

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111618\  
 Data File : VF060773.D  
 Acq On : 16 Nov 2018 19:21  
 Operator : VA/AP  
 Sample : J5963-01RE  
 Misc : 5.09g/5mL/MSVOA-F/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 FS-OILY-STONE

Quant Time: Nov 17 04:24:22 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 14 03:11:14 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.88  | 168  | 157254   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 5.61  | 114  | 285433   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 9.78  | 117  | 207259   | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 12.56 | 152  | 95143    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.85  | 65   | 82541    | 46.02  | ug/l   | -0.01    |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 92.04% |          |
| 35) Dibromofluoromethane    | 4.12  | 113  | 90610    | 42.23  | ug/l   | -0.01    |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 84.46% |          |
| 50) Toluene-d8              | 7.56  | 98   | 194999   | 34.26  | ug/l   | -0.01    |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 68.52% |          |
| 62) 4-Bromofluorobenzene    | 11.42 | 95   | 84410    | 31.77  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 63.54% |          |

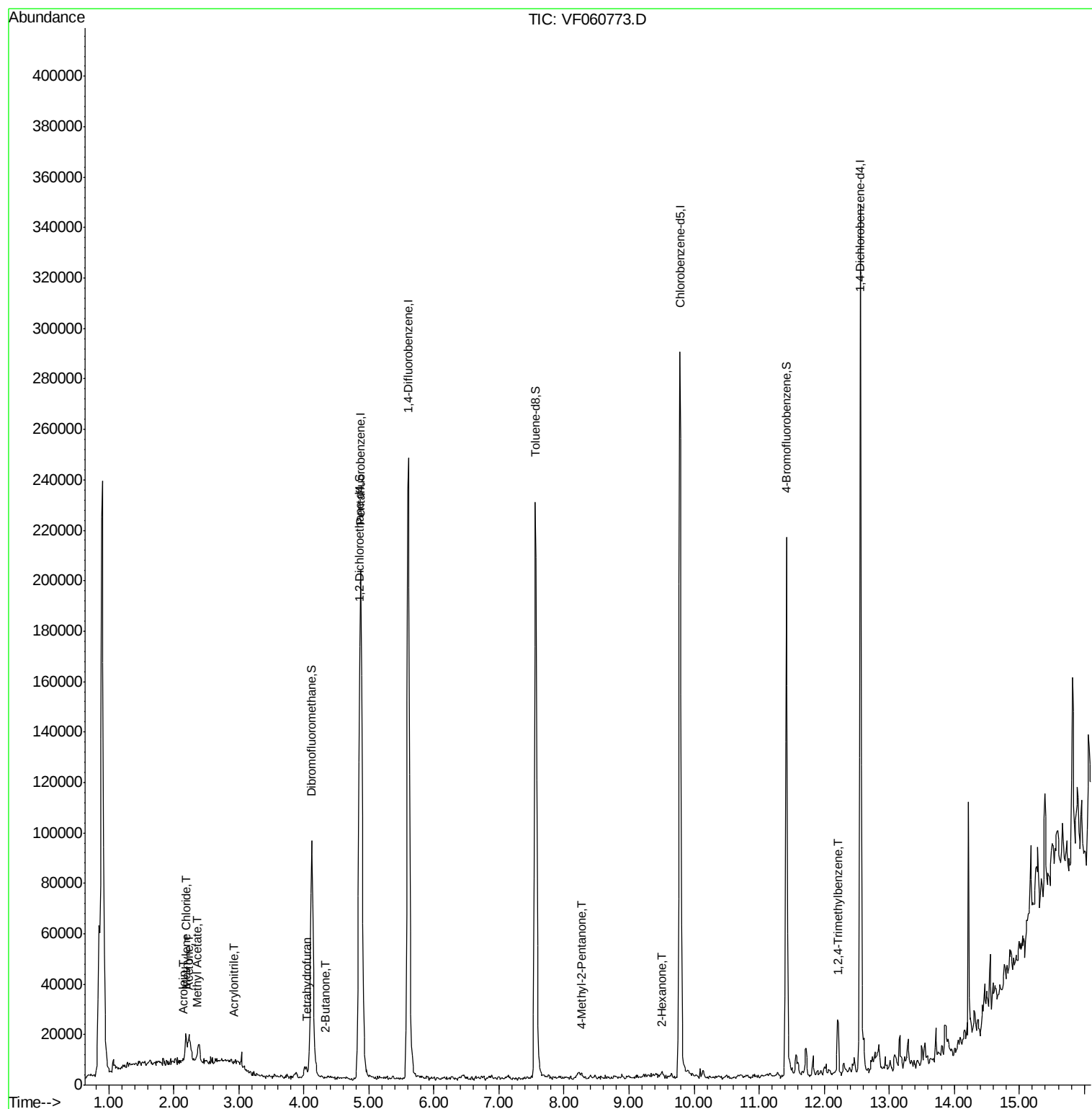
| Target Compounds           | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|----------------------------|-------|------|----------|-----------|--------|--------|
| 13) Acrolein               | 2.14  | 56   | 205      | 2.747     | ug/l   | 85     |
| 15) Acrylonitrile          | 2.92  | 53   | 909      | 5.226     | ug/l # | 33     |
| 16) Acetone                | 2.23  | 43   | 5349     | 13.952    | ug/l   | 98     |
| 18) Methyl Acetate         | 2.35  | 43   | 1595     | 2.534     | ug/l # | 87     |
| 20) Methylene Chloride     | 2.18  | 84   | 5235     | 1.323     | ug/l   | 93     |
| 25) 2-Butanone             | 4.34  | 43   | 1496     | 2.372     | ug/l # | 88     |
| 29) Tetrahydrofuran        | 4.04  | 42   | 991      | 3.810     | ug/l # | 36     |
| 41) Methacrylonitrile      | 4.74  | 41   | 463      | Below Cal | #      | 52     |
| 51) 4-Methyl-2-Pentanone   | 8.26  | 43   | 2572     | 2.179     | ug/l # | 80     |
| 59) 2-Hexanone             | 9.50  | 43   | 2648     | 3.193     | ug/l   | 84     |
| 84) 1,2,4-Trimethylbenzene | 12.22 | 105  | 11725    | 1.865     | ug/l   | 90     |

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

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Quant Title : SW846 8260  
QLast Update : Wed Nov 14 03:11:14 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF060773.D

Acq: 16 Nov 2018 19:21

Instrument :

MSVOA\_F

ClientSampleId :

