

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF010319\  
 Data File : VF061265.D  
 Acq On : 3 Jan 2019 15:17  
 Operator : VA/AP  
 Sample : VSTDIC020  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

Quant Time: Jan 04 02:43:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F010319S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 04 02:39:51 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.87  | 168  | 212518   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.59  | 114  | 368321   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.78  | 117  | 347480   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.55 | 152  | 165461   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 4.85   | 65  | 52968    | 19.42 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 38.84% |      |
| 35) Dibromofluoromethane    | 4.12   | 113 | 58617    | 19.92 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 39.84% |      |
| 50) Toluene-d8              | 7.56   | 98  | 170631   | 20.34 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 40.68% |      |
| 62) 4-Bromofluorobenzene    | 11.41  | 95  | 80806    | 21.01 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 42.02% |      |

| Target Compounds              |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.96 | 85  | 80823  | 17.518  | ug/l   | 97     |
| 3) Chloromethane              | 1.10 | 50  | 63398  | 22.981  | ug/l   | 97     |
| 4) Vinyl Chloride             | 1.14 | 62  | 53455  | 20.949  | ug/l   | 100    |
| 5) Bromomethane               | 1.32 | 94  | 33594  | 19.050  | ug/l   | 100    |
| 6) Chloroethane               | 1.39 | 64  | 23932  | 20.475  | ug/l   | 89     |
| 7) Trichlorofluoromethane     | 1.49 | 101 | 96997  | 20.215  | ug/l   | 99     |
| 8) Diethyl Ether              | 1.63 | 74  | 13734  | 21.067  | ug/l   | 86     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.84 | 101 | 46323  | 18.470  | ug/l   | 95     |
| 10) Methyl Iodide             | 1.92 | 142 | 60238  | 15.312  | ug/l   | 96     |
| 11) Tert butyl alcohol        | 2.57 | 59  | 9803   | 89.991  | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 1.80 | 96  | 40329  | 21.451  | ug/l   | 97     |
| 13) Acrolein                  | 2.00 | 56  | 9512   | 116.407 | ug/l   | 97     |
| 14) Allyl chloride            | 2.09 | 41  | 53112  | 24.759  | ug/l   | 93     |
| 15) Acrylonitrile             | 2.94 | 53  | 26658  | 103.628 | ug/l   | 97     |
| 16) Acetone                   | 2.24 | 43  | 60128  | 115.763 | ug/l   | 99     |
| 17) Carbon Disulfide          | 1.82 | 76  | 122359 | 21.233  | ug/l # | 92     |
| 18) Methyl Acetate            | 2.34 | 43  | 21284  | 18.838  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 2.43 | 73  | 83959  | 20.436  | ug/l   | 98     |
| 20) Methylene Chloride        | 2.18 | 84  | 15304  | 7.388   | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 2.31 | 96  | 35665  | 17.443  | ug/l   | 94     |
| 22) Diisopropyl ether         | 2.80 | 45  | 136427 | 20.770  | ug/l   | 98     |
| 23) Vinyl Acetate             | 3.19 | 43  | 326492 | 108.914 | ug/l   | 96     |
| 24) 1,1-Dichloroethane        | 2.87 | 63  | 80498  | 20.613  | ug/l   | 99     |
| 25) 2-Butanone                | 4.33 | 43  | 105768 | 119.697 | ug/l   | 92     |
| 26) 2,2-Dichloropropane       | 3.59 | 77  | 48265  | 21.393  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 3.47 | 96  | 63831  | 20.638  | ug/l   | 92     |
| 28) Bromochloromethane        | 3.72 | 49  | 42150  | 21.746  | ug/l   | 91     |
| 29) Tetrahydrofuran           | 4.09 | 42  | 35997  | 99.866  | ug/l   | 97     |
| 30) Chloroform                | 3.86 | 83  | 117382 | 20.312  | ug/l   | 96     |
| 31) Cyclohexane               | 3.69 | 56  | 51170  | 12.509  | ug/l   | 93     |
| 32) 1,1,1-Trichloroethane     | 4.10 | 97  | 66212  | 18.358  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 4.28 | 75  | 91993  | 20.650  | ug/l # | 93     |
| 37) Ethyl Acetate             | 4.13 | 43  | 34611  | 19.243  | ug/l # | 53     |
| 38) Carbon Tetrachloride      | 3.99 | 117 | 69671  | 20.278  | ug/l   | 97     |

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 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

Quant Time: Jan 04 02:43:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F010319S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 04 02:39:51 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.46  | 83   | 92202    | 22.527  | ug/l   | 94       |
| 40) Benzene                    | 4.64  | 78   | 199992   | 20.736  | ug/l   | 100      |
| 41) Methacrylonitrile          | 4.75  | 41   | 20299    | 22.023  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 4.94  | 62   | 66484    | 18.756  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 6.97  | 43   | 43559    | 20.283  | ug/l # | 99       |
| 44) Trichloroethene            | 5.51  | 130  | 66229    | 22.107  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 6.24  | 63   | 48360    | 18.540  | ug/l   | 99       |
| 46) Dibromomethane             | 6.09  | 93   | 33758    | 20.261  | ug/l   | 89       |
| 47) Bromodichloromethane       | 6.38  | 83   | 83893    | 19.452  | ug/l   | 97       |
| 48) Methyl methacrylate        | 6.72  | 41   | 28940    | 19.314  | ug/l   | 95       |
| 49) 1,4-Dioxane                | 6.71  | 88   | 4331     | 405.450 | ug/l # | 84       |
| 51) 4-Methyl-2-Pentanone       | 8.26  | 43   | 162699   | 110.785 | ug/l   | 100      |
| 52) Toluene                    | 7.63  | 92   | 136022   | 21.336  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 8.28  | 75   | 72053    | 20.499  | ug/l   | 90       |
| 54) cis-1,3-Dichloropropene    | 7.30  | 75   | 89030    | 20.147  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 8.49  | 97   | 38526    | 20.340  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 8.62  | 69   | 41221    | 20.151  | ug/l # | 89       |
| 57) 1,3-Dichloropropane        | 8.86  | 76   | 68489    | 19.945  | ug/l   | 95       |
| 58) 2-Chloroethyl Vinyl ether  | 7.30  | 63   | 22541    | 60.448  | ug/l   | 98       |
| 59) 2-Hexanone                 | 9.49  | 43   | 124571   | 117.992 | ug/l   | 98       |
| 60) Dibromochloromethane       | 8.72  | 129  | 52122    | 19.494  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 8.99  | 107  | 40840    | 20.272  | ug/l   | 95       |
| 64) Tetrachloroethene          | 8.16  | 164  | 54327    | 20.124  | ug/l   | 99       |
| 65) Chlorobenzene              | 9.80  | 112  | 145061   | 19.978  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.94  | 131  | 56830    | 19.145  | ug/l   | 98       |
| 67) Ethyl Benzene              | 9.91  | 91   | 254396   | 19.126  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.13 | 106  | 192977   | 41.502  | ug/l   | 96       |
| 69) o-Xylene                   | 10.71 | 106  | 106155   | 20.401  | ug/l   | 97       |
| 70) Styrene                    | 10.79 | 104  | 143508   | 19.952  | ug/l   | 99       |
| 71) Bromoform                  | 10.77 | 173  | 27930    | 20.426  | ug/l # | 97       |
| 73) Isopropylbenzene           | 11.13 | 105  | 307915   | 21.577  | ug/l   | 98       |
| 74) N-amyl acetate             | 11.38 | 43   | 71873    | 22.548  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.70 | 83   | 51016    | 21.783  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 11.80 | 75   | 37516    | 21.508  | ug/l   | 89       |
| 77) Bromobenzene               | 11.49 | 156  | 63153    | 20.681  | ug/l   | 94       |
| 78) n-propylbenzene            | 11.59 | 91   | 369747   | 22.048  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 11.72 | 91   | 207261   | 21.282  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene     | 11.83 | 105  | 245399   | 21.038  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-buten | 11.87 | 75   | 21382    | 28.076  | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 11.90 | 91   | 214577   | 21.202  | ug/l   | 95       |
| 83) tert-Butylbenzene          | 12.13 | 119  | 264645   | 22.067  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 12.20 | 105  | 242367   | 20.833  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 12.30 | 105  | 344936   | 21.868  | ug/l   | 96       |
| 86) p-Isopropyltoluene         | 12.46 | 119  | 295256   | 22.510  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.48 | 146  | 121798   | 21.049  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 12.57 | 146  | 114032   | 20.106  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.85 | 91   | 298200   | 22.012  | ug/l   | 96       |
| 90) Hexachloroethane           | 12.92 | 117  | 68097    | 21.034  | ug/l   | 78       |
| 91) 1,2-Dichlorobenzene        | 12.94 | 146  | 115591   | 21.219  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.64 | 75   | 8005     | 18.819  | ug/l   | 92       |

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Sample : VSTDICC020  
Misc : 5.00g/5mL/MSVOA-F/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICC020

Quant Time: Jan 04 02:43:21 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F010319S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 04 02:39:51 2019  
Response via : Initial Calibration

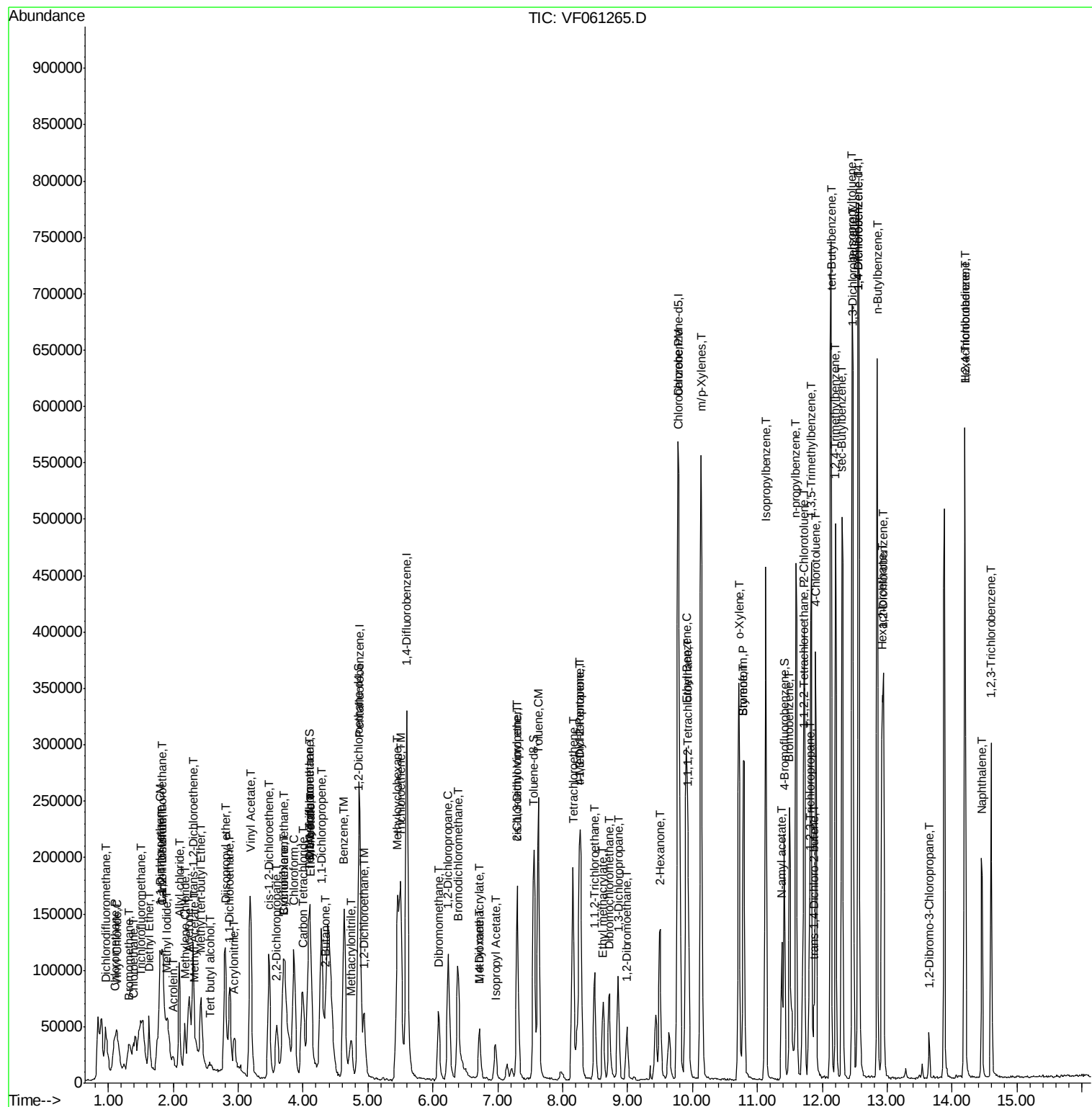
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.20 | 180  | 81494    | 20.992 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 14.20 | 225  | 52401    | 21.202 | ug/l  | 94       |
| 95) Naphthalene            | 14.45 | 128  | 147493   | 21.027 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 14.60 | 180  | 74448    | 20.963 | ug/l  | 95       |

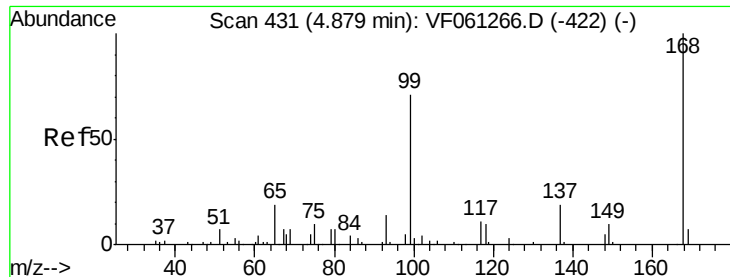
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF010319\  
 Data File : VF061265.D  
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 Operator : VA/AP  
 Sample : VSTDIC020  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
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 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

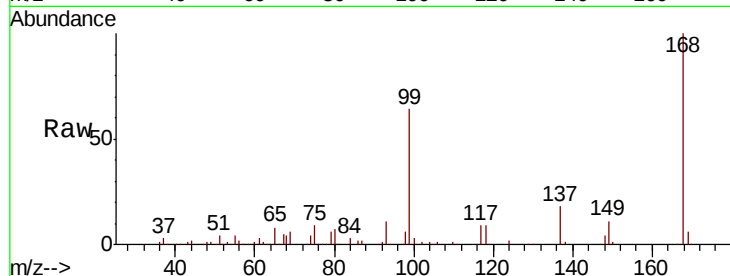
VSTDIC020

Tgt Ion:168 Resp: 212518

Ion Ratio Lower Upper

168 100

99 64.2 57.0 85.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

80000

60000

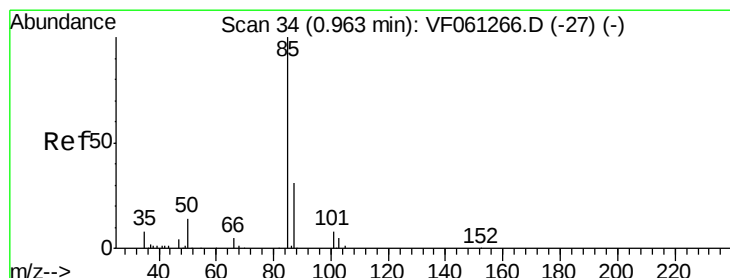
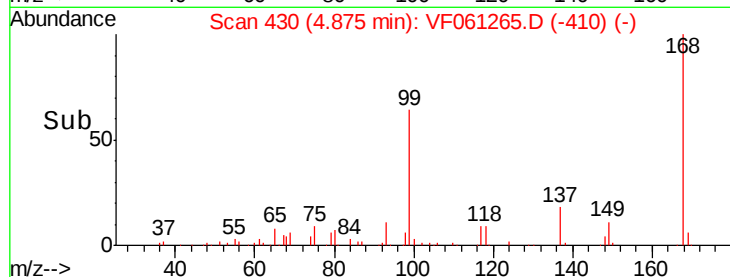
40000

20000

0

Time-->

4.70 4.80 4.90 5.00



#2

Dichlorodifluoromethane

Concen: 17.518 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF061265.D

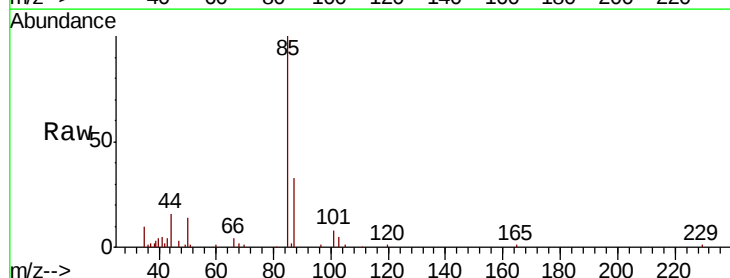
Acq: 3 Jan 2019 15:17

Tgt Ion: 85 Resp: 80823

Ion Ratio Lower Upper

85 100

87 32.6 15.6 46.8



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

25000

20000

15000

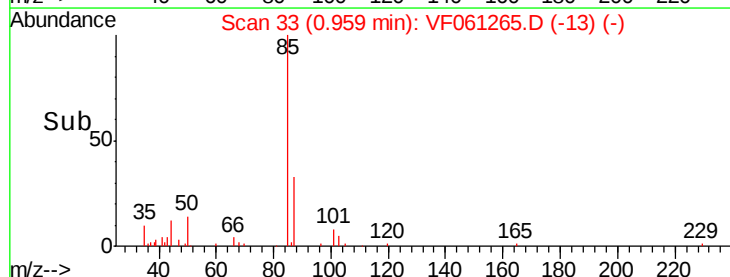
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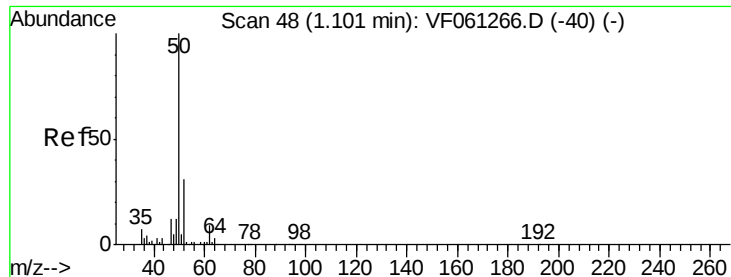
5000

0

Time-->

0.90 1.00 1.10





#3

Chloromethane

Concen: 22.981 ug/l

RT: 1.10 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

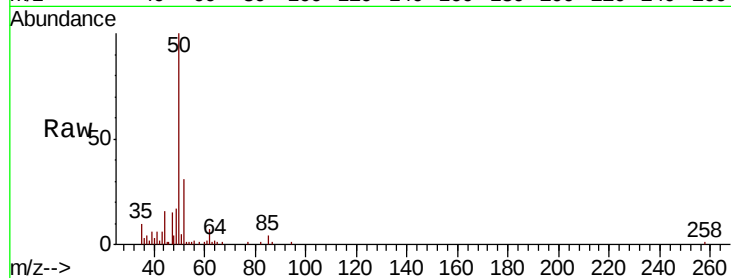
VSTDIC020

Tgt Ion: 50 Resp: 63398

Ion Ratio Lower Upper

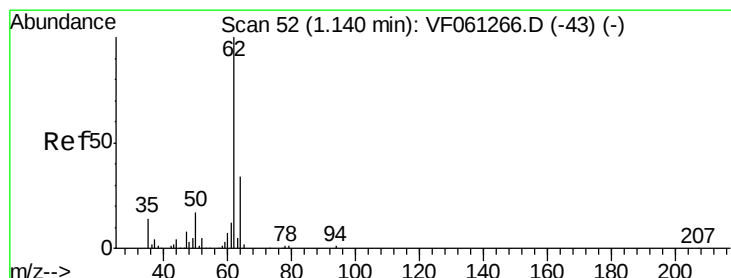
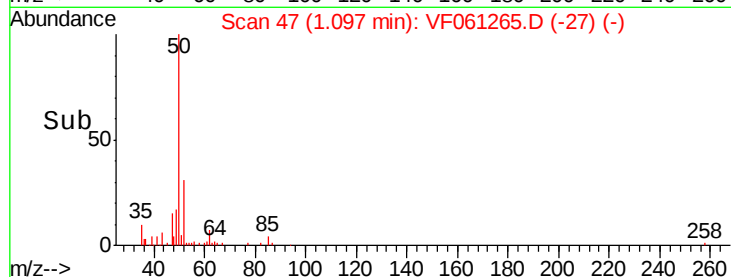
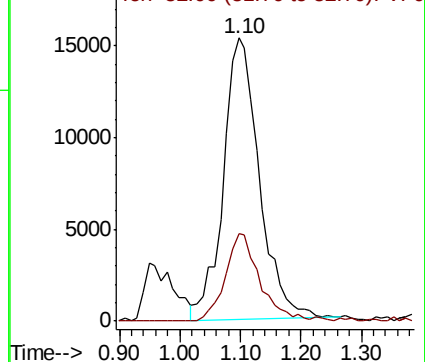
50 100

52 30.9 23.4 35.2



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 20.949 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.00 min

Lab File: VF061265.D

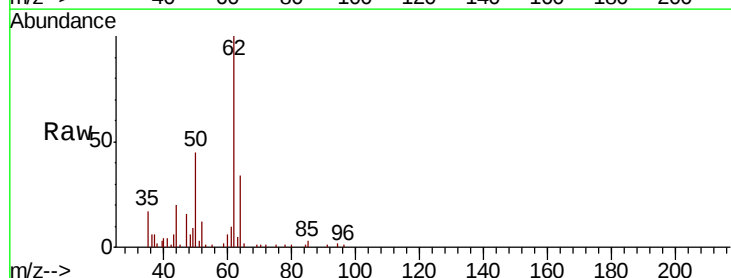
Acq: 3 Jan 2019 15:17

Tgt Ion: 62 Resp: 53455

Ion Ratio Lower Upper

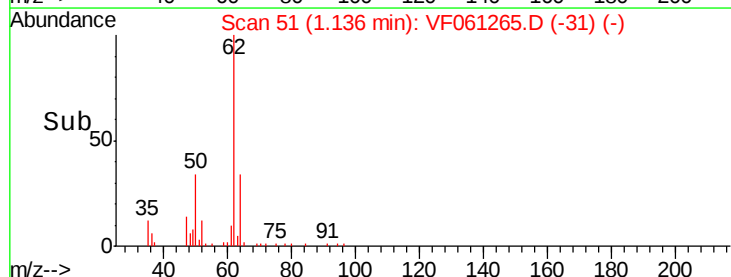
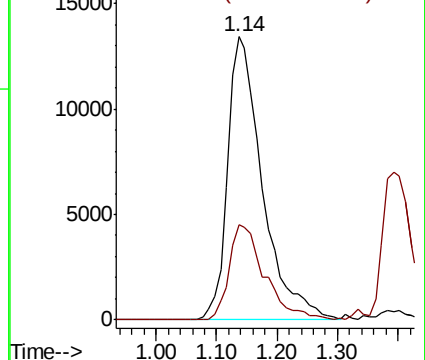
62 100

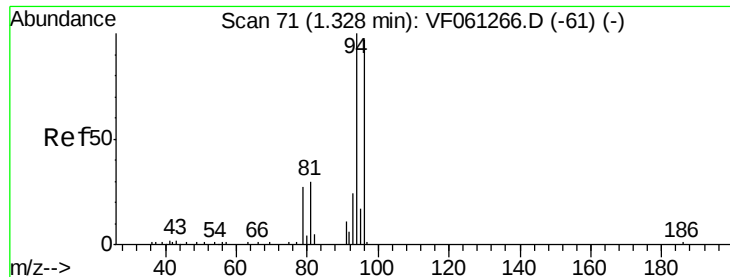
64 33.9 26.9 40.3



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 19.050 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

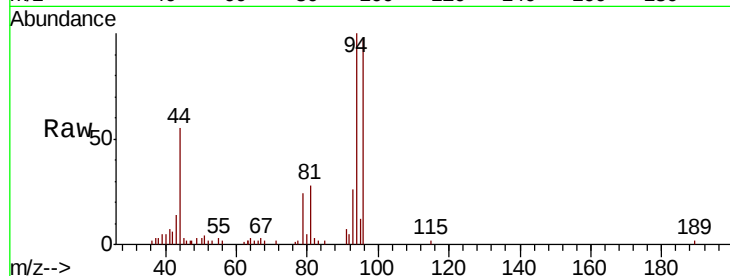
VSTDIC020

Tgt Ion: 94 Resp: 33594

Ion Ratio Lower Upper

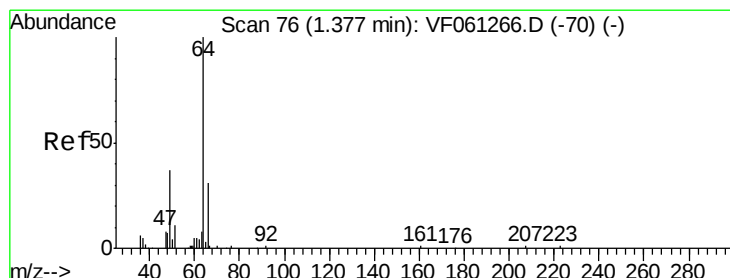
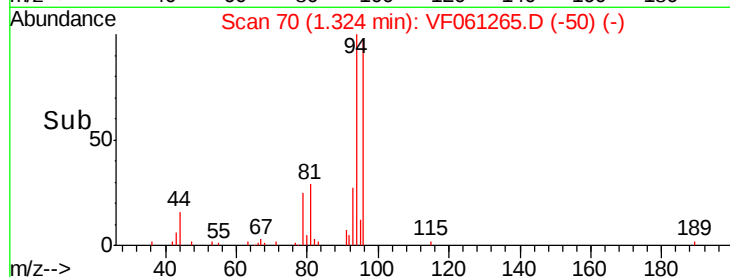
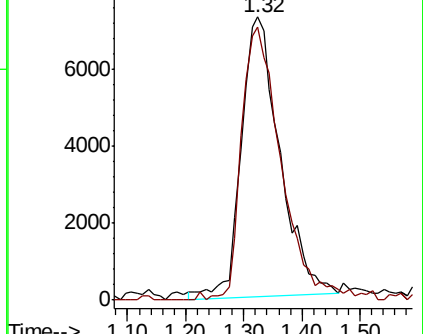
94 100

96 96.6 77.2 115.8



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 20.475 ug/l

RT: 1.39 min Scan# 77

Delta R.T. 0.02 min

Lab File: VF061265.D

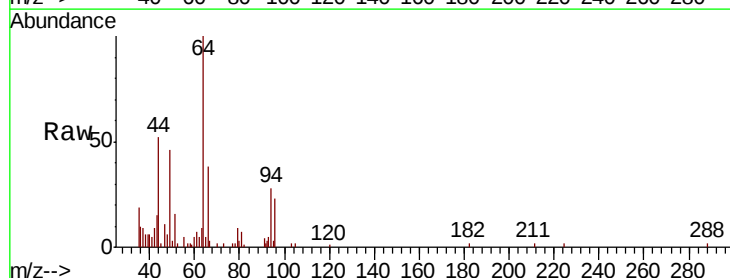
Acq: 3 Jan 2019 15:17

Tgt Ion: 64 Resp: 23932

Ion Ratio Lower Upper

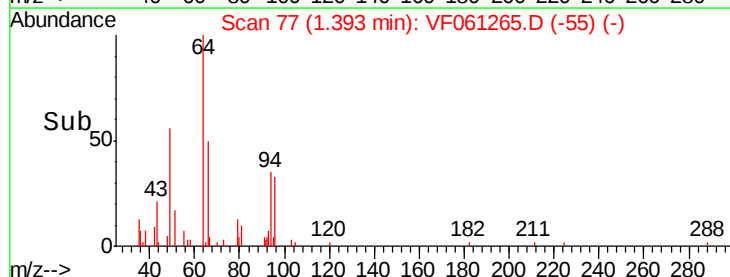
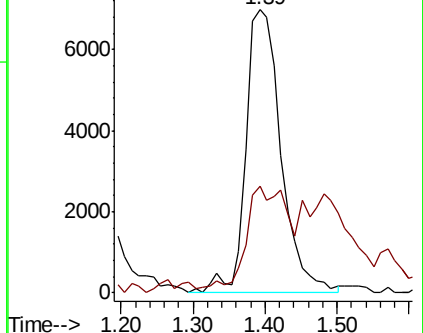
64 100

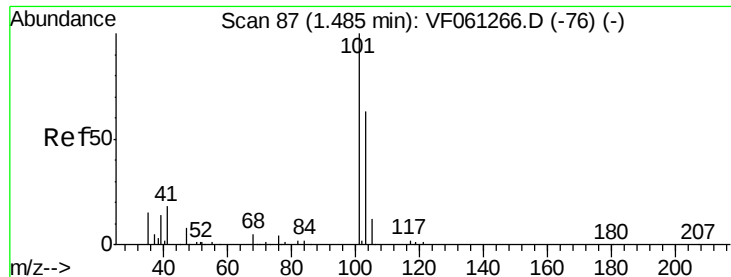
66 37.7 25.2 37.8



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



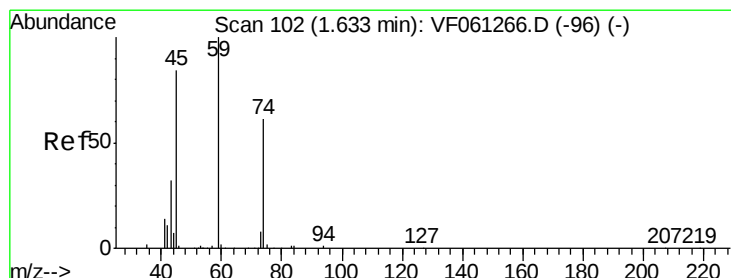
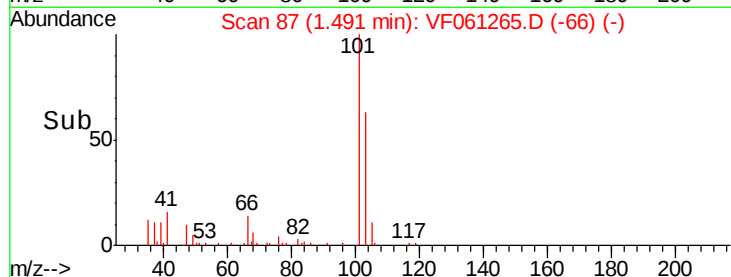
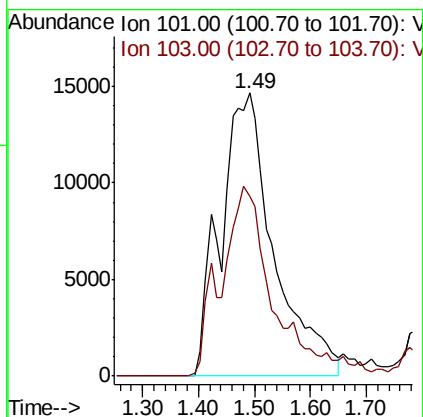
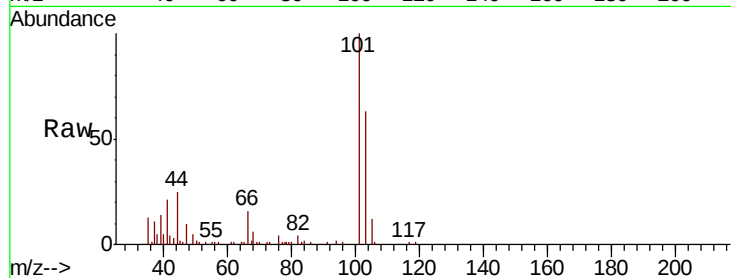


#7

Trichlorofluoromethane  
 Concen: 20.215 ug/l  
 RT: 1.49 min Scan# 87  
 Delta R.T. 0.01 min  
 Lab File: VF061265.D  
 Acq: 3 Jan 2019 15:17

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

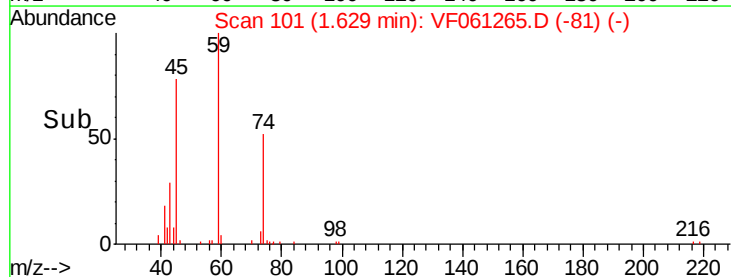
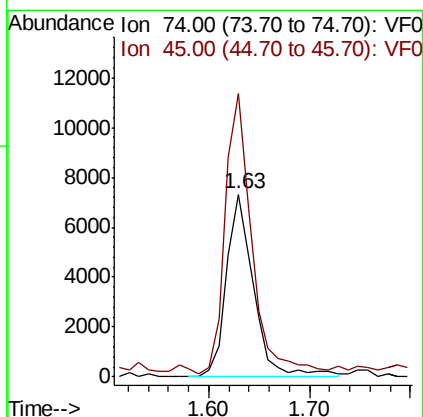
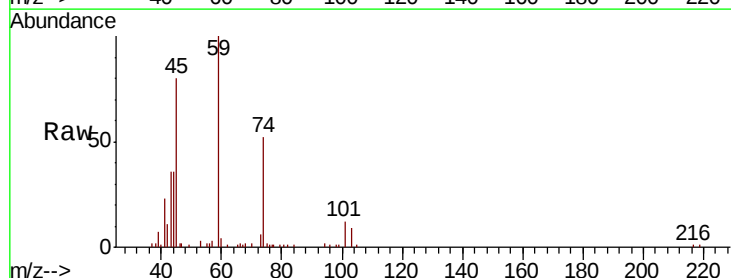
Tgt Ion:101 Resp: 96997  
 Ion Ratio Lower Upper  
 101 100  
 103 63.4 50.3 75.5

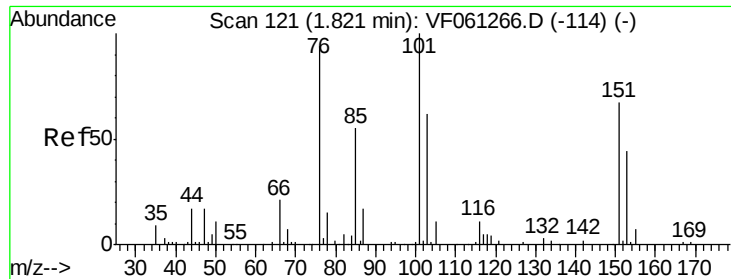


#8

Diethyl Ether  
 Concen: 21.067 ug/l  
 RT: 1.63 min Scan# 101  
 Delta R.T. -0.00 min  
 Lab File: VF061265.D  
 Acq: 3 Jan 2019 15:17

Tgt Ion: 74 Resp: 13734  
 Ion Ratio Lower Upper  
 74 100  
 45 155.0 69.0 207.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.470 ug/l

