

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080823\
 Data File : VN078799.D
 Acq On : 08 Aug 2023 13:59
 Operator : JC\MD
 Sample : 03919-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-38

Quant Time: Aug 09 02:48:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080723W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 08 05:03:52 2023
 Response via : Initial Calibration

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

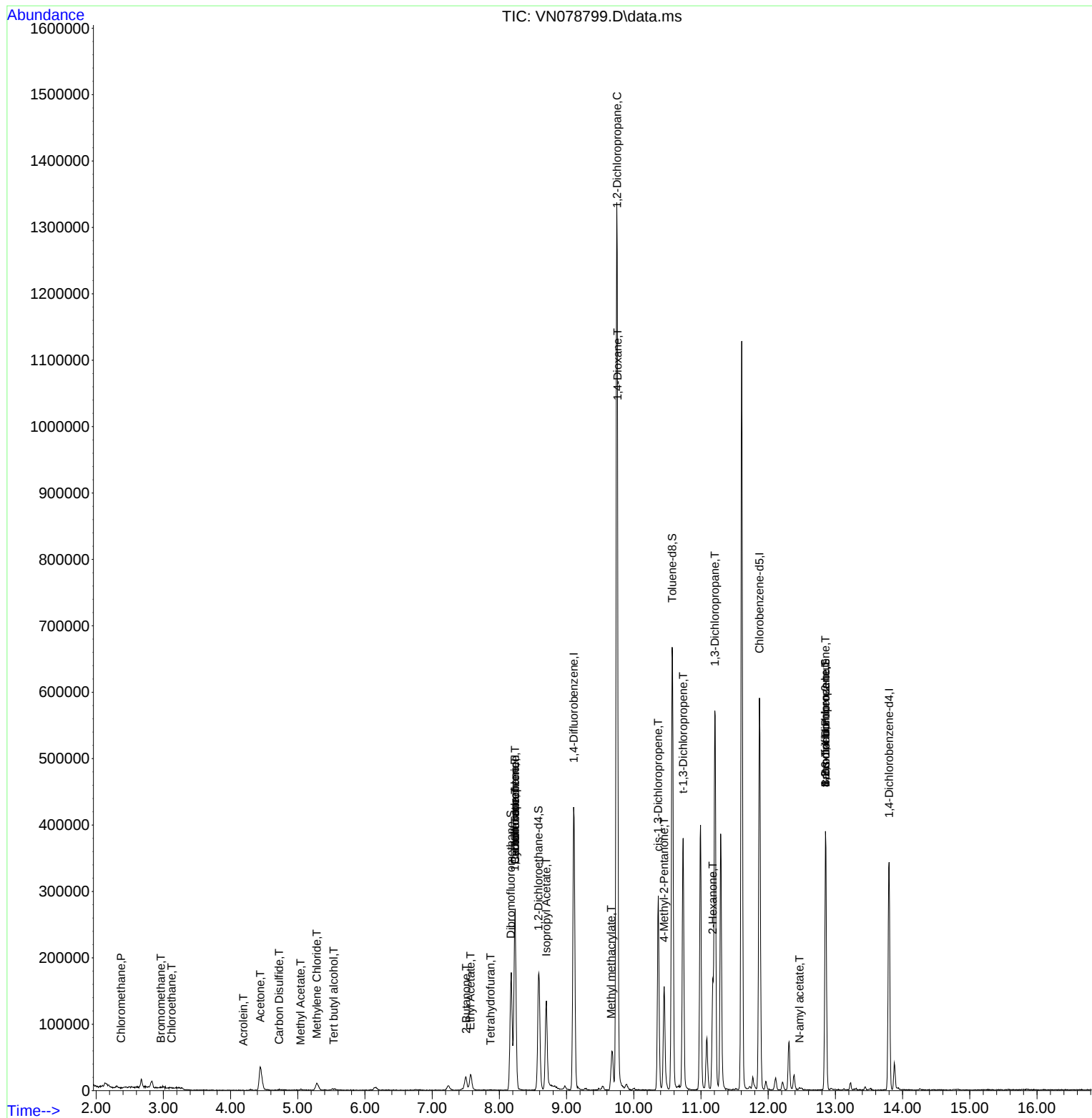
Internal Standards						
1) Pentafluorobenzene	8.235	168	186345	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	356772	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	329889	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	92602	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	140416	50.264	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 100.520%	
35) Dibromofluoromethane	8.171	113	118530	49.196	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 98.400%	
50) Toluene-d8	10.571	98	452820	51.072	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.140%	
62) 4-Bromofluorobenzene	12.853	95	124332	46.922	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 93.840%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	761	0.237	ug/l #	88
5) Bromomethane	2.965	94	512	0.239	ug/l #	48
6) Chloroethane	3.124	64	414	0.208	ug/l #	43
11) Tert butyl alcohol	5.536	59	1962	4.002	ug/l #	72
13) Acrolein	4.189	56	90	0.217	ug/l	92
16) Acetone	4.442	43	65238	60.694	ug/l	96
17) Carbon Disulfide	4.724	76	1265	0.204	ug/l #	75
18) Methyl Acetate	5.042	43	1801	0.373	ug/l #	48
20) Methylene Chloride	5.283	84	4737	1.779	ug/l	93
25) 2-Butanone	7.506	43	32112	17.643	ug/l #	69
29) Tetrahydrofuran	7.871	42	537	0.441	ug/l #	36
31) Cyclohexane	8.235	56	5205	1.268	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	16606	4.443	ug/l #	48
37) Ethyl Acetate	7.571	43	35520	8.938	ug/l #	86
38) Carbon Tetrachloride	8.235	117	20046	5.202	ug/l #	16
43) Isopropyl Acetate	8.700	43	153527	22.913	ug/l #	78
45) 1,2-Dichloropropane	9.753	63	2097	0.692	ug/l #	45
48) Methyl methacrylate	9.665	41	4483	1.448	ug/l #	30
49) 1,4-Dioxane	9.759	88	91	1.810	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	116445	28.373	ug/l #	82
53) t-1,3-Dichloropropene	10.735	75	1204	0.293	ug/l #	43
54) cis-1,3-Dichloropropene	10.365	75	47547	10.668	ug/l #	74
57) 1,3-Dichloropropane	11.206	76	6667	1.397	ug/l #	42
59) 2-Hexanone	11.176	43	132681	45.656	ug/l #	19
71) Bromoform	12.853	173	1066	0.525	ug/l #	28
74) N-amyl acetate	12.465	43	2159	0.522	ug/l #	40
76) 1,2,3-Trichloropropane	12.853	75	68965	27.546	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	68965	73.915	ug/l #	15

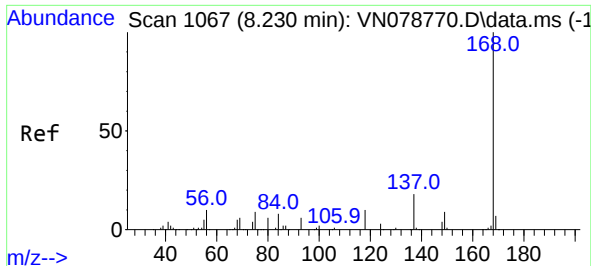
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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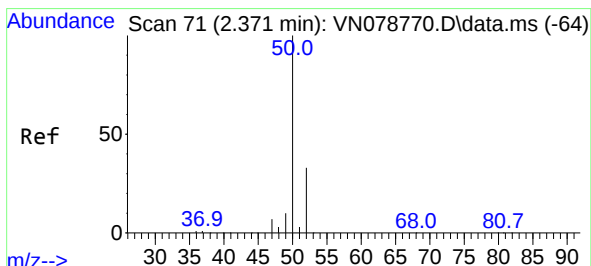
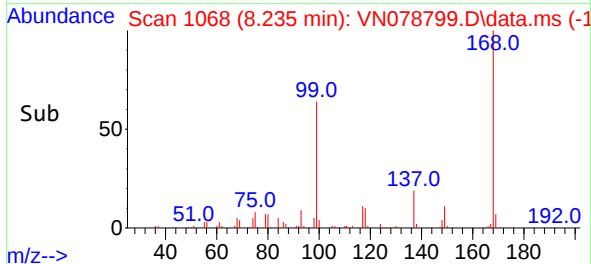
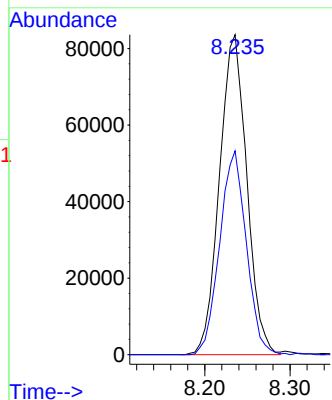
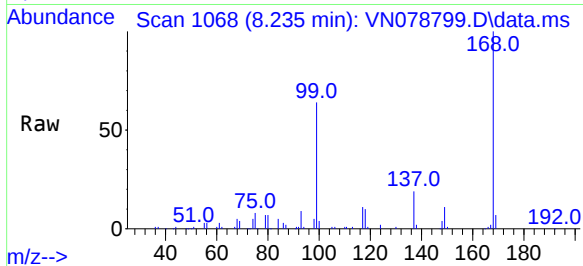




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

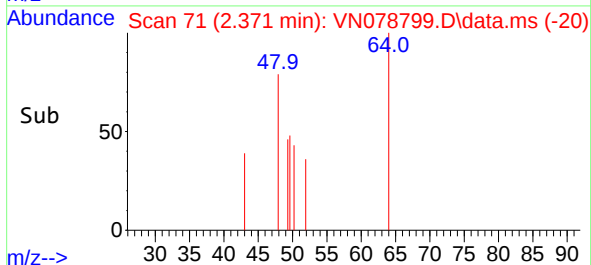
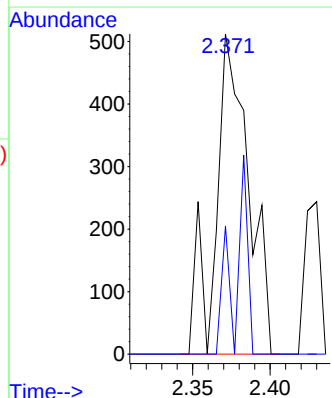
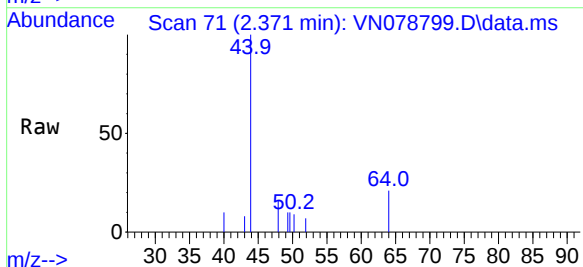
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MSVOA_N
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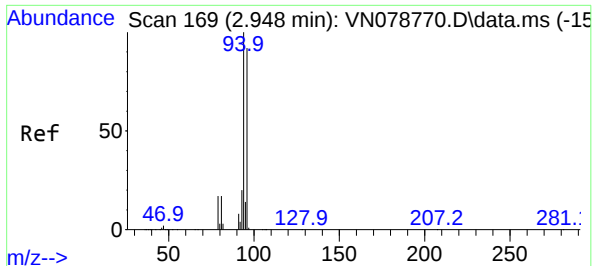
Tgt Ion:168 Resp: 186345
Ion Ratio Lower Upper
168 100
99 63.7 53.0 79.6



