

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD013124\
 Data File : VD078291.D
 Acq On : 31 Jan 2024 14:06
 Operator : RP/MD
 Sample : VIBLK
 Misc : 5.00G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

Quant Time: Feb 01 02:59:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D013024S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 31 00:23:33 2024
 Response via : Initial Calibration

Compound	R.T.	T.Q	Ion	Response	Conc	Units	Dev(Min)

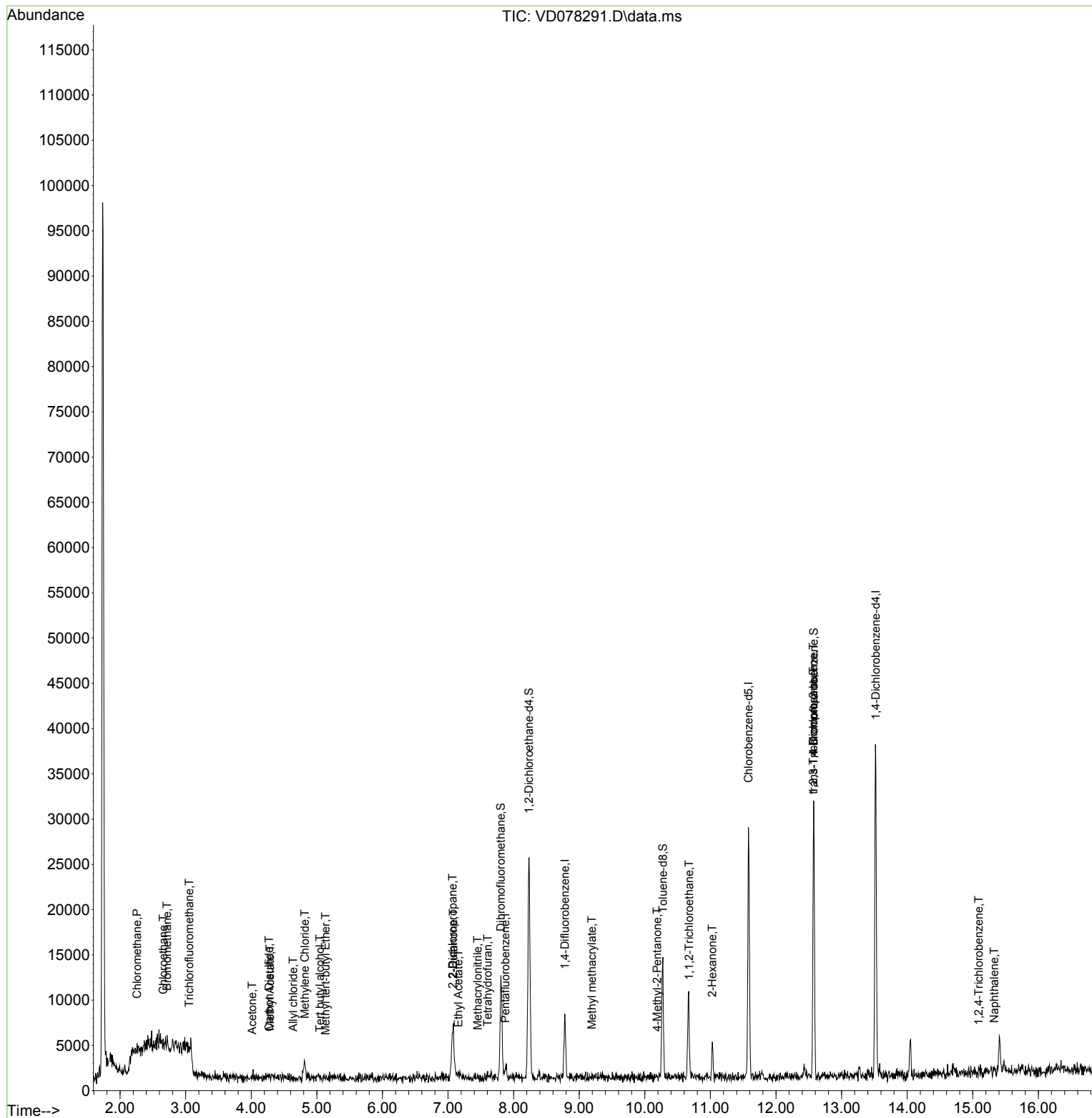
Internal Standards							
1) Pentafluorobenzene	7.875	168		1500	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.781	114		6432	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117		15880	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.522	152		10060	50.000	ug/l	0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.234	65		19201	1034.033	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 2068.060%#		
35) Dibromofluoromethane	7.805	113		7425	162.149	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 324.300%#		
50) Toluene-d8	10.275	98		9665	55.749	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 111.500%		
62) 4-Bromofluorobenzene	12.575	95		8869	170.825	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 341.640%#		
Target Compounds							
							Qvalue
3) Chloromethane	2.258	50		74	2.372	ug/l	# 41
5) Bromomethane	2.717	94		428	17.176	ug/l	# 28
6) Chloroethane	2.658	64		72	2.533	ug/l	# 43
7) Trichlorofluoromethane	3.052	101		56	1.607	ug/l	# 17
11) Tert butyl alcohol	5.046	59		68	57.411	ug/l	# 73
14) Allyl chloride	4.640	41		93	3.418	ug/l	# 1
16) Acetone	4.017	43		486	102.996	ug/l	# 32
17) Carbon Disulfide	4.269	76		70	1.005	ug/l	# 76
18) Methyl Acetate	4.287	43		55	5.557	ug/l	# 42
19) Methyl tert-butyl Ether	5.134	73		53	1.235	ug/l	# 55
20) Methylene Chloride	4.817	84		923	40.491	ug/l	# 83
25) 2-Butanone	7.081	43		77	12.444	ug/l	# 37
26) 2,2-Dichloropropane	7.069	77		218	6.659	ug/l	# 49
29) Tetrahydrofuran	7.605	42		56	16.918	ug/l	# 23
37) Ethyl Acetate	7.158	43		360	12.318	ug/l	# 62
41) Methacrylonitrile	7.452	41		54	3.437	ug/l	# 6
48) Methyl methacrylate	9.193	41		62	2.476	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.187	43		62	2.187	ug/l	# 28
55) 1,1,2-Trichloroethane	10.675	97		236	6.017	ug/l	# 16
59) 2-Hexanone	11.028	43		57	2.670	ug/l	# 16
76) 1,2,3-Trichloropropane	12.569	75		4692	44.624	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.569	75		4692	88.748	ug/l	# 17
93) 1,2,4-Trichlorobenzene	15.092	180		348	1.807	ug/l	# 30
95) Naphthalene	15.328	128		745	1.940	ug/l	# 69

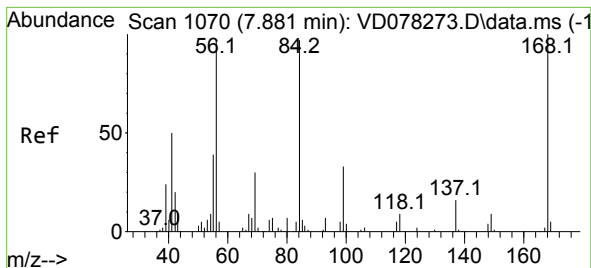
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jan 31 00:23:33 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.875 min Scan# 10

Delta R.T. -0.006 min

Lab File: VD078291.D

Acq: 31 Jan 2024 14:06

Instrument :

MSVOA_D

ClientSampleId :

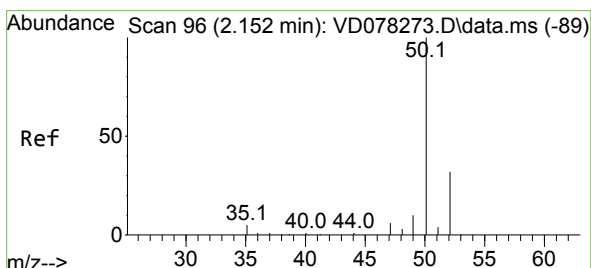
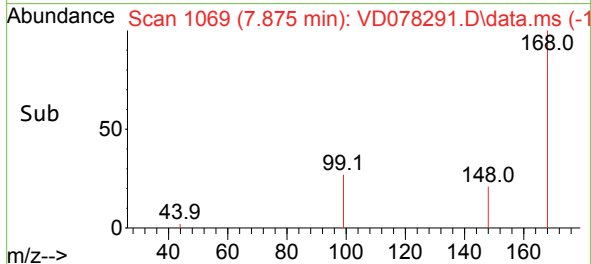
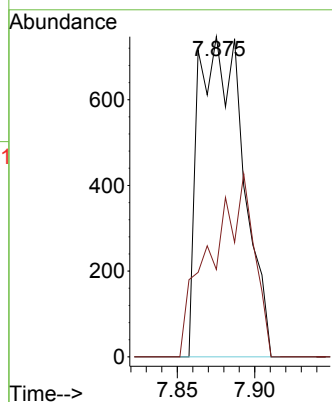
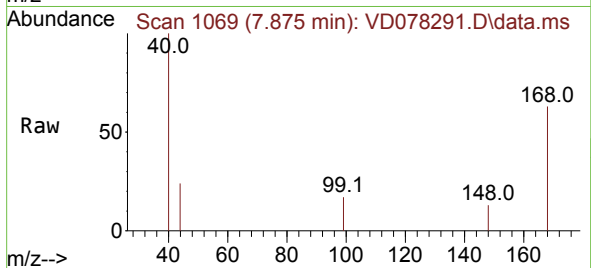
VIBLK

