

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103023\
 Data File : VN079732.D
 Acq On : 30 Oct 2023 19:06
 Operator : JC\MD
 Sample : 05138-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 31 07:33:58 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103023W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 31 07:23:24 2023
 Response via : Initial Calibration

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

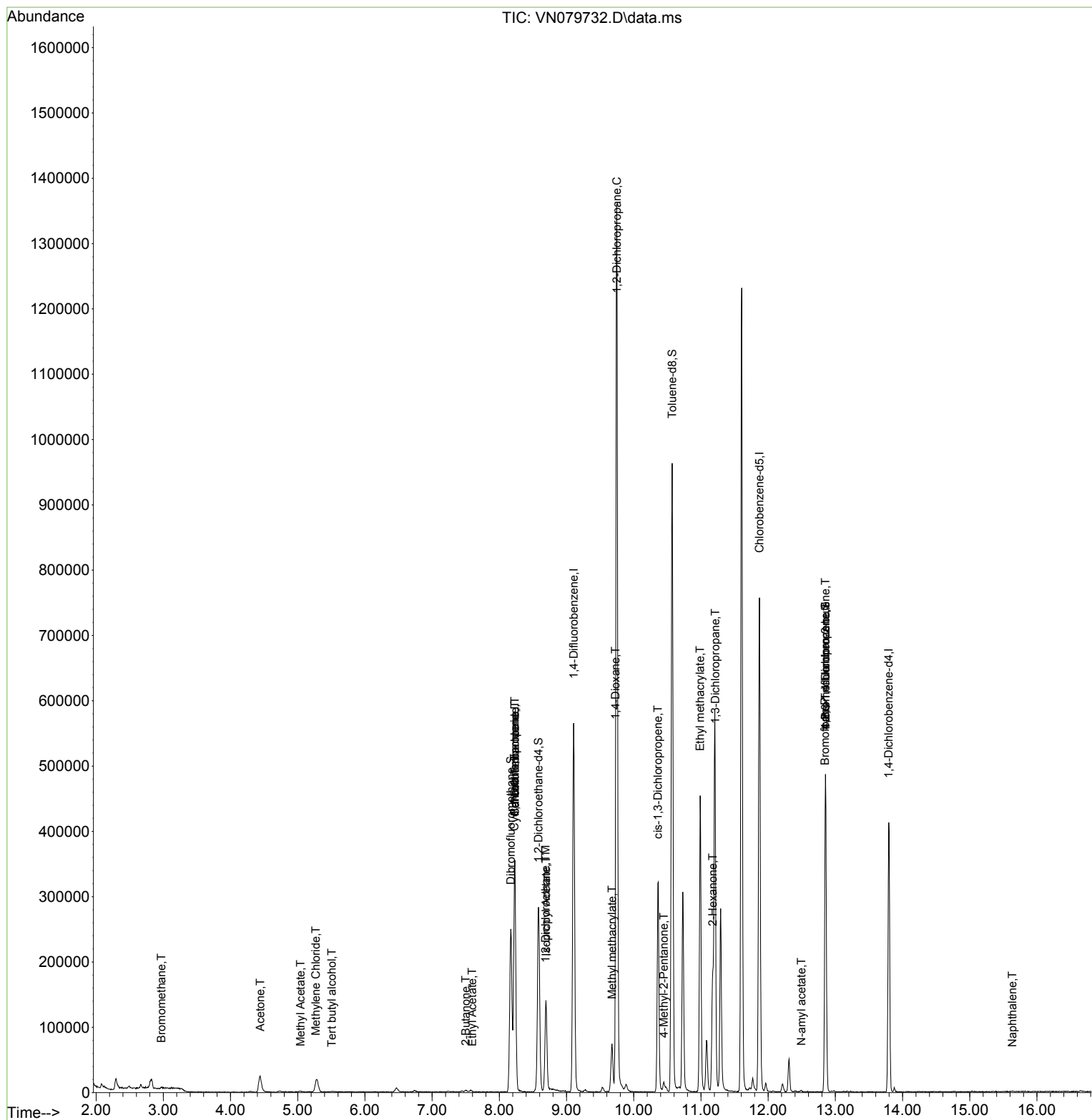
Internal Standards						
1) Pentafluorobenzene	8.230	168	243427	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	467718	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	423359	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	108627	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	234451	59.975	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 119.940%			
35) Dibromofluoromethane	8.171	113	180494	54.006	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.020%			
50) Toluene-d8	10.571	98	647394	51.963	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.920%			
62) 4-Bromofluorobenzene	12.853	95	164830	42.012	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 84.020%			
Target Compounds					Qvalue	
5) Bromomethane	2.971	94	734	0.267	ug/l #	53
11) Tert butyl alcohol	5.506	59	610	1.176	ug/l #	72
16) Acetone	4.442	43	47840	28.604	ug/l #	88
18) Methyl Acetate	5.042	43	2641	0.391	ug/l #	62
20) Methylene Chloride	5.271	84	15483	4.675	ug/l #	89
25) 2-Butanone	7.500	43	4637	2.018	ug/l #	83
31) Cyclohexane	8.224	56	6722	1.260	ug/l #	58
36) 1,1-Dichloropropene	8.230	75	22584	4.555	ug/l #	48
37) Ethyl Acetate	7.594	43	4225	0.860	ug/l #	67
38) Carbon Tetrachloride	8.230	117	27059	5.473	ug/l #	17
42) 1,2-Dichloroethane	8.688	62	1583	0.298	ug/l #	73
43) Isopropyl Acetate	8.694	43	158142	20.129	ug/l #	81
45) 1,2-Dichloropropane	9.747	63	1689	0.435	ug/l #	45
48) Methyl methacrylate	9.677	41	5079	1.394	ug/l #	35
49) 1,4-Dioxane	9.730	88	61	0.952	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	15208	3.111	ug/l #	68
54) cis-1,3-Dichloropropene	10.359	75	55337	9.525	ug/l #	71
56) Ethyl methacrylate	10.988	69	2637	0.529	ug/l #	1
57) 1,3-Dichloropropane	11.212	76	5943	0.961	ug/l #	42
59) 2-Hexanone	11.177	43	146967	40.888	ug/l #	19
71) Bromoform	12.847	173	836	0.335	ug/l #	1
74) N-amyl acetate	12.494	43	1376	0.352	ug/l #	46
76) 1,2,3-Trichloropropane	12.853	75	90166	30.568	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	90166	92.208	ug/l #	15
95) Naphthalene	15.635	128	1166	0.354	ug/l #	70

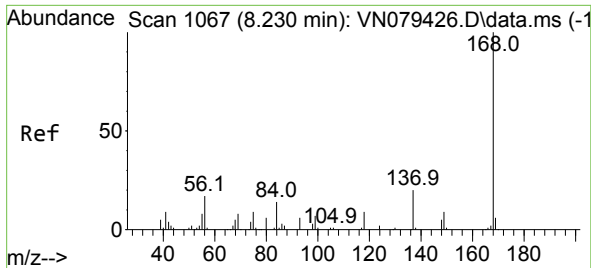
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103023W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 31 07:23:24 2023
Response via : Initial Calibration

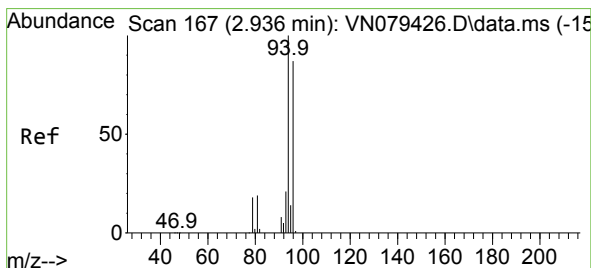
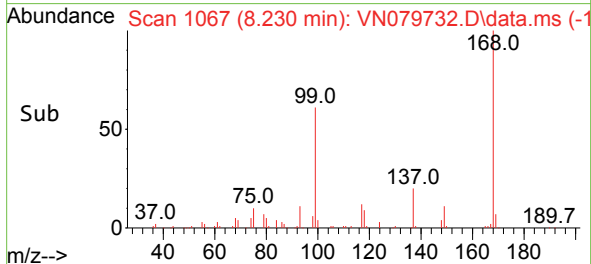
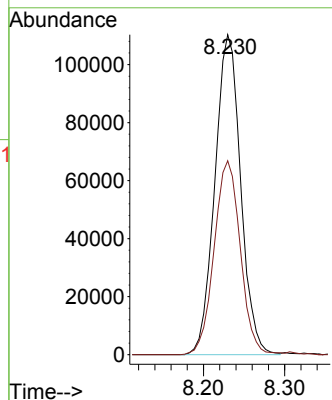
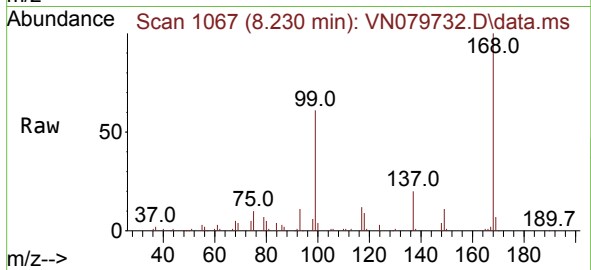




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

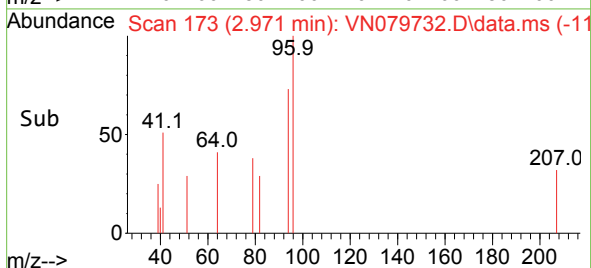
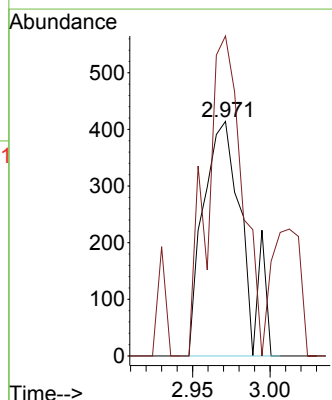
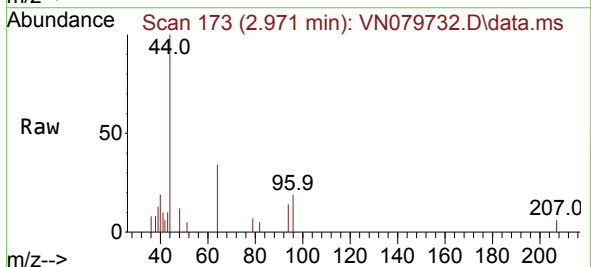
Instrument :
MSVOA_N
ClientSampleId :