RT: 1.84 min Scan# 122

Delta R.T. 0.02 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

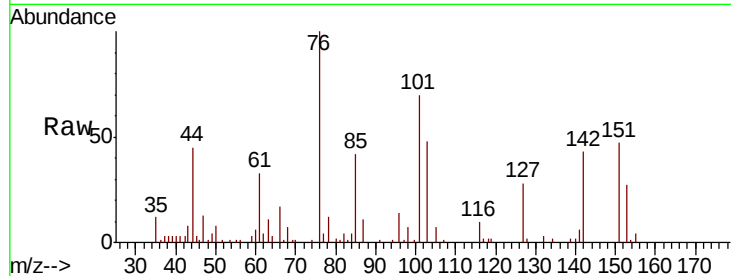
Tgt Ion:101 Resp: 46323

Ion Ratio Lower Upper

101 100

85 59.4 42.9 64.3

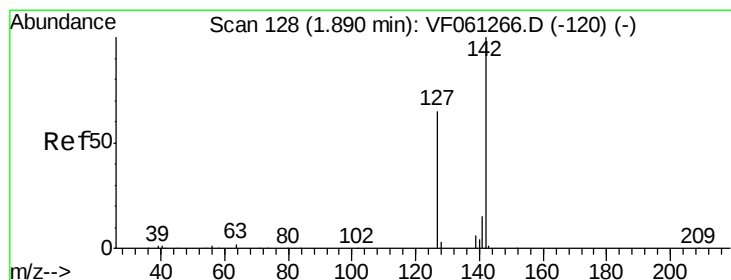
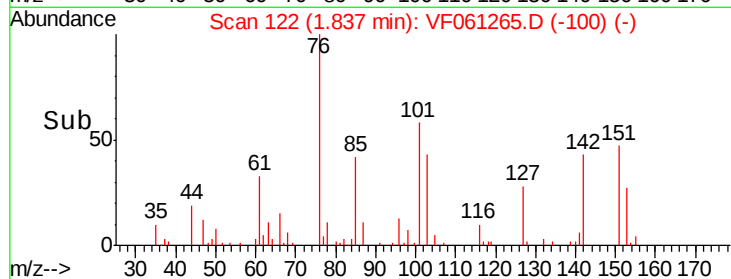
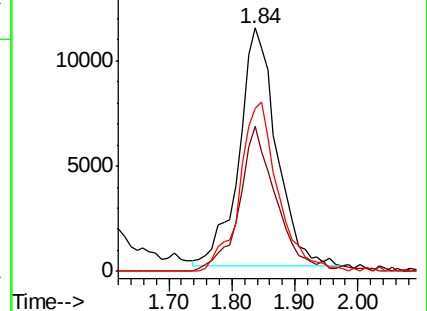
151 67.1 52.4 78.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 15.312 ug/l

RT: 1.92 min Scan# 130

Delta R.T. 0.03 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

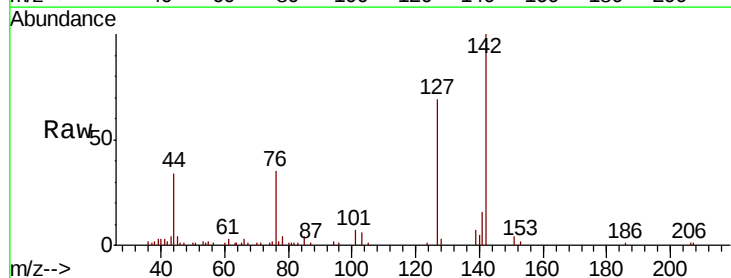
Tgt Ion:142 Resp: 60238

Ion Ratio Lower Upper

142 100

127 69.4 52.3 78.5

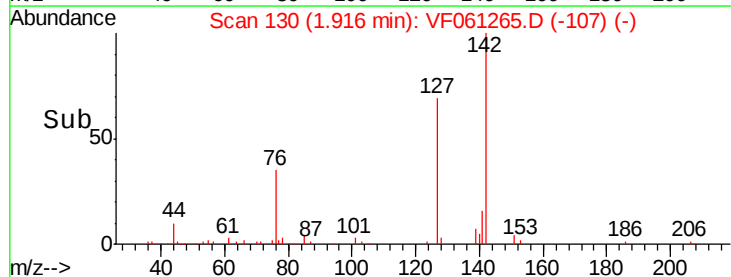
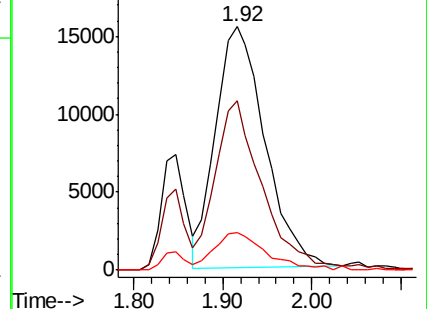
141 15.5 12.2 18.4

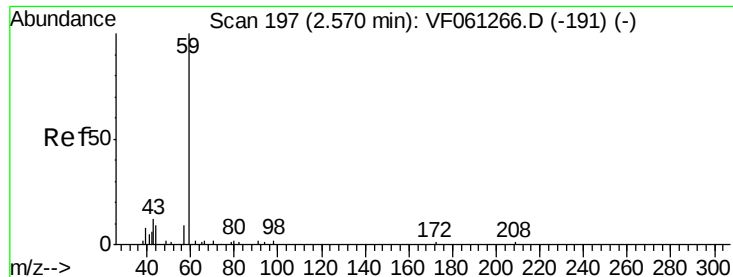


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

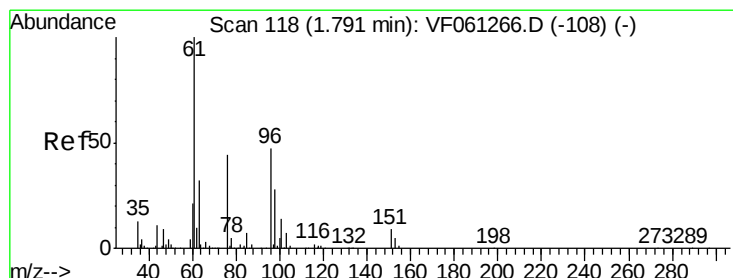
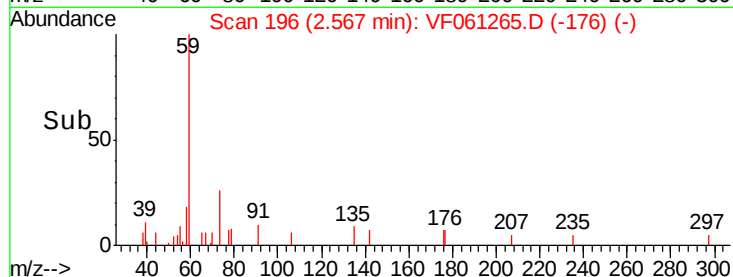
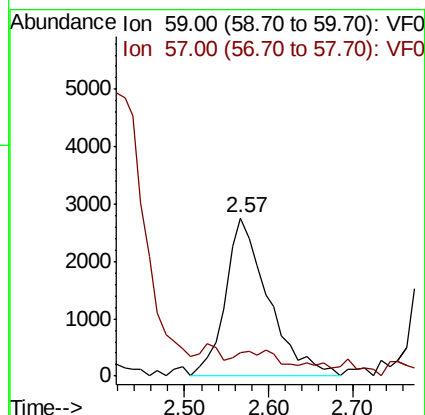
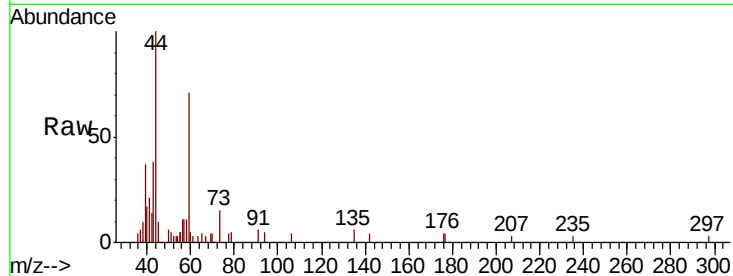




#11  
Tert butyl alcohol  
Concen: 89.991 ug/l  
RT: 2.57 min Scan# 196  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

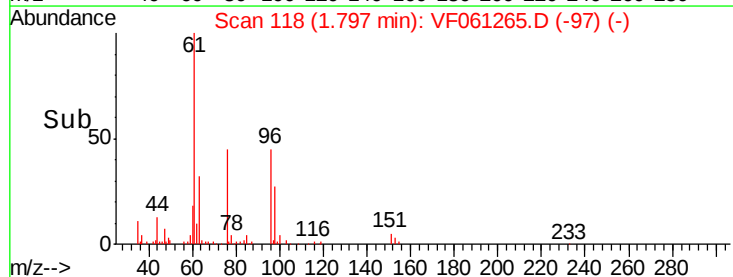
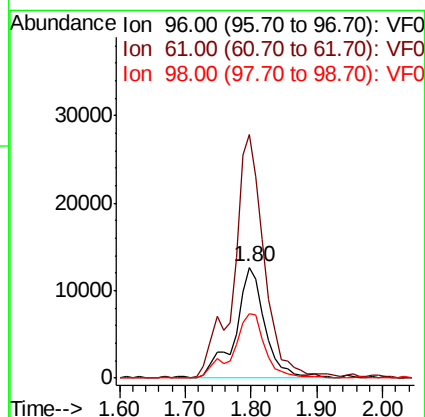
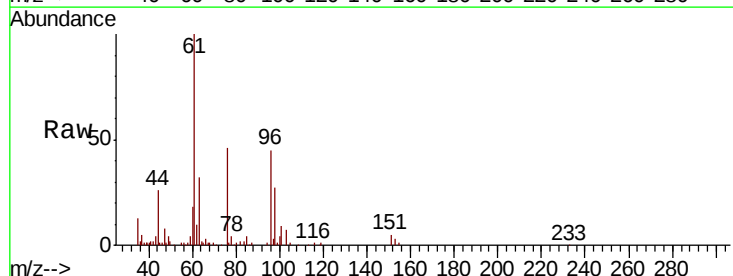
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

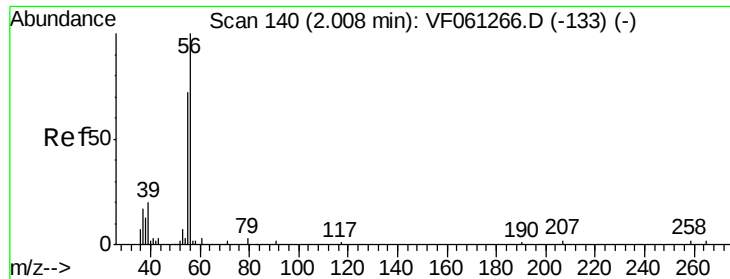
Tgt Ion: 59 Resp: 9803  
Ion Ratio Lower Upper  
59 100  
57 15.2 12.6 18.8



#12  
1,1-Dichloroethene  
Concen: 21.451 ug/l  
RT: 1.80 min Scan# 118  
Delta R.T. 0.01 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Tgt Ion: 96 Resp: 40329  
Ion Ratio Lower Upper  
96 100  
61 219.8 171.6 257.4  
98 58.6 48.6 72.8





#13

Acrolein

Concen: 116.407 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

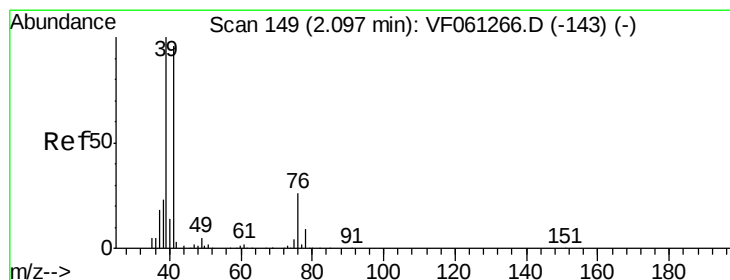
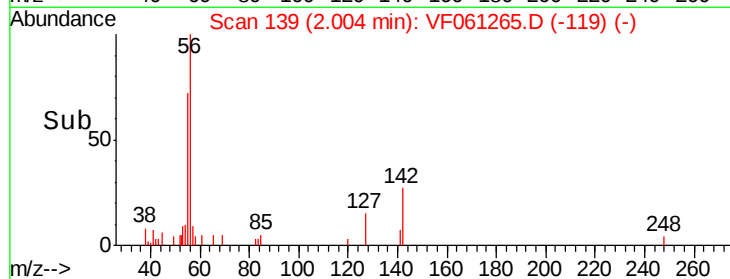
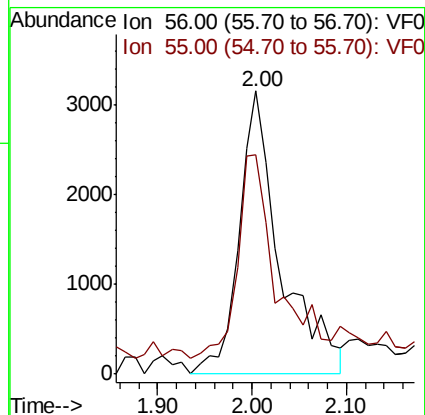
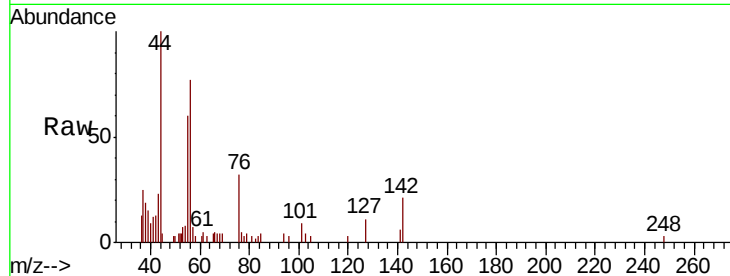
VSTDIC020

Tgt Ion: 56 Resp: 9512

Ion Ratio Lower Upper

56 100

55 77.3 59.7 89.5



#14

Allyl chloride

Concen: 24.759 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

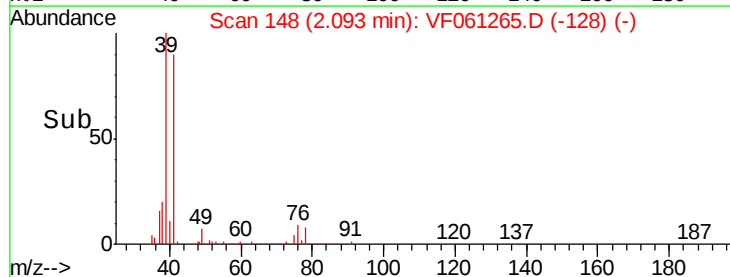
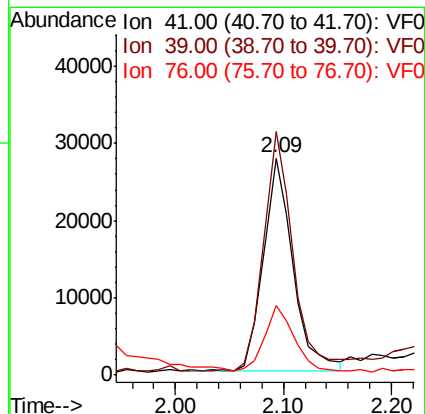
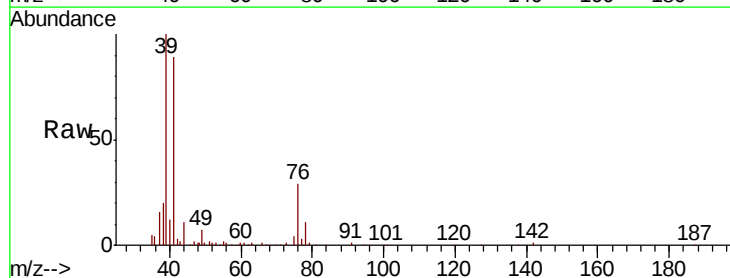
Tgt Ion: 41 Resp: 53112

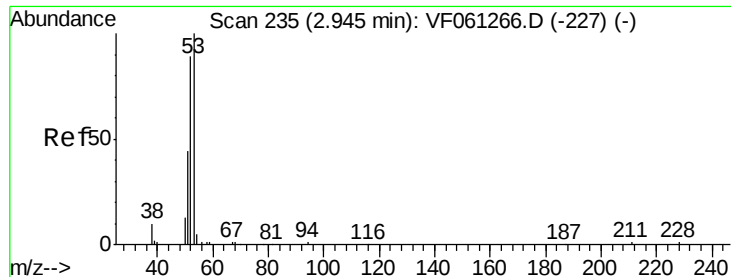
Ion Ratio Lower Upper

41 100

39 112.0 83.4 125.2

76 32.0 23.9 35.9





#15

Acrylonitrile

Concen: 103.628 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

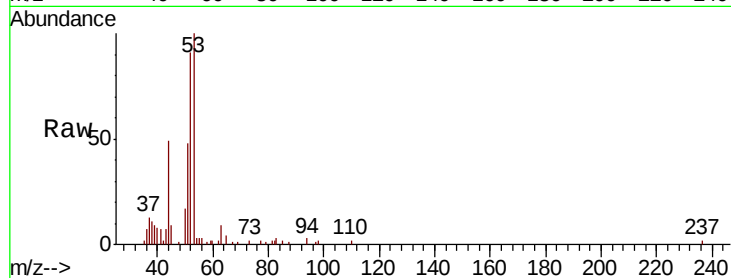
MSVOA\_F

ClientSampleId :

VSTDIC020

Tgt Ion: 53 Resp: 26658

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 53  | 100   |       |       |
| 52  | 90.9  | 71.3  | 106.9 |
| 51  | 48.3  | 36.2  | 54.4  |

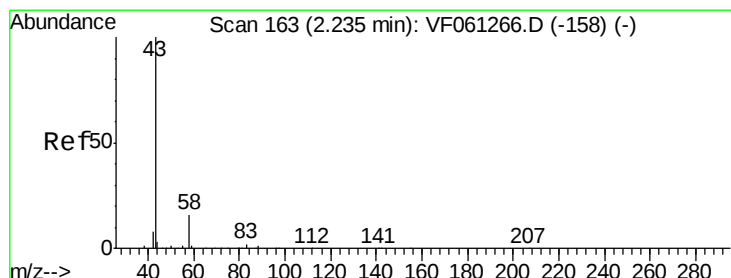
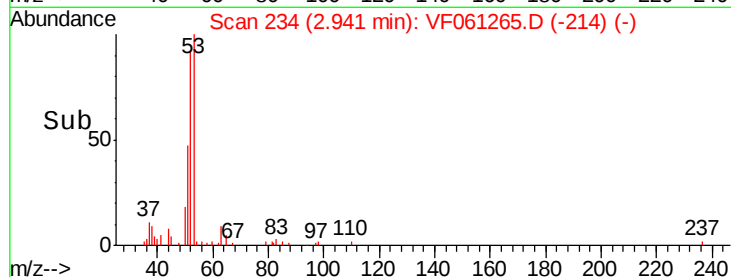
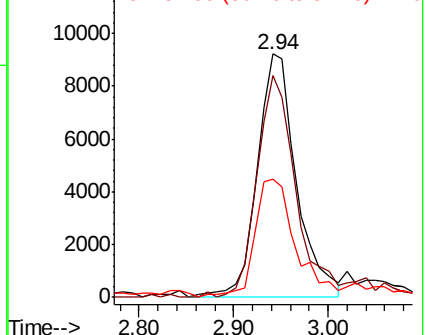


Abundance

Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 115.763 ug/l

RT: 2.24 min Scan# 163

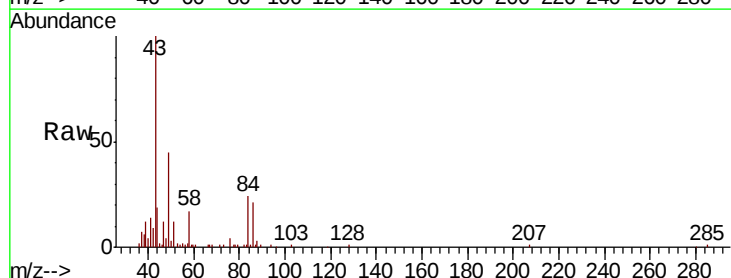
Delta R.T. 0.01 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Tgt Ion: 43 Resp: 60128

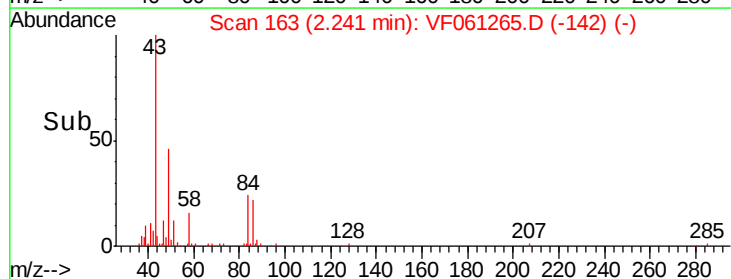
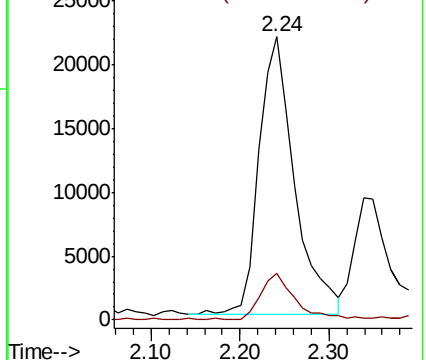
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 16.5  | 13.0  | 19.4  |

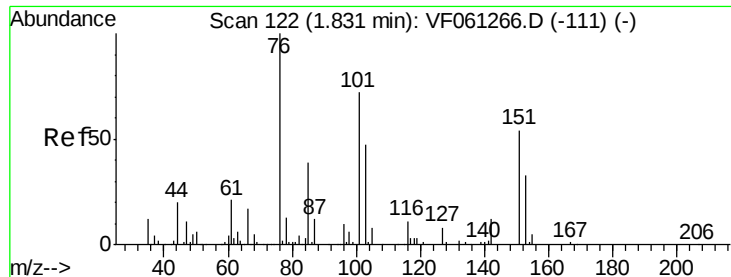


Abundance

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

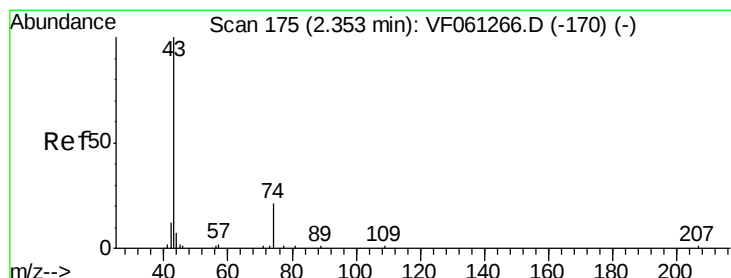
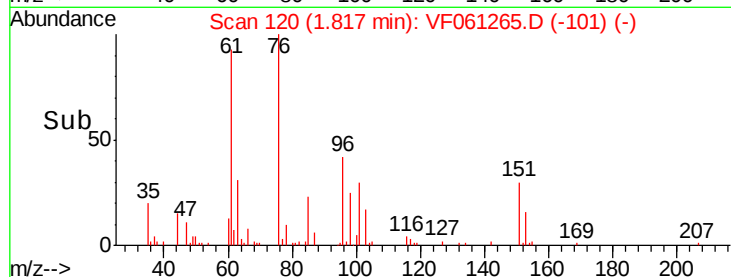
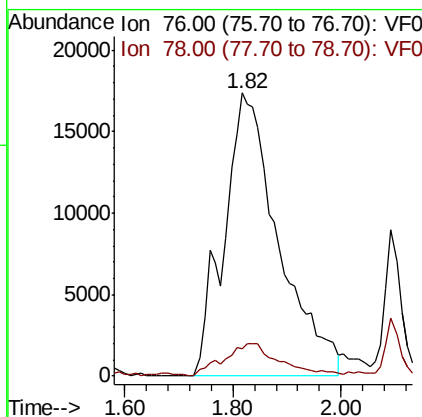
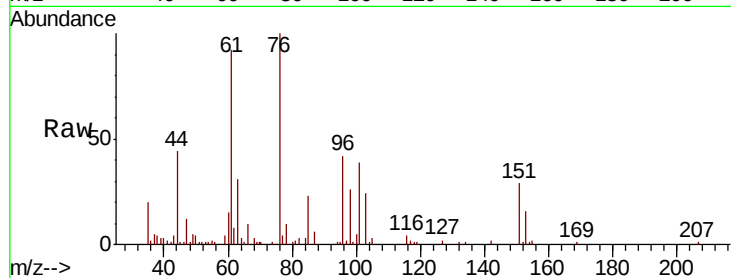




#17  
Carbon Disulfide  
Concen: 21.233 ug/l  
RT: 1.82 min Scan# 120  
Delta R.T. -0.01 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

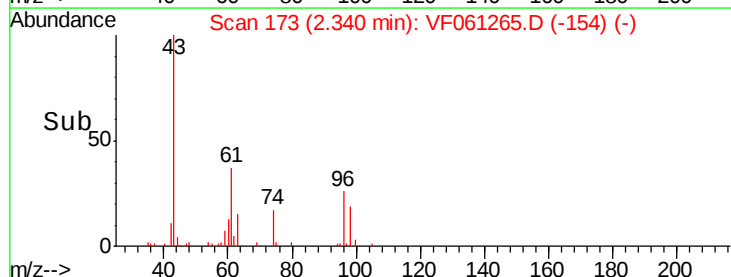
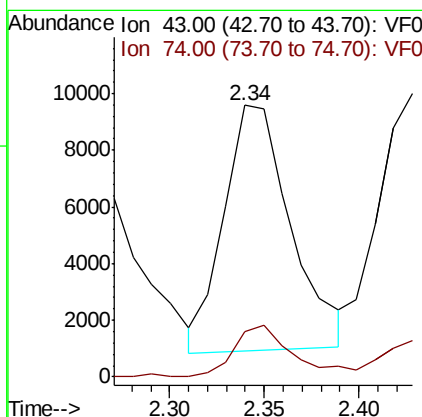
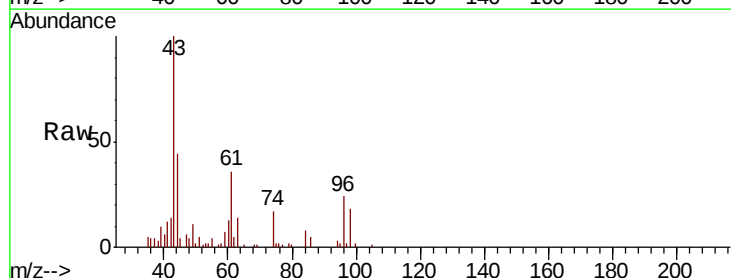
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

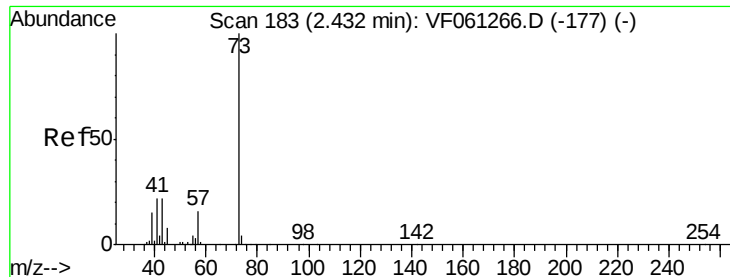
Tgt Ion: 76 Resp: 122359  
Ion Ratio Lower Upper  
76 100  
78 9.7 10.2 15.4#



#18  
Methyl Acetate  
Concen: 18.838 ug/l  
RT: 2.34 min Scan# 173  
Delta R.T. -0.01 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Tgt Ion: 43 Resp: 21284  
Ion Ratio Lower Upper  
43 100  
74 16.6 14.4 21.6



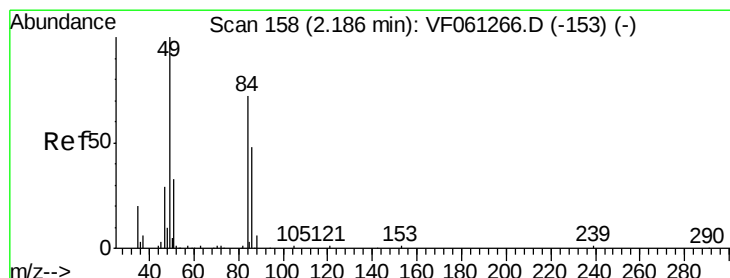
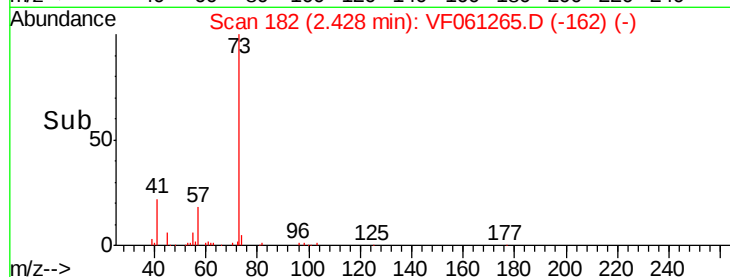
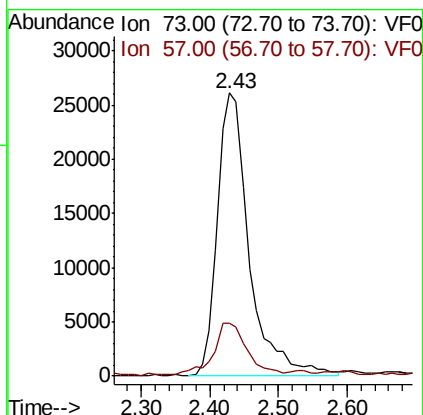
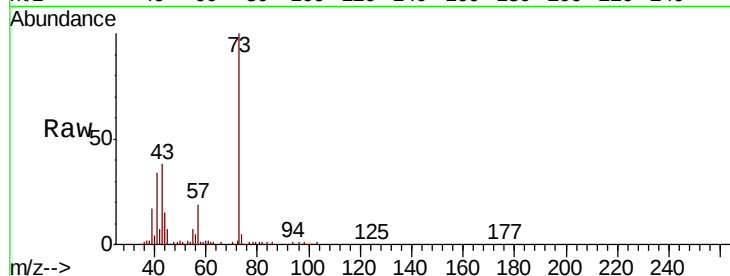


#19

Methyl tert-butyl Ether  
Concen: 20.436 ug/l  
RT: 2.43 min Scan# 182  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

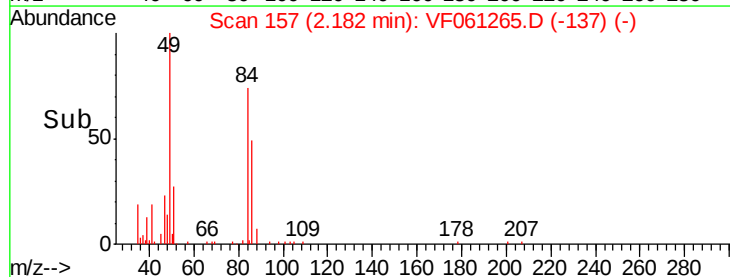
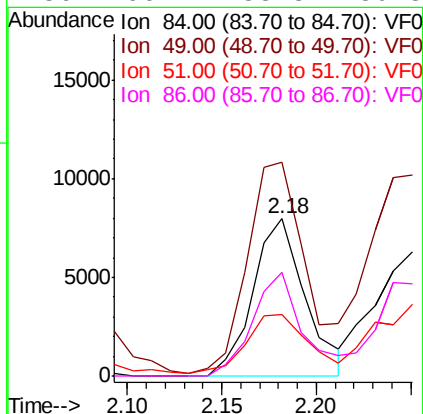
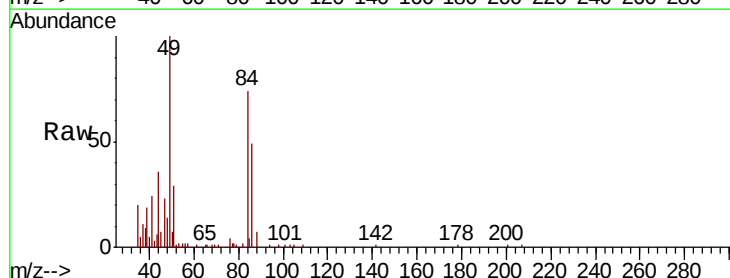
Tgt Ion: 73 Resp: 83959  
Ion Ratio Lower Upper  
73 100  
57 18.6 14.0 21.0

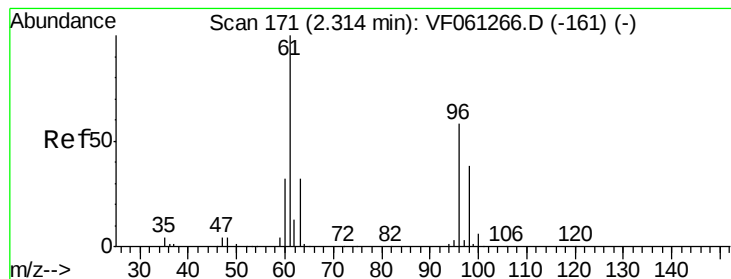


#20

Methylene Chloride  
Concen: 7.388 ug/l  
RT: 2.18 min Scan# 157  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Tgt Ion: 84 Resp: 15304  
Ion Ratio Lower Upper  
84 100  
49 136.0 112.9 169.3  
51 39.5 37.9 56.9  
86 66.2 53.8 80.8





#21

trans-1,2-Dichloroethene

Concen: 17.443 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

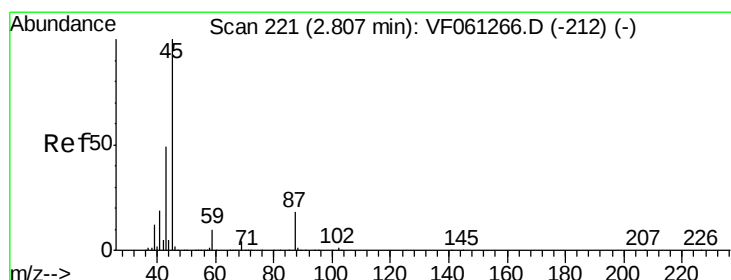
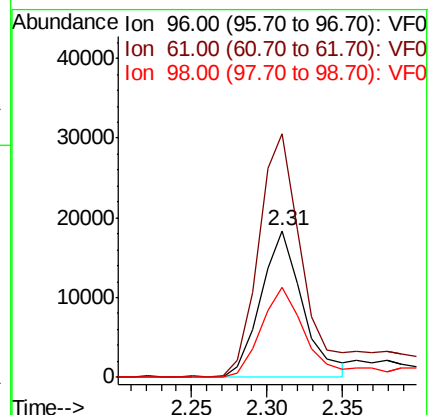
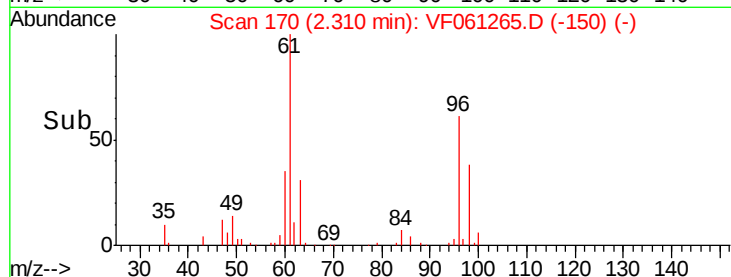
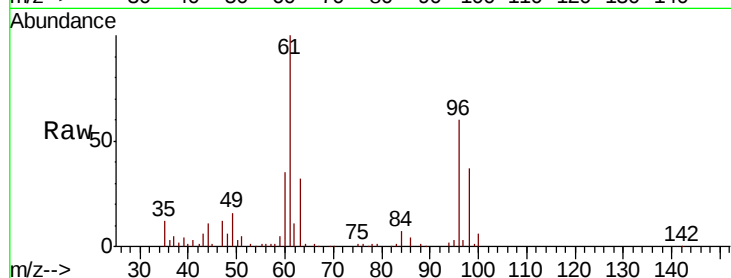
Tgt Ion: 96 Resp: 35665

