

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050119\  
 Data File : VD062105.D  
 Acq On : 1 May 2019 16:19  
 Operator : FY/SY  
 Sample : K2654-01RE  
 Misc : 5.04g/5mL/MSVOA D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OILY-STONESRE

Quant Time: May 02 00:58:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D042319S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 01 08:37:17 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.02  | 168  | 23554    | 50.00 | ug/l  | -0.03    |
| 34) 1,4-Difluorobenzene    | 8.19  | 114  | 37501    | 50.00 | ug/l  | -0.03    |
| 63) Chlorobenzene-d5       | 12.35 | 117  | 34633    | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 14.50 | 152  | 16655    | 50.00 | ug/l  | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.43  | 65   | 14898    | 80.81 | ug/l    | -0.03    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 161.62% |          |
| 35) Dibromofluoromethane    | 6.89  | 113  | 14221    | 54.83 | ug/l    | -0.04    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 109.66% |          |
| 50) Toluene-d8              | 10.39 | 98   | 28509    | 46.20 | ug/l    | -0.03    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 92.40%  |          |
| 62) 4-Bromofluorobenzene    | 13.54 | 95   | 13083    | 52.85 | ug/l    | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 105.70% |          |

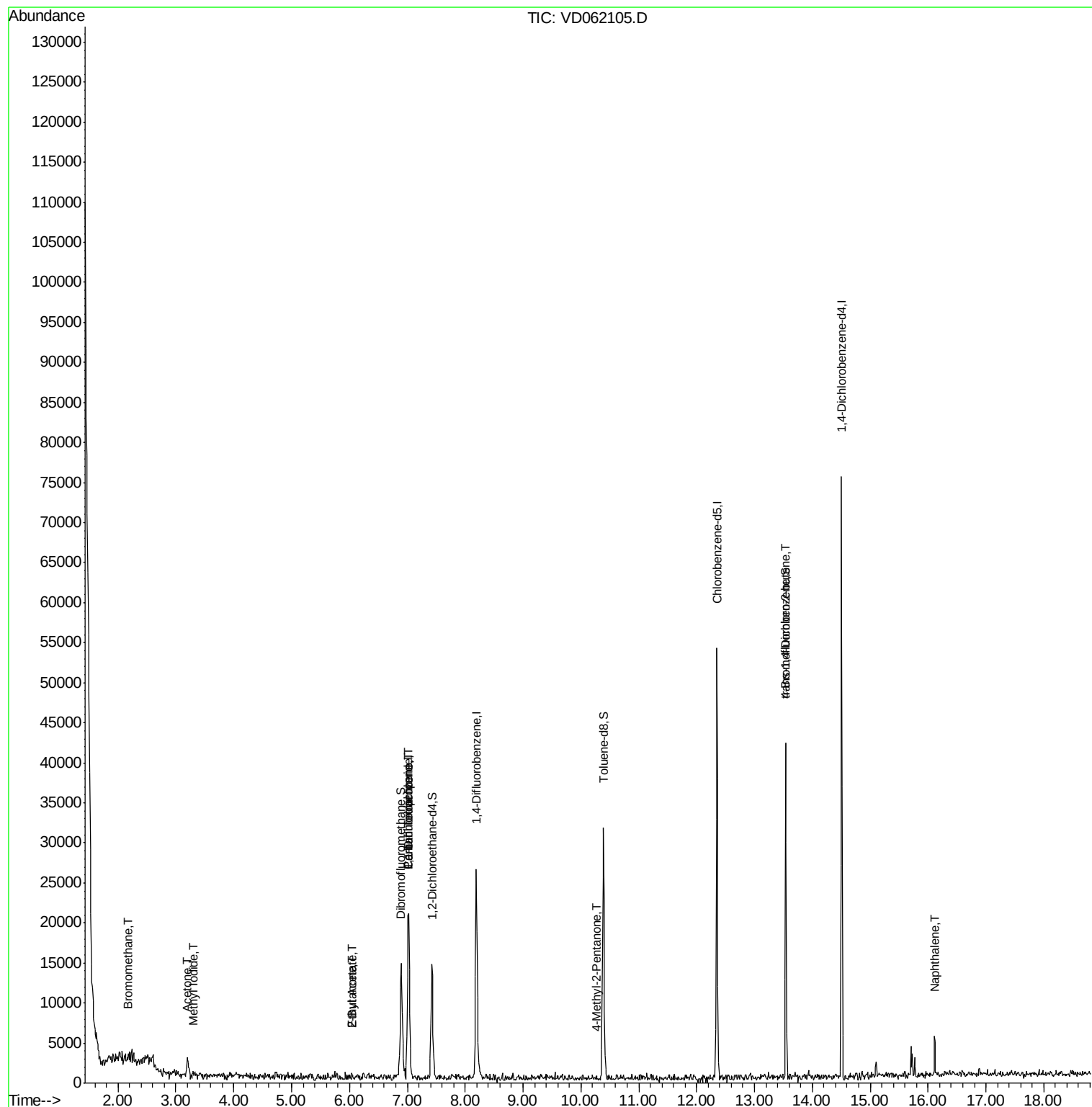
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 2.18  | 94   | 964      | 19.893 | ug/l # | 12     |
| 10) Methyl Iodide              | 3.30  | 142  | 214      | 5.983  | ug/l # | 37     |
| 16) Acetone                    | 3.19  | 43   | 4230     | 96.100 | ug/l # | 50     |
| 25) 2-Butanone                 | 6.04  | 43   | 209      | 3.916  | ug/l # | 56     |
| 36) 1,1-Dichloropropene        | 7.01  | 75   | 858      | 2.937  | ug/l # | 40     |
| 37) Ethyl Acetate              | 6.04  | 43   | 209      | 1.679  | ug/l # | 64     |
| 38) Carbon Tetrachloride       | 7.02  | 117  | 1679     | 4.535  | ug/l # | 12     |
| 51) 4-Methyl-2-Pentanone       | 10.27 | 43   | 192      | 1.726  | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 13.54 | 75   | 5214     | 81.353 | ug/l # | 16     |
| 95) Naphthalene                | 16.11 | 128  | 3955     | 9.861  | ug/l   | 96     |

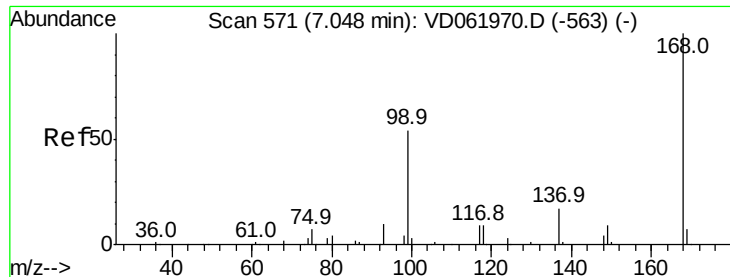
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD050119\  
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Sample : K2654-01RE  
Misc : 5.04g/5mL/MSVOA D/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
OILY-STONESRE

Quant Time: May 02 00:58:22 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D042319S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 01 08:37:17 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 569