Tgt Ion:168 Resp: 1500

Ion Ratio Lower Upper

168 100

99 27.3 36.7 55.1#



#3

Chloromethane

Concen: 2.372 ug/l

RT: 2.258 min Scan# 114

Delta R.T. 0.106 min

Lab File: VD078291.D

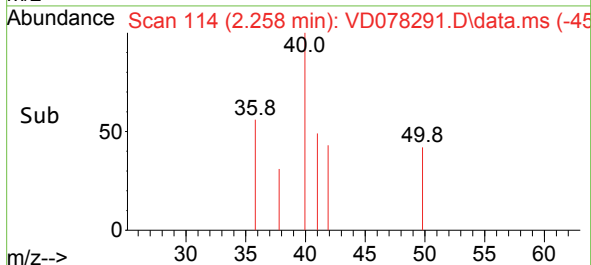
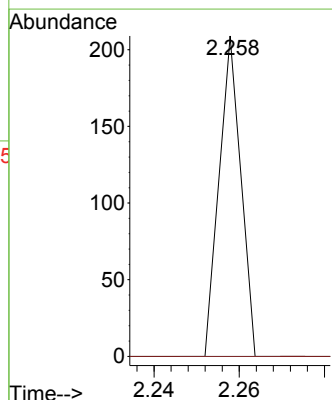
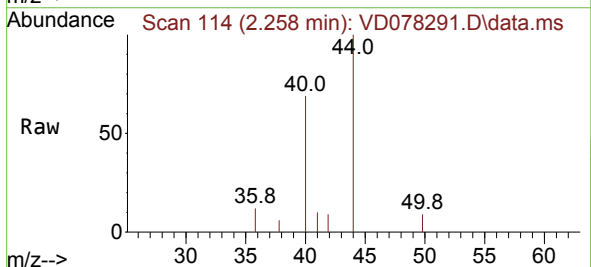
Acq: 31 Jan 2024 14:06

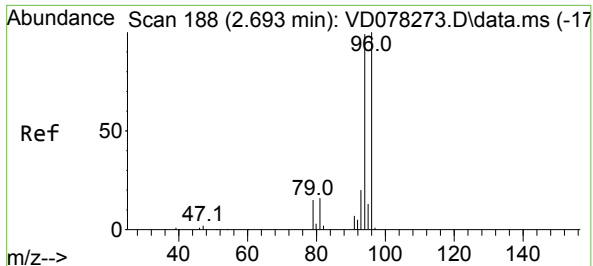
Tgt Ion: 50 Resp: 74

Ion Ratio Lower Upper

50 100

52 0.0 26.6 40.0#

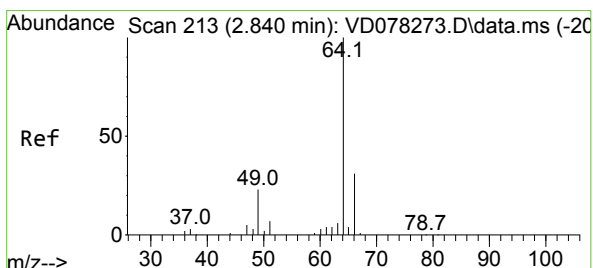
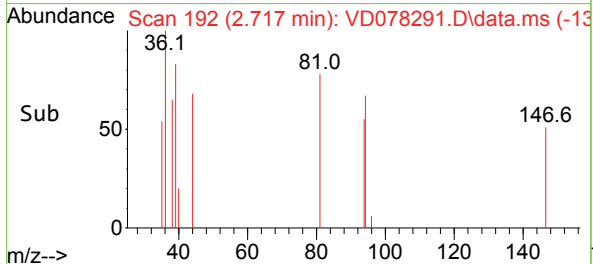
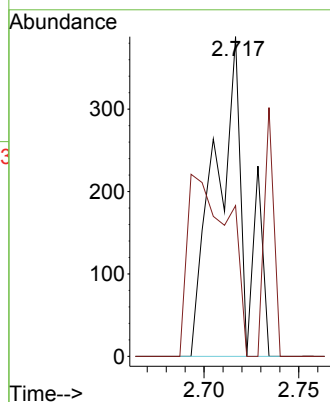
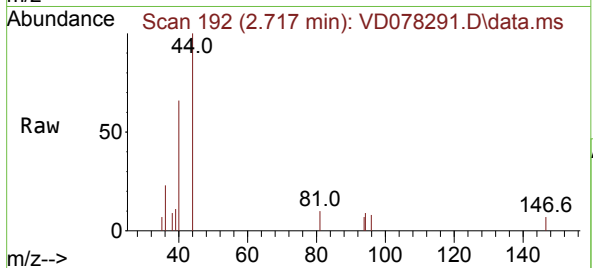




#5
Bromomethane
Concen: 17.176 ug/l
RT: 2.717 min Scan# 192
Delta R.T. 0.024 min
Lab File: VD078291.D
Acq: 31 Jan 2024 14:06

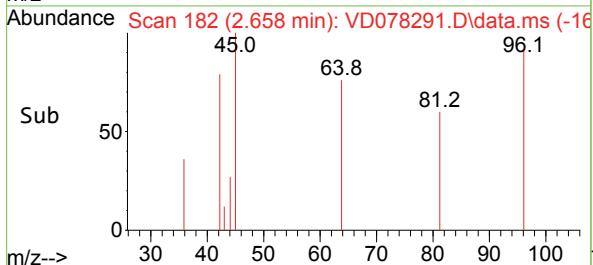
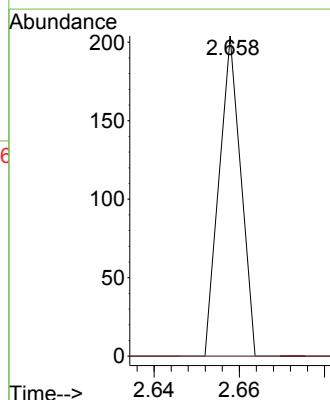
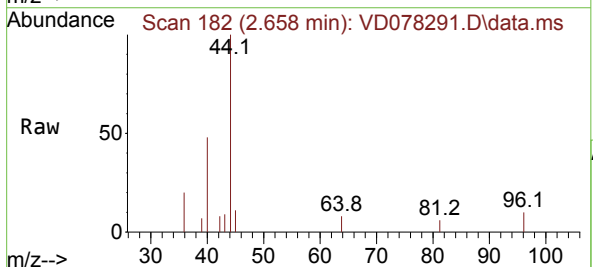
Instrument :
MSVOA_D
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VIBLK

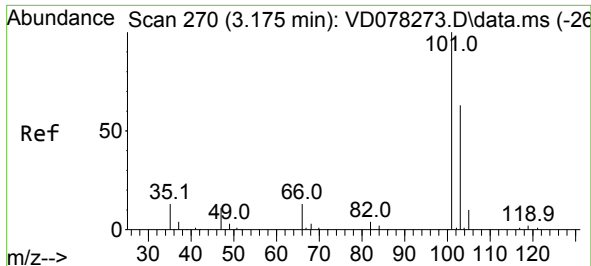
Tgt Ion: 94 Resp: 428
Ion Ratio Lower Upper
94 100
96 25.0 75.8 113.8#



#6
Chloroethane
Concen: 2.533 ug/l
RT: 2.658 min Scan# 182
Delta R.T. -0.182 min
Lab File: VD078291.D
Acq: 31 Jan 2024 14:06

Tgt Ion: 64 Resp: 72
Ion Ratio Lower Upper
64 100
66 0.0 25.5 38.3#

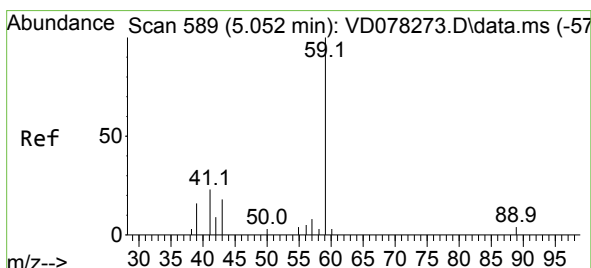
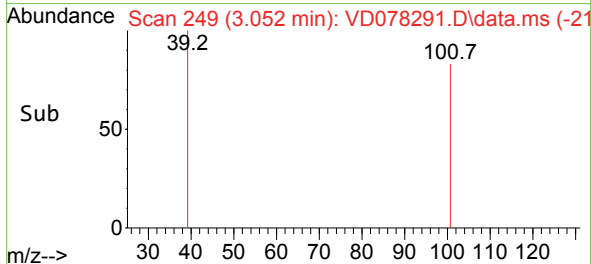
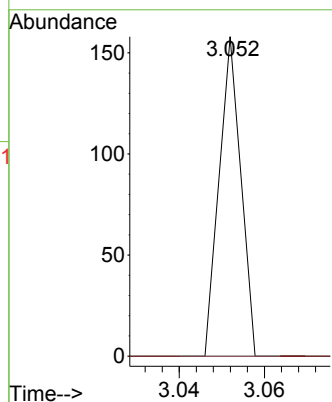
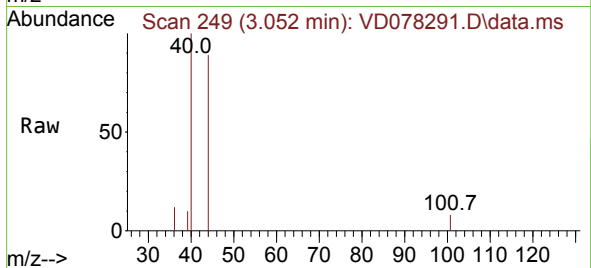




#7
 Trichlorofluoromethane
 Concen: 1.607 ug/l
 RT: 3.052 min Scan# 249
 Delta R.T. -0.123 min
 Lab File: VD078291.D
 Acq: 31 Jan 2024 14:06

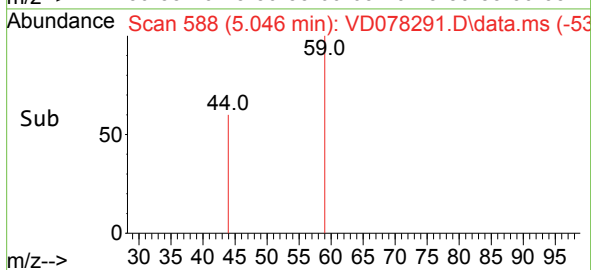
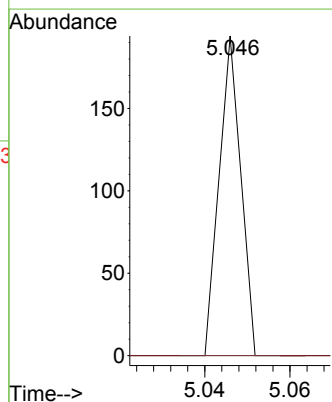
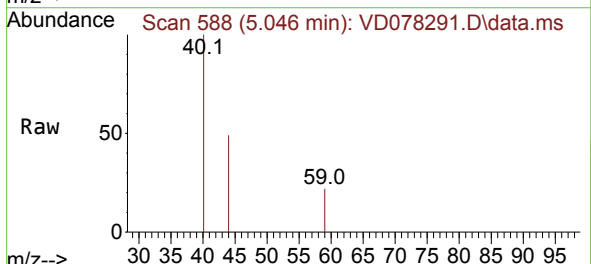
Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

