

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061419\  
 Data File : VD062708.D  
 Acq On : 14 Jun 2019 13:56  
 Operator : VA/AP  
 Sample : K3366-03  
 Misc : 4.99g/5ml/MSVOA D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CONCRETE

Quant Time: Jun 15 04:36:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 08 00:02:21 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.06  | 168  | 920060   | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 8.23  | 114  | 1288157  | 50.00 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 1020282  | 50.00 | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 542038   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.46  | 65   | 350235   | 26.38 | ug/l   | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 52.76% |          |
| 35) Dibromofluoromethane    | 6.93  | 113  | 41254    | 3.04  | ug/l   | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 6.08%  |          |
| 50) Toluene-d8              | 10.41 | 98   | 783768   | 27.42 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 54.84% |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 392149   | 29.41 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 58.82% |          |

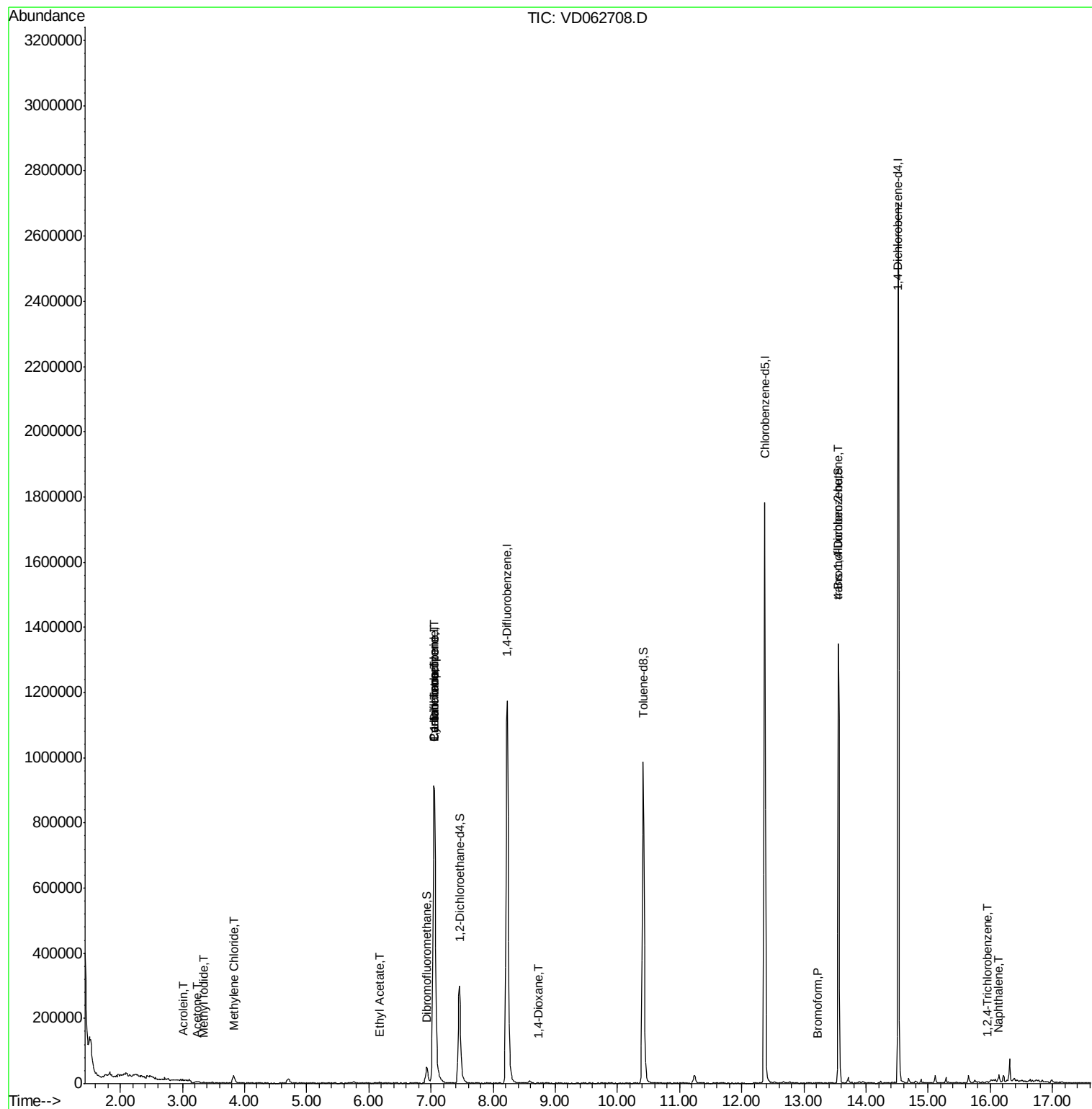
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.58  | 85   | 1676     | Below Cal | #      | 67     |
| 10) Methyl Iodide              | 3.33  | 142  | 1225     | 4.077     | ug/l # | 24     |
| 13) Acrolein                   | 3.02  | 56   | 201      | 1.145     | ug/l # | 12     |
| 16) Acetone                    | 3.25  | 43   | 8889     | 3.656     | ug/l # | 87     |
| 20) Methylene Chloride         | 3.83  | 84   | 14303    | 1.125     | ug/l # | 76     |
| 31) Cyclohexane                | 7.05  | 56   | 21563    | 2.058     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.06  | 75   | 75287    | 5.107     | ug/l # | 52     |
| 37) Ethyl Acetate              | 6.16  | 43   | 268      | 1.243     | ug/l # | 74     |
| 38) Carbon Tetrachloride       | 7.06  | 117  | 93300    | 4.004     | ug/l # | 16     |
| 49) 1,4-Dioxane                | 8.73  | 88   | 178      | 50.638    | ug/l # | 21     |
| 71) Bromoform                  | 13.23 | 173  | 219      | 2.856     | ug/l # | 38     |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 185510   | 82.379    | ug/l # | 1      |
| 93) 1,2,4-Trichlorobenzene     | 15.95 | 180  | 897      | 3.628     | ug/l # | 65     |
| 95) Naphthalene                | 16.12 | 128  | 4306     | 3.653     | ug/l # | 87     |

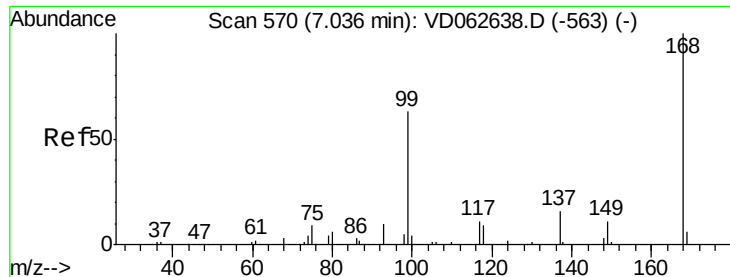
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD061419\  
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Instrument :  
MSVOA\_D  
ClientSampleId :  
CONCRETE

Quant Time: Jun 15 04:36:57 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D060719S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 08 00:02:21 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD062708.D

Acq: 14 Jun 2019 13:56

Instrument :

MSVOA\_D

ClientSampleId :

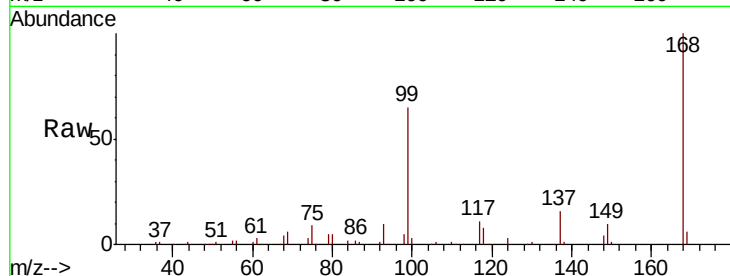
CONCRETE

Tot Ion:168 Resp: 920060

Ion Ratio Lower Upper

168 100

99 65.0 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

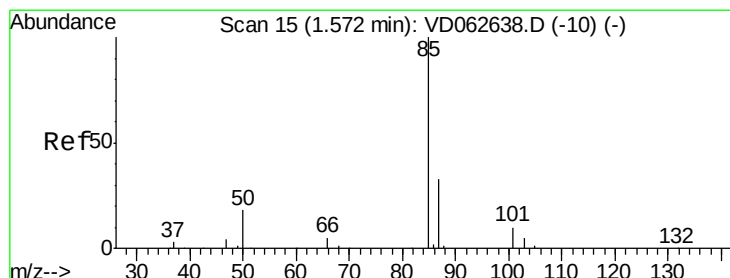
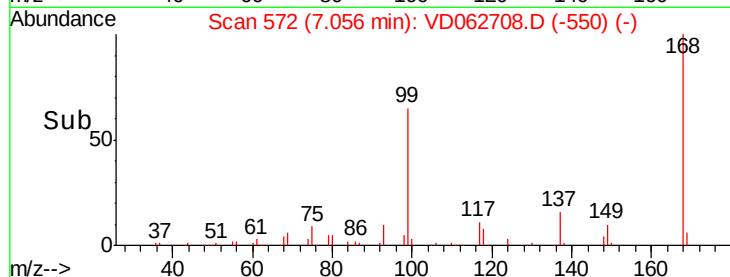
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.58 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD062708.D

