

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF080118\  
 Data File : VF059783.D  
 Acq On : 2 Aug 2018 5:46  
 Operator : VA/AP  
 Sample : J3826-05  
 Misc : 6.37g/5mL/MSVOA\_F/SOIL  
 ALS Vial : 100 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 OK-03-073118

Quant Time: Aug 02 07:50:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 31 15:23:22 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.04  | 168  | 205626   | 50.00 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 5.76  | 114  | 304967   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 246171   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 110861   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 5.02   | 65  | 183524   | 49.66 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.32% |      |
| 35) Dibromofluoromethane    | 4.30   | 113 | 147887   | 46.69 | ug/l   | 0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.38% |      |
| 50) Toluene-d8              | 7.71   | 98  | 235174   | 31.84 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 63.68% |      |
| 62) 4-Bromofluorobenzene    | 11.51  | 95  | 111885   | 27.36 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 54.72% |      |

| Target Compounds              |       |     |      |           |        | Qvalue |
|-------------------------------|-------|-----|------|-----------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.01  | 85  | 131  | Below Cal | #      | 44     |
| 3) Chloromethane              | 1.09  | 50  | 533  | Below Cal | #      | 38     |
| 4) Vinyl Chloride             | 1.19  | 62  | 227  | Below Cal | #      | 47     |
| 5) Bromomethane               | 1.36  | 94  | 566  | Below Cal | #      | 4      |
| 6) Chloroethane               | 1.43  | 64  | 87   | Below Cal | #      | 35     |
| 10) Methyl Iodide             | 1.97  | 142 | 72   | Below Cal | #      | 20     |
| 11) Tert butyl alcohol        | 2.68  | 59  | 400  | 1.232     | ug/l # | 1      |
| 13) Acrolein                  | 2.11  | 56  | 106  | 17.335    | ug/l # | 79     |
| 15) Acrylonitrile             | 3.04  | 53  | 271  | 1.198     | ug/l # | 7      |
| 16) Acetone                   | 2.34  | 43  | 2221 | 3.341     | ug/l # | 94     |
| 17) Carbon Disulfide          | 1.88  | 76  | 109  | Below Cal | #      | 71     |
| 18) Methyl Acetate            | 2.45  | 43  | 1517 | Below Cal | #      | 86     |
| 20) Methylene Chloride        | 2.27  | 84  | 6118 | Below Cal | #      | 75     |
| 21) trans-1,2-Dichloroethene  | 2.39  | 96  | 75   | Below Cal | #      | 21     |
| 28) Bromochloromethane        | 4.03  | 49  | 172  | Below Cal | #      | 15     |
| 31) Cyclohexane               | 3.76  | 56  | 115  | Below Cal | #      | 15     |
| 36) 1,1-Dichloropropene       | 4.44  | 75  | 60   | Below Cal | #      | 7      |
| 37) Ethyl Acetate             | 4.30  | 43  | 438  | Below Cal | #      | 19     |
| 39) Methylcyclohexane         | 5.76  | 83  | 5234 | Below Cal | #      | 36     |
| 41) Methacrylonitrile         | 4.92  | 41  | 108  | Below Cal | #      | 24     |
| 44) Trichloroethene           | 5.55  | 130 | 76   | Below Cal | #      | 2      |
| 49) 1,4-Dioxane               | 6.72  | 88  | 62   | Below Cal | #      | 21     |
| 52) Toluene                   | 7.79  | 92  | 373  | Below Cal | #      | 67     |
| 58) 2-Chloroethyl Vinyl ether | 7.77  | 63  | 247  | 1.230     | ug/l   | 100    |
| 68) m/p-Xylenes               | 10.27 | 106 | 66   | Below Cal | #      | 58     |
| 78) n-propylbenzene           | 11.69 | 91  | 274  | Below Cal | #      | 54     |
| 79) 2-Chlorotoluene           | 11.82 | 91  | 146  | Below Cal | #      | 44     |
| 80) 1,3,5-Trimethylbenzene    | 11.91 | 105 | 81   | Below Cal | #      | 31     |
| 82) 4-Chlorotoluene           | 11.98 | 91  | 257  | Below Cal | #      | 44     |
| 84) 1,2,4-Trimethylbenzene    | 12.29 | 105 | 477  | Below Cal | #      | 98     |
| 85) sec-Butylbenzene          | 12.40 | 105 | 60   | Below Cal | #      | 57     |
| 86) p-Isopropyltoluene        | 12.55 | 119 | 88   | Below Cal | #      | 1      |
| 87) 1,3-Dichlorobenzene       | 12.63 | 146 | 392  | Below Cal | #      | 1      |
| 88) 1,4-Dichlorobenzene       | 12.63 | 146 | 392  | Below Cal | #      | 1      |

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ALS Vial : 100 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
OK-03-073118

Quant Time: Aug 02 07:50:49 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F073018S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 31 15:23:22 2018  
Response via : Initial Calibration

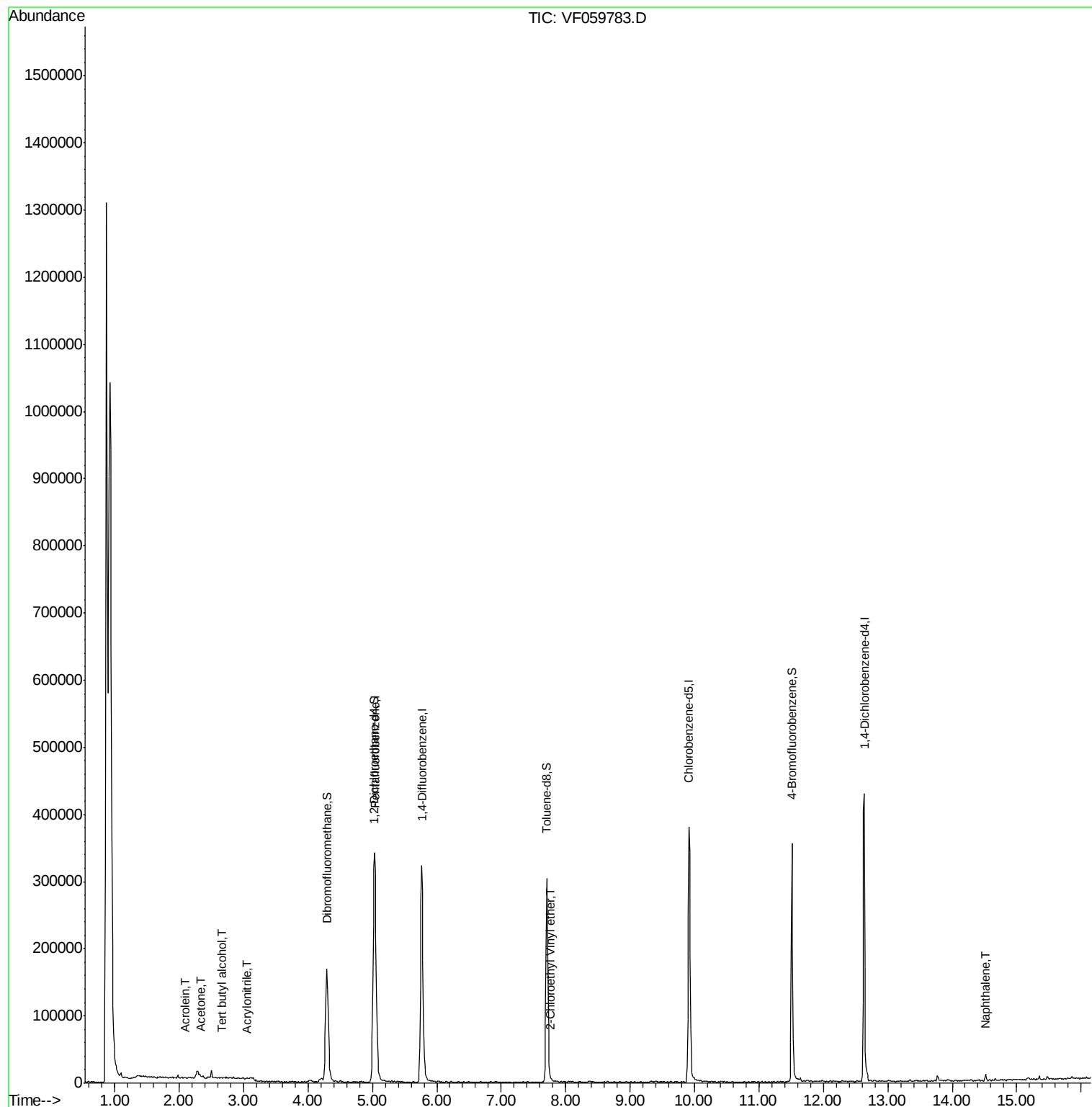
| Internal Standards         | R.T.  | QIon | Response | Conc       | Units | Dev(Min) |
|----------------------------|-------|------|----------|------------|-------|----------|
| 89) n-Butylbenzene         | 12.92 | 91   | 196      | Below Cal  | #     | 54       |
| 91) 1,2-Dichlorobenzene    | 13.02 | 146  | 279      | Below Cal  | #     | 43       |
| 93) 1,2,4-Trichlorobenzene | 14.26 | 180  | 395      | Below Cal  | #     | 26       |
| 95) Naphthalene            | 14.53 | 128  | 6820     | 1.427 ug/l | #     | 97       |

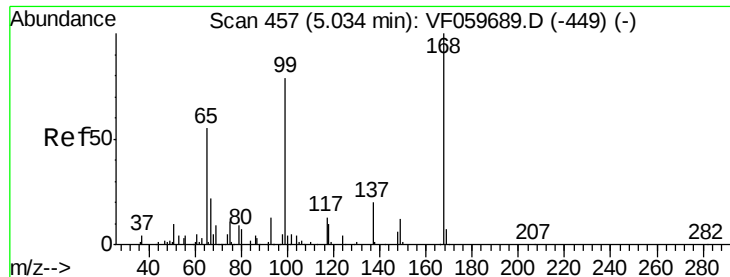
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 458

Delta R.T. 0.01 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

Instrument :

MSVOA\_F

ClientSampleId :

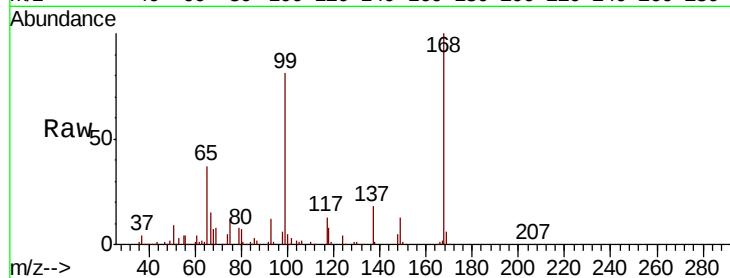
OK-03-073118

Tgt Ion:168 Resp: 205626

Ion Ratio Lower Upper

168 100

99 80.7 63.3 94.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

80000

60000

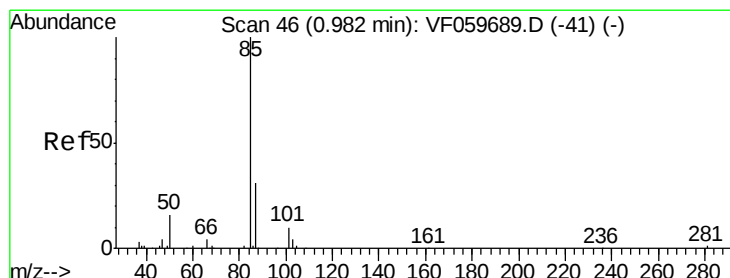
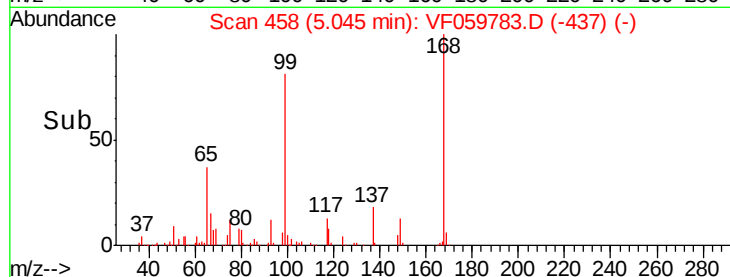
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.01 min Scan# 49

Delta R.T. 0.03 min

Lab File: VF059783.D

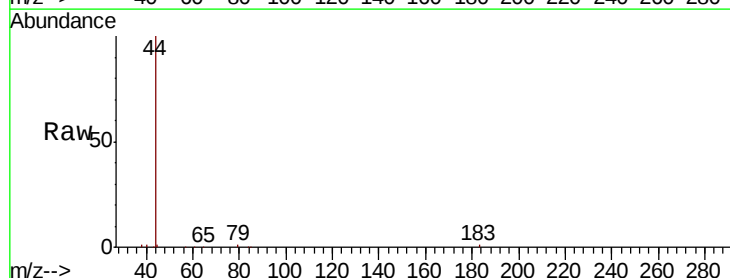
Acq: 2 Aug 2018 5:46

Tgt Ion: 85 Resp: 131

Ion Ratio Lower Upper

85 100

87 0.0 15.3 45.8#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.01

120

100

80

60

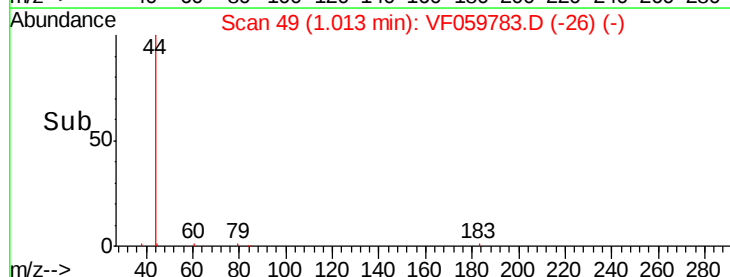
40

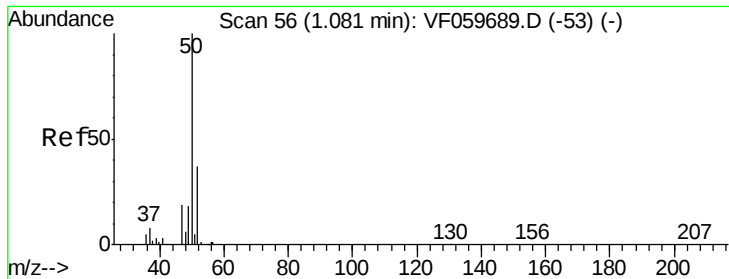
20

0

Time-->

0.95 1.00 1.05





#3

Chloromethane

Concen: Below Cal

RT: 1.09 min Scan# 57

Delta R.T. 0.01 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

Instrument :

MSVOA\_F

ClientSampleId :

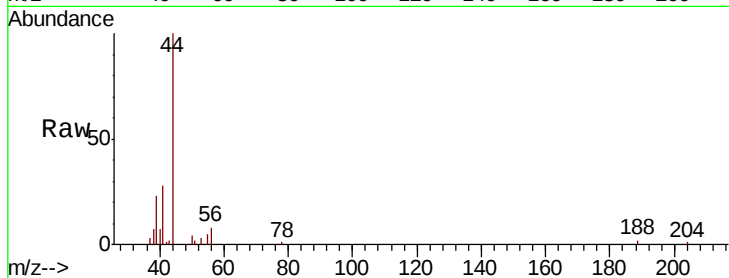
OK-03-073118

Tgt Ion: 50 Resp: 533

Ion Ratio Lower Upper

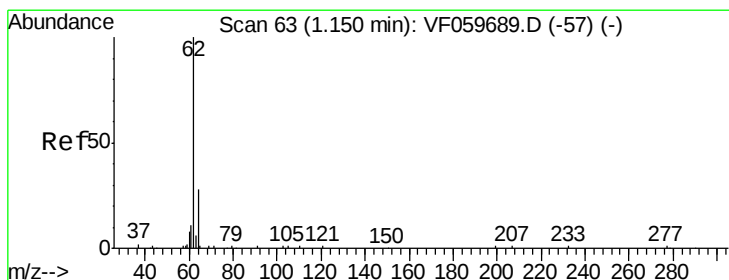
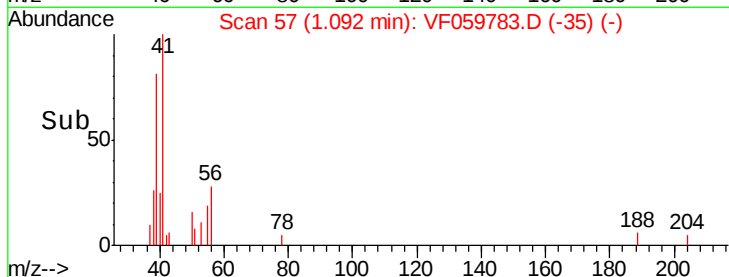
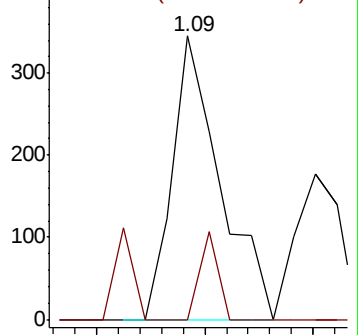
50 100

