

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012720\
 Data File : VD064969.D
 Acq On : 27 Jan 2020 17:51
 Operator : VA/SY
 Sample : L1242-13RE
 Misc : 5.10G/5.00ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 27 22:31:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	417403	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	687981	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	642145	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	281603	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	227405	56.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.60%	
35) Dibromofluoromethane	7.92	113	111883	25.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	51.76%	
50) Toluene-d8	10.34	98	824237	49.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.80%	
62) 4-Bromofluorobenzene	12.64	95	268031	52.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.98%	

Target Compounds

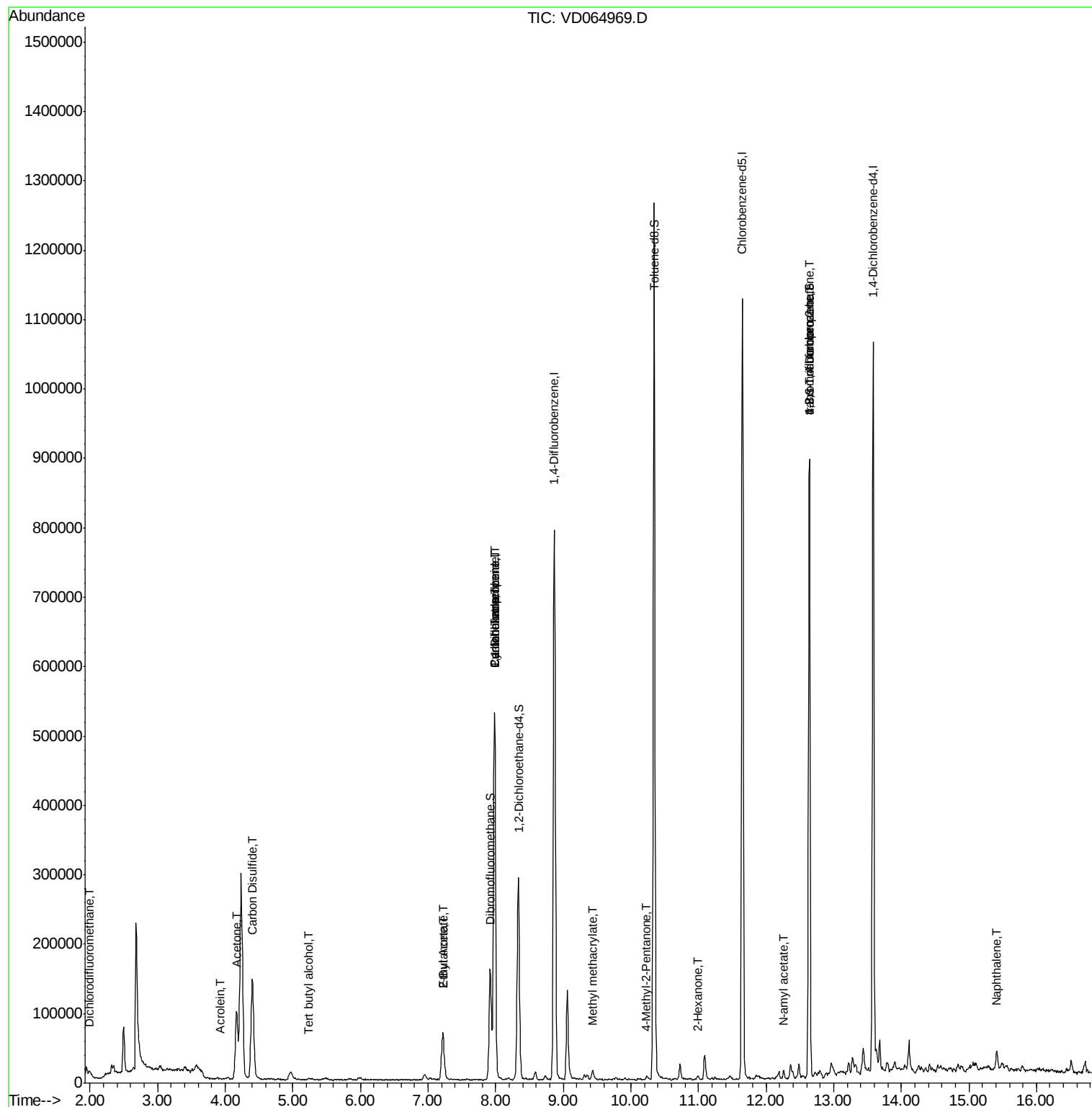
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	3791	1.206	ug/l	92
11) Tert butyl alcohol	5.23	59	1030	4.655	ug/l #	72
13) Acrolein	3.93	56	360	1.298	ug/l #	54
16) Acetone	4.17	43	177585	182.080	ug/l	99
17) Carbon Disulfide	4.40	76	305831	25.575	ug/l	98
20) Methylene Chloride	4.98	84	8706	Below Cal	#	79
25) 2-Butanone	7.23	43	45873	42.409	ug/l	92
31) Cyclohexane	7.98	56	9825	1.409	ug/l #	24
36) 1,1-Dichloropropene	7.98	75	30553	4.605	ug/l #	51
37) Ethyl Acetate	7.23	43	45873	16.740	ug/l #	77
38) Carbon Tetrachloride	7.98	117	40816	5.821	ug/l #	19
48) Methyl methacrylate	9.43	41	4406	1.839	ug/l #	47
51) 4-Methyl-2-Pentanone	10.24	43	4225	1.622	ug/l	92
59) 2-Hexanone	11.00	43	4688	2.610	ug/l	84
74) N-amyl acetate	12.26	43	6882	1.598	ug/l #	53
76) 1,2,3-Trichloropropane	12.64	75	145415	62.214	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	145415	132.842	ug/l #	9
95) Naphthalene	15.41	128	24856	2.902	ug/l	97

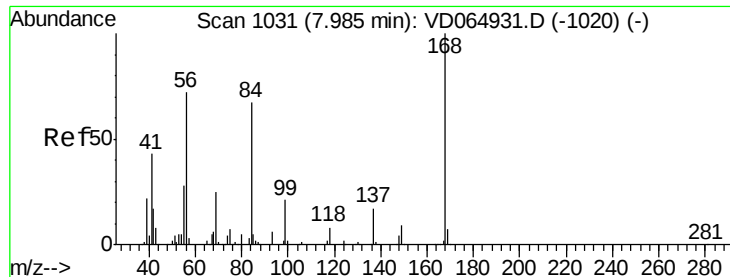
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064969.D

Acq: 27 Jan 2020 17:51

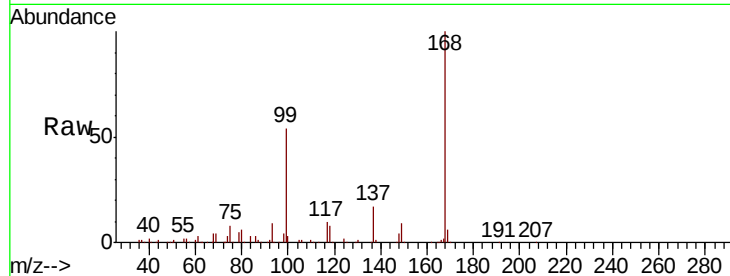
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 417403

Ion Ratio Lower Upper

168 100

99 54.0 43.3 64.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

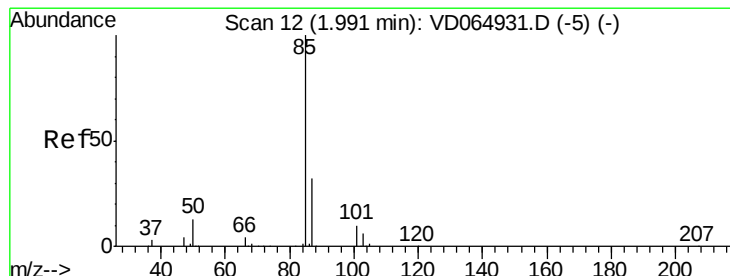
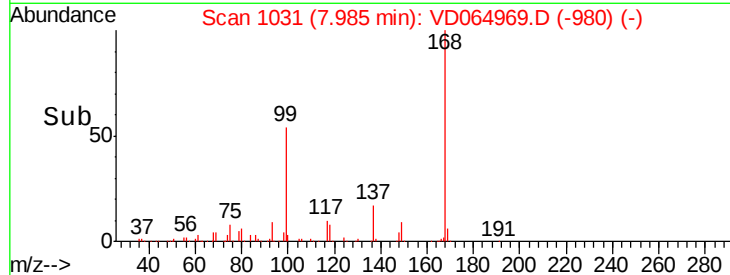
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.206 ug/l

