

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062118\
 Data File : VD058274.D
 Acq On : 22 Jun 2018 3:23
 Operator : VA/AP
 Sample : J3622-04RE
 Misc : 5.97g/5ml/MSVOA D/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-A

Quant Time: Jun 22 06:19:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	131360	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.70	114	234942	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	200148	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	109431	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	148039	111.57	ug/l	0.01
Spiked Amount			Recovery	=	223.14%	
35) Dibromofluoromethane	5.55	113	113656	59.44	ug/l	0.00
Spiked Amount			Recovery	=	118.88%	
50) Toluene-d8	8.71	98	197255	42.64	ug/l	0.00
Spiked Amount			Recovery	=	85.28%	
62) 4-Bromofluorobenzene	11.93	95	110372	58.40	ug/l	0.00
Spiked Amount			Recovery	=	116.80%	

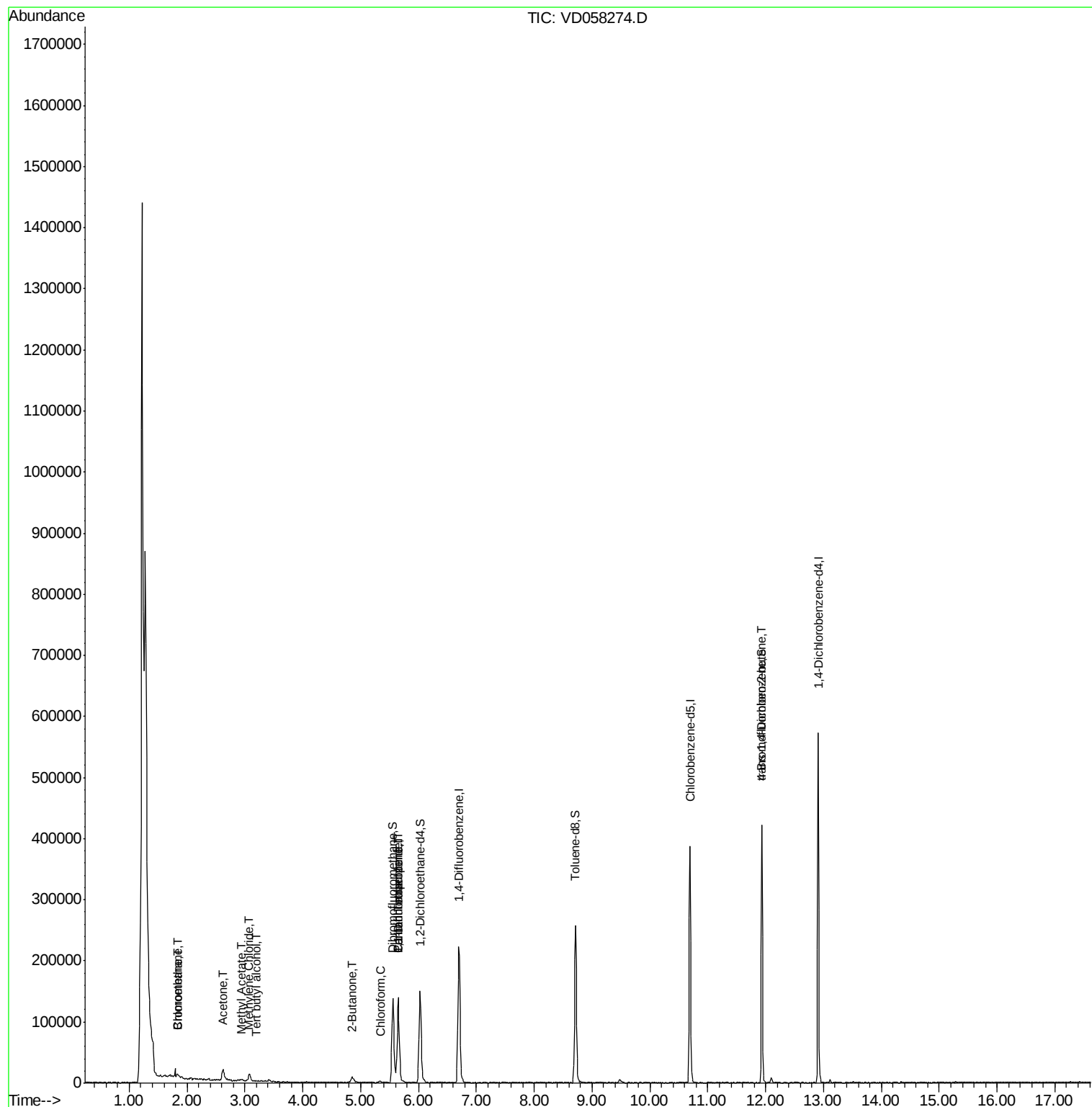
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.49	85	179	Below Cal	#	43
3) Chloromethane	1.61	50	190	Below Cal	#	43
5) Bromomethane	1.82	94	648	2.108	ug/l #	3
6) Chloroethane	1.83	64	199	2.061	ug/l #	41
11) Tert butyl alcohol	3.21	59	227	5.187	ug/l #	78
16) Acetone	2.62	43	36911	203.417	ug/l	96
18) Methyl Acetate	2.95	43	1904	4.920	ug/l #	65
20) Methylene Chloride	3.07	84	5389	7.307	ug/l #	68
25) 2-Butanone	4.85	43	2433	6.152	ug/l #	60
30) Chloroform	5.35	83	4008	1.689	ug/l #	54
31) Cyclohexane	5.63	56	2593	Below Cal	#	36
36) 1,1-Dichloropropene	5.65	75	11505	4.950	ug/l #	43
38) Carbon Tetrachloride	5.64	117	11483	4.972	ug/l #	17
81) trans-1,4-Dichloro-2-buten	11.93	75	51569	132.339	ug/l #	1
82) 4-Chlorotoluene	12.34	91	190	Below Cal	#	45

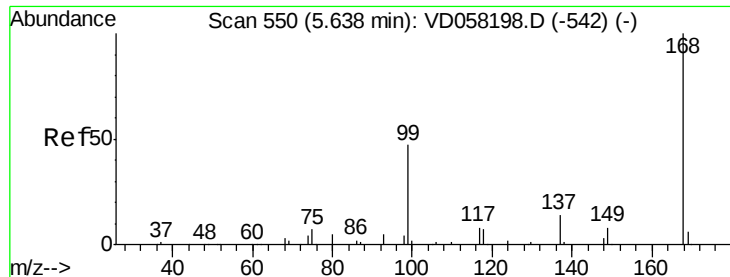
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062118\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.01 min

Lab File: VD058274.D

Acq: 22 Jun 2018 3:23

Instrument :

MSVOA_D

ClientSampleId :

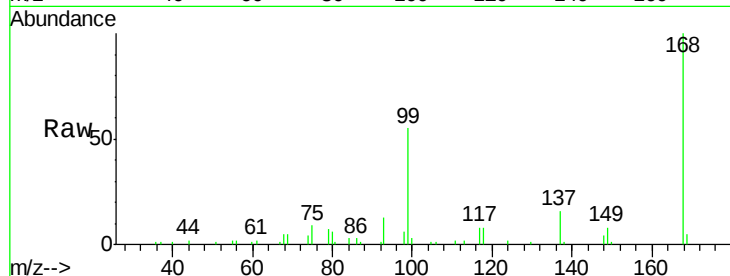
SP-A

Tot Ion:168 Resp: 131360

Ion Ratio Lower Upper

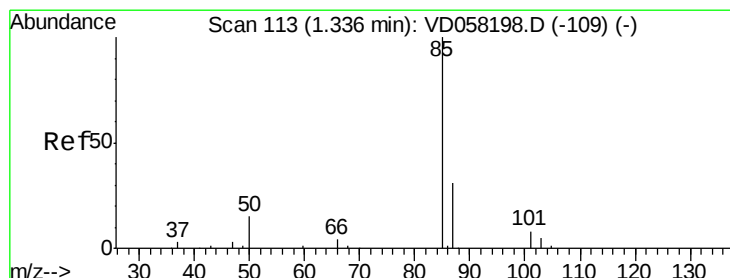
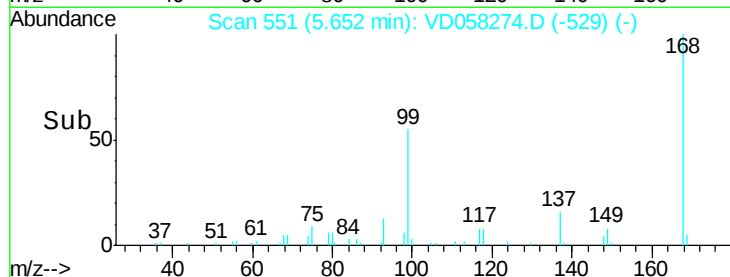
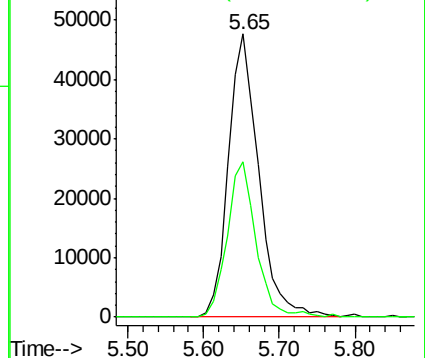
168 100

