

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041619\
 Data File : VD061839.D
 Acq On : 17 Apr 2019 6:59
 Operator : VA/AP
 Sample : K2423-09
 Misc : 4.78g/5ml/MSVOA D/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 17 07:59:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 08:53:01 2019
 Response via : Initial Calibration

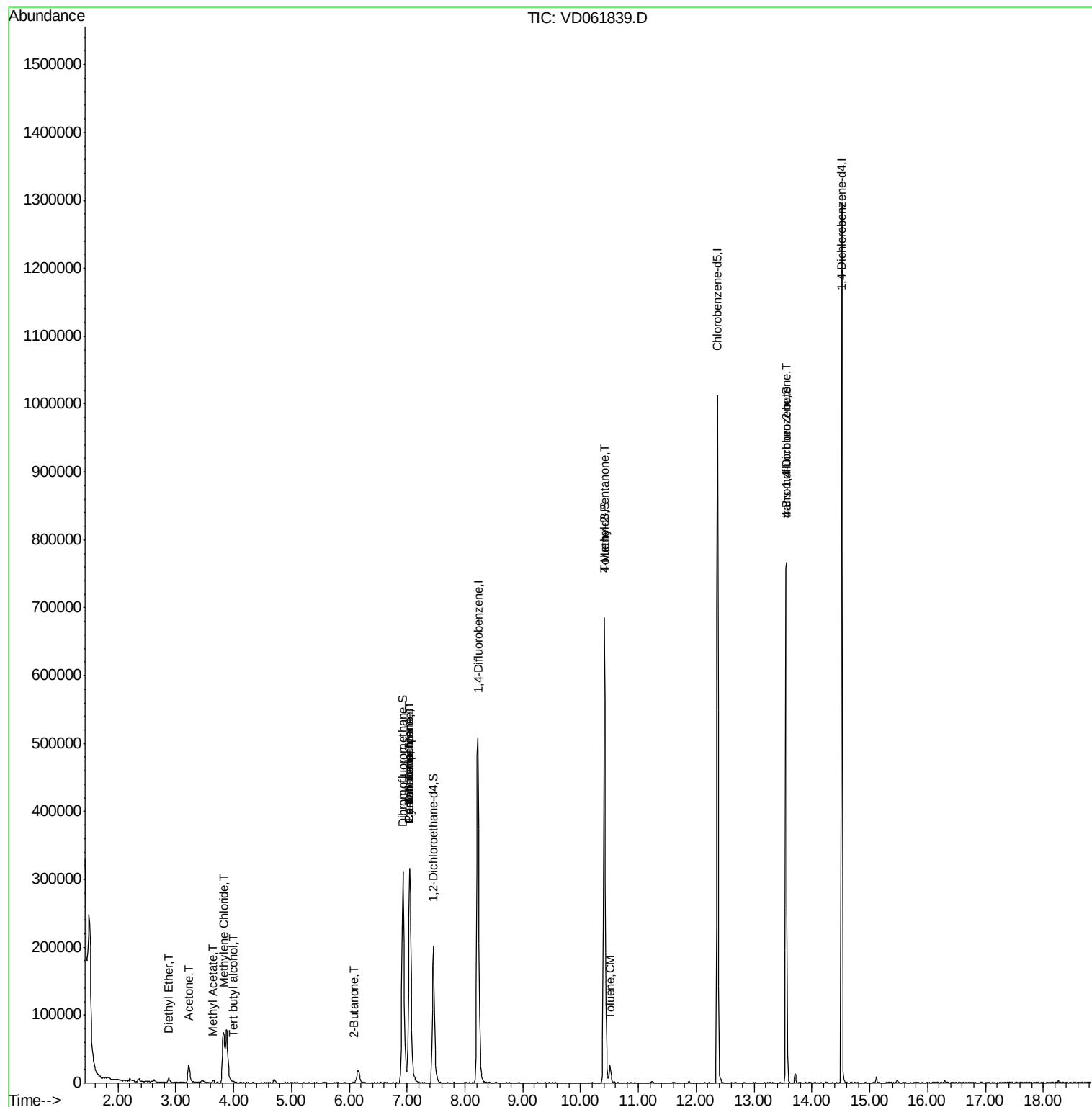
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	335579	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	8.22	114	640757	50.00	ug/l	-0.04
63) Chlorobenzene-d5	12.37	117	591849	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	14.51	152	284201	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.46	65	204130	72.58	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	145.16%	
35) Dibromofluoromethane	6.92	113	294059	60.74	ug/l	-0.05
Spiked Amount 50.000			Recovery	=	121.48%	
50) Toluene-d8	10.41	98	589677	51.41	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	102.82%	
62) 4-Bromofluorobenzene	13.55	95	264740	56.94	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	113.88%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.15	94	764	Below Cal	#	12
8) Diethyl Ether	2.88	74	2826	2.567	ug/l	86
11) Tert butyl alcohol	4.00	59	506	3.051	ug/l #	76
16) Acetone	3.22	43	53144	76.668	ug/l	97
18) Methyl Acetate	3.66	43	5270	3.793	ug/l	99
20) Methylene Chloride	3.82	84	64141	15.446	ug/l	94
25) 2-Butanone	6.08	43	1514	1.919	ug/l #	56
31) Cyclohexane	7.04	56	5193	1.219	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	23094	4.411	ug/l #	50
38) Carbon Tetrachloride	7.04	117	32154	4.863	ug/l #	15
51) 4-Methyl-2-Pentanone	10.41	43	2332	1.209	ug/l #	1
52) Toluene	10.51	92	13632	1.692	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.55	75	104176	83.715	ug/l #	16

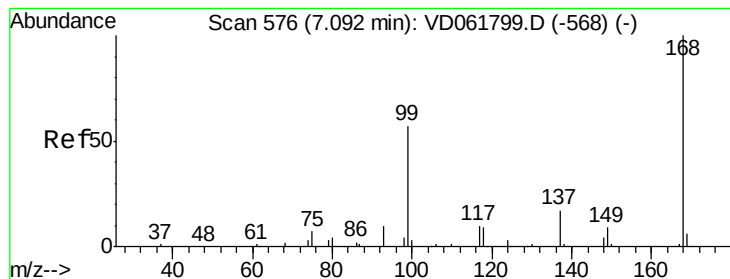
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.05 min

Lab File: VD061839.D

Acq: 17 Apr 2019 6:59

Instrument :

MSVOA_D

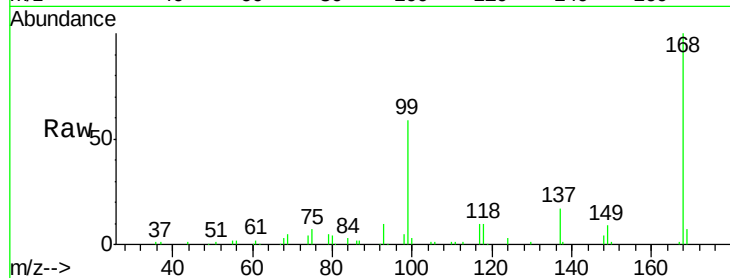
ClientSampled :

Tot Ion:168 Resp: 335579

Ion Ratio Lower Upper

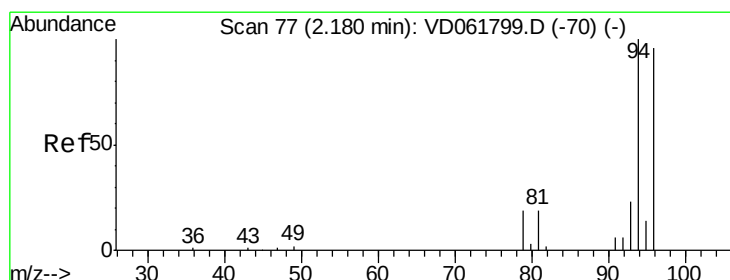
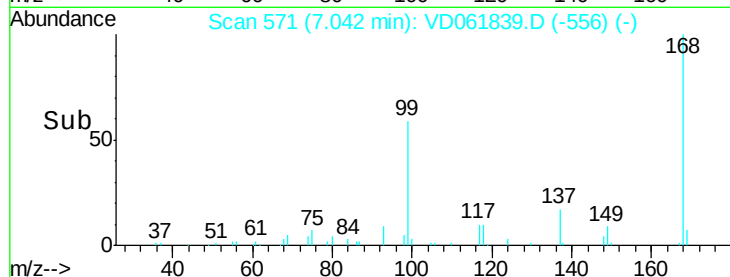
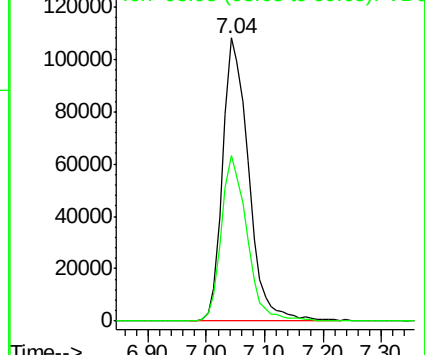
168 100

