

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD111918\
 Data File : VD060418.D
 Acq On : 19 Nov 2018 16:42
 Operator : JC/SY
 Sample : J5951-04
 Misc : 5.10g/5ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FDSB-04(26.5-28.5)

Quant Time: Nov 20 00:31:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110618S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 19 16:31:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	8599	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	7.46	114	13939	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.30	117	12921	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.39	152	7160	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.80	65	4747	77.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	154.20%	
35) Dibromofluoromethane	6.32	113	5056	48.64	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	97.28%	
50) Toluene-d8	9.47	98	13935	45.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.62%	
62) 4-Bromofluorobenzene	12.45	95	5381	48.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.64%	

Target Compounds

						Qvalue
3) Chloromethane	1.85	50	211	2.590	ug/l #	42
5) Bromomethane	2.20	94	1261	79.902	ug/l #	2
16) Acetone	3.17	43	502	47.004	ug/l #	55
20) Methylene Chloride	3.75	84	645	6.808	ug/l #	36
38) Carbon Tetrachloride	6.42	117	439	3.437	ug/l #	12
73) Isopropylbenzene	12.30	105	1084	2.078	ug/l	83
74) N-amy1 acetate	12.11	43	1146	8.569	ug/l #	45
76) 1,2,3-Trichloropropane	12.45	75	2005	23.409	ug/l #	42
78) n-propylbenzene	12.66	91	4164	6.395	ug/l	90
79) 2-Chlorotoluene	12.66	91	4164	11.676	ug/l #	40
81) trans-1,4-Dichloro-2-buten	12.45	75	2005	82.224	ug/l #	15
82) 4-Chlorotoluene	12.66	91	3825	9.548	ug/l #	45
84) 1,2,4-Trimethylbenzene	13.10	105	496	1.225	ug/l #	32
85) sec-Butylbenzene	13.24	105	4383	7.937	ug/l	99
86) p-Isopropyltoluene	13.51	119	1399	3.146	ug/l #	53
88) 1,4-Dichlorobenzene	13.41	146	243	1.009	ug/l #	71
89) n-Butylbenzene	13.67	91	8019	16.005	ug/l	85
90) Hexachloroethane	13.92	117	2157	20.456	ug/l #	9
95) Naphthalene	14.98	128	777	3.963	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 497

Delta R.T. -0.01 min

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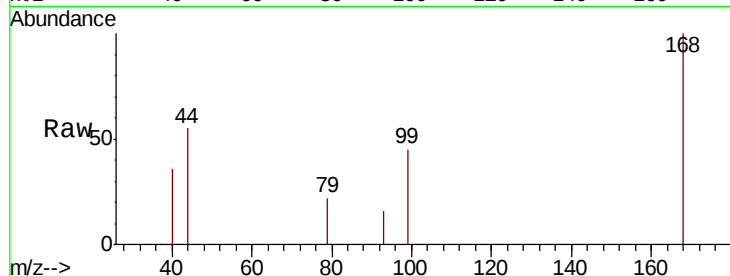
Instrument :
MSVOA_D
ClientSampleId :
FDSB-04(26.5-28.5)

Tgt Ion: 168 Resp: 8599

Ion Ratio Lower Upper

168 100

99 44.8 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.41

3000

2500

2000

1500

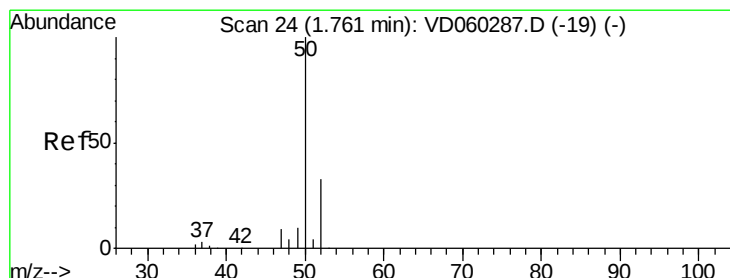
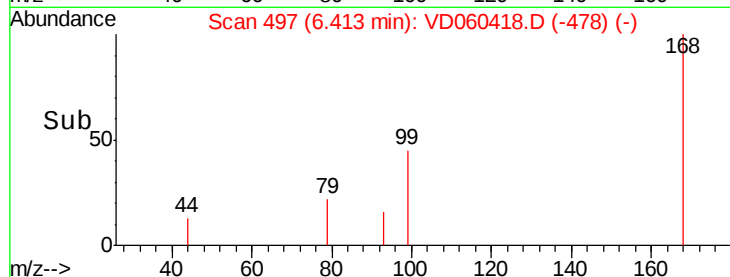
1000

500

0

6.35 6.40 6.45 6.50

Time-->



#3

Chloromethane

Concen: 2.590 ug/l

RT: 1.85 min Scan# 33

Delta R.T. 0.09 min

Lab File: VD060418.D

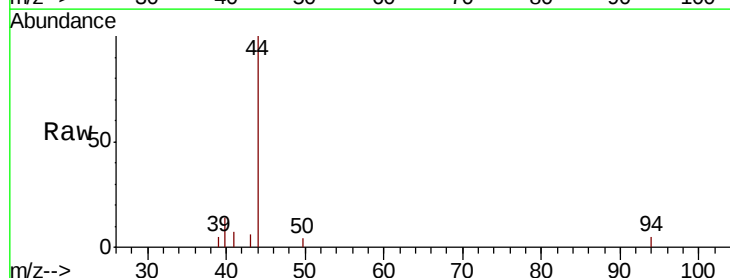
Acq: 19 Nov 2018 16:42

Tgt Ion: 50 Resp: 211

Ion Ratio Lower Upper

50 100

52 0.0 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.85

400

300

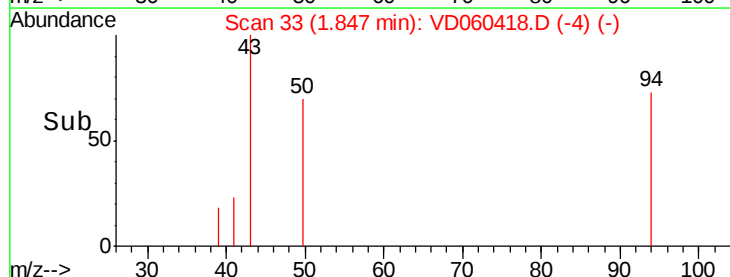
200

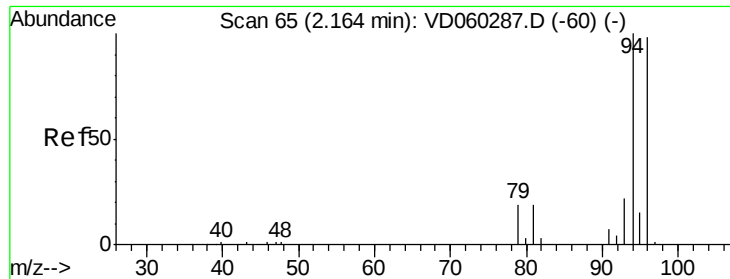
100

0

1.82 1.84 1.86 1.88

Time-->





#5

Bromomethane

Concen: 79.902 ug/l

RT: 2.20 min Scan# 69

Delta R.T. 0.04 min

Lab File: VD060418.D

Acq: 19 Nov 2018 16:42

Instrument :

MSVOA_D

ClientSampleId :

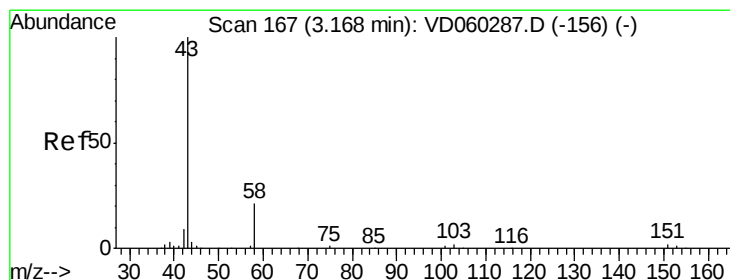
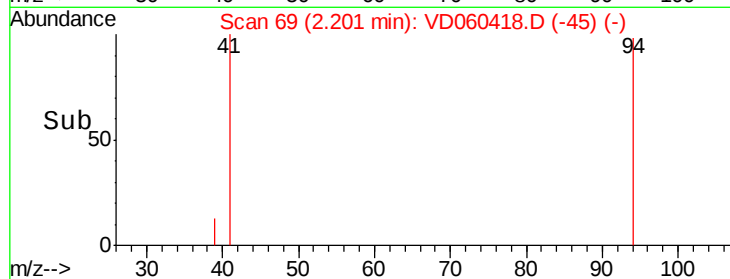
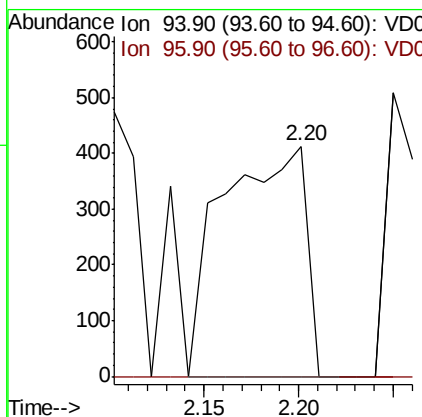
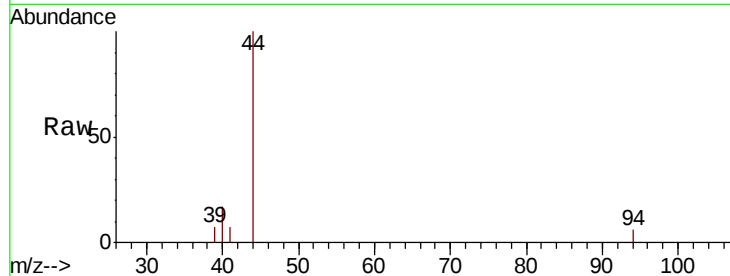
FDSB-04(26.5-28.5)

