

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030519\
 Data File : VF061848.D
 Acq On : 5 Mar 2019 16:37
 Operator : VA/AP
 Sample : K1715-07RE
 Misc : 5.48g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-4-B-DRE

Quant Time: Mar 06 05:44:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	31252	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	33581	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	18726	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	5093	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	3072	13.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	27.00%	
35) Dibromofluoromethane	4.12	113	6185	26.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	52.78%	
50) Toluene-d8	7.55	98	20518	29.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	58.92%	
62) 4-Bromofluorobenzene	11.41	95	4152	15.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	30.44%	

Target Compounds

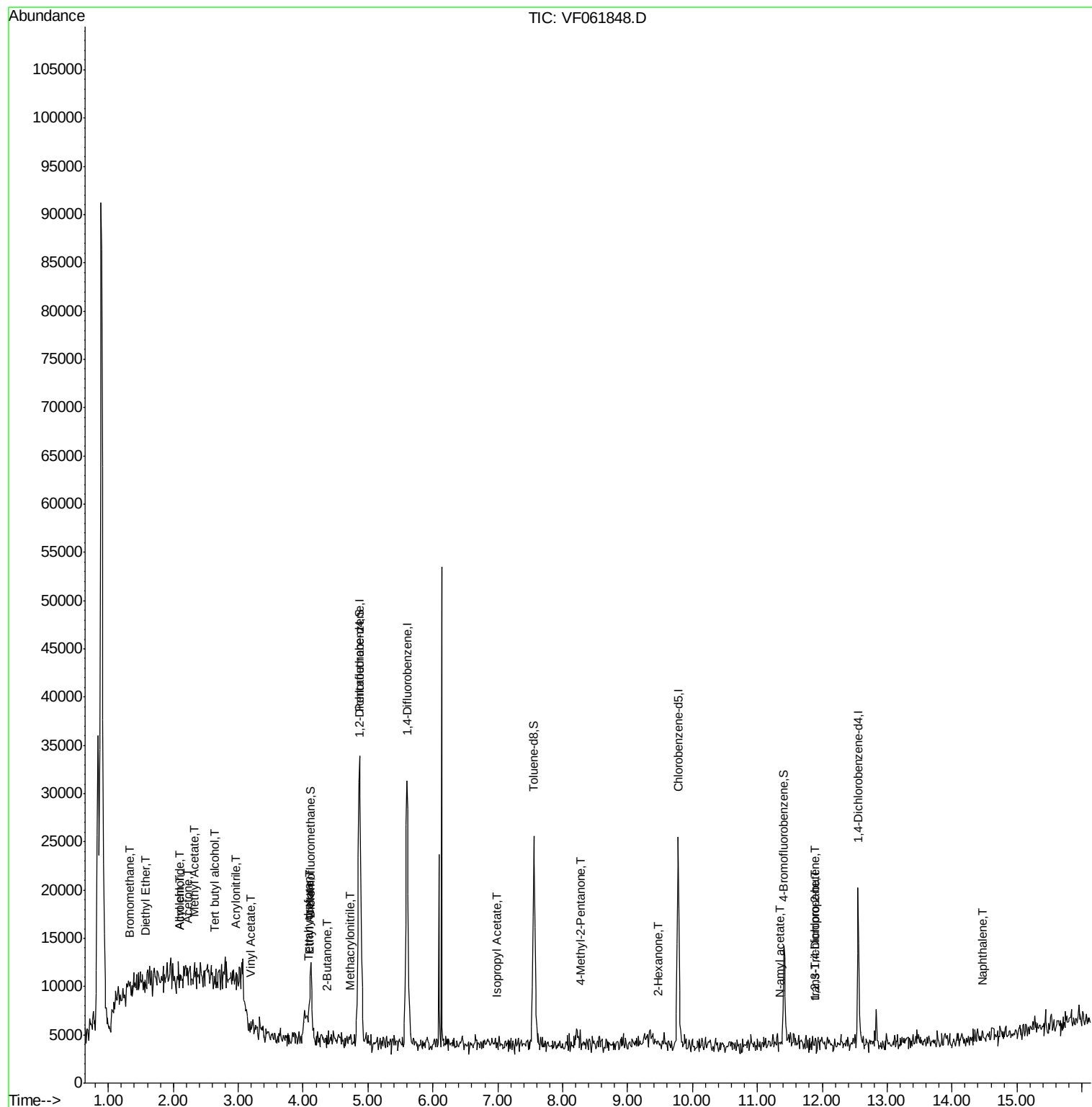
						Qvalue
5) Bromomethane	1.33	94	561	2.332	ug/l #	40
8) Diethyl Ether	1.57	74	142	1.448	ug/l	54
11) Tert butyl alcohol	2.63	59	70	5.419	ug/l #	1
13) Acrolein	2.10	56	382	23.338	ug/l	87
14) Allyl chloride	2.10	41	388	1.318	ug/l #	74
15) Acrylonitrile	2.96	53	461	11.207	ug/l #	35
16) Acetone	2.23	43	2747	57.621	ug/l	92
18) Methyl Acetate	2.34	43	1100	5.958	ug/l #	62
20) Methylene Chloride	2.19	84	795	Below Cal	#	70
23) Vinyl Acetate	3.19	43	394	1.151	ug/l #	76
25) 2-Butanone	4.36	43	812	8.373	ug/l #	56
29) Tetrahydrofuran	4.08	42	229	5.476	ug/l #	33
37) Ethyl Acetate	4.09	43	178	1.337	ug/l #	20
41) Methacrylonitrile	4.73	41	179	2.454	ug/l #	24
43) Isopropyl Acetate	6.98	43	250	1.523	ug/l #	42
51) 4-Methyl-2-Pentanone	8.26	43	305	2.689	ug/l #	35
59) 2-Hexanone	9.47	43	227	2.774	ug/l #	22
74) N-amyl acetate	11.35	43	101	1.251	ug/l #	42
76) 1,2,3-Trichloropropane	11.87	75	92	2.313	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.87	75	92	5.059	ug/l #	18
95) Naphthalene	14.46	128	212	1.118	ug/l #	70

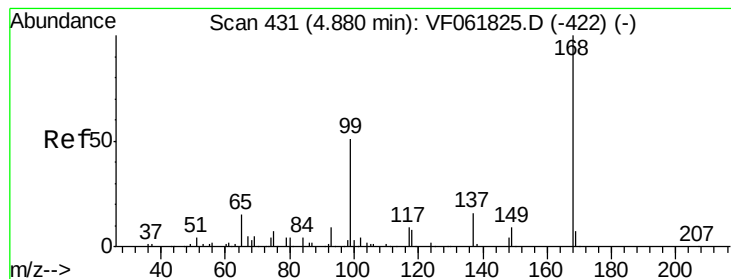
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Mar 05 04:50:44 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061848.D

Acq: 5 Mar 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

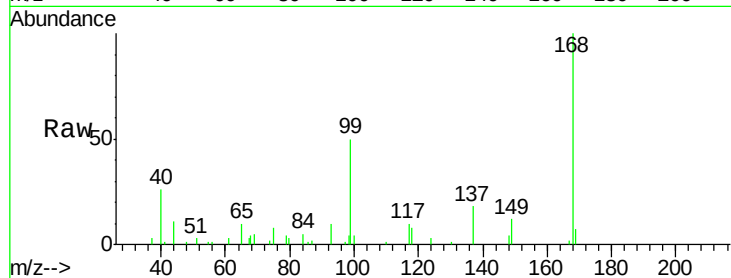
TP-4-B-DRE

Tot Ion:168 Resp: 31252

Ion Ratio Lower Upper

168 100

99 50.4 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

12000

10000

8000

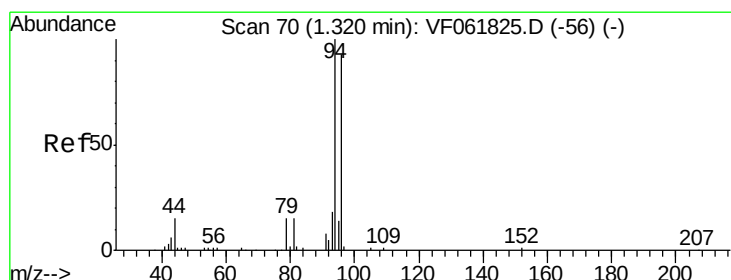
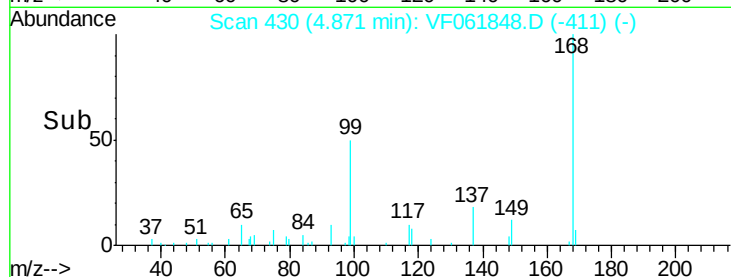
6000

