

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY110619\  
 Data File : VY000553.D  
 Acq On : 06 Nov 2019 15:54  
 Operator : SY/MD  
 Sample : K5710-10  
 Misc : 6.51G/5ML/MSVOA Y/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP- 32-D2

Quant Time: Nov 07 04:57:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 30 13:30:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 193881   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 347046   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 319729   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 151347   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.15  | 65   | 118249   | 58.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 117.88% |          |
| 35) Dibromofluoromethane    | 7.72  | 113  | 103904   | 51.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.00% |          |
| 50) Toluene-d8              | 10.18 | 98   | 409522   | 52.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.94% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 140743   | 47.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.64%  |          |

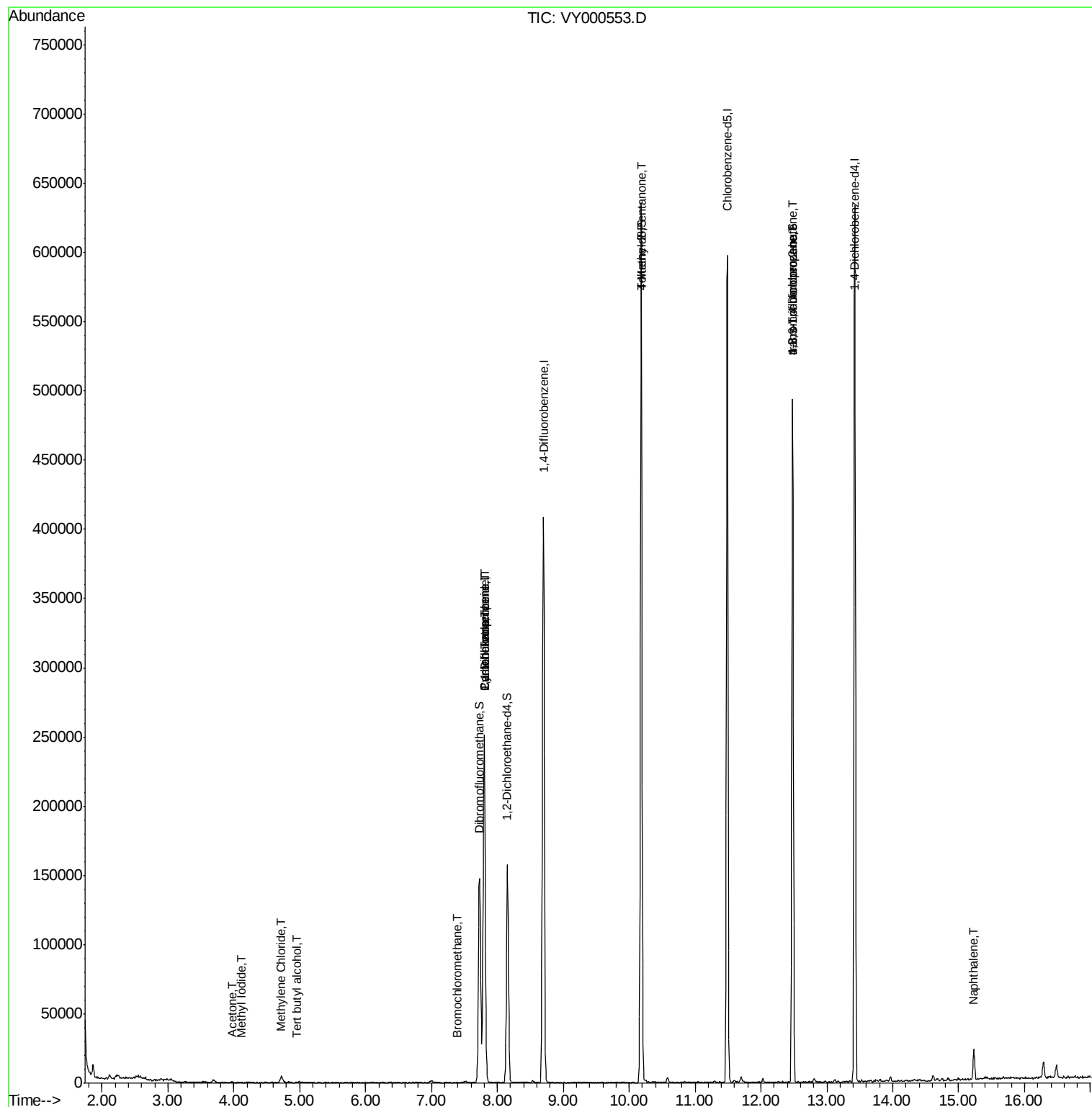
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 10) Methyl Iodide              | 4.10  | 142  | 81       | 3.228   | ug/l # | 41     |
| 11) Tert butyl alcohol         | 4.96  | 59   | 227      | 1.162   | ug/l # | 72     |
| 16) Acetone                    | 3.97  | 43   | 825      | 1.492   | ug/l # | 72     |
| 20) Methylene Chloride         | 4.72  | 84   | 3180     | 1.342   | ug/l # | 67     |
| 28) Bromochloromethane         | 7.40  | 49   | 23       | 4.105   | ug/l # | 14     |
| 31) Cyclohexane                | 7.80  | 56   | 4274     | 1.100   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 15379    | 4.688   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 19406    | 6.147   | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.17 | 43   | 2053     | 1.055   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 76960    | 44.659  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 76960    | 100.131 | ug/l # | 13     |
| 95) Naphthalene                | 15.23 | 128  | 15566    | 2.284   | ug/l   | 95     |

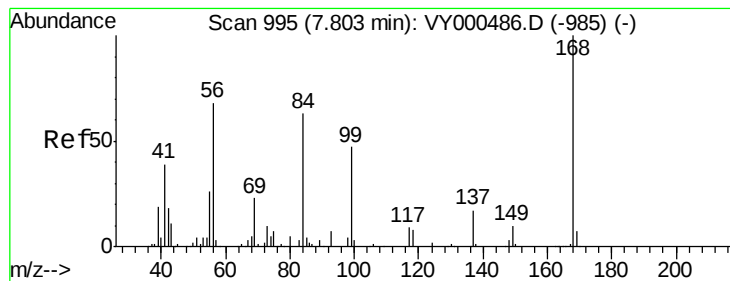
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY110619\  
Data File : VY000553.D  
Acq On : 06 Nov 2019 15:54  
Operator : SY/MD  
Sample : K5710-10  
Misc : 6.51G/5ML/MSVOA Y/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP- 32-D2

Quant Time: Nov 07 04:57:18 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 30 13:30:53 2019  
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: VY000553.D

Acq: 06 Nov 2019 15:54

Instrument :

MSVOA\_Y

ClientSampleId :