Ion Ratio Lower Upper

96 100

61 165.8 139.3 208.9

98 61.6 52.6 78.8



#22

Diisopropyl ether

Concen: 20.770 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Tgt Ion: 45 Resp: 136427

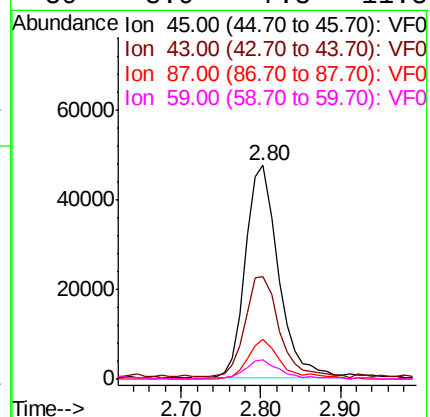
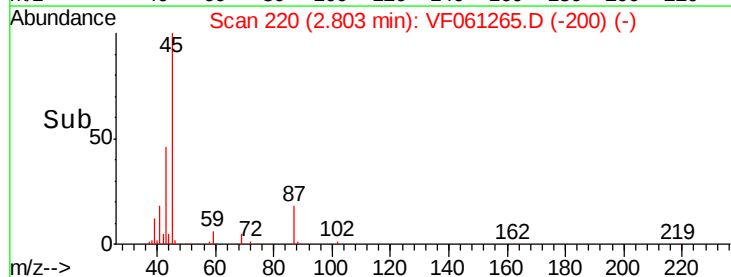
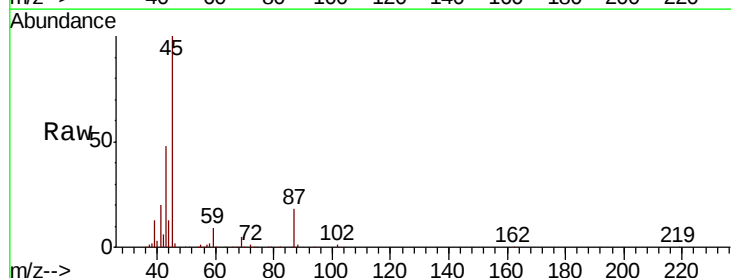
Ion Ratio Lower Upper

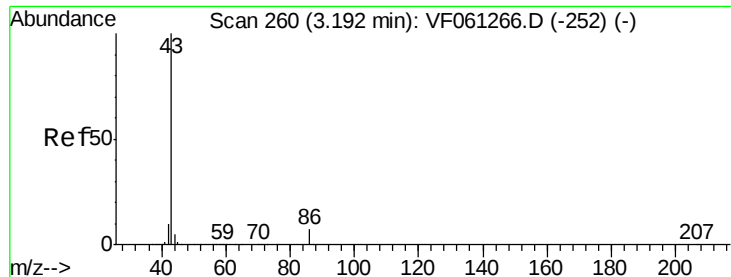
45 100

43 47.7 39.5 59.3

87 18.4 14.8 22.2

59 8.9 7.8 11.8





#23

Vinyl Acetate

Concen: 108.914 ug/l

RT: 3.19 min Scan# 259

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

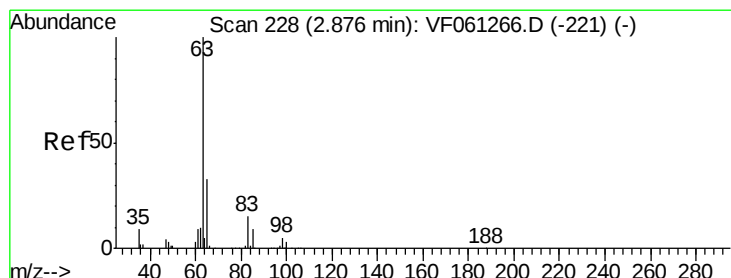
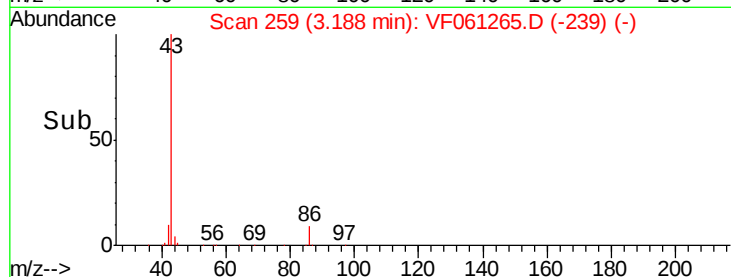
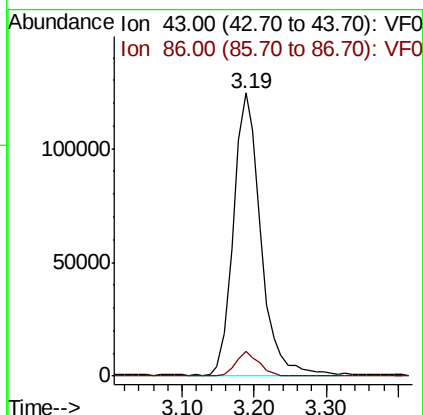
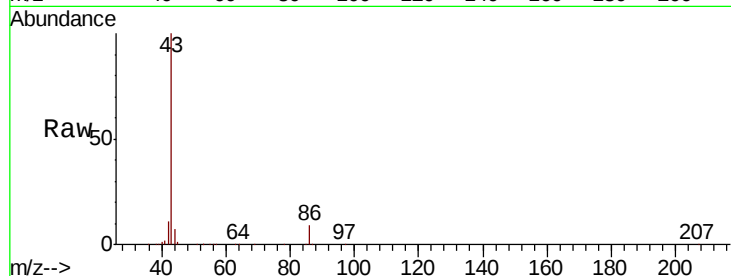
VSTDIC020

Tgt Ion: 43 Resp: 326492

Ion Ratio Lower Upper

43 100

86 8.8 6.0 9.0



#24

1,1-Dichloroethane

Concen: 20.613 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

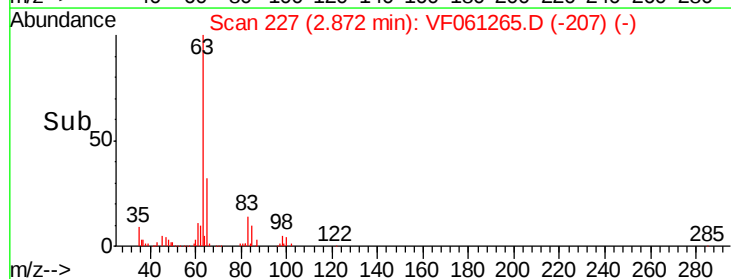
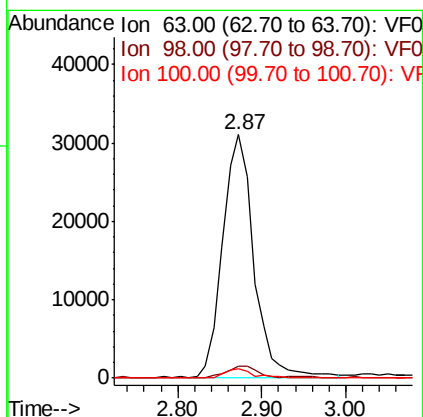
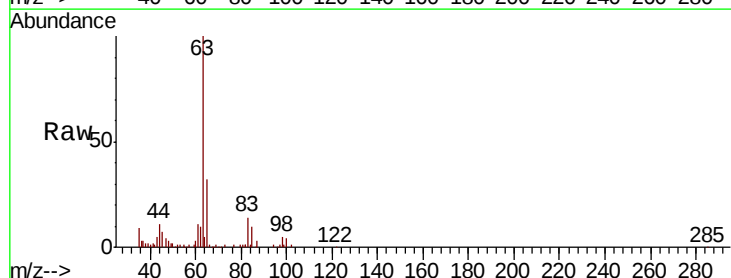
Tgt Ion: 63 Resp: 80498

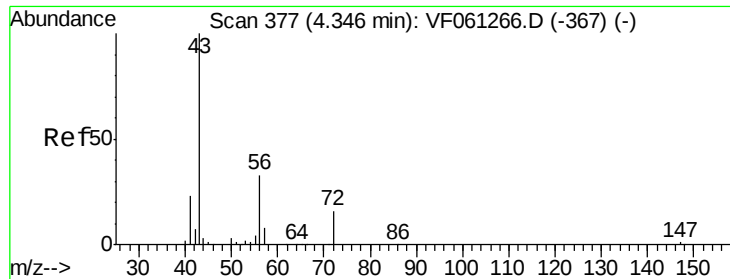
Ion Ratio Lower Upper

63 100

98 5.0 2.5 7.5

100 3.9 1.6 4.8





#25

2-Butanone

Concen: 119.697 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.01 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

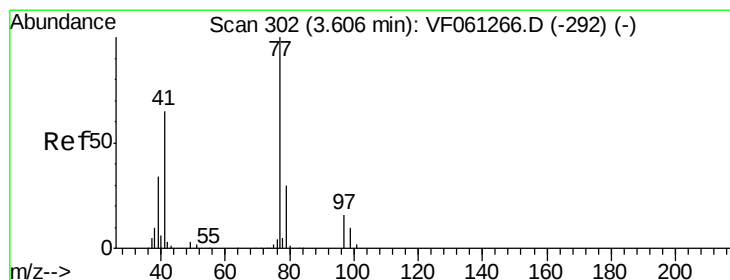
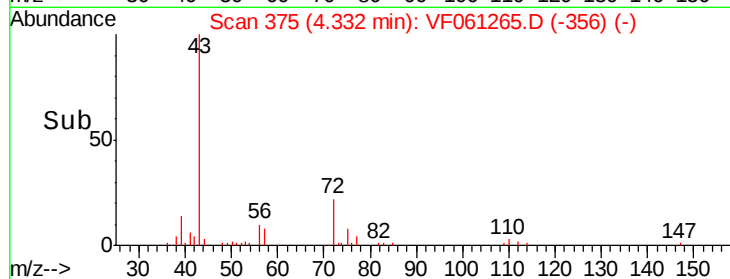
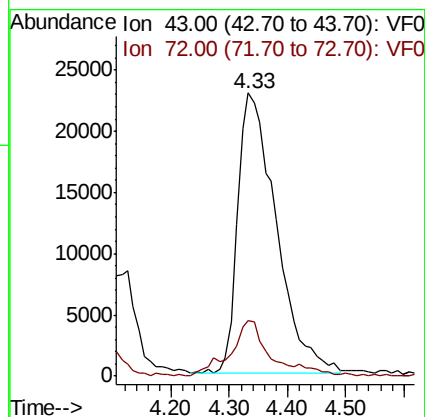
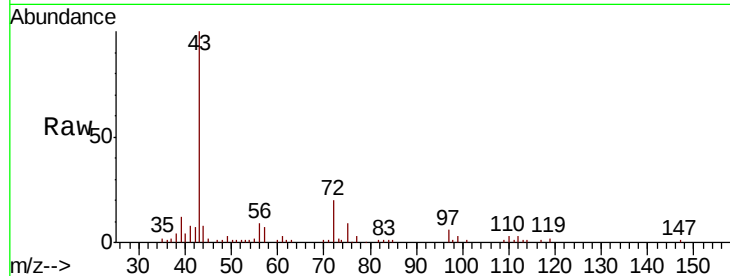
VSTDIC020

Tgt Ion: 43 Resp: 105768

Ion Ratio Lower Upper

43 100

72 19.5 13.0 19.6



#26

2,2-Dichloropropane

Concen: 21.393 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.01 min

Lab File: VF061265.D

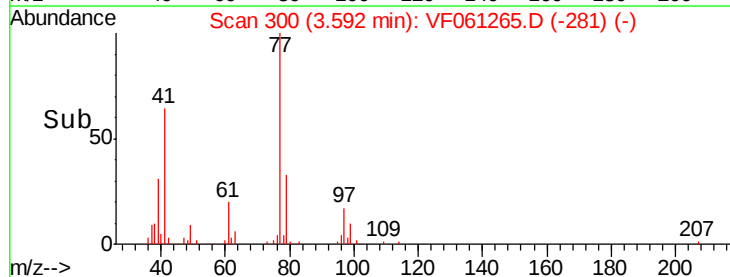
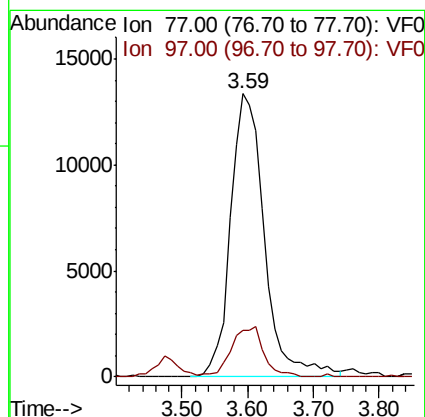
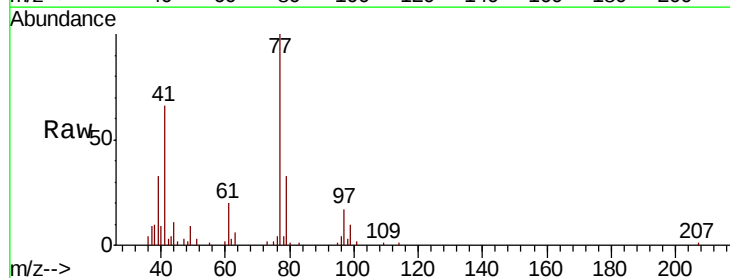
Acq: 3 Jan 2019 15:17

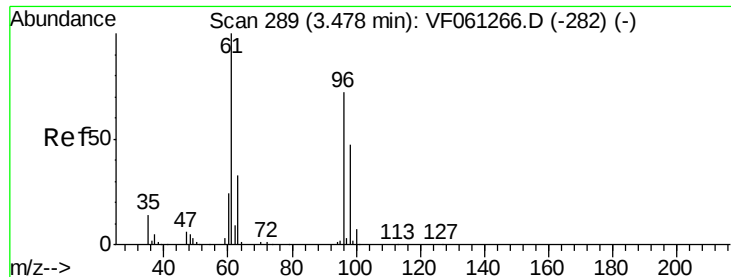
Tgt Ion: 77 Resp: 48265

Ion Ratio Lower Upper

77 100

97 16.5 8.9 26.7



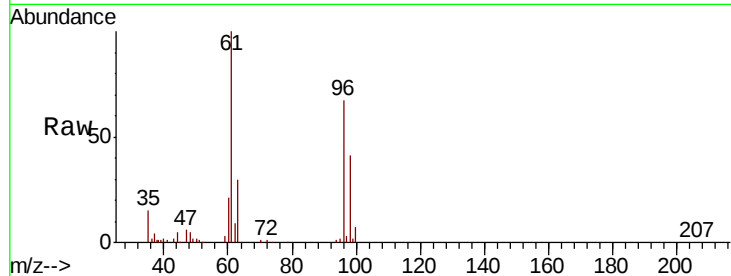


#27

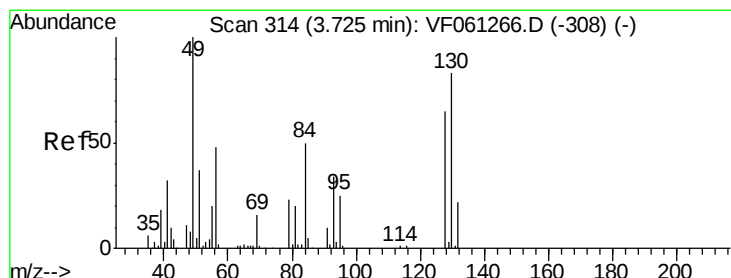
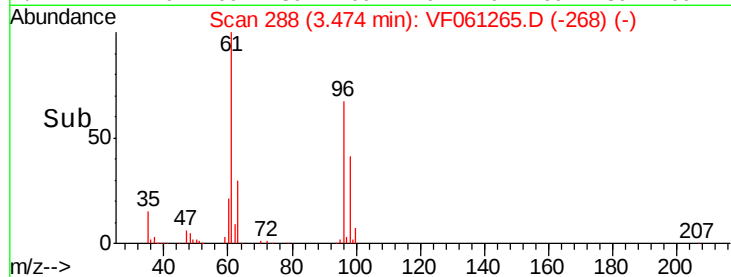
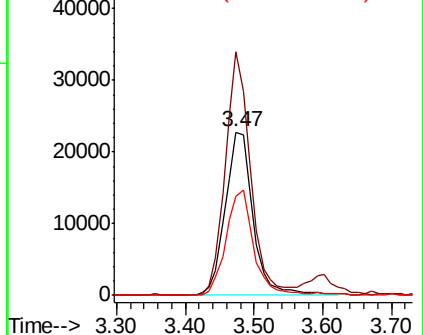
cis-1,2-Dichloroethene  
 Concen: 20.638 ug/l  
 RT: 3.47 min Scan# 288  
 Delta R.T. -0.00 min  
 Lab File: VF061265.D  
 Acq: 3 Jan 2019 15:17

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

Tgt Ion: 96 Resp: 63831  
 Ion Ratio Lower Upper  
 96 100  
 61 149.3 0.0 277.8  
 98 60.7 0.0 130.8



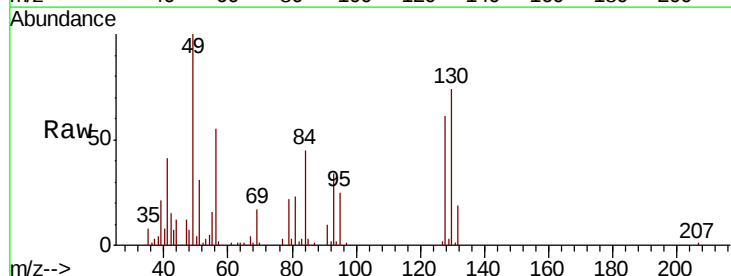
Abundance Ion 96.00 (95.70 to 96.70): VF0  
 Ion 61.00 (60.70 to 61.70): VF0  
 Ion 98.00 (97.70 to 98.70): VF0



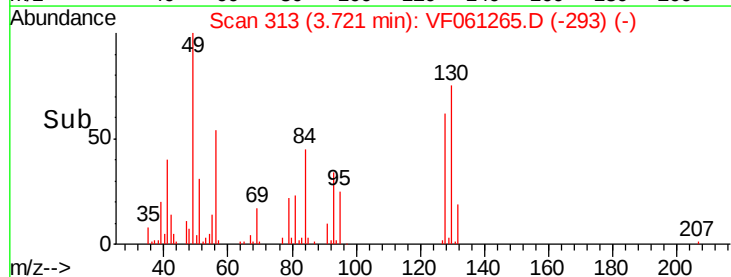
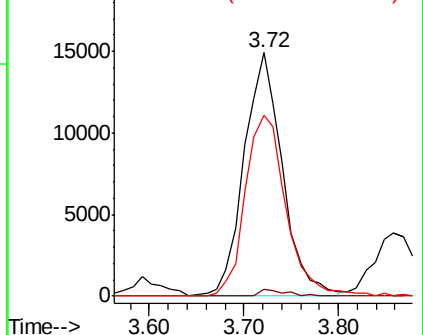
#28

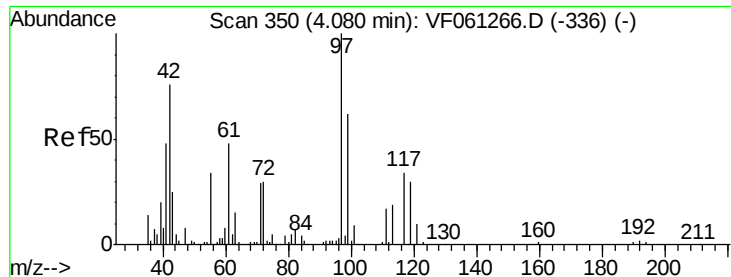
Bromochloromethane  
 Concen: 21.746 ug/l  
 RT: 3.72 min Scan# 313  
 Delta R.T. -0.00 min  
 Lab File: VF061265.D  
 Acq: 3 Jan 2019 15:17

Tgt Ion: 49 Resp: 42150  
 Ion Ratio Lower Upper  
 49 100  
 129 2.8 0.0 5.4  
 130 74.1 65.7 98.5



Abundance Ion 49.00 (48.70 to 49.70): VF0  
 Ion 129.00 (128.70 to 129.70): V  
 Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 99.866 ug/l

RT: 4.09 min Scan# 350

Delta R.T. 0.01 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

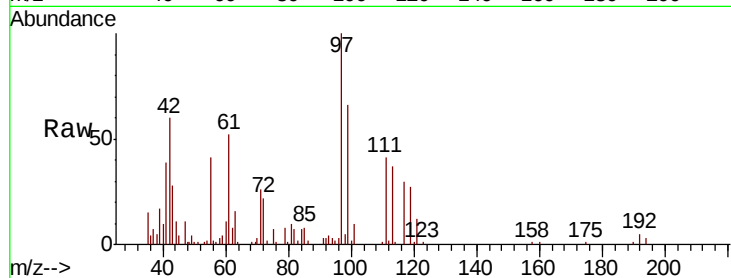
Tgt Ion: 42 Resp: 35997

Ion Ratio Lower Upper

42 100

72 37.9 29.2 43.8

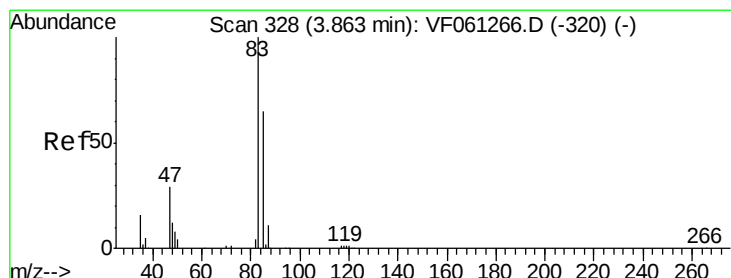
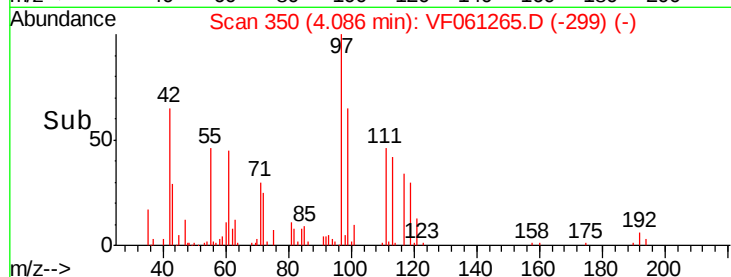
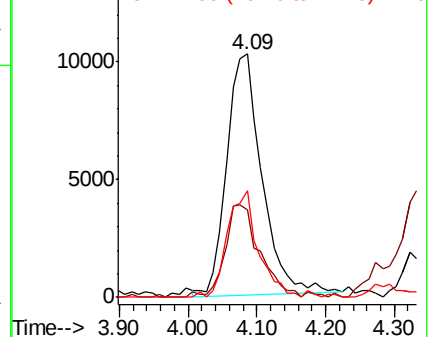
71 38.8 29.1 43.7



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 20.312 ug/l

RT: 3.86 min Scan# 327

Delta R.T. -0.00 min

Lab File: VF061265.D

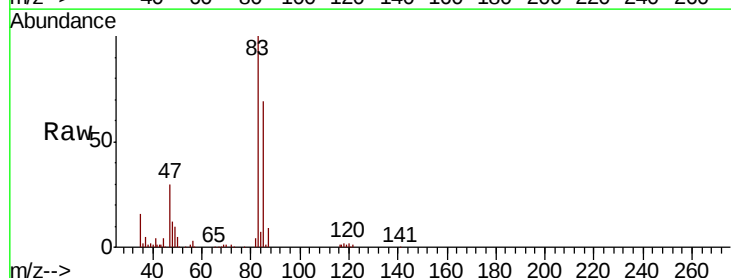
Acq: 3 Jan 2019 15:17

Tgt Ion: 83 Resp: 117382

Ion Ratio Lower Upper

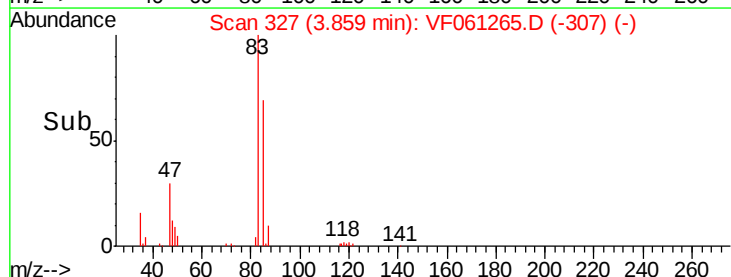
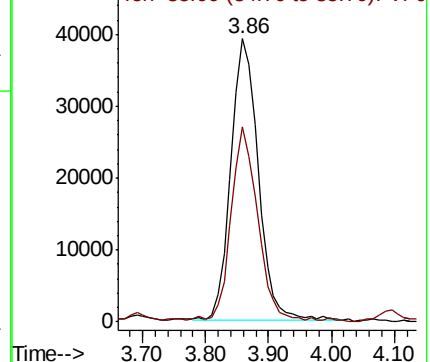
83 100

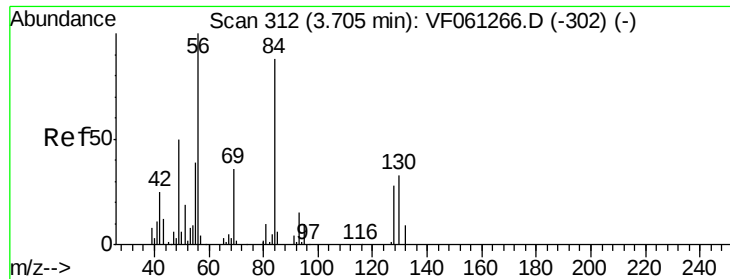
85 68.8 52.2 78.4



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

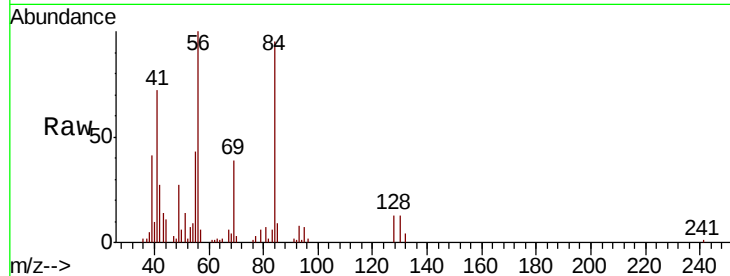




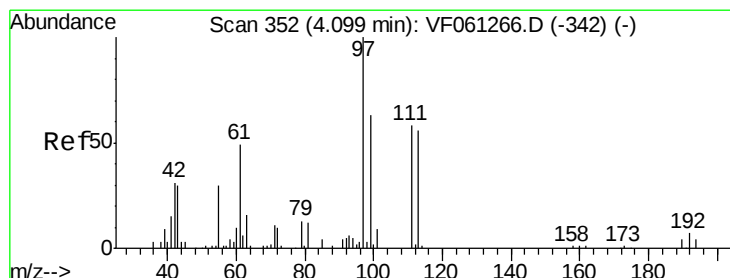
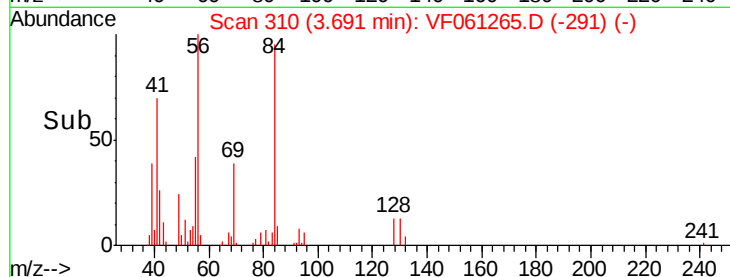
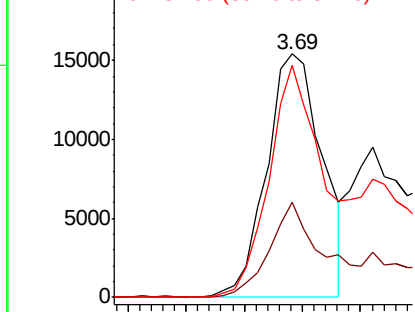
#31  
Cyclohexane  
Concen: 12.509 ug/l  
RT: 3.69 min Scan# 310  
Delta R.T. -0.01 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

Tgt Ion: 56 Resp: 51170  
Ion Ratio Lower Upper  
56 100  
69 38.9 28.7 43.1  
84 95.4 70.6 106.0

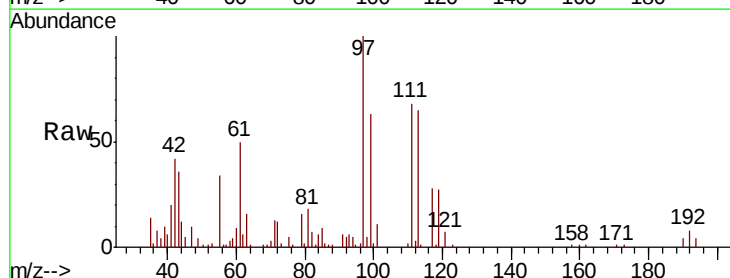


Abundance Ion 56.00 (55.70 to 56.70): VF0  
Ion 69.00 (68.70 to 69.70): VF0  
Ion 84.00 (83.70 to 84.70): VF0

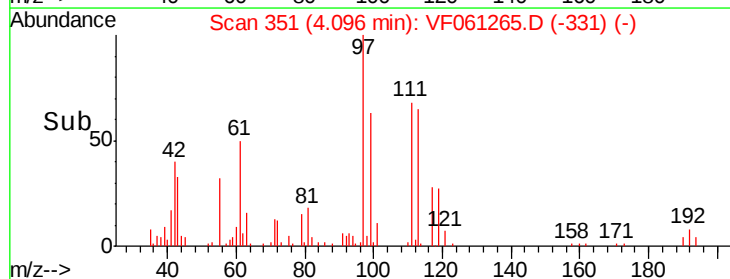
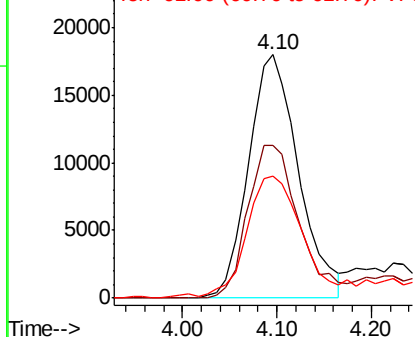


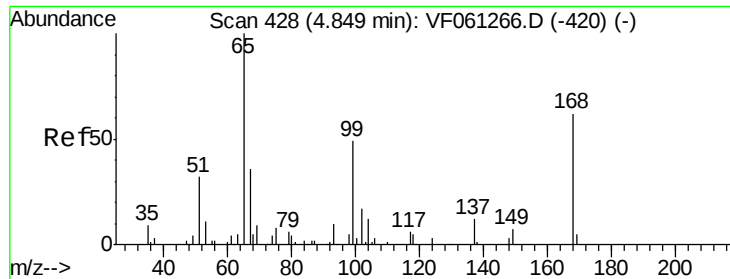
#32  
1,1,1-Trichloroethane  
Concen: 18.358 ug/l  
RT: 4.10 min Scan# 351  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Tgt Ion: 97 Resp: 66212  
Ion Ratio Lower Upper  
97 100  
99 62.6 50.6 76.0  
61 50.1 39.6 59.4



Abundance Ion 97.00 (96.70 to 97.70): VF0  
Ion 99.00 (98.70 to 99.70): VF0  
Ion 61.00 (60.70 to 61.70): VF0

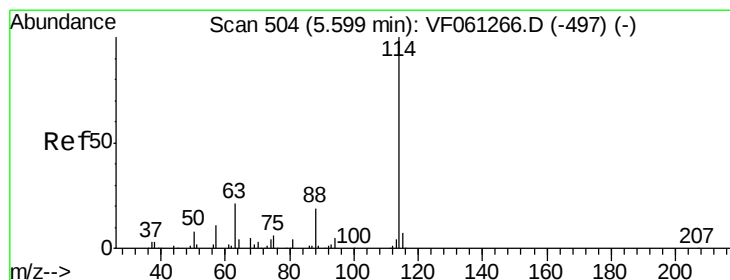
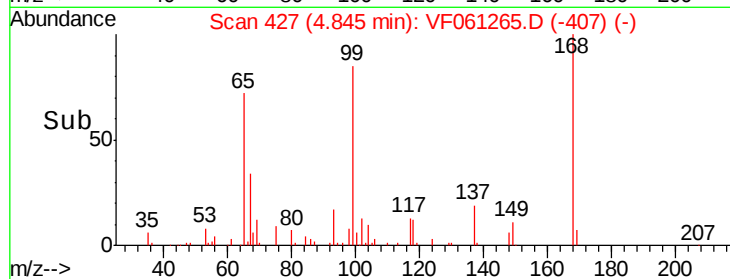
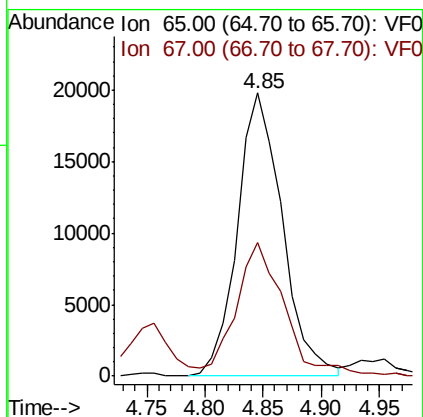
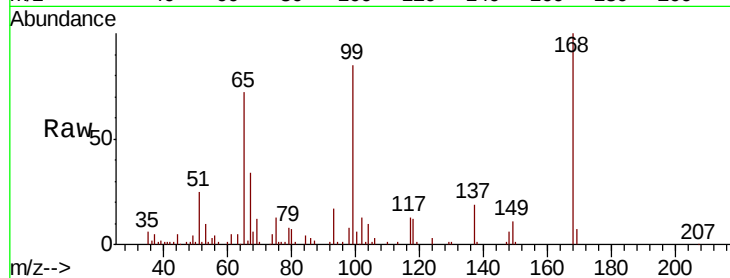




