

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031519\
 Data File : VD061087.D
 Acq On : 15 Mar 2019 15:19
 Operator : VA/AP
 Sample : K1901-05RE
 Misc : 4.52g/5ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-4(0.5-1.5)RE

Quant Time: Mar 16 05:42:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.08	168	167607	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.25	114	236516	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	43701	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	3221	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.48	65	80089	57.41	ug/l	0.03
Spiked Amount	50.000		Recovery	=	114.82%	
35) Dibromofluoromethane	6.96	113	146251	83.32	ug/l	0.03
Spiked Amount	50.000		Recovery	=	166.64%	
50) Toluene-d8	10.43	98	111871	25.38	ug/l	0.03
Spiked Amount	50.000		Recovery	=	50.76%	
62) 4-Bromofluorobenzene	13.56	95	5807	3.40	ug/l	0.01
Spiked Amount	50.000		Recovery	=	6.80%	

Target Compounds

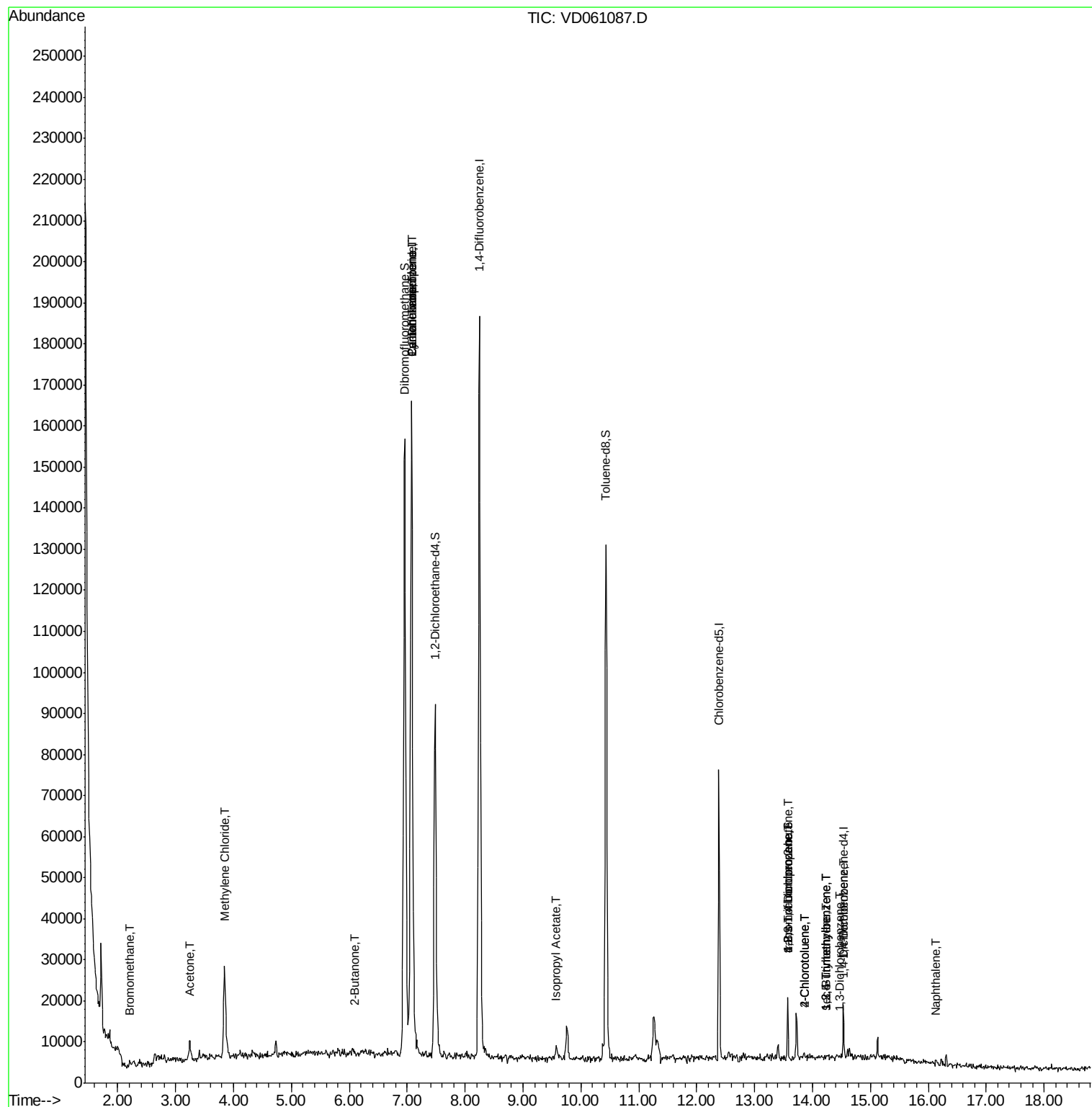
						Qvalue
5) Bromomethane	2.20	94	685	1.876	ug/l #	8
16) Acetone	3.25	43	9220	23.111	ug/l	96
20) Methylene Chloride	3.85	84	16770	5.024	ug/l	90
25) 2-Butanone	6.09	43	463	1.023	ug/l #	55
31) Cyclohexane	7.07	56	3037	1.230	ug/l #	1
36) 1,1-Dichloropropene	7.07	75	11534	5.657	ug/l #	39
38) Carbon Tetrachloride	7.08	117	15866	7.065	ug/l #	11
43) Isopropyl Acetate	9.58	43	2869	2.165	ug/l #	43
76) 1,2,3-Trichloropropane	13.56	75	2056	44.368	ug/l #	42
79) 2-Chlorotoluene	13.85	91	206	1.377	ug/l #	38
80) 1,3,5-Trimethylbenzene	14.24	105	409	2.321	ug/l #	31
81) trans-1,4-Dichloro-2-buten	13.56	75	2055	150.418	ug/l #	17
82) 4-Chlorotoluene	13.85	91	206	1.165	ug/l #	39
84) 1,2,4-Trimethylbenzene	14.24	105	409	2.321	ug/l #	31
85) sec-Butylbenzene	14.24	105	409	1.737	ug/l #	58
87) 1,3-Dichlorobenzene	14.47	146	315	2.977	ug/l #	25
88) 1,4-Dichlorobenzene	14.55	146	239	2.299	ug/l #	32
95) Naphthalene	16.13	128	908	14.602	ug/l #	70

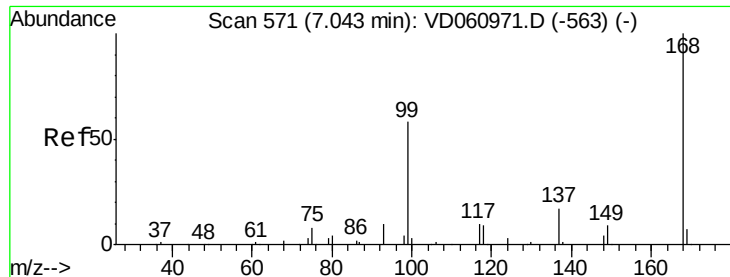
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.08 min Scan# 574

Delta R.T. 0.03 min

Lab File: VD061087.D

Acq: 15 Mar 2019 15:19

Instrument :

MSVOA_D

ClientSampleId :

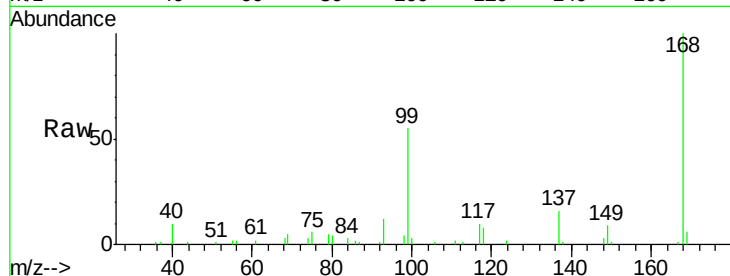
SB-4(0.5-1.5)RE

Tot Ion:168 Resp: 167607

Ion Ratio Lower Upper

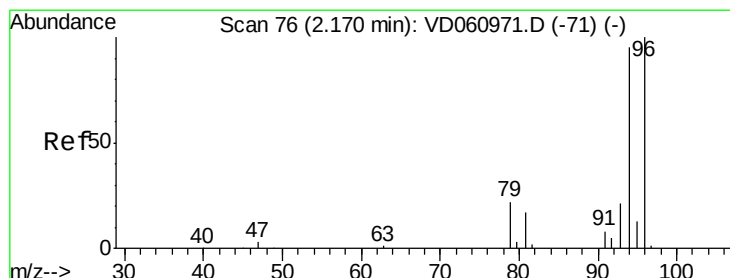
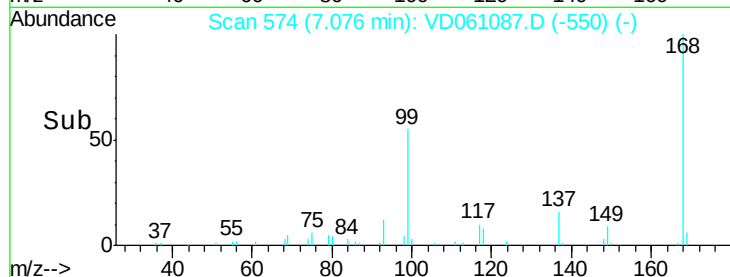
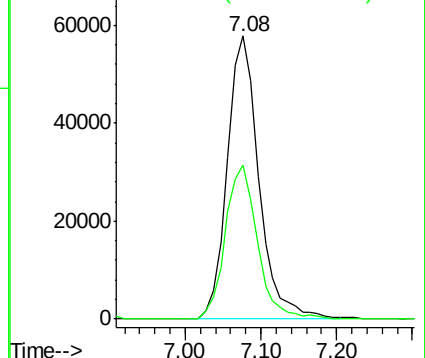
168 100

