

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111225\
 Data File : VN088266.D
 Acq On : 12 Nov 2025 10:41
 Operator : JC\MD
 Sample : VN1112MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1112MBL01

Quant Time: Nov 14 00:09:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 03 01:16:06 2025
 Response via : Initial Calibration

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

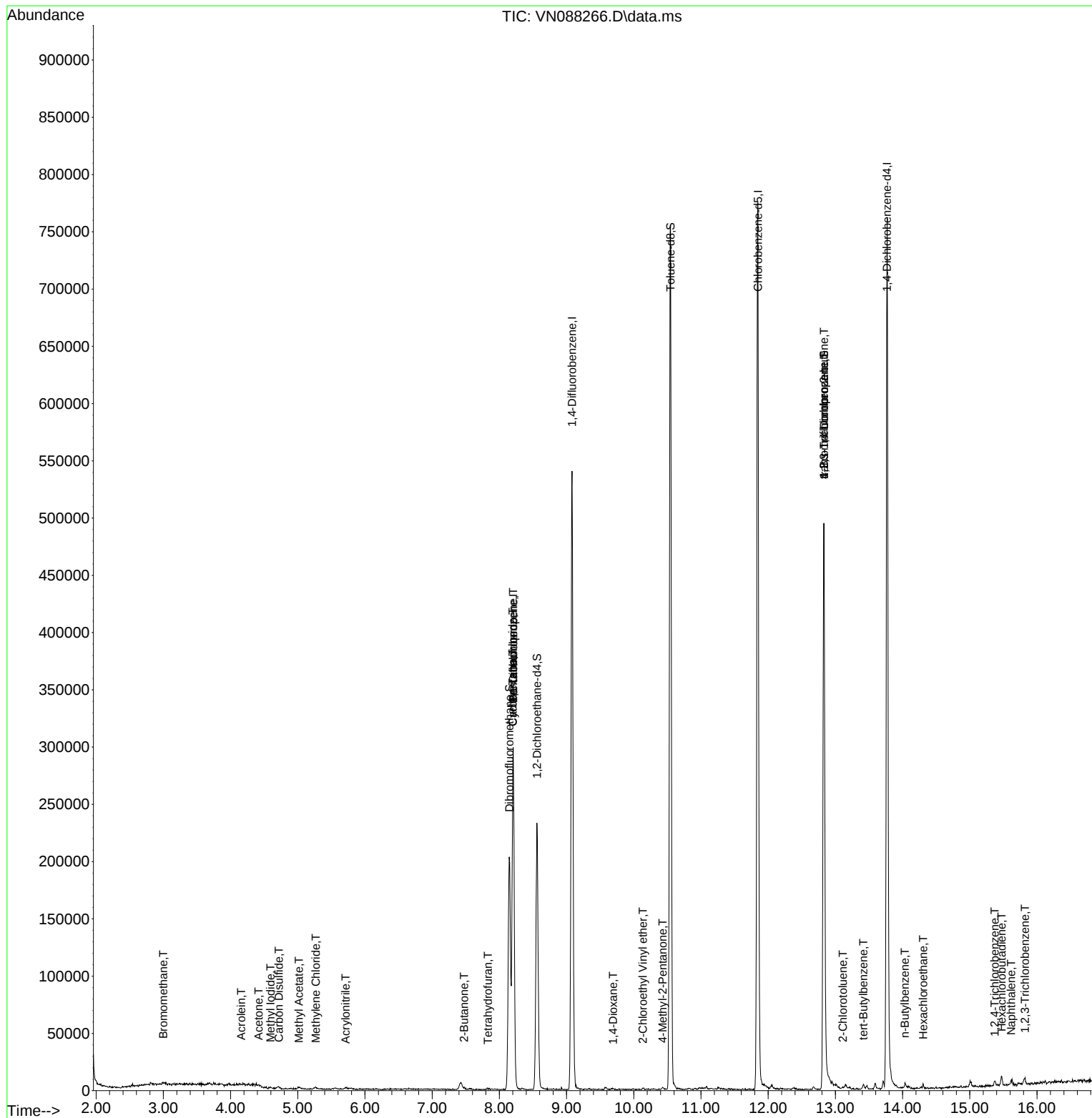
Internal Standards						
1) Pentafluorobenzene	8.206	168	195618	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	433845	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	420389	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	198881	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	193619	57.239	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.480%			
35) Dibromofluoromethane	8.147	113	147454	50.592	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.180%			
50) Toluene-d8	10.547	98	511876	45.579	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 91.160%			
62) 4-Bromofluorobenzene	12.829	95	187331	47.232	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.460%			
Target Compounds					Qvalue	
5) Bromomethane	3.000	94	1275	0.754	ug/l #	39
10) Methyl Iodide	4.594	142	985	0.463	ug/l #	38
13) Acrolein	4.159	56	359	0.548	ug/l #	45
15) Acrylonitrile	5.712	53	1540	0.970	ug/l #	75
16) Acetone	4.418	43	2519	1.482	ug/l #	75
17) Carbon Disulfide	4.718	76	2980	0.399	ug/l #	91
18) Methyl Acetate	5.018	43	2087	0.600	ug/l #	68
20) Methylene Chloride	5.271	84	620	0.217	ug/l #	74
25) 2-Butanone	7.477	43	1496	0.668	ug/l #	50
29) Tetrahydrofuran	7.830	42	363	0.249	ug/l #	65
31) Cyclohexane	8.200	56	6085	1.285	ug/l #	17
36) 1,1-Dichloropropene	8.206	75	19495	4.581	ug/l #	50
38) Carbon Tetrachloride	8.200	117	23756	5.405	ug/l #	17
49) 1,4-Dioxane	9.694	88	254	5.242	ug/l #	47
51) 4-Methyl-2-Pentanone	10.429	43	1400	0.280	ug/l #	71
58) 2-Chloroethyl Vinyl ether	10.135	63	687	0.275	ug/l #	49
76) 1,2,3-Trichloropropane	12.829	75	109204	24.017	ug/l #	1
79) 2-Chlorotoluene	13.112	91	2172	0.203	ug/l	74
81) trans-1,4-Dichloro-2-b...	12.829	75	109204	66.995	ug/l #	1
83) tert-Butylbenzene	13.417	119	2473	0.217	ug/l	96
89) n-Butylbenzene	14.035	91	2967	0.223	ug/l	92
90) Hexachloroethane	14.306	117	920	0.354	ug/l	66
93) 1,2,4-Trichlorobenzene	15.370	180	1614	0.419	ug/l	98
94) Hexachlorobutadiene	15.476	225	1667	1.161	ug/l	95
95) Naphthalene	15.617	128	4071	0.308	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.823	180	1842	0.498	ug/l	93

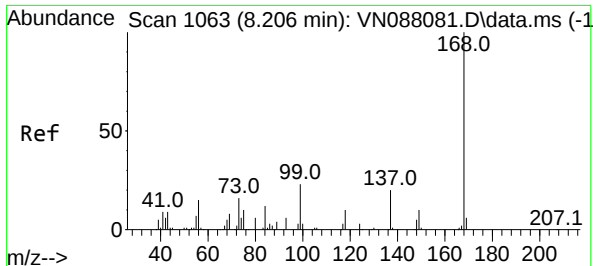
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 12 Nov 2025 10:41
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Quant Title : SW846 8260
QLast Update : Mon Nov 03 01:16:06 2025
Response via : Initial Calibration

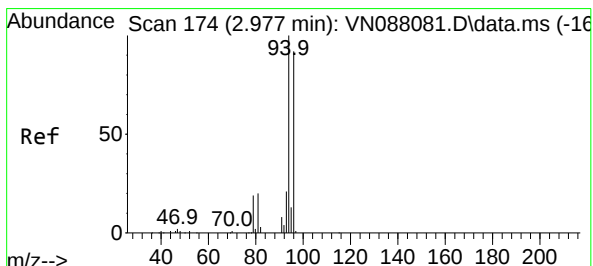
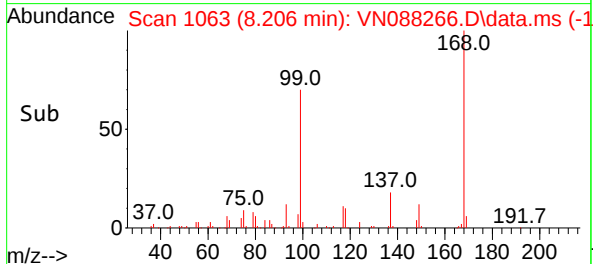
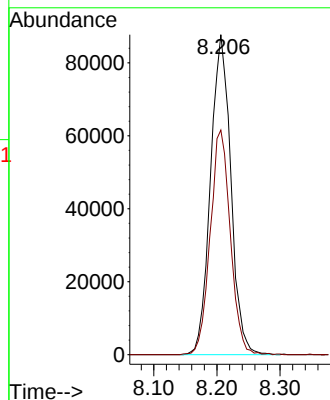
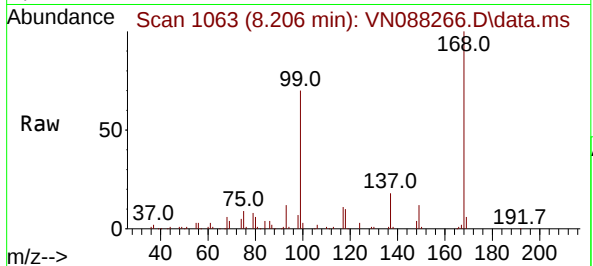




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

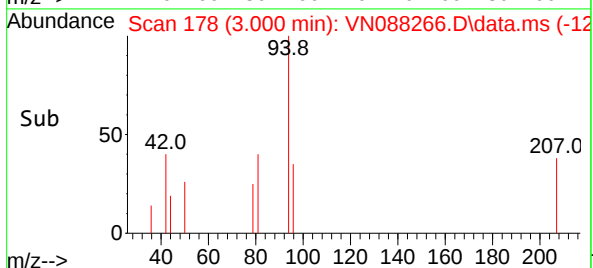
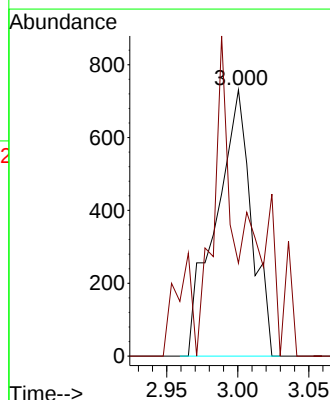
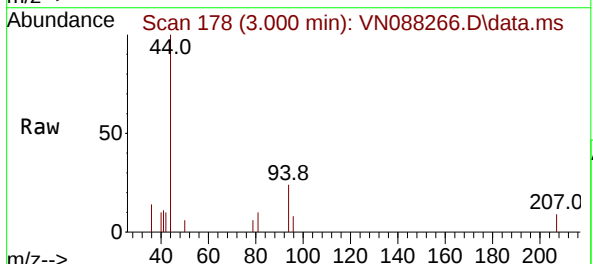
Instrument :
MSVOA_N
ClientSampleId :
VN1112MBL01

