

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111418\
 Data File : VD060385.D
 Acq On : 14 Nov 2018 18:06
 Operator : JC/SY
 Sample : J5918-06
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FDSB-12(26-28)

Quant Time: Nov 15 05:43:18 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	6.37	168	1441593	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	7.41	114	2038289	50.00	ug/l	-0.05
63) Chlorobenzene-d5	11.26	117	1687176	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	13.35	152	885906	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.76	65	429029	41.56	ug/l	-0.04
Spiked Amount			Recovery	=	83.12%	
35) Dibromofluoromethane	6.30	113	584403	38.45	ug/l	-0.04
Spiked Amount			Recovery	=	76.90%	
50) Toluene-d8	9.42	98	1672470	37.60	ug/l	-0.04
Spiked Amount			Recovery	=	75.20%	
62) 4-Bromofluorobenzene	12.41	95	632122	39.22	ug/l	-0.03
Spiked Amount			Recovery	=	78.44%	

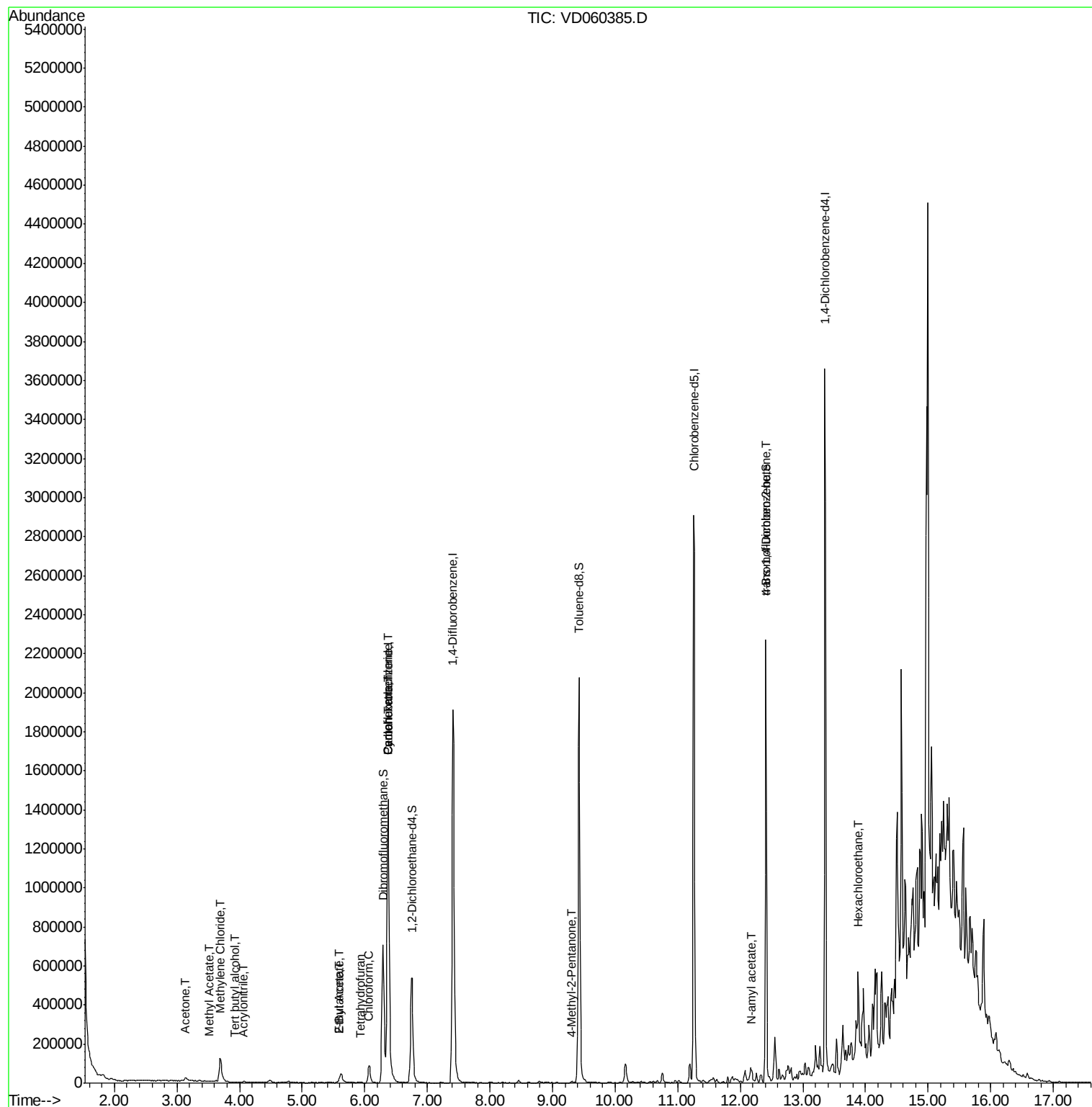
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	1518	Below Cal	#	68
11) Tert butyl alcohol	3.93	59	1765	4.164	ug/l #	70
15) Acrylonitrile	4.05	53	3060	1.238	ug/l #	83
16) Acetone	3.14	43	33053	18.461	ug/l #	89
18) Methyl Acetate	3.52	43	5045	1.321	ug/l #	63
20) Methylene Chloride	3.69	84	83196	5.238	ug/l	94
25) 2-Butanone	5.59	43	20513	5.512	ug/l	99
29) Tetrahydrofuran	5.92	42	2165	1.103	ug/l #	48
30) Chloroform	6.07	83	91847	3.563	ug/l	99
31) Cyclohexane	6.37	56	26410	1.072	ug/l #	1
37) Ethyl Acetate	5.59	43	20918	2.257	ug/l #	69
38) Carbon Tetrachloride	6.37	117	112578	6.027	ug/l #	16
51) 4-Methyl-2-Pentanone	9.31	43	10575	1.396	ug/l	91
74) N-amyl acetate	12.18	43	19814	1.197	ug/l #	46
81) trans-1,4-Dichloro-2-buten	12.41	75	252010	83.528	ug/l #	15
89) n-Butylbenzene	13.63	91	51783	Below Cal		95
90) Hexachloroethane	13.88	117	16217	1.243	ug/l #	9

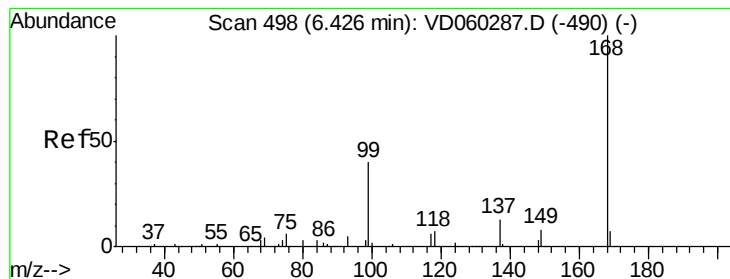
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111418\
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Quant Title : SW846 8260
QLast Update : Tue Nov 06 13:56:04 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.37 min Scan# 493

Delta R.T. -0.05 min

Lab File: VD060385.D

Acq: 14 Nov 2018 18:06

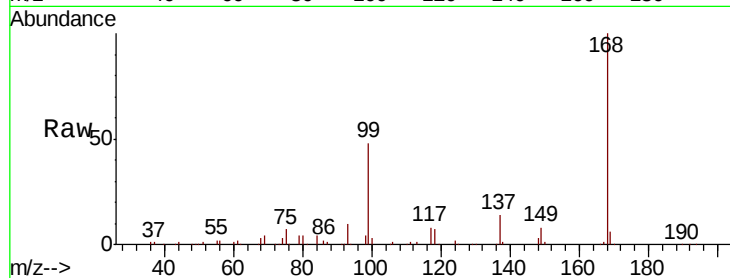
Instrument :
MSVOA_D
ClientSampleId :
FDSB-12(26-28)

Tot Ion:168 Resp: 1441593

Ion Ratio Lower Upper

168 100

99 48.0 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.37

500000

400000

300000

200000

100000

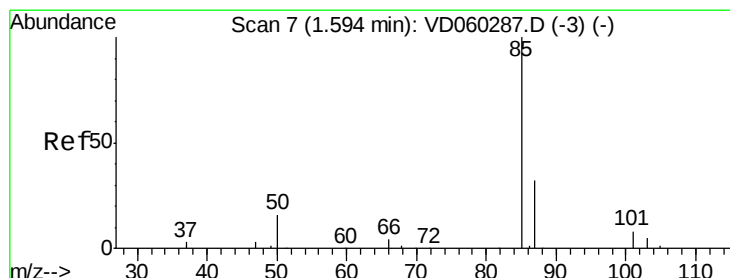
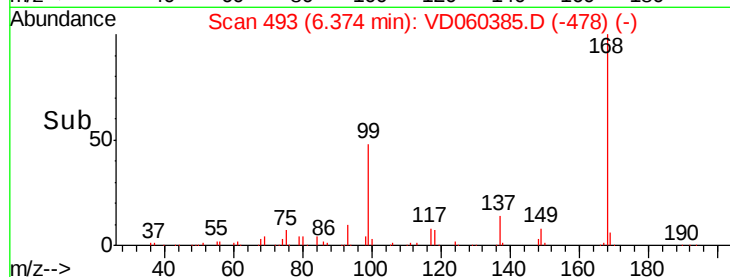
0