4000

2000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#5

Bromomethane

Concen: 2.332 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061848.D

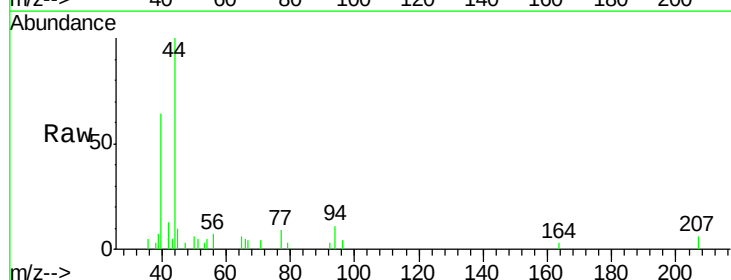
Acq: 5 Mar 2019 16:37

Tgt Ion: 94 Resp: 561

Ion Ratio Lower Upper

94 100

96 36.0 75.2 112.8#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.33

500

400

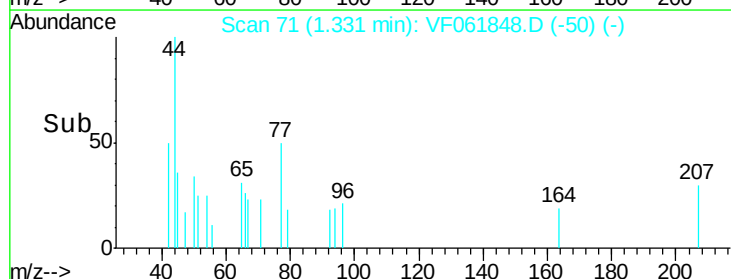
300

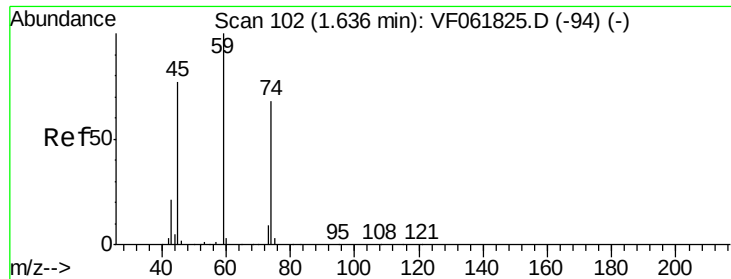
200

100

0

Time--> 1.30 1.35 1.40

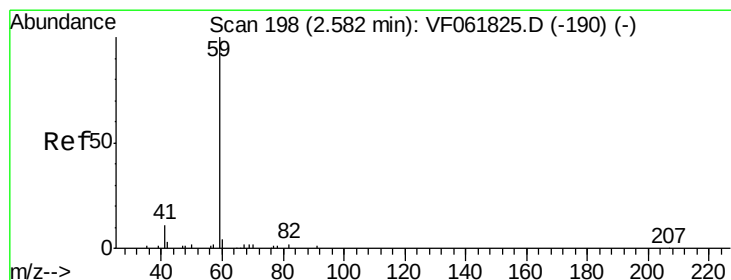
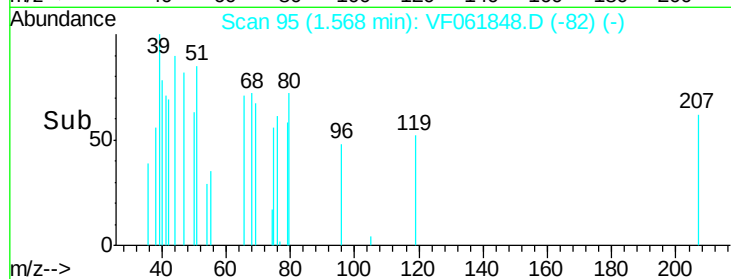
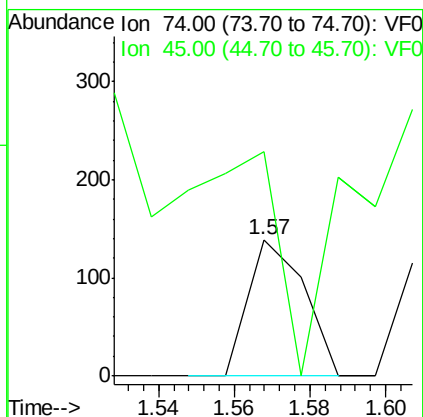
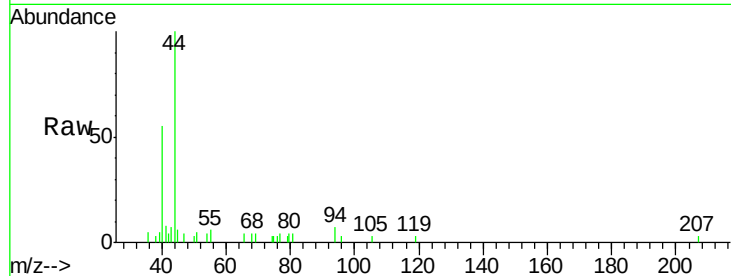




#8
Diethyl Ether
Concen: 1.448 ug/l
RT: 1.57 min Scan# 95
Delta R.T. -0.07 min
Lab File: VF061848.D
Acq: 5 Mar 2019 16:37

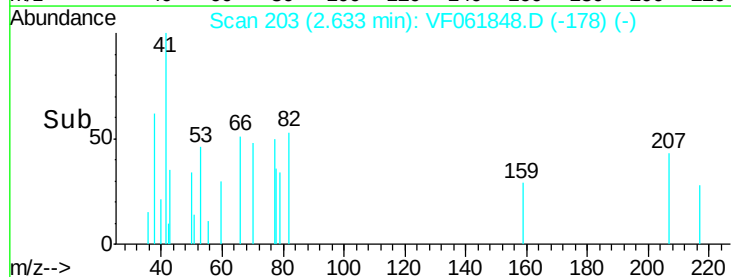
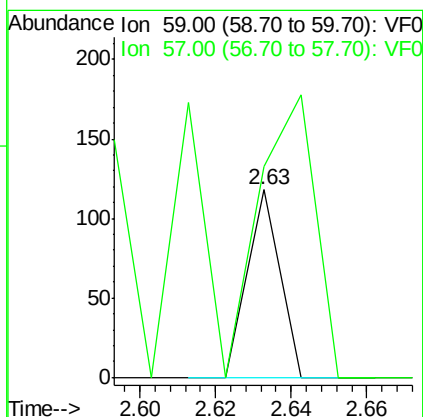
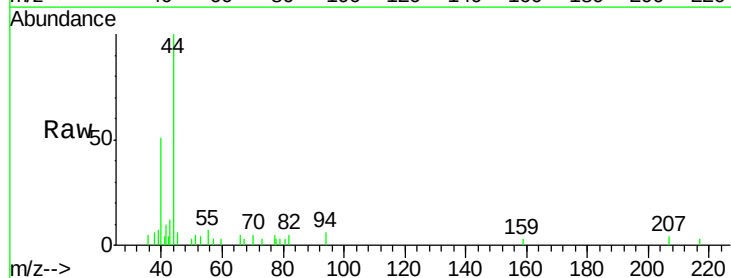
Instrument :
MSVOA_F
ClientSampleId :
TP-4-B-DRE

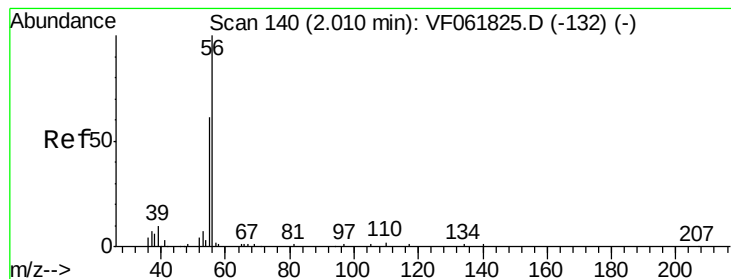
Tot Ion: 74 Resp: 142
Ion Ratio Lower Upper
74 100
45 164.0 57.2 171.6



#11
Tert butyl alcohol
Concen: 5.419 ug/l
RT: 2.63 min Scan# 203
Delta R.T. 0.05 min
Lab File: VF061848.D
Acq: 5 Mar 2019 16:37

Tgt Ion: 59 Resp: 70
Ion Ratio Lower Upper
59 100
57 112.7 11.8 17.6#





#13

Acrolein

Concen: 23.338 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.09 min

Lab File: VF061848.D

Acq: 5 Mar 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

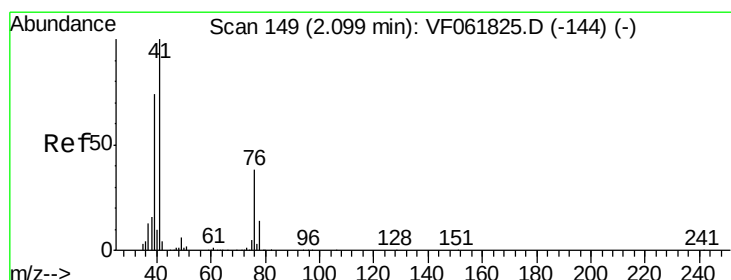
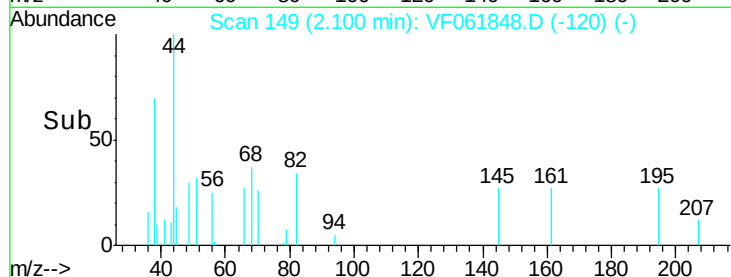
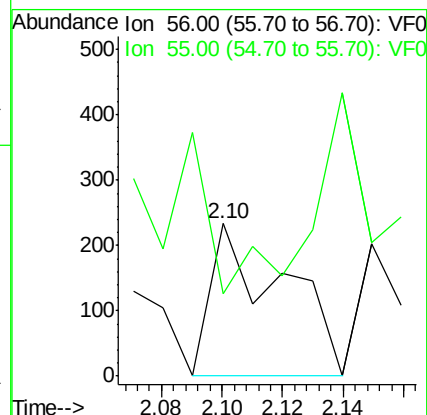
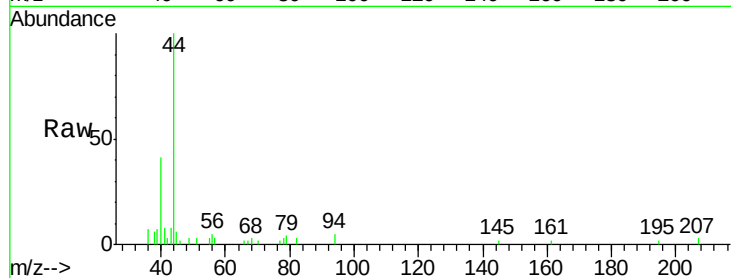
TP-4-B-DRE

Tot Ion: 56 Resp: 382

Ion Ratio Lower Upper

56 100

55 54.1 51.3 76.9



#14

Allyl chloride

Concen: 1.318 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.00 min

Lab File: VF061848.D

Acq: 5 Mar 2019 16:37

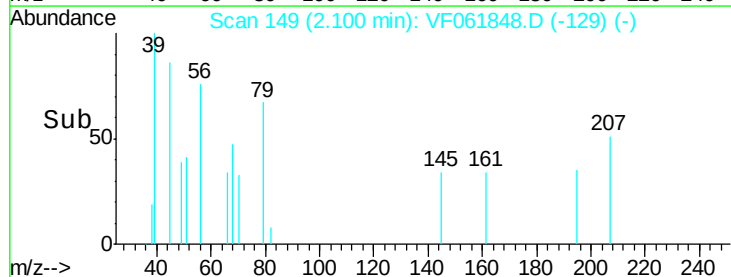
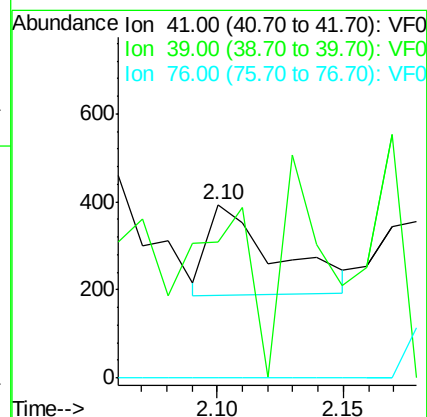
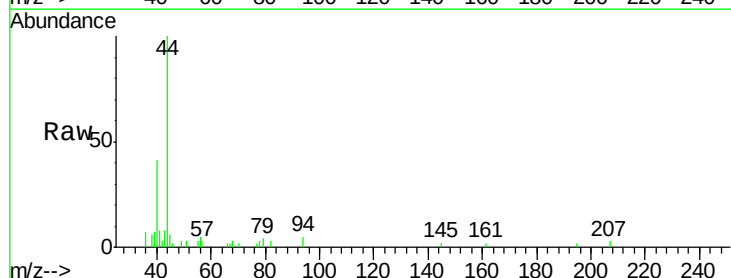
Tgt Ion: 41 Resp: 388

