

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062118\
 Data File : VD058258.D
 Acq On : 21 Jun 2018 17:56
 Operator : VA/AP
 Sample : J3598-01
 Misc : 5.45g/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 S73-9001

Quant Time: Jun 22 06:16:23 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	637490	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.69	114	849903	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	699739	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	373831	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	331786	51.53	ug/l	0.01
Spiked Amount			Recovery	=	103.06%	
35) Dibromofluoromethane	5.55	113	277294	40.09	ug/l	0.00
Spiked Amount			Recovery	=	80.18%	
50) Toluene-d8	8.71	98	779675	46.59	ug/l	0.00
Spiked Amount			Recovery	=	93.18%	
62) 4-Bromofluorobenzene	11.93	95	328775	48.09	ug/l	0.00
Spiked Amount			Recovery	=	96.18%	

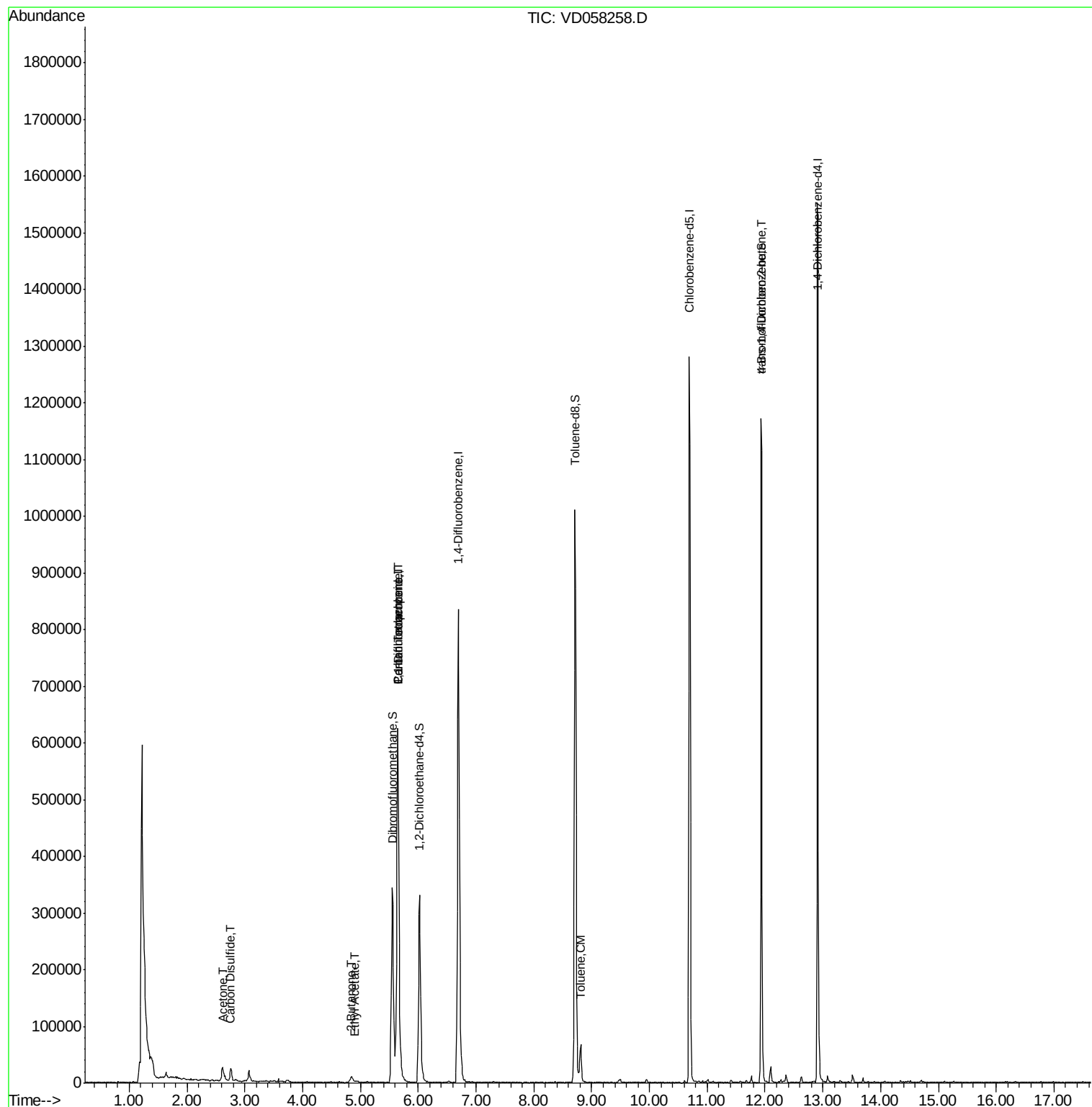
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.34	85	409	Below Cal	#	43
3) Chloromethane	1.55	50	249	Below Cal	#	43
5) Bromomethane	1.80	94	270	Below Cal	#	3
16) Acetone	2.61	43	51020	57.938	ug/l	100
17) Carbon Disulfide	2.76	76	32386	4.346	ug/l	95
20) Methylene Chloride	3.07	84	7771	Below Cal		87
25) 2-Butanone	4.85	43	15384	8.015	ug/l	92
31) Cyclohexane	5.64	56	13811	Below Cal	#	1
36) 1,1-Dichloropropene	5.65	75	52702	6.268	ug/l #	51
37) Ethyl Acetate	4.91	43	5291	1.104	ug/l #	72
38) Carbon Tetrachloride	5.65	117	51146	6.122	ug/l #	14
52) Toluene	8.81	92	31725	2.782	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.93	75	164016	123.211	ug/l #	1
82) 4-Chlorotoluene	12.32	91	549	Below Cal	#	45

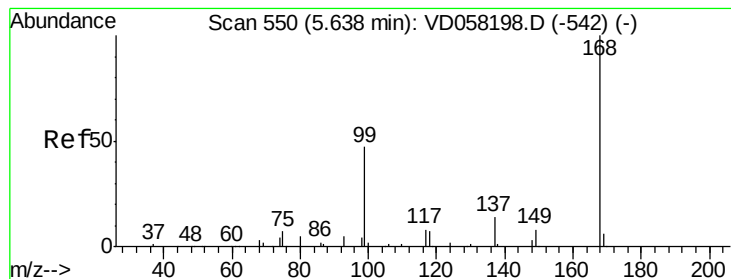
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD058258.D

Acq: 21 Jun 2018 17:56

Instrument :

MSVOA_D

ClientSampleId :

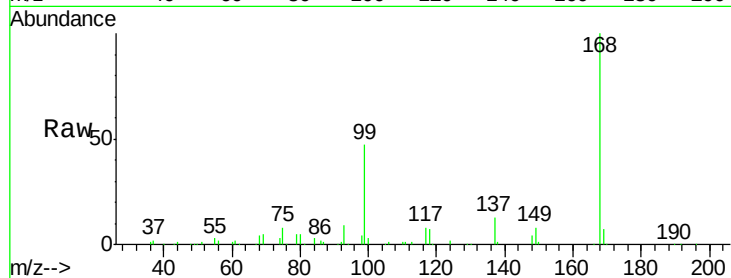
S73-9001

Tot Ion:168 Resp: 637490

Ion Ratio Lower Upper

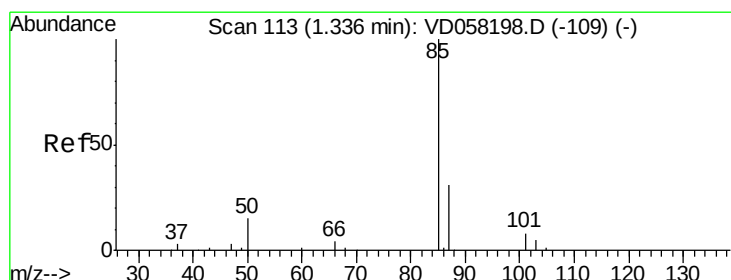
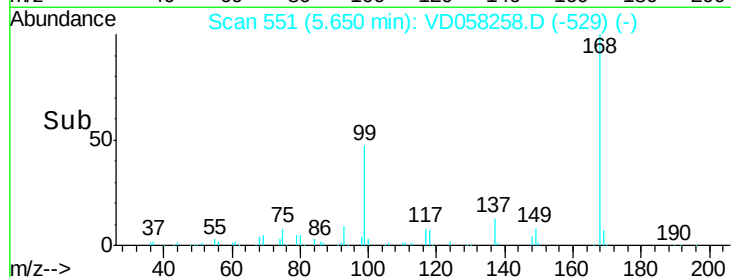
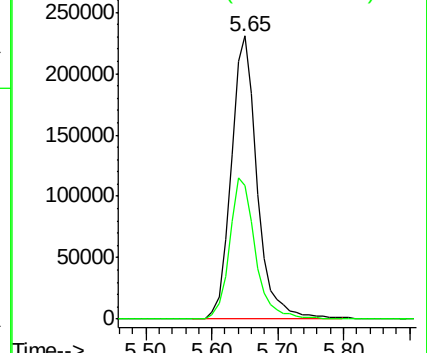
168 100

