

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD060718\
 Data File : VD057970.D
 Acq On : 7 Jun 2018 14:29
 Operator : JC/SY
 Sample : J3320-01
 Misc : 6.24g/5ml/MSVOA_D/SOIL
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 S39-0177

Quant Time: Jun 08 06:47:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 08:57:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	817606	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	1022246	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.68	117	748482	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	264962	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	300833	36.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	73.60%	
35) Dibromofluoromethane	5.55	113	344672	43.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.16%	
50) Toluene-d8	8.70	98	816011	43.40	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.80%	
62) 4-Bromofluorobenzene	11.93	95	274678	33.49	ug/l	0.00
Spiked Amount 50.000			Recovery	=	66.98%	

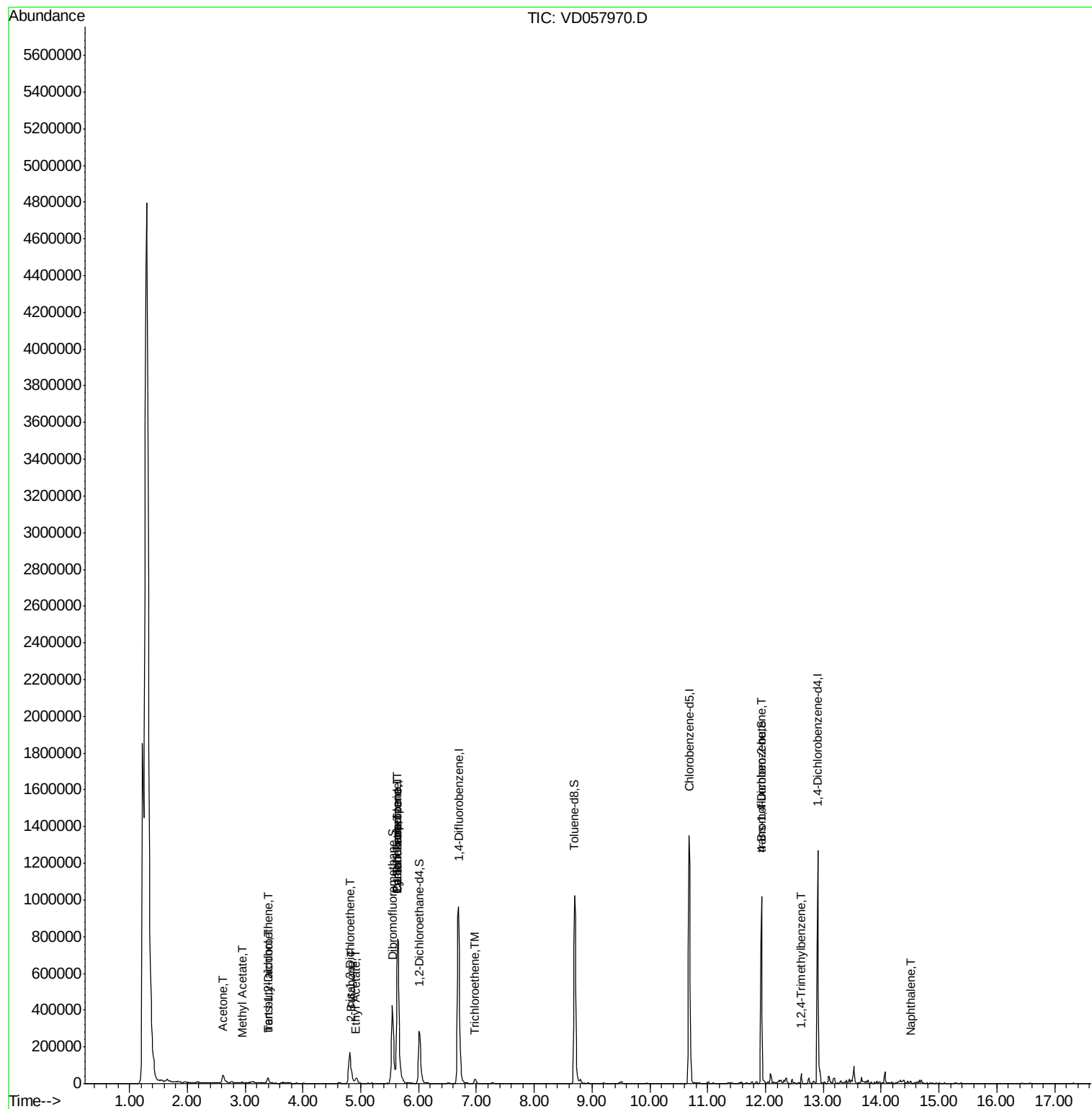
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.38	59	247	1.128	ug/l #	1
16) Acetone	2.63	43	93951	79.778	ug/l	96
18) Methyl Acetate	2.94	43	8946	3.927	ug/l #	66
20) Methylene Chloride	3.07	84	799	Below Cal	#	63
21) trans-1,2-Dichloroethene	3.39	96	14616	2.001	ug/l #	73
25) 2-Butanone	4.84	43	43043	16.083	ug/l #	78
27) cis-1,2-Dichloroethene	4.81	96	97333	11.236	ug/l	91
31) Cyclohexane	5.63	56	23136	1.628	ug/l #	8
36) 1,1-Dichloropropene	5.65	75	67242	5.970	ug/l #	50
37) Ethyl Acetate	4.92	43	60223	9.800	ug/l #	89
38) Carbon Tetrachloride	5.64	117	72260	6.510	ug/l #	16
44) Trichloroethene	6.99	130	10768	1.401	ug/l	86
81) trans-1,4-Dichloro-2-buten	11.93	75	135359	137.307	ug/l #	6
82) 4-Chlorotoluene	12.32	91	4584	Below Cal		99
84) 1,2,4-Trimethylbenzene	12.62	105	22116	1.503	ug/l	86
89) n-Butylbenzene	13.19	91	6290	Below Cal		83
95) Naphthalene	14.51	128	8578	1.003	ug/l #	96

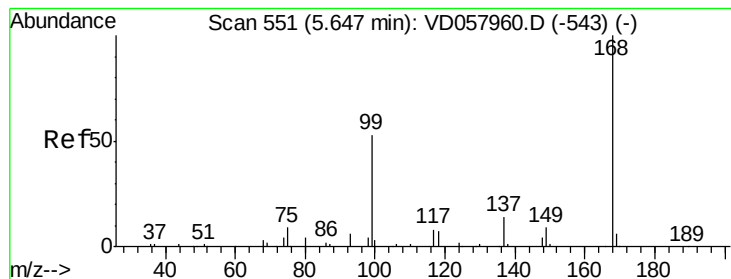
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.00 min

Lab File: VD057970.D

Acq: 7 Jun 2018 14:29

Instrument :

MSVOA_D

ClientSampleId :

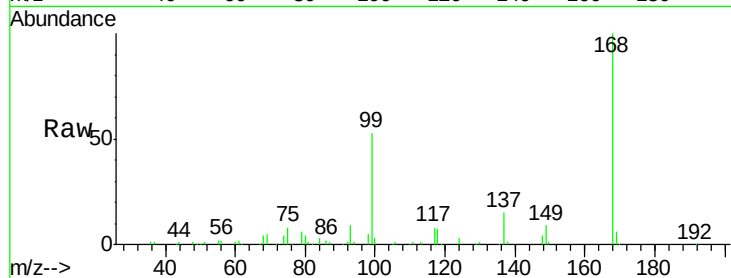
S39-0177

Tgt Ion:168 Resp: 817606

Ion Ratio Lower Upper

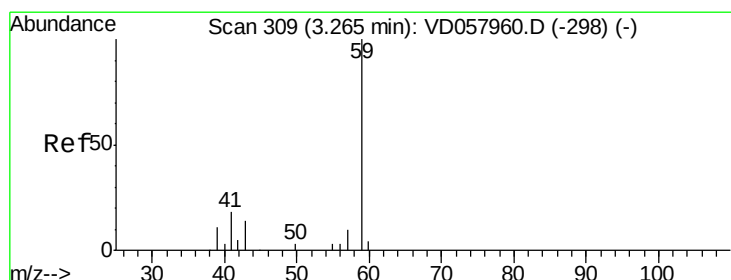
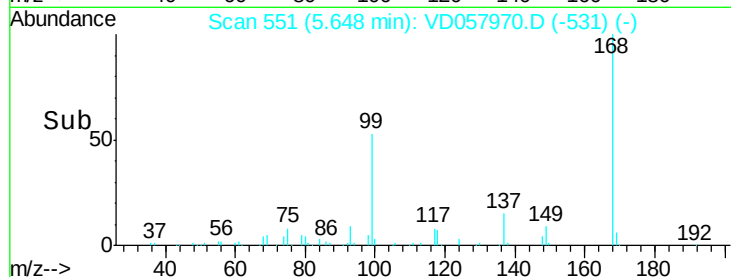
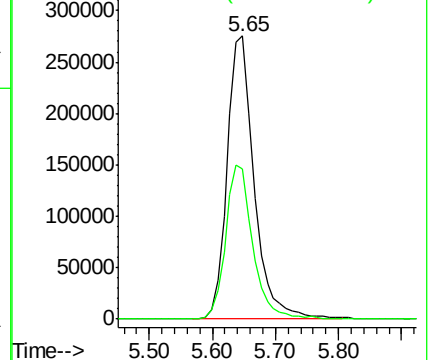
168 100

