

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062318\
 Data File : VD058343.D
 Acq On : 23 Jun 2018 16:18
 Operator : VA/AP
 Sample : J3664-18
 Misc : 5.84g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 25 01:07:52 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	5.66	168	889482	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.71	114	1184628	50.00	ug/l	0.02
63) Chlorobenzene-d5	10.70	117	938310	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	459296	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	309684	34.47	ug/l	0.03
Spiked Amount			Recovery	=	68.94%	
35) Dibromofluoromethane	5.57	113	331302	34.36	ug/l	0.02
Spiked Amount			Recovery	=	68.72%	
50) Toluene-d8	8.72	98	780683	33.47	ug/l	0.01
Spiked Amount			Recovery	=	66.94%	
62) 4-Bromofluorobenzene	11.94	95	334404	35.09	ug/l	0.01
Spiked Amount			Recovery	=	70.18%	

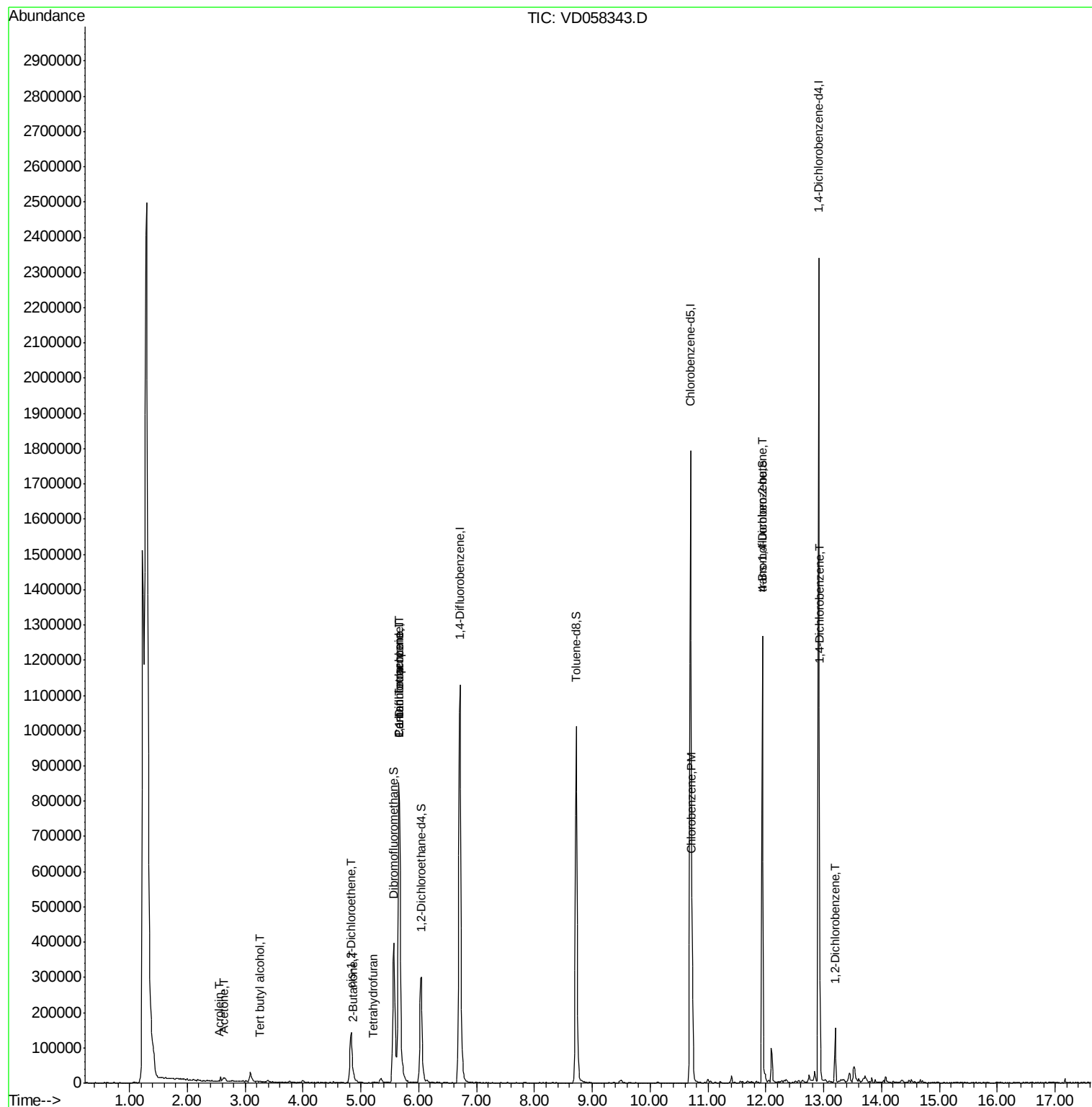
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.36	85	510	Below Cal	#	43
3) Chloromethane	1.54	50	397	Below Cal	#	43
5) Bromomethane	1.81	94	465	Below Cal	#	3
11) Tert butyl alcohol	3.25	59	629	2.12	ug/l	78
13) Acrolein	2.55	56	187	1.11	ug/l	11
16) Acetone	2.63	43	20015	16.29	ug/l	75
20) Methylene Chloride	3.10	84	12260	Below Cal	#	76
25) 2-Butanone	4.87	43	3472	1.30	ug/l	60
27) cis-1,2-Dichloroethene	4.83	96	84144	10.08	ug/l	84
29) Tetrahydrofuran	5.22	42	2346	1.65	ug/l	50
31) Cyclohexane	5.67	56	20206	Below Cal	#	1
36) 1,1-Dichloropropene	5.66	75	73254	6.25	ug/l	48
38) Carbon Tetrachloride	5.66	117	72006	6.18	ug/l	15
65) Chlorobenzene	10.73	112	119740	6.82	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.94	75	162999	99.66	ug/l	1
82) 4-Chlorotoluene	12.33	91	1636	Below Cal		97
88) 1,4-Dichlorobenzene	12.93	146	41936	3.00	ug/l	96
91) 1,2-Dichlorobenzene	13.20	146	38251	3.14	ug/l	95

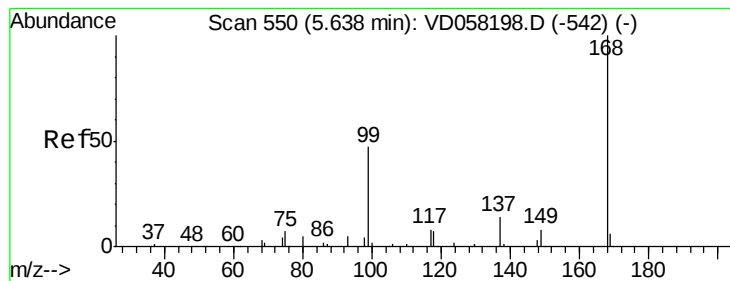
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 552

Delta R.T. 0.02 min

Lab File: VD058343.D

Acq: 23 Jun 2018 16:18

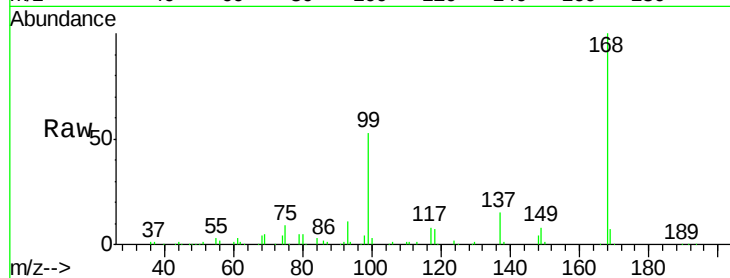
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 889482

Ion Ratio Lower Upper

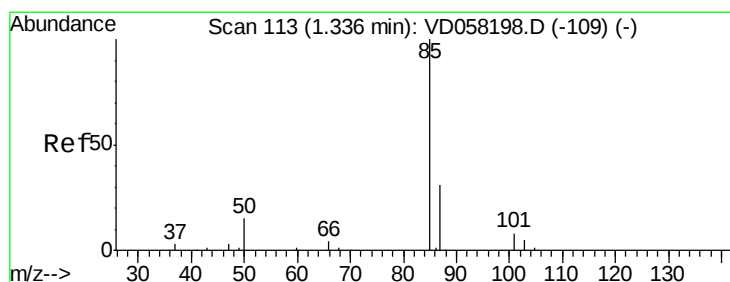
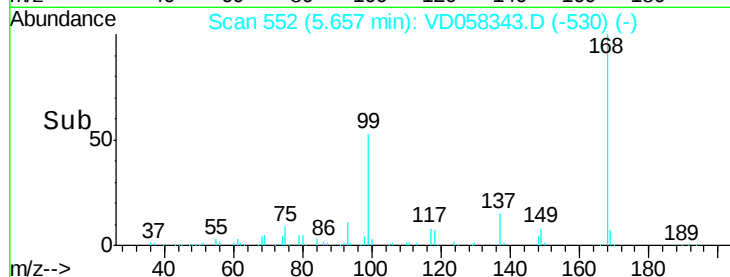
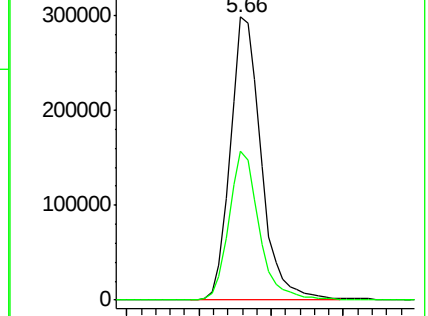
168 100