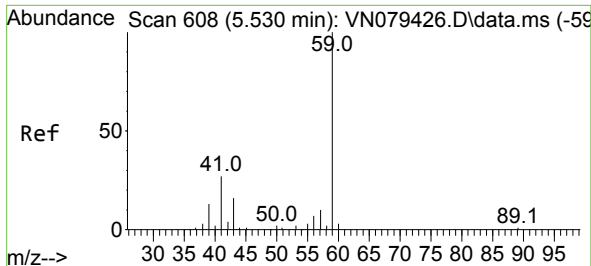
Tgt Ion:168 Resp: 243427
Ion Ratio Lower Upper
168 100
99 60.6 53.0 79.6



#5
Bromomethane
Concen: 0.267 ug/l
RT: 2.971 min Scan# 173
Delta R.T. 0.035 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

Tgt Ion: 94 Resp: 734
Ion Ratio Lower Upper
94 100
96 136.5 73.1 109.7#

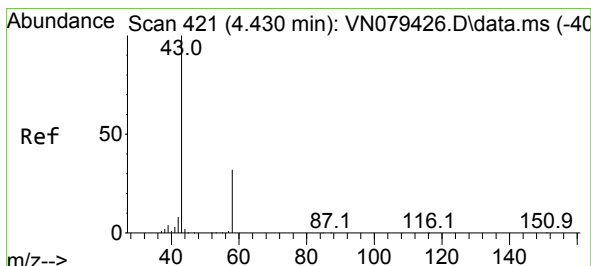
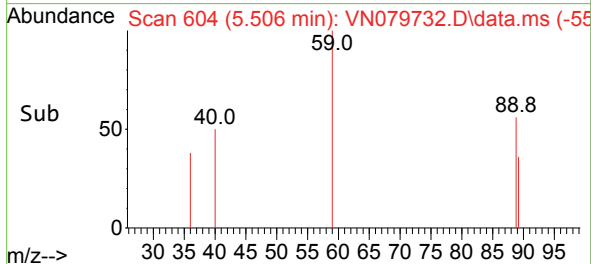
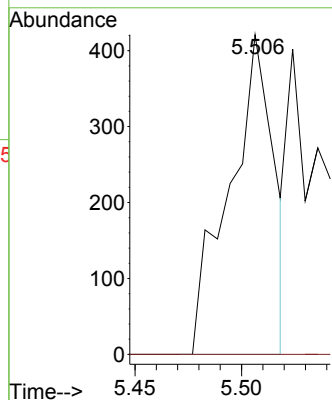
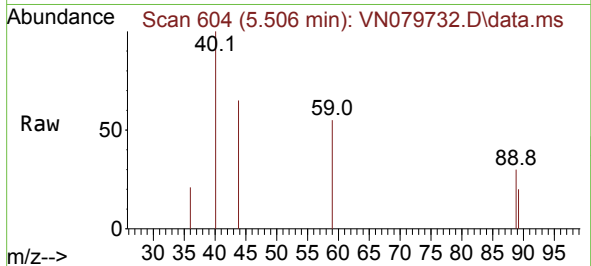




#11
Tert butyl alcohol
Concen: 1.176 ug/l
RT: 5.506 min Scan# 608
Delta R.T. -0.024 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

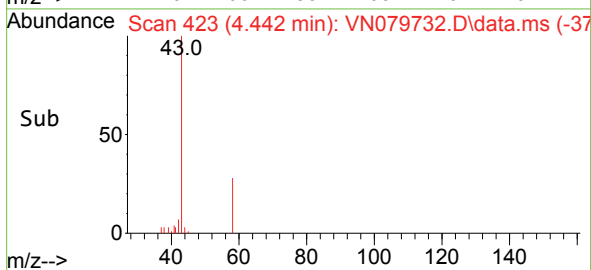
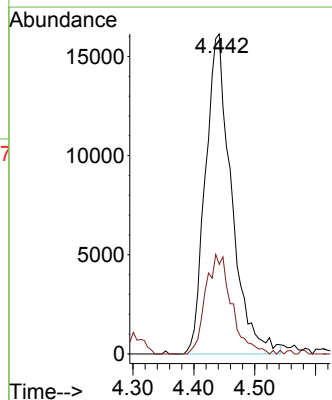
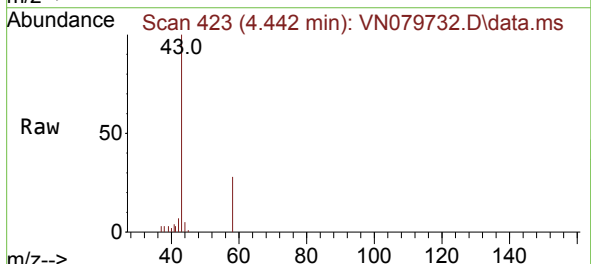
Instrument :
MSVOA_N
ClientSampleId :

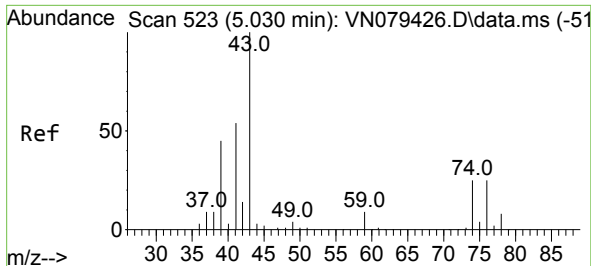
Tgt Ion: 59 Resp: 610
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 28.604 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.012 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

Tgt Ion: 43 Resp: 47840
Ion Ratio Lower Upper
43 100
58 28.0 28.0 42.0#

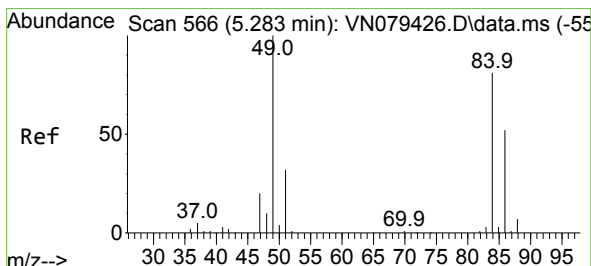
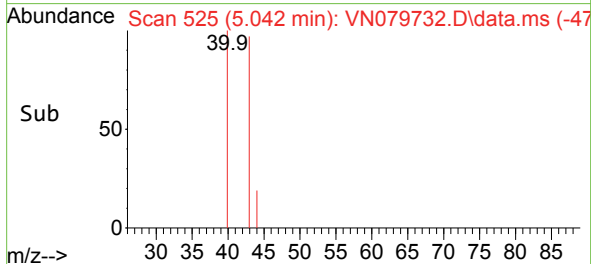
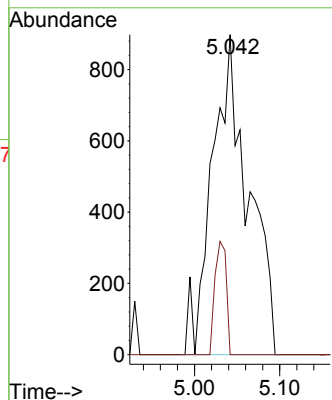
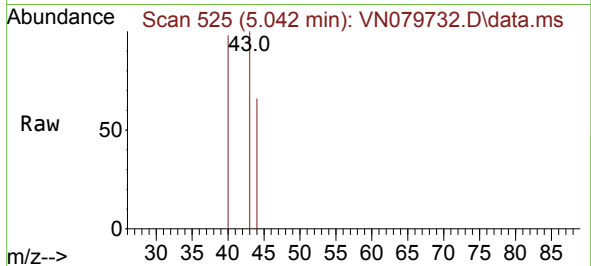




#18
Methyl Acetate
Concen: 0.391 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

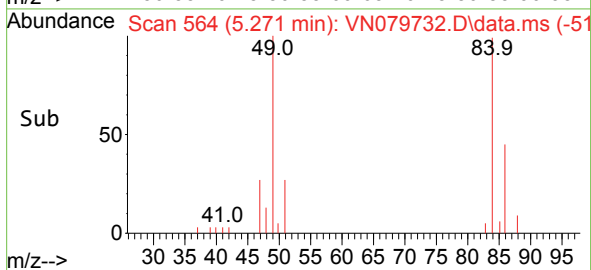
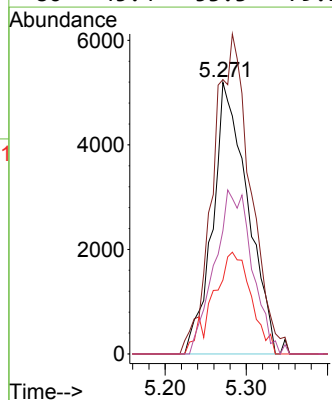
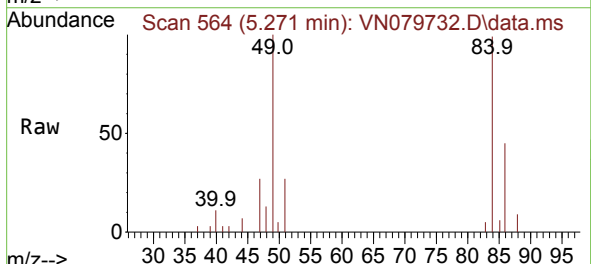
Instrument :
MSVOA_N
ClientSampleId :

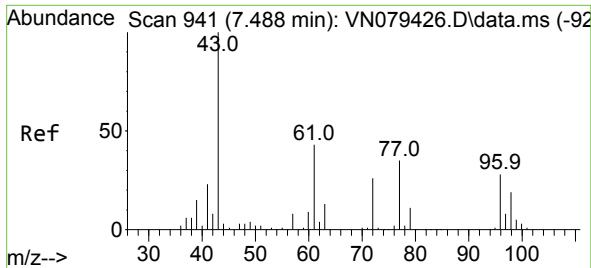
Tgt Ion: 43 Resp: 2641
Ion Ratio Lower Upper
43 100
74 11.1 26.2 39.4#



