

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD102523\
 Data File : VD077420.D
 Acq On : 25 Oct 2023 17:56
 Operator : JC/SY
 Sample : 05040-01
 Misc : 4.05G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 26 07:02:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D101723S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 18 03:02:43 2023
 Response via : Initial Calibration

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

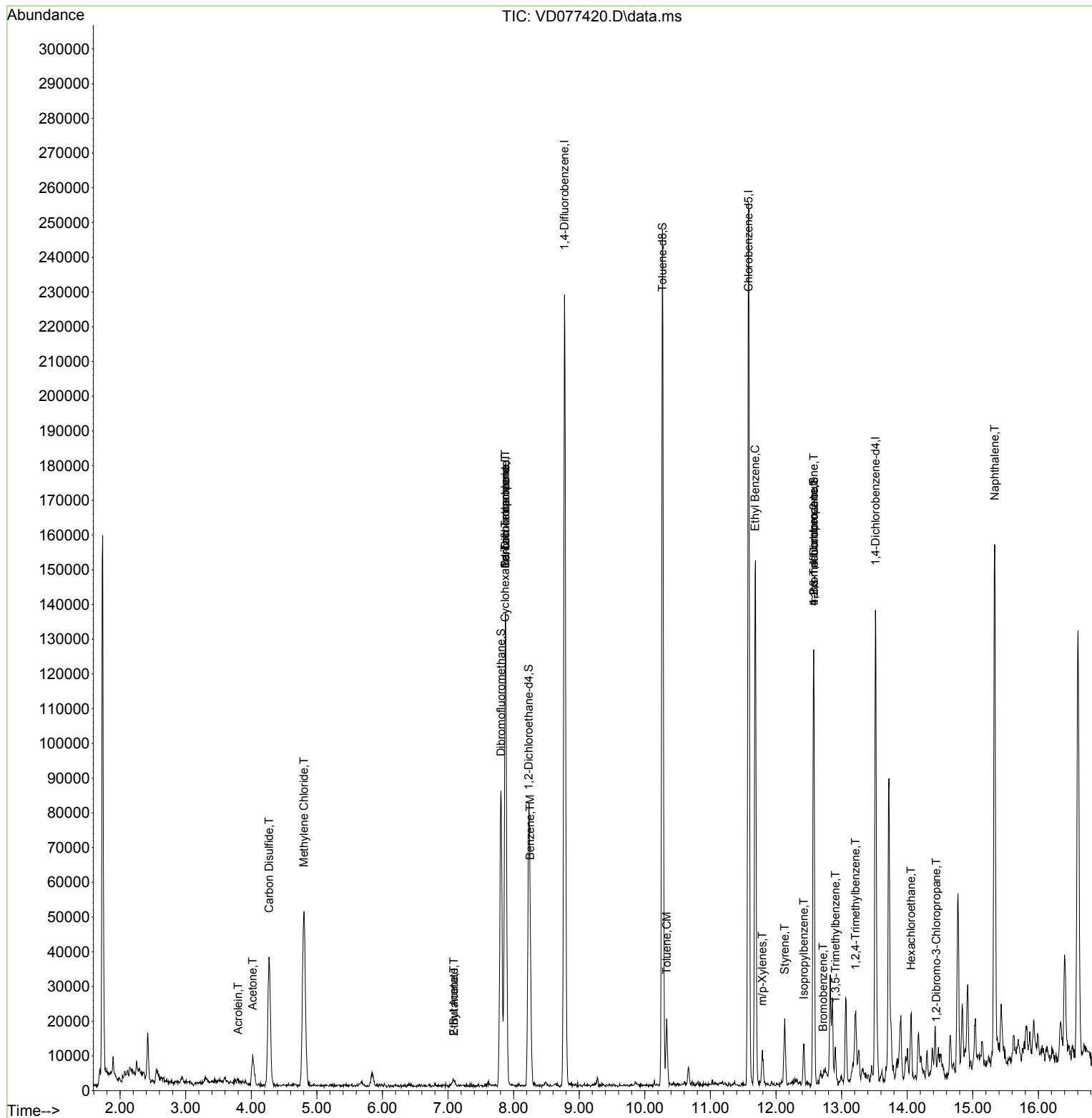
Internal Standards						
1) Pentafluorobenzene	7.875	168	110751	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	216756	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	158367	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	38290	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	52024	52.606	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 105.220%	
35) Dibromofluoromethane	7.810	113	64782	42.541	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 85.080%	
50) Toluene-d8	10.269	98	176280	32.323	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 64.640%	
62) 4-Bromofluorobenzene	12.575	95	35756	22.776	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 45.560%	
Target Compounds						
					Qvalue	
13) Acrolein	3.799	56	223	2.309	ug/l #	60
16) Acetone	4.022	43	14141	65.207	ug/l	91
17) Carbon Disulfide	4.269	76	80996	21.607	ug/l	96
20) Methylene Chloride	4.805	84	45820	33.318	ug/l	99
25) 2-Butanone	7.087	43	2935	13.047	ug/l #	82
31) Cyclohexane	7.869	56	2060	1.339	ug/l #	1
36) 1,1-Dichloropropene	7.875	75	8102	4.049	ug/l #	47
37) Ethyl Acetate	7.087	43	2935	4.670	ug/l #	62
38) Carbon Tetrachloride	7.875	117	9817	4.410	ug/l #	16
40) Benzene	8.252	78	30928	5.093	ug/l	97
52) Toluene	10.334	92	8662	2.185	ug/l	87
67) Ethyl Benzene	11.681	91	114496	20.009	ug/l	95
68) m/p-Xylenes	11.793	106	3125	1.330	ug/l	80
70) Styrene	12.134	104	8502	2.304	ug/l	97
73) Isopropylbenzene	12.422	105	6243	2.465	ug/l	96
76) 1,2,3-Trichloropropane	12.575	75	18938	37.175	ug/l #	100
77) Bromobenzene	12.716	156	991	1.490	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.904	105	3874	1.854	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.575	75	18938	132.528	ug/l #	17
84) 1,2,4-Trimethylbenzene	13.210	105	8314	3.951	ug/l	99
90) Hexachloroethane	14.057	117	905	1.848	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.445	75	74	1.314	ug/l #	1
95) Naphthalene	15.334	128	140112	112.678	ug/l	99

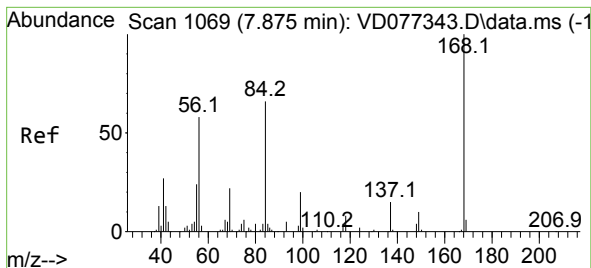
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 18 03:02:43 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.875 min Scan# 110

Delta R.T. 0.000 min

Lab File: VD077420.D

Acq: 25 Oct 2023 17:56

Instrument :

MSVOA_D

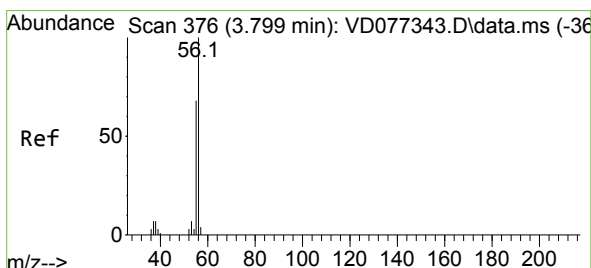
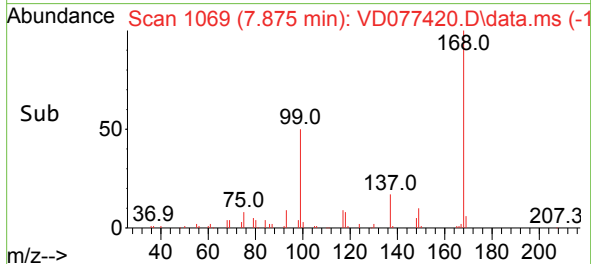
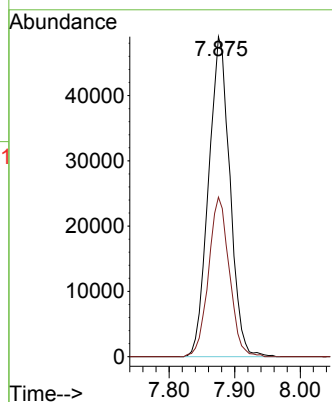
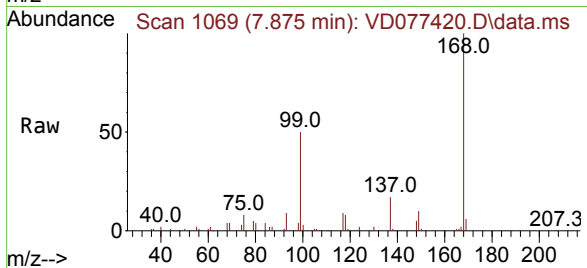
ClientSampleId :

Tgt Ion:168 Resp: 110751

Ion Ratio Lower Upper

168 100

99 49.9 36.7 55.1



#13

Acrolein

Concen: 2.309 ug/l

RT: 3.799 min Scan# 376

Delta R.T. -0.000 min

Lab File: VD077420.D

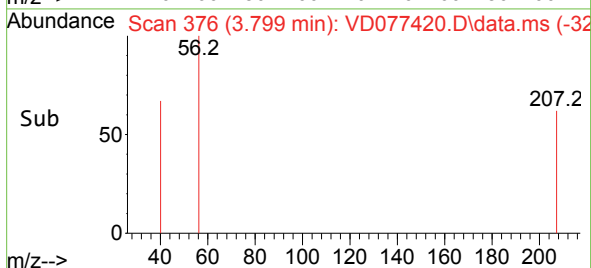
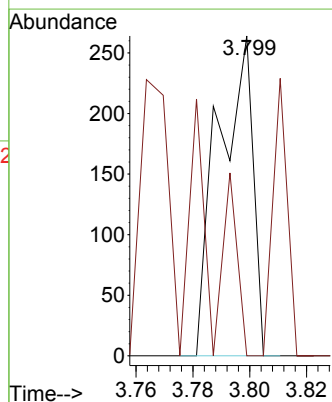
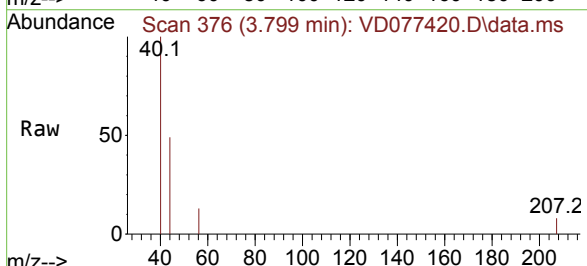
Acq: 25 Oct 2023 17:56