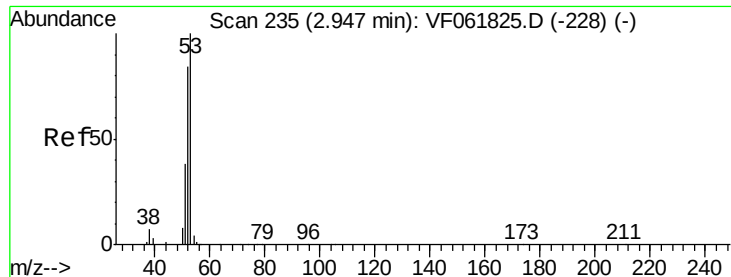
Ion Ratio Lower Upper

41 100

39 78.2 59.6 89.4

76 0.0 32.3 48.5#

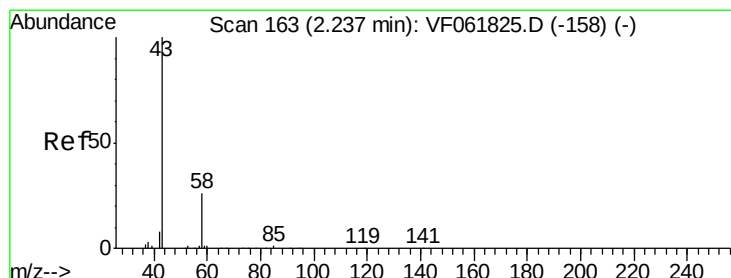
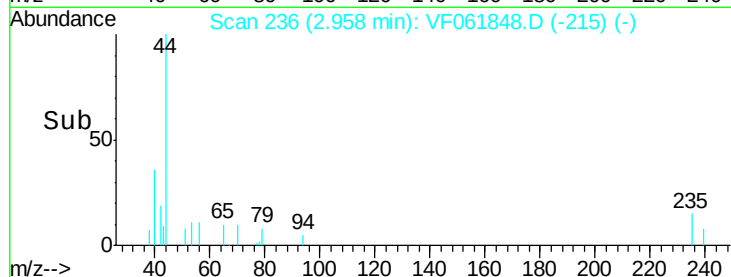
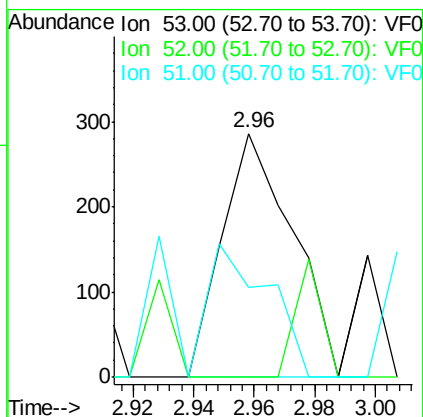
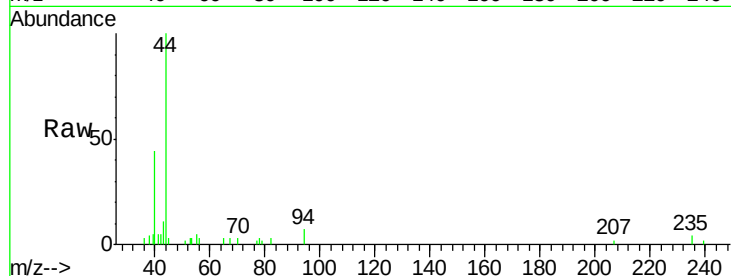




#15
 Acrylonitrile
 Concen: 11.207 ug/l
 RT: 2.96 min Scan# 236
 Delta R.T. 0.01 min
 Lab File: VF061848.D
 Acq: 5 Mar 2019 16:37

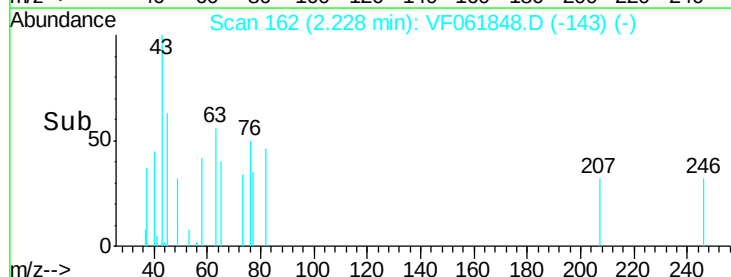
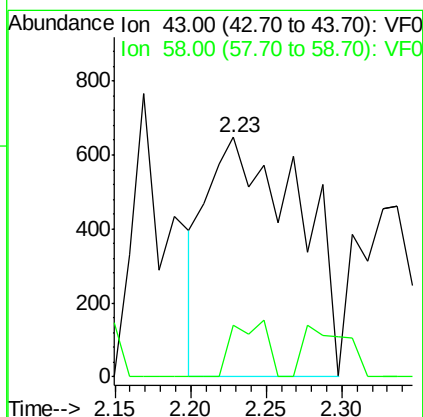
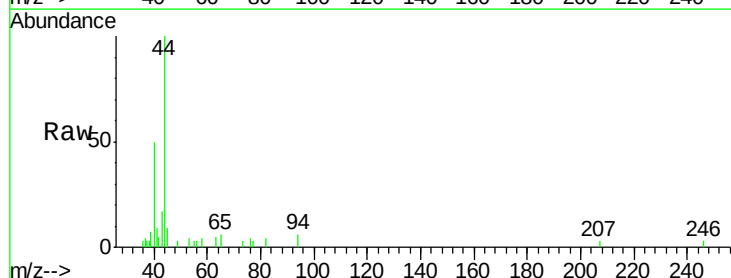
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-4-B-DRE

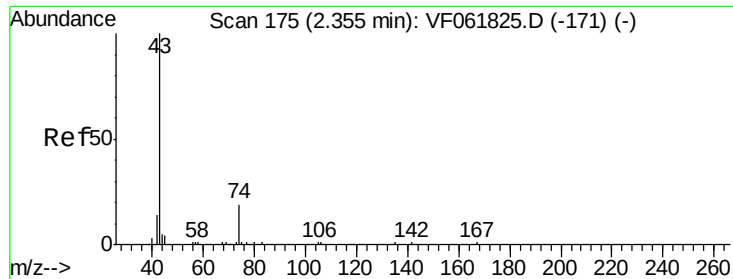
Tot Ion: 53 Resp: 461
 Ion Ratio Lower Upper
 53 100
 52 0.0 67.4 101.0#
 51 36.7 30.7 46.1



#16
 Acetone
 Concen: 57.621 ug/l
 RT: 2.23 min Scan# 162
 Delta R.T. -0.01 min
 Lab File: VF061848.D
 Acq: 5 Mar 2019 16:37

Tgt Ion: 43 Resp: 2747
 Ion Ratio Lower Upper
 43 100
 58 21.5 20.3 30.5

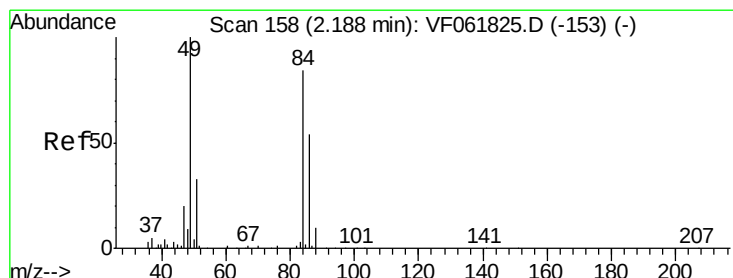
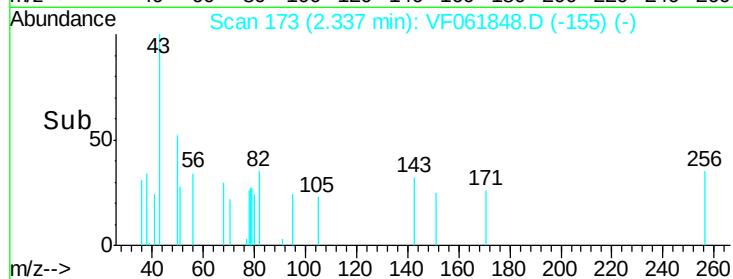
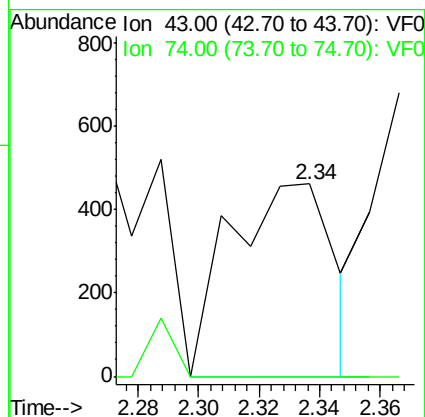
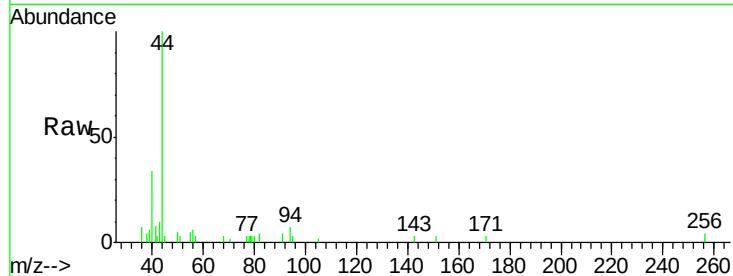




#18
Methyl Acetate
Concen: 5.958 ug/l
RT: 2.34 min Scan# 173
Delta R.T. -0.02 min
Lab File: VF061848.D
Acq: 5 Mar 2019 16:37