#20
Methylene Chloride
Concen: 4.675 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.012 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

Tgt Ion: 84 Resp: 15483
Ion Ratio Lower Upper
84 100
49 101.0 79.7 119.5
51 27.2 25.2 37.8
86 45.4 53.3 79.9#

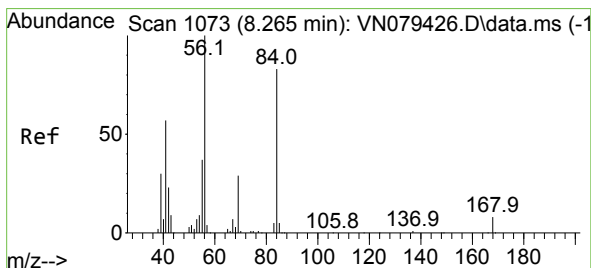
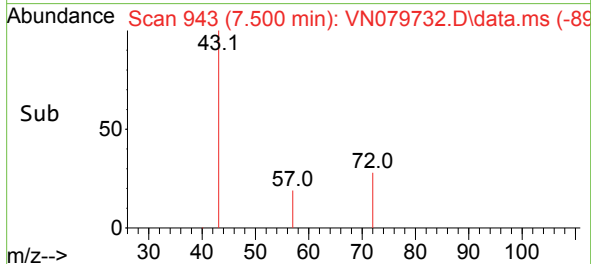
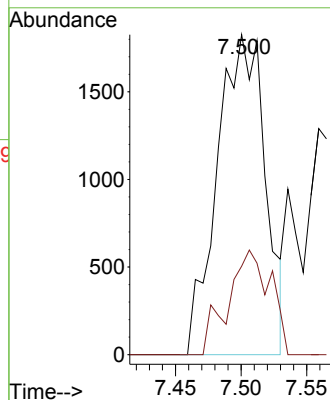
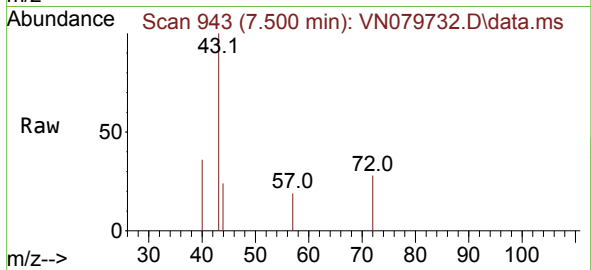




#25
2-Butanone
Concen: 2.018 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

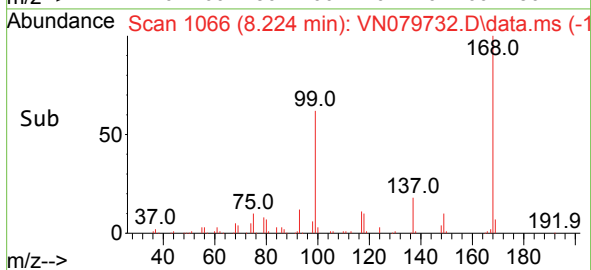
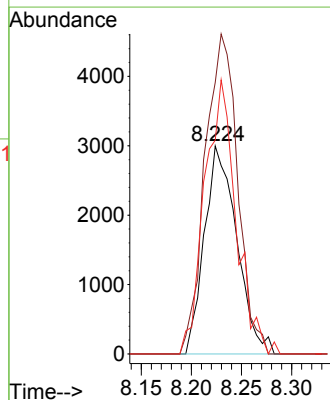
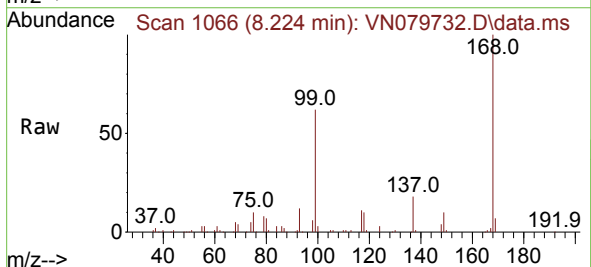
Instrument :
MSVOA_N
ClientSampleId :

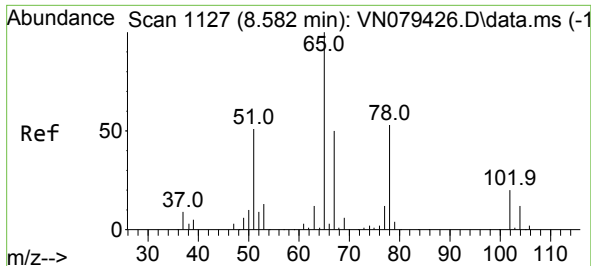
Tgt Ion: 43 Resp: 4637
Ion Ratio Lower Upper
43 100
72 27.7 30.2 45.2#



#31
Cyclohexane
Concen: 1.260 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

Tgt Ion: 56 Resp: 6722
Ion Ratio Lower Upper
56 100
69 130.5 26.8 40.2#
84 102.8 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 59.975 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.001 min

Lab File: VN079732.D

Acq: 30 Oct 2023 19:06

Instrument :

MSVOA_N

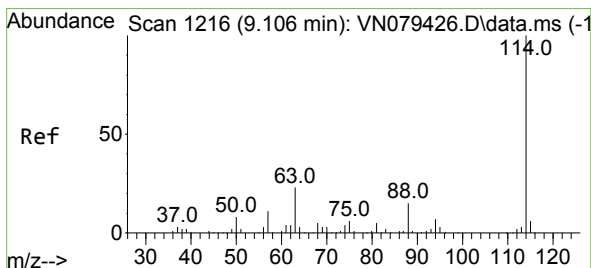
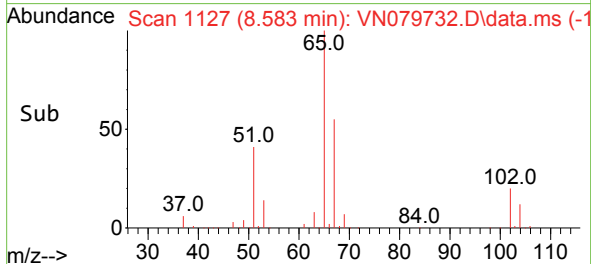
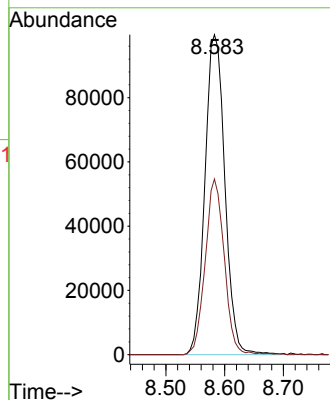
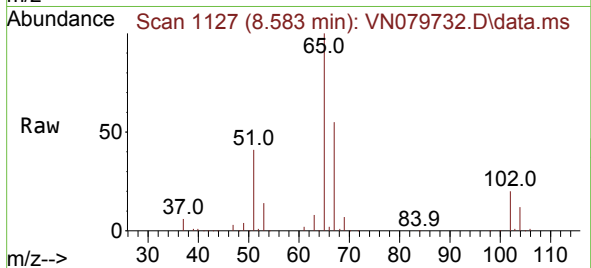
ClientSampleId :

Tgt Ion: 65 Resp: 234451

Ion Ratio Lower Upper

65 100

67 52.5 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN079732.D

Acq: 30 Oct 2023 19:06

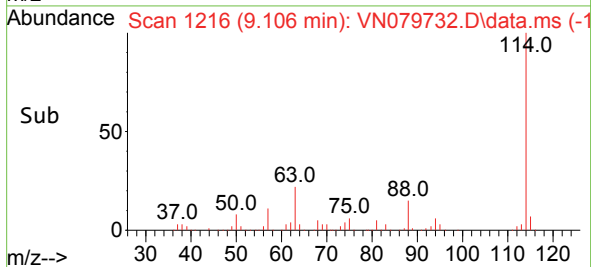
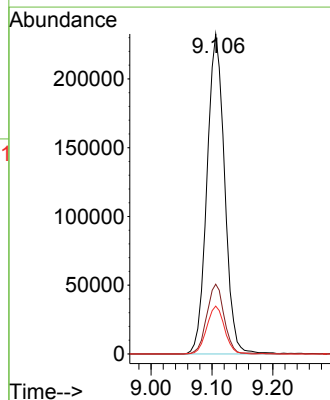
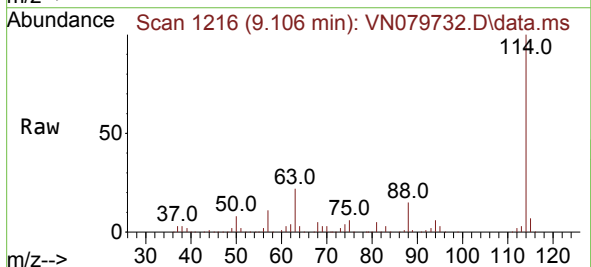
Tgt Ion: 114 Resp: 467718

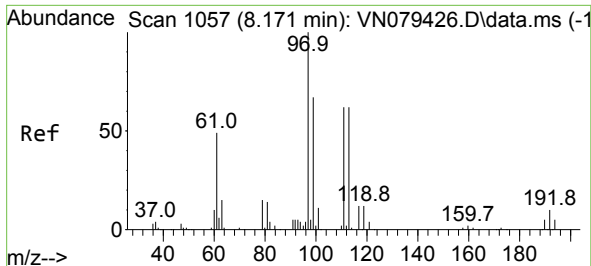
Ion Ratio Lower Upper

114 100

63 21.8 0.0 36.4

88 14.9 0.0 30.6





#35

Dibromofluoromethane

Concen: 54.006 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

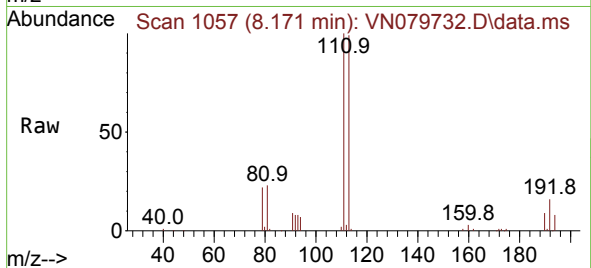
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Acq: 30 Oct 2023 19:06

