

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD061721\
 Data File : VD069474.D
 Acq On : 17 Jun 2021 12:30
 Operator : VA/SY
 Sample : M2738-01
 Misc : 5.55G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 18 01:25:24 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D061121S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 11 12:50:13 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

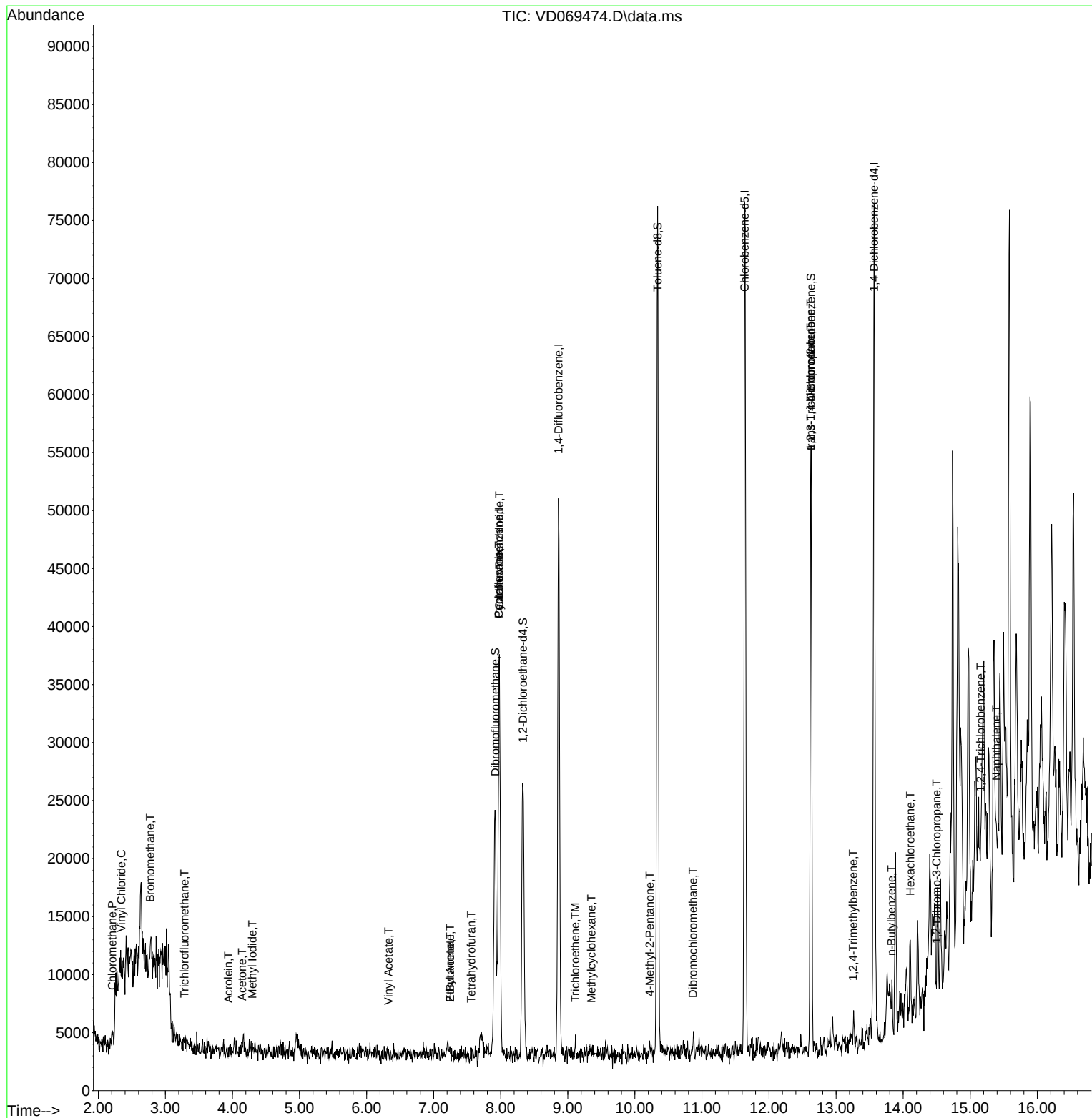
Internal Standards						
1) Pentafluorobenzene	7.973	168	23569	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	42439	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	45981	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	19802	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	21647	81.412	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 162.820%			
35) Dibromofluoromethane	7.920	113	15462	48.643	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.280%			
50) Toluene-d8	10.338	98	51887	44.630	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 89.260%			
62) 4-Bromofluorobenzene	12.626	95	16587	44.465	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 88.940%			
Target Compounds						Qvalue
3) Chloromethane	2.209	50	833	3.546	ug/l #	41
4) Vinyl Chloride	2.344	62	617	2.172	ug/l #	42
5) Bromomethane	2.773	94	1249	4.600	ug/l	100
7) Trichlorofluoromethane	3.285	101	693	1.491	ug/l #	18
10) Methyl Iodide	4.297	142	456	4.827	ug/l #	39
13) Acrolein	3.938	56	77	4.468	ug/l #	16
16) Acetone	4.144	43	1017	23.107	ug/l #	40
18) Methyl Acetate	4.691	43	189	Below Cal	#	46
20) Methylene Chloride	4.968	84	757	Below Cal	#	45
23) Vinyl Acetate	6.326	43	56	17.716	ug/l #	67
25) 2-Butanone	7.244	43	214	3.899	ug/l #	45
29) Tetrahydrofuran	7.561	42	67	2.169	ug/l #	27
31) Cyclohexane	7.973	56	438	1.212	ug/l #	73
37) Ethyl Acetate	7.244	43	214	1.447	ug/l #	67
38) Carbon Tetrachloride	7.979	117	2813	5.876	ug/l #	11
39) Methylcyclohexane	9.350	83	534	1.201	ug/l #	19
44) Trichloroethene	9.108	130	394	1.098	ug/l	1
51) 4-Methyl-2-Pentanone	10.220	43	480	3.365	ug/l #	80
60) Dibromochloromethane	10.867	129	345	1.089	ug/l #	10
76) 1,2,3-Trichloropropane	12.620	75	8206	40.875	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	8206	109.044	ug/l #	18
84) 1,2,4-Trimethylbenzene	13.255	105	1587	1.353	ug/l	79
89) n-Butylbenzene	13.826	91	2083	1.755	ug/l	86
90) Hexachloroethane	14.108	117	570	2.295	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.496	75	111	2.758	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.155	180	873	2.460	ug/l #	63
95) Naphthalene	15.390	128	4026	9.020	ug/l #	89

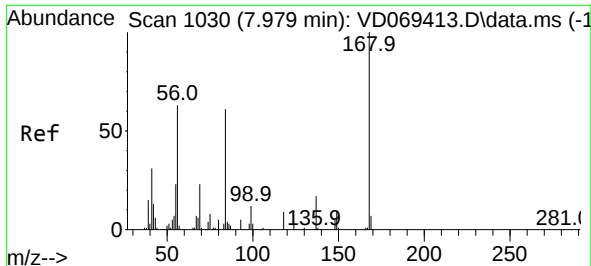
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VD069474.D
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QLast Update : Fri Jun 11 12:50:13 2021
Response via : Initial Calibration

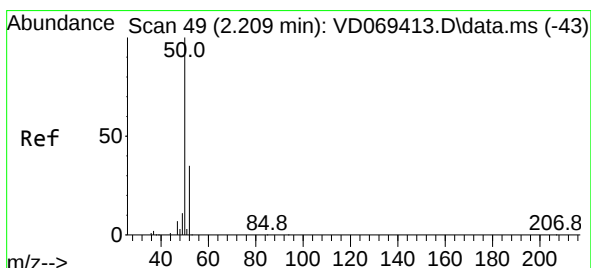
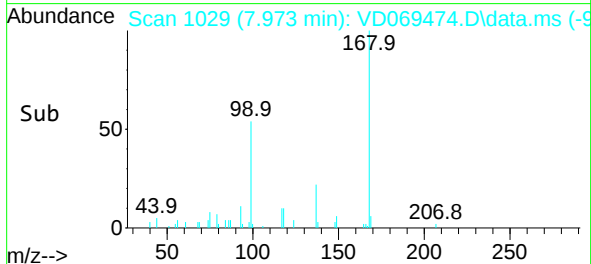
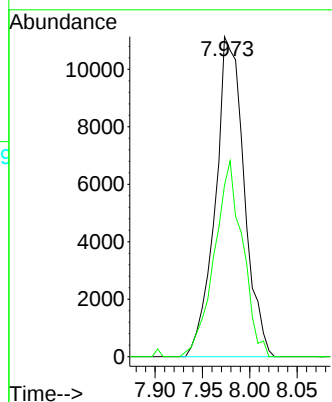
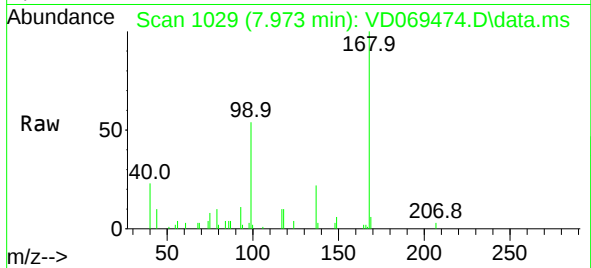




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.006 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

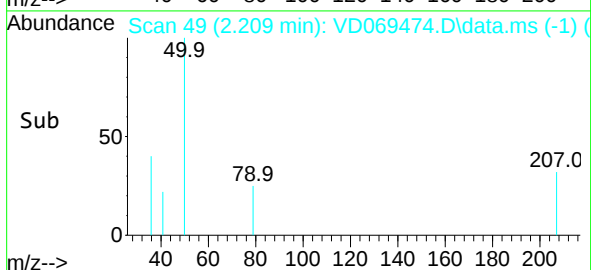
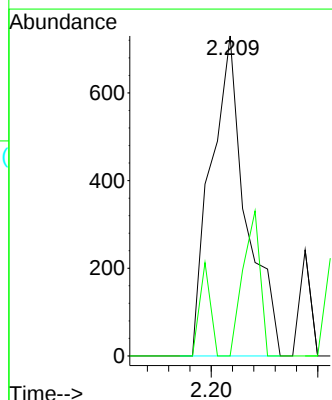
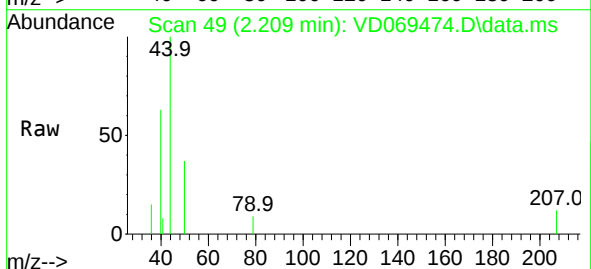
Instrument :
MSVOA_D
ClientSampleId :

