

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD112018\
 Data File : VD060424.D
 Acq On : 20 Nov 2018 12:57
 Operator : JC/SY
 Sample : J5951-02
 Misc : 5.03g/5ml/MSVOA_D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FDSB-02(21-23)

Quant Time: Nov 20 14:45:08 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	6.42	168	7517	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.45	114	13838	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.29	117	12176	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	5949	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.78	65	5165	95.96	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	191.92%	
35) Dibromofluoromethane	6.32	113	4551	44.10	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	88.20%	
50) Toluene-d8	9.46	98	12587	41.68	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	83.36%	
62) 4-Bromofluorobenzene	12.43	95	5603	51.20	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.40%	

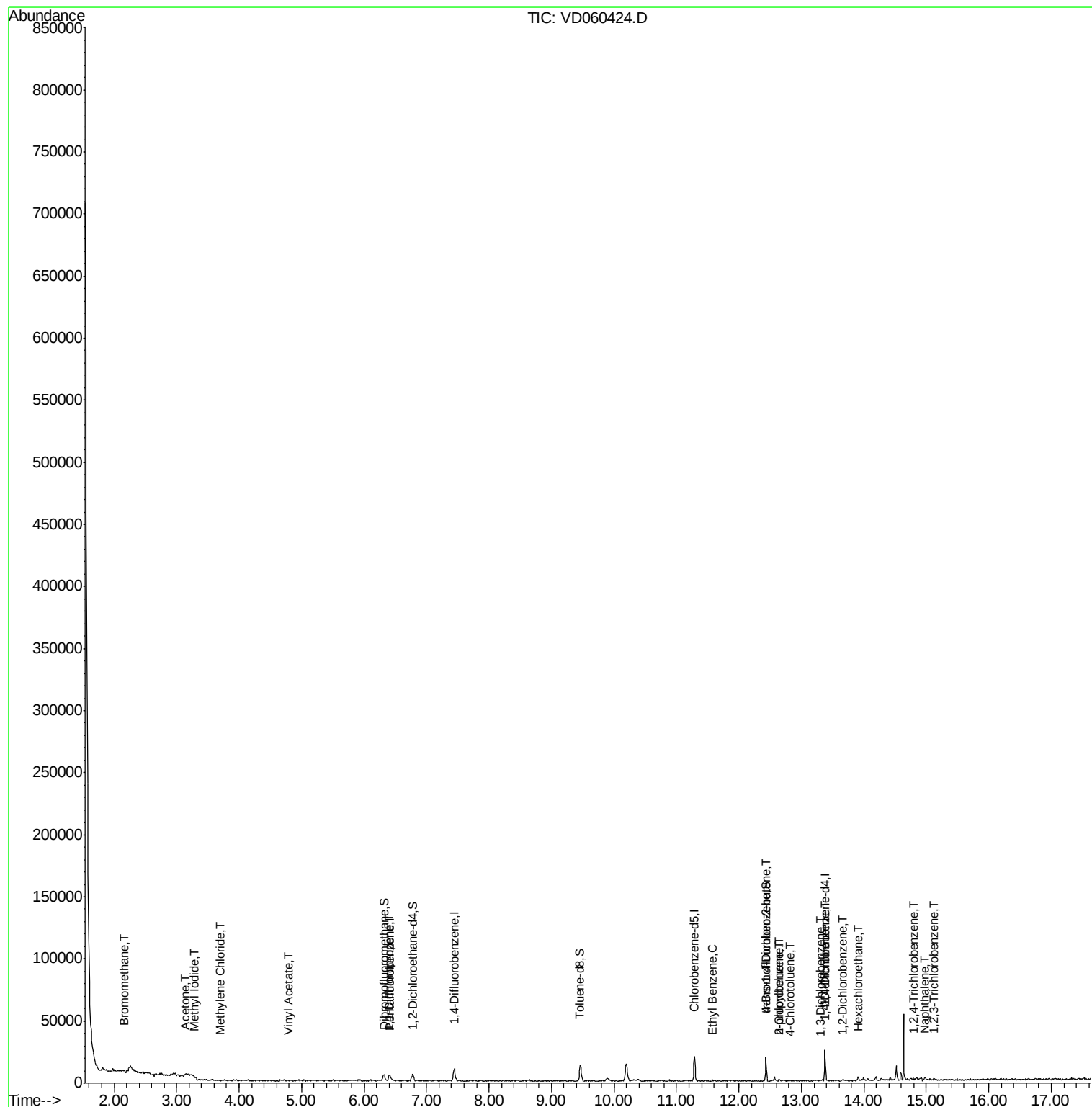
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	619	44.87	ug/l #	2
10) Methyl Iodide	3.28	142	223	3.81	ug/l #	35
16) Acetone	3.15	43	231	24.74	ug/l #	55
20) Methylene Chloride	3.70	84	180	2.17	ug/l #	1
23) Vinyl Acetate	4.78	43	193	1.48	ug/l #	79
36) 1,1-Dichloropropene	6.40	75	178	1.30	ug/l #	41
67) Ethyl Benzene	11.57	91	510	1.13	ug/l #	44
78) n-propylbenzene	12.65	91	628	1.16	ug/l #	55
79) 2-Chlorotoluene	12.65	91	628	2.12	ug/l #	40
81) trans-1,4-Dichloro-2-buten	12.43	75	1991	98.27	ug/l #	15
82) 4-Chlorotoluene	12.81	91	586	1.76	ug/l #	45
87) 1,3-Dichlorobenzene	13.31	146	353	1.72	ug/l #	25
88) 1,4-Dichlorobenzene	13.39	146	335	1.67	ug/l #	67
90) Hexachloroethane	13.91	117	182	2.08	ug/l #	9
91) 1,2-Dichlorobenzene	13.66	146	397	2.36	ug/l #	26
93) 1,2,4-Trichlorobenzene	14.79	180	638	4.78	ug/l #	82
95) Naphthalene	14.97	128	1549	9.51	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.13	180	639	5.98	ug/l #	74

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

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FDSB-02(21-23)

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D110618S.M
Quant Title : SW846 8260
QLast Update : Mon Nov 19 16:31:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.42 min Scan# 497

Delta R.T. -0.01 min

Lab File: VD060424.D

Acq: 20 Nov 2018 12:57

Instrument :

MSVOA_D

ClientSampleId :

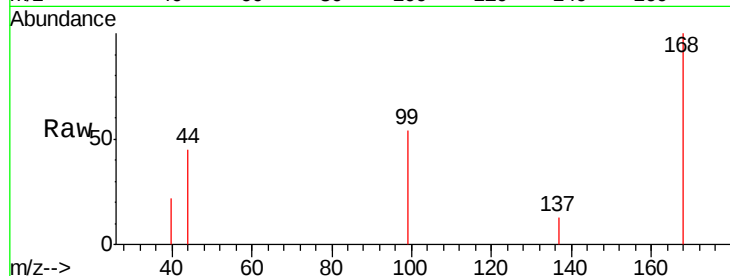
FDSB-02(21-23)

Tgt Ion:168 Resp: 7517

Ion Ratio Lower Upper

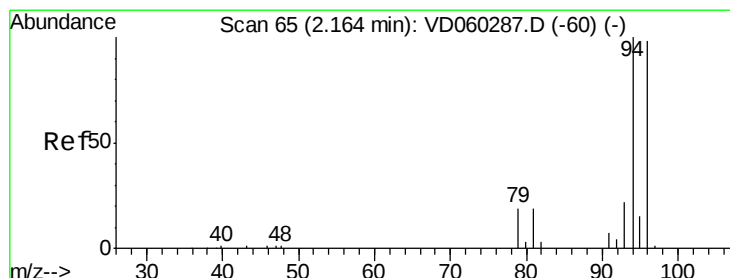
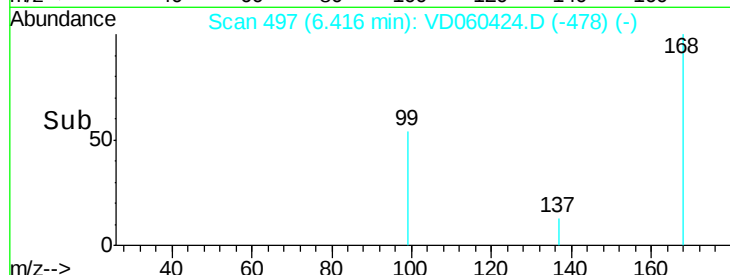
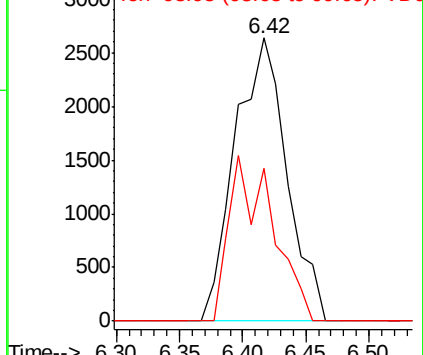
168 100

