

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
 Data File : VN085867.D
 Acq On : 26 Feb 2025 13:31
 Operator : JC\MD
 Sample : Q1426-01 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 50453

Quant Time: Feb 26 22:57:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	264677	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	480335	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	415764	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	163413	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	190102	55.400	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	110.800%
35) Dibromofluoromethane	8.165	113	170153	54.136	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	108.280%
50) Toluene-d8	10.565	98	569623	49.812	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.620%
62) 4-Bromofluorobenzene	12.847	95	173046	45.928	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	91.860%

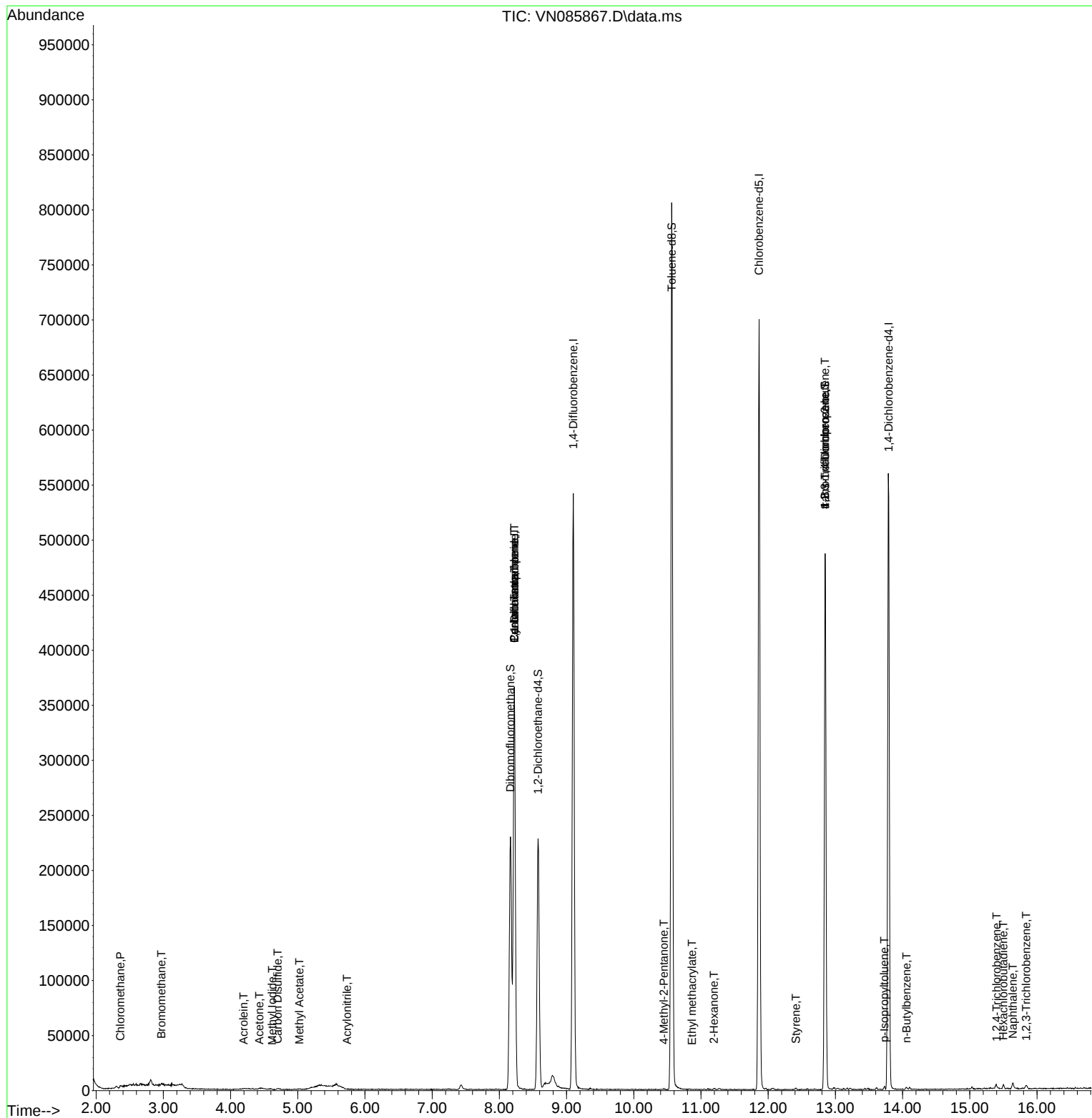
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.359	50	894	0.247	ug/l	94
5) Bromomethane	2.971	94	978	0.400	ug/l	94
10) Methyl Iodide	4.618	142	945	0.239	ug/l #	38
13) Acrolein	4.195	56	196	0.313	ug/l #	57
15) Acrylonitrile	5.736	53	288	0.210	ug/l #	32
16) Acetone	4.430	43	731	0.673	ug/l #	40
17) Carbon Disulfide	4.700	76	2253	0.262	ug/l #	75
18) Methyl Acetate	5.024	43	850	0.228	ug/l #	59
31) Cyclohexane	8.224	56	5288	1.079	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	21307	4.790	ug/l #	49
38) Carbon Tetrachloride	8.224	117	26409	4.997	ug/l #	18
43) Isopropyl Acetate	8.700	43	440	Below Cal	#	53
51) 4-Methyl-2-Pentanone	10.447	43	797	0.226	ug/l #	33
56) Ethyl methacrylate	10.865	69	57	0.473	ug/l #	30
59) 2-Hexanone	11.194	43	914	0.376	ug/l	70
70) Styrene	12.412	104	686	0.659	ug/l #	52
76) 1,2,3-Trichloropropane	12.847	75	86461	23.819	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	86461	69.497	ug/l #	13
86) p-Isopropyltoluene	13.729	119	835	0.715	ug/l #	75
89) n-Butylbenzene	14.059	91	1747	0.227	ug/l	87
93) 1,2,4-Trichlorobenzene	15.400	180	1390	0.535	ug/l	99
94) Hexachlorobutadiene	15.500	225	1006	0.637	ug/l	93
95) Naphthalene	15.641	128	5939	0.833	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.841	180	1778	0.682	ug/l	99

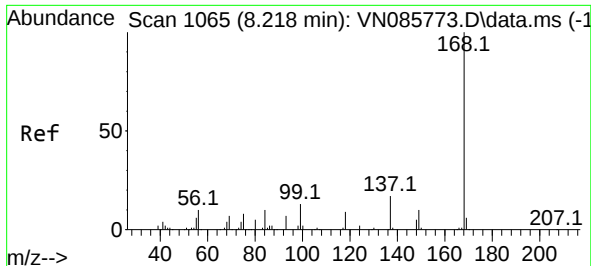
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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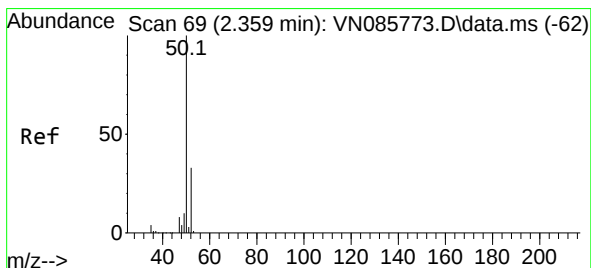
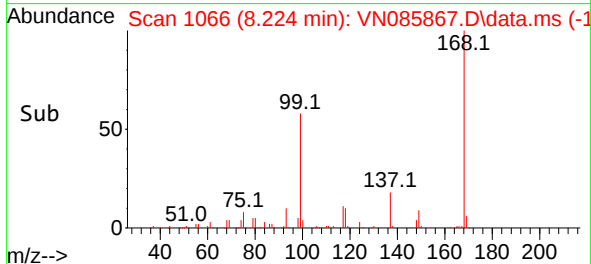
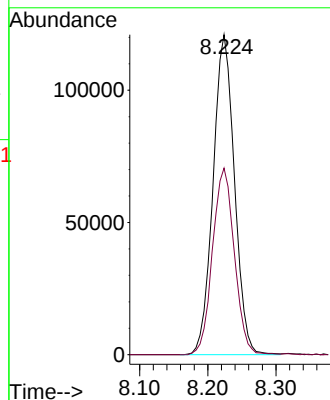
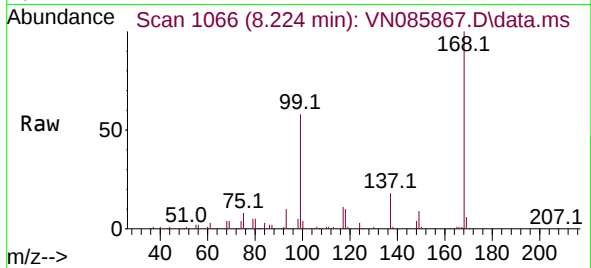




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

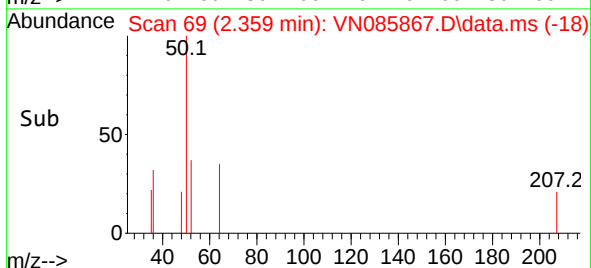
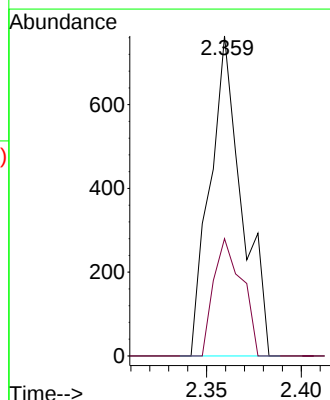
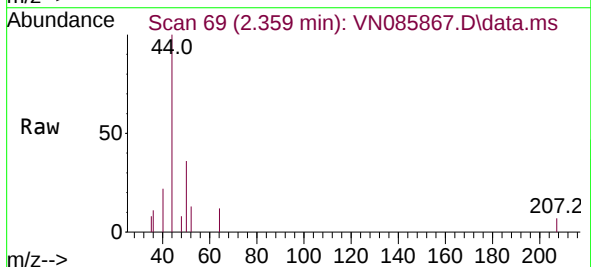
Instrument :
MSVOA_N
ClientSampleId :
50453

