

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042419\
 Data File : VD061997.D
 Acq On : 24 Apr 2019 14:54
 Operator : VA/AP
 Sample : K2518-05
 Misc : 5.01µl/5ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

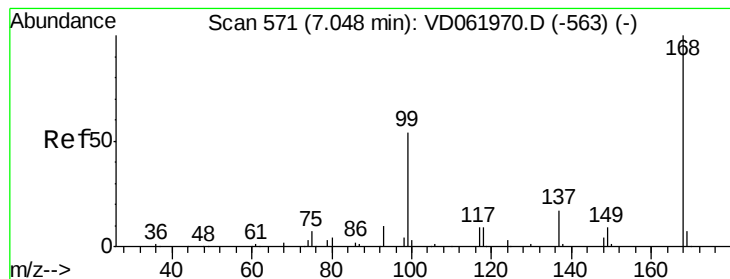
Quant Time: Apr 25 09:10:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 14:52:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	21821	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	49206	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	38890	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	14576	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	24012	140.60	ug/l	0.00
Spiked Amount			Recovery	=	281.20%	
35) Dibromofluoromethane	6.94	113	15285	44.92	ug/l	0.00
Spiked Amount			Recovery	=	89.84%	
50) Toluene-d8	10.42	98	28005	34.58	ug/l	0.00
Spiked Amount			Recovery	=	69.16%	
62) 4-Bromofluorobenzene	13.56	95	15396	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	207	3.993	ug/l #	12
10) Methyl Iodide	3.34	142	230	6.072	ug/l #	37
16) Acetone	3.24	43	12915	316.715	ug/l #	81
18) Methyl Acetate	3.65	43	698	7.605	ug/l #	53
20) Methylene Chloride	3.84	84	2411	9.566	ug/l	93
25) 2-Butanone	6.08	43	1950	39.442	ug/l #	56
36) 1,1-Dichloropropene	7.07	75	1271	3.315	ug/l #	40
37) Ethyl Acetate	6.08	43	1950	11.936	ug/l #	64
38) Carbon Tetrachloride	7.06	117	1573	3.238	ug/l #	12
51) 4-Methyl-2-Pentanone	10.31	43	4823	33.039	ug/l	98
52) Toluene	10.51	92	1966	3.249	ug/l #	74
81) trans-1,4-Dichloro-2-buten	13.56	75	5302	94.526	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.24	105	1388	1.875	ug/l	87
85) sec-Butylbenzene	14.24	105	1388	1.430	ug/l #	60
95) Naphthalene	16.12	128	799	2.276	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD061997.D

Acq: 24 Apr 2019 14:54

Instrument :

MSVOA_D

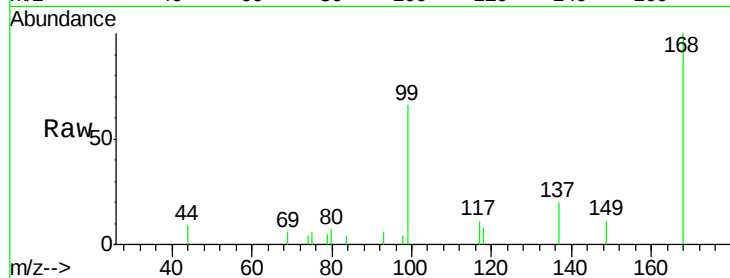
ClientSampleId :

Tot Ion:168 Resp: 21821

Ion Ratio Lower Upper

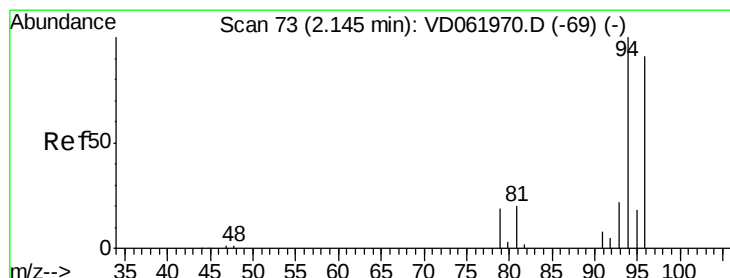
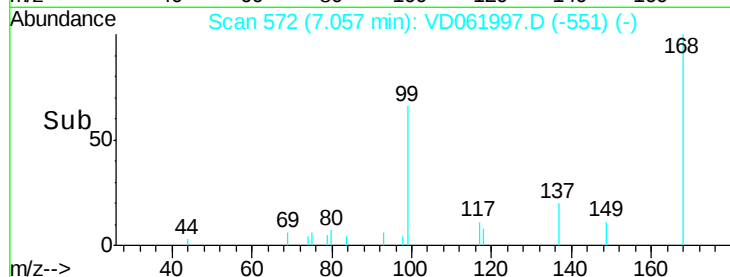
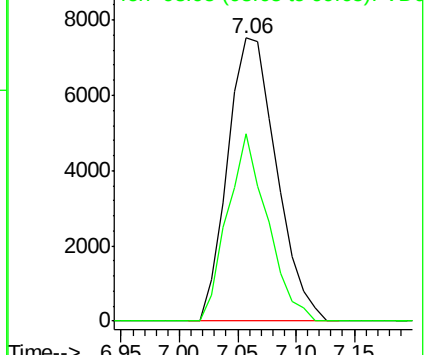
168 100

99 66.1 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: 3.993 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD061997.D

Acq: 24 Apr 2019 14:54

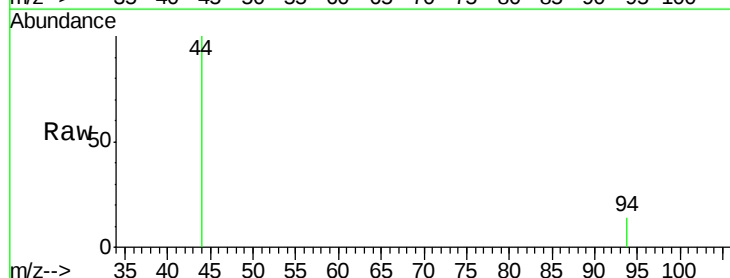
Tgt Ion: 94 Resp: 207

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

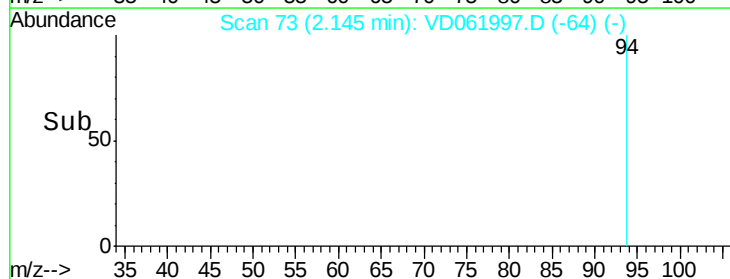
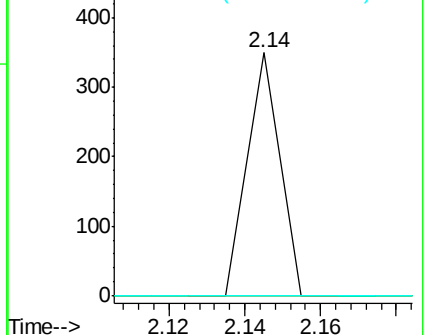
93 0.0 18.5 27.7#

