

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041919\
 Data File : VD061931.D
 Acq On : 20 Apr 2019 4:57
 Operator : VA/AP
 Sample : K2201-03
 Misc : 6.74g/5ml/MSVOA D/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 20 05:34:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 13:49:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	218448	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	388166	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.38	117	322547	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	157807	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	116823	63.81	ug/l	0.01
Spiked Amount			Recovery	=	127.62%	
35) Dibromofluoromethane	6.94	113	132835	45.30	ug/l	0.02
Spiked Amount			Recovery	=	90.60%	
50) Toluene-d8	10.43	98	246917	35.53	ug/l	0.02
Spiked Amount			Recovery	=	71.06%	
62) 4-Bromofluorobenzene	13.56	95	119127	42.30	ug/l	0.00
Spiked Amount			Recovery	=	84.60%	

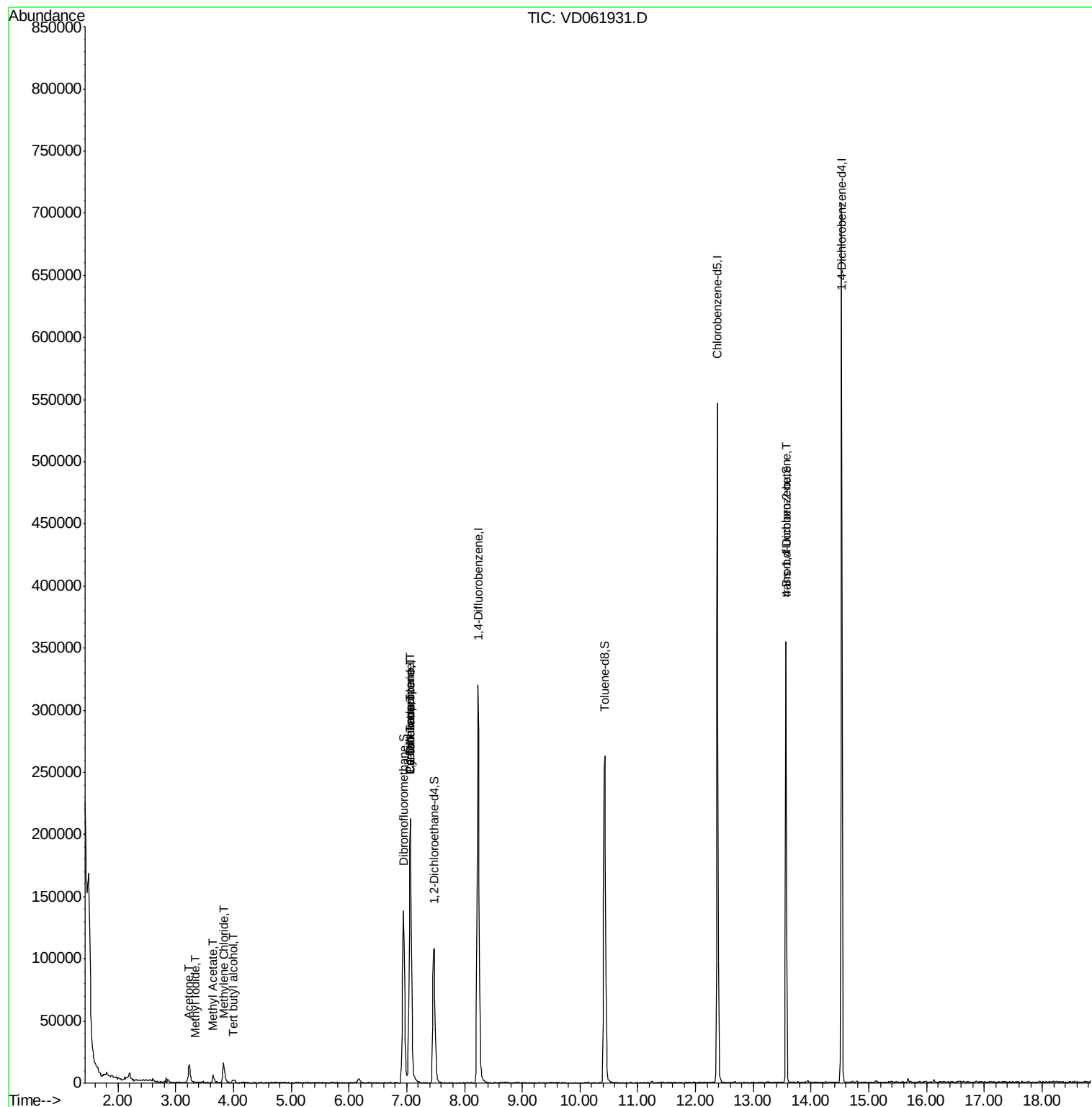
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	418	Below Cal	#	12
10) Methyl Iodide	3.33	142	284	3.582	ug/l #	37
11) Tert butyl alcohol	3.99	59	2348	21.747	ug/l #	76
16) Acetone	3.23	43	26564	58.871	ug/l	100
18) Methyl Acetate	3.65	43	10210	11.289	ug/l #	87
20) Methylene Chloride	3.83	84	12513	1.092	ug/l	87
31) Cyclohexane	7.06	56	2894	1.044	ug/l #	1
36) 1,1-Dichloropropene	7.06	75	15657	4.936	ug/l #	46
38) Carbon Tetrachloride	7.06	117	20043	5.004	ug/l #	16
81) trans-1,4-Dichloro-2-buten	13.56	75	44977	65.831	ug/l #	16

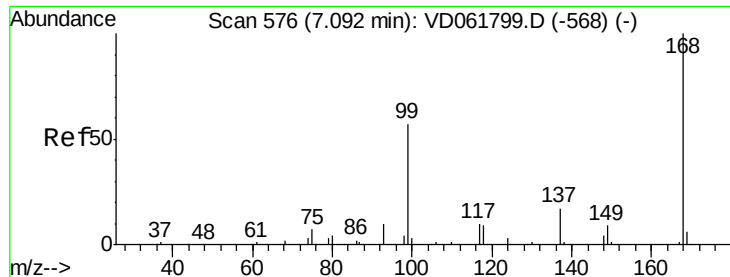
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Apr 18 13:49:04 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.01 min

Lab File: VD061931.D

Acq: 20 Apr 2019 4:57

Instrument :

MSVOA_D

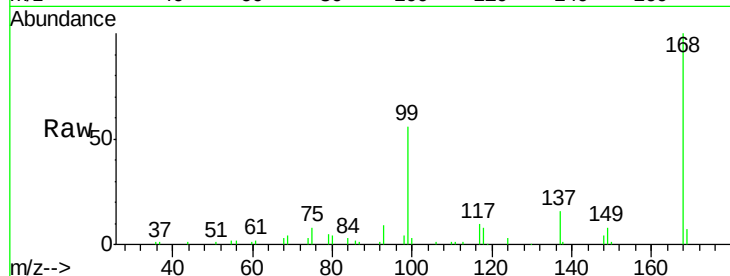
ClientSampleId :