Time-->

6.20

6.40

6.60



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.58 min Scan# 6

Delta R.T. -0.01 min

Lab File: VD060385.D

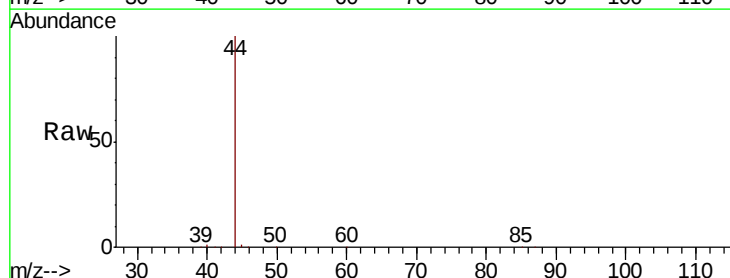
Acq: 14 Nov 2018 18:06

Tgt Ion: 85 Resp: 1518

Ion Ratio Lower Upper

85 100

87 51.8 16.8 50.4#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

800

600

400

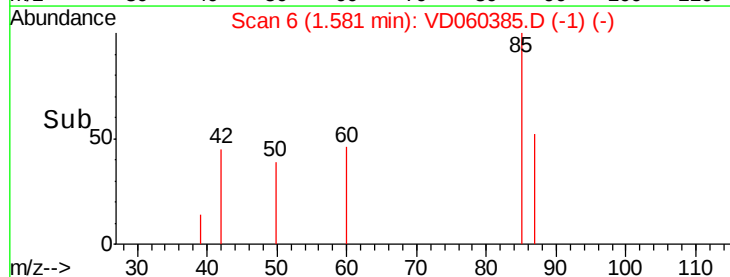
200

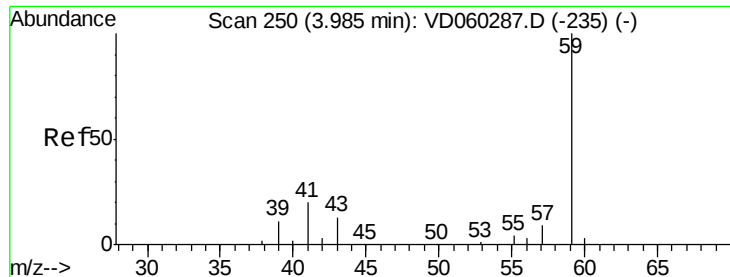
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Time-->

1.55

1.60

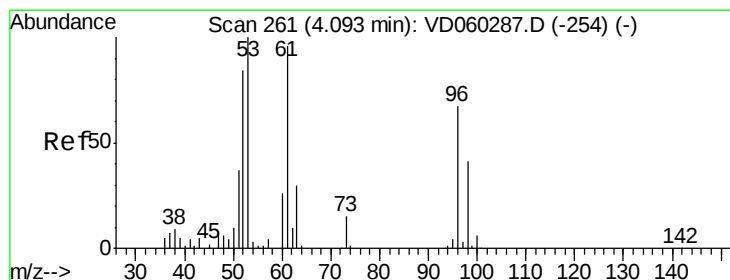
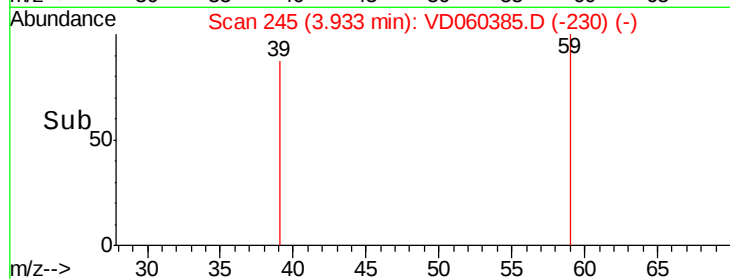
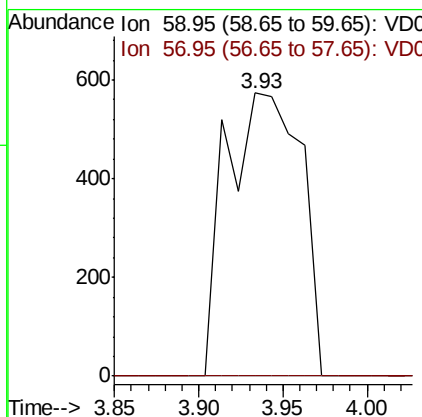
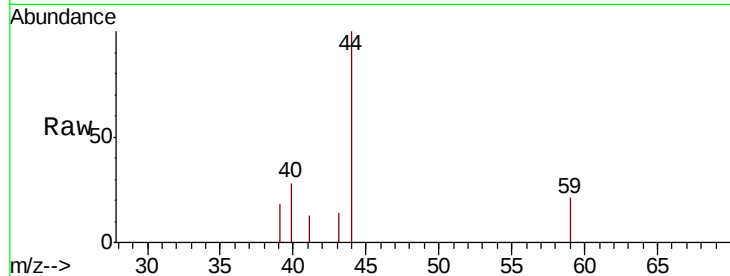




#11
Tert butyl alcohol
Concen: 4.164 ug/l
RT: 3.93 min Scan# 245
Delta R.T. -0.05 min
Lab File: VD060385.D
Acq: 14 Nov 2018 18:06

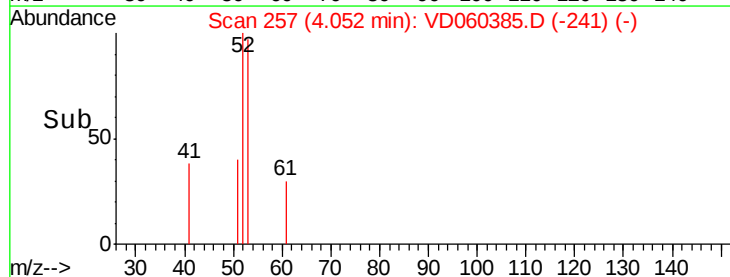
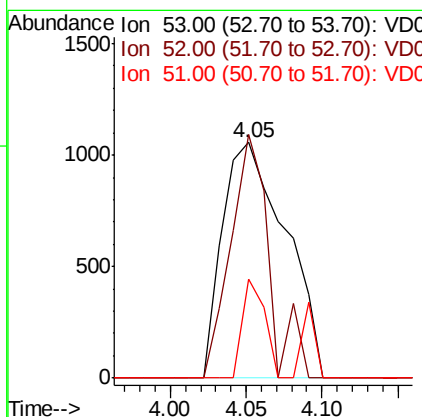
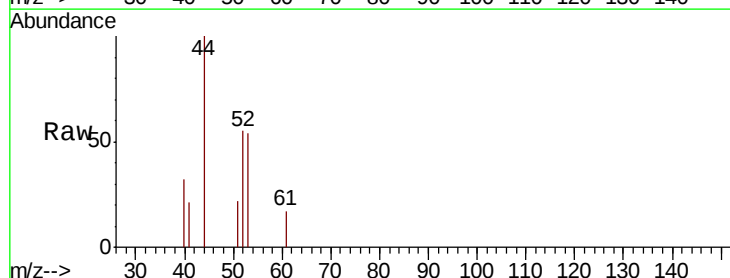
Instrument :
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FDSB-12(26-28)

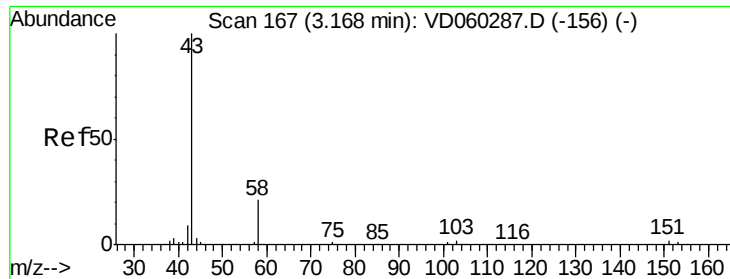
Tot Ion: 59 Resp: 1765
Ion Ratio Lower Upper
59 100
57 0.0 9.3 13.9#



#15
Acrylonitrile
Concen: 1.238 ug/l
RT: 4.05 min Scan# 257
Delta R.T. -0.04 min
Lab File: VD060385.D
Acq: 14 Nov 2018 18:06

Tgt Ion: 53 Resp: 3060
Ion Ratio Lower Upper
53 100
52 103.2 67.0 100.4#
51 41.7 29.9 44.9





#16

Acetone

Concen: 18.461 ug/l

RT: 3.14 min Scan# 164

Delta R.T. -0.03 min

Lab File: VD060385.D

Acq: 14 Nov 2018 18:06

Instrument :

MSVOA_D

ClientSampleId :