Delta R.T. -0.03 min

Lab File: VD062105.D

Acq: 1 May 2019 16:19

Instrument :

MSVOA\_D

ClientSampleId :

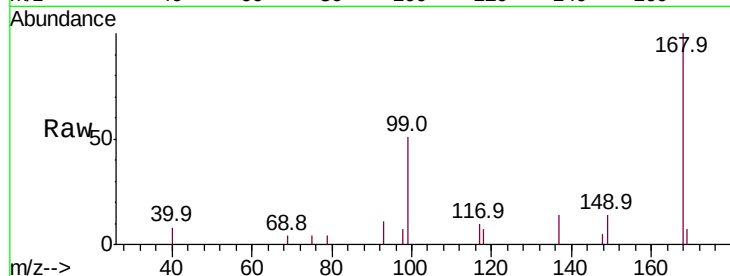
OILY-STONESRE

Tot Ion:168 Resp: 23554

Ion Ratio Lower Upper

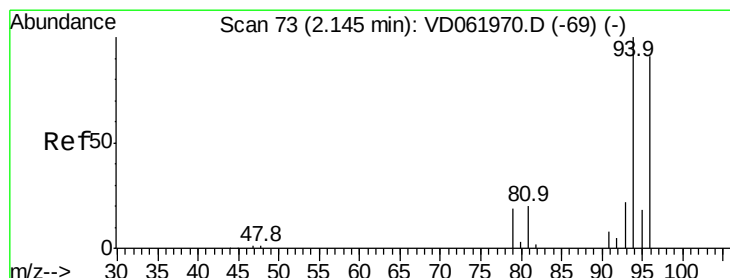
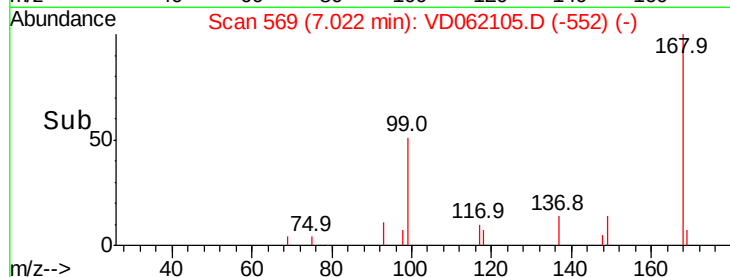
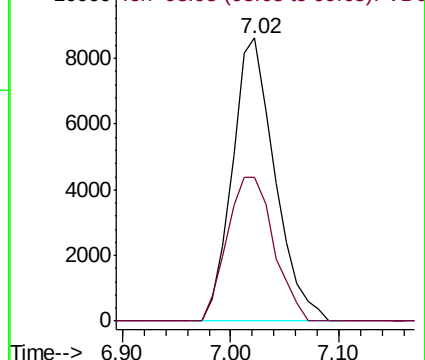
168 100

99 50.6 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 19.893 ug/l

RT: 2.18 min Scan# 77

Delta R.T. 0.02 min

Lab File: VD062105.D

Acq: 1 May 2019 16:19

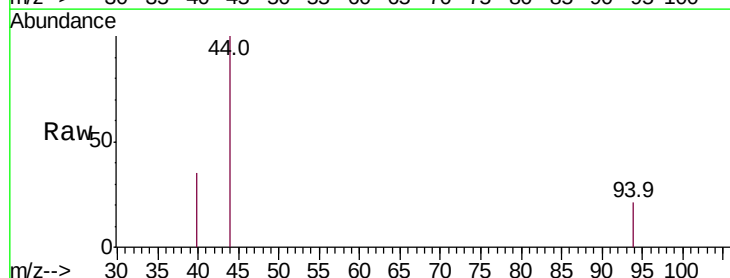
Tgt Ion: 94 Resp: 964

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

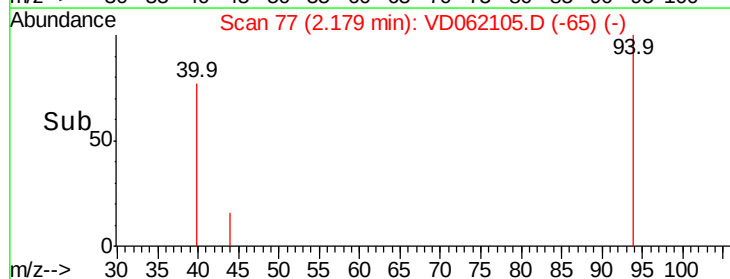
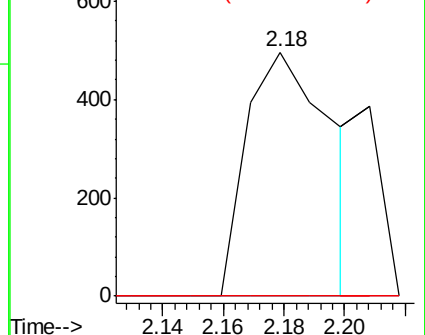
93 0.0 18.5 27.7#

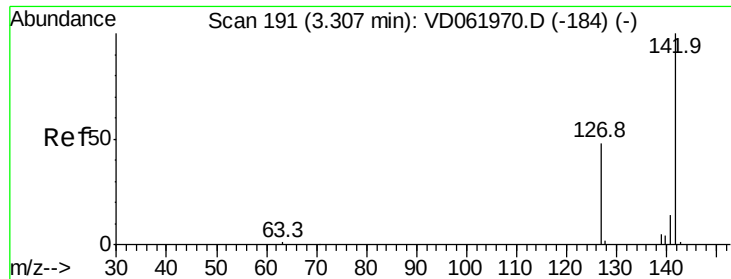


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

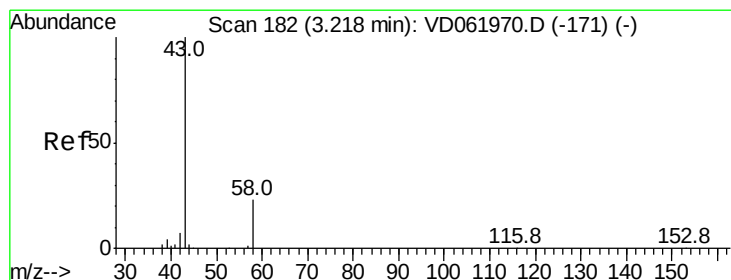
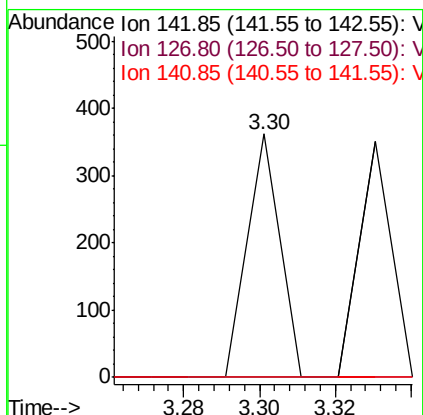
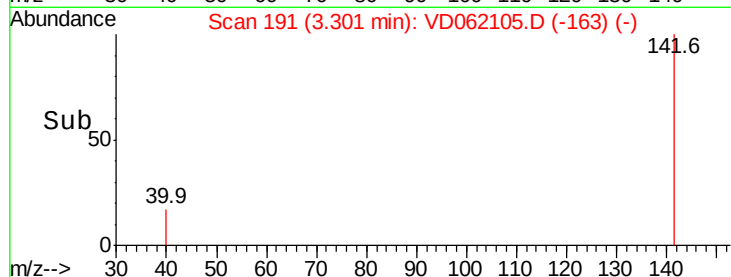
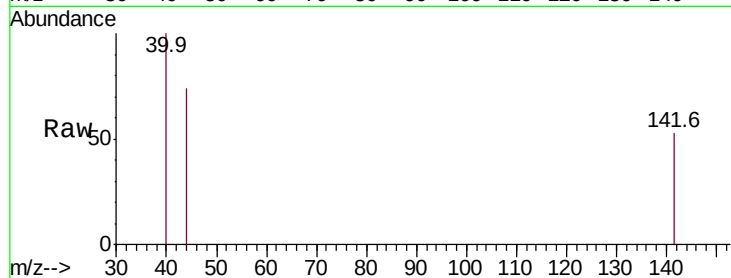