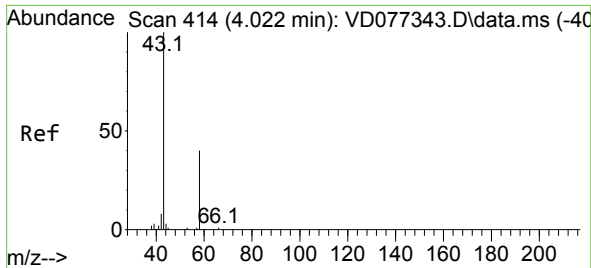
Tgt Ion: 56 Resp: 223

Ion Ratio Lower Upper

56 100

55 36.3 55.1 82.7#

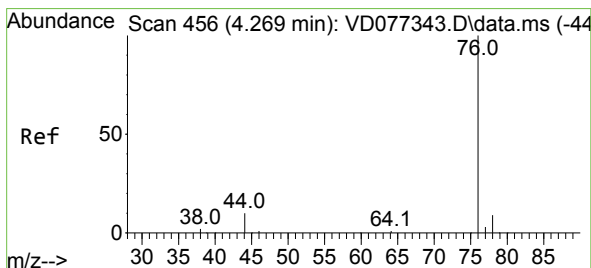
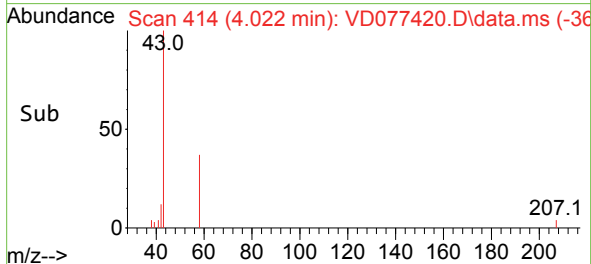
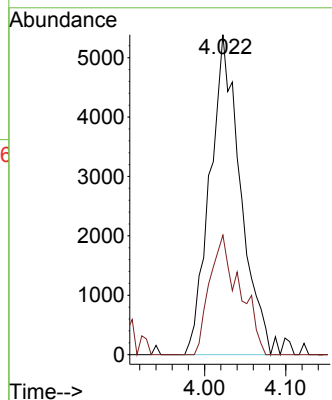
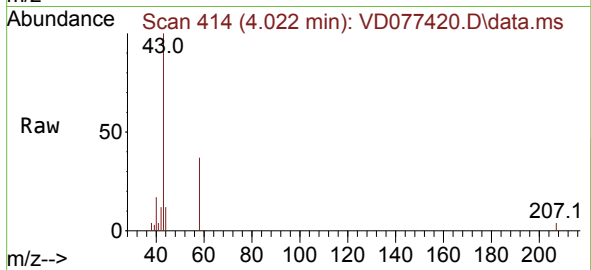




#16
Acetone
Concen: 65.207 ug/l
RT: 4.022 min Scan# 414
Delta R.T. 0.000 min
Lab File: VD077420.D
Acq: 25 Oct 2023 17:56

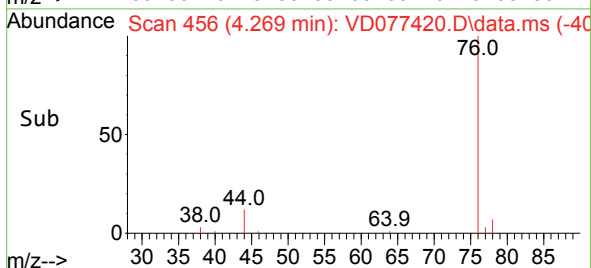
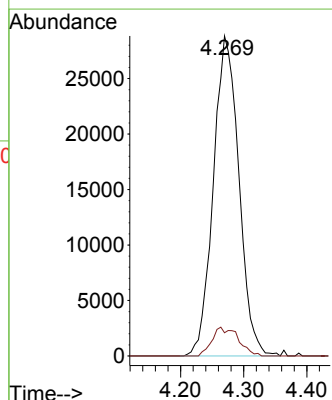
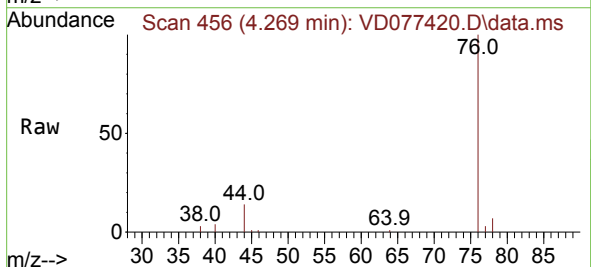
Instrument :
MSVOA_D
ClientSampleId :

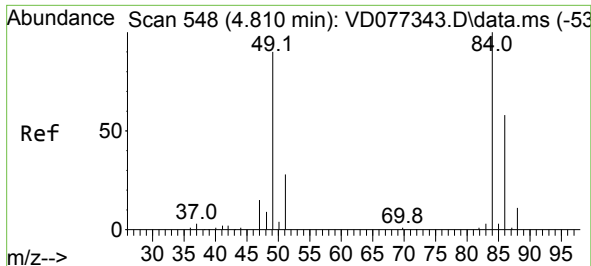
Tgt Ion: 43 Resp: 14141
Ion Ratio Lower Upper
43 100
58 37.3 34.7 52.1



#17
Carbon Disulfide
Concen: 21.607 ug/l
RT: 4.269 min Scan# 456
Delta R.T. 0.000 min
Lab File: VD077420.D
Acq: 25 Oct 2023 17:56

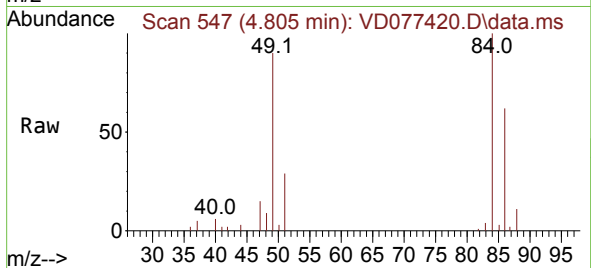
Tgt Ion: 76 Resp: 80996
Ion Ratio Lower Upper
76 100
78 7.2 6.8 10.2



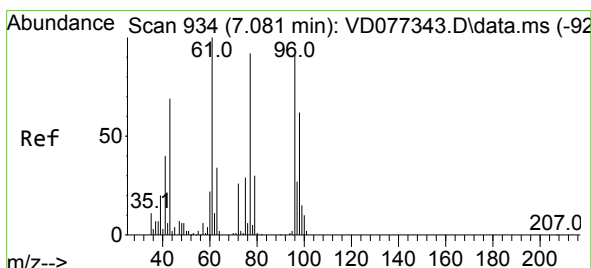
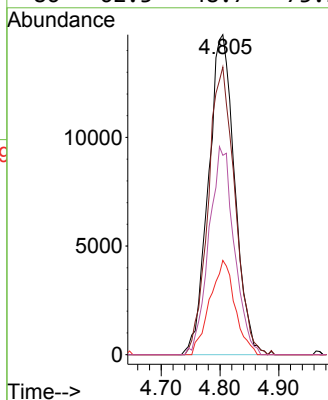
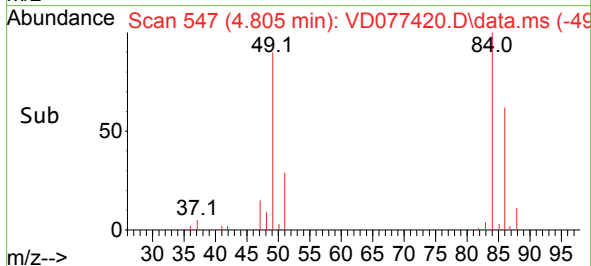


#20
Methylene Chloride
Concen: 33.318 ug/l
RT: 4.805 min Scan# 54
Delta R.T. -0.005 min
Lab File: VD077420.D
Acq: 25 Oct 2023 17:56

Instrument :
MSVOA_D
ClientSampleId :

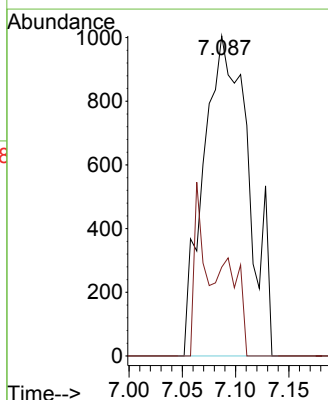
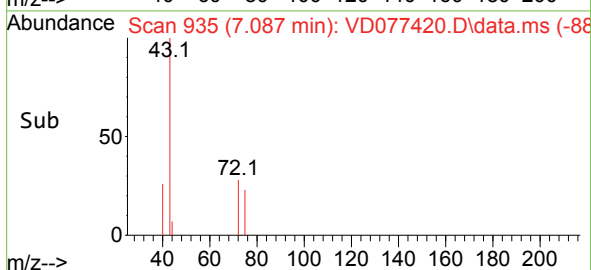
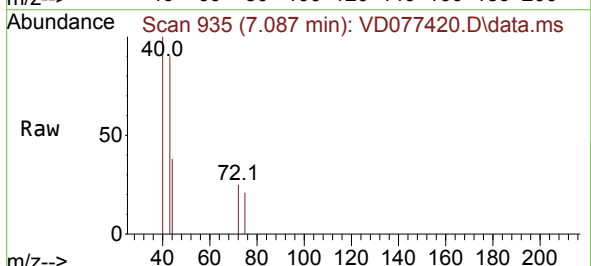