RT: 1.99 min Scan# 12

Delta R.T. -0.00 min

Lab File: VD064969.D

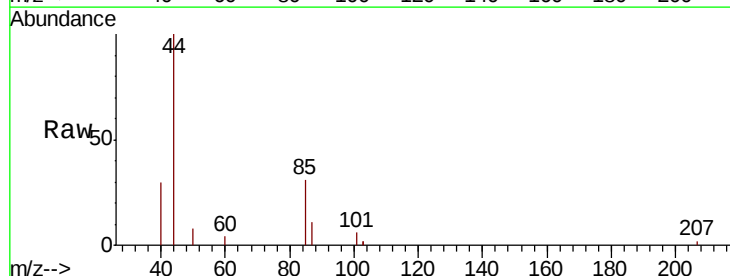
Acq: 27 Jan 2020 17:51

Tgt Ion: 85 Resp: 3791

Ion Ratio Lower Upper

85 100

87 36.0 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

3000

2500

2000

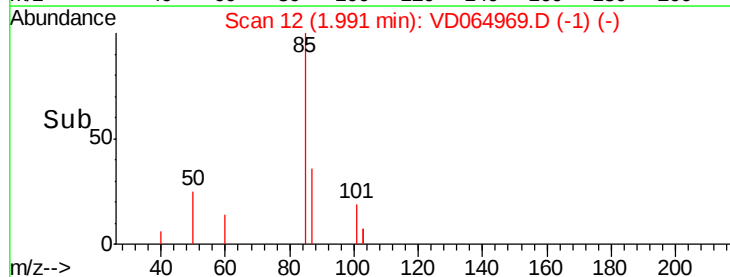
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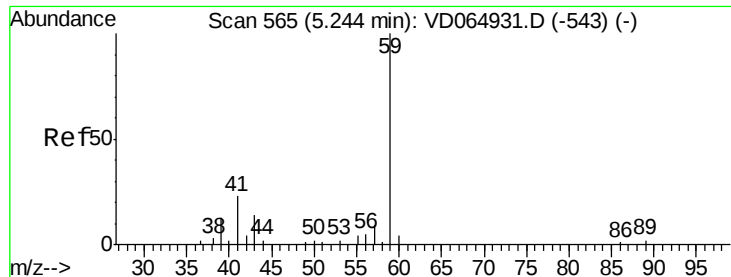
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500

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Time-->

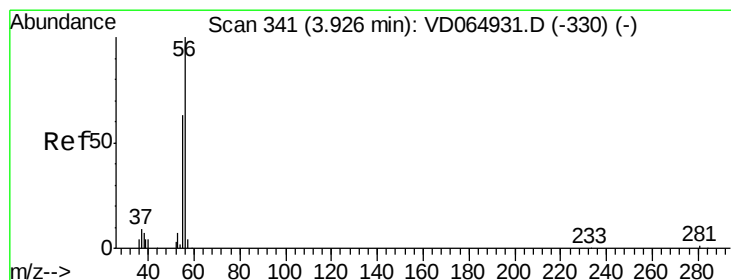
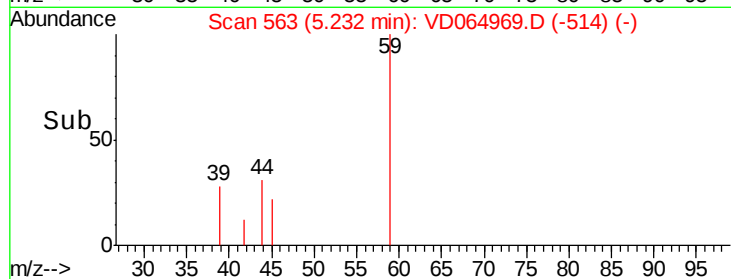
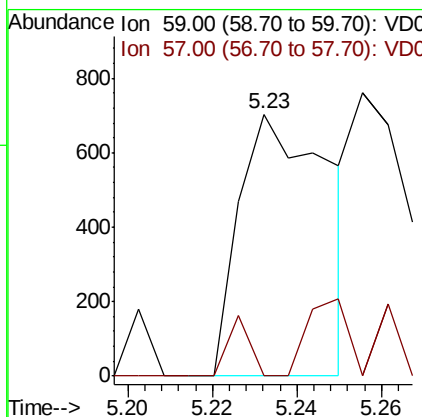
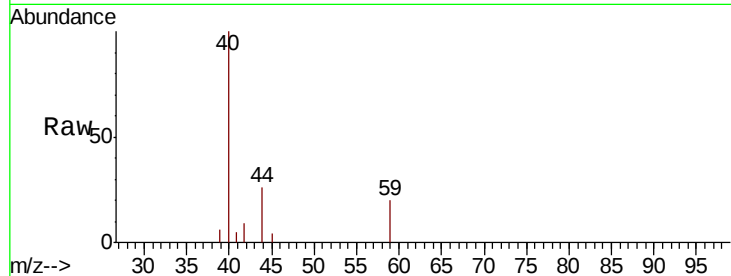




#11
Tert butyl alcohol
Concen: 4.655 ug/l
RT: 5.23 min Scan# 563
Delta R.T. -0.01 min
Lab File: VD064969.D
Acq: 27 Jan 2020 17:51

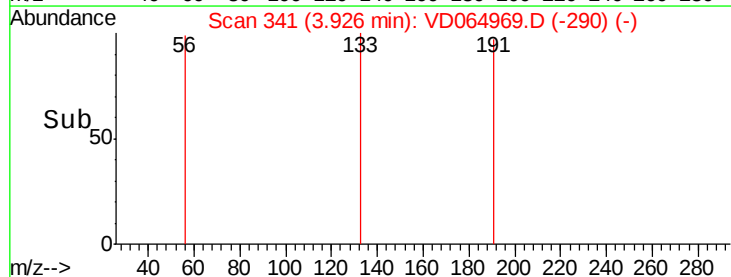
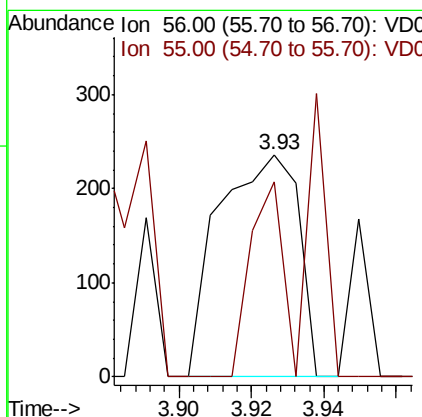
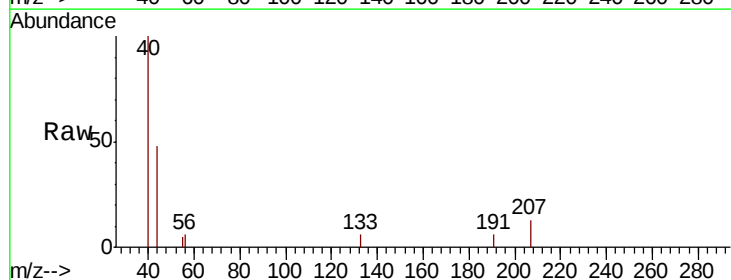
Instrument :
MSVOA_D
ClientSampled :

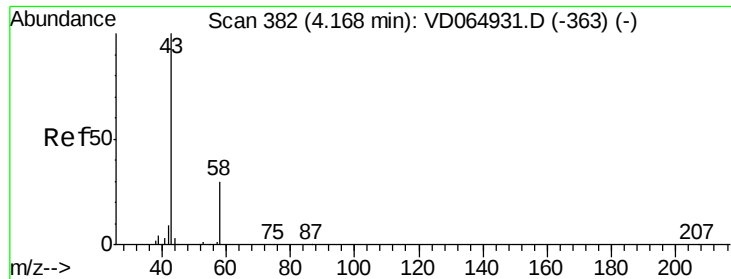
Tot Ion: 59 Resp: 1030
Ion Ratio Lower Upper
59 100
57 20.0 7.7 11.5#



#13
Acrolein
Concen: 1.298 ug/l
RT: 3.93 min Scan# 341
Delta R.T. -0.00 min
Lab File: VD064969.D
Acq: 27 Jan 2020 17:51

Tgt Ion: 56 Resp: 360
Ion Ratio Lower Upper
56 100
55 35.6 59.7 89.5#

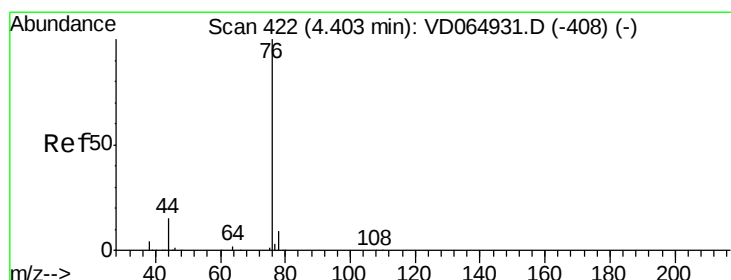
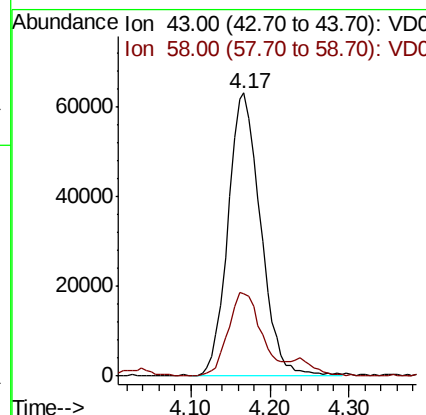
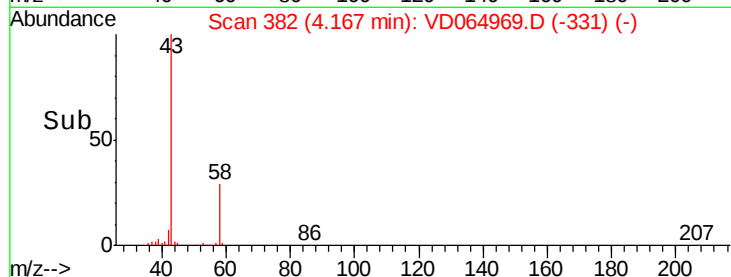
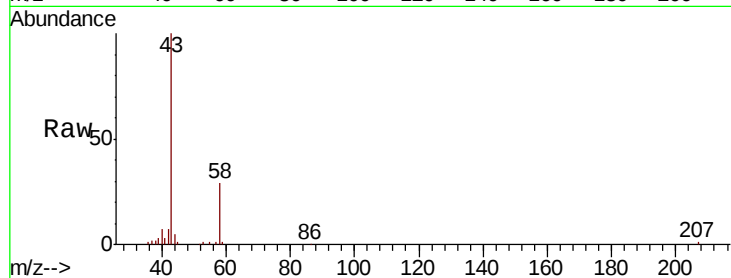




