

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062618\
 Data File : VD059426.D
 Acq On : 26 Jun 2018 16:24
 Operator : VA/AP
 Sample : J3241-15
 Misc : 5.86g/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 27 05:51:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D062518S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 07:29:35 2018
 Response via : Initial Calibration

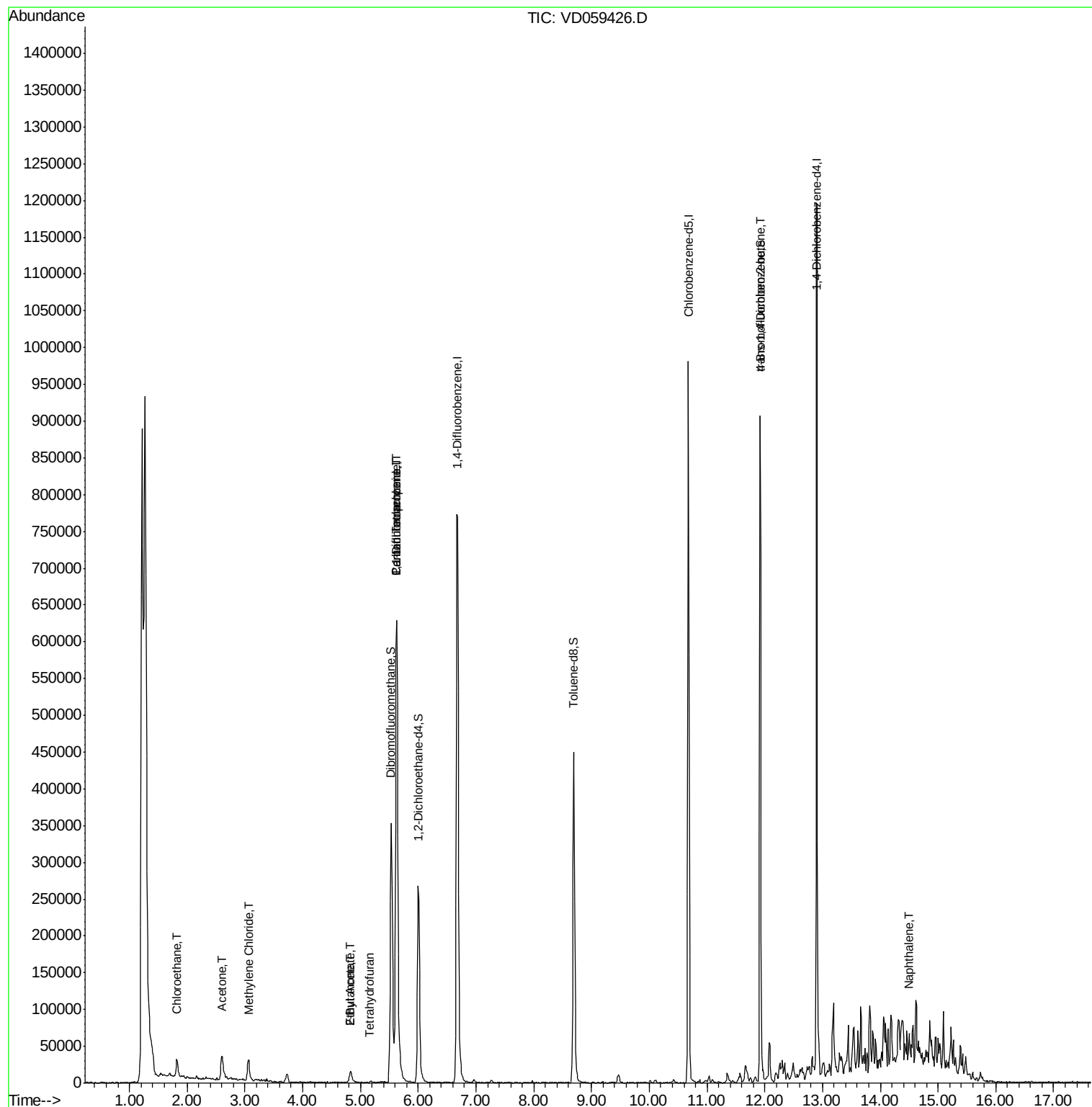
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	650146	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	6.68	114	837059	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.68	117	520677	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.90	152	294640	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.00	65	280461	42.18	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	84.36%	
35) Dibromofluoromethane	5.54	113	294872	43.25	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	86.50%	
50) Toluene-d8	8.69	98	356994	22.40	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	44.80%	
62) 4-Bromofluorobenzene	11.92	95	247904	37.39	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	74.78%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.86	94	396	Below Cal	#	4
6) Chloroethane	1.81	64	367	2.137	ug/l #	41
16) Acetone	2.61	43	75106	89.506	ug/l #	89
18) Methyl Acetate	2.91	43	5625	Below Cal	#	66
20) Methylene Chloride	3.07	84	13999	3.706	ug/l #	88
25) 2-Butanone	4.83	43	4965	2.825	ug/l #	57
29) Tetrahydrofuran	5.16	42	1142	1.188	ug/l #	37
31) Cyclohexane	5.63	56	15316	Below Cal	#	1
36) 1,1-Dichloropropene	5.63	75	52091	6.860	ug/l #	52
37) Ethyl Acetate	4.83	43	4965	1.074	ug/l #	83
38) Carbon Tetrachloride	5.63	117	54592	6.973	ug/l #	15
81) trans-1,4-Dichloro-2-buten	11.92	75	113663	123.047	ug/l #	1
95) Naphthalene	14.51	128	14487	1.540	ug/l #	89

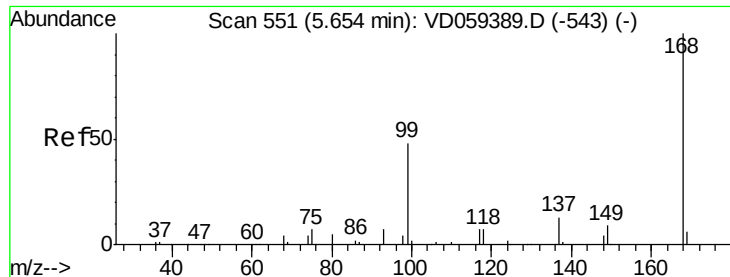
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jun 25 07:29:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.03 min

Lab File: VD059426.D

Acq: 26 Jun 2018 16:24

Instrument :

MSVOA_D

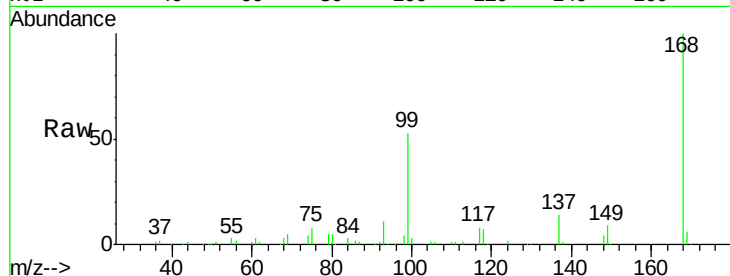
ClientSampleId :