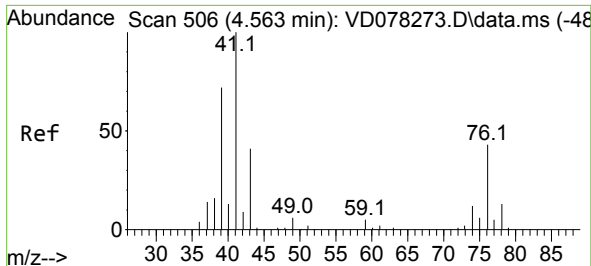
Tgt Ion:101 Resp: 56
 Ion Ratio Lower Upper
 101 100
 103 0.0 52.3 78.5#



#11
 Tert butyl alcohol
 Concen: 57.411 ug/l
 RT: 5.046 min Scan# 588
 Delta R.T. -0.006 min
 Lab File: VD078291.D
 Acq: 31 Jan 2024 14:06

Tgt Ion: 59 Resp: 68
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

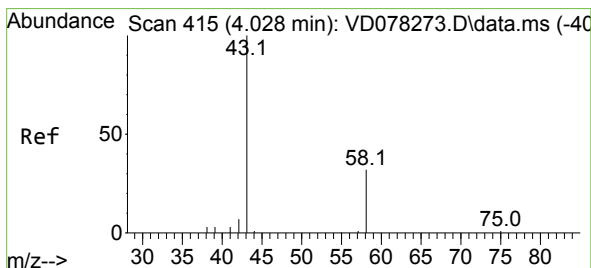
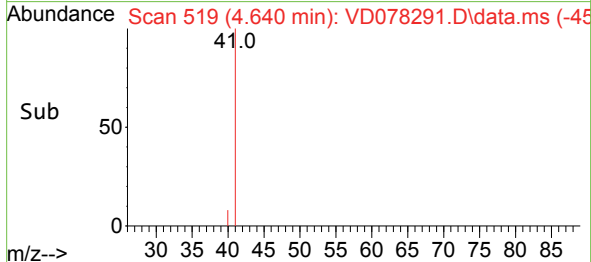
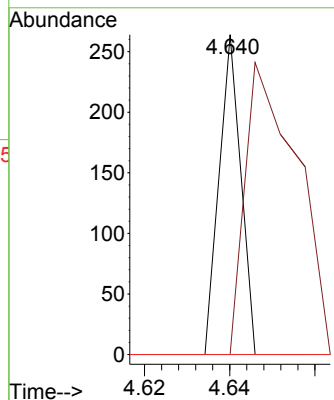
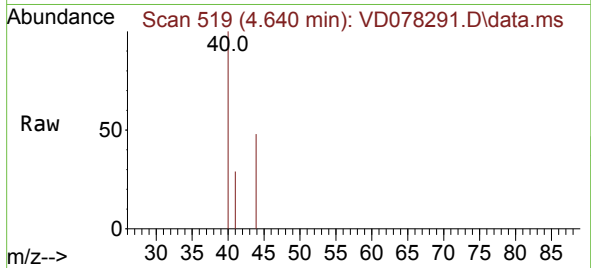




#14
Allyl chloride
Concen: 3.418 ug/l
RT: 4.640 min Scan# 519
Delta R.T. 0.077 min
Lab File: VD078291.D
Acq: 31 Jan 2024 14:06

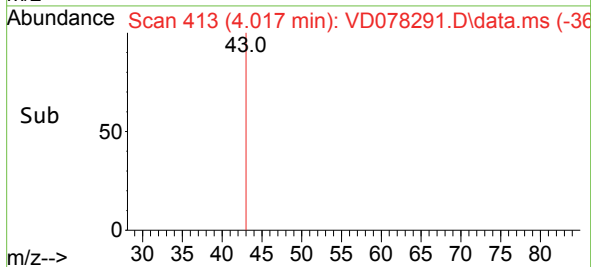
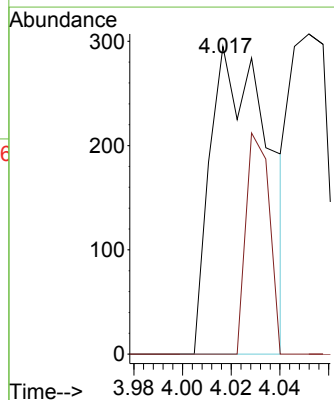
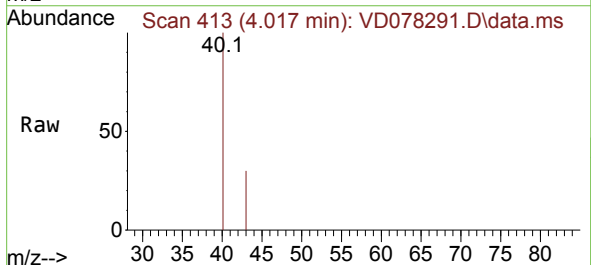
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

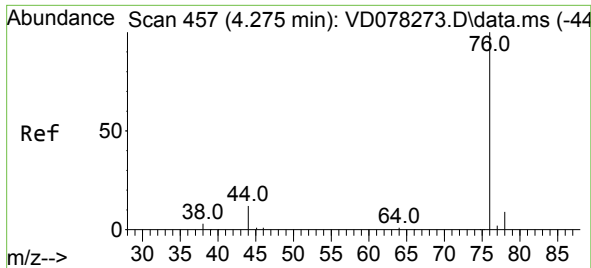
Tgt Ion	Ratio	Lower	Upper
41	100		
39	219.4	53.8	80.6#
76	0.0	45.8	68.8#



#16
Acetone
Concen: 102.996 ug/l
RT: 4.017 min Scan# 413
Delta R.T. -0.011 min
Lab File: VD078291.D
Acq: 31 Jan 2024 14:06

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	34.7	52.1#

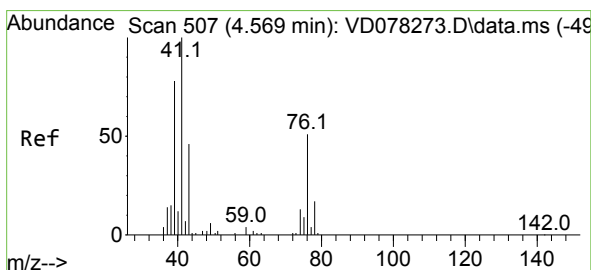
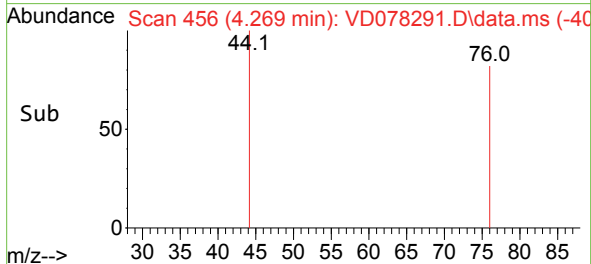
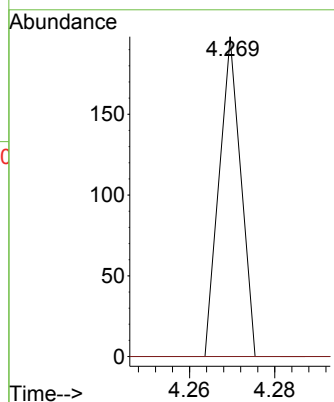
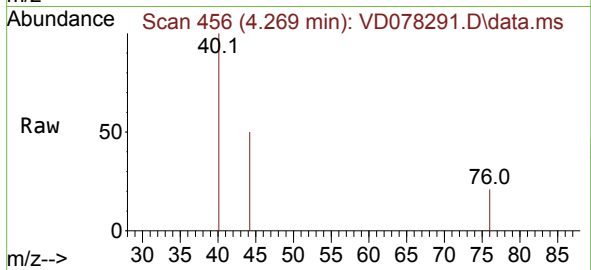




#17
Carbon Disulfide
Concen: 1.005 ug/l
RT: 4.269 min Scan# 41
Delta R.T. -0.006 min
Lab File: VD078291.D
Acq: 31 Jan 2024 14:06

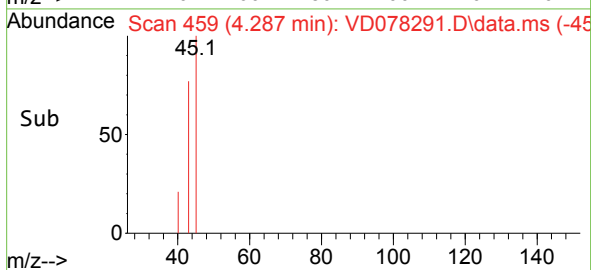
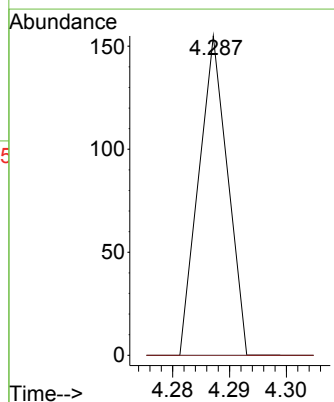
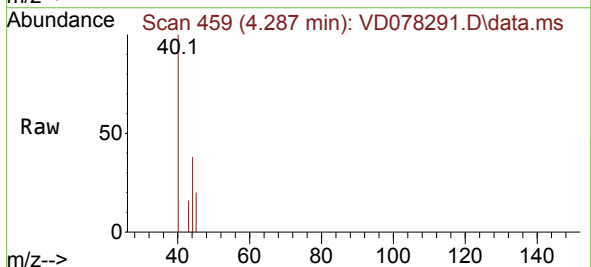
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

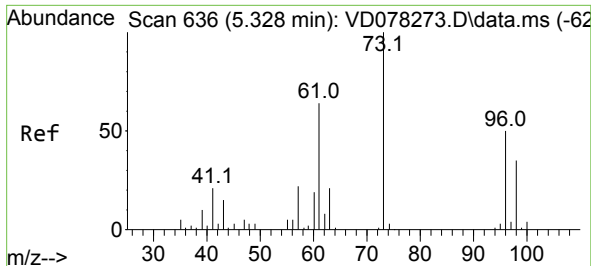
Tgt Ion: 76 Resp: 70
Ion Ratio Lower Upper
76 100
78 0.0 6.8 10.2#