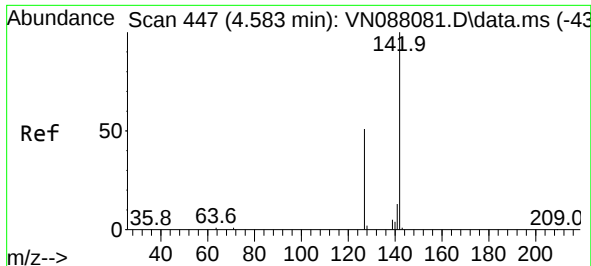
Tgt Ion:168 Resp: 195618
Ion Ratio Lower Upper
168 100
99 70.2 57.2 85.8



#5
Bromomethane
Concen: 0.754 ug/l
RT: 3.000 min Scan# 178
Delta R.T. 0.029 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

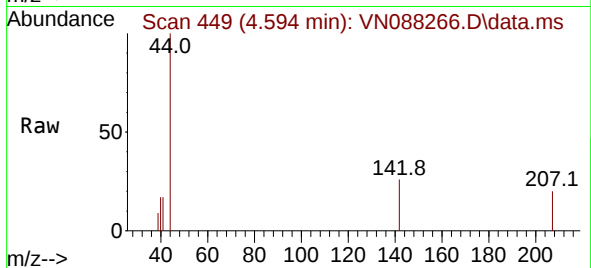
Tgt Ion: 94 Resp: 1275
Ion Ratio Lower Upper
94 100
96 34.9 75.4 113.2#



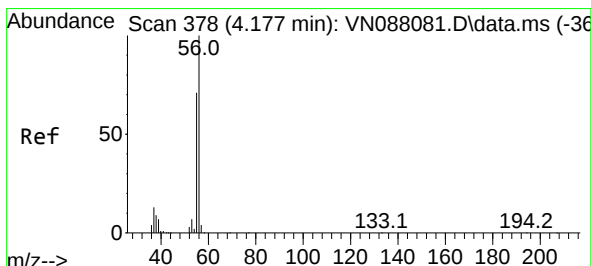
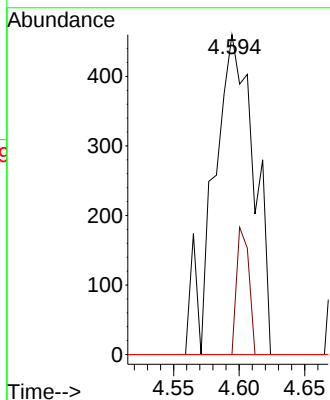
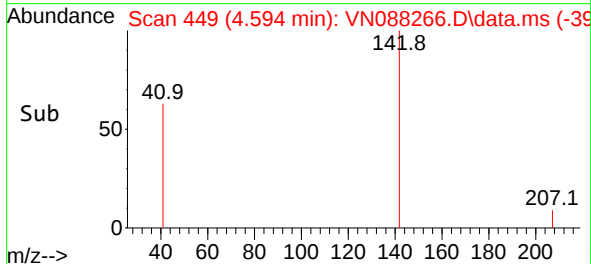


#10
Methyl Iodide
Concen: 0.463 ug/l
RT: 4.594 min Scan# 447
Delta R.T. 0.017 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

Instrument :
MSVOA_N
ClientSampleId :
VN1112MBL01

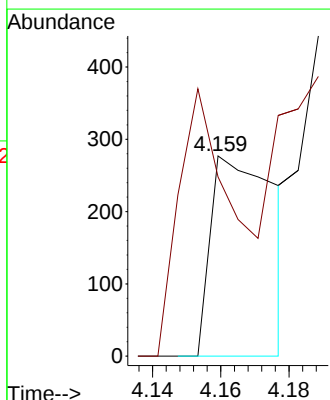
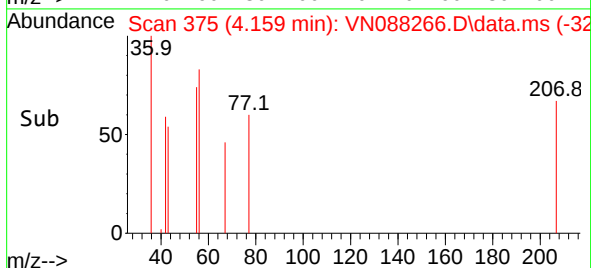
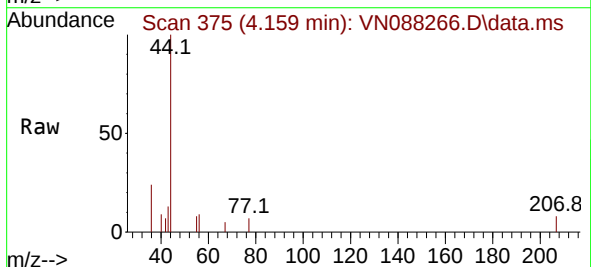


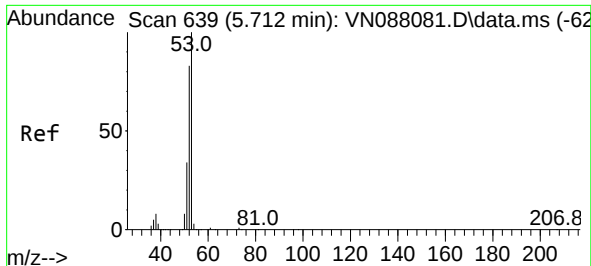
Tgt Ion:142 Resp: 985
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#13
Acrolein
Concen: 0.548 ug/l
RT: 4.159 min Scan# 375
Delta R.T. -0.012 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

Tgt Ion: 56 Resp: 359
Ion Ratio Lower Upper
56 100
55 117.3 57.3 85.9#

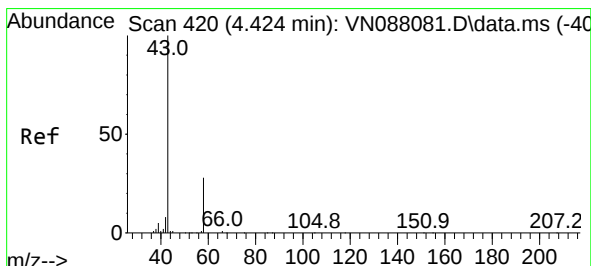
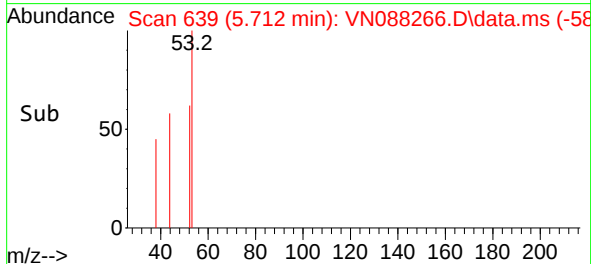
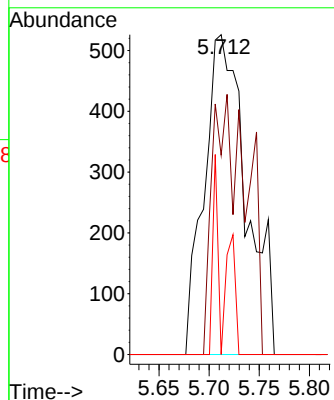
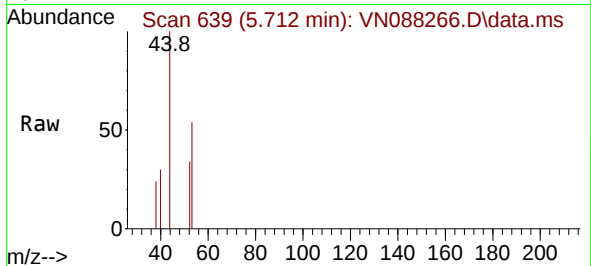




#15
Acrylonitrile
Concen: 0.970 ug/l
RT: 5.712 min Scan# 611
Delta R.T. 0.006 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

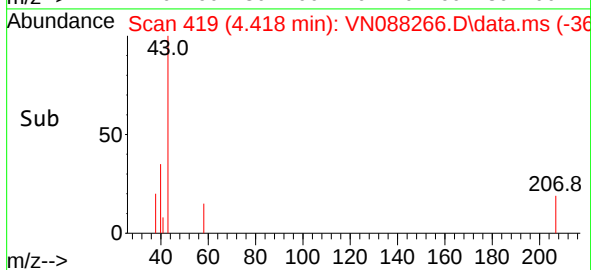
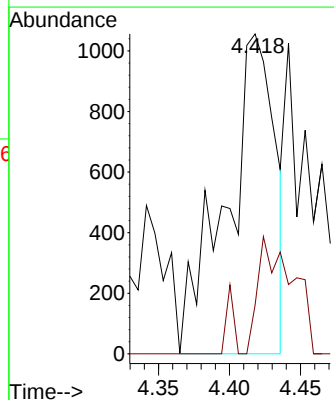
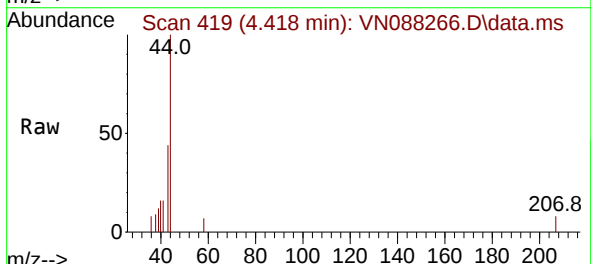
Instrument :
MSVOA_N
ClientSampleId :
VN1112MBL01

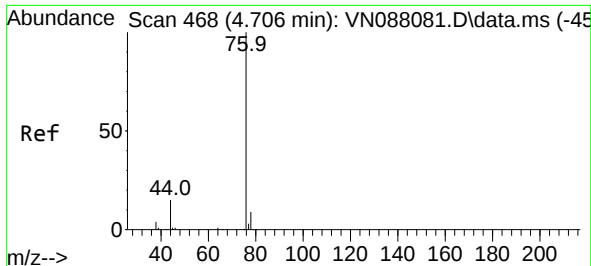
Tgt Ion: 53 Resp: 1540
Ion Ratio Lower Upper
53 100
52 66.4 67.6 101.4#
51 15.8 30.1 45.1#



