

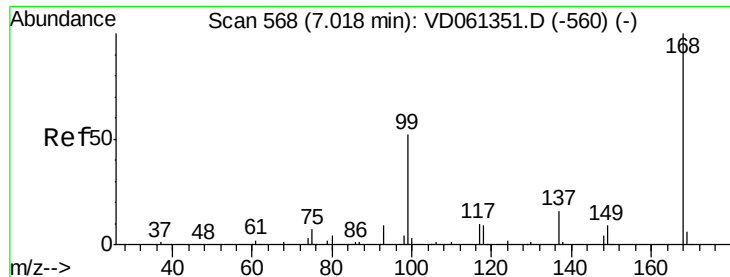
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040219\
 Data File : VD061518.D
 Acq On : 2 Apr 2019 17:02
 Operator : VA/AP
 Sample : K2183-02RE
 Misc : 4.56g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 03 01:53:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	498500	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	889398	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.36	117	715896	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	338479	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.44	65	205774	48.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.64%	
35) Dibromofluoromethane	6.92	113	1194	0.18	ug/l	0.02
Spiked Amount	50.000		Recovery	=	0.36%	
50) Toluene-d8	10.40	98	697264	42.77	ug/l	0.02
Spiked Amount	50.000		Recovery	=	85.54%	
62) 4-Bromofluorobenzene	13.55	95	294524	47.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.24%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	3.26	142	8244	4.276	ug/l #	83
11) Tert butyl alcohol	3.98	59	205171	773.650	ug/l #	80
16) Acetone	3.28	43	132128	120.699	ug/l	99
20) Methylene Chloride	3.79	84	54678	7.276	ug/l	97
25) 2-Butanone	6.10	43	17192	12.485	ug/l	95
28) Bromochloromethane	6.28	49	11825	3.156	ug/l #	1
29) Tetrahydrofuran	6.48	42	2902	4.348	ug/l #	79
31) Cyclohexane	7.02	56	7998	1.090	ug/l #	1
36) 1,1-Dichloropropene	7.02	75	37453	4.825	ug/l #	47
37) Ethyl Acetate	6.10	43	17192	5.179	ug/l #	65
38) Carbon Tetrachloride	7.02	117	47314	5.304	ug/l #	13
40) Benzene	7.44	78	36333	1.865	ug/l	92
43) Isopropyl Acetate	9.04	43	8862	1.835	ug/l #	1
45) 1,2-Dichloropropane	8.96	63	27043	5.474	ug/l #	43
48) Methyl methacrylate	8.96	41	174964	65.634	ug/l #	48
51) 4-Methyl-2-Pentanone	10.30	43	21640	7.364	ug/l	100
52) Toluene	10.49	92	40913	3.442	ug/l	92
59) 2-Hexanone	11.54	43	5946	2.793	ug/l	75
74) N-amyl acetate	13.20	43	28564	4.353	ug/l #	49
76) 1,2,3-Trichloropropane	13.55	75	76659	15.679	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.55	75	110937	74.415	ug/l #	18

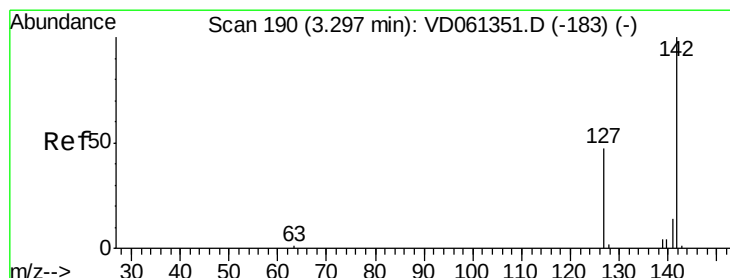
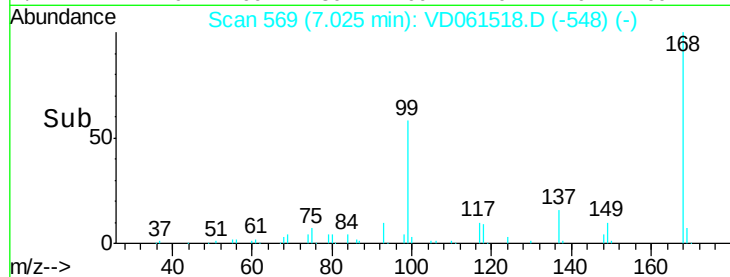
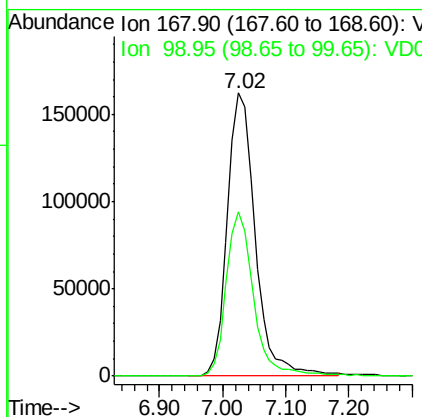
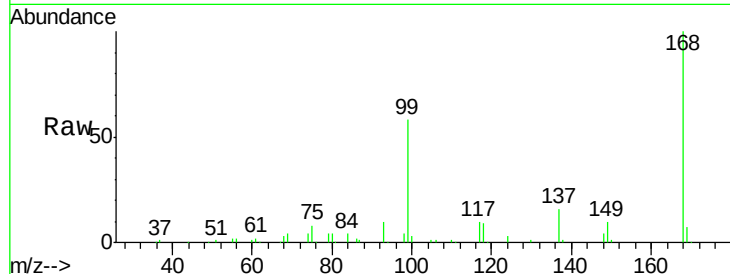
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.02 min Scan# 569
Delta R.T. 0.01 min
Lab File: VD061518.D
Acq: 2 Apr 2019 17:02

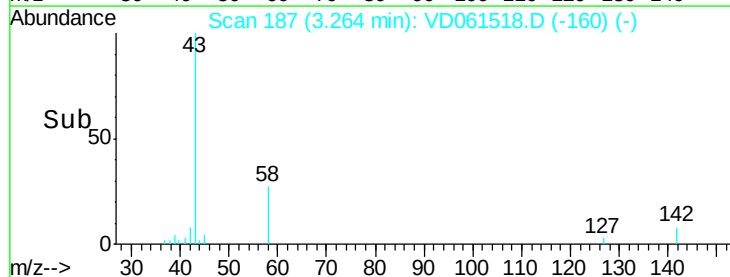
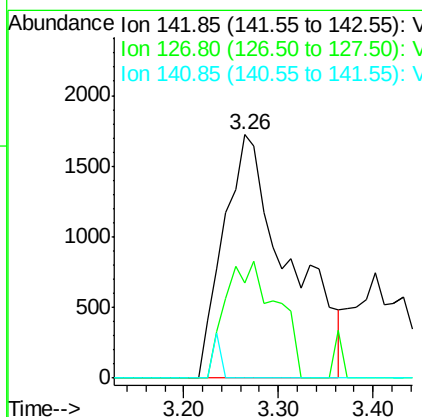
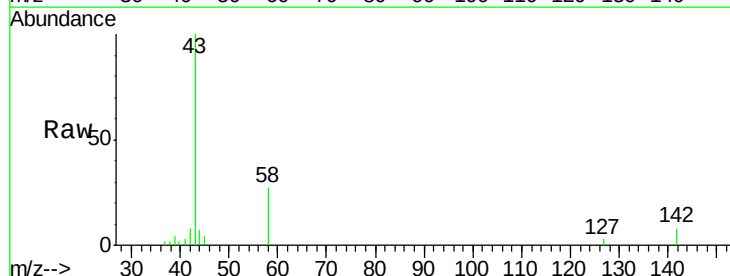
Instrument :
MSVOA_D
ClientSampleId :

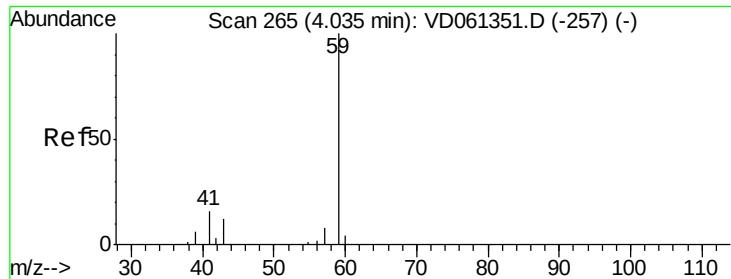
Tot Ion:168 Resp: 498500
Ion Ratio Lower Upper
168 100
99 58.3 43.1 64.7



#10
Methyl Iodide
Concen: 4.276 ug/l
RT: 3.26 min Scan# 187
Delta R.T. -0.03 min
Lab File: VD061518.D
Acq: 2 Apr 2019 17:02

Tgt Ion:142 Resp: 8244
Ion Ratio Lower Upper
142 100
127 39.0 37.7 56.5
141 0.0 11.5 17.3#

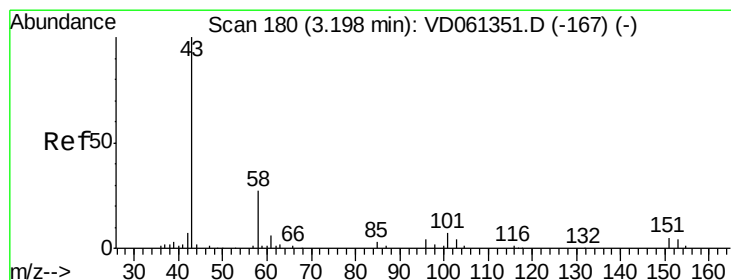
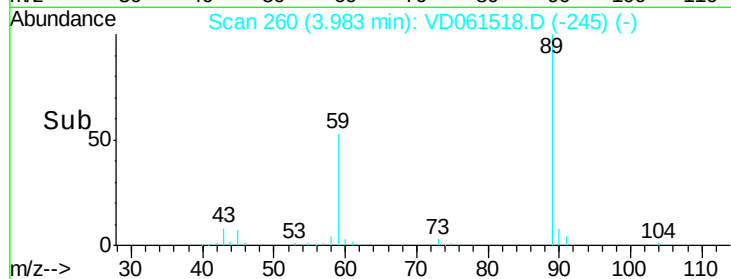
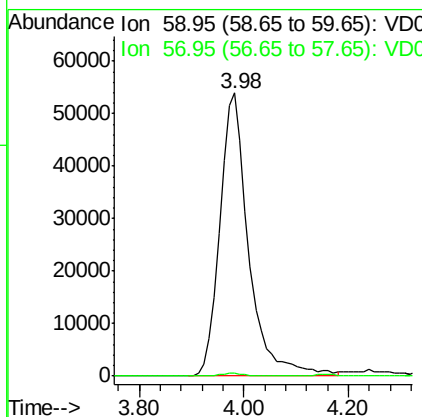
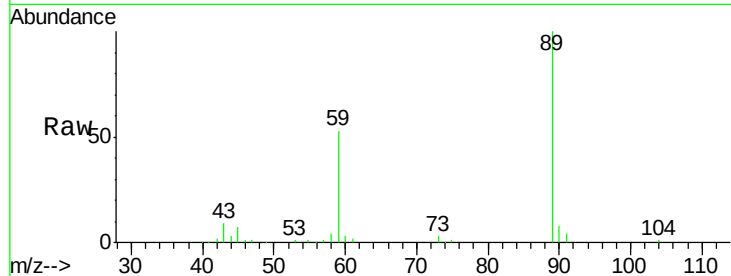