#33  
 1,2-Dichloroethane-d4  
 Concen: 19.419 ug/l  
 RT: 4.85 min Scan# 427  
 Delta R.T. -0.00 min  
 Lab File: VF061265.D  
 Acq: 3 Jan 2019 15:17

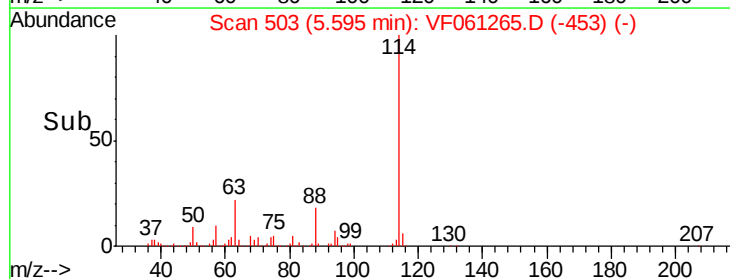
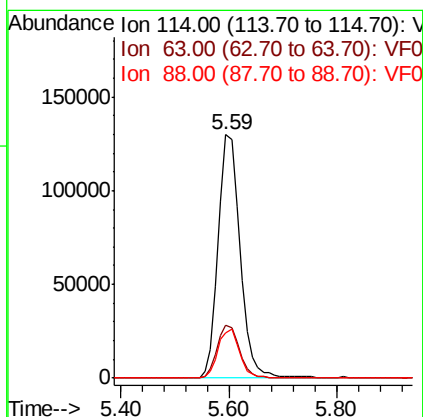
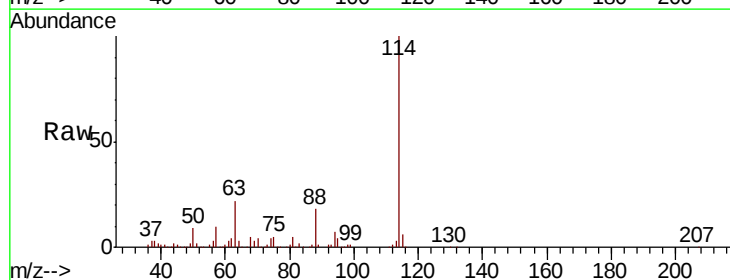
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

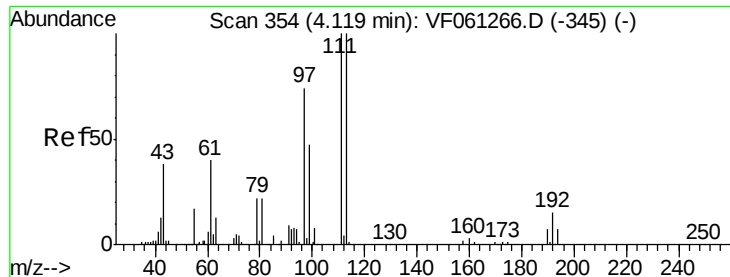
Tgt Ion: 65 Resp: 52968  
 Ion Ratio Lower Upper  
 65 100  
 67 47.1 0.0 90.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.59 min Scan# 503  
 Delta R.T. -0.00 min  
 Lab File: VF061265.D  
 Acq: 3 Jan 2019 15:17

Tgt Ion: 114 Resp: 368321  
 Ion Ratio Lower Upper  
 114 100  
 63 21.8 0.0 41.8  
 88 18.4 0.0 38.4

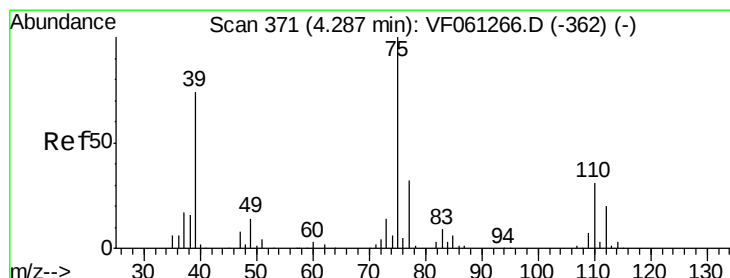
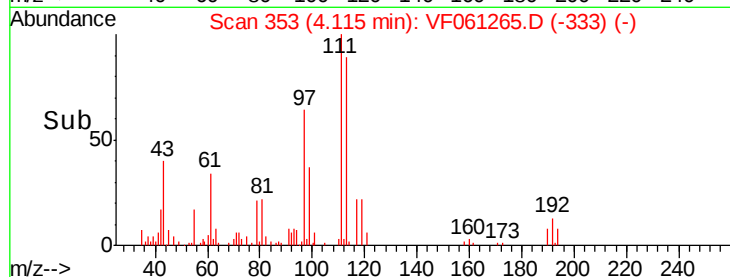
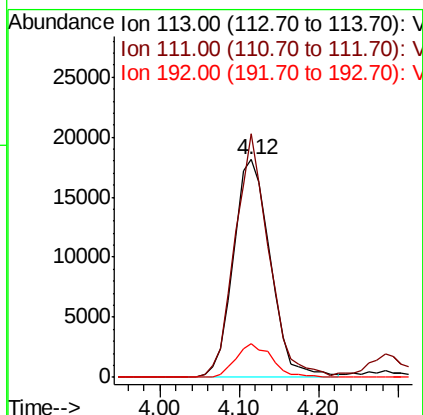
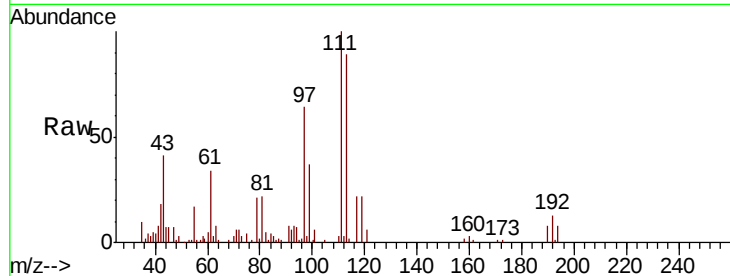




#35  
 Dibromofluoromethane  
 Concen: 19.918 ug/l  
 RT: 4.12 min Scan# 353  
 Delta R.T. -0.00 min  
 Lab File: VF061265.D  
 Acq: 3 Jan 2019 15:17

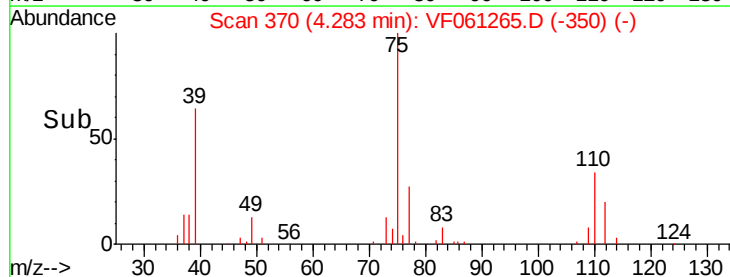
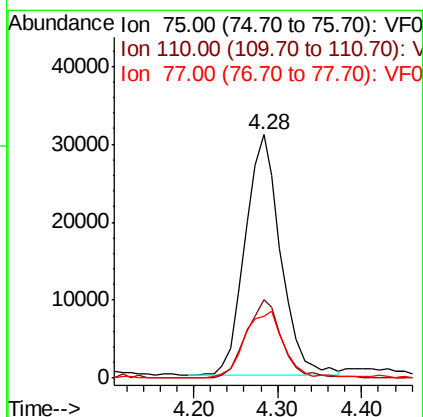
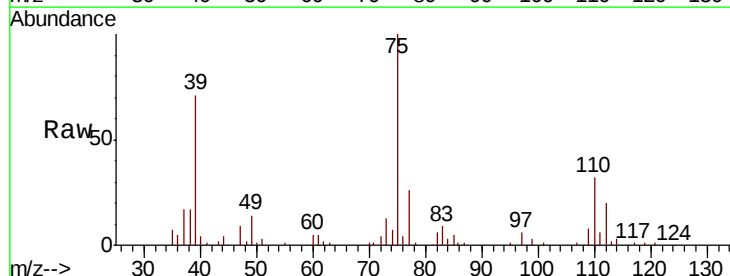
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

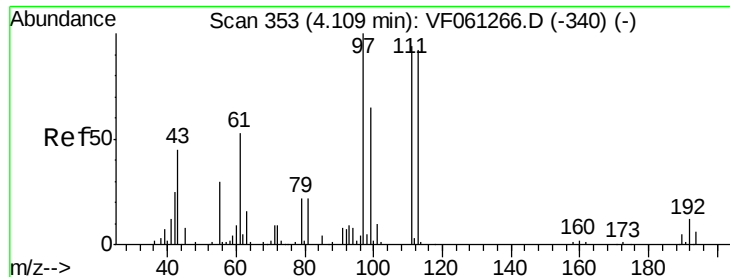
Tgt Ion:113 Resp: 58617  
 Ion Ratio Lower Upper  
 113 100  
 111 112.0 79.8 119.6  
 192 15.6 11.9 17.9



#36  
 1,1-Dichloropropene  
 Concen: 20.650 ug/l  
 RT: 4.28 min Scan# 370  
 Delta R.T. -0.00 min  
 Lab File: VF061265.D  
 Acq: 3 Jan 2019 15:17

Tgt Ion: 75 Resp: 91993  
 Ion Ratio Lower Upper  
 75 100  
 110 32.3 15.4 46.4  
 77 25.5 25.6 38.4#

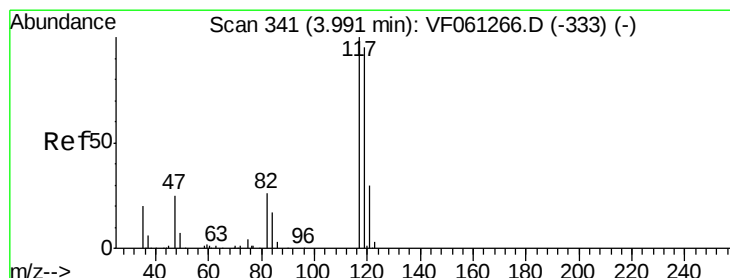
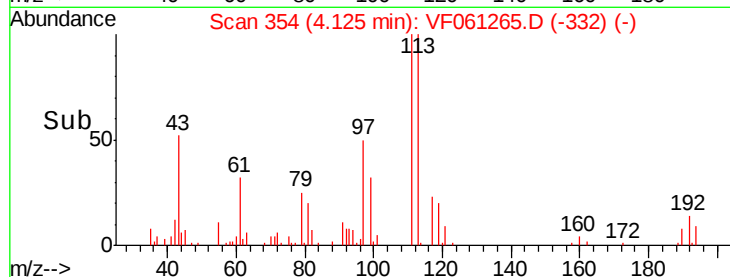
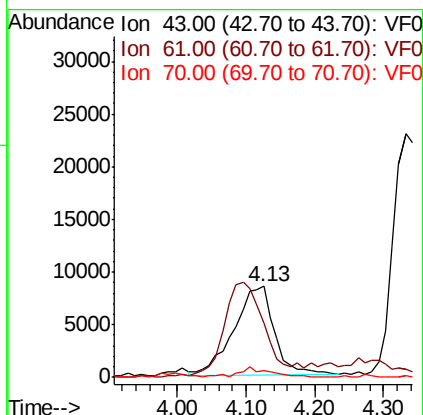
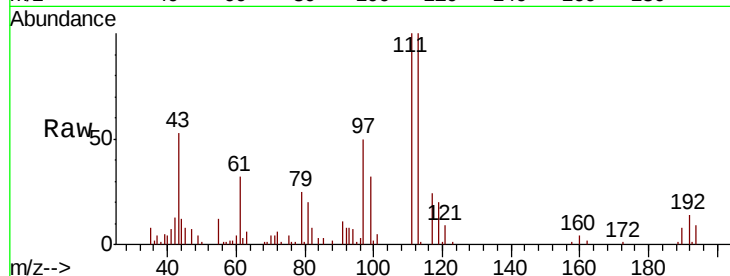




#37  
Ethyl Acetate  
Concen: 19.243 ug/l  
RT: 4.13 min Scan# 354  
Delta R.T. 0.02 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

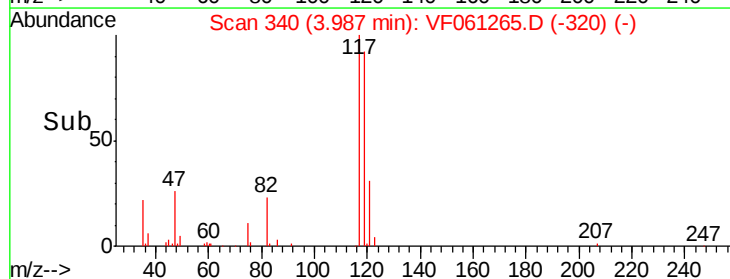
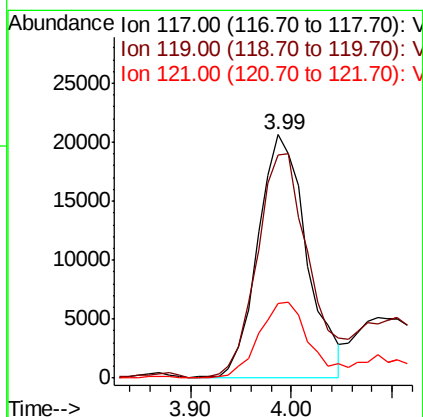
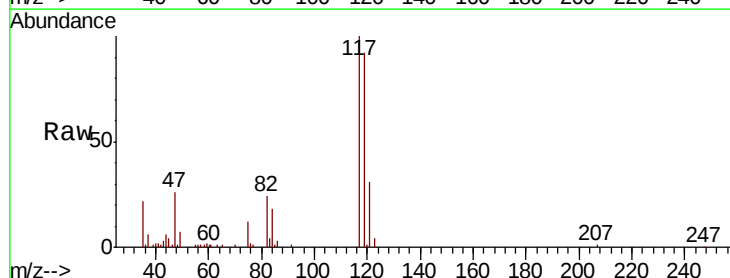
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

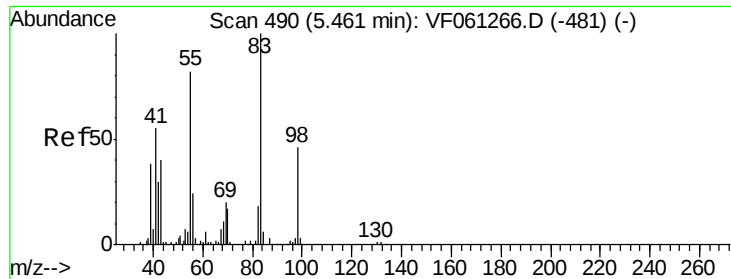
Tgt Ion: 43 Resp: 34611  
Ion Ratio Lower Upper  
43 100  
61 59.9 91.2 136.8#  
70 7.8 7.1 10.7



#38  
Carbon Tetrachloride  
Concen: 20.278 ug/l  
RT: 3.99 min Scan# 340  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Tgt Ion: 117 Resp: 69671  
Ion Ratio Lower Upper  
117 100  
119 91.7 76.0 114.0  
121 30.7 23.8 35.8

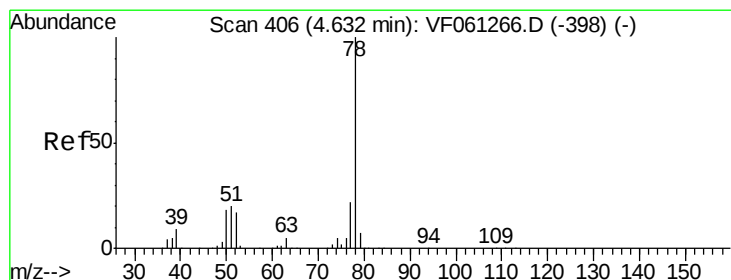
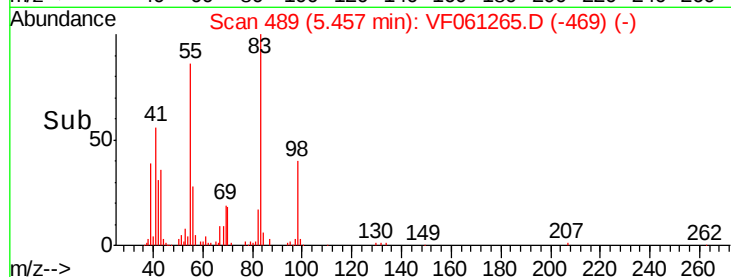
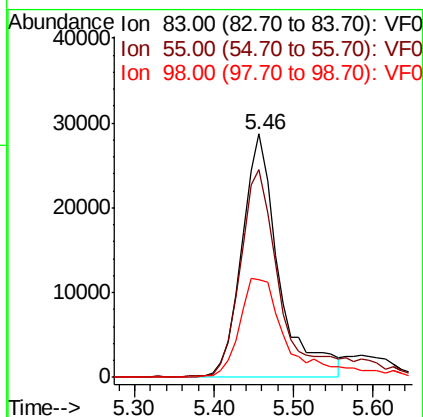
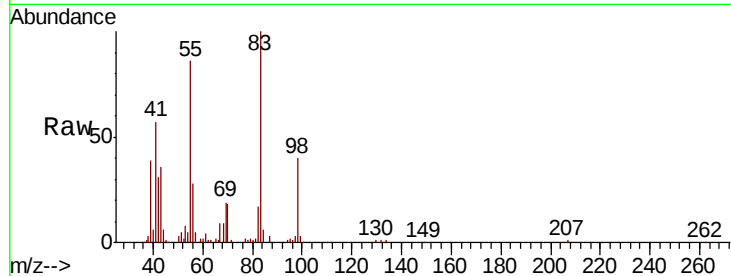




#39  
Methylcyclohexane  
Concen: 22.527 ug/l  
RT: 5.46 min Scan# 489  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

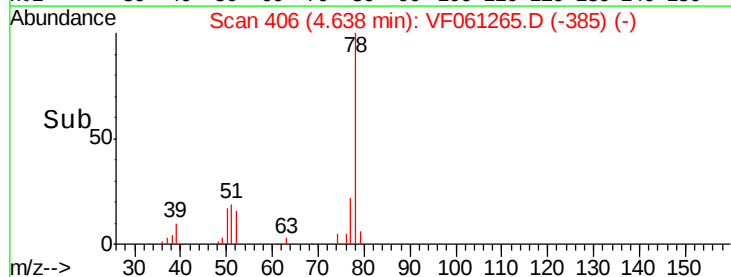
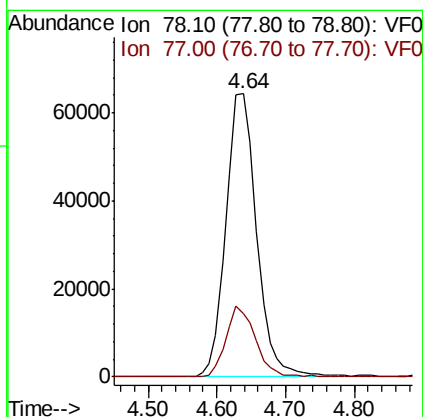
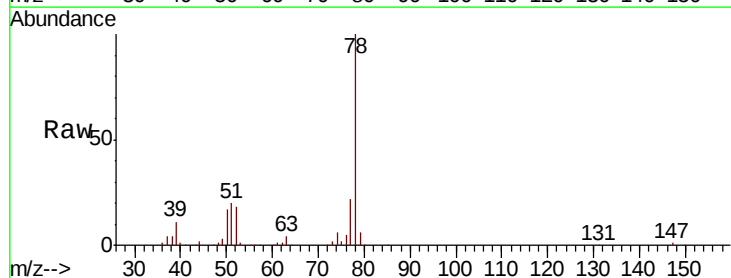
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

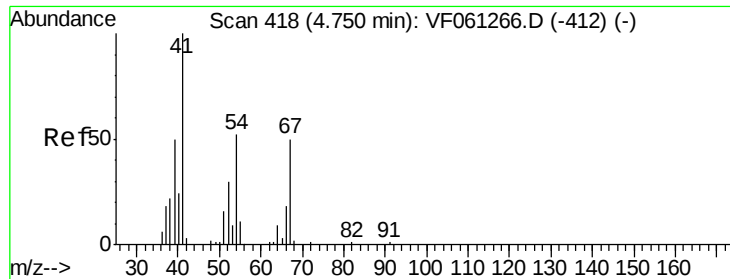
Tgt Ion: 83 Resp: 92202  
Ion Ratio Lower Upper  
83 100  
55 85.5 65.6 98.4  
98 40.3 36.7 55.1



#40  
Benzene  
Concen: 20.736 ug/l  
RT: 4.64 min Scan# 406  
Delta R.T. 0.01 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Tgt Ion: 78 Resp: 199992  
Ion Ratio Lower Upper  
78 100  
77 22.3 18.0 27.0





#41

Methacrylonitrile

Concen: 22.023 ug/l

RT: 4.75 min Scan# 417

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

Tgt Ion: 41 Resp: 20299

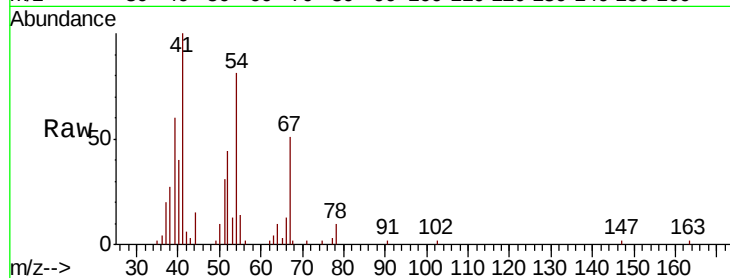
Ion Ratio Lower Upper

41 100

39 59.7 44.6 66.8

67 51.3 39.3 58.9

52 44.0 35.3 52.9

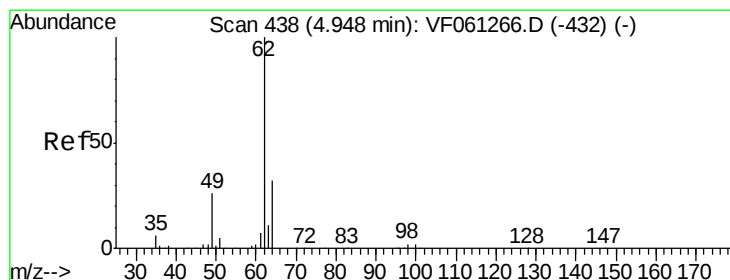
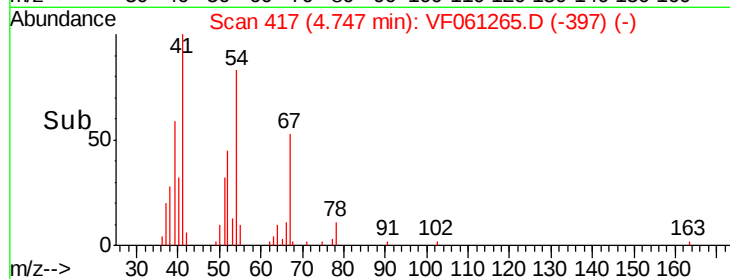
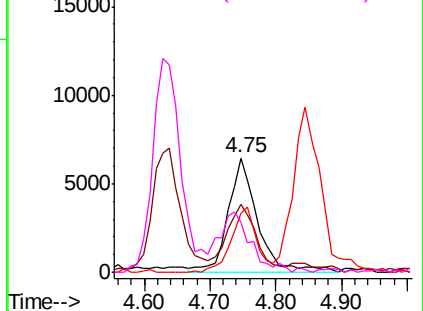


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 18.756 ug/l

RT: 4.94 min Scan# 437

Delta R.T. -0.00 min

Lab File: VF061265.D

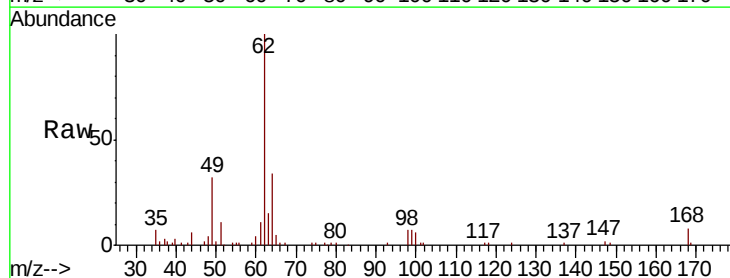
Acq: 3 Jan 2019 15:17

Tgt Ion: 62 Resp: 66484

Ion Ratio Lower Upper

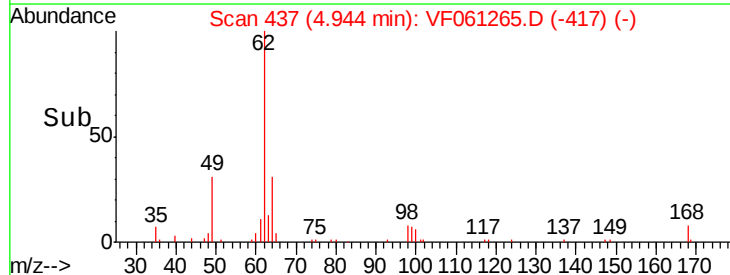
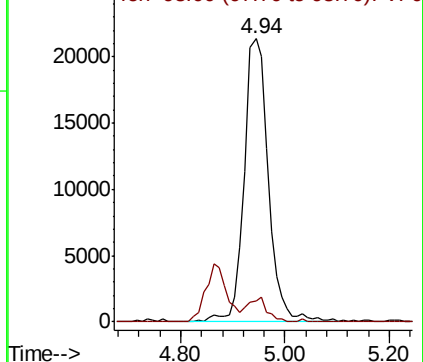
62 100

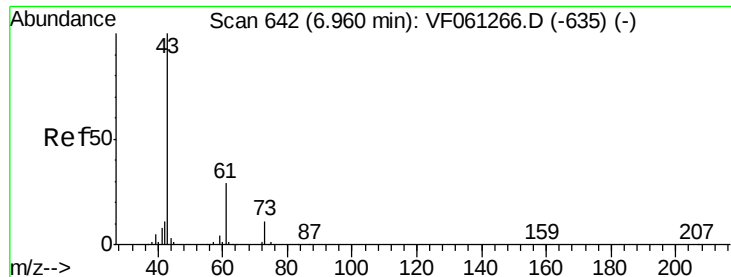
98 7.5 0.0 13.4



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 20.283 ug/l

RT: 6.97 min Scan# 642

Delta R.T. 0.01 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

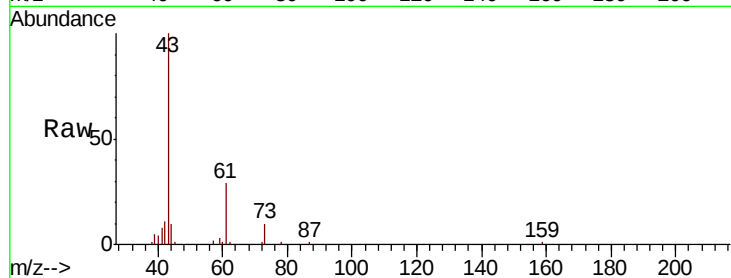
Tgt Ion: 43 Resp: 43559

Ion Ratio Lower Upper

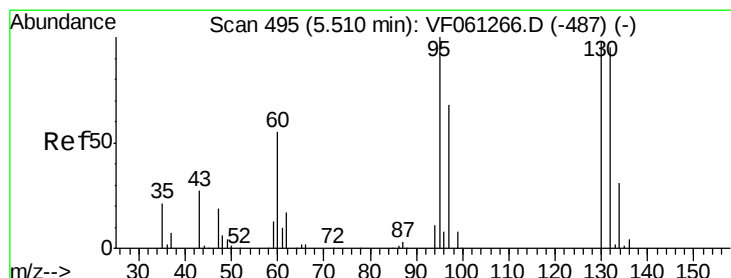
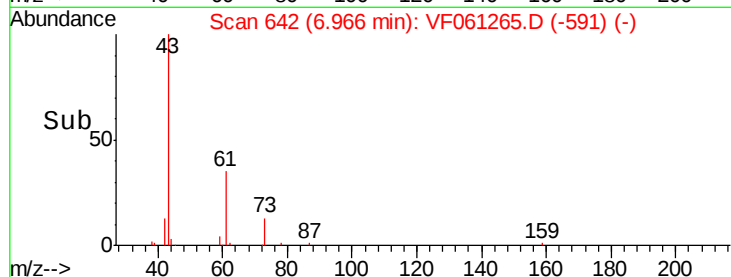
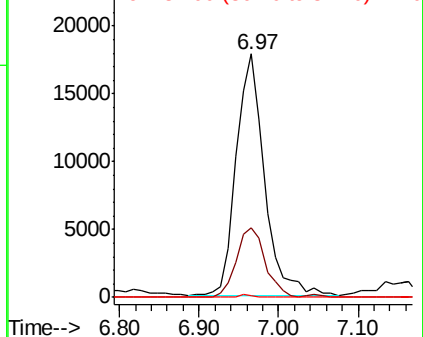
43 100

61 28.6 23.4 35.2

87 0.8 0.3 0.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0  
Ion 61.00 (60.70 to 61.70): VF0  
Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 22.107 ug/l

RT: 5.51 min Scan# 494

Delta R.T. -0.00 min

Lab File: VF061265.D

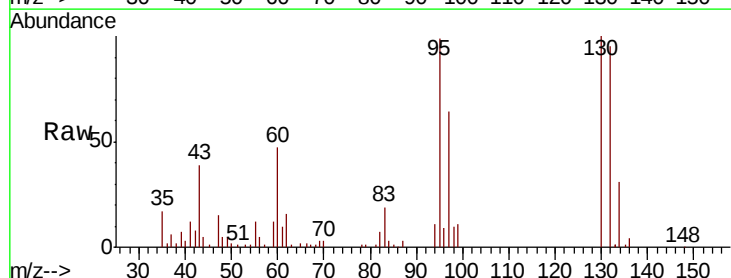
Acq: 3 Jan 2019 15:17

Tgt Ion:130 Resp: 66229

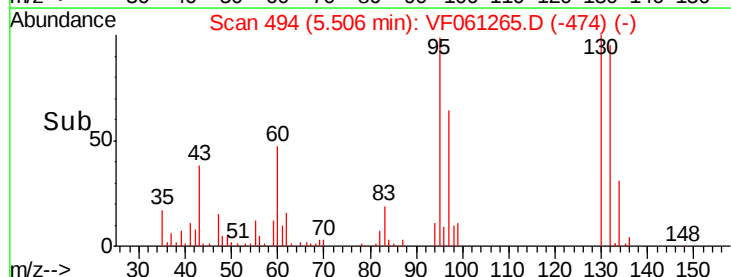
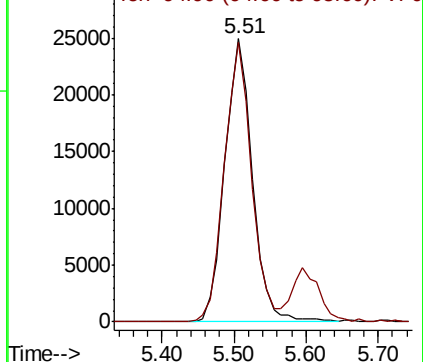
Ion Ratio Lower Upper

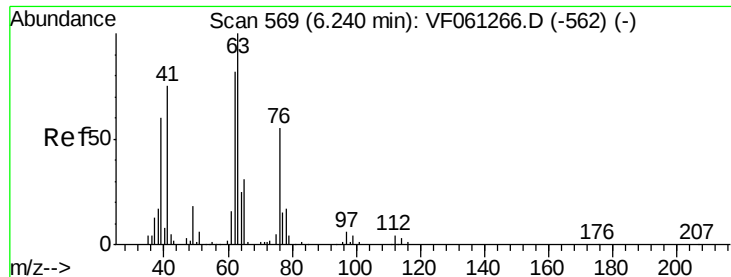
130 100

95 98.9 0.0 204.0



Abundance Ion 129.90 (129.60 to 130.60): V  
Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 18.540 ug/l

RT: 6.24 min Scan# 568

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

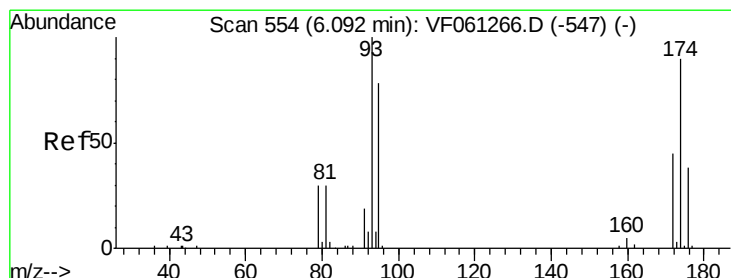
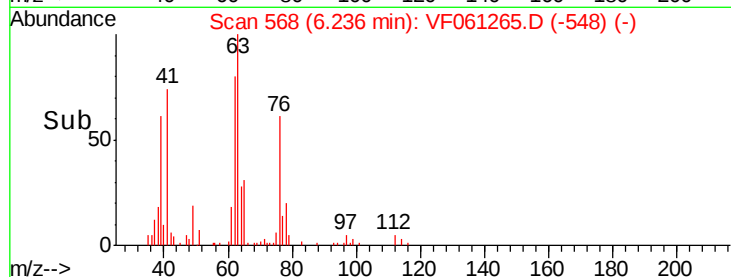
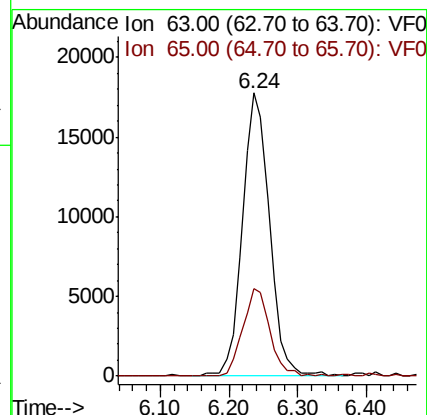
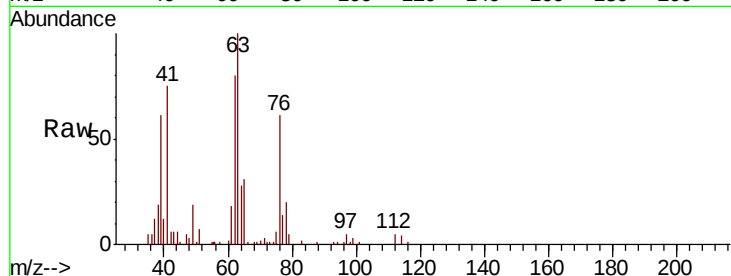
VSTDIC020