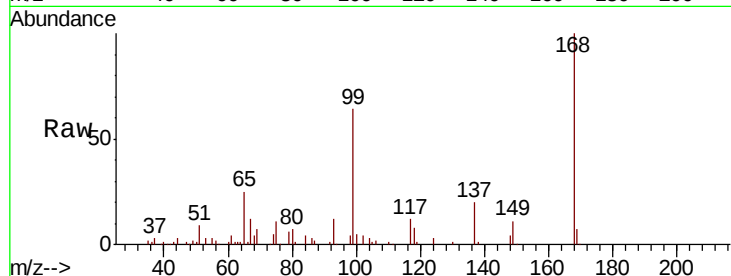
FS-OILY-STONE

Tot Ion:168 Resp: 157254

Ion Ratio Lower Upper

168 100

99 63.9 57.2 85.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

50000

40000

30000

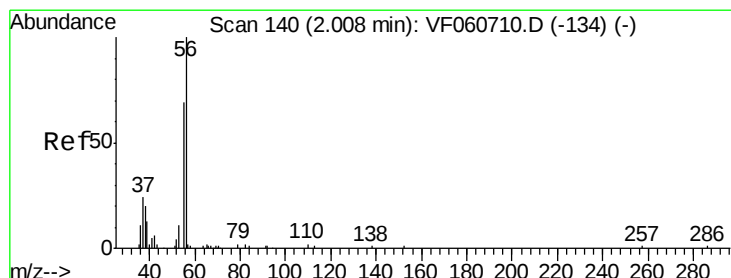
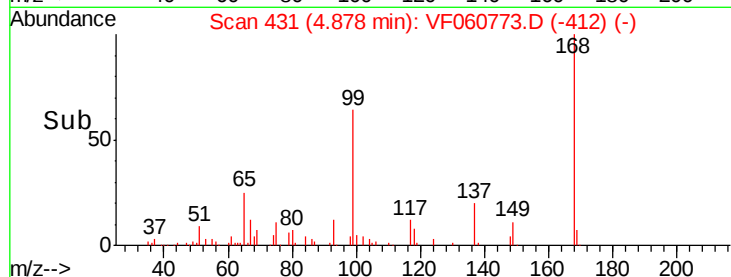
20000

10000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#13

Acrolein

Concen: 2.747 ug/l

RT: 2.14 min Scan# 153

Delta R.T. 0.13 min

Lab File: VF060773.D

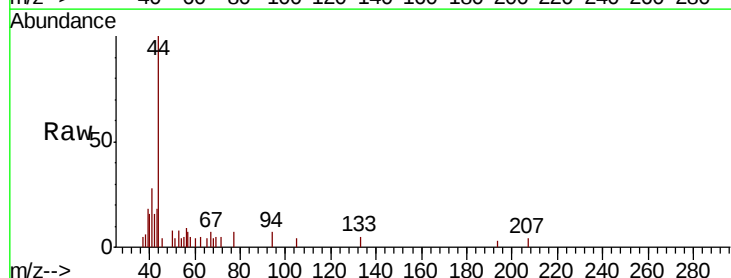
Acq: 16 Nov 2018 19:21

Tgt Ion: 56 Resp: 205

Ion Ratio Lower Upper

56 100

55 58.6 56.6 85.0



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

600

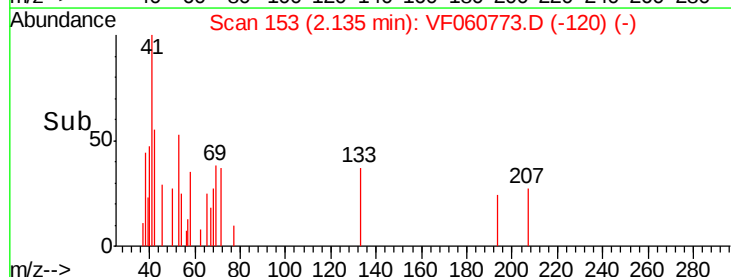
400

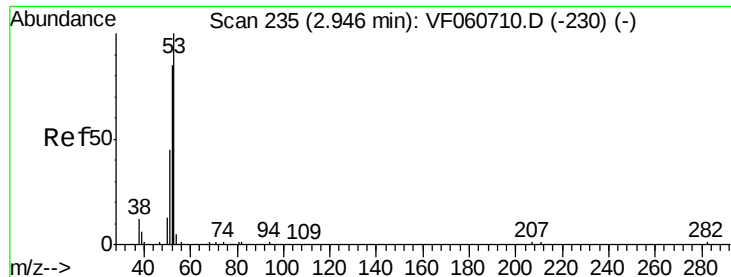
200

0

Time-->

2.10 2.12 2.14 2.16 2.18





#15

Acrylonitrile

Concen: 5.226 ug/l

RT: 2.92 min Scan# 233

Delta R.T. -0.02 min

Lab File: VF060773.D

Acq: 16 Nov 2018 19:21

Instrument :

MSVOA\_F

ClientSampleId :

FS-OILY-STONE

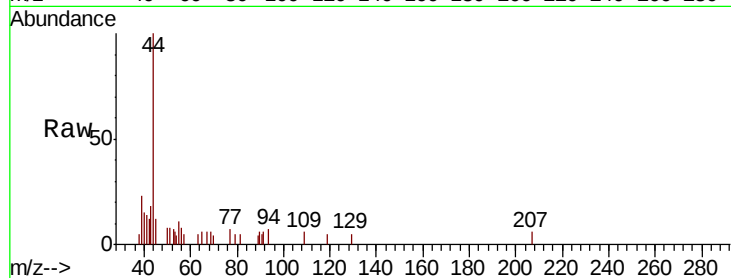
Tot Ion: 53 Resp: 909

Ion Ratio Lower Upper

53 100

52 0.0 68.8 103.2#

51 57.7 36.7 55.1#

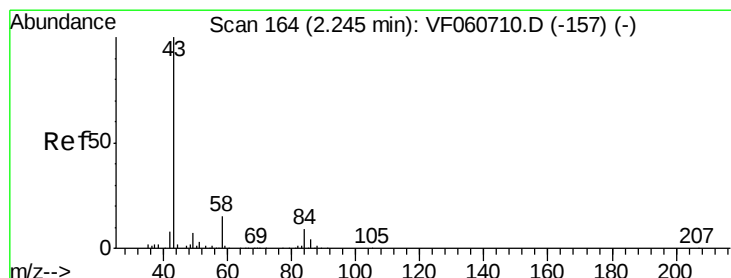
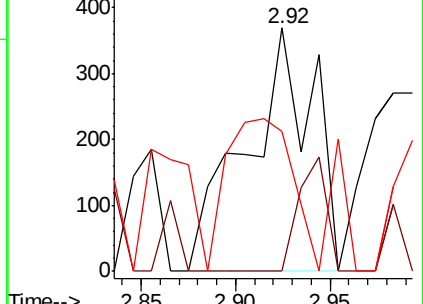
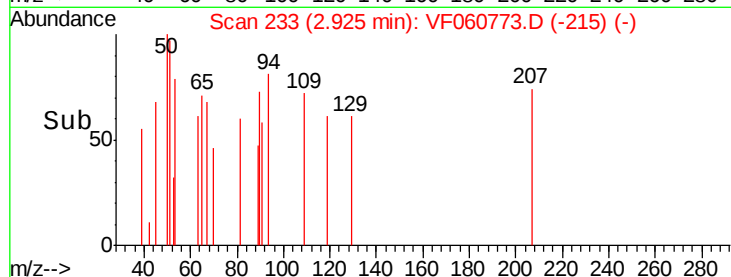