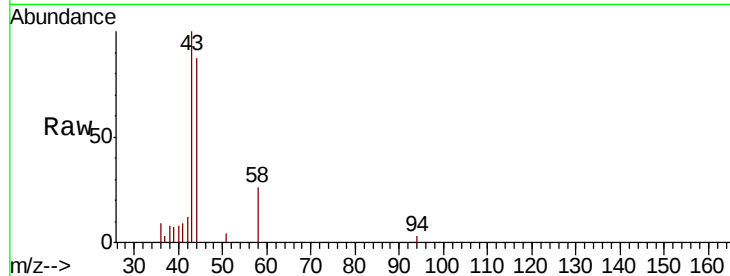
FDSB-12(26-28)

Tot Ion: 43 Resp: 33053

Ion Ratio Lower Upper

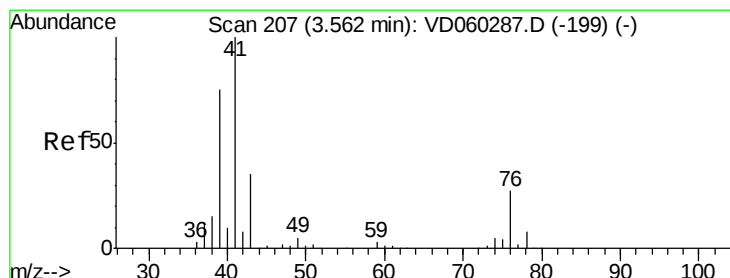
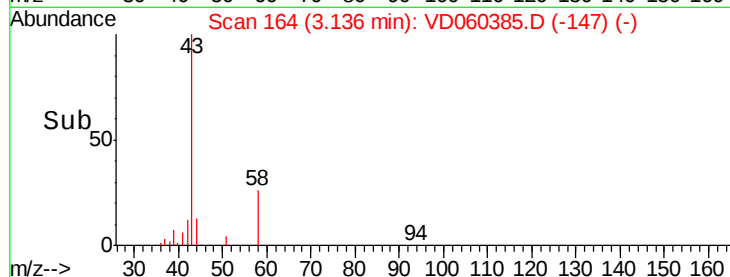
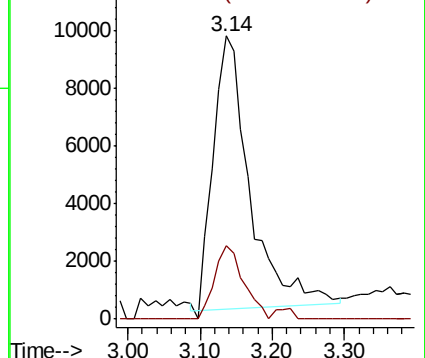
43 100

58 26.1 16.9 25.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.321 ug/l

RT: 3.52 min Scan# 203

Delta R.T. -0.04 min

Lab File: VD060385.D

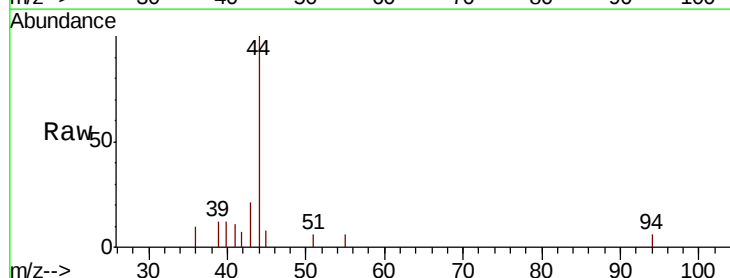
Acq: 14 Nov 2018 18:06

Tgt Ion: 43 Resp: 5045

Ion Ratio Lower Upper

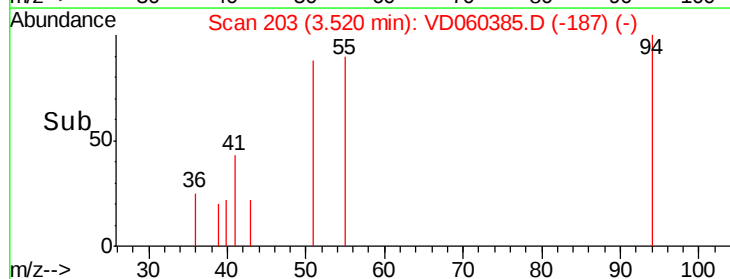
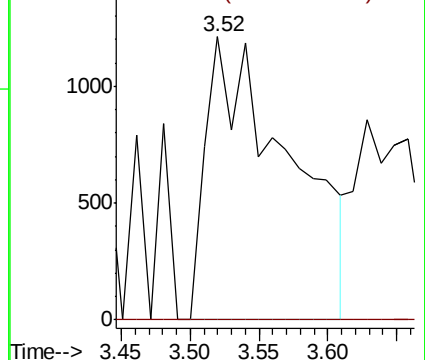
43 100

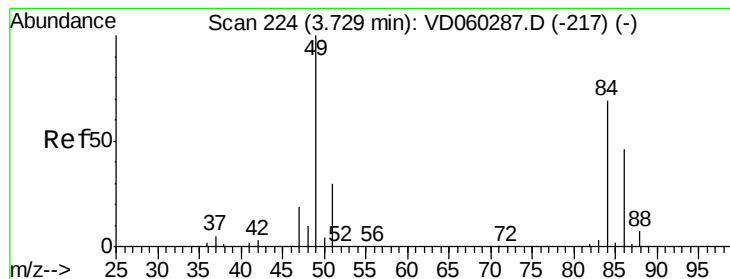
74 0.0 12.4 18.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methvlene Chloride

Concen: 5.238 ug/l

RT: 3.69 min Scan# 220

Delta R.T. -0.04 min

Lab File: VD060385.D

Acq: 14 Nov 2018 18:06

Instrument :

MSVOA_D

ClientSampleId :

FDSB-12(26-28)

Tot Ion: 84 Resp: 83196

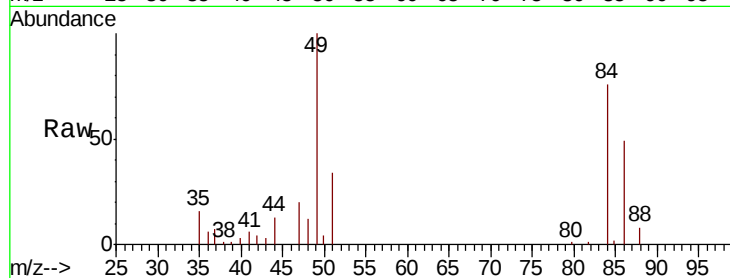
Ion Ratio Lower Upper

84 100

49 131.7 115.6 173.4

51 45.0 35.6 53.4

86 64.2 52.3 78.5



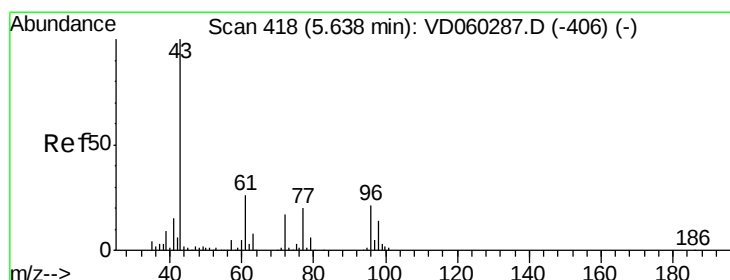
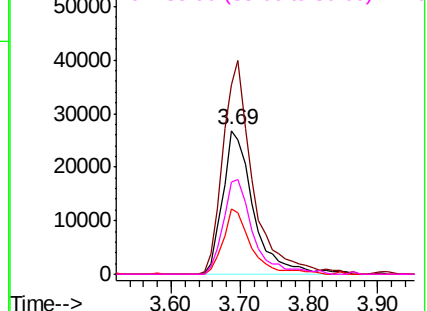
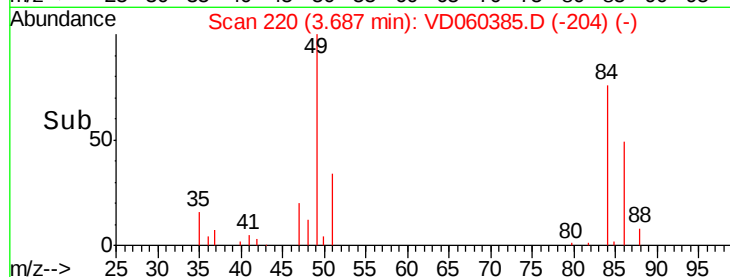
Abundance