Tgt Ion: 94 Resp: 1261

Ion Ratio Lower Upper

94 100

96 0.0 76.6 114.8#



#16

Acetone

Concen: 47.004 ug/l

RT: 3.17 min Scan# 167

Delta R.T. -0.00 min

Lab File: VD060418.D

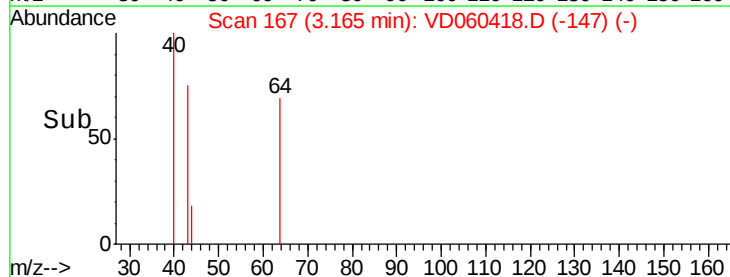
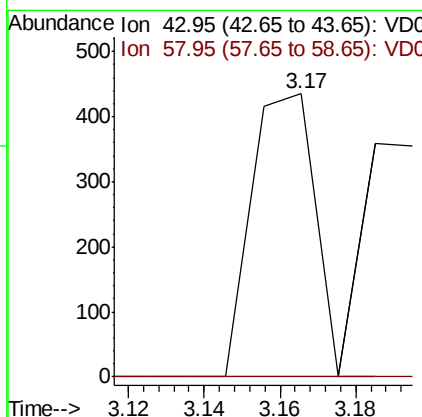
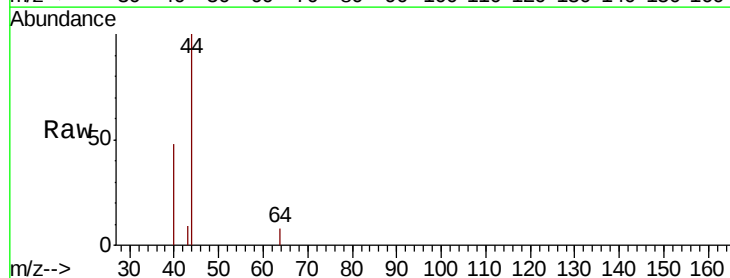
Acq: 19 Nov 2018 16:42

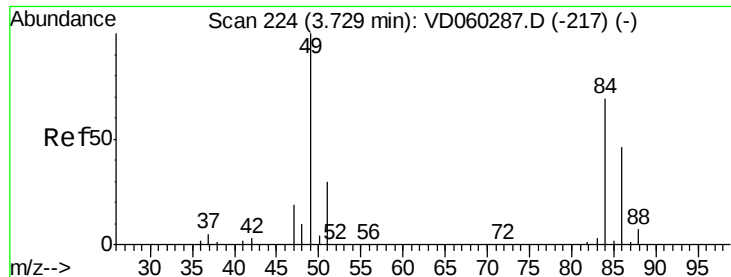
Tgt Ion: 43 Resp: 502

Ion Ratio Lower Upper

43 100

58 0.0 16.9 25.3#

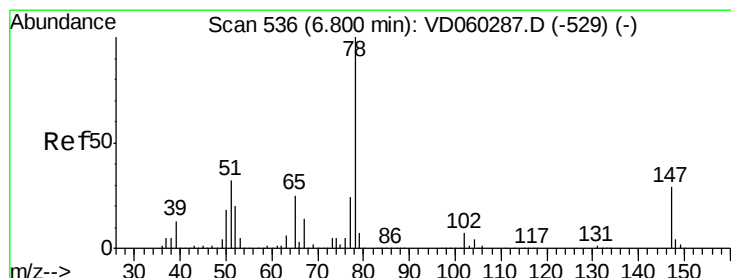
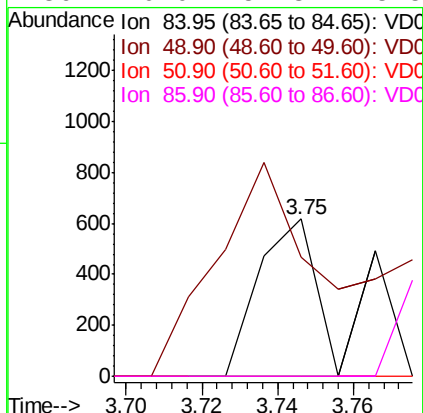
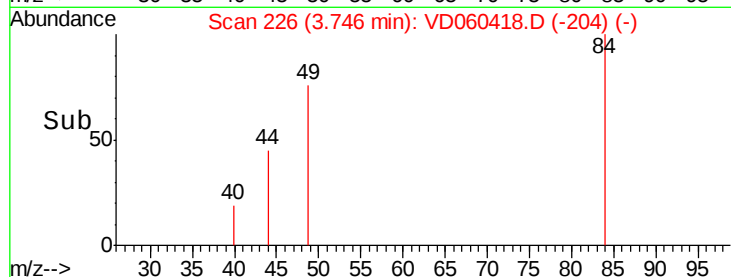
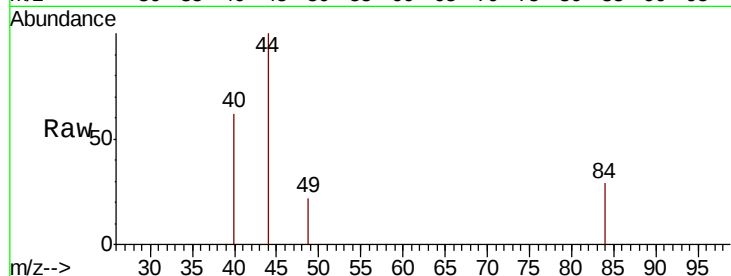




#20
Methylene Chloride
Concen: 6.808 ug/l
RT: 3.75 min Scan# 226
Delta R.T. 0.02 min
Lab File: VD060418.D
Acq: 19 Nov 2018 16:42

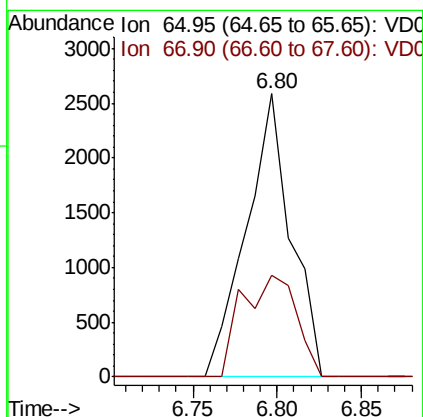
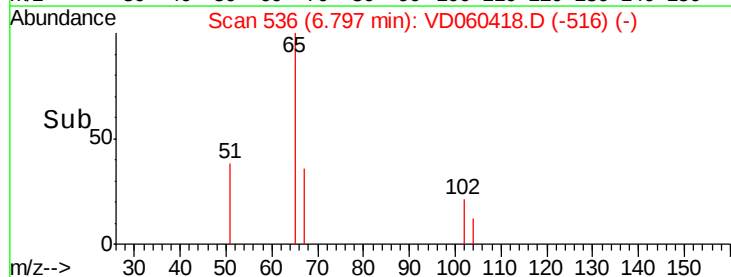
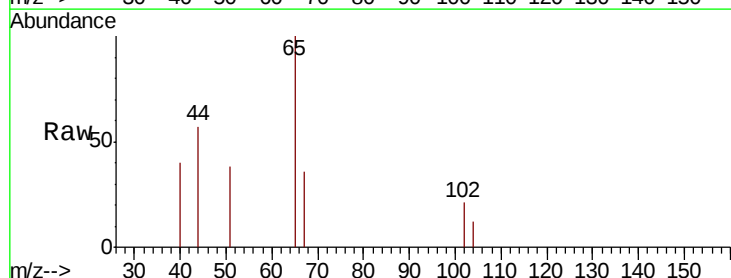
Instrument :
MSVOA_D
ClientSampleId :
FDSB-04(26.5-28.5)

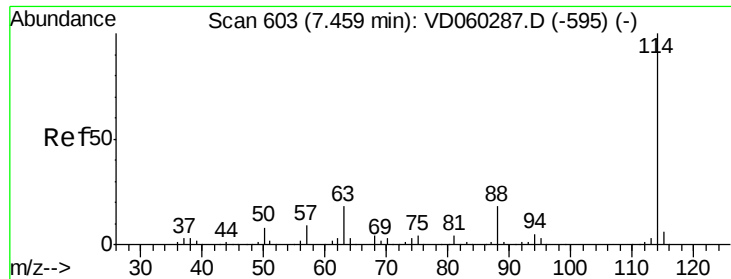
Tgt Ion: 84 Resp: 645
Ion Ratio Lower Upper
84 100
49 76.2 115.6 173.4#
51 0.0 35.6 53.4#
86 0.0 52.3 78.5#



#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.80 min Scan# 536
Delta R.T. -0.00 min
Lab File: VD060418.D
Acq: 19 Nov 2018 16:42

