

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110625\
 Data File : VN088205.D
 Acq On : 06 Nov 2025 14:49
 Operator : JC\MD
 Sample : Q3532-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

Quant Time: Nov 07 02:19:50 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)

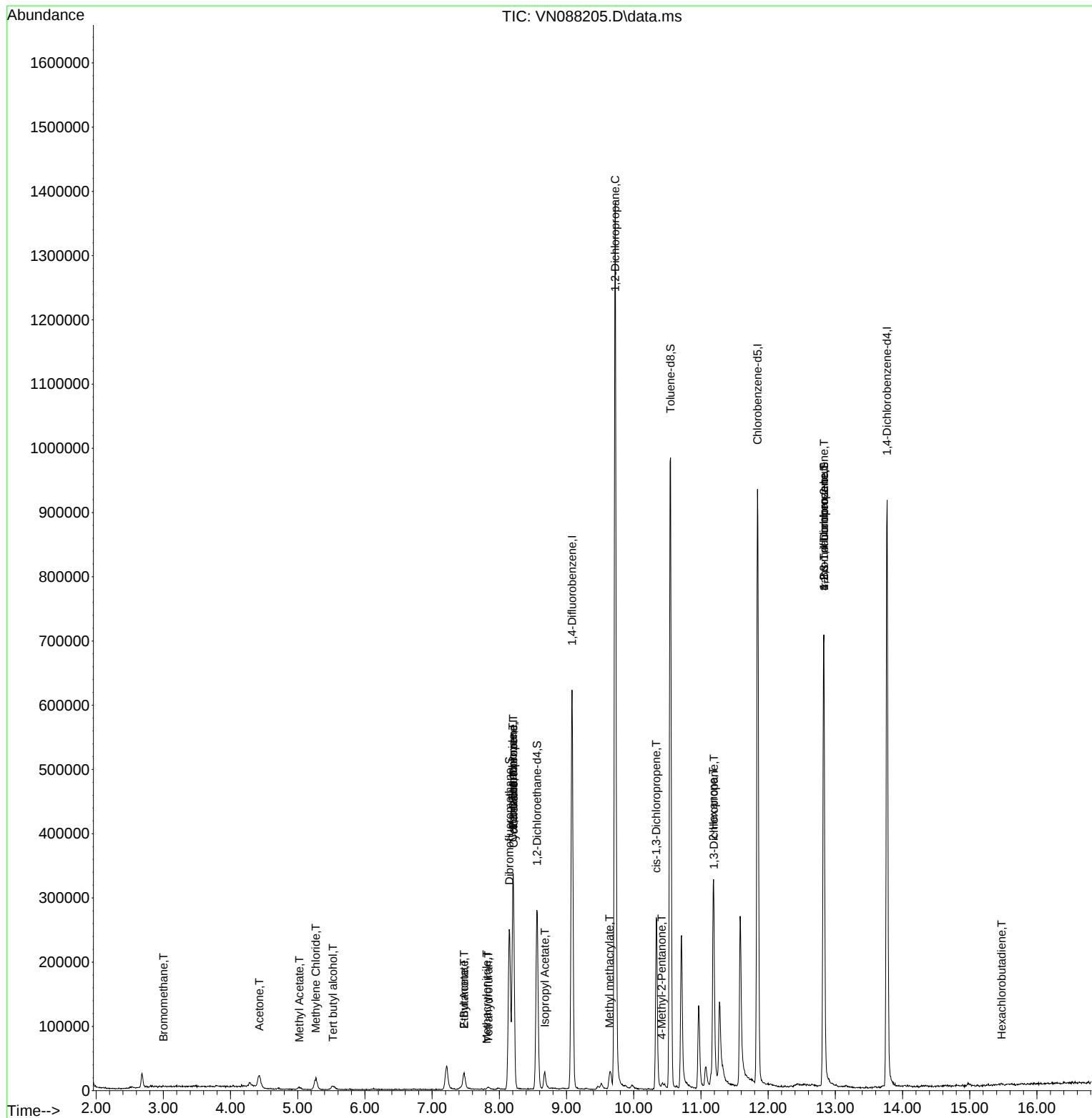
Internal Standards						
1) Pentafluorobenzene	8.206	168	226893	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	513506	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	497289	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	239455	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	235809	60.102	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 120.200%	
35) Dibromofluoromethane	8.147	113	176907	51.281	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.560%	
50) Toluene-d8	10.547	98	668684	50.305	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.620%	
62) 4-Bromofluorobenzene	12.829	95	269048	57.312	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 114.620%	
Target Compounds						
					Qvalue	
5) Bromomethane	3.001	94	575	0.293	ug/l	82
11) Tert butyl alcohol	5.524	59	10139	15.000	ug/l	98
16) Acetone	4.430	43	39362	19.970	ug/l	98
18) Methyl Acetate	5.024	43	7410	1.836	ug/l #	80
20) Methylene Chloride	5.271	84	12749	3.853	ug/l #	89
25) 2-Butanone	7.477	43	45992	17.706	ug/l	94
29) Tetrahydrofuran	7.836	42	3014	1.780	ug/l #	46
31) Cyclohexane	8.212	56	7276	1.325	ug/l #	65
36) 1,1-Dichloropropene	8.206	75	22220	4.411	ug/l #	53
37) Ethyl Acetate	7.477	43	45992	7.075	ug/l #	72
38) Carbon Tetrachloride	8.200	117	25810	4.961	ug/l #	16
41) Methacrylonitrile	7.812	41	729	0.213	ug/l #	24
43) Isopropyl Acetate	8.677	43	30566	3.060	ug/l #	92
45) 1,2-Dichloropropane	9.724	63	1750	0.452	ug/l #	43
48) Methyl methacrylate	9.641	41	6027	1.307	ug/l #	49
51) 4-Methyl-2-Pentanone	10.418	43	6732	1.139	ug/l	88
54) cis-1,3-Dichloropropene	10.335	75	48569	7.777	ug/l #	65
57) 1,3-Dichloropropane	11.194	76	3475	0.551	ug/l #	42
59) 2-Hexanone	11.182	43	82899	21.148	ug/l #	58
76) 1,2,3-Trichloropropane	12.829	75	151868	27.740	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	151868	77.382	ug/l #	1
94) Hexachlorobutadiene	15.476	225	397	0.230	ug/l #	47