#16
Acetone
Concen: 182.080 ug/l
RT: 4.17 min Scan# 382
Delta R.T. 0.00 min
Lab File: VD064969.D
Acq: 27 Jan 2020 17:51

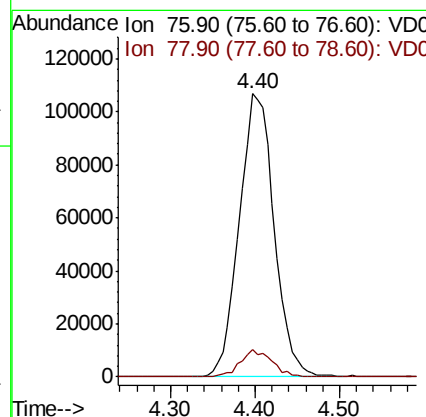
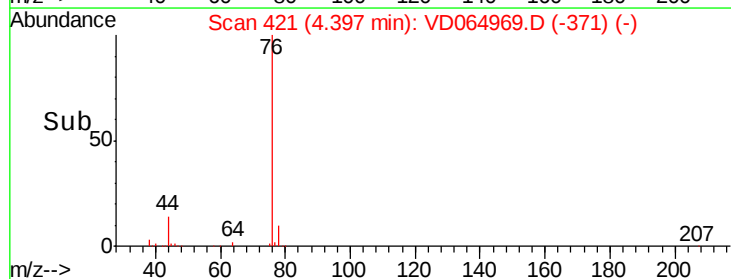
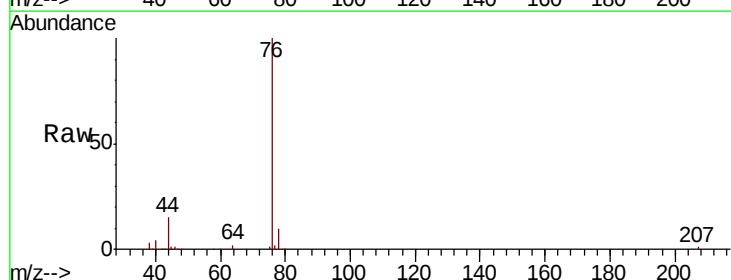
Instrument :
MSVOA_D
ClientSampleId :

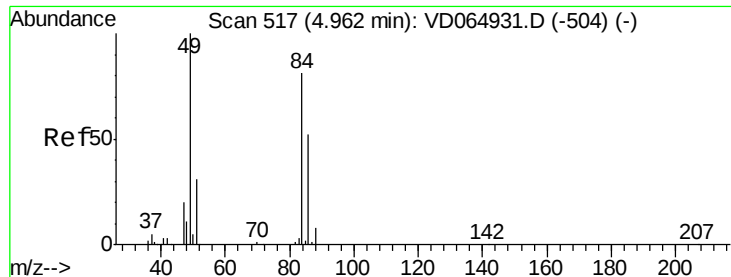
Tot Ion: 43 Resp: 177585
Ion Ratio Lower Upper
43 100
58 29.3 23.8 35.8



#17
Carbon Disulfide
Concen: 25.575 ug/l
RT: 4.40 min Scan# 421
Delta R.T. -0.01 min
Lab File: VD064969.D
Acq: 27 Jan 2020 17:51

Tgt Ion: 76 Resp: 305831
Ion Ratio Lower Upper
76 100
78 9.8 7.1 10.7

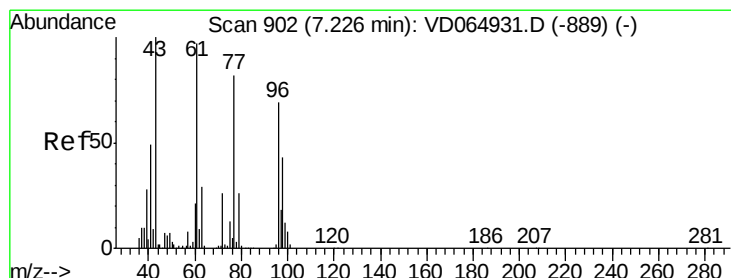
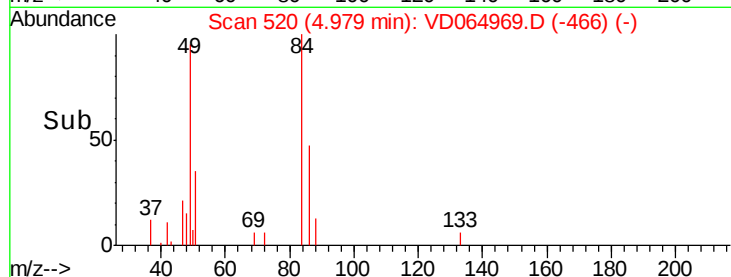
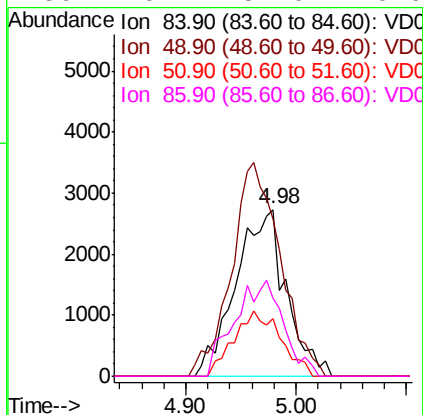
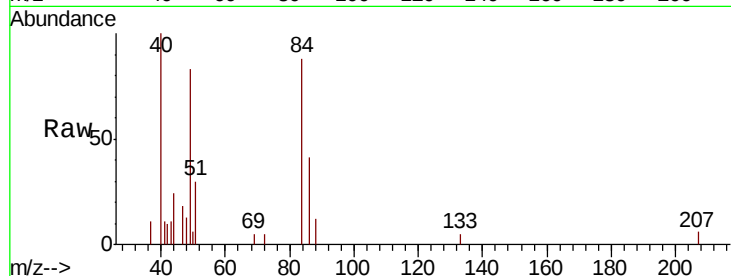




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.98 min Scan# 520
Delta R.T. 0.02 min
Lab File: VD064969.D
Acq: 27 Jan 2020 17:51

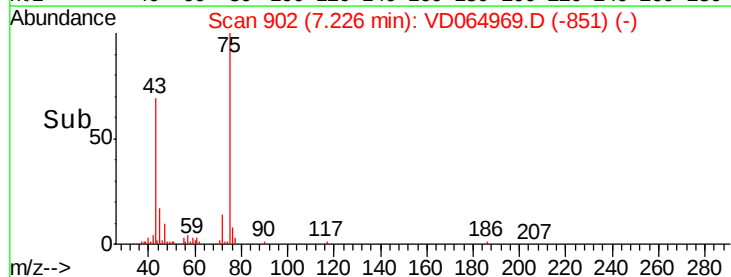
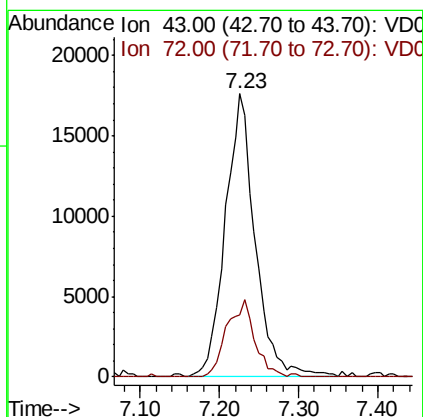
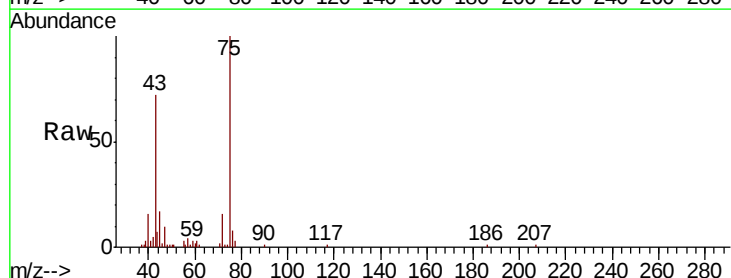
Instrument :
MSVOA_D
ClientSampleId :

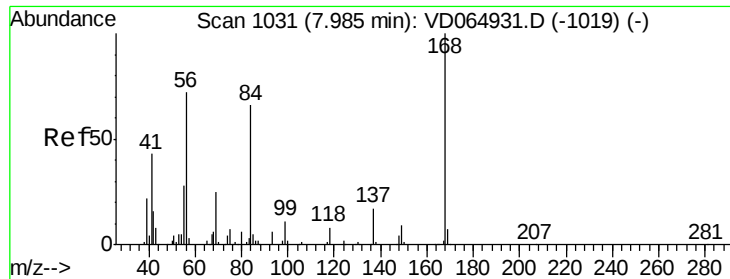
Tot Ion: 84 Resp: 8706
Ion Ratio Lower Upper
84 100
49 94.5 98.4 147.6#
51 34.6 30.8 46.2
86 46.7 51.0 76.6#



#25
2-Butanone
Concen: 42.409 ug/l
RT: 7.23 min Scan# 902
Delta R.T. -0.00 min
Lab File: VD064969.D
Acq: 27 Jan 2020 17:51

