

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY010220\  
 Data File : VY001143.D  
 Acq On : 02 Jan 2020 18:37  
 Operator : SY/MD  
 Sample : K6476-04  
 Misc : 9.26G/5ML/MSVOA Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 WP022SB454\_191227-24-26

Quant Time: Jan 02 23:52:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y010220S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 02 13:16:38 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 298307   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 522833   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 438931   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 165659   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.16  | 65   | 134619   | 54.20 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.40% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 150022   | 50.46 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.92% |          |
| 50) Toluene-d8              | 10.18 | 98   | 583340   | 53.67 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.34% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 176103   | 42.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.20%  |          |

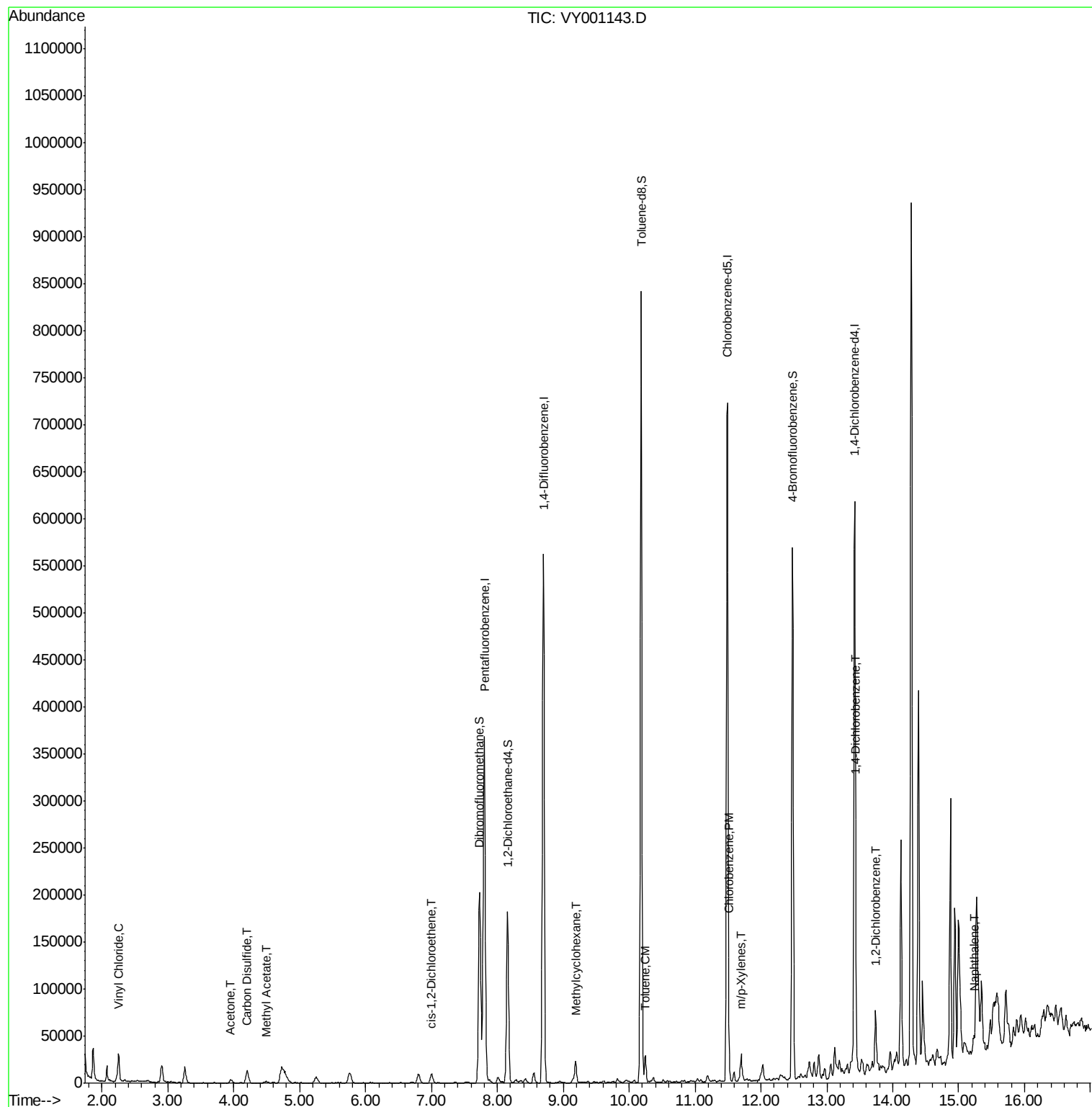
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 4) Vinyl Chloride          | 2.26  | 62   | 7666     | 4.945  | ug/l # | 88     |
| 16) Acetone                | 3.96  | 43   | 4928     | 31.113 | ug/l   | 94     |
| 17) Carbon Disulfide       | 4.20  | 76   | 26998    | 6.403  | ug/l   | 99     |
| 18) Methyl Acetate         | 4.49  | 43   | 3178     | 5.539  | ug/l   | 96     |
| 27) cis-1,2-Dichloroethene | 7.00  | 96   | 4922     | 1.348  | ug/l   | 89     |
| 39) Methylcyclohexane      | 9.19  | 83   | 11631    | 1.840  | ug/l   | 90     |
| 52) Toluene                | 10.25 | 92   | 12215    | 1.428  | ug/l   | 99     |
| 65) Chlorobenzene          | 11.52 | 112  | 15330    | 1.642  | ug/l   | 88     |
| 68) m/p-Xylenes            | 11.70 | 106  | 8379     | 1.303  | ug/l   | 98     |
| 88) 1,4-Dichlorobenzene    | 13.44 | 146  | 13317    | 2.340  | ug/l # | 81     |
| 91) 1,2-Dichlorobenzene    | 13.73 | 146  | 24246    | 4.677  | ug/l   | 98     |
| 95) Naphthalene            | 15.23 | 128  | 10580    | 1.298  | ug/l # | 67     |

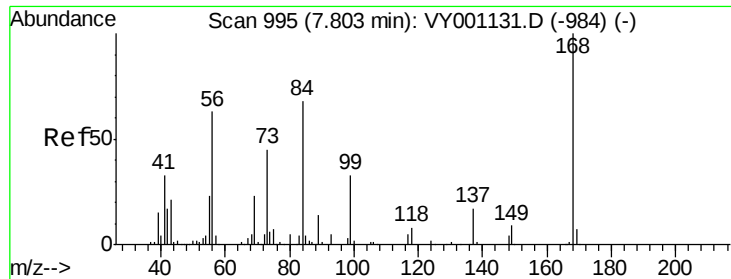
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY010220\  
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Sample : K6476-04  
Misc : 9.26G/5ML/MSVOA Y/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
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Quant Time: Jan 02 23:52:40 2020  
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Quant Title : SW846 8260  
QLast Update : Thu Jan 02 13:16:38 2020  
Response via : Initial Calibration