#18
Methyl Acetate
Concen: 5.557 ug/l
RT: 4.287 min Scan# 459
Delta R.T. -0.282 min
Lab File: VD078291.D
Acq: 31 Jan 2024 14:06

Tgt Ion: 43 Resp: 55
Ion Ratio Lower Upper
43 100
74 0.0 26.4 39.6#





#19

Methyl tert-butyl Ether

Concen: 1.235 ug/l

RT: 5.134 min Scan# 603

Delta R.T. -0.194 min

Lab File: VD078291.D

Acq: 31 Jan 2024 14:06

Instrument :

MSVOA_D

ClientSampleId :

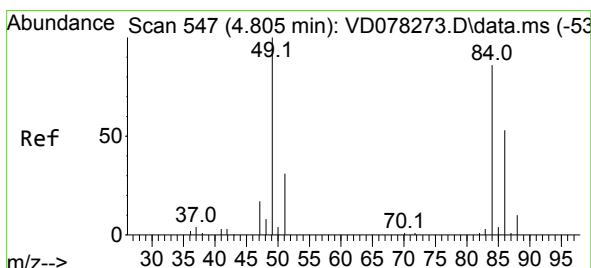
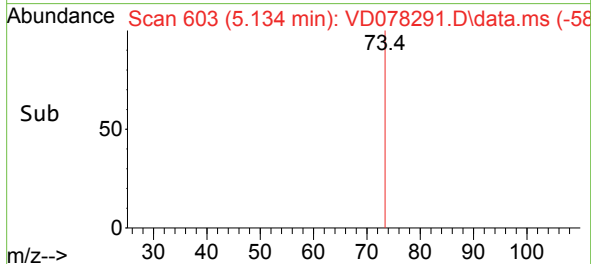
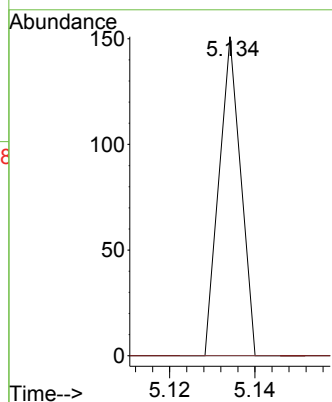
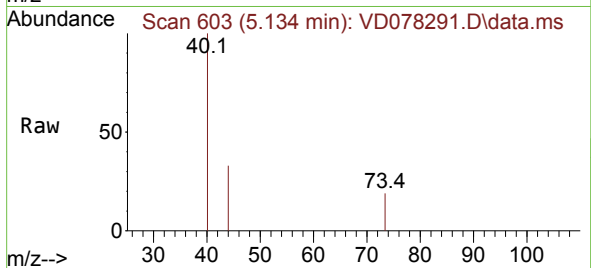
VIBLK

Tgt Ion: 73 Resp: 53

Ion Ratio Lower Upper

73 100

57 0.0 16.6 25.0#



#20

Methylene Chloride

Concen: 40.491 ug/l

RT: 4.817 min Scan# 549

Delta R.T. 0.012 min

Lab File: VD078291.D

Acq: 31 Jan 2024 14:06

Tgt Ion: 84 Resp: 923

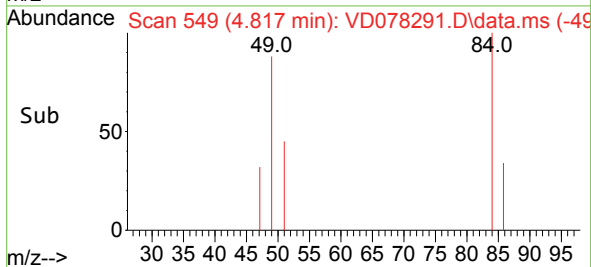
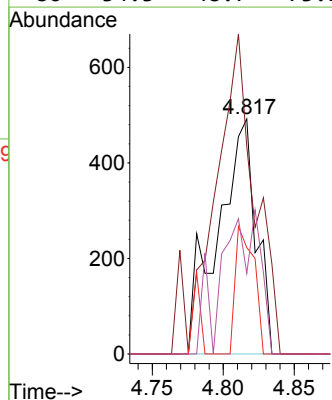
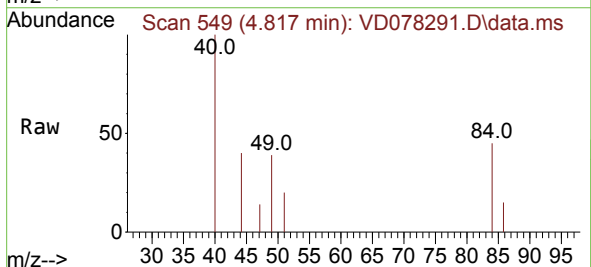
Ion Ratio Lower Upper

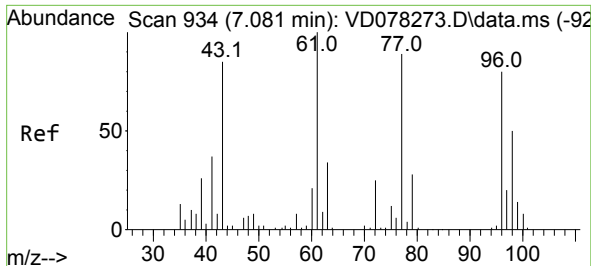
84 100

49 88.4 71.4 107.2

51 45.3 24.5 36.7#

86 34.3 48.7 73.1#

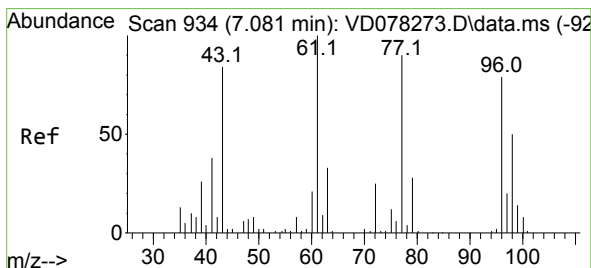
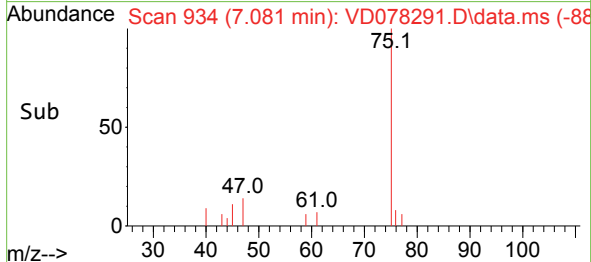
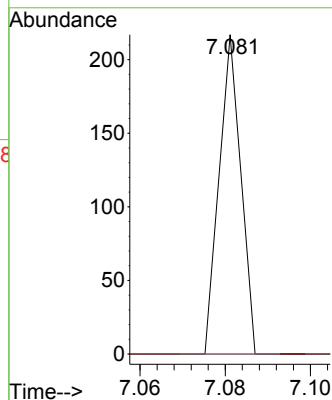
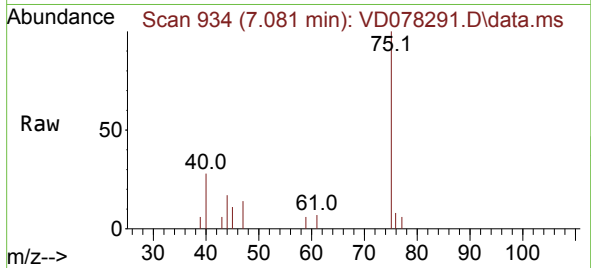




#25
2-Butanone
Concen: 12.444 ug/l
RT: 7.081 min Scan# 91
Delta R.T. 0.000 min
Lab File: VD078291.D
Acq: 31 Jan 2024 14:06

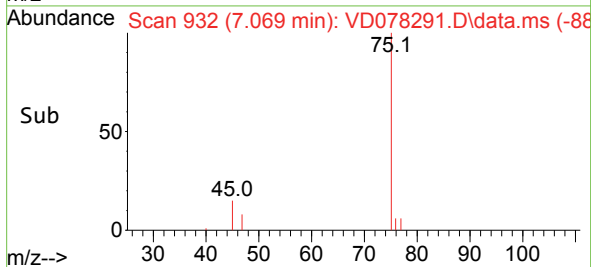
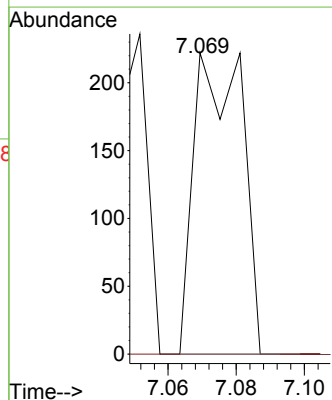
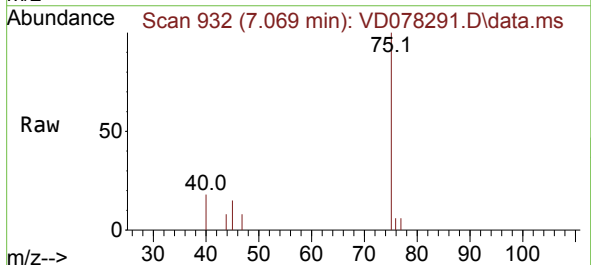
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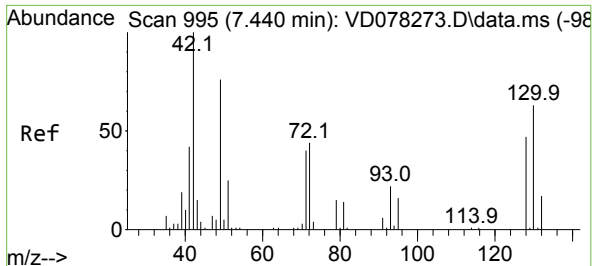
Tgt Ion: 43 Resp: 77
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#



#26
2,2-Dichloropropane
Concen: 6.659 ug/l
RT: 7.069 min Scan# 932
Delta R.T. -0.012 min
Lab File: VD078291.D
Acq: 31 Jan 2024 14:06