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Time-->



#16

Acetone

Concen: 13.952 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.01 min

Lab File: VF060773.D

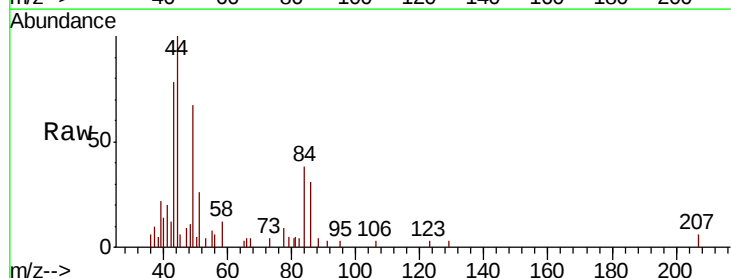
Acq: 16 Nov 2018 19:21

Tgt Ion: 43 Resp: 5349

Ion Ratio Lower Upper

43 100

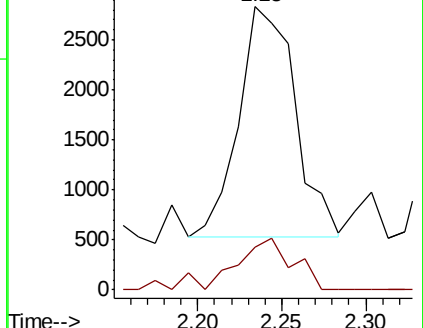
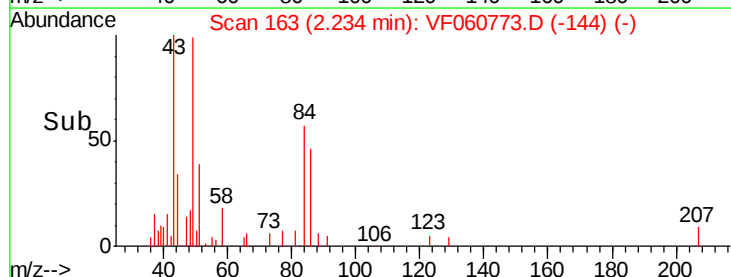
58 15.2 11.6 17.4

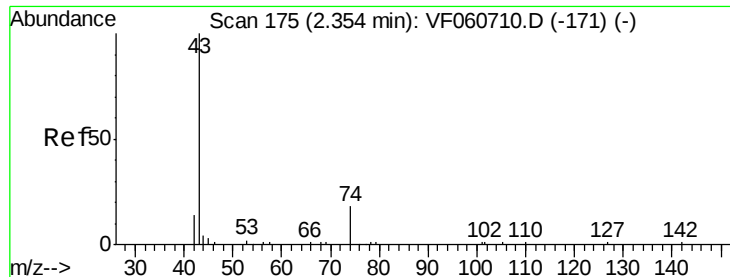


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

Time-->





#18

Methvl Acetate

Concen: 2.534 ug/l

RT: 2.35 min Scan# 175

Delta R.T. -0.00 min

Lab File: VF060773.D

Acq: 16 Nov 2018 19:21

Instrument :

MSVOA\_F

ClientSampleId :

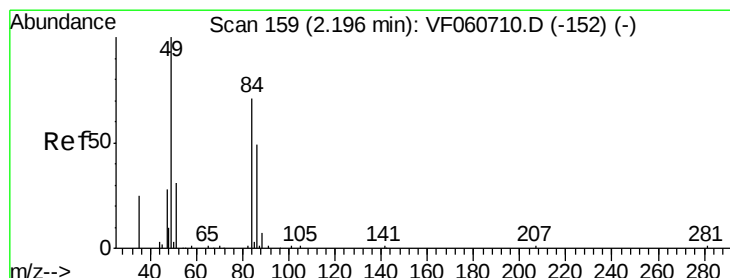
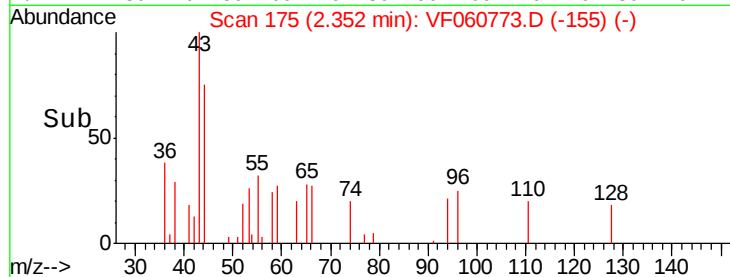
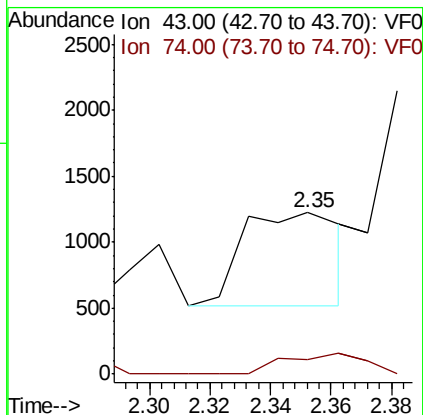
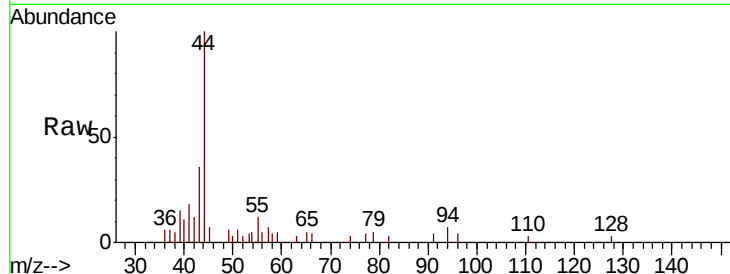
FS-OILY-STONE

Tot Ion: 43 Resp: 1595

Ion Ratio Lower Upper

43 100

74 9.2 11.8 17.8#



#20

Methylene Chloride

Concen: 1.323 ug/l

RT: 2.18 min Scan# 158

Delta R.T. -0.01 min

Lab File: VF060773.D

Acq: 16 Nov 2018 19:21

Tgt Ion: 84 Resp: 5235

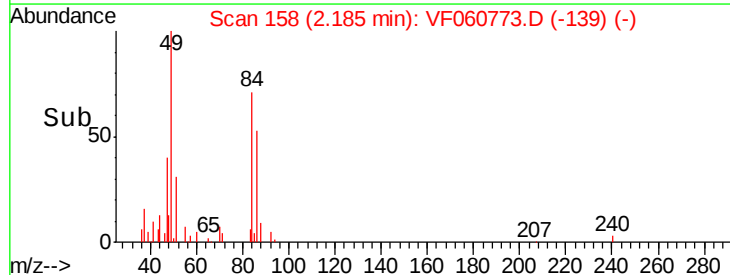
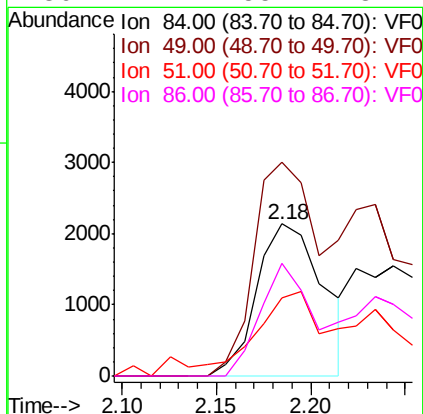
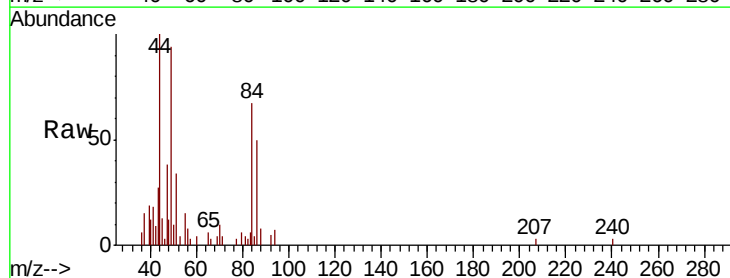
Ion Ratio Lower Upper

