

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062818\
 Data File : VD059474.D
 Acq On : 28 Jun 2018 20:39
 Operator : VA/AP
 Sample : J3677-08
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 29 01:28:45 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	5.64	168	104753	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	6.69	114	148000	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	142793	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	74201	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.02	65	74461	69.51	ug/l	0.00
Spiked Amount 50.000			Recovery	=	139.02%	
35) Dibromofluoromethane	5.55	113	62415	51.77	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.54%	
50) Toluene-d8	8.71	98	105557	37.46	ug/l	0.00
Spiked Amount 50.000			Recovery	=	74.92%	
62) 4-Bromofluorobenzene	11.93	95	57867	49.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.72%	

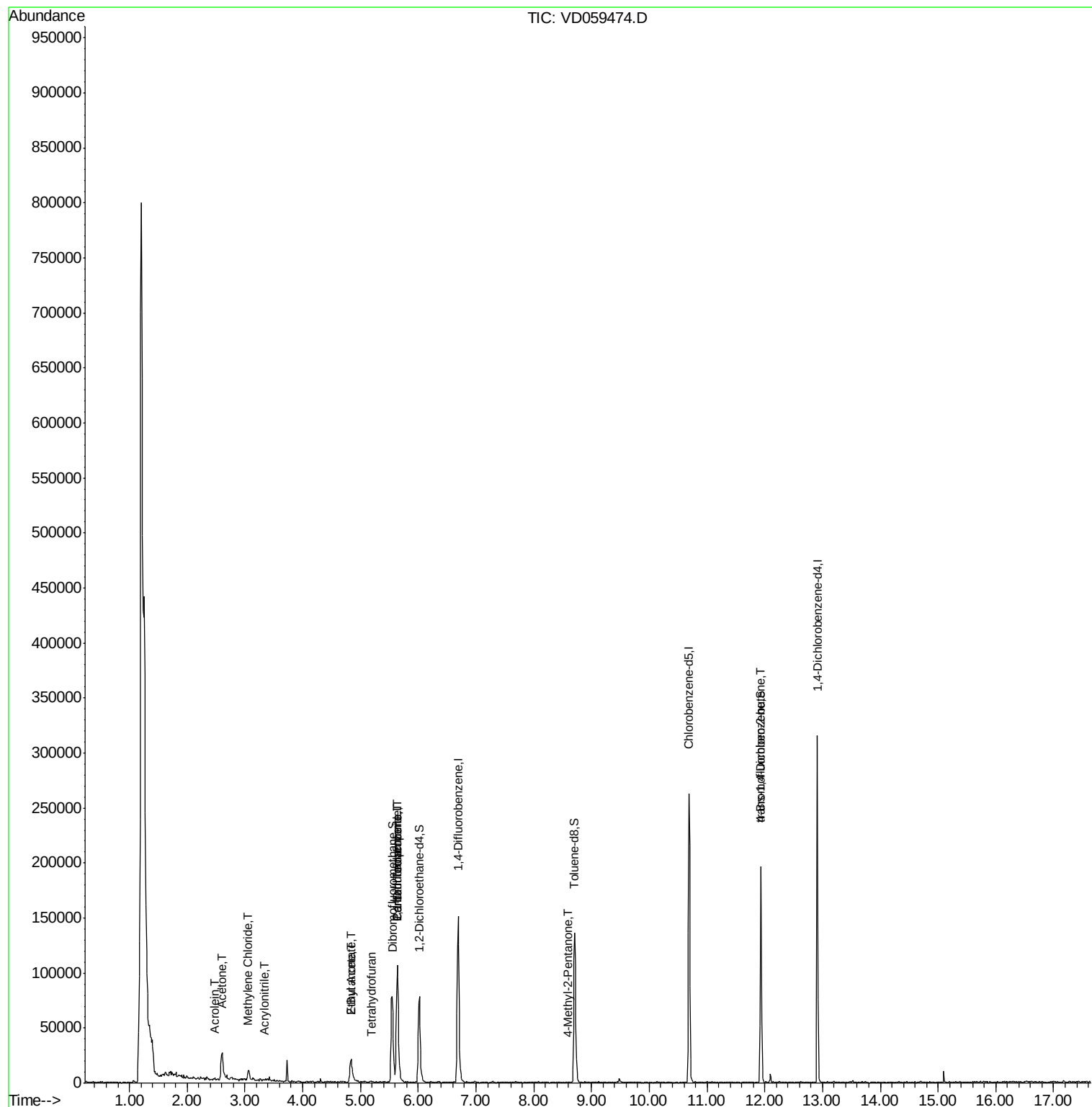
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.81	94	286	Below Cal	#	4
13) Acrolein	2.47	56	418	12.617	ug/l #	16
15) Acrylonitrile	3.33	53	197	1.732	ug/l #	16
16) Acetone	2.61	43	52478	388.148	ug/l	98
18) Methyl Acetate	2.93	43	249	Below Cal	#	66
20) Methylene Chloride	3.07	84	3886	8.282	ug/l #	82
25) 2-Butanone	4.83	43	16191	57.168	ug/l	97
29) Tetrahydrofuran	5.18	42	219	1.414	ug/l #	37
31) Cyclohexane	5.64	56	1777	Below Cal	#	38
36) 1,1-Dichloropropene	5.64	75	9076	6.760	ug/l #	44
37) Ethyl Acetate	4.83	43	16191	19.803	ug/l #	69
38) Carbon Tetrachloride	5.64	117	8598	6.211	ug/l #	12
51) 4-Methyl-2-Pentanone	8.59	43	1108	1.619	ug/l #	42
81) trans-1,4-Dichloro-2-buten	11.93	75	27225	117.032	ug/l #	1

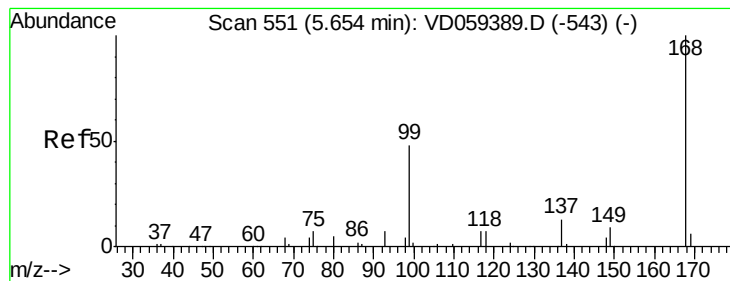
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jun 25 07:29:35 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.02 min

Lab File: VD059474.D

Acq: 28 Jun 2018 20:39

Instrument :

MSVOA_D

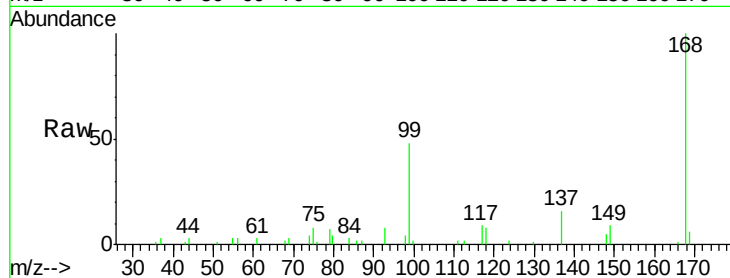
ClientSampled :