52 0.0 29.1 43.7#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: Below Cal

RT: 1.19 min Scan# 67

Delta R.T. 0.04 min

Lab File: VF059783.D

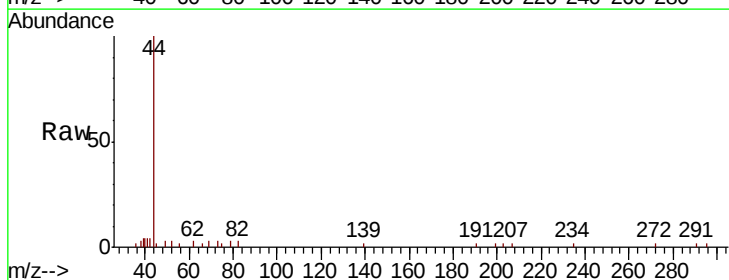
Acq: 2 Aug 2018 5:46

Tgt Ion: 62 Resp: 227

Ion Ratio Lower Upper

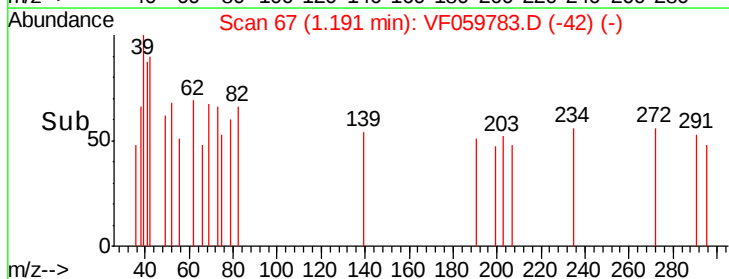
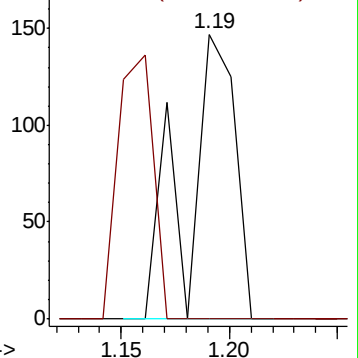
62 100

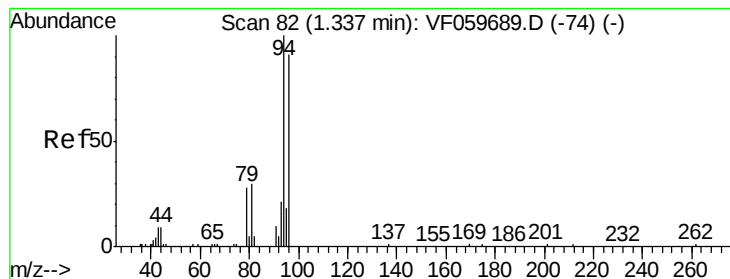
64 0.0 22.6 33.8#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: Below Cal

RT: 1.36 min Scan# 84

Delta R.T. 0.02 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

Instrument :

MSVOA\_F

ClientSampleId :

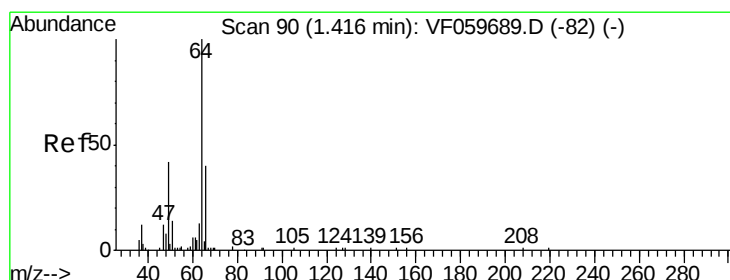
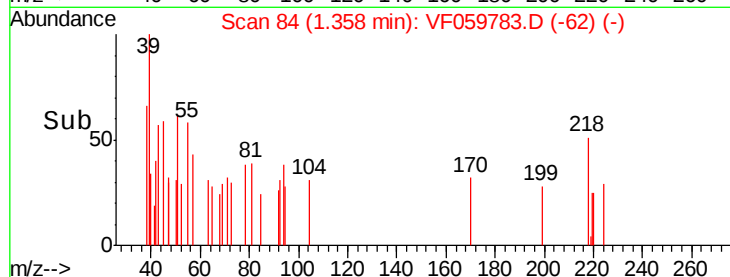
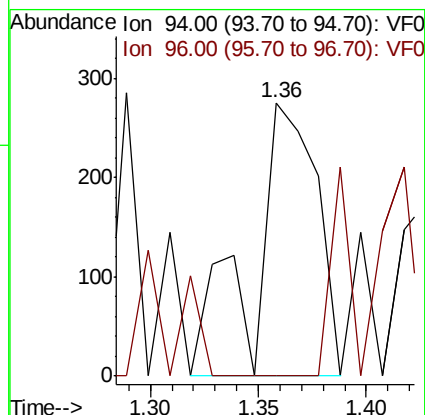
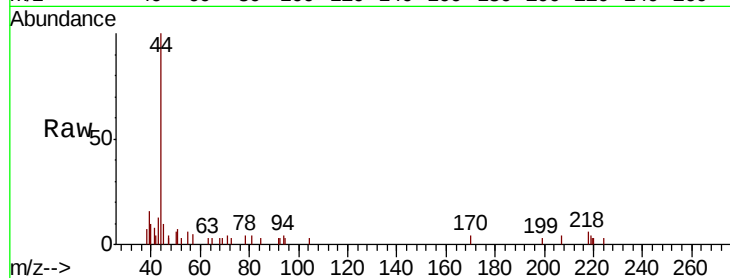
OK-03-073118

Tgt Ion: 94 Resp: 566

Ion Ratio Lower Upper

94 100

96 0.0 73.6 110.4#



#6

Chloroethane

Concen: Below Cal

RT: 1.43 min Scan# 91

Delta R.T. 0.01 min

Lab File: VF059783.D

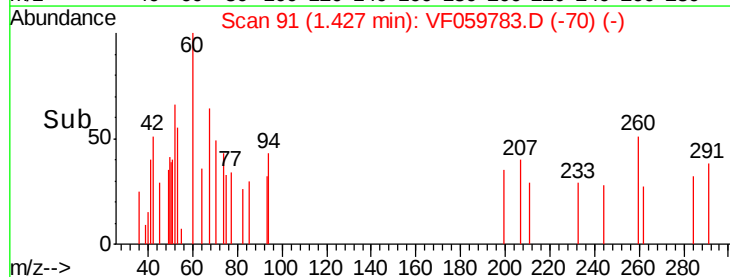
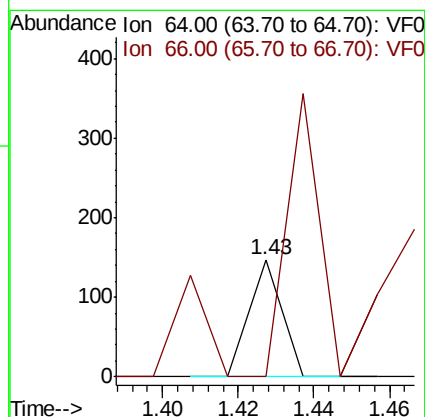
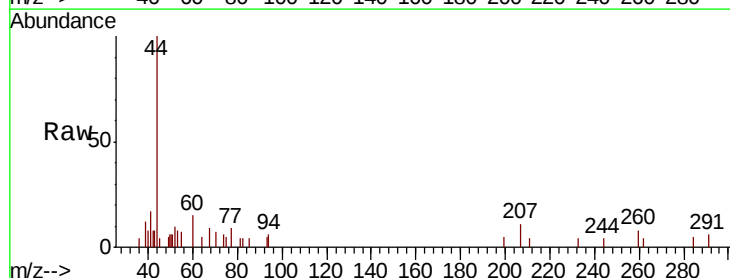
Acq: 2 Aug 2018 5:46

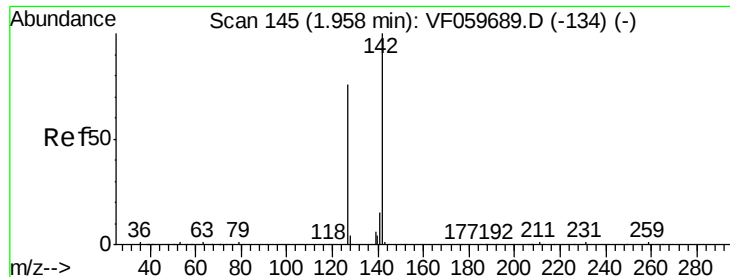
Tgt Ion: 64 Resp: 87

Ion Ratio Lower Upper

64 100

66 0.0 32.6 49.0#

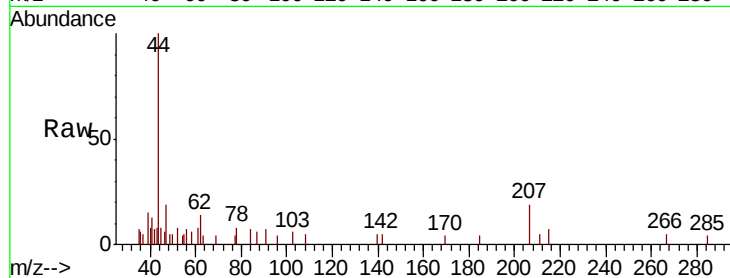




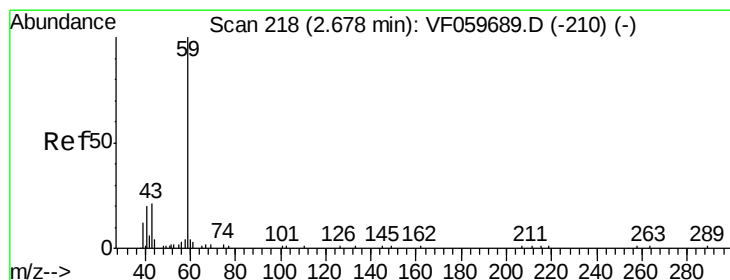
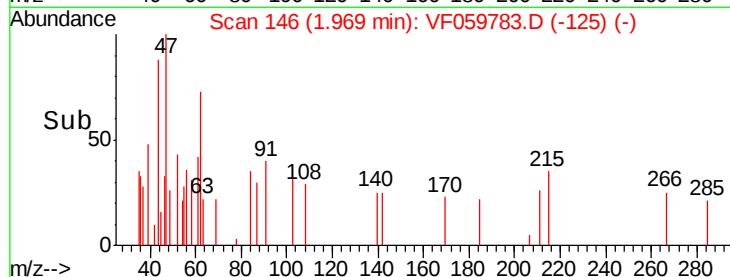
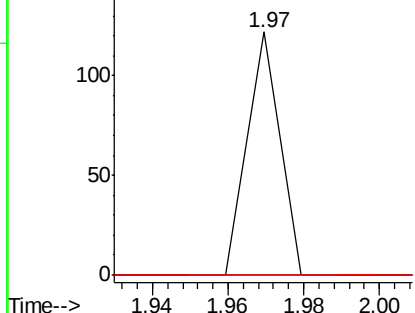
#10  
Methyl Iodide  
Concen: Below Cal  
RT: 1.97 min Scan# 146  
Delta R.T. 0.01 min  
Lab File: VF059783.D  
Acq: 2 Aug 2018 5:46

Instrument :  
MSVOA\_F  
ClientSampleId :  
OK-03-073118

Tgt Ion: 142 Resp: 72  
Ion Ratio Lower Upper  
142 100  
127 0.0 60.6 91.0#  
141 0.0 12.0 18.0#

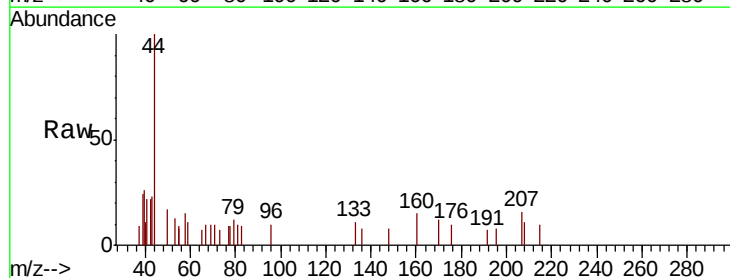


Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 141.00 (140.70 to 141.70): V

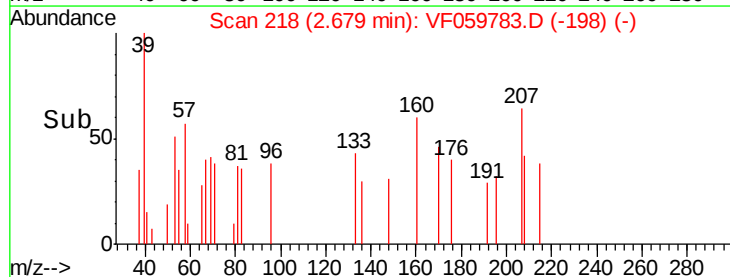
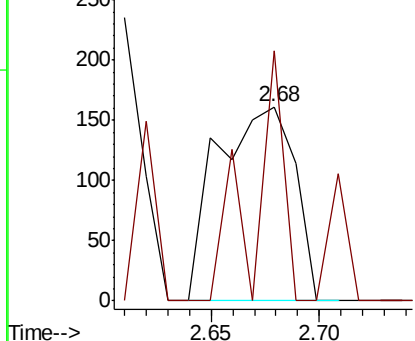


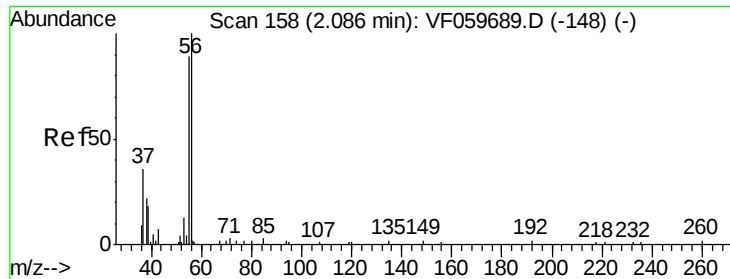
#11  
Tert butyl alcohol  
Concen: 1.232 ug/l  
RT: 2.68 min Scan# 218  
Delta R.T. 0.00 min  
Lab File: VF059783.D  
Acq: 2 Aug 2018 5:46

Tgt Ion: 59 Resp: 400  
Ion Ratio Lower Upper  
59 100  
57 129.2 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0  
Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 17.335 ug/l

RT: 2.11 min Scan# 160

Delta R.T. 0.02 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

Instrument :

MSVOA\_F

ClientSampleId :

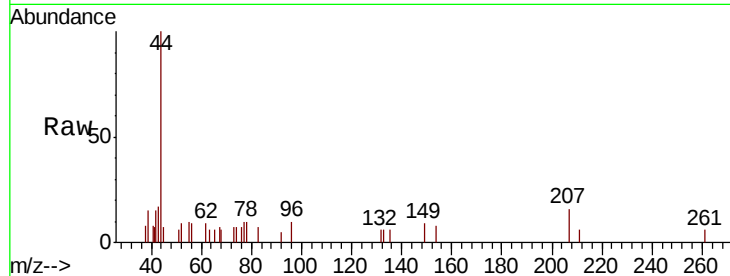
OK-03-073118

Tgt Ion: 56 Resp: 106

Ion Ratio Lower Upper

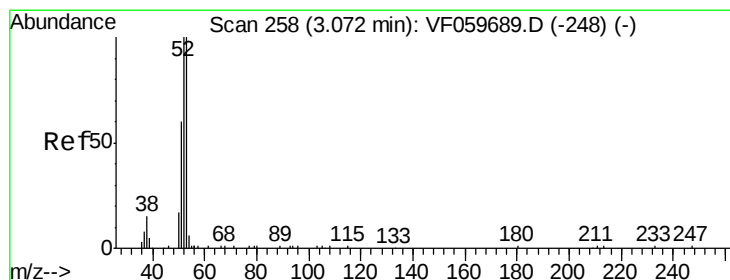
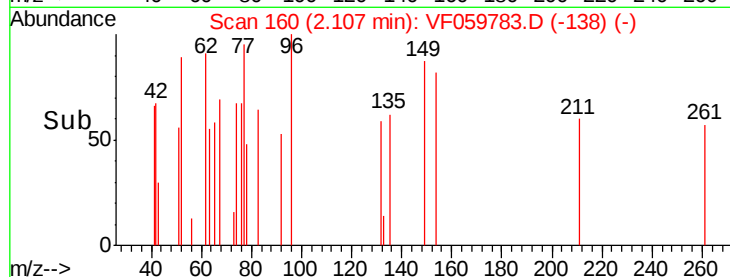
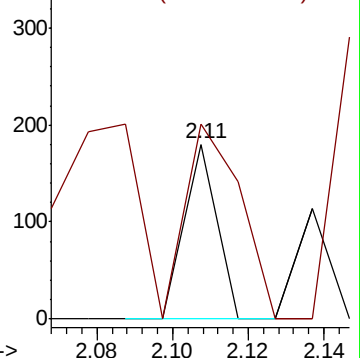
56 100