#11
Tert butyl alcohol
Concen: 773.650 ug/l
RT: 3.98 min Scan# 260
Delta R.T. -0.05 min
Lab File: VD061518.D
Acq: 2 Apr 2019 17:02

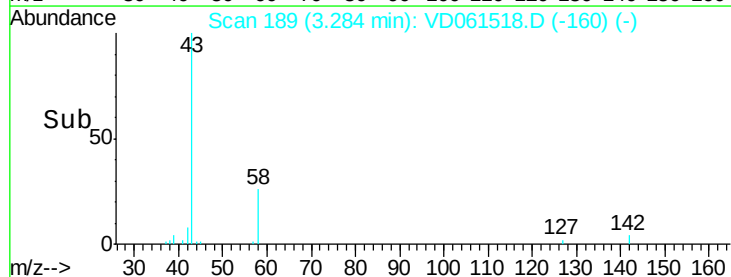
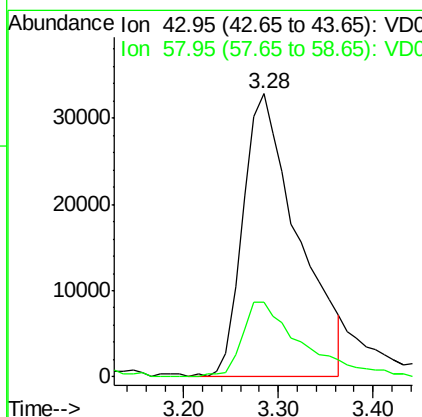
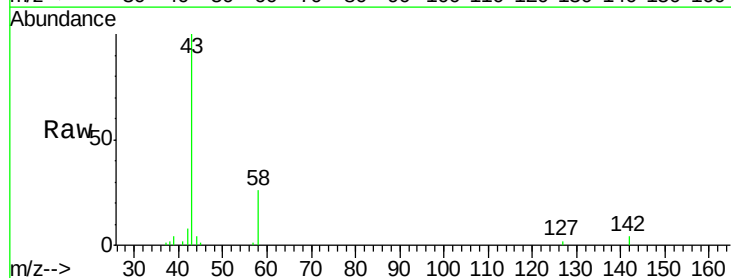
Instrument :
MSVOA_D
ClientSampled :

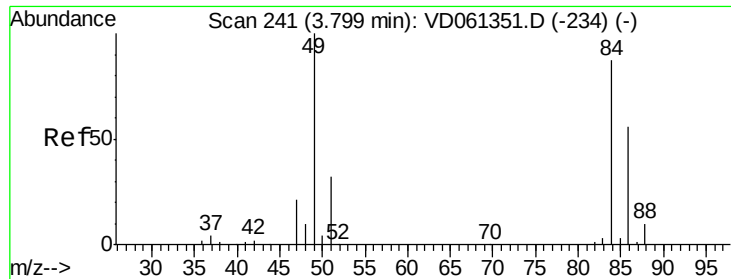
Tot Ion: 59 Resp: 205171
Ion Ratio Lower Upper
59 100
57 1.2 6.7 10.1#



#16
Acetone
Concen: 120.699 ug/l
RT: 3.28 min Scan# 189
Delta R.T. 0.09 min
Lab File: VD061518.D
Acq: 2 Apr 2019 17:02

Tgt Ion: 43 Resp: 132128
Ion Ratio Lower Upper
43 100
58 26.5 21.5 32.3

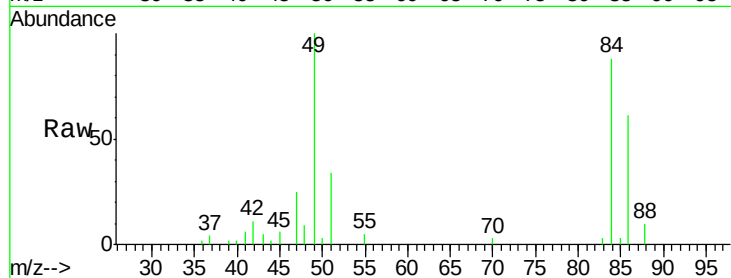




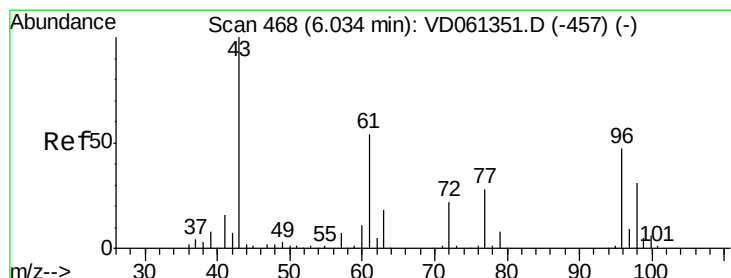
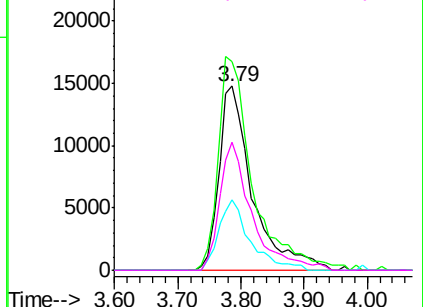
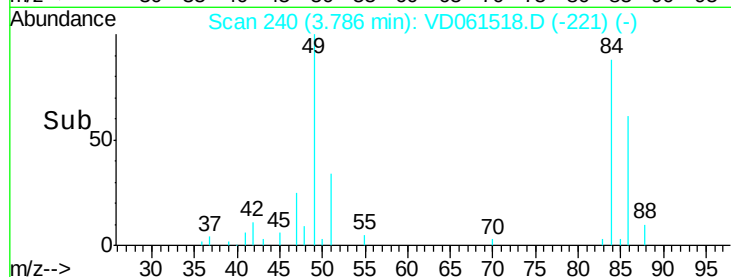
#20
Methylene Chloride
Concen: 7.276 ug/l
RT: 3.79 min Scan# 240
Delta R.T. -0.01 min
Lab File: VD061518.D
Acq: 2 Apr 2019 17:02

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 54678
Ion Ratio Lower Upper
84 100
49 113.3 91.8 137.8
51 38.1 29.8 44.8
86 69.4 51.8 77.6

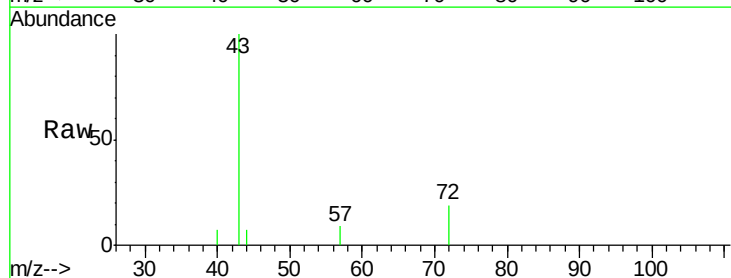


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

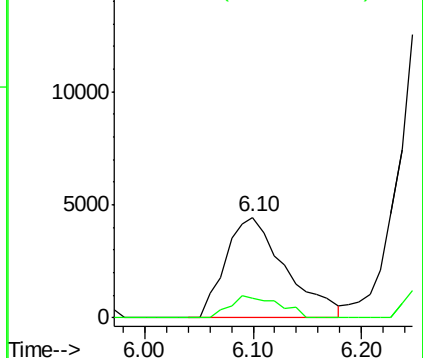
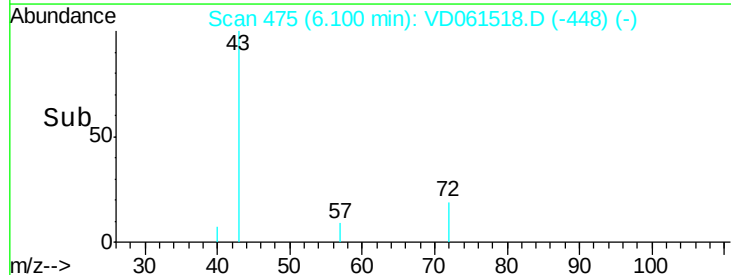


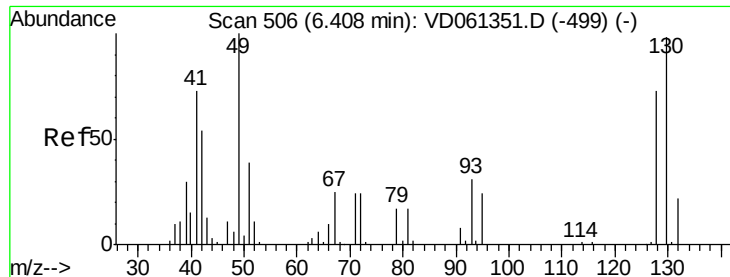
#25
2-Butanone
Concen: 12.485 ug/l
RT: 6.10 min Scan# 475
Delta R.T. 0.07 min
Lab File: VD061518.D
Acq: 2 Apr 2019 17:02

Tgt Ion: 43 Resp: 17192
Ion Ratio Lower Upper
43 100
72 19.1 17.2 25.8



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





#28

Bromochloromethane

Concen: 3.156 ug/l

RT: 6.28 min Scan# 493

Delta R.T. -0.13 min

Lab File: VD061518.D

Acq: 2 Apr 2019 17:02

Instrument :

MSVOA_D

ClientSampleId :