Tgt Ion: 43 Resp: 45873
Ion Ratio Lower Upper
43 100
72 21.7 20.6 31.0

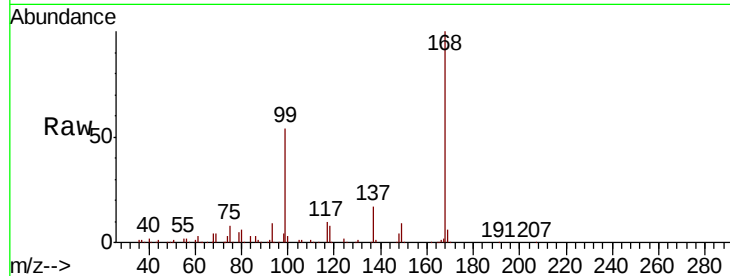




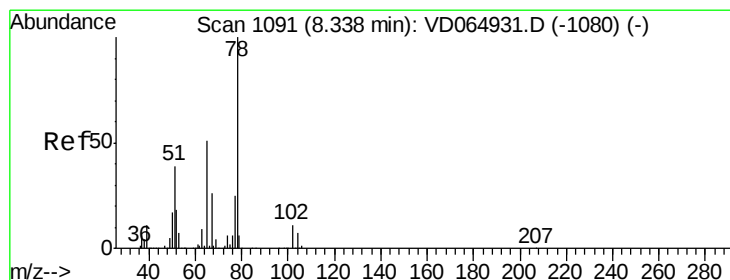
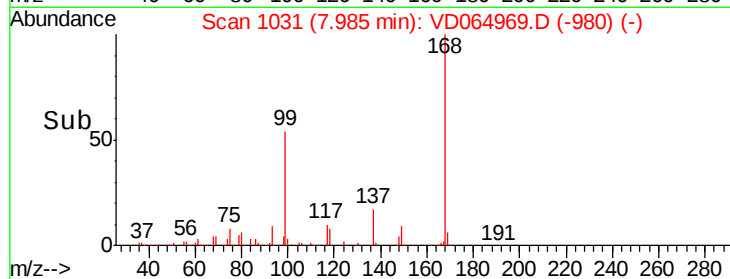
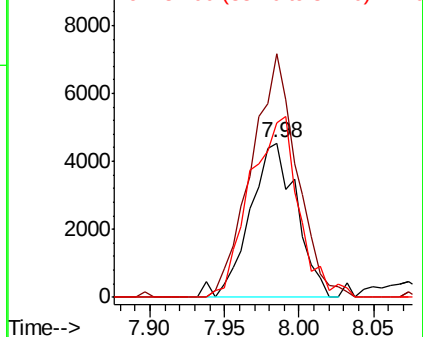
#31
Cvclohexane
Concen: 1.409 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD064969.D
Acq: 27 Jan 2020 17:51

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 9825
Ion Ratio Lower Upper
56 100
69 157.7 27.9 41.9#
84 113.2 72.8 109.2#

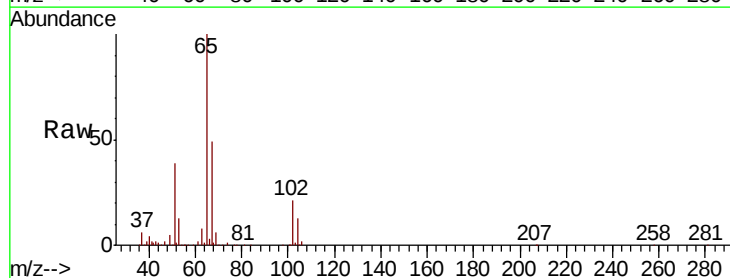


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

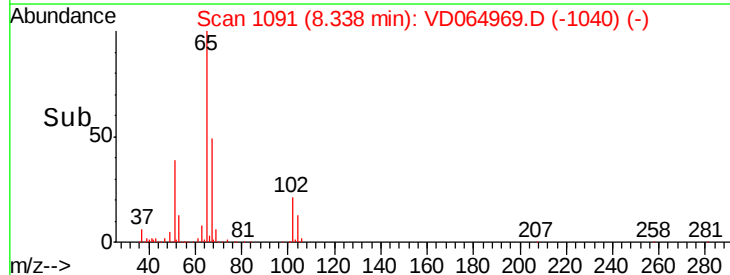
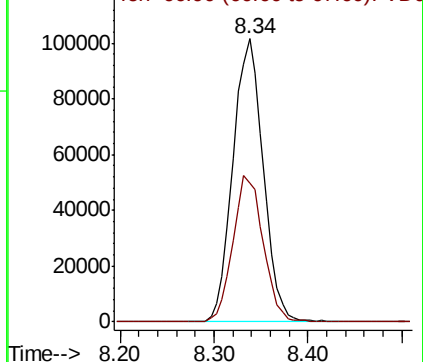


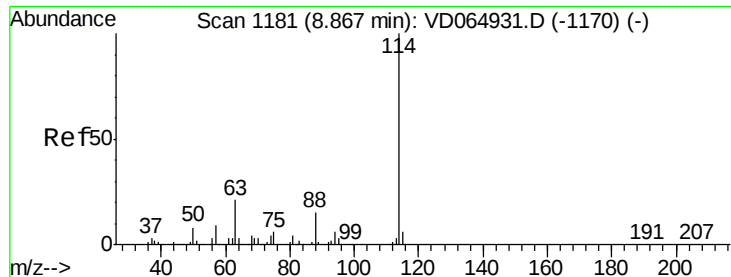
#33
1,2-Dichloroethane-d4
Concen: 56.797 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. -0.00 min
Lab File: VD064969.D
Acq: 27 Jan 2020 17:51

Tgt Ion: 65 Resp: 227405
Ion Ratio Lower Upper
65 100
67 51.8 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC

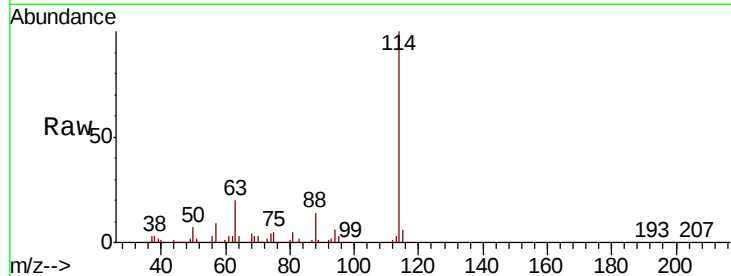




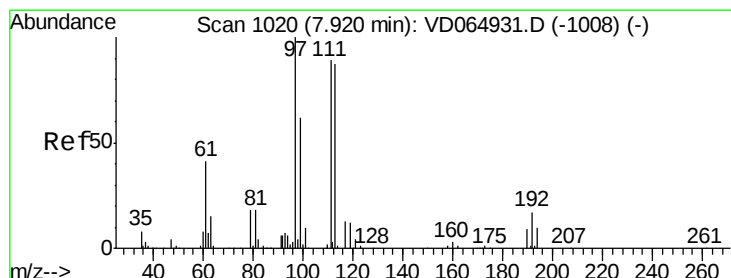
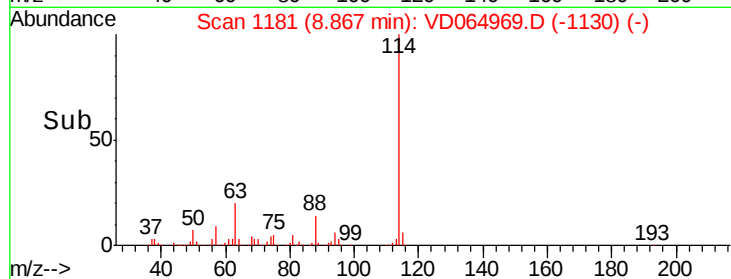
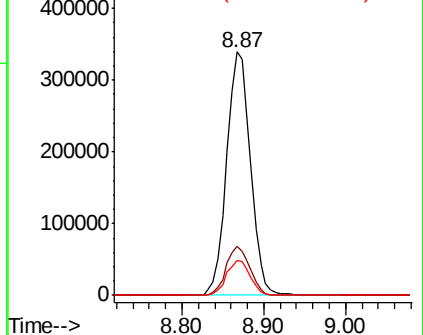
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD064969.D
 Acq: 27 Jan 2020 17:51

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 687981
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 42.0
 88 14.4 0.0 29.4

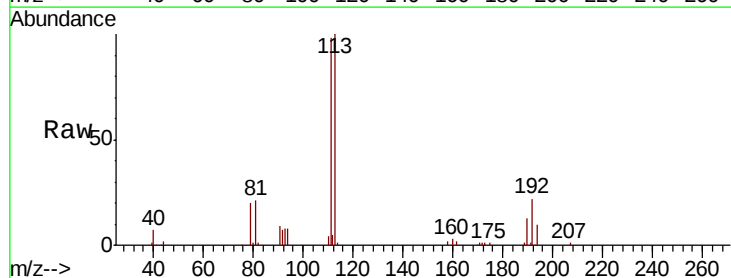


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

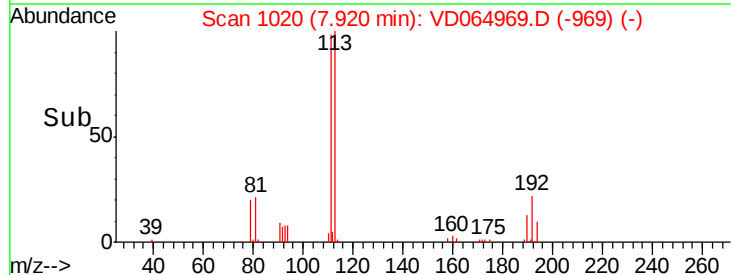
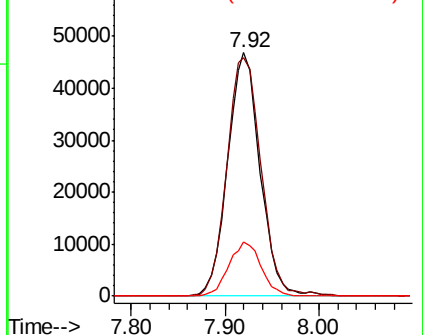