99 54.5 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.876 ug/l

RT: 2.20 min Scan# 79

Delta R.T. 0.03 min

Lab File: VD061087.D

Acq: 15 Mar 2019 15:19

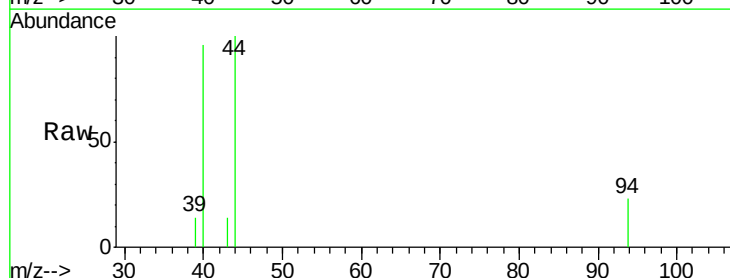
Tgt Ion: 94 Resp: 685

Ion Ratio Lower Upper

94 100

96 0.0 84.0 126.0#

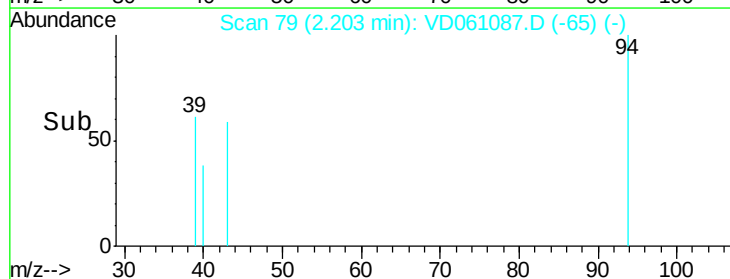
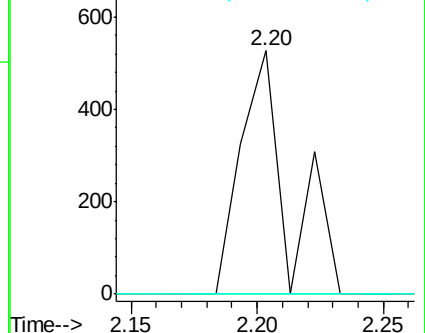
93 0.0 17.3 25.9#

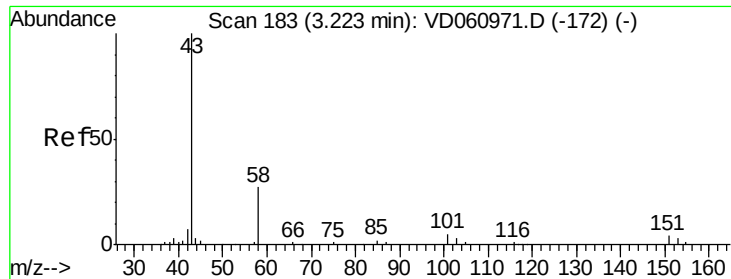


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#16

Acetone

Concen: 23.111 ug/l

RT: 3.25 min Scan# 185

Delta R.T. 0.02 min

Lab File: VD061087.D

Acq: 15 Mar 2019 15:19

Instrument :

MSVOA_D

ClientSampleId :

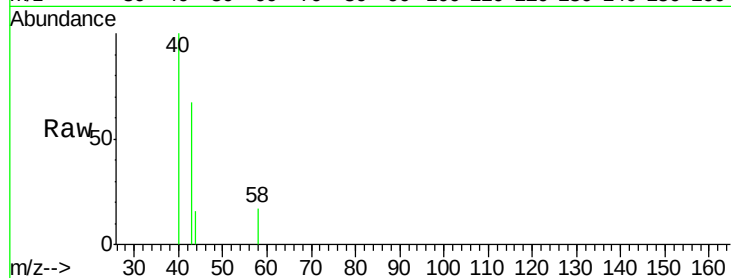
SB-4(0.5-1.5)RE

Tot Ion: 43 Resp: 9220

Ion Ratio Lower Upper

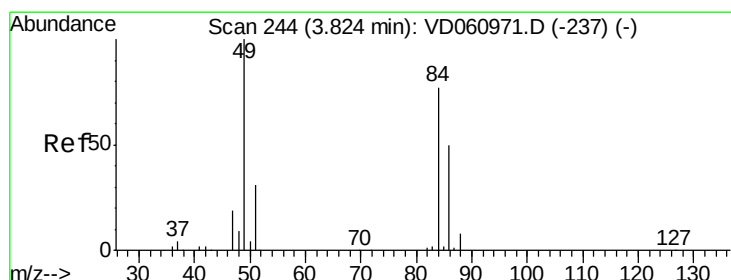
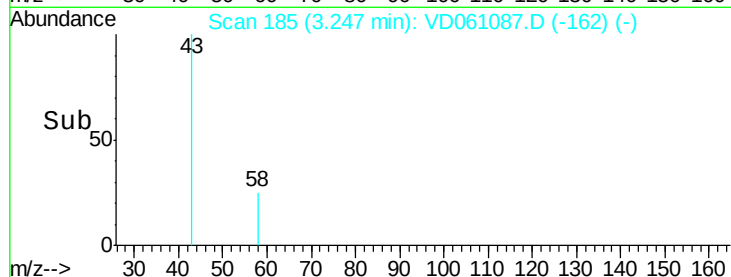
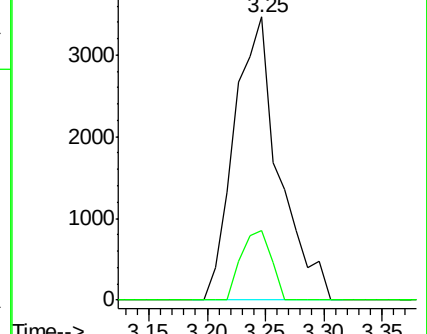
43 100

58 24.7 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 5.024 ug/l

RT: 3.85 min Scan# 246

Delta R.T. 0.02 min

Lab File: VD061087.D

Acq: 15 Mar 2019 15:19

Tgt Ion: 84 Resp: 16770

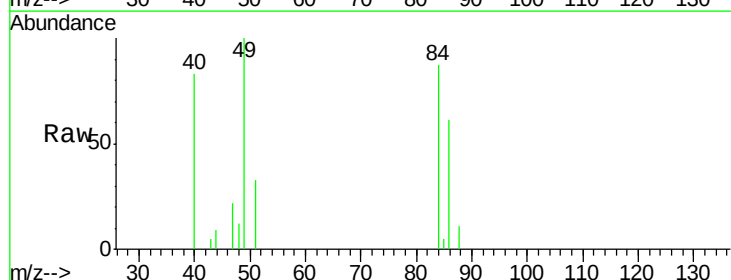
Ion Ratio Lower Upper

84 100

49 114.3 104.2 156.2

51 37.4 32.3 48.5

86 69.6 52.3 78.5

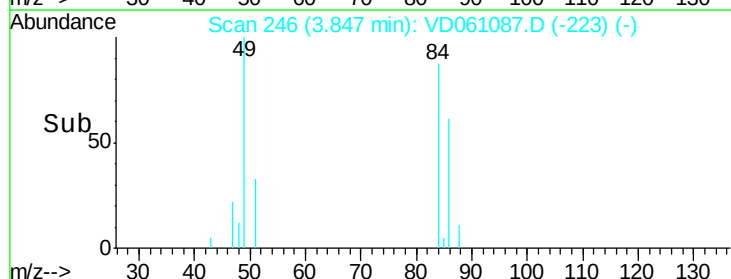
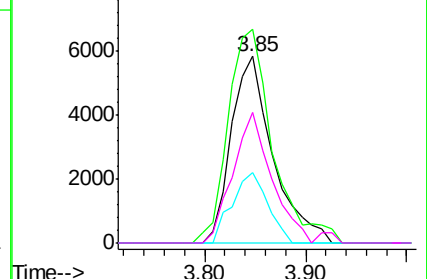


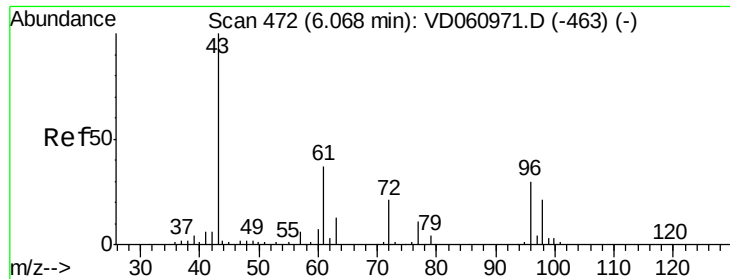
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 1.023 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.02 min

Lab File: VD061087.D

Acq: 15 Mar 2019 15:19

Instrument :

MSVOA_D

ClientSampleId :