Tgt Ion: 63 Resp: 48360

Ion Ratio Lower Upper

63 100

65 30.9 24.4 36.6



#46

Dibromomethane

Concen: 20.261 ug/l

RT: 6.09 min Scan# 553

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

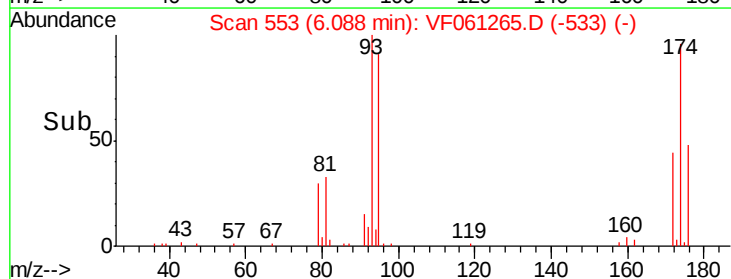
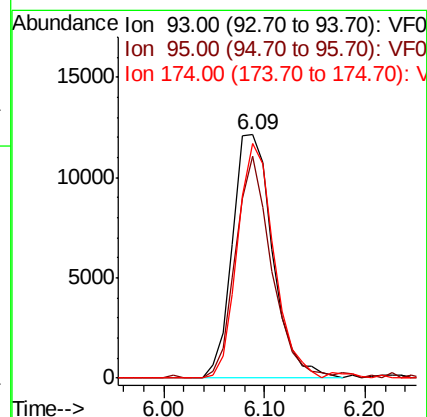
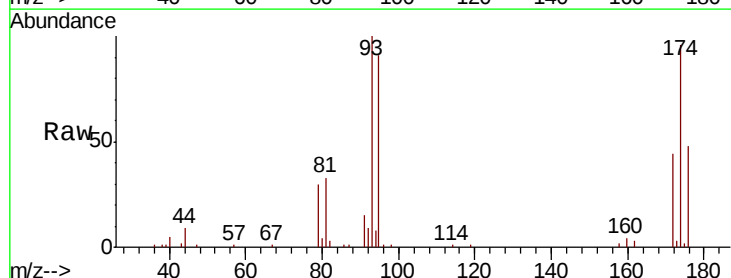
Tgt Ion: 93 Resp: 33758

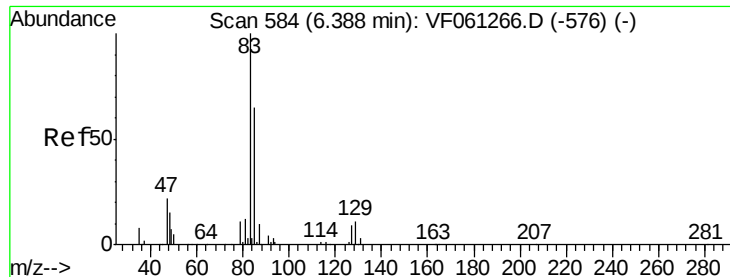
Ion Ratio Lower Upper

93 100

95 91.3 62.4 93.6

174 96.1 71.9 107.9





#47

Bromodichloromethane

Concen: 19.452 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

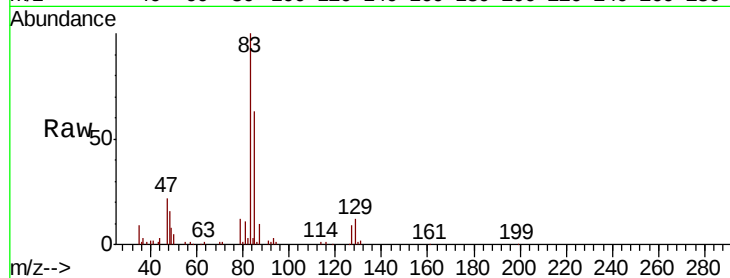
Tgt Ion: 83 Resp: 83893

Ion Ratio Lower Upper

83 100

85 62.7 52.1 78.1

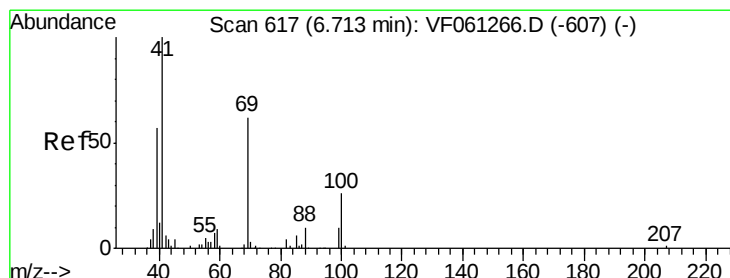
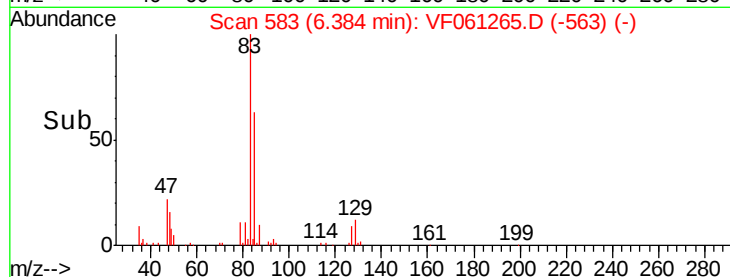
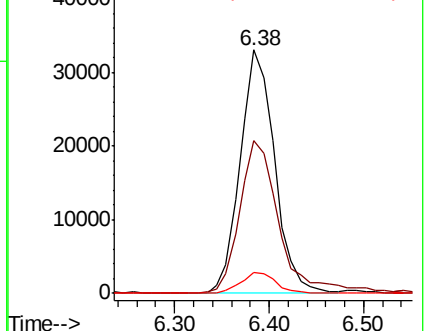
127 8.8 7.1 10.7



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 19.314 ug/l

RT: 6.72 min Scan# 617

Delta R.T. 0.01 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

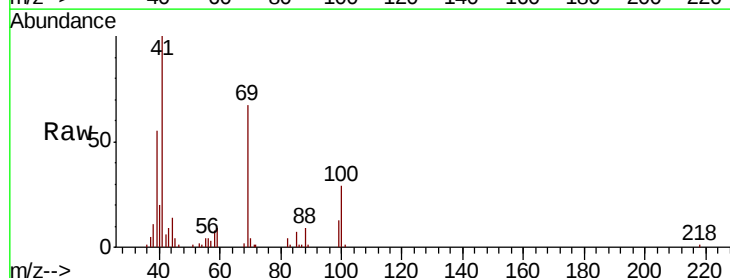
Tgt Ion: 41 Resp: 28940

Ion Ratio Lower Upper

41 100

69 66.7 49.8 74.8

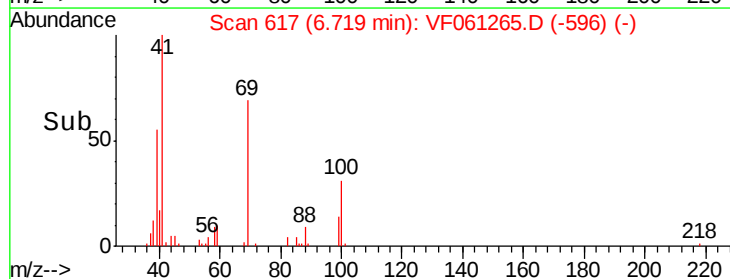
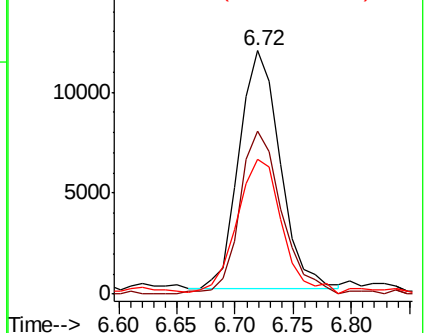
39 55.3 46.4 69.6

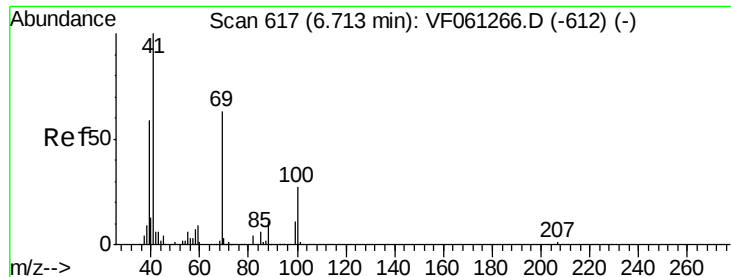


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 405.450 ug/l

RT: 6.71 min Scan# 616

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

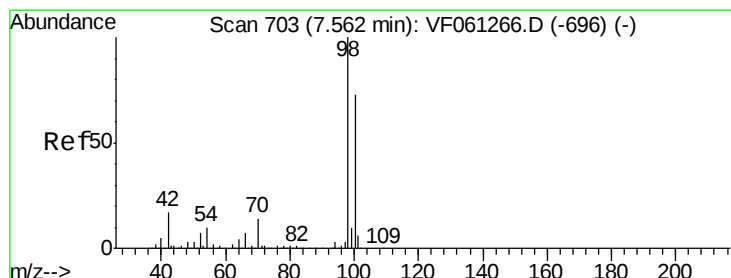
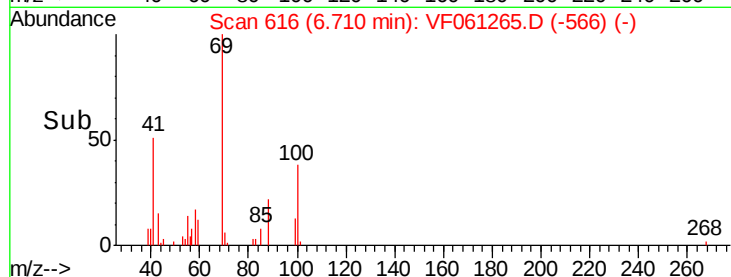
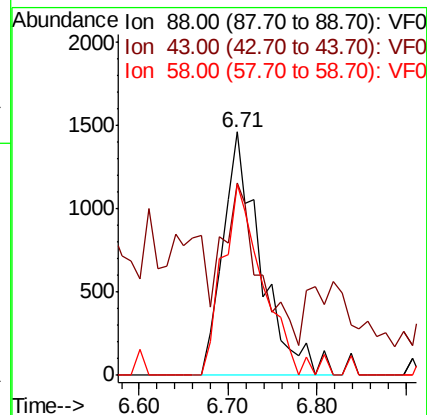
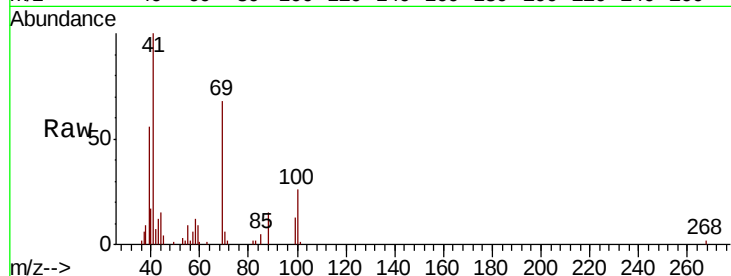
Tgt Ion: 88 Resp: 4331

Ion Ratio Lower Upper

88 100

43 79.2 55.2 82.8

58 78.5 50.9 76.3#



#50

Toluene-d8

Concen: 20.342 ug/l

RT: 7.56 min Scan# 702

Delta R.T. -0.00 min

Lab File: VF061265.D

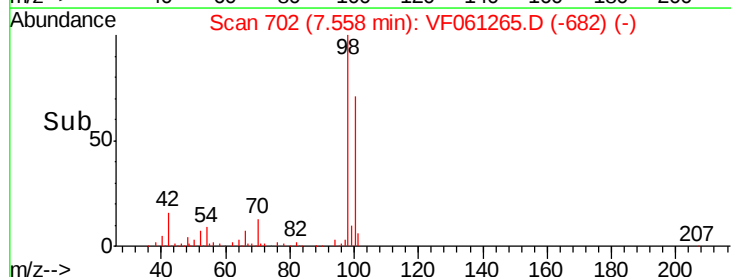
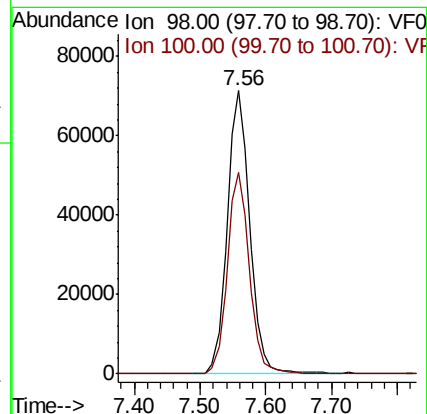
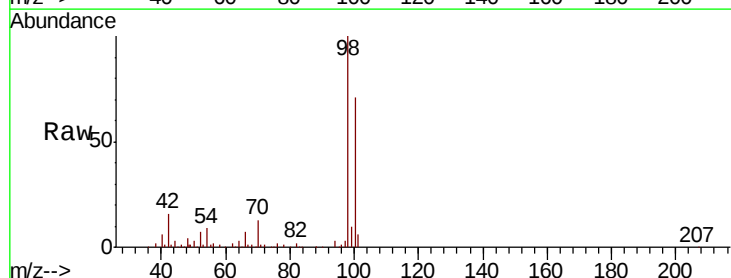
Acq: 3 Jan 2019 15:17

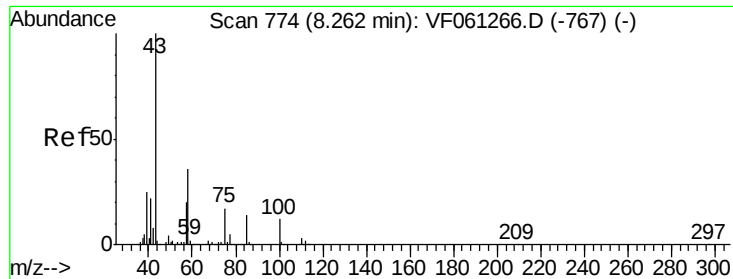
Tgt Ion: 98 Resp: 170631

Ion Ratio Lower Upper

98 100

100 71.2 58.1 87.1





#51

4-Methyl-2-Pentanone

Concen: 110.785 ug/l

RT: 8.26 min Scan# 773

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

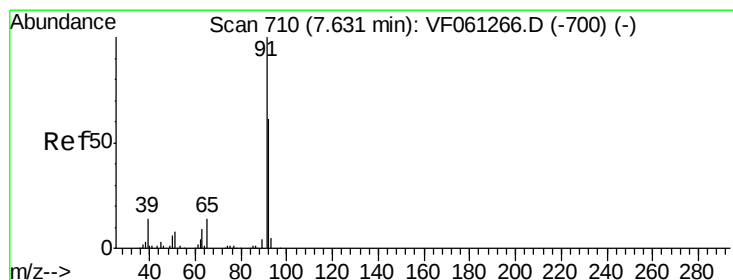
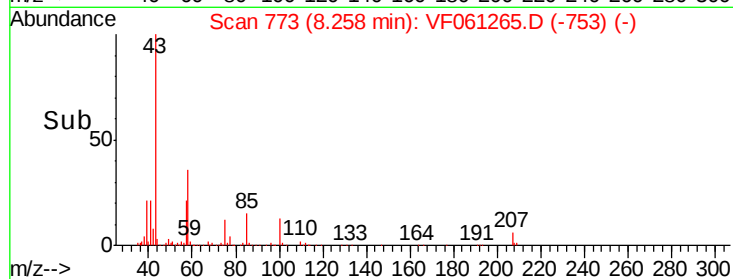
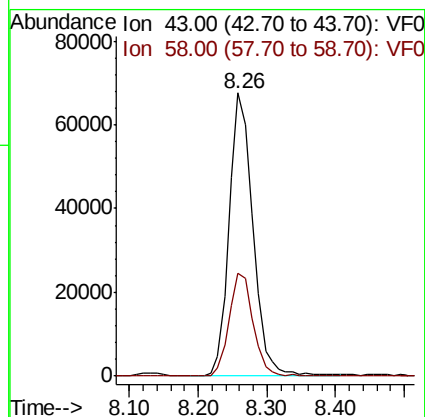
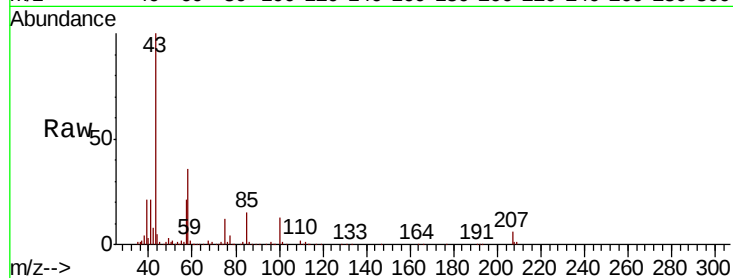
VSTDIC020

Tgt Ion: 43 Resp: 162699

Ion Ratio Lower Upper

43 100

58 36.1 29.1 43.7



#52

Toluene

Concen: 21.336 ug/l

RT: 7.63 min Scan# 709

Delta R.T. -0.00 min

Lab File: VF061265.D

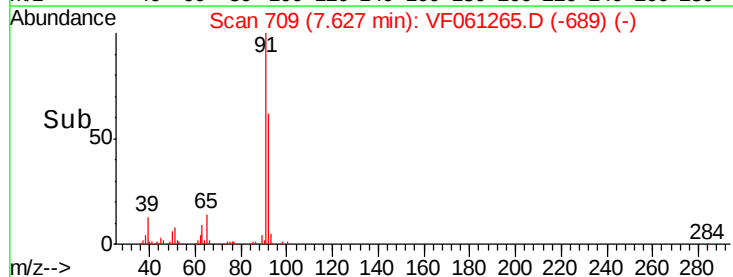
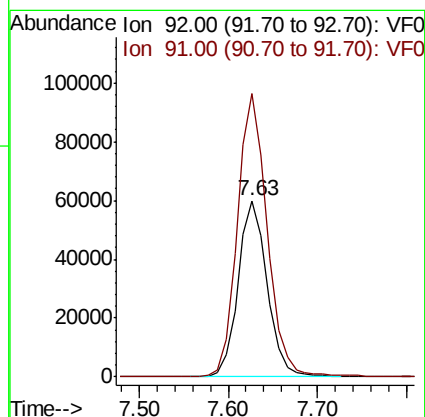
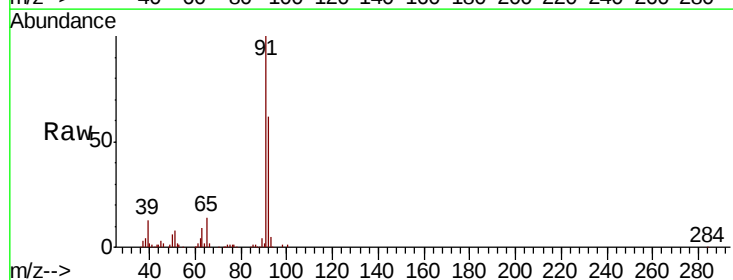
Acq: 3 Jan 2019 15:17

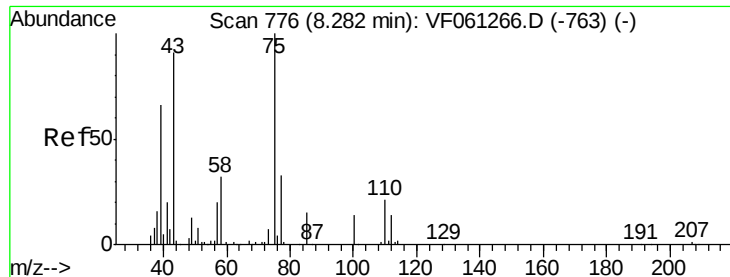
Tgt Ion: 92 Resp: 136022

Ion Ratio Lower Upper

92 100

91 160.9 130.5 195.7





#53

t-1,3-Dichloropropene

Concen: 20.499 ug/l

RT: 8.28 min Scan# 775

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

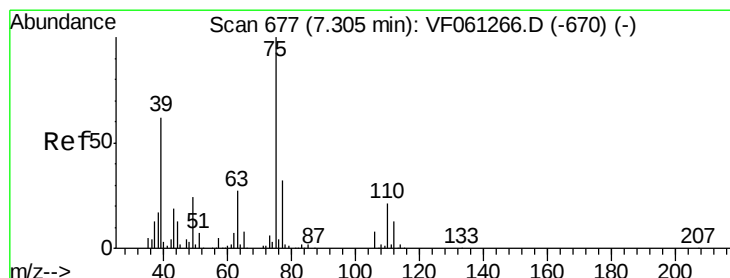
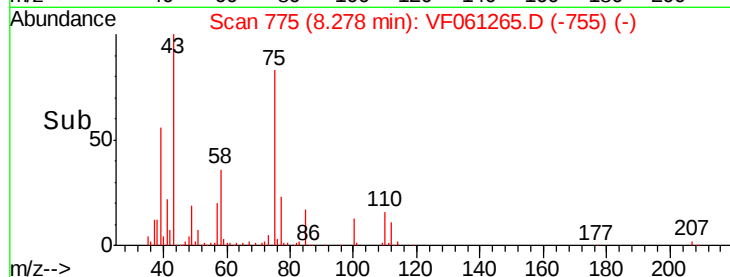
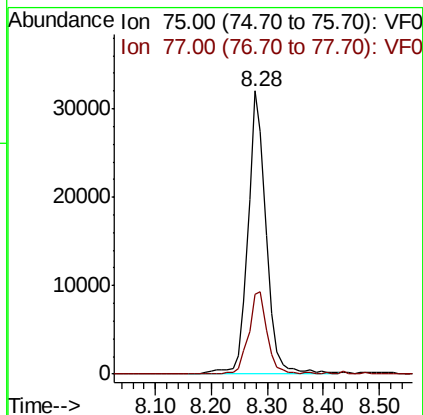
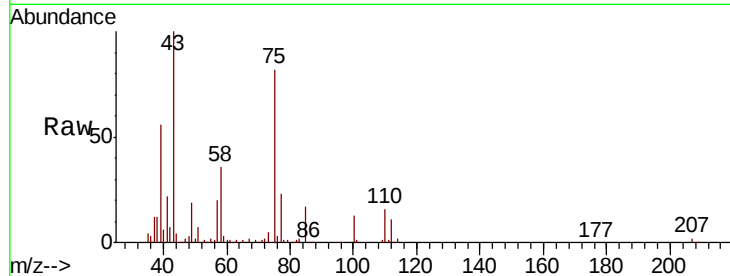
VSTDIC020

Tgt Ion: 75 Resp: 72053

Ion Ratio Lower Upper

75 100

77 28.1 26.8 40.2



#54

cis-1,3-Dichloropropene

Concen: 20.147 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

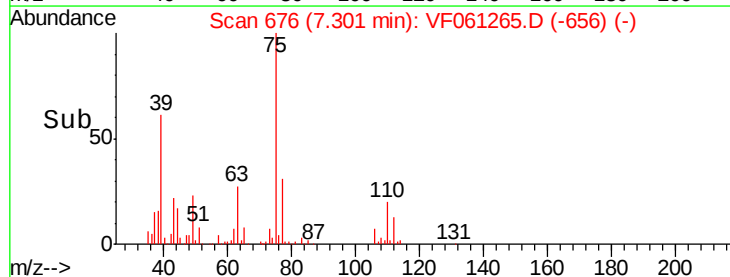
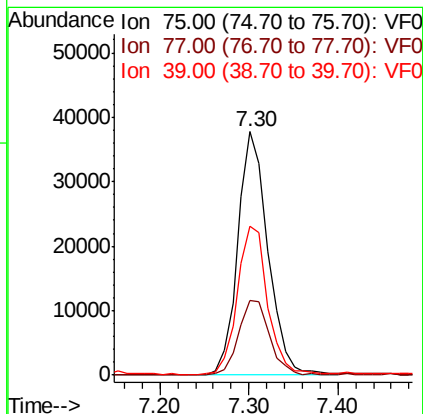
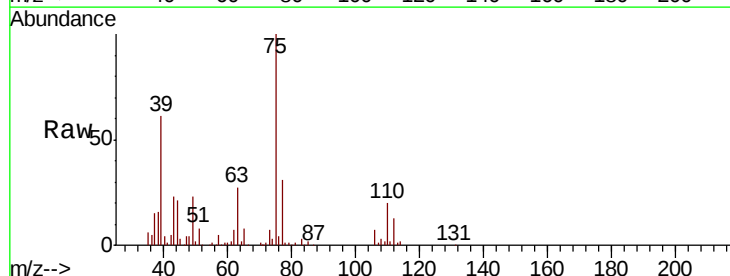
Tgt Ion: 75 Resp: 89030

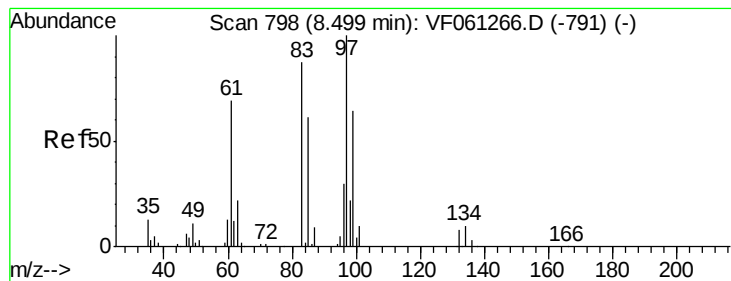
Ion Ratio Lower Upper

75 100

77 30.7 25.4 38.2

39 61.2 49.5 74.3





#55

1,1,2-Trichloroethane

Concen: 20.340 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 38526

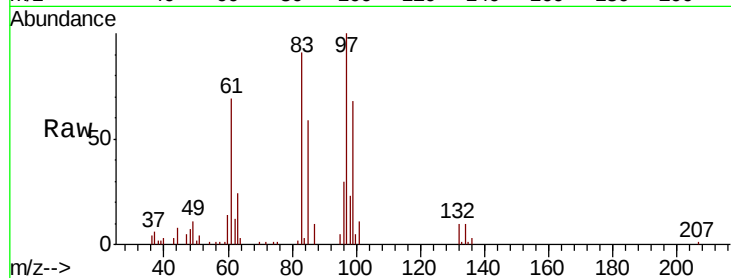
Ion Ratio Lower Upper

97 100

83 90.8 69.7 104.5

85 59.3 49.1 73.7

99 67.5 51.3 76.9



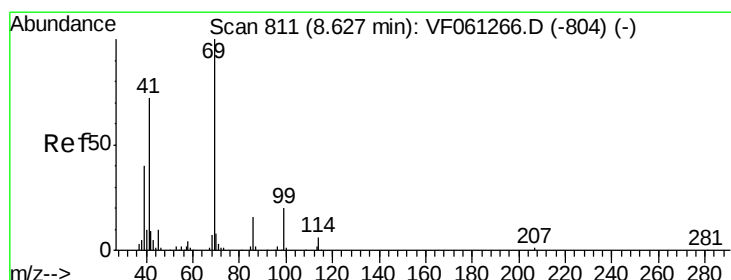
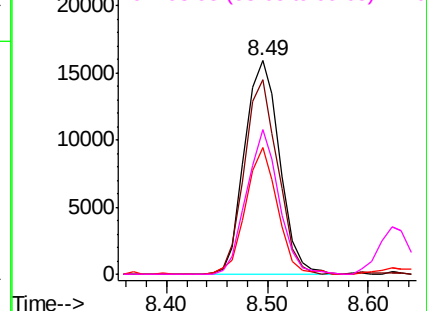
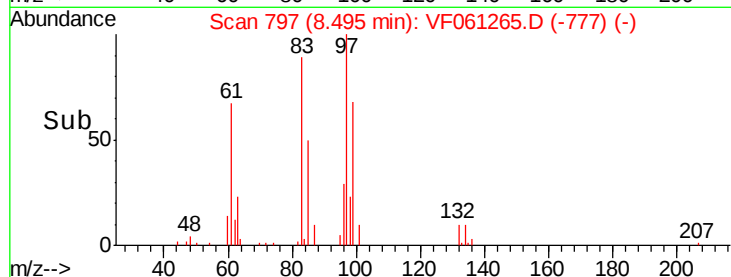
Abundance

Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 20.151 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

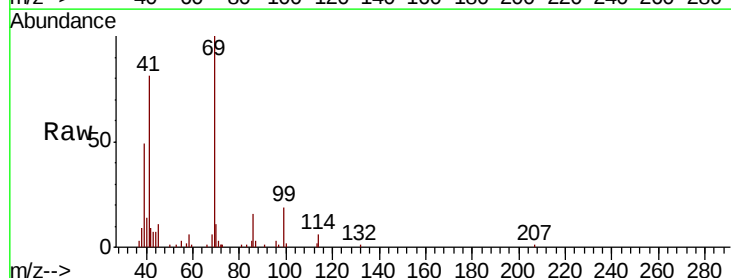
Tgt Ion: 69 Resp: 41221

Ion Ratio Lower Upper

69 100

41 81.3 58.1 87.1

39 49.1 32.6 49.0#

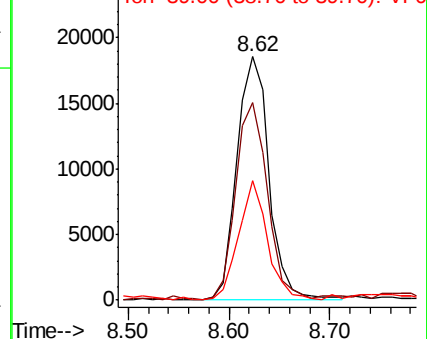
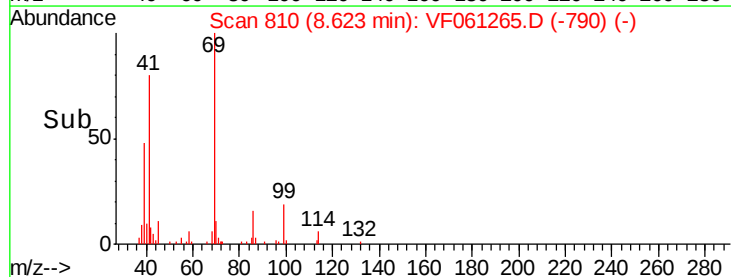


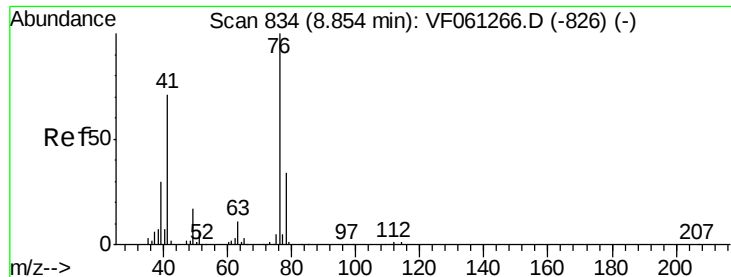
Abundance

Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 19.945 ug/l

RT: 8.86 min Scan# 834

Delta R.T. 0.01 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

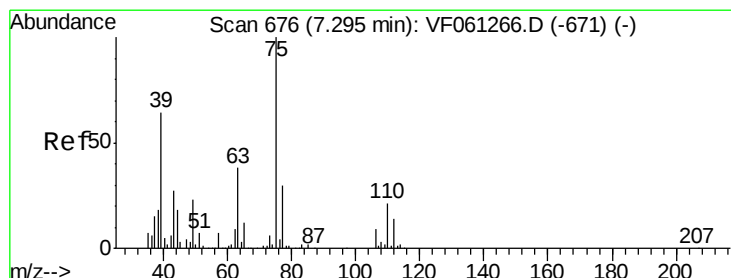
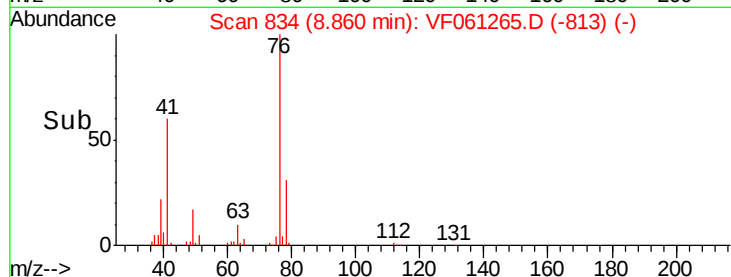
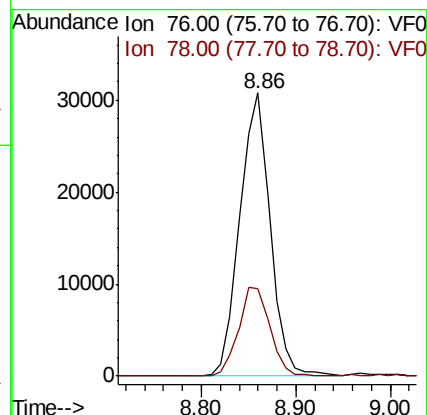
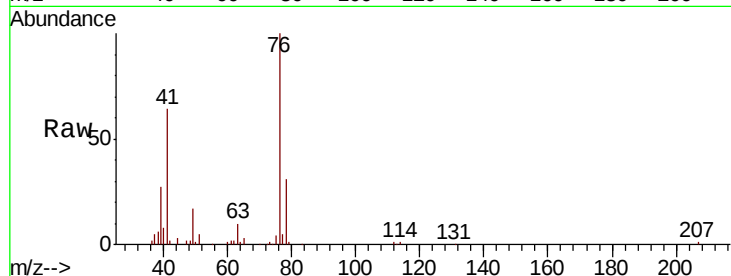
VSTDIC020

Tgt Ion: 76 Resp: 68489

Ion Ratio Lower Upper

76 100

78 30.7 26.8 40.2



#58

2-Chloroethyl Vinyl ether

Concen: 60.448 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.01 min

Lab File: VF061265.D

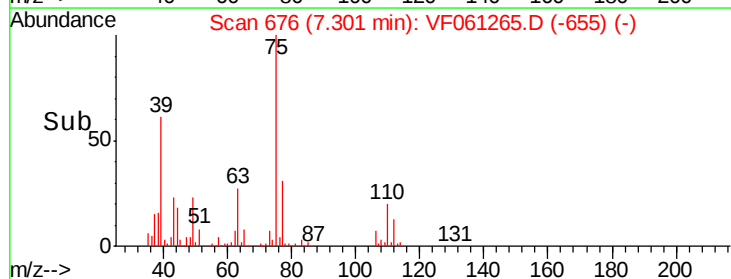
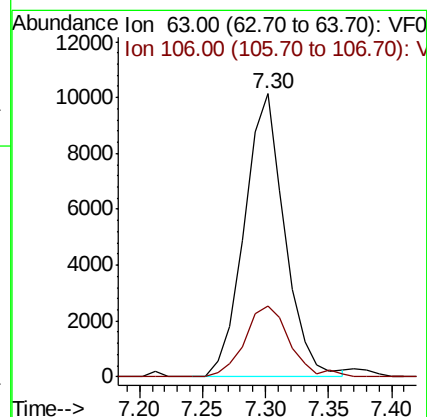
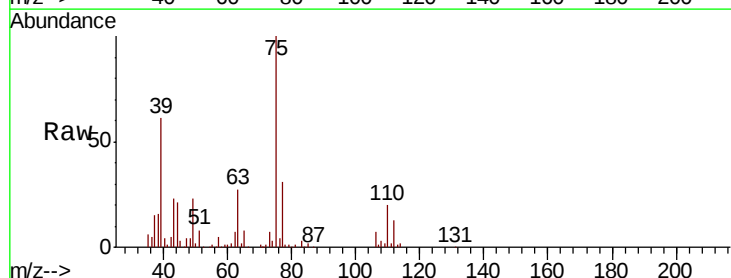
Acq: 3 Jan 2019 15:17