Tot Ion:168 Resp: 104753

Ion Ratio Lower Upper

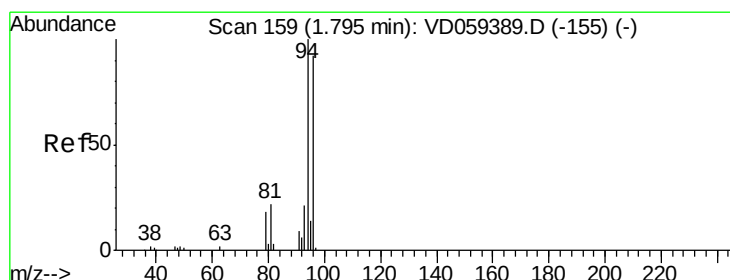
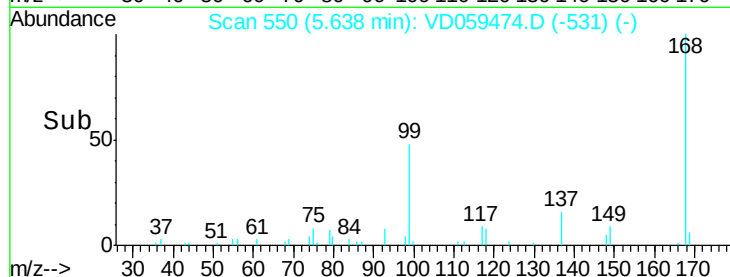
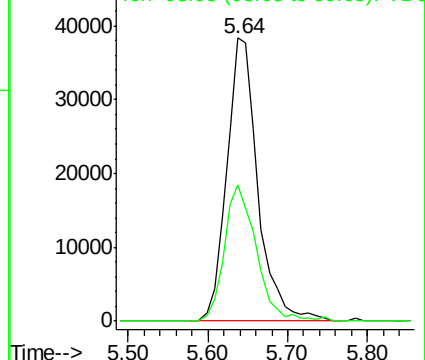
168 100

99 48.3 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: 1.81 min Scan# 161

Delta R.T. 0.01 min

Lab File: VD059474.D

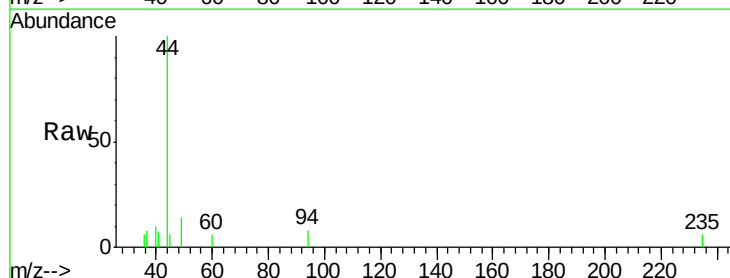
Acq: 28 Jun 2018 20:39

Tgt Ion: 94 Resp: 286

Ion Ratio Lower Upper

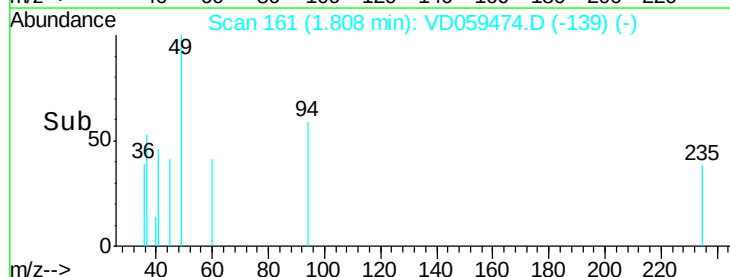
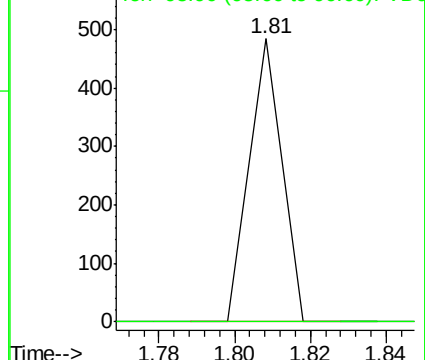
94 100

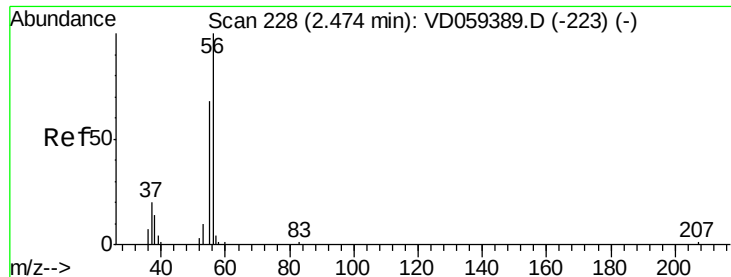
96 0.0 73.4 110.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#13

Acrolein

Concen: 12.617 ug/l

RT: 2.47 min Scan# 228

Delta R.T. -0.01 min

Lab File: VD059474.D

Acq: 28 Jun 2018 20:39

Instrument :

MSVOA_D

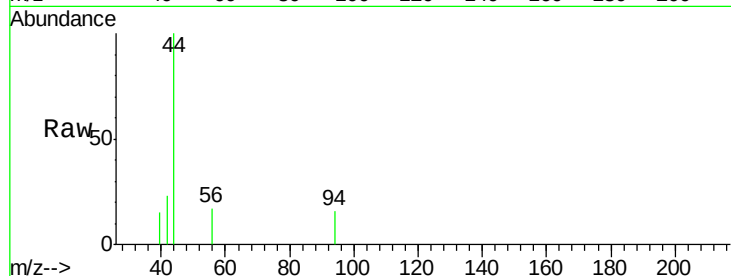
ClientSampleId :

Tot Ion: 56 Resp: 418

Ion Ratio Lower Upper

56 100

55 0.0 54.6 82.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

2.47

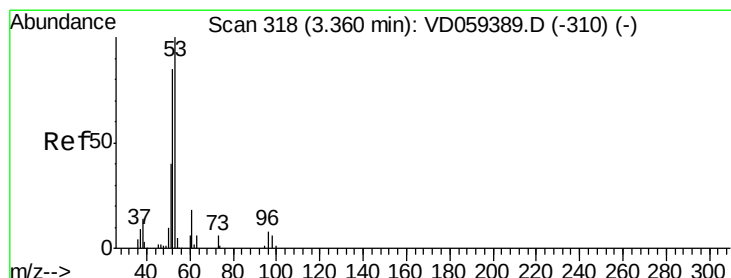
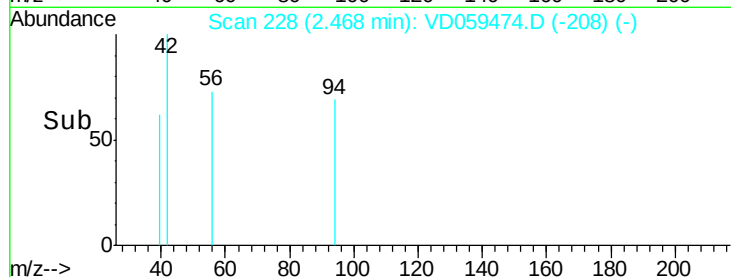
300