99 58.7 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: 2.15 min Scan# 74

Delta R.T. -0.03 min

Lab File: VD061839.D

Acq: 17 Apr 2019 6:59

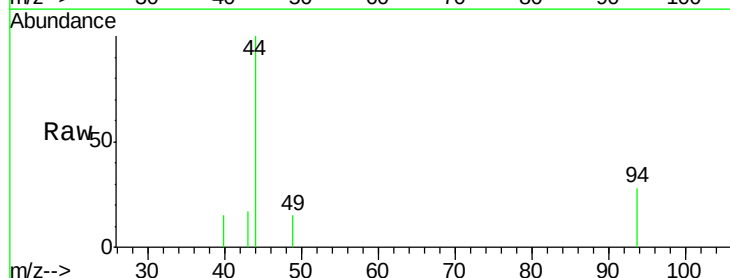
Tgt Ion: 94 Resp: 764

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

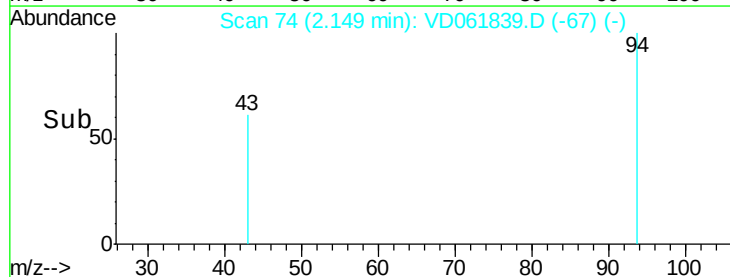
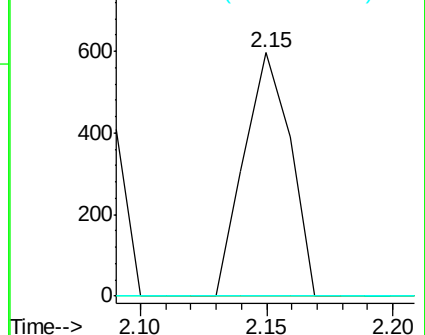
93 0.0 18.5 27.7#

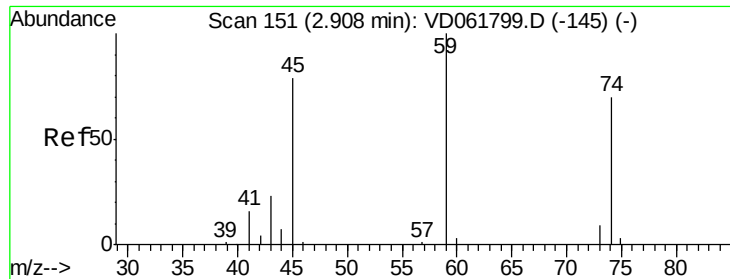


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#8

Diethyl Ether

Concen: 2.567 ug/l

RT: 2.88 min Scan# 148

Delta R.T. -0.03 min

Lab File: VD061839.D

Acq: 17 Apr 2019 6:59

Instrument :

MSVOA_D

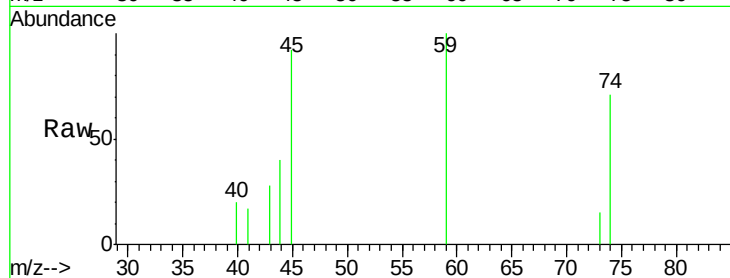
ClientSampled :

Tot Ion: 74 Resp: 2826

Ion Ratio Lower Upper

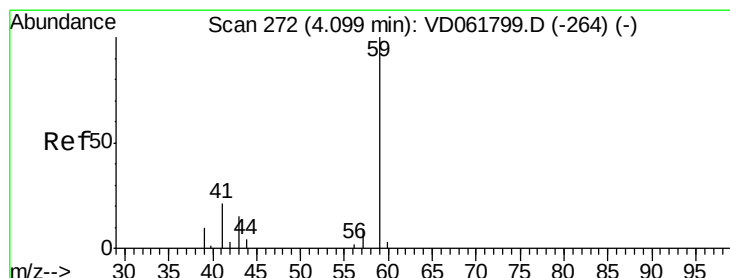
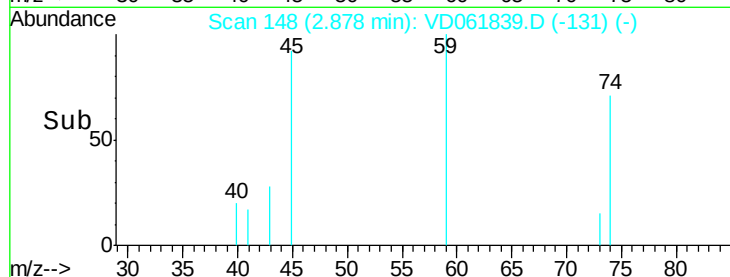
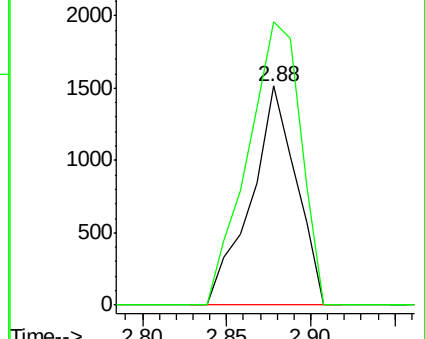
74 100

45 129.3 56.9 170.7



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 3.051 ug/l

RT: 4.00 min Scan# 262

Delta R.T. -0.10 min

Lab File: VD061839.D

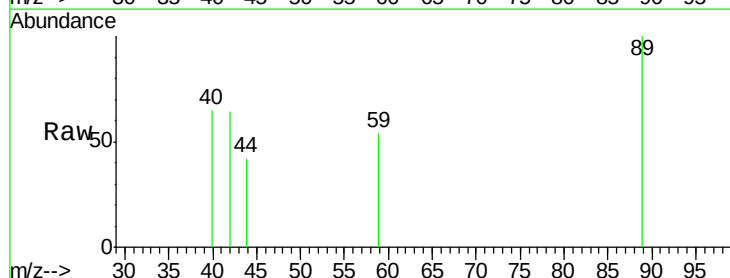
Acq: 17 Apr 2019 6:59

Tgt Ion: 59 Resp: 506

Ion Ratio Lower Upper

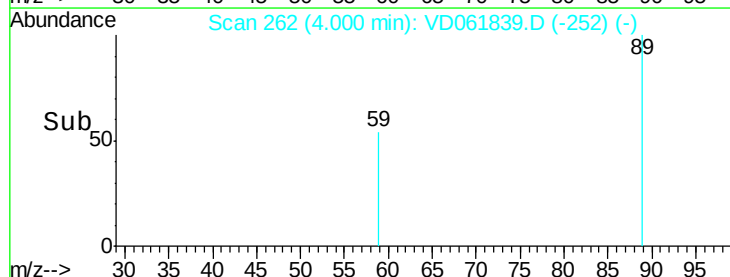
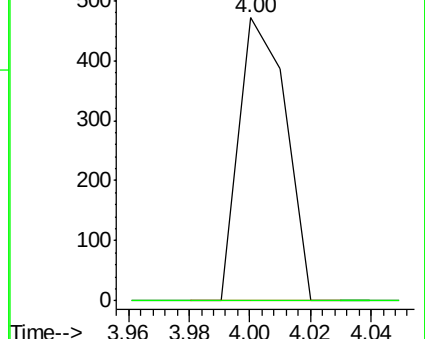
59 100