99 55.1 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.49 min Scan# 128

Delta R.T. 0.15 min

Lab File: VD058274.D

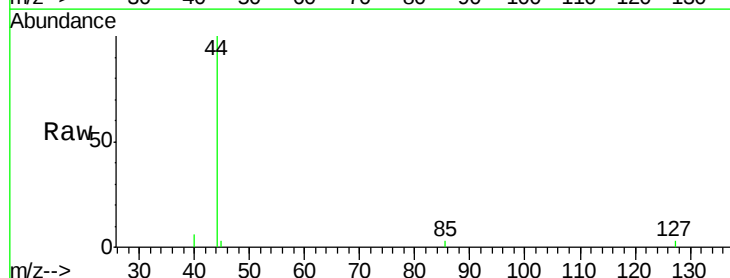
Acq: 22 Jun 2018 3:23

Tgt Ion: 85 Resp: 179

Ion Ratio Lower Upper

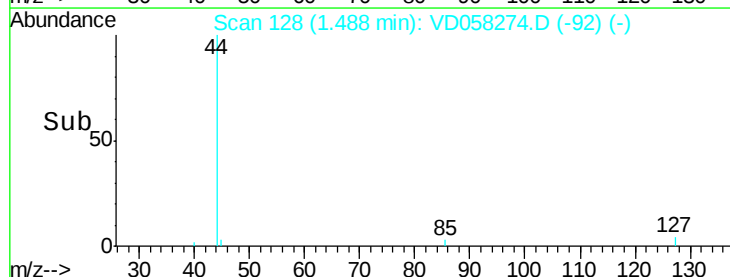
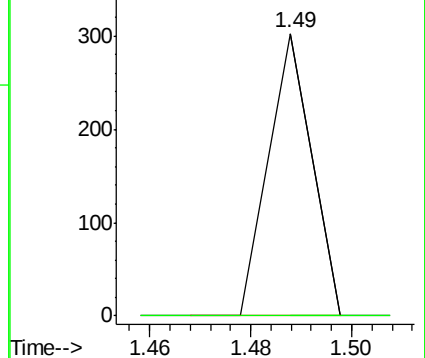
85 100

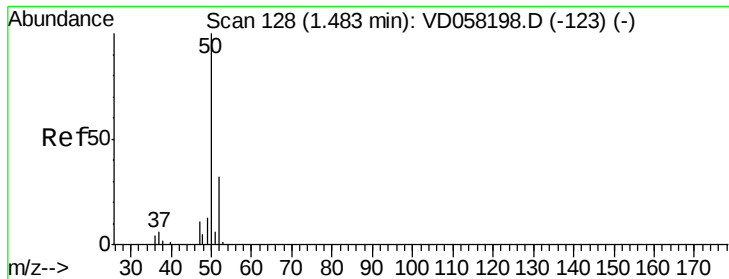
87 0.0 15.7 47.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: Below Cal

RT: 1.61 min Scan# 140

Delta R.T. 0.12 min

Lab File: VD058274.D

Acq: 22 Jun 2018 3:23

Instrument :

MSVOA_D

ClientSampleId :

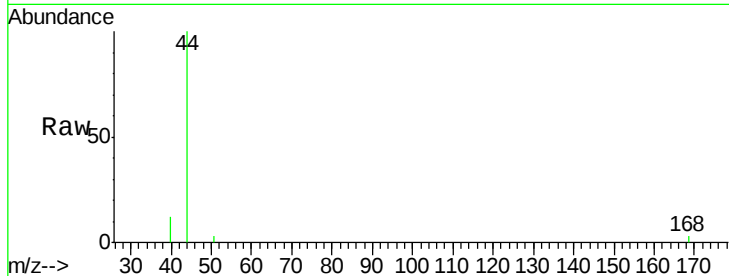
SP-A

Tot Ion: 50 Resp: 190

Ion Ratio Lower Upper

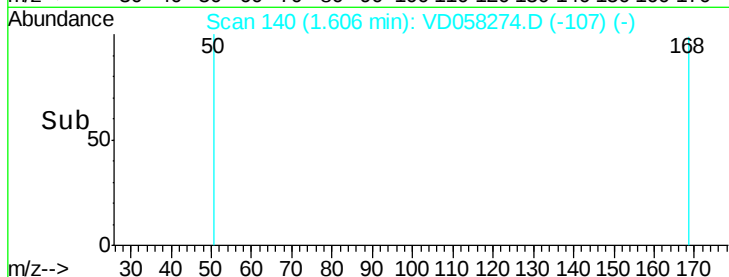
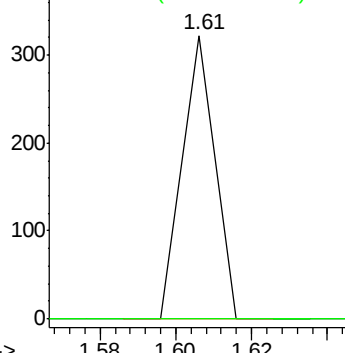
50 100

52 0.0 25.0 37.4#

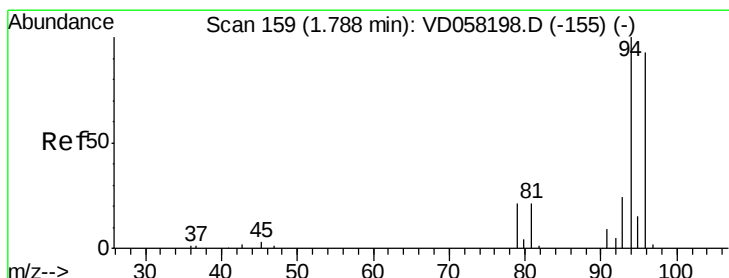


Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



Time-->



#5

Bromomethane

Concen: 2.108 ug/l

RT: 1.82 min Scan# 162

Delta R.T. 0.03 min

Lab File: VD058274.D

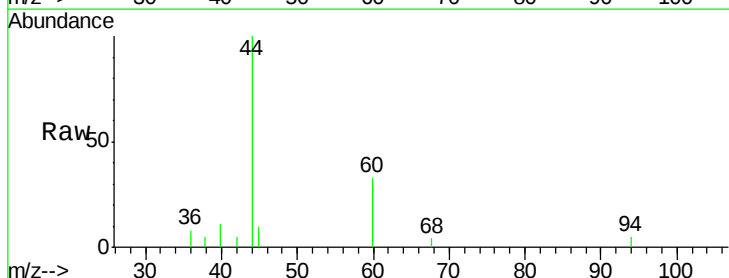
Acq: 22 Jun 2018 3:23

Tgt Ion: 94 Resp: 648

Ion Ratio Lower Upper

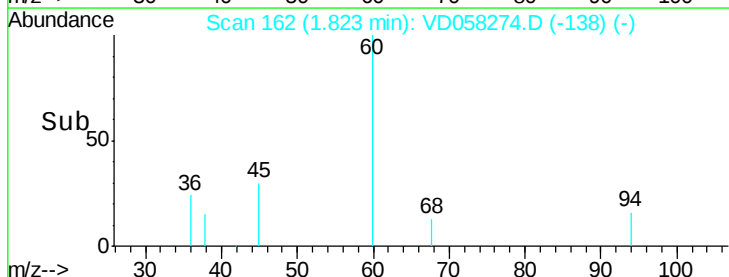
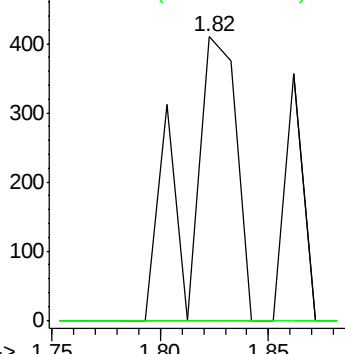
94 100