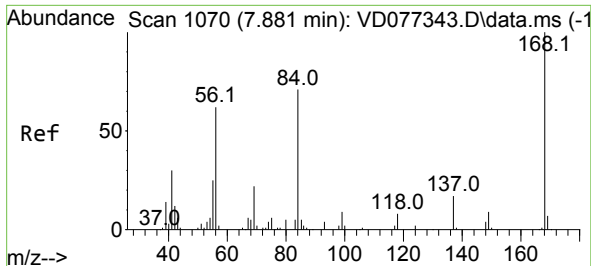
Tgt Ion: 84 Resp: 45820
Ion Ratio Lower Upper
84 100
49 89.9 71.4 107.2
51 29.5 24.5 36.7
86 62.3 48.7 73.1



#25
2-Butanone
Concen: 13.047 ug/l
RT: 7.087 min Scan# 935
Delta R.T. 0.006 min
Lab File: VD077420.D
Acq: 25 Oct 2023 17:56

Tgt Ion: 43 Resp: 2935
Ion Ratio Lower Upper
43 100
72 27.8 30.7 46.1#





#31

Cyclohexane

Concen: 1.339 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.012 min

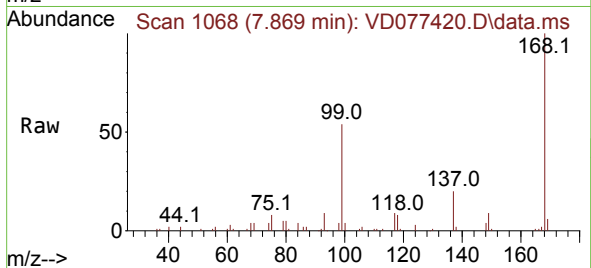
Lab File: VD077420.D

Acq: 25 Oct 2023 17:56

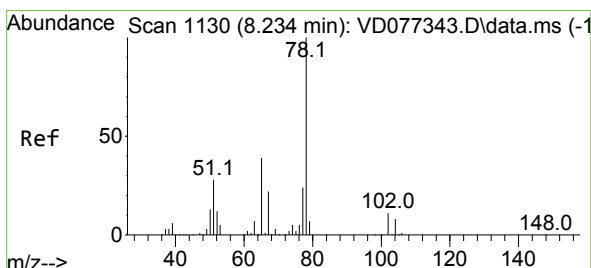
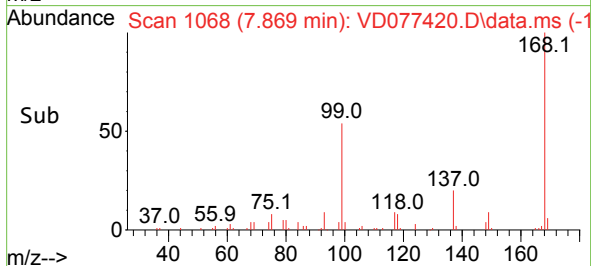
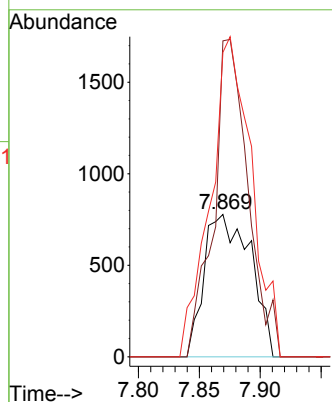
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	56	Resp:	2060
Ion	Ratio	Lower	Upper
56	100		
69	221.9	28.6	43.0#
84	213.8	84.8	127.2#



#33

1,2-Dichloroethane-d4

Concen: 52.606 ug/l

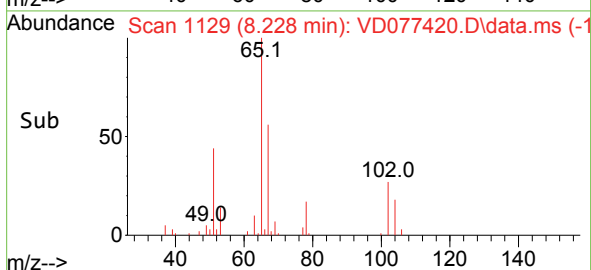
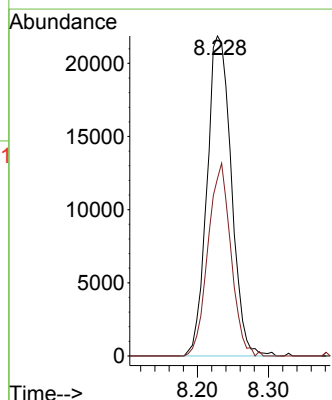
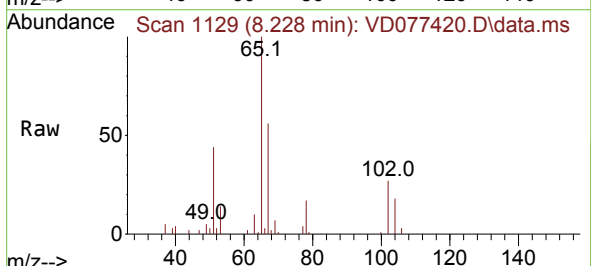
RT: 8.228 min Scan# 1129

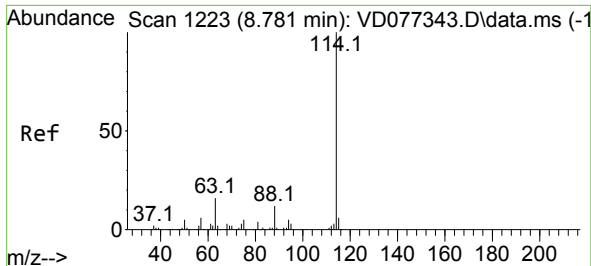
Delta R.T. -0.006 min

Lab File: VD077420.D

Acq: 25 Oct 2023 17:56

Tgt Ion:	65	Resp:	52024
Ion	Ratio	Lower	Upper
65	100		
67	56.6	0.0	115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 11

Delta R.T. -0.006 min

Lab File: VD077420.D

Acq: 25 Oct 2023 17:56

Instrument :

MSVOA_D

ClientSampleId :

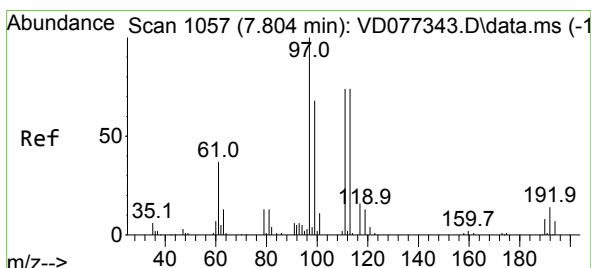
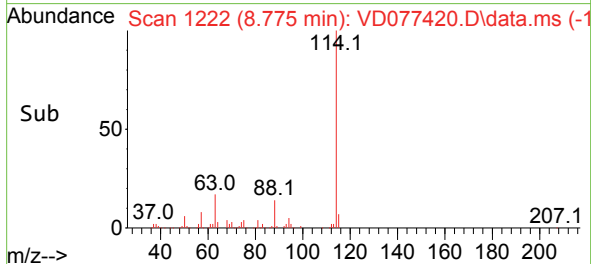
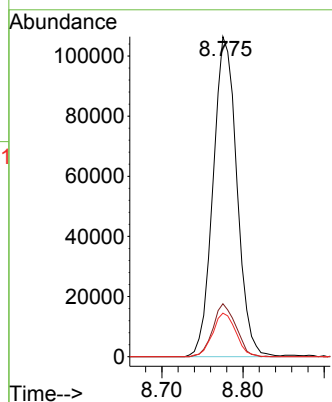
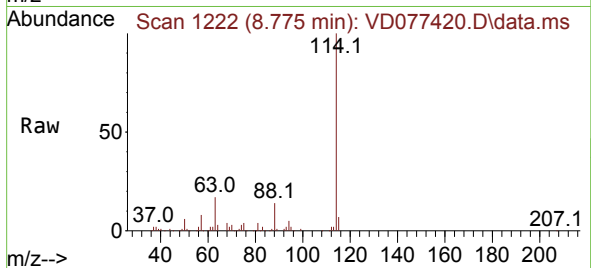
Tgt Ion:114 Resp: 216756

Ion Ratio Lower Upper

114 100

63 16.6 0.0 33.4

88 13.6 0.0 26.2



#35

Dibromofluoromethane

Concen: 42.541 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VD077420.D

Acq: 25 Oct 2023 17:56

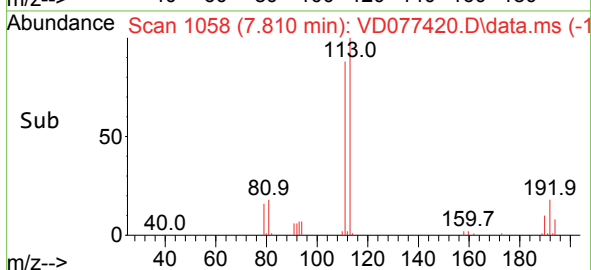
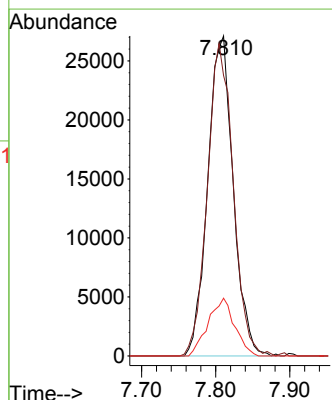
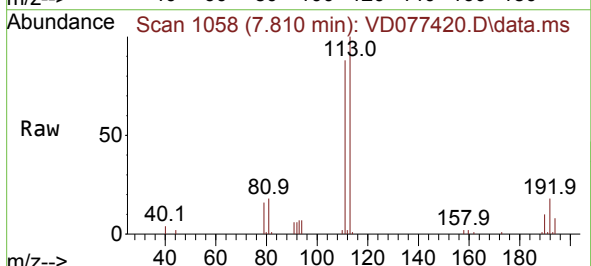
Tgt Ion:113 Resp: 64782