99 54.1 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 44.87 ug/l

RT: 2.17 min Scan# 65

Delta R.T. 0.00 min

Lab File: VD060424.D

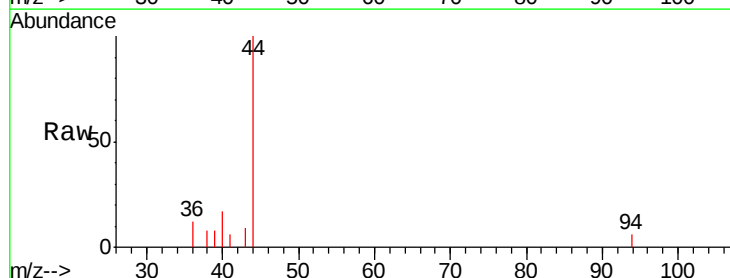
Acq: 20 Nov 2018 12:57

Tgt Ion: 94 Resp: 619

Ion Ratio Lower Upper

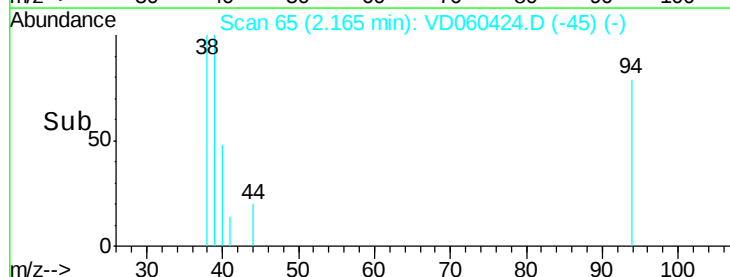
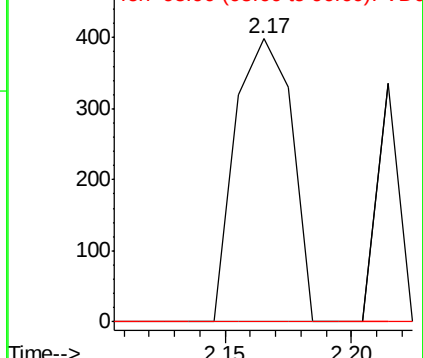
94 100

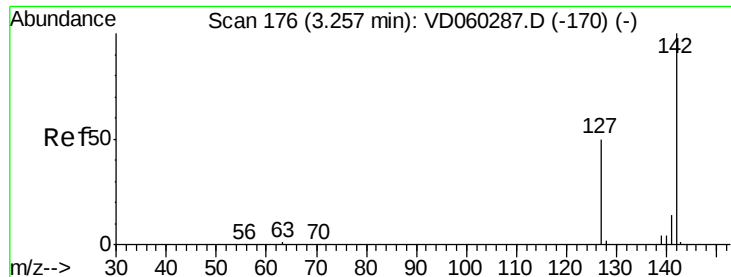
96 0.0 76.6 114.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

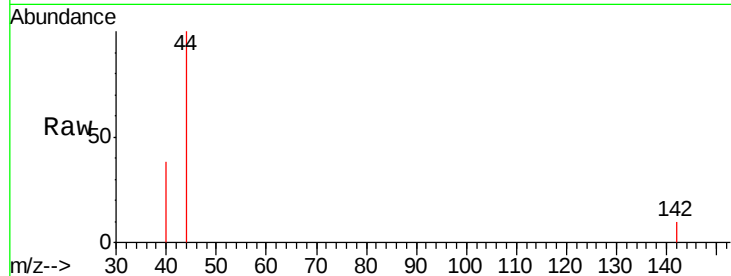




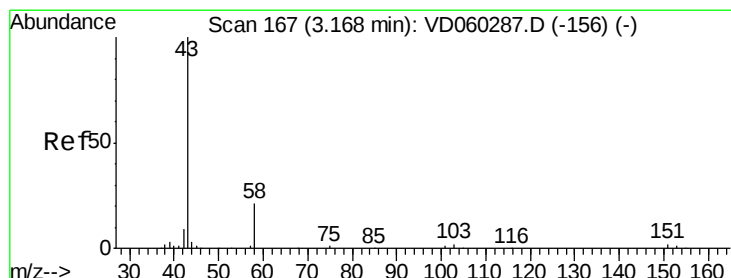
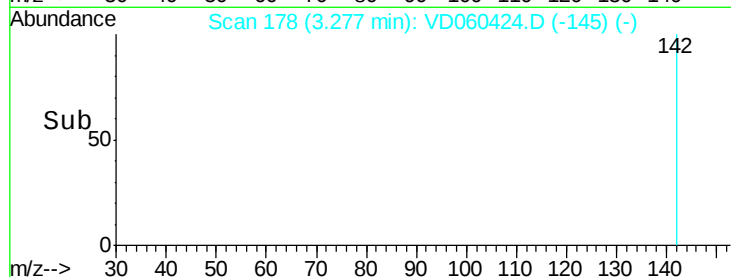
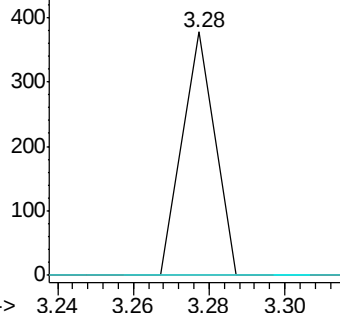
#10
Methyl Iodide
Concen: 3.81 ug/l
RT: 3.28 min Scan# 178
Delta R.T. 0.02 min
Lab File: VD060424.D
Acq: 20 Nov 2018 12:57

Instrument :
MSVOA_D
ClientSampleId :
FDSB-02(21-23)

Tgt Ion:142 Resp: 223
Ion Ratio Lower Upper
142 100
127 0.0 41.0 61.6#
141 0.0 11.9 17.9#

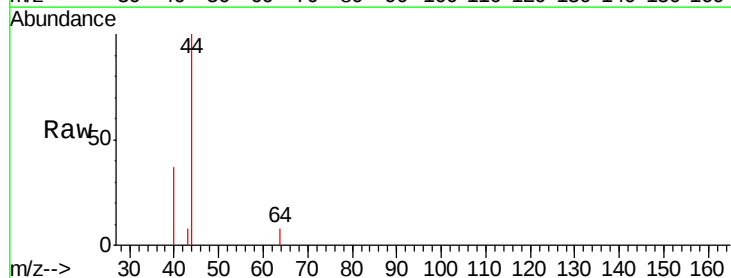


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

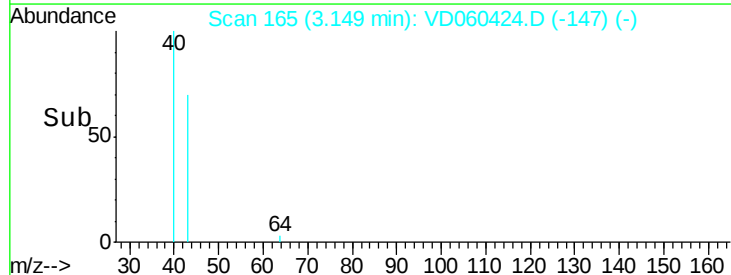
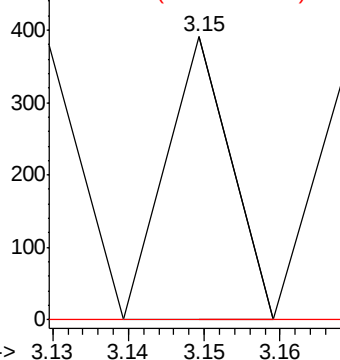


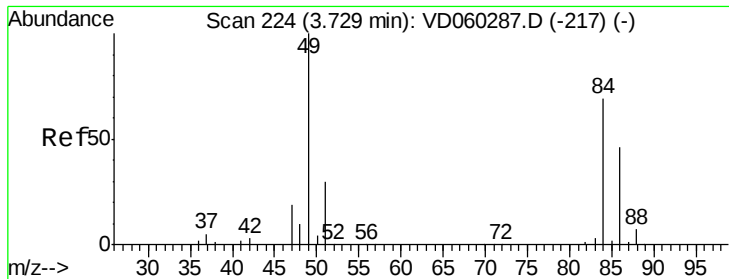
#16
Acetone
Concen: 24.74 ug/l
RT: 3.15 min Scan# 165
Delta R.T. -0.02 min
Lab File: VD060424.D
Acq: 20 Nov 2018 12:57

Tgt Ion: 43 Resp: 231
Ion Ratio Lower Upper
43 100
58 0.0 16.9 25.3#



Abundance Ion 42.95 (42.65 to 43.65): V
Ion 57.95 (57.65 to 58.65): V





#20

Methylene Chloride

Concen: 2.17 ug/l

RT: 3.70 min Scan# 221

Delta R.T. -0.03 min

Lab File: VD060424.D

Acq: 20 Nov 2018 12:57

Instrument :

MSVOA_D

ClientSampleId :

FDSB-02(21-23)

Tgt Ion: 84 Resp: 180

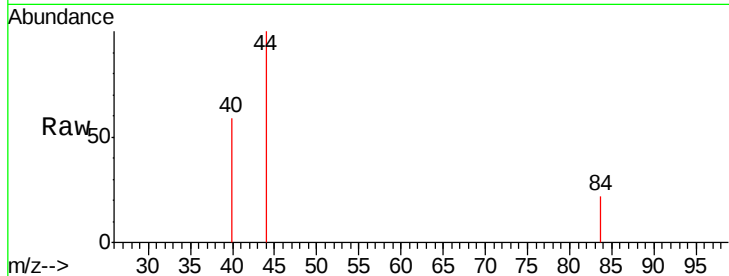
Ion Ratio Lower Upper

84 100

49 0.0 115.6 173.4#

51 0.0 35.6 53.4#

86 0.0 52.3 78.5#

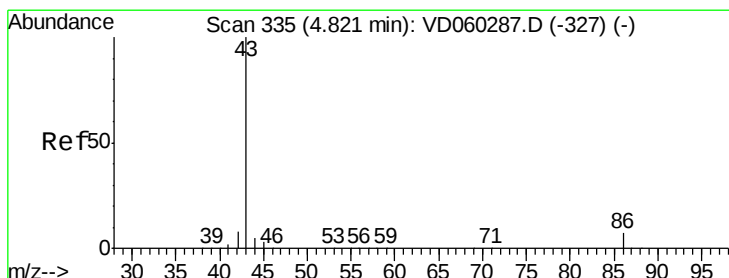
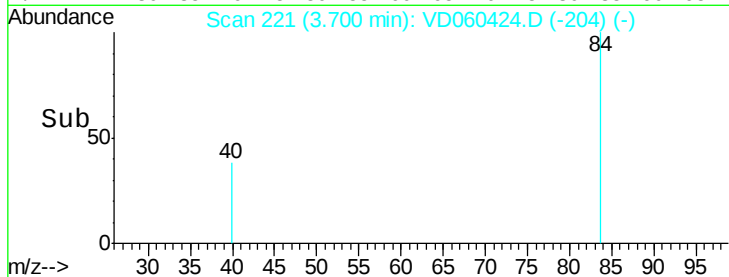
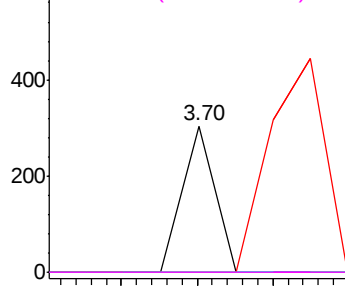


Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#23

Vinyl Acetate

Concen: 1.48 ug/l

RT: 4.78 min Scan# 331

Delta R.T. -0.04 min

Lab File: VD060424.D

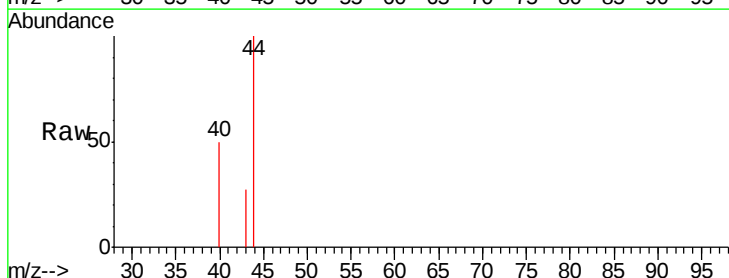
Acq: 20 Nov 2018 12:57

Tgt Ion: 43 Resp: 193

Ion Ratio Lower Upper

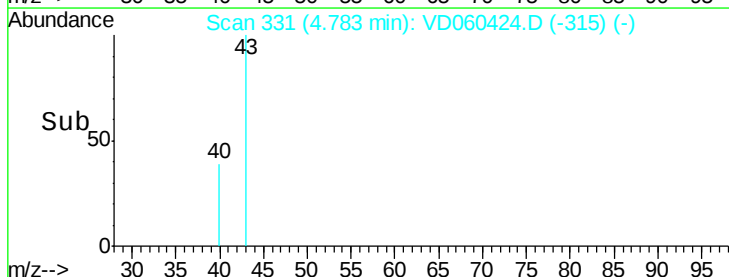
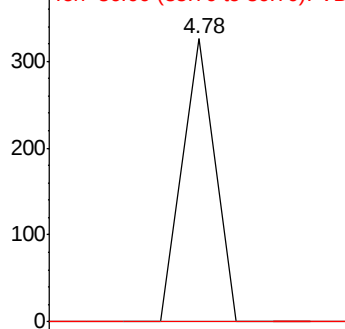
43 100

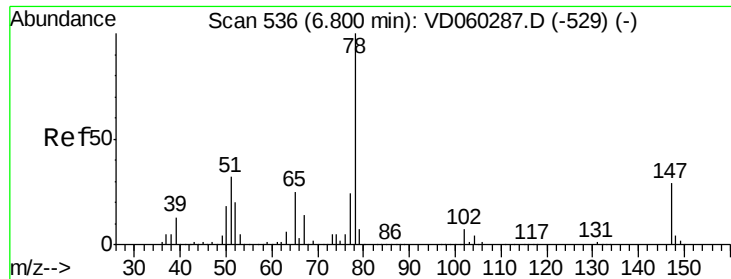
86 0.0 5.7 8.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.78 min Scan# 534

Delta R.T. -0.02 min

Lab File: VD060424.D

Acq: 20 Nov 2018 12:57

Instrument :

MSVOA_D

ClientSampleId :

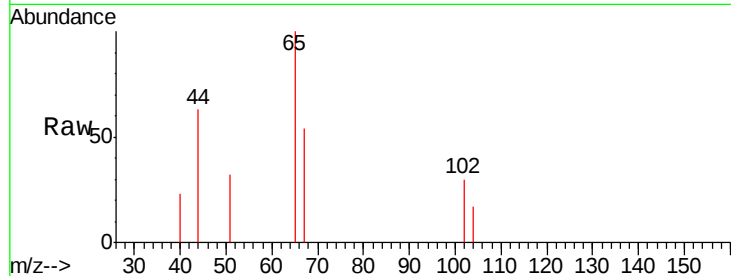
FDSB-02(21-23)

Tgt Ion: 65 Resp: 5165

Ion Ratio Lower Upper

65 100

67 54.3 0.0 109.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.78

2500

2000

1500

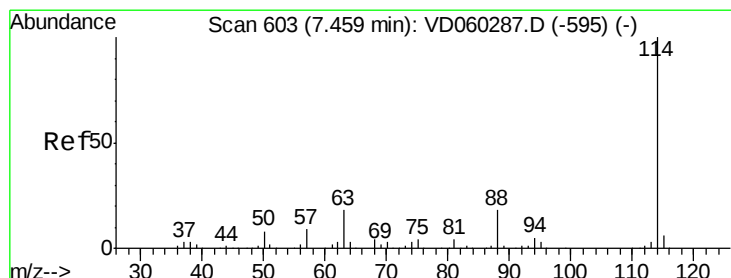
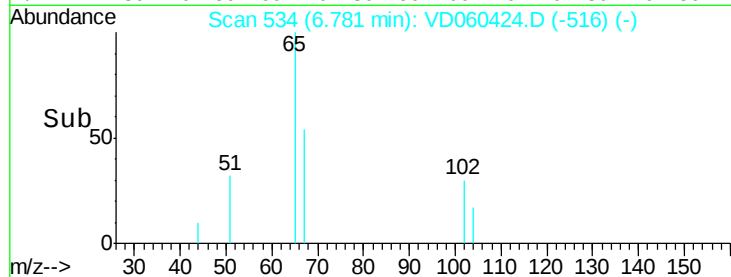
1000

500

0

6.70 6.75 6.80 6.85

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.45 min Scan# 602

Delta R.T. -0.01 min

Lab File: VD060424.D

Acq: 20 Nov 2018 12:57

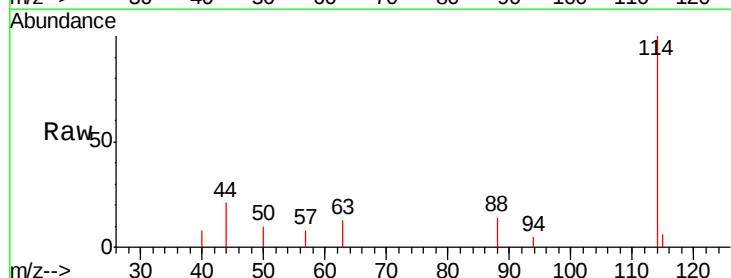
Tgt Ion: 114 Resp: 13838

Ion Ratio Lower Upper

114 100

63 12.5 0.0 34.0

88 14.4 0.0 35.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8000

6000

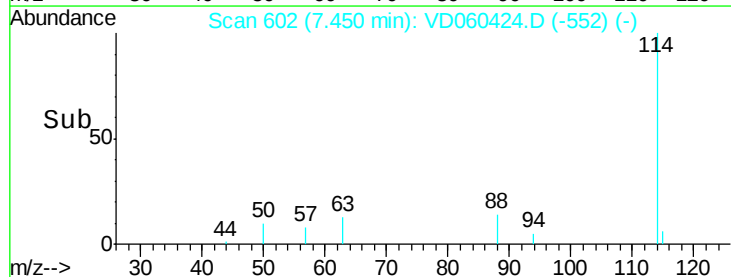
4000

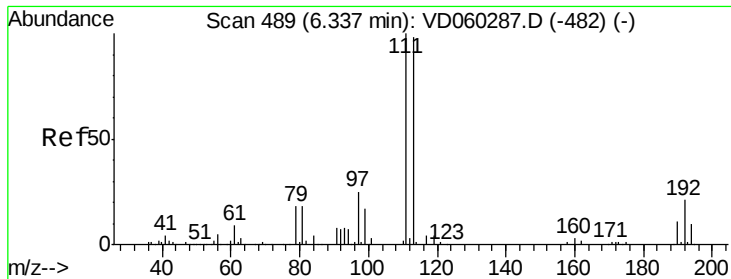
2000

0

7.35 7.40 7.45 7.50

Time-->





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.32 min Scan# 487

Delta R.T. -0.02 min

Lab File: VD060424.D

Acq: 20 Nov 2018 12:57

Instrument :

MSVOA_D

ClientSampleId :

FDSB-02(21-23)