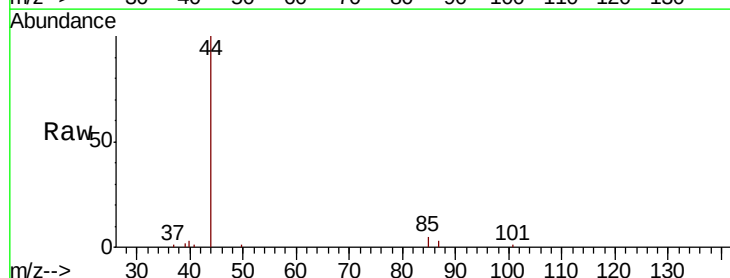
Acq: 14 Jun 2019 13:56

Tgt Ion: 85 Resp: 1676

Ion Ratio Lower Upper

85 100

87 51.5 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

2000

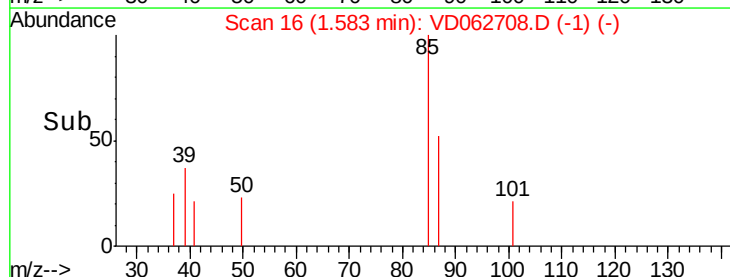
1500

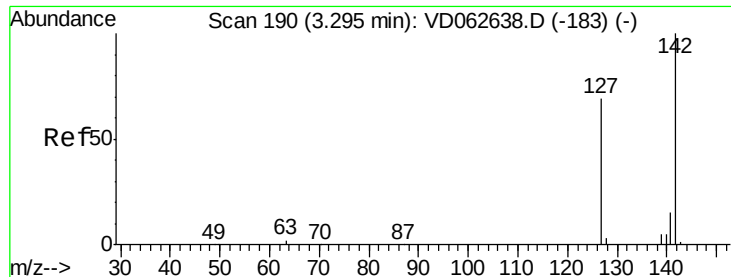
1000

500

0

Time-->

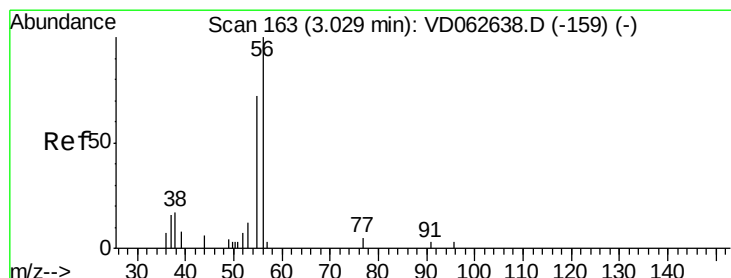
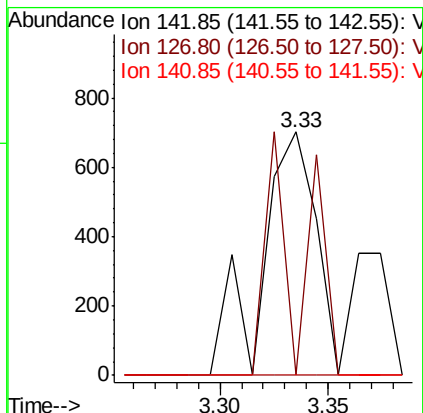
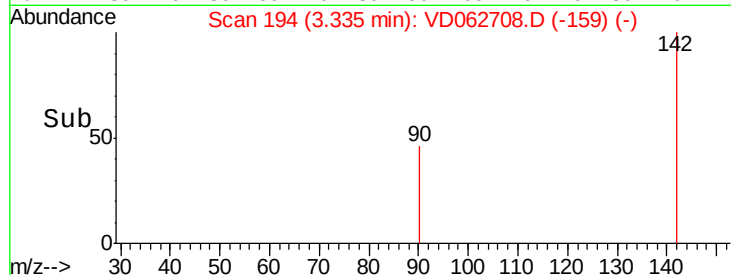
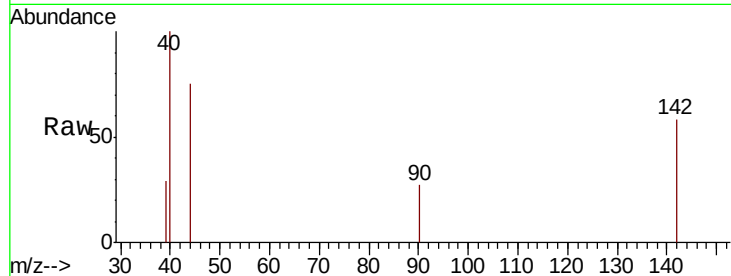




#10  
Methvl Iodide  
Concen: 4.077 ug/l  
RT: 3.33 min Scan# 194  
Delta R.T. 0.04 min  
Lab File: VD062708.D  
Acq: 14 Jun 2019 13:56

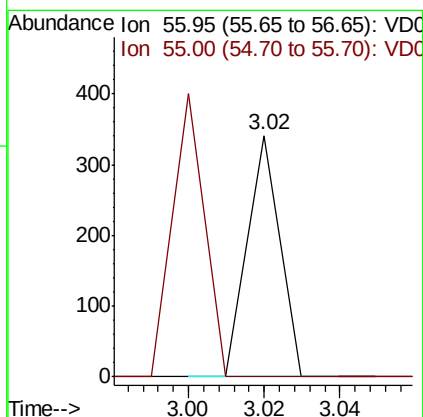
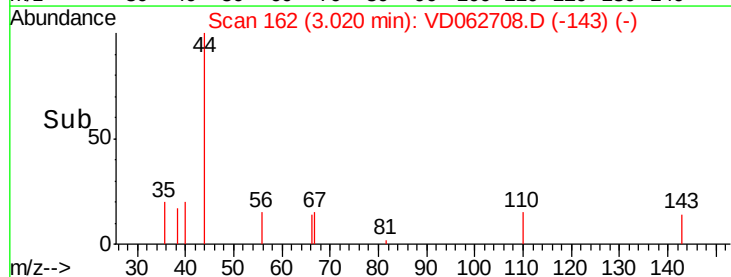
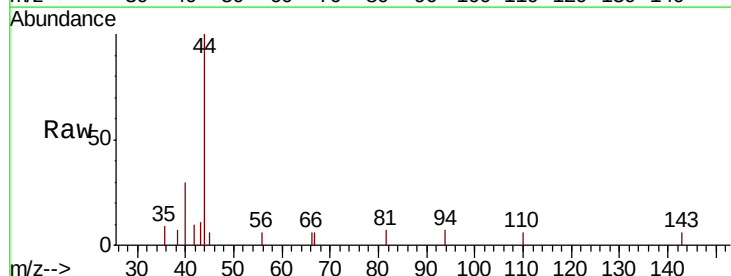
Instrument :  
MSVOA\_D  
ClientSampleId :  
CONCRETE

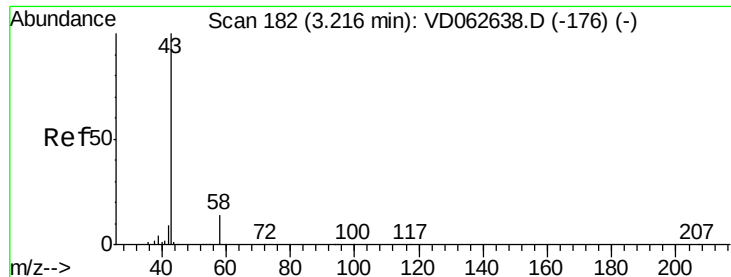
Tot Ion:142 Resp: 1225  
Ion Ratio Lower Upper  
142 100  
127 0.0 55.2 82.8#  
141 0.0 12.1 18.1#