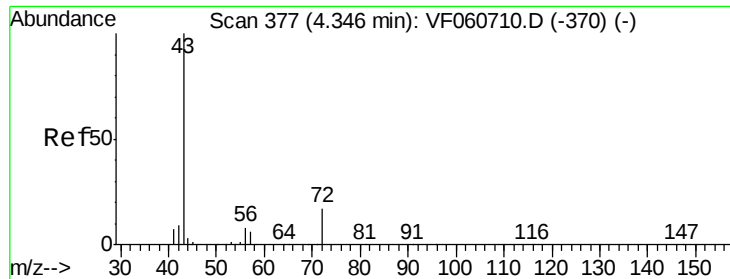
84 100

49 140.7 120.2 180.4

51 51.3 37.2 55.8

86 74.1 55.1 82.7





#25

2-Butanone

Concen: 2.372 ug/l

RT: 4.34 min Scan# 377

Delta R.T. -0.00 min

Lab File: VF060773.D

Acq: 16 Nov 2018 19:21

Instrument :

MSVOA\_F

ClientSampleId :

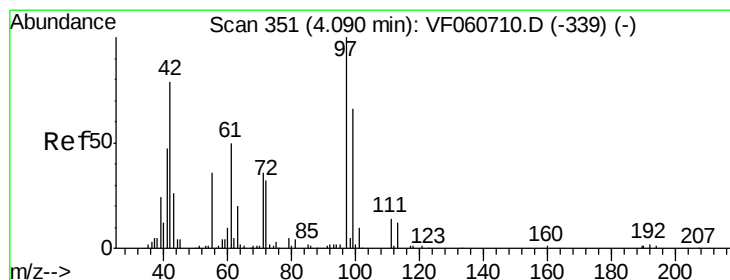
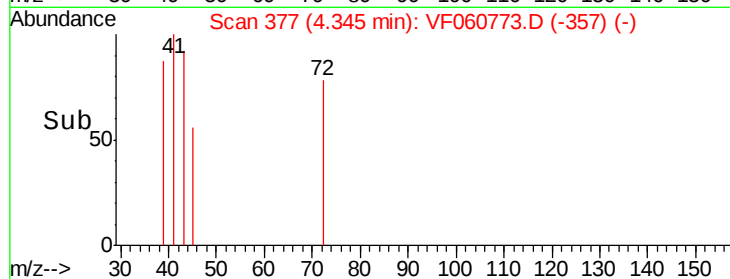
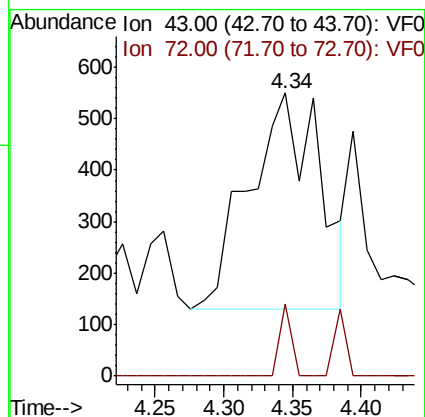
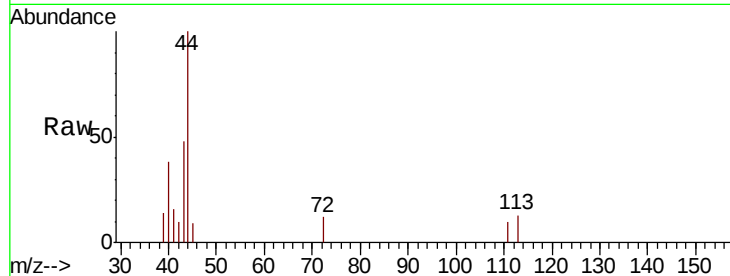
FS-OILY-STONE

Tot Ion: 43 Resp: 1496

Ion Ratio Lower Upper

43 100

72 25.6 16.1 24.1#



#29

Tetrahydrofuran

Concen: 3.810 ug/l

RT: 4.04 min Scan# 346

Delta R.T. -0.05 min

Lab File: VF060773.D

Acq: 16 Nov 2018 19:21

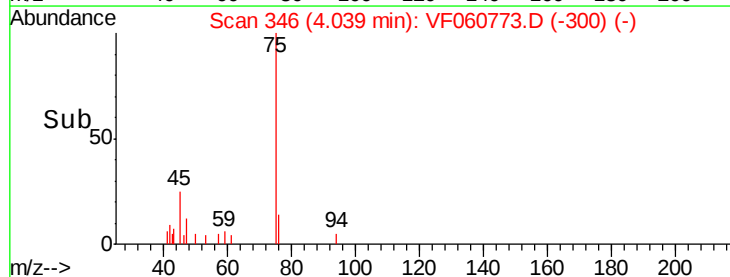
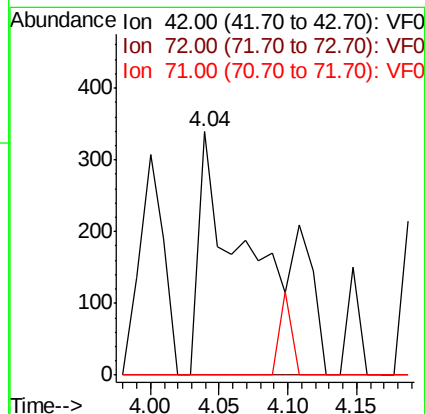
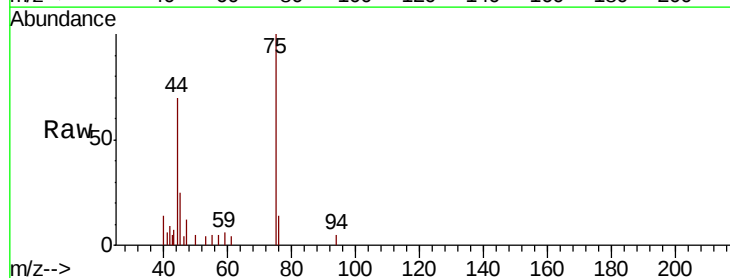
Tgt Ion: 42 Resp: 991

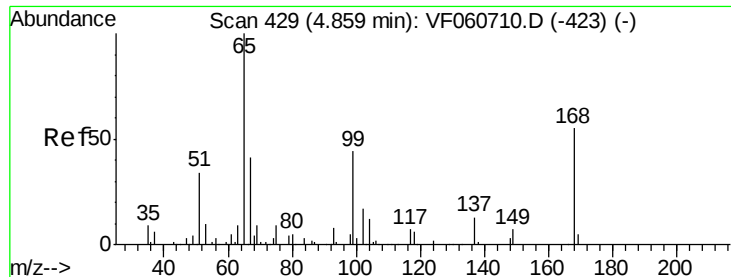
Ion Ratio Lower Upper

42 100

72 0.0 30.3 45.5#

71 0.0 32.2 48.2#





#33

1,2-Dichloroethane-d4

Concen: 46.018 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF060773.D

Acq: 16 Nov 2018 19:21

Instrument :

MSVOA\_F

ClientSampleId :

