

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD031822\
 Data File : VD072304.D
 Acq On : 18 Mar 2022 21:59
 Operator : VA/SY
 Sample : N1962-10
 Misc : 5.05G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 C-23-25-28

Quant Time: Mar 19 05:29:47 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031122S.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 14 05:18:06 2022
 Response via : Initial Calibration

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

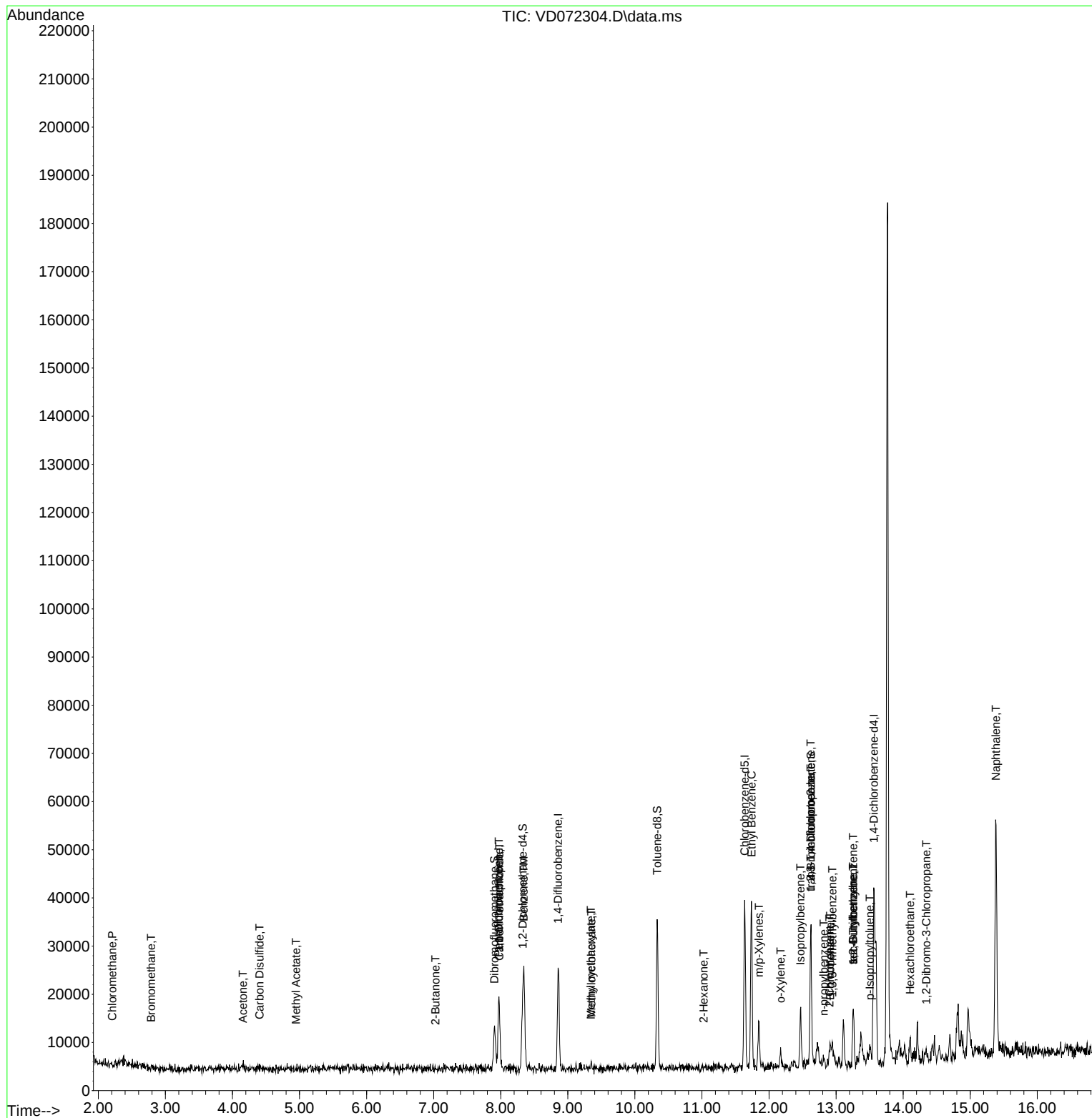
Internal Standards						
1) Pentafluorobenzene	7.967	168	10098	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	17504	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	19407	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	9845	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	7249	64.415	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 128.820%	
35) Dibromofluoromethane	7.903	113	6732	54.653	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 109.300%	
50) Toluene-d8	10.332	98	20177	44.798	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 89.600%	
62) 4-Bromofluorobenzene	12.626	95	9226	52.719	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 105.440%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.209	50	251	3.024	ug/l #	40
5) Bromomethane	2.785	94	95	1.821	ug/l #	1
16) Acetone	4.156	43	1163	47.598	ug/l #	47
17) Carbon Disulfide	4.403	76	299	2.840	ug/l #	74
18) Methyl Acetate	4.950	43	60	1.002	ug/l #	55
25) 2-Butanone	7.026	43	61	1.872	ug/l #	52
36) 1,1-Dichloropropene	7.973	75	755	4.369	ug/l #	43
38) Carbon Tetrachloride	7.979	117	962	4.898	ug/l #	13
39) Methylcyclohexane	9.350	83	234	1.203	ug/l #	65
40) Benzene	8.344	78	17254	34.999	ug/l	91
48) Methyl methacrylate	9.344	41	208	2.965	ug/l #	35
59) 2-Hexanone	11.026	43	68	1.276	ug/l #	27
67) Ethyl Benzene	11.738	91	23287	30.304	ug/l	94
68) m/p-Xylenes	11.849	106	3364	11.529	ug/l #	67
69) o-Xylene	12.173	106	1040	3.726	ug/l	87
73) Isopropylbenzene	12.467	105	7927	10.161	ug/l	92
76) 1,2,3-Trichloropropane	12.620	75	4468	41.142	ug/l #	100
77) Bromobenzene	12.914	156	664	3.781	ug/l #	17
78) n-propylbenzene	12.814	91	1836	1.937	ug/l #	75
79) 2-Chlorotoluene	12.902	91	564	1.029	ug/l #	42
80) 1,3,5-Trimethylbenzene	12.944	105	1870	2.790	ug/l	82
81) trans-1,4-Dichloro-2-b...	12.620	75	4468	102.078	ug/l #	7
83) tert-Butylbenzene	13.255	119	1018	1.732	ug/l #	46
84) 1,2,4-Trimethylbenzene	13.255	105	6778	10.263	ug/l	93
85) sec-Butylbenzene	13.255	105	6778	7.681	ug/l #	57
86) p-Isopropyltoluene	13.502	119	1032	1.421	ug/l #	65
90) Hexachloroethane	14.102	117	643	4.518	ug/l #	17
92) 1,2-Dibromo-3-Chloropr...	14.343	75	55	2.470	ug/l #	6
95) Naphthalene	15.385	128	43253	118.119	ug/l	98

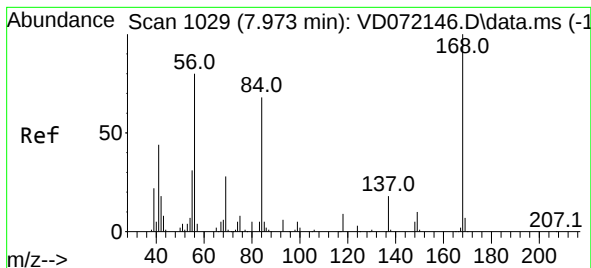
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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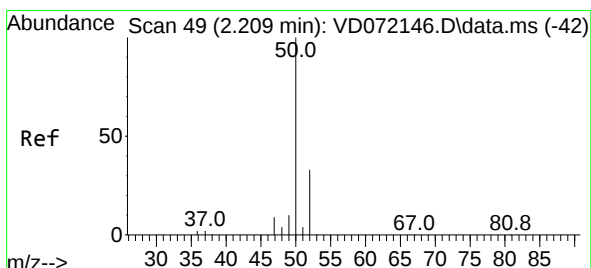
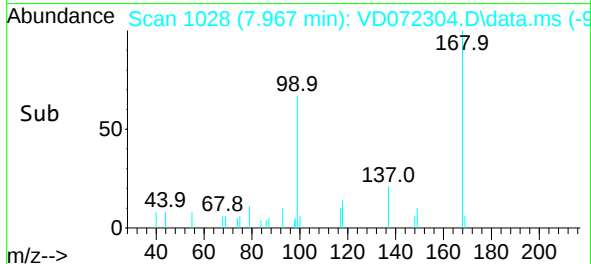
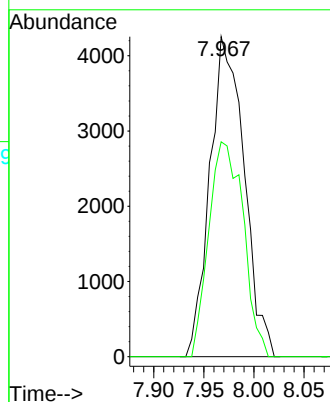
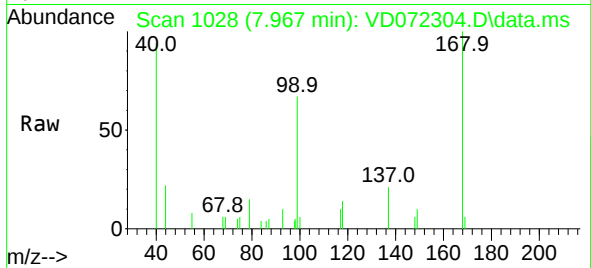




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.967 min Scan# 1028
Delta R.T. -0.006 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

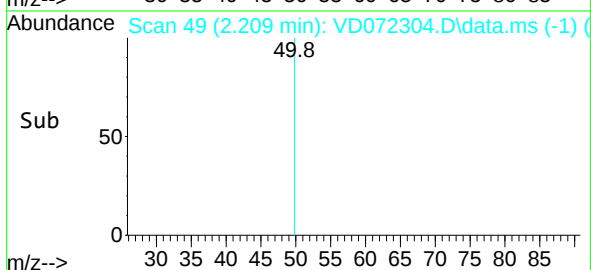
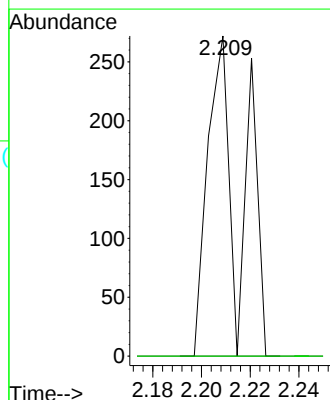
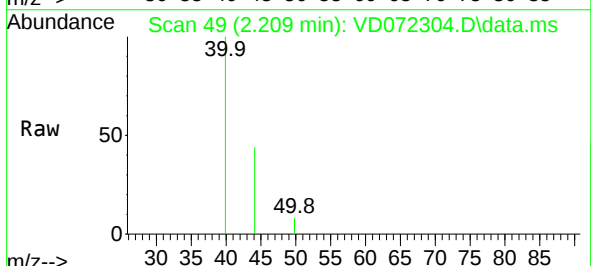
Instrument :
MSVOA_D
ClientSampleId :
C-23-25-28

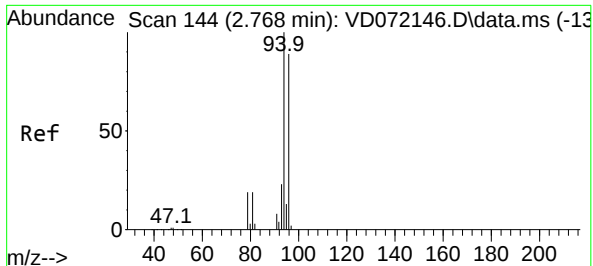
Tgt Ion:168 Resp: 10098
Ion Ratio Lower Upper
168 100
99 67.2 49.8 74.6



