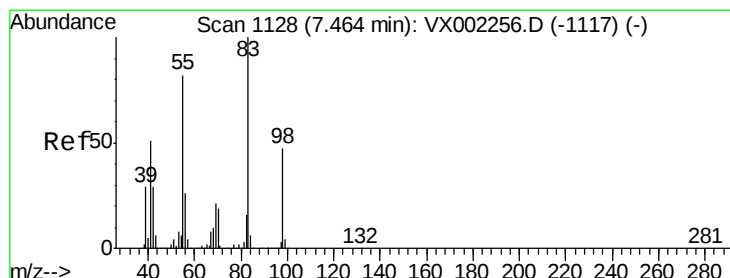
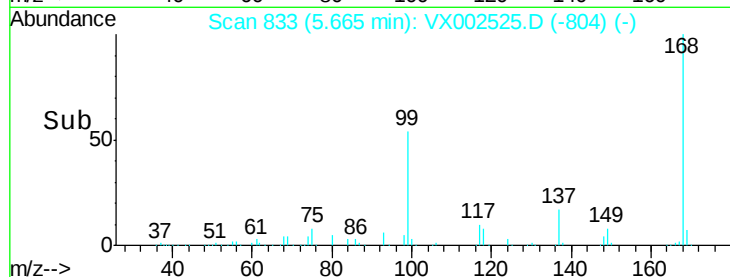
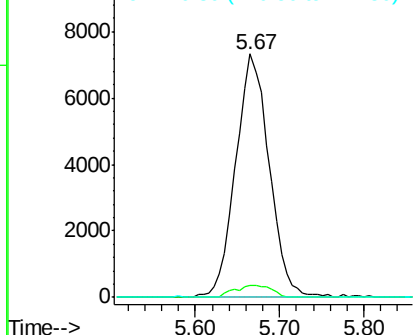
#38  
Carbon Tetrachloride  
Concen: 6.06 ug/l  
RT: 5.67 min Scan# 833  
Delta R.T. -0.12 min  
Lab File: VX002525.D  
Acq: 13 Jun 2018 23:35

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:117 Resp: 19771  
Ion Ratio Lower Upper  
117 100  
119 4.7 77.4 116.0#  
121 0.0 24.4 36.6#

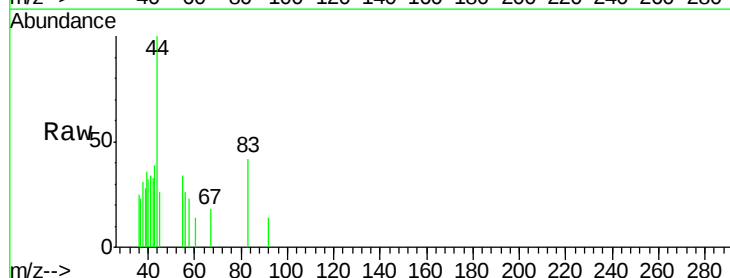


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

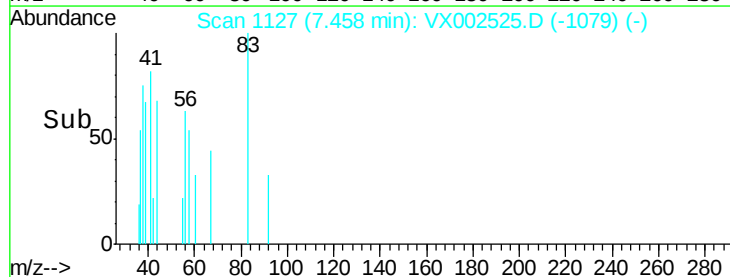
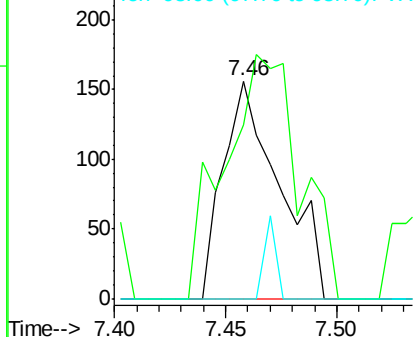