99 52.8 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: 1.36 min Scan# 115

Delta R.T. 0.02 min

Lab File: VD058343.D

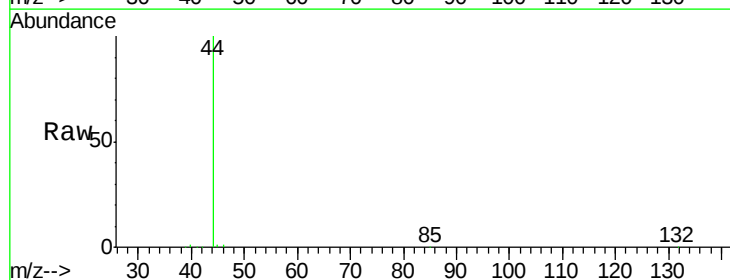
Acq: 23 Jun 2018 16:18

Tgt Ion: 85 Resp: 510

Ion Ratio Lower Upper

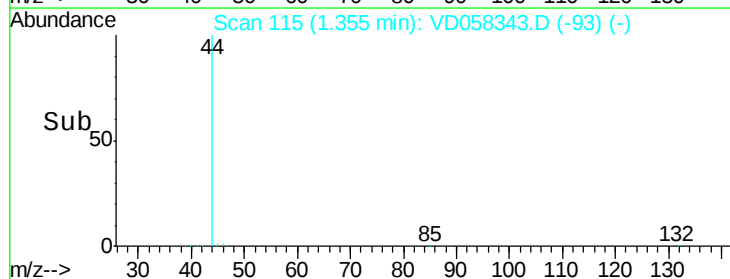
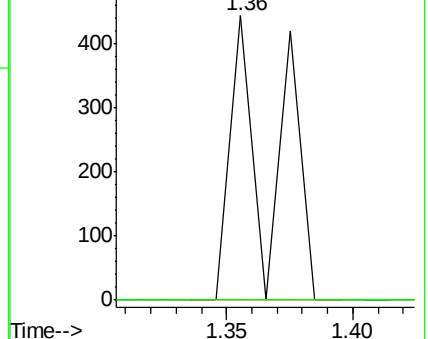
85 100

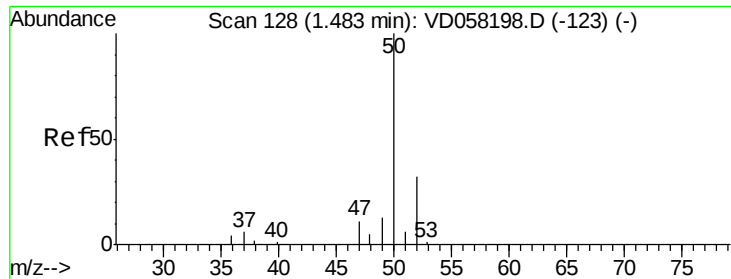
87 0.0 15.7 47.0#



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: 1.54 min Scan# 134

Delta R.T. 0.06 min

Lab File: VD058343.D

Acq: 23 Jun 2018 16:18

Instrument :

MSVOA_D

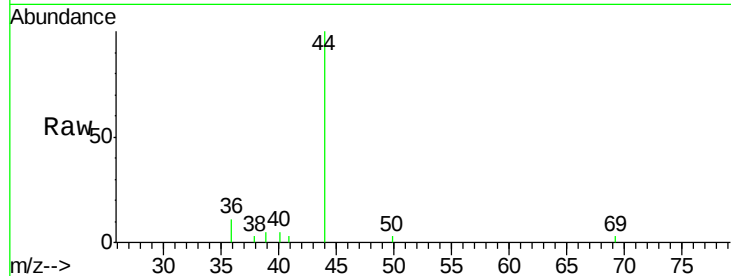
ClientSampleId :

Tot Ion: 50 Resp: 397

Ion Ratio Lower Upper

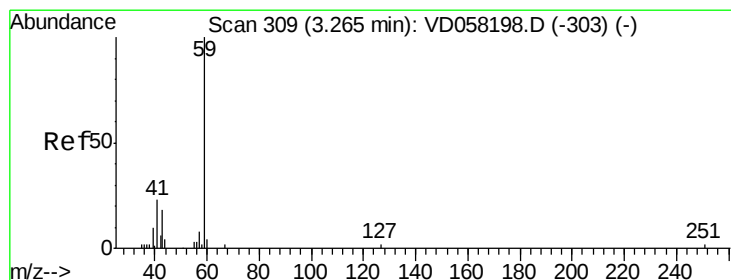
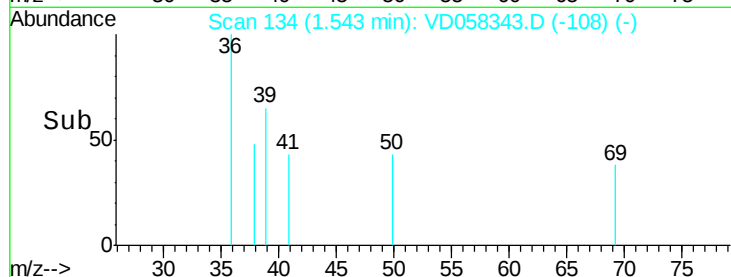
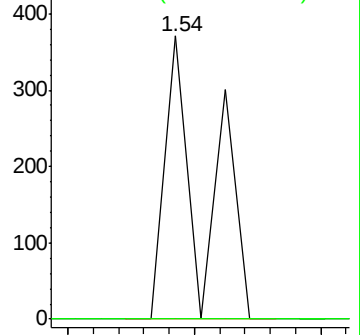
50 100

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



#11

Tert butyl alcohol

Concen: 2.12 ug/l

RT: 3.25 min Scan# 307

Delta R.T. -0.02 min

Lab File: VD058343.D

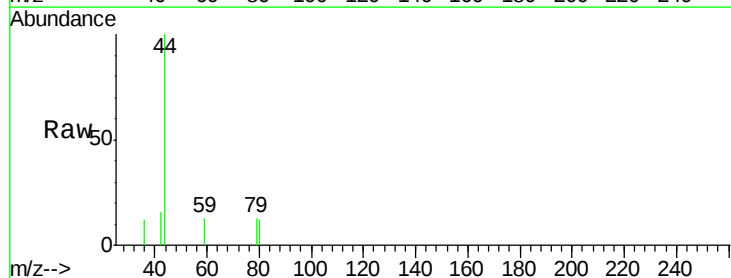
Acq: 23 Jun 2018 16:18

Tgt Ion: 59 Resp: 629

Ion Ratio Lower Upper

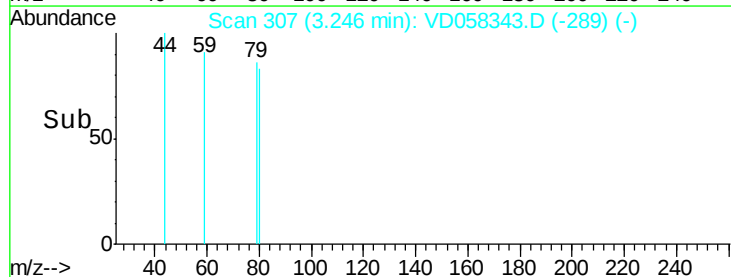
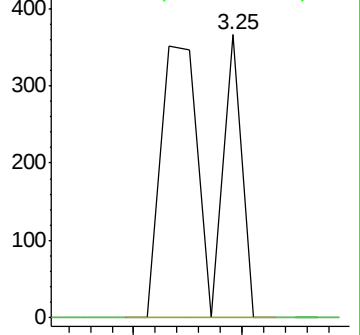
59 100

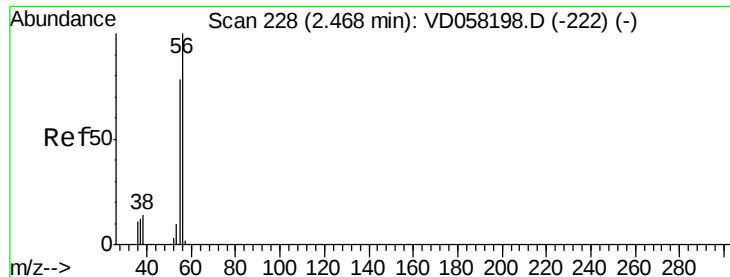
57 0.0 6.2 9.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 1.11 ug/l

RT: 2.55 min Scan# 236

Delta R.T. 0.08 min

Lab File: VD058343.D

Acq: 23 Jun 2018 16:18

Instrument :

MSVOA_D

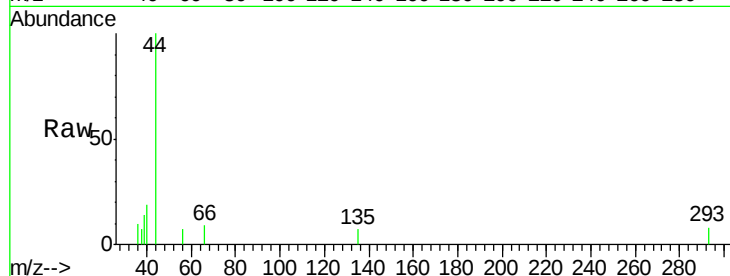
ClientSampleId :

