

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062118\
 Data File : VD058252.D
 Acq On : 21 Jun 2018 15:06
 Operator : VA/AP
 Sample : J3245-15RE
 Misc : 6.02g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CL-02-061918-D

Quant Time: Jun 22 06:15:13 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	681691	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.70	114	901345	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.70	117	699297	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.91	152	326748	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	364054	52.87	ug/l	0.01
Spiked Amount			Recovery	=	105.74%	
35) Dibromofluoromethane	5.56	113	382064	52.08	ug/l	0.01
Spiked Amount			Recovery	=	104.16%	
50) Toluene-d8	8.72	98	842803	47.49	ug/l	0.01
Spiked Amount			Recovery	=	94.98%	
62) 4-Bromofluorobenzene	11.94	95	327861	45.22	ug/l	0.01
Spiked Amount			Recovery	=	90.44%	

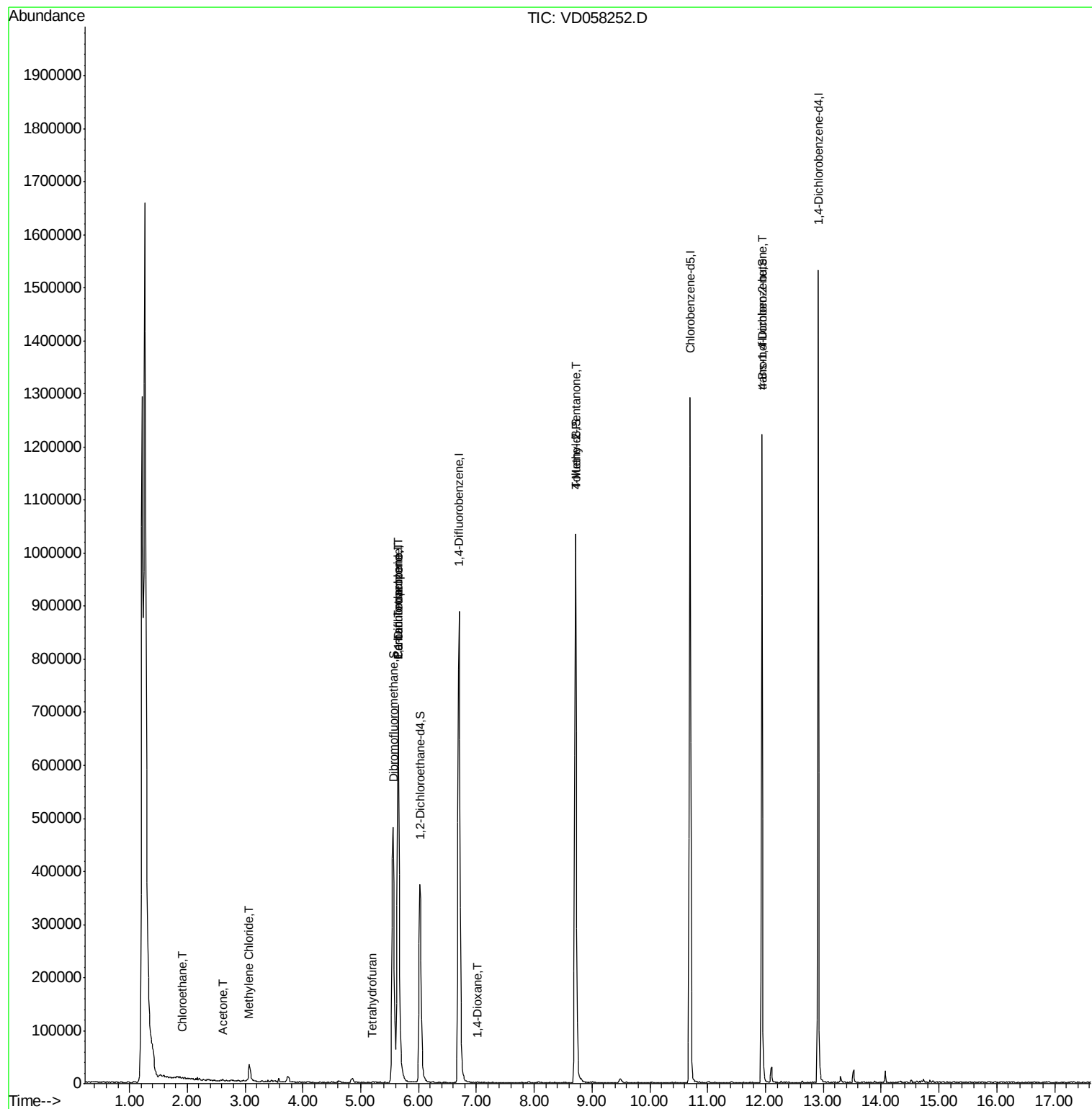
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.36	85	295	Below Cal	#	43
5) Bromomethane	1.76	94	191	Below Cal	#	3
6) Chloroethane	1.92	64	226	1.552	ug/l #	41
16) Acetone	2.62	43	4295	4.561	ug/l #	58
20) Methylene Chloride	3.07	84	14222	1.127	ug/l	92
29) Tetrahydrofuran	5.20	42	1407	1.288	ug/l #	37
31) Cyclohexane	5.65	56	16309	Below Cal	#	1
36) 1,1-Dichloropropene	5.65	75	56262	6.310	ug/l #	49
38) Carbon Tetrachloride	5.65	117	54785	6.184	ug/l #	15
49) 1,4-Dioxane	7.03	88	224	6.028	ug/l #	26
51) 4-Methyl-2-Pentanone	8.71	43	5723	1.295	ug/l #	1
81) trans-1,4-Dichloro-2-buten	11.94	75	159838	137.375	ug/l #	1
82) 4-Chlorotoluene	12.32	91	699	Below Cal	#	45

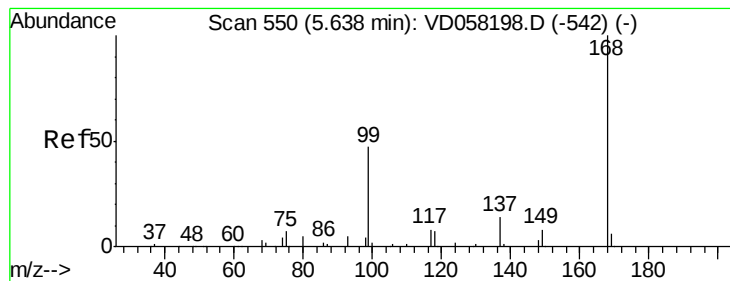
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.01 min

Lab File: VD058252.D

Acq: 21 Jun 2018 15:06

Instrument :

MSVOA_D

ClientSampleId :