200

100

0

Time-->



#15

Acrylonitrile

Concen: 1.732 ug/l

RT: 3.33 min Scan# 316

Delta R.T. -0.03 min

Lab File: VD059474.D

Acq: 28 Jun 2018 20:39

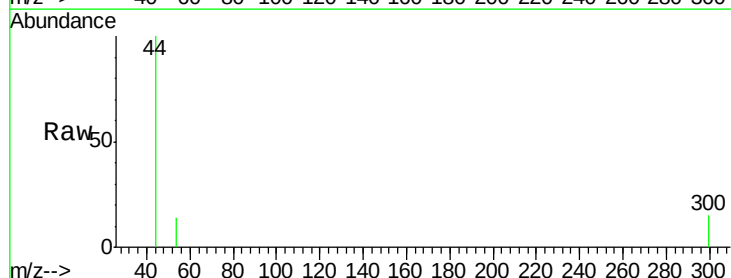
Tgt Ion: 53 Resp: 197

Ion Ratio Lower Upper

53 100

52 0.0 67.9 101.9#

51 0.0 32.2 48.4#



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC

500

400

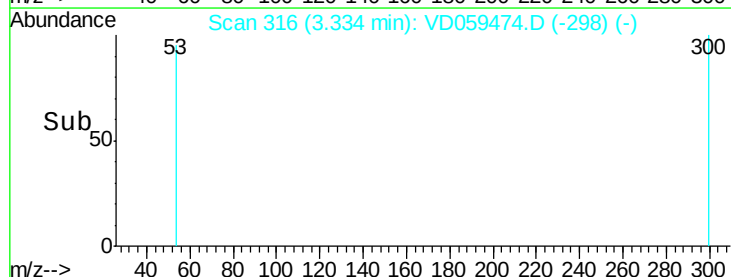
300

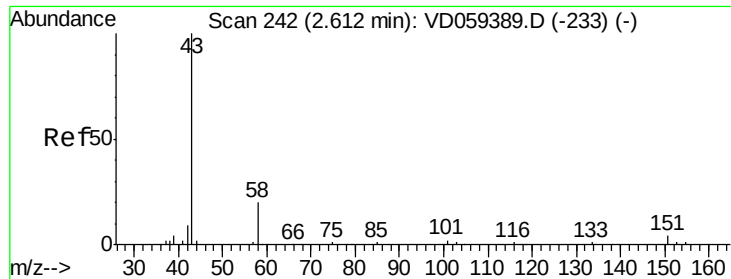
200

100

0

Time-->

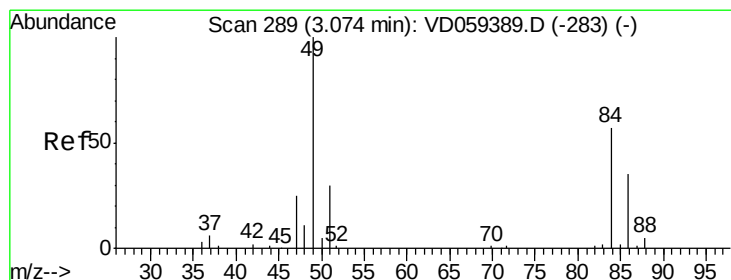
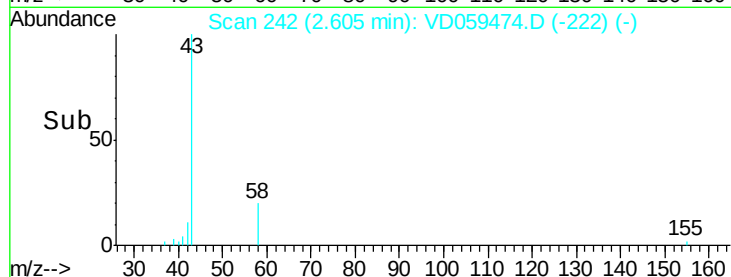
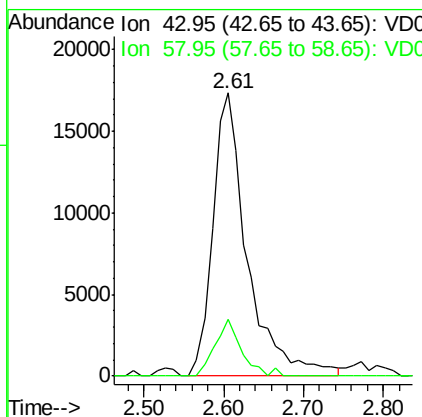
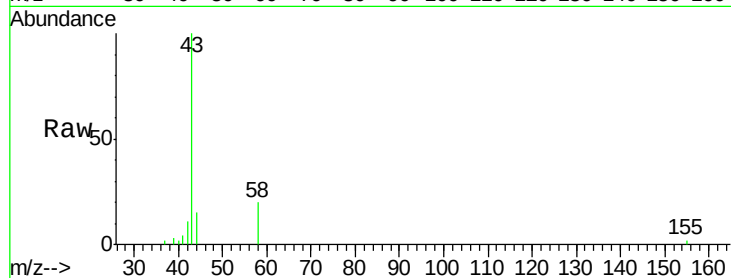




#16
Acetone
Concen: 388.148 ug/l
RT: 2.61 min Scan# 242
Delta R.T. -0.01 min
Lab File: VD059474.D
Acq: 28 Jun 2018 20:39

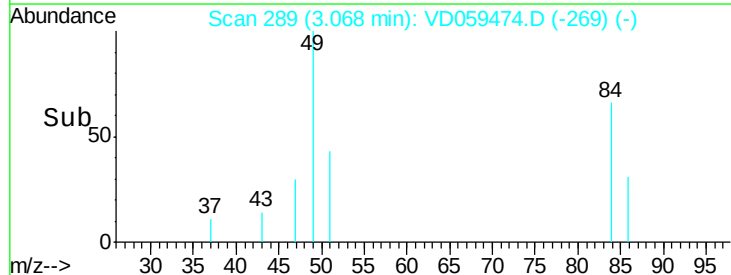
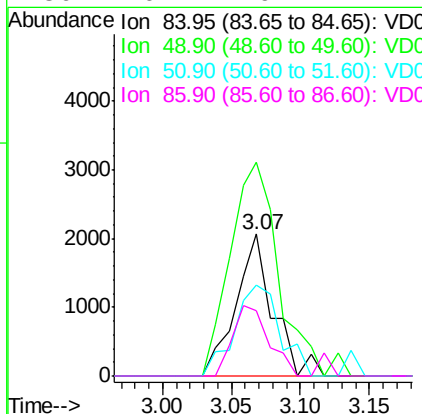
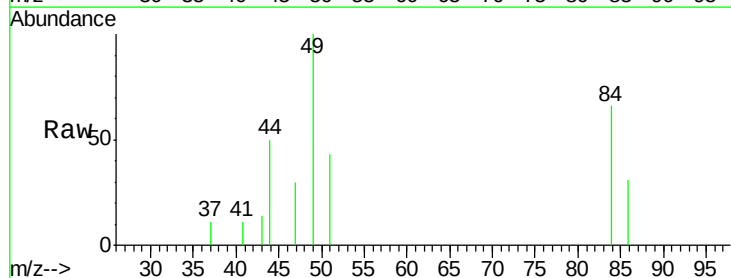
Instrument :
MSVOA_D
ClientSampleId :

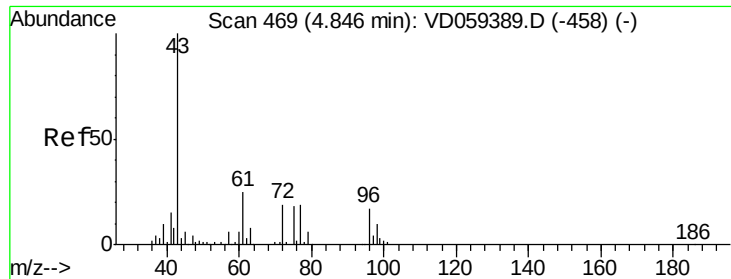
Tot Ion: 43 Resp: 52478
Ion Ratio Lower Upper
43 100
58 20.2 16.8 25.2



#20
Methylene Chloride
Concen: 8.282 ug/l
RT: 3.07 min Scan# 289
Delta R.T. -0.01 min
Lab File: VD059474.D
Acq: 28 Jun 2018 20:39

Tgt Ion: 84 Resp: 3886
Ion Ratio Lower Upper
84 100
49 150.6 140.3 210.5
51 64.2 41.6 62.4#
86 46.4 49.4 74.2#





#25

2-Butanone

Concen: 57.168 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.02 min

Lab File: VD059474.D

Acq: 28 Jun 2018 20:39

Instrument :

MSVOA_D

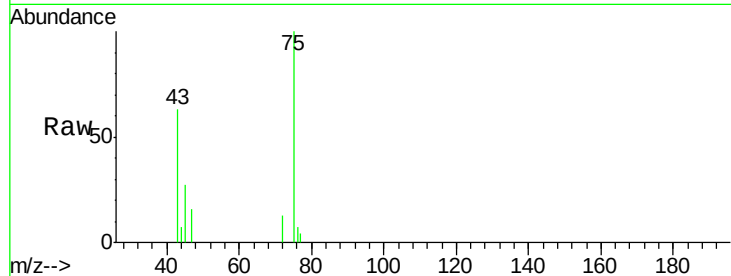
ClientSampleId :