#3
Chloromethane
Concen: 3.024 ug/l
RT: 2.209 min Scan# 49
Delta R.T. 0.000 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

Tgt Ion: 50 Resp: 251
Ion Ratio Lower Upper
50 100
52 0.0 27.4 41.0#

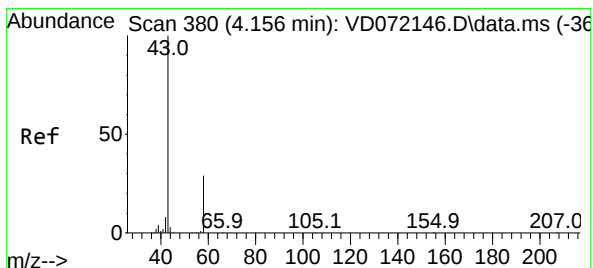
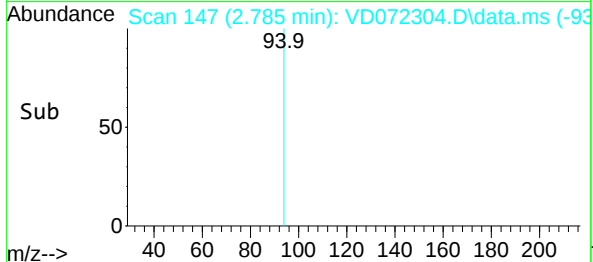
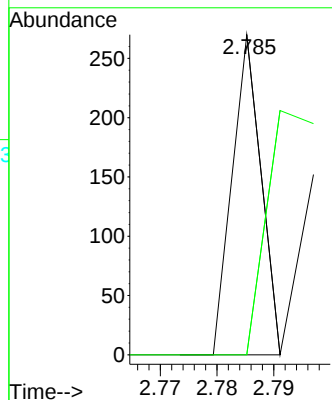
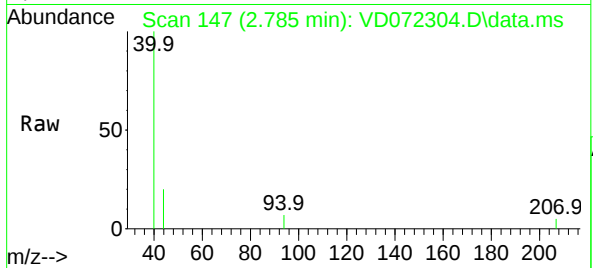




#5
Bromomethane
Concen: 1.821 ug/l
RT: 2.785 min Scan# 14
Delta R.T. 0.018 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

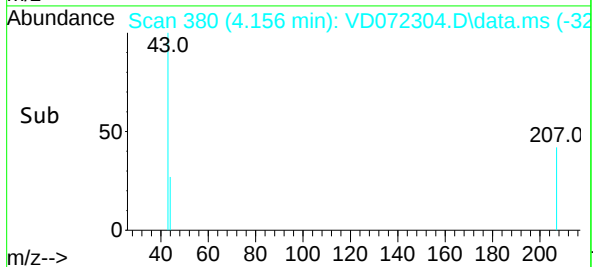
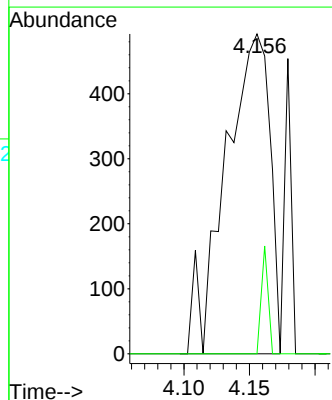
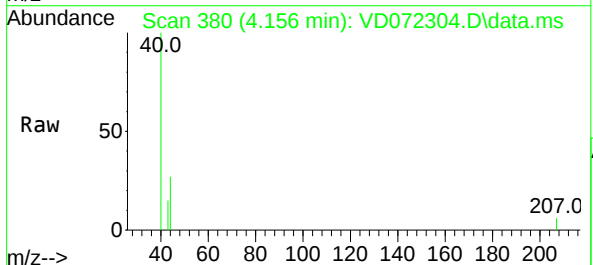
Instrument :
MSVOA_D
ClientSampleId :
C-23-25-28

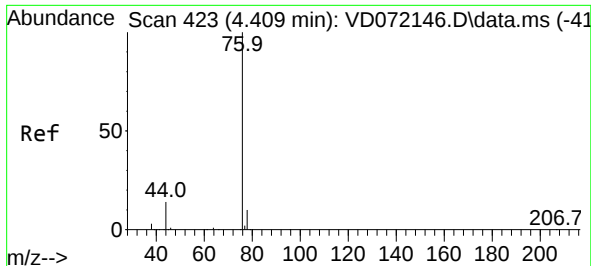
Tgt Ion: 94 Resp: 95
Ion Ratio Lower Upper
94 100
96 0.0 77.6 116.4#



#16
Acetone
Concen: 47.598 ug/l
RT: 4.156 min Scan# 380
Delta R.T. 0.000 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

Tgt Ion: 43 Resp: 1163
Ion Ratio Lower Upper
43 100
58 0.0 22.1 33.1#





#17

Carbon Disulfide

Concen: 2.840 ug/l

RT: 4.403 min Scan# 41

Delta R.T. -0.006 min

Lab File: VD072304.D

Acq: 18 Mar 2022 21:59

Instrument :

MSVOA_D

ClientSampleId :

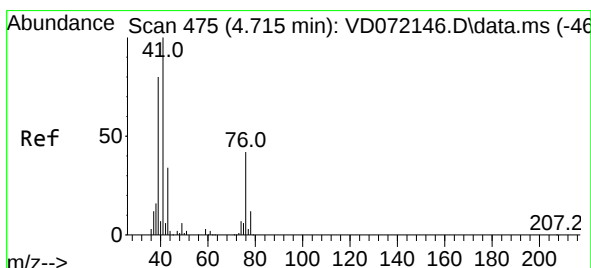
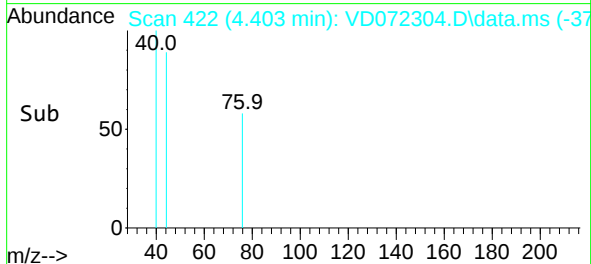
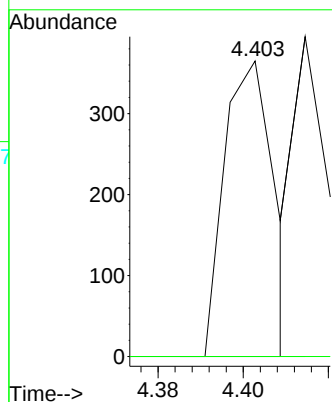
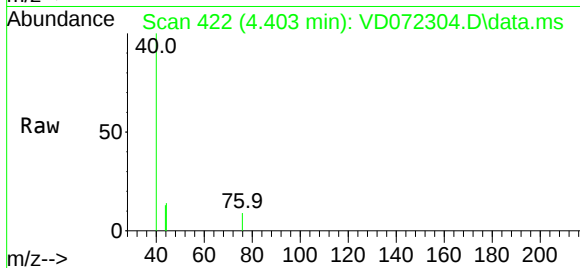
C-23-25-28

Tgt Ion: 76 Resp: 299

Ion Ratio Lower Upper

76 100

78 0.0 7.5 11.3#



#18

Methyl Acetate

Concen: 1.002 ug/l

RT: 4.950 min Scan# 515

Delta R.T. 0.235 min

Lab File: VD072304.D

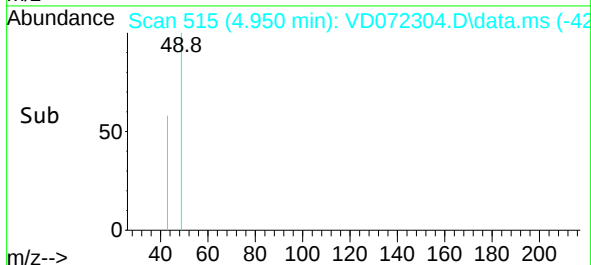
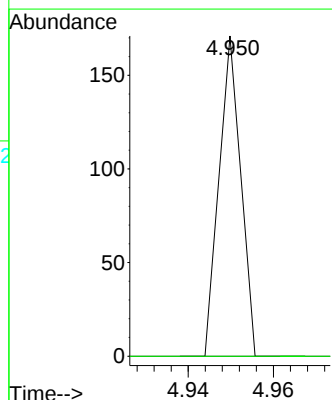
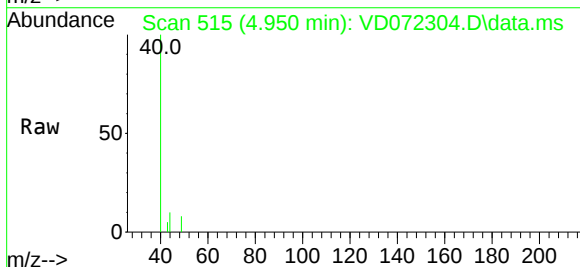
Acq: 18 Mar 2022 21:59

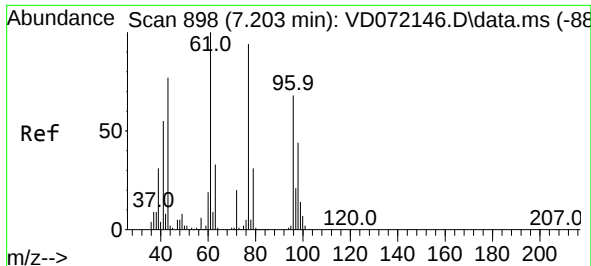
Tgt Ion: 43 Resp: 60

Ion Ratio Lower Upper

43 100

74 0.0 16.7 25.1#

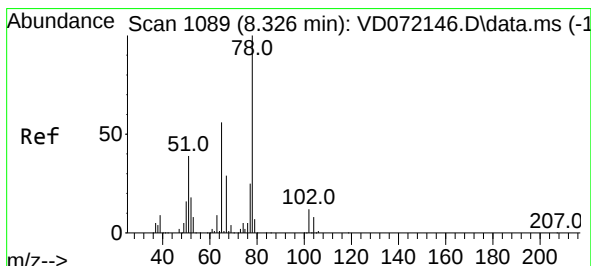
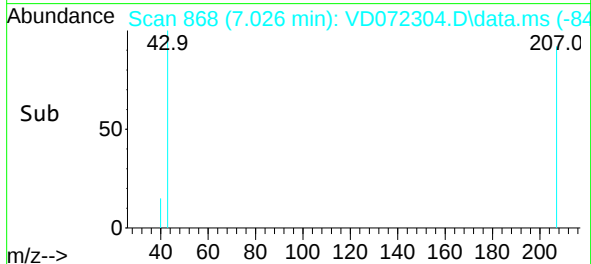
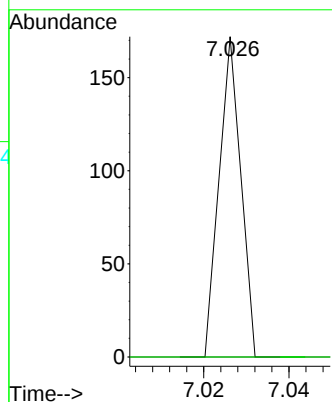
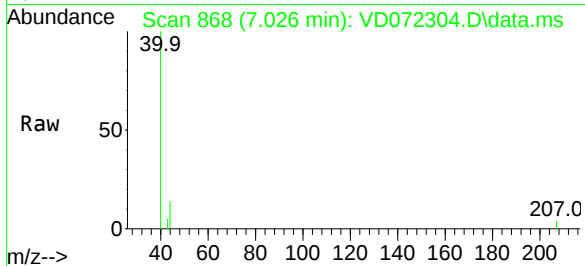




