

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD111618\
 Data File : VD060396.D
 Acq On : 16 Nov 2018 14:18
 Operator : JC/SY
 Sample : J5911-07
 Misc : 5.00g/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FDSB-06(10-12)

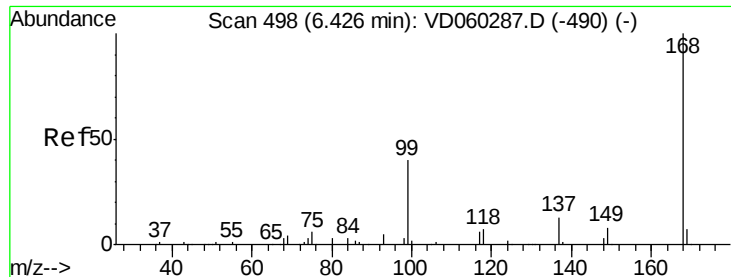
Quant Time: Nov 16 15:01:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 06 13:56:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.42	168	15233	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.46	114	26211	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.30	117	24376	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.39	152	13910	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.79	65	7625	69.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	139.82%	
35) Dibromofluoromethane	6.34	113	6925	35.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.86%	
50) Toluene-d8	9.47	98	20435	35.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.44%	
62) 4-Bromofluorobenzene	12.44	95	9501	45.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.68%	

Target Compounds						Qvalue
3) Chloromethane	1.78	50	386	2.68	ug/l #	42
5) Bromomethane	2.20	94	689	24.64	ug/l #	2
10) Methyl Iodide	3.29	142	1210	10.20	ug/l #	35
16) Acetone	3.17	43	3063	161.90	ug/l #	55
18) Methyl Acetate	3.56	43	433	10.73	ug/l #	63
20) Methylene Chloride	3.71	84	1438	8.57	ug/l #	30
25) 2-Butanone	5.62	43	204	5.19	ug/l #	60
36) 1,1-Dichloropropene	6.43	75	449	1.73	ug/l #	41
37) Ethyl Acetate	5.62	43	204	1.71	ug/l #	69
38) Carbon Tetrachloride	6.43	117	676	2.81	ug/l #	12
41) Methacrylonitrile	5.96	41	191	1.40	ug/l #	43
59) 2-Hexanone	10.46	43	212	3.05	ug/l #	31
74) N-amyl acetate	12.19	43	1627	6.26	ug/l #	2
76) 1,2,3-Trichloropropane	12.44	75	3446	20.71	ug/l #	42
78) n-propylbenzene	12.65	91	1489	1.18	ug/l #	55
79) 2-Chlorotoluene	12.65	91	1489	2.15	ug/l #	40
81) trans-1,4-Dichloro-2-buten	12.44	75	3885	82.01	ug/l #	15
90) Hexachloroethane	13.91	117	222	1.08	ug/l #	9
93) 1,2,4-Trichlorobenzene	14.79	180	436	1.40	ug/l #	1
95) Naphthalene	14.98	128	1625	4.27	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.42 min Scan# 497

Delta R.T. -0.01 min

Lab File: VD060396.D

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MSVOA_D

ClientSampleId :

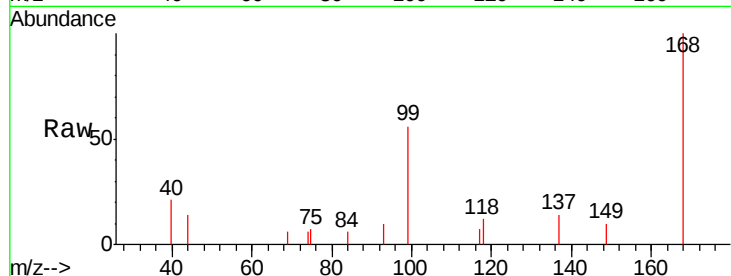
FDSB-06(10-12)

Tgt Ion:168 Resp: 15233

Ion Ratio Lower Upper

168 100

99 55.7 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

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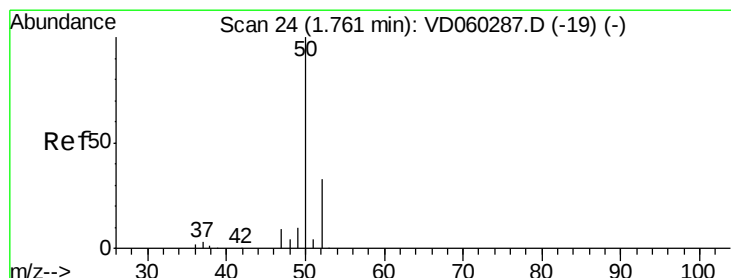
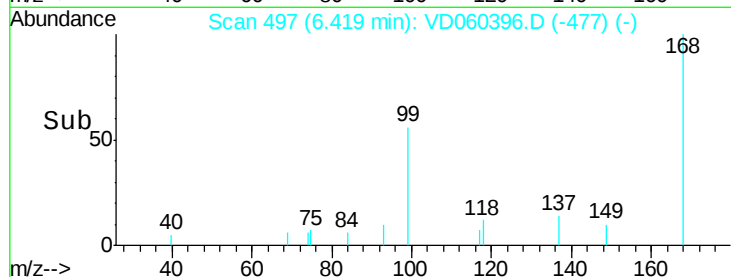
6.42

6.42

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6.42



#3

Chloromethane

Concen: 2.68 ug/l

RT: 1.78 min Scan# 26

Delta R.T. 0.02 min

Lab File: VD060396.D

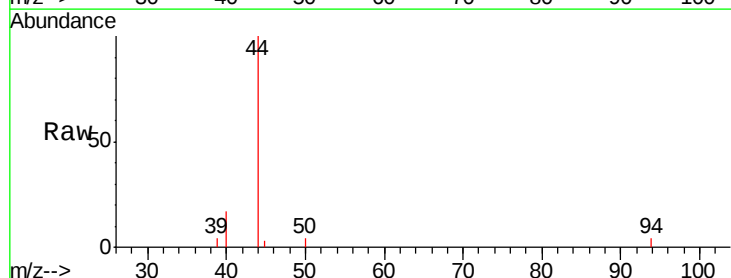
Acq: 16 Nov 2018 14:18

Tgt Ion: 50 Resp: 386

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

1.78

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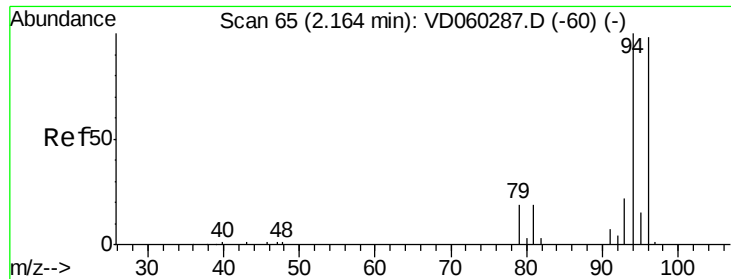
1.78

1.78

1.78

1.78

1.78



#5

Bromomethane

Concen: 24.64 ug/l

RT: 2.20 min Scan# 68

Delta R.T. 0.03 min

Lab File: VD060396.D

Acq: 16 Nov 2018 14:18

Instrument :

MSVOA_D

ClientSampleId :

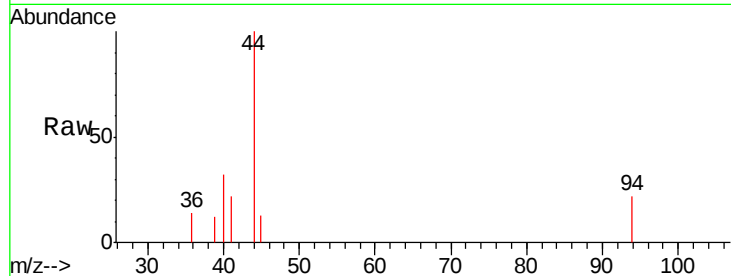
FDSB-06(10-12)

Tgt Ion: 94 Resp: 689

Ion Ratio Lower Upper

94 100

96 0.0 76.6 114.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.20

600

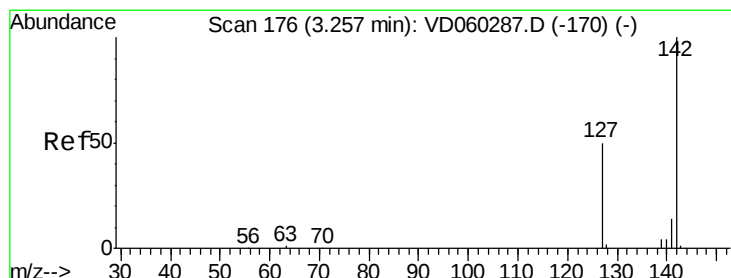
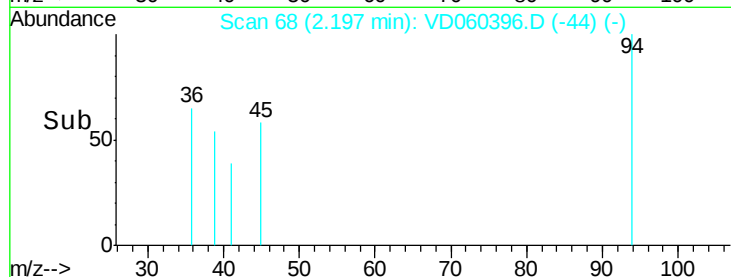
400

