

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
 Data File : VN088441.D
 Acq On : 04 Dec 2025 13:31
 Operator : JC\MD
 Sample : Q3768-01ME
 Misc : 4.95g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 20071

Quant Time: Dec 05 00:13:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

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

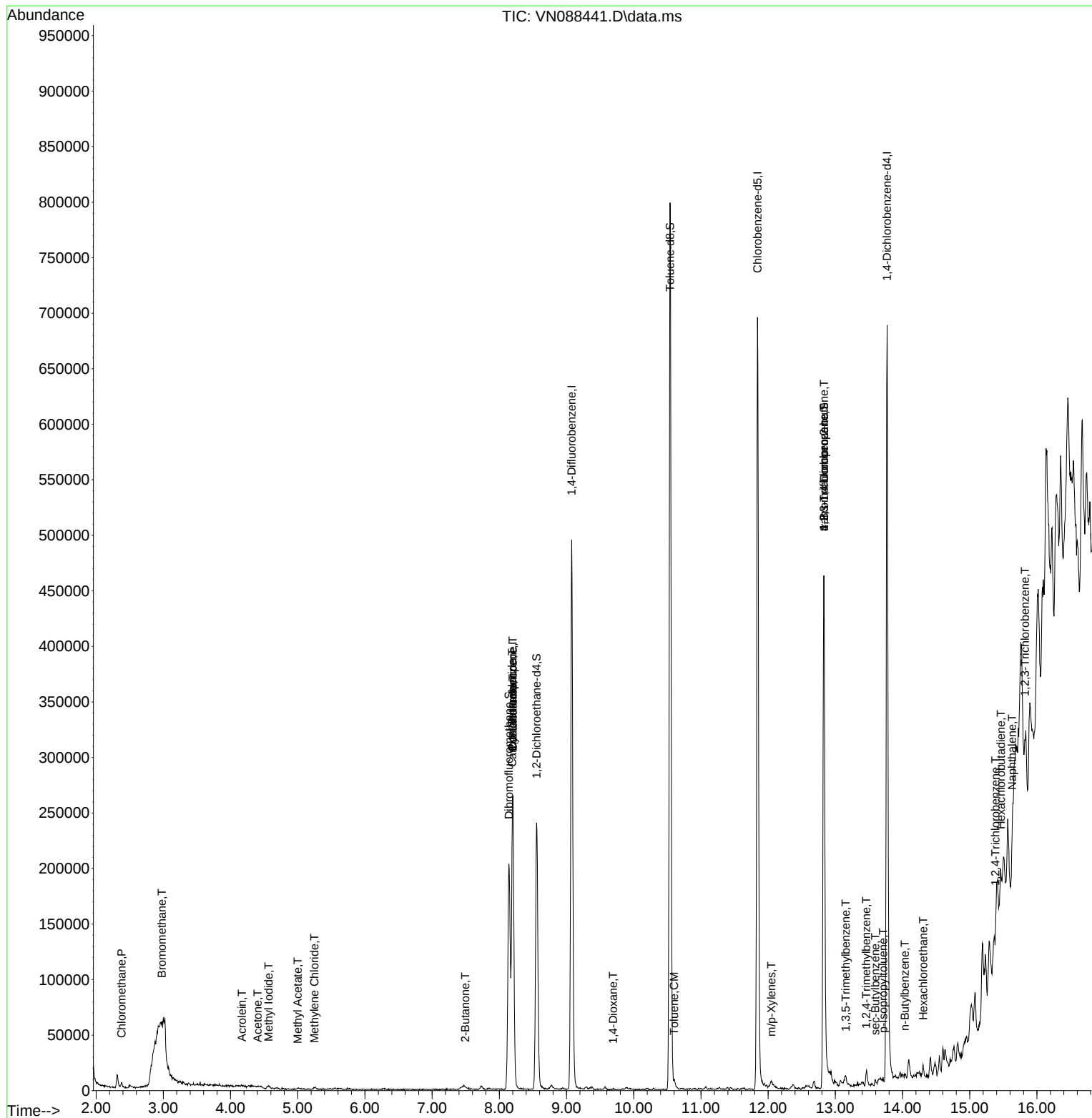
Internal Standards						
1) Pentafluorobenzene	8.200	168	172498	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	399074	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	377180	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	178991	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.553	65	216201	66.533	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 133.060%#	
35) Dibromofluoromethane	8.141	113	149115	53.918	ug/l	-0.01
Spiked Amount	50.000	Range	75 - 124	Recovery	= 107.840%	
50) Toluene-d8	10.541	98	531691	51.670	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.340%	
62) 4-Bromofluorobenzene	12.829	95	186503	52.823	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 105.640%	
Target Compounds						
						Qvalue
3) Chloromethane	2.377	50	4252	1.528	ug/l	93
5) Bromomethane	2.977	94	563	0.413	ug/l	91
10) Methyl Iodide	4.565	142	4771	2.275	ug/l #	87
13) Acrolein	4.171	56	289	0.582	ug/l #	1
16) Acetone	4.406	43	868	0.739	ug/l #	66
18) Methyl Acetate	5.000	43	1390	0.397	ug/l #	53
20) Methylene Chloride	5.248	84	1119	0.445	ug/l #	73
25) 2-Butanone	7.494	43	1361	0.720	ug/l #	49
31) Cyclohexane	8.200	56	5906	1.382	ug/l #	30
36) 1,1-Dichloropropene	8.200	75	18485	4.331	ug/l #	48
38) Carbon Tetrachloride	8.194	117	20957	4.932	ug/l #	15
49) 1,4-Dioxane	9.694	88	54	1.085	ug/l #	74
52) Toluene	10.600	92	1647	0.228	ug/l #	74
68) m/p-Xylenes	12.047	106	1453	0.265	ug/l #	64
76) 1,2,3-Trichloropropane	12.829	75	103533	24.696	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.153	105	4593	0.419	ug/l	73
81) trans-1,4-Dichloro-2-b...	12.829	75	103533	70.061	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.459	105	8333	0.764	ug/l	91
85) sec-Butylbenzene	13.594	105	3462	0.259	ug/l	95
86) p-Isopropyltoluene	13.712	119	3569	0.325	ug/l	96
89) n-Butylbenzene	14.035	91	2468	0.231	ug/l #	64
90) Hexachloroethane	14.306	117	1119	0.558	ug/l #	20
93) 1,2,4-Trichlorobenzene	15.382	180	2001	0.607	ug/l #	77
94) Hexachlorobutadiene	15.465	225	1119	0.945	ug/l	73
95) Naphthalene	15.629	128	3014	0.264	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.823	180	1614	0.503	ug/l #	48

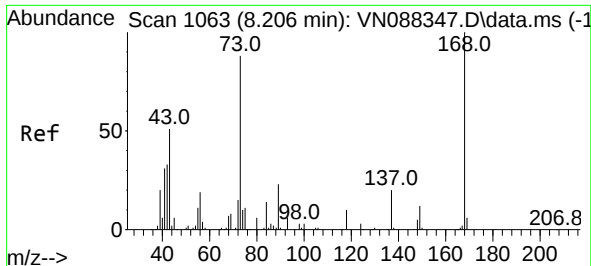
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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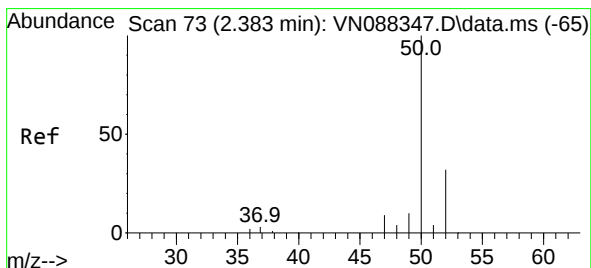
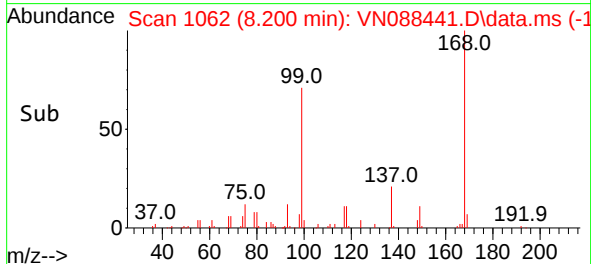
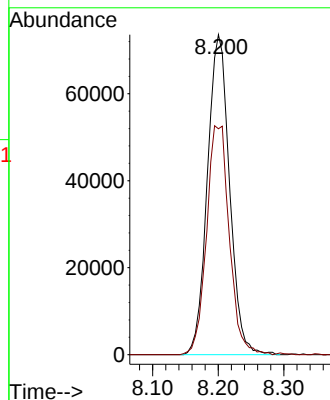
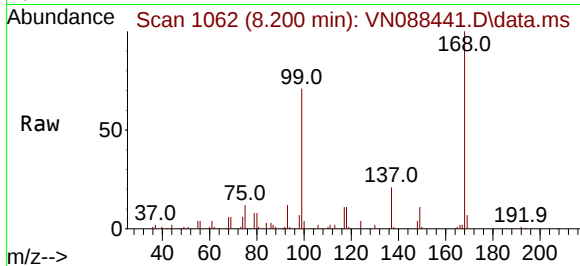




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.200 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

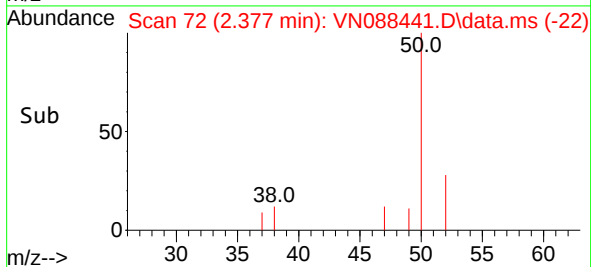
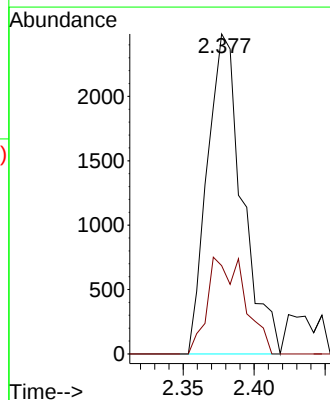
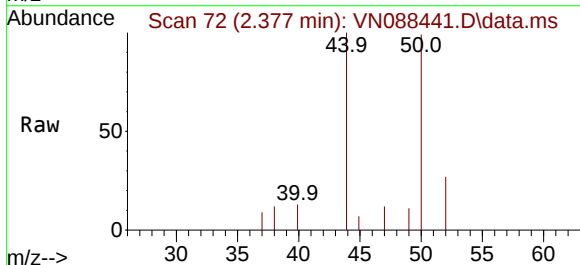
Instrument :
MSVOA_N
ClientSampleId :
20071