#3
Chloromethane
Concen: 0.237 ug/l
RT: 2.371 min Scan# 71
Delta R.T. -0.000 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

Tgt Ion: 50 Resp: 761
Ion Ratio Lower Upper
50 100
52 40.0 26.5 39.7#

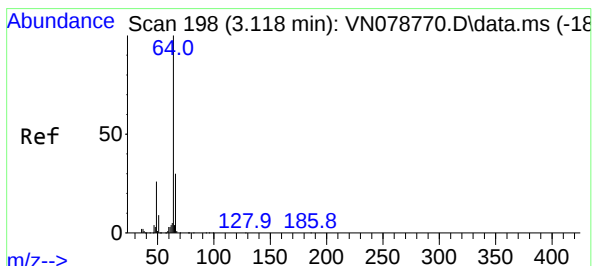
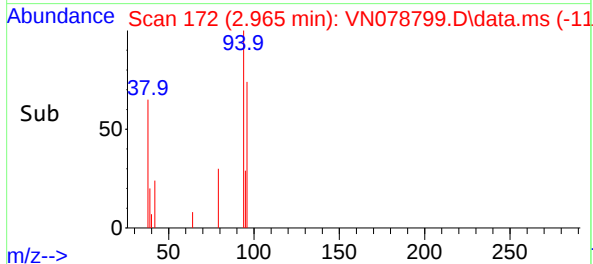
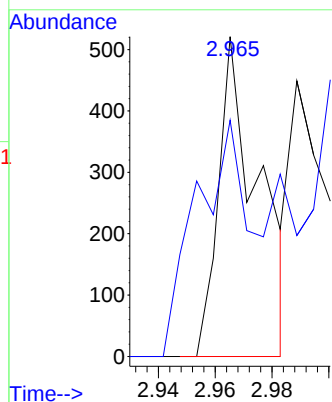
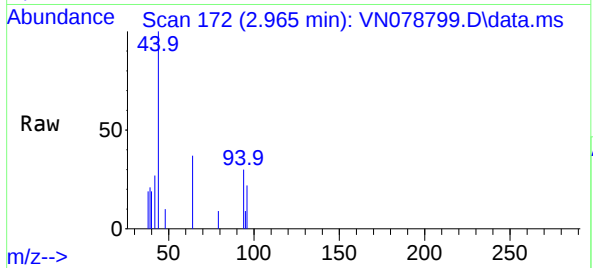




#5
Bromomethane
Concen: 0.239 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

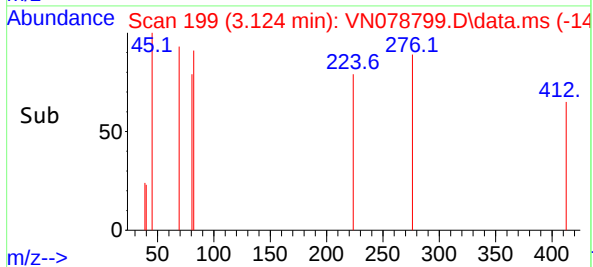
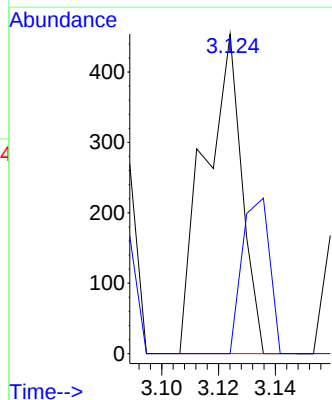
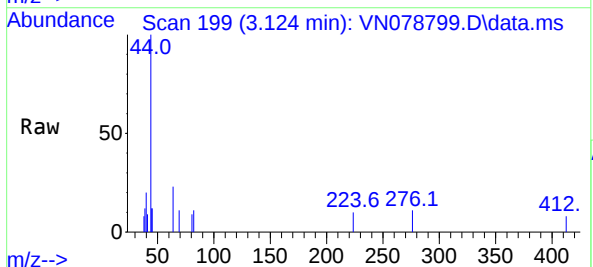
Instrument :
MSVOA_N
ClientSampleId :
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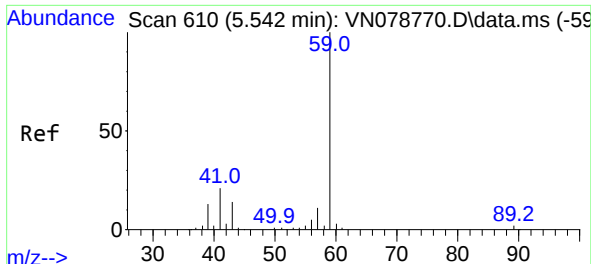
Tgt Ion: 94 Resp: 512
Ion Ratio Lower Upper
94 100
96 42.0 73.1 109.7#



#6
Chloroethane
Concen: 0.208 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

Tgt Ion: 64 Resp: 414
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

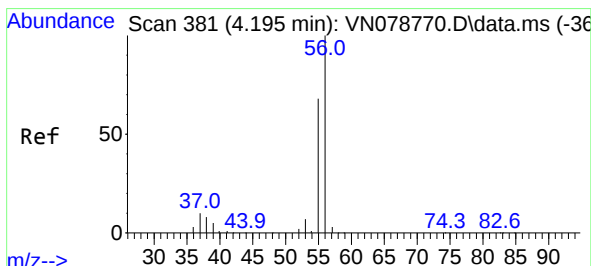
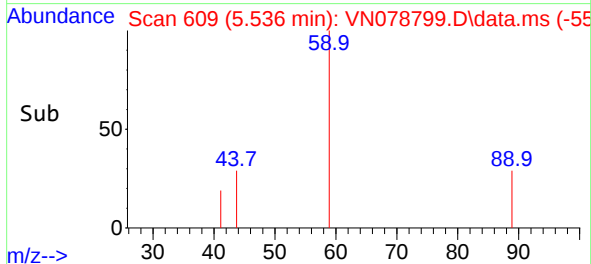
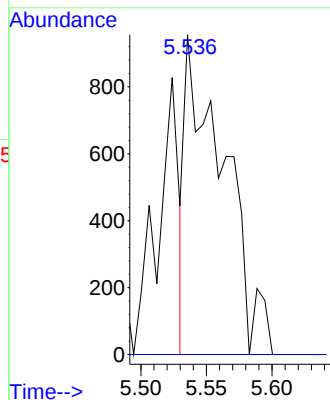
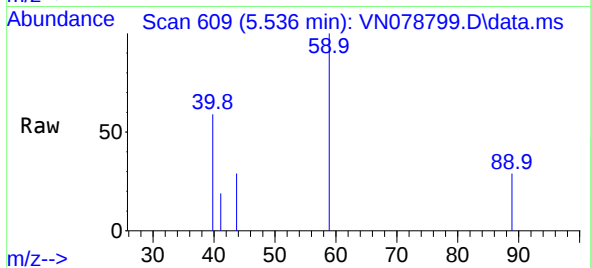




#11
Tert butyl alcohol
Concen: 4.002 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

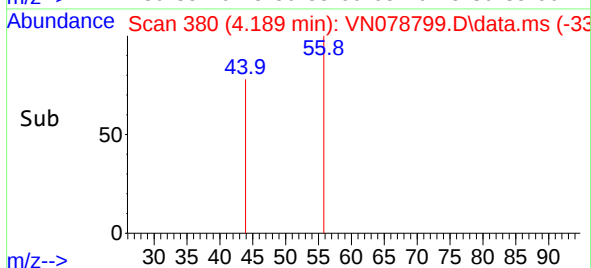
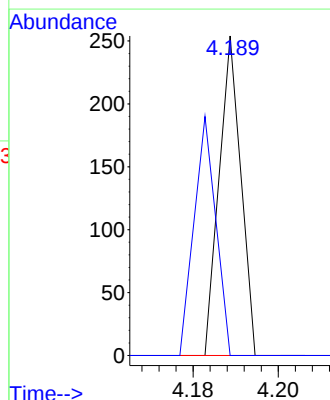
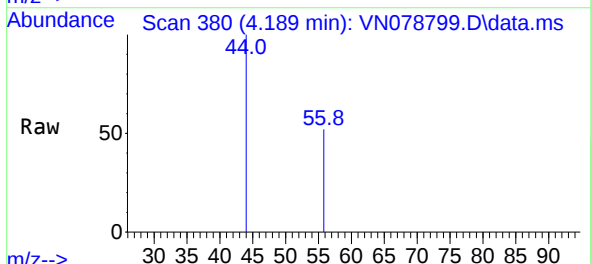
Instrument :
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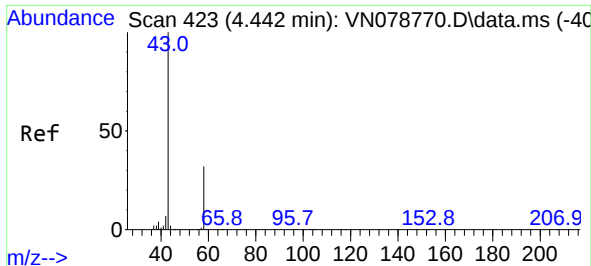
Tgt Ion: 59 Resp: 1962
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.217 ug/l
RT: 4.189 min Scan# 380
Delta R.T. -0.006 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

Tgt Ion: 56 Resp: 90
Ion Ratio Lower Upper
56 100
55 74.4 54.5 81.7

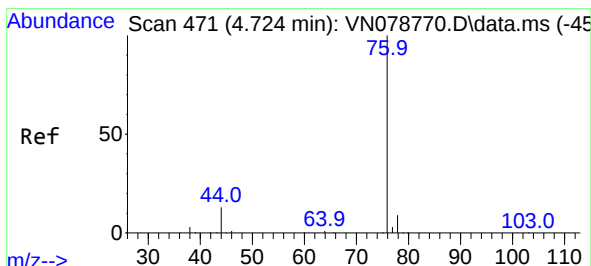
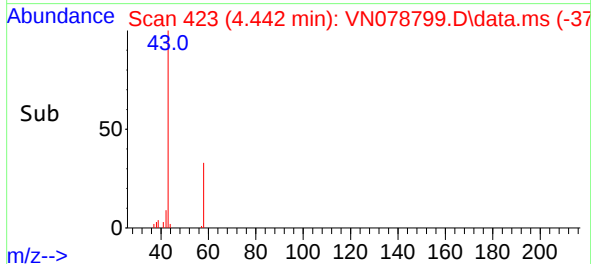
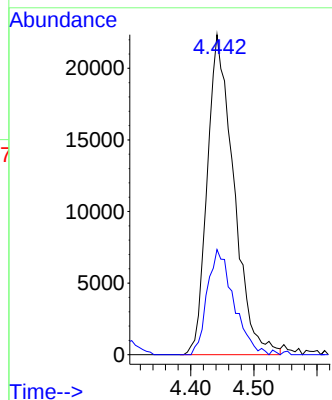
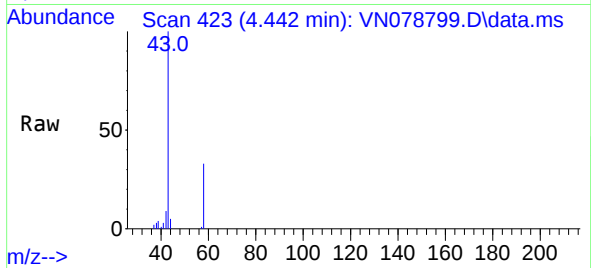