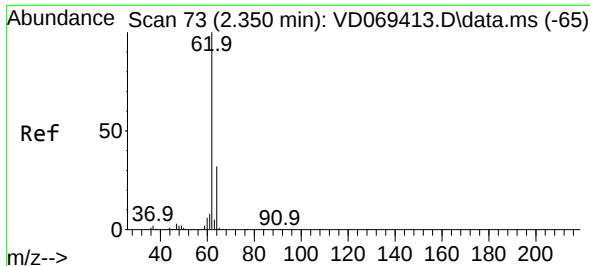
Tgt Ion:168 Resp: 23569
Ion Ratio Lower Upper
168 100
99 53.6 46.2 69.2



#3
Chloromethane
Concen: 3.546 ug/l
RT: 2.209 min Scan# 49
Delta R.T. -0.000 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

Tgt Ion: 50 Resp: 833
Ion Ratio Lower Upper
50 100
52 0.0 26.7 40.1#

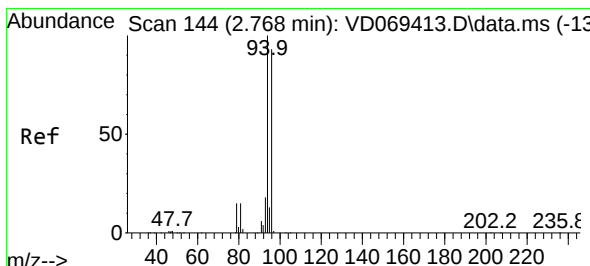
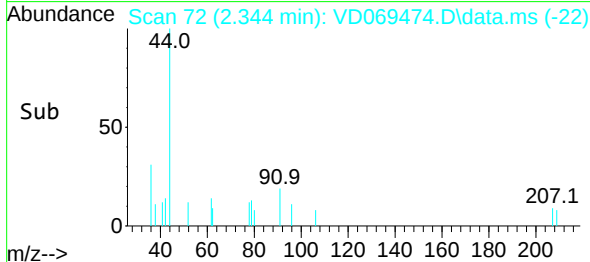
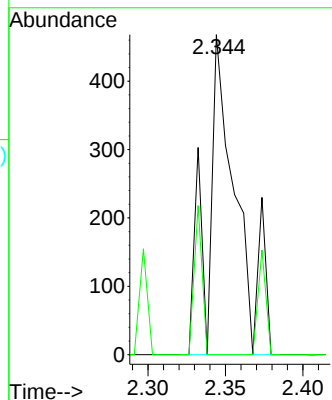
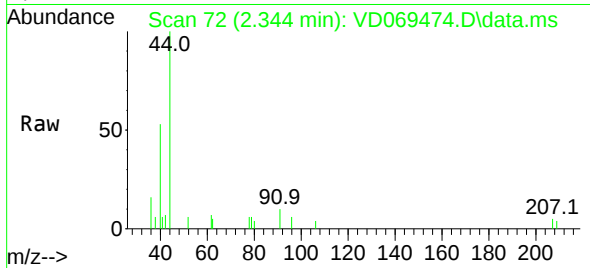




#4
 Vinyl Chloride
 Concen: 2.172 ug/l
 RT: 2.344 min Scan# 72
 Delta R.T. -0.006 min
 Lab File: VD069474.D
 Acq: 17 Jun 2021 12:30

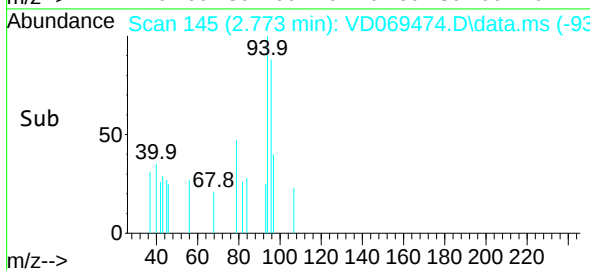
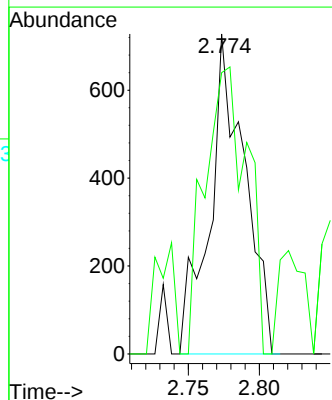
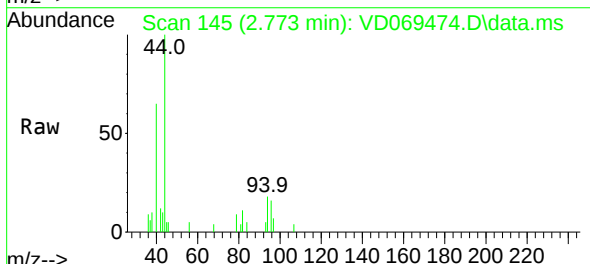
Instrument :
 MSVOA_D
 ClientSampled :

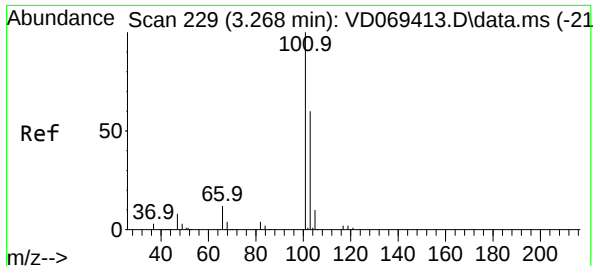
Tgt Ion: 62 Resp: 617
 Ion Ratio Lower Upper
 62 100
 64 0.0 26.2 39.4#



#5
 Bromomethane
 Concen: 4.600 ug/l
 RT: 2.773 min Scan# 145
 Delta R.T. 0.006 min
 Lab File: VD069474.D
 Acq: 17 Jun 2021 12:30

Tgt Ion: 94 Resp: 1249
 Ion Ratio Lower Upper
 94 100
 96 87.9 70.3 105.5

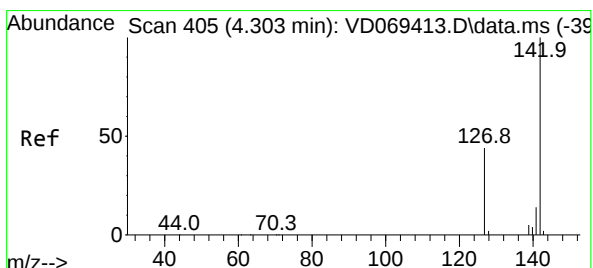
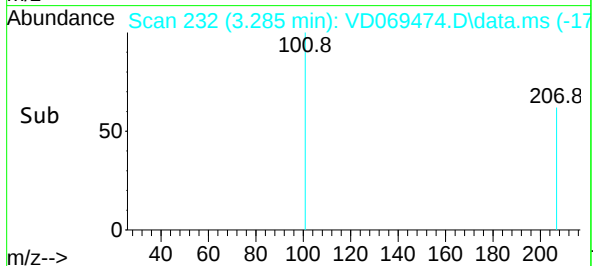
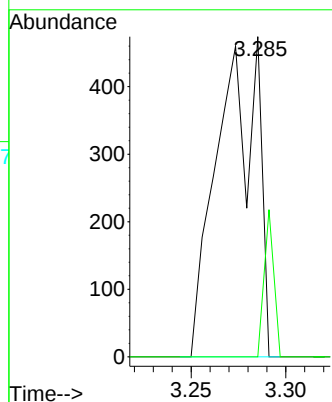
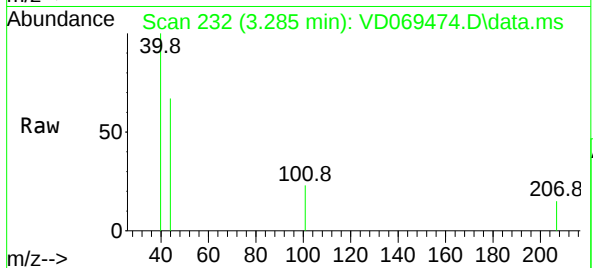




#7
Trichlorofluoromethane
Concen: 1.491 ug/l
RT: 3.285 min Scan# 232
Delta R.T. 0.017 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

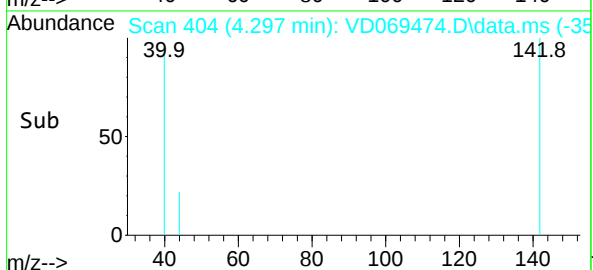
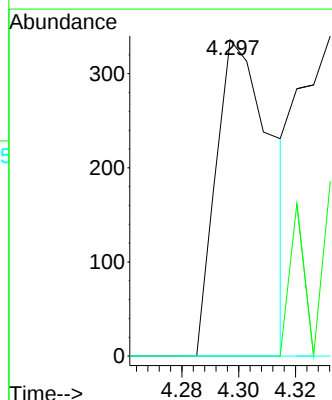
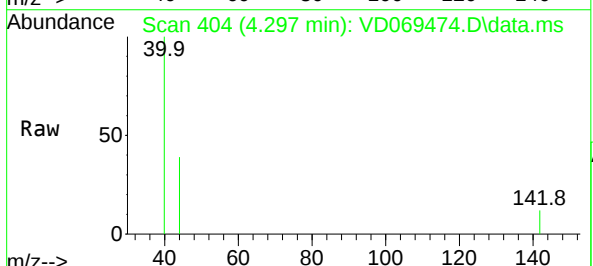
Instrument :
MSVOA_D
ClientSampleId :

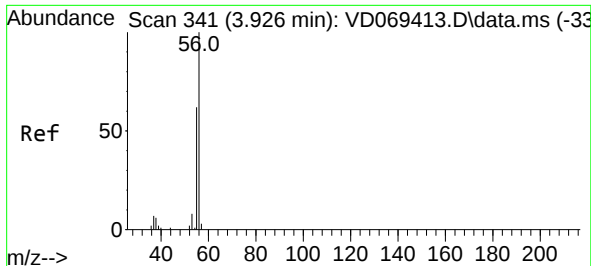
Tgt Ion:101 Resp: 693
Ion Ratio Lower Upper
101 100
103 0.0 51.0 76.4#



#10
Methyl Iodide
Concen: 4.827 ug/l
RT: 4.297 min Scan# 404
Delta R.T. -0.006 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

