

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
 Data File : VN088371.D
 Acq On : 01 Dec 2025 10:33
 Operator : JC\MD
 Sample : VN1201MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 02 00:09:08 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)

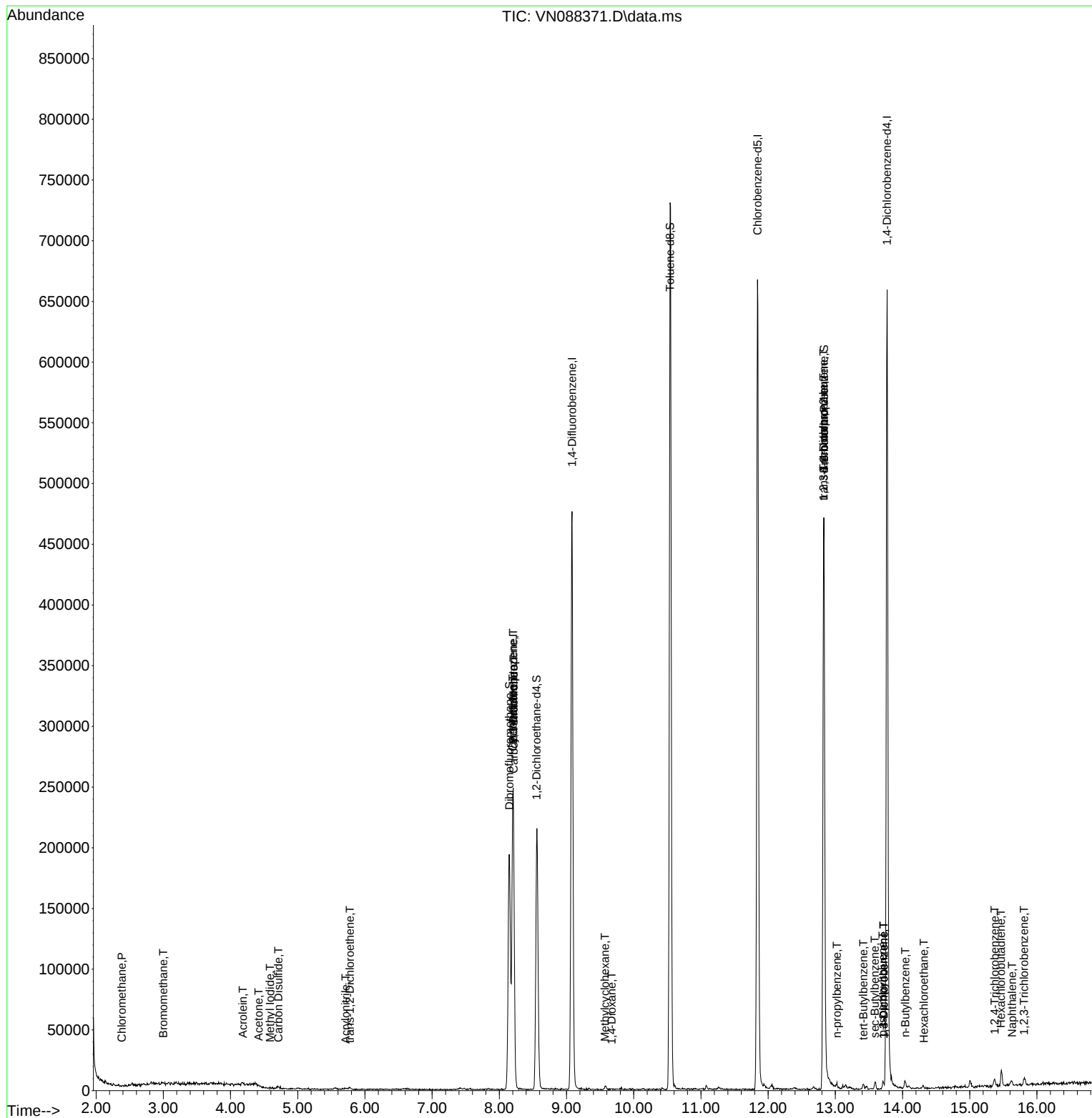
Internal Standards						
1) Pentafluorobenzene	8.206	168	169299	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	384956	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	371379	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	173172	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.553	65	180706	56.661	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 113.320%	
35) Dibromofluoromethane	8.147	113	140771	52.768	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 105.540%	
50) Toluene-d8	10.541	98	499751	50.348	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.700%	
62) 4-Bromofluorobenzene	12.829	95	178735	52.480	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 104.960%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.383	50	728	0.267	ug/l	89
5) Bromomethane	3.001	94	876	0.655	ug/l	85
10) Methyl Iodide	4.589	142	442	0.215	ug/l #	38
13) Acrolein	4.183	56	1063	2.181	ug/l #	69
15) Acrylonitrile	5.712	53	1283	0.873	ug/l #	56
16) Acetone	4.418	43	1031	0.894	ug/l #	48
17) Carbon Disulfide	4.712	76	4080	0.604	ug/l #	76
21) trans-1,2-Dichloroethene	5.777	96	787	0.344	ug/l #	57
31) Cyclohexane	8.200	56	5625	1.341	ug/l #	3
36) 1,1-Dichloropropene	8.206	75	17332	4.210	ug/l #	49
38) Carbon Tetrachloride	8.212	117	20244	4.939	ug/l #	13
39) Methylcyclohexane	9.571	83	1291	0.293	ug/l #	44
49) 1,4-Dioxane	9.671	88	125	2.604	ug/l #	26
71) Bromoform	12.829	173	1784	0.866	ug/l #	1
76) 1,2,3-Trichloropropane	12.823	75	98661	24.325	ug/l #	1
78) n-propylbenzene	13.023	91	3290	0.210	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.823	75	98661	69.008	ug/l #	1
83) tert-Butylbenzene	13.418	119	2404	0.267	ug/l	97
85) sec-Butylbenzene	13.588	105	4388	0.339	ug/l	94
86) p-Isopropyltoluene	13.706	119	2790	0.263	ug/l	92
87) 1,3-Dichlorobenzene	13.718	146	1428	0.250	ug/l	79
88) 1,4-Dichlorobenzene	13.718	146	1428	0.239	ug/l	79
89) n-Butylbenzene	14.041	91	4784	0.464	ug/l	92
90) Hexachloroethane	14.318	117	497	0.256	ug/l #	39
93) 1,2,4-Trichlorobenzene	15.370	180	1576	0.494	ug/l	65
94) Hexachlorobutadiene	15.464	225	2309	2.015	ug/l	94
95) Naphthalene	15.629	128	5417	0.490	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.806	180	2279	0.734	ug/l	92

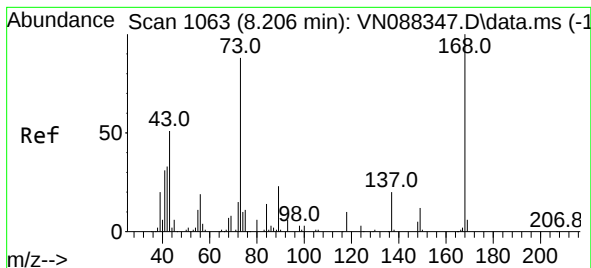
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
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Quant Time: Dec 02 00:09:08 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

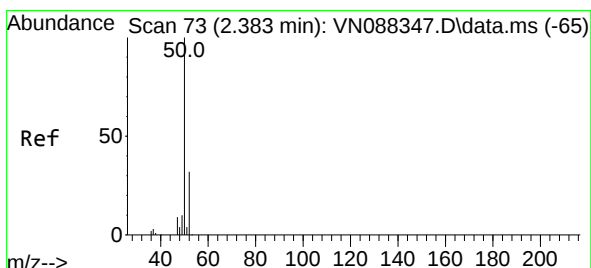
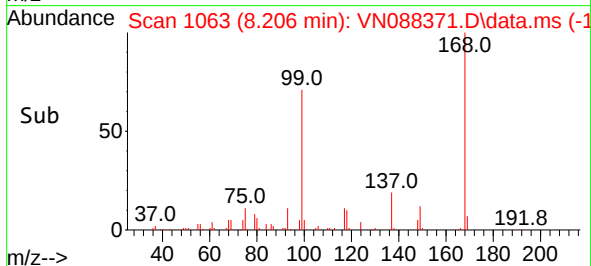
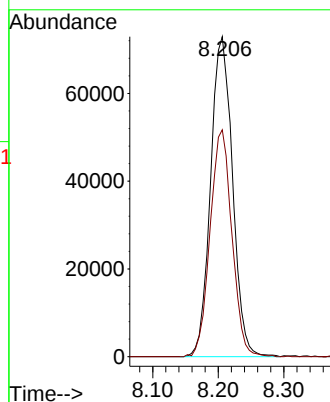
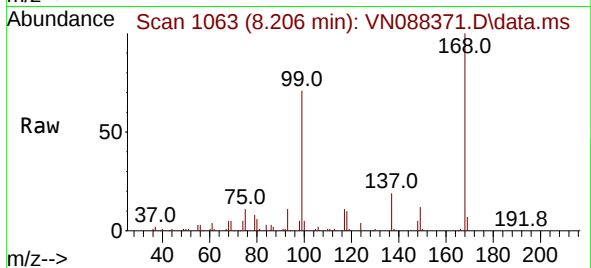




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088371.D
Acq: 01 Dec 2025 10:33

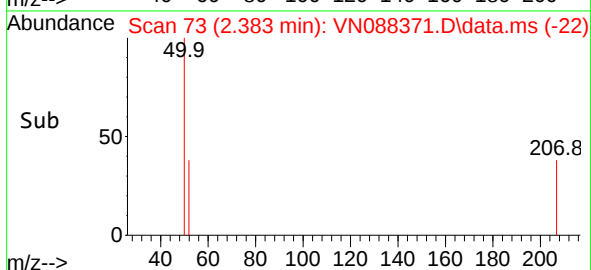
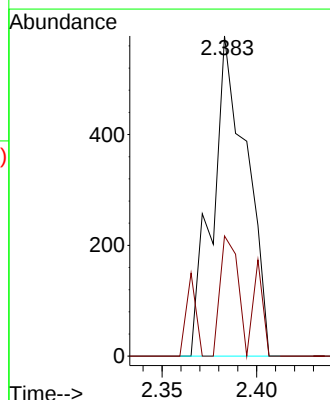
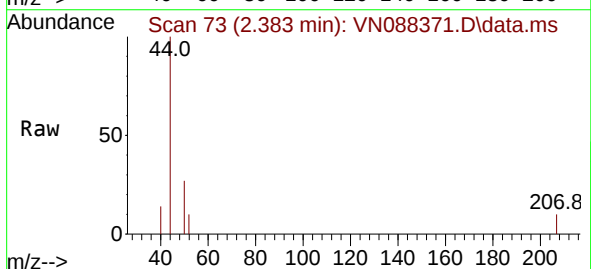
Instrument :
MSVOA_N
ClientSampleId :

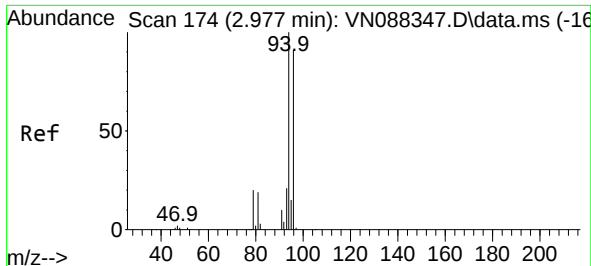
Tgt Ion:168 Resp: 169299
Ion Ratio Lower Upper
168 100
99 70.9 57.1 85.7