99 47.2 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: 1.34 min Scan# 113

Delta R.T. 0.00 min

Lab File: VD058258.D

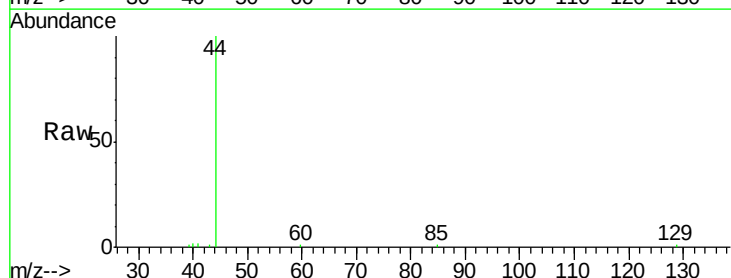
Acq: 21 Jun 2018 17:56

Tgt Ion: 85 Resp: 409

Ion Ratio Lower Upper

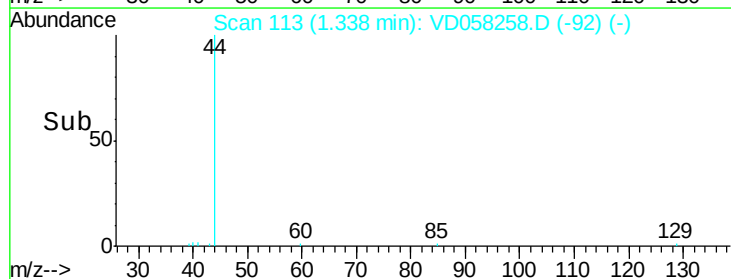
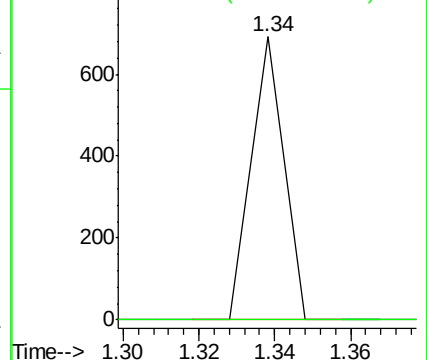
85 100

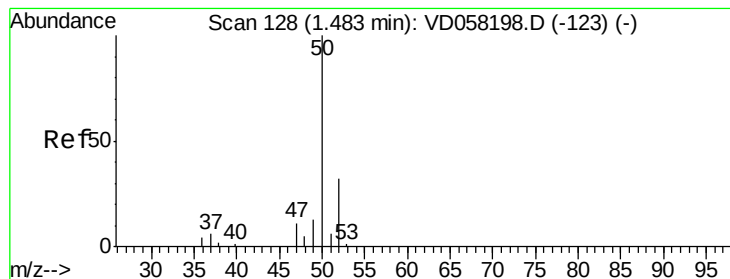
87 0.0 15.7 47.0#



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: 1.55 min Scan# 135

Delta R.T. 0.07 min

Lab File: VD058258.D

Acq: 21 Jun 2018 17:56

Instrument :

MSVOA_D

ClientSampleId :

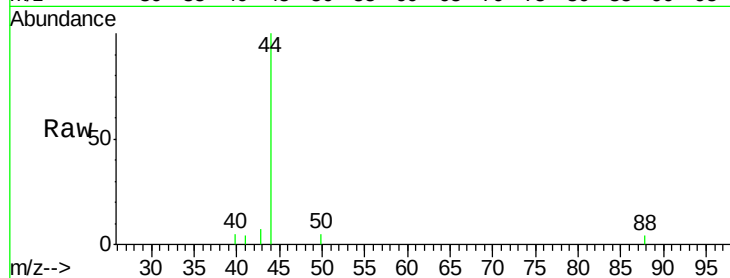
S73-9001

Tot Ion: 50 Resp: 249

Ion Ratio Lower Upper

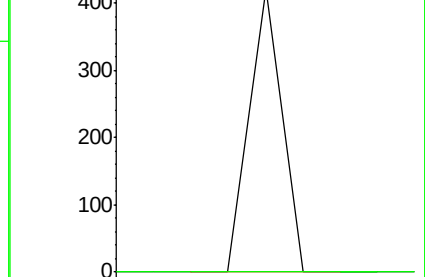
50 100

52 0.0 25.0 37.4#

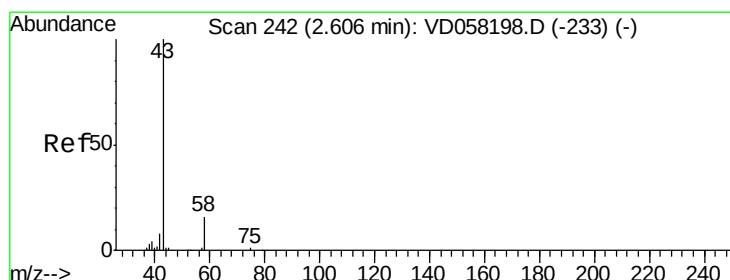
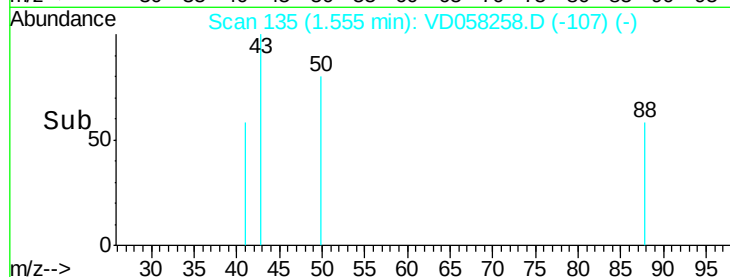


Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



Time-->



#16

Acetone

Concen: 57.938 ug/l

RT: 2.61 min Scan# 242

Delta R.T. 0.00 min

Lab File: VD058258.D

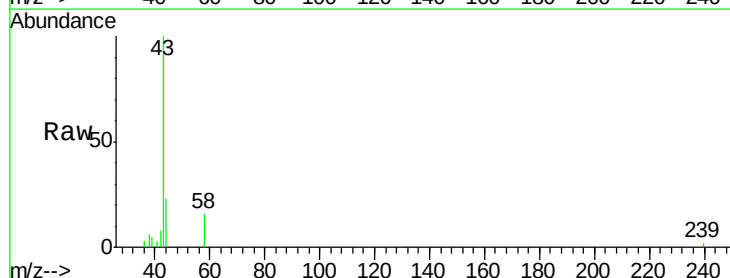
Acq: 21 Jun 2018 17:56

Tgt Ion: 43 Resp: 51020

Ion Ratio Lower Upper

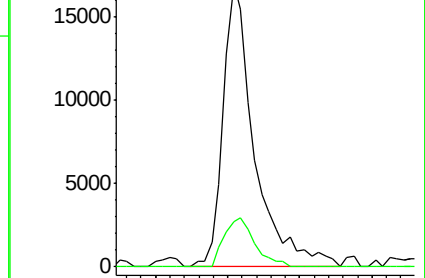
43 100

58 15.8 12.7 19.1

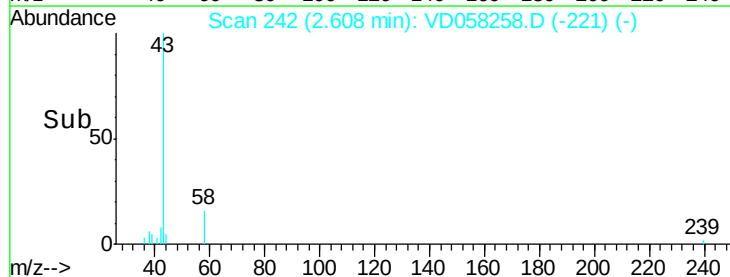


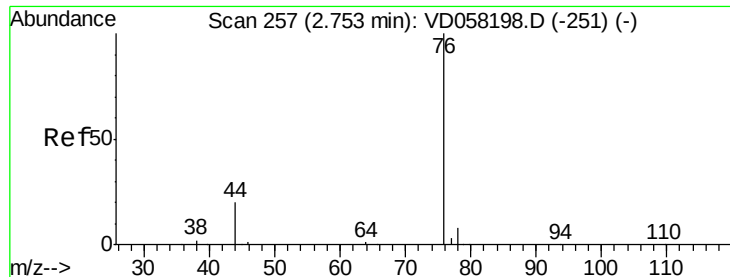
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time-->





#17

Carbon Disulfide

Concen: 4.346 ug/l

RT: 2.76 min Scan# 257

Delta R.T. 0.00 min

Lab File: VD058258.D

Acq: 21 Jun 2018 17:56

Instrument :

MSVOA_D

ClientSampleId :

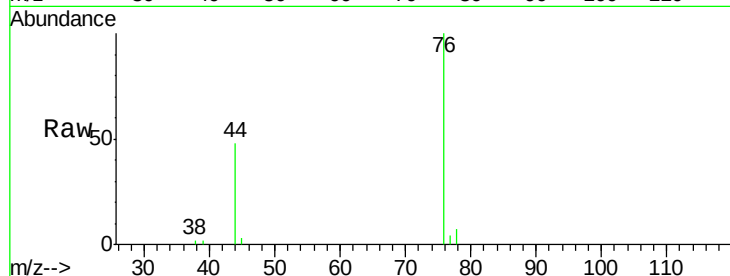
S73-9001

Tot Ion: 76 Resp: 32386

Ion Ratio Lower Upper

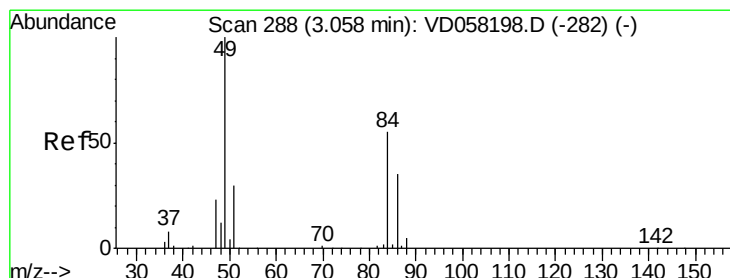
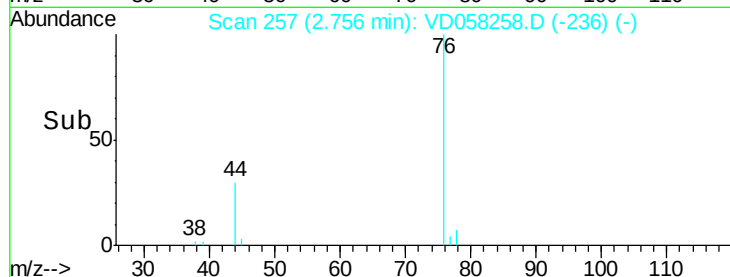
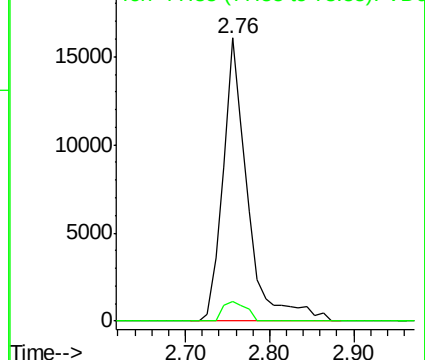
76 100

78 6.8 6.8 10.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 3.07 min Scan# 289

Delta R.T. 0.01 min

Lab File: VD058258.D

Acq: 21 Jun 2018 17:56

Tgt Ion: 84 Resp: 7771

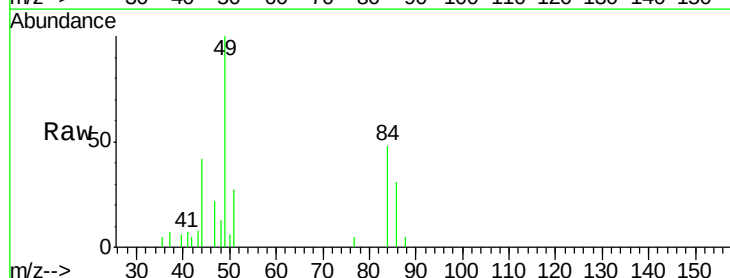
Ion Ratio Lower Upper

84 100

49 208.6 145.0 217.6

51 57.3 42.9 64.3

86 65.4 50.1 75.1

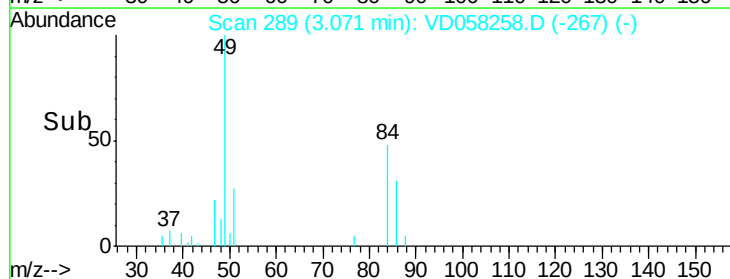
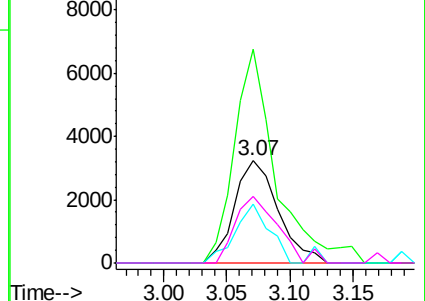


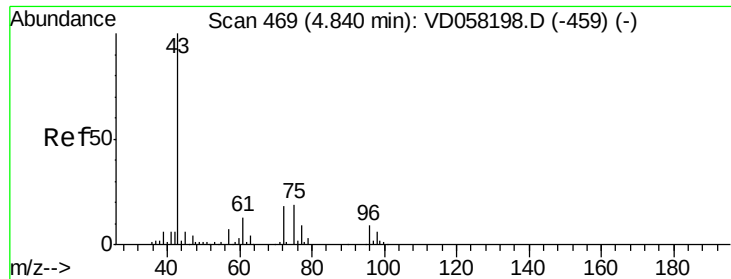
Abundance Ion 83.95 (83.65 to 84.65): VDC