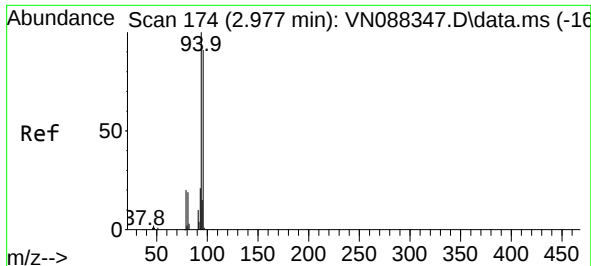
Tgt Ion:168 Resp: 172498
Ion Ratio Lower Upper
168 100
99 70.6 57.1 85.7



#3
Chloromethane
Concen: 1.528 ug/l
RT: 2.377 min Scan# 72
Delta R.T. -0.006 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

Tgt Ion: 50 Resp: 4252
Ion Ratio Lower Upper
50 100
52 27.6 25.2 37.8

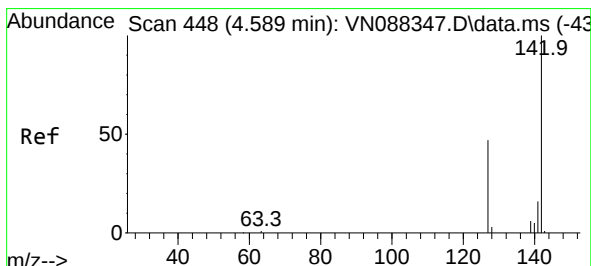
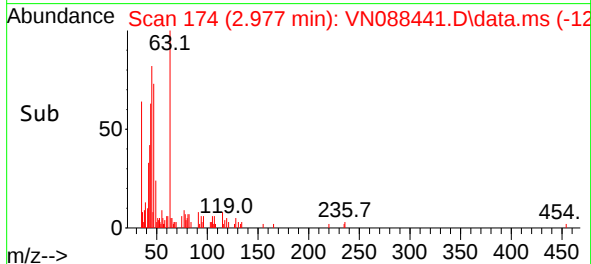
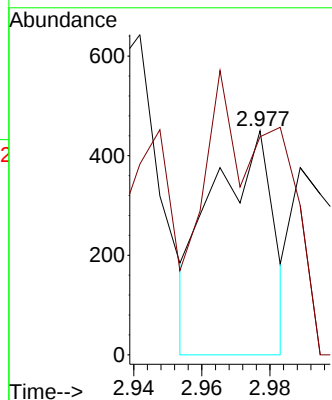
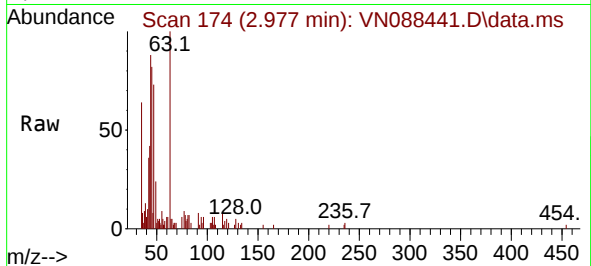




#5
Bromomethane
Concen: 0.413 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

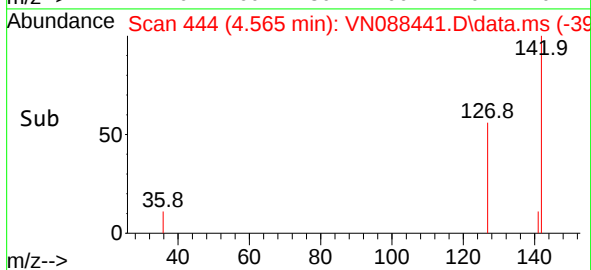
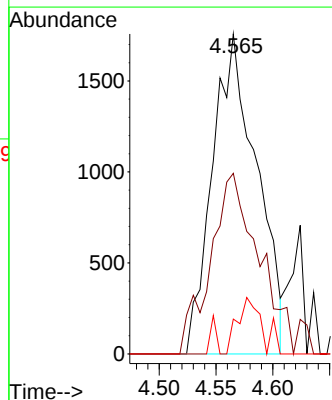
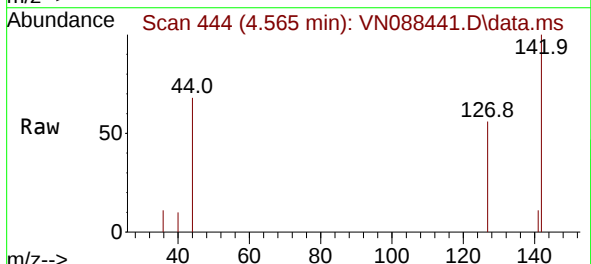
Instrument :
MSVOA_N
ClientSampleId :
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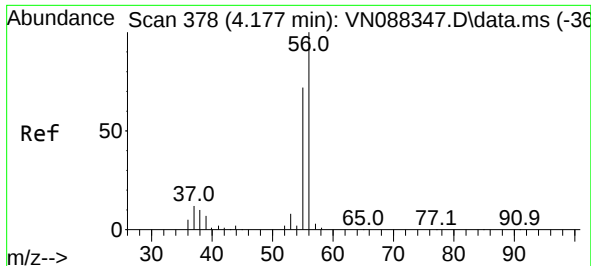
Tgt Ion: 94 Resp: 563
Ion Ratio Lower Upper
94 100
96 100.4 73.2 109.8



#10
Methyl Iodide
Concen: 2.275 ug/l
RT: 4.565 min Scan# 444
Delta R.T. -0.023 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

Tgt Ion: 142 Resp: 4771
Ion Ratio Lower Upper
142 100
127 56.4 37.9 56.9
141 10.9 12.4 18.6#

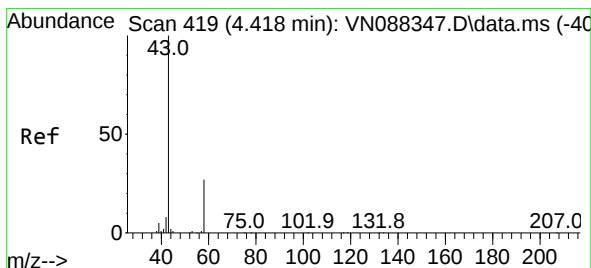
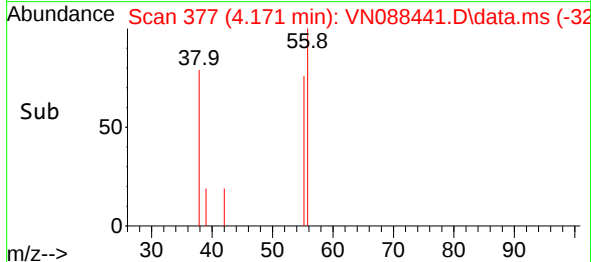
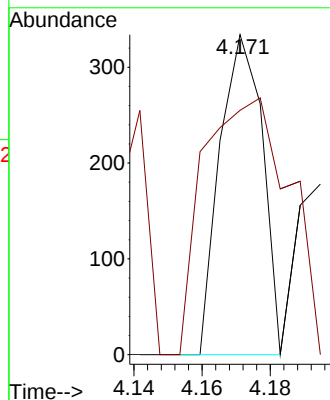
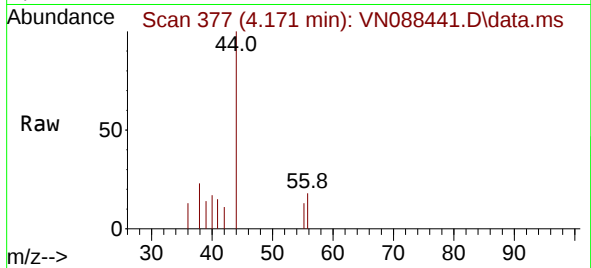




#13
Acrolein
Concen: 0.582 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

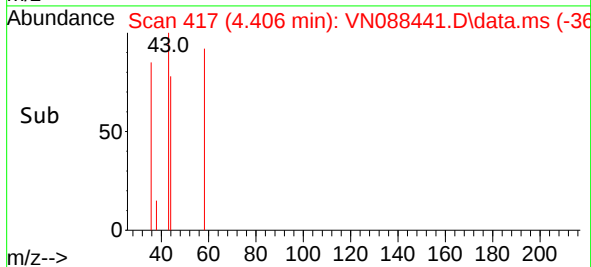
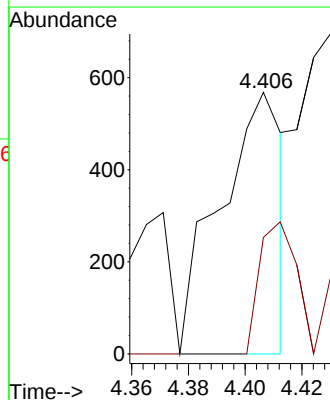
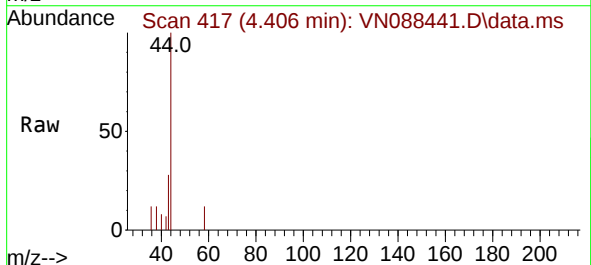
Instrument :
MSVOA_N
ClientSampleId :
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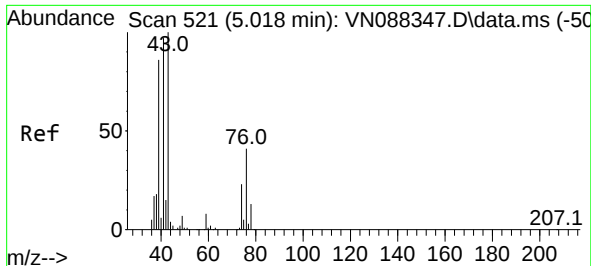
Tgt Ion: 56 Resp: 289
Ion Ratio Lower Upper
56 100
55 161.9 56.3 84.5#



#16
Acetone
Concen: 0.739 ug/l
RT: 4.406 min Scan# 417
Delta R.T. -0.012 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