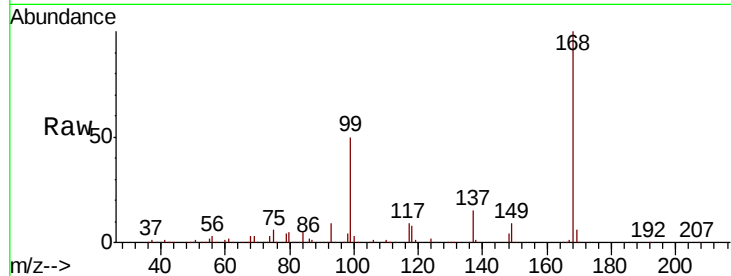


#1

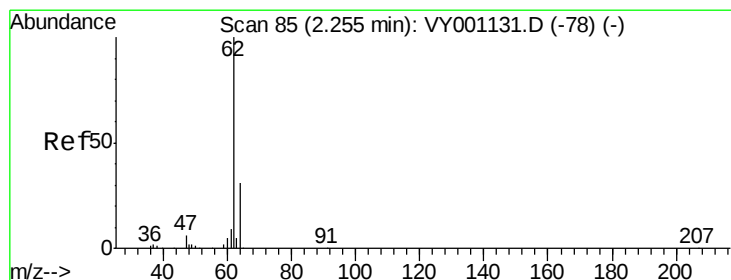
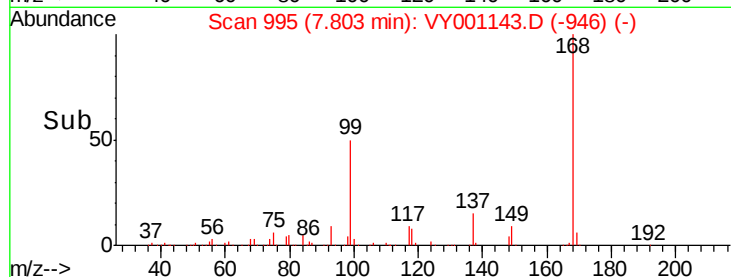
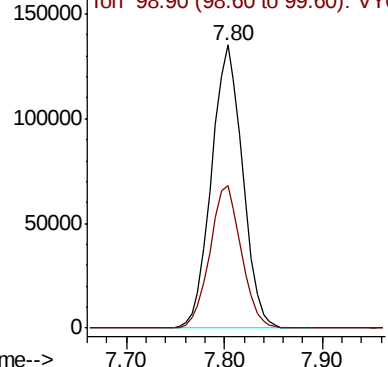
Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.80 min Scan# 995  
 Delta R.T. -0.00 min  
 Lab File: VY001143.D  
 Acq: 02 Jan 2020 18:37

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 WP022SB454\_191227-24-26

Tot Ion:168 Resp: 298307  
 Ion Ratio Lower Upper  
 168 100  
 99 50.4 42.5 63.7



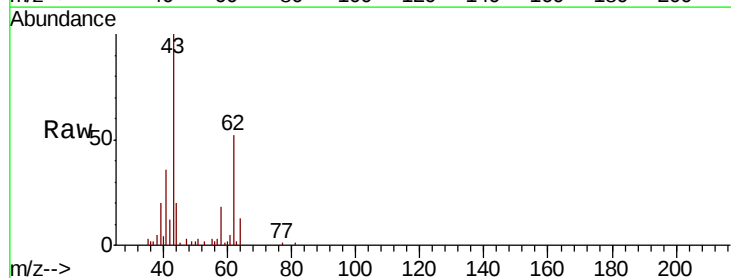
Abundance Ion 167.90 (167.60 to 168.60): VY001131.D (-984) (-)  
 Ion 98.90 (98.60 to 99.60): VY001131.D (-984) (-)



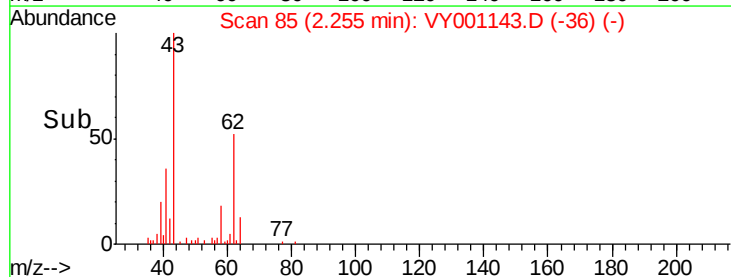
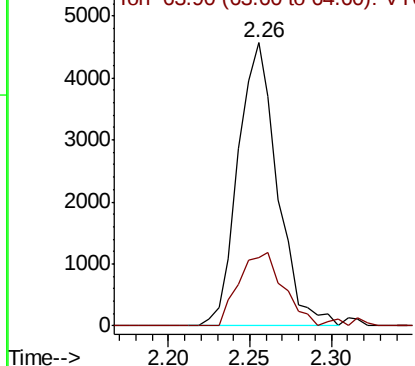
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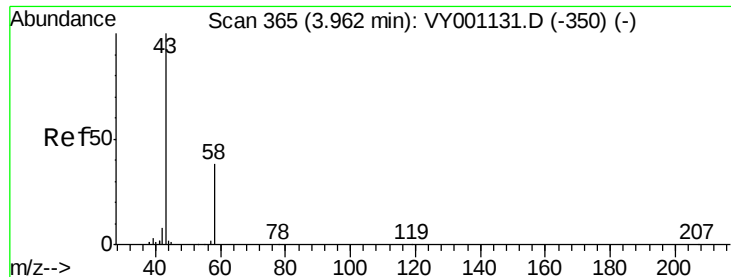
Vinyl Chloride  
 Concen: 4.945 ug/l  
 RT: 2.26 min Scan# 85  
 Delta R.T. -0.00 min  
 Lab File: VY001143.D  
 Acq: 02 Jan 2020 18:37

Tgt Ion: 62 Resp: 7666  
 Ion Ratio Lower Upper  
 62 100  
 64 24.1 24.4 36.6#



Abundance Ion 61.90 (61.60 to 62.60): VY001131.D (-78) (-)  
 Ion 63.90 (63.60 to 64.60): VY001131.D (-78) (-)





#16

Acetone

Concen: 31.113 ug/l

RT: 3.96 min Scan# 364

Delta R.T. -0.01 min

Lab File: VY001143.D

Acq: 02 Jan 2020 18:37

Instrument :

MSVOA\_Y

ClientSampleId :

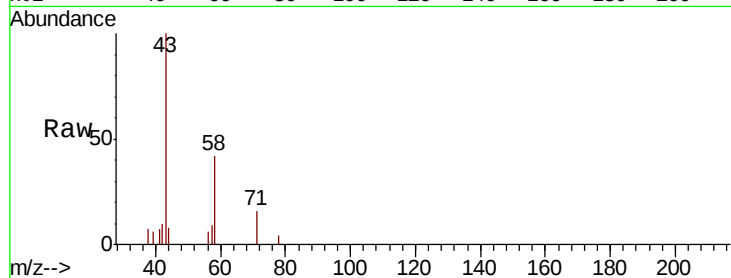
WP022SB454\_191227-24-26

Tot Ion: 43 Resp: 4928

Ion Ratio Lower Upper

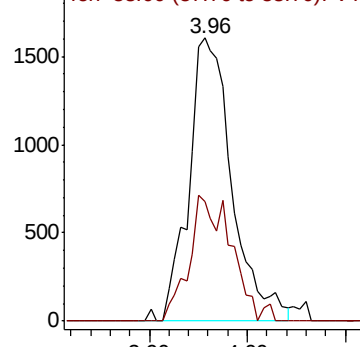
43 100

58 42.1 30.6 46.0

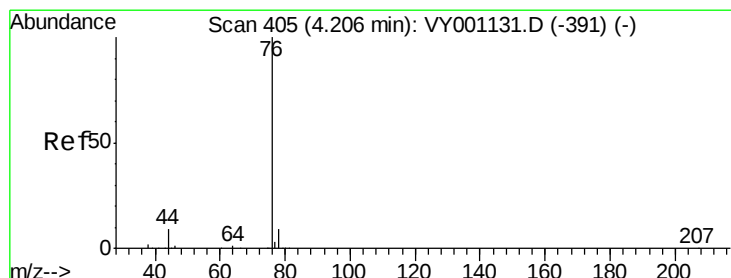
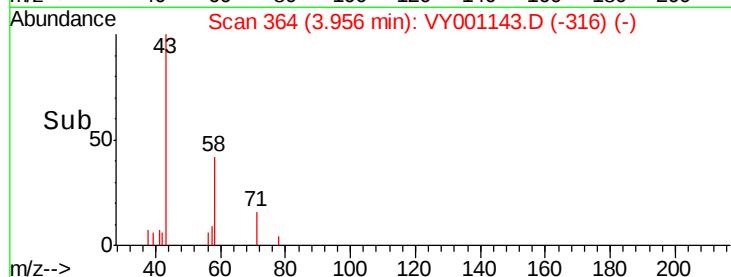