#3
Chloromethane
Concen: 0.267 ug/l
RT: 2.383 min Scan# 73
Delta R.T. 0.000 min
Lab File: VN088371.D
Acq: 01 Dec 2025 10:33

Tgt Ion: 50 Resp: 728
Ion Ratio Lower Upper
50 100
52 37.5 25.2 37.8

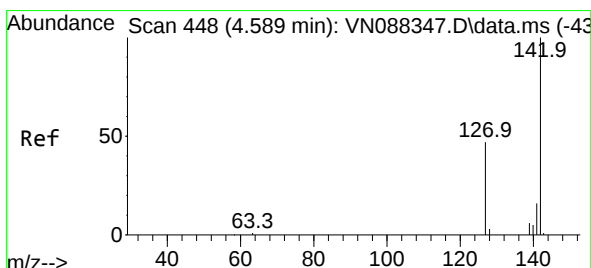
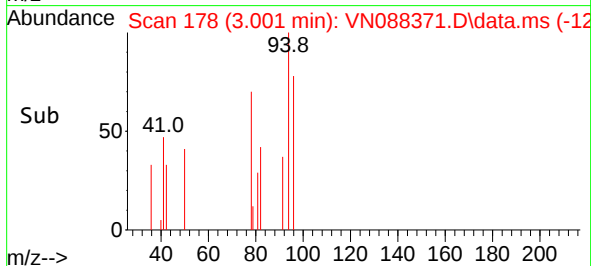
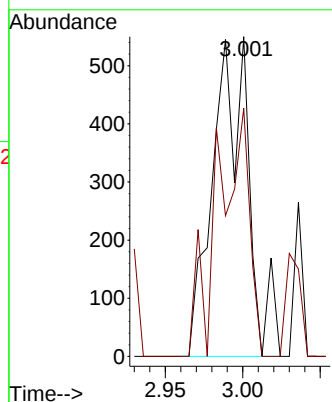
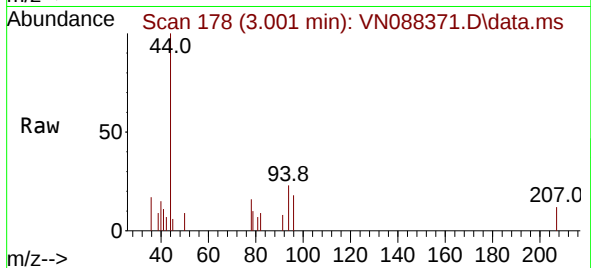




#5
Bromomethane
Concen: 0.655 ug/l
RT: 3.001 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN088371.D
Acq: 01 Dec 2025 10:33

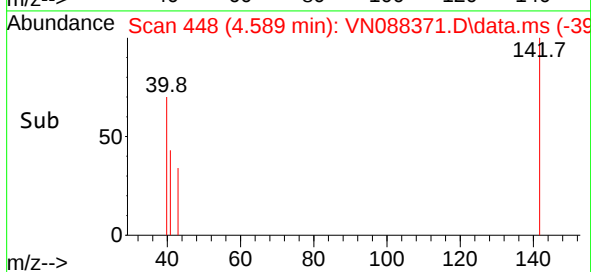
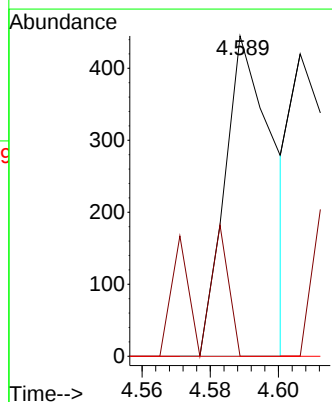
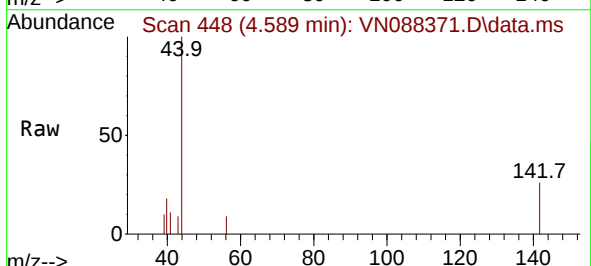
Instrument :
MSVOA_N
ClientSampleId :

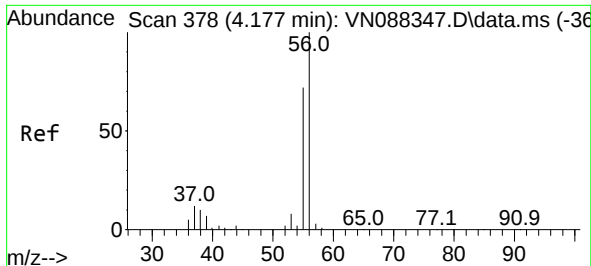
Tgt Ion: 94 Resp: 876
Ion Ratio Lower Upper
94 100
96 77.6 73.2 109.8



#10
Methyl Iodide
Concen: 0.215 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN088371.D
Acq: 01 Dec 2025 10:33

Tgt Ion:142 Resp: 442
Ion Ratio Lower Upper
142 100
127 0.0 37.9 56.9#
141 0.0 12.4 18.6#

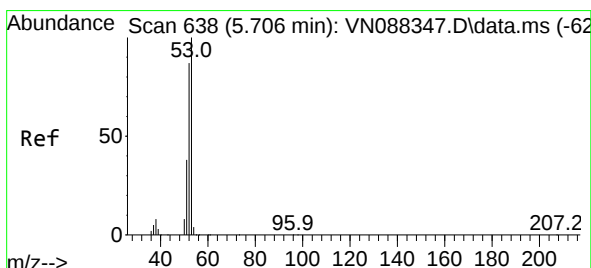
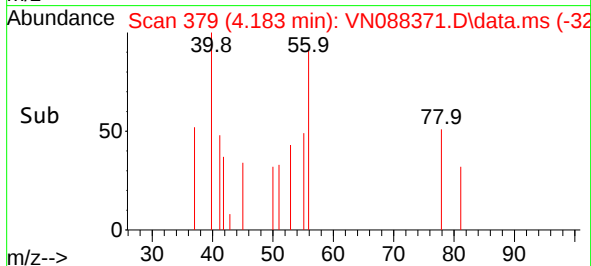
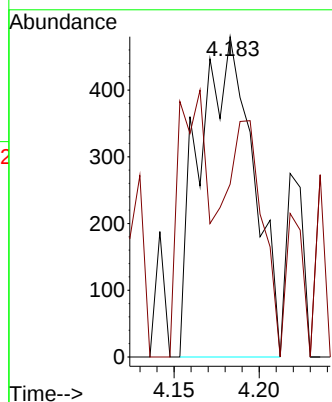
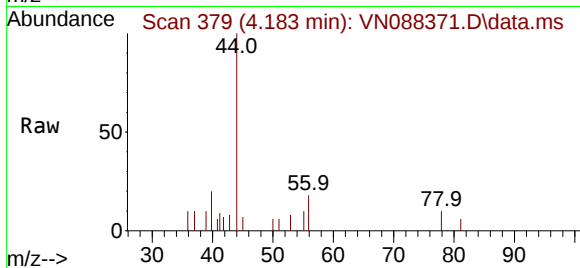




#13
Acrolein
Concen: 2.181 ug/l
RT: 4.183 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN088371.D
Acq: 01 Dec 2025 10:33

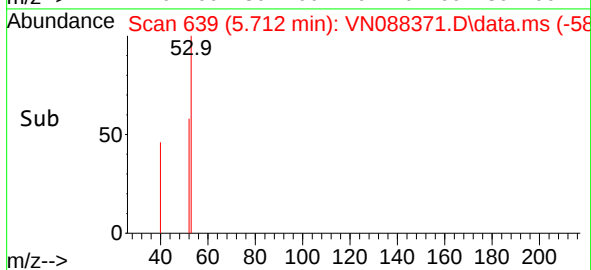
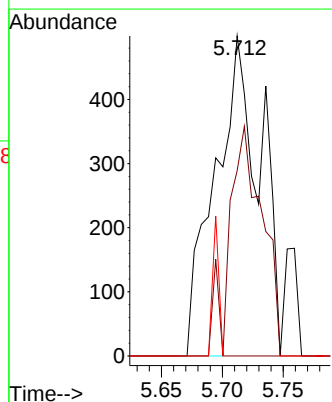
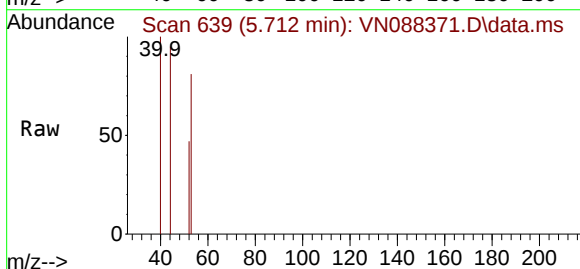
Instrument :
MSVOA_N
ClientSampleId :

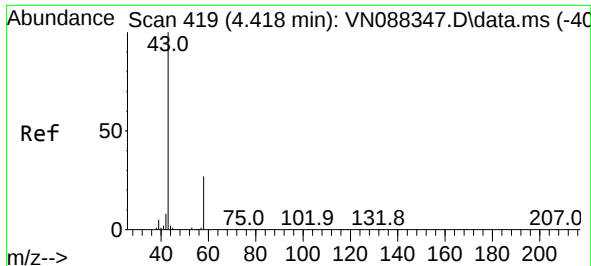
Tgt Ion: 56 Resp: 1063
Ion Ratio Lower Upper
56 100
55 44.7 56.3 84.5#



#15
Acrylonitrile
Concen: 0.873 ug/l
RT: 5.712 min Scan# 639
Delta R.T. 0.006 min
Lab File: VN088371.D
Acq: 01 Dec 2025 10:33

Tgt Ion: 53 Resp: 1283
Ion Ratio Lower Upper
53 100
52 52.6 67.8 101.6#
51 0.0 29.8 44.8#

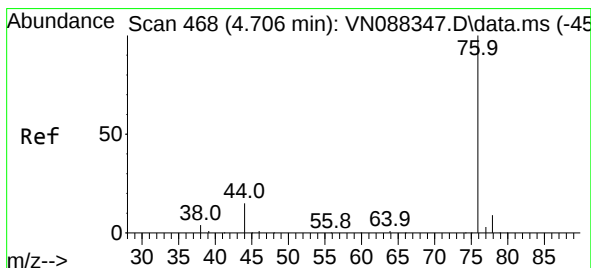
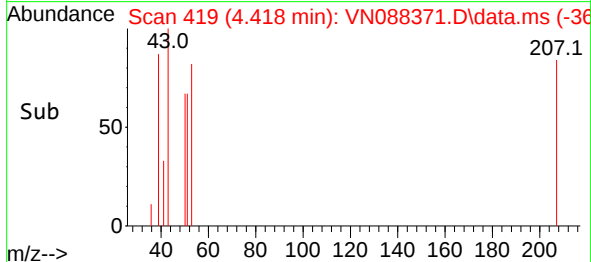
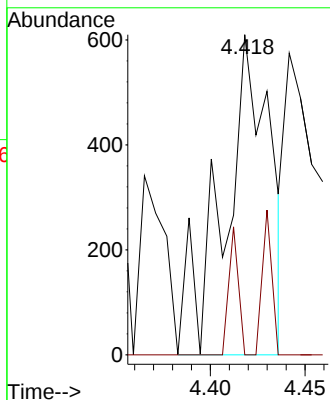
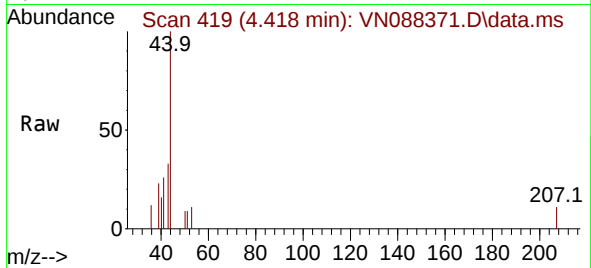