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

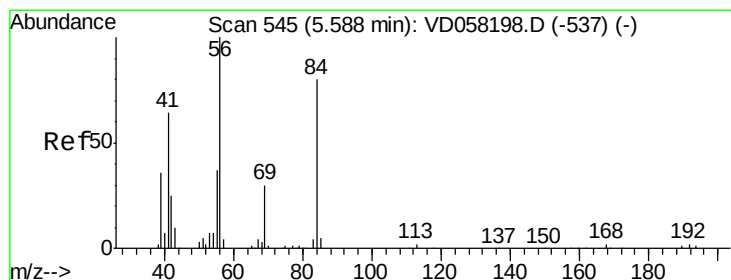
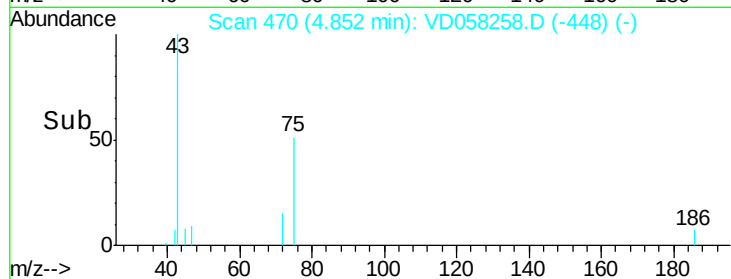
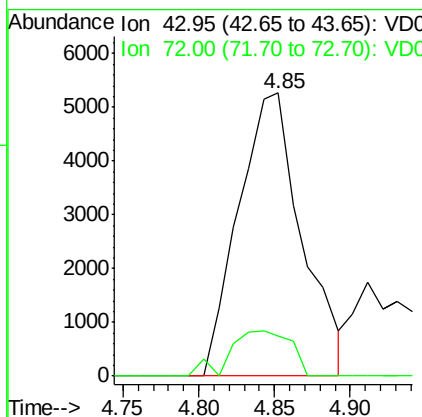
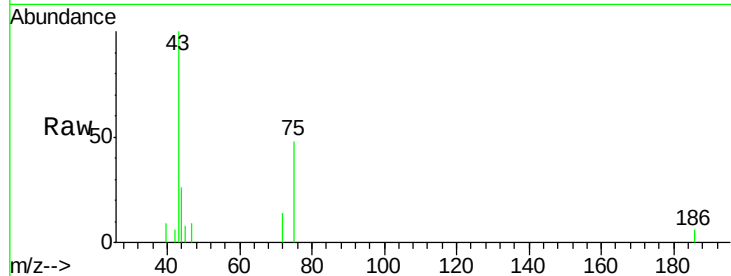




#25
2-Butanone
Concen: 8.015 ug/l
RT: 4.85 min Scan# 470
Delta R.T. 0.01 min
Lab File: VD058258.D
Acq: 21 Jun 2018 17:56

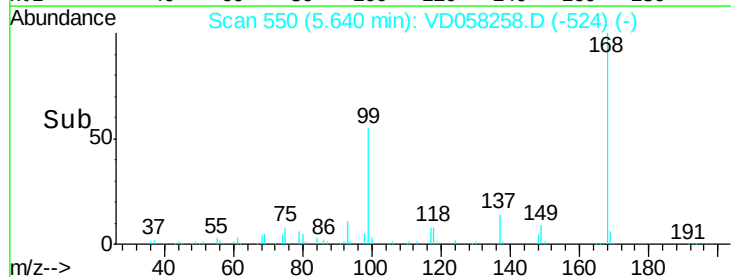
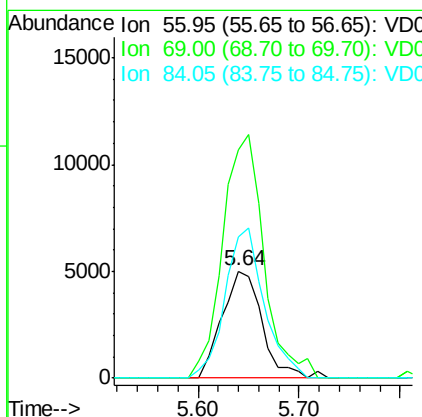
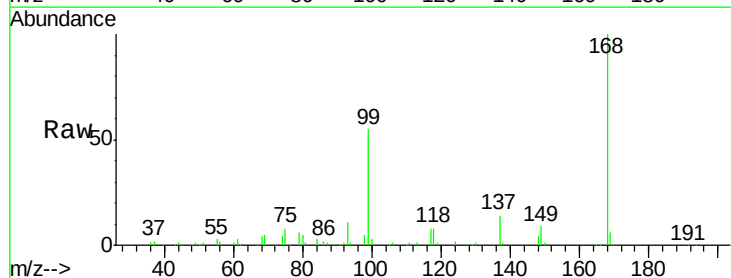
Instrument :
MSVOA_D
ClientSampled :
S73-9001

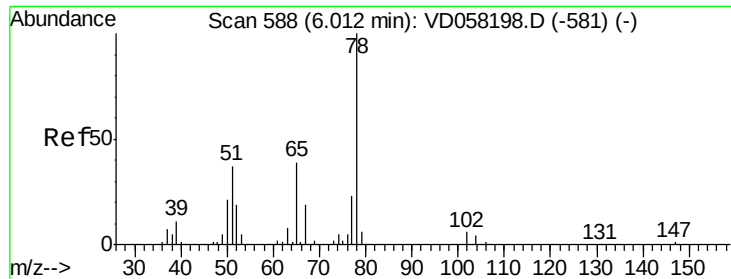
Tot Ion: 43 Resp: 15384
Ion Ratio Lower Upper
43 100
72 14.1 14.1 21.1



#31
Cyclohexane
Concen: Below Cal
RT: 5.64 min Scan# 550
Delta R.T. 0.05 min
Lab File: VD058258.D
Acq: 21 Jun 2018 17:56

Tgt Ion: 56 Resp: 13811
Ion Ratio Lower Upper
56 100
69 213.4 23.6 35.4#
84 132.1 65.2 97.8#

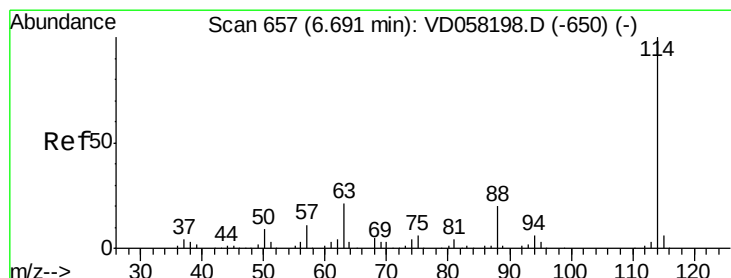
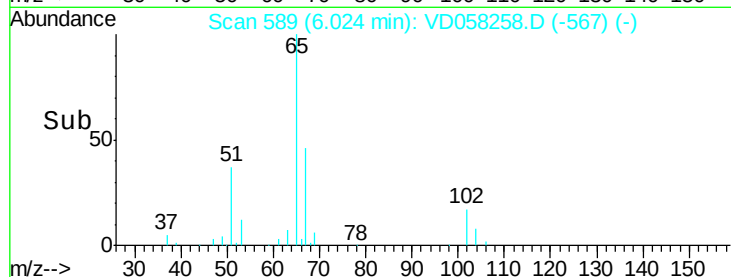
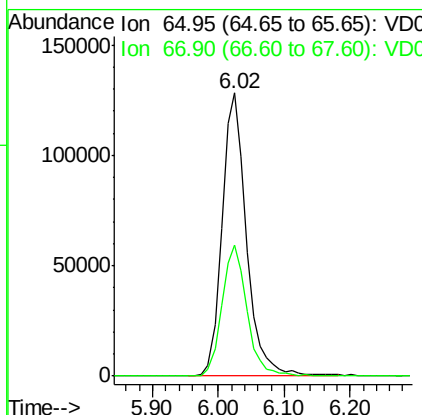
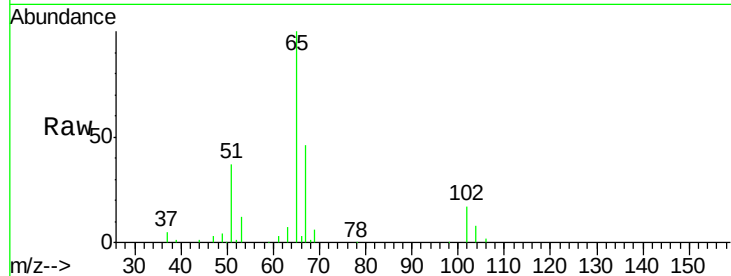