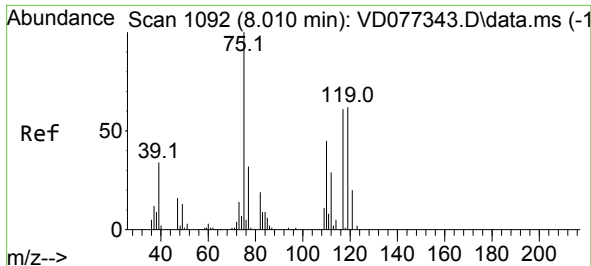
Ion Ratio Lower Upper

113 100

111 98.9 84.7 127.1

192 18.7 16.8 25.2





#36

1,1-Dichloropropene

Concen: 4.049 ug/l

RT: 7.875 min Scan# 1092

Delta R.T. -0.135 min

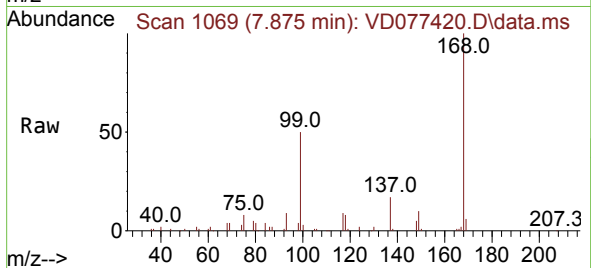
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Acq: 25 Oct 2023 17:56

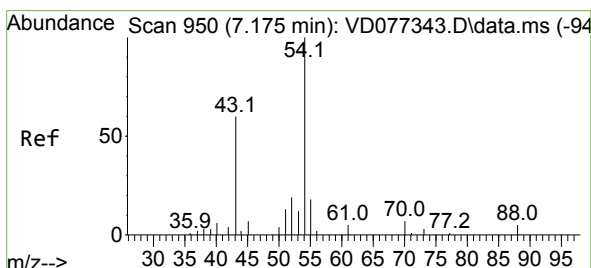
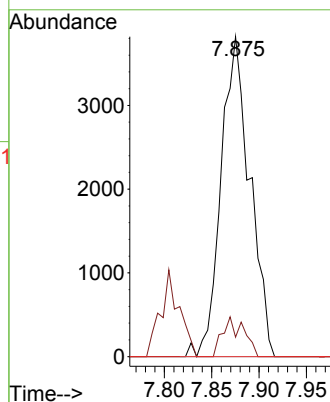
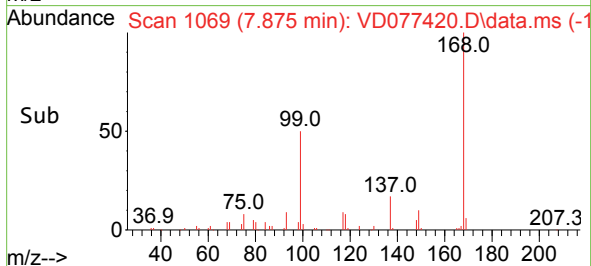
Instrument :

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Tgt Ion:	75	Resp:	8102
Ion	Ratio	Lower	Upper
75	100		
110	9.1	19.9	59.6#
77	0.0	24.7	37.1#



#37

Ethyl Acetate

Concen: 4.670 ug/l

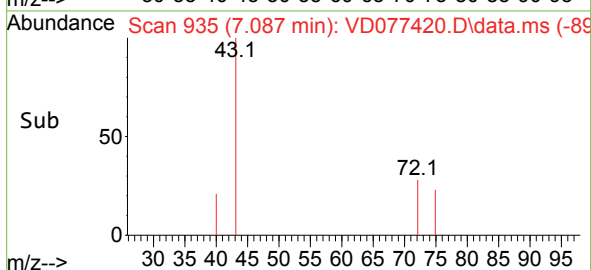
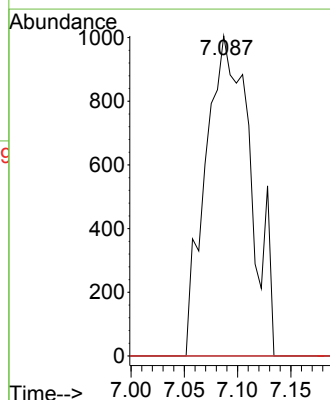
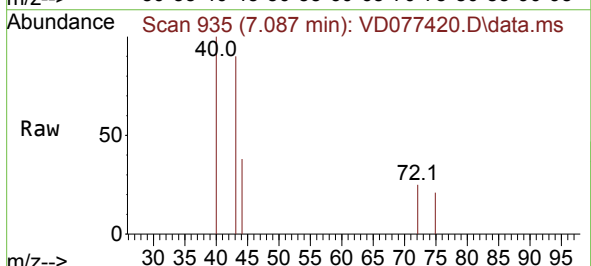
RT: 7.087 min Scan# 935

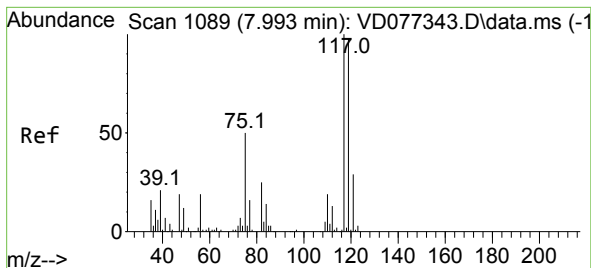
Delta R.T. -0.088 min

Lab File: VD077420.D

Acq: 25 Oct 2023 17:56

Tgt Ion:	43	Resp:	2935
Ion	Ratio	Lower	Upper
43	100		
61	0.0	14.9	22.3#
70	0.0	10.0	15.0#





#38

Carbon Tetrachloride

Concen: 4.410 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.118 min

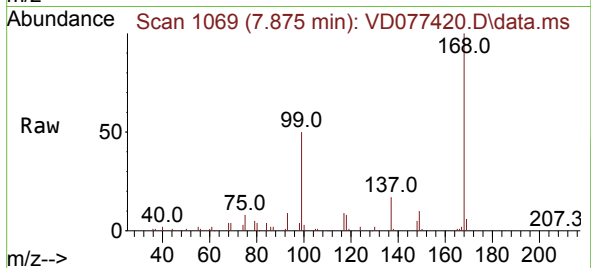
Lab File: VD077420.D

Acq: 25 Oct 2023 17:56

Instrument :

MSVOA_D

ClientSampleId :



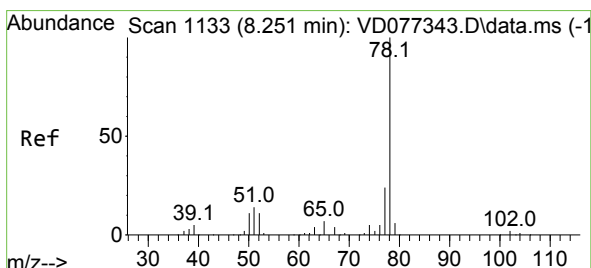
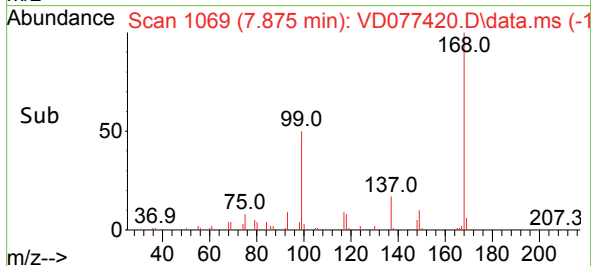
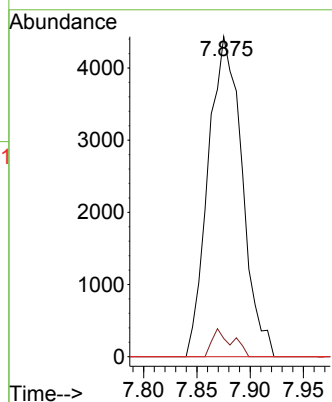
Tgt Ion:117 Resp: 9817

Ion Ratio Lower Upper

117 100

119 5.7 78.0 117.0#

121 0.0 24.2 36.2#



#40

Benzene

Concen: 5.093 ug/l

RT: 8.252 min Scan# 1133

Delta R.T. 0.001 min

Lab File: VD077420.D

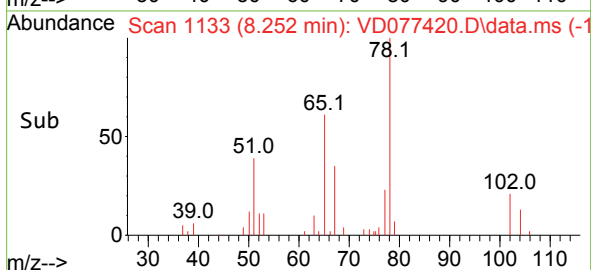
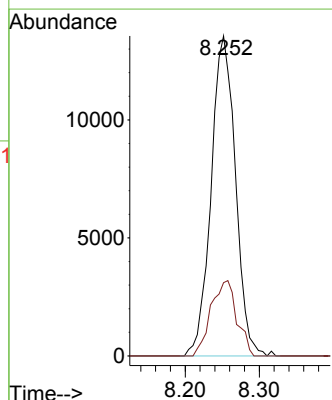
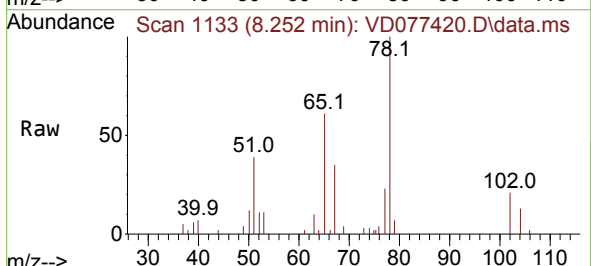
Acq: 25 Oct 2023 17:56