Instrument :

MSVOA_N

ClientSampleId :



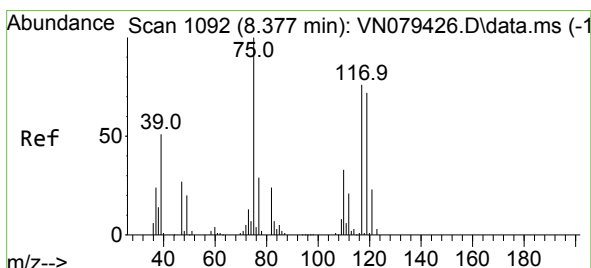
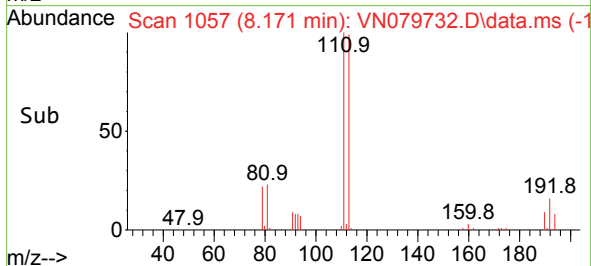
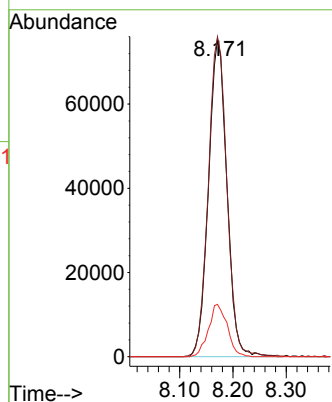
Tgt Ion:113 Resp: 180494

Ion Ratio Lower Upper

113 100

111 102.3 82.6 123.8

192 17.0 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.555 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079732.D

Acq: 30 Oct 2023 19:06

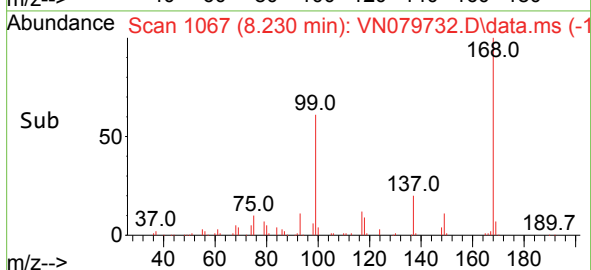
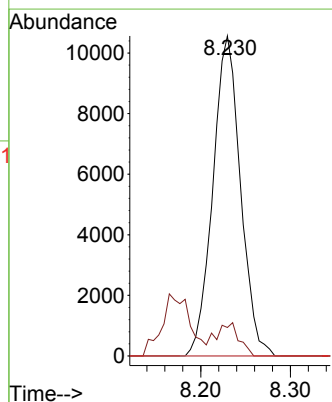
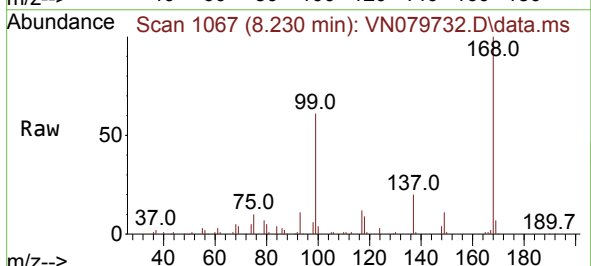
Tgt Ion: 75 Resp: 22584

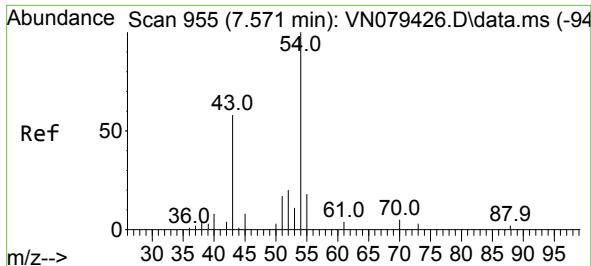
Ion Ratio Lower Upper

75 100

110 8.6 19.1 57.3#

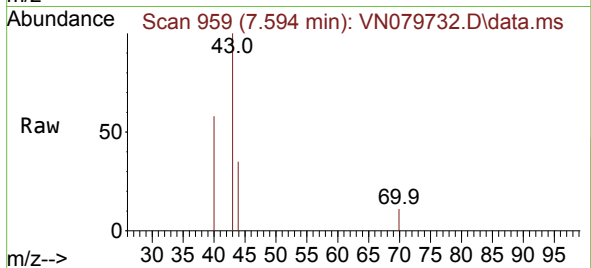
77 0.0 25.0 37.4#



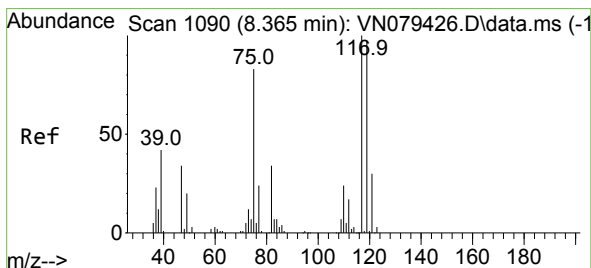
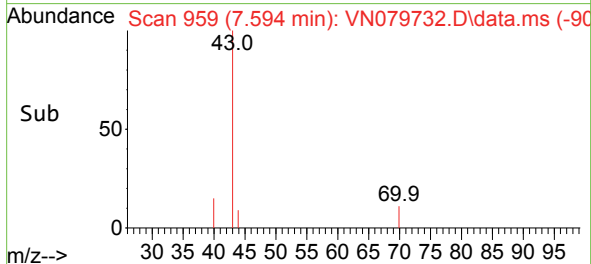
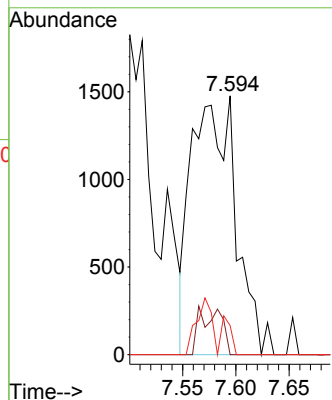


#37
Ethyl Acetate
Concen: 0.860 ug/l
RT: 7.594 min Scan# 91
Delta R.T. 0.023 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

Instrument :
MSVOA_N
ClientSampleId :

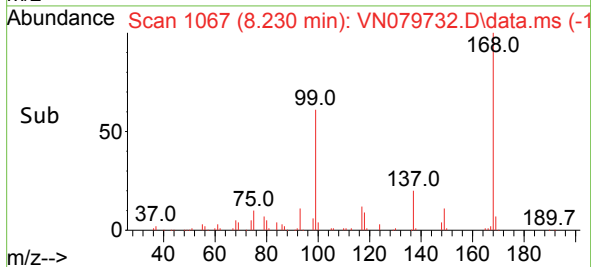
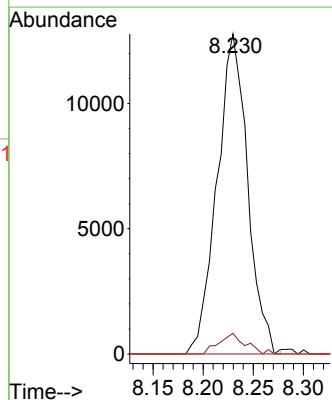
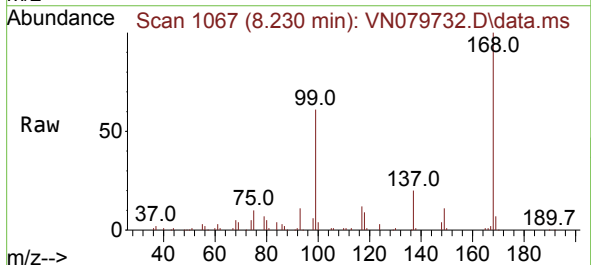


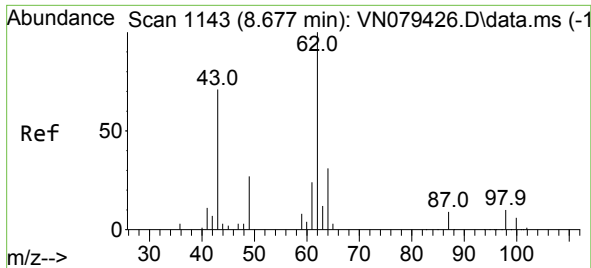
Tgt Ion: 43 Resp: 4225
Ion Ratio Lower Upper
43 100
61 0.0 13.2 19.8#
70 3.2 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 5.473 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.135 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

Tgt Ion: 117 Resp: 27059
Ion Ratio Lower Upper
117 100
119 6.5 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.298 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.011 min

Lab File: VN079732.D

Acq: 30 Oct 2023 19:06

Instrument :

MSVOA_N

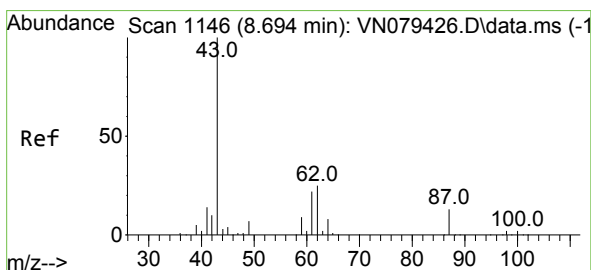
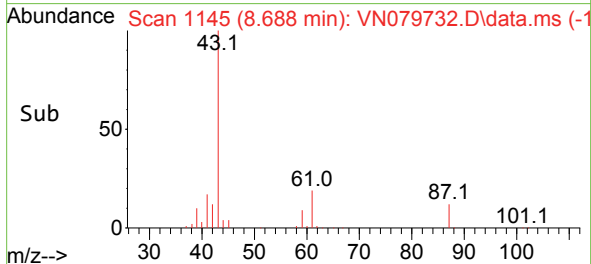
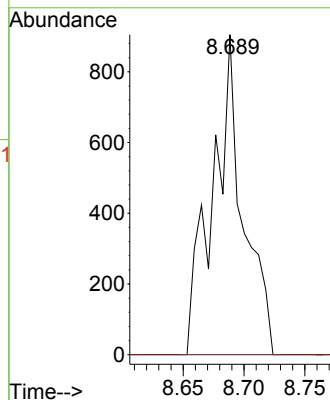
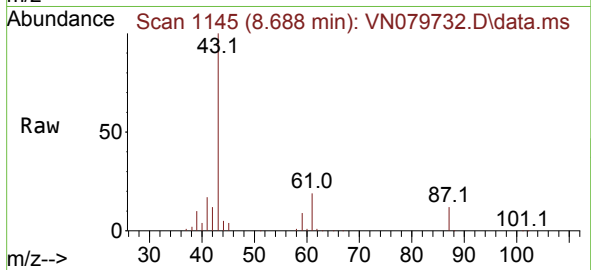
ClientSampleId :