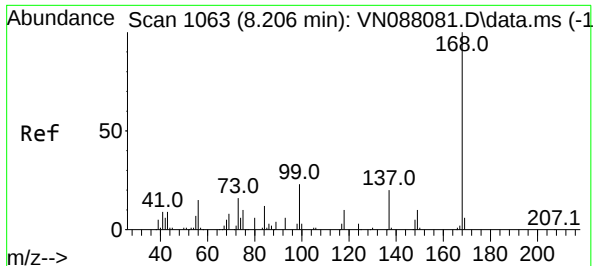
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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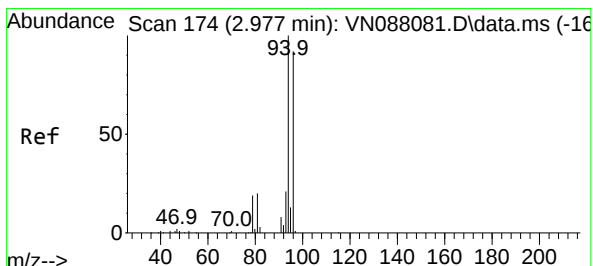
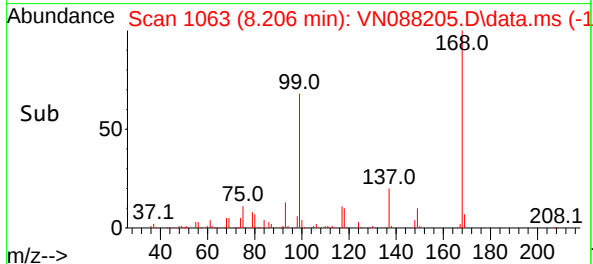
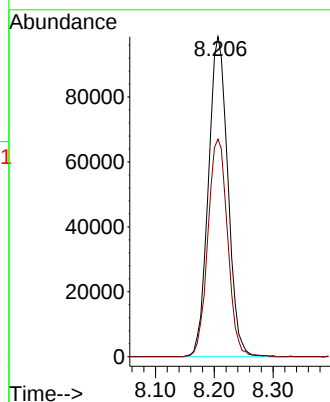
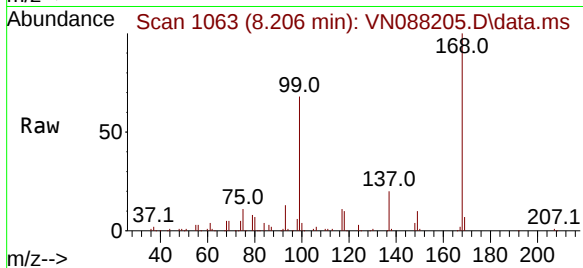