200

0

Time-->

2.16 2.18 2.20 2.22



#10

Methyl Iodide

Concen: 10.20 ug/l

RT: 3.29 min Scan# 179

Delta R.T. 0.03 min

Lab File: VD060396.D

Acq: 16 Nov 2018 14:18

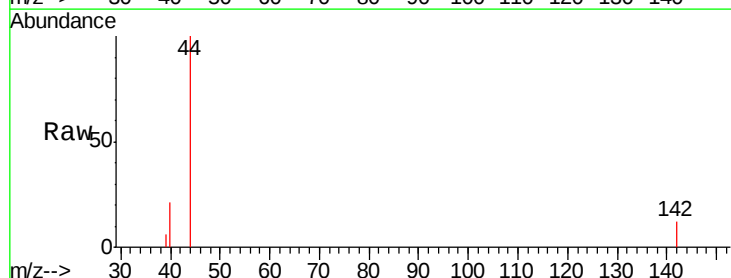
Tgt Ion: 142 Resp: 1210

Ion Ratio Lower Upper

142 100

127 0.0 41.0 61.6#

141 0.0 11.9 17.9#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

3.29

600

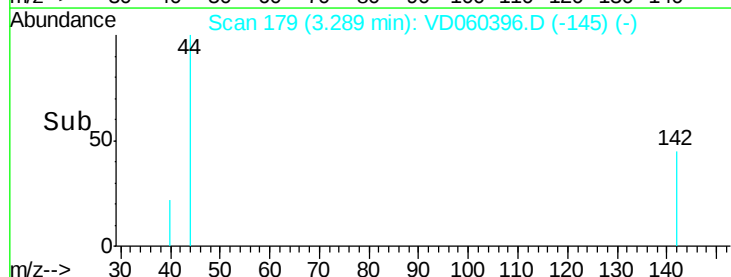
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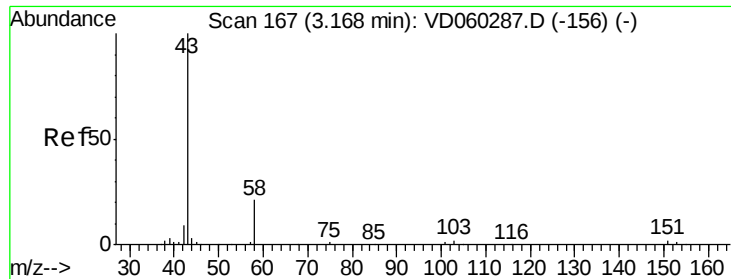
200

0

Time-->

3.25 3.30 3.35





#16

Acetone

Concen: 161.90 ug/l

RT: 3.17 min Scan# 167

Delta R.T. 0.00 min

Lab File: VD060396.D

Acq: 16 Nov 2018 14:18

Instrument :

MSVOA_D

ClientSampleId :

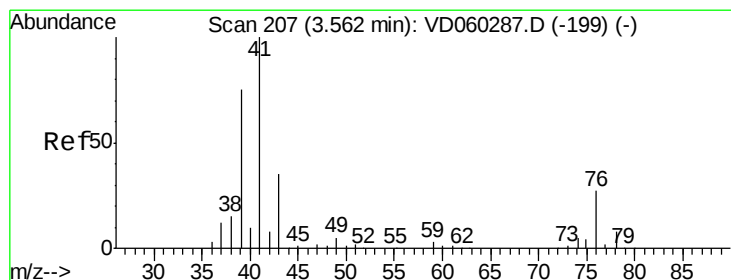
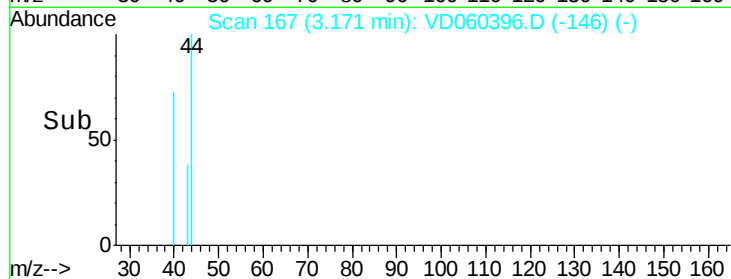
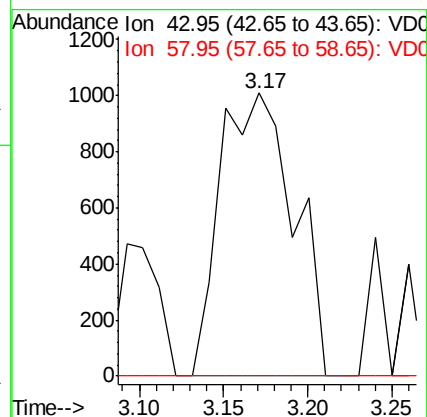
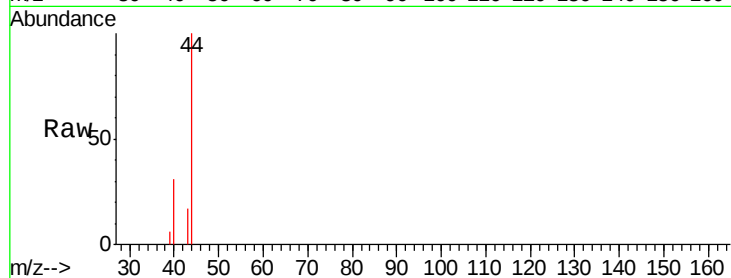
FDSB-06(10-12)

Tgt Ion: 43 Resp: 3063

Ion Ratio Lower Upper

43 100

58 0.0 16.9 25.3#



#18

Methyl Acetate

Concen: 10.73 ug/l

RT: 3.56 min Scan# 207

Delta R.T. 0.00 min

Lab File: VD060396.D

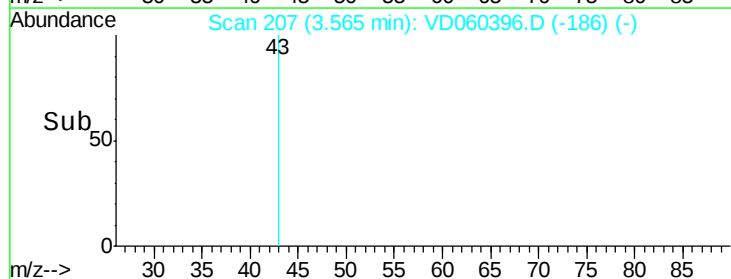
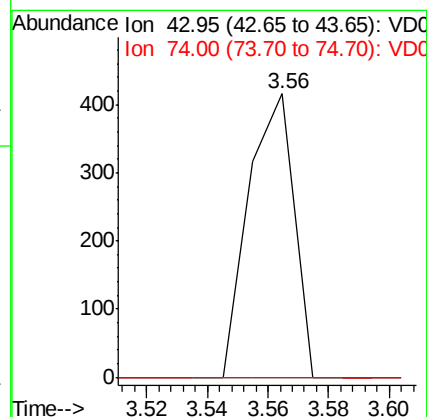
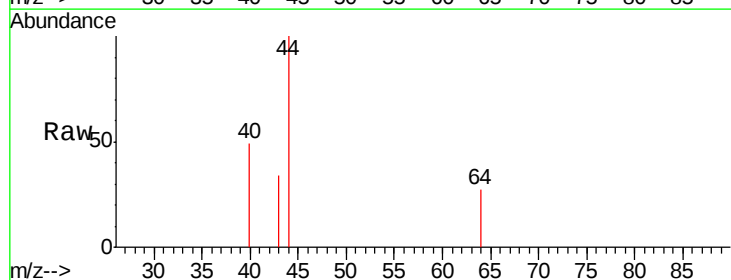
Acq: 16 Nov 2018 14:18

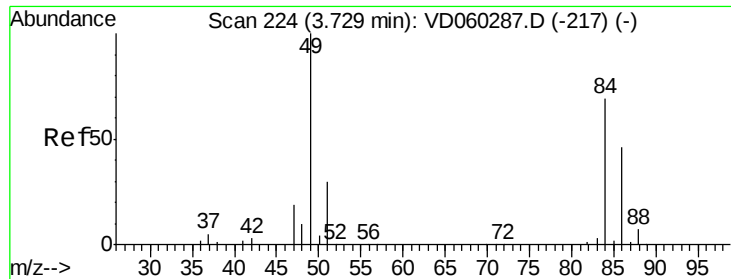
Tgt Ion: 43 Resp: 433

Ion Ratio Lower Upper

43 100

74 0.0 12.4 18.6#

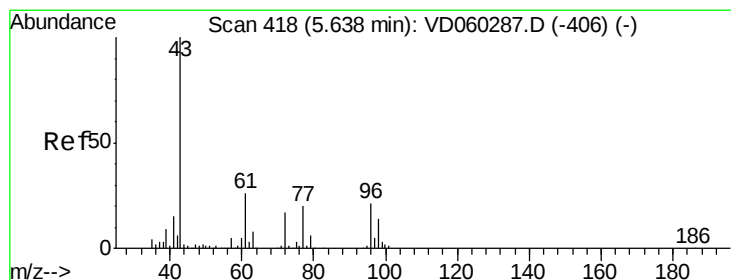
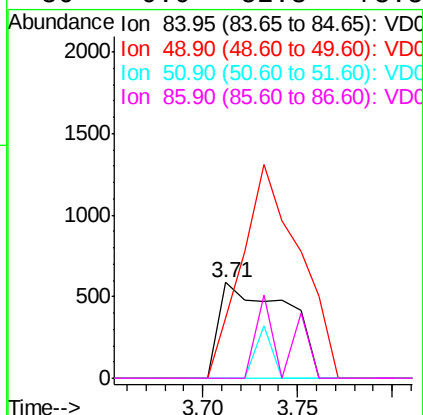
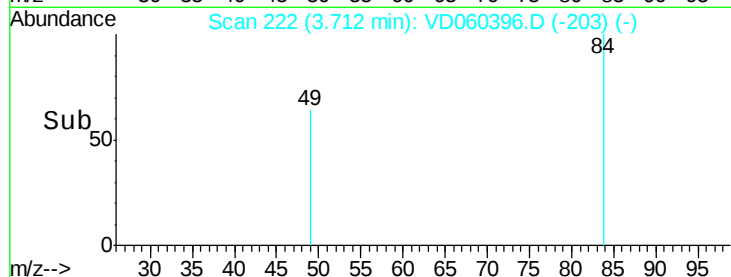
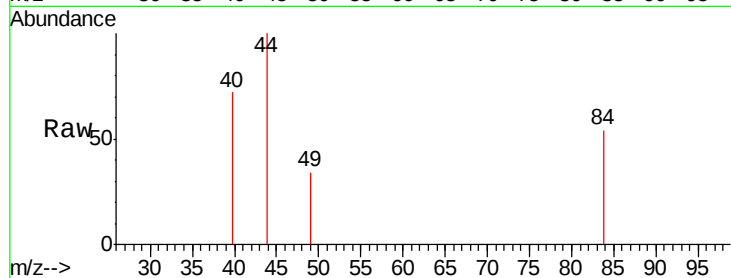