Tgt Ion: 77 Resp: 218
Ion Ratio Lower Upper
77 100
97 0.0 13.2 39.6#





#29

Tetrahydrofuran

Concen: 16.918 ug/l

RT: 7.605 min Scan# 110

Delta R.T. 0.165 min

Lab File: VD078291.D

Acq: 31 Jan 2024 14:06

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

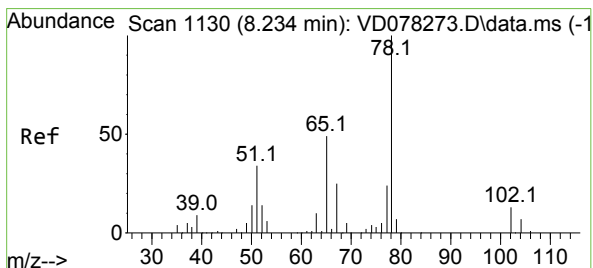
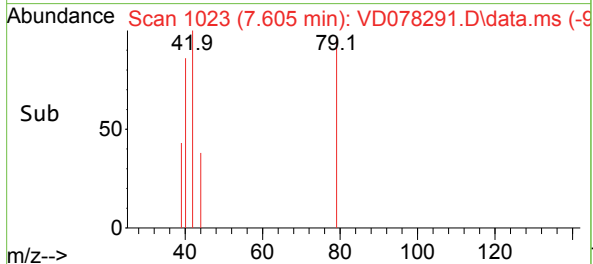
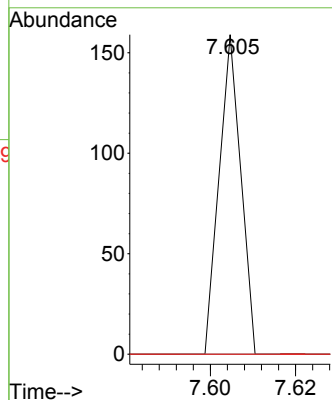
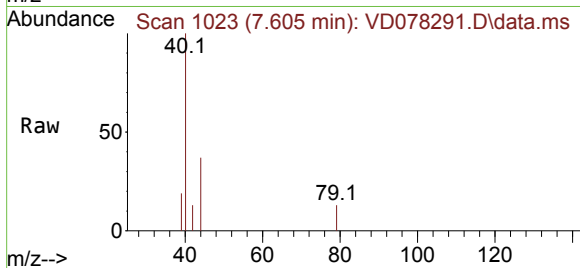
Tgt Ion: 42 Resp: 56

Ion Ratio Lower Upper

42 100

72 0.0 46.5 69.7#

71 0.0 44.5 66.7#



#33

1,2-Dichloroethane-d4

Concen: 1034.033 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VD078291.D

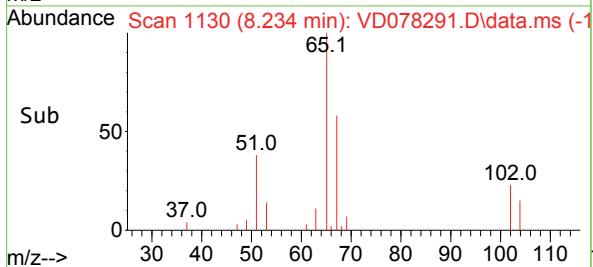
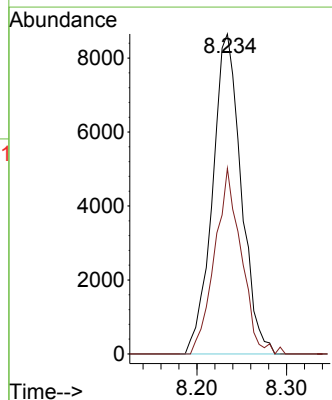
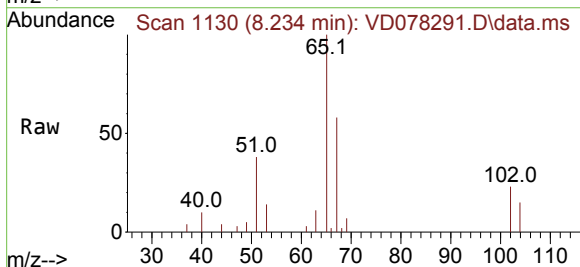
Acq: 31 Jan 2024 14:06

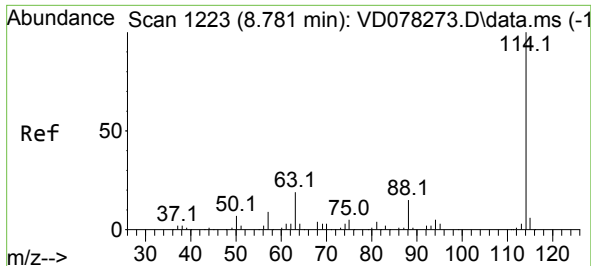
Tgt Ion: 65 Resp: 19201

Ion Ratio Lower Upper

65 100

67 53.8 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: VD078291.D

Acq: 31 Jan 2024 14:06

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

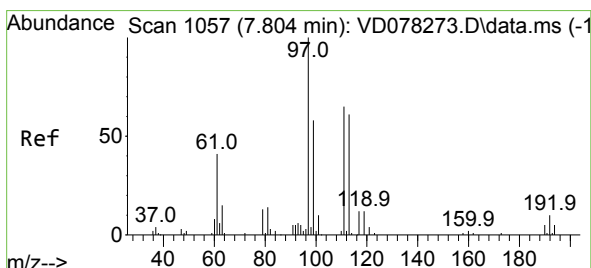
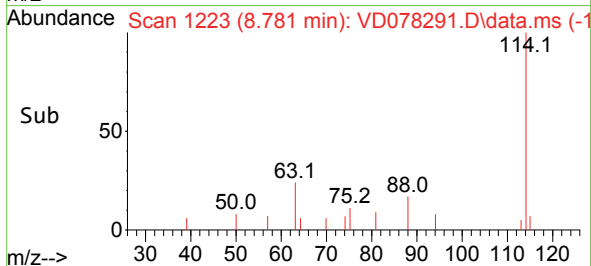
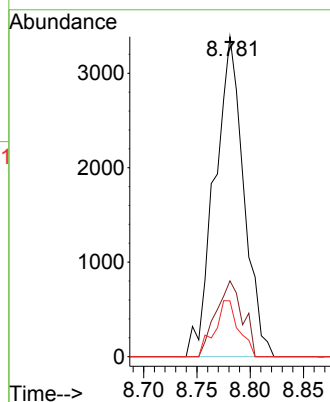
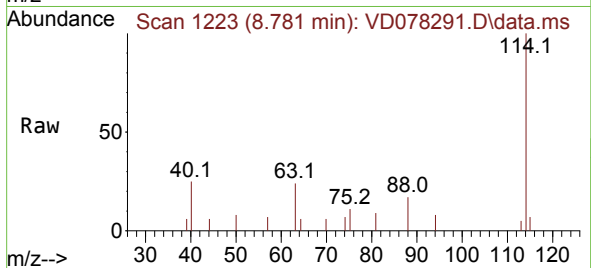
Tgt Ion:114 Resp: 6432

Ion Ratio Lower Upper

114 100

63 23.7 0.0 33.4

88 17.4 0.0 26.2



#35

Dibromofluoromethane

Concen: 162.149 ug/l

RT: 7.805 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VD078291.D

Acq: 31 Jan 2024 14:06

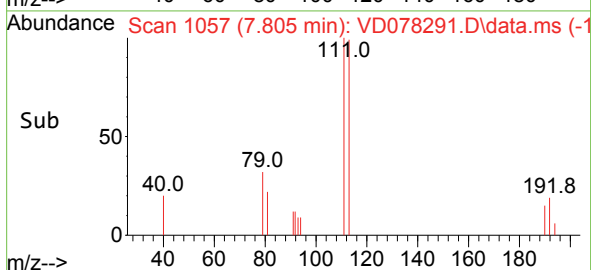
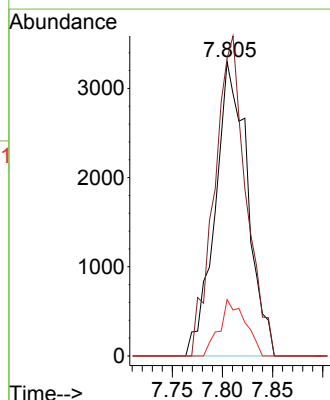
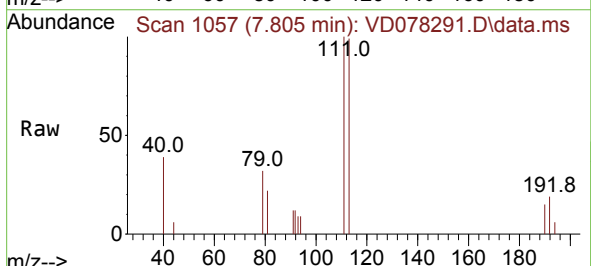
Tgt Ion:113 Resp: 7425

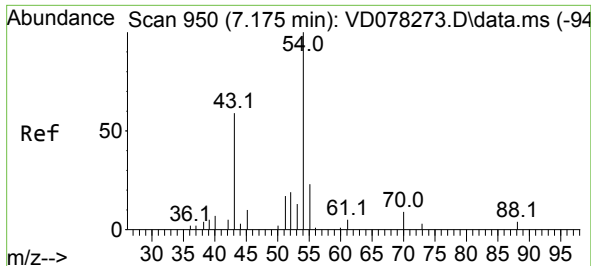
Ion Ratio Lower Upper

113 100

111 105.5 84.7 127.1

192 15.2 16.8 25.2#

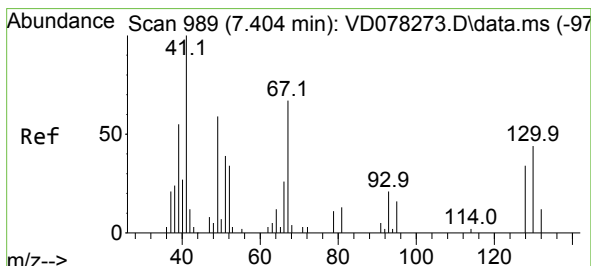
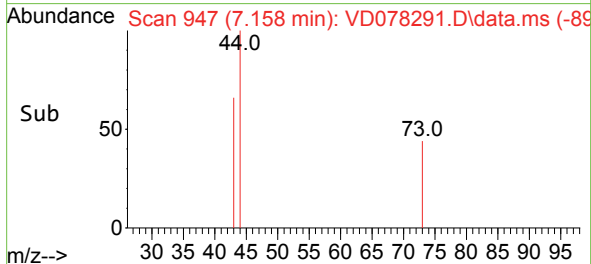
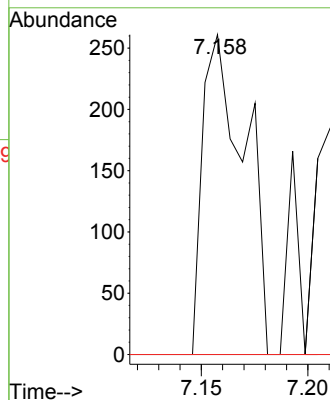
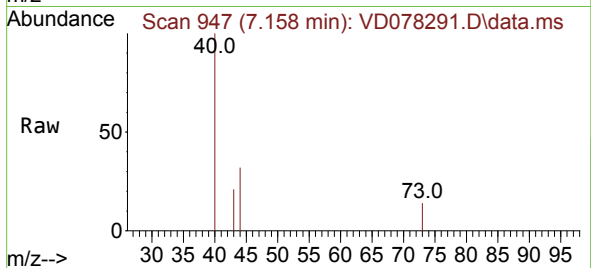