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



#25

2-Butanone

Concen: 5.512 ug/l

RT: 5.59 min Scan# 413

Delta R.T. -0.05 min

Lab File: VD060385.D

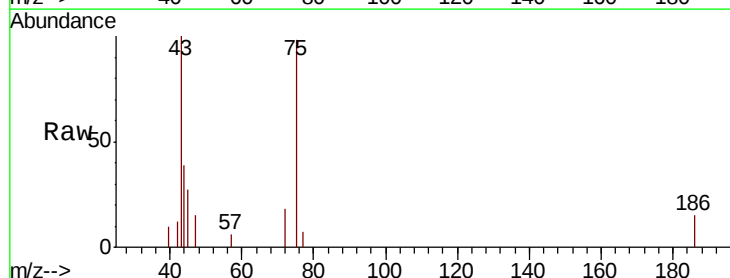
Acq: 14 Nov 2018 18:06

Tgt Ion: 43 Resp: 20513

Ion Ratio Lower Upper

43 100

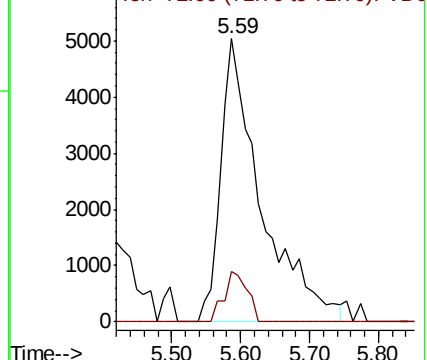
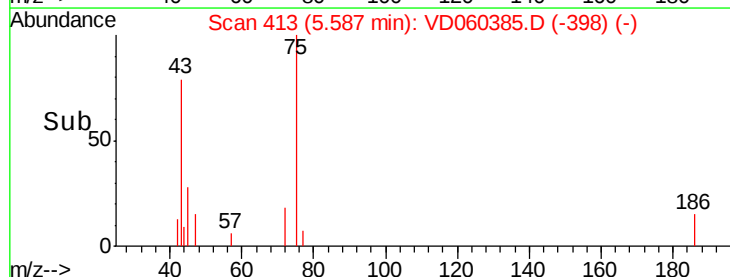
72 17.6 13.8 20.8

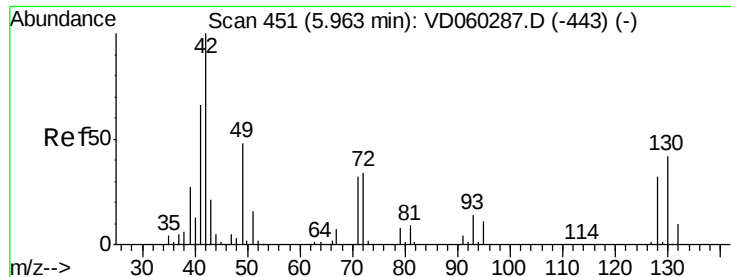


Abundance

Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#29

Tetrahydrofuran

Concen: 1.103 ug/l

RT: 5.92 min Scan# 447

Delta R.T. -0.04 min

Lab File: VD060385.D

Acq: 14 Nov 2018 18:06

Instrument :

MSVOA_D

ClientSampleId :

FDSB-12(26-28)

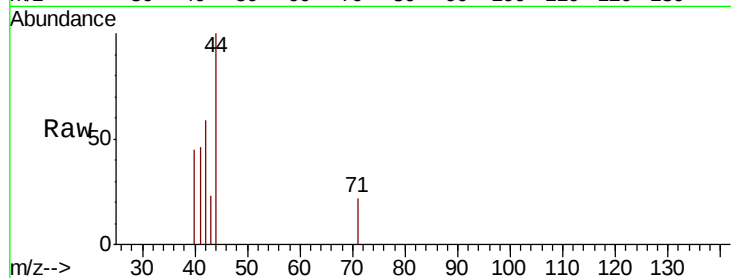
Tot Ion: 42 Resp: 2165

Ion Ratio Lower Upper

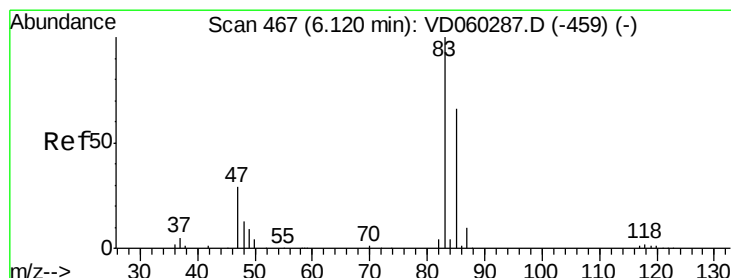
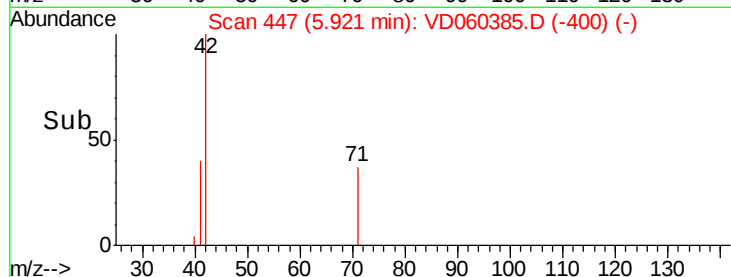
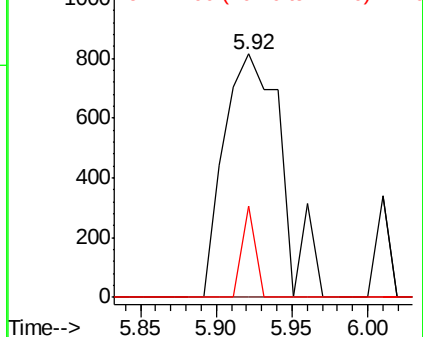
42 100

72 0.0 27.6 41.4#

71 8.3 26.5 39.7#



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



#30

Chloroform

Concen: 3.563 ug/l

RT: 6.07 min Scan# 462

Delta R.T. -0.05 min

Lab File: VD060385.D

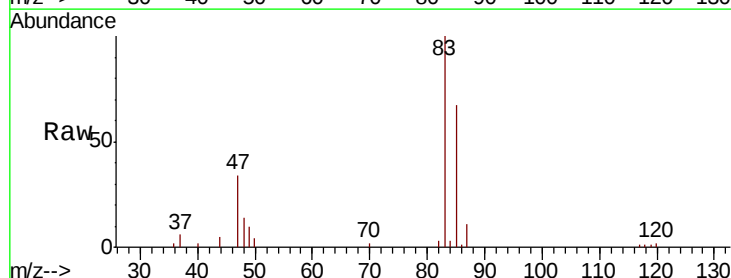
Acq: 14 Nov 2018 18:06

Tgt Ion: 83 Resp: 91847

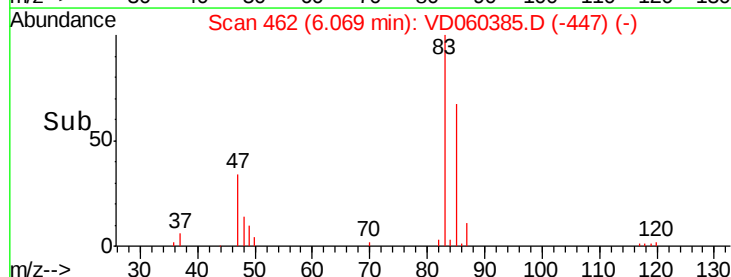
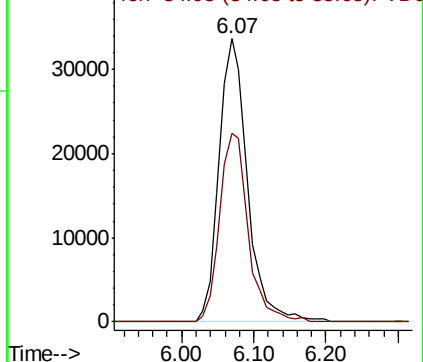
Ion Ratio Lower Upper

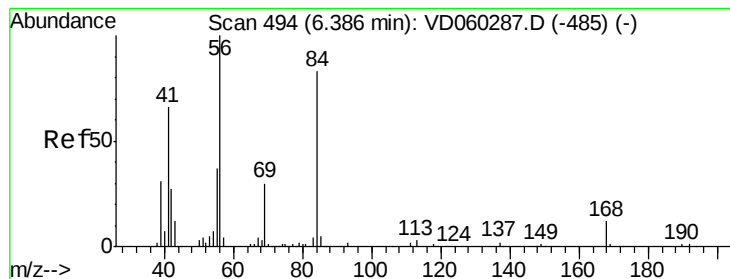
83 100

85 66.7 52.5 78.7



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC





#31

Cyclohexane

Concen: 1.072 ug/l

RT: 6.37 min Scan# 493

Delta R.T. -0.01 min

Lab File: VD060385.D

Acq: 14 Nov 2018 18:06

Instrument :

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FDSB-12(26-28)