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN088205.D
Acq: 06 Nov 2025 14:49

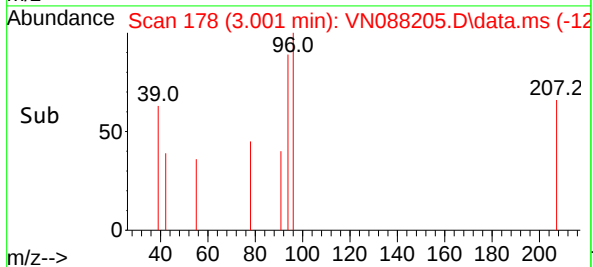
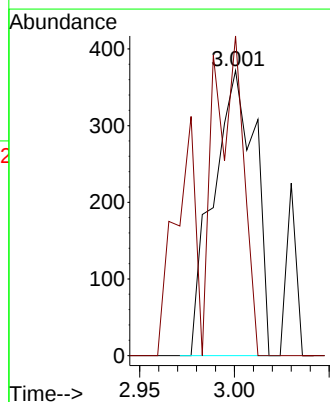
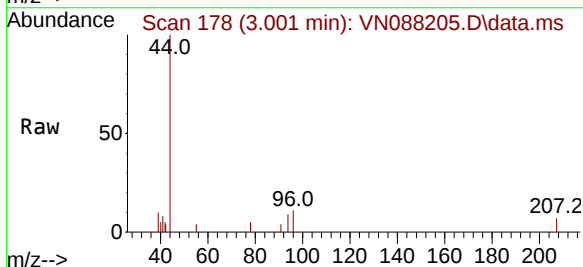
Instrument :
MSVOA_N
ClientSampleId :
TP-2

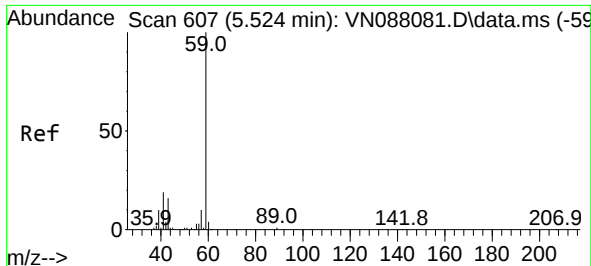
Tgt Ion:168 Resp: 226893
Ion Ratio Lower Upper
168 100
99 68.0 57.2 85.8



#5
Bromomethane
Concen: 0.293 ug/l
RT: 3.001 min Scan# 178
Delta R.T. 0.029 min
Lab File: VN088205.D
Acq: 06 Nov 2025 14:49