#10  
Methvl Iodide  
Concen: 5.983 ug/l  
RT: 3.30 min Scan# 191  
Delta R.T. -0.02 min  
Lab File: VD062105.D  
Acq: 1 May 2019 16:19

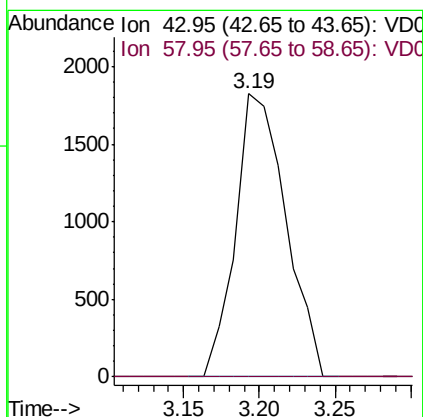
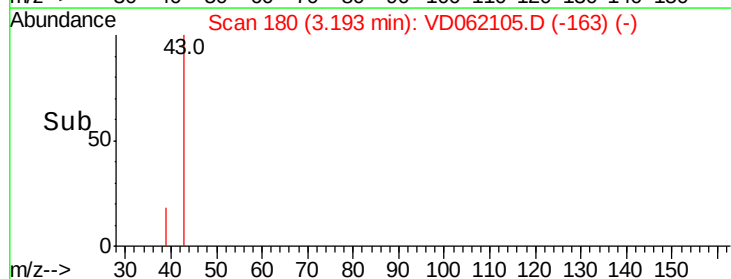
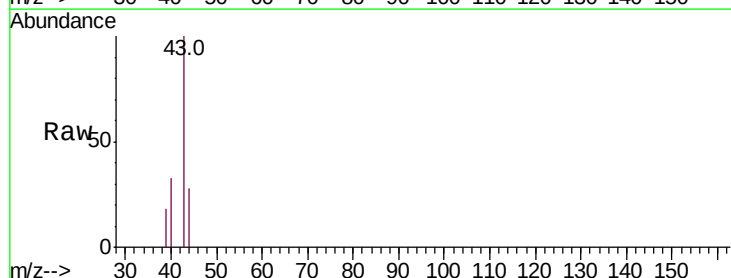
Instrument :  
MSVOA\_D  
ClientSampleId :  
OILY-STONESRE

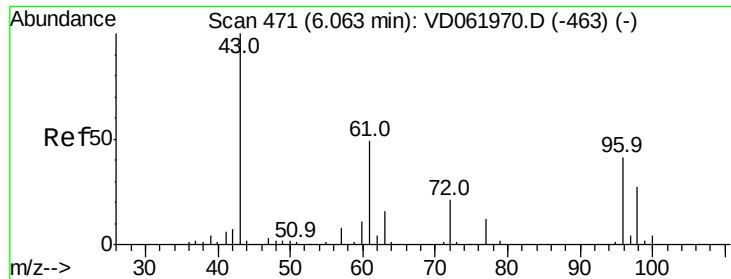
Tot Ion:142 Resp: 214  
Ion Ratio Lower Upper  
142 100  
127 0.0 38.8 58.2#  
141 0.0 11.4 17.0#



#16  
Acetone  
Concen: 96.100 ug/l  
RT: 3.19 min Scan# 180  
Delta R.T. -0.03 min  
Lab File: VD062105.D  
Acq: 1 May 2019 16:19

Tgt Ion: 43 Resp: 4230  
Ion Ratio Lower Upper  
43 100  
58 0.0 19.9 29.9#





#25

2-Butanone

Concen: 3.916 ug/l

RT: 6.04 min Scan# 469

Delta R.T. -0.04 min

Lab File: VD062105.D

Acq: 1 May 2019 16:19

Instrument :

MSVOA\_D

ClientSampleId :

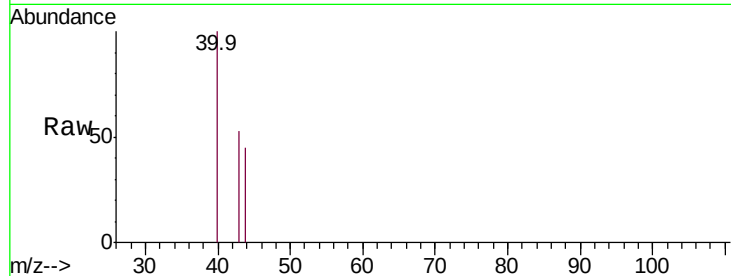
OILY-STONESRE

Tot Ion: 43 Resp: 209

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.04

400

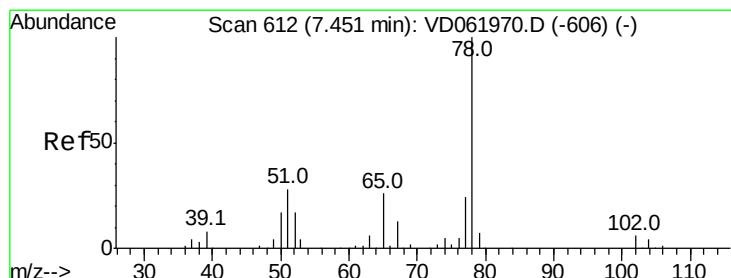
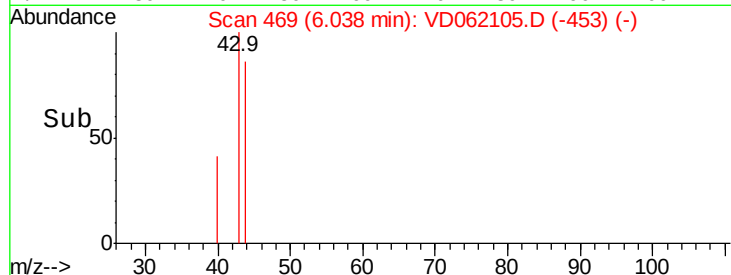
300