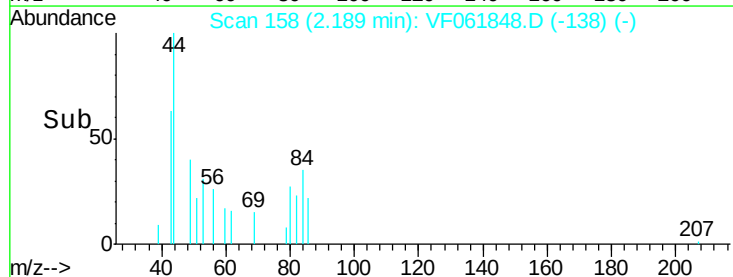
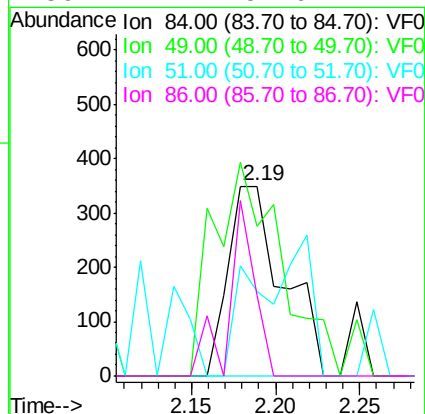
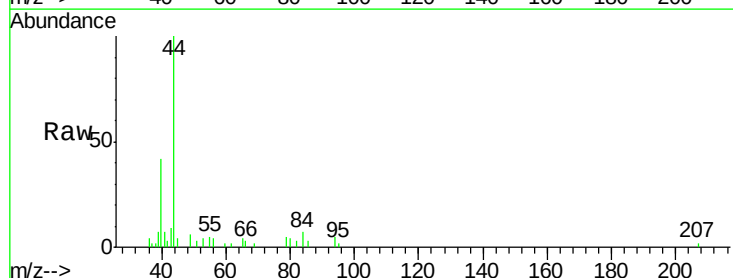
Instrument :
MSVOA_F
ClientSampleId :
TP-4-B-DRE

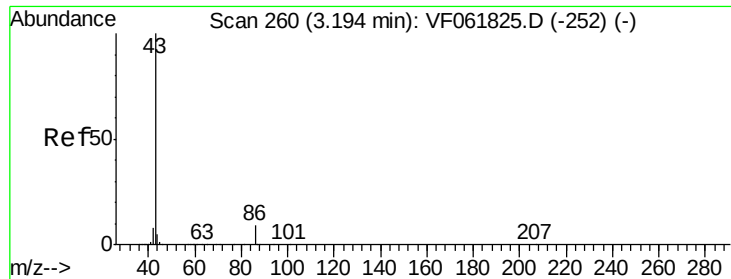
Tot Ion: 43 Resp: 1100
Ion Ratio Lower Upper
43 100
74 0.0 13.2 19.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.19 min Scan# 158
Delta R.T. 0.00 min
Lab File: VF061848.D
Acq: 5 Mar 2019 16:37

Tgt Ion: 84 Resp: 795
Ion Ratio Lower Upper
84 100
49 78.8 96.8 145.2#
51 44.4 31.8 47.6
86 42.7 51.6 77.4#





#23

Vinyl Acetate

Concen: 1.151 ug/l

RT: 3.19 min Scan# 260

Delta R.T. 0.00 min

Lab File: VF061848.D

Acq: 5 Mar 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

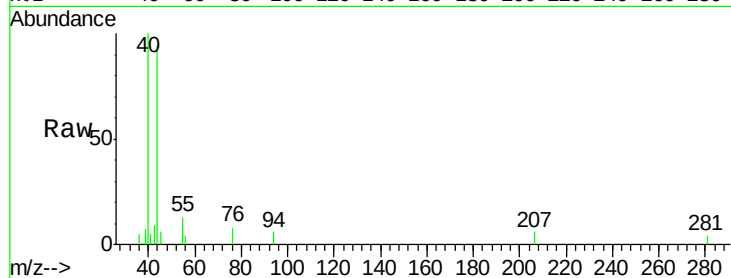
TP-4-B-DRE

Tot Ion: 43 Resp: 394

Ion Ratio Lower Upper

43 100

86 0.0 7.0 10.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

500

400

300

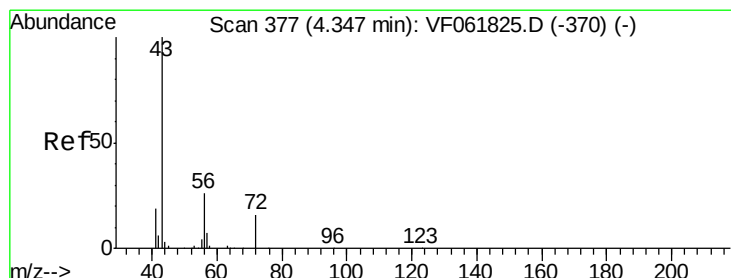
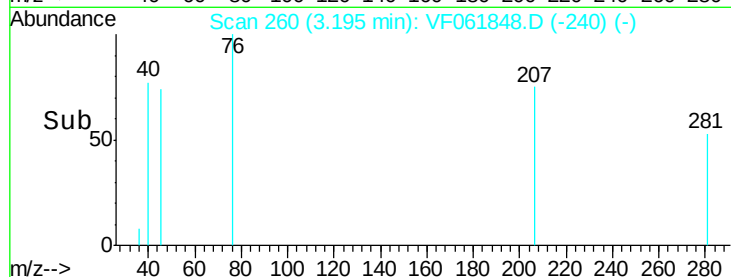
200

100

0

3.14 3.16 3.18 3.20 3.22

Time-->



#25

2-Butanone

Concen: 8.373 ug/l

RT: 4.36 min Scan# 378

Delta R.T. 0.01 min

Lab File: VF061848.D

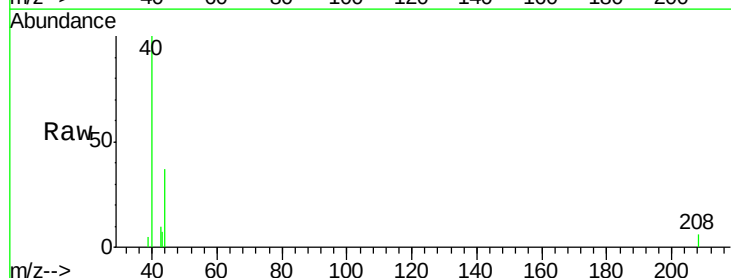
Acq: 5 Mar 2019 16:37

Tgt Ion: 43 Resp: 812

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

400

300

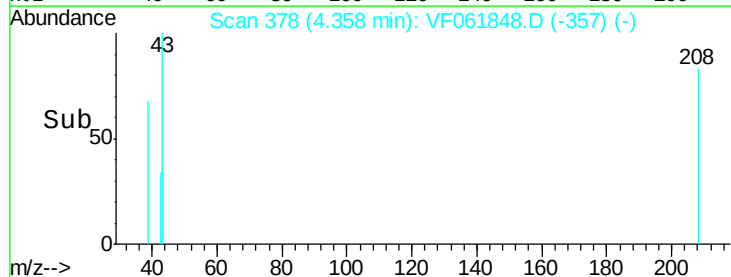
200

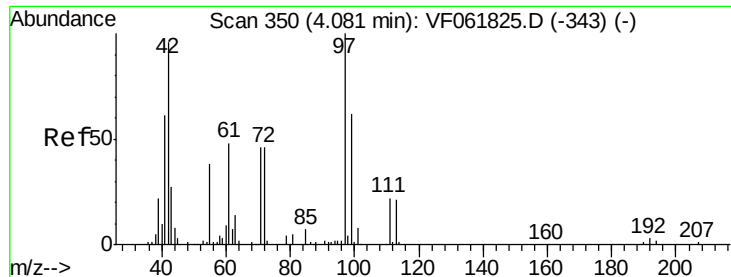
100

0

4.30 4.35 4.40

Time-->

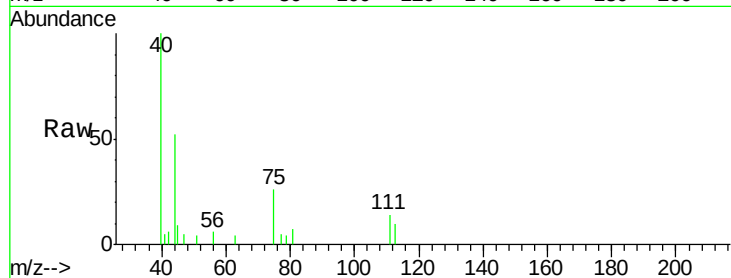




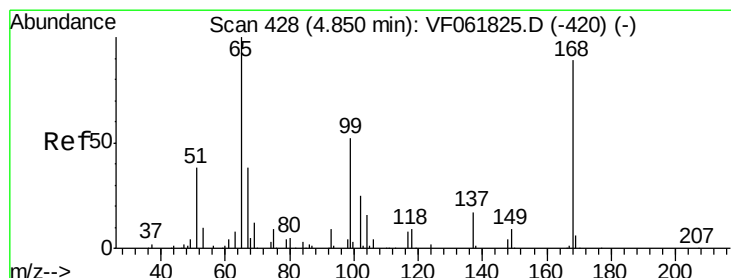
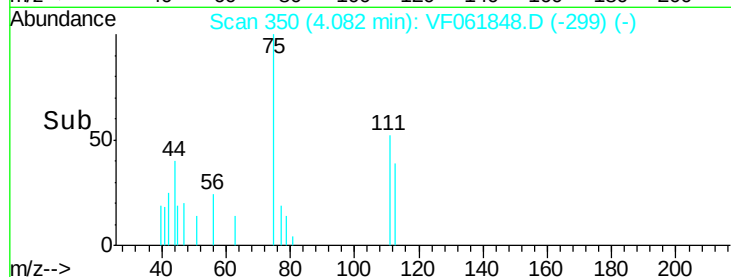
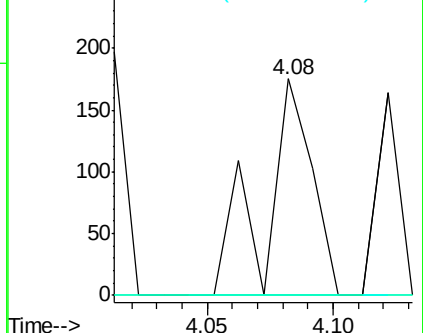
#29
Tetrahydrofuran
Concen: 5.476 ug/l
RT: 4.08 min Scan# 350
Delta R.T. 0.00 min
Lab File: VF061848.D
Acq: 5 Mar 2019 16:37

Instrument :
MSVOA_F
ClientSampleId :
TP-4-B-DRE

Tot Ion: 42 Resp: 229
Ion Ratio Lower Upper
42 100
72 0.0 34.4 51.6#
71 0.0 34.6 52.0#