#16
Acetone
Concen: 0.894 ug/l
RT: 4.418 min Scan# 419
Delta R.T. 0.000 min
Lab File: VN088371.D
Acq: 01 Dec 2025 10:33

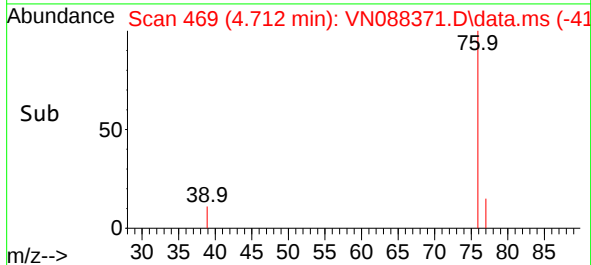
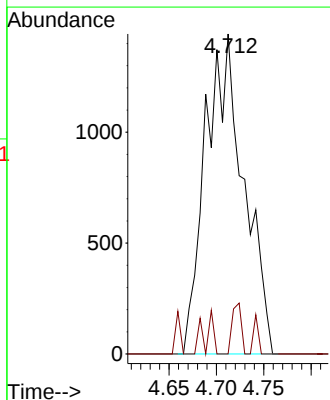
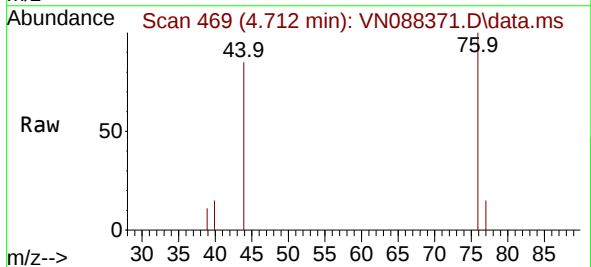
Instrument :
MSVOA_N
ClientSampleId :

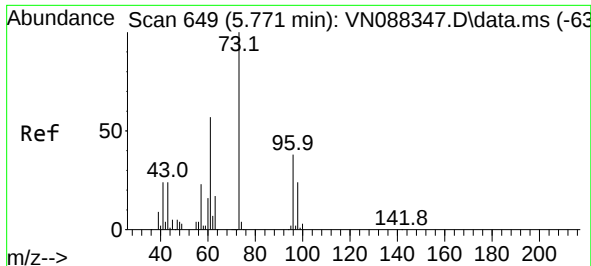
Tgt Ion: 43 Resp: 1031
Ion Ratio Lower Upper
43 100
58 0.0 21.7 32.5#



#17
Carbon Disulfide
Concen: 0.604 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.006 min
Lab File: VN088371.D
Acq: 01 Dec 2025 10:33

Tgt Ion: 76 Resp: 4080
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#

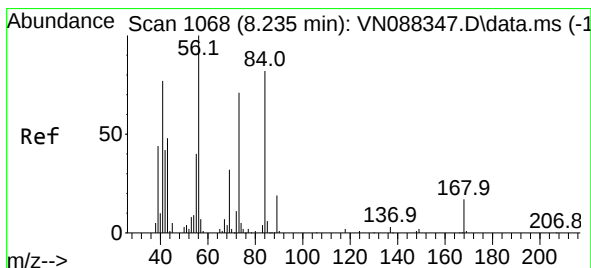
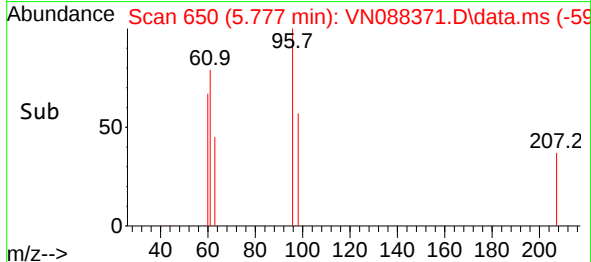
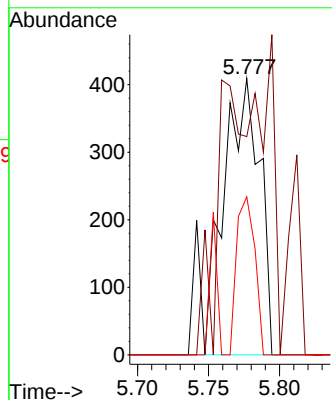
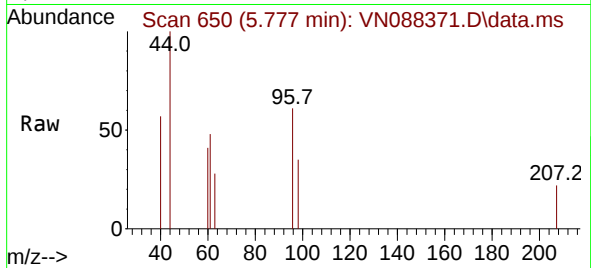




#21
trans-1,2-Dichloroethene
Concen: 0.344 ug/l
RT: 5.777 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN088371.D
Acq: 01 Dec 2025 10:33

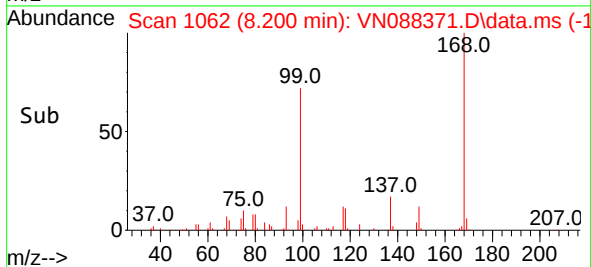
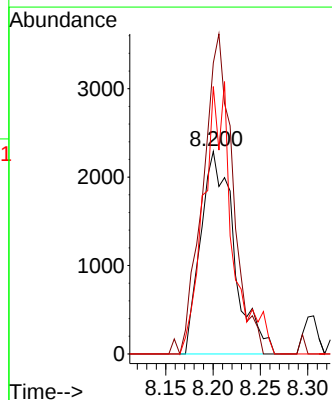
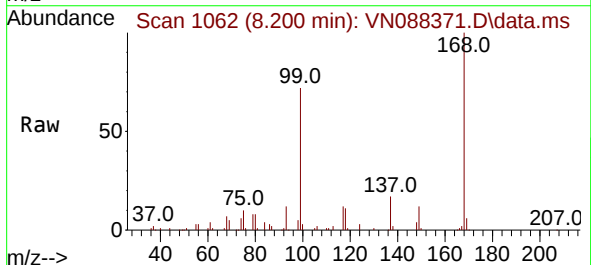
Instrument :
MSVOA_N
ClientSampleId :

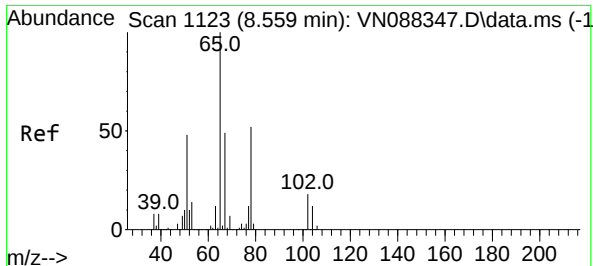
Tgt Ion: 96 Resp: 787
Ion Ratio Lower Upper
96 100
61 79.0 122.4 183.6#
98 57.2 50.9 76.3



#31
Cyclohexane
Concen: 1.341 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN088371.D
Acq: 01 Dec 2025 10:33

Tgt Ion: 56 Resp: 5625
Ion Ratio Lower Upper
56 100
69 143.6 25.3 37.9#
84 132.0 65.4 98.2#





#33

1,2-Dichloroethane-d4

Concen: 56.661 ug/l

RT: 8.553 min Scan# 1123

Delta R.T. -0.006 min

Lab File: VN088371.D

Acq: 01 Dec 2025 10:33

Instrument :

MSVOA_N

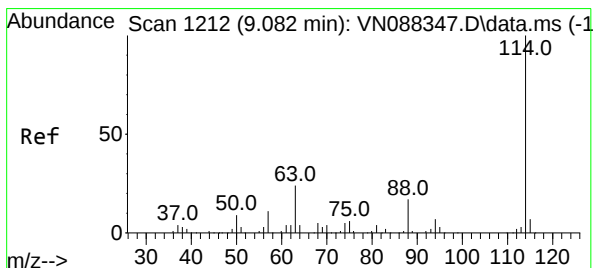
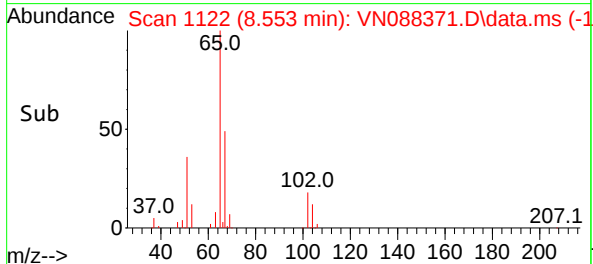
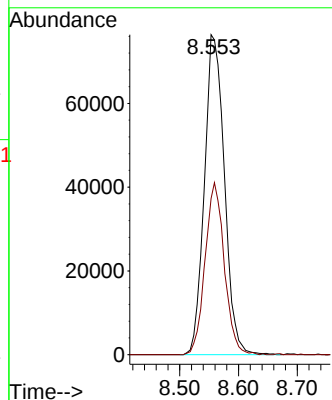
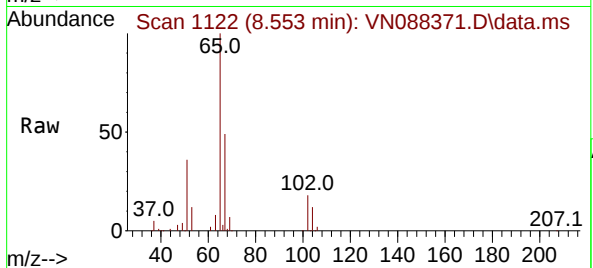
ClientSampleId :

Tgt Ion: 65 Resp: 180706

Ion Ratio Lower Upper

65 100

67 51.7 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN088371.D

Acq: 01 Dec 2025 10:33

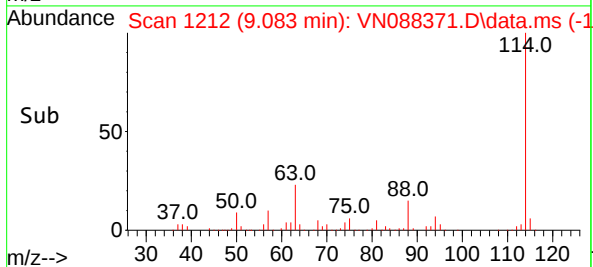
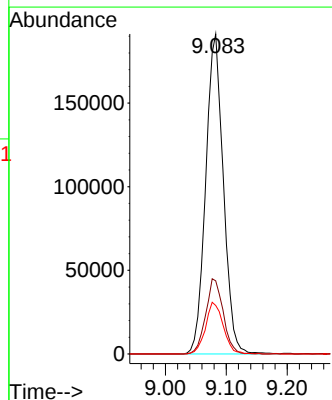
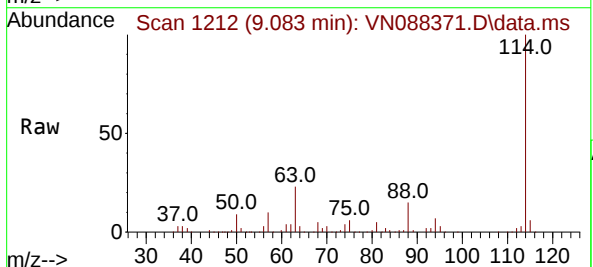
Tgt Ion: 114 Resp: 384956