#16
Acetone
Concen: 1.482 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

Tgt Ion: 43 Resp: 2519
Ion Ratio Lower Upper
43 100
58 15.2 22.6 33.8#

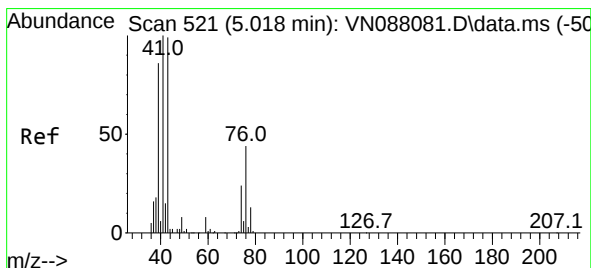
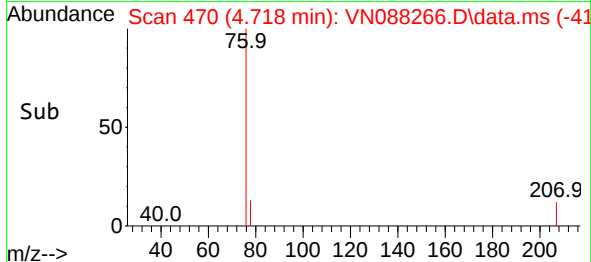
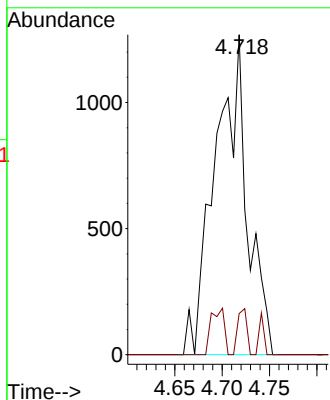
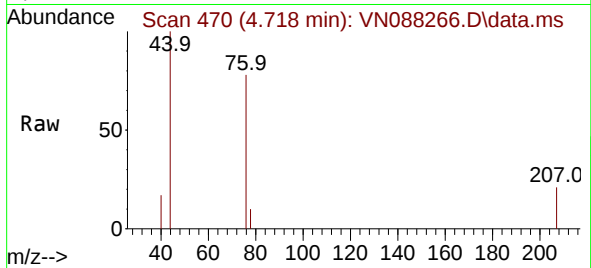




#17
Carbon Disulfide
Concen: 0.399 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.017 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

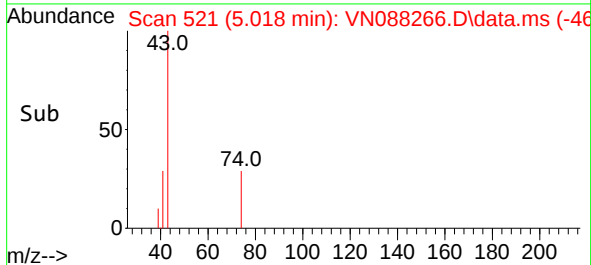
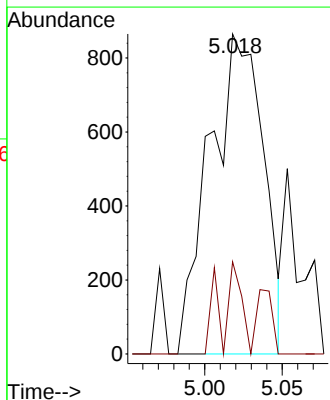
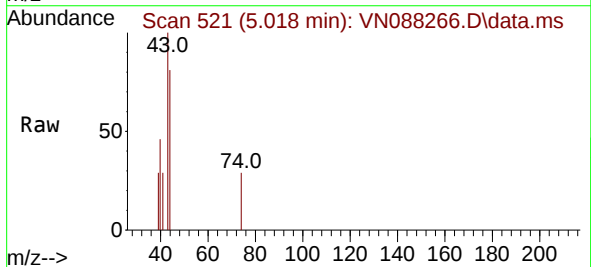
Instrument :
MSVOA_N
ClientSampleId :
VN1112MBL01

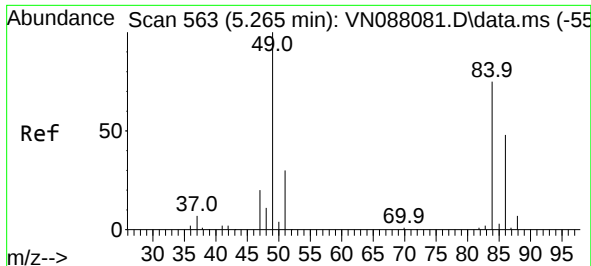
Tgt Ion: 76 Resp: 2980
Ion Ratio Lower Upper
76 100
78 12.8 7.6 11.4#



#18
Methyl Acetate
Concen: 0.600 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

Tgt Ion: 43 Resp: 2087
Ion Ratio Lower Upper
43 100
74 6.9 17.6 26.4#

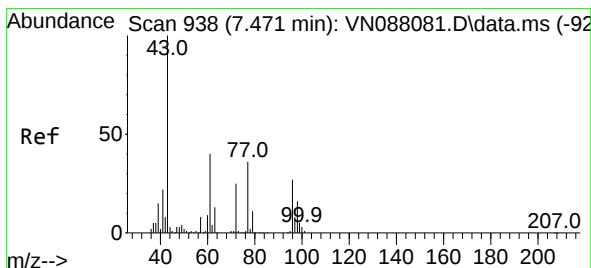
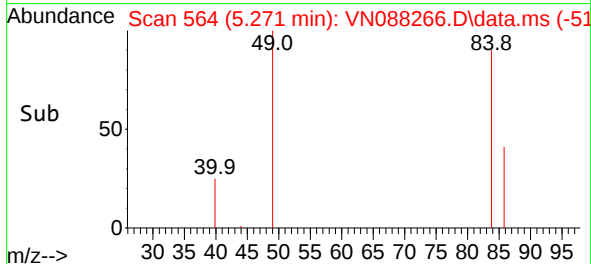
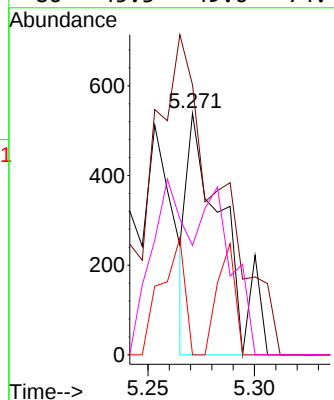
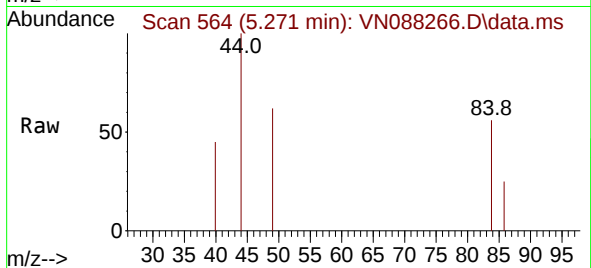




#20
Methylene Chloride
Concen: 0.217 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

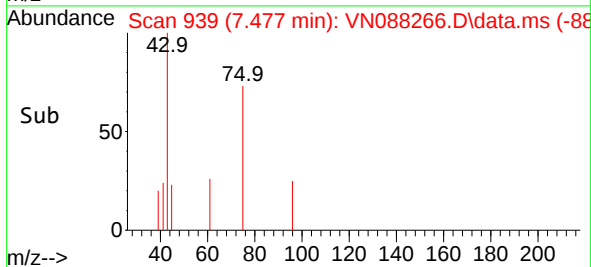
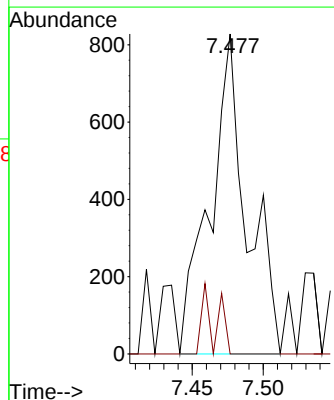
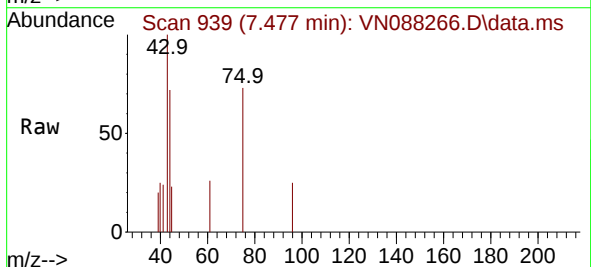
Instrument :
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ClientSampleId :
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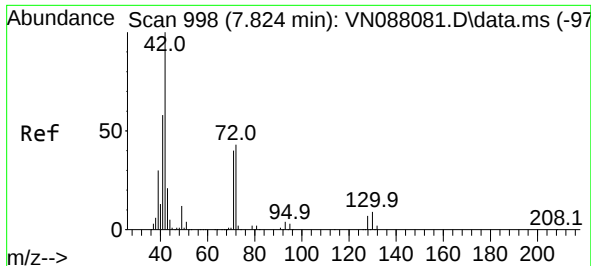
Tgt Ion: 84 Resp: 620
Ion Ratio Lower Upper
84 100
49 111.7 103.4 155.2
51 0.0 33.8 50.8#
86 45.3 49.6 74.4#



#25
2-Butanone
Concen: 0.668 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

Tgt Ion: 43 Resp: 1496
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#





#29

Tetrahydrofuran

Concen: 0.249 ug/l

RT: 7.830 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN088266.D

Acq: 12 Nov 2025 10:41

Instrument :

MSVOA_N

ClientSampleId :

VN1112MBL01

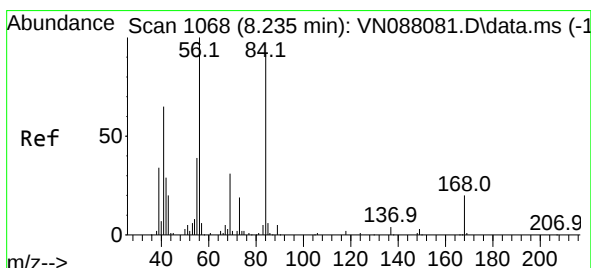
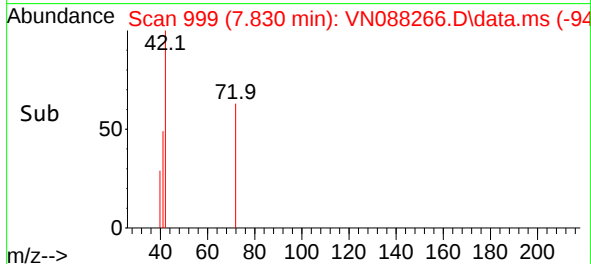
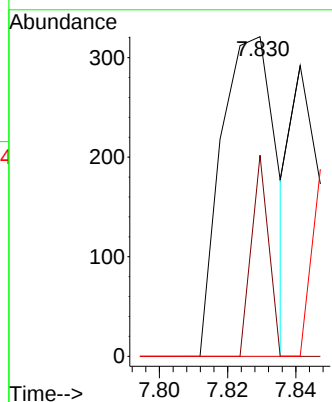
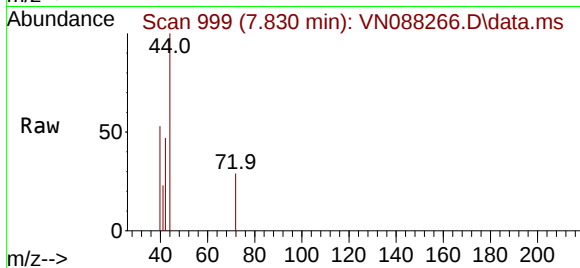
Tgt Ion: 42 Resp: 363