Tot Ion:168 Resp: 218448

Ion Ratio Lower Upper

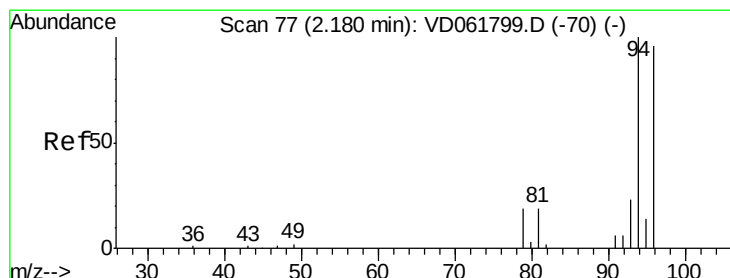
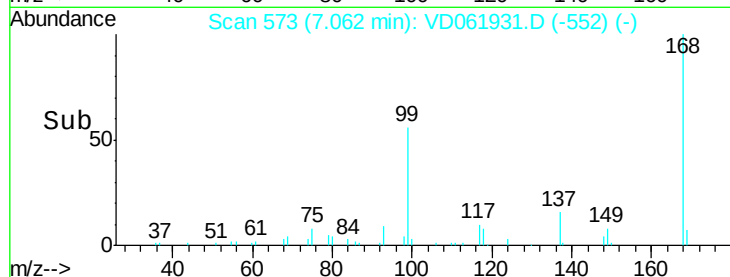
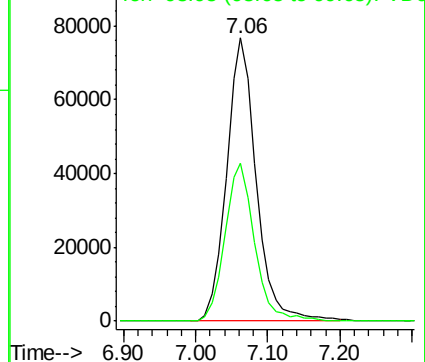
168 100

99 56.0 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.14 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD061931.D

Acq: 20 Apr 2019 4:57

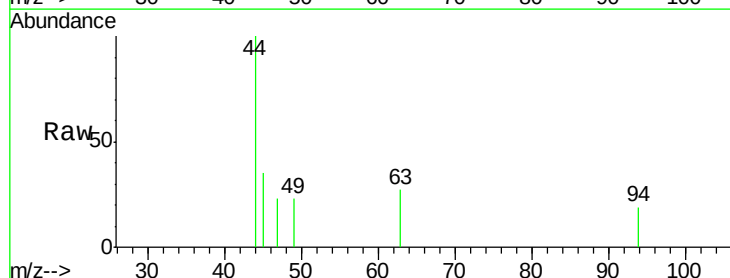
Tgt Ion: 94 Resp: 418

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

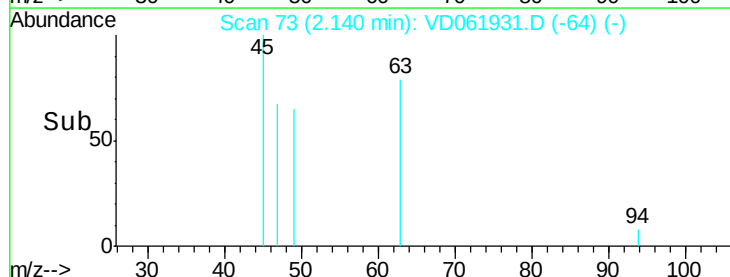
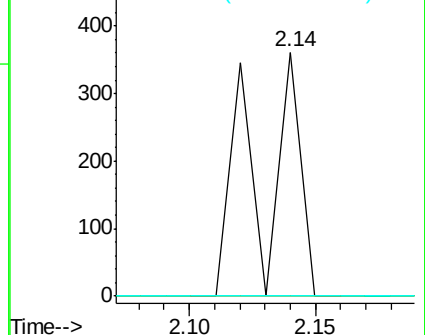
93 0.0 18.5 27.7#

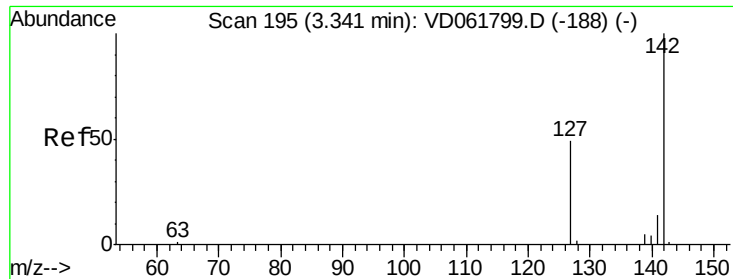


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

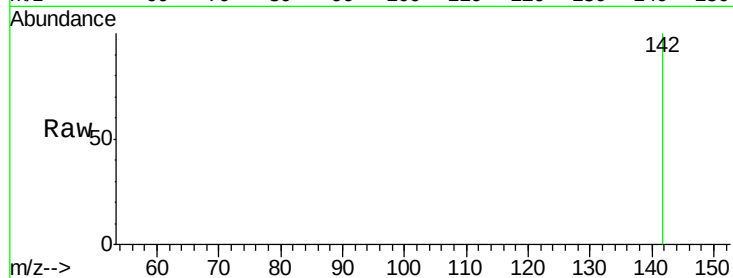




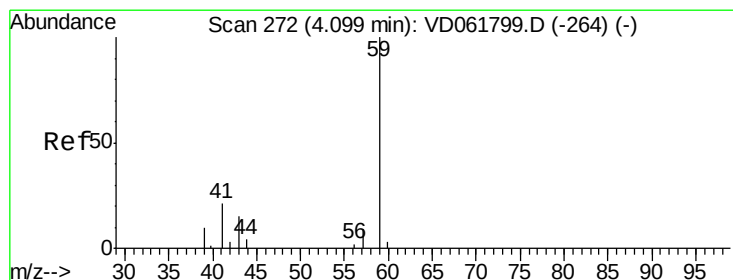
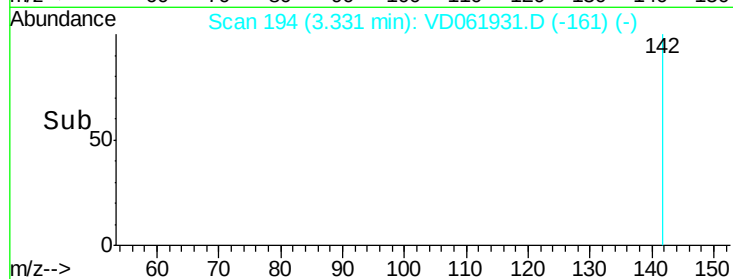
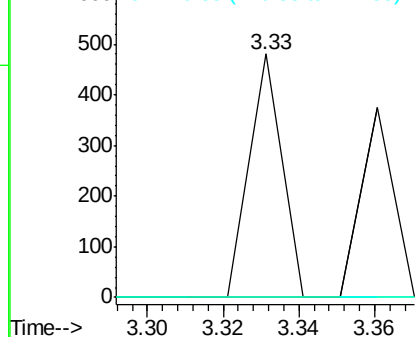
#10
Methyl Iodide
Concen: 3.582 ug/l
RT: 3.33 min Scan# 194
Delta R.T. 0.02 min
Lab File: VD061931.D
Acq: 20 Apr 2019 4:57