#16
Acetone
Concen: 60.694 ug/l
RT: 4.442 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

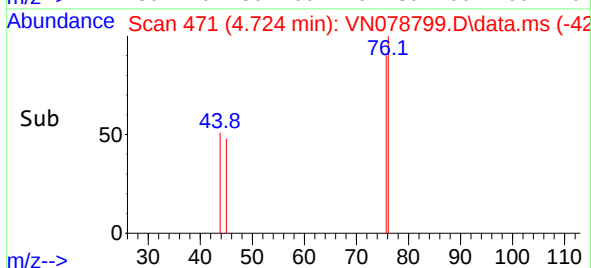
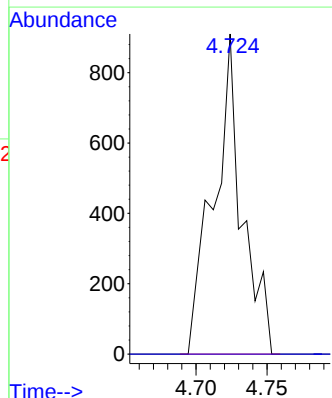
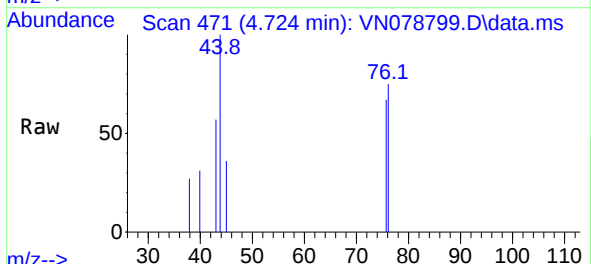
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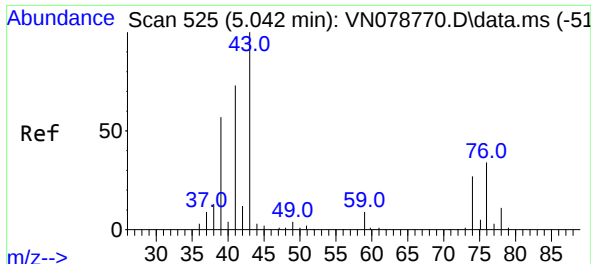
Tgt Ion: 43 Resp: 65238
Ion Ratio Lower Upper
43 100
58 32.8 28.0 42.0



#17
Carbon Disulfide
Concen: 0.204 ug/l
RT: 4.724 min Scan# 471
Delta R.T. -0.000 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

Tgt Ion: 76 Resp: 1265
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#

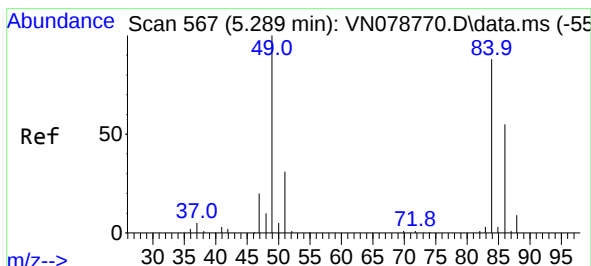
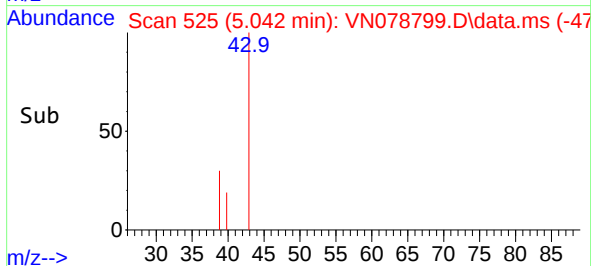
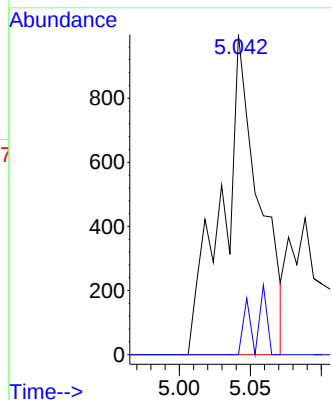
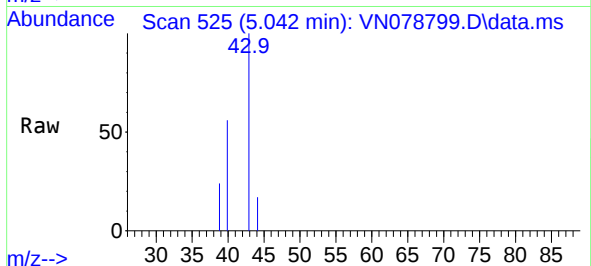




#18
Methyl Acetate
Concen: 0.373 ug/l
RT: 5.042 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

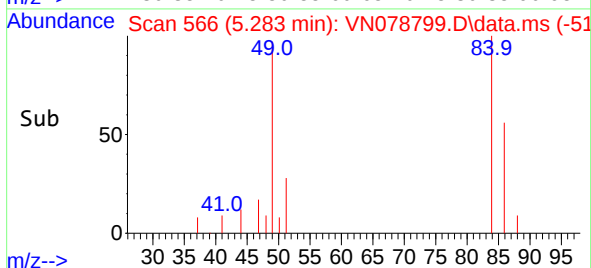
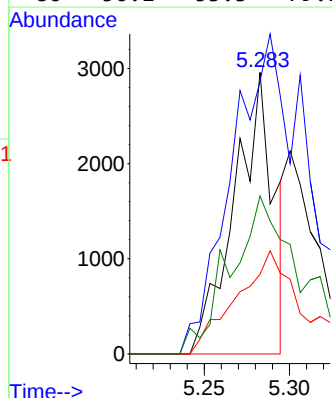
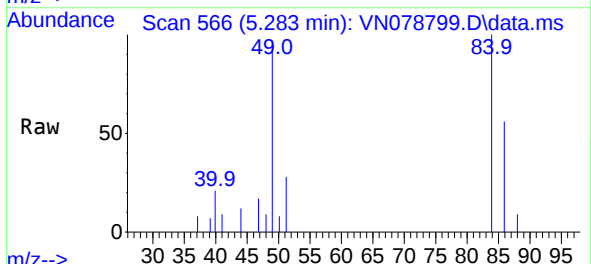
Instrument :
MSVOA_N
ClientSampleId :
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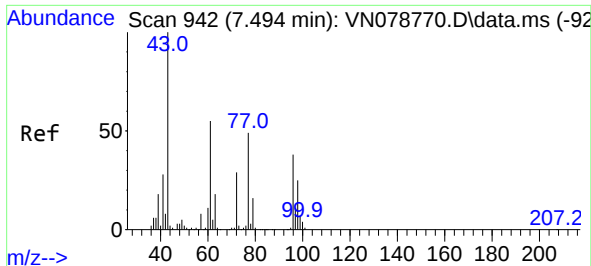
Tgt Ion: 43 Resp: 1801
Ion Ratio Lower Upper
43 100
74 3.4 26.2 39.4#



#20
Methylene Chloride
Concen: 1.779 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.006 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

Tgt Ion: 84 Resp: 4737
Ion Ratio Lower Upper
84 100
49 96.9 79.7 119.5
51 28.3 25.2 37.8
86 56.1 53.3 79.9





#25

2-Butanone

Concen: 17.643 ug/l

RT: 7.506 min Scan# 94

Delta R.T. 0.012 min

Lab File: VN078799.D

Acq: 08 Aug 2023 13:59

Instrument :

MSVOA_N

ClientSampleId :

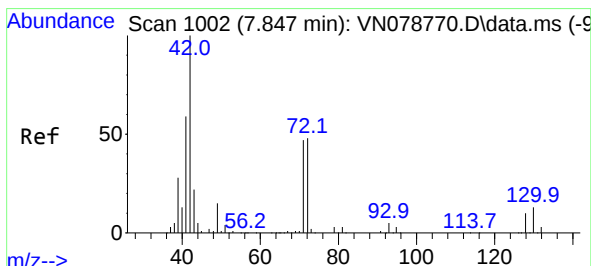
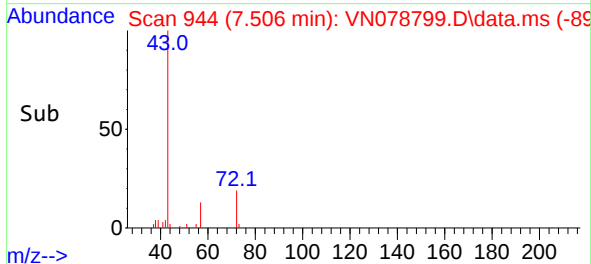
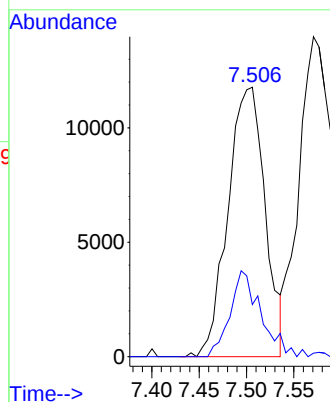
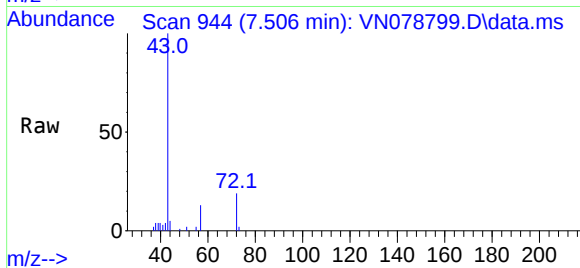
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Tgt Ion: 43 Resp: 32112