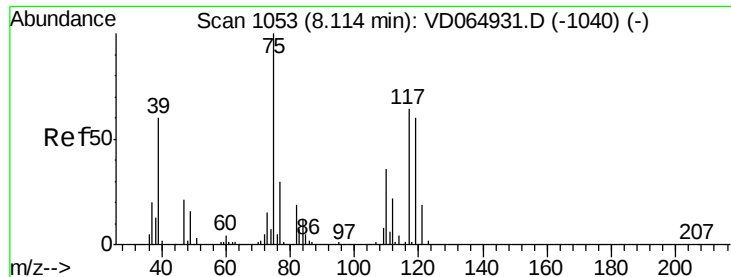
#35
 Dibromofluoromethane
 Concen: 25.879 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD064969.D
 Acq: 27 Jan 2020 17:51

Tgt Ion:113 Resp: 111883
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.4 123.6
 192 22.0 16.9 25.3



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

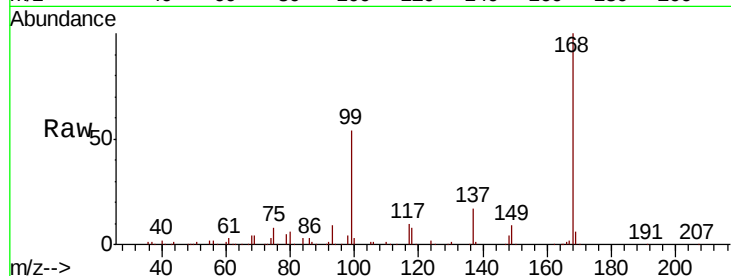




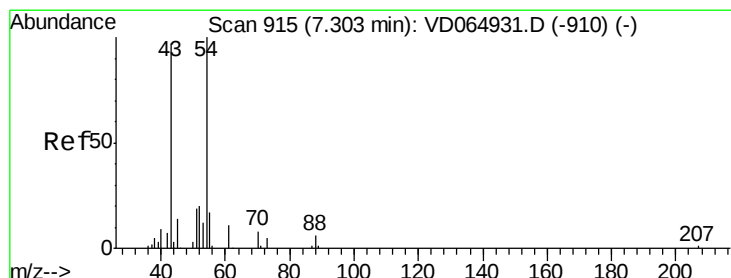
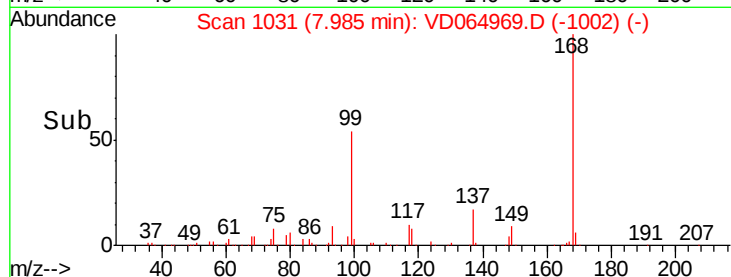
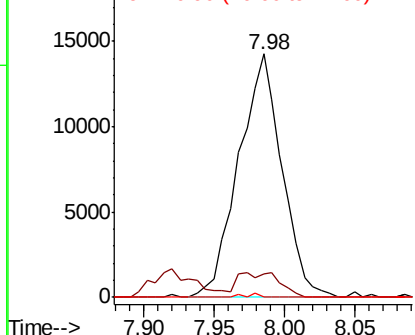
#36
 1,1-Dichloropropene
 Concen: 4.605 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064969.D
 Acq: 27 Jan 2020 17:51

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	10.1	17.3	52.0#
77	0.0	24.7	37.1#

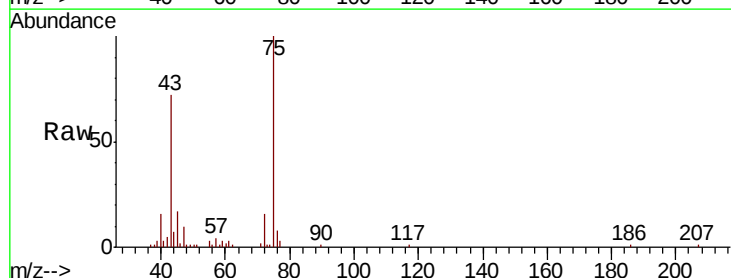


Abundance Ion 74.90 (74.60 to 75.60): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.90 (76.60 to 77.60): VDC

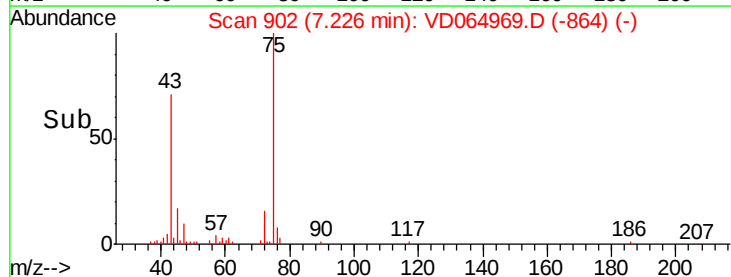
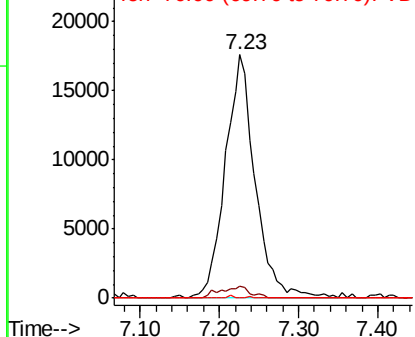


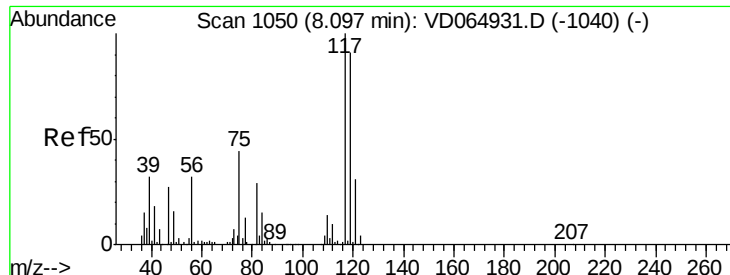
#37
 Ethyl Acetate
 Concen: 16.740 ug/l
 RT: 7.23 min Scan# 902
 Delta R.T. -0.08 min
 Lab File: VD064969.D
 Acq: 27 Jan 2020 17:51

Tgt Ion	Ratio	Lower	Upper
43	100		
61	4.8	11.0	16.4#
70	0.1	7.5	11.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC
 Ion 60.90 (60.60 to 61.60): VDC
 Ion 70.00 (69.70 to 70.70): VDC

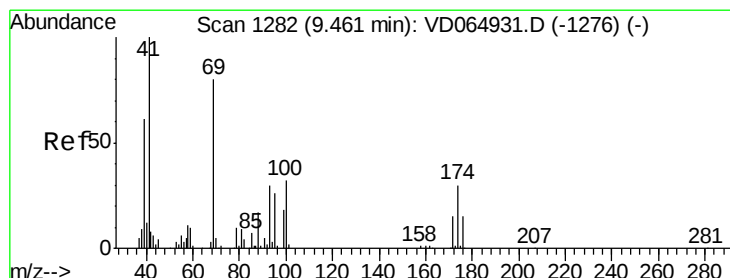
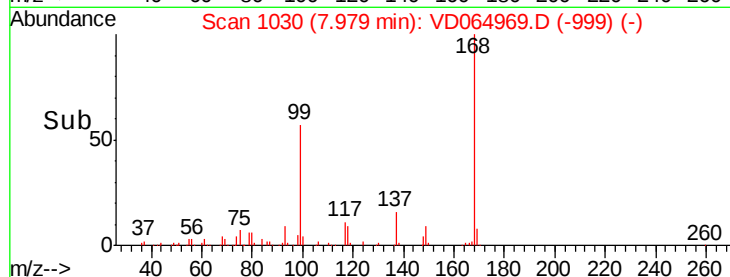
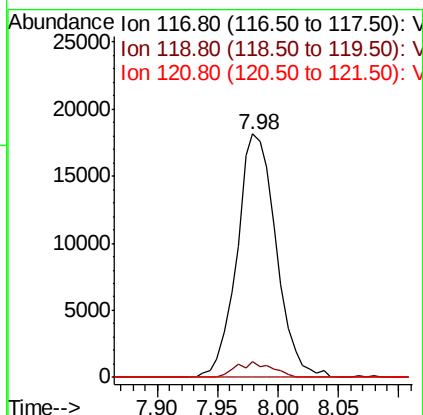
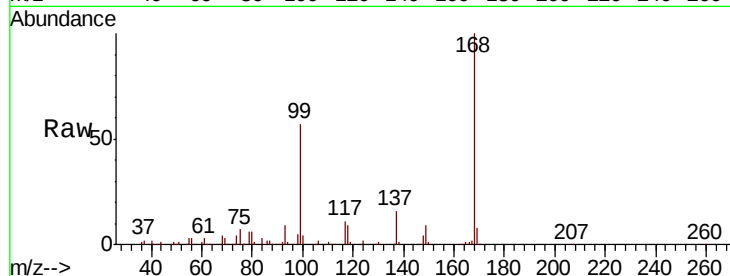




#38
Carbon Tetrachloride
Concen: 5.821 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD064969.D
Acq: 27 Jan 2020 17:51