#20
Methylene Chloride
Concen: 8.57 ug/l
RT: 3.71 min Scan# 222
Delta R.T. -0.02 min
Lab File: VD060396.D
Acq: 16 Nov 2018 14:18

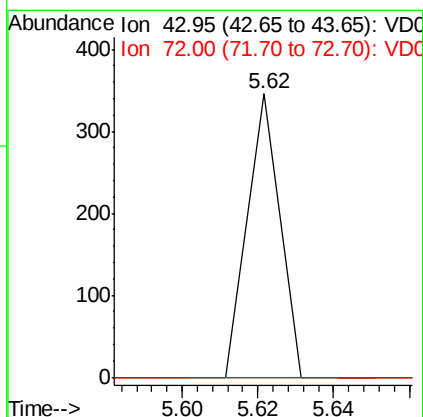
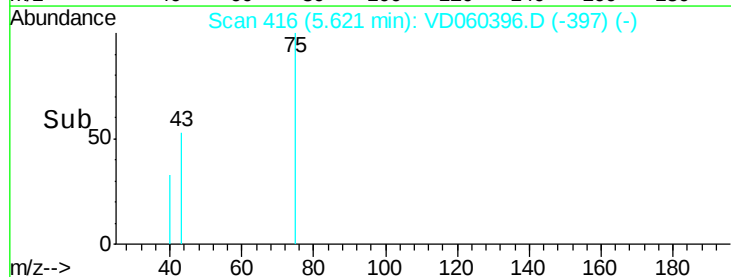
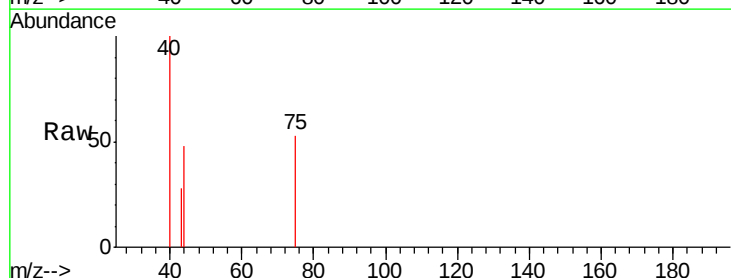
Instrument :
MSVOA_D
ClientSampleId :
FDSB-06(10-12)

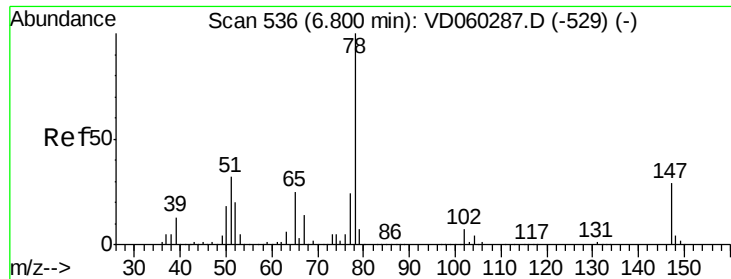
Tgt Ion: 84 Resp: 1438
Ion Ratio Lower Upper
84 100
49 63.5 115.6 173.4#
51 0.0 35.6 53.4#
86 0.0 52.3 78.5#



#25
2-Butanone
Concen: 5.19 ug/l
RT: 5.62 min Scan# 416
Delta R.T. -0.02 min
Lab File: VD060396.D
Acq: 16 Nov 2018 14:18

Tgt Ion: 43 Resp: 204
Ion Ratio Lower Upper
43 100
72 0.0 13.8 20.8#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.79 min Scan# 535

Delta R.T. -0.01 min

Lab File: VD060396.D

Acq: 16 Nov 2018 14:18

Instrument :

MSVOA_D

ClientSampleId :

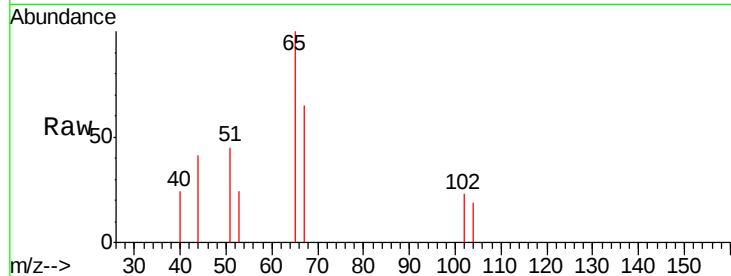
FDSB-06(10-12)

Tgt Ion: 65 Resp: 7625

Ion Ratio Lower Upper

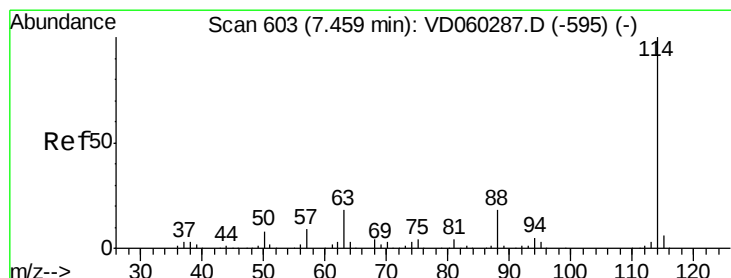
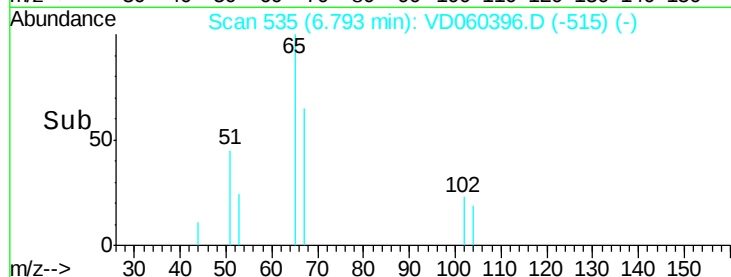
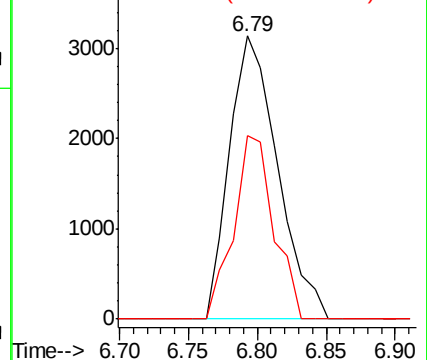
65 100

67 65.0 0.0 109.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.46 min Scan# 603

Delta R.T. 0.00 min

Lab File: VD060396.D

Acq: 16 Nov 2018 14:18

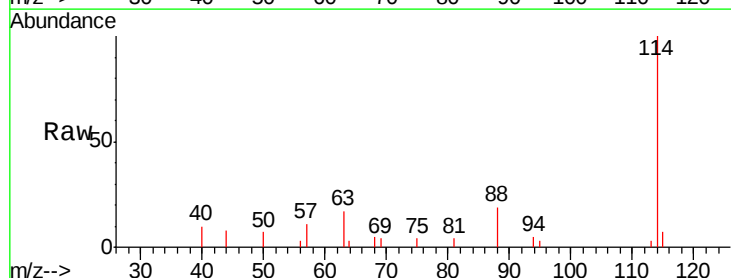
Tgt Ion: 114 Resp: 26211

Ion Ratio Lower Upper

114 100

63 17.1 0.0 34.0

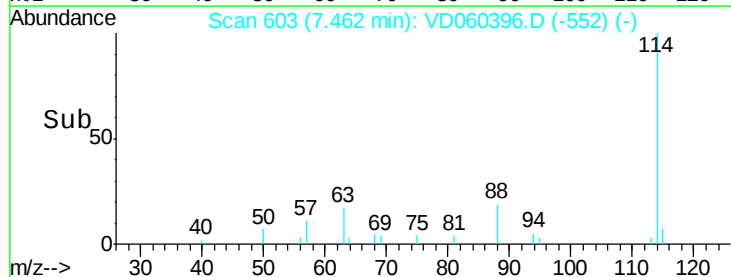
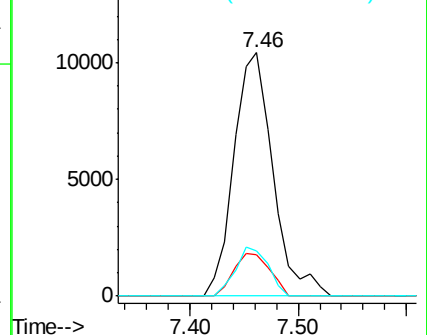
88 18.6 0.0 35.4

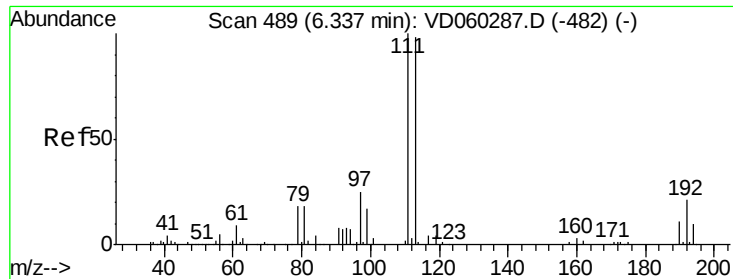


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.34 min Scan# 489

Delta R.T. 0.00 min

Lab File: VD060396.D

Acq: 16 Nov 2018 14:18

Instrument :