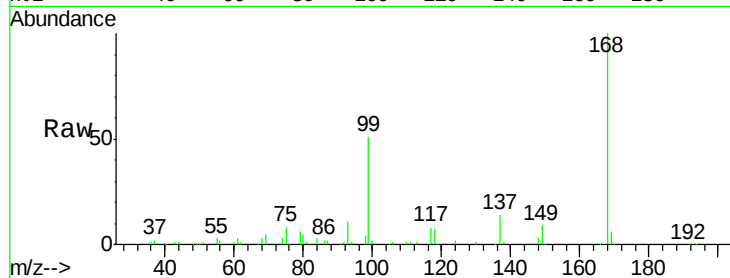
CL-02-061918-D

Tot Ion:168 Resp: 681691

Ion Ratio Lower Upper

168 100

99 50.8 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.65

250000

150000

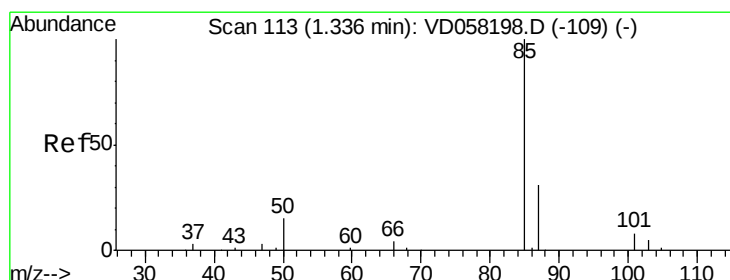
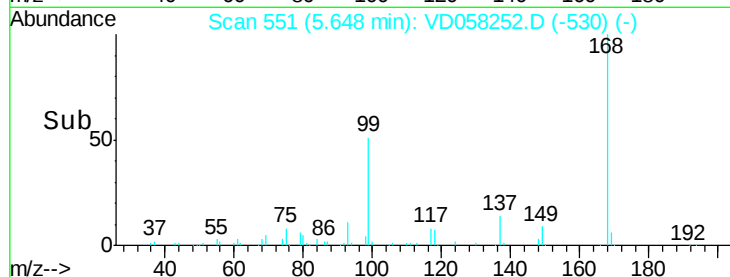
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.36 min Scan# 115

Delta R.T. 0.02 min

Lab File: VD058252.D

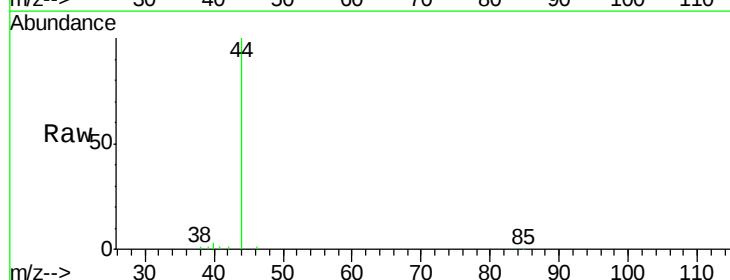
Acq: 21 Jun 2018 15:06

Tgt Ion: 85 Resp: 295

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

1.36

500

400

300

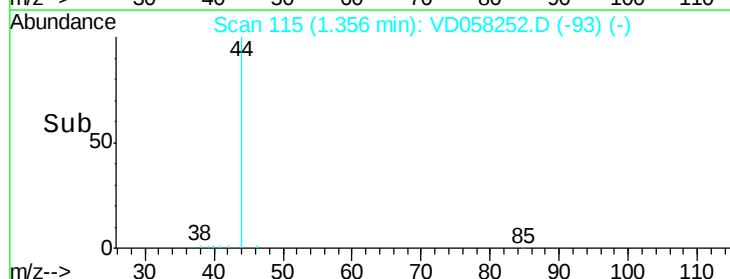
200

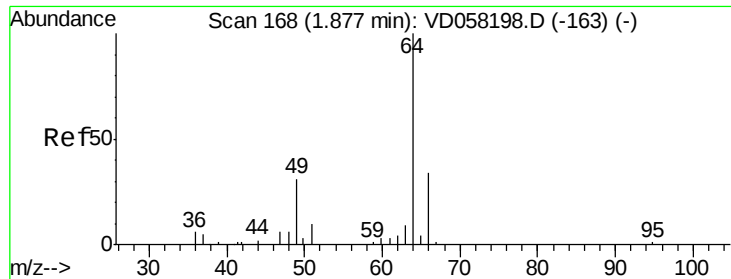
100

0

Time-->

1.32 1.34 1.36 1.38





#6

Chloroethane

Concen: 1.552 ug/l

RT: 1.92 min Scan# 172

Delta R.T. 0.04 min

Lab File: VD058252.D

Acq: 21 Jun 2018 15:06

Instrument :

MSVOA_D

ClientSampleId :

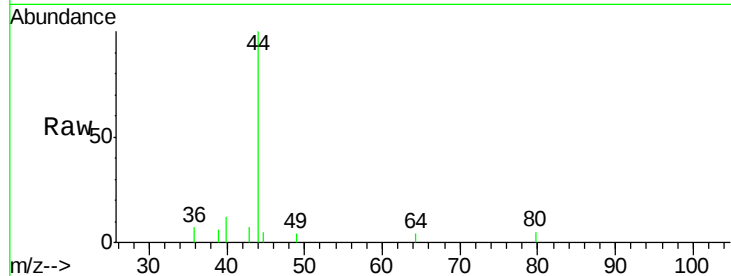
CL-02-061918-D

Tot Ion: 64 Resp: 226

Ion Ratio Lower Upper

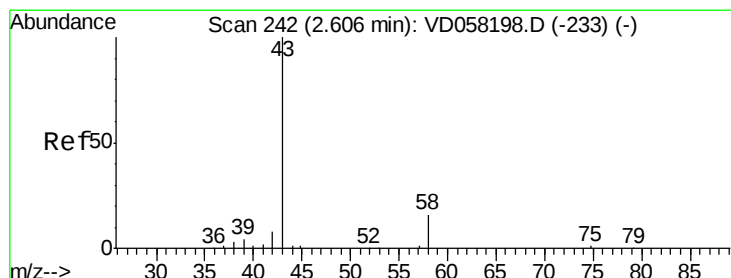
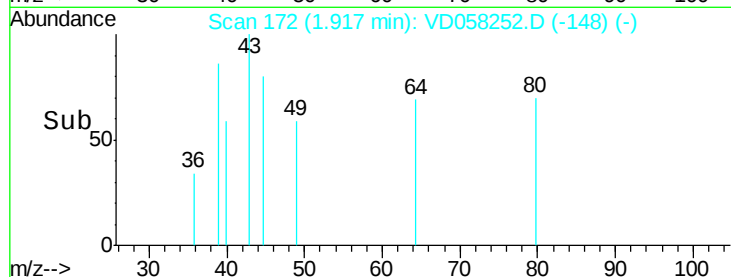
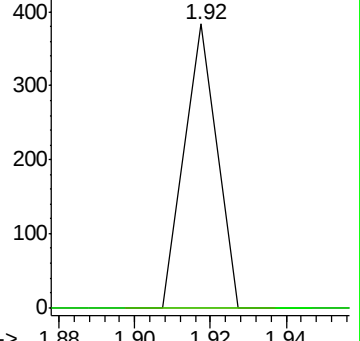
64 100

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



#16

Acetone

Concen: 4.561 ug/l

RT: 2.62 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD058252.D

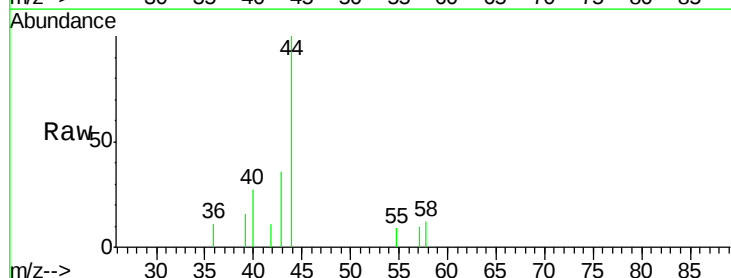
Acq: 21 Jun 2018 15:06

Tgt Ion: 43 Resp: 4295

Ion Ratio Lower Upper

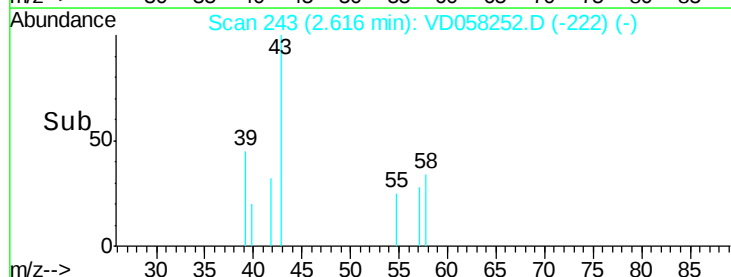
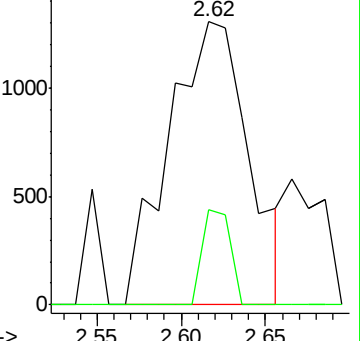
43 100