99 53.1 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 1.128 ug/l

RT: 3.38 min Scan# 321

Delta R.T. 0.12 min

Lab File: VD057970.D

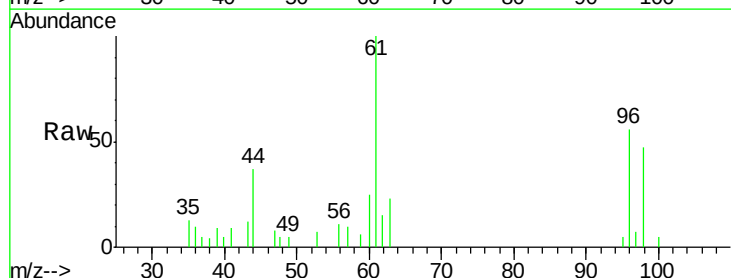
Acq: 7 Jun 2018 14:29

Tgt Ion: 59 Resp: 247

Ion Ratio Lower Upper

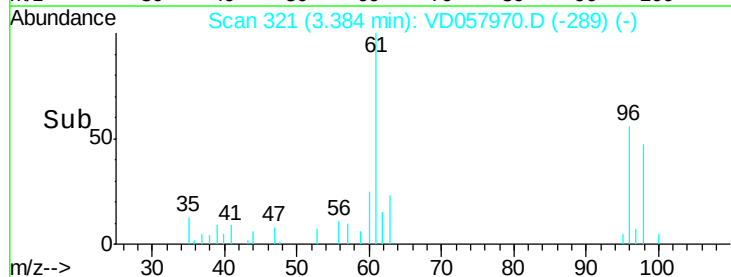
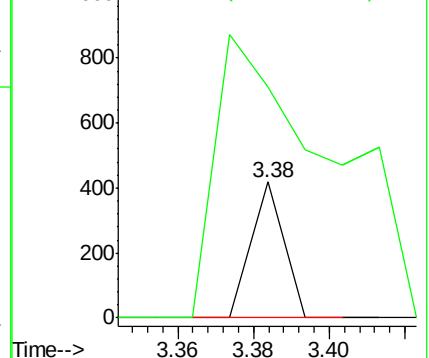
59 100

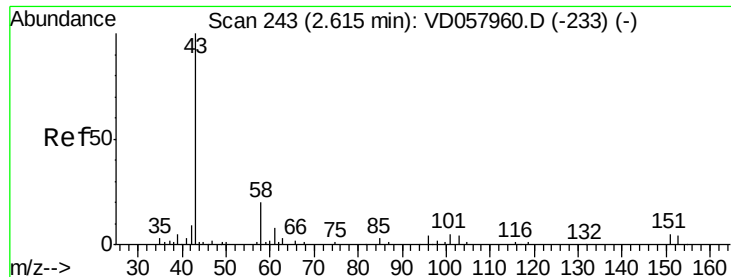
57 169.9 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 79.778 ug/l

RT: 2.63 min Scan# 244

Delta R.T. 0.01 min

Lab File: VD057970.D

Acq: 7 Jun 2018 14:29

Instrument :

MSVOA_D

ClientSampleId :

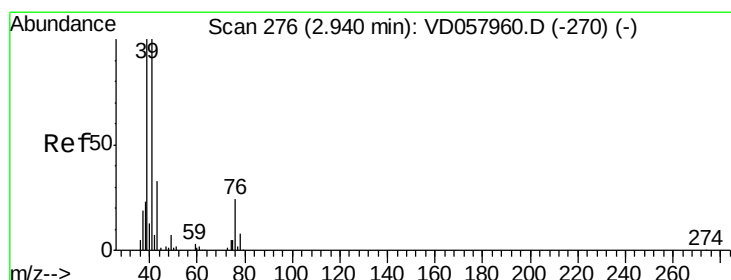
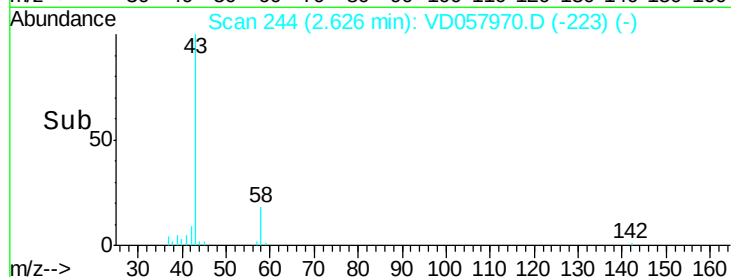
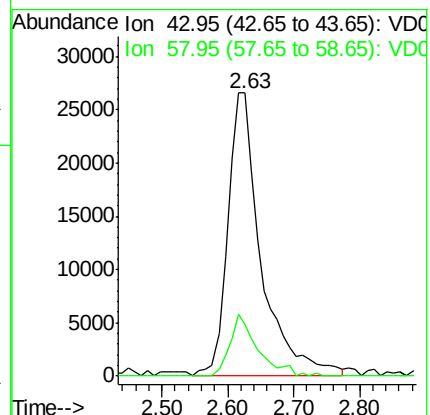
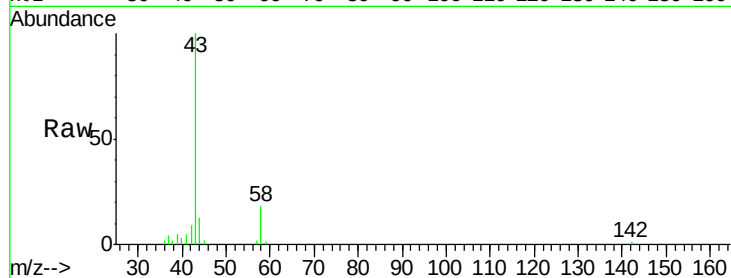
S39-0177

Tgt Ion: 43 Resp: 93951

Ion Ratio Lower Upper

43 100

58 18.1 15.8 23.8



#18

Methyl Acetate

Concen: 3.927 ug/l

RT: 2.94 min Scan# 276

Delta R.T. 0.00 min

Lab File: VD057970.D

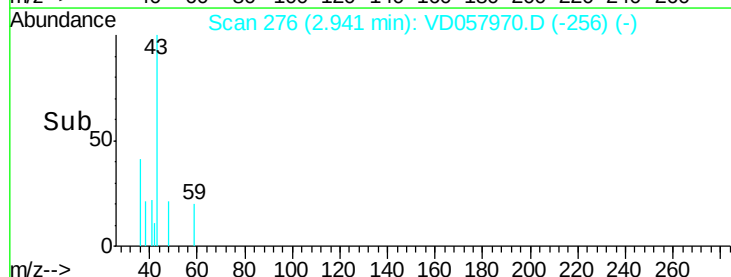
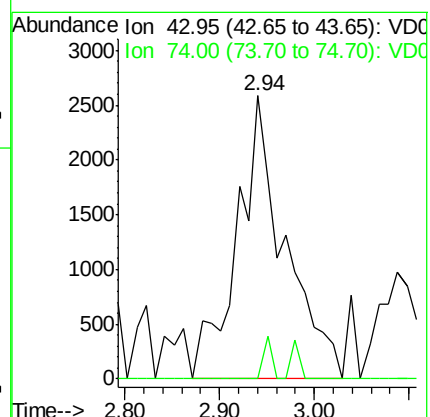
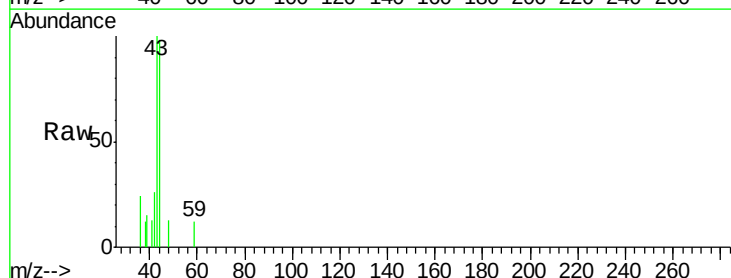
Acq: 7 Jun 2018 14:29

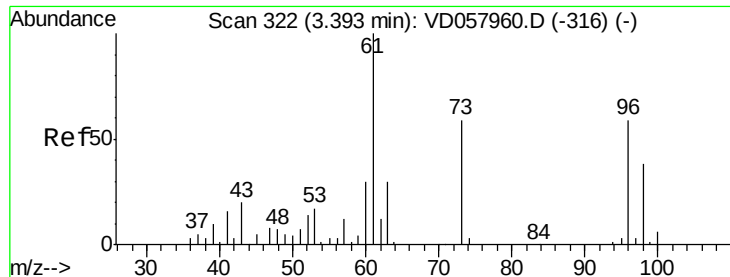
Tgt Ion: 43 Resp: 8946

Ion Ratio Lower Upper

43 100

74 0.0 11.2 16.8#





#21

trans-1,2-Dichloroethene

Concen: 2.001 ug/l

RT: 3.39 min Scan# 322

Delta R.T. 0.00 min

Lab File: VD057970.D

Acq: 7 Jun 2018 14:29

Instrument :