Tgt Ion: 94 Resp: 575
Ion Ratio Lower Upper
94 100
96 112.1 75.4 113.2

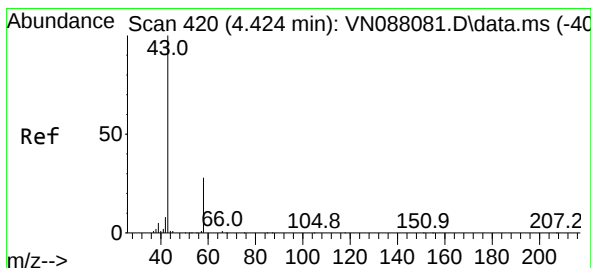
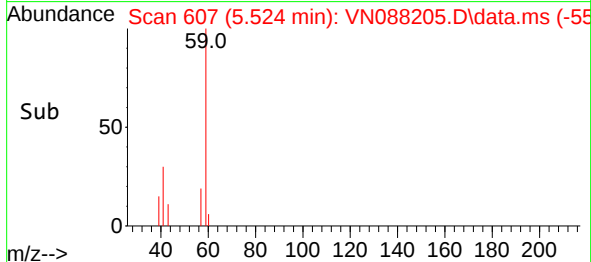
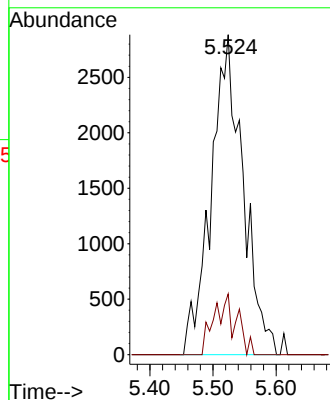
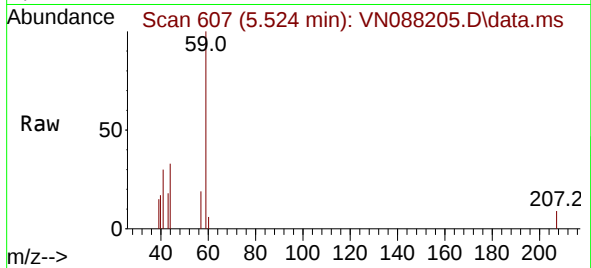




#11
Tert butyl alcohol
Concen: 15.000 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN088205.D
Acq: 06 Nov 2025 14:49

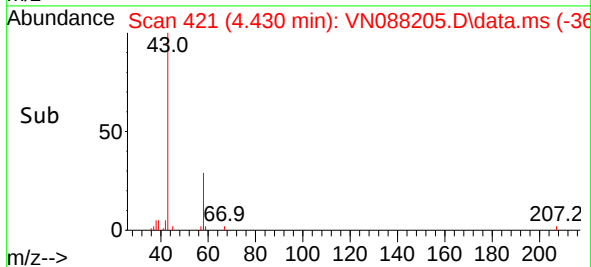
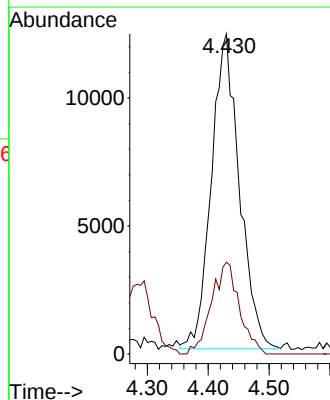
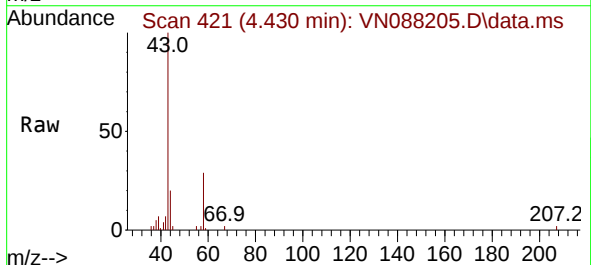
Instrument :
MSVOA_N
ClientSampleId :
TP-2