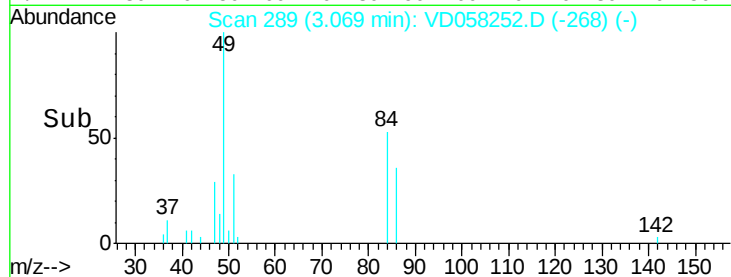
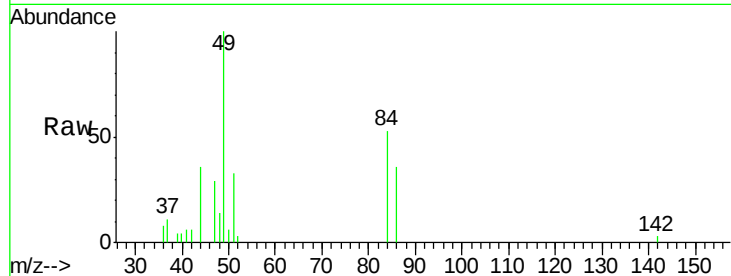
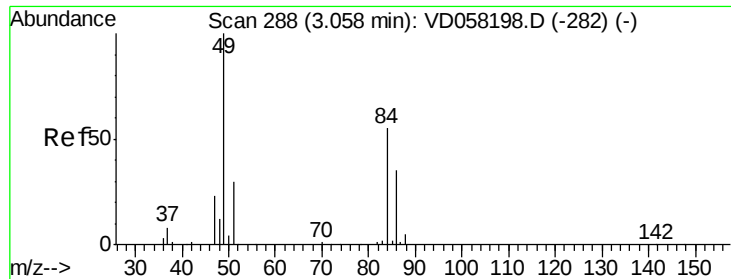
58 33.8 12.7 19.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

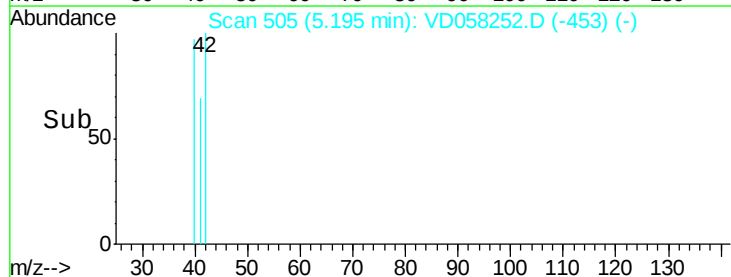
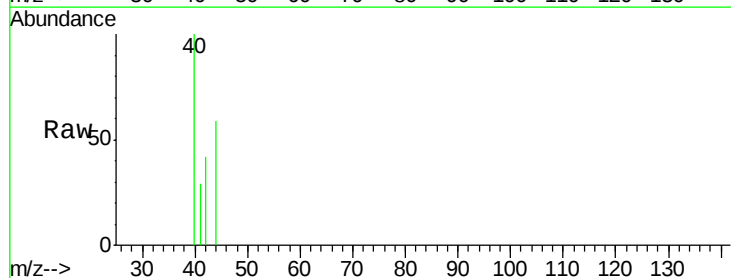
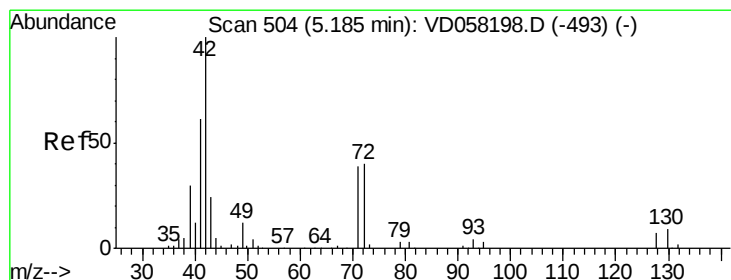
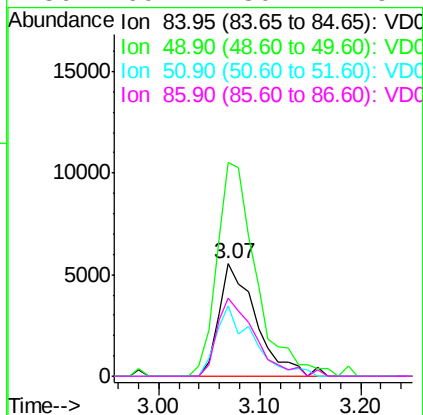




#20
Methvlene Chloride
Concen: 1.127 ug/l
RT: 3.07 min Scan# 289
Delta R.T. 0.01 min
Lab File: VD058252.D
Acq: 21 Jun 2018 15:06

Tot Ion: 84 Resp: 14222

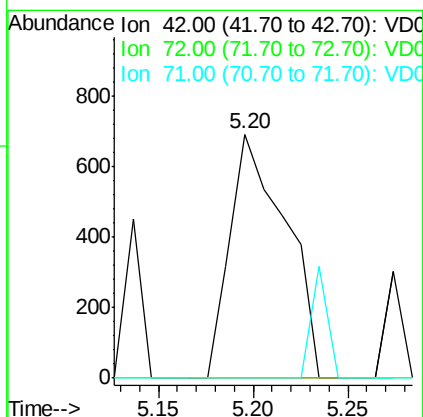
Ion	Ratio	Lower	Upper
84	100		
49	190.5	145.0	217.6
51	63.3	42.9	64.3
86	69.1	50.1	75.1

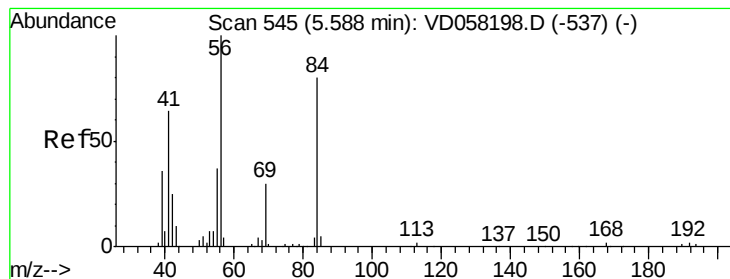


#29
Tetrahydrofuran
Concen: 1.288 ug/l
RT: 5.20 min Scan# 505
Delta R.T. 0.01 min
Lab File: VD058252.D
Acq: 21 Jun 2018 15:06