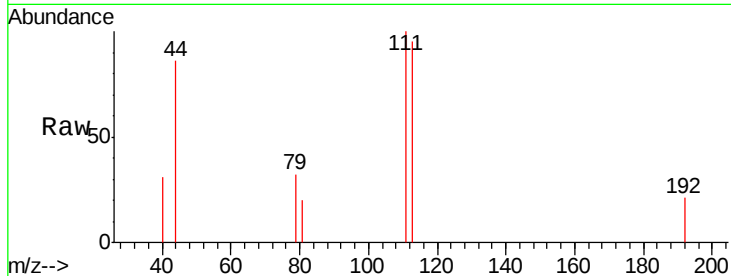
Tgt Ion:113 Resp: 4551

Ion Ratio Lower Upper

113 100

111 105.6 81.6 122.4

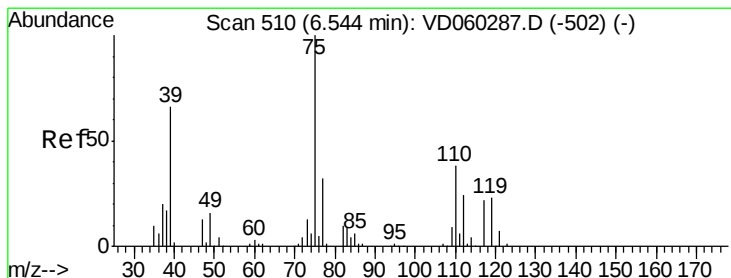
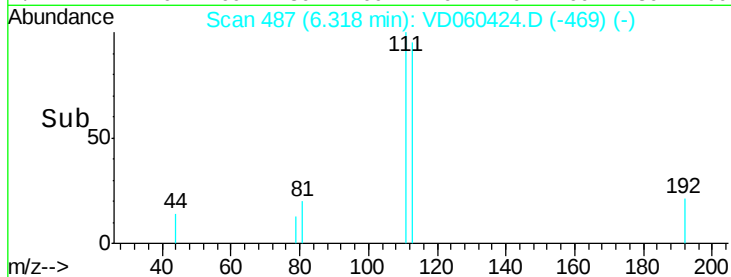
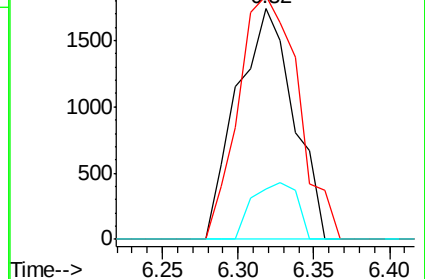
192 22.0 16.5 24.7



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



#36

1,1-Dichloropropene

Concen: 1.30 ug/l

RT: 6.40 min Scan# 495

Delta R.T. -0.15 min

Lab File: VD060424.D

Acq: 20 Nov 2018 12:57

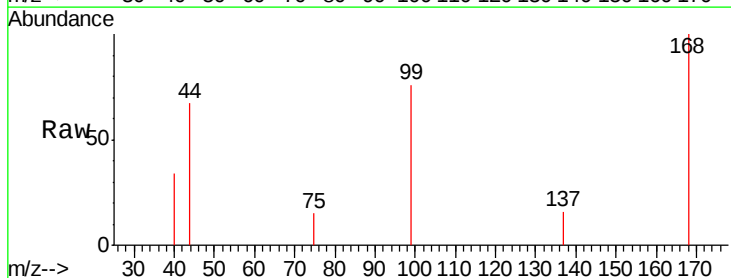
Tgt Ion: 75 Resp: 178

Ion Ratio Lower Upper

75 100

110 0.0 18.0 54.0#

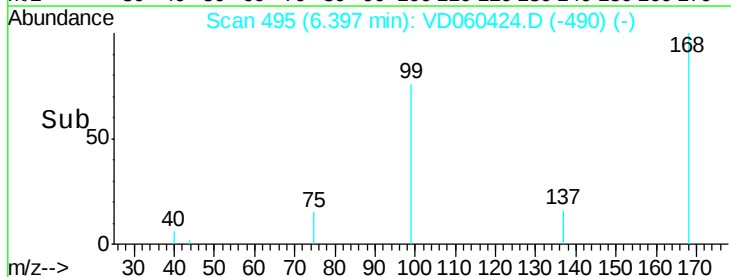
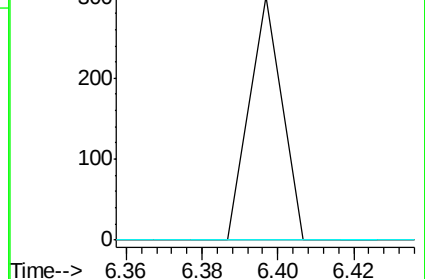
77 0.0 25.6 38.4#

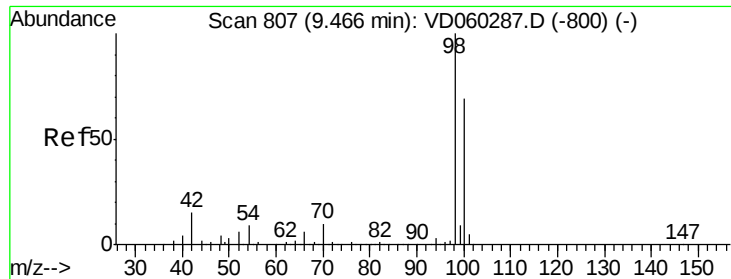


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.46 min Scan# 806

Delta R.T. -0.01 min

Lab File: VD060424.D

Acq: 20 Nov 2018 12:57

Instrument :

MSVOA_D

ClientSampleId :

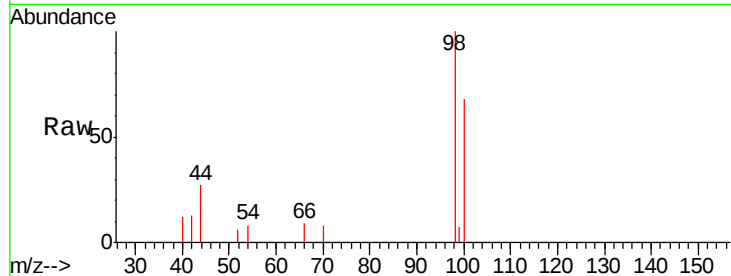
FDSB-02(21-23)

Tgt Ion: 98 Resp: 12587

Ion Ratio Lower Upper

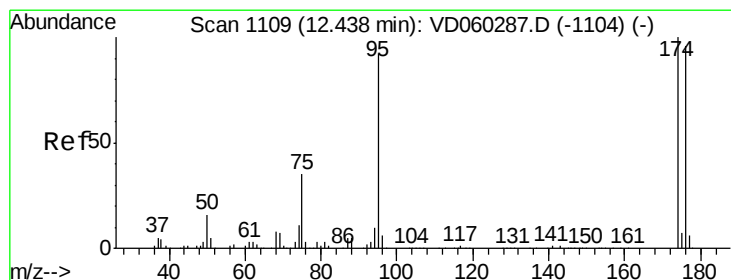
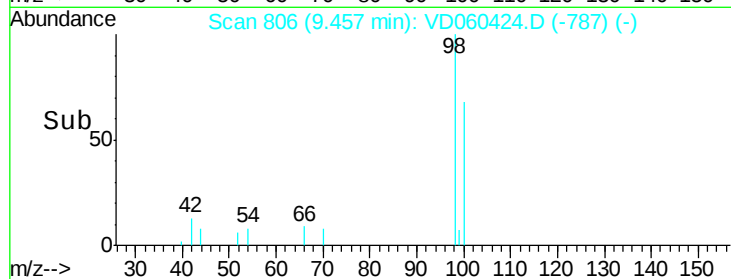
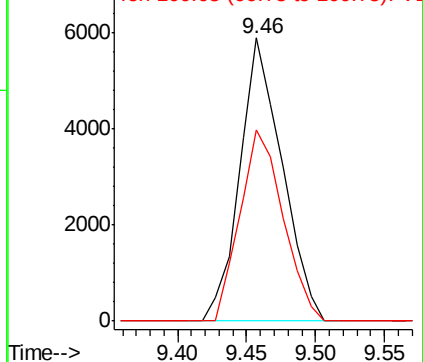
98 100

100 67.7 55.2 82.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VD060424.D

Acq: 20 Nov 2018 12:57

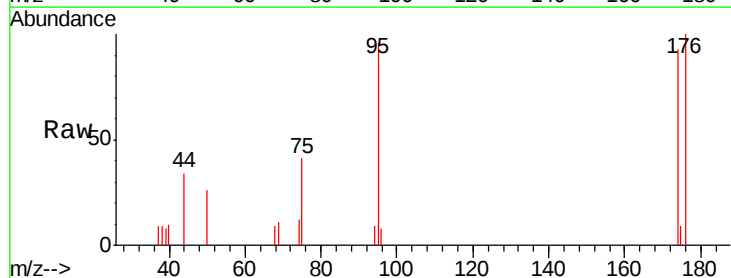
Tgt Ion: 95 Resp: 5603

Ion Ratio Lower Upper

95 100

174 96.8 0.0 160.8

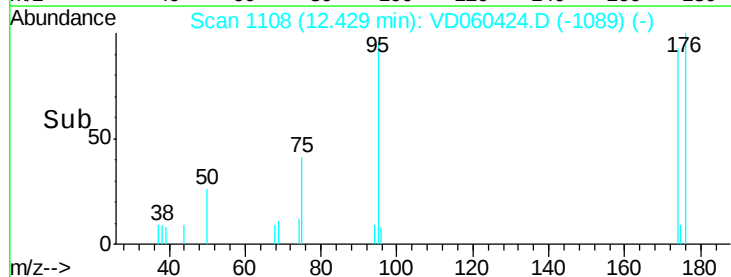
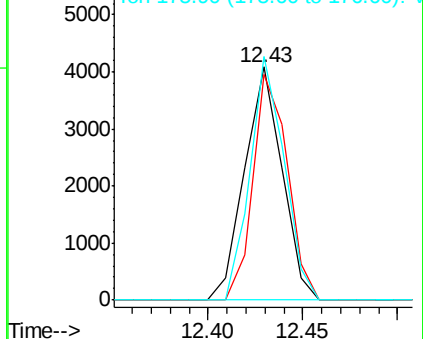
176 104.5 0.0 154.6