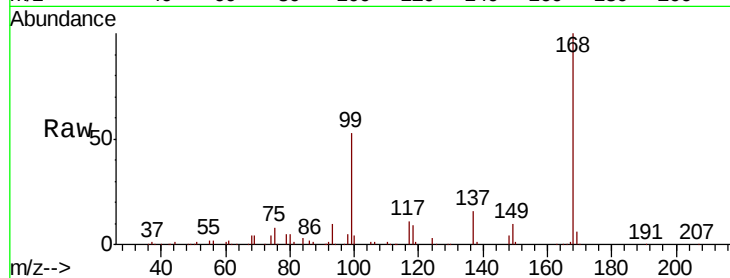
TP- 32-D2

Tot Ion:168 Resp: 193881

Ion Ratio Lower Upper

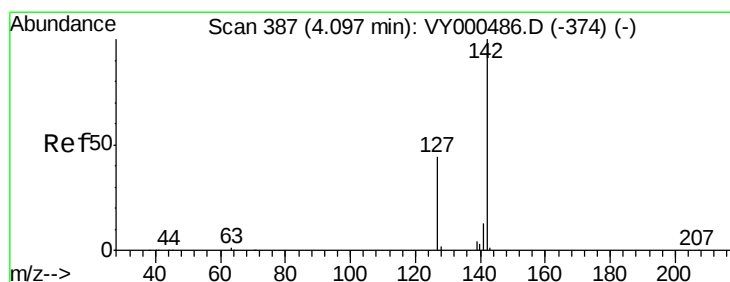
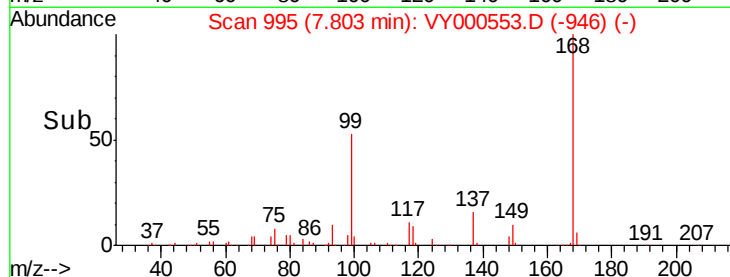
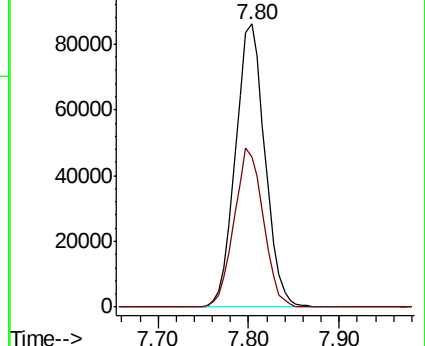
168 100

99 53.1 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VY0



#10

Methyl Iodide

Concen: 3.228 ug/l

RT: 4.10 min Scan# 388

Delta R.T. 0.01 min

Lab File: VY000553.D

Acq: 06 Nov 2019 15:54

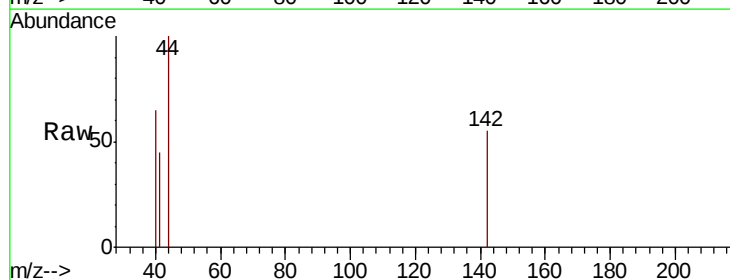
Tgt Ion:142 Resp: 81

Ion Ratio Lower Upper

142 100

127 0.0 33.7 50.5#

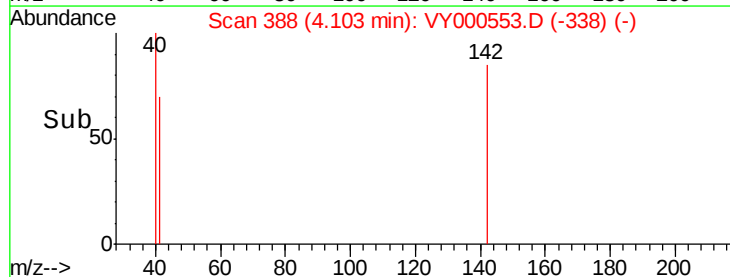
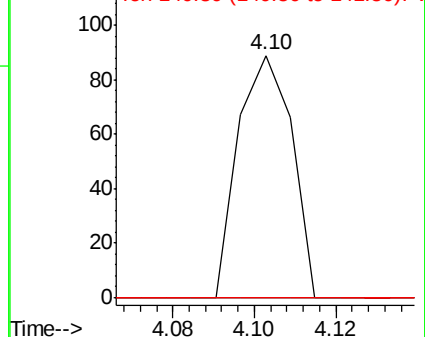
141 0.0 10.9 16.3#

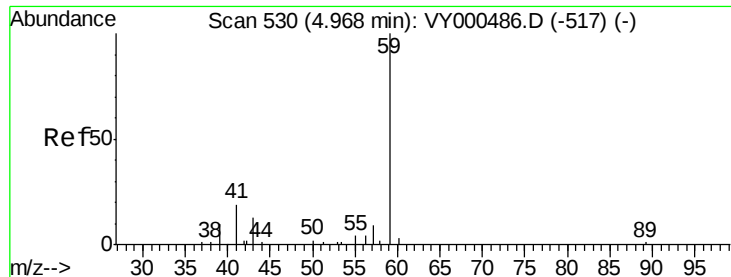


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

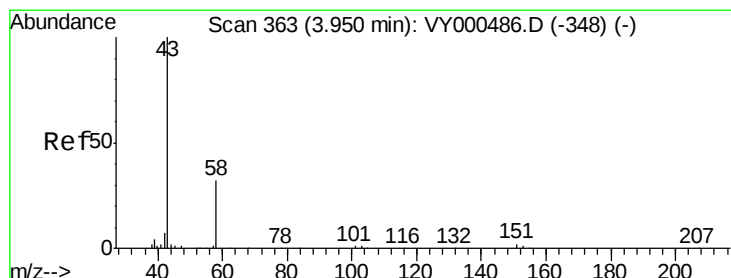
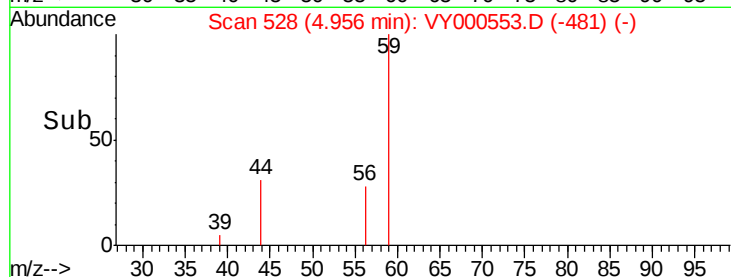
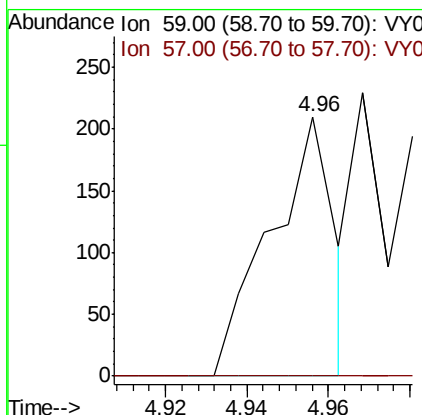
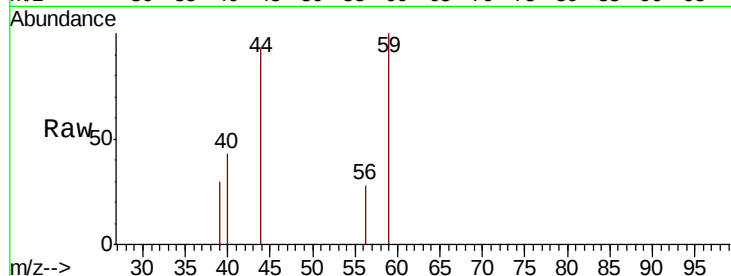




#11  
Tert butyl alcohol  
Concen: 1.162 ug/l  
RT: 4.96 min Scan# 528  
Delta R.T. -0.01 min  
Lab File: VY000553.D  
Acq: 06 Nov 2019 15:54

