

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
 Data File : VN088401.D
 Acq On : 02 Dec 2025 11:54
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 03 01:26:37 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)

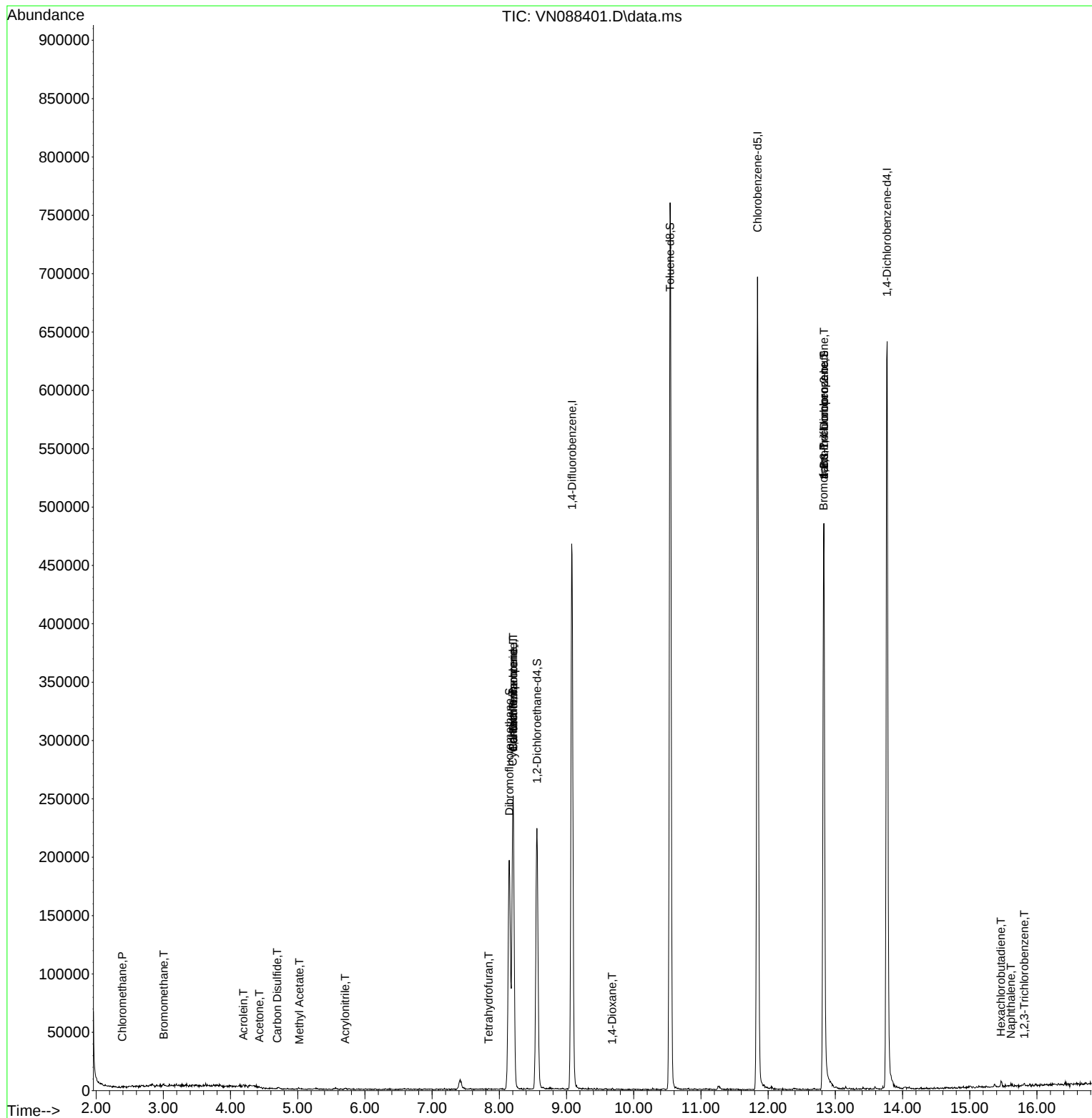
Internal Standards						
1) Pentafluorobenzene	8.206	168	166800	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	383778	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	368398	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	173011	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	190746	60.705	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 121.420%			
35) Dibromofluoromethane	8.147	113	140225	52.725	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.440%			
50) Toluene-d8	10.541	98	504101	50.942	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.880%			
62) 4-Bromofluorobenzene	12.829	95	180291	53.099	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.200%			
Target Compounds					Qvalue	
3) Chloromethane	2.389	50	648	0.241	ug/l	91
5) Bromomethane	3.007	94	339	0.257	ug/l #	31
13) Acrolein	4.189	56	418	0.870	ug/l #	40
15) Acrylonitrile	5.706	53	399	0.276	ug/l #	78
16) Acetone	4.430	43	903	0.795	ug/l #	48
17) Carbon Disulfide	4.695	76	1400	0.211	ug/l #	76
18) Methyl Acetate	5.024	43	950	0.281	ug/l #	53
29) Tetrahydrofuran	7.841	42	273	0.208	ug/l #	36
31) Cyclohexane	8.200	56	5499	1.331	ug/l #	21
36) 1,1-Dichloropropene	8.206	75	17475	4.257	ug/l #	47
38) Carbon Tetrachloride	8.206	117	20917	5.119	ug/l #	17
49) 1,4-Dioxane	9.677	88	279	5.831	ug/l #	78
71) Bromoform	12.824	173	538	0.263	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	101044	24.935	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	101044	70.740	ug/l #	1
94) Hexachlorobutadiene	15.465	225	906	0.791	ug/l	85
95) Naphthalene	15.612	128	2214	0.201	ug/l #	72
96) 1,2,3-Trichlorobenzene	15.812	180	721	0.233	ug/l #	78

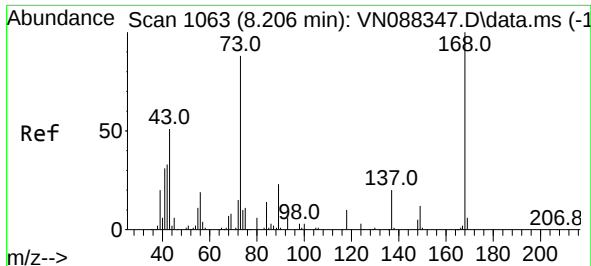
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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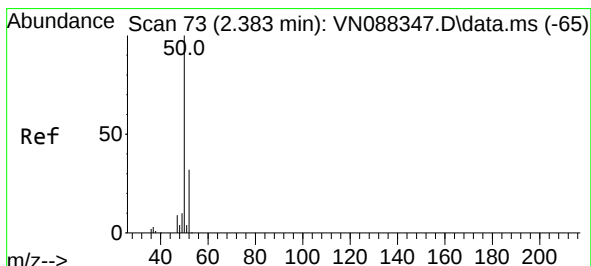
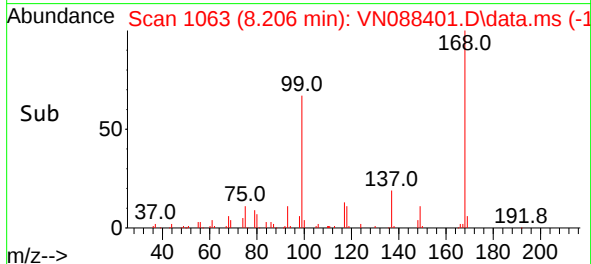
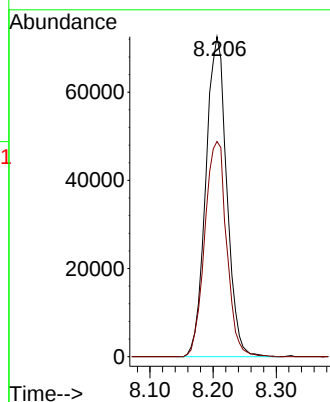
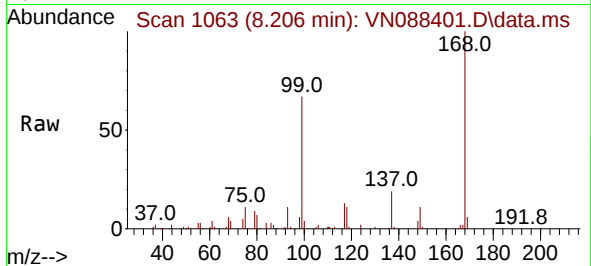