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.02 min Scan# 589
 Delta R.T. 0.01 min
 Lab File: VD058258.D
 Acq: 21 Jun 2018 17:56

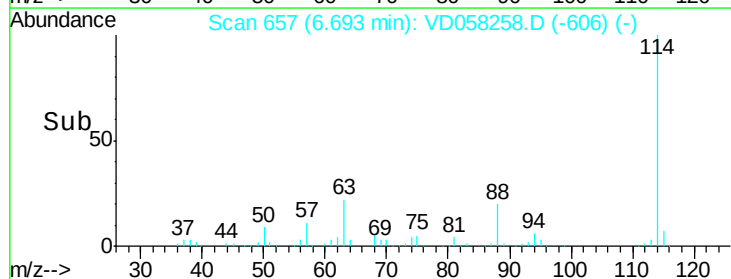
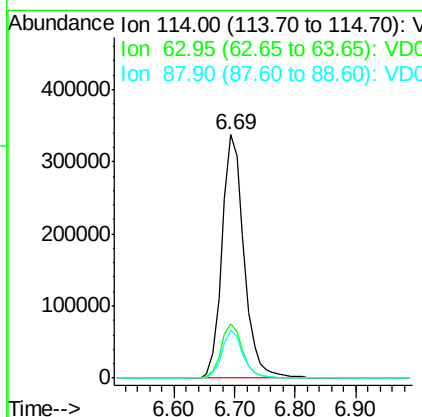
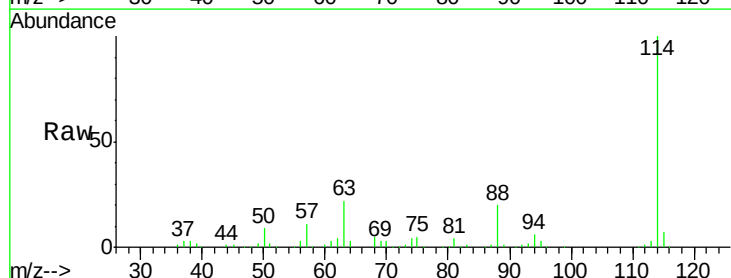
Instrument :
 MSVOA_D
 ClientSampleId :
 S73-9001

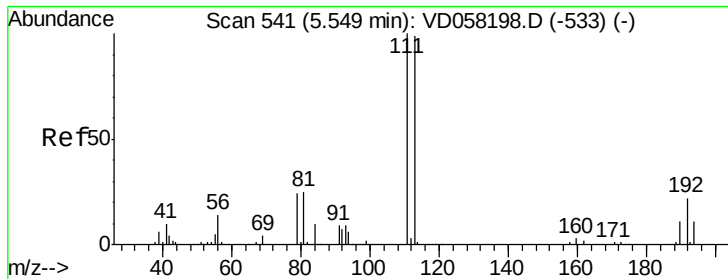
Tot Ion: 65 Resp: 331786
 Ion Ratio Lower Upper
 65 100
 67 46.3 0.0 97.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.69 min Scan# 657
 Delta R.T. 0.00 min
 Lab File: VD058258.D
 Acq: 21 Jun 2018 17:56

Tgt Ion: 114 Resp: 849903
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 42.6
 88 19.6 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: VD058258.D

Acq: 21 Jun 2018 17:56

Instrument :

MSVOA_D

ClientSampled :

S73-9001

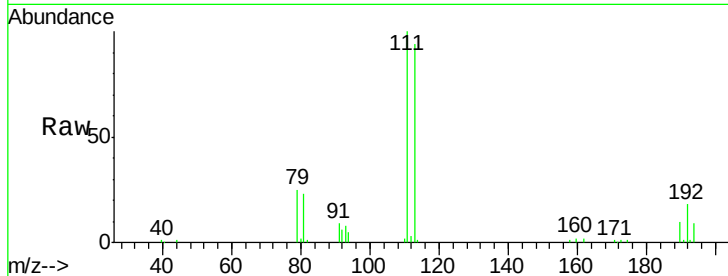
Tot Ion:113 Resp: 277294

Ion Ratio Lower Upper

113 100

111 106.2 80.6 121.0

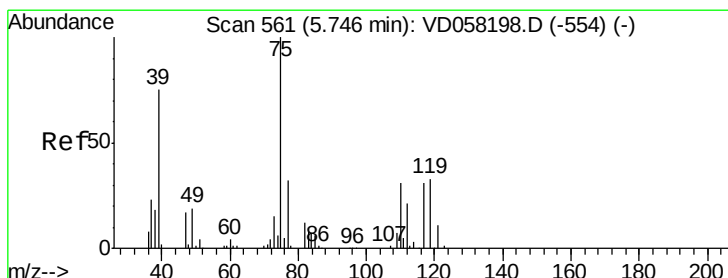
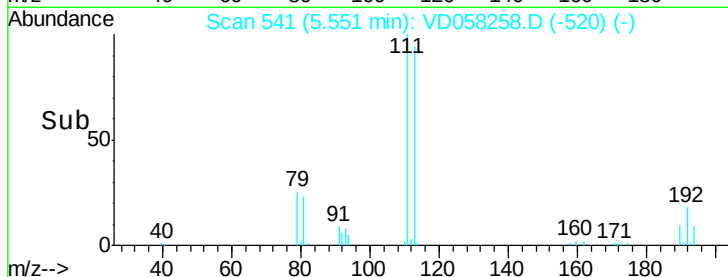
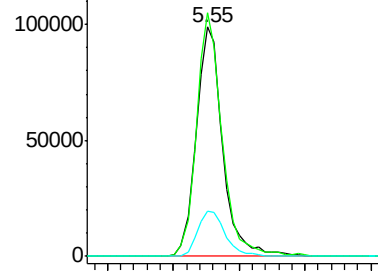
192 19.5 17.8 26.6



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: 6.268 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.10 min

Lab File: VD058258.D

Acq: 21 Jun 2018 17:56

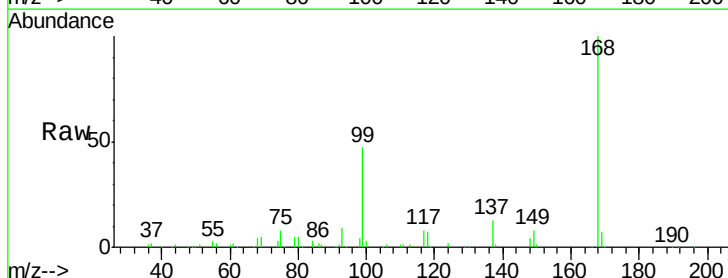
Tgt Ion: 75 Resp: 52702

Ion Ratio Lower Upper

75 100

110 8.2 15.4 46.4#

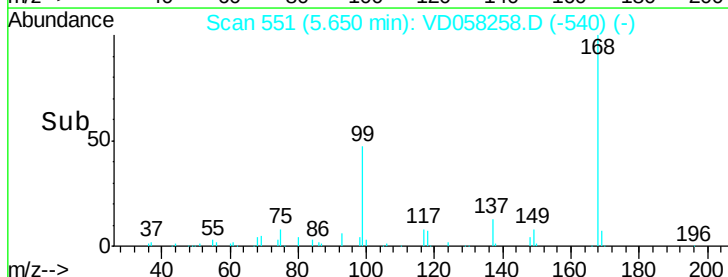
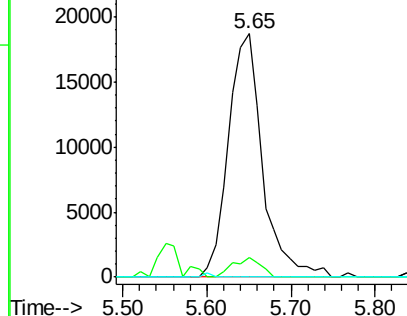
77 0.0 25.4 38.2#

