

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062618\
 Data File : VD059431.D
 Acq On : 26 Jun 2018 18:45
 Operator : VA/AP
 Sample : J3676-09
 Misc : 4.25g/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 27 05:52:54 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	5.62	168	231792	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	6.67	114	324860	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.68	117	225436	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.90	152	78951	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	165825	69.96	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	139.92%	
35) Dibromofluoromethane	5.53	113	148045	55.95	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	111.90%	
50) Toluene-d8	8.69	98	200699	32.44	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	64.88%	
62) 4-Bromofluorobenzene	11.92	95	84344	32.78	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	65.56%	

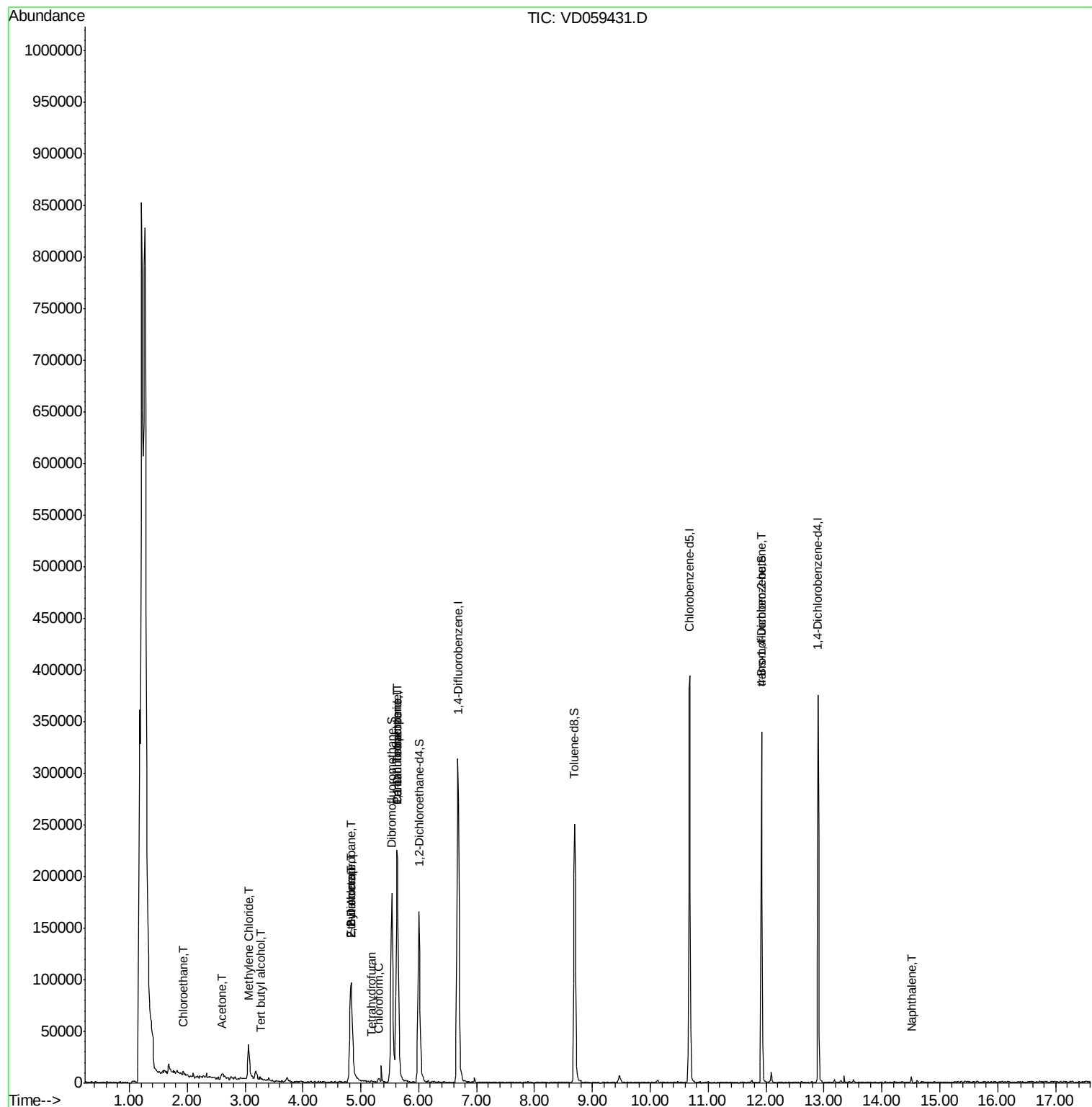
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.78	94	223	Below Cal	#	4
6) Chloroethane	1.94	64	220	2.283	ug/l #	41
11) Tert butyl alcohol	3.26	59	733	8.939	ug/l #	72
16) Acetone	2.60	43	12494	41.763	ug/l #	90
18) Methyl Acetate	2.92	43	2266	Below Cal	#	66
20) Methylene Chloride	3.06	84	16955	18.883	ug/l	88
25) 2-Butanone	4.83	43	8451	13.485	ug/l #	57
26) 2,2-Dichloropropane	4.83	77	6420	2.200	ug/l #	55
29) Tetrahydrofuran	5.17	42	894	2.608	ug/l #	37
30) Chloroform	5.31	83	4208	1.026	ug/l	87
31) Cyclohexane	5.61	56	4601	Below Cal	#	1
36) 1,1-Dichloropropene	5.62	75	20469	6.946	ug/l #	52
37) Ethyl Acetate	4.83	43	8451	4.709	ug/l #	22
38) Carbon Tetrachloride	5.63	117	18702	6.155	ug/l #	12
81) trans-1,4-Dichloro-2-buten	11.92	75	39325	158.875	ug/l #	1
95) Naphthalene	14.51	128	3757	1.491	ug/l #	80

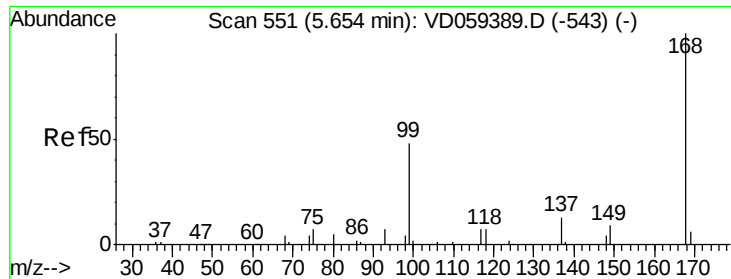
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.62 min Scan# 548

Delta R.T. -0.03 min

Lab File: VD059431.D

Acq: 26 Jun 2018 18:45

Instrument :

MSVOA_D

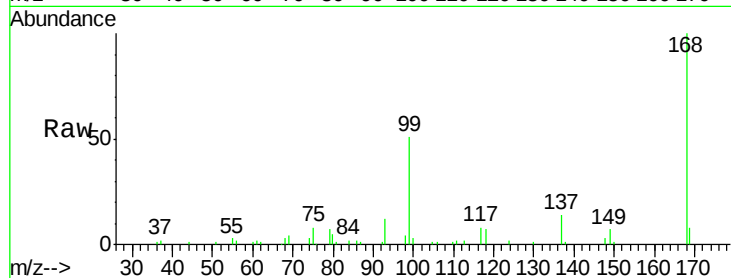
ClientSampleId :

Tot Ion:168 Resp: 231792

Ion Ratio Lower Upper

168 100

99 51.4 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.62

80000

60000

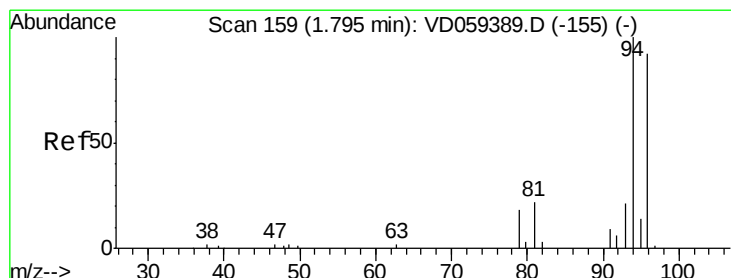
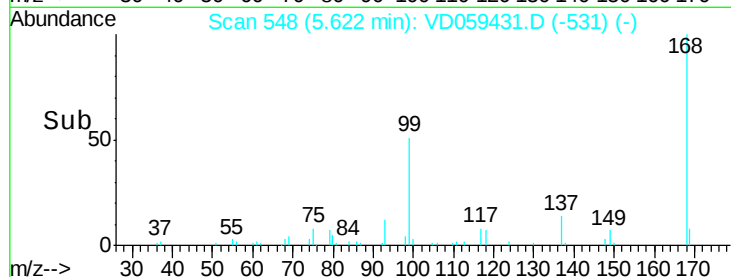
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.78 min Scan# 158