Tgt Ion: 65 Resp: 4747
Ion Ratio Lower Upper
65 100
67 36.0 0.0 109.8

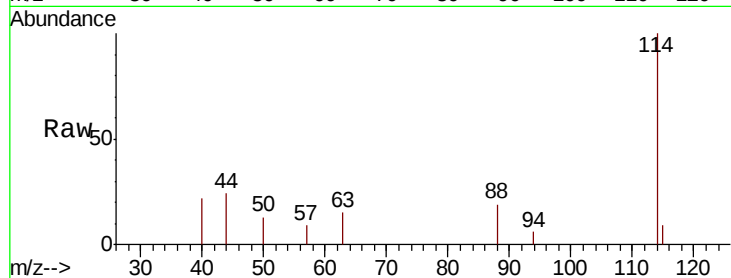




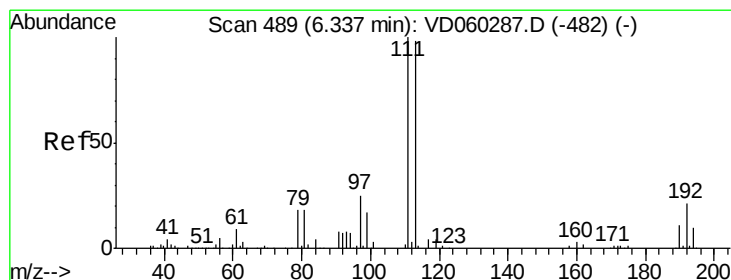
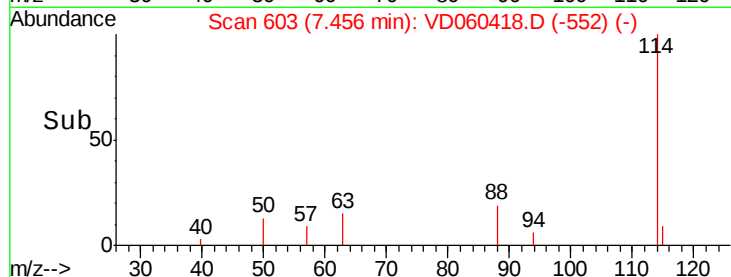
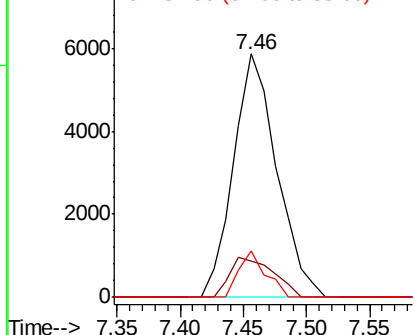
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.46 min Scan# 603
 Delta R.T. -0.00 min
 Lab File: VD060418.D
 Acq: 19 Nov 2018 16:42

Instrument :
 MSVOA_D
 ClientSampleId :
 FDSB-04(26.5-28.5)

Tgt Ion:114 Resp: 13939
 Ion Ratio Lower Upper
 114 100
 63 15.0 0.0 34.0
 88 19.0 0.0 35.4

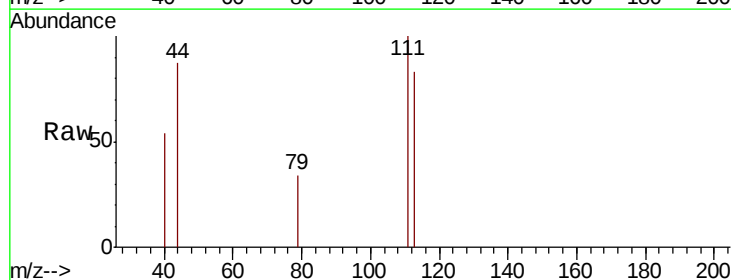


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

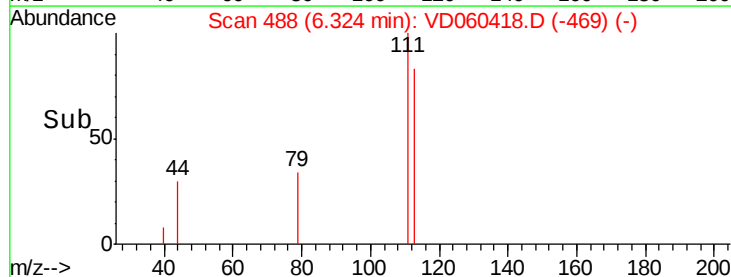
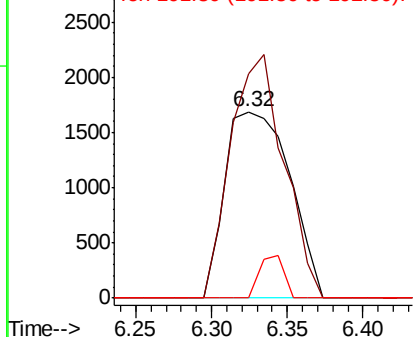


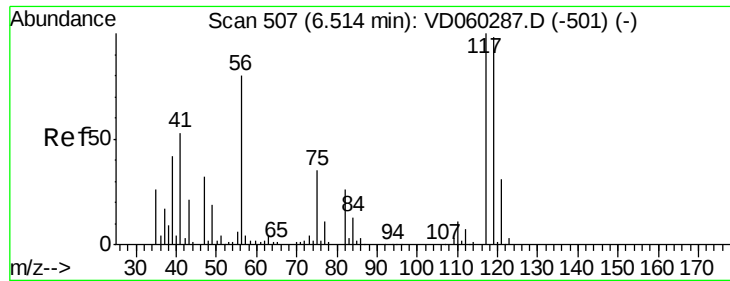
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.32 min Scan# 488
 Delta R.T. -0.01 min
 Lab File: VD060418.D
 Acq: 19 Nov 2018 16:42

Tgt Ion:113 Resp: 5056
 Ion Ratio Lower Upper
 113 100
 111 120.2 81.6 122.4
 192 0.0 16.5 24.7#



Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

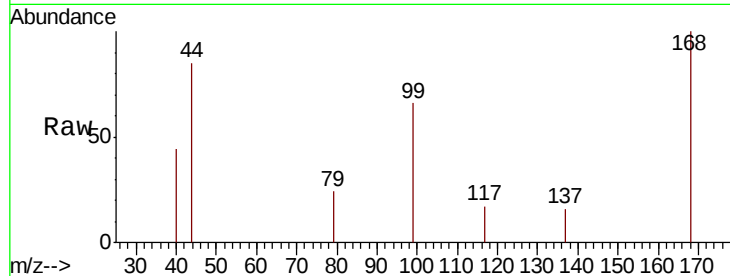




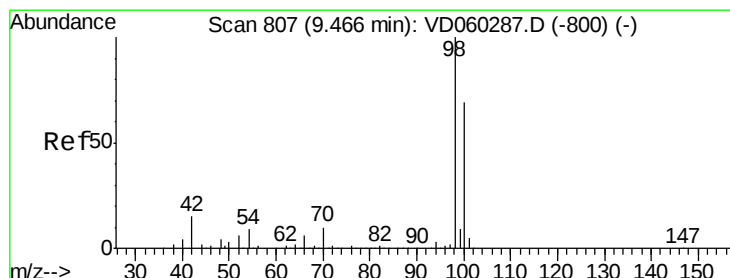
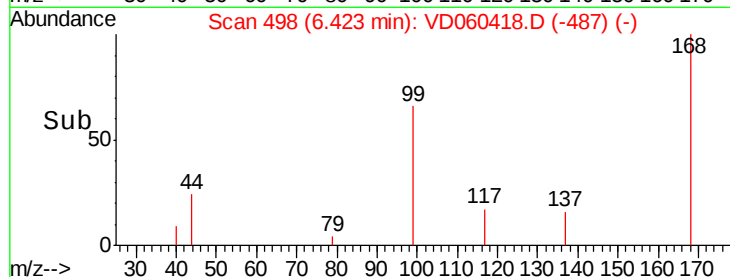
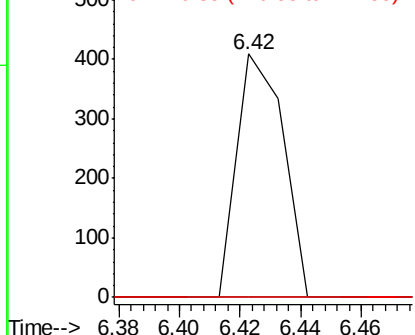
#38
Carbon Tetrachloride
Concen: 3.437 ug/l
RT: 6.42 min Scan# 498
Delta R.T. -0.09 min
Lab File: VD060418.D
Acq: 19 Nov 2018 16:42

Instrument :
MSVOA_D
ClientSampleId :
FDSB-04(26.5-28.5)

Tgt Ion:117 Resp: 439
Ion Ratio Lower Upper
117 100
119 0.0 76.6 115.0#
121 0.0 24.3 36.5#

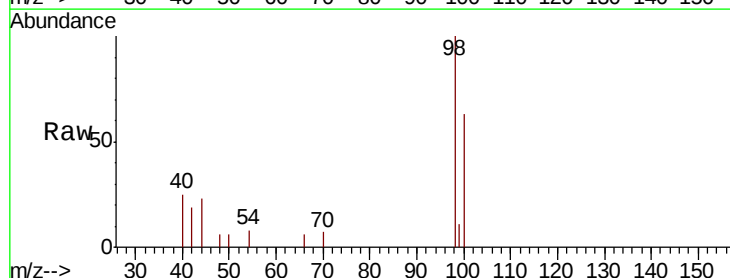


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

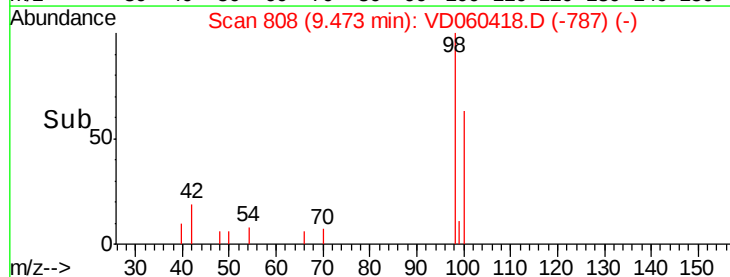
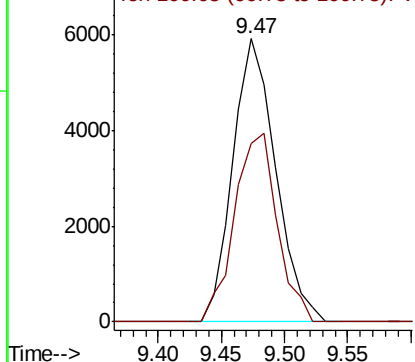