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



Time-->



#17

Carbon Disulfide

Concen: 6.403 ug/l

RT: 4.20 min Scan# 404

Delta R.T. -0.01 min

Lab File: VY001143.D

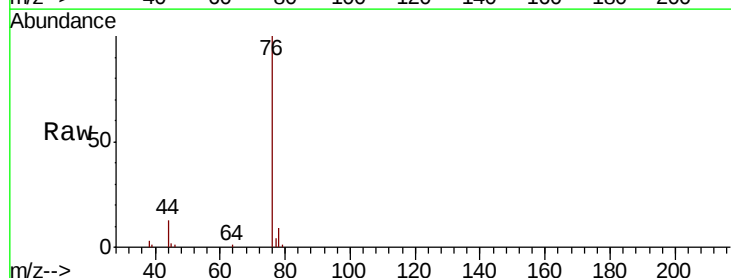
Acq: 02 Jan 2020 18:37

Tgt Ion: 76 Resp: 26998

Ion Ratio Lower Upper

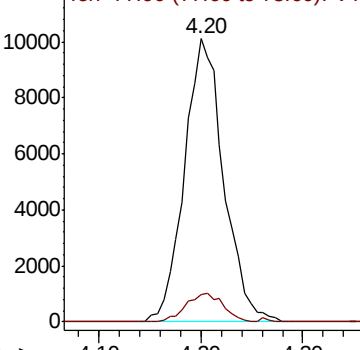
76 100

78 9.5 7.4 11.0

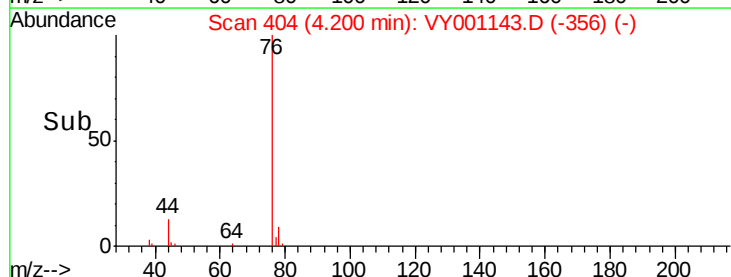


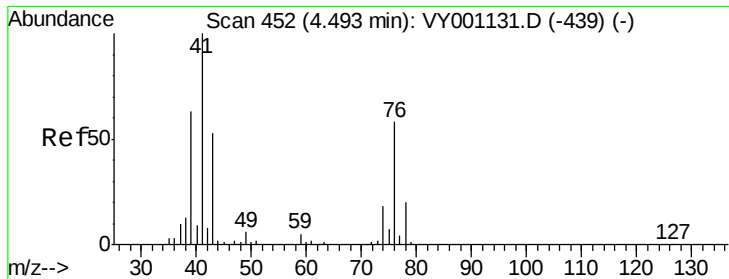
Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



Time-->

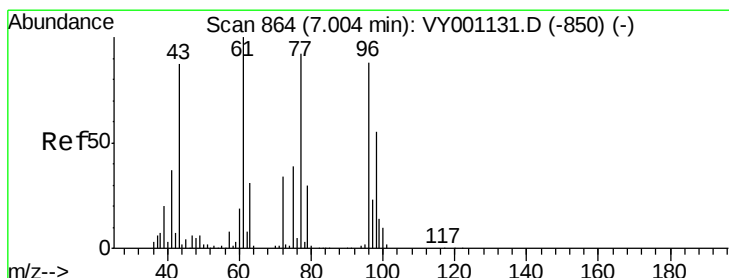
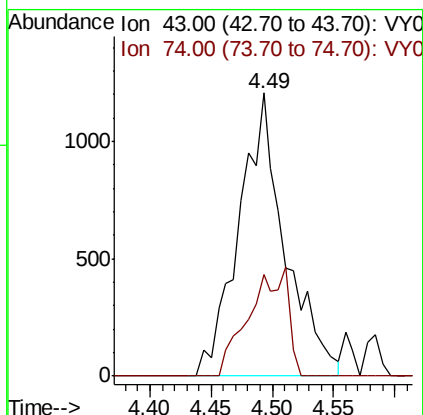
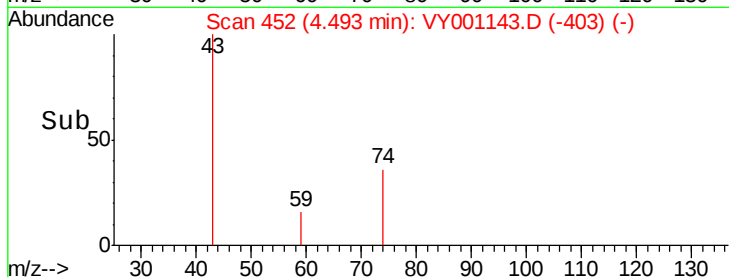
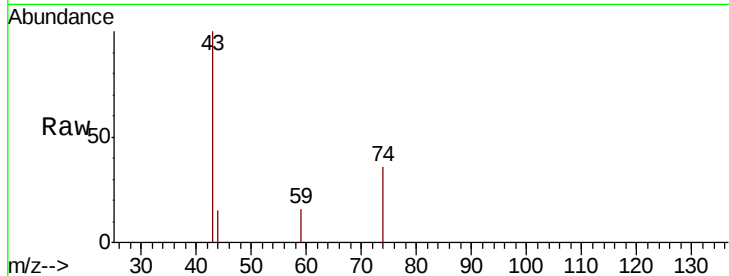




#18  
Methyl Acetate  
Concen: 5.539 ug/l  
RT: 4.49 min Scan# 452  
Delta R.T. 0.00 min  
Lab File: VY001143.D  
Acq: 02 Jan 2020 18:37

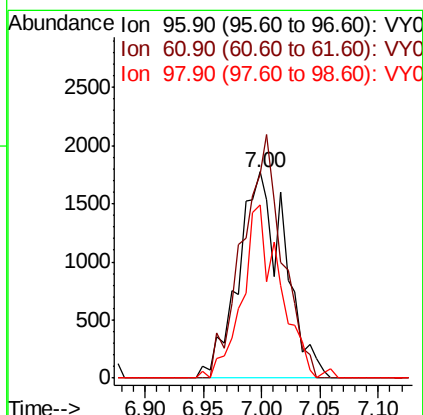
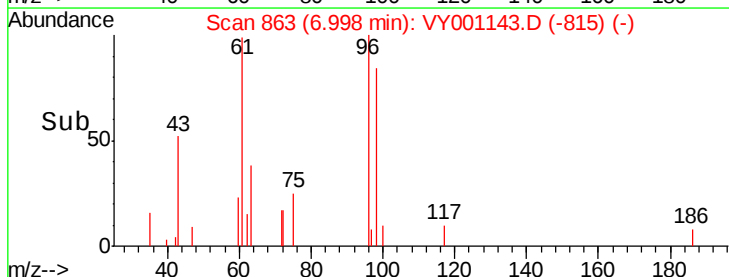
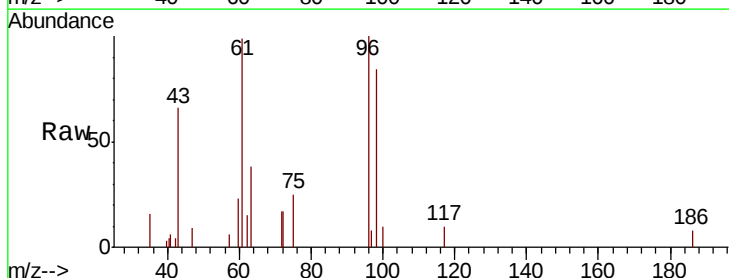
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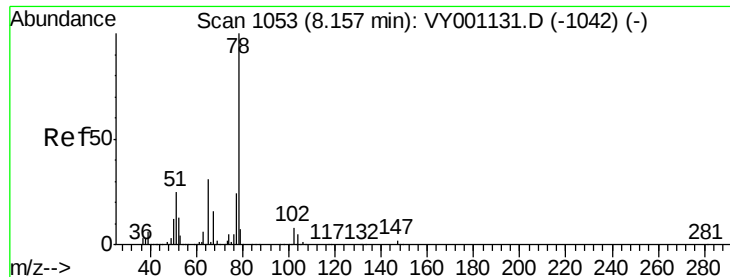
Tot Ion: 43 Resp: 3178  
Ion Ratio Lower Upper  
43 100  
74 31.8 27.3 40.9