Tot Ion:168 Resp: 650146

Ion Ratio Lower Upper

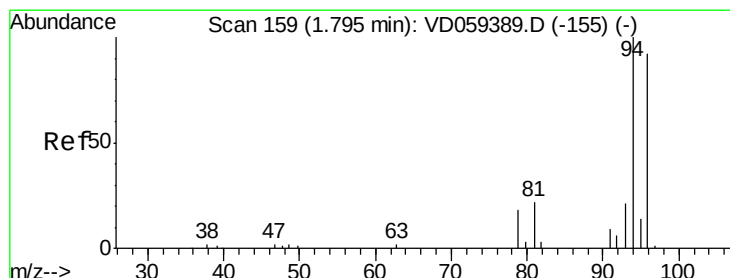
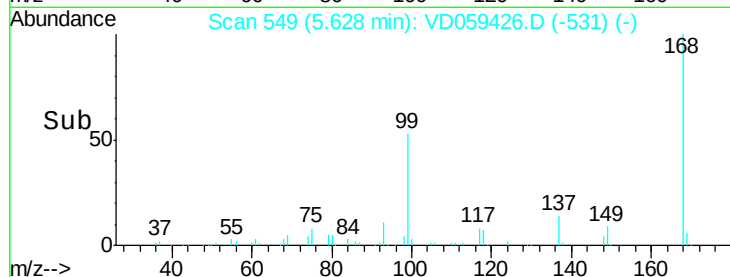
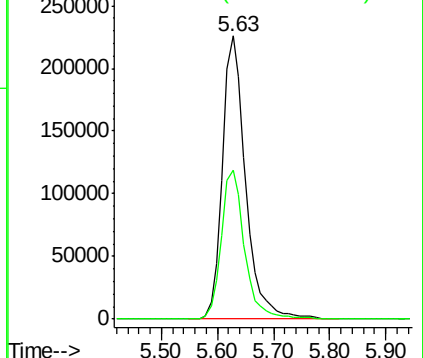
168 100

99 52.7 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: Below Cal

RT: 1.86 min Scan# 166

Delta R.T. 0.06 min

Lab File: VD059426.D

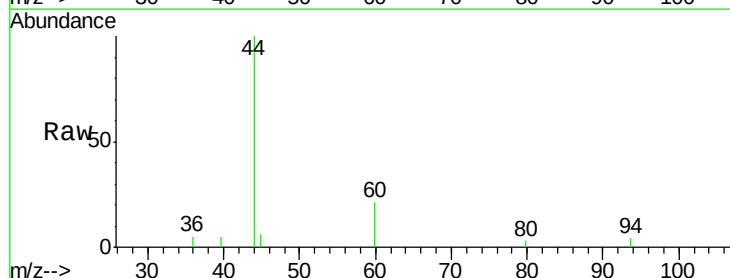
Acq: 26 Jun 2018 16:24

Tgt Ion: 94 Resp: 396

Ion Ratio Lower Upper

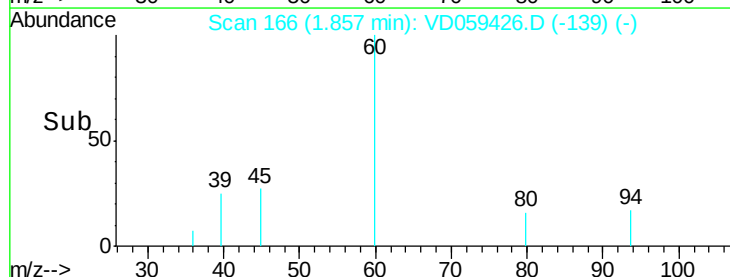
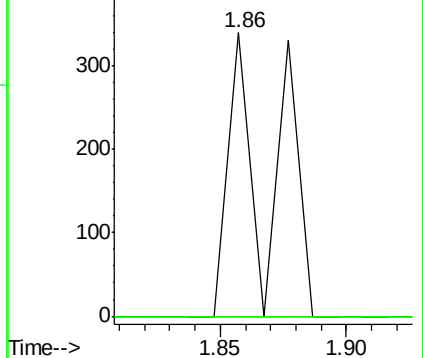
94 100

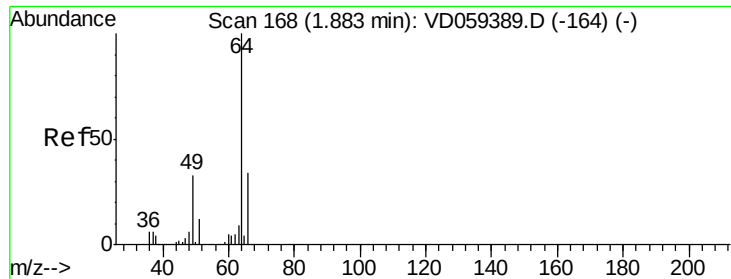
96 0.0 73.4 110.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#6

Chloroethane

Concen: 2.137 ug/l

RT: 1.81 min Scan# 161

Delta R.T. -0.07 min

Lab File: VD059426.D

Acq: 26 Jun 2018 16:24

Instrument :

MSVOA_D

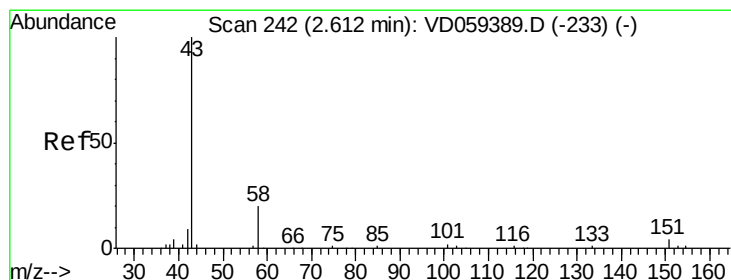
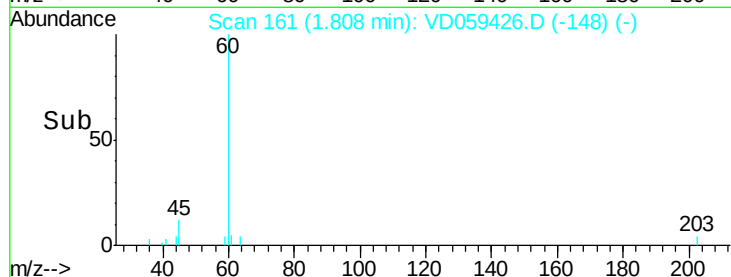
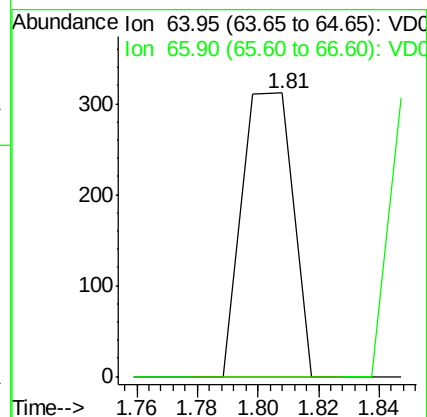
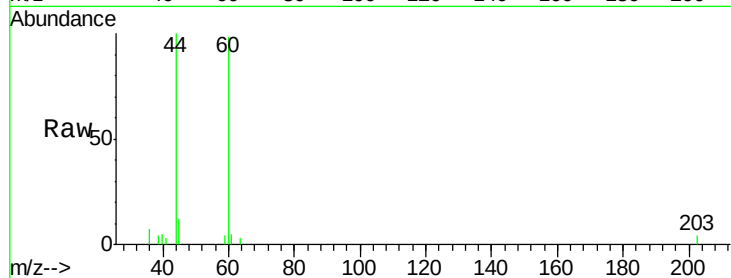
ClientSampleId :

