

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD010224\
 Data File : VD078124.D
 Acq On : 02 Jan 2024 16:51
 Operator : RP/MD
 Sample : 06017-06RE
 Misc : 5.04G/5.0ml/MSVOA_D/SOIL/B
 ALS Vial : 14 Sample Multiplier: 1

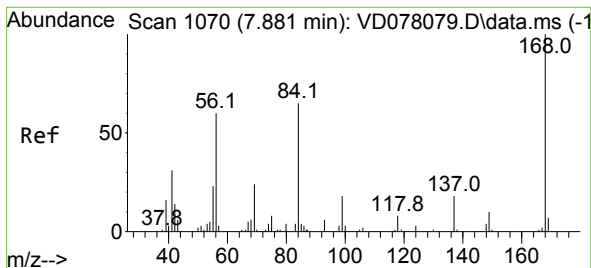
Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 03 00:07:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D122623S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 27 03:40:16 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.881	168	219874	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	369411	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.587	117	388269	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.522	152	204903	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	76745	39.228	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	78.460%
35) Dibromofluoromethane	7.810	113	103821	43.679	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	87.360%
50) Toluene-d8	10.269	98	486775	58.202	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	116.400%
62) 4-Bromofluorobenzene	12.575	95	164289	61.050	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	122.100%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.069	59	60	Below Cal	#	73
16) Acetone	4.022	43	1573	Below Cal	#	62
20) Methylene Chloride	4.810	84	21491	6.175	ug/l #	86
25) 2-Butanone	7.075	43	639	Below Cal	#	37
31) Cyclohexane	7.863	56	26205	8.396	ug/l #	55
36) 1,1-Dichloropropene	7.881	75	15282	4.569	ug/l #	47
38) Carbon Tetrachloride	7.875	117	21016	5.799	ug/l #	18
39) Methylcyclohexane	9.281	83	32233	8.407	ug/l #	38
43) Isopropyl Acetate	8.416	43	160804	72.210	ug/l #	43
47) Bromodichloromethane	9.575	83	12082	3.400	ug/l #	25
48) Methyl methacrylate	9.416	41	9487	7.559	ug/l #	21
51) 4-Methyl-2-Pentanone	10.204	43	38367	33.577	ug/l #	78
55) 1,1,2-Trichloroethane	10.710	97	42503	22.078	ug/l #	30
56) Ethyl methacrylate	10.616	69	1654	1.083	ug/l #	1
59) 2-Hexanone	10.893	43	71624	80.696	ug/l #	22
71) Bromoform	12.563	173	1853	1.076	ug/l #	28
73) Isopropylbenzene	12.422	105	15282	1.083	ug/l	95
74) N-amyl acetate	12.216	43	53918	23.014	ug/l #	64
75) 1,1,2,2-Tetrachloroethane	12.663	83	4450	1.735	ug/l #	1
76) 1,2,3-Trichloropropane	12.575	75	77922	45.076	ug/l #	100
78) n-propylbenzene	12.763	91	32684	1.924	ug/l	96
79) 2-Chlorotoluene	12.763	91	32684	3.557	ug/l #	38
81) trans-1,4-Dichloro-2-b...	12.575	75	77922	97.128	ug/l #	17
82) 4-Chlorotoluene	12.763	91	32684	3.318	ug/l #	38
85) sec-Butylbenzene	13.351	105	26220	1.756	ug/l #	51
89) n-Butylbenzene	13.786	91	33838	2.759	ug/l #	78
90) Hexachloroethane	14.063	117	24072	9.013	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.457	75	648	1.804	ug/l #	15

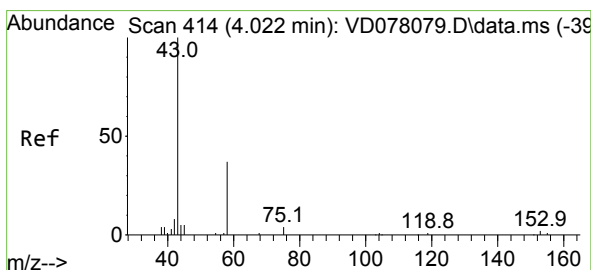
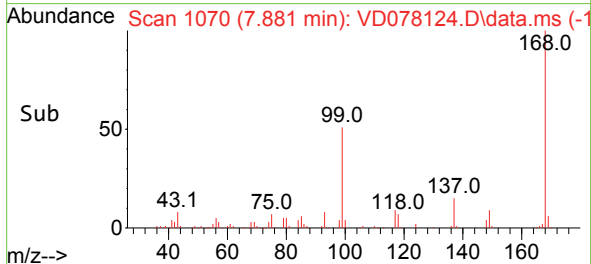
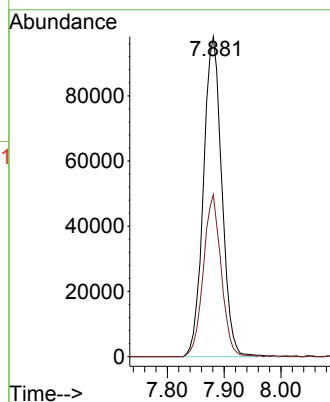
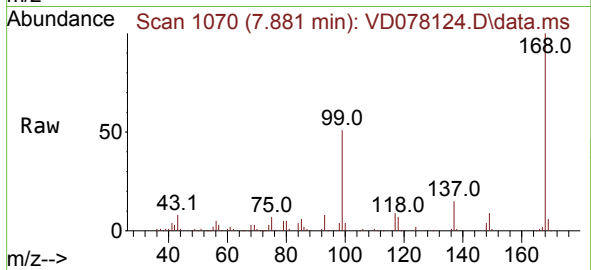
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.881 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

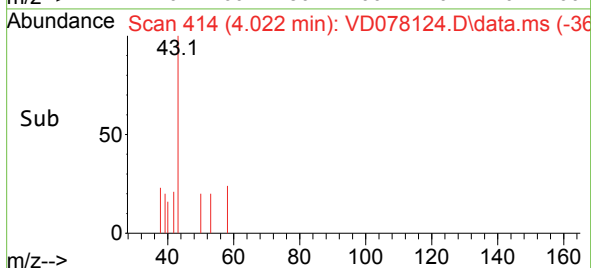
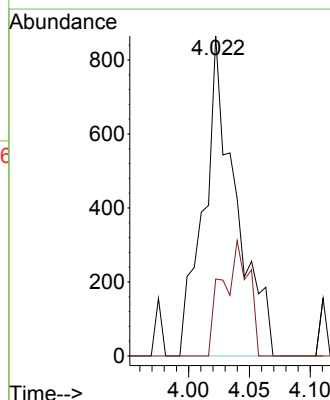
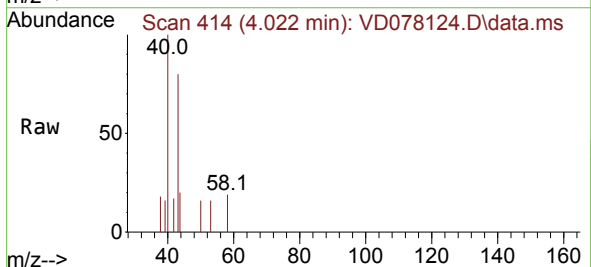
Instrument :
MSVOA_D
ClientSampleId :

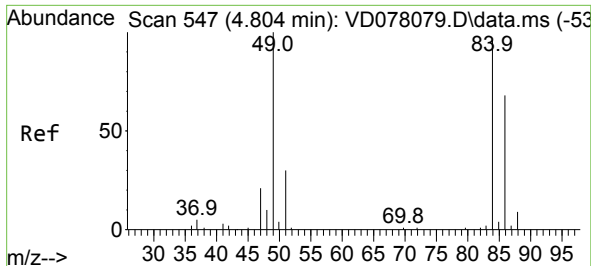
Tgt Ion:168 Resp: 219874
Ion Ratio Lower Upper
168 100
99 50.7 36.7 55.1



#16
Acetone
Concen: Below Cal
RT: 4.022 min Scan# 414
Delta R.T. 0.000 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

Tgt Ion: 43 Resp: 1573
Ion Ratio Lower Upper
43 100
58 19.2 34.7 52.1#

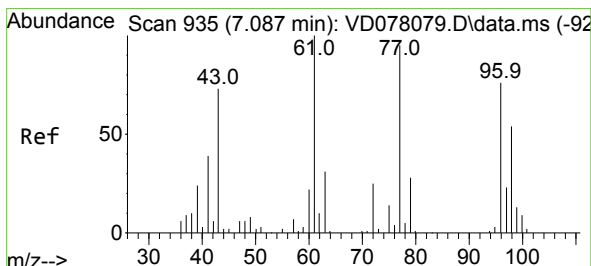
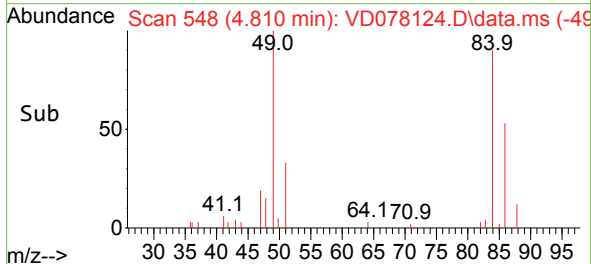
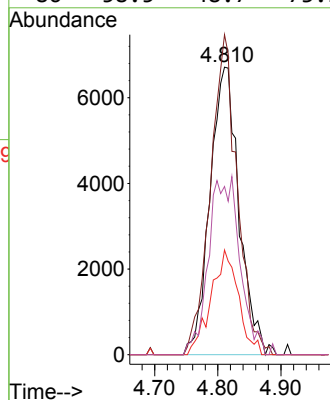
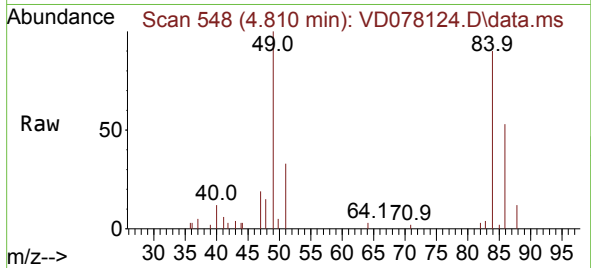




#20
Methylene Chloride
Concen: 6.175 ug/l
RT: 4.810 min Scan# 54
Delta R.T. 0.006 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