#27  
cis-1,2-Dichloroethene  
Concen: 1.348 ug/l  
RT: 7.00 min Scan# 863  
Delta R.T. -0.01 min  
Lab File: VY001143.D  
Acq: 02 Jan 2020 18:37

Tgt Ion: 96 Resp: 4922  
Ion Ratio Lower Upper  
96 100  
61 101.2 0.0 235.0  
98 67.8 0.0 127.4

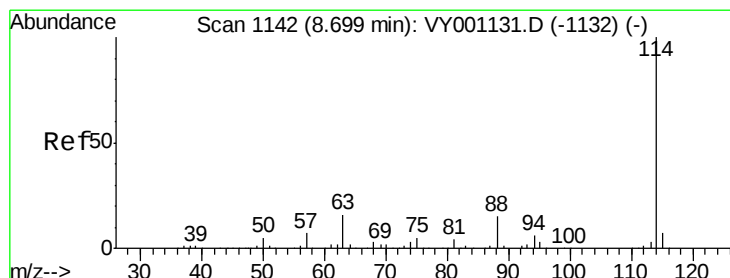
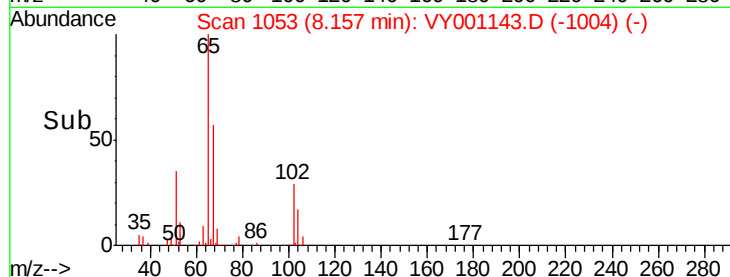
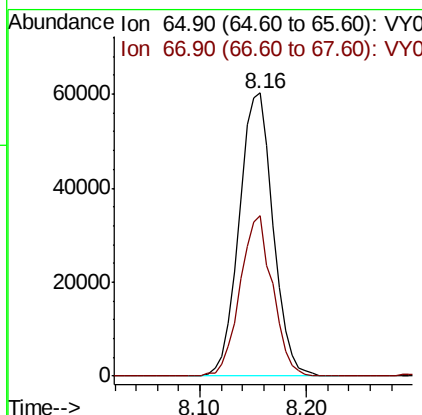
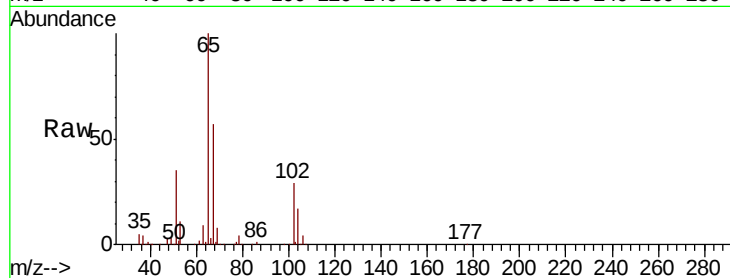




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.202 ug/l  
 RT: 8.16 min Scan# 1053  
 Delta R.T. -0.00 min  
 Lab File: VY001143.D  
 Acq: 02 Jan 2020 18:37

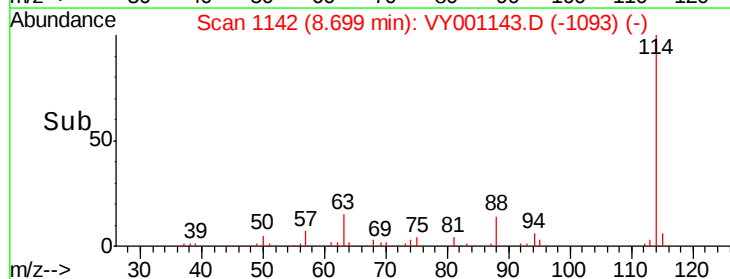
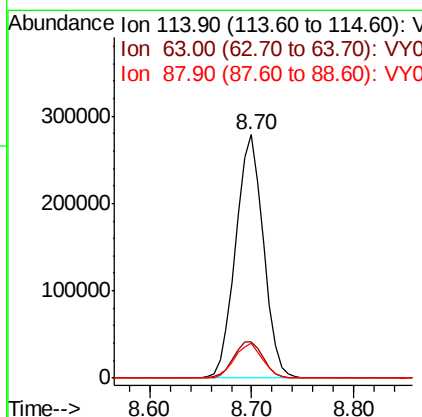
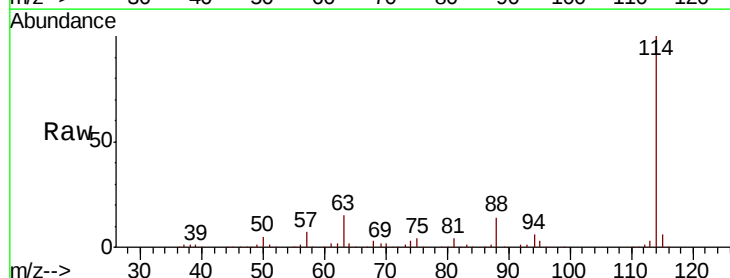
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 WP022SB454\_191227-24-26

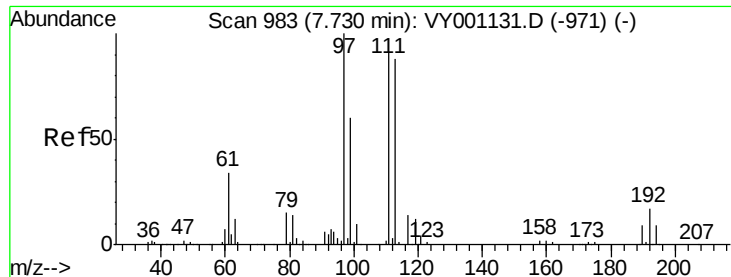
Tot Ion: 65 Resp: 134619  
 Ion Ratio Lower Upper  
 65 100  
 67 54.7 0.0 110.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.70 min Scan# 1142  
 Delta R.T. -0.00 min  
 Lab File: VY001143.D  
 Acq: 02 Jan 2020 18:37

Tgt Ion: 114 Resp: 522833  
 Ion Ratio Lower Upper  
 114 100  
 63 14.9 0.0 33.0  
 88 14.4 0.0 30.0