MSVOA_D

ClientSampleId :

S39-0177

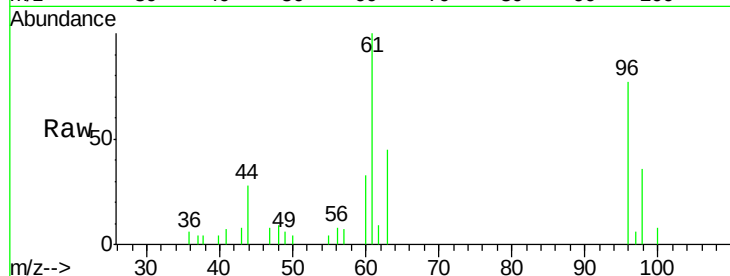
Tgt Ion: 96 Resp: 14616

Ion Ratio Lower Upper

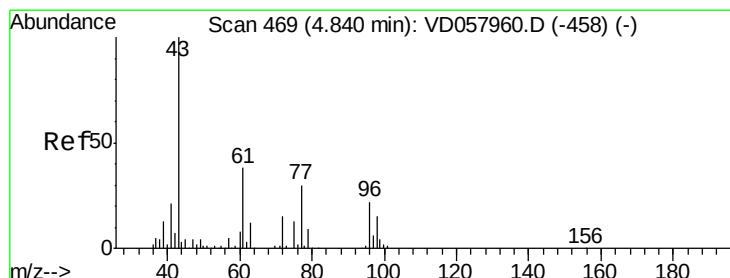
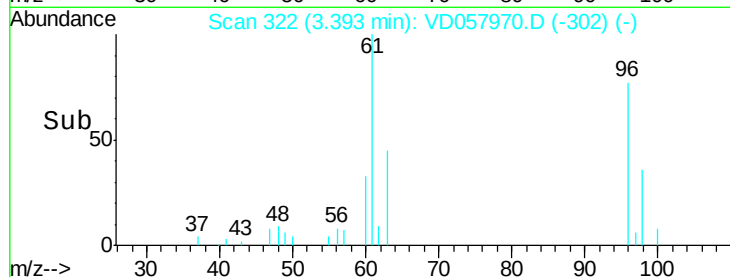
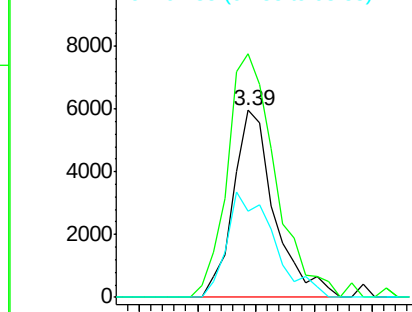
96 100

61 130.1 135.2 202.8#

98 46.4 51.7 77.5#



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



#25

2-Butanone

Concen: 16.083 ug/l

RT: 4.84 min Scan# 469

Delta R.T. 0.00 min

Lab File: VD057970.D

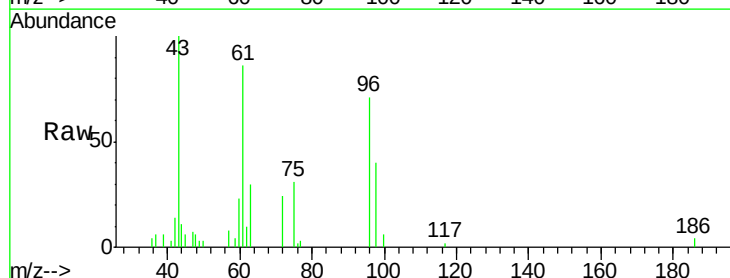
Acq: 7 Jun 2018 14:29

Tgt Ion: 43 Resp: 43043

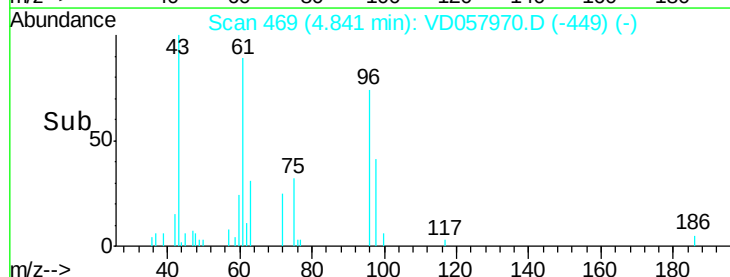
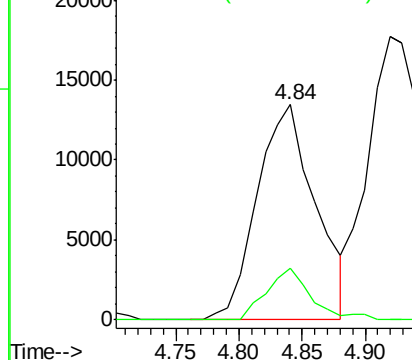
Ion Ratio Lower Upper

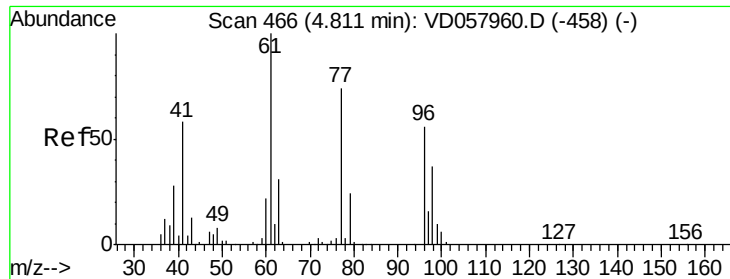
43 100

72 24.0 12.0 18.0#



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



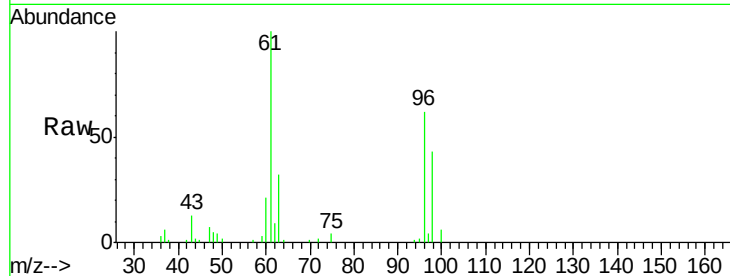


#27

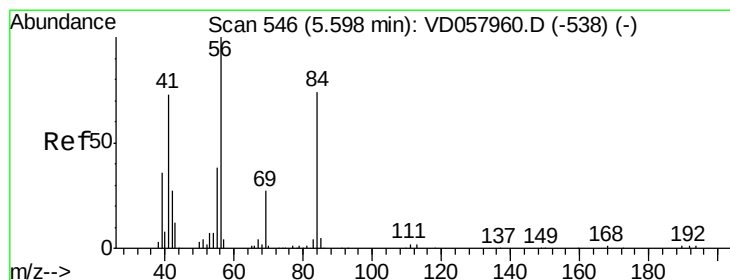
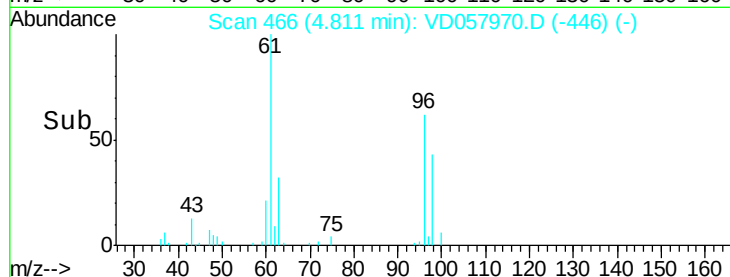
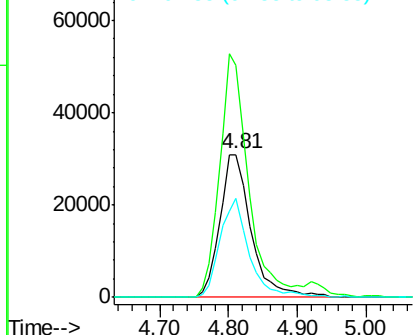
cis-1,2-Dichloroethene
 Concen: 11.236 ug/l
 RT: 4.81 min Scan# 466
 Delta R.T. 0.00 min
 Lab File: VD057970.D
 Acq: 7 Jun 2018 14:29

Instrument :
 MSVOA_D
 ClientSampleId :
 S39-0177

Tgt Ion: 96 Resp: 97333
 Ion Ratio Lower Upper
 96 100
 61 162.0 0.0 355.0
 98 68.9 0.0 129.6



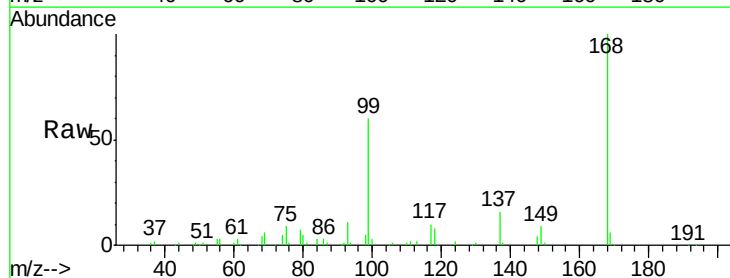
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