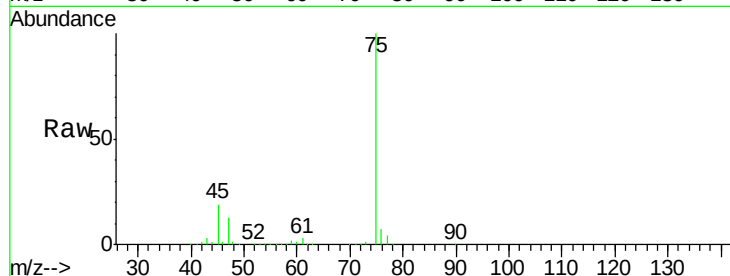
Tot Ion: 49 Resp: 11825

Ion Ratio Lower Upper

49 100

129 0.0 0.0 0.0

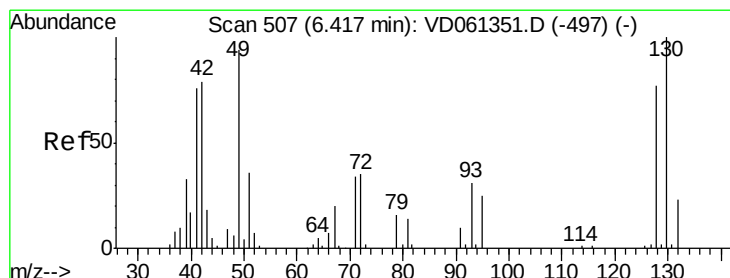
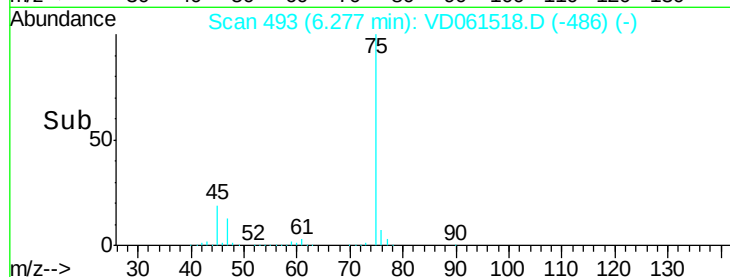
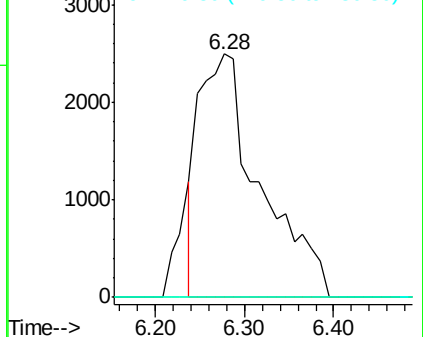
130 0.0 78.4 117.6#



Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): VDC

Ion 129.80 (129.50 to 130.50): VDC



#29

Tetrahydrofuran

Concen: 4.348 ug/l

RT: 6.48 min Scan# 514

Delta R.T. 0.07 min

Lab File: VD061518.D

Acq: 2 Apr 2019 17:02

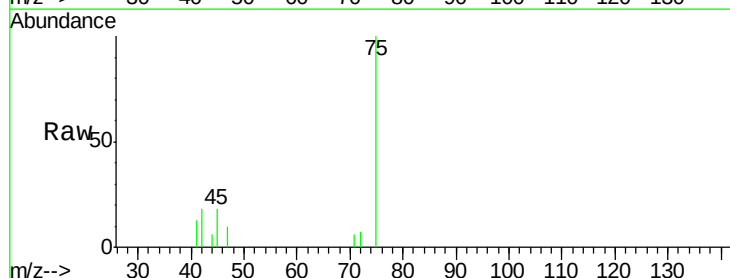
Tgt Ion: 42 Resp: 2902

Ion Ratio Lower Upper

42 100

72 37.4 37.4 56.0#

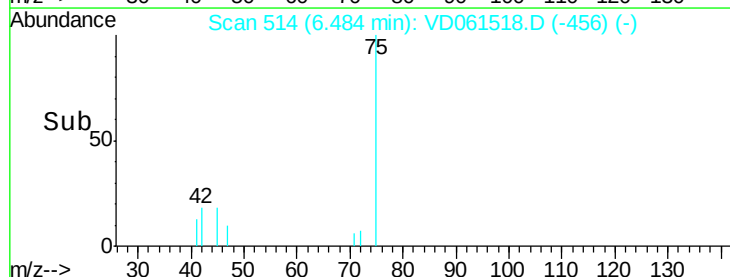
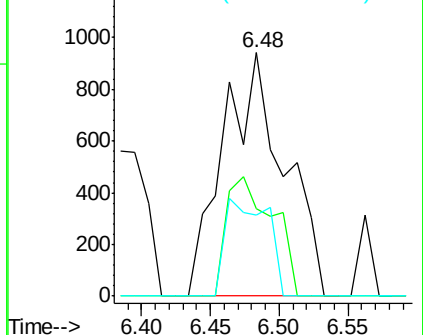
71 27.6 36.7 55.1#

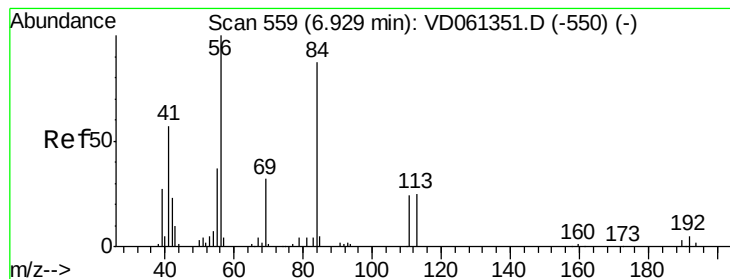


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 1.090 ug/l

RT: 7.02 min Scan# 568

Delta R.T. 0.09 min

Lab File: VD061518.D

Acq: 2 Apr 2019 17:02

Instrument :

MSVOA_D

ClientSampleId :

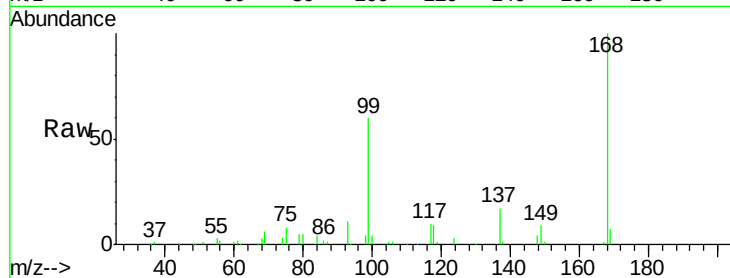
Tot Ion: 56 Resp: 7998

Ion Ratio Lower Upper

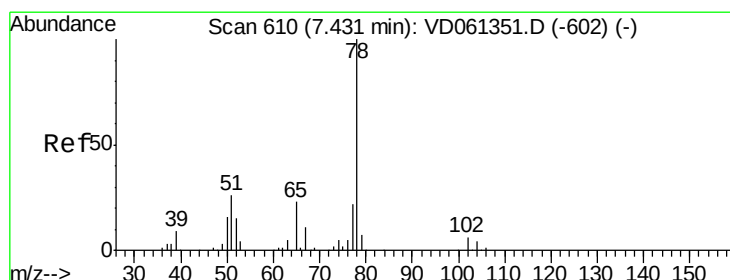
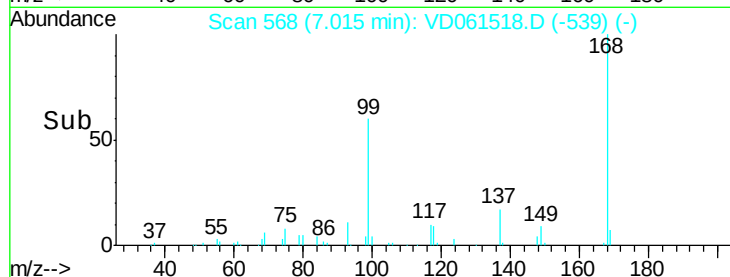
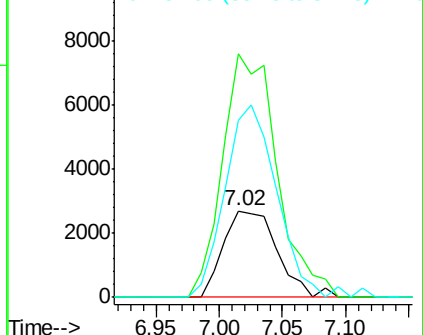
56 100

69 281.6 25.7 38.5#

84 204.0 70.6 105.8#



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



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.44 min Scan# 611

Delta R.T. 0.01 min

Lab File: VD061518.D

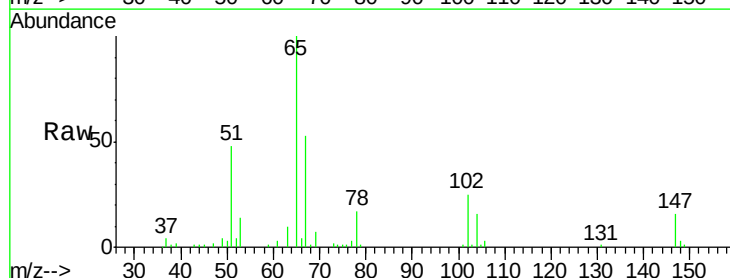
Acq: 2 Apr 2019 17:02

Tgt Ion: 65 Resp: 205774

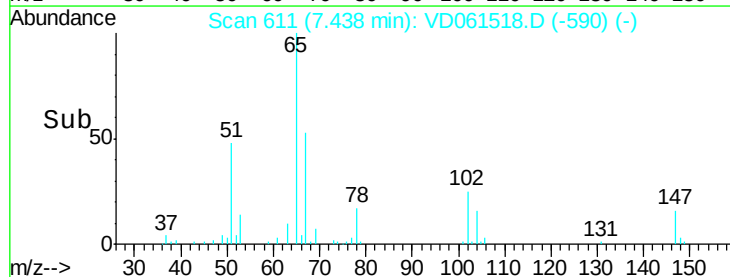
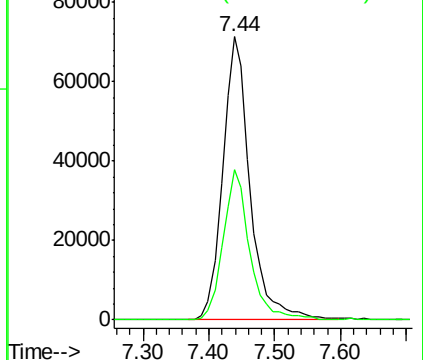
Ion Ratio Lower Upper