200

100

0

Time--> 6.00 6.02 6.04 6.06



#33

1,2-Dichloroethane-d4

Concen: 80.815 ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.03 min

Lab File: VD062105.D

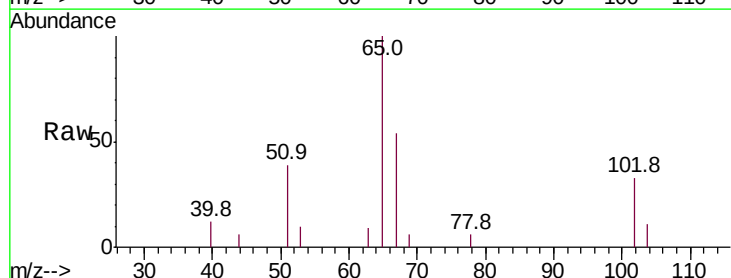
Acq: 1 May 2019 16:19

Tgt Ion: 65 Resp: 14898

Ion Ratio Lower Upper

65 100

67 54.5 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.43

6000

5000

4000

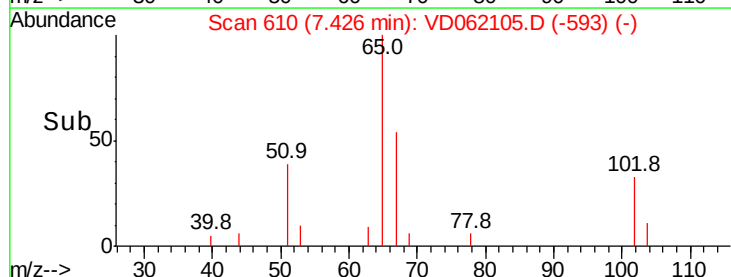
3000

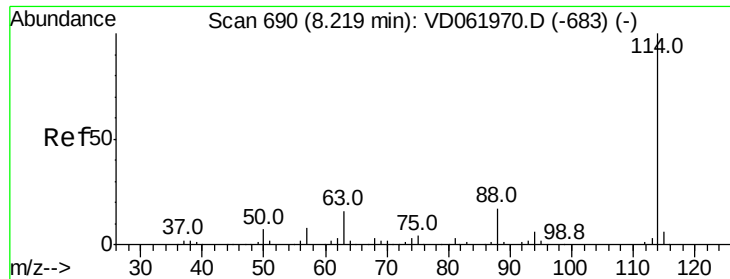
2000

1000

0

Time--> 7.30 7.40 7.50





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.19 min Scan# 688

Delta R.T. -0.03 min

Lab File: VD062105.D

Acq: 1 May 2019 16:19

Instrument :

MSVOA\_D

ClientSampleId :

OILY-STONESRE

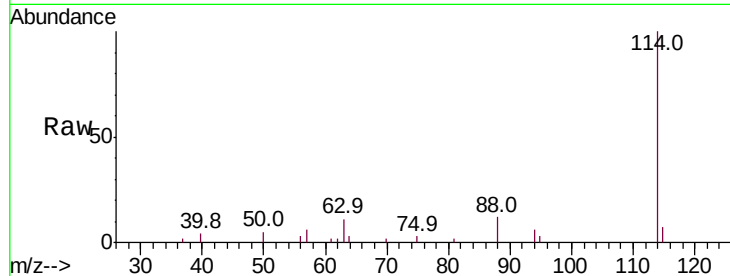
Tot Ion:114 Resp: 37501

Ion Ratio Lower Upper

114 100

63 11.2 0.0 32.4

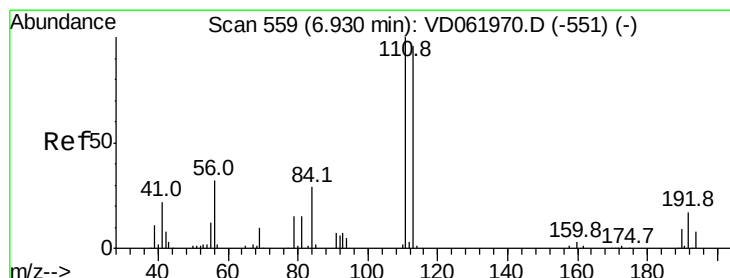
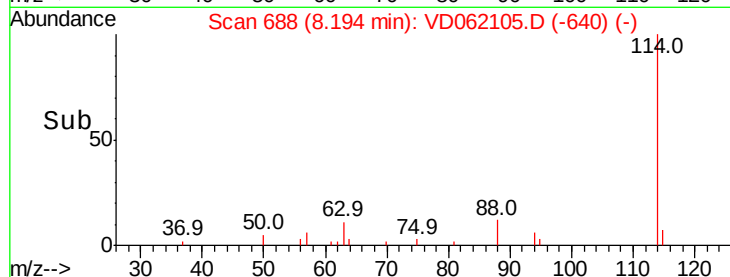
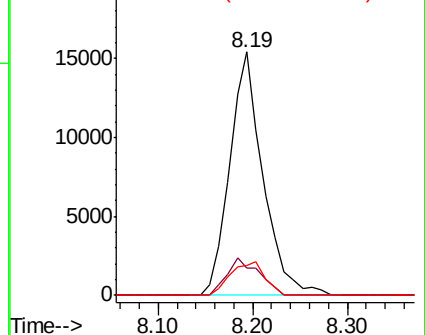
88 12.5 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 54.832 ug/l

RT: 6.89 min Scan# 556

Delta R.T. -0.04 min

Lab File: VD062105.D

Acq: 1 May 2019 16:19

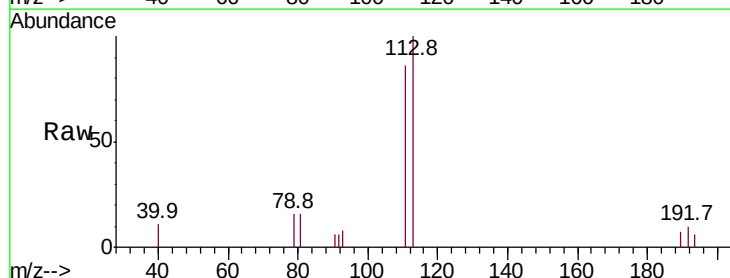
Tgt Ion:113 Resp: 14221

Ion Ratio Lower Upper

113 100

111 86.2 78.5 117.7

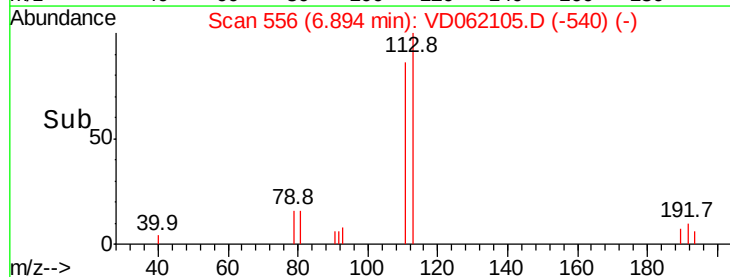
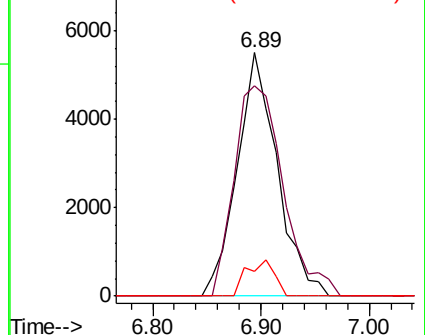
192 10.1 13.0 19.4#