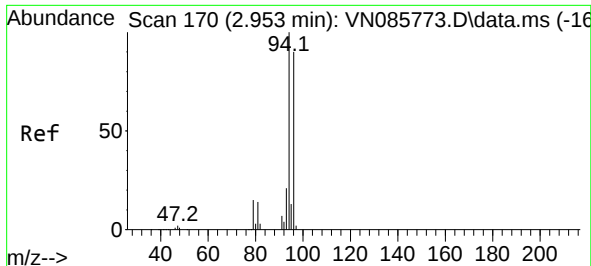
Tgt Ion:168 Resp: 264677
Ion Ratio Lower Upper
168 100
99 58.3 47.9 71.9



#3
Chloromethane
Concen: 0.247 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

Tgt Ion: 50 Resp: 894
Ion Ratio Lower Upper
50 100
52 36.6 26.7 40.1

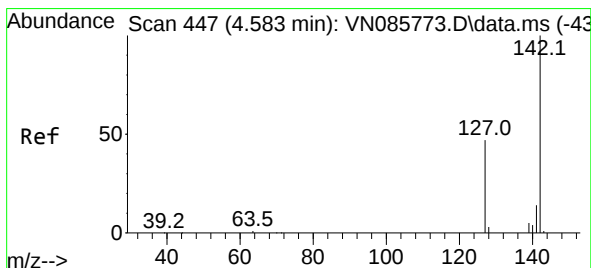
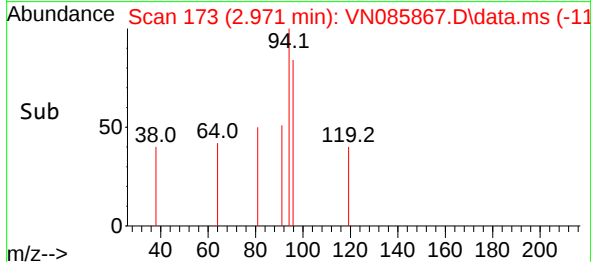
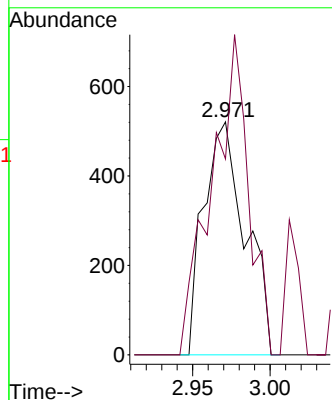
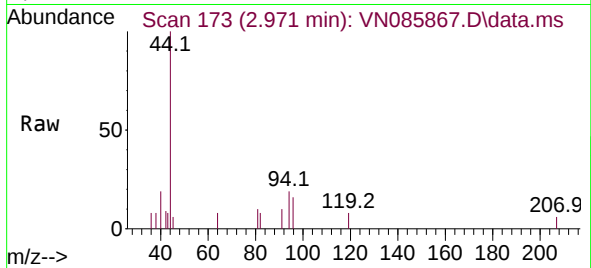




#5
Bromomethane
Concen: 0.400 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

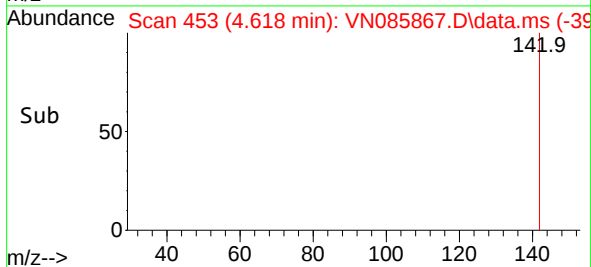
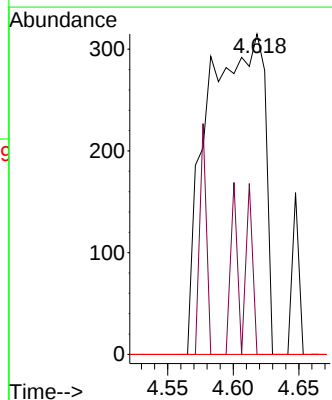
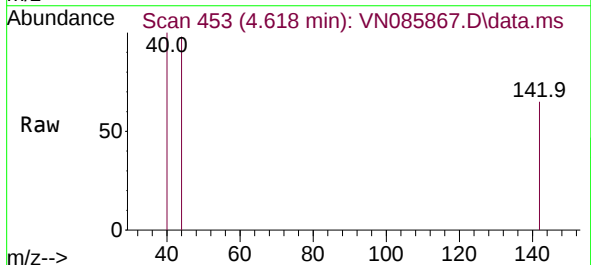
Instrument :
MSVOA_N
ClientSampleId :
50453

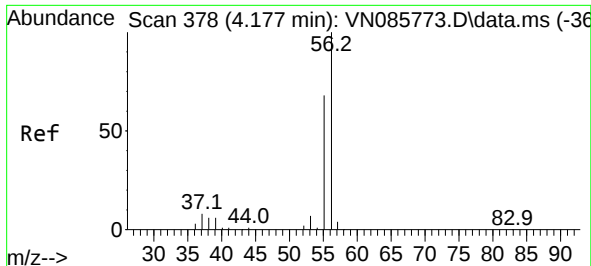
Tgt Ion: 94 Resp: 978
Ion Ratio Lower Upper
94 100
96 84.1 71.7 107.5



#10
Methyl Iodide
Concen: 0.239 ug/l
RT: 4.618 min Scan# 453
Delta R.T. 0.035 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

Tgt Ion: 142 Resp: 945
Ion Ratio Lower Upper
142 100
127 0.0 37.6 56.4#
141 0.0 11.4 17.2#

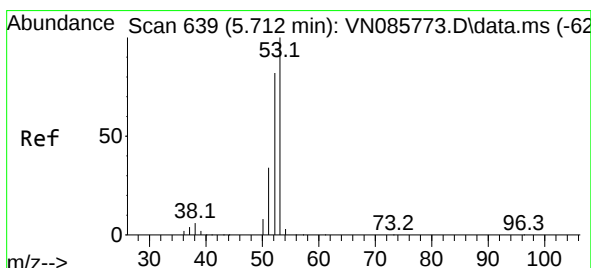
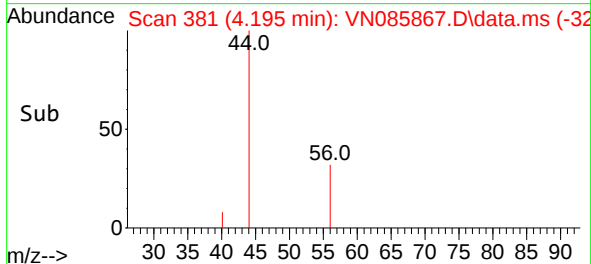
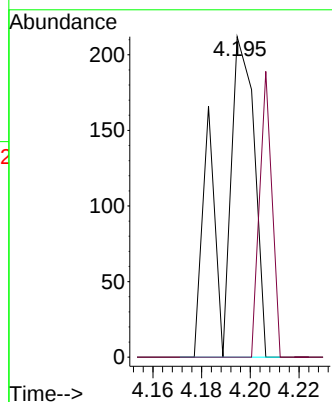
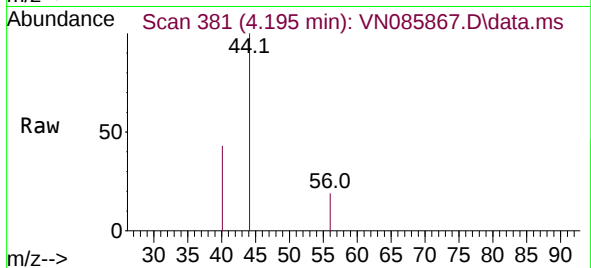




#13
Acrolein
Concen: 0.313 ug/l
RT: 4.195 min Scan# 31
Delta R.T. 0.018 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

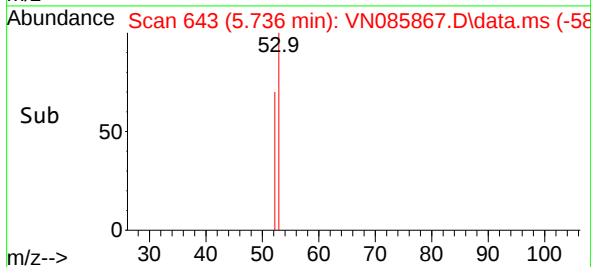
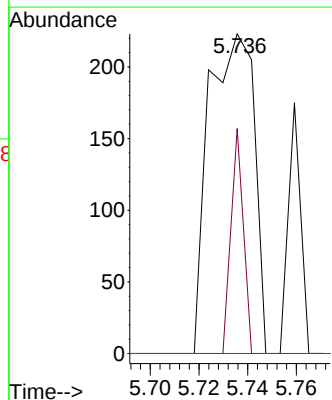
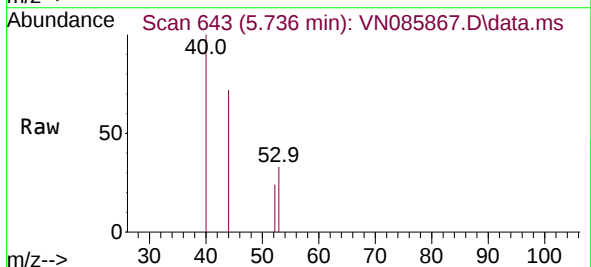
Instrument :
MSVOA_N
ClientSampleId :
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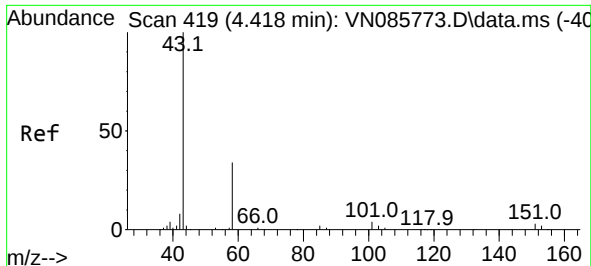
Tgt Ion: 56 Resp: 196
Ion Ratio Lower Upper
56 100
55 34.2 55.3 82.9#