55 111.7 73.2 109.8#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 1.198 ug/l

RT: 3.04 min Scan# 255

Delta R.T. -0.03 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

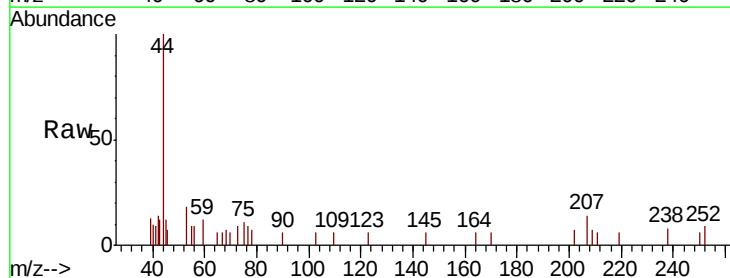
Tgt Ion: 53 Resp: 271

Ion Ratio Lower Upper

53 100

52 0.0 80.3 120.5#

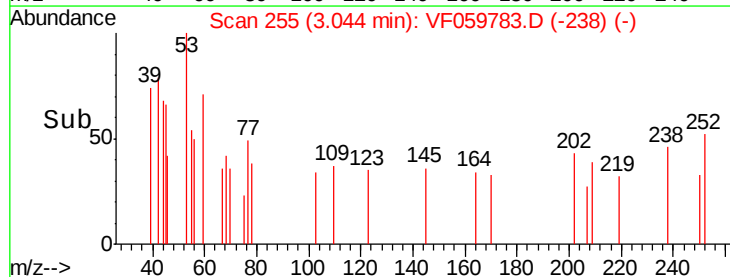
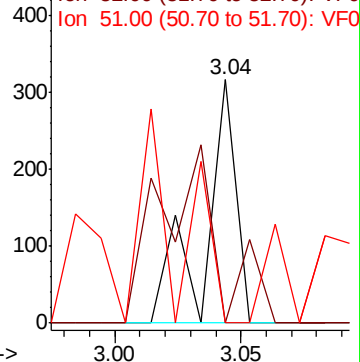
51 0.0 49.4 74.0#

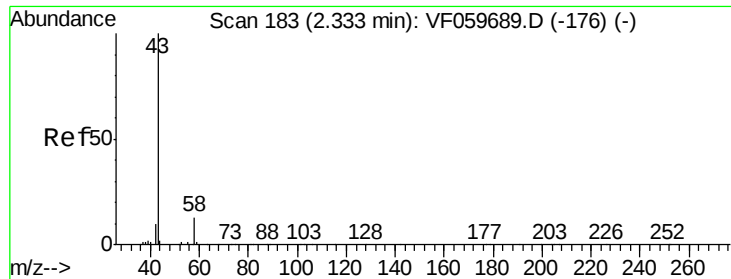


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

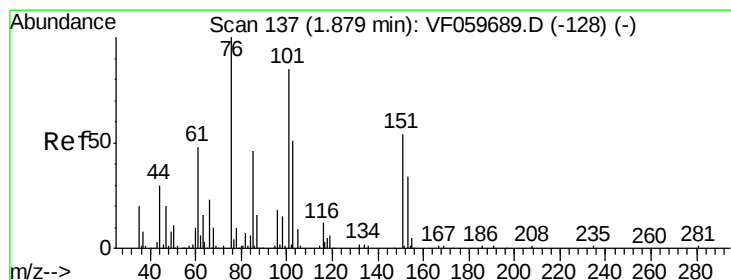
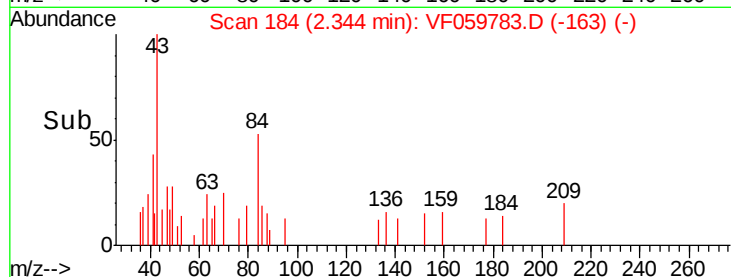
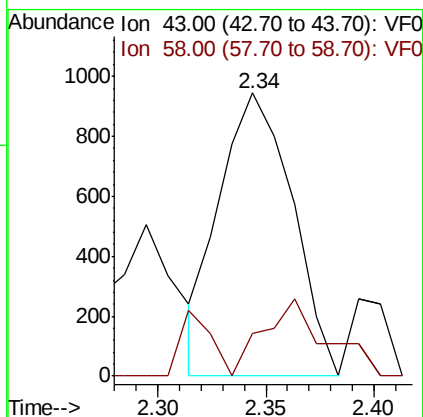
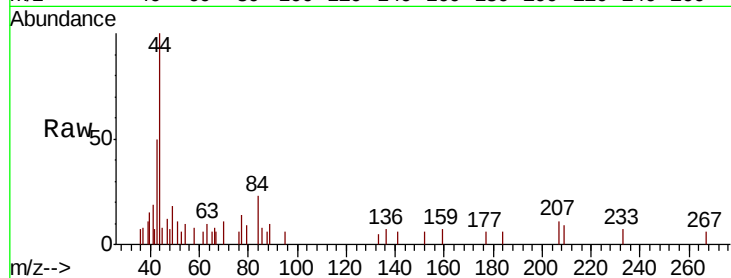




#16  
Acetone  
Concen: 3.341 ug/l  
RT: 2.34 min Scan# 184  
Delta R.T. 0.01 min  
Lab File: VF059783.D  
Acq: 2 Aug 2018 5:46

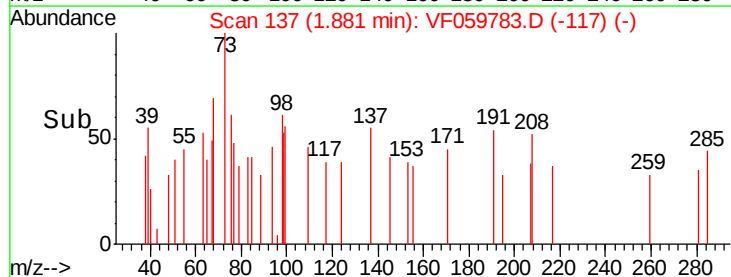
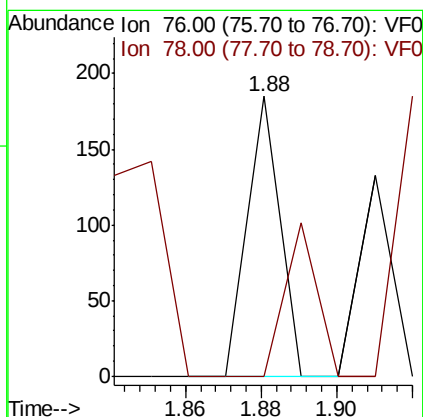
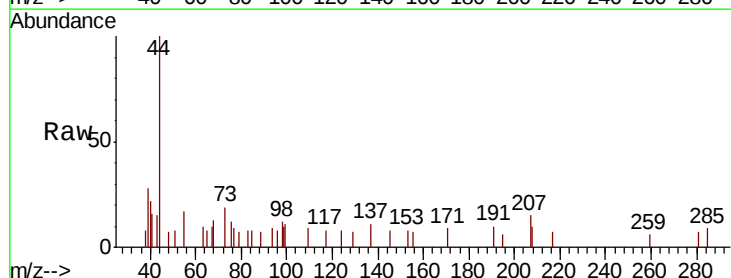
Instrument :  
MSVOA\_F  
ClientSampleId :  
OK-03-073118

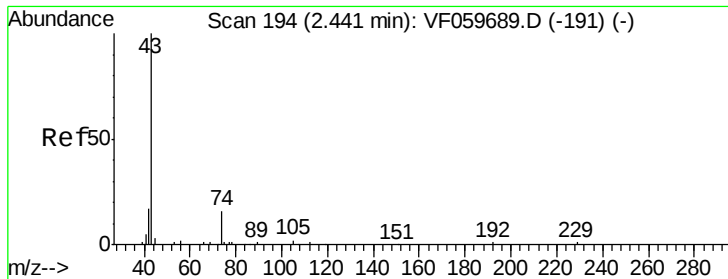
Tgt Ion: 43 Resp: 2221  
Ion Ratio Lower Upper  
43 100  
58 15.1 10.1 15.1#



#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 1.88 min Scan# 137  
Delta R.T. 0.00 min  
Lab File: VF059783.D  
Acq: 2 Aug 2018 5:46

Tgt Ion: 76 Resp: 109  
Ion Ratio Lower Upper  
76 100  
78 0.0 8.9 13.3#

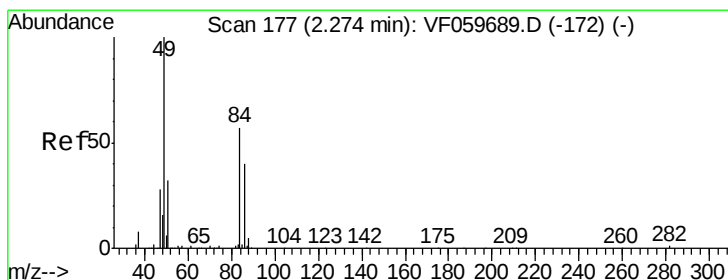
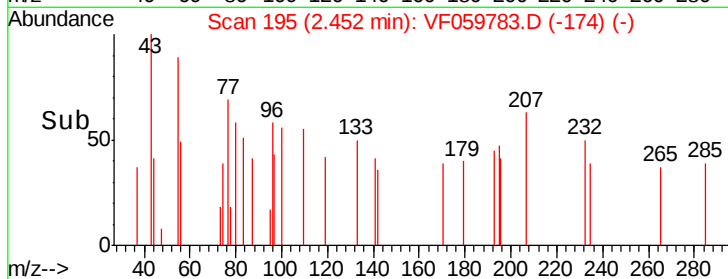
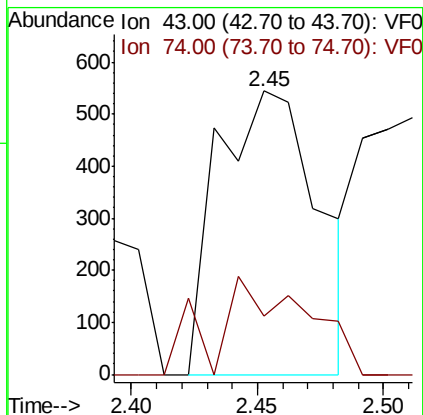
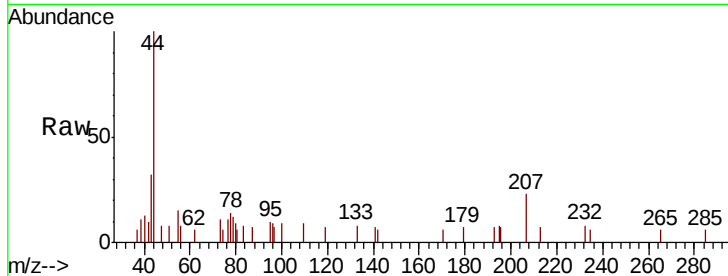




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 2.45 min Scan# 195  
Delta R.T. 0.01 min  
Lab File: VF059783.D  
Acq: 2 Aug 2018 5:46

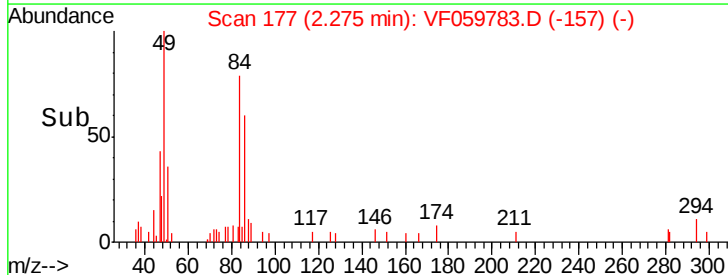
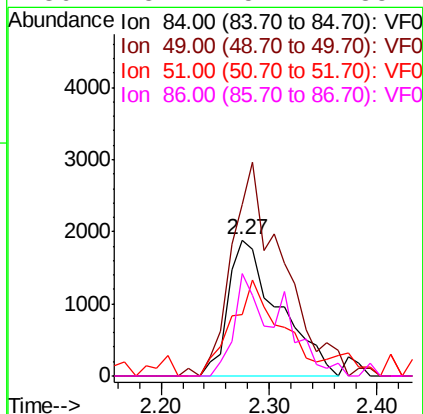
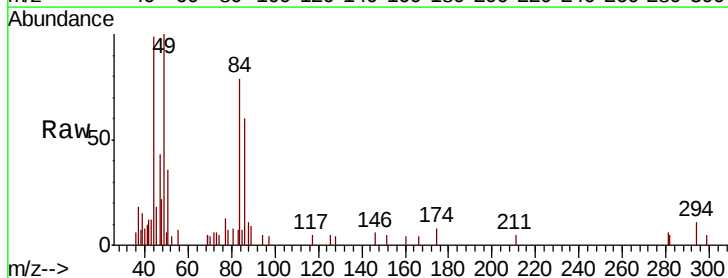
Instrument :  
MSVOA\_F  
ClientSampleId :  
OK-03-073118

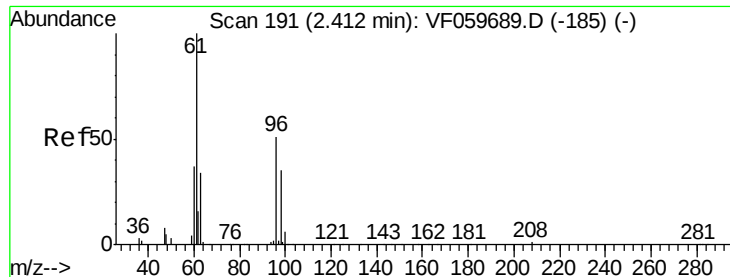
Tgt Ion: 43 Resp: 1517  
Ion Ratio Lower Upper  
43 100  
74 20.4 11.8 17.6#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.27 min Scan# 177  
Delta R.T. 0.00 min  
Lab File: VF059783.D  
Acq: 2 Aug 2018 5:46

Tgt Ion: 84 Resp: 6118  
Ion Ratio Lower Upper  
84 100  
49 126.6 142.2 213.4#  
51 45.7 46.2 69.2#  
86 75.7 57.1 85.7





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 2.39 min Scan# 189

Delta R.T. -0.02 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

Instrument :

MSVOA\_F

ClientSampleId :

OK-03-073118

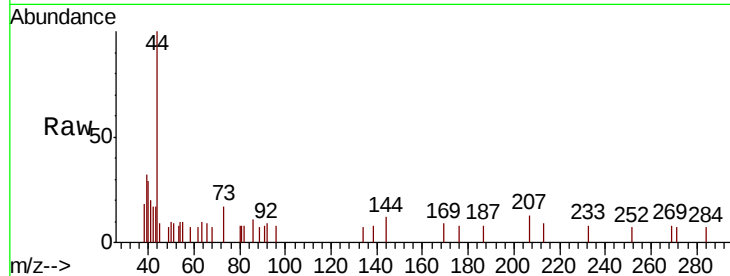
Tgt Ion: 96 Resp: 75

Ion Ratio Lower Upper

96 100

61 81.7 157.4 236.0#

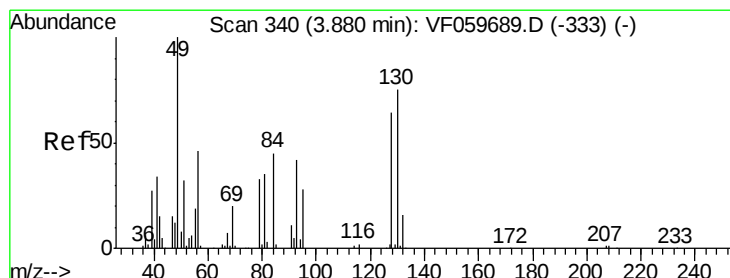
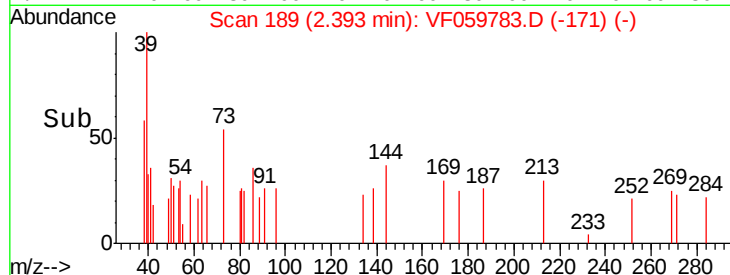
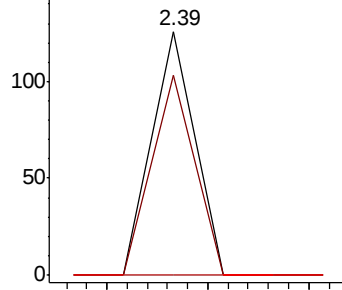
98 0.0 55.0 82.4#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#28