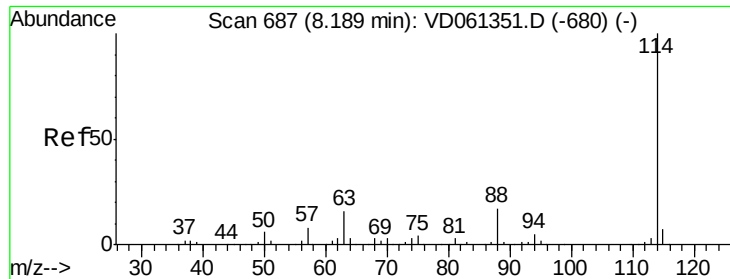
65 100

67 53.2 0.0 99.8



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

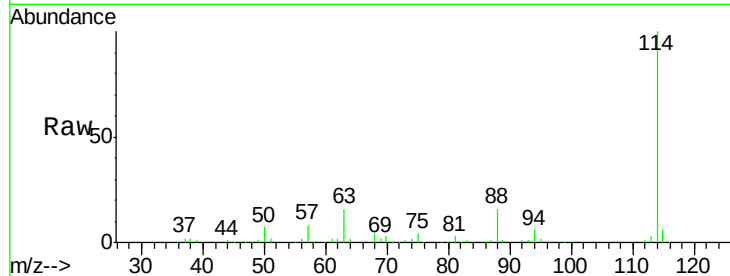




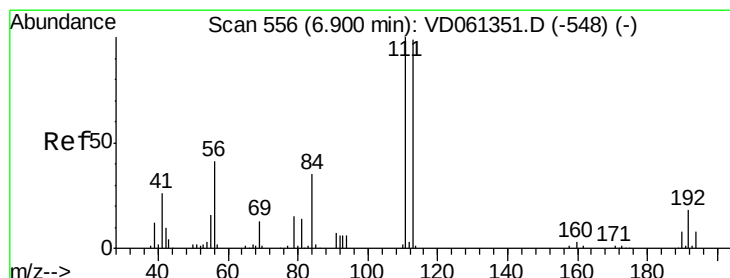
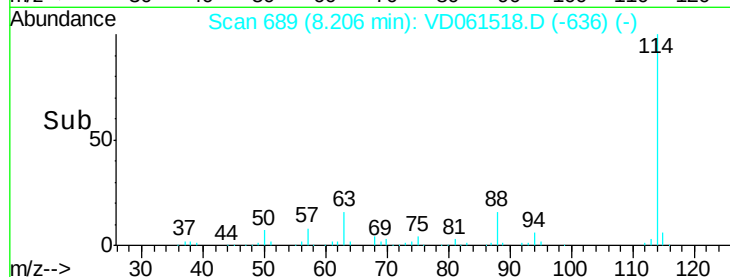
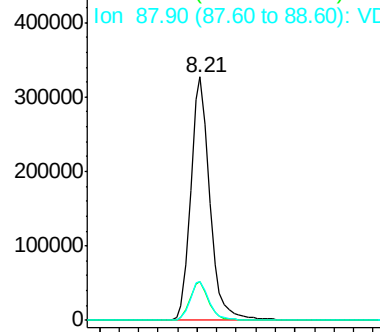
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. 0.02 min
 Lab File: VD061518.D
 Acq: 2 Apr 2019 17:02

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 889398
 Ion Ratio Lower Upper
 114 100
 63 15.9 0.0 31.6
 88 16.2 0.0 33.4

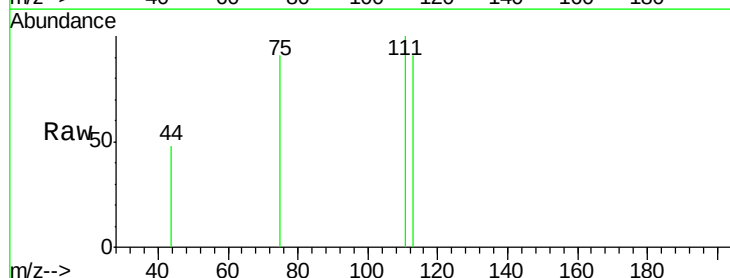


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

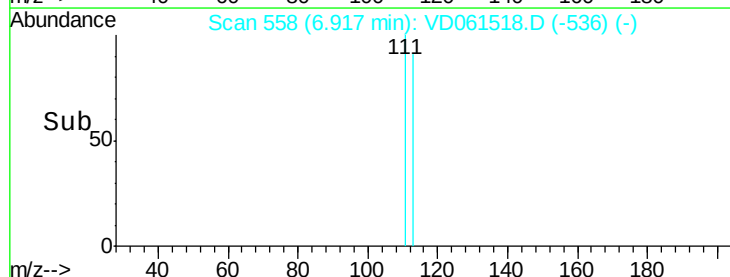
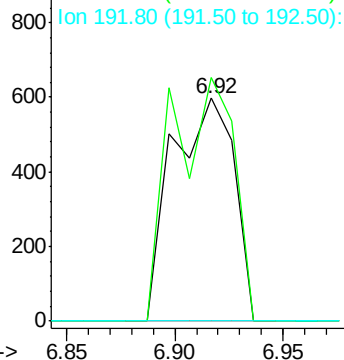


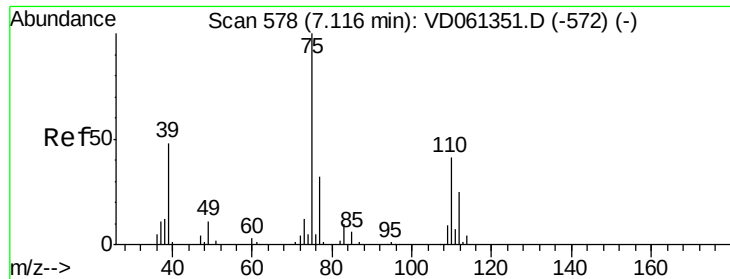
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.02 min
 Lab File: VD061518.D
 Acq: 2 Apr 2019 17:02

Tgt Ion:113 Resp: 1194
 Ion Ratio Lower Upper
 113 100
 111 109.4 81.0 121.6
 192 0.0 14.4 21.6#



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

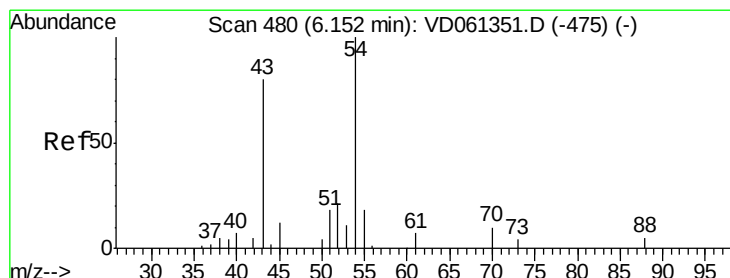
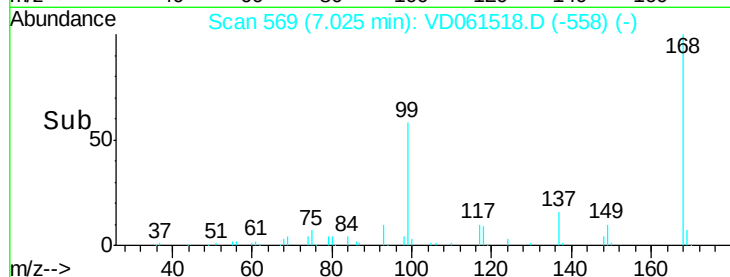
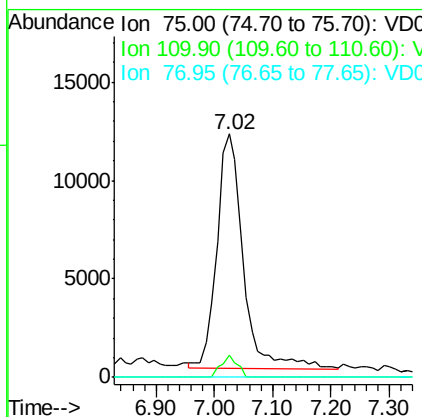
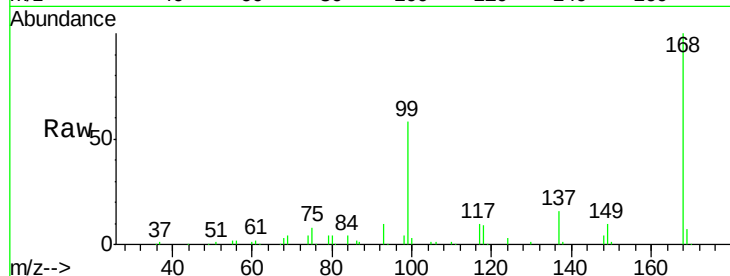




#36
 1,1-Dichloropropene
 Concen: 4.825 ug/l
 RT: 7.02 min Scan# 569
 Delta R.T. -0.09 min
 Lab File: VD061518.D
 Acq: 2 Apr 2019 17:02

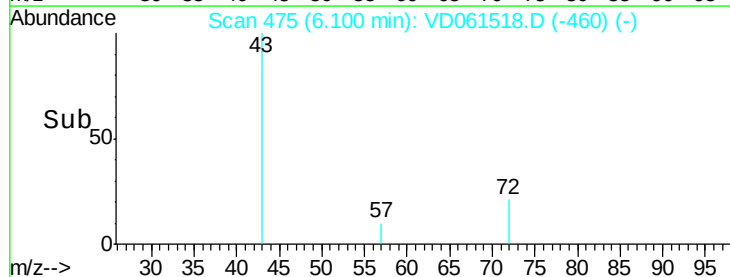
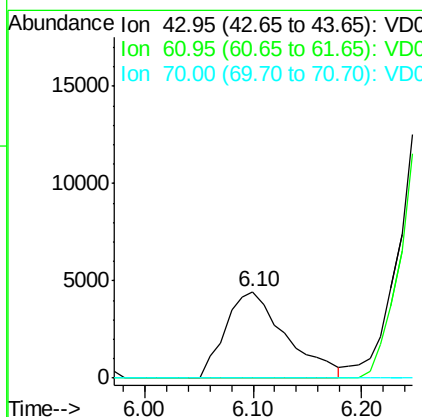
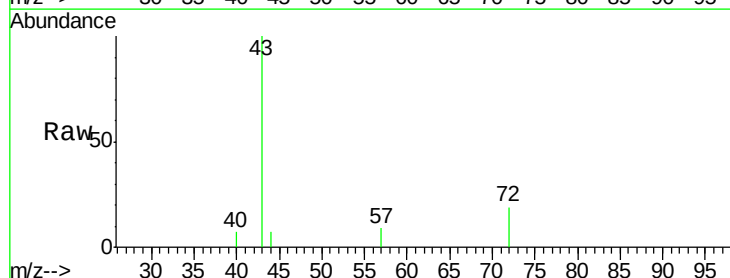
Instrument :
 MSVOA_D
 ClientSampleId :