Tot Ion: 64 Resp: 367

Ion Ratio Lower Upper

64 100

66 0.0 27.1 40.7#



#16

Acetone

Concen: 89.506 ug/l

RT: 2.61 min Scan# 242

Delta R.T. -0.01 min

Lab File: VD059426.D

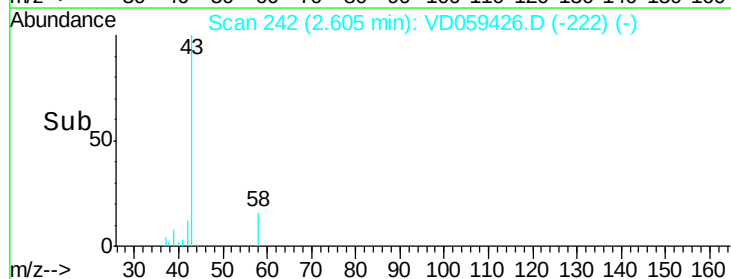
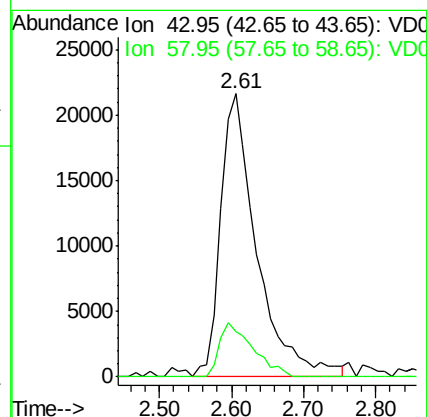
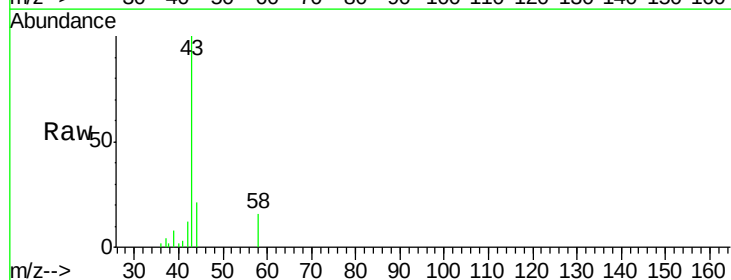
Acq: 26 Jun 2018 16:24

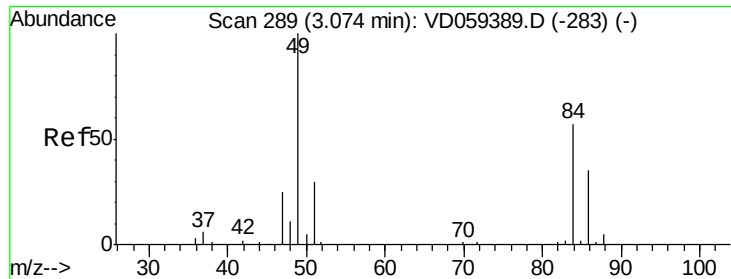
Tgt Ion: 43 Resp: 75106

Ion Ratio Lower Upper

43 100

58 15.9 16.8 25.2#

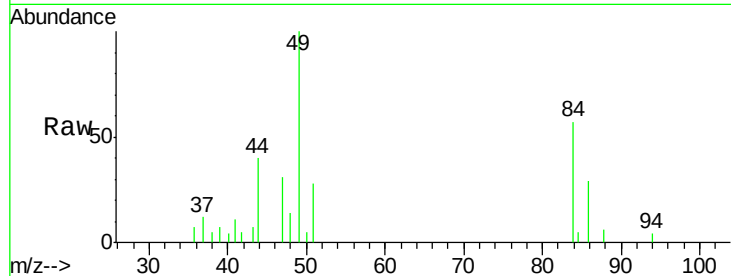




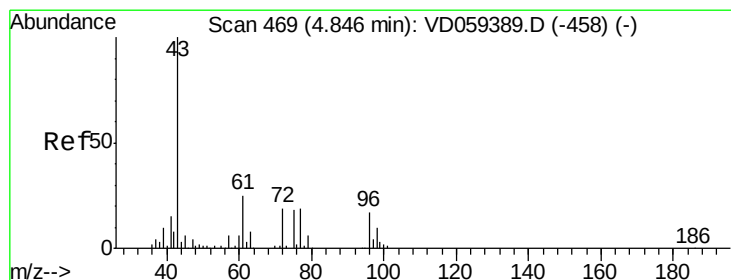
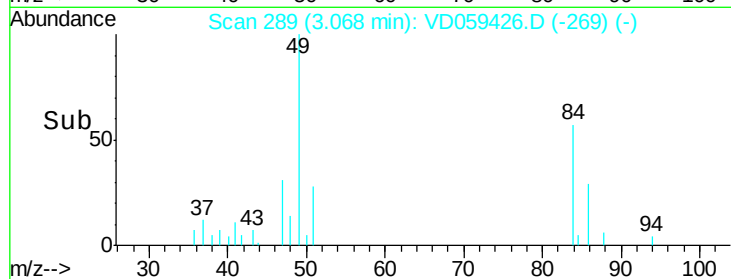
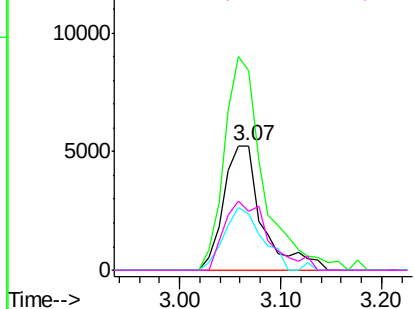
#20
Methvlene Chloride
Concen: 3.706 ug/l
RT: 3.07 min Scan# 289
Delta R.T. -0.01 min
Lab File: VD059426.D
Acq: 26 Jun 2018 16:24

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 13999
Ion Ratio Lower Upper
84 100
49 160.7 140.3 210.5
51 45.1 41.6 62.4
86 46.8 49.4 74.2#

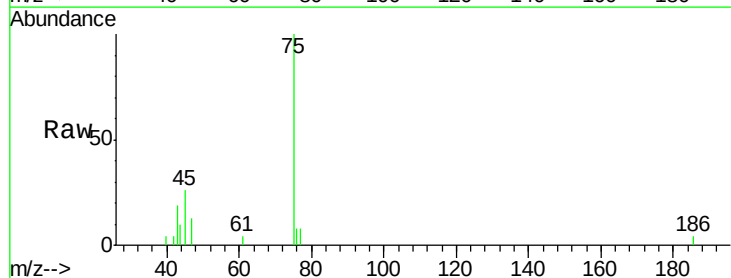


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

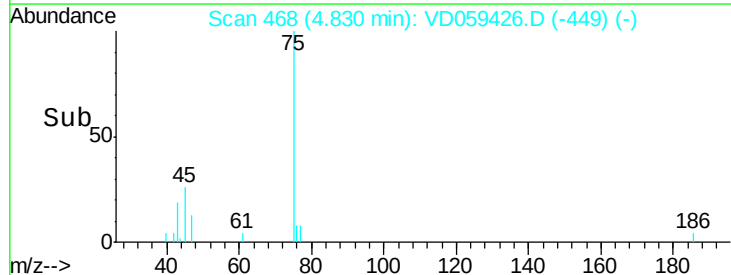
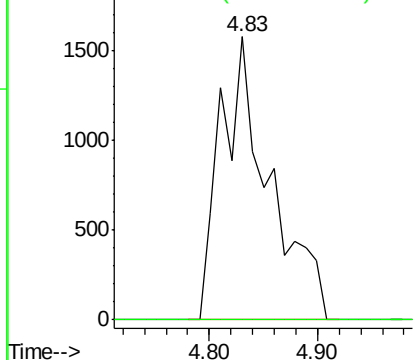


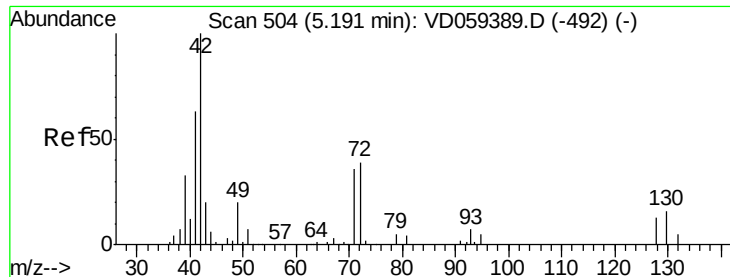
#25
2-Butanone
Concen: 2.825 ug/l
RT: 4.83 min Scan# 468
Delta R.T. -0.02 min
Lab File: VD059426.D
Acq: 26 Jun 2018 16:24