MSVOA_D

ClientSampleId :

FDSB-06(10-12)

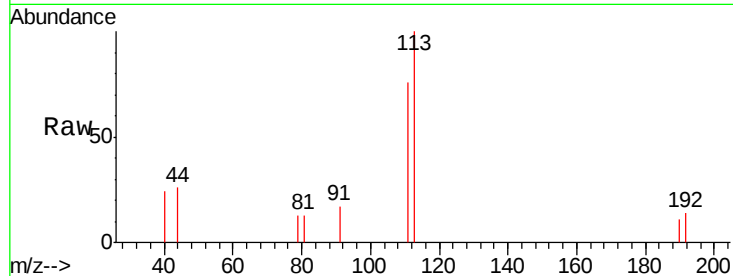
Tgt Ion:113 Resp: 6925

Ion Ratio Lower Upper

113 100

111 76.4 81.6 122.4#

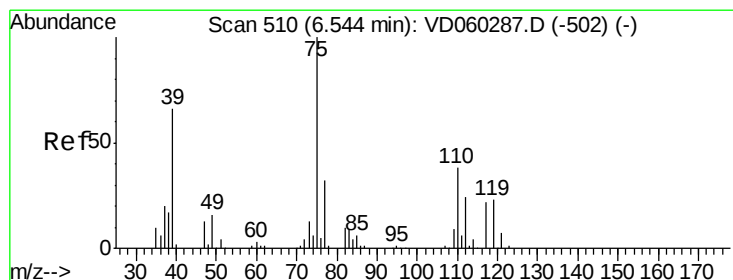
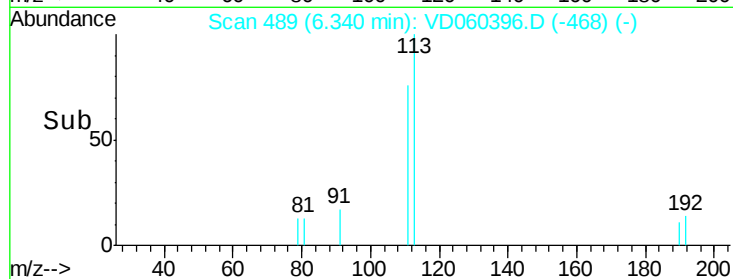
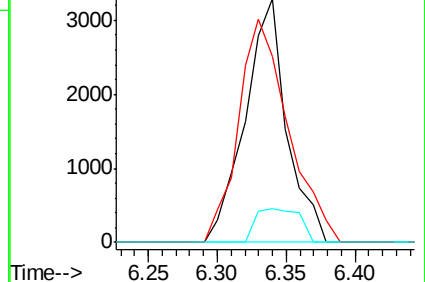
192 13.6 16.5 24.7#



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



#36

1,1-Dichloropropene

Concen: 1.73 ug/l

RT: 6.43 min Scan# 498

Delta R.T. -0.12 min

Lab File: VD060396.D

Acq: 16 Nov 2018 14:18

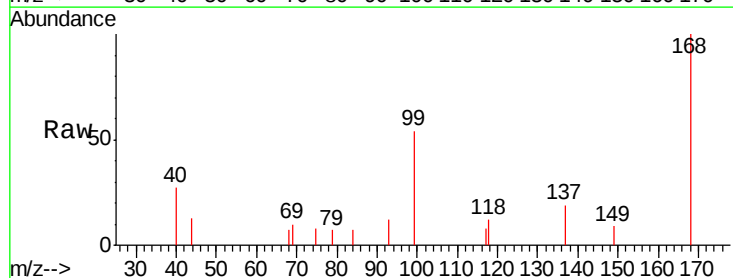
Tgt Ion: 75 Resp: 449

Ion Ratio Lower Upper

75 100

110 0.0 18.0 54.0#

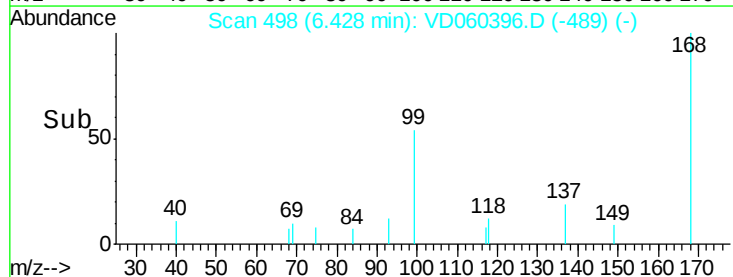
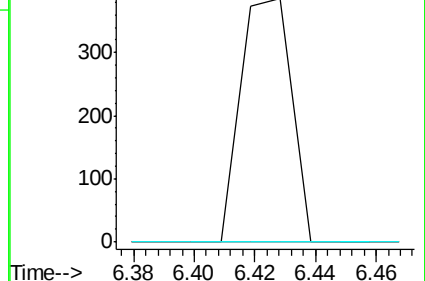
77 0.0 25.6 38.4#

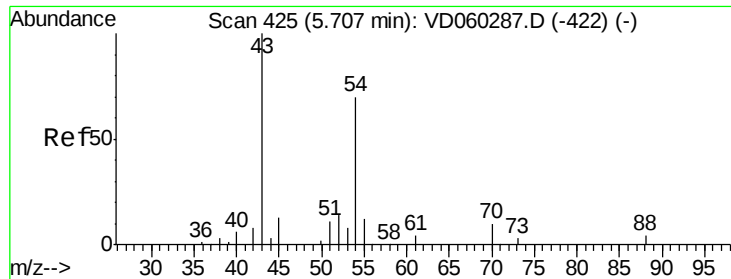


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

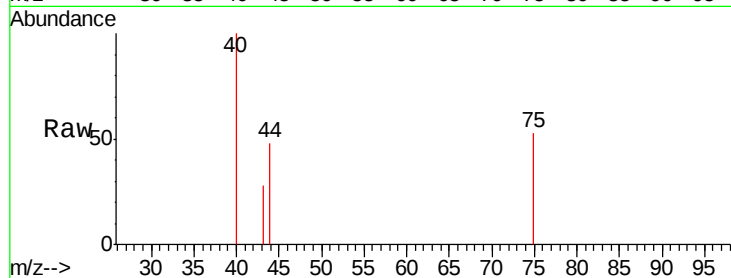




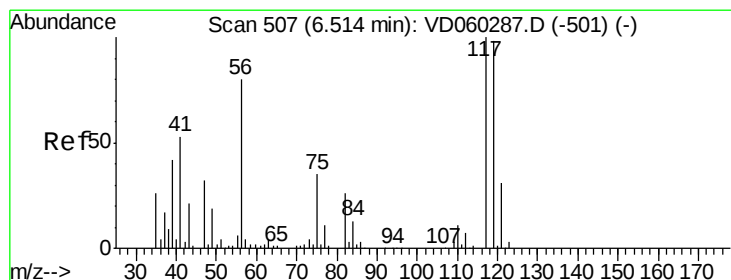
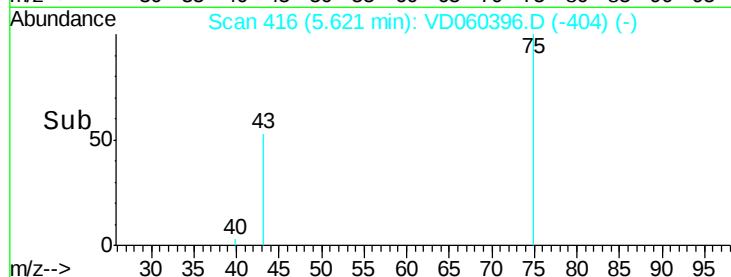
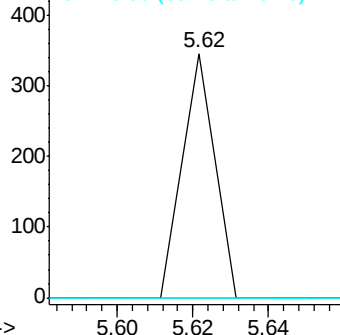
#37
Ethyl Acetate
Concen: 1.71 ug/l
RT: 5.62 min Scan# 416
Delta R.T. -0.09 min
Lab File: VD060396.D
Acq: 16 Nov 2018 14:18

Instrument :
MSVOA_D
ClientSampleId :
FDSB-06(10-12)

Tgt Ion: 43 Resp: 204
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 6.2 9.4#

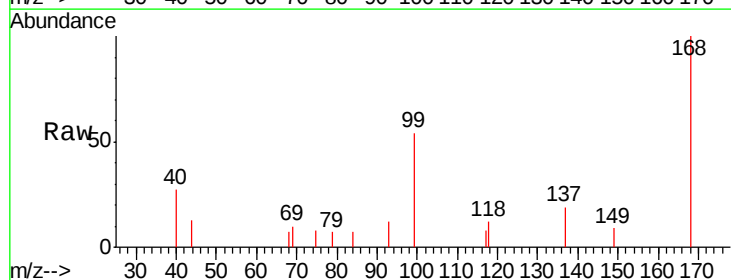


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

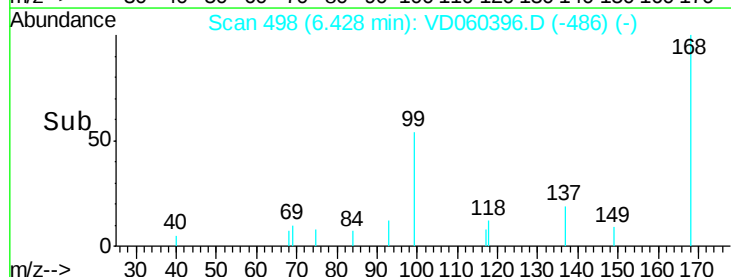
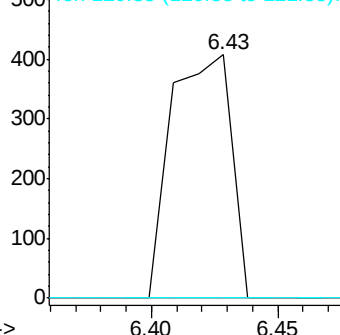