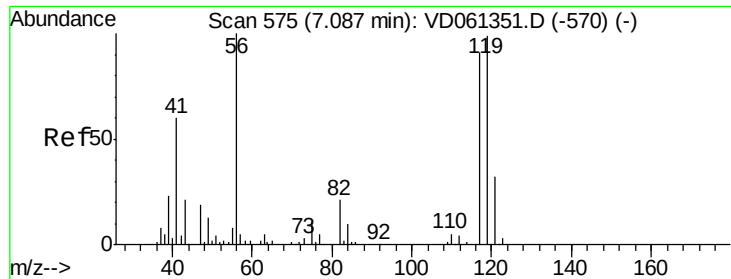
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.3	20.4	61.3#
77	0.0	24.9	37.3#



#37
 Ethyl Acetate
 Concen: 5.179 ug/l
 RT: 6.10 min Scan# 475
 Delta R.T. -0.05 min
 Lab File: VD061518.D
 Acq: 2 Apr 2019 17:02

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	13.8	20.8#
70	0.0	7.8	11.8#

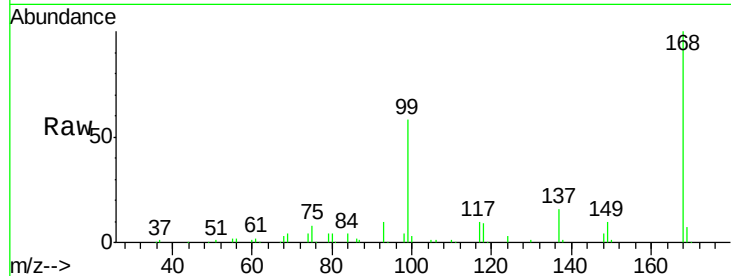




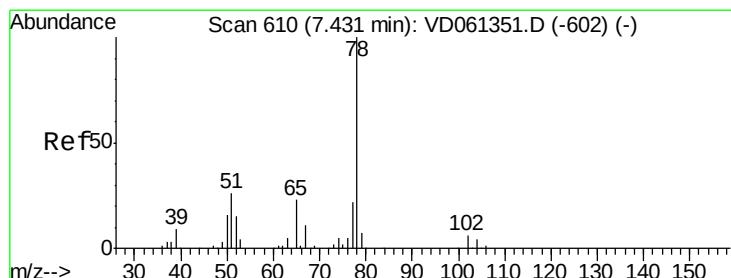
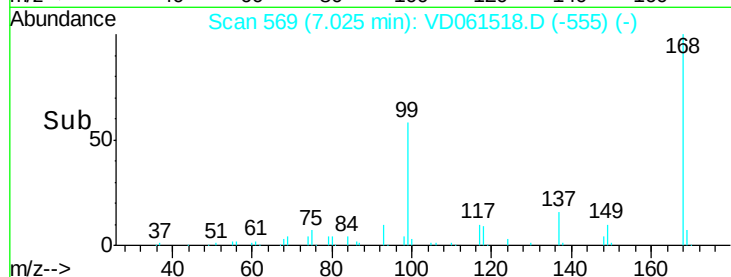
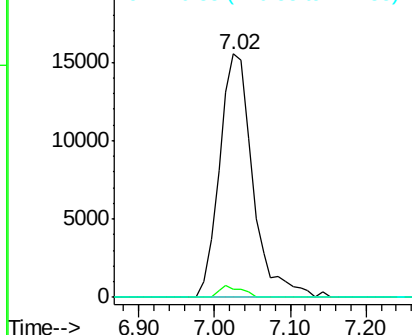
#38
Carbon Tetrachloride
Concen: 5.304 ug/l
RT: 7.02 min Scan# 569
Delta R.T. -0.06 min
Lab File: VD061518.D
Acq: 2 Apr 2019 17:02

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 47314
Ion Ratio Lower Upper
117 100
119 3.2 80.1 120.1#
121 0.0 25.6 38.4#

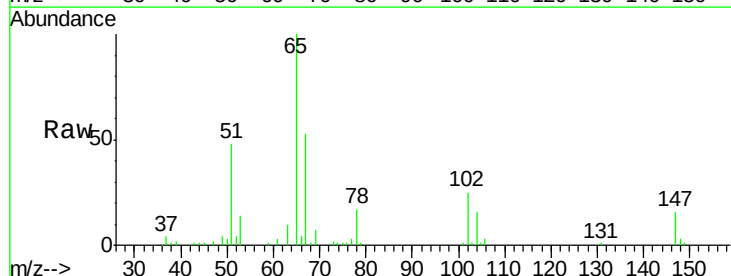


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

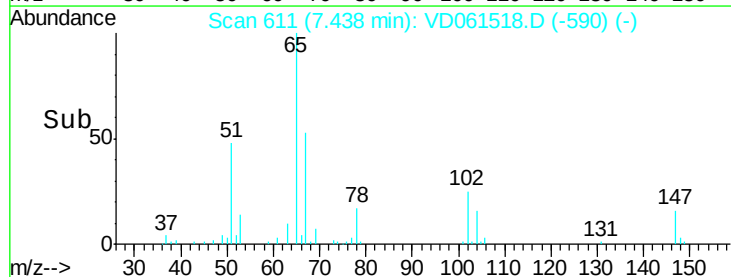
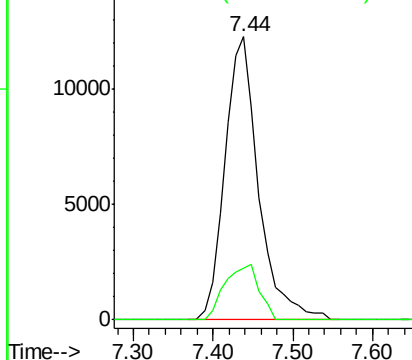


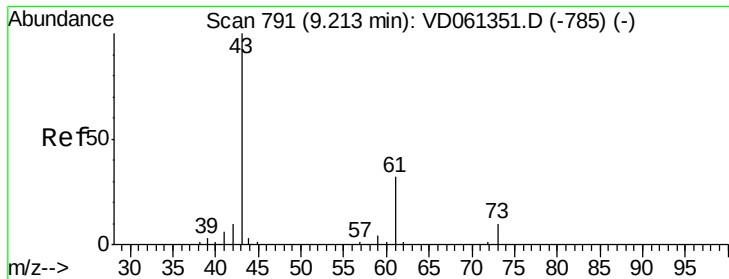
#40
Benzene
Concen: 1.865 ug/l
RT: 7.44 min Scan# 611
Delta R.T. 0.01 min
Lab File: VD061518.D
Acq: 2 Apr 2019 17:02

Tgt Ion: 78 Resp: 36333
Ion Ratio Lower Upper
78 100
77 18.5 17.8 26.6



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC





#43

Isopropyl Acetate

Concen: 1.835 ug/l

RT: 9.04 min Scan# 774

Delta R.T. -0.17 min

Lab File: VD061518.D

Acq: 2 Apr 2019 17:02

Instrument :

MSVOA_D

ClientSampleId :

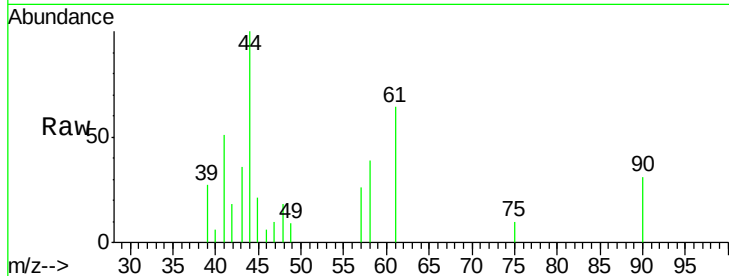
Tot Ion: 43 Resp: 8862

Ion Ratio Lower Upper

43 100

61 177.5 25.8 38.6#

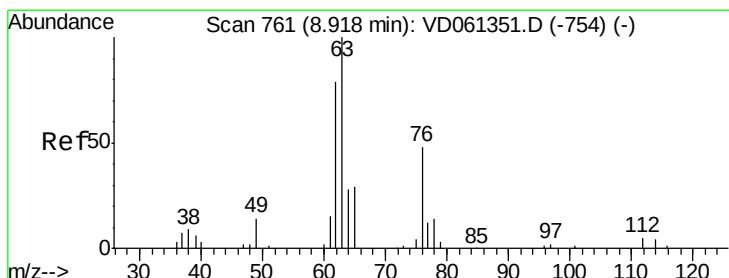
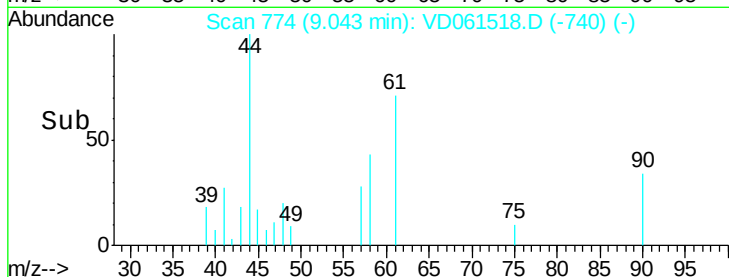
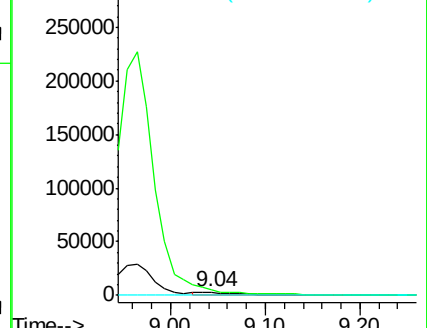
87 0.0 0.0 0.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#45

1,2-Dichloropropane

Concen: 5.474 ug/l

RT: 8.96 min Scan# 766

Delta R.T. 0.05 min

Lab File: VD061518.D

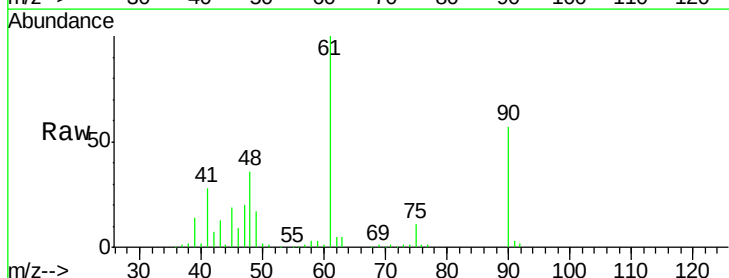
Acq: 2 Apr 2019 17:02

Tgt Ion: 63 Resp: 27043

Ion Ratio Lower Upper

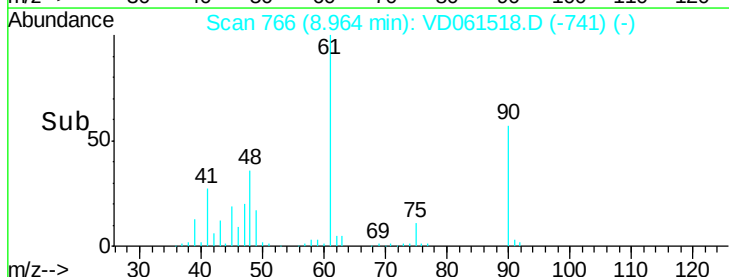
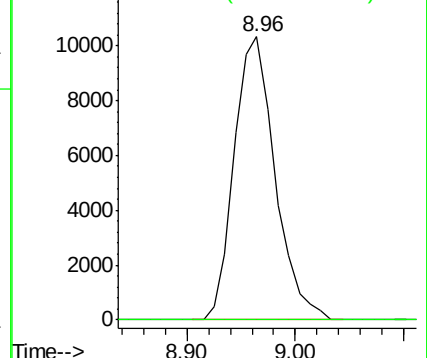
63 100