Tgt Ion: 43 Resp: 4965
Ion Ratio Lower Upper
43 100
72 0.0 15.4 23.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC

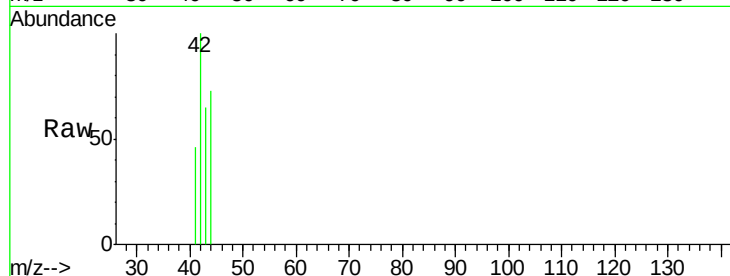




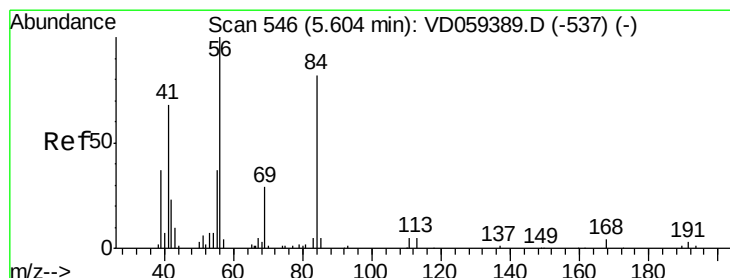
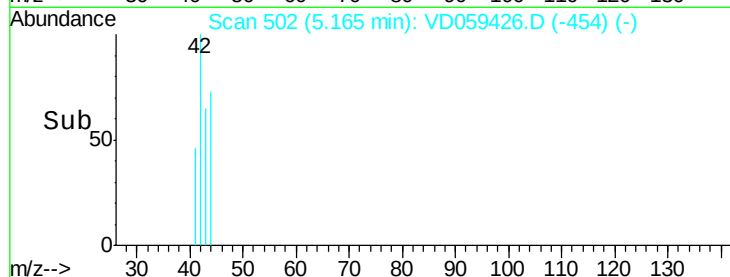
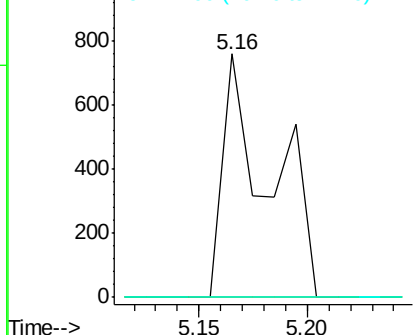
#29
Tetrahydrofuran
Concen: 1.188 ug/l
RT: 5.16 min Scan# 502
Delta R.T. -0.03 min
Lab File: VD059426.D
Acq: 26 Jun 2018 16:24

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 42 Resp: 1142
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.2#
71 0.0 29.7 44.5#

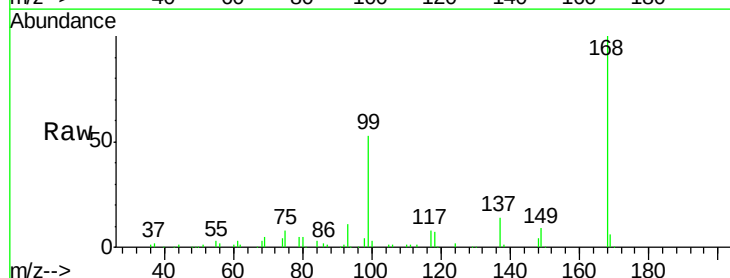


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

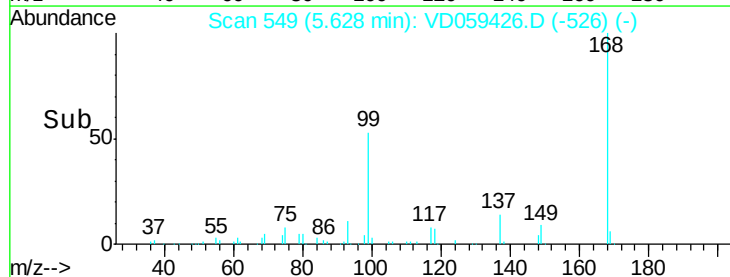
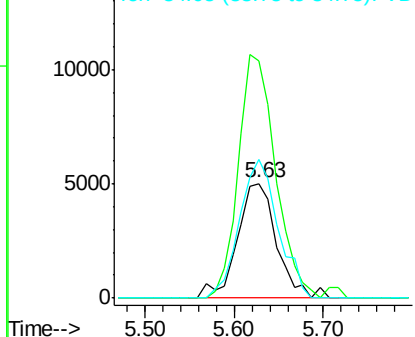


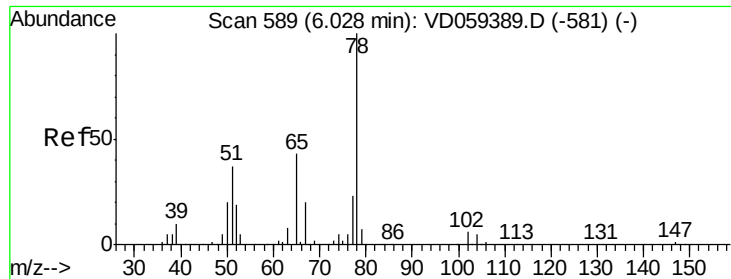
#31
Cyclohexane
Concen: Below Cal
RT: 5.63 min Scan# 549
Delta R.T. 0.02 min
Lab File: VD059426.D
Acq: 26 Jun 2018 16:24

Tgt Ion: 56 Resp: 15316
Ion Ratio Lower Upper
56 100
69 207.0 22.9 34.3#
84 121.5 67.3 100.9#



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

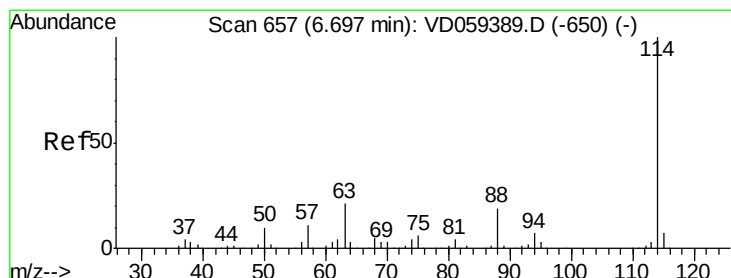
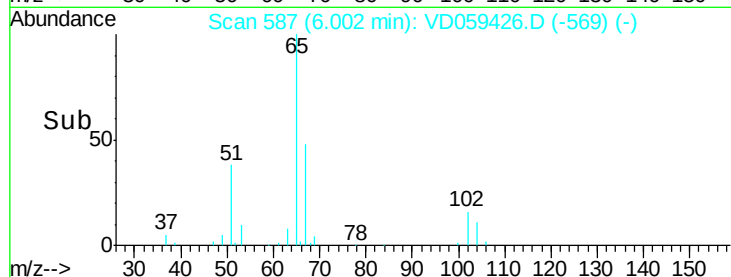
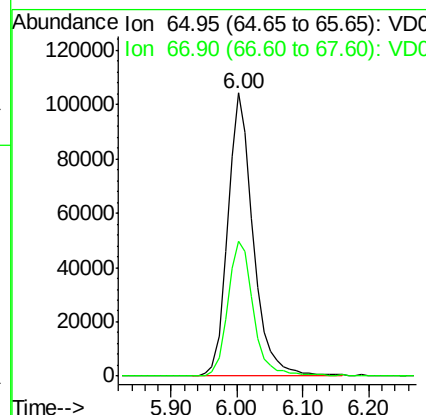
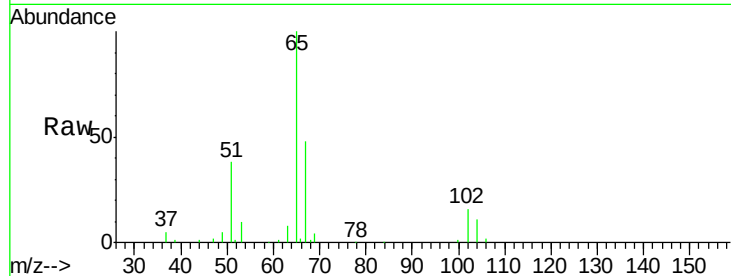