#25
2-Butanone
Concen: 1.872 ug/l
RT: 7.026 min Scan# 80
Delta R.T. -0.176 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

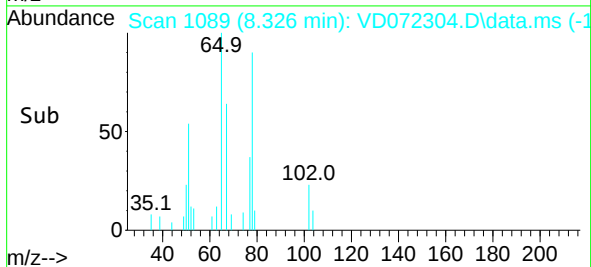
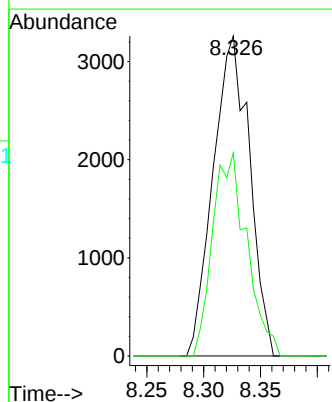
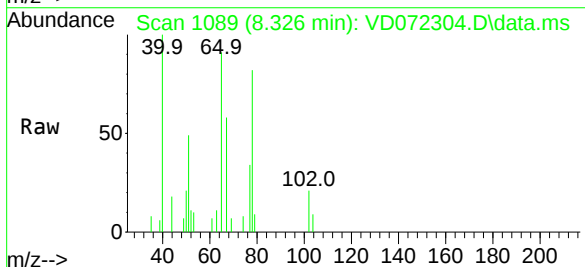
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C-23-25-28

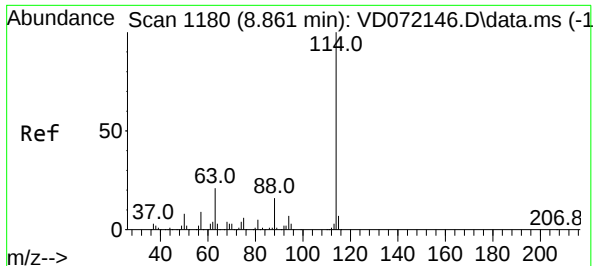
Tgt Ion: 43 Resp: 61
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#



#33
1,2-Dichloroethane-d4
Concen: 64.415 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

Tgt Ion: 65 Resp: 7249
Ion Ratio Lower Upper
65 100
67 59.7 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1180

Delta R.T. -0.006 min

Lab File: VD072304.D

Acq: 18 Mar 2022 21:59

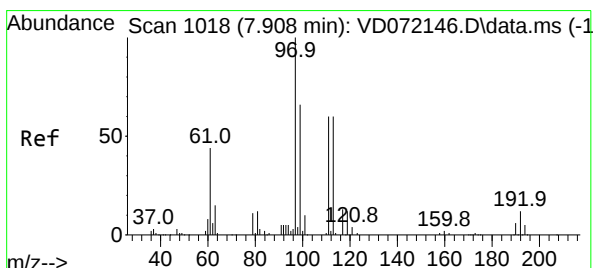
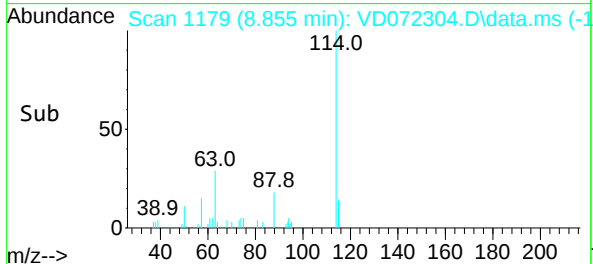
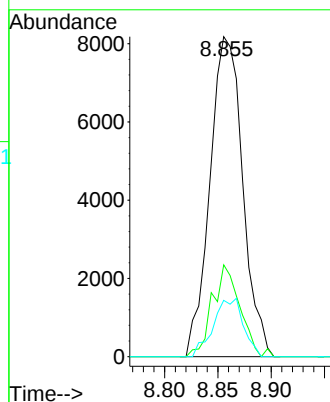
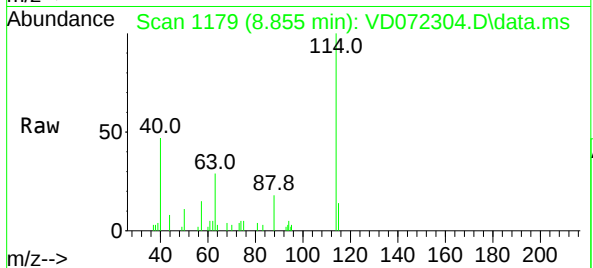
Instrument :

MSVOA_D

ClientSampleId :

C-23-25-28

Tgt Ion:114	Resp:	17504
Ion	Ratio	Lower Upper
114	100	
63	28.7	0.0 46.6
88	17.6	0.0 33.2



#35

Dibromofluoromethane

Concen: 54.653 ug/l

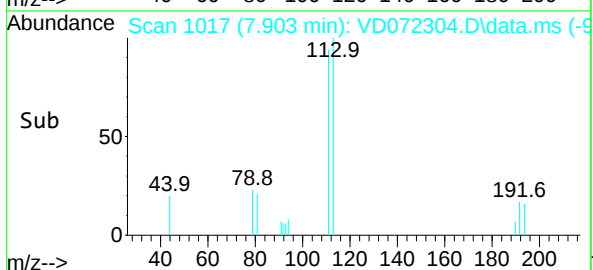
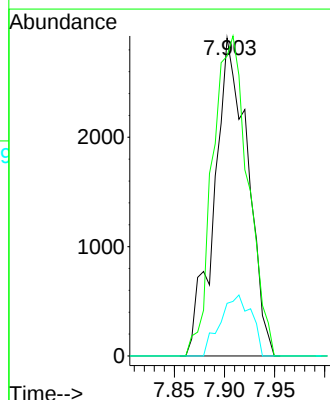
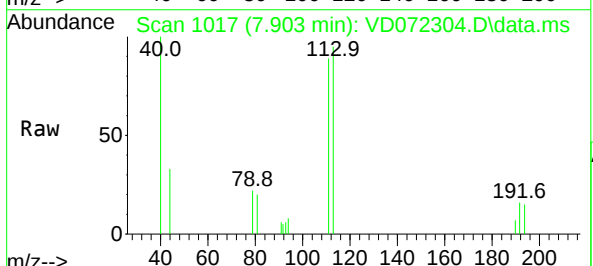
RT: 7.903 min Scan# 1017

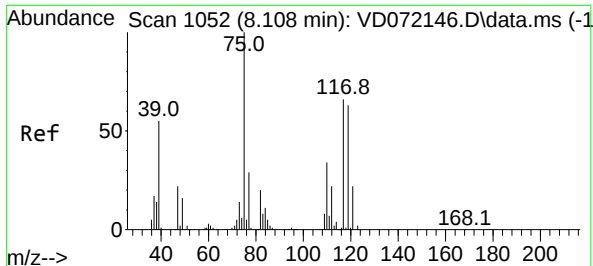
Delta R.T. -0.006 min

Lab File: VD072304.D

Acq: 18 Mar 2022 21:59

Tgt Ion:113	Resp:	6732
Ion	Ratio	Lower Upper
113	100	
111	106.7	83.8 125.6
192	17.8	14.6 21.8





#36

1,1-Dichloropropene

Concen: 4.369 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.135 min

Lab File: VD072304.D

Acq: 18 Mar 2022 21:59

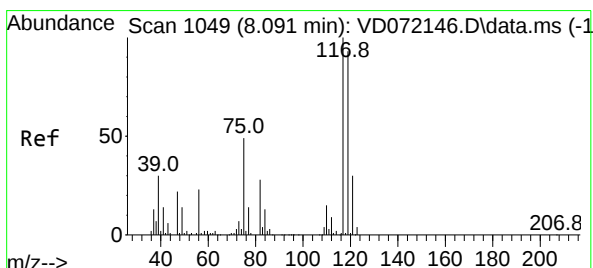
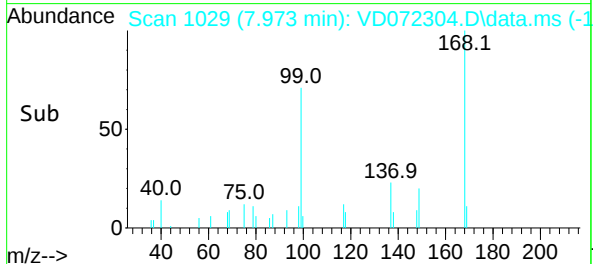
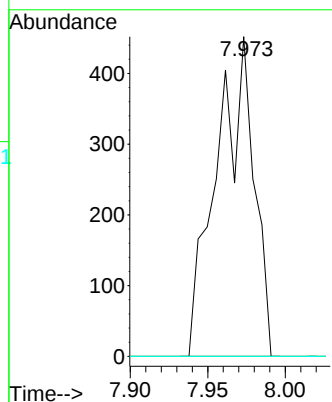
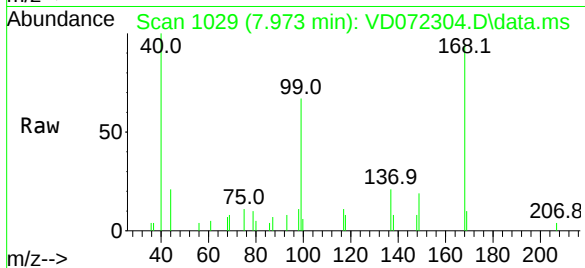
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C-23-25-28

Tgt Ion:	75	Resp:	755
Ion	Ratio	Lower	Upper
75	100		
110	0.0	16.4	49.1#
77	0.0	24.2	36.2#



#38

Carbon Tetrachloride

Concen: 4.898 ug/l

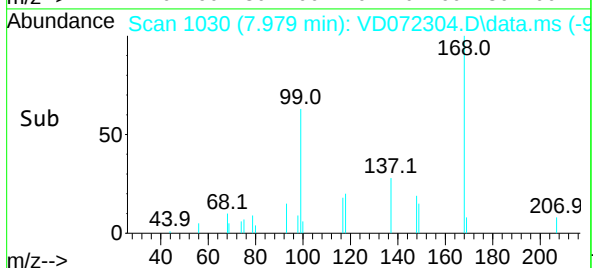
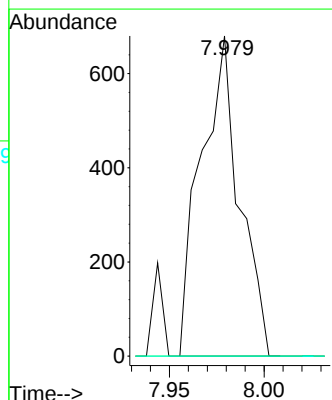
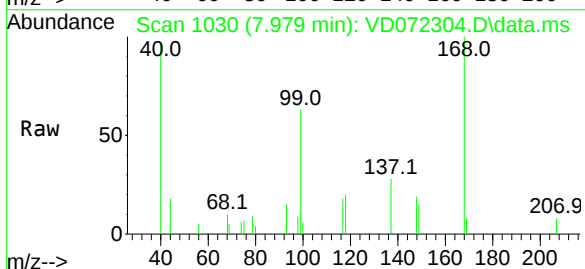
RT: 7.979 min Scan# 1030