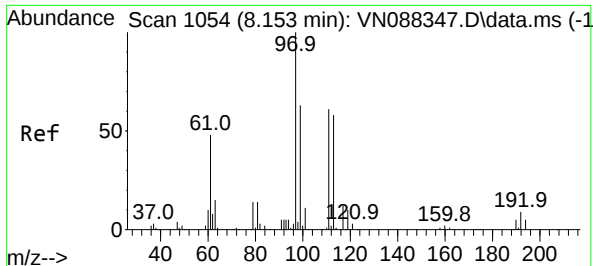
Ion Ratio Lower Upper

114 100

63 22.8 0.0 49.0

88 15.2 0.0 34.0





#35

Dibromofluoromethane

Concen: 52.768 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088371.D

Acq: 01 Dec 2025 10:33

Instrument :

MSVOA_N

ClientSampleId :

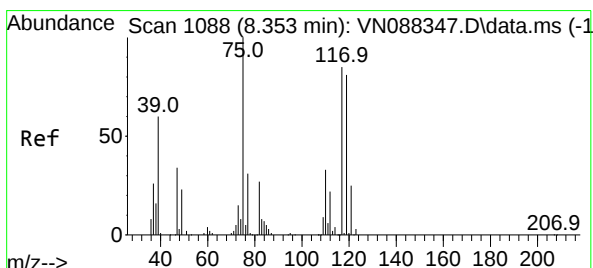
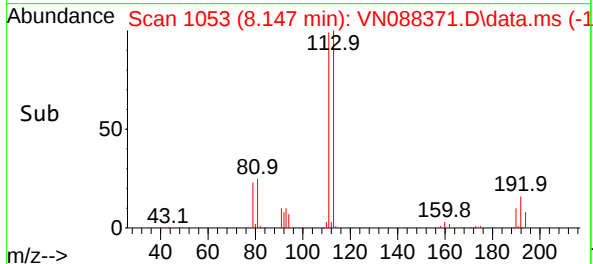
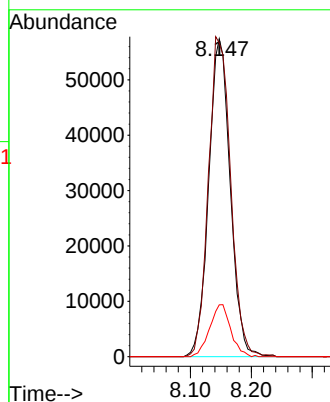
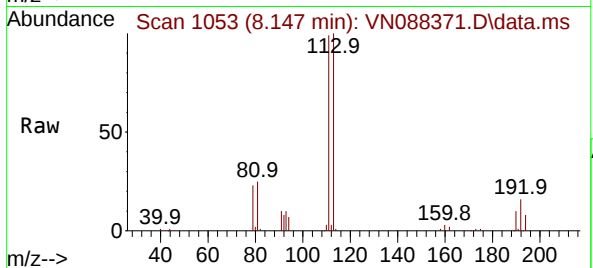
Tgt Ion:113 Resp: 140771

Ion Ratio Lower Upper

113 100

111 103.9 82.5 123.7

192 16.1 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.210 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088371.D

Acq: 01 Dec 2025 10:33

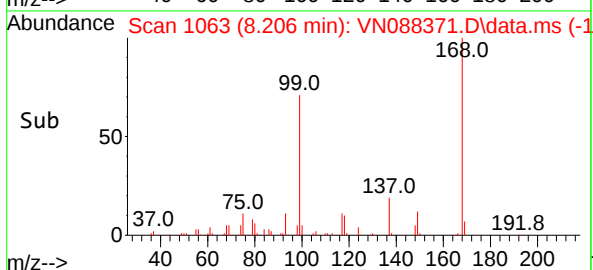
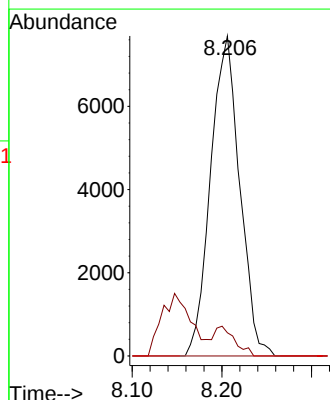
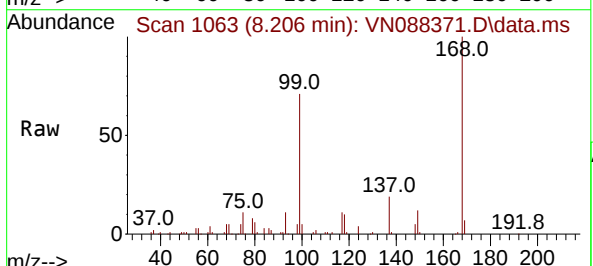
Tgt Ion: 75 Resp: 17332

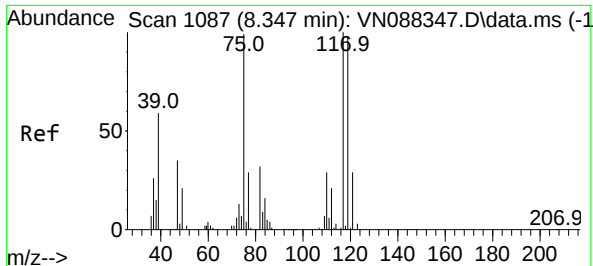
Ion Ratio Lower Upper

75 100

110 6.1 15.8 47.4#

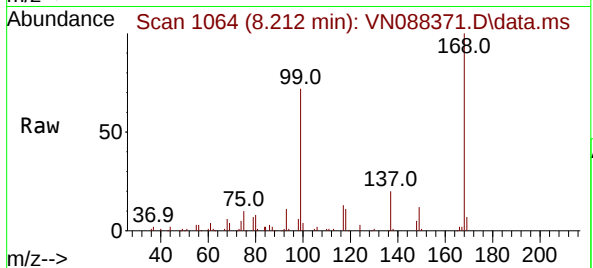
77 0.0 24.2 36.2#



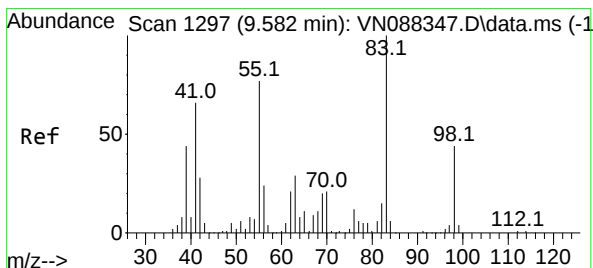
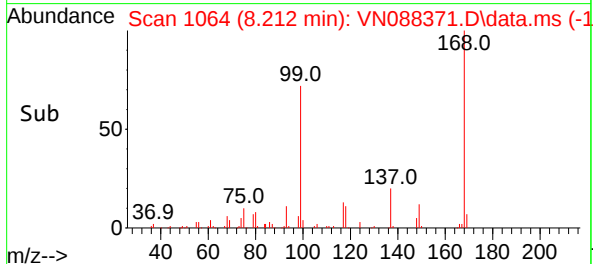
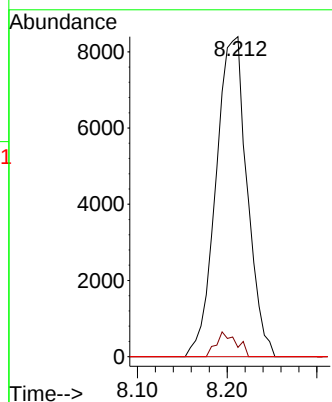


#38
Carbon Tetrachloride
Concen: 4.939 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.135 min
Lab File: VN088371.D
Acq: 01 Dec 2025 10:33

Instrument :
MSVOA_N
ClientSampleId :

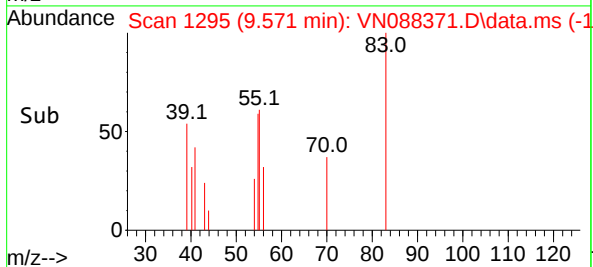
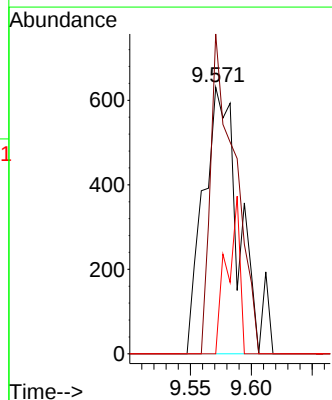
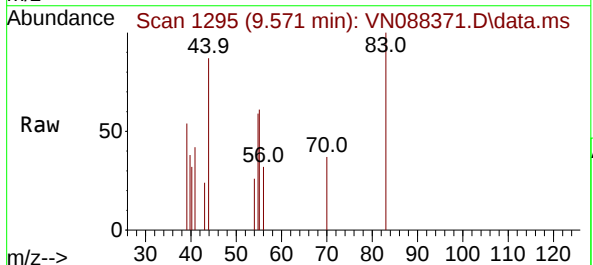


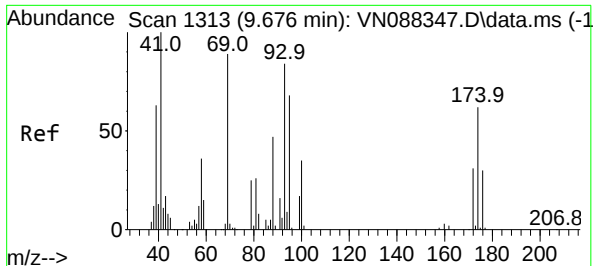
Tgt Ion: 117 Resp: 20244
Ion Ratio Lower Upper
117 100
119 2.9 78.2 117.4#
121 0.0 23.4 35.2#



#39
Methylcyclohexane
Concen: 0.293 ug/l
RT: 9.571 min Scan# 1295
Delta R.T. -0.012 min
Lab File: VN088371.D
Acq: 01 Dec 2025 10:33

Tgt Ion: 83 Resp: 1291
Ion Ratio Lower Upper
83 100
55 120.0 61.6 92.4#
98 0.0 35.3 52.9#





#49

1,4-Dioxane

Concen: 2.604 ug/l

RT: 9.671 min Scan# 1

Delta R.T. -0.006 min

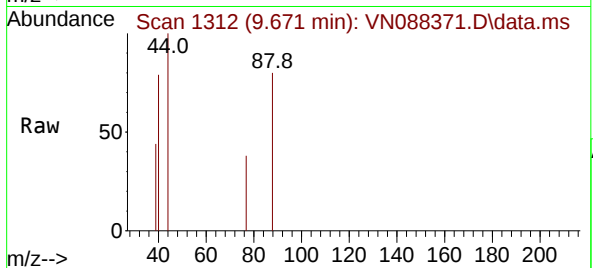
Lab File: VN088371.D

Acq: 01 Dec 2025 10:33

Instrument :