#13  
Acrolein  
Concen: 1.145 ug/l  
RT: 3.02 min Scan# 162  
Delta R.T. -0.01 min  
Lab File: VD062708.D  
Acq: 14 Jun 2019 13:56

Tgt Ion: 56 Resp: 201  
Ion Ratio Lower Upper  
56 100  
55 0.0 59.4 89.0#





#16

Acetone

Concen: 3.656 ug/l

RT: 3.25 min Scan# 185

Delta R.T. 0.03 min

Lab File: VD062708.D

Acq: 14 Jun 2019 13:56

Instrument :

MSVOA\_D

ClientSampleId :

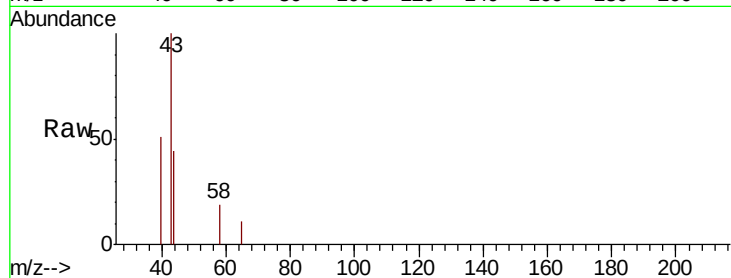
CONCRETE

Tot Ion: 43 Resp: 8889

Ion Ratio Lower Upper

43 100

58 18.8 10.8 16.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.25

3000

2500

2000

1500

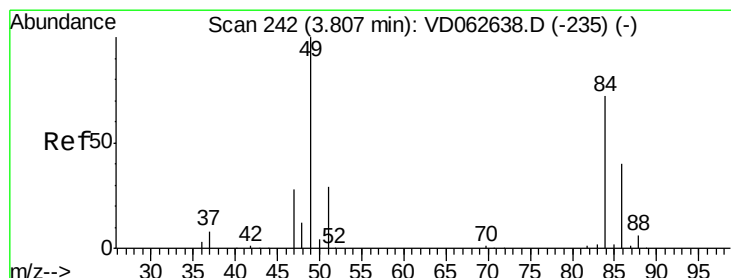
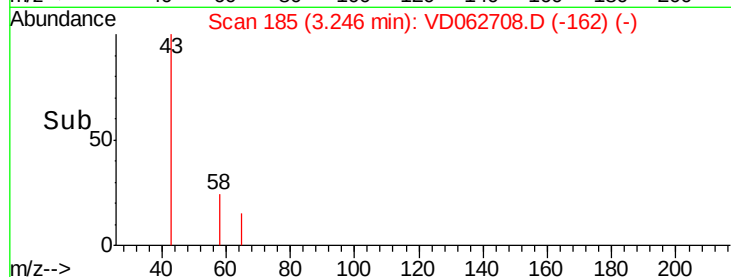
1000

500

0

3.15 3.20 3.25 3.30

Time-->



#20

Methylene Chloride

Concen: 1.125 ug/l

RT: 3.83 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD062708.D

Acq: 14 Jun 2019 13:56

Tgt Ion: 84 Resp: 14303

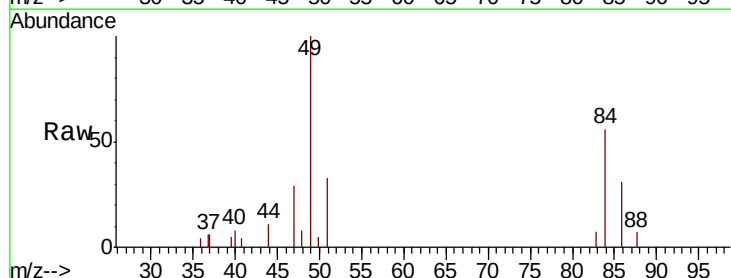
Ion Ratio Lower Upper

84 100

49 177.5 111.2 166.8#

51 58.0 31.9 47.9#

86 55.5 44.7 67.1



Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

12000

10000

8000

6000

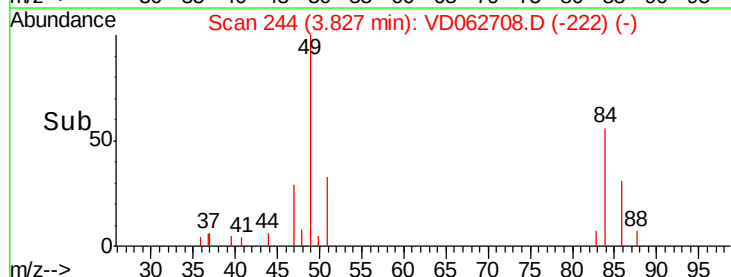
4000

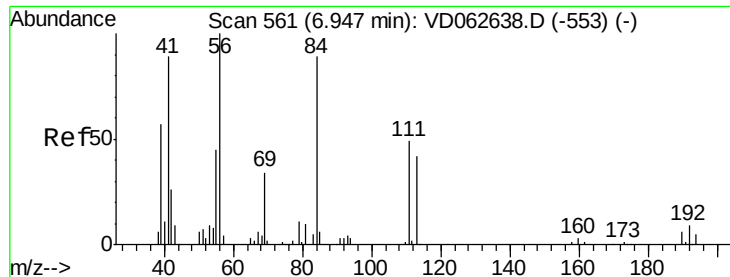
2000

0

3.70 3.80 3.90

Time-->

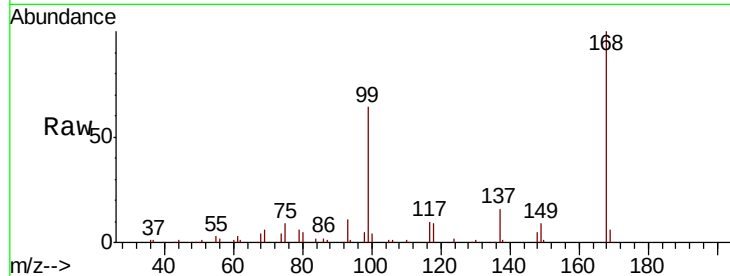




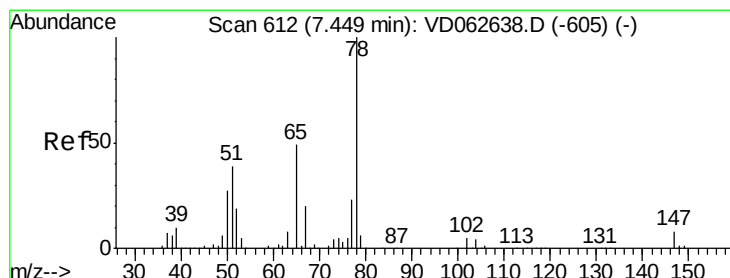
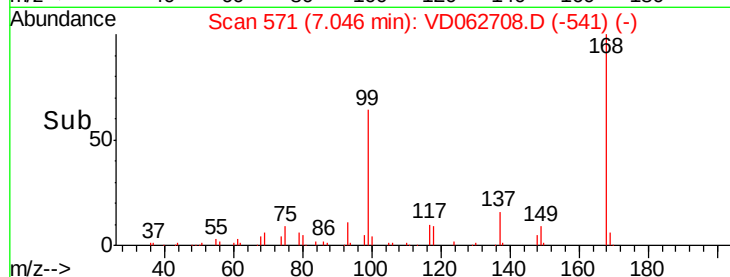
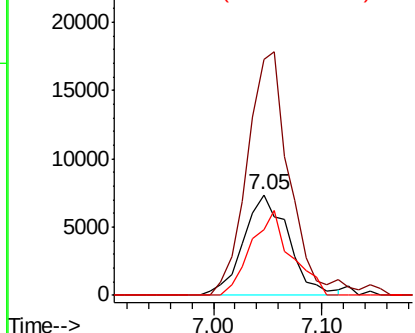
#31  
Cyclohexane  
Concen: 2.058 ug/l  
RT: 7.05 min Scan# 571  
Delta R.T. 0.10 min  
Lab File: VD062708.D  
Acq: 14 Jun 2019 13:56

Instrument :  
MSVOA\_D  
ClientSampleID :  
CONCRETE

Tot Ion: 56 Resp: 21563  
Ion Ratio Lower Upper  
56 100  
69 234.7 26.8 40.2#  
84 65.6 73.9 110.9#