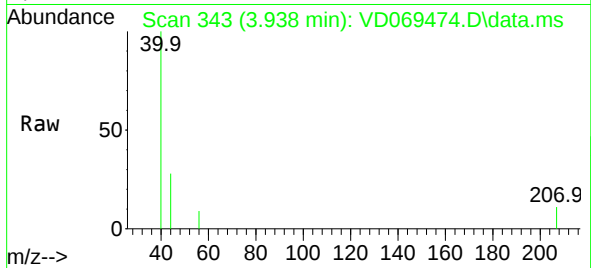
Tgt Ion:142 Resp: 456
Ion Ratio Lower Upper
142 100
127 0.0 36.2 54.2#
141 0.0 12.2 18.2#



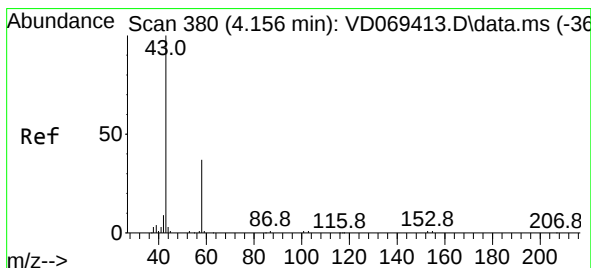
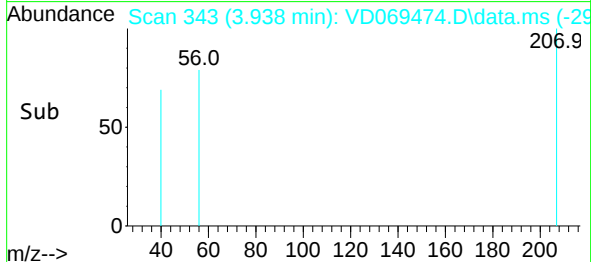
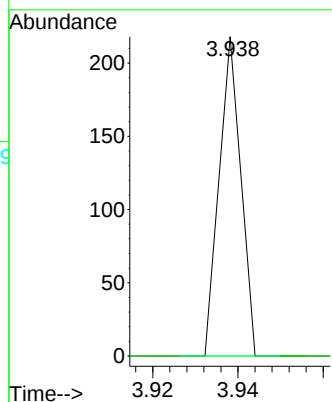


#13
Acrolein
Concen: 4.468 ug/l
RT: 3.938 min Scan# 343
Delta R.T. 0.012 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

Instrument :
MSVOA_D
ClientSampled :

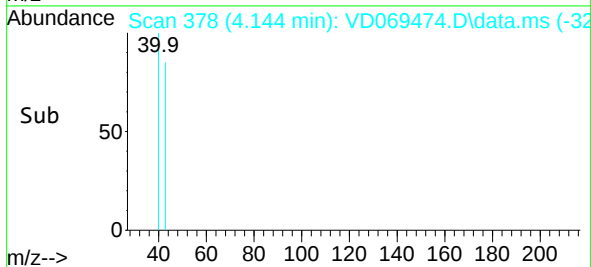
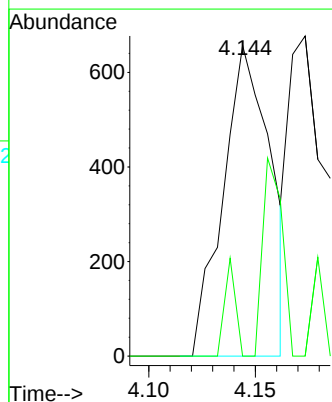
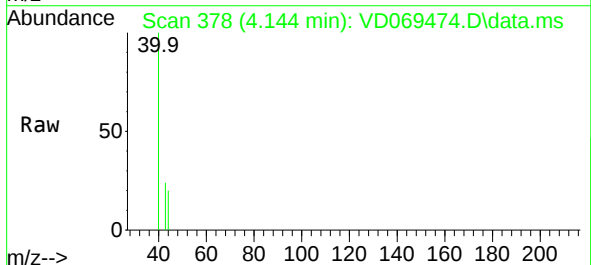


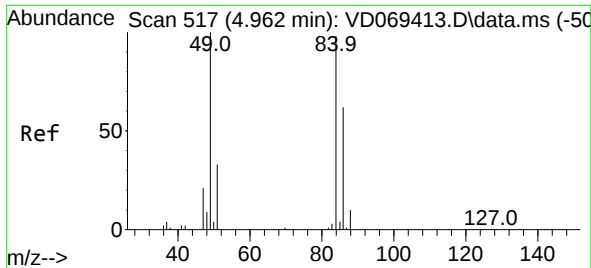
Tgt Ion: 56 Resp: 77
Ion Ratio Lower Upper
56 100
55 0.0 53.8 80.8#



#16
Acetone
Concen: 23.107 ug/l
RT: 4.144 min Scan# 378
Delta R.T. -0.012 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

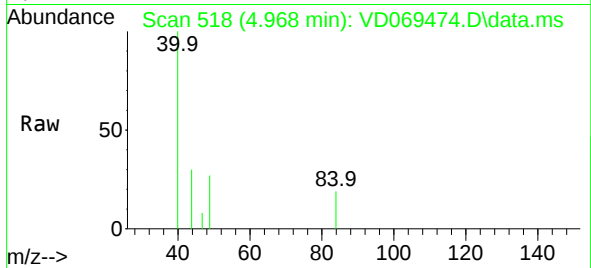
Tgt Ion: 43 Resp: 1017
Ion Ratio Lower Upper
43 100
58 0.0 27.5 41.3#



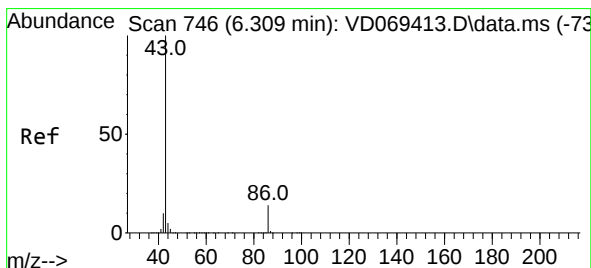
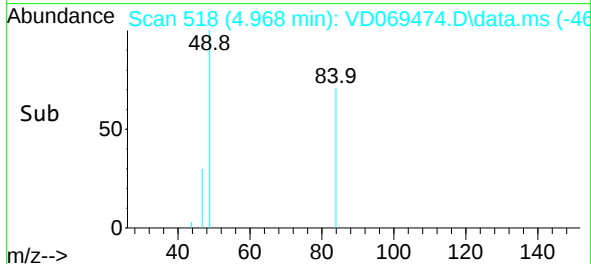
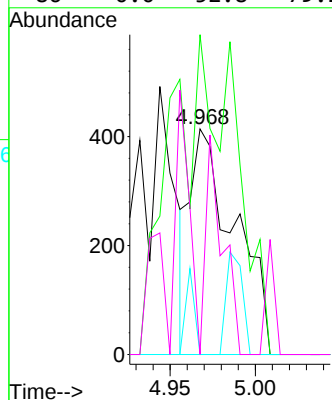


#20
Methylene Chloride
Concen: Below Cal
RT: 4.968 min Scan# 518
Delta R.T. 0.006 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

Instrument :
MSVOA_D
ClientSampleId :

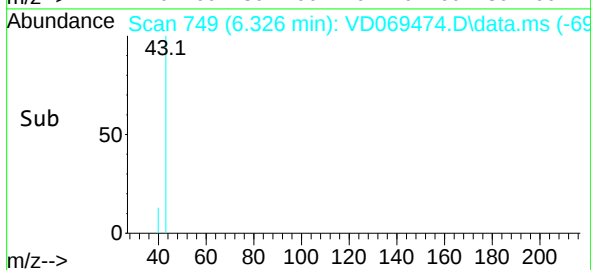
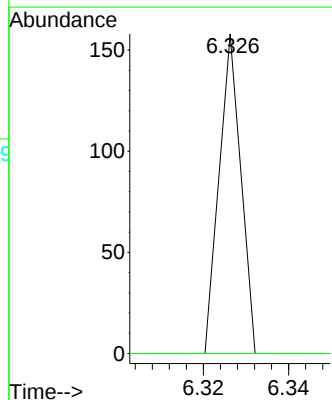
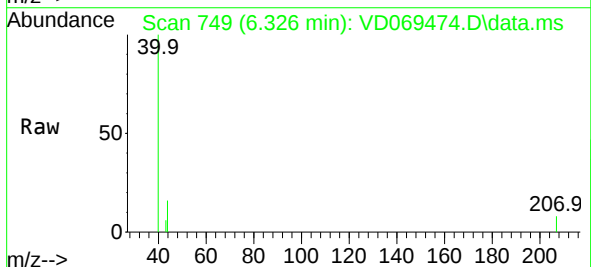


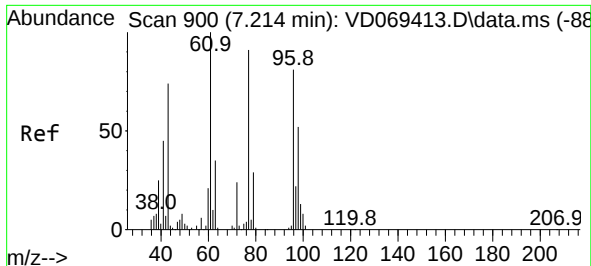
Tgt Ion: 84 Resp: 757
Ion Ratio Lower Upper
84 100
49 141.8 83.7 125.5#
51 0.0 26.4 39.6#
86 0.0 52.8 79.2#



#23
Vinyl Acetate
Concen: 17.716 ug/l
RT: 6.326 min Scan# 749
Delta R.T. 0.017 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

Tgt Ion: 43 Resp: 56
Ion Ratio Lower Upper
43 100
86 0.0 10.5 15.7#

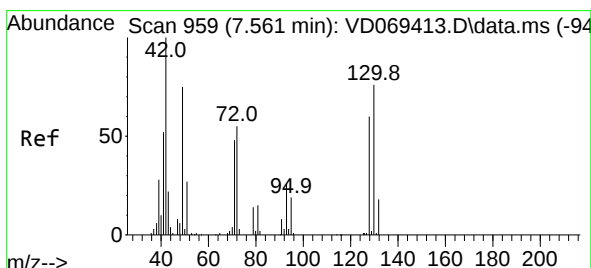
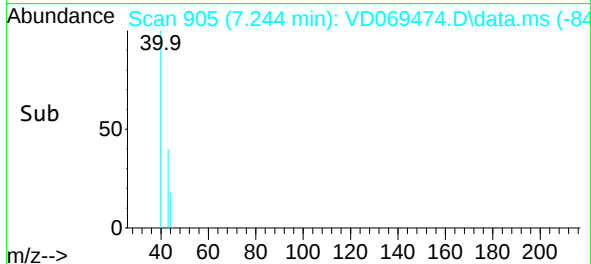
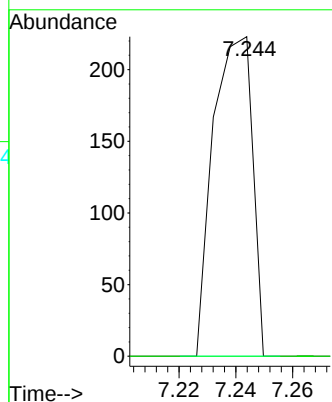
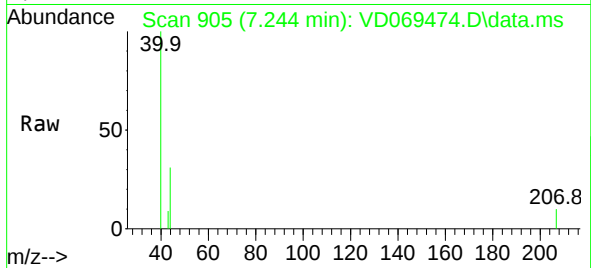