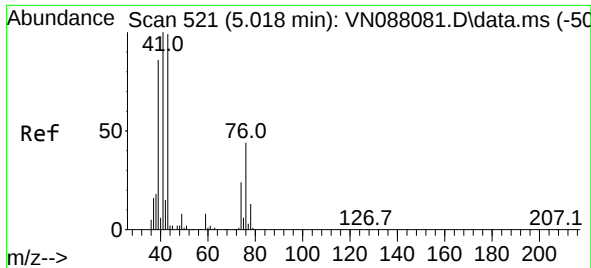
Tgt Ion: 59 Resp: 10139
Ion Ratio Lower Upper
59 100
57 10.4 9.0 13.4



#16
Acetone
Concen: 19.970 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN088205.D
Acq: 06 Nov 2025 14:49

Tgt Ion: 43 Resp: 39362
Ion Ratio Lower Upper
43 100
58 29.1 22.6 33.8

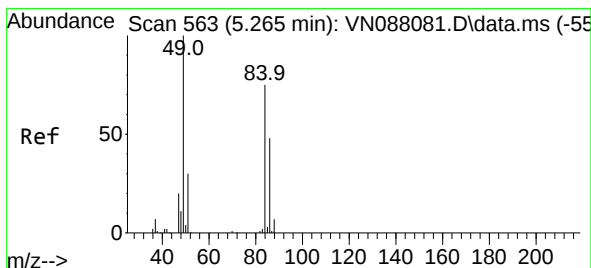
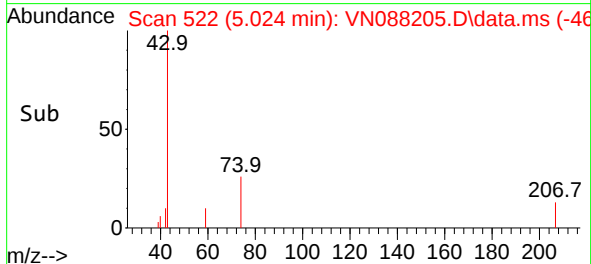
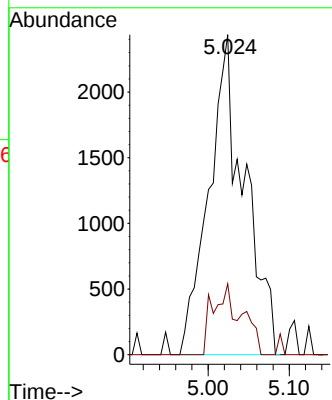
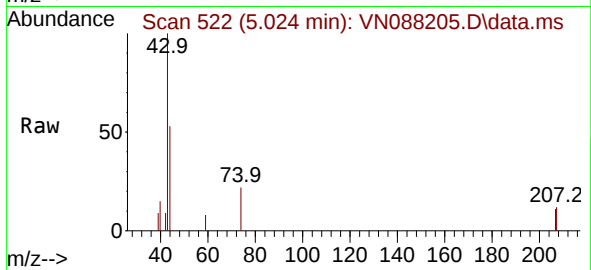




#18
Methyl Acetate
Concen: 1.836 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN088205.D
Acq: 06 Nov 2025 14:49