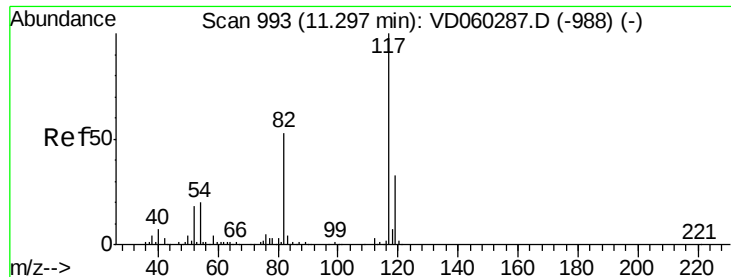


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): VDC

Ion 175.90 (175.60 to 176.60): VDC

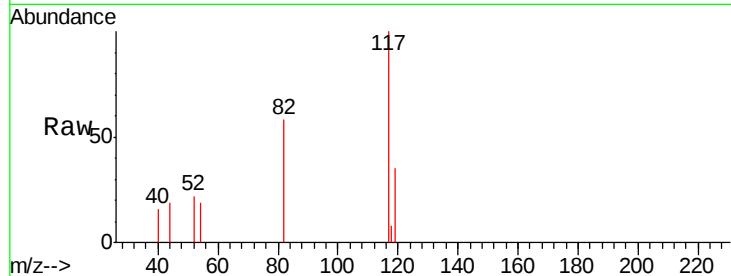




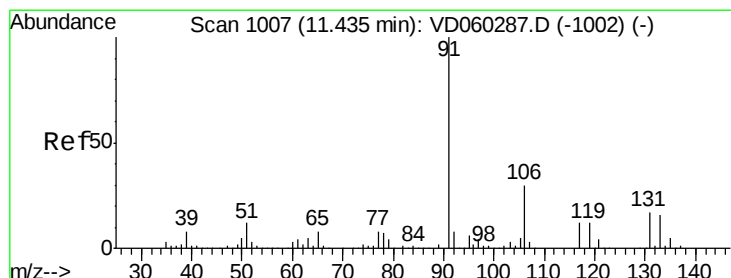
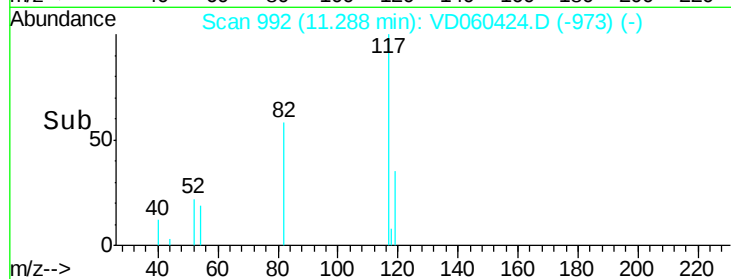
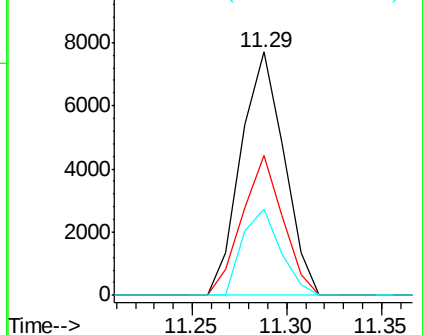
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.29 min Scan# 992
Delta R.T. -0.01 min
Lab File: VD060424.D
Acq: 20 Nov 2018 12:57

Instrument :
MSVOA_D
ClientSampleId :
FDSB-02(21-23)

Tgt Ion: 117 Resp: 12176
Ion Ratio Lower Upper
117 100
82 57.6 43.7 65.5
119 35.2 26.1 39.1

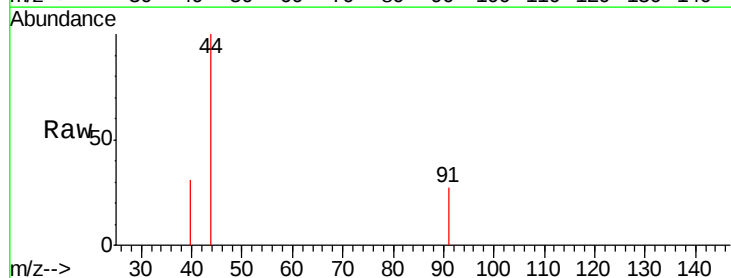


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VDC
Ion 118.95 (118.65 to 119.65): V

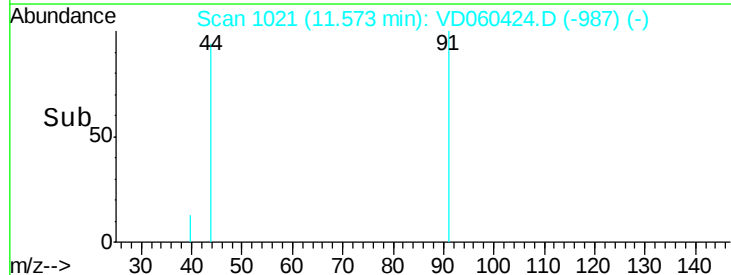
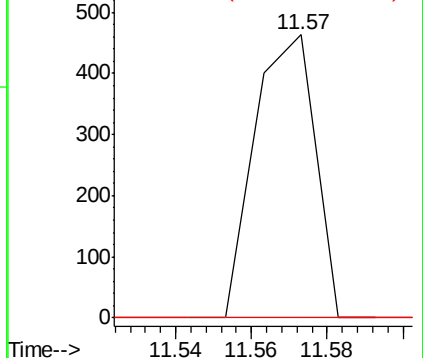


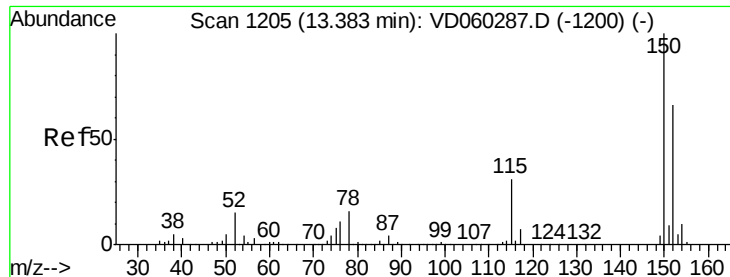
#67
Ethyl Benzene
Concen: 1.13 ug/l
RT: 11.57 min Scan# 1021
Delta R.T. 0.14 min
Lab File: VD060424.D
Acq: 20 Nov 2018 12:57

Tgt Ion: 91 Resp: 510
Ion Ratio Lower Upper
91 100
106 0.0 24.6 36.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.05 (105.75 to 106.75): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.37 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VD060424.D

Acq: 20 Nov 2018 12:57

Instrument :

MSVOA_D

ClientSampleId :

FDSB-02(21-23)

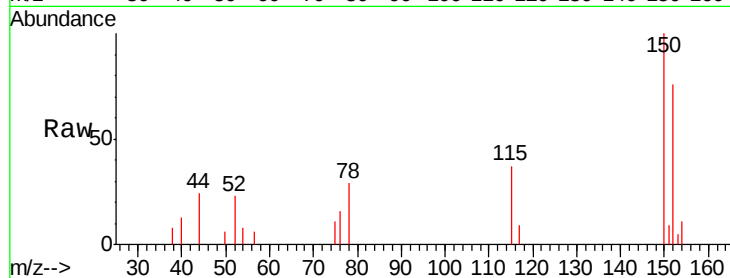
Tgt Ion: 152 Resp: 5949

Ion Ratio Lower Upper

152 100

115 48.8 24.1 72.3

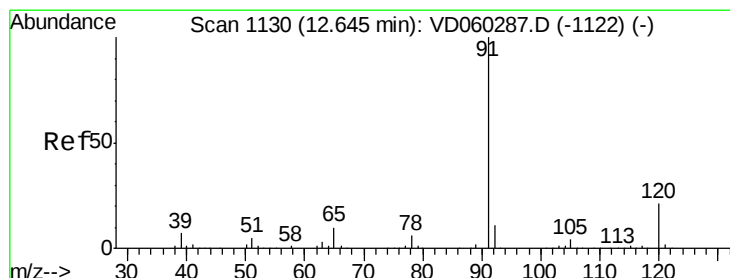
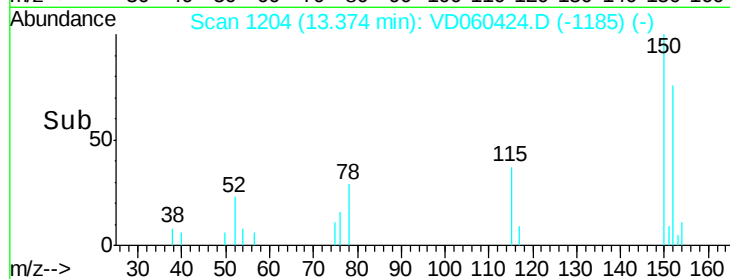
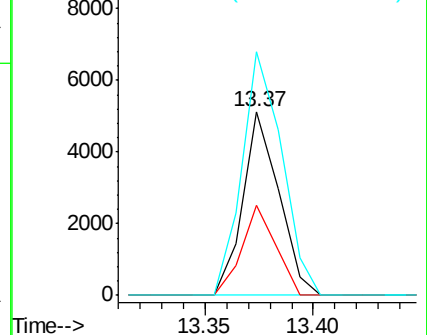
150 132.4 0.0 310.6