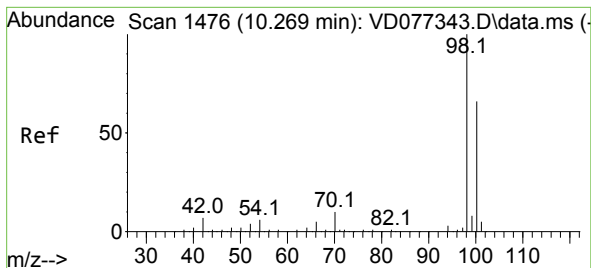
Tgt Ion: 78 Resp: 30928

Ion Ratio Lower Upper

78 100

77 22.9 19.4 29.0





#50

Toluene-d8

Concen: 32.323 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD077420.D

Acq: 25 Oct 2023 17:56

Instrument :

MSVOA_D

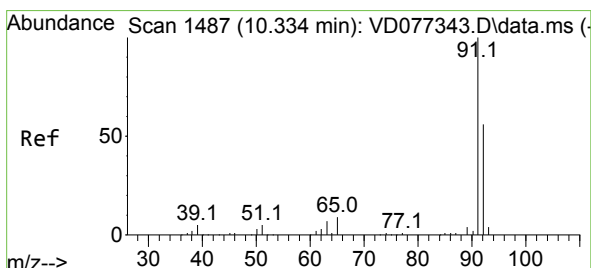
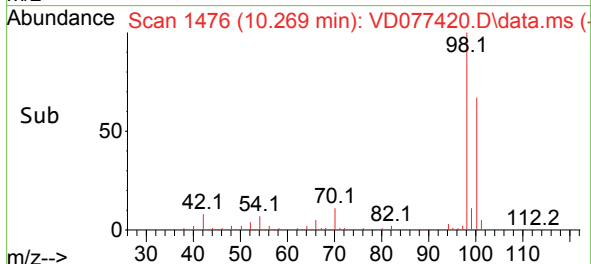
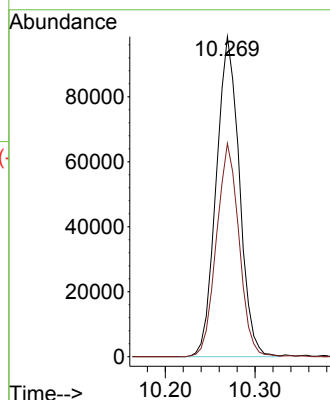
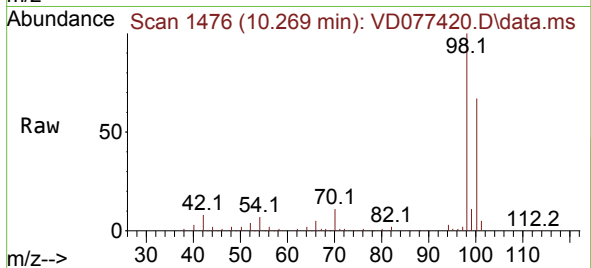
ClientSampleId :

Tgt Ion: 98 Resp: 176280

Ion Ratio Lower Upper

98 100

100 65.1 50.3 75.5



#52

Toluene

Concen: 2.185 ug/l

RT: 10.334 min Scan# 1487

Delta R.T. -0.000 min

Lab File: VD077420.D

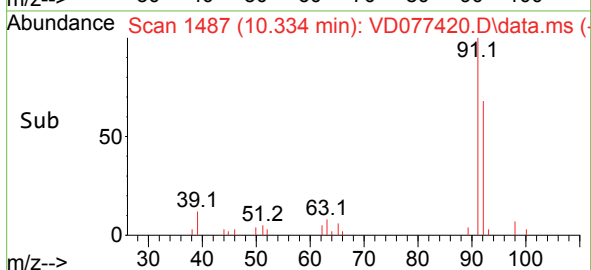
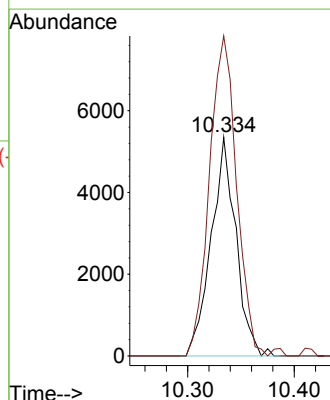
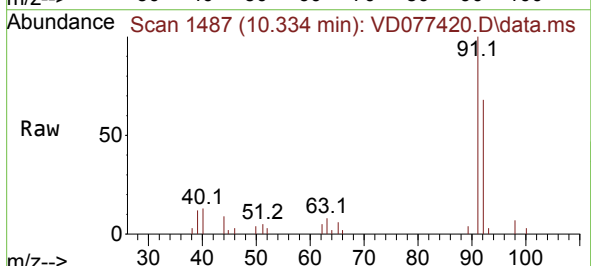
Acq: 25 Oct 2023 17:56

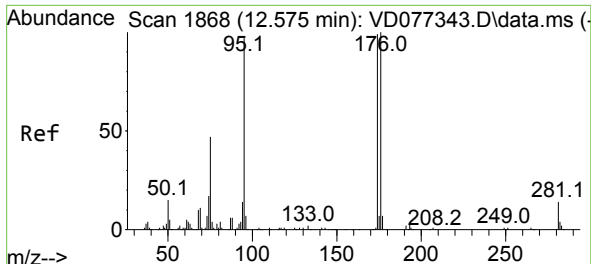
Tgt Ion: 92 Resp: 8662

Ion Ratio Lower Upper

92 100

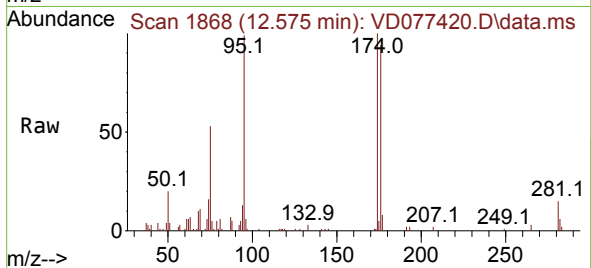
91 159.8 143.0 214.4



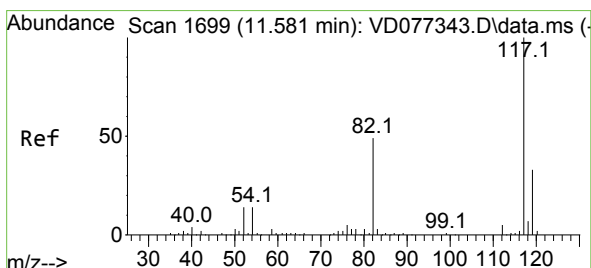
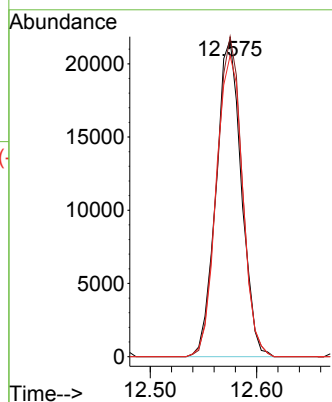
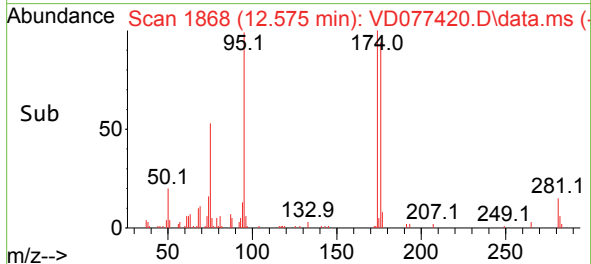


#62
4-Bromofluorobenzene
Concen: 22.776 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD077420.D
Acq: 25 Oct 2023 17:56

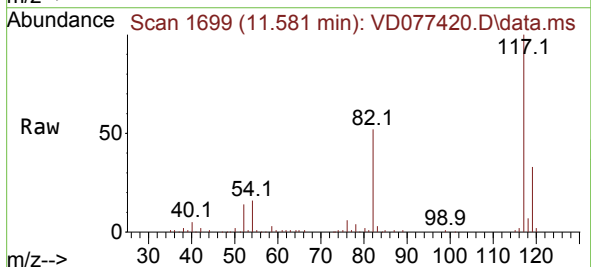
Instrument :
MSVOA_D
ClientSampleId :



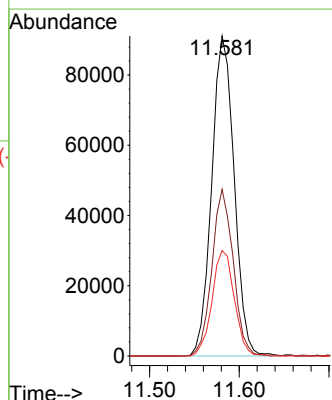
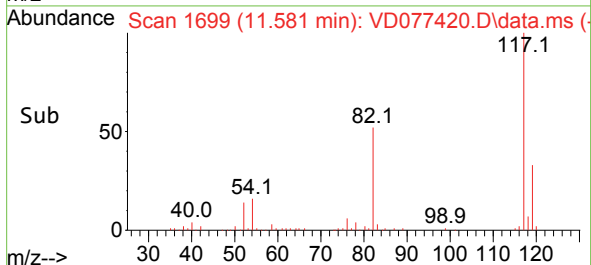
Tgt Ion: 95 Resp: 35756
Ion Ratio Lower Upper
95 100
174 100.8 0.0 201.8
176 98.4 0.0 191.8

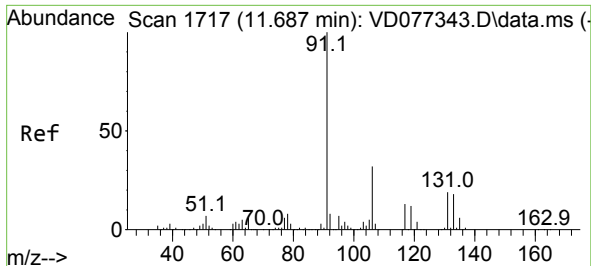


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. -0.000 min
Lab File: VD077420.D
Acq: 25 Oct 2023 17:56