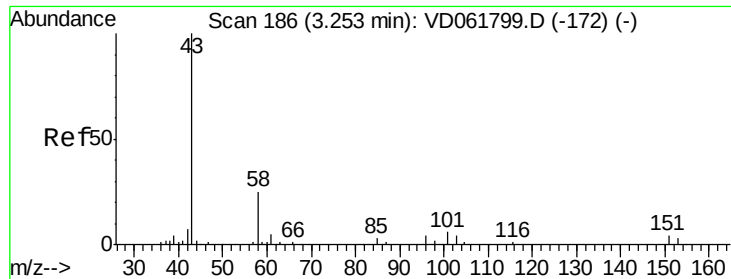
57 0.0 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 76.668 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.03 min

Lab File: VD061839.D

Acq: 17 Apr 2019 6:59

Instrument :

MSVOA_D

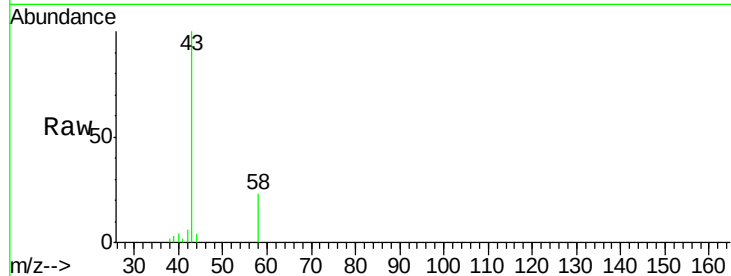
ClientSampleId :

Tot Ion: 43 Resp: 53144

Ion Ratio Lower Upper

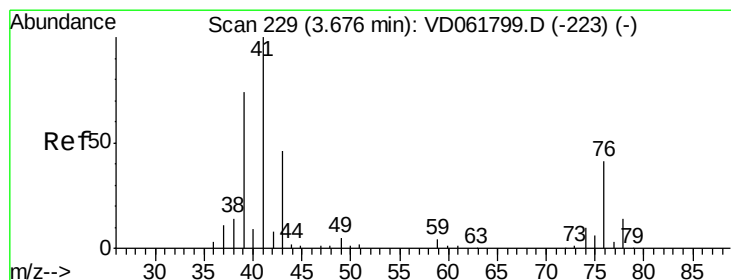
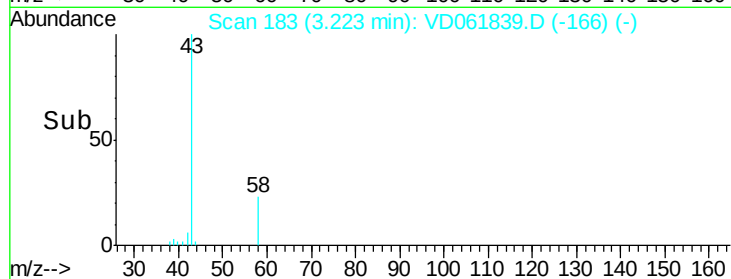
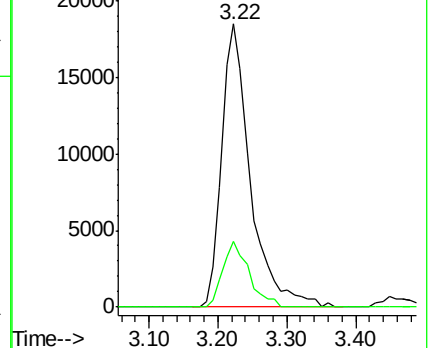
43 100

58 23.4 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: 3.793 ug/l

RT: 3.66 min Scan# 227

Delta R.T. -0.02 min

Lab File: VD061839.D

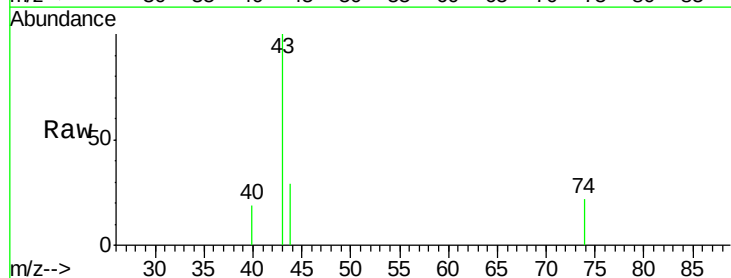
Acq: 17 Apr 2019 6:59

Tgt Ion: 43 Resp: 5270

Ion Ratio Lower Upper

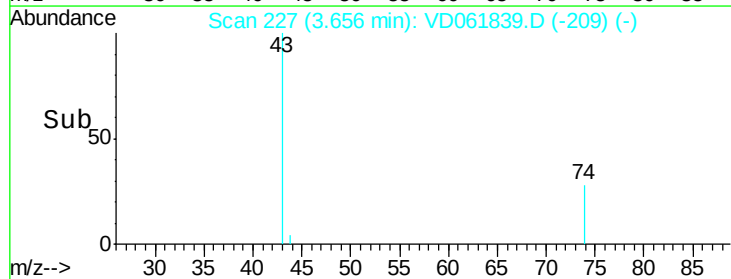
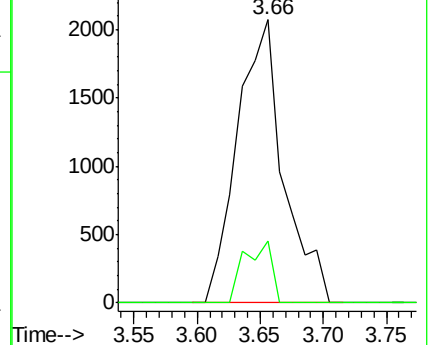
43 100

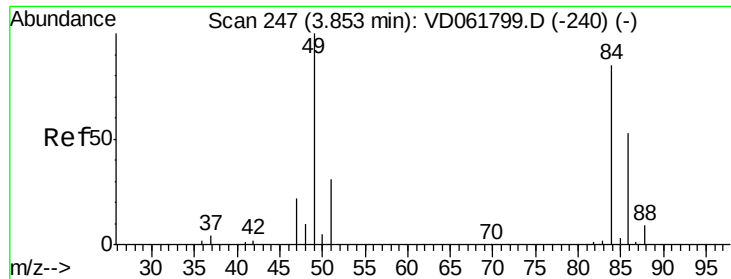
74 22.0 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

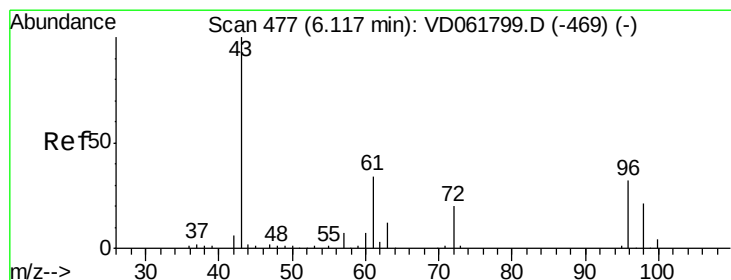
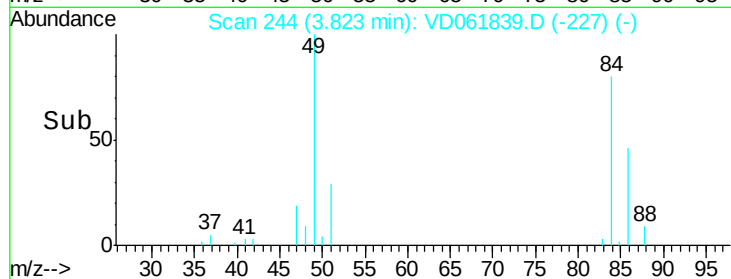
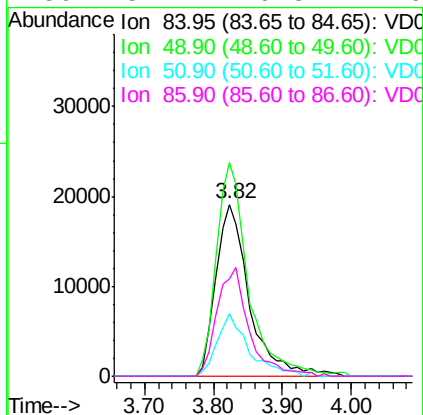
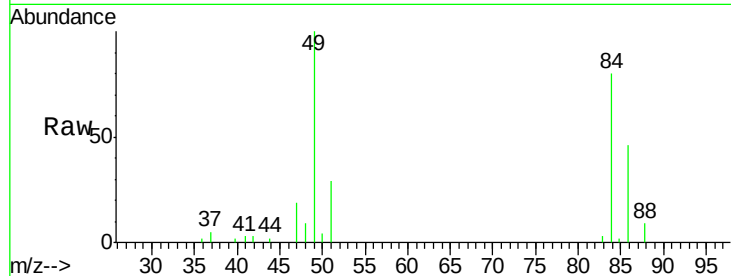