#25
2-Butanone
Concen: 3.899 ug/l
RT: 7.244 min Scan# 905
Delta R.T. 0.030 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

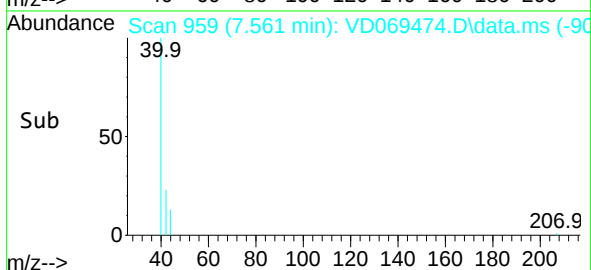
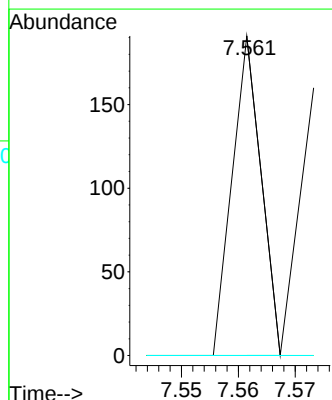
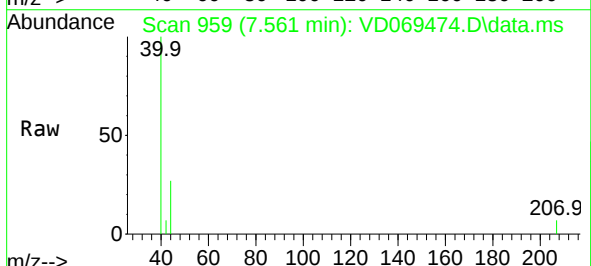
Instrument :
MSVOA_D
ClientSampled :

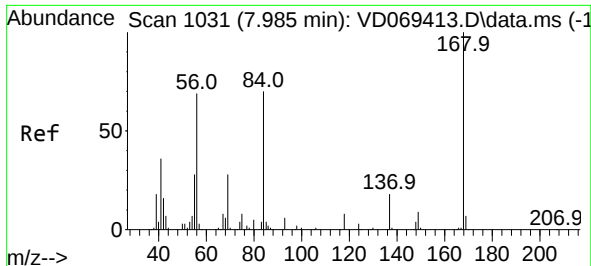
Tgt Ion: 43 Resp: 214
Ion Ratio Lower Upper
43 100
72 0.0 23.9 35.9#



#29
Tetrahydrofuran
Concen: 2.169 ug/l
RT: 7.561 min Scan# 959
Delta R.T. 0.000 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

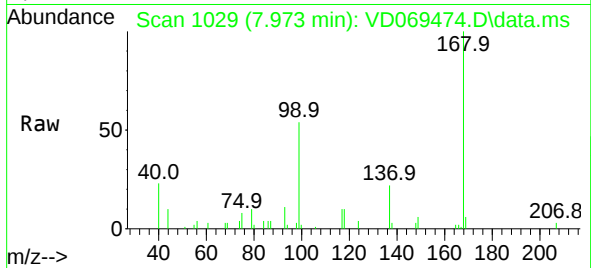
Tgt Ion: 42 Resp: 67
Ion Ratio Lower Upper
42 100
72 0.0 41.0 61.6#
71 0.0 38.9 58.3#



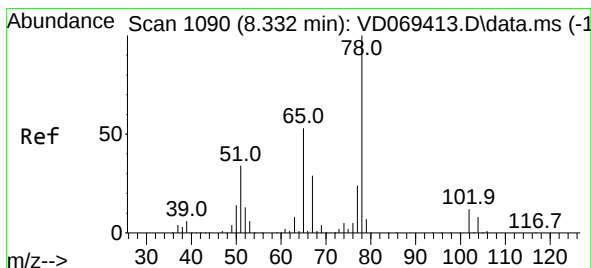
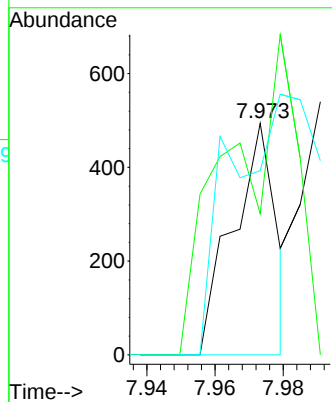
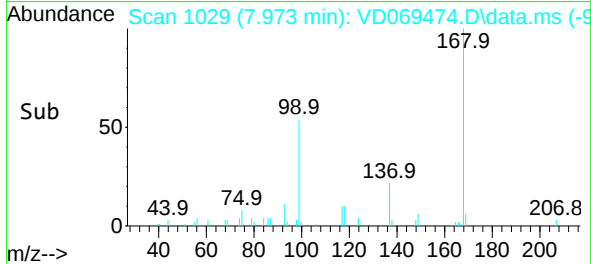


#31
Cyclohexane
Concen: 1.212 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.012 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

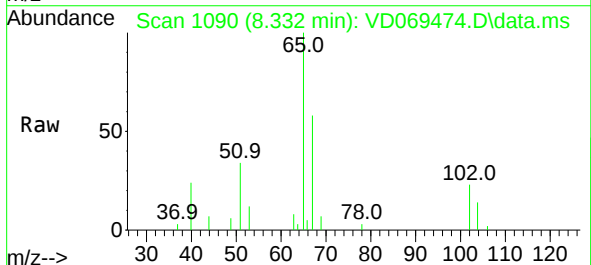
Instrument :
MSVOA_D
ClientSampleId :



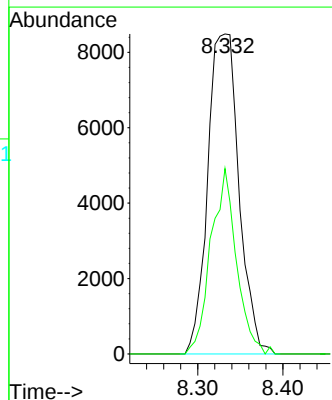
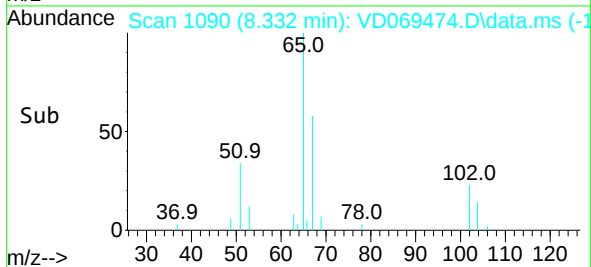
Tgt Ion: 56 Resp: 438
Ion Ratio Lower Upper
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69 60.9 29.0 43.4#
84 79.6 81.1 121.7#

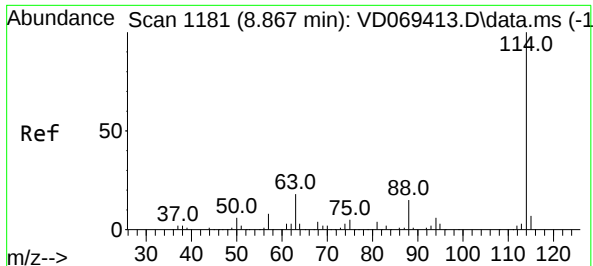


#33
1,2-Dichloroethane-d4
Concen: 81.412 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30



Tgt Ion: 65 Resp: 21647
Ion Ratio Lower Upper
65 100
67 47.5 0.0 105.8

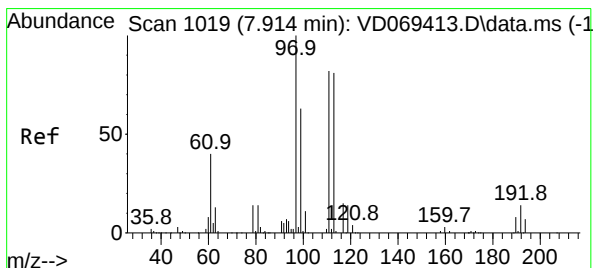
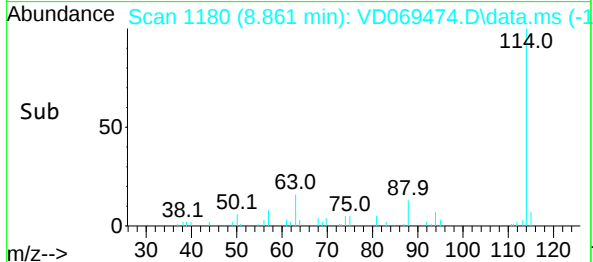
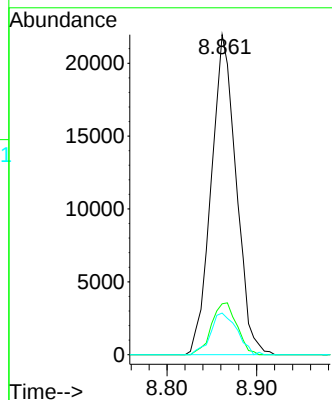
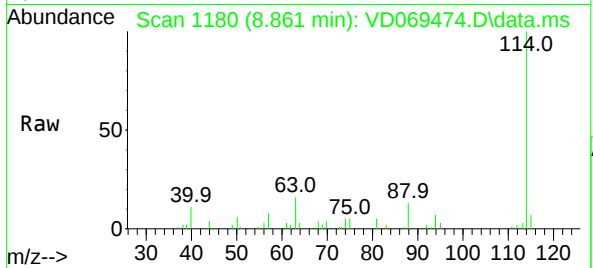




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. -0.006 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