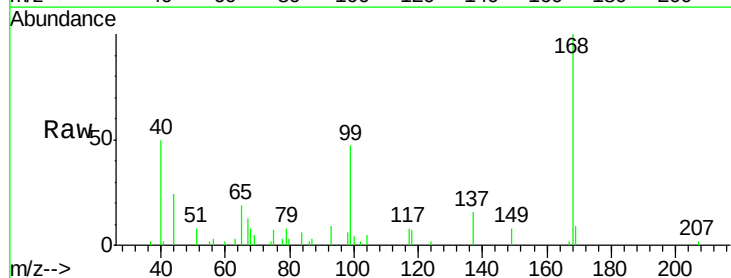


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

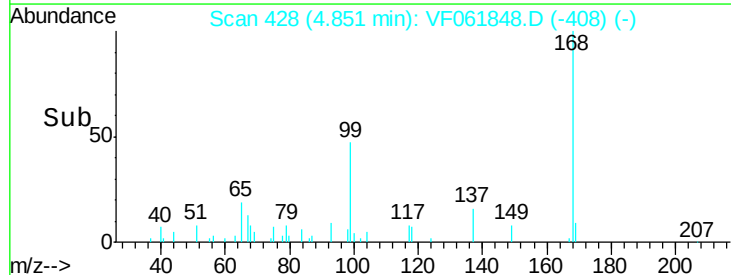
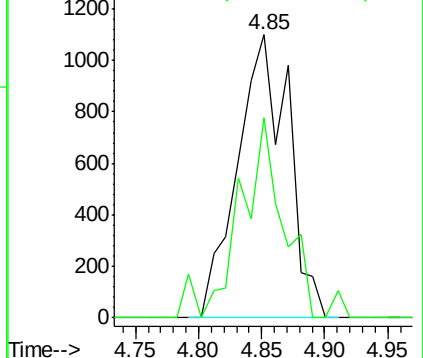


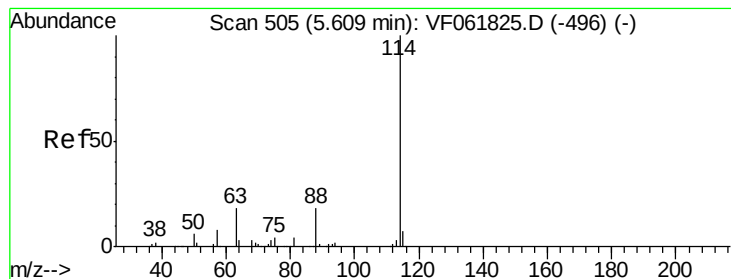
#33
1,2-Dichloroethane-d4
Concen: 13.498 ug/l
RT: 4.85 min Scan# 428
Delta R.T. 0.00 min
Lab File: VF061848.D
Acq: 5 Mar 2019 16:37

Tgt Ion: 65 Resp: 3072
Ion Ratio Lower Upper
65 100
67 70.9 0.0 108.6



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: 5.60 min Scan# 504

Delta R.T. -0.01 min

Lab File: VF061848.D

Acq: 5 Mar 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

TP-4-B-DRE

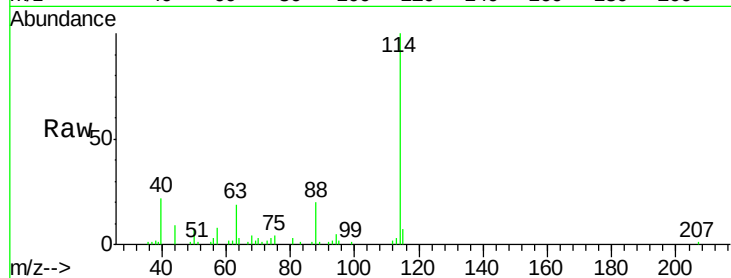
Tot Ion:114 Resp: 33581

Ion Ratio Lower Upper

114 100

63 19.1 0.0 35.6

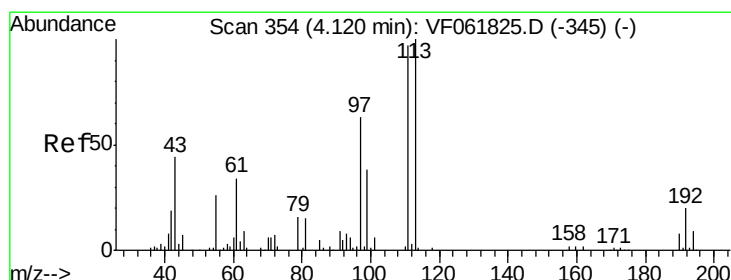
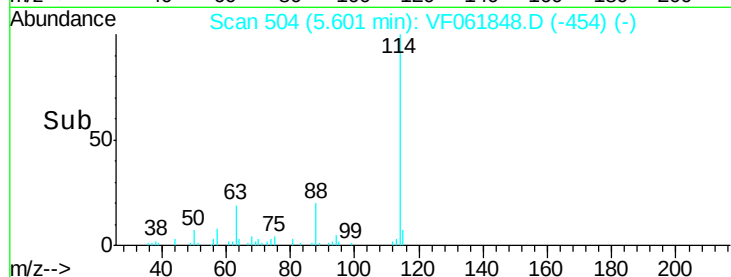
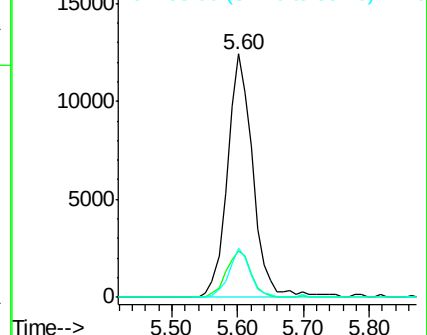
88 20.0 0.0 35.6



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



#35

Dibromofluoromethane

Concen: 26.392 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.00 min

Lab File: VF061848.D

Acq: 5 Mar 2019 16:37

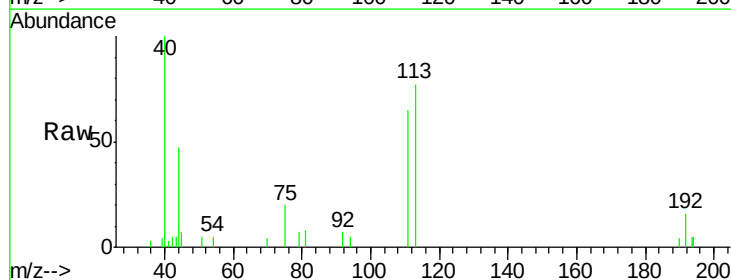
Tgt Ion:113 Resp: 6185

Ion Ratio Lower Upper

113 100

111 84.5 77.6 116.4

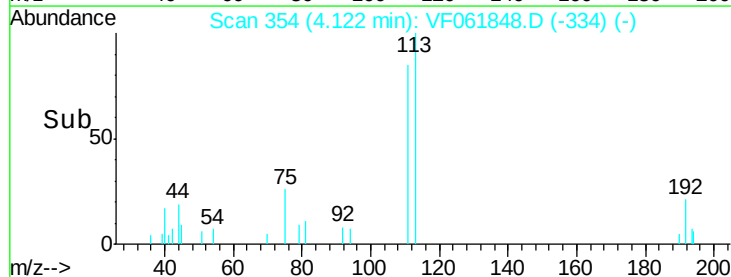
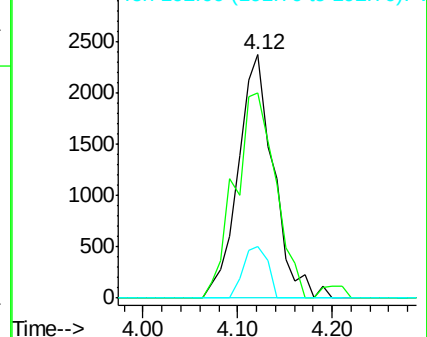
192 21.1 15.9 23.9

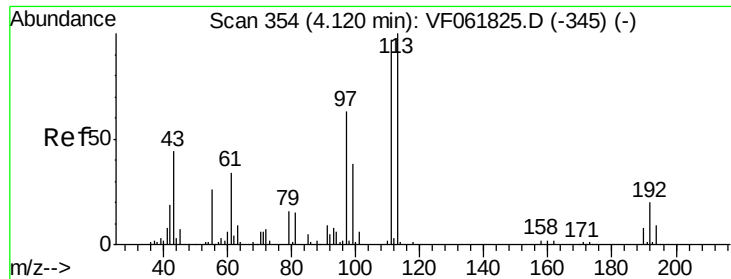


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

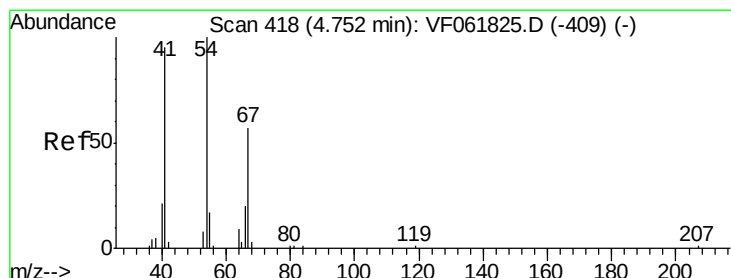
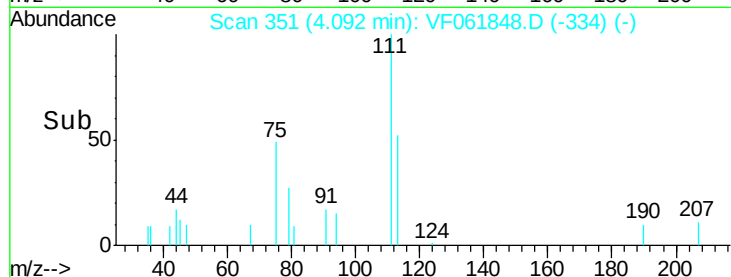
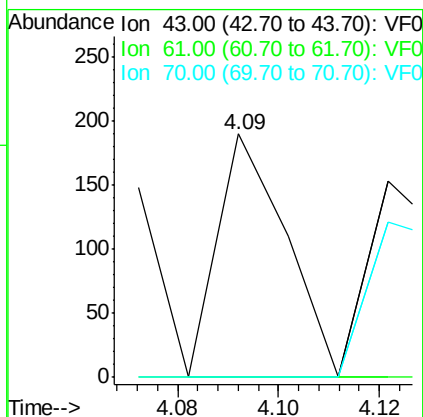
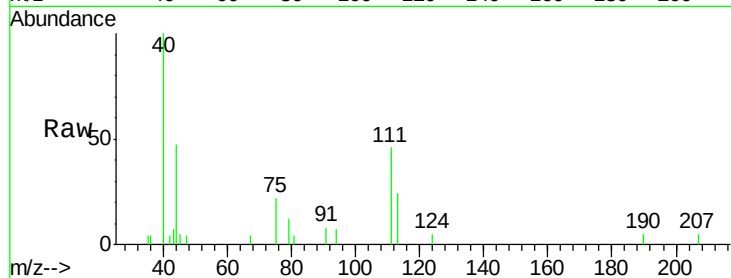




#37
Ethyl Acetate
Concen: 1.337 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.03 min
Lab File: VF061848.D
Acq: 5 Mar 2019 16:37