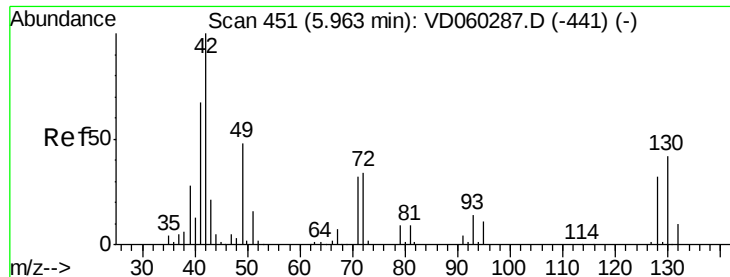
#38
Carbon Tetrachloride
Concen: 2.81 ug/l
RT: 6.43 min Scan# 498
Delta R.T. -0.09 min
Lab File: VD060396.D
Acq: 16 Nov 2018 14:18

Tgt Ion: 117 Resp: 676
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





#41

Methacrylonitrile

Concen: 1.40 ug/l

RT: 5.96 min Scan# 450

Delta R.T. -0.01 min

Lab File: VD060396.D

Acq: 16 Nov 2018 14:18

Instrument :

MSVOA_D

ClientSampleId :

FDSB-06(10-12)

Tgt Ion: 41 Resp: 191

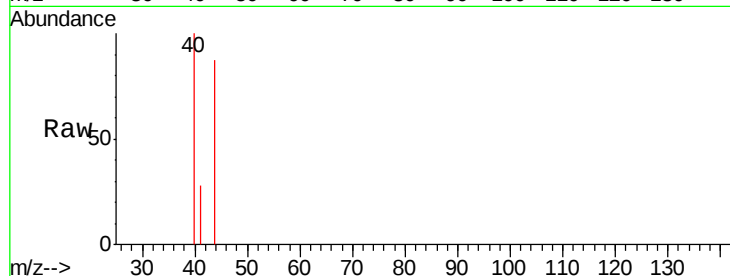
Ion Ratio Lower Upper

41 100

39 0.0 36.2 54.2#

67 0.0 11.9 17.9#

52 0.0 5.2 7.8#



Abundance Ion 40.95 (40.65 to 41.65): VDC

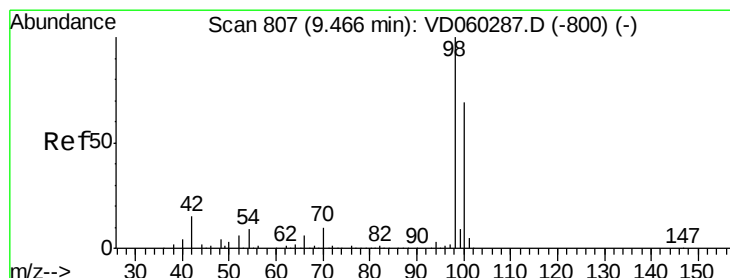
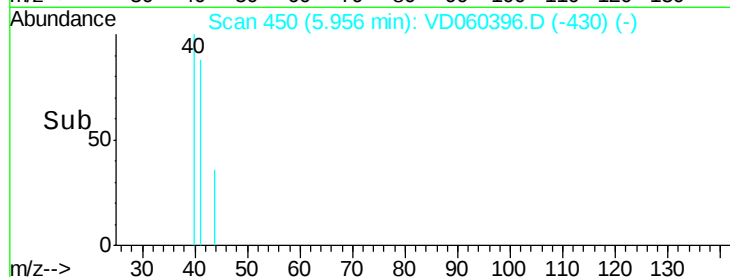
Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

5.96

Time-->



#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.47 min Scan# 807

Delta R.T. 0.00 min

Lab File: VD060396.D

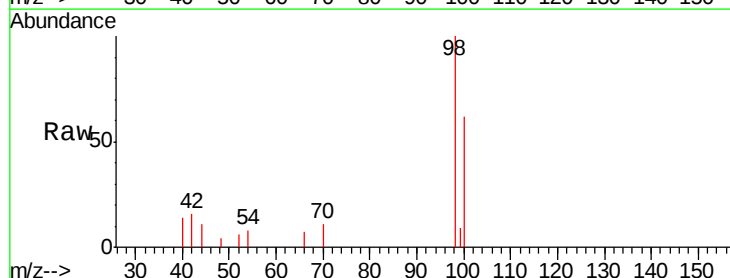
Acq: 16 Nov 2018 14:18

Tgt Ion: 98 Resp: 20435

Ion Ratio Lower Upper

98 100

100 62.2 55.2 82.8

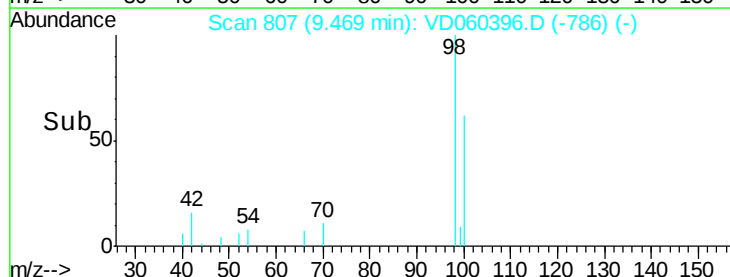


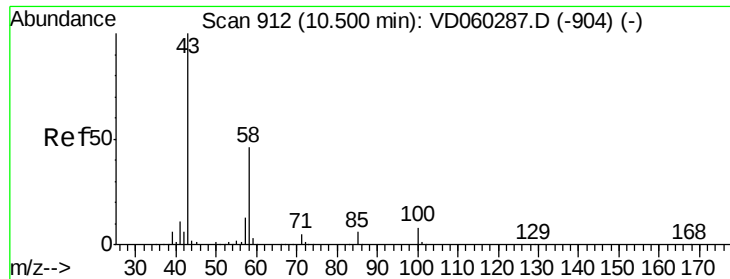
Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

9.47

Time-->

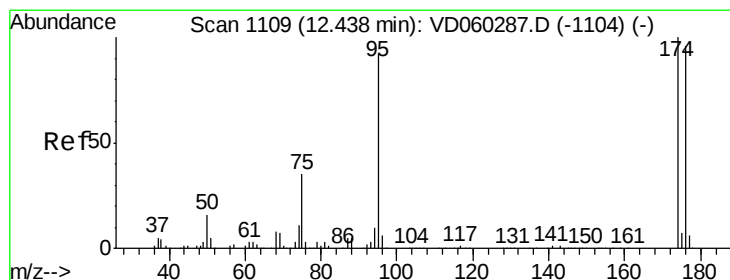
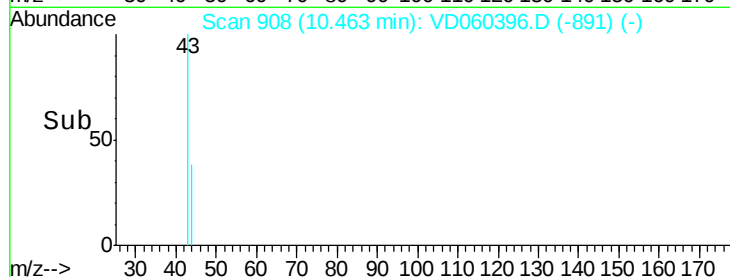
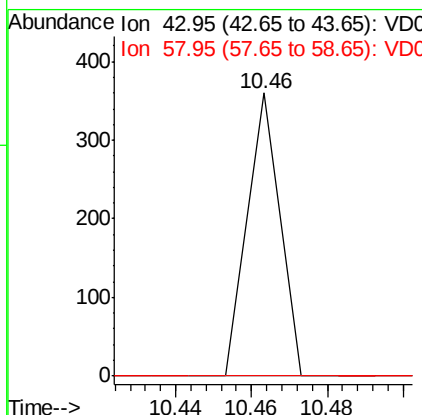
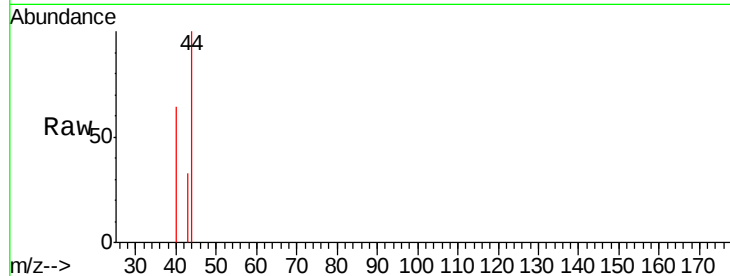




#59
2-Hexanone
Concen: 3.05 ug/l
RT: 10.46 min Scan# 908
Delta R.T. -0.04 min
Lab File: VD060396.D
Acq: 16 Nov 2018 14:18