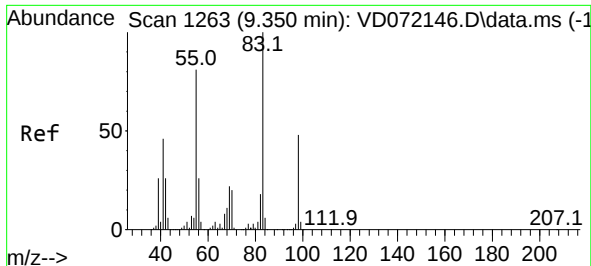
Delta R.T. -0.112 min

Lab File: VD072304.D

Acq: 18 Mar 2022 21:59

Tgt Ion:	117	Resp:	962
Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.8	113.6#
121	0.0	24.5	36.7#

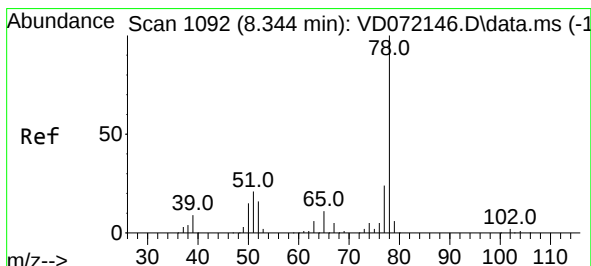
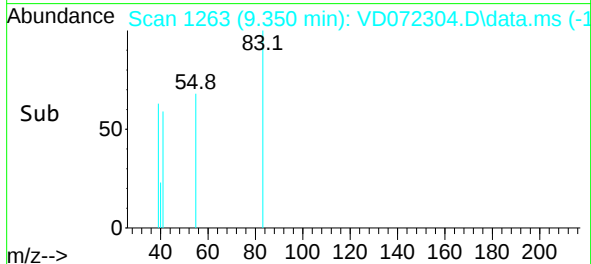
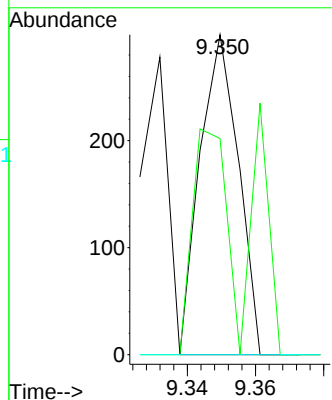
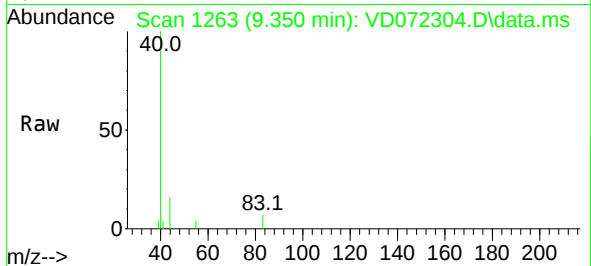




#39
Methylcyclohexane
Concen: 1.203 ug/l
RT: 9.350 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

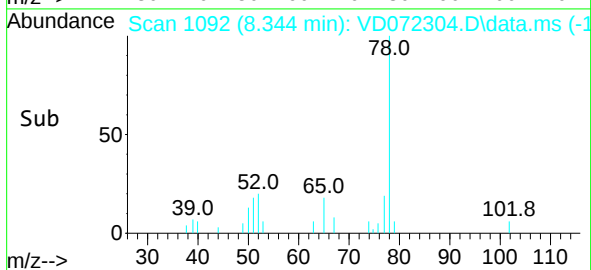
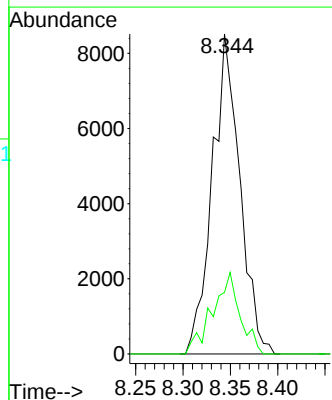
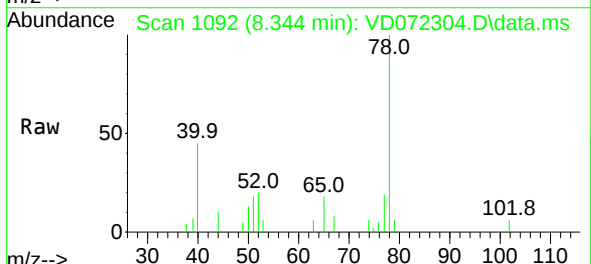
Instrument :
MSVOA_D
ClientSampleId :
C-23-25-28

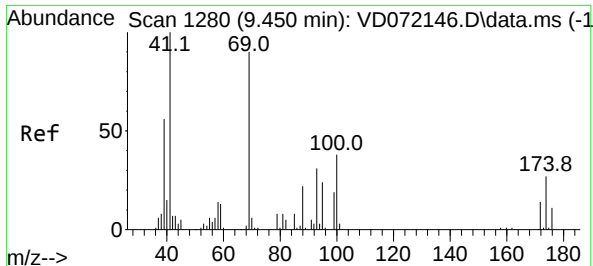
Tgt Ion: 83 Resp: 234
Ion Ratio Lower Upper
83 100
55 67.6 63.2 94.8
98 0.0 38.2 57.4#



#40
Benzene
Concen: 34.999 ug/l
RT: 8.344 min Scan# 1092
Delta R.T. 0.000 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

Tgt Ion: 78 Resp: 17254
Ion Ratio Lower Upper
78 100
77 19.2 19.1 28.7

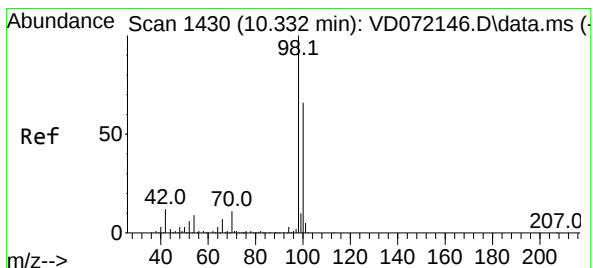
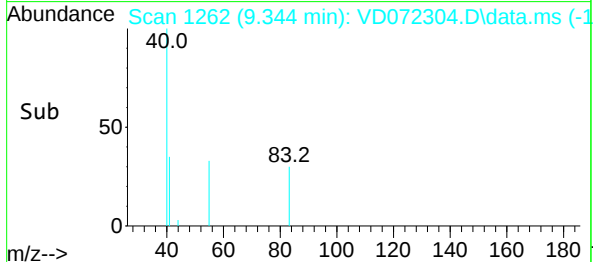
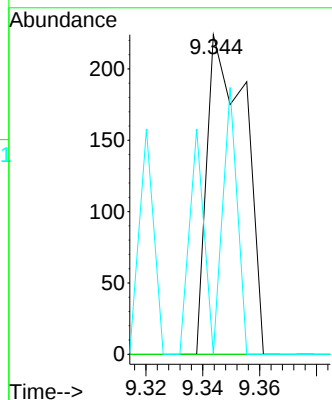
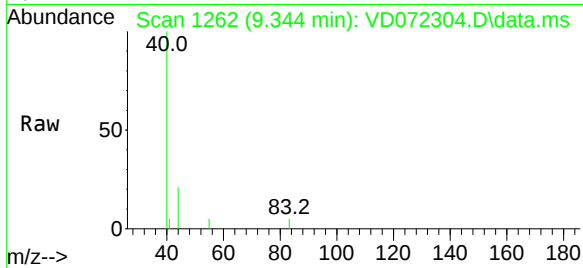




#48
Methyl methacrylate
Concen: 2.965 ug/l
RT: 9.344 min Scan# 11
Delta R.T. -0.106 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

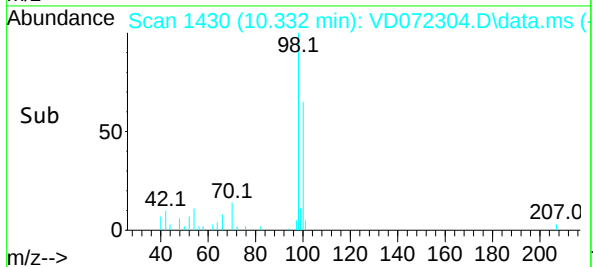
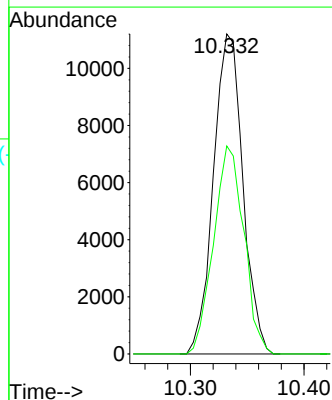
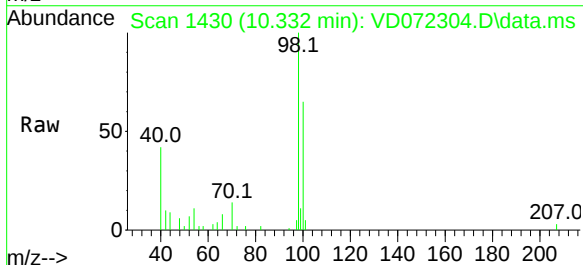
Instrument :
MSVOA_D
ClientSampleId :
C-23-25-28

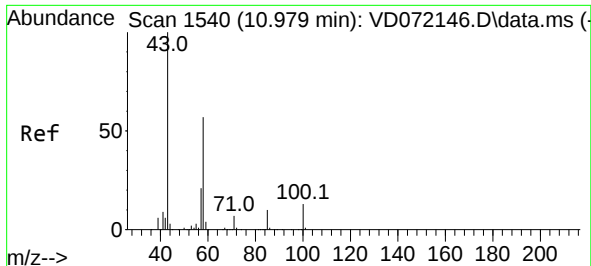
Tgt Ion: 41 Resp: 208
Ion Ratio Lower Upper
41 100
69 0.0 56.7 85.1#
39 26.9 42.7 64.1#



#50
Toluene-d8
Concen: 44.798 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

Tgt Ion: 98 Resp: 20177
Ion Ratio Lower Upper
98 100
100 66.9 52.4 78.6

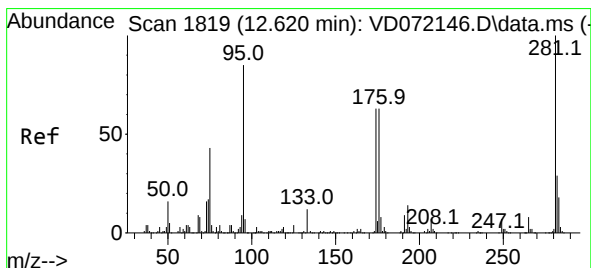
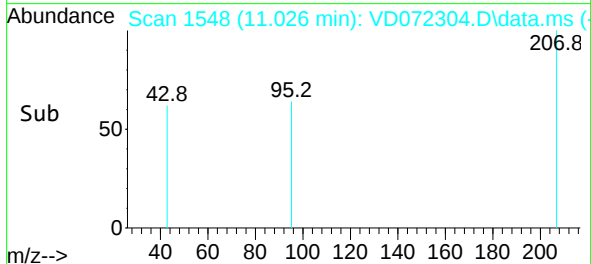
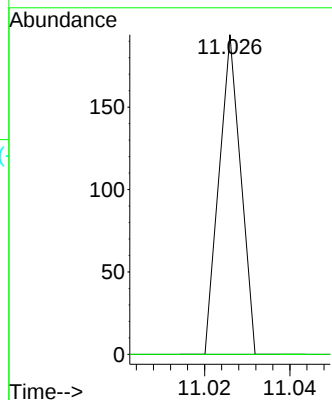
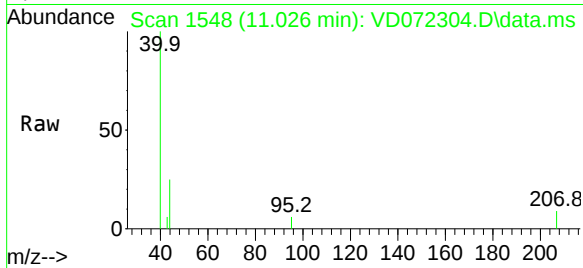