96 0.0 74.2 111.2#

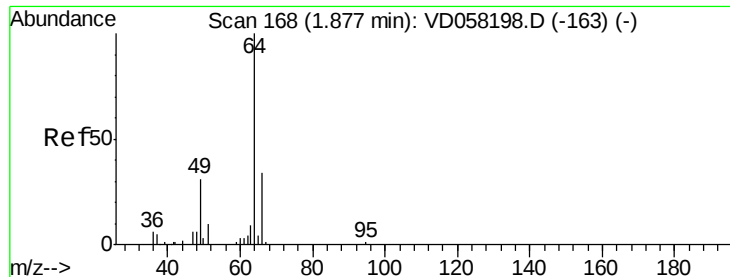


Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



Time-->



#6

Chloroethane

Concen: 2.061 ug/l

RT: 1.83 min Scan# 163

Delta R.T. -0.04 min

Lab File: VD058274.D

Acq: 22 Jun 2018 3:23

Instrument :

MSVOA_D

ClientSampleId :

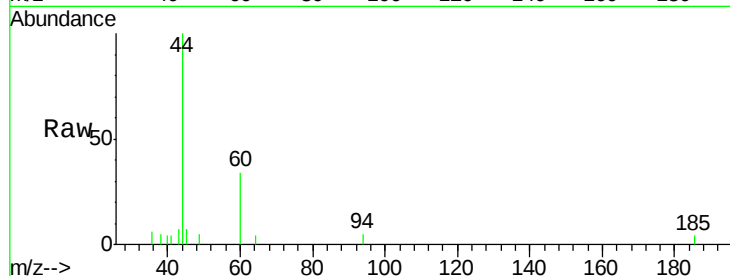
SP-A

Tot Ion: 64 Resp: 199

Ion Ratio Lower Upper

64 100

66 0.0 27.3 40.9#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

1.83

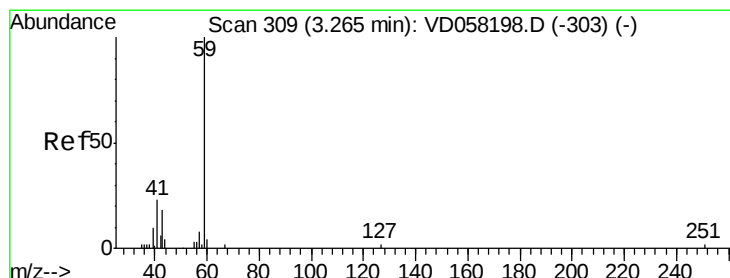
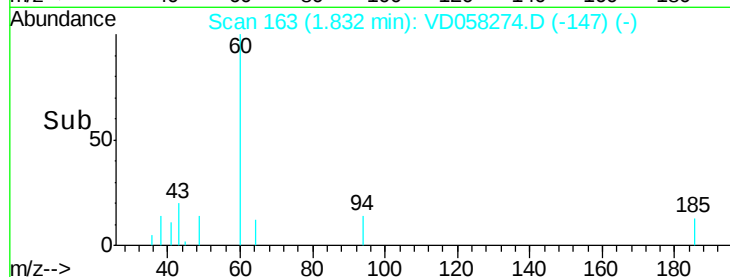
300

200

100

0

Time--> 1.80 1.82 1.84 1.86



#11

Tert butyl alcohol

Concen: 5.187 ug/l

RT: 3.21 min Scan# 303

Delta R.T. -0.05 min

Lab File: VD058274.D

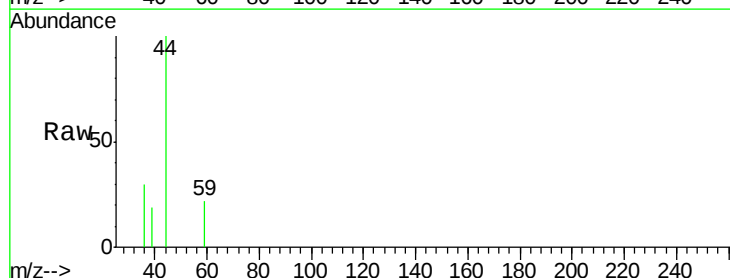
Acq: 22 Jun 2018 3:23

Tgt Ion: 59 Resp: 227

Ion Ratio Lower Upper

59 100

57 0.0 6.2 9.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.21

400

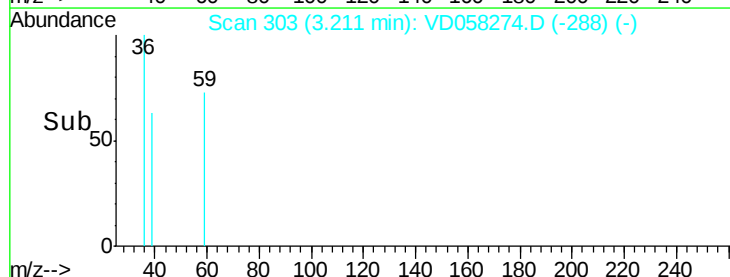
300

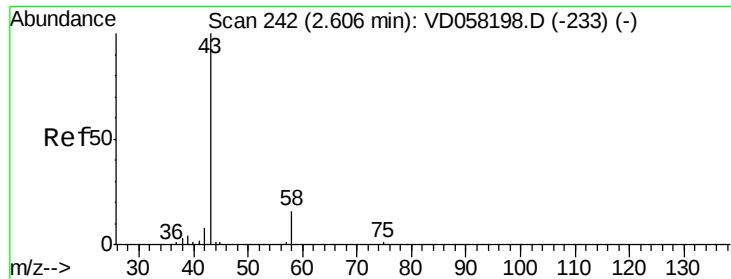
200

100

0

Time--> 3.18 3.20 3.22 3.24





#16

Acetone

Concen: 203.417 ug/l

RT: 2.62 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD058274.D

Acq: 22 Jun 2018 3:23

Instrument :

MSVOA_D

ClientSampleId :

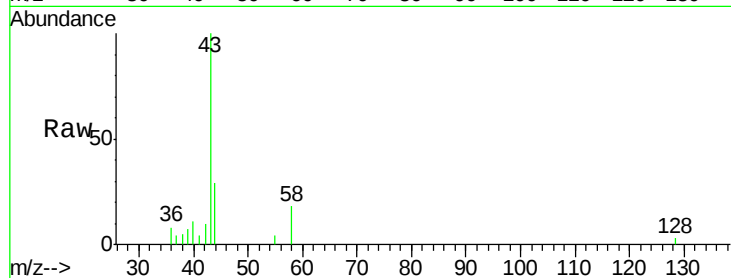
SP-A

Tot Ion: 43 Resp: 36911

Ion Ratio Lower Upper

43 100

58 17.5 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

2.62

12000

10000

8000

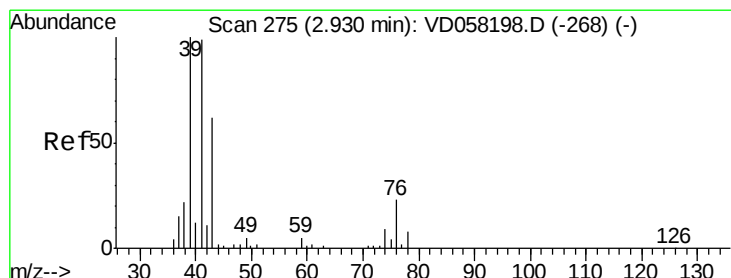
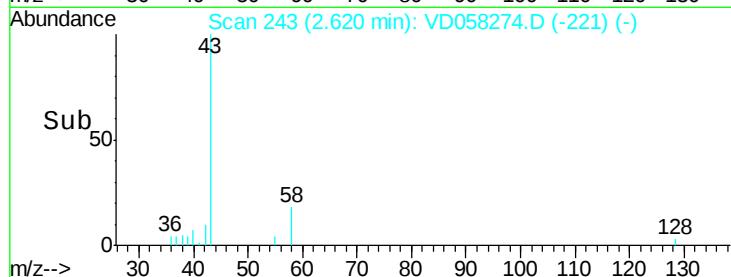
6000