Tgt Ion: 43 Resp: 868
Ion Ratio Lower Upper
43 100
58 44.5 21.7 32.5#

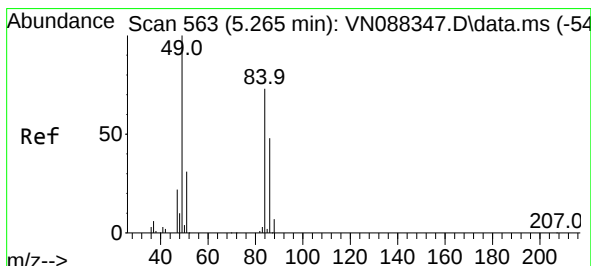
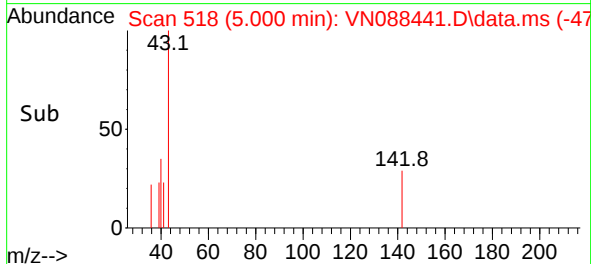
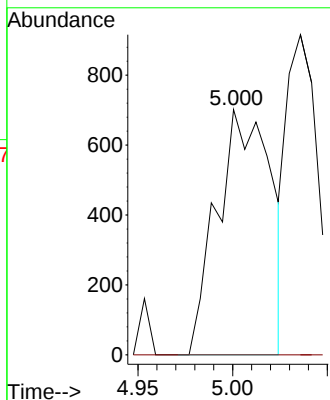
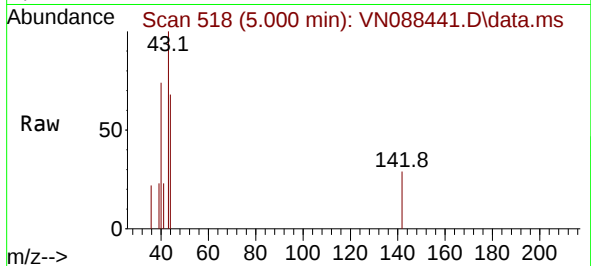




#18
Methyl Acetate
Concen: 0.397 ug/l
RT: 5.000 min Scan# 518
Delta R.T. -0.017 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

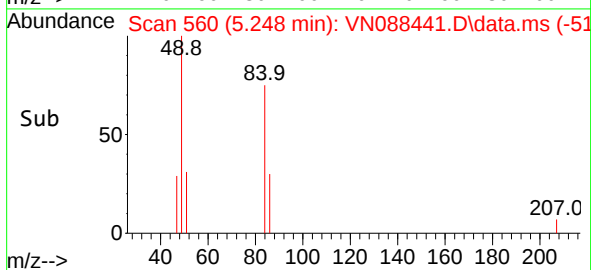
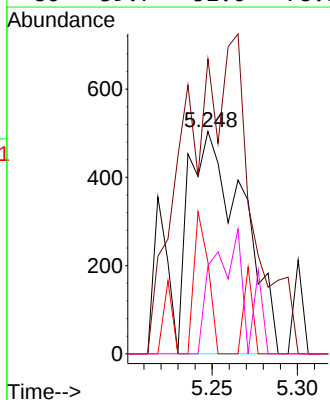
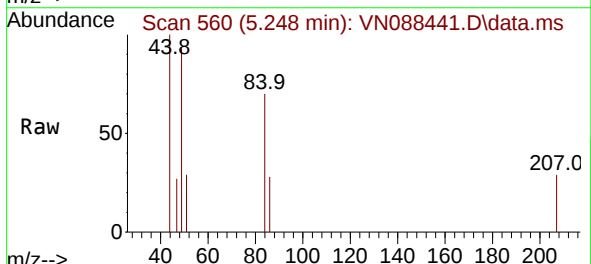
Instrument :
MSVOA_N
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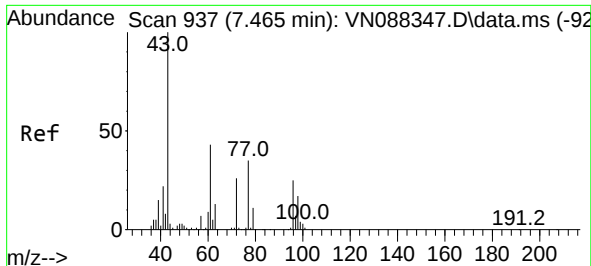
Tgt Ion: 43 Resp: 1390
Ion Ratio Lower Upper
43 100
74 0.0 17.9 26.9#



#20
Methylene Chloride
Concen: 0.445 ug/l
RT: 5.248 min Scan# 560
Delta R.T. -0.017 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

Tgt Ion: 84 Resp: 1119
Ion Ratio Lower Upper
84 100
49 99.4 110.2 165.2#
51 41.3 34.1 51.1
86 39.7 52.6 78.8#

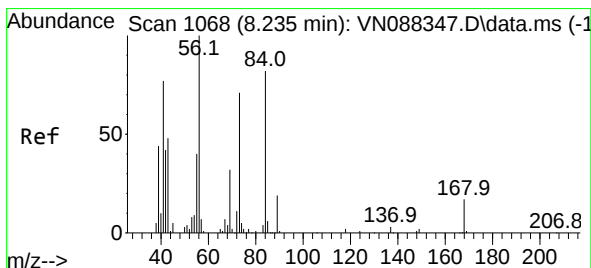
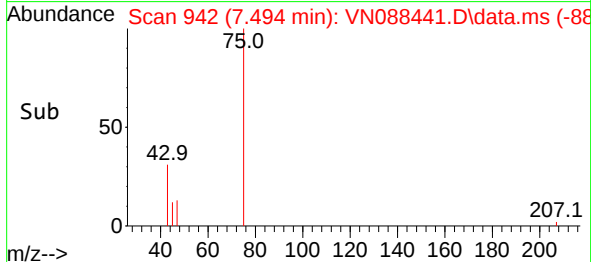
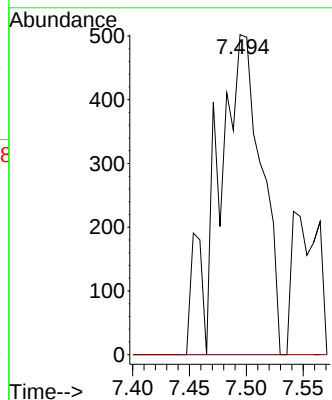
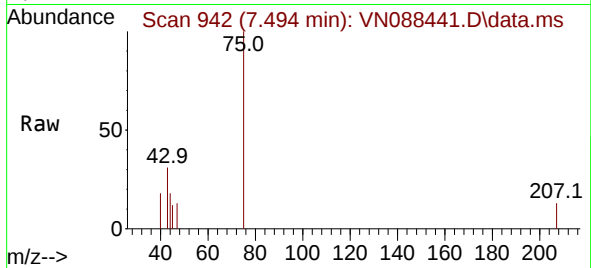




#25
2-Butanone
Concen: 0.720 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.030 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

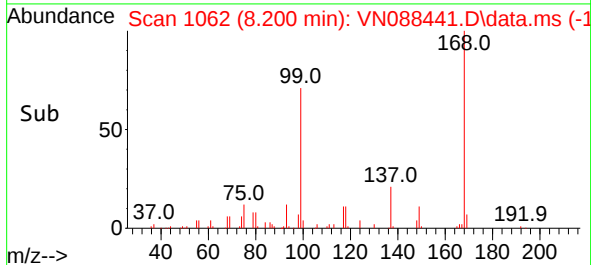
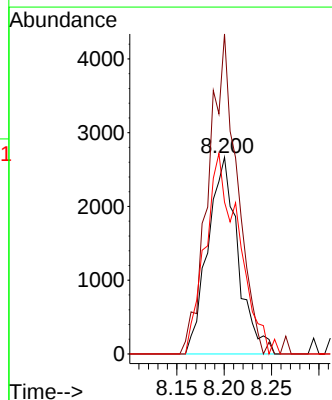
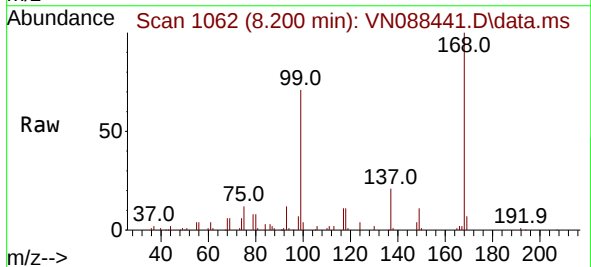
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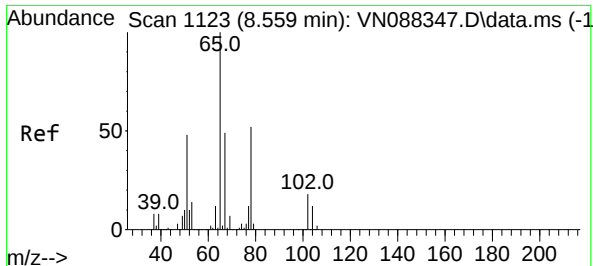
Tgt Ion: 43 Resp: 1361
Ion Ratio Lower Upper
43 100
72 0.0 20.5 30.7#



#31
Cyclohexane
Concen: 1.382 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

Tgt Ion: 56 Resp: 5906
Ion Ratio Lower Upper
56 100
69 162.8 25.3 37.9#
84 77.2 65.4 98.2





#33

1,2-Dichloroethane-d4

Concen: 66.533 ug/l

RT: 8.553 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN088441.D

Acq: 04 Dec 2025 13:31

Instrument :

MSVOA_N

ClientSampleId :

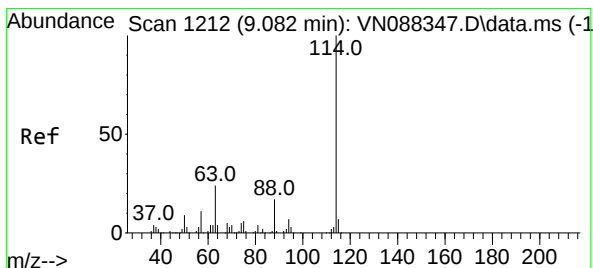
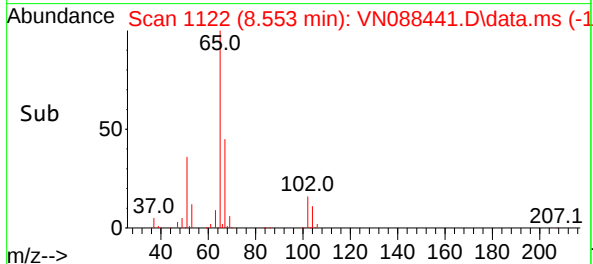
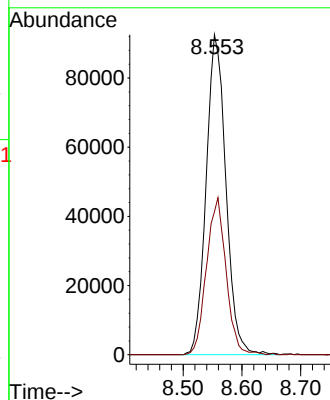
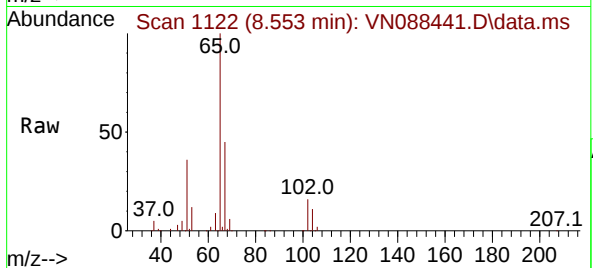
20071