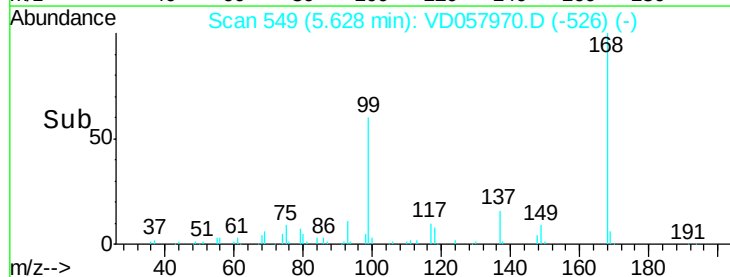
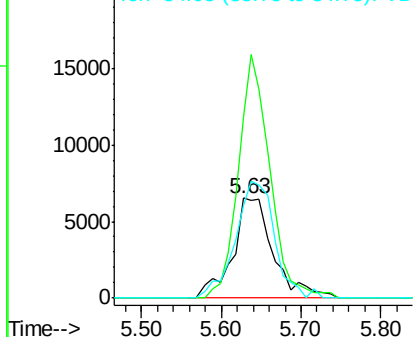
#31

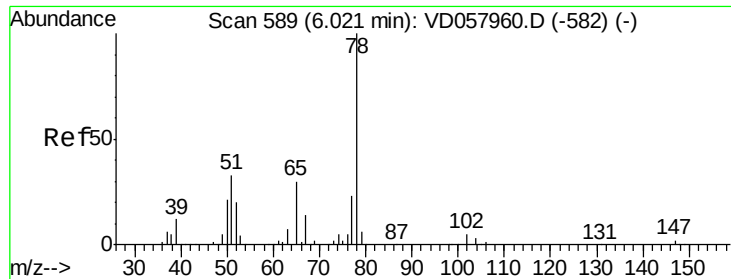
Cyclohexane
 Concen: 1.628 ug/l
 RT: 5.63 min Scan# 549
 Delta R.T. 0.03 min
 Lab File: VD057970.D
 Acq: 7 Jun 2018 14:29

Tgt Ion: 56 Resp: 23136
 Ion Ratio Lower Upper
 56 100
 69 180.7 21.5 32.3#
 84 92.9 61.0 91.6#



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

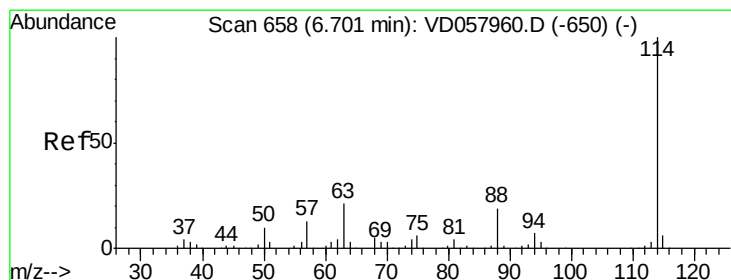
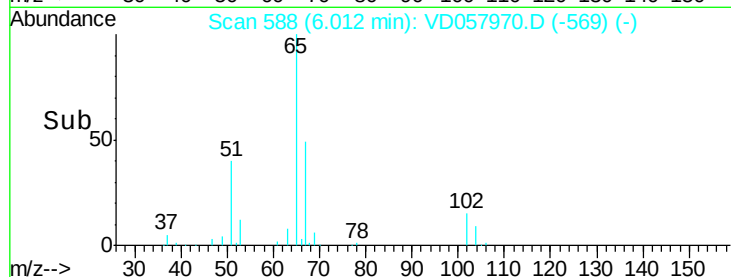
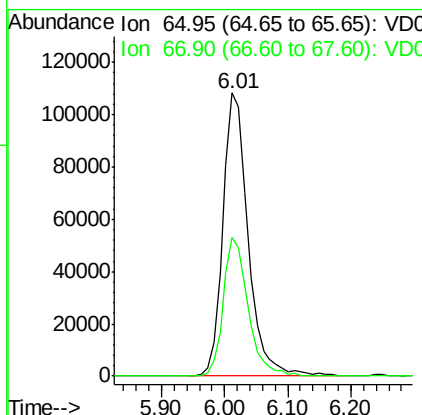
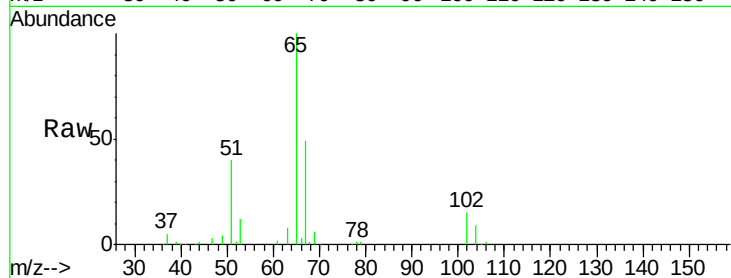




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.01 min Scan# 588
 Delta R.T. -0.01 min
 Lab File: VD057970.D
 Acq: 7 Jun 2018 14:29

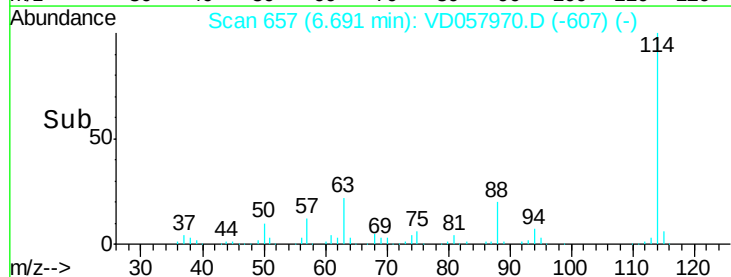
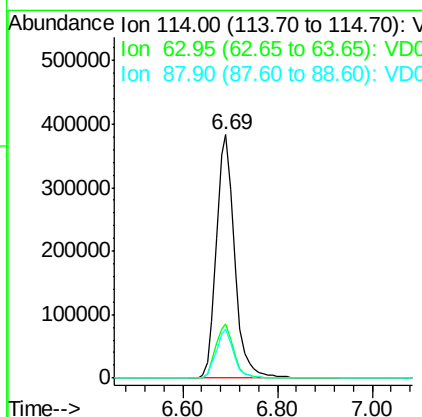
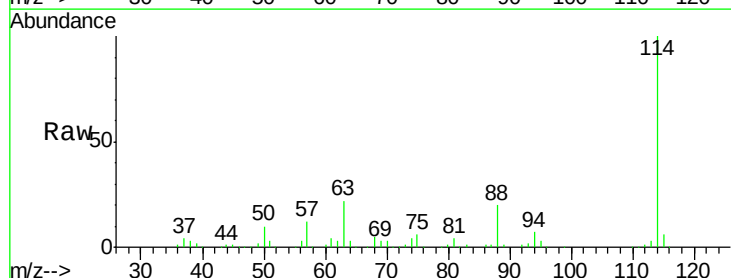
Instrument :
 MSVOA_D
 ClientSampleId :
 S39-0177

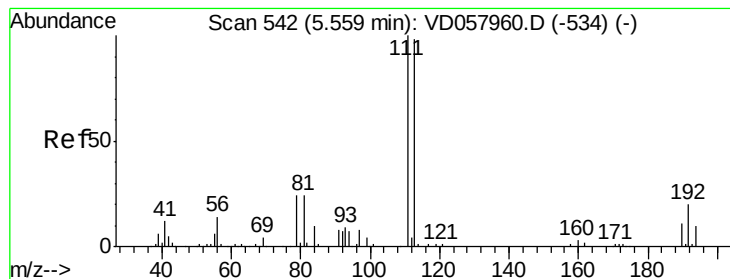
Tgt Ion: 65 Resp: 300833
 Ion Ratio Lower Upper
 65 100
 67 49.0 0.0 94.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.69 min Scan# 657
 Delta R.T. -0.01 min
 Lab File: VD057970.D
 Acq: 7 Jun 2018 14:29

Tgt Ion: 114 Resp: 1022246
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 42.8
 88 20.0 0.0 37.8





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.55 min Scan# 541

Delta R.T. -0.01 min

Lab File: VD057970.D

Acq: 7 Jun 2018 14:29

Instrument :

MSVOA_D

ClientSampleId :