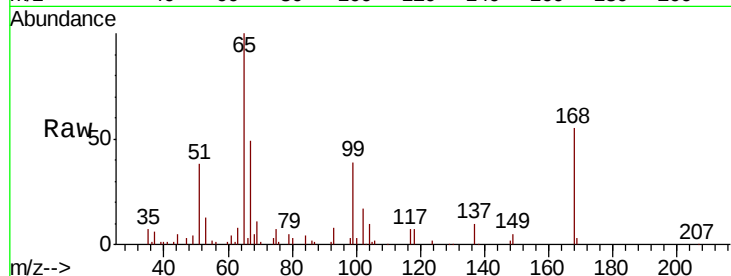
FS-OILY-STONE

Tot Ion: 65 Resp: 82541

Ion Ratio Lower Upper

65 100

67 48.7 0.0 90.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

30000

25000

20000

15000

10000

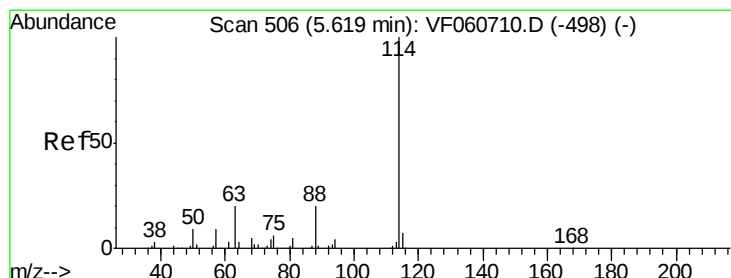
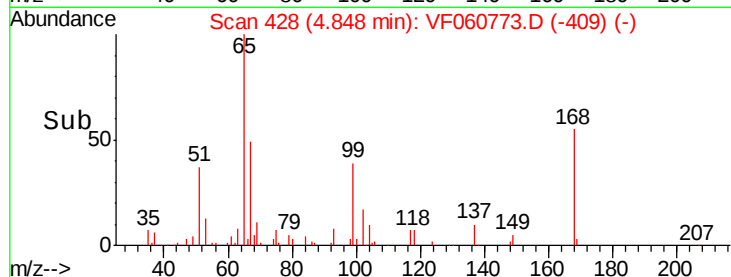
5000

0

4.85

4.70 4.80 4.90 5.00

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.01 min

Lab File: VF060773.D

Acq: 16 Nov 2018 19:21

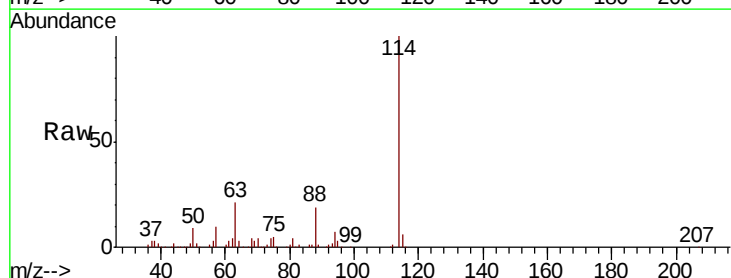
Tgt Ion: 114 Resp: 285433

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

88 19.4 0.0 39.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

100000

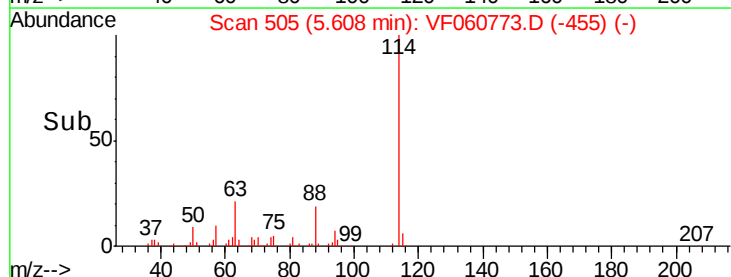
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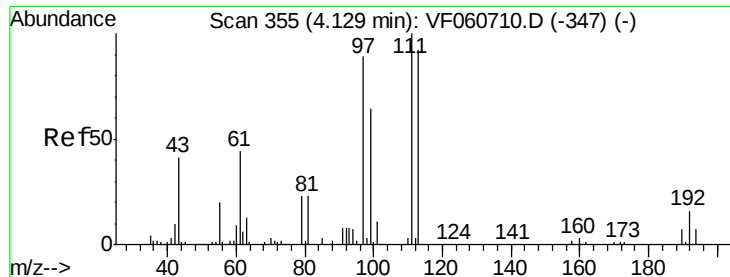
0

5.61

5.40 5.60 5.80

Time-->

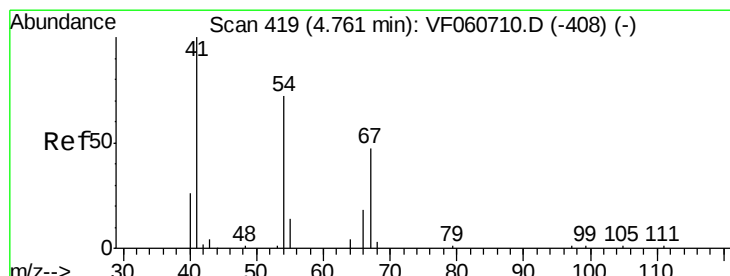
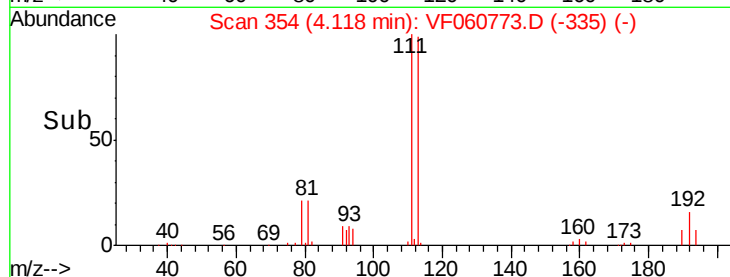
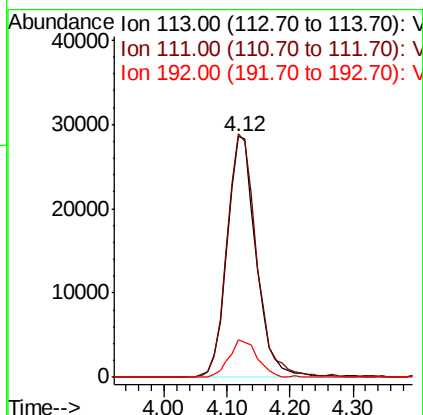
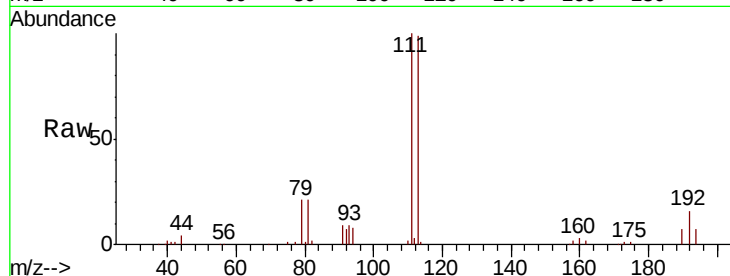




#35  
Dibromofluoromethane  
Concen: 42.231 ug/l  
RT: 4.12 min Scan# 354  
Delta R.T. -0.01 min  
Lab File: VF060773.D  
Acq: 16 Nov 2018 19:21