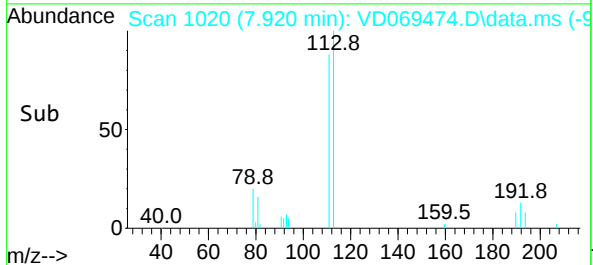
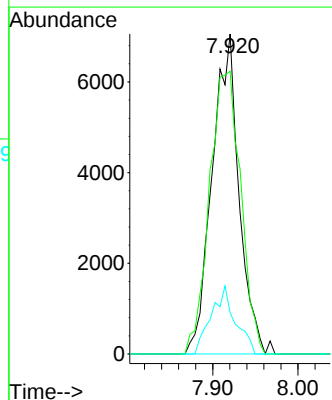
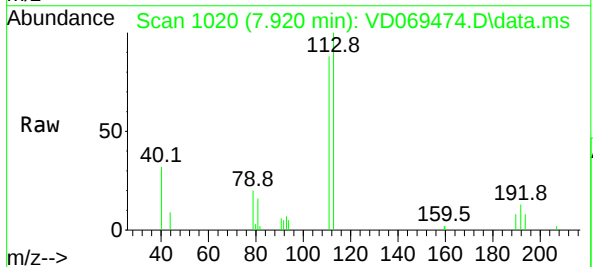
Instrument :
MSVOA_D
ClientSampleId :

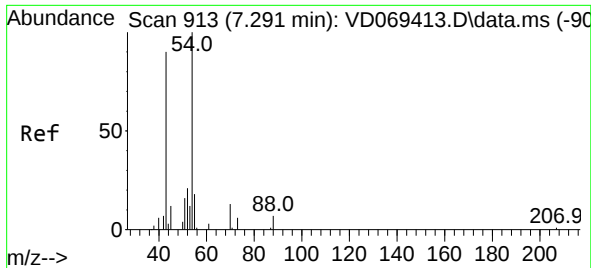
Tgt Ion:	114	Resp:	42439
Ion Ratio	Lower	Upper	
114	100		
63	15.9	0.0	35.6
88	13.0	0.0	31.2



#35
Dibromofluoromethane
Concen: 48.643 ug/l
RT: 7.920 min Scan# 1020
Delta R.T. 0.006 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

Tgt Ion:	113	Resp:	15462
Ion Ratio	Lower	Upper	
113	100		
111	102.6	83.0	124.6
192	19.0	15.1	22.7





#37

Ethyl Acetate

Concen: 1.447 ug/l

RT: 7.244 min Scan# 905

Delta R.T. -0.047 min

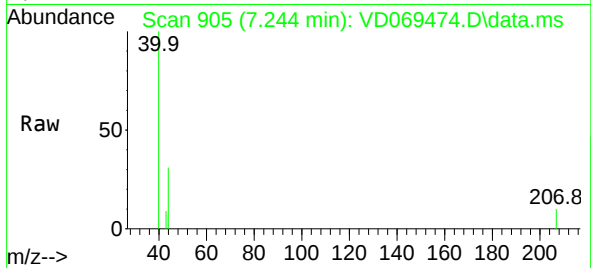
Lab File: VD069474.D

Acq: 17 Jun 2021 12:30

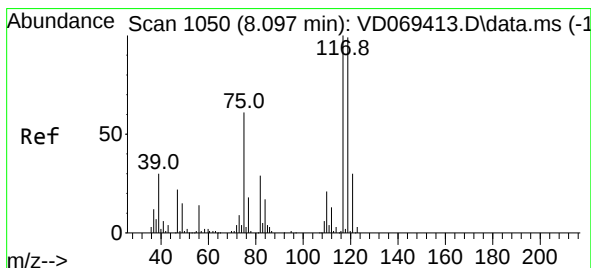
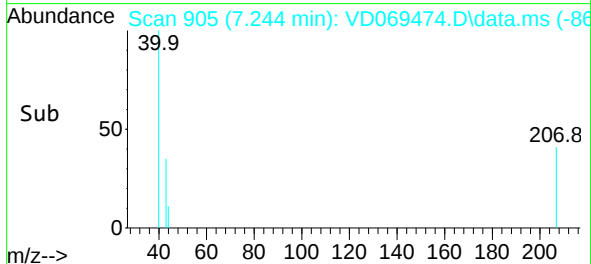
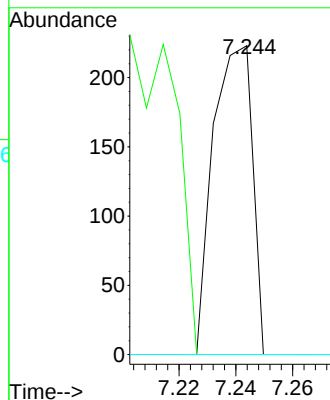
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 43	Resp: 214
Ion Ratio	Lower Upper
43	100
61	0.0 11.0 16.6#
70	0.0 9.7 14.5#



#38

Carbon Tetrachloride

Concen: 5.876 ug/l

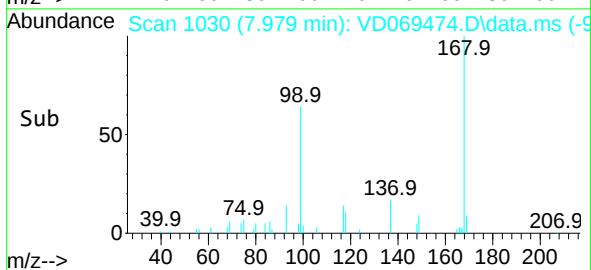
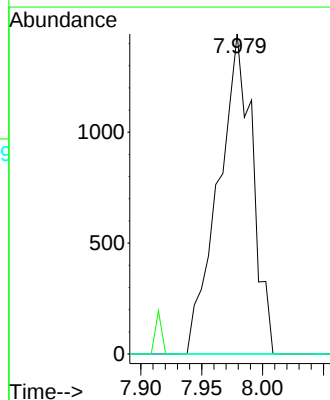
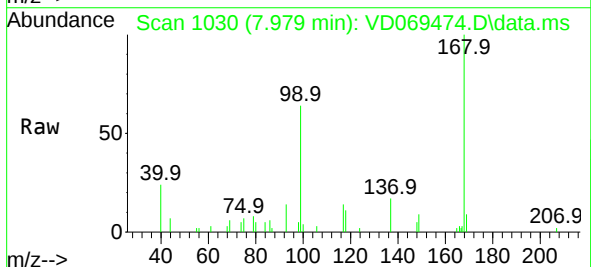
RT: 7.979 min Scan# 1030

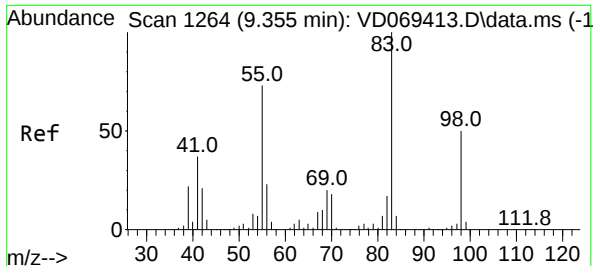
Delta R.T. -0.118 min

Lab File: VD069474.D

Acq: 17 Jun 2021 12:30

Tgt Ion: 117	Resp: 2813
Ion Ratio	Lower Upper
117	100
119	0.0 79.4 119.2#
121	0.0 26.1 39.1#





#39

Methylcyclohexane

Concen: 1.201 ug/l

RT: 9.350 min Scan# 1263

Delta R.T. -0.005 min

Lab File: VD069474.D

Acq: 17 Jun 2021 12:30

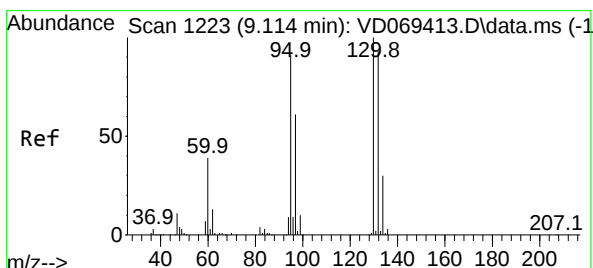
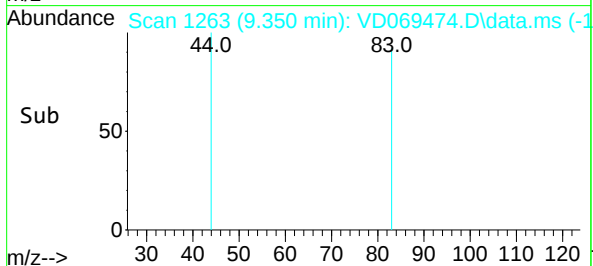
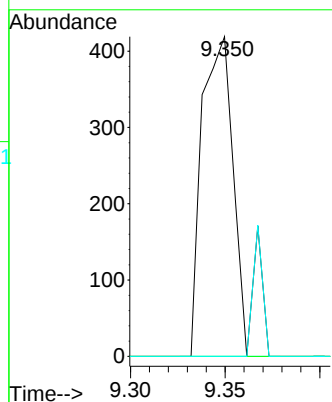
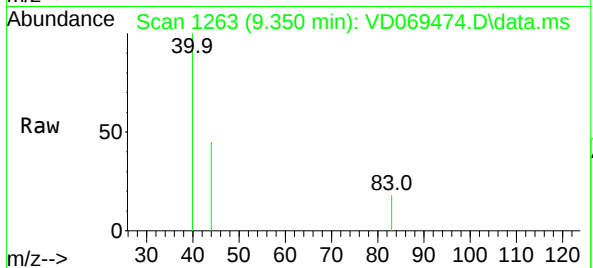
Tgt Ion: 83 Resp: 534

Ion Ratio Lower Upper

83 100

55 0.0 57.4 86.2#

98 0.0 42.2 63.2#



#44

Trichloroethene

Concen: 1.098 ug/l

RT: 9.108 min Scan# 1222

Delta R.T. -0.006 min

Lab File: VD069474.D

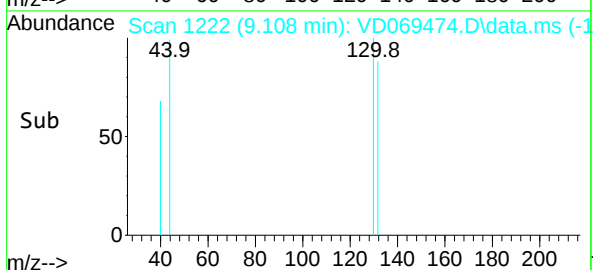
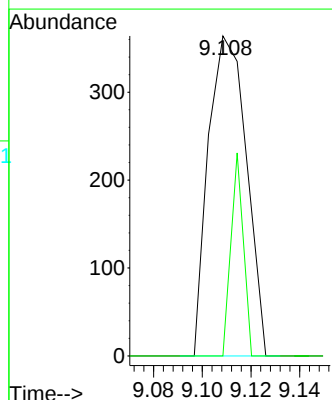
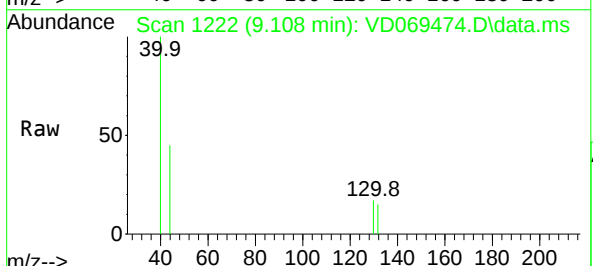
Acq: 17 Jun 2021 12:30