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



#78

n-propylbenzene

Concen: 1.16 ug/l

RT: 12.65 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VD060424.D

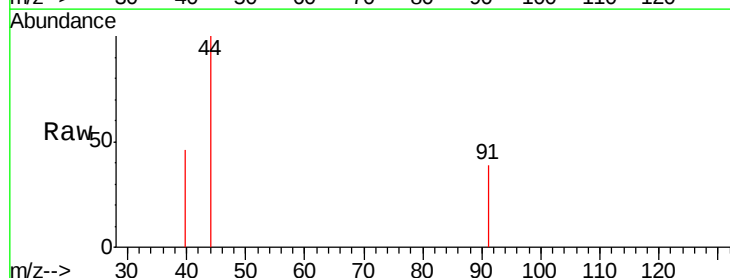
Acq: 20 Nov 2018 12:57

Tgt Ion: 91 Resp: 628

Ion Ratio Lower Upper

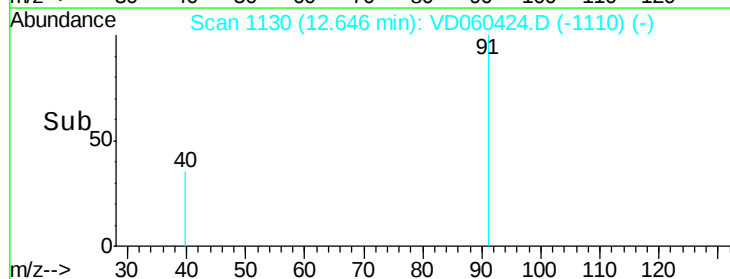
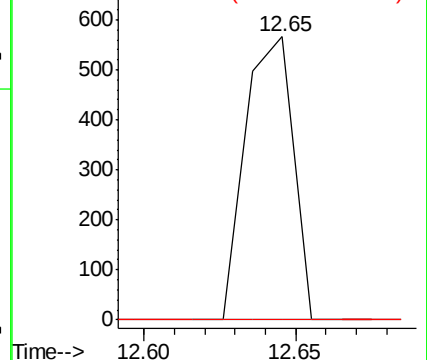
91 100

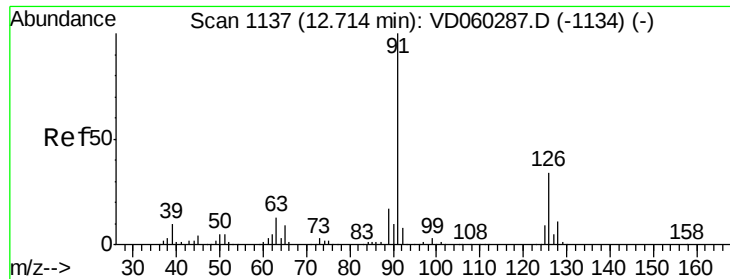
120 0.0 10.4 31.4#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

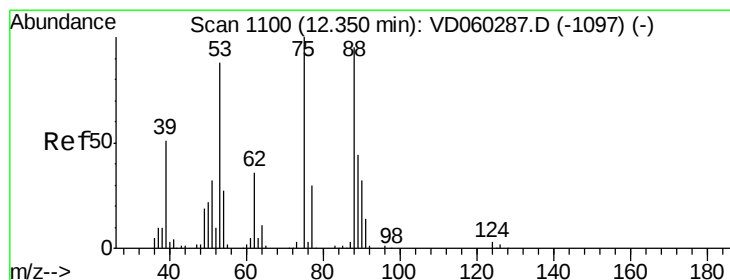
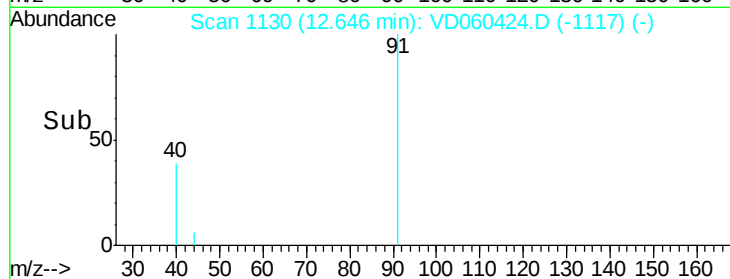
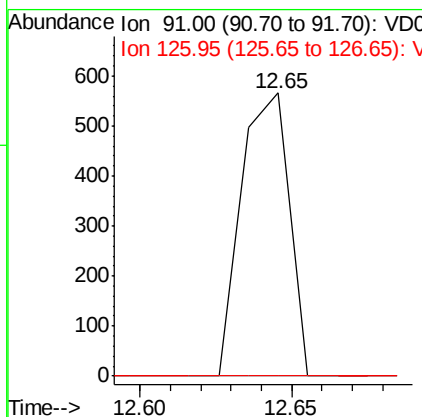
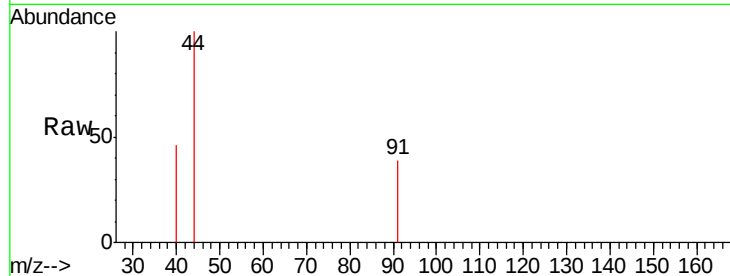




#79
 2-Chlorotoluene
 Concen: 2.12 ug/l
 RT: 12.65 min Scan# 1130
 Delta R.T. -0.07 min
 Lab File: VD060424.D
 Acq: 20 Nov 2018 12:57

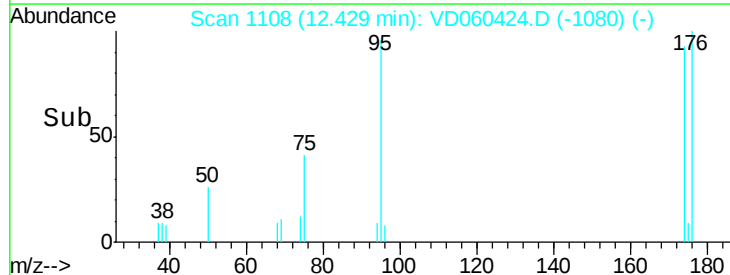
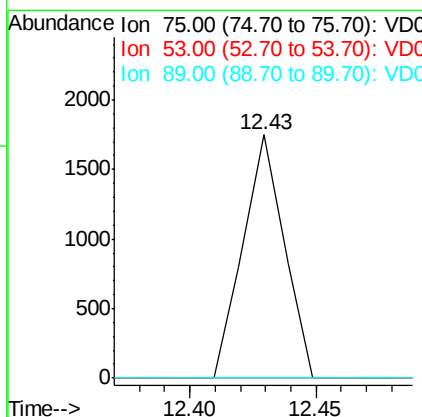
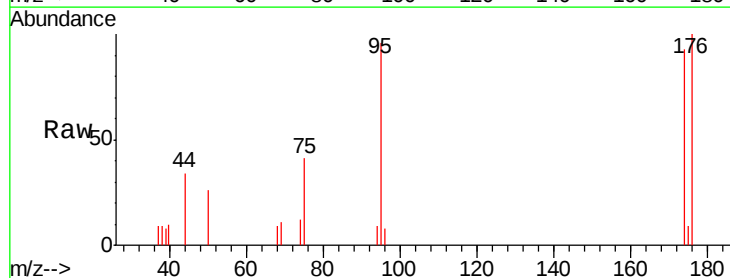
Instrument :
 MSVOA_D
 ClientSampleId :
 FDSB-02(21-23)

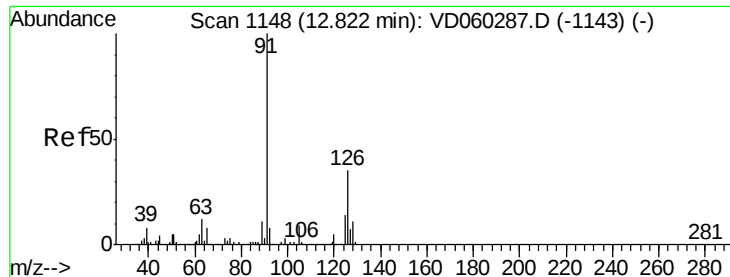
Tgt Ion: 91 Resp: 628
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.4 52.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 98.27 ug/l
 RT: 12.43 min Scan# 1108
 Delta R.T. 0.08 min
 Lab File: VD060424.D
 Acq: 20 Nov 2018 12:57

Tgt Ion: 75 Resp: 1991
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.6 103.0#
 89 0.0 34.1 51.1#





#82

4-Chlorotoluene

Concen: 1.76 ug/l

RT: 12.81 min Scan# 1147

Delta R.T. -0.01 min

Lab File: VD060424.D

Acq: 20 Nov 2018 12:57

Instrument :

MSVOA_D

ClientSampleId :

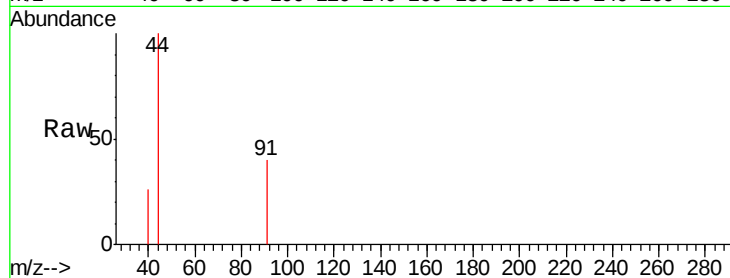
FDSB-02(21-23)