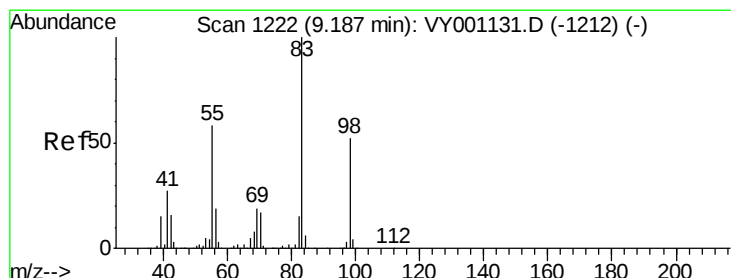
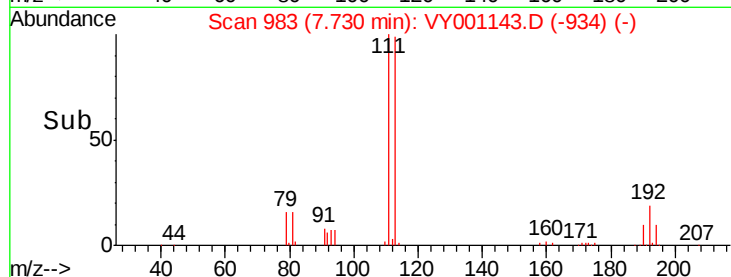
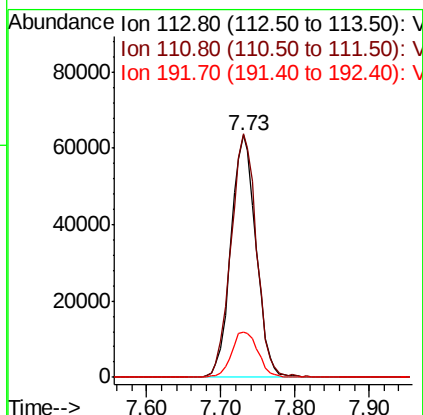
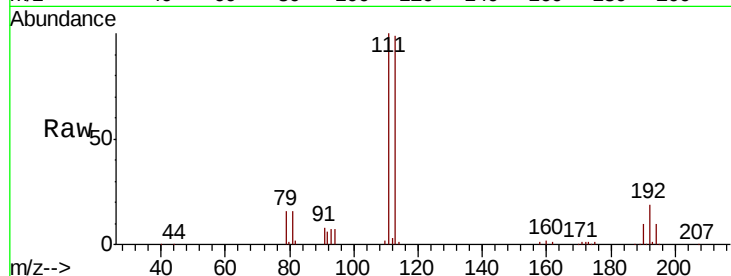




#35  
Dibromofluoromethane  
Concen: 50.460 ug/l  
RT: 7.73 min Scan# 983  
Delta R.T. -0.00 min  
Lab File: VY001143.D  
Acq: 02 Jan 2020 18:37

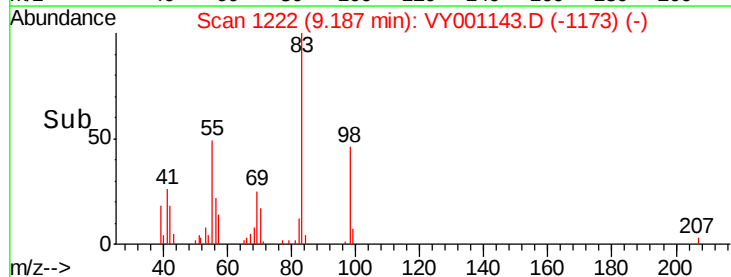
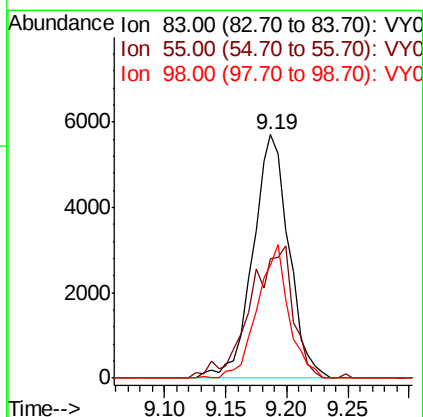
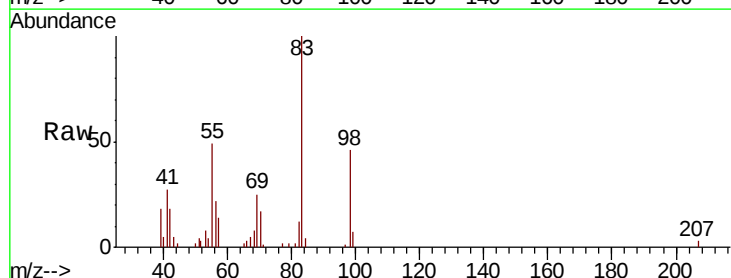
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WP022SB454\_191227-24-26

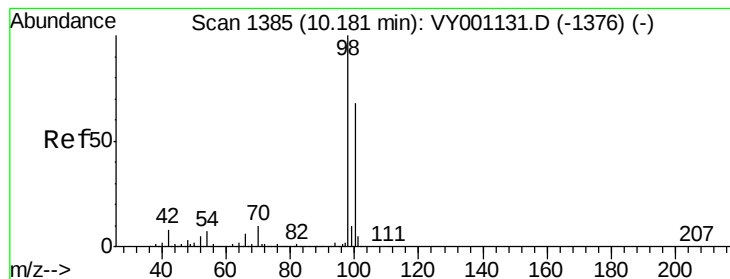
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.0 | 81.0  | 121.4 |
| 192     | 19.8  | 16.4  | 24.6  |



#39  
Methylcyclohexane  
Concen: 1.840 ug/l  
RT: 9.19 min Scan# 1222  
Delta R.T. -0.00 min  
Lab File: VY001143.D  
Acq: 02 Jan 2020 18:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 49.2  | 46.4  | 69.6  |
| 98      | 46.4  | 41.5  | 62.3  |





#50

Toluene-d8

Concen: 53.667 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY001143.D

Acq: 02 Jan 2020 18:37

Instrument :

MSVOA\_Y

ClientSampleId :

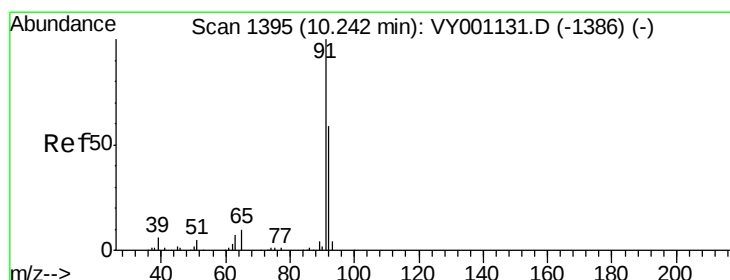
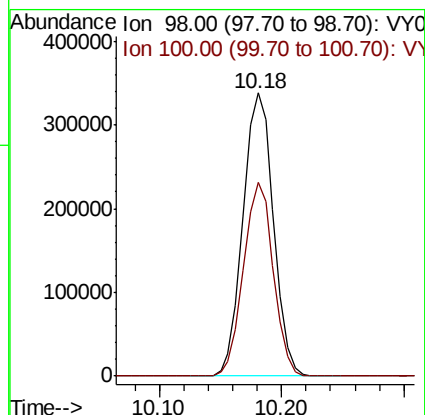
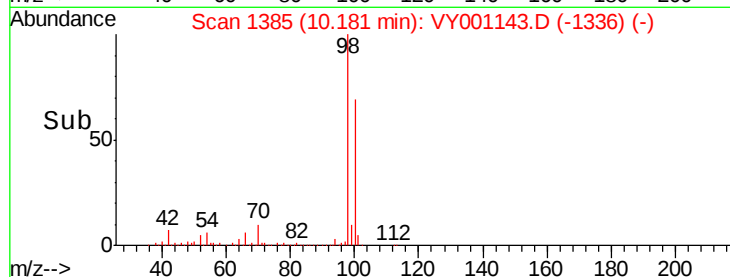
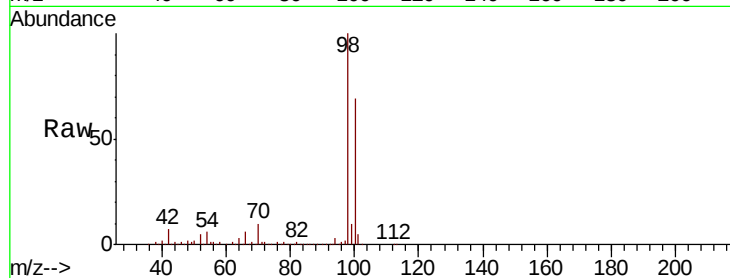
WP022SB454\_191227-24-26