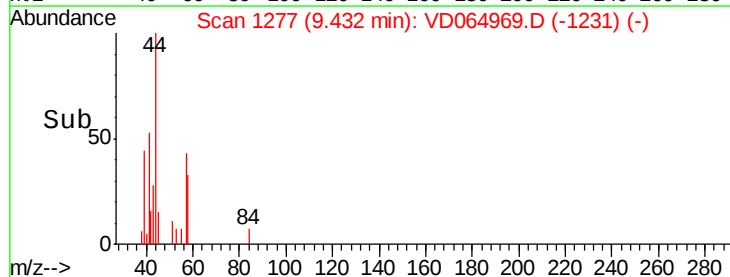
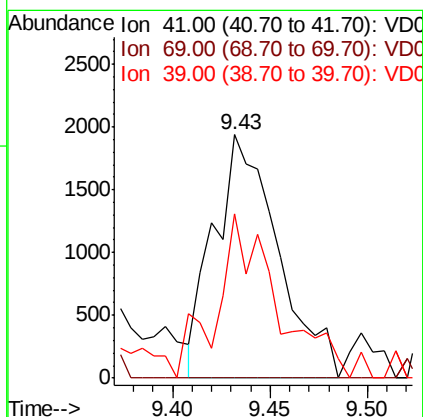
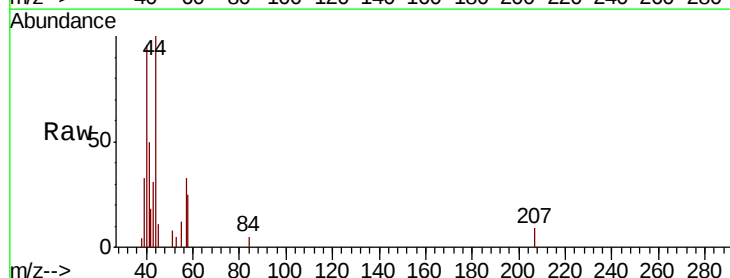
Instrument :
MSVOA_D
ClientSampled :

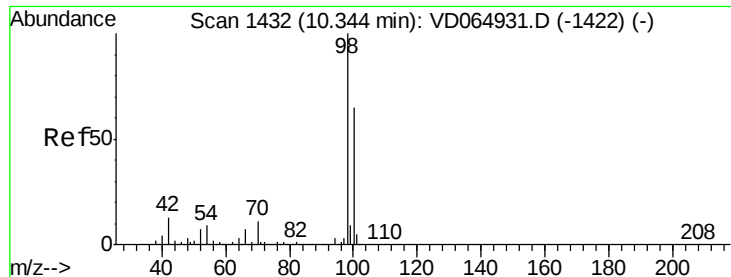
Tot Ion:117 Resp: 40816
Ion Ratio Lower Upper
117 100
119 6.6 73.2 109.8#
121 0.0 24.4 36.6#



#48
Methyl methacrylate
Concen: 1.839 ug/l
RT: 9.43 min Scan# 1277
Delta R.T. -0.03 min
Lab File: VD064969.D
Acq: 27 Jan 2020 17:51

Tgt Ion: 41 Resp: 4406
Ion Ratio Lower Upper
41 100
69 0.0 65.8 98.8#
39 63.3 49.4 74.0





#50

Toluene-d8

Concen: 49.395 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD064969.D

Acq: 27 Jan 2020 17:51

Instrument :

MSVOA_D

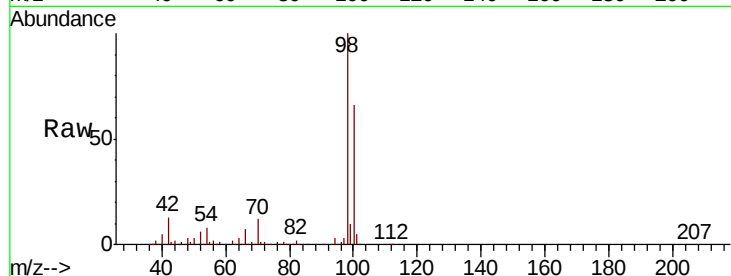
ClientSampleId :

Tot Ion: 98 Resp: 824237

Ion Ratio Lower Upper

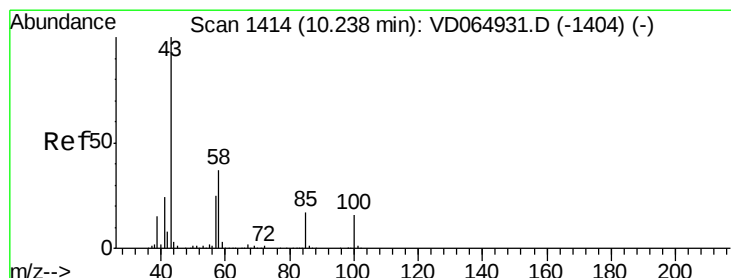
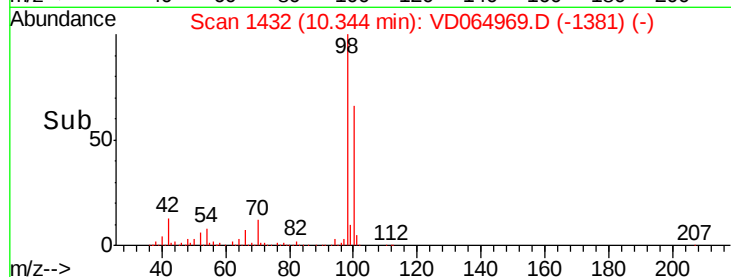
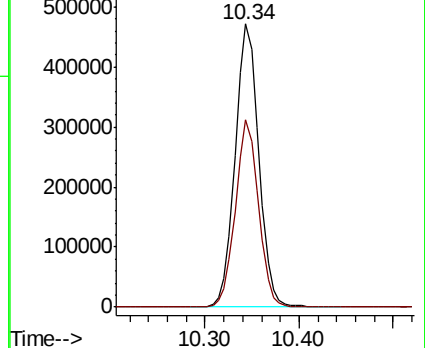
98 100

100 64.4 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.622 ug/l

RT: 10.24 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VD064969.D

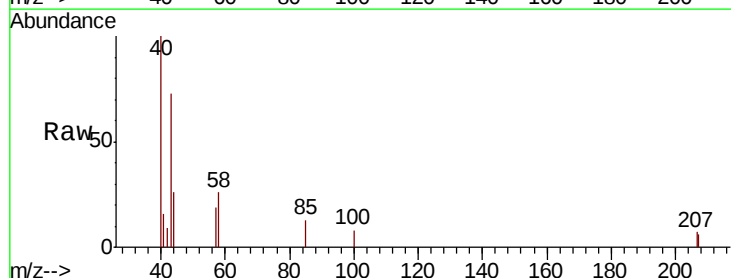
Acq: 27 Jan 2020 17:51

Tgt Ion: 43 Resp: 4225

Ion Ratio Lower Upper

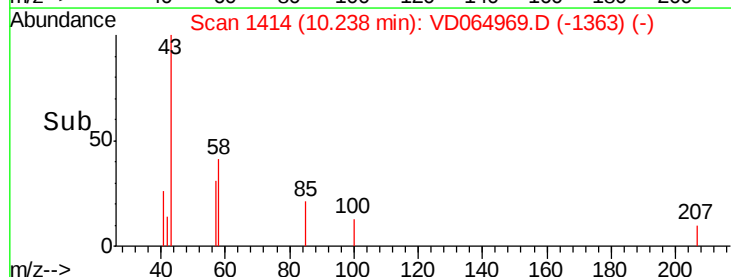
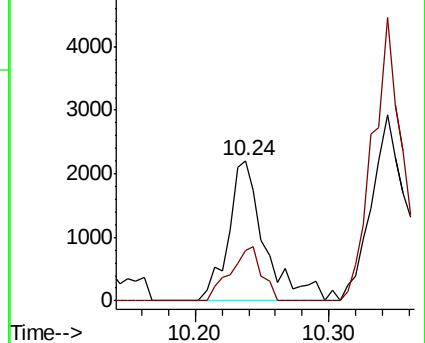
43 100

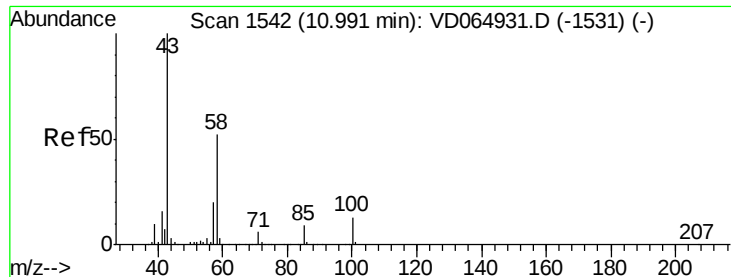
58 32.9 30.4 45.6



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

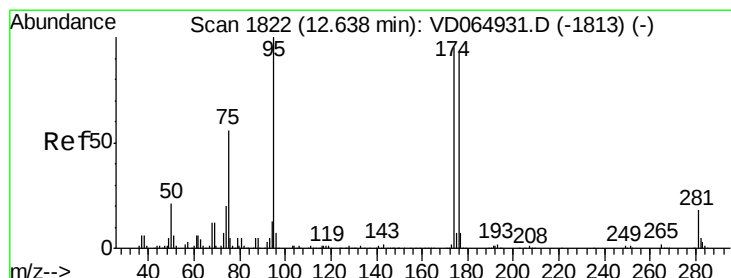
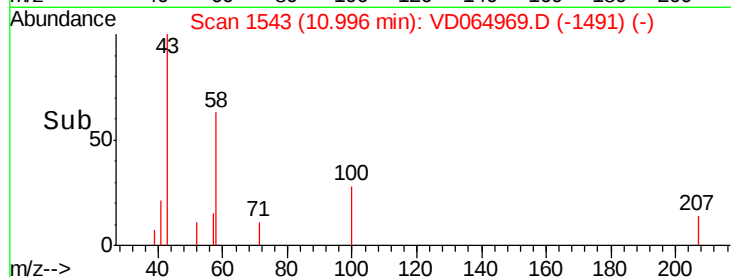
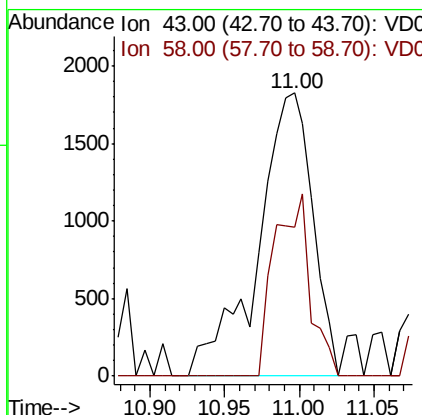
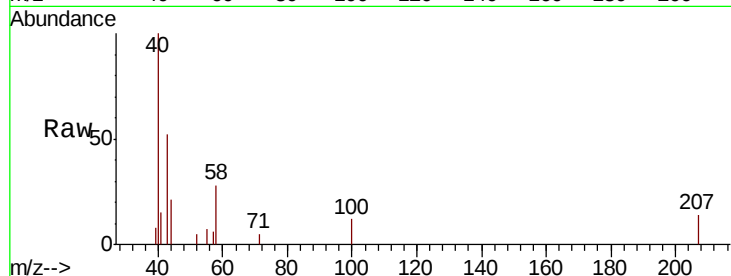