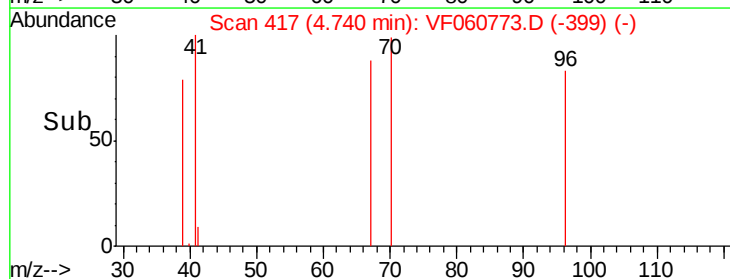
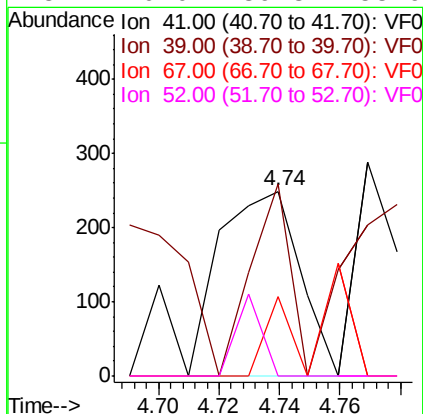
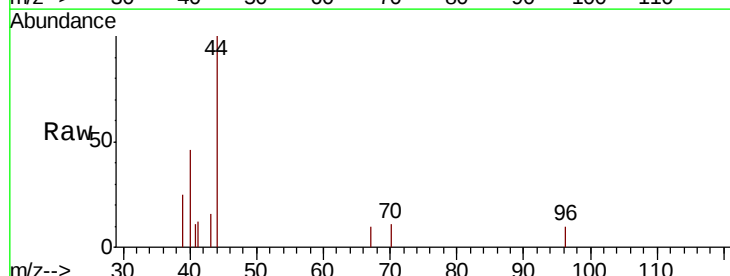
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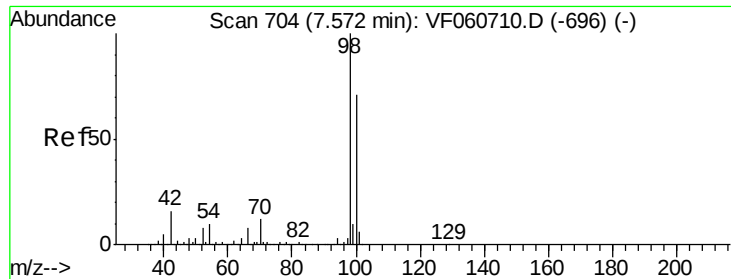
Tot Ion:113 Resp: 90610  
Ion Ratio Lower Upper  
113 100  
111 101.3 87.1 130.7  
192 15.8 13.8 20.6



#41  
Methacrylonitrile  
Concen: Below Cal  
RT: 4.74 min Scan# 417  
Delta R.T. -0.02 min  
Lab File: VF060773.D  
Acq: 16 Nov 2018 19:21

Tgt Ion: 41 Resp: 463  
Ion Ratio Lower Upper  
41 100  
39 104.0 47.1 70.7#  
67 42.6 37.1 55.7  
52 0.0 39.3 58.9#

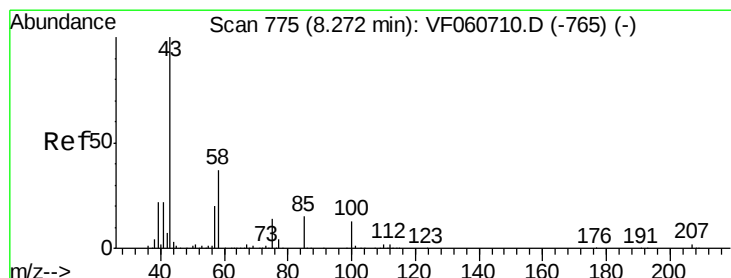
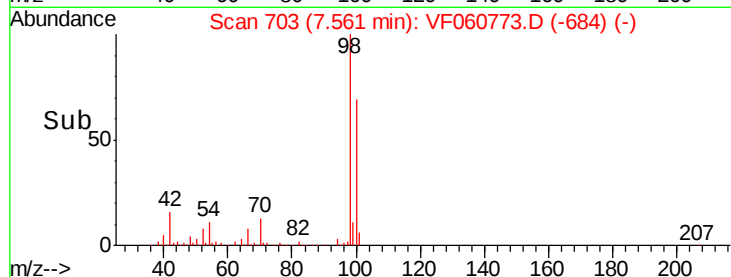
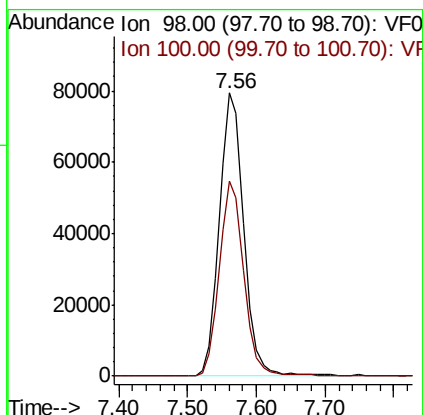
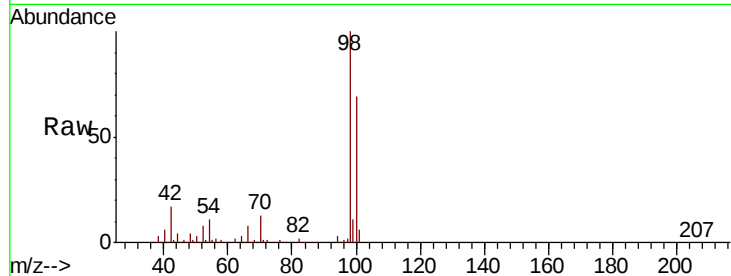




#50  
Toluene-d8  
Concen: 34.260 ug/l  
RT: 7.56 min Scan# 703  
Delta R.T. -0.01 min  
Lab File: VF060773.D  
Acq: 16 Nov 2018 19:21

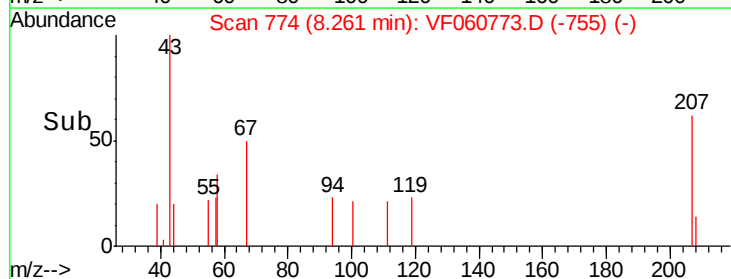
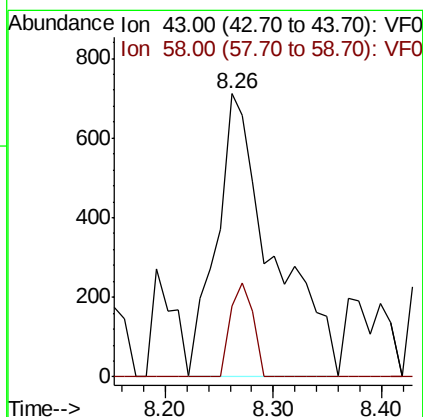
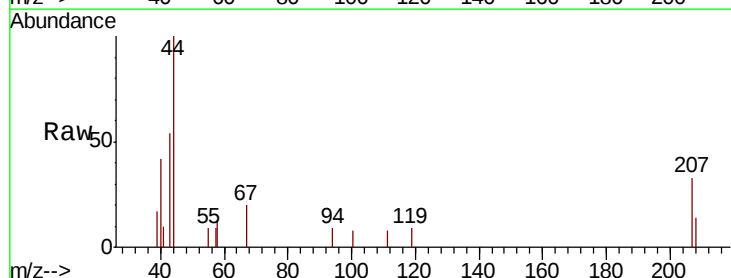
Instrument :  
MSVOA\_F  
ClientSampleId :  
FS-OILY-STONE