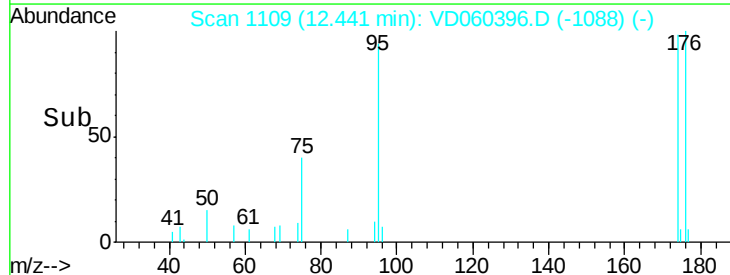
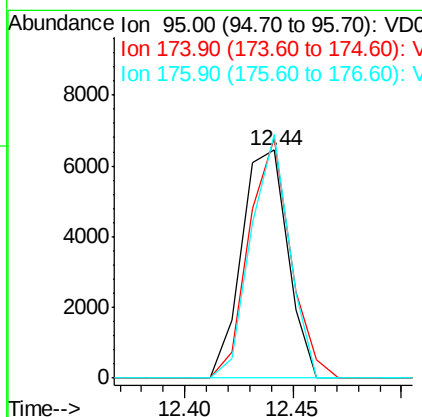
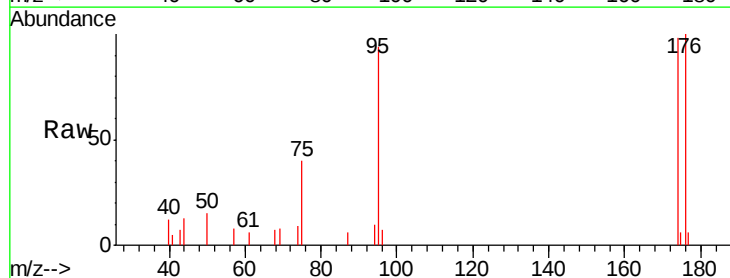
Instrument :
MSVOA_D
ClientSampleId :
FDSB-06(10-12)

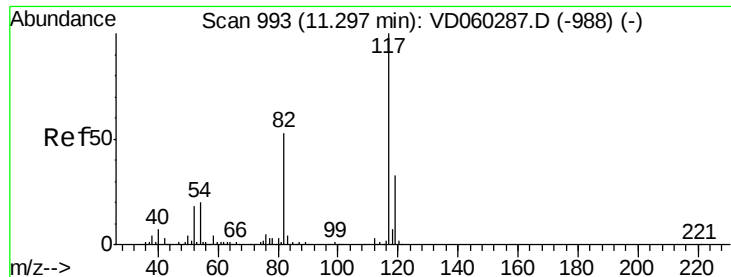
Tgt Ion: 43 Resp: 212
Ion Ratio Lower Upper
43 100
58 0.0 22.9 68.5#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.44 min Scan# 1109
Delta R.T. 0.00 min
Lab File: VD060396.D
Acq: 16 Nov 2018 14:18

Tgt Ion: 95 Resp: 9501
Ion Ratio Lower Upper
95 100
174 105.2 0.0 160.8
176 106.9 0.0 154.6





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.30 min Scan# 993

Delta R.T. 0.00 min

Lab File: VD060396.D

Acq: 16 Nov 2018 14:18

Instrument :

MSVOA_D

ClientSampleId :

FDSB-06(10-12)

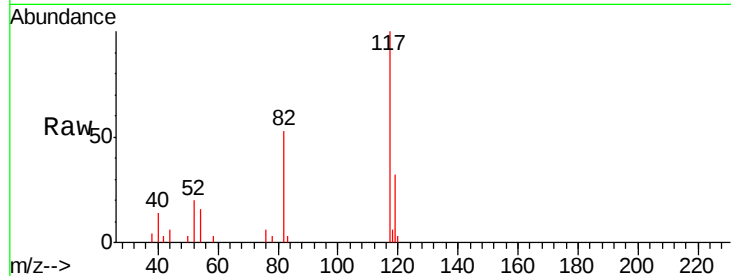
Tgt Ion:117 Resp: 24376

Ion Ratio Lower Upper

117 100

82 52.8 43.7 65.5

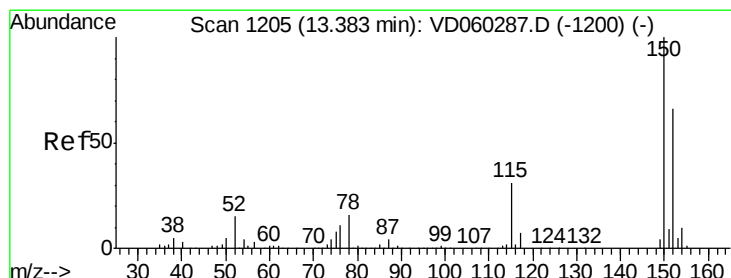
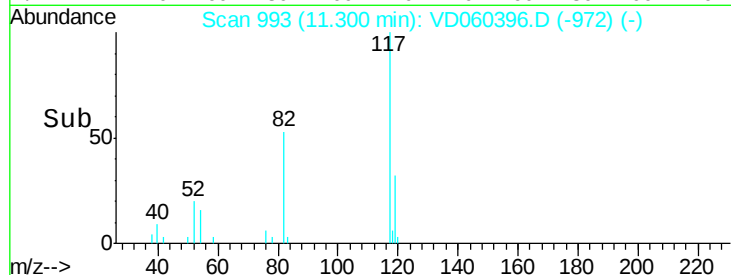
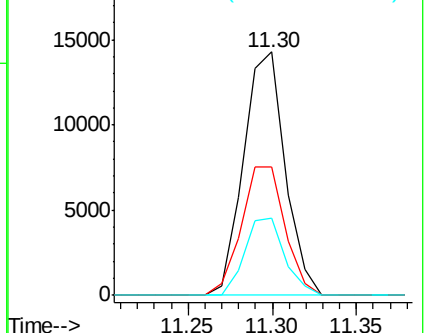
119 31.8 26.1 39.1



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: 50.00 ug/l

RT: 13.39 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VD060396.D

Acq: 16 Nov 2018 14:18

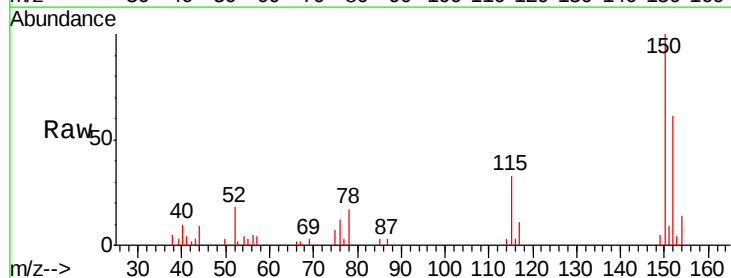
Tgt Ion:152 Resp: 13910

Ion Ratio Lower Upper

152 100

115 53.4 24.1 72.3

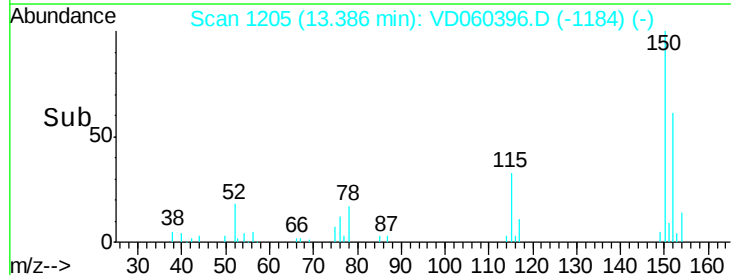
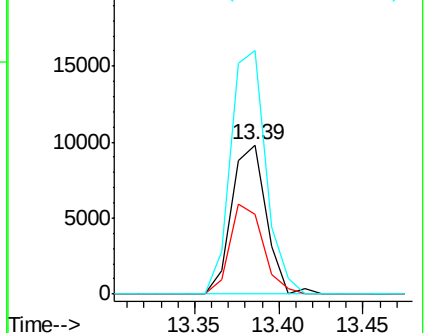
150 163.5 0.0 310.6

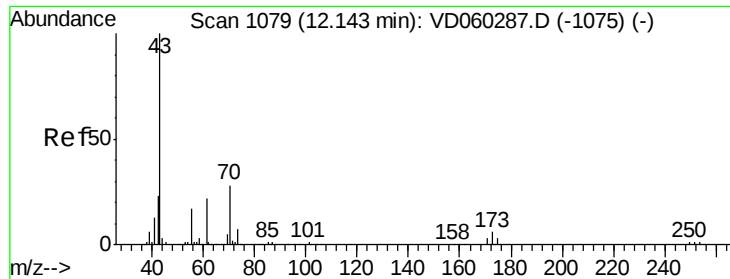


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 6.26 ug/l

RT: 12.19 min Scan# 1083

Delta R.T. 0.04 min

Lab File: VD060396.D

Acq: 16 Nov 2018 14:18

Instrument :

MSVOA_D

ClientSampleId :

FDSB-06(10-12)