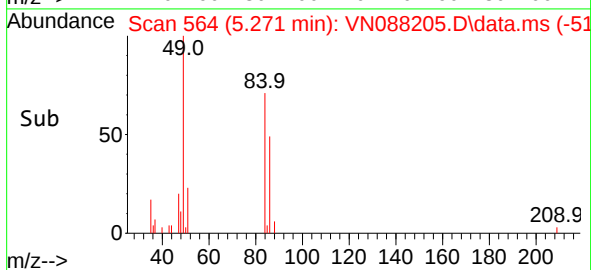
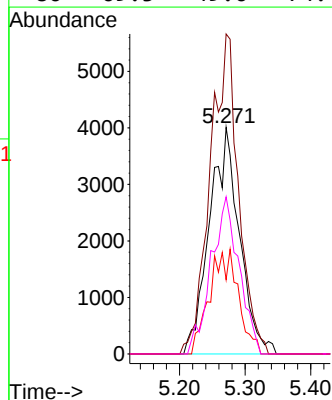
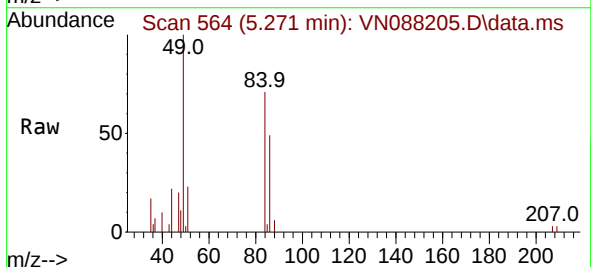
Instrument :
MSVOA_N
ClientSampleId :
TP-2

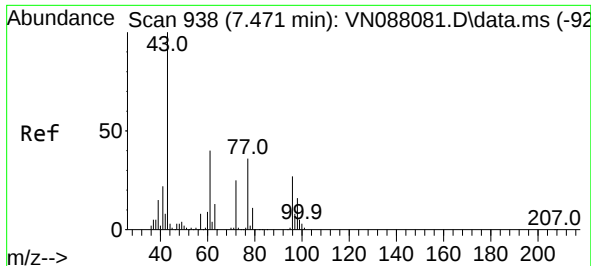
Tgt Ion: 43 Resp: 7410
Ion Ratio Lower Upper
43 100
74 12.4 17.6 26.4#



#20
Methylene Chloride
Concen: 3.853 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.006 min
Lab File: VN088205.D
Acq: 06 Nov 2025 14:49

Tgt Ion: 84 Resp: 12749
Ion Ratio Lower Upper
84 100
49 141.3 103.4 155.2
51 32.8 33.8 50.8#
86 69.3 49.6 74.4

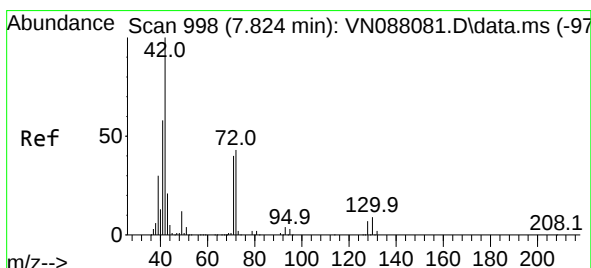
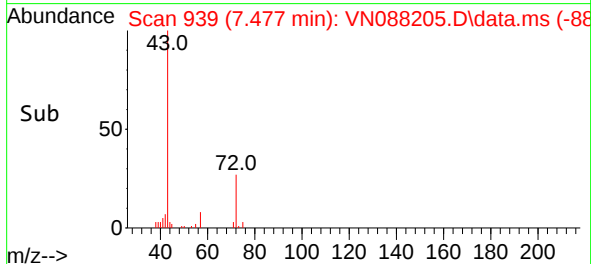
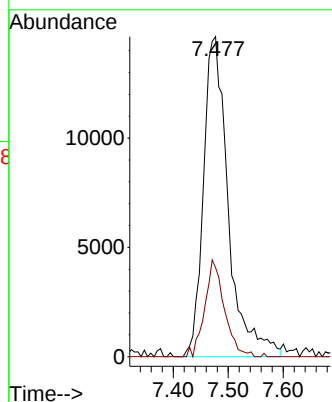
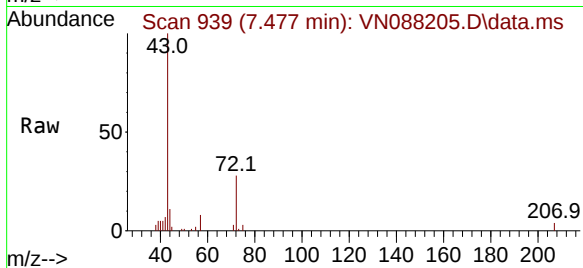