#59
2-Hexanone
Concen: 2.610 ug/l
RT: 11.00 min Scan# 1543
Delta R.T. 0.01 min
Lab File: VD064969.D
Acq: 27 Jan 2020 17:51

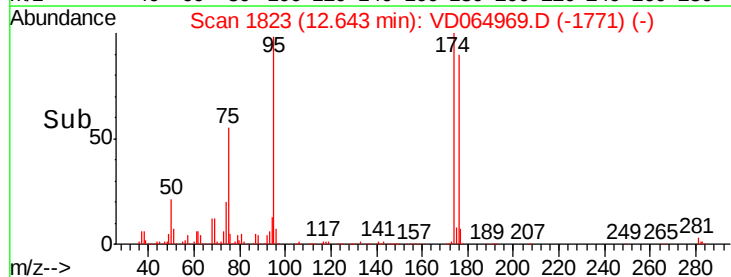
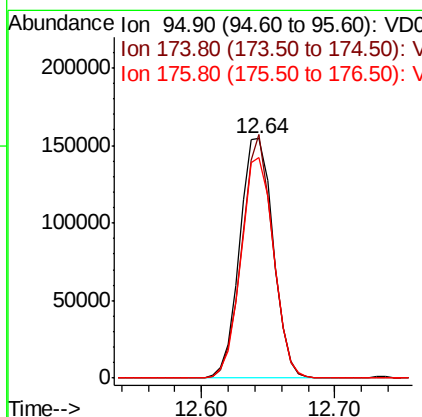
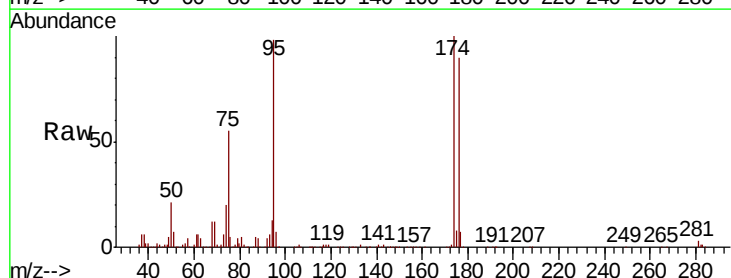
Instrument :
MSVOA_D
ClientSampleId :

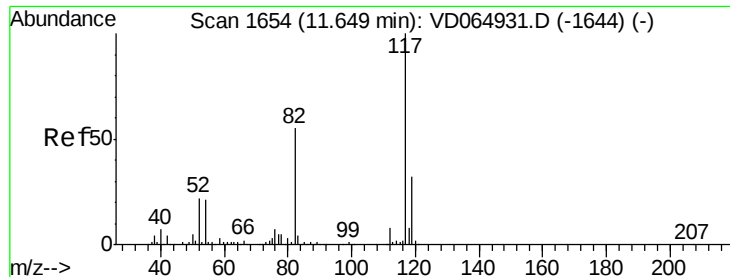
Tot Ion: 43 Resp: 4688
Ion Ratio Lower Upper
43 100
58 41.9 26.5 79.4



#62
4-Bromofluorobenzene
Concen: 52.489 ug/l
RT: 12.64 min Scan# 1823
Delta R.T. 0.01 min
Lab File: VD064969.D
Acq: 27 Jan 2020 17:51

Tgt Ion: 95 Resp: 268031
Ion Ratio Lower Upper
95 100
174 92.8 0.0 186.8
176 89.8 0.0 183.4

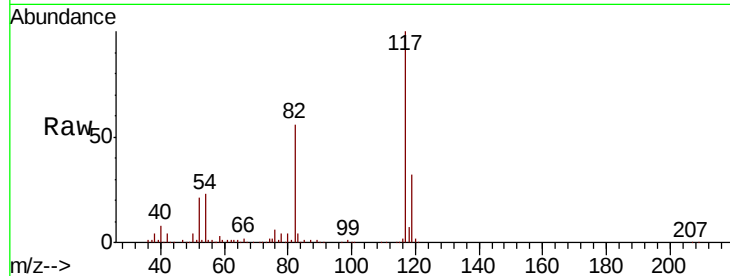




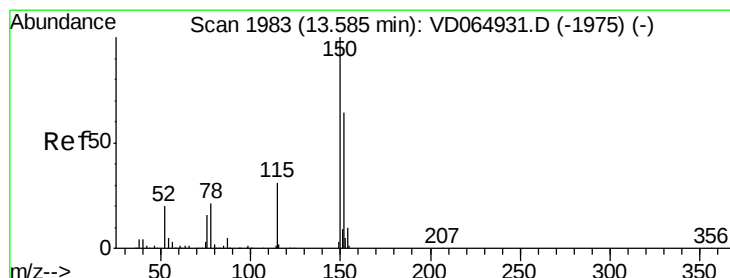
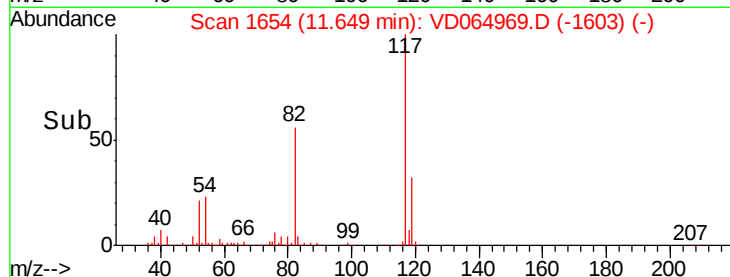
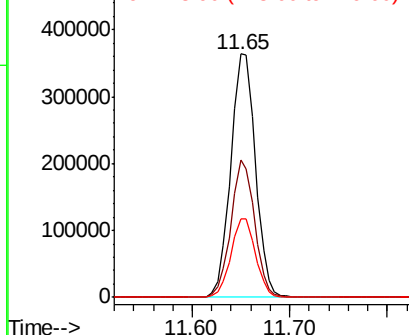
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064969.D
Acq: 27 Jan 2020 17:51

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 642145
Ion Ratio Lower Upper
117 100
82 56.2 43.6 65.4
119 32.4 25.2 37.8

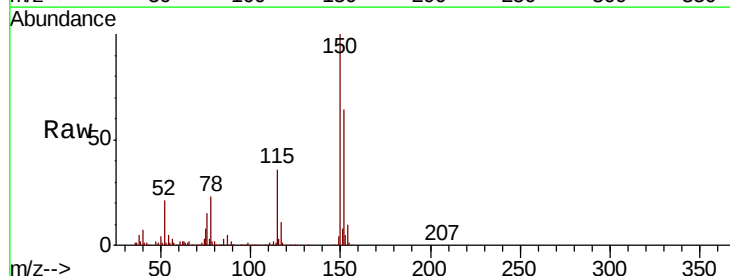


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

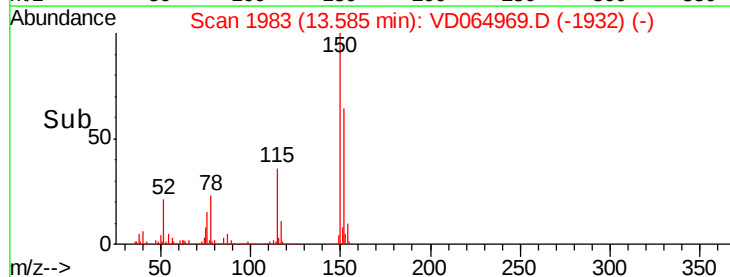
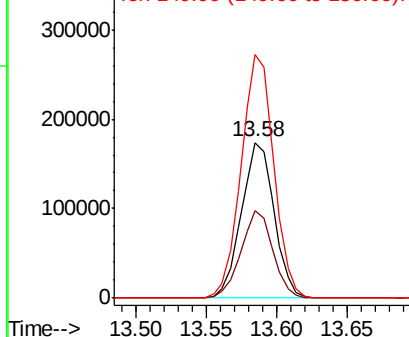


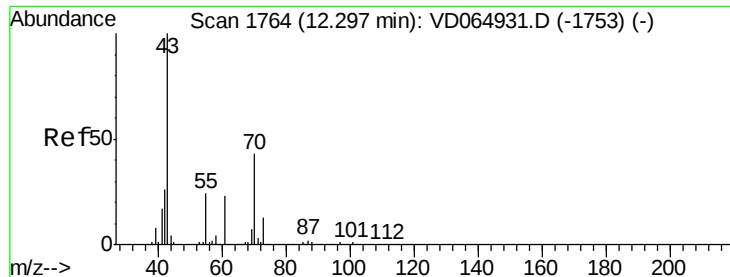
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD064969.D
Acq: 27 Jan 2020 17:51