4000

2000

0

Time-->



#18

Methyl Acetate

Concen: 4.920 ug/l

RT: 2.95 min Scan# 277

Delta R.T. 0.02 min

Lab File: VD058274.D

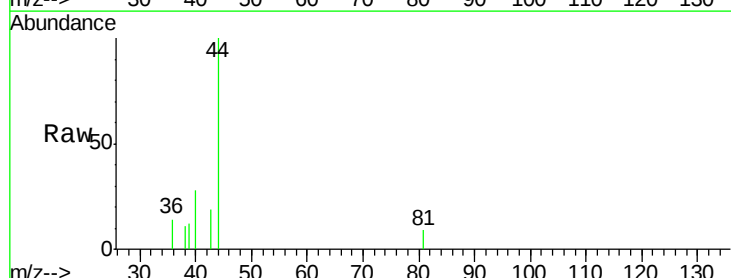
Acq: 22 Jun 2018 3:23

Tgt Ion: 43 Resp: 1904

Ion Ratio Lower Upper

43 100

74 0.0 11.7 17.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

2.95

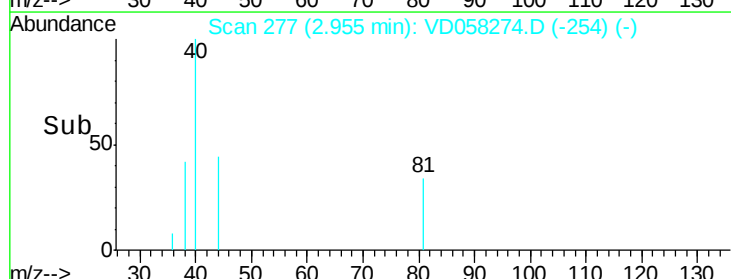
600

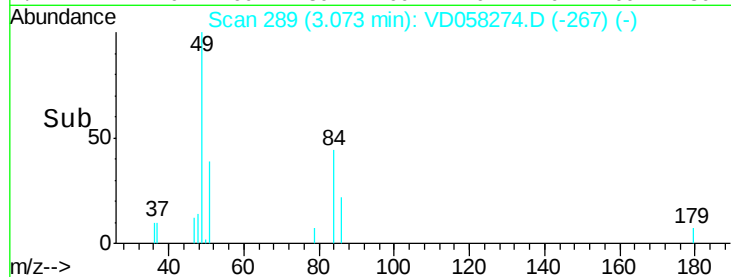
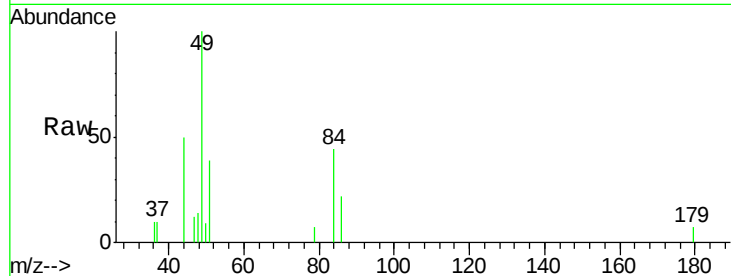
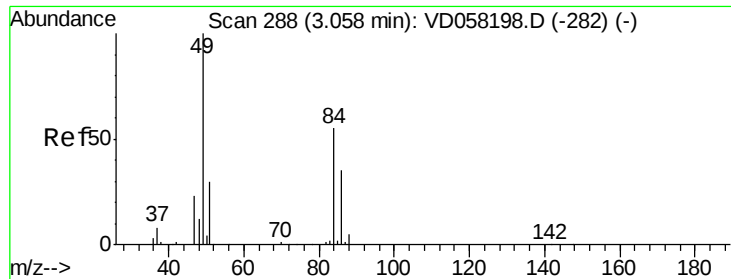
400

200

0

Time-->

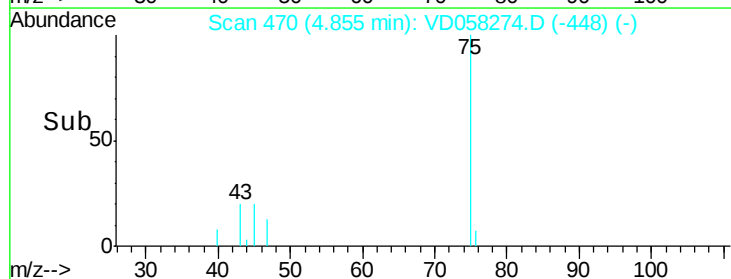
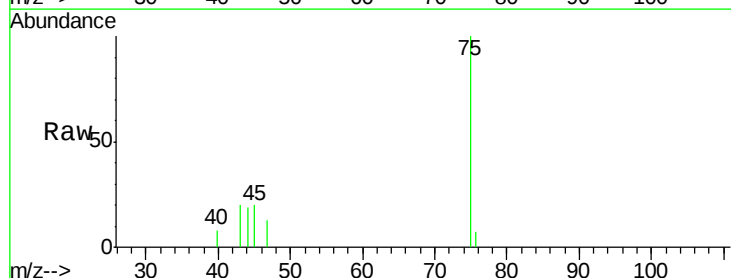
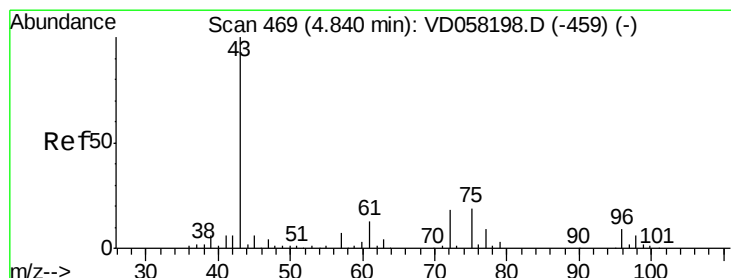
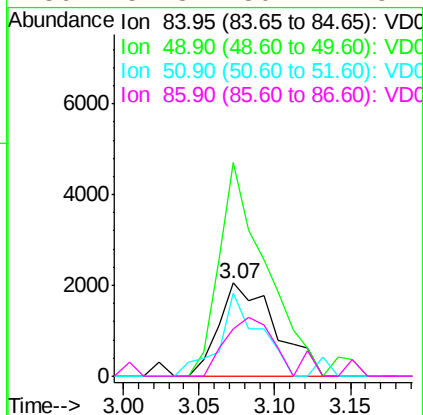




#20
Methylene Chloride
Concen: 7.307 ug/l
RT: 3.07 min Scan# 289
Delta R.T. 0.01 min
Lab File: VD058274.D
Acq: 22 Jun 2018 3:23

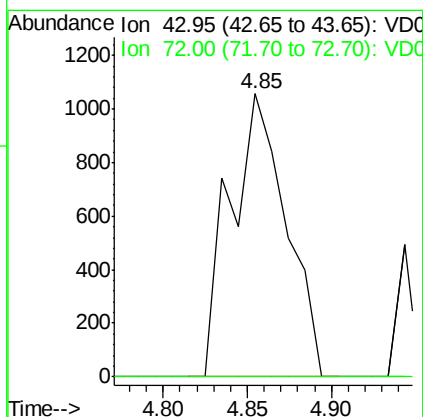
Instrument :
MSVOA_D
ClientSampled :
SP-A

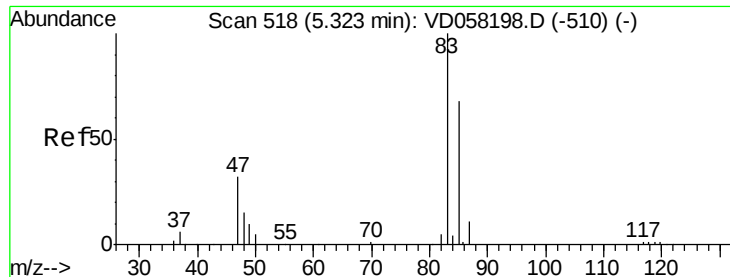
Tot Ion: 84 Resp: 5389
Ion Ratio Lower Upper
84 100
49 228.9 145.0 217.6#
51 89.2 42.9 64.3#
86 51.3 50.1 75.1



#25
2-Butanone
Concen: 6.152 ug/l
RT: 4.85 min Scan# 470
Delta R.T. 0.01 min
Lab File: VD058274.D
Acq: 22 Jun 2018 3:23