Ion Ratio Lower Upper

42 100

72 19.6 33.7 50.5#

71 18.2 31.9 47.9#



#31

Cyclohexane

Concen: 1.285 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.035 min

Lab File: VN088266.D

Acq: 12 Nov 2025 10:41

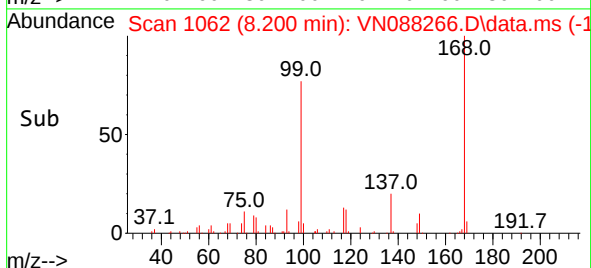
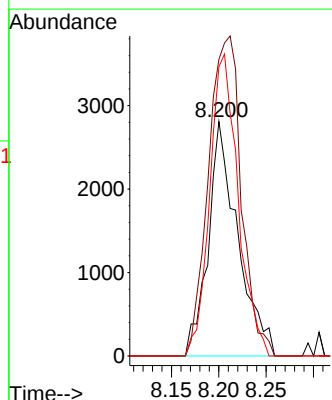
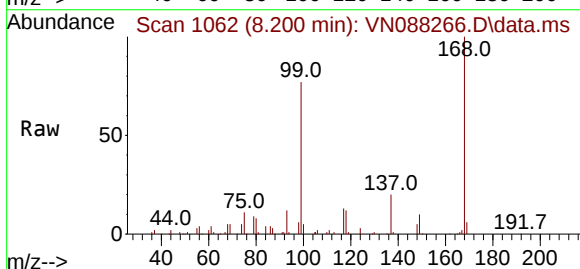
Tgt Ion: 56 Resp: 6085

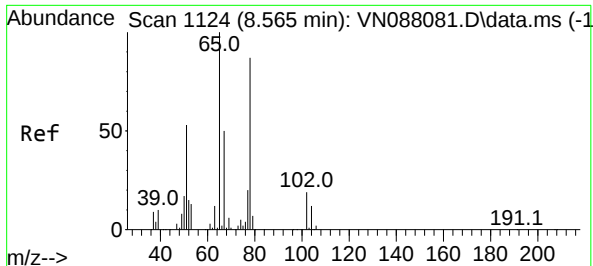
Ion Ratio Lower Upper

56 100

69 126.5 23.7 35.5#

84 123.3 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 57.239 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088266.D

Acq: 12 Nov 2025 10:41

Instrument :

MSVOA_N

ClientSampleId :

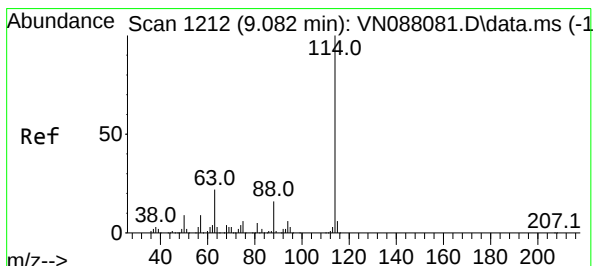
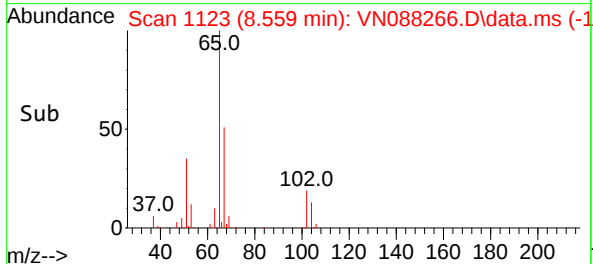
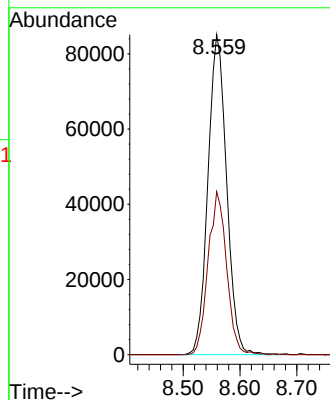
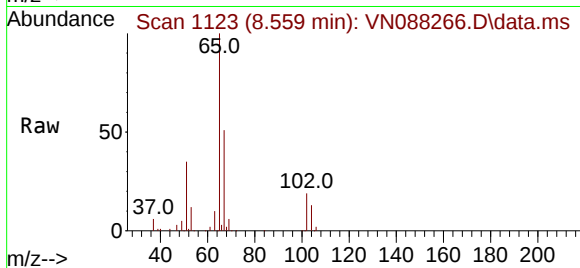
VN1112MBL01

Tgt Ion: 65 Resp: 193619

Ion Ratio Lower Upper

65 100

67 50.5 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088266.D

Acq: 12 Nov 2025 10:41

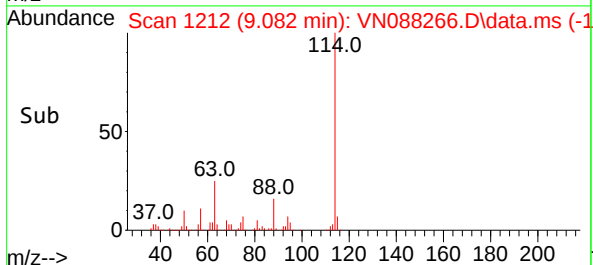
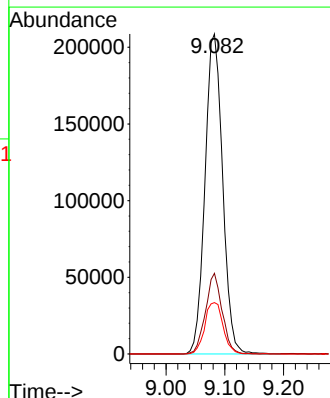
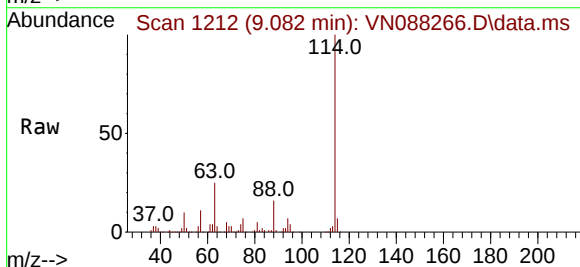
Tgt Ion: 114 Resp: 433845

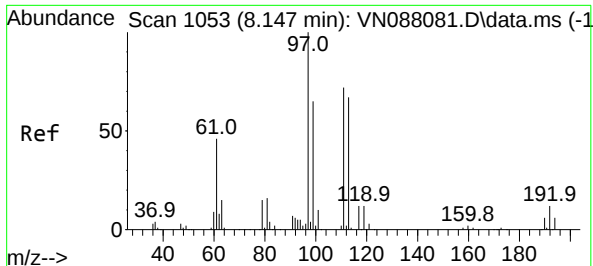
Ion Ratio Lower Upper

114 100

63 25.2 0.0 45.2

88 16.1 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.592 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088266.D

Acq: 12 Nov 2025 10:41

Instrument :

MSVOA_N

ClientSampleId :

VN1112MBL01

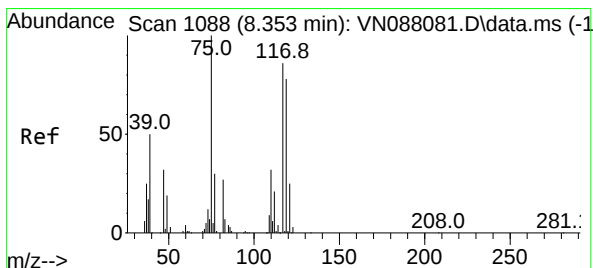
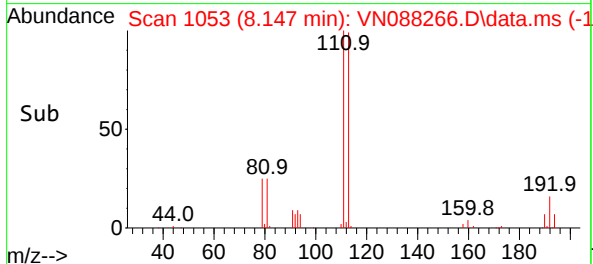
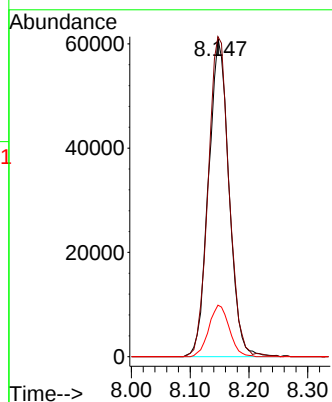
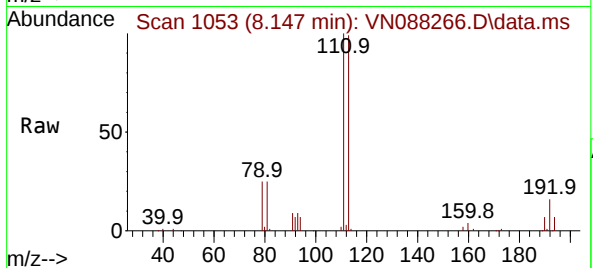
Tgt Ion:113 Resp: 147454

Ion Ratio Lower Upper

113 100

111 102.4 82.8 124.2

192 16.2 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.581 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088266.D