Tgt Ion: 65 Resp: 216201

Ion Ratio Lower Upper

65 100

67 48.6 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.077 min Scan# 1211

Delta R.T. -0.006 min

Lab File: VN088441.D

Acq: 04 Dec 2025 13:31

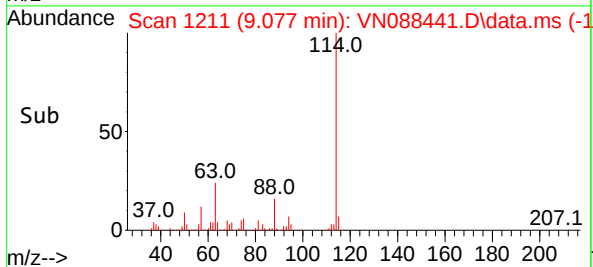
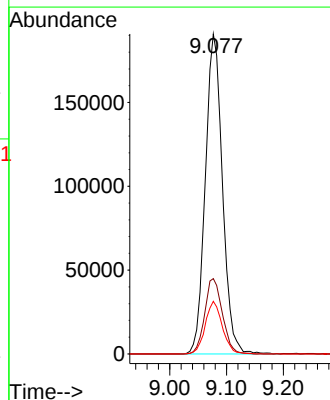
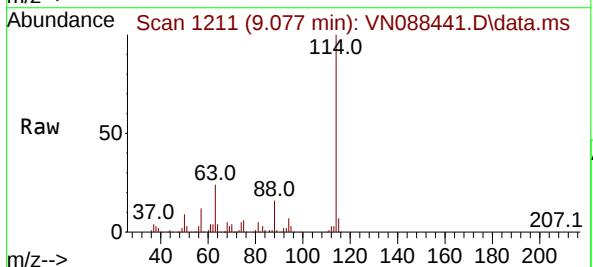
Tgt Ion: 114 Resp: 399074

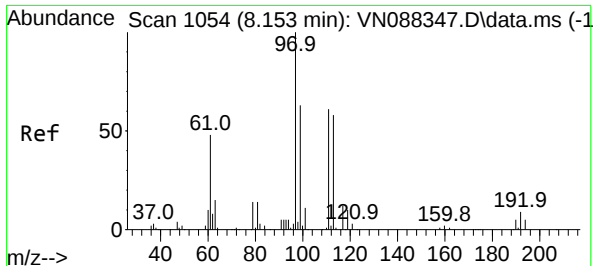
Ion Ratio Lower Upper

114 100

63 23.5 0.0 49.0

88 16.5 0.0 34.0





#35

Dibromofluoromethane

Concen: 53.918 ug/l

RT: 8.141 min Scan# 1052

Delta R.T. -0.012 min

Lab File: VN088441.D

Acq: 04 Dec 2025 13:31

Instrument :

MSVOA_N

ClientSampleId :

20071

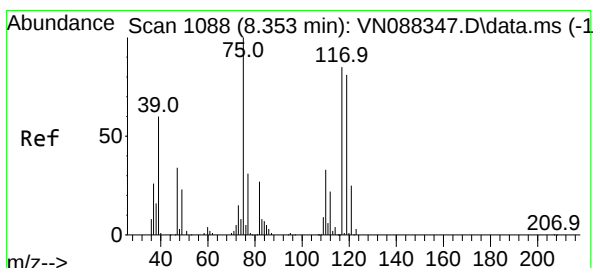
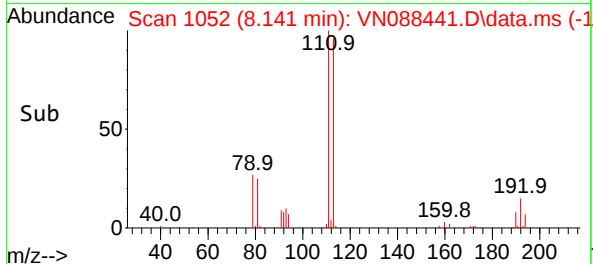
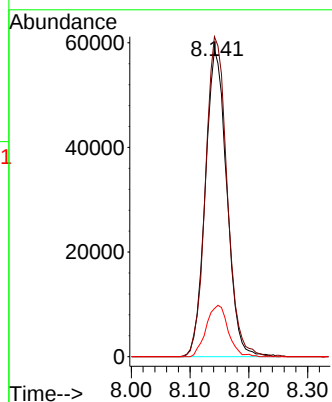
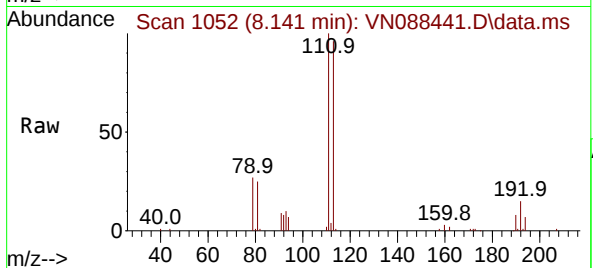
Tgt Ion:113 Resp: 149115

Ion Ratio Lower Upper

113 100

111 104.6 82.5 123.7

192 17.0 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.331 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN088441.D

Acq: 04 Dec 2025 13:31

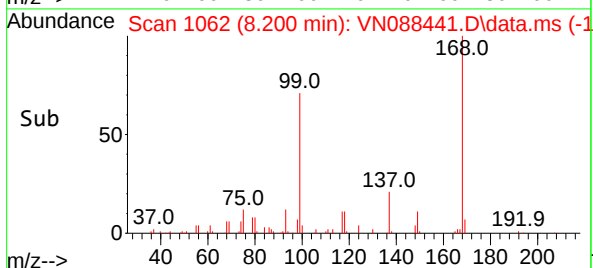
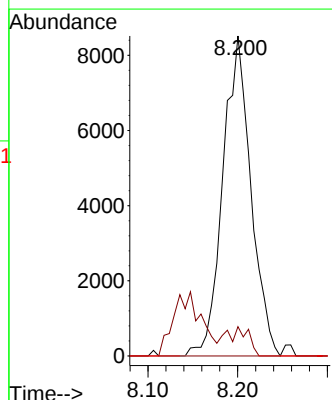
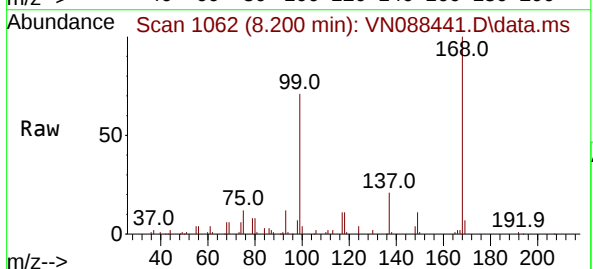
Tgt Ion: 75 Resp: 18485

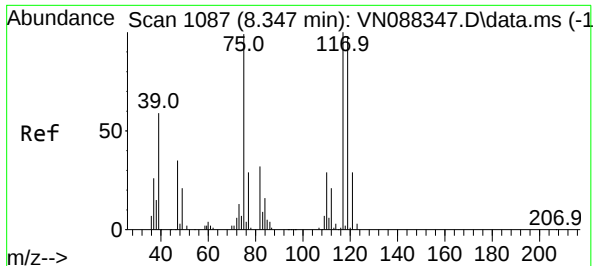
Ion Ratio Lower Upper

75 100

110 4.2 15.8 47.4#

77 0.0 24.2 36.2#

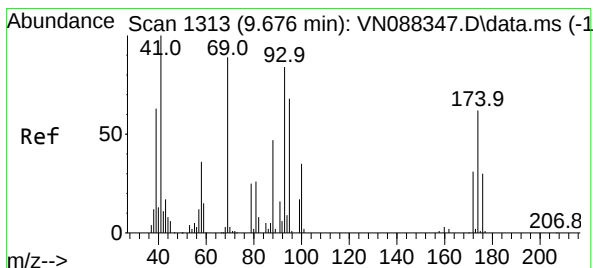
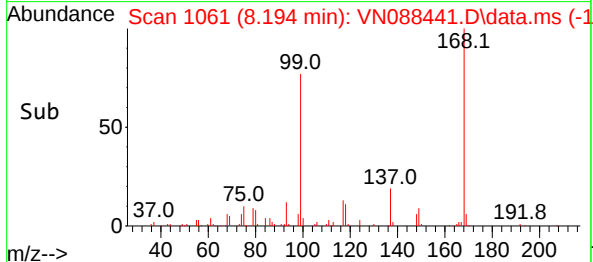
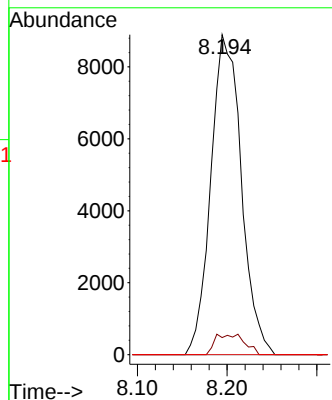
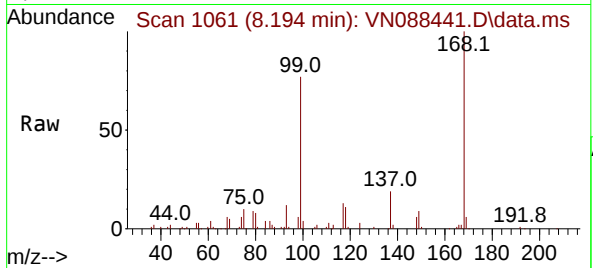




#38
Carbon Tetrachloride
Concen: 4.932 ug/l
RT: 8.194 min Scan# 1061
Delta R.T. -0.153 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