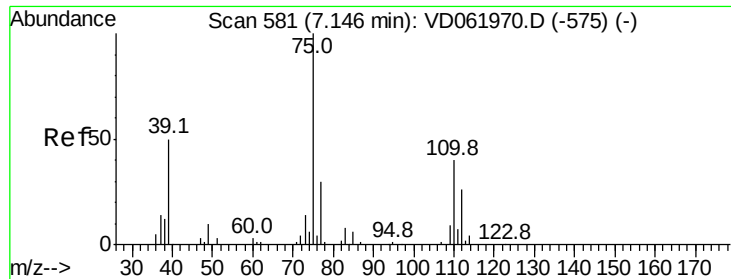


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

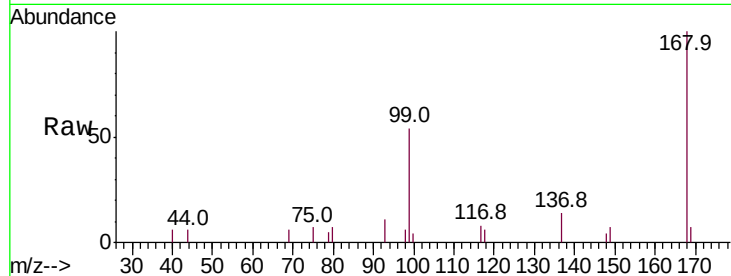




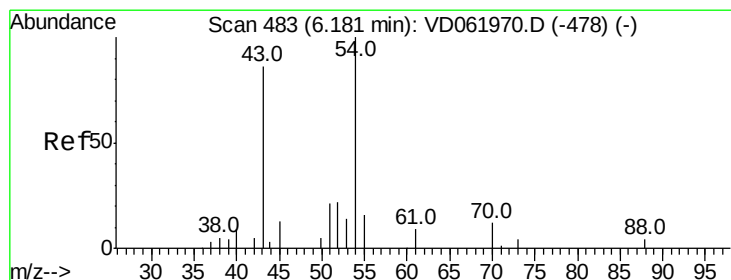
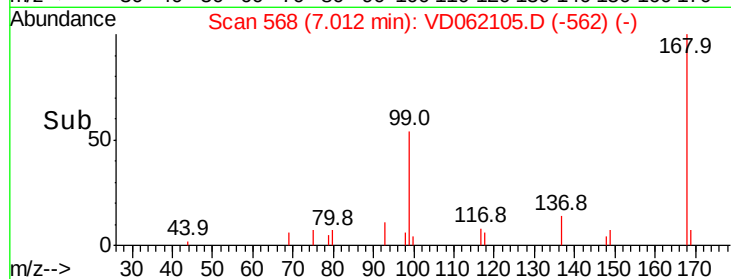
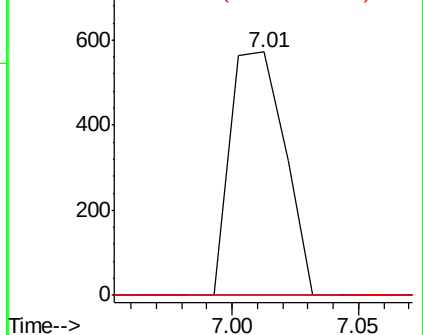
#36  
 1,1-Dichloropropene  
 Concen: 2.937 ug/l  
 RT: 7.01 min Scan# 568  
 Delta R.T. -0.14 min  
 Lab File: VD062105.D  
 Acq: 1 May 2019 16:19

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OILY-STONESRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 0.0   | 19.1  | 57.1# |
| 77      | 0.0   | 25.6  | 38.4# |

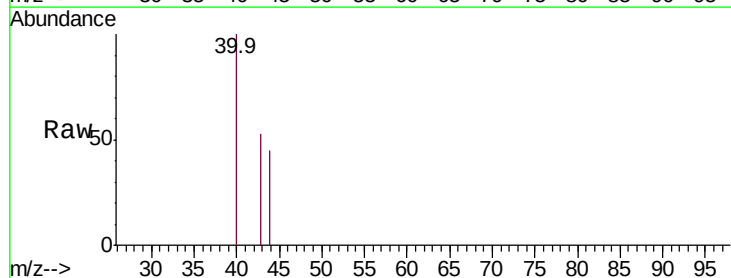


Abundance Ion 75.00 (74.70 to 75.70): VDC  
 Ion 109.90 (109.60 to 110.60): VDC  
 Ion 76.95 (76.65 to 77.65): VDC

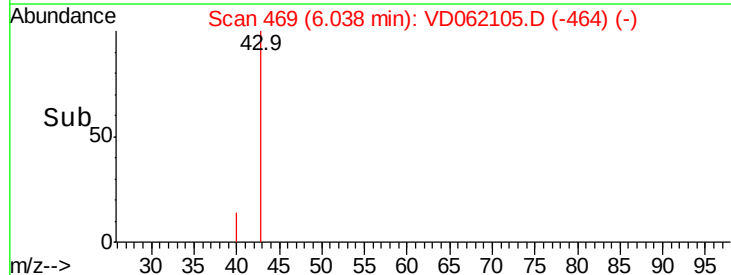
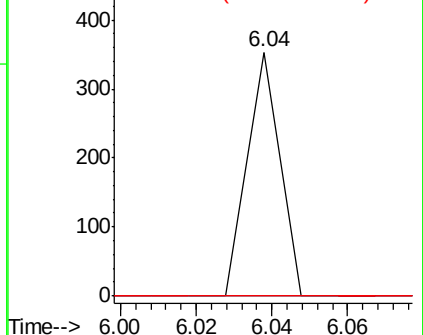


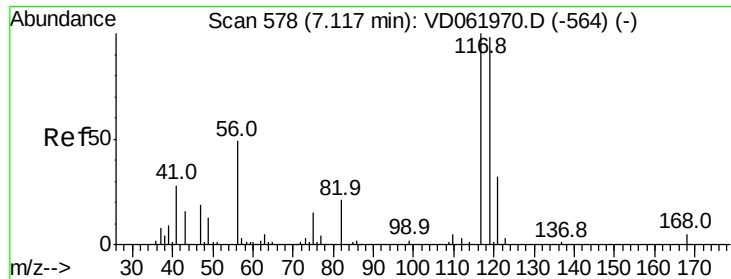
#37  
 Ethyl Acetate  
 Concen: 1.679 ug/l  
 RT: 6.04 min Scan# 469  
 Delta R.T. -0.15 min  
 Lab File: VD062105.D  
 Acq: 1 May 2019 16:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 0.0   | 14.7  | 22.1# |
| 70      | 0.0   | 7.8   | 11.6# |