Acq: 12 Nov 2025 10:41

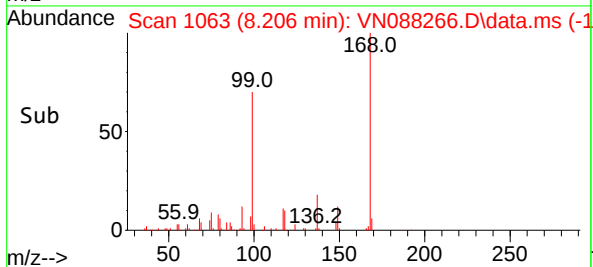
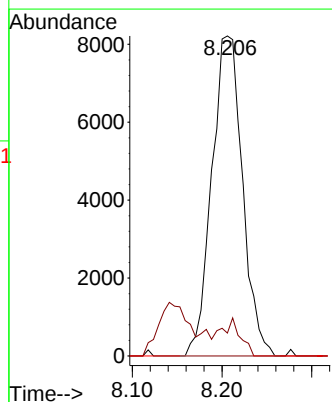
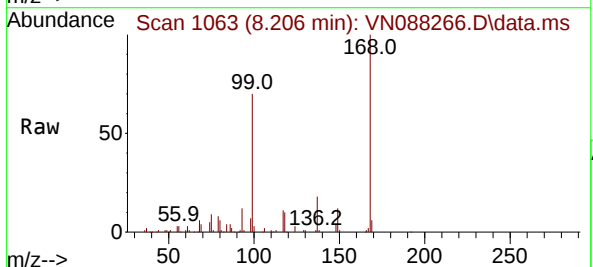
Tgt Ion: 75 Resp: 19495

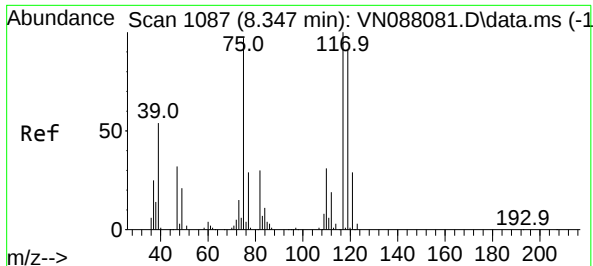
Ion Ratio Lower Upper

75 100

110 7.6 15.9 47.6#

77 0.0 24.4 36.6#

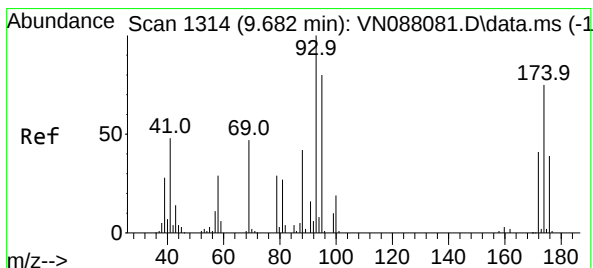
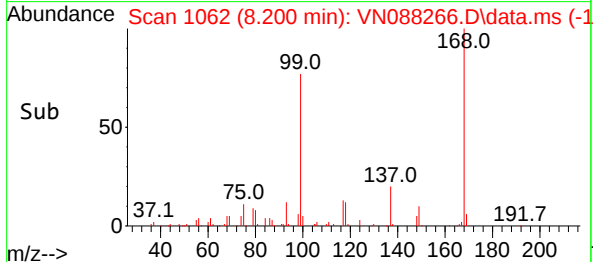
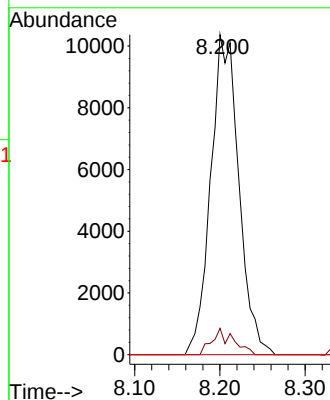
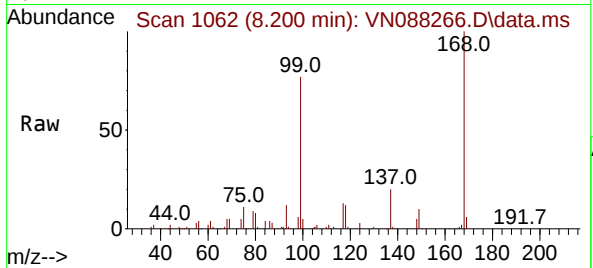




#38
Carbon Tetrachloride
Concen: 5.405 ug/l
RT: 8.200 min Scan# 117
Delta R.T. -0.141 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

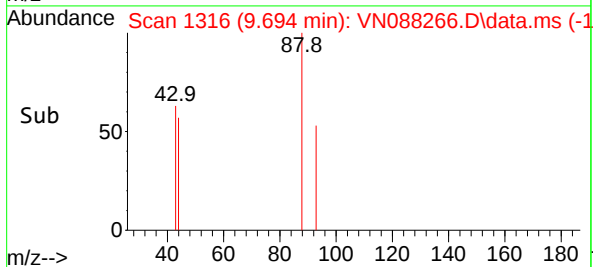
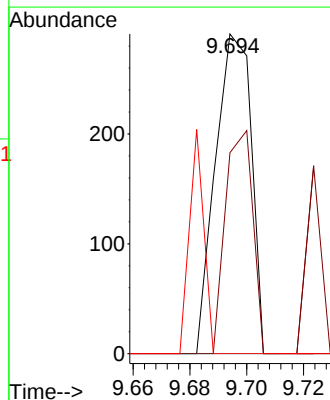
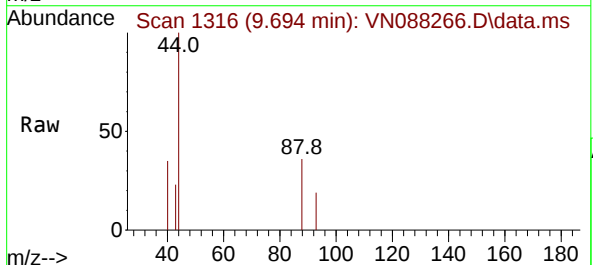
Instrument :
MSVOA_N
ClientSampleId :
VN1112MBL01

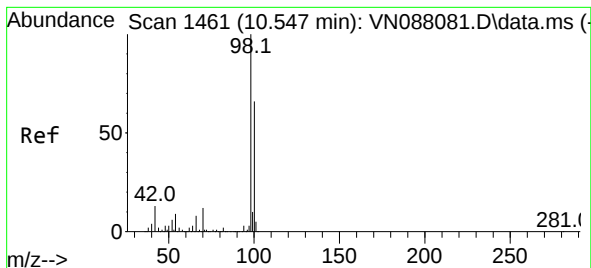
Tgt Ion:117 Resp: 23756
Ion Ratio Lower Upper
117 100
119 8.3 79.0 118.6#
121 0.0 25.0 37.6#



#49
1,4-Dioxane
Concen: 5.242 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.012 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

Tgt Ion: 88 Resp: 254
Ion Ratio Lower Upper
88 100
43 53.5 0.0 0.0#
58 28.3 57.9 86.9#

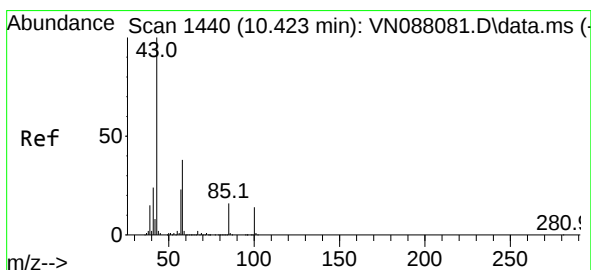
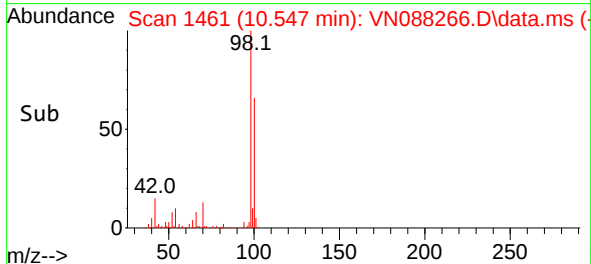
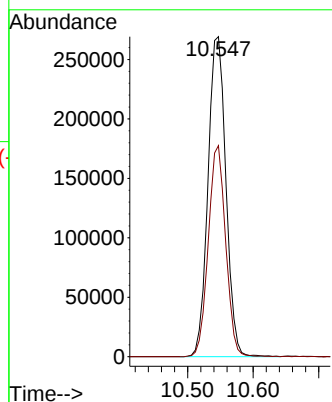
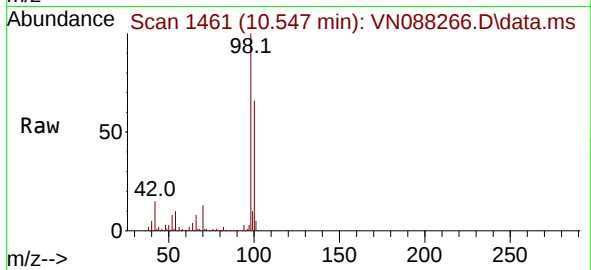




#50
Toluene-d8
Concen: 45.579 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

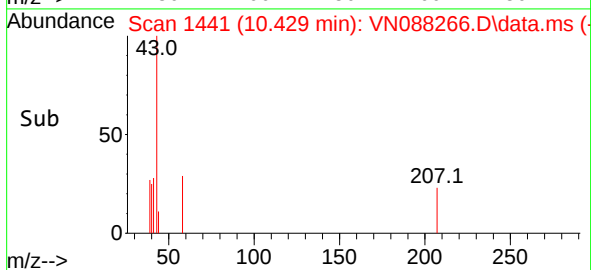
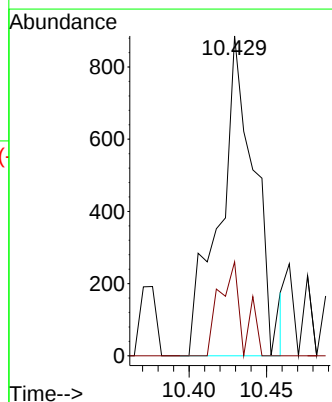
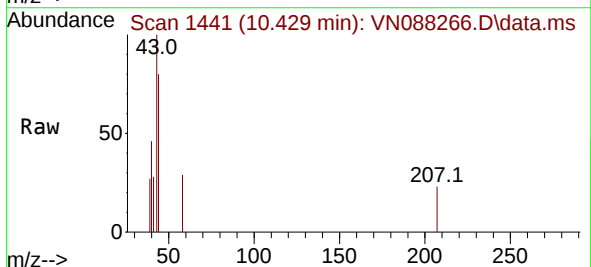
Instrument :
MSVOA_N
ClientSampleId :
VN1112MBL01