Tot Ion: 98 Resp: 583340

Ion Ratio Lower Upper

98 100

100 67.3 53.2 79.8



#52

Toluene

Concen: 1.428 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. 0.01 min

Lab File: VY001143.D

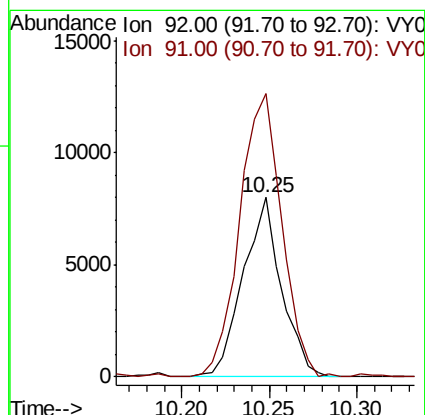
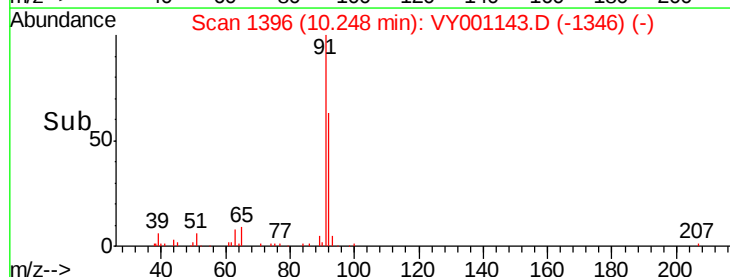
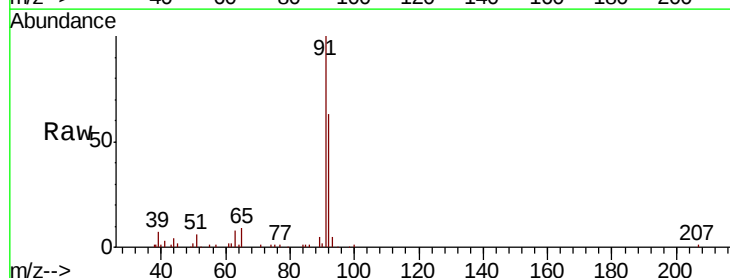
Acq: 02 Jan 2020 18:37

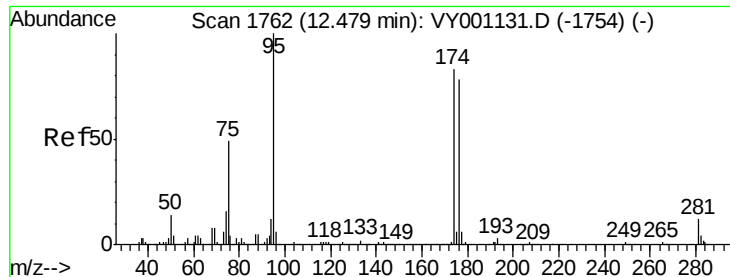
Tgt Ion: 92 Resp: 12215

Ion Ratio Lower Upper

92 100

91 173.0 137.6 206.4

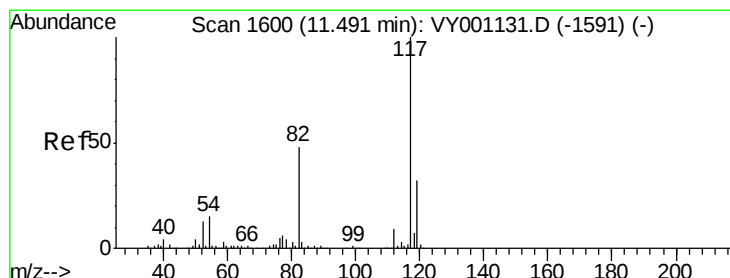
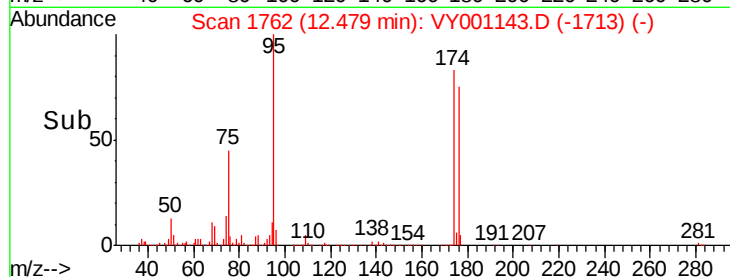
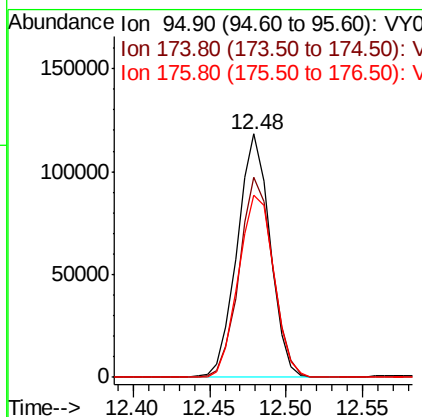
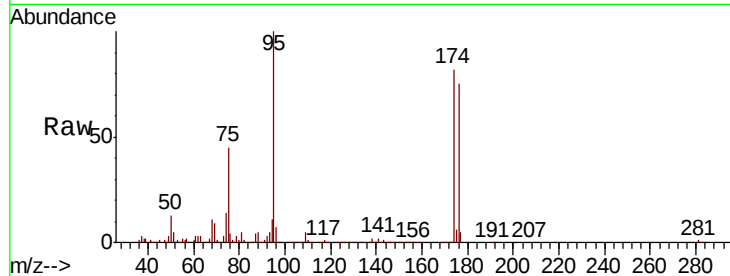




#62  
 4-Bromofluorobenzene  
 Concen: 42.601 ug/l  
 RT: 12.48 min Scan# 1762  
 Delta R.T. -0.00 min  
 Lab File: VY001143.D  
 Acq: 02 Jan 2020 18:37

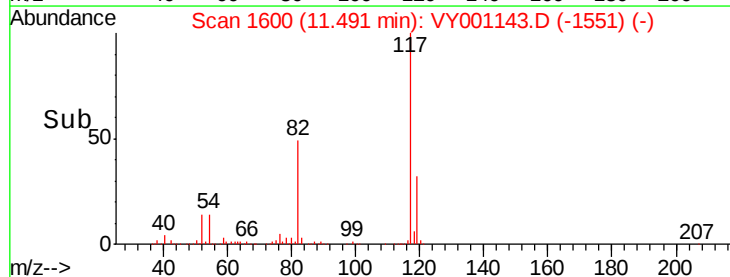
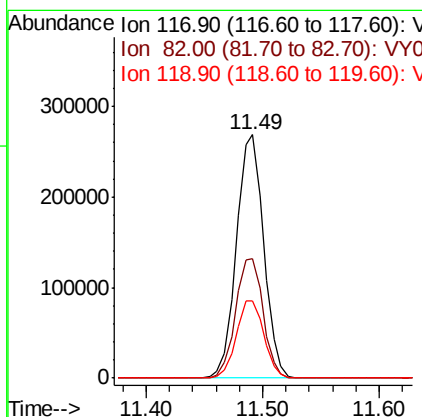
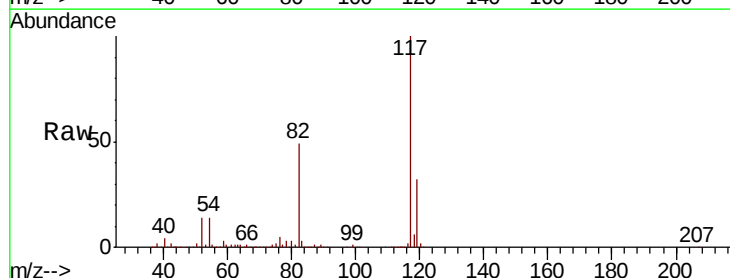
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 WP022SB454\_191227-24-26