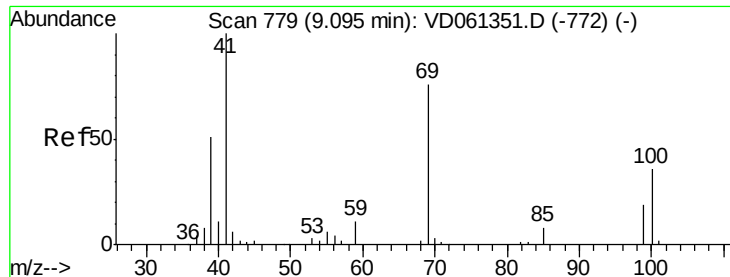
65 0.0 25.0 37.4#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

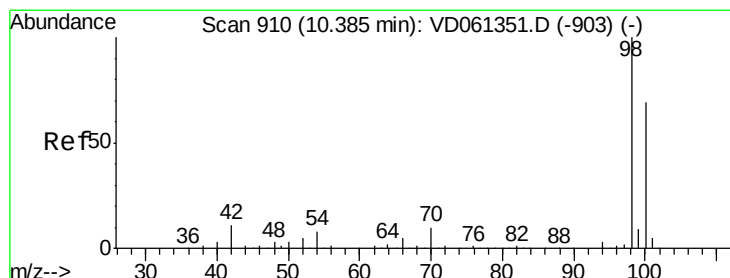
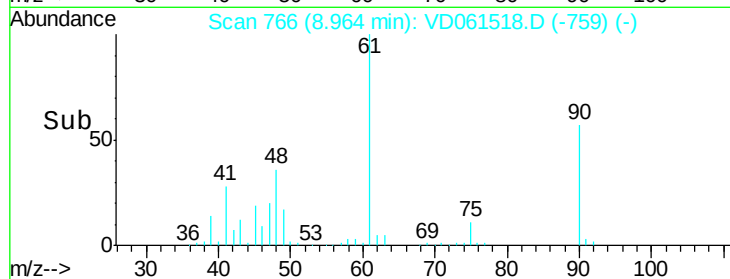
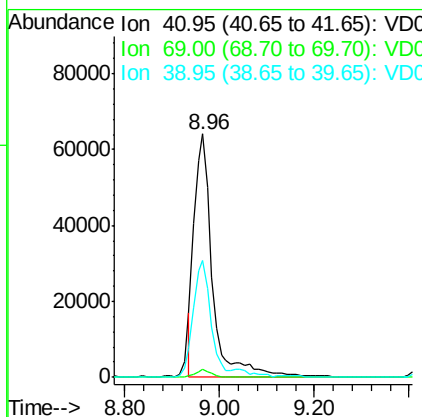
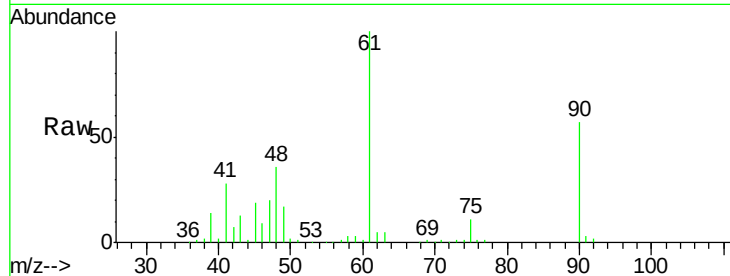




#48
Methyl methacrylate
Concen: 65.634 ug/l
RT: 8.96 min Scan# 766
Delta R.T. -0.13 min
Lab File: VD061518.D
Acq: 2 Apr 2019 17:02

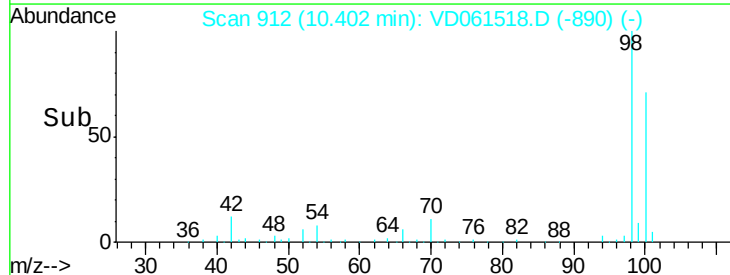
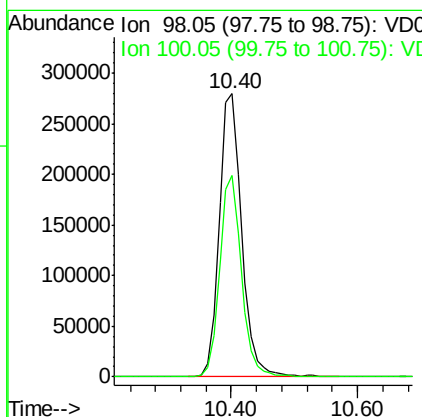
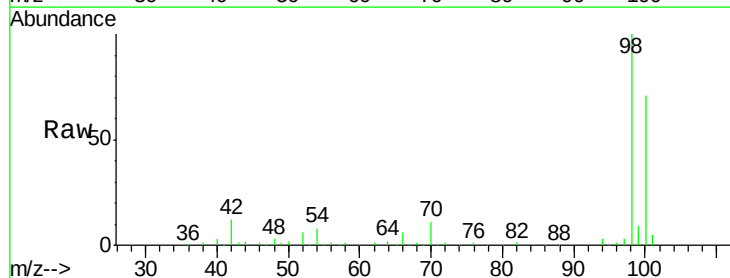
Instrument :
MSVOA_D
ClientSampleId :

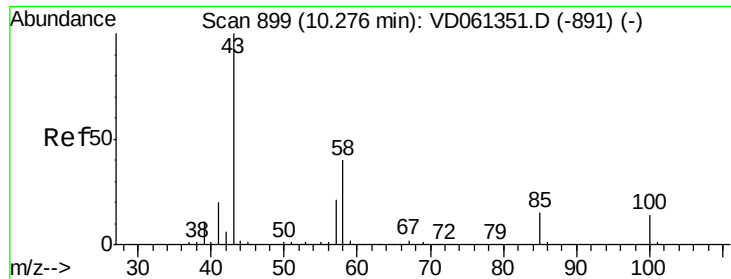
Tot Ion: 41 Resp: 174964
Ion Ratio Lower Upper
41 100
69 3.5 60.2 90.4#
39 48.2 41.4 62.2



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.02 min
Lab File: VD061518.D
Acq: 2 Apr 2019 17:02

Tgt Ion: 98 Resp: 697264
Ion Ratio Lower Upper
98 100
100 71.2 56.2 84.2





#51

4-Methyl-2-Pentanone

Concen: 7.364 ug/l

RT: 10.30 min Scan# 902

Delta R.T. 0.03 min

Lab File: VD061518.D

Acq: 2 Apr 2019 17:02

Instrument :

MSVOA_D

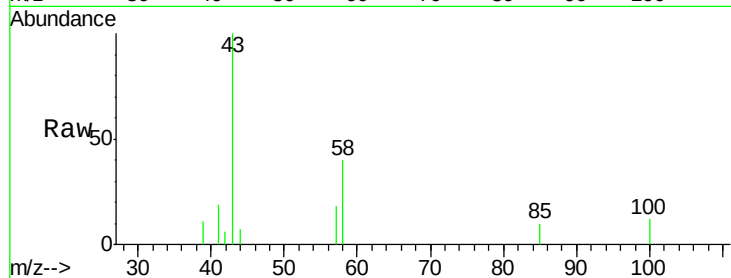
ClientSampleId :

Tot Ion: 43 Resp: 21640

Ion Ratio Lower Upper

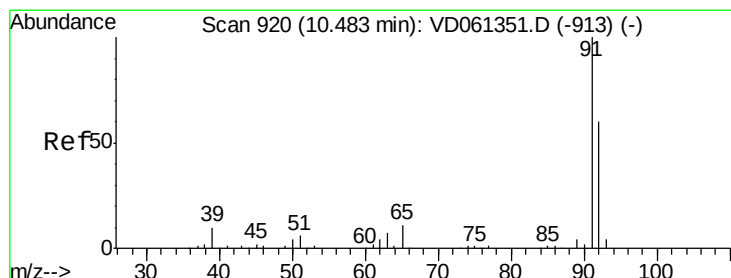
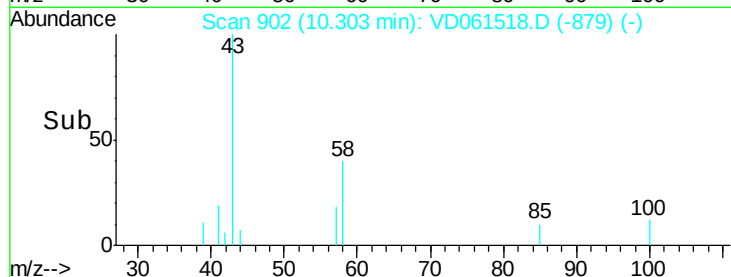
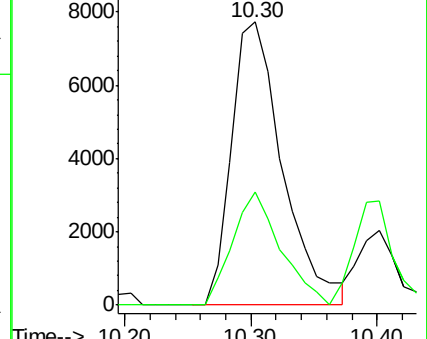
43 100