#15
Acrylonitrile
Concen: 0.210 ug/l
RT: 5.736 min Scan# 643
Delta R.T. 0.024 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

Tgt Ion: 53 Resp: 288
Ion Ratio Lower Upper
53 100
52 19.1 65.8 98.6#
51 0.0 28.6 42.8#

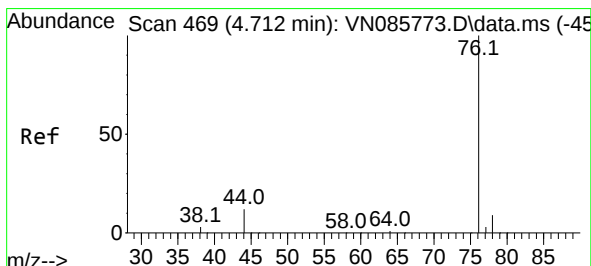
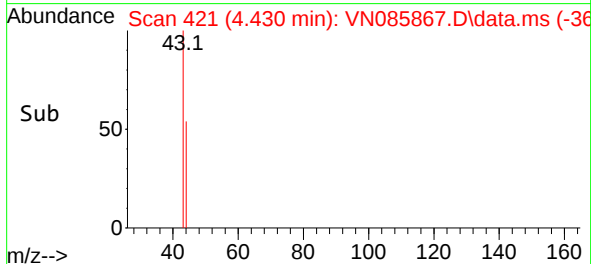
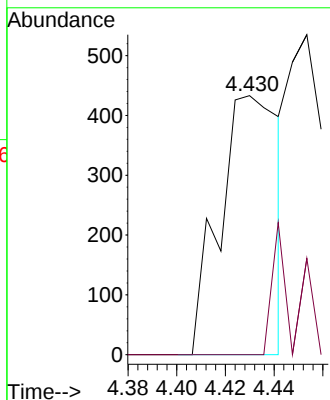
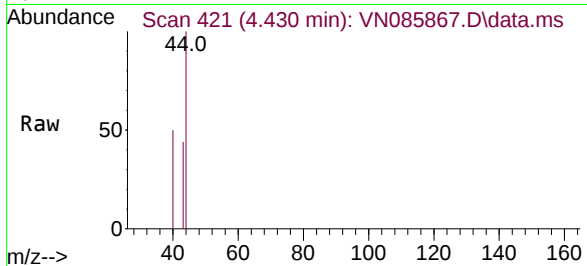




#16
Acetone
Concen: 0.673 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

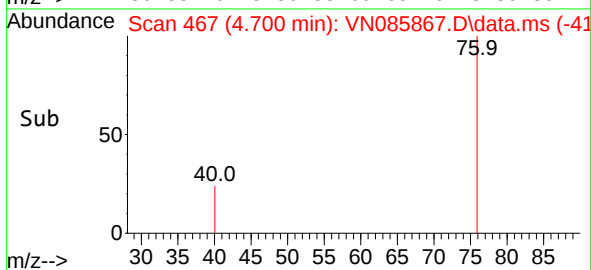
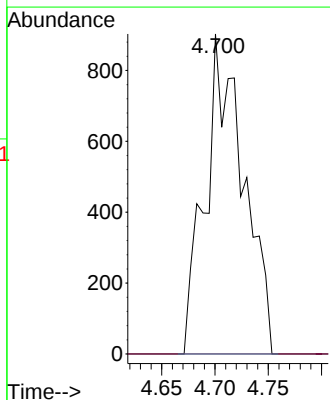
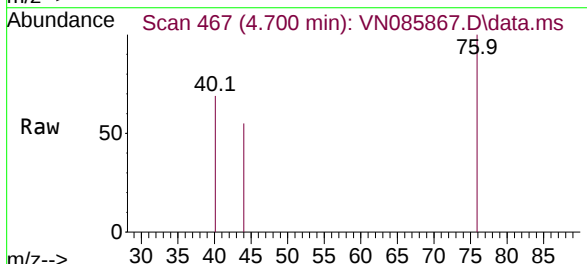
Instrument :
MSVOA_N
ClientSampleId :
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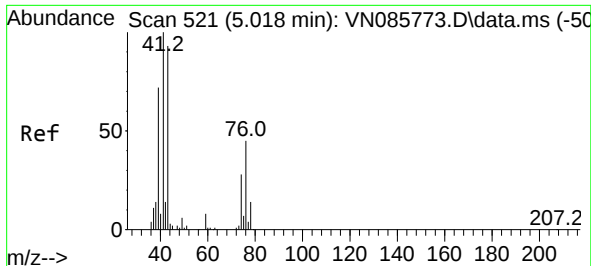
Tgt Ion: 43 Resp: 731
Ion Ratio Lower Upper
43 100
58 0.0 27.5 41.3#



#17
Carbon Disulfide
Concen: 0.262 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.012 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

Tgt Ion: 76 Resp: 2253
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#





#18

Methyl Acetate

Concen: 0.228 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN085867.D

Acq: 26 Feb 2025 13:31

Instrument :

MSVOA_N

ClientSampleId :

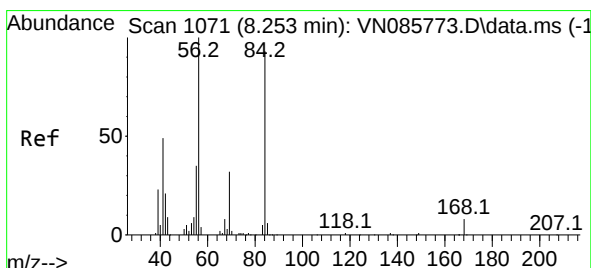
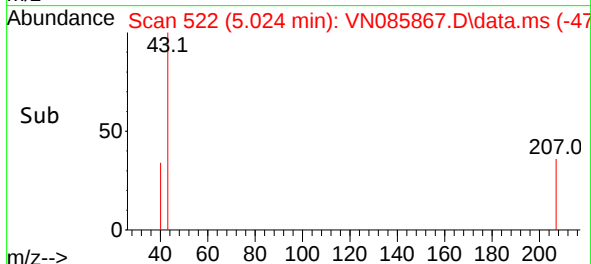
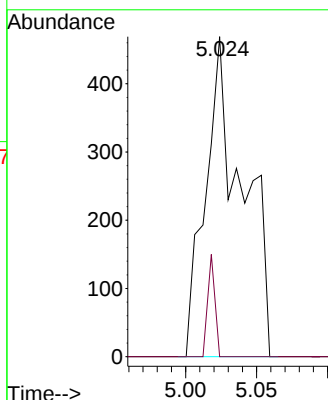
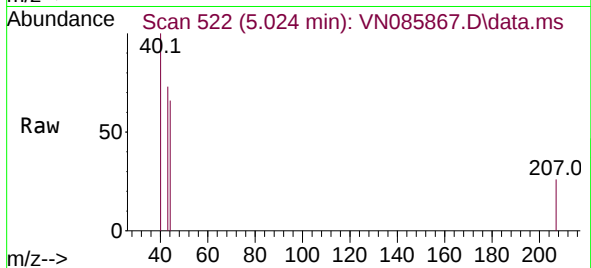
50453

Tgt Ion: 43 Resp: 850

Ion Ratio Lower Upper

43 100

74 6.2 22.2 33.4#



#31

Cyclohexane

Concen: 1.079 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

Lab File: VN085867.D

Acq: 26 Feb 2025 13:31

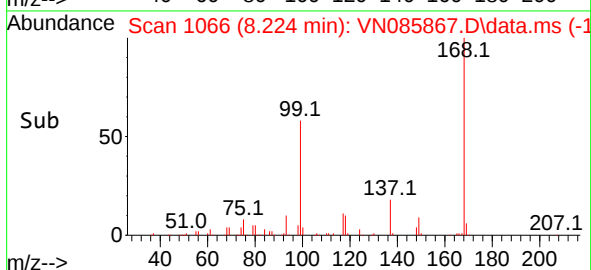
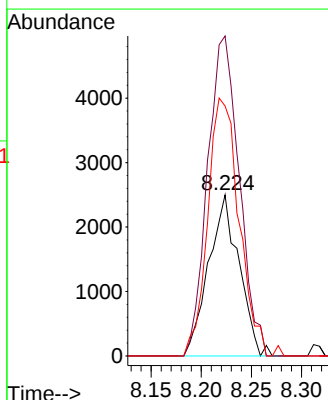
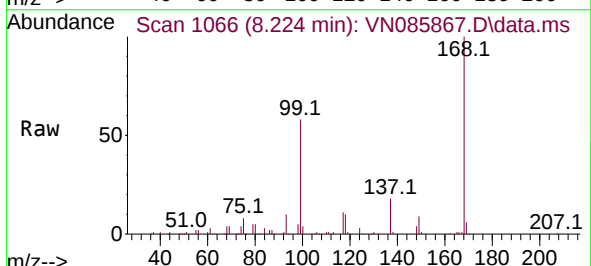
Tgt Ion: 56 Resp: 5288

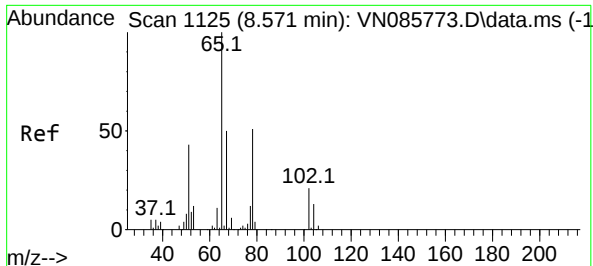
Ion Ratio Lower Upper

56 100

69 198.6 25.8 38.6#

84 155.1 74.5 111.7#





#33

1,2-Dichloroethane-d4

Concen: 55.400 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085867.D

Acq: 26 Feb 2025 13:31

Instrument :