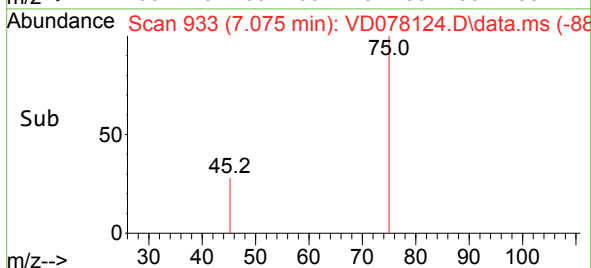
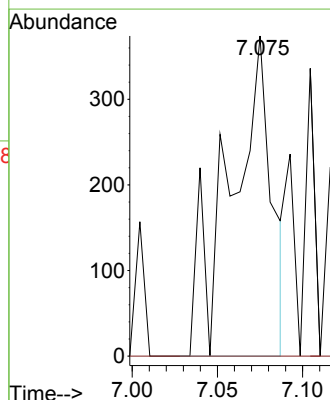
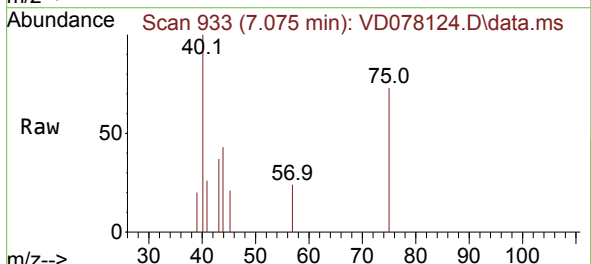
Instrument :
MSVOA_D
ClientSampleId :

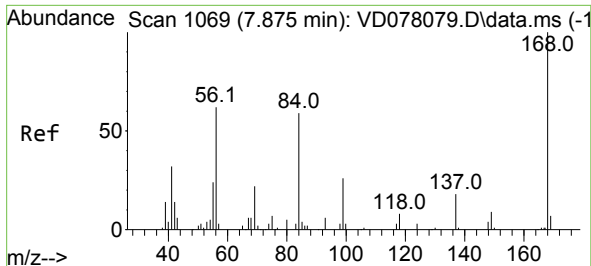
Tgt Ion: 84 Resp: 21491
Ion Ratio Lower Upper
84 100
49 111.3 71.4 107.2#
51 36.4 24.5 36.7
86 58.5 48.7 73.1



#25
2-Butanone
Concen: Below Cal
RT: 7.075 min Scan# 933
Delta R.T. -0.012 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

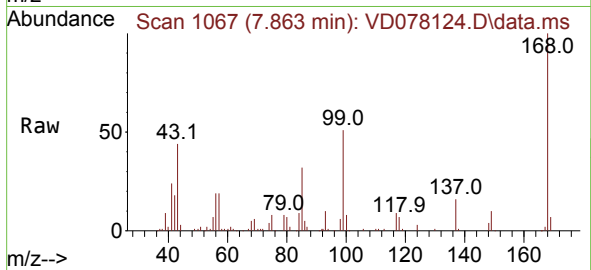
Tgt Ion: 43 Resp: 639
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#



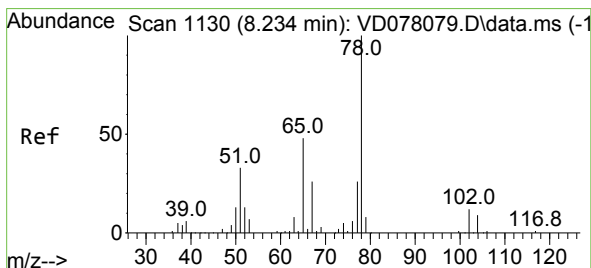
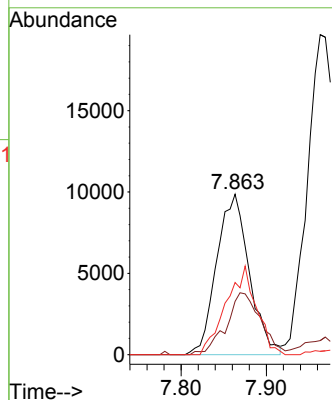
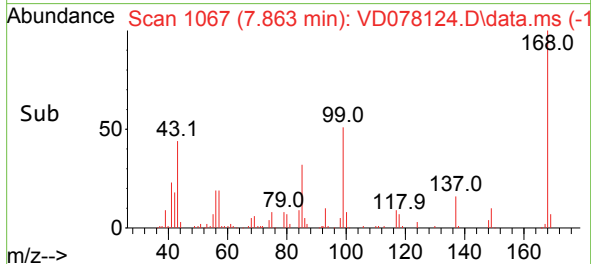


#31
Cyclohexane
Concen: 8.396 ug/l
RT: 7.863 min Scan# 1067
Delta R.T. -0.012 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

Instrument :
MSVOA_D
ClientSampleId :

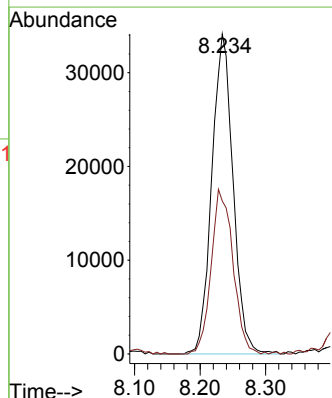
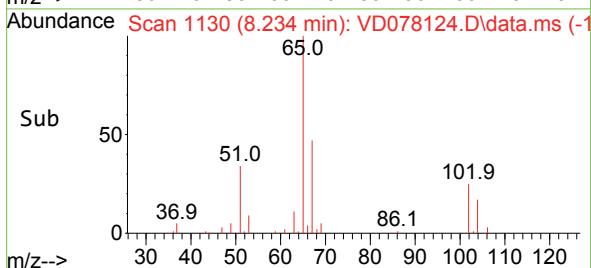
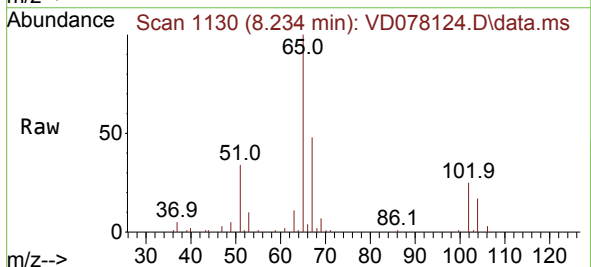


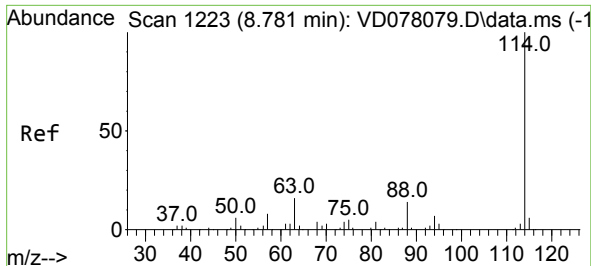
Tgt Ion: 56 Resp: 26205
Ion Ratio Lower Upper
56 100
69 33.2 28.6 43.0
84 45.0 84.8 127.2#



#33
1,2-Dichloroethane-d4
Concen: 39.228 ug/l
RT: 8.234 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

Tgt Ion: 65 Resp: 76745
Ion Ratio Lower Upper
65 100
67 52.8 0.0 115.0

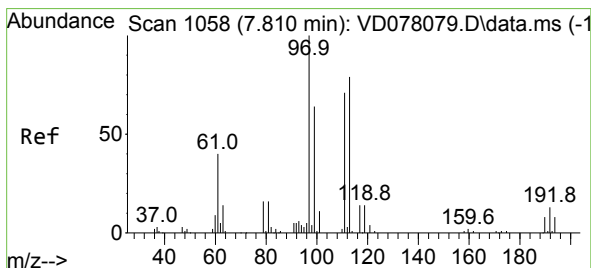
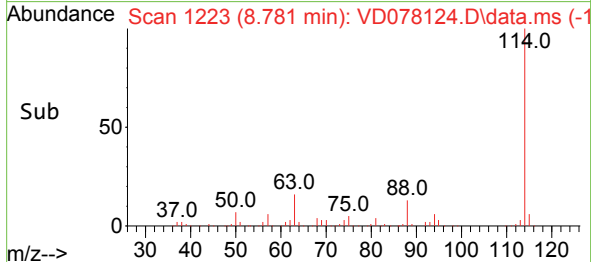
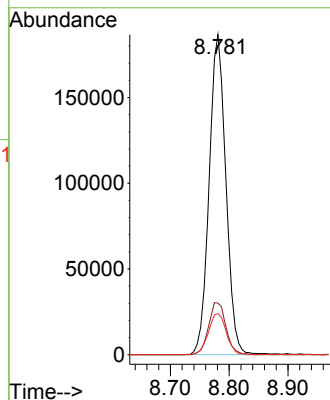
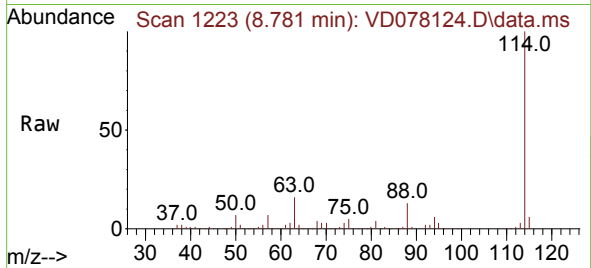




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.781 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

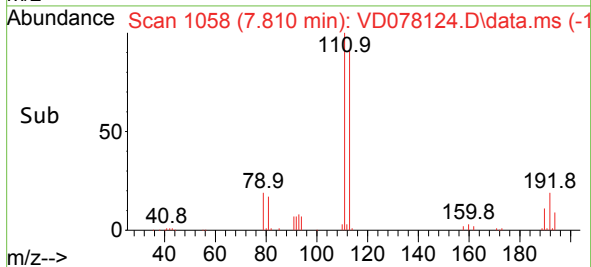
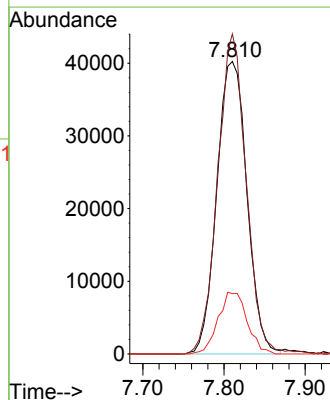
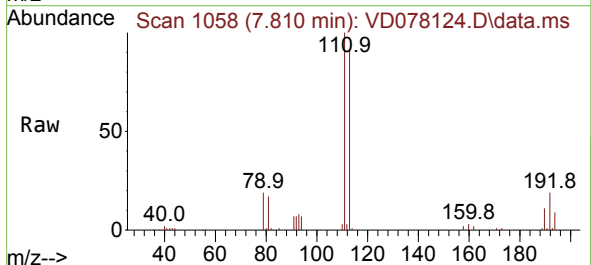
Instrument :
MSVOA_D
ClientSampleId :