#20
Methvlene Chloride
Concen: 15.446 ug/l
RT: 3.82 min Scan# 244
Delta R.T. -0.03 min
Lab File: VD061839.D
Acq: 17 Apr 2019 6:59

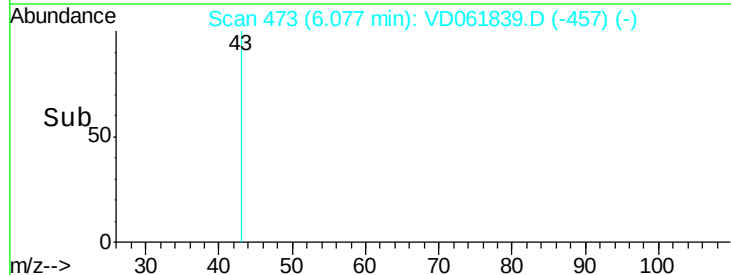
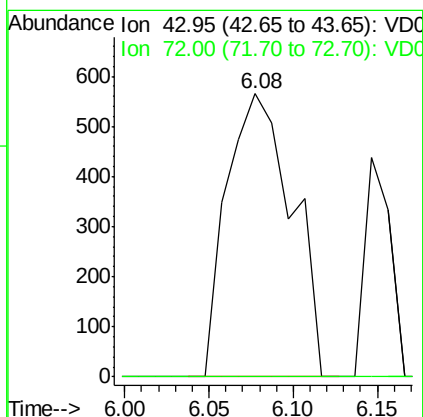
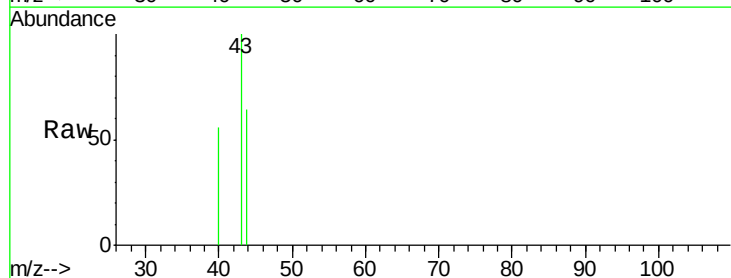
Instrument :
MSVOA_D
ClientSampleId :

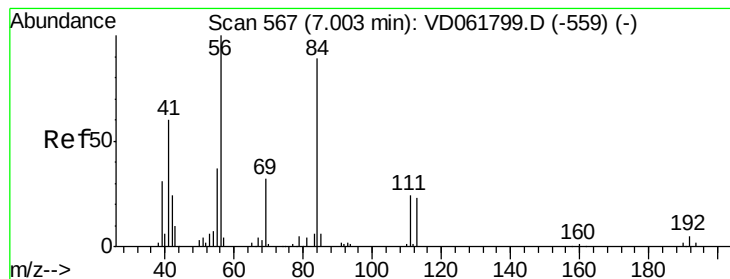
Tot Ion: 84 Resp: 64141
Ion Ratio Lower Upper
84 100
49 124.5 94.0 141.0
51 36.7 29.0 43.4
86 57.1 49.8 74.6



#25
2-Butanone
Concen: 1.919 ug/l
RT: 6.08 min Scan# 473
Delta R.T. -0.04 min
Lab File: VD061839.D
Acq: 17 Apr 2019 6:59

Tgt Ion: 43 Resp: 1514
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.4#





#31

Cyclohexane

Concen: 1.219 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.04 min

Lab File: VD061839.D

Acq: 17 Apr 2019 6:59

Instrument :
MSVOA_D
ClientSampled :

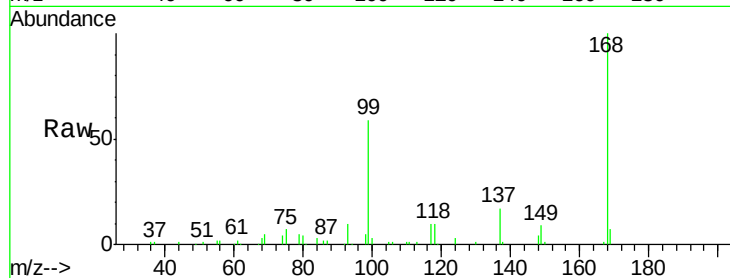
Tot Ion: 56 Resp: 5193

Ion Ratio Lower Upper

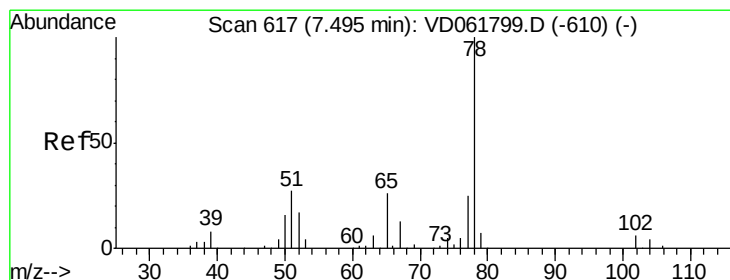
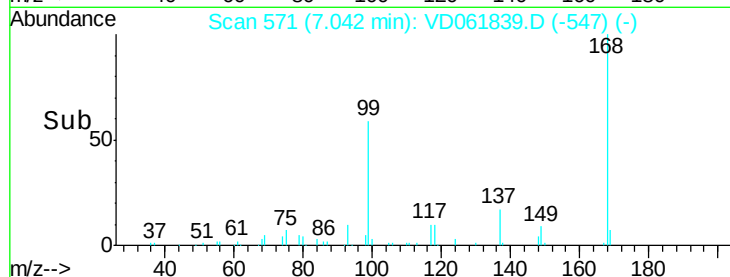
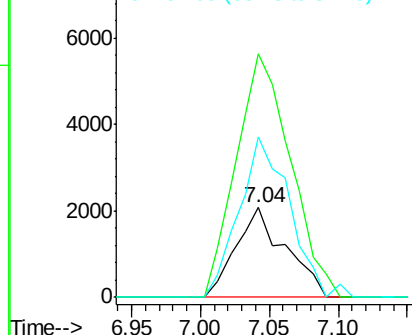
56 100

69 271.7 25.8 38.6#

84 179.1 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: 7.46 min Scan# 613