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.00 min Scan# 587
 Delta R.T. -0.03 min
 Lab File: VD059426.D
 Acq: 26 Jun 2018 16:24

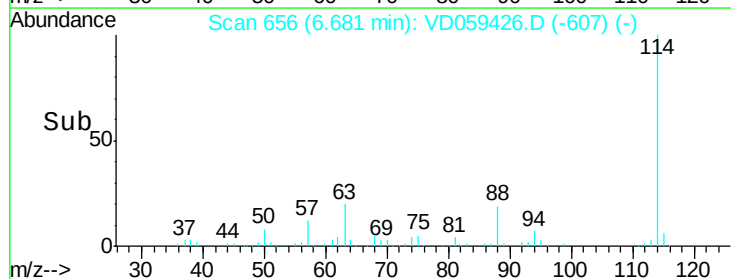
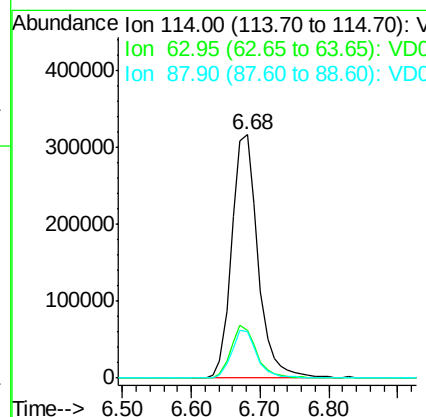
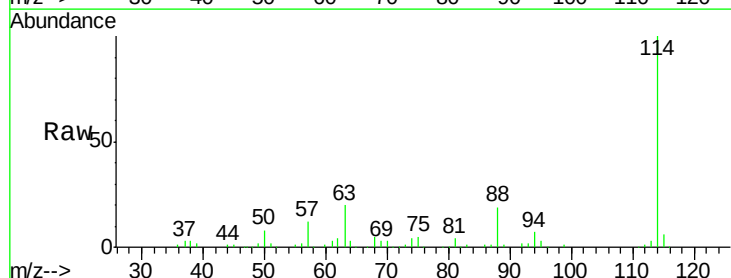
Instrument :
 MSVOA_D
 ClientSampled :

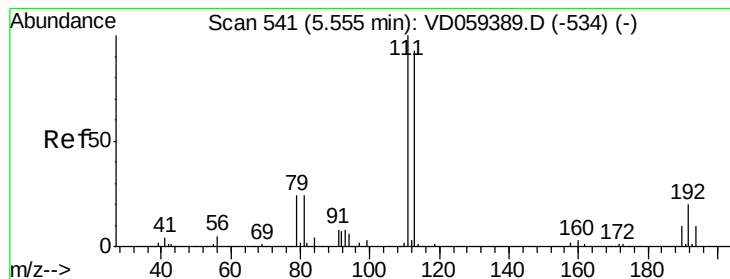
Tot Ion: 65 Resp: 280461
 Ion Ratio Lower Upper
 65 100
 67 47.8 0.0 93.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.68 min Scan# 656
 Delta R.T. -0.02 min
 Lab File: VD059426.D
 Acq: 26 Jun 2018 16:24

Tgt Ion: 114 Resp: 837059
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 42.4
 88 19.0 0.0 38.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.54 min Scan# 540

Delta R.T. -0.02 min

Lab File: VD059426.D

Acq: 26 Jun 2018 16:24

Instrument :
MSVOA_D
ClientSampled :

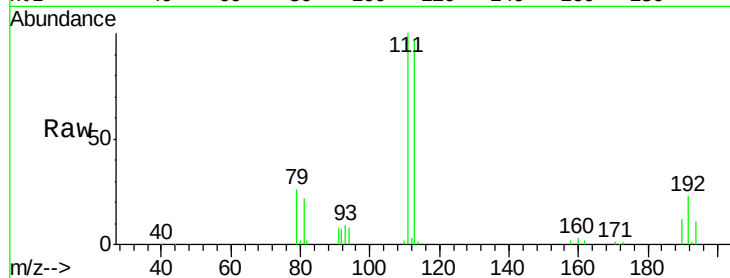
Tot Ion:113 Resp: 294872

Ion Ratio Lower Upper

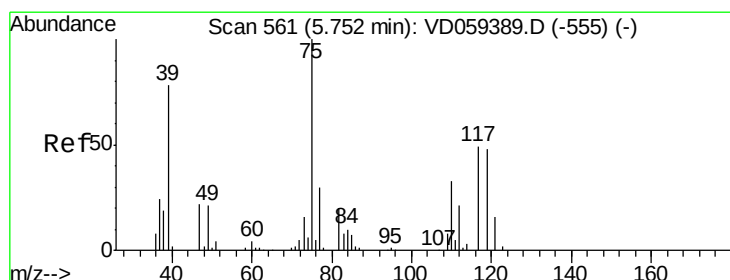
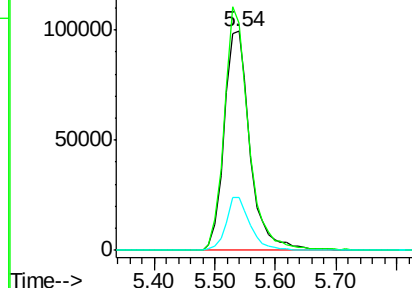
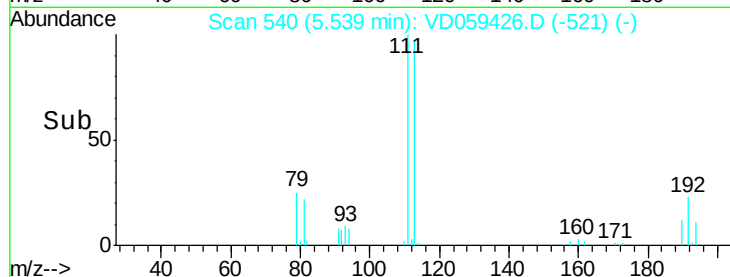
113 100

111 103.4 85.7 128.5

192 24.1 16.9 25.3



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: 6.860 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.12 min