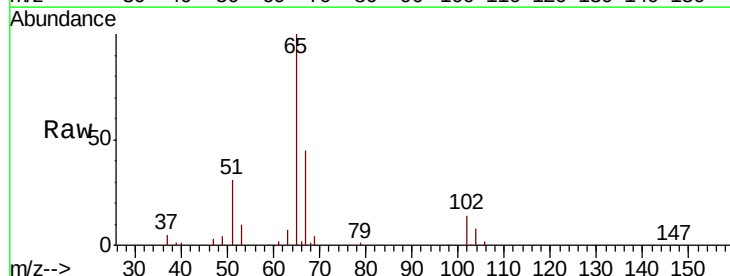


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

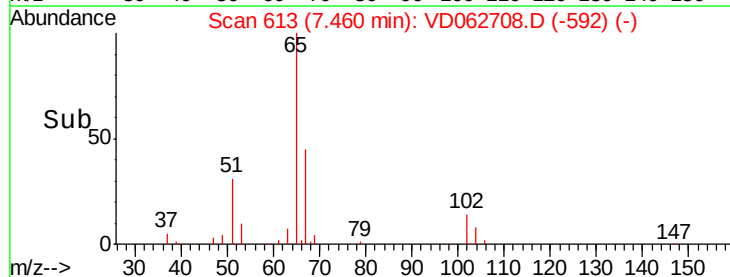
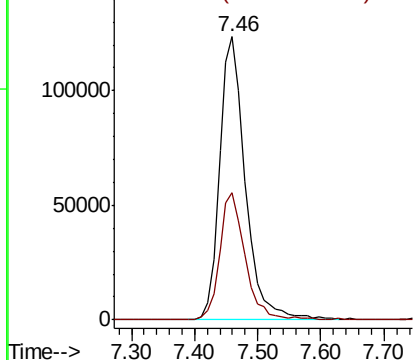


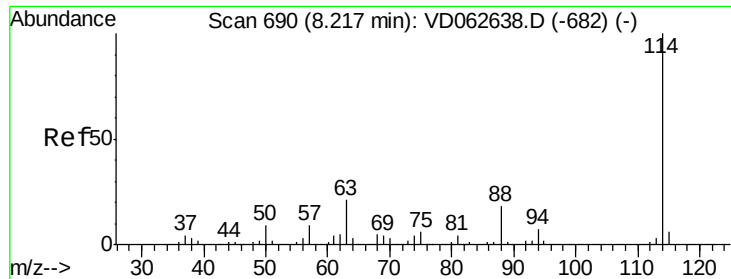
#33  
1,2-Dichloroethane-d4  
Concen: 26.380 ug/l  
RT: 7.46 min Scan# 613  
Delta R.T. 0.01 min  
Lab File: VD062708.D  
Acq: 14 Jun 2019 13:56

Tgt Ion: 65 Resp: 350235  
Ion Ratio Lower Upper  
65 100  
67 45.1 0.0 81.8



Abundance Ion 64.95 (64.65 to 65.65): VDC  
Ion 66.90 (66.60 to 67.60): VDC

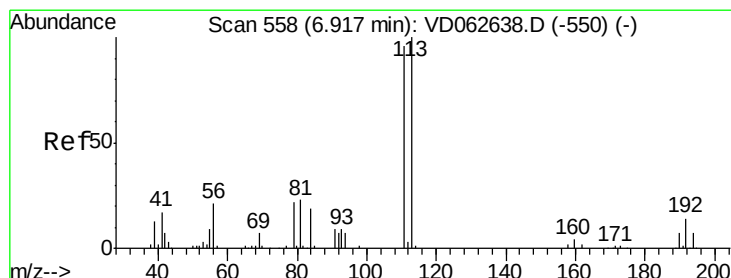
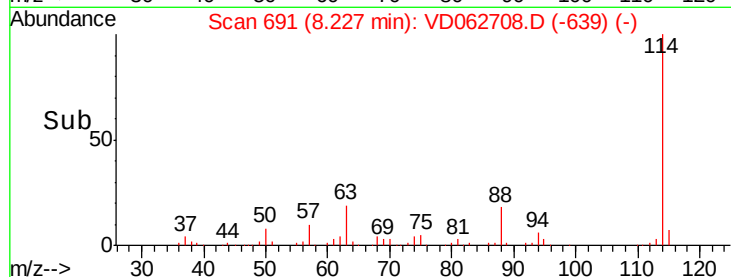
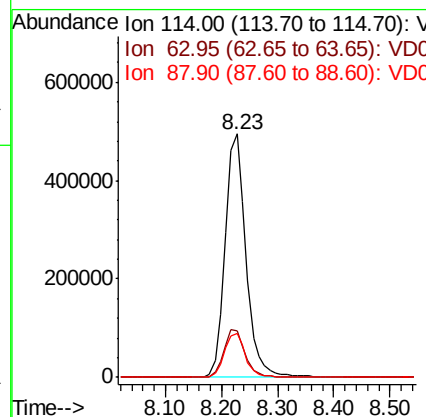
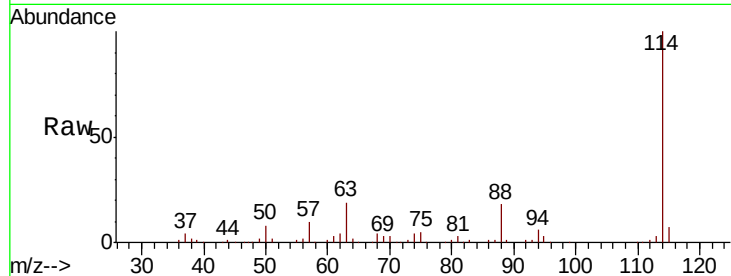




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.23 min Scan# 691  
 Delta R.T. 0.01 min  
 Lab File: VD062708.D  
 Acq: 14 Jun 2019 13:56

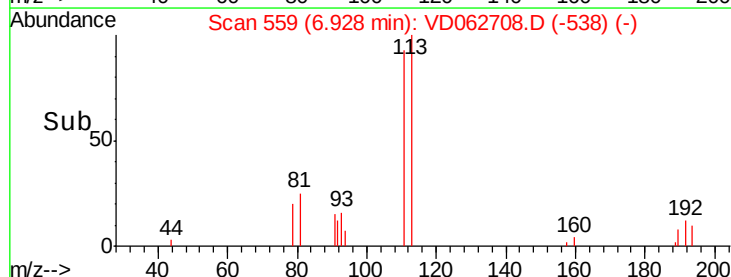
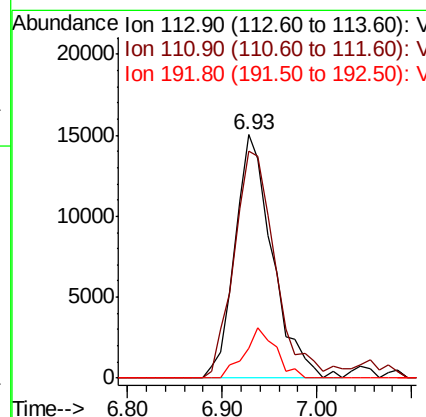
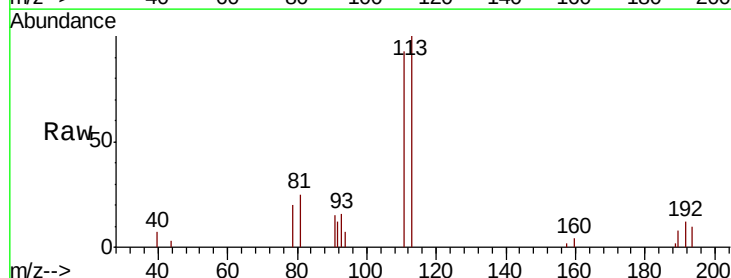
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CONCRETE

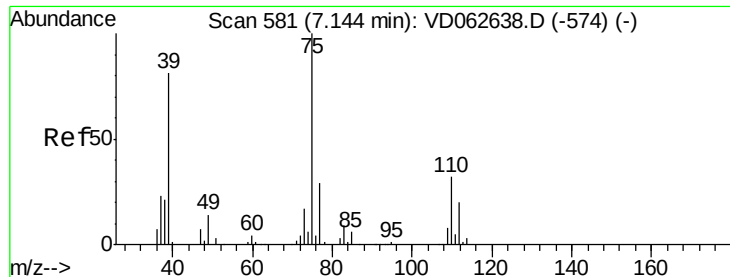
Tot Ion:114 Resp: 1288157  
 Ion Ratio Lower Upper  
 114 100  
 63 19.3 0.0 42.4  
 88 17.9 0.0 36.8



#35  
 Dibromofluoromethane  
 Concen: 3.037 ug/l  
 RT: 6.93 min Scan# 559  
 Delta R.T. 0.01 min  
 Lab File: VD062708.D  
 Acq: 14 Jun 2019 13:56