Tot Ion: 56 Resp: 187

Ion Ratio Lower Upper

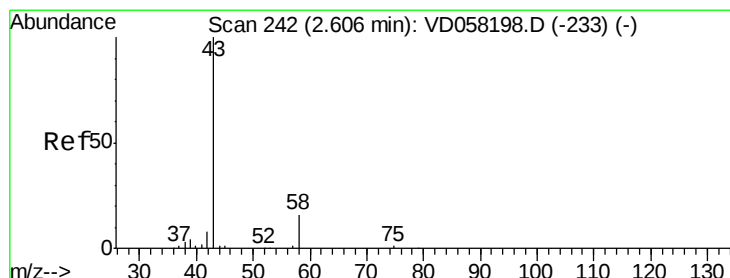
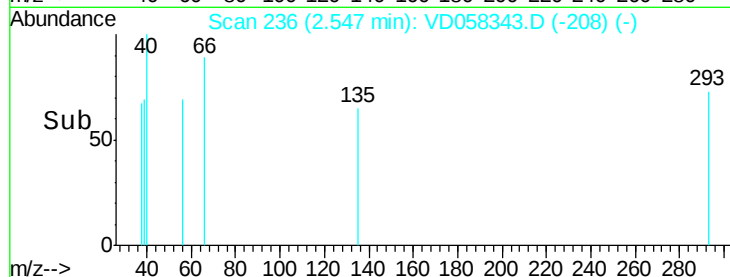
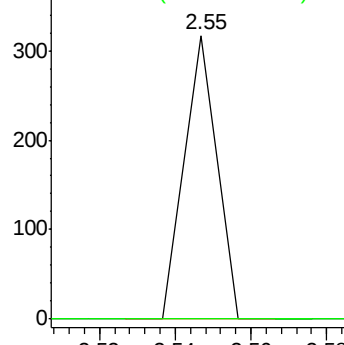
56 100

55 0.0 62.1 93.1#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 16.29 ug/l

RT: 2.63 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD058343.D

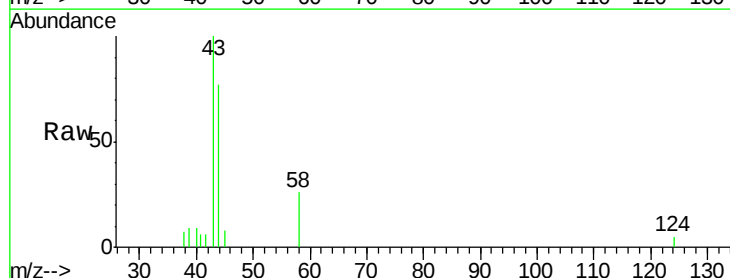
Acq: 23 Jun 2018 16:18

Tgt Ion: 43 Resp: 20015

Ion Ratio Lower Upper

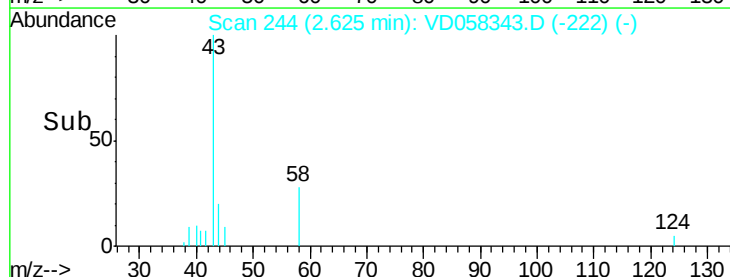
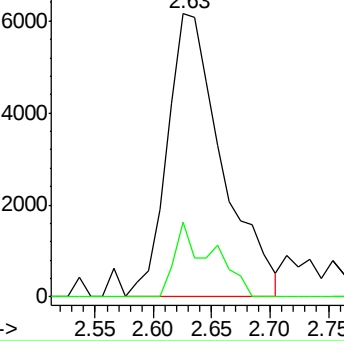
43 100

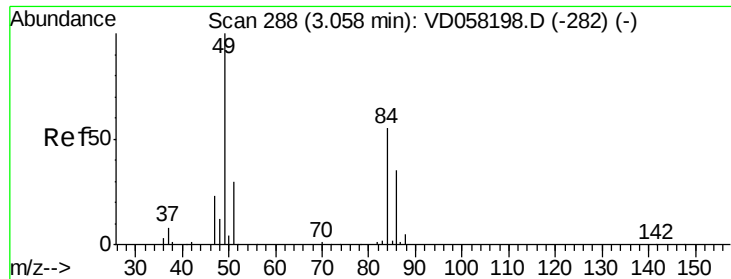
58 26.3 12.7 19.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

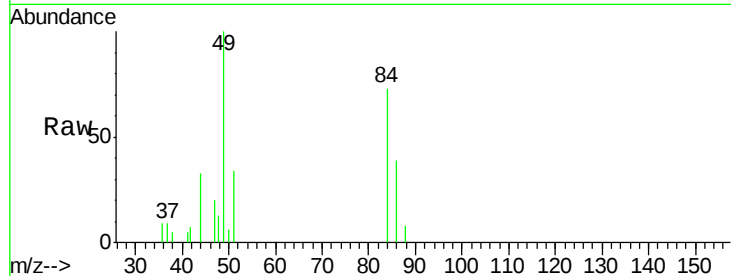




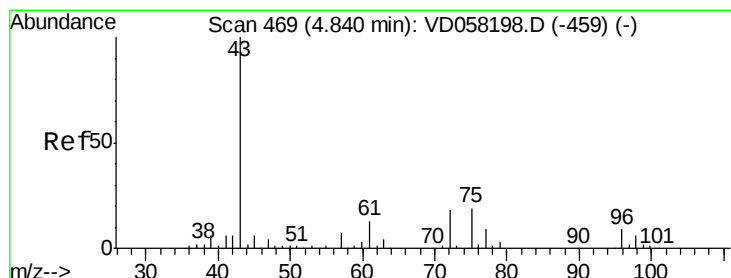
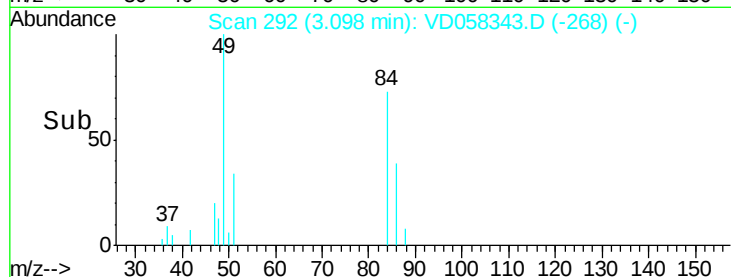
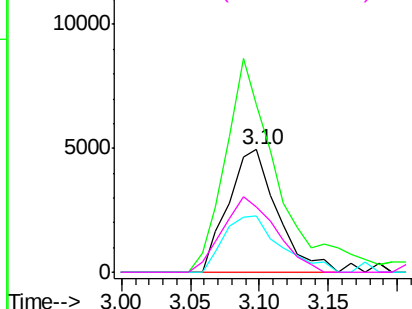
#20
Methvlene Chloride
Concen: Below Cal
RT: 3.10 min Scan# 292
Delta R.T. 0.04 min
Lab File: VD058343.D
Acq: 23 Jun 2018 16:18

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 84 Resp: 12260
Ion Ratio Lower Upper
84 100
49 136.7 145.0 217.6#
51 45.9 42.9 64.3
86 53.2 50.1 75.1

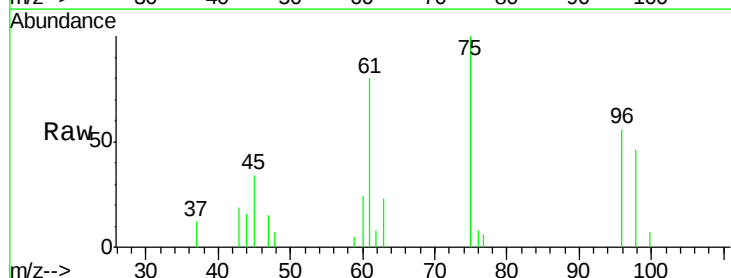


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

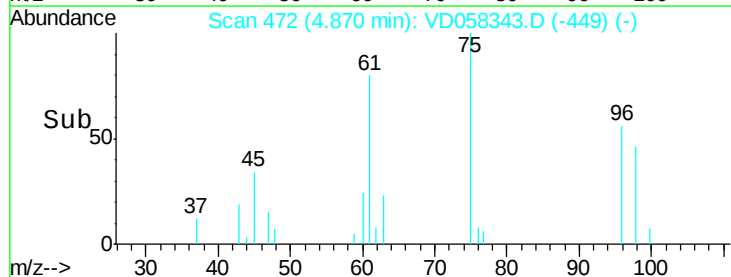
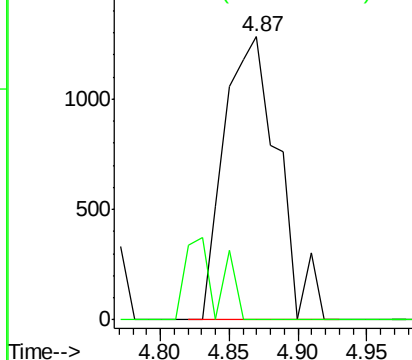