#59
2-Hexanone
Concen: 1.276 ug/l
RT: 11.026 min Scan# 11
Delta R.T. 0.047 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

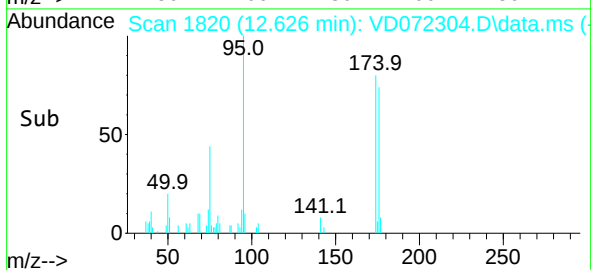
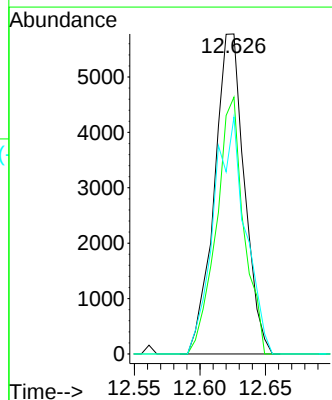
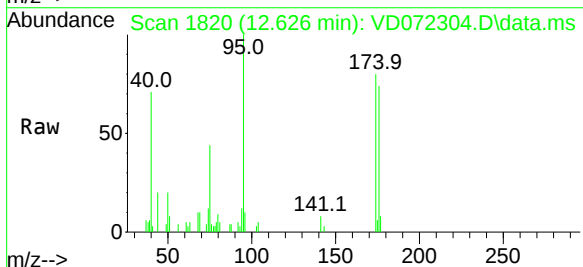
Instrument :
MSVOA_D
ClientSampleId :
C-23-25-28

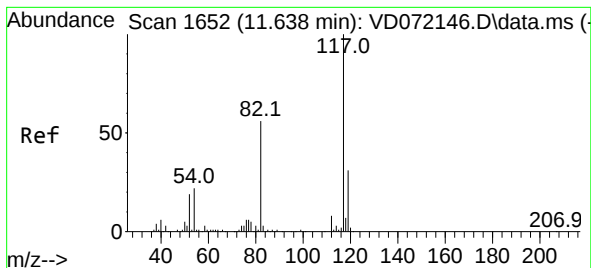
Tgt Ion: 43 Resp: 68
Ion Ratio Lower Upper
43 100
58 0.0 25.3 75.9#



#62
4-Bromofluorobenzene
Concen: 52.719 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.006 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

Tgt Ion: 95 Resp: 9226
Ion Ratio Lower Upper
95 100
174 73.4 0.0 152.8
176 78.6 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.638 min Scan# 1652

Delta R.T. 0.000 min

Lab File: VD072304.D

Acq: 18 Mar 2022 21:59

Instrument :

MSVOA_D

ClientSampleId :

C-23-25-28

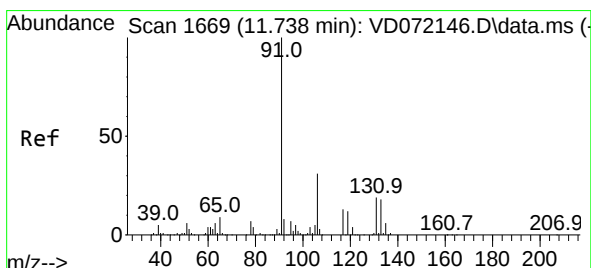
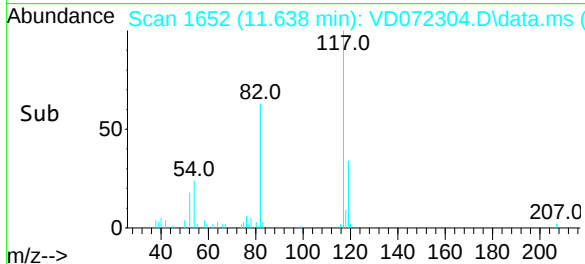
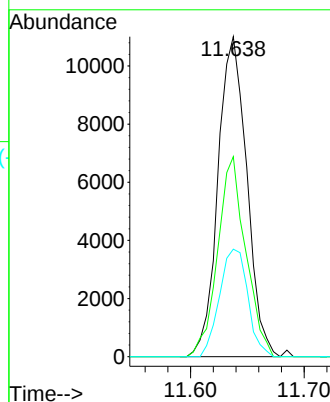
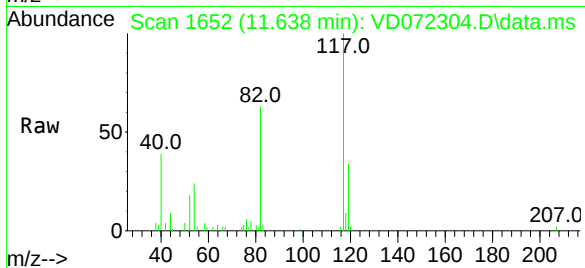
Tgt Ion:117 Resp: 19407

Ion Ratio Lower Upper

117 100

82 62.5 45.3 67.9

119 33.6 26.6 40.0



#67

Ethyl Benzene

Concen: 30.304 ug/l

RT: 11.738 min Scan# 1669

Delta R.T. 0.000 min

Lab File: VD072304.D

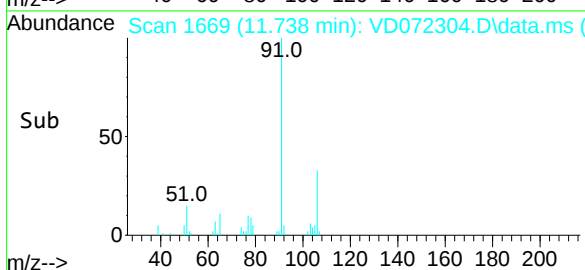
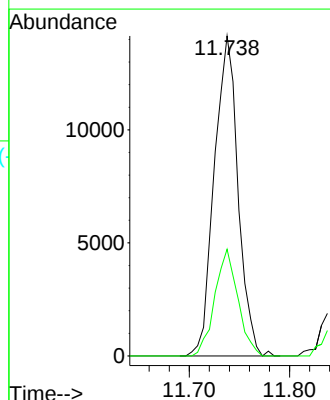
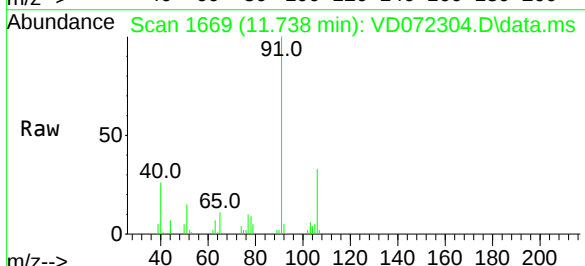
Acq: 18 Mar 2022 21:59

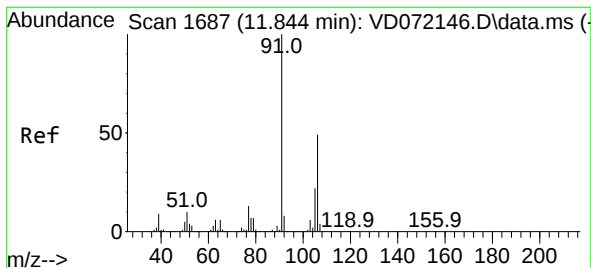
Tgt Ion: 91 Resp: 23287

Ion Ratio Lower Upper

91 100

106 33.3 24.2 36.4





#68

m/p-Xylenes

Concen: 11.529 ug/l

RT: 11.849 min Scan# 1

Delta R.T. 0.006 min

Lab File: VD072304.D

Acq: 18 Mar 2022 21:59

Instrument :

MSVOA_D

ClientSampleId :

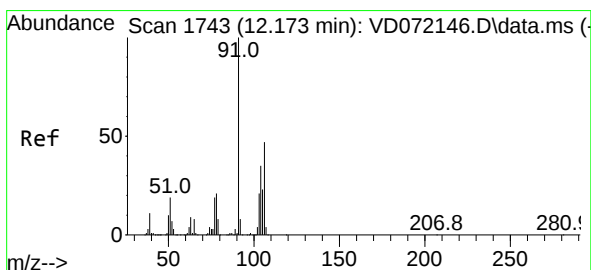
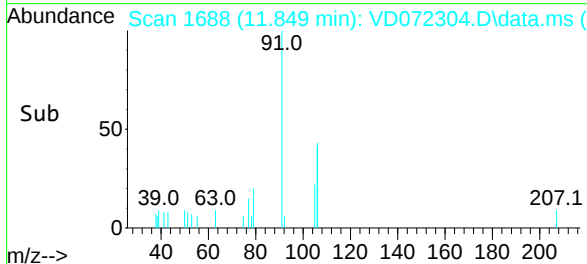
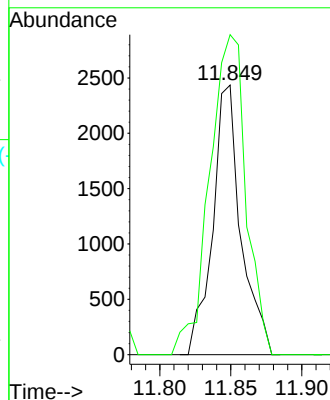
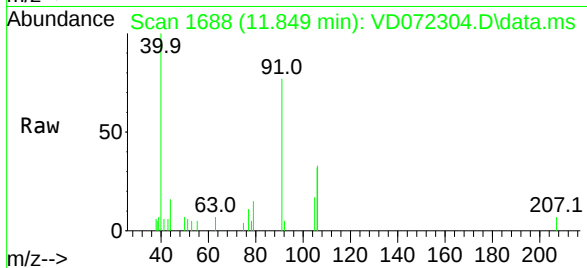
C-23-25-28

Tgt Ion:106 Resp: 3364

Ion Ratio Lower Upper

106 100

91 153.3 163.7 245.5#



#69

o-Xylene

Concen: 3.726 ug/l

RT: 12.173 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VD072304.D

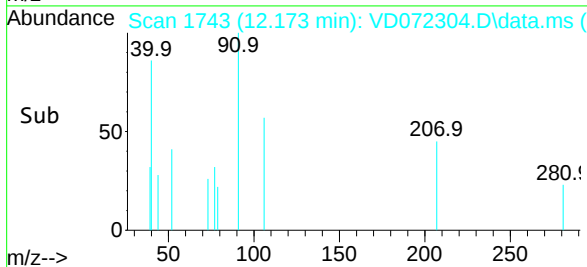
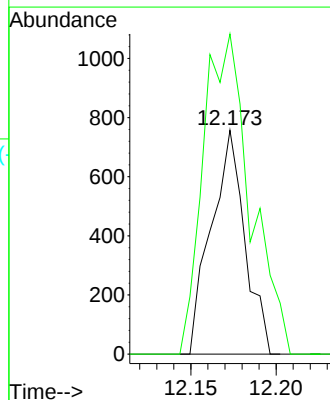
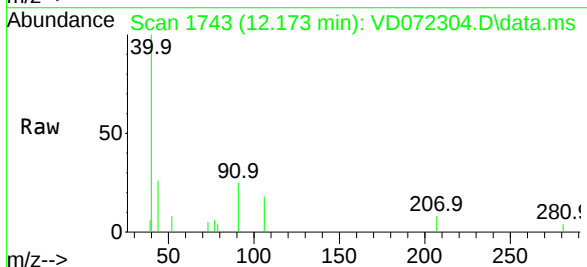
Acq: 18 Mar 2022 21:59