Delta R.T. -0.01 min

Lab File: VD059431.D

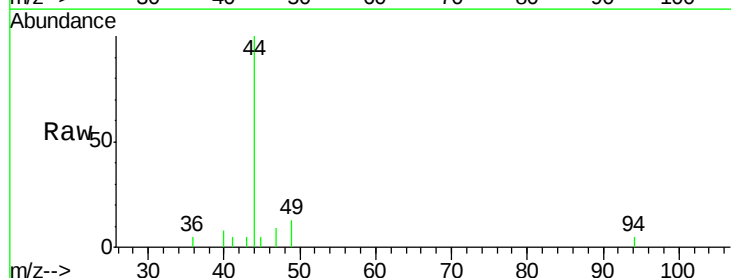
Acq: 26 Jun 2018 18:45

Tgt Ion: 94 Resp: 223

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

1.78

500

400

300

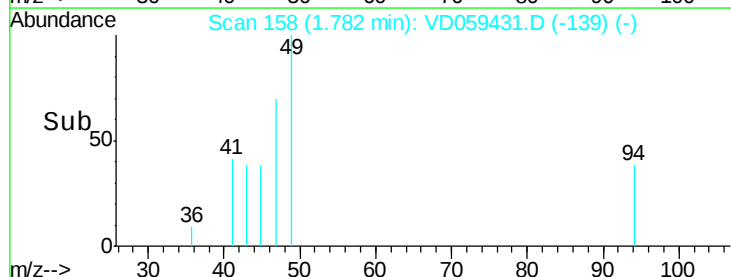
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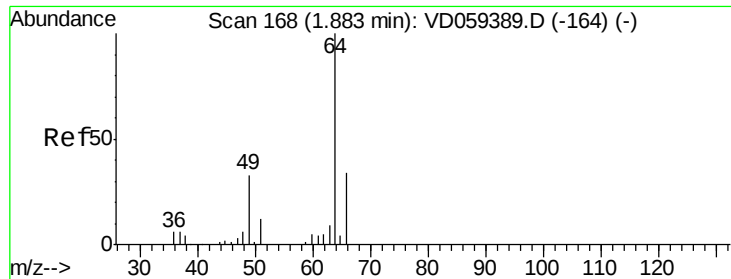
100

0

Time-->

1.76 1.78 1.80





#6

Chloroethane

Concen: 2.283 ug/l

RT: 1.94 min Scan# 174

Delta R.T. 0.06 min

Lab File: VD059431.D

Acq: 26 Jun 2018 18:45

Instrument :

MSVOA_D

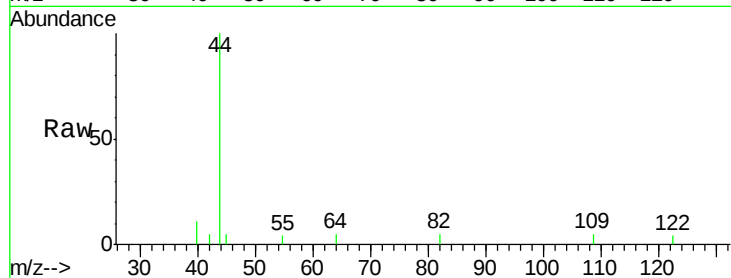
ClientSampleId :

Tot Ion: 64 Resp: 220

Ion Ratio Lower Upper

64 100

66 0.0 27.1 40.7#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

1.94

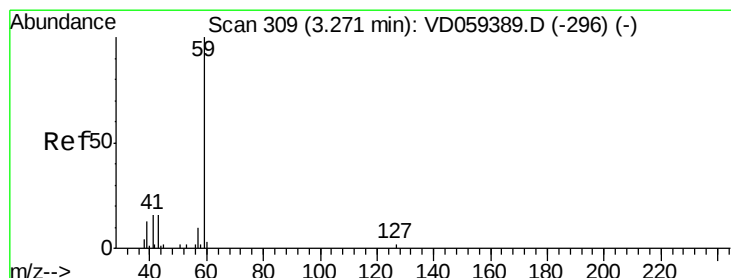
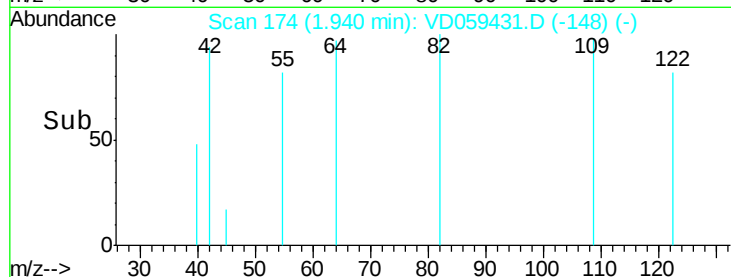
300

200

100

0

Time-->



#11

Tert butyl alcohol

Concen: 8.939 ug/l

RT: 3.26 min Scan# 308

Delta R.T. -0.01 min

Lab File: VD059431.D

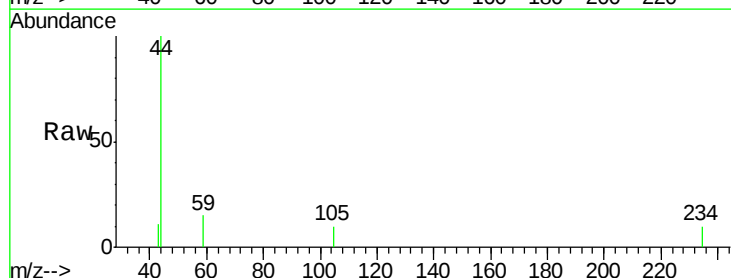
Acq: 26 Jun 2018 18:45

Tgt Ion: 59 Resp: 733

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.26

500

400

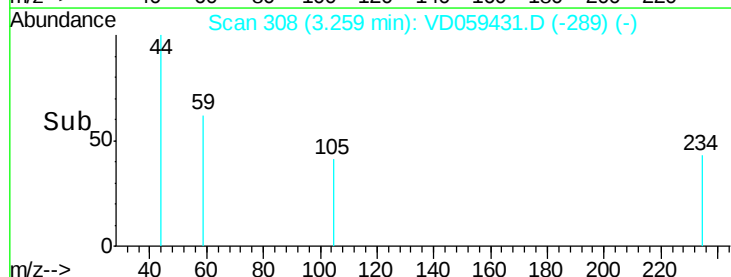
300

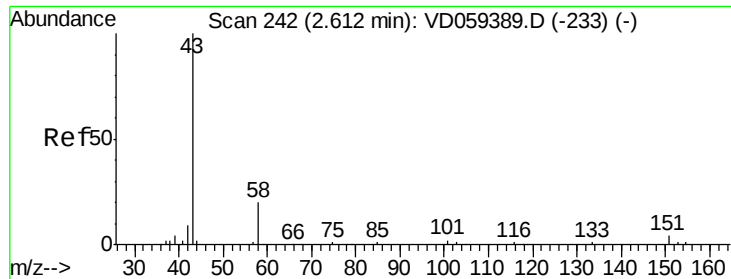
200

100

0

Time-->





#16

Acetone

Concen: 41.763 ug/l

RT: 2.60 min Scan# 241

Delta R.T. -0.01 min

Lab File: VD059431.D

Acq: 26 Jun 2018 18:45

Instrument :