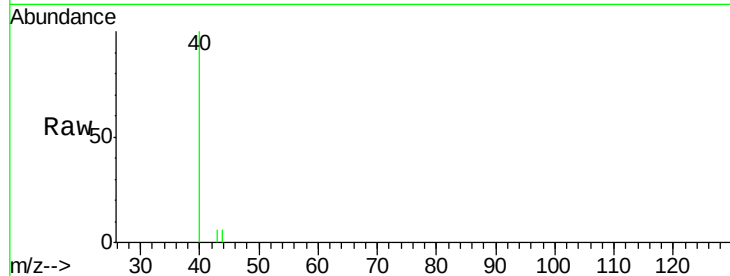
SB-4(0.5-1.5)RE

Tot Ion: 43 Resp: 463

Ion Ratio Lower Upper

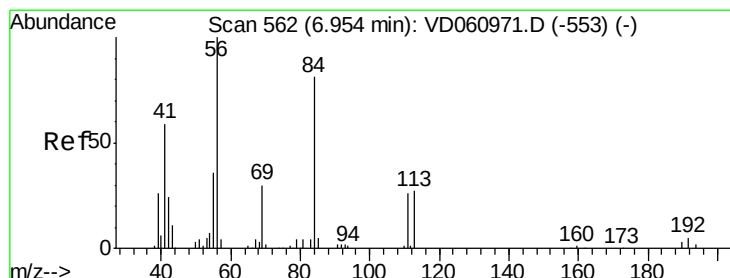
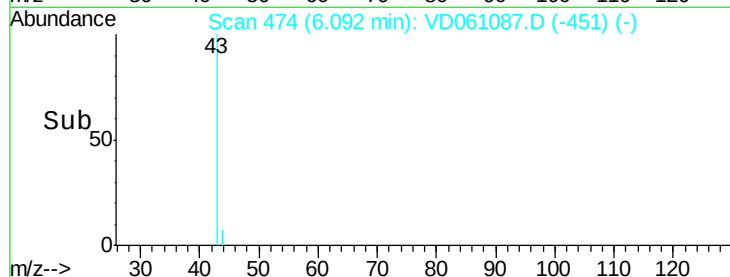
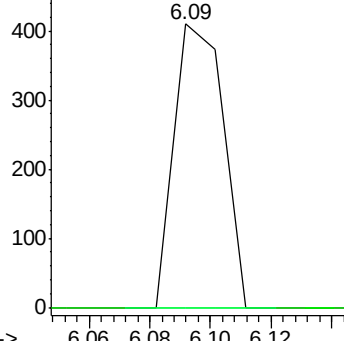
43 100

72 0.0 16.7 25.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 1.230 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.11 min

Lab File: VD061087.D

Acq: 15 Mar 2019 15:19

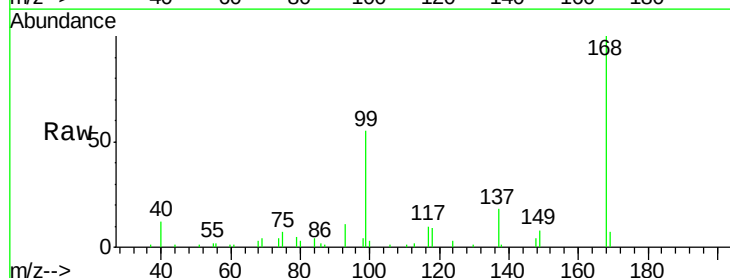
Tgt Ion: 56 Resp: 3037

Ion Ratio Lower Upper

56 100

69 197.0 24.0 36.0#

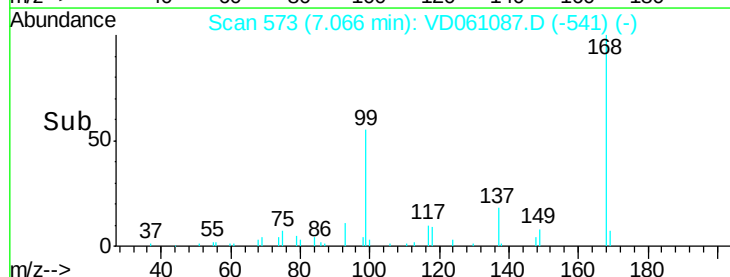
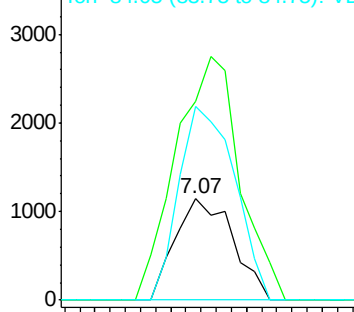
84 191.7 65.8 98.6#

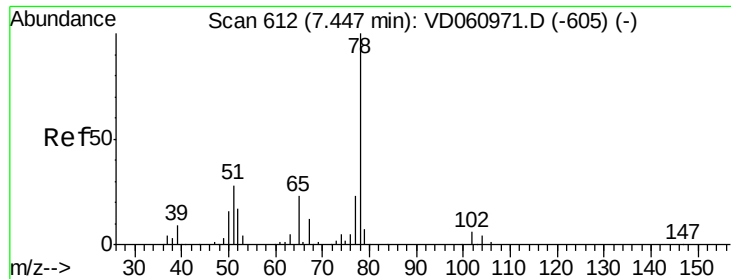


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

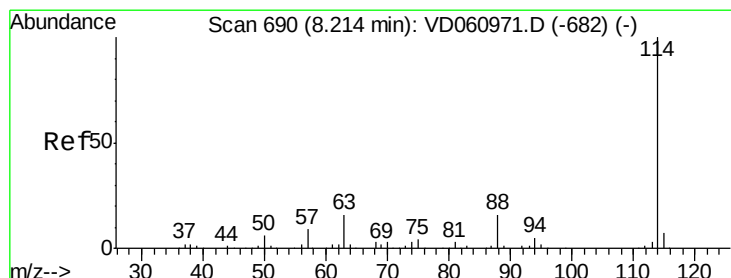
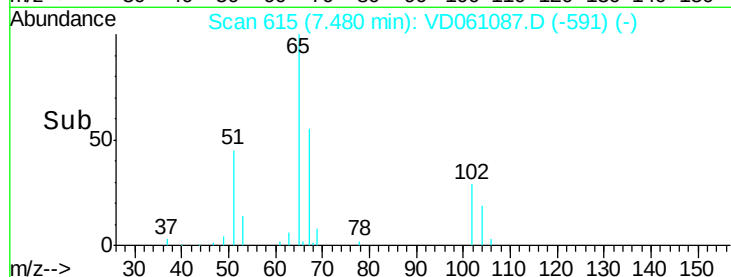
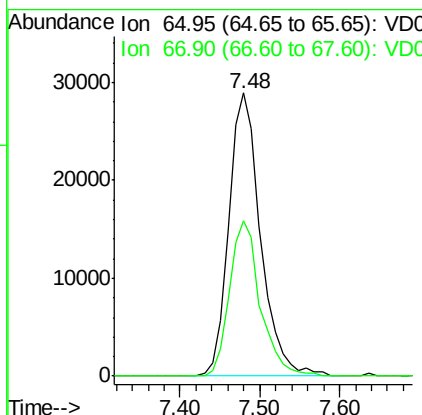
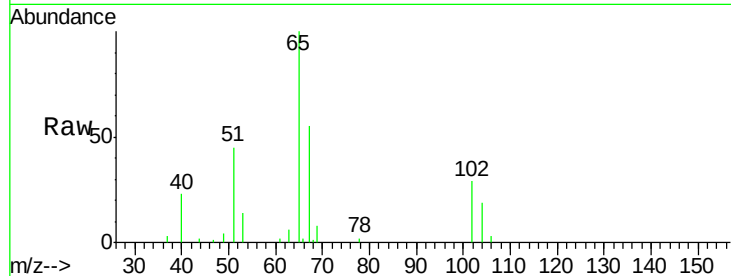




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 7.48 min Scan# 615
 Delta R.T. 0.03 min
 Lab File: VD061087.D
 Acq: 15 Mar 2019 15:19

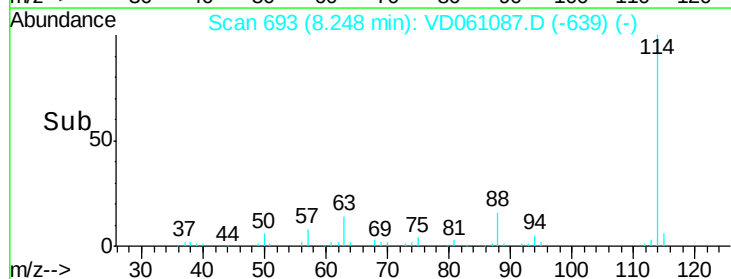
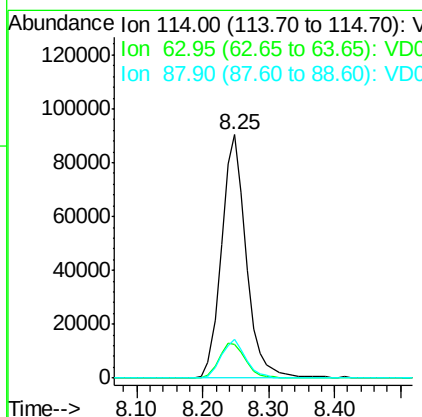
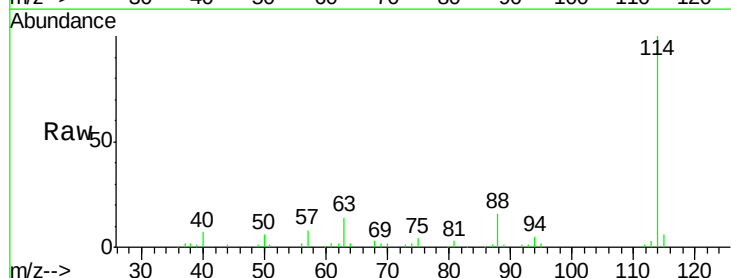
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-4(0.5-1.5)RE

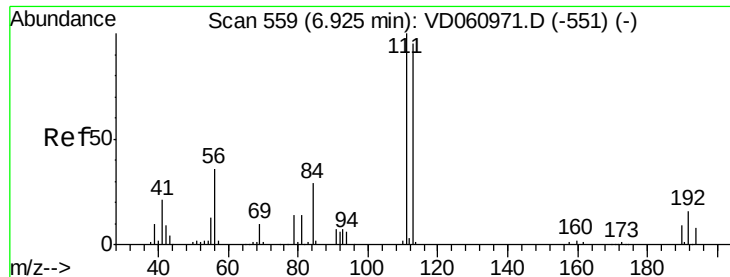
Tot Ion: 65 Resp: 80089
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.25 min Scan# 693
 Delta R.T. 0.03 min
 Lab File: VD061087.D
 Acq: 15 Mar 2019 15:19