Tgt Ion: 43 Resp: 1627

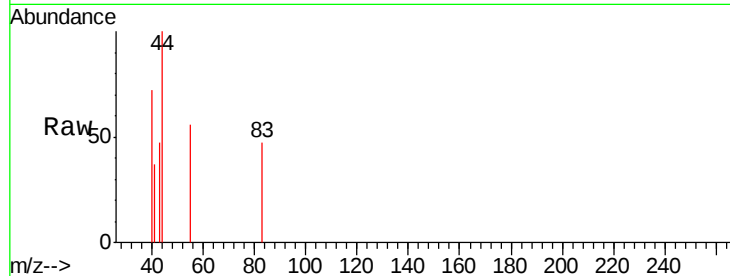
Ion Ratio Lower Upper

43 100

70 0.0 23.0 34.4#

55 119.8 14.2 21.4#

61 0.0 17.8 26.8#

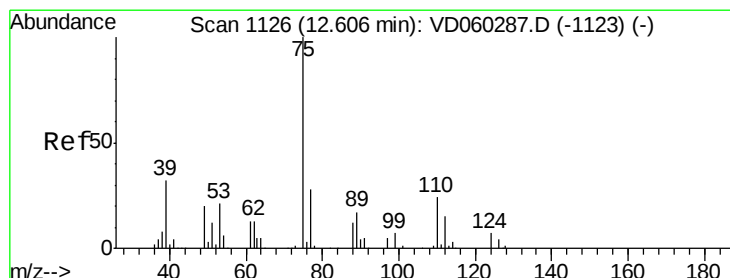
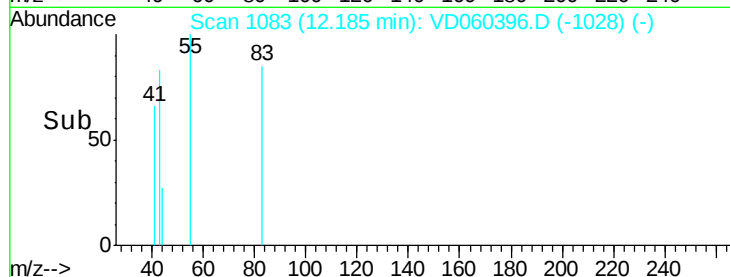
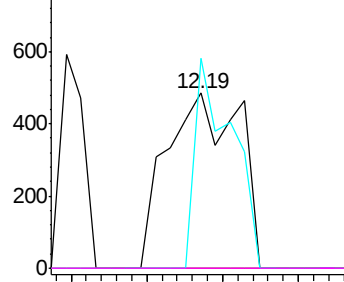


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#76

1,2,3-Trichloropropane

Concen: 20.71 ug/l

RT: 12.44 min Scan# 1109

Delta R.T. -0.16 min

Lab File: VD060396.D

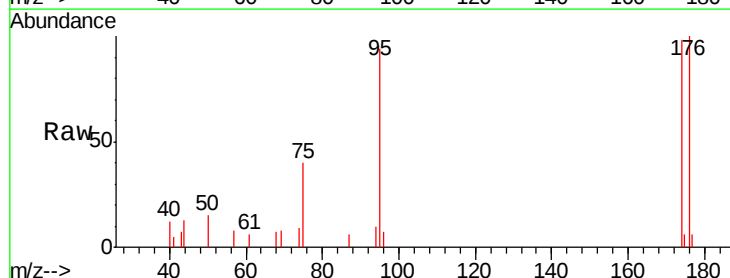
Acq: 16 Nov 2018 14:18

Tgt Ion: 75 Resp: 3446

Ion Ratio Lower Upper

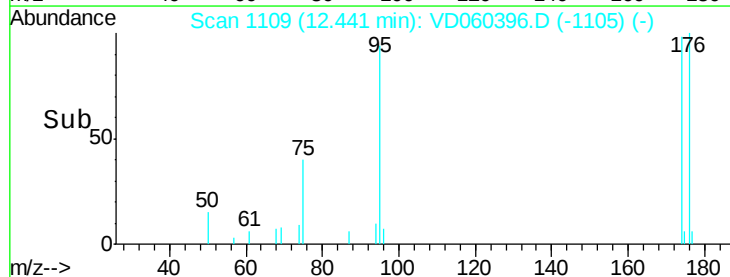
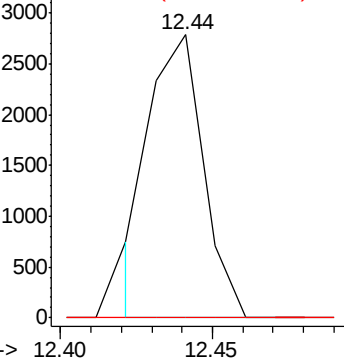
75 100

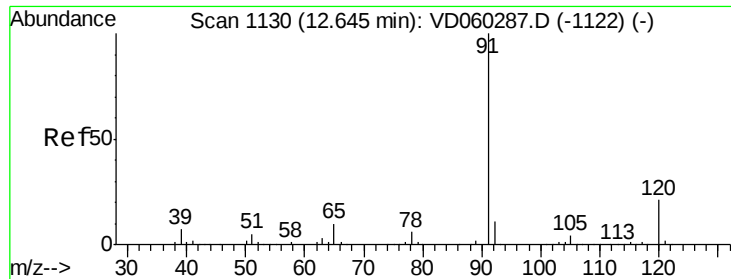
77 0.0 16.4 49.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#78

n-propylbenzene

Concen: 1.18 ug/l

RT: 12.65 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VD060396.D

Acq: 16 Nov 2018 14:18

Instrument :

MSVOA_D

ClientSampleId :

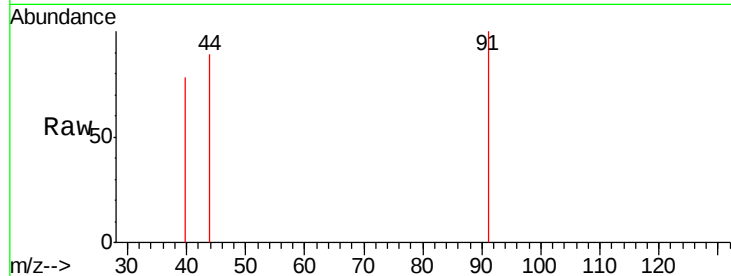
FDSB-06(10-12)

Tgt Ion: 91 Resp: 1489

Ion Ratio Lower Upper

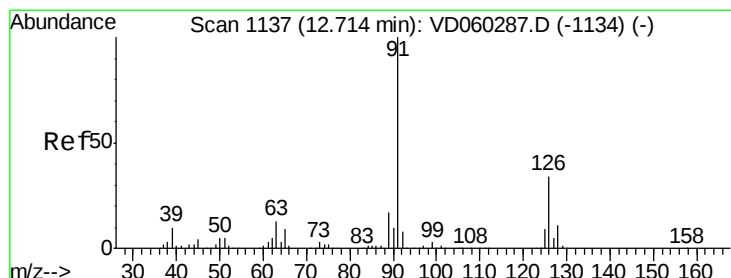
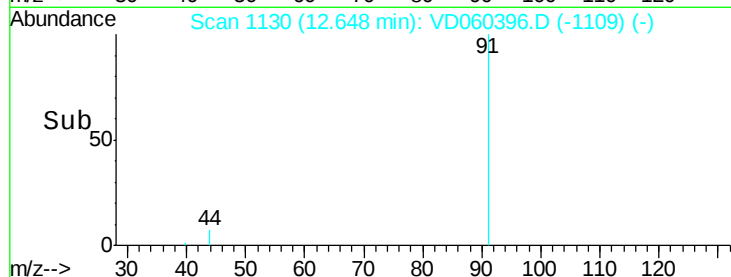
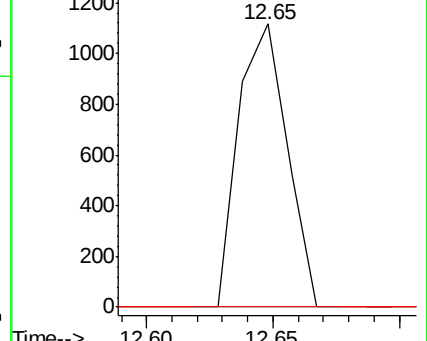
91 100

120 0.0 10.4 31.4#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V



#79

2-Chlorotoluene

Concen: 2.15 ug/l

RT: 12.65 min Scan# 1130

Delta R.T. -0.07 min

Lab File: VD060396.D

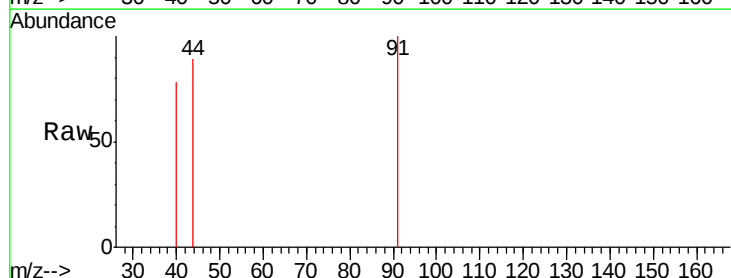
Acq: 16 Nov 2018 14:18

Tgt Ion: 91 Resp: 1489

Ion Ratio Lower Upper

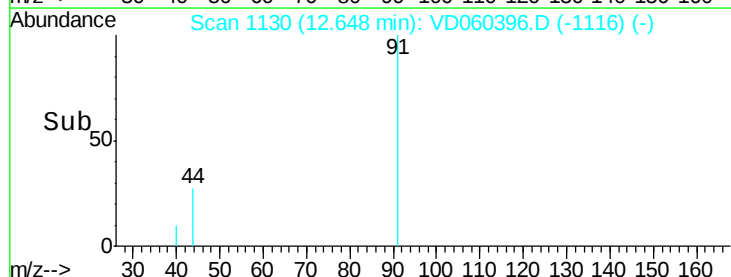
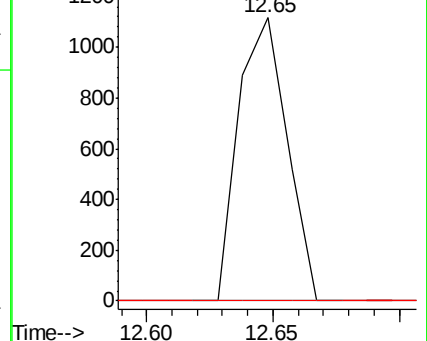
91 100

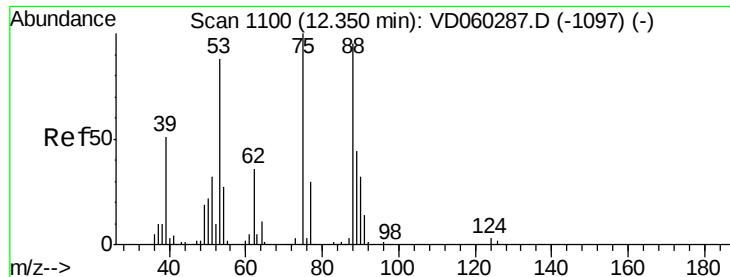
126 0.0 17.4 52.2#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