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088401.D
Acq: 02 Dec 2025 11:54

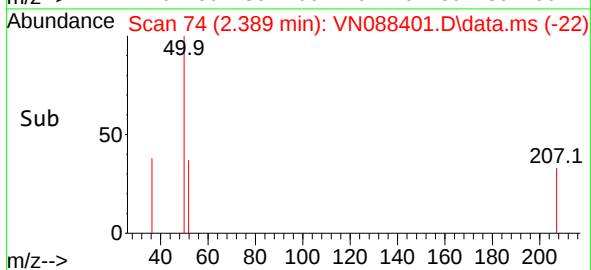
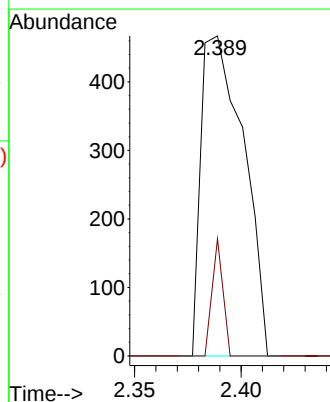
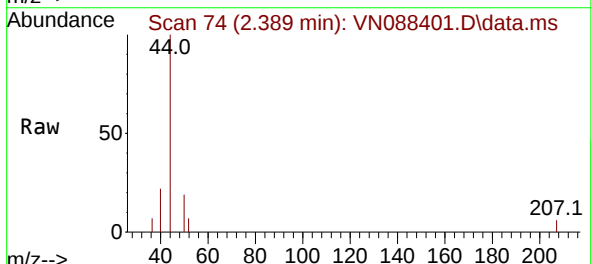
Instrument :
MSVOA_N
ClientSampleId :

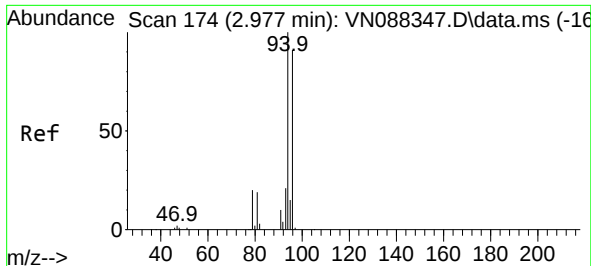
Tgt Ion:168 Resp: 166800
Ion Ratio Lower Upper
168 100
99 67.3 57.1 85.7



#3
Chloromethane
Concen: 0.241 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN088401.D
Acq: 02 Dec 2025 11:54

Tgt Ion: 50 Resp: 648
Ion Ratio Lower Upper
50 100
52 36.6 25.2 37.8

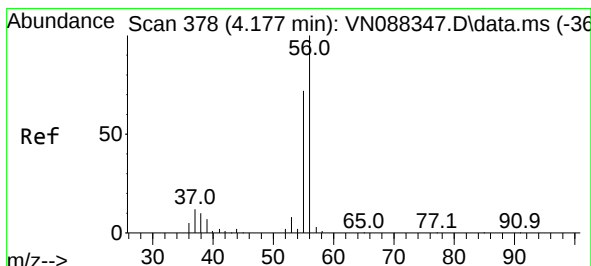
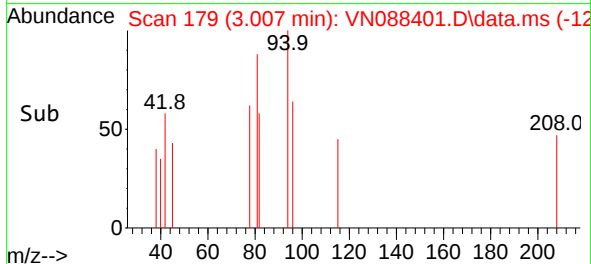
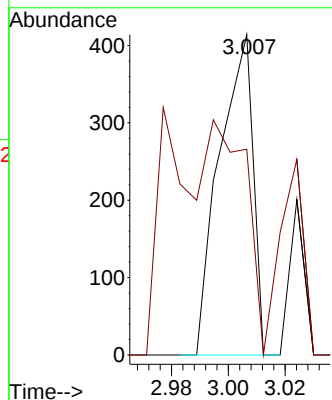
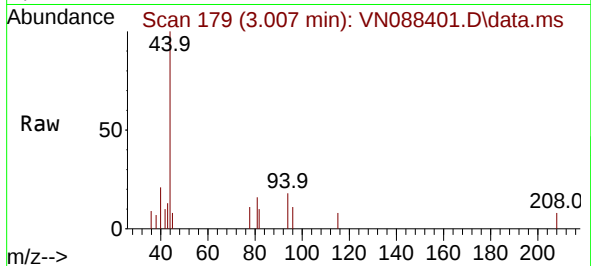




#5
Bromomethane
Concen: 0.257 ug/l
RT: 3.007 min Scan# 11
Delta R.T. 0.030 min
Lab File: VN088401.D
Acq: 02 Dec 2025 11:54

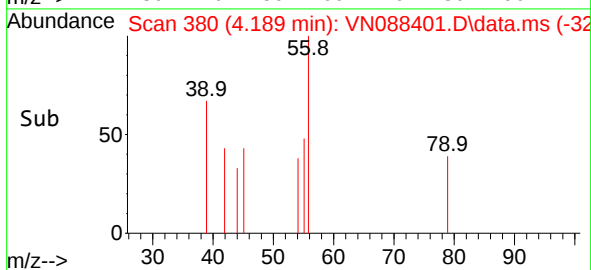
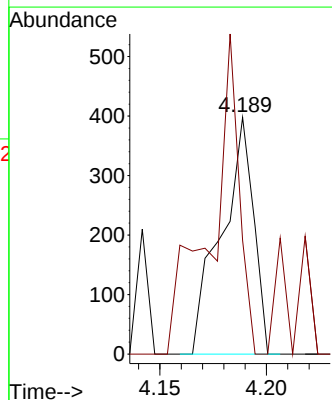
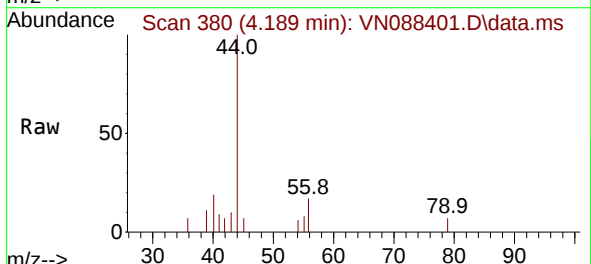
Instrument :
MSVOA_N
ClientSampleId :

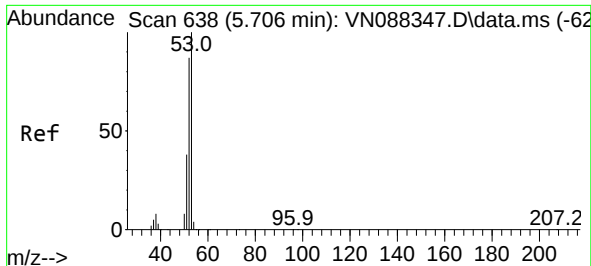
Tgt Ion: 94 Resp: 339
Ion Ratio Lower Upper
94 100
96 25.8 73.2 109.8#



#13
Acrolein
Concen: 0.870 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN088401.D
Acq: 02 Dec 2025 11:54

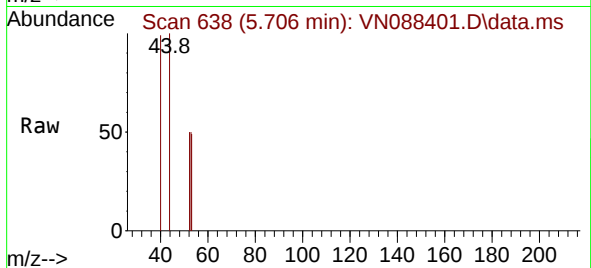
Tgt Ion: 56 Resp: 418
Ion Ratio Lower Upper
56 100
55 119.9 56.3 84.5#



