

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U012220\  
 Data File : VU036524.D  
 Acq On : 22 Jan 2020 14:24  
 Operator : JC/MD  
 Sample : VSTDIC0.5  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

Manual Integrations  
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 1/23/2020 3:21:22 PM

Quant Time: Jan 22 22:16:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U012220DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Jan 22 22:08:37 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|-------|---------|----------|
| 1) Fluorobenzene              | 6.15  | 96   | 37092    | 1.00  | ug/l    | 0.00     |
| System Monitoring Compounds   |       |      |          |       |         |          |
| 57) 4-Bromofluorobenzene      | 10.66 | 95   | 14664    | 1.00  | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |      | Recovery | =     | 100.00% |          |
| 68) 1,2-Dichlorobenzene-d4    | 12.22 | 152  | 14075    | 1.09  | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |      | Recovery | =     | 109.00% |          |
| Target Compounds              |       |      |          |       |         |          |
|                               |       |      |          |       | Ovalue  |          |
| 2) Dichlorodifluoromethane    | 1.39  | 85   | 5967     | 0.562 | ug/l    | 98       |
| 3) Chloromethane              | 1.54  | 50   | 6779     | 0.494 | ug/l    | 98       |
| 4) Vinyl Chloride             | 1.62  | 62   | 7475     | 0.474 | ug/l    | 97       |
| 5) Bromomethane               | 1.88  | 94   | 5313     | 0.635 | ug/l    | 100      |
| 6) Chloroethane               | 1.95  | 64   | 5765     | 0.626 | ug/l    | 97       |
| 7) Trichlorofluoromethane     | 2.16  | 101  | 7509     | 0.410 | ug/l    | 97       |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.61  | 101  | 4415     | 0.461 | ug/l    | 95       |
| 9) 1,1-Dichloroethene         | 2.61  | 96   | 4939     | 0.505 | ug/l    | 95       |
| 10) Iodomethane               | 2.75  | 142  | 3663     | 0.313 | ug/l    | 95       |
| 11) Allyl Chloride            | 2.96  | 41   | 7111     | 0.371 | ug/l    | 94       |
| 12) Acrylonitrile             | 3.37  | 53   | 2511     | 0.916 | ug/l #  | 90       |
| 13) Acetone                   | 2.68  | 43   | 7590     | 2.308 | ug/l    | 96       |
| 14) Carbon Disulfide          | 2.82  | 76   | 17039    | 0.467 | ug/l    | 100      |
| 15) Methylene Chloride        | 3.08  | 84   | 8568     | 0.665 | ug/l    | 98       |
| 16) trans-1,2-Dichloroethene  | 3.39  | 96   | 5366     | 0.491 | ug/l    | 96       |
| 17) 1,1-Dichloroethane        | 3.91  | 63   | 9037     | 0.462 | ug/l    | 99       |
| 18) 2-Butanone                | 4.79  | 43   | 6493     | 1.833 | ug/l    | 99       |
| 19) Cyclohexane               | 5.42  | 56   | 8043m    | 0.424 | ug/l    |          |
| 20) Methylcyclohexane         | 6.79  | 83   | 8440     | 0.448 | ug/l    | 98       |
| 21) 2,2-Dichloropropane       | 4.71  | 77   | 7622     | 0.431 | ug/l    | 97       |
| 22) cis-1,2-Dichloroethene    | 4.71  | 96   | 5603     | 0.506 | ug/l    | 98       |
| 23) Diethyl Ether             | 2.40  | 59   | 3875     | 0.455 | ug/l    | 97       |
| 24) tert-Butyl Alcohol        | 3.30  | 59   | 2963     | 3.360 | ug/l #  | 80       |
| 25) Methyl tert-Butyl Ether   | 3.42  | 73   | 13003    | 0.435 | ug/l #  | 81       |
| 26) Bromochloromethane        | 5.02  | 128  | 2441     | 0.550 | ug/l    | 97       |
| 27) Chloroform                | 5.13  | 83   | 8700     | 0.447 | ug/l    | 96       |
| 28) 1,1,1-Trichloroethane     | 5.36  | 97   | 7387     | 0.429 | ug/l    | 98       |
| 29) 1,1-Dichloropropene       | 5.56  | 75   | 7288     | 0.463 | ug/l    | 99       |
| 30) Carbon Tetrachloride      | 5.56  | 117  | 6171     | 0.426 | ug/l    | 93       |
| 31) Isopropyl Ether           | 4.06  | 45   | 13395    | 0.407 | ug/l    | 97       |
| 32) Ethyl-t-butyl ether       | 4.56  | 59   | 14151    | 0.440 | ug/l    | 98       |
| 33) Tert-Amyl methyl ether    | 5.99  | 73   | 13031    | 0.446 | ug/l    | 98       |
| 34) Propionitrile             | 4.86  | 54   | 1255     | 1.420 | ug/l #  | 85       |
| 35) Benzene                   | 5.81  | 78   | 21150    | 0.481 | ug/l    | 98       |
| 36) 1,2-Dichloroethane        | 5.84  | 62   | 5604     | 0.398 | ug/l    | 97       |
| 37) Trichloroethene           | 6.58  | 130  | 5698     | 0.533 | ug/l    | 93       |
| 38) 1,2-Dichloropropane       | 6.83  | 63   | 5127     | 0.444 | ug/l    | 96       |
| 39) Methacrylonitrile         | 5.04  | 41   | 1551     | 0.370 | ug/l #  | 88       |
| 40) Methyl acrylate           | 4.92  | 55   | 1905     | 0.307 | ug/l #  | 93       |
| 41) Tetrahydrofuran           | 5.13  | 42   | 1977     | 0.911 | ug/l #  | 67       |
| 42) 1-Chlorobutane            | 5.50  | 56   | 9332     | 0.409 | ug/l    | 97       |

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Manual Integrations  
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Quant Time: Jan 22 22:16:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U012220DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Jan 22 22:08:37 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 43) Dibromomethane             | 6.95  | 93   | 2754     | 0.464 | ug/l   | 94       |
| 44) Bromodichloromethane       | 7.14  | 83   | 6420     | 0.420 | ug/l   | 94       |
| 45) 4-Methyl-2-Pentanone       | 7.84  | 43   | 15775    | 1.922 | ug/l   | 99       |
| 46) t-1,4-Dichloro-2-butene    | 10.87 | 75   | 2430m    | 0.729 | ug/l   |          |
| 47) Methyl methacrylate        | 7.01  | 69   | 5340     | 0.943 | ug/l   | 94       |
| 48) Ethyl methacrylate         | 8.37  | 69   | 4873     | 0.436 | ug/l   | 94       |
| 49) Toluene                    | 8.00  | 92   | 13562    | 0.497 | ug/l   | 98       |
| 50) t-1,3-Dichloropropene      | 8.24  | 75   | 6182     | 0.412 | ug/l   | 96       |
| 51) cis-1,3-Dichloropropene    | 7.64  | 75   | 7482     | 0.432 | ug/l   | 98       |
| 52) 1,1,2-Trichloroethane      | 8.43  | 97   | 3791     | 0.482 | ug/l   | 97       |
| 53) 1,3-Dichloropropane        | 8.61  | 76   | 6414     | 0.437 | ug/l   | 98       |
| 54) 2-Hexanone                 | 8.73  | 43   | 10375    | 1.836 | ug/l   | 98       |
| 55) Dibromochloromethane       | 8.84  | 129  | 4170     | 0.452 | ug/l   | 100      |
| 56) 1,2-Dibromoethane          | 8.95  | 107  | 3576     | 0.462 | ug/l   | 99       |
| 58) Tetrachloroethene          | 8.58  | 164  | 5109     | 0.579 | ug/l   | 97       |
| 59) Chlorobenzene              | 9.47  | 112  | 14960    | 0.519 | ug/l   | 99       |
| 60) 1,1,1,2-Tetrachloroethane  | 9.56  | 131  | 4451     | 0.456 | ug/l   | 97       |
| 61) Pentachloroethane          | 11.45 | 117  | 3242     | 0.404 | ug/l   | 98       |
| 62) Hexachloroethane           | 12.50 | 117  | 3670     | 0.435 | ug/l   | 96       |
| 63) Ethyl Benzene              | 9.60  | 91   | 24514    | 0.468 | ug/l   | 98       |
| 64) m/p-Xylenes                | 9.72  | 106  | 19179    | 0.990 | ug/l   | 97       |
| 65) o-Xylene                   | 10.13 | 106  | 9231     | 0.488 | ug/l   | 96       |
| 66) Styrene                    | 10.14 | 104  | 15742    | 0.504 | ug/l   | 98       |
| 67) Bromoform                  | 10.32 | 173  | 2293     | 0.502 | ug/l # | 95       |
| 69) Isopropylbenzene           | 10.51 | 105  | 24167    | 0.475 | ug/l   | 100      |
| 70) 1,1,2,2-Tetrachloroethane  | 10.81 | 83   | 4804     | 0.453 | ug/l   | 95       |
| 71) 1,2,3-Trichloropropane     | 10.85 | 75   | 3680m    | 0.455 | ug/l   |          |
| 72) Bromobenzene               | 10.81 | 156  | 5692     | 0.529 | ug/l   | 91       |
| 73) n-propylbenzene            | 10.93 | 120  | 6352     | 0.466 | ug/l   | 90       |
| 74) 2-Chlorotoluene            | 11.01 | 126  | 5918     | 0.506 | ug/l   | 92       |
| 75) 1,3,5-Trimethylbenzene     | 11.11 | 105  | 21220    | 0.492 | ug/l   | 96       |
| 76) 4-Chlorotoluene            | 11.12 | 126  | 5946     | 0.494 | ug/l   | 90       |
| 77) tert-Butylbenzene          | 11.44 | 119  | 20541    | 0.497 | ug/l   | 98       |
| 78) 1,2,4-Trimethylbenzene     | 11.49 | 105  | 22030    | 0.493 | ug/l   | 97       |
| 79) sec-Butylbenzene           | 11.66 | 105  | 27275    | 0.476 | ug/l   | 98       |
| 80) Nitrobenzene               | 13.24 | 77   | 168      | 0.903 | ug/l # | 40       |
| 81) p-Isopropyltoluene         | 11.81 | 119  | 22046    | 0.482 | ug/l   | 98       |
| 82) 1,3-Dichlorobenzene        | 11.77 | 146  | 11657    | 0.517 | ug/l   | 98       |
| 83) 1,4-Dichlorobenzene        | 11.86 | 146  | 11825    | 0.530 | ug/l   | 97       |
| 84) n-Butylbenzene             | 12.23 | 91   | 19613    | 0.407 | ug/l   | 99       |
| 85) 1,2-Dichlorobenzene        | 12.24 | 146  | 11688    | 0.548 | ug/l   | 98       |
| 86) 1,2-Dibromo-3-Chloropropan | 13.02 | 75   | 853      | 0.443 | ug/l # | 76       |
| 87) 1,2,4-Trichlorobenzene     | 13.86 | 180  | 5954     | 0.440 | ug/l   | 95       |
| 88) Hexachlorobutadiene        | 14.04 | 225  | 3718     | 0.585 | ug/l   | 94       |
| 89) Naphthalene                | 14.11 | 128  | 9927     | 0.369 | ug/l   | 97       |
| 90) 1,2,3-Trichlorobenzene     | 14.35 | 180  | 6190     | 0.498 | ug/l   | 98       |

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

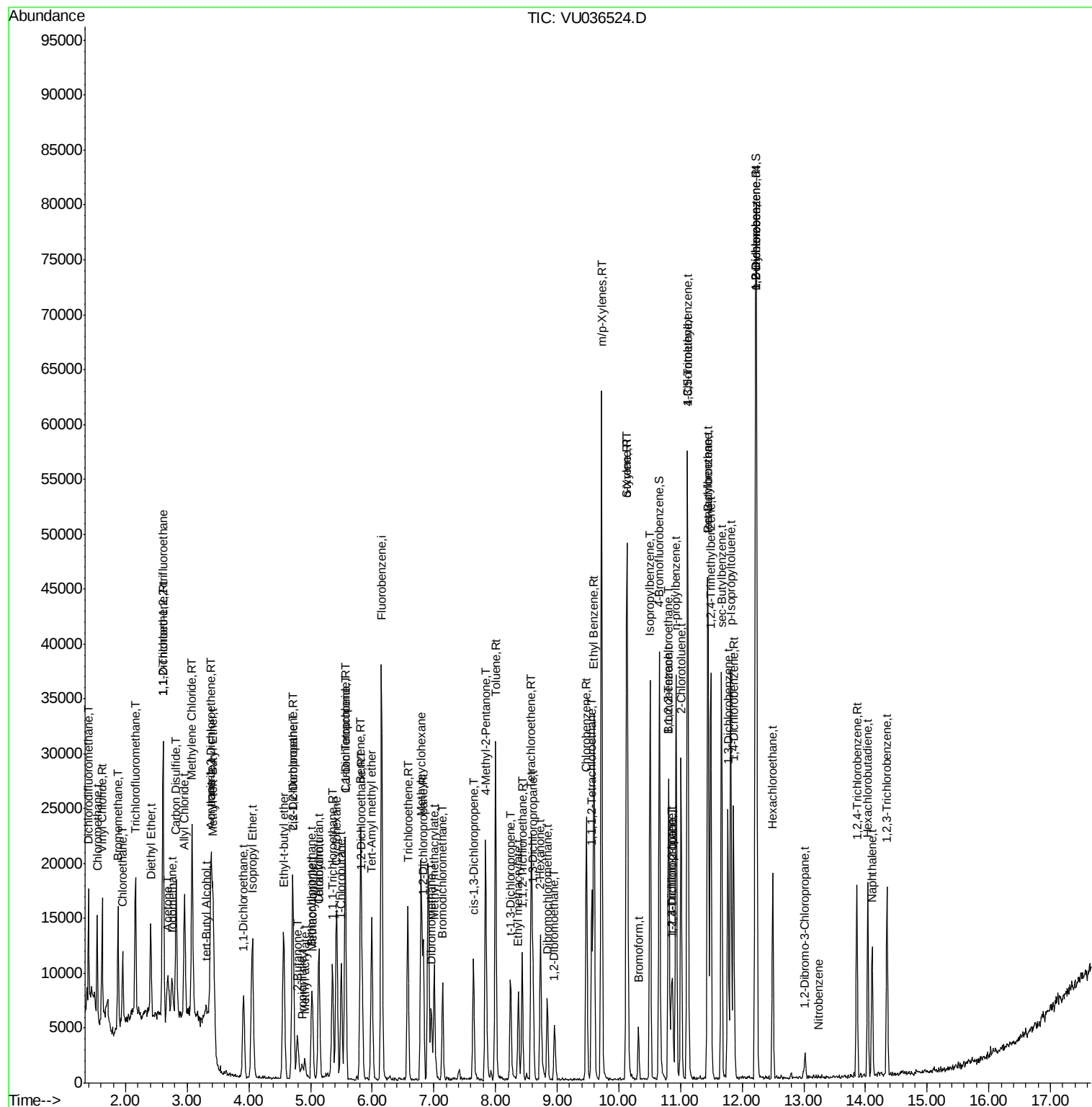
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU012220\  
 Data File : VU036524.D  
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 Sample : VSTDIC0.5  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

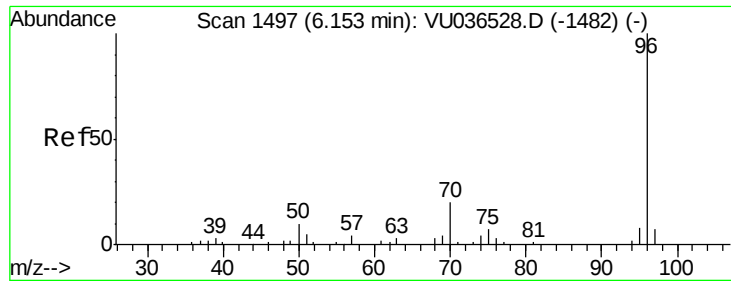
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

Manual Integrations  
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Quant Time: Jan 22 22:16:31 2020  
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 Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 6.15 min Scan# 1496

Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

Instrument :

MSVOA\_U

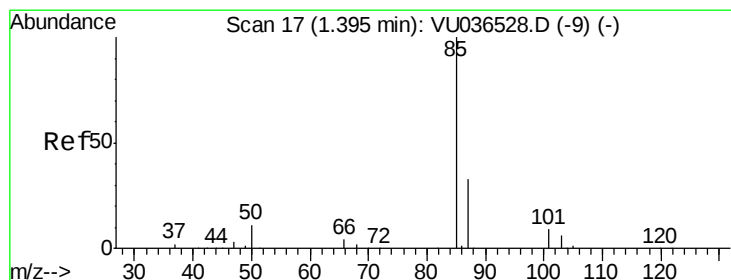
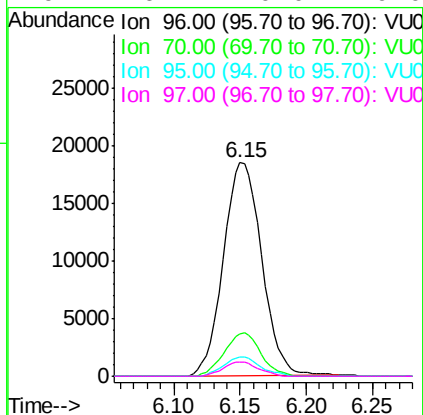
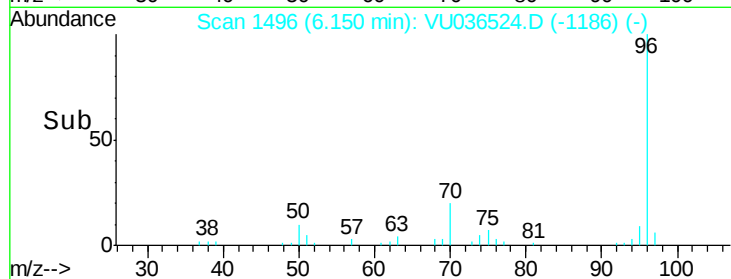
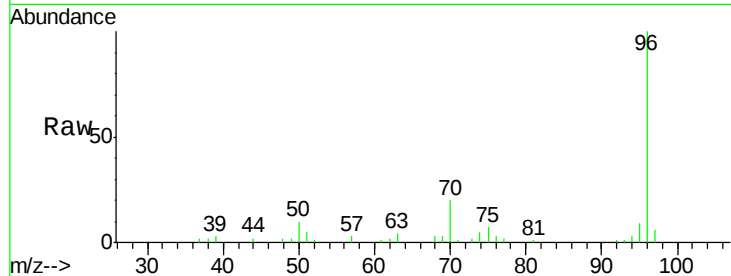
ClientSampleId :

VSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 96    | Resp: | 37092 |
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 70        | 19.3  | 15.6  | 23.4  |
| 95        | 8.6   | 7.0   | 10.6  |
| 97        | 6.1   | 0.0   | 0.0#  |

Manual Integrations  
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#2

Dichlorodifluoromethane

Concen: 0.562 ug/l

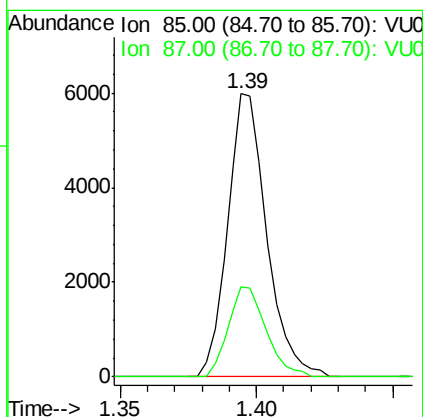
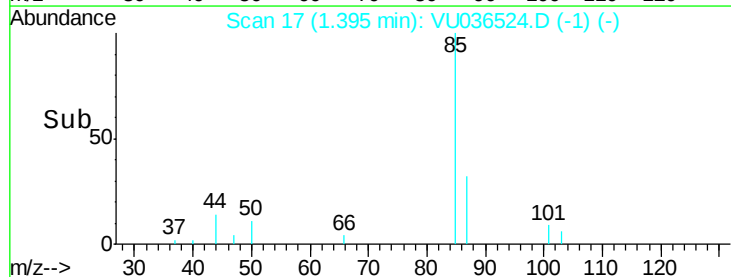
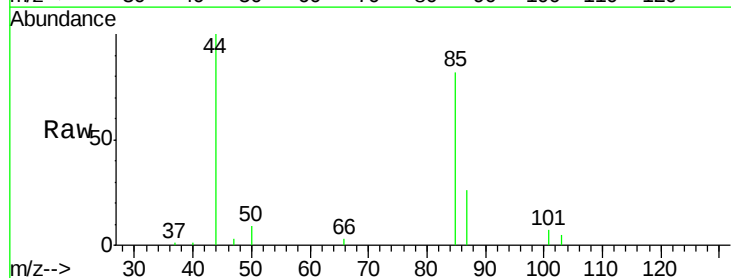
RT: 1.39 min Scan# 17

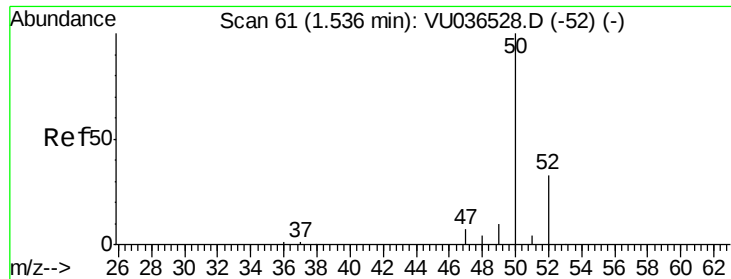
Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 85    | Resp: | 5967 |
| Ion Ratio | Lower | Upper |      |
| 85        | 100   |       |      |
| 87        | 31.9  | 16.4  | 49.2 |





#3

Chloromethane

Concen: 0.494 ug/l

RT: 1.54 min Scan# 62

Delta R.T. 0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 50 Resp: 6779

Ion Ratio Lower Upper

50 100

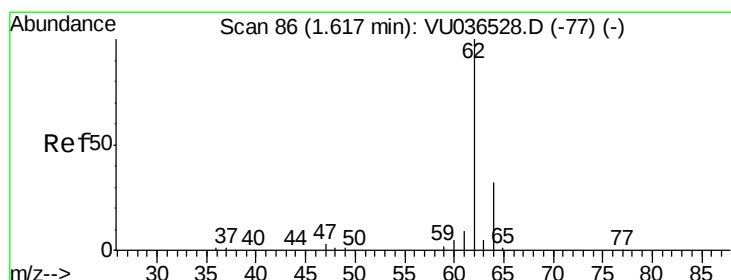
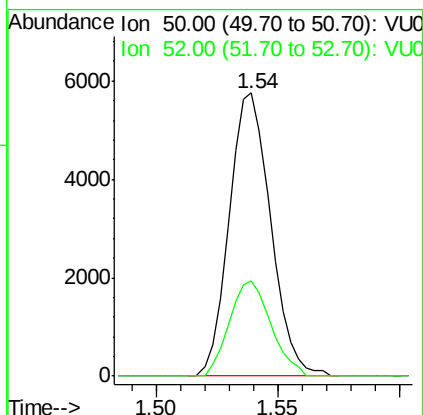
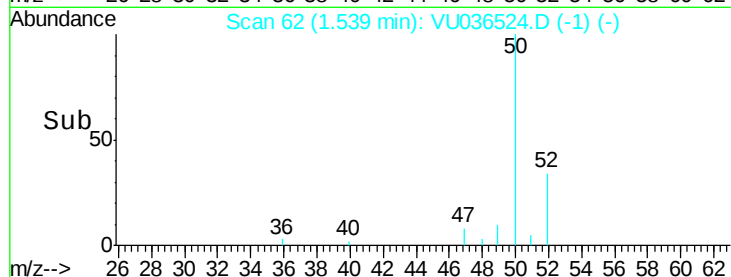
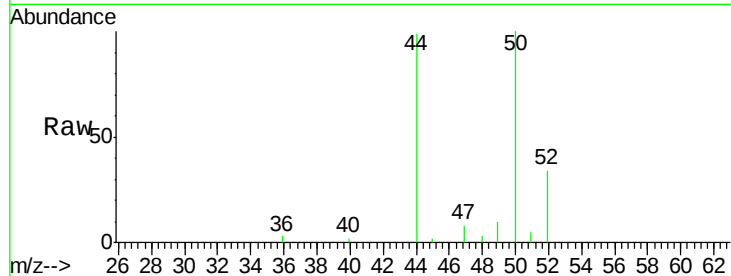
52 33.8 26.0 39.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 0.474 ug/l

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU036524.D

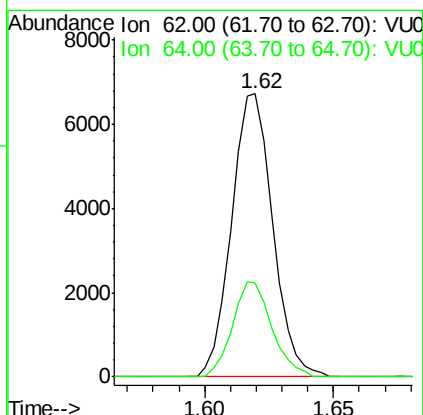
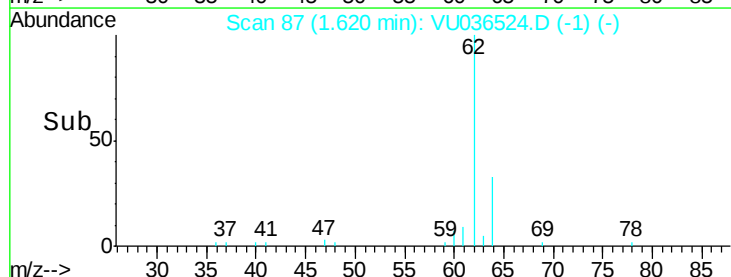
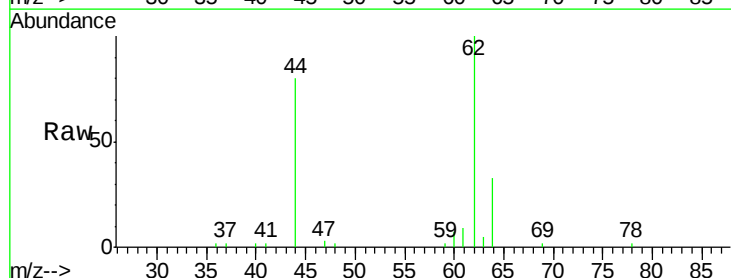
Acq: 22 Jan 2020 14:24

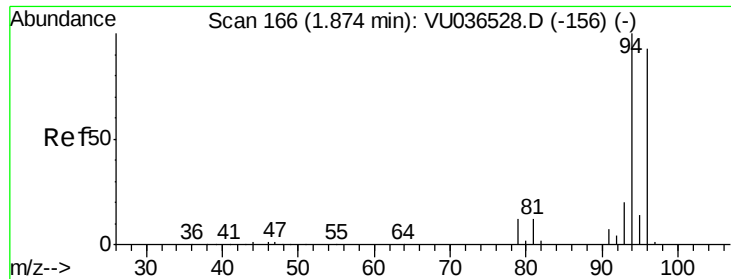
Tgt Ion: 62 Resp: 7475

Ion Ratio Lower Upper

62 100

64 33.3 25.4 38.2





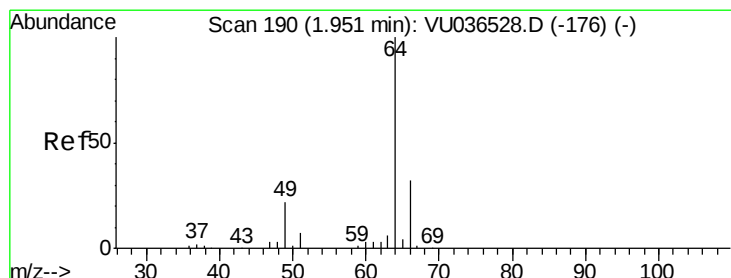
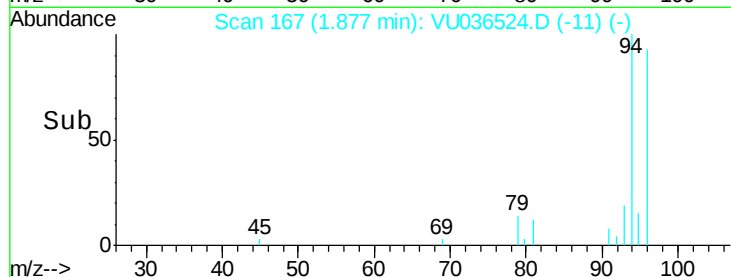
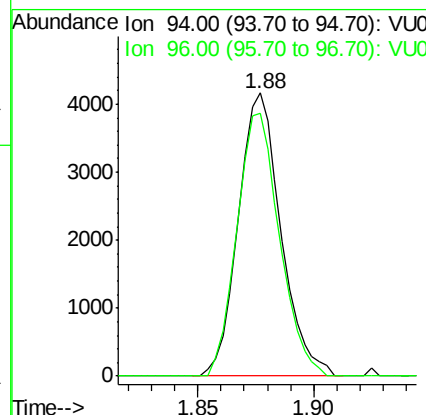
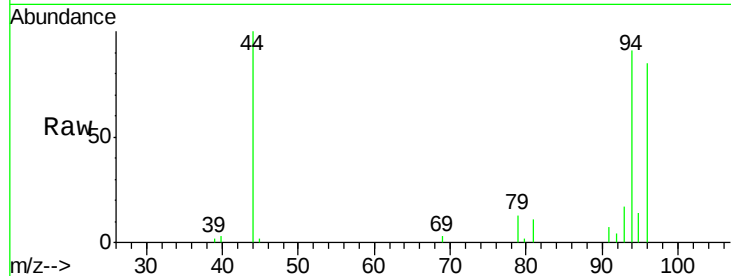
#5  
Bromomethane  
Concen: 0.635 ug/l  
RT: 1.88 min Scan# 167  
Delta R.T. 0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

Tot Ion: 94 Resp: 5313  
Ion Ratio Lower Upper  
94 100  
96 93.0 74.6 112.0

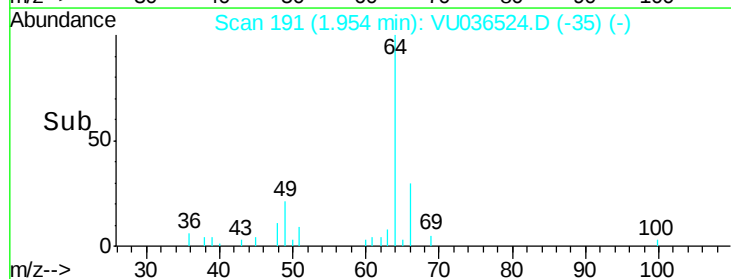
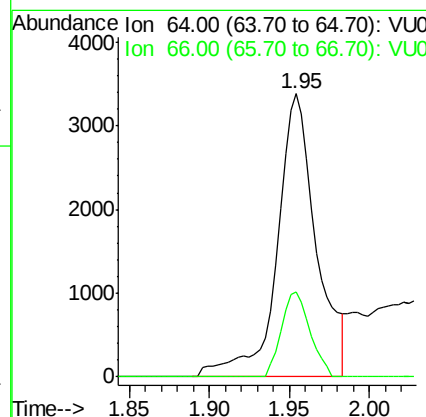
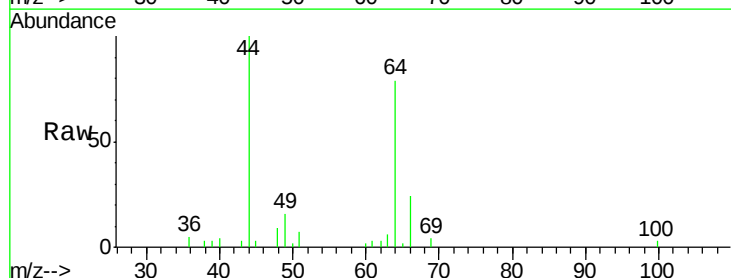
Manual Integrations  
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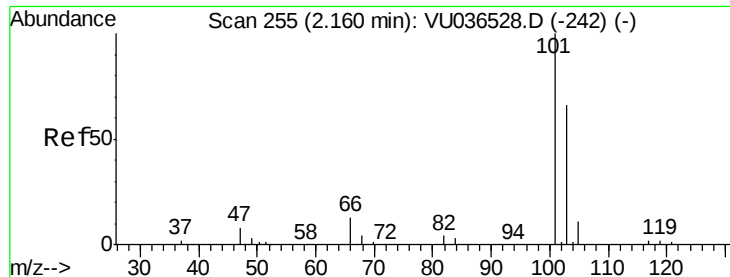
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#6  
Chloroethane  
Concen: 0.626 ug/l  
RT: 1.95 min Scan# 191  
Delta R.T. 0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Tgt Ion: 64 Resp: 5765  
Ion Ratio Lower Upper  
64 100  
66 30.0 25.5 38.3





