

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042419\
 Data File : VD062022.D
 Acq On : 25 Apr 2019 5:52
 Operator : VA/AP
 Sample : K2200-07
 Misc : 6.48g/5ml/MSVOA D/SOIL
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

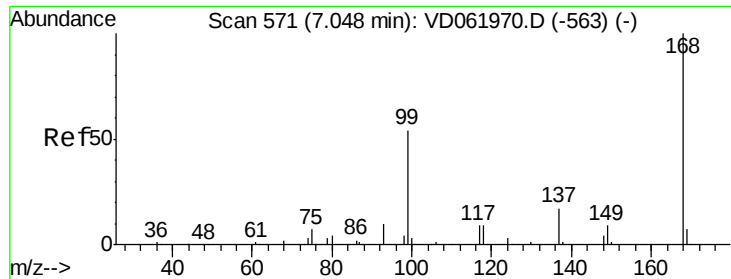
Quant Time: Apr 25 07:21:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 14:52:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	461451	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	709966	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	502056	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	221691	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	191097	52.91	ug/l	0.01
Spiked Amount			Recovery	=	105.82%	
35) Dibromofluoromethane	6.93	113	254022	51.73	ug/l	0.00
Spiked Amount			Recovery	=	103.46%	
50) Toluene-d8	10.42	98	440838	37.73	ug/l	0.00
Spiked Amount			Recovery	=	75.46%	
62) 4-Bromofluorobenzene	13.56	95	199251	42.52	ug/l	0.00
Spiked Amount			Recovery	=	85.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	229	Below Cal	#	12
8) Diethyl Ether	2.89	74	2520	1.959	ug/l	96
16) Acetone	3.23	43	38057	44.132	ug/l #	89
20) Methylene Chloride	3.83	84	49839	9.274	ug/l	97
31) Cyclohexane	7.05	56	8926	1.659	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	35273	6.377	ug/l #	44
38) Carbon Tetrachloride	7.06	117	46850	6.684	ug/l #	16
69) o-Xylene	13.05	106	26341	5.144	ug/l	91
74) N-amyl acetate	13.23	43	12420	3.261	ug/l #	58
75) 1,1,2,2-Tetrachloroethane	13.72	83	7326	2.528	ug/l #	48
78) n-propylbenzene	13.78	91	33073	1.954	ug/l	97
80) 1,3,5-Trimethylbenzene	13.93	105	191134	16.209	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.56	75	74572	87.413	ug/l #	17
82) 4-Chlorotoluene	13.93	91	21122	1.870	ug/l #	37
84) 1,2,4-Trimethylbenzene	14.24	105	29656	2.634	ug/l	99
85) sec-Butylbenzene	14.37	105	27085	1.835	ug/l	94
86) p-Isopropyltoluene	14.50	119	35481	2.686	ug/l	100
89) n-Butylbenzene	14.78	91	62778	5.294	ug/l #	1
90) Hexachloroethane	15.01	117	12384	3.467	ug/l #	20
92) 1,2-Dibromo-3-Chloropropan	15.38	75	966	4.775	ug/l #	1

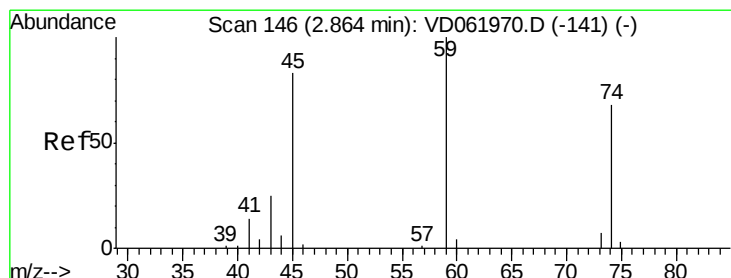
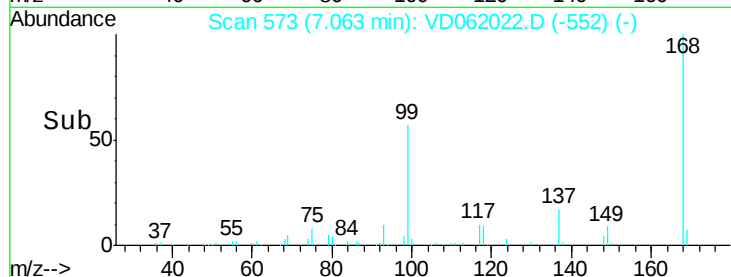
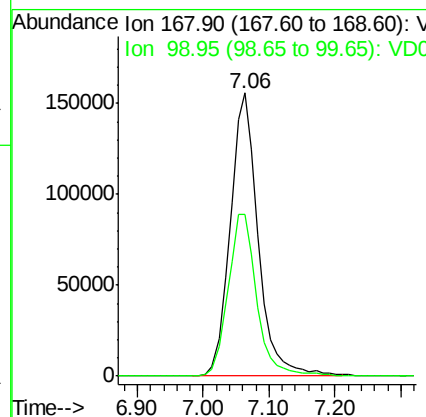
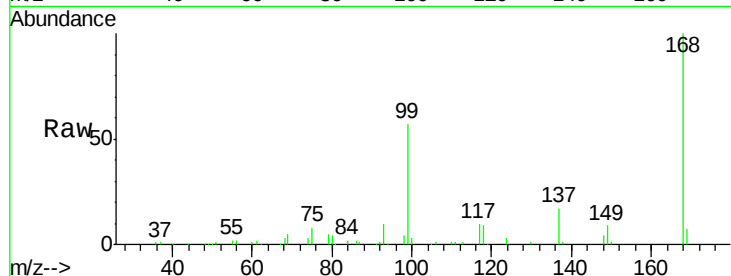
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.06 min Scan# 573
Delta R.T. 0.01 min
Lab File: VD062022.D
Acq: 25 Apr 2019 5:52

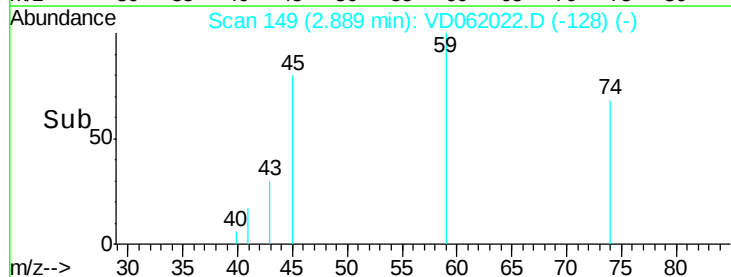
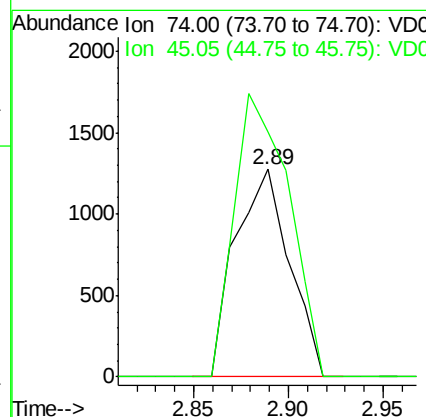
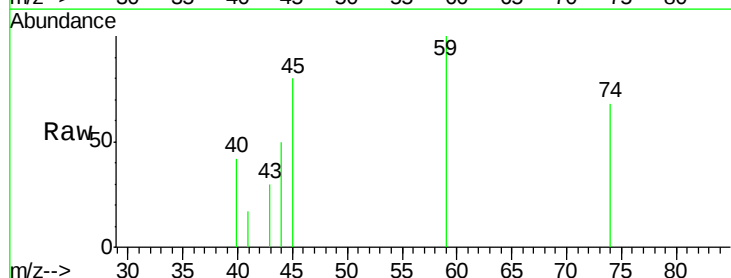
Instrument :
MSVOA_D
ClientSampleId :

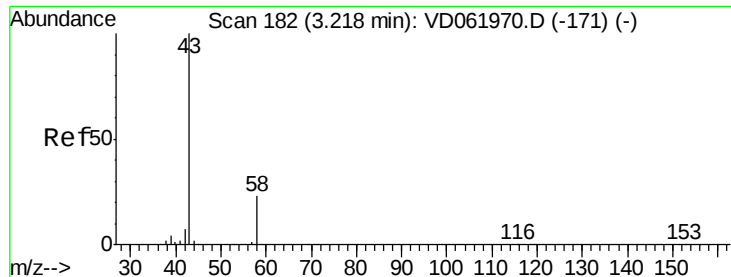
Tot Ion:168 Resp: 461451
Ion Ratio Lower Upper
168 100
99 57.3 46.5 69.7



#8
Diethyl Ether
Concen: 1.959 ug/l
RT: 2.89 min Scan# 149
Delta R.T. 0.01 min
Lab File: VD062022.D
Acq: 25 Apr 2019 5:52

Tgt Ion: 74 Resp: 2520
Ion Ratio Lower Upper
74 100
45 117.9 56.9 170.7





#16

Acetone

Concen: 44.132 ug/l

RT: 3.23 min Scan# 184

Delta R.T. 0.01 min

Lab File: VD062022.D

Acq: 25 Apr 2019 5:52

Instrument :