Ion Ratio Lower Upper

43 100

72 19.4 30.2 45.2#



#29

Tetrahydrofuran

Concen: 0.441 ug/l

RT: 7.871 min Scan# 1006

Delta R.T. 0.024 min

Lab File: VN078799.D

Acq: 08 Aug 2023 13:59

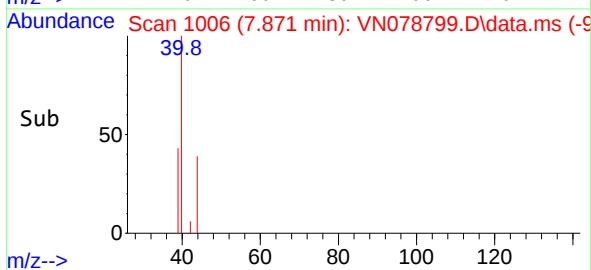
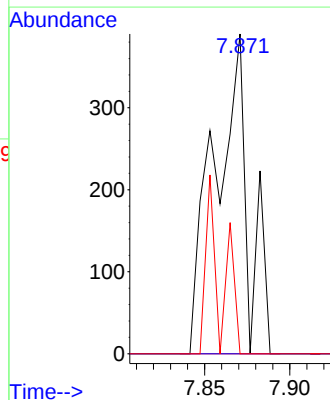
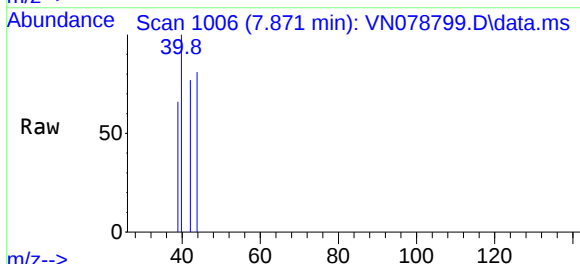
Tgt Ion: 42 Resp: 537

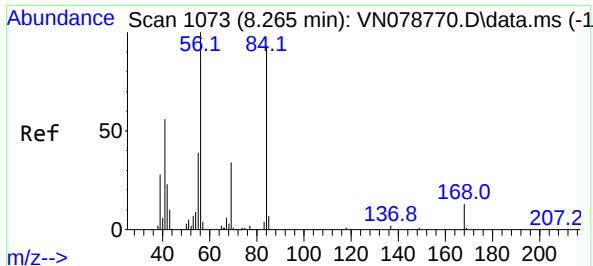
Ion Ratio Lower Upper

42 100

72 0.0 49.8 74.6#

71 24.8 47.4 71.2#

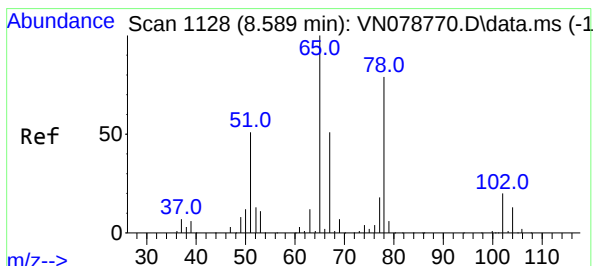
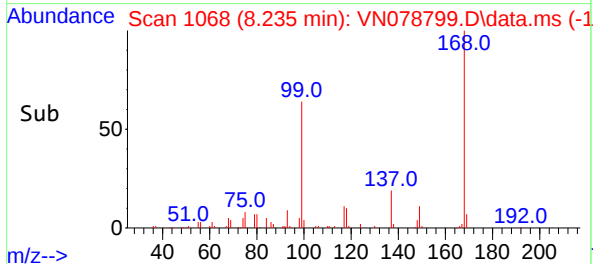
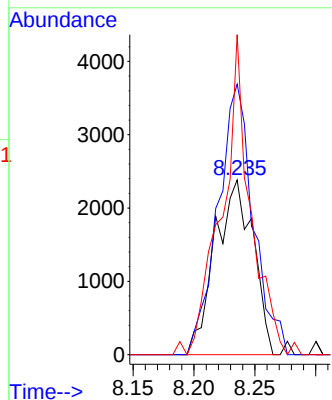
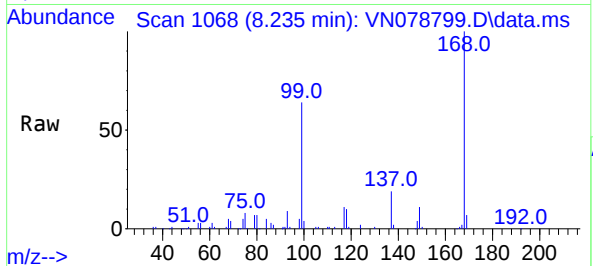




#31
Cyclohexane
Concen: 1.268 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.030 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

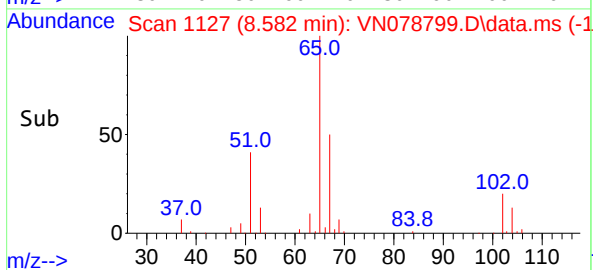
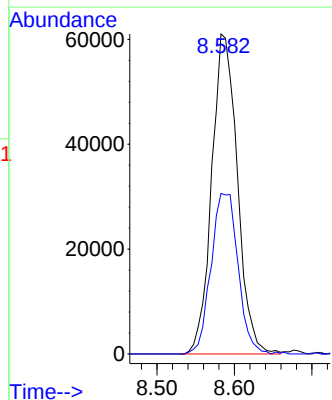
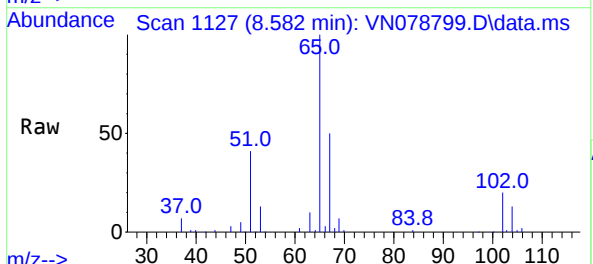
Instrument :
MSVOA_N
ClientSampleId :
TP-38

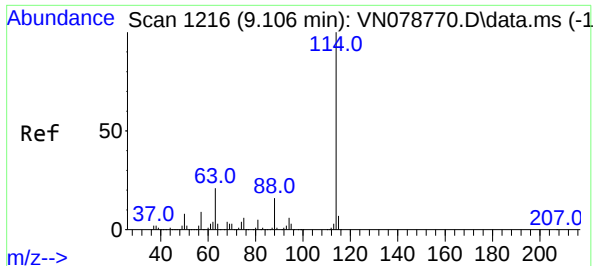
Tgt Ion: 56 Resp: 5205
Ion Ratio Lower Upper
56 100
69 154.8 26.8 40.2#
84 175.7 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 50.264 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

Tgt Ion: 65 Resp: 140416
Ion Ratio Lower Upper
65 100
67 52.7 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN078799.D

Acq: 08 Aug 2023 13:59

Instrument :

MSVOA_N

ClientSampleId :

TP-38

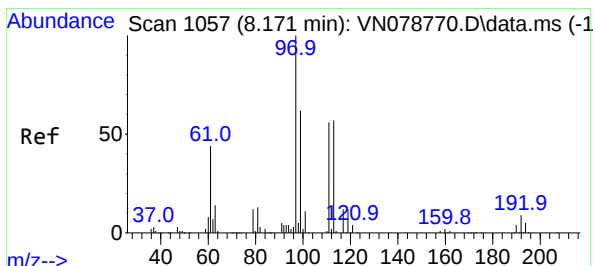
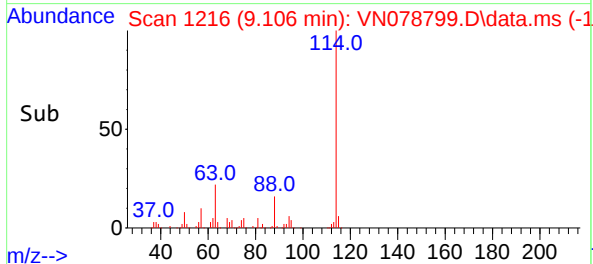
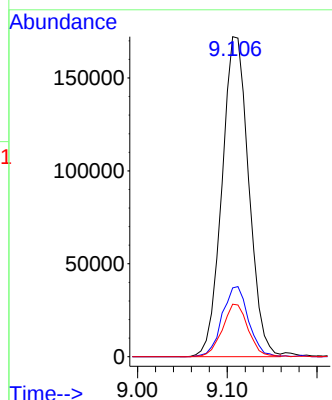
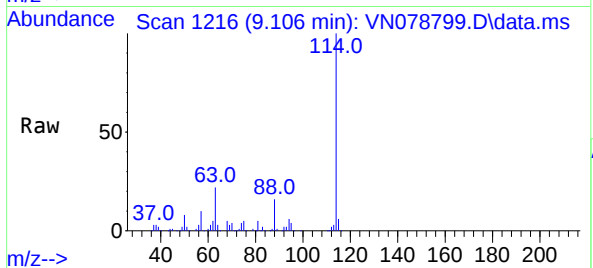
Tgt Ion:114 Resp: 356772

Ion Ratio Lower Upper

114 100

63 21.5 0.0 36.4

88 16.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.196 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN078799.D

Acq: 08 Aug 2023 13:59

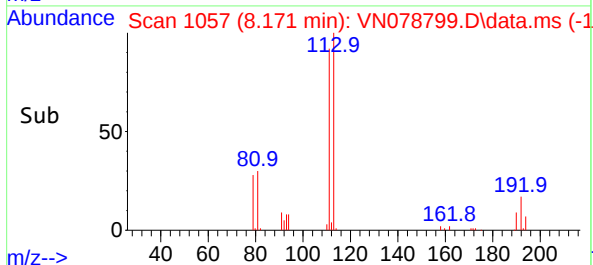
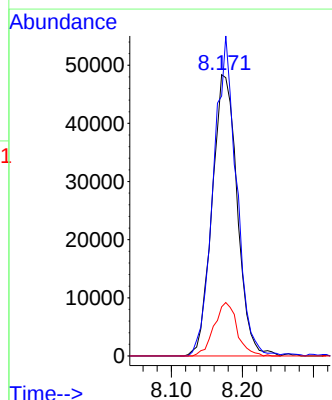
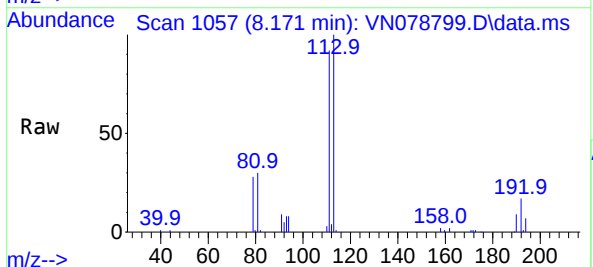
Tgt Ion:113 Resp: 118530