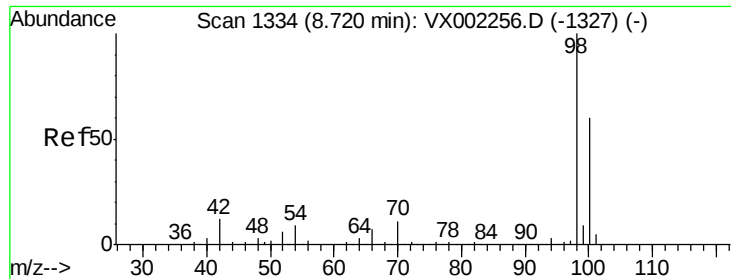
#39  
Methylcyclohexane  
Concen: 0.33 ug/l  
RT: 7.46 min Scan# 1127  
Delta R.T. -0.01 min  
Lab File: VX002525.D  
Acq: 13 Jun 2018 23:35

Tgt Ion: 83 Resp: 275  
Ion Ratio Lower Upper  
83 100  
55 80.1 65.4 98.0  
98 0.0 37.4 56.0#



Abundance Ion 83.00 (82.70 to 83.70): VX0  
Ion 55.00 (54.70 to 55.70): VX0  
Ion 98.00 (97.70 to 98.70): VX0

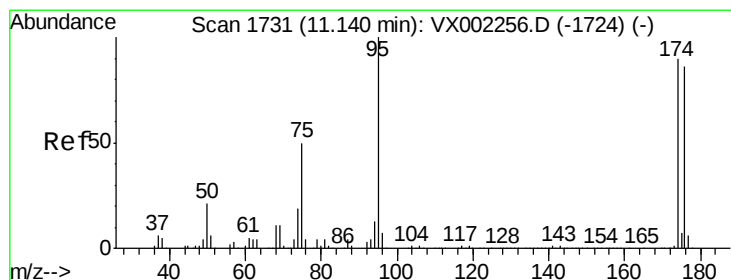
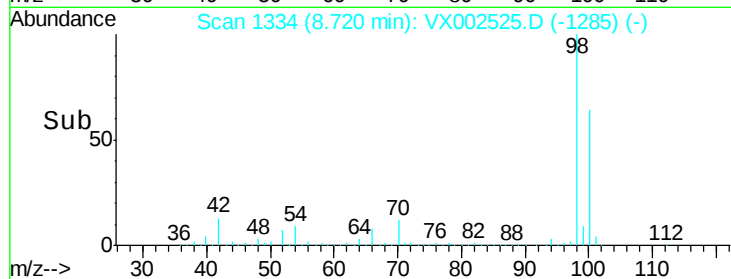
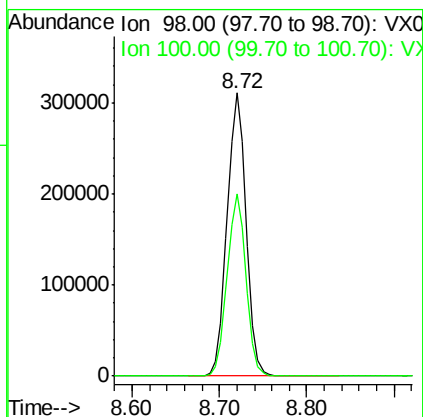
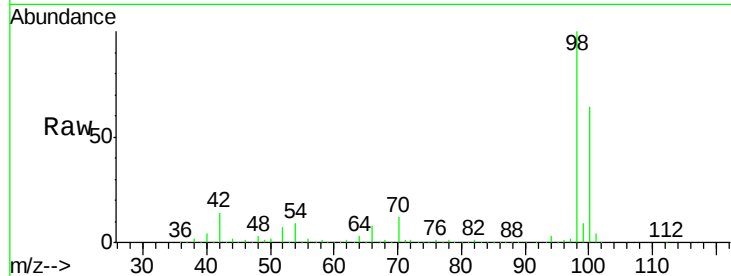