MSVOA_N

ClientSampleId :



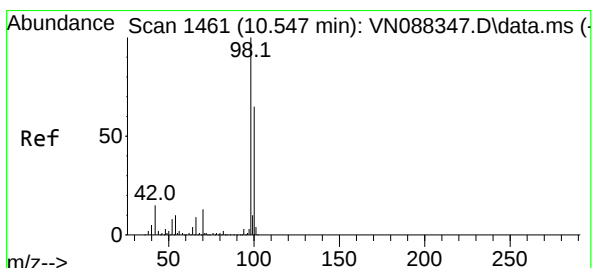
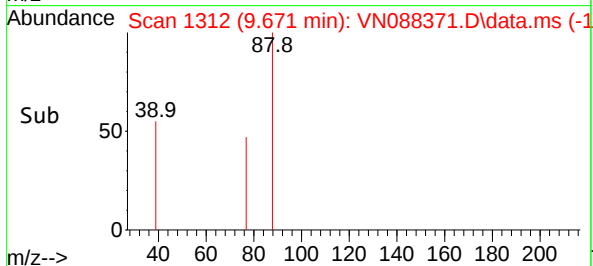
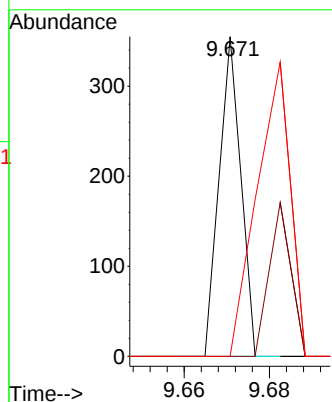
Tgt Ion: 88 Resp: 125

Ion Ratio Lower Upper

88 100

43 48.0 0.0 0.0#

58 141.6 62.0 93.0#



#50

Toluene-d8

Concen: 50.348 ug/l

RT: 10.541 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VN088371.D

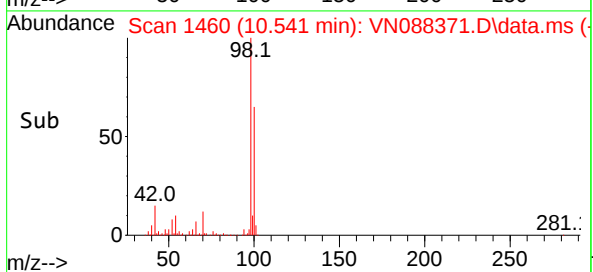
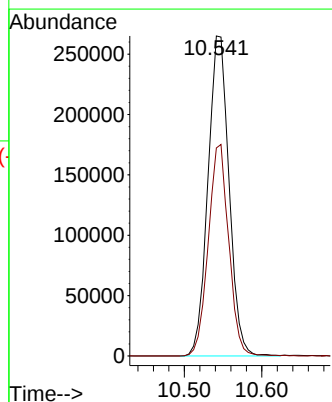
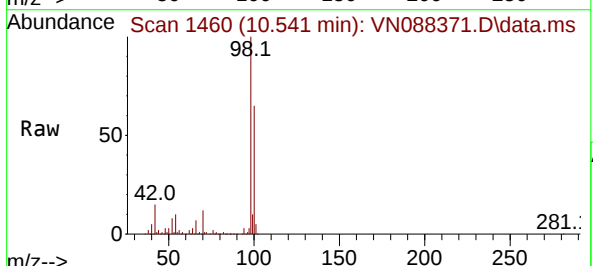
Acq: 01 Dec 2025 10:33

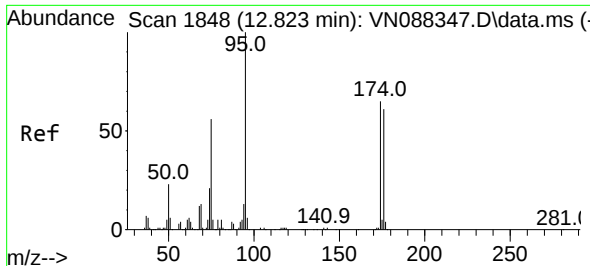
Tgt Ion: 98 Resp: 499751

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.2

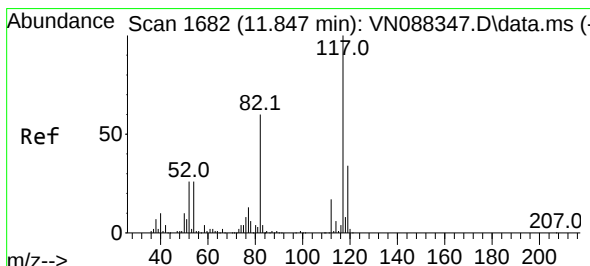
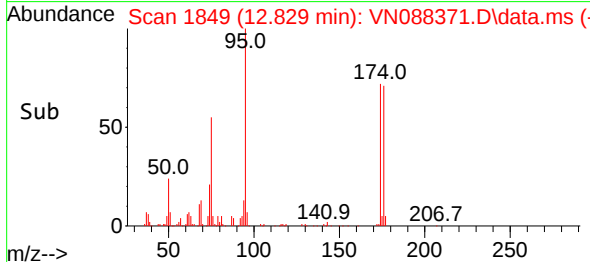
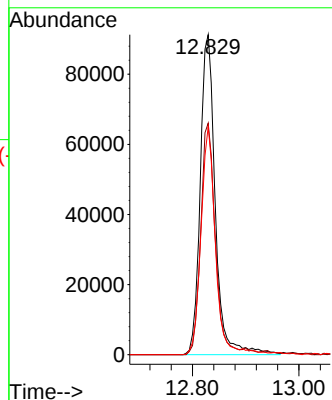
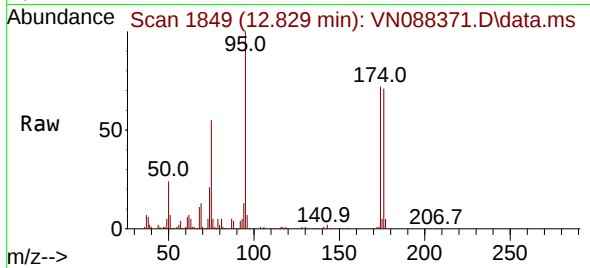




#62
4-Bromofluorobenzene
Concen: 52.480 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088371.D
Acq: 01 Dec 2025 10:33

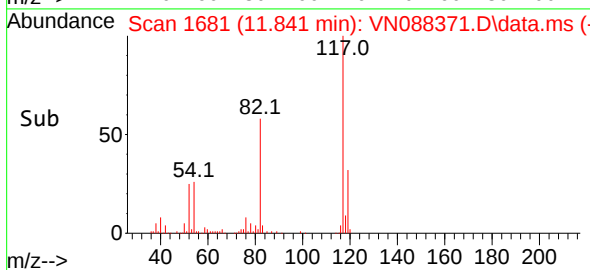
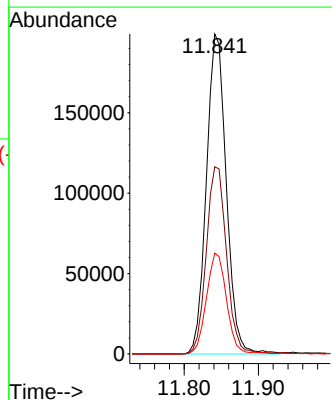
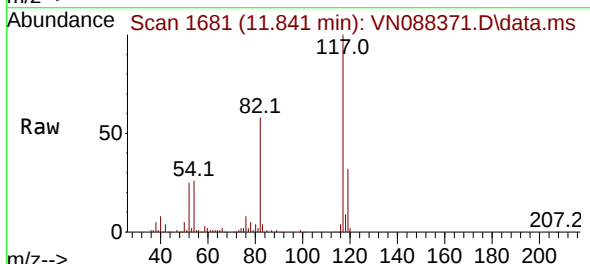
Instrument :
MSVOA_N
ClientSampleId :

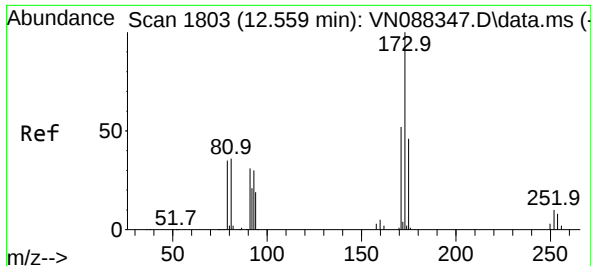
Tgt Ion: 95 Resp: 178735
Ion Ratio Lower Upper
95 100
174 69.5 0.0 139.0
176 68.9 0.0 132.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088371.D
Acq: 01 Dec 2025 10:33

Tgt Ion: 117 Resp: 371379
Ion Ratio Lower Upper
117 100
82 58.5 47.8 71.8
119 31.5 26.9 40.3

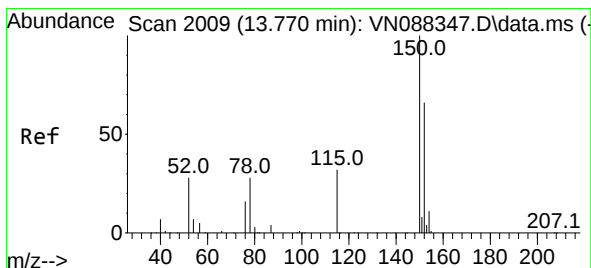
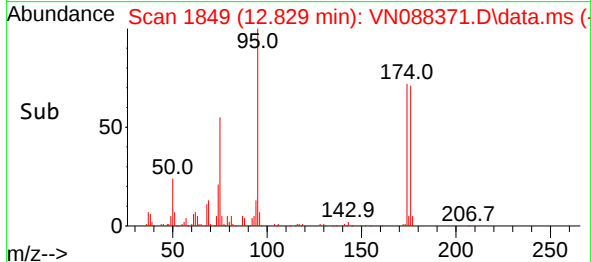
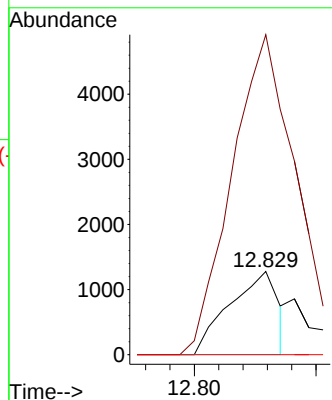
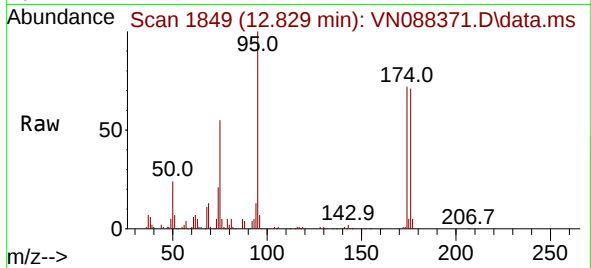




#71
Bromoform
Concen: 0.866 ug/l
RT: 12.829 min Scan# 1803
Delta R.T. 0.271 min
Lab File: VN088371.D
Acq: 01 Dec 2025 10:33