#7

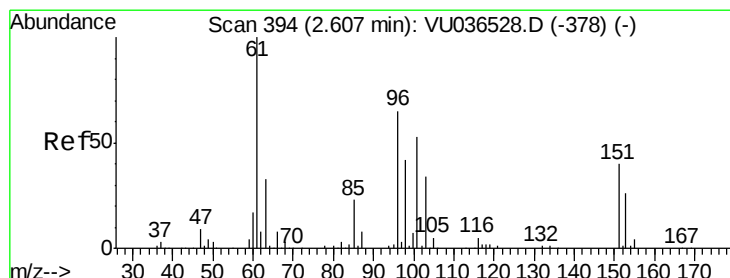
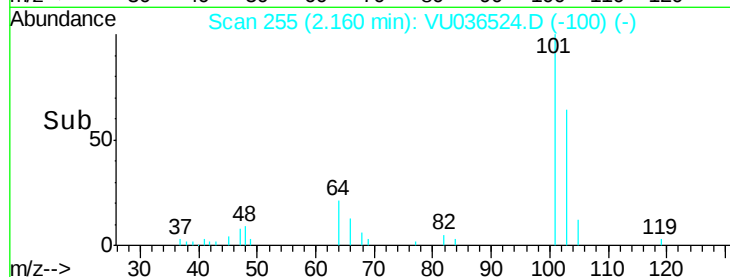
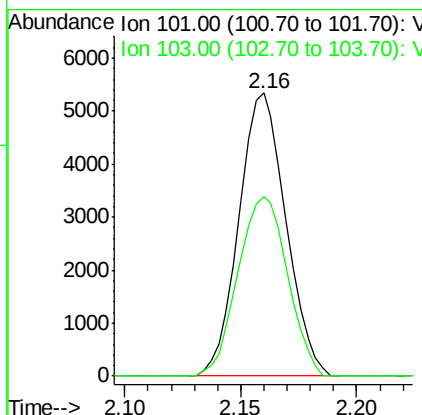
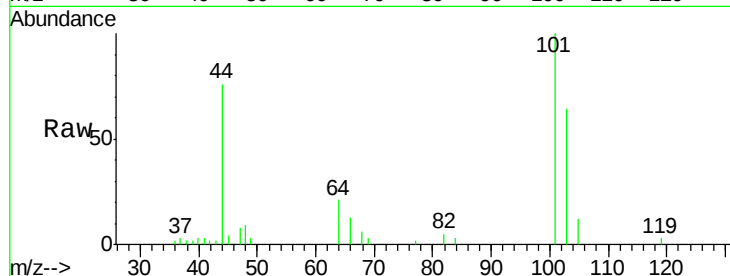
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Concen: 0.410 ug/l  
RT: 2.16 min Scan# 255  
Delta R.T. -0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 63.7  | 53.0  | 79.6  |

Manual Integrations  
APPROVED

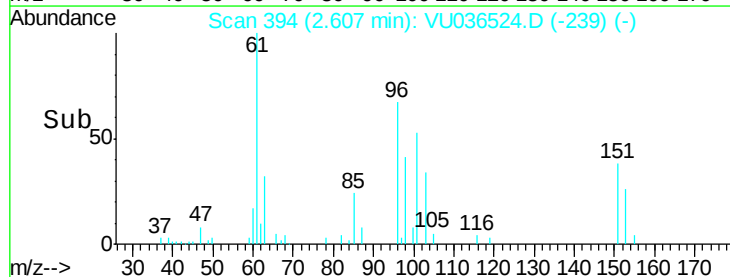
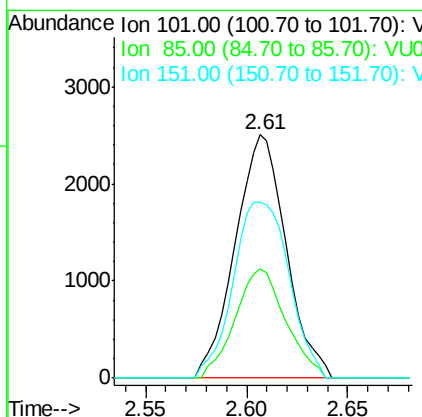
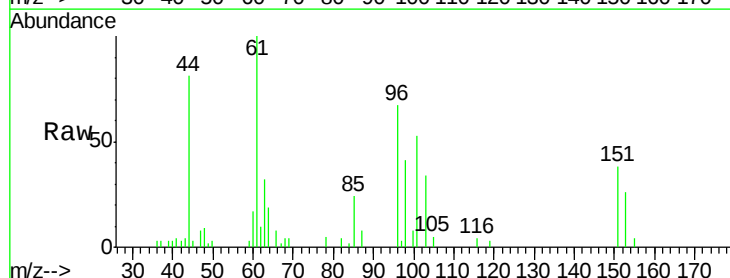
apatel  
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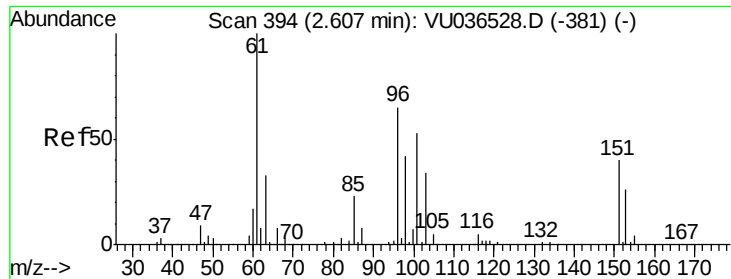


#8

1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.461 ug/l  
RT: 2.61 min Scan# 394  
Delta R.T. -0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 85      | 44.6  | 33.9  | 50.9  |
| 151     | 79.5  | 59.8  | 89.8  |





#9

1,1-Dichloroethene

Concen: 0.505 ug/l

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

Instrument :

MSVOA\_U

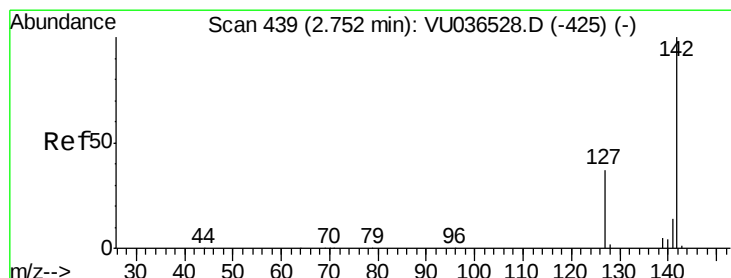
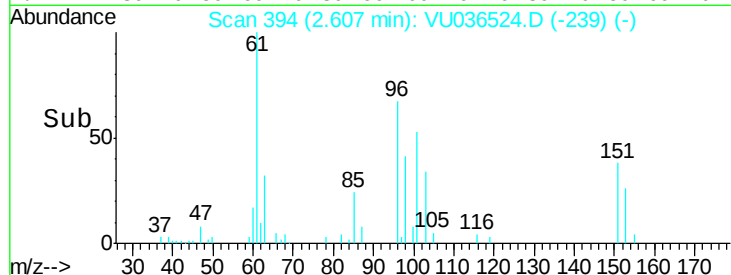
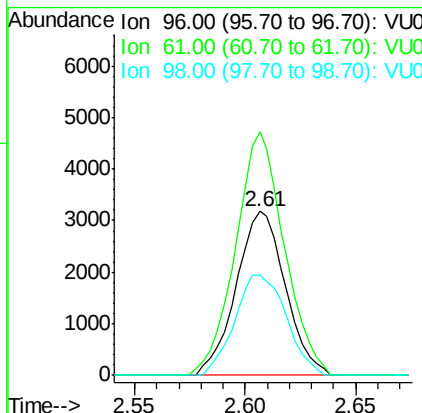
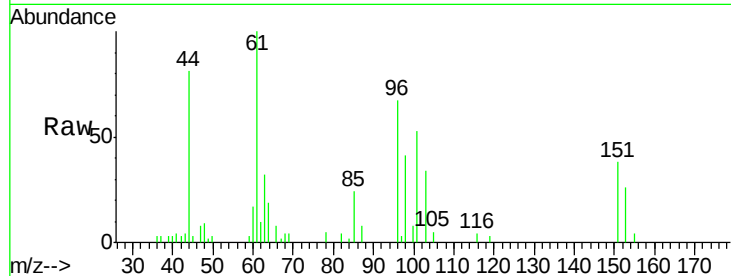
ClientSampleId :

VSTDIC0.5

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 4939  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 148.3 | 0.0   | 463.2 |
| 98       | 60.9  | 0.0   | 130.0 |

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#10

Iodomethane

Concen: 0.313 ug/l

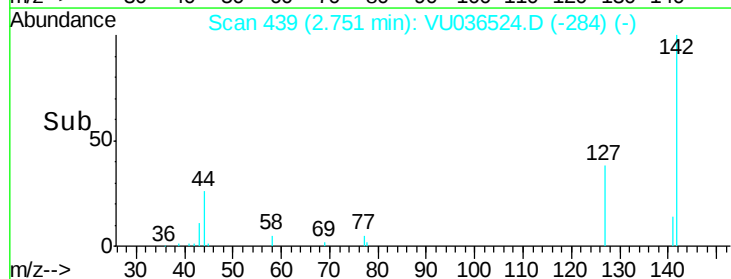
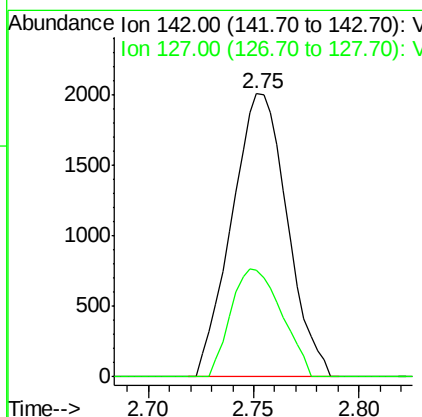
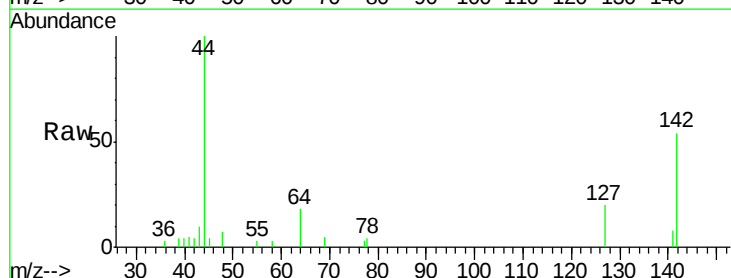
RT: 2.75 min Scan# 439

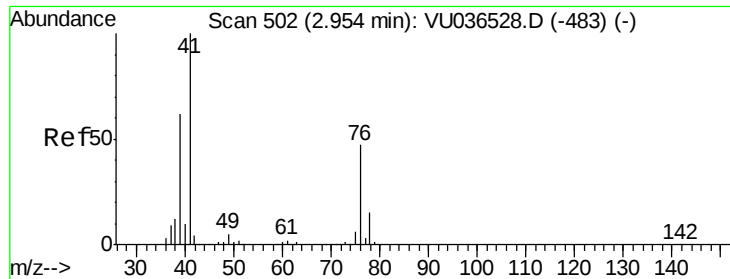
Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 3663  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 34.8  | 30.3  | 45.5  |





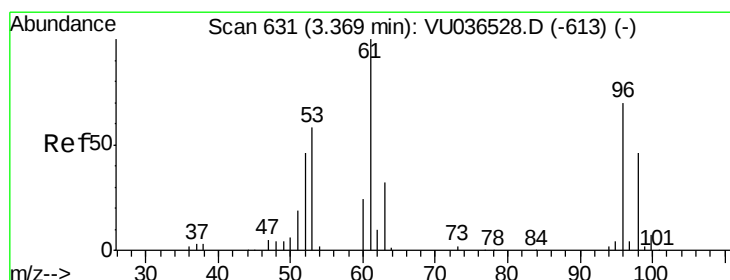
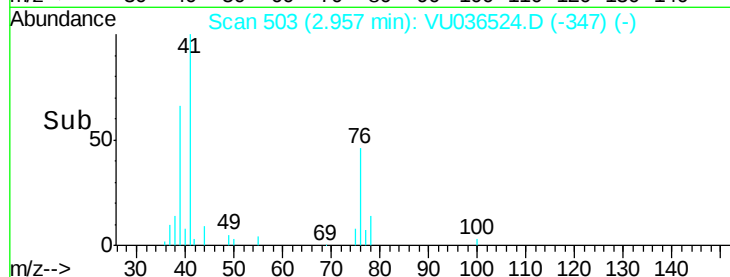
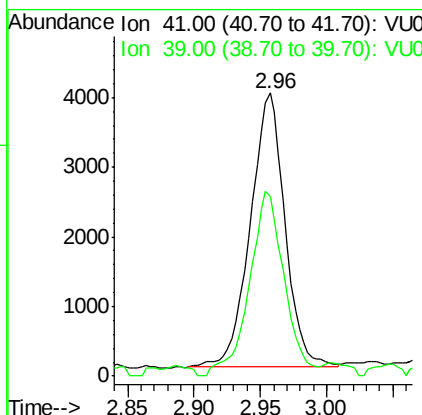
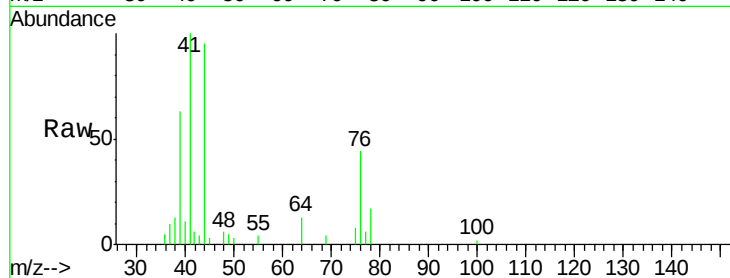
#11  
Allvl Chloride  
Concen: 0.371 ug/l  
RT: 2.96 min Scan# 503  
Delta R.T. 0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

Tot Ion: 41 Resp: 7111  
Ion Ratio Lower Upper  
41 100  
39 68.1 50.7 76.1

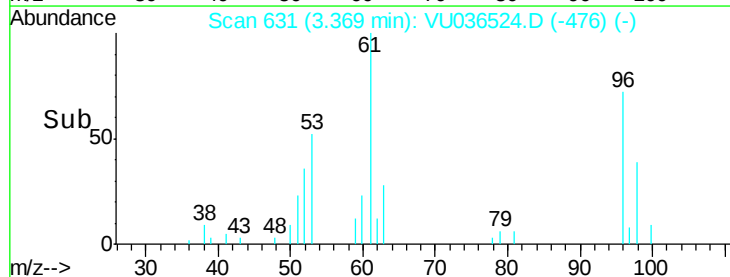
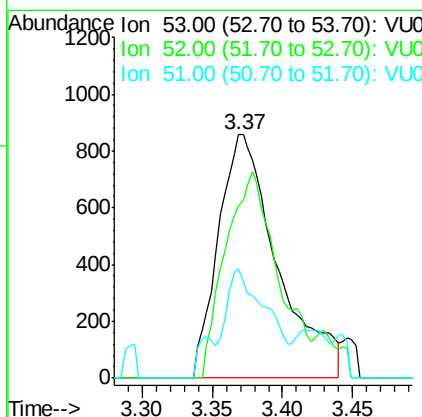
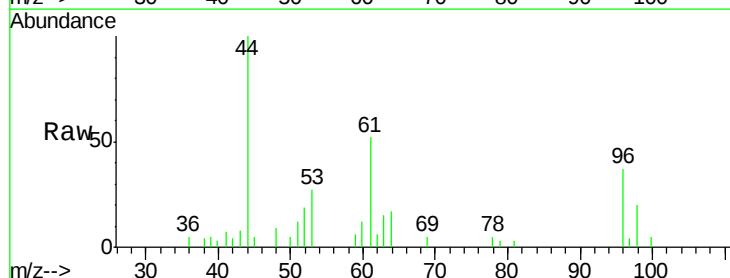
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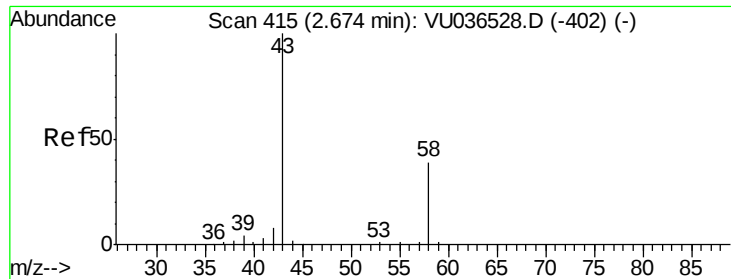
apatel  
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#12  
Acrylonitrile  
Concen: 0.916 ug/l  
RT: 3.37 min Scan# 631  
Delta R.T. -0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Tgt Ion: 53 Resp: 2511  
Ion Ratio Lower Upper  
53 100  
52 75.0 64.6 97.0  
51 24.3 27.2 40.8#





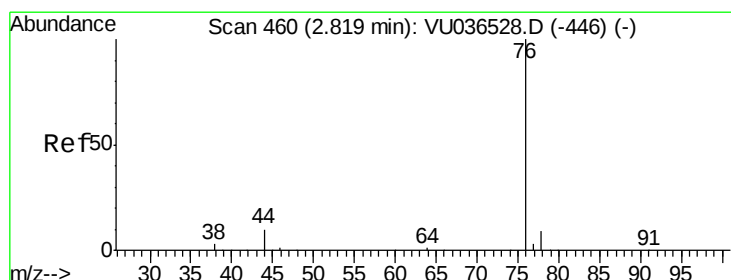
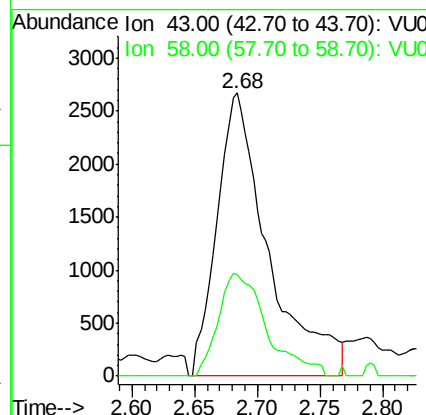
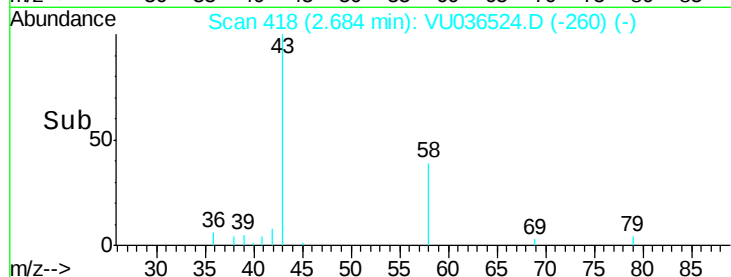
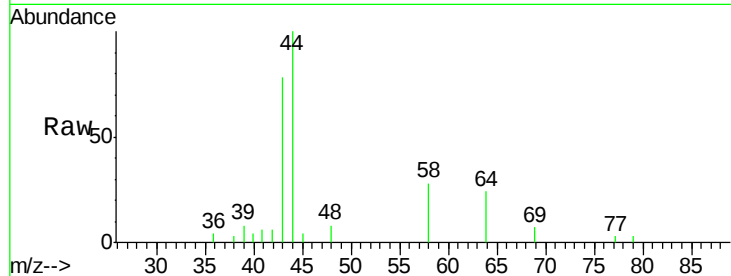
#13  
Acetone  
Concen: 2.308 ug/l  
RT: 2.68 min Scan# 418  
Delta R.T. 0.01 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

Tot Ion: 43 Resp: 7590  
Ion Ratio Lower Upper  
43 100  
58 36.0 30.8 46.2

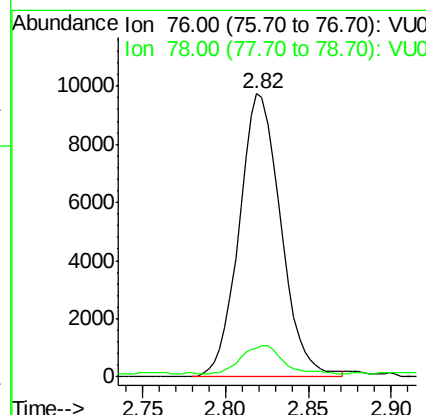
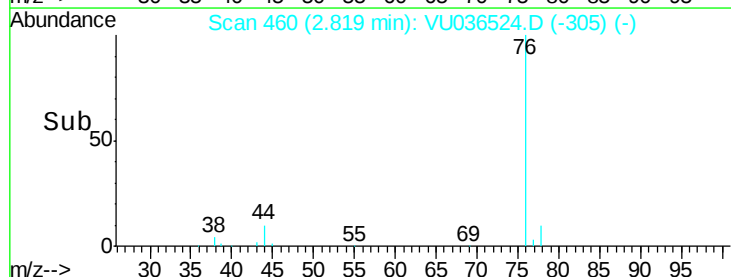
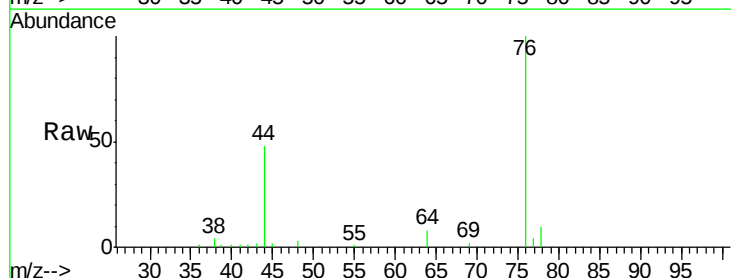
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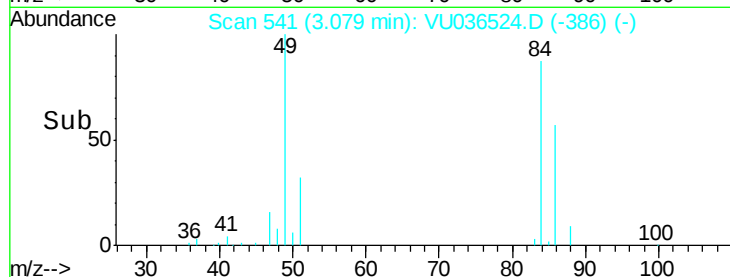
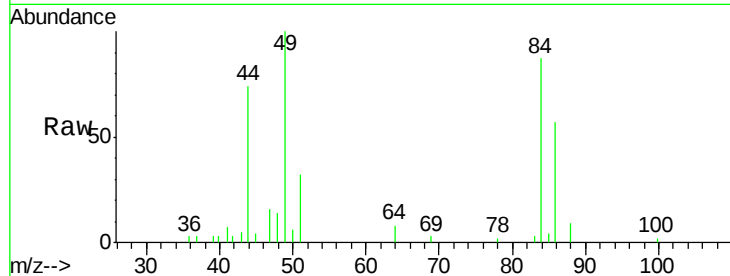
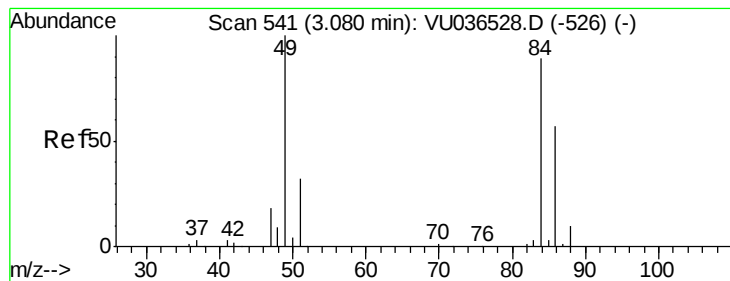
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#14  
Carbon Disulfide  
Concen: 0.467 ug/l  
RT: 2.82 min Scan# 460  
Delta R.T. -0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Tgt Ion: 76 Resp: 17039  
Ion Ratio Lower Upper  
76 100  
78 9.2 7.4 11.0





#15

Methvlene Chloride

Concen: 0.665 ug/l

RT: 3.08 min Scan# 541

Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 8568  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 114.5 | 89.7  | 134.5 |
| 51       | 36.8  | 0.0   | 71.6  |
| 86       | 64.7  | 51.4  | 77.2  |

Instrument :

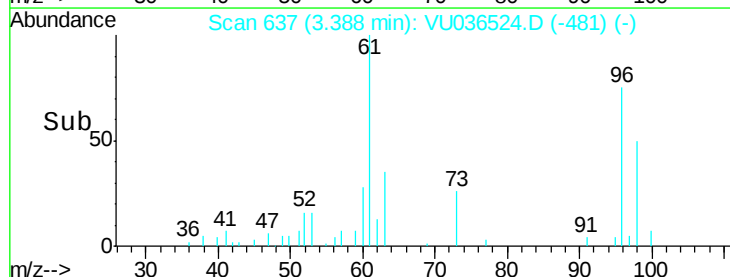
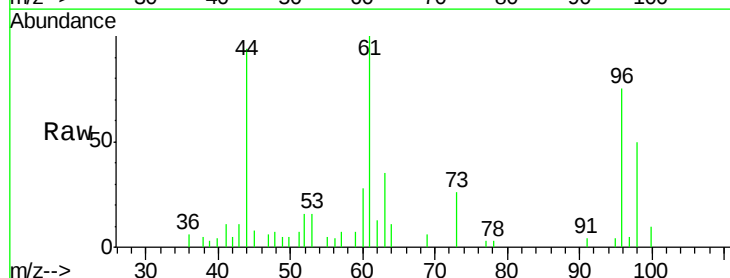
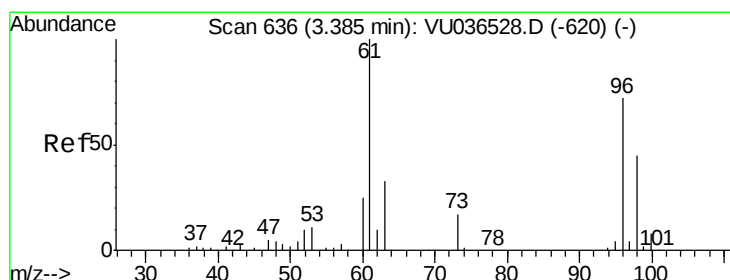
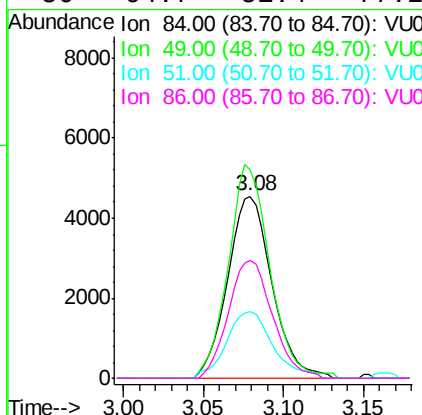
MSVOA\_U

ClientSampleId :

VSTDIC0.5

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#16

trans-1,2-Dichloroethene

Concen: 0.491 ug/l

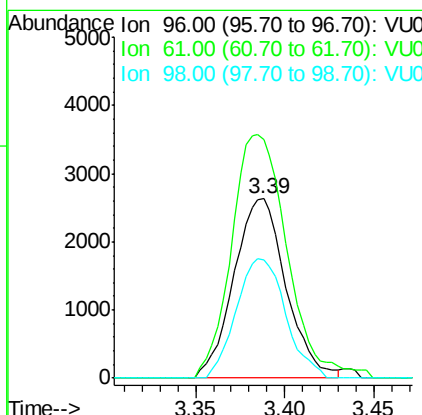
RT: 3.39 min Scan# 637

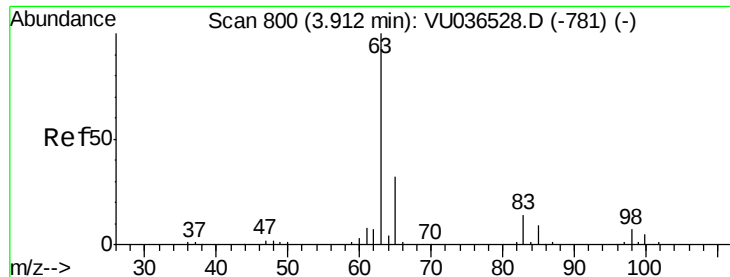
Delta R.T. 0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 5366  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 133.1 | 110.8 | 166.2 |
| 98       | 66.2  | 50.3  | 75.5  |





#17

1,1-Dichloroethane

Concen: 0.462 ug/l

RT: 3.91 min Scan# 800

Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

Instrument :

MSVOA\_U

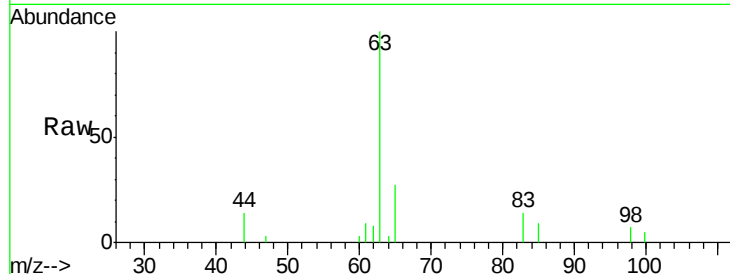
ClientSampleId :

VSTDIC0.5

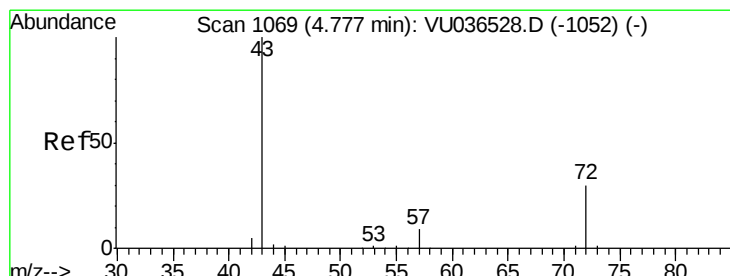
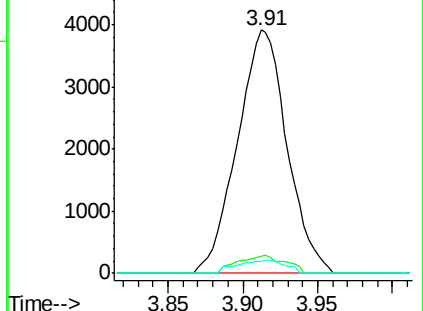
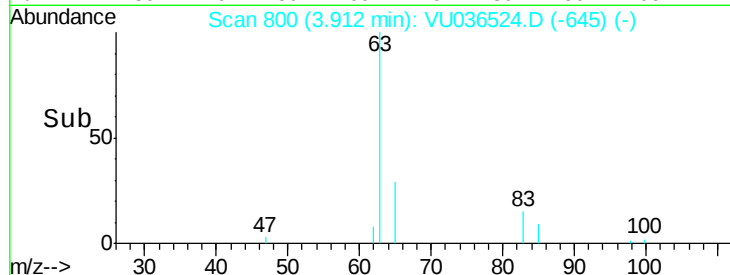
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 63    | Resp: | 9037  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 7.2   | 3.5   | 10.5  |
| 100      | 5.0   | 2.4   | 7.1   |

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Abundance Ion 63.00 (62.70 to 63.70): VU036524.D (-645) (-)



#18

2-Butanone

Concen: 1.833 ug/l

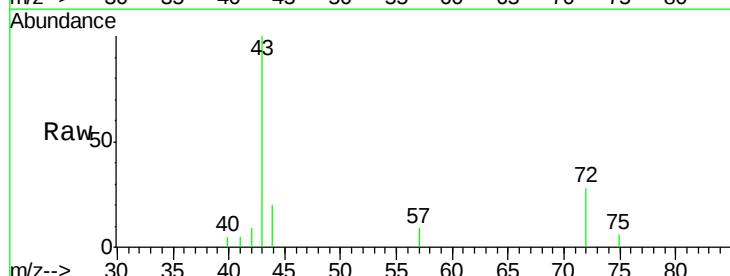
RT: 4.79 min Scan# 1072

Delta R.T. 0.01 min

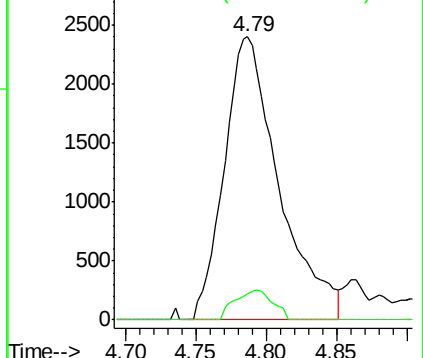
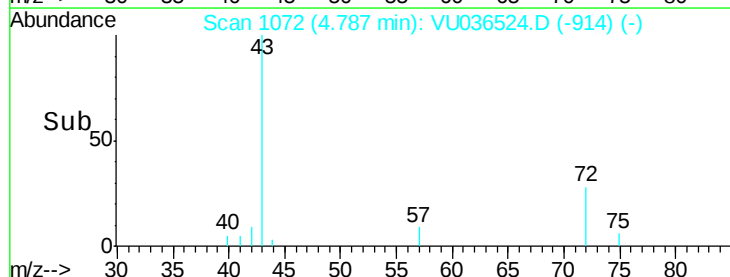
Lab File: VU036524.D

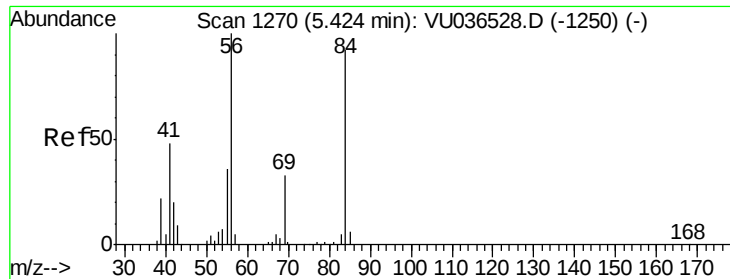
Acq: 22 Jan 2020 14:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 6493  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 57       | 9.2   | 0.0   | 17.8  |



Abundance Ion 43.00 (42.70 to 43.70): VU036524.D (-914) (-)