Tgt Ion: 43 Resp: 2433
Ion Ratio Lower Upper
43 100
72 0.0 14.1 21.1#

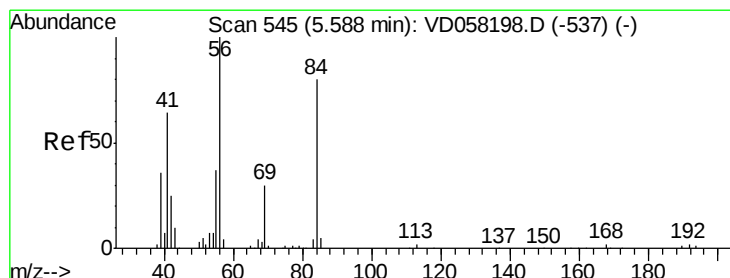
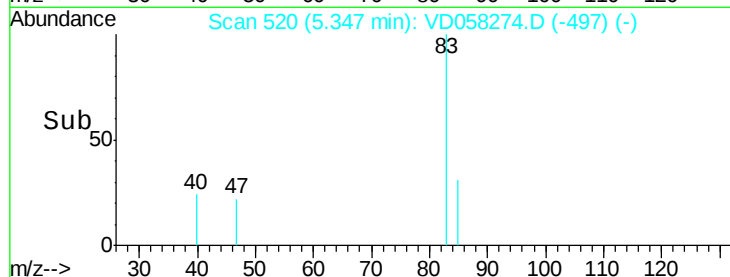
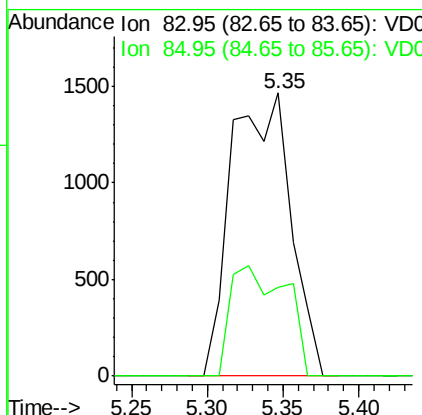
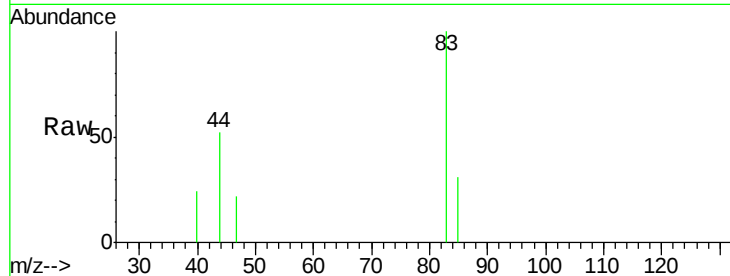




#30
Chloroform
Concen: 1.689 ug/l
RT: 5.35 min Scan# 520
Delta R.T. 0.02 min
Lab File: VD058274.D
Acq: 22 Jun 2018 3:23

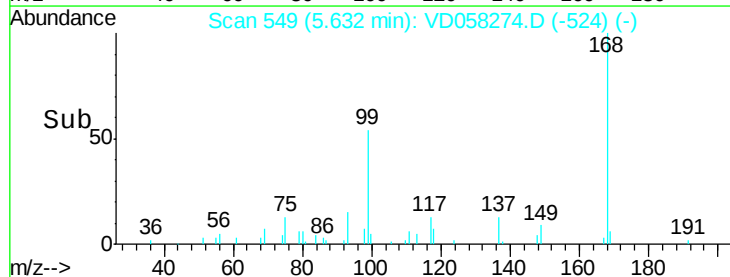
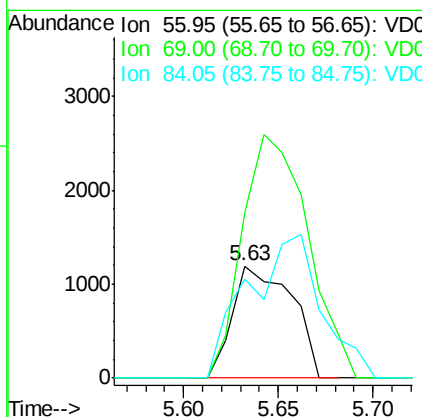
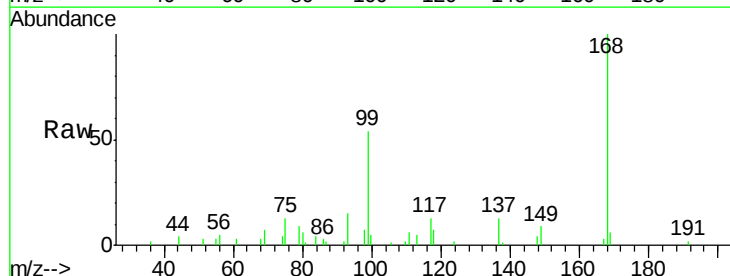
Instrument :
MSVOA_D
ClientSampleId :
SP-A

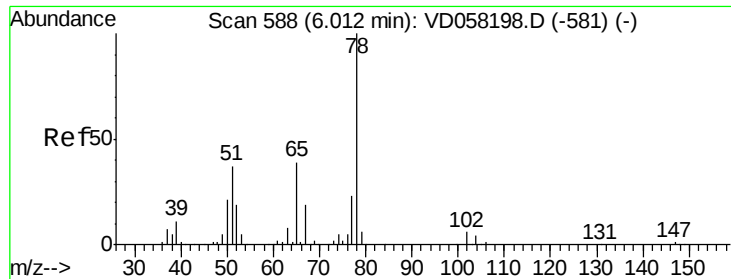
Tot Ion: 83 Resp: 4008
Ion Ratio Lower Upper
83 100
85 31.2 54.8 82.2#



#31
Cyclohexane
Concen: Below Cal
RT: 5.63 min Scan# 549
Delta R.T. 0.04 min
Lab File: VD058274.D
Acq: 22 Jun 2018 3:23

Tgt Ion: 56 Resp: 2593
Ion Ratio Lower Upper
56 100
69 147.8 23.6 35.4#
84 88.4 65.2 97.8

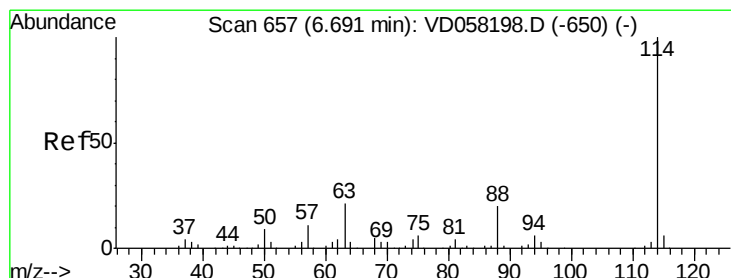
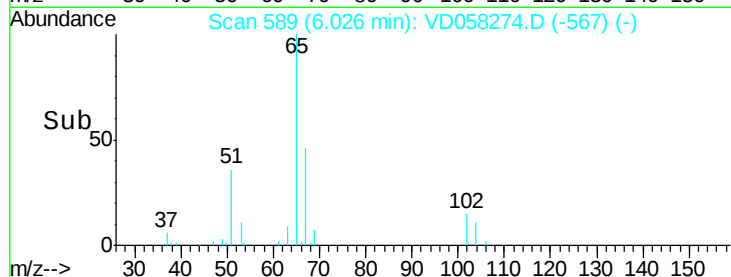
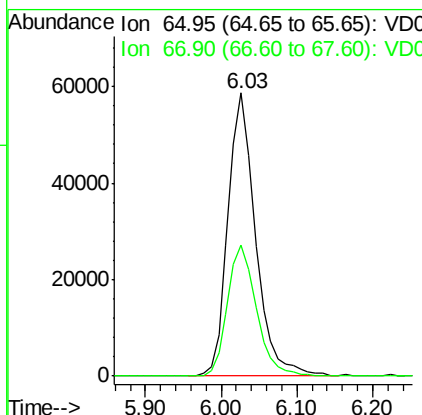
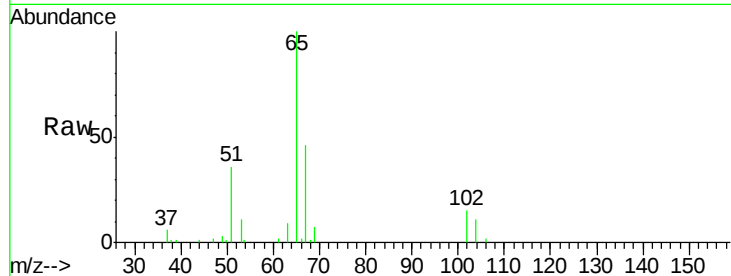




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.03 min Scan# 589
 Delta R.T. 0.01 min
 Lab File: VD058274.D
 Acq: 22 Jun 2018 3:23