Tgt Ion: 114 Resp: 236516
 Ion Ratio Lower Upper
 114 100
 63 13.9 0.0 31.4
 88 16.1 0.0 33.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.96 min Scan# 562

Delta R.T. 0.03 min

Lab File: VD061087.D

Acq: 15 Mar 2019 15:19

Instrument :

MSVOA_D

ClientSampleId :

SB-4(0.5-1.5)RE

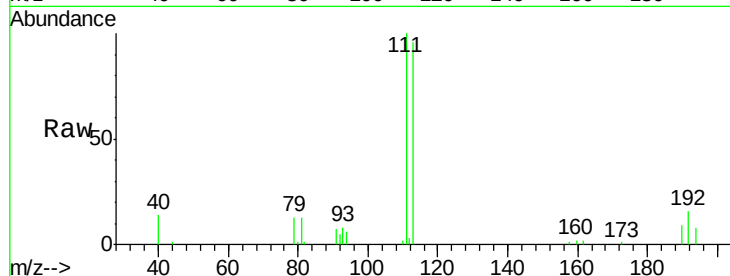
Tot Ion:113 Resp: 146251

Ion Ratio Lower Upper

113 100

111 104.3 84.2 126.4

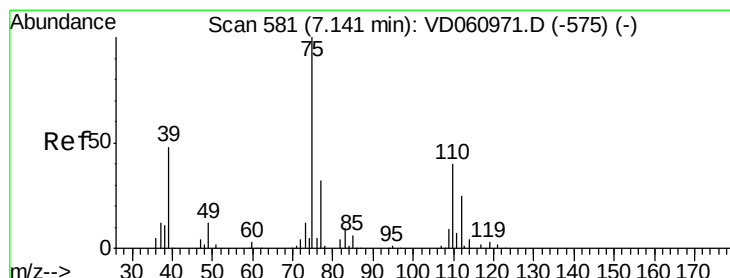
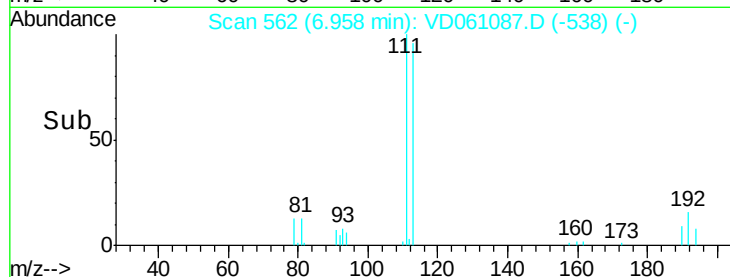
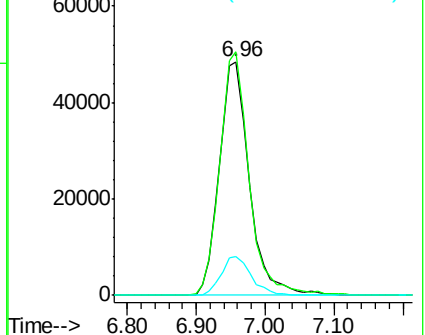
192 16.8 13.1 19.7



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: 5.657 ug/l

RT: 7.07 min Scan# 573

Delta R.T. -0.07 min

Lab File: VD061087.D

Acq: 15 Mar 2019 15:19

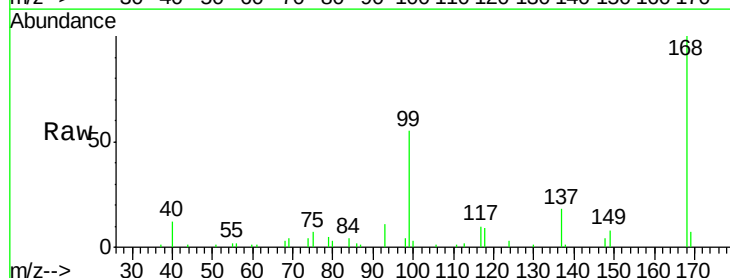
Tgt Ion: 75 Resp: 11534

Ion Ratio Lower Upper

75 100

110 0.0 19.7 59.1#

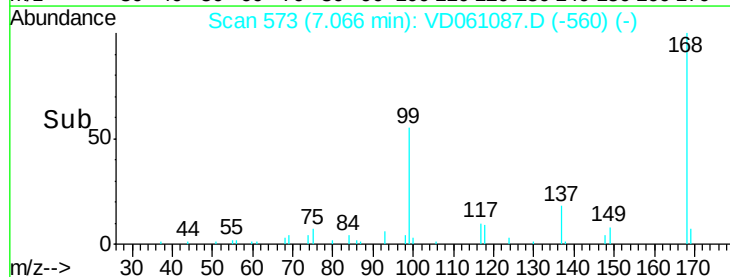
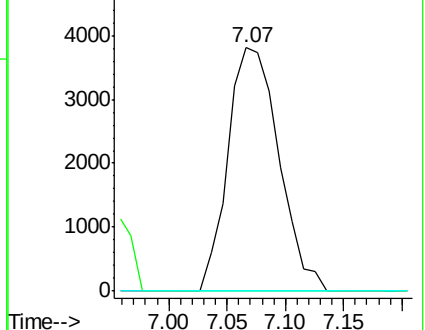
77 0.0 24.7 37.1#

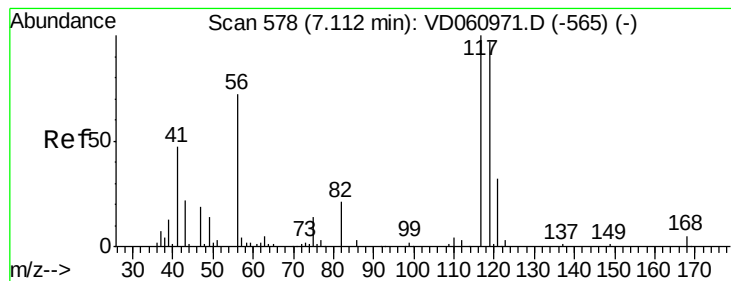


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 7.065 ug/l

RT: 7.08 min Scan# 574

Delta R.T. -0.04 min

Lab File: VD061087.D

Acq: 15 Mar 2019 15:19

Instrument :

MSVOA_D

ClientSampleId :

SB-4(0.5-1.5)RE

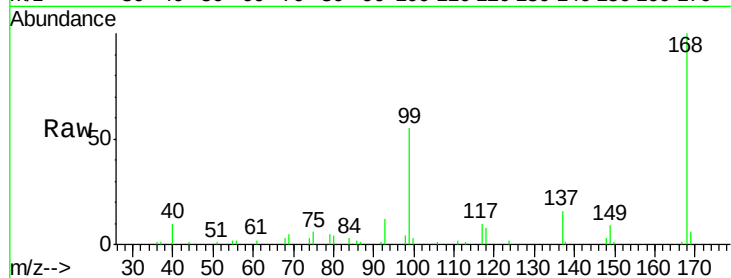
Tot Ion:117 Resp: 15866

Ion Ratio Lower Upper

117 100

119 0.0 77.8 116.8#

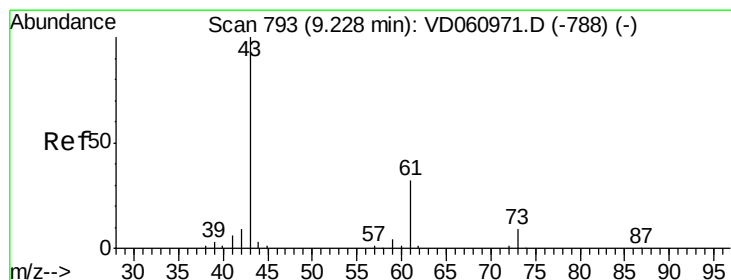
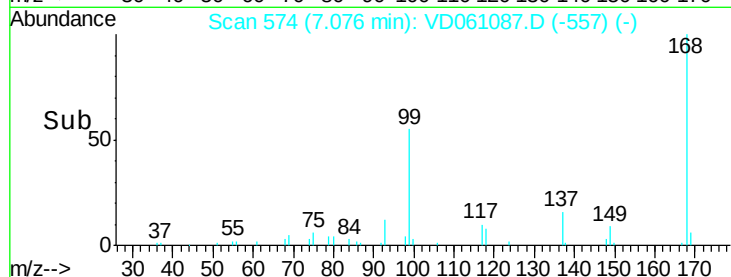
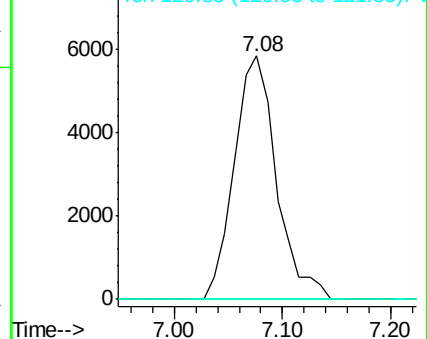
121 0.0 25.3 37.9#