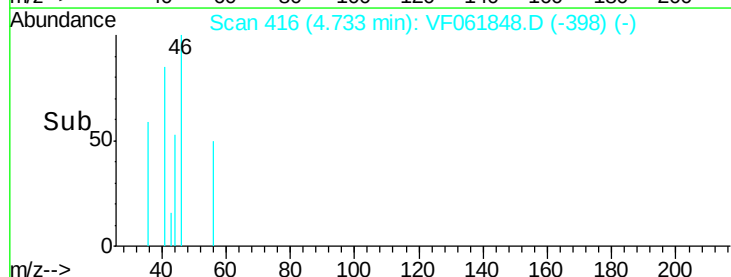
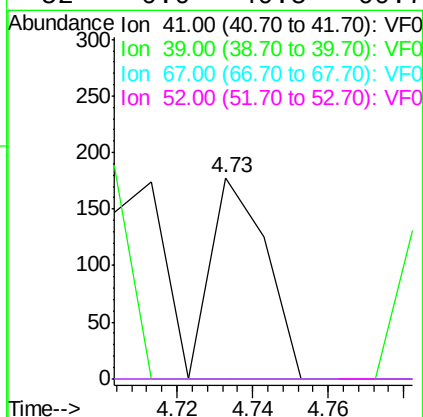
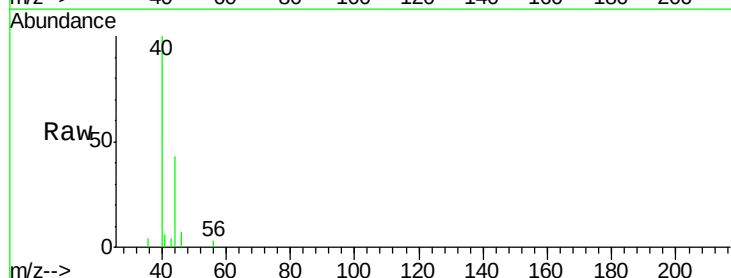
Instrument :
MSVOA_F
ClientSampleId :
TP-4-B-DRE

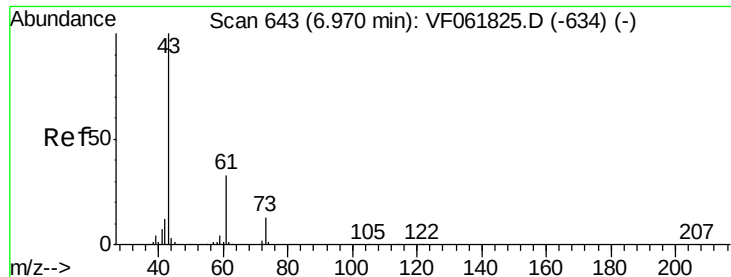
Tot Ion: 43 Resp: 178
Ion Ratio Lower Upper
43 100
61 0.0 60.7 91.1#
70 0.0 10.6 15.8#



#41
Methacrylonitrile
Concen: 2.454 ug/l
RT: 4.73 min Scan# 416
Delta R.T. -0.02 min
Lab File: VF061848.D
Acq: 5 Mar 2019 16:37

Tgt Ion: 41 Resp: 179
Ion Ratio Lower Upper
41 100
39 0.0 43.0 64.6#
67 0.0 47.8 71.8#
52 0.0 40.5 60.7#





#43

Isopropyl Acetate

Concen: 1.523 ug/l

RT: 6.98 min Scan# 644

Delta R.T. 0.01 min

Lab File: VF061848.D

Acq: 5 Mar 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

TP-4-B-DRE

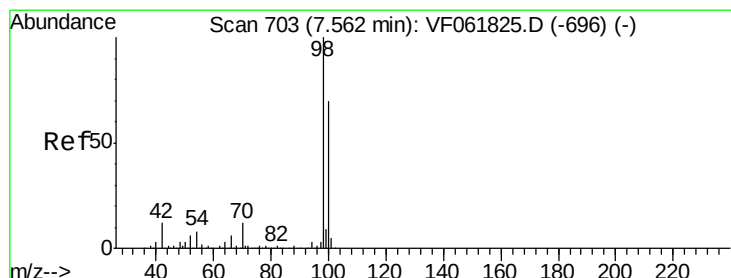
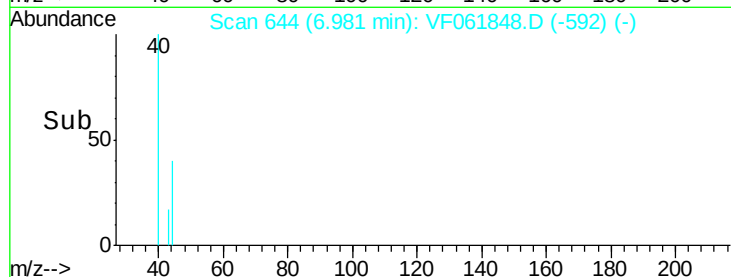
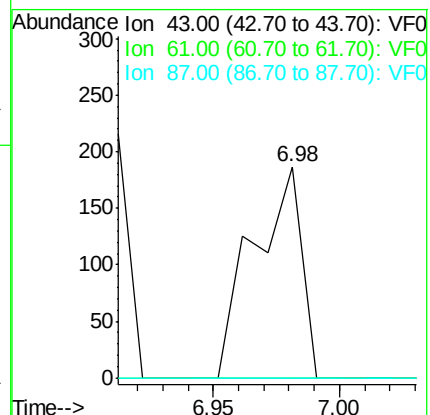
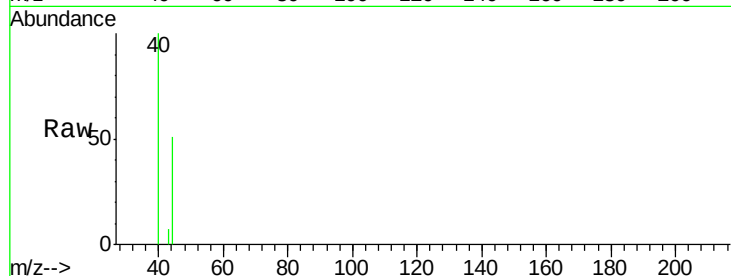
Tot Ion: 43 Resp: 250

Ion Ratio Lower Upper

43 100

61 0.0 26.1 39.1#

87 0.0 0.0 0.0



#50

Toluene-d8

Concen: 29.456 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF061848.D

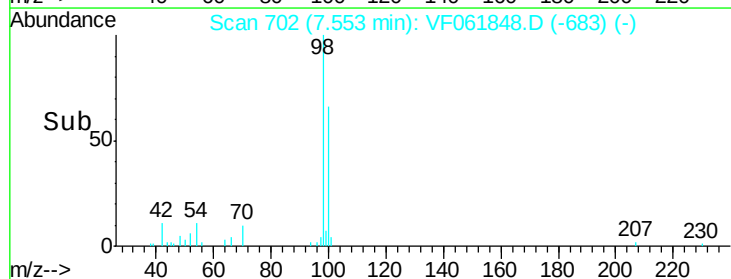
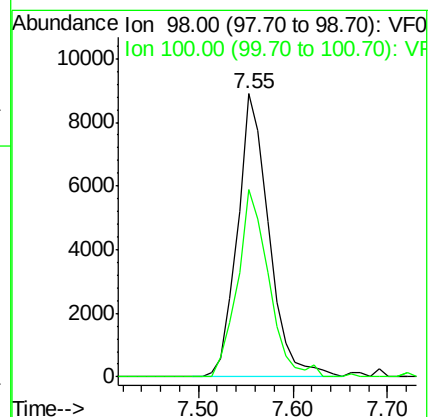
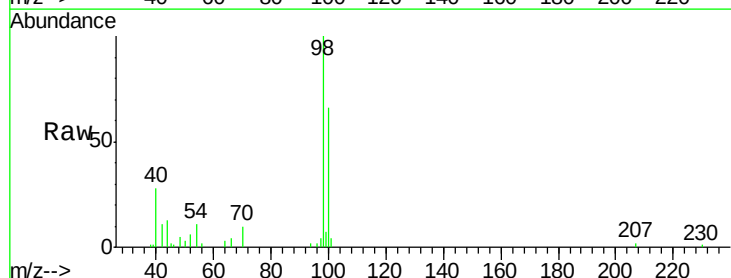
Acq: 5 Mar 2019 16:37

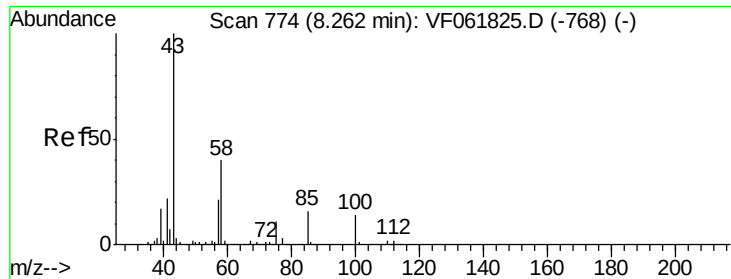
Tgt Ion: 98 Resp: 20518

Ion Ratio Lower Upper

98 100

100 66.2 56.0 84.0





#51

4-Methyl-2-Pentanone

Concen: 2.689 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.00 min

Lab File: VF061848.D

Acq: 5 Mar 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

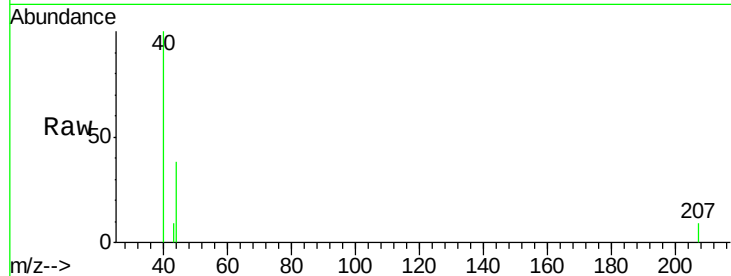
TP-4-B-DRE

Tot Ion: 43 Resp: 305

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

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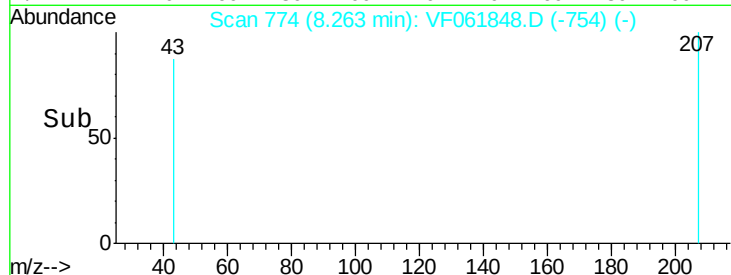
8.26