#50  
Toluene-d8  
Concen: 52.40 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. -0.00 min  
Lab File: VX002525.D  
Acq: 13 Jun 2018 23:35

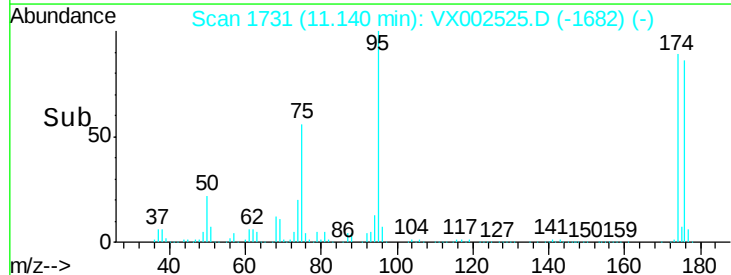
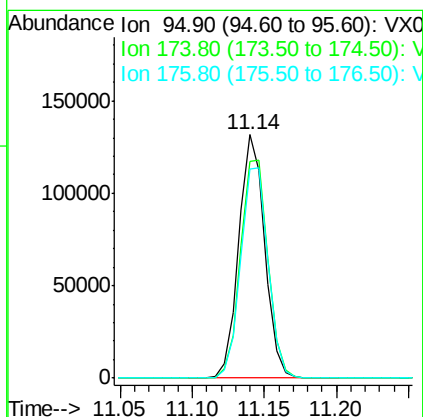
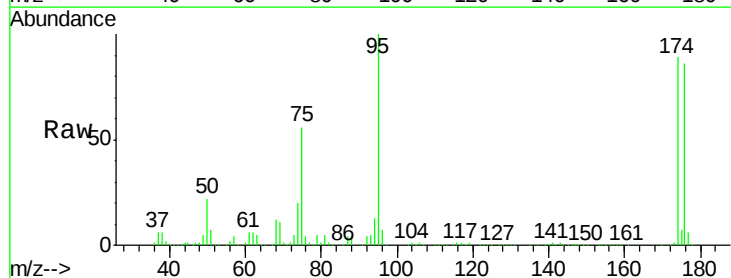
Instrument :  
MSVOA\_X  
ClientSampleId :

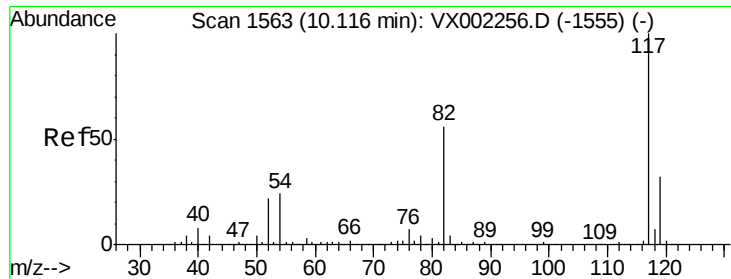
Tot Ion: 98 Resp: 468641  
Ion Ratio Lower Upper  
98 100  
100 63.7 50.9 76.3



#62  
4-Bromofluorobenzene  
Concen: 47.61 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. -0.00 min  
Lab File: VX002525.D  
Acq: 13 Jun 2018 23:35

Tgt Ion: 95 Resp: 164172  
Ion Ratio Lower Upper  
95 100  
174 95.1 0.0 187.4  
176 91.3 0.0 181.0