MSVOA_D

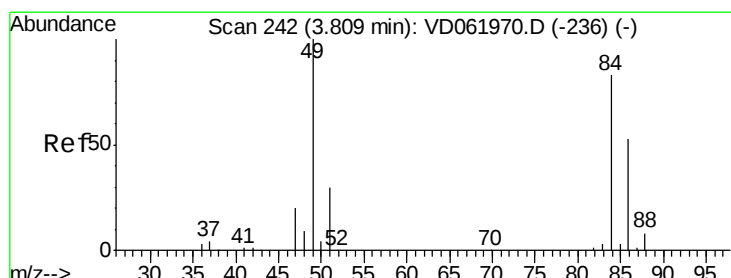
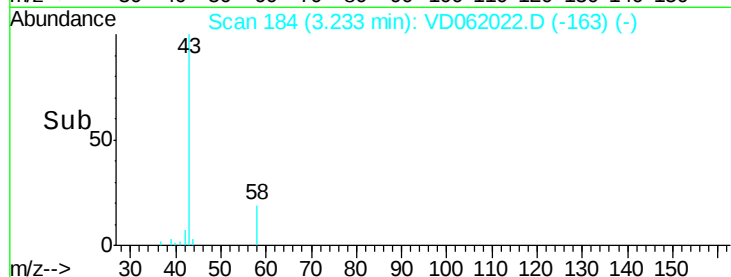
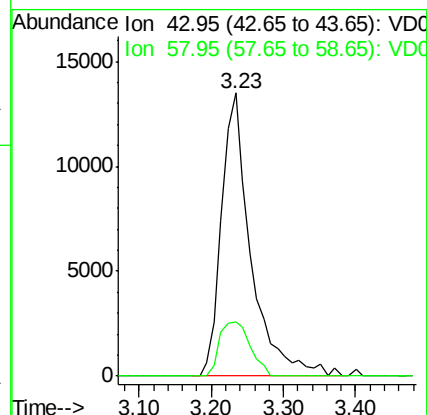
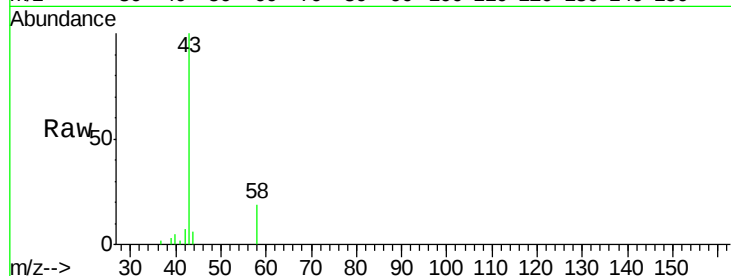
ClientSampleId :

Tot Ion: 43 Resp: 38057

Ion Ratio Lower Upper

43 100

58 19.4 19.9 29.9#



#20

Methylene Chloride

Concen: 9.274 ug/l

RT: 3.83 min Scan# 245

Delta R.T. 0.01 min

Lab File: VD062022.D

Acq: 25 Apr 2019 5:52

Tgt Ion: 84 Resp: 49839

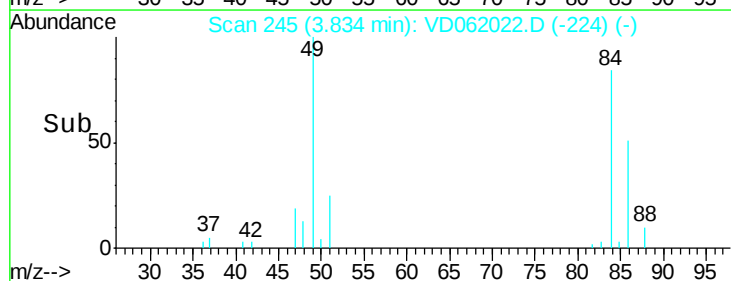
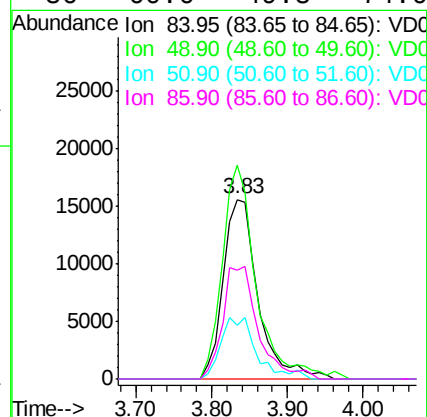
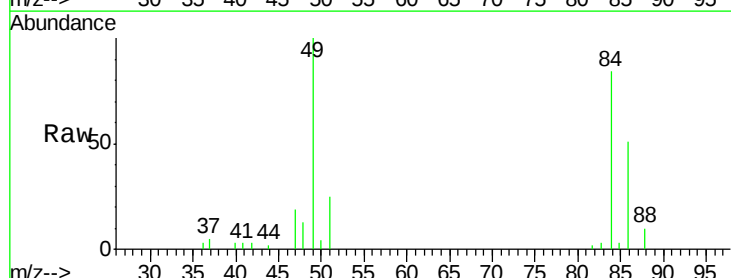
Ion Ratio Lower Upper

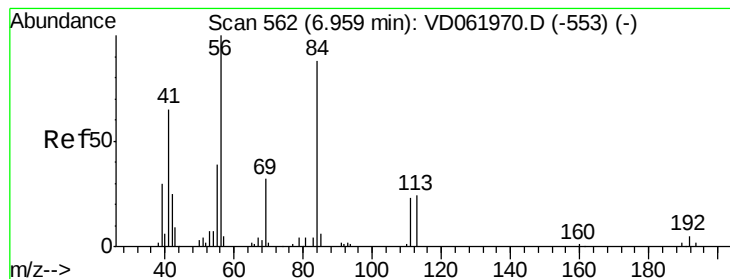
84 100

49 119.1 94.0 141.0

51 30.2 29.0 43.4

86 60.6 49.8 74.6





#31

Cvclohexane

Concen: 1.659 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.09 min

Lab File: VD062022.D

Acq: 25 Apr 2019 5:52

Instrument :

MSVOA_D

ClientSampled :

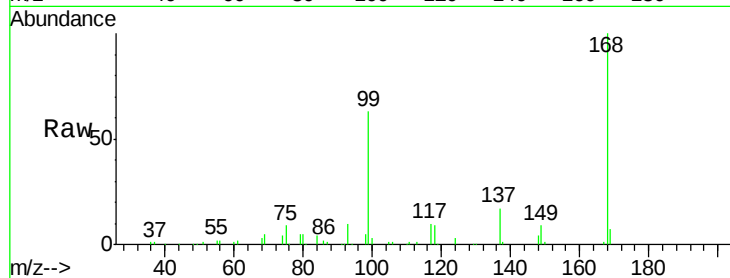
Tot Ion: 56 Resp: 8926

Ion Ratio Lower Upper

56 100

69 237.9 25.8 38.6#

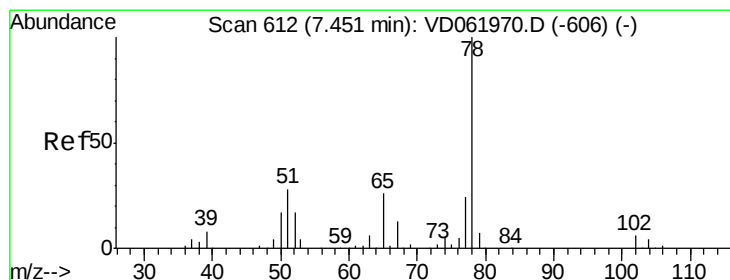
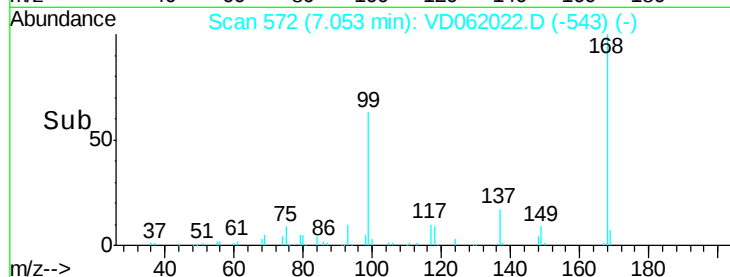
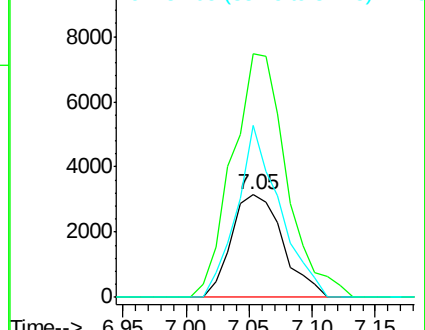
84 167.4 72.2 108.4#



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: VD062022.D

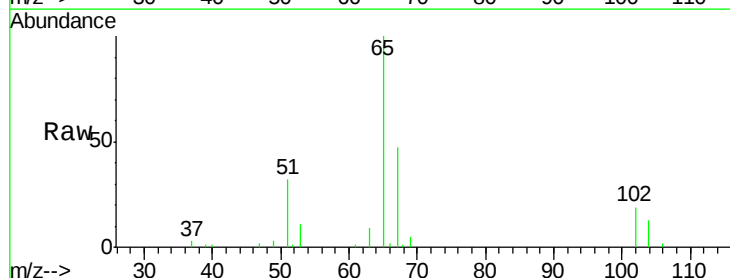
Acq: 25 Apr 2019 5:52

Tgt Ion: 65 Resp: 191097

Ion Ratio Lower Upper

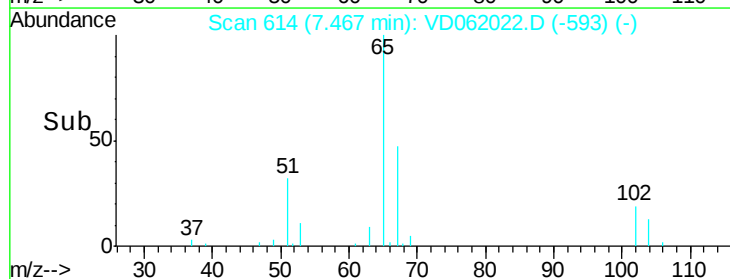
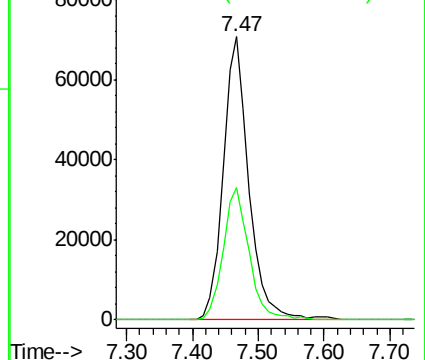
65 100