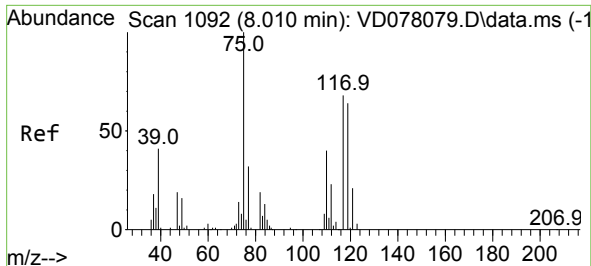
Tgt Ion:114 Resp: 369411
Ion Ratio Lower Upper
114 100
63 16.2 0.0 33.4
88 12.8 0.0 26.2



#35
Dibromofluoromethane
Concen: 43.679 ug/l
RT: 7.810 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

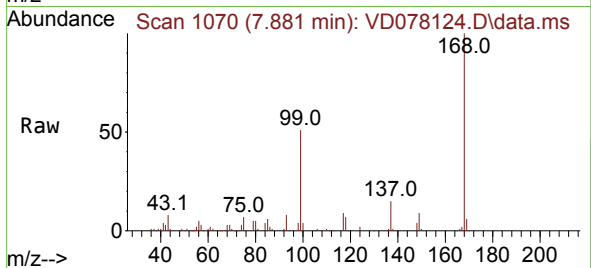
Tgt Ion:113 Resp: 103821
Ion Ratio Lower Upper
113 100
111 103.7 84.7 127.1
192 20.3 16.8 25.2



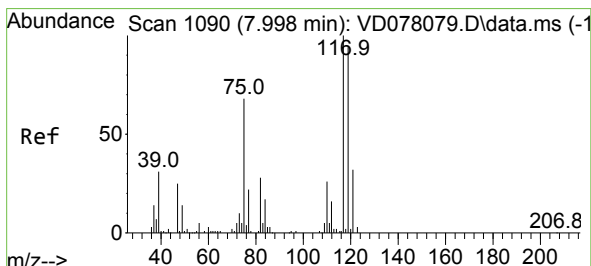
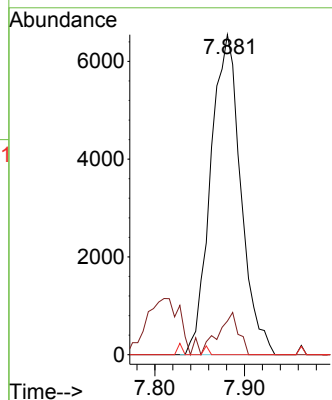
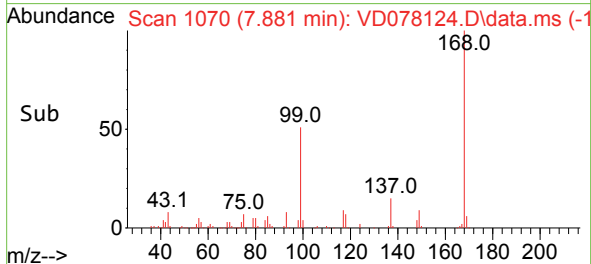


#36
1,1-Dichloropropene
Concen: 4.569 ug/l
RT: 7.881 min Scan# 1069
Delta R.T. -0.129 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

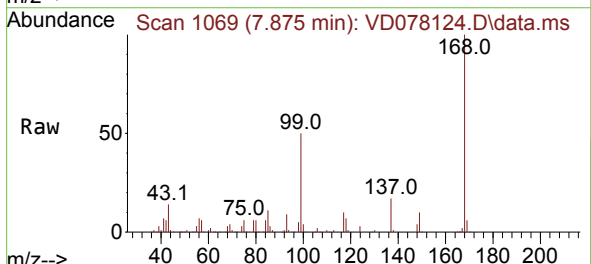
Instrument :
MSVOA_D
ClientSampleId :



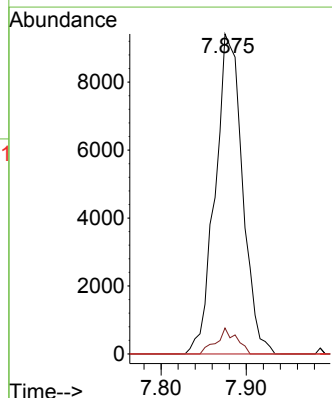
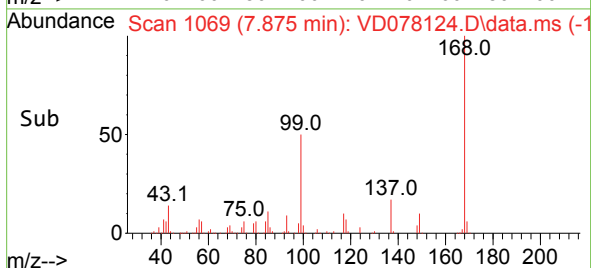
Tgt Ion: 75 Resp: 15282
Ion Ratio Lower Upper
75 100
110 8.9 19.9 59.6#
77 0.0 24.7 37.1#

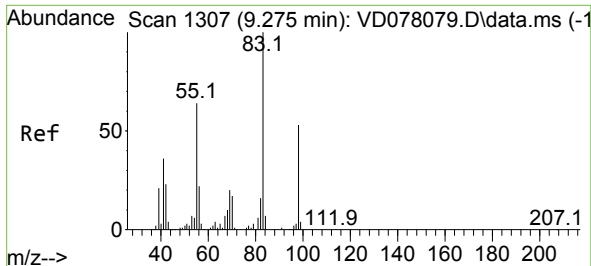


#38
Carbon Tetrachloride
Concen: 5.799 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.123 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51



Tgt Ion: 117 Resp: 21016
Ion Ratio Lower Upper
117 100
119 8.1 78.0 117.0#
121 0.0 24.2 36.2#





#39

Methylcyclohexane

Concen: 8.407 ug/l

RT: 9.281 min Scan# 11

Delta R.T. 0.006 min

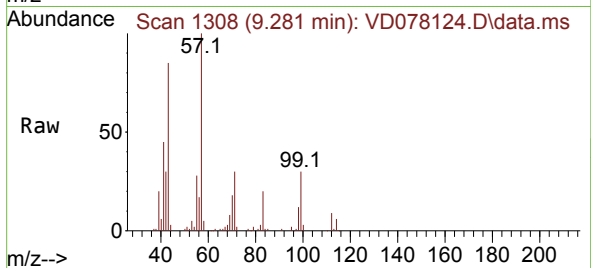
Lab File: VD078124.D

Acq: 02 Jan 2024 16:51

Instrument :

MSVOA_D

ClientSampleId :



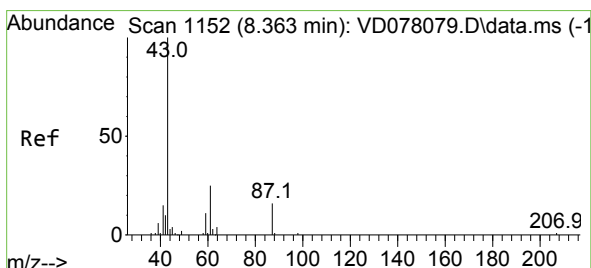
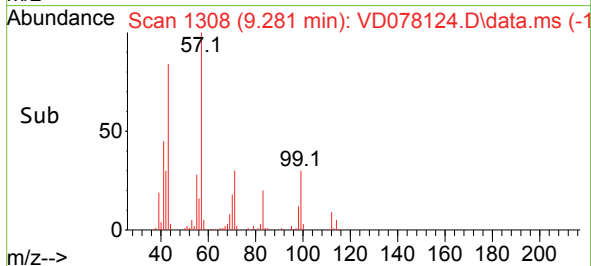
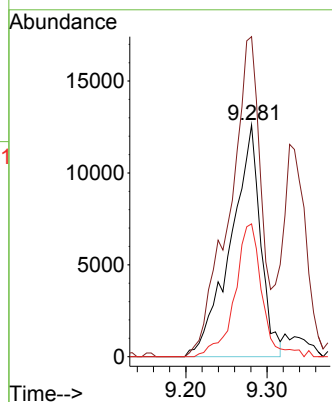
Tgt Ion: 83 Resp: 32233

Ion Ratio Lower Upper

83 100

55 138.2 49.4 74.0#

98 57.3 38.4 57.6



#43

Isopropyl Acetate

Concen: 72.210 ug/l

RT: 8.416 min Scan# 1161

Delta R.T. 0.053 min

Lab File: VD078124.D

Acq: 02 Jan 2024 16:51

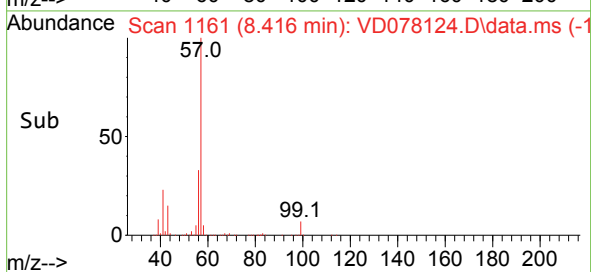
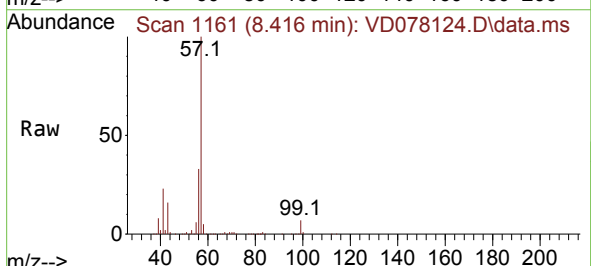
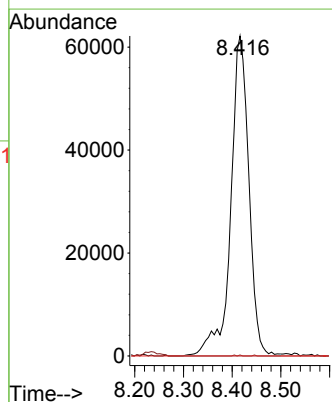
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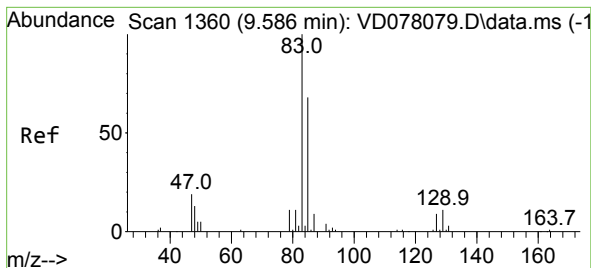
Ion Ratio Lower Upper