Delta R.T. -0.04 min

Lab File: VD061839.D

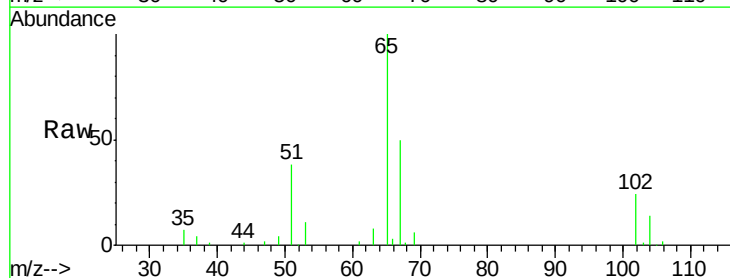
Acq: 17 Apr 2019 6:59

Tgt Ion: 65 Resp: 204130

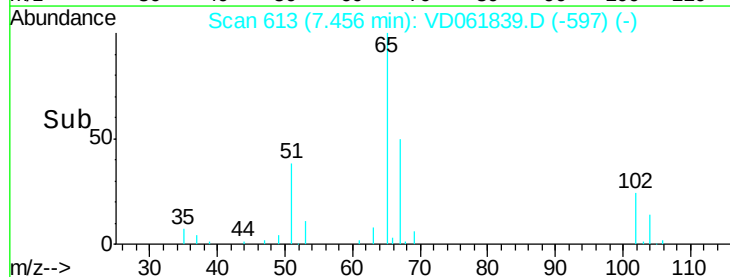
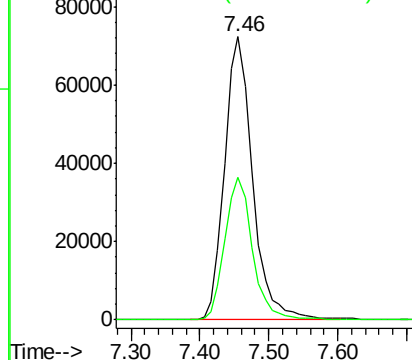
Ion Ratio Lower Upper

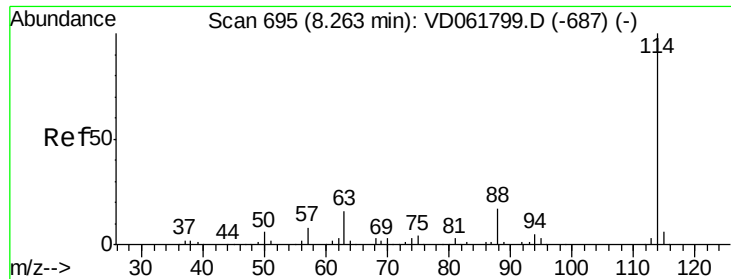
65 100

67 50.3 0.0 98.0



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

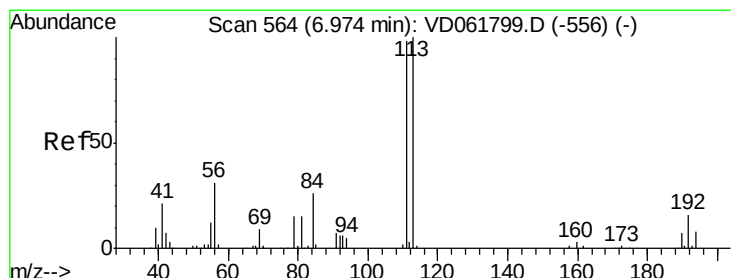
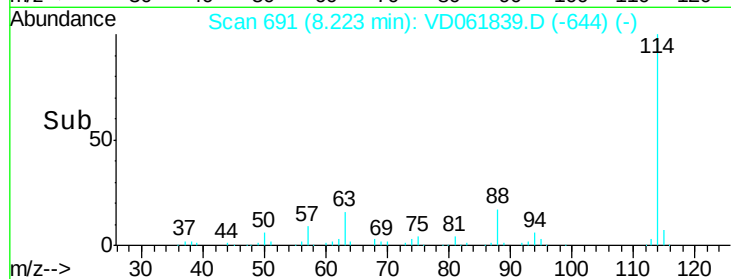
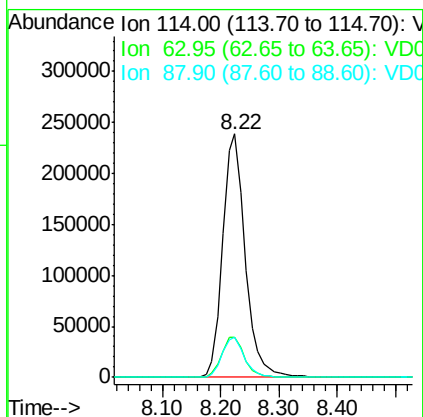
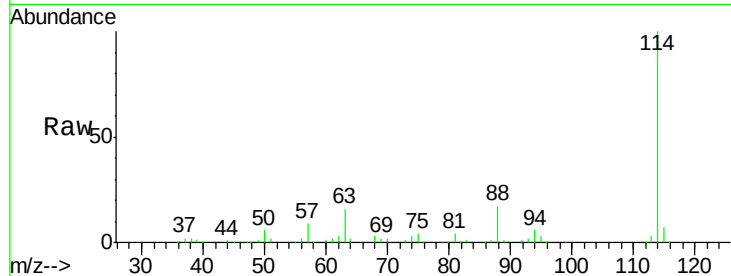




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 691
 Delta R.T. -0.04 min
 Lab File: VD061839.D
 Acq: 17 Apr 2019 6:59

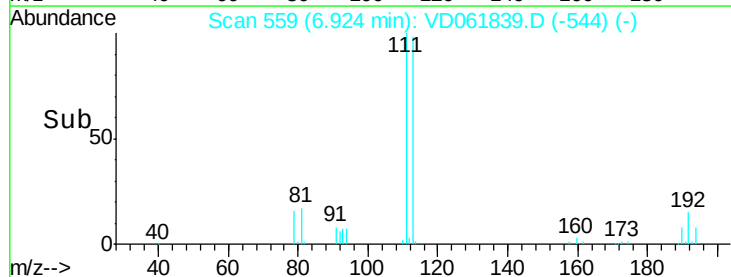
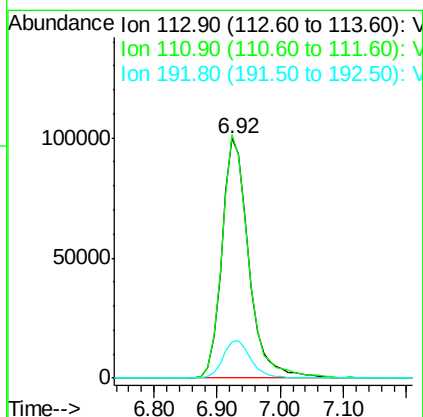
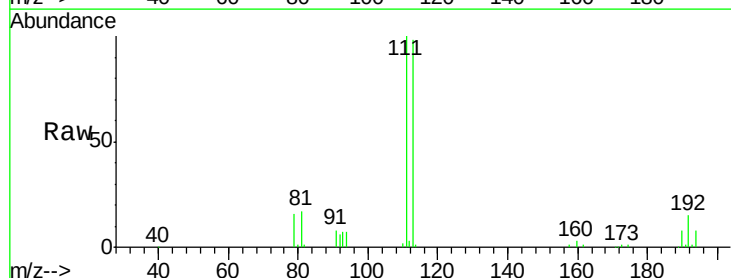
Instrument :
 MSVOA_D
 ClientSampleId :

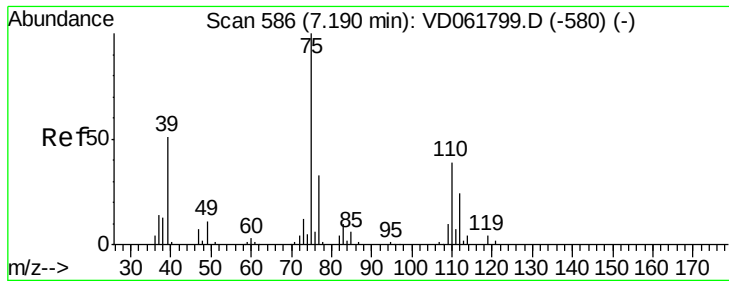
Tot Ion:114 Resp: 640757
 Ion Ratio Lower Upper
 114 100
 63 16.4 0.0 32.4
 88 16.6 0.0 33.6



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.92 min Scan# 559
 Delta R.T. -0.05 min
 Lab File: VD061839.D
 Acq: 17 Apr 2019 6:59

Tgt Ion:113 Resp: 294059
 Ion Ratio Lower Upper
 113 100
 111 101.7 78.5 117.7
 192 15.3 13.0 19.4