58 40.0 31.8 47.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 3.442 ug/l

RT: 10.49 min Scan# 921

Delta R.T. 0.01 min

Lab File: VD061518.D

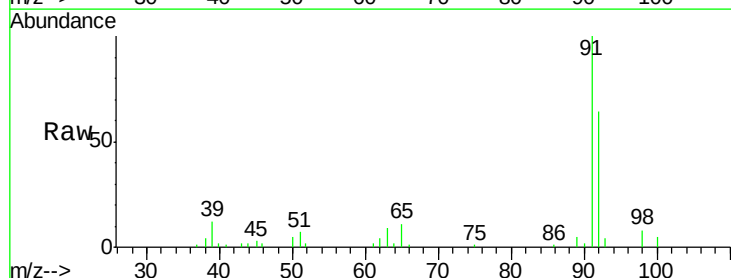
Acq: 2 Apr 2019 17:02

Tgt Ion: 92 Resp: 40913

Ion Ratio Lower Upper

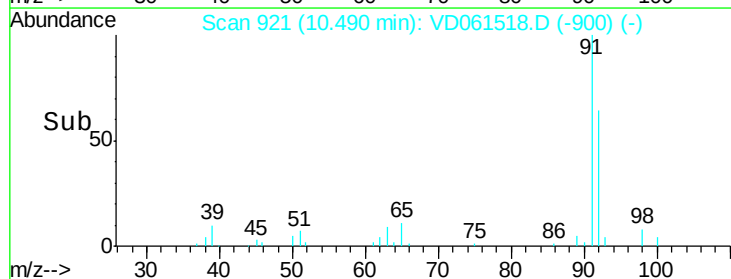
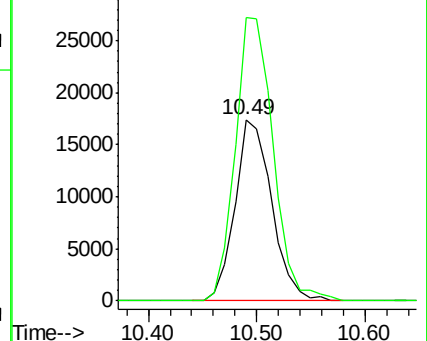
92 100

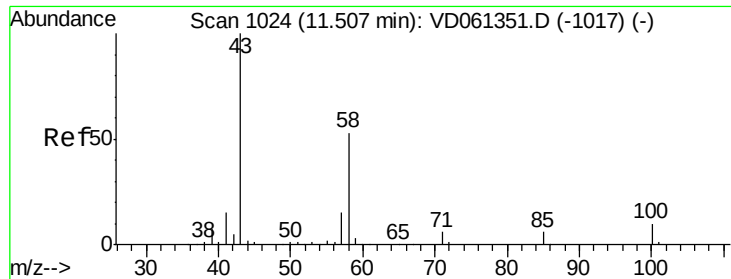
91 156.0 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

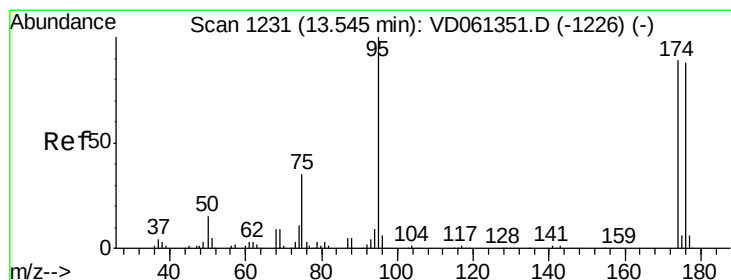
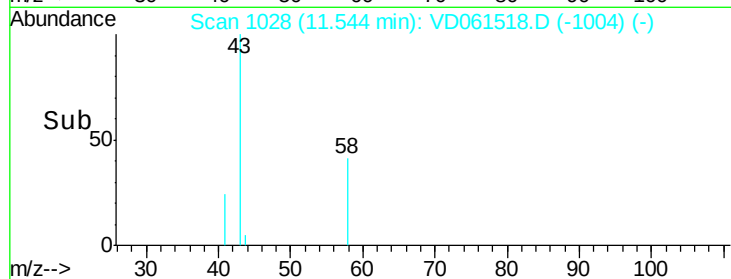
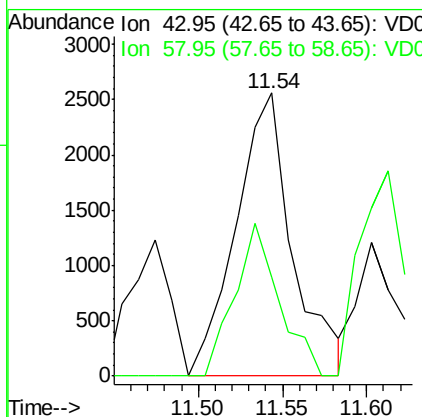
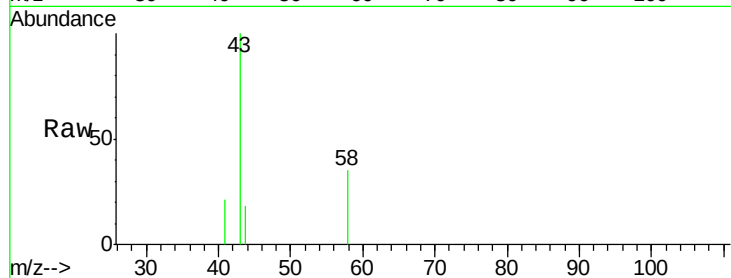




#59
2-Hexanone
Concen: 2.793 ug/l
RT: 11.54 min Scan# 1028
Delta R.T. 0.04 min
Lab File: VD061518.D
Acq: 2 Apr 2019 17:02

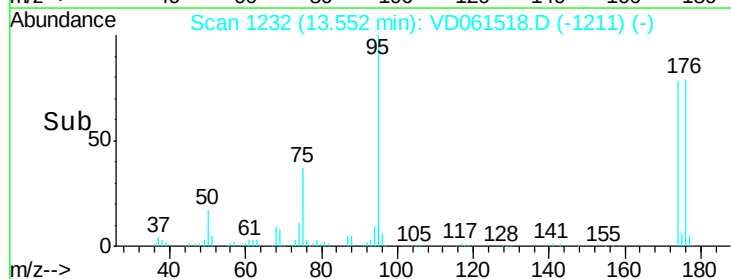
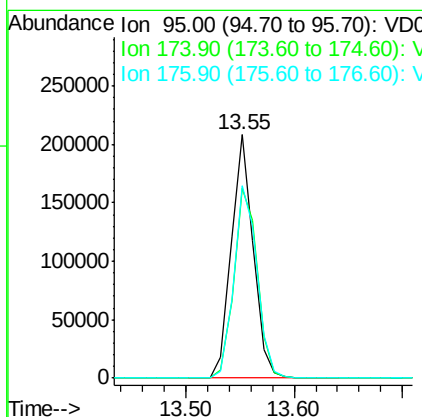
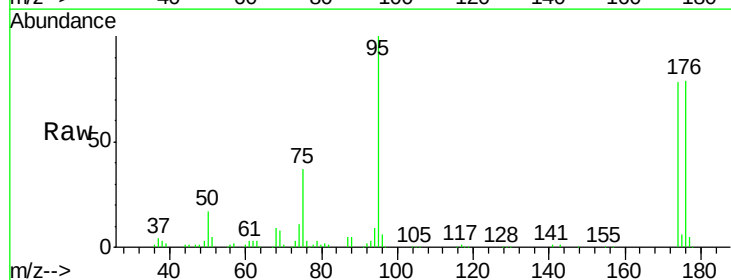
Instrument :
MSVOA_D
ClientSampled :

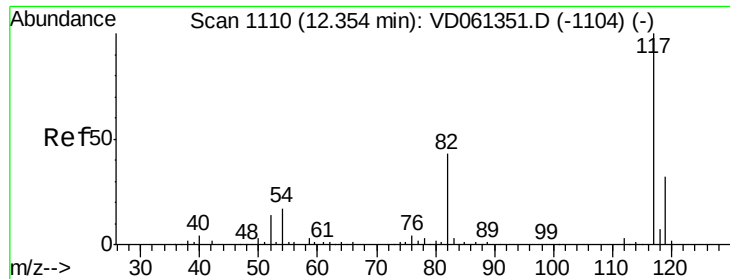
Tot Ion: 43 Resp: 5946
Ion Ratio Lower Upper
43 100
58 35.1 26.3 78.9



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD061518.D
Acq: 2 Apr 2019 17:02

Tgt Ion: 95 Resp: 294524
Ion Ratio Lower Upper
95 100
174 77.8 0.0 178.0
176 79.2 0.0 175.0

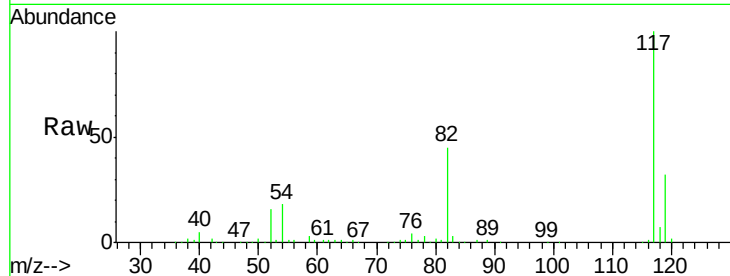




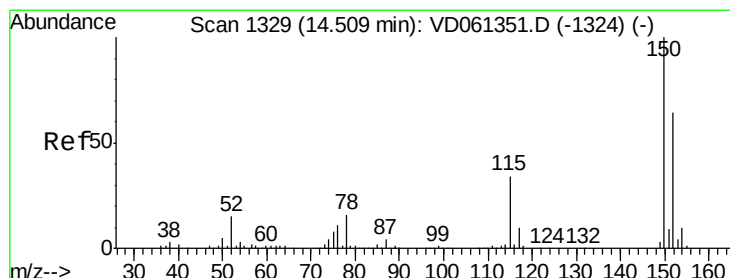
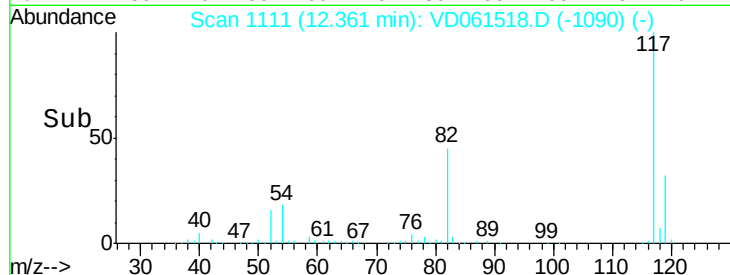
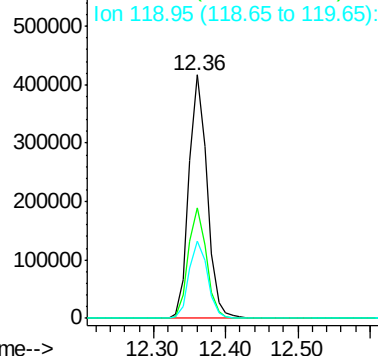
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VD061518.D
Acq: 2 Apr 2019 17:02