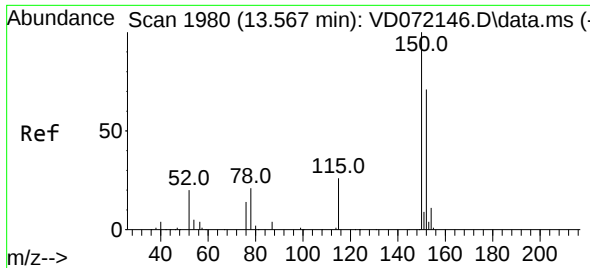
Tgt Ion:106 Resp: 1040

Ion Ratio Lower Upper

106 100

91 200.2 110.4 331.2

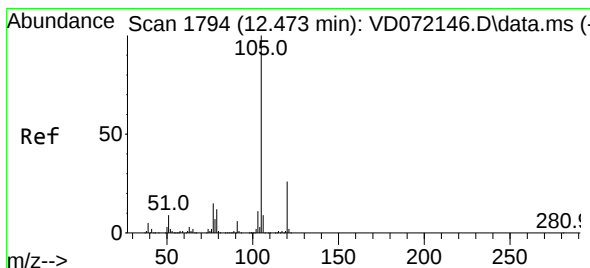
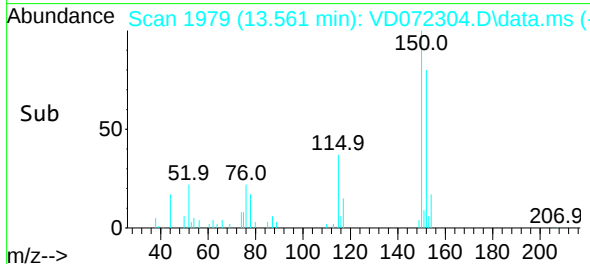
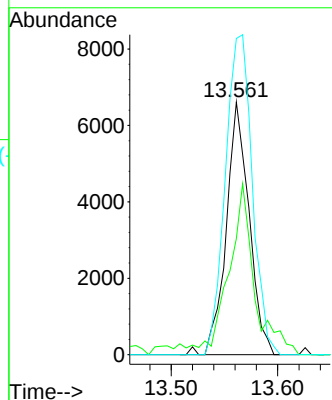
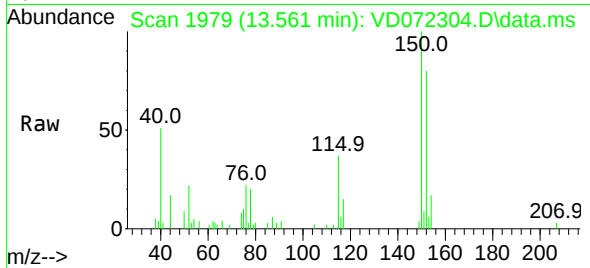




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1980
Delta R.T. -0.006 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

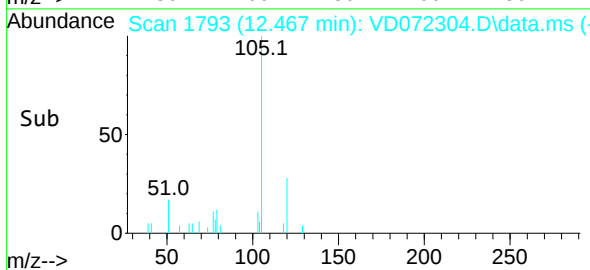
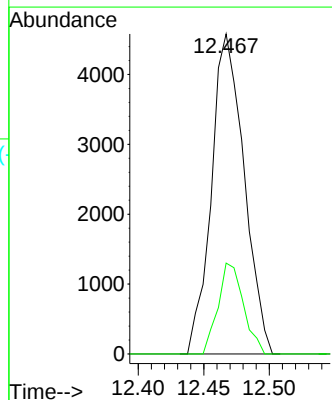
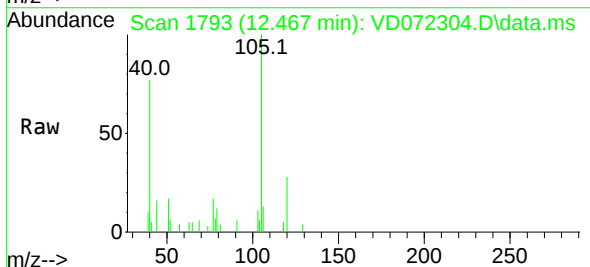
Instrument :
MSVOA_D
ClientSampleId :
C-23-25-28

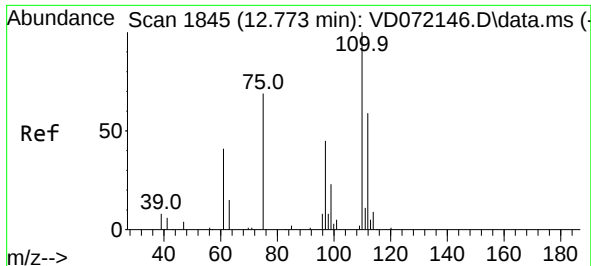
Tgt Ion:152 Resp: 9845
Ion Ratio Lower Upper
152 100
115 74.5 31.3 93.8
150 149.3 0.0 348.6



#73
Isopropylbenzene
Concen: 10.161 ug/l
RT: 12.467 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

Tgt Ion:105 Resp: 7927
Ion Ratio Lower Upper
105 100
120 22.0 13.0 38.9

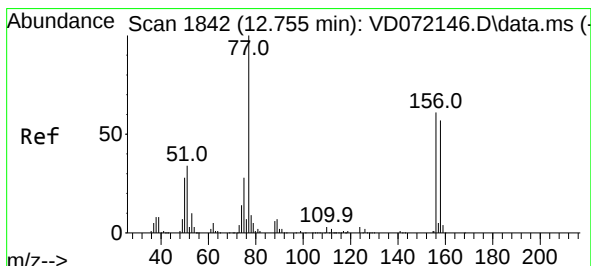
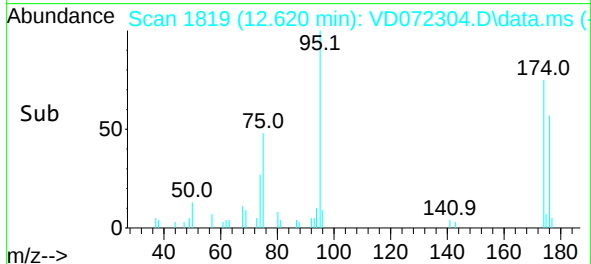
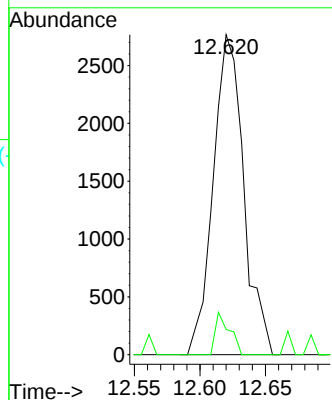
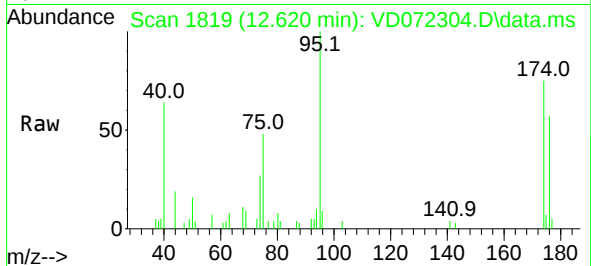




#76
1,2,3-Trichloropropane
Concen: 41.142 ug/l
RT: 12.620 min Scan# 1869
Delta R.T. -0.153 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

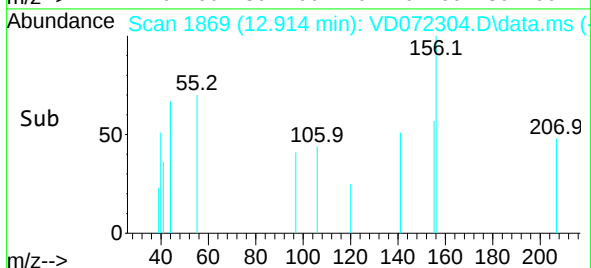
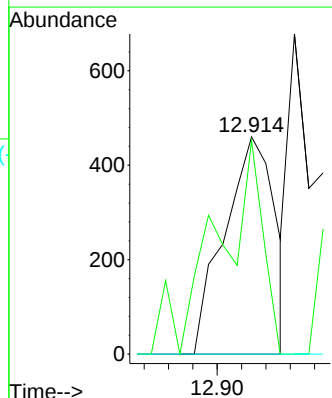
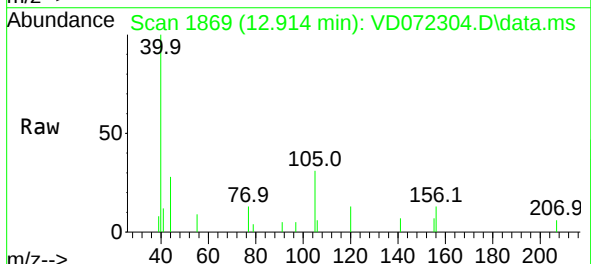
Instrument :
MSVOA_D
ClientSampleId :
C-23-25-28

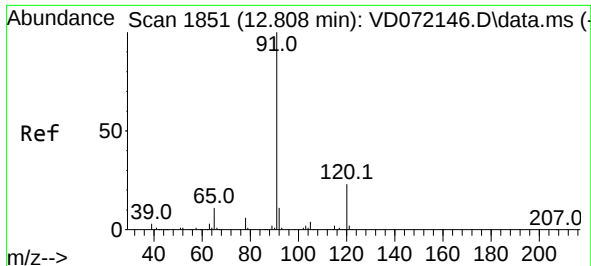
Tgt Ion: 75 Resp: 4468
Ion Ratio Lower Upper
75 100
77 6.2 0.0 0.0#



#77
Bromobenzene
Concen: 3.781 ug/l
RT: 12.914 min Scan# 1869
Delta R.T. 0.159 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

Tgt Ion:156 Resp: 664
Ion Ratio Lower Upper
156 100
77 90.2 102.8 308.3#
158 0.0 48.7 146.1#

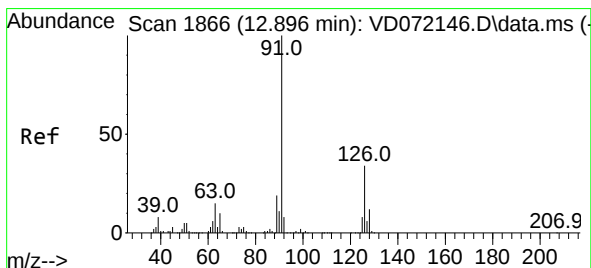
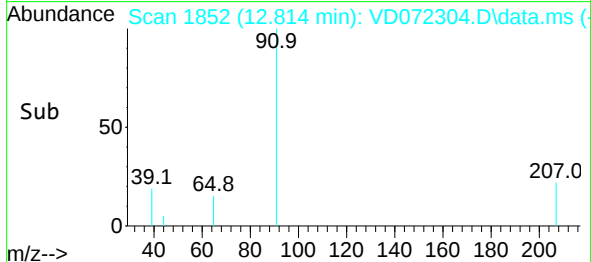
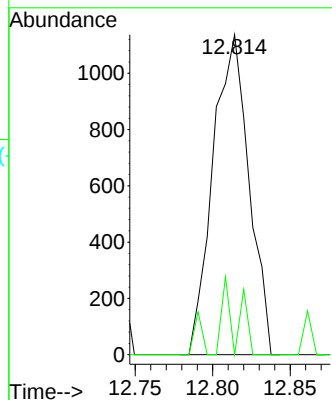
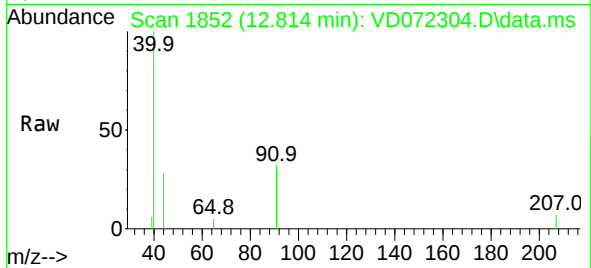