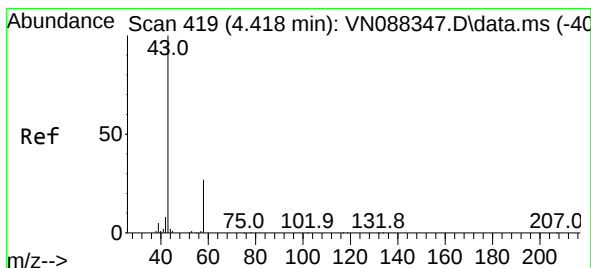
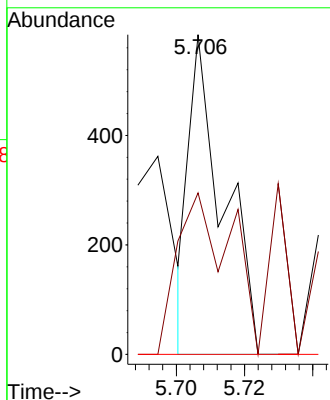
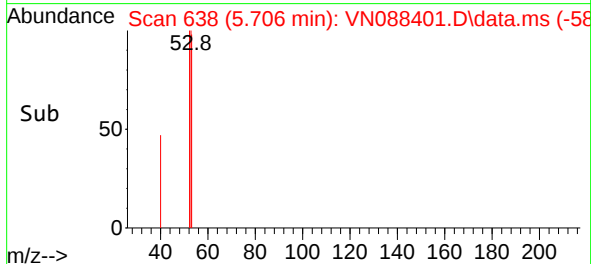


#15
Acrylonitrile
Concen: 0.276 ug/l
RT: 5.706 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN088401.D
Acq: 02 Dec 2025 11:54

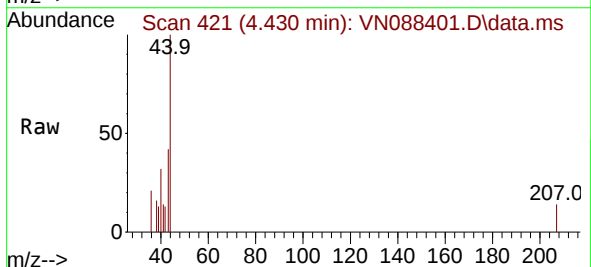
Instrument :
MSVOA_N
ClientSampleId :



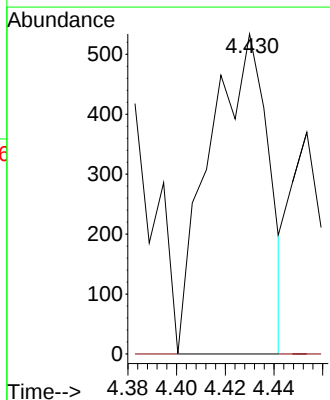
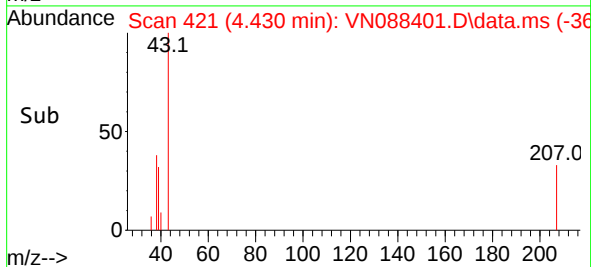
Tgt Ion: 53 Resp: 399
Ion Ratio Lower Upper
53 100
52 81.2 67.8 101.6
51 0.0 29.8 44.8#

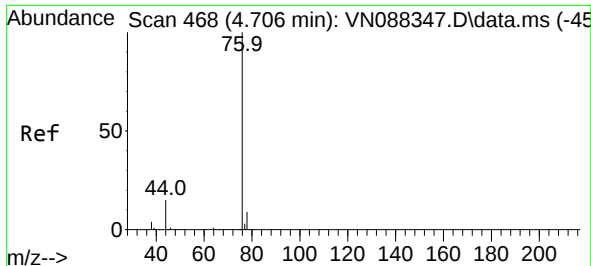


#16
Acetone
Concen: 0.795 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN088401.D
Acq: 02 Dec 2025 11:54



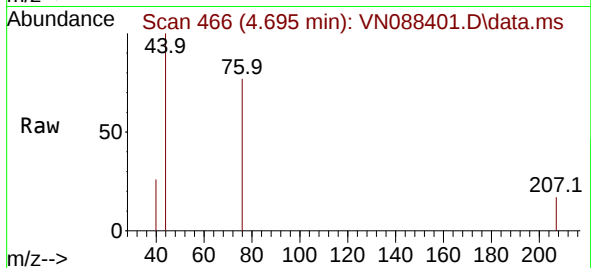
Tgt Ion: 43 Resp: 903
Ion Ratio Lower Upper
43 100
58 0.0 21.7 32.5#



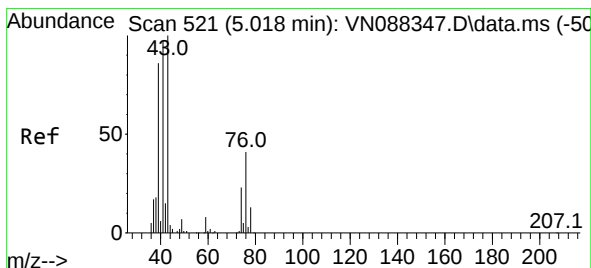
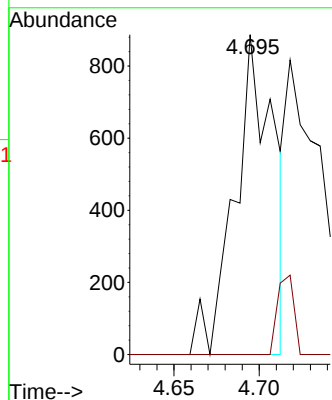
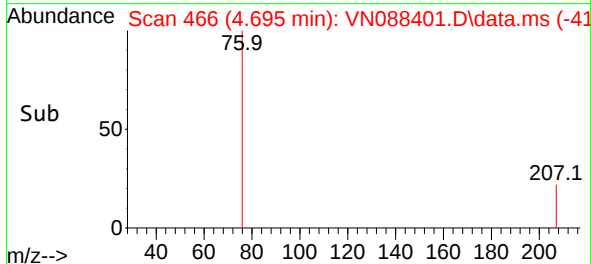


#17
Carbon Disulfide
Concen: 0.211 ug/l
RT: 4.695 min Scan# 41
Delta R.T. -0.012 min
Lab File: VN088401.D
Acq: 02 Dec 2025 11:54

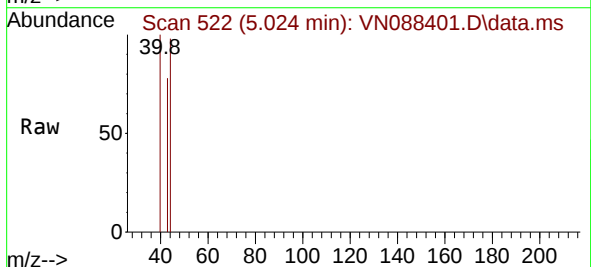
Instrument :
MSVOA_N
ClientSampleId :



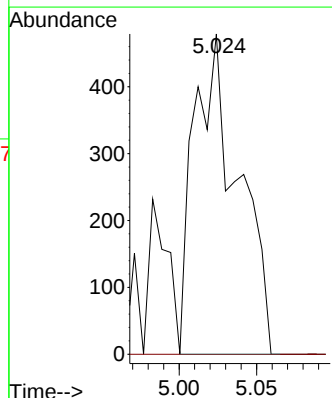
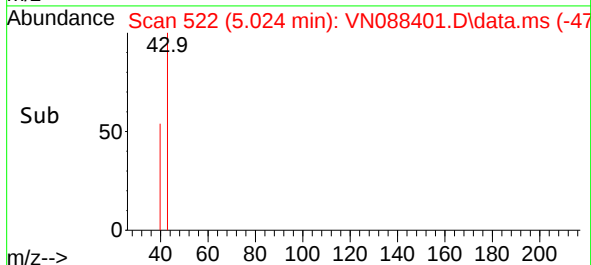
Tgt Ion: 76 Resp: 1400
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#