Tgt Ion: 42 Resp: 1407

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.2	45.2#
71	0.0	30.1	45.1#





#31

Cyclohexane

Concen: Below Cal

RT: 5.65 min Scan# 551

Delta R.T. 0.06 min

Lab File: VD058252.D

Acq: 21 Jun 2018 15:06

Instrument :

MSVOA_D

ClientSampleId :

CL-02-061918-D

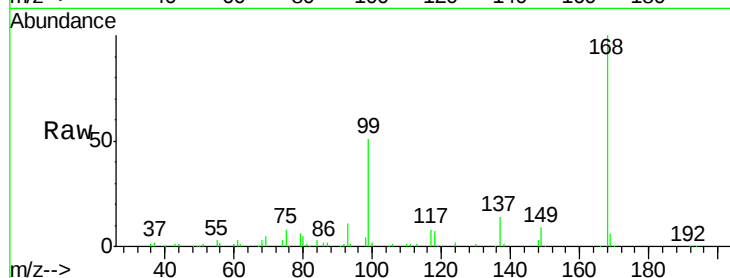
Tot Ion: 56 Resp: 16309

Ion Ratio Lower Upper

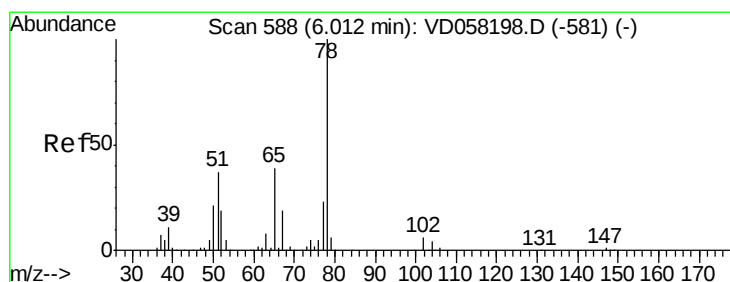
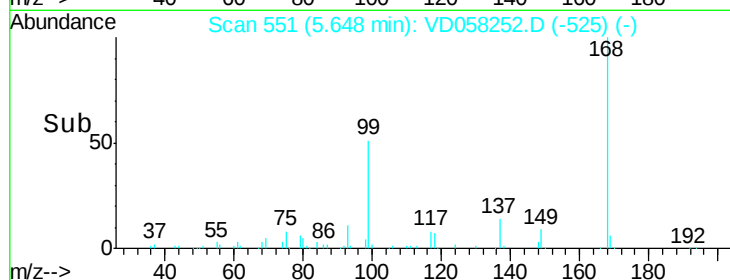
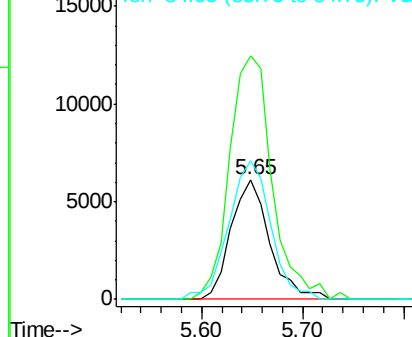
56 100

69 203.4 23.6 35.4#

84 115.5 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: N.D. ug/l

RT: 6.02 min Scan# 589

Delta R.T. 0.01 min

Lab File: VD058252.D

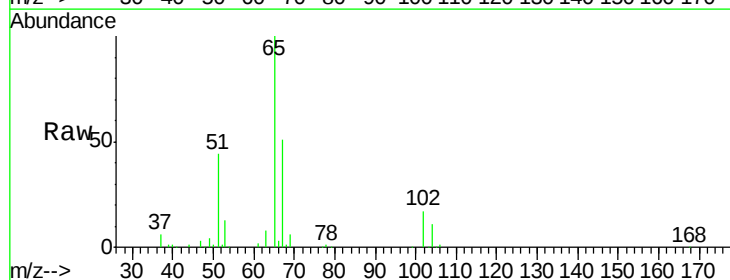
Acq: 21 Jun 2018 15:06

Tgt Ion: 65 Resp: 364054

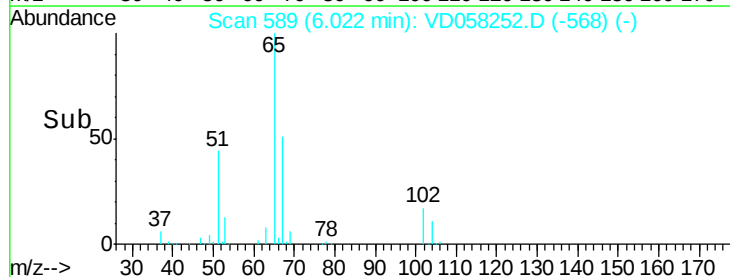
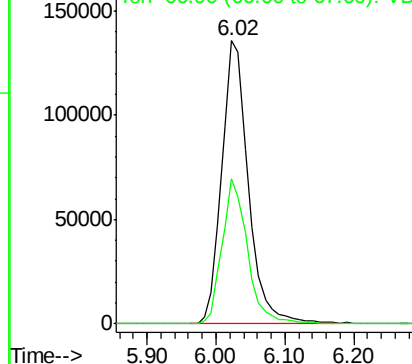
Ion Ratio Lower Upper

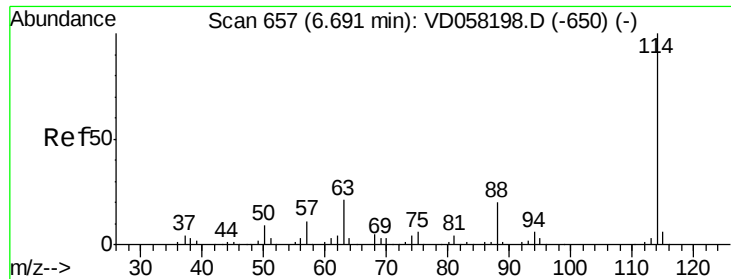
65 100

67 51.3 0.0 97.8



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

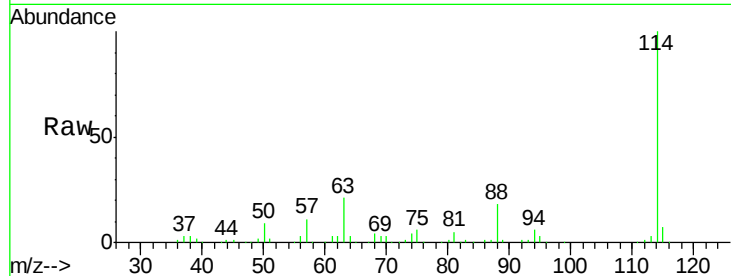




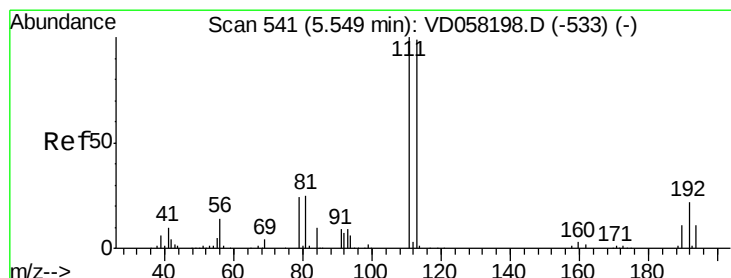
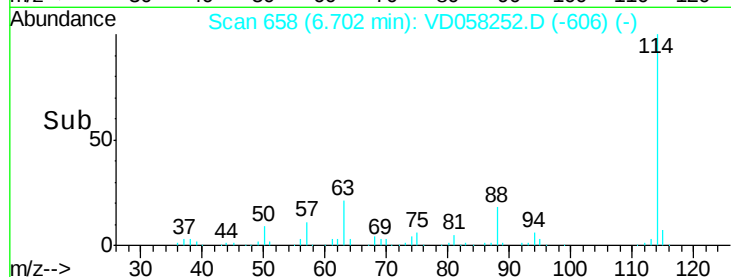
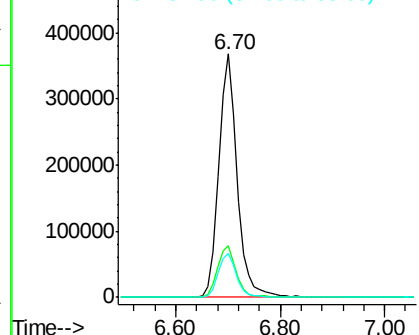
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.70 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VD058252.D
 Acq: 21 Jun 2018 15:06