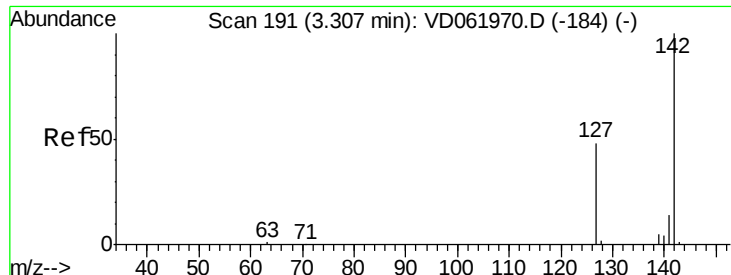


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

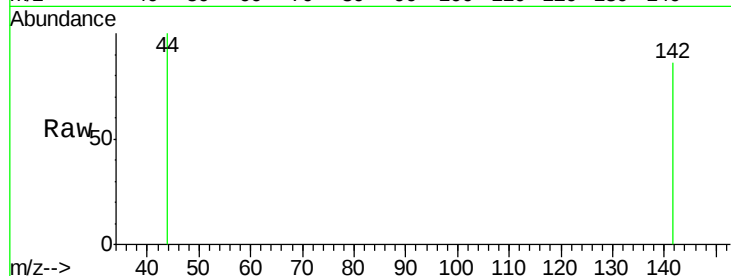




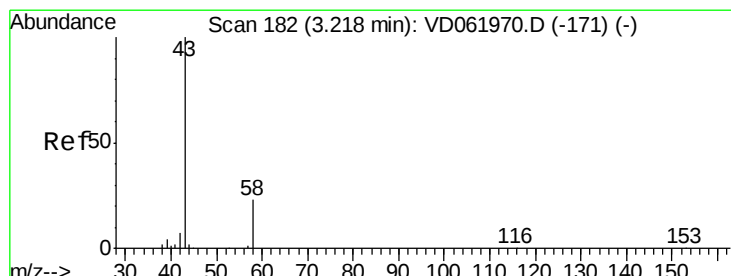
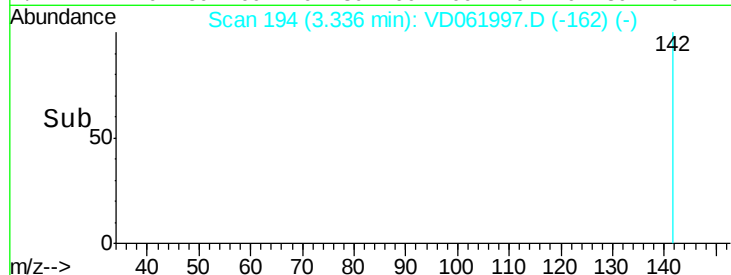
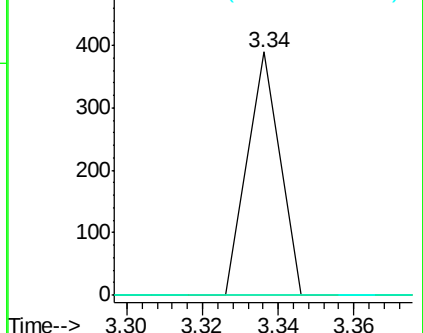
#10
Methvl Iodide
Concen: 6.072 ug/l
RT: 3.34 min Scan# 194
Delta R.T. 0.02 min
Lab File: VD061997.D
Acq: 24 Apr 2019 14:54

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:142 Resp: 230
Ion Ratio Lower Upper
142 100
127 0.0 38.8 58.2#
141 0.0 11.4 17.0#

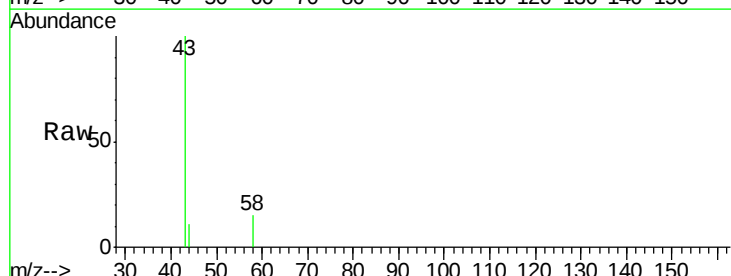


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

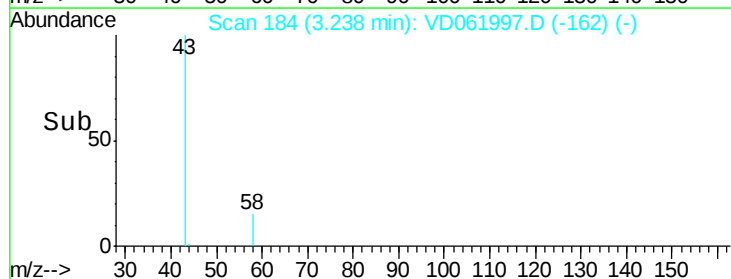
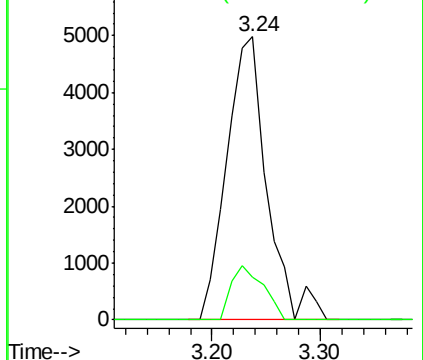


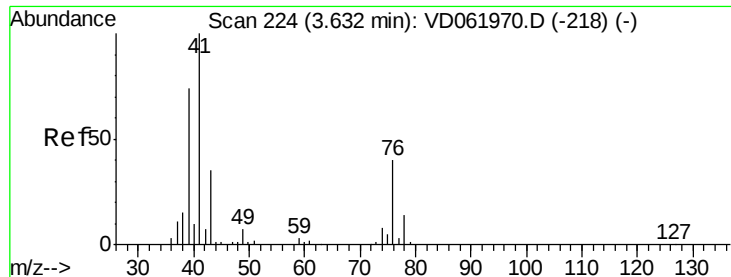
#16
Acetone
Concen: 316.715 ug/l
RT: 3.24 min Scan# 184
Delta R.T. 0.01 min
Lab File: VD061997.D
Acq: 24 Apr 2019 14:54

Tgt Ion: 43 Resp: 12915
Ion Ratio Lower Upper
43 100
58 15.3 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

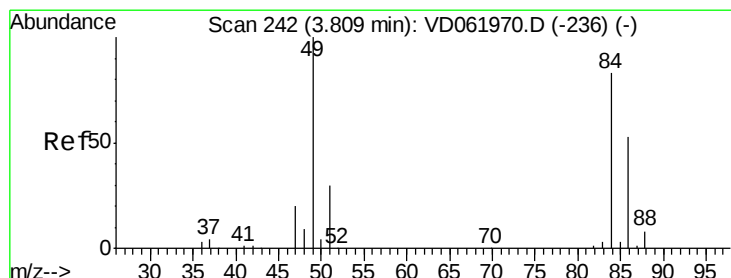
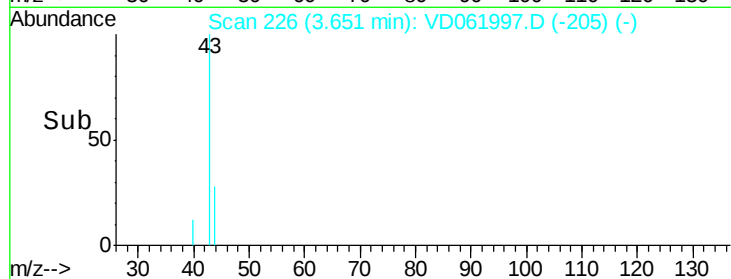
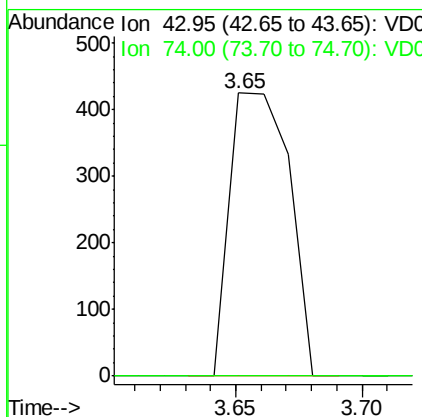
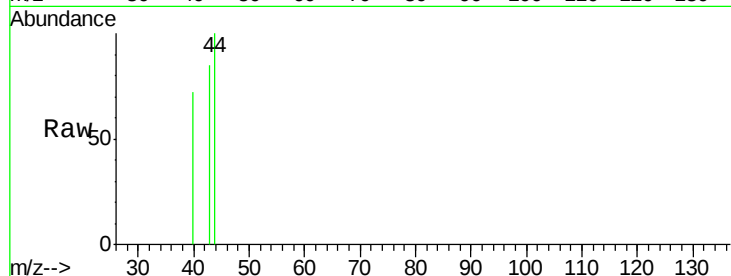




#18
Methyl Acetate
Concen: 7.605 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.01 min
Lab File: VD061997.D
Acq: 24 Apr 2019 14:54