Tgt Ion: 91 Resp: 586

Ion Ratio Lower Upper

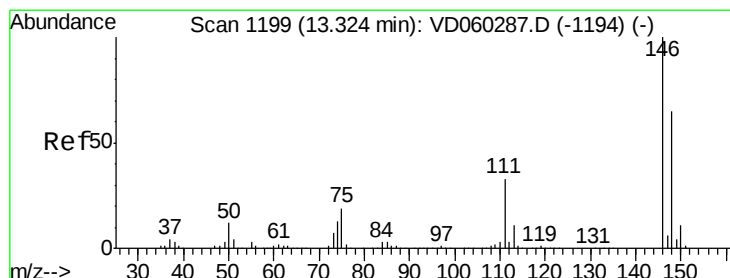
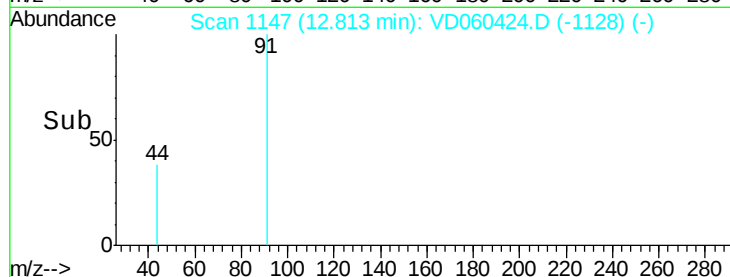
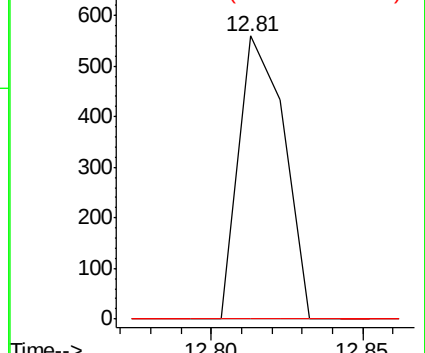
91 100

126 0.0 14.8 44.4#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#87

1,3-Dichlorobenzene

Concen: 1.72 ug/l

RT: 13.31 min Scan# 1198

Delta R.T. -0.01 min

Lab File: VD060424.D

Acq: 20 Nov 2018 12:57

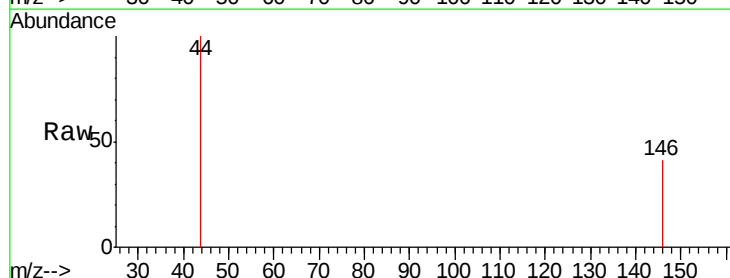
Tgt Ion: 146 Resp: 353

Ion Ratio Lower Upper

146 100

111 0.0 20.2 60.5#

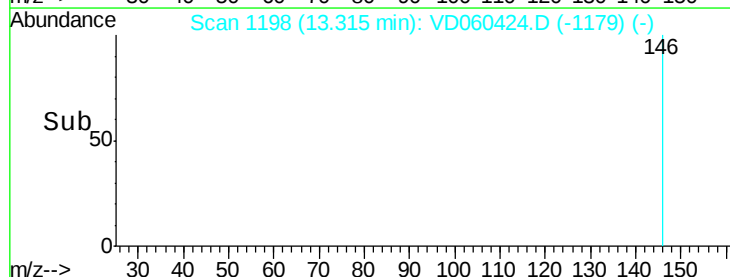
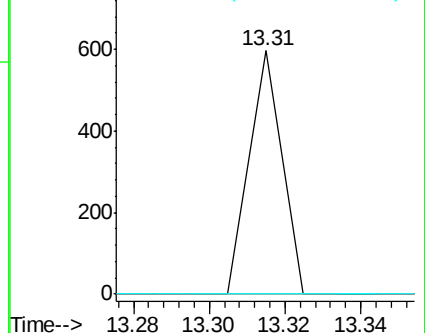
148 0.0 32.0 96.0#

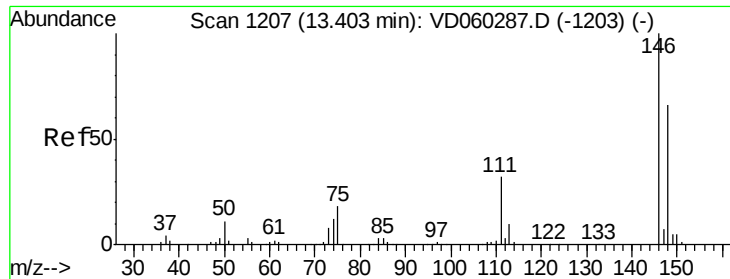


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

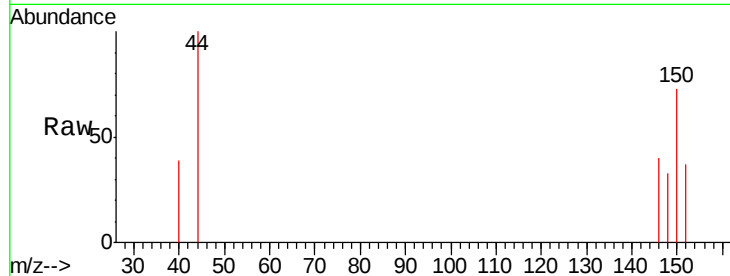




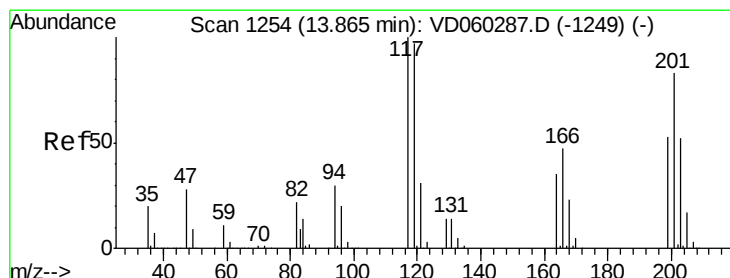
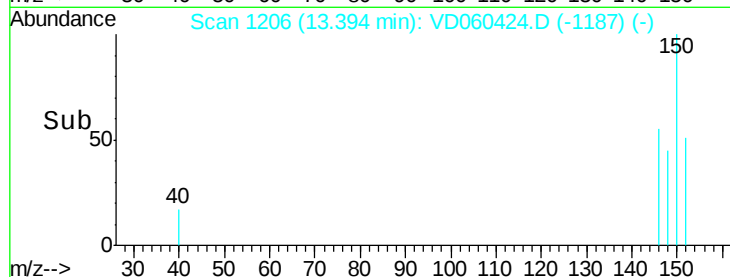
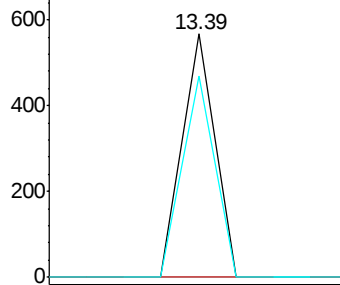
#88
 1,4-Dichlorobenzene
 Concen: 1.67 ug/l
 RT: 13.39 min Scan# 1206
 Delta R.T. -0.01 min
 Lab File: VD060424.D
 Acq: 20 Nov 2018 12:57

Instrument :
 MSVOA_D
 ClientSampleId :
 FDSB-02(21-23)

Tgt Ion:146 Resp: 335
 Ion Ratio Lower Upper
 146 100
 111 0.0 16.0 47.9#
 148 82.5 32.9 98.7

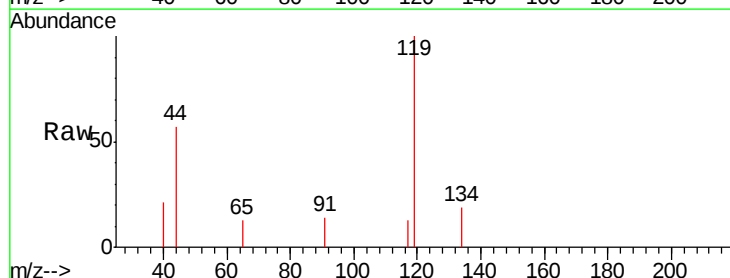


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

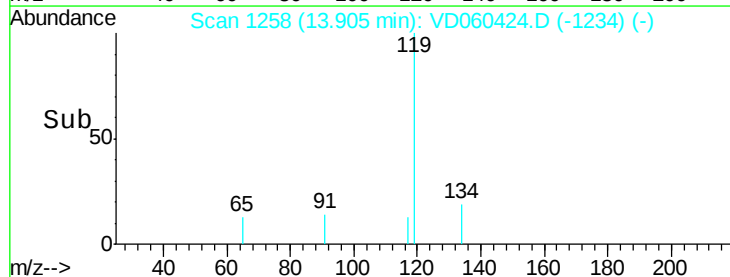
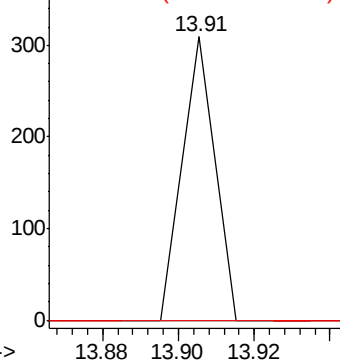