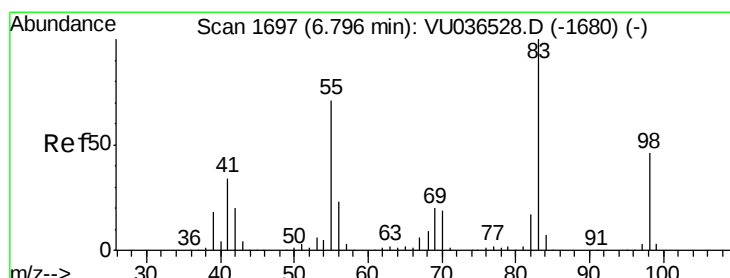
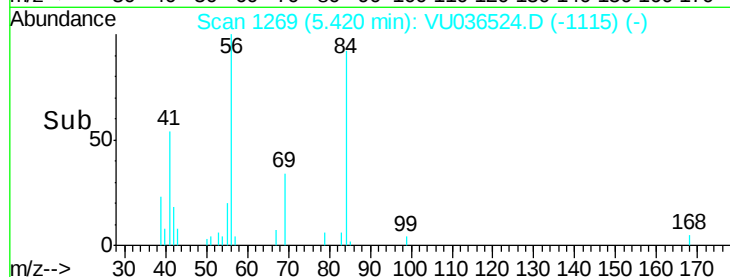
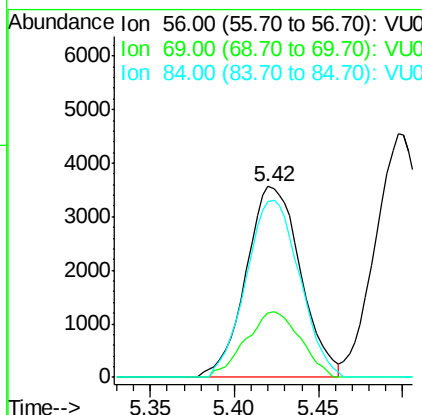
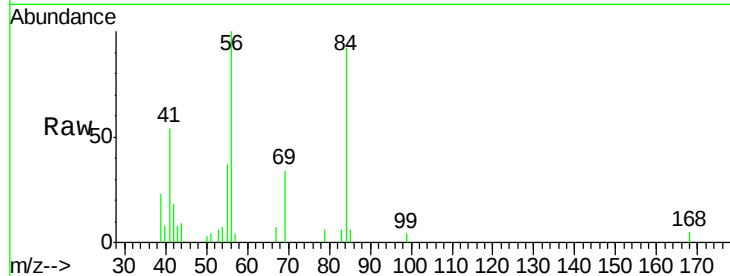
#19  
Cyclohexane  
Concen: 0.424 ug/l m  
RT: 5.42 min Scan# 1269  
Delta R.T. -0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 34.3  | 26.2  | 39.2  |
| 84      | 91.0  | 72.8  | 109.2 |

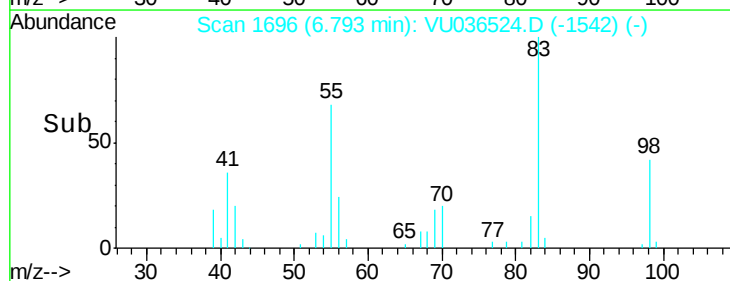
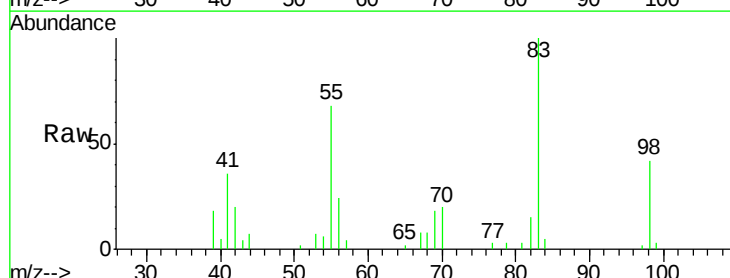
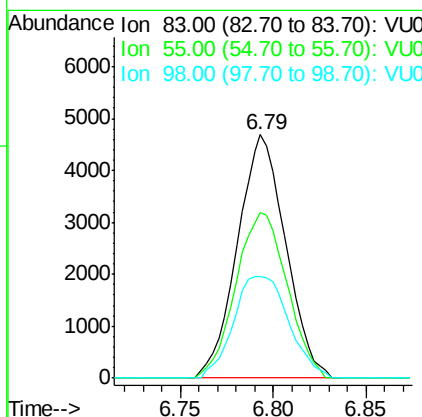
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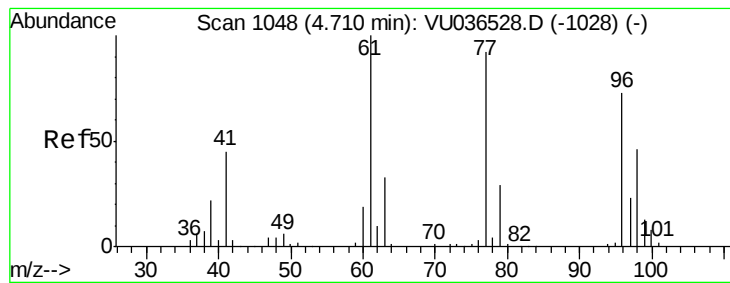
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#20  
Methylcyclohexane  
Concen: 0.448 ug/l  
RT: 6.79 min Scan# 1696  
Delta R.T. -0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 72.2  | 56.6  | 85.0  |
| 98      | 47.9  | 37.5  | 56.3  |





#21

2,2-Dichloropropane

Concen: 0.431 ug/l

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 77 Resp: 7622

Ion Ratio Lower Upper

77 100

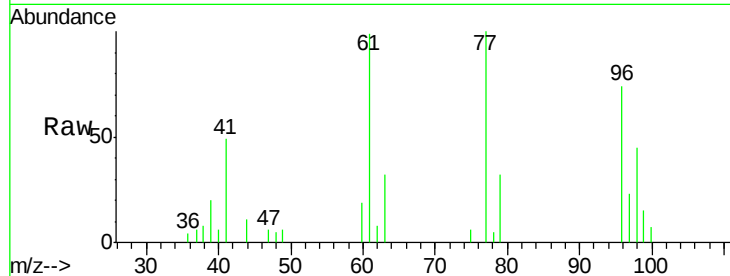
97 22.3 19.0 28.4

Manual Integrations

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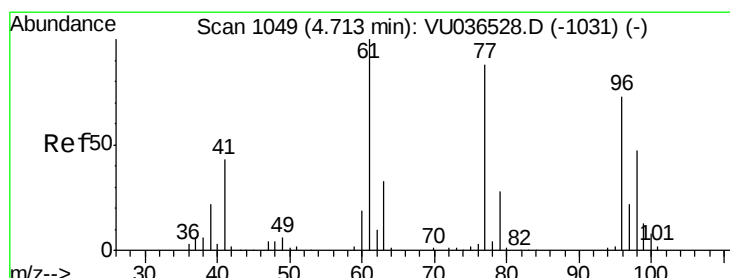
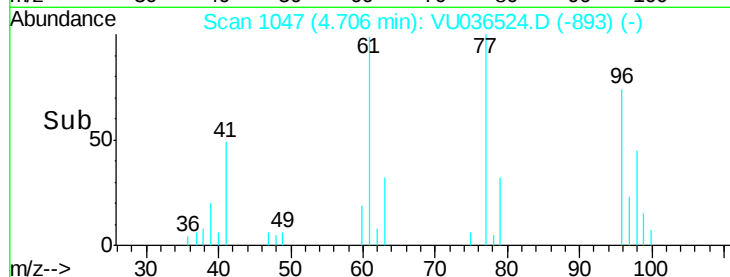
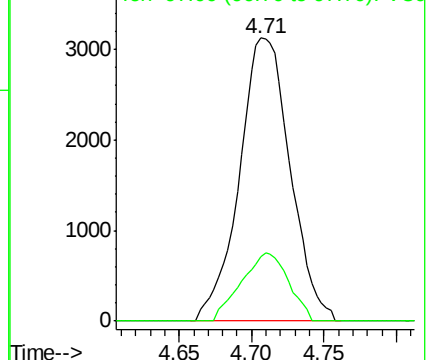
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Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#22

cis-1,2-Dichloroethene

Concen: 0.506 ug/l

RT: 4.71 min Scan# 1049

Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

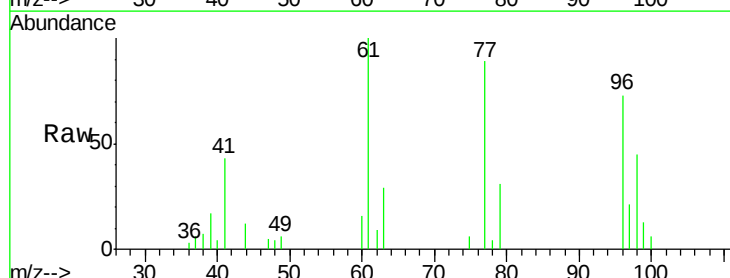
Tgt Ion: 96 Resp: 5603

Ion Ratio Lower Upper

96 100

61 139.2 0.0 342.0

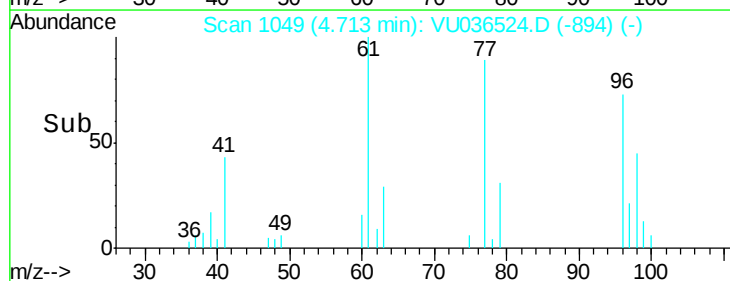
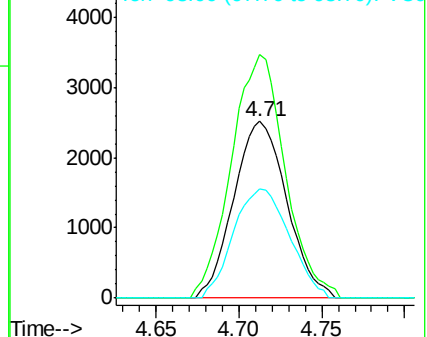
98 65.0 32.0 96.0

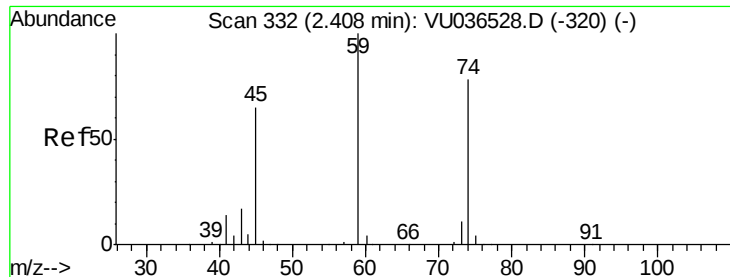


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





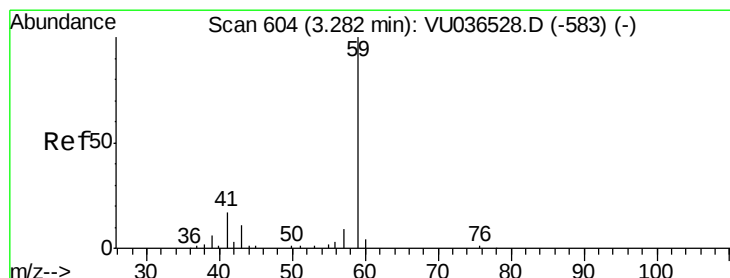
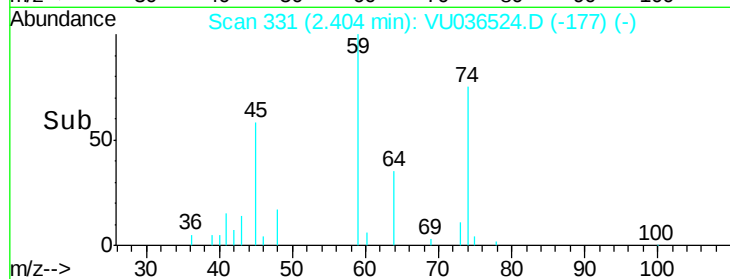
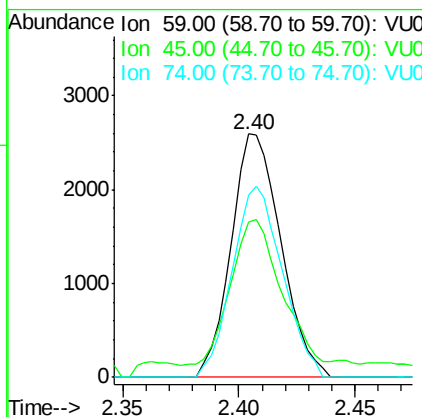
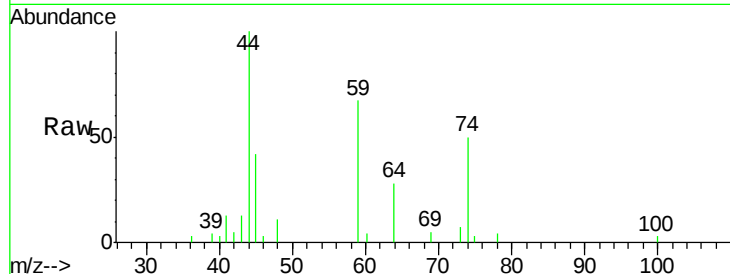
#23  
Diethyl Ether  
Concen: 0.455 ug/l  
RT: 2.40 min Scan# 331  
Delta R.T. -0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 45      | 61.0  | 52.4  | 78.6  |
| 74      | 78.7  | 62.1  | 93.1  |

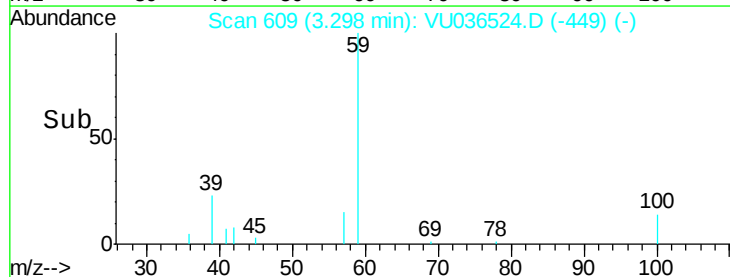
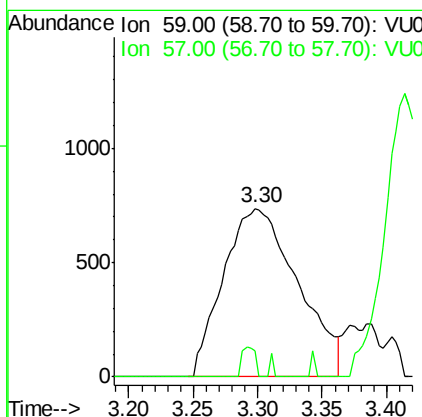
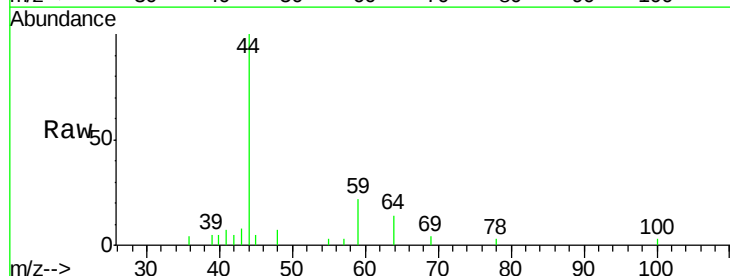
Manual Integrations  
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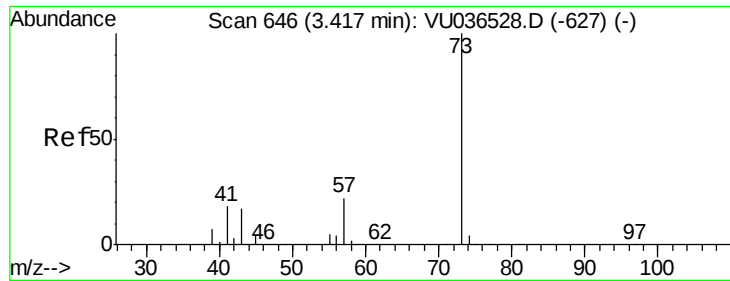
apatel  
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#24  
tert-Butyl Alcohol  
Concen: 3.360 ug/l  
RT: 3.30 min Scan# 609  
Delta R.T. 0.02 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 3.2   | 8.4   | 12.6  |





#25

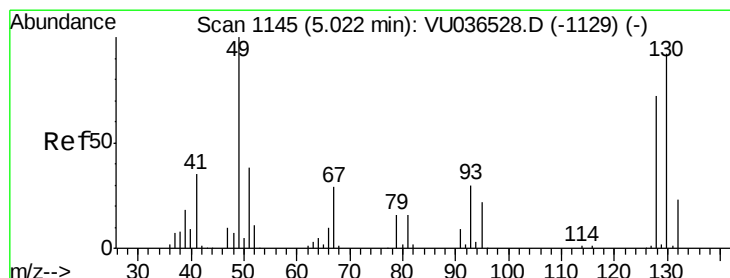
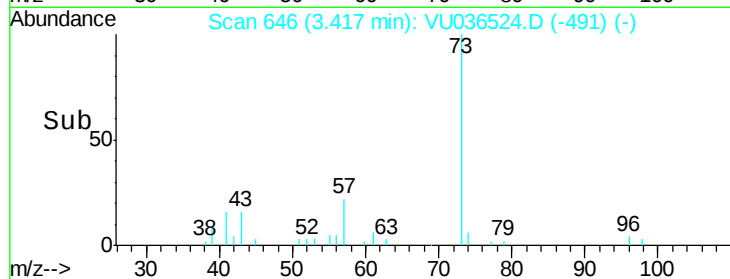
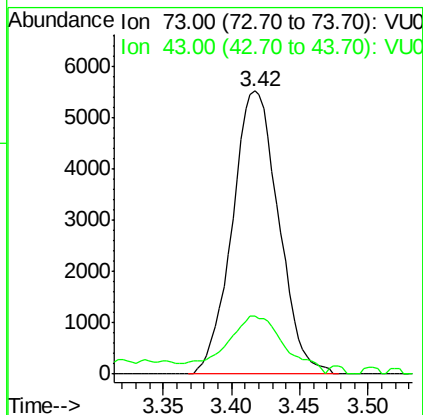
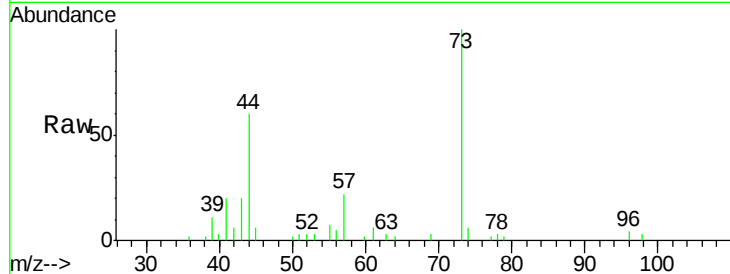
Methyl tert-Butyl Ether  
 Concen: 0.435 ug/l  
 RT: 3.42 min Scan# 646  
 Delta R.T. -0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

Tot Ion: 73 Resp: 13003  
 Ion Ratio Lower Upper  
 73 100  
 43 26.4 14.5 21.7#

Manual Integrations  
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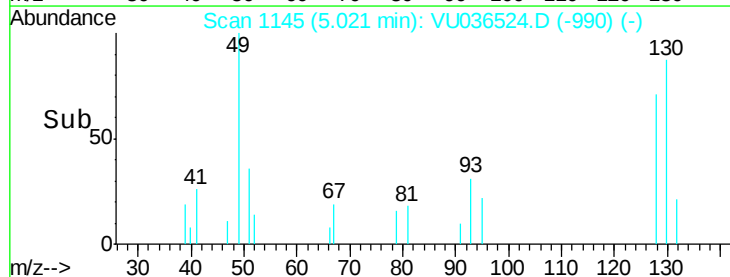
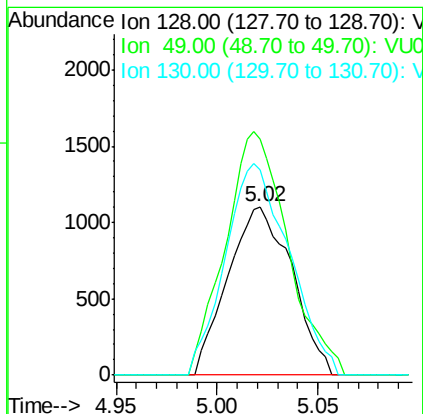
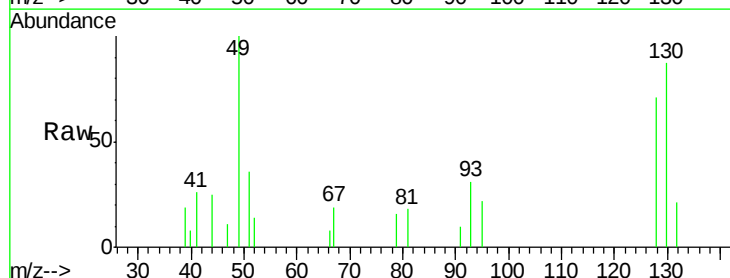
apatel  
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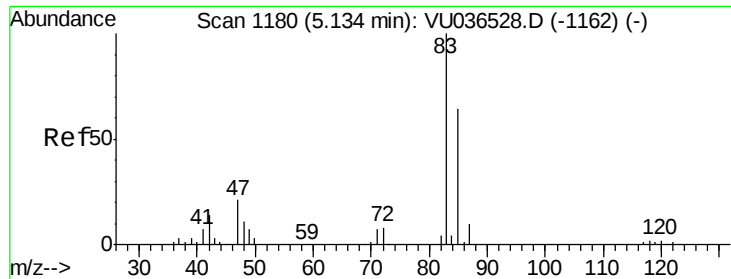


#26

Bromochloromethane  
 Concen: 0.550 ug/l  
 RT: 5.02 min Scan# 1145  
 Delta R.T. -0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

Tgt Ion: 128 Resp: 2441  
 Ion Ratio Lower Upper  
 128 100  
 49 140.8 0.0 286.2  
 130 125.2 104.3 156.5





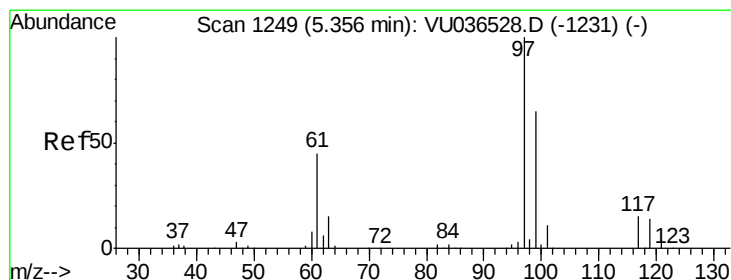
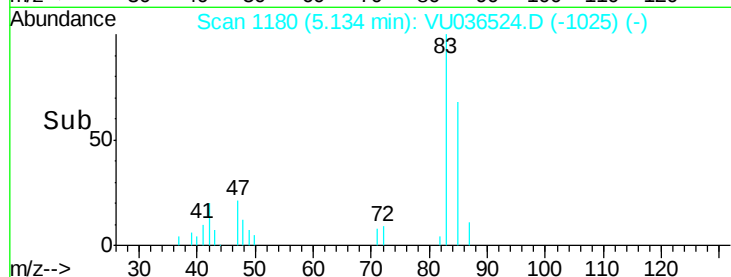
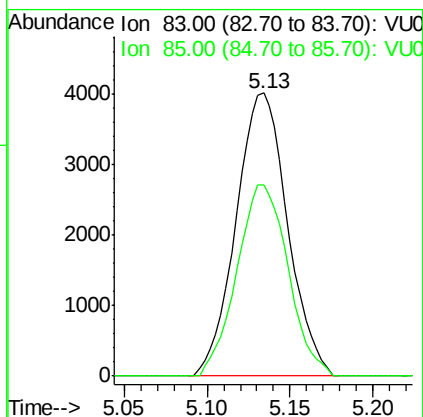
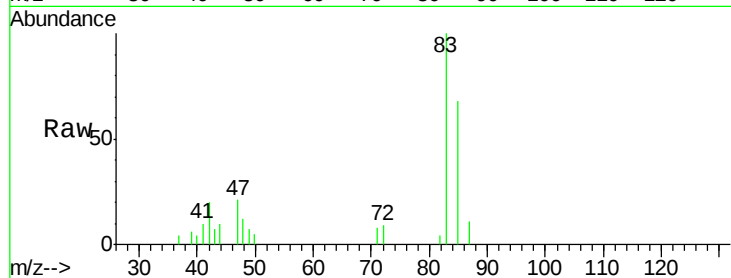
#27  
Chloroform  
Concen: 0.447 ug/l  
RT: 5.13 min Scan# 1180  
Delta R.T. -0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

Tot Ion: 83 Resp: 8700  
Ion Ratio Lower Upper  
83 100  
85 67.6 0.0 129.0

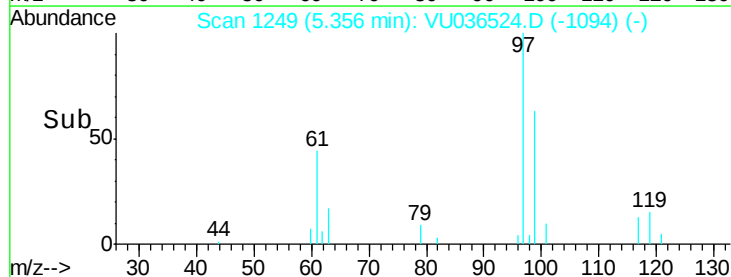
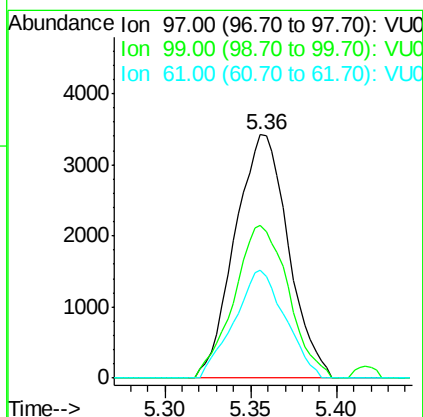
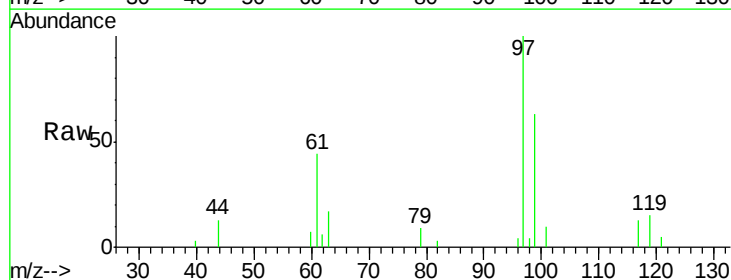
Manual Integrations  
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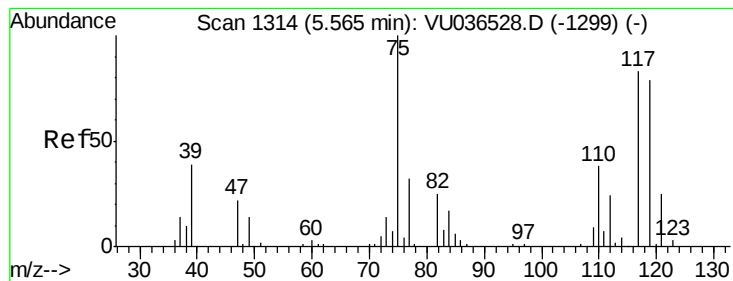
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#28  
1,1,1-Trichloroethane  
Concen: 0.429 ug/l  
RT: 5.36 min Scan# 1249  
Delta R.T. -0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Tgt Ion: 97 Resp: 7387  
Ion Ratio Lower Upper  
97 100  
99 63.6 32.1 96.3  
61 42.3 22.7 68.0





#29

1,1-Dichloropropene

Concen: 0.463 ug/l

RT: 5.56 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 7288

Ion Ratio Lower Upper

75 100

110 37.3 18.6 55.8

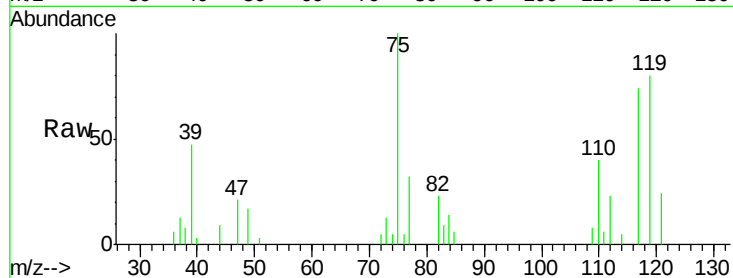
77 32.1 25.0 37.4

Manual Integrations

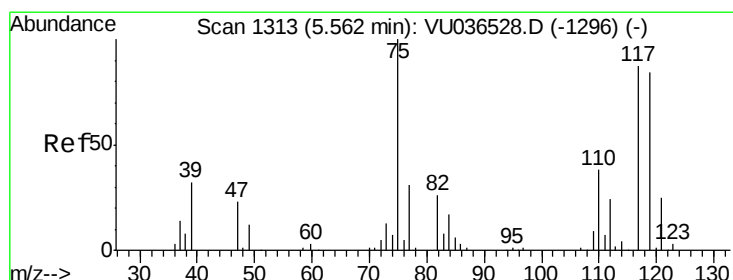
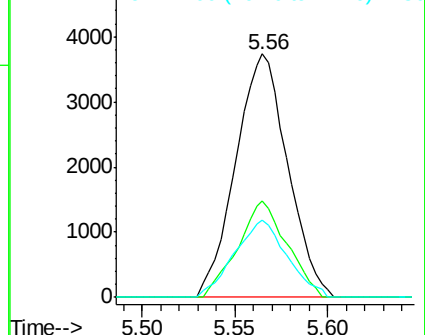
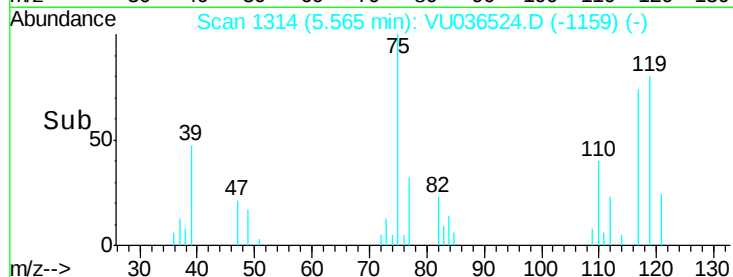
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Abundance Ion 75.00 (74.70 to 75.70): VU036524.D (-1159) (-)



#30

Carbon Tetrachloride

Concen: 0.426 ug/l

RT: 5.56 min Scan# 1313

Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

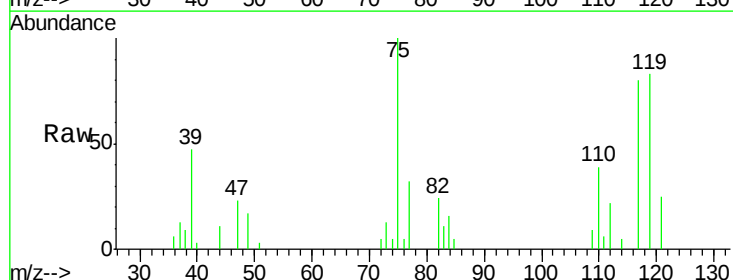
Tgt Ion: 117 Resp: 6171

Ion Ratio Lower Upper

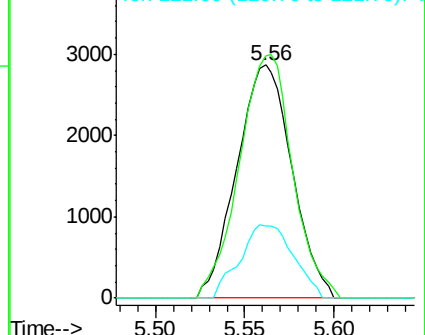
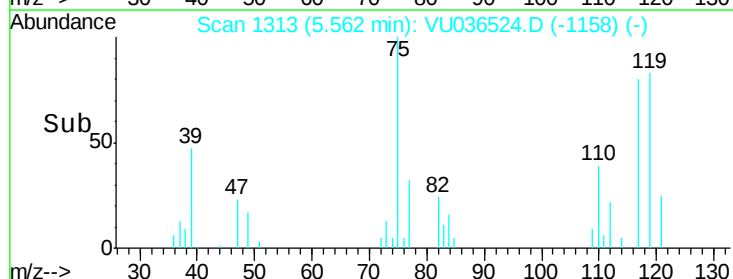
117 100

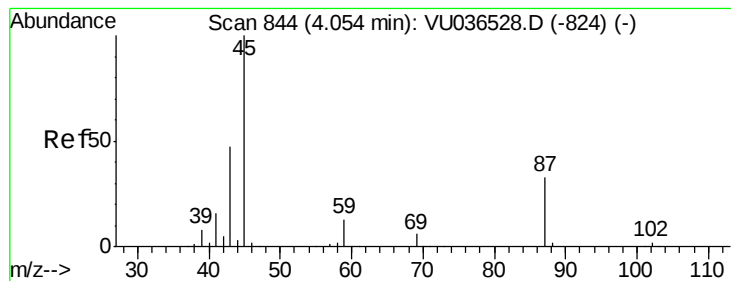
119 103.7 77.0 115.6

121 31.0 23.3 34.9



Abundance Ion 117.00 (116.70 to 117.70): VU036524.D (-1158) (-)