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



#43

Isopropyl Acetate

Concen: 2.165 ug/l

RT: 9.58 min Scan# 828

Delta R.T. 0.35 min

Lab File: VD061087.D

Acq: 15 Mar 2019 15:19

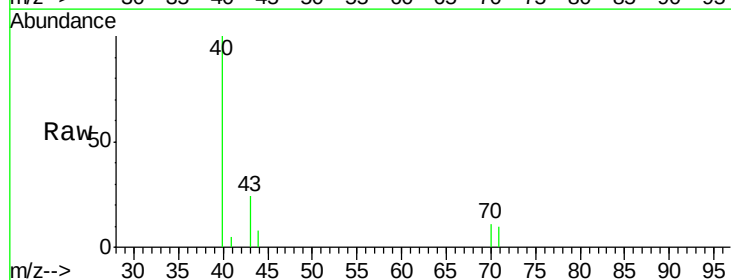
Tgt Ion: 43 Resp: 2869

Ion Ratio Lower Upper

43 100

61 0.0 25.6 38.4#

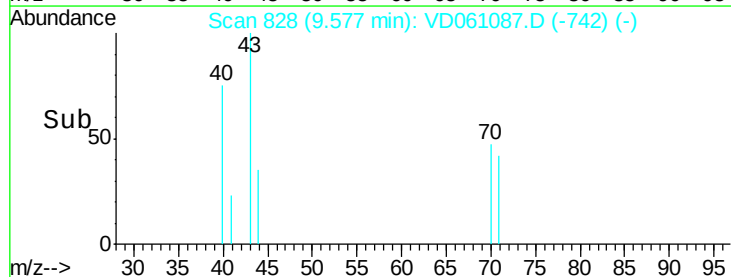
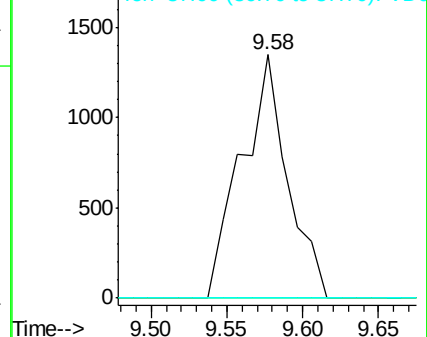
87 0.0 0.2 0.4#

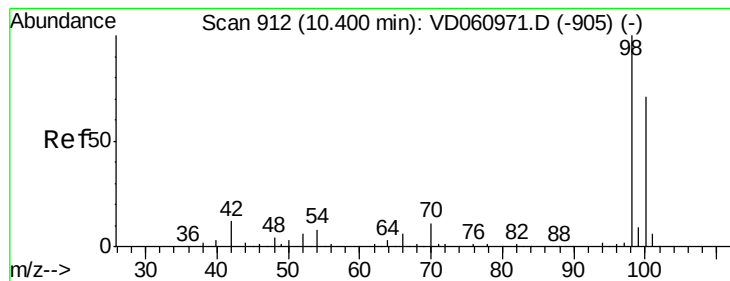


Abundance Ion 42.95 (42.65 to 43.65): V

Ion 60.95 (60.65 to 61.65): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.43 min Scan# 915

Delta R.T. 0.03 min

Lab File: VD061087.D

Acq: 15 Mar 2019 15:19

Instrument :

MSVOA_D

ClientSampleId :

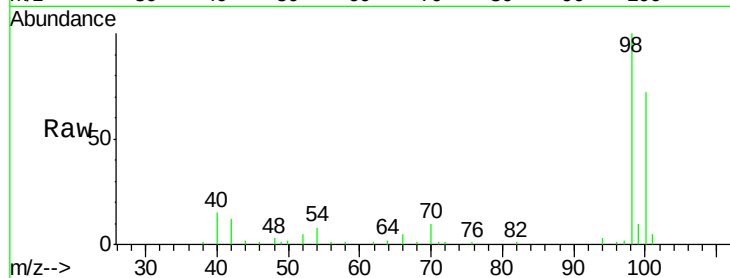
SB-4(0.5-1.5)RE

Tot Ion: 98 Resp: 111871

Ion Ratio Lower Upper

98 100

100 71.8 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): VD060971.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD060971.D (-905) (-)

10.43

50000

40000

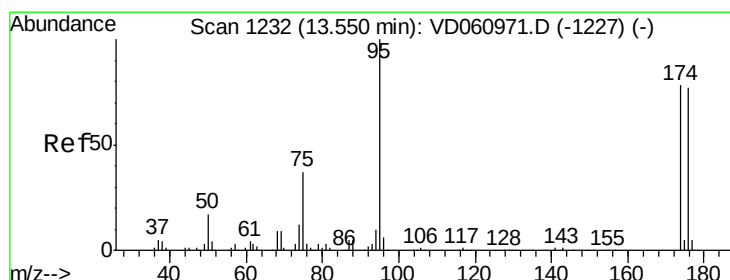
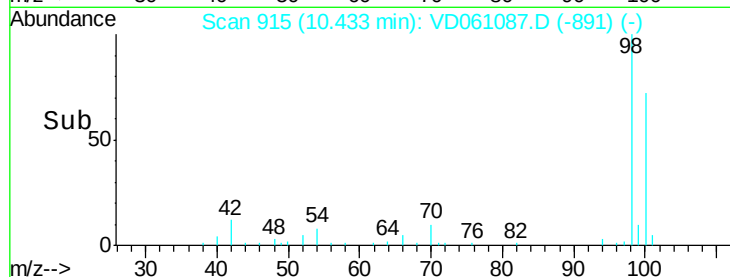
30000

20000

10000

0

Time--> 10.30 10.40 10.50



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD061087.D

Acq: 15 Mar 2019 15:19

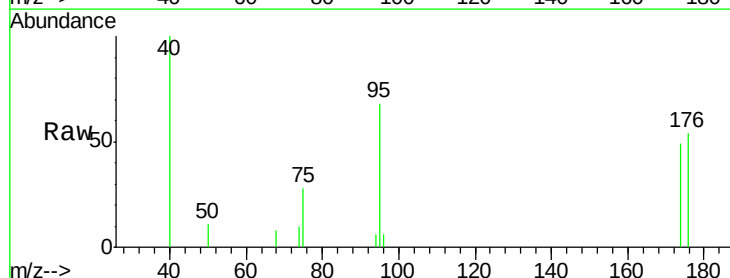
Tgt Ion: 95 Resp: 5807

Ion Ratio Lower Upper

95 100

174 72.2 0.0 155.6

176 79.6 0.0 153.8



Abundance Ion 95.00 (94.70 to 95.70): VD060971.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD060971.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD060971.D (-1227) (-)

5000

4000

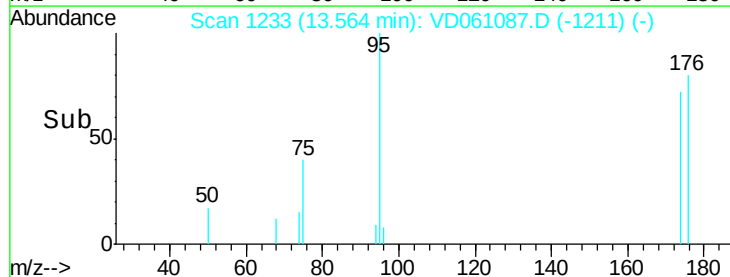
3000

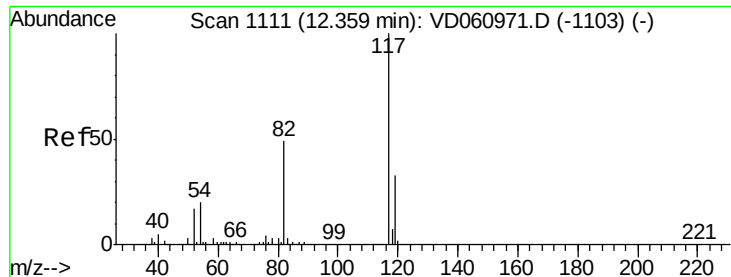
2000

1000

0

Time--> 13.50 13.55 13.60

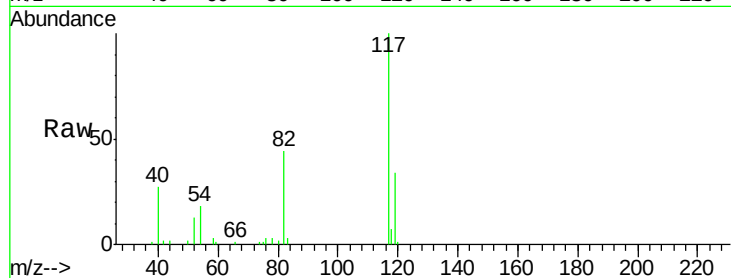




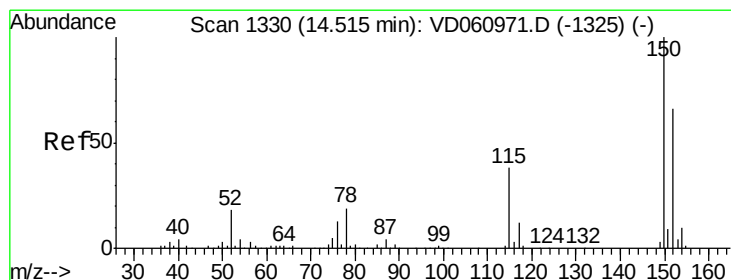
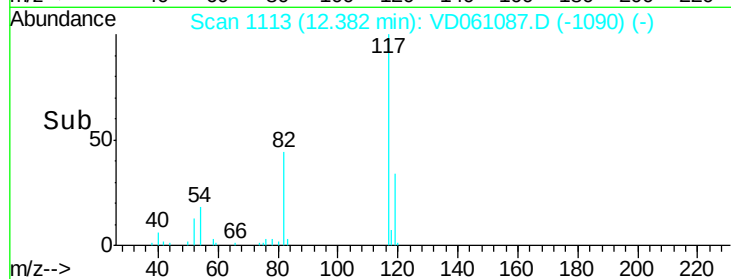
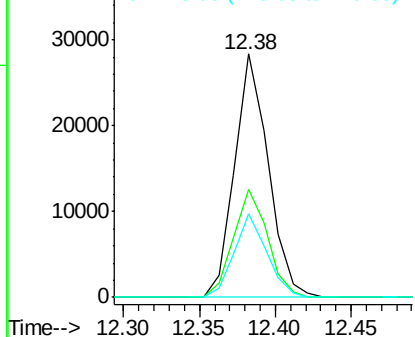
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD061087.D
Acq: 15 Mar 2019 15:19

Instrument :
MSVOA_D
ClientSampleId :
SB-4(0.5-1.5)RE

Tot Ion:117 Resp: 43701
Ion Ratio Lower Upper
117 100
82 44.2 38.9 58.3
119 34.2 26.6 39.8