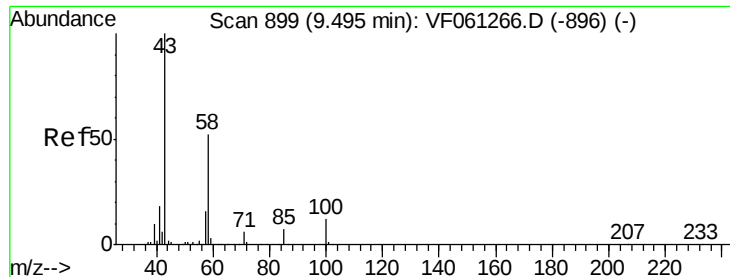
Tgt Ion: 63 Resp: 22541

Ion Ratio Lower Upper

63 100

106 25.2 19.2 28.8

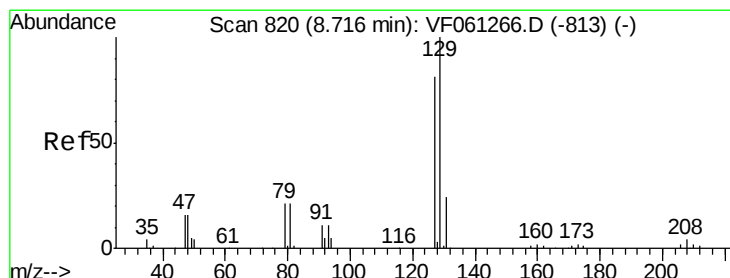
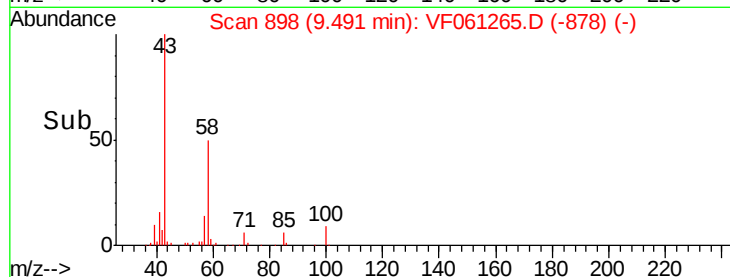
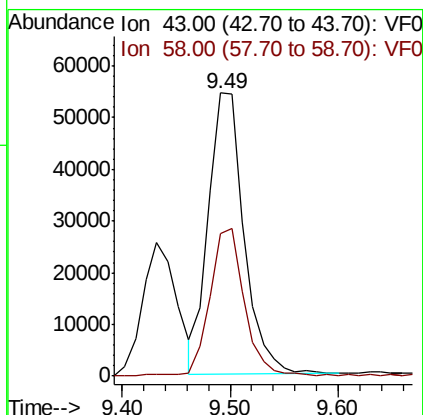
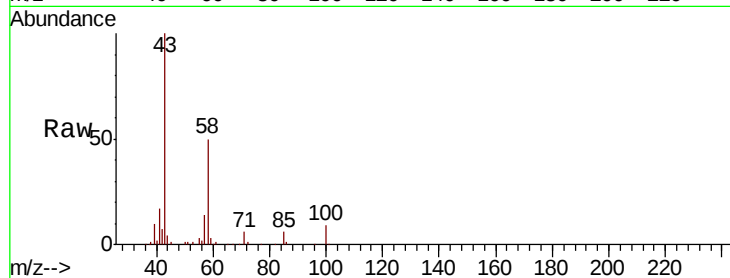




#59  
2-Hexanone  
Concen: 117.992 ug/l  
RT: 9.49 min Scan# 898  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

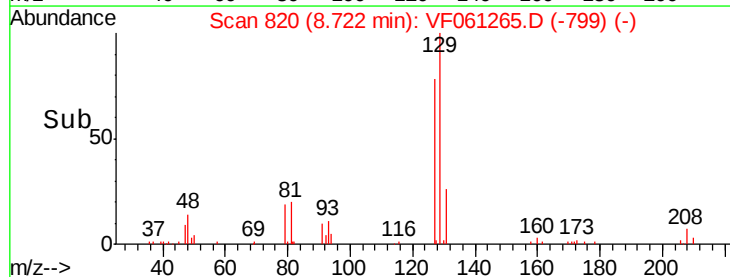
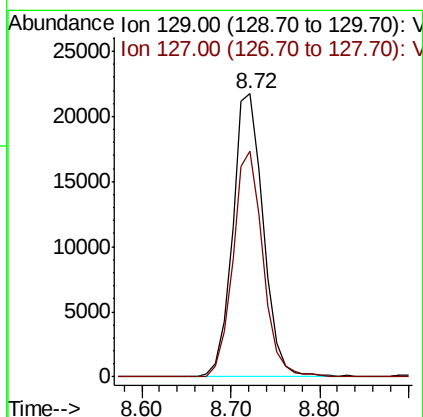
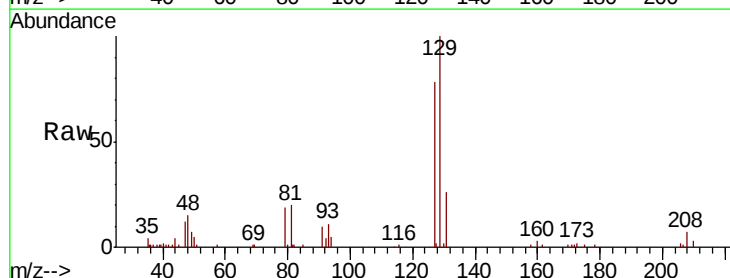
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

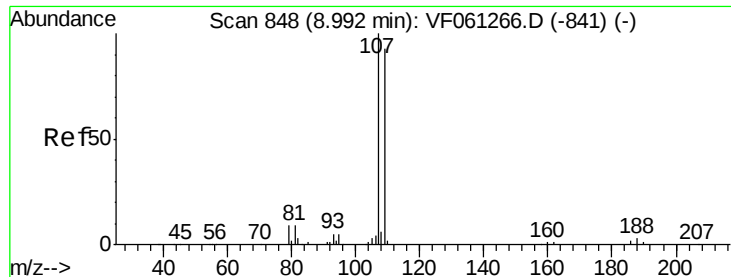
Tgt Ion: 43 Resp: 124571  
Ion Ratio Lower Upper  
43 100  
58 50.2 24.4 73.4



#60  
Dibromochloromethane  
Concen: 19.494 ug/l  
RT: 8.72 min Scan# 820  
Delta R.T. 0.01 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Tgt Ion: 129 Resp: 52122  
Ion Ratio Lower Upper  
129 100  
127 80.0 40.7 122.1





#61

1,2-Dibromoethane

Concen: 20.272 ug/l

RT: 8.99 min Scan# 847

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

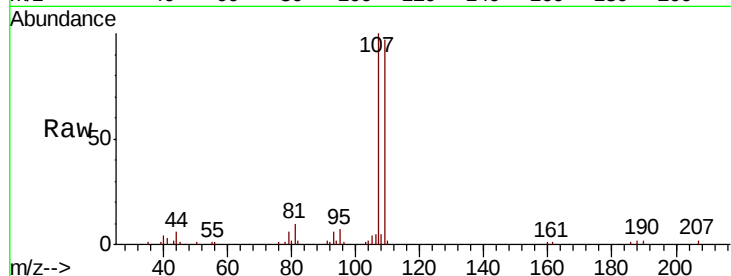
VSTDIC020

Tgt Ion:107 Resp: 40840

Ion Ratio Lower Upper

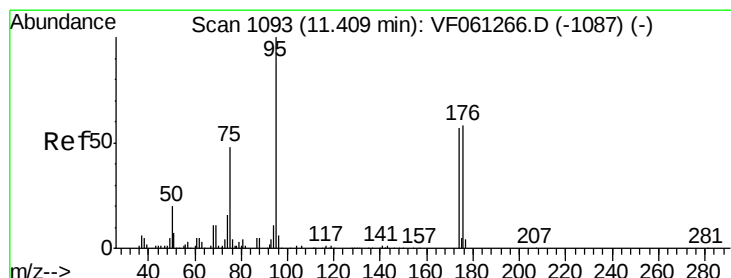
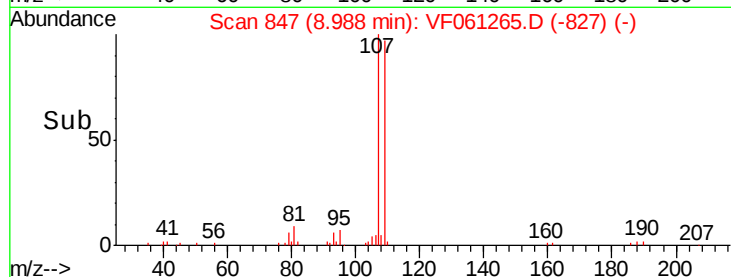
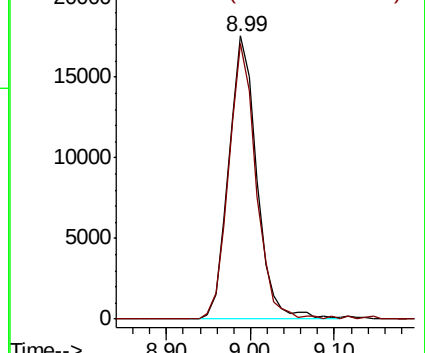
107 100

109 97.4 74.2 111.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 21.011 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

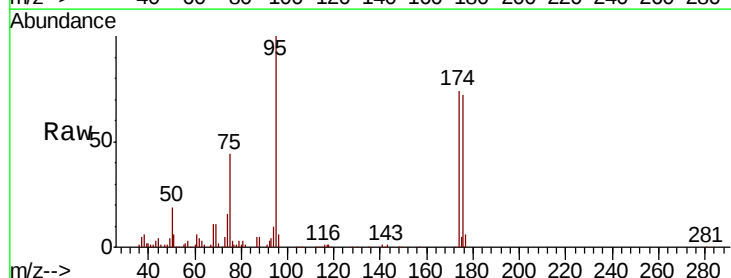
Tgt Ion: 95 Resp: 80806

Ion Ratio Lower Upper

95 100

174 74.2 0.0 113.2

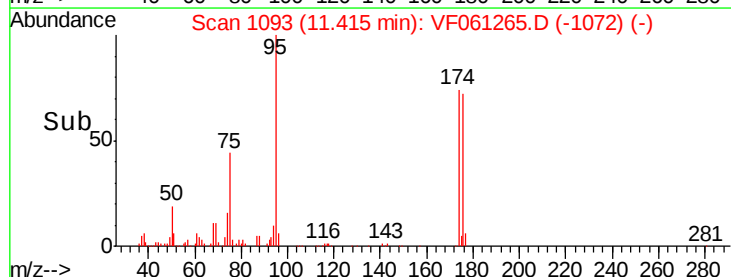
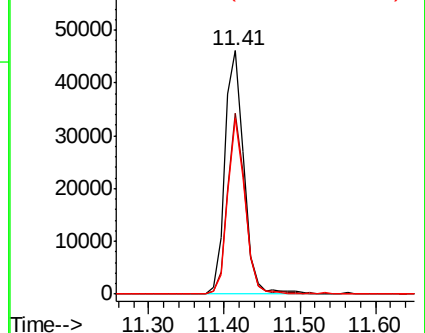
176 72.1 0.0 115.6

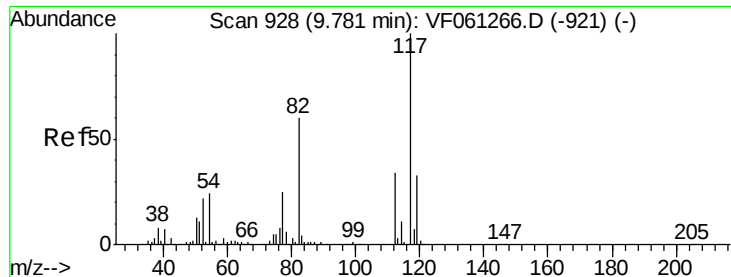


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

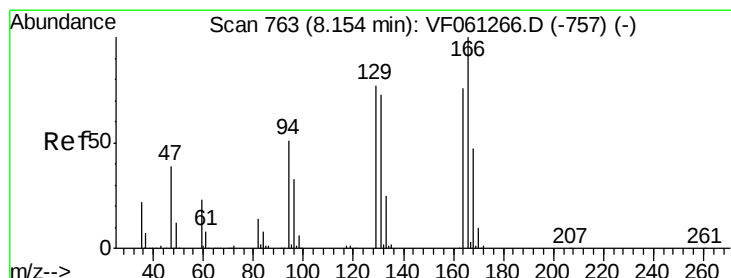
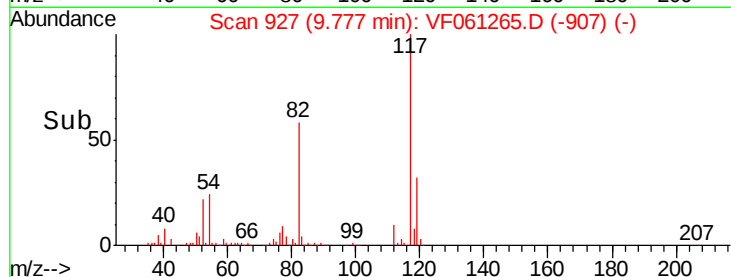
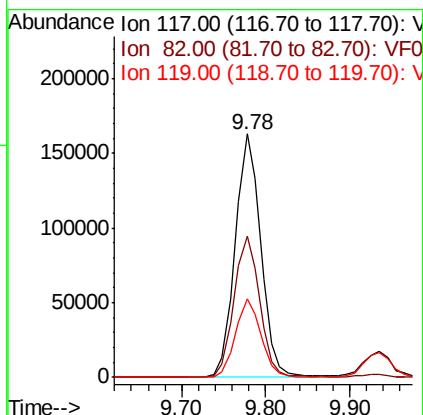
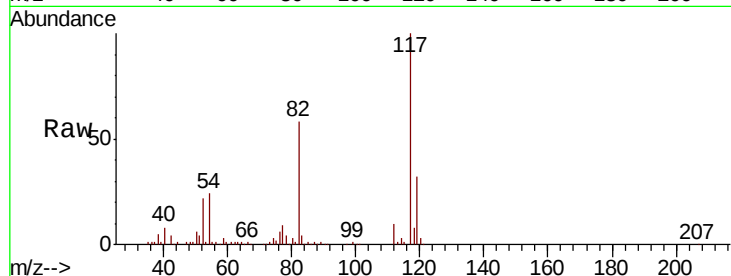




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.78 min Scan# 927  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

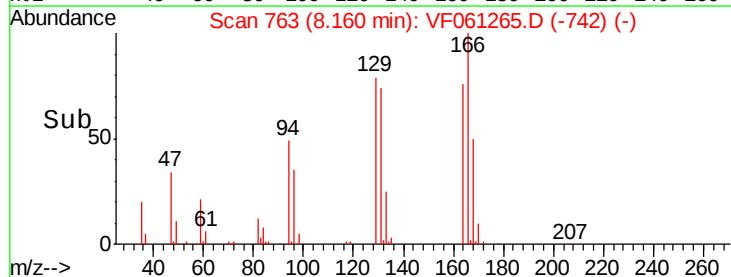
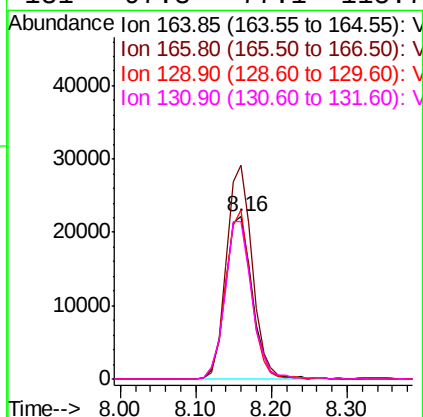
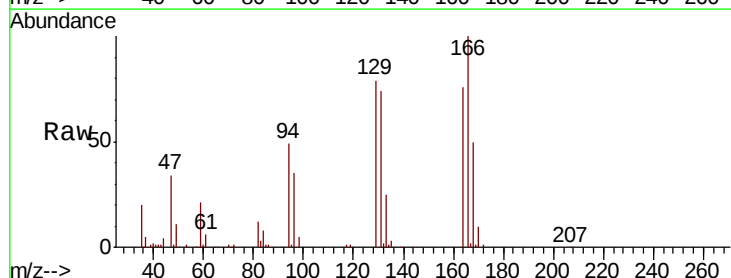
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

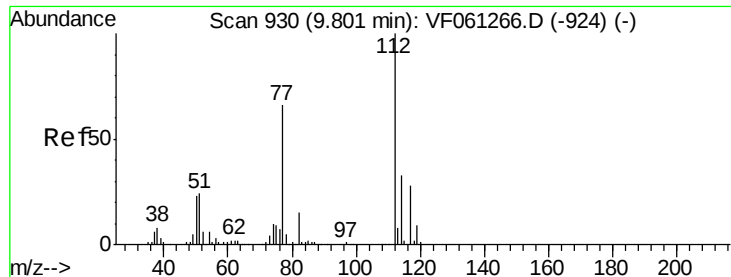
Tgt Ion:117 Resp: 347480  
Ion Ratio Lower Upper  
117 100  
82 58.0 47.8 71.6  
119 32.3 26.1 39.1



#64  
Tetrachloroethene  
Concen: 20.124 ug/l  
RT: 8.16 min Scan# 763  
Delta R.T. 0.01 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Tgt Ion:164 Resp: 54327  
Ion Ratio Lower Upper  
164 100  
166 131.7 105.1 157.7  
129 104.1 81.0 121.6  
131 97.3 77.1 115.7

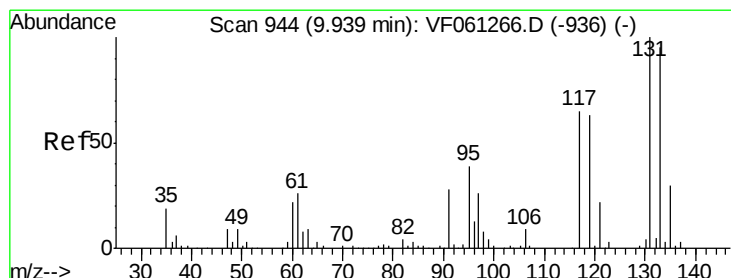
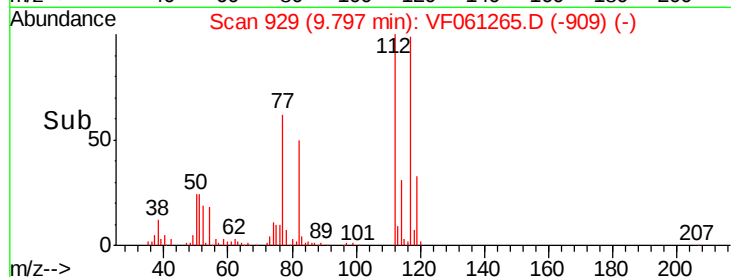
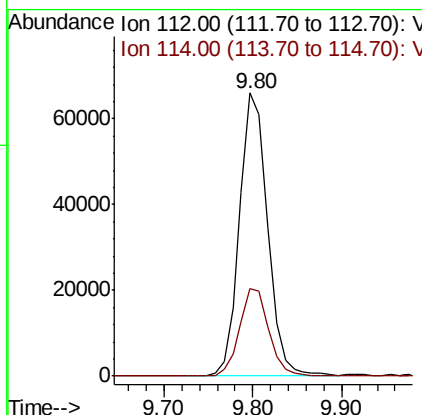
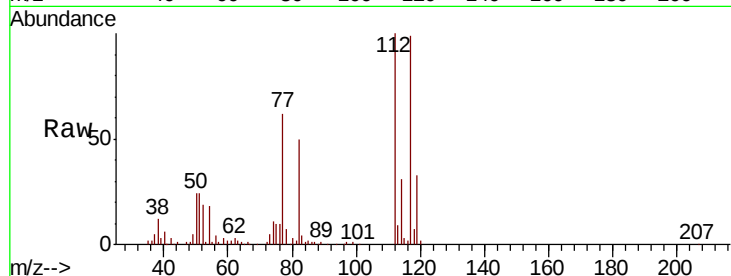




#65  
Chlorobenzene  
Concen: 19.978 ug/l  
RT: 9.80 min Scan# 929  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

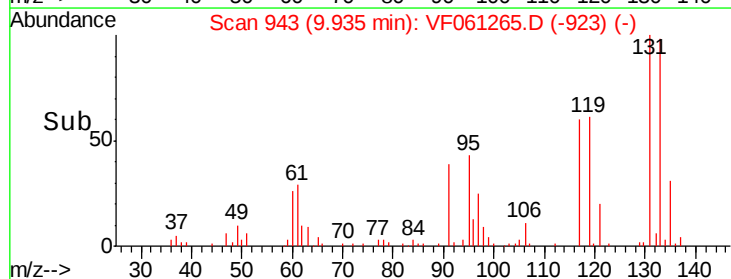
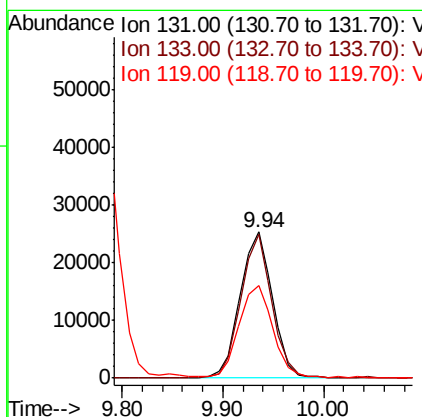
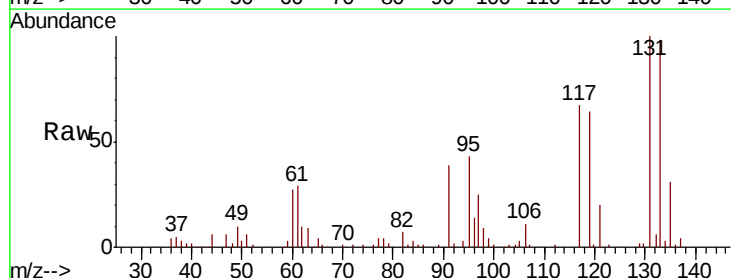
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

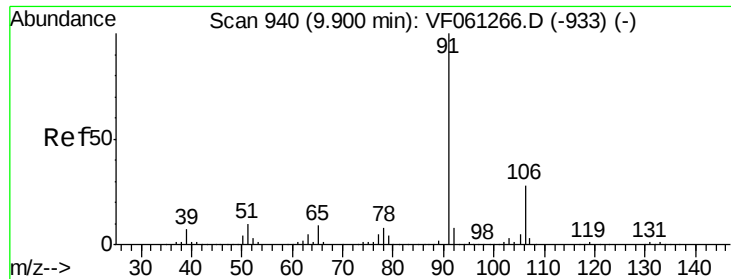
Tgt Ion:112 Resp: 145061  
Ion Ratio Lower Upper  
112 100  
114 31.0 26.4 39.6



#66  
1,1,1,2-Tetrachloroethane  
Concen: 19.145 ug/l  
RT: 9.94 min Scan# 943  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Tgt Ion:131 Resp: 56830  
Ion Ratio Lower Upper  
131 100  
133 98.3 47.5 142.5  
119 63.7 32.2 96.6

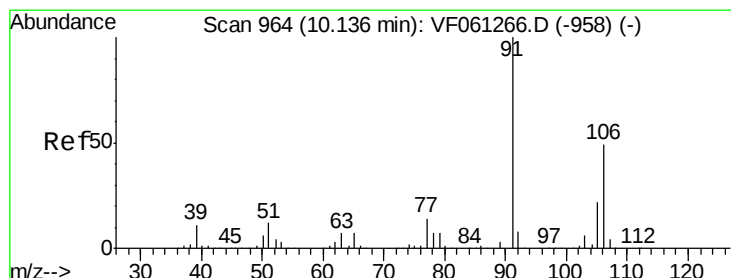
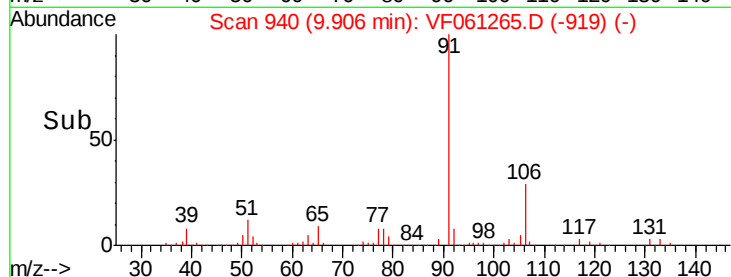
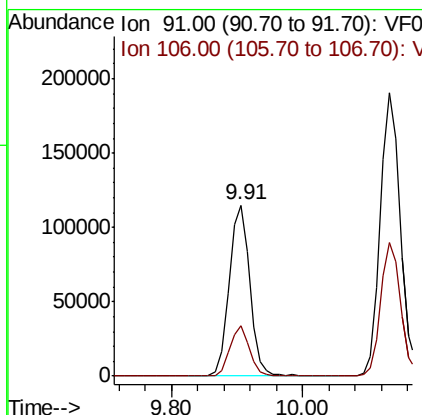
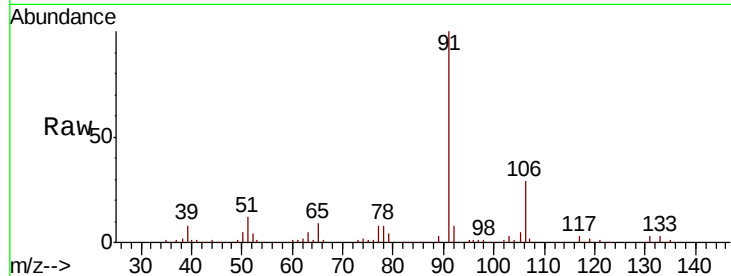




#67  
Ethyl Benzene  
Concen: 19.126 ug/l  
RT: 9.91 min Scan# 940  
Delta R.T. 0.01 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

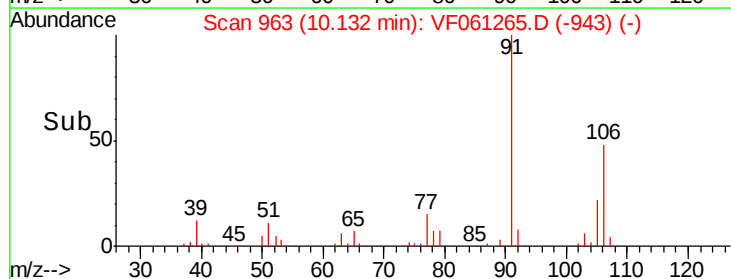
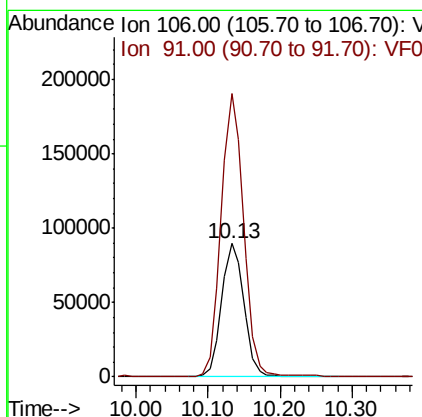
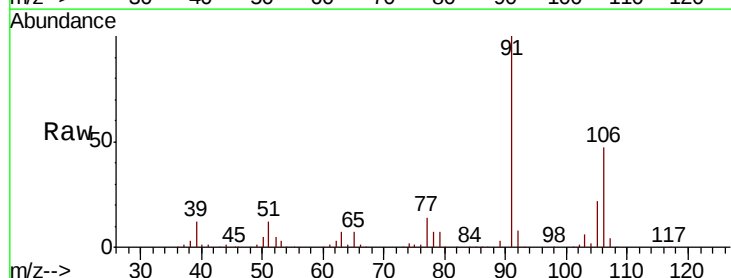
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

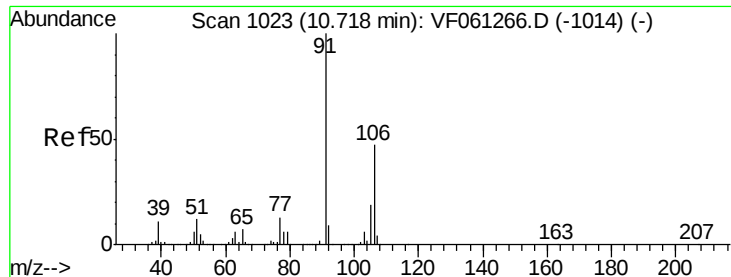
Tgt Ion: 91 Resp: 254396  
Ion Ratio Lower Upper  
91 100  
106 29.3 22.8 34.2



#68  
m/p-Xylenes  
Concen: 41.502 ug/l  
RT: 10.13 min Scan# 963  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Tgt Ion: 106 Resp: 192977  
Ion Ratio Lower Upper  
106 100  
91 212.3 164.8 247.2

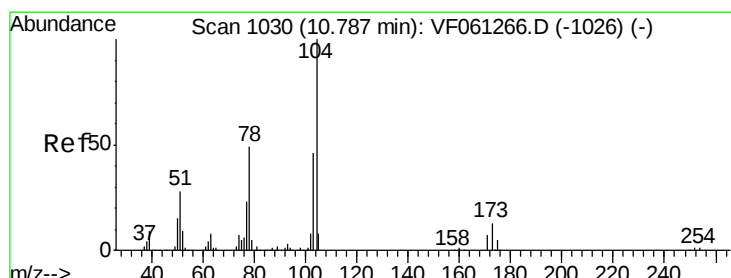
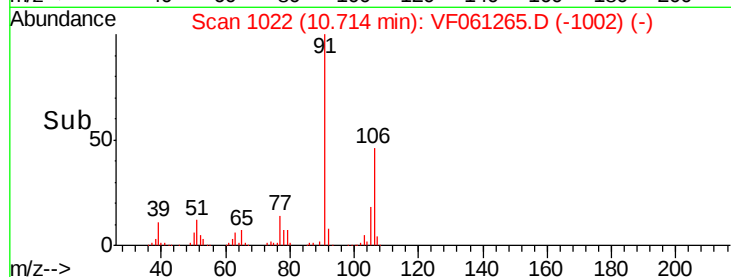
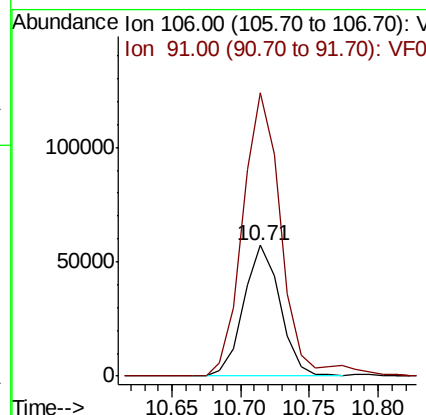
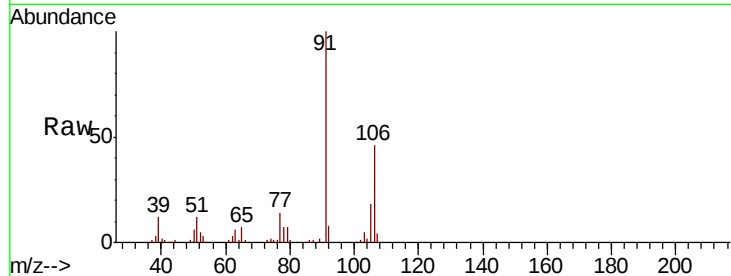




#69  
o-Xylene  
Concen: 20.401 ug/l  
RT: 10.71 min Scan# 1022  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

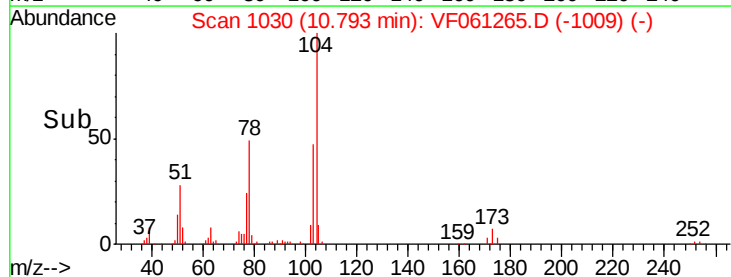
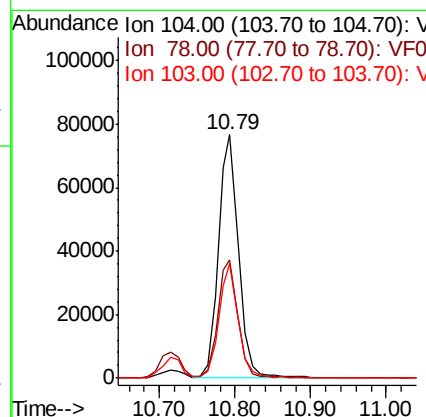
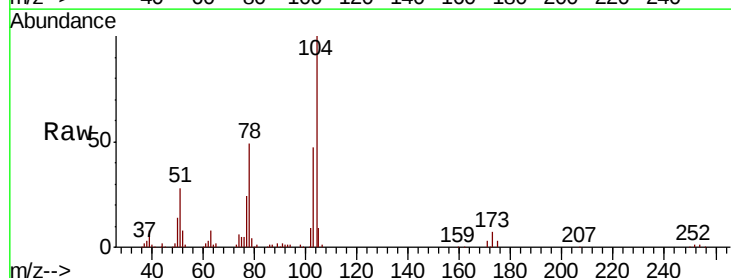
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

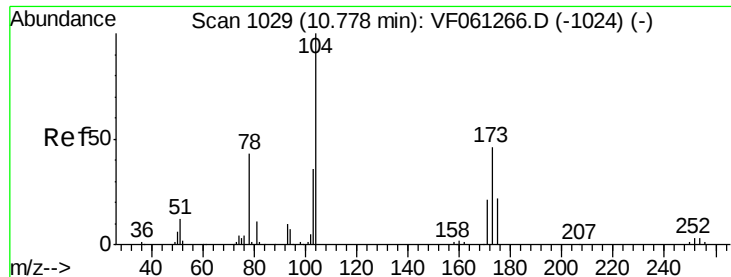
Tgt Ion:106 Resp: 106155  
Ion Ratio Lower Upper  
106 100  
91 216.4 106.2 318.5



#70  
Styrene  
Concen: 19.952 ug/l  
RT: 10.79 min Scan# 1030  
Delta R.T. 0.01 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Tgt Ion:104 Resp: 143508  
Ion Ratio Lower Upper  
104 100  
78 48.8 39.3 58.9  
103 47.1 37.3 55.9