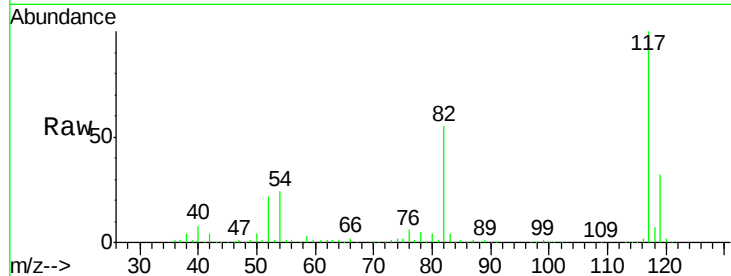




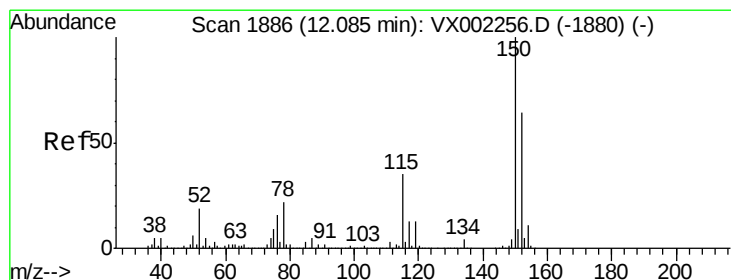
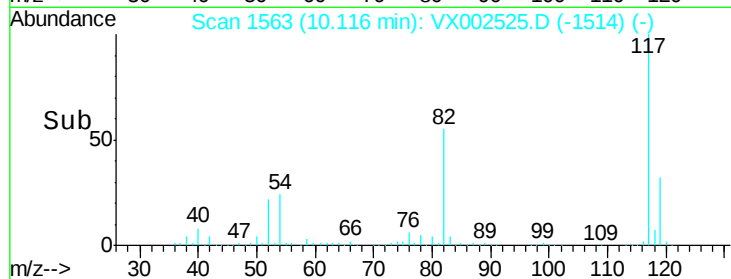
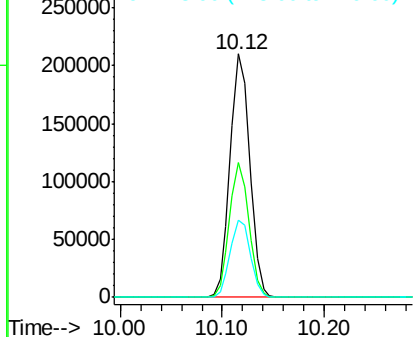
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.00 min  
Lab File: VX002525.D  
Acq: 13 Jun 2018 23:35

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:117 Resp: 281188  
Ion Ratio Lower Upper  
117 100  
82 55.3 45.0 67.4  
119 31.9 25.8 38.6

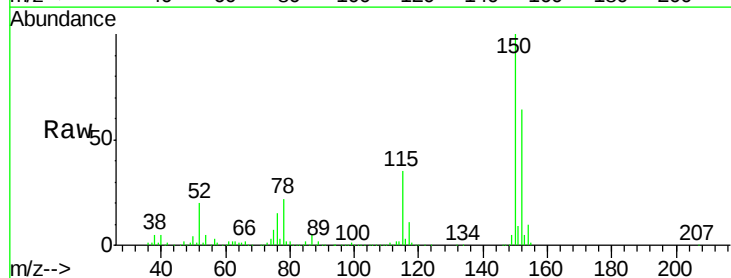


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

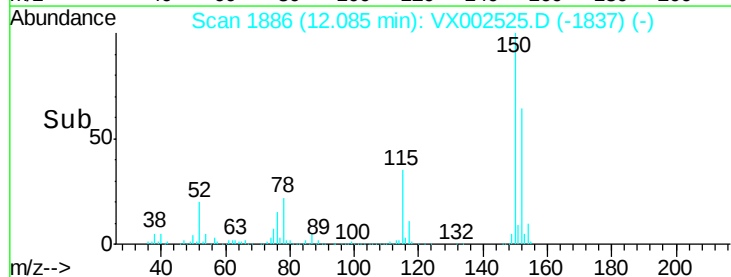
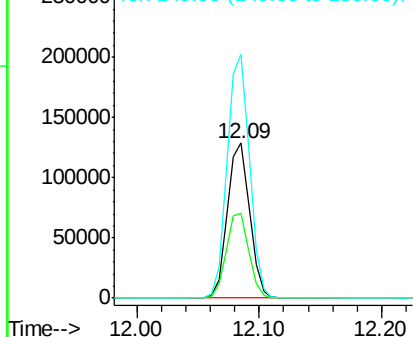