#31

Isopropyl Ether

Concen: 0.407 ug/l

RT: 4.06 min Scan# 845

Delta R.T. 0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 13395

Ion Ratio Lower Upper

45 100

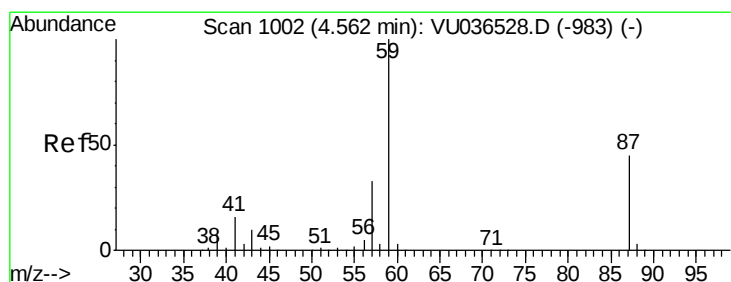
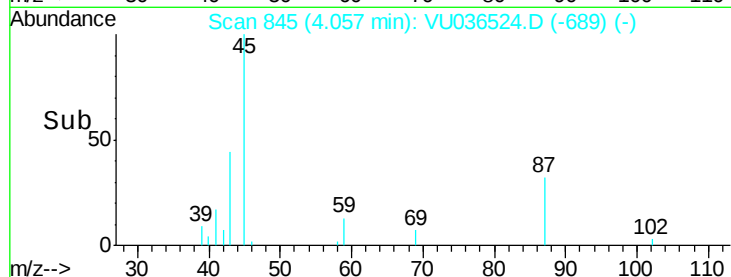
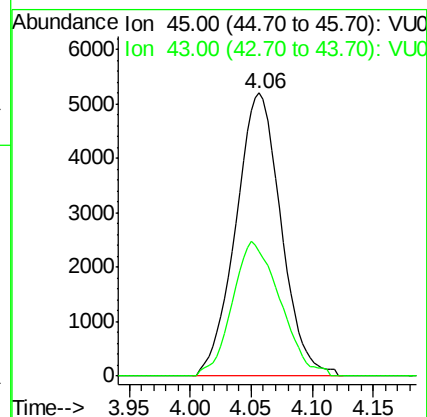
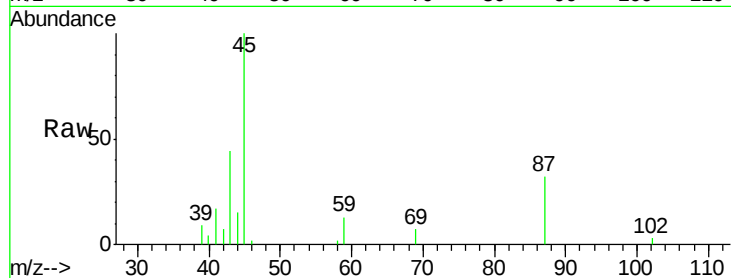
43 50.3 24.0 72.0

Manual Integrations

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#32

Ethyl-t-butyl ether

Concen: 0.440 ug/l

RT: 4.56 min Scan# 1002

Delta R.T. -0.00 min

Lab File: VU036524.D

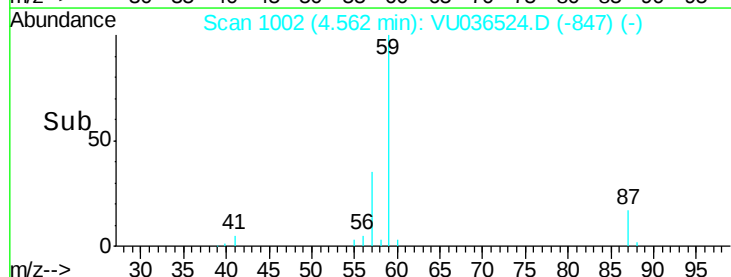
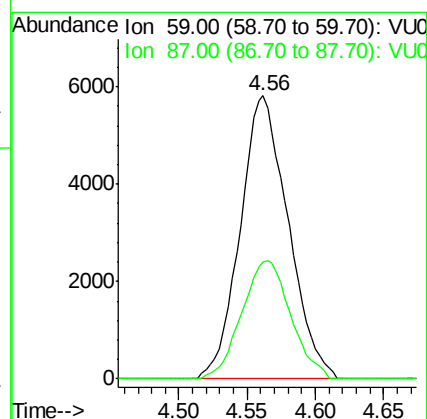
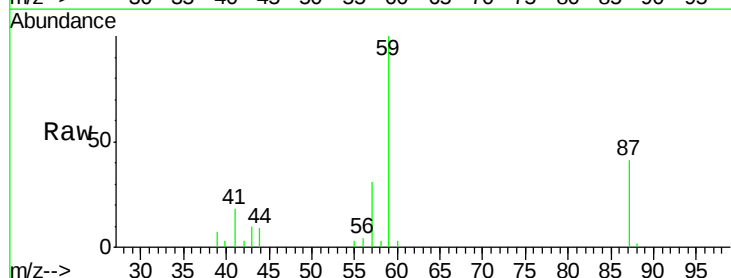
Acq: 22 Jan 2020 14:24

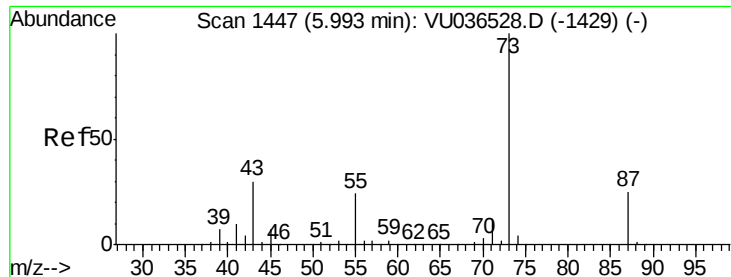
Tgt Ion: 59 Resp: 14151

Ion Ratio Lower Upper

59 100

87 42.7 35.1 52.7





#33

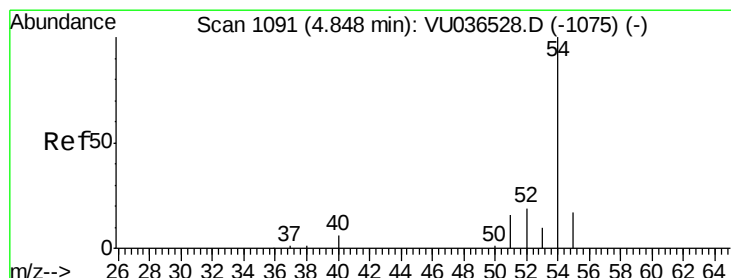
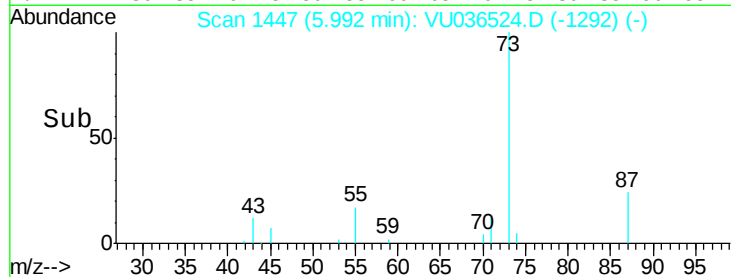
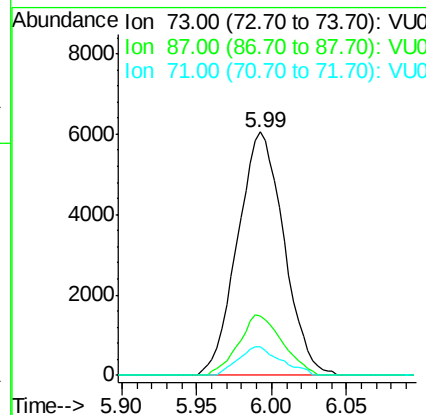
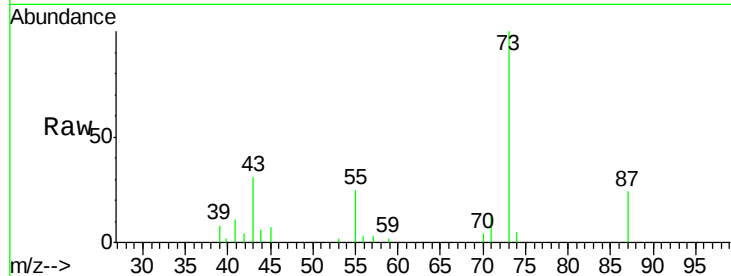
Tert-Butyl methyl ether  
Concen: 0.446 ug/l  
RT: 5.99 min Scan# 1447  
Delta R.T. -0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 87      | 23.5  | 19.8  | 29.6  |
| 71      | 10.9  | 9.1   | 13.7  |

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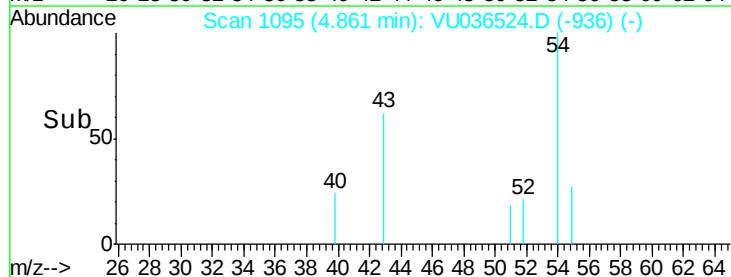
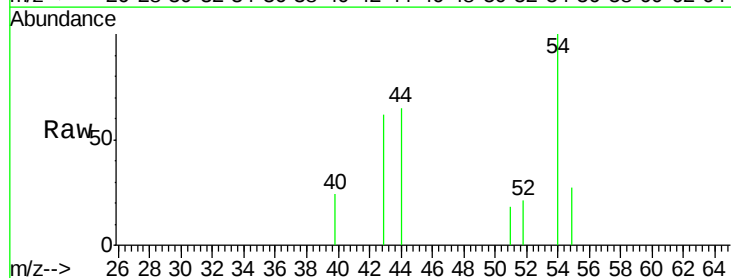
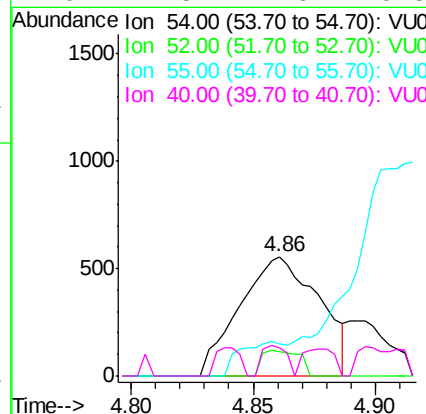
apatel  
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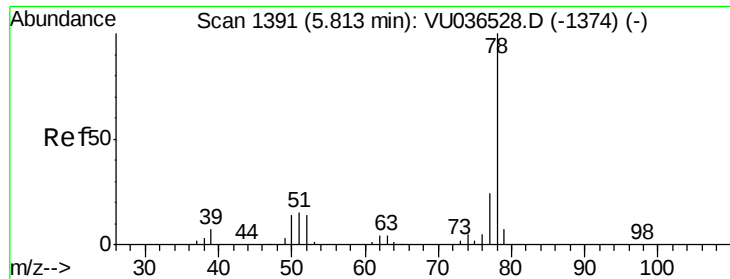


#34

Propionitrile  
Concen: 1.420 ug/l  
RT: 4.86 min Scan# 1095  
Delta R.T. 0.01 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 54      | 100   |       |       |
| 52      | 10.1  | 15.2  | 22.8# |
| 55      | 16.9  | 9.5   | 14.3# |
| 40      | 7.8   | 4.6   | 6.8#  |





#35

Benzene

Concen: 0.481 ug/l

RT: 5.81 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 78 Resp: 21150

Ion Ratio Lower Upper

78 100

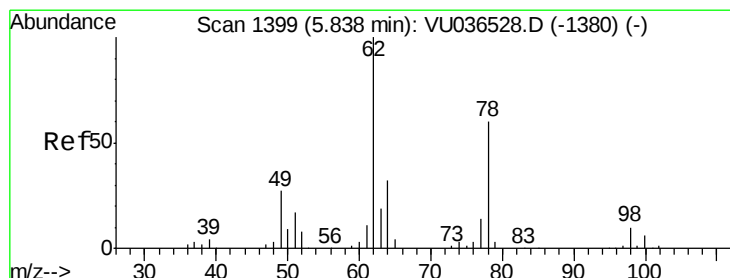
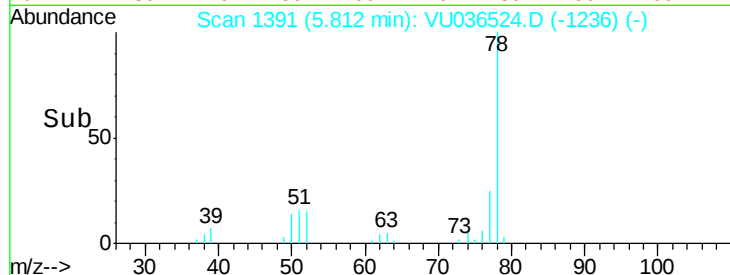
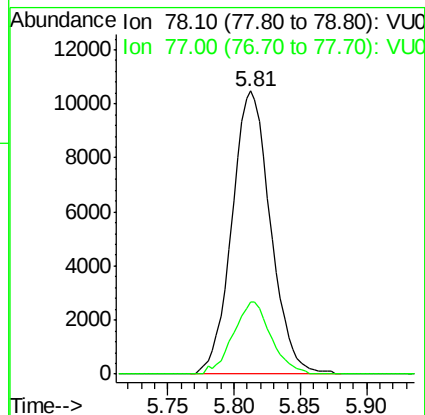
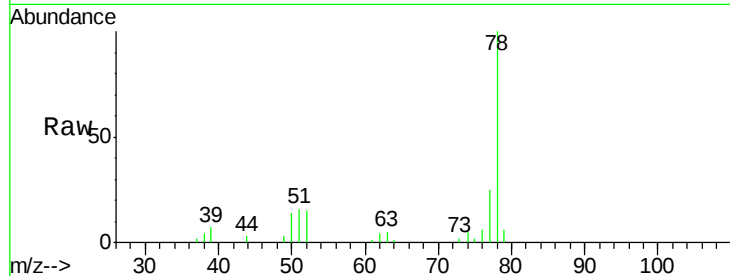
77 25.4 19.4 29.0

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#36

1,2-Dichloroethane

Concen: 0.398 ug/l

RT: 5.84 min Scan# 1399

Delta R.T. -0.00 min

Lab File: VU036524.D

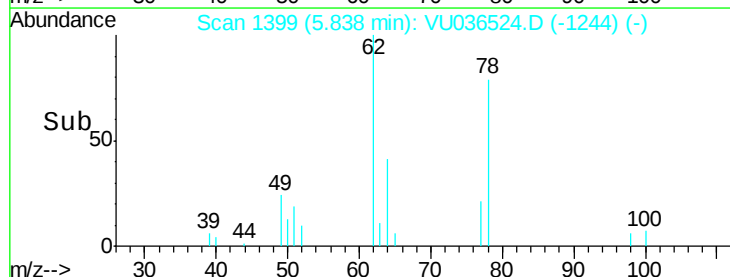
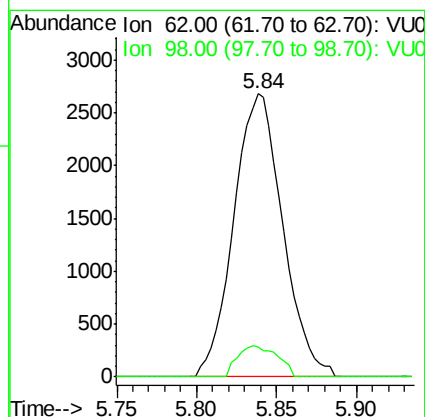
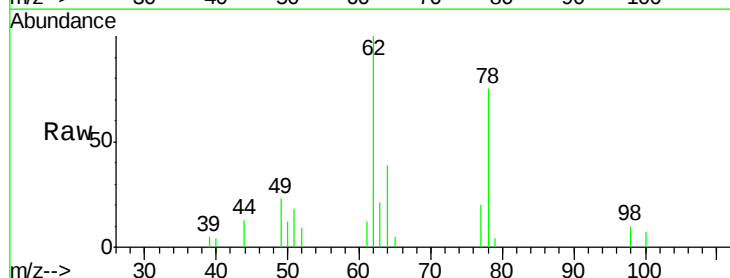
Acq: 22 Jan 2020 14:24

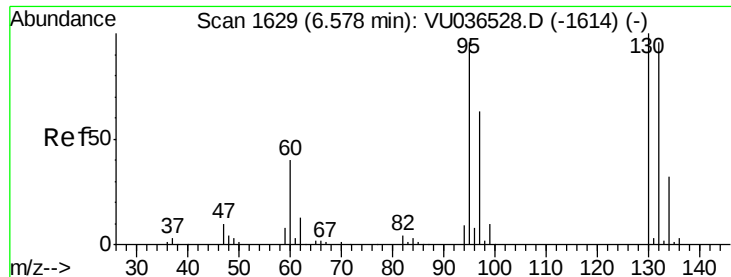
Tgt Ion: 62 Resp: 5604

Ion Ratio Lower Upper

62 100

98 8.9 7.8 11.8





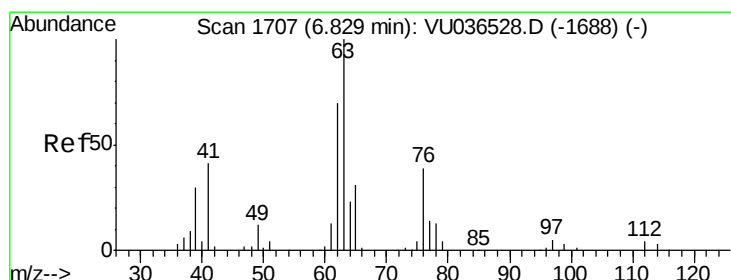
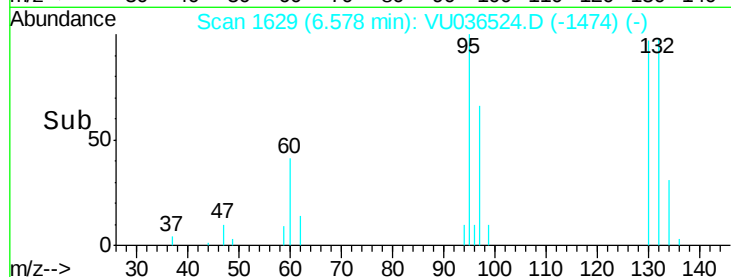
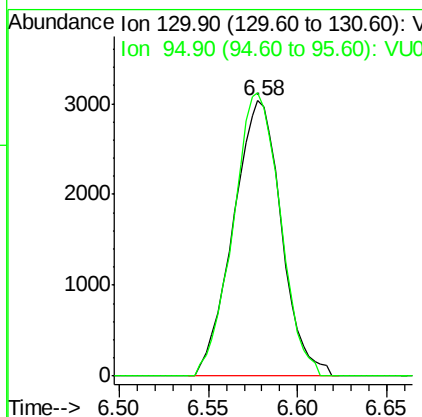
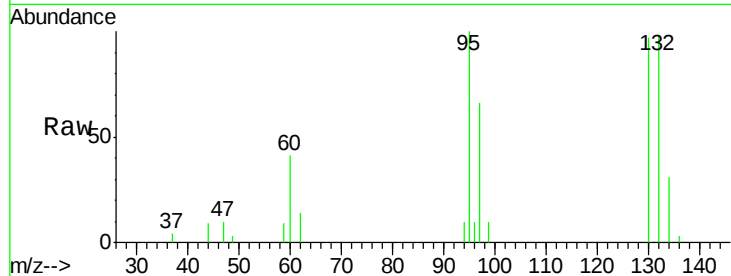
#37  
 Trichloroethene  
 Concen: 0.533 ug/l  
 RT: 6.58 min Scan# 1629  
 Delta R.T. -0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

Tot Ion:130 Resp: 5698  
 Ion Ratio Lower Upper  
 130 100  
 95 102.7 77.0 115.4

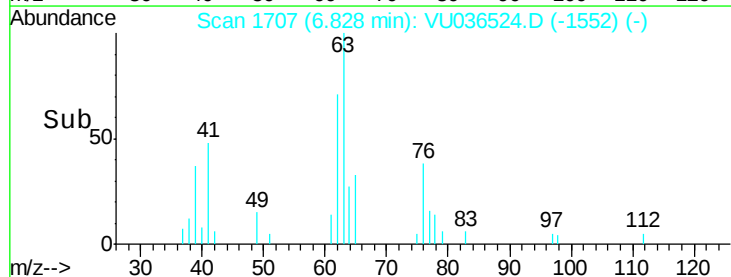
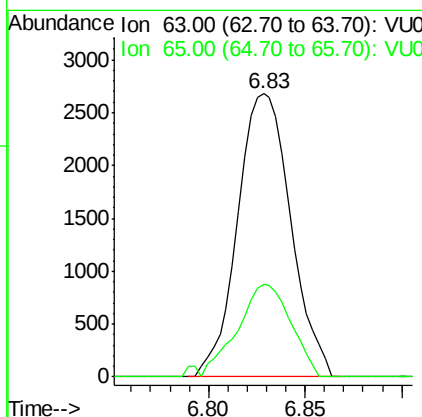
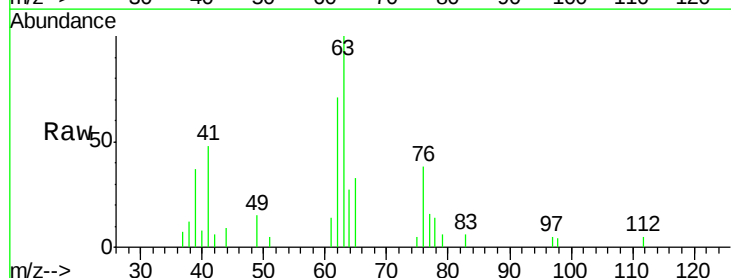
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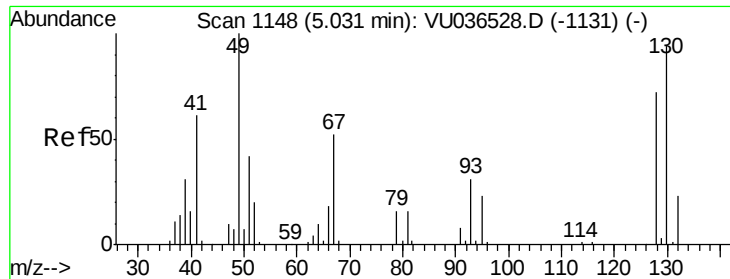
apatel  
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#38  
 1,2-Dichloropropane  
 Concen: 0.444 ug/l  
 RT: 6.83 min Scan# 1707  
 Delta R.T. -0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

Tgt Ion: 63 Resp: 5127  
 Ion Ratio Lower Upper  
 63 100  
 65 32.9 24.7 37.1





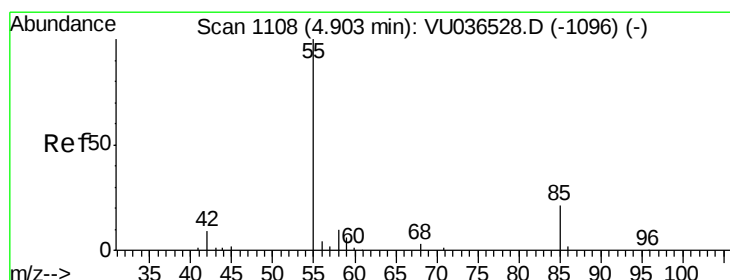
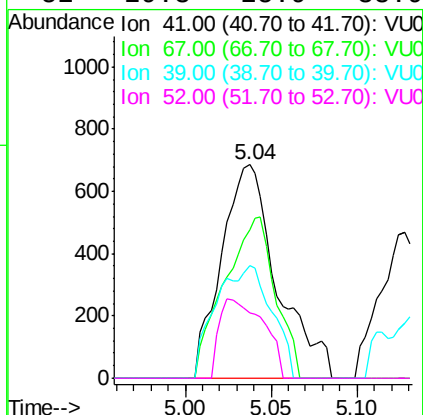
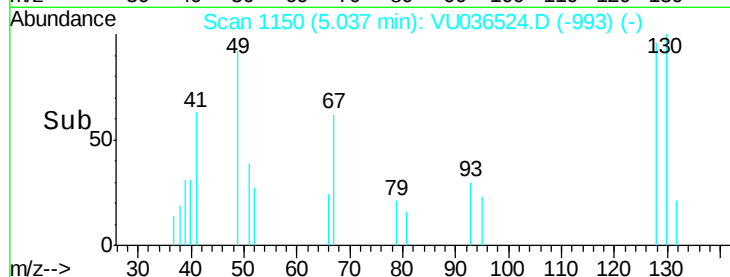
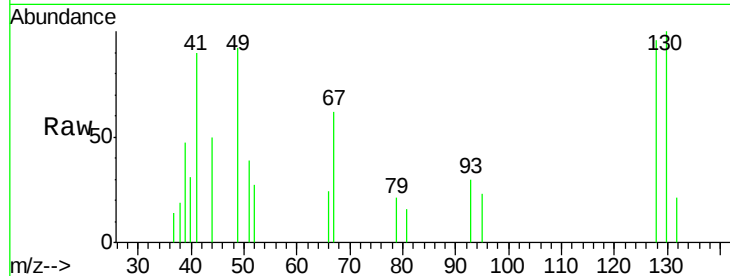
#39  
Methacrylonitrile  
Concen: 0.370 ug/l  
RT: 5.04 min Scan# 1150  
Delta R.T. 0.01 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 1551   |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 67       | 68.4  | 69.6  | 104.4# |
| 39       | 52.7  | 41.6  | 62.4   |
| 52       | 29.3  | 25.9  | 38.9   |

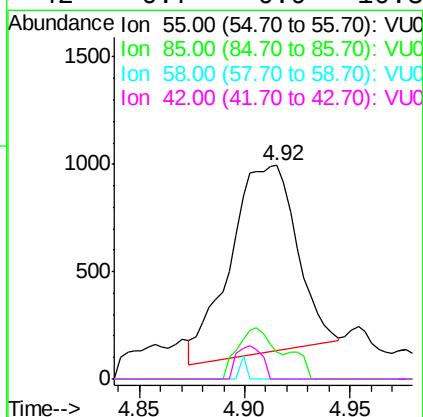
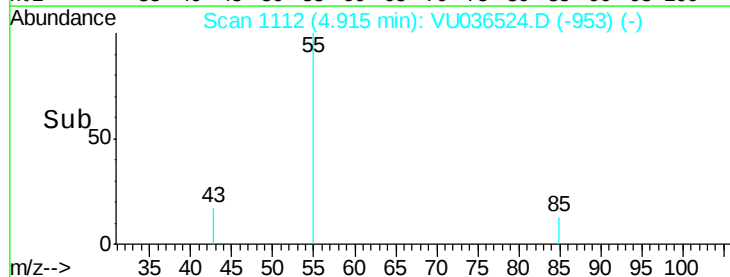
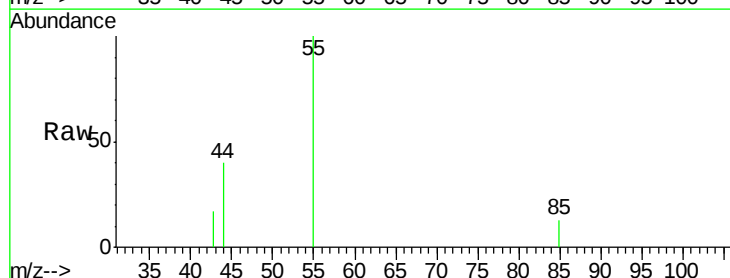
Manual Integrations  
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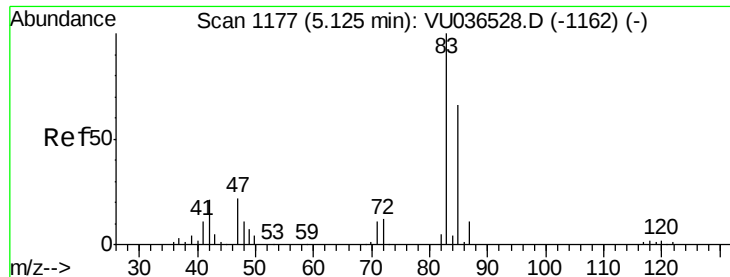
apatel  
1/23/2020 3:21:22 PM



#40  
Methyl acrylate  
Concen: 0.307 ug/l  
RT: 4.92 min Scan# 1112  
Delta R.T. 0.01 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 55    | Resp: | 1905  |
| Ion      | Ratio | Lower | Upper |
| 55       | 100   |       |       |
| 85       | 18.7  | 14.7  | 22.1  |
| 58       | 1.1   | 7.1   | 10.7# |
| 42       | 6.7   | 6.9   | 10.3# |





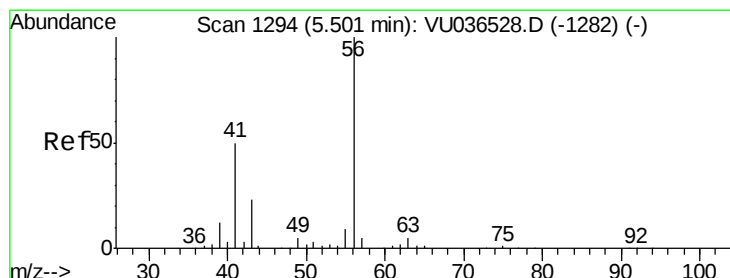
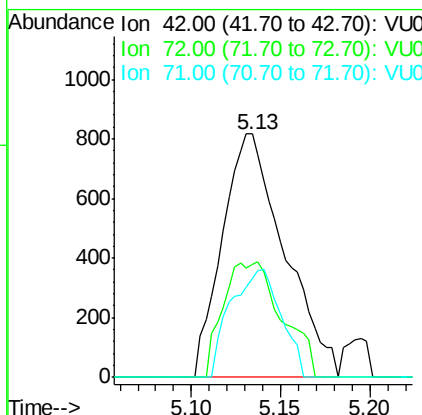
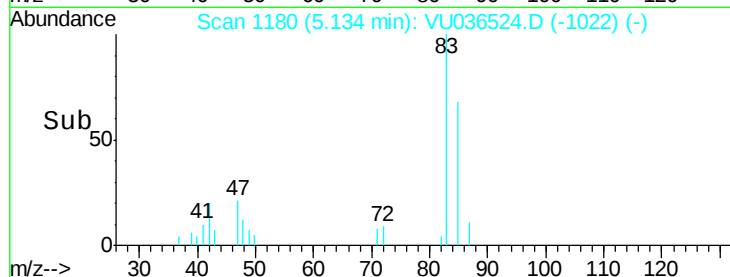
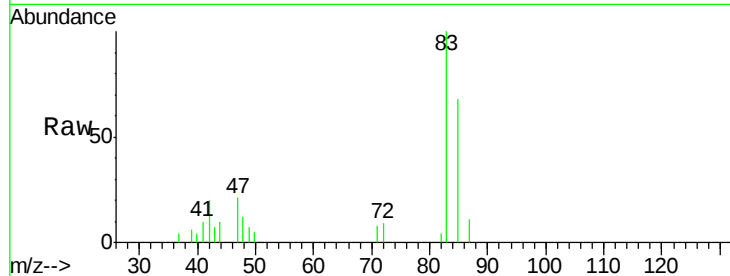
#41  
Tetrahydrofuran  
Concen: 0.911 ug/l  
RT: 5.13 min Scan# 1180  
Delta R.T. 0.01 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Instrument :  
MSVOA\_U  
ClientSampled :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 19.4  | 42.5  | 63.7# |
| 71      | 35.9  | 37.3  | 55.9# |

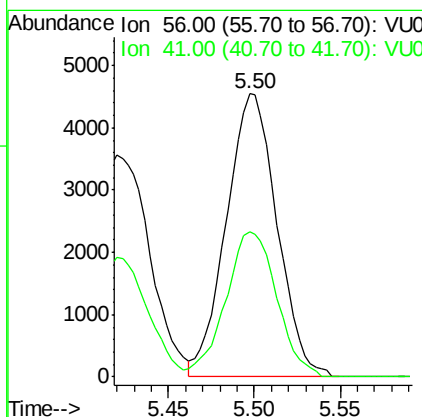
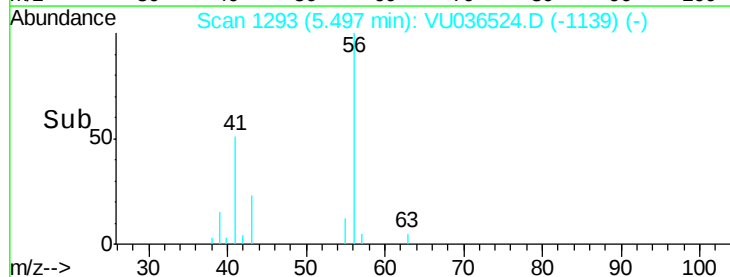
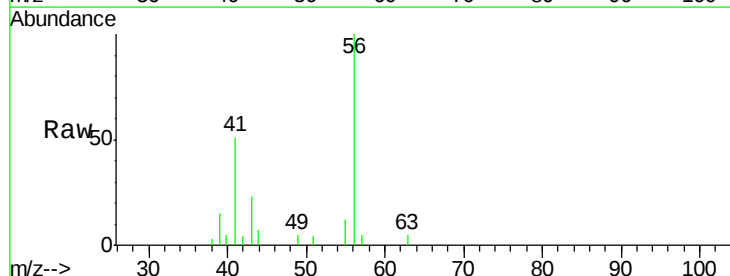
Manual Integrations  
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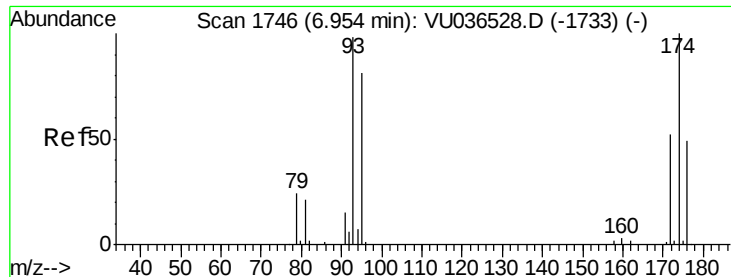
apatel  
1/23/2020 3:21:22 PM