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ClientSampleId :

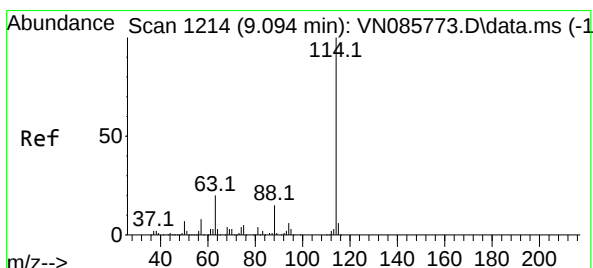
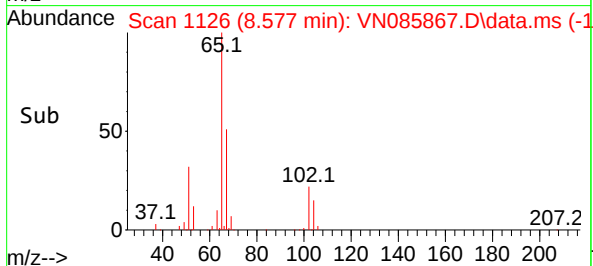
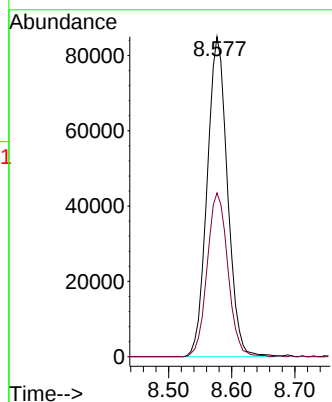
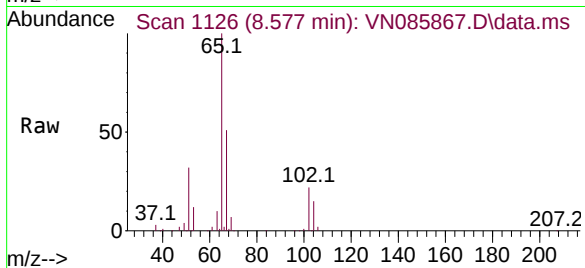
50453

Tgt Ion: 65 Resp: 190102

Ion Ratio Lower Upper

65 100

67 52.1 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085867.D

Acq: 26 Feb 2025 13:31

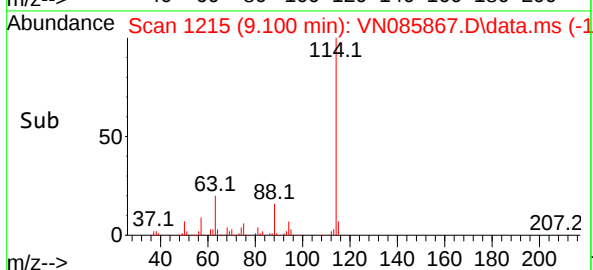
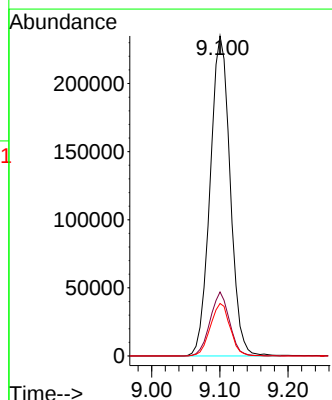
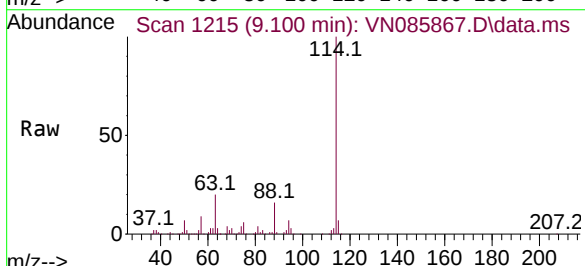
Tgt Ion: 114 Resp: 480335

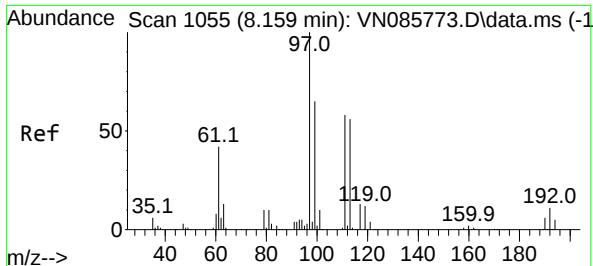
Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.2

88 16.4 0.0 30.0





#35

Dibromofluoromethane

Concen: 54.136 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085867.D

Acq: 26 Feb 2025 13:31

Instrument :

MSVOA_N

ClientSampleId :

50453

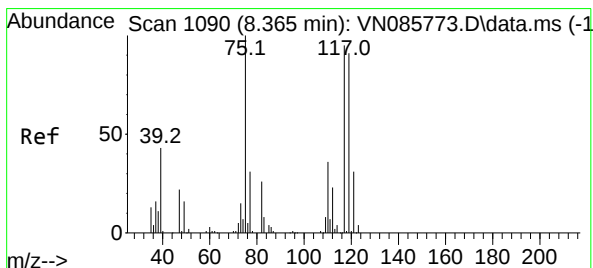
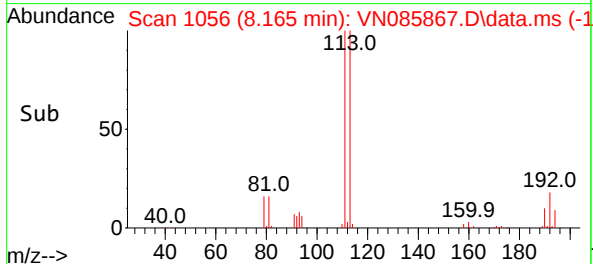
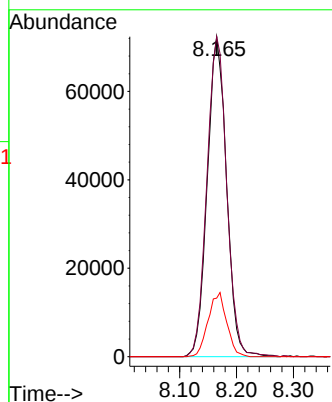
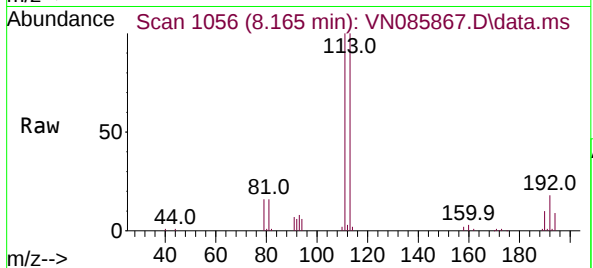
Tgt Ion:113 Resp: 170153

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.4

192 19.3 14.7 22.1



#36

1,1-Dichloropropene

Concen: 4.790 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085867.D

Acq: 26 Feb 2025 13:31

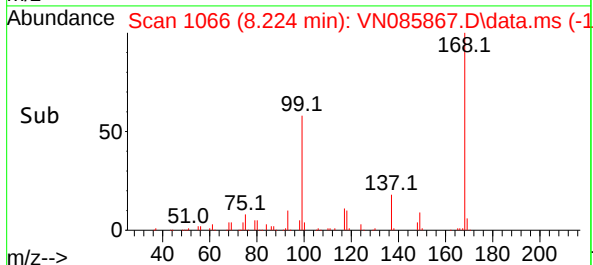
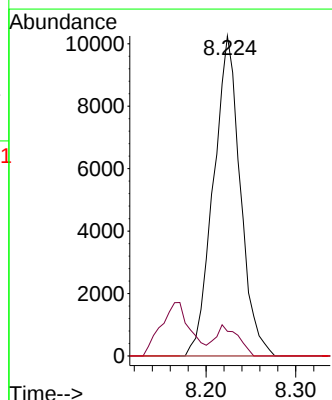
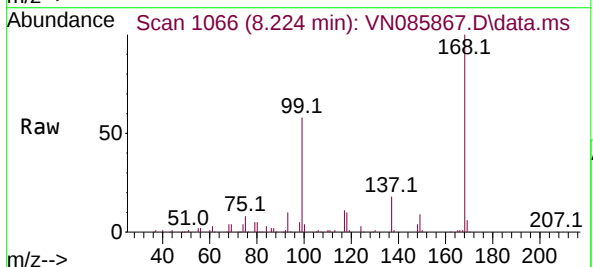
Tgt Ion: 75 Resp: 21307