Tot Ion: 43 Resp: 16191

Ion Ratio Lower Upper

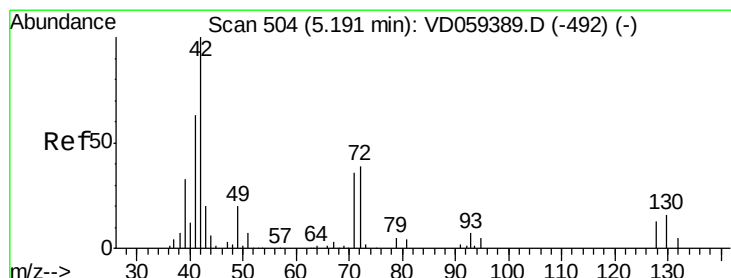
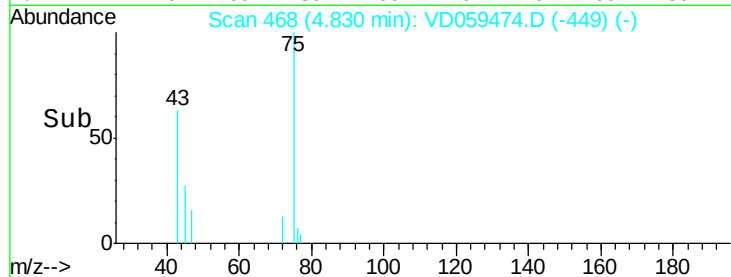
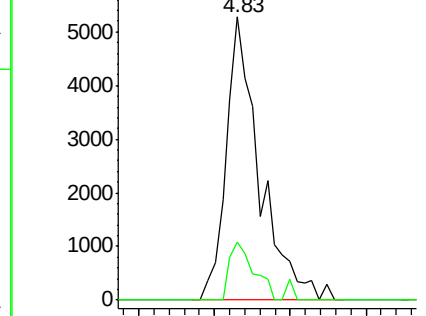
43 100

72 20.6 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: 1.414 ug/l

RT: 5.18 min Scan# 504

Delta R.T. -0.01 min

Lab File: VD059474.D

Acq: 28 Jun 2018 20:39

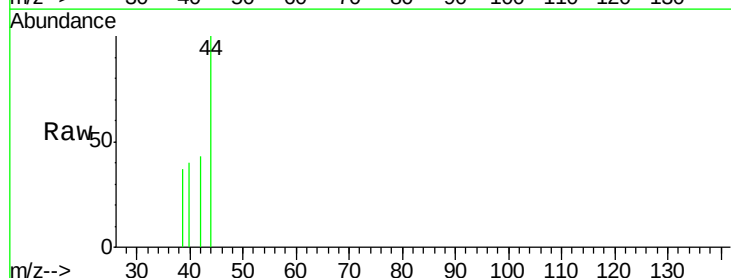
Tgt Ion: 42 Resp: 219

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.2#

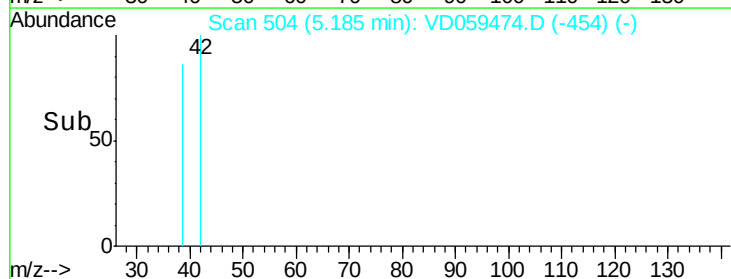
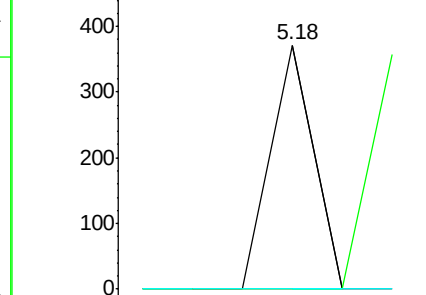
71 0.0 29.7 44.5#

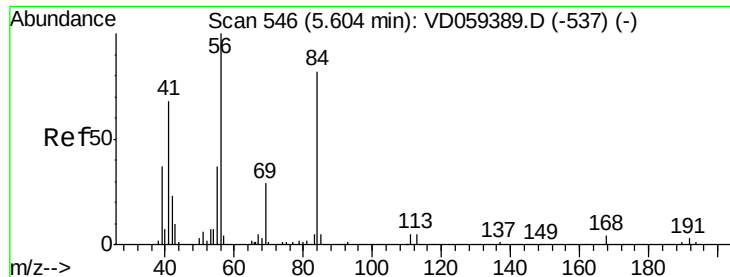


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

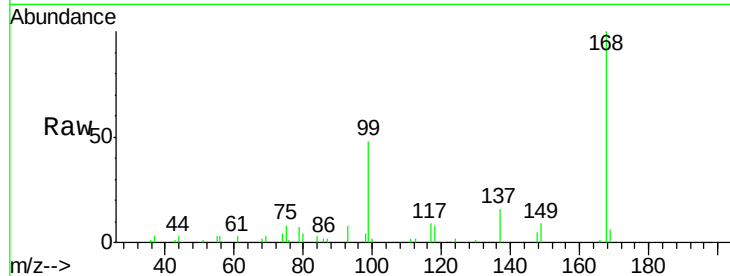




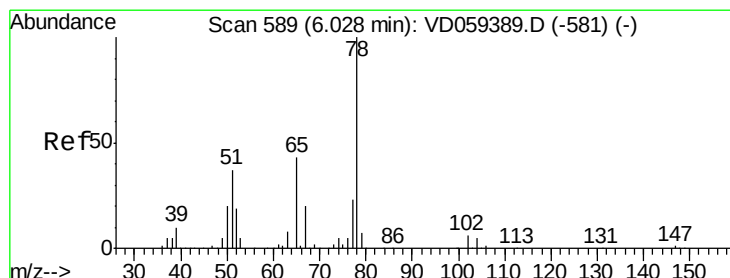
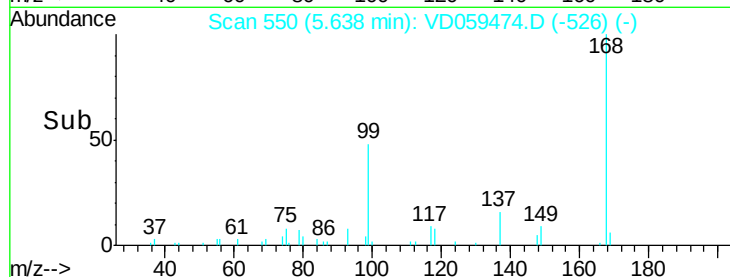
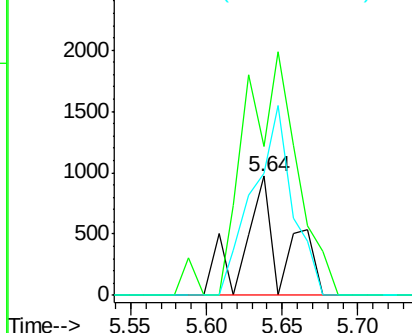
#31
Cyclohexane
Concen: Below Cal
RT: 5.64 min Scan# 550
Delta R.T. 0.03 min
Lab File: VD059474.D
Acq: 28 Jun 2018 20:39

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 1777
Ion Ratio Lower Upper
56 100
69 125.0 22.9 34.3#
84 103.1 67.3 100.9#