#42  
1-Chlorobutane  
Concen: 0.409 ug/l  
RT: 5.50 min Scan# 1293  
Delta R.T. -0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 41      | 51.8  | 24.8  | 74.3  |





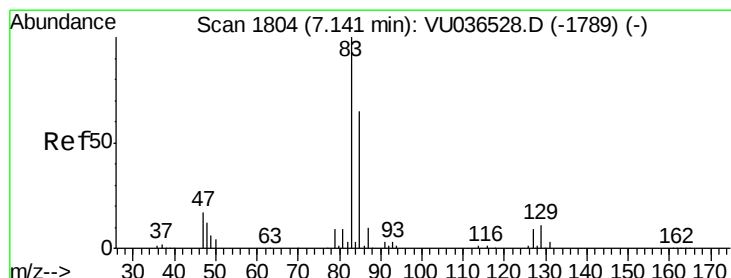
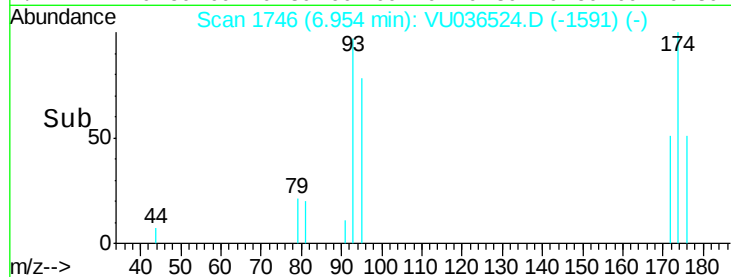
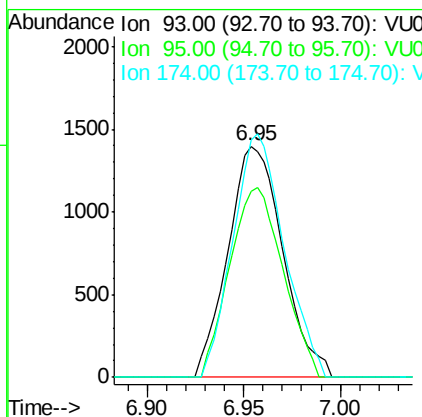
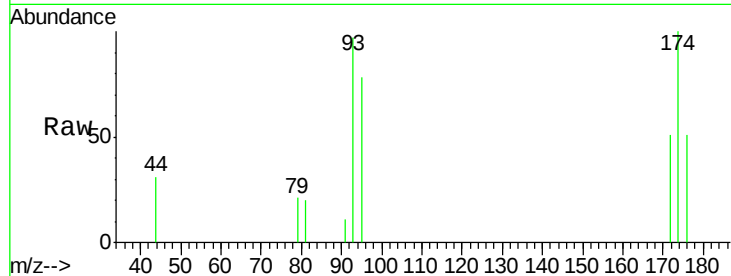
#43  
 Dibromomethane  
 Concen: 0.464 ug/l  
 RT: 6.95 min Scan# 1746  
 Delta R.T. -0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 79.8  | 67.9  | 101.9 |
| 174     | 98.4  | 83.4  | 125.0 |

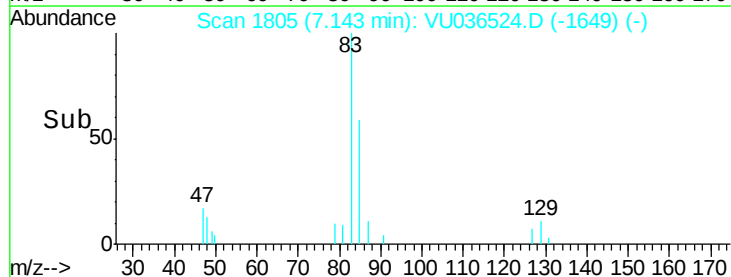
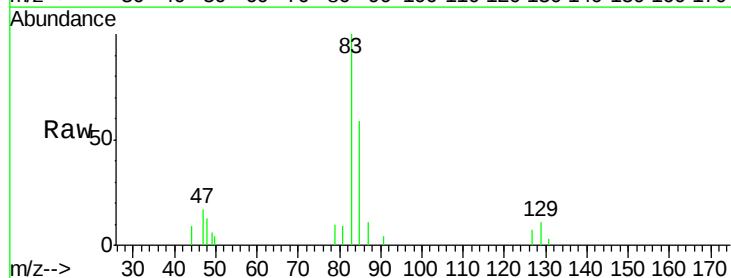
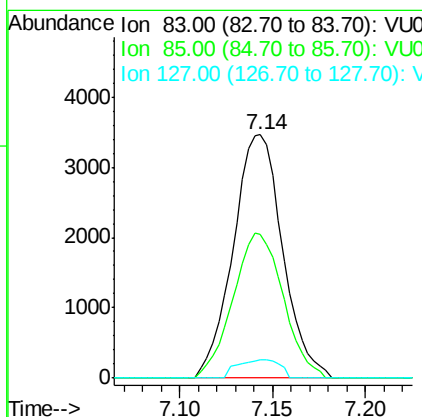
Manual Integrations  
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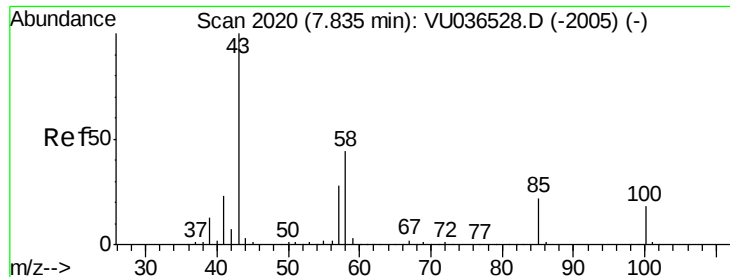
apatel  
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#44  
 Bromodichloromethane  
 Concen: 0.420 ug/l  
 RT: 7.14 min Scan# 1805  
 Delta R.T. 0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 59.2  | 51.8  | 77.6  |
| 127     | 7.4   | 6.8   | 10.2  |





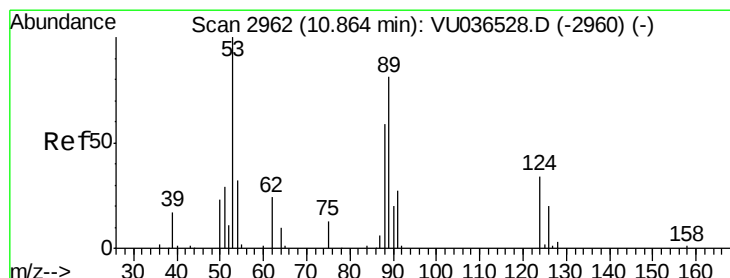
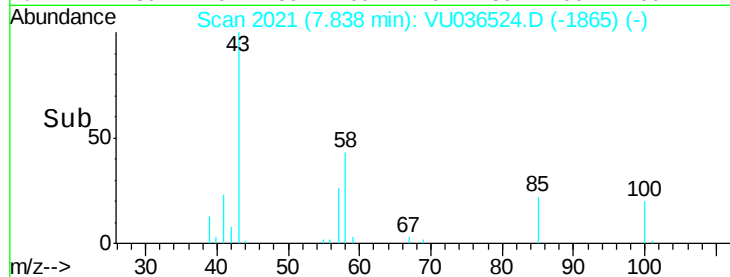
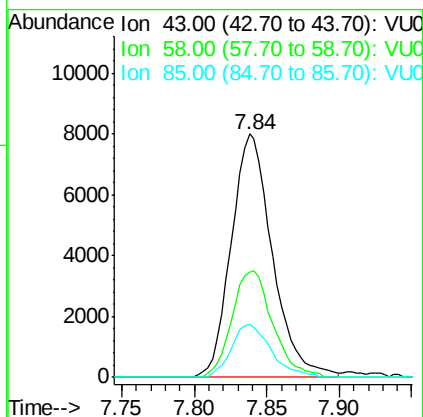
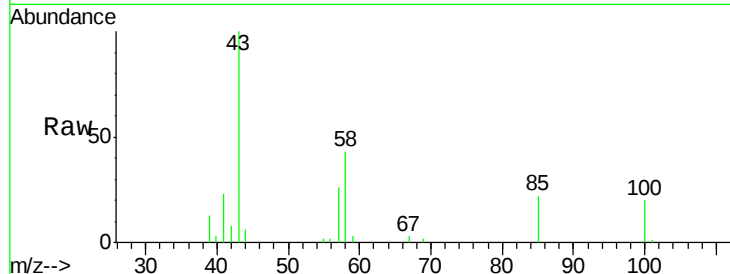
#45  
4-Methyl-2-Pentanone  
Concen: 1.922 ug/l  
RT: 7.84 min Scan# 2021  
Delta R.T. 0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Instrument :  
MSVOA\_U  
ClientSampled :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 43.2  | 22.1  | 66.1  |
| 85      | 21.1  | 17.4  | 26.0  |

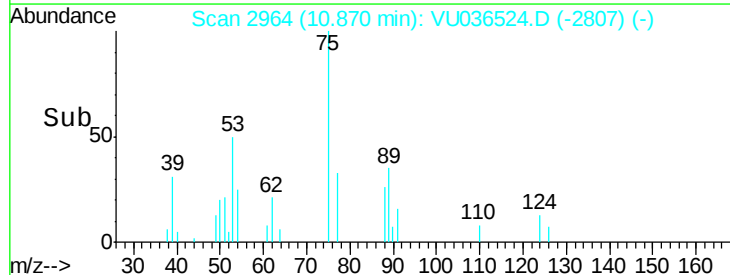
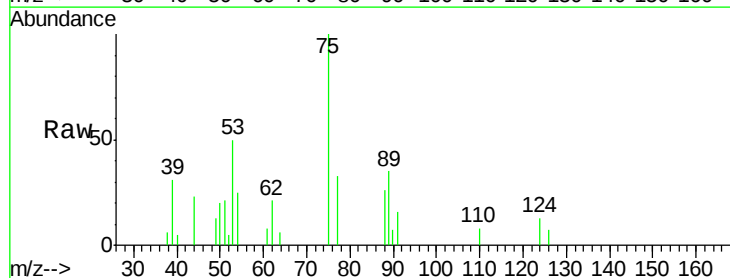
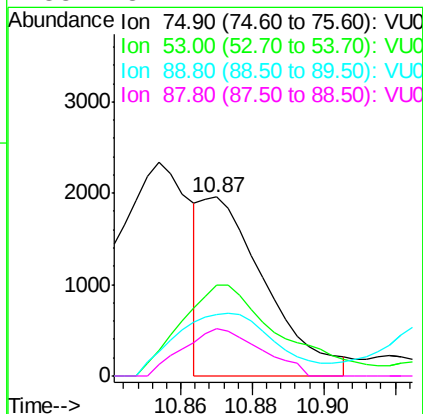
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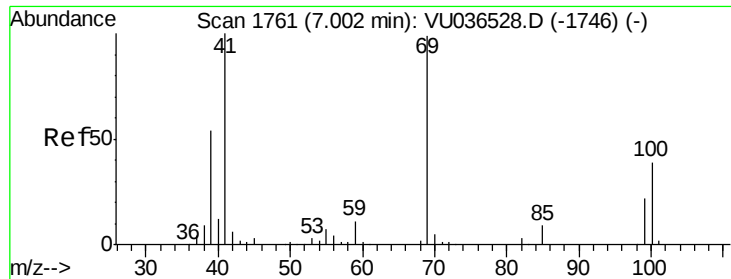
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#46  
t-1,4-Dichloro-2-butene  
Concen: 0.729 ug/l m  
RT: 10.87 min Scan# 2964  
Delta R.T. 0.01 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 79.9  | 52.2  | 78.2# |
| 89      | 54.4  | 39.8  | 59.6  |
| 88      | 32.2  | 27.4  | 41.2  |





#47

Methyl methacrylate

Concen: 0.943 ug/l

RT: 7.01 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

Instrument :

MSVOA\_U

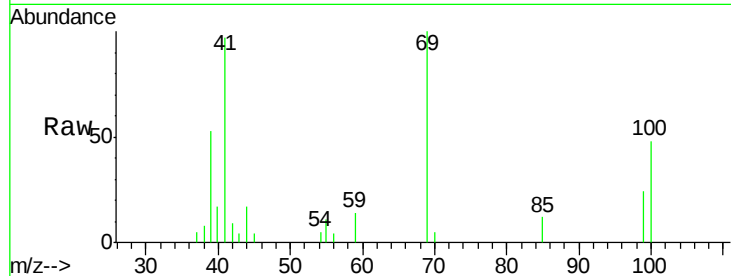
ClientSampleId :

VSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 69.00 | Resp: | 5340  |
| Ion Ratio | Lower | Upper |       |
| 69        | 100   |       |       |
| 41        | 93.1  | 0.0   | 200.8 |
| 39        | 49.4  | 43.5  | 65.3  |
| 100       | 38.5  | 31.1  | 46.7  |

Manual Integrations  
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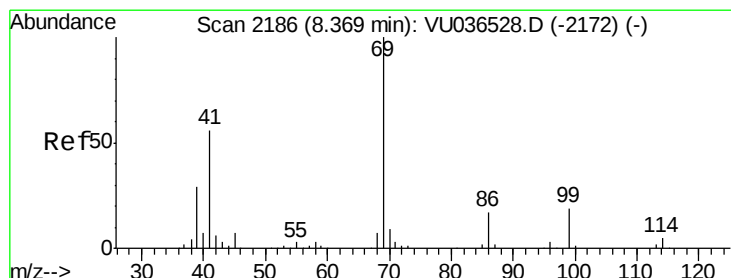
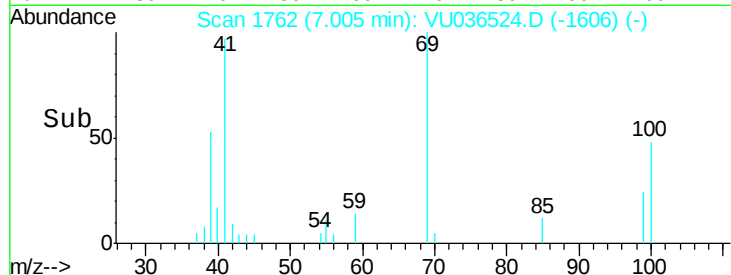
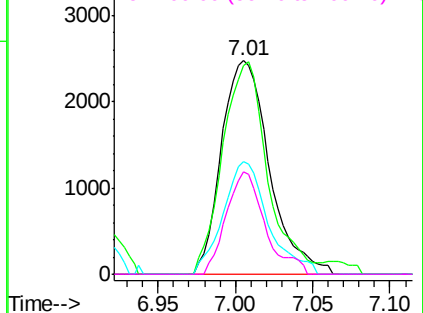


Abundance Ion 69.00 (68.70 to 69.70): VU036524.D (-1606) (-)

Ion 41.00 (40.70 to 41.70): VU036524.D (-1606) (-)

Ion 39.00 (38.70 to 39.70): VU036524.D (-1606) (-)

Ion 100.00 (99.70 to 100.70): VU036524.D (-1606) (-)



#48

Ethyl methacrylate

Concen: 0.436 ug/l

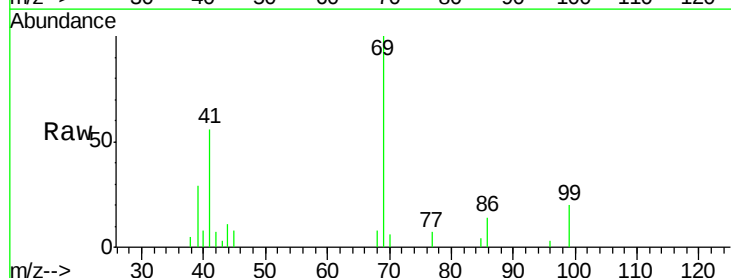
RT: 8.37 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VU036524.D

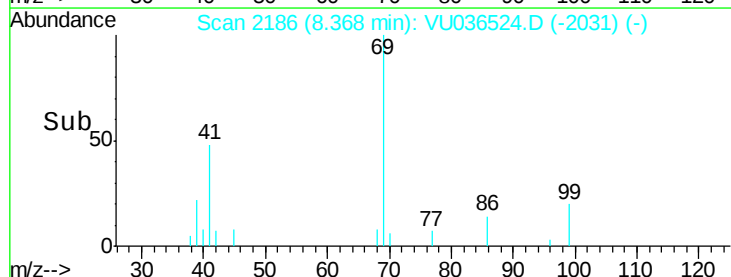
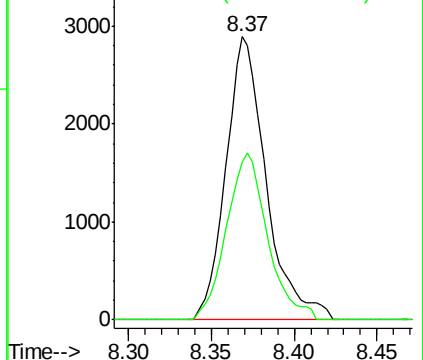
Acq: 22 Jan 2020 14:24

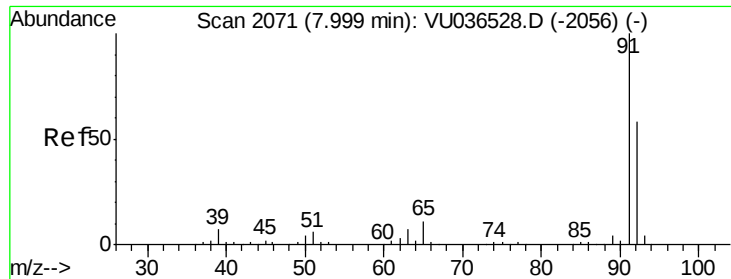
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 69.00 | Resp: | 4873 |
| Ion Ratio | Lower | Upper |      |
| 69        | 100   |       |      |
| 41        | 60.1  | 27.9  | 83.6 |



Abundance Ion 69.00 (68.70 to 69.70): VU036524.D (-2031) (-)

Ion 41.00 (40.70 to 41.70): VU036524.D (-2031) (-)





#49

Toluene

Concen: 0.497 ug/l

RT: 8.00 min Scan# 2071

Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 92 Resp: 13562

Ion Ratio Lower Upper

92 100

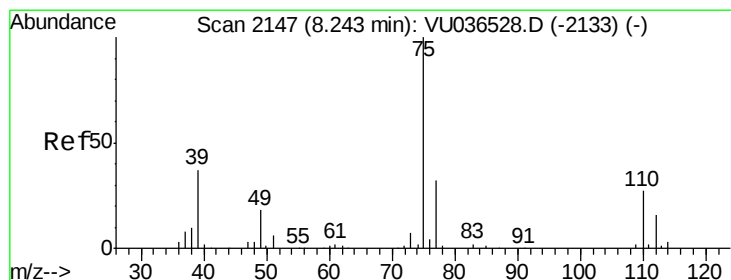
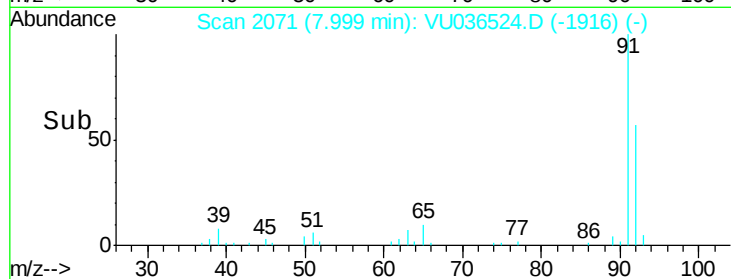
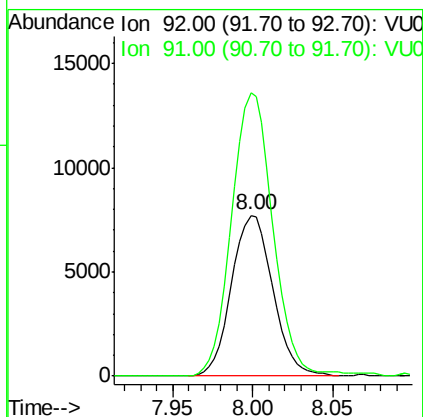
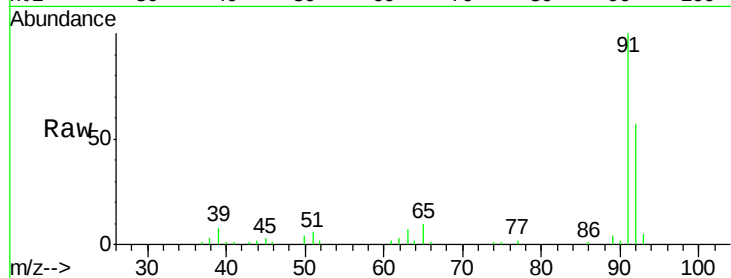
91 177.1 139.1 208.7

Manual Integrations

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#50

t-1,3-Dichloropropene

Concen: 0.412 ug/l

RT: 8.24 min Scan# 2147

Delta R.T. -0.00 min

Lab File: VU036524.D

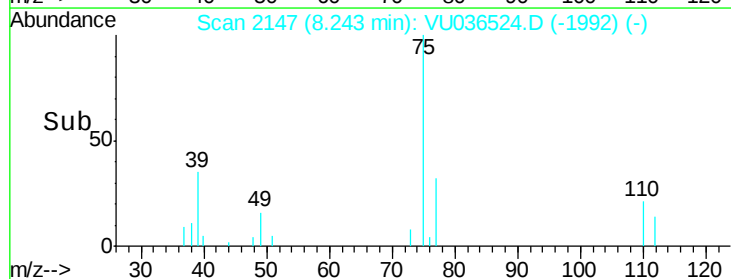
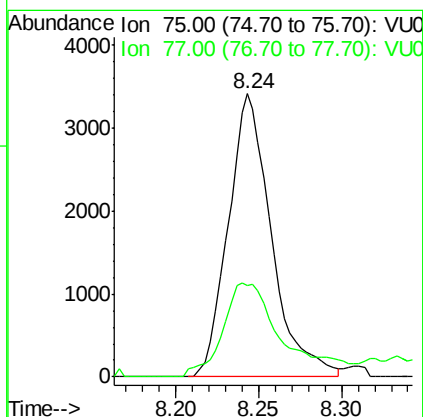
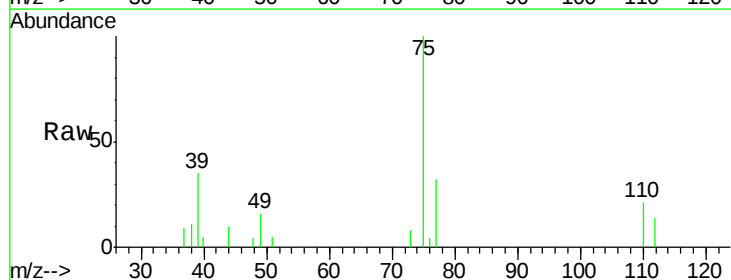
Acq: 22 Jan 2020 14:24

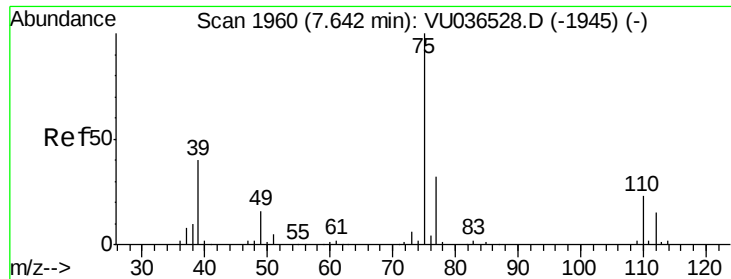
Tgt Ion: 75 Resp: 6182

Ion Ratio Lower Upper

75 100

77 29.3 25.4 38.2





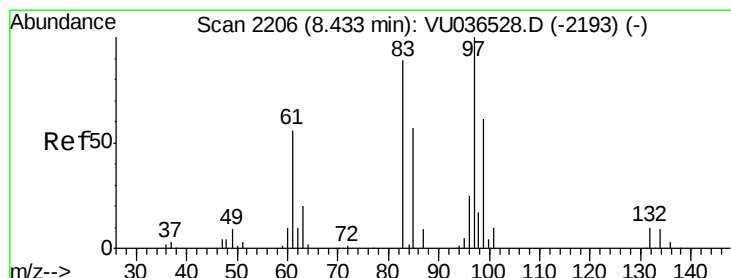
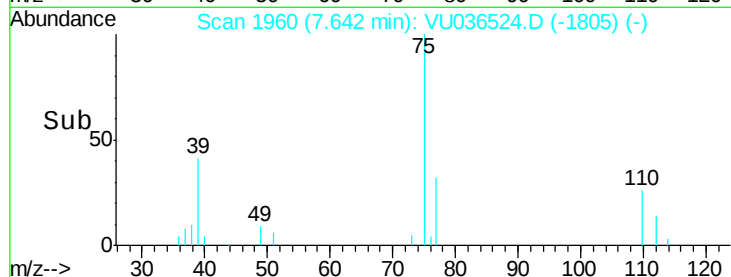
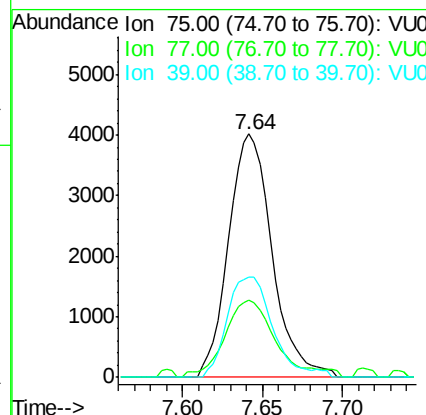
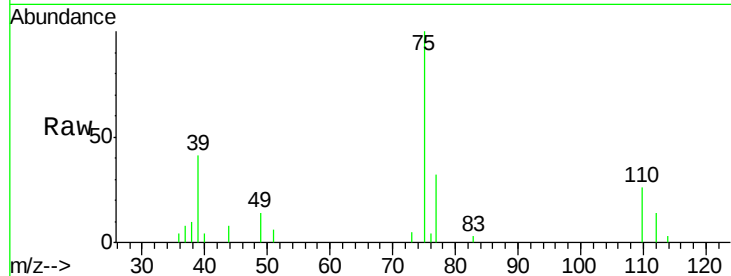
#51  
 cis-1,3-Dichloropropene  
 Concen: 0.432 ug/l  
 RT: 7.64 min Scan# 1960  
 Delta R.T. -0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.5  | 25.3  | 37.9  |
| 39      | 41.3  | 31.8  | 47.6  |

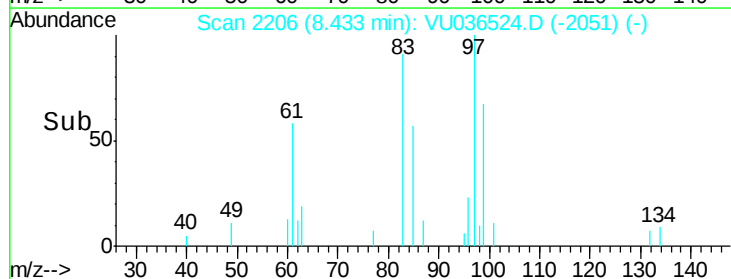
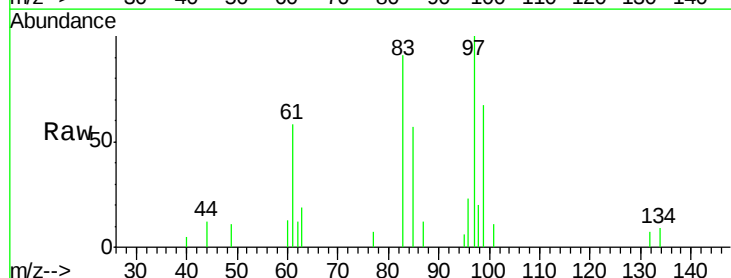
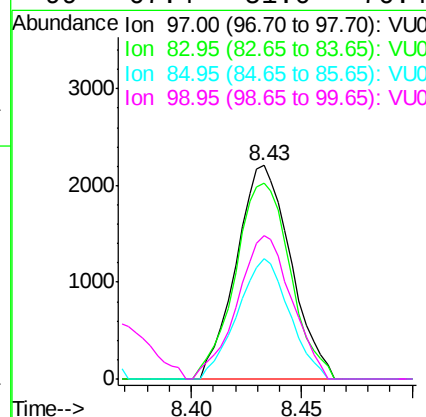
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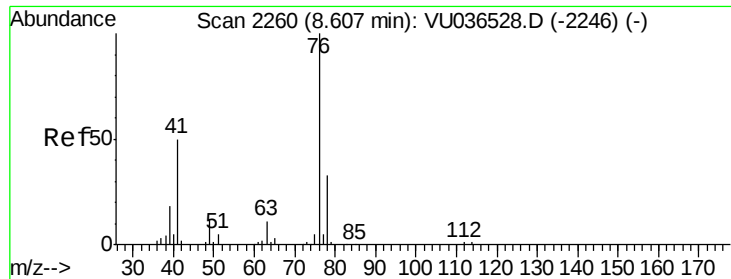
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#52  
 1,1,2-Trichloroethane  
 Concen: 0.482 ug/l  
 RT: 8.43 min Scan# 2206  
 Delta R.T. -0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 91.4  | 70.9  | 106.3 |
| 85      | 56.6  | 45.6  | 68.4  |
| 99      | 67.4  | 51.0  | 76.4  |





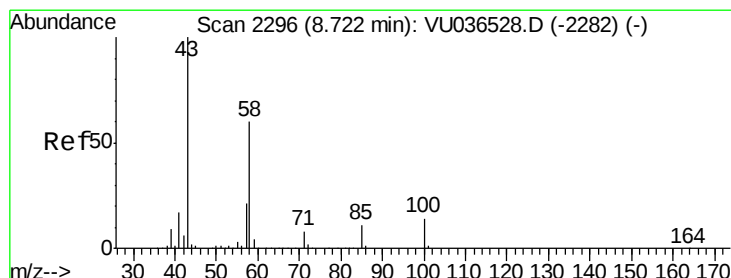
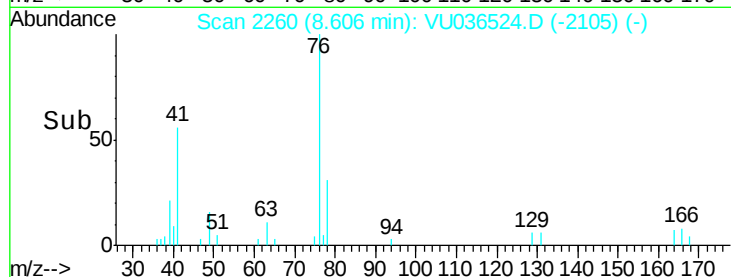
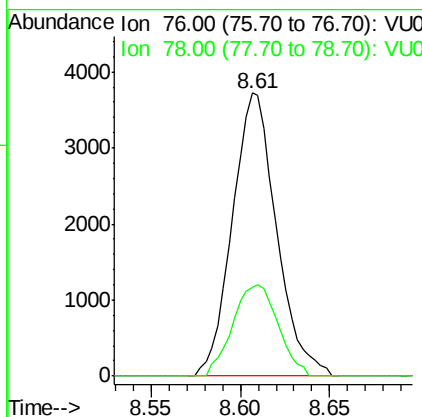
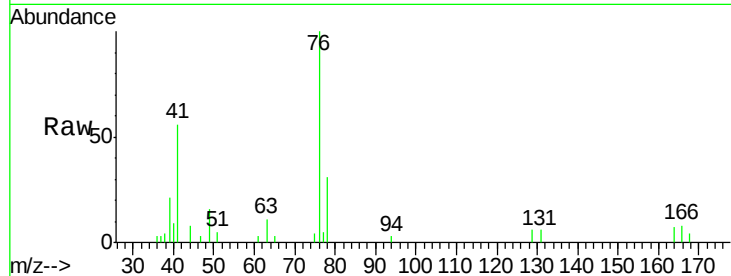
#53  
 1,3-Dichloropropane  
 Concen: 0.437 ug/l  
 RT: 8.61 min Scan# 2260  
 Delta R.T. -0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

Tot Ion: 76 Resp: 6414  
 Ion Ratio Lower Upper  
 76 100  
 78 33.0 25.4 38.2

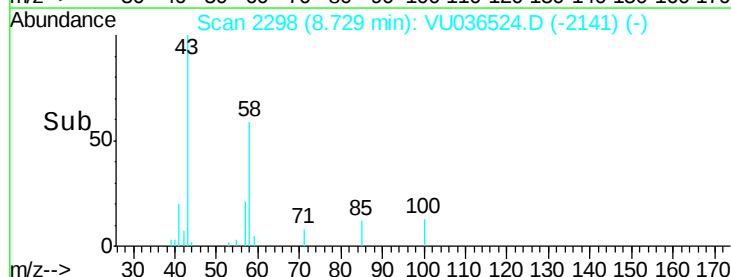
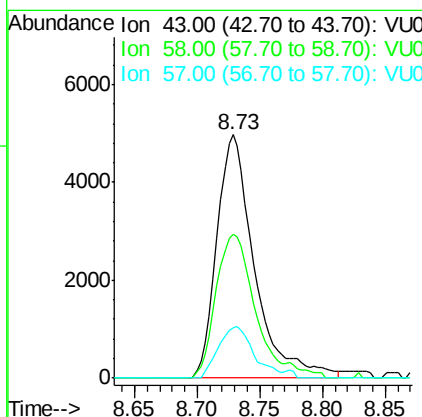
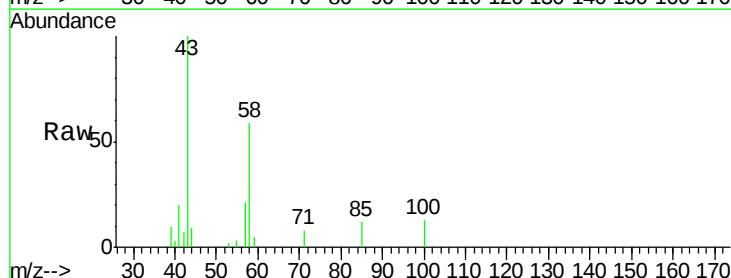
Manual Integrations  
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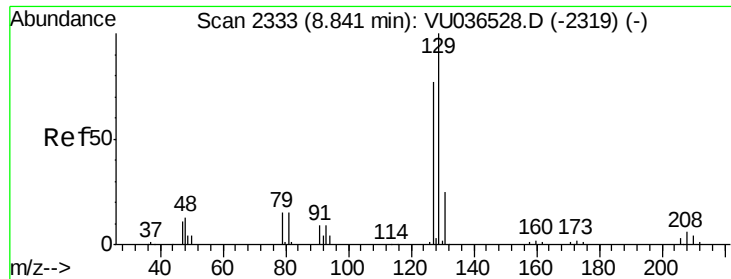
apatel  
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#54  
 2-Hexanone  
 Concen: 1.836 ug/l  
 RT: 8.73 min Scan# 2298  
 Delta R.T. 0.01 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