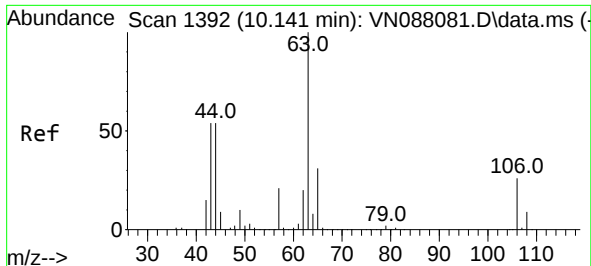
Tgt Ion: 98 Resp: 511876
Ion Ratio Lower Upper
98 100
100 64.0 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 0.280 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

Tgt Ion: 43 Resp: 1400
Ion Ratio Lower Upper
43 100
58 19.5 29.6 44.4#

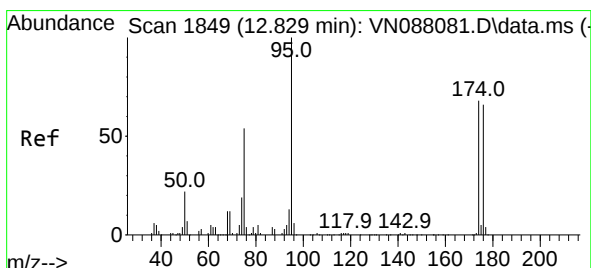
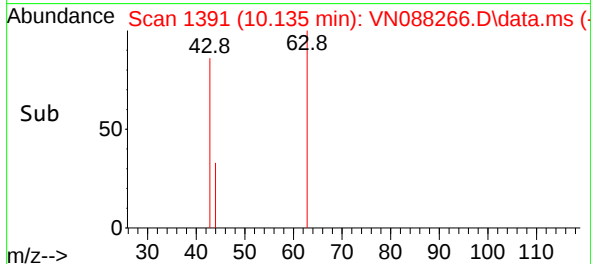
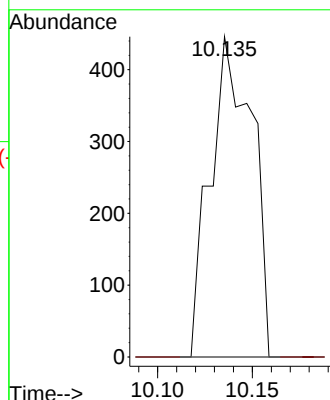
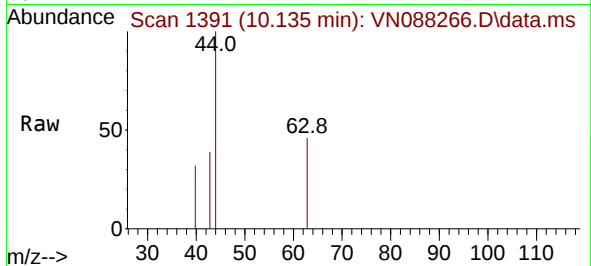




#58
2-Chloroethyl Vinyl ether
Concen: 0.275 ug/l
RT: 10.135 min Scan# 111
Delta R.T. -0.006 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

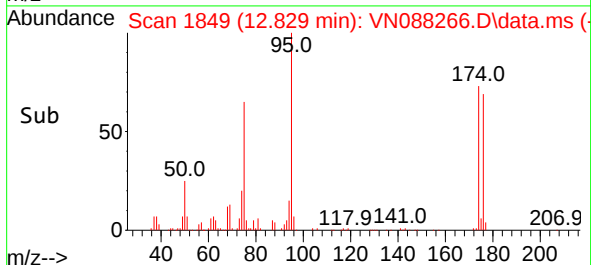
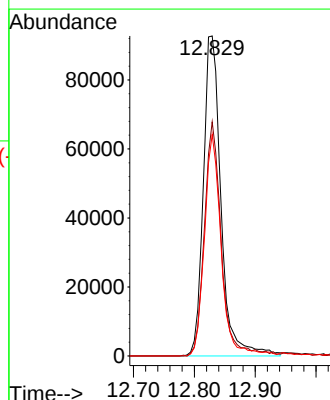
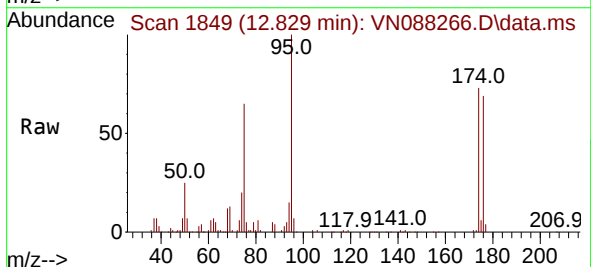
Instrument :
MSVOA_N
ClientSampleId :
VN1112MBL01

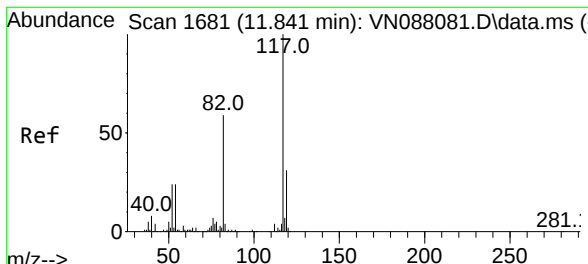
Tgt Ion: 63 Resp: 687
Ion Ratio Lower Upper
63 100
106 0.0 21.1 31.7#



#62
4-Bromofluorobenzene
Concen: 47.232 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

Tgt Ion: 95 Resp: 187331
Ion Ratio Lower Upper
95 100
174 70.3 0.0 138.4
176 65.7 0.0 132.6

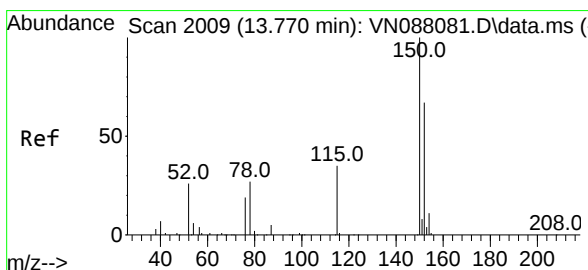
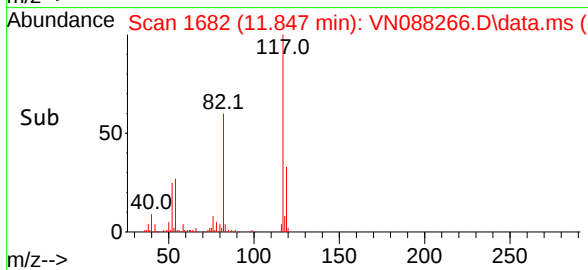
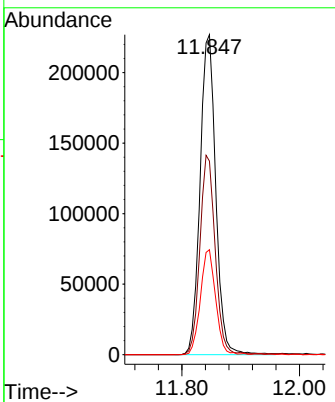
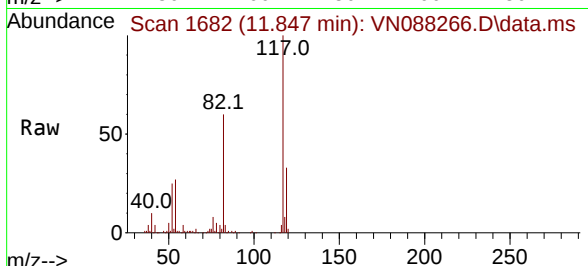




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.847 min Scan# 111
 Delta R.T. 0.006 min
 Lab File: VN088266.D
 Acq: 12 Nov 2025 10:41

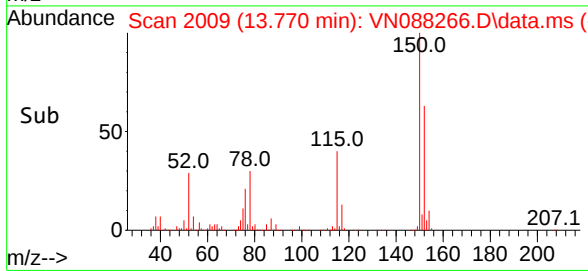
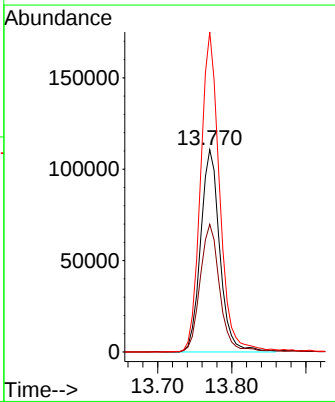
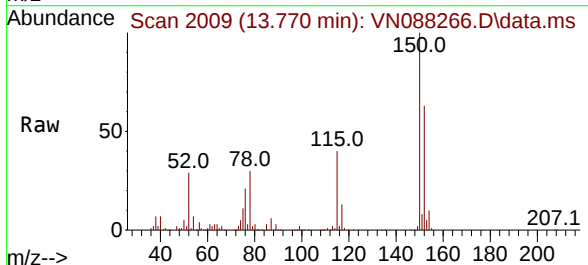
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1112MBL01

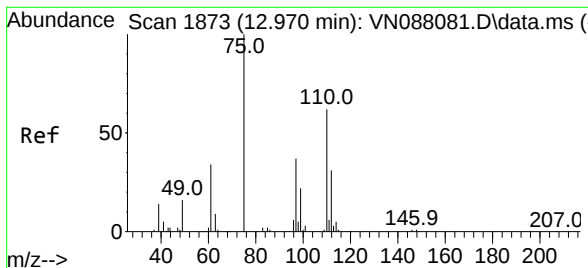
Tgt Ion:	117	Resp:	420389
Ion	Ratio	Lower	Upper
117	100		
82	60.5	47.4	71.2
119	32.8	24.3	36.5



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. 0.006 min
 Lab File: VN088266.D
 Acq: 12 Nov 2025 10:41

Tgt Ion:	152	Resp:	198881
Ion	Ratio	Lower	Upper
152	100		
115	65.0	32.3	96.8
150	157.2	0.0	351.0





#76

1,2,3-Trichloropropane

Concen: 24.017 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN088266.D

Acq: 12 Nov 2025 10:41

Instrument :

MSVOA_N

ClientSampleId :