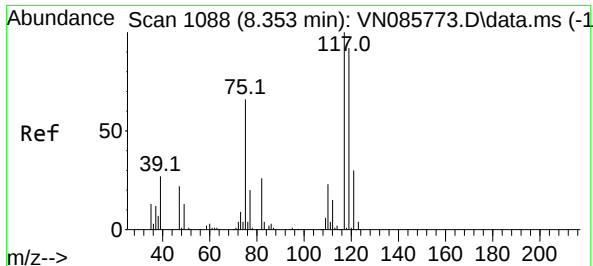
Ion Ratio Lower Upper

75 100

110 8.2 17.3 52.0#

77 0.0 24.6 37.0#

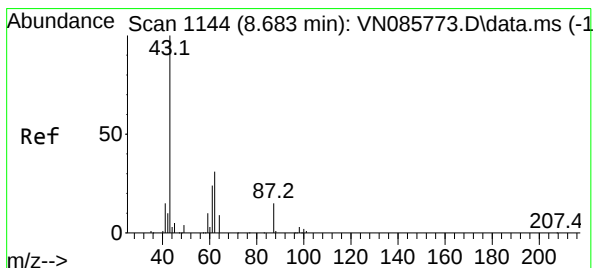
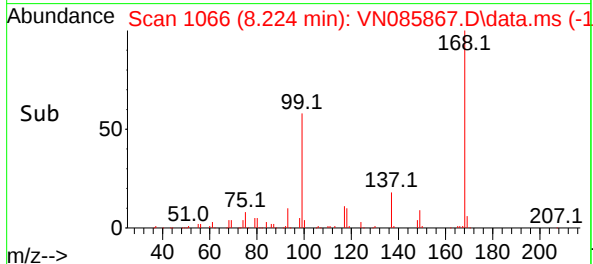
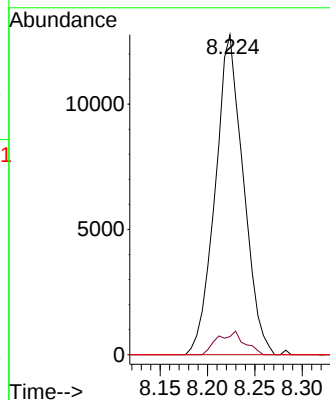
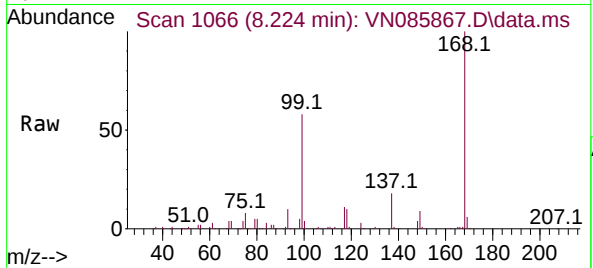




#38
Carbon Tetrachloride
Concen: 4.997 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.129 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

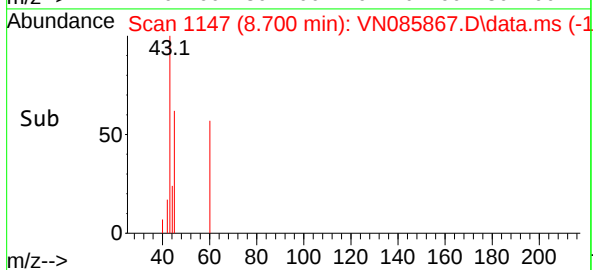
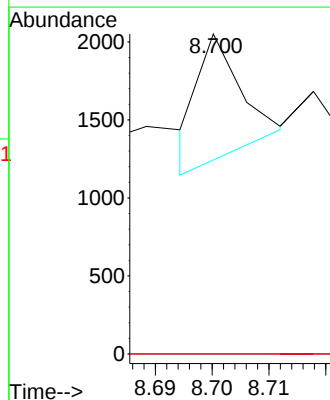
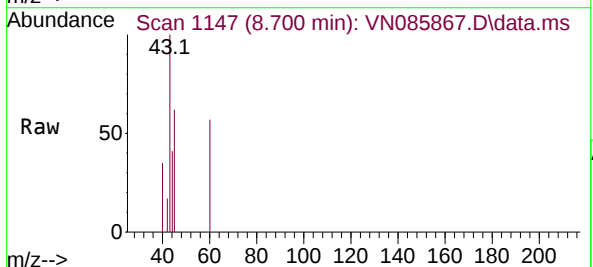
Instrument :
MSVOA_N
ClientSampleId :
50453

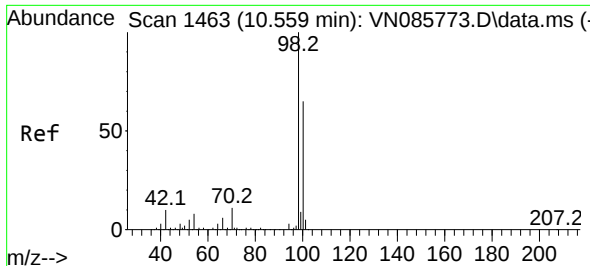
Tgt Ion:117 Resp: 26409
Ion Ratio Lower Upper
117 100
119 5.7 73.8 110.6#
121 0.0 24.3 36.5#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 8.700 min Scan# 1147
Delta R.T. 0.017 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

Tgt Ion: 43 Resp: 440
Ion Ratio Lower Upper
43 100
61 0.0 22.6 34.0#
87 0.0 11.8 17.8#

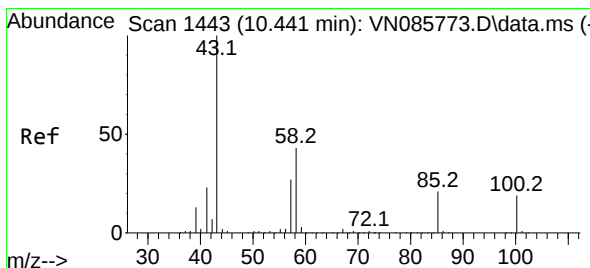
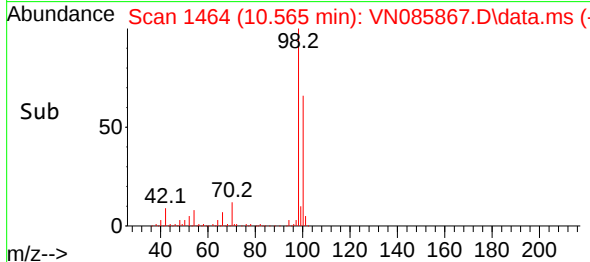
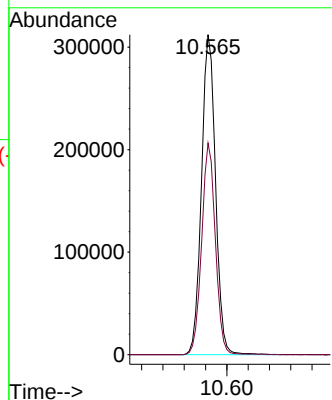
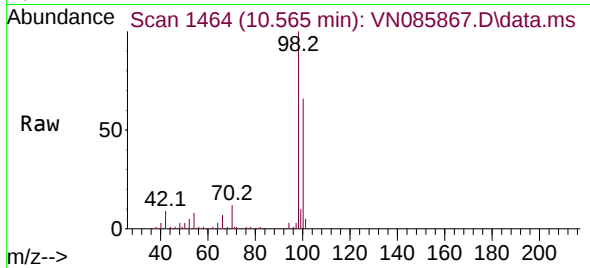




#50
Toluene-d8
Concen: 49.812 ug/l
RT: 10.565 min Scan# 1463
Delta R.T. 0.006 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

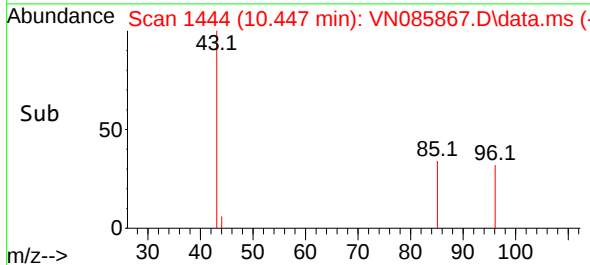
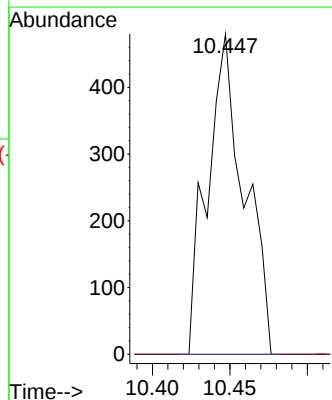
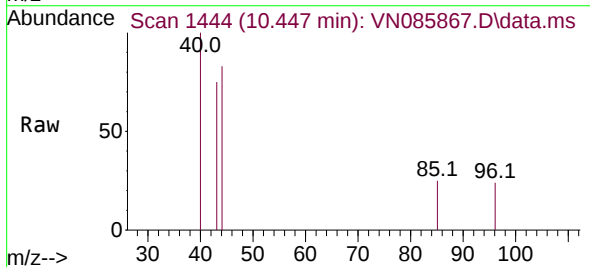
Instrument :
MSVOA_N
ClientSampleId :
50453

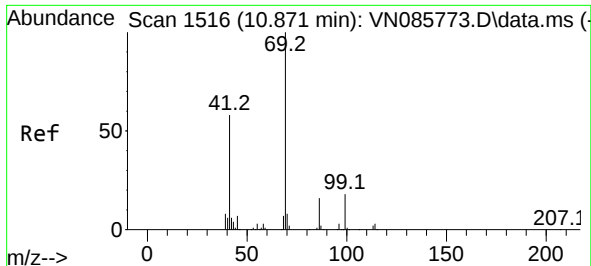
Tgt Ion: 98 Resp: 569623
Ion Ratio Lower Upper
98 100
100 64.7 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 0.226 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

Tgt Ion: 43 Resp: 797
Ion Ratio Lower Upper
43 100
58 0.0 34.6 52.0#

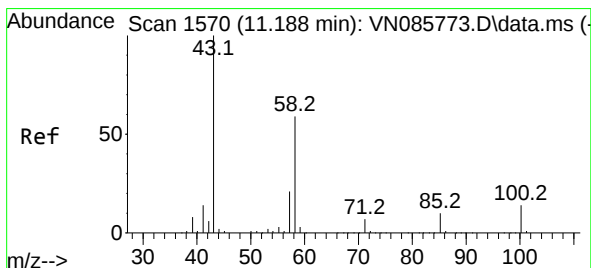
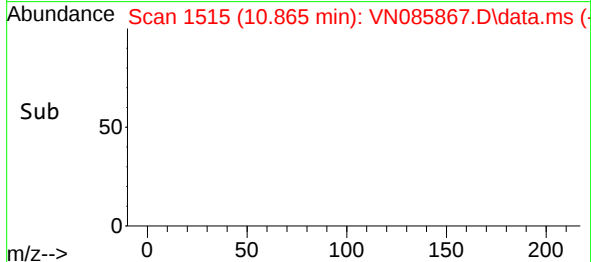
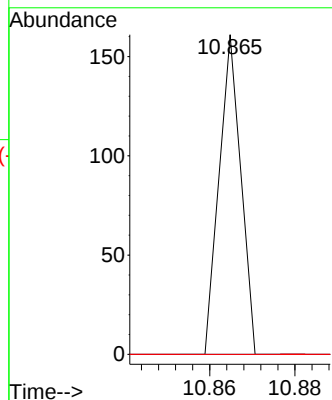
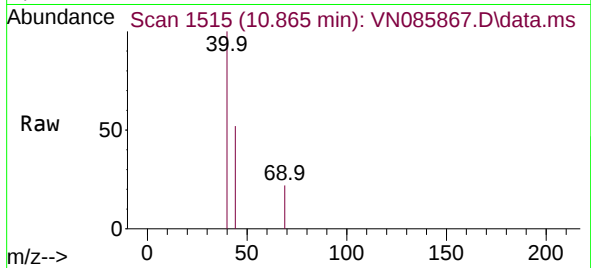