MSVOA_D

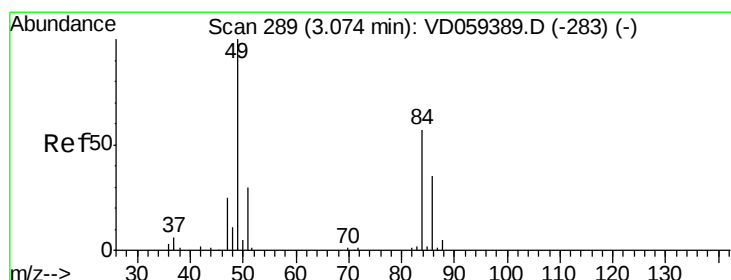
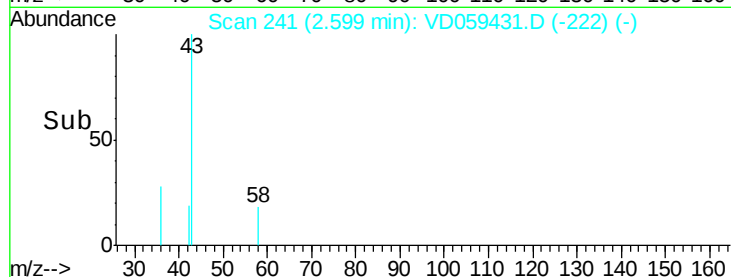
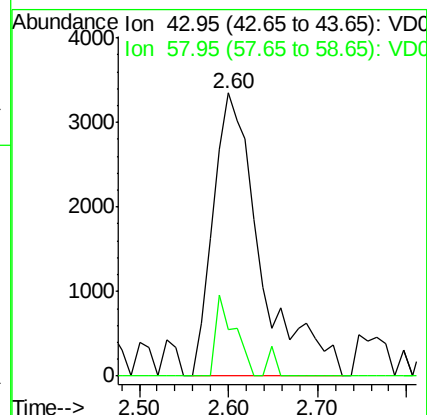
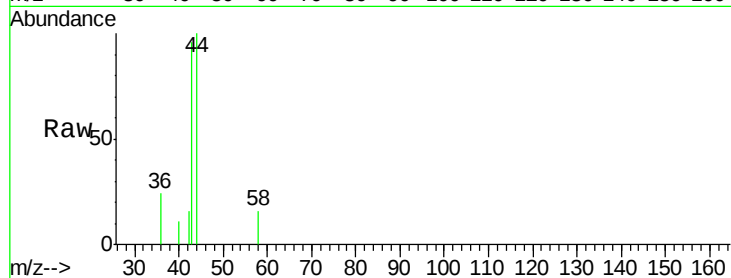
ClientSampleId :

Tot Ion: 43 Resp: 12494

Ion Ratio Lower Upper

43 100

58 16.4 16.8 25.2#



#20

Methylene Chloride

Concen: 18.883 ug/l

RT: 3.06 min Scan# 288

Delta R.T. -0.01 min

Lab File: VD059431.D

Acq: 26 Jun 2018 18:45

Tgt Ion: 84 Resp: 16955

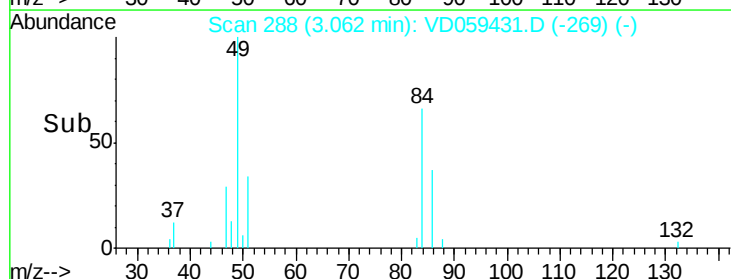
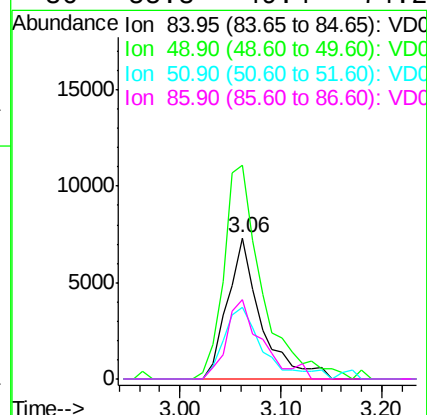
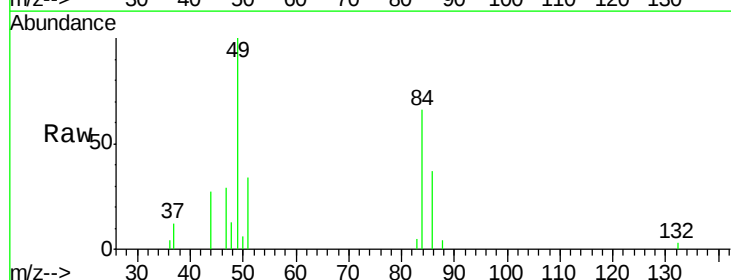
Ion Ratio Lower Upper

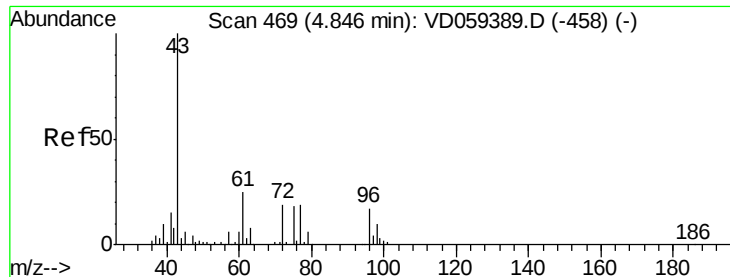
84 100

49 151.4 140.3 210.5

51 51.0 41.6 62.4

86 55.8 49.4 74.2





#25

2-Butanone

Concen: 13.485 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD059431.D

Acq: 26 Jun 2018 18:45

Instrument :

MSVOA_D

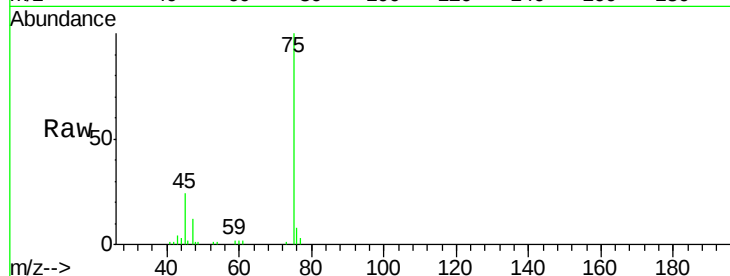
ClientSampleId :

Tot Ion: 43 Resp: 8451

Ion Ratio Lower Upper

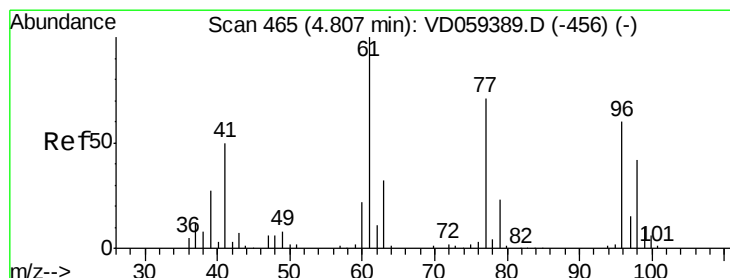
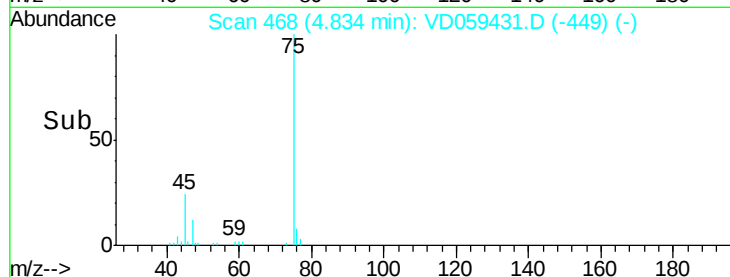
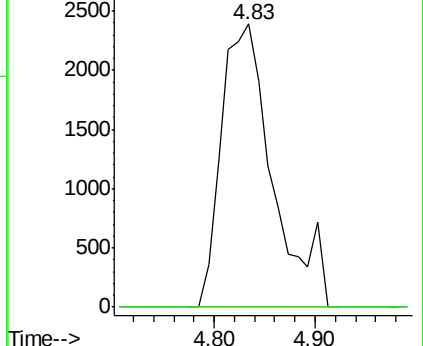
43 100

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



#26

2,2-Dichloropropane

Concen: 2.200 ug/l

RT: 4.83 min Scan# 468

Delta R.T. 0.03 min

Lab File: VD059431.D

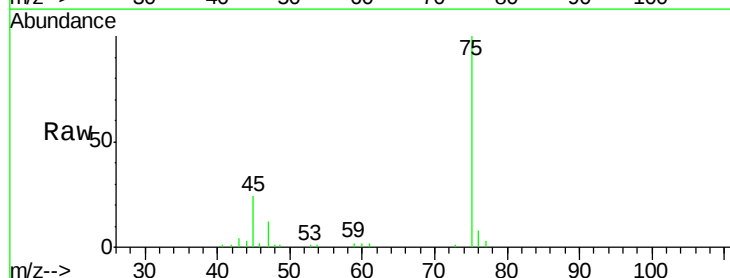
Acq: 26 Jun 2018 18:45

Tgt Ion: 77 Resp: 6420

Ion Ratio Lower Upper

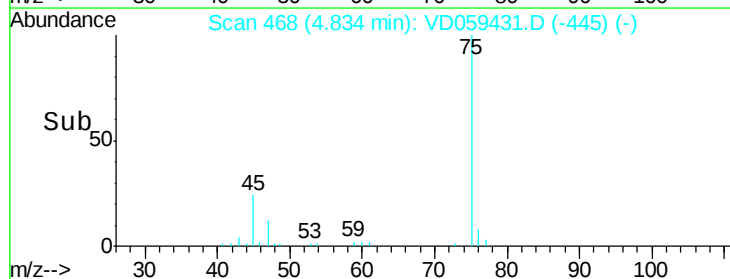
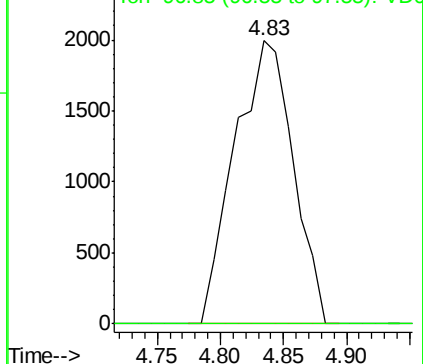
77 100