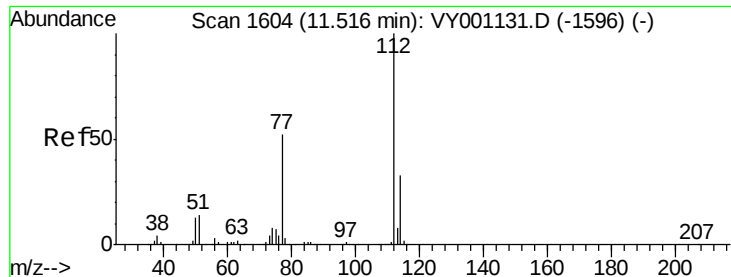
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 83.7  | 0.0   | 171.8 |
| 176     | 81.0  | 0.0   | 163.6 |



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.49 min Scan# 1600  
 Delta R.T. -0.00 min  
 Lab File: VY001143.D  
 Acq: 02 Jan 2020 18:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 49.1  | 38.5  | 57.7  |
| 119     | 31.5  | 25.9  | 38.9  |





#65

Chlorobenzene

Concen: 1.642 ug/l

RT: 11.52 min Scan# 1604

Delta R.T. -0.00 min

Lab File: VY001143.D

Acq: 02 Jan 2020 18:37

Instrument :

MSVOA\_Y

ClientSampleId :

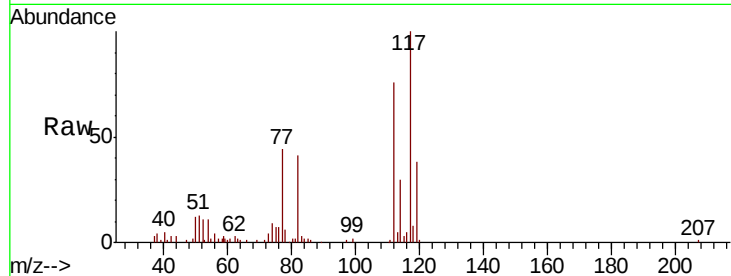
WP022SB454\_191227-24-26

Tot Ion:112 Resp: 15330

Ion Ratio Lower Upper

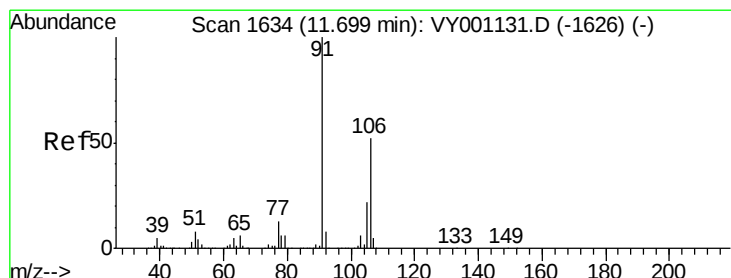
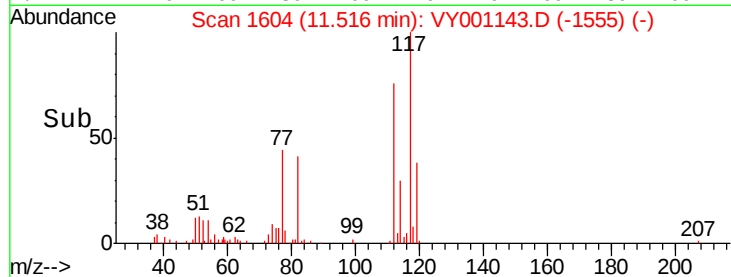
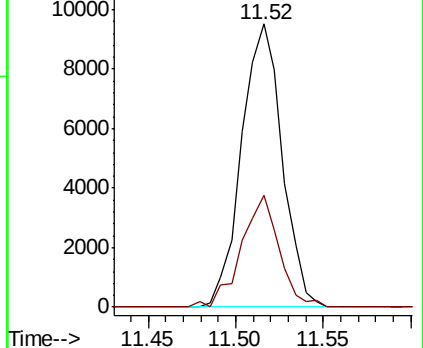
112 100

114 39.6 26.5 39.7



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#68

m/p-Xylenes

Concen: 1.303 ug/l

RT: 11.70 min Scan# 1634

Delta R.T. -0.00 min

Lab File: VY001143.D

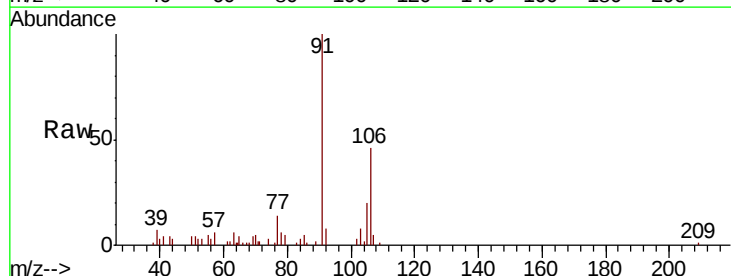
Acq: 02 Jan 2020 18:37

Tgt Ion:106 Resp: 8379

Ion Ratio Lower Upper

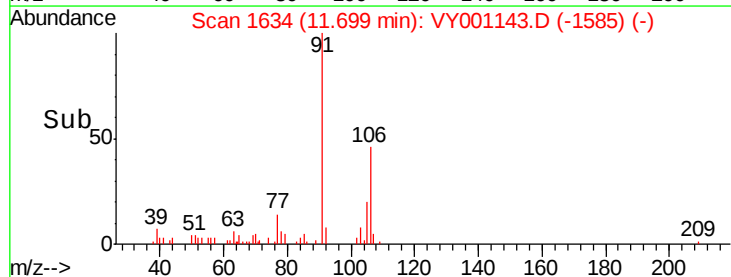
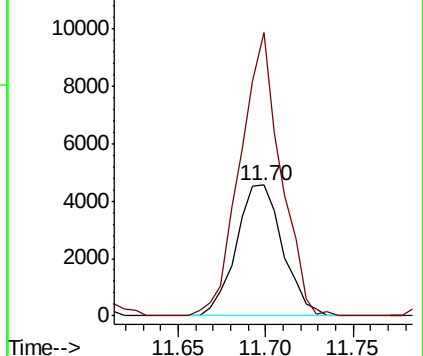
106 100

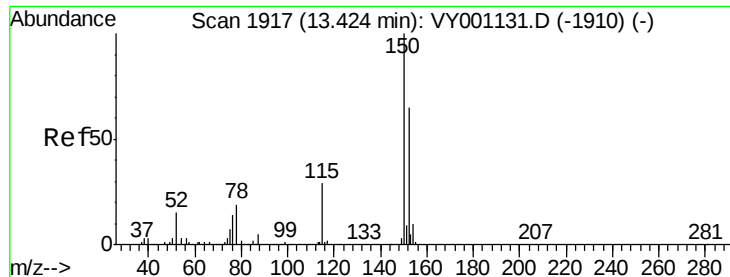
91 189.6 154.3 231.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. -0.00 min

Lab File: VY001143.D

Acq: 02 Jan 2020 18:37

Instrument :

MSVOA\_Y

ClientSampleId :