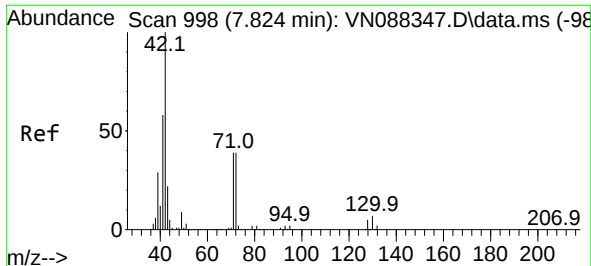


#18
Methyl Acetate
Concen: 0.281 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN088401.D
Acq: 02 Dec 2025 11:54



Tgt Ion: 43 Resp: 950
Ion Ratio Lower Upper
43 100
74 0.0 17.9 26.9#





#29

Tetrahydrofuran

Concen: 0.208 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.018 min

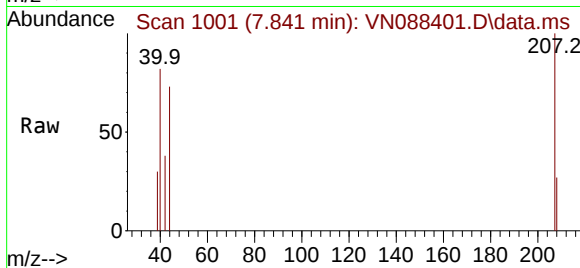
Lab File: VN088401.D

Acq: 02 Dec 2025 11:54

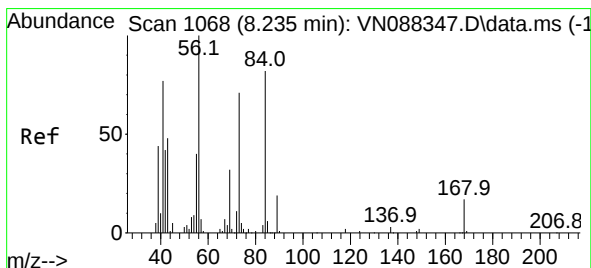
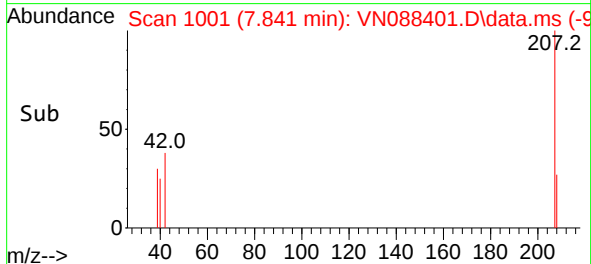
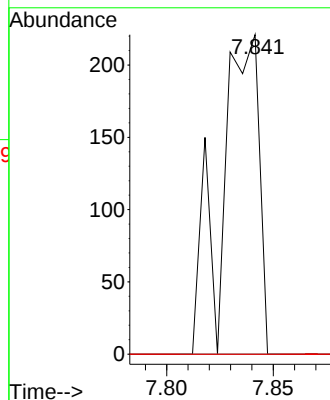
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	273
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.2	48.4#
71	0.0	31.1	46.7#



#31

Cyclohexane

Concen: 1.331 ug/l

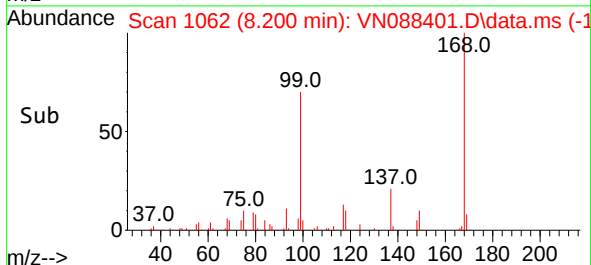
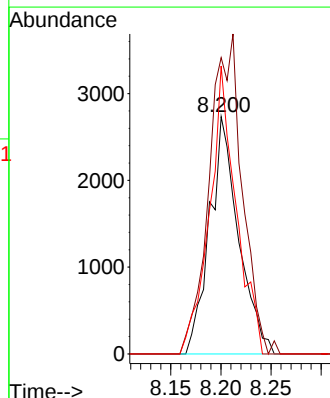
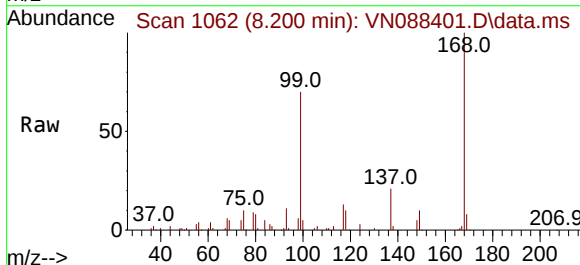
RT: 8.200 min Scan# 1062

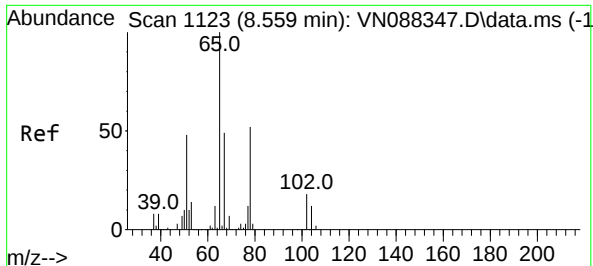
Delta R.T. -0.035 min

Lab File: VN088401.D

Acq: 02 Dec 2025 11:54

Tgt Ion:	56	Resp:	5499
Ion	Ratio	Lower	Upper
56	100		
69	124.9	25.3	37.9#
84	121.4	65.4	98.2#





#33

1,2-Dichloroethane-d4

Concen: 60.705 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088401.D

Acq: 02 Dec 2025 11:54

Instrument :

MSVOA_N

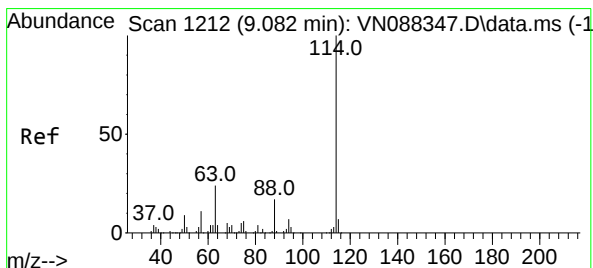
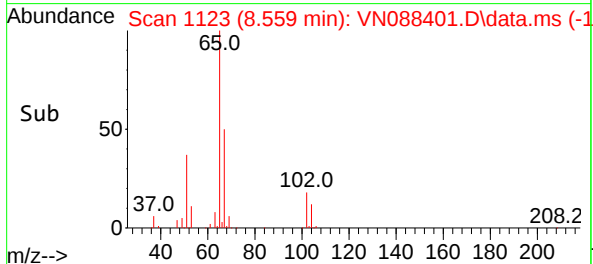
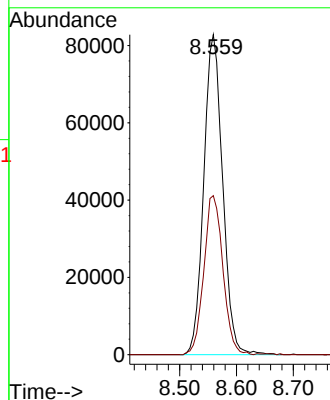
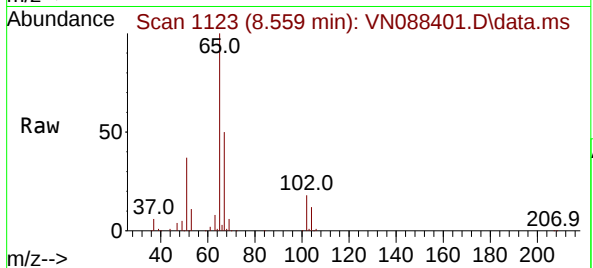
ClientSampleId :