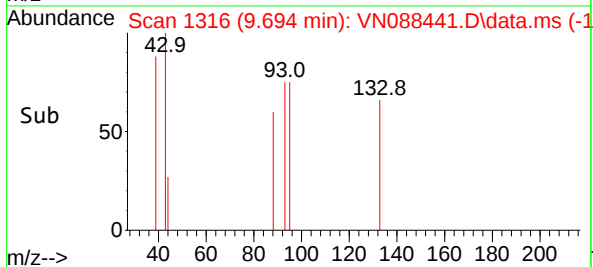
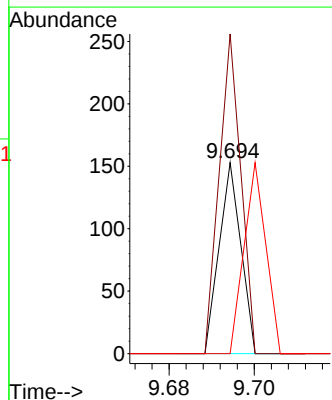
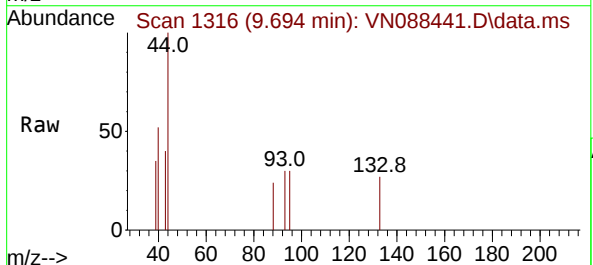
Instrument :
MSVOA_N
ClientSampleId :
20071

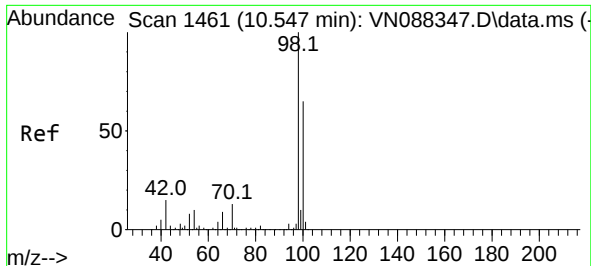
Tgt Ion: 117 Resp: 20957
Ion Ratio Lower Upper
117 100
119 5.4 78.2 117.4#
121 0.0 23.4 35.2#



#49
1,4-Dioxane
Concen: 1.085 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.018 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

Tgt Ion: 88 Resp: 54
Ion Ratio Lower Upper
88 100
43 166.7 0.0 0.0#
58 100.0 62.0 93.0#

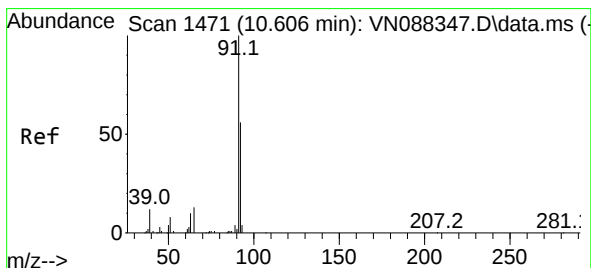
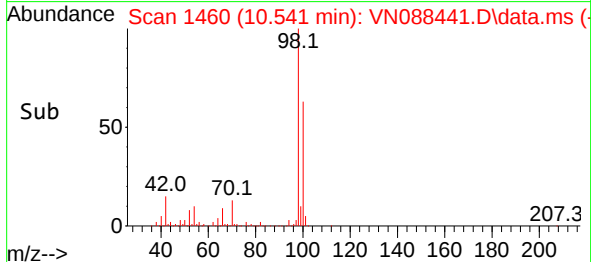
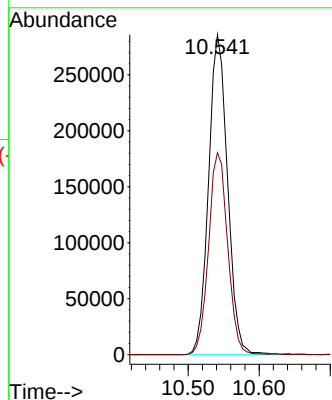
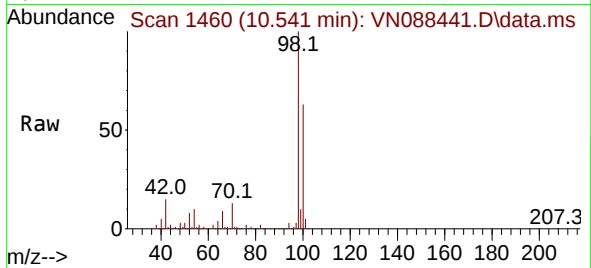




#50
Toluene-d8
Concen: 51.670 ug/l
RT: 10.541 min Scan# 1461
Delta R.T. -0.006 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

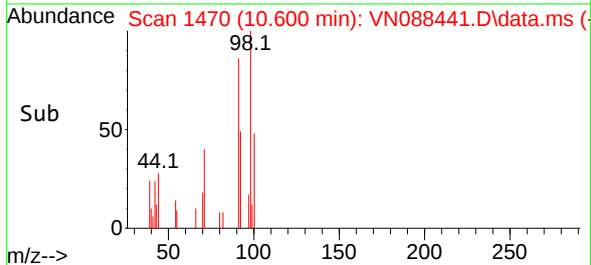
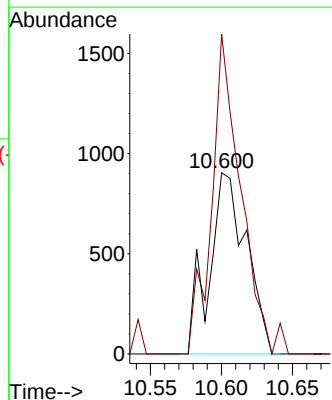
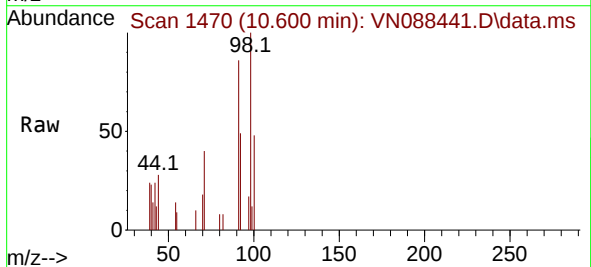
Instrument :
MSVOA_N
ClientSampleId :
20071

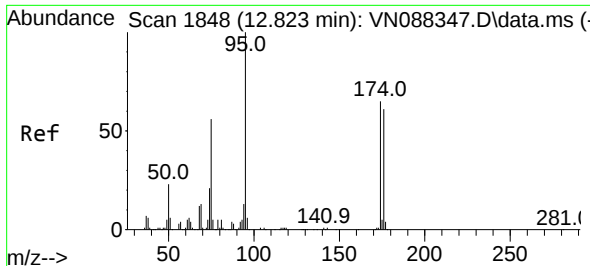
Tgt Ion: 98 Resp: 531691
Ion Ratio Lower Upper
98 100
100 63.3 52.2 78.2



#52
Toluene
Concen: 0.228 ug/l
RT: 10.600 min Scan# 1470
Delta R.T. -0.006 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

Tgt Ion: 92 Resp: 1647
Ion Ratio Lower Upper
92 100
91 139.5 140.2 210.2#

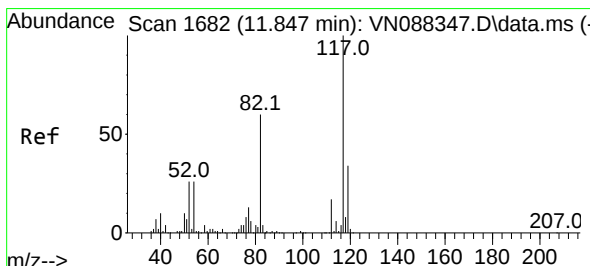
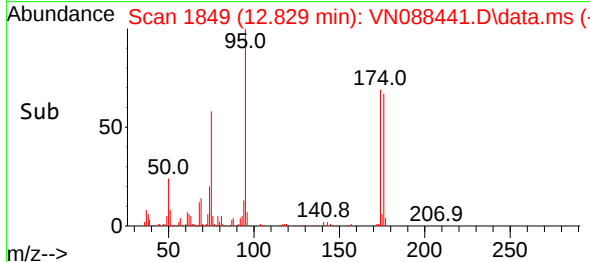
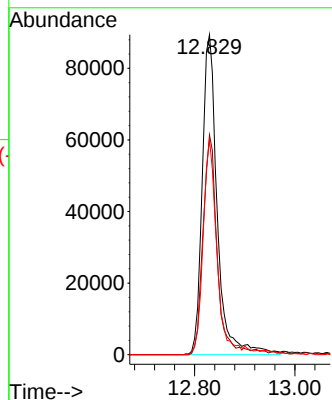
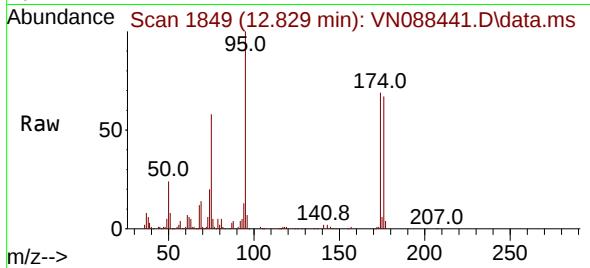




#62
4-Bromofluorobenzene
Concen: 52.823 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

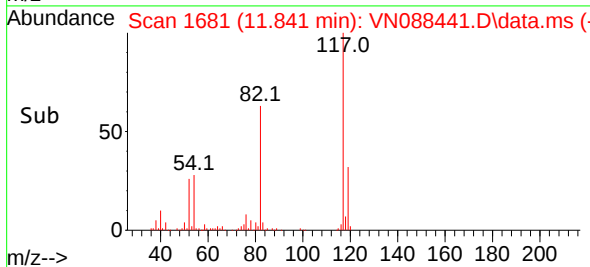
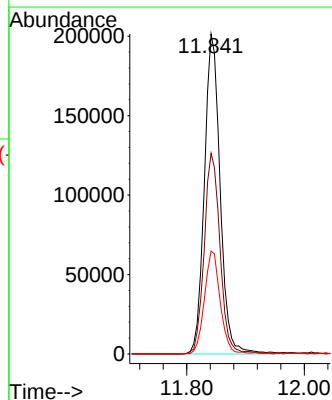
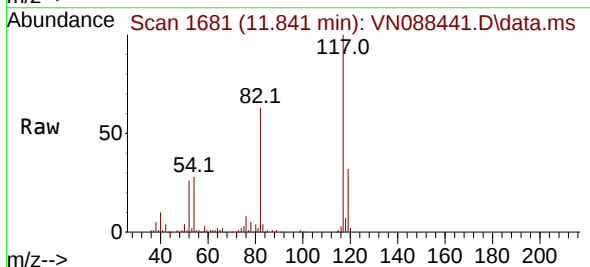
Instrument :
MSVOA_N
ClientSampleId :
20071