Tgt Ion:113 Resp: 41254  
 Ion Ratio Lower Upper  
 113 100  
 111 93.1 76.4 114.6  
 192 12.3 11.4 17.0

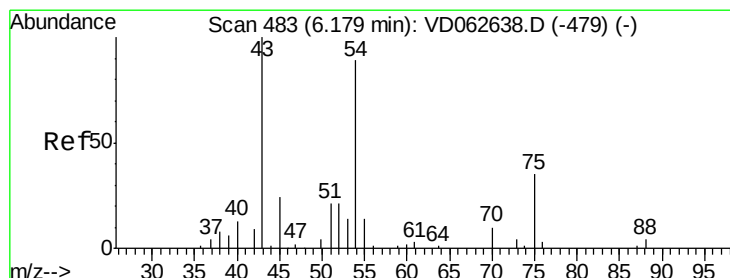
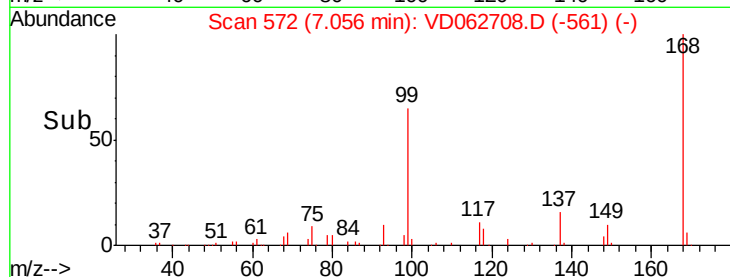
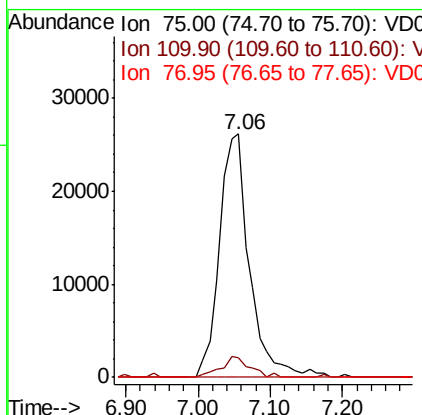
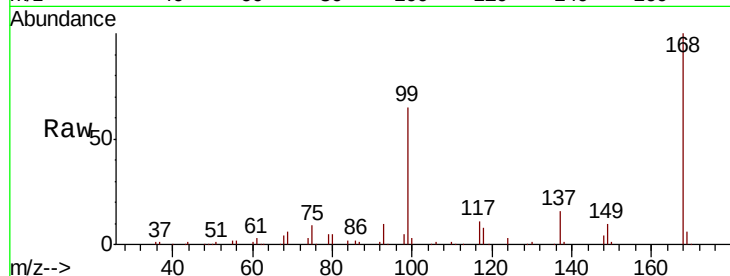




#36  
 1,1-Dichloropropene  
 Concen: 5.107 ug/l  
 RT: 7.06 min Scan# 572  
 Delta R.T. -0.09 min  
 Lab File: VD062708.D  
 Acq: 14 Jun 2019 13:56

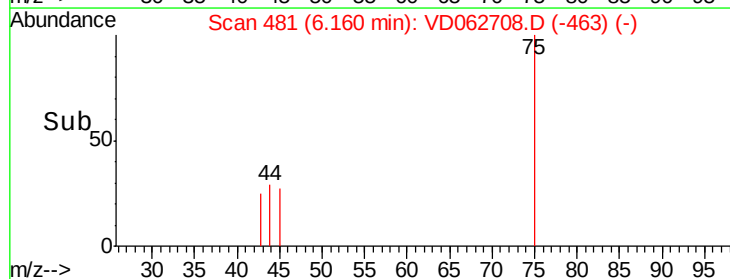
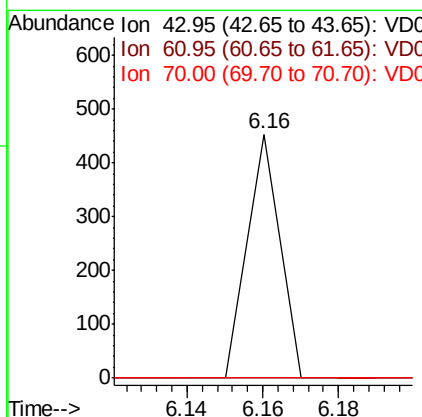
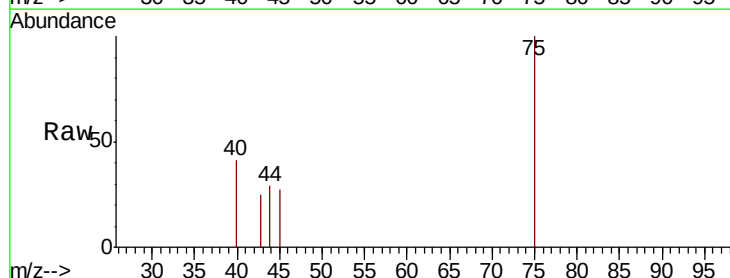
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CONCRETE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 7.9   | 15.9  | 47.7# |
| 77      | 0.0   | 23.3  | 34.9# |

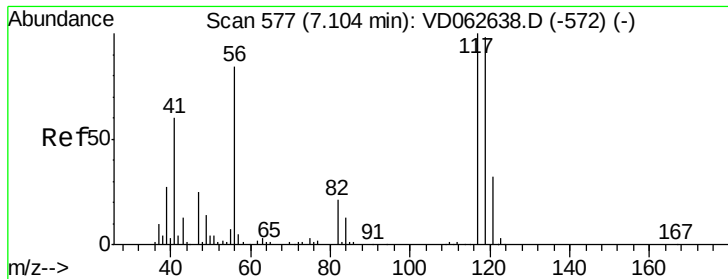


#37  
 Ethyl Acetate  
 Concen: 1.243 ug/l  
 RT: 6.16 min Scan# 481  
 Delta R.T. -0.02 min  
 Lab File: VD062708.D  
 Acq: 14 Jun 2019 13:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 0.0   | 8.7   | 13.1# |
| 70      | 0.0   | 6.5   | 9.7#  |



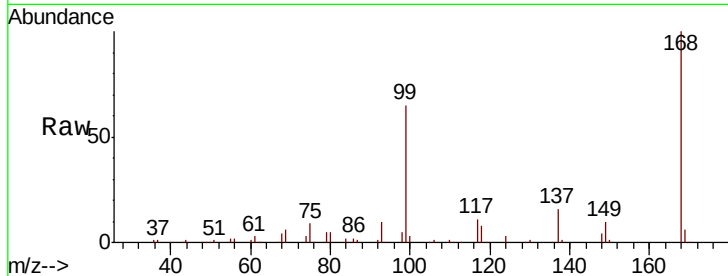




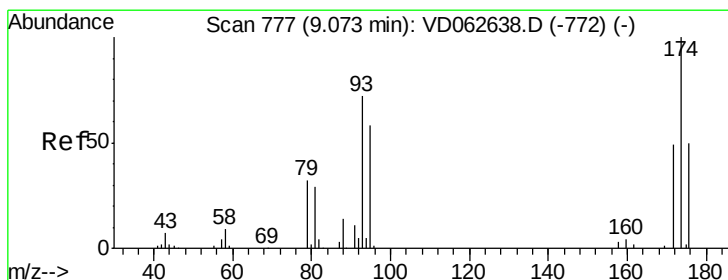
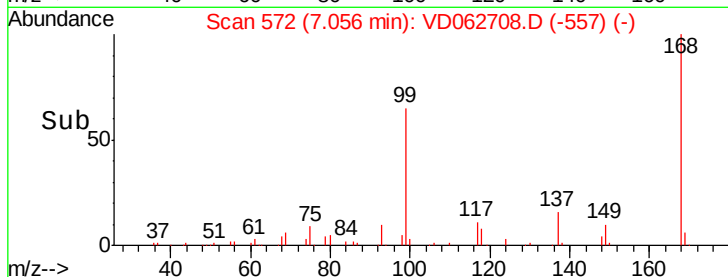
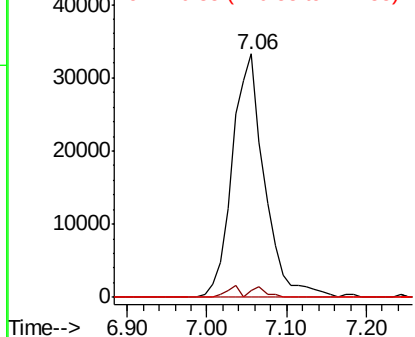
#38  
Carbon Tetrachloride  
Concen: 4.004 ug/l  
RT: 7.06 min Scan# 572  
Delta R.T. -0.05 min  
Lab File: VD062708.D  
Acq: 14 Jun 2019 13:56