#56
Ethyl methacrylate
Concen: 0.473 ug/l
RT: 10.865 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

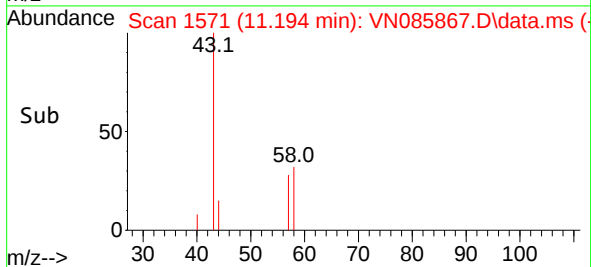
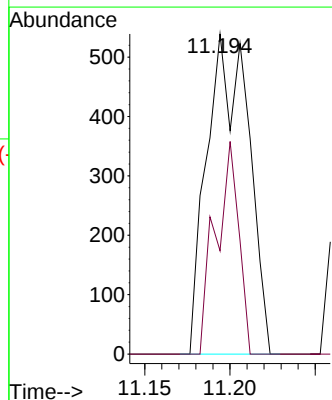
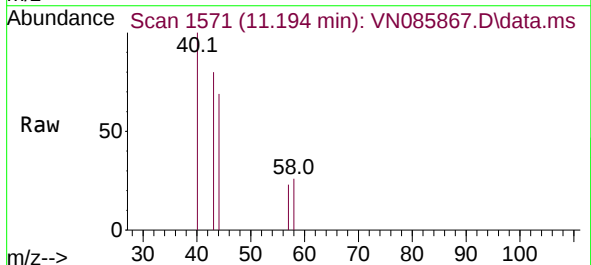
Instrument :
MSVOA_N
ClientSampleId :
50453

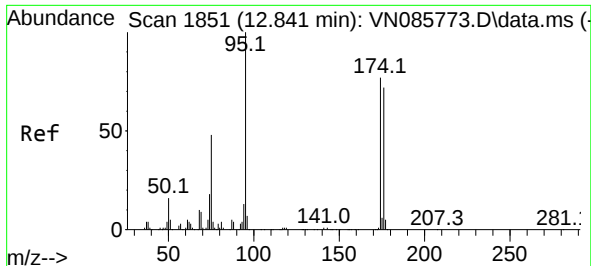
Tgt Ion: 69 Resp: 57
Ion Ratio Lower Upper
69 100
41 0.0 46.0 69.0#
39 0.0 22.0 33.0#



#59
2-Hexanone
Concen: 0.376 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

Tgt Ion: 43 Resp: 914
Ion Ratio Lower Upper
43 100
58 36.9 29.8 89.5

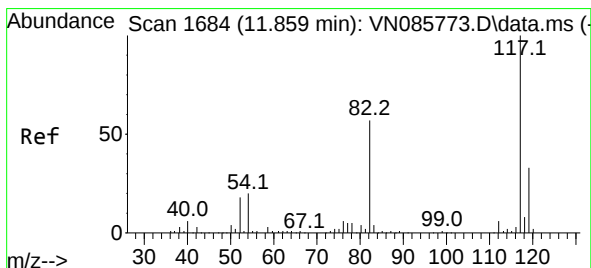
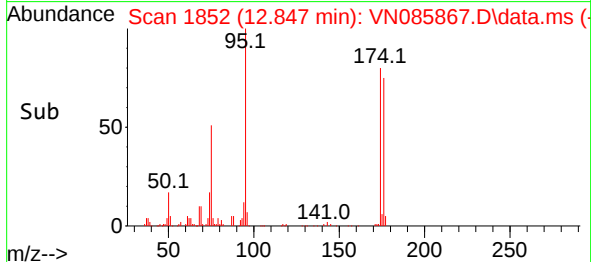
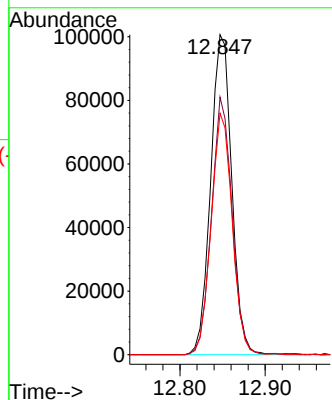
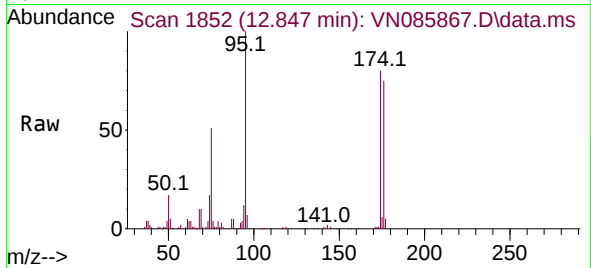




#62
4-Bromofluorobenzene
Concen: 45.928 ug/l
RT: 12.847 min Scan# 1851
Delta R.T. 0.006 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

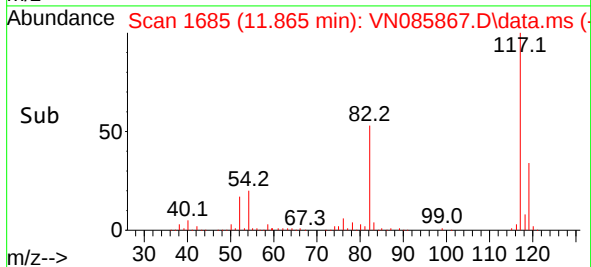
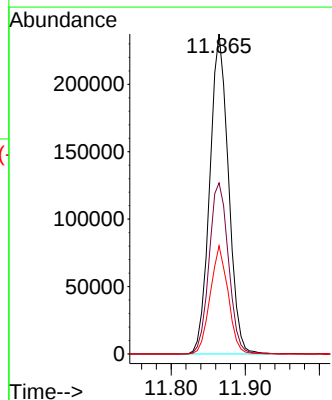
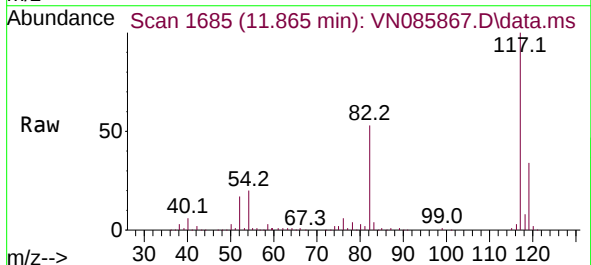
Instrument :
MSVOA_N
ClientSampleId :
50453

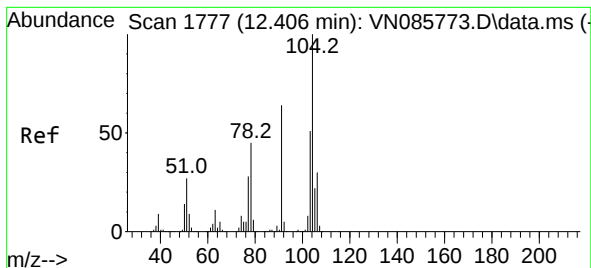
Tgt Ion: 95 Resp: 173046
Ion Ratio Lower Upper
95 100
174 78.6 0.0 152.4
176 75.3 0.0 146.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

Tgt Ion: 117 Resp: 415764
Ion Ratio Lower Upper
117 100
82 53.4 45.7 68.5
119 33.8 26.2 39.2





#70

Styrene

Concen: 0.659 ug/l

RT: 12.412 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085867.D

Acq: 26 Feb 2025 13:31

Instrument :

MSVOA_N

ClientSampleId :

50453

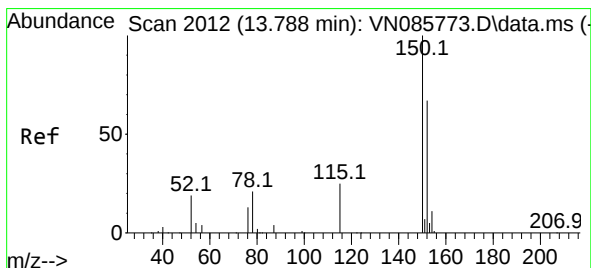
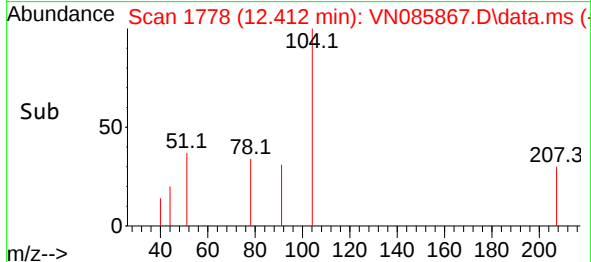
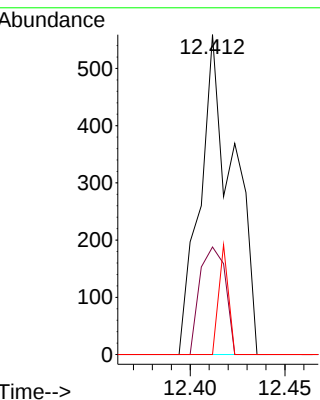
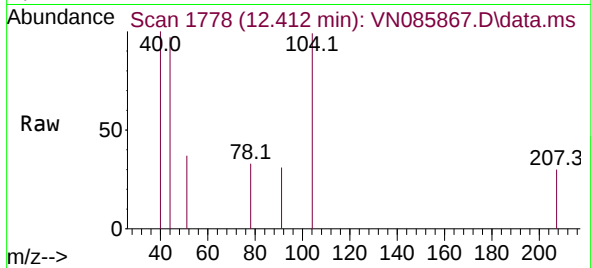
Tgt Ion:104 Resp: 686