#78
n-propylbenzene
Concen: 1.937 ug/l
RT: 12.814 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

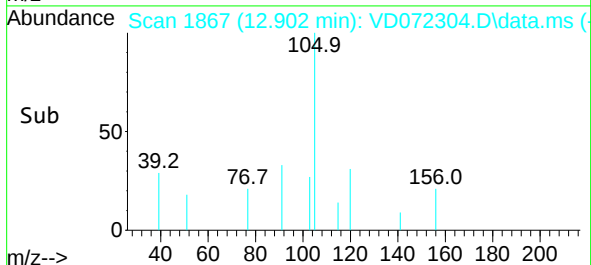
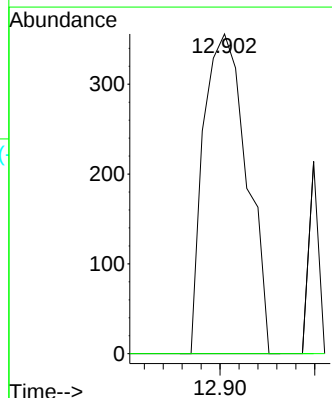
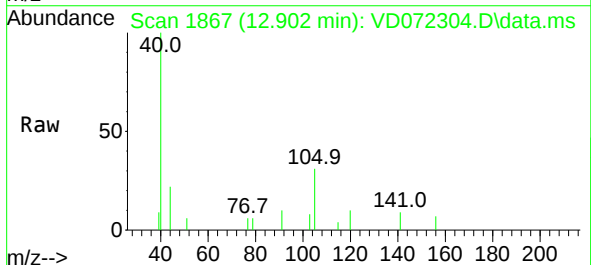
Instrument :
MSVOA_D
ClientSampleId :
C-23-25-28

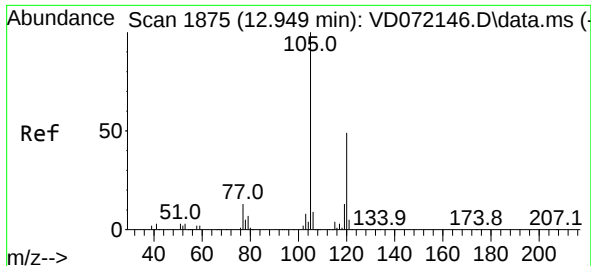
Tgt Ion: 91 Resp: 1836
Ion Ratio Lower Upper
91 100
120 9.8 10.9 32.9#



#79
2-Chlorotoluene
Concen: 1.029 ug/l
RT: 12.902 min Scan# 1867
Delta R.T. 0.006 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

Tgt Ion: 91 Resp: 564
Ion Ratio Lower Upper
91 100
126 0.0 16.2 48.6#

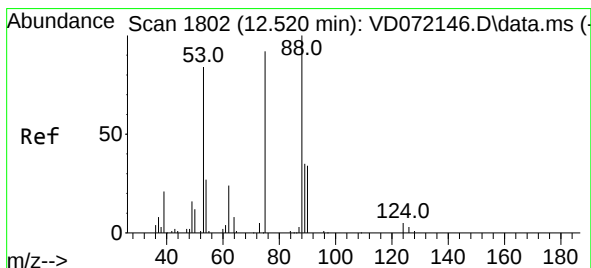
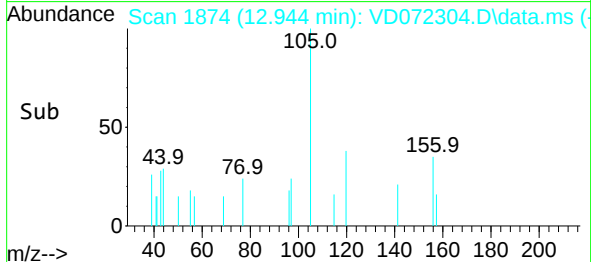
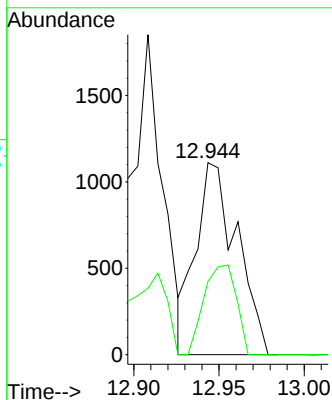
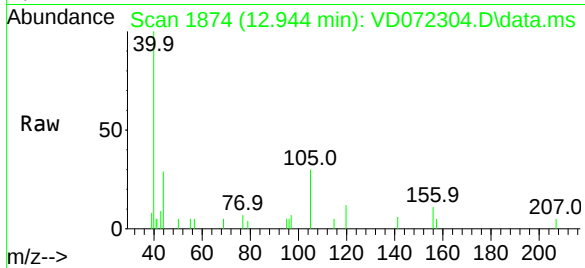




#80
 1,3,5-Trimethylbenzene
 Concen: 2.790 ug/l
 RT: 12.944 min Scan# 1875
 Delta R.T. -0.006 min
 Lab File: VD072304.D
 Acq: 18 Mar 2022 21:59

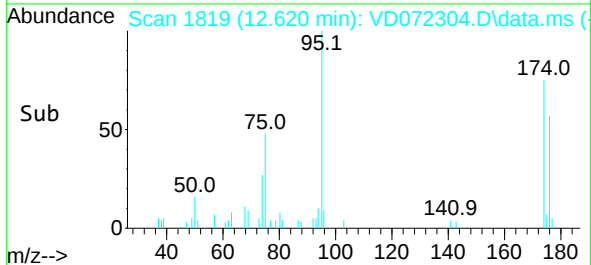
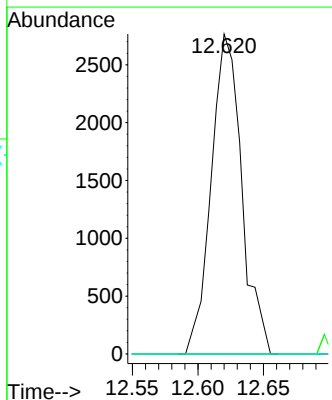
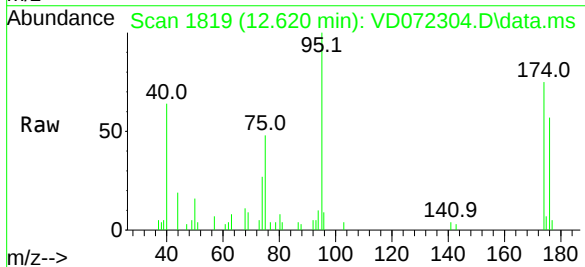
Instrument :
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 C-23-25-28

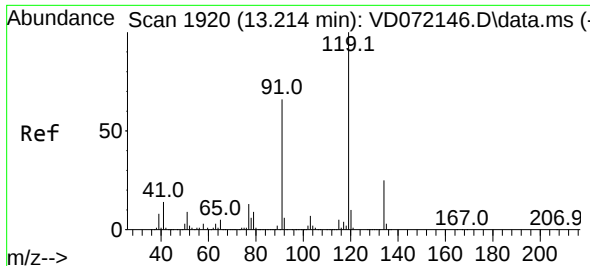
Tgt Ion:105 Resp: 1870
 Ion Ratio Lower Upper
 105 100
 120 36.5 24.3 72.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 102.078 ug/l
 RT: 12.620 min Scan# 1819
 Delta R.T. 0.100 min
 Lab File: VD072304.D
 Acq: 18 Mar 2022 21:59

Tgt Ion: 75 Resp: 4468
 Ion Ratio Lower Upper
 75 100
 53 0.0 86.5 129.7#
 89 0.0 33.9 50.9#

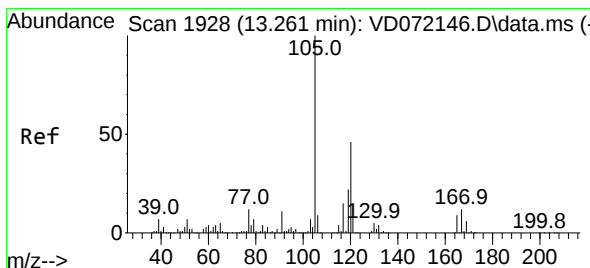
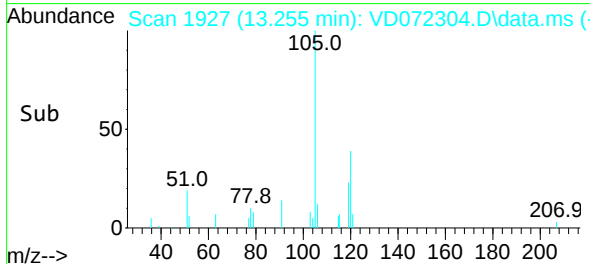
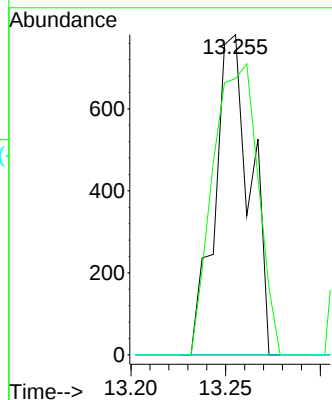
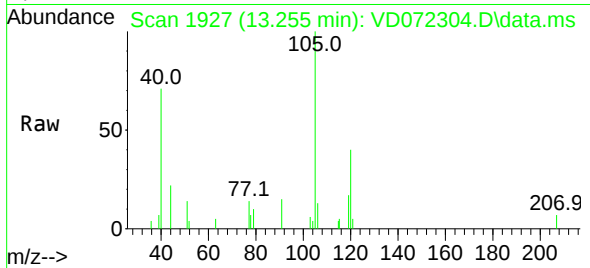




#83
tert-Butylbenzene
Concen: 1.732 ug/l
RT: 13.255 min Scan# 1927
Delta R.T. 0.041 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

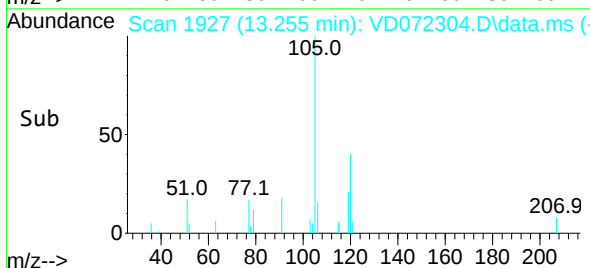
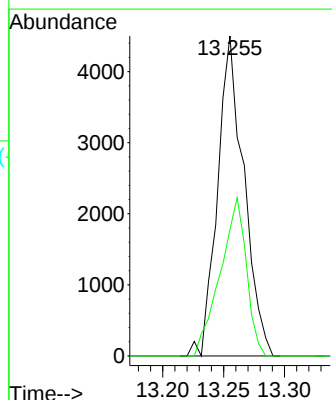
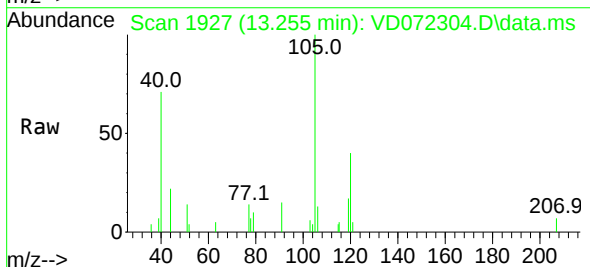
Instrument :
MSVOA_D
ClientSampleId :
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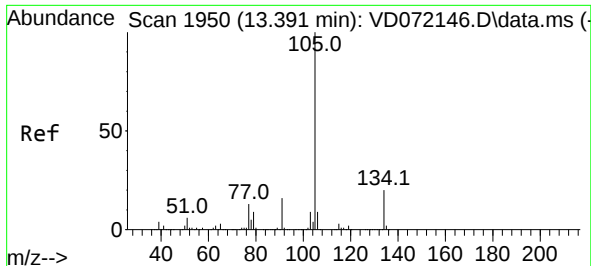
Tgt Ion:119 Resp: 1018
Ion Ratio Lower Upper
119 100
91 115.0 34.8 104.5#
134 0.0 13.3 39.9#