Bromochloromethane

Concen: Below Cal

RT: 4.03 min Scan# 355

Delta R.T. 0.15 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

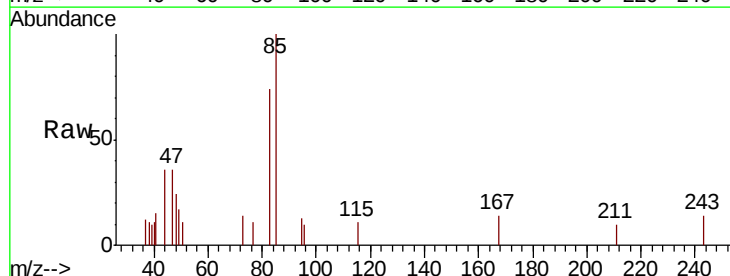
Tgt Ion: 49 Resp: 172

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.8

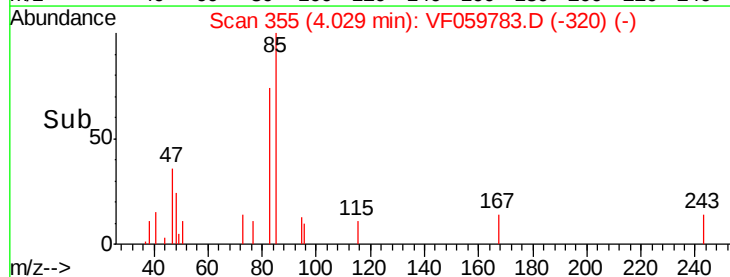
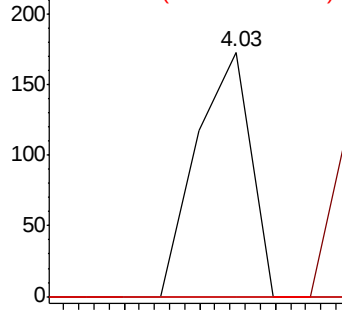
130 0.0 59.6 89.4#

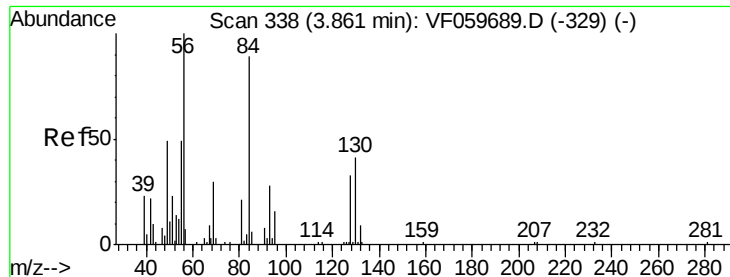


Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V

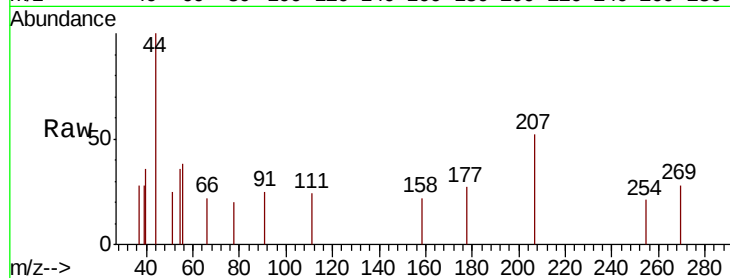




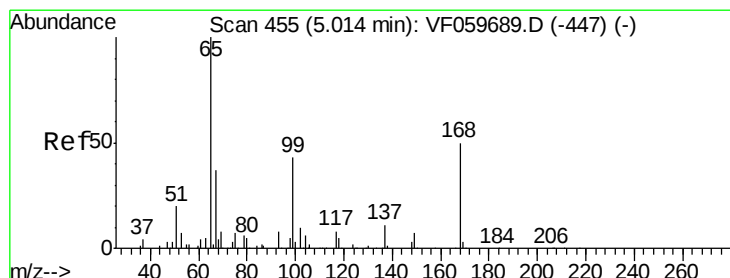
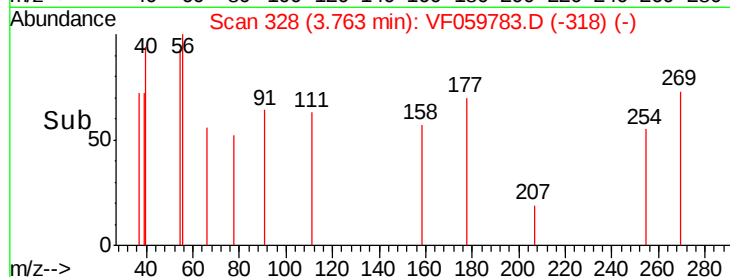
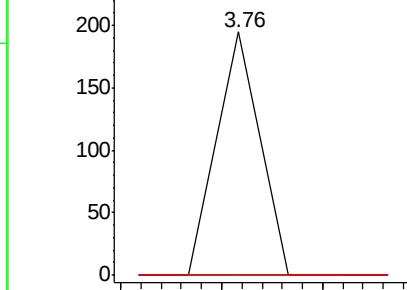
#31  
Cyclohexane  
Concen: Below Cal  
RT: 3.76 min Scan# 328  
Delta R.T. -0.10 min  
Lab File: VF059783.D  
Acq: 2 Aug 2018 5:46

Instrument :  
MSVOA\_F  
ClientSampleId :  
OK-03-073118

Tgt Ion: 56 Resp: 115  
Ion Ratio Lower Upper  
56 100  
69 0.0 23.7 35.5#  
84 0.0 71.1 106.7#

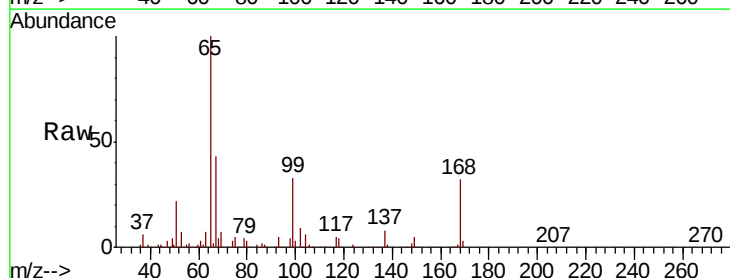


Abundance Ion 56.00 (55.70 to 56.70): VF0  
Ion 69.00 (68.70 to 69.70): VF0  
Ion 84.00 (83.70 to 84.70): VF0

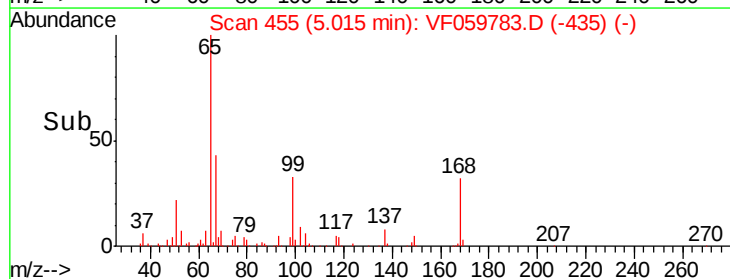
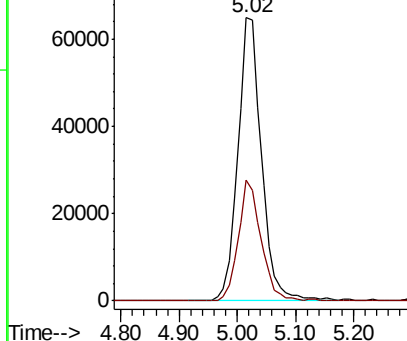


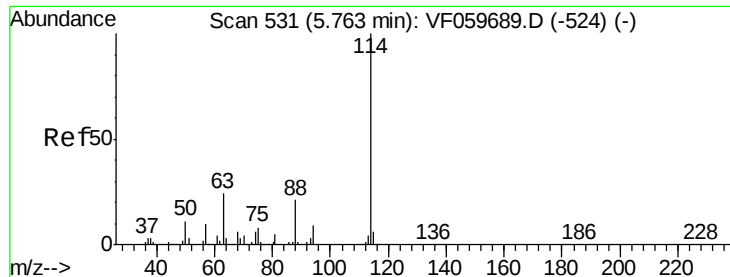
#33  
1,2-Dichloroethane-d4  
Concen: 49.662 ug/l  
RT: 5.02 min Scan# 455  
Delta R.T. 0.00 min  
Lab File: VF059783.D  
Acq: 2 Aug 2018 5:46

Tgt Ion: 65 Resp: 183524  
Ion Ratio Lower Upper  
65 100  
67 42.8 0.0 84.6



Abundance Ion 65.00 (64.70 to 65.70): VF0  
Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 531

Delta R.T. 0.00 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

Instrument :

MSVOA\_F

ClientSampleId :

OK-03-073118

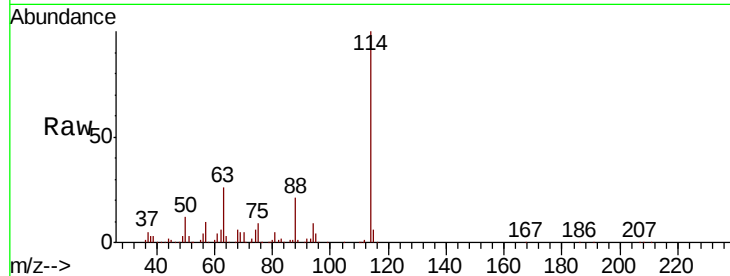
Tgt Ion:114 Resp: 304967

Ion Ratio Lower Upper

114 100

63 26.2 0.0 47.4

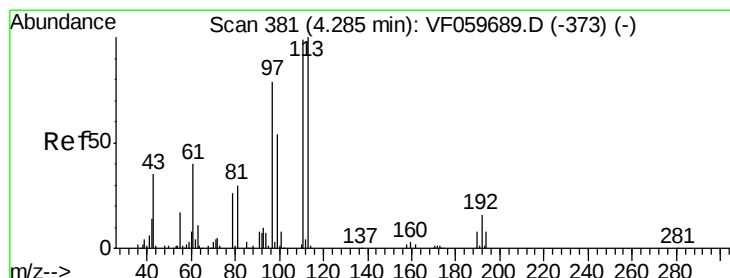
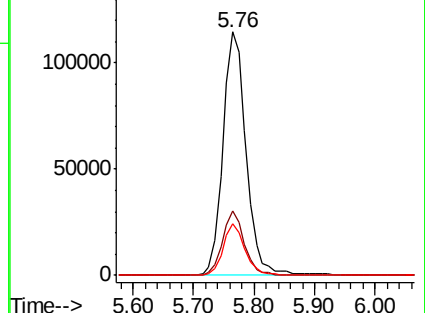
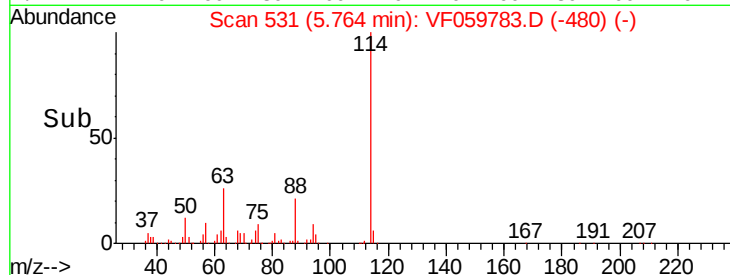
88 21.0 0.0 41.2



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



#35

Dibromofluoromethane

Concen: 46.688 ug/l

RT: 4.30 min Scan# 382

Delta R.T. 0.01 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

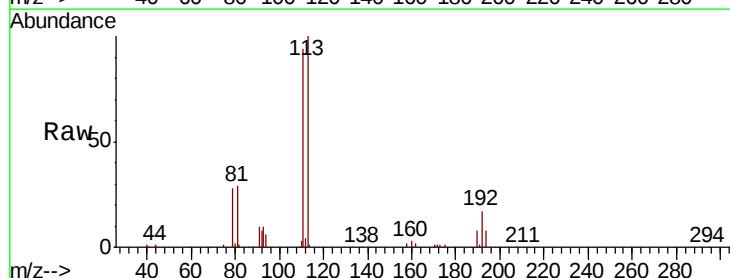
Tgt Ion:113 Resp: 147887

Ion Ratio Lower Upper

113 100

111 94.3 79.0 118.4

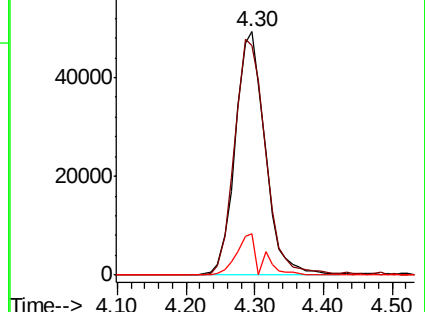
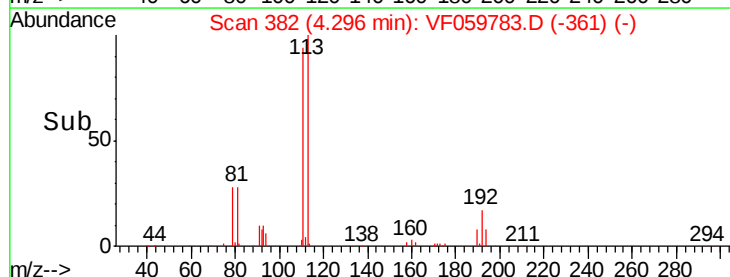
192 17.2 13.2 19.8

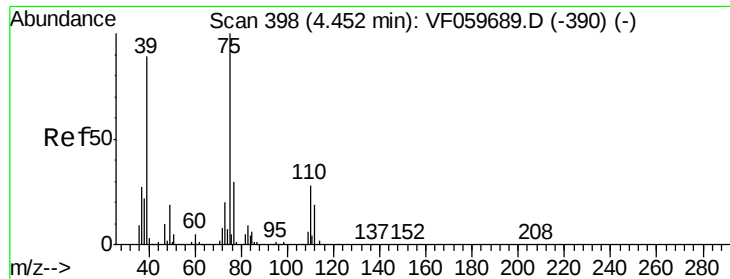


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

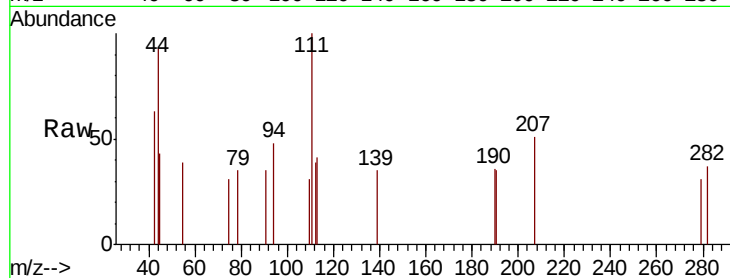




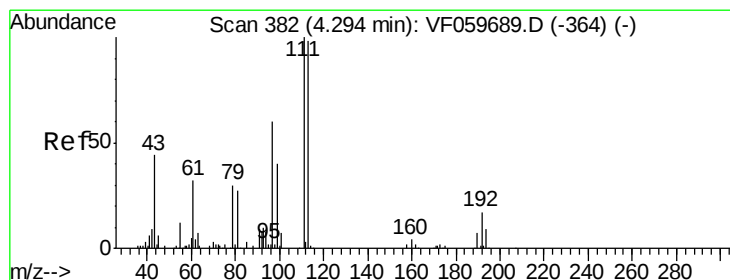
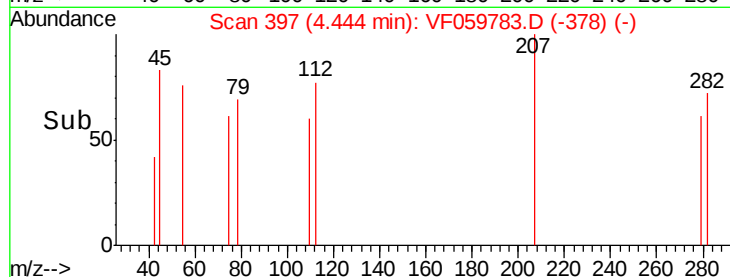
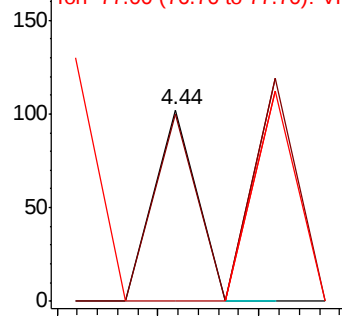
#36  
 1,1-Dichloropropene  
 Concen: Below Cal  
 RT: 4.44 min Scan# 397  
 Delta R.T. -0.01 min  
 Lab File: VF059783.D  
 Acq: 2 Aug 2018 5:46