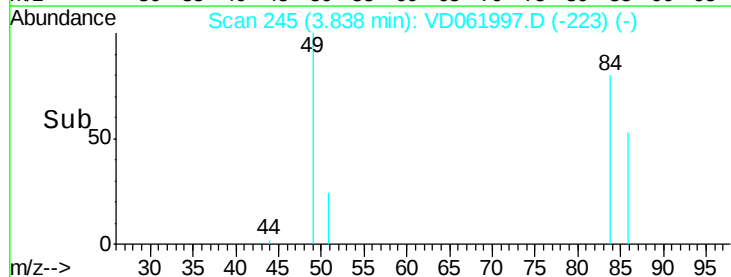
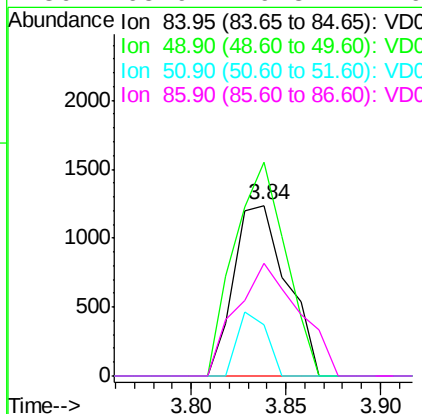
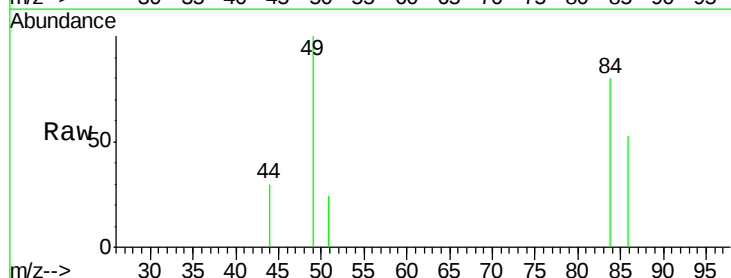
Instrument :
MSVOA_D
ClientSampled :

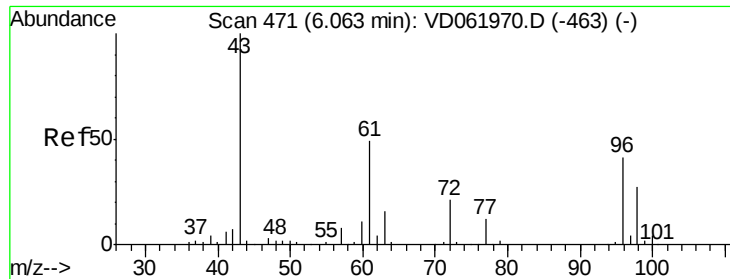
Tot Ion: 43 Resp: 698
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#20
Methylene Chloride
Concen: 9.566 ug/l
RT: 3.84 min Scan# 245
Delta R.T. 0.02 min
Lab File: VD061997.D
Acq: 24 Apr 2019 14:54

Tgt Ion: 84 Resp: 2411
Ion Ratio Lower Upper
84 100
49 125.1 94.0 141.0
51 30.3 29.0 43.4
86 65.9 49.8 74.6

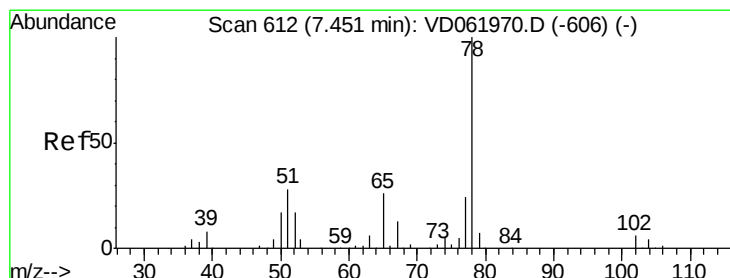
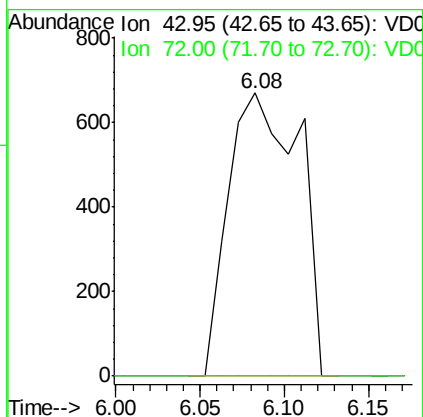
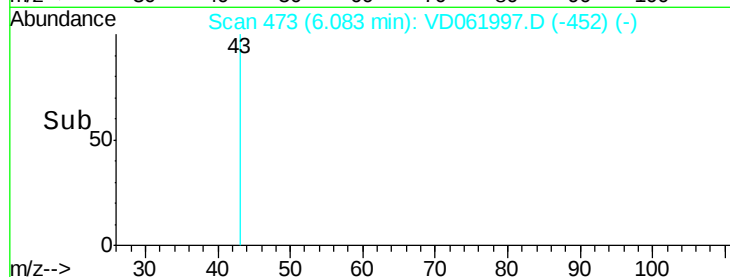
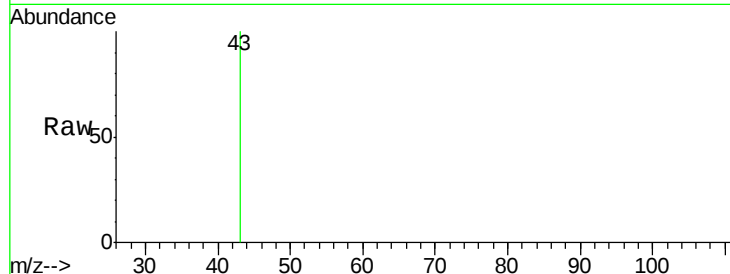




#25
2-Butanone
Concen: 39.442 ug/l
RT: 6.08 min Scan# 473
Delta R.T. 0.01 min
Lab File: VD061997.D
Acq: 24 Apr 2019 14:54

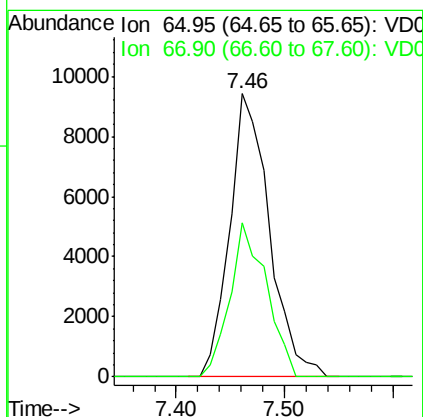
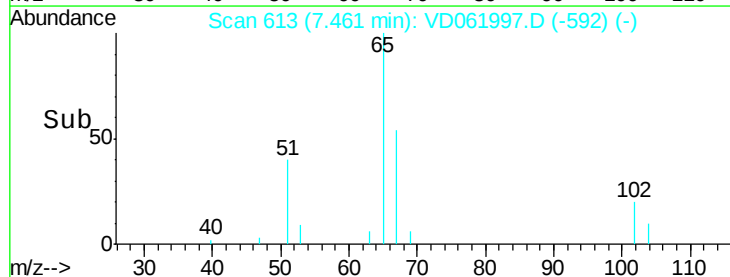
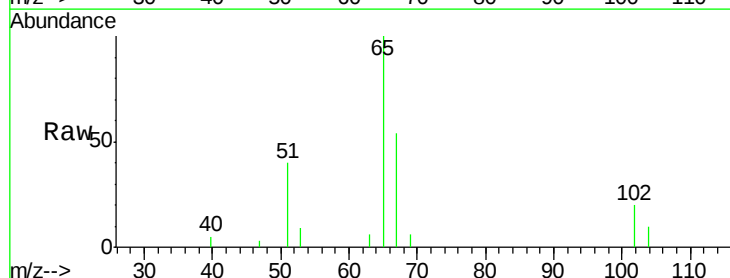
Instrument :
MSVOA_D
ClientSampleId :