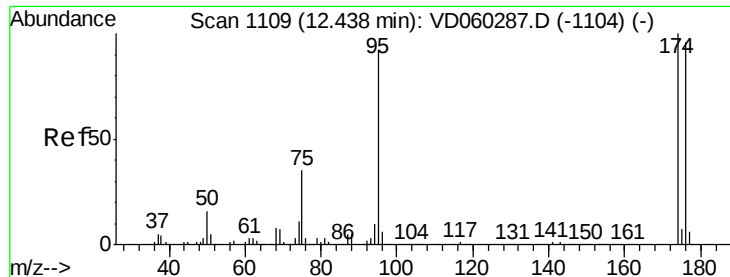
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.47 min Scan# 808
Delta R.T. 0.01 min
Lab File: VD060418.D
Acq: 19 Nov 2018 16:42

Tgt Ion: 98 Resp: 13935
Ion Ratio Lower Upper
98 100
100 62.9 55.2 82.8



Abundance Ion 98.05 (97.75 to 98.75): V
Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.45 min Scan# 1110

Delta R.T. 0.01 min

Lab File: VD060418.D

Acq: 19 Nov 2018 16:42

Instrument :

MSVOA_D

ClientSampleId :

FDSB-04(26.5-28.5)

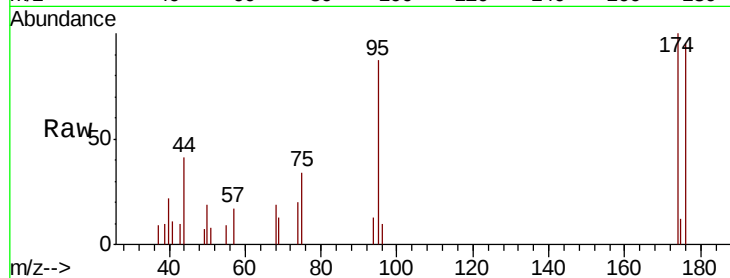
Tgt Ion: 95 Resp: 5381

Ion Ratio Lower Upper

95 100

174 114.6 0.0 160.8

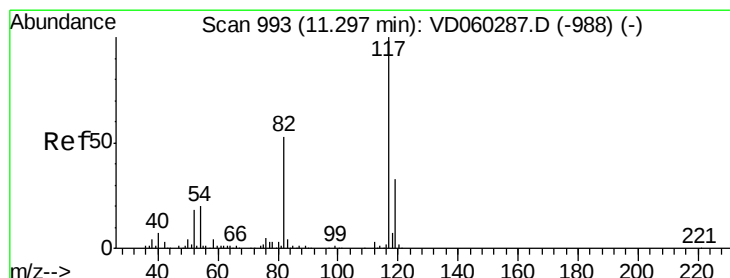
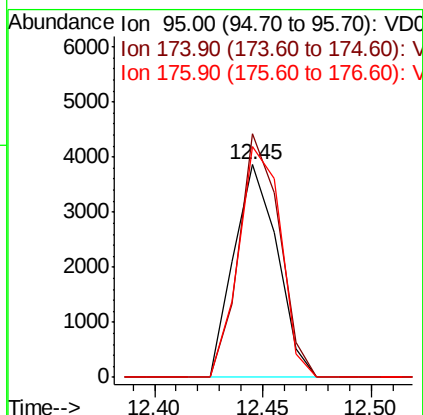
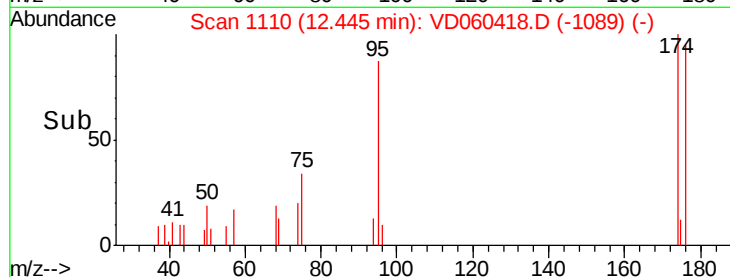
176 108.4 0.0 154.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.30 min Scan# 994

Delta R.T. 0.01 min

Lab File: VD060418.D

Acq: 19 Nov 2018 16:42

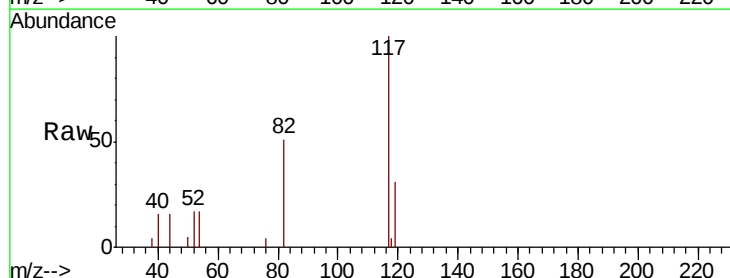
Tgt Ion: 117 Resp: 12921

Ion Ratio Lower Upper

117 100

82 51.2 43.7 65.5

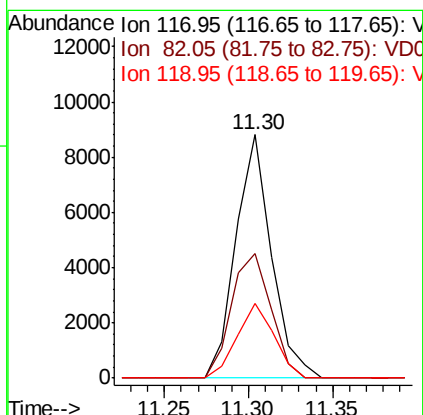
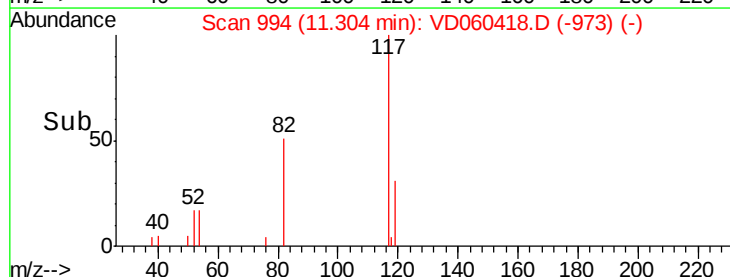
119 30.8 26.1 39.1

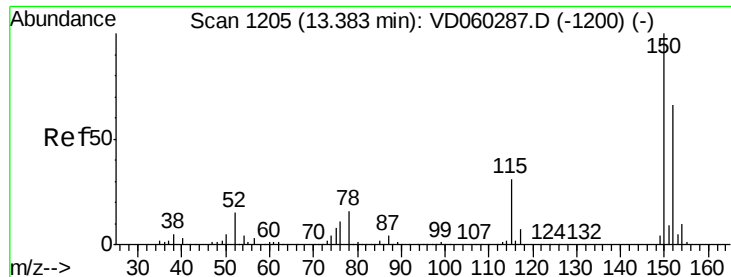


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.39 min Scan# 1206

Delta R.T. 0.01 min

Lab File: VD060418.D

Acq: 19 Nov 2018 16:42

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FDSB-04(26.5-28.5)

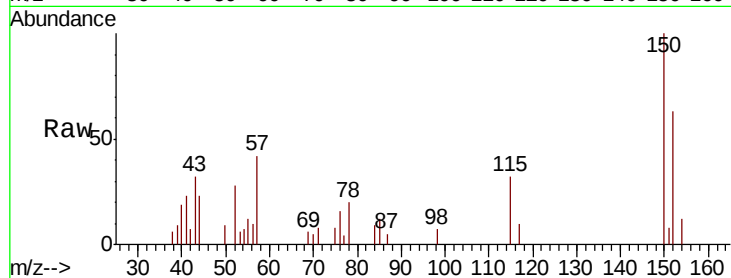
Tgt Ion:152 Resp: 7160

Ion Ratio Lower Upper

152 100

115 50.5 24.1 72.3

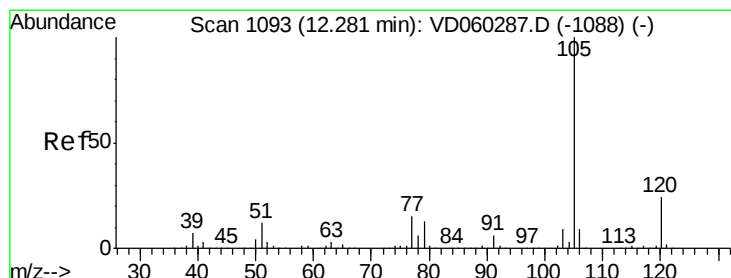
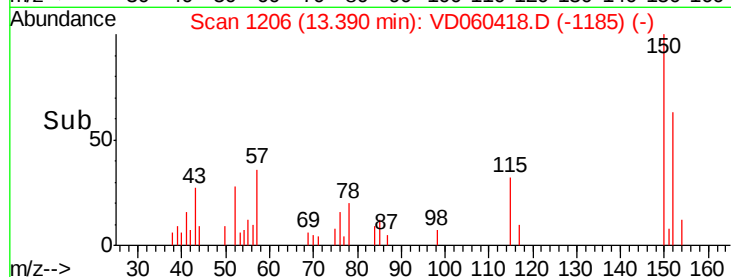
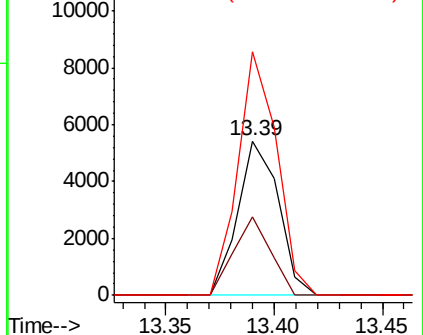
150 157.7 0.0 310.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 2.078 ug/l