#25
2-Butanone
Concen: 17.706 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN088205.D
Acq: 06 Nov 2025 14:49

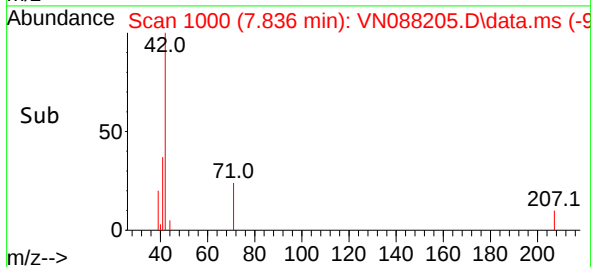
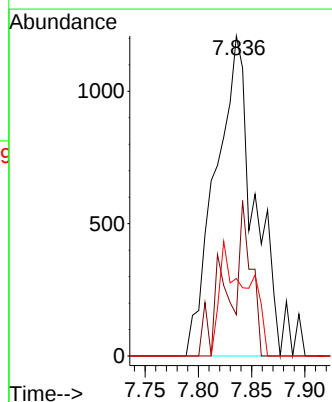
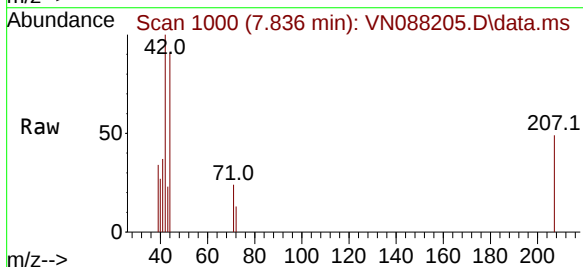
Instrument :
MSVOA_N
ClientSampleId :
TP-2

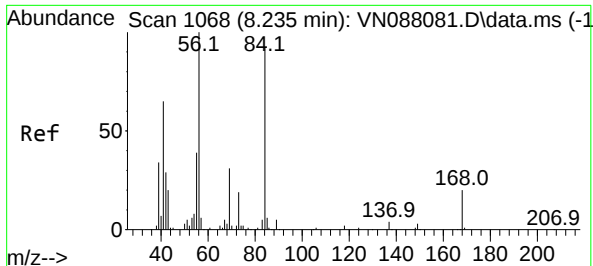
Tgt Ion: 43 Resp: 45992
Ion Ratio Lower Upper
43 100
72 27.8 19.9 29.9



#29
Tetrahydrofuran
Concen: 1.780 ug/l
RT: 7.836 min Scan# 1000
Delta R.T. 0.012 min
Lab File: VN088205.D
Acq: 06 Nov 2025 14:49

Tgt Ion: 42 Resp: 3014
Ion Ratio Lower Upper
42 100
72 14.6 33.7 50.5#
71 0.0 31.9 47.9#