#84
1,2,4-Trimethylbenzene
Concen: 10.263 ug/l
RT: 13.255 min Scan# 1927
Delta R.T. -0.006 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

Tgt Ion:105 Resp: 6778
Ion Ratio Lower Upper
105 100
120 49.0 22.3 66.8

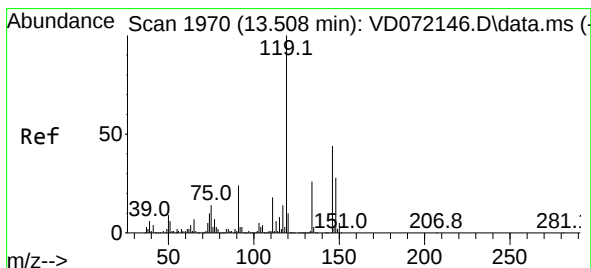
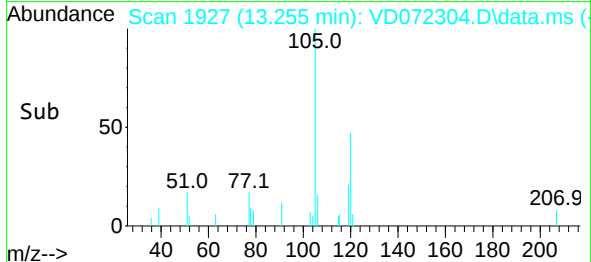
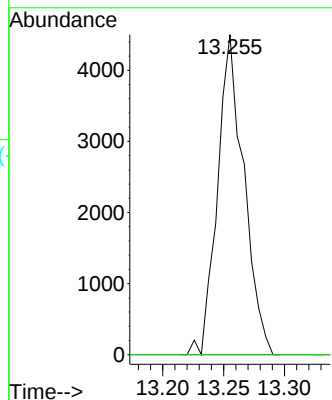
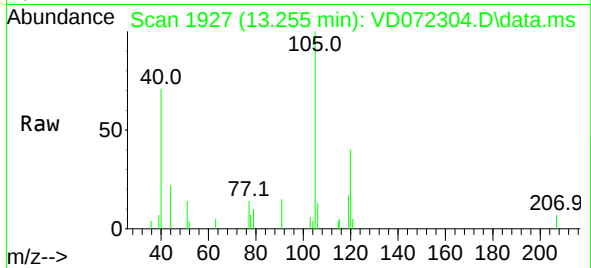




#85
 sec-Butylbenzene
 Concen: 7.681 ug/l
 RT: 13.255 min Scan# 1927
 Delta R.T. -0.135 min
 Lab File: VD072304.D
 Acq: 18 Mar 2022 21:59

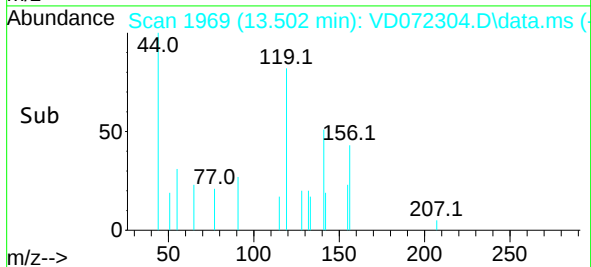
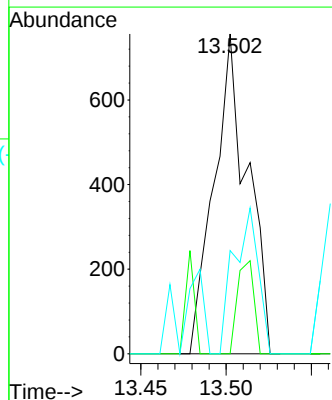
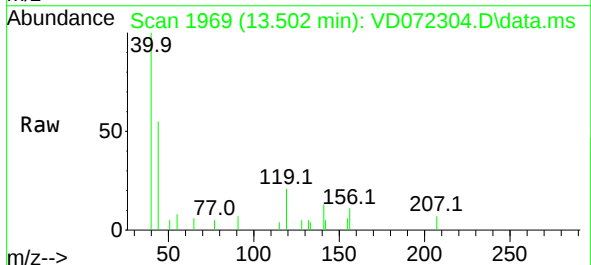
Instrument :
 MSVOA_D
 ClientSampleId :
 C-23-25-28

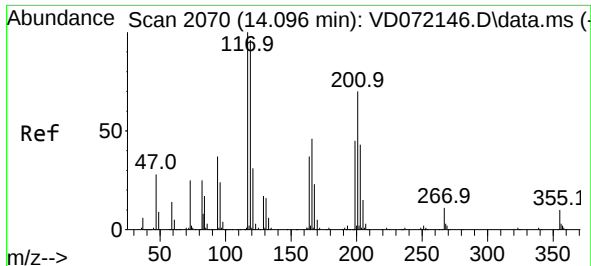
Tgt Ion:105 Resp: 6778
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.3#



#86
 p-Isopropyltoluene
 Concen: 1.421 ug/l
 RT: 13.502 min Scan# 1969
 Delta R.T. -0.006 min
 Lab File: VD072304.D
 Acq: 18 Mar 2022 21:59

Tgt Ion:119 Resp: 1032
 Ion Ratio Lower Upper
 119 100
 134 14.2 12.9 38.6
 91 0.0 12.1 36.3#

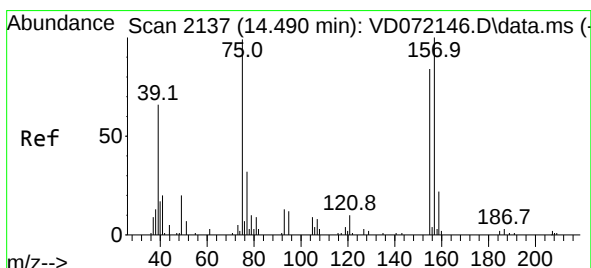
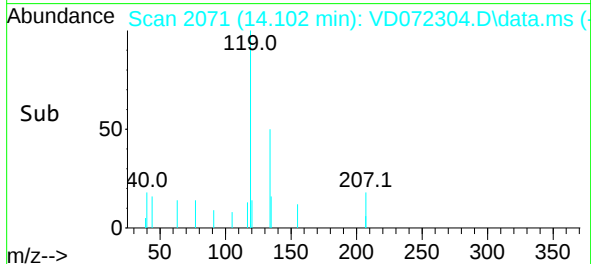
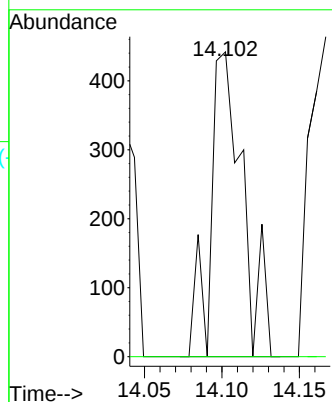
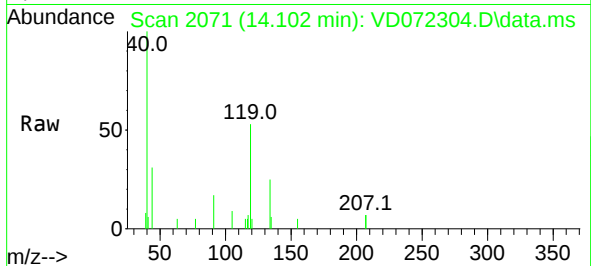




#90
Hexachloroethane
Concen: 4.518 ug/l
RT: 14.102 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

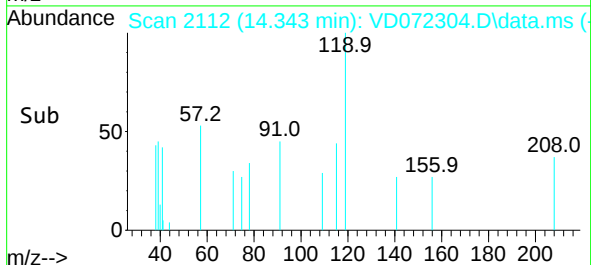
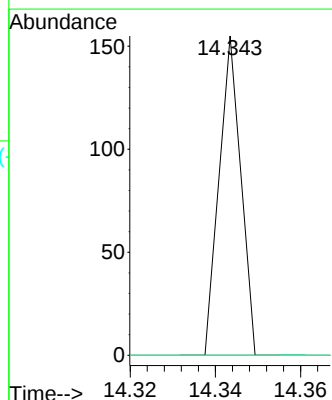
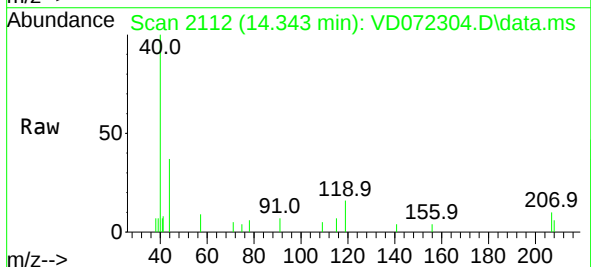
Instrument :
MSVOA_D
ClientSampleId :
C-23-25-28

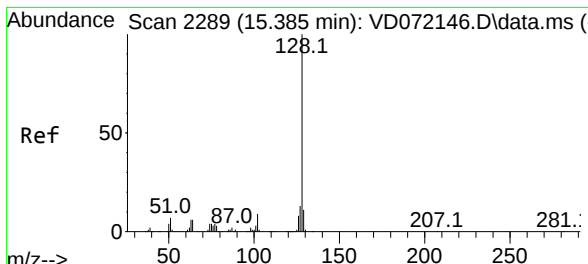
Tgt Ion:117 Resp: 643
Ion Ratio Lower Upper
117 100
201 0.0 33.4 100.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: 2.470 ug/l
RT: 14.343 min Scan# 2112
Delta R.T. -0.147 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

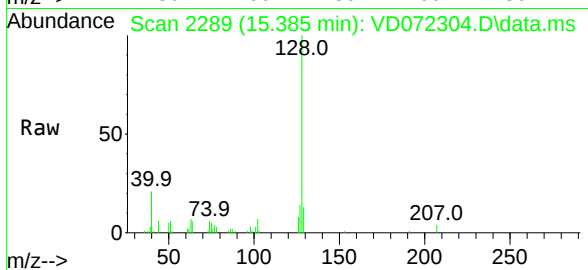
Tgt Ion: 75 Resp: 55
Ion Ratio Lower Upper
75 100
155 0.0 36.8 110.3#
157 0.0 48.4 145.0#





#95
Naphthalene
Concen: 118.119 ug/l
RT: 15.385 min Scan# 21
Delta R.T. 0.000 min
Lab File: VD072304.D
Acq: 18 Mar 2022 21:59

Instrument :
MSVOA_D
ClientSampleId :
C-23-25-28



Tgt Ion:	128	Resp:	43253
Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.3	15.5
129	11.1	8.4	12.6