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 715896
Ion Ratio Lower Upper
117 100
82 45.3 34.4 51.6
119 32.0 25.8 38.6

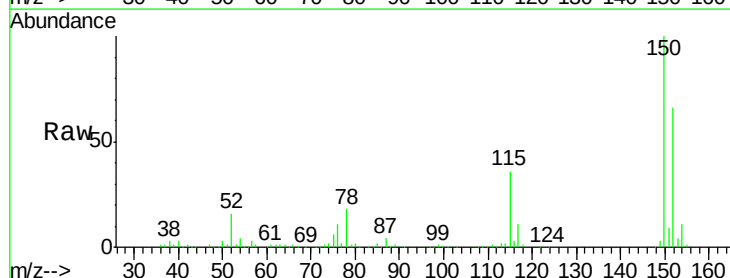


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

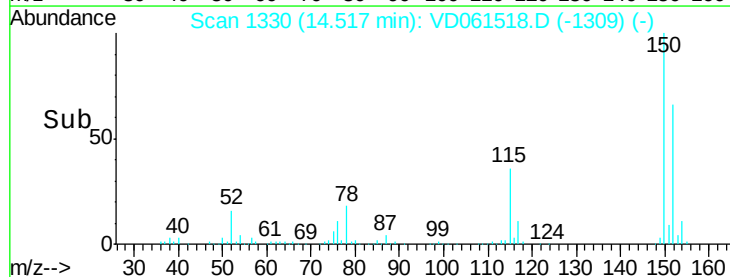
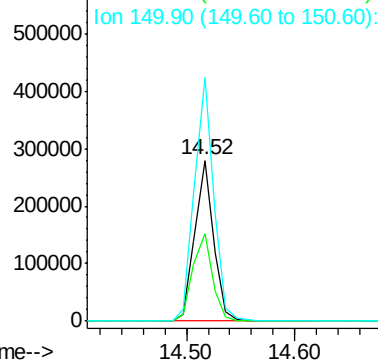


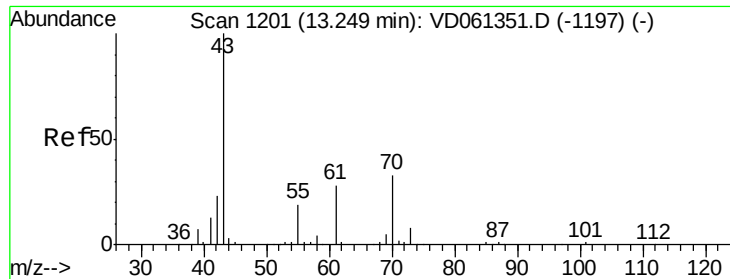
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.01 min
Lab File: VD061518.D
Acq: 2 Apr 2019 17:02

Tgt Ion:152 Resp: 338479
Ion Ratio Lower Upper
152 100
115 54.6 26.9 80.6
150 151.5 0.0 318.0



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-amvl acetate

Concen: 4.353 ug/l

RT: 13.20 min Scan# 1196

Delta R.T. -0.05 min

Lab File: VD061518.D

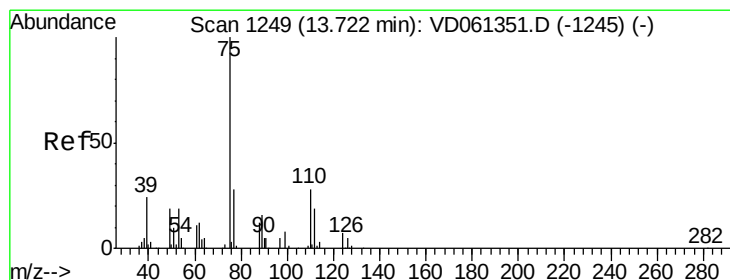
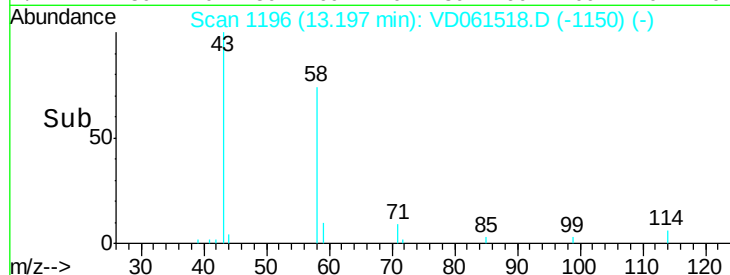
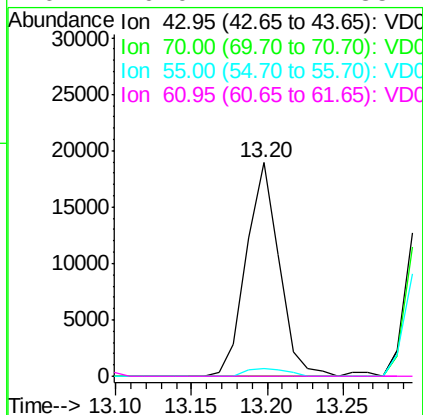
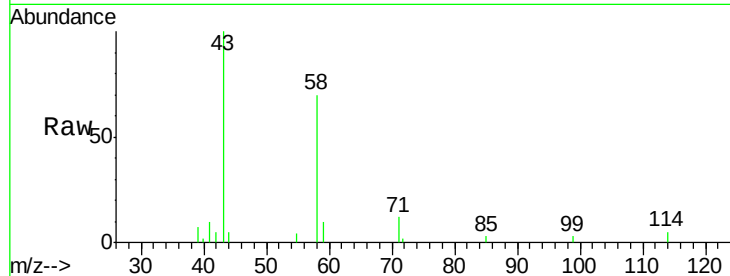
Acq: 2 Apr 2019 17:02

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion:	43	Resp:	28564
Ion	Ratio	Lower	Upper
43	100		
70	0.0	26.6	40.0#
55	3.9	15.4	23.2#
61	0.0	22.2	33.4#



#76

1,2,3-Trichloropropane

Concen: 15.679 ug/l

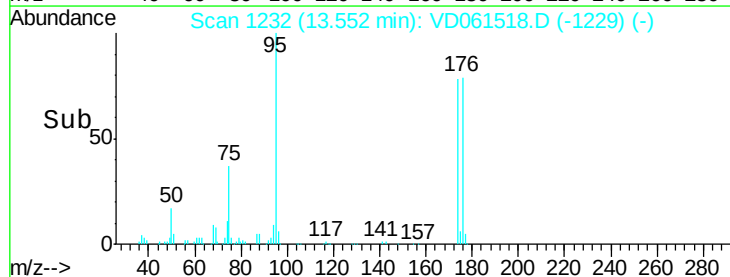
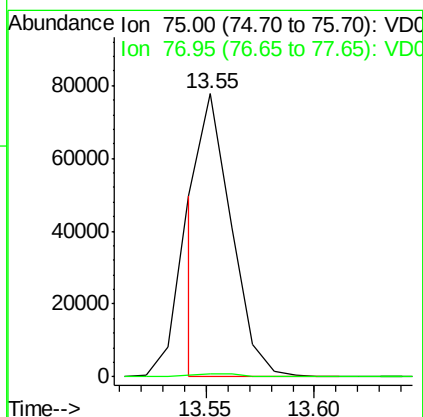
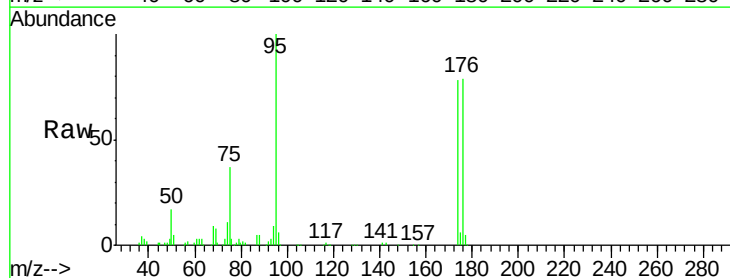
RT: 13.55 min Scan# 1232

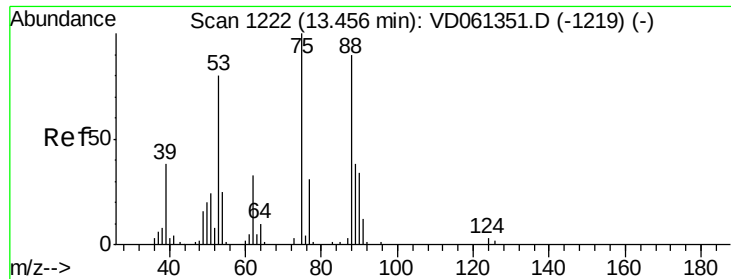
Delta R.T. -0.17 min

Lab File: VD061518.D

Acq: 2 Apr 2019 17:02

Tgt Ion:	75	Resp:	76659
Ion	Ratio	Lower	Upper
75	100		
77	1.1	16.2	48.5#





#81

trans-1,4-Dichloro-2-butene

Concen: 74.415 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.10 min

Lab File: VD061518.D

Acq: 2 Apr 2019 17:02

Instrument :

MSVOA_D

ClientSampleId :

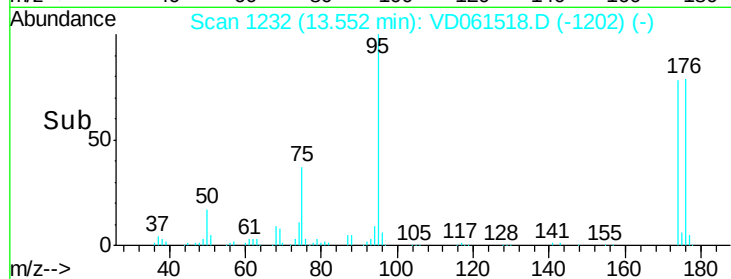
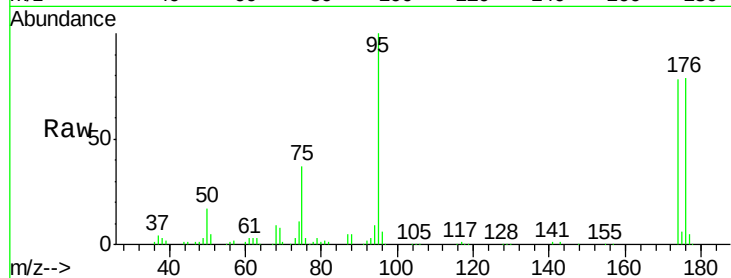
Tot Ion: 75 Resp: 110937

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#



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