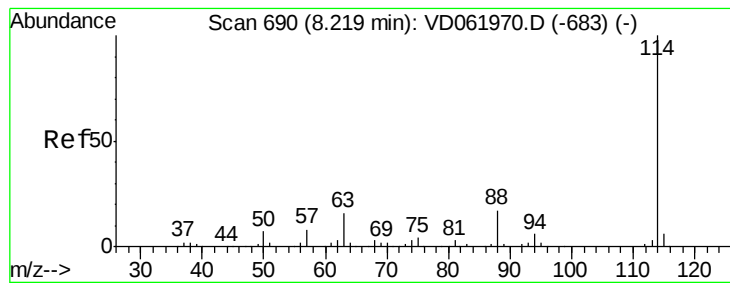
Tot Ion: 43 Resp: 1950
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.4#



#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 7.46 min Scan# 613
Delta R.T. 0.01 min
Lab File: VD061997.D
Acq: 24 Apr 2019 14:54

Tgt Ion: 65 Resp: 24012
Ion Ratio Lower Upper
65 100
67 54.3 0.0 98.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.01 min

Lab File: VD061997.D

Acq: 24 Apr 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

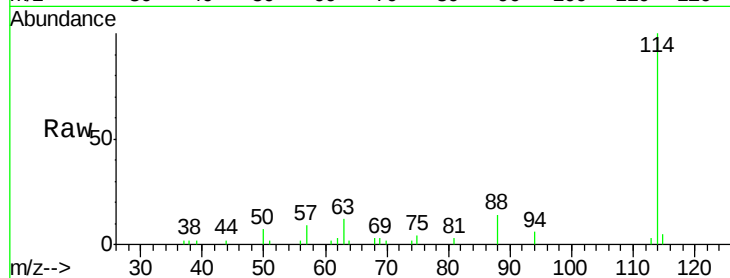
Tot Ion:114 Resp: 49206

Ion Ratio Lower Upper

114 100

63 12.4 0.0 32.4

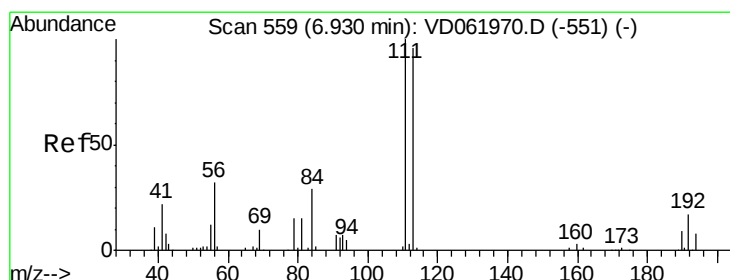
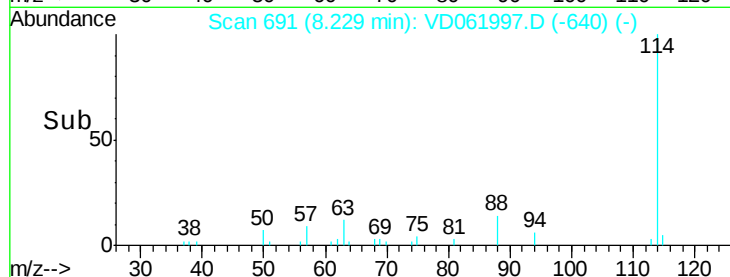
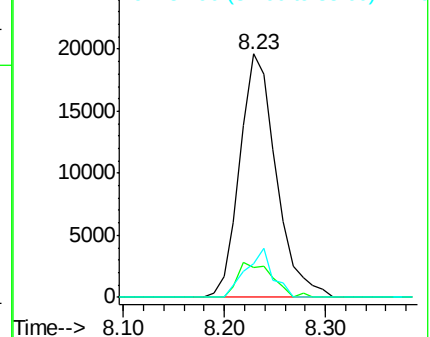
88 13.8 0.0 33.6



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: 6.94 min Scan# 560

Delta R.T. 0.01 min

Lab File: VD061997.D

Acq: 24 Apr 2019 14:54

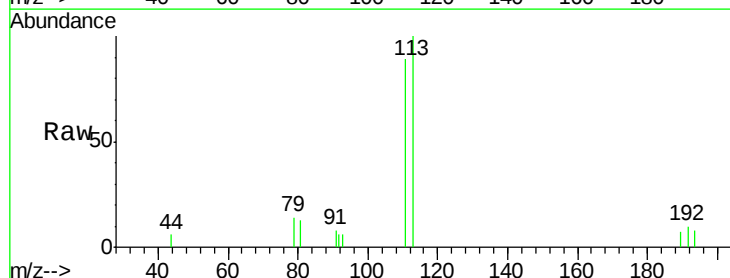
Tgt Ion:113 Resp: 15285

Ion Ratio Lower Upper

113 100

111 89.4 78.5 117.7

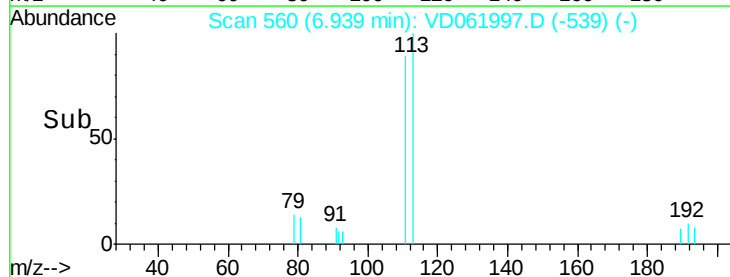
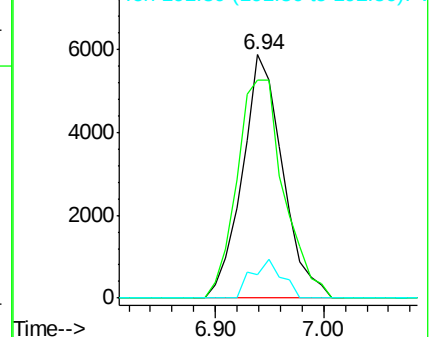
192 9.7 13.0 19.4#

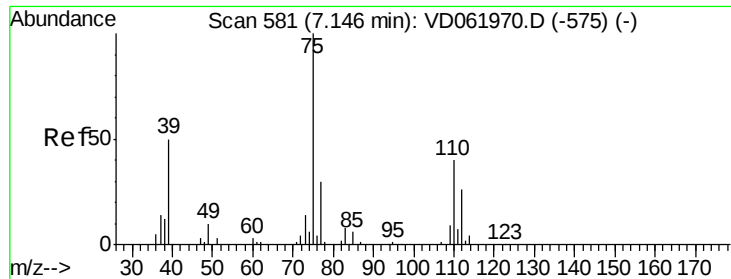


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

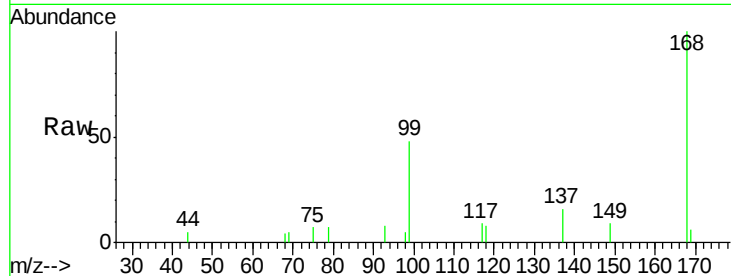




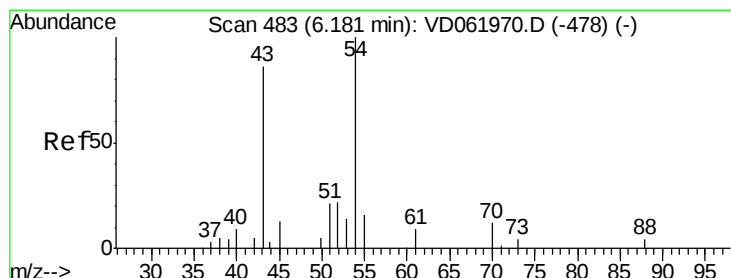
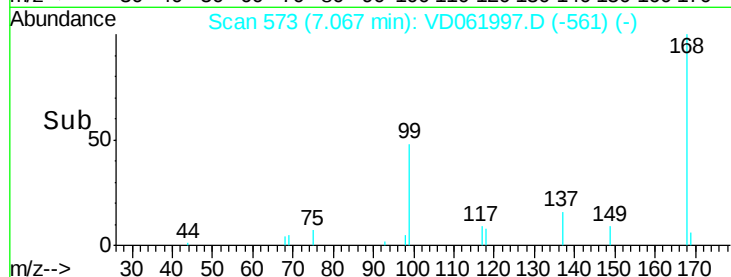
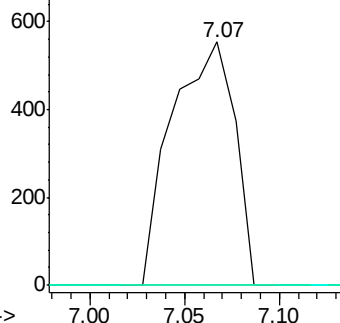
#36
 1,1-Dichloropropene
 Concen: 3.315 ug/l
 RT: 7.07 min Scan# 573
 Delta R.T. -0.08 min
 Lab File: VD061997.D
 Acq: 24 Apr 2019 14:54