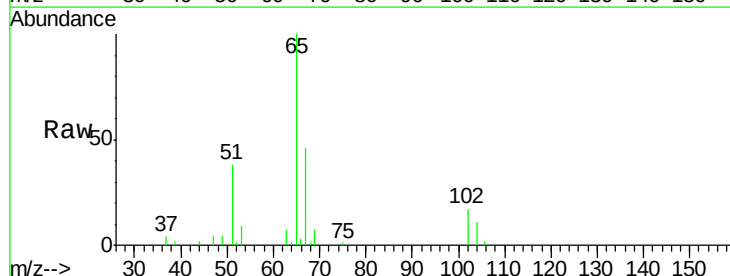


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

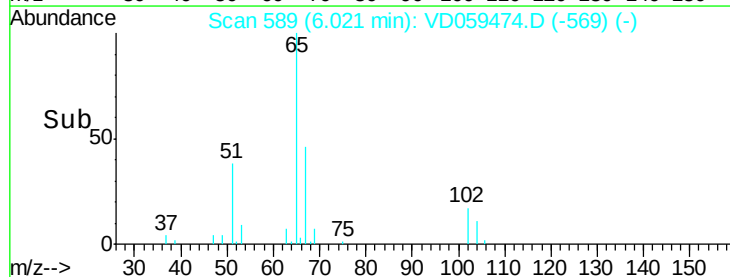
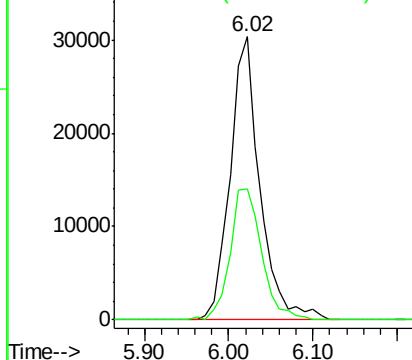


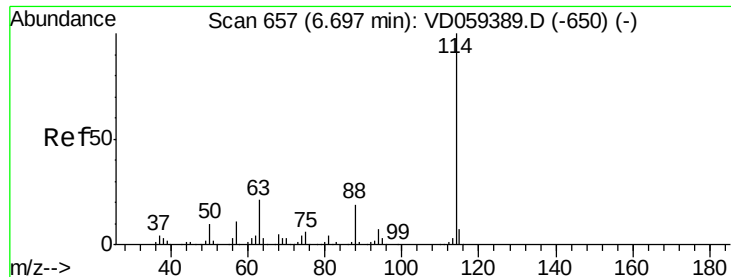
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.02 min Scan# 589
Delta R.T. -0.01 min
Lab File: VD059474.D
Acq: 28 Jun 2018 20:39

Tgt Ion: 65 Resp: 74461
Ion Ratio Lower Upper
65 100
67 46.2 0.0 93.8



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: 6.69 min Scan# 657

Delta R.T. -0.01 min

Lab File: VD059474.D

Acq: 28 Jun 2018 20:39

Instrument :

MSVOA_D

ClientSampleId :

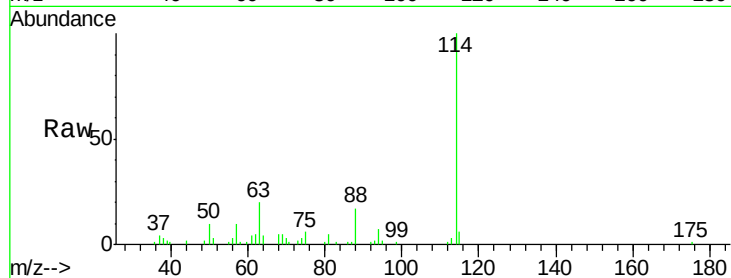
Tot Ion:114 Resp: 148000

Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.4

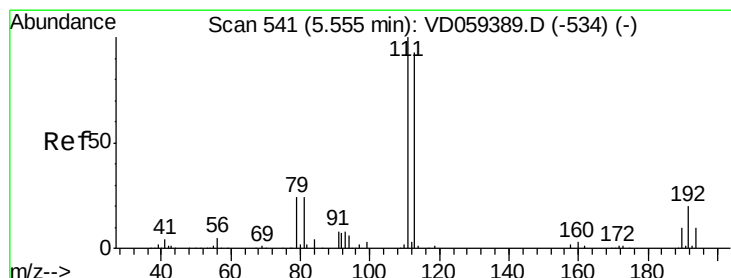
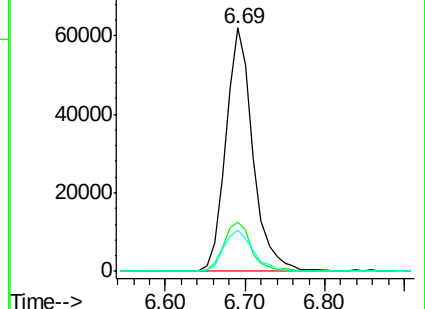
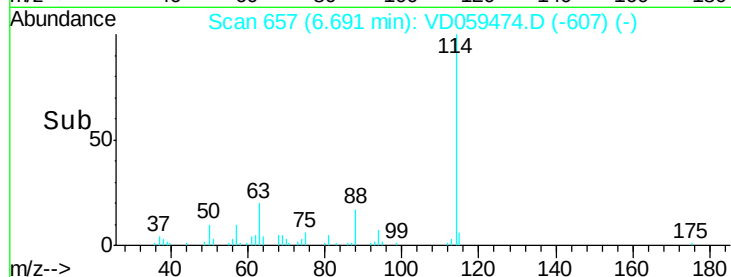
88 17.1 0.0 38.0



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



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.55 min Scan# 541

Delta R.T. -0.01 min

Lab File: VD059474.D

Acq: 28 Jun 2018 20:39

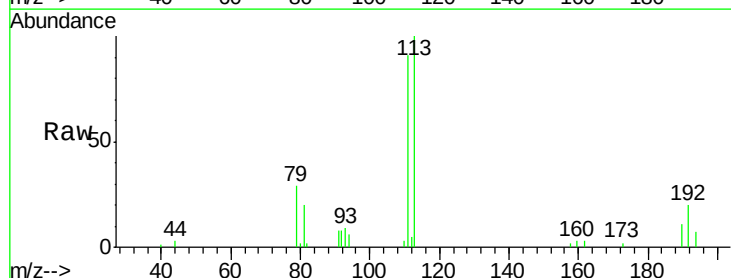
Tgt Ion:113 Resp: 62415

Ion Ratio Lower Upper

113 100

111 90.6 85.7 128.5

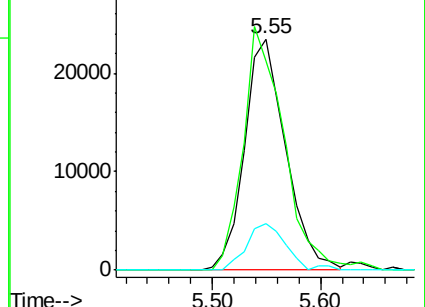
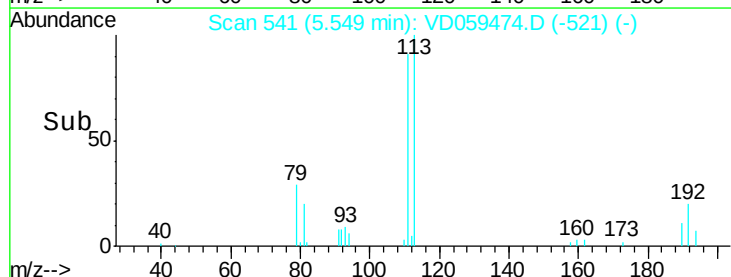
192 20.2 16.9 25.3

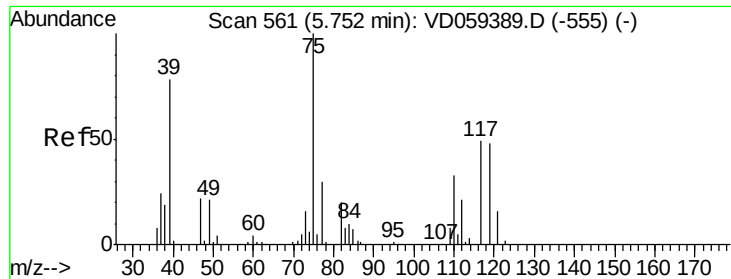


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 6.760 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.11 min

Lab File: VD059474.D

Acq: 28 Jun 2018 20:39

Instrument :