Tgt Ion:152 Resp: 281603
Ion Ratio Lower Upper
152 100
115 54.9 28.1 84.4
150 156.4 0.0 350.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

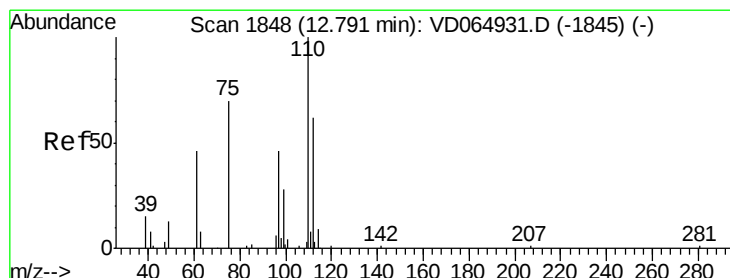
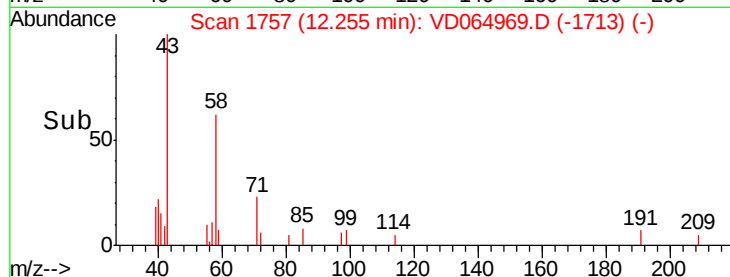
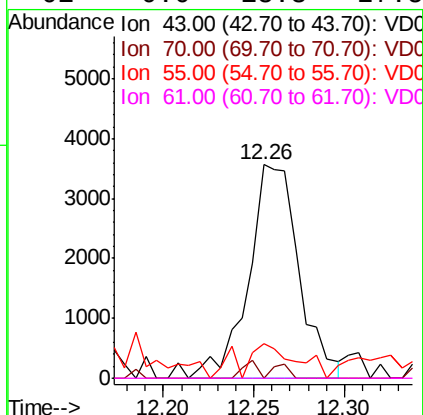
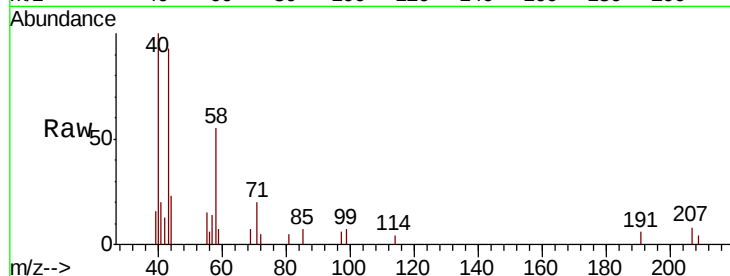




#74
N-amvl acetate
Concen: 1.598 ug/l
RT: 12.26 min Scan# 1757
Delta R.T. -0.04 min
Lab File: VD064969.D
Acq: 27 Jan 2020 17:51

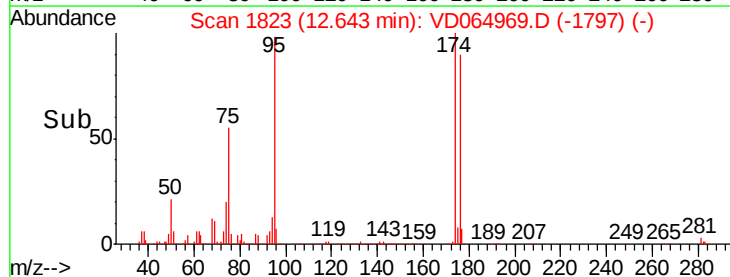
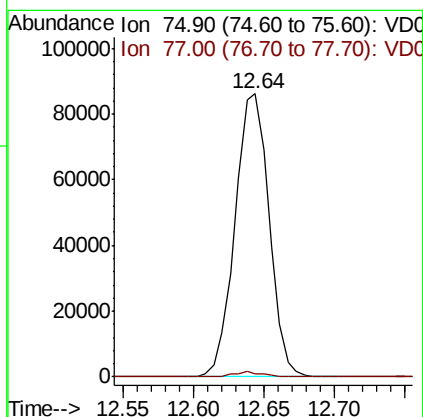
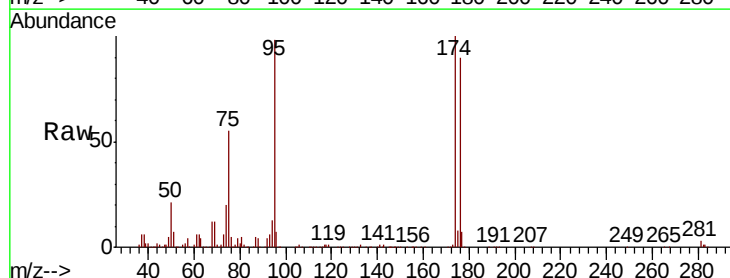
Instrument :
MSVOA_D
ClientSampleId :

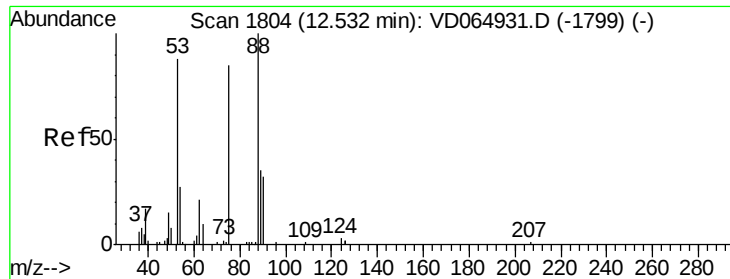
Tot Ion: 43 Resp: 6882
Ion Ratio Lower Upper
43 100
70 2.4 32.6 49.0#
55 14.0 19.9 29.9#
61 0.0 18.3 27.5#



#76
1,2,3-Trichloropropane
Concen: 62.214 ug/l
RT: 12.64 min Scan# 1823
Delta R.T. -0.15 min
Lab File: VD064969.D
Acq: 27 Jan 2020 17:51

Tgt Ion: 75 Resp: 145415
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#

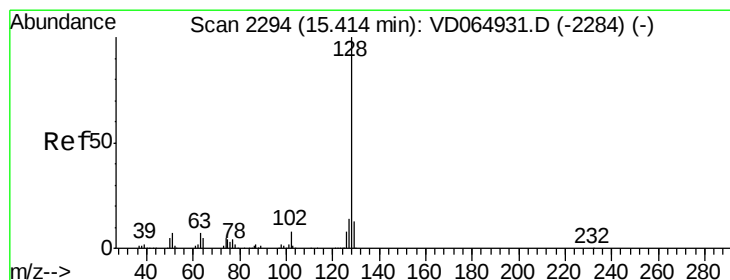
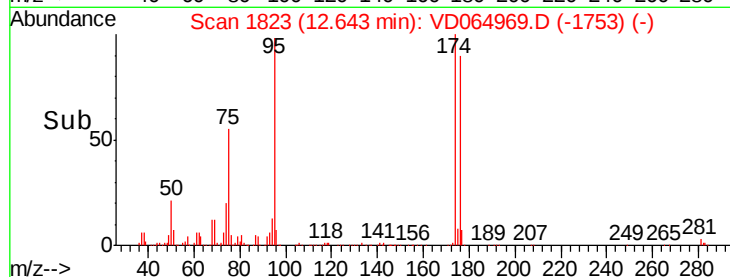
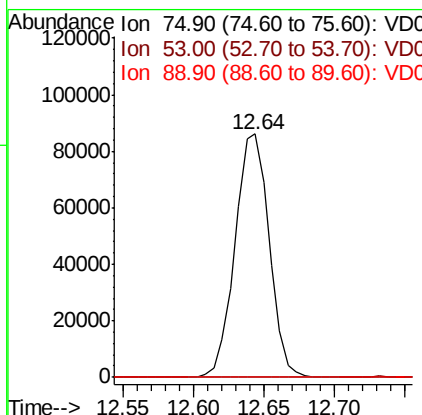
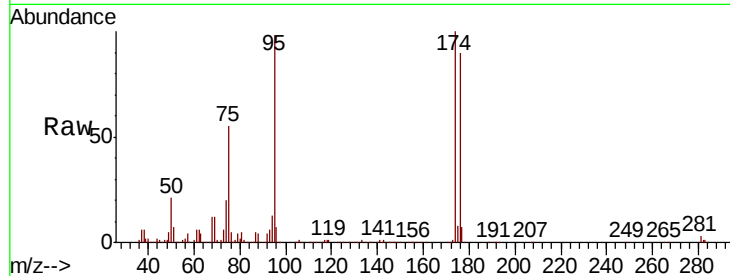




#81
trans-1,4-Dichloro-2-butene
Concen: 132.842 ug/l
RT: 12.64 min Scan# 1823
Delta R.T. 0.11 min
Lab File: VD064969.D
Acq: 27 Jan 2020 17:51

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 75 Resp: 145415
Ion Ratio Lower Upper
75 100
53 0.0 81.0 121.4#
89 0.1 36.2 54.4#



#95
Naphthalene
Concen: 2.902 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. -0.00 min
Lab File: VD064969.D
Acq: 27 Jan 2020 17:51

Tgt Ion:128 Resp: 24856
Ion Ratio Lower Upper
128 100
127 12.4 10.6 15.8
129 10.4 9.3 13.9