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	19.1	57.1#
77	0.0	25.6	38.4#

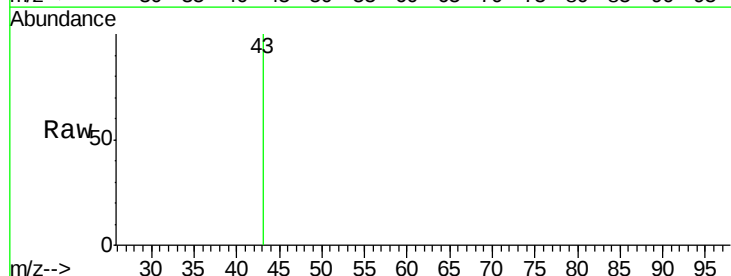


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.95 (76.65 to 77.65): VDC

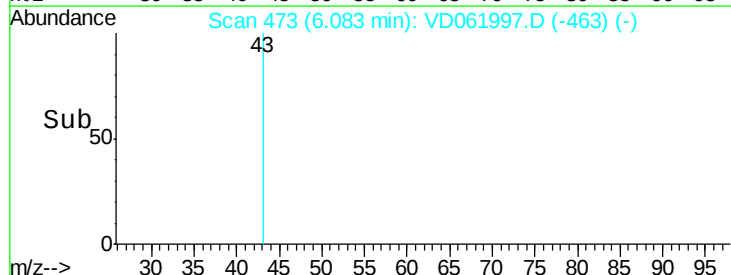
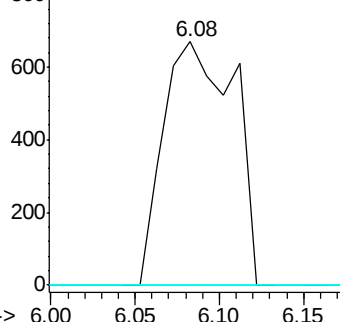


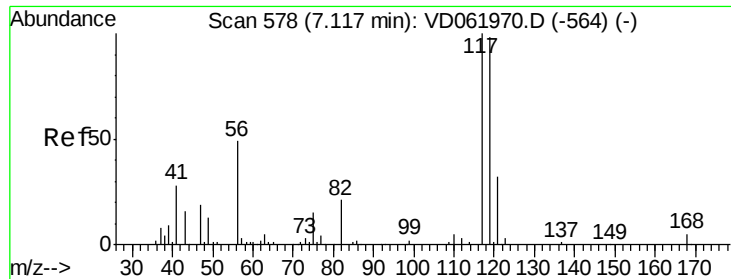
#37
 Ethyl Acetate
 Concen: 11.936 ug/l
 RT: 6.08 min Scan# 473
 Delta R.T. -0.10 min
 Lab File: VD061997.D
 Acq: 24 Apr 2019 14:54

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	14.7	22.1#
70	0.0	7.8	11.6#



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

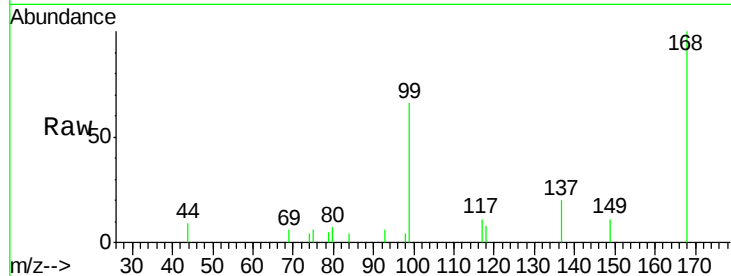




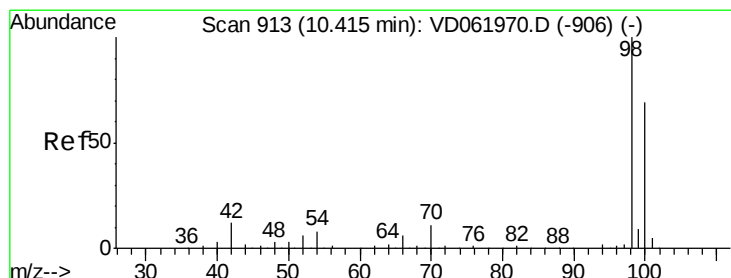
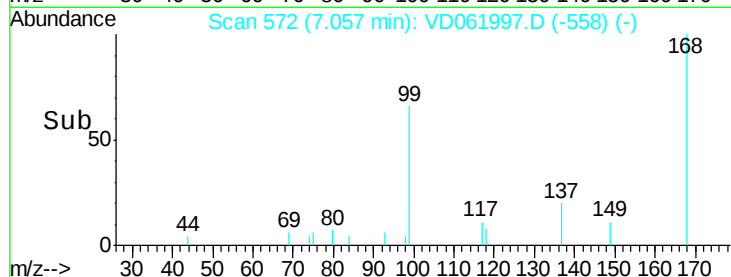
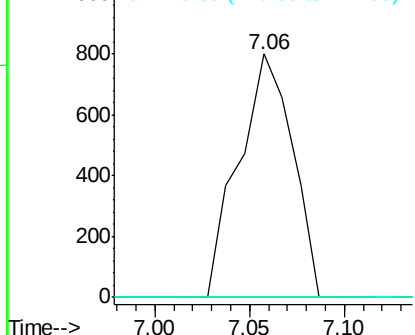
#38
Carbon Tetrachloride
Concen: 3.238 ug/l
RT: 7.06 min Scan# 572
Delta R.T. -0.06 min
Lab File: VD061997.D
Acq: 24 Apr 2019 14:54

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 1573
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.8#
121 0.0 25.9 38.9#

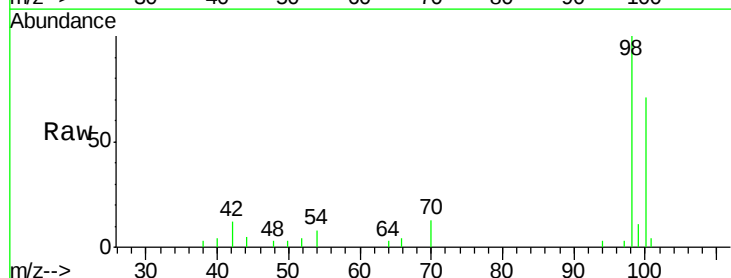


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

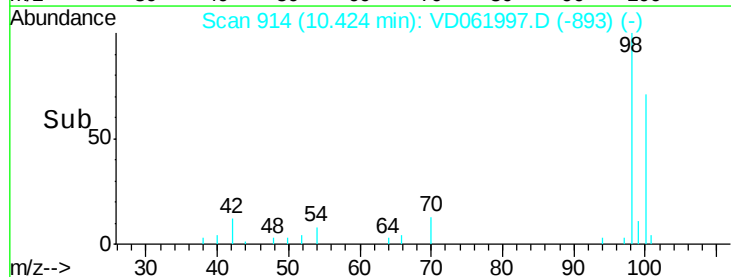
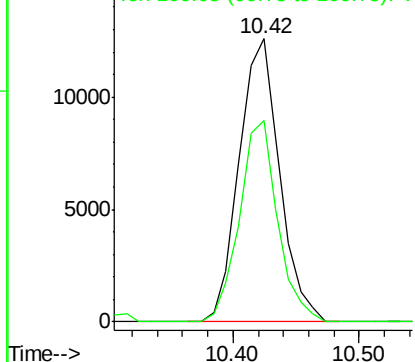