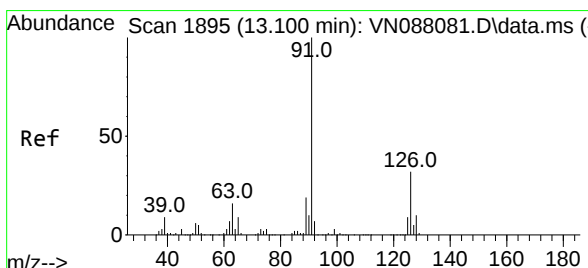
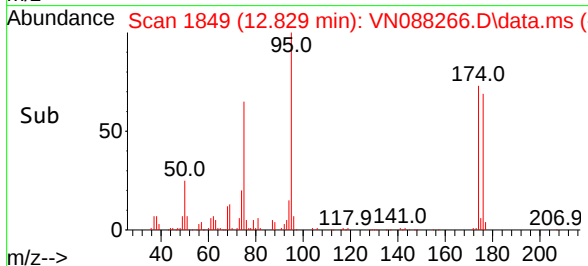
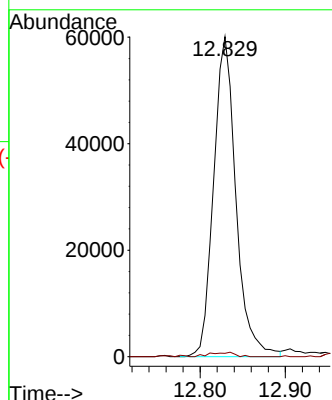
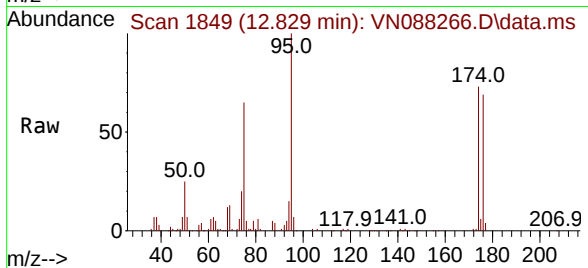
VN1112MBL01

Tgt Ion: 75 Resp: 109204

Ion Ratio Lower Upper

75 100

77 1.5 89.1 267.4#



#79

2-Chlorotoluene

Concen: 0.203 ug/l

RT: 13.112 min Scan# 1897

Delta R.T. 0.012 min

Lab File: VN088266.D

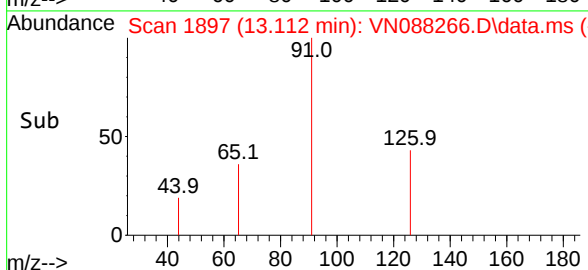
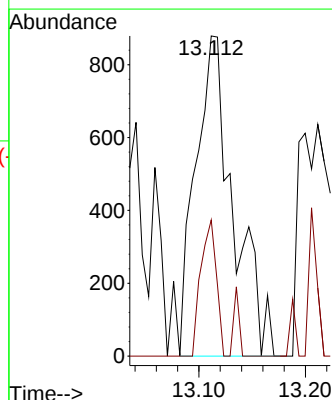
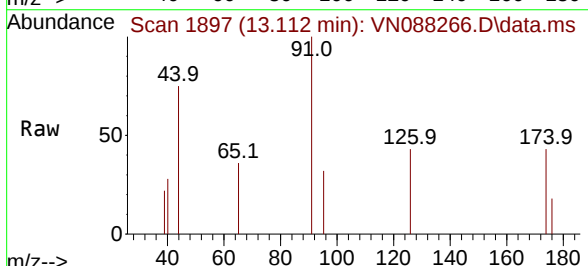
Acq: 12 Nov 2025 10:41

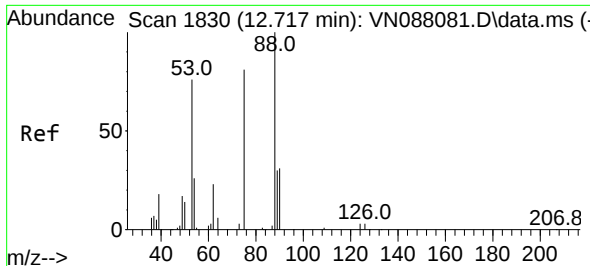
Tgt Ion: 91 Resp: 2172

Ion Ratio Lower Upper

91 100

126 17.6 16.1 48.3

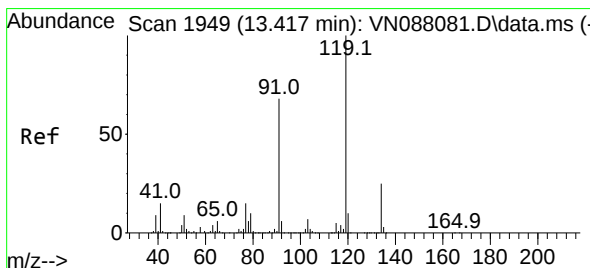
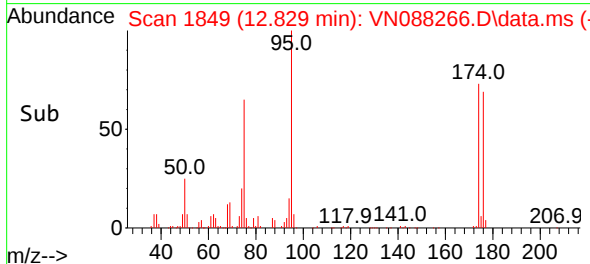
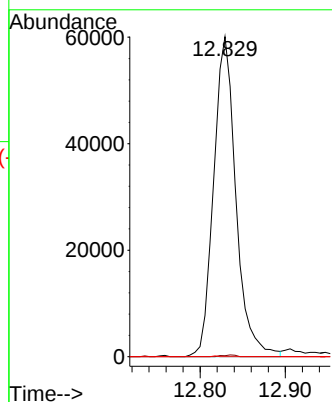
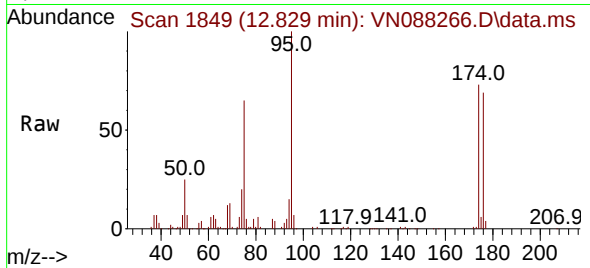




#81
trans-1,4-Dichloro-2-butene
Concen: 66.995 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

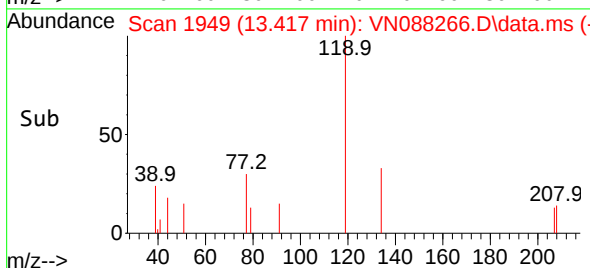
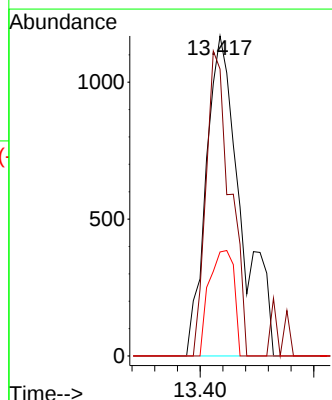
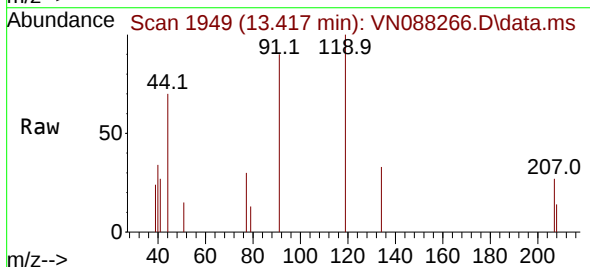
Instrument :
MSVOA_N
ClientSampleId :
VN1112MBL01

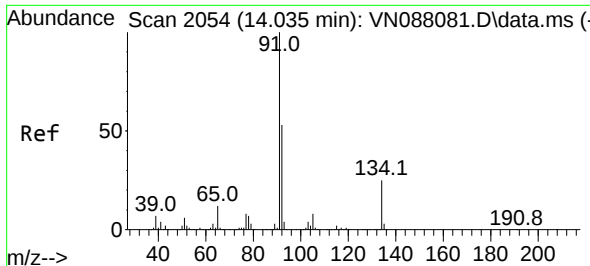
Tgt Ion: 75 Resp: 109204
Ion Ratio Lower Upper
75 100
53 0.3 101.8 152.6#
89 0.1 35.6 53.4#



#83
tert-Butylbenzene
Concen: 0.217 ug/l
RT: 13.417 min Scan# 1949
Delta R.T. -0.000 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

Tgt Ion: 119 Resp: 2473
Ion Ratio Lower Upper
119 100
91 66.5 35.0 105.0
134 23.7 12.6 37.8

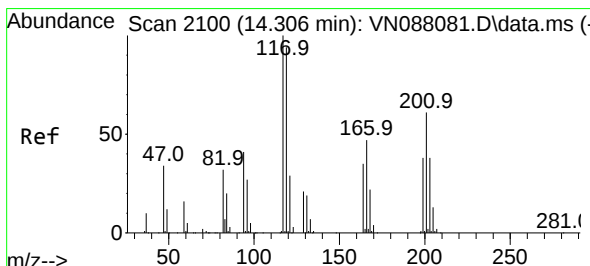
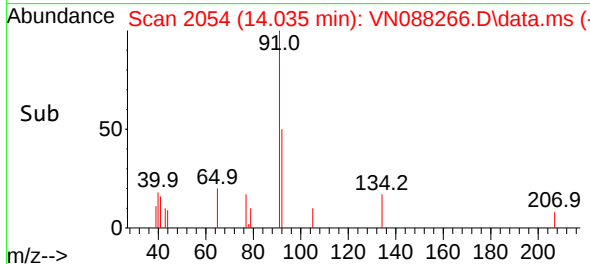
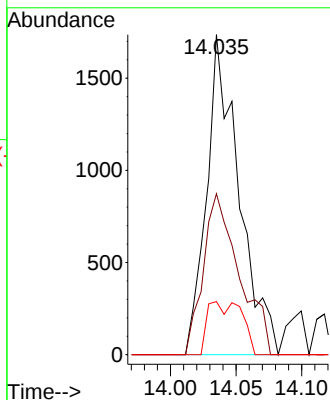
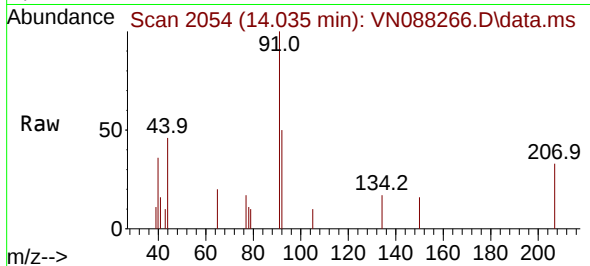