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:142 Resp: 284
Ion Ratio Lower Upper
142 100
127 0.0 38.8 58.2#
141 0.0 11.4 17.0#

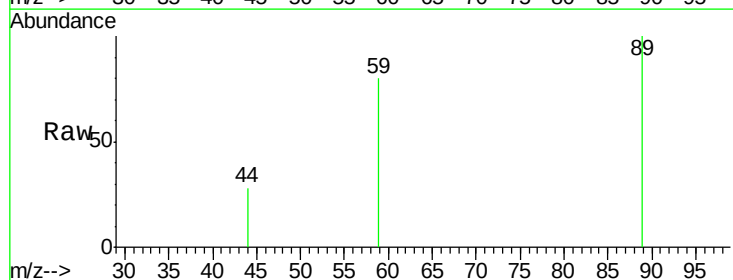


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

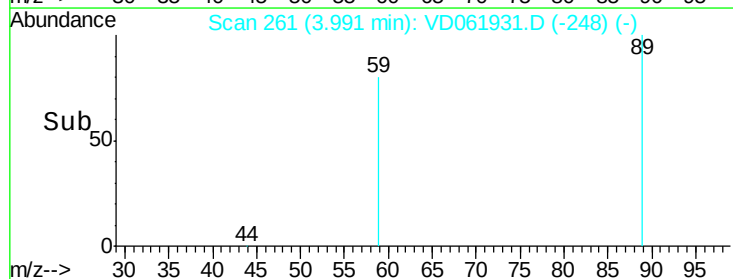
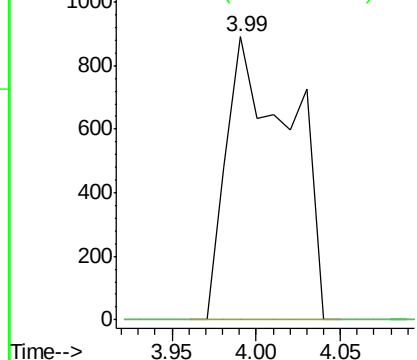


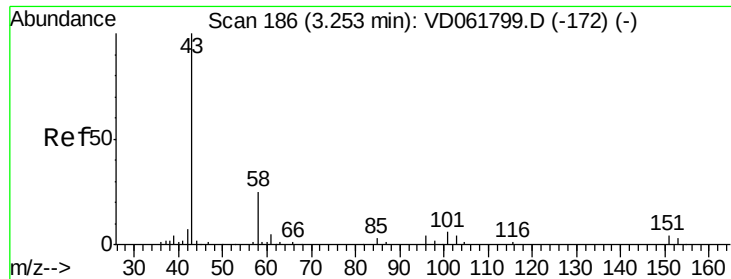
#11
Tert butyl alcohol
Concen: 21.747 ug/l
RT: 3.99 min Scan# 261
Delta R.T. -0.07 min
Lab File: VD061931.D
Acq: 20 Apr 2019 4:57

Tgt Ion: 59 Resp: 2348
Ion Ratio Lower Upper
59 100
57 0.0 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): V
Ion 56.95 (56.65 to 57.65): V





#16

Acetone

Concen: 58.871 ug/l

RT: 3.23 min Scan# 184

Delta R.T. 0.02 min

Lab File: VD061931.D

Acq: 20 Apr 2019 4:57

Instrument :

MSVOA_D

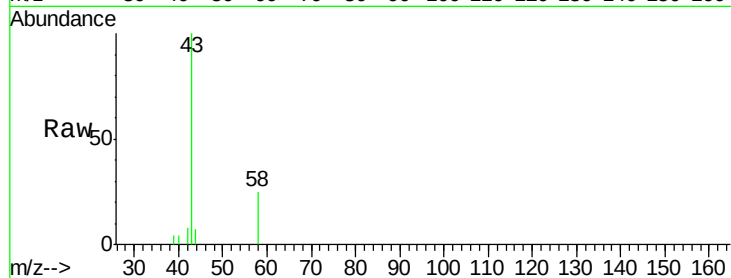
ClientSampleId :

Tot Ion: 43 Resp: 26564

Ion Ratio Lower Upper

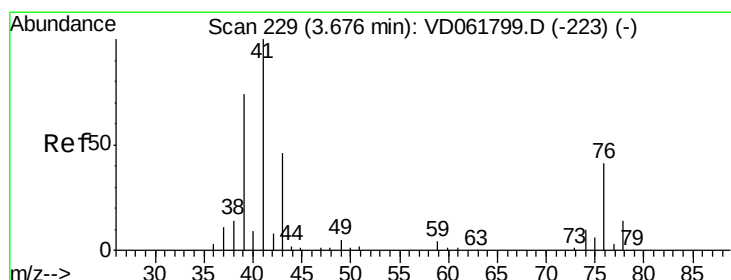
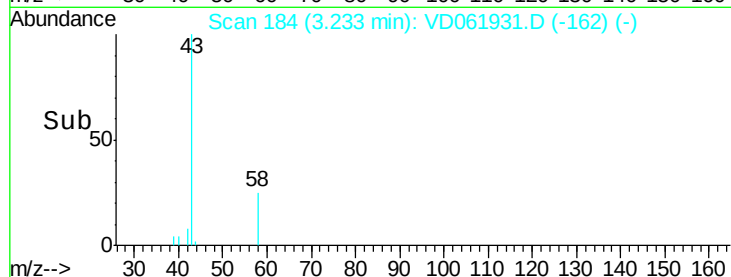
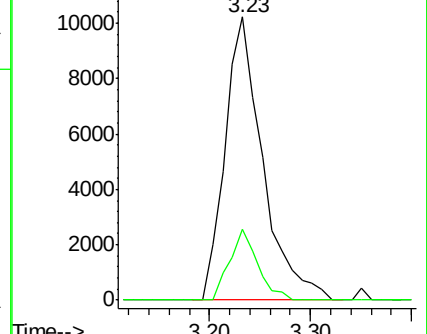
43 100

58 25.0 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 11.289 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.01 min