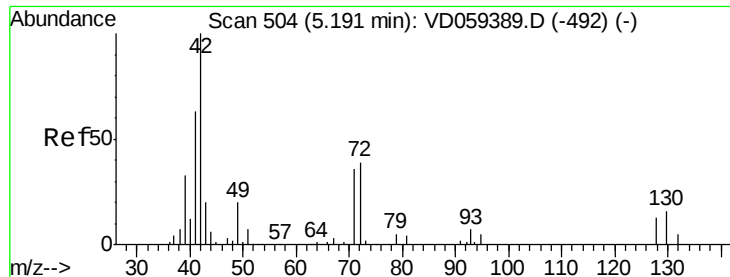
97 0.0 10.7 32.1#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

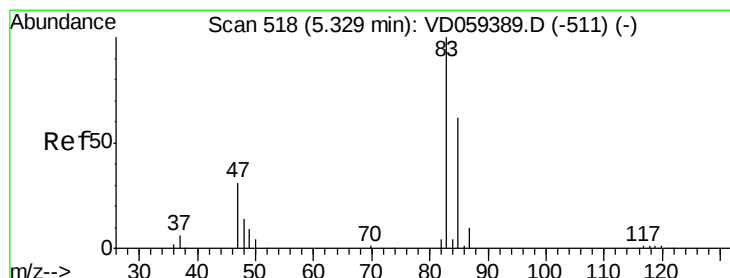
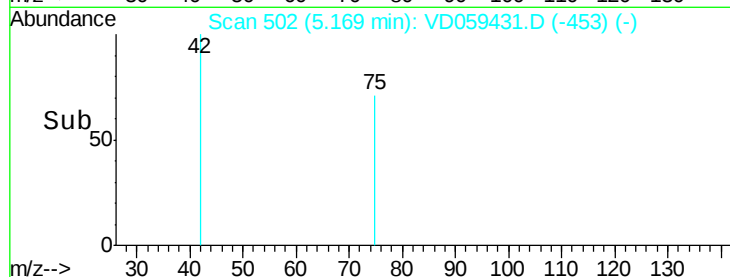
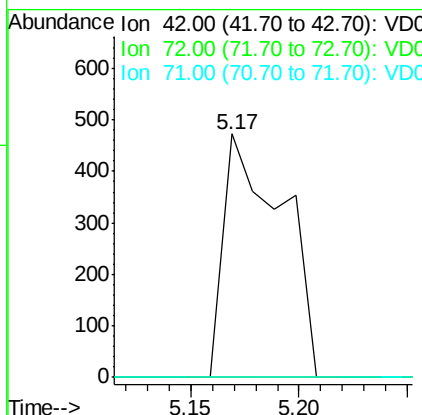
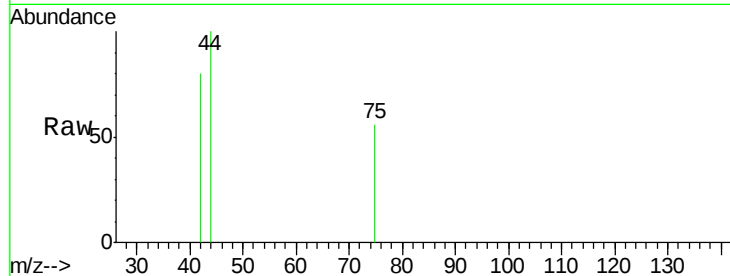




#29
Tetrahydrofuran
Concen: 2.608 ug/l
RT: 5.17 min Scan# 502
Delta R.T. -0.02 min
Lab File: VD059431.D
Acq: 26 Jun 2018 18:45

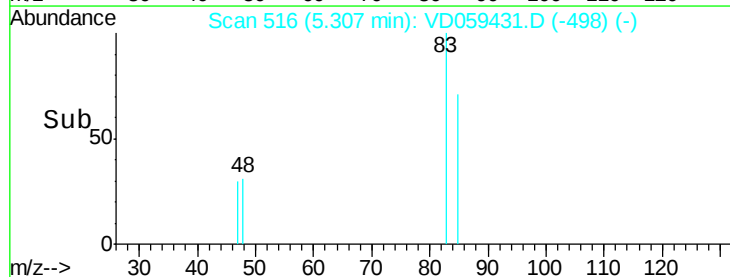
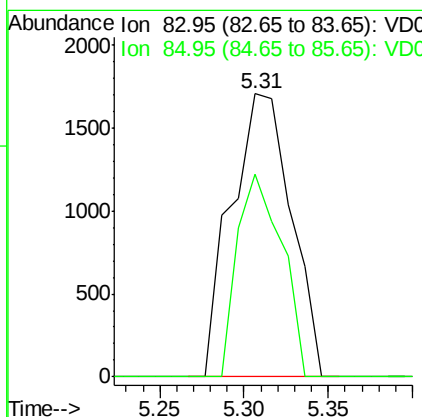
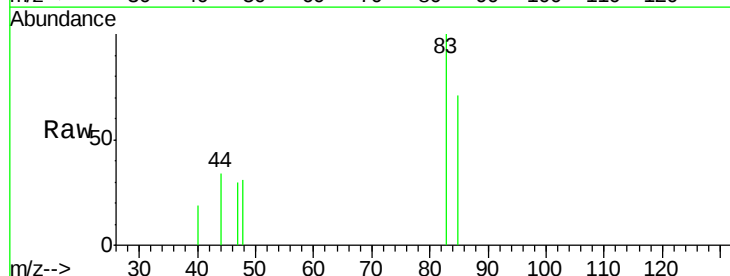
Instrument :
MSVOA_D
ClientSampled :

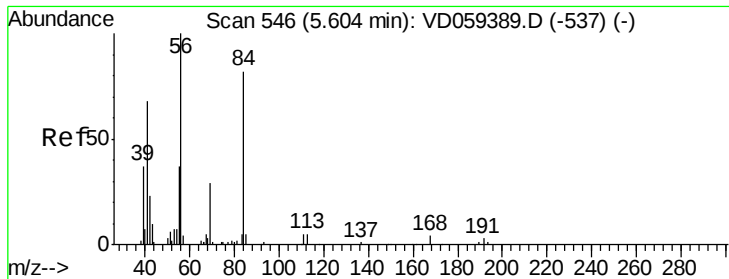
Tot Ion: 42 Resp: 894
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.2#
71 0.0 29.7 44.5#



#30
Chloroform
Concen: 1.026 ug/l
RT: 5.31 min Scan# 516
Delta R.T. -0.02 min
Lab File: VD059431.D
Acq: 26 Jun 2018 18:45

Tgt Ion: 83 Resp: 4208
Ion Ratio Lower Upper
83 100
85 71.4 49.3 73.9





#31

Cyclohexane

Concen: Below Cal

RT: 5.61 min Scan# 547

Delta R.T. 0.01 min

Lab File: VD059431.D

Acq: 26 Jun 2018 18:45

Instrument :

MSVOA_D

ClientSampleID :