S39-0177

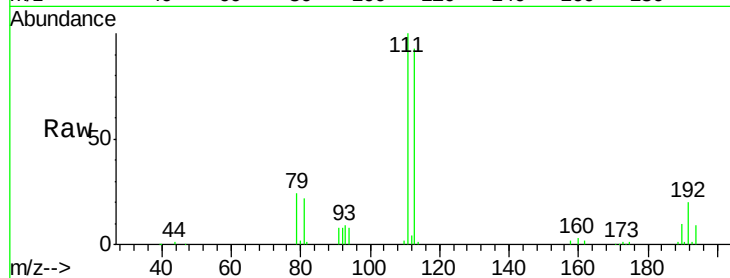
Tgt Ion:113 Resp: 344672

Ion Ratio Lower Upper

113 100

111 107.7 81.5 122.3

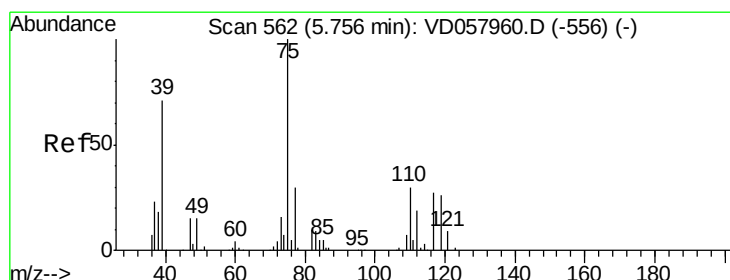
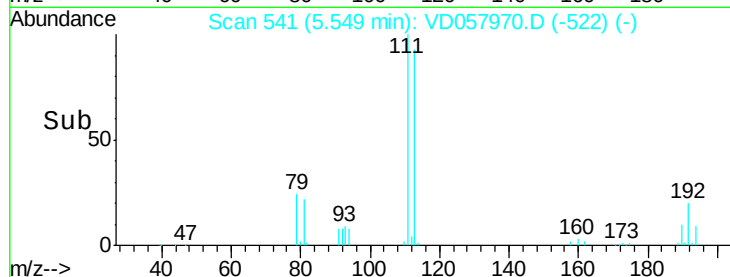
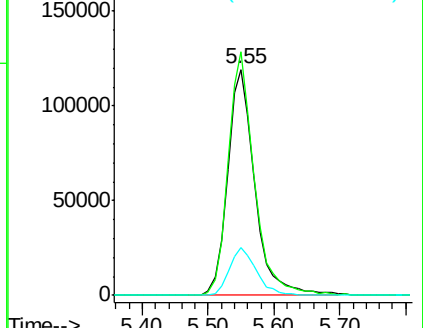
192 21.2 16.4 24.6



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: 5.970 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.11 min

Lab File: VD057970.D

Acq: 7 Jun 2018 14:29

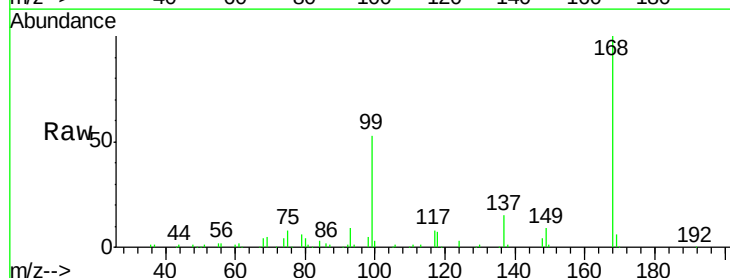
Tgt Ion: 75 Resp: 67242

Ion Ratio Lower Upper

75 100

110 5.4 14.8 44.3#

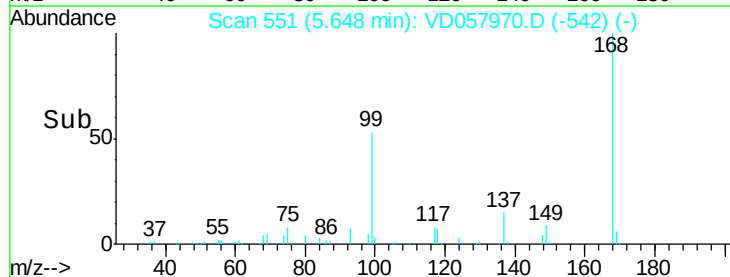
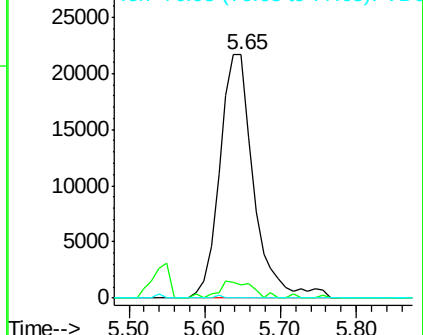
77 0.0 23.9 35.9#

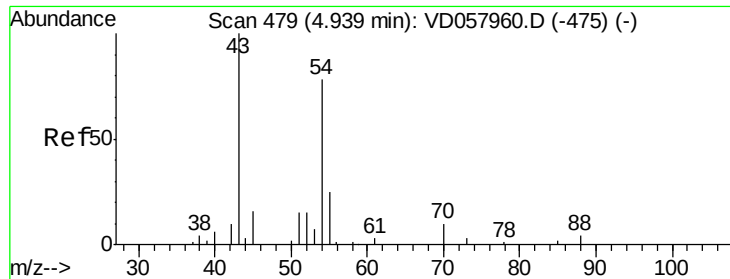


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#37

Ethyl Acetate

Concen: 9.800 ug/l

RT: 4.92 min Scan# 477

Delta R.T. -0.02 min

Lab File: VD057970.D

Acq: 7 Jun 2018 14:29

Instrument :

MSVOA_D

ClientSampleId :

S39-0177

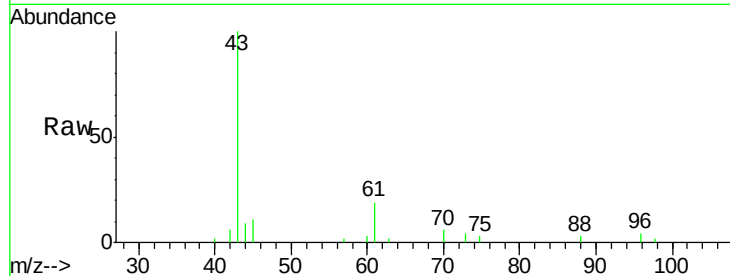
Tgt Ion: 43 Resp: 60223

Ion Ratio Lower Upper

43 100

61 18.6 9.9 14.9#

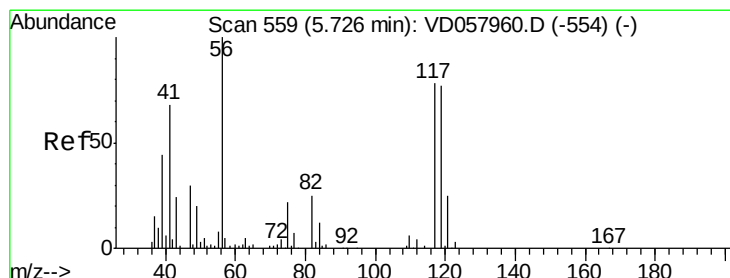
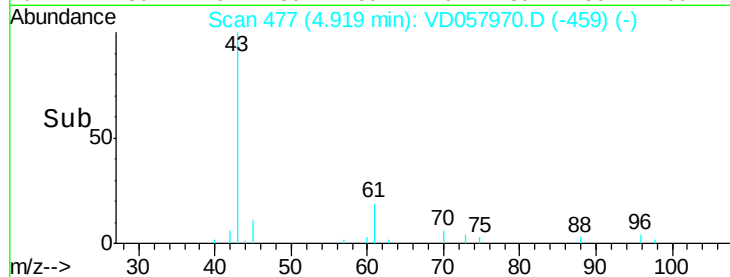
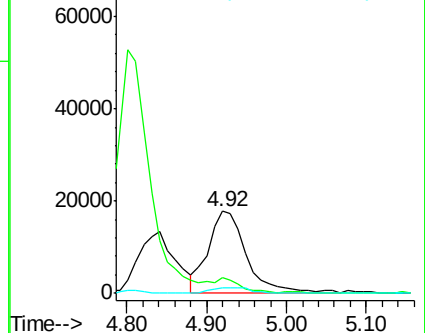
70 6.1 5.7 8.5



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: 6.510 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.09 min

Lab File: VD057970.D

Acq: 7 Jun 2018 14:29

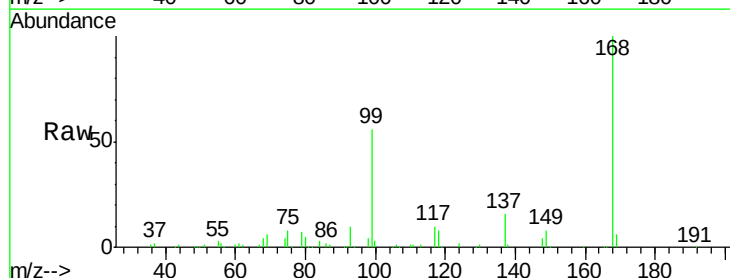
Tgt Ion: 117 Resp: 72260

Ion Ratio Lower Upper

117 100

119 4.5 76.1 114.1#

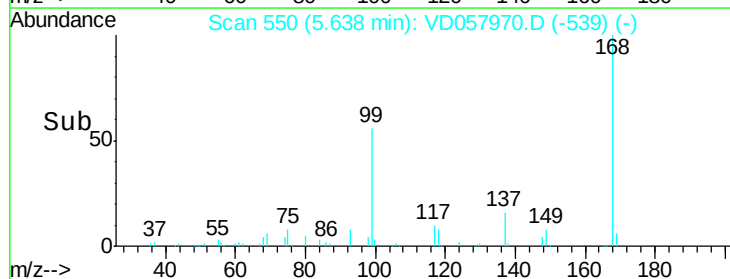
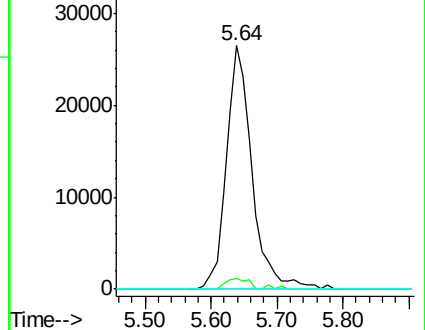
121 0.0 24.9 37.3#