Tgt Ion: 65 Resp: 190746

Ion Ratio Lower Upper

65 100

67 50.2 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: VN088401.D

Acq: 02 Dec 2025 11:54

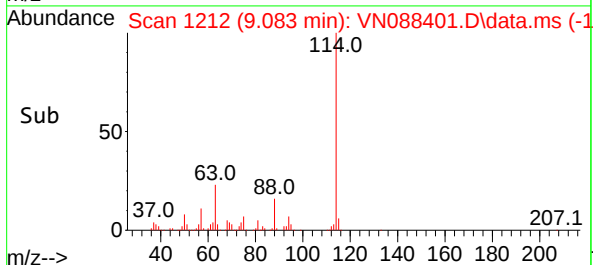
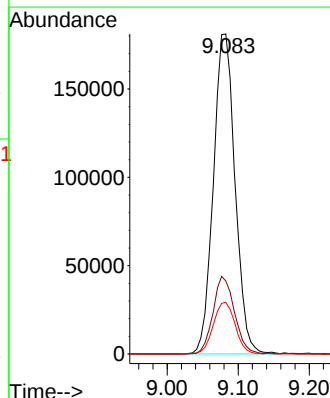
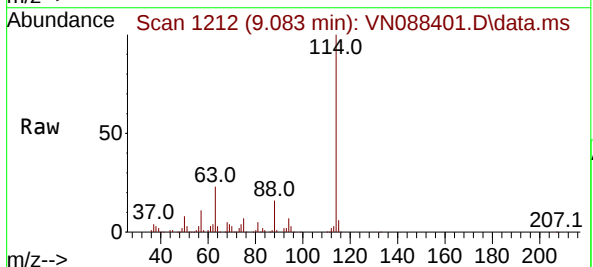
Tgt Ion: 114 Resp: 383778

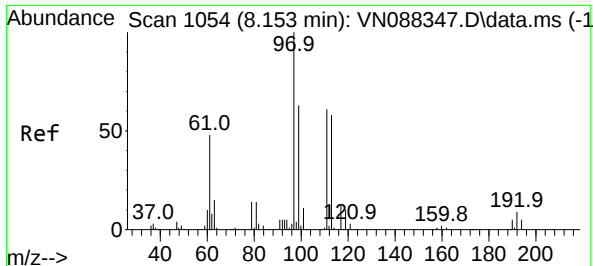
Ion Ratio Lower Upper

114 100

63 22.8 0.0 49.0

88 16.1 0.0 34.0





#35

Dibromofluoromethane

Concen: 52.725 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088401.D

Acq: 02 Dec 2025 11:54

Instrument :

MSVOA_N

ClientSampleId :

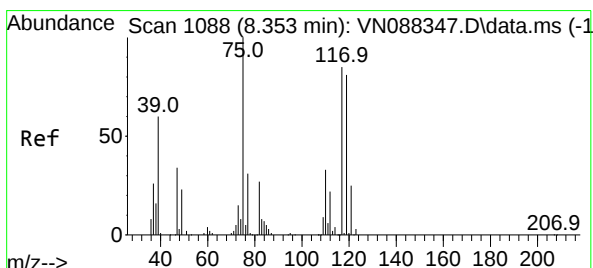
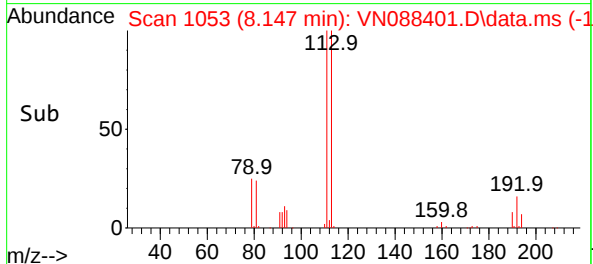
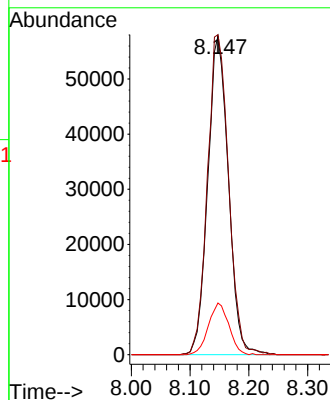
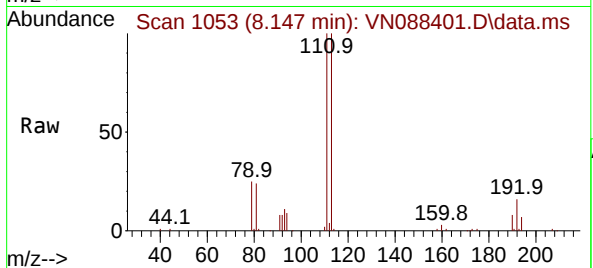
Tgt Ion:113 Resp: 140225

Ion Ratio Lower Upper

113 100

111 103.5 82.5 123.7

192 16.2 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.257 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088401.D

Acq: 02 Dec 2025 11:54

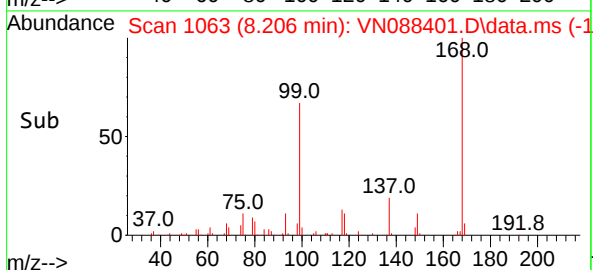
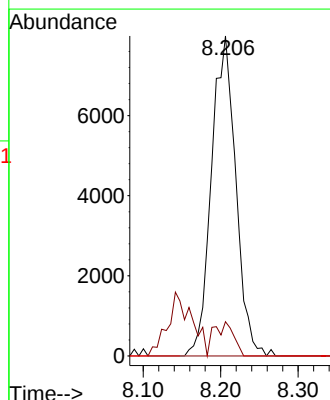
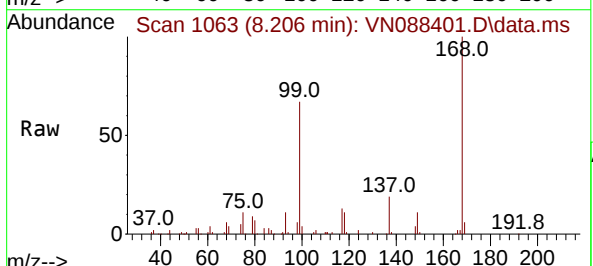
Tgt Ion: 75 Resp: 17475

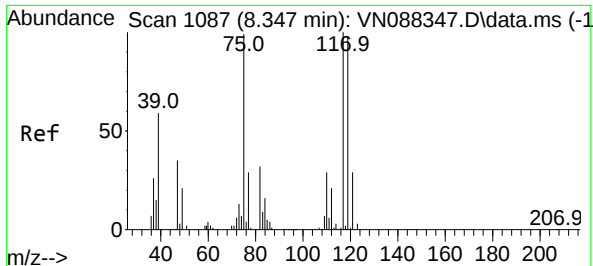
Ion Ratio Lower Upper

75 100

110 4.0 15.8 47.4#

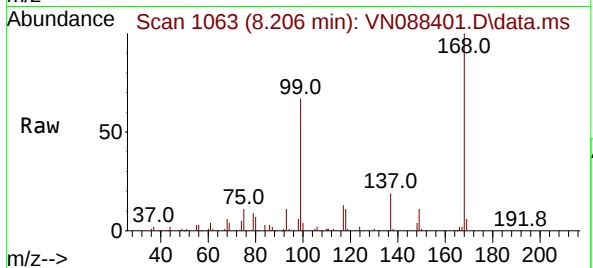
77 0.0 24.2 36.2#



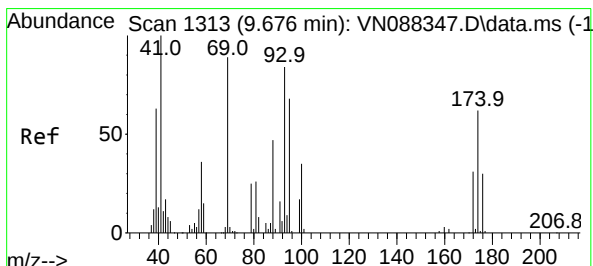
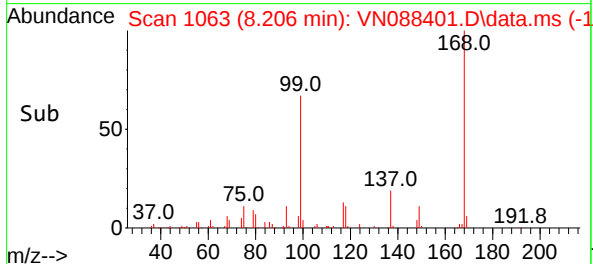
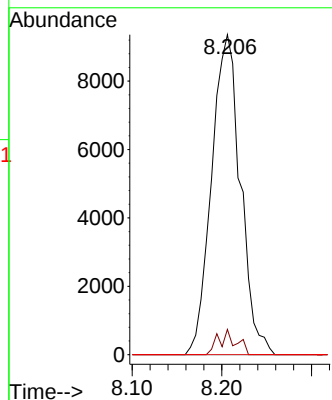