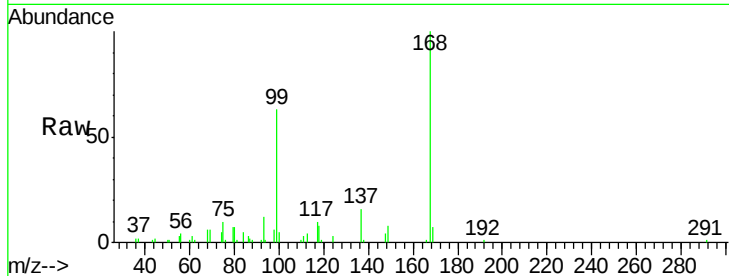
Tot Ion: 56 Resp: 4601

Ion Ratio Lower Upper

56 100

69 154.4 22.9 34.3#

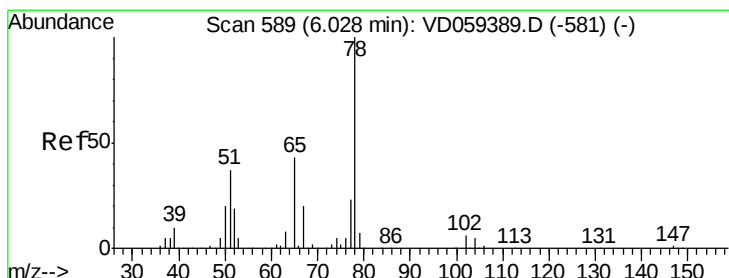
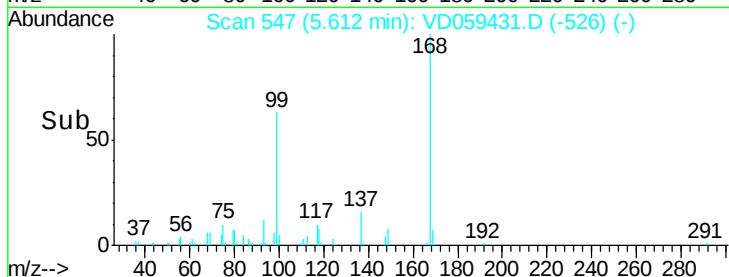
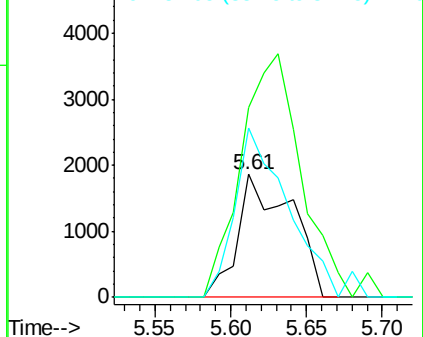
84 138.0 67.3 100.9#



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: 6.01 min Scan# 587

Delta R.T. -0.02 min

Lab File: VD059431.D

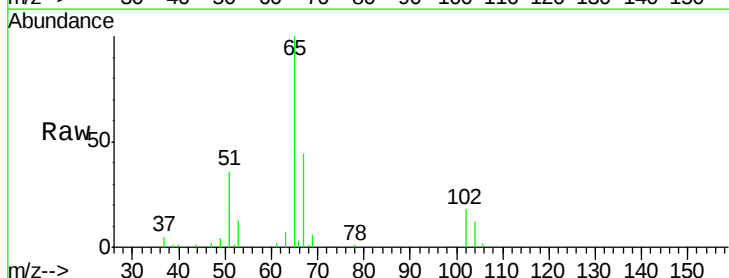
Acq: 26 Jun 2018 18:45

Tgt Ion: 65 Resp: 165825

Ion Ratio Lower Upper

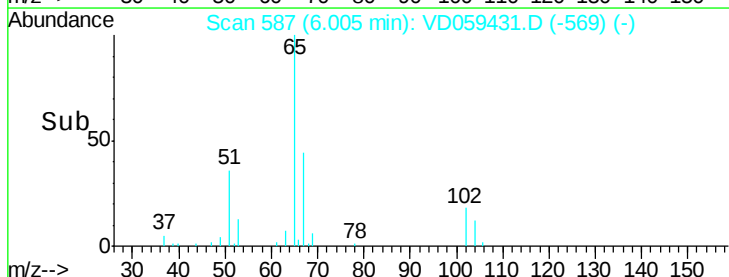
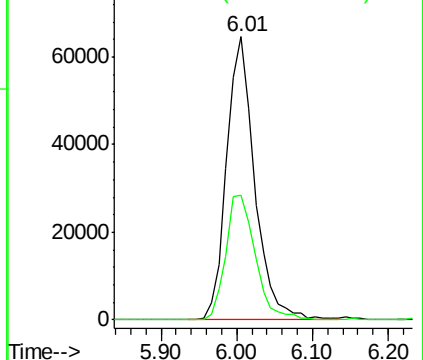
65 100

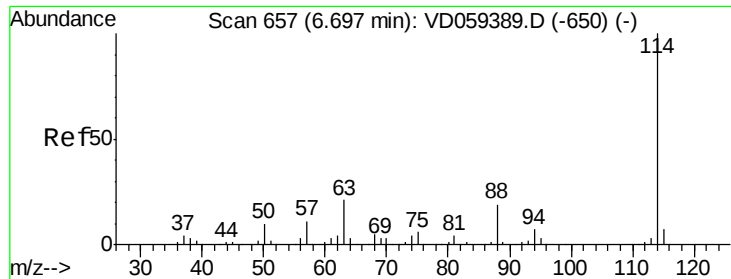
67 44.0 0.0 93.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

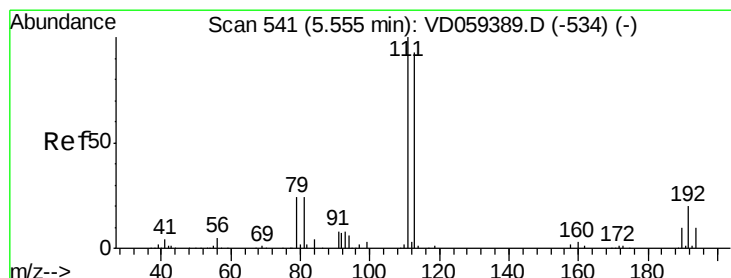
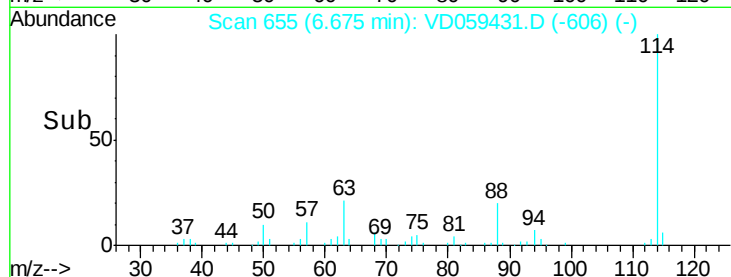
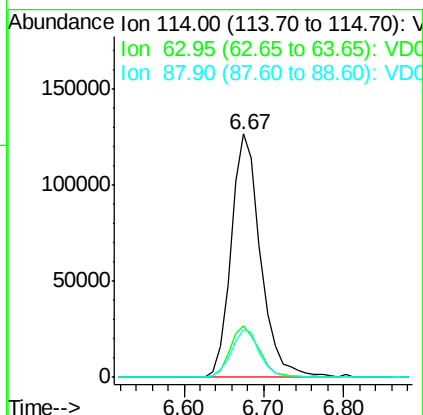
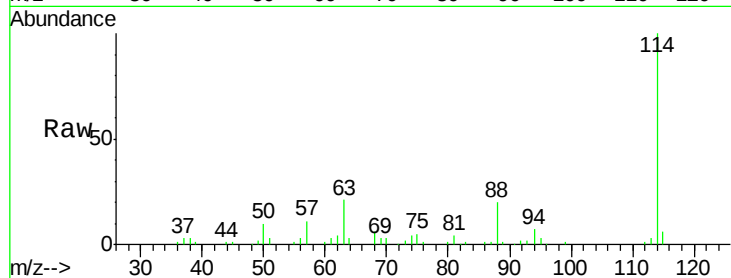




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.67 min Scan# 655
 Delta R.T. -0.02 min
 Lab File: VD059431.D
 Acq: 26 Jun 2018 18:45

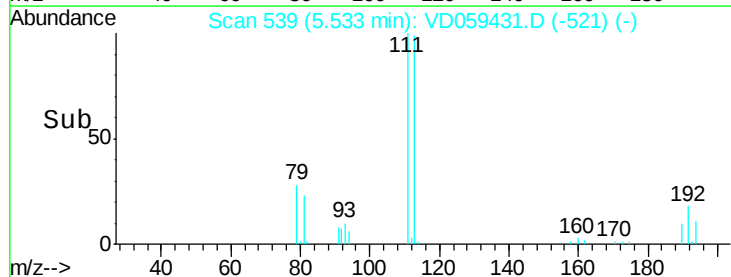
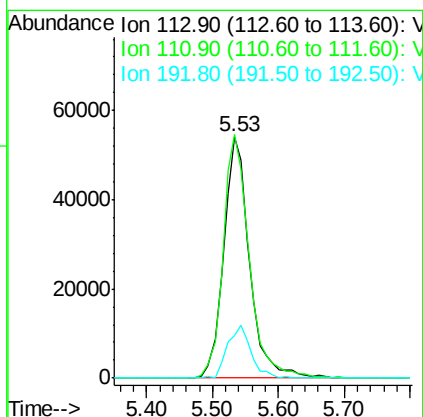
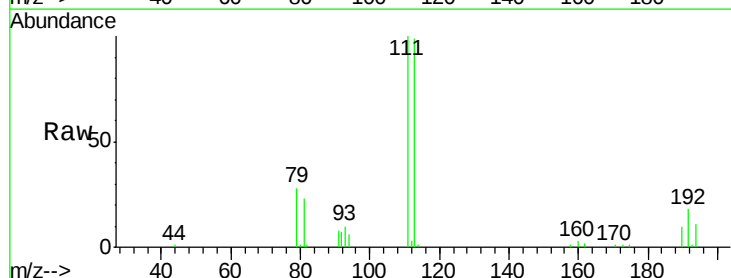
Instrument :
 MSVOA_D
 ClientSampleId :