MSVOA_D

ClientSampled :

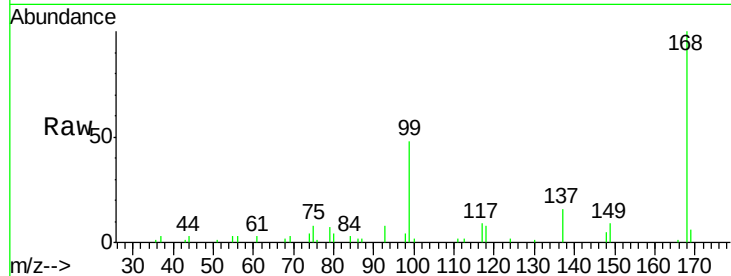
Tot Ion: 75 Resp: 9076

Ion Ratio Lower Upper

75 100

110 0.0 16.1 48.2#

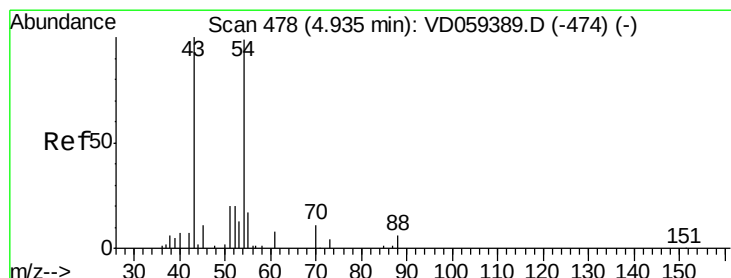
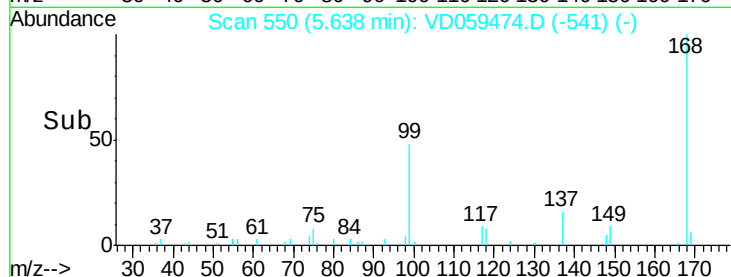
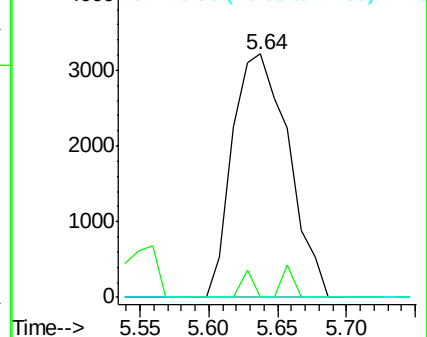
77 0.0 23.4 35.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 19.803 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.10 min

Lab File: VD059474.D

Acq: 28 Jun 2018 20:39

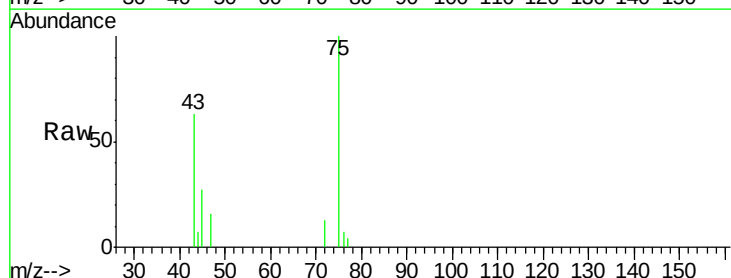
Tgt Ion: 43 Resp: 16191

Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.8#

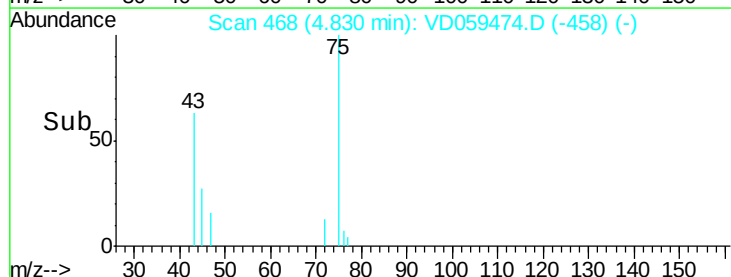
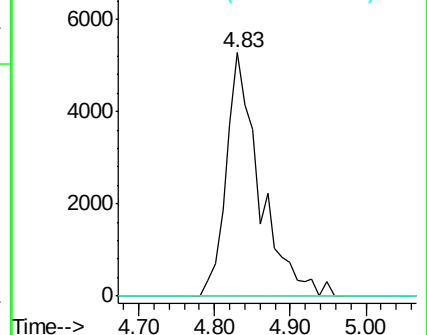
70 0.0 6.1 9.1#

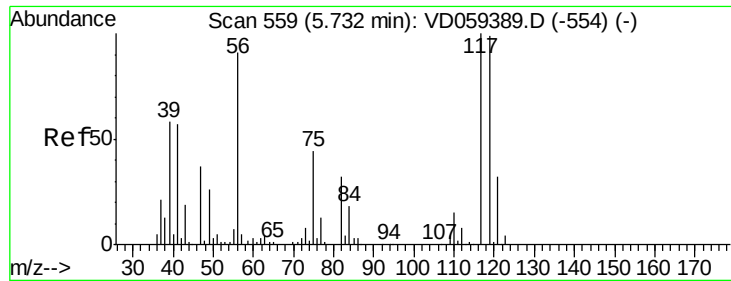


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 6.211 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.09 min

Lab File: VD059474.D

Acq: 28 Jun 2018 20:39

Instrument :

MSVOA_D

ClientSampleId :

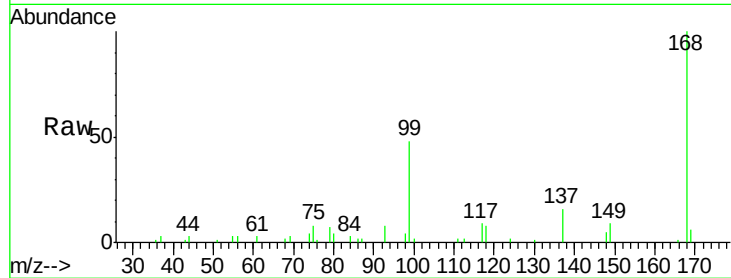
Tot Ion:117 Resp: 8598

Ion Ratio Lower Upper

117 100

119 0.0 76.6 115.0#

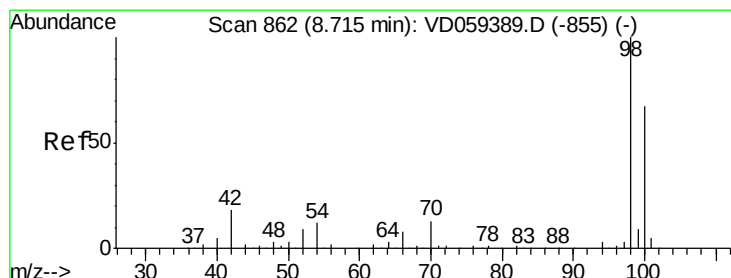
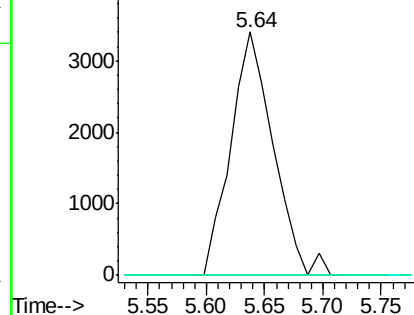
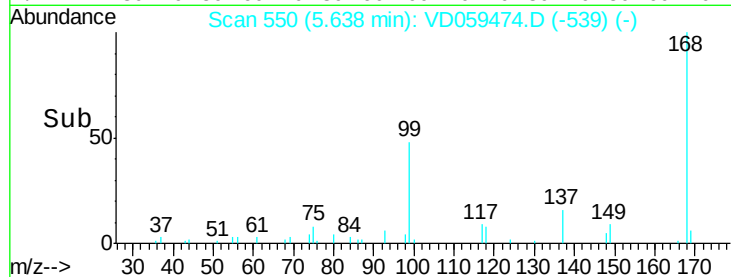
121 0.0 25.0 37.4#