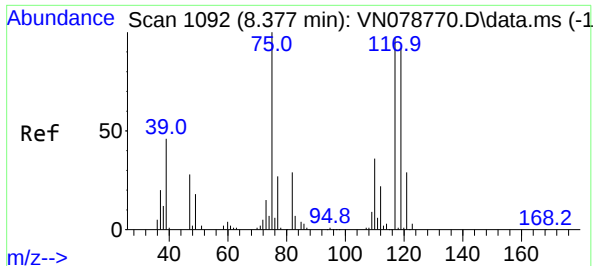
Ion Ratio Lower Upper

113 100

111 104.3 82.6 123.8

192 17.4 12.7 19.1

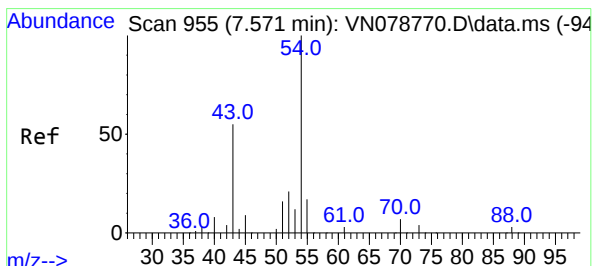
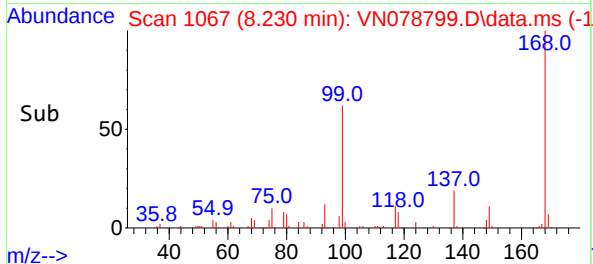
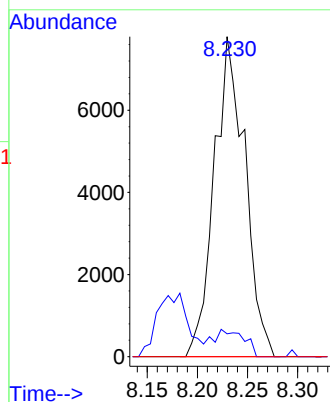
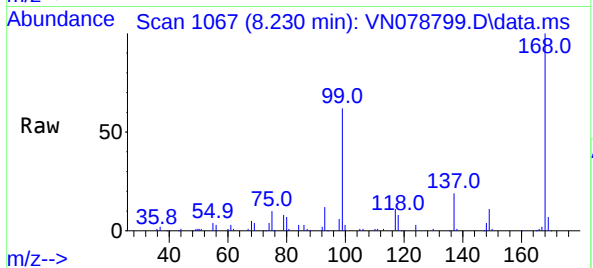




#36
1,1-Dichloropropene
Concen: 4.443 ug/l
RT: 8.230 min Scan# 1092
Delta R.T. -0.147 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

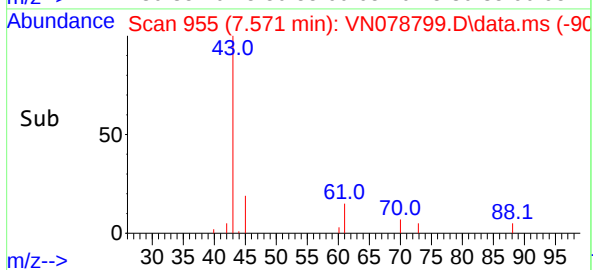
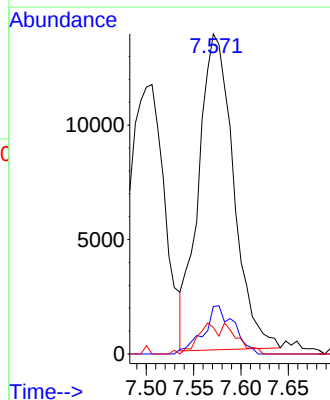
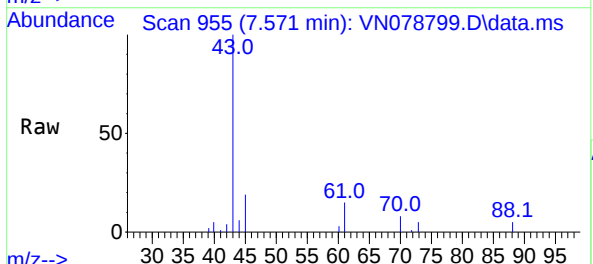
Instrument :
MSVOA_N
ClientSampleId :
TP-38

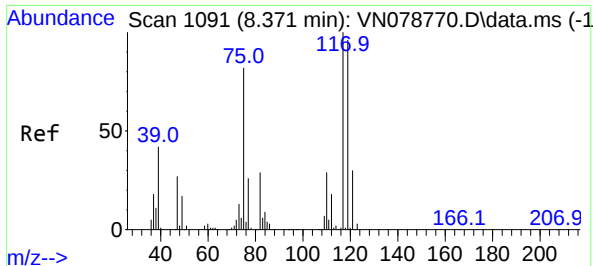
Tgt Ion: 75 Resp: 16606
Ion Ratio Lower Upper
75 100
110 8.5 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 8.938 ug/l
RT: 7.571 min Scan# 955
Delta R.T. -0.000 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

Tgt Ion: 43 Resp: 35520
Ion Ratio Lower Upper
43 100
61 13.2 13.2 19.8
70 5.6 11.3 16.9#

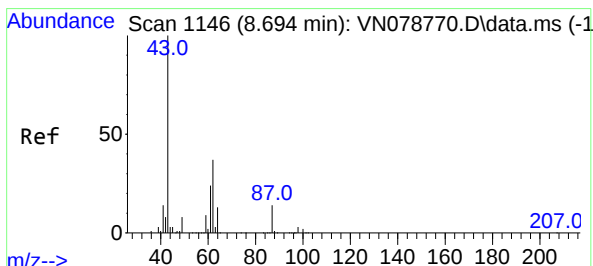
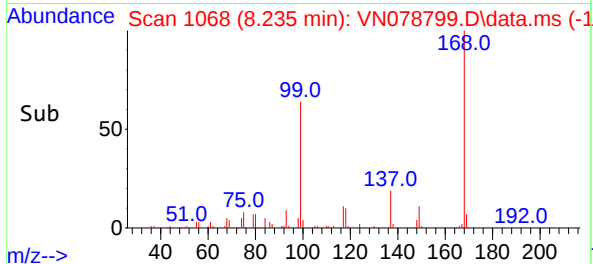
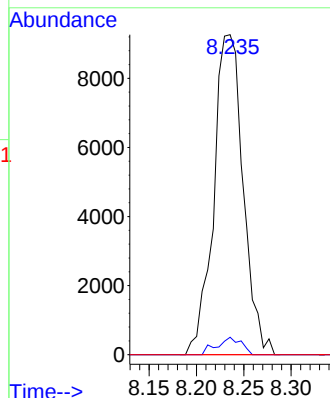
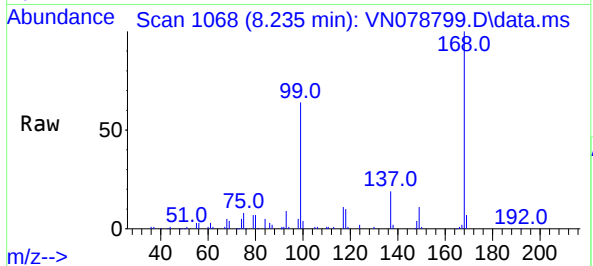




#38
Carbon Tetrachloride
Concen: 5.202 ug/l
RT: 8.235 min Scan# 110
Delta R.T. -0.135 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

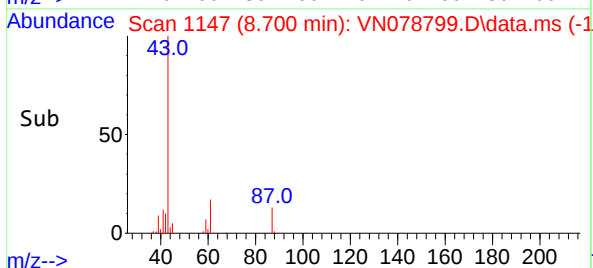
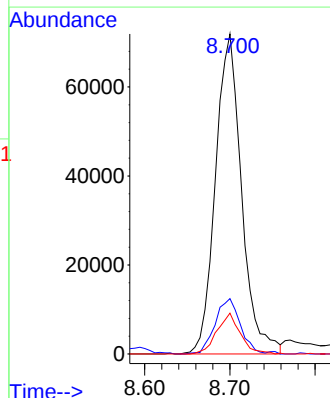
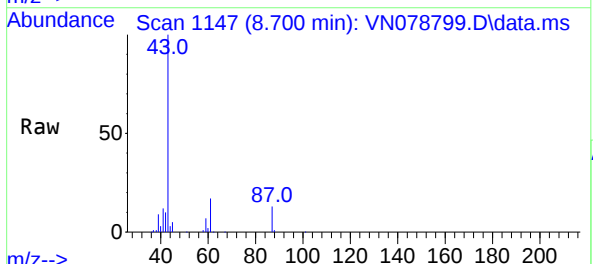
Instrument :
MSVOA_N
ClientSampleId :
TP-38

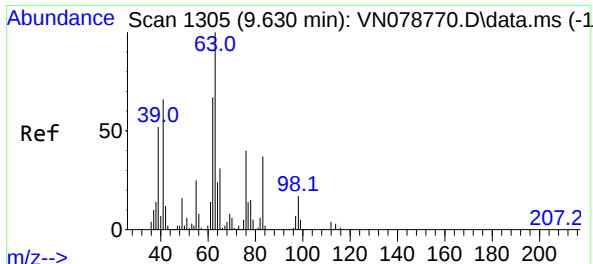
Tgt Ion:117 Resp: 20046
Ion Ratio Lower Upper
117 100
119 5.5 77.3 115.9#
121 0.0 23.3 34.9#



#43
Isopropyl Acetate
Concen: 22.913 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.006 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

Tgt Ion: 43 Resp: 153527
Ion Ratio Lower Upper
43 100
61 16.6 24.7 37.1#
87 11.5 14.6 21.8#

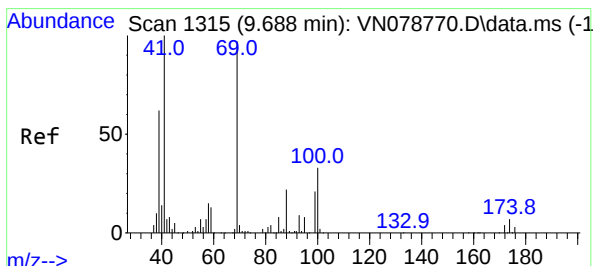
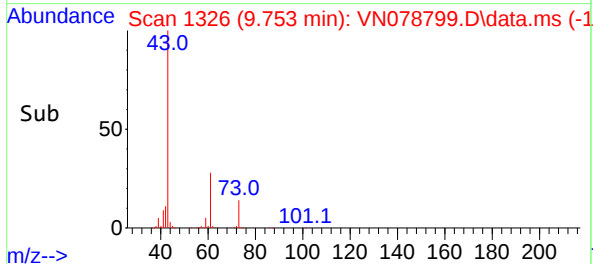
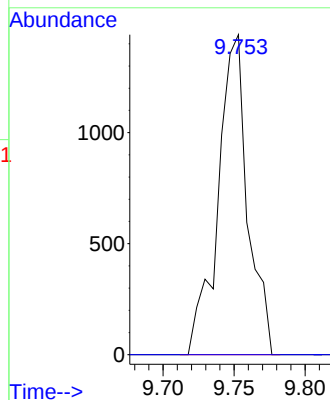
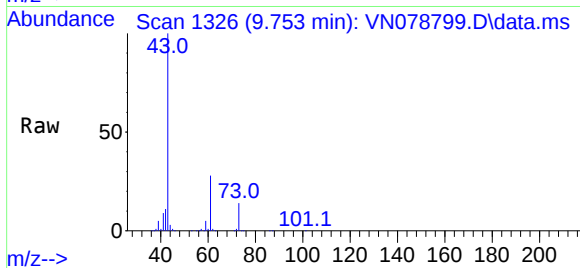