Tgt Ion: 43 Resp: 10375  
 Ion Ratio Lower Upper  
 43 100  
 58 62.2 40.6 80.6  
 57 19.8 1.2 41.2





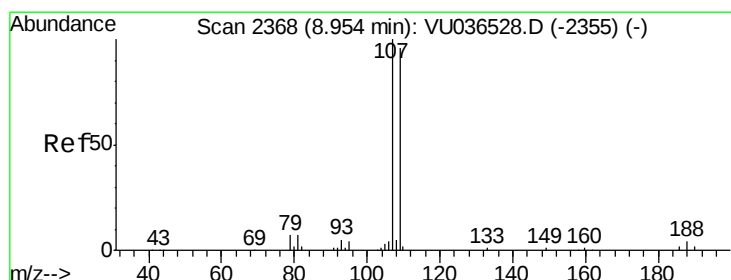
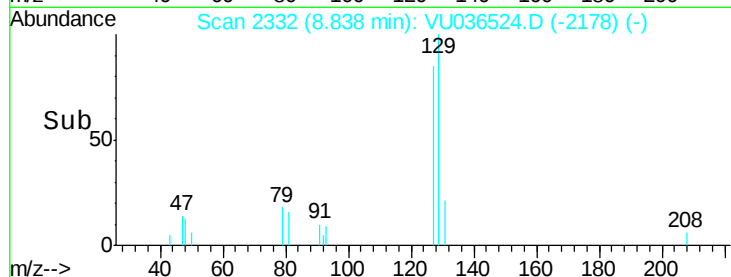
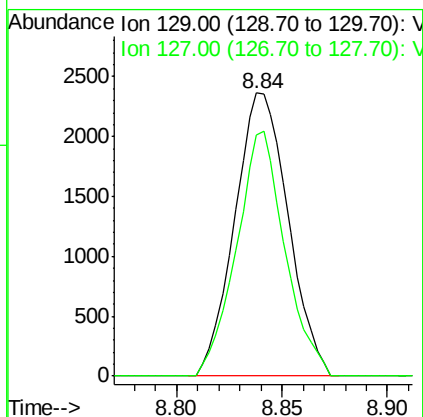
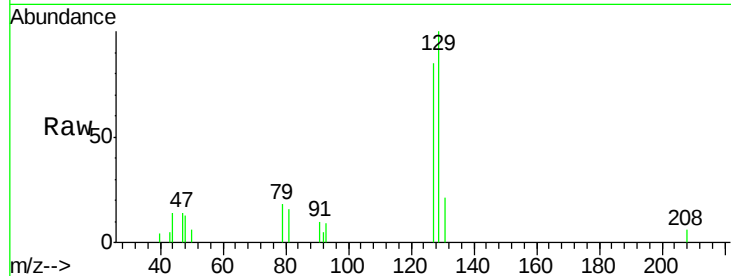
#55  
Dibromochloromethane  
Concen: 0.452 ug/l  
RT: 8.84 min Scan# 2332  
Delta R.T. -0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

Tot Ion:129 Resp: 4170  
Ion Ratio Lower Upper  
129 100  
127 78.2 62.6 94.0

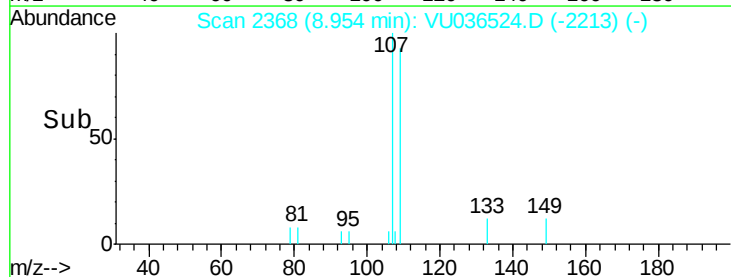
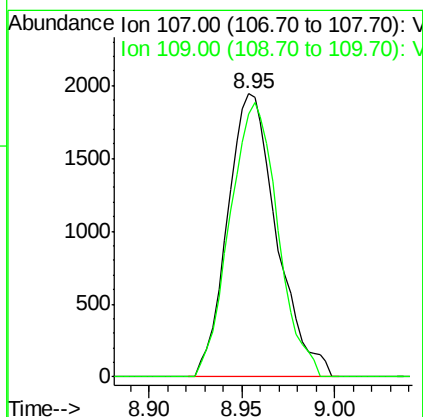
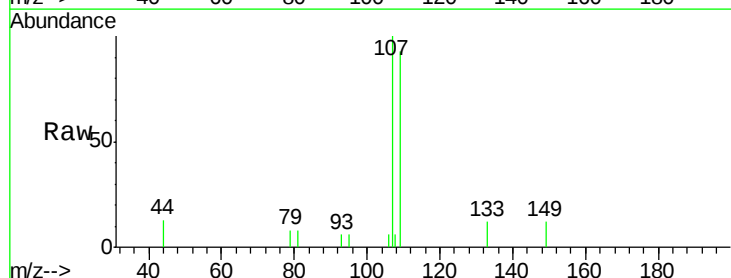
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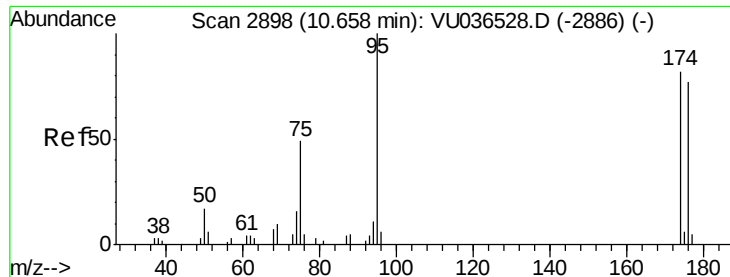
apatel  
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#56  
1,2-Dibromoethane  
Concen: 0.462 ug/l  
RT: 8.95 min Scan# 2368  
Delta R.T. -0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Tgt Ion:107 Resp: 3576  
Ion Ratio Lower Upper  
107 100  
109 94.4 0.0 190.8





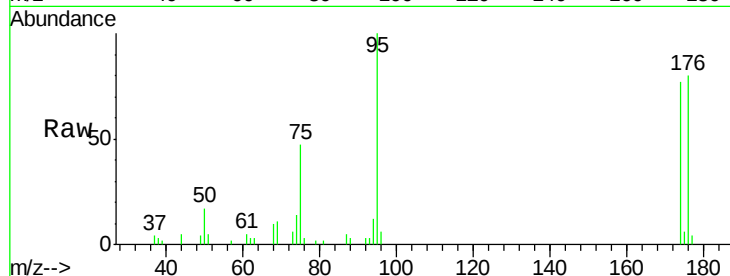
#57  
4-Bromofluorobenzene  
Concen: 0.997 ug/l  
RT: 10.66 min Scan# 2898  
Delta R.T. -0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 81.6  | 64.7  | 97.1  |
| 176     | 80.5  | 60.6  | 91.0  |

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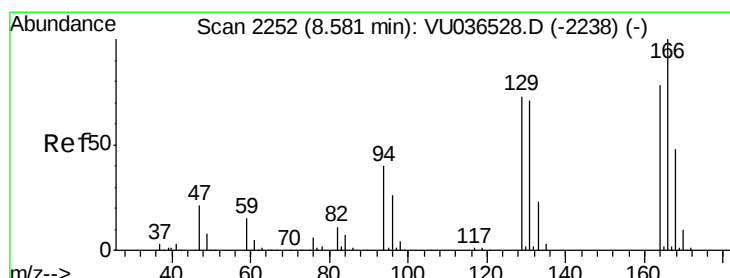
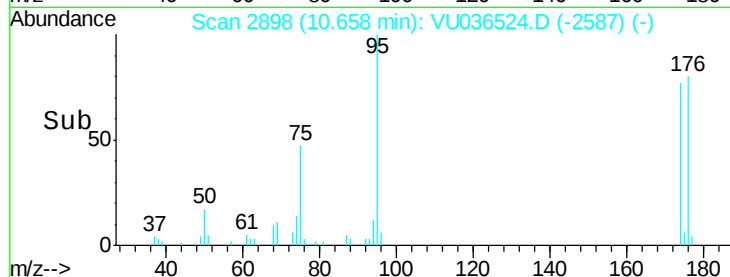
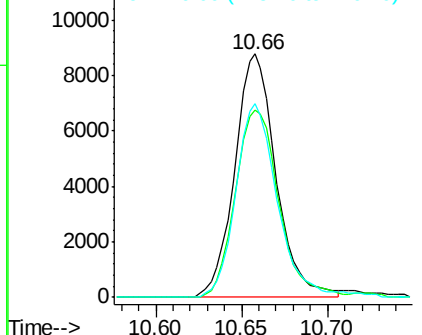


Abundance

Ion 95.00 (94.70 to 95.70): VU036524.D (-2587) (-)

Ion 174.00 (173.70 to 174.70): VU036524.D (-2587) (-)

Ion 176.00 (175.70 to 176.70): VU036524.D (-2587) (-)



#58  
Tetrachloroethene  
Concen: 0.579 ug/l  
RT: 8.58 min Scan# 2252  
Delta R.T. -0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 124.5 | 102.0 | 153.0 |
| 129     | 94.2  | 74.9  | 112.3 |
| 131     | 85.8  | 72.6  | 108.8 |

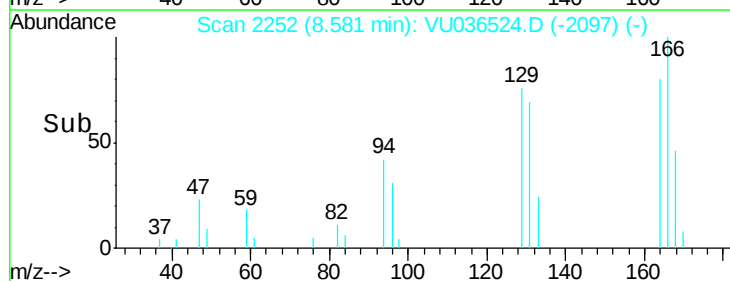
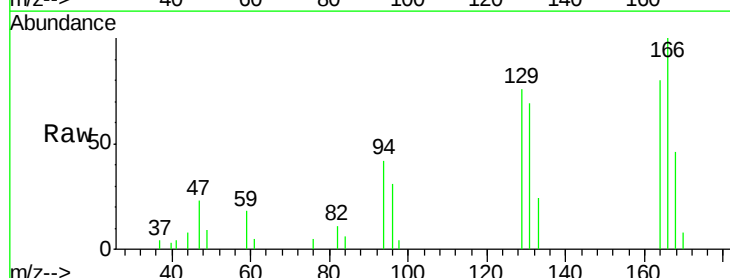
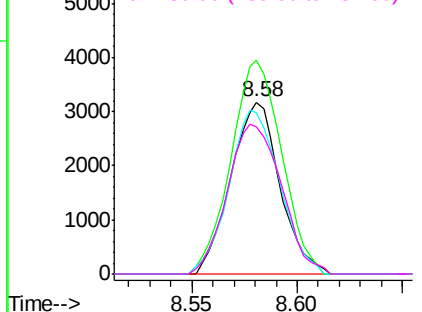
Abundance

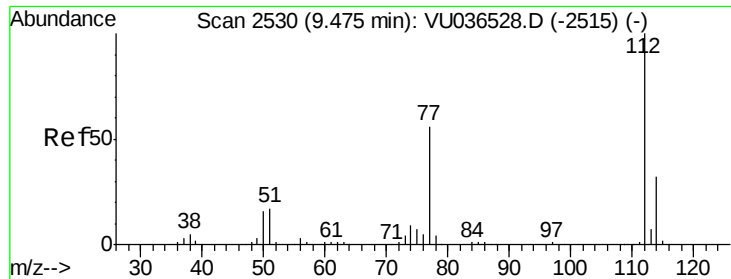
Ion 163.85 (163.55 to 164.55): VU036524.D (-2097) (-)

Ion 165.80 (165.50 to 166.50): VU036524.D (-2097) (-)

Ion 128.90 (128.60 to 129.60): VU036524.D (-2097) (-)

Ion 130.90 (130.60 to 131.60): VU036524.D (-2097) (-)





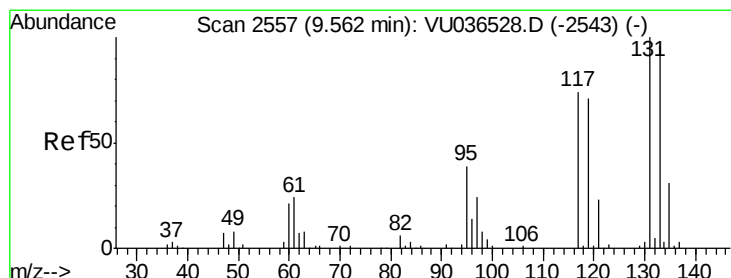
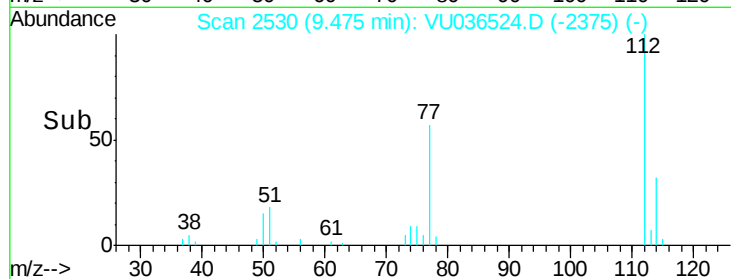
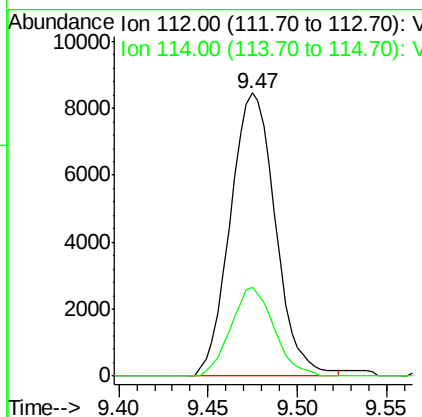
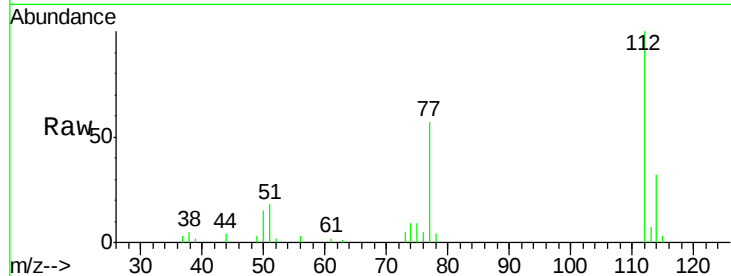
#59  
Chlorobenzene  
Concen: 0.519 ug/l  
RT: 9.47 min Scan# 2530  
Delta R.T. -0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

Tot Ion:112 Resp: 14960  
Ion Ratio Lower Upper  
112 100  
114 31.5 25.8 38.8

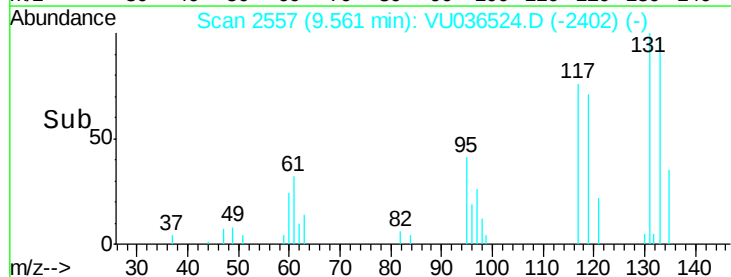
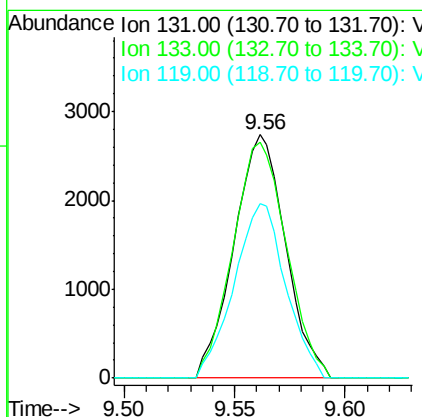
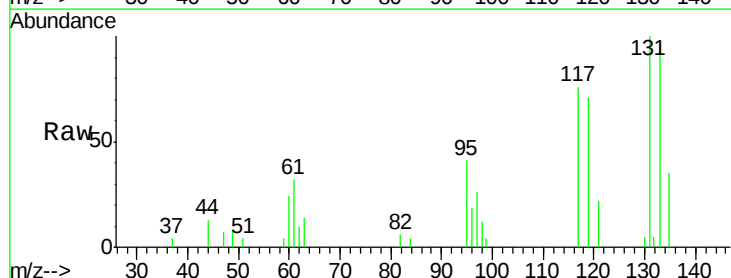
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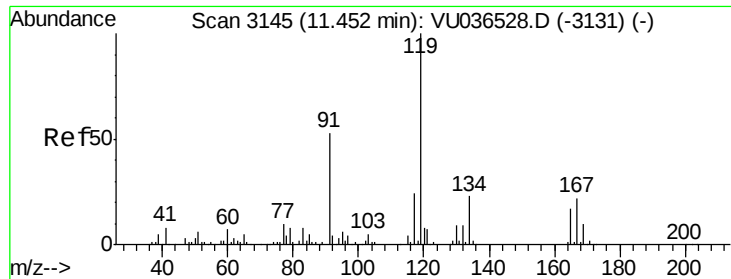
apatel  
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#60  
1,1,1,2-Tetrachloroethane  
Concen: 0.456 ug/l  
RT: 9.56 min Scan# 2557  
Delta R.T. -0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Tgt Ion:131 Resp: 4451  
Ion Ratio Lower Upper  
131 100  
133 100.3 76.4 114.6  
119 71.3 56.6 85.0





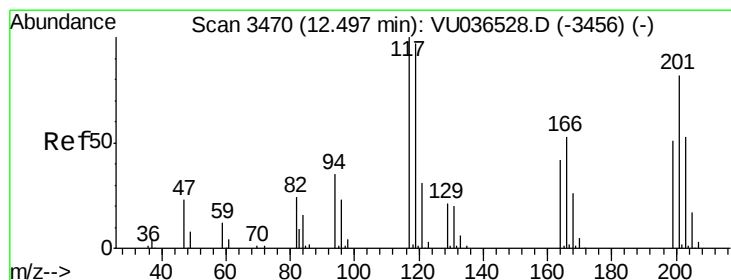
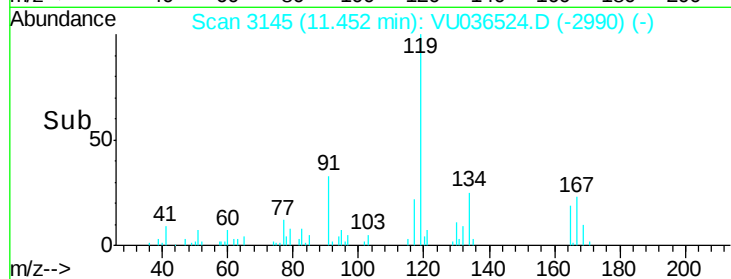
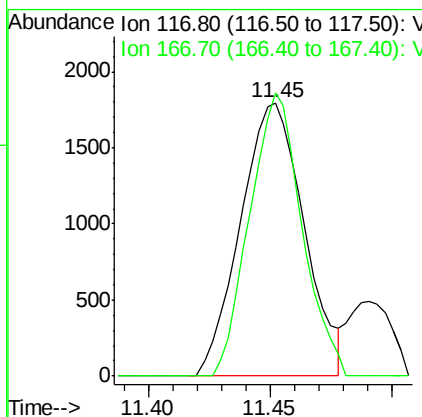
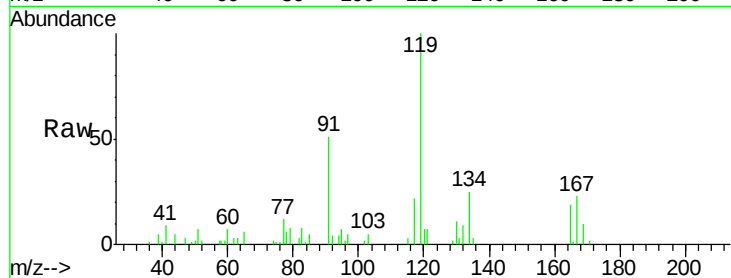
#61  
 Pentachloroethane  
 Concen: 0.404 ug/l  
 RT: 11.45 min Scan# 3145  
 Delta R.T. -0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

Tot Ion:117 Resp: 3242  
 Ion Ratio Lower Upper  
 117 100  
 167 85.0 66.7 100.1

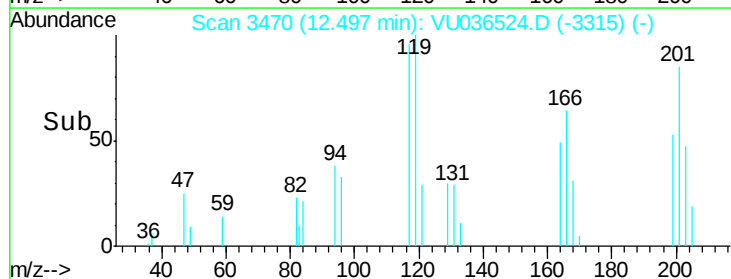
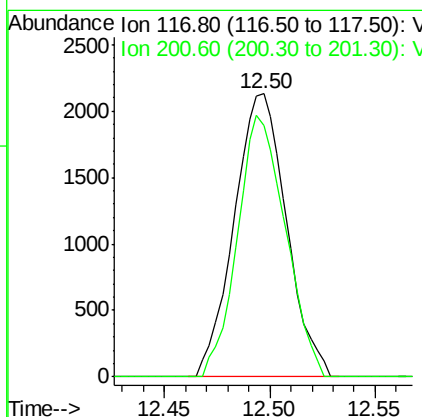
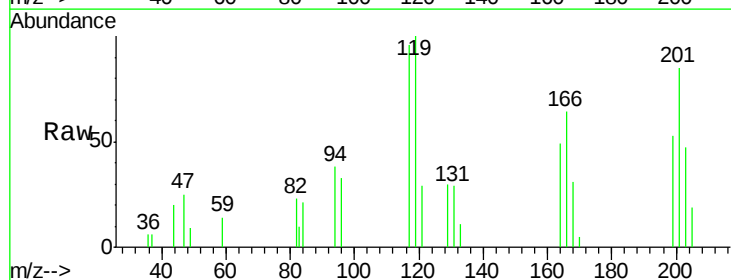
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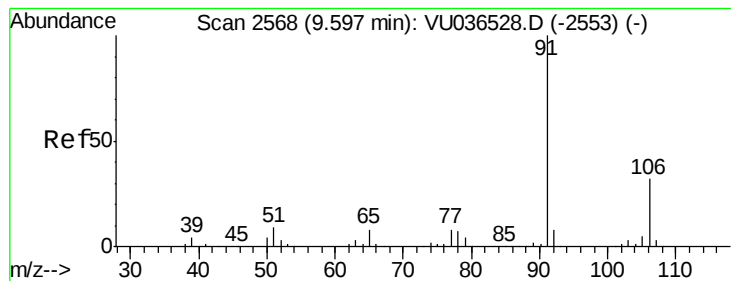
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#62  
 Hexachloroethane  
 Concen: 0.435 ug/l  
 RT: 12.50 min Scan# 3470  
 Delta R.T. -0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

Tgt Ion:117 Resp: 3670  
 Ion Ratio Lower Upper  
 117 100  
 201 84.5 65.0 97.4





#63

Ethyl Benzene

Concen: 0.468 ug/l

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

Instrument :

MSVOA\_U

ClientSampled :

VSTDIC0.5

Tot Ion: 91 Resp: 24514

Ion Ratio Lower Upper

91 100

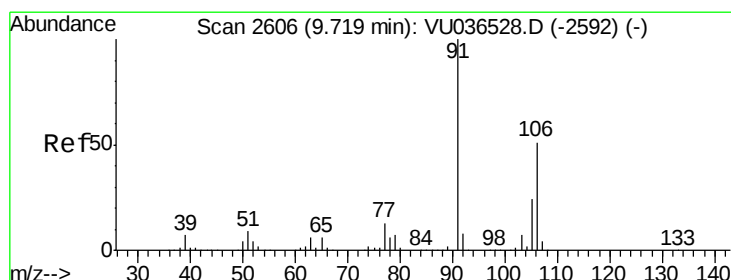
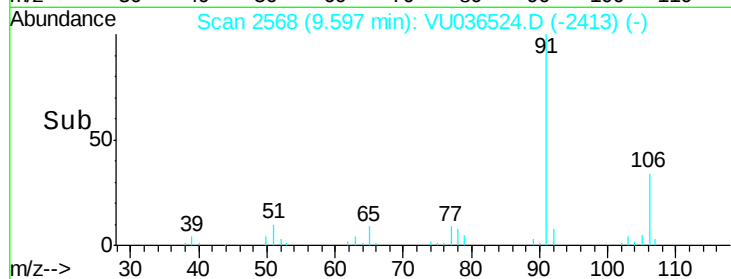
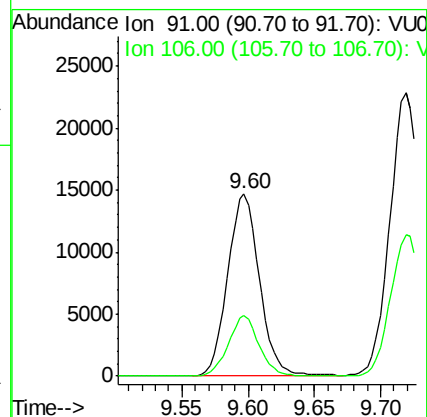
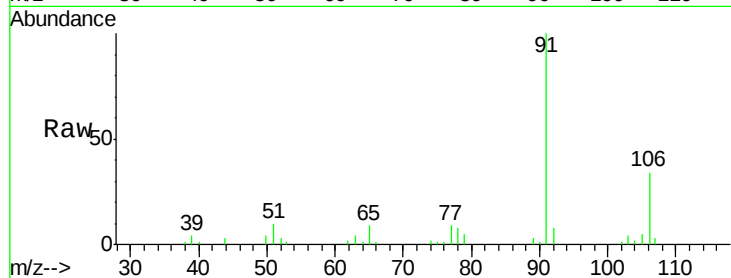
106 33.5 26.0 39.0

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#64

m/p-Xylenes

Concen: 0.990 ug/l

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036524.D

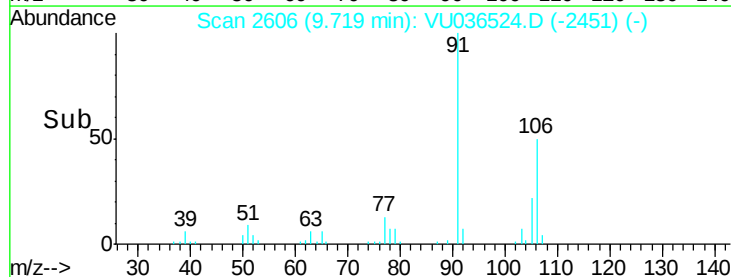
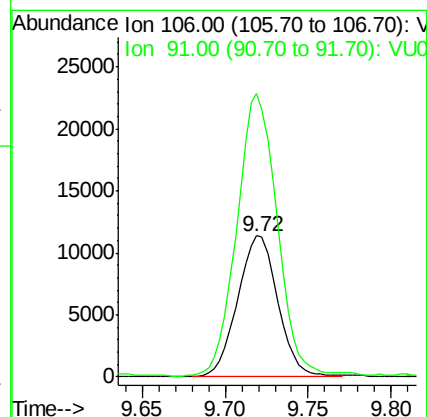
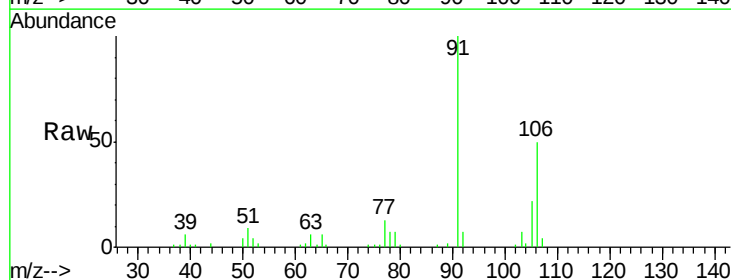
Acq: 22 Jan 2020 14:24

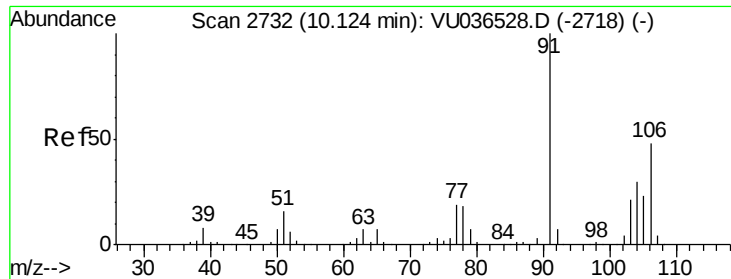
Tgt Ion: 106 Resp: 19179

Ion Ratio Lower Upper

106 100

91 201.9 158.2 237.4





#65

o-Xylene

Concen: 0.488 ug/l

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

Instrument :

MSVOA\_U

ClientSampled :

VSTDIC0.5

Tot Ion:106 Resp: 9231

Ion Ratio Lower Upper

106 100

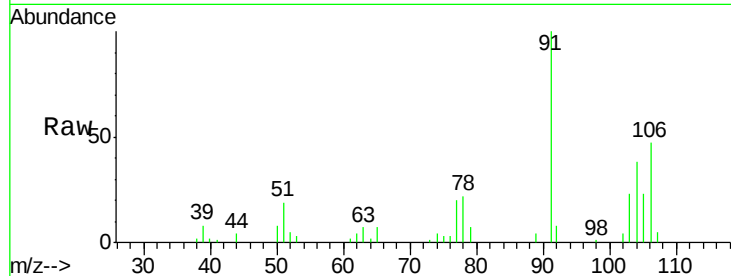
91 215.3 104.3 312.9

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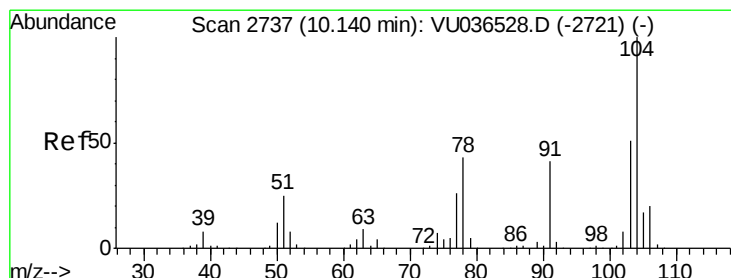
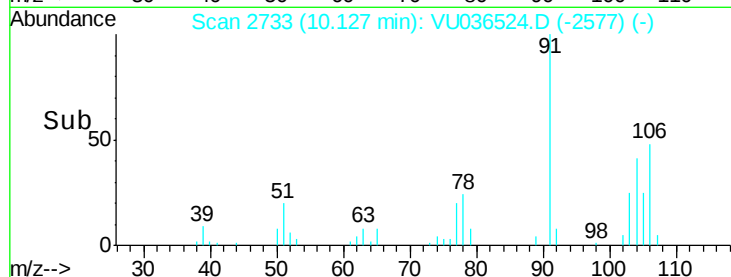
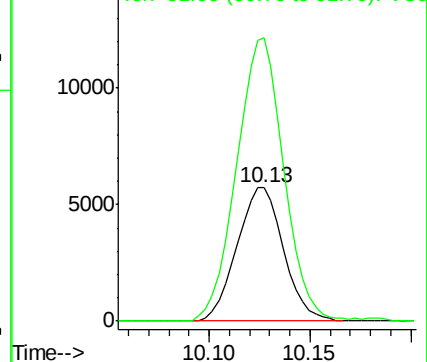
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#66