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: 8.71 min Scan# 862

Delta R.T. -0.01 min

Lab File: VD059474.D

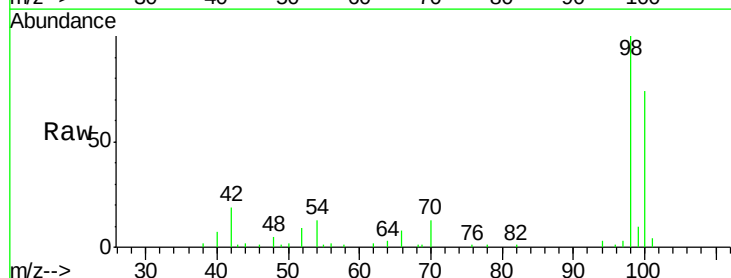
Acq: 28 Jun 2018 20:39

Tgt Ion: 98 Resp: 105557

Ion Ratio Lower Upper

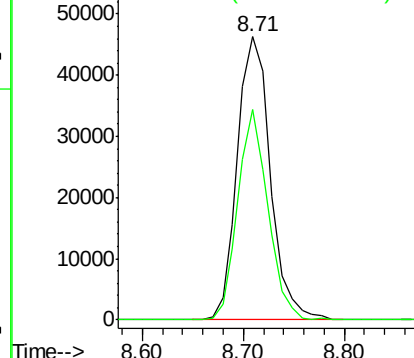
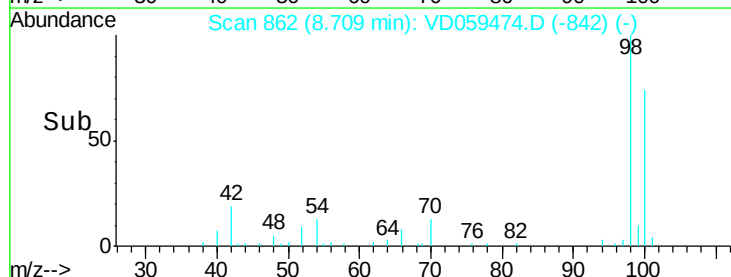
98 100

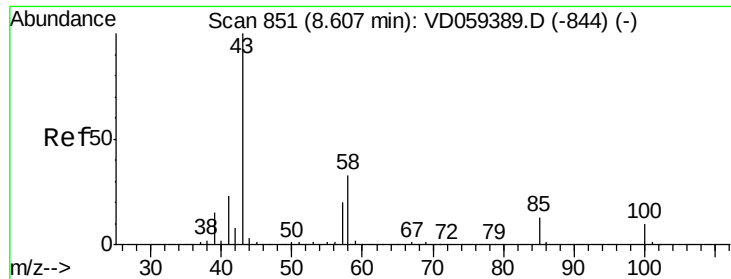
100 74.3 54.4 81.6



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.619 ug/l

RT: 8.59 min Scan# 850

Delta R.T. -0.02 min

Lab File: VD059474.D

Acq: 28 Jun 2018 20:39

Instrument :

MSVOA_D

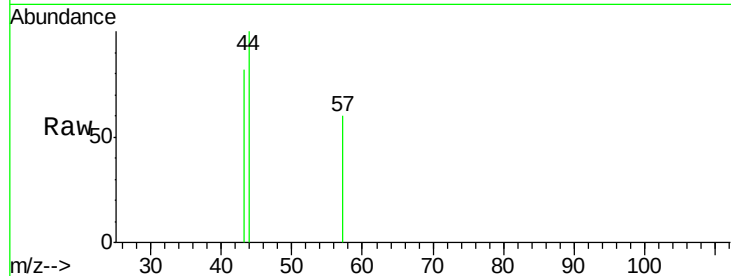
ClientSampleId :

Tot Ion: 43 Resp: 1108

Ion Ratio Lower Upper

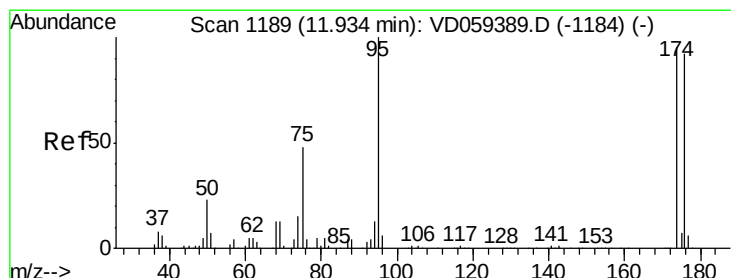
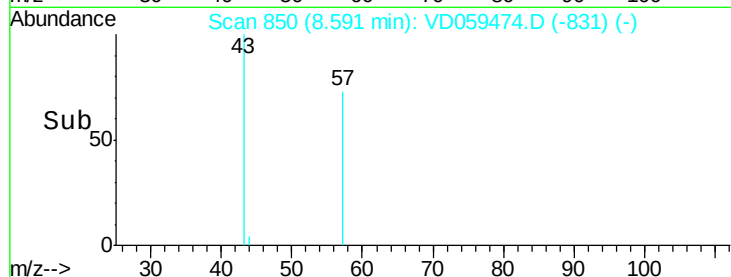
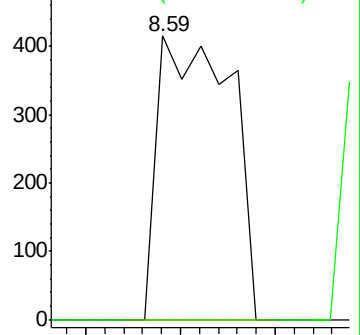
43 100

58 0.0 26.3 39.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. -0.01 min

Lab File: VD059474.D

Acq: 28 Jun 2018 20:39

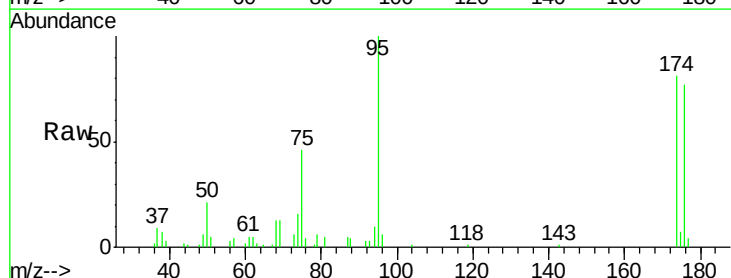
Tgt Ion: 95 Resp: 57867

Ion Ratio Lower Upper

95 100

174 81.2 0.0 190.4

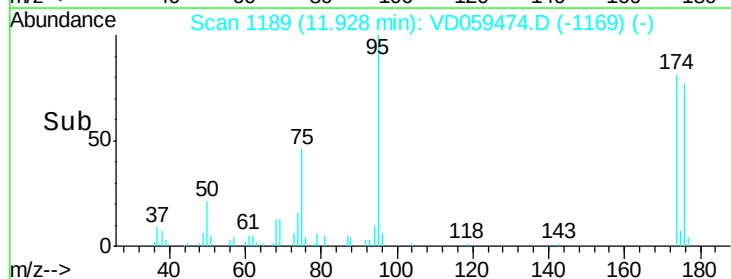
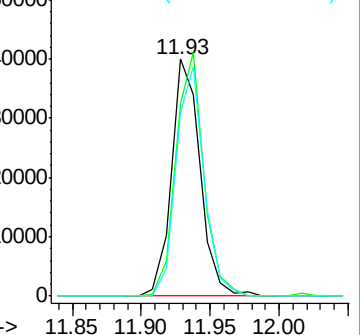
176 77.2 0.0 183.2