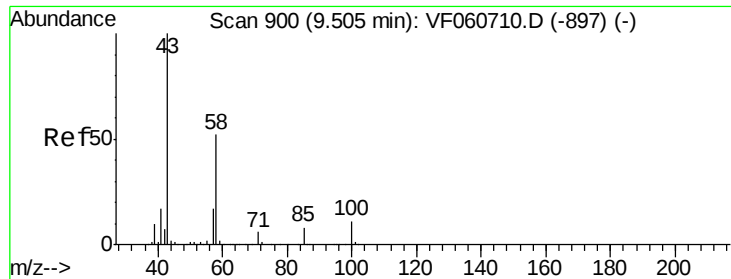
Tot Ion: 98 Resp: 194999  
Ion Ratio Lower Upper  
98 100  
100 69.0 56.5 84.7



#51  
4-Methyl-2-Pentanone  
Concen: 2.179 ug/l  
RT: 8.26 min Scan# 774  
Delta R.T. -0.01 min  
Lab File: VF060773.D  
Acq: 16 Nov 2018 19:21

Tgt Ion: 43 Resp: 2572  
Ion Ratio Lower Upper  
43 100  
58 24.9 29.2 43.8#

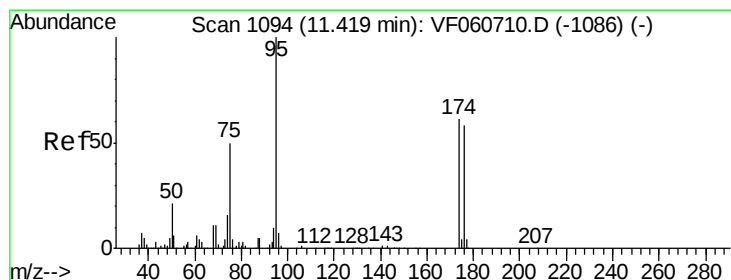
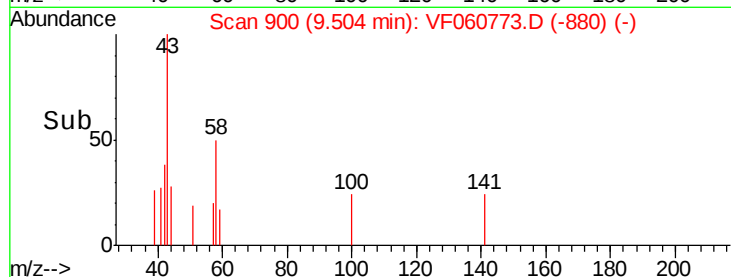
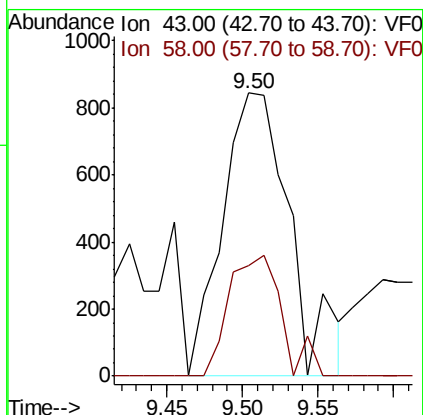
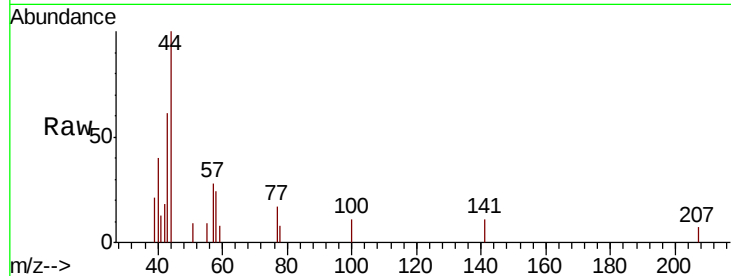




#59  
2-Hexanone  
Concen: 3.193 ug/l  
RT: 9.50 min Scan# 900  
Delta R.T. -0.00 min  
Lab File: VF060773.D  
Acq: 16 Nov 2018 19:21

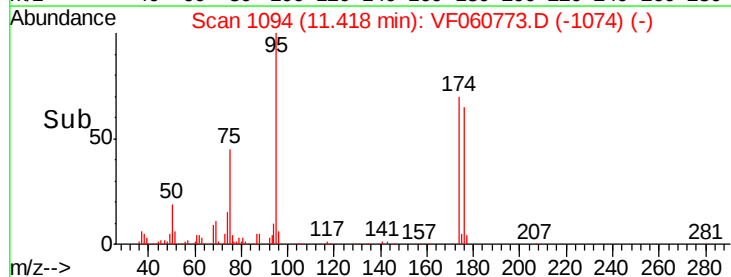
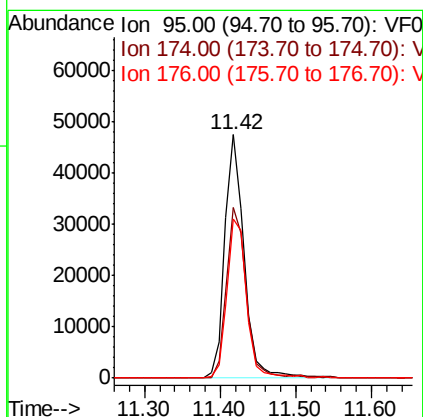
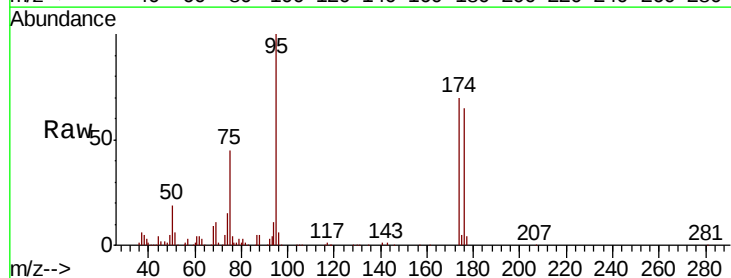
Instrument :  
MSVOA\_F  
ClientSampleId :  
FS-OILY-STONE