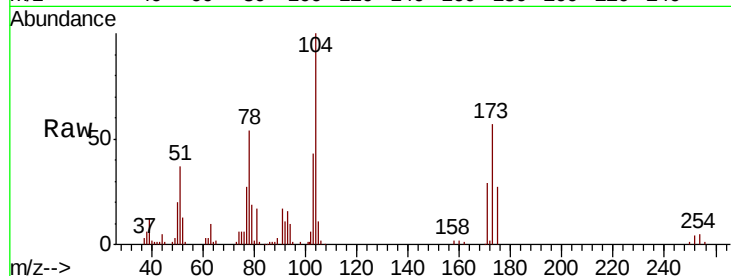




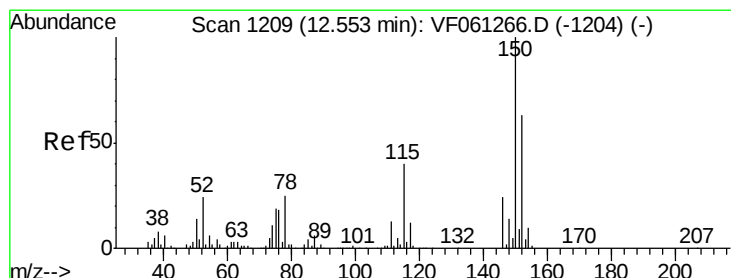
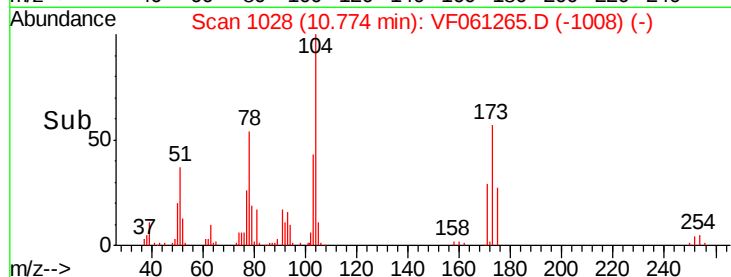
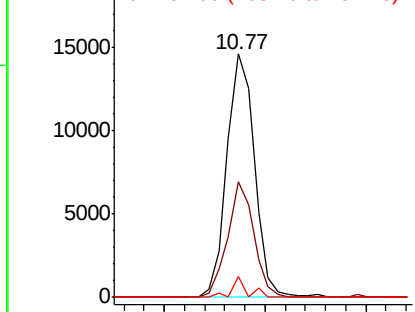
#71  
Bromoform  
Concen: 20.426 ug/l  
RT: 10.77 min Scan# 1028  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

Tgt Ion:173 Resp: 27930  
Ion Ratio Lower Upper  
173 100  
175 47.7 24.6 73.6  
254 8.8 5.3 7.9#

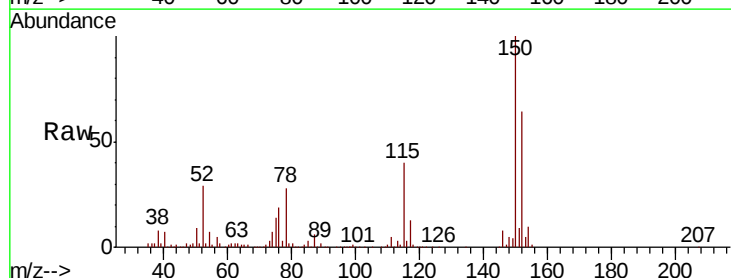


Abundance Ion 173.00 (172.70 to 173.70): V  
Ion 175.00 (174.70 to 175.70): V  
Ion 254.00 (253.70 to 254.70): V

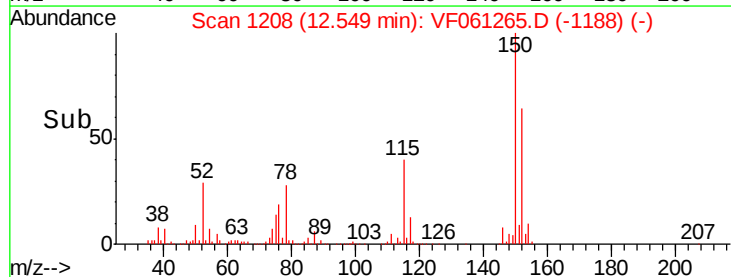
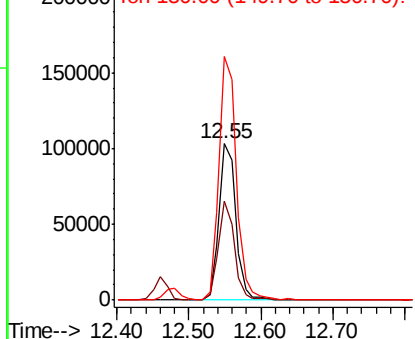


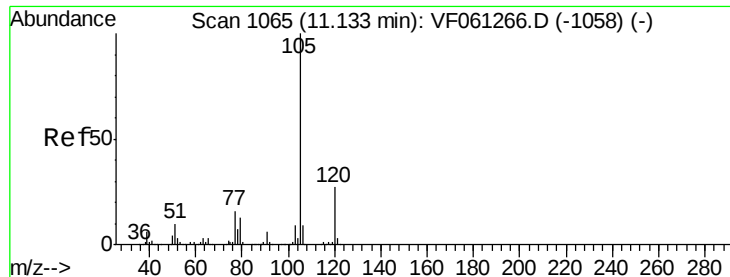
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.55 min Scan# 1208  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Tgt Ion:152 Resp: 165461  
Ion Ratio Lower Upper  
152 100  
115 63.1 31.6 94.7  
150 156.1 0.0 320.2



Abundance Ion 152.00 (151.70 to 152.70): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 21.577 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

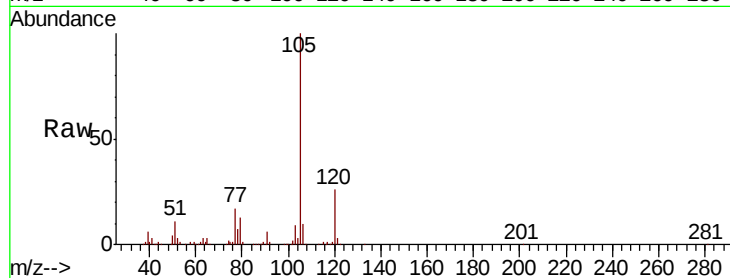
VSTDIC020

Tgt Ion:105 Resp: 307915

Ion Ratio Lower Upper

105 100

120 25.9 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.13

200000

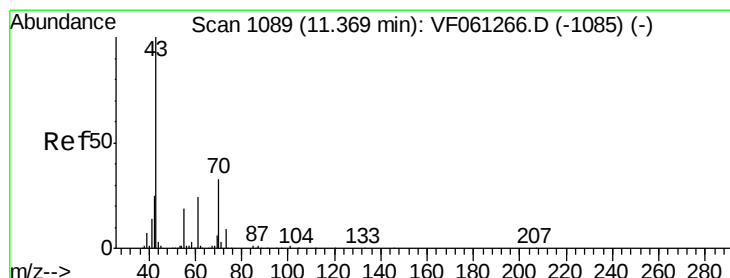
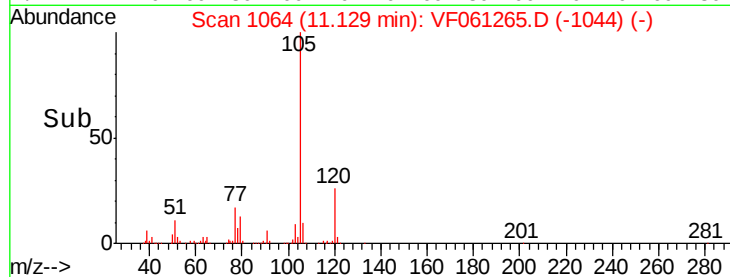
150000

100000

50000

0

Time-->



#74

N-ethyl acetate

Concen: 22.548 ug/l

RT: 11.38 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Tgt Ion: 43 Resp: 71873

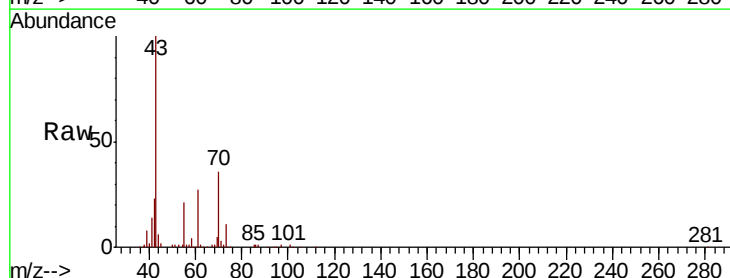
Ion Ratio Lower Upper

43 100

70 36.4 26.7 40.1

55 20.9 15.4 23.0

61 26.5 19.4 29.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

11.38

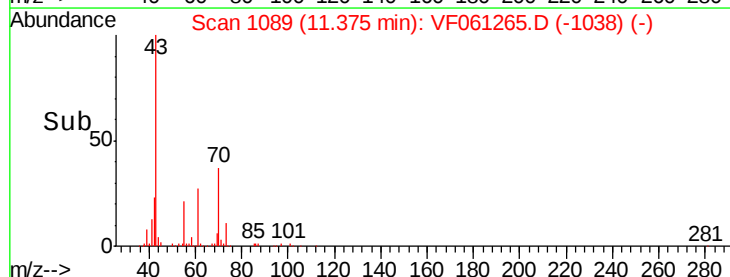
60000

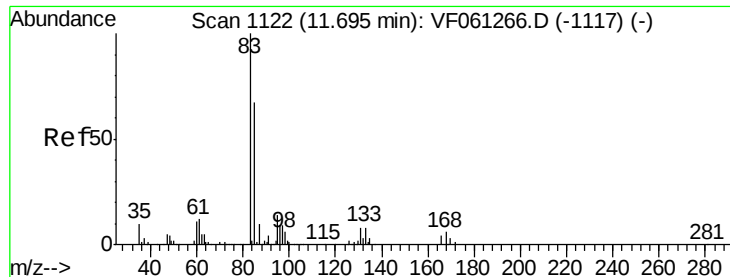
40000

20000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 21.783 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

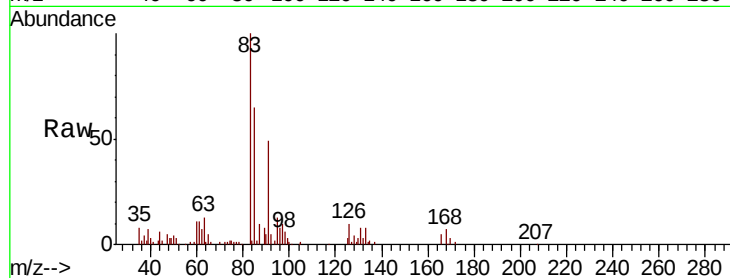
Tgt Ion: 83 Resp: 51016

Ion Ratio Lower Upper

83 100

131 8.2 4.0 12.0

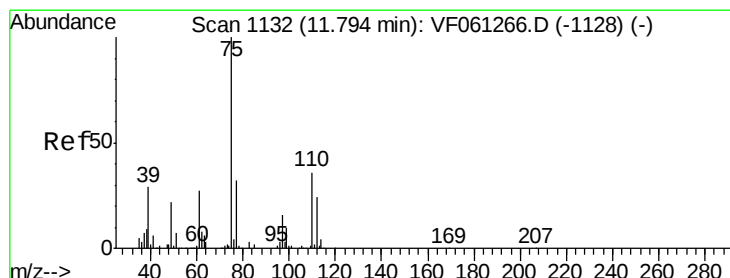
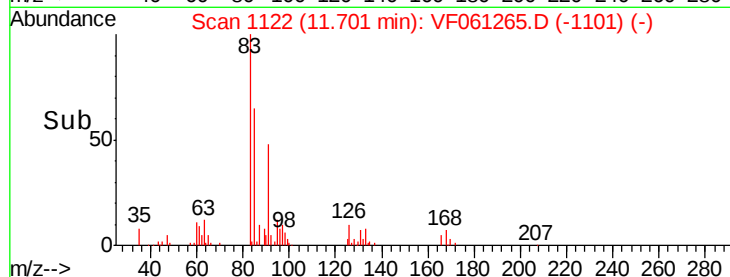
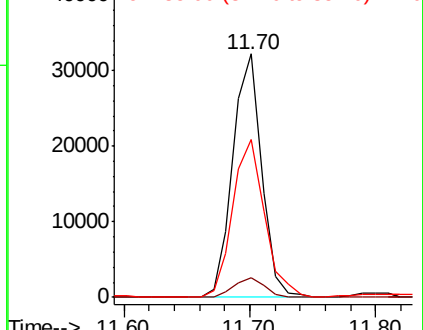
85 65.0 33.6 100.8



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 21.508 ug/l

RT: 11.80 min Scan# 1132

Delta R.T. 0.01 min

Lab File: VF061265.D

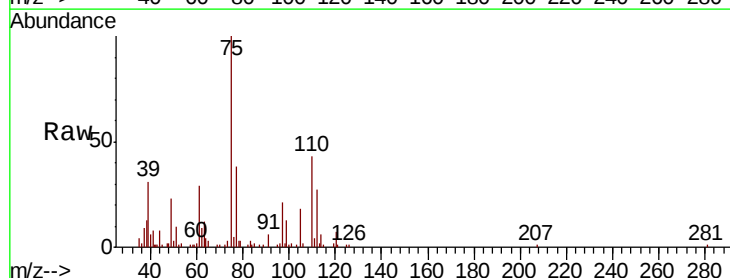
Acq: 3 Jan 2019 15:17

Tgt Ion: 75 Resp: 37516

Ion Ratio Lower Upper

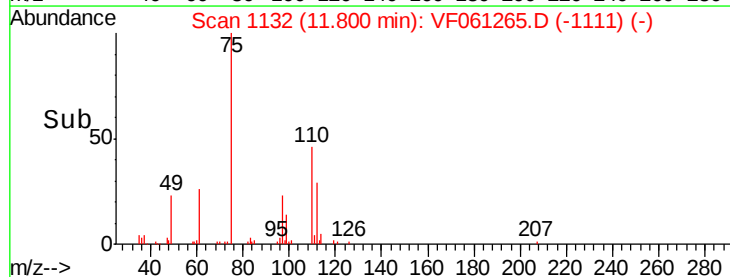
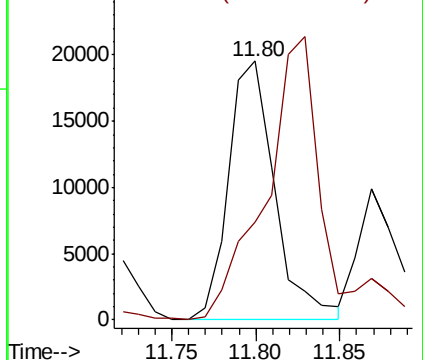
75 100

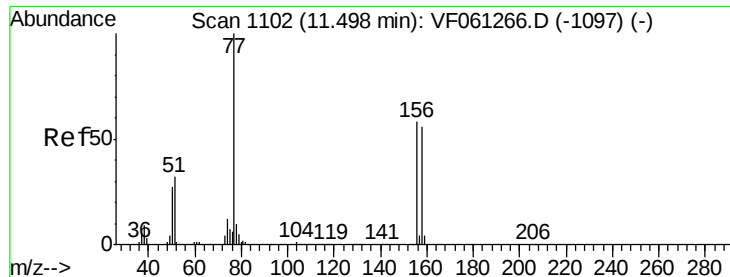
77 37.8 15.9 47.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

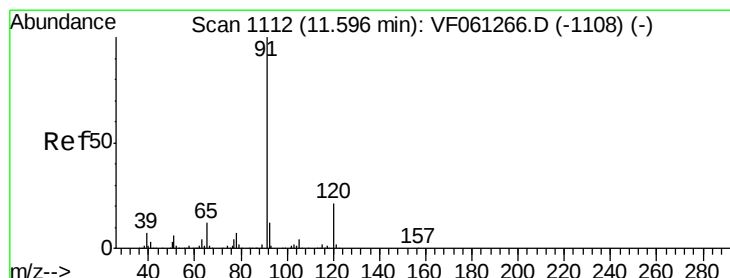
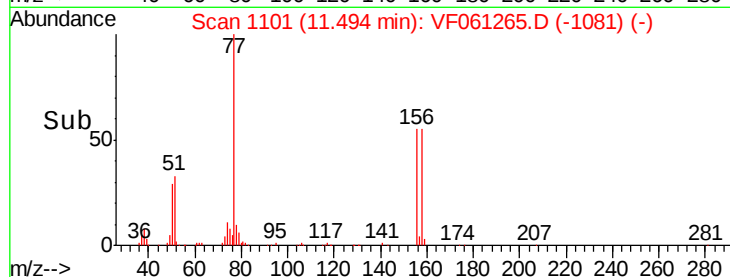
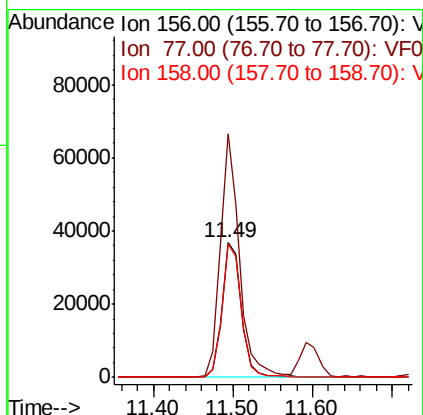
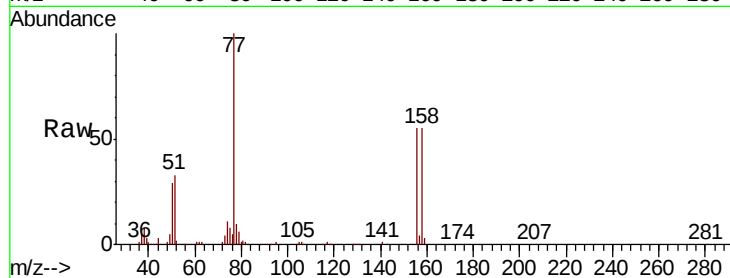




#77  
Bromobenzene  
Concen: 20.681 ug/l  
RT: 11.49 min Scan# 1101  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

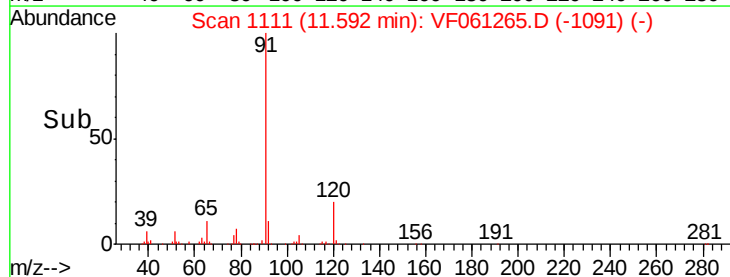
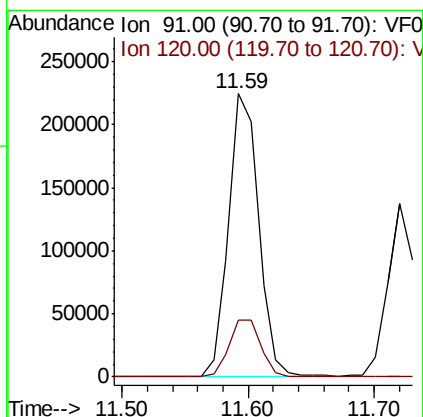
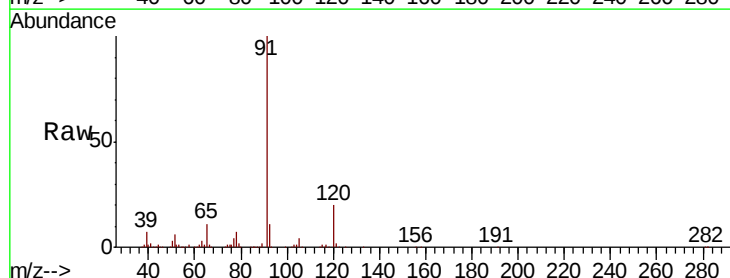
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

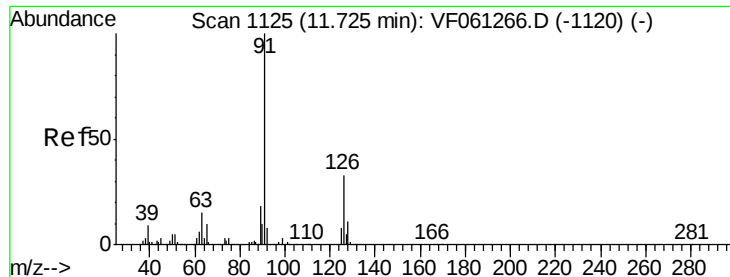
Tgt Ion:156 Resp: 63153  
Ion Ratio Lower Upper  
156 100  
77 181.0 85.8 257.3  
158 98.8 47.6 142.8



#78  
n-propylbenzene  
Concen: 22.048 ug/l  
RT: 11.59 min Scan# 1111  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Tgt Ion: 91 Resp: 369747  
Ion Ratio Lower Upper  
91 100  
120 20.2 10.6 31.8

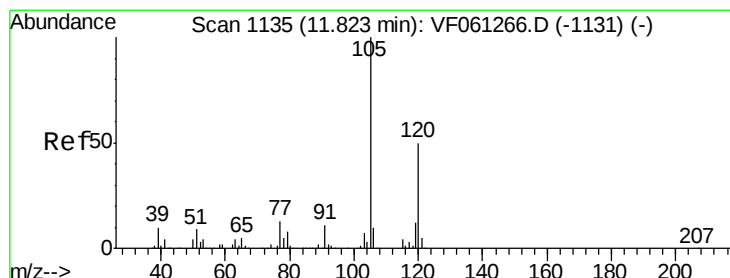
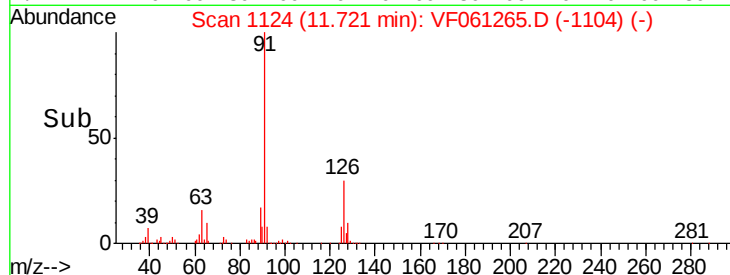
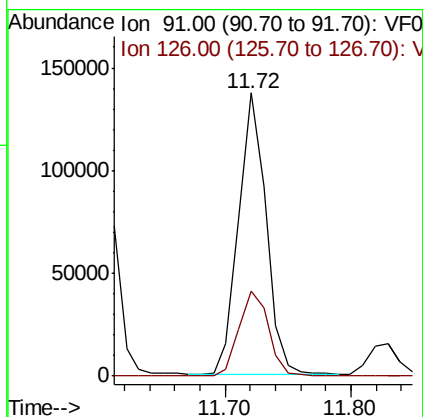
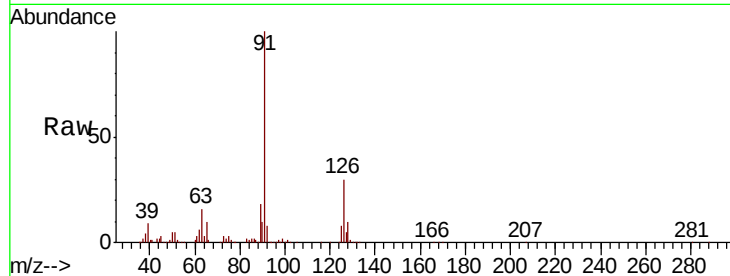




#79  
 2-Chlorotoluene  
 Concen: 21.282 ug/l  
 RT: 11.72 min Scan# 1124  
 Delta R.T. -0.00 min  
 Lab File: VF061265.D  
 Acq: 3 Jan 2019 15:17

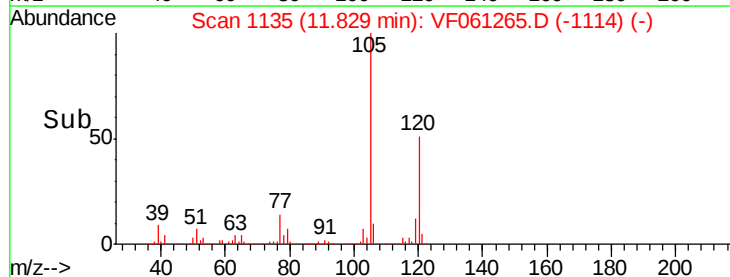
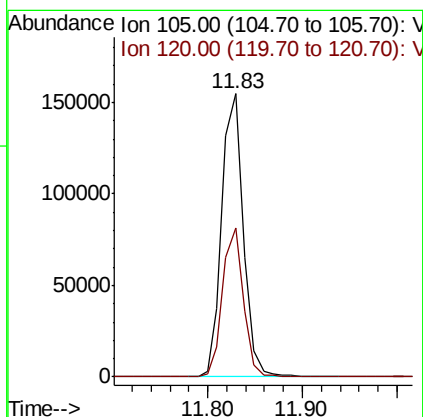
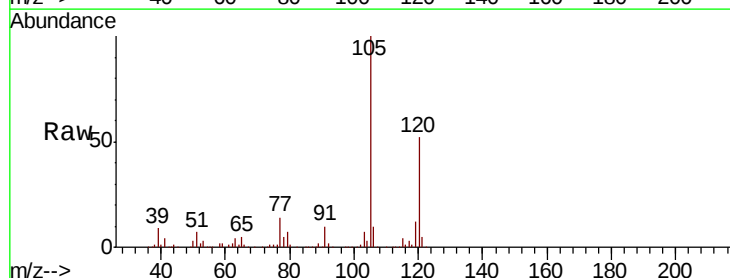
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

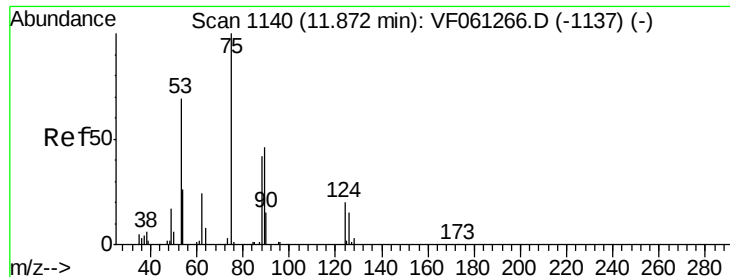
Tgt Ion: 91 Resp: 207261  
 Ion Ratio Lower Upper  
 91 100  
 126 29.9 16.3 48.8



#80  
 1,3,5-Trimethylbenzene  
 Concen: 21.038 ug/l  
 RT: 11.83 min Scan# 1135  
 Delta R.T. 0.01 min  
 Lab File: VF061265.D  
 Acq: 3 Jan 2019 15:17

Tgt Ion: 105 Resp: 245399  
 Ion Ratio Lower Upper  
 105 100  
 120 52.4 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 28.076 ug/l

RT: 11.87 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

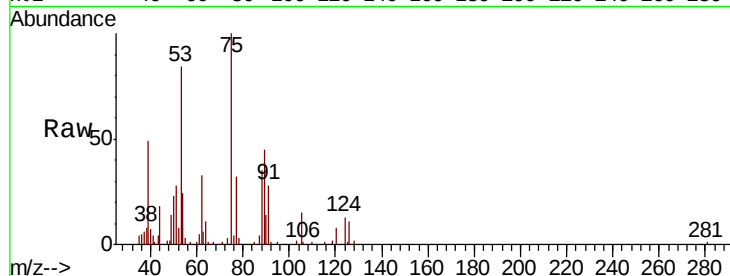
Tgt Ion: 75 Resp: 21382

Ion Ratio Lower Upper

75 100

53 83.8 61.7 92.5

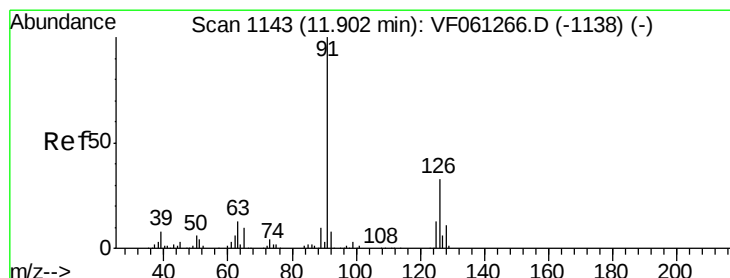
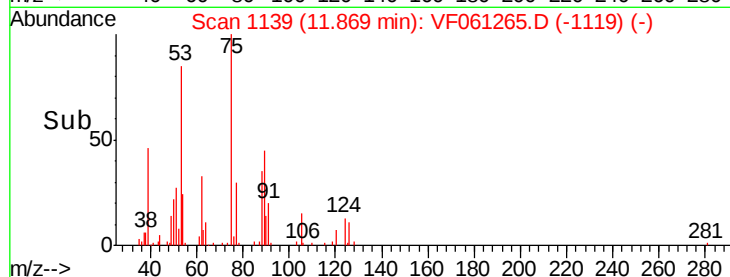
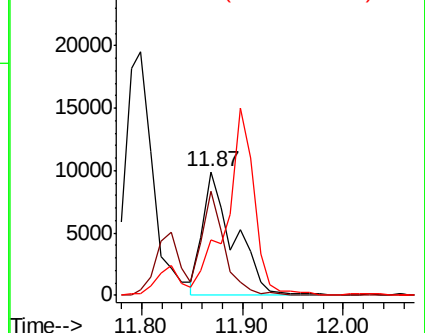
89 44.6 40.3 60.5



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 21.202 ug/l

RT: 11.90 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF061265.D

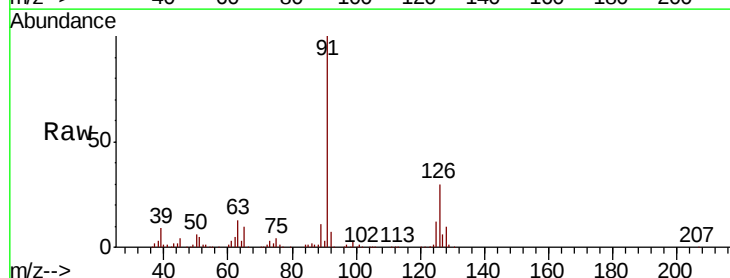
Acq: 3 Jan 2019 15:17

Tgt Ion: 91 Resp: 214577

Ion Ratio Lower Upper

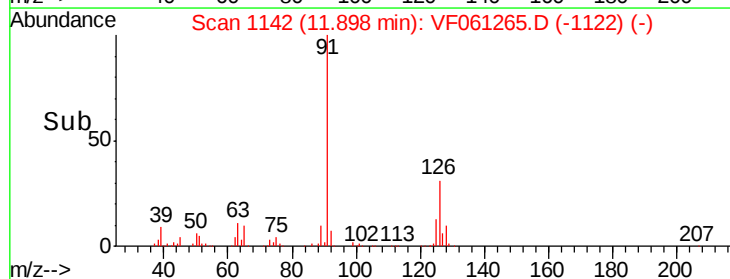
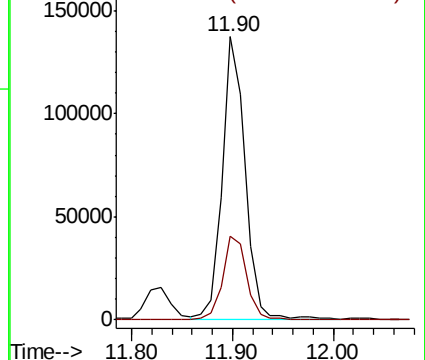
91 100

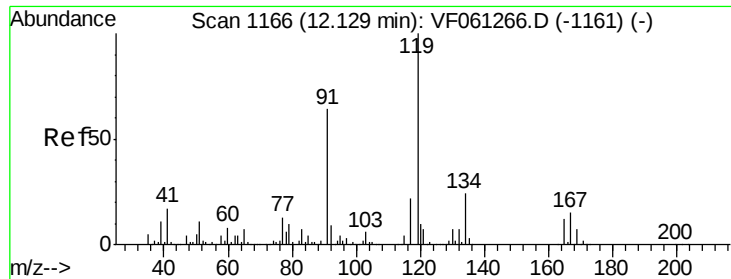
126 29.6 16.3 48.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

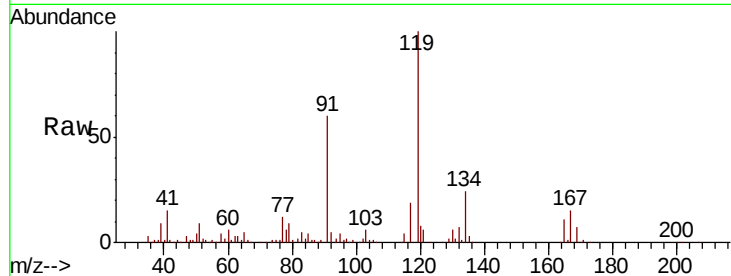




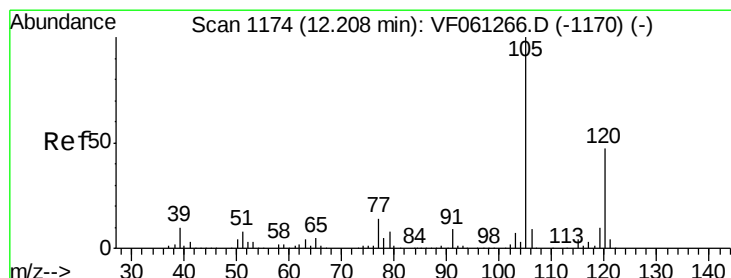
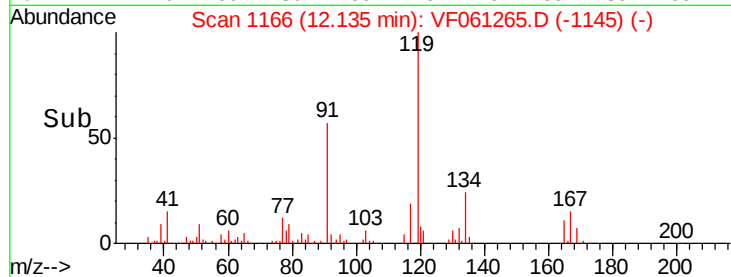
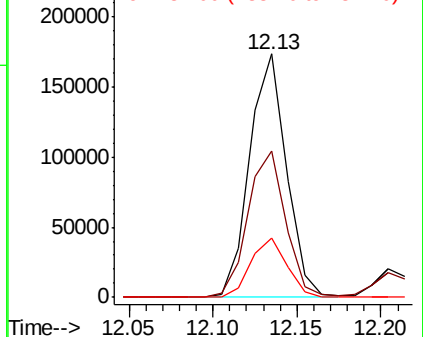
#83  
 tert-Butylbenzene  
 Concen: 22.067 ug/l  
 RT: 12.13 min Scan# 1166  
 Delta R.T. 0.01 min  
 Lab File: VF061265.D  
 Acq: 3 Jan 2019 15:17

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

Tgt Ion:119 Resp: 264645  
 Ion Ratio Lower Upper  
 119 100  
 91 60.2 32.0 96.0  
 134 24.3 12.1 36.3

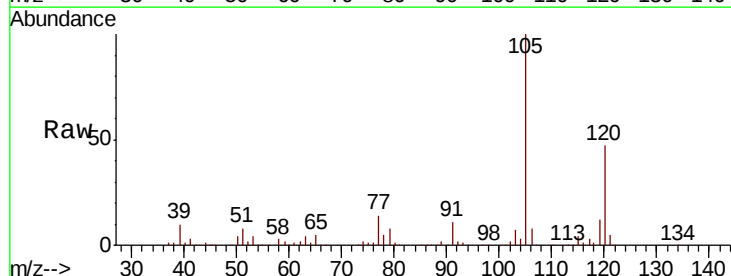


Abundance Ion 119.00 (118.70 to 119.70): V  
 Ion 91.00 (90.70 to 91.70): VF0  
 Ion 134.00 (133.70 to 134.70): V