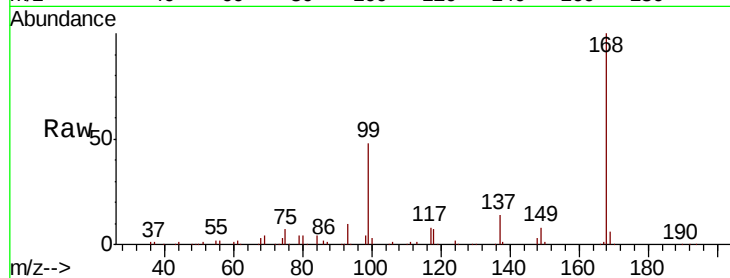
Tot Ion: 56 Resp: 26410

Ion Ratio Lower Upper

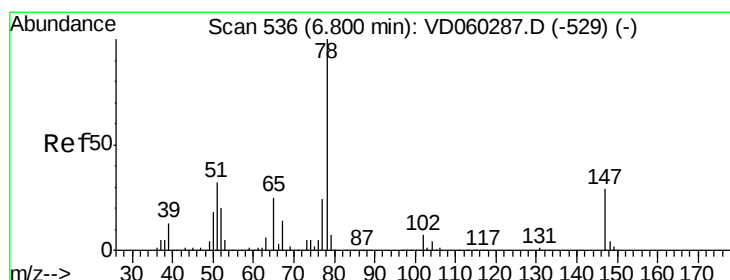
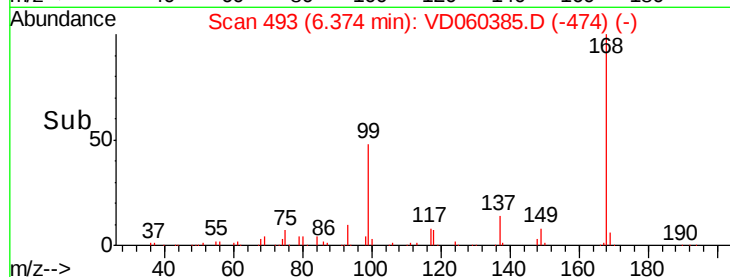
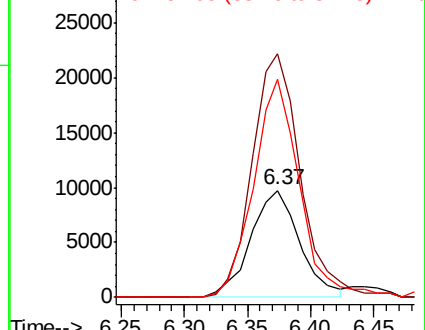
56 100

69 227.0 22.2 33.2#

84 203.3 63.0 94.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 6.76 min Scan# 532

Delta R.T. -0.04 min

Lab File: VD060385.D

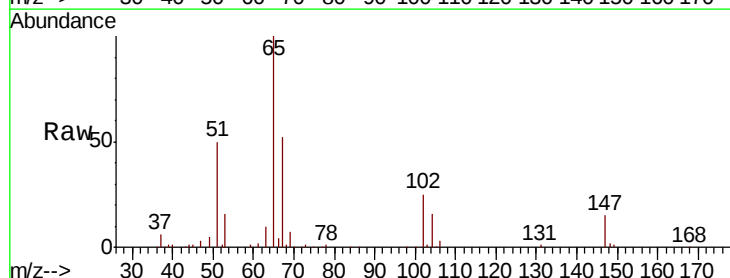
Acq: 14 Nov 2018 18:06

Tgt Ion: 65 Resp: 429029

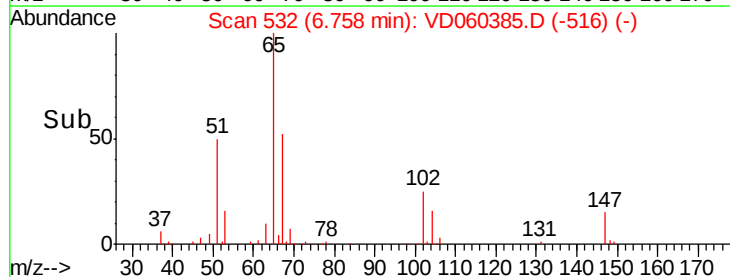
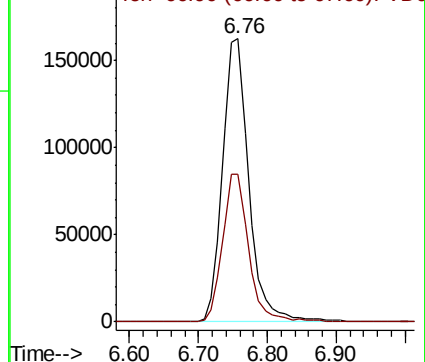
Ion Ratio Lower Upper

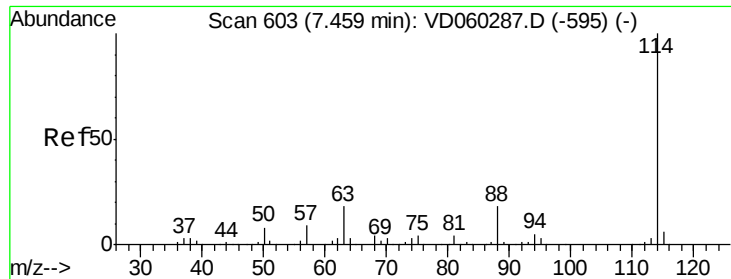
65 100

67 52.1 0.0 109.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

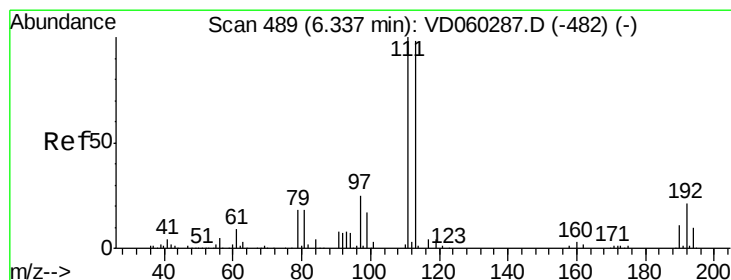
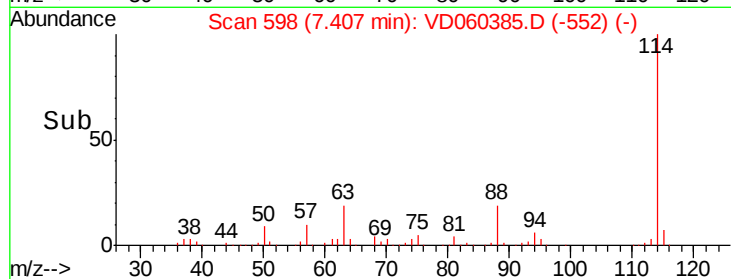
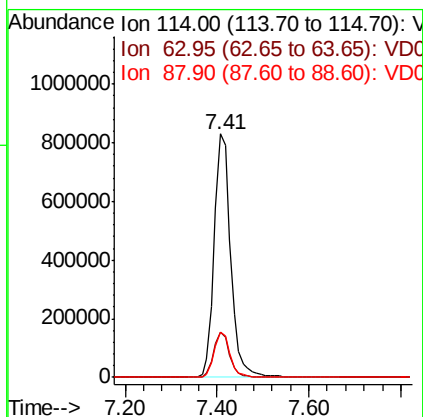
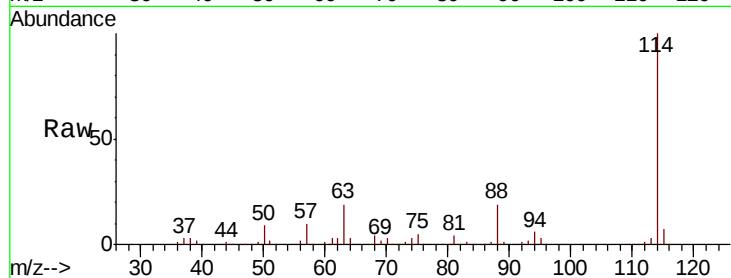




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.41 min Scan# 598
 Delta R.T. -0.05 min
 Lab File: VD060385.D
 Acq: 14 Nov 2018 18:06

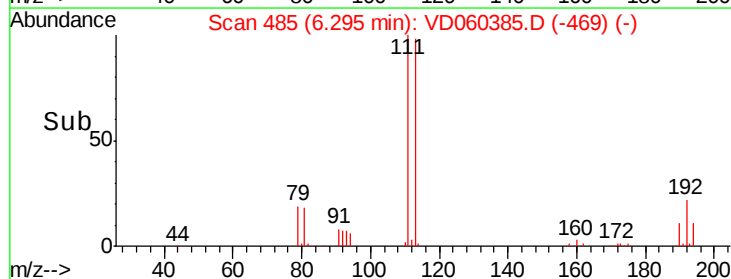
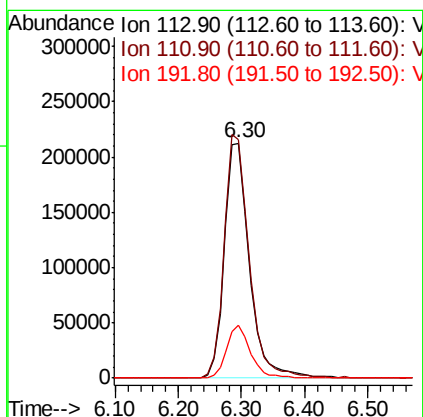
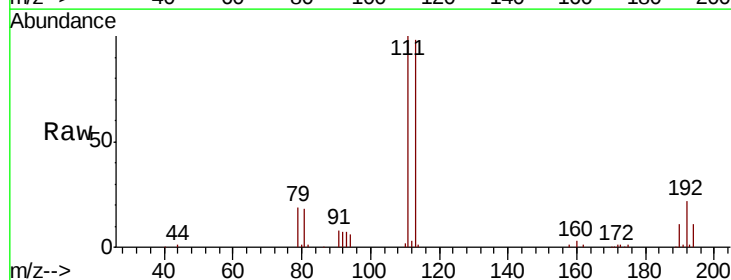
Instrument :
 MSVOA_D
 ClientSampleId :
 FDSB-12(26-28)