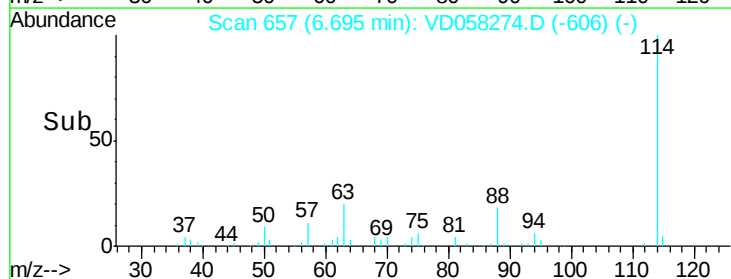
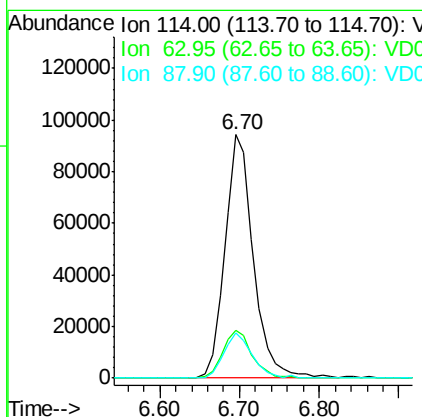
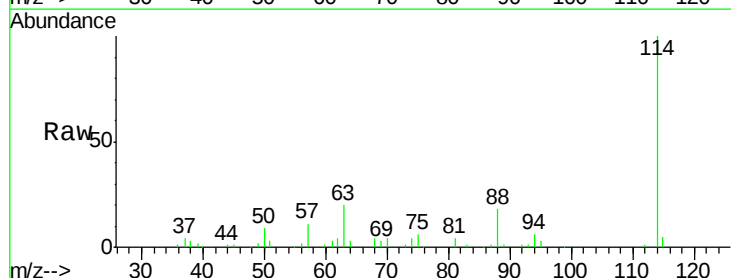
Instrument :
 MSVOA_D
 ClientSampleId :
 SP-A

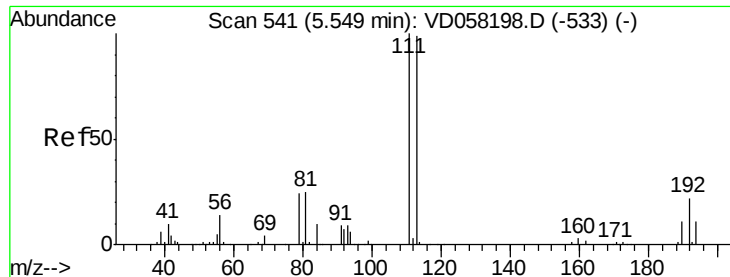
Tot Ion: 65 Resp: 148039
 Ion Ratio Lower Upper
 65 100
 67 46.2 0.0 97.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.70 min Scan# 657
 Delta R.T. 0.00 min
 Lab File: VD058274.D
 Acq: 22 Jun 2018 3:23

Tgt Ion: 114 Resp: 234942
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 42.6
 88 18.4 0.0 40.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.55 min Scan# 541

Delta R.T. 0.00 min

Lab File: VD058274.D

Acq: 22 Jun 2018 3:23

Instrument :

MSVOA_D

ClientSampleId :

SP-A

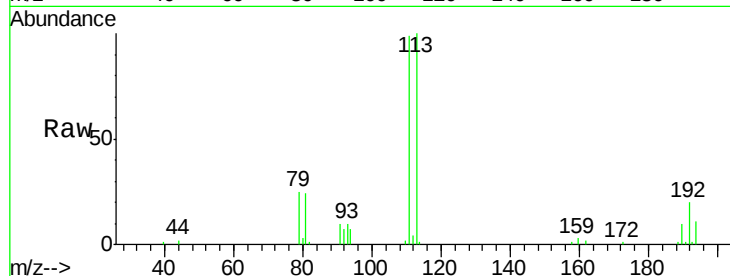
Tot Ion:113 Resp: 113656

Ion Ratio Lower Upper

113 100

111 99.0 80.6 121.0

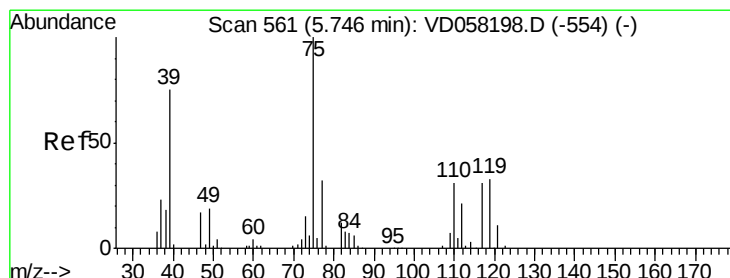
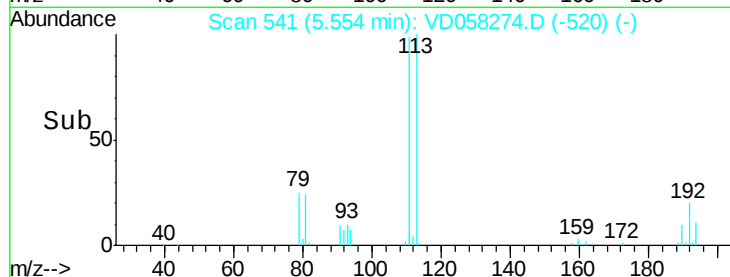
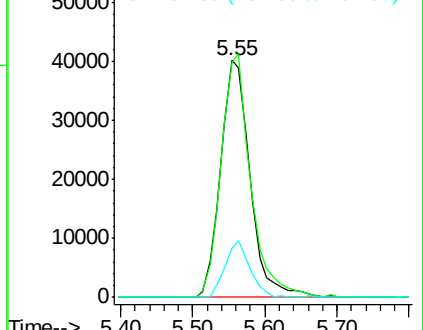
192 20.5 17.8 26.6



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: 4.950 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.09 min

Lab File: VD058274.D

Acq: 22 Jun 2018 3:23

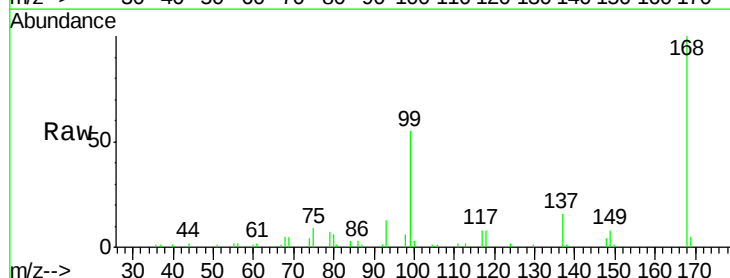
Tgt Ion: 75 Resp: 11505

Ion Ratio Lower Upper

75 100

110 0.0 15.4 46.4#

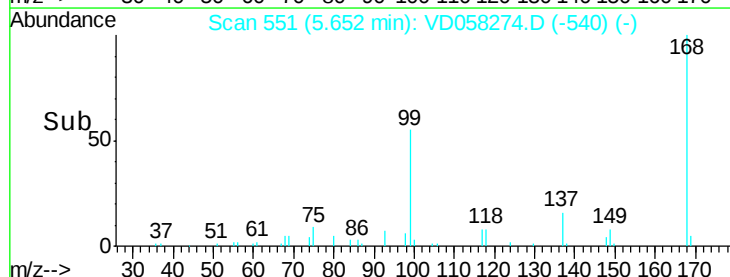
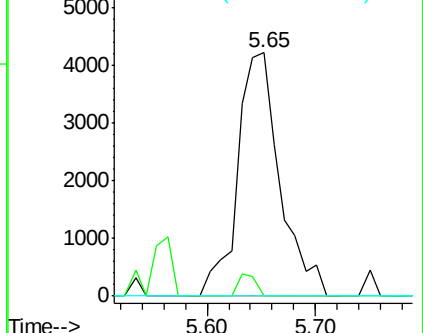
77 0.0 25.4 38.2#