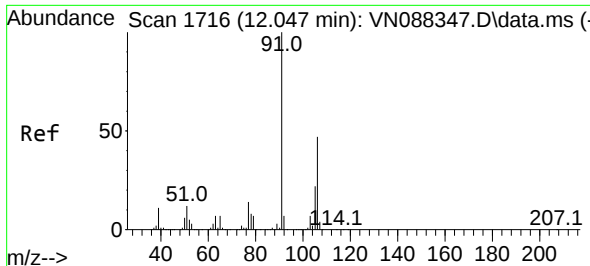
Tgt Ion: 95 Resp: 186503
Ion Ratio Lower Upper
95 100
174 64.0 0.0 139.0
176 60.9 0.0 132.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

Tgt Ion: 117 Resp: 377180
Ion Ratio Lower Upper
117 100
82 62.7 47.8 71.8
119 32.2 26.9 40.3

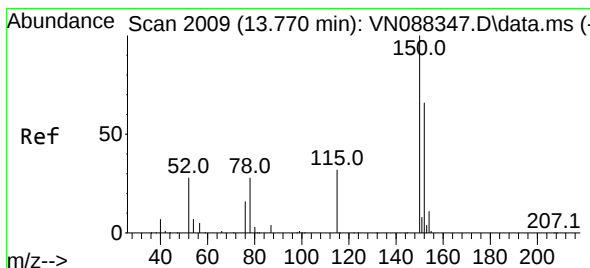
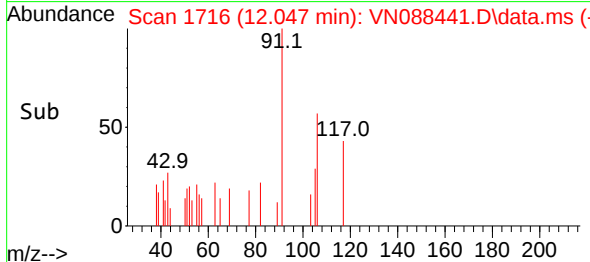
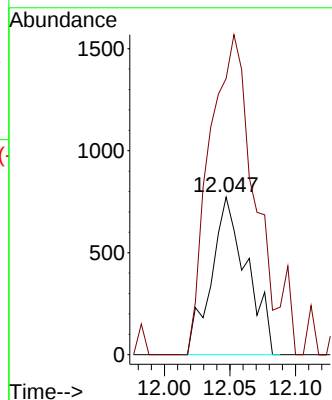
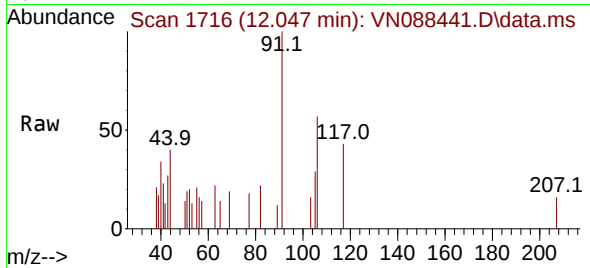




#68
m/p-Xylenes
Concen: 0.265 ug/l
RT: 12.047 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

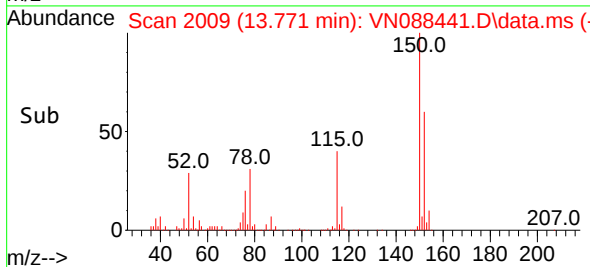
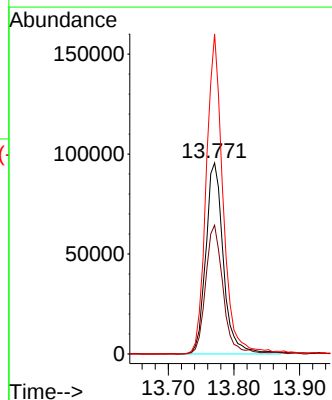
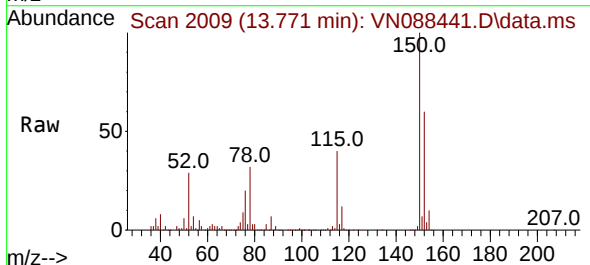
Instrument :
MSVOA_N
ClientSampleId :
20071

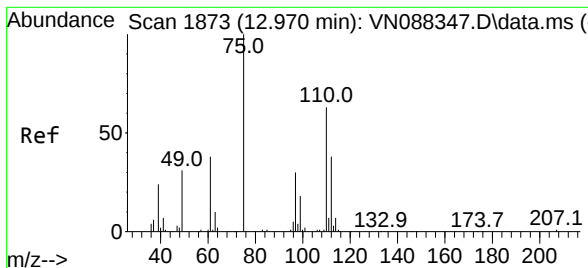
Tgt Ion:106 Resp: 1453
Ion Ratio Lower Upper
106 100
91 265.5 167.8 251.6#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

Tgt Ion:152 Resp: 178991
Ion Ratio Lower Upper
152 100
115 66.6 33.0 98.9
150 159.0 0.0 349.0

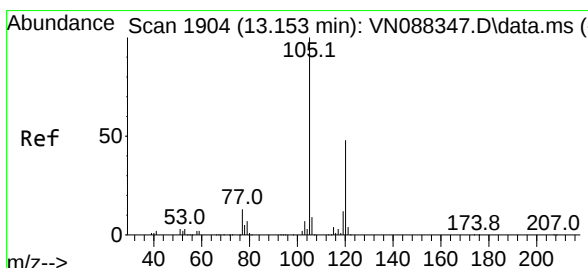
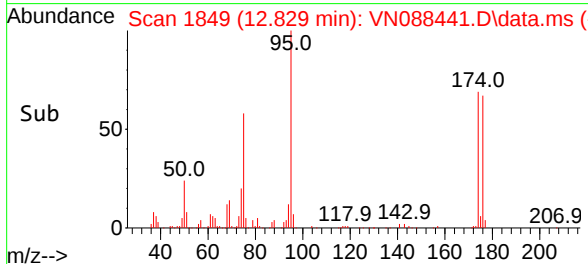
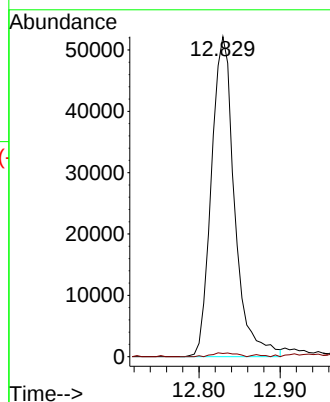
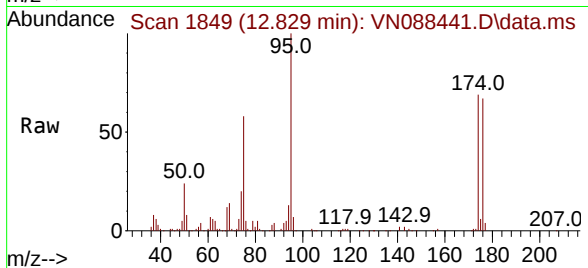




#76
 1,2,3-Trichloropropane
 Concen: 24.696 ug/l
 RT: 12.829 min Scan# 11
 Delta R.T. -0.141 min
 Lab File: VN088441.D
 Acq: 04 Dec 2025 13:31

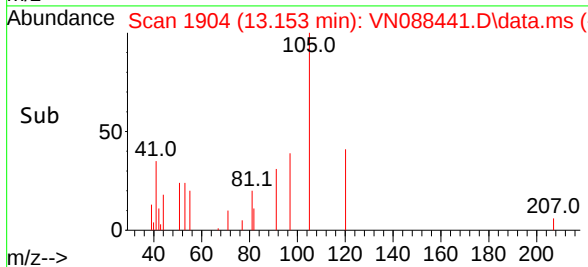
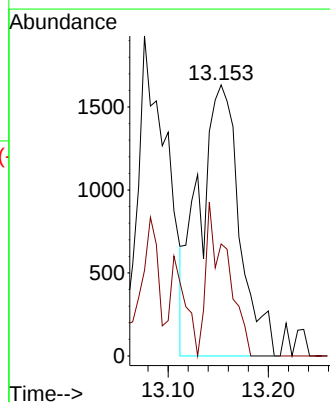
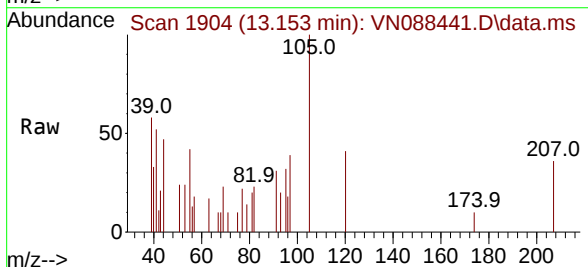
Instrument :
 MSVOA_N
 ClientSampleId :
 20071

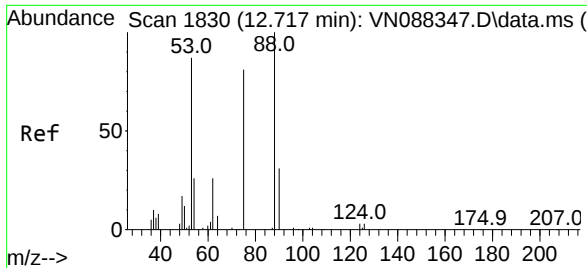
Tgt Ion: 75 Resp: 103533
 Ion Ratio Lower Upper
 75 100
 77 1.3 87.2 261.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.419 ug/l
 RT: 13.153 min Scan# 1904
 Delta R.T. 0.000 min
 Lab File: VN088441.D
 Acq: 04 Dec 2025 13:31