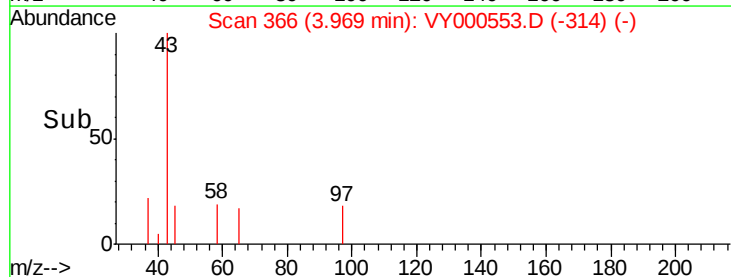
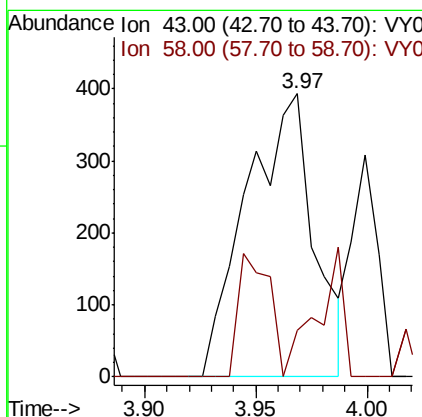
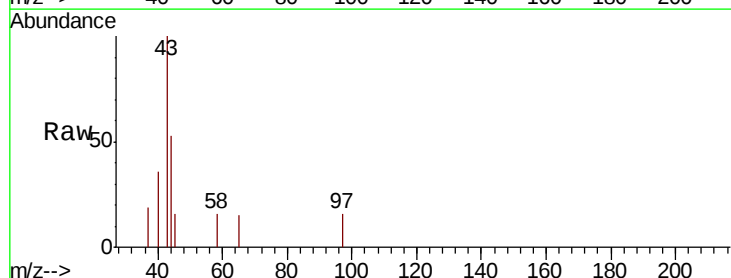
Instrument :  
MSVOA\_Y  
ClientSampled :  
TP- 32-D2

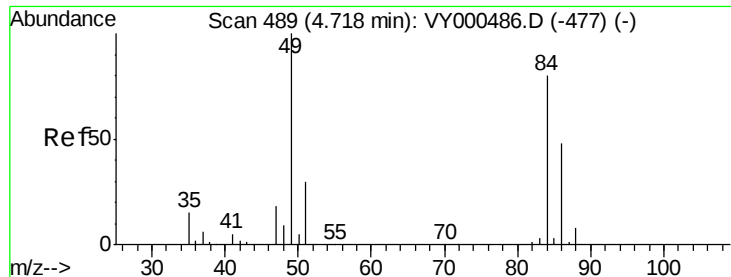
Tot Ion: 59 Resp: 227  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 12.8#



#16  
Acetone  
Concen: 1.492 ug/l  
RT: 3.97 min Scan# 366  
Delta R.T. 0.02 min  
Lab File: VY000553.D  
Acq: 06 Nov 2019 15:54

Tgt Ion: 43 Resp: 825  
Ion Ratio Lower Upper  
43 100  
58 16.3 25.8 38.6#

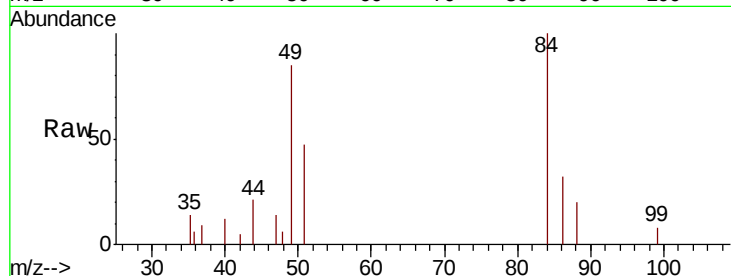




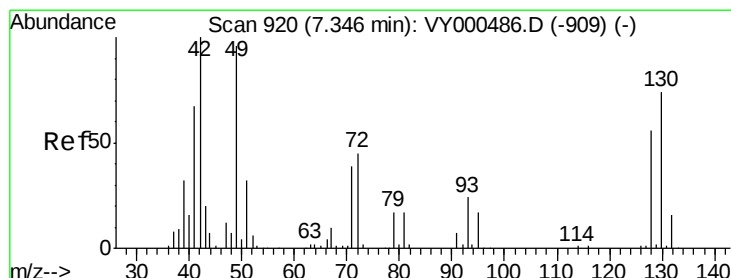
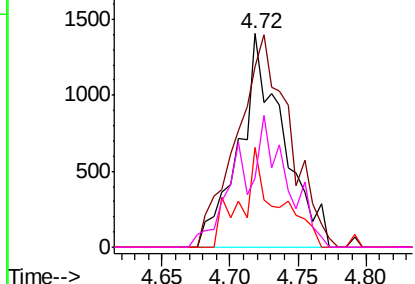
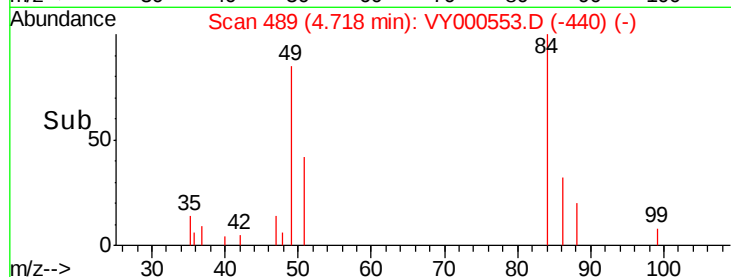
#20  
Methvlene Chloride  
Concen: 1.342 ug/l  
RT: 4.72 min Scan# 489  
Delta R.T. 0.00 min  
Lab File: VY000553.D  
Acq: 06 Nov 2019 15:54

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP- 32-D2

Tot Ion: 84 Resp: 3180  
Ion Ratio Lower Upper  
84 100  
49 84.6 100.2 150.4#  
51 46.5 29.6 44.4#  
86 32.4 48.3 72.5#

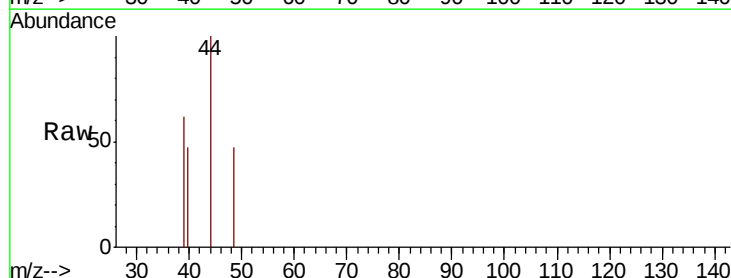


Abundance Ion 83.90 (83.60 to 84.60): VY0  
Ion 48.90 (48.60 to 49.60): VY0  
Ion 50.90 (50.60 to 51.60): VY0  
Ion 85.90 (85.60 to 86.60): VY0

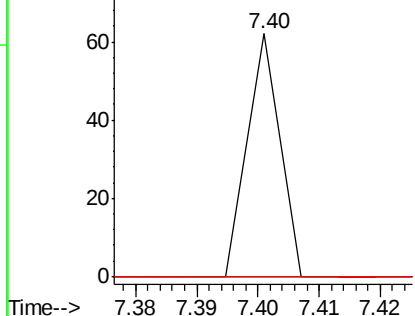
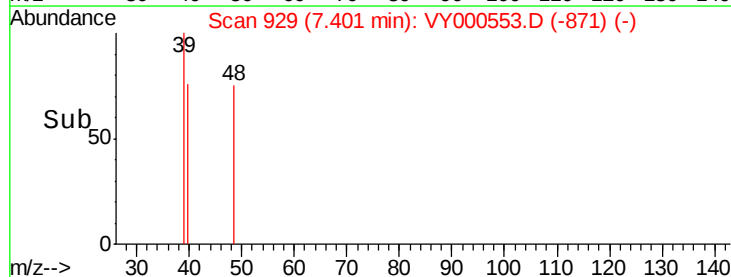