Instrument :  
MSVOA\_D  
ClientSampleId :  
CONCRETE

Tot Ion:117 Resp: 93300  
Ion Ratio Lower Upper  
117 100  
119 2.9 73.5 110.3#  
121 0.0 24.2 36.4#

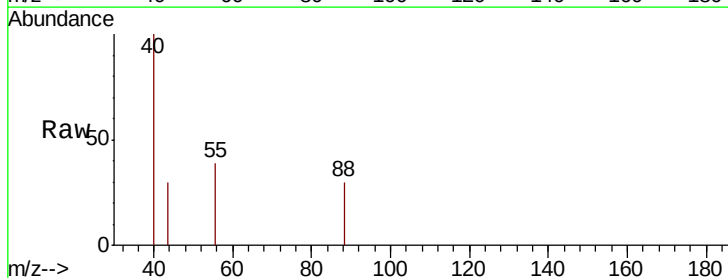


Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

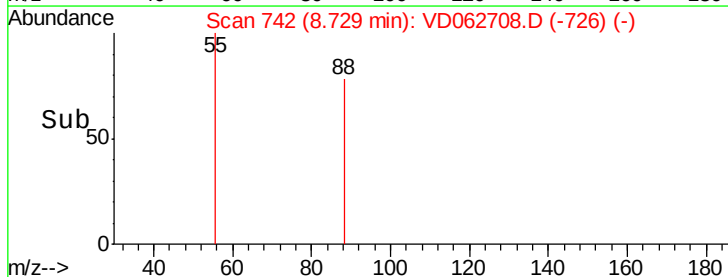
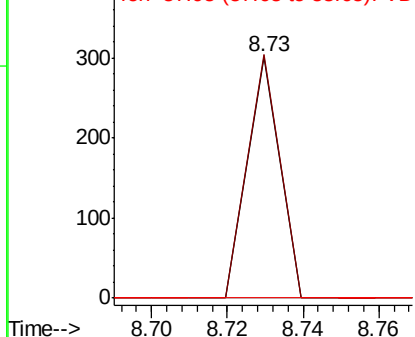


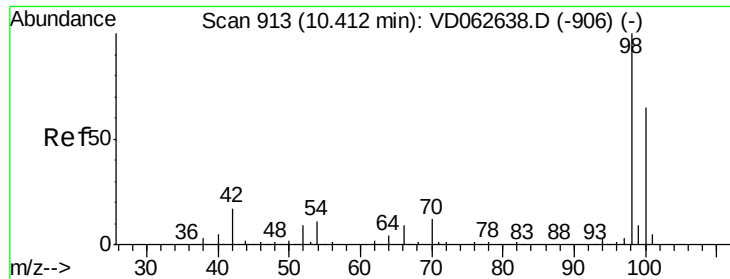
#49  
1,4-Dioxane  
Concen: 50.638 ug/l  
RT: 8.73 min Scan# 742  
Delta R.T. -0.34 min  
Lab File: VD062708.D  
Acq: 14 Jun 2019 13:56

Tgt Ion: 88 Resp: 178  
Ion Ratio Lower Upper  
88 100  
43 100.7 40.7 61.1#  
58 0.0 54.2 81.4#



Abundance Ion 88.00 (87.70 to 88.70): VDC  
Ion 43.05 (42.75 to 43.75): VDC  
Ion 57.95 (57.65 to 58.65): VDC

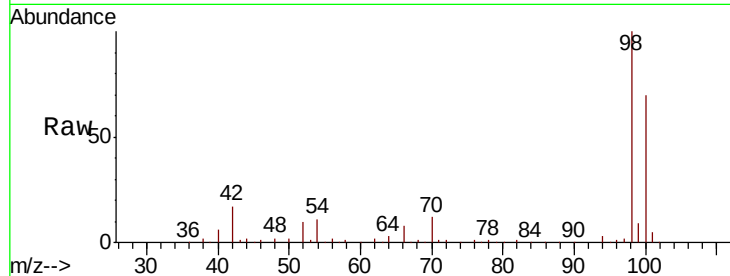




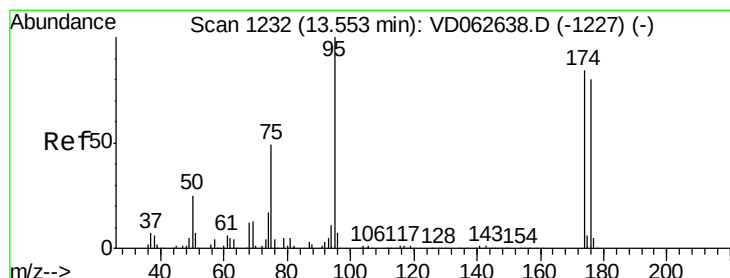
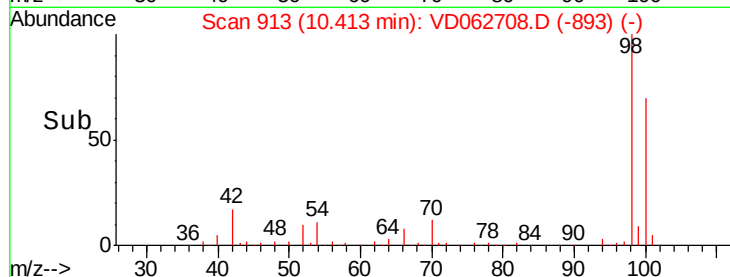
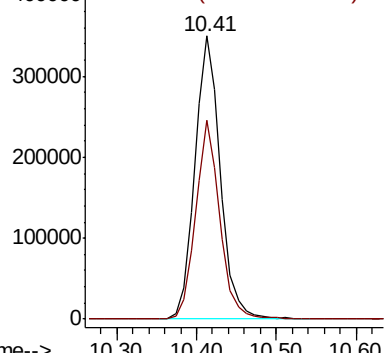
#50  
Toluene-d8  
Concen: 27.425 ug/l  
RT: 10.41 min Scan# 913  
Delta R.T. 0.00 min  
Lab File: VD062708.D  
Acq: 14 Jun 2019 13:56

Instrument :  
MSVOA\_D  
ClientSampleId :  
CONCRETE

Tot Ion: 98 Resp: 783768  
Ion Ratio Lower Upper  
98 100  
100 70.5 52.1 78.1

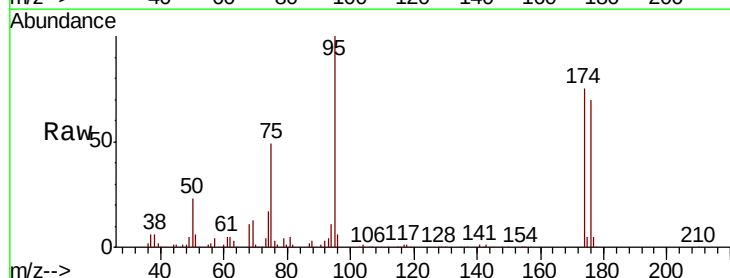


Abundance Ion 98.05 (97.75 to 98.75): VD062638.D (-906) (-)  
Ion 100.05 (99.75 to 100.75): VD062638.D (-906) (-)

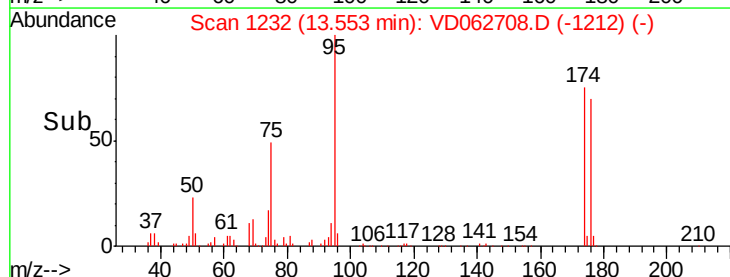
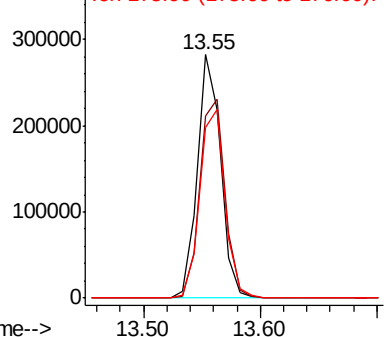