#45
1,2-Dichloropropane
Concen: 0.692 ug/l
RT: 9.753 min Scan# 11
Delta R.T. 0.123 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

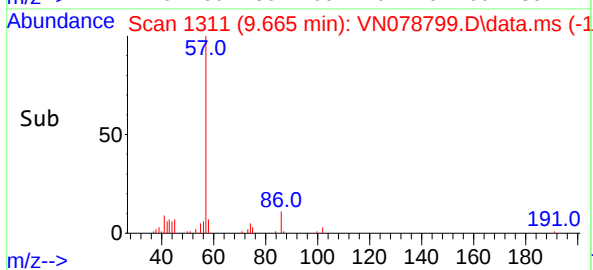
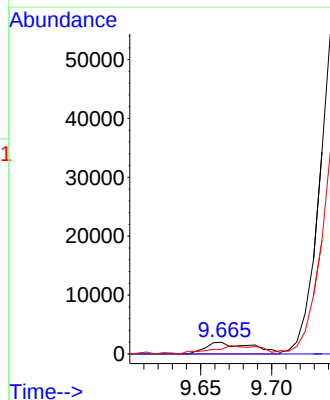
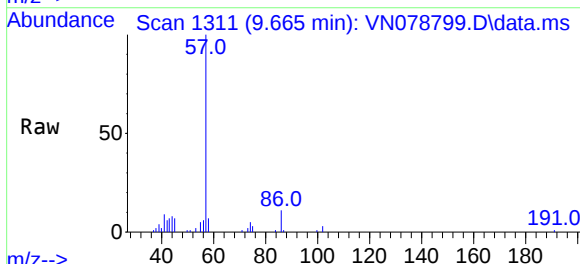
Instrument :
MSVOA_N
ClientSampleId :
TP-38

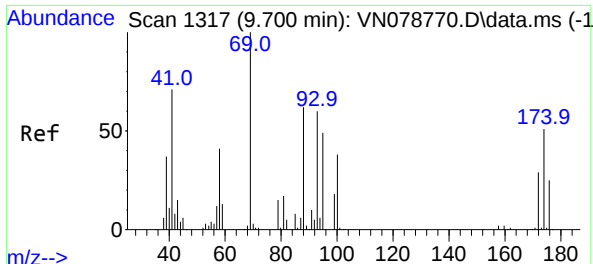
Tgt Ion: 63 Resp: 2097
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



#48
Methyl methacrylate
Concen: 1.448 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.024 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

Tgt Ion: 41 Resp: 4483
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 58.2 54.6 81.8

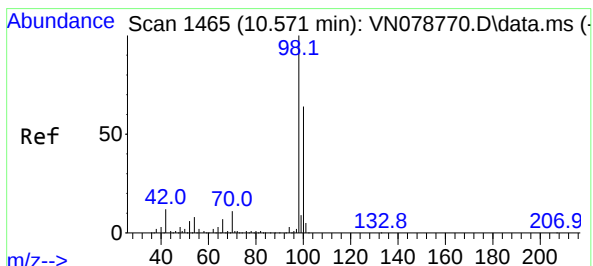
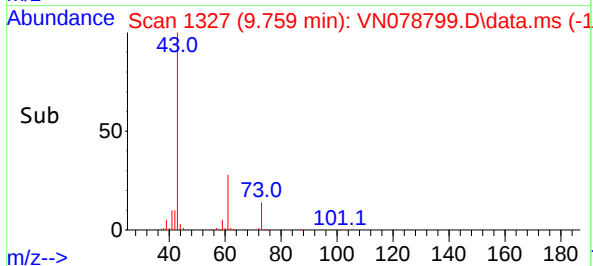
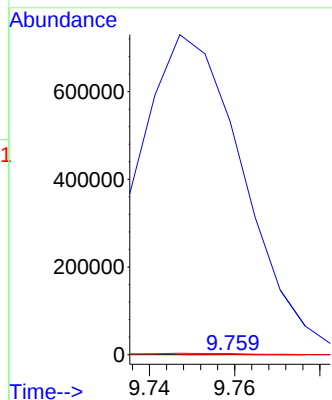
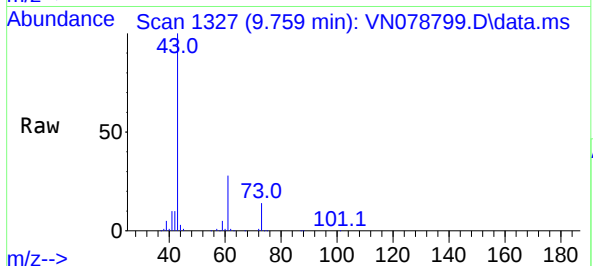




#49
1,4-Dioxane
Concen: 1.810 ug/l
RT: 9.759 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

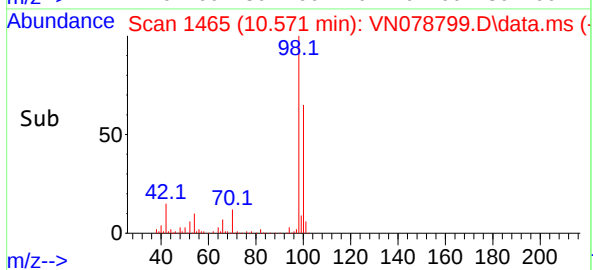
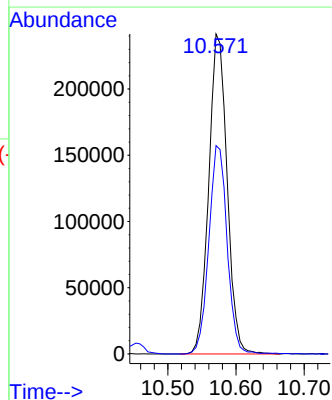
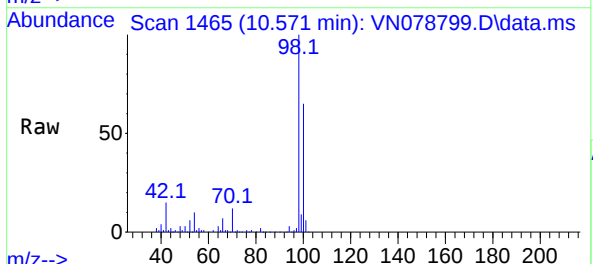
Instrument :
MSVOA_N
ClientSampleId :
TP-38

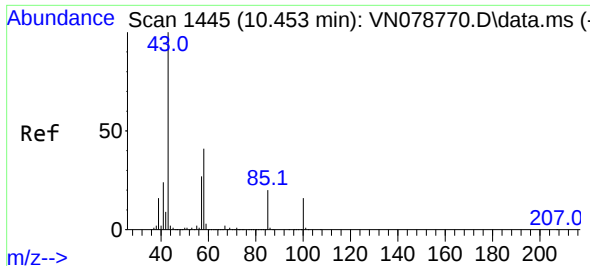
Tgt Ion: 88 Resp: 91
Ion Ratio Lower Upper
88 100
43 1463048.4 17.0 25.6#
58 6576.9 47.0 70.4#



#50
Toluene-d8
Concen: 51.072 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

Tgt Ion: 98 Resp: 452820
Ion Ratio Lower Upper
98 100
100 65.0 52.0 78.0

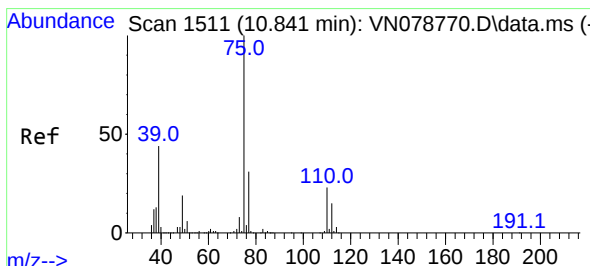
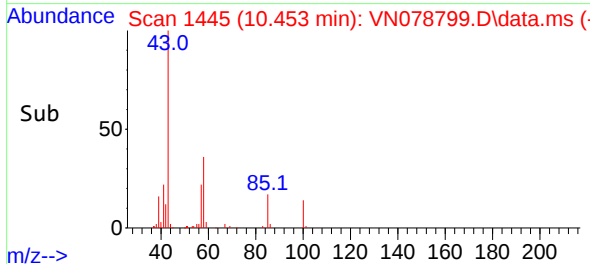
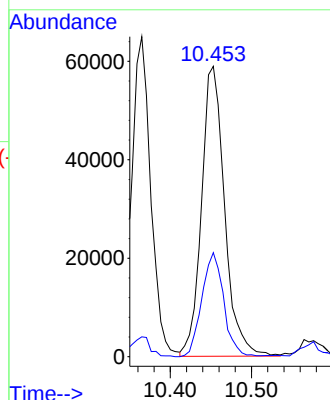
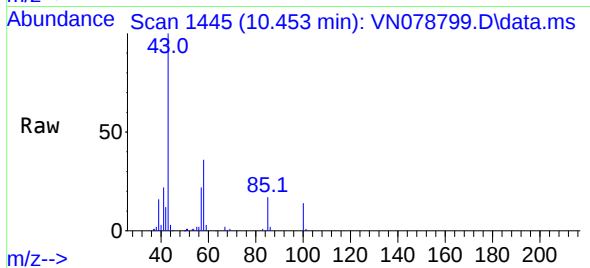




#51
4-Methyl-2-Pentanone
Concen: 28.373 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

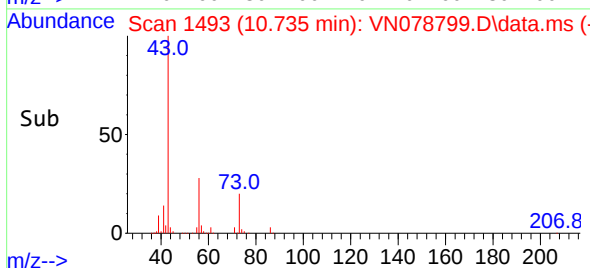
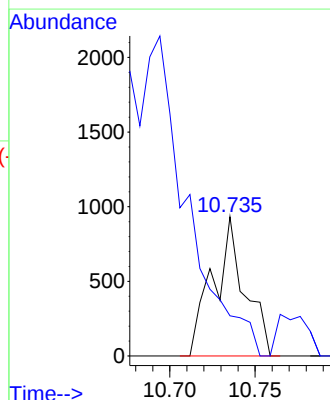
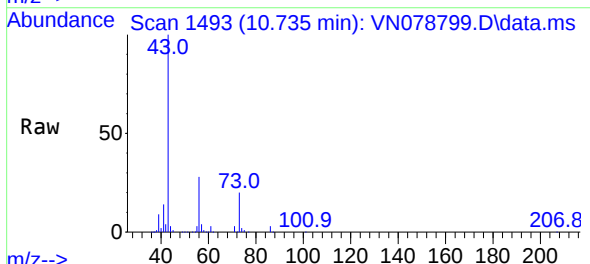
Instrument :
MSVOA_N
ClientSampleId :
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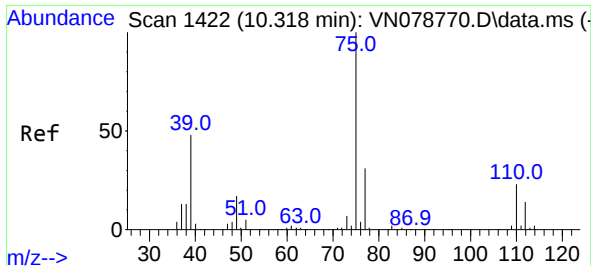
Tgt Ion: 43 Resp: 116445
Ion Ratio Lower Upper
43 100
58 34.0 36.6 54.8#