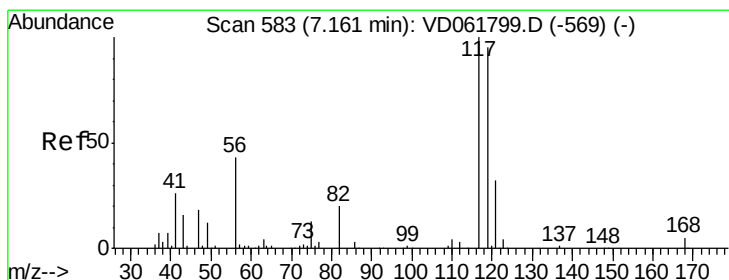
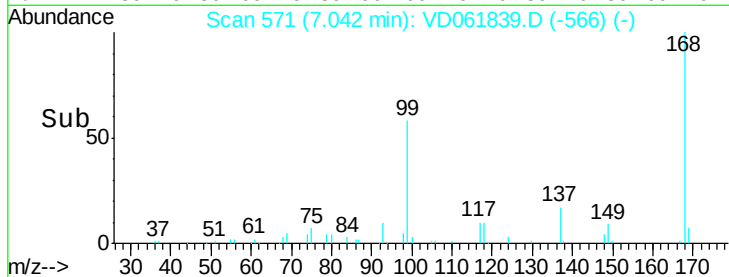
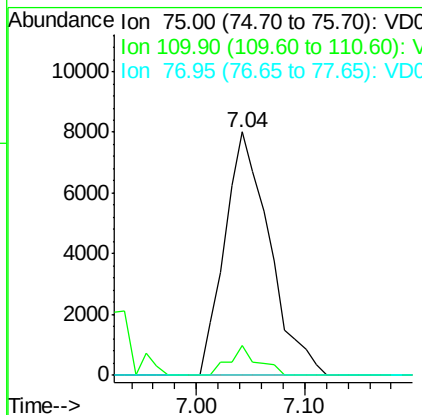
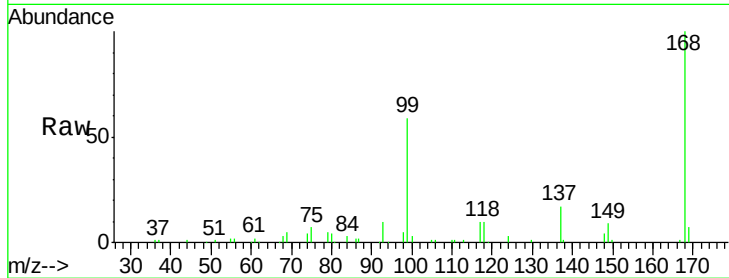




#36
 1,1-Dichloropropene
 Concen: 4.411 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.15 min
 Lab File: VD061839.D
 Acq: 17 Apr 2019 6:59

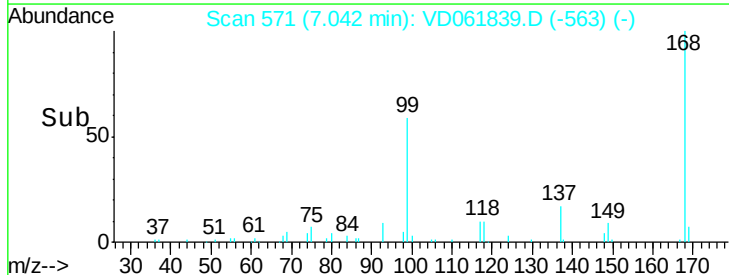
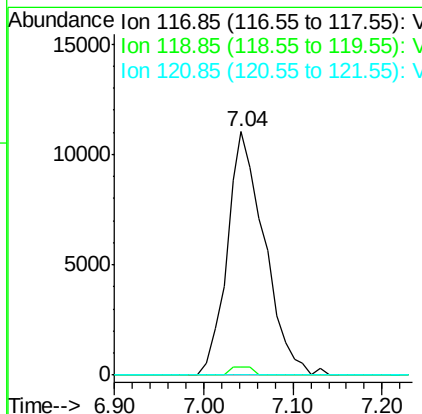
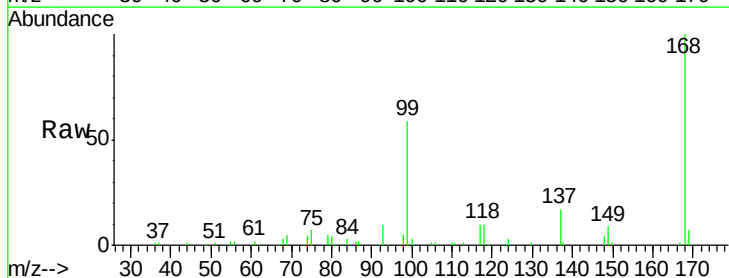
Instrument :
 MSVOA_D
 ClientSampled :

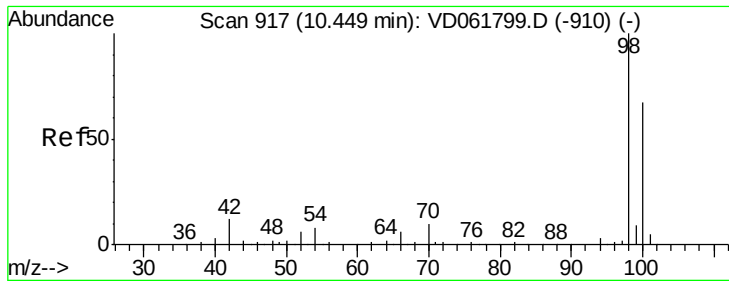
Tot Ion	Ratio	Lower	Upper
75	100		
110	12.0	19.1	57.1#
77	0.0	25.6	38.4#



#38
 Carbon Tetrachloride
 Concen: 4.863 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.12 min
 Lab File: VD061839.D
 Acq: 17 Apr 2019 6:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.3	75.8	113.8#
121	0.0	25.9	38.9#

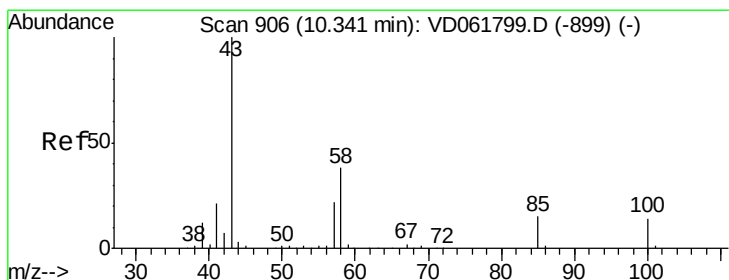
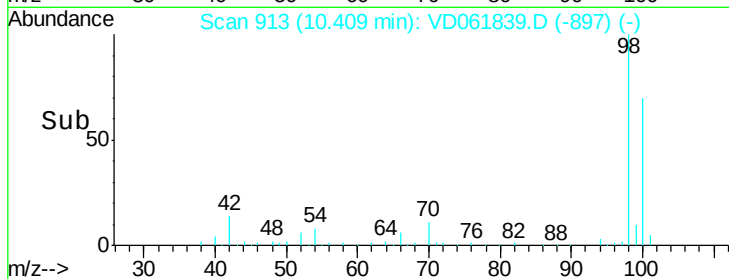
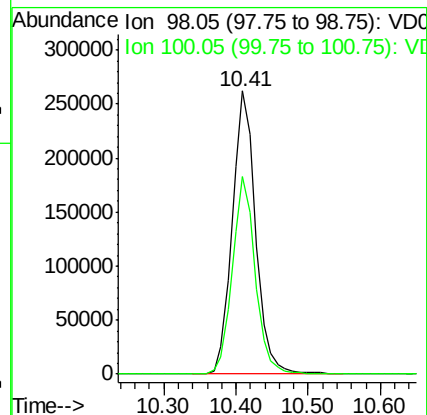
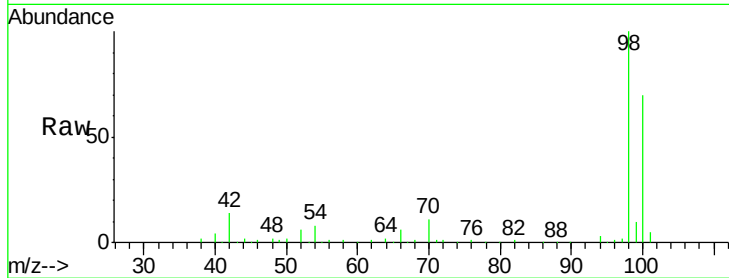