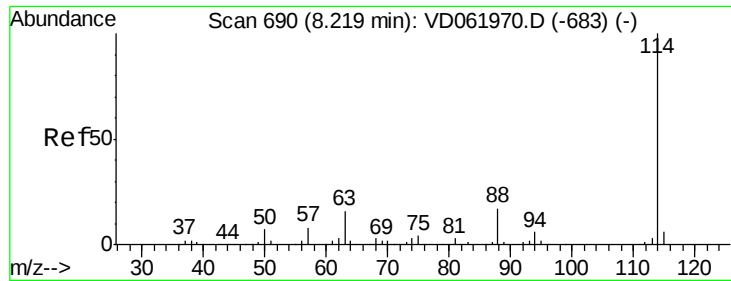
67 46.6 0.0 98.0



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: 8.23 min Scan# 692

Delta R.T. 0.01 min

Lab File: VD062022.D

Acq: 25 Apr 2019 5:52

Instrument :

MSVOA_D

ClientSampleId :

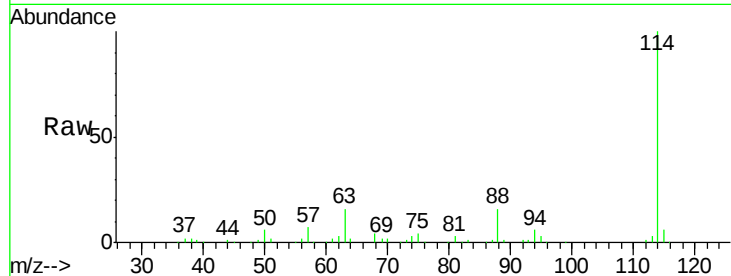
Tot Ion:114 Resp: 709966

Ion Ratio Lower Upper

114 100

63 16.3 0.0 32.4

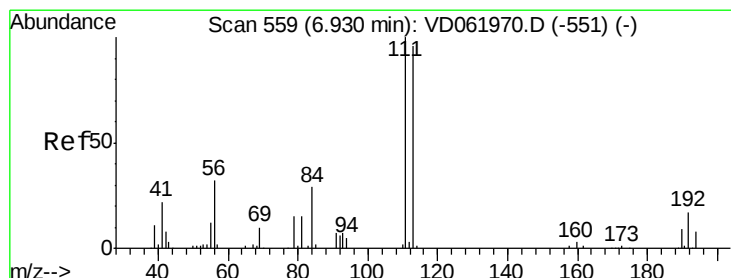
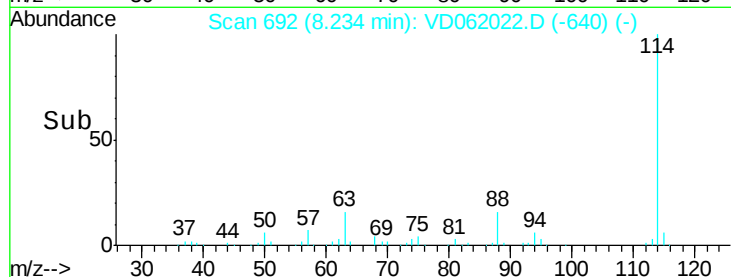
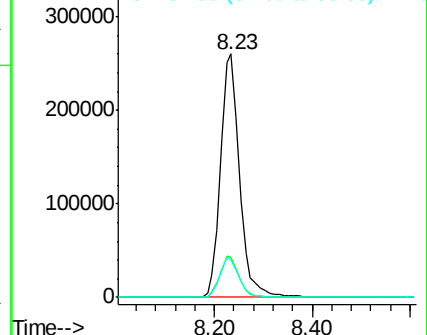
88 15.5 0.0 33.6



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: 6.93 min Scan# 560

Delta R.T. 0.00 min

Lab File: VD062022.D

Acq: 25 Apr 2019 5:52

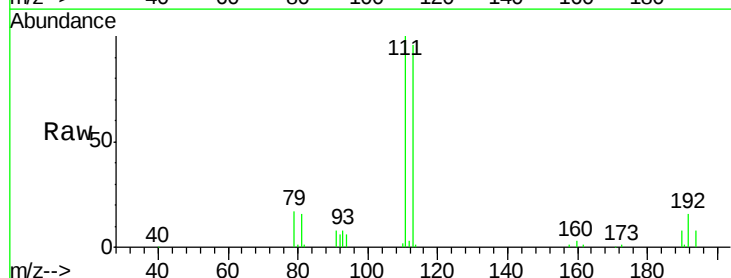
Tgt Ion:113 Resp: 254022

Ion Ratio Lower Upper

113 100

111 104.6 78.5 117.7

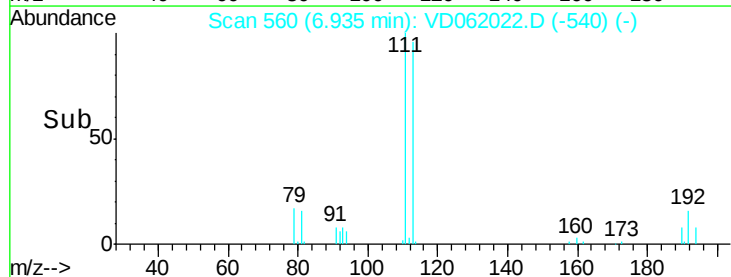
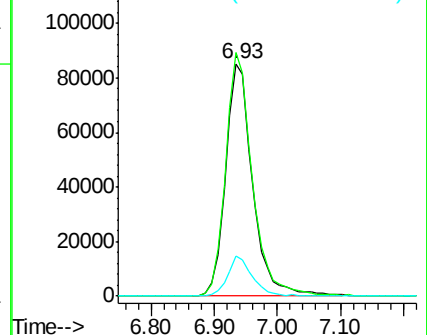
192 17.1 13.0 19.4

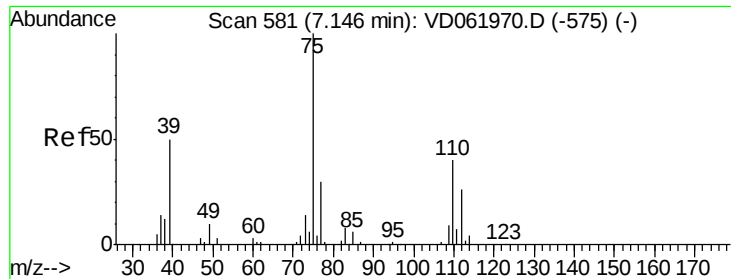


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 6.377 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.10 min

Lab File: VD062022.D

Acq: 25 Apr 2019 5:52

Instrument :
MSVOA_D
ClientSampleId :

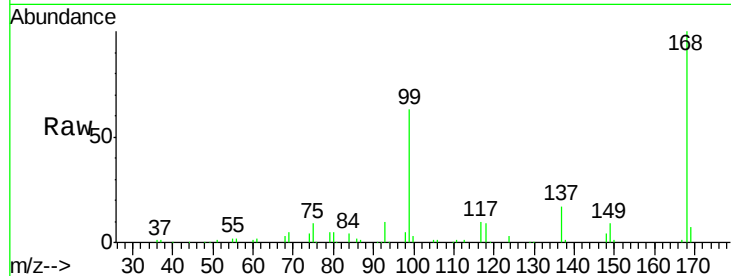
Tot Ion: 75 Resp: 35273

Ion Ratio Lower Upper

75 100

110 5.2 19.1 57.1#

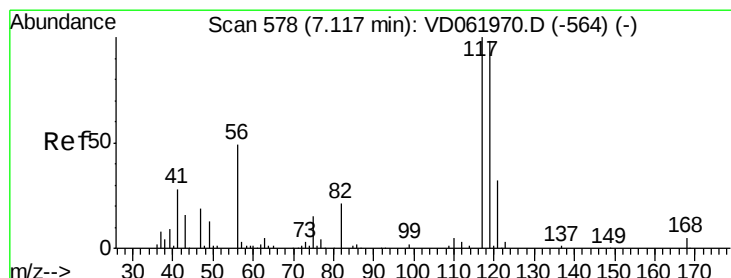
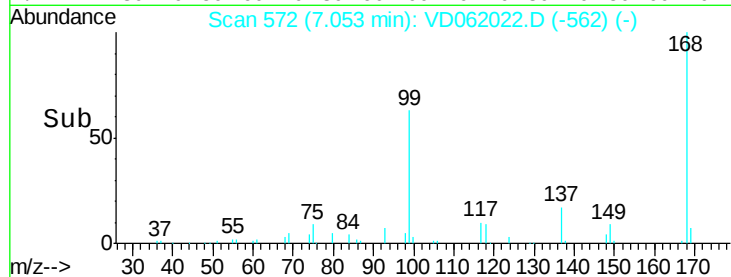
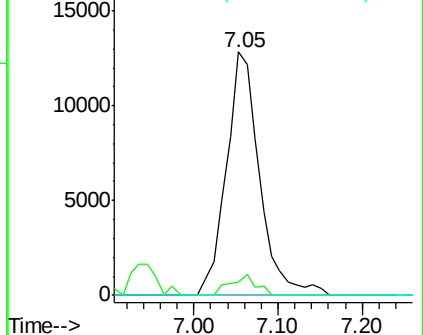
77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 6.684 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.06 min