#38
Carbon Tetrachloride
Concen: 5.119 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.141 min
Lab File: VN088401.D
Acq: 02 Dec 2025 11:54

Instrument :
MSVOA_N
ClientSampleId :

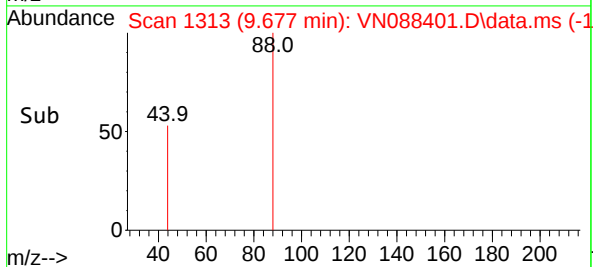
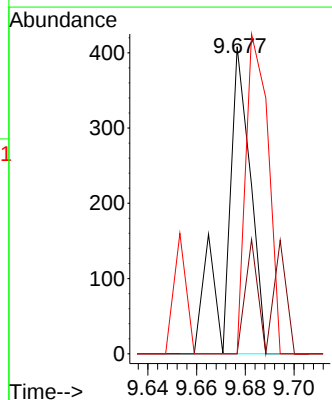
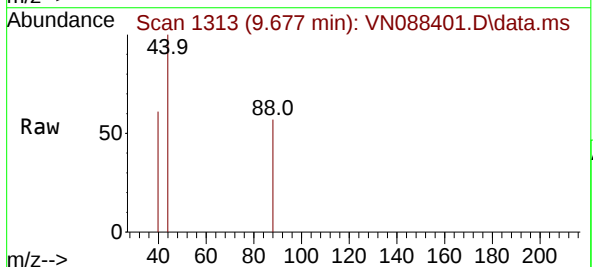


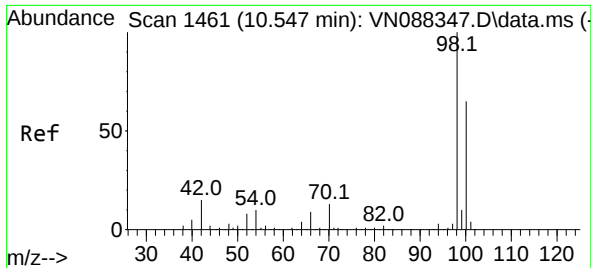
Tgt Ion:117 Resp: 20917
Ion Ratio Lower Upper
117 100
119 7.9 78.2 117.4#
121 0.0 23.4 35.2#



#49
1,4-Dioxane
Concen: 5.831 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. 0.000 min
Lab File: VN088401.D
Acq: 02 Dec 2025 11:54

Tgt Ion: 88 Resp: 279
Ion Ratio Lower Upper
88 100
43 38.4 0.0 0.0#
58 96.8 62.0 93.0#

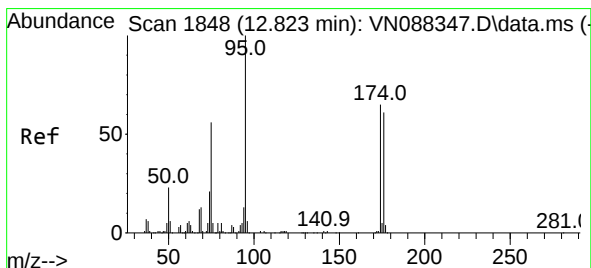
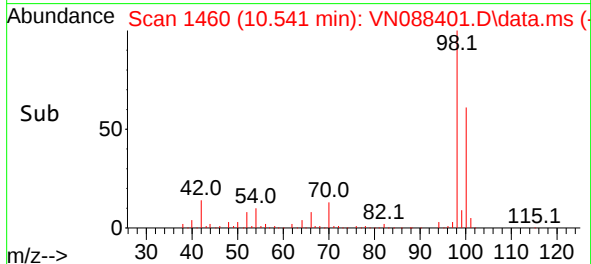
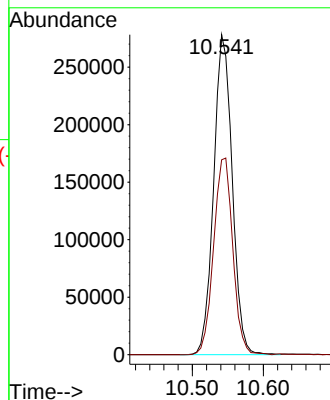
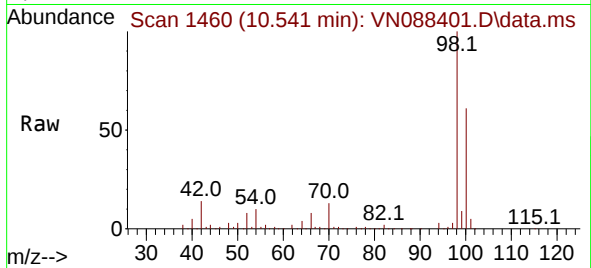




#50
Toluene-d8
Concen: 50.942 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088401.D
Acq: 02 Dec 2025 11:54

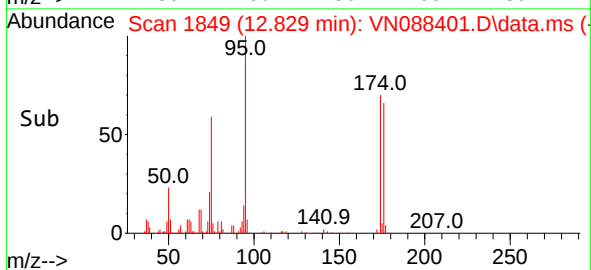
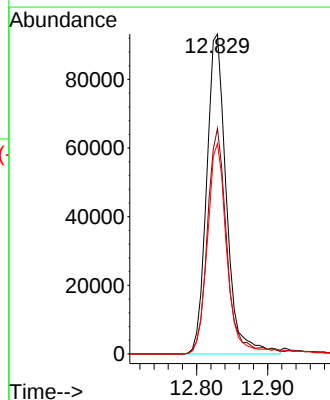
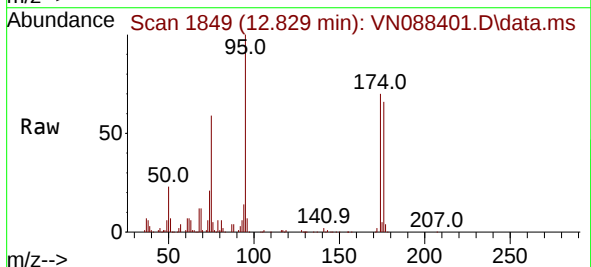
Instrument :
MSVOA_N
ClientSampleId :

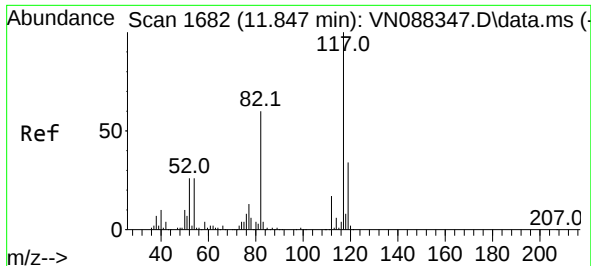
Tgt Ion: 98 Resp: 504101
Ion Ratio Lower Upper
98 100
100 63.5 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 53.099 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088401.D
Acq: 02 Dec 2025 11:54

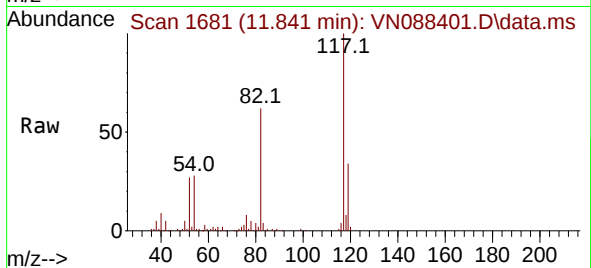
Tgt Ion: 95 Resp: 180291
Ion Ratio Lower Upper
95 100
174 69.4 0.0 139.0
176 66.3 0.0 132.4