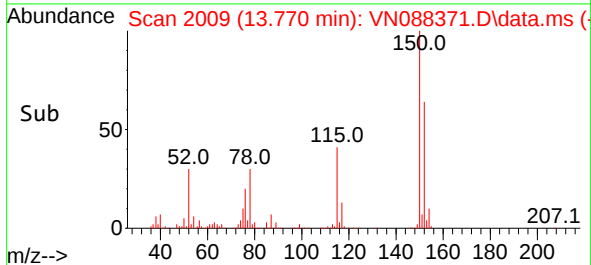
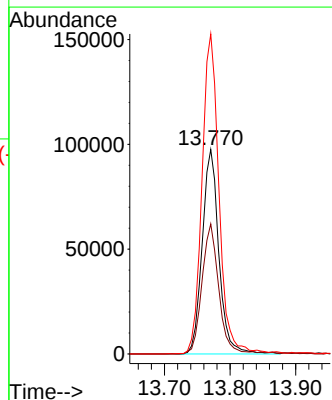
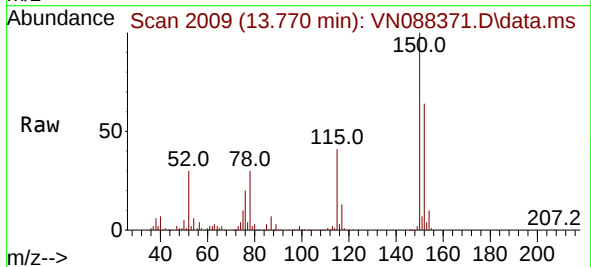
Instrument :
MSVOA_N
ClientSampleId :

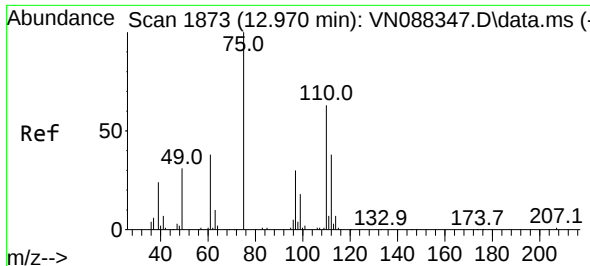
Tgt Ion:173 Resp: 1784
Ion Ratio Lower Upper
173 100
175 385.4 23.9 71.8#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088371.D
Acq: 01 Dec 2025 10:33

Tgt Ion:152 Resp: 173172
Ion Ratio Lower Upper
152 100
115 64.4 33.0 98.9
150 159.7 0.0 349.0

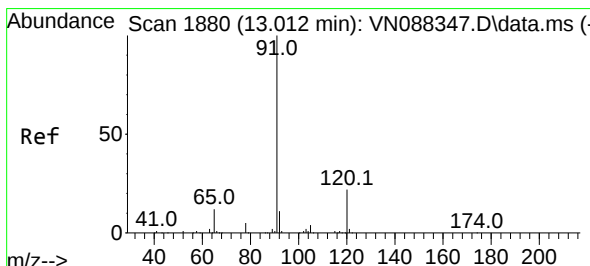
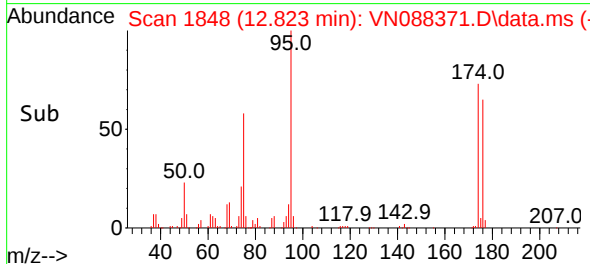
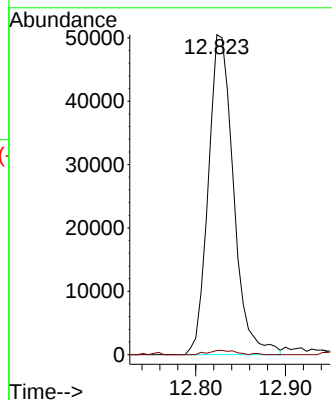
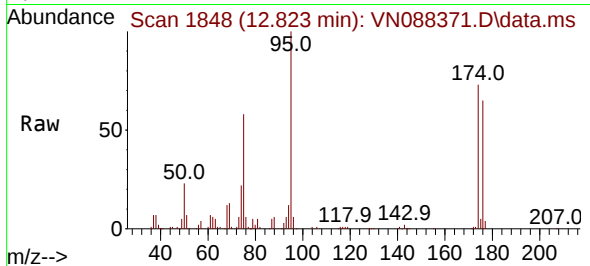




#76
1,2,3-Trichloropropane
Concen: 24.325 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.147 min
Lab File: VN088371.D
Acq: 01 Dec 2025 10:33

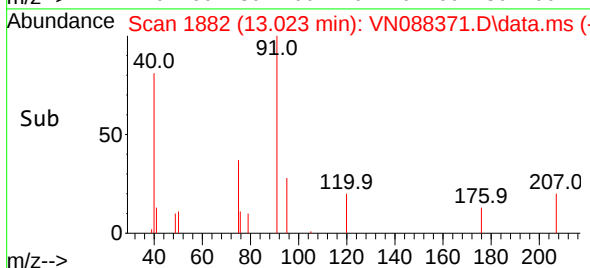
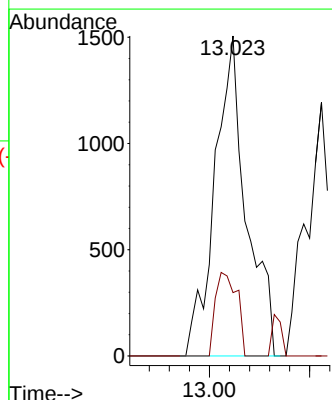
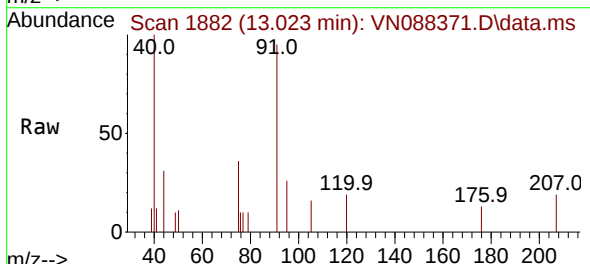
Instrument :
MSVOA_N
ClientSampleId :

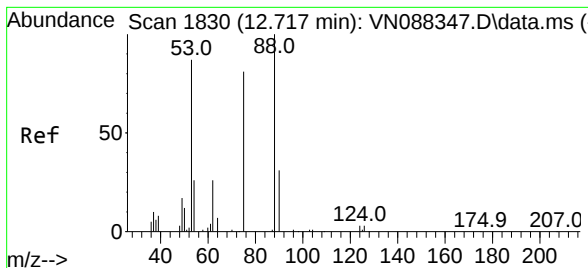
Tgt Ion: 75 Resp: 98661
Ion Ratio Lower Upper
75 100
77 1.4 87.2 261.6#



#78
n-propylbenzene
Concen: 0.210 ug/l
RT: 13.023 min Scan# 1882
Delta R.T. 0.012 min
Lab File: VN088371.D
Acq: 01 Dec 2025 10:33

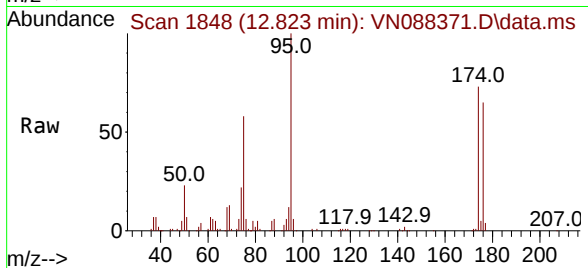
Tgt Ion: 91 Resp: 3290
Ion Ratio Lower Upper
91 100
120 17.7 10.9 32.6



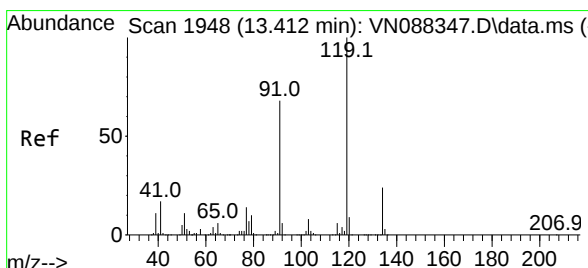
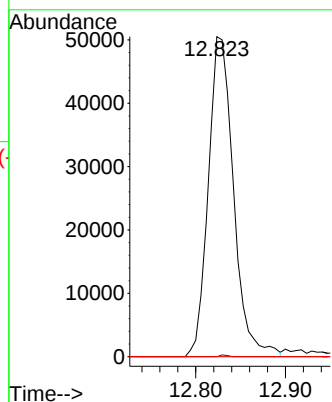
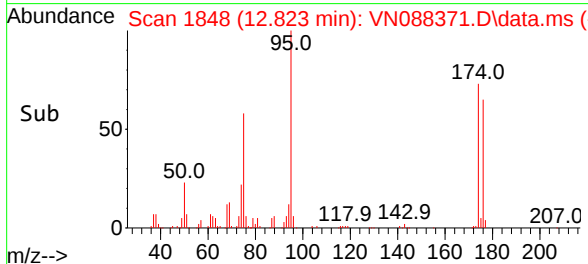


#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.008 ug/l
 RT: 12.823 min Scan# 1848
 Delta R.T. 0.106 min
 Lab File: VN088371.D
 Acq: 01 Dec 2025 10:33

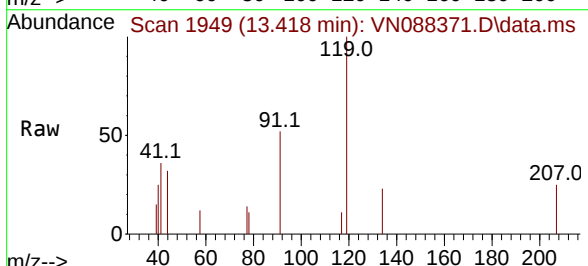
Instrument :
 MSVOA_N
 ClientSampleId :



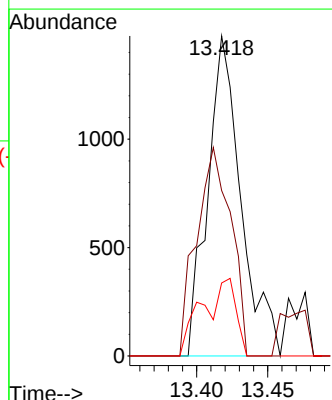
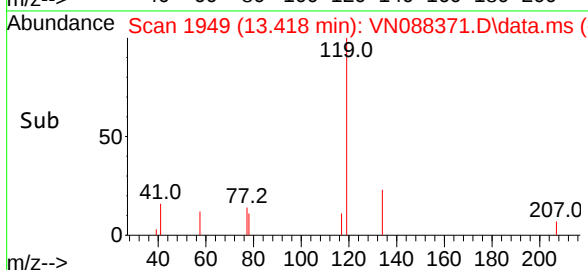
Tgt Ion: 75 Resp: 98661
 Ion Ratio Lower Upper
 75 100
 53 0.2 92.2 138.4#
 89 0.0 0.0 0.0

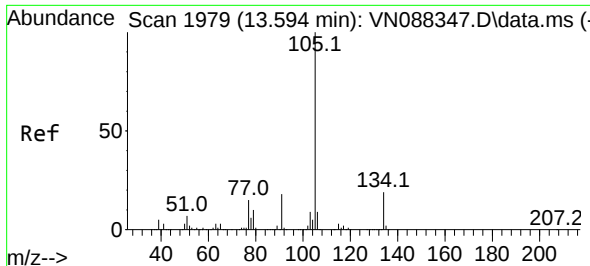


#83
 tert-Butylbenzene
 Concen: 0.267 ug/l
 RT: 13.418 min Scan# 1949
 Delta R.T. 0.006 min
 Lab File: VN088371.D
 Acq: 01 Dec 2025 10:33