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.04 min
Lab File: VD061839.D
Acq: 17 Apr 2019 6:59

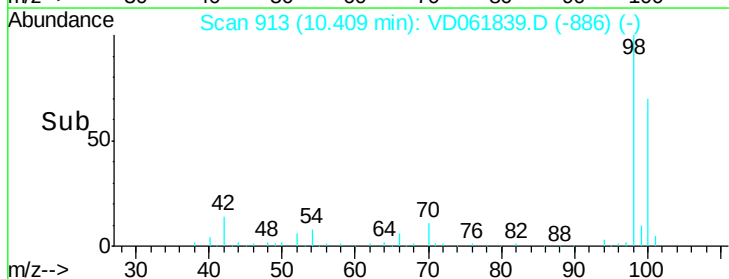
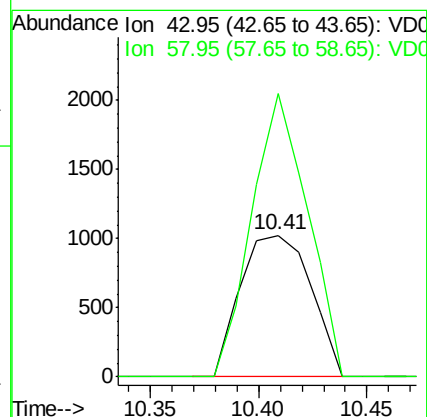
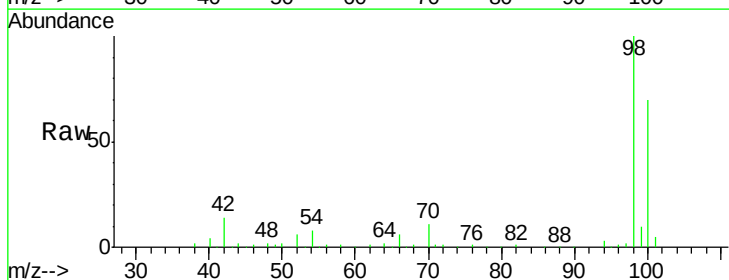
Instrument :
MSVOA_D
ClientSampled :

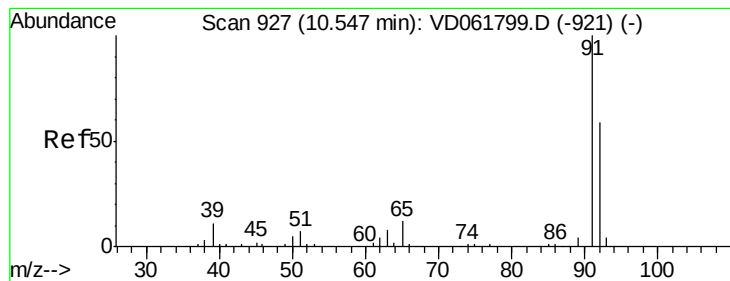
Tot Ion: 98 Resp: 589677
Ion Ratio Lower Upper
98 100
100 70.0 53.8 80.8



#51
4-Methyl-2-Pentanone
Concen: 1.209 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.07 min
Lab File: VD061839.D
Acq: 17 Apr 2019 6:59

Tgt Ion: 43 Resp: 2332
Ion Ratio Lower Upper
43 100
58 199.9 30.4 45.6#





#52

Toluene

Concen: 1.692 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.04 min

Lab File: VD061839.D

Acq: 17 Apr 2019 6:59

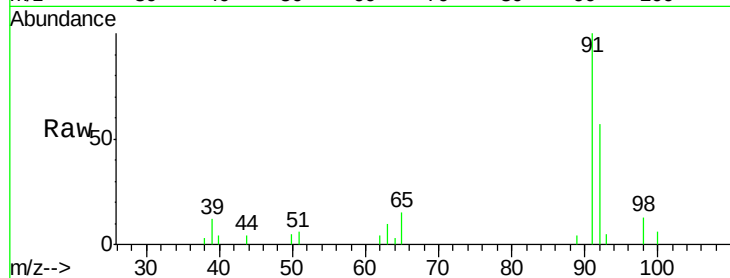
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 92 Resp: 13632

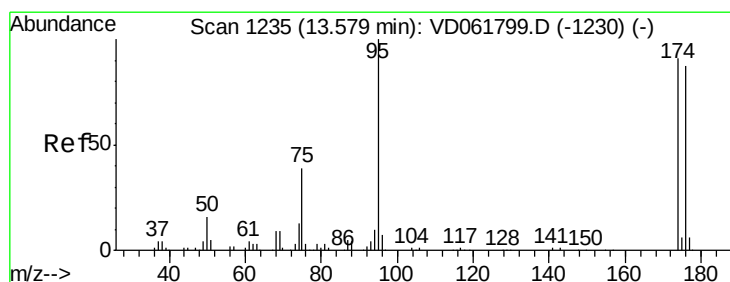
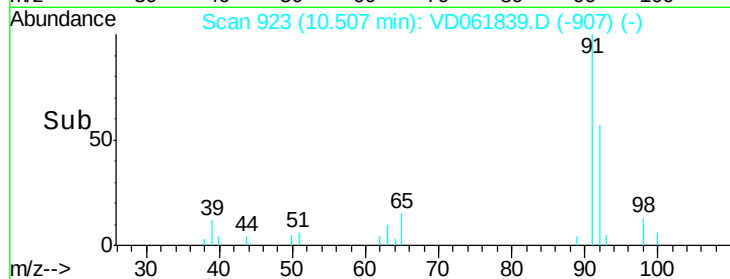
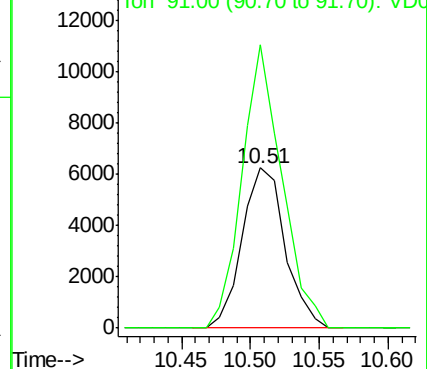
Ion Ratio Lower Upper

92 100

91 176.7 136.6 204.8



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: 13.55 min Scan# 1232

Delta R.T. -0.03 min

Lab File: VD061839.D

Acq: 17 Apr 2019 6:59

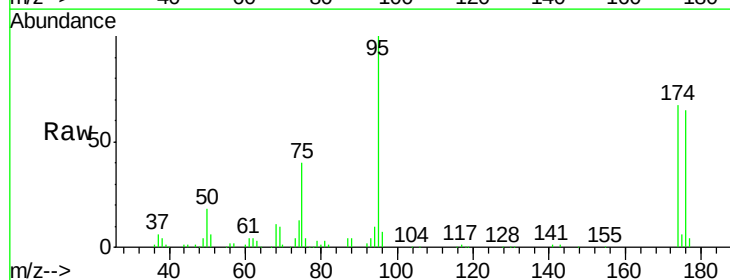
Tgt Ion: 95 Resp: 264740

Ion Ratio Lower Upper

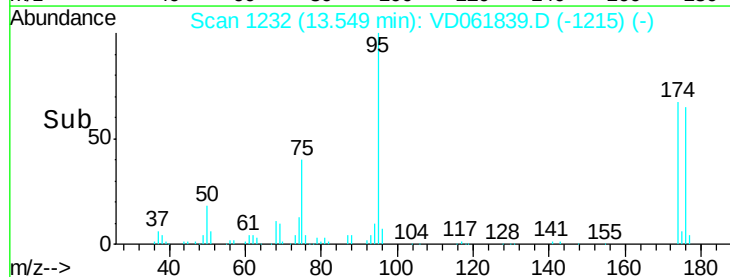
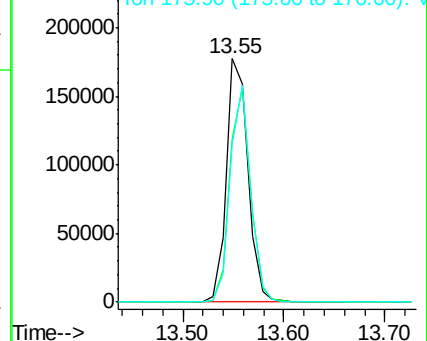
95 100