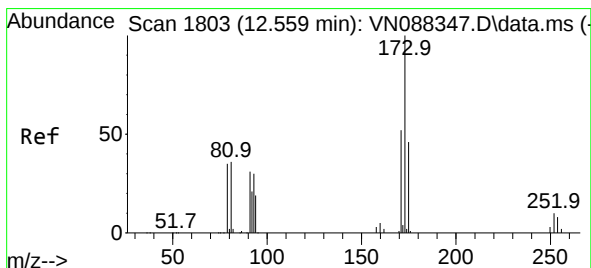
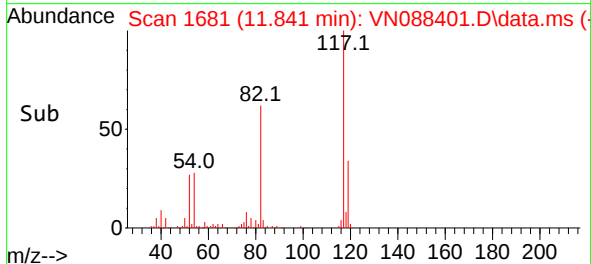
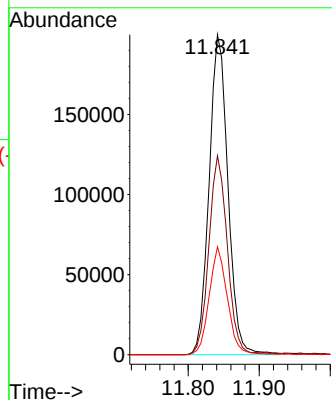


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088401.D
Acq: 02 Dec 2025 11:54

Instrument :
MSVOA_N
ClientSampleId :

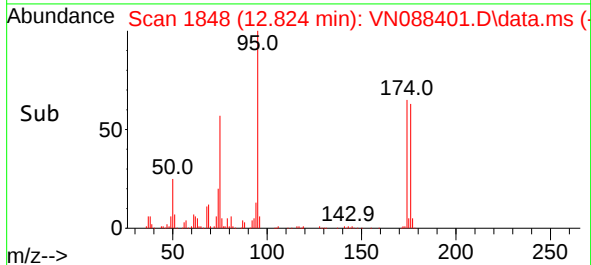
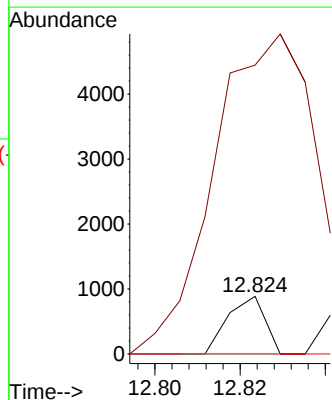
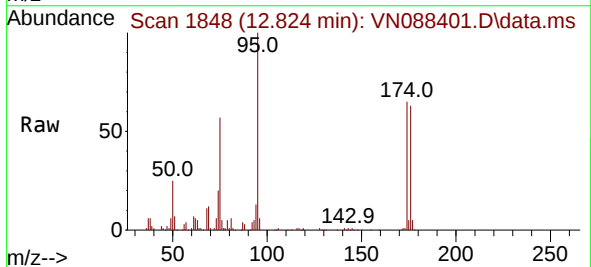


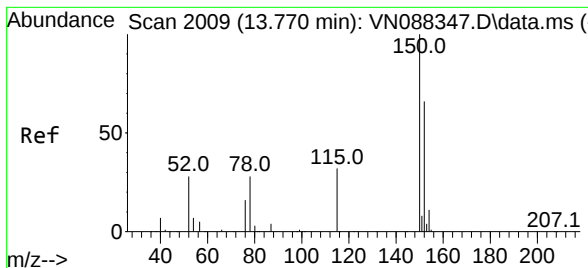
Tgt Ion:117 Resp: 368398
Ion Ratio Lower Upper
117 100
82 62.2 47.8 71.8
119 33.7 26.9 40.3



#71
Bromoform
Concen: 0.263 ug/l
RT: 12.824 min Scan# 1848
Delta R.T. 0.265 min
Lab File: VN088401.D
Acq: 02 Dec 2025 11:54

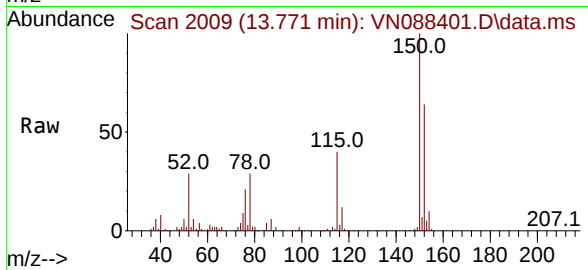
Tgt Ion:173 Resp: 538
Ion Ratio Lower Upper
173 100
175 1385.7 23.9 71.8#
254 0.0 0.1 0.1#



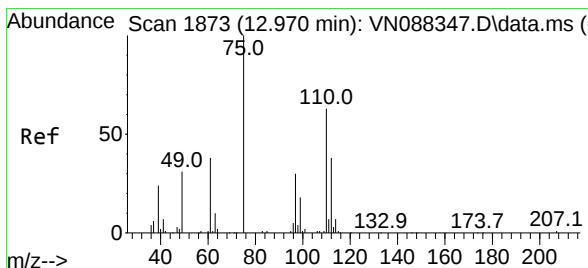
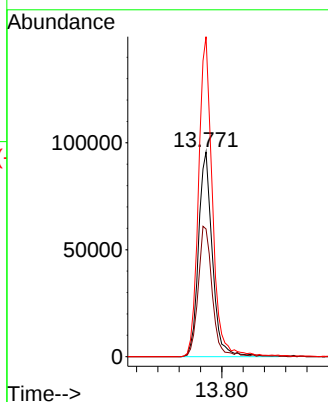
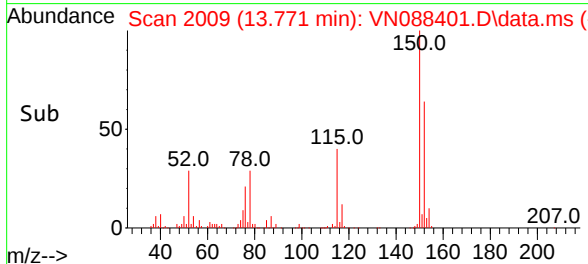


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.771 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN088401.D
 Acq: 02 Dec 2025 11:54

Instrument :
 MSVOA_N
 ClientSampleId :

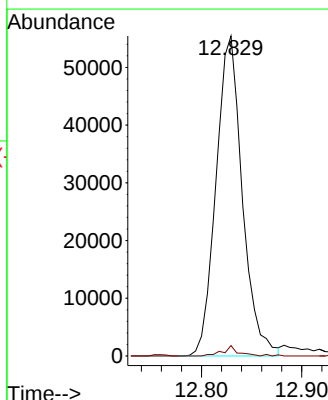
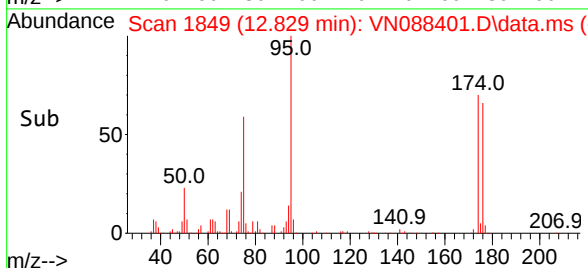
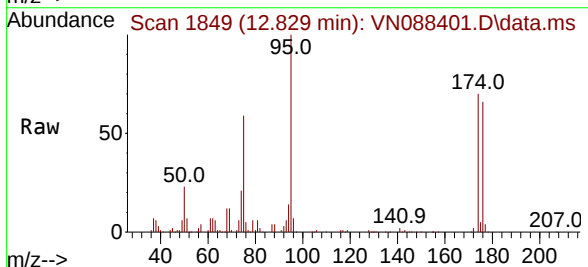


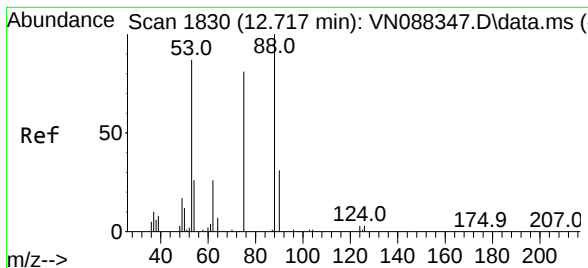
Tgt Ion:152 Resp: 173011
 Ion Ratio Lower Upper
 152 100
 115 64.4 33.0 98.9
 150 155.6 0.0 349.0