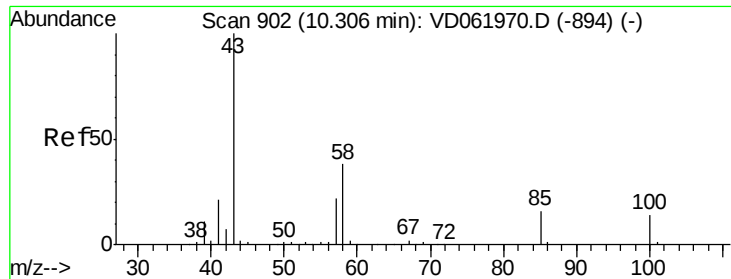
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.01 min
Lab File: VD061997.D
Acq: 24 Apr 2019 14:54

Tgt Ion: 98 Resp: 28005
Ion Ratio Lower Upper
98 100
100 71.3 53.8 80.8



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: 33.039 ug/l

RT: 10.31 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD061997.D

Acq: 24 Apr 2019 14:54

Instrument :

MSVOA_D

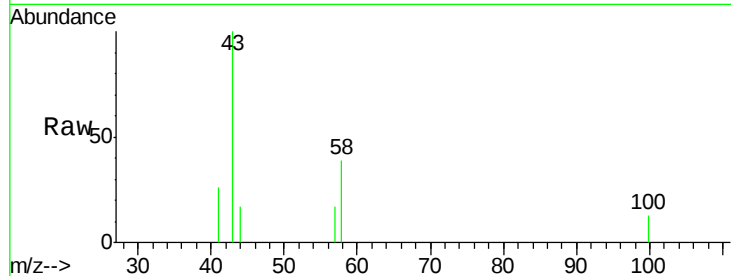
ClientSampled :

Tot Ion: 43 Resp: 4823

Ion Ratio Lower Upper

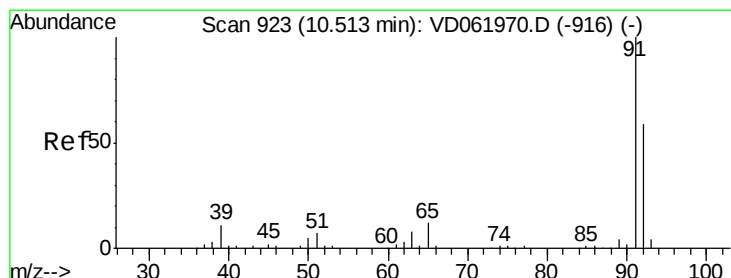
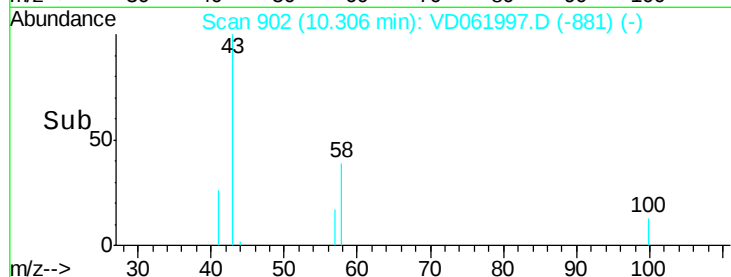
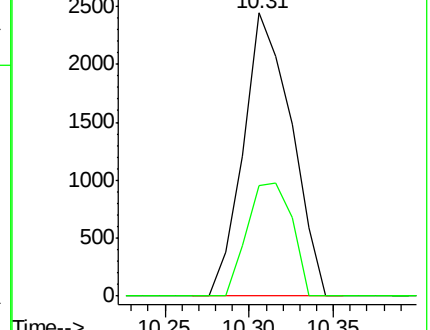
43 100

58 39.0 30.4 45.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 3.249 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.00 min

Lab File: VD061997.D

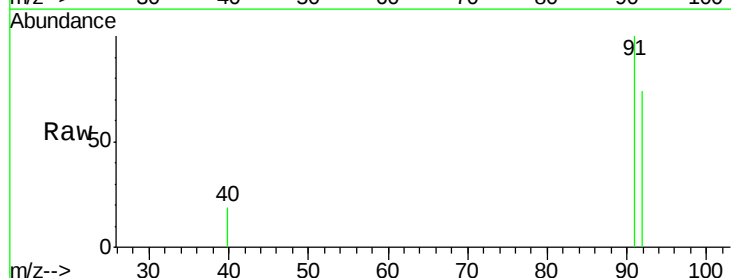
Acq: 24 Apr 2019 14:54

Tgt Ion: 92 Resp: 1966

Ion Ratio Lower Upper

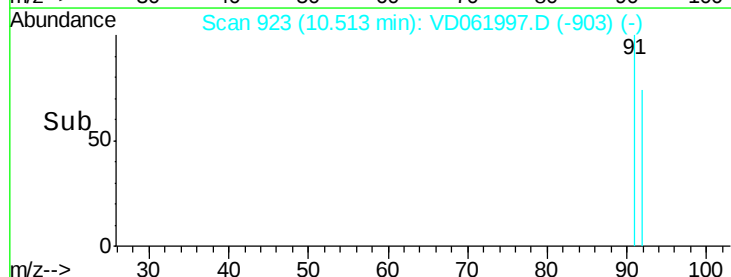
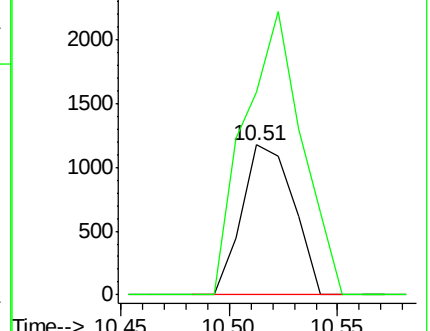
92 100

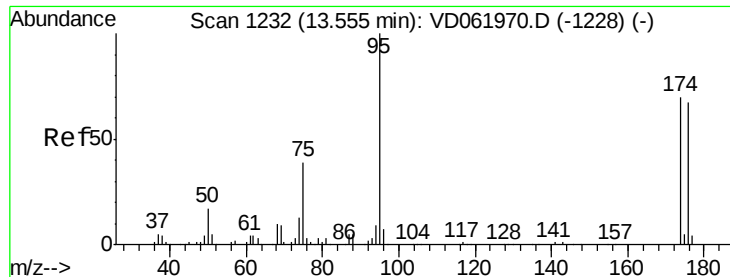
91 135.2 136.6 204.8#



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

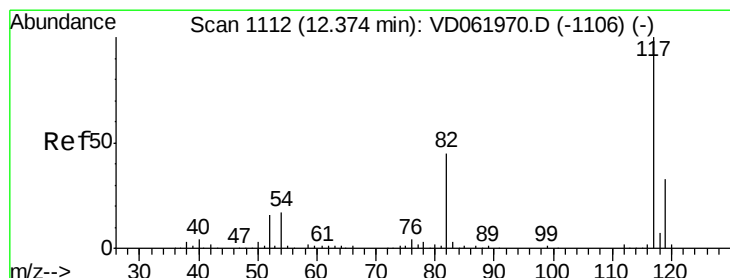
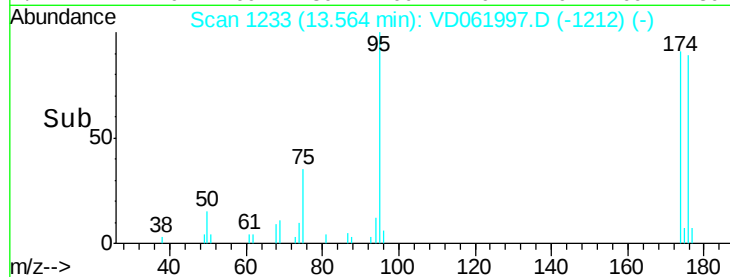
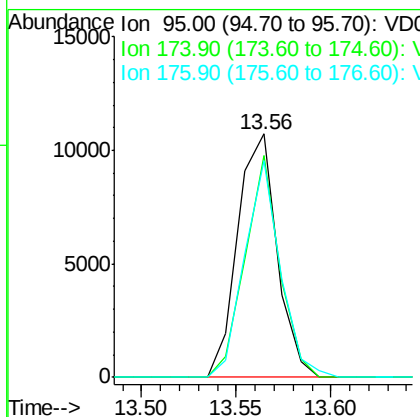
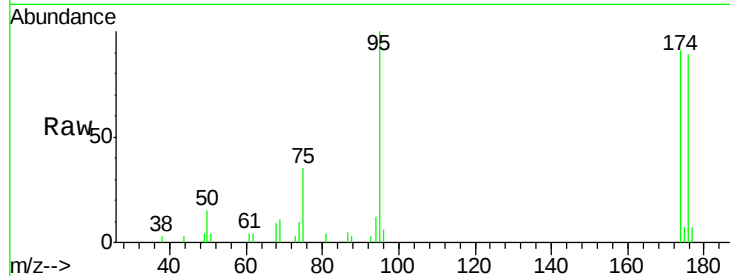