Instrument :
 MSVOA_D
 ClientSampleId :
 CL-02-061918-D

Tot Ion:114 Resp: 901345
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 42.6
 88 17.8 0.0 40.6

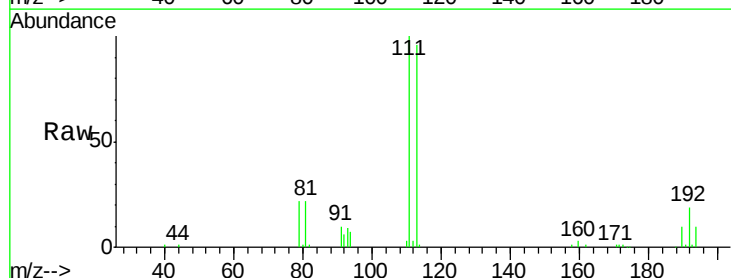


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

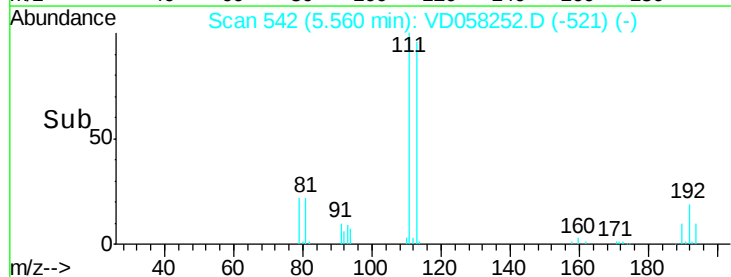
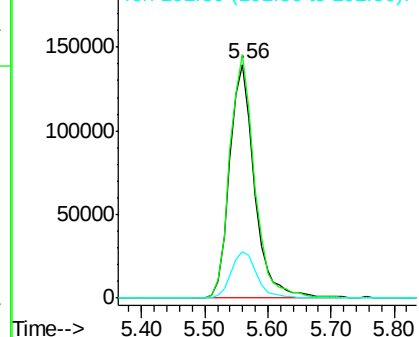


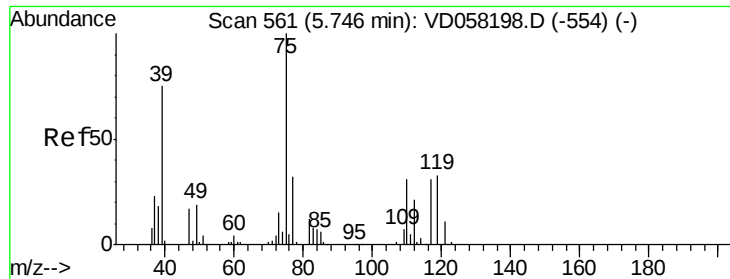
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.56 min Scan# 542
 Delta R.T. 0.01 min
 Lab File: VD058252.D
 Acq: 21 Jun 2018 15:06

Tgt Ion:113 Resp: 382064
 Ion Ratio Lower Upper
 113 100
 111 104.2 80.6 121.0
 192 19.9 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: 6.310 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.10 min

Lab File: VD058252.D

Acq: 21 Jun 2018 15:06

Instrument :

MSVOA_D

ClientSampleId :

CL-02-061918-D

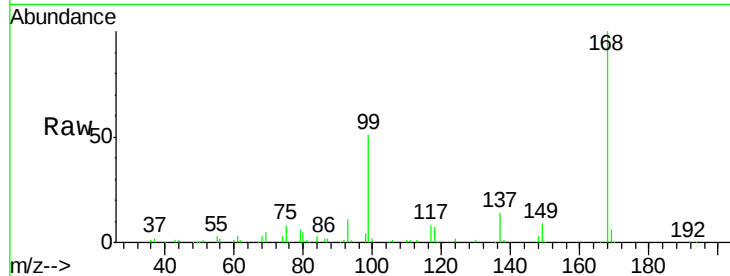
Tot Ion: 75 Resp: 56262

Ion Ratio Lower Upper

75 100

110 6.9 15.4 46.4#

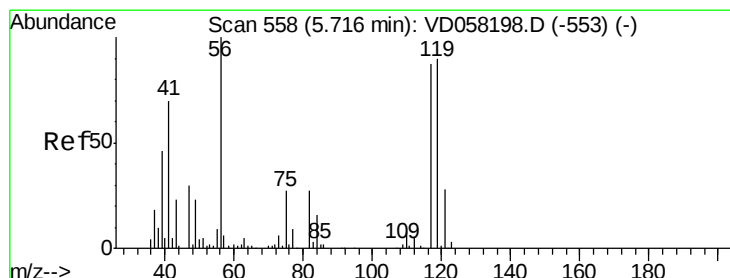
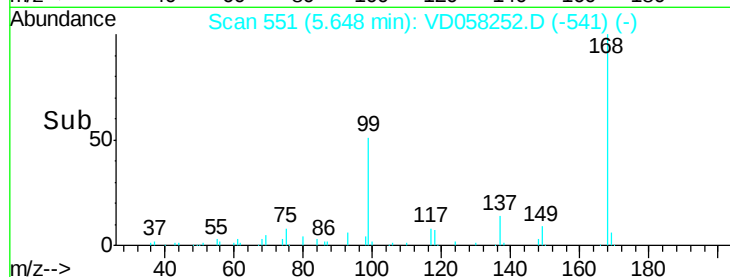
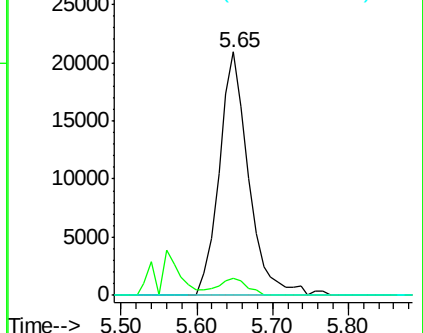
77 0.0 25.4 38.2#



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: 6.184 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.07 min