Styrene

Concen: 0.504 ug/l

RT: 10.14 min Scan# 2737

Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

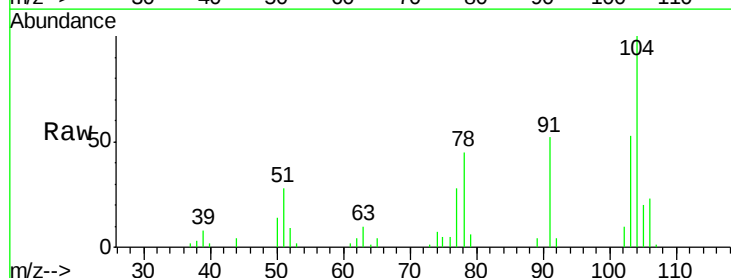
Tgt Ion:104 Resp: 15742

Ion Ratio Lower Upper

104 100

78 48.6 38.6 57.8

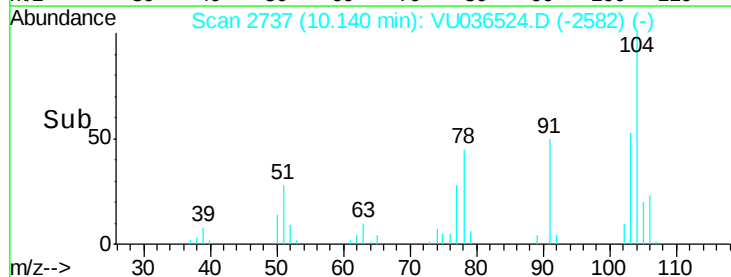
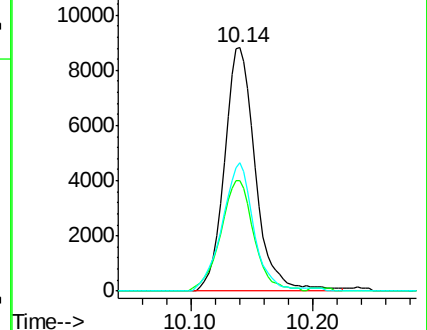
103 53.2 44.4 66.6

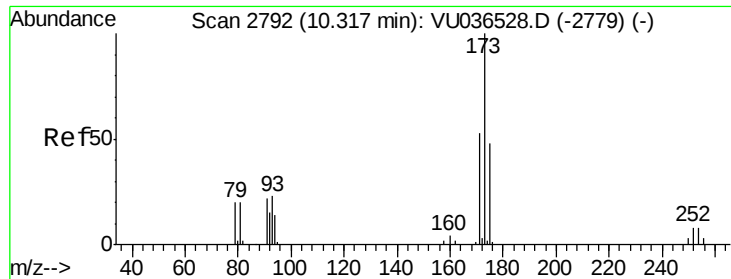


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

Ion 103.00 (102.70 to 103.70): V





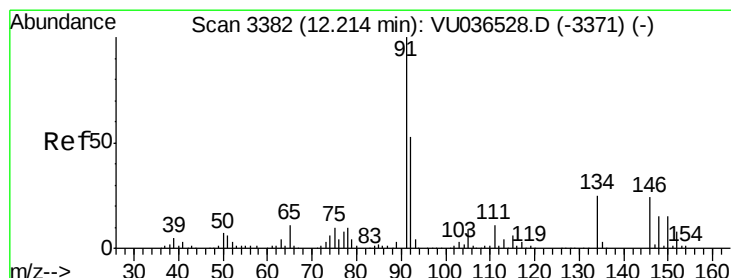
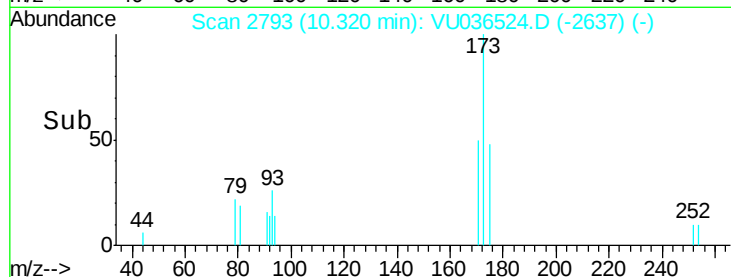
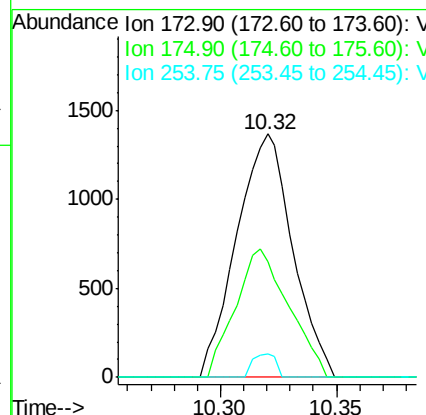
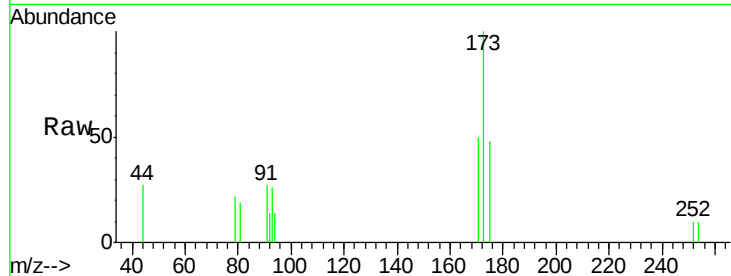
#67  
Bromoform  
Concen: 0.502 ug/l  
RT: 10.32 min Scan# 2793  
Delta R.T. 0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 50.2  | 38.3  | 57.5  |
| 254     | 4.0   | 6.6   | 9.8#  |

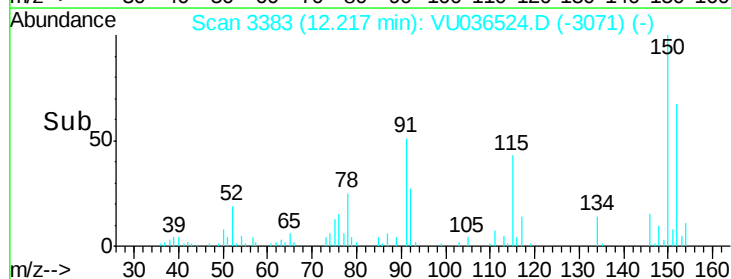
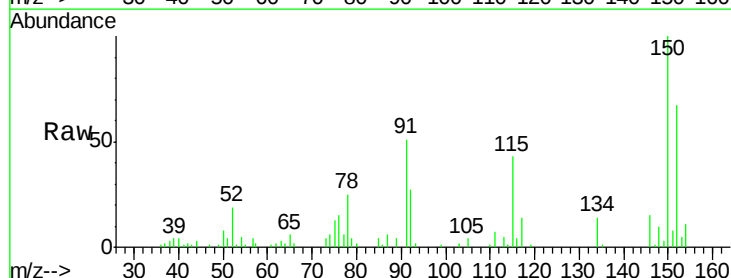
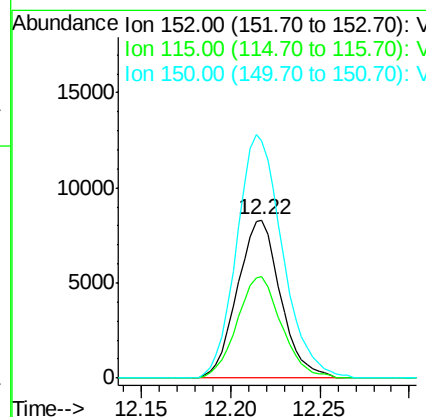
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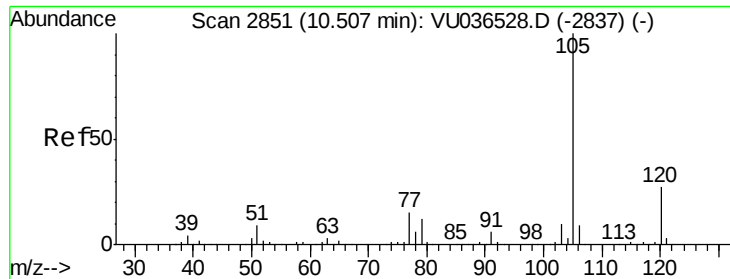
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#68  
1,2-Dichlorobenzene-d4  
Concen: 1.092 ug/l  
RT: 12.22 min Scan# 3383  
Delta R.T. 0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 66.0  | 0.0   | 241.8 |
| 150     | 163.2 | 0.0   | 652.4 |





#69

Isopropylbenzene

Concen: 0.475 ug/l

RT: 10.51 min Scan# 2851

Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 24167

Ion Ratio Lower Upper

105 100

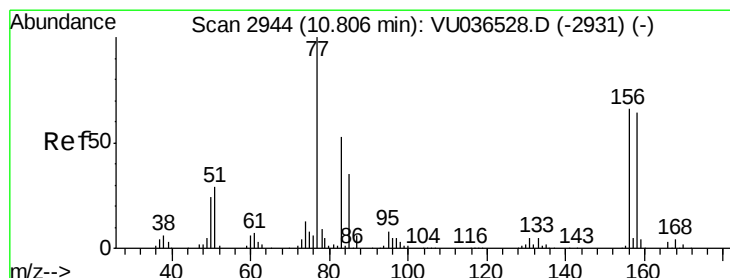
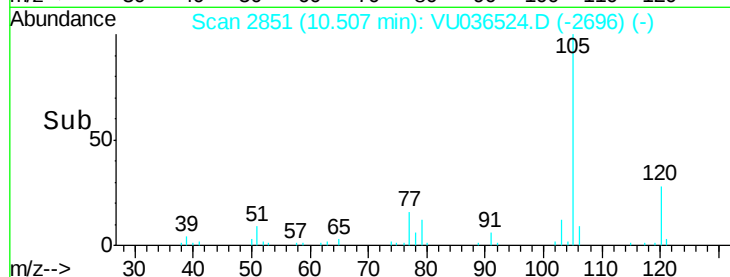
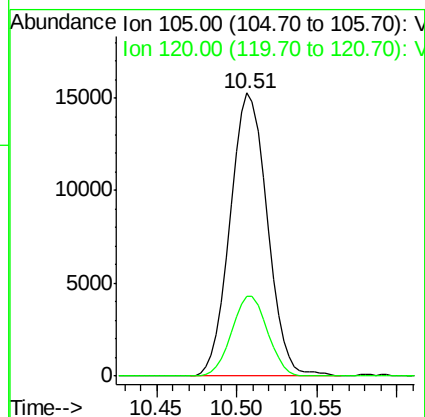
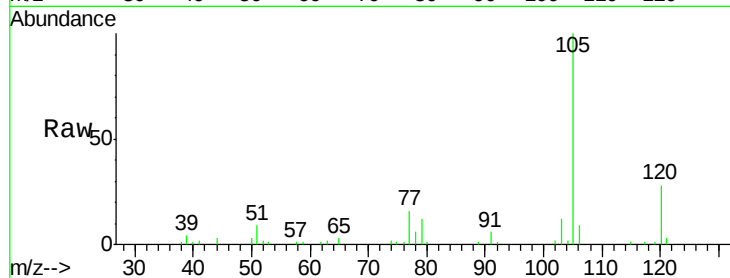
120 27.1 13.6 40.7

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#70

1,1,2,2-Tetrachloroethane

Concen: 0.453 ug/l

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

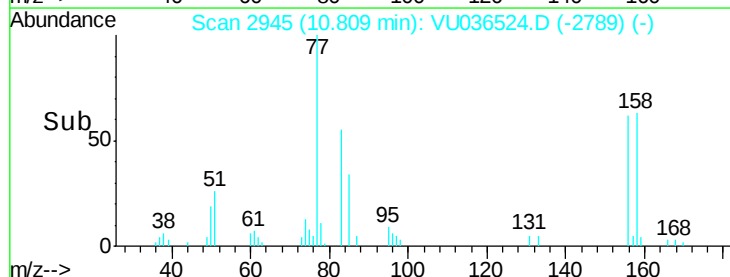
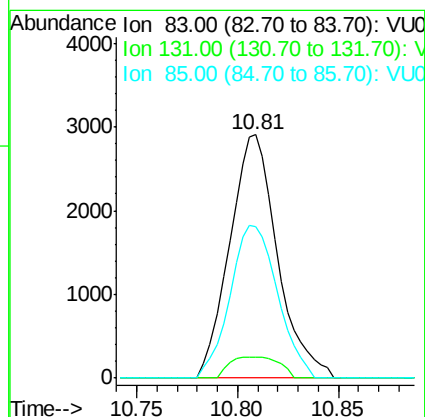
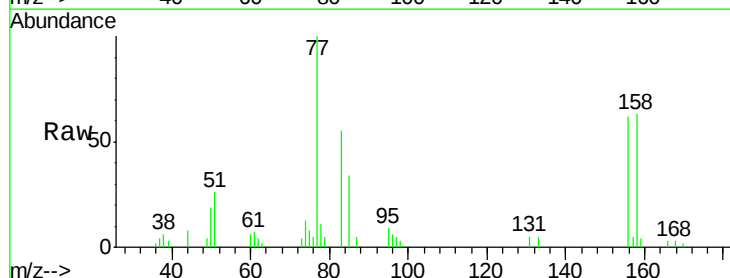
Tgt Ion: 83 Resp: 4804

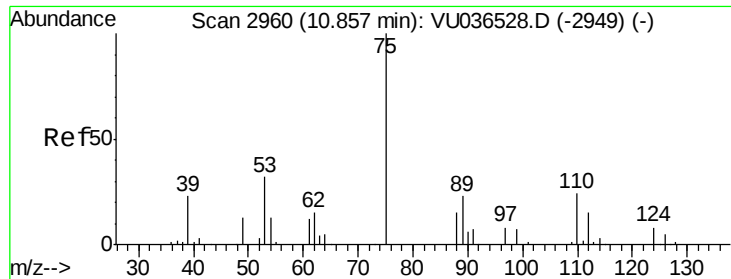
Ion Ratio Lower Upper

83 100

131 9.1 7.8 11.8

85 62.6 53.2 79.8





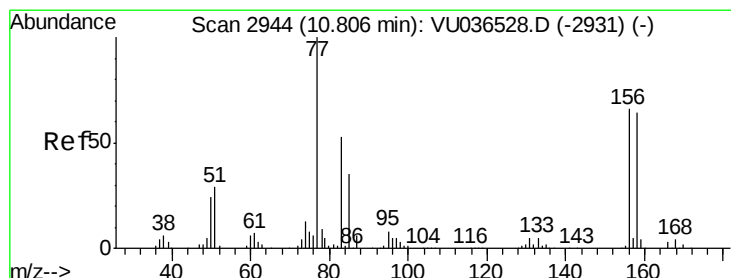
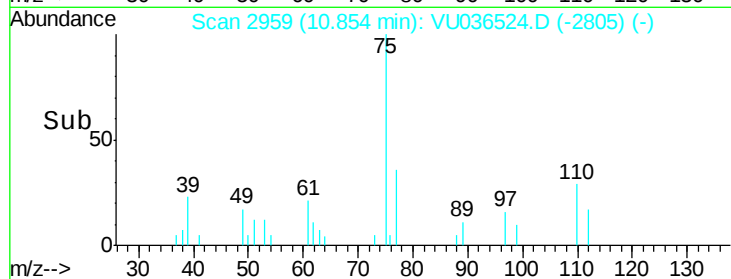
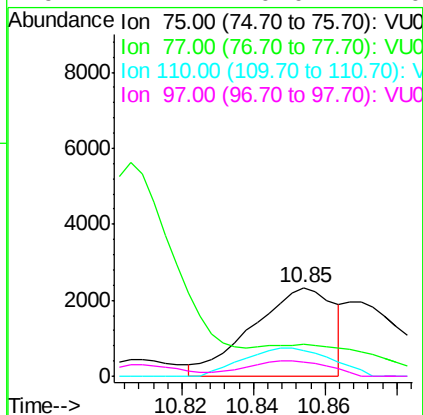
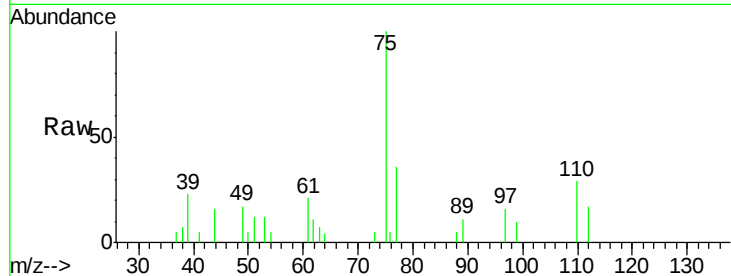
#71  
 1,2,3-Trichloropropane  
 Concen: 0.455 ug/l m  
 RT: 10.85 min Scan# 2959  
 Delta R.T. -0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 75    | Resp: | 3680  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 0.0   | 0.0   | 129.6 |
| 110      | 34.0  | 0.0   | 77.4  |
| 97       | 17.4  | 0.0   | 42.0  |

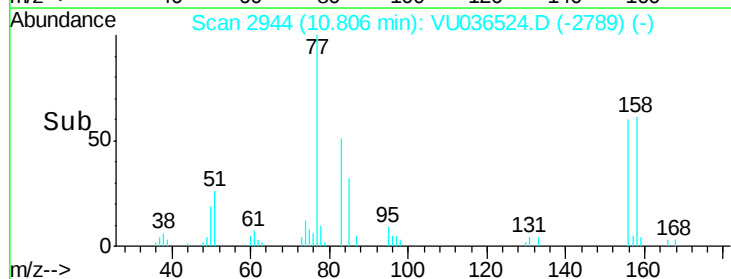
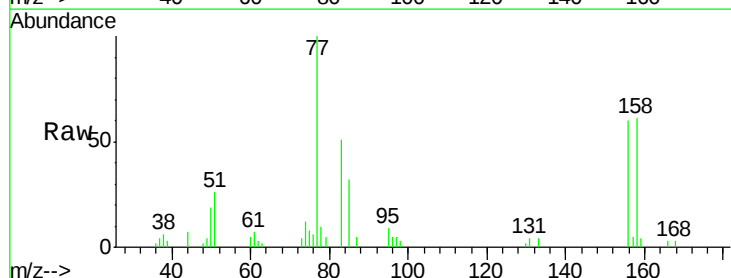
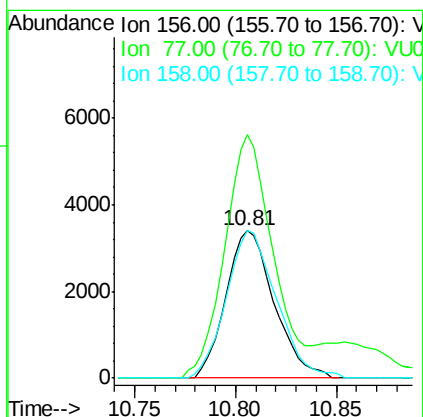
Manual Integrations  
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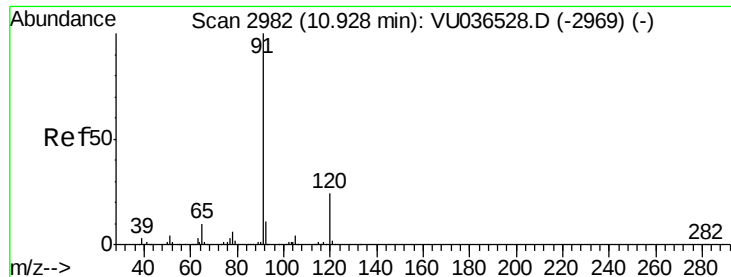
apatel  
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#72  
 Bromobenzene  
 Concen: 0.529 ug/l  
 RT: 10.81 min Scan# 2944  
 Delta R.T. -0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 156   | Resp: | 5692  |
| Ion      | Ratio | Lower | Upper |
| 156      | 100   |       |       |
| 77       | 166.0 | 0.0   | 306.6 |
| 158      | 104.1 | 0.0   | 192.0 |





#73

n-propylbenzene

Concen: 0.466 ug/l

RT: 10.93 min Scan# 2982

Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC0.5

Tot Ion:120 Resp: 6352

Ion Ratio Lower Upper

120 100

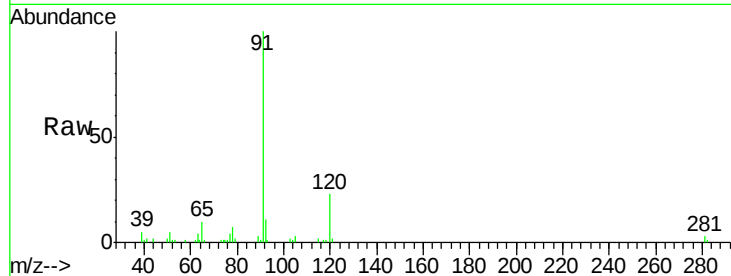
91 436.5 329.5 494.3

Manual Integrations

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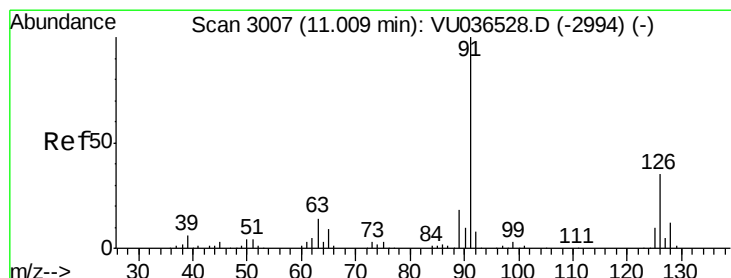
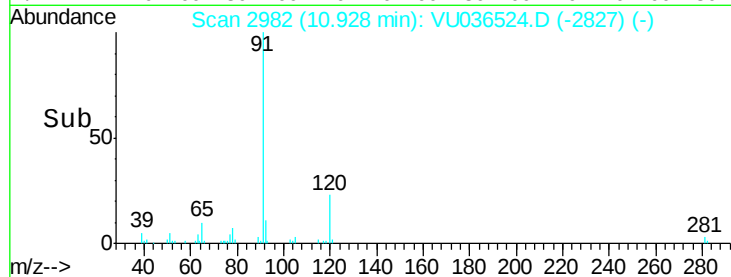
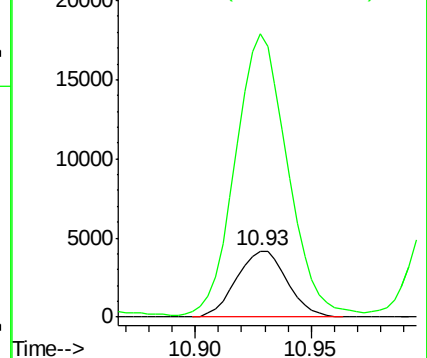
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Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



#74

2-Chlorotoluene

Concen: 0.506 ug/l

RT: 11.01 min Scan# 3008

Delta R.T. 0.00 min

Lab File: VU036524.D

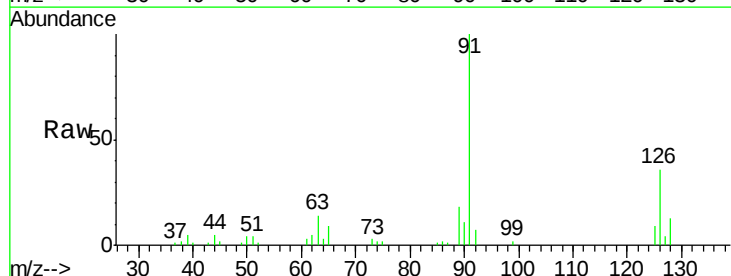
Acq: 22 Jan 2020 14:24

Tgt Ion:126 Resp: 5918

Ion Ratio Lower Upper

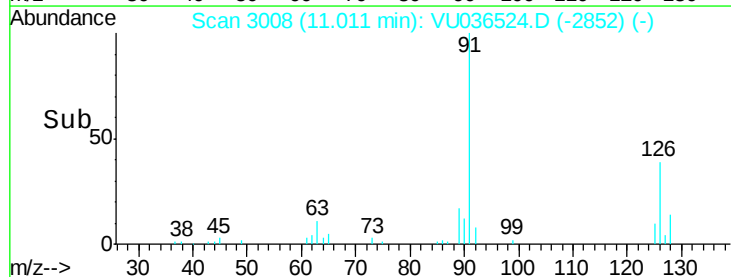
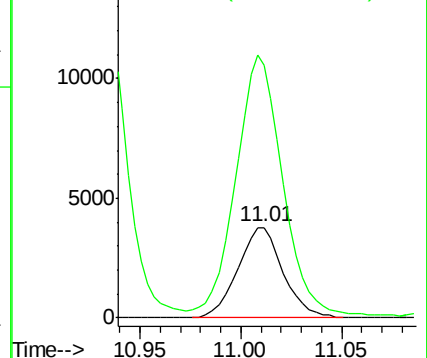
126 100

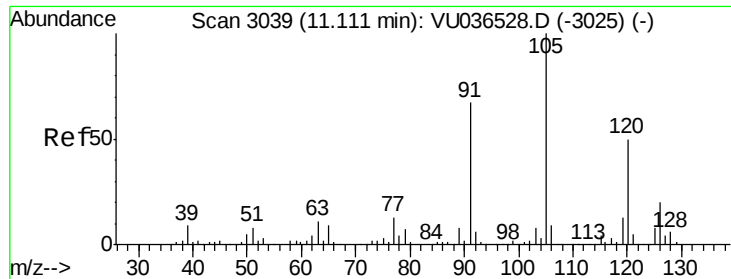
91 299.4 0.0 567.4



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#75

1,3,5-Trimethylbenzene

Concen: 0.492 ug/l

RT: 11.11 min Scan# 3039

Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 21220

Ion Ratio Lower Upper

105 100

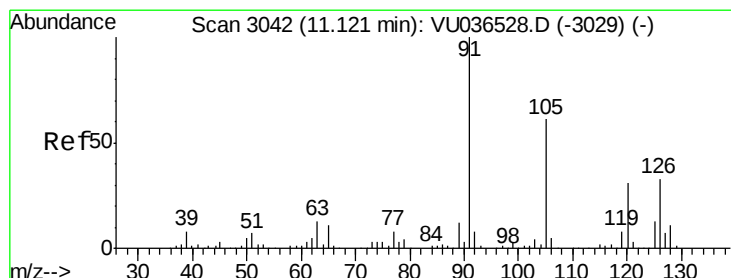
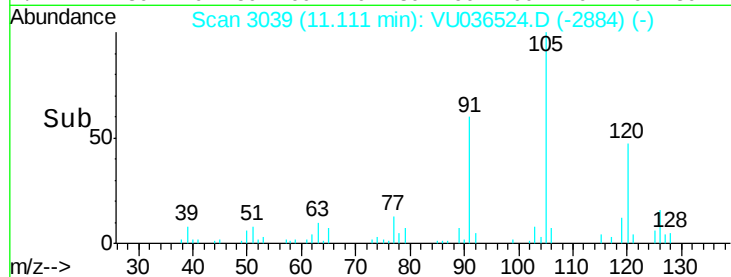
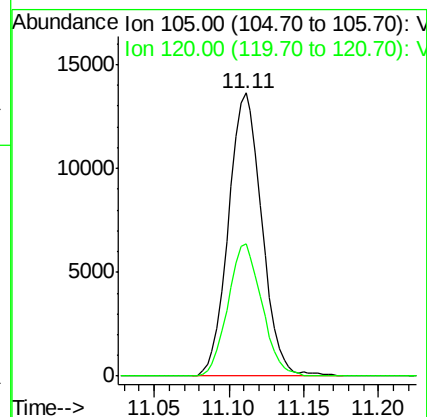
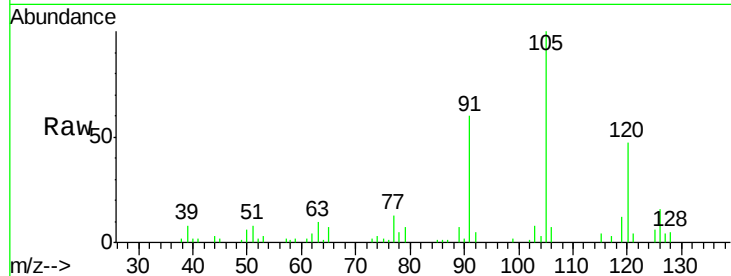
120 47.2 39.8 59.8

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#76

4-Chlorotoluene

Concen: 0.494 ug/l

RT: 11.12 min Scan# 3042

Delta R.T. -0.00 min

Lab File: VU036524.D

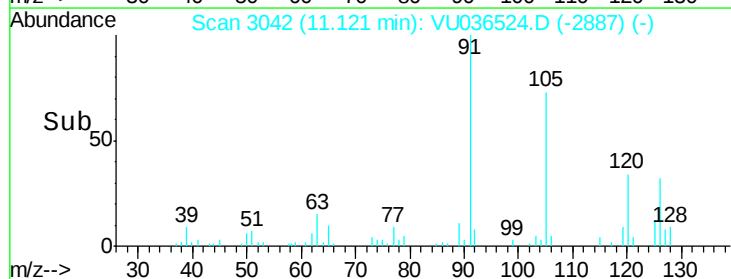
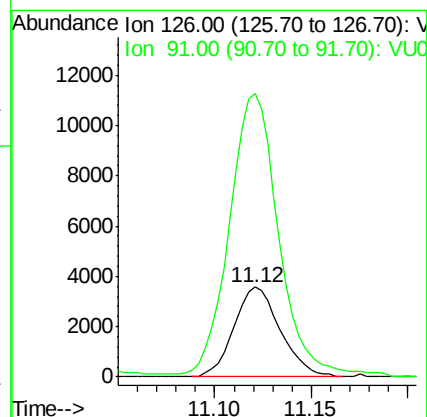
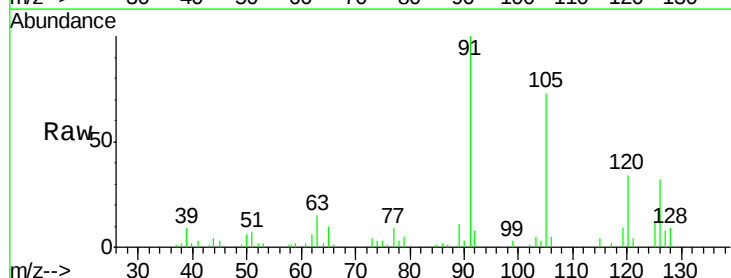
Acq: 22 Jan 2020 14:24

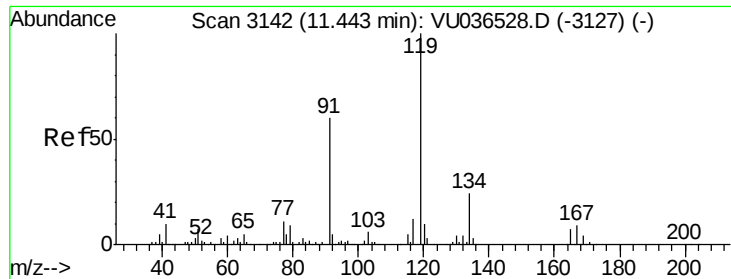
Tgt Ion:126 Resp: 5946

Ion Ratio Lower Upper

126 100

91 337.7 0.0 633.0





#77

tert-Butylbenzene

Concen: 0.497 ug/l

RT: 11.44 min Scan# 3142

Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

Instrument :

MSVOA\_U

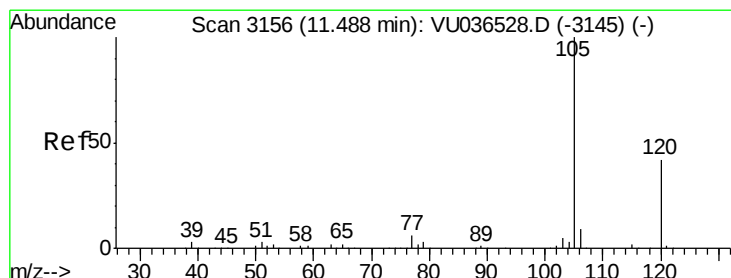
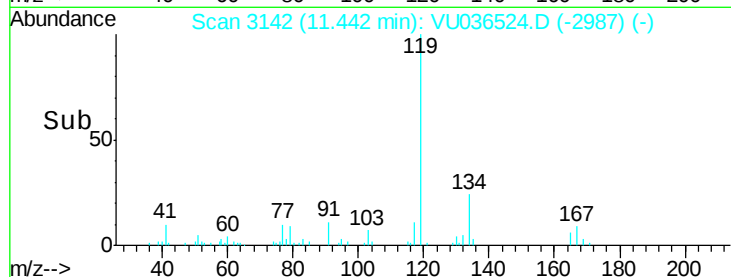
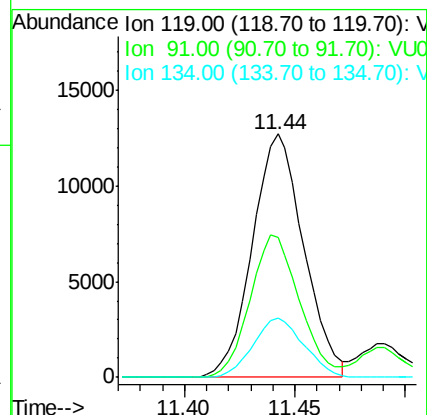
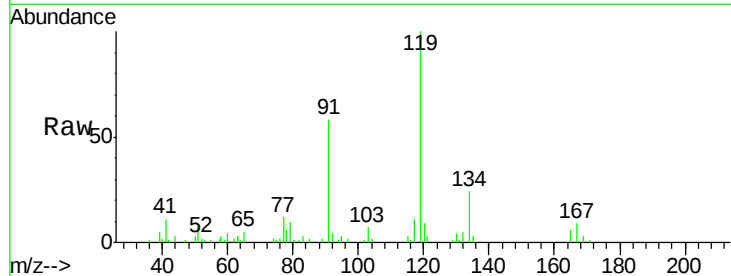
ClientSampleId :

VSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 119   | Resp: | 20541 |
| Ion Ratio | Lower | Upper |       |
| 119       | 100   |       |       |
| 91        | 56.6  | 29.3  | 87.8  |
| 134       | 24.0  | 19.0  | 28.4  |