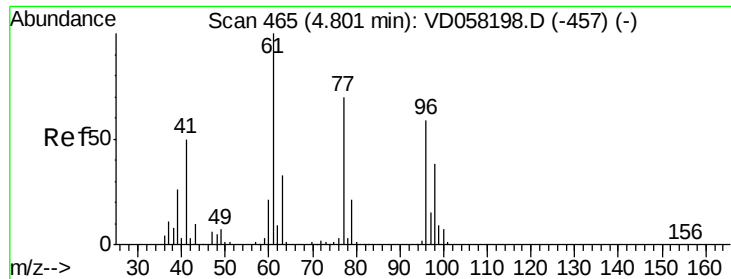
#25
2-Butanone
Concen: 1.30 ug/l
RT: 4.87 min Scan# 472
Delta R.T. 0.03 min
Lab File: VD058343.D
Acq: 23 Jun 2018 16:18

Tgt Ion: 43 Resp: 3472
Ion Ratio Lower Upper
43 100
72 0.0 14.1 21.1#



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



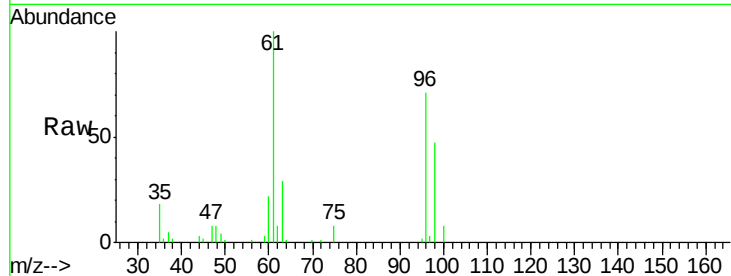


#27

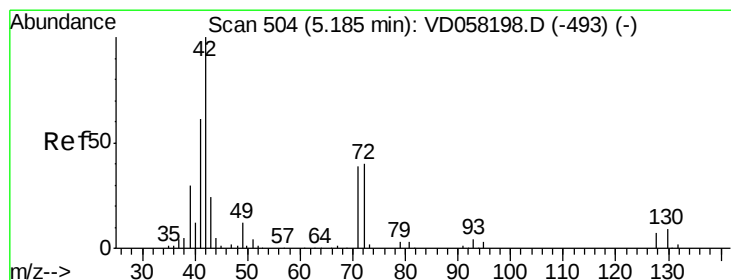
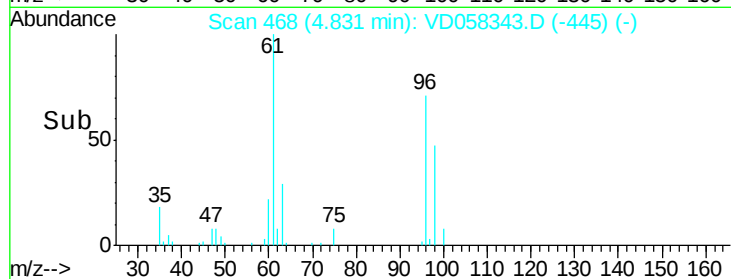
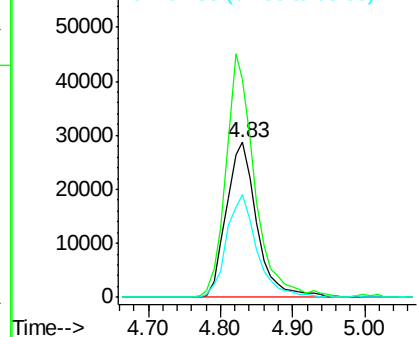
cis-1,2-Dichloroethene
 Concen: 10.08 ug/l
 RT: 4.83 min Scan# 468
 Delta R.T. 0.03 min
 Lab File: VD058343.D
 Acq: 23 Jun 2018 16:18

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion: 96 Resp: 84144
 Ion Ratio Lower Upper
 96 100
 61 140.6 0.0 338.6
 98 66.5 0.0 130.2



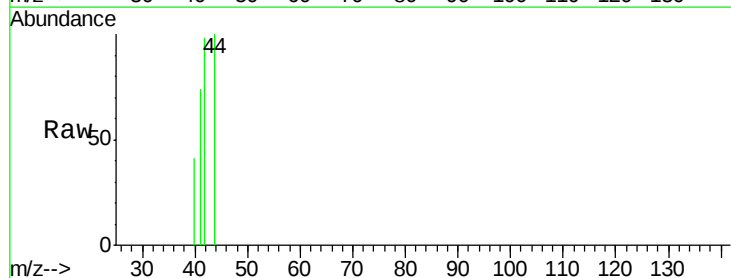
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



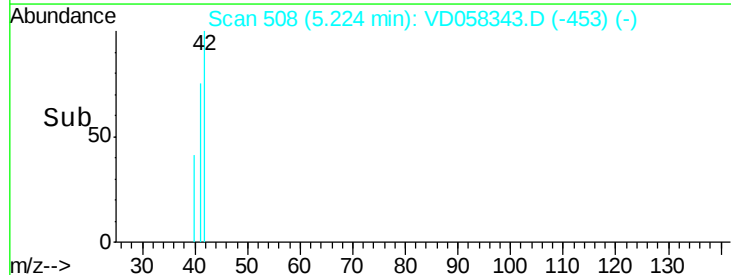
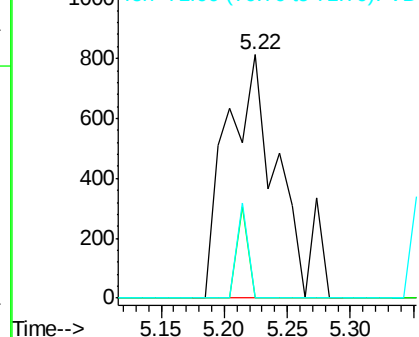
#29

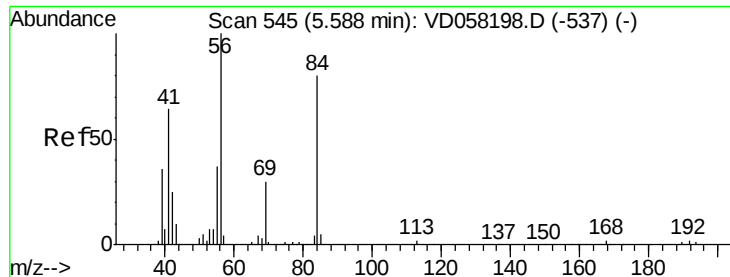
Tetrahydrofuran
 Concen: 1.65 ug/l
 RT: 5.22 min Scan# 508
 Delta R.T. 0.04 min
 Lab File: VD058343.D
 Acq: 23 Jun 2018 16:18

Tgt Ion: 42 Resp: 2346
 Ion Ratio Lower Upper
 42 100
 72 7.7 30.2 45.2#
 71 8.0 30.1 45.1#



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

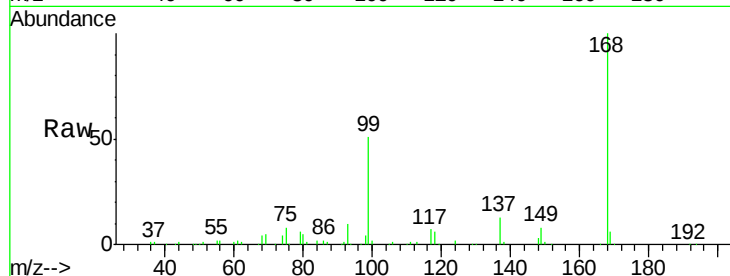




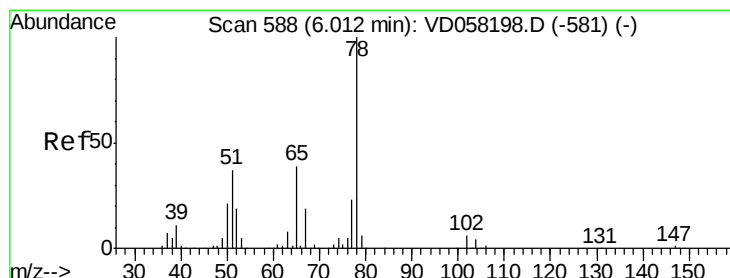
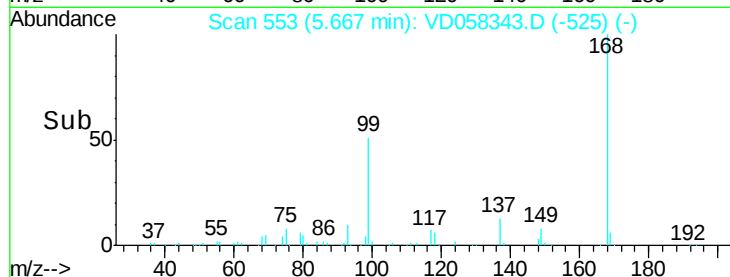
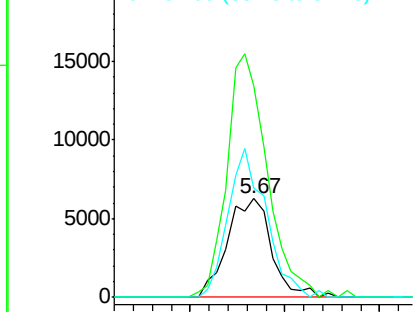
#31
Cyclohexane
Concen: Below Cal
RT: 5.67 min Scan# 553
Delta R.T. 0.08 min
Lab File: VD058343.D
Acq: 23 Jun 2018 16:18

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 20206
Ion Ratio Lower Upper
56 100
69 213.7 23.6 35.4#
84 110.0 65.2 97.8#