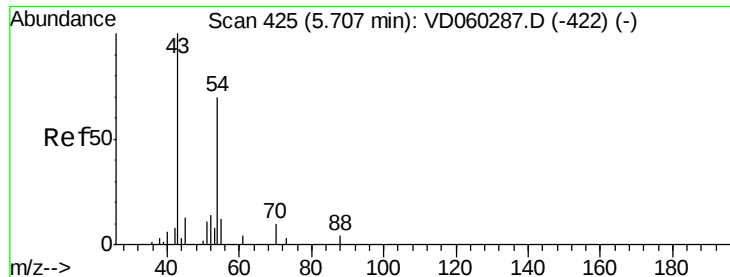
Tot Ion:114 Resp: 2038289
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 34.0
 88 18.7 0.0 35.4



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.30 min Scan# 485
 Delta R.T. -0.04 min
 Lab File: VD060385.D
 Acq: 14 Nov 2018 18:06

Tgt Ion:113 Resp: 584403
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.6 122.4
 192 22.5 16.5 24.7

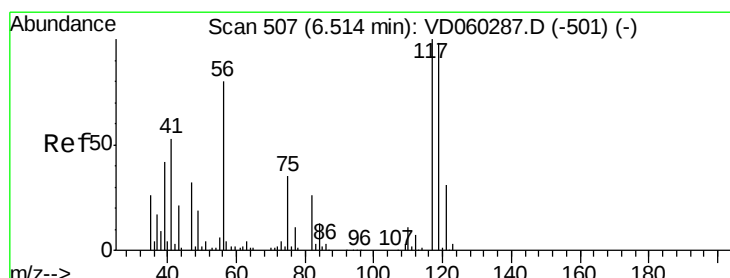
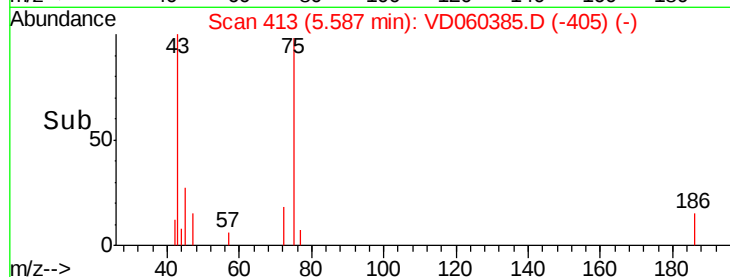
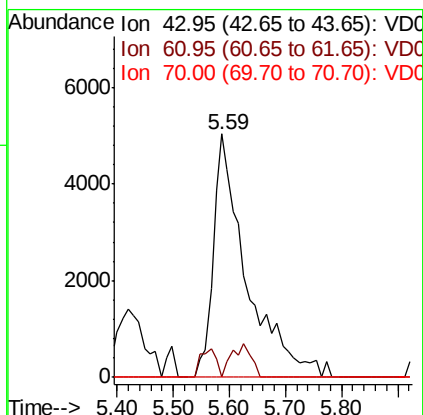
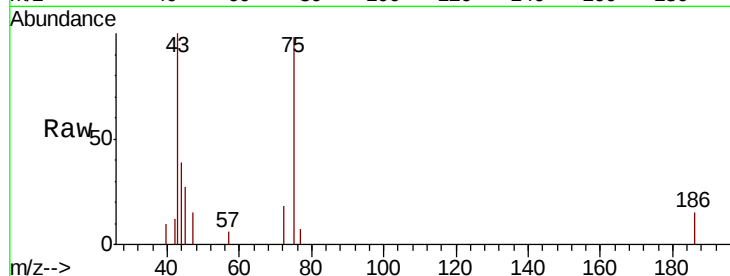




#37
Ethyl Acetate
Concen: 2.257 ug/l
RT: 5.59 min Scan# 413
Delta R.T. -0.12 min
Lab File: VD060385.D
Acq: 14 Nov 2018 18:06

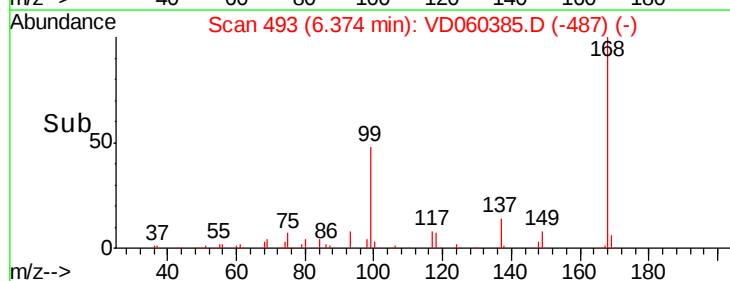
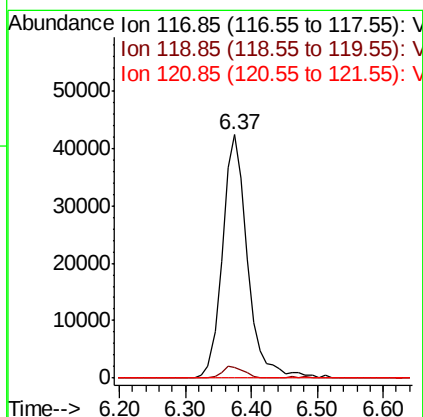
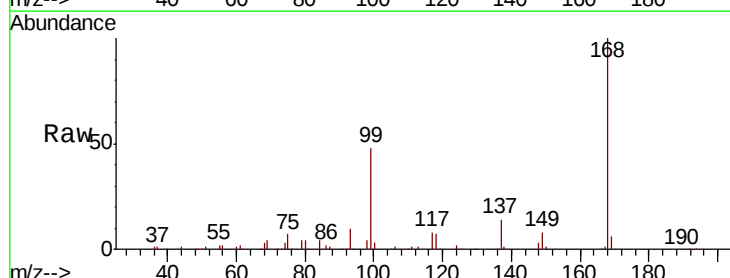
Instrument :
MSVOA_D
ClientSampleId :
FDSB-12(26-28)

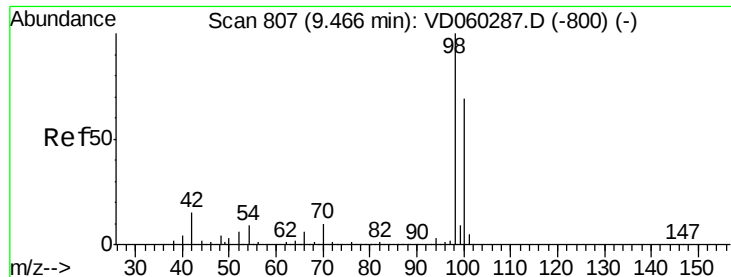
Tot Ion: 43 Resp: 20918
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 6.2 9.4#



#38
Carbon Tetrachloride
Concen: 6.027 ug/l
RT: 6.37 min Scan# 493
Delta R.T. -0.14 min
Lab File: VD060385.D
Acq: 14 Nov 2018 18:06

Tgt Ion: 117 Resp: 112578
Ion Ratio Lower Upper
117 100
119 4.6 76.6 115.0#
121 0.0 24.3 36.5#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.42 min Scan# 803

Delta R.T. -0.04 min

Lab File: VD060385.D

Acq: 14 Nov 2018 18:06

Instrument :

MSVOA_D

ClientSampleId :

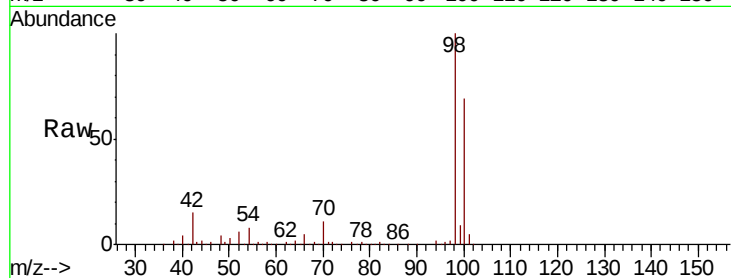
FDSB-12(26-28)

Tot Ion: 98 Resp: 1672470

Ion Ratio Lower Upper

98 100

100 68.8 55.2 82.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

800000

600000

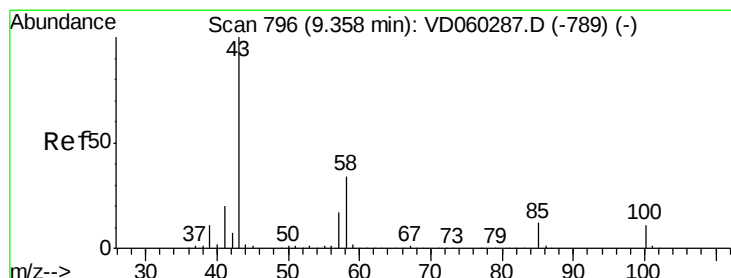
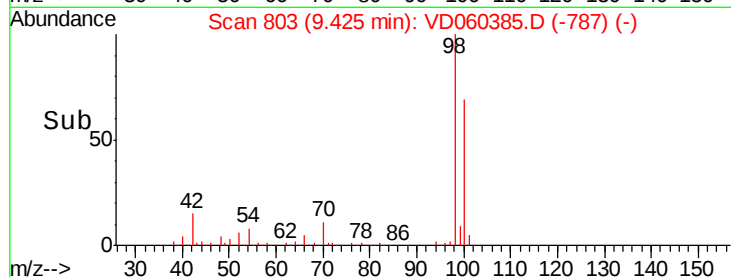
400000