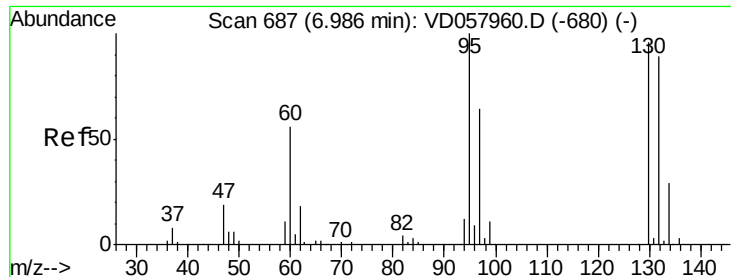


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#44

Trichloroethene

Concen: 1.401 ug/l

RT: 6.99 min Scan# 687

Delta R.T. 0.00 min

Lab File: VD057970.D

Acq: 7 Jun 2018 14:29

Instrument :

MSVOA_D

ClientSampleId :

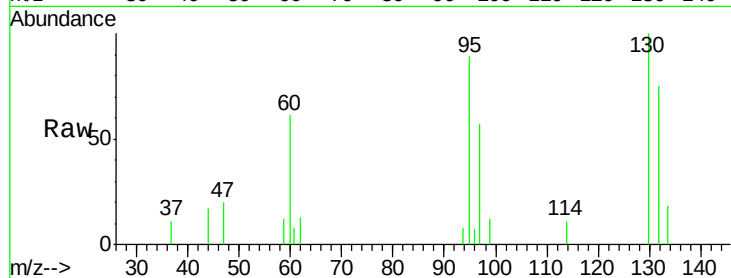
S39-0177

Tgt Ion:130 Resp: 10768

Ion Ratio Lower Upper

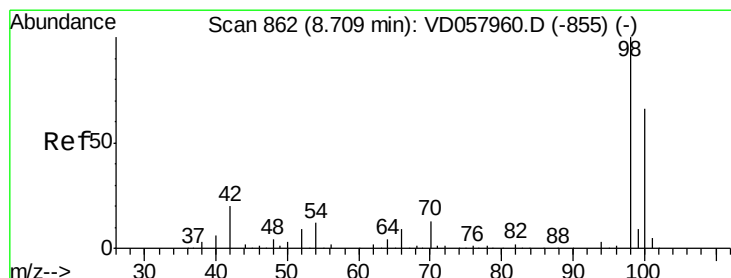
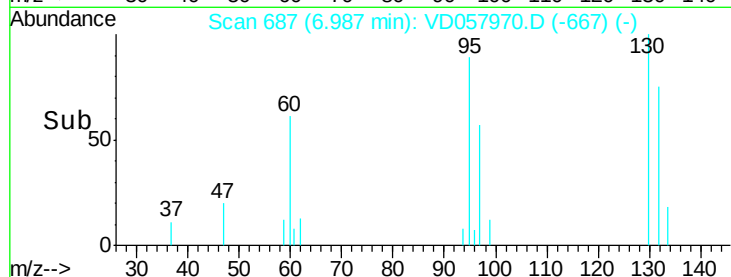
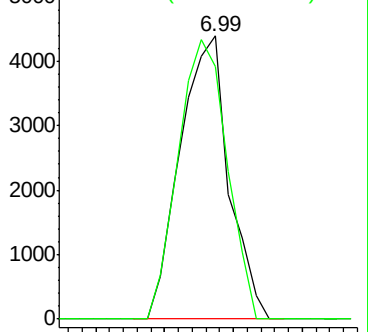
130 100

95 89.4 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.70 min Scan# 861

Delta R.T. -0.01 min

Lab File: VD057970.D

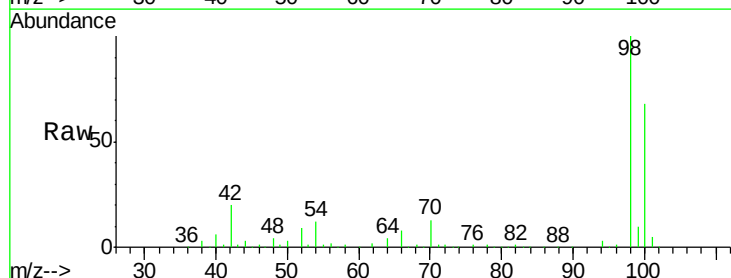
Acq: 7 Jun 2018 14:29

Tgt Ion: 98 Resp: 816011

Ion Ratio Lower Upper

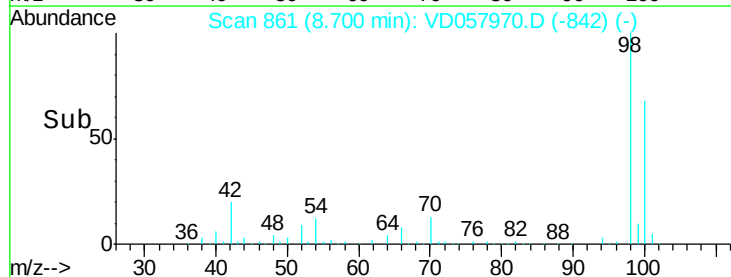
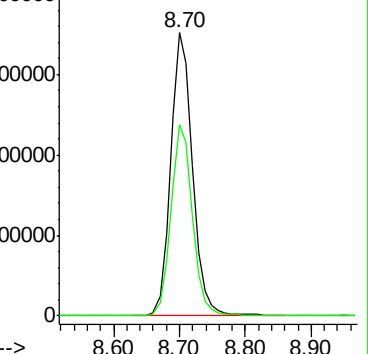
98 100

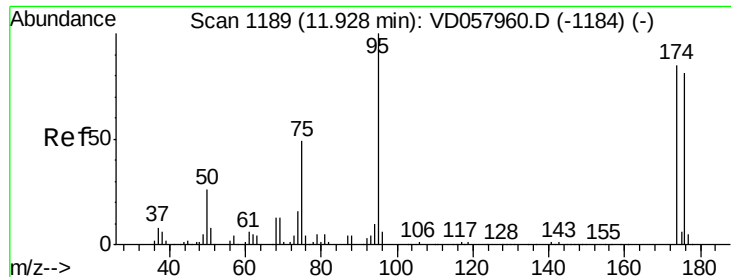
100 67.7 53.4 80.0



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VD057970.D

Acq: 7 Jun 2018 14:29

Instrument :

MSVOA_D

ClientSampleId :

S39-0177

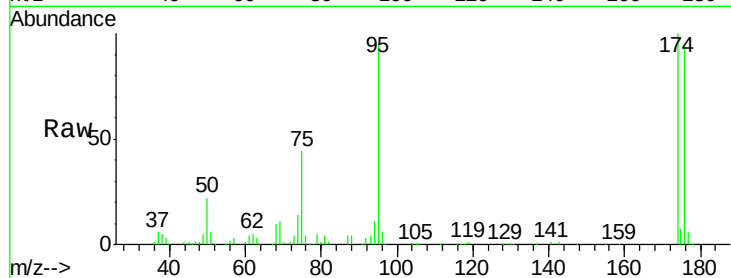
Tgt Ion: 95 Resp: 274678

Ion Ratio Lower Upper

95 100

174 105.6 0.0 169.4

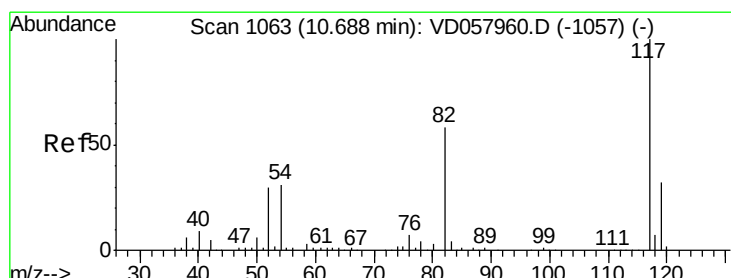
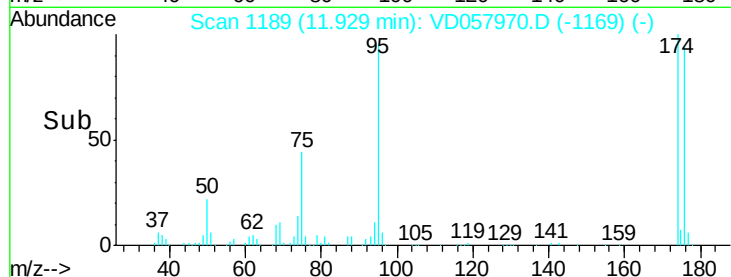
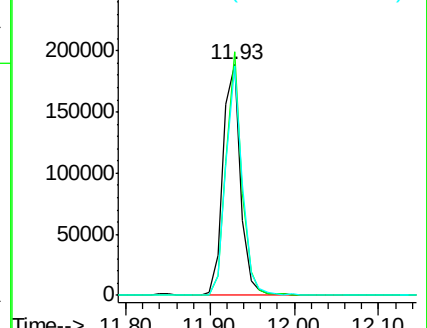
176 99.6 0.0 162.6