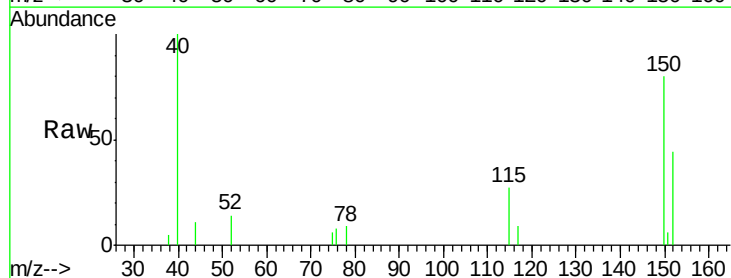


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

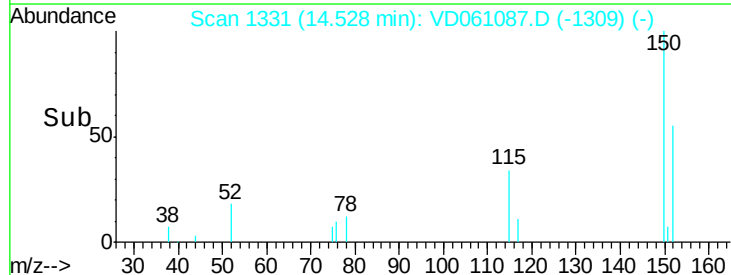
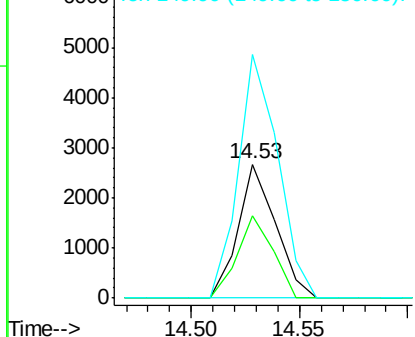


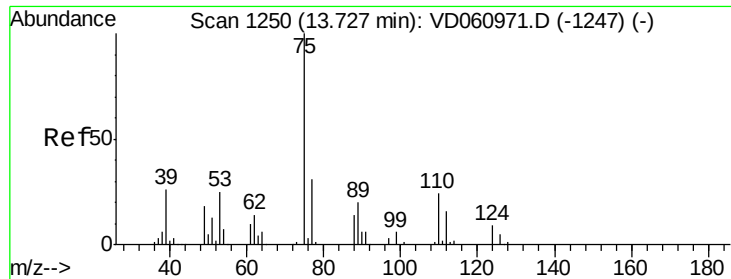
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD061087.D
Acq: 15 Mar 2019 15:19

Tgt Ion:152 Resp: 3221
Ion Ratio Lower Upper
152 100
115 61.7 28.6 85.9
150 181.7 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





#76

1,2,3-Trichloropropane

Concen: 44.368 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.16 min

Lab File: VD061087.D

Acq: 15 Mar 2019 15:19

Instrument :

MSVOA_D

ClientSampleId :

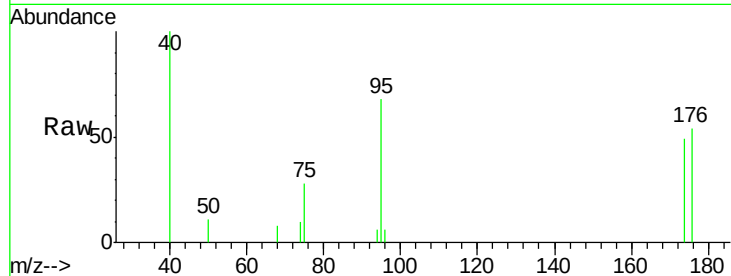
SB-4(0.5-1.5)RE

Tot Ion: 75 Resp: 2056

Ion Ratio Lower Upper

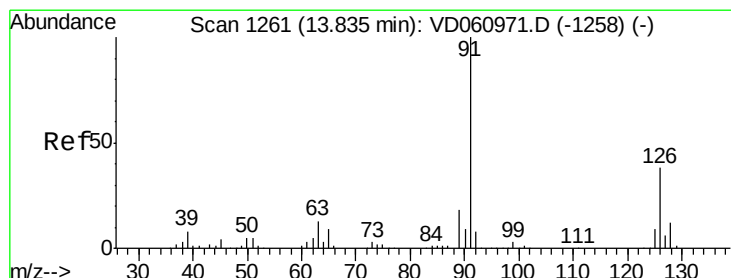
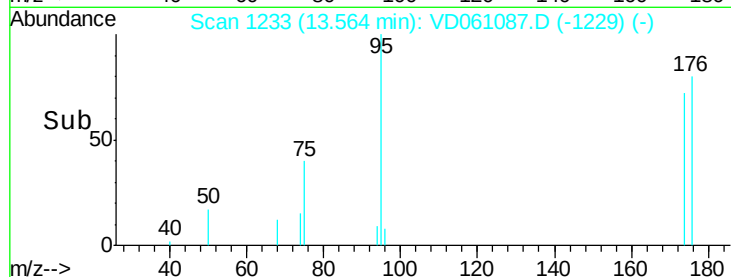
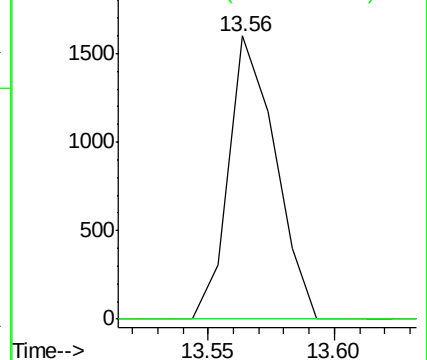
75 100

77 0.0 16.6 49.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#79

2-Chlorotoluene

Concen: 1.377 ug/l

RT: 13.85 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VD061087.D

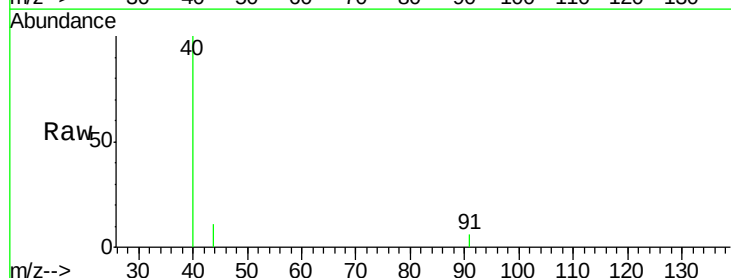
Acq: 15 Mar 2019 15:19

Tgt Ion: 91 Resp: 206

Ion Ratio Lower Upper

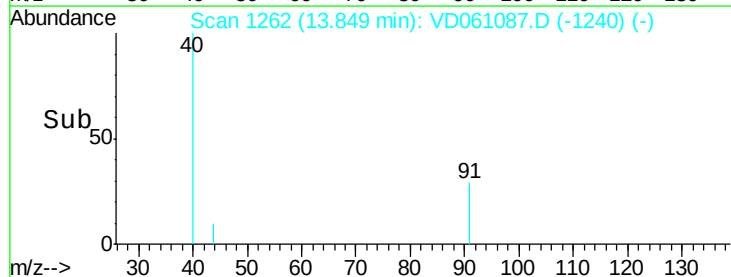
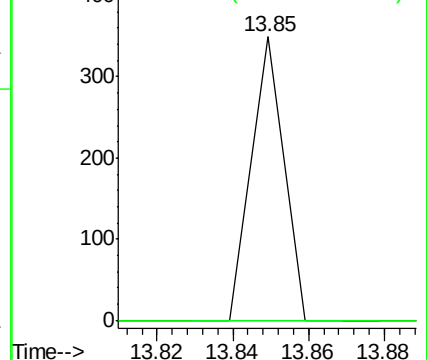
91 100

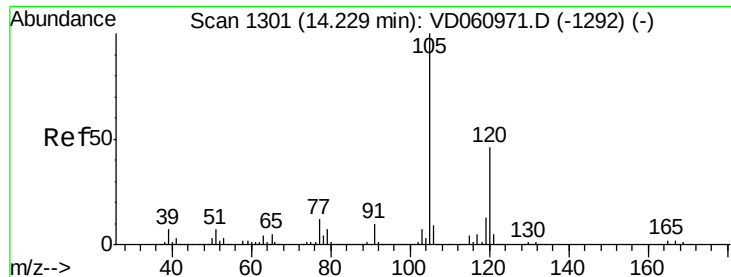
126 0.0 18.6 55.6#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