Abundance Ion 42.95 (42.65 to 43.65): VDC  
 Ion 60.95 (60.65 to 61.65): VDC  
 Ion 70.00 (69.70 to 70.70): VDC

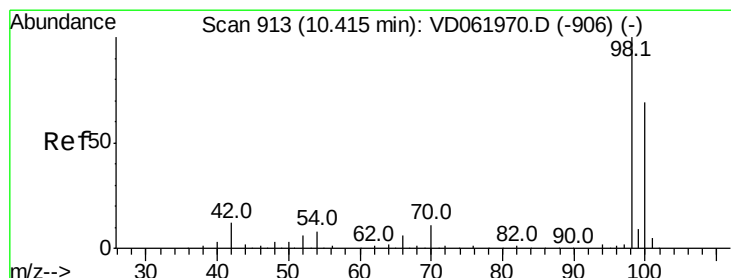
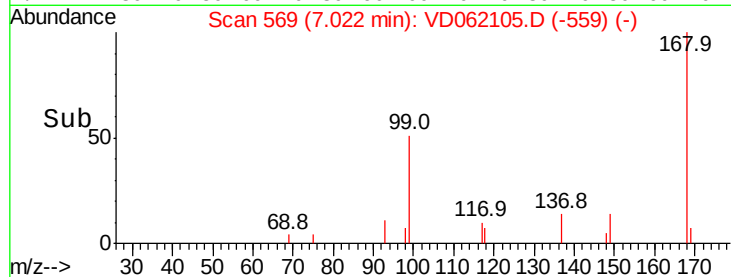
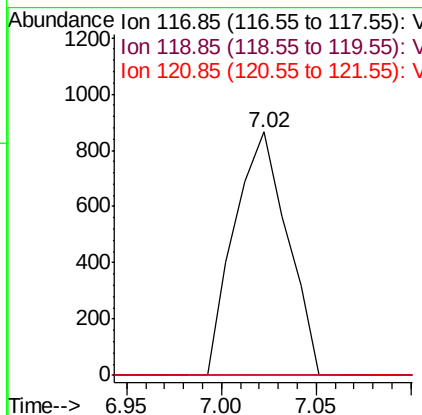
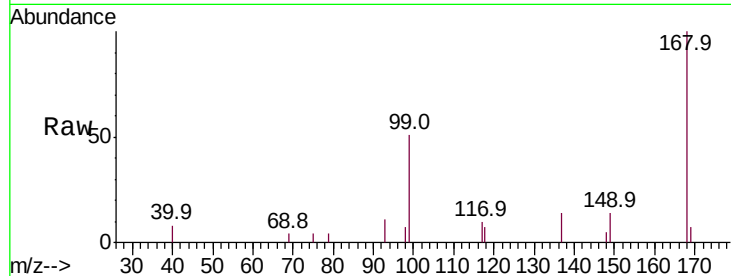




#38  
 Carbon Tetrachloride  
 Concen: 4.535 ug/l  
 RT: 7.02 min Scan# 569  
 Delta R.T. -0.10 min  
 Lab File: VD062105.D  
 Acq: 1 May 2019 16:19

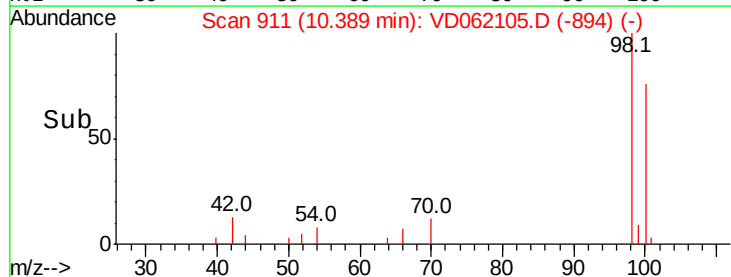
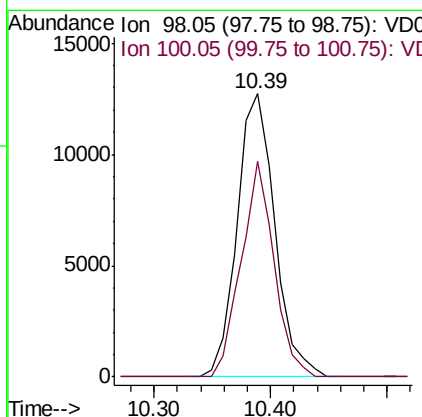
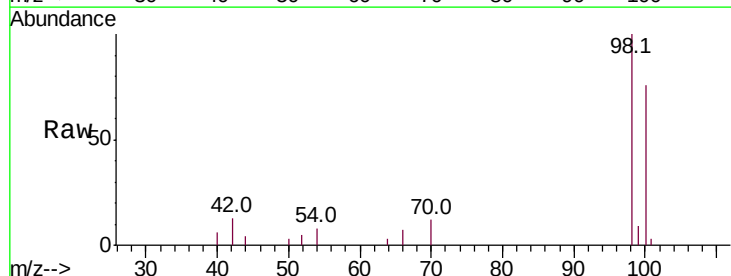
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OILY-STONESRE

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 0.0   | 75.8  | 113.8# |
| 121     | 0.0   | 25.9  | 38.9#  |

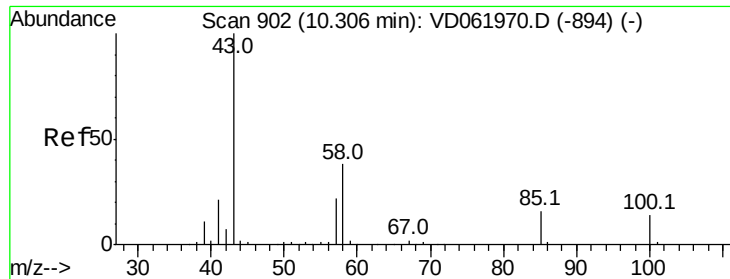


#50  
 Toluene-d8  
 Concen: 46.196 ug/l  
 RT: 10.39 min Scan# 911  
 Delta R.T. -0.03 min  
 Lab File: VD062105.D  
 Acq: 1 May 2019 16:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 76.3  | 53.8  | 80.8  |







#51

4-Methyl-2-Pentanone

Concen: 1.726 ug/l

RT: 10.27 min Scan# 899

Delta R.T. -0.03 min

Lab File: VD062105.D

Acq: 1 May 2019 16:19

Instrument :

MSVOA\_D

ClientSampleId :