Tgt Ion: 62 Resp: 1583

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 20.129 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN079732.D

Acq: 30 Oct 2023 19:06

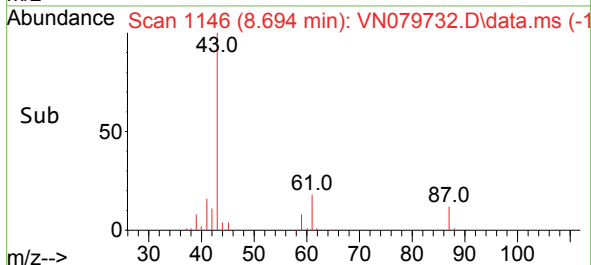
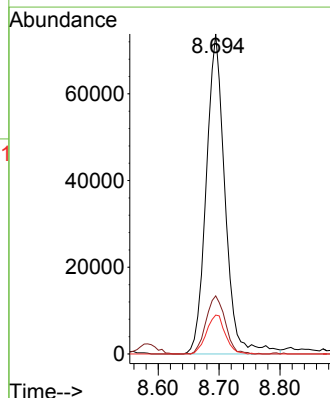
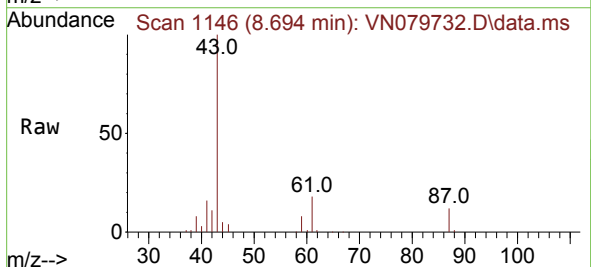
Tgt Ion: 43 Resp: 158142

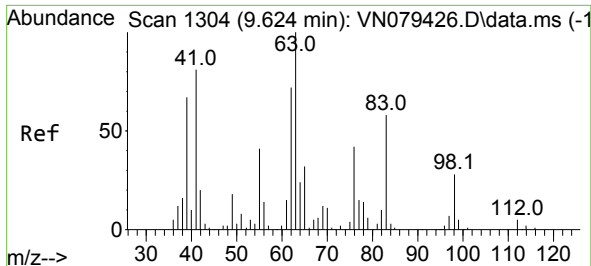
Ion Ratio Lower Upper

43 100

61 18.5 24.7 37.1#

87 12.1 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.435 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN079732.D

Acq: 30 Oct 2023 19:06

Instrument :

MSVOA_N

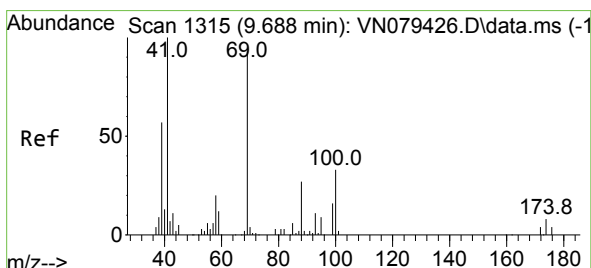
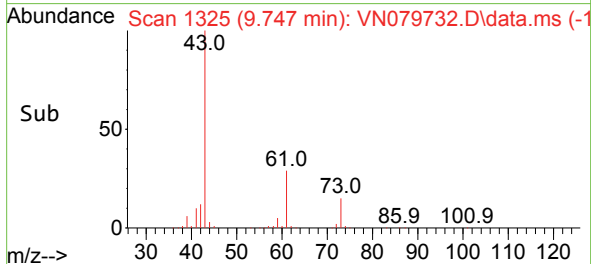
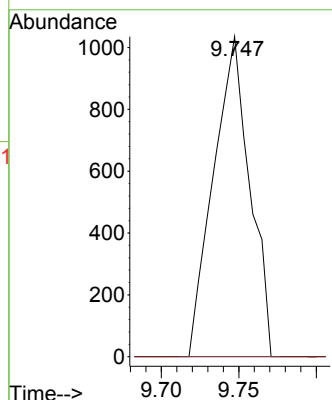
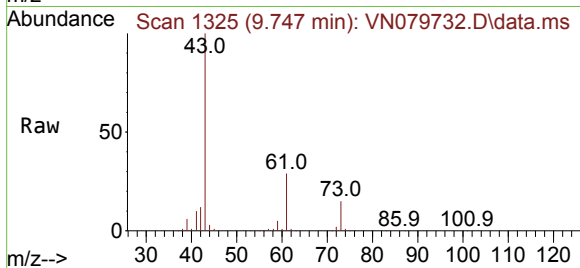
ClientSampleId :

Tgt Ion: 63 Resp: 1689

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 1.394 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.011 min

Lab File: VN079732.D

Acq: 30 Oct 2023 19:06

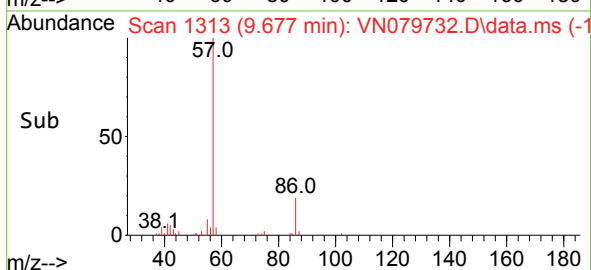
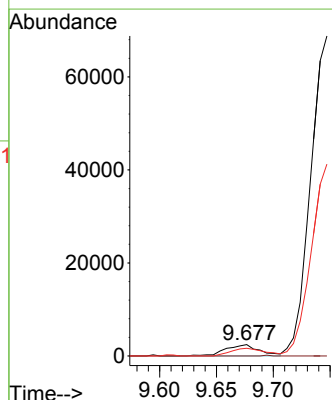
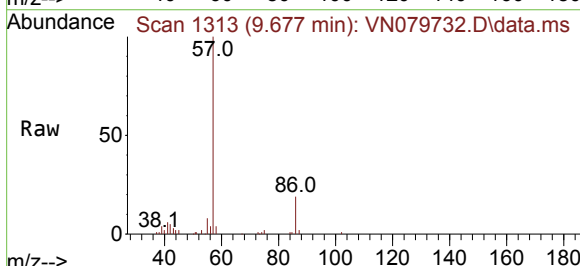
Tgt Ion: 41 Resp: 5079

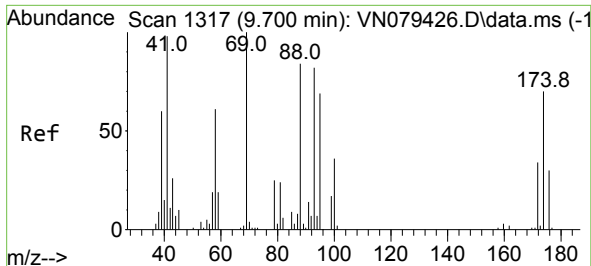
Ion Ratio Lower Upper

41 100

69 1.3 90.4 135.6#

39 68.3 54.6 81.8





#49

1,4-Dioxane

Concen: 0.952 ug/l

RT: 9.730 min Scan# 1

Delta R.T. 0.030 min

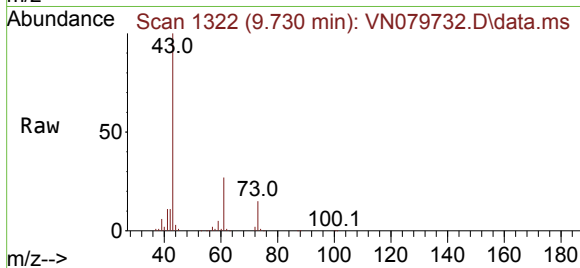
Lab File: VN079732.D

Acq: 30 Oct 2023 19:06

Instrument :

MSVOA_N

ClientSampleId :



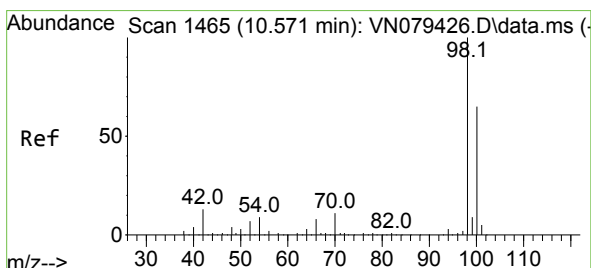
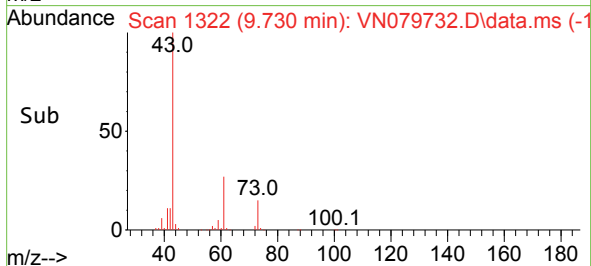
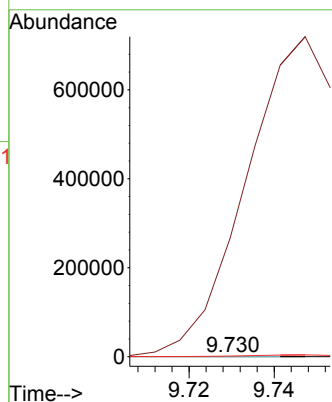
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 2131082.0 17.0 25.6#