#76
 1,2,3-Trichloropropane
 Concen: 24.935 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN088401.D
 Acq: 02 Dec 2025 11:54

Tgt Ion: 75 Resp: 101044
 Ion Ratio Lower Upper
 75 100
 77 1.8 87.2 261.6#

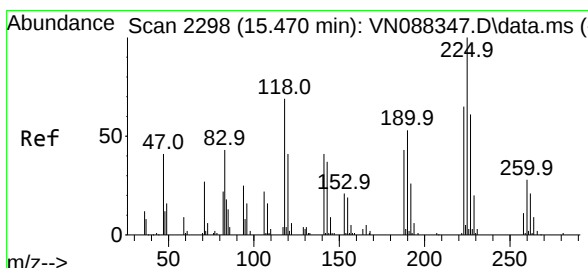
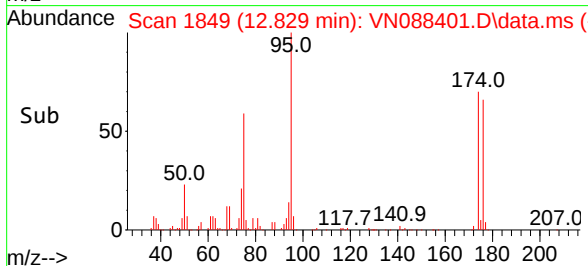
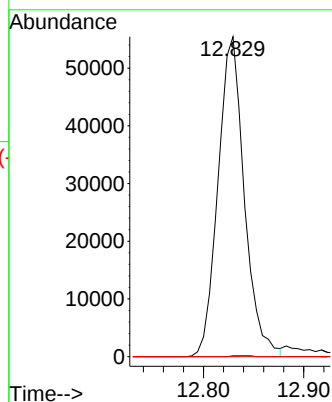
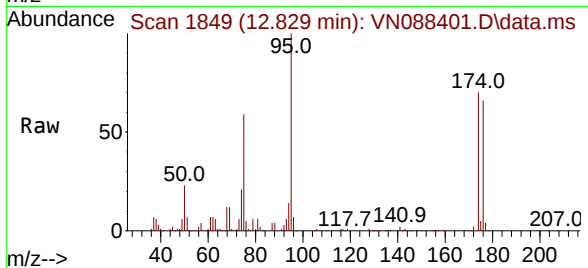




#81
trans-1,4-Dichloro-2-butene
Concen: 70.740 ug/l
RT: 12.829 min Scan# 1830
Delta R.T. 0.112 min
Lab File: VN088401.D
Acq: 02 Dec 2025 11:54

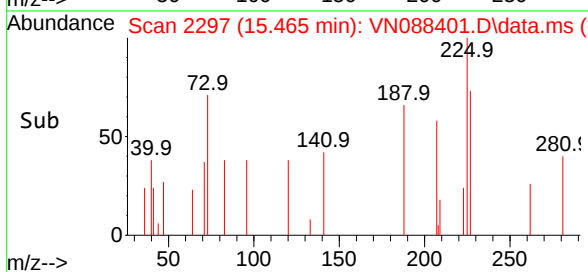
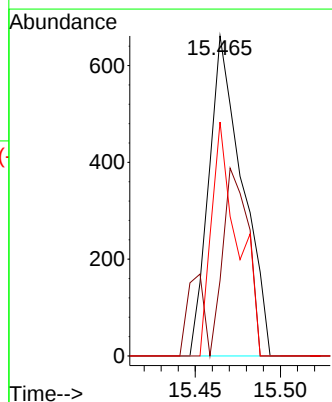
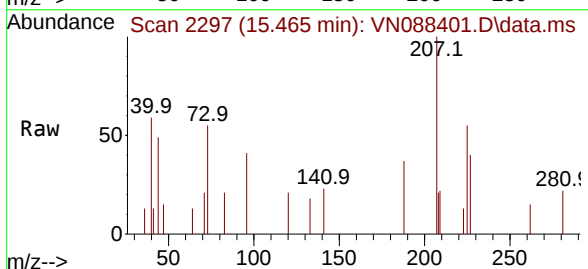
Instrument :
MSVOA_N
ClientSampleId :

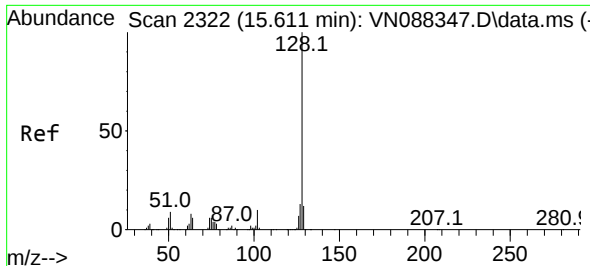
Tgt Ion: 75 Resp: 101044
Ion Ratio Lower Upper
75 100
53 0.2 92.2 138.4#
89 0.0 0.0 0.0



#94
Hexachlorobutadiene
Concen: 0.791 ug/l
RT: 15.465 min Scan# 2297
Delta R.T. -0.006 min
Lab File: VN088401.D
Acq: 02 Dec 2025 11:54

Tgt Ion: 225 Resp: 906
Ion Ratio Lower Upper
225 100
223 44.4 32.3 96.8
227 57.3 29.9 89.8

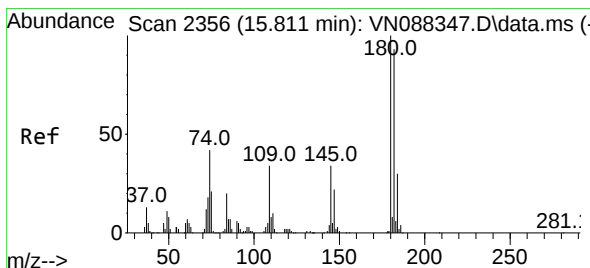
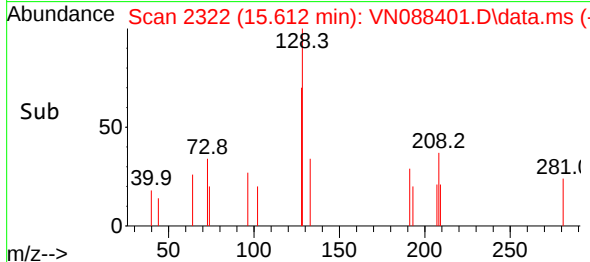
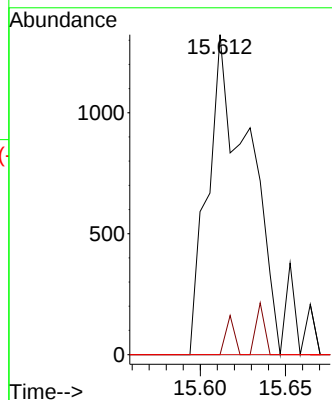
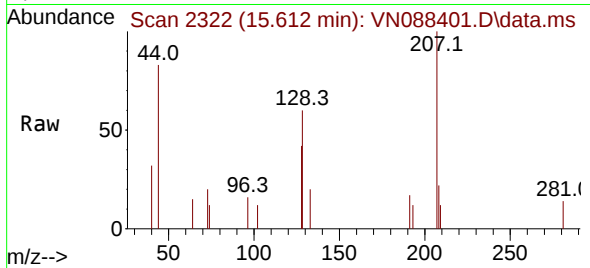




#95
Naphthalene
Concen: 0.201 ug/l
RT: 15.612 min Scan# 2322
Delta R.T. 0.000 min
Lab File: VN088401.D
Acq: 02 Dec 2025 11:54

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 2214
Ion Ratio Lower Upper
128 100
127 2.6 10.4 15.6#
129 0.0 9.0 13.6#



#96
1,2,3-Trichlorobenzene
Concen: 0.233 ug/l
RT: 15.812 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN088401.D
Acq: 02 Dec 2025 11:54

Tgt Ion:180 Resp: 721
Ion Ratio Lower Upper
180 100
182 98.9 45.9 137.7
145 0.0 17.8 53.4#