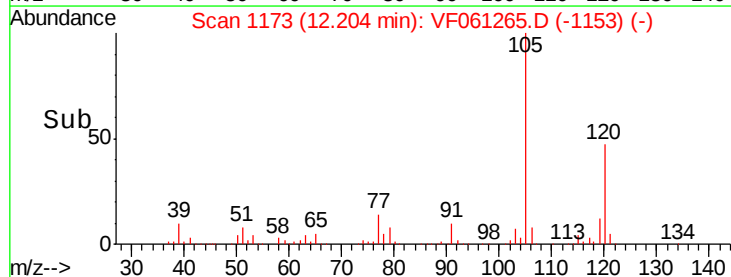
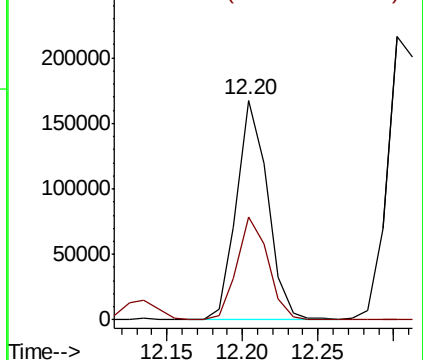


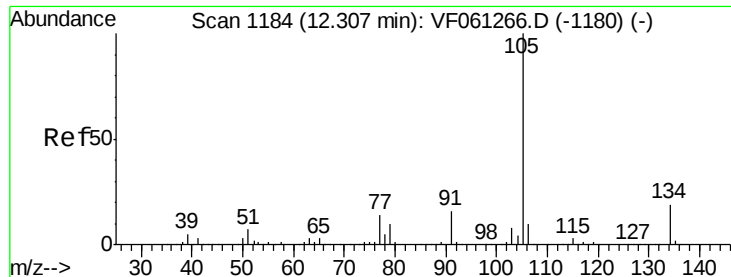
#84  
 1,2,4-Trimethylbenzene  
 Concen: 20.833 ug/l  
 RT: 12.20 min Scan# 1173  
 Delta R.T. -0.00 min  
 Lab File: VF061265.D  
 Acq: 3 Jan 2019 15:17

Tgt Ion:105 Resp: 242367  
 Ion Ratio Lower Upper  
 105 100  
 120 46.7 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): V  
 Ion 120.00 (119.70 to 120.70): V

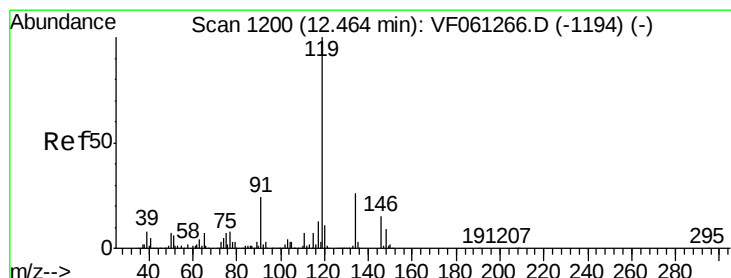
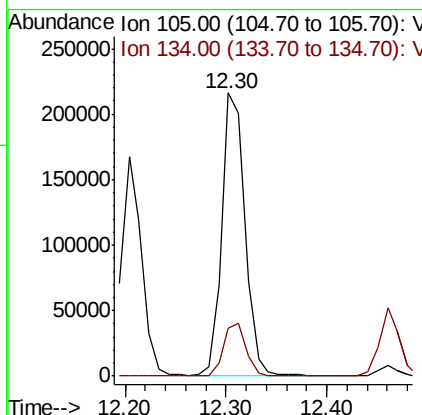
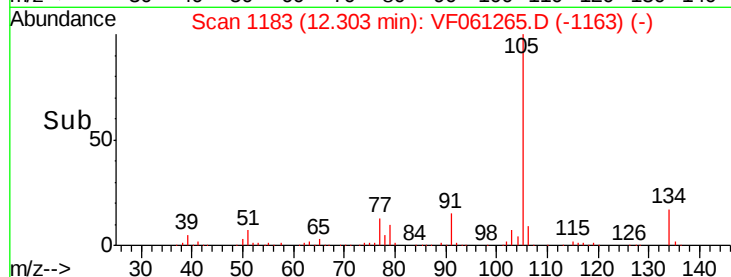
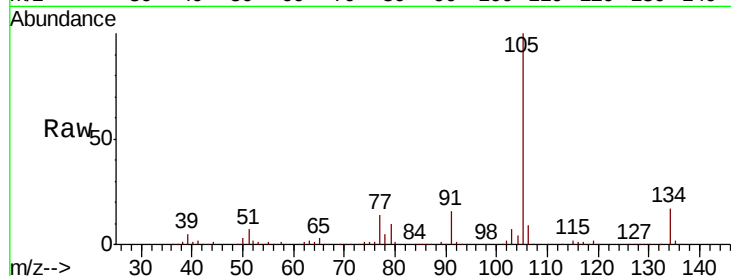




#85  
 sec-Butylbenzene  
 Concen: 21.868 ug/l  
 RT: 12.30 min Scan# 1183  
 Delta R.T. -0.00 min  
 Lab File: VF061265.D  
 Acq: 3 Jan 2019 15:17

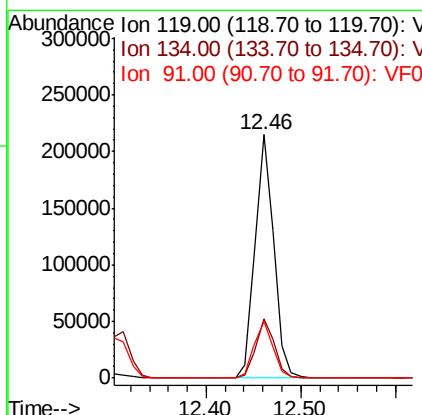
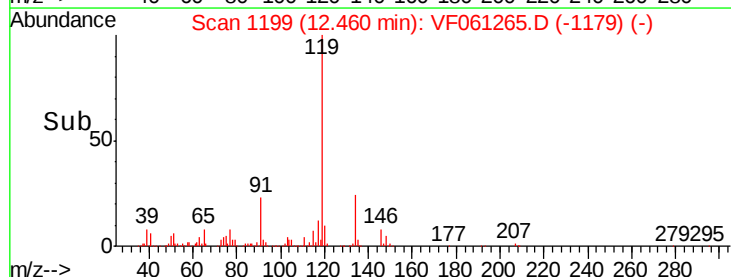
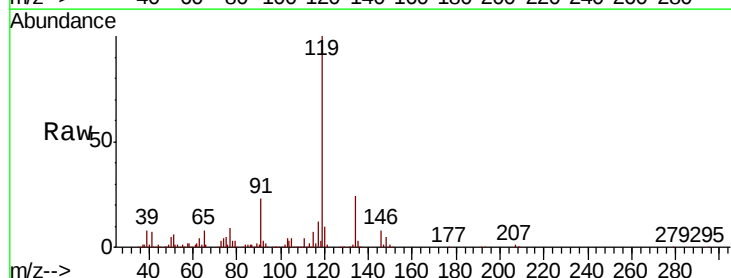
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 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

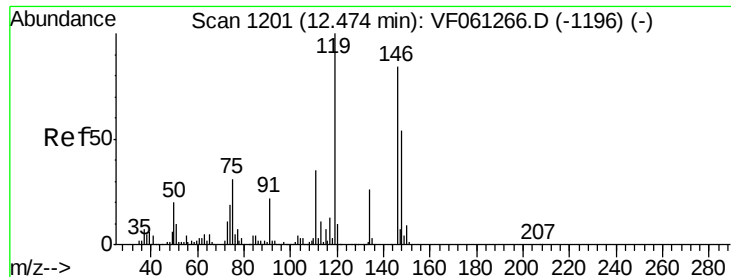
Tgt Ion:105 Resp: 344936  
 Ion Ratio Lower Upper  
 105 100  
 134 17.1 9.4 28.2



#86  
 p-Isopropyltoluene  
 Concen: 22.510 ug/l  
 RT: 12.46 min Scan# 1199  
 Delta R.T. -0.00 min  
 Lab File: VF061265.D  
 Acq: 3 Jan 2019 15:17

Tgt Ion:119 Resp: 295256  
 Ion Ratio Lower Upper  
 119 100  
 134 24.4 13.2 39.6  
 91 23.5 11.9 35.7

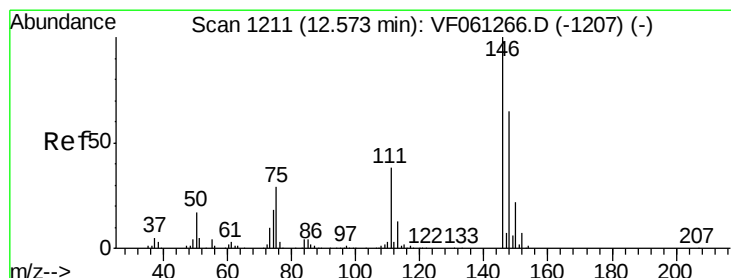
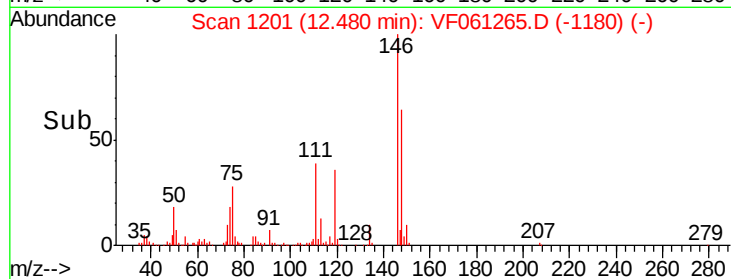
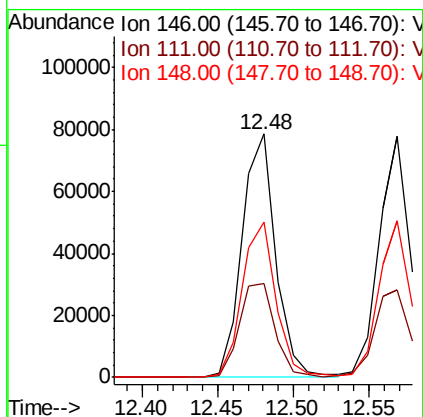
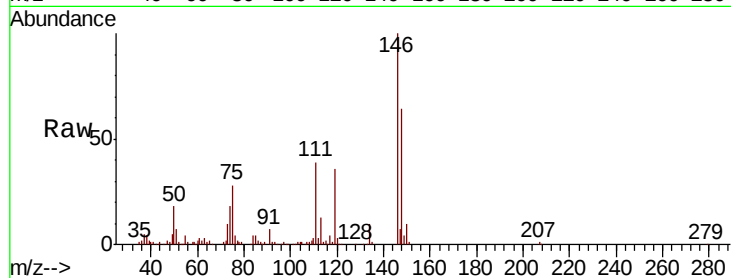




#87  
 1,3-Dichlorobenzene  
 Concen: 21.049 ug/l  
 RT: 12.48 min Scan# 1201  
 Delta R.T. 0.01 min  
 Lab File: VF061265.D  
 Acq: 3 Jan 2019 15:17

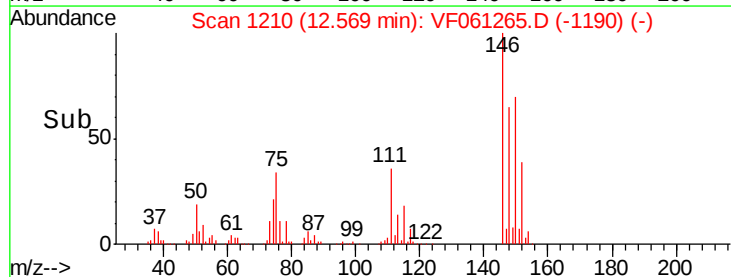
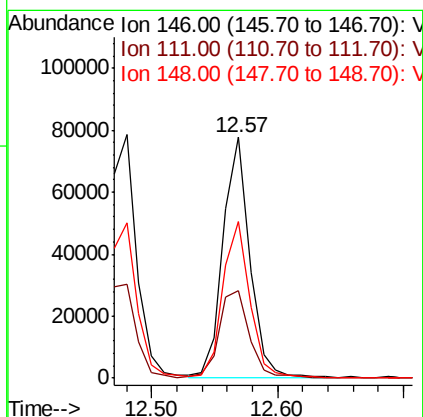
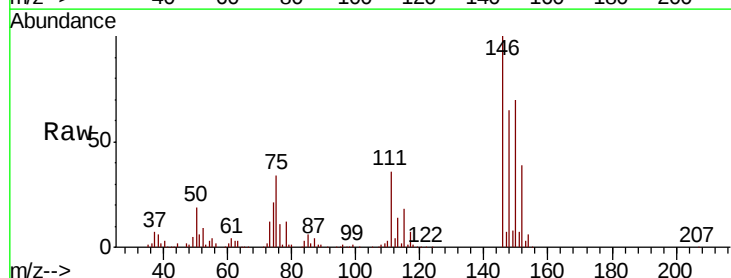
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 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

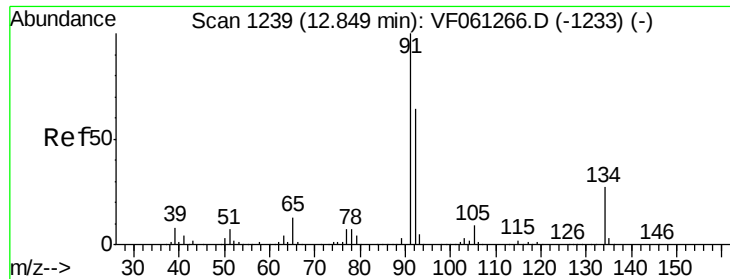
Tgt Ion:146 Resp: 121798  
 Ion Ratio Lower Upper  
 146 100  
 111 38.6 20.9 62.8  
 148 63.8 32.5 97.4



#88  
 1,4-Dichlorobenzene  
 Concen: 20.106 ug/l  
 RT: 12.57 min Scan# 1210  
 Delta R.T. -0.00 min  
 Lab File: VF061265.D  
 Acq: 3 Jan 2019 15:17

Tgt Ion:146 Resp: 114032  
 Ion Ratio Lower Upper  
 146 100  
 111 36.2 19.3 57.9  
 148 65.2 32.6 98.0

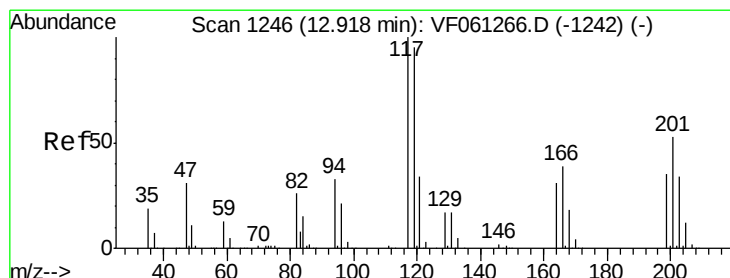
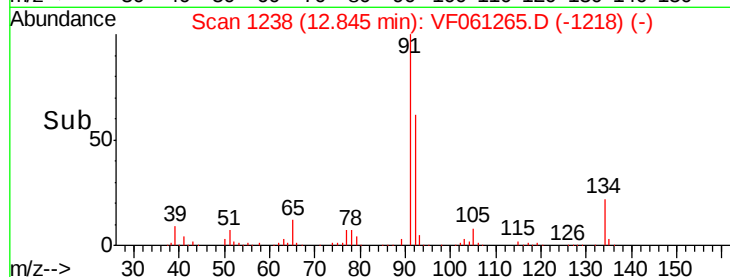
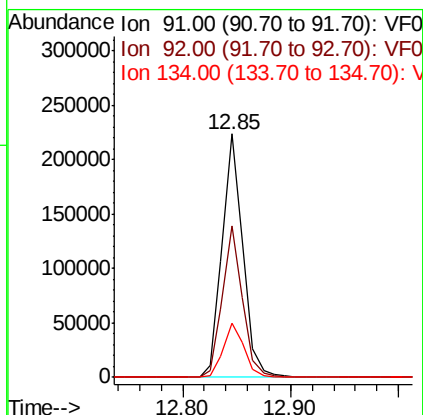
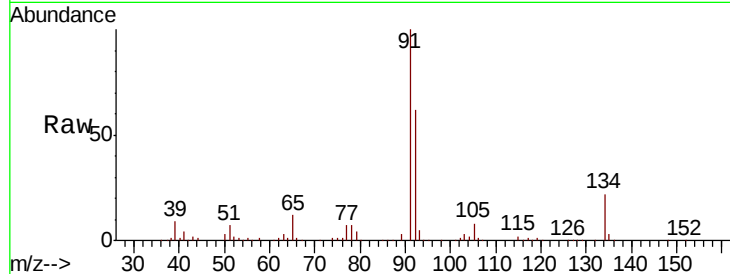




#89  
n-Butylbenzene  
Concen: 22.012 ug/l  
RT: 12.85 min Scan# 1238  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

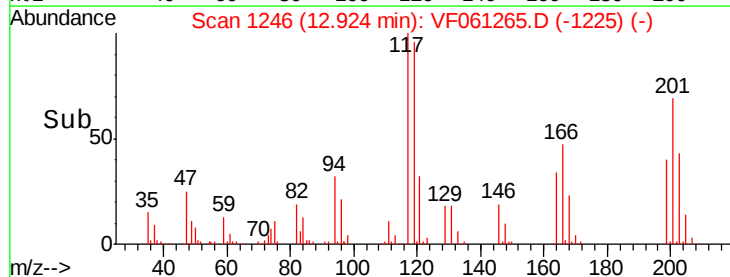
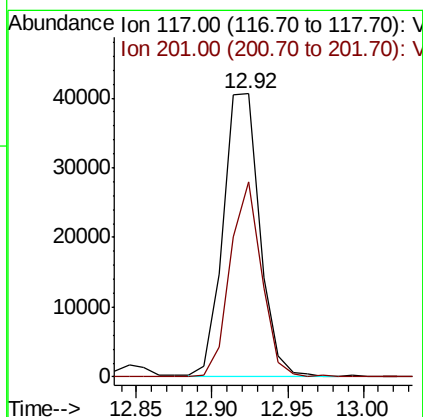
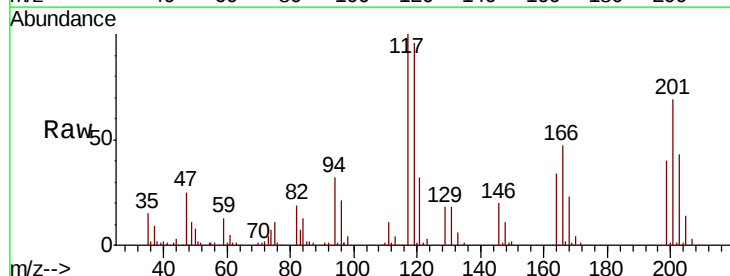
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

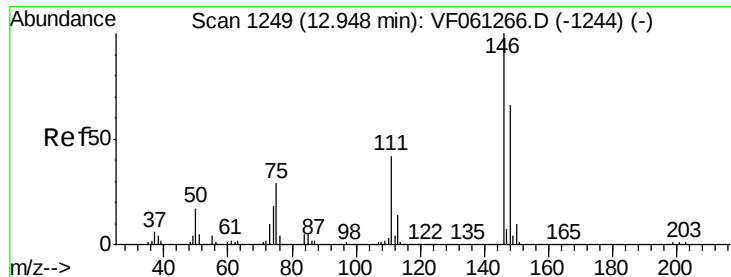
Tgt Ion: 91 Resp: 298200  
Ion Ratio Lower Upper  
91 100  
92 62.0 31.9 95.7  
134 22.3 13.6 40.7



#90  
Hexachloroethane  
Concen: 21.034 ug/l  
RT: 12.92 min Scan# 1246  
Delta R.T. 0.01 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Tgt Ion: 117 Resp: 68097  
Ion Ratio Lower Upper  
117 100  
201 68.8 26.6 79.7

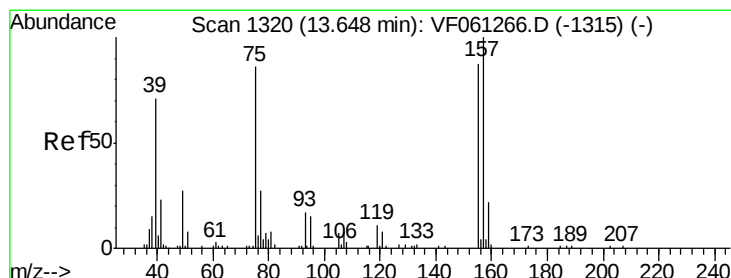
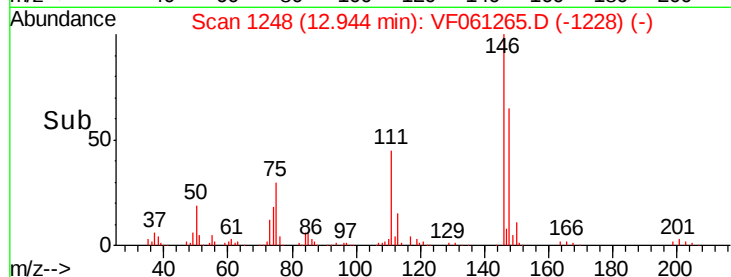
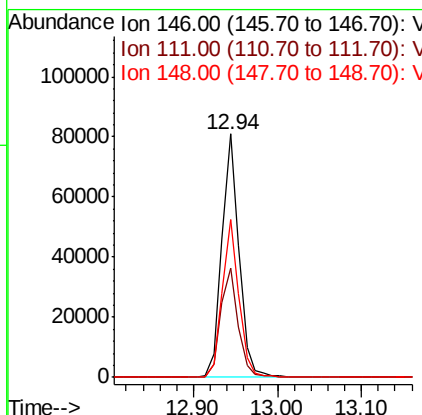
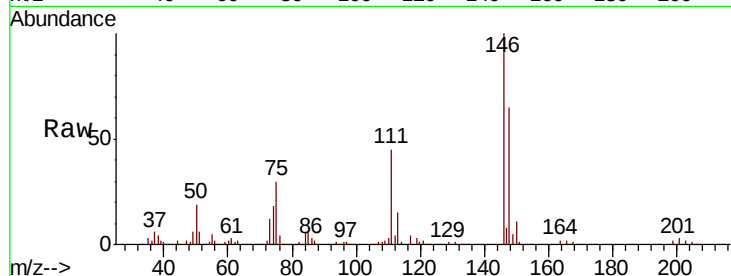




#91  
 1,2-Dichlorobenzene  
 Concen: 21.219 ug/l  
 RT: 12.94 min Scan# 1248  
 Delta R.T. -0.00 min  
 Lab File: VF061265.D  
 Acq: 3 Jan 2019 15:17

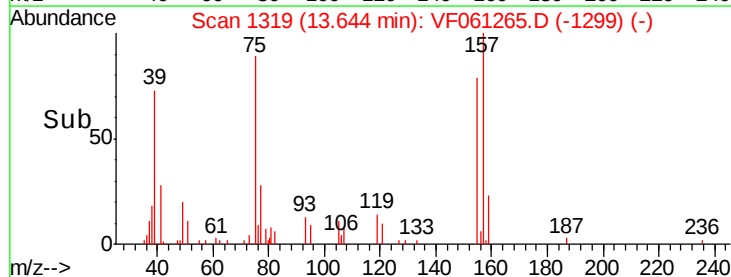
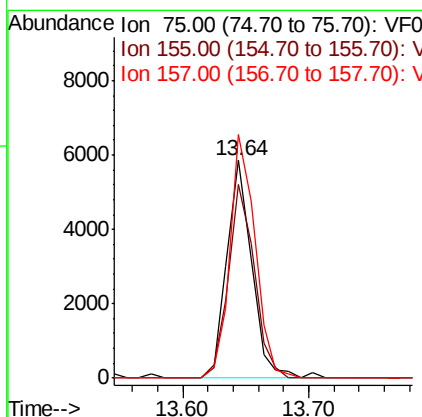
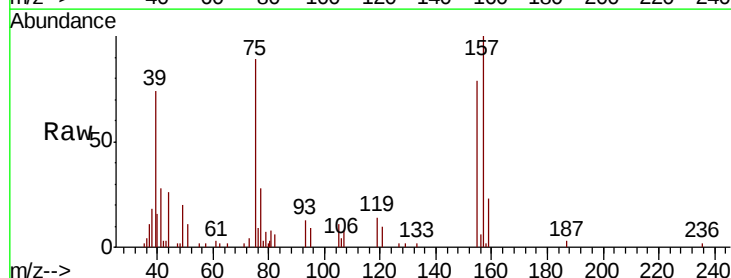
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

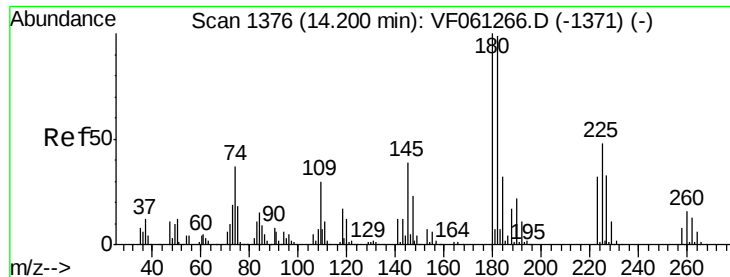
Tgt Ion:146 Resp: 115591  
 Ion Ratio Lower Upper  
 146 100  
 111 44.8 21.1 63.4  
 148 64.9 32.8 98.4



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 18.819 ug/l  
 RT: 13.64 min Scan# 1319  
 Delta R.T. -0.00 min  
 Lab File: VF061265.D  
 Acq: 3 Jan 2019 15:17

Tgt Ion: 75 Resp: 8005  
 Ion Ratio Lower Upper  
 75 100  
 155 88.8 50.6 151.8  
 157 111.8 58.0 173.9





#93

1,2,4-Trichlorobenzene

Concen: 20.992 ug/l

RT: 14.20 min Scan# 1375

Delta R.T. -0.00 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

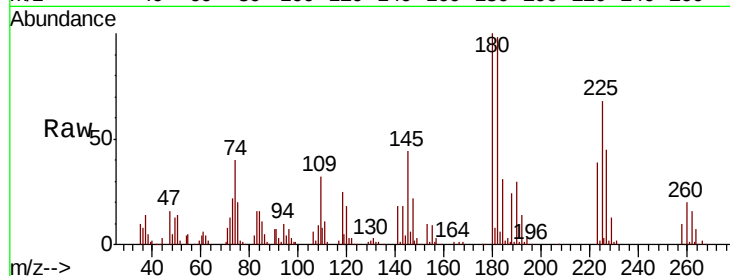
Tgt Ion:180 Resp: 81494

Ion Ratio Lower Upper

180 100

182 98.3 49.5 148.3

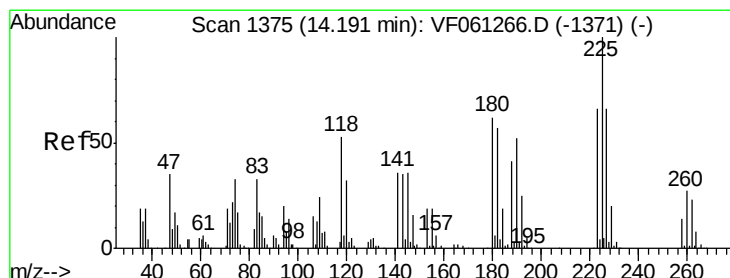
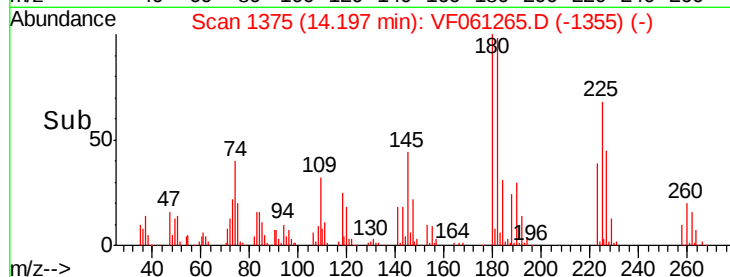
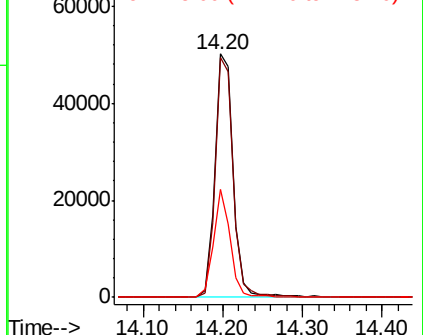
145 44.2 19.7 59.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94

Hexachlorobutadiene

Concen: 21.202 ug/l

RT: 14.20 min Scan# 1375

Delta R.T. 0.01 min

Lab File: VF061265.D

Acq: 3 Jan 2019 15:17

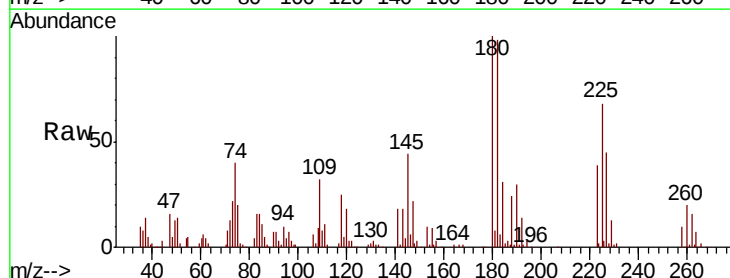
Tgt Ion:225 Resp: 52401

Ion Ratio Lower Upper

225 100

223 57.4 33.0 99.0

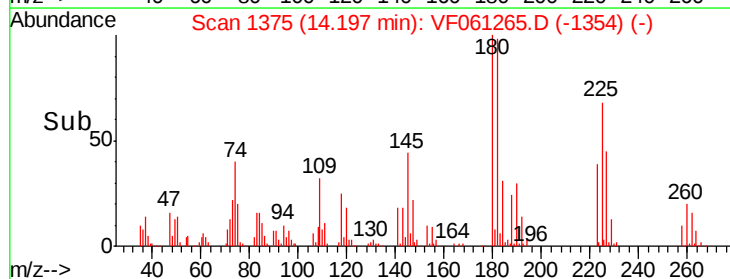
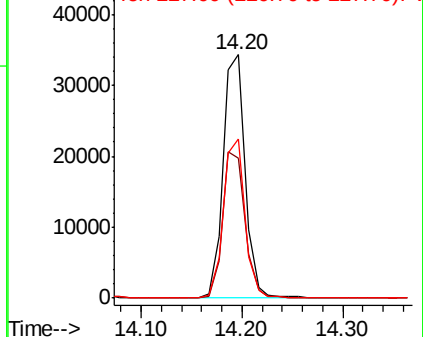
227 65.2 32.8 98.4

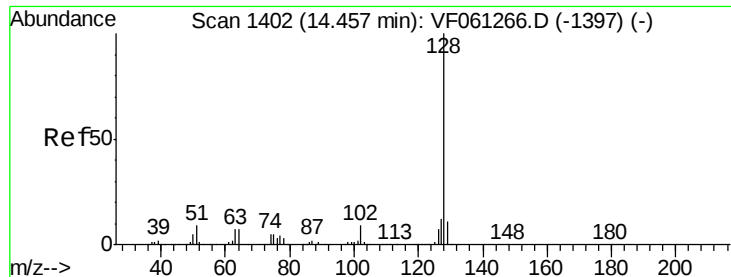


Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V

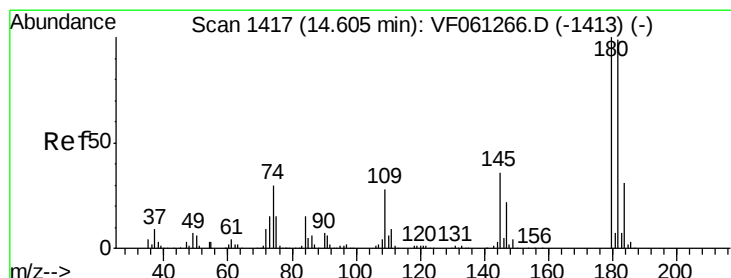
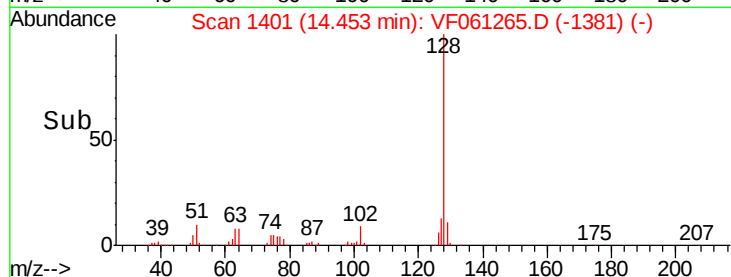
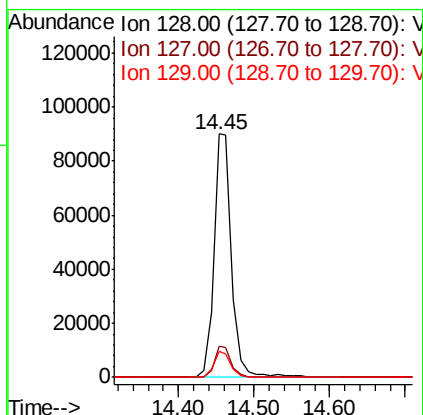
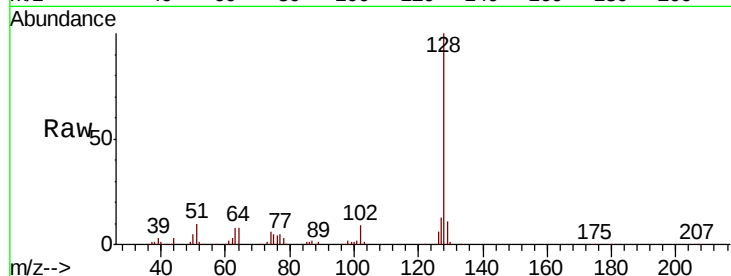




#95  
Naphthalene  
Concen: 21.027 ug/l  
RT: 14.45 min Scan# 1401  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

Tgt Ion:128 Resp: 147493  
Ion Ratio Lower Upper  
128 100  
127 12.7 9.8 14.6  
129 10.6 9.0 13.4



#96  
1,2,3-Trichlorobenzene  
Concen: 20.963 ug/l  
RT: 14.60 min Scan# 1416  
Delta R.T. -0.00 min  
Lab File: VF061265.D  
Acq: 3 Jan 2019 15:17

Tgt Ion:180 Resp: 74448  
Ion Ratio Lower Upper  
180 100  
182 92.5 49.5 148.5  
145 35.2 18.0 54.0