Lab File: VD062022.D

Acq: 25 Apr 2019 5:52

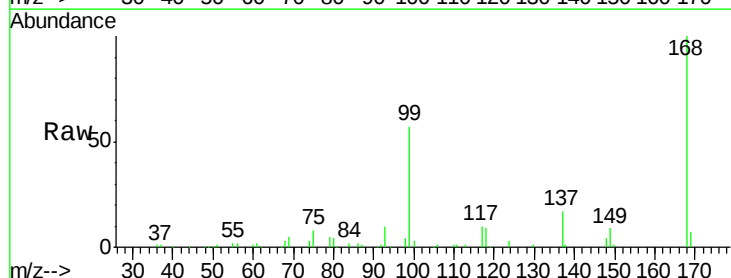
Tgt Ion: 117 Resp: 46850

Ion Ratio Lower Upper

117 100

119 4.3 75.8 113.8#

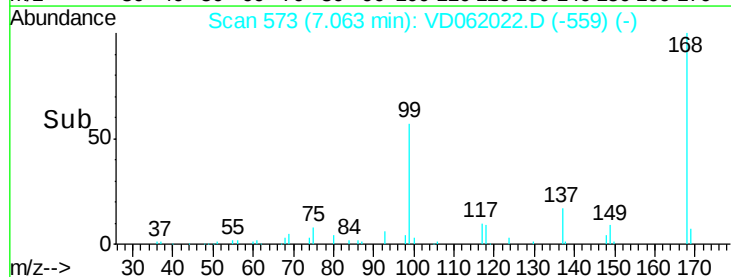
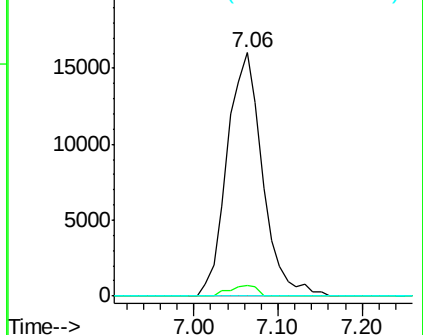
121 0.0 25.9 38.9#

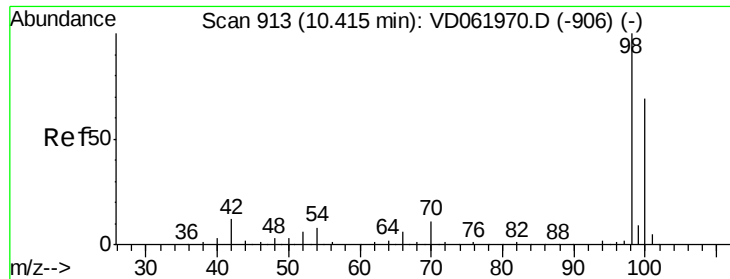


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

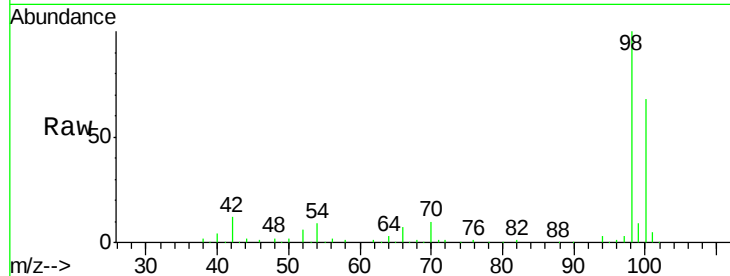




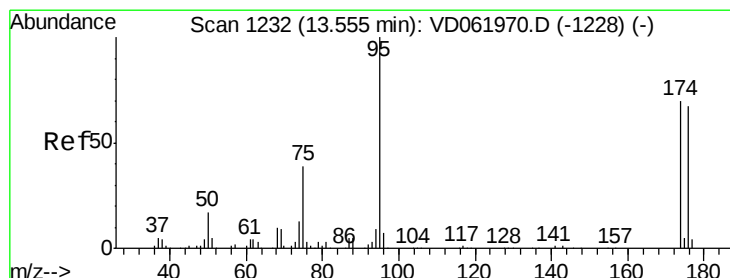
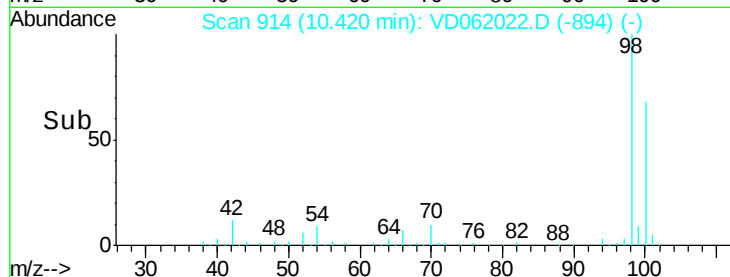
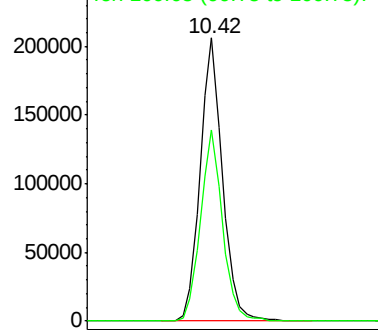
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD062022.D
Acq: 25 Apr 2019 5:52

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 440838
Ion Ratio Lower Upper
98 100
100 67.7 53.8 80.8

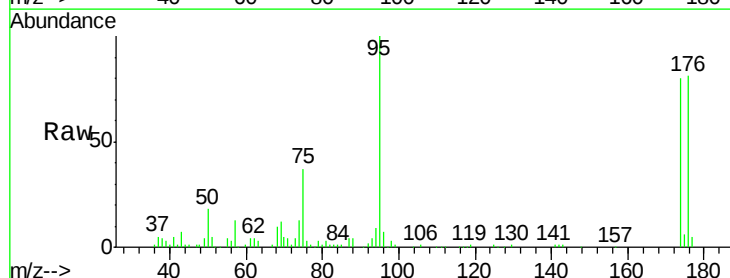


Abundance Ion 98.05 (97.75 to 98.75): VD061970.D (-906) (-)
Ion 100.05 (99.75 to 100.75): VD061970.D (-906) (-)

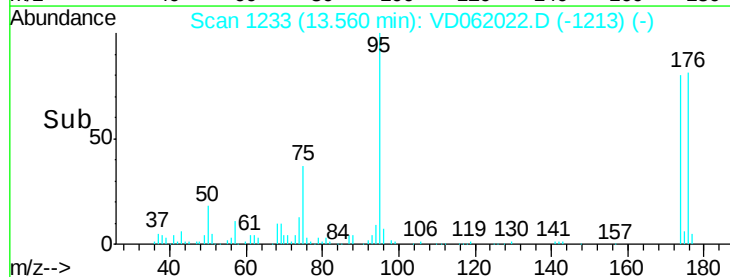
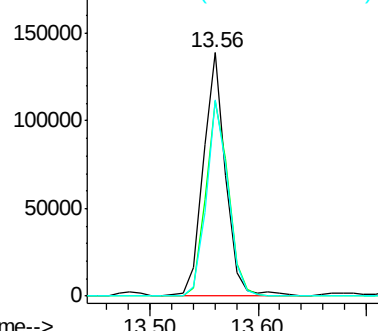


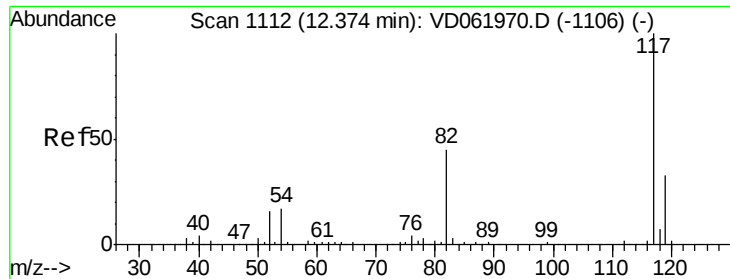
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.00 min
Lab File: VD062022.D
Acq: 25 Apr 2019 5:52

Tgt Ion: 95 Resp: 199251
Ion Ratio Lower Upper
95 100
174 80.0 0.0 181.8
176 80.7 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VD061970.D (-1228) (-)
Ion 173.90 (173.60 to 174.60): VD061970.D (-1228) (-)
Ion 175.90 (175.60 to 176.60): VD061970.D (-1228) (-)

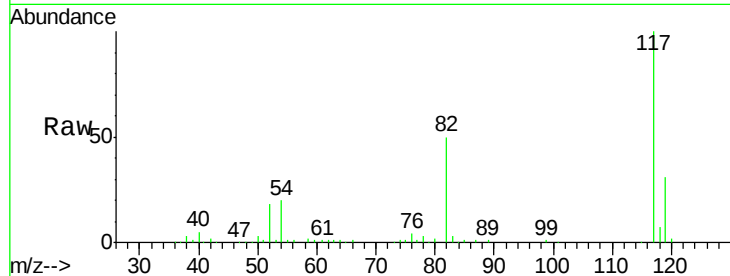




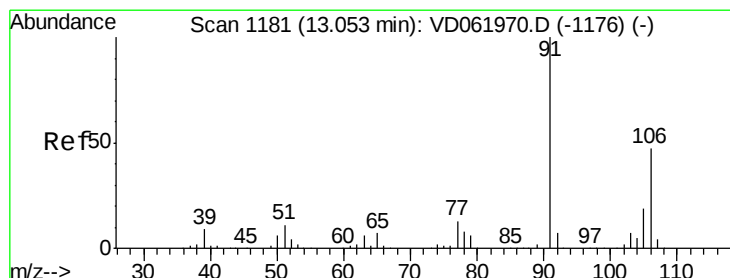
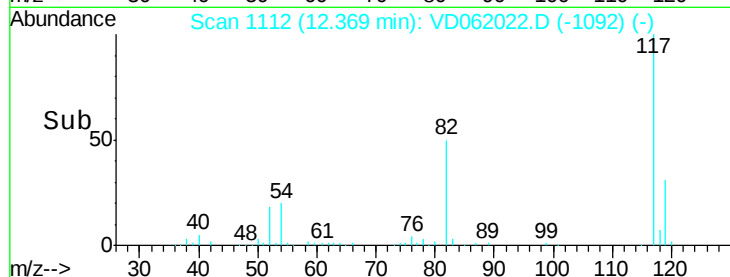
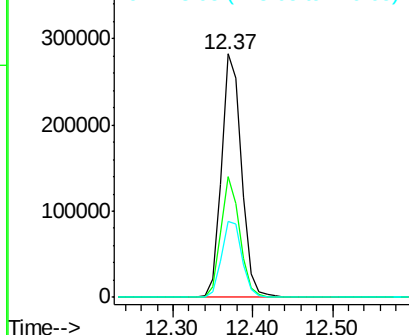
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VD062022.D
Acq: 25 Apr 2019 5:52