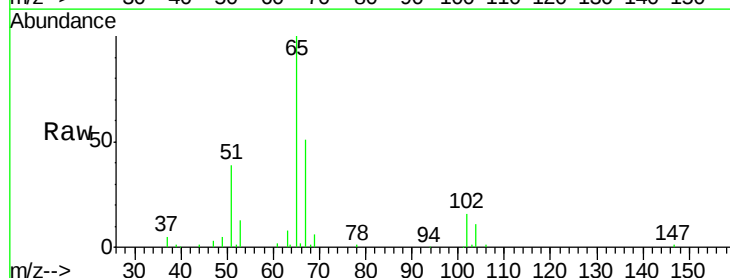


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

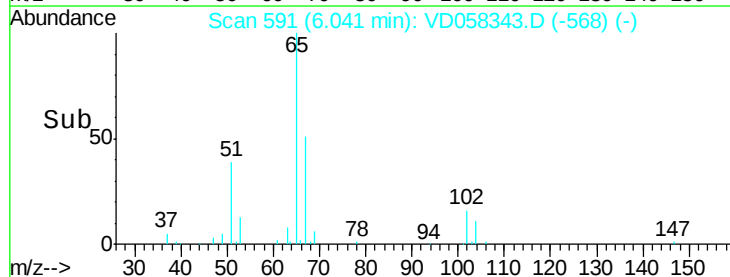
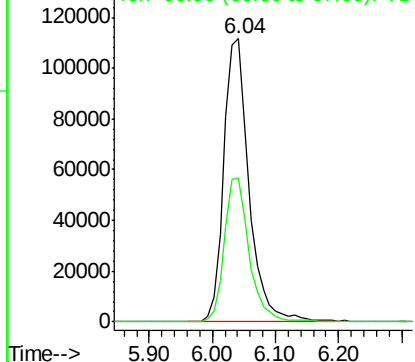


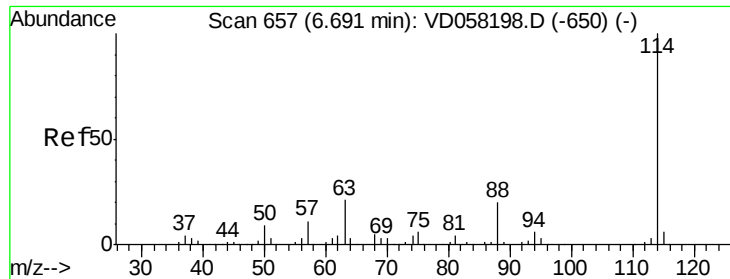
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.04 min Scan# 591
Delta R.T. 0.03 min
Lab File: VD058343.D
Acq: 23 Jun 2018 16:18

Tgt Ion: 65 Resp: 309684
Ion Ratio Lower Upper
65 100
67 50.7 0.0 97.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

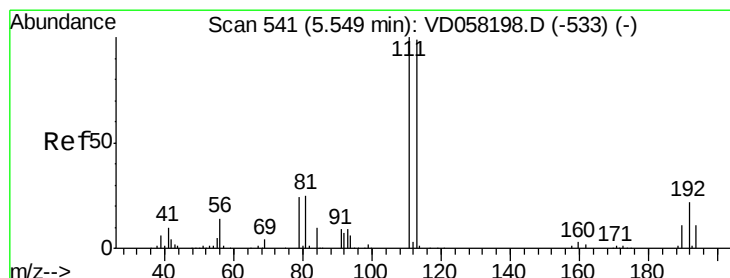
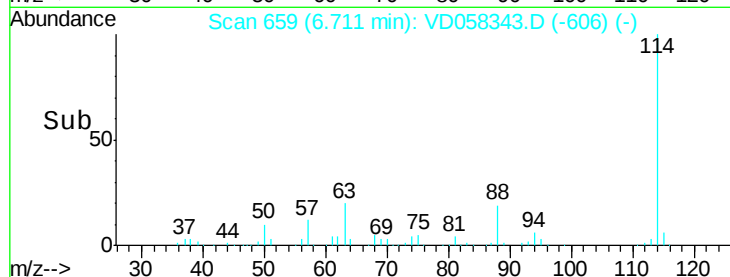
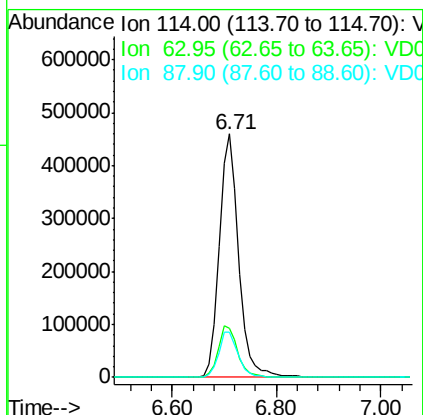
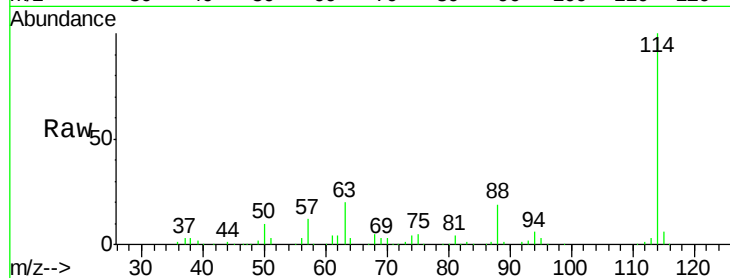




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.71 min Scan# 659
 Delta R.T. 0.02 min
 Lab File: VD058343.D
 Acq: 23 Jun 2018 16:18

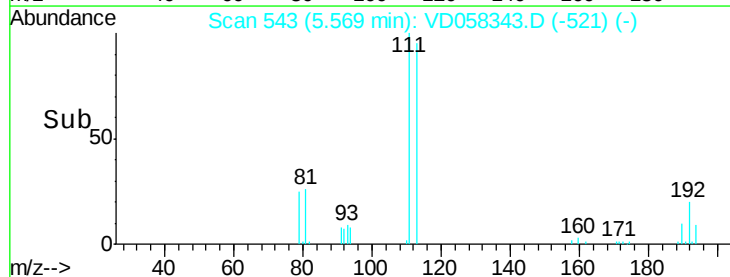
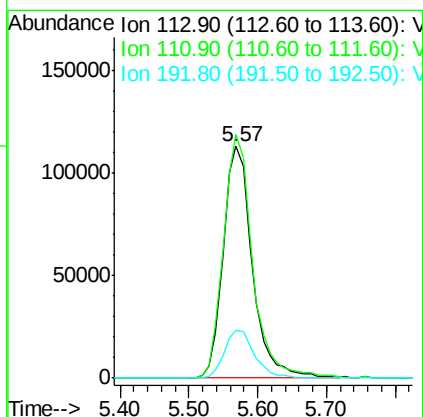
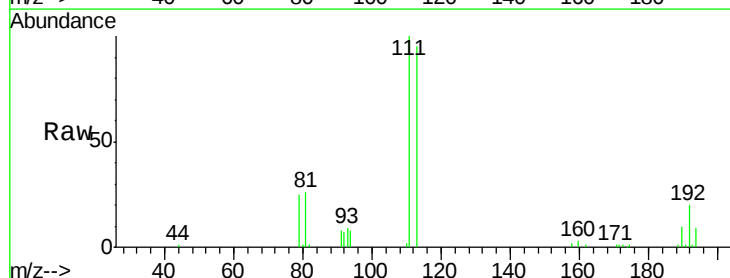
Instrument :
 MSVOA_D
 ClientSampleId :

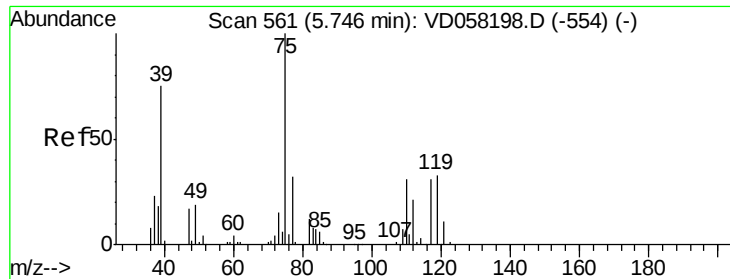
Tot Ion:114 Resp: 1184628
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 42.6
 88 18.7 0.0 40.6



#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 5.57 min Scan# 543
 Delta R.T. 0.02 min
 Lab File: VD058343.D
 Acq: 23 Jun 2018 16:18

Tgt Ion:113 Resp: 331302
 Ion Ratio Lower Upper
 113 100
 111 104.9 80.6 121.0
 192 20.6 17.8 26.6





#36

1,1-Dichloropropene

Concen: 6.25 ug/l

RT: 5.66 min Scan# 552

Delta R.T. -0.09 min

Lab File: VD058343.D

Acq: 23 Jun 2018 16:18

Instrument :
MSVOA_D
ClientSampleId :