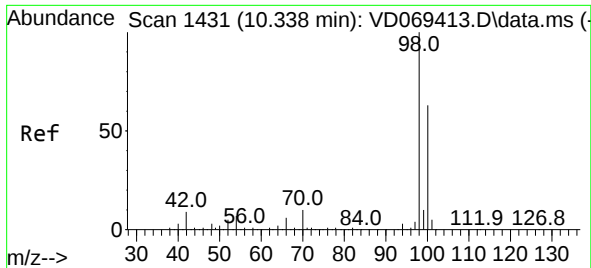
Tgt Ion:130 Resp: 394

Ion Ratio Lower Upper

130 100

95 0.0 0.0 198.8

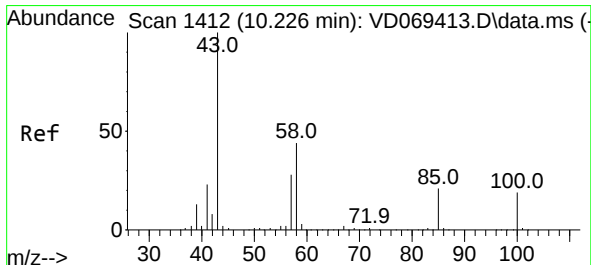
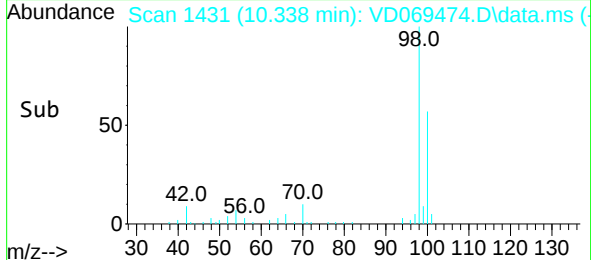
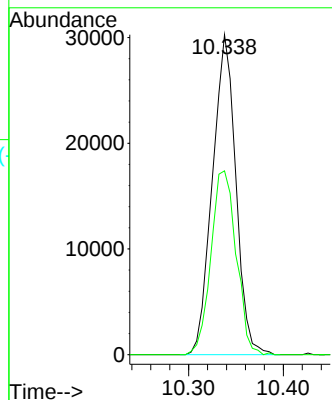
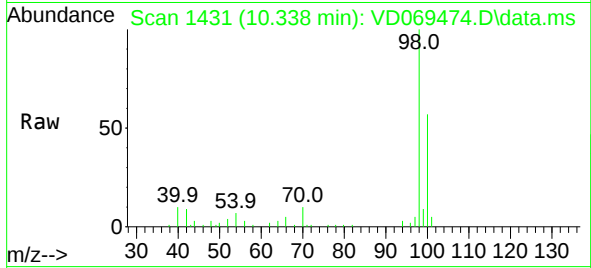




#50
Toluene-d8
Concen: 44.630 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

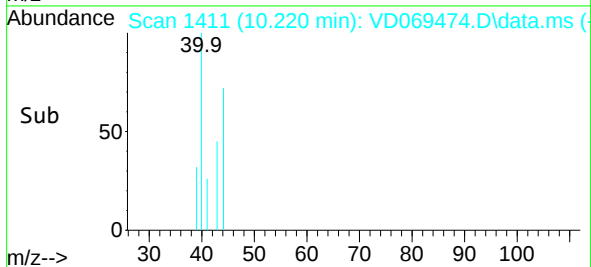
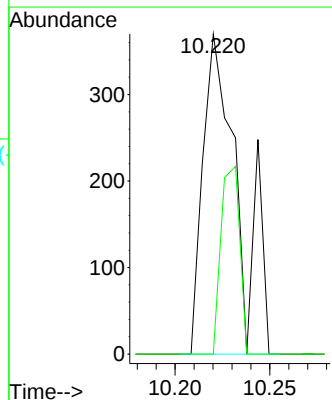
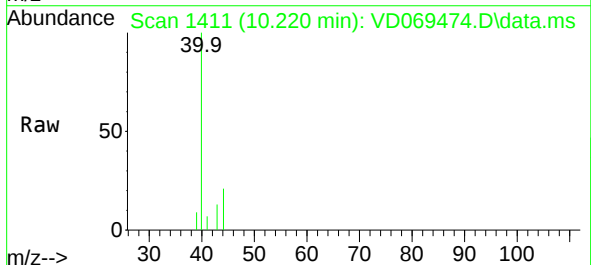
Instrument :
MSVOA_D
ClientSampled :

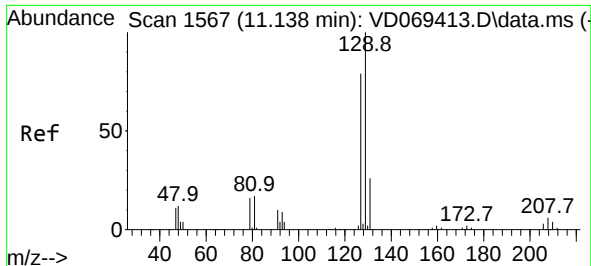
Tgt Ion: 98 Resp: 51887
Ion Ratio Lower Upper
98 100
100 62.1 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 3.365 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. -0.006 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

Tgt Ion: 43 Resp: 480
Ion Ratio Lower Upper
43 100
58 31.0 35.1 52.7#

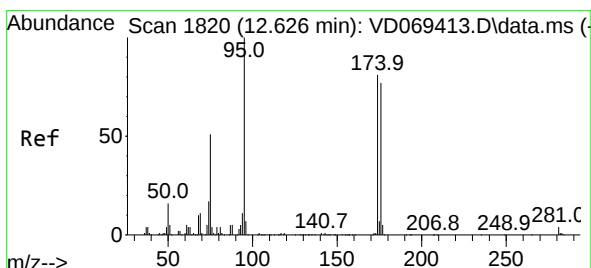
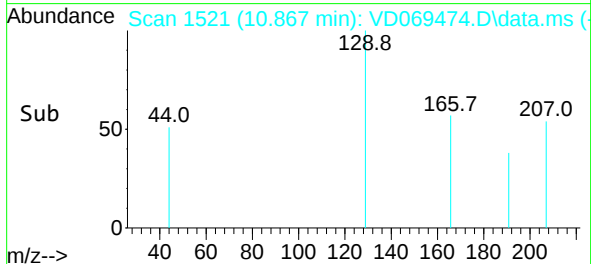
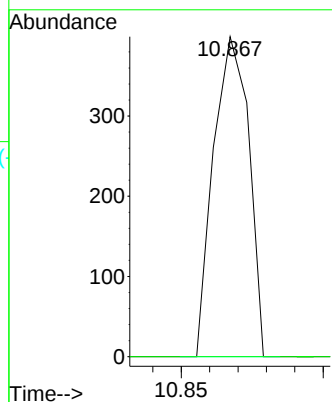
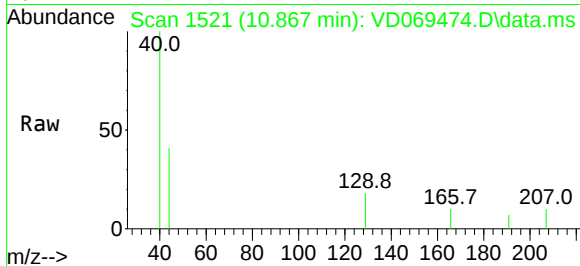




#60
Dibromochloromethane
Concen: 1.089 ug/l
RT: 10.867 min Scan# 1521
Delta R.T. -0.271 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

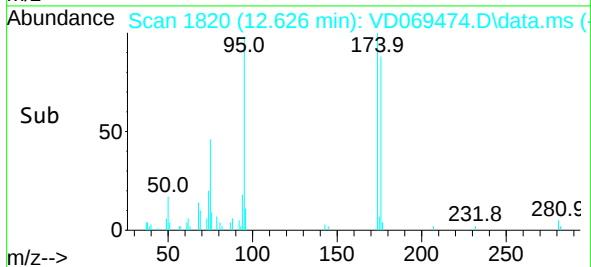
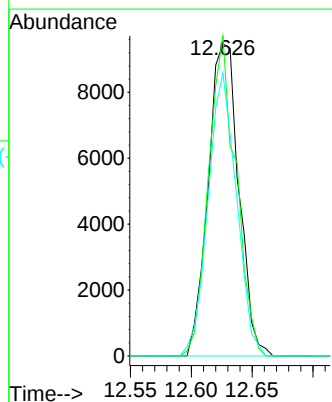
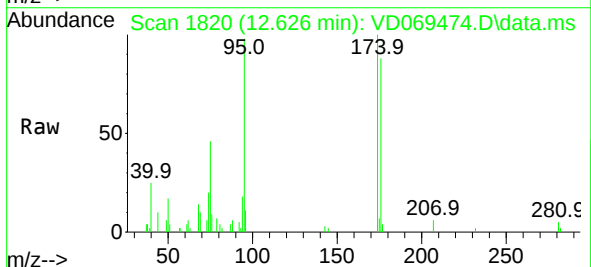
Instrument :
MSVOA_D
ClientSampleId :

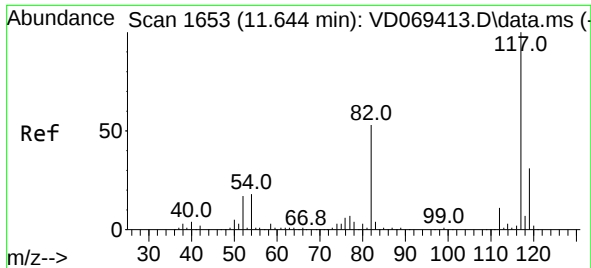
Tgt Ion:129 Resp: 345
Ion Ratio Lower Upper
129 100
127 0.0 39.6 118.7#



#62
4-Bromofluorobenzene
Concen: 44.465 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

Tgt Ion: 95 Resp: 16587
Ion Ratio Lower Upper
95 100
174 91.7 0.0 162.8
176 83.7 0.0 154.4