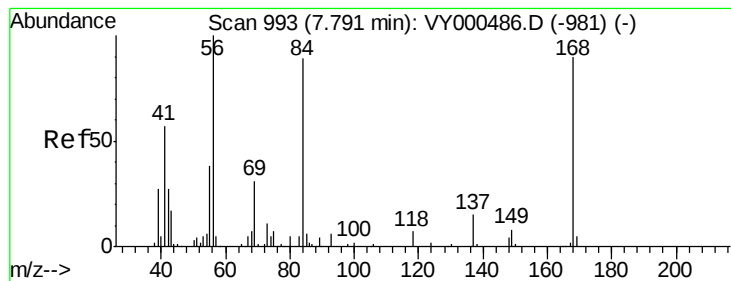
#28  
Bromochloromethane  
Concen: 4.105 ug/l  
RT: 7.40 min Scan# 929  
Delta R.T. 0.06 min  
Lab File: VY000553.D  
Acq: 06 Nov 2019 15:54

Tgt Ion: 49 Resp: 23  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 3.6  
130 0.0 59.4 89.0#



Abundance Ion 48.90 (48.60 to 49.60): VY0  
Ion 128.80 (128.50 to 129.50): V  
Ion 129.80 (129.50 to 130.50): V





#31

Cyclohexane

Concen: 1.100 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.01 min

Lab File: VY000553.D

Acq: 06 Nov 2019 15:54

Instrument :

MSVOA\_Y

ClientSampleId :

TP- 32-D2

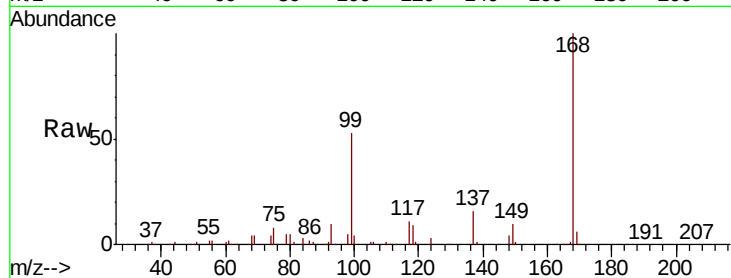
Tot Ion: 56 Resp: 4274

Ion Ratio Lower Upper

56 100

69 149.2 25.0 37.6#

84 146.6 71.4 107.2#

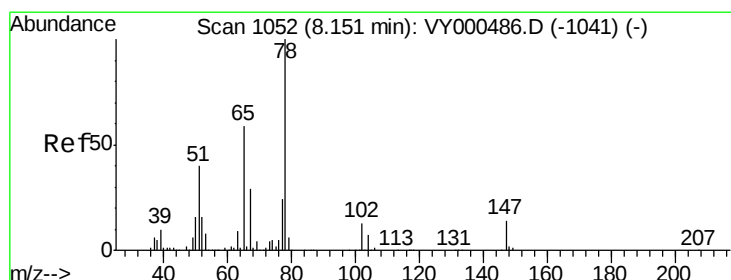
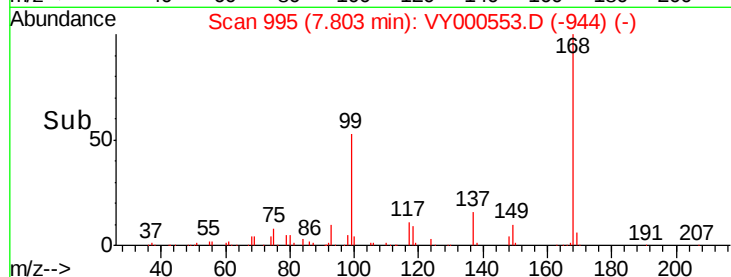
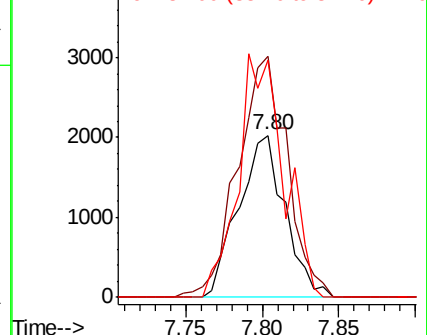


Abundance

Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 58.935 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VY000553.D

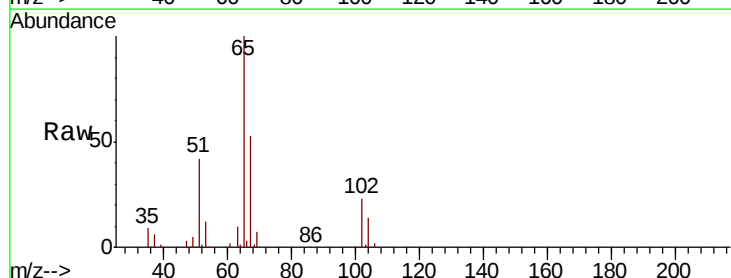
Acq: 06 Nov 2019 15:54

Tgt Ion: 65 Resp: 118249

Ion Ratio Lower Upper

65 100

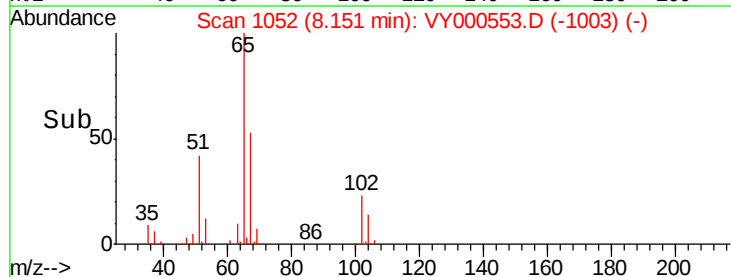
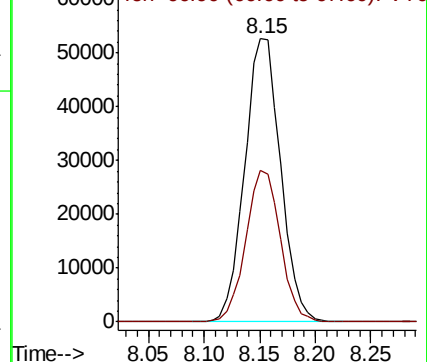
67 51.5 0.0 107.2