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 OK-03-073118

Tgt Ion: 75 Resp: 60  
 Ion Ratio Lower Upper  
 75 100  
 110 98.0 14.0 41.9#  
 77 0.0 24.2 36.2#

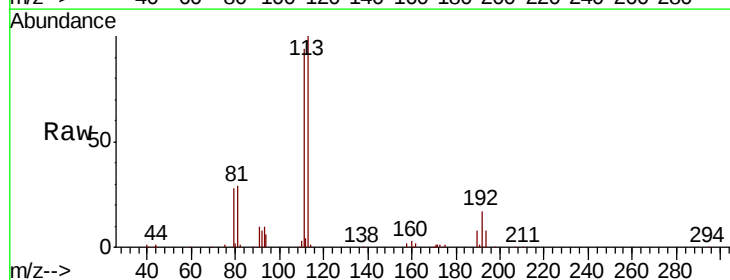


Abundance Ion 75.00 (74.70 to 75.70): VF0  
 Ion 110.00 (109.70 to 110.70): V  
 Ion 77.00 (76.70 to 77.70): VF0

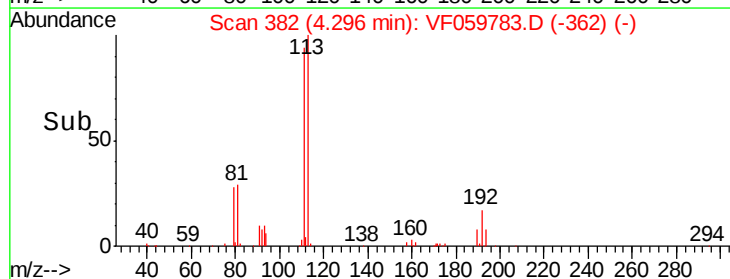
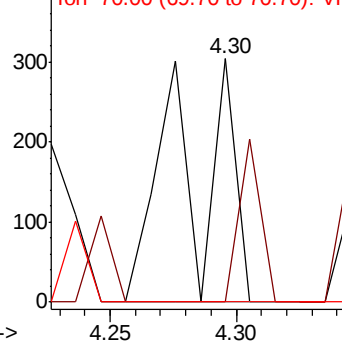


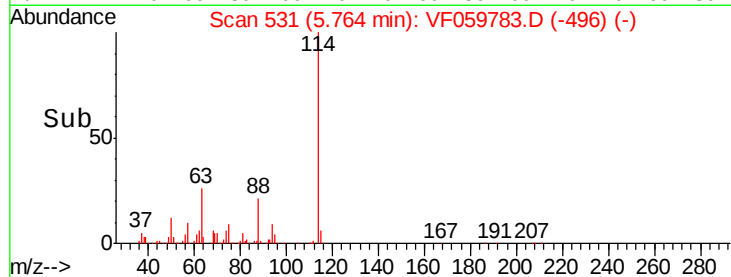
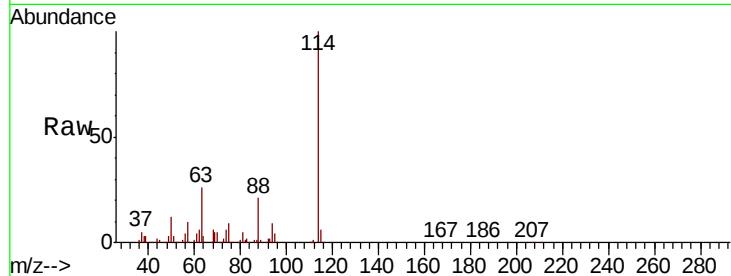
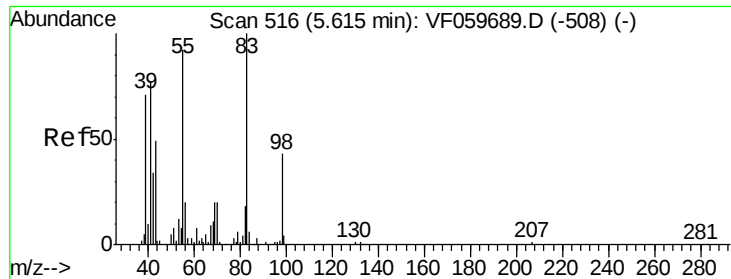
#37  
 Ethyl Acetate  
 Concen: Below Cal  
 RT: 4.30 min Scan# 382  
 Delta R.T. 0.00 min  
 Lab File: VF059783.D  
 Acq: 2 Aug 2018 5:46

Tgt Ion: 43 Resp: 438  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 58.2 87.2#  
 70 0.0 6.0 9.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0  
 Ion 61.00 (60.70 to 61.70): VF0  
 Ion 70.00 (69.70 to 70.70): VF0





#39

Methylcyclohexane

Concen: Below Cal

RT: 5.76 min Scan# 531

Delta R.T. 0.15 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

Instrument :

MSVOA\_F

ClientSampleId :

OK-03-073118

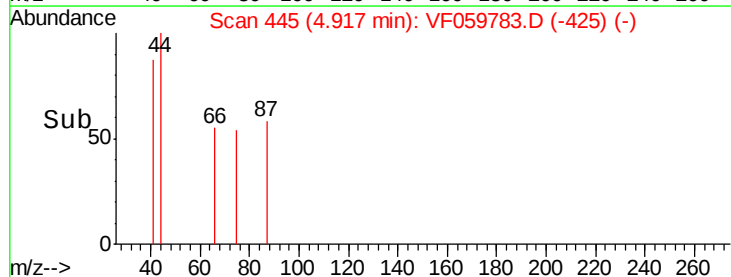
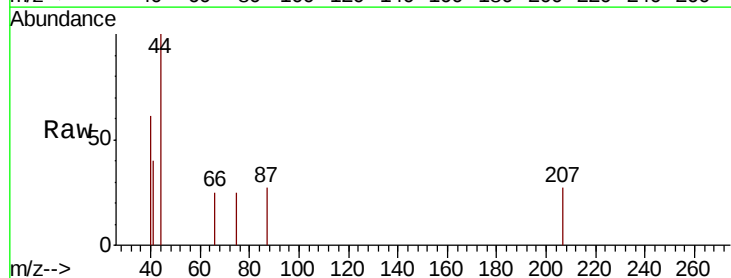
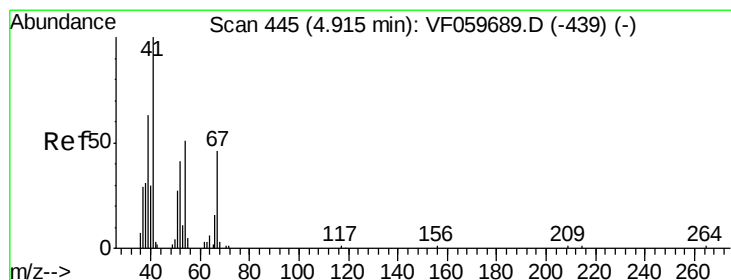
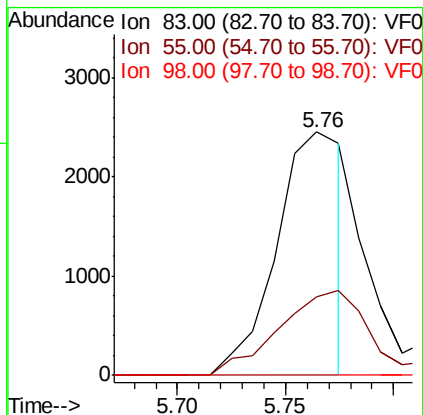
Tgt Ion: 83 Resp: 5234

Ion Ratio Lower Upper

83 100

55 32.4 73.4 110.2#

98 0.0 34.2 51.4#



#41

Methacrylonitrile

Concen: Below Cal

RT: 4.92 min Scan# 445

Delta R.T. 0.00 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

Tgt Ion: 41 Resp: 108

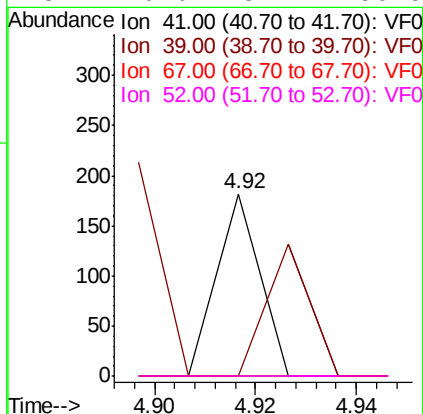
Ion Ratio Lower Upper

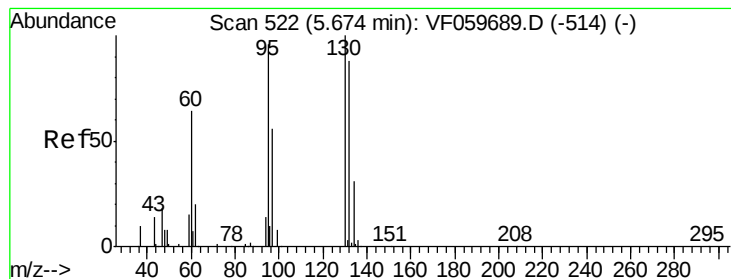
41 100

39 0.0 55.2 82.8#

67 0.0 36.2 54.2#

52 0.0 37.7 56.5#





#44

Trichloroethene

Concen: Below Cal

RT: 5.55 min Scan# 509

Delta R.T. -0.13 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

Instrument :

MSVOA\_F

ClientSampleId :

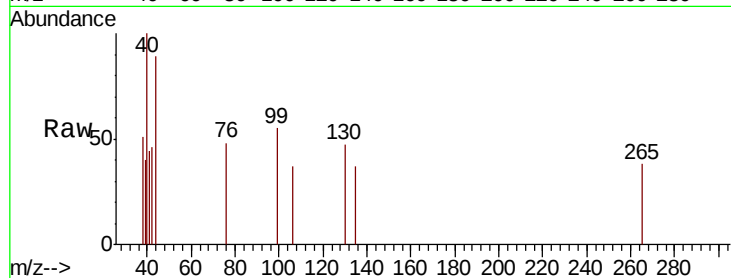
OK-03-073118

Tgt Ion:130 Resp: 76

Ion Ratio Lower Upper

130 100

95 0.0 0.0 191.0



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0

5.55

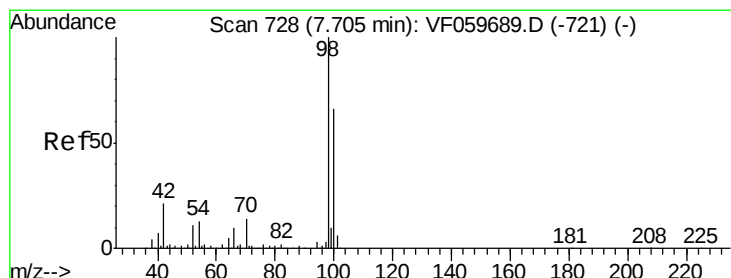
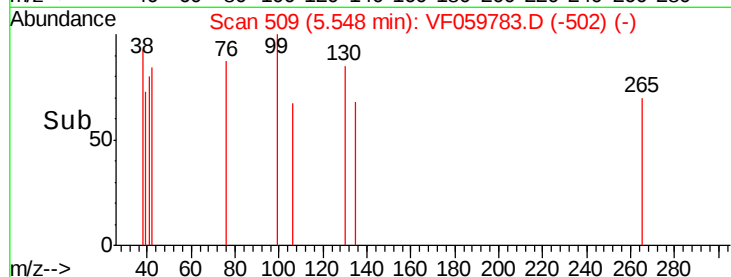
100

50

0

5.52 5.54 5.56 5.58

Time-->



#50

Toluene-d8

Concen: 31.838 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.00 min

Lab File: VF059783.D

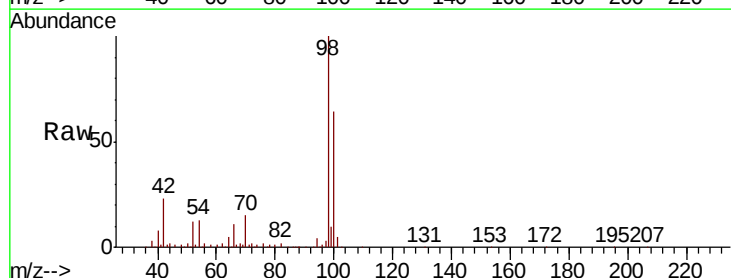
Acq: 2 Aug 2018 5:46

Tgt Ion: 98 Resp: 235174

Ion Ratio Lower Upper

98 100

100 64.0 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.71

100000

80000

60000

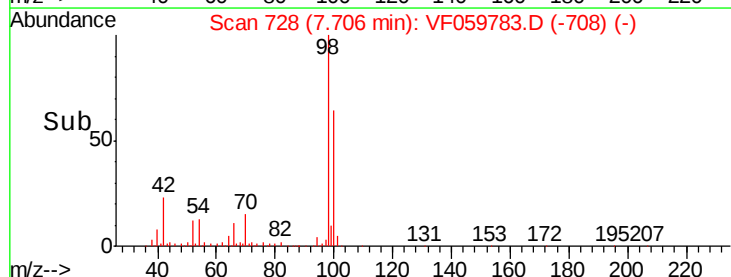
40000

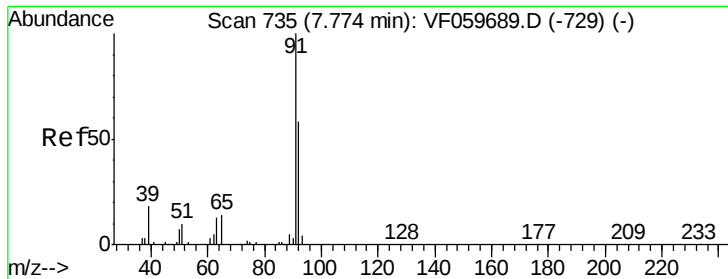
20000

0

7.60 7.70 7.80 7.90

Time-->





#52

Toluene

Concen: Below Cal

RT: 7.79 min Scan# 736

Delta R.T. 0.01 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

Instrument :

MSVOA\_F

ClientSampleId :

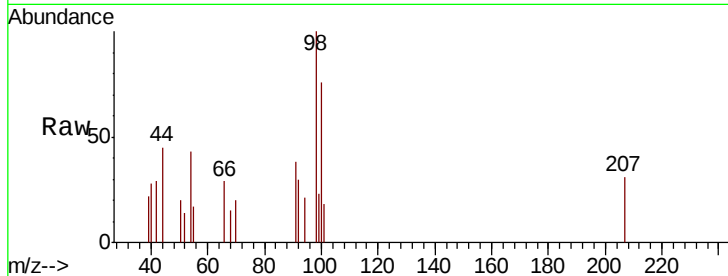
OK-03-073118

Tgt Ion: 92 Resp: 373

Ion Ratio Lower Upper

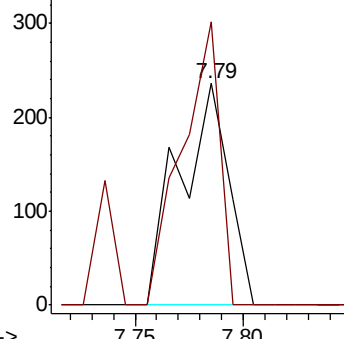
92 100

91 128.0 139.0 208.4#

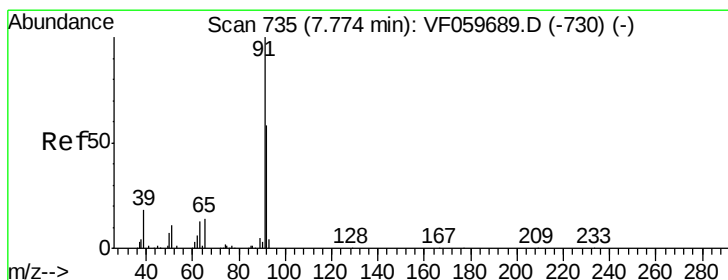
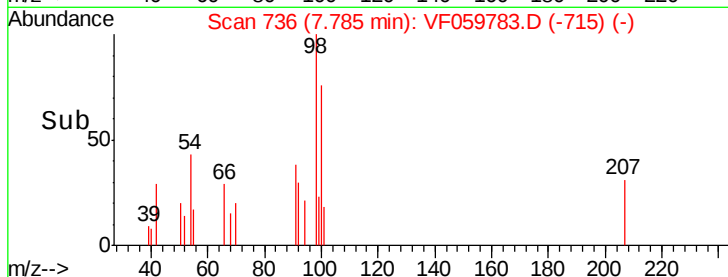


Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 1.230 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.01 min

Lab File: VF059783.D

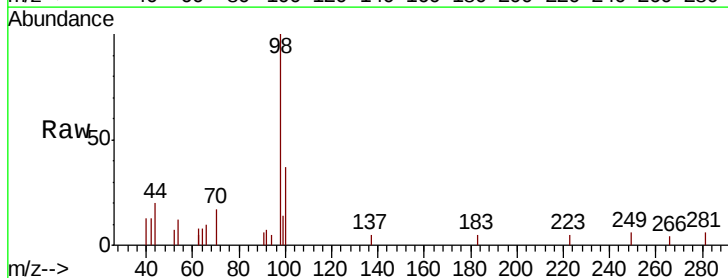
Acq: 2 Aug 2018 5:46

Tgt Ion: 63 Resp: 247

Ion Ratio Lower Upper

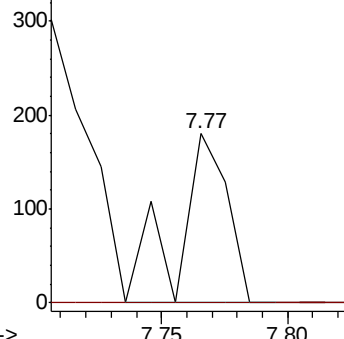
63 100

106 0.0 0.0 0.0

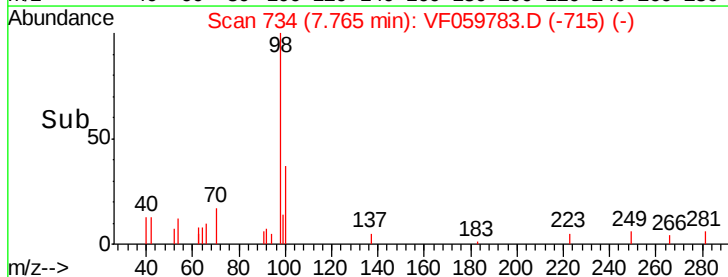


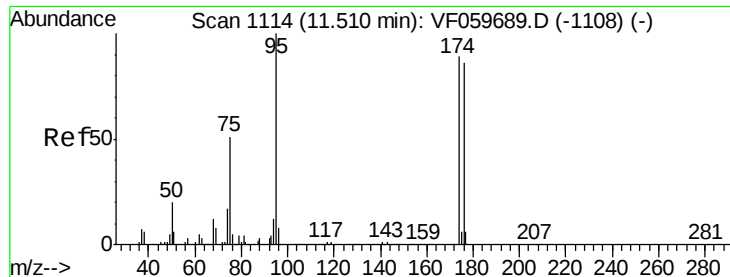
Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



Time-->





#62

4-Bromofluorobenzene

Concen: 27.361 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

Instrument :

MSVOA\_F

ClientSampleId :

OK-03-073118

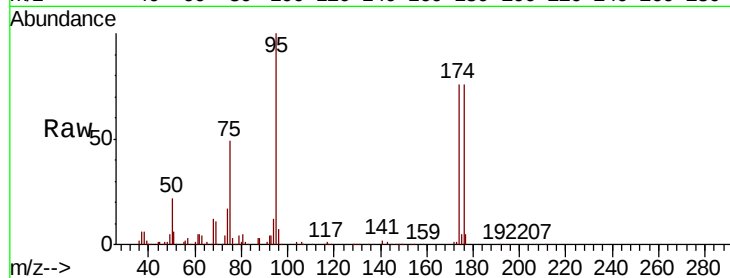
Tgt Ion: 95 Resp: 111885

Ion Ratio Lower Upper

95 100

174 76.3 0.0 178.4

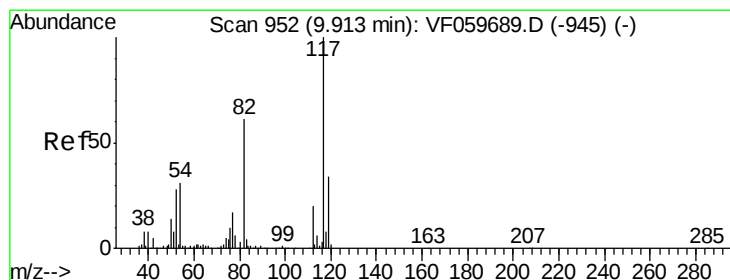
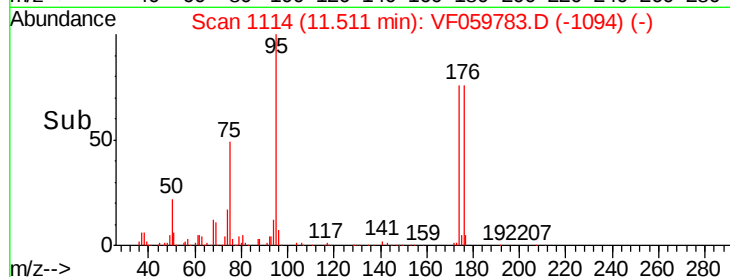
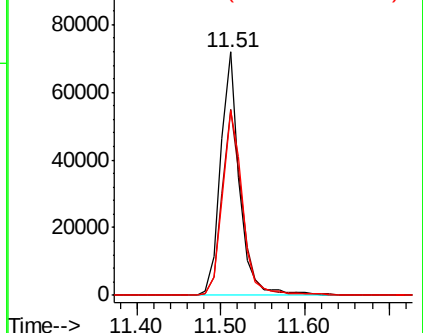
176 76.1 0.0 173.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 952

Delta R.T. 0.00 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

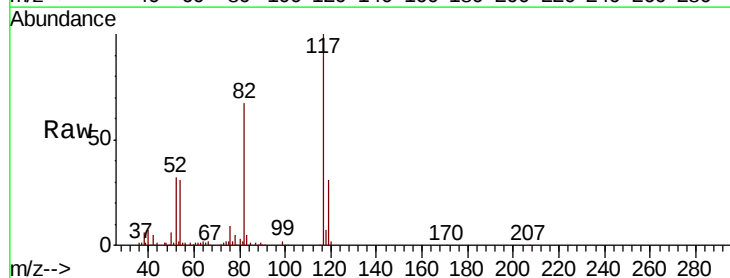
Tgt Ion: 117 Resp: 246171

Ion Ratio Lower Upper

117 100

82 66.7 49.0 73.4

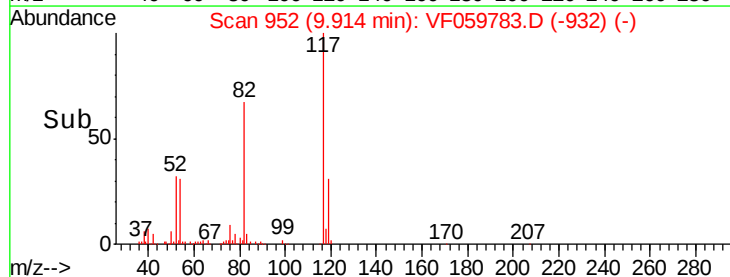
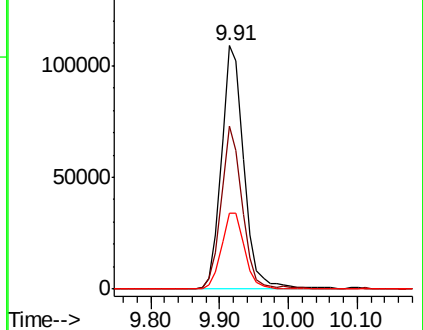
119 31.0 27.3 40.9

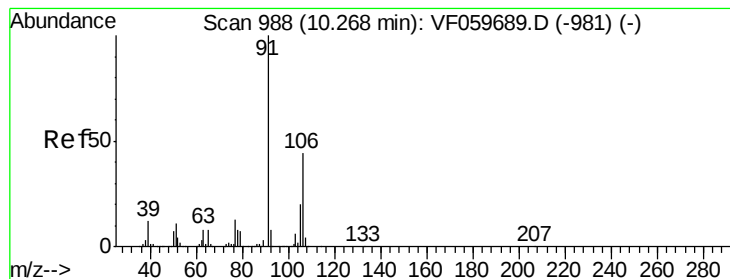


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#68

m/p-Xylenes

Concen: Below Cal

RT: 10.27 min Scan# 988

Delta R.T. 0.00 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

Instrument :

MSVOA\_F

ClientSampleId :

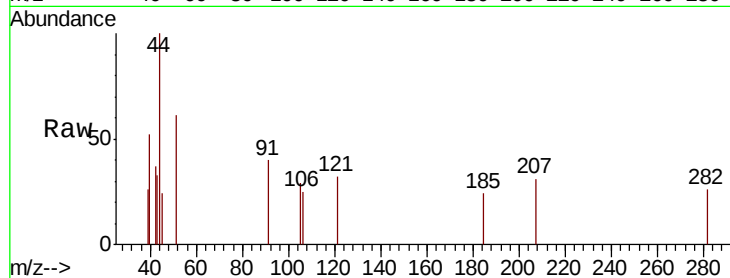
OK-03-073118

Tgt Ion:106 Resp: 66

Ion Ratio Lower Upper

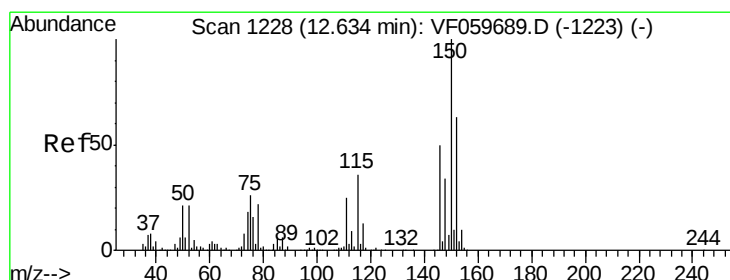
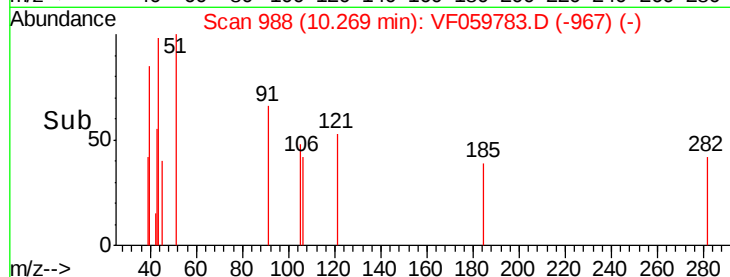
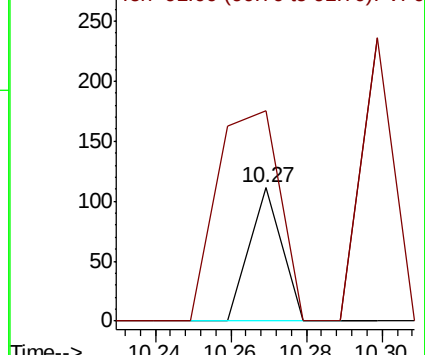
106 100

91 157.7 181.7 272.5#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

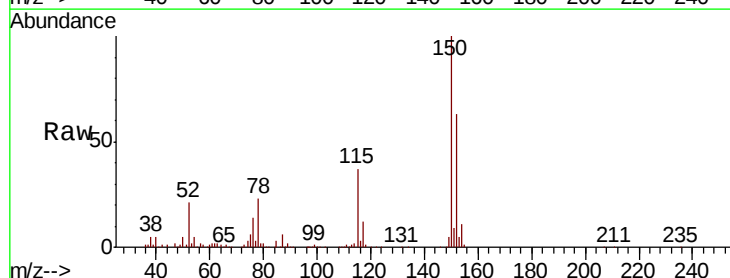
Tgt Ion:152 Resp: 110861

Ion Ratio Lower Upper

152 100

115 59.2 28.2 84.6

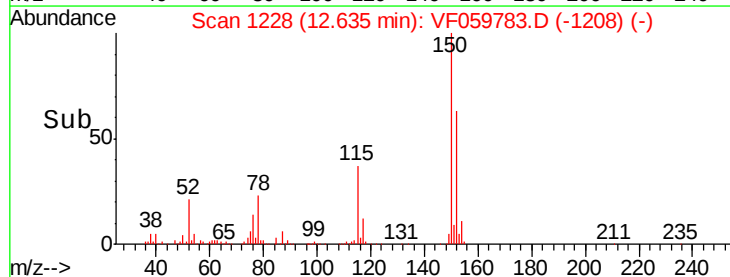
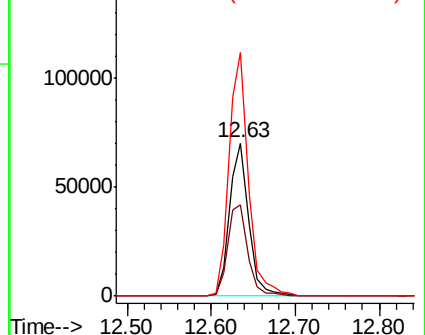
150 158.8 0.0 316.2

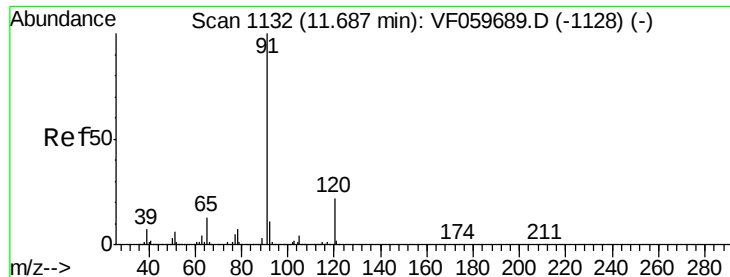


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#78

n-propylbenzene

Concen: Below Cal

RT: 11.69 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

Instrument :

MSVOA\_F

ClientSampleId :

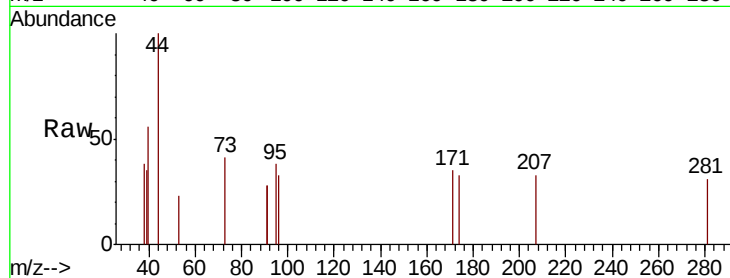
OK-03-073118

Tgt Ion: 91 Resp: 274

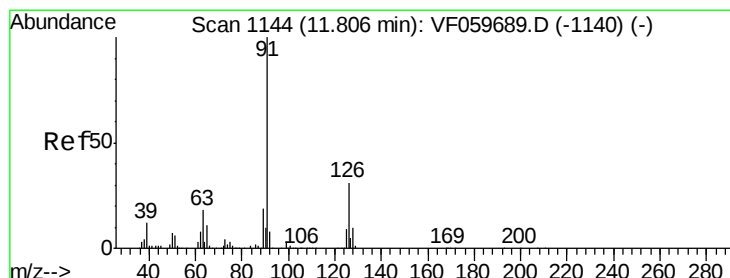
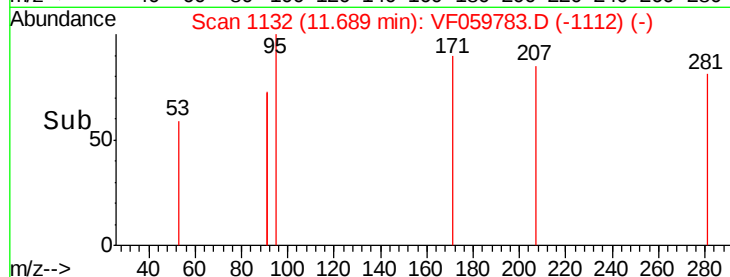
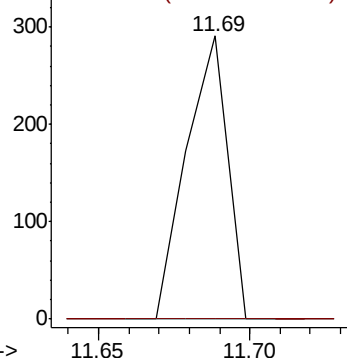
Ion Ratio Lower Upper