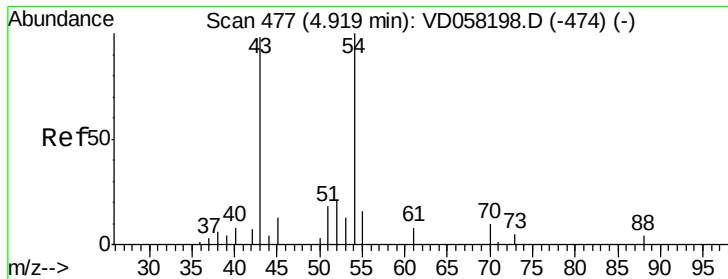


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#37

Ethyl Acetate

Concen: 1.104 ug/l

RT: 4.91 min Scan# 476

Delta R.T. -0.01 min

Lab File: VD058258.D

Acq: 21 Jun 2018 17:56

Instrument :

MSVOA_D

ClientSampleId :

S73-9001

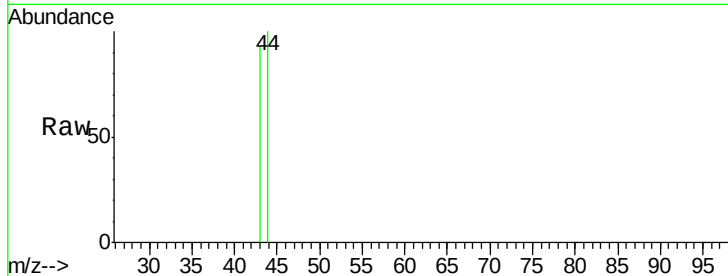
Tot Ion: 43 Resp: 5291

Ion Ratio Lower Upper

43 100

61 0.0 10.3 15.5#

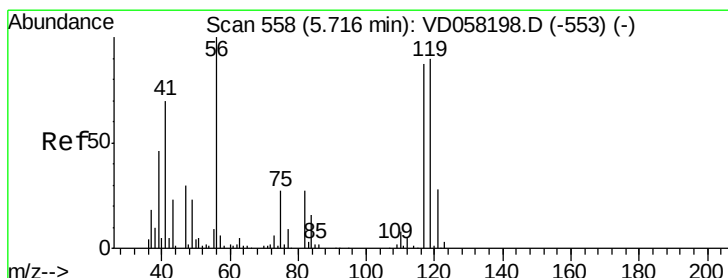
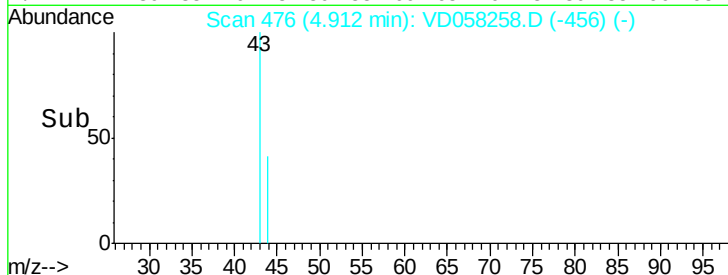
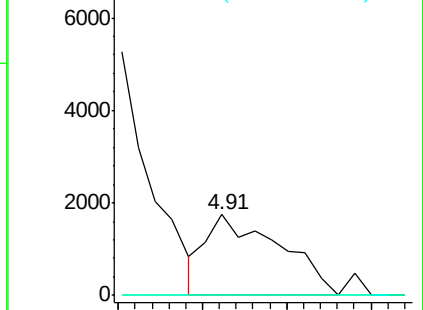
70 0.0 5.7 8.5#



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: 6.122 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.07 min

Lab File: VD058258.D

Acq: 21 Jun 2018 17:56

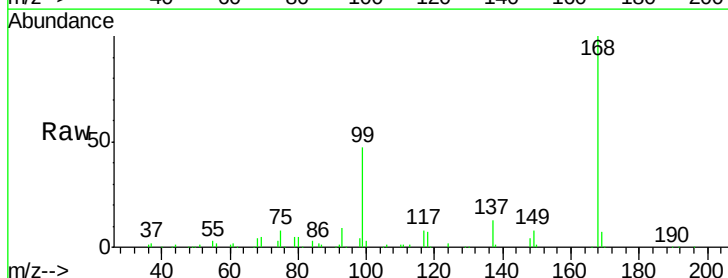
Tgt Ion: 117 Resp: 51146

Ion Ratio Lower Upper

117 100

119 4.1 78.8 118.2#

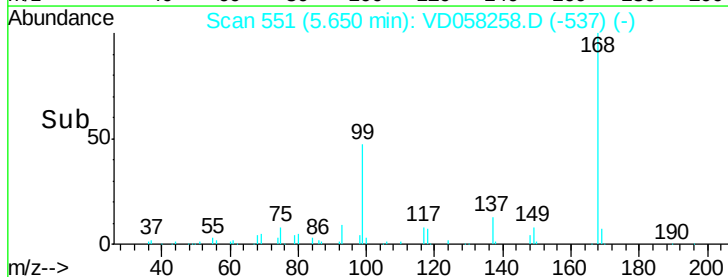
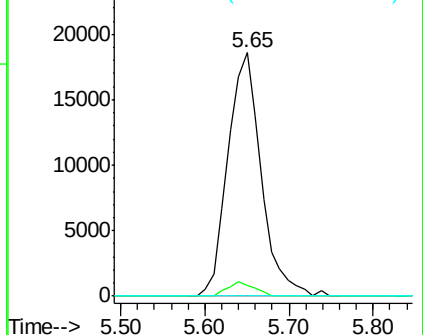
121 0.0 25.0 37.6#

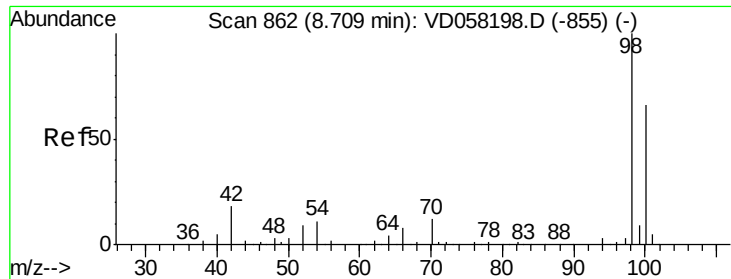


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

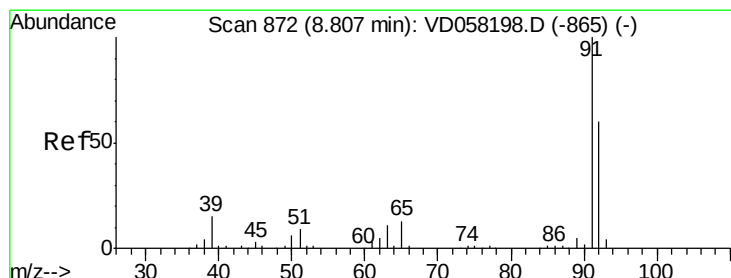
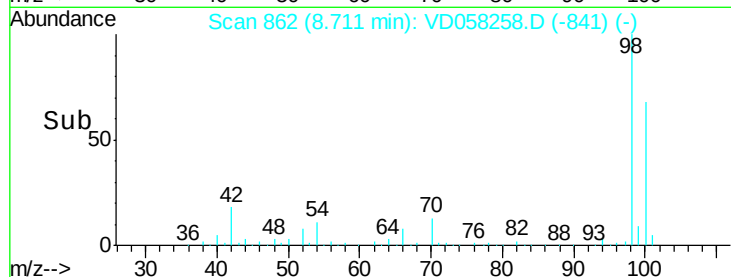
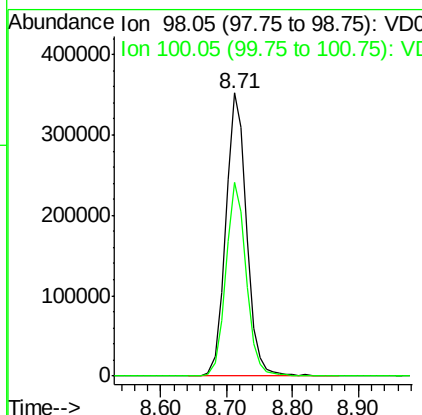
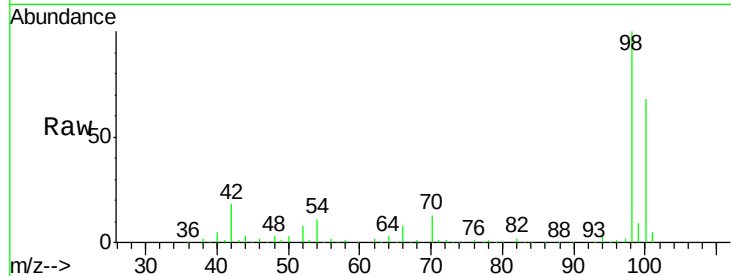