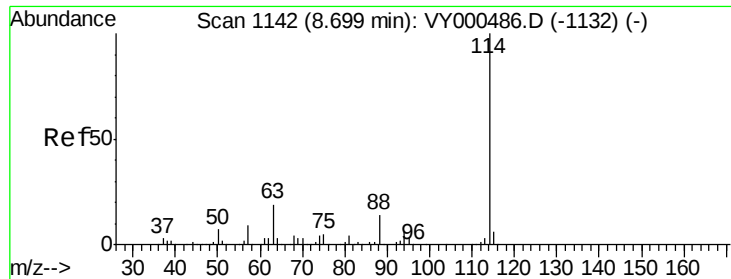


Abundance

Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0

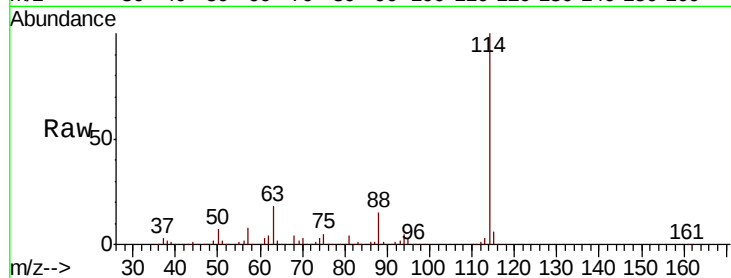




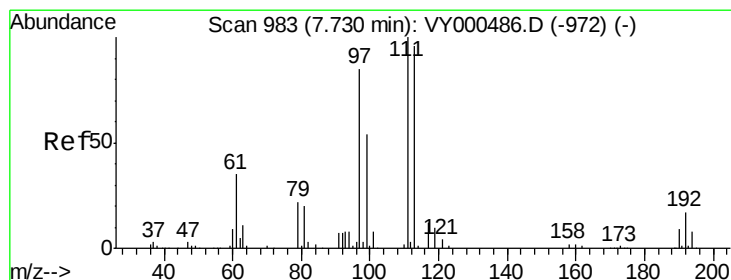
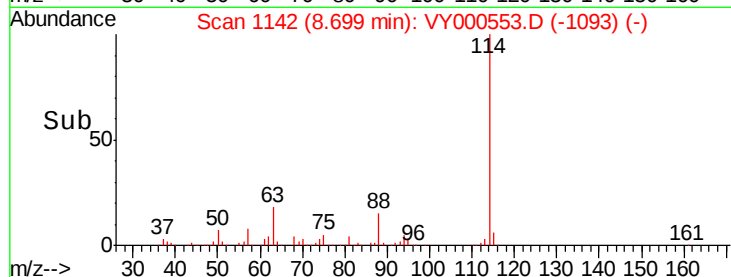
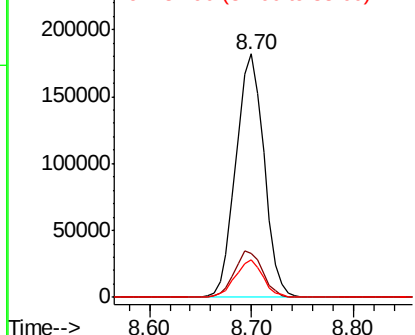
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.70 min Scan# 1142  
 Delta R.T. 0.00 min  
 Lab File: VY000553.D  
 Acq: 06 Nov 2019 15:54

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP- 32-D2

Tot Ion:114 Resp: 347046  
 Ion Ratio Lower Upper  
 114 100  
 63 18.2 0.0 38.0  
 88 15.3 0.0 28.6

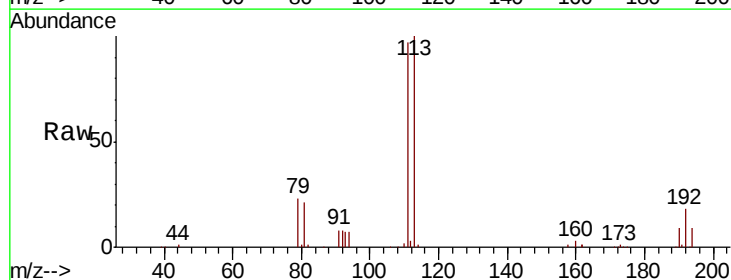


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VY0  
 Ion 87.90 (87.60 to 88.60): VY0

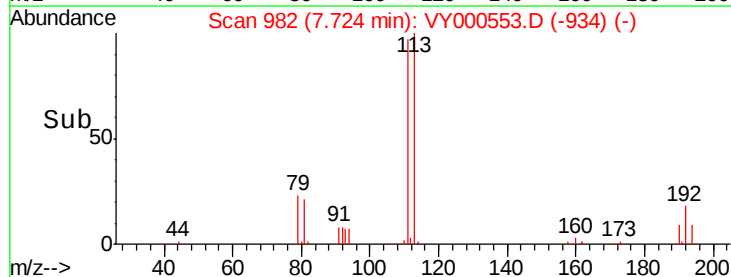
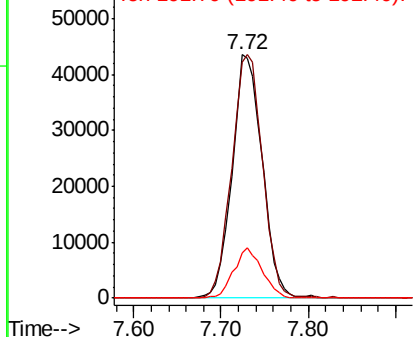


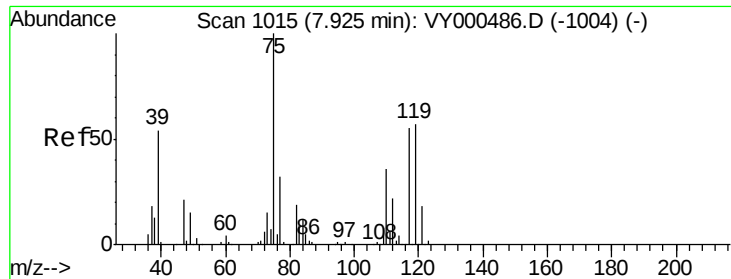
#35  
 Dibromofluoromethane  
 Concen: 50.999 ug/l  
 RT: 7.72 min Scan# 982  
 Delta R.T. -0.01 min  
 Lab File: VY000553.D  
 Acq: 06 Nov 2019 15:54

Tgt Ion:113 Resp: 103904  
 Ion Ratio Lower Upper  
 113 100  
 111 102.5 81.7 122.5  
 192 19.6 15.0 22.4



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

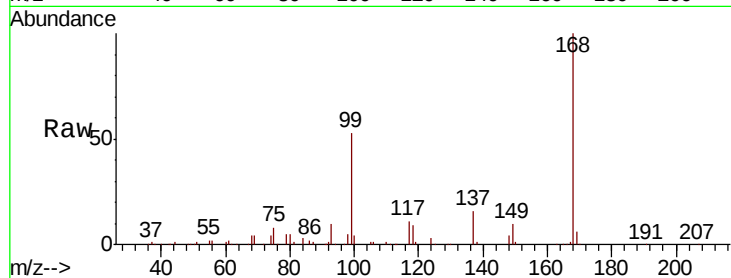




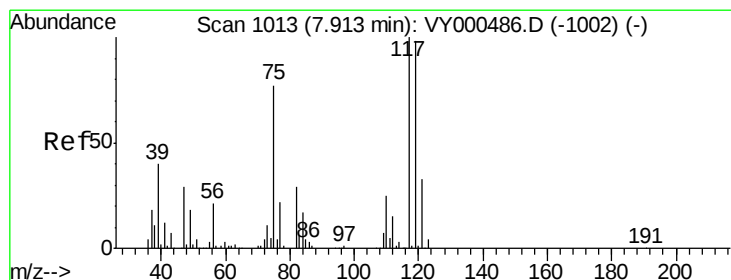
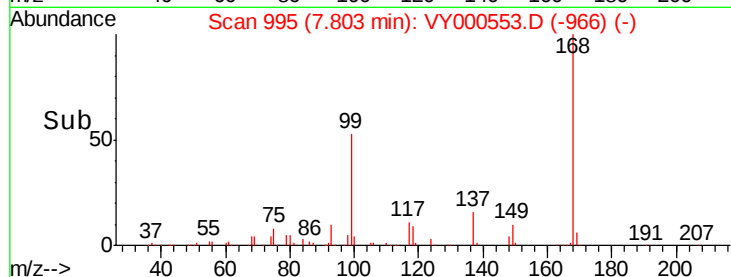
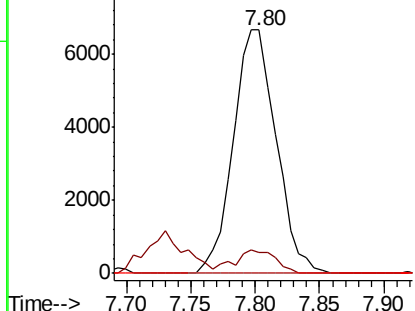
#36  
 1,1-Dichloropropene  
 Concen: 4.688 ug/l  
 RT: 7.80 min Scan# 995  
 Delta R.T. -0.12 min  
 Lab File: VY000553.D  
 Acq: 06 Nov 2019 15:54

Instrument :  
 MSVOA\_Y  
 ClientSampleID :  
 TP- 32-D2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.1   | 18.1  | 54.1# |
| 77      | 0.0   | 25.0  | 37.6# |