#37
Ethyl Acetate
Concen: 12.318 ug/l
RT: 7.158 min Scan# 94
Delta R.T. -0.017 min
Lab File: VD078291.D
Acq: 31 Jan 2024 14:06

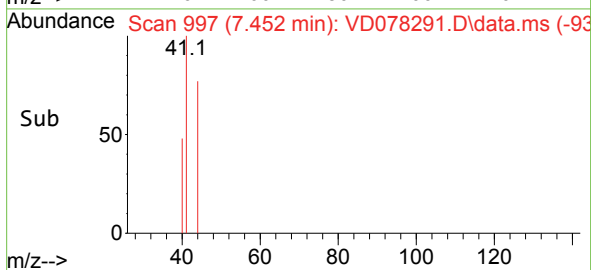
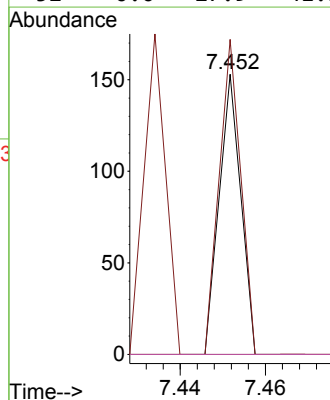
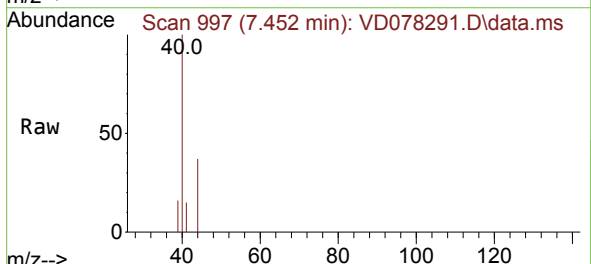
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

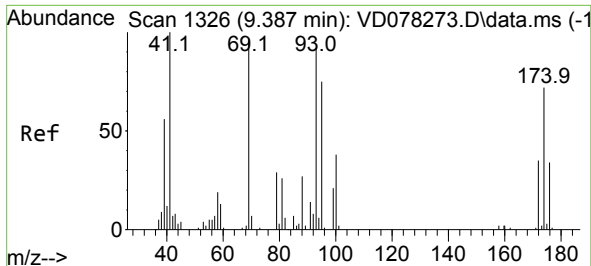
Tgt Ion: 43 Resp: 360
Ion Ratio Lower Upper
43 100
61 0.0 14.9 22.3#
70 0.0 10.0 15.0#



#41
Methacrylonitrile
Concen: 3.437 ug/l
RT: 7.452 min Scan# 997
Delta R.T. 0.047 min
Lab File: VD078291.D
Acq: 31 Jan 2024 14:06

Tgt Ion: 41 Resp: 54
Ion Ratio Lower Upper
41 100
39 113.0 34.0 51.0#
67 0.0 77.0 115.4#
52 0.0 27.9 41.9#





#48

Methyl methacrylate

Concen: 2.476 ug/l

RT: 9.193 min Scan# 11

Delta R.T. -0.194 min

Lab File: VD078291.D

Acq: 31 Jan 2024 14:06

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

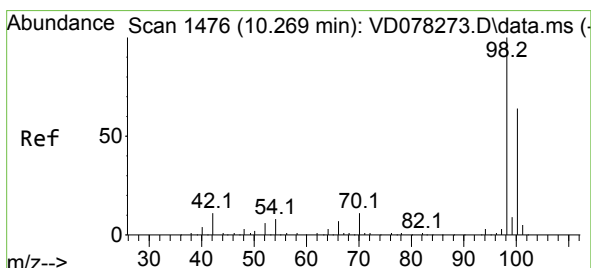
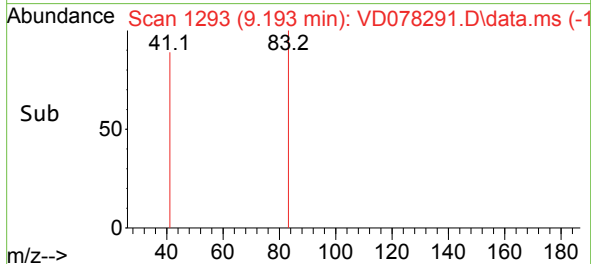
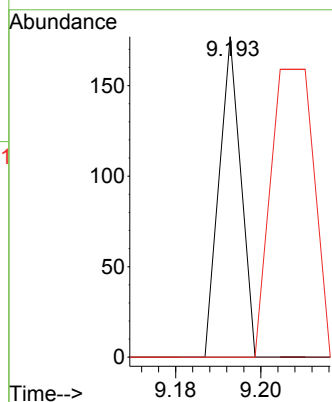
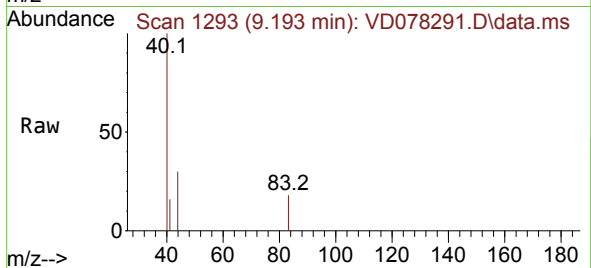
Tgt Ion: 41 Resp: 62

Ion Ratio Lower Upper

41 100

69 0.0 102.2 153.2#

39 180.6 41.4 62.2#



#50

Toluene-d8

Concen: 55.749 ug/l

RT: 10.275 min Scan# 1477

Delta R.T. 0.006 min

Lab File: VD078291.D

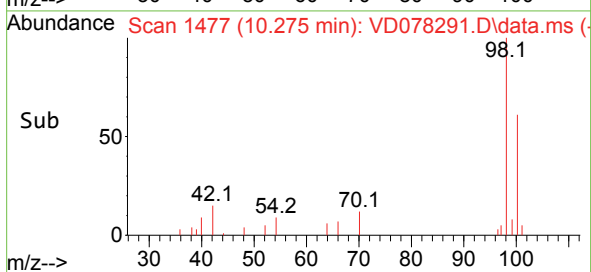
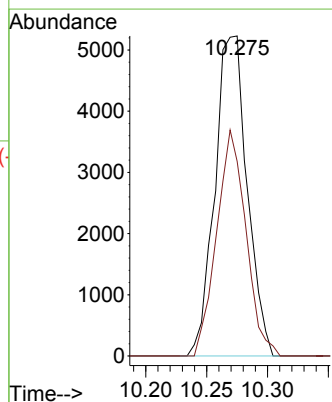
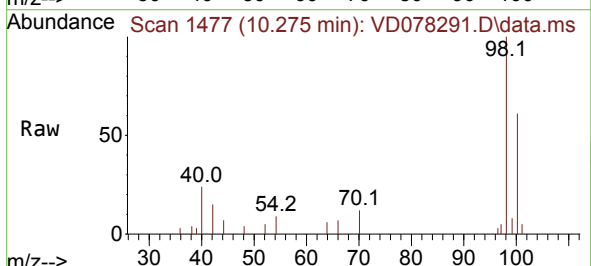
Acq: 31 Jan 2024 14:06

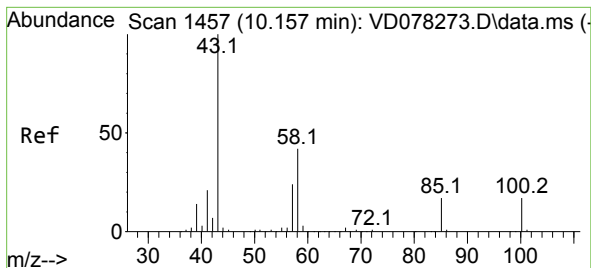
Tgt Ion: 98 Resp: 9665

Ion Ratio Lower Upper

98 100

100 64.0 50.3 75.5

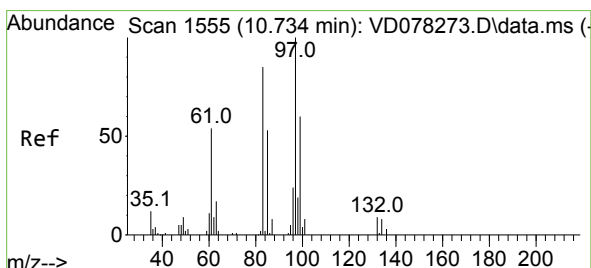
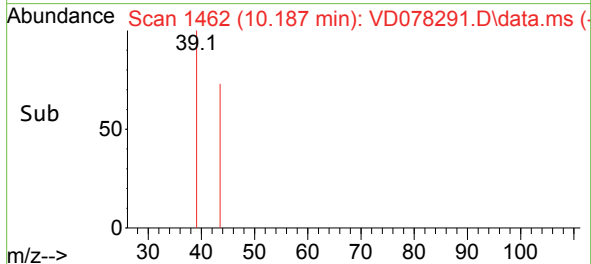
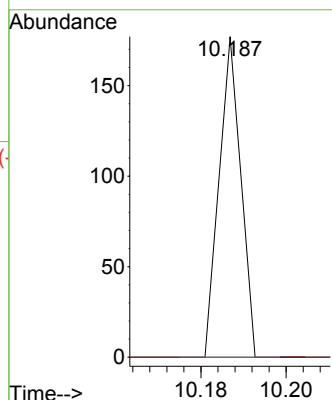
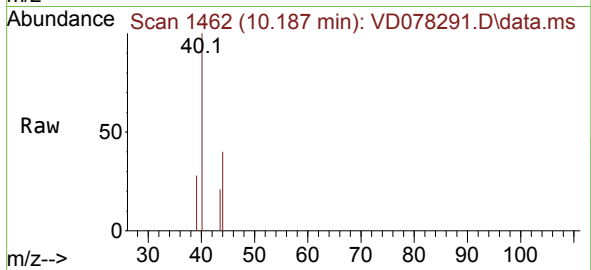