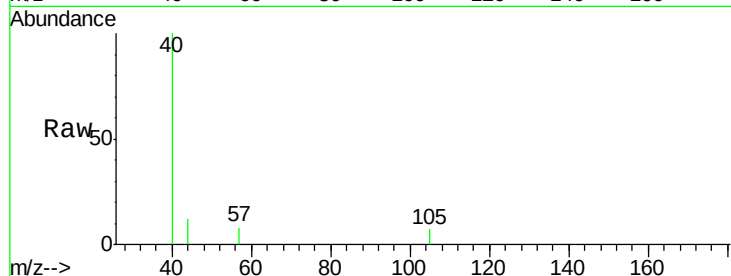




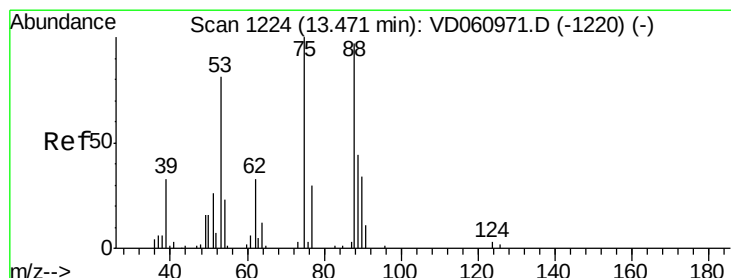
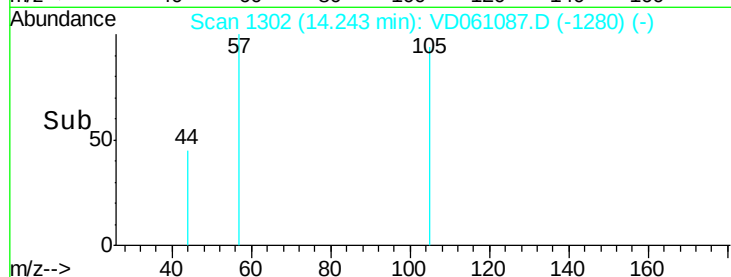
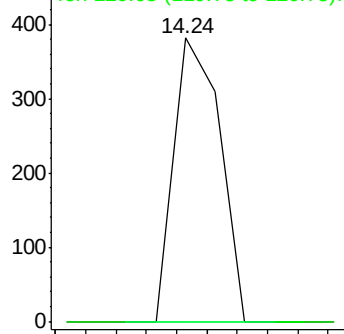
#80
 1,3,5-Trimethylbenzene
 Concen: 2.321 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.01 min
 Lab File: VD061087.D
 Acq: 15 Mar 2019 15:19

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-4(0.5-1.5)RE

Tot Ion:105 Resp: 409
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.9 68.5#

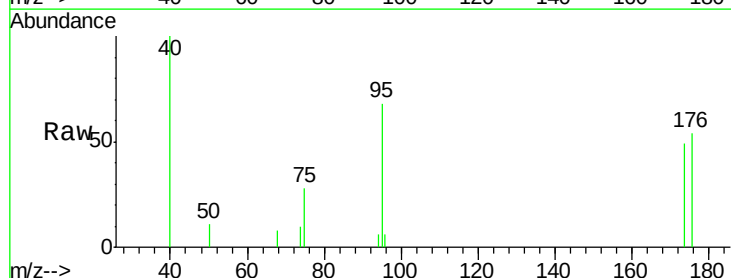


Abundance Ion 105.05 (104.75 to 105.75): V
 Ion 120.05 (119.75 to 120.75): V

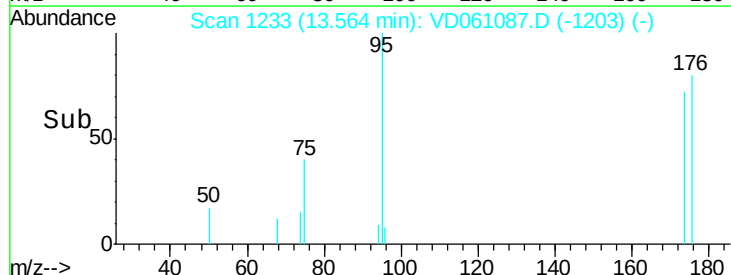
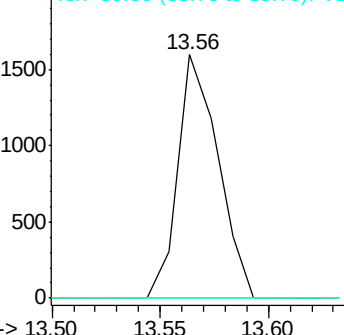


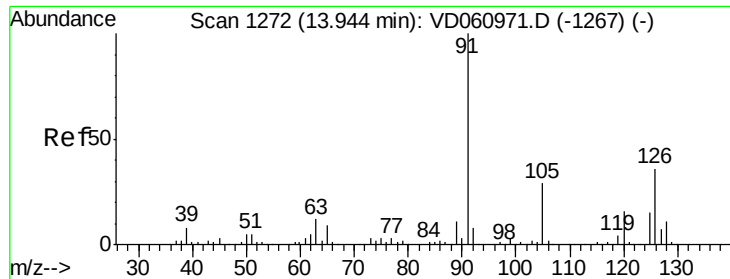
#81
 trans-1,4-Dichloro-2-butene
 Concen: 150.418 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.09 min
 Lab File: VD061087.D
 Acq: 15 Mar 2019 15:19

Tgt Ion: 75 Resp: 2055
 Ion Ratio Lower Upper
 75 100
 53 0.0 64.4 96.6#
 89 0.0 34.8 52.2#



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

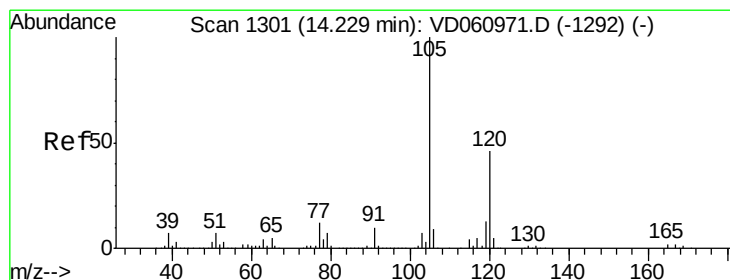
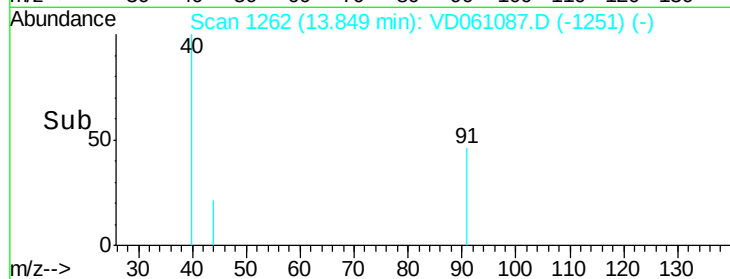
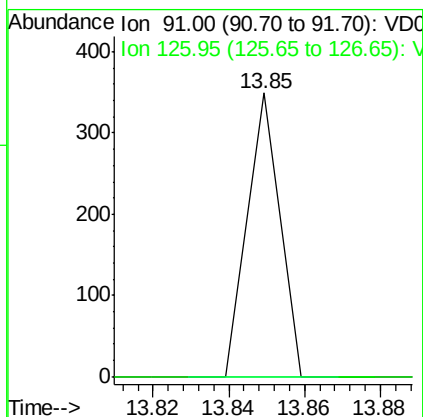
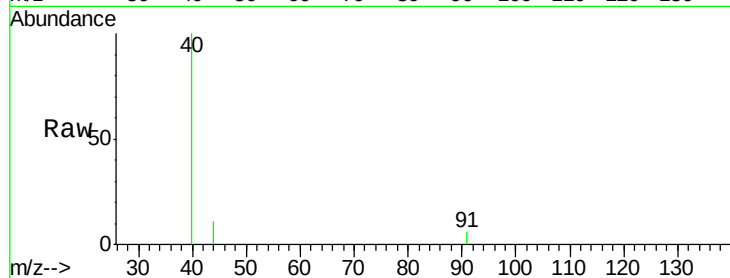




#82
 4-Chlorotoluene
 Concen: 1.165 ug/l
 RT: 13.85 min Scan# 1262
 Delta R.T. -0.09 min
 Lab File: VD061087.D
 Acq: 15 Mar 2019 15:19

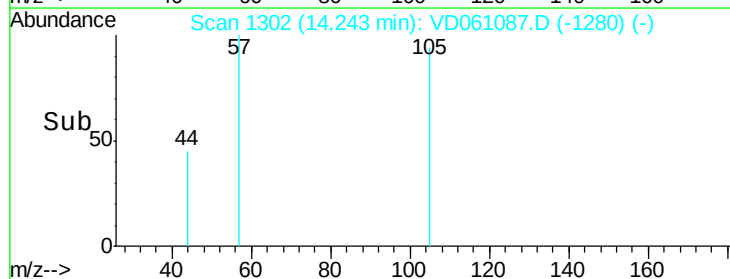
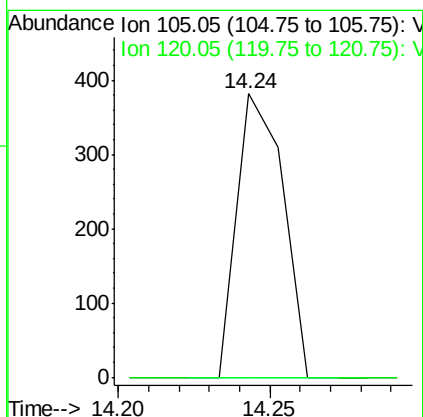
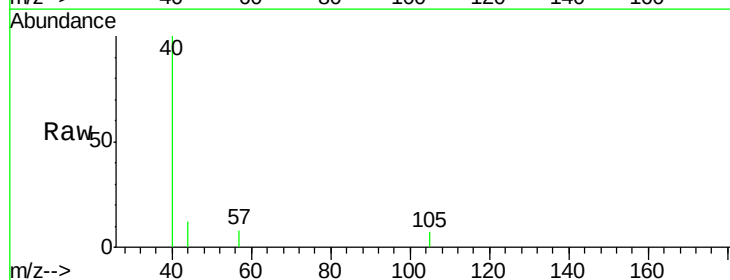
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-4(0.5-1.5)RE

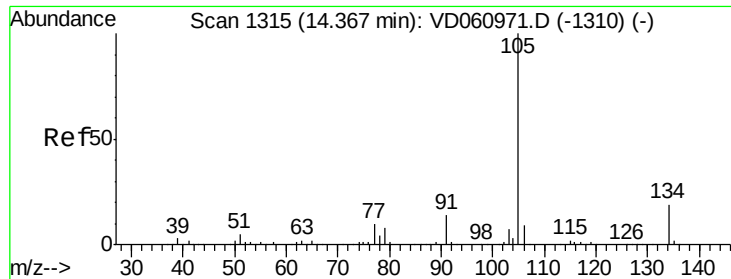
Tot Ion: 91 Resp: 206
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.0 54.0#