Tgt Ion: 119 Resp: 2404
 Ion Ratio Lower Upper
 119 100
 91 67.5 35.1 105.3
 134 24.3 12.8 38.4

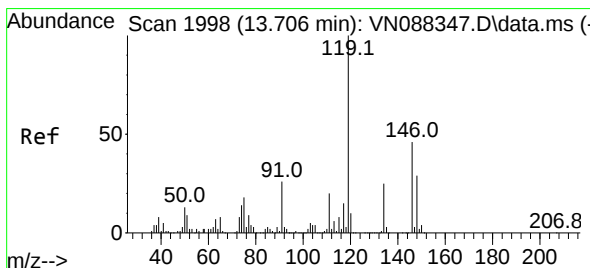
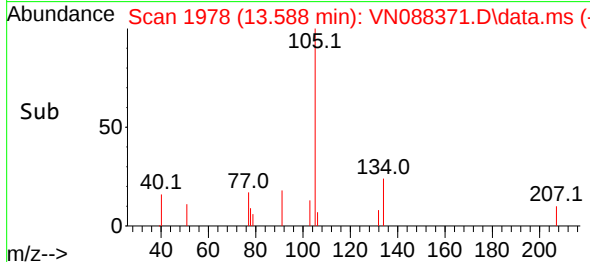
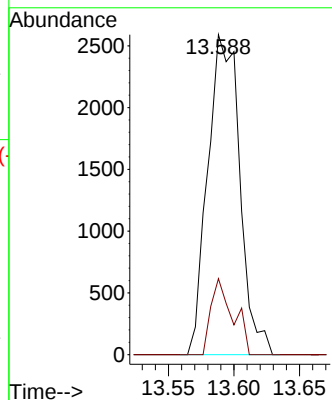
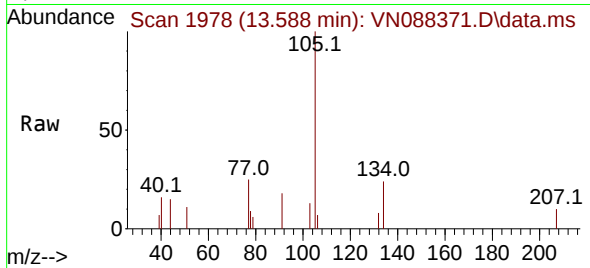




#85
 sec-Butylbenzene
 Concen: 0.339 ug/l
 RT: 13.588 min Scan# 1978
 Delta R.T. -0.006 min
 Lab File: VN088371.D
 Acq: 01 Dec 2025 10:33

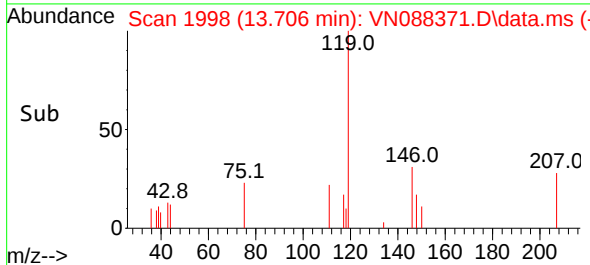
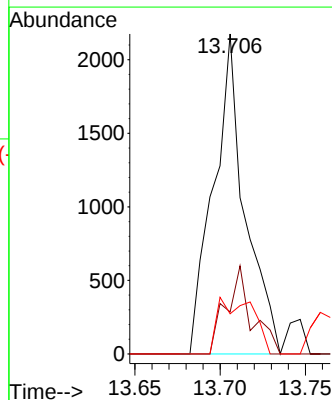
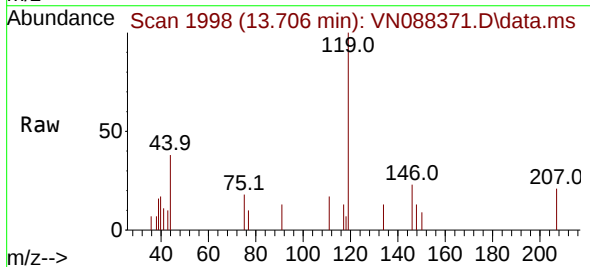
Instrument :
 MSVOA_N
 ClientSampleId :

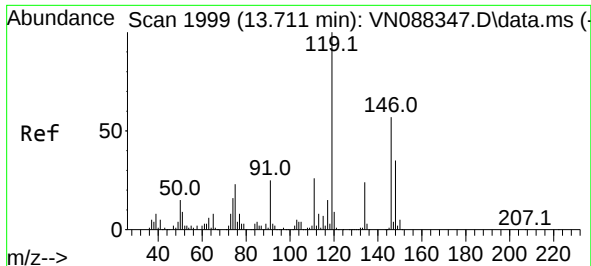
Tgt Ion:105 Resp: 4388
 Ion Ratio Lower Upper
 105 100
 134 16.4 9.5 28.5



#86
 p-Isopropyltoluene
 Concen: 0.263 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. 0.000 min
 Lab File: VN088371.D
 Acq: 01 Dec 2025 10:33

Tgt Ion:119 Resp: 2790
 Ion Ratio Lower Upper
 119 100
 134 22.5 12.2 36.6
 91 19.6 13.0 39.0





#87

1,3-Dichlorobenzene

Concen: 0.250 ug/l

RT: 13.718 min Scan# 2000

Delta R.T. 0.006 min

Lab File: VN088371.D

Acq: 01 Dec 2025 10:33

Instrument :

MSVOA_N

ClientSampleId :

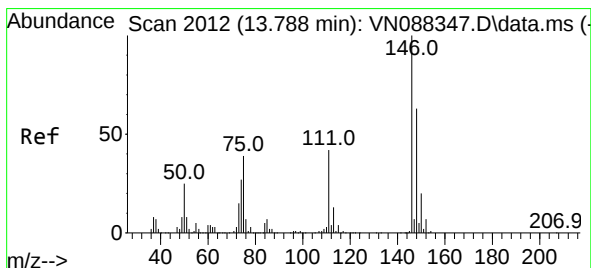
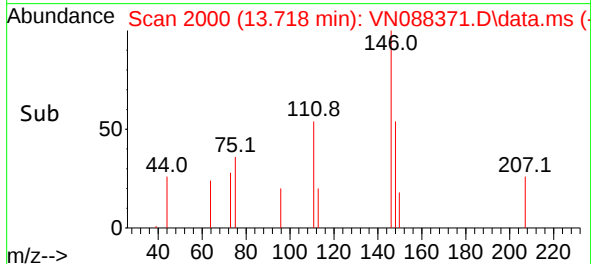
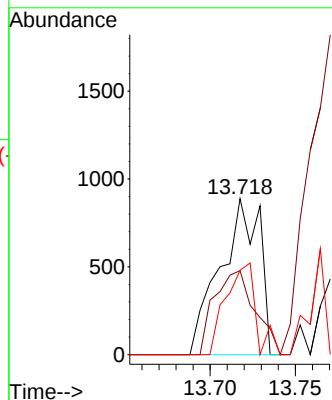
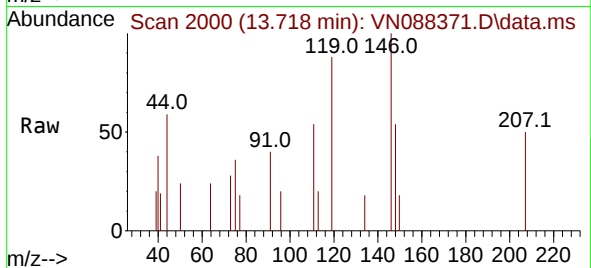
Tgt Ion:146 Resp: 1428

Ion Ratio Lower Upper

146 100

111 55.4 22.4 67.0

148 44.5 31.6 94.8



#88

1,4-Dichlorobenzene

Concen: 0.239 ug/l

RT: 13.718 min Scan# 2000

Delta R.T. -0.070 min

Lab File: VN088371.D

Acq: 01 Dec 2025 10:33

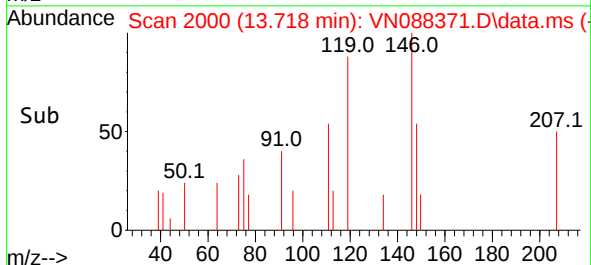
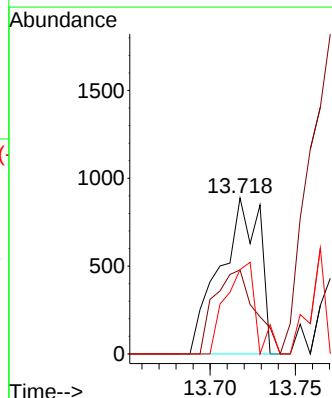
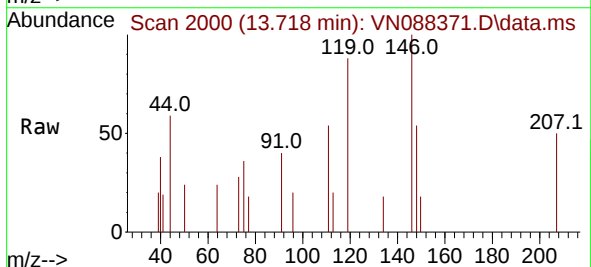
Tgt Ion:146 Resp: 1428

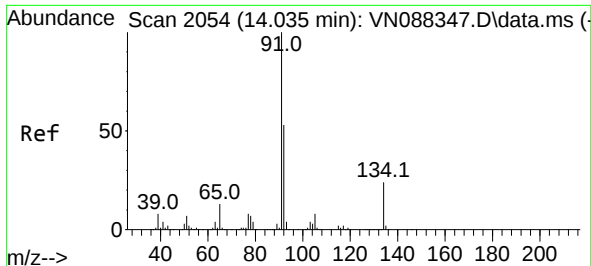
Ion Ratio Lower Upper

146 100

111 55.4 21.6 64.6

148 44.5 31.0 93.0





#89

n-Butylbenzene

Concen: 0.464 ug/l

RT: 14.041 min Scan# 2054

Delta R.T. 0.006 min

Lab File: VN088371.D

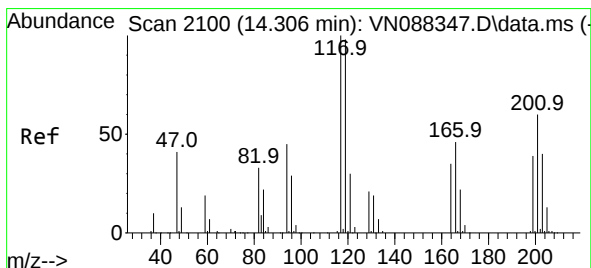
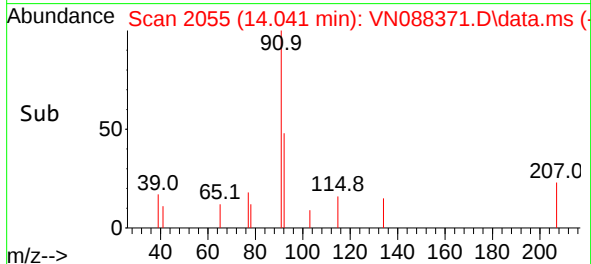
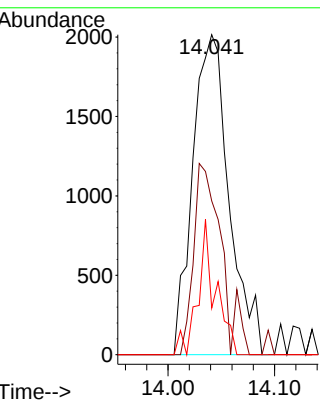
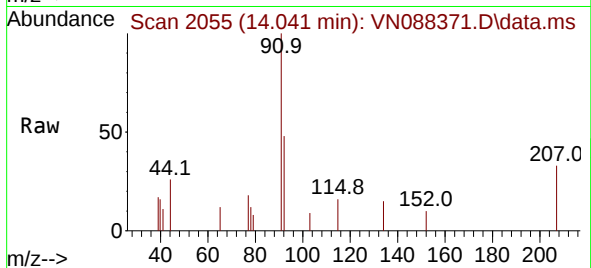
Acq: 01 Dec 2025 10:33