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: 10.68 min Scan# 1062

Delta R.T. -0.01 min

Lab File: VD057970.D

Acq: 7 Jun 2018 14:29

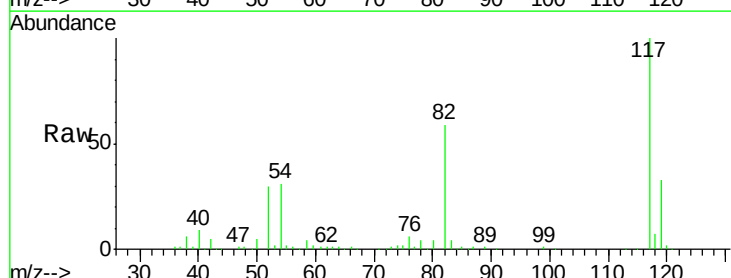
Tgt Ion: 117 Resp: 748482

Ion Ratio Lower Upper

117 100

82 59.1 46.8 70.2

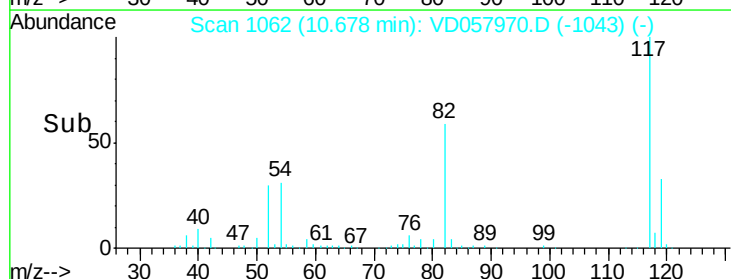
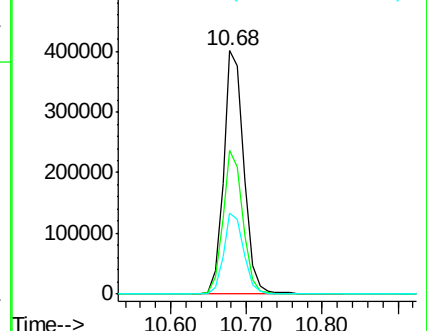
119 33.3 25.8 38.6

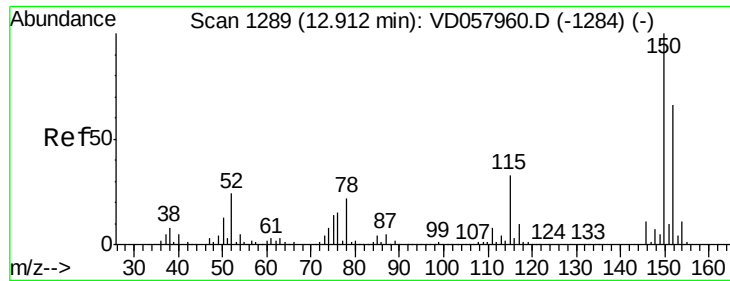


Abundance Ion 116.95 (116.65 to 117.65): V

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: 12.90 min Scan# 1288

Delta R.T. -0.01 min

Lab File: VD057970.D

Acq: 7 Jun 2018 14:29

Instrument :

MSVOA_D

ClientSampleId :

S39-0177

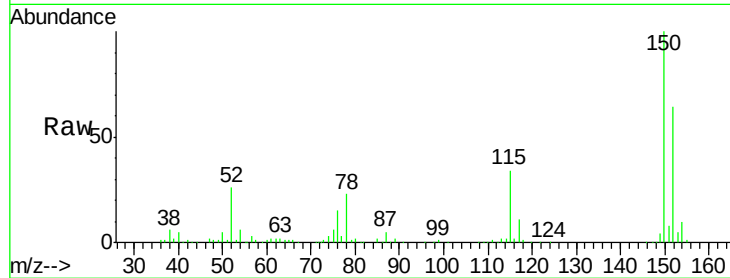
Tgt Ion:152 Resp: 264962

Ion Ratio Lower Upper

152 100

115 53.3 25.6 76.6

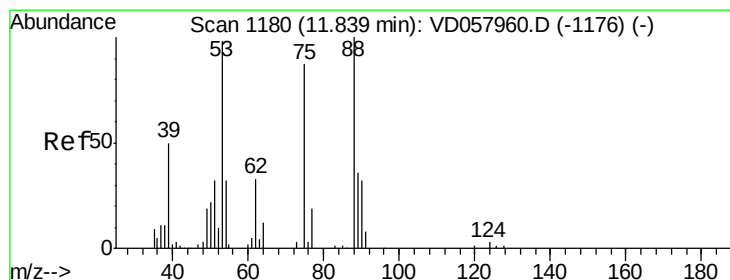
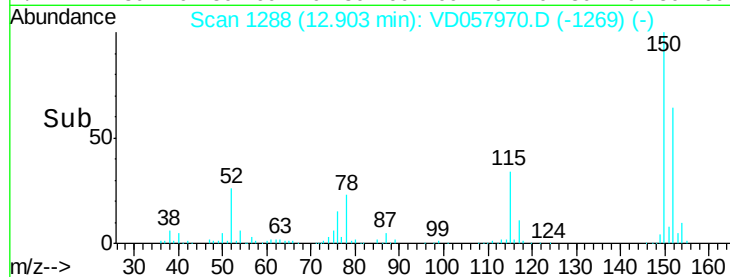
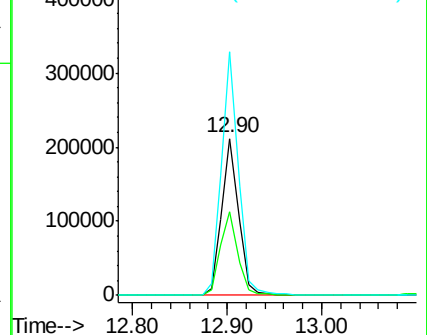
150 155.1 0.0 306.8



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: 137.307 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD057970.D

Acq: 7 Jun 2018 14:29

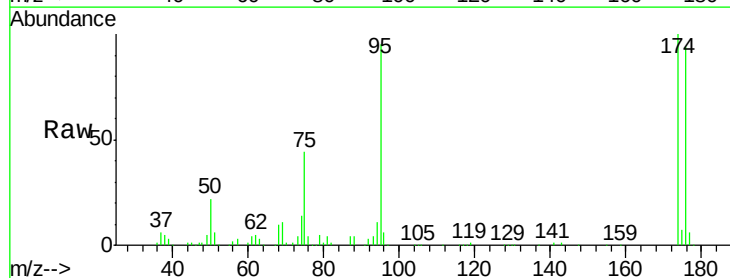
Tgt Ion: 75 Resp: 135359

Ion Ratio Lower Upper

75 100

53 0.0 89.3 133.9#

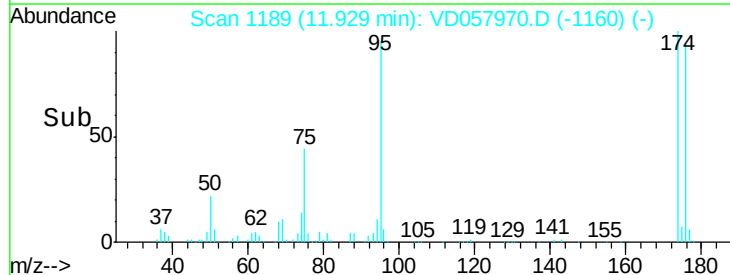
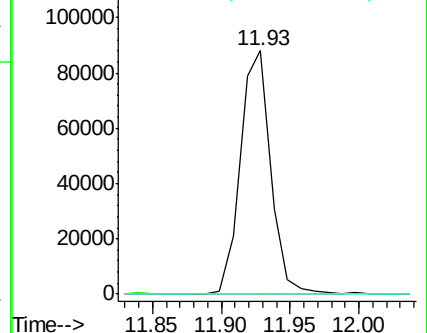
89 0.0 33.3 49.9#