#84
 1,2,4-Trimethylbenzene
 Concen: 2.321 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.01 min
 Lab File: VD061087.D
 Acq: 15 Mar 2019 15:19

Tgt Ion: 105 Resp: 409
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.9 68.5#





#85

sec-Butylbenzene

Concen: 1.737 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. -0.12 min

Lab File: VD061087.D

Acq: 15 Mar 2019 15:19

Instrument :

MSVOA_D

ClientSampleId :

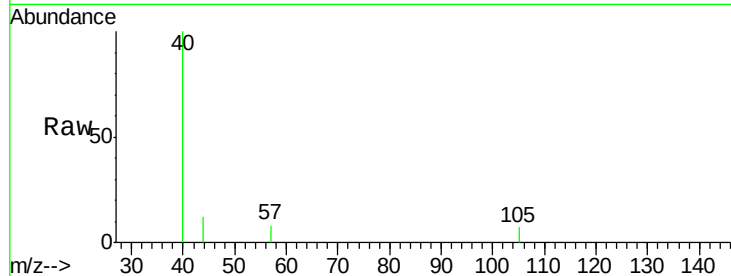
SB-4(0.5-1.5)RE

Tot Ion:105 Resp: 409

Ion Ratio Lower Upper

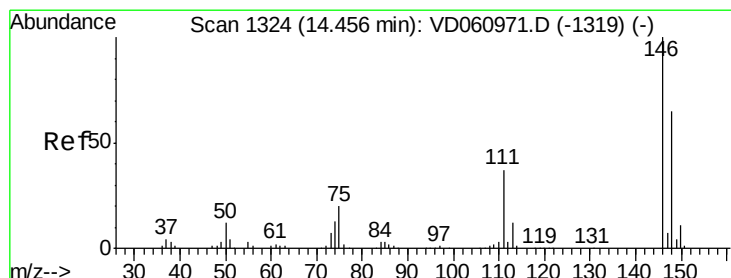
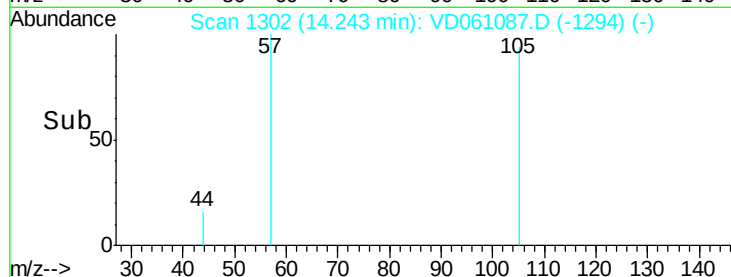
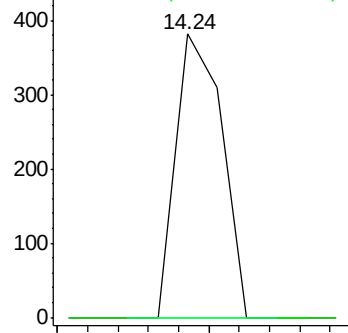
105 100

134 0.0 9.4 28.2#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#87

1,3-Dichlorobenzene

Concen: 2.977 ug/l

RT: 14.47 min Scan# 1325

Delta R.T. 0.01 min

Lab File: VD061087.D

Acq: 15 Mar 2019 15:19

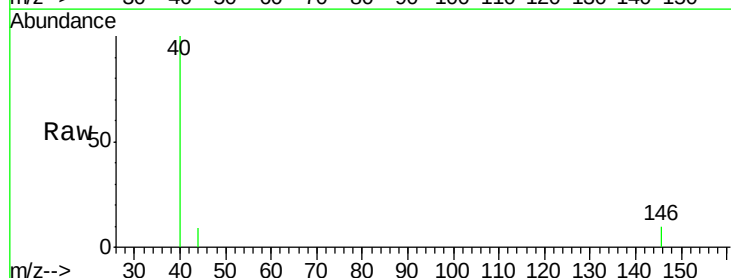
Tgt Ion:146 Resp: 315

Ion Ratio Lower Upper

146 100

111 0.0 18.4 55.4#

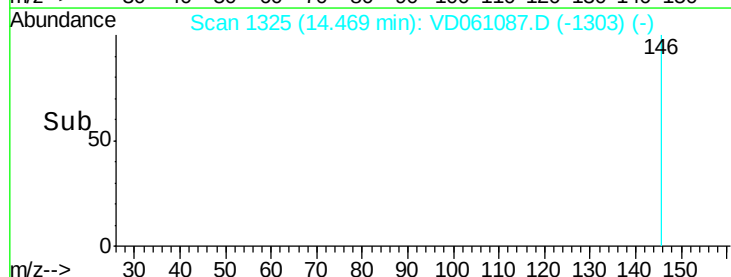
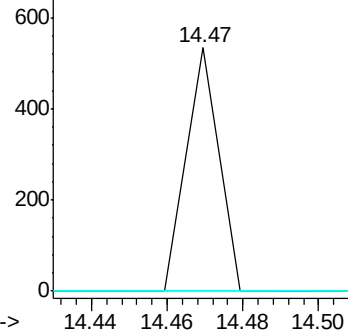
148 0.0 32.5 97.4#

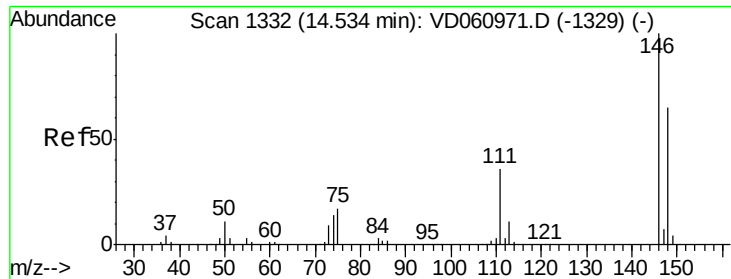


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 2.299 ug/l

RT: 14.55 min Scan# 1333

Delta R.T. 0.01 min

Lab File: VD061087.D

Acq: 15 Mar 2019 15:19

Instrument :

MSVOA_D

ClientSampleId :

SB-4(0.5-1.5)RE

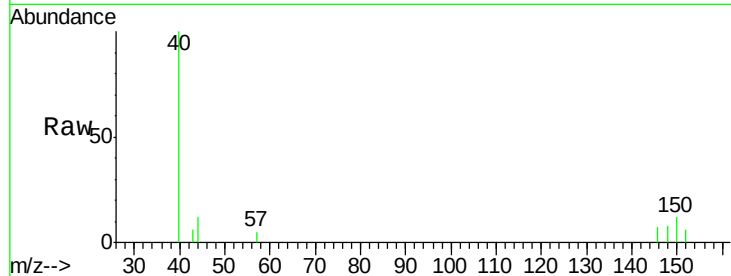
Tot Ion:146 Resp: 239

Ion Ratio Lower Upper

146 100

111 0.0 18.4 55.2#

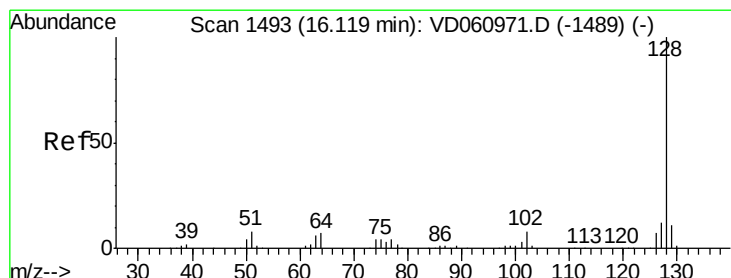
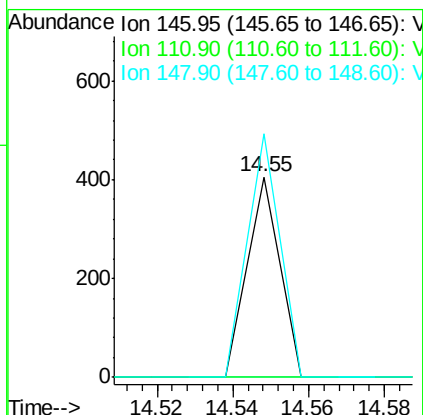
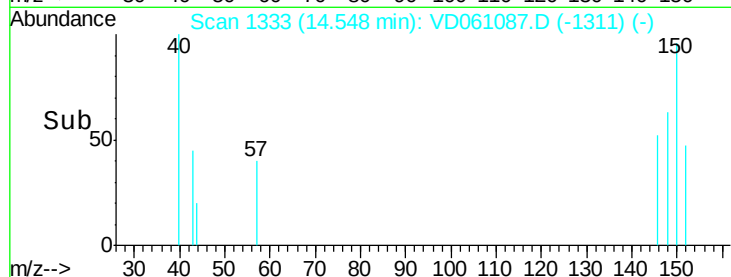
148 121.7 32.5 97.5#



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



#95

Naphthalene

Concen: 14.602 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VD061087.D

Acq: 15 Mar 2019 15:19

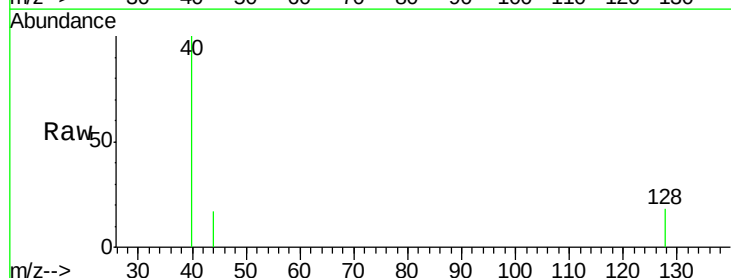
Tgt Ion:128 Resp: 908

Ion Ratio Lower Upper

128 100

127 0.0 9.8 14.8#

129 0.0 8.5 12.7#



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