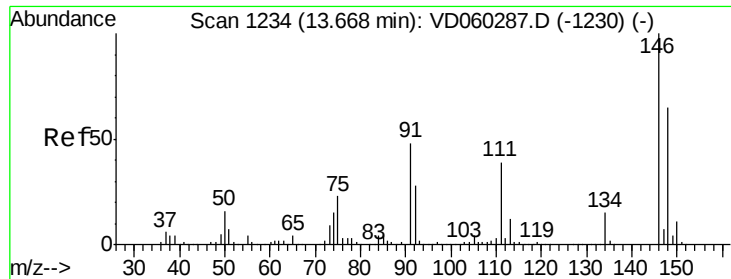
#90
 Hexachloroethane
 Concen: 2.08 ug/l
 RT: 13.91 min Scan# 1258
 Delta R.T. 0.04 min
 Lab File: VD060424.D
 Acq: 20 Nov 2018 12:57

Tgt Ion:117 Resp: 182
 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





#91

1,2-Dichlorobenzene

Concen: 2.36 ug/l

RT: 13.66 min Scan# 1233

Delta R.T. -0.01 min

Lab File: VD060424.D

Acq: 20 Nov 2018 12:57

Instrument :

MSVOA_D

ClientSampleId :

FDSB-02(21-23)

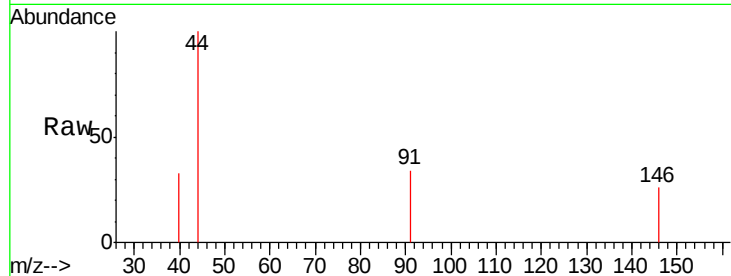
Tgt Ion:146 Resp: 397

Ion Ratio Lower Upper

146 100

111 0.0 18.9 56.9#

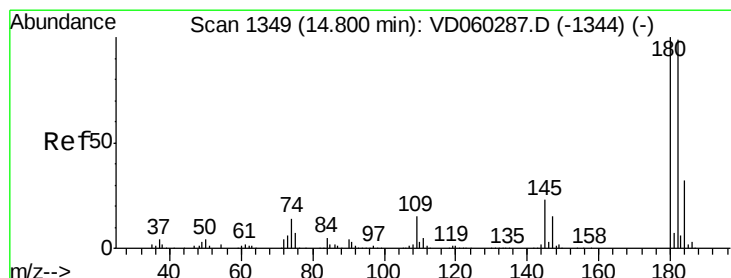
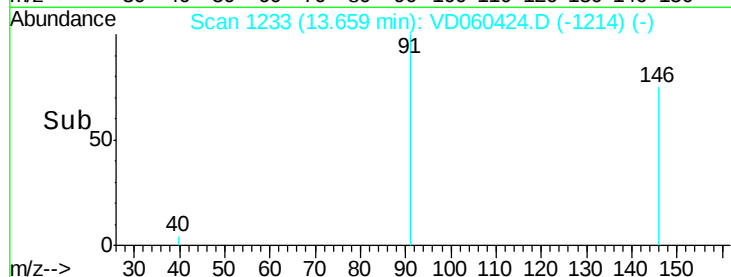
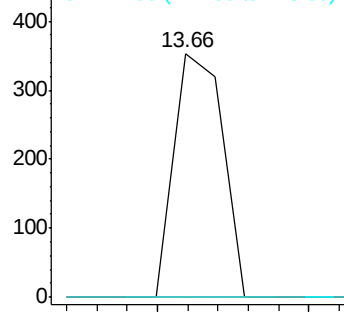
148 0.0 31.6 94.8#



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



#93

1,2,4-Trichlorobenzene

Concen: 4.78 ug/l

RT: 14.79 min Scan# 1348

Delta R.T. -0.01 min

Lab File: VD060424.D

Acq: 20 Nov 2018 12:57

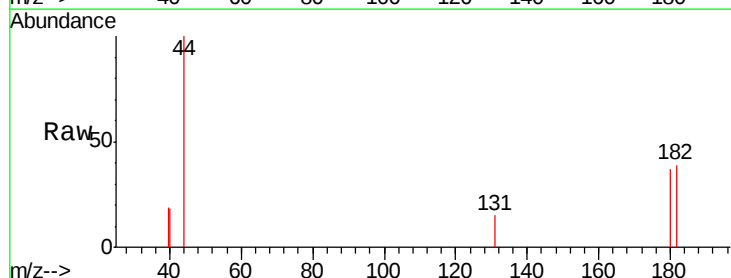
Tgt Ion:180 Resp: 638

Ion Ratio Lower Upper

180 100

182 106.8 48.1 144.4

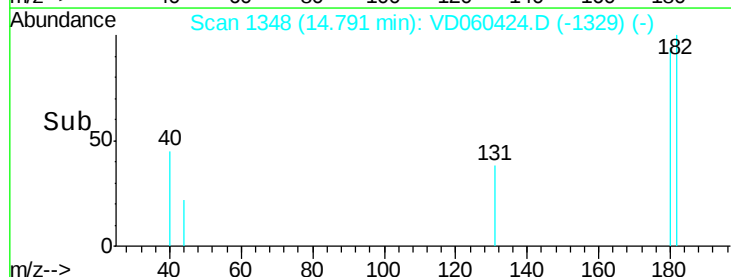
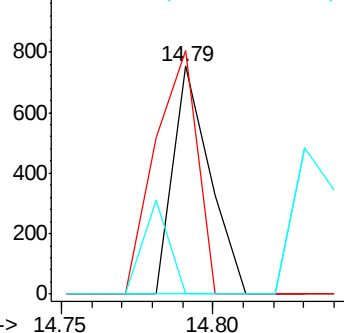
145 0.0 11.5 34.4#

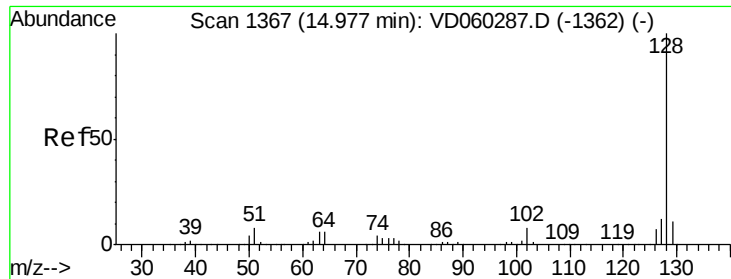


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

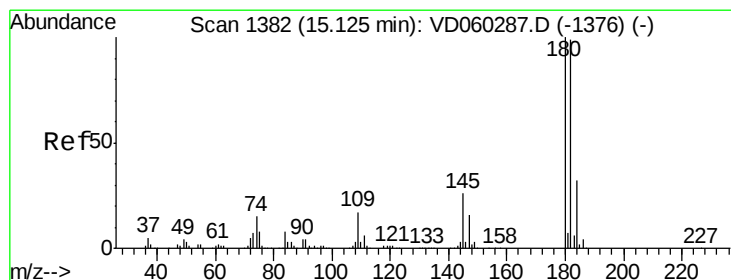
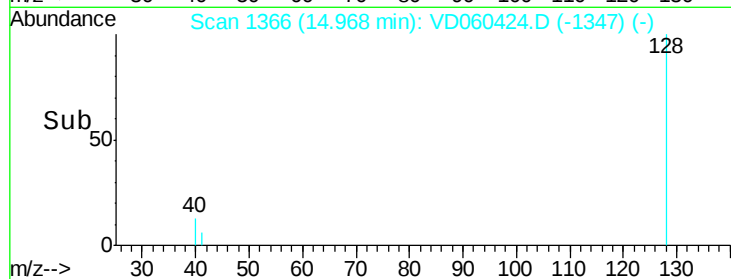
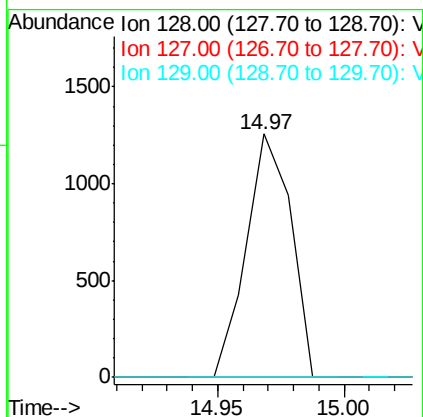
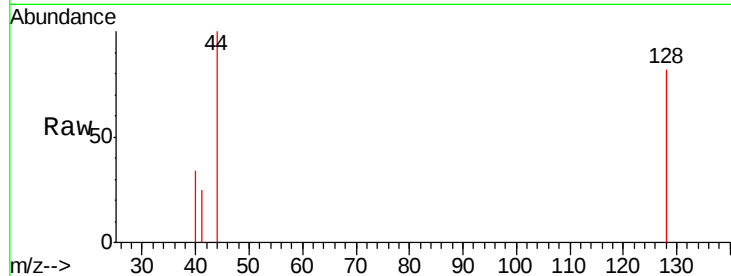




#95
Naphthalene
Concen: 9.51 ug/l
RT: 14.97 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VD060424.D
Acq: 20 Nov 2018 12:57

Instrument :
MSVOA_D
ClientSampleId :
FDSB-02(21-23)

Tgt Ion:128 Resp: 1549
Ion Ratio Lower Upper
128 100
127 0.0 9.6 14.4#
129 0.0 8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: 5.98 ug/l
RT: 15.13 min Scan# 1382
Delta R.T. 0.00 min
Lab File: VD060424.D
Acq: 20 Nov 2018 12:57

Tgt Ion:180 Resp: 639
Ion Ratio Lower Upper
180 100
182 117.0 48.9 146.7
145 0.0 12.9 38.6#