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 502056
Ion Ratio Lower Upper
117 100
82 49.6 36.2 54.2
119 31.4 26.2 39.4

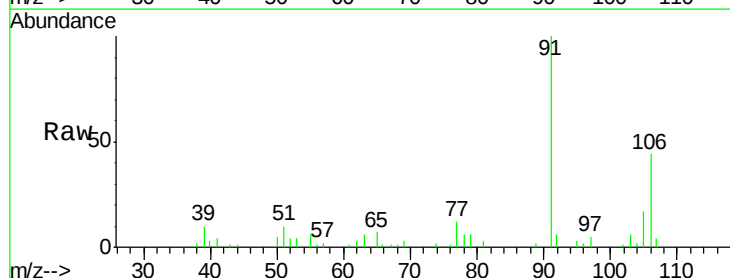


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

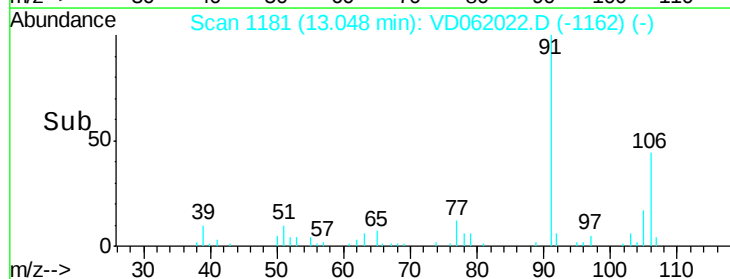
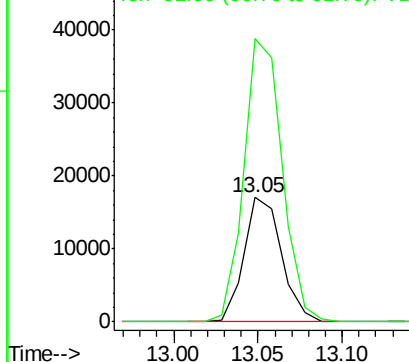


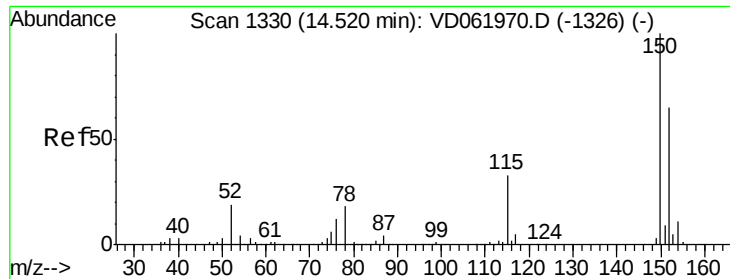
#69
o-Xylene
Concen: 5.144 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD062022.D
Acq: 25 Apr 2019 5:52

Tgt Ion:106 Resp: 26341
Ion Ratio Lower Upper
106 100
91 227.6 106.7 319.9



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): 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: VD062022.D

Acq: 25 Apr 2019 5:52

Instrument :

MSVOA_D

ClientSampleId :

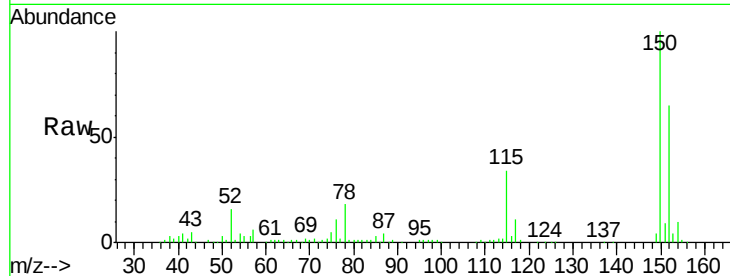
Tot Ion:152 Resp: 221691

Ion Ratio Lower Upper

152 100

115 52.0 30.9 92.7

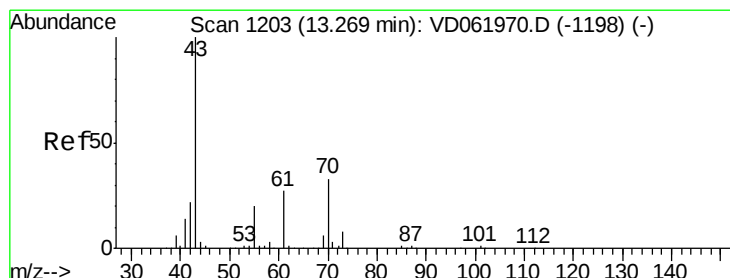
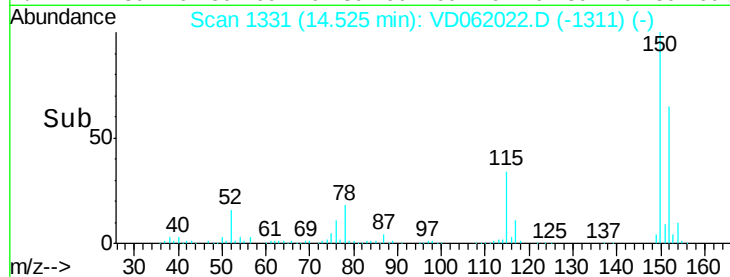
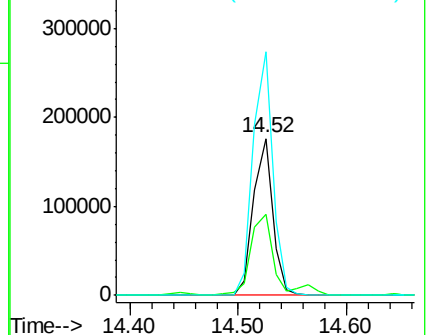
150 155.0 0.0 314.8



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



#74

N-ethyl acetate

Concen: 3.261 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. -0.04 min

Lab File: VD062022.D

Acq: 25 Apr 2019 5:52

Tgt Ion: 43 Resp: 12420

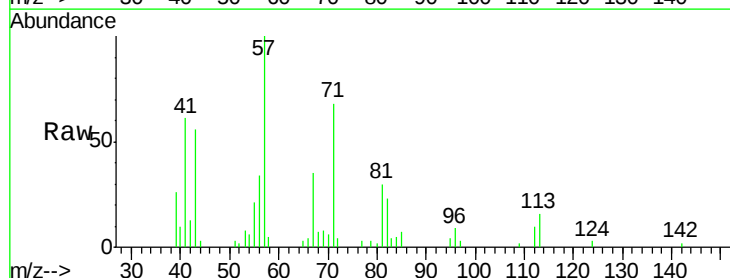
Ion Ratio Lower Upper

43 100

70 10.7 24.2 36.4#

55 37.4 16.0 24.0#

61 0.0 21.6 32.4#

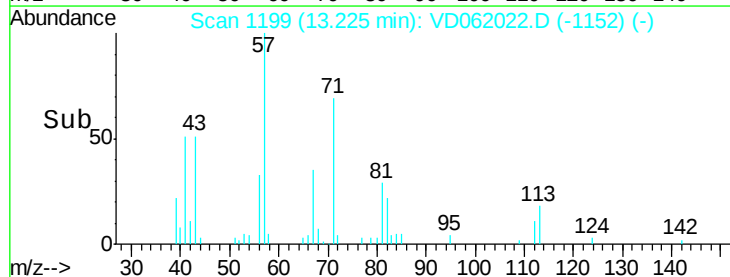
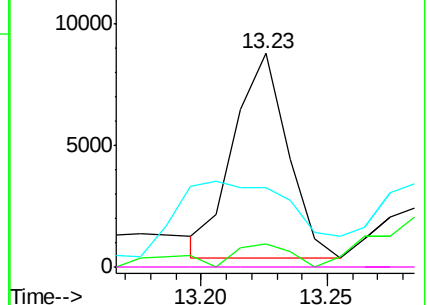


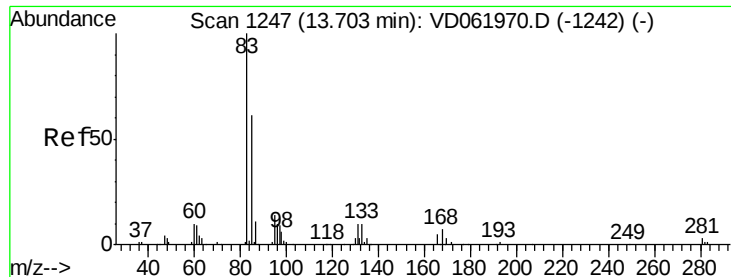
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 2.528 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. 0.02 min

Lab File: VD062022.D

Acq: 25 Apr 2019 5:52

Instrument :

MSVOA_D

ClientSampled :