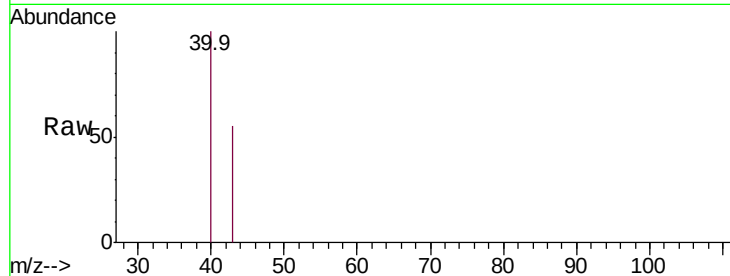
OILY-STONESRE

Tot Ion: 43 Resp: 192

Ion Ratio Lower Upper

43 100

58 0.0 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.27

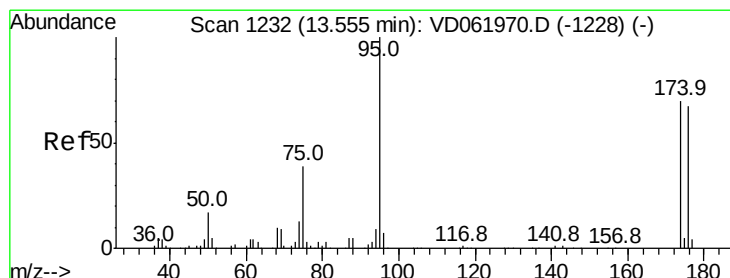
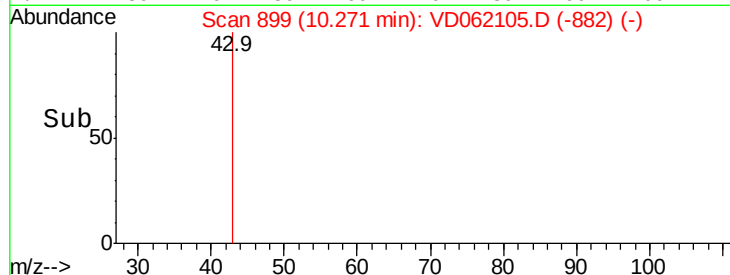
300

200

100

0

Time-->



#62

4-Bromofluorobenzene

Concen: 52.854 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VD062105.D

Acq: 1 May 2019 16:19

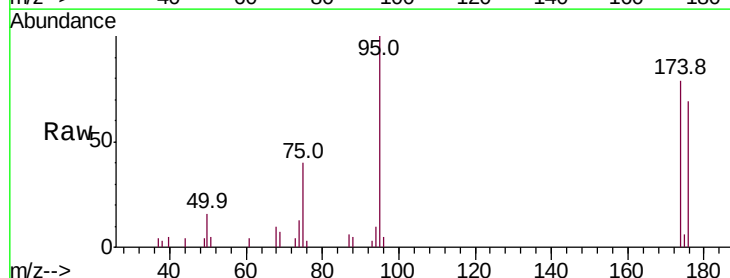
Tgt Ion: 95 Resp: 13083

Ion Ratio Lower Upper

95 100

174 79.4 0.0 181.8

176 69.2 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

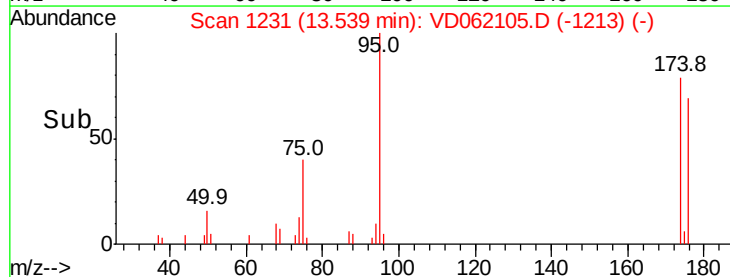
13.54

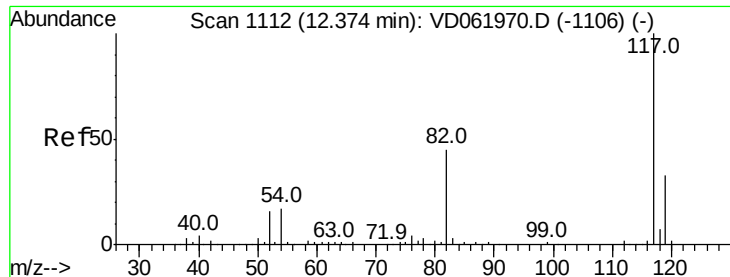
10000

5000

0

Time-->

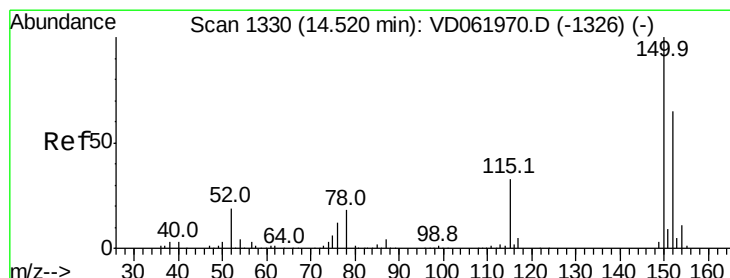
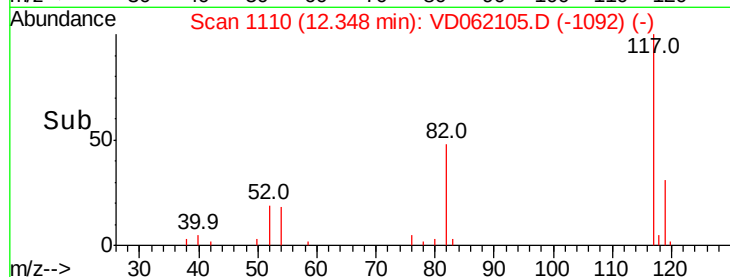
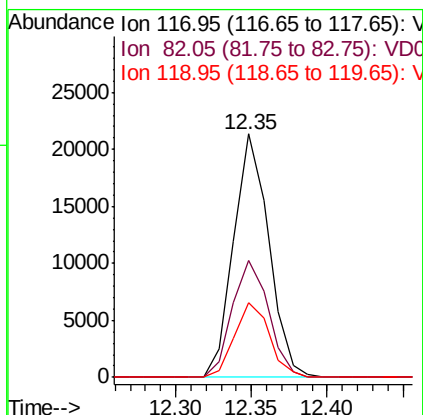
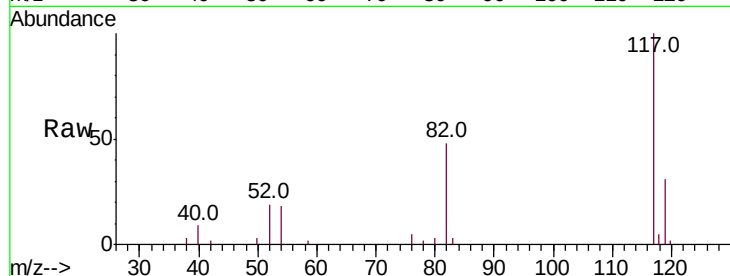




#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 12.35 min Scan# 1110  
 Delta R.T. -0.02 min  
 Lab File: VD062105.D  
 Acq: 1 May 2019 16:19