91 100

120 0.0 11.0 33.0#



Abundance Ion 91.00 (90.70 to 91.70): VF0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.82 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VF059783.D

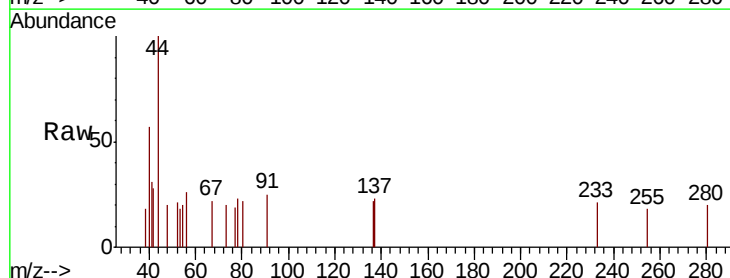
Acq: 2 Aug 2018 5:46

Tgt Ion: 91 Resp: 146

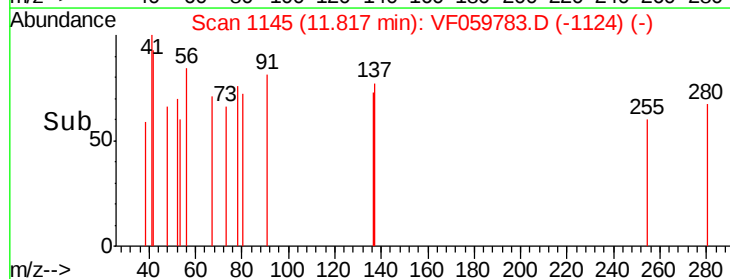
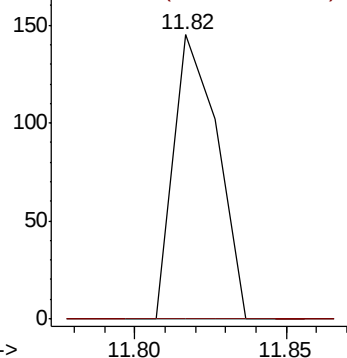
Ion Ratio Lower Upper

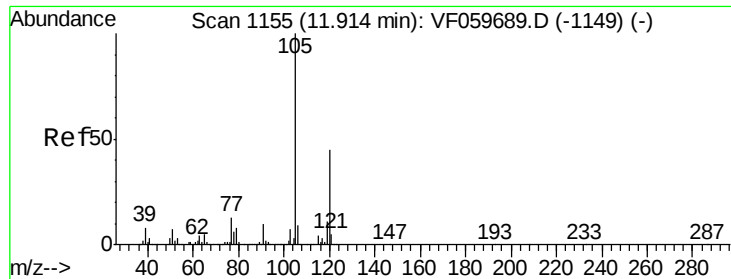
91 100

126 0.0 15.4 46.2#



Abundance Ion 91.00 (90.70 to 91.70): VF0

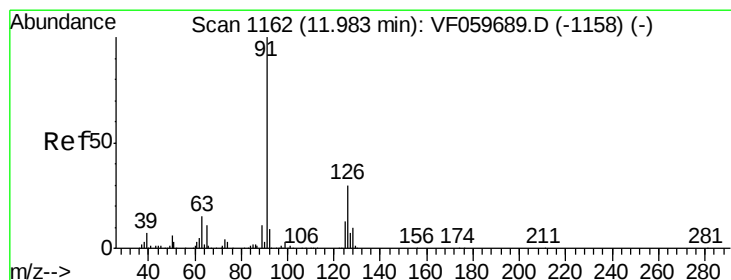
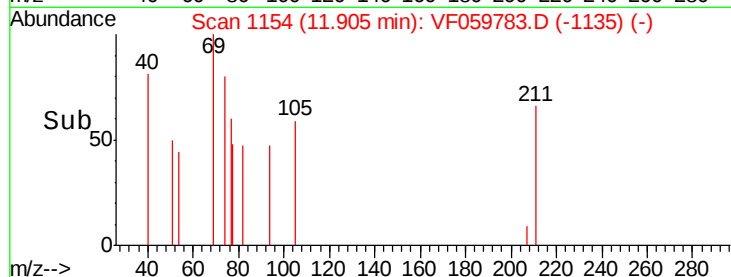
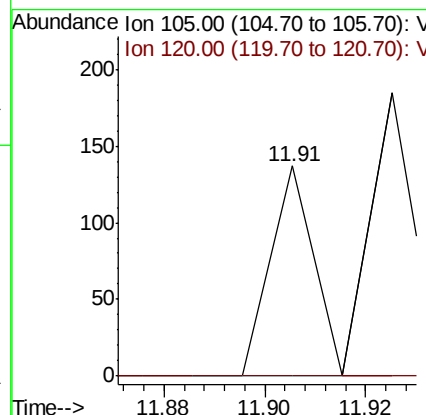
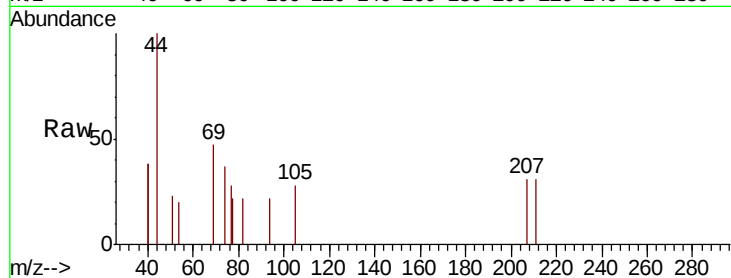




#80  
 1,3,5-Trimethylbenzene  
 Concen: Below Cal  
 RT: 11.91 min Scan# 1154  
 Delta R.T. -0.01 min  
 Lab File: VF059783.D  
 Acq: 2 Aug 2018 5:46

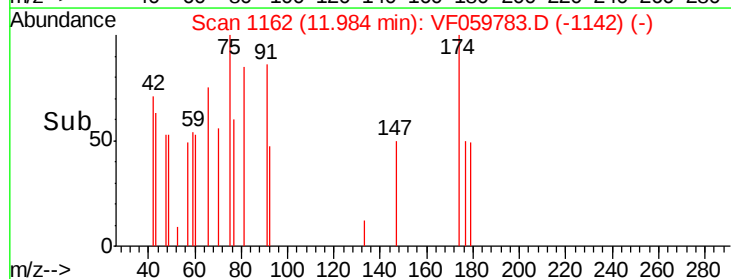
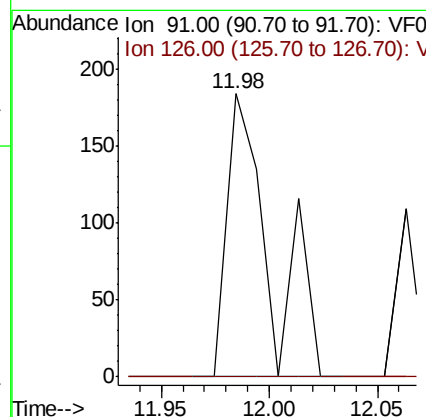
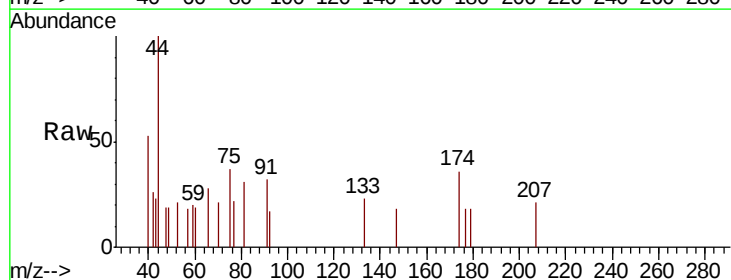
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 OK-03-073118

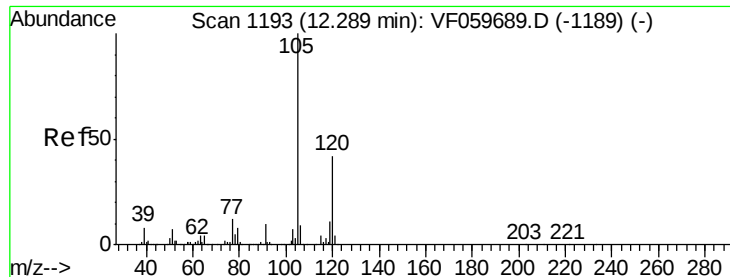
Tgt Ion: 105 Resp: 81  
 Ion Ratio Lower Upper  
 105 100  
 120 0.0 22.7 68.0#



#82  
 4-Chlorotoluene  
 Concen: Below Cal  
 RT: 11.98 min Scan# 1162  
 Delta R.T. 0.00 min  
 Lab File: VF059783.D  
 Acq: 2 Aug 2018 5:46

Tgt Ion: 91 Resp: 257  
 Ion Ratio Lower Upper  
 91 100  
 126 0.0 15.2 45.6#

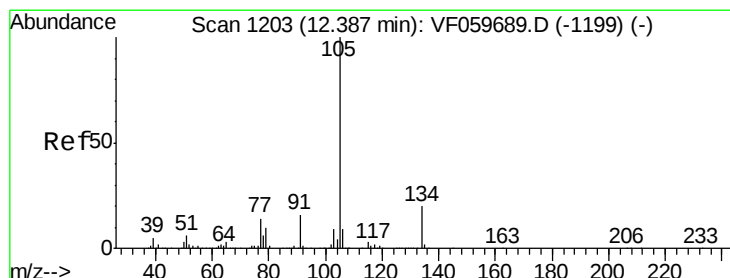
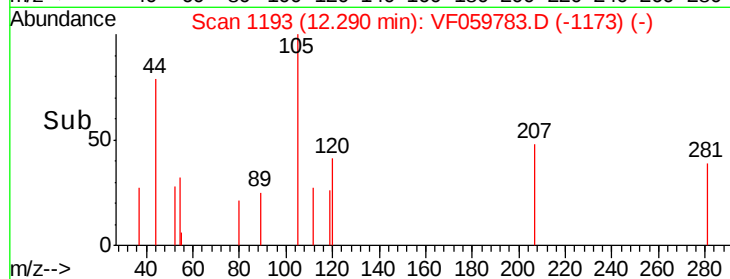
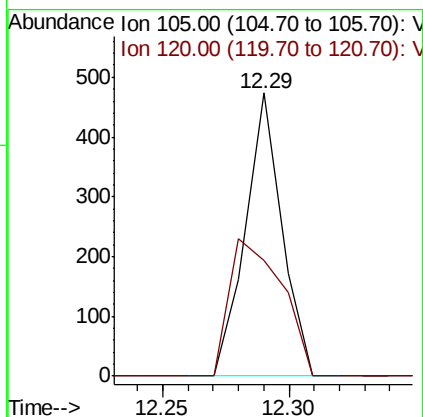
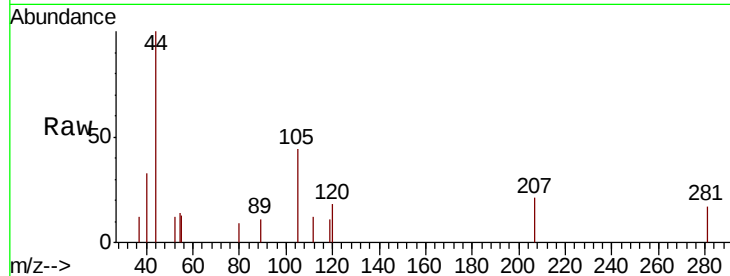




#84  
 1,2,4-Trimethylbenzene  
 Concen: Below Cal  
 RT: 12.29 min Scan# 1193  
 Delta R.T. 0.00 min  
 Lab File: VF059783.D  
 Acq: 2 Aug 2018 5:46

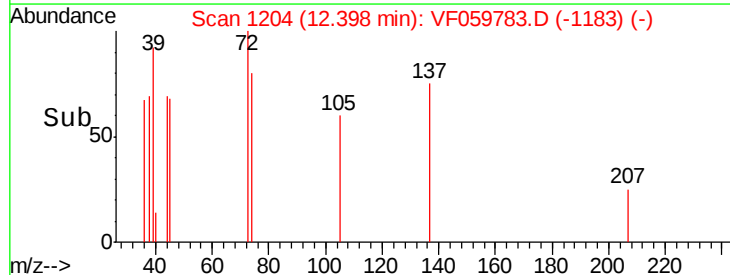
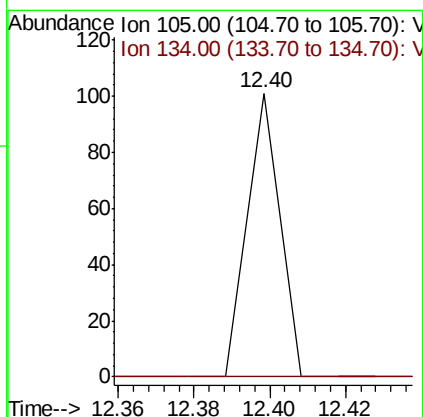
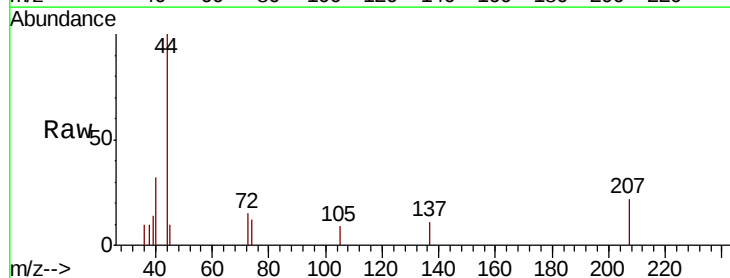
Instrument :  
 MSVOA\_F  
 ClientSampleID :  
 OK-03-073118

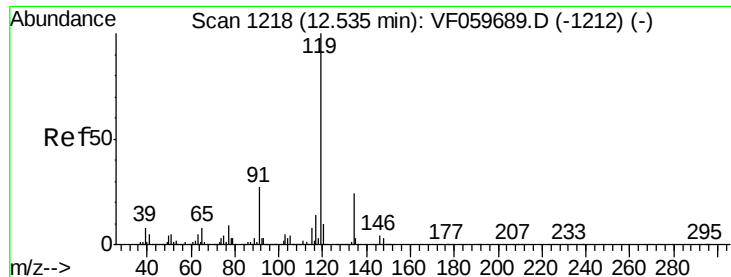
Tgt Ion:105 Resp: 477  
 Ion Ratio Lower Upper  
 105 100  
 120 41.0 21.1 63.3



#85  
 sec-Butylbenzene  
 Concen: Below Cal  
 RT: 12.40 min Scan# 1204  
 Delta R.T. 0.01 min  
 Lab File: VF059783.D  
 Acq: 2 Aug 2018 5:46

Tgt Ion:105 Resp: 60  
 Ion Ratio Lower Upper  
 105 100  
 134 0.0 9.8 29.3#

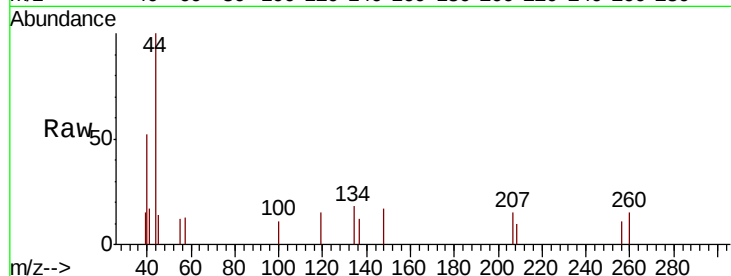




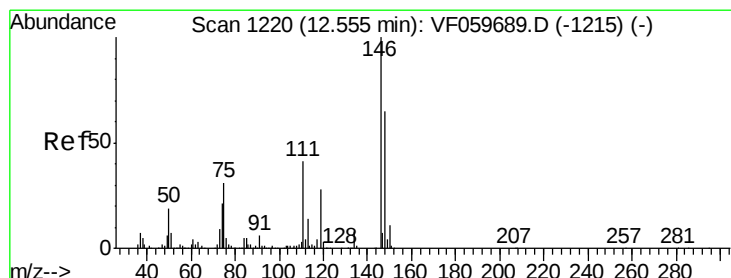
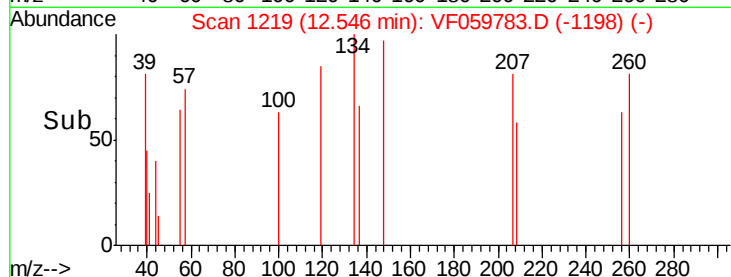
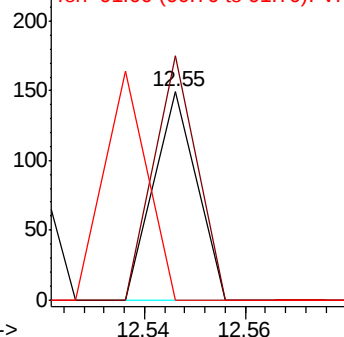
#86  
p-Isopropyltoluene  
Concen: Below Cal  
RT: 12.55 min Scan# 1219  
Delta R.T. 0.01 min  
Lab File: VF059783.D  
Acq: 2 Aug 2018 5:46