58 11324.6 47.0 70.4#



#50

Toluene-d8

Concen: 51.963 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN079732.D

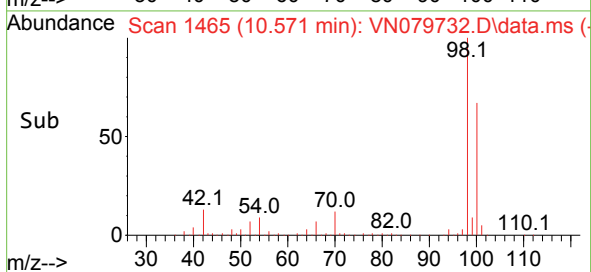
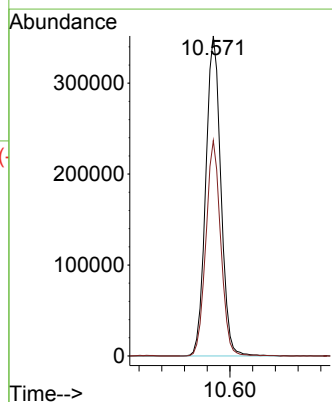
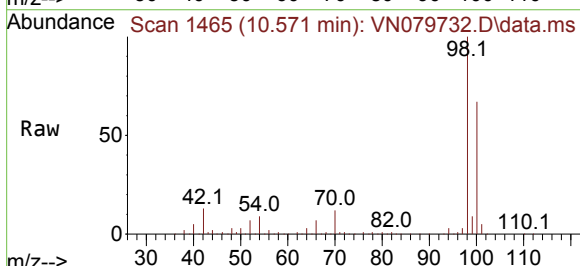
Acq: 30 Oct 2023 19:06

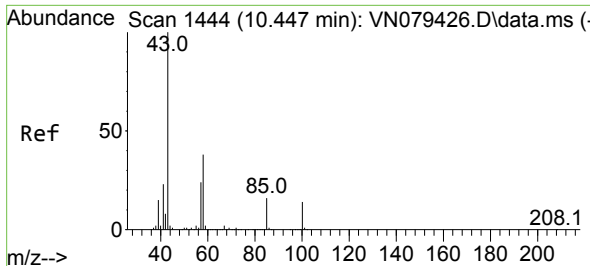
Tgt Ion: 98 Resp: 647394

Ion Ratio Lower Upper

98 100

100 66.1 52.0 78.0

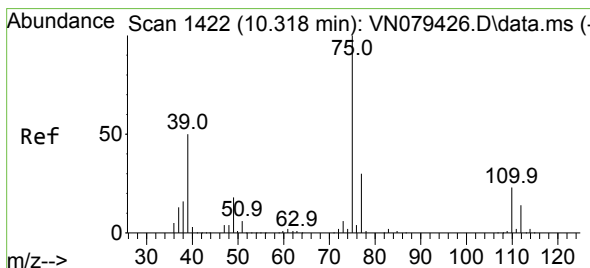
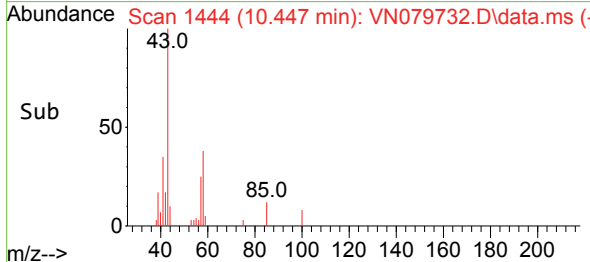
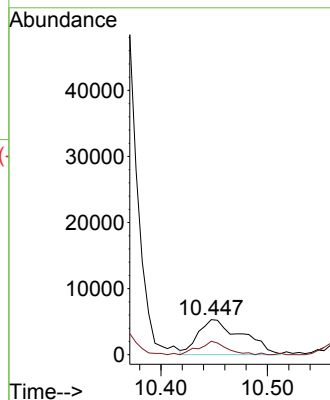
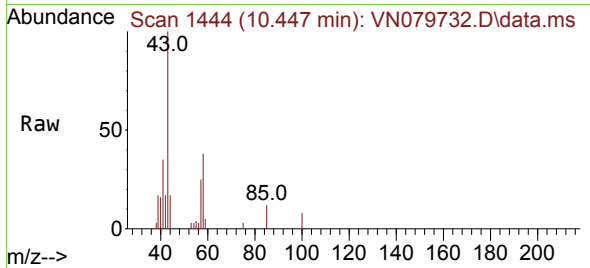




#51
4-Methyl-2-Pentanone
Concen: 3.111 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

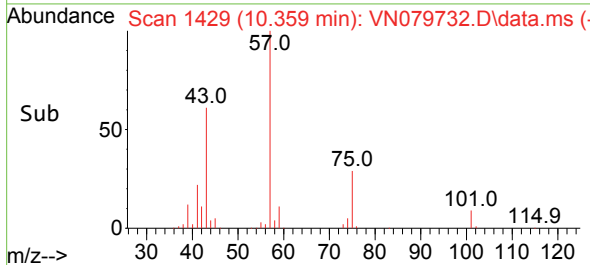
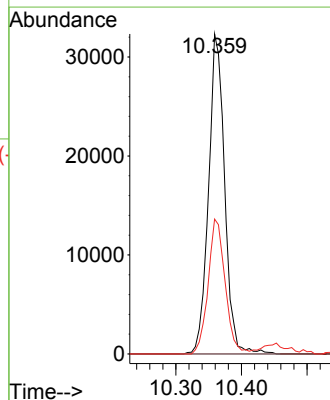
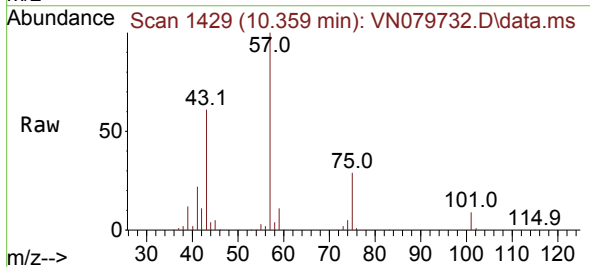
Instrument :
MSVOA_N
ClientSampleId :

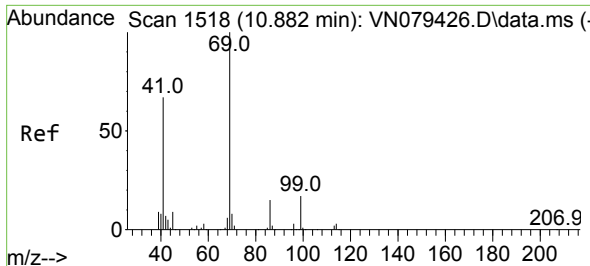
Tgt Ion: 43 Resp: 15208
Ion Ratio Lower Upper
43 100
58 24.7 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 9.525 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

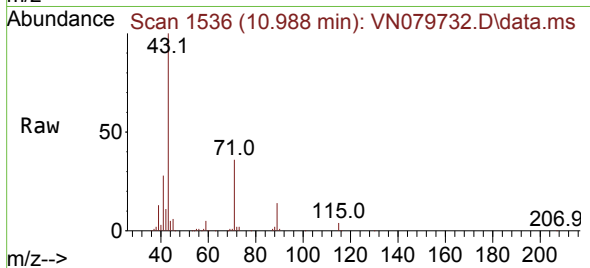
Tgt Ion: 75 Resp: 55337
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 42.2 31.6 47.4



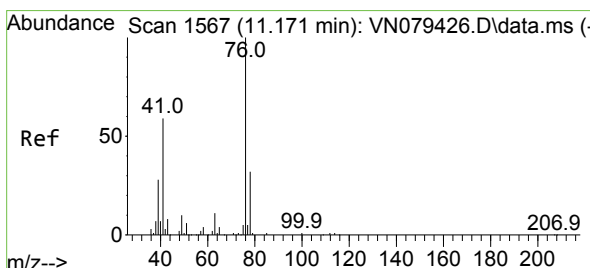
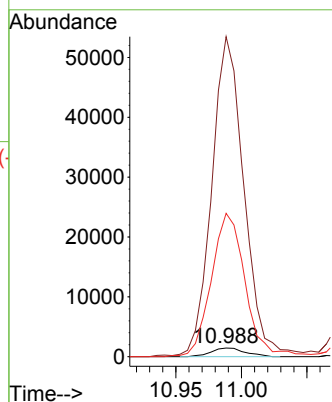
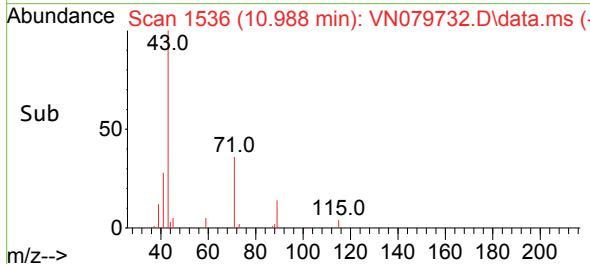


#56
Ethyl methacrylate
Concen: 0.529 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.106 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

Instrument :
MSVOA_N
ClientSampleId :

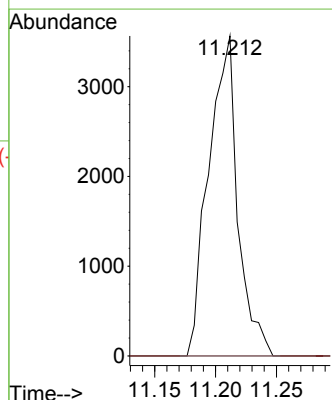
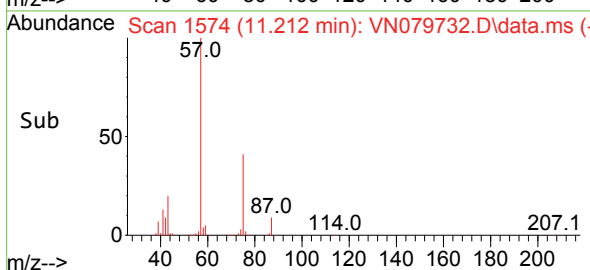
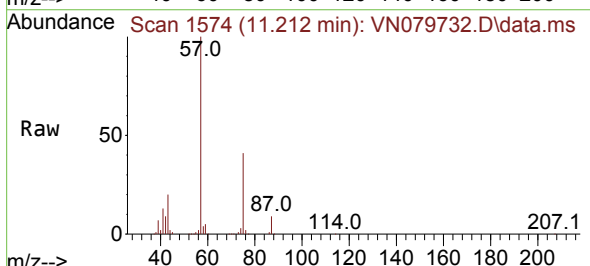