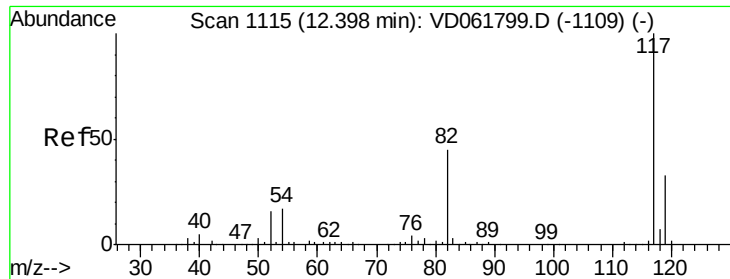
174 66.8 0.0 181.8

176 64.8 0.0 174.4



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

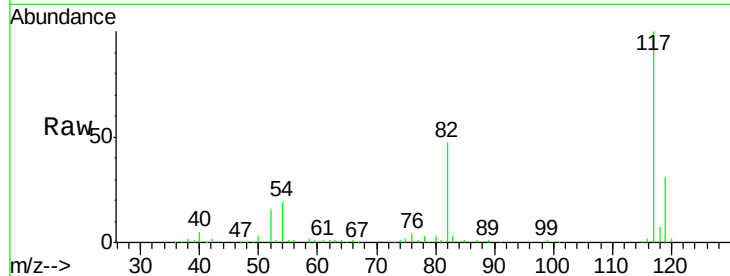




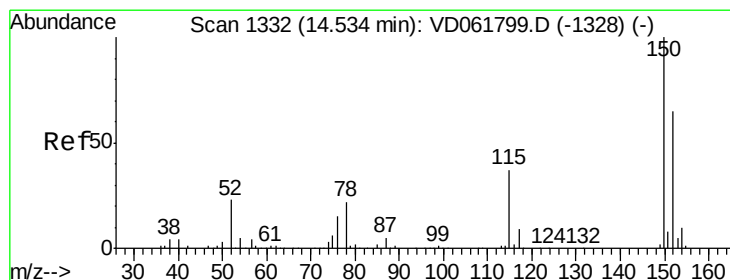
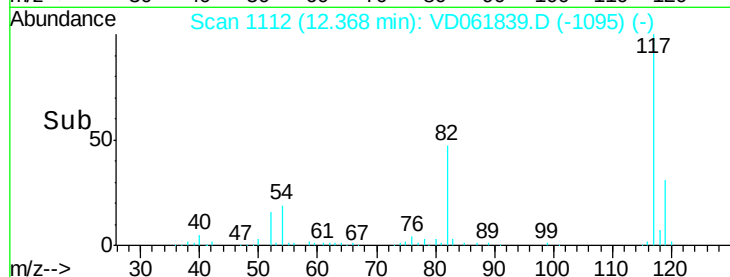
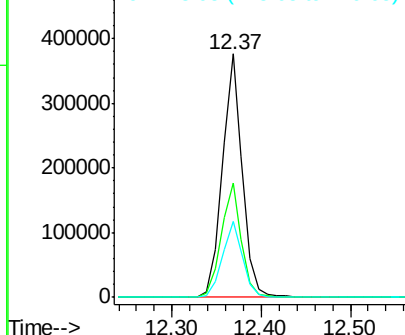
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.03 min
Lab File: VD061839.D
Acq: 17 Apr 2019 6:59

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 591849
Ion Ratio Lower Upper
117 100
82 46.9 36.2 54.2
119 31.2 26.2 39.4

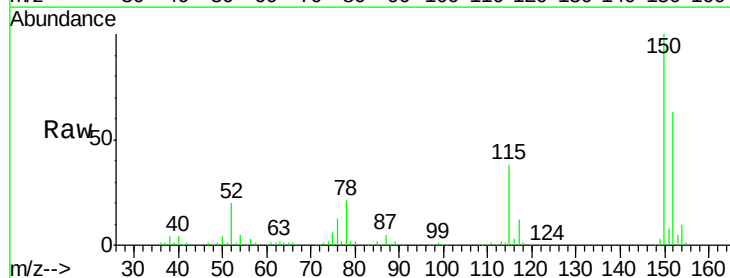


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

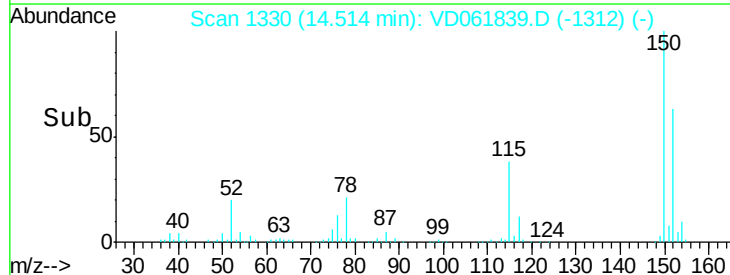
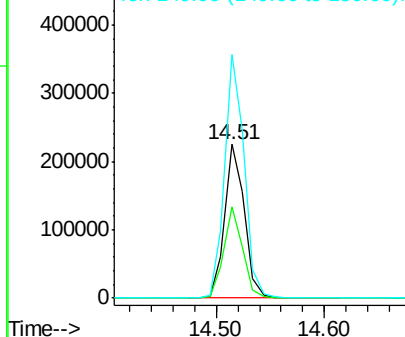


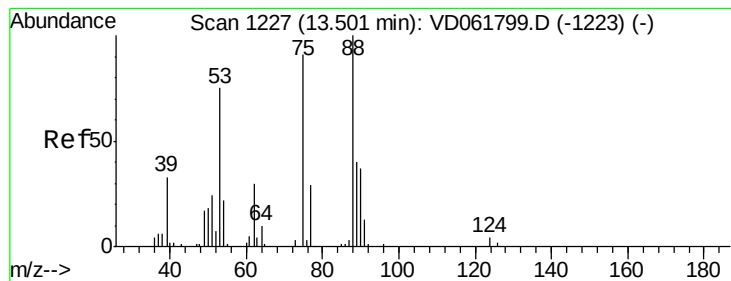
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.02 min
Lab File: VD061839.D
Acq: 17 Apr 2019 6:59

Tgt Ion:152 Resp: 284201
Ion Ratio Lower Upper
152 100
115 59.7 30.9 92.7
150 158.2 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: 83.715 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.05 min

Lab File: VD061839.D

Acq: 17 Apr 2019 6:59

Instrument :

MSVOA_D

ClientSampleId :

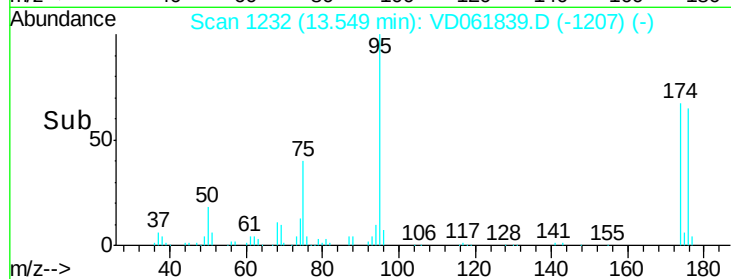
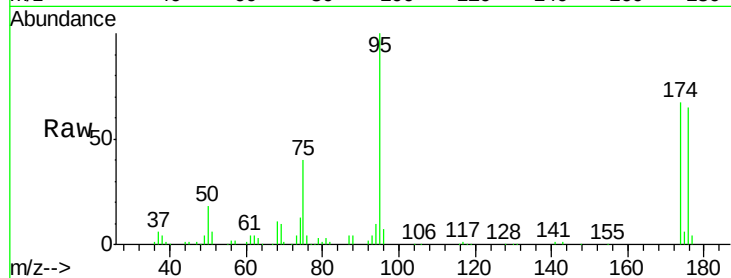
Tot Ion: 75 Resp: 104176

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