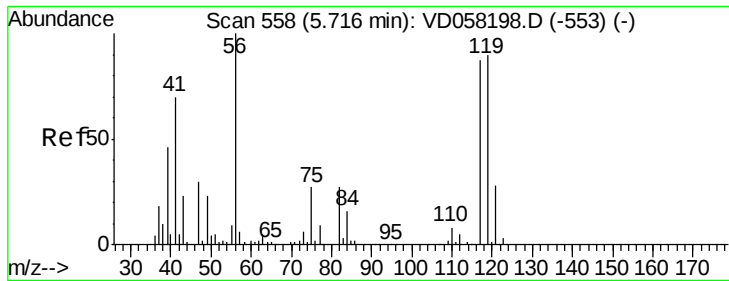


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC

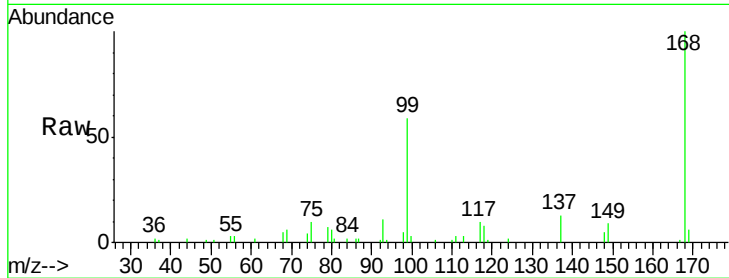




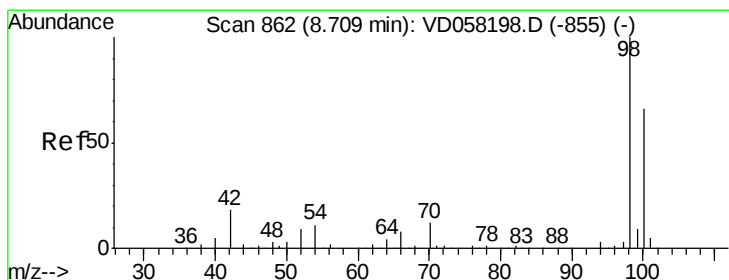
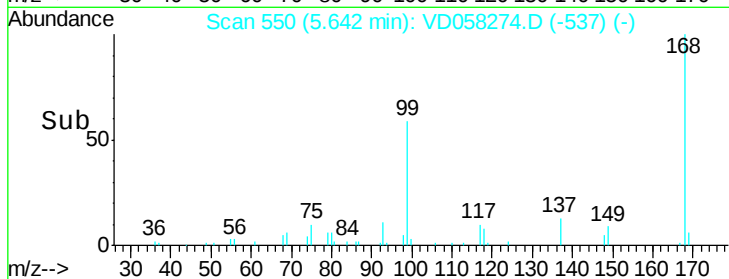
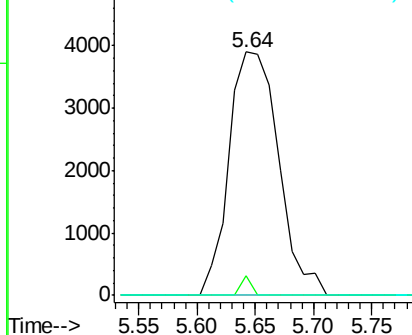
#38
Carbon Tetrachloride
Concen: 4.972 ug/l
RT: 5.64 min Scan# 550
Delta R.T. -0.07 min
Lab File: VD058274.D
Acq: 22 Jun 2018 3:23

Instrument :
MSVOA_D
ClientSampled :
SP-A

Tot Ion:117 Resp: 11483
Ion Ratio Lower Upper
117 100
119 8.0 78.8 118.2#
121 0.0 25.0 37.6#

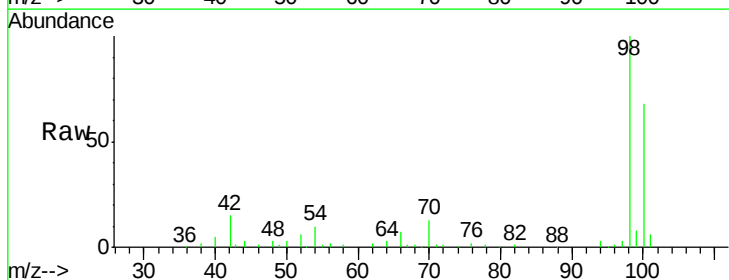


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

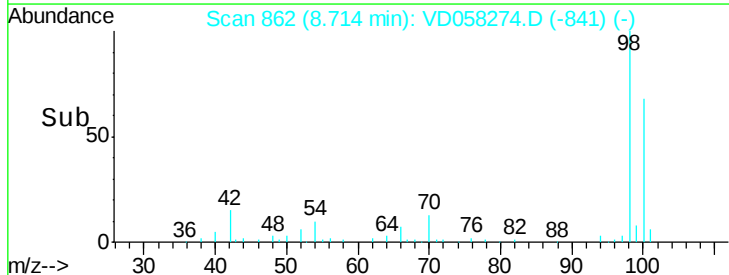
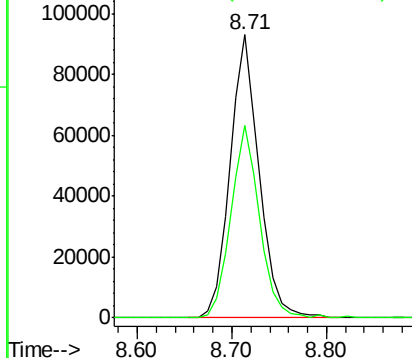


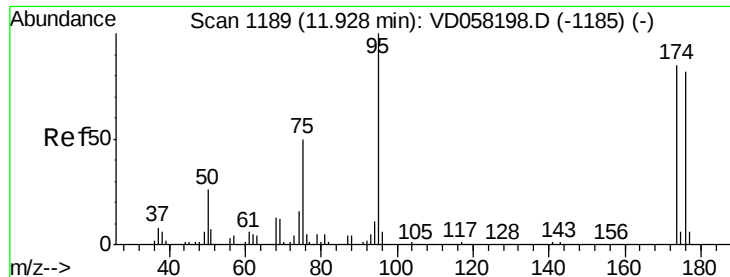
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.71 min Scan# 862
Delta R.T. 0.00 min
Lab File: VD058274.D
Acq: 22 Jun 2018 3:23

Tgt Ion: 98 Resp: 197255
Ion Ratio Lower Upper
98 100
100 68.2 53.6 80.4



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: 11.93 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VD058274.D

Acq: 22 Jun 2018 3:23

Instrument :

MSVOA_D

ClientSampleId :

SP-A

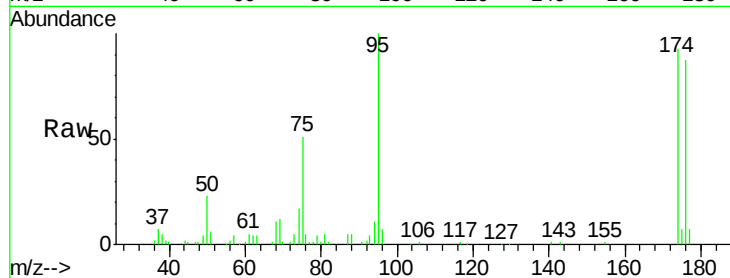
Tot Ion: 95 Resp: 110372

Ion Ratio Lower Upper

95 100

174 93.0 0.0 170.2

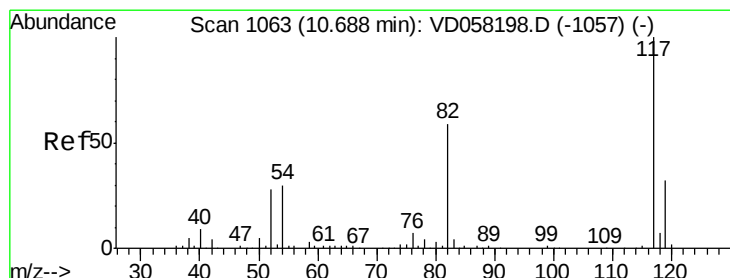
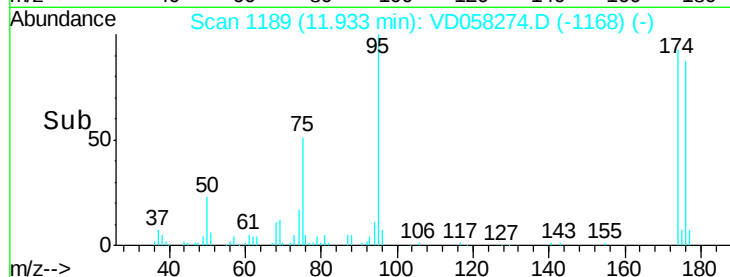
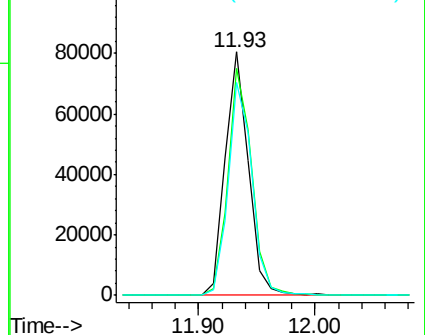
176 87.5 0.0 164.6