43 100

61 0.1 31.4 47.0#

87 0.0 14.9 22.3#





#47

Bromodichloromethane

Concen: 3.400 ug/l

RT: 9.575 min Scan# 1358

Delta R.T. -0.012 min

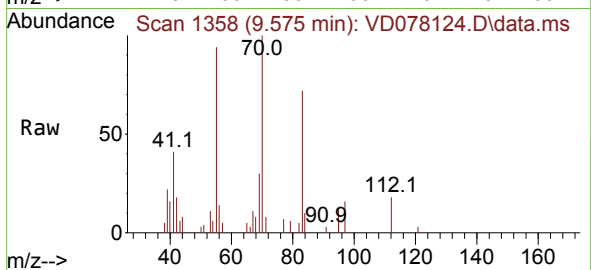
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Acq: 02 Jan 2024 16:51

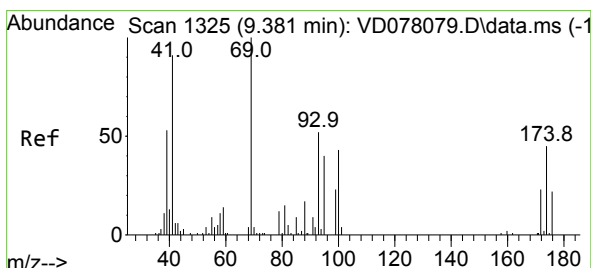
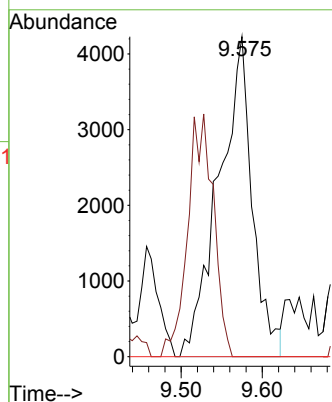
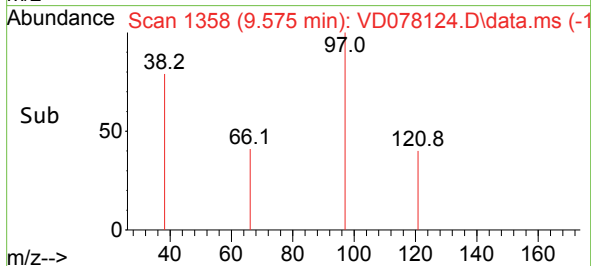
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 83	Resp: 12082
Ion Ratio	Lower Upper
83	100
85	0.0 50.2 75.4#
127	0.0 6.3 9.5#



#48

Methyl methacrylate

Concen: 7.559 ug/l

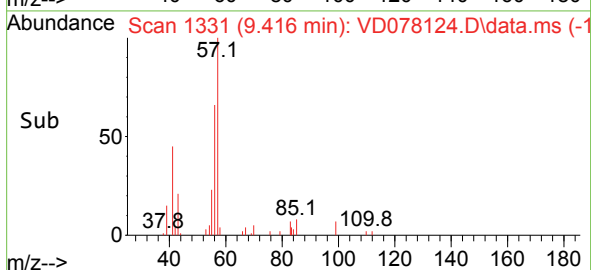
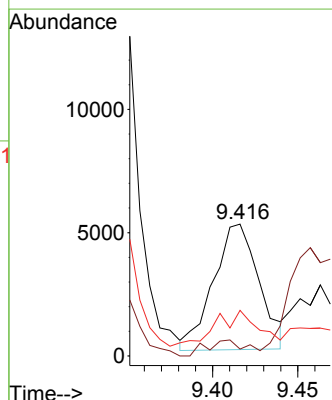
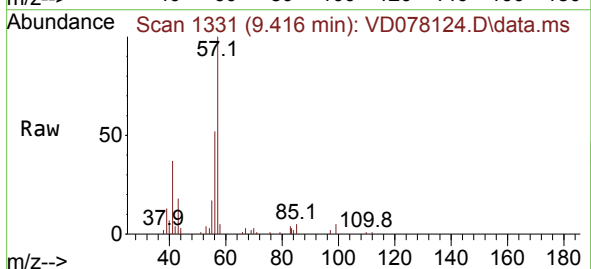
RT: 9.416 min Scan# 1331

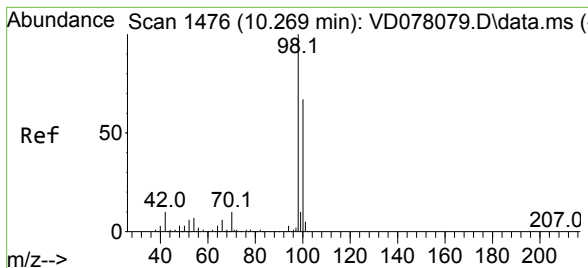
Delta R.T. 0.035 min

Lab File: VD078124.D

Acq: 02 Jan 2024 16:51

Tgt Ion: 41	Resp: 9487
Ion Ratio	Lower Upper
41	100
69	11.0 102.2 153.2#
39	33.6 41.4 62.2#

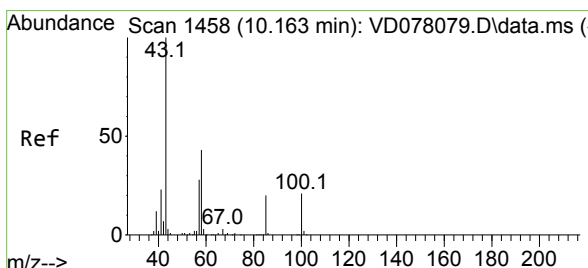
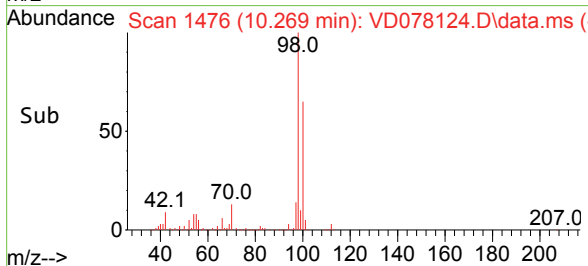
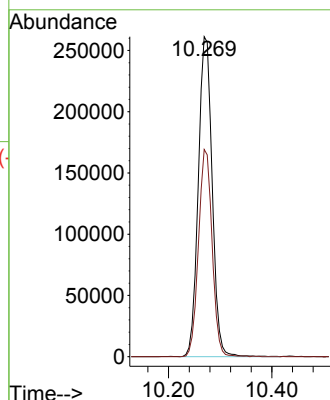
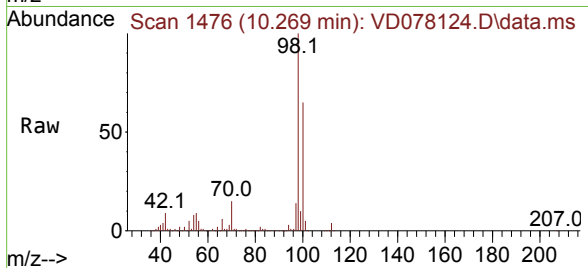




#50
Toluene-d8
Concen: 58.202 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

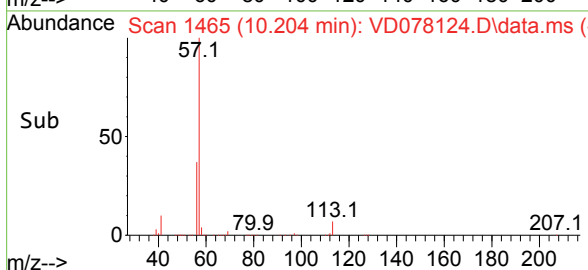
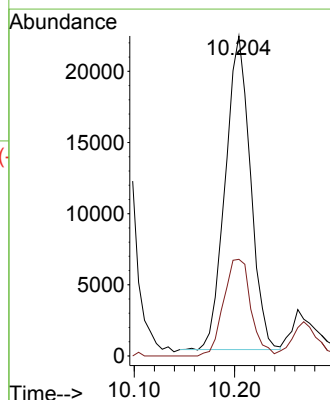
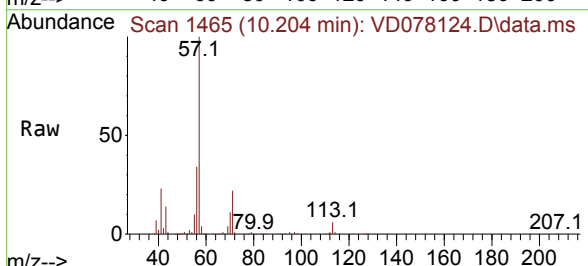
Instrument :
MSVOA_D
ClientSampleId :

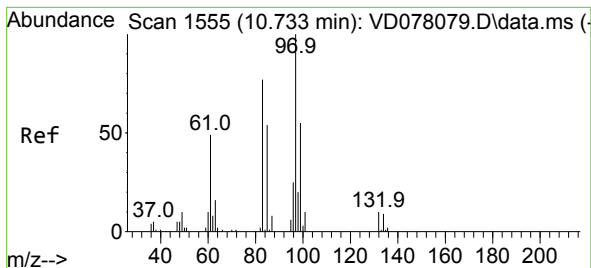
Tgt Ion: 98 Resp: 486775
Ion Ratio Lower Upper
98 100
100 63.4 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 33.577 ug/l
RT: 10.204 min Scan# 1465
Delta R.T. 0.041 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

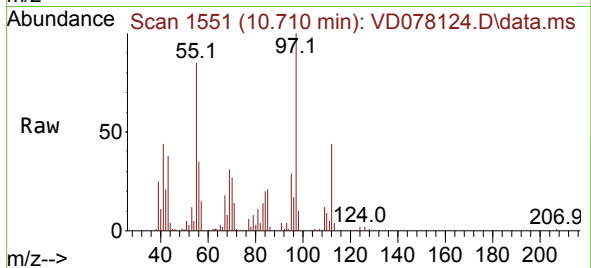
Tgt Ion: 43 Resp: 38367
Ion Ratio Lower Upper
43 100
58 33.3 38.9 58.3#



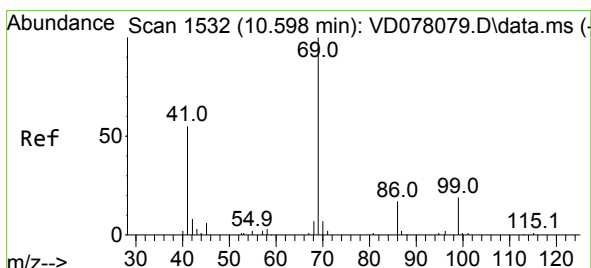
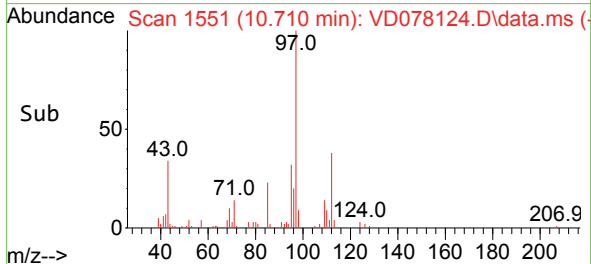
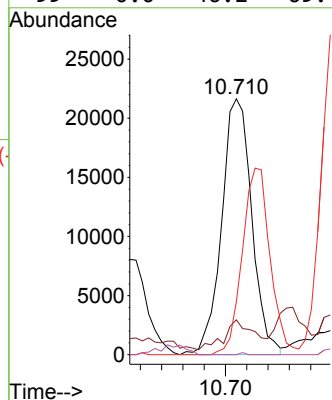