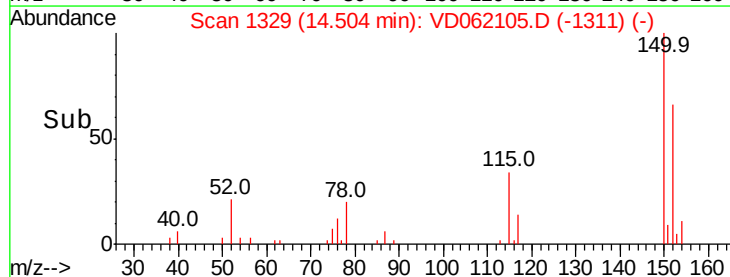
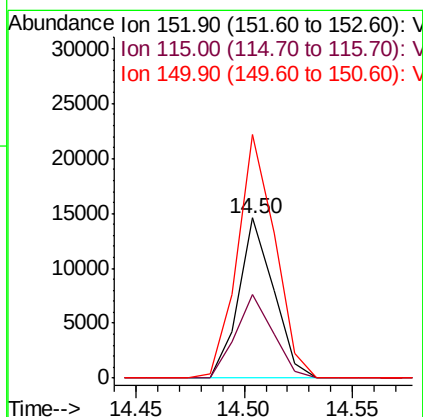
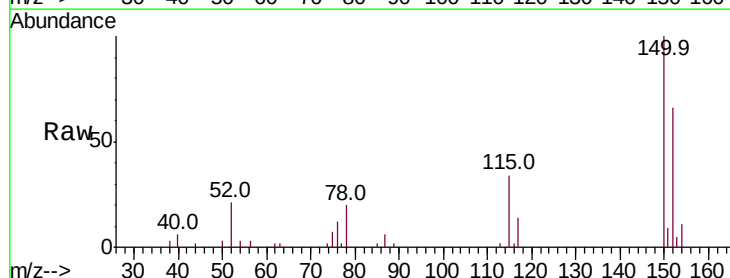
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OILY-STONESRE

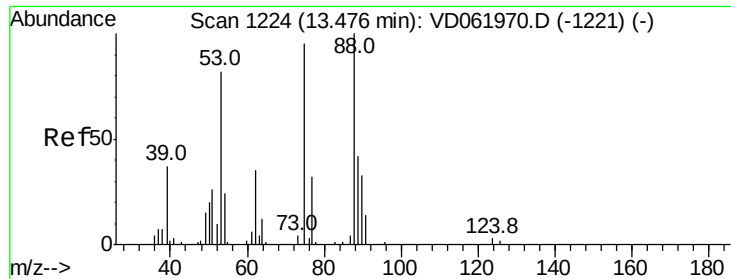
Tot Ion:117 Resp: 34633  
 Ion Ratio Lower Upper  
 117 100  
 82 48.2 36.2 54.2  
 119 30.6 26.2 39.4



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 14.50 min Scan# 1329  
 Delta R.T. -0.02 min  
 Lab File: VD062105.D  
 Acq: 1 May 2019 16:19

Tgt Ion:152 Resp: 16655  
 Ion Ratio Lower Upper  
 152 100  
 115 52.0 30.9 92.7  
 150 151.9 0.0 314.8

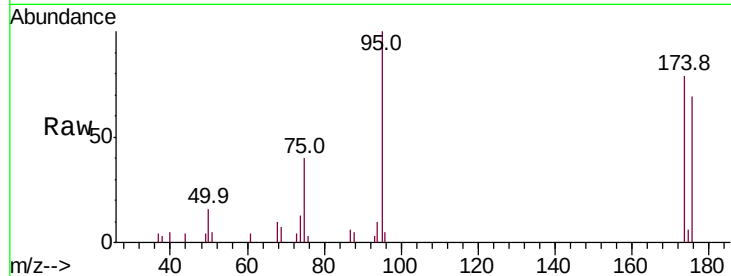




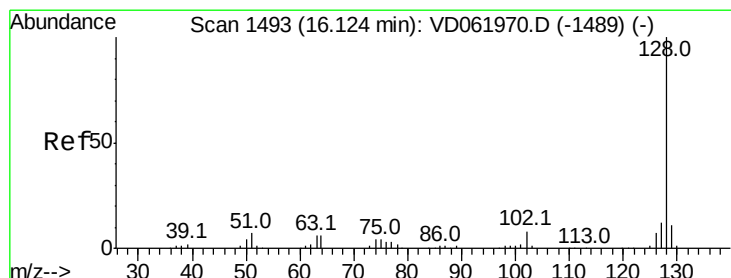
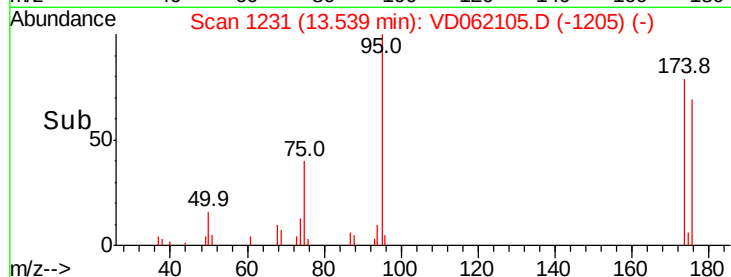
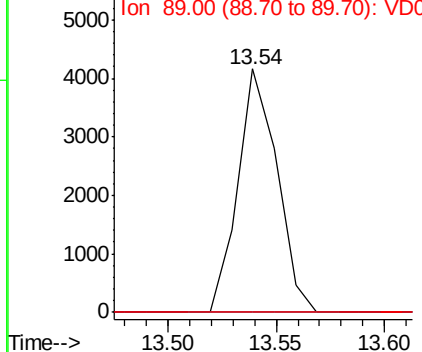
#81  
trans-1,4-Dichloro-2-butene  
Concen: 81.353 ug/l  
RT: 13.54 min Scan# 1231  
Delta R.T. 0.06 min  
Lab File: VD062105.D  
Acq: 1 May 2019 16:19

Instrument :  
MSVOA\_D  
ClientSampleId :  
OILY-STONESRE

Tot Ion: 75 Resp: 5214  
Ion Ratio Lower Upper  
75 100  
53 0.0 65.8 98.8#  
89 0.0 35.0 52.6#

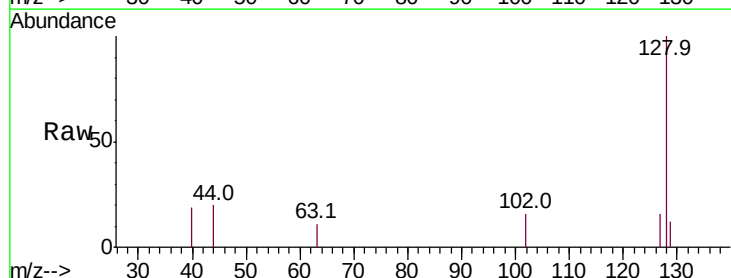


Abundance Ion 75.00 (74.70 to 75.70): VDC  
Ion 53.00 (52.70 to 53.70): VDC  
Ion 89.00 (88.70 to 89.70): VDC



#95  
Naphthalene  
Concen: 9.861 ug/l  
RT: 16.11 min Scan# 1492  
Delta R.T. -0.02 min  
Lab File: VD062105.D  
Acq: 1 May 2019 16:19

Tgt Ion:128 Resp: 3955  
Ion Ratio Lower Upper  
128 100  
127 14.8 9.8 14.8  
129 10.5 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