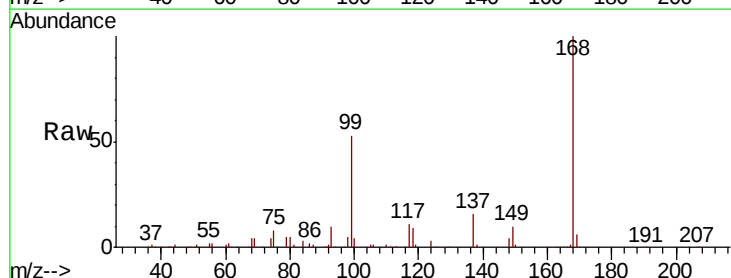


Abundance Ion 74.90 (74.60 to 75.60): VY0  
 Ion 109.90 (109.60 to 110.60): VY0  
 Ion 76.90 (76.60 to 77.60): VY0

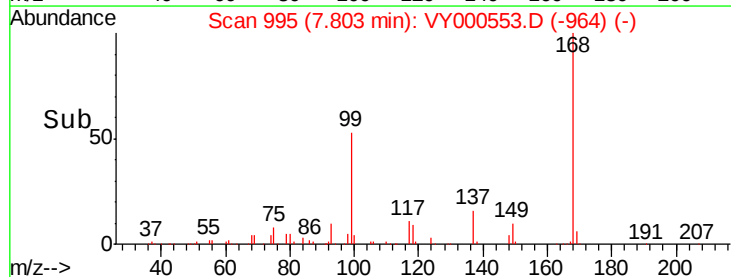
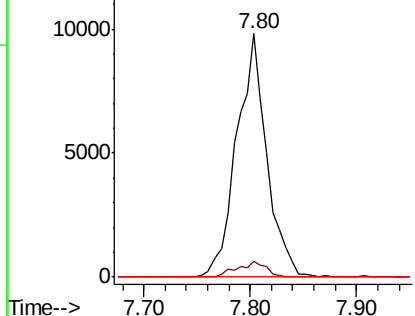


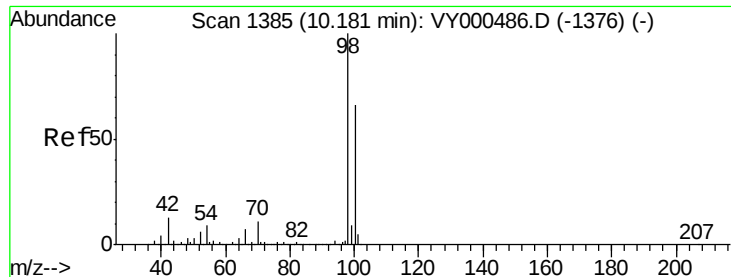
#38  
 Carbon Tetrachloride  
 Concen: 6.147 ug/l  
 RT: 7.80 min Scan# 995  
 Delta R.T. -0.11 min  
 Lab File: VY000553.D  
 Acq: 06 Nov 2019 15:54

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.3   | 78.0  | 117.0# |
| 121     | 0.0   | 26.6  | 40.0#  |



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





#50

Toluene-d8

Concen: 52.973 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY000553.D

Acq: 06 Nov 2019 15:54

Instrument :

MSVOA\_Y

ClientSampled :

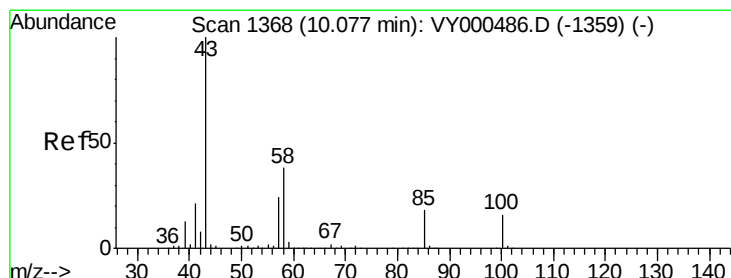
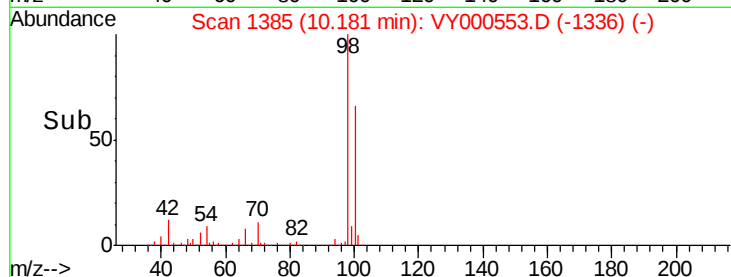
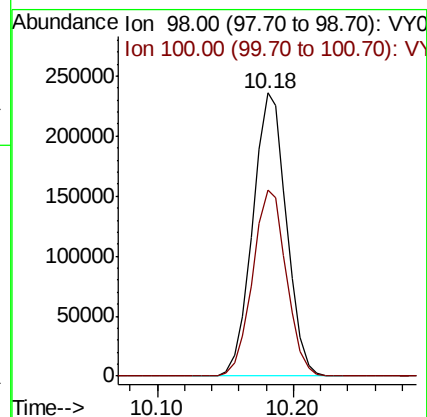
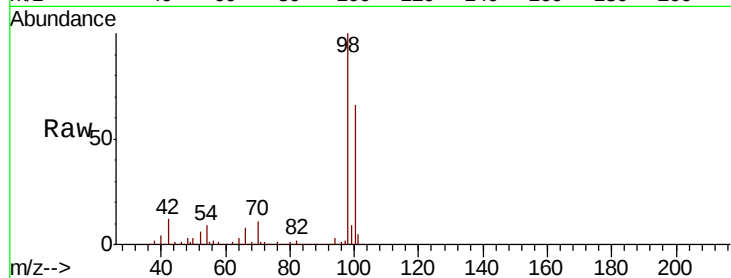
TP- 32-D2

Tot Ion: 98 Resp: 409522

Ion Ratio Lower Upper

98 100

100 65.6 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 1.055 ug/l

RT: 10.17 min Scan# 1384

Delta R.T. 0.10 min

Lab File: VY000553.D

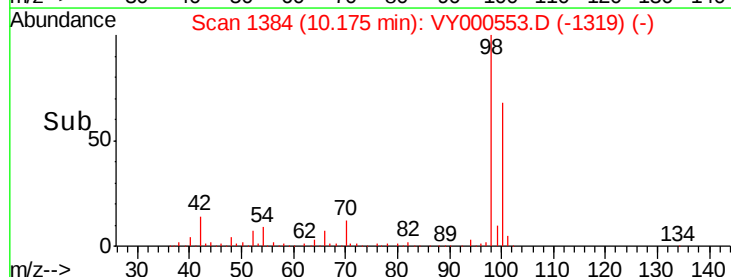
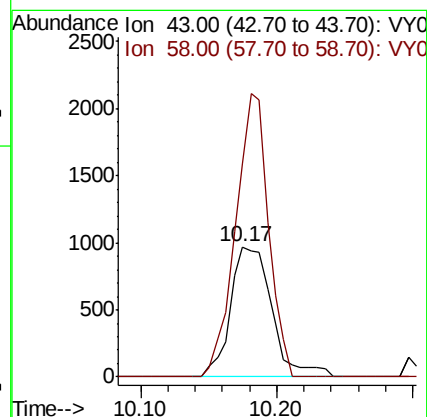
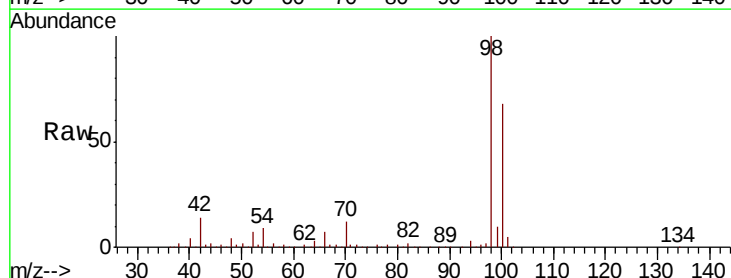
Acq: 06 Nov 2019 15:54