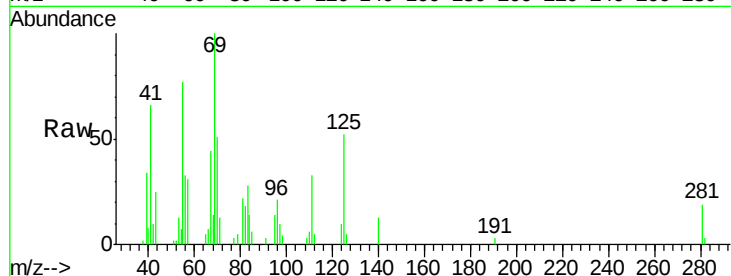
Tot Ion: 83 Resp: 7326

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

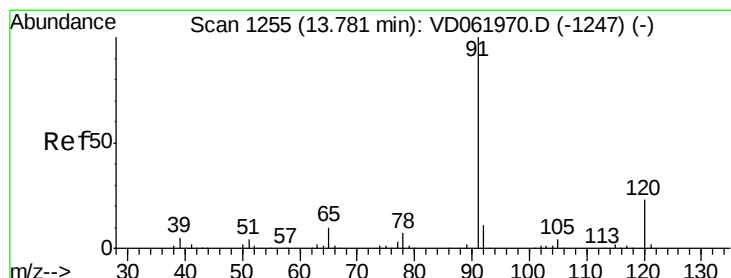
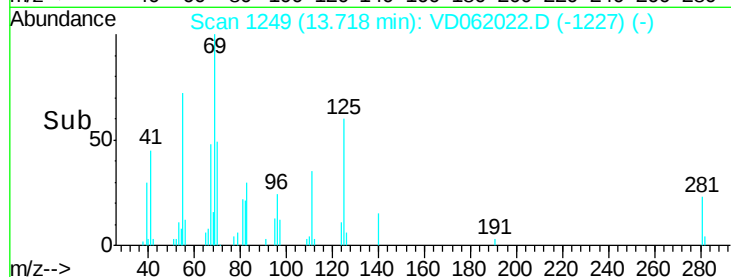
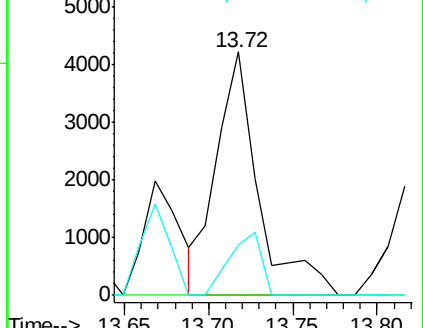
85 20.6 32.6 97.7#



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#78

n-propylbenzene

Concen: 1.954 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VD062022.D

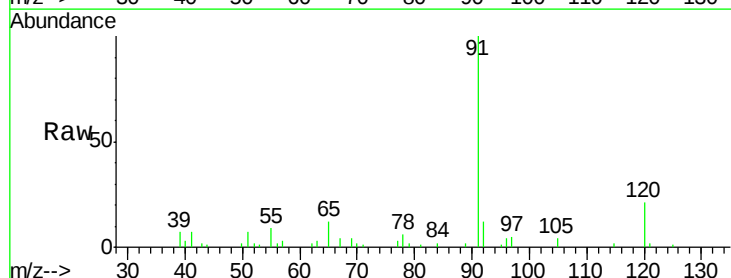
Acq: 25 Apr 2019 5:52

Tgt Ion: 91 Resp: 33073

Ion Ratio Lower Upper

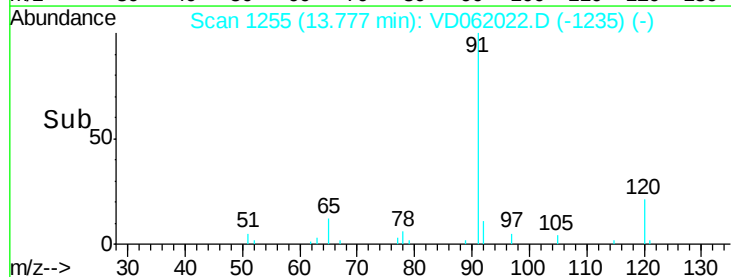
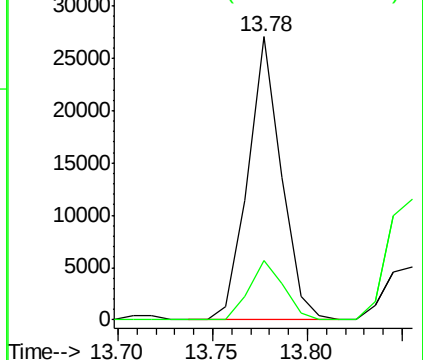
91 100

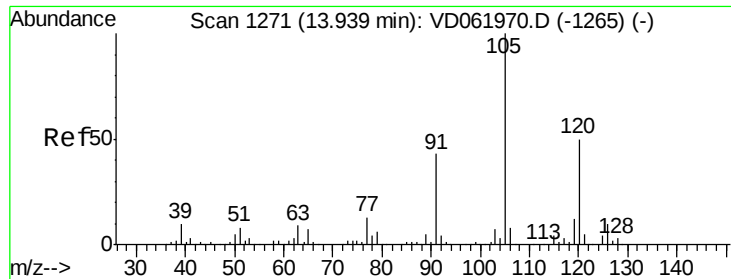
120 20.9 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): VDC

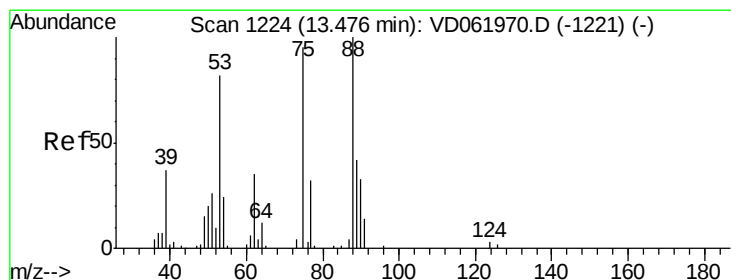
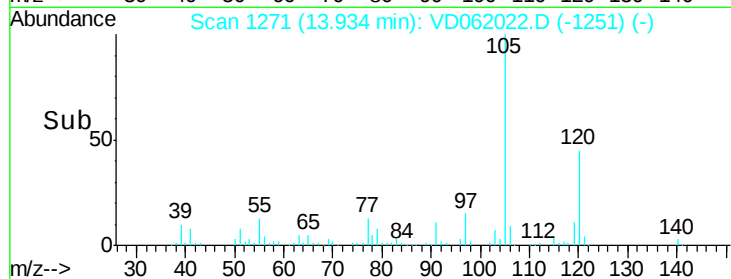
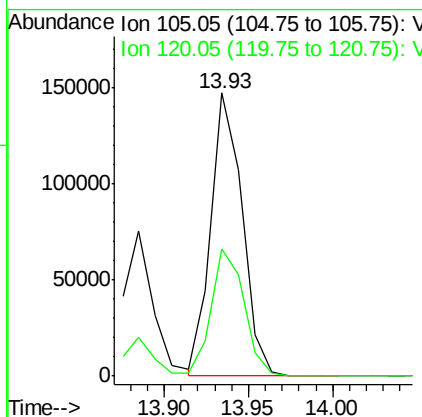
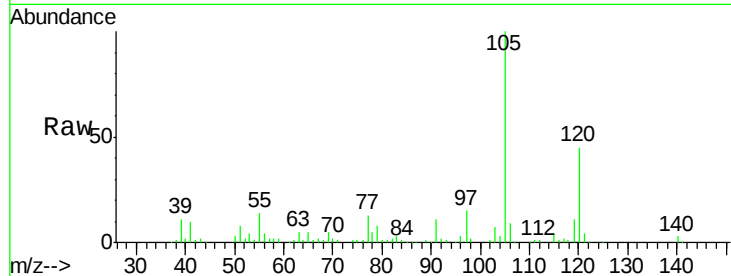




#80
 1,3,5-Trimethylbenzene
 Concen: 16.209 ug/l
 RT: 13.93 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VD062022.D
 Acq: 25 Apr 2019 5:52

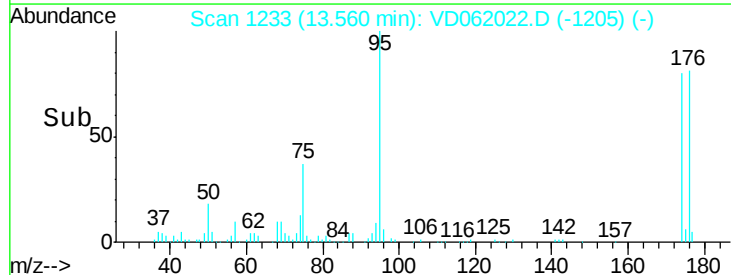
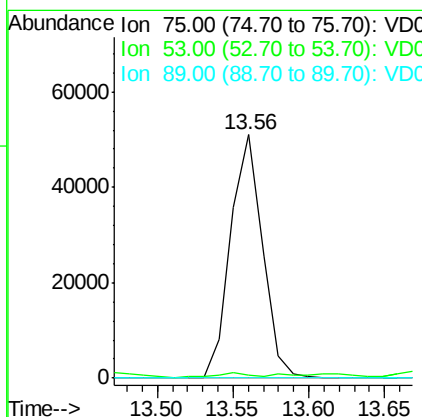
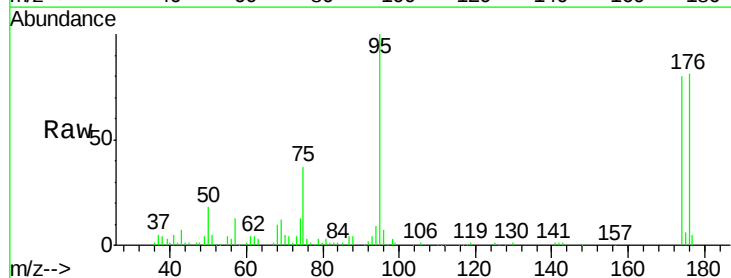
Instrument :
 MSVOA_D
 ClientSampleId :

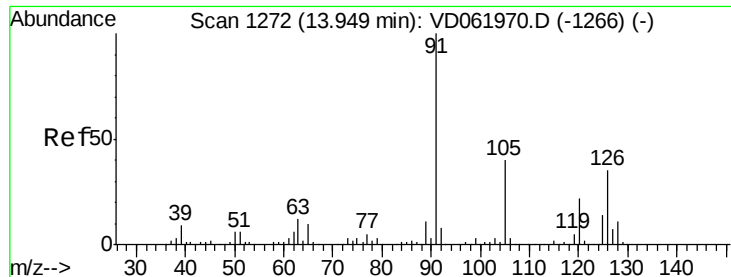
Tot Ion:105 Resp: 191134
 Ion Ratio Lower Upper
 105 100
 120 45.0 24.0 72.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 87.413 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.08 min
 Lab File: VD062022.D
 Acq: 25 Apr 2019 5:52