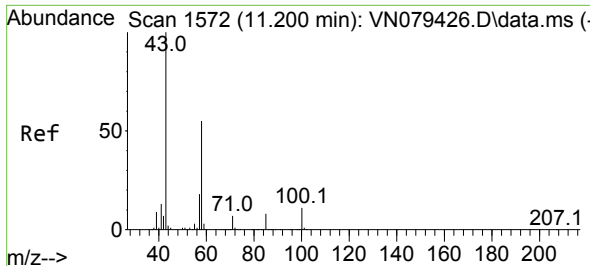
Tgt Ion: 69 Resp: 2637
Ion Ratio Lower Upper
69 100
41 3476.4 39.6 59.4#
39 1631.6 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 0.961 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.041 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

Tgt Ion: 76 Resp: 5943
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

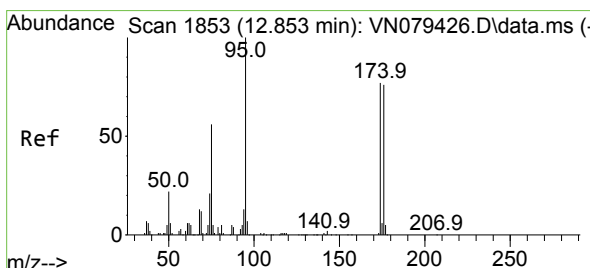
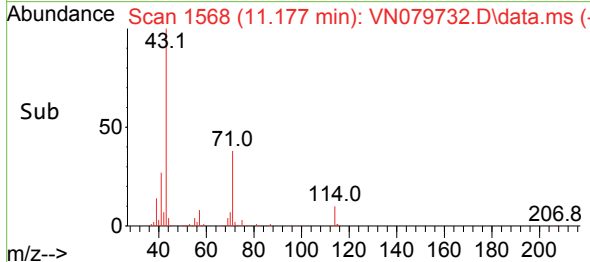
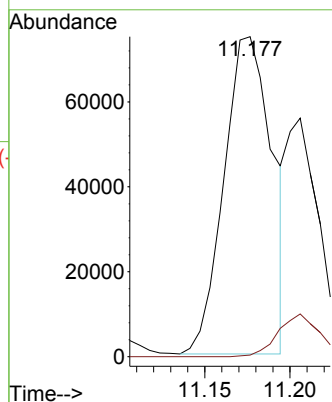
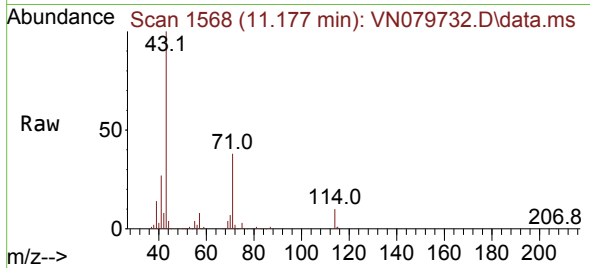




#59
2-Hexanone
Concen: 40.888 ug/l
RT: 11.177 min Scan# 1568
Delta R.T. -0.023 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

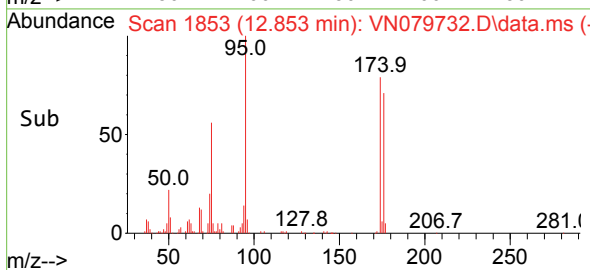
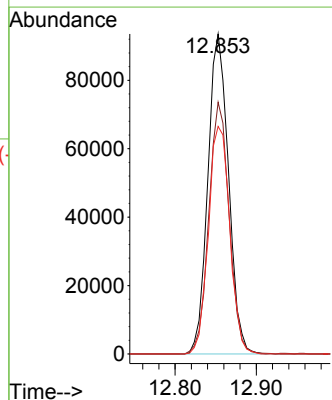
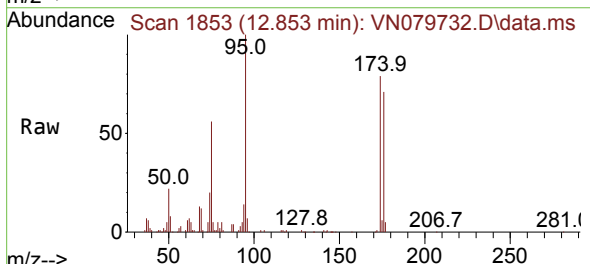
Instrument :
MSVOA_N
ClientSampleId :

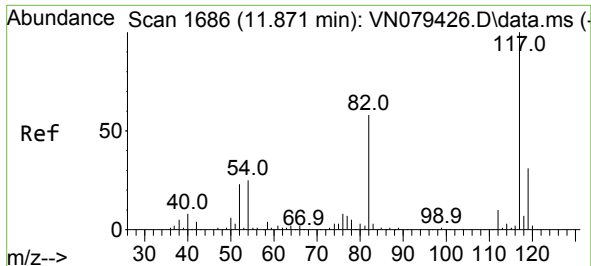
Tgt Ion: 43 Resp: 146967
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 42.012 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

Tgt Ion: 95 Resp: 164830
Ion Ratio Lower Upper
95 100
174 77.6 0.0 143.8
176 73.7 0.0 135.8

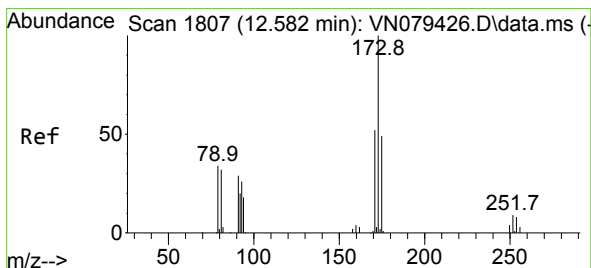
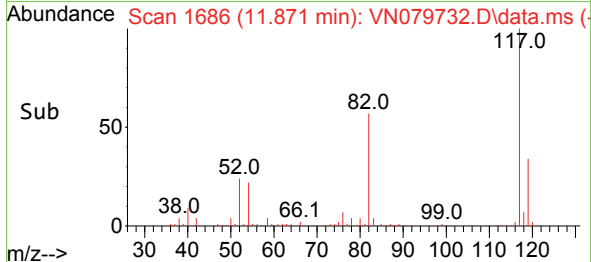
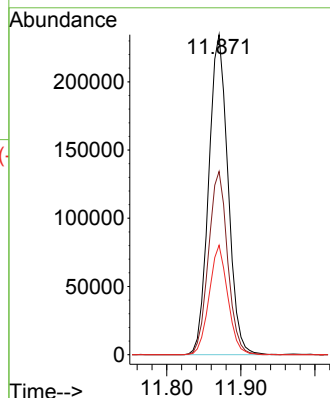
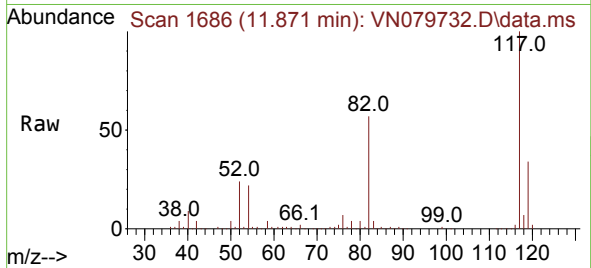




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

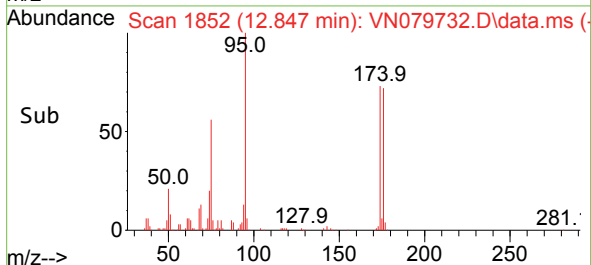
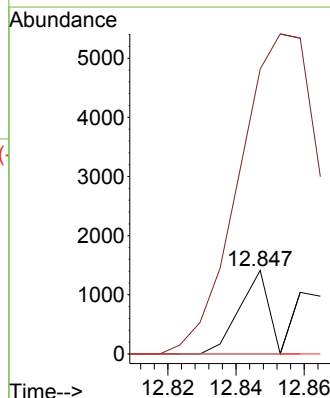
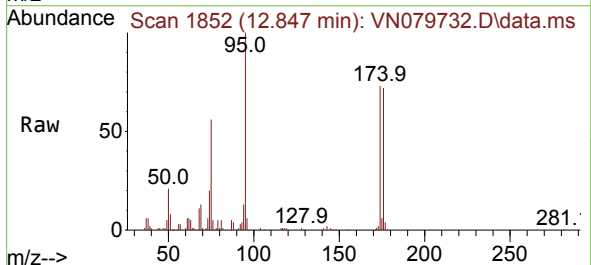
Instrument :
MSVOA_N
ClientSampleId :

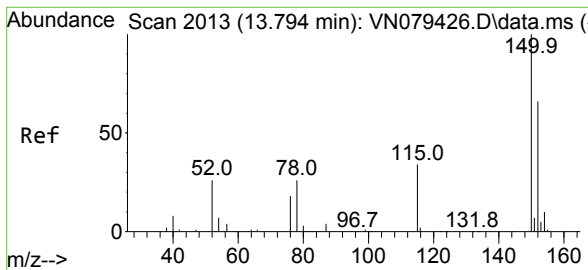
Tgt Ion:117 Resp: 423359
Ion Ratio Lower Upper
117 100
82 57.3 44.0 66.0
119 34.2 25.6 38.4