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD061997.D
Acq: 24 Apr 2019 14:54

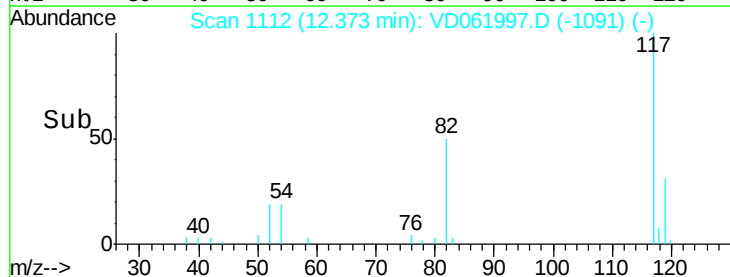
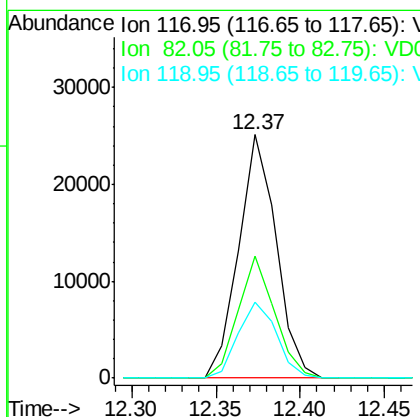
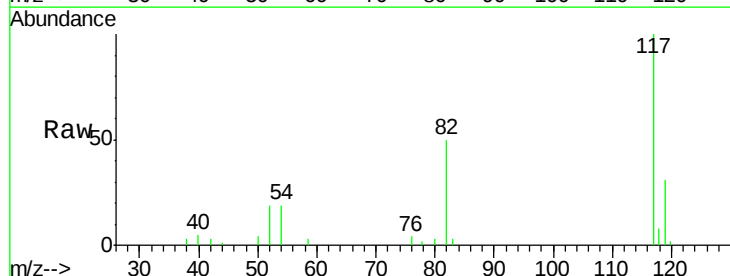
Instrument :
MSVOA_D
ClientSampleId :

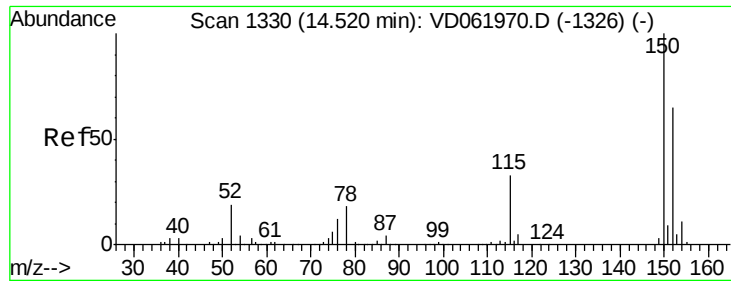
Tot Ion: 95 Resp: 15396
Ion Ratio Lower Upper
95 100
174 91.1 0.0 181.8
176 88.8 0.0 174.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD061997.D
Acq: 24 Apr 2019 14:54

Tgt Ion: 117 Resp: 38890
Ion Ratio Lower Upper
117 100
82 50.0 36.2 54.2
119 31.1 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD061997.D

Acq: 24 Apr 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

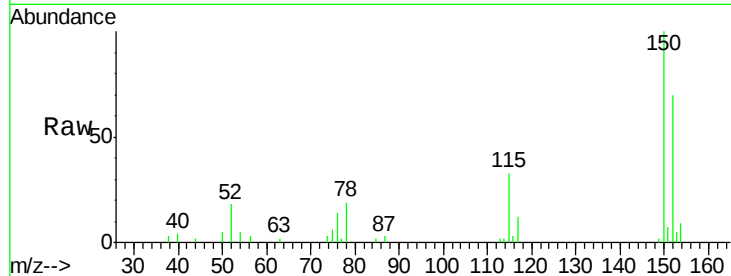
Tot Ion:152 Resp: 14576

Ion Ratio Lower Upper

152 100

115 48.0 30.9 92.7

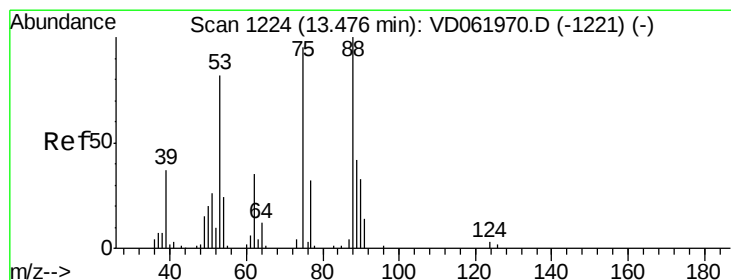
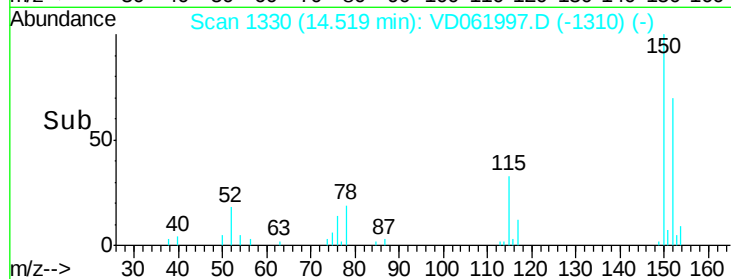
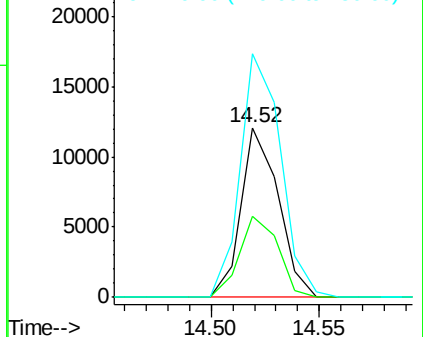
150 143.3 0.0 314.8



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: 94.526 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.08 min

Lab File: VD061997.D

Acq: 24 Apr 2019 14:54

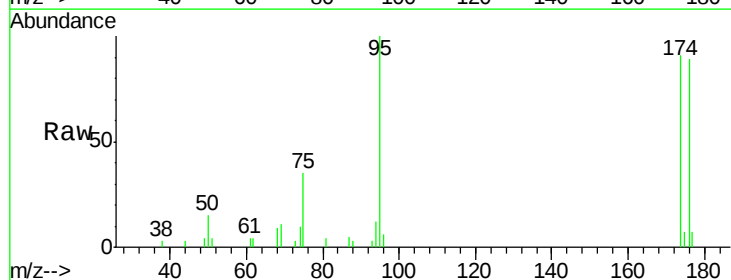
Tgt Ion: 75 Resp: 5302

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

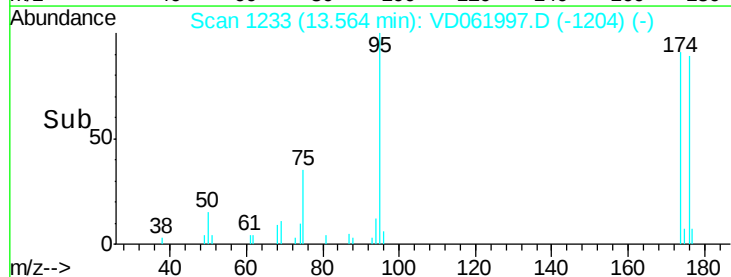
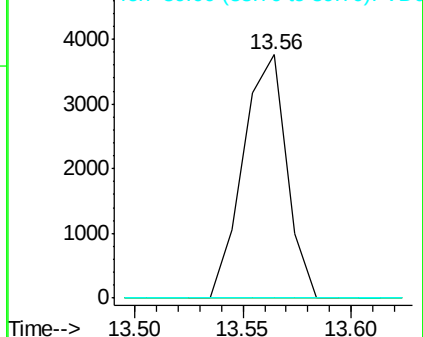
89 0.0 35.0 52.6#