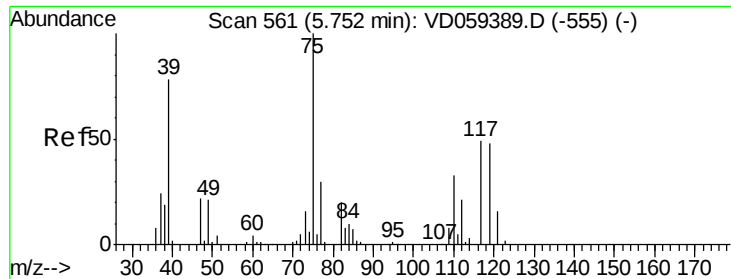
Tot Ion:114 Resp: 324860
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 42.4
 88 19.6 0.0 38.0



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.53 min Scan# 539
 Delta R.T. -0.02 min
 Lab File: VD059431.D
 Acq: 26 Jun 2018 18:45

Tgt Ion:113 Resp: 148045
 Ion Ratio Lower Upper
 113 100
 111 100.7 85.7 128.5
 192 17.8 16.9 25.3

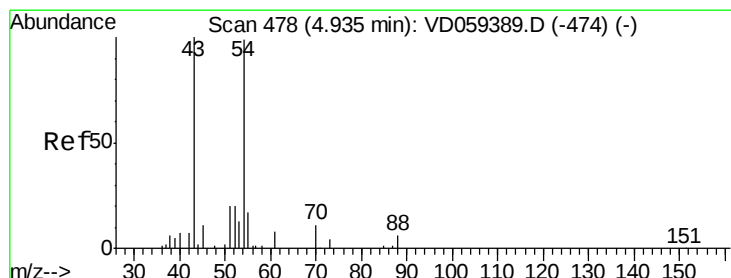
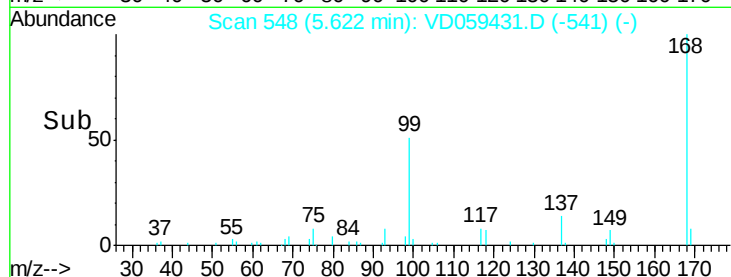
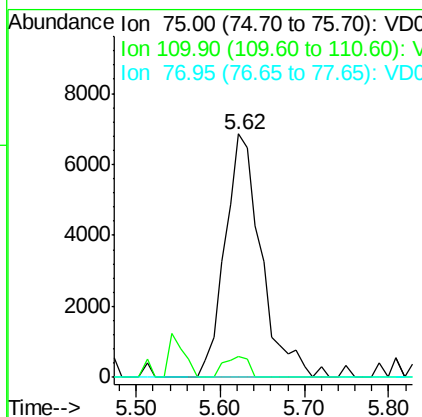
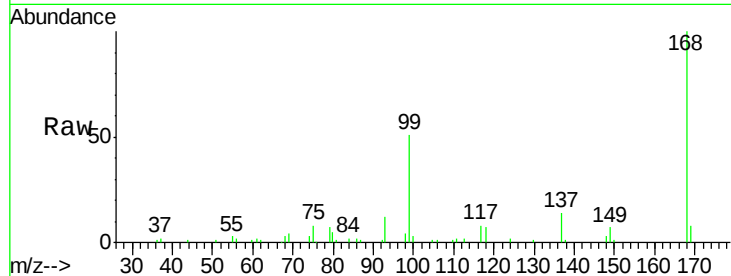




#36
 1,1-Dichloropropene
 Concen: 6.946 ug/l
 RT: 5.62 min Scan# 548
 Delta R.T. -0.13 min
 Lab File: VD059431.D
 Acq: 26 Jun 2018 18:45

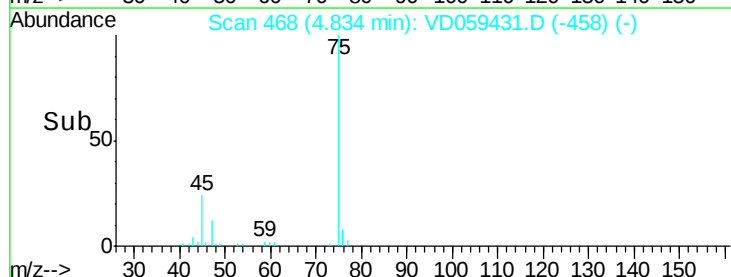
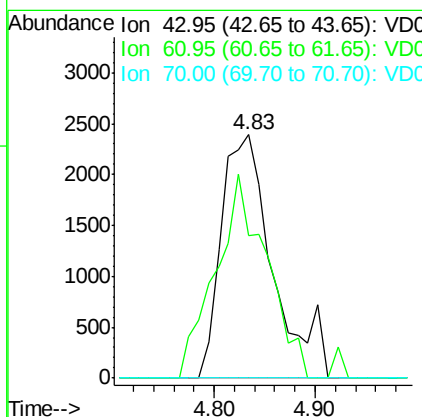
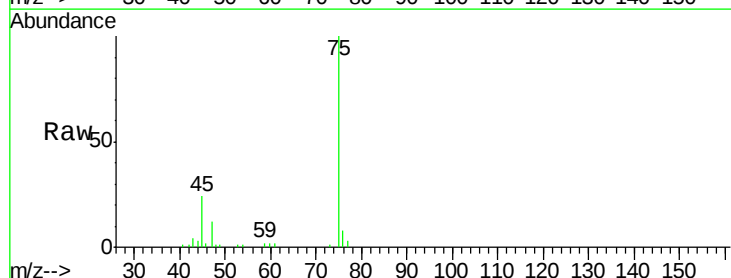
Instrument :
 MSVOA_D
 ClientSampled :

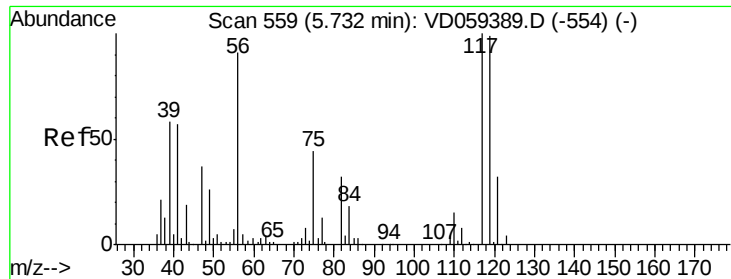
Tot Ion: 75 Resp: 20469
 Ion Ratio Lower Upper
 75 100
 110 8.5 16.1 48.2#
 77 0.0 23.4 35.2#



#37
 Ethyl Acetate
 Concen: 4.709 ug/l
 RT: 4.83 min Scan# 468
 Delta R.T. -0.10 min
 Lab File: VD059431.D
 Acq: 26 Jun 2018 18:45

Tgt Ion: 43 Resp: 8451
 Ion Ratio Lower Upper
 43 100
 61 58.8 11.8 17.8#
 70 0.0 6.1 9.1#





#38

Carbon Tetrachloride

Concen: 6.155 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.10 min

Lab File: VD059431.D

Acq: 26 Jun 2018 18:45

Instrument :

MSVOA_D

ClientSampleId :