Lab File: VD061931.D

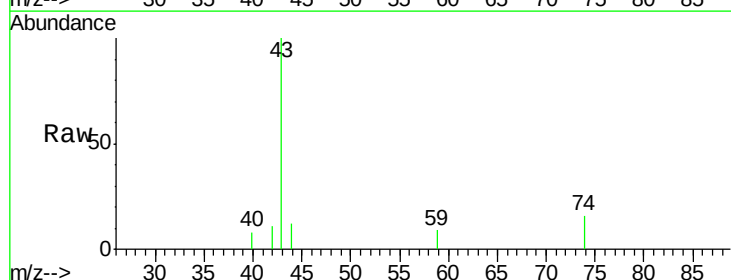
Acq: 20 Apr 2019 4:57

Tgt Ion: 43 Resp: 10210

Ion Ratio Lower Upper

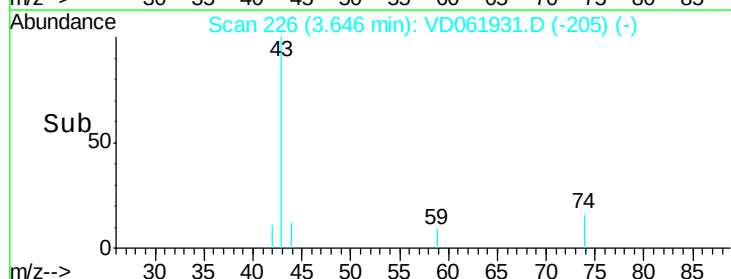
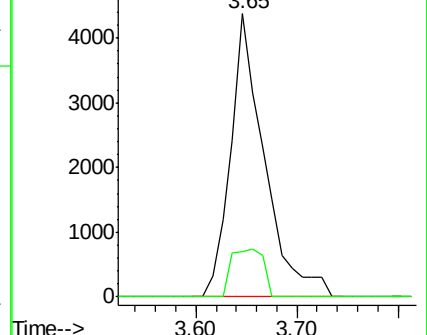
43 100

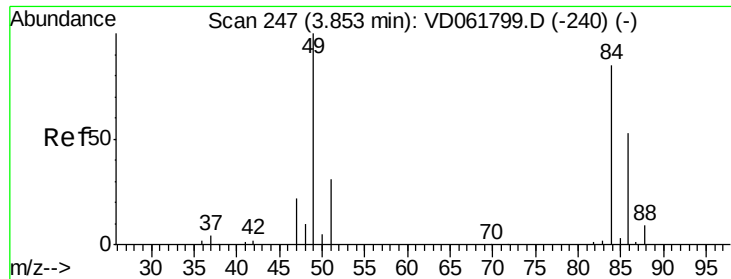
74 16.1 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

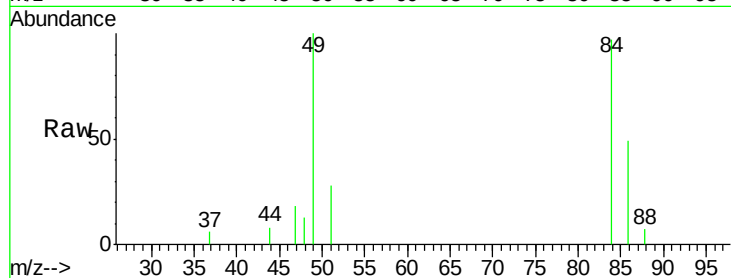




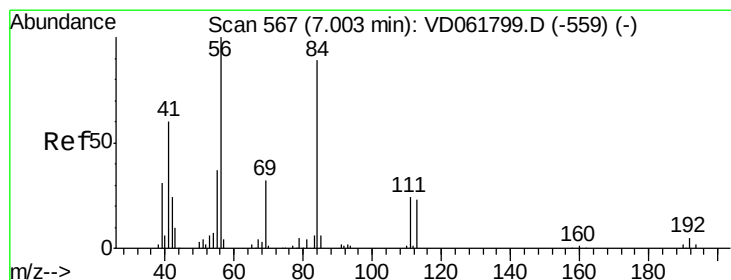
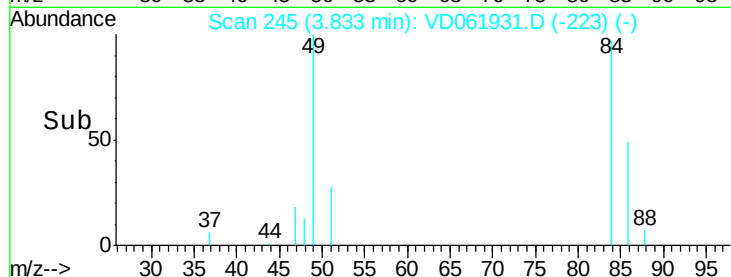
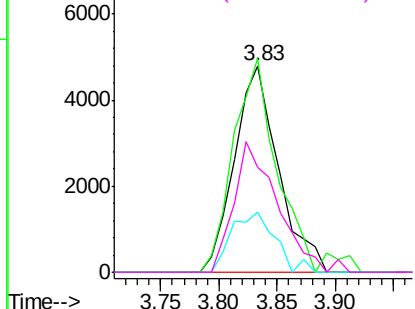
#20
Methylene Chloride
Concen: 1.092 ug/l
RT: 3.83 min Scan# 245
Delta R.T. 0.02 min
Lab File: VD061931.D
Acq: 20 Apr 2019 4:57

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 12513
Ion Ratio Lower Upper
84 100
49 103.5 94.0 141.0
51 29.2 29.0 43.4
86 50.8 49.8 74.6

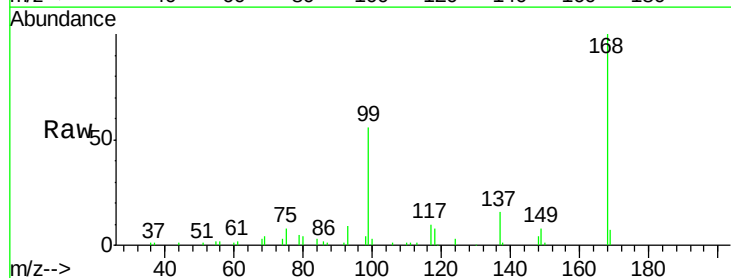


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

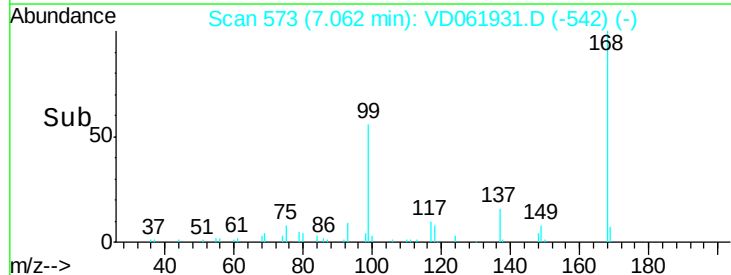
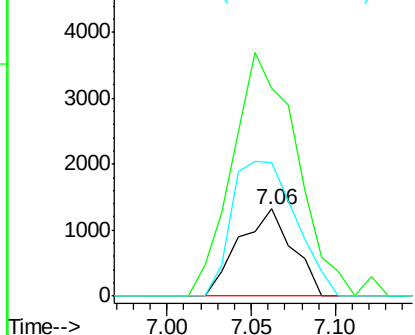