Tgt Ion:105 Resp: 4593
 Ion Ratio Lower Upper
 105 100
 120 29.8 23.8 71.5

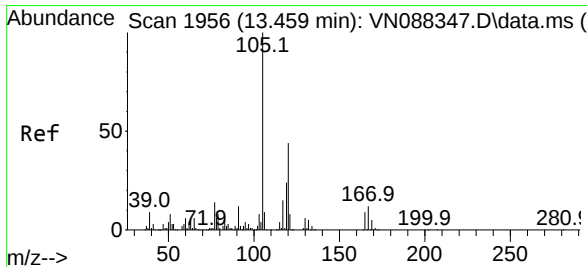
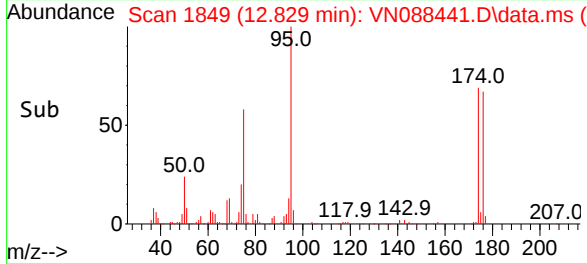
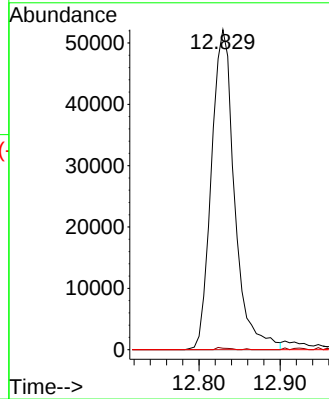
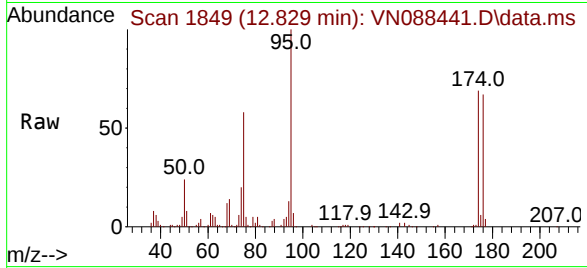




#81
trans-1,4-Dichloro-2-butene
Concen: 70.061 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

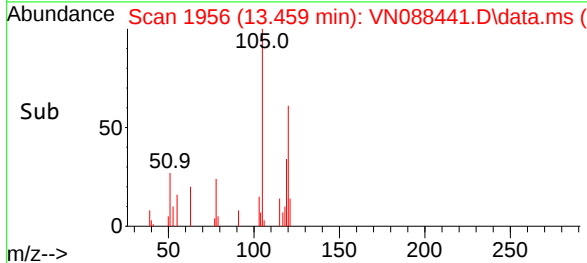
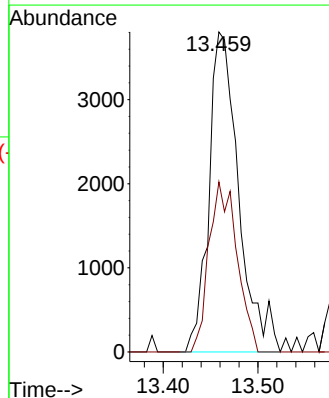
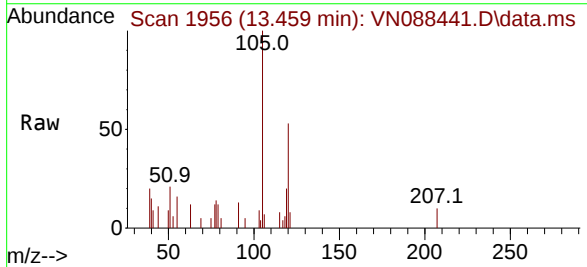
Instrument :
MSVOA_N
ClientSampleId :
20071

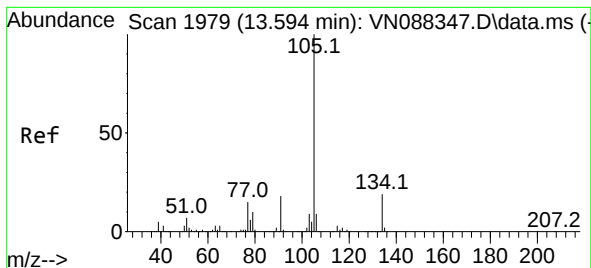
Tgt Ion: 75 Resp: 103533
Ion Ratio Lower Upper
75 100
53 0.3 92.2 138.4#
89 0.0 0.0 0.0



#84
1,2,4-Trimethylbenzene
Concen: 0.764 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

Tgt Ion: 105 Resp: 8333
Ion Ratio Lower Upper
105 100
120 50.0 22.1 66.1

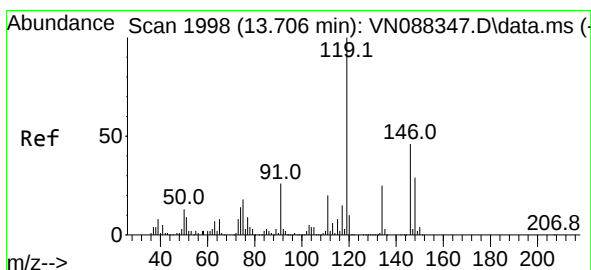
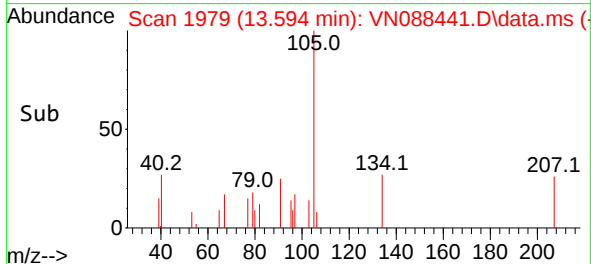
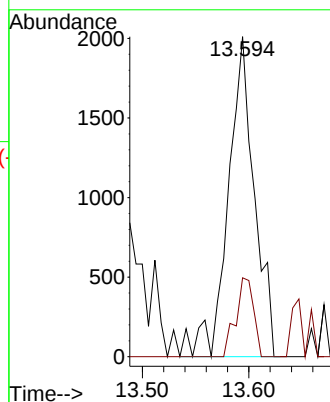
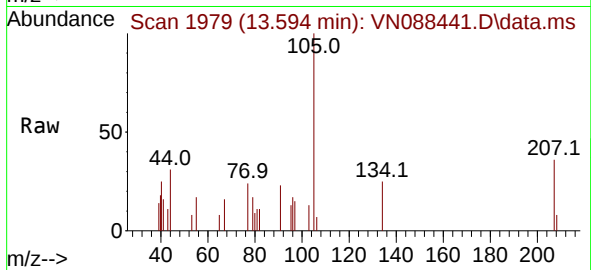




#85
sec-Butylbenzene
Concen: 0.259 ug/l
RT: 13.594 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

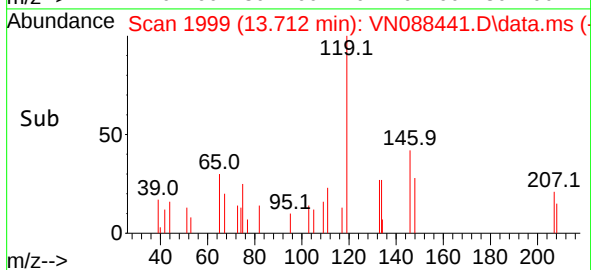
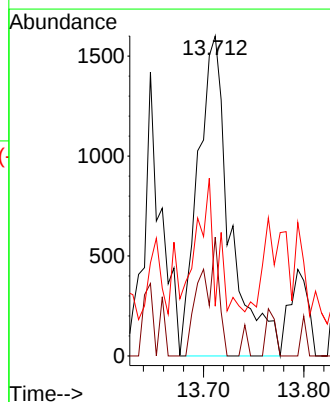
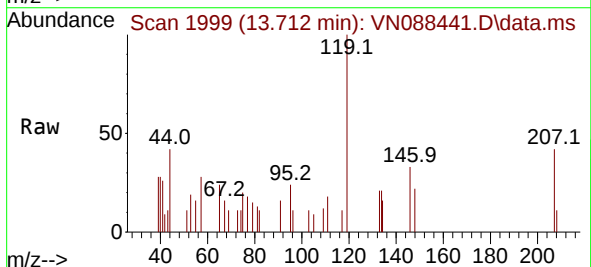
Instrument :
MSVOA_N
ClientSampleId :
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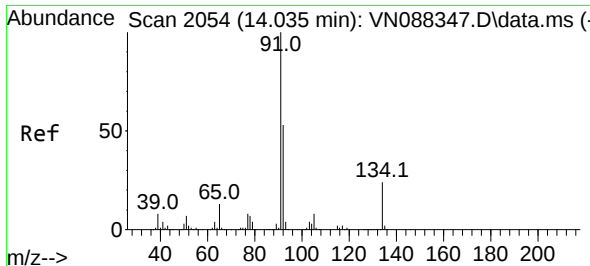
Tgt Ion:105 Resp: 3462
Ion Ratio Lower Upper
105 100
134 16.6 9.5 28.5



#86
p-Isopropyltoluene
Concen: 0.325 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. 0.006 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

Tgt Ion:119 Resp: 3569
Ion Ratio Lower Upper
119 100
134 20.5 12.2 36.6
91 25.7 13.0 39.0

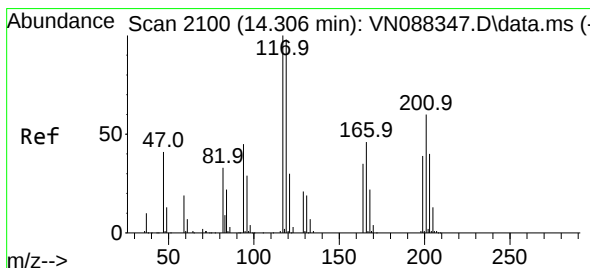
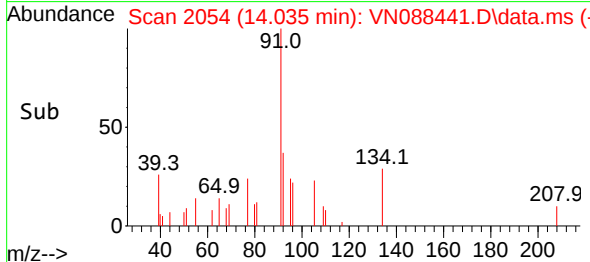
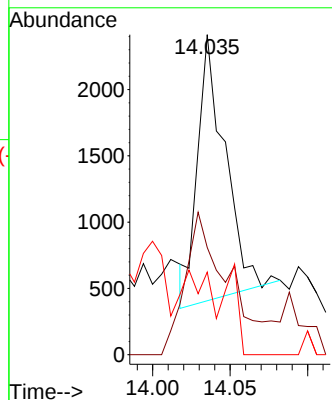
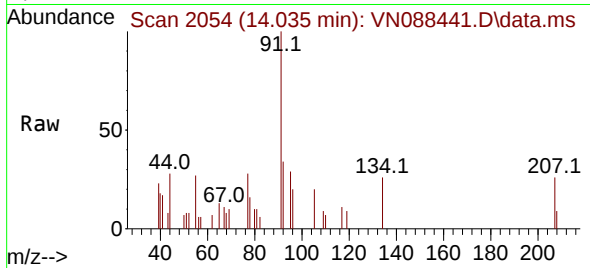