Tgt Ion: 117 Resp: 158367
Ion Ratio Lower Upper
117 100
82 52.1 38.3 57.5
119 33.0 25.0 37.4





#67

Ethyl Benzene

Concen: 20.009 ug/l

RT: 11.681 min Scan# 1716

Delta R.T. -0.006 min

Lab File: VD077420.D

Acq: 25 Oct 2023 17:56

Instrument :

MSVOA_D

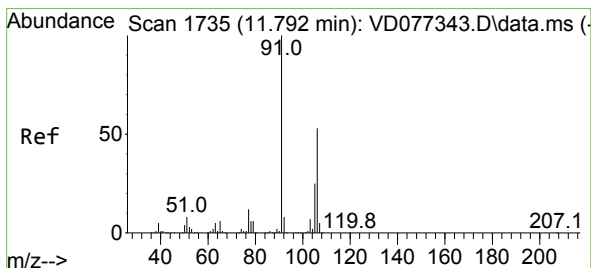
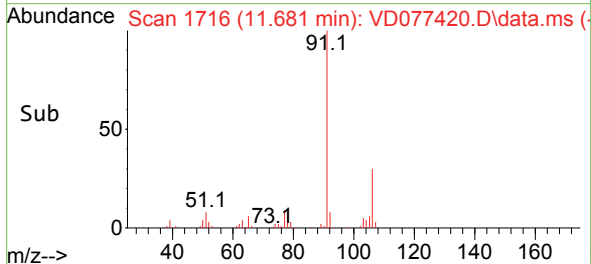
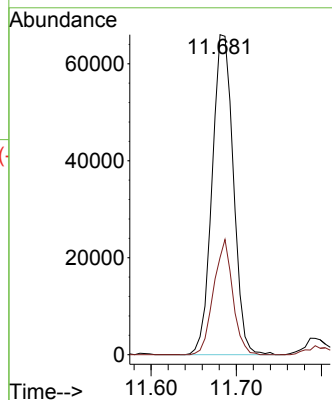
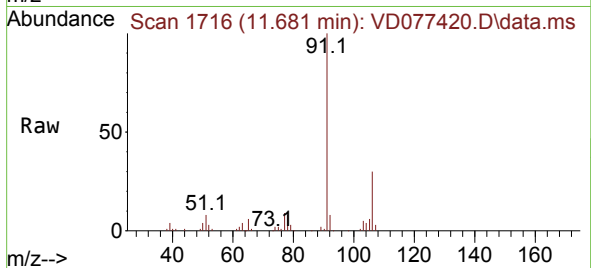
ClientSampleId :

Tgt Ion: 91 Resp: 114496

Ion Ratio Lower Upper

91 100

106 30.4 26.5 39.7



#68

m/p-Xylenes

Concen: 1.330 ug/l

RT: 11.793 min Scan# 1735

Delta R.T. 0.001 min

Lab File: VD077420.D

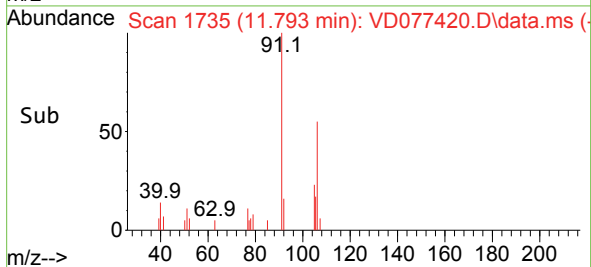
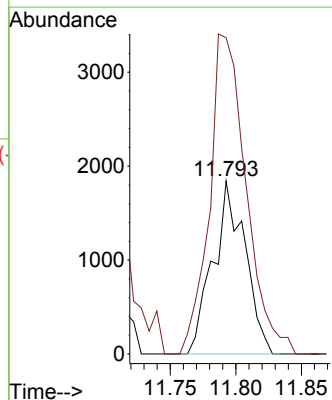
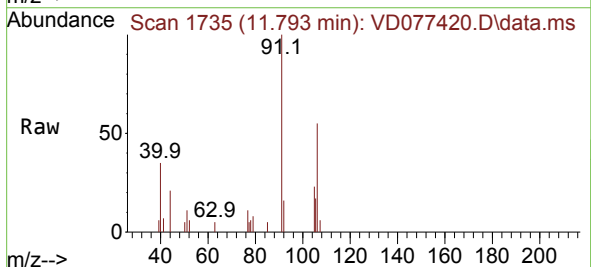
Acq: 25 Oct 2023 17:56

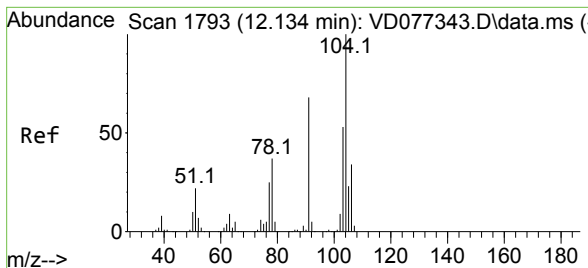
Tgt Ion: 106 Resp: 3125

Ion Ratio Lower Upper

106 100

91 212.3 147.0 220.6





#70

Styrene

Concen: 2.304 ug/l

RT: 12.134 min Scan# 11

Delta R.T. 0.000 min

Lab File: VD077420.D

Acq: 25 Oct 2023 17:56

Instrument :

MSVOA_D

ClientSampleId :

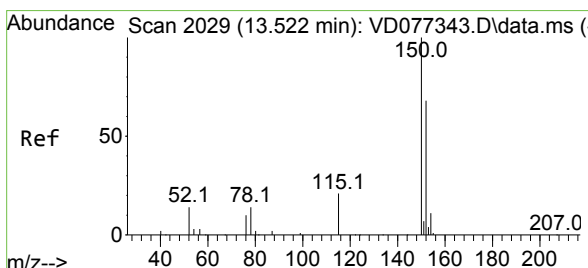
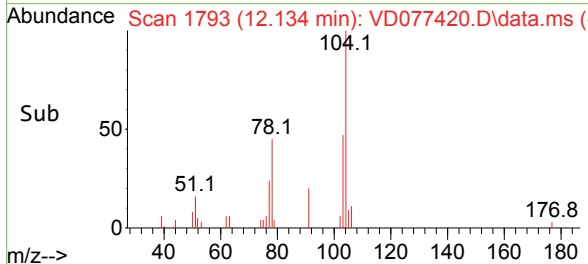
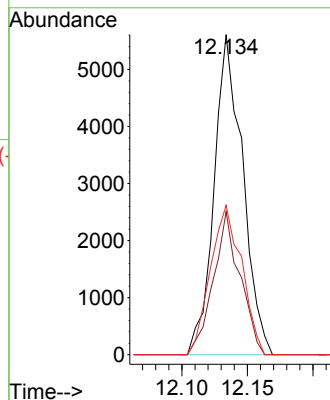
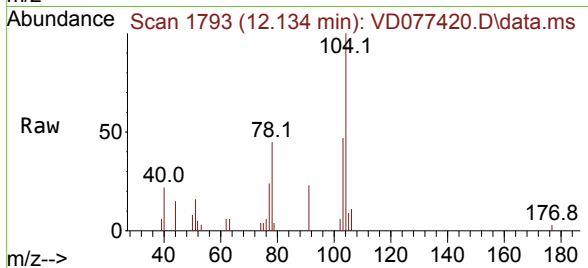
Tgt Ion:104 Resp: 8502

Ion Ratio Lower Upper

104 100

78 41.7 33.2 49.8

103 50.8 43.6 65.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2028

Delta R.T. -0.006 min

Lab File: VD077420.D

Acq: 25 Oct 2023 17:56

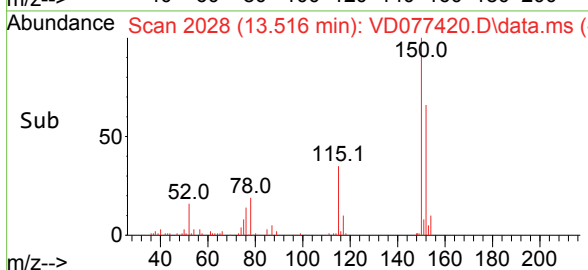
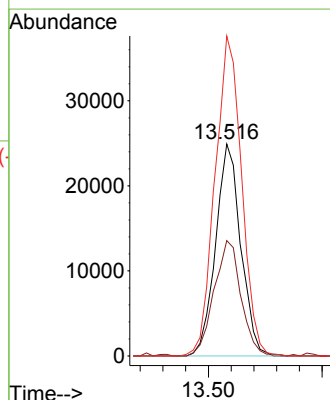
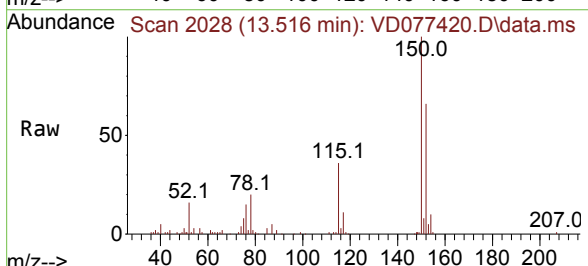
Tgt Ion:152 Resp: 38290