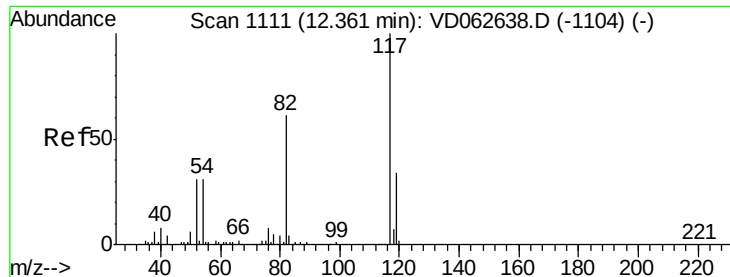
#62  
4-Bromofluorobenzene  
Concen: 29.412 ug/l  
RT: 13.55 min Scan# 1232  
Delta R.T. 0.00 min  
Lab File: VD062708.D  
Acq: 14 Jun 2019 13:56

Tgt Ion: 95 Resp: 392149  
Ion Ratio Lower Upper  
95 100  
174 74.9 0.0 167.0  
176 70.2 0.0 159.2



Abundance Ion 95.00 (94.70 to 95.70): VD062638.D (-1227) (-)  
Ion 173.90 (173.60 to 174.60): VD062638.D (-1227) (-)  
Ion 175.90 (175.60 to 176.60): VD062638.D (-1227) (-)

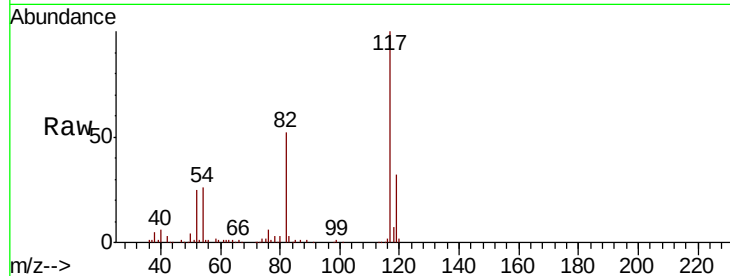




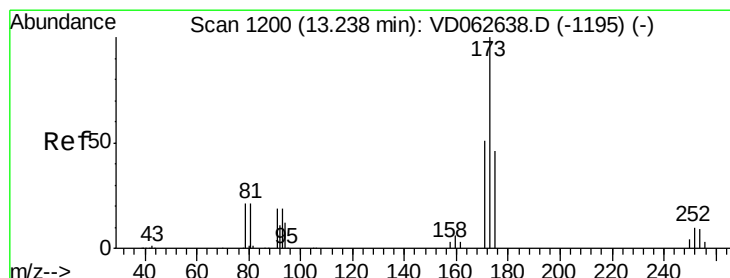
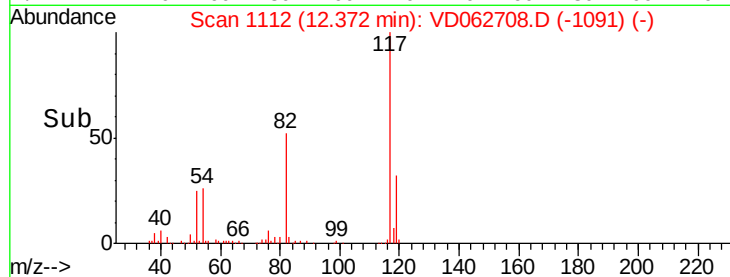
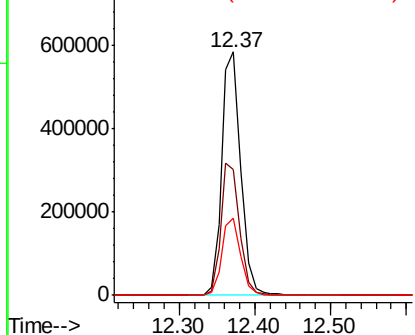
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1112  
Delta R.T. 0.01 min  
Lab File: VD062708.D  
Acq: 14 Jun 2019 13:56

Instrument :  
MSVOA\_D  
ClientSampleId :  
CONCRETE

Tot Ion:117 Resp: 1020282  
Ion Ratio Lower Upper  
117 100  
82 51.9 48.7 73.1  
119 31.6 27.0 40.6

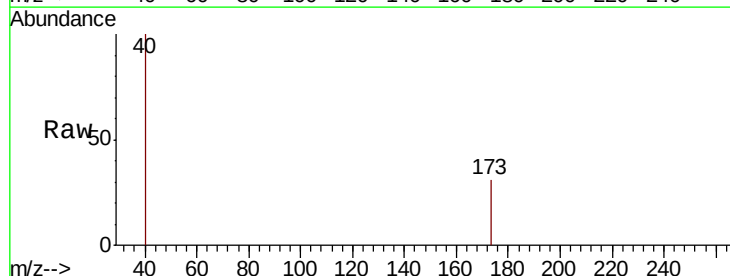


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

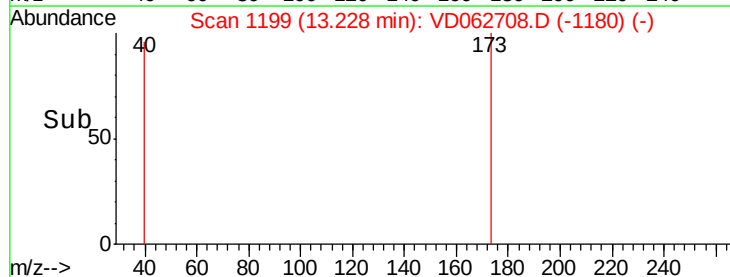
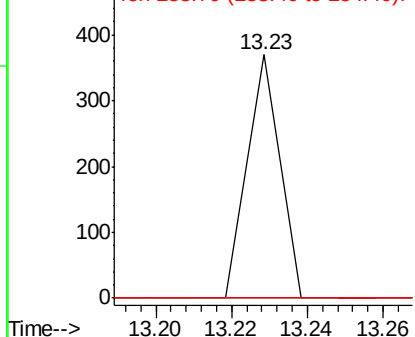


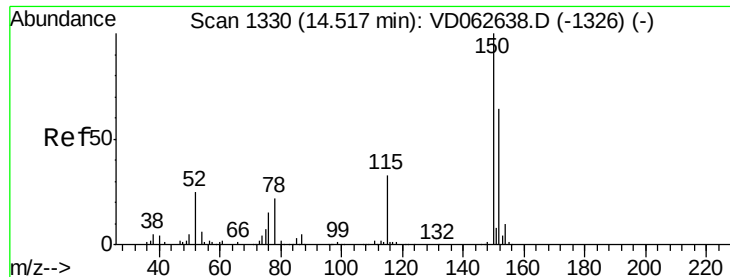
#71  
Bromoform  
Concen: 2.856 ug/l  
RT: 13.23 min Scan# 1199  
Delta R.T. -0.01 min  
Lab File: VD062708.D  
Acq: 14 Jun 2019 13:56

Tgt Ion:173 Resp: 219  
Ion Ratio Lower Upper  
173 100  
175 0.0 22.9 68.7#  
254 0.0 7.0 10.4#



Abundance Ion 172.80 (172.50 to 173.50): V  
Ion 174.80 (174.50 to 175.50): V  
Ion 253.70 (253.40 to 254.40): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD062708.D

Acq: 14 Jun 2019 13:56

Instrument :

MSVOA\_D

ClientSampleId :