#53
t-1,3-Dichloropropene
Concen: 0.293 ug/l
RT: 10.735 min Scan# 1493
Delta R.T. -0.106 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

Tgt Ion: 75 Resp: 1204
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#

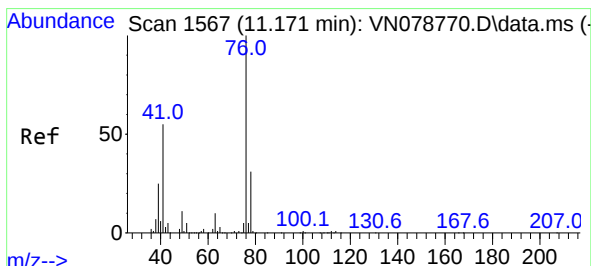
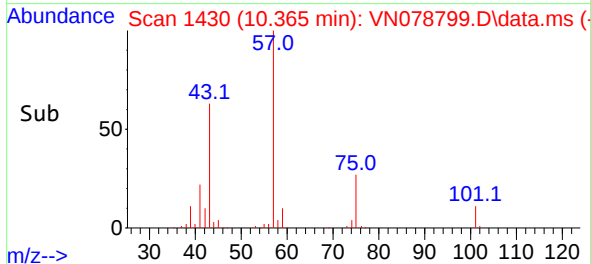
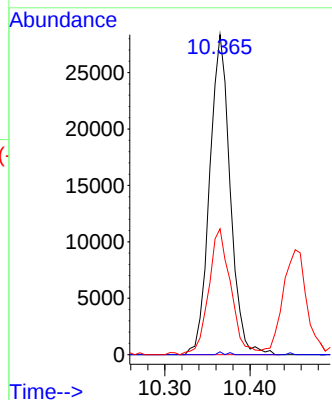
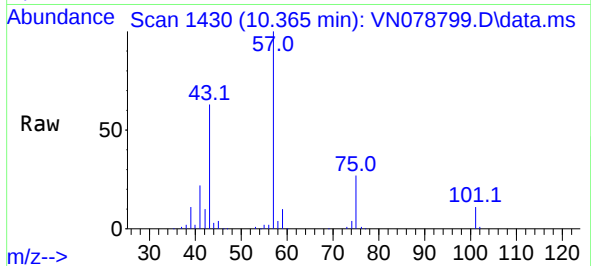




#54
cis-1,3-Dichloropropene
Concen: 10.668 ug/l
RT: 10.365 min Scan# 1422
Delta R.T. 0.047 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

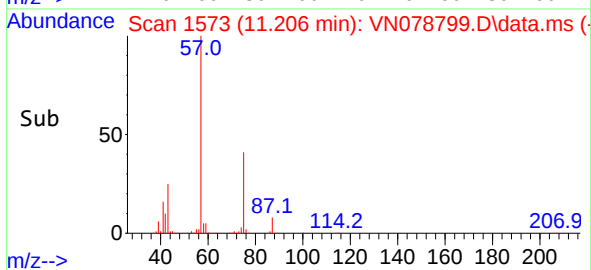
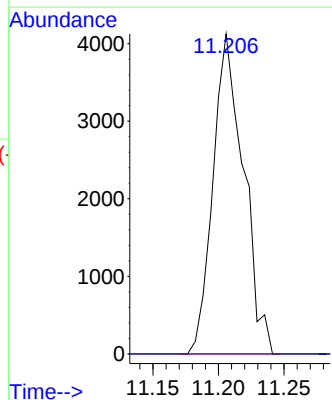
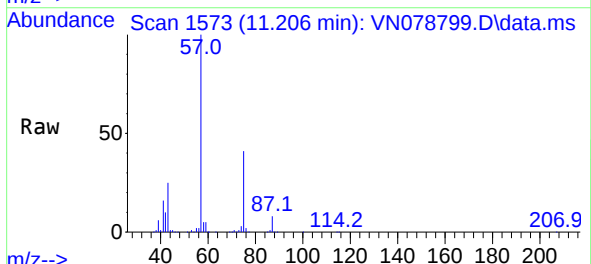
Instrument :
MSVOA_N
ClientSampleId :
TP-38

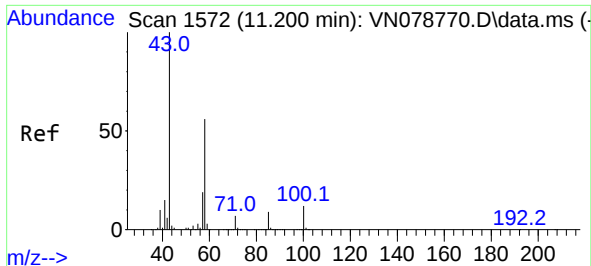
Tgt Ion: 75 Resp: 47547
Ion Ratio Lower Upper
75 100
77 0.9 26.1 39.1#
39 39.4 31.6 47.4



#57
1,3-Dichloropropane
Concen: 1.397 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

Tgt Ion: 76 Resp: 6667
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

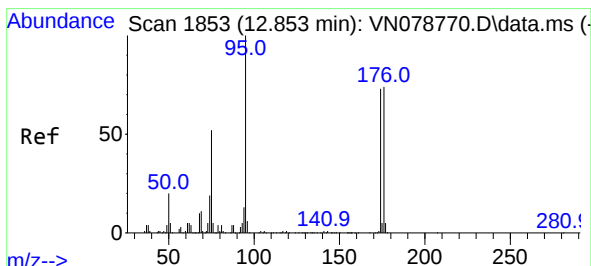
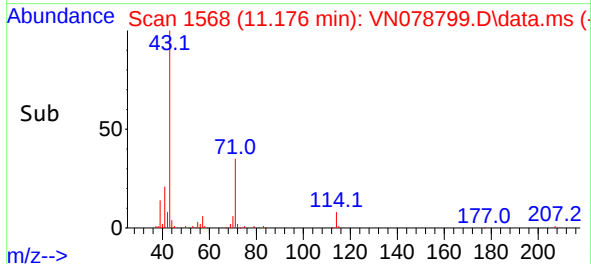
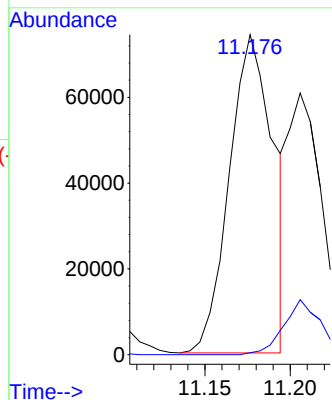
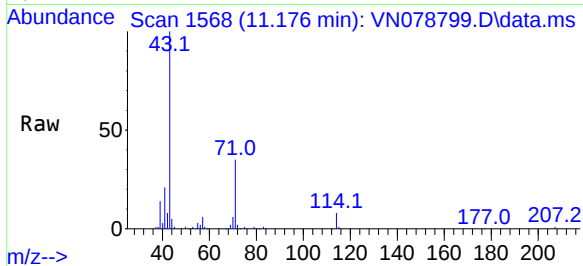




#59
2-Hexanone
Concen: 45.656 ug/l
RT: 11.176 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

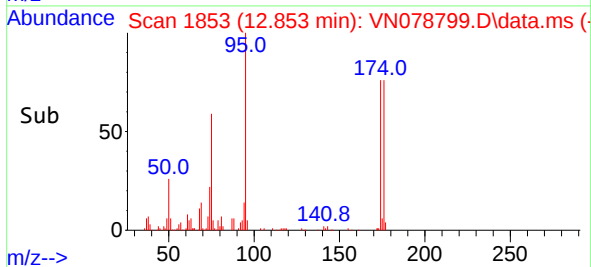
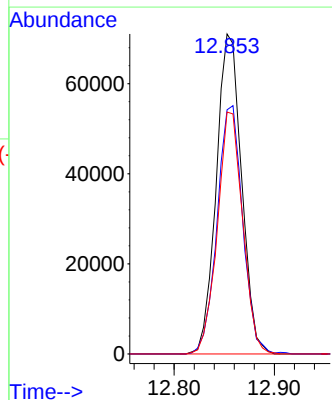
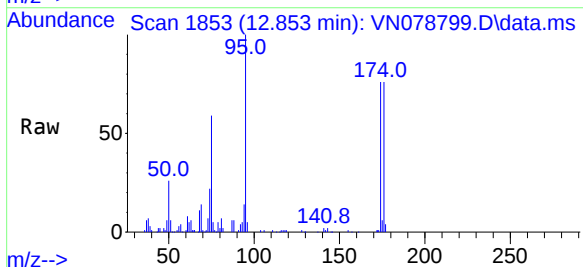
Instrument :
MSVOA_N
ClientSampleId :
TP-38

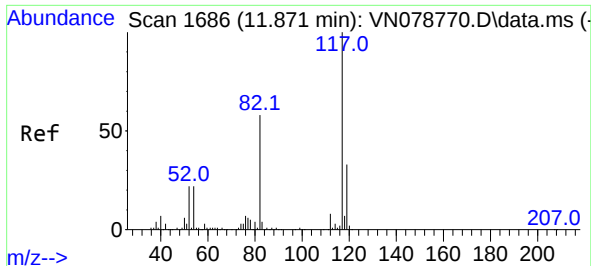
Tgt Ion: 43 Resp: 132681
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 46.922 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

Tgt Ion: 95 Resp: 124332
Ion Ratio Lower Upper
95 100
174 78.4 0.0 143.8
176 75.5 0.0 135.8