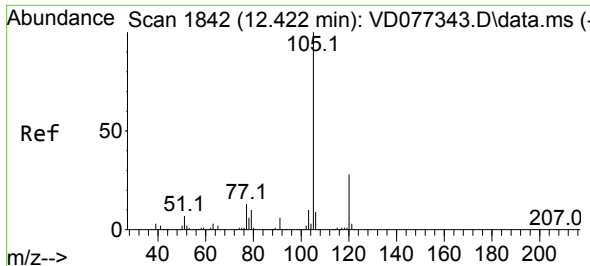
Ion Ratio Lower Upper

152 100

115 58.5 27.1 81.3

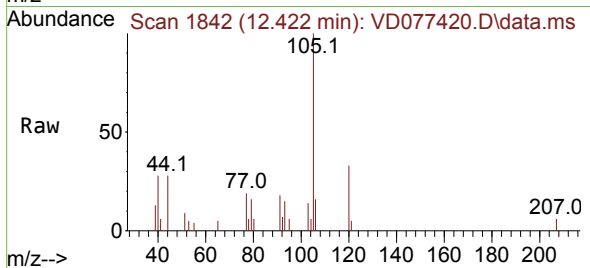
150 159.7 0.0 353.6



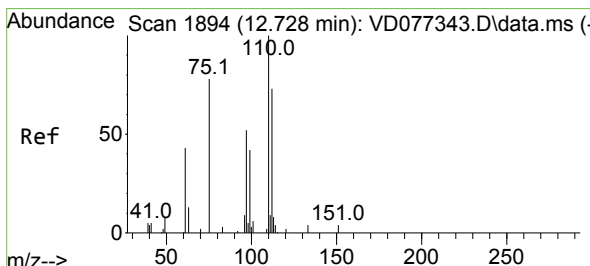
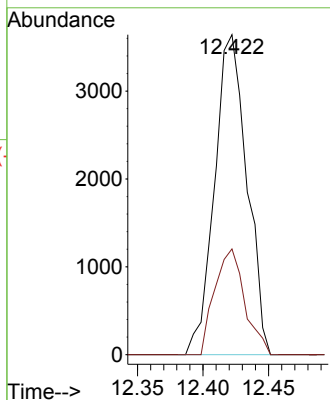
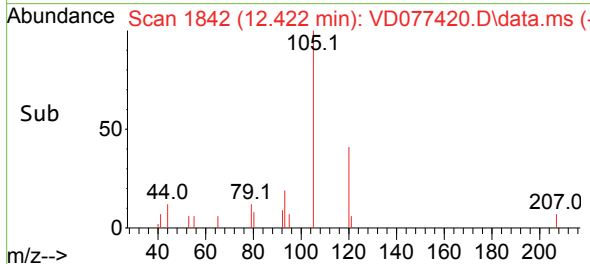


#73
Isopropylbenzene
Concen: 2.465 ug/l
RT: 12.422 min Scan# 1842
Delta R.T. 0.000 min
Lab File: VD077420.D
Acq: 25 Oct 2023 17:56

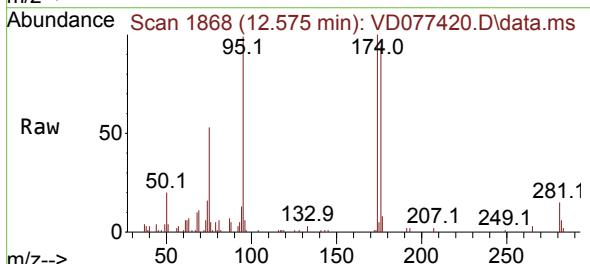
Instrument :
MSVOA_D
ClientSampleId :



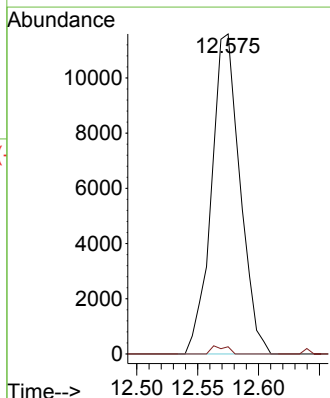
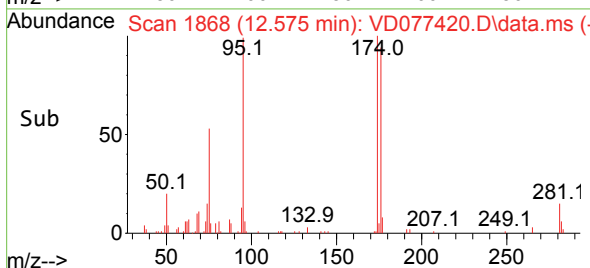
Tgt Ion:105 Resp: 6243
Ion Ratio Lower Upper
105 100
120 30.7 14.3 42.9

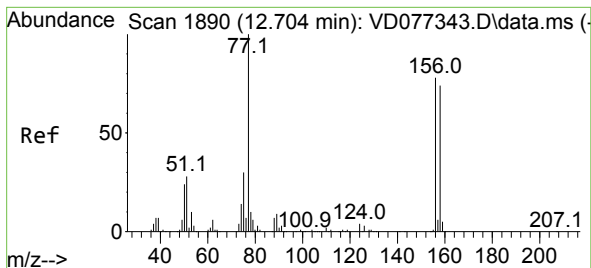


#76
1,2,3-Trichloropropane
Concen: 37.175 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.153 min
Lab File: VD077420.D
Acq: 25 Oct 2023 17:56



Tgt Ion: 75 Resp: 18938
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#





#77

Bromobenzene

Concen: 1.490 ug/l

RT: 12.716 min Scan# 1892

Delta R.T. 0.012 min

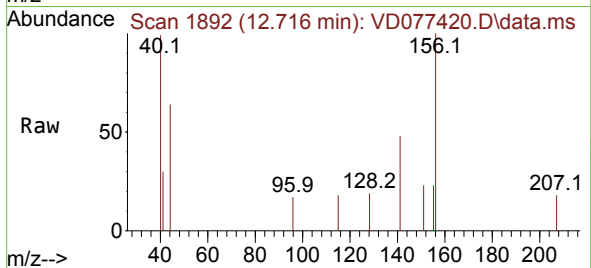
Lab File: VD077420.D

Acq: 25 Oct 2023 17:56

Instrument :

MSVOA_D

ClientSampleId :



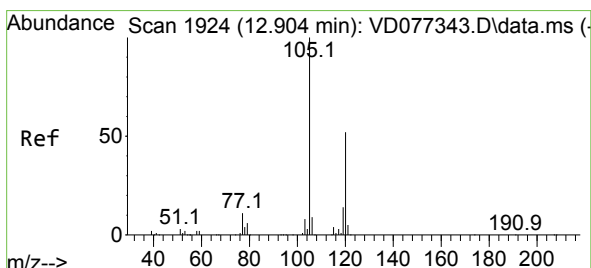
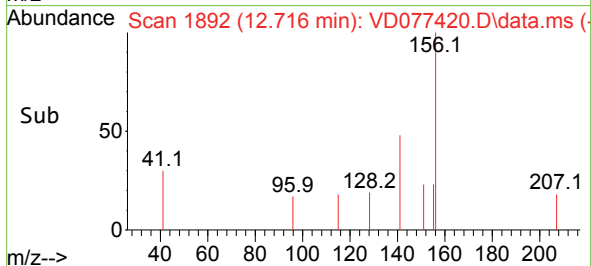
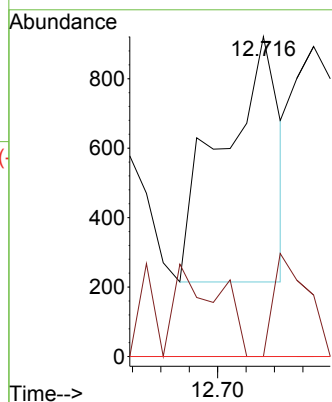
Tgt Ion:156 Resp: 991

Ion Ratio Lower Upper

156 100

77 24.7 76.8 230.4#

158 0.0 48.6 145.9#



#80

1,3,5-Trimethylbenzene

Concen: 1.854 ug/l

RT: 12.904 min Scan# 1924

Delta R.T. 0.000 min

Lab File: VD077420.D

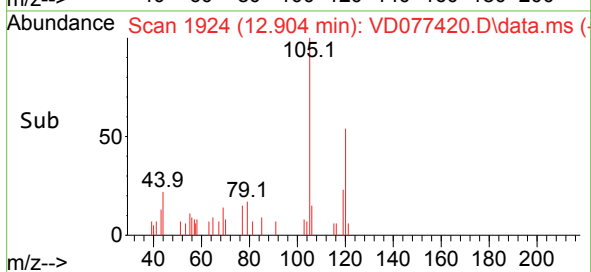
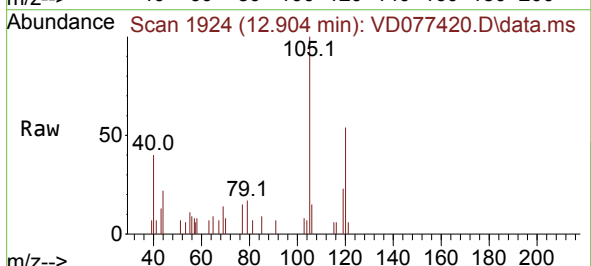
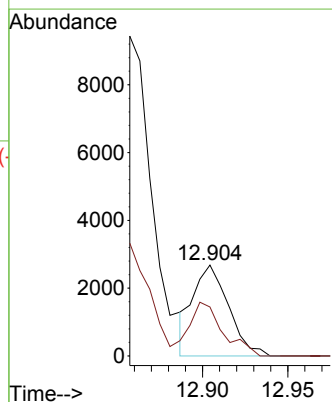
Acq: 25 Oct 2023 17:56