#55
1,1,2-Trichloroethane
Concen: 22.078 ug/l
RT: 10.710 min Scan# 1551
Delta R.T. -0.023 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

Instrument :
MSVOA_D
ClientSampleId :

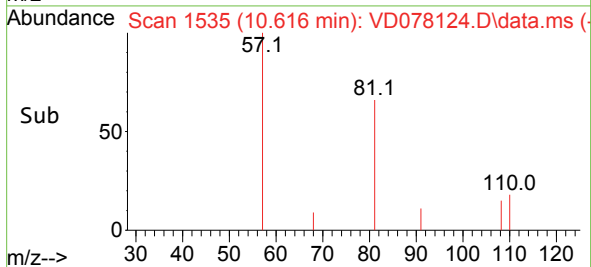
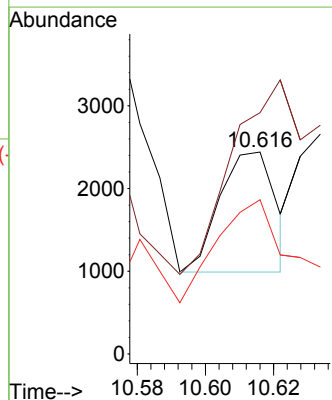
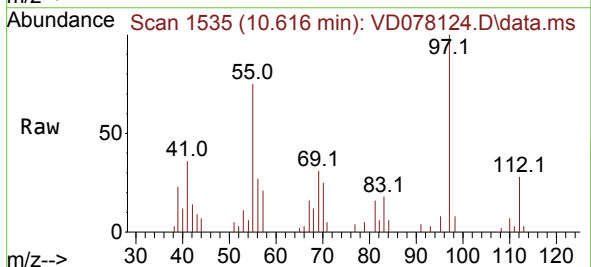


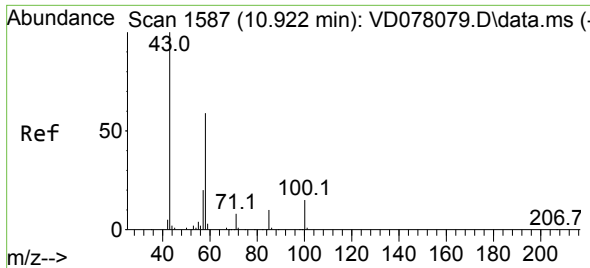
Tgt Ion: 97	Resp: 42503
Ion Ratio	Lower Upper
97 100	
83 11.0	65.8 98.6#
85 20.7	45.7 68.5#
99 0.0	46.2 69.4#



#56
Ethyl methacrylate
Concen: 1.083 ug/l
RT: 10.616 min Scan# 1535
Delta R.T. 0.018 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

Tgt Ion: 69	Resp: 1654		
Ion Ratio	Lower	Upper	
69 100			
41 192.2	39.1	58.7#	
39 110.9	20.0	30.0#	

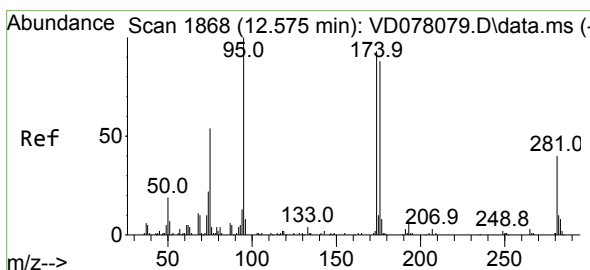
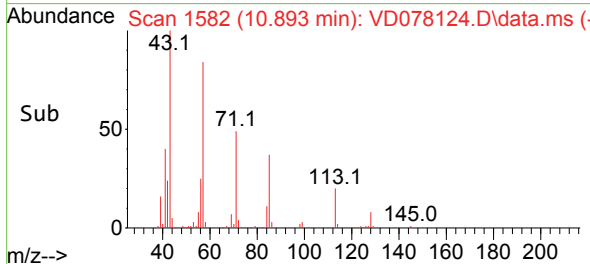
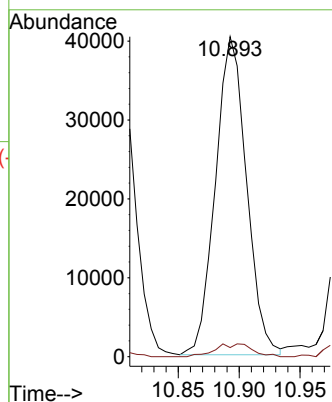
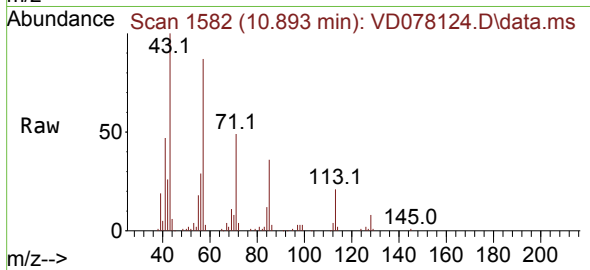




#59
2-Hexanone
Concen: 80.696 ug/l
RT: 10.893 min Scan# 11
Delta R.T. -0.029 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

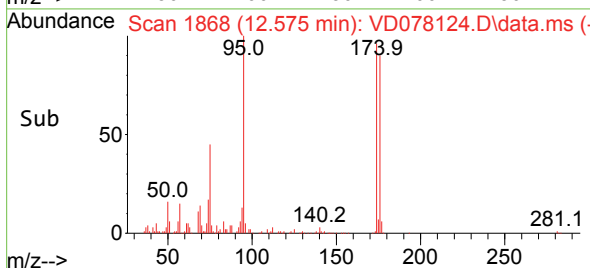
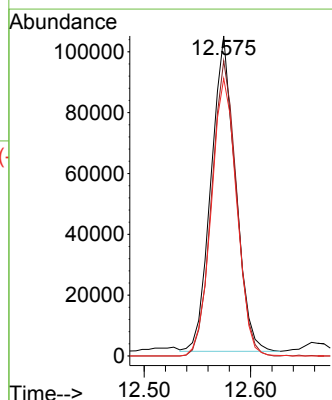
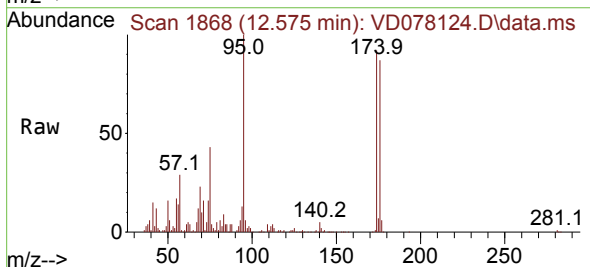
Instrument :
MSVOA_D
ClientSampleId :

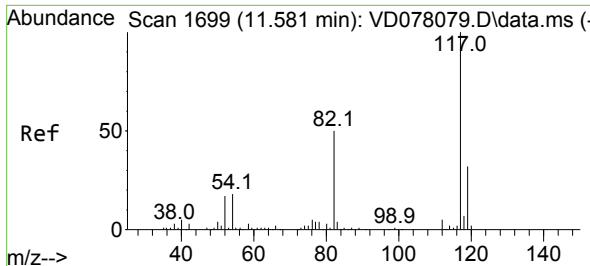
Tgt Ion: 43 Resp: 71624
Ion Ratio Lower Upper
43 100
58 4.8 34.1 102.2#



#62
4-Bromofluorobenzene
Concen: 61.050 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.000 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

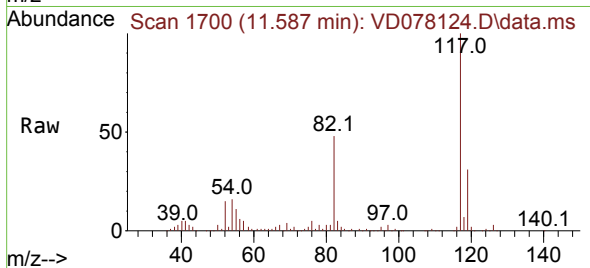
Tgt Ion: 95 Resp: 164289
Ion Ratio Lower Upper
95 100
174 95.5 0.0 201.8
176 91.9 0.0 191.8



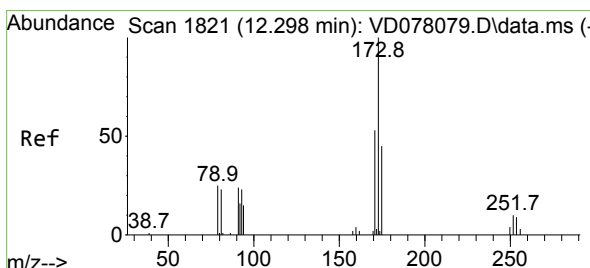
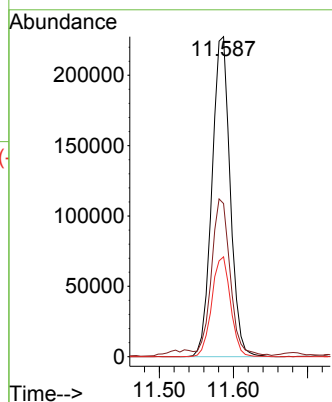
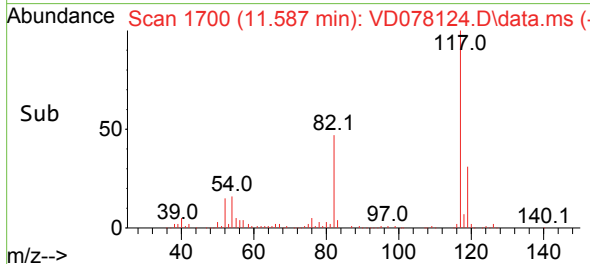


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.587 min Scan# 117
Delta R.T. 0.006 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