RT: 12.30 min Scan# 1095

Delta R.T. 0.02 min

Lab File: VD060418.D

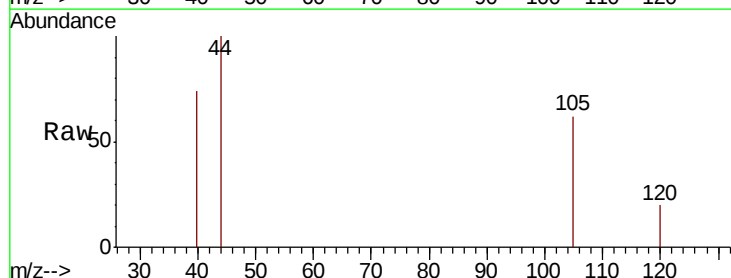
Acq: 19 Nov 2018 16:42

Tgt Ion:105 Resp: 1084

Ion Ratio Lower Upper

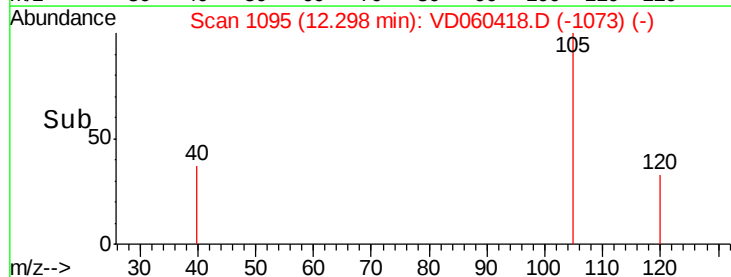
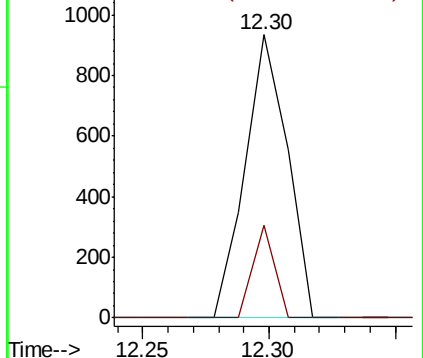
105 100

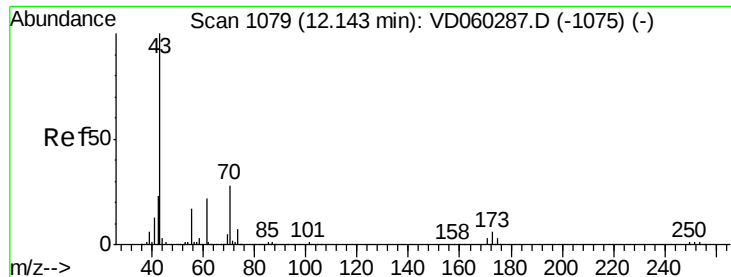
120 32.5 12.1 36.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#74

N-ethyl acetate

Concen: 8.569 ug/l

RT: 12.11 min Scan# 1076

Delta R.T. -0.03 min

Lab File: VD060418.D

Acq: 19 Nov 2018 16:42

Instrument :

MSVOA_D

ClientSampleId :

FDSB-04(26.5-28.5)

Tgt Ion: 43 Resp: 1146

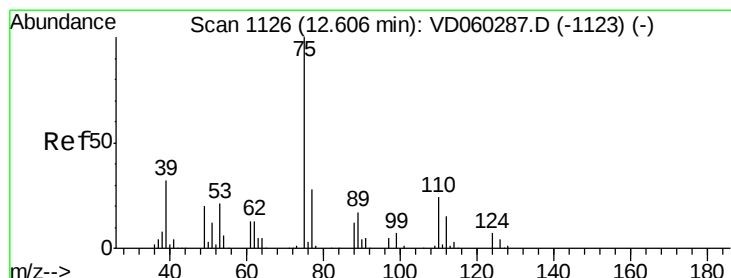
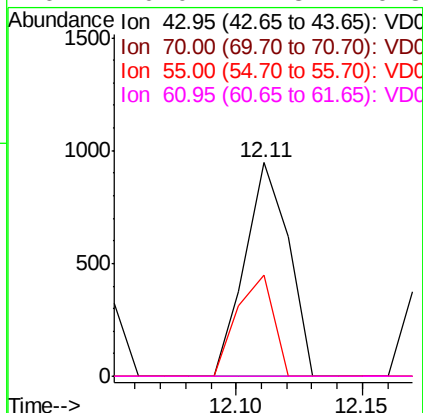
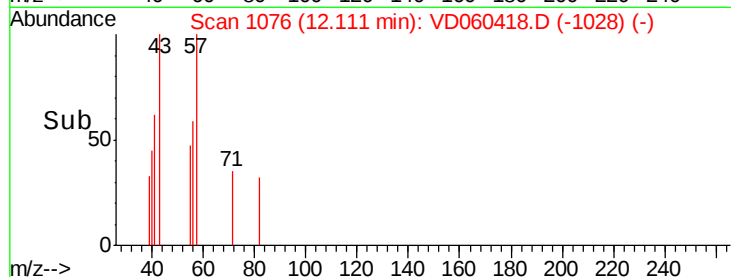
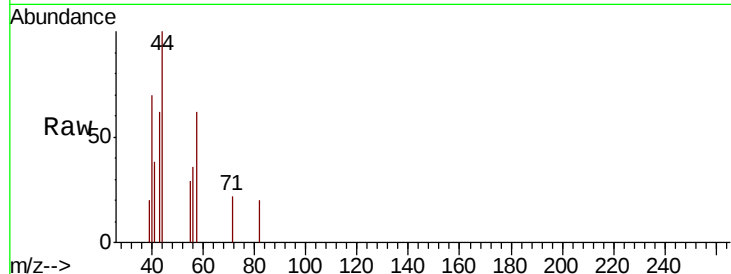
Ion Ratio Lower Upper

43 100

70 0.0 23.0 34.4#

55 47.5 14.2 21.4#

61 0.0 17.8 26.8#



#76

1,2,3-Trichloropropane

Concen: 23.409 ug/l

RT: 12.45 min Scan# 1110

Delta R.T. -0.16 min

Lab File: VD060418.D

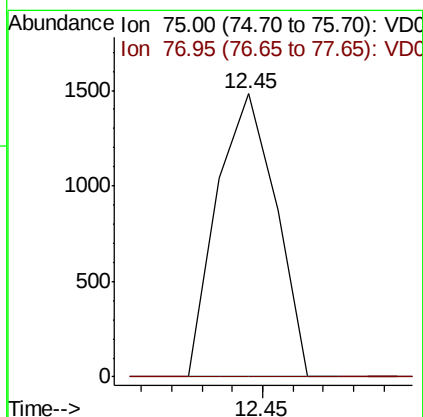
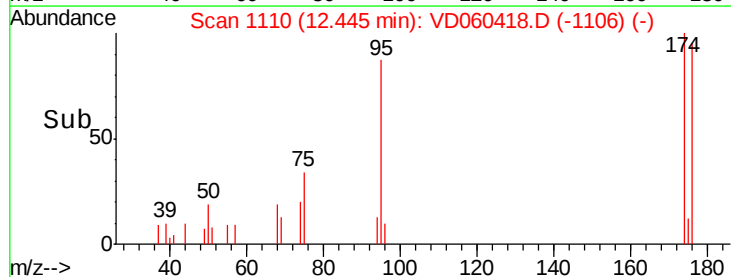
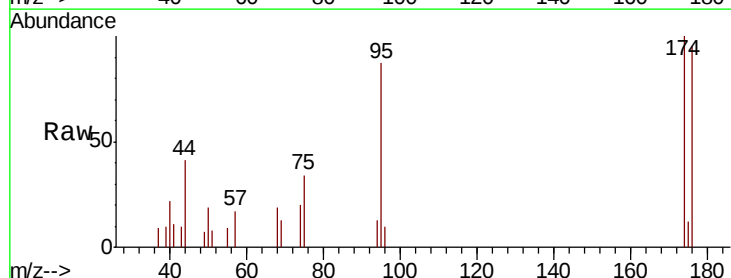
Acq: 19 Nov 2018 16:42

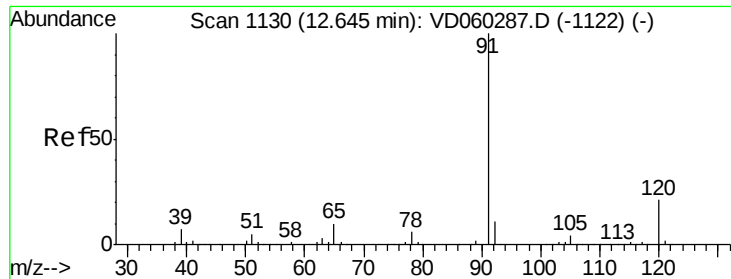
Tgt Ion: 75 Resp: 2005

Ion Ratio Lower Upper

75 100

77 0.0 16.4 49.1#





#78

n-propylbenzene

Concen: 6.395 ug/l

RT: 12.66 min Scan# 1132

Delta R.T. 0.02 min

Lab File: VD060418.D

Acq: 19 Nov 2018 16:42

Instrument :

MSVOA_D

ClientSampleId :

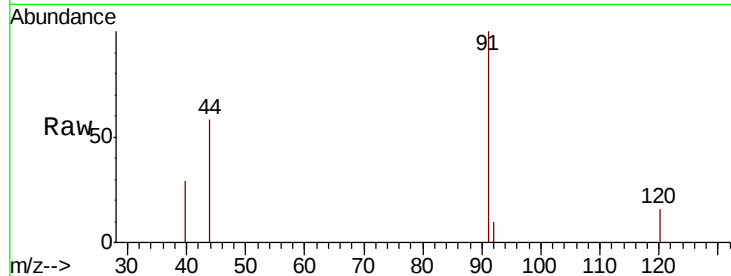
FDSB-04(26.5-28.5)