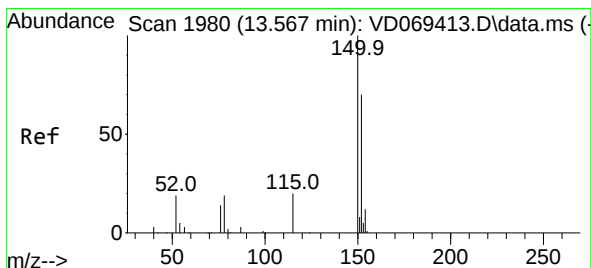
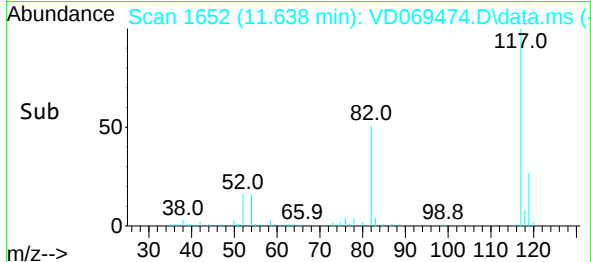
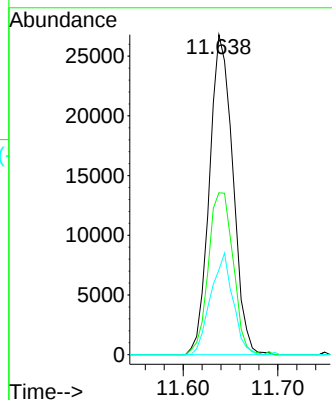
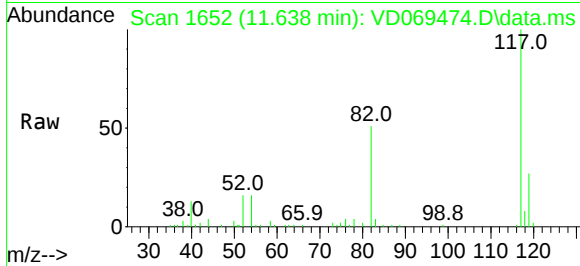




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.006 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

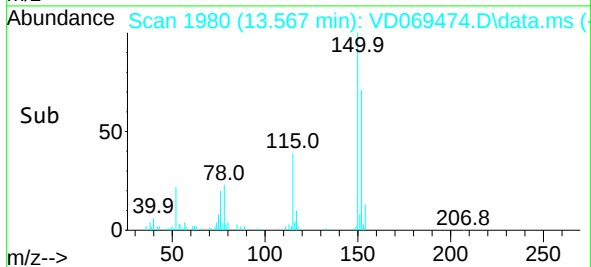
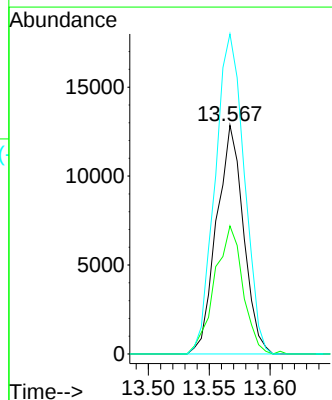
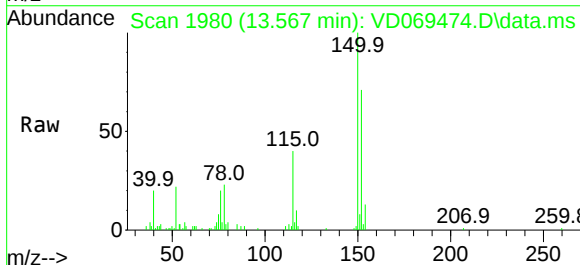
Instrument :
MSVOA_D
ClientSampleId :

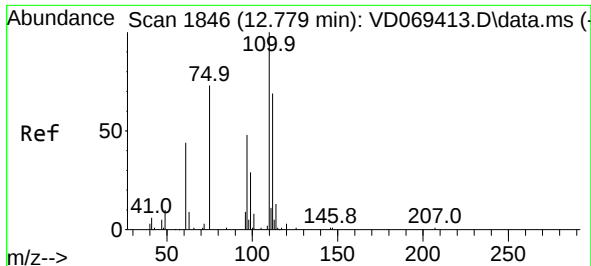
Tgt Ion:117 Resp: 45981
Ion Ratio Lower Upper
117 100
82 50.6 43.3 64.9
119 26.5 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.000 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

Tgt Ion:152 Resp: 19802
Ion Ratio Lower Upper
152 100
115 58.7 29.4 88.3
150 151.3 0.0 355.0

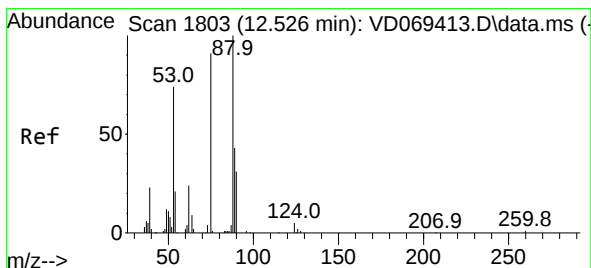
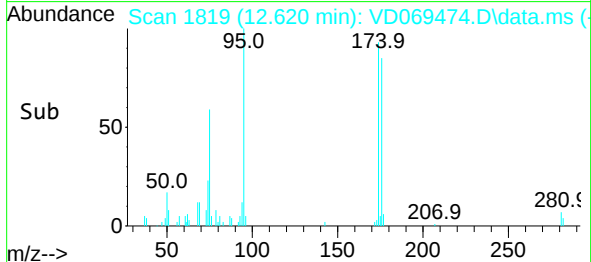
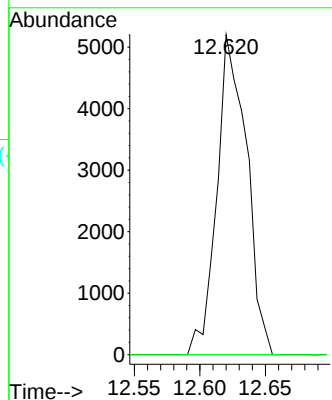
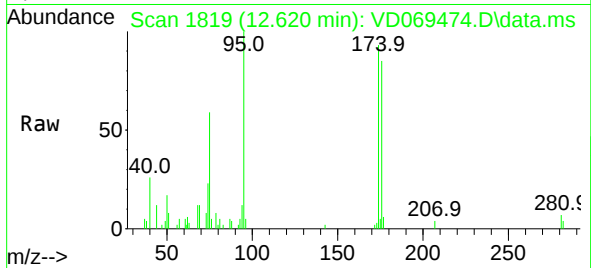




#76
1,2,3-Trichloropropane
Concen: 40.875 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.159 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

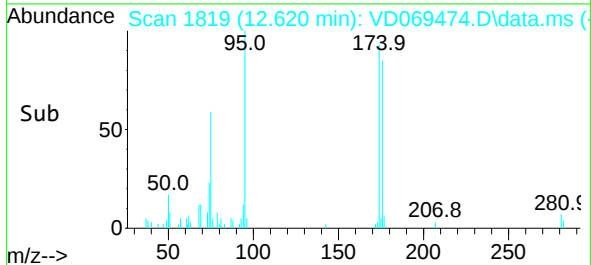
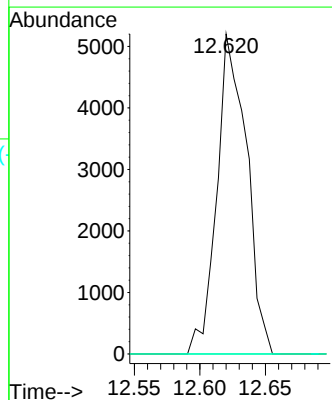
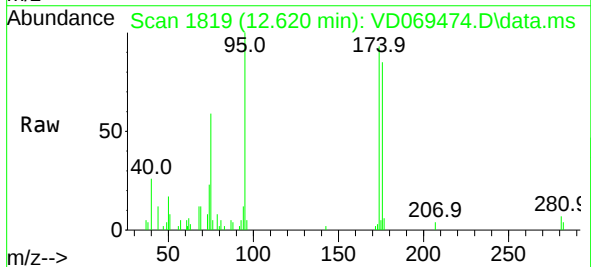
Instrument :
MSVOA_D
ClientSampled :

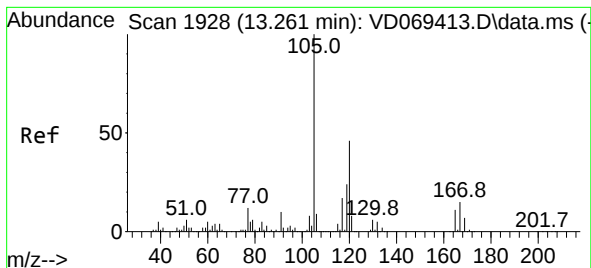
Tgt Ion: 75 Resp: 8206
Ion Ratio Lower Upper
75 100
77 0.0 183.8 551.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 109.044 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.094 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

Tgt Ion: 75 Resp: 8206
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 35.6 53.4#

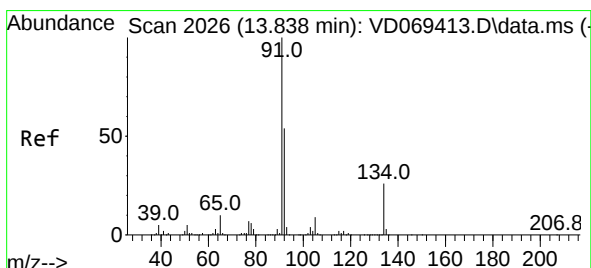
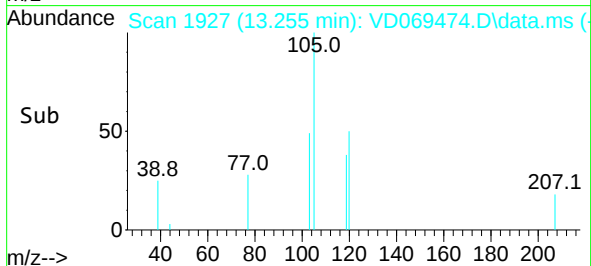
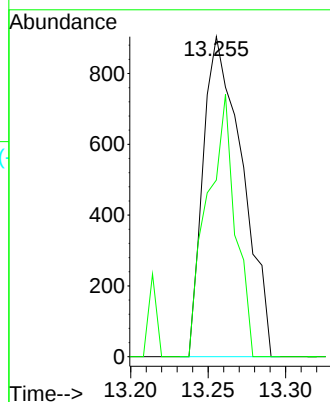
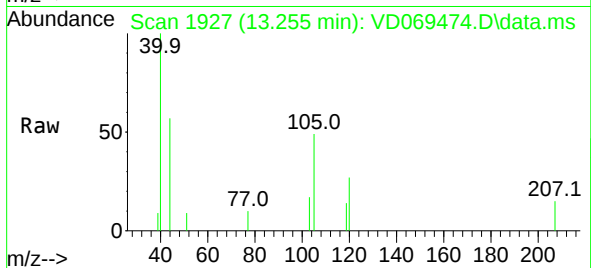