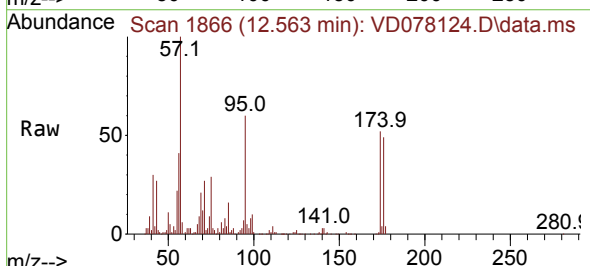
Instrument :
MSVOA_D
ClientSampleId :



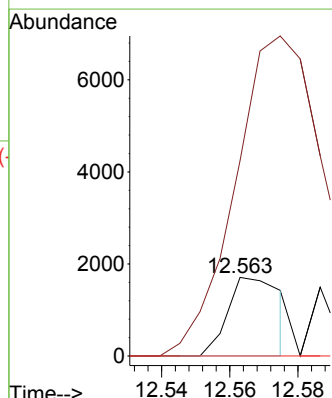
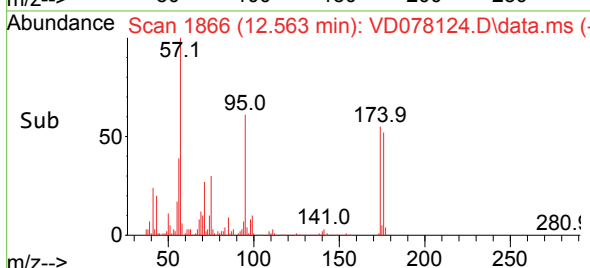
Tgt Ion:117 Resp: 388269
Ion Ratio Lower Upper
117 100
82 47.1 38.3 57.5
119 31.2 25.0 37.4

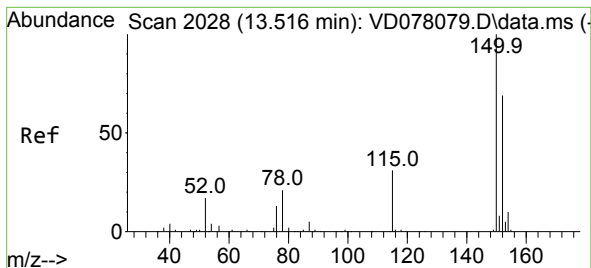


#71
Bromoform
Concen: 1.076 ug/l
RT: 12.563 min Scan# 1866
Delta R.T. 0.265 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51



Tgt Ion:173 Resp: 1853
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.522 min Scan# 2028

Delta R.T. 0.006 min

Lab File: VD078124.D

Acq: 02 Jan 2024 16:51

Instrument :

MSVOA_D

ClientSampleId :

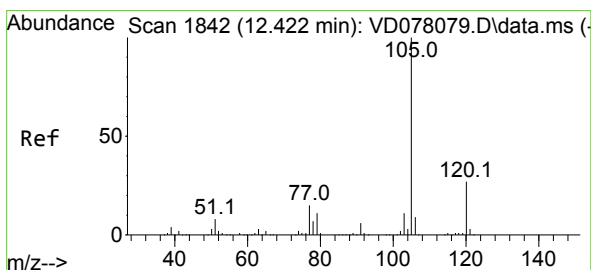
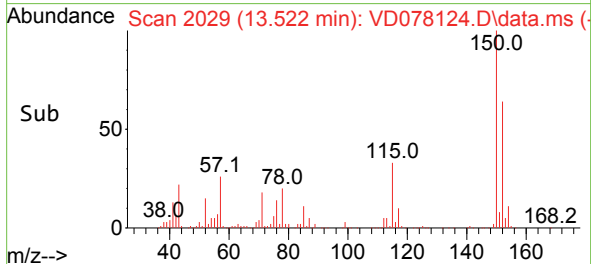
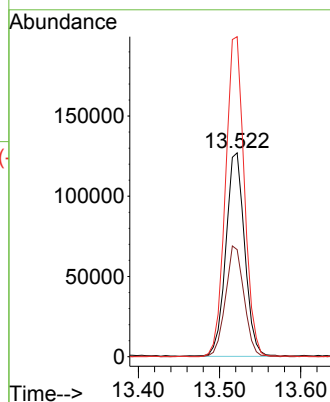
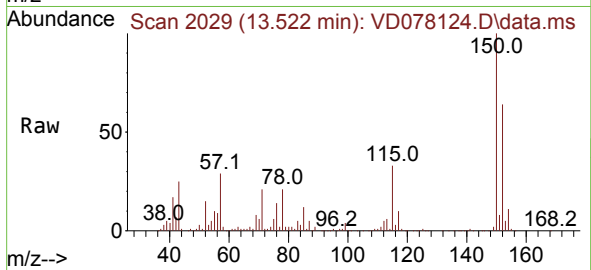
Tgt Ion:152 Resp: 204903

Ion Ratio Lower Upper

152 100

115 53.7 27.1 81.3

150 157.0 0.0 353.6



#73

Isopropylbenzene

Concen: 1.083 ug/l

RT: 12.422 min Scan# 1842

Delta R.T. 0.000 min

Lab File: VD078124.D

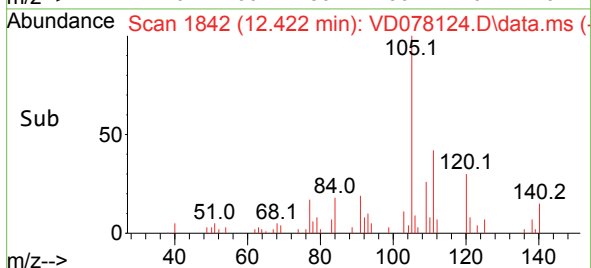
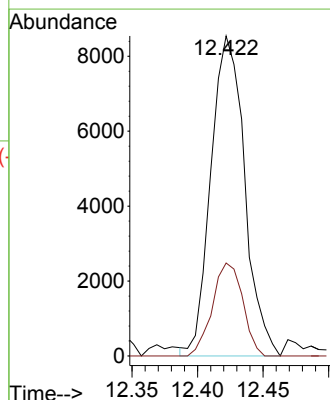
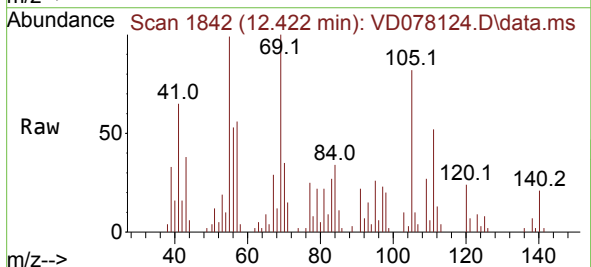
Acq: 02 Jan 2024 16:51

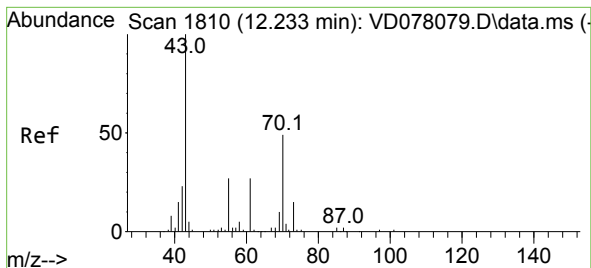
Tgt Ion:105 Resp: 15282

Ion Ratio Lower Upper

105 100

120 26.1 14.3 42.9





#74

N-ethyl acetate

Concen: 23.014 ug/l

RT: 12.216 min Scan# 1807

Delta R.T. -0.017 min

Lab File: VD078124.D

Acq: 02 Jan 2024 16:51

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion: 43 Resp: 53918

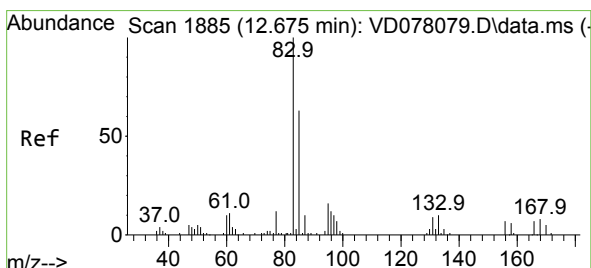
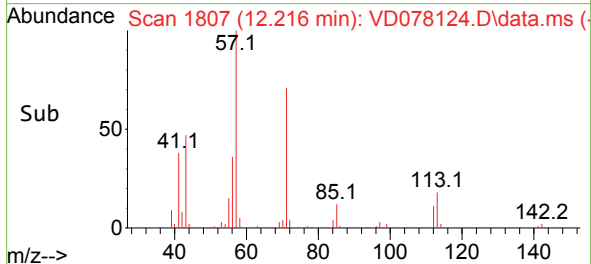
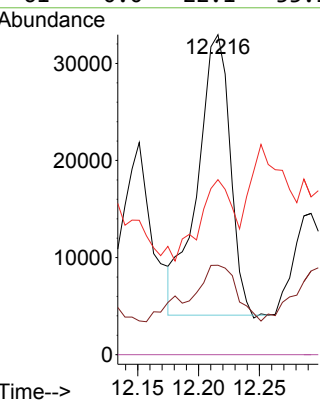
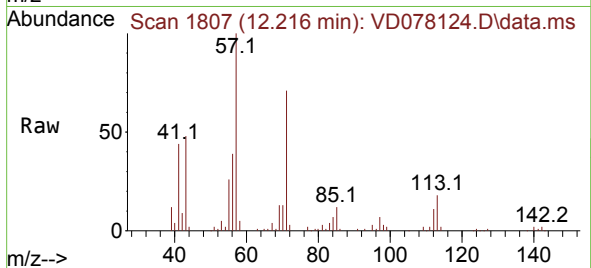
Ion Ratio Lower Upper

43 100

70 22.8 45.0 67.4#

55 29.2 23.8 35.6

61 0.0 22.1 33.1#



#75

1,1,2,2-Tetrachloroethane

Concen: 1.735 ug/l

RT: 12.663 min Scan# 1883

Delta R.T. -0.012 min

Lab File: VD078124.D

Acq: 02 Jan 2024 16:51

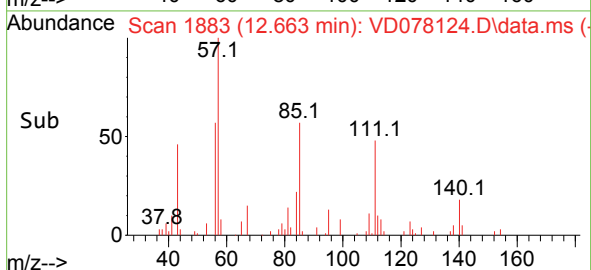
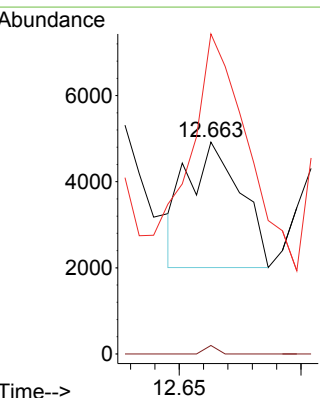
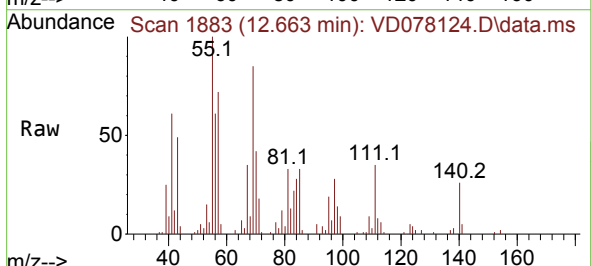
Tgt Ion: 83 Resp: 4450