#89
n-Butylbenzene
Concen: 0.231 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

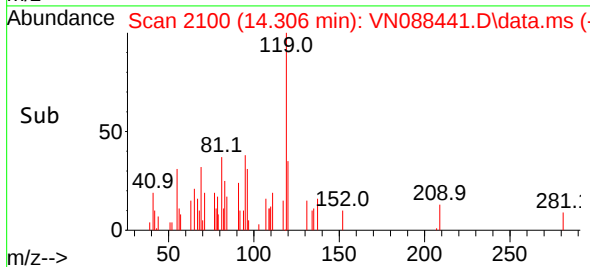
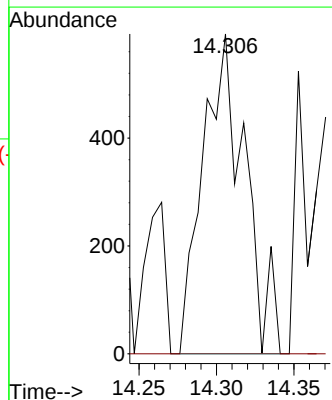
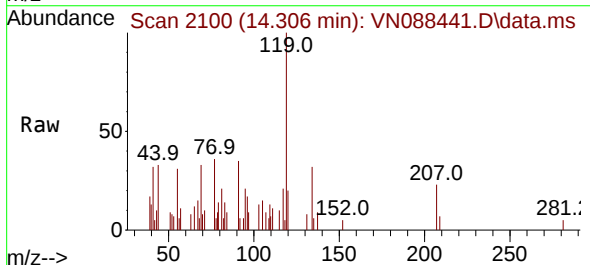
Instrument :
MSVOA_N
ClientSampleId :
20071

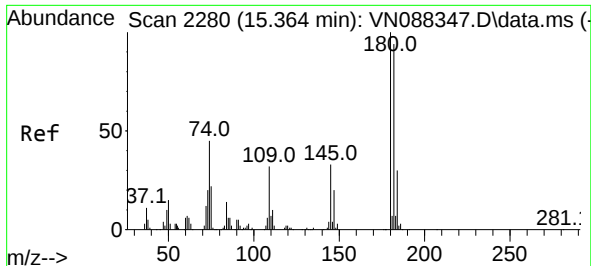
Tgt Ion: 91 Resp: 2468
Ion Ratio Lower Upper
91 100
92 82.9 26.1 78.3#
134 14.4 11.7 35.1



#90
Hexachloroethane
Concen: 0.558 ug/l
RT: 14.306 min Scan# 2100
Delta R.T. 0.000 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

Tgt Ion: 117 Resp: 1119
Ion Ratio Lower Upper
117 100
201 0.0 30.3 90.9#

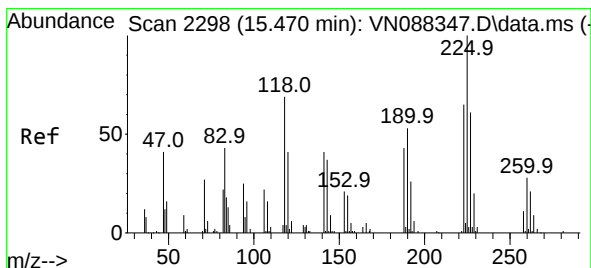
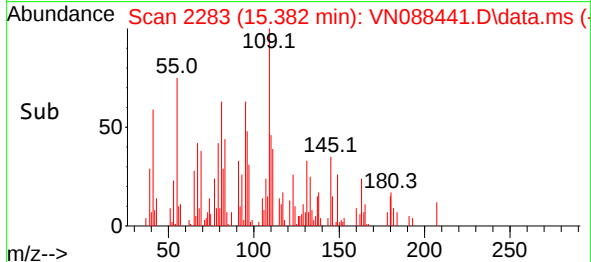
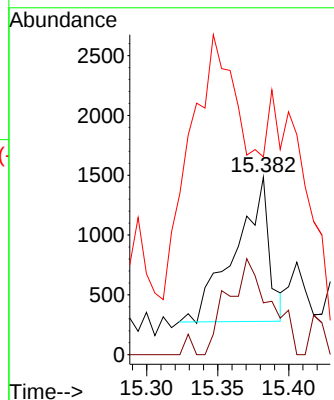
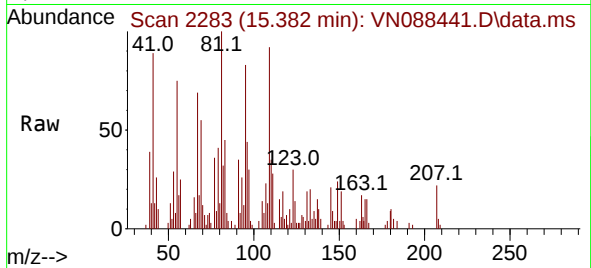




#93
1,2,4-Trichlorobenzene
Concen: 0.607 ug/l
RT: 15.382 min Scan# 21
Delta R.T. 0.018 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

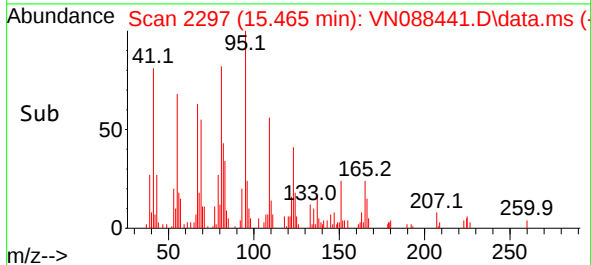
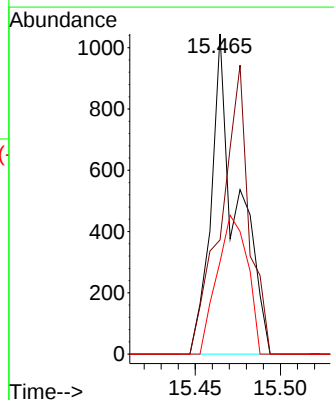
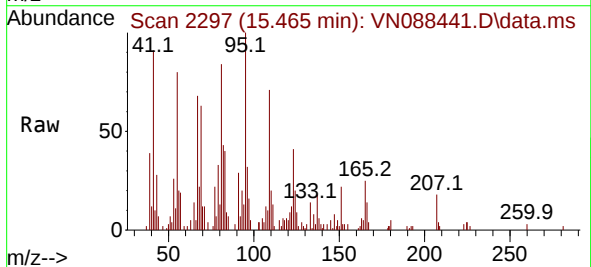
Instrument :
MSVOA_N
ClientSampleId :
20071

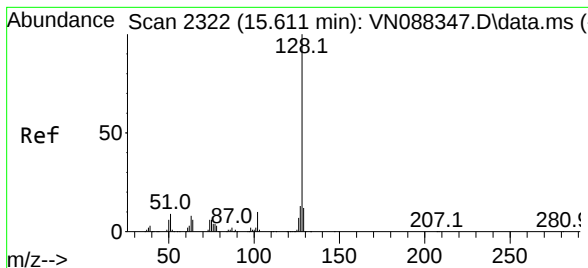
Tgt Ion:180 Resp: 2001
Ion Ratio Lower Upper
180 100
182 83.0 46.1 138.2
145 0.0 16.7 50.1#



#94
Hexachlorobutadiene
Concen: 0.945 ug/l
RT: 15.465 min Scan# 2297
Delta R.T. -0.006 min
Lab File: VN088441.D
Acq: 04 Dec 2025 13:31

Tgt Ion:225 Resp: 1119
Ion Ratio Lower Upper
225 100
223 96.4 32.3 96.8
227 50.2 29.9 89.8





#95

Naphthalene

Concen: 0.264 ug/l

RT: 15.629 min Scan# 21

Delta R.T. 0.018 min

Lab File: VN088441.D

Acq: 04 Dec 2025 13:31

Instrument :

MSVOA_N

ClientSampleId :

20071

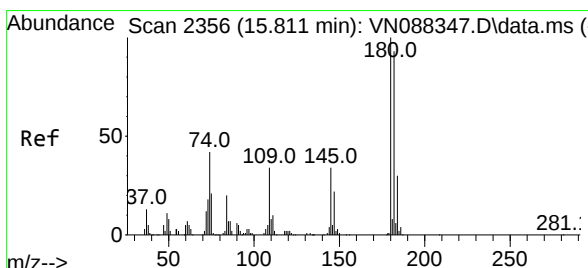
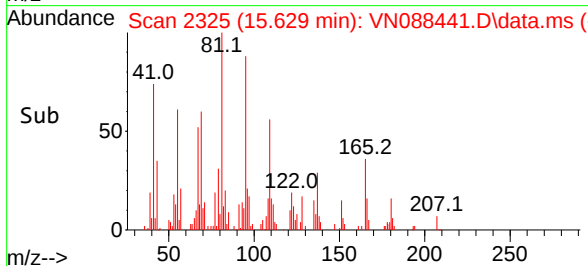
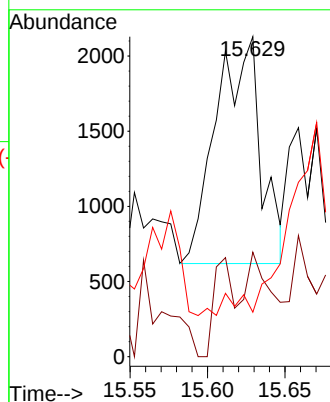
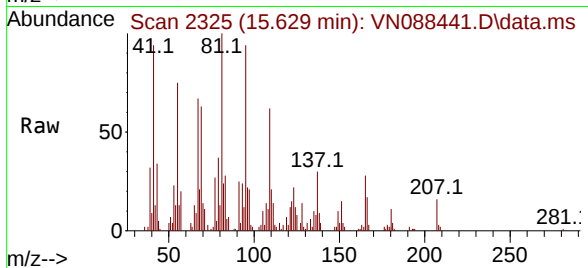
Tgt Ion:128 Resp: 3014

Ion Ratio Lower Upper

128 100

127 10.9 10.4 15.6

129 0.0 9.0 13.6#



#96

1,2,3-Trichlorobenzene

Concen: 0.503 ug/l

RT: 15.823 min Scan# 2358

Delta R.T. 0.012 min

Lab File: VN088441.D

Acq: 04 Dec 2025 13:31

Tgt Ion:180 Resp: 1614

Ion Ratio Lower Upper

180 100

182 45.8 45.9 137.7#

145 0.0 17.8 53.4#