200000

0

9.30 9.40 9.50 9.60

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.396 ug/l

RT: 9.31 min Scan# 791

Delta R.T. -0.05 min

Lab File: VD060385.D

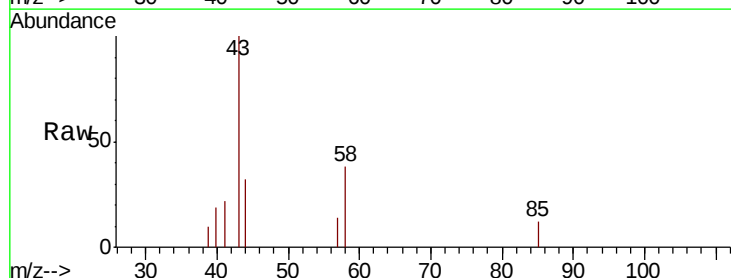
Acq: 14 Nov 2018 18:06

Tgt Ion: 43 Resp: 10575

Ion Ratio Lower Upper

43 100

58 37.6 26.1 39.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

6000

5000

4000

3000

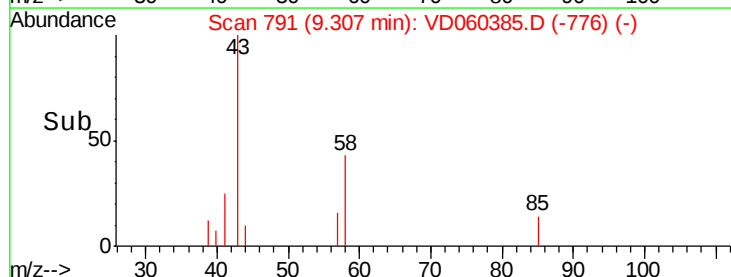
2000

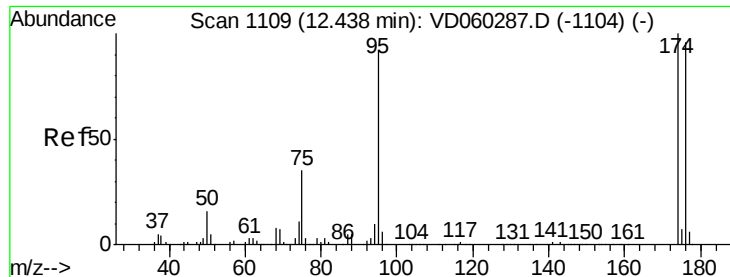
1000

0

9.20 9.25 9.30 9.35 9.40

Time-->

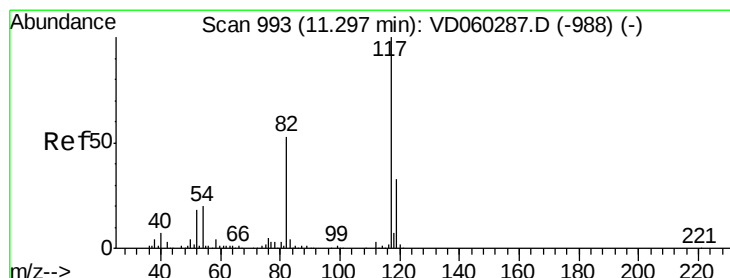
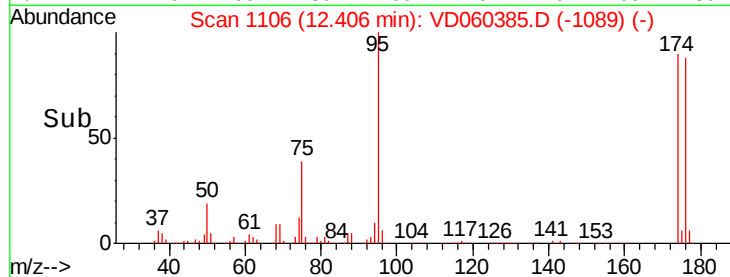
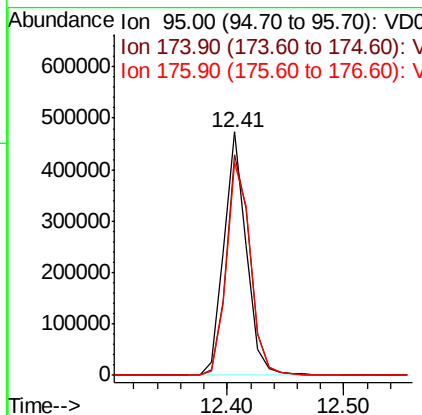
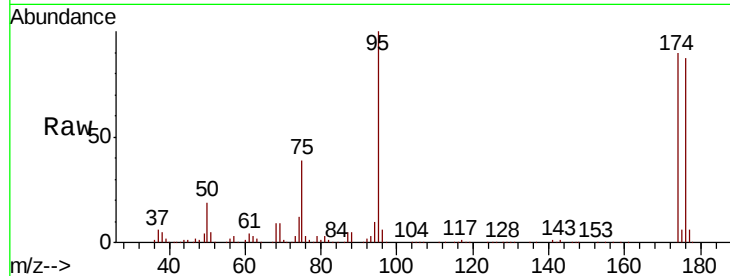




#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.41 min Scan# 1106
Delta R.T. -0.03 min
Lab File: VD060385.D
Acq: 14 Nov 2018 18:06

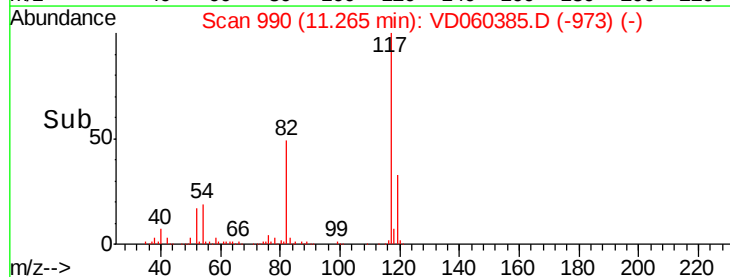
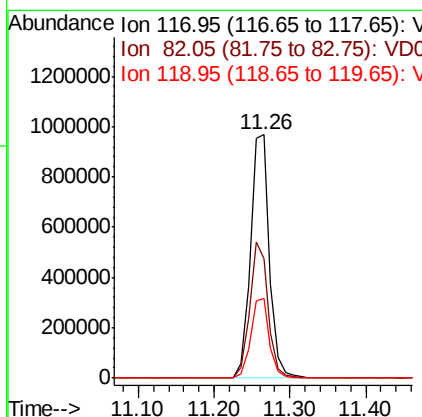
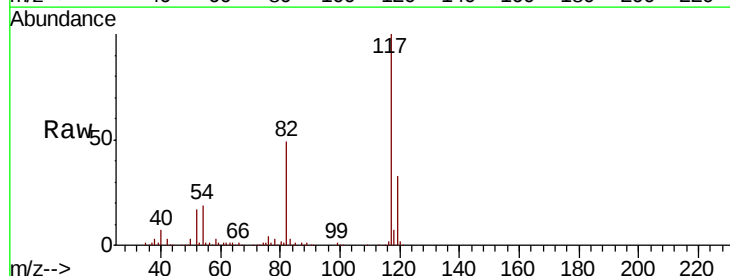
Instrument :
MSVOA_D
ClientSampleId :
FDSB-12(26-28)

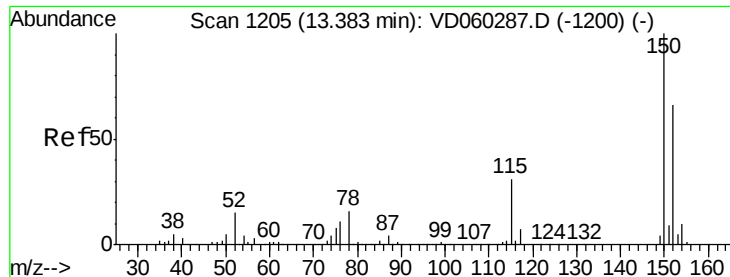
Tot Ion: 95 Resp: 632122
Ion Ratio Lower Upper
95 100
174 90.4 0.0 160.8
176 87.5 0.0 154.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.26 min Scan# 990
Delta R.T. -0.03 min
Lab File: VD060385.D
Acq: 14 Nov 2018 18:06

Tgt Ion: 117 Resp: 1687176
Ion Ratio Lower Upper
117 100
82 49.0 43.7 65.5
119 32.5 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 1202

Delta R.T. -0.03 min

Lab File: VD060385.D

Acq: 14 Nov 2018 18:06

Instrument :

MSVOA_D

ClientSampleId :

FDSB-12(26-28)