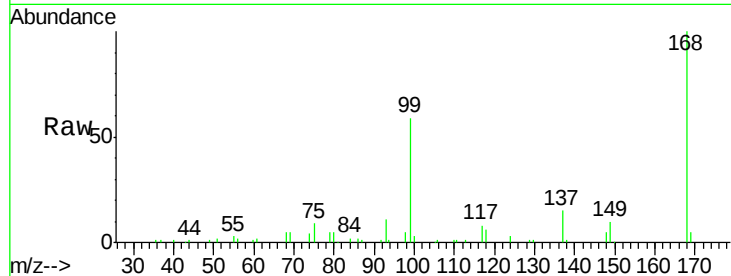
Tot Ion:117 Resp: 18702

Ion Ratio Lower Upper

117 100

119 0.0 76.6 115.0#

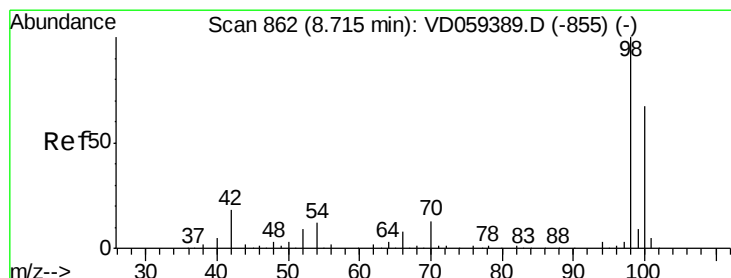
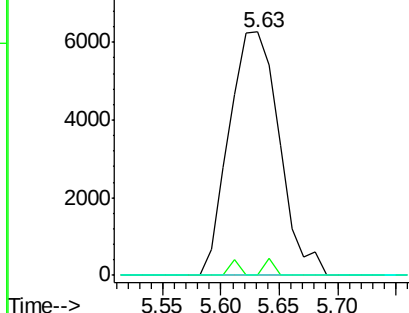
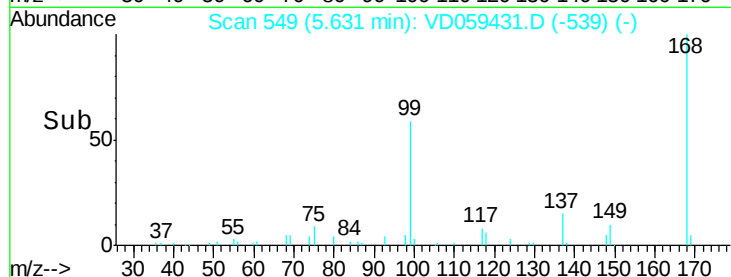
121 0.0 25.0 37.4#



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: 8.69 min Scan# 860

Delta R.T. -0.02 min

Lab File: VD059431.D

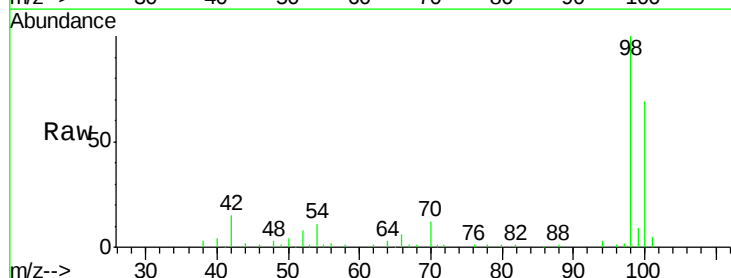
Acq: 26 Jun 2018 18:45

Tgt Ion: 98 Resp: 200699

Ion Ratio Lower Upper

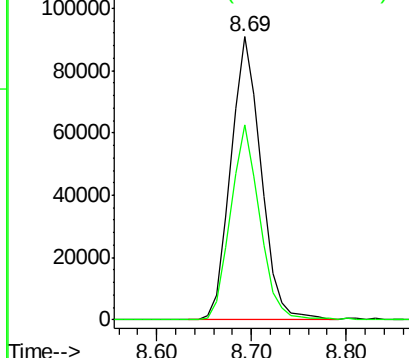
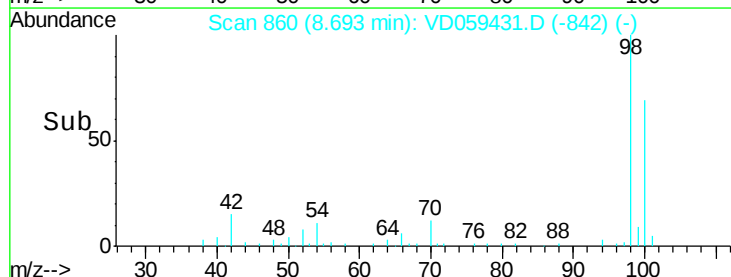
98 100

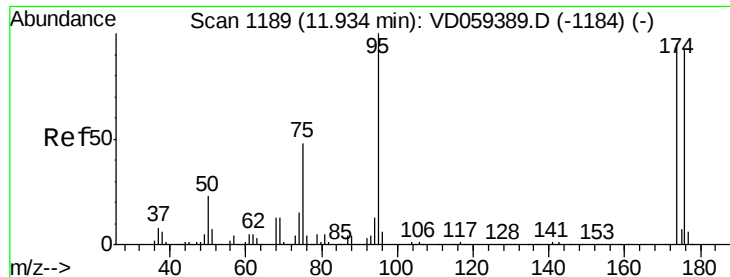
100 69.0 54.4 81.6



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

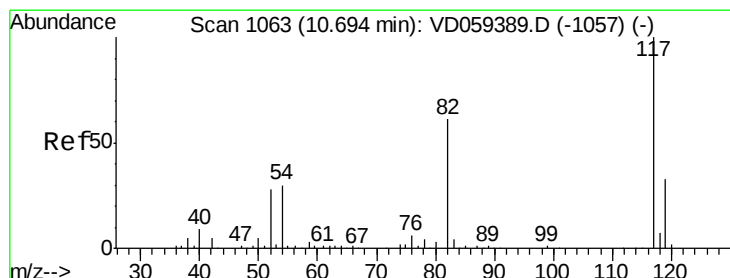
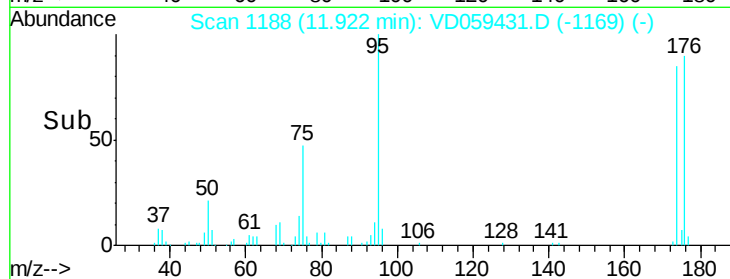
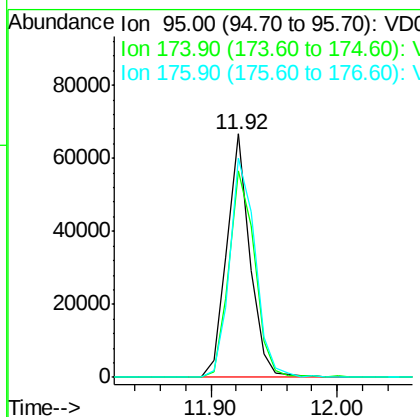
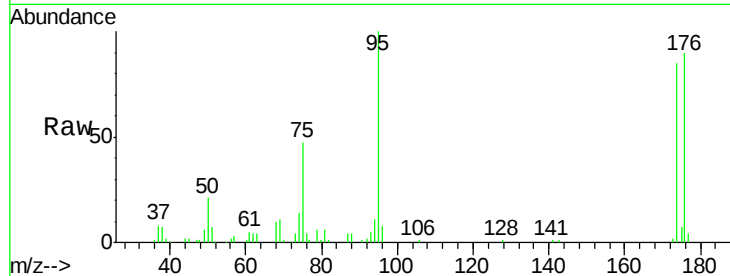




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.92 min Scan# 1188
Delta R.T. -0.01 min
Lab File: VD059431.D
Acq: 26 Jun 2018 18:45