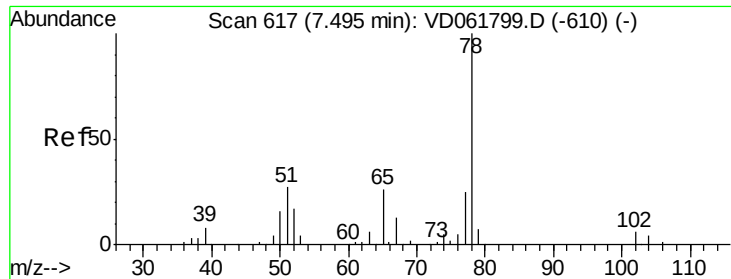
#31
Cyclohexane
Concen: 1.044 ug/l
RT: 7.06 min Scan# 573
Delta R.T. 0.11 min
Lab File: VD061931.D
Acq: 20 Apr 2019 4:57

Tgt Ion: 56 Resp: 2894
Ion Ratio Lower Upper
56 100
69 239.3 25.8 38.6#
84 153.9 72.2 108.4#



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: 7.47 min Scan# 614

Delta R.T. 0.01 min

Lab File: VD061931.D

Acq: 20 Apr 2019 4:57

Instrument :

MSVOA_D

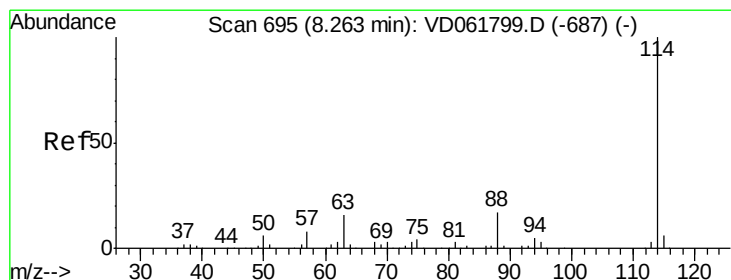
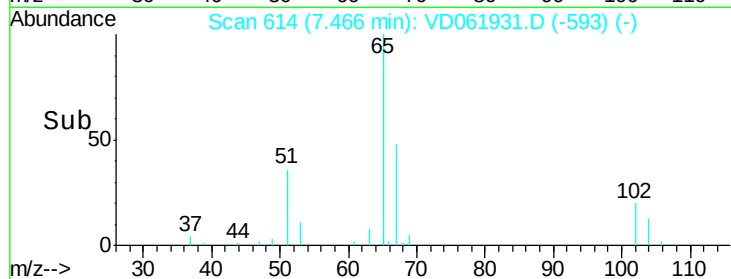
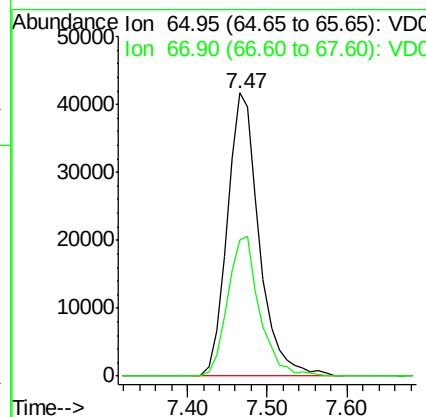
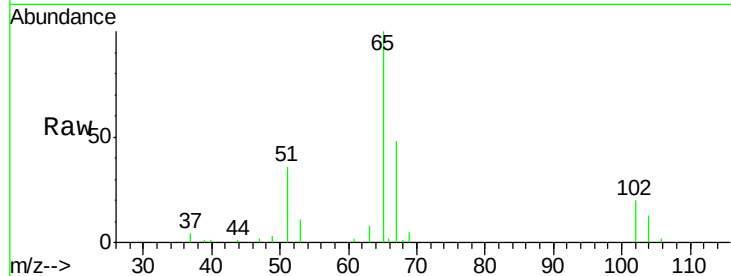
ClientSampleId :

Tot Ion: 65 Resp: 116823

Ion Ratio Lower Upper

65 100

67 48.0 0.0 98.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 692

Delta R.T. 0.01 min

Lab File: VD061931.D

Acq: 20 Apr 2019 4:57

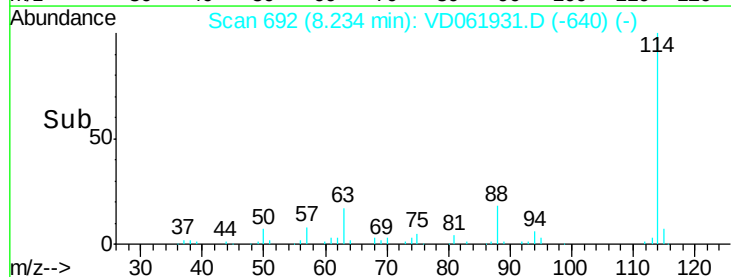
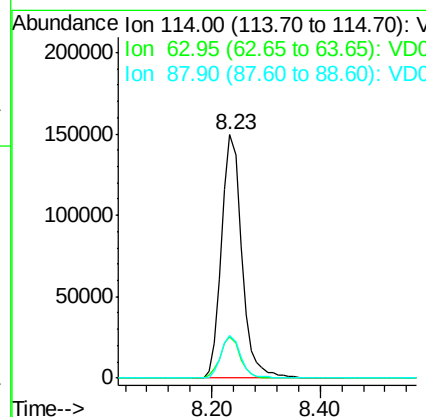
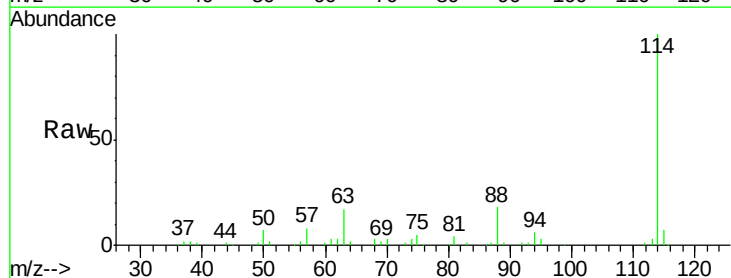
Tgt Ion: 114 Resp: 388166

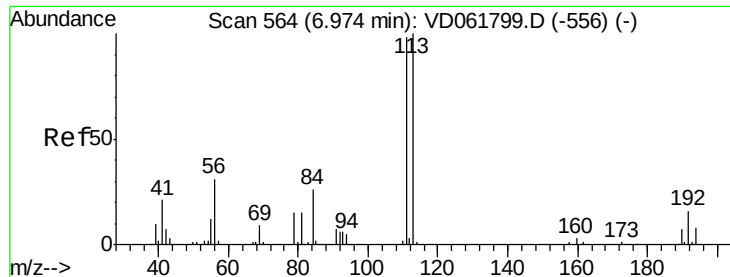
Ion Ratio Lower Upper

114 100

63 16.8 0.0 32.4

88 17.7 0.0 33.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.94 min Scan# 561