#84
1,2,4-Trimethylbenzene
Concen: 1.353 ug/l
RT: 13.255 min Scan# 1927
Delta R.T. -0.006 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

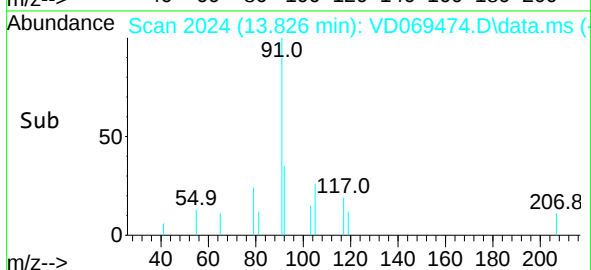
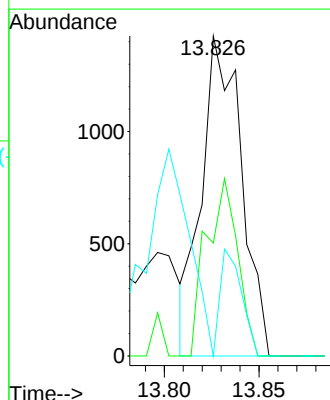
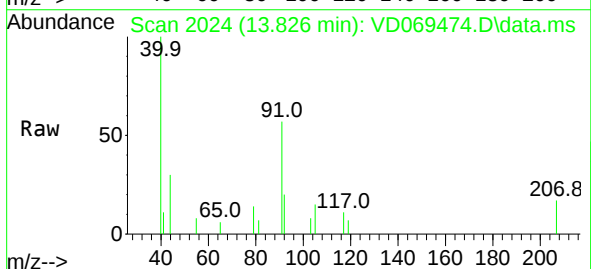
Instrument :
MSVOA_D
ClientSampleId :

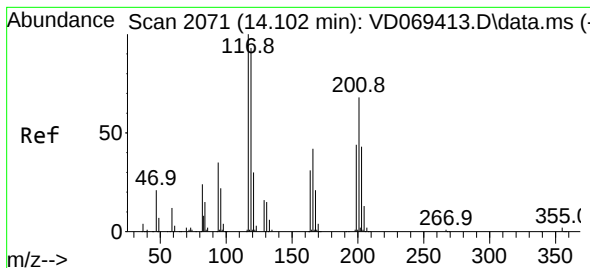
Tgt Ion:105 Resp: 1587
Ion Ratio Lower Upper
105 100
120 58.8 22.6 67.8



#89
n-Butylbenzene
Concen: 1.755 ug/l
RT: 13.826 min Scan# 2024
Delta R.T. -0.012 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

Tgt Ion: 91 Resp: 2083
Ion Ratio Lower Upper
91 100
92 43.6 26.4 79.2
134 17.9 13.0 38.9

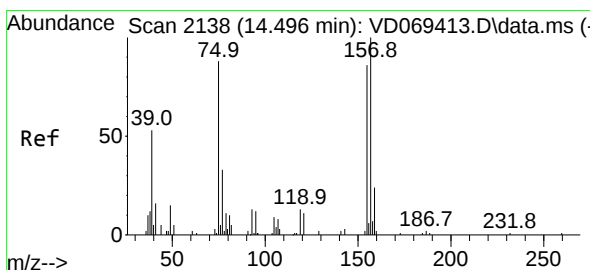
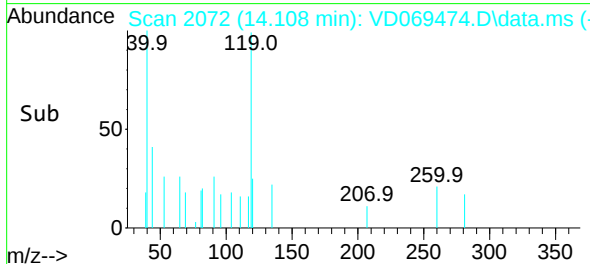
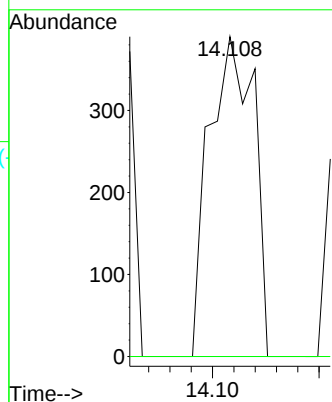
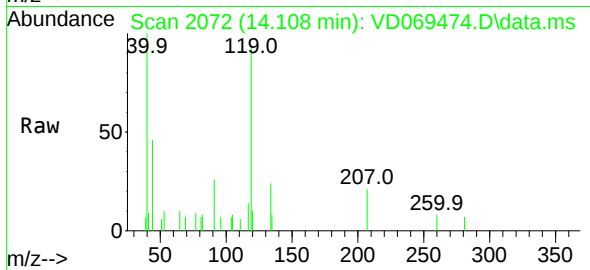




#90
Hexachloroethane
Concen: 2.295 ug/l
RT: 14.108 min Scan# 2072
Delta R.T. 0.006 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

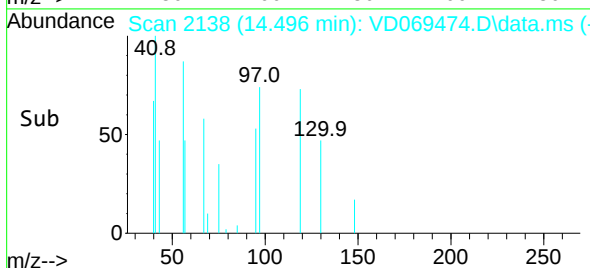
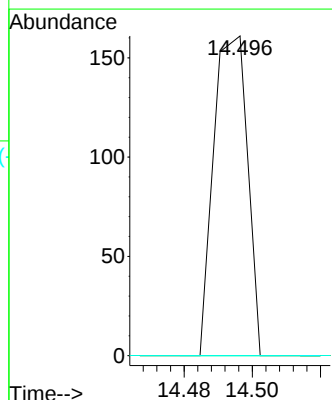
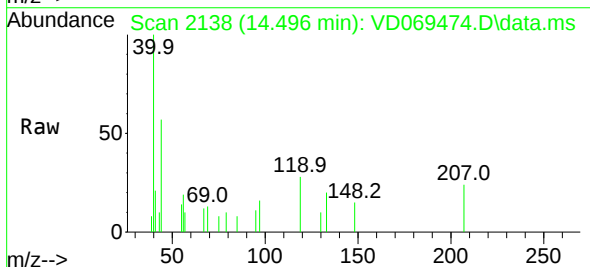
Instrument :
MSVOA_D
ClientSampleId :

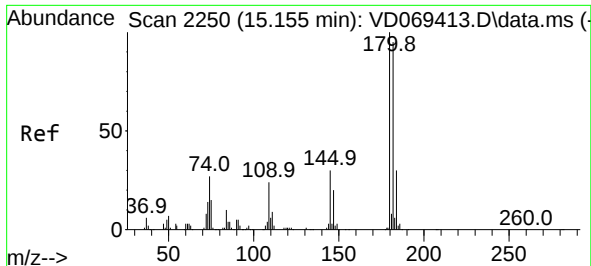
Tgt Ion:117 Resp: 570
Ion Ratio Lower Upper
117 100
201 0.0 36.0 108.1#



#92
1,2-Dibromo-3-Chloropropane
Concen: 2.758 ug/l
RT: 14.496 min Scan# 2138
Delta R.T. 0.000 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

Tgt Ion: 75 Resp: 111
Ion Ratio Lower Upper
75 100
155 0.0 42.1 126.4#
157 0.0 54.4 163.3#

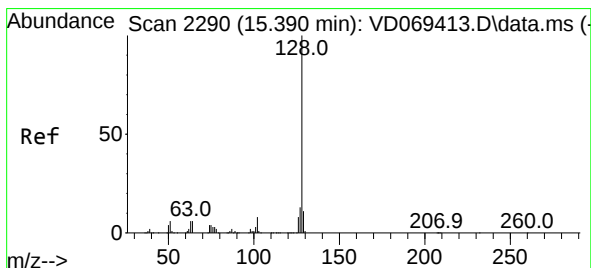
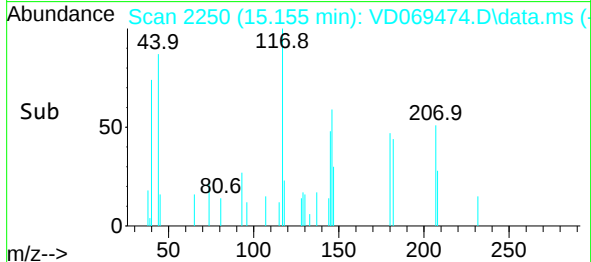
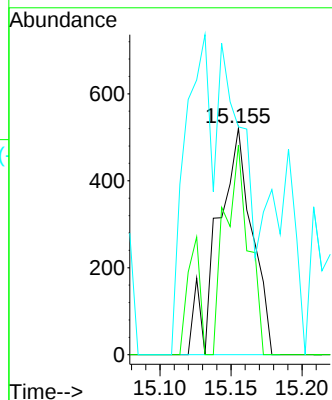
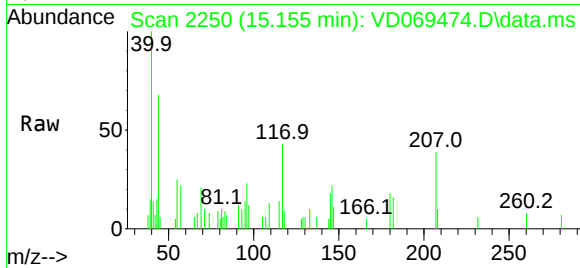




#93
1,2,4-Trichlorobenzene
Concen: 2.460 ug/l
RT: 15.155 min Scan# 2250
Delta R.T. 0.000 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

Instrument :
MSVOA_D
ClientSampled :

Tgt Ion:180 Resp: 873
Ion Ratio Lower Upper
180 100
182 64.3 47.3 141.8
145 0.0 15.2 45.5#



#95
Naphthalene
Concen: 9.020 ug/l
RT: 15.390 min Scan# 2290
Delta R.T. 0.000 min
Lab File: VD069474.D
Acq: 17 Jun 2021 12:30

Tgt Ion:128 Resp: 4026
Ion Ratio Lower Upper
128 100
127 17.8 10.4 15.6#
129 7.2 8.8 13.2#