8.26

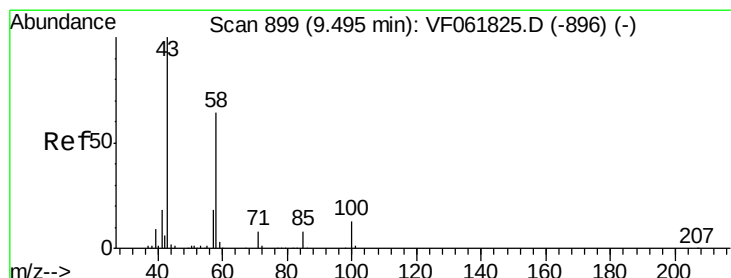
8.26

8.26

8.26



Time-->



#59

2-Hexanone

Concen: 2.774 ug/l

RT: 9.47 min Scan# 896

Delta R.T. -0.03 min

Lab File: VF061848.D

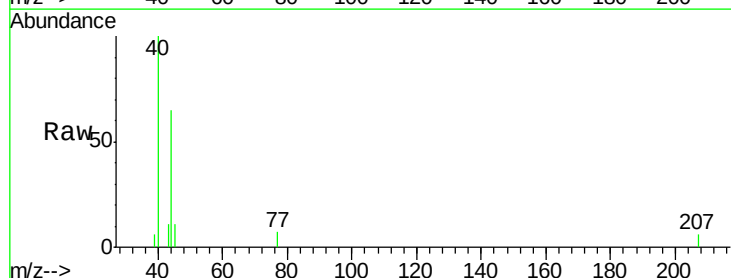
Acq: 5 Mar 2019 16:37

Tgt Ion: 43 Resp: 227

Ion Ratio Lower Upper

43 100

58 0.0 28.8 86.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

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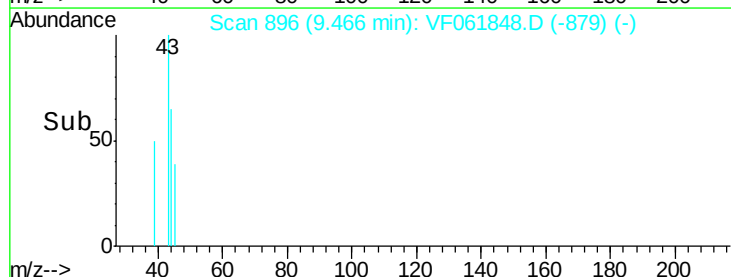
9.47

9.47

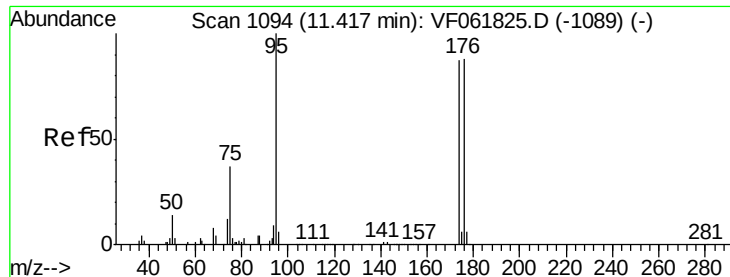
9.47

9.47

9.47



Time-->



#62

4-Bromofluorobenzene

Concen: 15.217 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061848.D

Acq: 5 Mar 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

TP-4-B-DRE

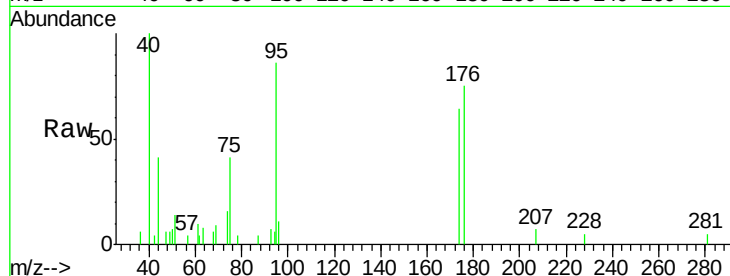
Tot Ion: 95 Resp: 4152

Ion Ratio Lower Upper

95 100

174 74.9 0.0 174.0

176 88.0 0.0 175.2

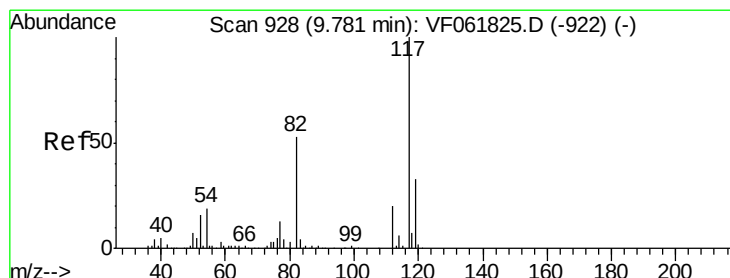
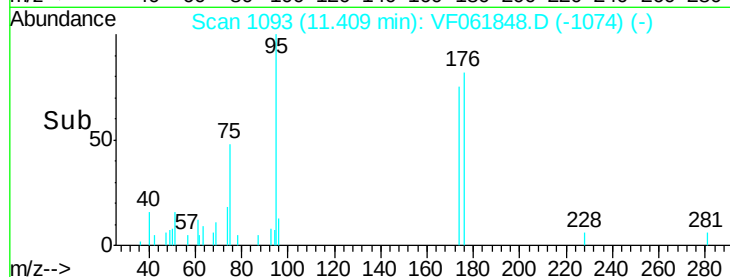
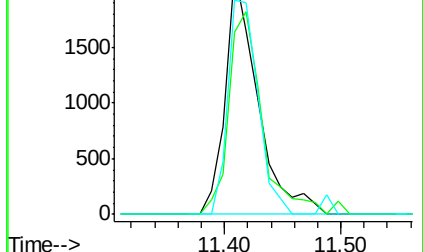


Abundance Ion 95.00 (94.70 to 95.70): VF061825.D (-1089) (-)

Ion 174.00 (173.70 to 174.70): VF061825.D (-1089) (-)

Ion 176.00 (175.70 to 176.70): VF061825.D (-1089) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. 0.00 min

Lab File: VF061848.D

Acq: 5 Mar 2019 16:37

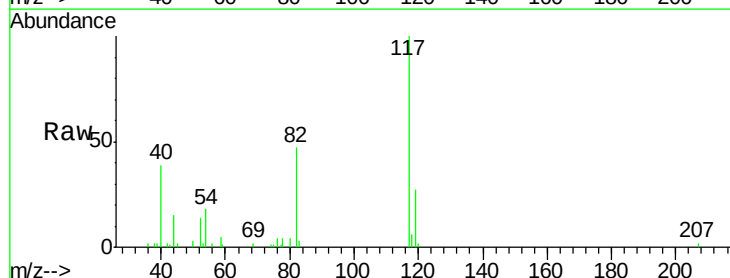
Tgt Ion: 117 Resp: 18726

Ion Ratio Lower Upper

117 100

82 47.4 42.6 63.8

119 27.1 26.0 39.0

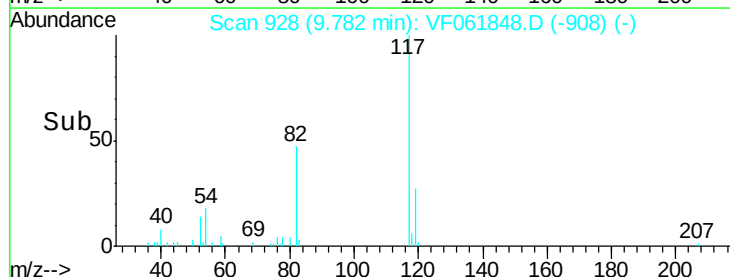
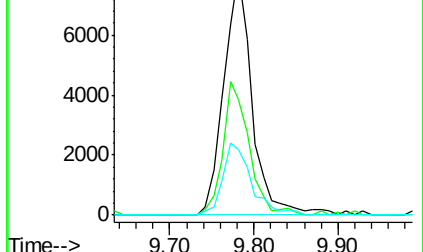


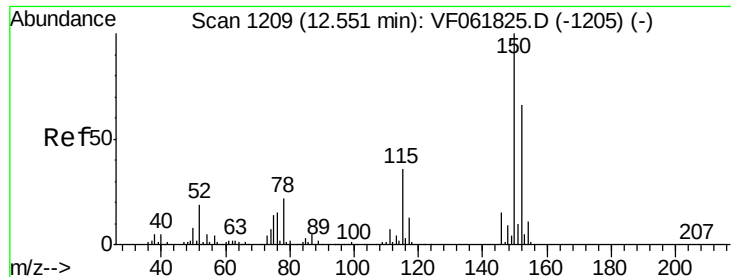
Abundance Ion 117.00 (116.70 to 117.70): VF061825.D (-922) (-)

Ion 82.00 (81.70 to 82.70): VF061825.D (-922) (-)

Ion 119.00 (118.70 to 119.70): VF061825.D (-922) (-)

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF061848.D

Acq: 5 Mar 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

TP-4-B-DRE

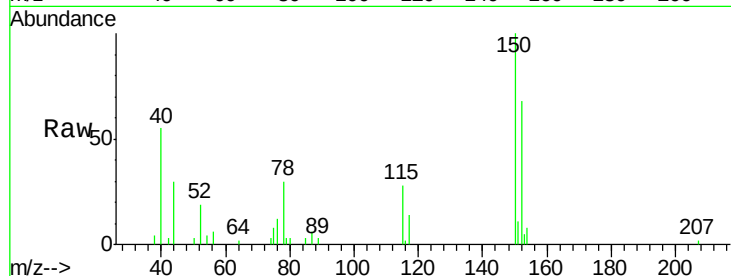
Tot Ion:152 Resp: 5093

Ion Ratio Lower Upper

152 100

115 41.1 27.7 83.1

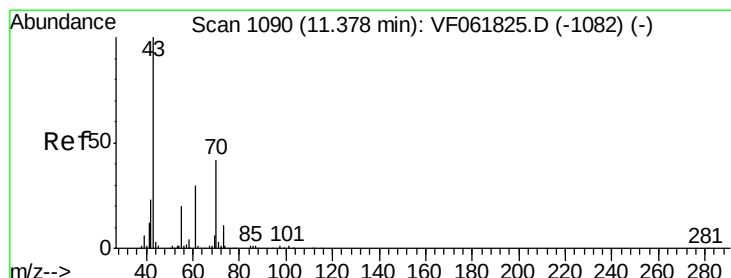
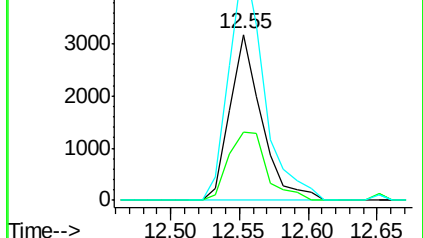
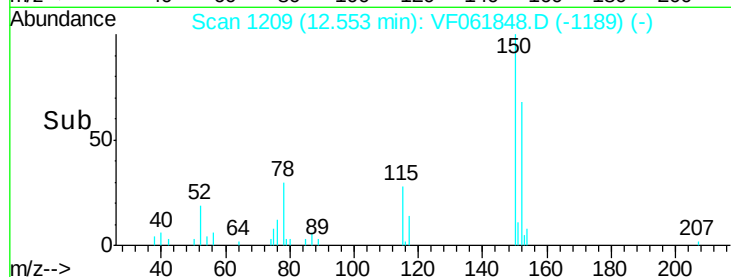
150 146.9 0.0 304.2