Delta R.T. 0.02 min

Lab File: VD061931.D

Acq: 20 Apr 2019 4:57

Instrument :

MSVOA_D

ClientSampleId :

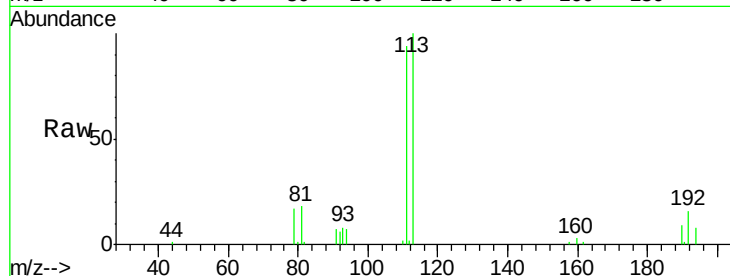
Tot Ion:113 Resp: 132835

Ion Ratio Lower Upper

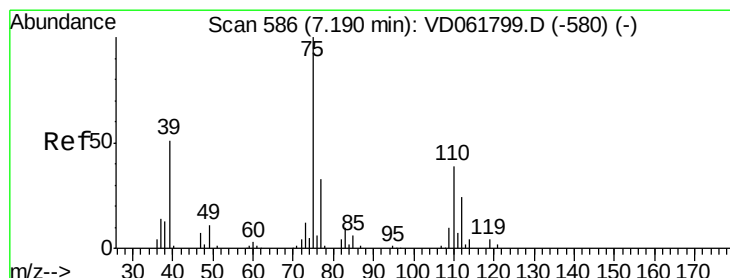
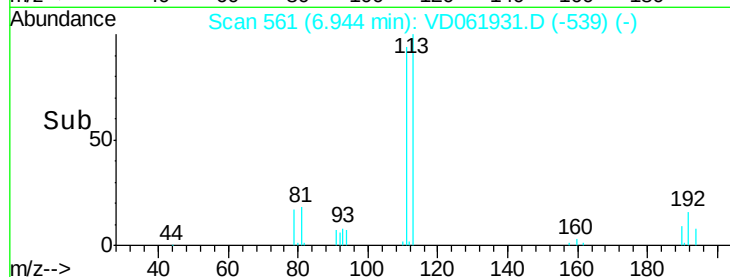
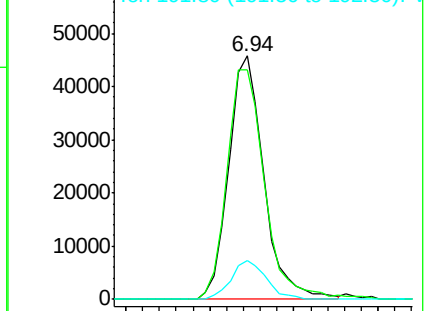
113 100

111 94.3 78.5 117.7

192 15.7 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 4.936 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.09 min

Lab File: VD061931.D

Acq: 20 Apr 2019 4:57

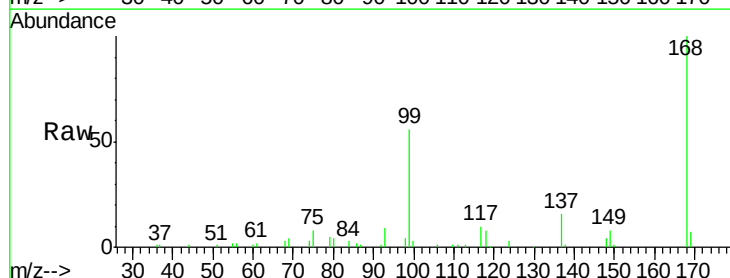
Tgt Ion: 75 Resp: 15657

Ion Ratio Lower Upper

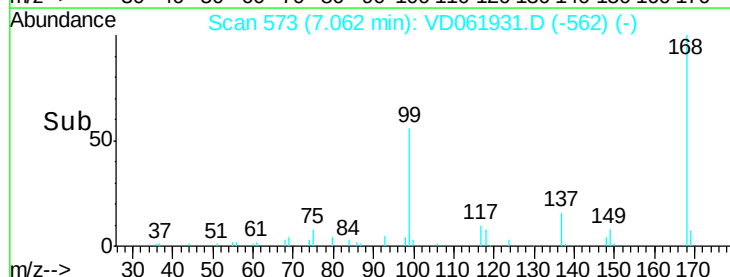
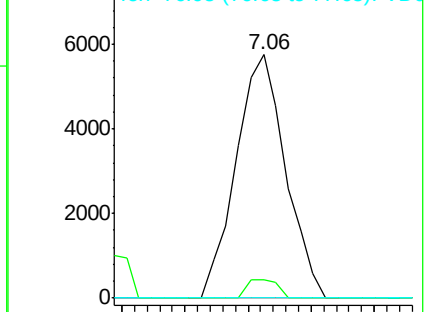
75 100

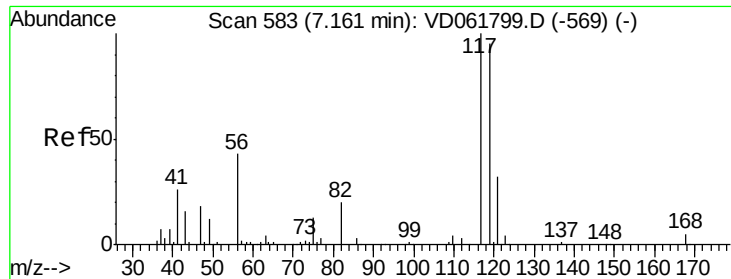
110 7.5 19.1 57.1#

77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 5.004 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.05 min

Lab File: VD061931.D

Acq: 20 Apr 2019 4:57

Instrument :

MSVOA_D

ClientSampleId :