Lab File: VD059426.D

Acq: 26 Jun 2018 16:24

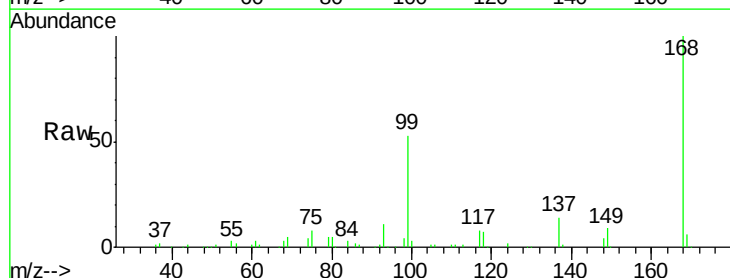
Tgt Ion: 75 Resp: 52091

Ion Ratio Lower Upper

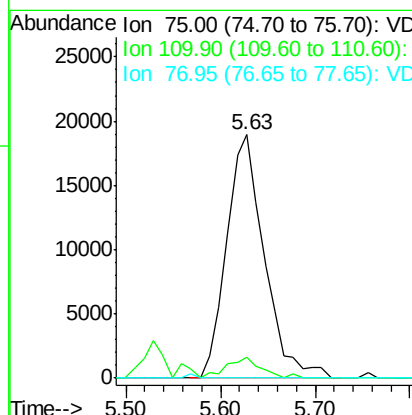
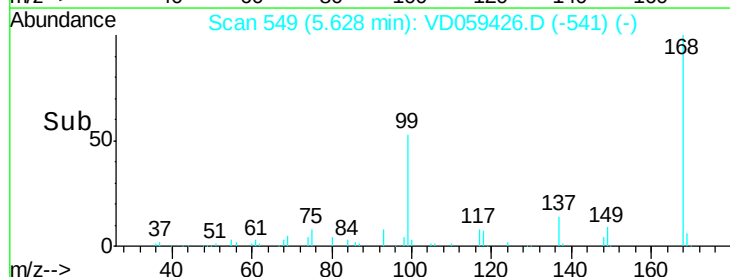
75 100

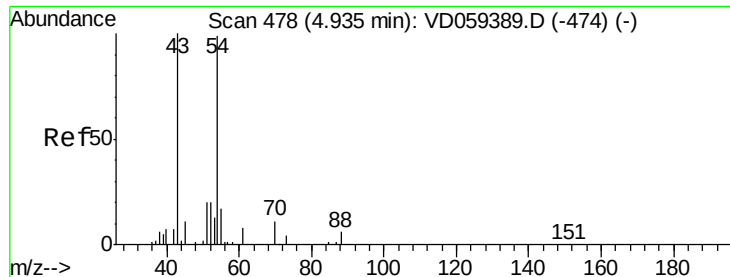
110 8.3 16.1 48.2#

77 0.0 23.4 35.2#



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





#37

Ethyl Acetate

Concen: 1.074 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.10 min

Lab File: VD059426.D

Acq: 26 Jun 2018 16:24

Instrument :

MSVOA_D

ClientSampleId :

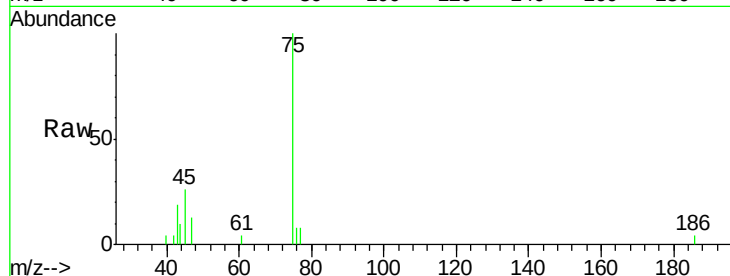
Tot Ion: 43 Resp: 4965

Ion Ratio Lower Upper

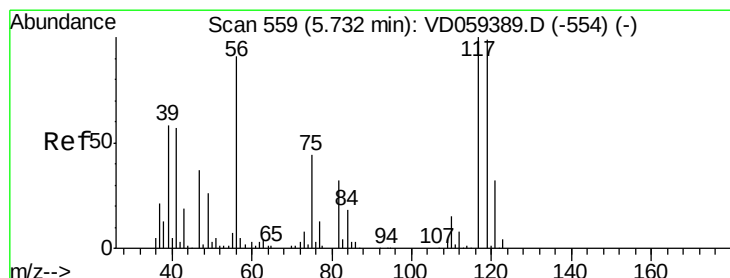
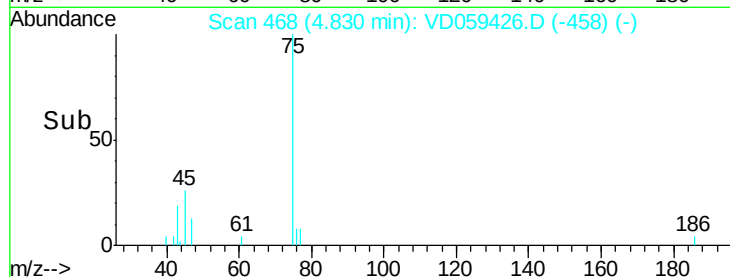
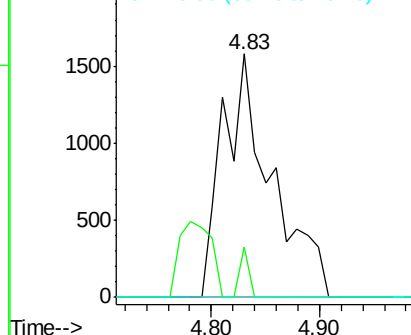
43 100

61 20.8 11.8 17.8#

70 0.0 6.1 9.1#



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: 6.973 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.10 min

Lab File: VD059426.D

Acq: 26 Jun 2018 16:24

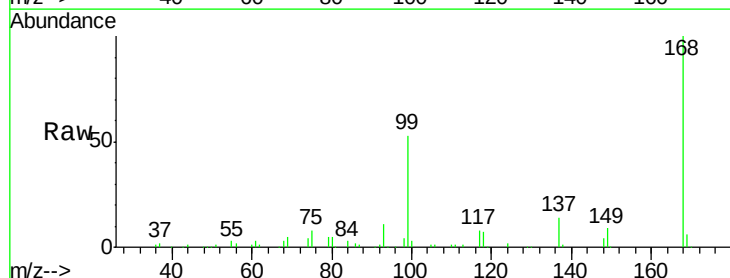
Tgt Ion: 117 Resp: 54592

Ion Ratio Lower Upper

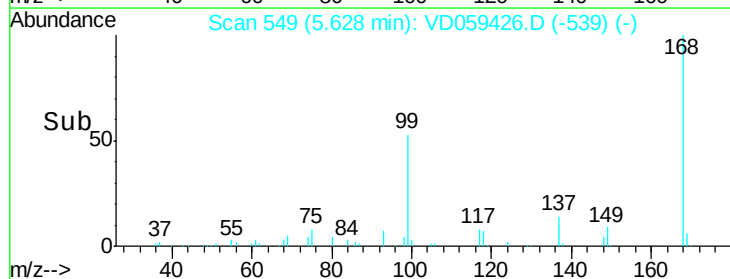
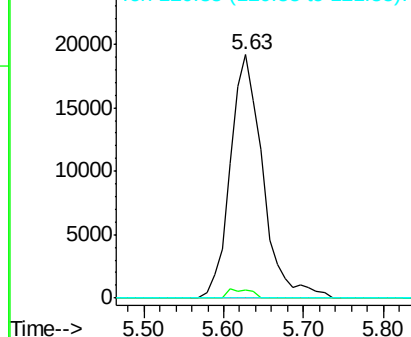
117 100