#51
4-Methyl-2-Pentanone
Concen: 2.187 ug/l
RT: 10.187 min Scan# 1457
Delta R.T. 0.030 min
Lab File: VD078291.D
Acq: 31 Jan 2024 14:06

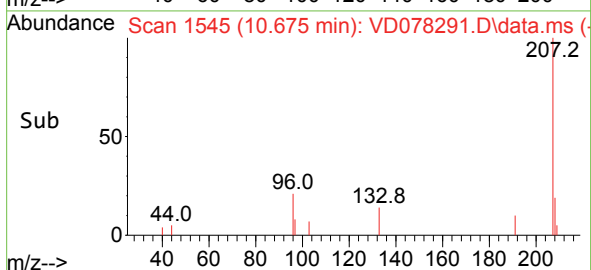
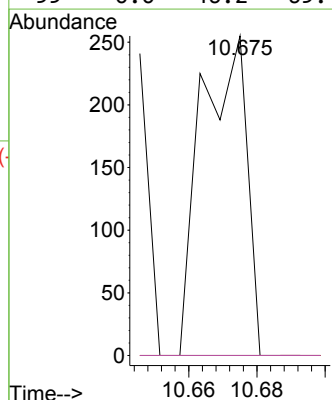
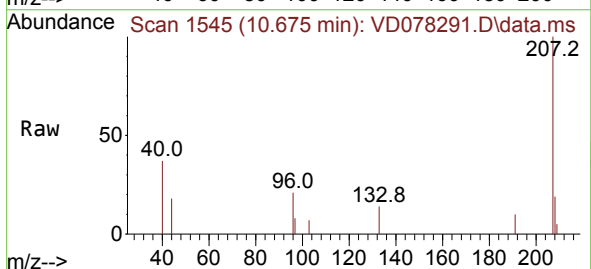
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

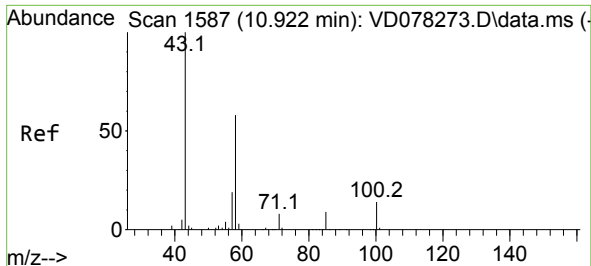
Tgt Ion: 43 Resp: 62
Ion Ratio Lower Upper
43 100
58 0.0 38.9 58.3#



#55
1,1,2-Trichloroethane
Concen: 6.017 ug/l
RT: 10.675 min Scan# 1545
Delta R.T. -0.059 min
Lab File: VD078291.D
Acq: 31 Jan 2024 14:06

Tgt Ion: 97 Resp: 236
Ion Ratio Lower Upper
97 100
83 0.0 65.8 98.6#
85 0.0 45.7 68.5#
99 0.0 46.2 69.4#

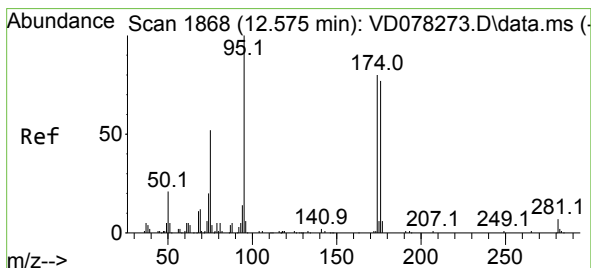
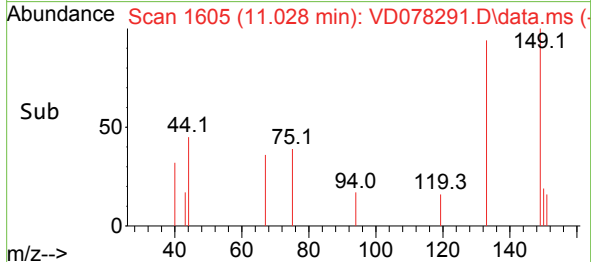
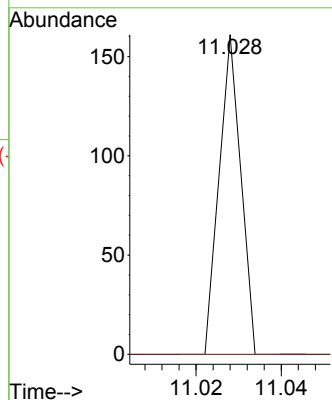
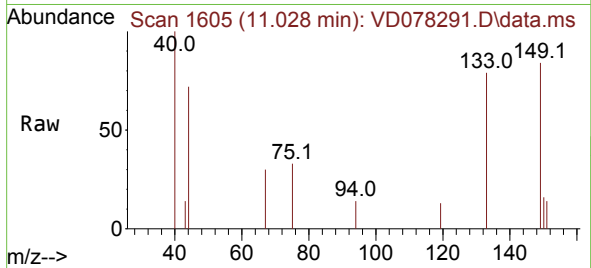




#59
2-Hexanone
Concen: 2.670 ug/l
RT: 11.028 min Scan# 1
Delta R.T. 0.106 min
Lab File: VD078291.D
Acq: 31 Jan 2024 14:06

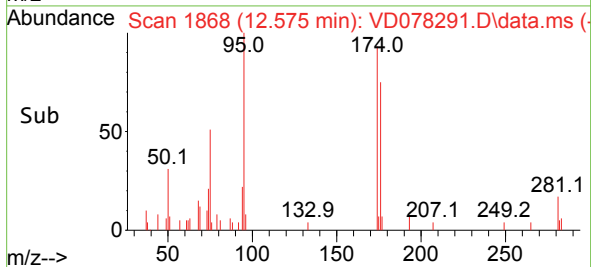
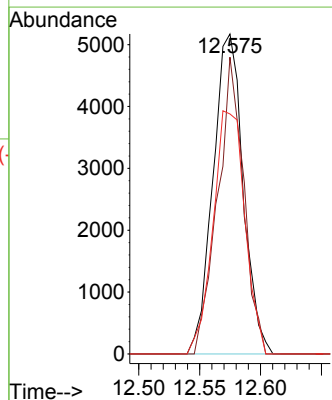
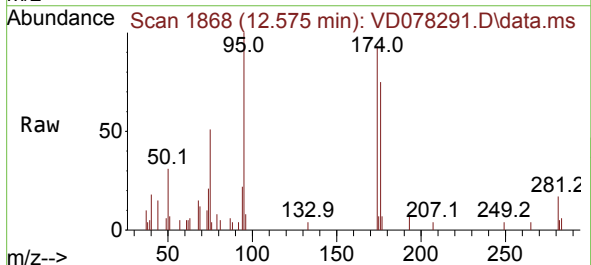
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

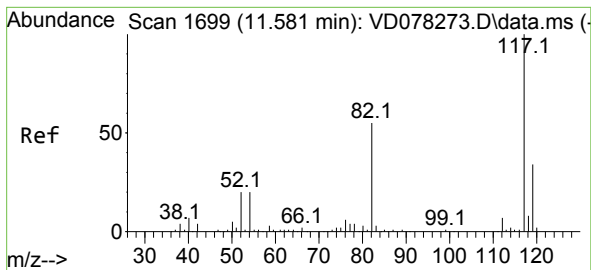
Tgt Ion: 43 Resp: 57
Ion Ratio Lower Upper
43 100
58 0.0 34.1 102.2#



#62
4-Bromofluorobenzene
Concen: 170.825 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.000 min
Lab File: VD078291.D
Acq: 31 Jan 2024 14:06

Tgt Ion: 95 Resp: 8869
Ion Ratio Lower Upper
95 100
174 80.4 0.0 201.8
176 80.2 0.0 191.8

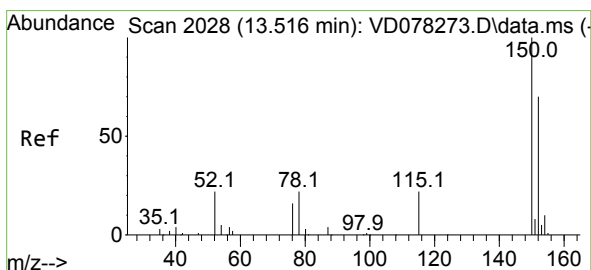
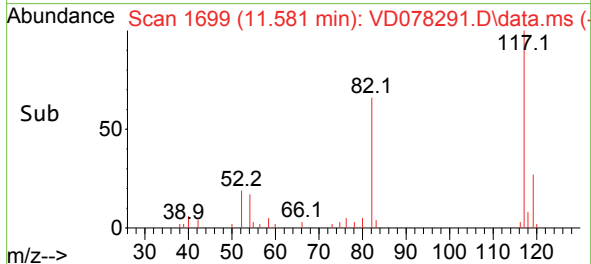
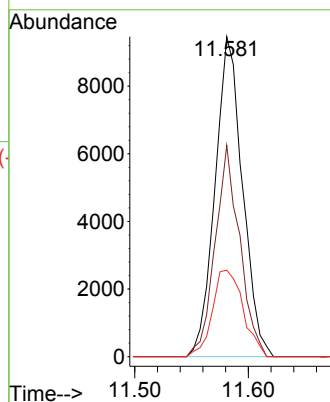
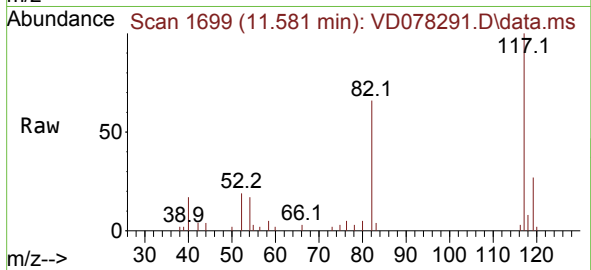