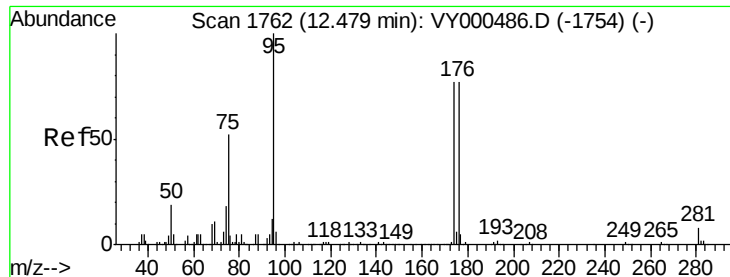
Tgt Ion: 43 Resp: 2053

Ion Ratio Lower Upper

43 100

58 173.2 30.2 45.4#

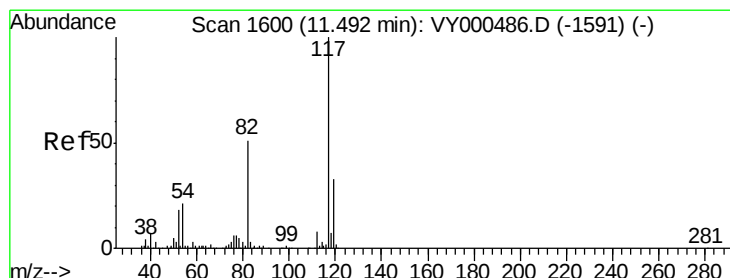
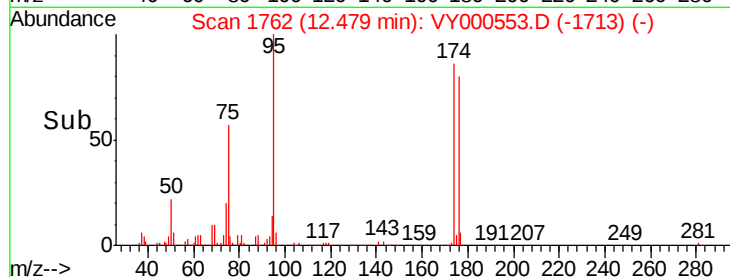
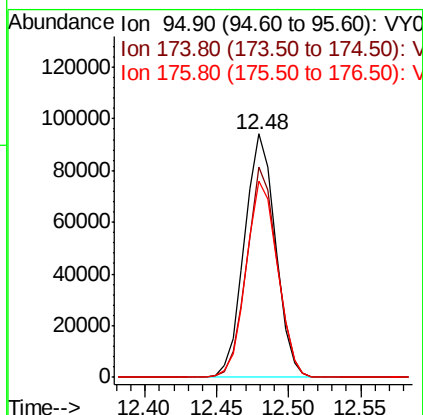
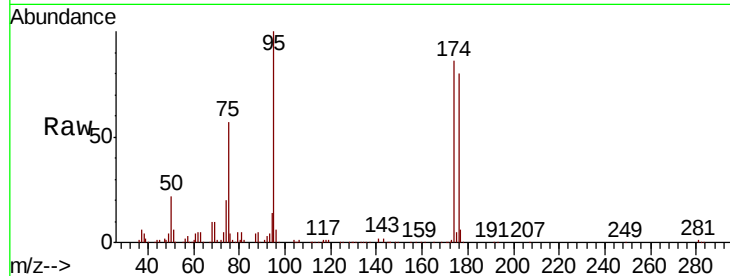




#62  
4-Bromofluorobenzene  
Concen: 47.822 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. 0.00 min  
Lab File: VY000553.D  
Acq: 06 Nov 2019 15:54

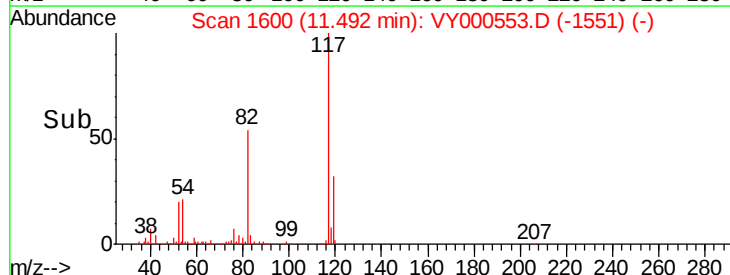
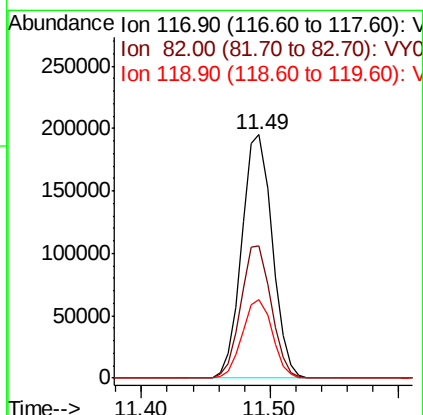
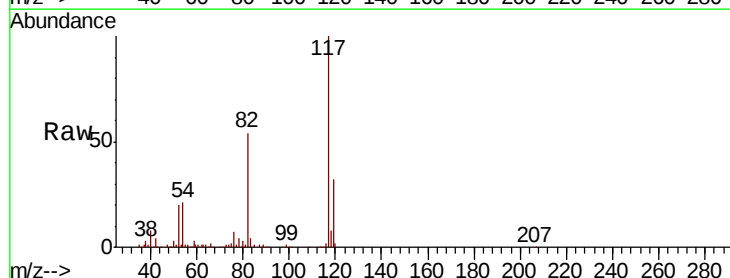
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP- 32-D2

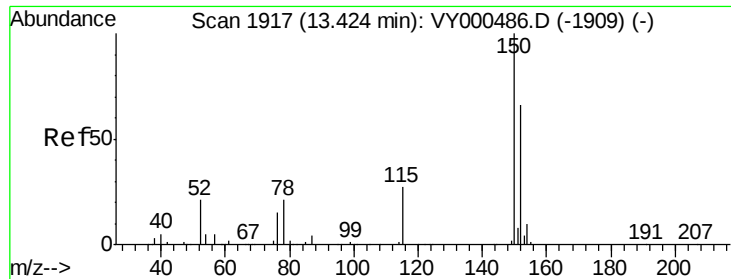
Tot Ion: 95 Resp: 140743  
Ion Ratio Lower Upper  
95 100  
174 84.1 0.0 161.6  
176 81.2 0.0 157.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VY000553.D  
Acq: 06 Nov 2019 15:54

Tgt Ion: 117 Resp: 319729  
Ion Ratio Lower Upper  
117 100  
82 54.2 40.8 61.2  
119 32.3 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VY000553.D

Acq: 06 Nov 2019 15:54

Instrument :

MSVOA\_Y

ClientSampleId :