Instrument :  
MSVOA\_F  
ClientSampleId :  
OK-03-073118

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 117.4 | 12.2  | 36.6# |
| 91      | 0.0   | 13.4  | 40.2# |

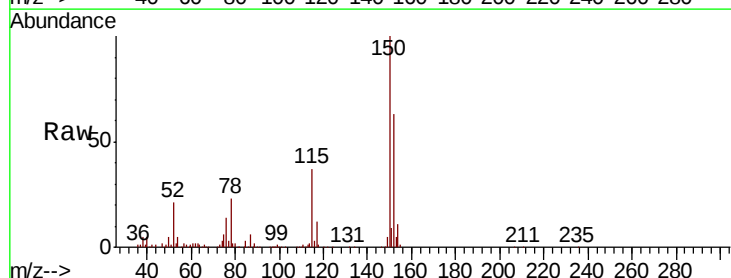


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 134.00 (133.70 to 134.70): V  
Ion 91.00 (90.70 to 91.70): V

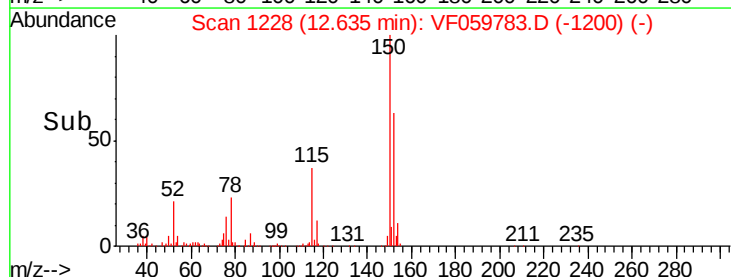
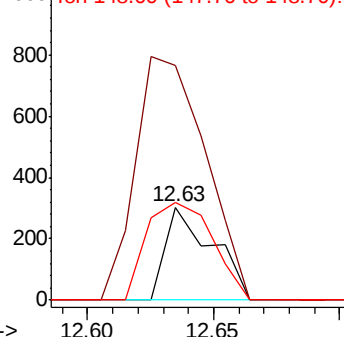


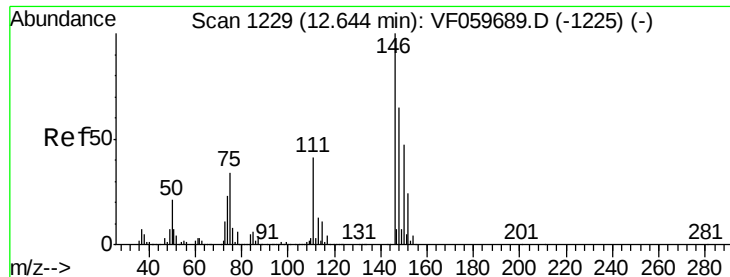
#87  
1,3-Dichlorobenzene  
Concen: Below Cal  
RT: 12.63 min Scan# 1228  
Delta R.T. 0.08 min  
Lab File: VF059783.D  
Acq: 2 Aug 2018 5:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 252.5 | 20.7  | 62.1# |
| 148     | 105.6 | 32.3  | 96.8# |



Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.63 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

Instrument :

MSVOA\_F

ClientSampleId :

OK-03-073118

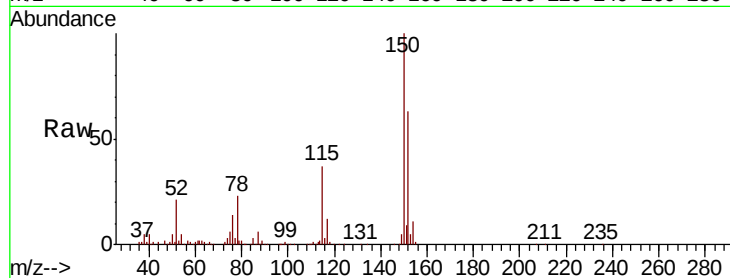
Tgt Ion:146 Resp: 392

Ion Ratio Lower Upper

146 100

111 252.5 20.8 62.2#

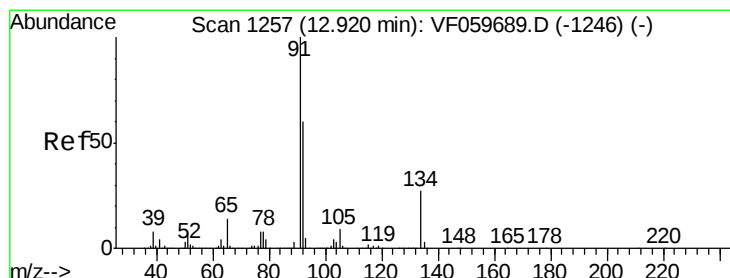
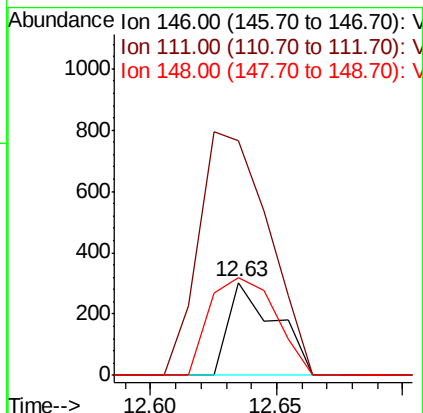
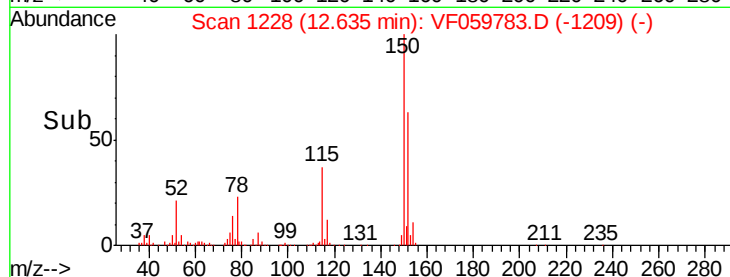
148 105.6 32.3 96.9#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#89

n-Butylbenzene

Concen: Below Cal

RT: 12.92 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

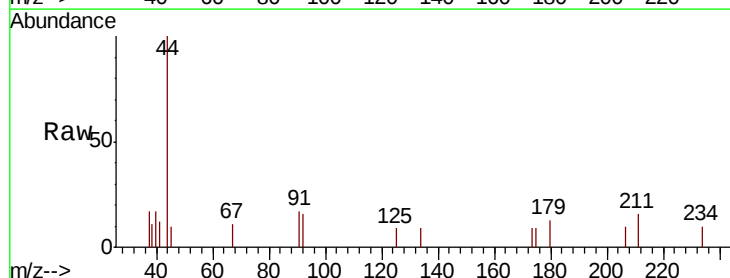
Tgt Ion: 91 Resp: 196

Ion Ratio Lower Upper

91 100

92 92.6 30.1 90.3#

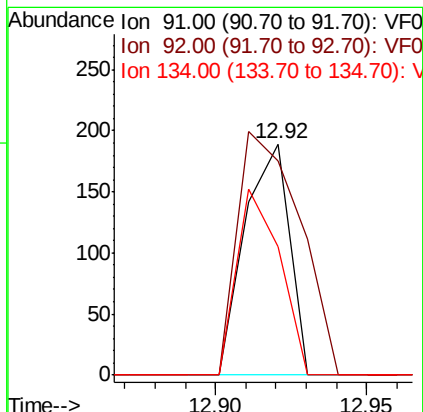
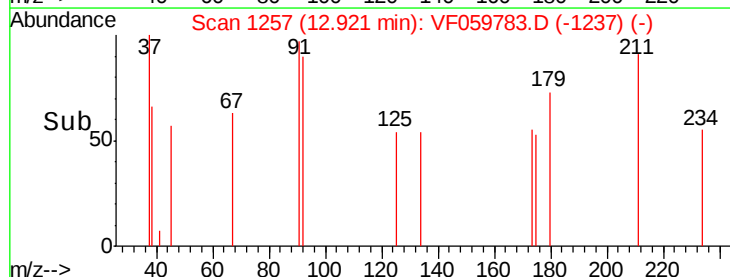
134 55.6 13.7 41.0#

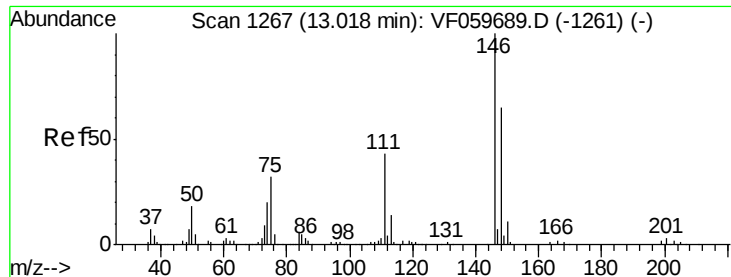


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V





#91

1,2-Dichlorobenzene

Concen: Below Cal

RT: 13.02 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

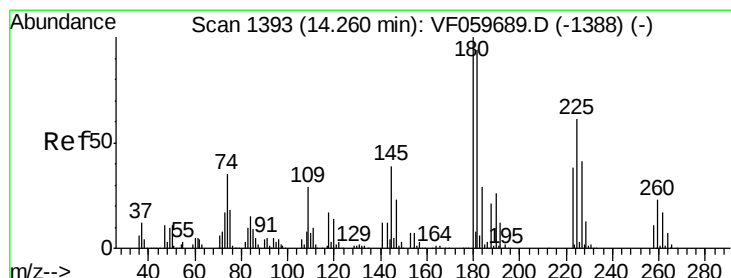
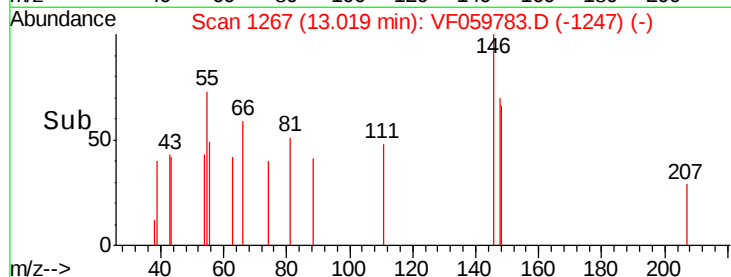
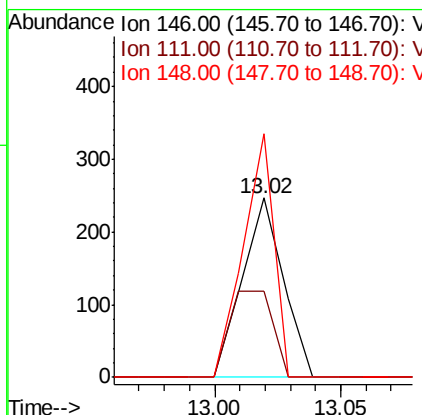
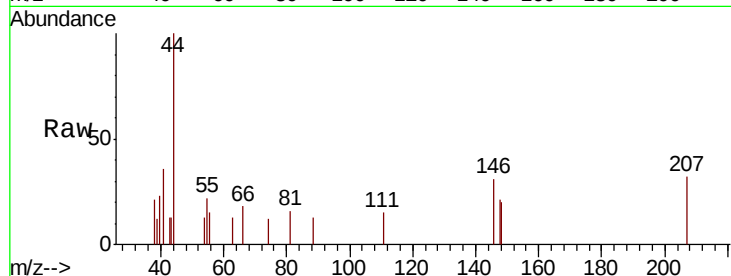
Instrument :

MSVOA\_F

ClientSampleId :

OK-03-073118

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 279   |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 47.8  | 21.6  | 65.0  |
| 148      | 135.6 | 32.3  | 96.9# |



#93

1,2,4-Trichlorobenzene

Concen: Below Cal

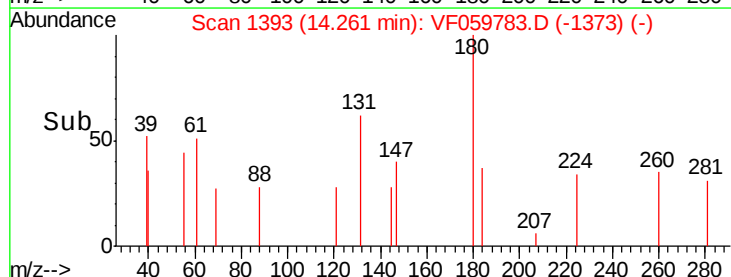
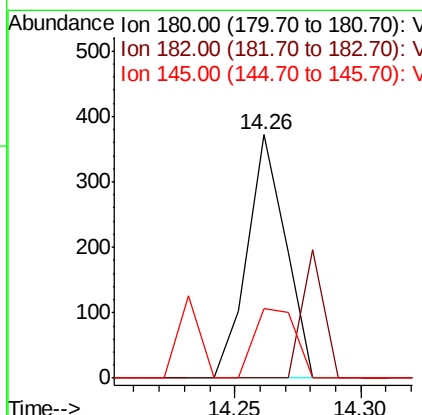
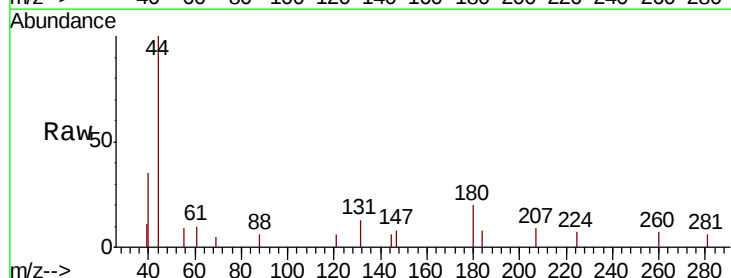
RT: 14.26 min Scan# 1393

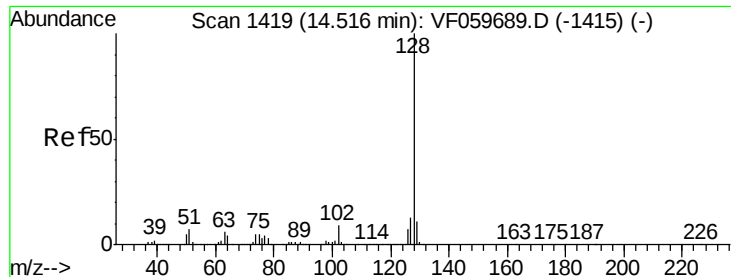
Delta R.T. 0.00 min

Lab File: VF059783.D

Acq: 2 Aug 2018 5:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 395    |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 0.0   | 47.2  | 141.6# |
| 145      | 28.5  | 19.3  | 57.9   |

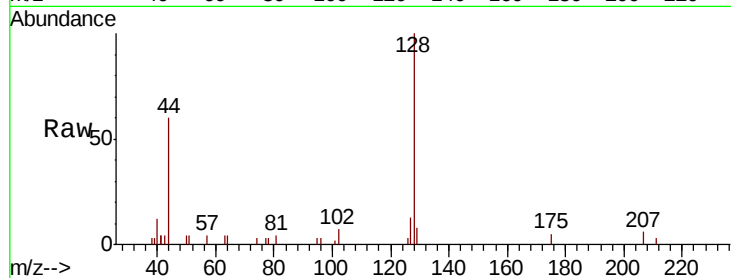




#95  
Naphthalene  
Concen: 1.427 ug/l  
RT: 14.53 min Scan# 1420  
Delta R.T. 0.01 min  
Lab File: VF059783.D  
Acq: 2 Aug 2018 5:46

Instrument :  
MSVOA\_F  
ClientSampleId :  
OK-03-073118

Tgt Ion:128 Resp: 6820  
Ion Ratio Lower Upper  
128 100  
127 12.7 10.0 15.0  
129 8.3 8.6 13.0#



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