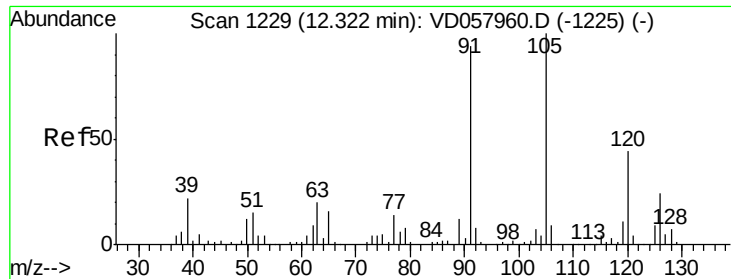


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

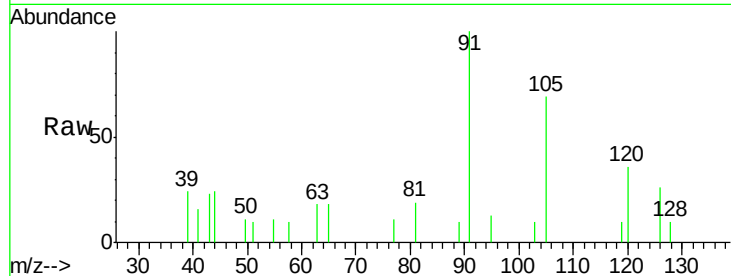




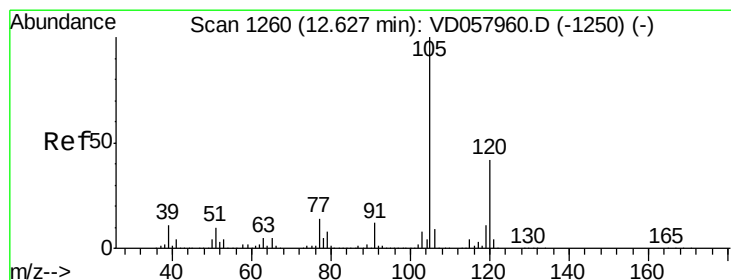
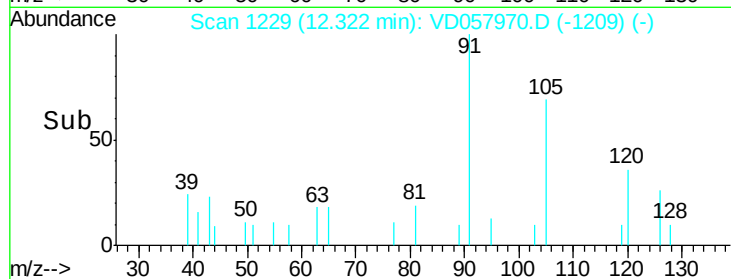
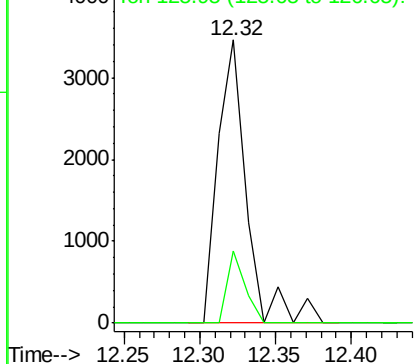
#82
4-Chlorotoluene
Concen: Below Cal
RT: 12.32 min Scan# 1229
Delta R.T. 0.00 min
Lab File: VD057970.D
Acq: 7 Jun 2018 14:29

Instrument :
MSVOA_D
ClientSampleId :
S39-0177

Tgt Ion: 91 Resp: 4584
Ion Ratio Lower Upper
91 100
126 25.5 12.5 37.5

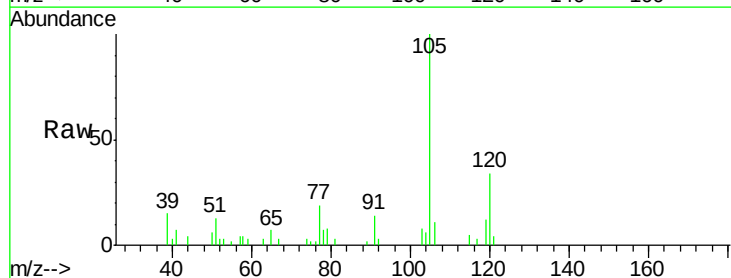


Abundance Ion 91.00 (90.70 to 91.70): VD057960.D (-1225) (-)
Ion 125.95 (125.65 to 126.65): VD057960.D (-1225) (-)

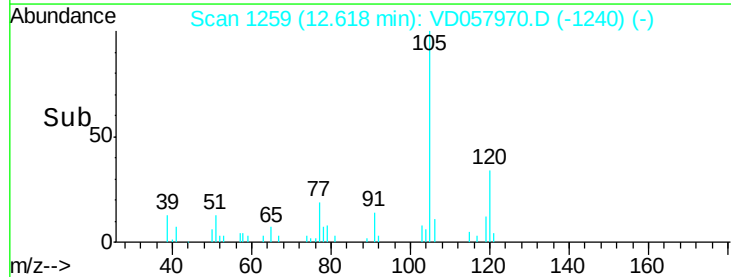
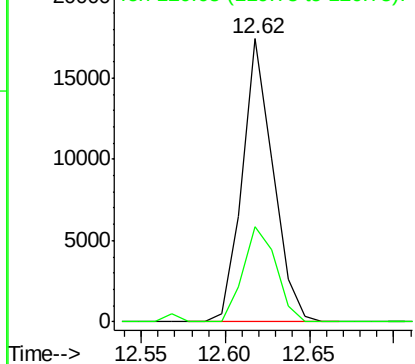


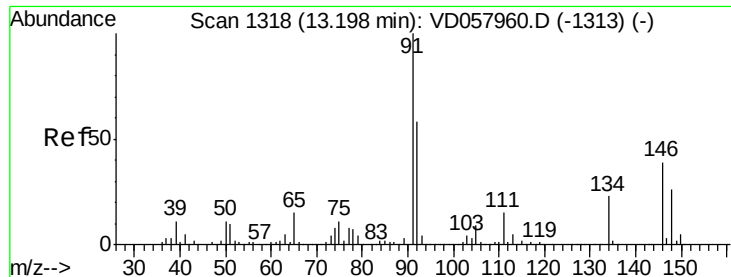
#84
1,2,4-Trimethylbenzene
Concen: 1.503 ug/l
RT: 12.62 min Scan# 1259
Delta R.T. -0.01 min
Lab File: VD057970.D
Acq: 7 Jun 2018 14:29

Tgt Ion: 105 Resp: 22116
Ion Ratio Lower Upper
105 100
120 33.7 21.2 63.6



Abundance Ion 105.05 (104.75 to 105.75): VD057960.D (-1250) (-)
Ion 120.05 (119.75 to 120.75): VD057960.D (-1250) (-)

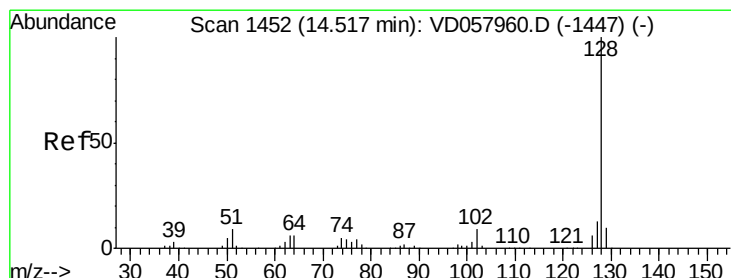
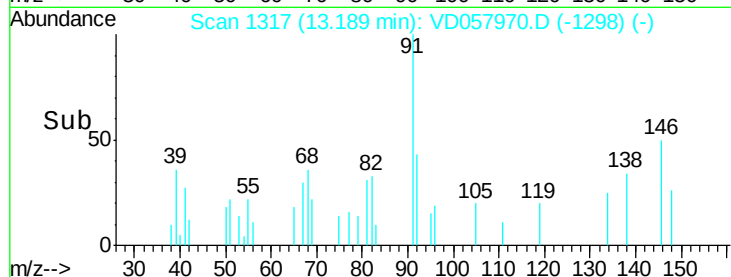
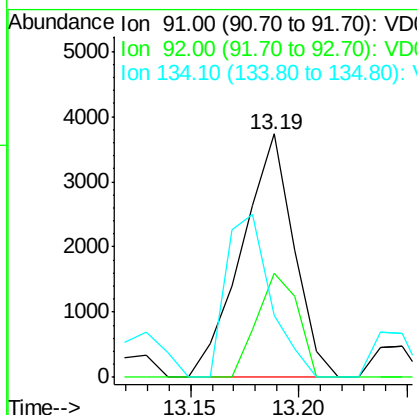
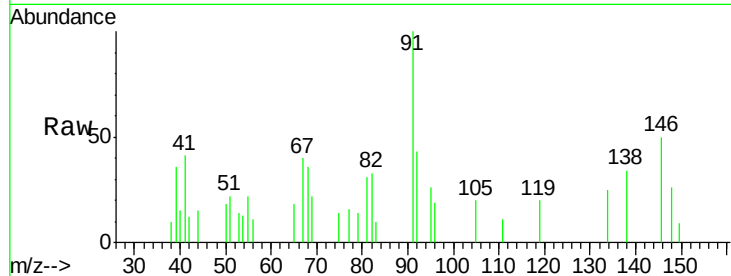




#89
n-Butylbenzene
Concen: Below Cal
RT: 13.19 min Scan# 1317
Delta R.T. -0.01 min
Lab File: VD057970.D
Acq: 7 Jun 2018 14:29

Instrument :
MSVOA_D
ClientSampleId :
S39-0177

Tgt Ion: 91 Resp: 6290
Ion Ratio Lower Upper
91 100
92 42.8 29.2 87.6
134 25.4 11.3 33.9



#95
Naphthalene
Concen: 1.003 ug/l
RT: 14.51 min Scan# 1451
Delta R.T. -0.01 min
Lab File: VD057970.D
Acq: 7 Jun 2018 14:29

Tgt Ion: 128 Resp: 8578
Ion Ratio Lower Upper
128 100
127 13.8 10.2 15.2
129 12.6 8.2 12.2#