Tgt Ion: 75 Resp: 74572
 Ion Ratio Lower Upper
 75 100
 53 1.4 65.8 98.8#
 89 0.0 35.0 52.6#

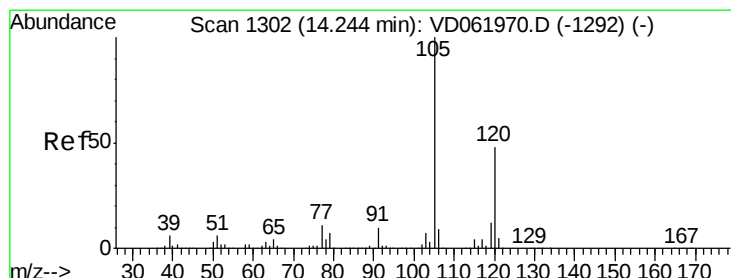
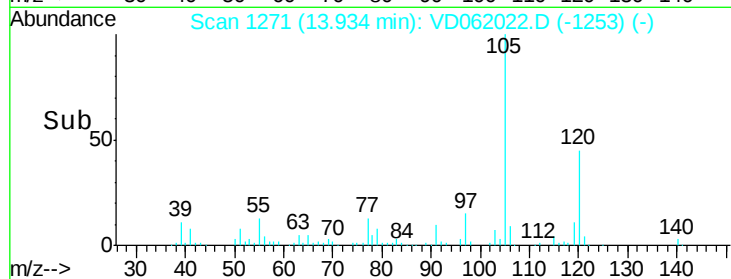
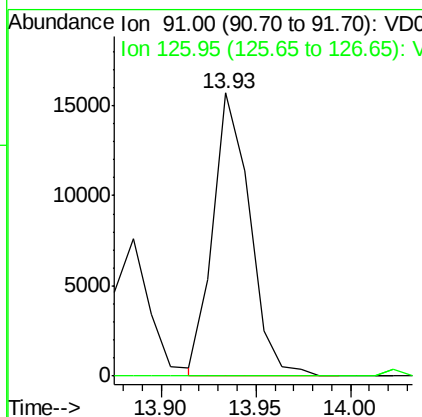
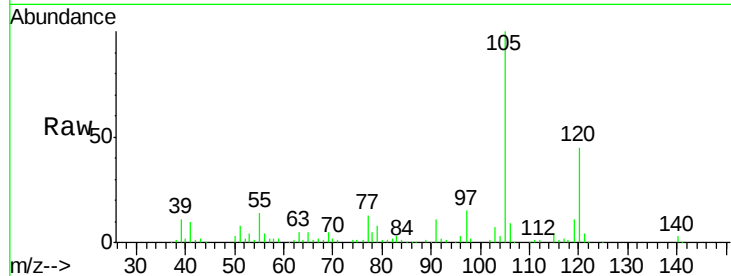




#82
4-Chlorotoluene
Concen: 1.870 ug/l
RT: 13.93 min Scan# 1271
Delta R.T. -0.02 min
Lab File: VD062022.D
Acq: 25 Apr 2019 5:52

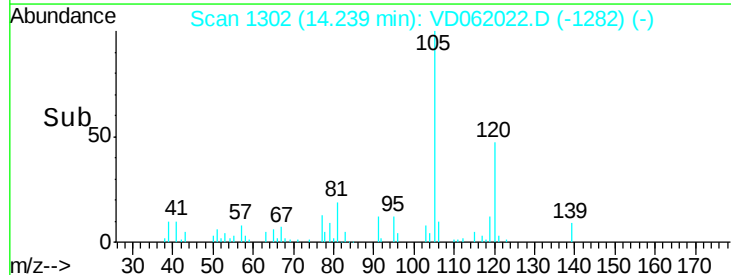
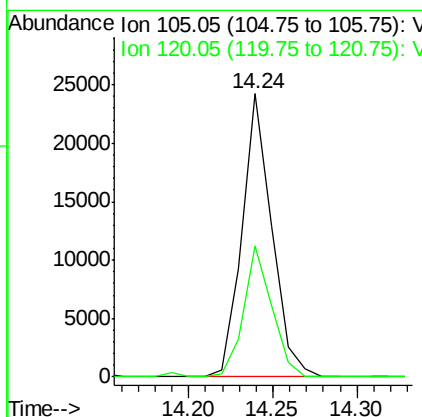
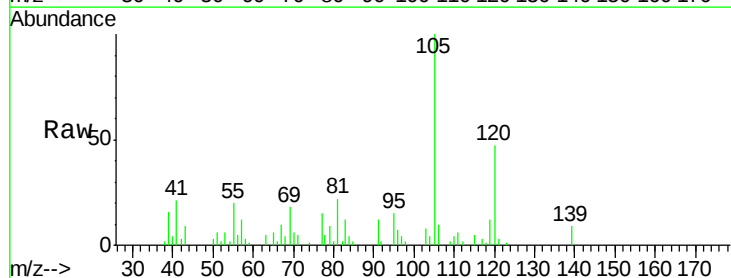
Instrument :
MSVOA_D
ClientSampleId :

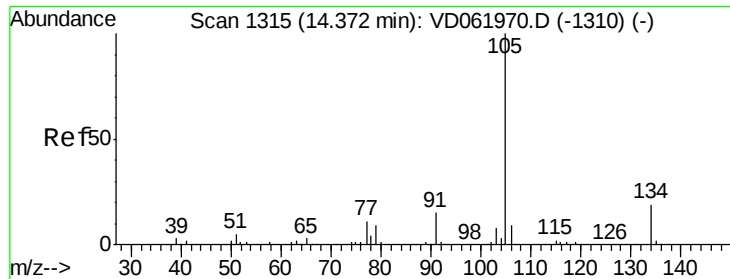
Tot Ion: 91 Resp: 21122
Ion Ratio Lower Upper
91 100
126 0.0 19.1 57.5#



#84
1,2,4-Trimethylbenzene
Concen: 2.634 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VD062022.D
Acq: 25 Apr 2019 5:52

Tgt Ion:105 Resp: 29656
Ion Ratio Lower Upper
105 100
120 46.5 23.1 69.2





#85

sec-Butylbenzene

Concen: 1.835 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VD062022.D

Acq: 25 Apr 2019 5:52

Instrument :

MSVOA_D

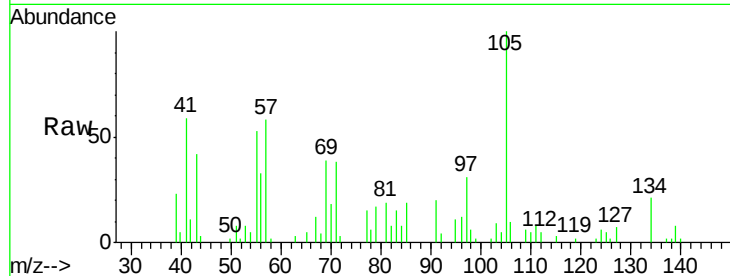
ClientSampleId :

Tot Ion:105 Resp: 27085

Ion Ratio Lower Upper

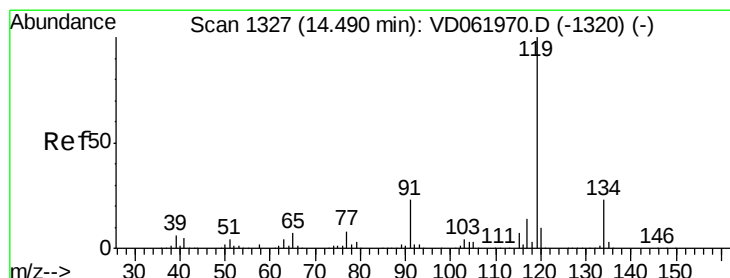
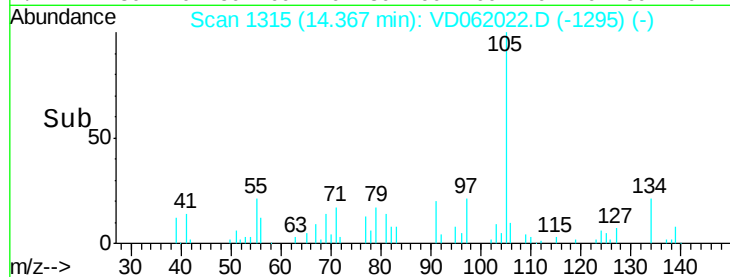
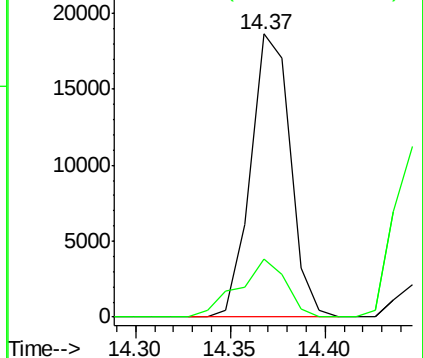
105 100