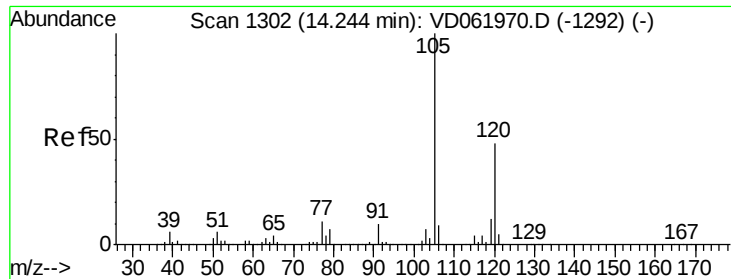


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#84

1,2,4-Trimethylbenzene

Concen: 1.875 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD061997.D

Acq: 24 Apr 2019 14:54

Instrument :

MSVOA_D

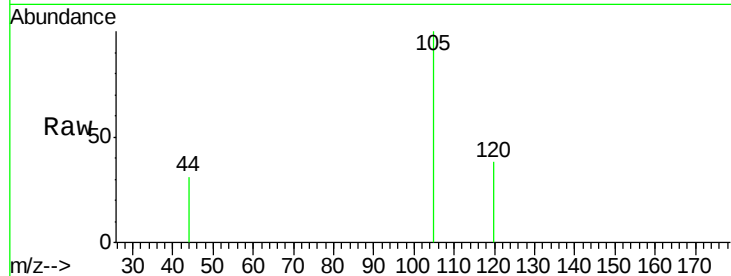
ClientSampleId :

Tot Ion:105 Resp: 1388

Ion Ratio Lower Upper

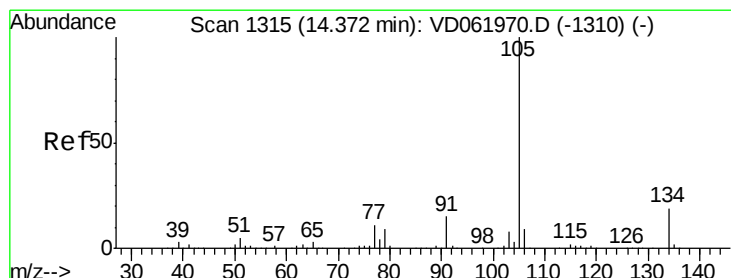
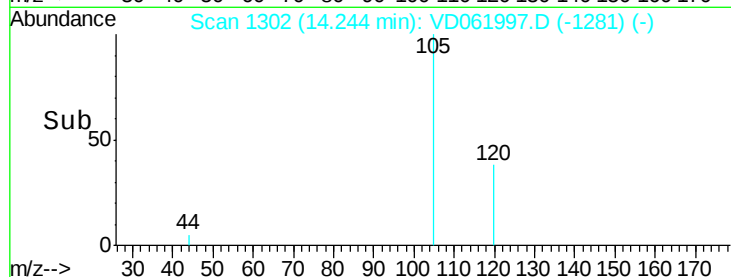
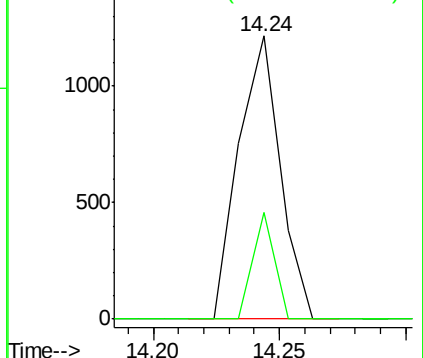
105 100

120 37.8 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#85

sec-Butylbenzene

Concen: 1.430 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. -0.12 min

Lab File: VD061997.D

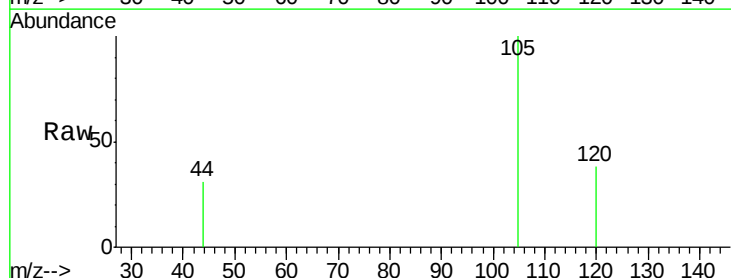
Acq: 24 Apr 2019 14:54

Tgt Ion:105 Resp: 1388

Ion Ratio Lower Upper

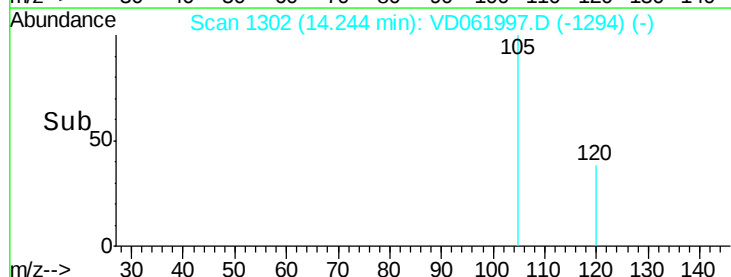
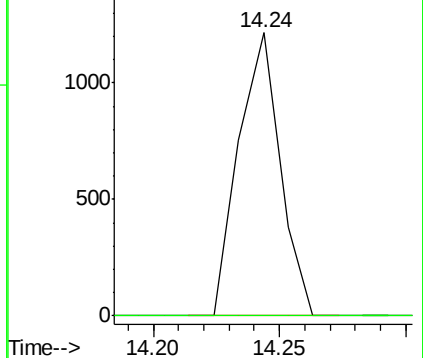
105 100

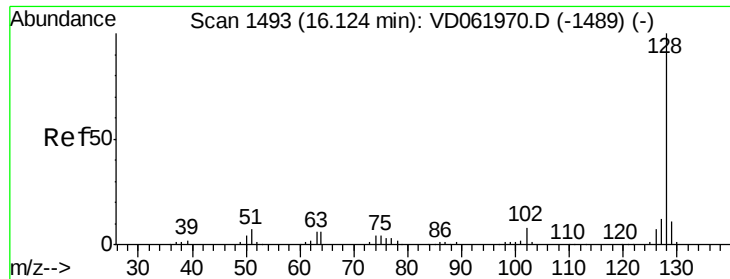
134 0.0 8.9 26.7#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V





#95

Naphthalene

Concen: 2.276 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.00 min

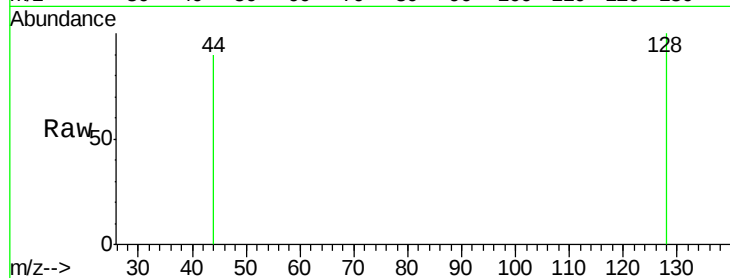
Lab File: VD061997.D

Acq: 24 Apr 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :



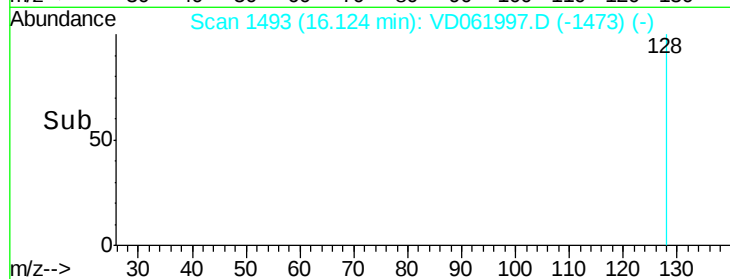
Tot Ion:128 Resp: 799

Ion Ratio Lower Upper

128 100

127 0.0 9.8 14.8#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