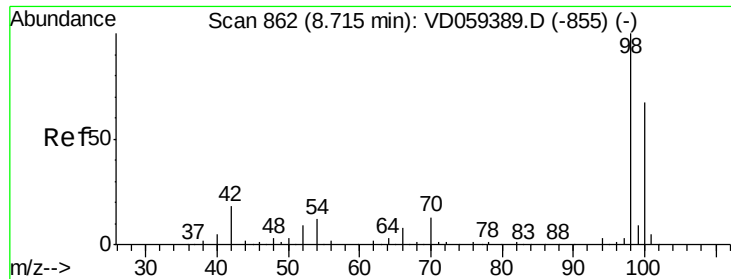
119 3.3 76.6 115.0#

121 0.0 25.0 37.4#



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

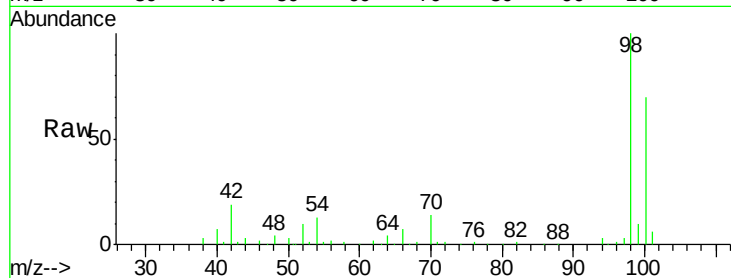




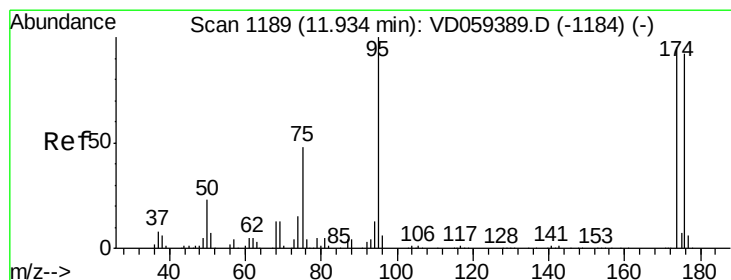
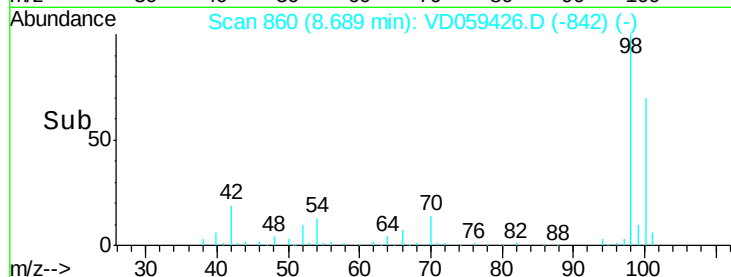
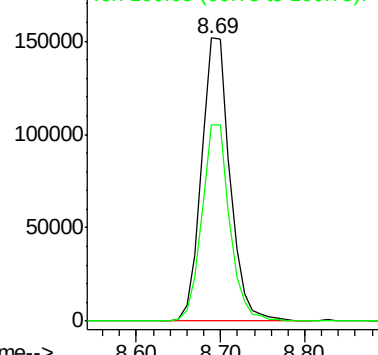
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.69 min Scan# 860
Delta R.T. -0.03 min
Lab File: VD059426.D
Acq: 26 Jun 2018 16:24

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 356994
Ion Ratio Lower Upper
98 100
100 69.5 54.4 81.6

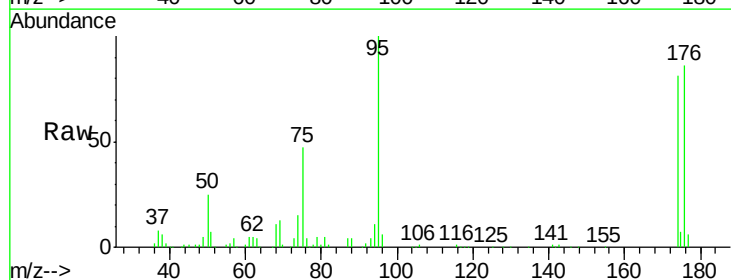


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

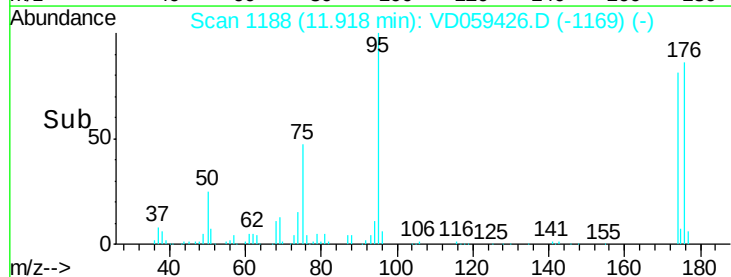
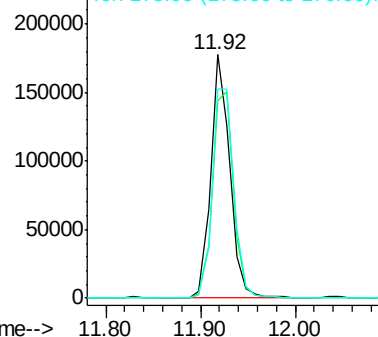


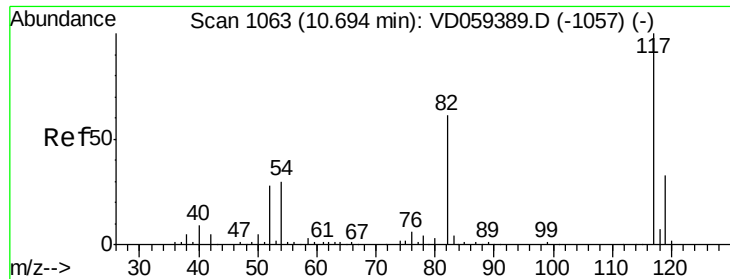
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.92 min Scan# 1188
Delta R.T. -0.02 min
Lab File: VD059426.D
Acq: 26 Jun 2018 16:24

Tgt Ion: 95 Resp: 247904
Ion Ratio Lower Upper
95 100
174 81.1 0.0 190.4
176 85.7 0.0 183.2



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

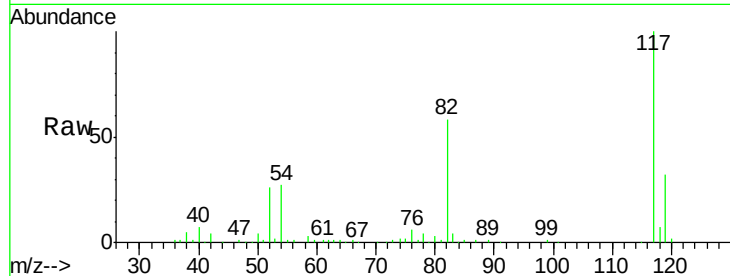




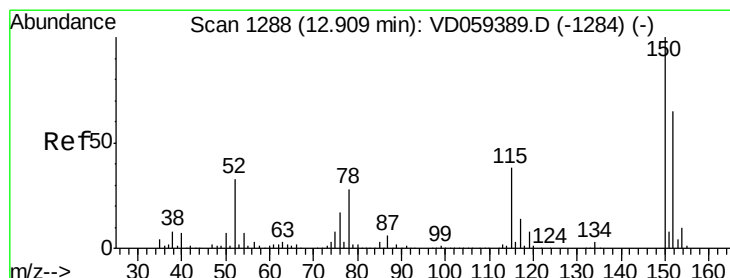
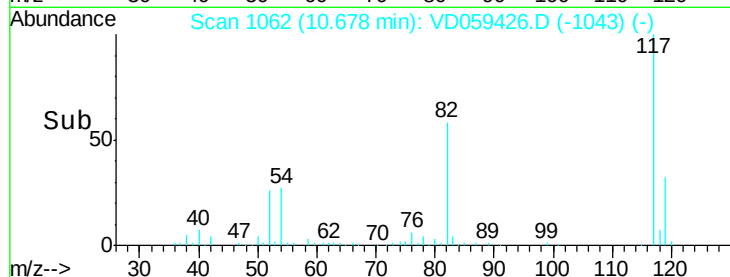
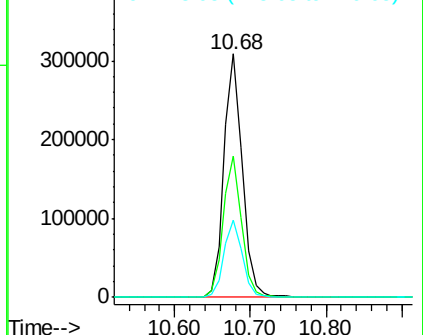
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.68 min Scan# 1062
Delta R.T. -0.02 min
Lab File: VD059426.D
Acq: 26 Jun 2018 16:24