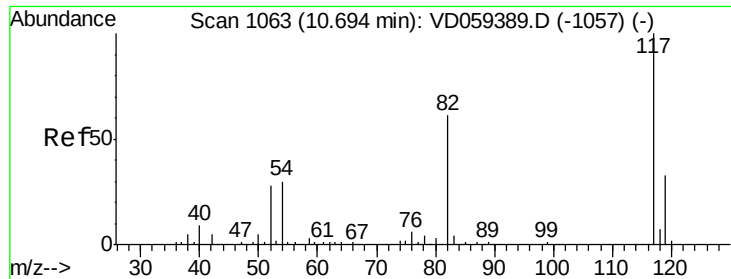


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.69 min Scan# 1063

Delta R.T. -0.01 min

Lab File: VD059474.D

Acq: 28 Jun 2018 20:39

Instrument :

MSVOA_D

ClientSampled :

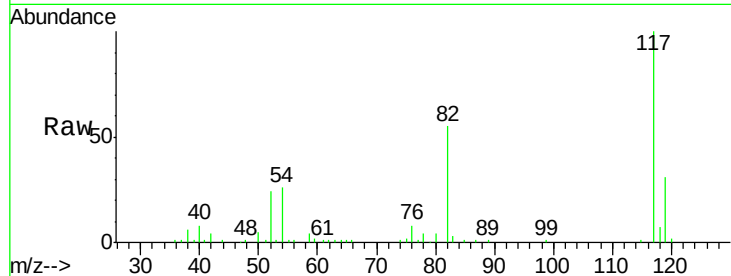
Tot Ion:117 Resp: 142793

Ion Ratio Lower Upper

117 100

82 55.4 49.0 73.6

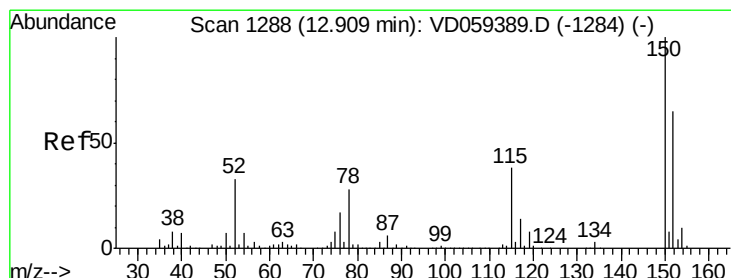
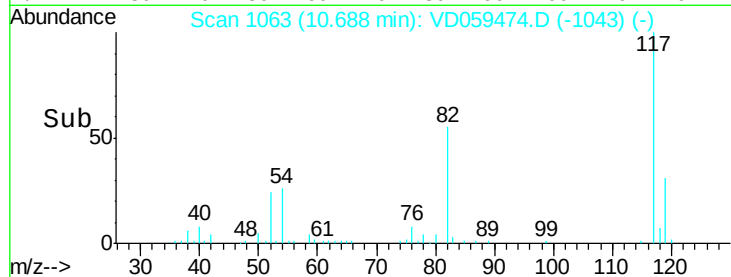
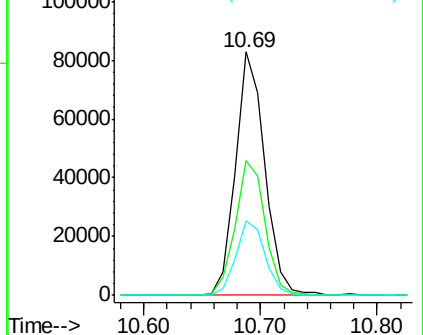
119 30.7 26.2 39.4



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: 12.91 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VD059474.D

Acq: 28 Jun 2018 20:39

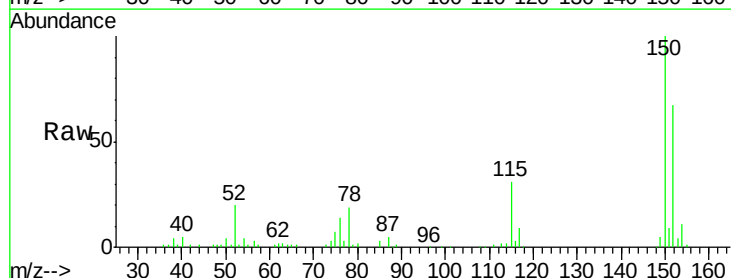
Tgt Ion:152 Resp: 74201

Ion Ratio Lower Upper

152 100

115 45.8 29.4 88.3

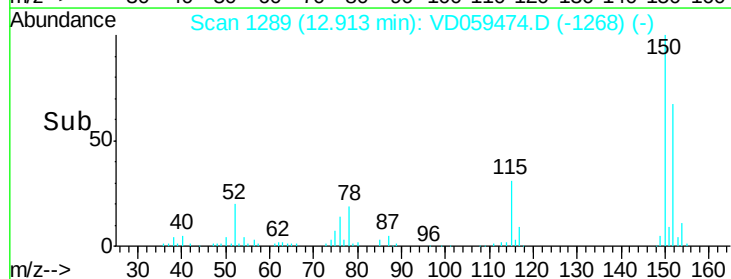
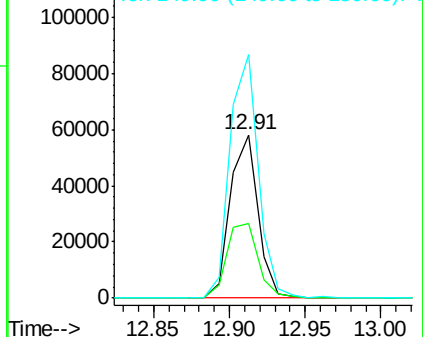
150 149.1 0.0 308.2

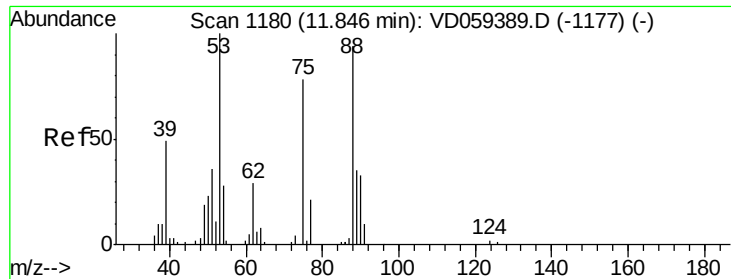


Abundance Ion 151.90 (151.60 to 152.60): V

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: 117.032 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.08 min

Lab File: VD059474.D

Acq: 28 Jun 2018 20:39

Instrument :

MSVOA_D

ClientSampleId :

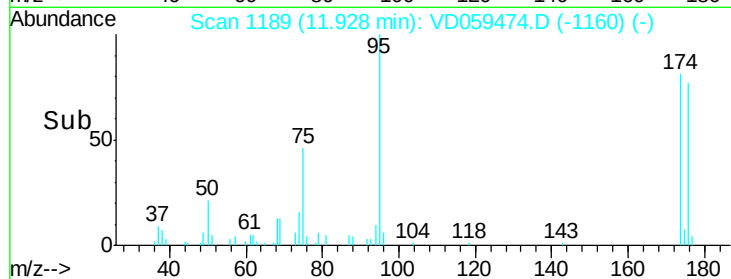
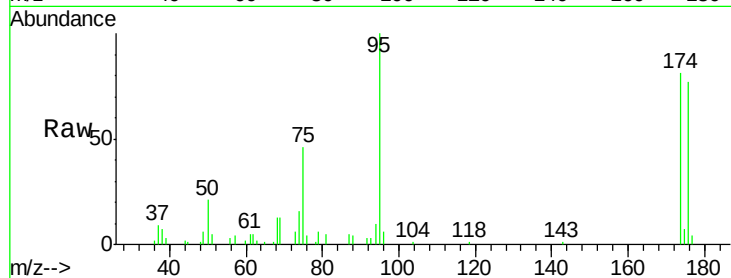
Tot Ion: 75 Resp: 27225

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