#71
Bromoform
Concen: 0.335 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

Tgt Ion:173 Resp: 836
Ion Ratio Lower Upper
173 100
175 878.6 24.3 73.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN079732.D

Acq: 30 Oct 2023 19:06

Instrument :

MSVOA_N

ClientSampleId :

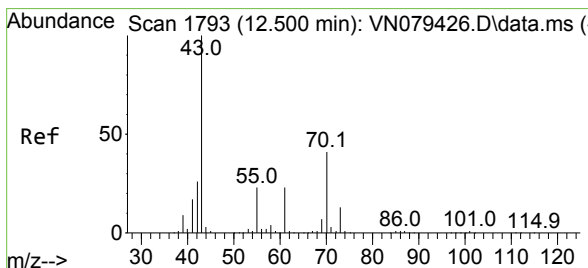
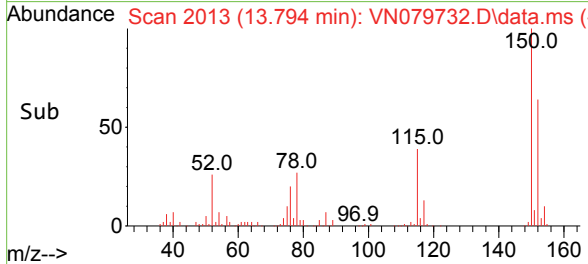
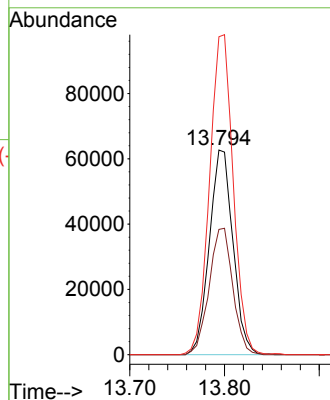
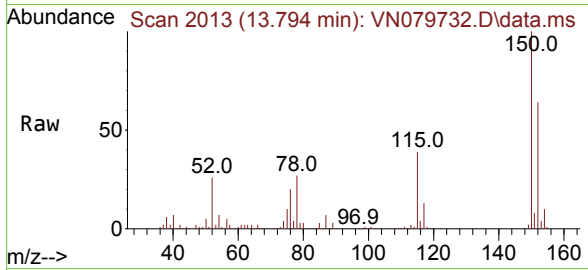
Tgt Ion:152 Resp: 108627

Ion Ratio Lower Upper

152 100

115 61.8 32.3 96.8

150 156.4 0.0 355.8



#74

N-ethyl acetate

Concen: 0.352 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.006 min

Lab File: VN079732.D

Acq: 30 Oct 2023 19:06

Tgt Ion: 43 Resp: 1376

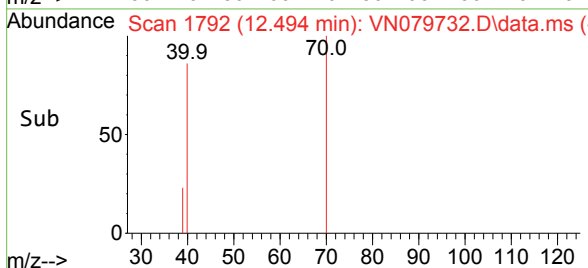
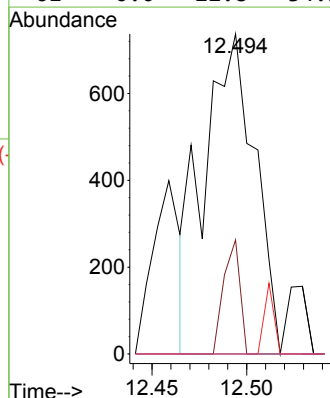
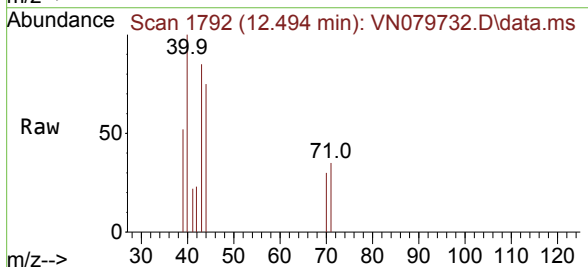
Ion Ratio Lower Upper

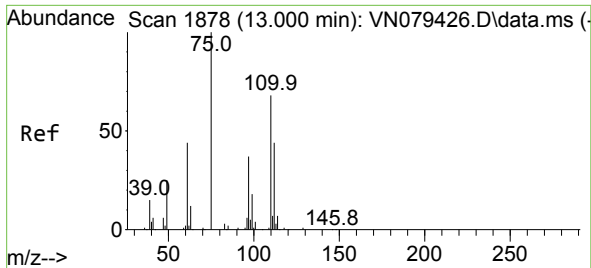
43 100

70 11.4 43.4 65.2#

55 4.2 21.4 32.0#

61 0.0 22.8 34.2#

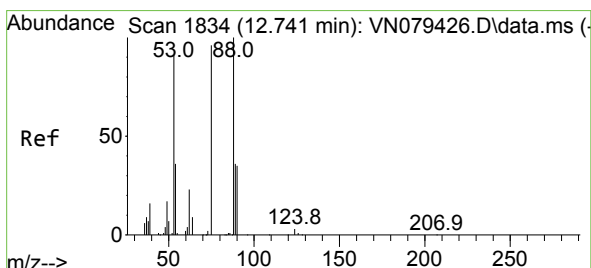
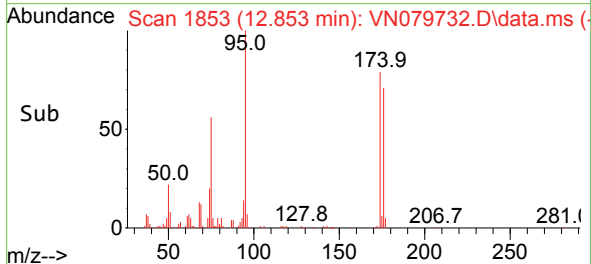
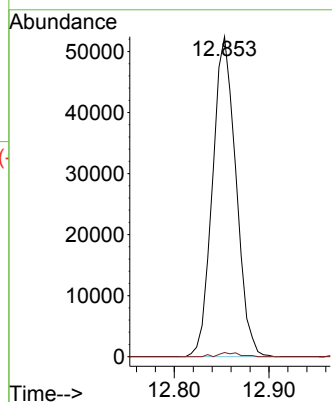
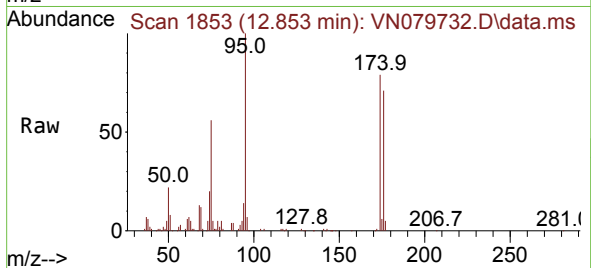




#76
1,2,3-Trichloropropane
Concen: 30.568 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

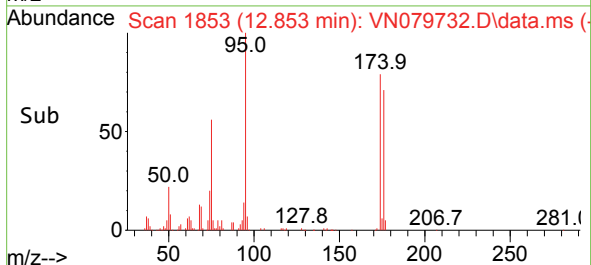
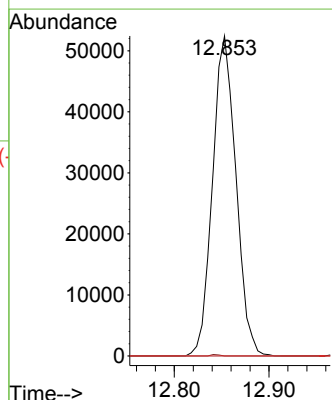
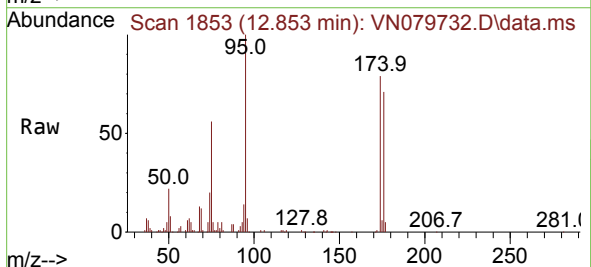
Instrument :
MSVOA_N
ClientSampleId :

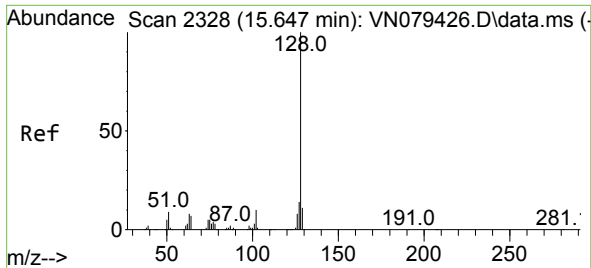
Tgt Ion: 75 Resp: 90166
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 92.208 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

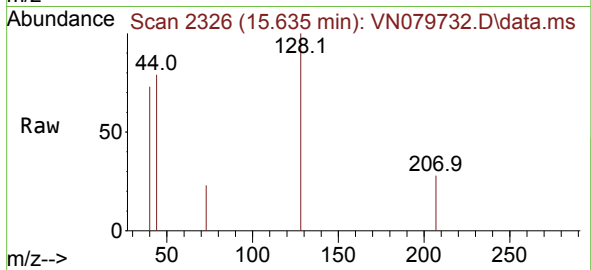
Tgt Ion: 75 Resp: 90166
Ion Ratio Lower Upper
75 100
53 0.2 67.4 101.2#
89 0.0 38.8 58.2#





#95
Naphthalene
Concen: 0.354 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.012 min
Lab File: VN079732.D
Acq: 30 Oct 2023 19:06

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:128 Resp: 1166
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#