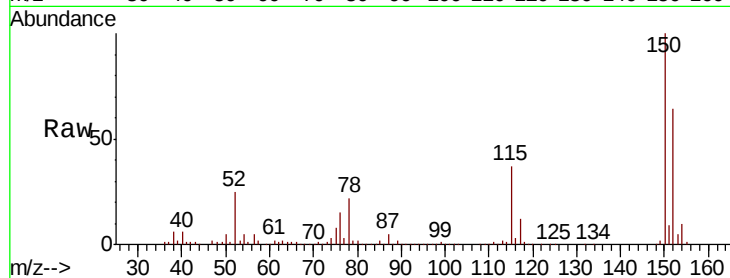
Tot Ion:152 Resp: 885906

Ion Ratio Lower Upper

152 100

115 58.6 24.1 72.3

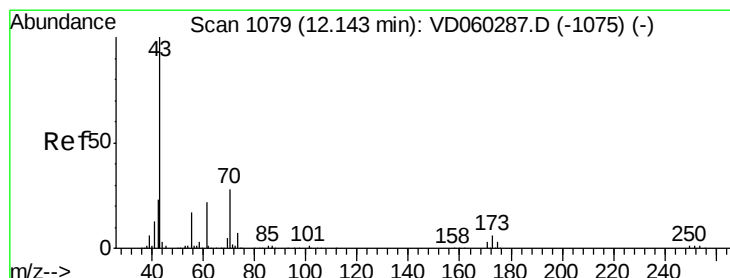
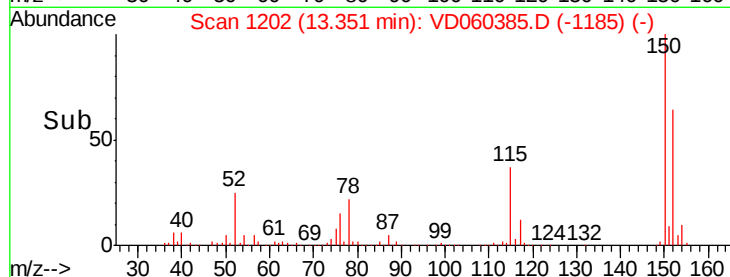
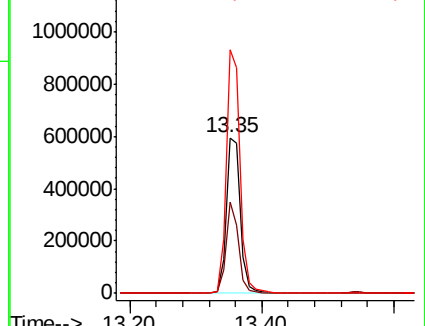
150 156.6 0.0 310.6



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: 1.197 ug/l

RT: 12.18 min Scan# 1083

Delta R.T. 0.04 min

Lab File: VD060385.D

Acq: 14 Nov 2018 18:06

Tgt Ion: 43 Resp: 19814

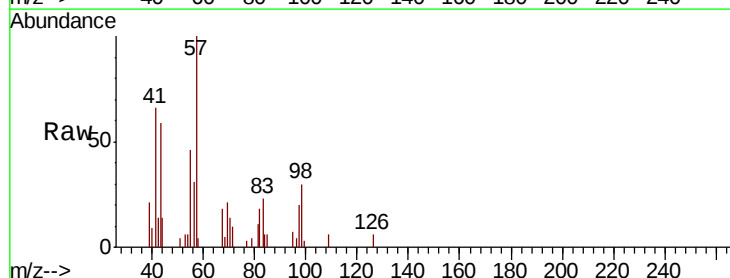
Ion Ratio Lower Upper

43 100

70 24.1 23.0 34.4

55 77.9 14.2 21.4#

61 0.0 17.8 26.8#

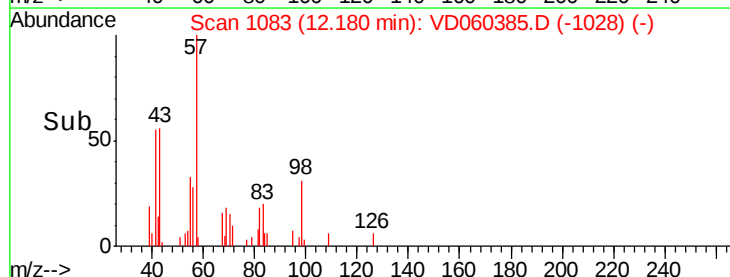
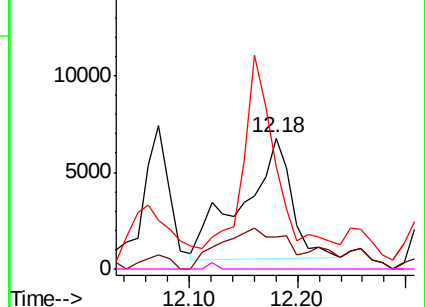


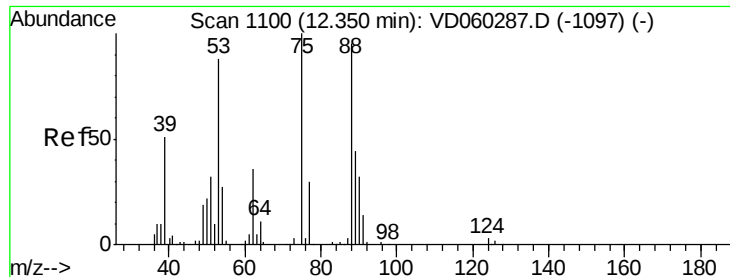
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 83.528 ug/l

RT: 12.41 min Scan# 1106

Delta R.T. 0.06 min

Lab File: VD060385.D

Acq: 14 Nov 2018 18:06

Instrument :

MSVOA_D

ClientSampleId :

FDSB-12(26-28)

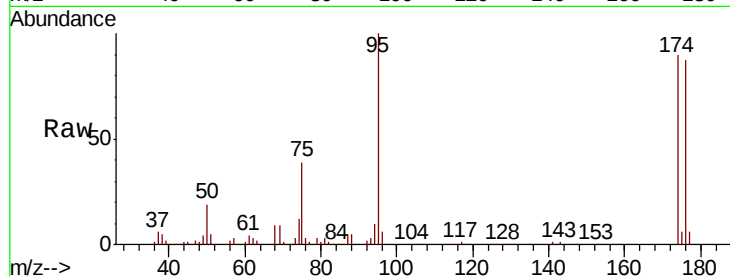
Tot Ion: 75 Resp: 252010

Ion Ratio Lower Upper

75 100

53 0.0 68.6 103.0#

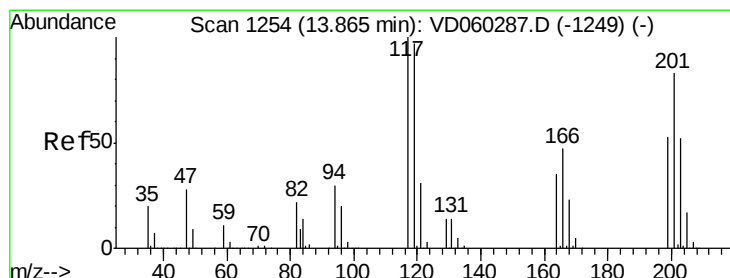
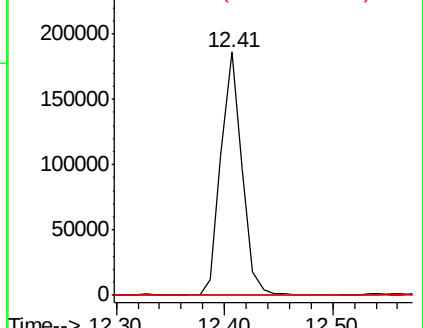
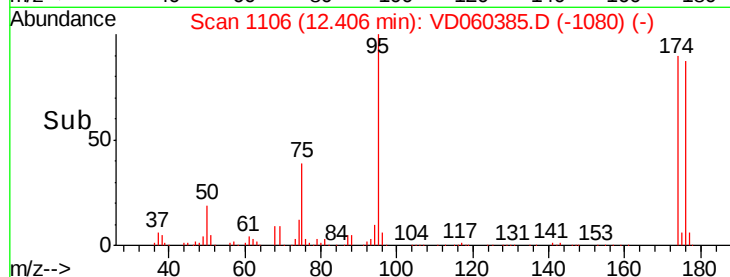
89 0.0 34.1 51.1#



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: 1.243 ug/l

RT: 13.88 min Scan# 1256

Delta R.T. 0.02 min

Lab File: VD060385.D

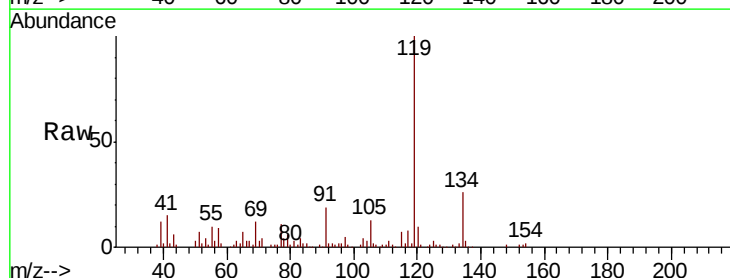
Acq: 14 Nov 2018 18:06

Tgt Ion: 117 Resp: 16217

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