Ion Ratio Lower Upper

104 100

78 25.8 39.0 58.6#

103 9.9 43.3 64.9#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.006 min

Lab File: VN085867.D

Acq: 26 Feb 2025 13:31

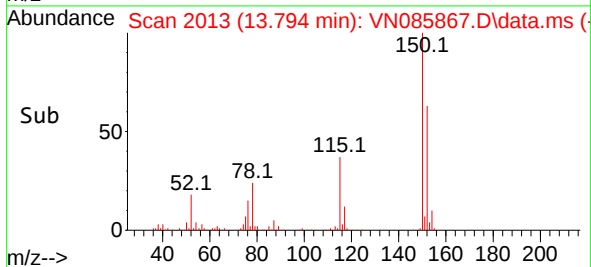
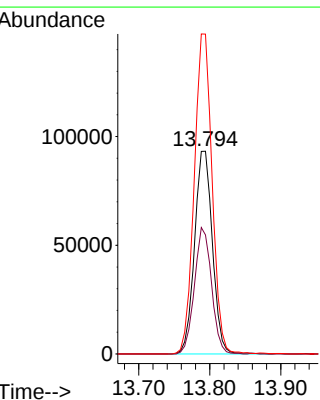
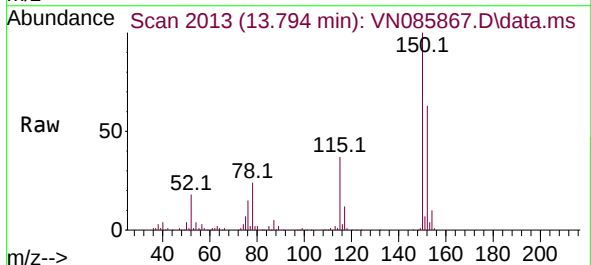
Tgt Ion:152 Resp: 163413

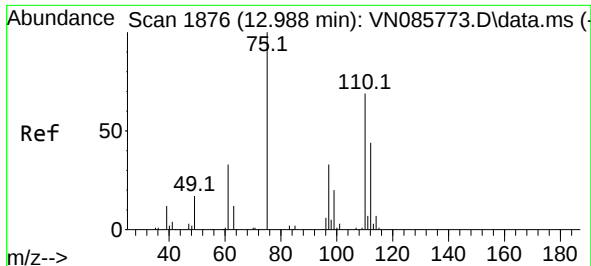
Ion Ratio Lower Upper

152 100

115 59.6 30.4 91.3

150 157.6 0.0 345.4

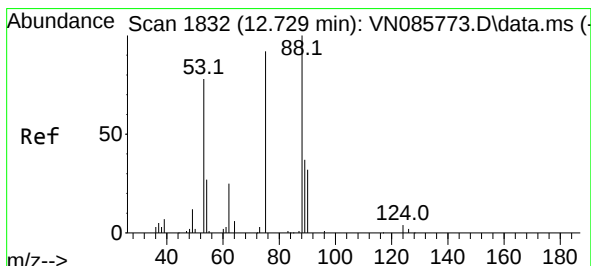
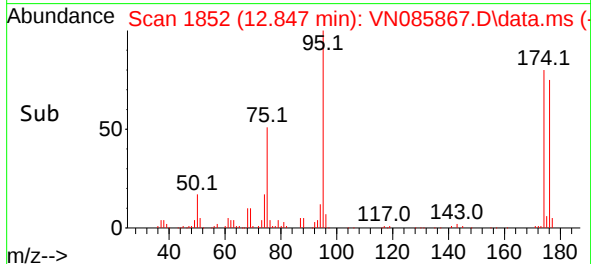
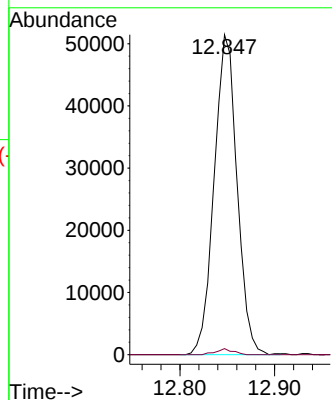
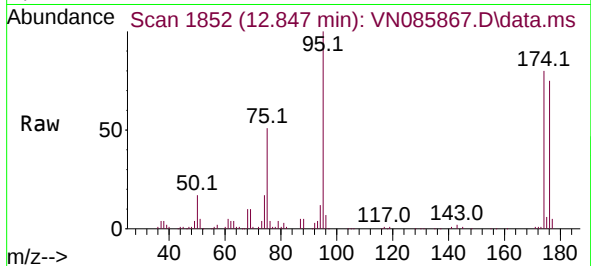




#76
1,2,3-Trichloropropane
Concen: 23.819 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

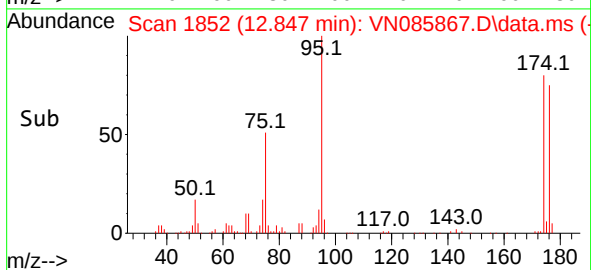
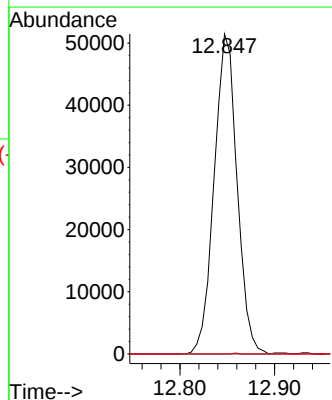
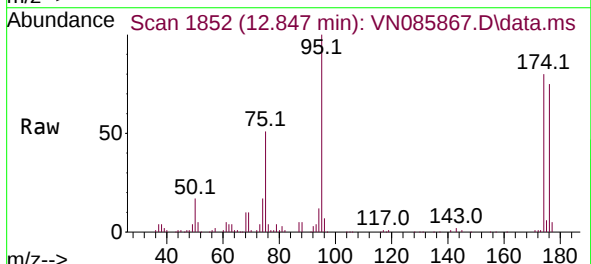
Instrument :
MSVOA_N
ClientSampleId :
50453

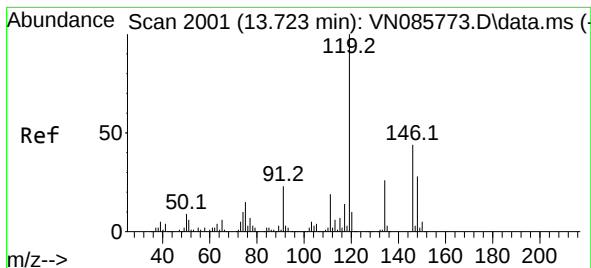
Tgt Ion: 75 Resp: 86461
Ion Ratio Lower Upper
75 100
77 1.4 100.0 300.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 69.497 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.118 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

Tgt Ion: 75 Resp: 86461
Ion Ratio Lower Upper
75 100
53 0.1 74.2 111.4#
89 0.0 34.9 52.3#





#86

p-Isopropyltoluene

Concen: 0.715 ug/l

RT: 13.729 min Scan# 2001

Delta R.T. 0.006 min

Lab File: VN085867.D

Acq: 26 Feb 2025 13:31

Instrument :

MSVOA_N

ClientSampleId :

50453

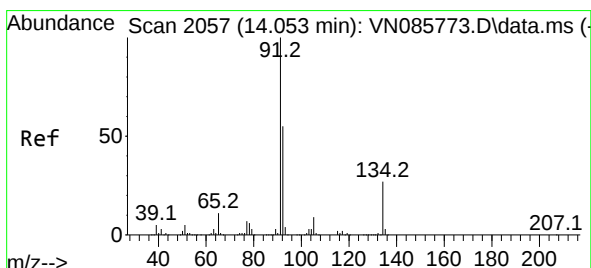
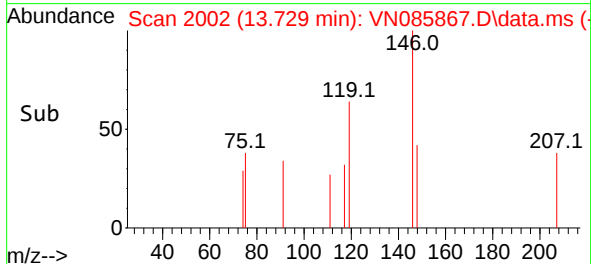
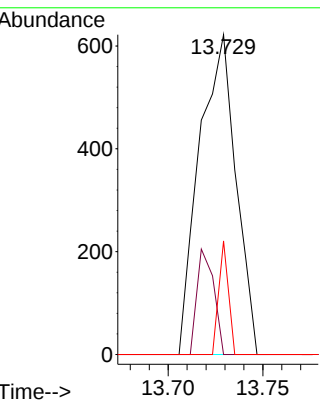
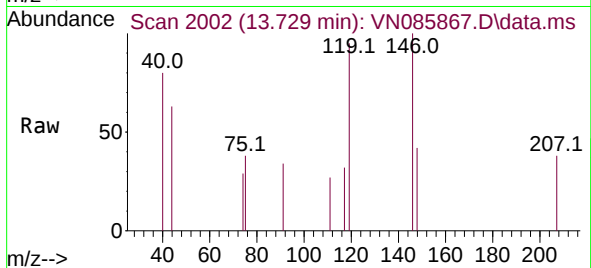
Tgt Ion:119 Resp: 835