Tgt Ion: 91 Resp: 4164

Ion Ratio Lower Upper

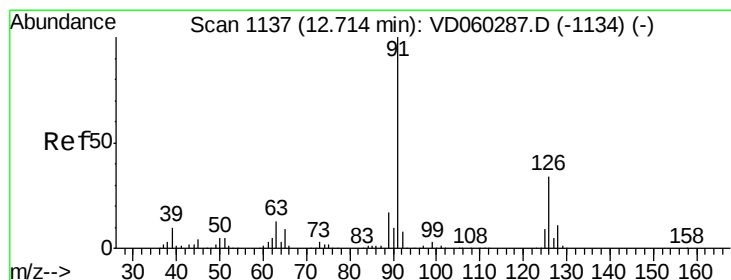
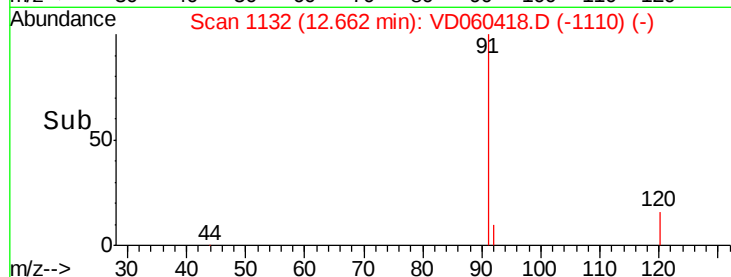
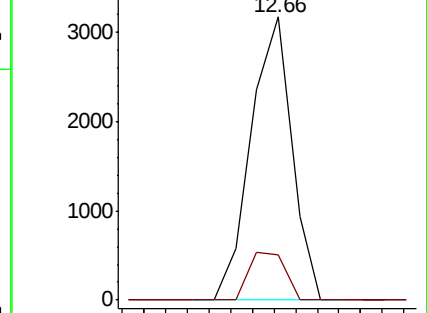
91 100

120 16.1 10.4 31.4



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): VDC



#79

2-Chlorotoluene

Concen: 11.676 ug/l

RT: 12.66 min Scan# 1132

Delta R.T. -0.05 min

Lab File: VD060418.D

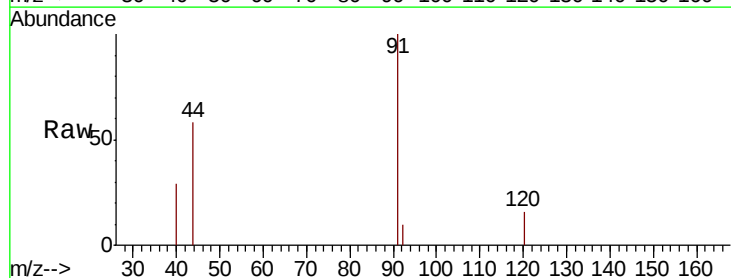
Acq: 19 Nov 2018 16:42

Tgt Ion: 91 Resp: 4164

Ion Ratio Lower Upper

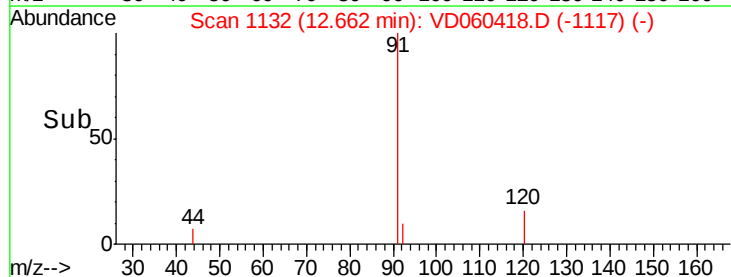
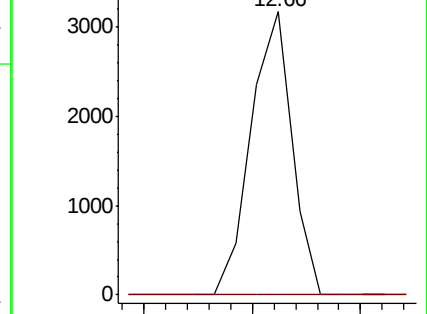
91 100

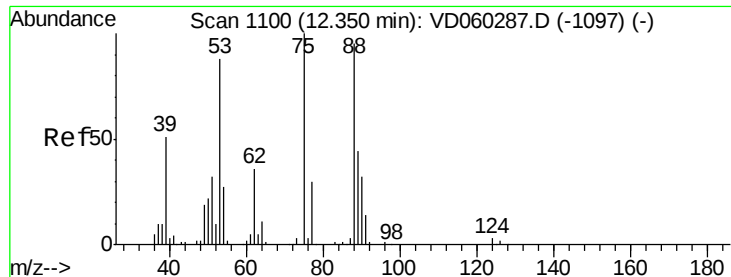
126 0.0 17.4 52.2#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 82.224 ug/l

RT: 12.45 min Scan# 1110

Delta R.T. 0.10 min

Lab File: VD060418.D

Acq: 19 Nov 2018 16:42

Instrument :

MSVOA_D

ClientSampleId :

FDSB-04(26.5-28.5)

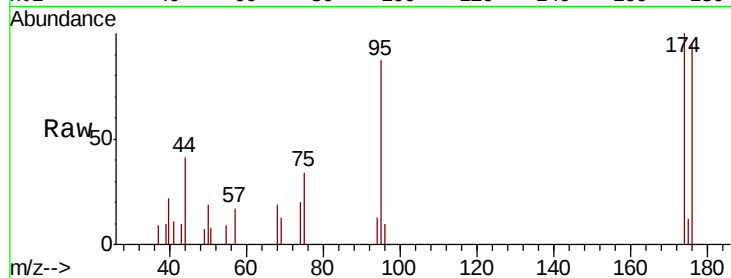
Tgt Ion: 75 Resp: 2005

Ion Ratio Lower Upper

75 100

53 0.0 68.6 103.0#

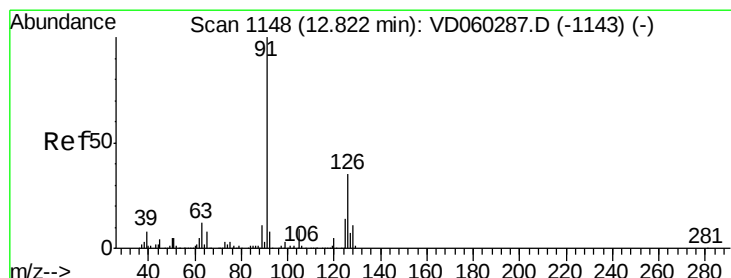
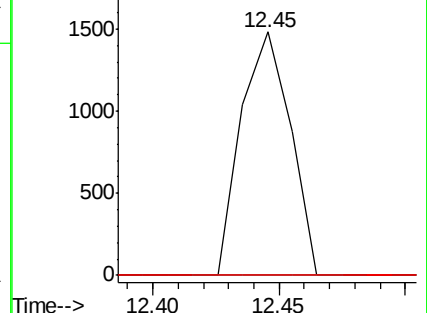
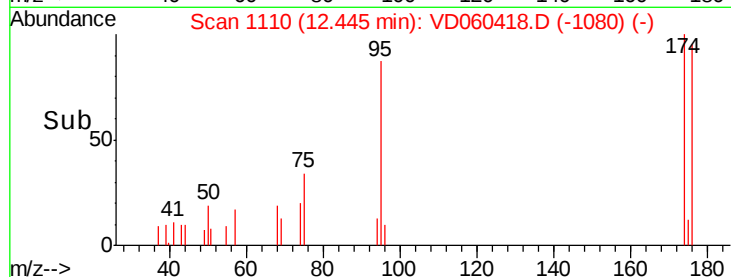
89 0.0 34.1 51.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 9.548 ug/l

RT: 12.66 min Scan# 1132

Delta R.T. -0.16 min

Lab File: VD060418.D

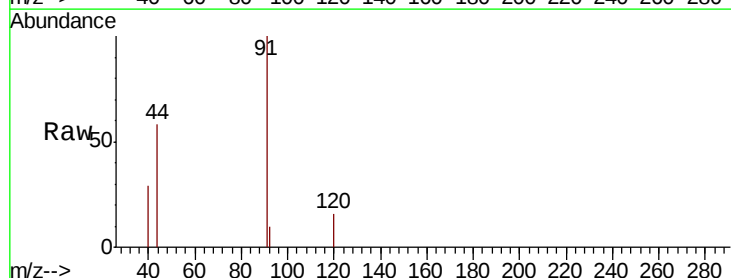
Acq: 19 Nov 2018 16:42

Tgt Ion: 91 Resp: 3825

Ion Ratio Lower Upper

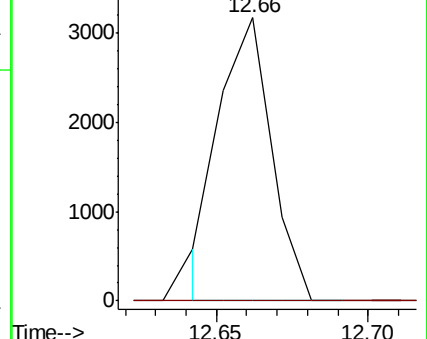
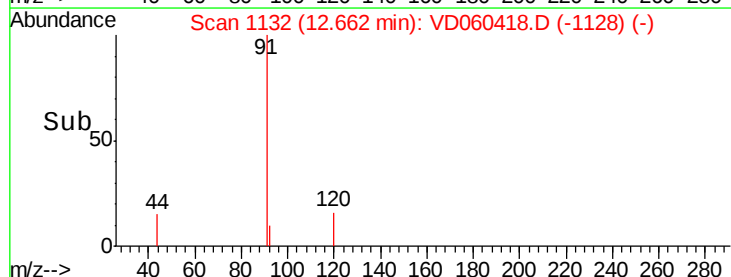
91 100

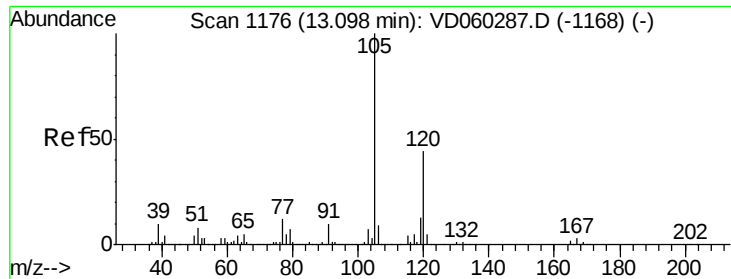
126 0.0 14.8 44.4#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