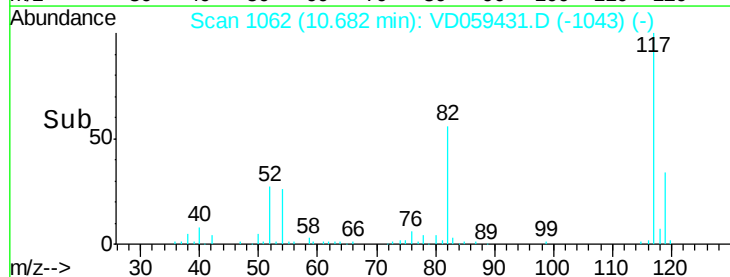
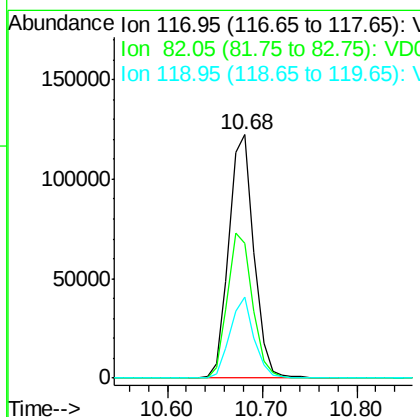
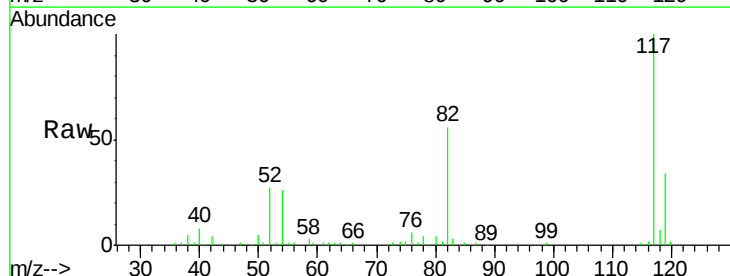
Instrument :
MSVOA_D
ClientSampled :

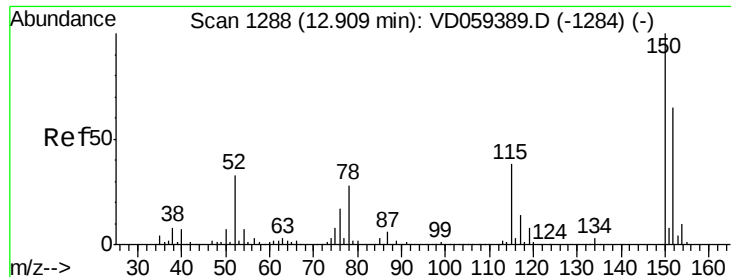
Tot Ion: 95 Resp: 84344
Ion Ratio Lower Upper
95 100
174 84.6 0.0 190.4
176 90.0 0.0 183.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.68 min Scan# 1062
Delta R.T. -0.01 min
Lab File: VD059431.D
Acq: 26 Jun 2018 18:45

Tgt Ion: 117 Resp: 225436
Ion Ratio Lower Upper
117 100
82 55.5 49.0 73.6
119 33.5 26.2 39.4



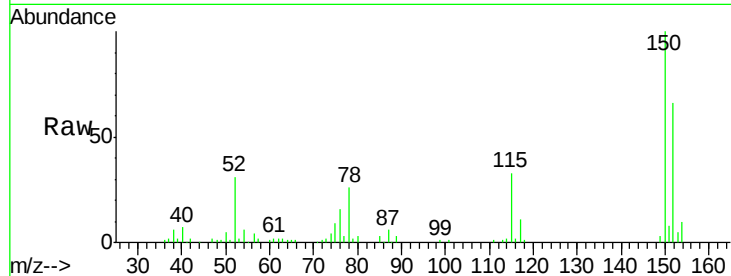


#72

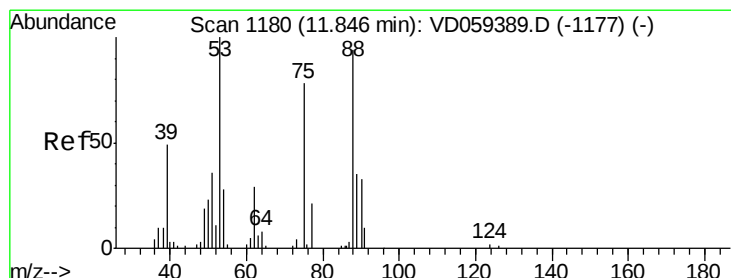
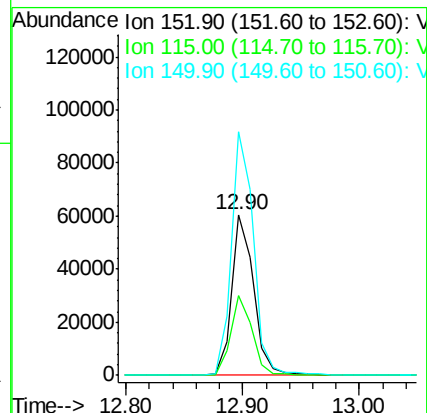
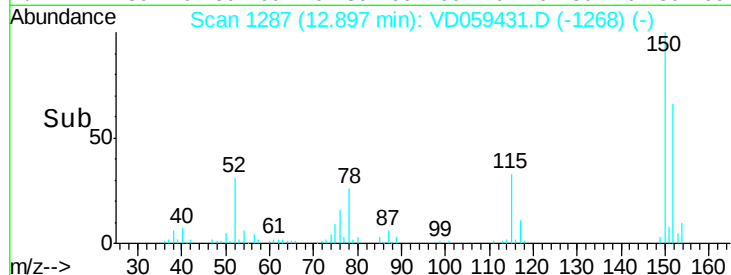
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.90 min Scan# 1287
Delta R.T. -0.01 min
Lab File: VD059431.D
Acq: 26 Jun 2018 18:45

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:152 Resp: 78951
Ion Ratio Lower Upper
152 100
115 49.8 29.4 88.3
150 151.2 0.0 308.2



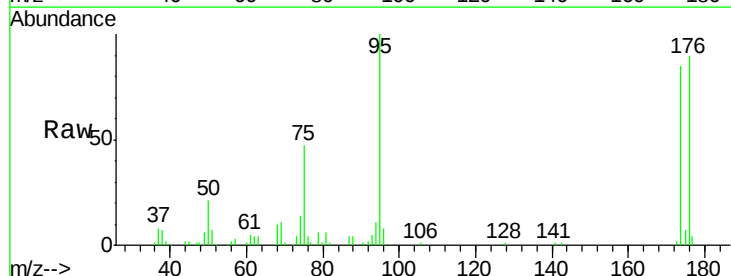
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



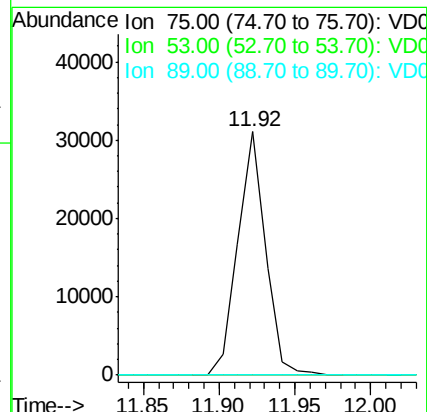
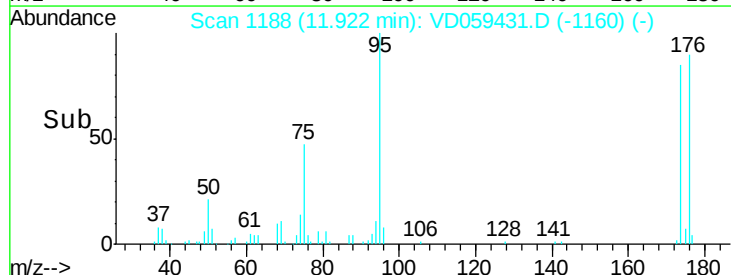
#81

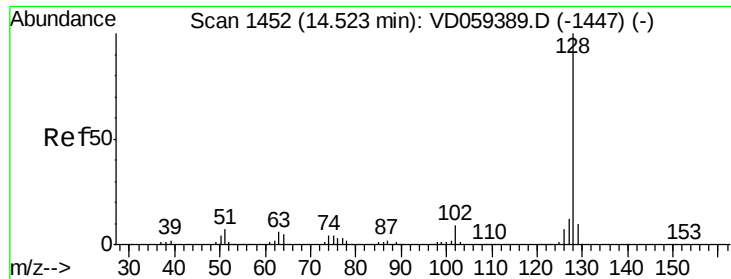
trans-1,4-Dichloro-2-butene
Concen: 158.875 ug/l
RT: 11.92 min Scan# 1188
Delta R.T. 0.08 min
Lab File: VD059431.D
Acq: 26 Jun 2018 18:45

Tgt Ion: 75 Resp: 39325
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: 1.491 ug/l
 RT: 14.51 min Scan# 1451
 Delta R.T. -0.01 min
 Lab File: VD059431.D
 Acq: 26 Jun 2018 18:45

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:128 Resp: 3757
 Ion Ratio Lower Upper
 128 100
 127 14.6 9.6 14.4#
 129 23.8 8.2 12.2#