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 91	Resp: 4784
Ion Ratio	Lower Upper
91	100
92	45.5 26.1 78.3
134	20.4 11.7 35.1



#90

Hexachloroethane

Concen: 0.256 ug/l

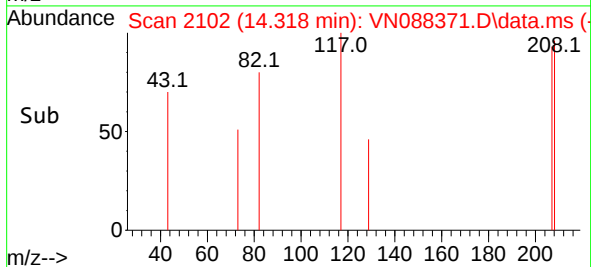
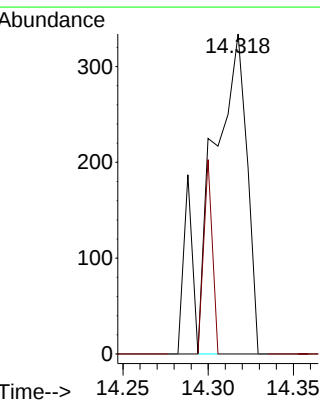
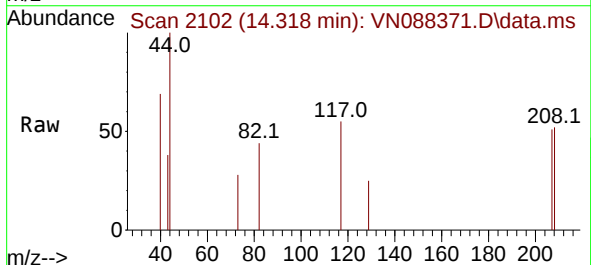
RT: 14.318 min Scan# 2102

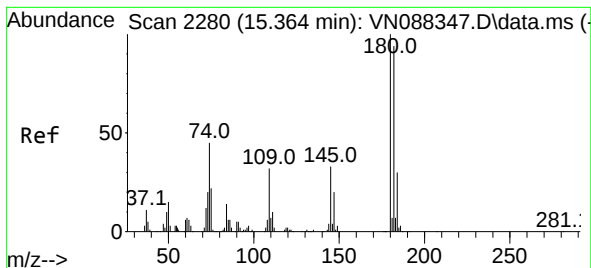
Delta R.T. 0.012 min

Lab File: VN088371.D

Acq: 01 Dec 2025 10:33

Tgt Ion: 117	Resp: 497
Ion Ratio	Lower Upper
117	100
201	14.5 30.3 90.9#





#93

1,2,4-Trichlorobenzene

Concen: 0.494 ug/l

RT: 15.370 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN088371.D

Acq: 01 Dec 2025 10:33

Instrument :

MSVOA_N

ClientSampleId :

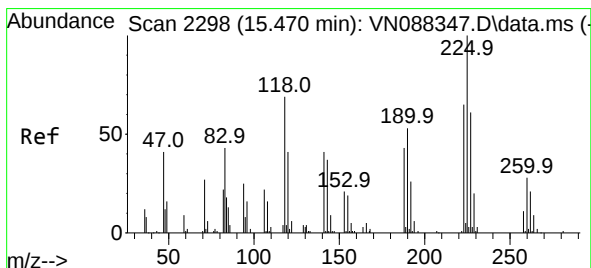
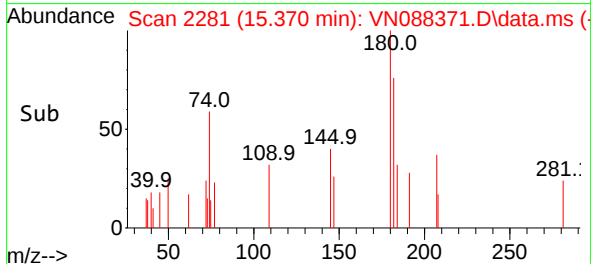
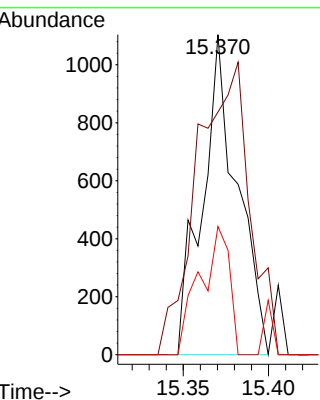
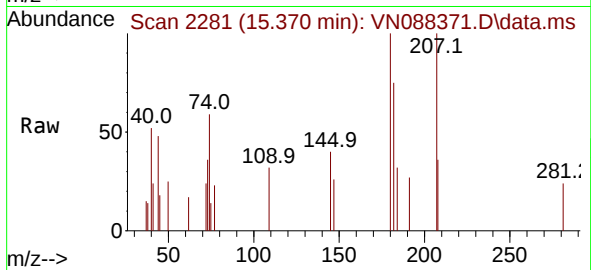
Tgt Ion:180 Resp: 1576

Ion Ratio Lower Upper

180 100

182 136.7 46.1 138.2

145 33.9 16.7 50.1



#94

Hexachlorobutadiene

Concen: 2.015 ug/l

RT: 15.464 min Scan# 2297

Delta R.T. -0.006 min

Lab File: VN088371.D

Acq: 01 Dec 2025 10:33

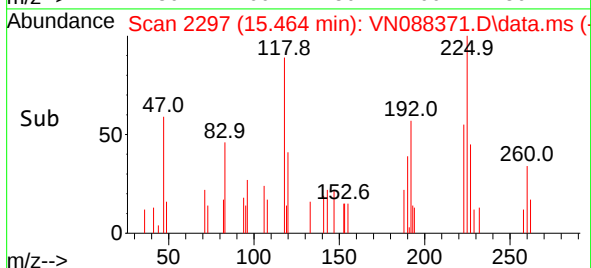
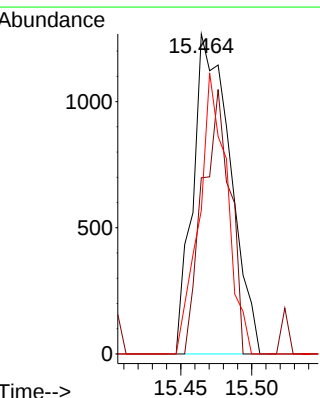
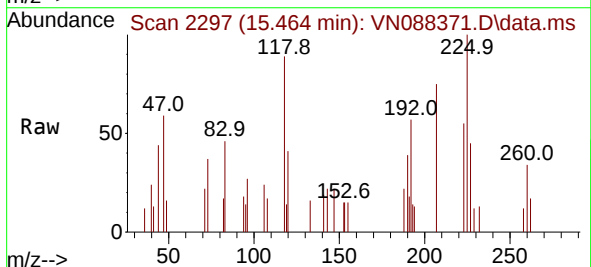
Tgt Ion:225 Resp: 2309

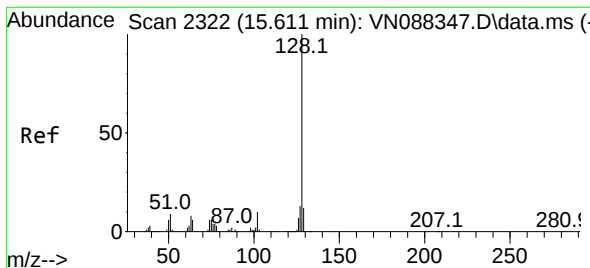
Ion Ratio Lower Upper

225 100

223 61.1 32.3 96.8

227 66.0 29.9 89.8





#95

Naphthalene

Concen: 0.490 ug/l

RT: 15.629 min Scan# 21

Delta R.T. 0.018 min

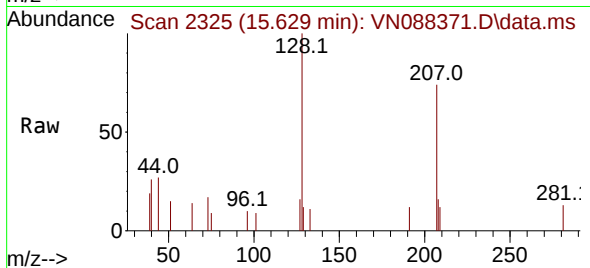
Lab File: VN088371.D

Acq: 01 Dec 2025 10:33

Instrument :

MSVOA_N

ClientSampleId :



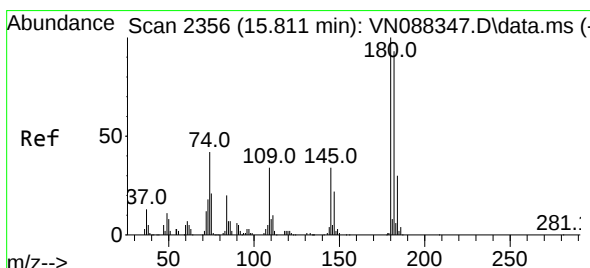
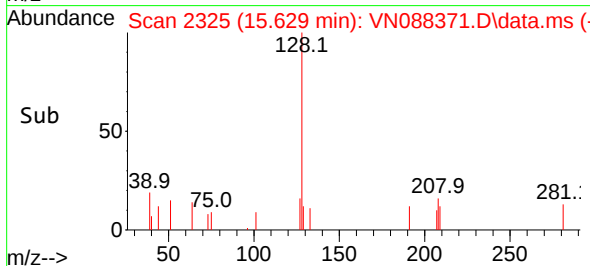
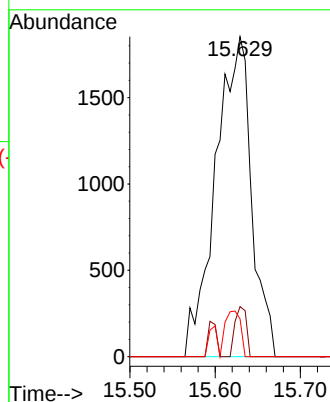
Tgt Ion:128 Resp: 5417

Ion Ratio Lower Upper

128 100

127 4.9 10.4 15.6#

129 6.1 9.0 13.6#



#96

1,2,3-Trichlorobenzene

Concen: 0.734 ug/l

RT: 15.806 min Scan# 2355

Delta R.T. -0.006 min

Lab File: VN088371.D

Acq: 01 Dec 2025 10:33

Tgt Ion:180 Resp: 2279

Ion Ratio Lower Upper

180 100

182 101.9 45.9 137.7

145 37.0 17.8 53.4