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



#74

N-amil acetate

Concen: 1.251 ug/l

RT: 11.35 min Scan# 1087

Delta R.T. -0.03 min

Lab File: VF061848.D

Acq: 5 Mar 2019 16:37

Tgt Ion: 43 Resp: 101

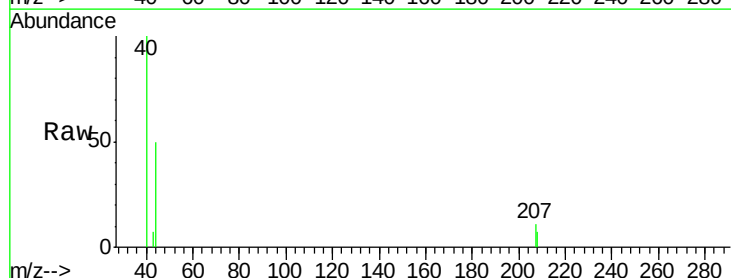
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 16.3 24.5#

61 0.0 24.0 36.0#

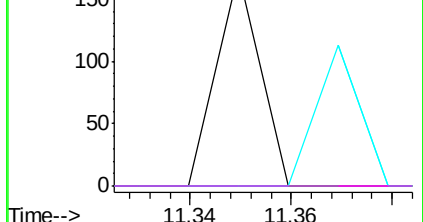
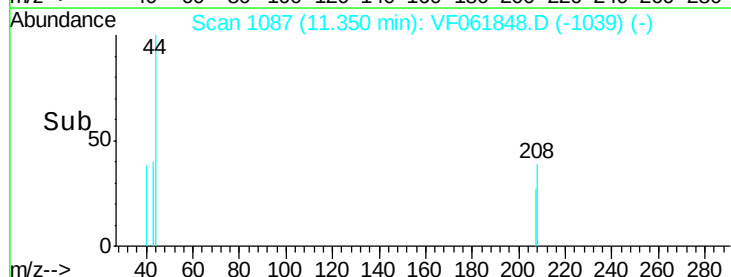


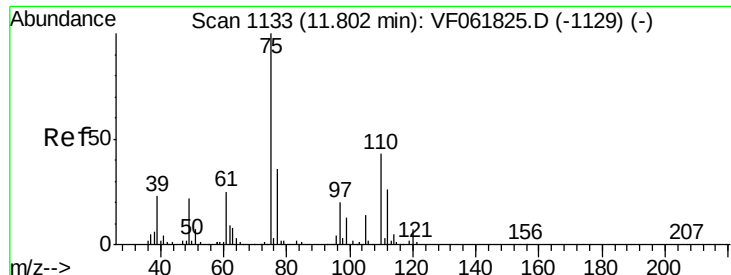
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#76

1,2,3-Trichloropropane

Concen: 2.313 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. 0.07 min

Lab File: VF061848.D

Acq: 5 Mar 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

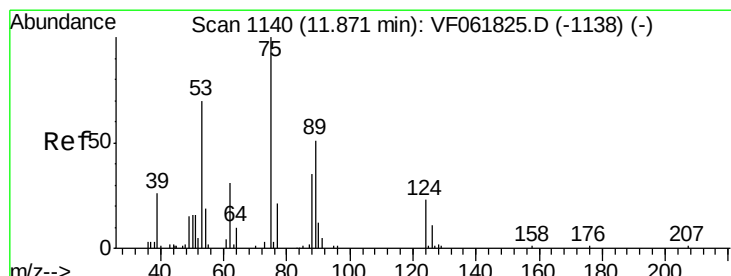
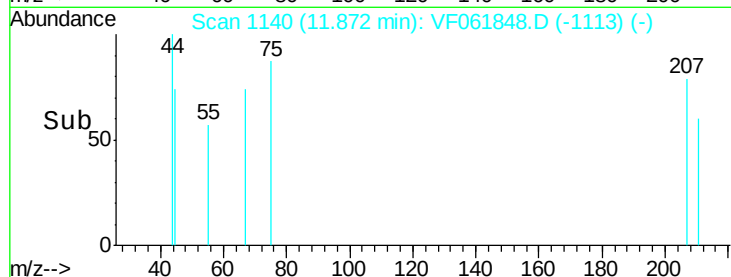
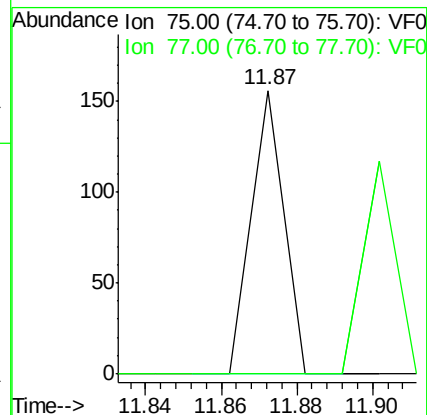
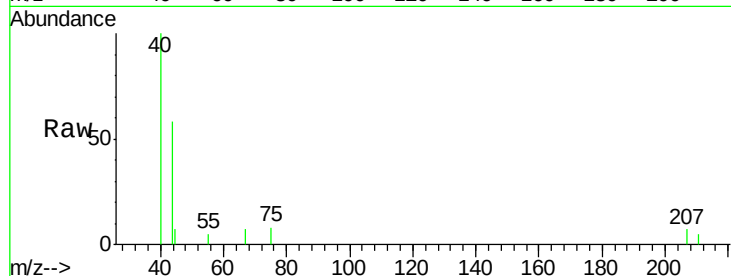
TP-4-B-DRE

Tot Ion: 75 Resp: 92

Ion Ratio Lower Upper

75 100

77 0.0 18.1 54.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 5.059 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF061848.D

Acq: 5 Mar 2019 16:37

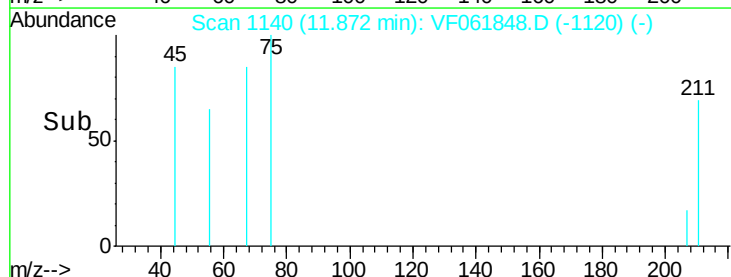
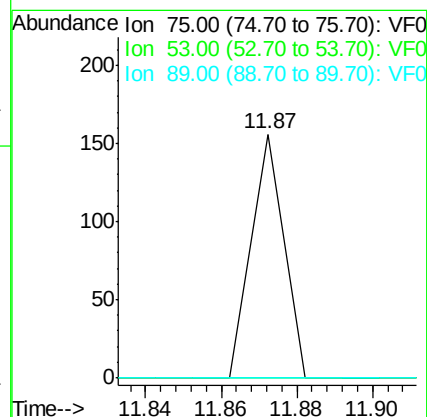
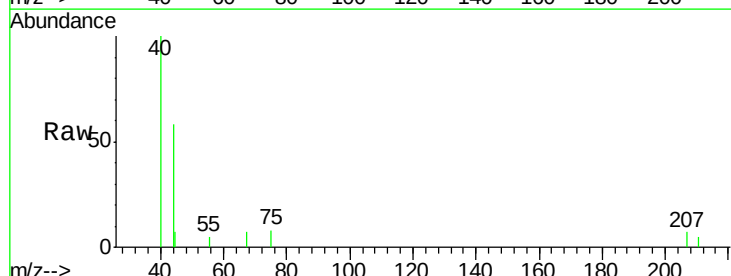
Tgt Ion: 75 Resp: 92

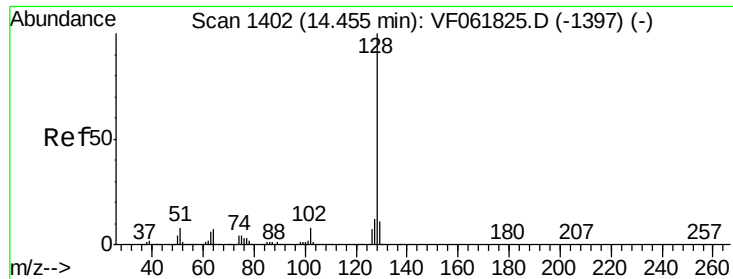
Ion Ratio Lower Upper

75 100

53 0.0 58.6 88.0#

89 0.0 41.4 62.0#





#95

Naphthalene

Concen: 1.118 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.00 min

Lab File: VF061848.D

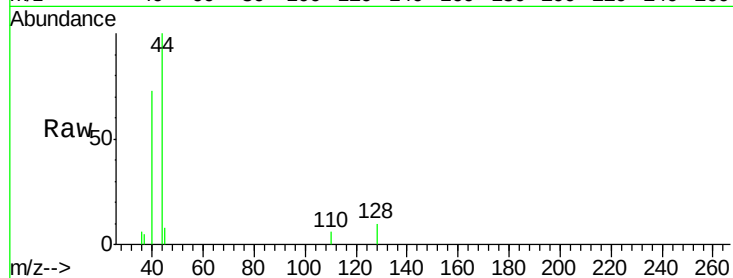
Acq: 5 Mar 2019 16:37

Instrument :

MSVOA_F

ClientSampleId :

TP-4-B-DRE



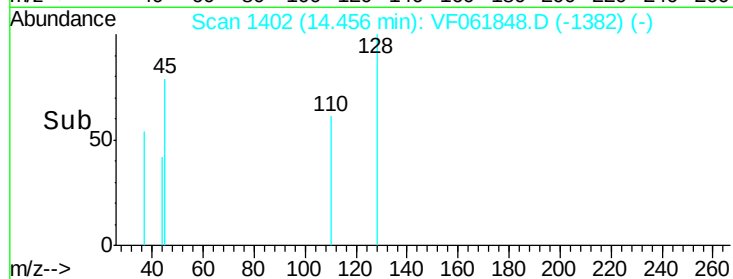
Tot Ion:128 Resp: 212

Ion Ratio Lower Upper

128 100

127 0.0 9.3 13.9#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