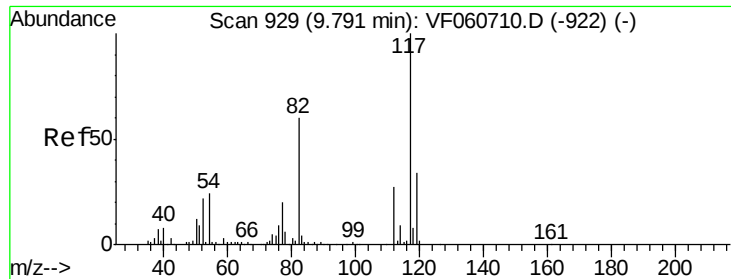
Tot Ion: 43 Resp: 2648  
Ion Ratio Lower Upper  
43 100  
58 39.0 24.9 74.7



#62  
4-Bromofluorobenzene  
Concen: 31.770 ug/l  
RT: 11.42 min Scan# 1094  
Delta R.T. -0.00 min  
Lab File: VF060773.D  
Acq: 16 Nov 2018 19:21

Tgt Ion: 95 Resp: 84410  
Ion Ratio Lower Upper  
95 100  
174 69.9 0.0 121.6  
176 65.4 0.0 115.2

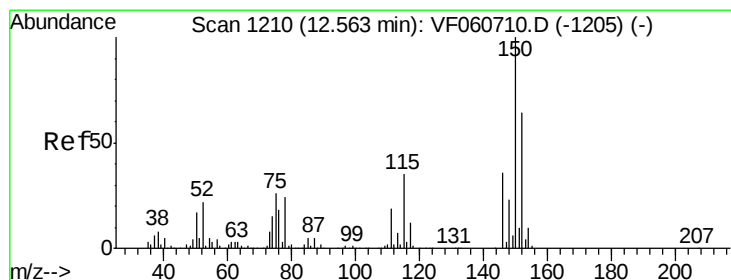
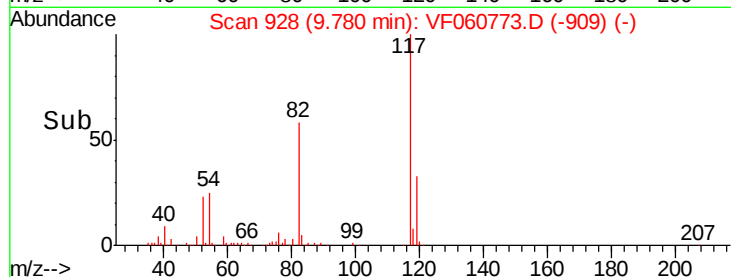
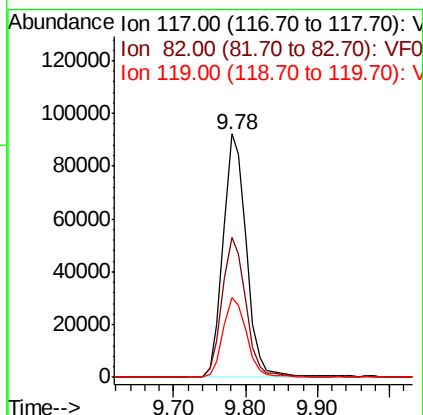
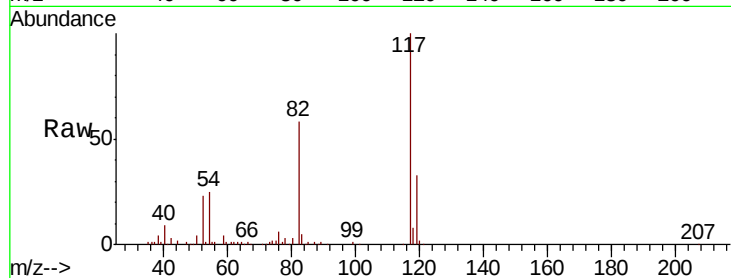




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.78 min Scan# 928  
Delta R.T. -0.01 min  
Lab File: VF060773.D  
Acq: 16 Nov 2018 19:21

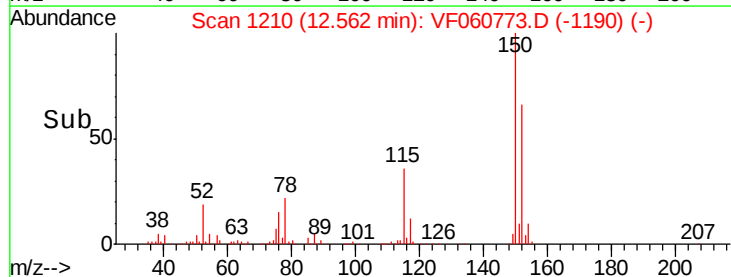
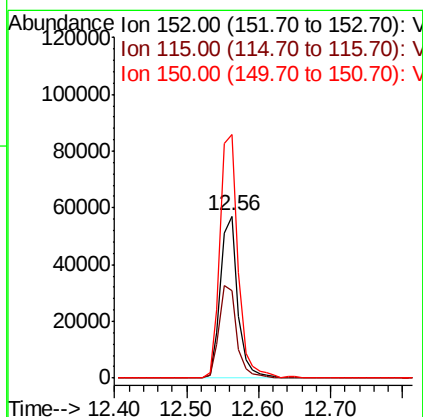
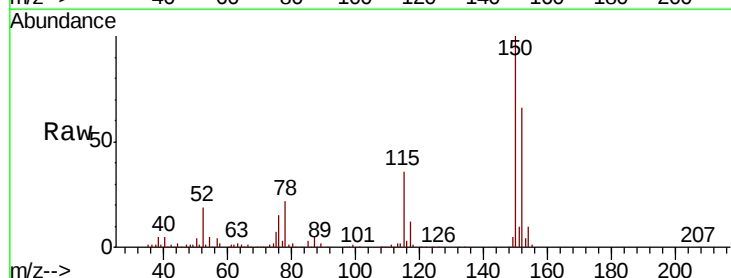
Instrument :  
MSVOA\_F  
ClientSampleId :  
FS-OILY-STONE

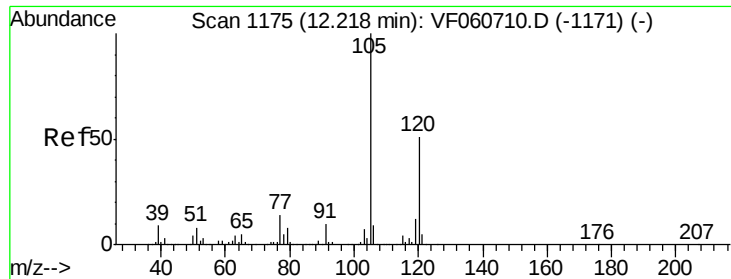
Tot Ion:117 Resp: 207259  
Ion Ratio Lower Upper  
117 100  
82 57.5 47.9 71.9  
119 32.7 26.8 40.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.56 min Scan# 1210  
Delta R.T. -0.00 min  
Lab File: VF060773.D  
Acq: 16 Nov 2018 19:21

Tgt Ion:152 Resp: 95143  
Ion Ratio Lower Upper  
152 100  
115 54.0 27.9 83.7  
150 150.4 0.0 316.4





#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.865 ug/l  
 RT: 12.22 min Scan# 1175  
 Delta R.T. -0.00 min  
 Lab File: VF060773.D  
 Acq: 16 Nov 2018 19:21

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 FS-OILY-STONE

Tot Ion:105 Resp: 11725  
 Ion Ratio Lower Upper  
 105 100  
 120 43.7 25.5 76.5