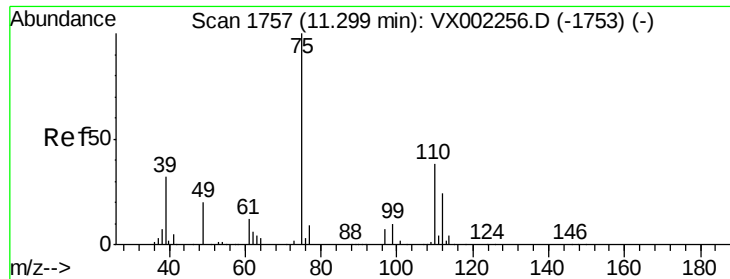
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. -0.00 min  
Lab File: VX002525.D  
Acq: 13 Jun 2018 23:35

Tgt Ion:152 Resp: 160489  
Ion Ratio Lower Upper  
152 100  
115 55.4 40.1 120.2  
150 157.9 0.0 347.2



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

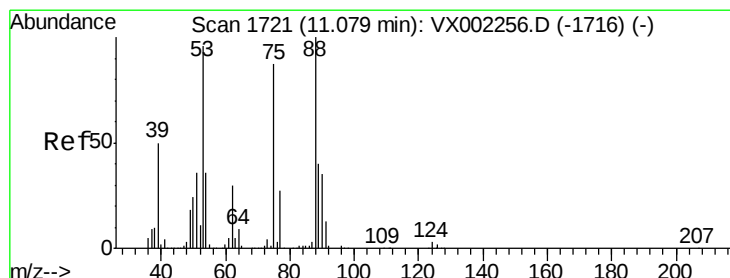
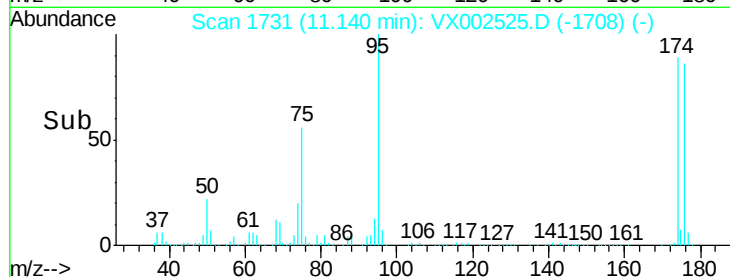
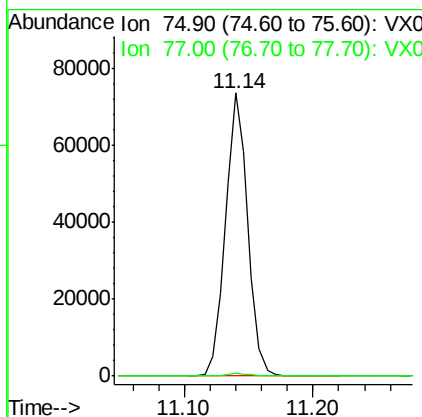
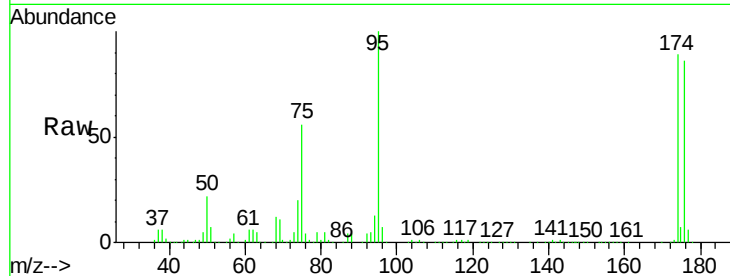




#76  
 1,2,3-Trichloropropane  
 Concen: 25.41 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. -0.16 min  
 Lab File: VX002525.D  
 Acq: 13 Jun 2018 23:35

Instrument :  
 MSVOA\_X  
 ClientSampled :

Tot Ion: 75 Resp: 89479  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 22.8 68.3#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 89.07 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. 0.06 min  
 Lab File: VX002525.D  
 Acq: 13 Jun 2018 23:35

Tgt Ion: 75 Resp: 89479  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 86.8 130.2#  
 89 0.0 38.2 57.2#