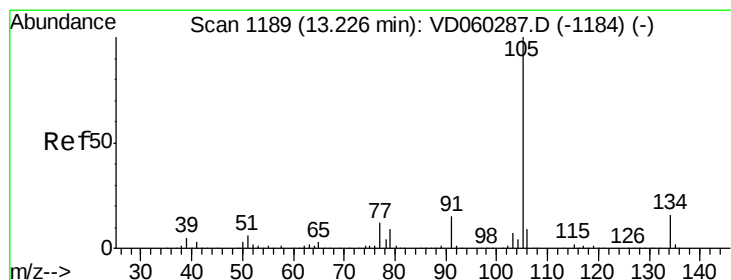
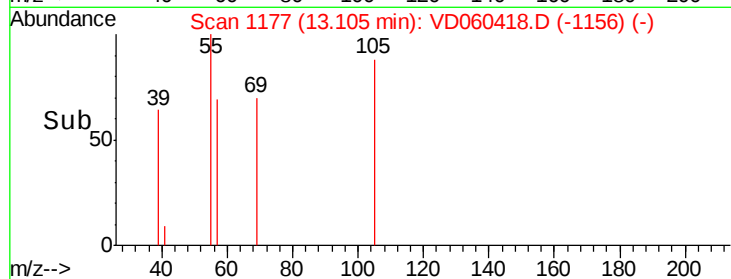
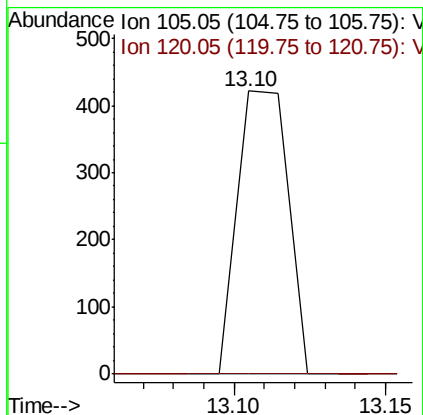
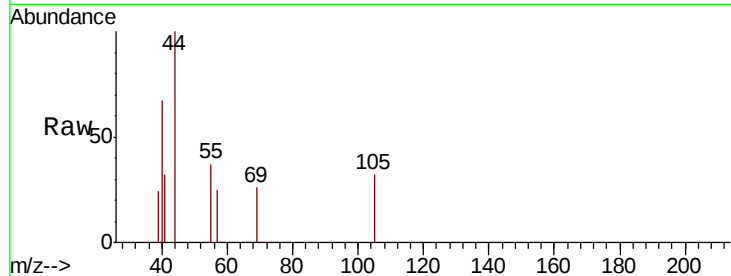




#84
1,2,4-Trimethylbenzene
Concen: 1.225 ug/l
RT: 13.10 min Scan# 1177
Delta R.T. 0.01 min
Lab File: VD060418.D
Acq: 19 Nov 2018 16:42

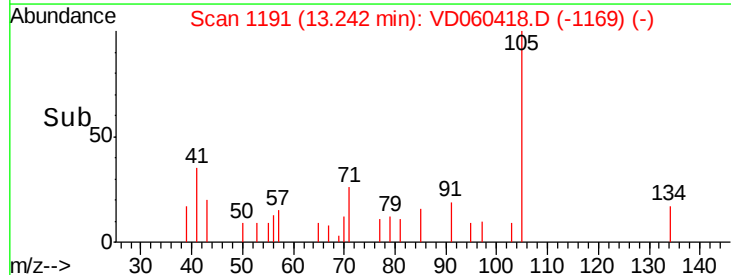
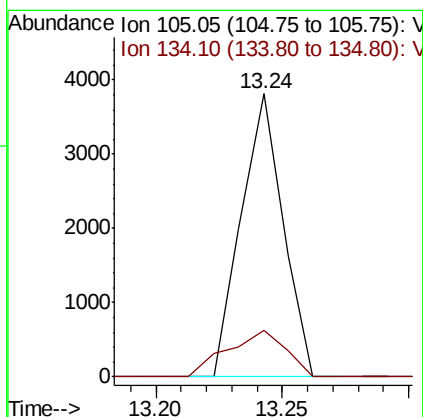
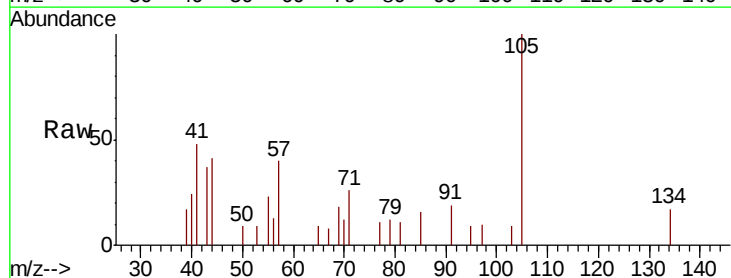
Instrument :
MSVOA_D
ClientSampleId :
FDSB-04(26.5-28.5)

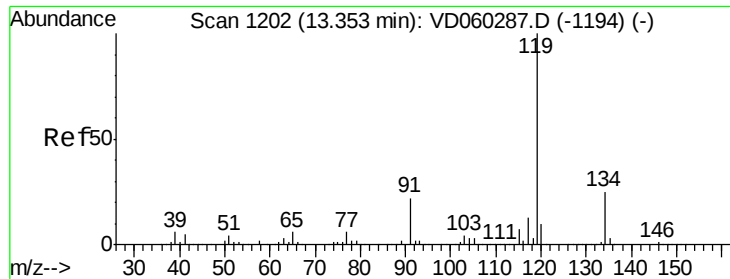
Tgt Ion:105 Resp: 496
Ion Ratio Lower Upper
105 100
120 0.0 21.9 65.8#



#85
sec-Butylbenzene
Concen: 7.937 ug/l
RT: 13.24 min Scan# 1191
Delta R.T. 0.02 min
Lab File: VD060418.D
Acq: 19 Nov 2018 16:42

Tgt Ion:105 Resp: 4383
Ion Ratio Lower Upper
105 100
134 16.6 8.0 24.0

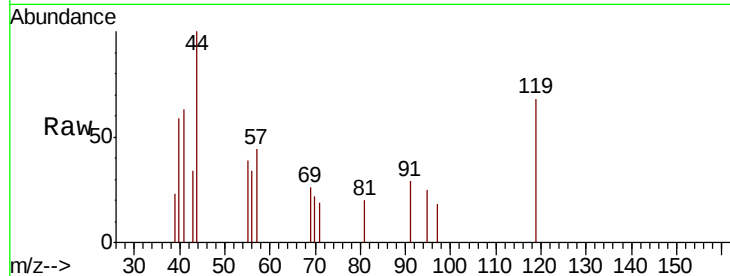




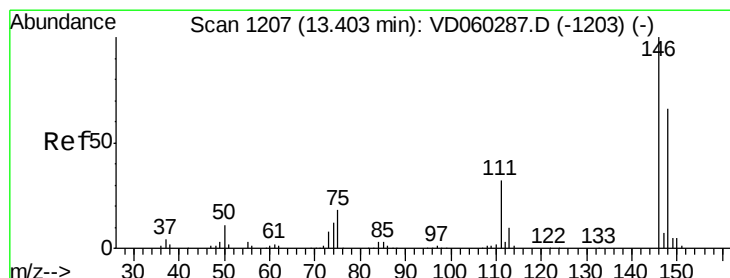
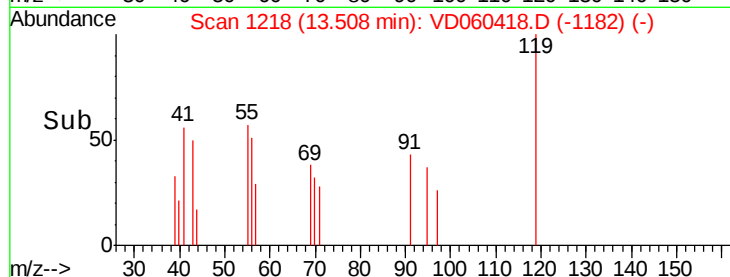
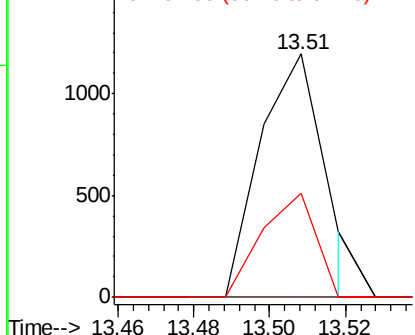
#86
p-Isopropyltoluene
Concen: 3.146 ug/l
RT: 13.51 min Scan# 1218
Delta R.T. 0.15 min
Lab File: VD060418.D
Acq: 19 Nov 2018 16:42

Instrument :
MSVOA_D
ClientSampleId :
FDSB-04(26.5-28.5)

Tgt Ion:119 Resp: 1399
Ion Ratio Lower Upper
119 100
134 0.0 12.9 38.6#
91 42.9 11.3 33.8#

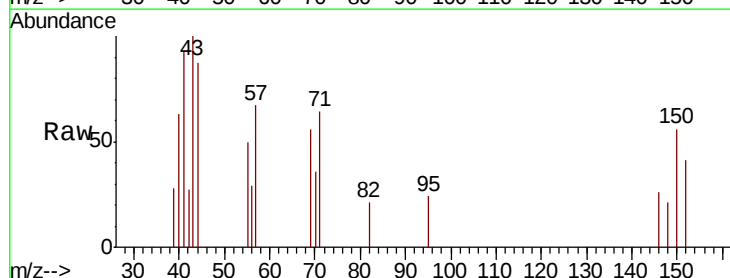


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 134.10 (133.80 to 134.80): V
Ion 91.00 (90.70 to 91.70): V