Lab File: VD058252.D

Acq: 21 Jun 2018 15:06

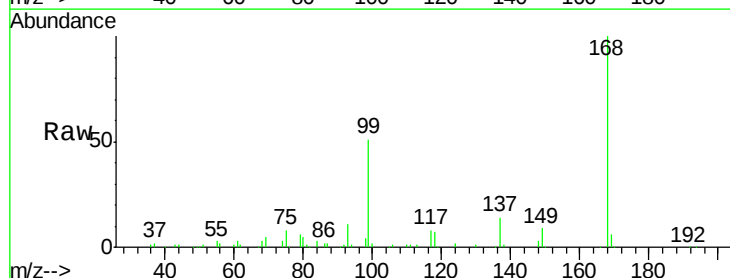
Tgt Ion: 117 Resp: 54785

Ion Ratio Lower Upper

117 100

119 5.6 78.8 118.2#

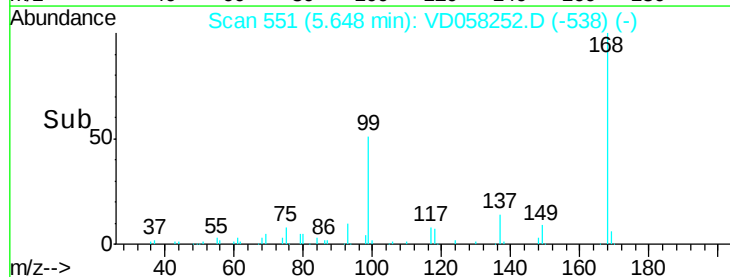
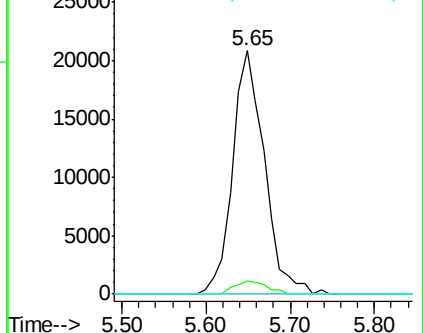
121 0.0 25.0 37.6#

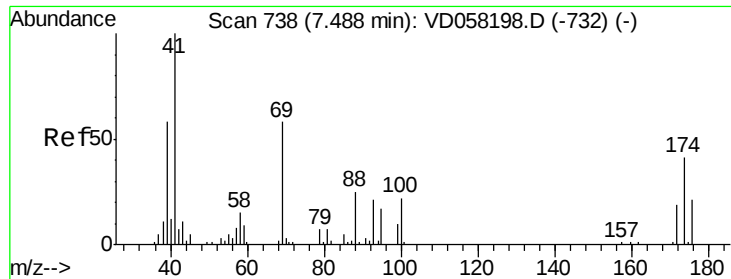


Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 118.85 (118.55 to 119.55): VDC

Ion 120.85 (120.55 to 121.55): VDC





#49

1,4-Dioxane

Concen: 6.028 ug/l

RT: 7.03 min Scan# 691

Delta R.T. -0.46 min

Lab File: VD058252.D

Acq: 21 Jun 2018 15:06

Instrument :

MSVOA_D

ClientSampleId :

CL-02-061918-D

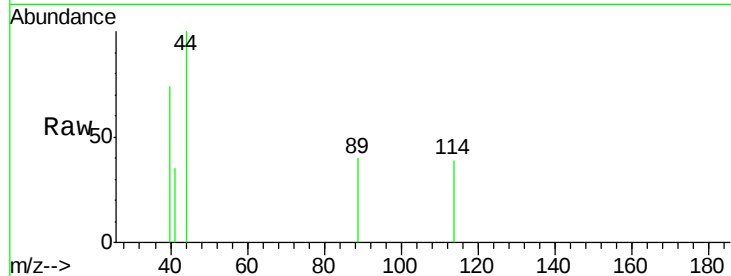
Tot Ion: 88 Resp: 224

Ion Ratio Lower Upper

88 100

43 0.0 34.2 51.2#

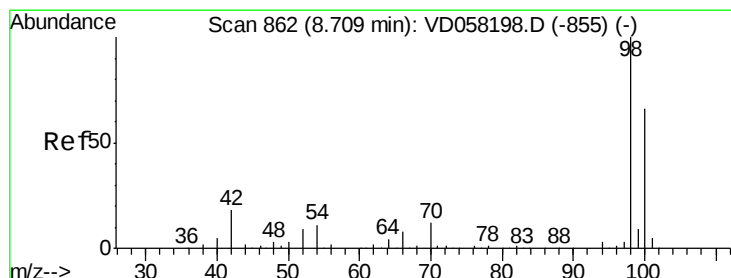
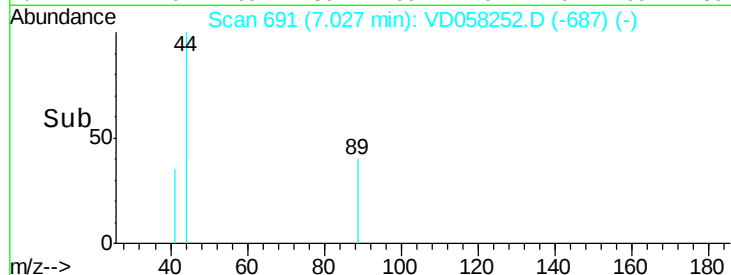
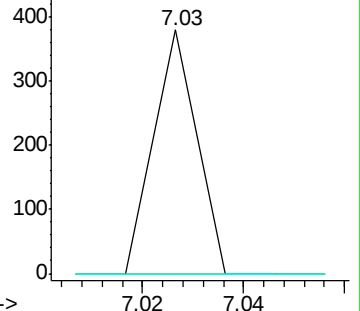
58 0.0 47.9 71.9#



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC



#50

Toluene-d8

Concen: 6.028 ug/l

RT: 8.72 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD058252.D

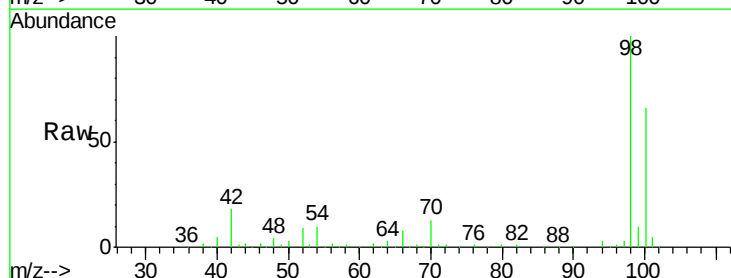
Acq: 21 Jun 2018 15:06

Tgt Ion: 98 Resp: 842803

Ion Ratio Lower Upper

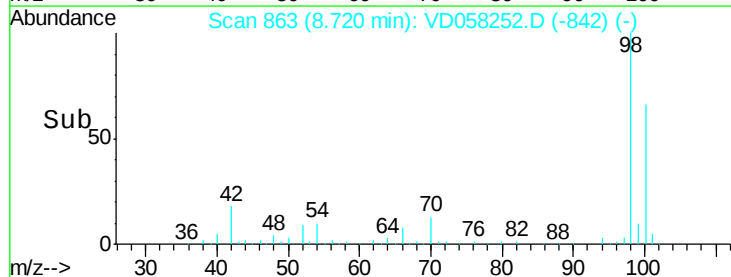
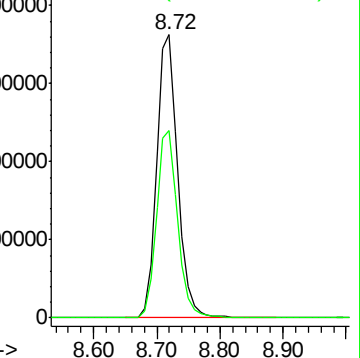
98 100

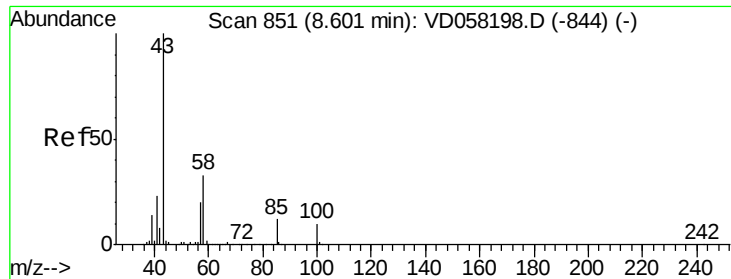
100 66.2 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 1.295 ug/l