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD078291.D
Acq: 31 Jan 2024 14:06

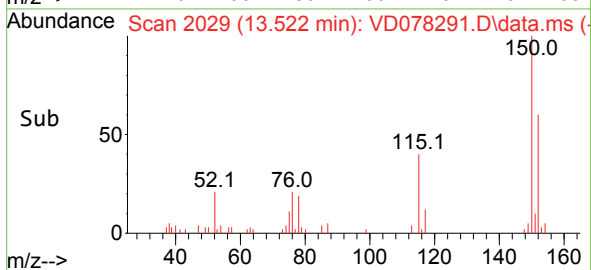
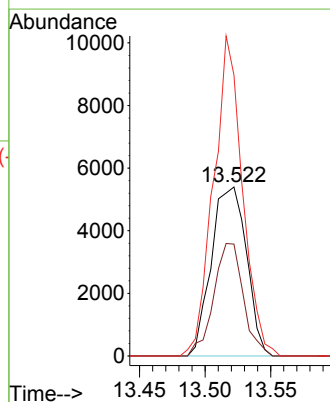
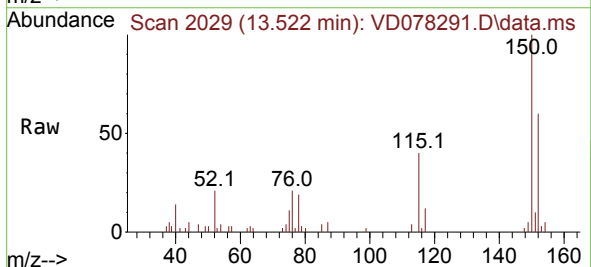
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

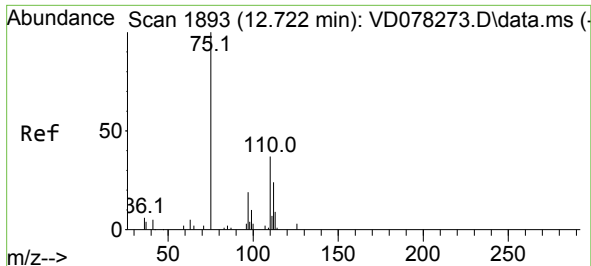
Tgt Ion:117 Resp: 15880
Ion Ratio Lower Upper
117 100
82 66.0 38.3 57.5#
119 27.0 25.0 37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.522 min Scan# 2029
Delta R.T. 0.006 min
Lab File: VD078291.D
Acq: 31 Jan 2024 14:06

Tgt Ion:152 Resp: 10060
Ion Ratio Lower Upper
152 100
115 56.1 27.1 81.3
150 155.8 0.0 353.6

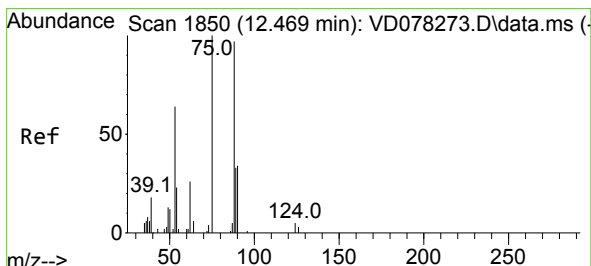
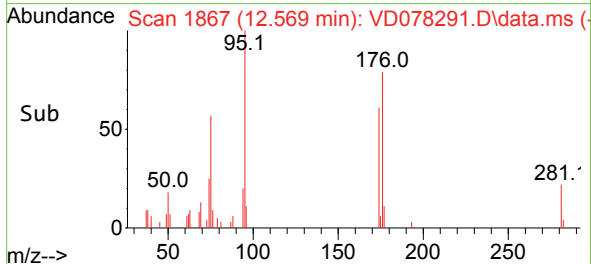
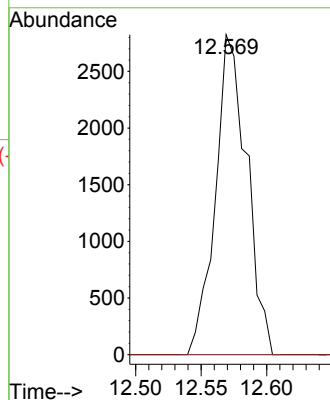
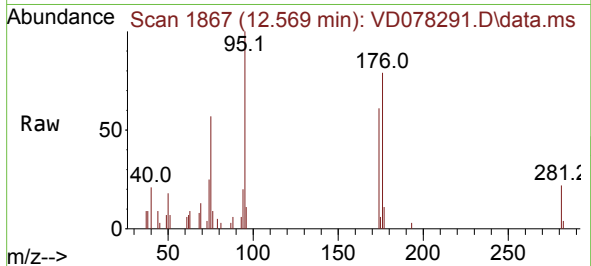




#76
1,2,3-Trichloropropane
Concen: 44.624 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.153 min
Lab File: VD078291.D
Acq: 31 Jan 2024 14:06

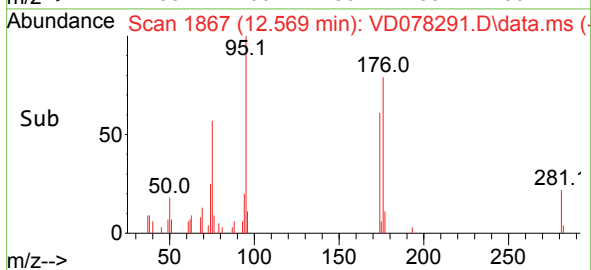
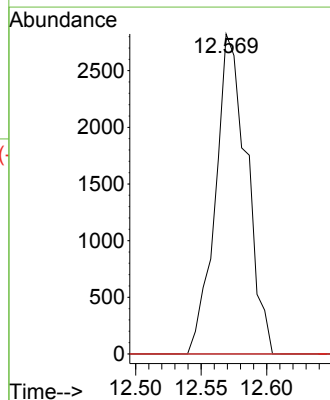
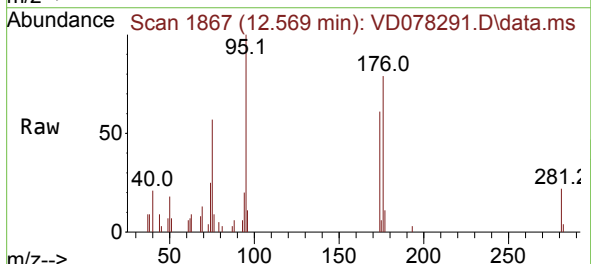
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

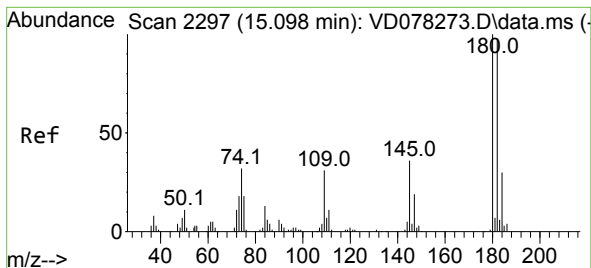
Tgt Ion: 75 Resp: 4692
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 88.748 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.100 min
Lab File: VD078291.D
Acq: 31 Jan 2024 14:06

Tgt Ion: 75 Resp: 4692
Ion Ratio Lower Upper
75 100
53 0.0 63.0 94.4#
89 0.0 37.9 56.9#





#93

1,2,4-Trichlorobenzene

Concen: 1.807 ug/l

RT: 15.092 min Scan# 2296

Delta R.T. -0.006 min

Lab File: VD078291.D

Acq: 31 Jan 2024 14:06

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

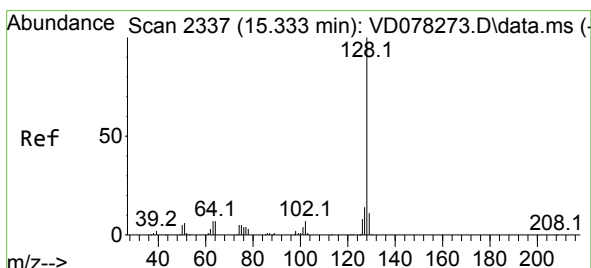
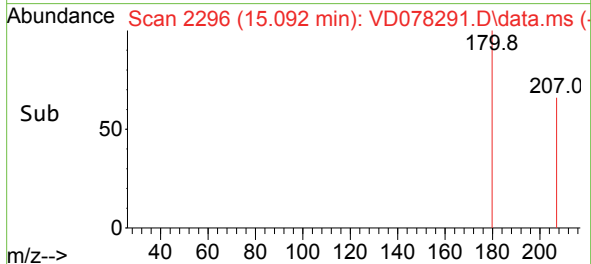
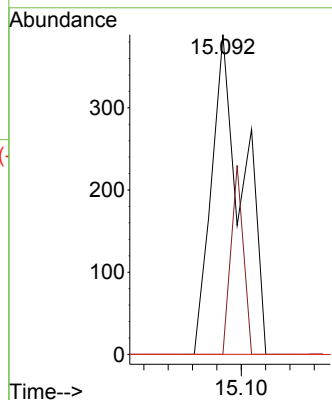
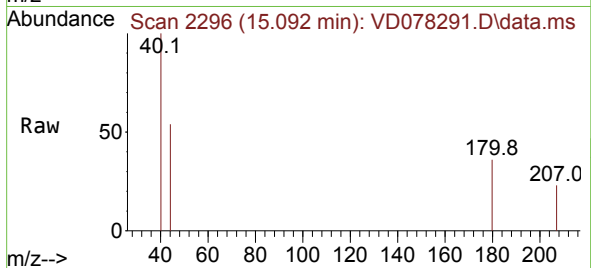
Tgt Ion:180 Resp: 348

Ion Ratio Lower Upper

180 100

182 23.3 48.5 145.6#

145 0.0 14.2 42.6#



#95

Naphthalene

Concen: 1.940 ug/l

RT: 15.328 min Scan# 2336

Delta R.T. -0.006 min

Lab File: VD078291.D

Acq: 31 Jan 2024 14:06

Tgt Ion:128 Resp: 745

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#