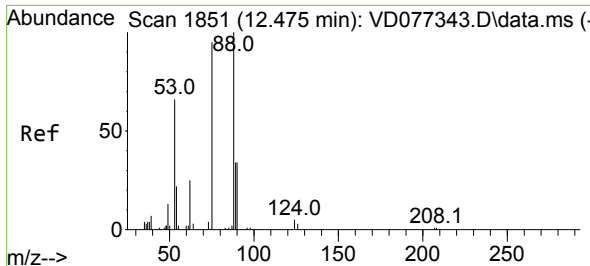
Tgt Ion:105 Resp: 3874

Ion Ratio Lower Upper

105 100

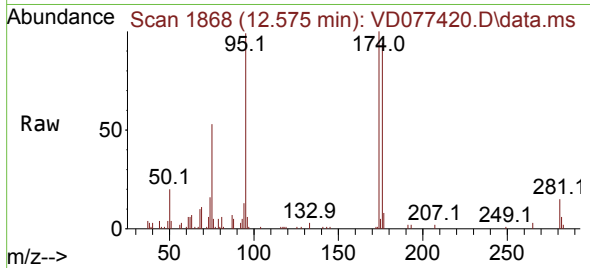
120 57.3 26.4 79.2



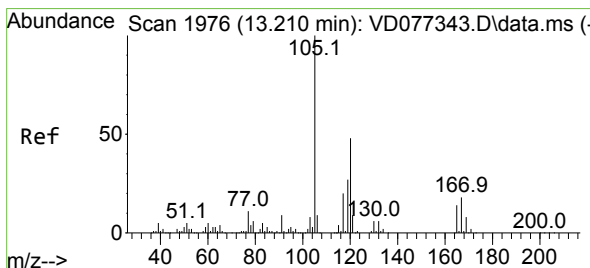
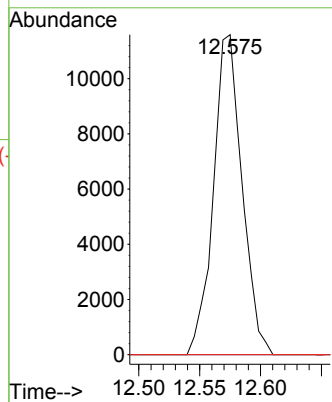
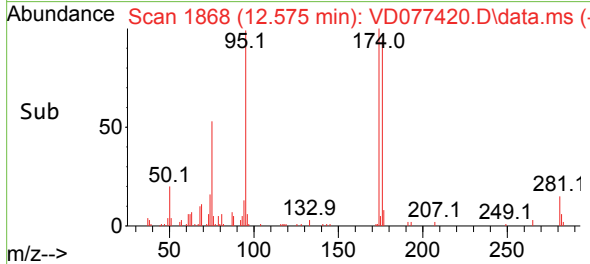


#81
trans-1,4-Dichloro-2-butene
Concen: 132.528 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.100 min
Lab File: VD077420.D
Acq: 25 Oct 2023 17:56

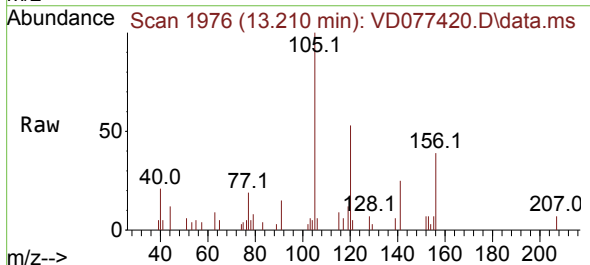
Instrument :
MSVOA_D
ClientSampleId :



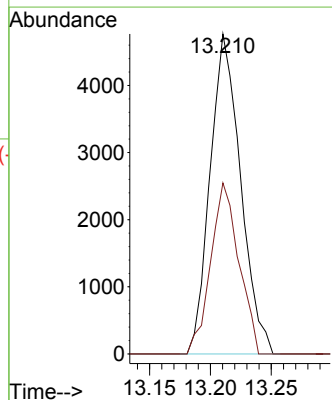
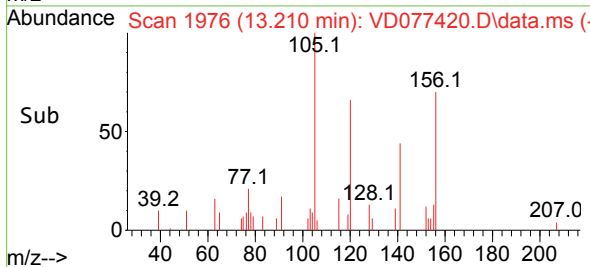
Tgt Ion: 75 Resp: 18938
Ion Ratio Lower Upper
75 100
53 0.0 63.0 94.4#
89 0.0 37.9 56.9#

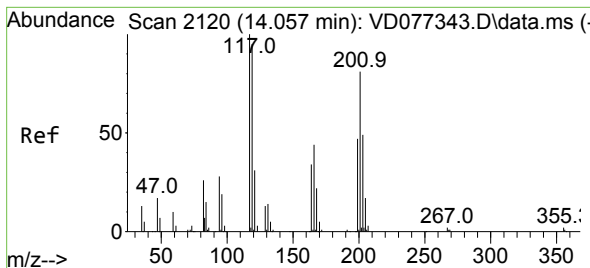


#84
1,2,4-Trimethylbenzene
Concen: 3.951 ug/l
RT: 13.210 min Scan# 1976
Delta R.T. 0.000 min
Lab File: VD077420.D
Acq: 25 Oct 2023 17:56



Tgt Ion: 105 Resp: 8314
Ion Ratio Lower Upper
105 100
120 49.4 24.3 72.9





#90

Hexachloroethane

Concen: 1.848 ug/l

RT: 14.057 min Scan# 2120

Delta R.T. 0.000 min

Lab File: VD077420.D

Acq: 25 Oct 2023 17:56

Instrument :

MSVOA_D

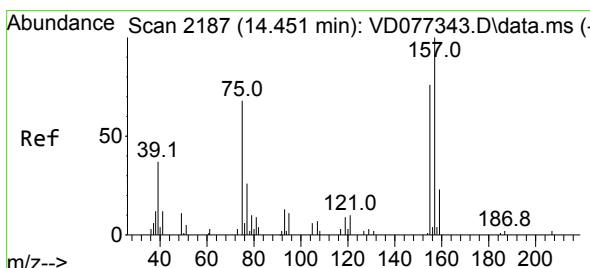
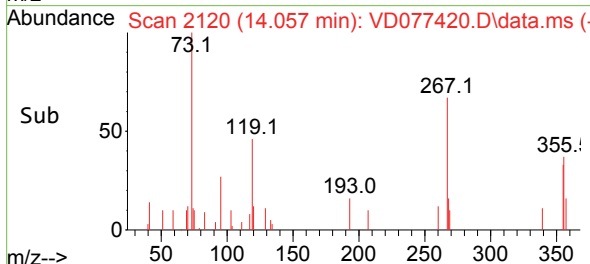
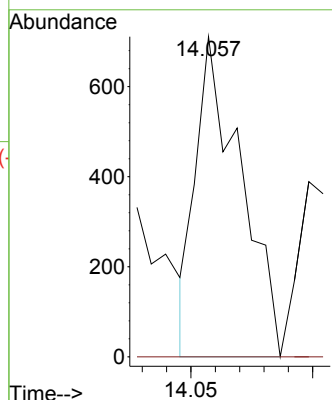
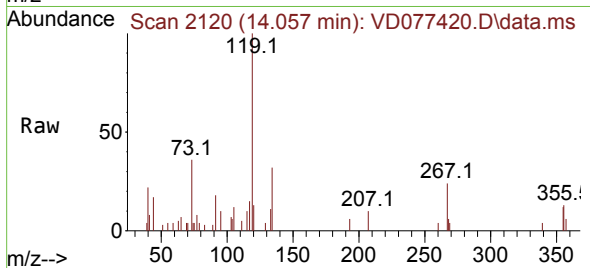
ClientSampleId :

Tgt Ion:117 Resp: 905

Ion Ratio Lower Upper

117 100

201 0.0 38.5 115.5#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.314 ug/l

RT: 14.445 min Scan# 2186

Delta R.T. -0.006 min

Lab File: VD077420.D

Acq: 25 Oct 2023 17:56

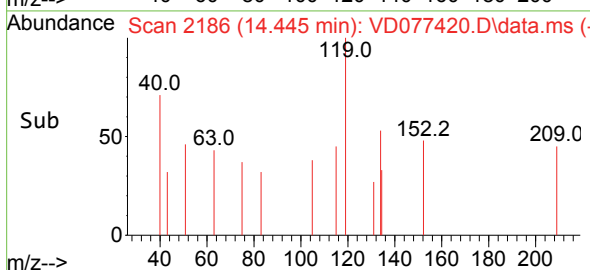
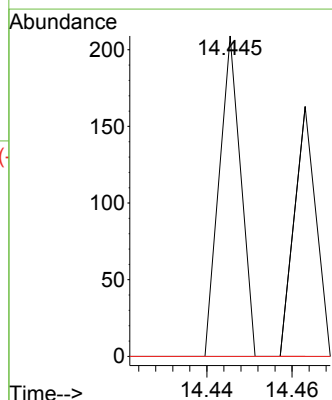
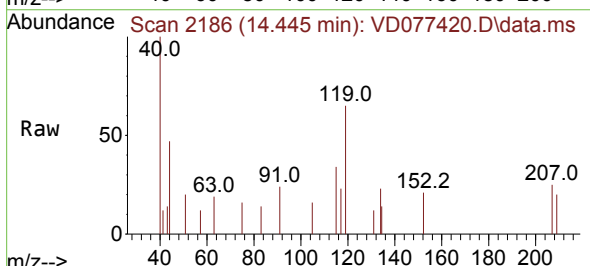
Tgt Ion: 75 Resp: 74

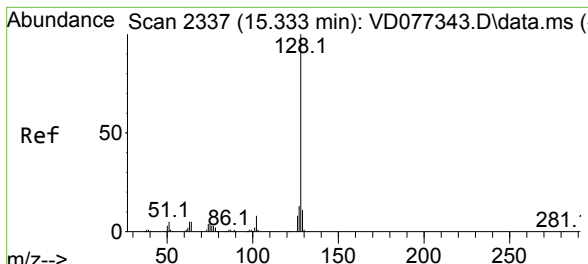
Ion Ratio Lower Upper

75 100

155 0.0 47.9 143.8#

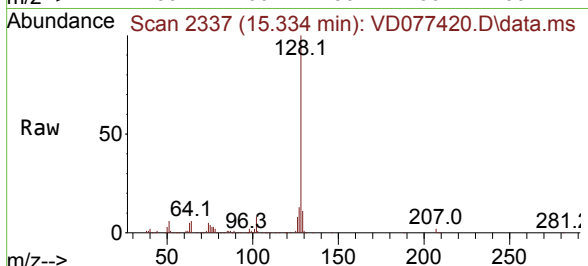
157 0.0 59.9 179.7#





#95
 Naphthalene
 Concen: 112.678 ug/l
 RT: 15.334 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VD077420.D
 Acq: 25 Oct 2023 17:56

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion:	128	Resp:	140112
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	11.5	8.7	13.1