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#78

1,2,4-Trimethylbenzene

Concen: 0.493 ug/l

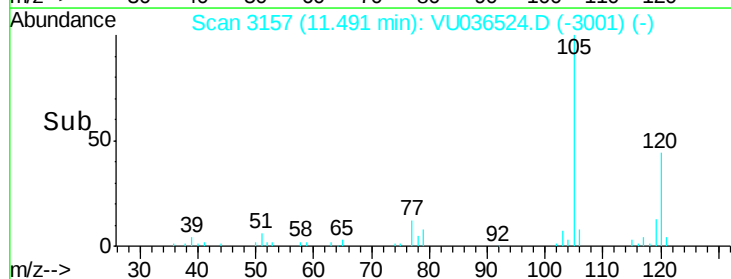
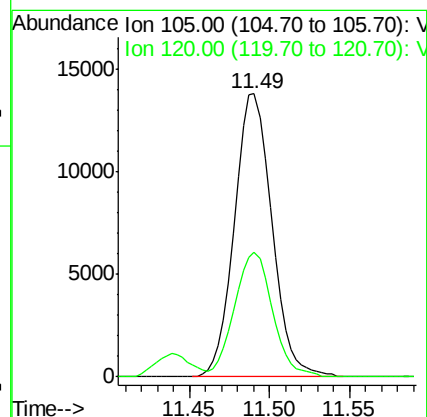
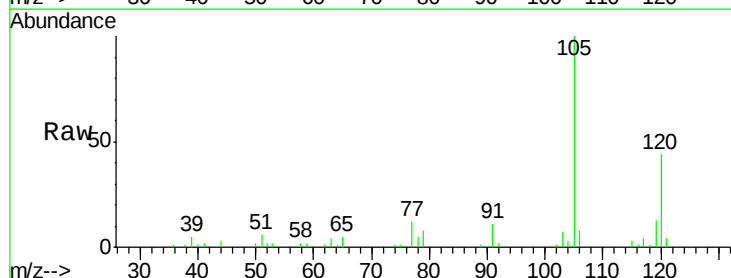
RT: 11.49 min Scan# 3157

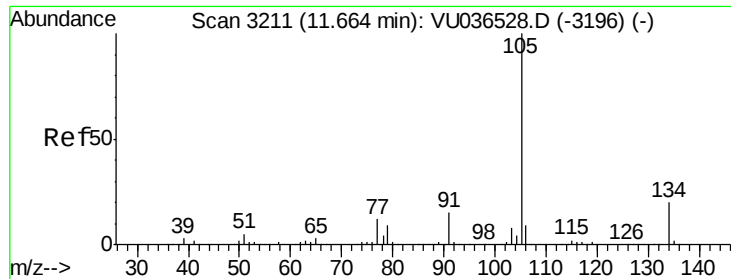
Delta R.T. 0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 22030 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 44.6  | 23.3  | 69.8  |





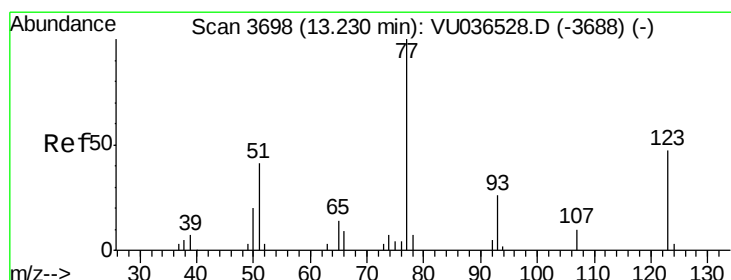
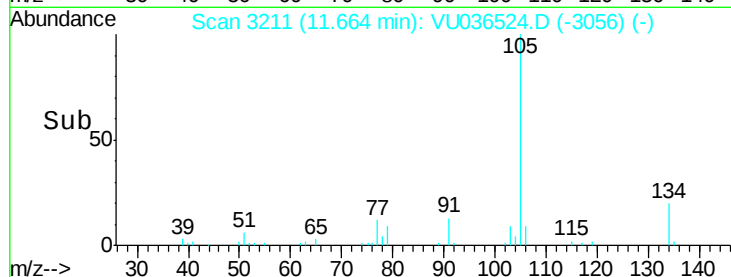
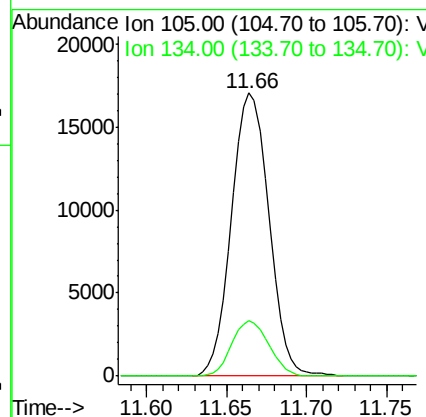
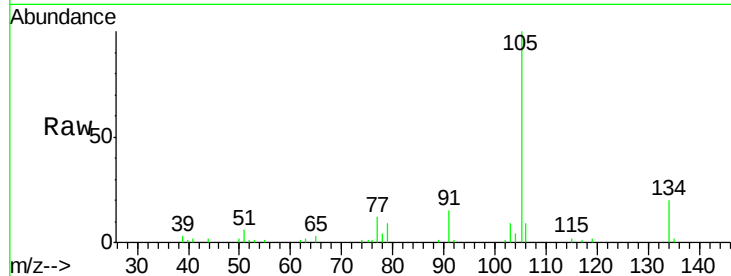
#79  
 sec-Butylbenzene  
 Concen: 0.476 ug/l  
 RT: 11.66 min Scan# 3211  
 Delta R.T. -0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

Tot Ion: 105 Resp: 27275  
 Ion Ratio Lower Upper  
 105 100  
 134 19.2 16.0 24.0

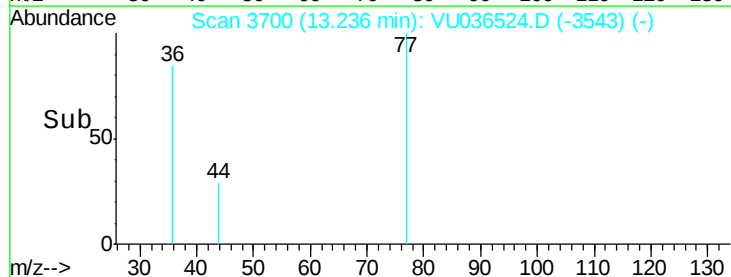
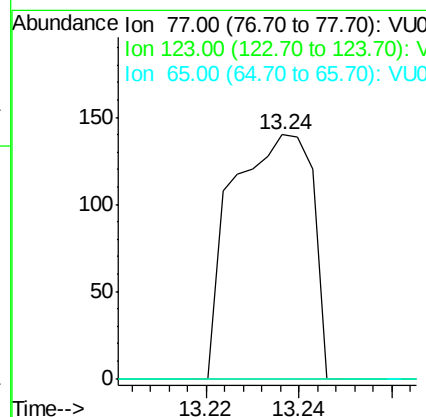
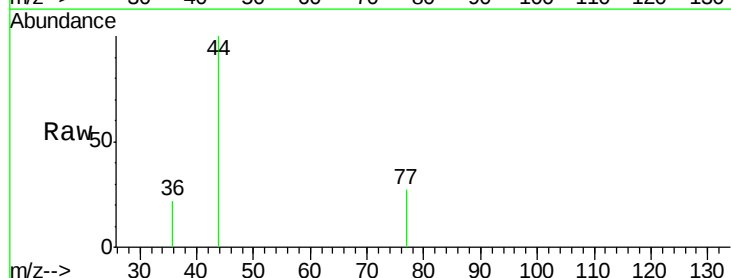
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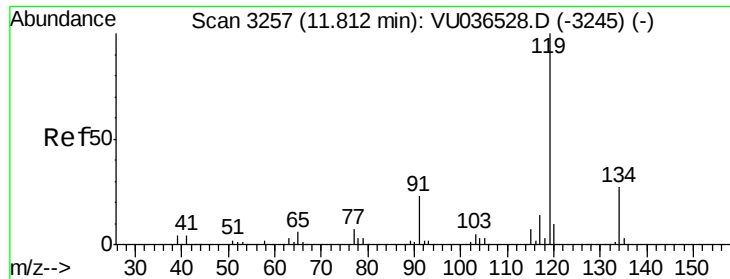
apatel  
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#80  
 Nitrobenzene  
 Concen: 0.903 ug/l  
 RT: 13.24 min Scan# 3700  
 Delta R.T. 0.01 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

Tgt Ion: 77 Resp: 168  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 19.6 69.6#  
 65 0.0 12.7 16.1#





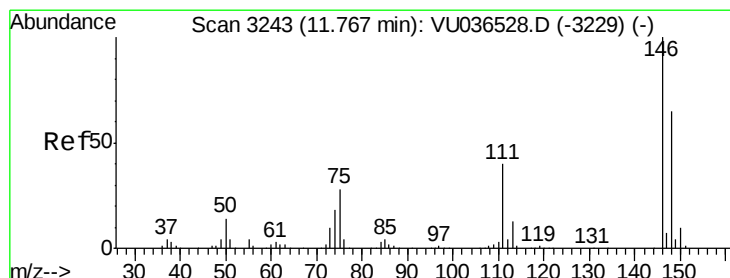
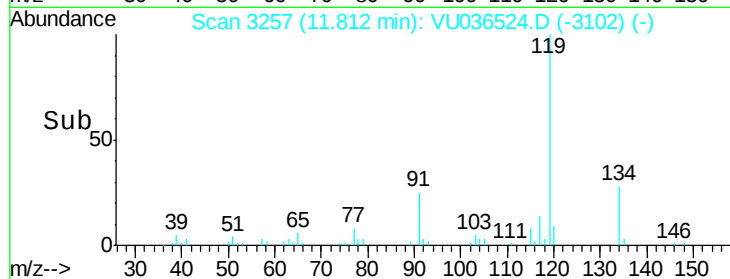
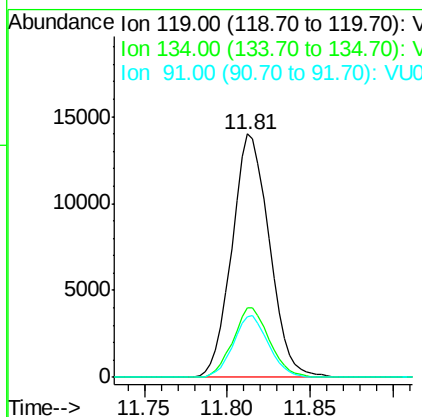
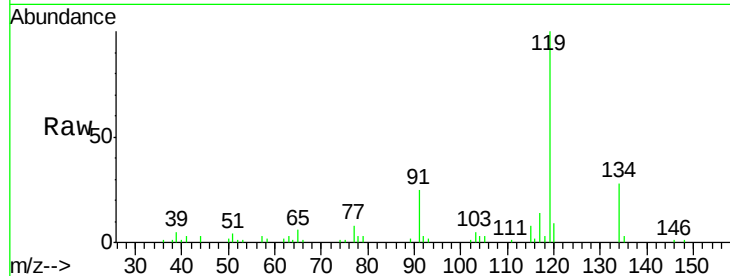
#81  
 p-Isopropyltoluene  
 Concen: 0.482 ug/l  
 RT: 11.81 min Scan# 3257  
 Delta R.T. -0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 27.7  | 21.4  | 32.0  |
| 91      | 23.7  | 18.3  | 27.5  |

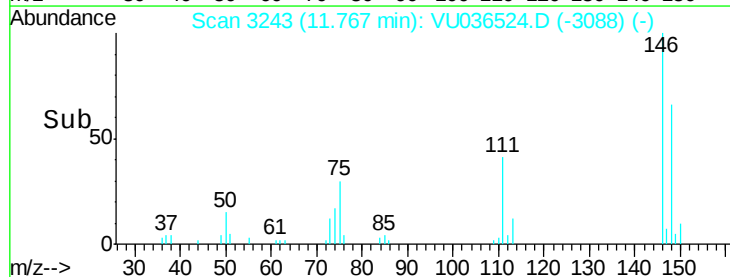
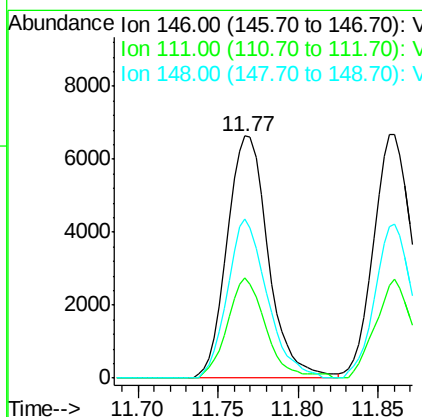
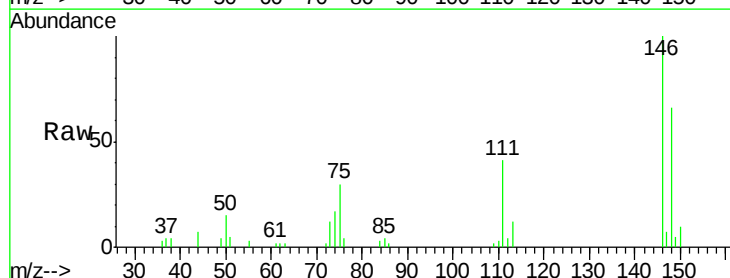
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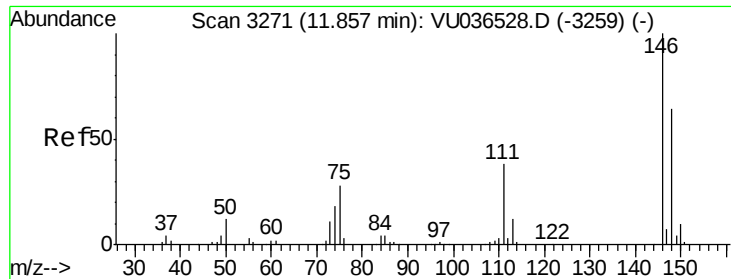
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#82  
 1,3-Dichlorobenzene  
 Concen: 0.517 ug/l  
 RT: 11.77 min Scan# 3243  
 Delta R.T. -0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.0  | 32.2  | 48.2  |
| 148     | 63.4  | 51.4  | 77.2  |





#83

1,4-Dichlorobenzene

Concen: 0.530 ug/l

RT: 11.86 min Scan# 3271

Delta R.T. -0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

Instrument :

MSVOA\_U

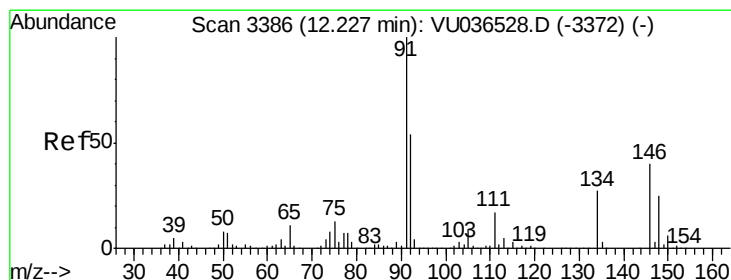
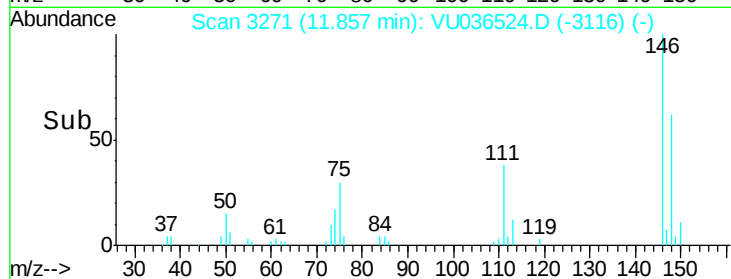
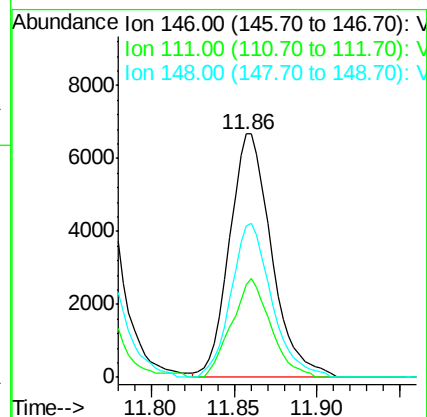
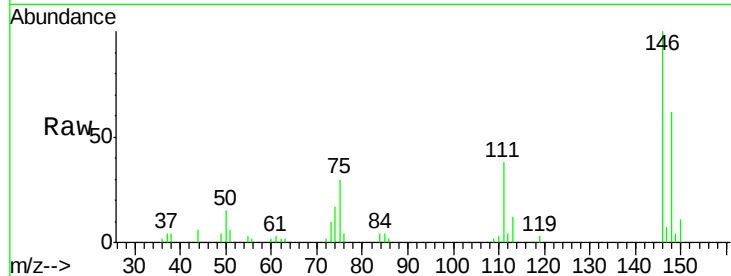
ClientSampled :

VSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 11825 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 37.5  | 30.5  | 45.7  |
| 148       | 60.8  | 51.0  | 76.4  |

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#84

n-Butylbenzene

Concen: 0.407 ug/l

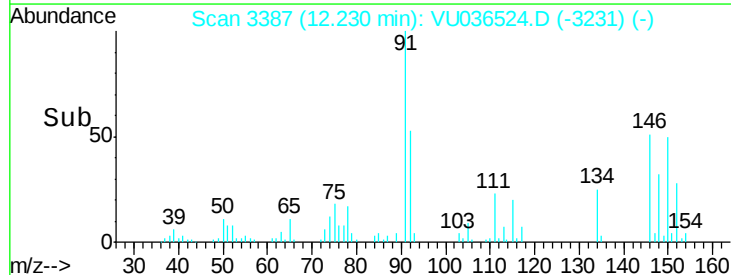
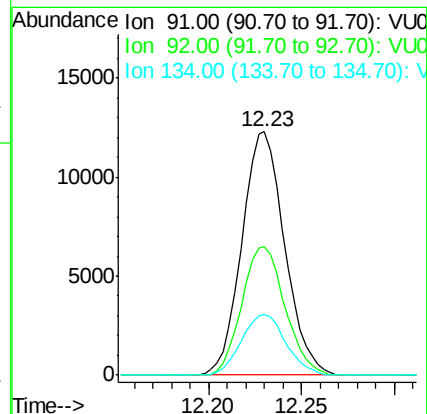
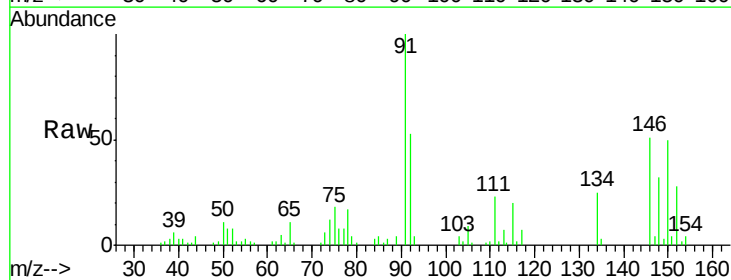
RT: 12.23 min Scan# 3387

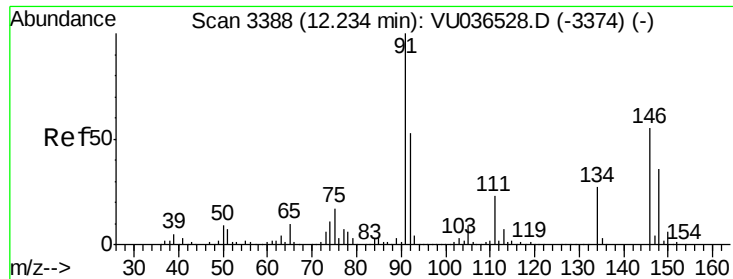
Delta R.T. 0.00 min

Lab File: VU036524.D

Acq: 22 Jan 2020 14:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 19613 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 92        | 53.3  | 42.9  | 64.3  |
| 134       | 25.9  | 21.4  | 32.0  |





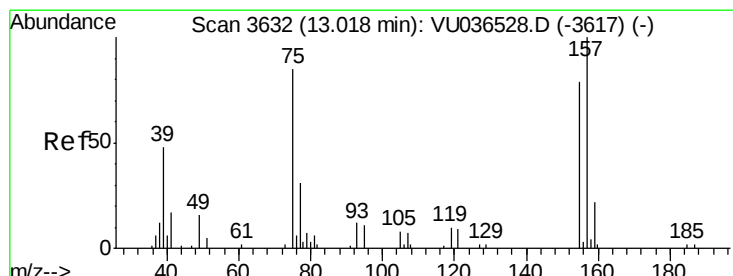
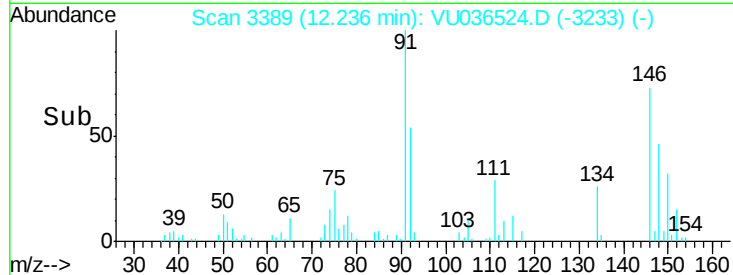
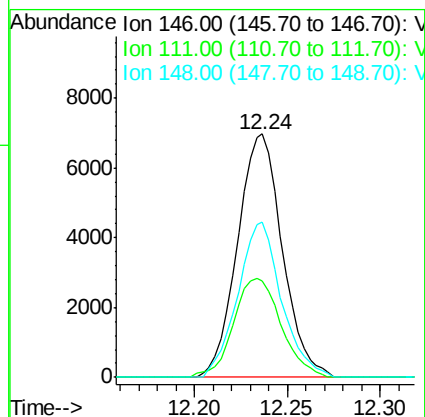
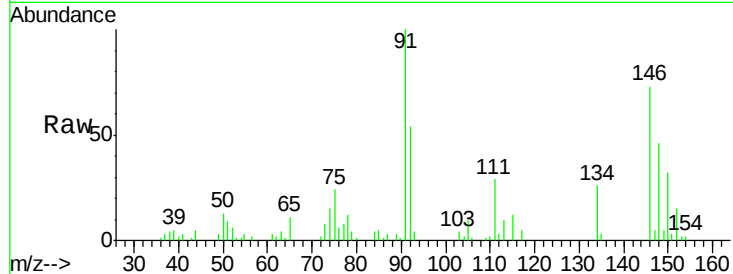
#85  
 1,2-Dichlorobenzene  
 Concen: 0.548 ug/l  
 RT: 12.24 min Scan# 3389  
 Delta R.T. 0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.3  | 20.8  | 62.4  |
| 148     | 62.3  | 32.0  | 96.2  |

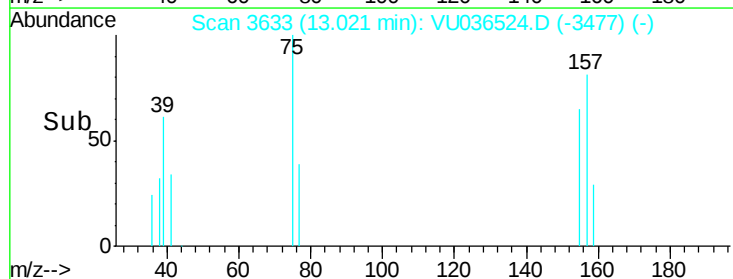
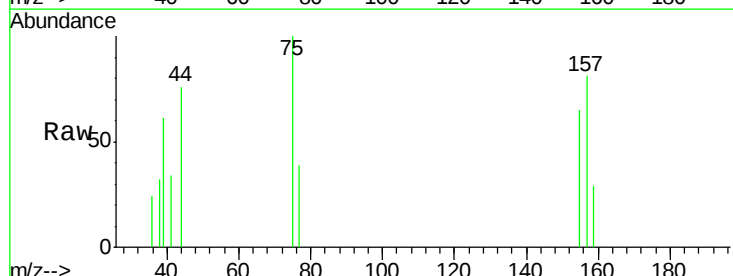
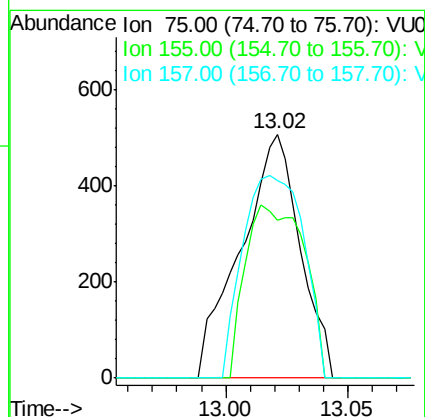
Manual Integrations  
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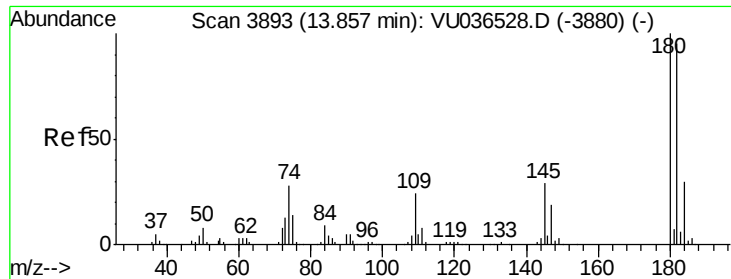
apatel  
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#86  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.443 ug/l  
 RT: 13.02 min Scan# 3633  
 Delta R.T. 0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 155     | 70.6  | 71.8  | 107.8# |
| 157     | 85.7  | 92.4  | 138.6# |





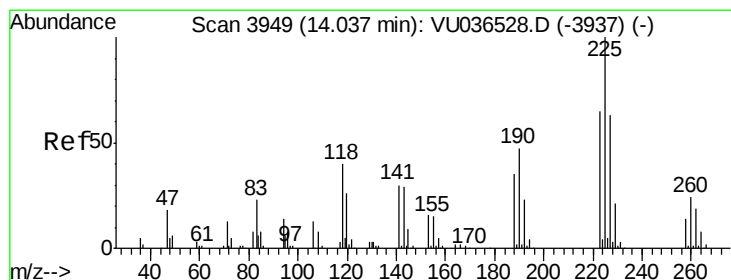
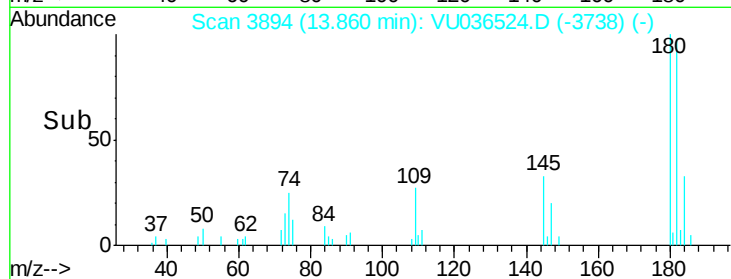
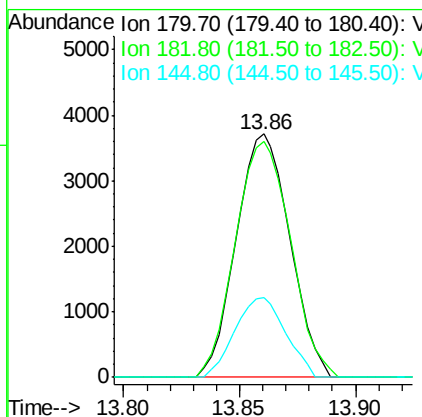
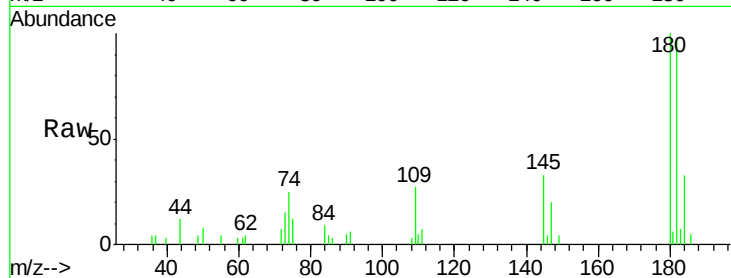
#87  
 1,2,4-Trichlorobenzene  
 Concen: 0.440 ug/l  
 RT: 13.86 min Scan# 3894  
 Delta R.T. 0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 100.1 | 75.9  | 113.9 |
| 145     | 30.9  | 23.4  | 35.2  |

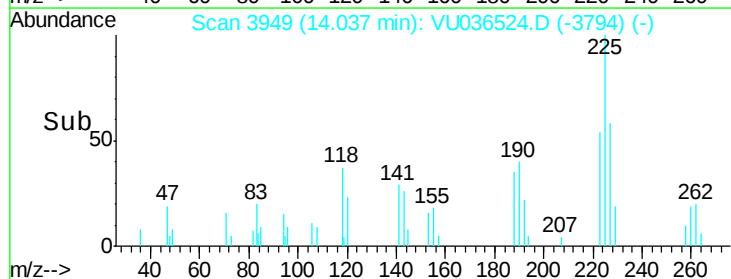
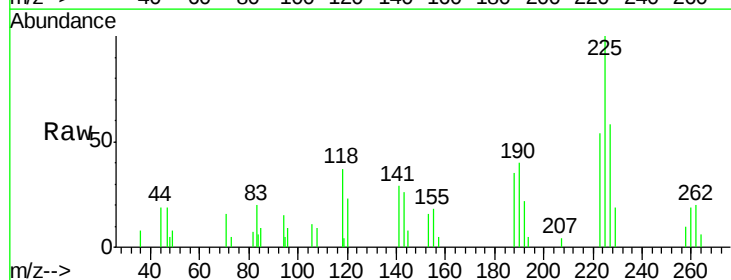
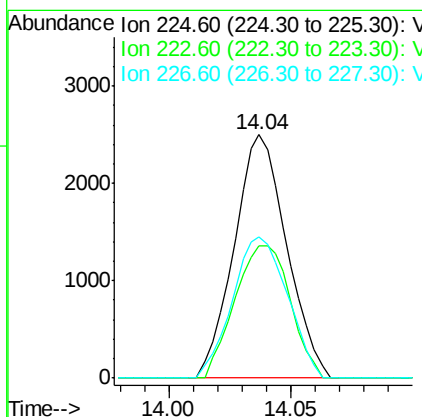
Manual Integrations  
 APPROVED

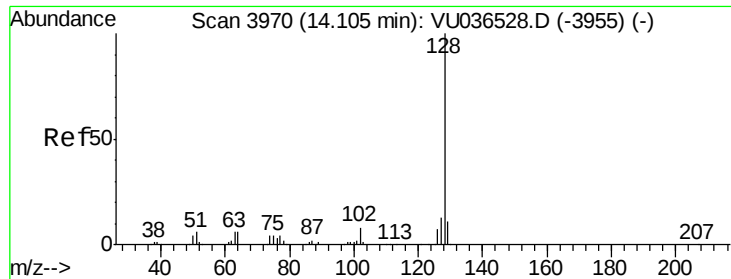
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#88  
 Hexachlorobutadiene  
 Concen: 0.585 ug/l  
 RT: 14.04 min Scan# 3949  
 Delta R.T. -0.00 min  
 Lab File: VU036524.D  
 Acq: 22 Jan 2020 14:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 57.6  | 51.7  | 77.5  |
| 227     | 60.9  | 50.6  | 75.8  |





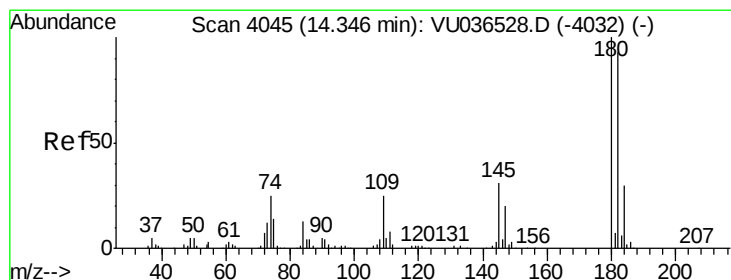
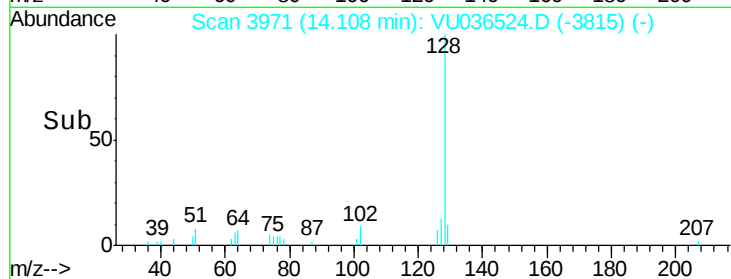
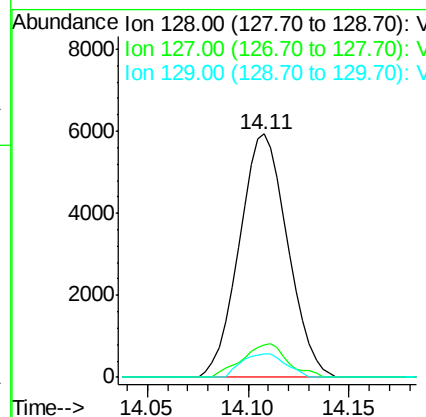
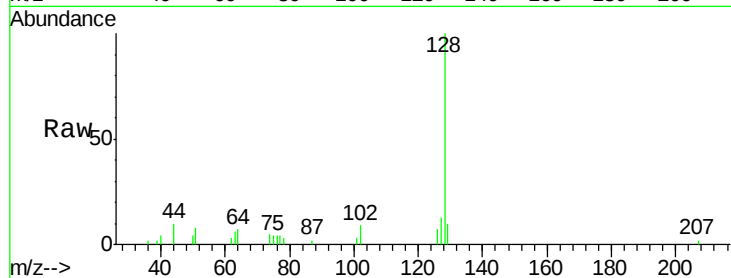
#89  
Naphthalene  
Concen: 0.369 ug/l  
RT: 14.11 min Scan# 3971  
Delta R.T. 0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.0  | 10.5  | 15.7  |
| 129     | 8.9   | 8.7   | 13.1  |

Manual Integrations  
APPROVED

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#90  
1,2,3-Trichlorobenzene  
Concen: 0.498 ug/l  
RT: 14.35 min Scan# 4046  
Delta R.T. 0.00 min  
Lab File: VU036524.D  
Acq: 22 Jan 2020 14:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.2  | 76.2  | 114.4 |
| 145     | 29.7  | 25.2  | 37.8  |