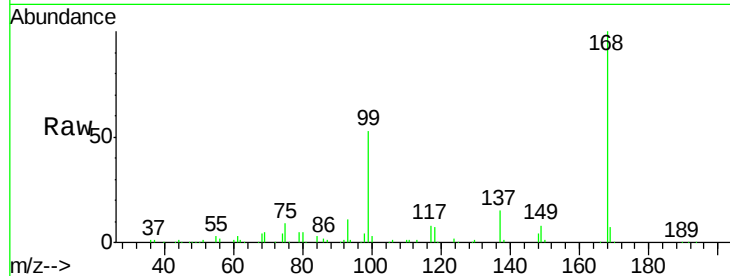
Tot Ion: 75 Resp: 73254

Ion Ratio Lower Upper

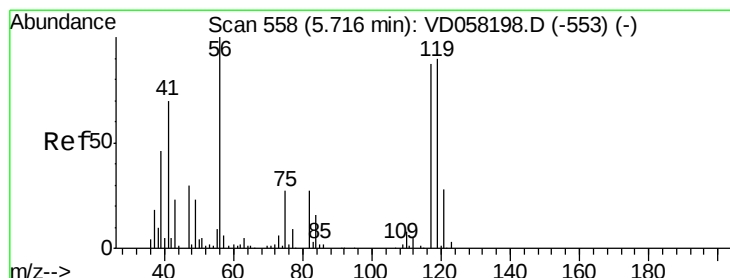
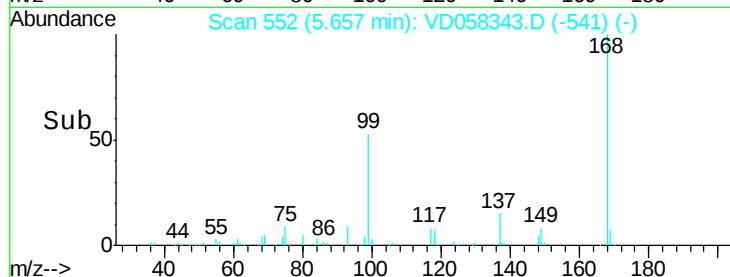
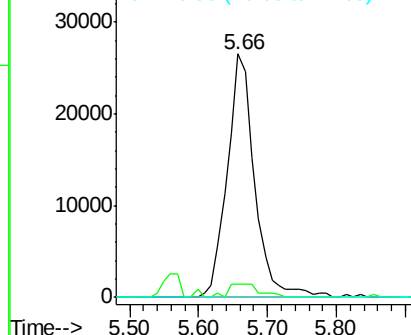
75 100

110 5.7 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): VDC
Ion 76.95 (76.65 to 77.65): VDC



#38

Carbon Tetrachloride

Concen: 6.18 ug/l

RT: 5.66 min Scan# 552

Delta R.T. -0.06 min

Lab File: VD058343.D

Acq: 23 Jun 2018 16:18

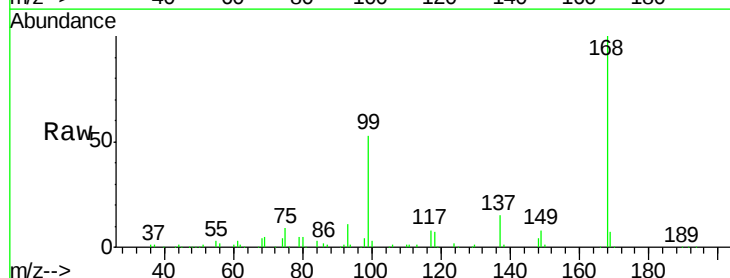
Tgt Ion: 117 Resp: 72006

Ion Ratio Lower Upper

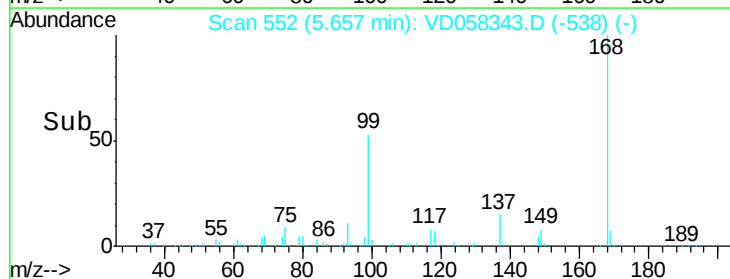
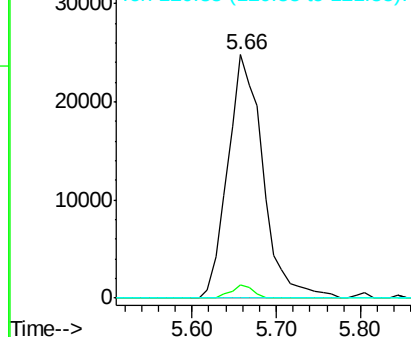
117 100

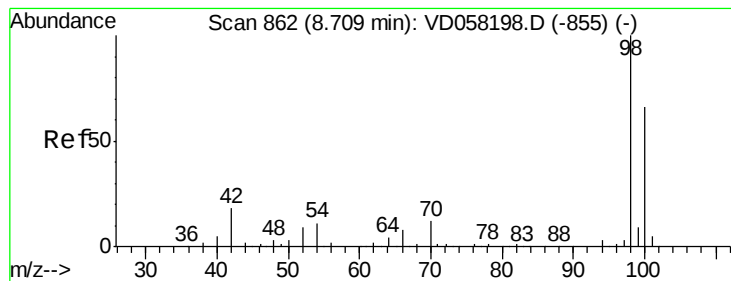
119 5.2 78.8 118.2#

121 0.0 25.0 37.6#



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





#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.72 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD058343.D

Acq: 23 Jun 2018 16:18

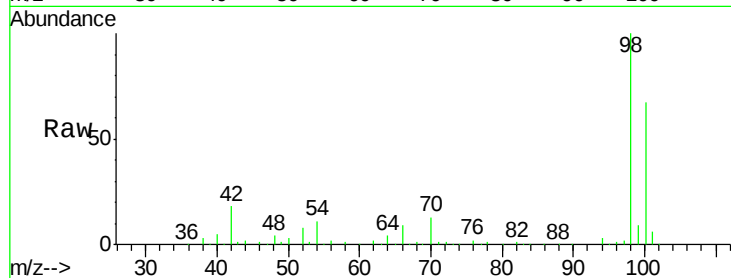
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 780683

Ion Ratio Lower Upper

98 100

100 66.9 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): VD058198.D (-855) (-)

Ion 100.05 (99.75 to 100.75): VD058198.D (-855) (-)

8.72

300000

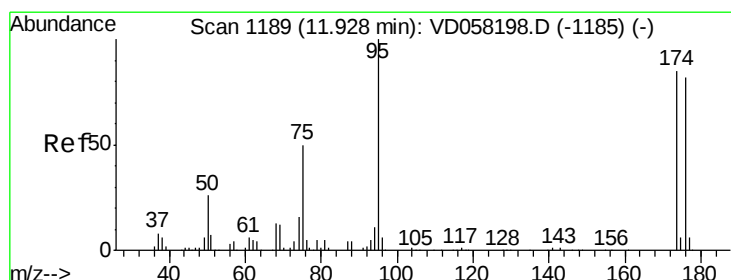
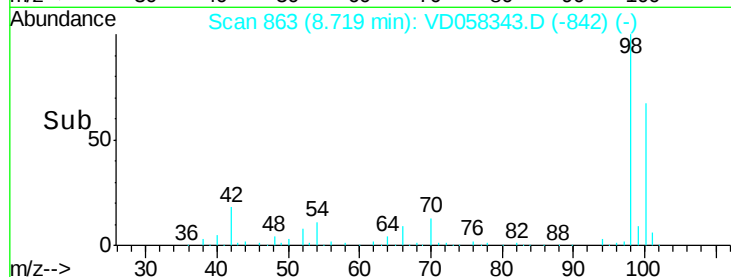
200000

100000

0

8.60 8.70 8.80 8.90

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058343.D

Acq: 23 Jun 2018 16:18

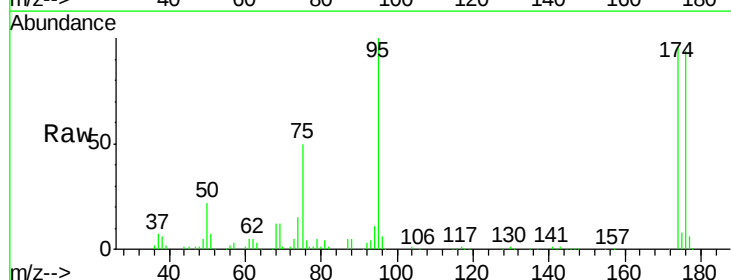
Tgt Ion: 95 Resp: 334404

Ion Ratio Lower Upper

95 100

174 96.0 0.0 170.2

176 94.5 0.0 164.6



Abundance Ion 95.00 (94.70 to 95.70): VD058198.D (-1185) (-)

Ion 173.90 (173.60 to 174.60): VD058198.D (-1185) (-)

Ion 175.90 (175.60 to 176.60): VD058198.D (-1185) (-)