WP022SB454\_191227-24-26

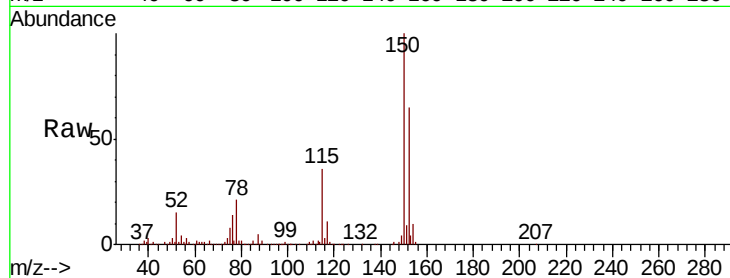
Tot Ion:152 Resp: 165659

Ion Ratio Lower Upper

152 100

115 56.5 27.7 83.0

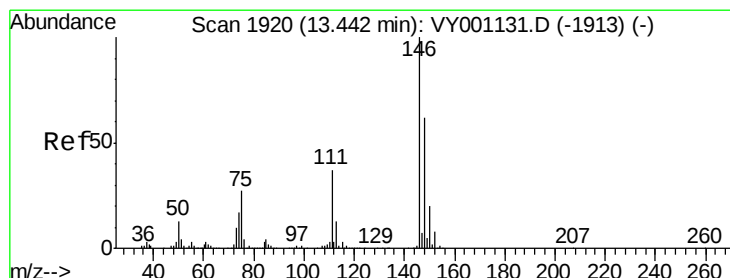
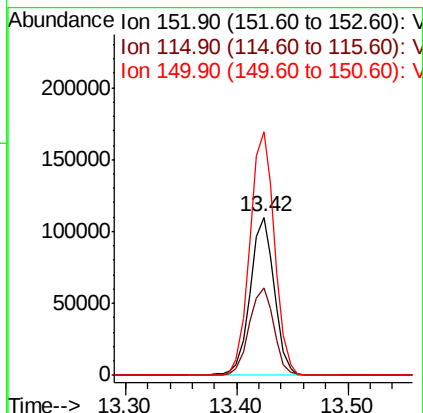
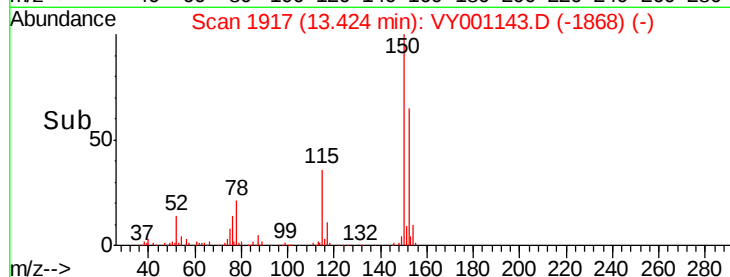
150 156.8 0.0 342.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#88

1,4-Dichlorobenzene

Concen: 2.340 ug/l

RT: 13.44 min Scan# 1920

Delta R.T. -0.00 min

Lab File: VY001143.D

Acq: 02 Jan 2020 18:37

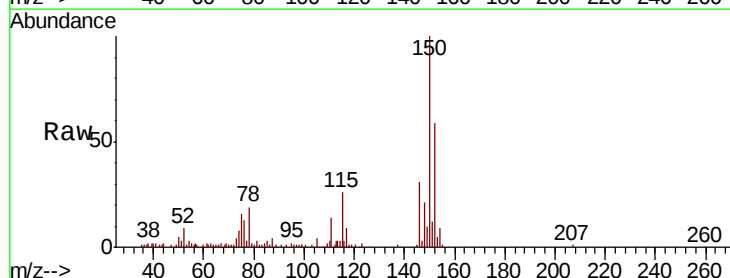
Tgt Ion:146 Resp: 13317

Ion Ratio Lower Upper

146 100

111 61.2 19.1 57.3#

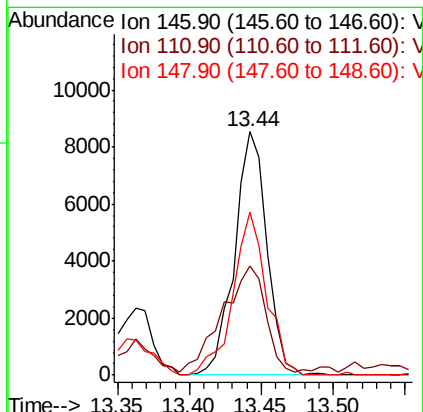
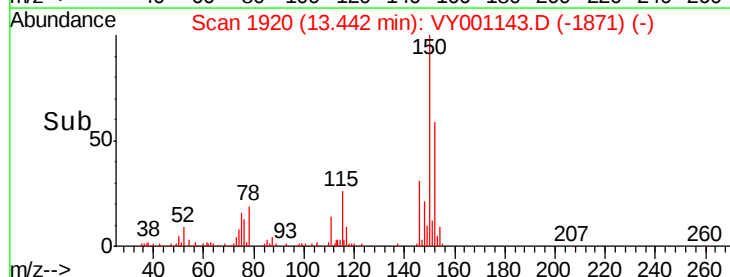
148 69.7 32.0 96.0

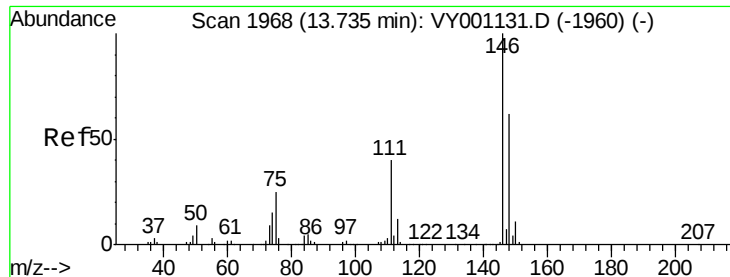


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

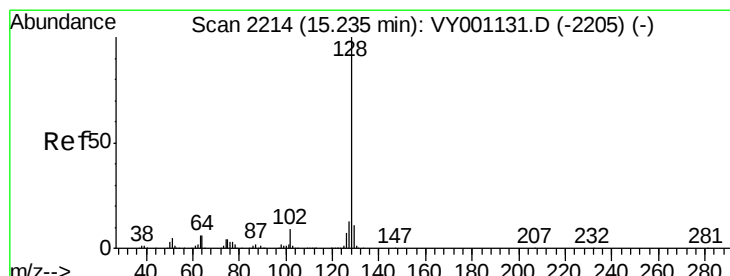
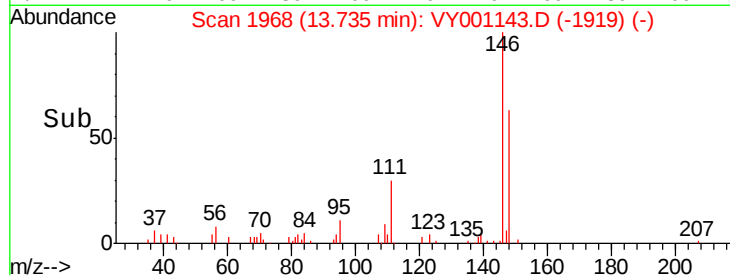
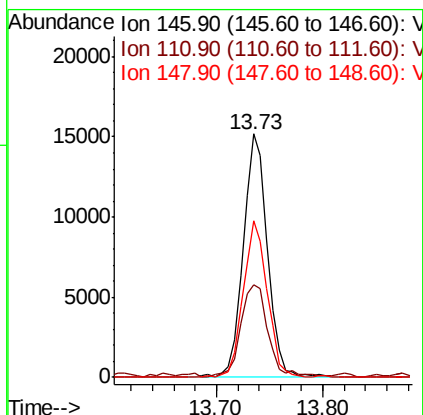
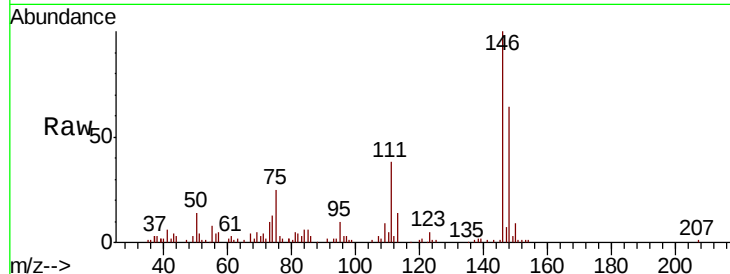




#91  
 1,2-Dichlorobenzene  
 Concen: 4.677 ug/l  
 RT: 13.73 min Scan# 1968  
 Delta R.T. -0.00 min  
 Lab File: VY001143.D  
 Acq: 02 Jan 2020 18:37

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 WP022SB454\_191227-24-26

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.5  | 20.1  | 60.3  |
| 148     | 63.8  | 31.9  | 95.5  |



#95  
 Naphthalene  
 Concen: 1.298 ug/l  
 RT: 15.23 min Scan# 2214  
 Delta R.T. -0.00 min  
 Lab File: VY001143.D  
 Acq: 02 Jan 2020 18:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 30.6  | 10.1  | 15.1# |
| 129     | 17.6  | 8.7   | 13.1# |