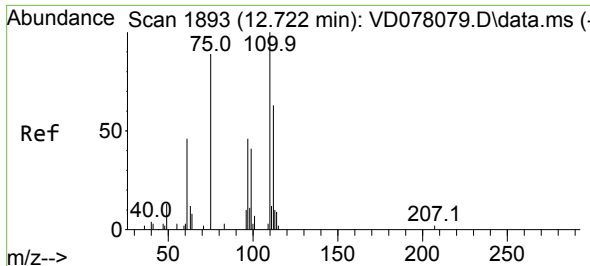
Ion Ratio Lower Upper

83 100

131 1.6 5.1 15.3#

85 288.6 32.6 97.8#

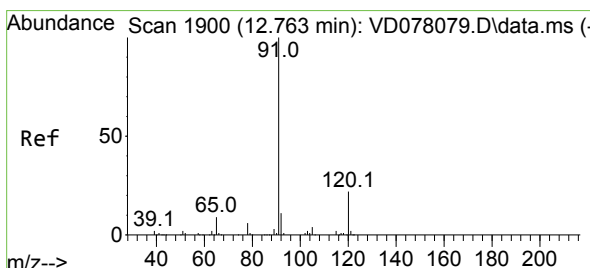
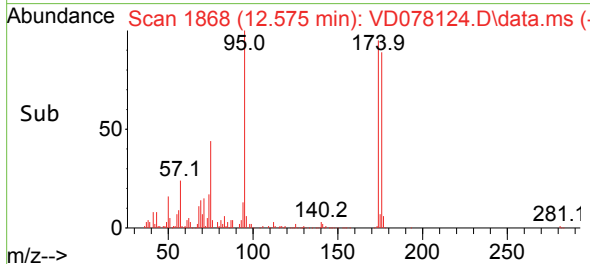
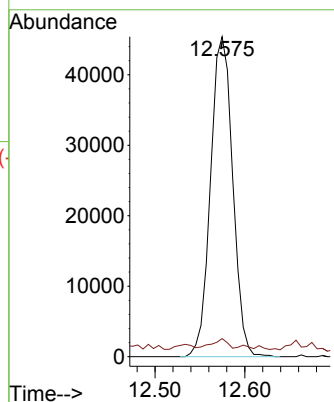
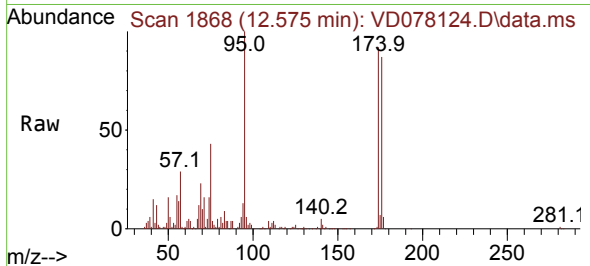




#76
1,2,3-Trichloropropane
Concen: 45.076 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.147 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

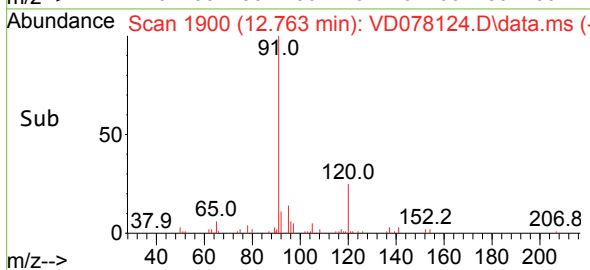
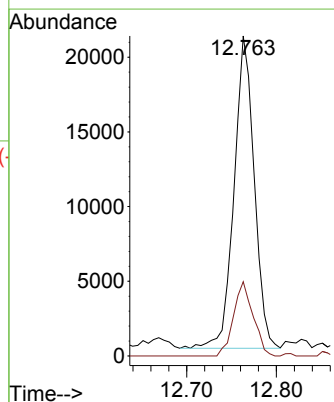
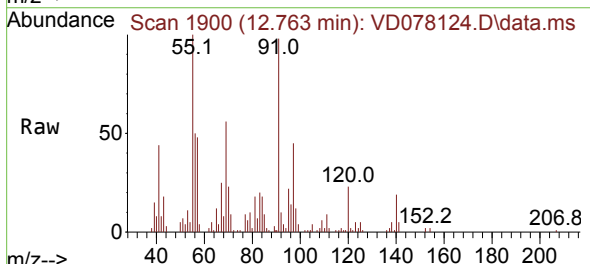
Instrument :
MSVOA_D
ClientSampleId :

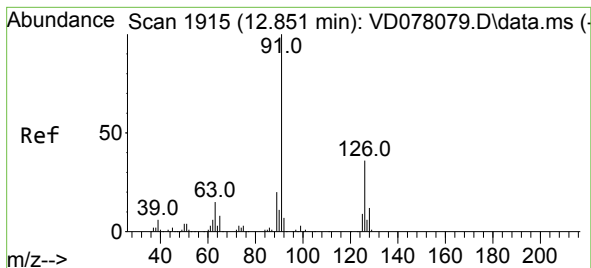
Tgt Ion: 75 Resp: 77922
Ion Ratio Lower Upper
75 100
77 2.2 0.0 0.0#



#78
n-propylbenzene
Concen: 1.924 ug/l
RT: 12.763 min Scan# 1900
Delta R.T. 0.000 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

Tgt Ion: 91 Resp: 32684
Ion Ratio Lower Upper
91 100
120 23.0 12.4 37.2





#79

2-Chlorotoluene

Concen: 3.557 ug/l

RT: 12.763 min Scan# 1915

Delta R.T. -0.088 min

Lab File: VD078124.D

Acq: 02 Jan 2024 16:51

Instrument :

MSVOA_D

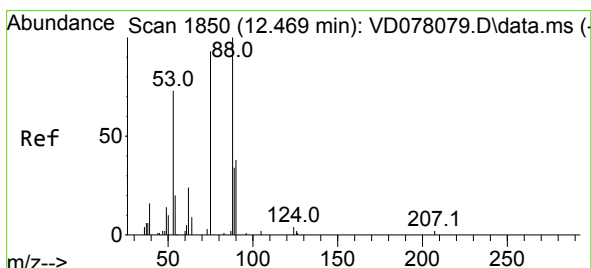
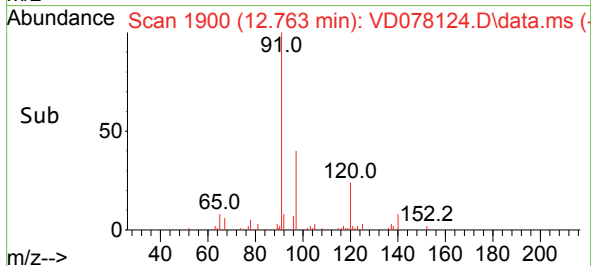
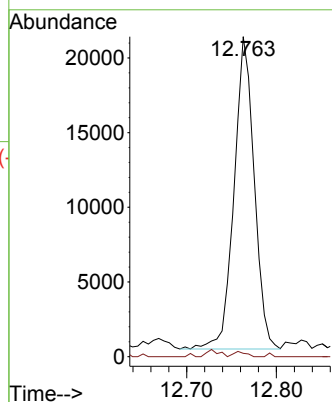
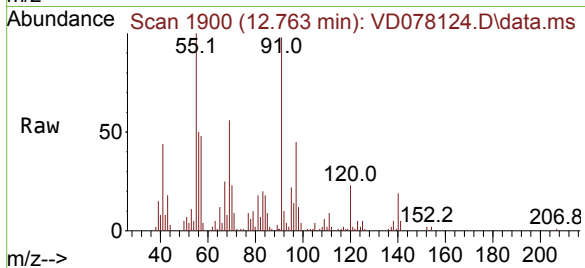
ClientSampleId :

Tgt Ion: 91 Resp: 32684

Ion Ratio Lower Upper

91 100

126 1.0 19.4 58.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 97.128 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. 0.106 min

Lab File: VD078124.D

Acq: 02 Jan 2024 16:51

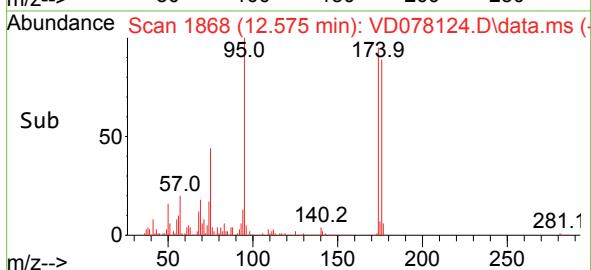
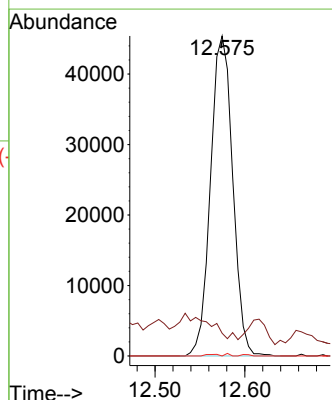
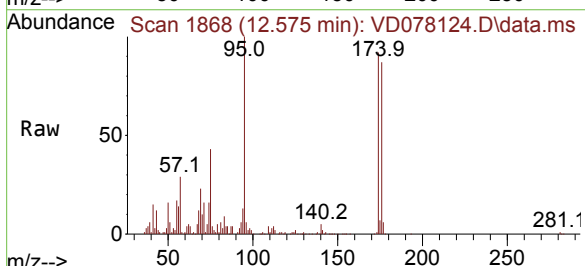
Tgt Ion: 75 Resp: 77922

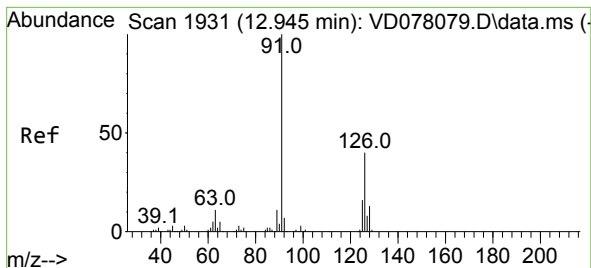
Ion Ratio Lower Upper

75 100

53 0.0 63.0 94.4#

89 0.3 37.9 56.9#





#82

4-Chlorotoluene

Concen: 3.318 ug/l

RT: 12.763 min Scan# 1931

Delta R.T. -0.182 min

Lab File: VD078124.D

Acq: 02 Jan 2024 16:51

Instrument :