134 20.6 8.9 26.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 2.686 ug/l

RT: 14.50 min Scan# 1328

Delta R.T. 0.00 min

Lab File: VD062022.D

Acq: 25 Apr 2019 5:52

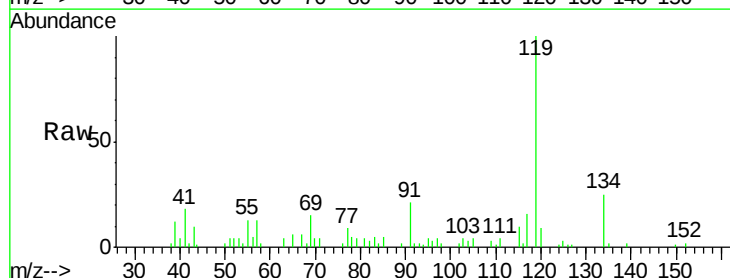
Tgt Ion:119 Resp: 35481

Ion Ratio Lower Upper

119 100

134 25.2 12.8 38.3

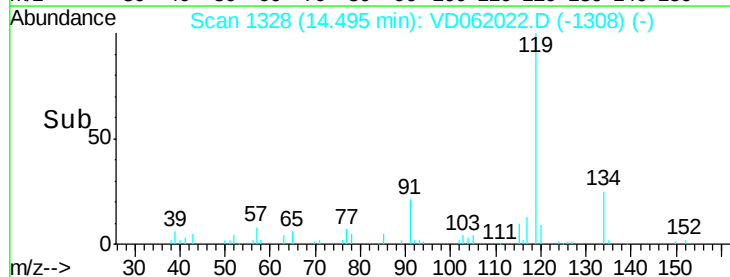
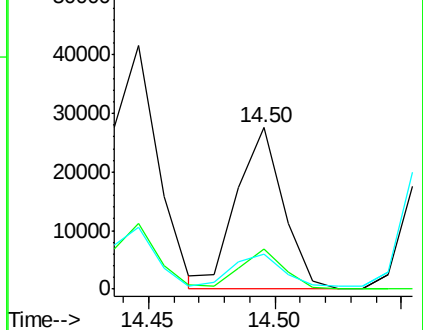
91 21.4 10.7 32.1

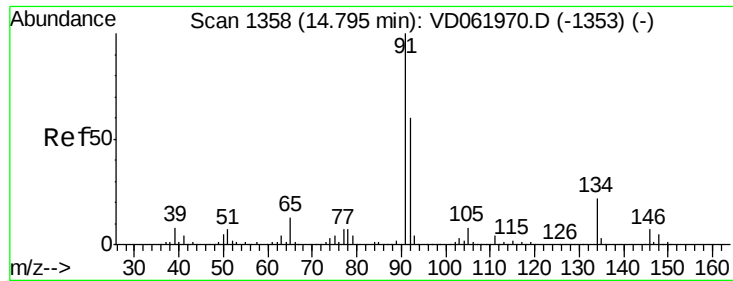


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

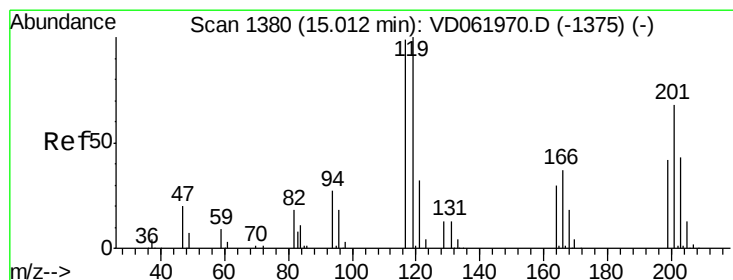
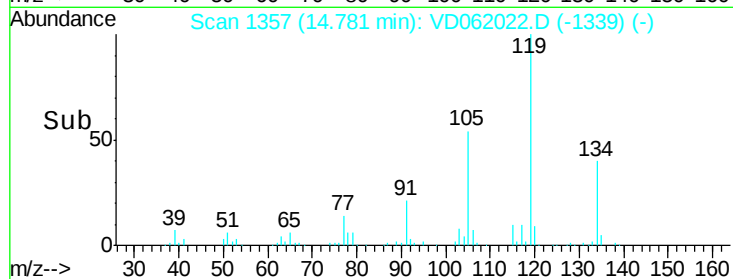
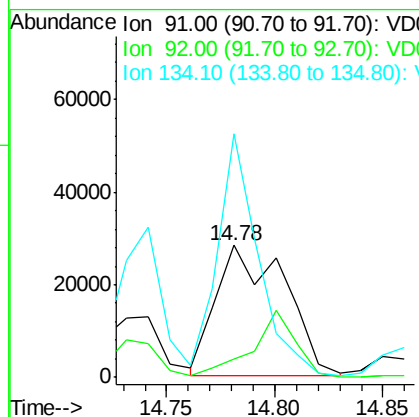
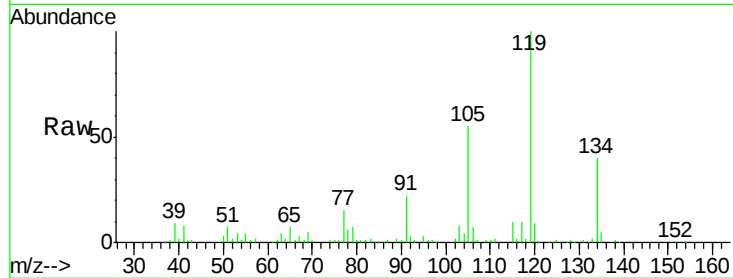




#89
n-Butylbenzene
Concen: 5.294 ug/l
RT: 14.78 min Scan# 1357
Delta R.T. -0.02 min
Lab File: VD062022.D
Acq: 25 Apr 2019 5:52

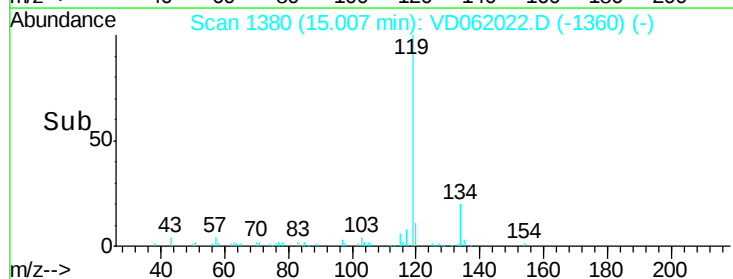
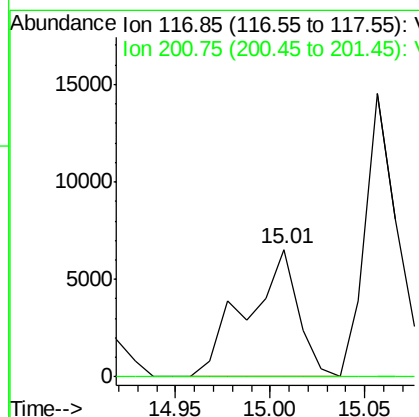
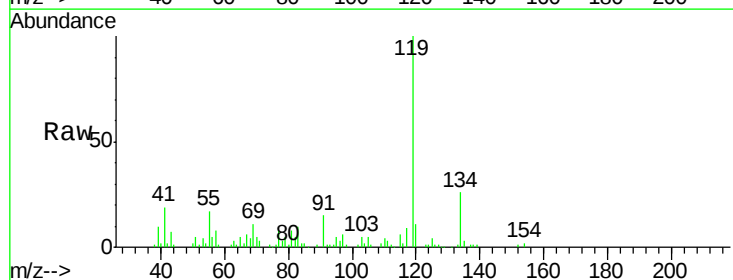
Instrument :
MSVOA_D
ClientSampled :

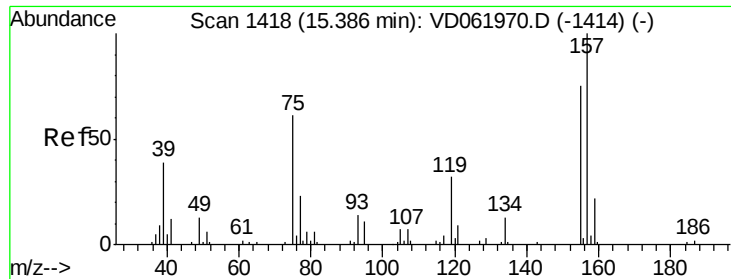
Tot Ion: 91 Resp: 62778
Ion Ratio Lower Upper
91 100
92 13.5 30.3 91.0#
134 184.8 14.5 43.6#



#90
Hexachloroethane
Concen: 3.467 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. 0.00 min
Lab File: VD062022.D
Acq: 25 Apr 2019 5:52

Tgt Ion: 117 Resp: 12384
Ion Ratio Lower Upper
117 100
201 0.0 30.2 90.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 4.775 ug/l

RT: 15.38 min Scan# 1418

Delta R.T. 0.00 min

Lab File: VD062022.D

Acq: 25 Apr 2019 5:52

Instrument :

MSVOA_D

ClientSampleId :

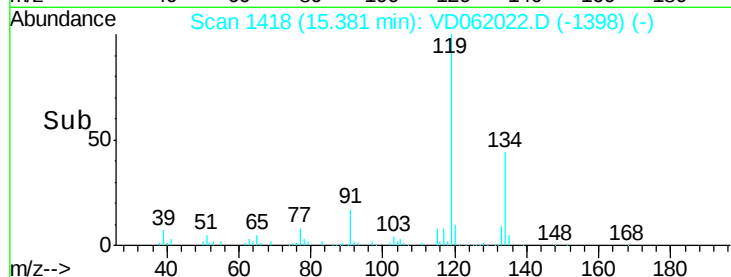
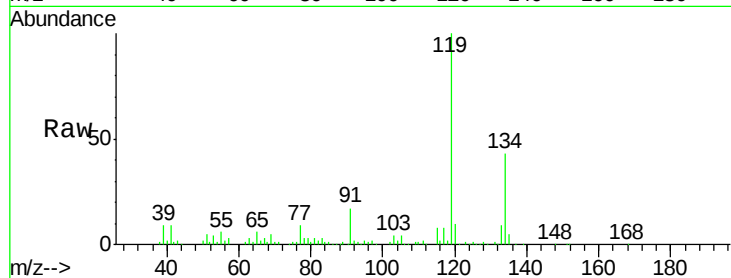
Tot Ion: 75 Resp: 966

Ion Ratio Lower Upper

75 100

155 0.0 55.3 165.8#

157 0.0 67.8 203.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