TP- 32-D2

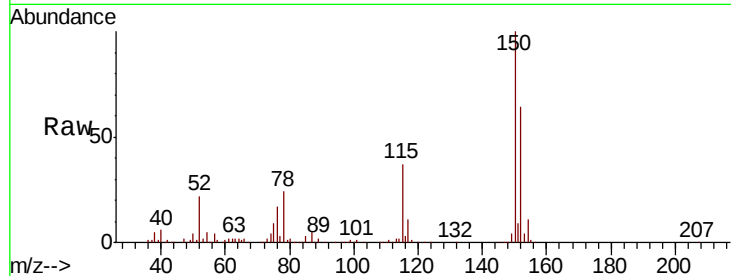
Tot Ion:152 Resp: 151347

Ion Ratio Lower Upper

152 100

115 57.7 29.1 87.4

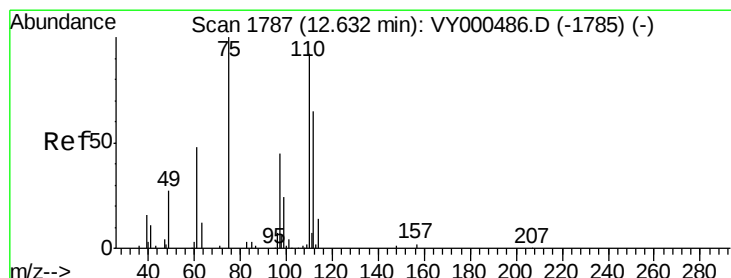
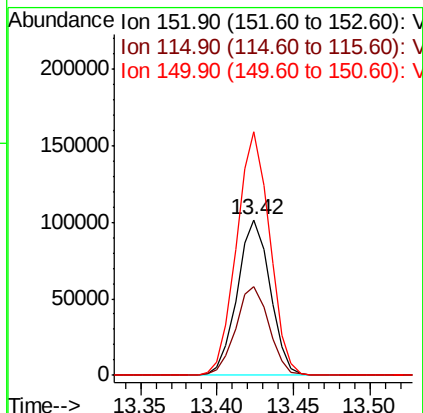
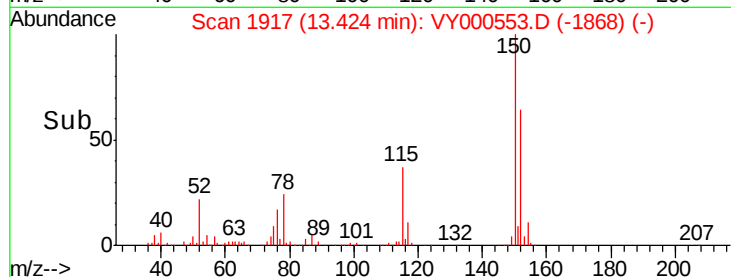
150 157.9 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 44.659 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY000553.D

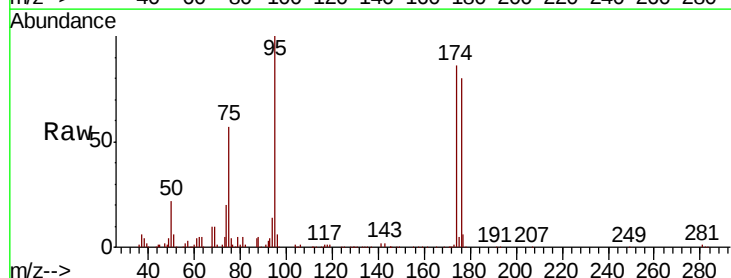
Acq: 06 Nov 2019 15:54

Tgt Ion: 75 Resp: 76960

Ion Ratio Lower Upper

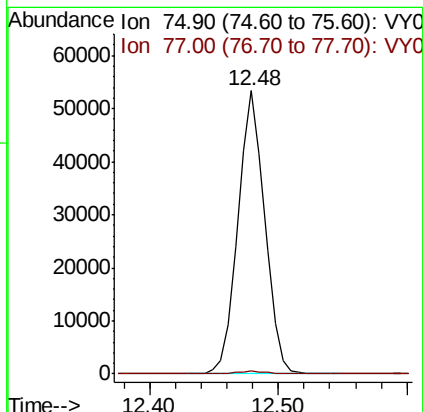
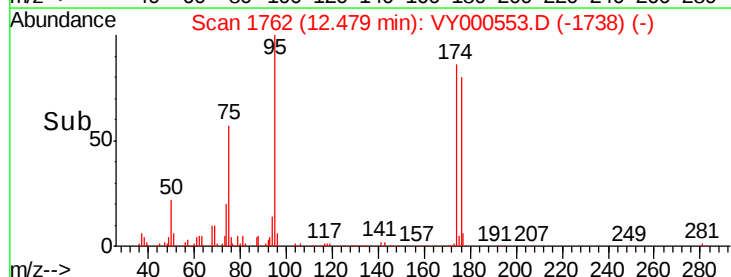
75 100

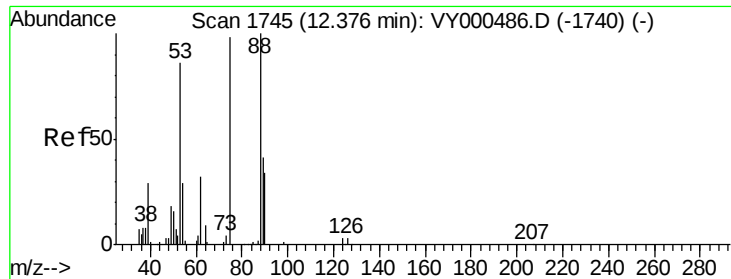
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0

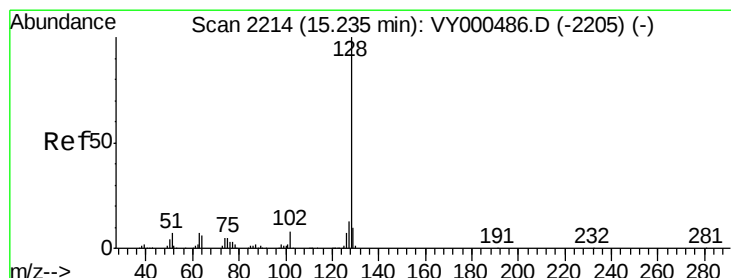
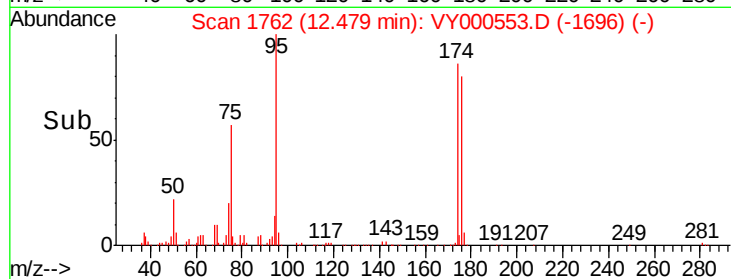
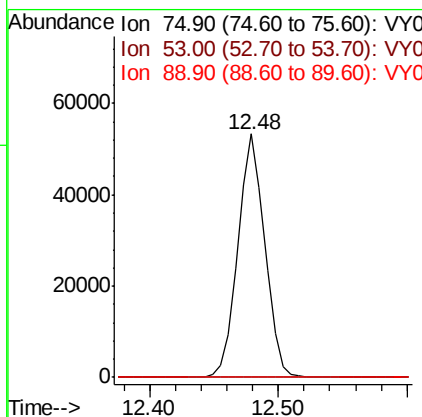
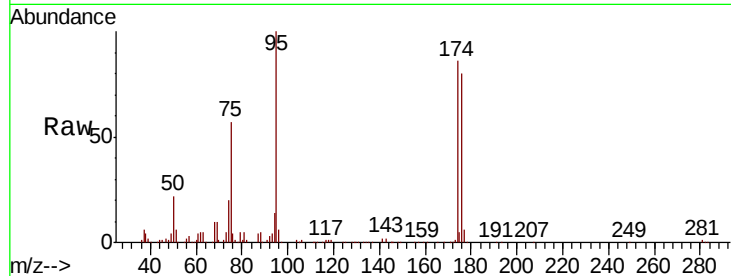




#81  
trans-1,4-Dichloro-2-butene  
Concen: 100.131 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. 0.10 min  
Lab File: VY000553.D  
Acq: 06 Nov 2019 15:54

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP- 32-D2

Tot Ion: 75 Resp: 76960  
Ion Ratio Lower Upper  
75 100  
53 0.0 73.2 109.8#  
89 0.3 35.9 53.9#



#95  
Naphthalene  
Concen: 2.284 ug/l  
RT: 15.23 min Scan# 2213  
Delta R.T. -0.01 min  
Lab File: VY000553.D  
Acq: 06 Nov 2019 15:54

Tgt Ion:128 Resp: 15566  
Ion Ratio Lower Upper  
128 100  
127 10.1 9.8 14.6  
129 12.9 8.7 13.1