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 520677
Ion Ratio Lower Upper
117 100
82 57.8 49.0 73.6
119 31.5 26.2 39.4

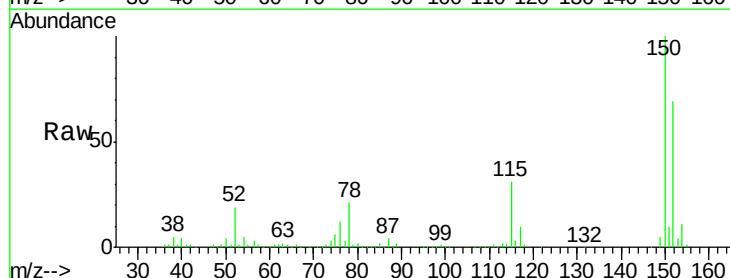


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

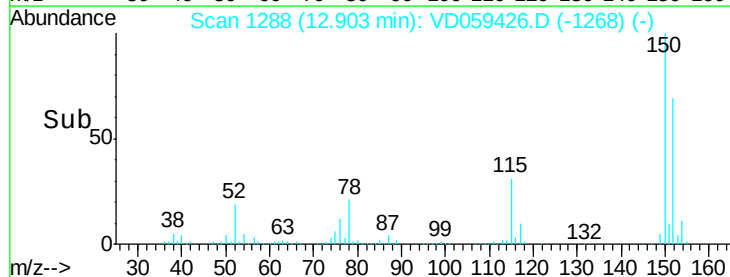
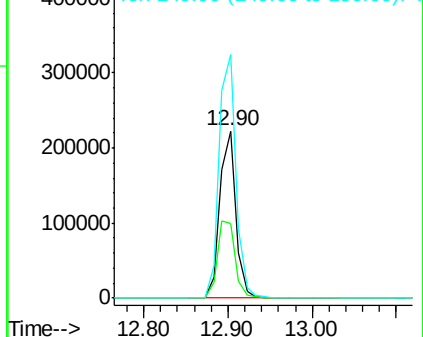


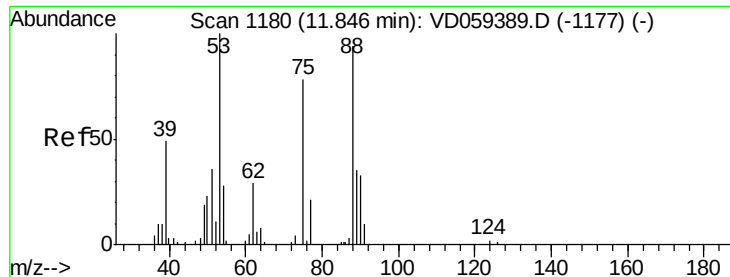
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.90 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VD059426.D
Acq: 26 Jun 2018 16:24

Tgt Ion:152 Resp: 294640
Ion Ratio Lower Upper
152 100
115 44.9 29.4 88.3
150 146.0 0.0 308.2



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





#81

trans-1,4-Dichloro-2-butene

Concen: 123.047 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.07 min

Lab File: VD059426.D

Acq: 26 Jun 2018 16:24

Instrument :

MSVOA_D

ClientSampled :

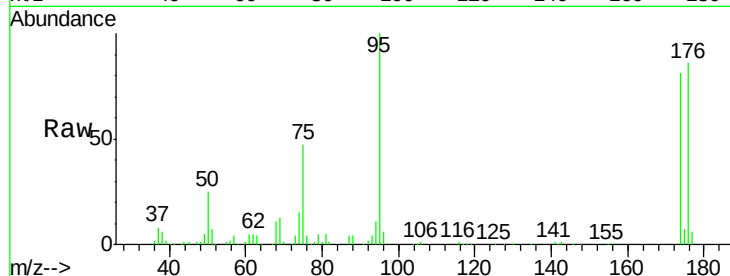
Tot Ion: 75 Resp: 113663

Ion Ratio Lower Upper

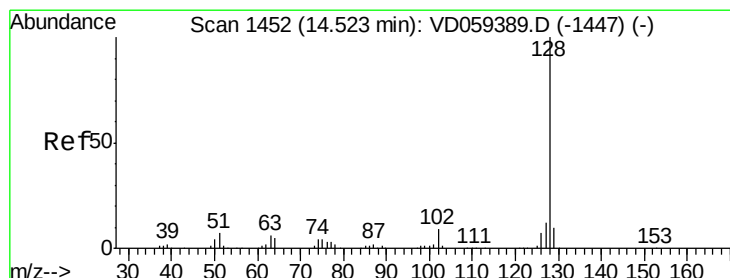
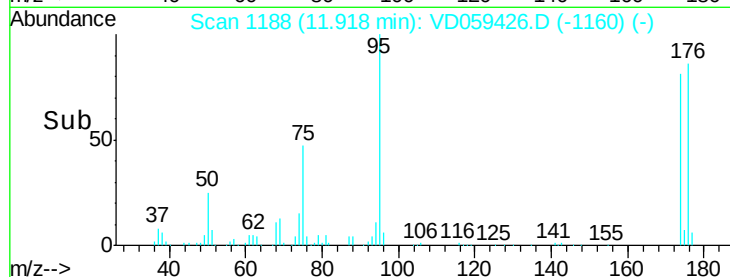
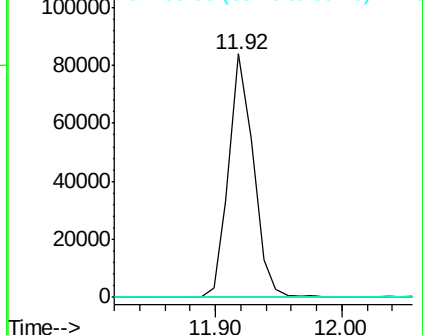
75 100

53 0.0 102.6 154.0#

89 0.0 35.9 53.9#



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



#95

Naphthalene

Concen: 1.540 ug/l

RT: 14.51 min Scan# 1451

Delta R.T. -0.02 min

Lab File: VD059426.D

Acq: 26 Jun 2018 16:24

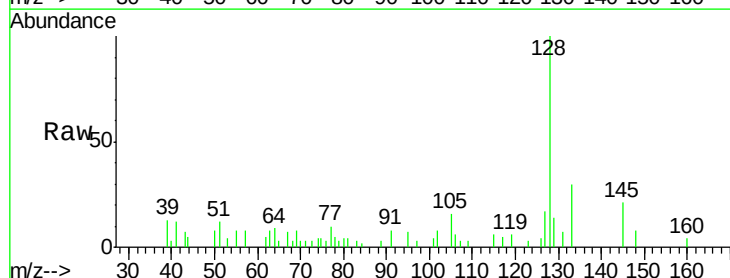
Tgt Ion:128 Resp: 14487

Ion Ratio Lower Upper

128 100

127 16.8 9.6 14.4#

129 13.7 8.2 12.2#



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