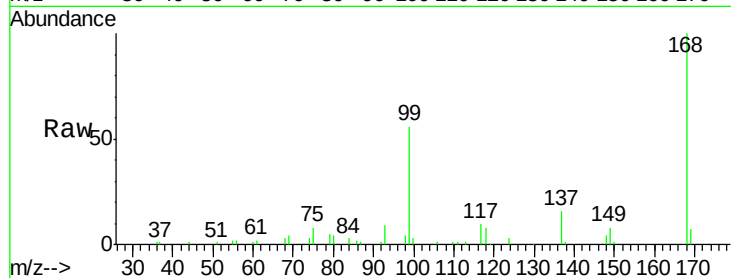
Tot Ion:117 Resp: 20043

Ion Ratio Lower Upper

117 100

119 4.4 75.8 113.8#

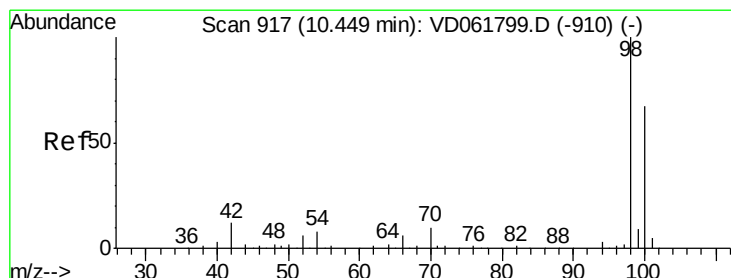
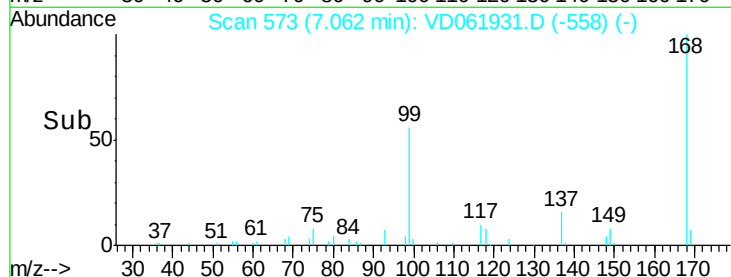
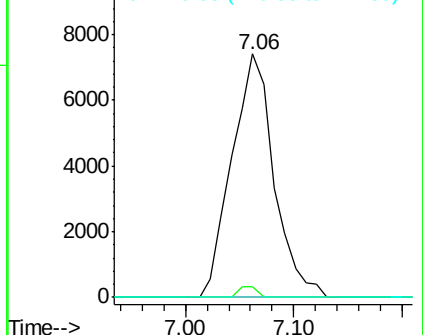
121 0.0 25.9 38.9#



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: 10.43 min Scan# 915

Delta R.T. 0.02 min

Lab File: VD061931.D

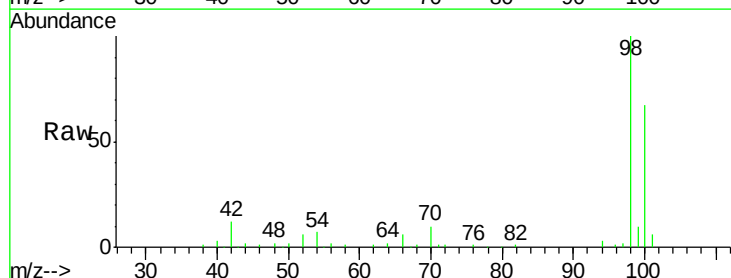
Acq: 20 Apr 2019 4:57

Tgt Ion: 98 Resp: 246917

Ion Ratio Lower Upper

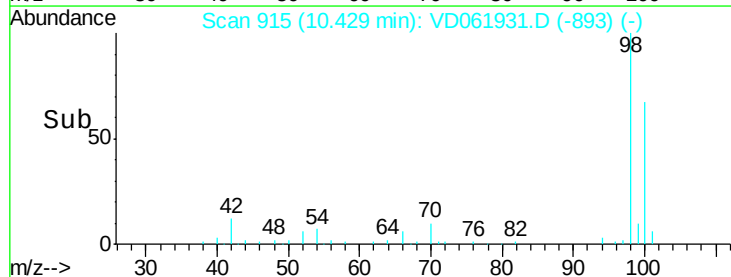
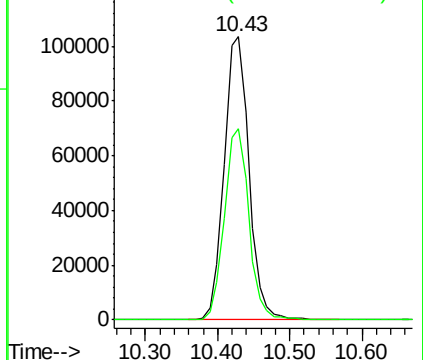
98 100

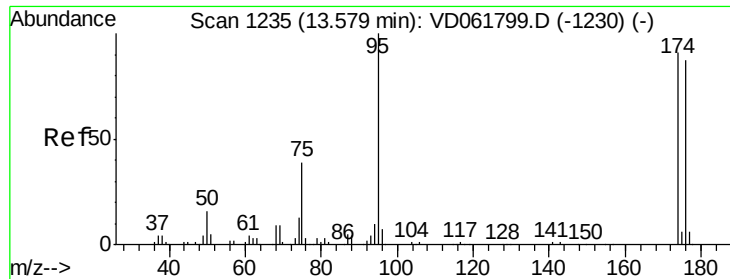
100 67.4 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

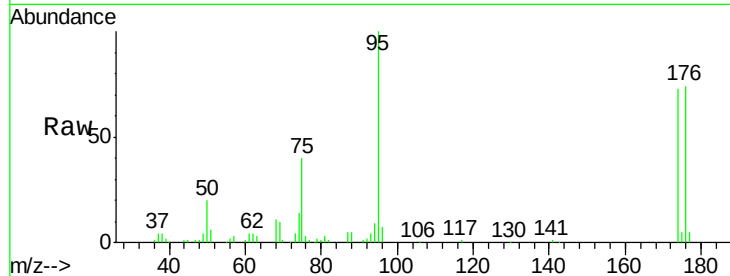




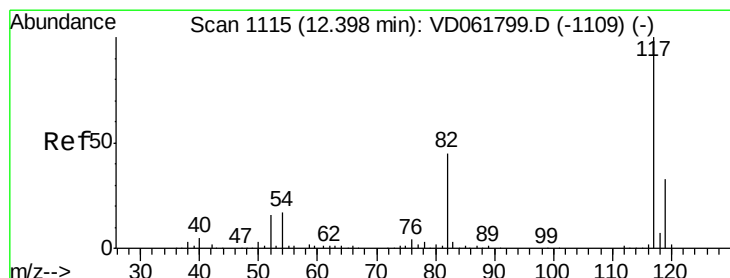
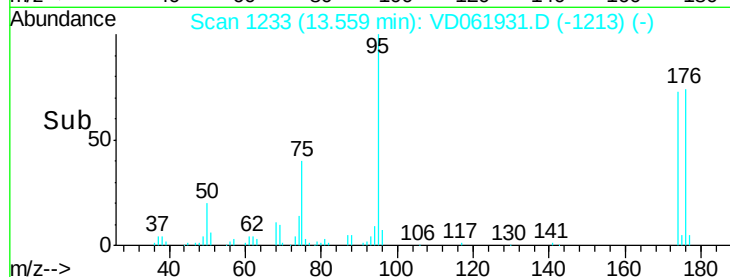
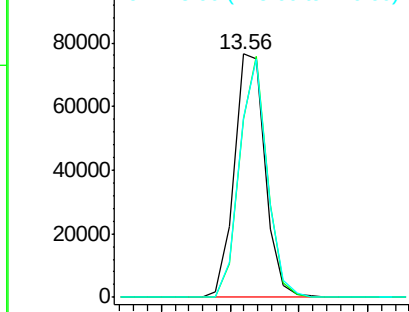
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.00 min
Lab File: VD061931.D
Acq: 20 Apr 2019 4:57