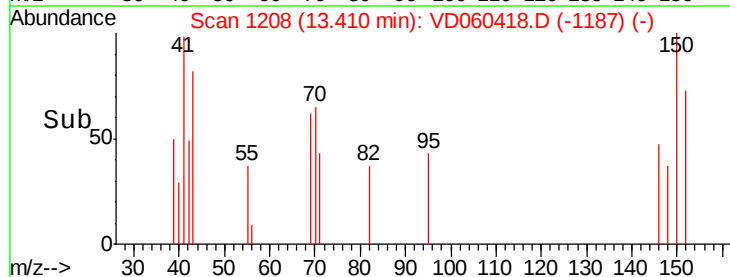
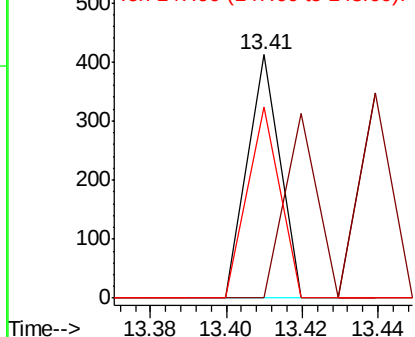


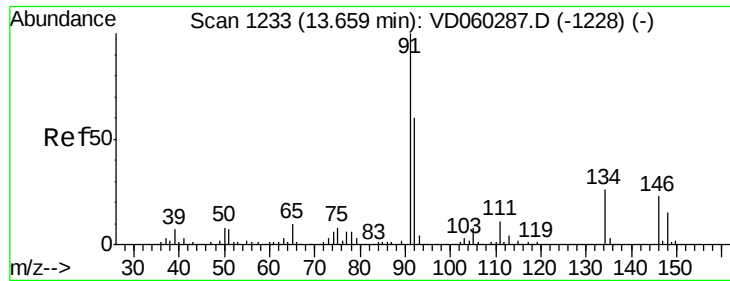
#88
1,4-Dichlorobenzene
Concen: 1.009 ug/l
RT: 13.41 min Scan# 1208
Delta R.T. 0.01 min
Lab File: VD060418.D
Acq: 19 Nov 2018 16:42

Tgt Ion:146 Resp: 243
Ion Ratio Lower Upper
146 100
111 0.0 16.0 47.9#
148 78.4 32.9 98.7



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

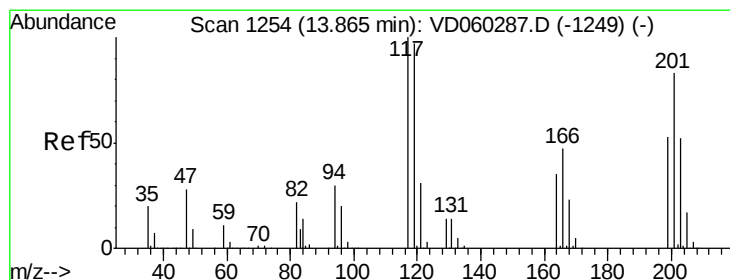
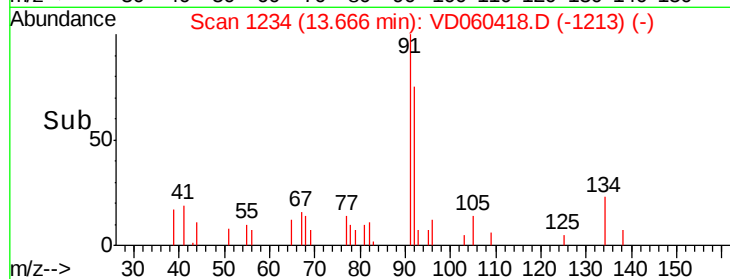
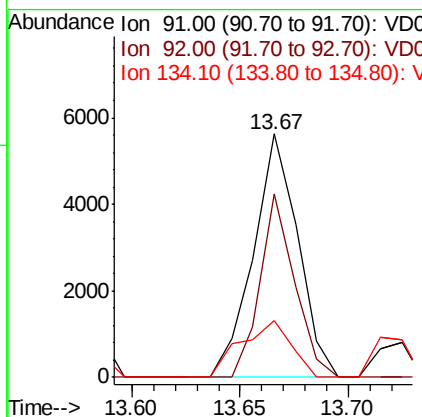
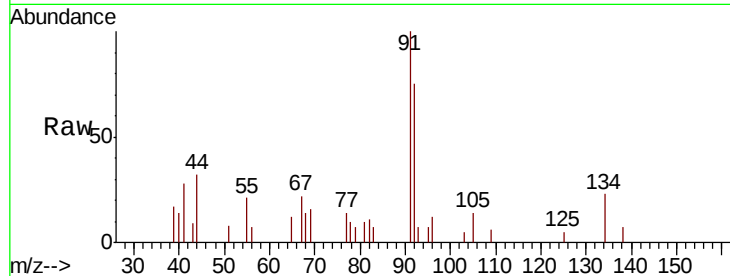




#89
n-Butylbenzene
Concen: 16.005 ug/l
RT: 13.67 min Scan# 1234
Delta R.T. 0.01 min
Lab File: VD060418.D
Acq: 19 Nov 2018 16:42

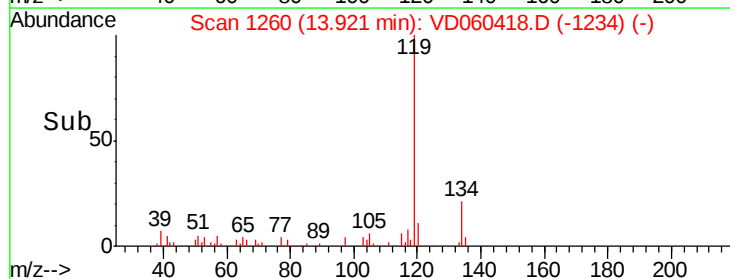
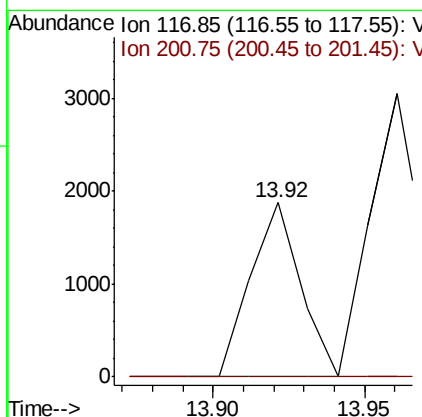
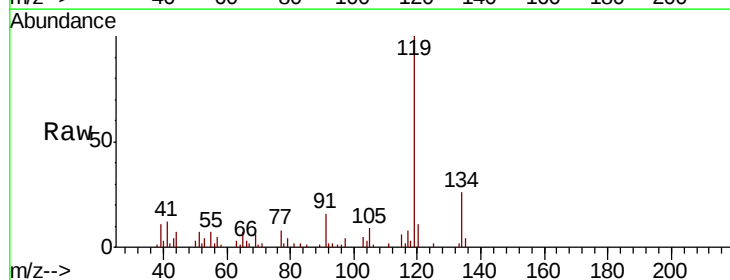
Instrument :
MSVOA_D
ClientSampleId :
FDSB-04(26.5-28.5)

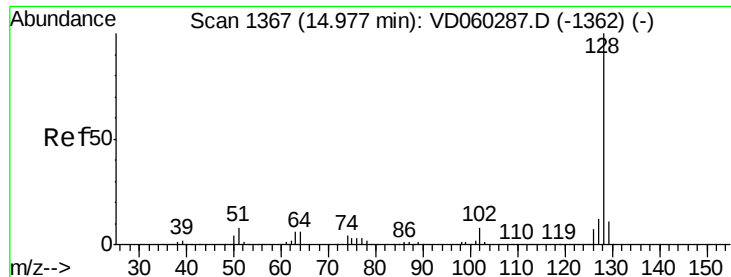
Tgt Ion: 91 Resp: 8019
Ion Ratio Lower Upper
91 100
92 75.3 30.3 90.9
134 23.5 13.0 38.9



#90
Hexachloroethane
Concen: 20.456 ug/l
RT: 13.92 min Scan# 1260
Delta R.T. 0.06 min
Lab File: VD060418.D
Acq: 19 Nov 2018 16:42

Tgt Ion: 117 Resp: 2157
Ion Ratio Lower Upper
117 100
201 0.0 40.1 120.3#





#95

Naphthalene

Concen: 3.963 ug/l

RT: 14.98 min Scan# 1368

Delta R.T. 0.01 min

Lab File: VD060418.D

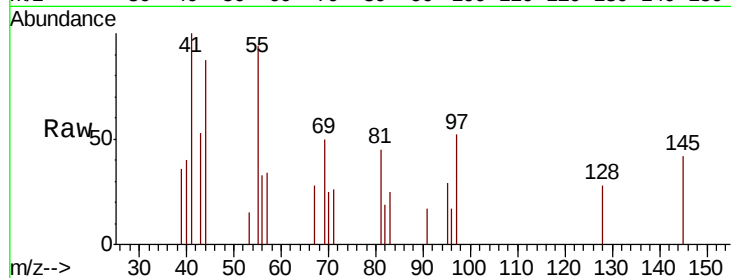
Acq: 19 Nov 2018 16:42

Instrument :

MSVOA_D

ClientSampleId :

FDSB-04(26.5-28.5)



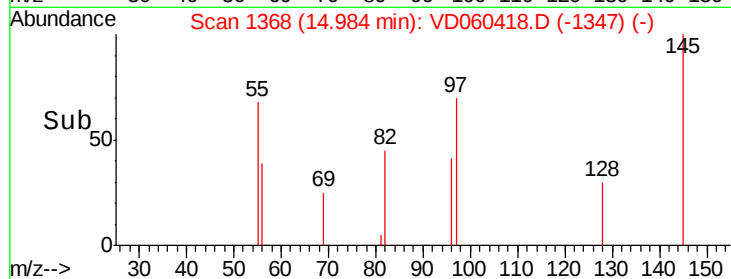
Tgt Ion:128 Resp: 777

Ion Ratio Lower Upper

128 100

127 0.0 9.6 14.4#

129 0.0 8.6 12.8#



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