#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.71 min Scan# 862
Delta R.T. 0.00 min
Lab File: VD058258.D
Acq: 21 Jun 2018 17:56

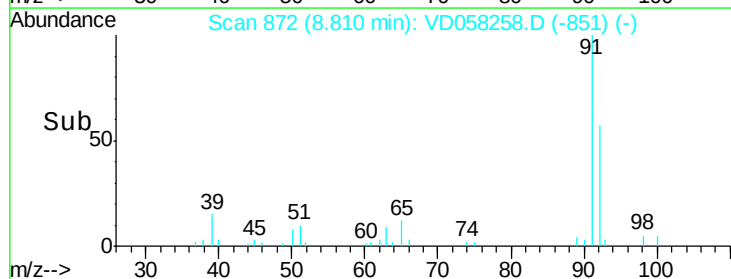
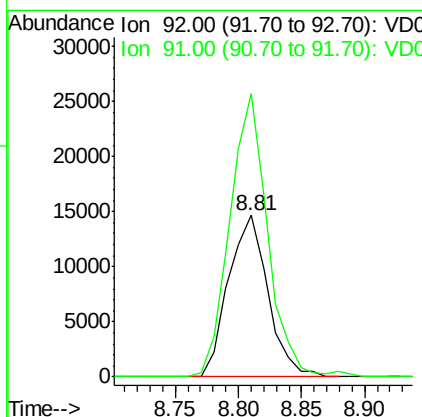
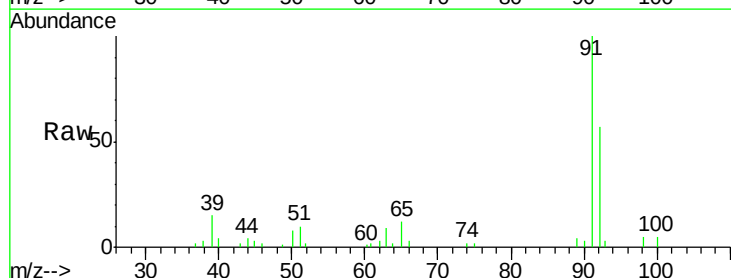
Instrument :
MSVOA_D
ClientSampleId :
S73-9001

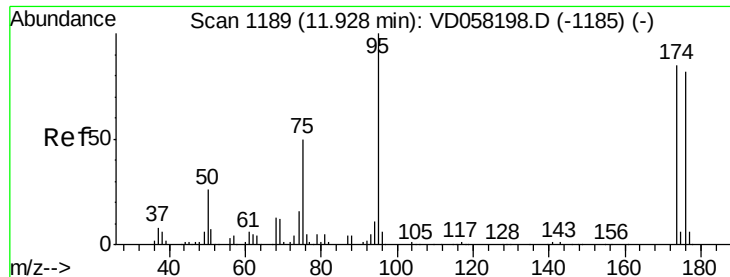
Tot Ion: 98 Resp: 779675
Ion Ratio Lower Upper
98 100
100 68.4 53.6 80.4



#52
Toluene
Concen: 2.782 ug/l
RT: 8.81 min Scan# 872
Delta R.T. 0.00 min
Lab File: VD058258.D
Acq: 21 Jun 2018 17:56

Tgt Ion: 92 Resp: 31725
Ion Ratio Lower Upper
92 100
91 175.3 133.2 199.8





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VD058258.D

Acq: 21 Jun 2018 17:56

Instrument :

MSVOA_D

ClientSampleId :

S73-9001

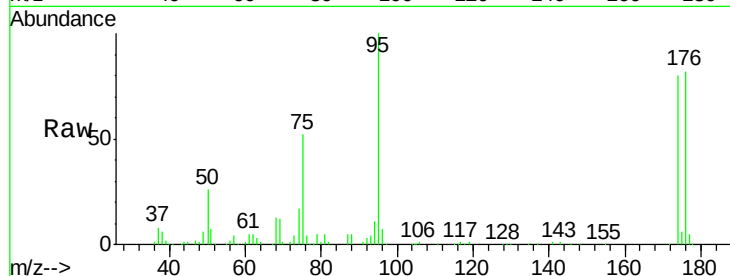
Tot Ion: 95 Resp: 328775

Ion Ratio Lower Upper

95 100

174 80.4 0.0 170.2

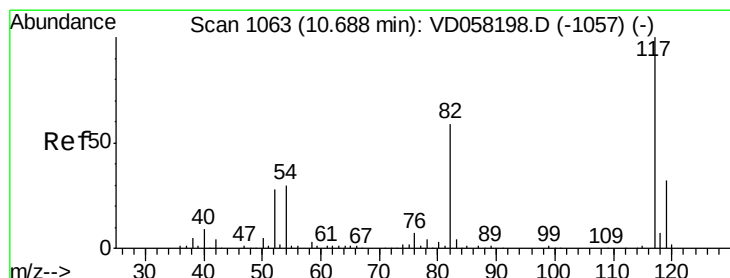
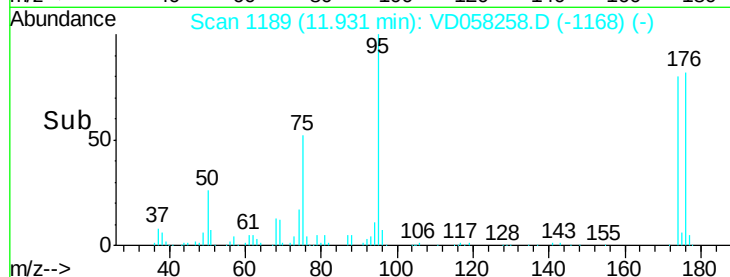
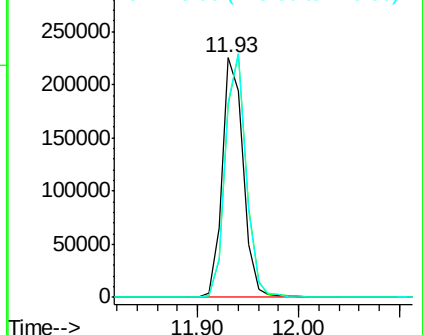
176 81.6 0.0 164.6