#89
n-Butylbenzene
Concen: 0.223 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.006 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

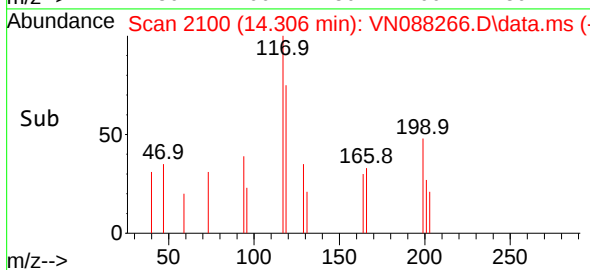
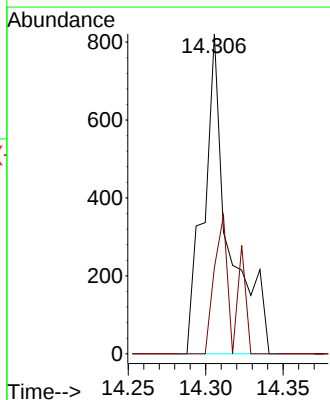
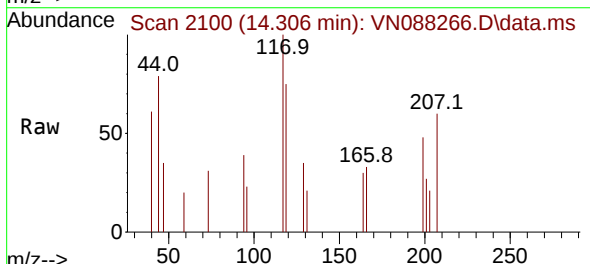
Instrument :
MSVOA_N
ClientSampleId :
VN1112MBL01

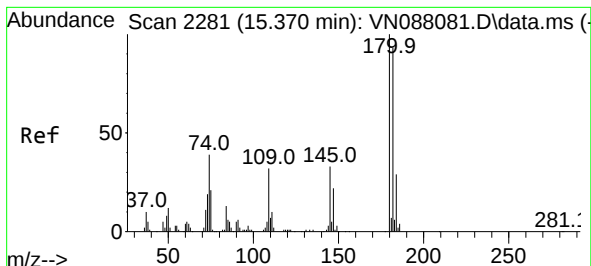
Tgt Ion:	91	Resp:	2967
Ion	Ratio	Lower	Upper
91	100		
92	56.2	25.9	77.8
134	17.7	11.7	35.0



#90
Hexachloroethane
Concen: 0.354 ug/l
RT: 14.306 min Scan# 2100
Delta R.T. -0.006 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

Tgt Ion:	117	Resp:	920
Ion	Ratio	Lower	Upper
117	100		
201	32.7	29.1	87.4





#93

1,2,4-Trichlorobenzene

Concen: 0.419 ug/l

RT: 15.370 min Scan# 2281

Delta R.T. 0.006 min

Lab File: VN088266.D

Acq: 12 Nov 2025 10:41

Instrument :

MSVOA_N

ClientSampleId :

VN1112MBL01

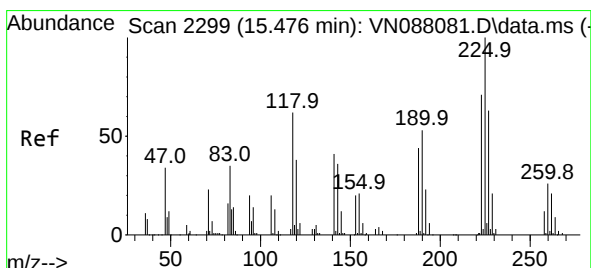
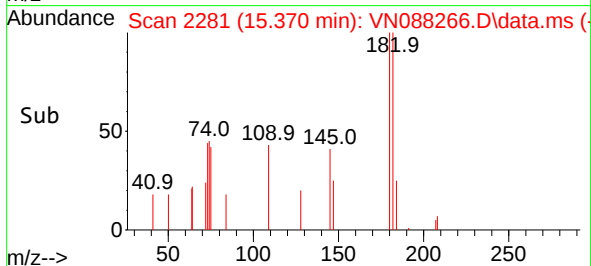
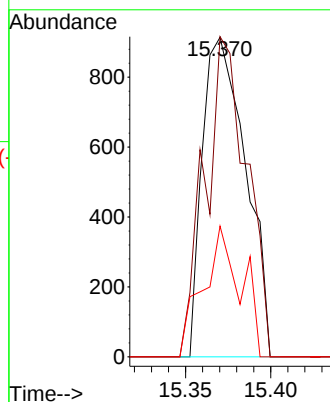
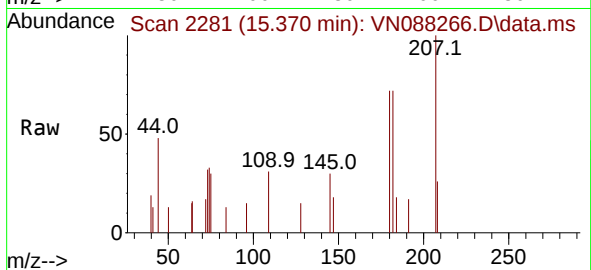
Tgt Ion:180 Resp: 1614

Ion Ratio Lower Upper

180 100

182 96.7 47.6 142.9

145 35.7 16.5 49.5



#94

Hexachlorobutadiene

Concen: 1.161 ug/l

RT: 15.476 min Scan# 2299

Delta R.T. -0.000 min

Lab File: VN088266.D

Acq: 12 Nov 2025 10:41

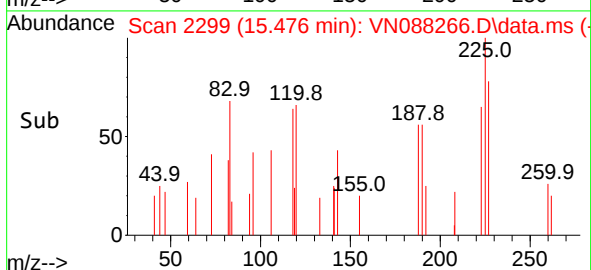
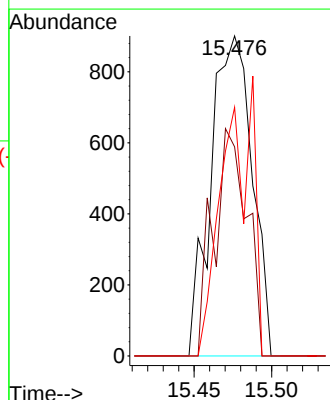
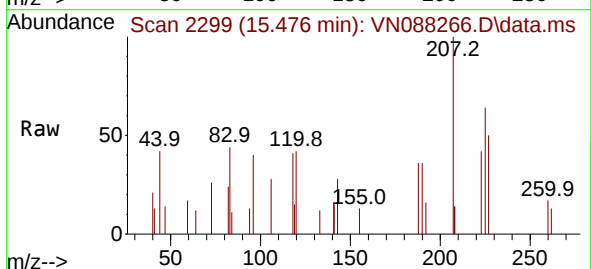
Tgt Ion:225 Resp: 1667

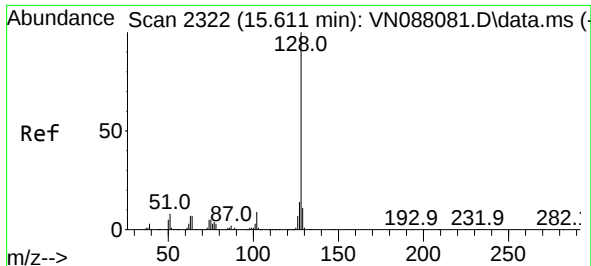
Ion Ratio Lower Upper

225 100

223 57.4 32.0 96.2

227 63.0 32.1 96.5

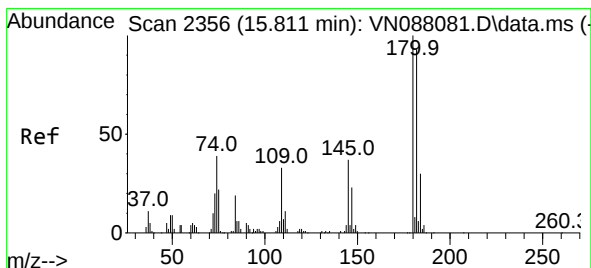
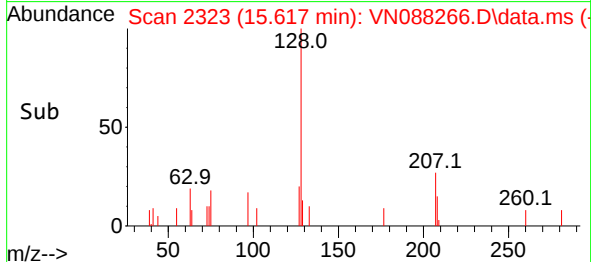
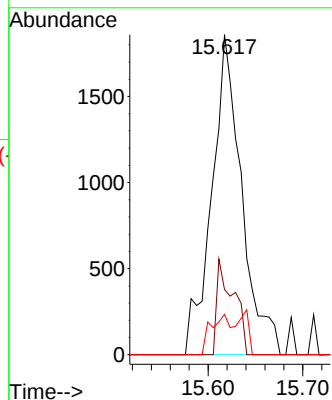
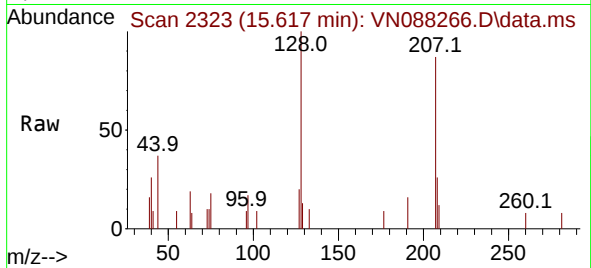




#95
Naphthalene
Concen: 0.308 ug/l
RT: 15.617 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

Instrument :
MSVOA_N
ClientSampleId :
VN1112MBL01

Tgt Ion:128 Resp: 4071
Ion Ratio Lower Upper
128 100
127 16.8 10.6 15.8#
129 8.0 8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: 0.498 ug/l
RT: 15.823 min Scan# 2358
Delta R.T. 0.012 min
Lab File: VN088266.D
Acq: 12 Nov 2025 10:41

Tgt Ion:180 Resp: 1842
Ion Ratio Lower Upper
180 100
182 101.5 46.8 140.3
145 32.7 17.3 52.0