Ion Ratio Lower Upper

119 100

134 15.1 13.0 39.0

91 9.3 11.7 35.1#



#89

n-Butylbenzene

Concen: 0.227 ug/l

RT: 14.059 min Scan# 2058

Delta R.T. 0.006 min

Lab File: VN085867.D

Acq: 26 Feb 2025 13:31

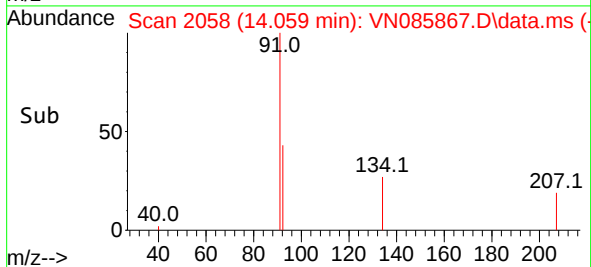
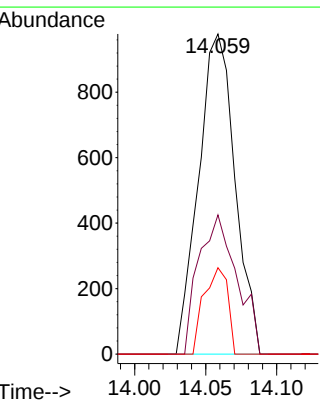
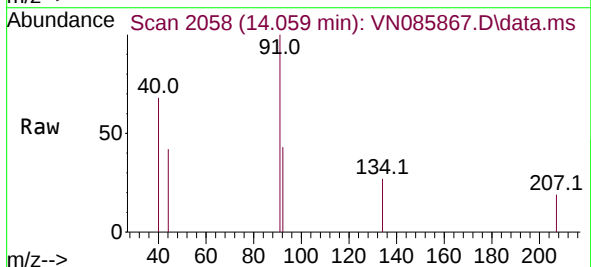
Tgt Ion: 91 Resp: 1747

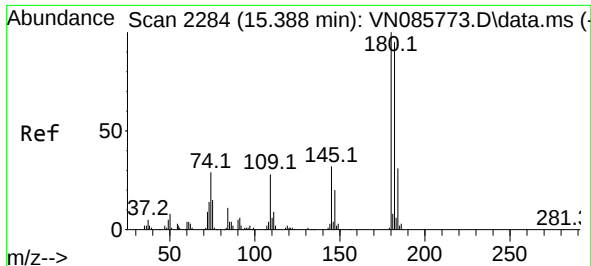
Ion Ratio Lower Upper

91 100

92 45.4 27.1 81.3

134 17.5 12.7 38.1

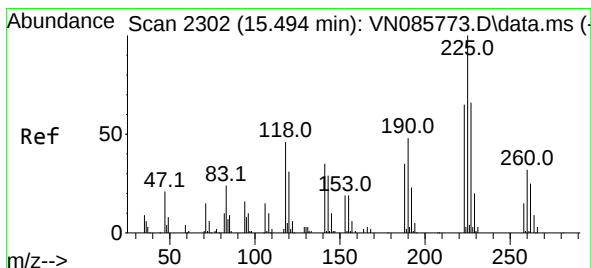
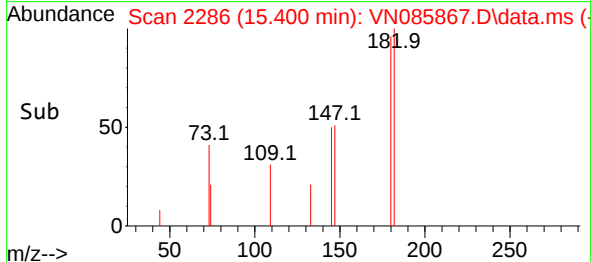
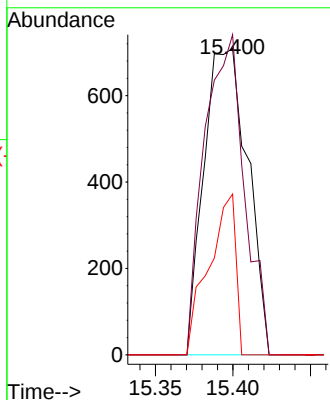
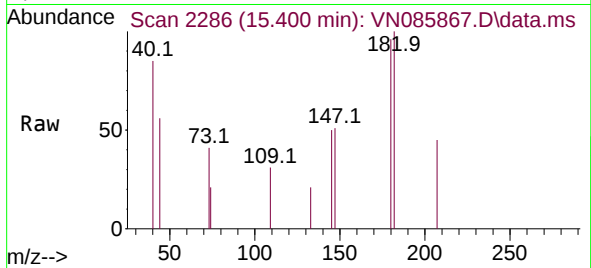




#93
1,2,4-Trichlorobenzene
Concen: 0.535 ug/l
RT: 15.400 min Scan# 21
Delta R.T. 0.012 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

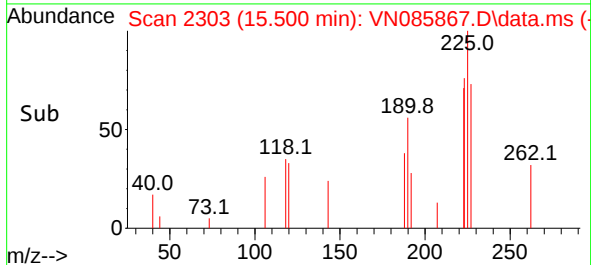
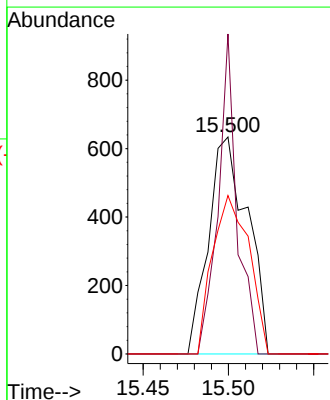
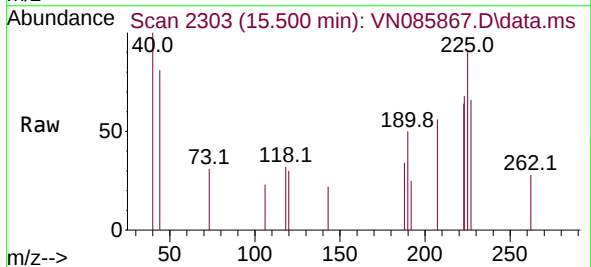
Instrument :
MSVOA_N
ClientSampleId :
50453

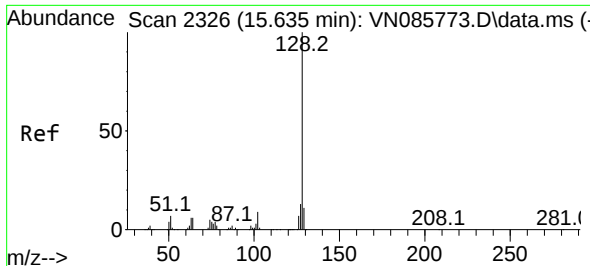
Tgt Ion:180 Resp: 1390
Ion Ratio Lower Upper
180 100
182 95.5 47.3 141.9
145 32.4 16.2 48.5



#94
Hexachlorobutadiene
Concen: 0.637 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.006 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

Tgt Ion:225 Resp: 1006
Ion Ratio Lower Upper
225 100
223 71.2 31.9 95.5
227 68.6 32.2 96.6

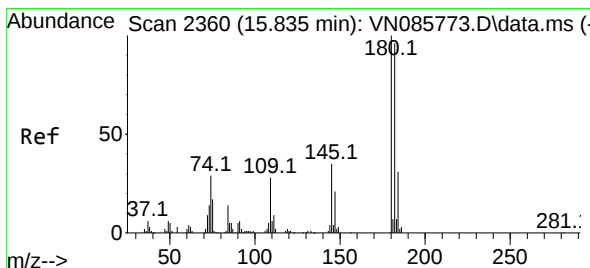
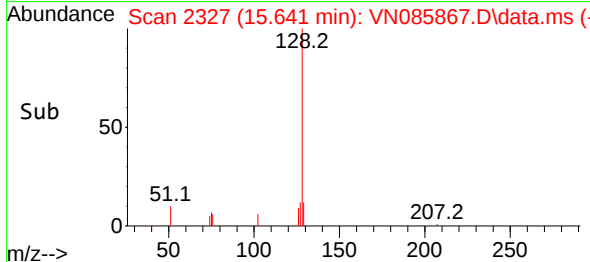
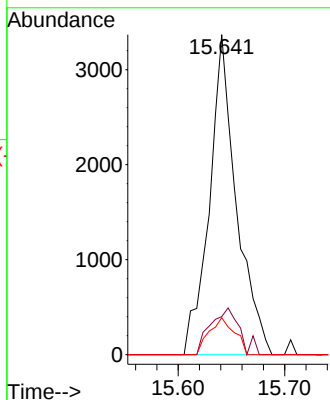
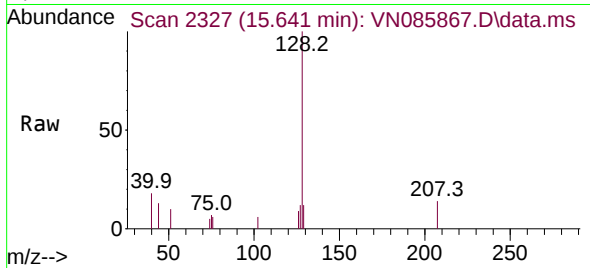




#95
Naphthalene
Concen: 0.833 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

Instrument :
MSVOA_N
ClientSampleId :
50453

Tgt Ion:128 Resp: 5939
Ion Ratio Lower Upper
128 100
127 15.8 10.2 15.2#
129 10.8 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 0.682 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN085867.D
Acq: 26 Feb 2025 13:31

Tgt Ion:180 Resp: 1778
Ion Ratio Lower Upper
180 100
182 94.5 47.3 141.8
145 31.8 16.9 50.6