CONCRETE

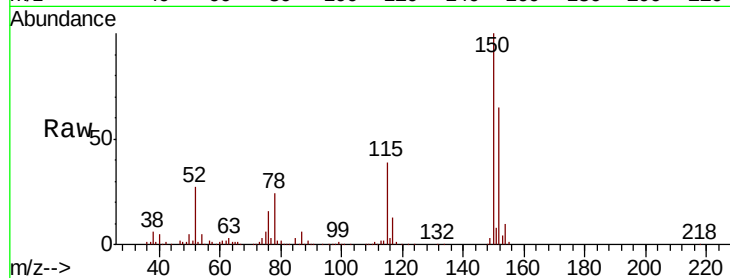
Tot Ion:152 Resp: 542038

Ion Ratio Lower Upper

152 100

115 60.6 30.1 90.5

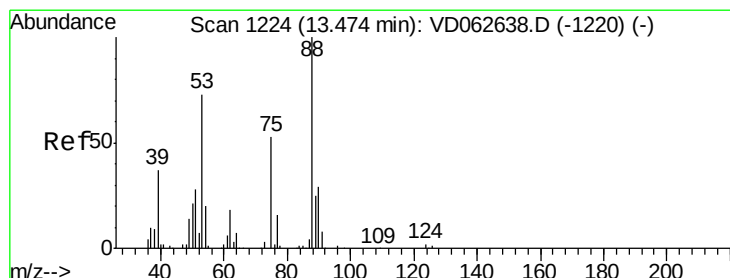
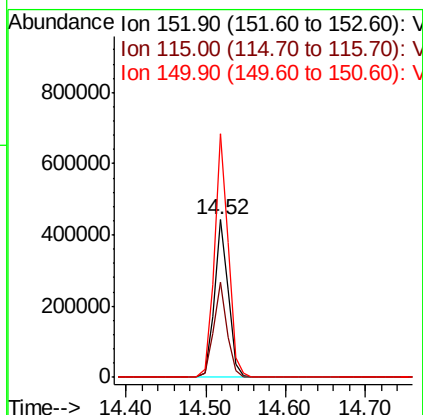
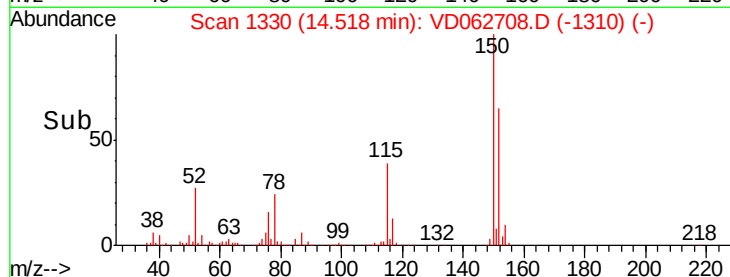
150 154.8 0.0 314.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 82.379 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062708.D

Acq: 14 Jun 2019 13:56

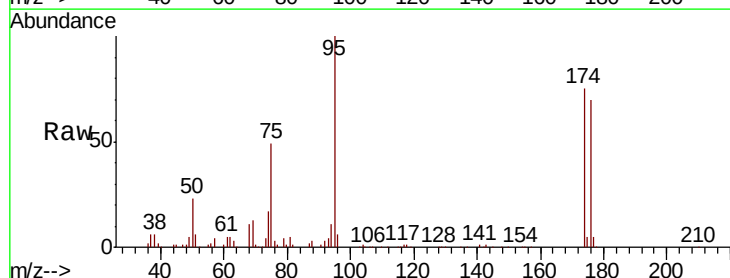
Tgt Ion: 75 Resp: 185510

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

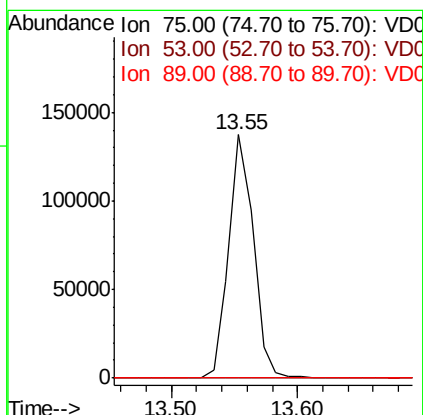
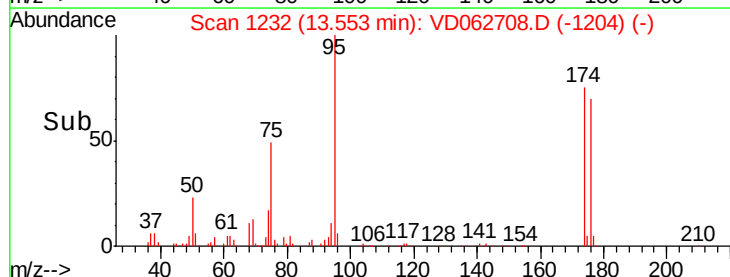
89 0.0 37.0 55.6#

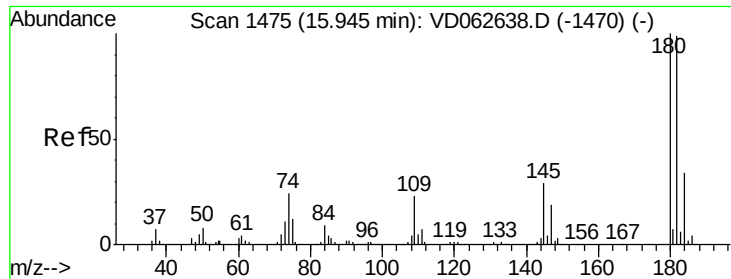


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

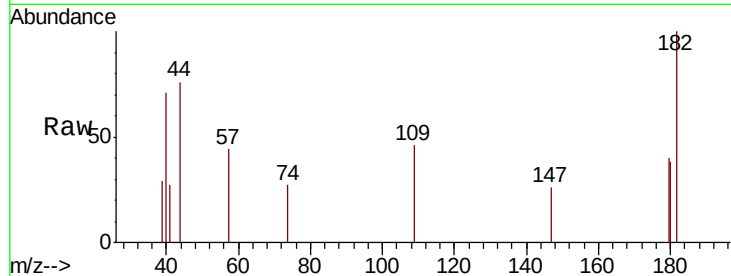




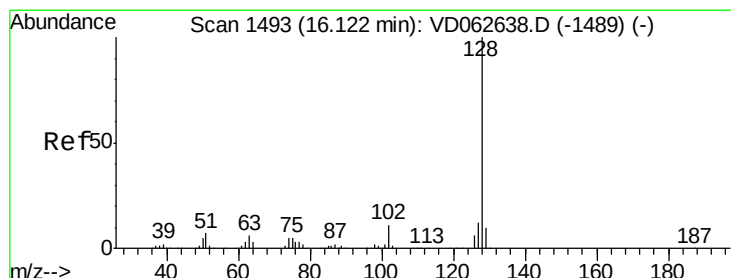
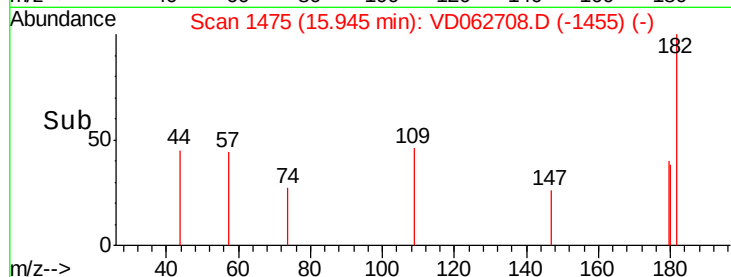
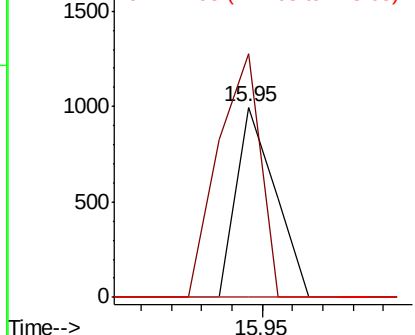
#93  
 1,2,4-Trichlorobenzene  
 Concen: 3.628 ug/l  
 RT: 15.95 min Scan# 1475  
 Delta R.T. 0.00 min  
 Lab File: VD062708.D  
 Acq: 14 Jun 2019 13:56

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CONCRETE

Tot Ion:180 Resp: 897  
 Ion Ratio Lower Upper  
 180 100  
 182 128.0 49.4 148.2  
 145 0.0 14.5 43.6#

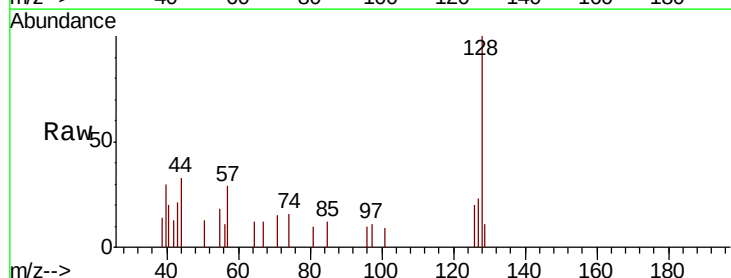


Abundance Ion 179.85 (179.55 to 180.55): V  
 Ion 181.85 (181.55 to 182.55): V  
 Ion 144.95 (144.65 to 145.65): V



#95  
 Naphthalene  
 Concen: 3.653 ug/l  
 RT: 16.12 min Scan# 1493  
 Delta R.T. 0.00 min  
 Lab File: VD062708.D  
 Acq: 14 Jun 2019 13:56

Tgt Ion:128 Resp: 4306  
 Ion Ratio Lower Upper  
 128 100  
 127 20.8 9.7 14.5#  
 129 9.7 8.1 12.1



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