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 119127
Ion Ratio Lower Upper
95 100
174 73.1 0.0 181.8
176 73.9 0.0 174.4

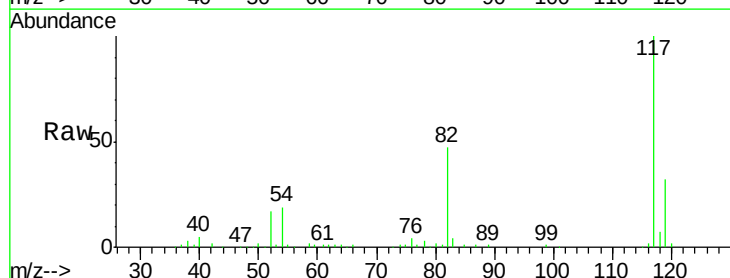


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

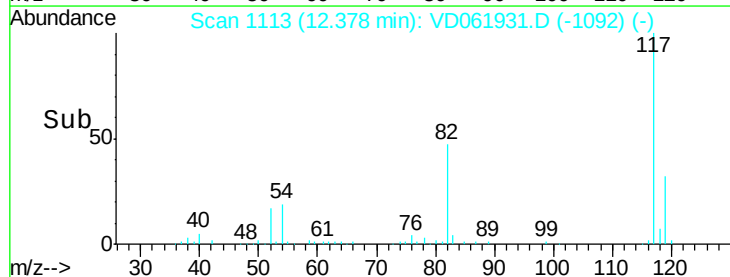
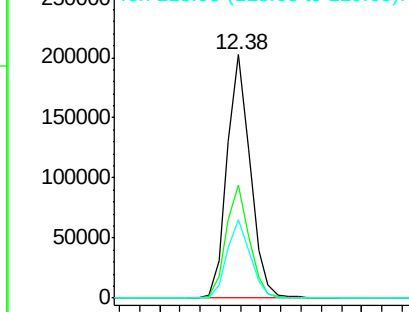


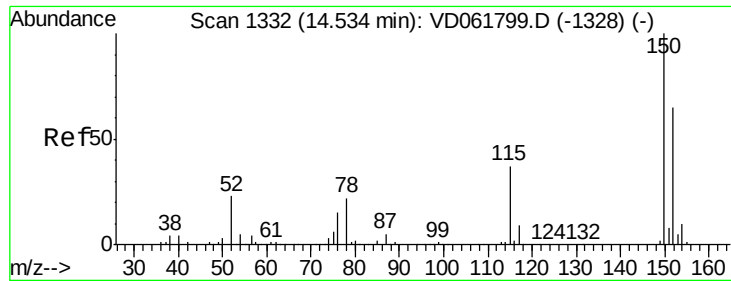
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VD061931.D
Acq: 20 Apr 2019 4:57

Tgt Ion: 117 Resp: 322547
Ion Ratio Lower Upper
117 100
82 46.6 36.2 54.2
119 32.2 26.2 39.4



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: 14.52 min Scan# 1331

Delta R.T. 0.00 min

Lab File: VD061931.D

Acq: 20 Apr 2019 4:57

Instrument :

MSVOA_D

ClientSampleId :

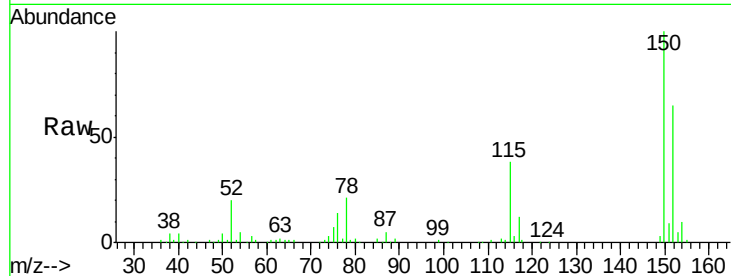
Tot Ion:152 Resp: 157807

Ion Ratio Lower Upper

152 100

115 58.1 30.9 92.7

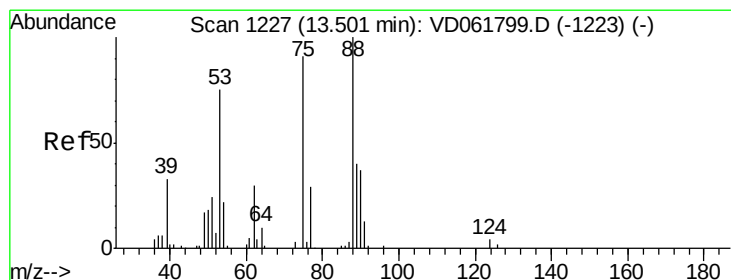
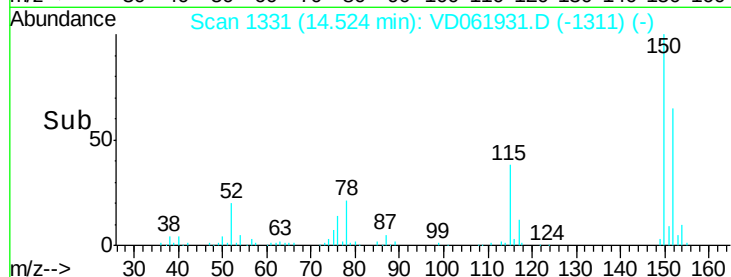
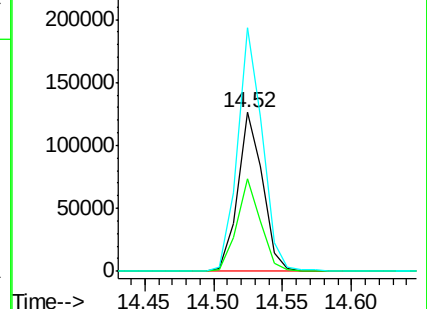
150 153.2 0.0 314.8



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: 65.831 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD061931.D

Acq: 20 Apr 2019 4:57

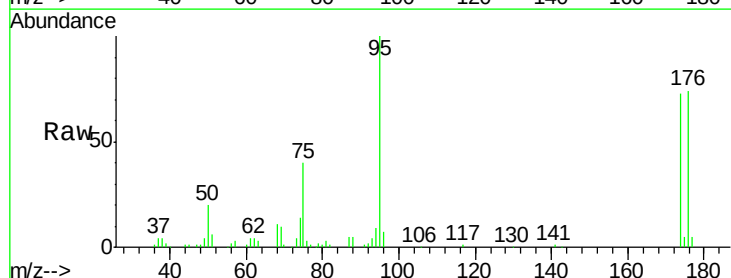
Tgt Ion: 75 Resp: 44977

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



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