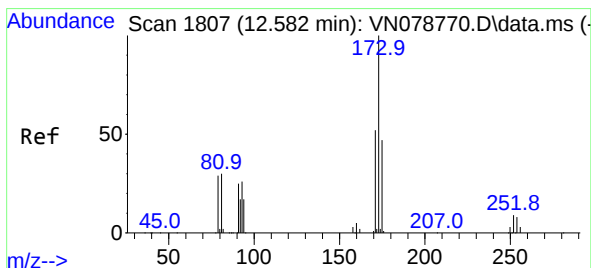
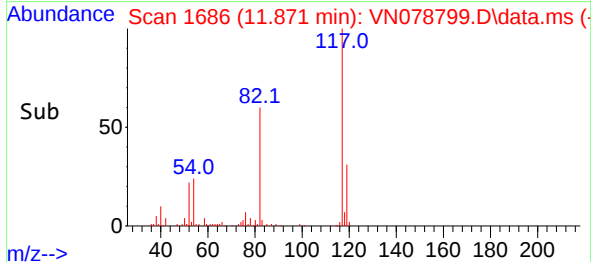
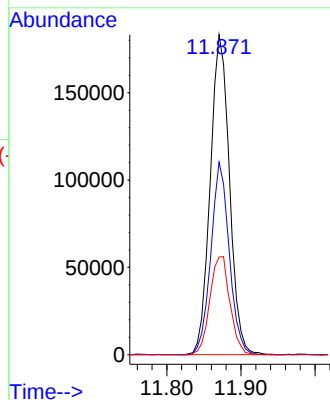
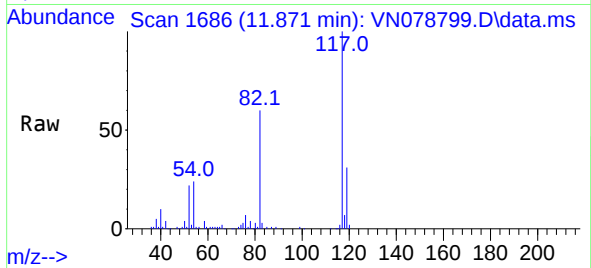




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

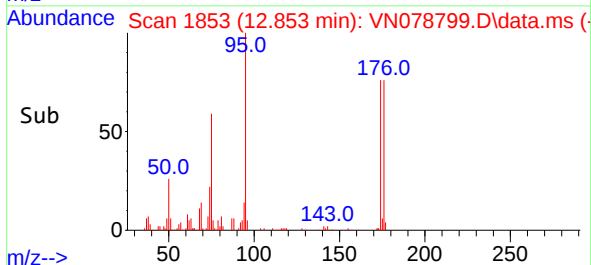
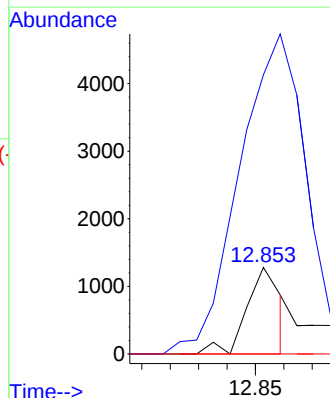
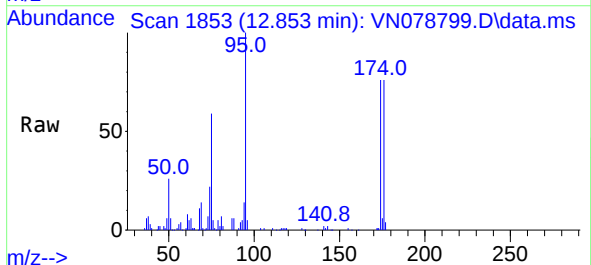
Instrument :
MSVOA_N
ClientSampleId :
TP-38

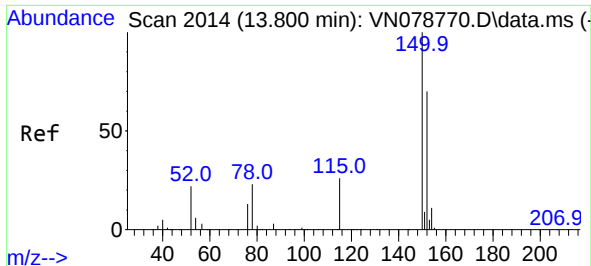
Tgt Ion:117 Resp: 329889
Ion Ratio Lower Upper
117 100
82 60.1 44.0 66.0
119 30.5 25.6 38.4



#71
Bromoform
Concen: 0.525 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.270 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

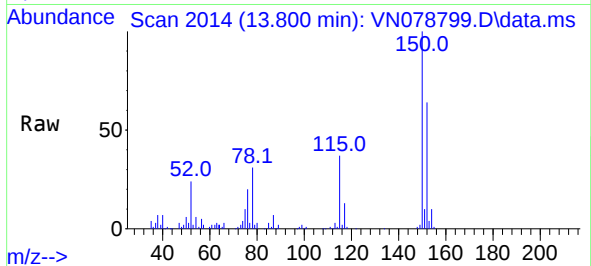
Tgt Ion:173 Resp: 1066
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0



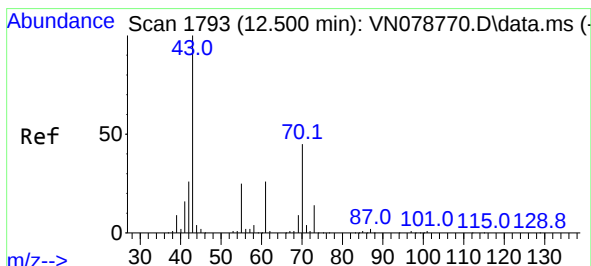
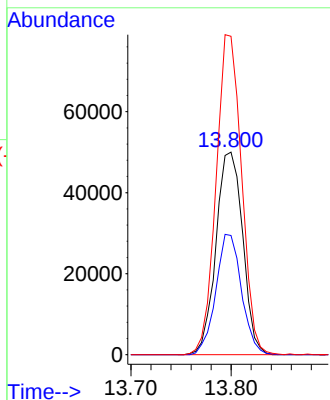
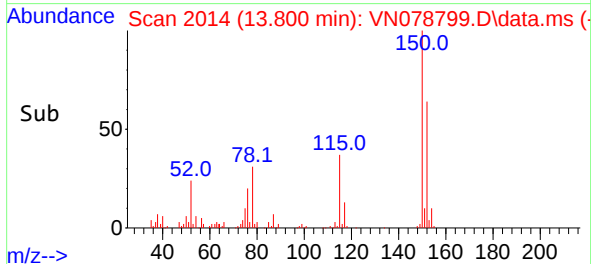


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

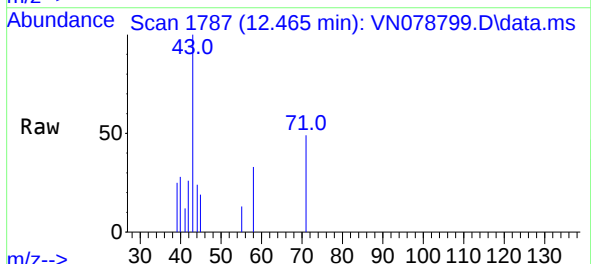
Instrument :
MSVOA_N
ClientSampleId :
TP-38



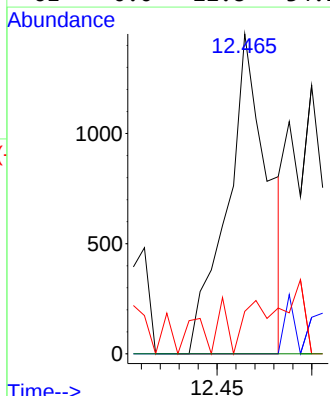
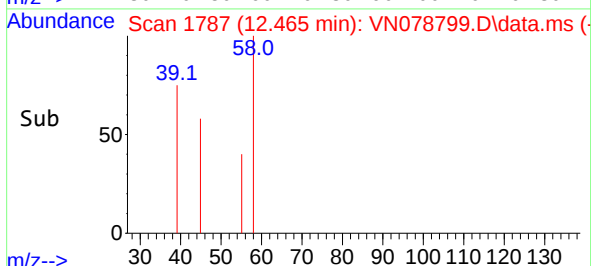
Tgt Ion:152 Resp: 92602
Ion Ratio Lower Upper
152 100
115 57.1 32.3 96.8
150 150.6 0.0 355.8

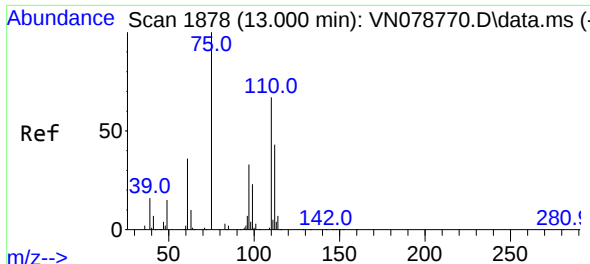


#74
N-ethyl acetate
Concen: 0.522 ug/l
RT: 12.465 min Scan# 1787
Delta R.T. -0.035 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59



Tgt Ion: 43 Resp: 2159
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 9.7 21.4 32.0#
61 0.0 22.8 34.2#

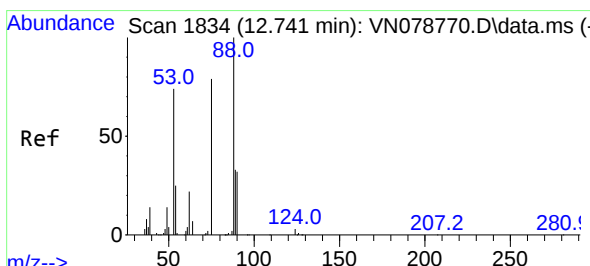
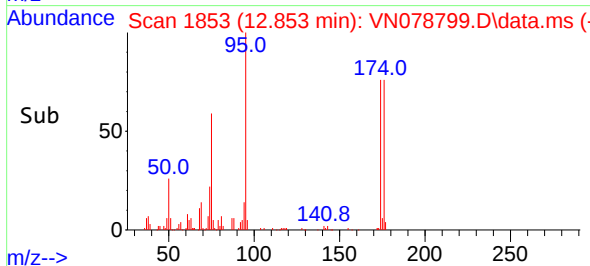
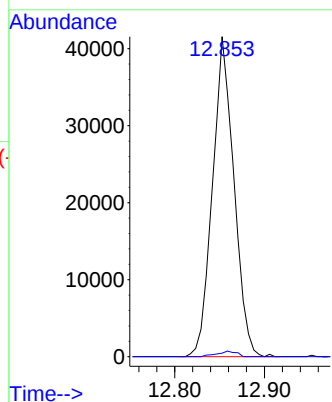
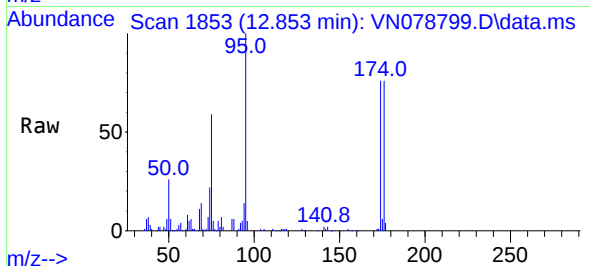




#76
1,2,3-Trichloropropane
Concen: 27.546 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

Instrument :
MSVOA_N
ClientSampleId :
TP-38

Tgt Ion: 75 Resp: 68965
Ion Ratio Lower Upper
75 100
77 1.6 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.915 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078799.D
Acq: 08 Aug 2023 13:59

Tgt Ion: 75 Resp: 68965
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#