11.94

300000

250000

200000

150000

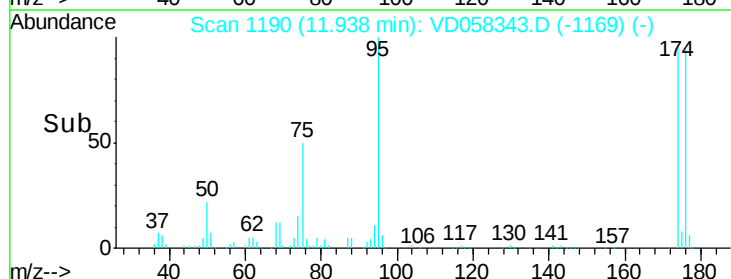
100000

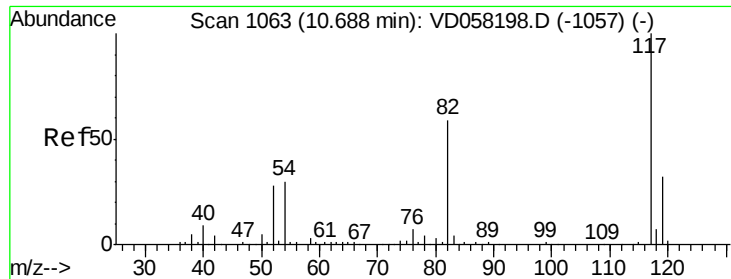
50000

0

11.90 12.00

Time-->

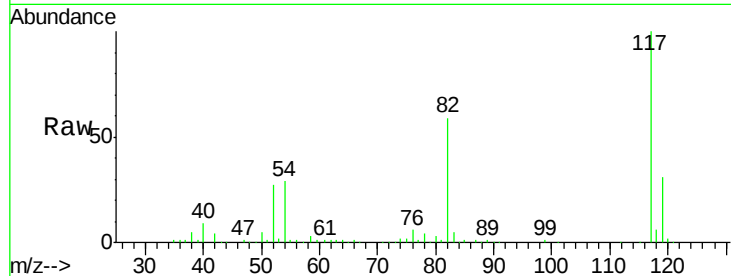




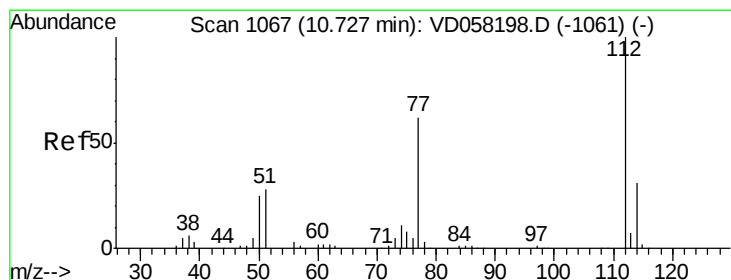
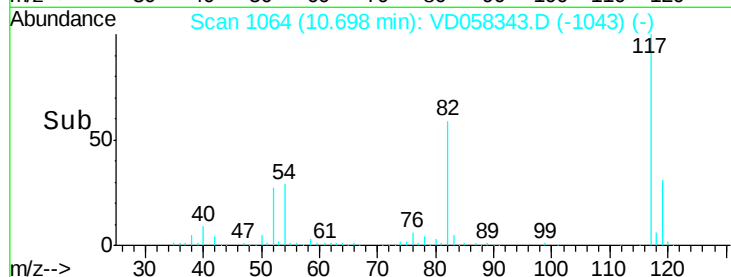
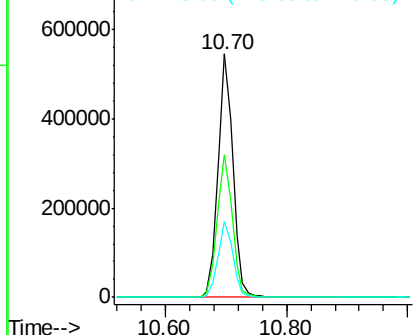
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058343.D
Acq: 23 Jun 2018 16:18

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 938310
Ion Ratio Lower Upper
117 100
82 58.7 47.0 70.6
119 31.1 25.3 37.9

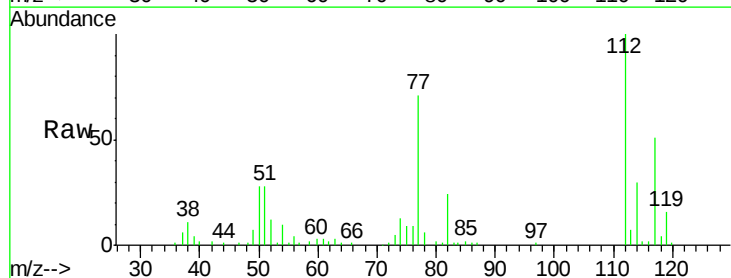


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

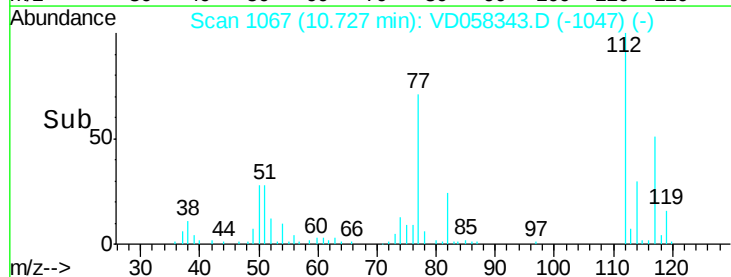
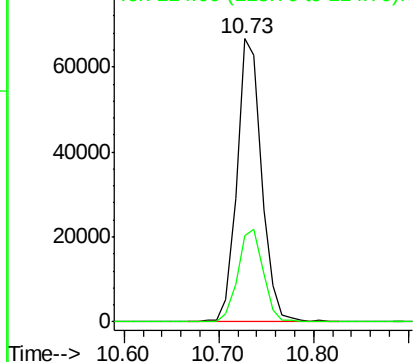


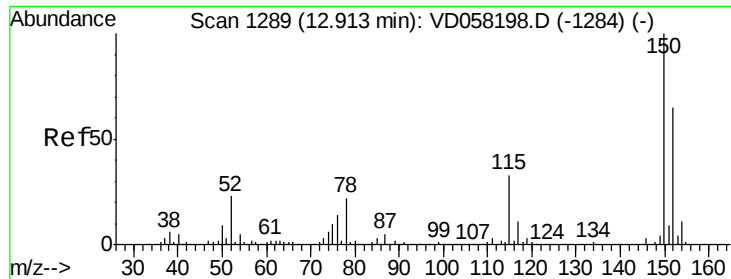
#65
Chlorobenzene
Concen: 6.82 ug/l
RT: 10.73 min Scan# 1067
Delta R.T. 0.00 min
Lab File: VD058343.D
Acq: 23 Jun 2018 16:18

Tgt Ion:112 Resp: 119740
Ion Ratio Lower Upper
112 100
114 30.4 25.0 37.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 114.00 (113.70 to 114.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.91 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VD058343.D

Acq: 23 Jun 2018 16:18

Instrument :

MSVOA_D

ClientSampleId :

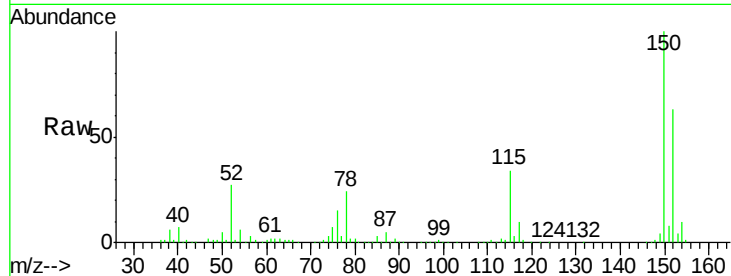
Tot Ion:152 Resp: 459296

Ion Ratio Lower Upper

152 100

115 54.1 25.1 75.3

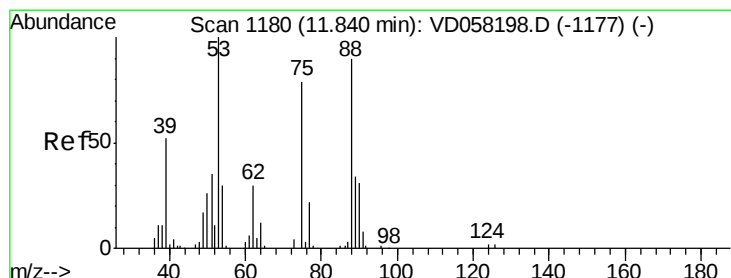
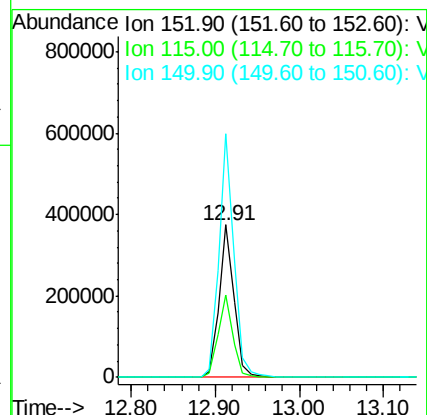
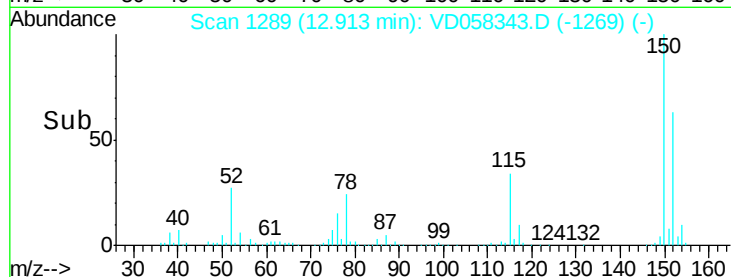
150 159.6 0.0 308.8



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: 99.66 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058343.D