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: VD058258.D

Acq: 21 Jun 2018 17:56

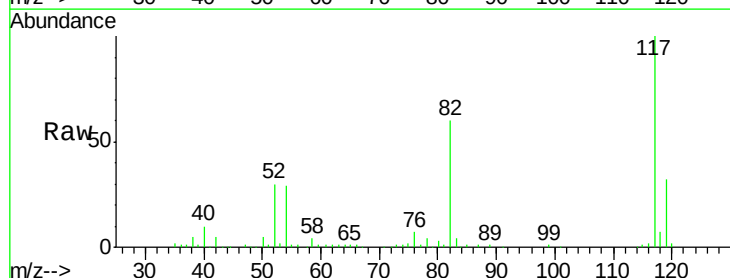
Tgt Ion: 117 Resp: 699739

Ion Ratio Lower Upper

117 100

82 60.3 47.0 70.6

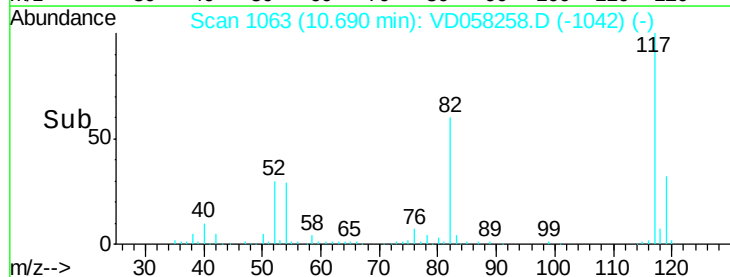
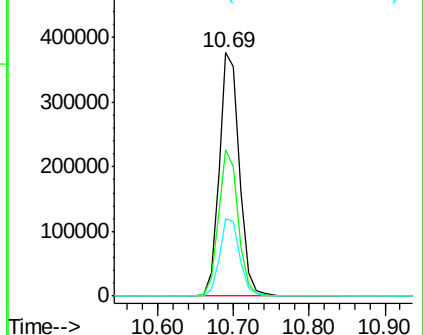
119 31.7 25.3 37.9

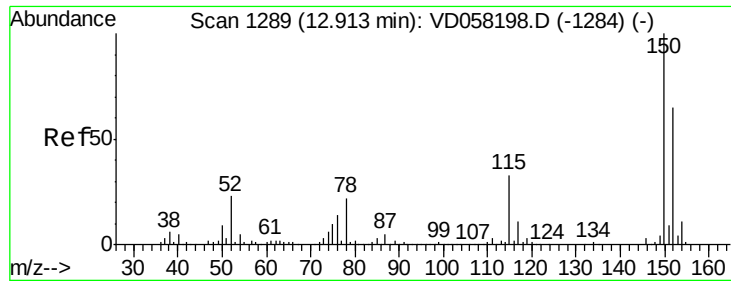


Abundance Ion 116.95 (116.65 to 117.65): V

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# 1289

Delta R.T. 0.00 min

Lab File: VD058258.D

Acq: 21 Jun 2018 17:56

Instrument :

MSVOA_D

ClientSampleId :

S73-9001

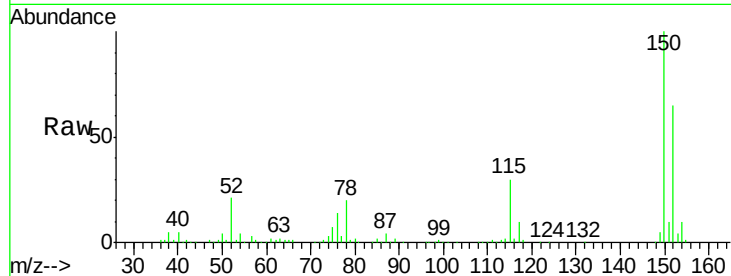
Tot Ion:152 Resp: 373831

Ion Ratio Lower Upper

152 100

115 46.8 25.1 75.3

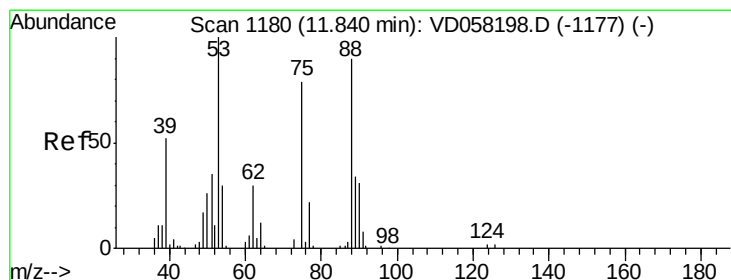
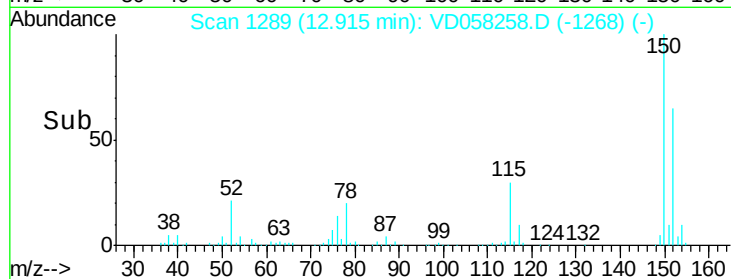
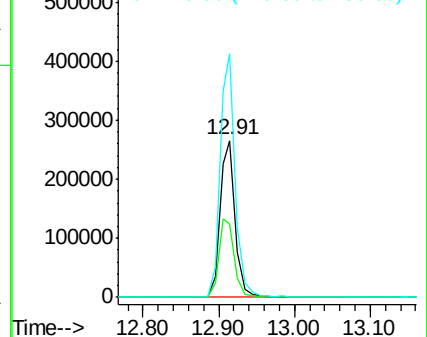
150 154.9 0.0 308.8



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: 123.211 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058258.D

Acq: 21 Jun 2018 17:56

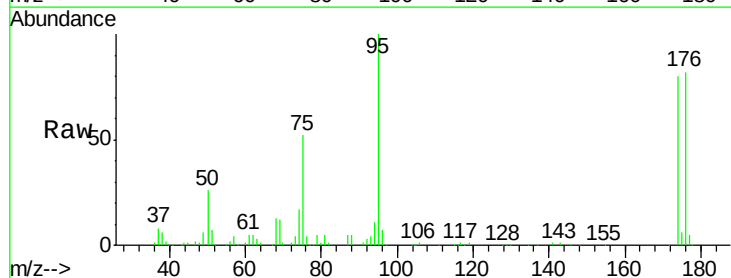
Tgt Ion: 75 Resp: 164016

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

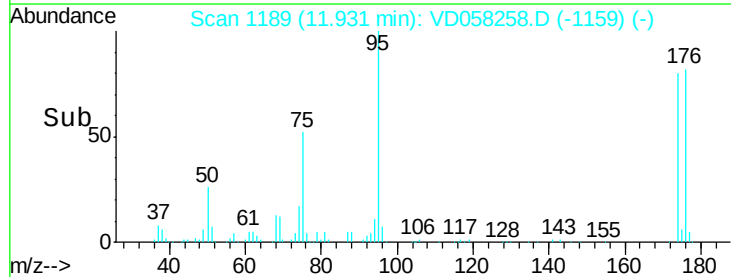
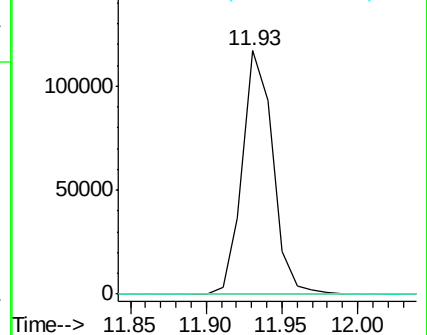
89 0.0 34.6 52.0#

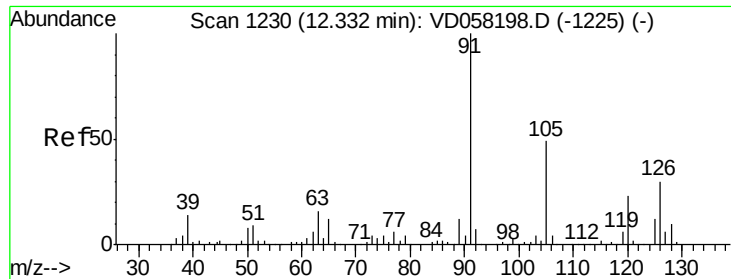


Abundance Ion 75.00 (74.70 to 75.70): VDC

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: 12.32 min Scan# 1229
 Delta R.T. -0.01 min
 Lab File: VD058258.D
 Acq: 21 Jun 2018 17:56

Instrument :
 MSVOA_D
 ClientSampleId :
 S73-9001

Tot Ion: 91 Resp: 549
 Ion Ratio Lower Upper
 91 100
 126 0.0 14.9 44.9#