Abundance Ion 95.00 (94.70 to 95.70): V

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. 0.00 min

Lab File: VD058274.D

Acq: 22 Jun 2018 3:23

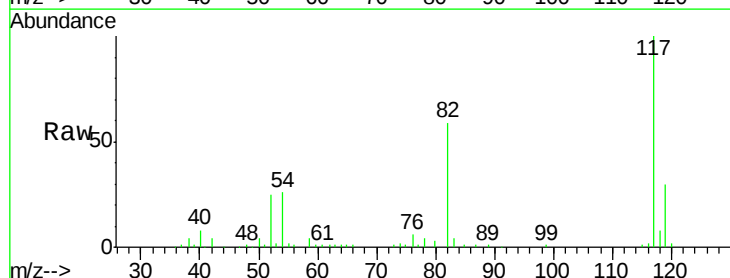
Tgt Ion: 117 Resp: 200148

Ion Ratio Lower Upper

117 100

82 59.4 47.0 70.6

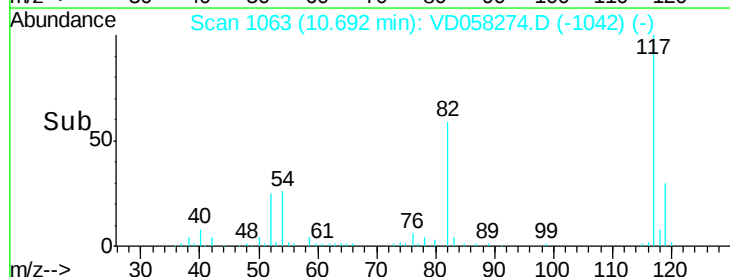
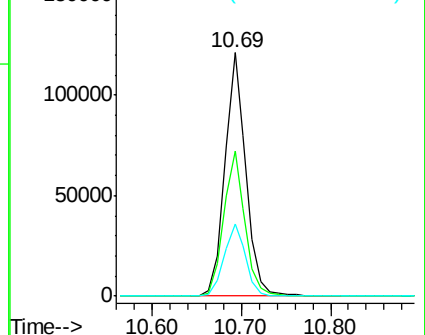
119 29.7 25.3 37.9

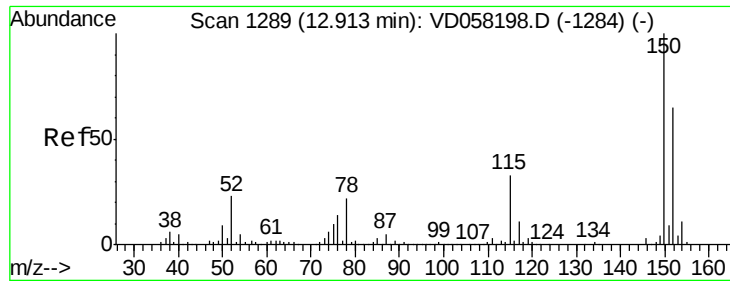


Abundance Ion 116.95 (116.65 to 117.65): V

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# 1288

Delta R.T. -0.01 min

Lab File: VD058274.D

Acq: 22 Jun 2018 3:23

Instrument :

MSVOA_D

ClientSampleId :

SP-A

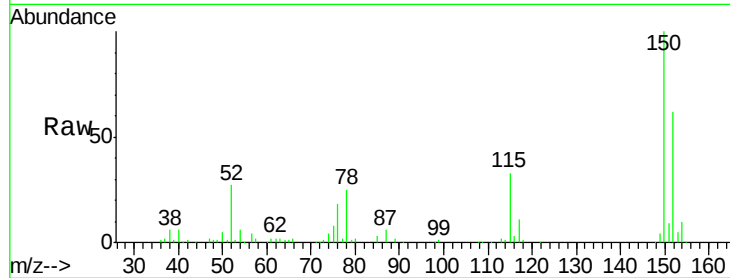
Tot Ion:152 Resp: 109431

Ion Ratio Lower Upper

152 100

115 53.7 25.1 75.3

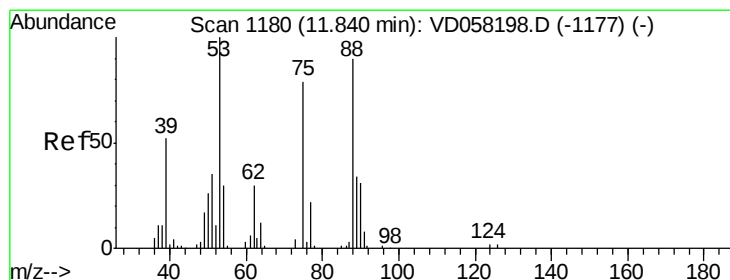
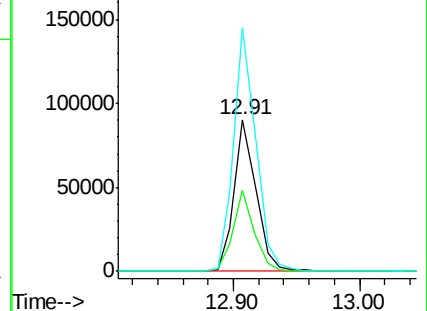
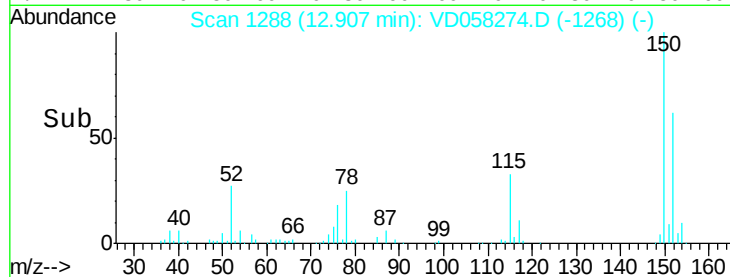
150 160.2 0.0 308.8



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: 132.339 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058274.D

Acq: 22 Jun 2018 3:23

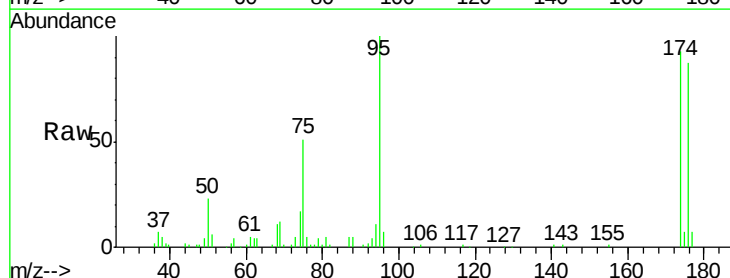
Tgt Ion: 75 Resp: 51569

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

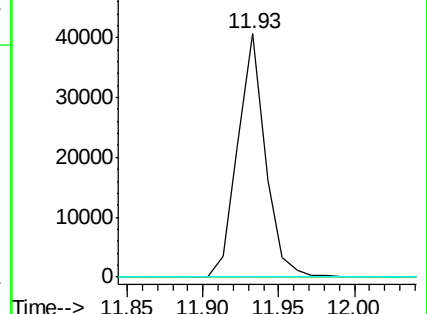
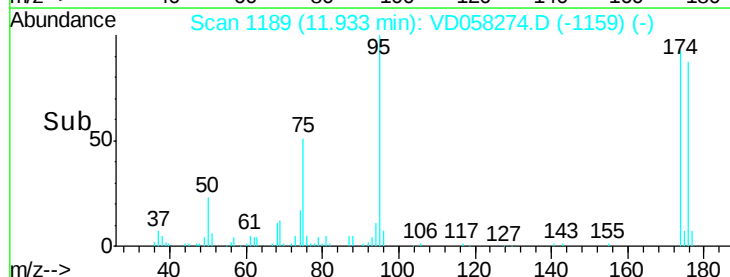
89 0.0 34.6 52.0#

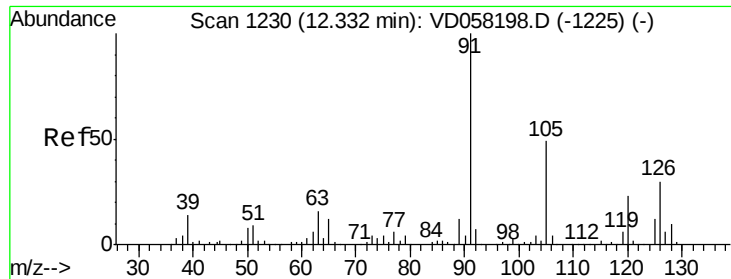


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#82
 4-Chlorotoluene
 Concen: Below Cal
 RT: 12.34 min Scan# 1230
 Delta R.T. 0.01 min
 Lab File: VD058274.D
 Acq: 22 Jun 2018 3:23

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-A

Tot Ion: 91 Resp: 190
 Ion Ratio Lower Upper
 91 100
 126 0.0 14.9 44.9#