RT: 8.71 min Scan# 862

Delta R.T. 0.11 min

Lab File: VD058252.D

Acq: 21 Jun 2018 15:06

Instrument :

MSVOA_D

ClientSampleId :

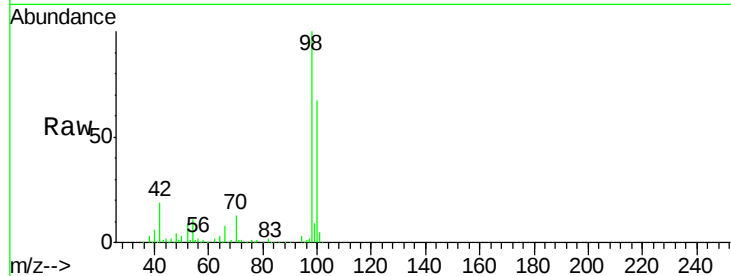
CL-02-061918-D

Tot Ion: 43 Resp: 5723

Ion Ratio Lower Upper

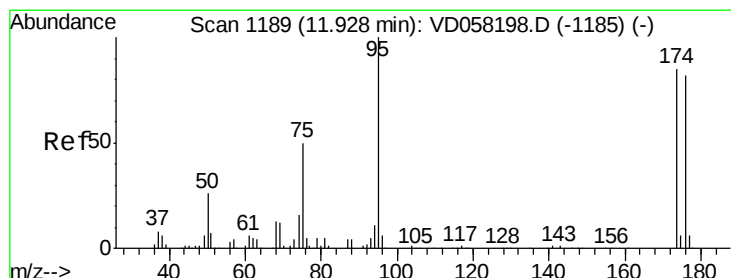
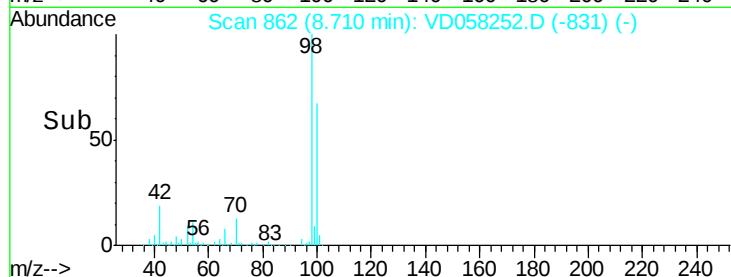
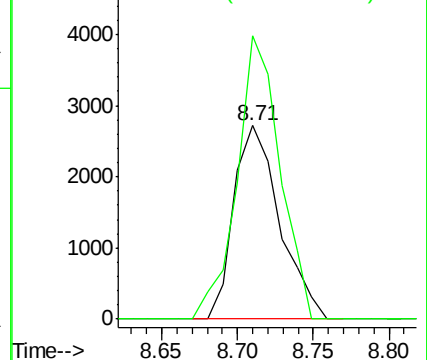
43 100

58 146.5 26.7 40.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058252.D

Acq: 21 Jun 2018 15:06

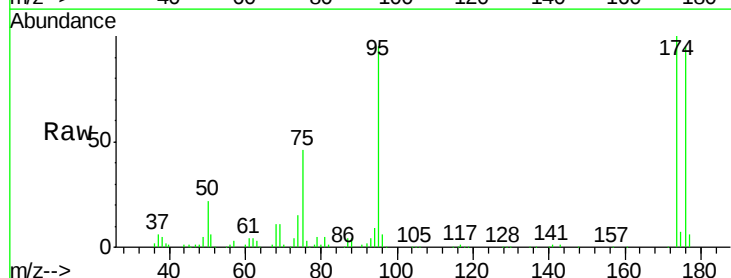
Tgt Ion: 95 Resp: 327861

Ion Ratio Lower Upper

95 100

174 105.0 0.0 170.2

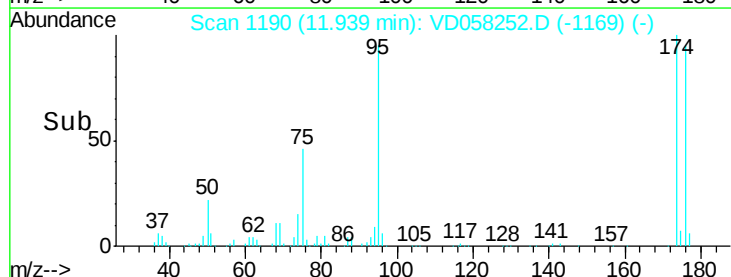
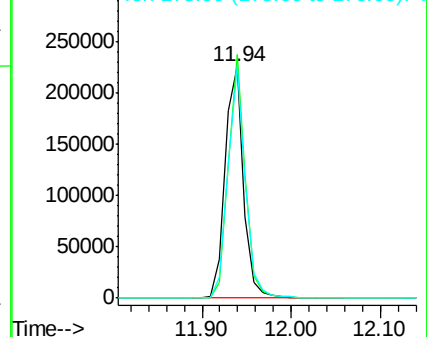
176 99.9 0.0 164.6

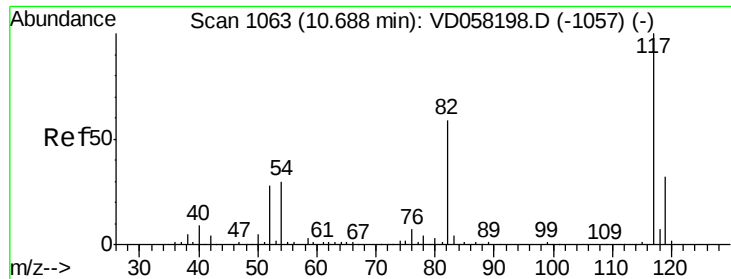


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

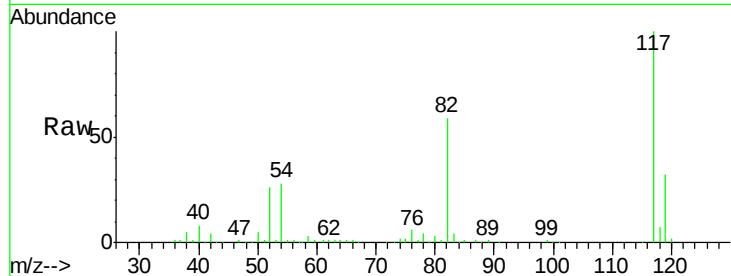




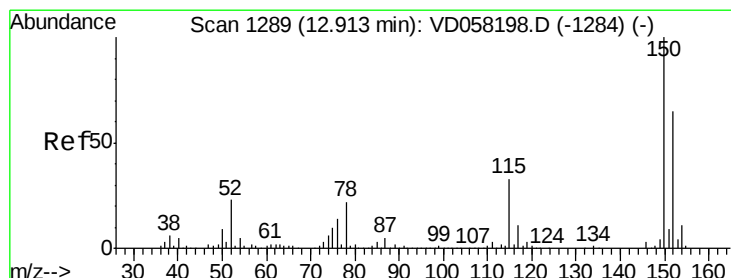
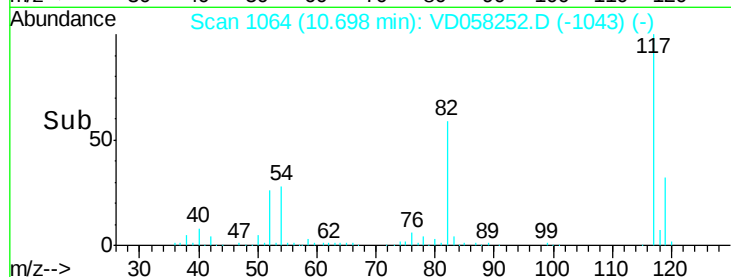
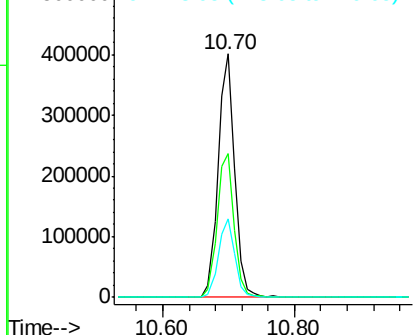
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058252.D
Acq: 21 Jun 2018 15:06