MSVOA_D

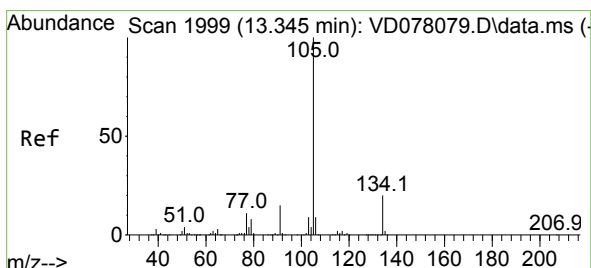
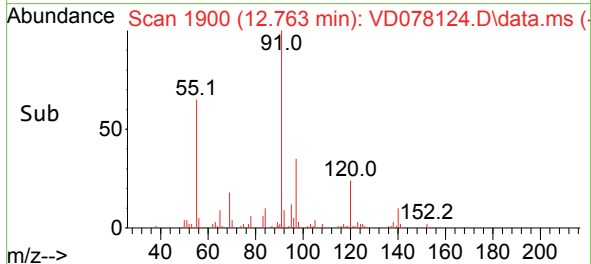
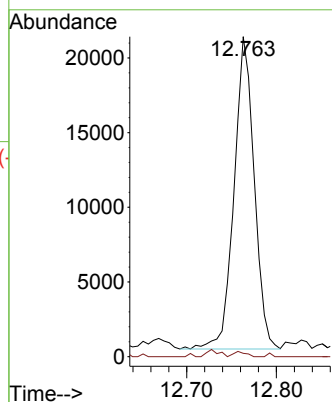
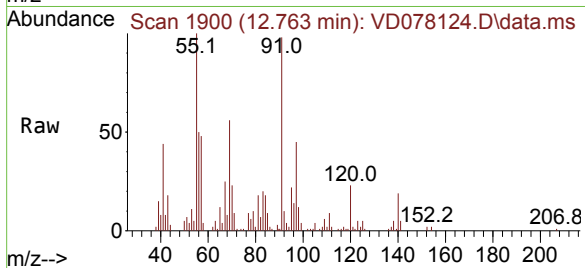
ClientSampleId :

Tgt Ion: 91 Resp: 32684

Ion Ratio Lower Upper

91 100

126 1.0 19.4 58.4#



#85

sec-Butylbenzene

Concen: 1.756 ug/l

RT: 13.351 min Scan# 2000

Delta R.T. 0.006 min

Lab File: VD078124.D

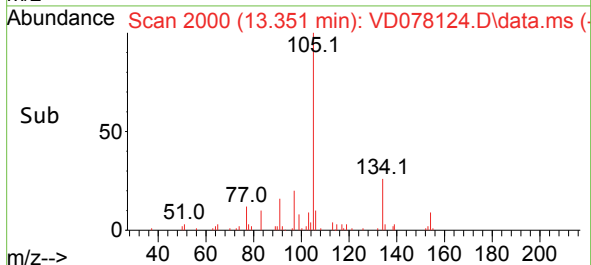
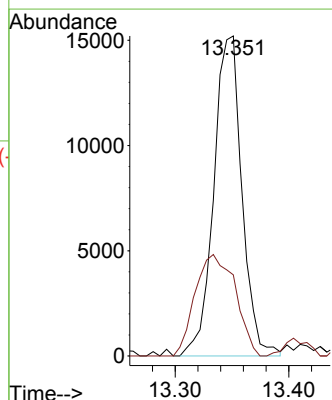
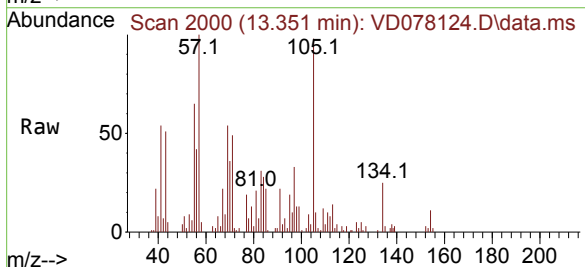
Acq: 02 Jan 2024 16:51

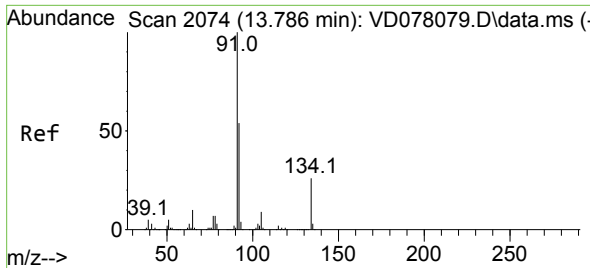
Tgt Ion: 105 Resp: 26220

Ion Ratio Lower Upper

105 100

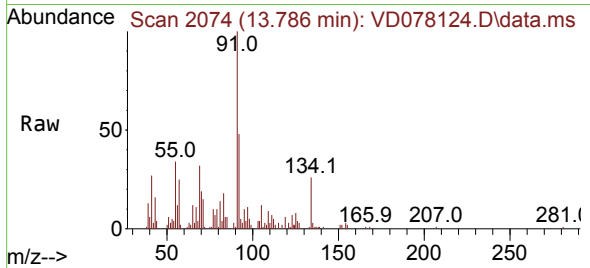
134 45.2 10.9 32.9#



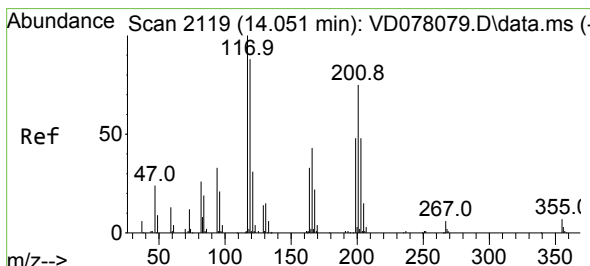
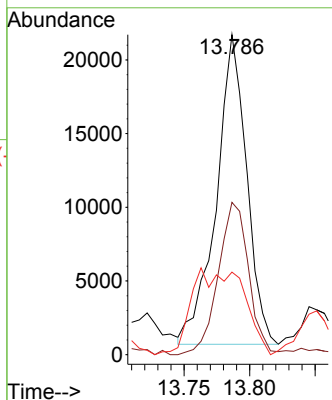
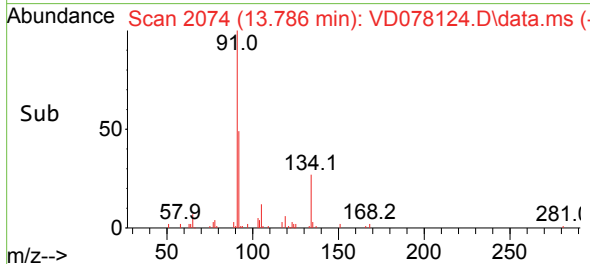


#89
n-Butylbenzene
Concen: 2.759 ug/l
RT: 13.786 min Scan# 2074
Delta R.T. 0.000 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

Instrument :
MSVOA_D
ClientSampleId :

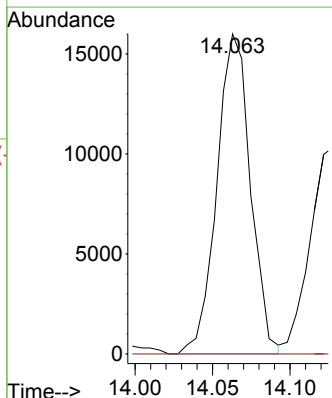
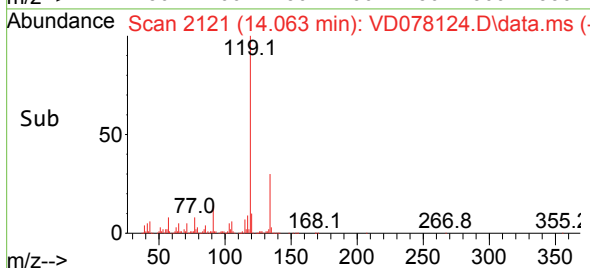
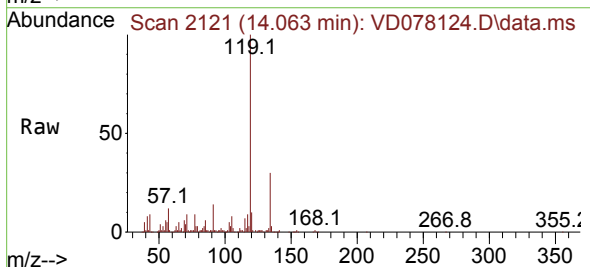


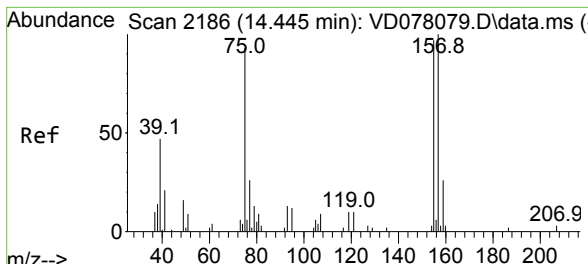
Tgt Ion: 91 Resp: 33838
Ion Ratio Lower Upper
91 100
92 49.1 26.5 79.5
134 0.0 13.8 41.3#



#90
Hexachloroethane
Concen: 9.013 ug/l
RT: 14.063 min Scan# 2121
Delta R.T. 0.012 min
Lab File: VD078124.D
Acq: 02 Jan 2024 16:51

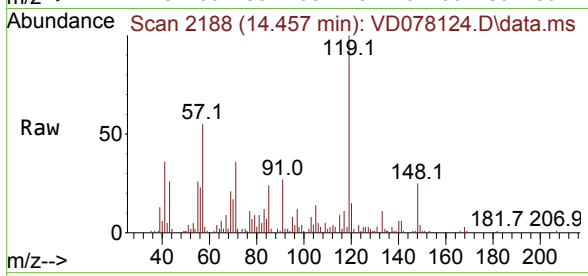
Tgt Ion: 117 Resp: 24072
Ion Ratio Lower Upper
117 100
201 0.0 38.5 115.5#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.804 ug/l
 RT: 14.457 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VD078124.D
 Acq: 02 Jan 2024 16:51

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion: 75 Resp: 648

Ion	Ratio	Lower	Upper
75	100		
155	40.3	47.9	143.8#
157	0.0	59.9	179.7#