Acq: 23 Jun 2018 16:18

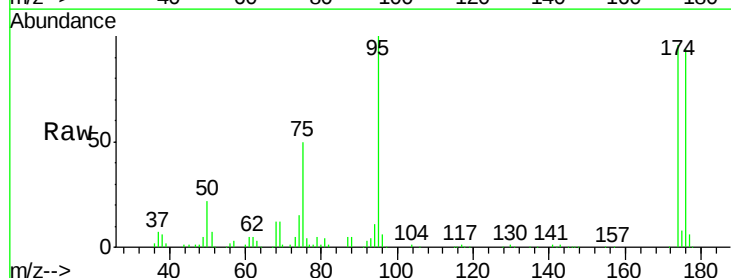
Tgt Ion: 75 Resp: 162999

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

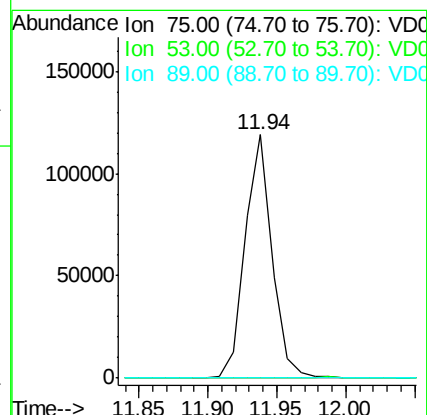
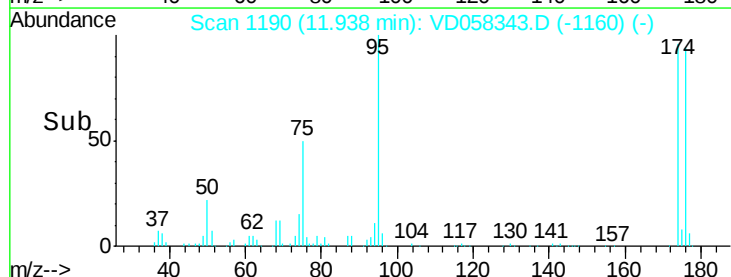
89 0.0 34.6 52.0#

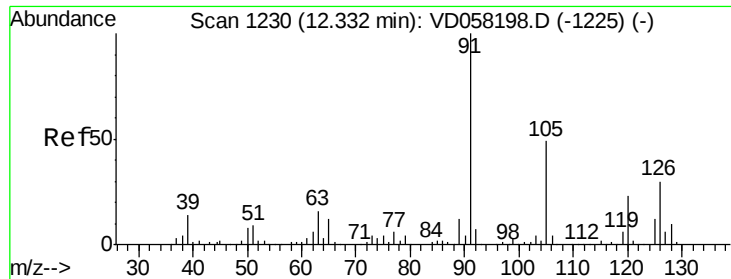


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

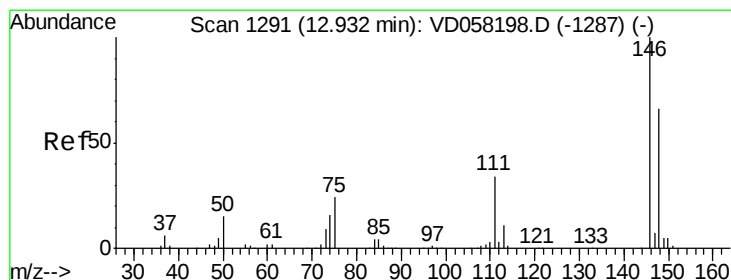
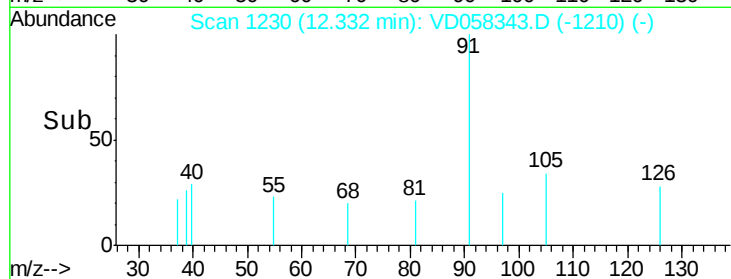
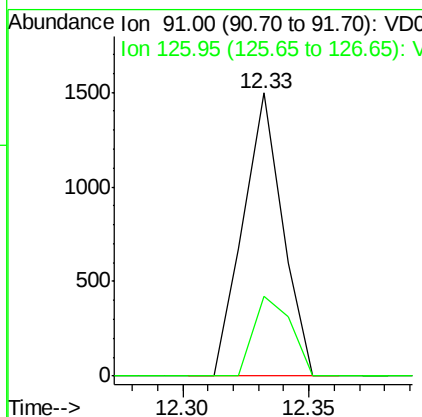
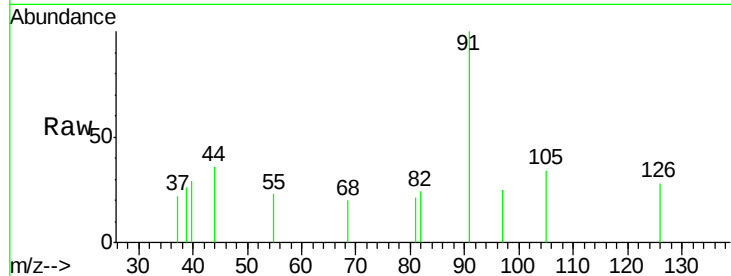




#82
 4-Chlorotoluene
 Concen: Below Cal
 RT: 12.33 min Scan# 1230
 Delta R.T. 0.00 min
 Lab File: VD058343.D
 Acq: 23 Jun 2018 16:18

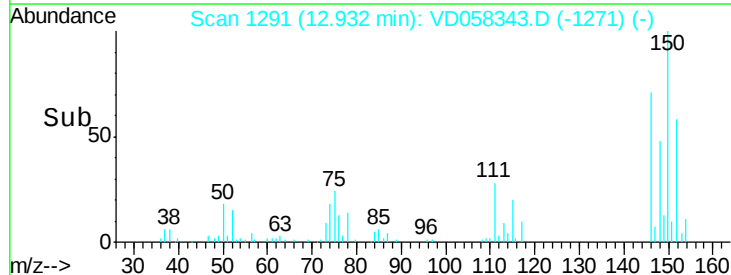
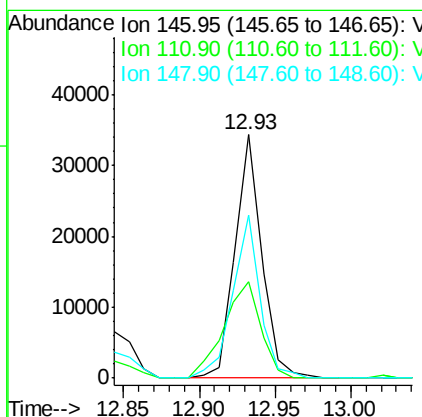
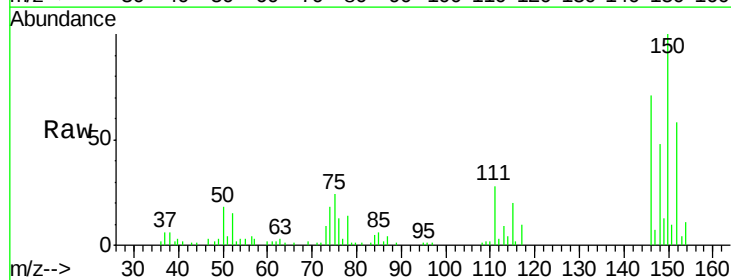
Instrument :
 MSVOA_D
 ClientSampleId :

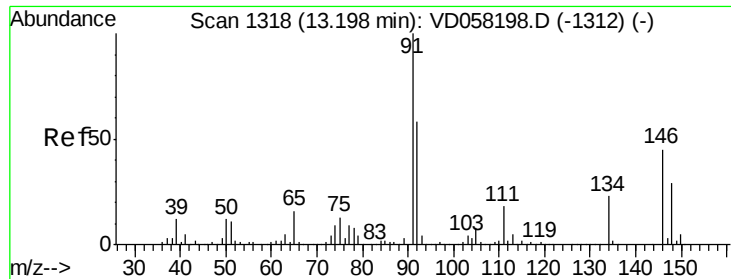
Tot Ion: 91 Resp: 1636
 Ion Ratio Lower Upper
 91 100
 126 28.1 14.9 44.9



#88
 1,4-Dichlorobenzene
 Concen: 3.00 ug/l
 RT: 12.93 min Scan# 1291
 Delta R.T. 0.00 min
 Lab File: VD058343.D
 Acq: 23 Jun 2018 16:18

Tgt Ion: 146 Resp: 41936
 Ion Ratio Lower Upper
 146 100
 111 39.5 17.2 51.5
 148 66.8 33.1 99.3

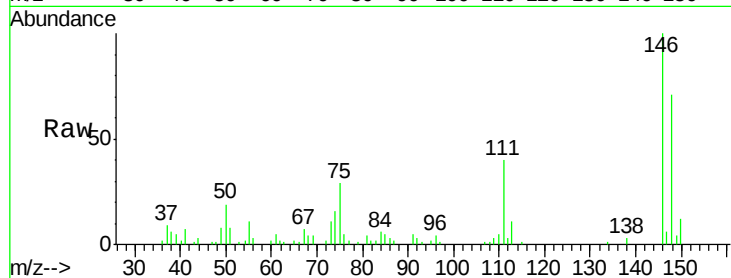




#91
 1,2-Dichlorobenzene
 Concen: 3.14 ug/l
 RT: 13.20 min Scan# 1318
 Delta R.T. 0.00 min
 Lab File: VD058343.D
 Acq: 23 Jun 2018 16:18

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:146 Resp: 38251
 Ion Ratio Lower Upper
 146 100
 111 39.5 19.6 58.7
 148 70.6 32.0 96.2



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