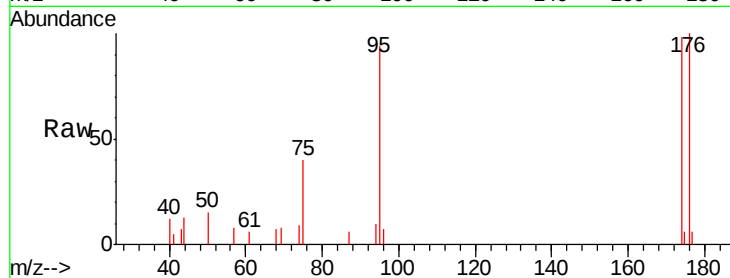




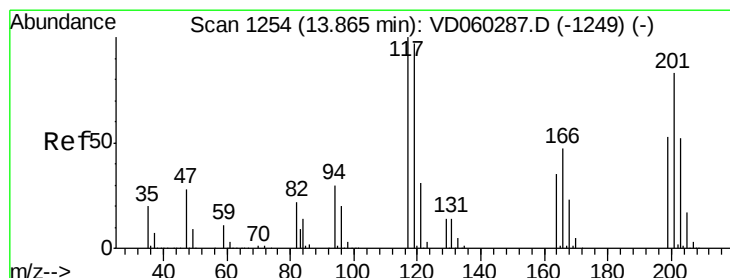
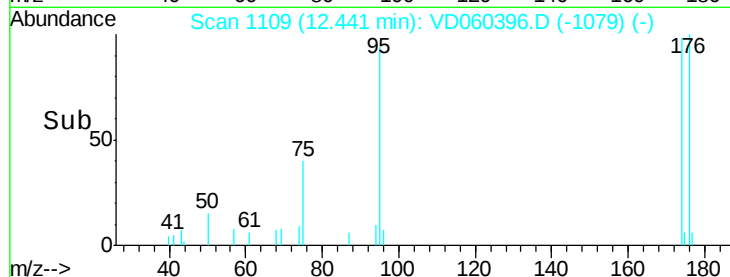
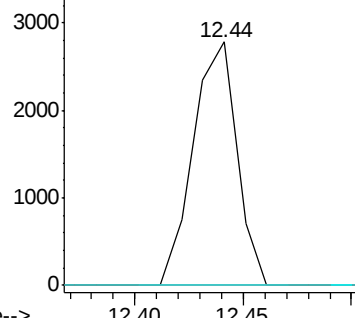
#81
trans-1,4-Dichloro-2-butene
Concen: 82.01 ug/l
RT: 12.44 min Scan# 1109
Delta R.T. 0.09 min
Lab File: VD060396.D
Acq: 16 Nov 2018 14:18

Instrument :
MSVOA_D
ClientSampleId :
FDSB-06(10-12)

Tgt Ion: 75 Resp: 3885
Ion Ratio Lower Upper
75 100
53 0.0 68.6 103.0#
89 0.0 34.1 51.1#

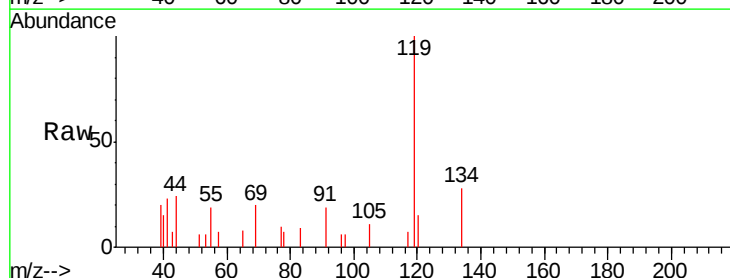


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

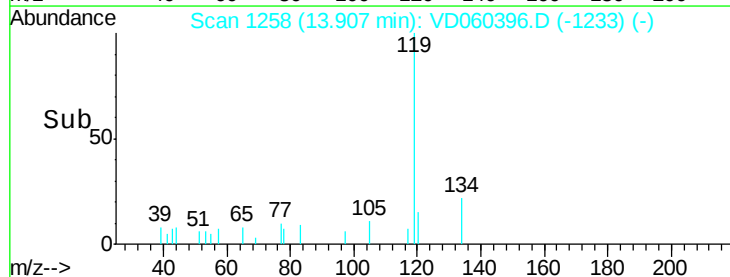
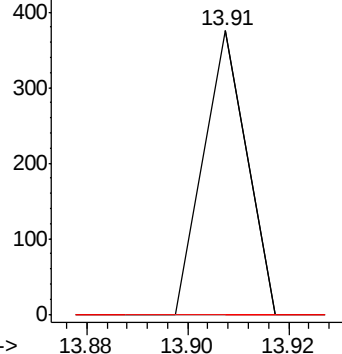


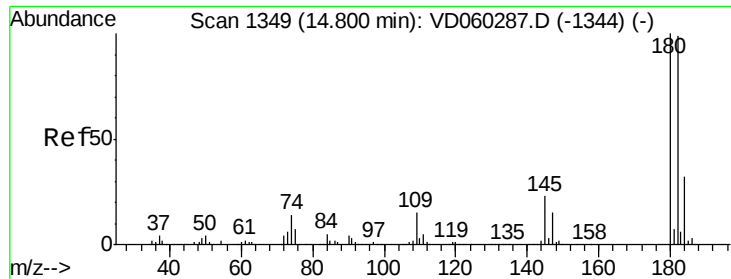
#90
Hexachloroethane
Concen: 1.08 ug/l
RT: 13.91 min Scan# 1258
Delta R.T. 0.04 min
Lab File: VD060396.D
Acq: 16 Nov 2018 14:18

Tgt Ion: 117 Resp: 222
Ion Ratio Lower Upper
117 100
201 0.0 40.1 120.3#



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V





#93

1,2,4-Trichlorobenzene

Concen: 1.40 ug/l

RT: 14.79 min Scan# 1348

Delta R.T. -0.01 min

Lab File: VD060396.D

Acq: 16 Nov 2018 14:18

Instrument :

MSVOA_D

ClientSampleId :

FDSB-06(10-12)

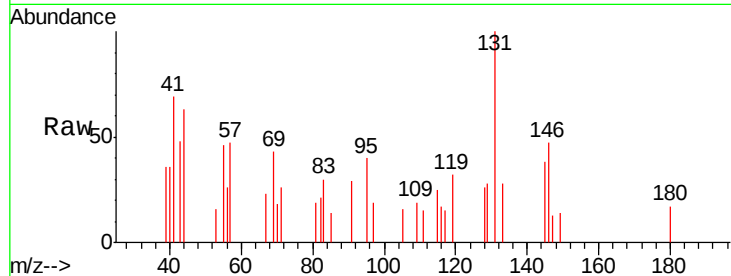
Tgt Ion:180 Resp: 436

Ion Ratio Lower Upper

180 100

182 0.0 48.1 144.4#

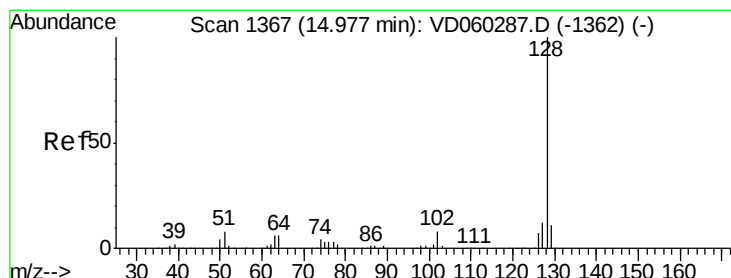
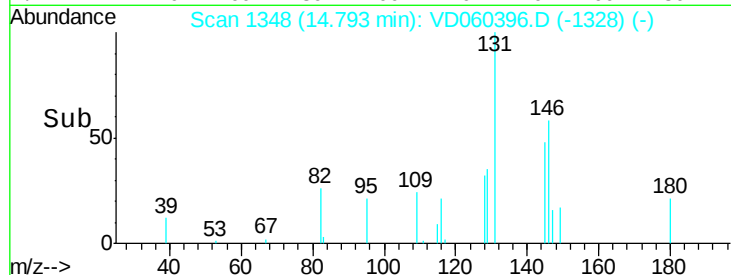
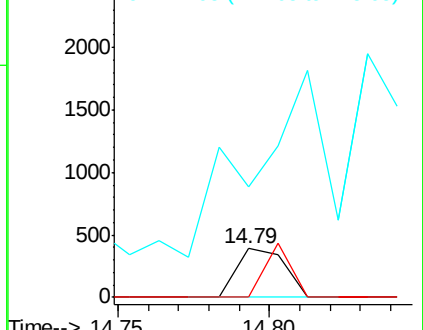
145 226.3 11.5 34.4#



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V



#95

Naphthalene

Concen: 4.27 ug/l

RT: 14.98 min Scan# 1367

Delta R.T. 0.00 min

Lab File: VD060396.D

Acq: 16 Nov 2018 14:18

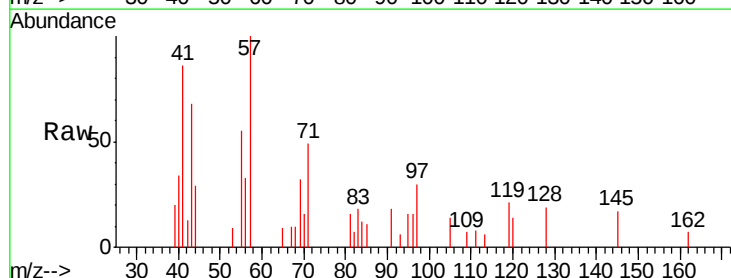
Tgt Ion:128 Resp: 1625

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