Instrument :
MSVOA_D
ClientSampleId :
CL-02-061918-D

Tot Ion:117 Resp: 699297
Ion Ratio Lower Upper
117 100
82 58.9 47.0 70.6
119 32.2 25.3 37.9

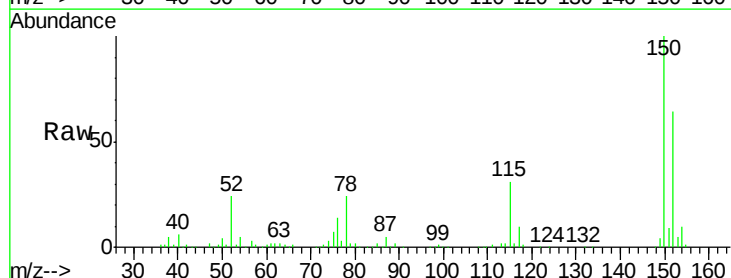


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

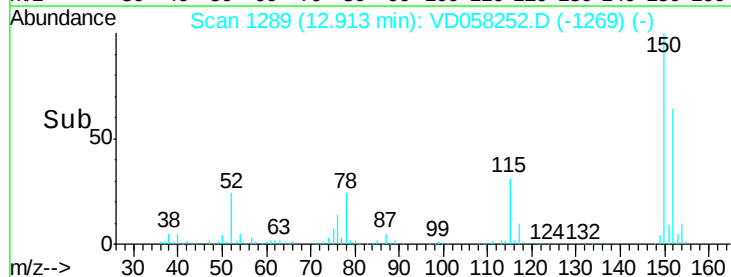
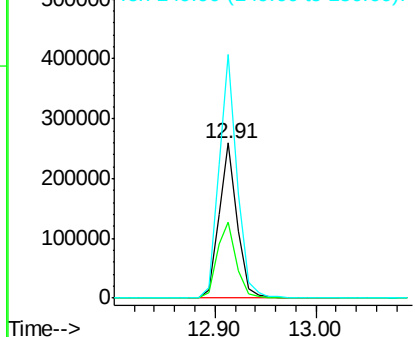


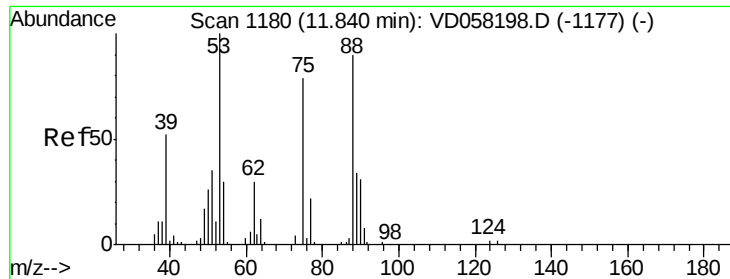
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.91 min Scan# 1289
Delta R.T. 0.00 min
Lab File: VD058252.D
Acq: 21 Jun 2018 15:06

Tgt Ion:152 Resp: 326748
Ion Ratio Lower Upper
152 100
115 49.0 25.1 75.3
150 156.9 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: 137.375 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058252.D

Acq: 21 Jun 2018 15:06

Instrument :

MSVOA_D

ClientSampleId :

CL-02-061918-D

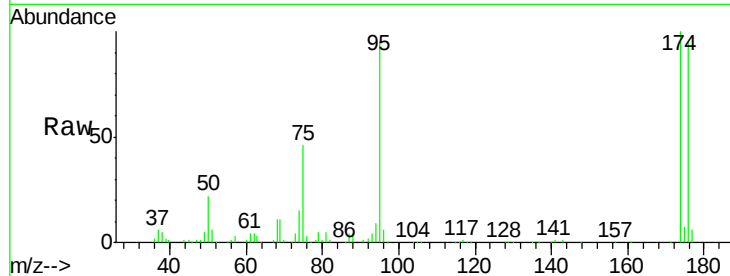
Tot Ion: 75 Resp: 159838

Ion Ratio Lower Upper

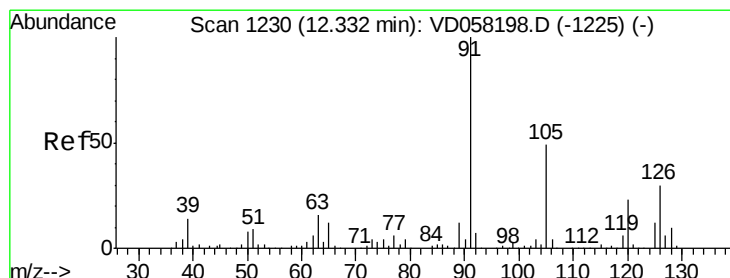
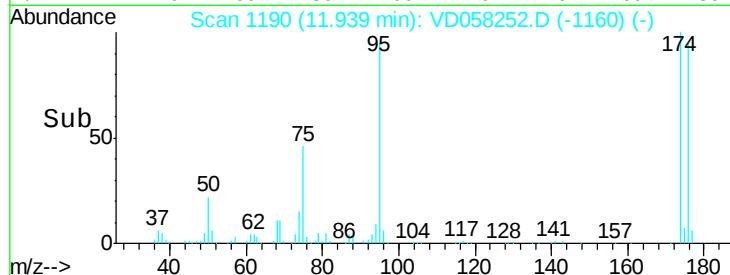
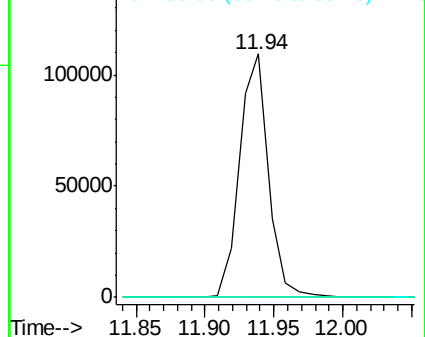
75 100

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: VD058252.D

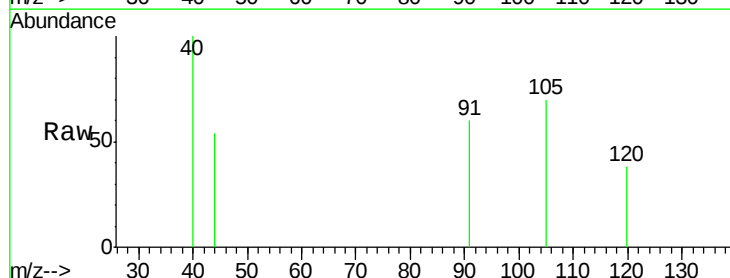
Acq: 21 Jun 2018 15:06

Tgt Ion: 91 Resp: 699

Ion Ratio Lower Upper

91 100

126 0.0 14.9 44.9#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