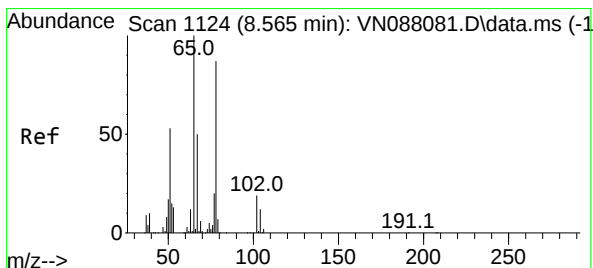
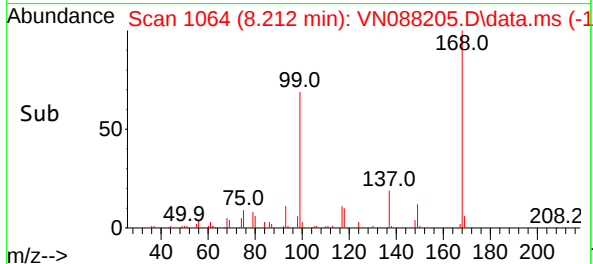
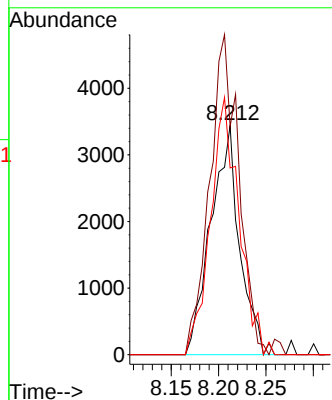
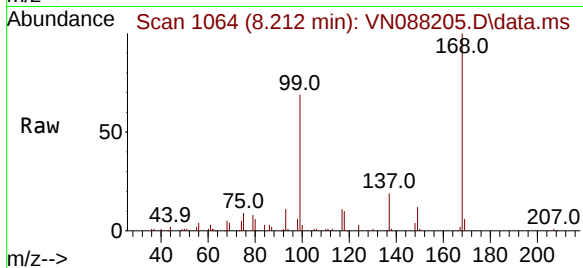




#31
Cyclohexane
Concen: 1.325 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.024 min
Lab File: VN088205.D
Acq: 06 Nov 2025 14:49

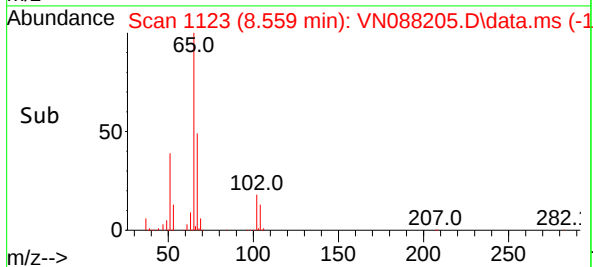
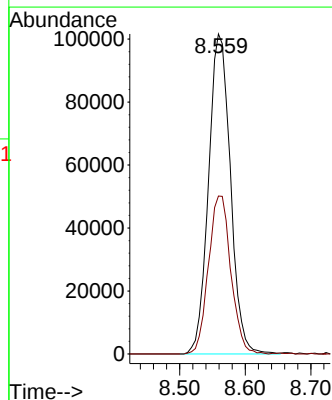
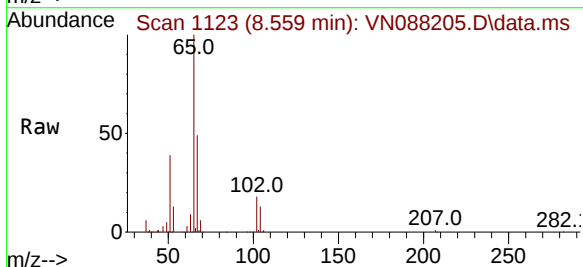
Instrument :
MSVOA_N
ClientSampleId :
TP-2

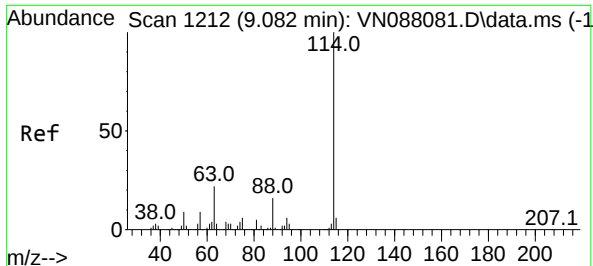
Tgt Ion: 56 Resp: 7276
Ion Ratio Lower Upper
56 100
69 99.5 23.7 35.5#
84 81.4 64.7 97.1



#33
1,2-Dichloroethane-d4
Concen: 60.102 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088205.D
Acq: 06 Nov 2025 14:49

Tgt Ion: 65 Resp: 235809
Ion Ratio Lower Upper
65 100
67 50.5 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN088205.D

Acq: 06 Nov 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

TP-2

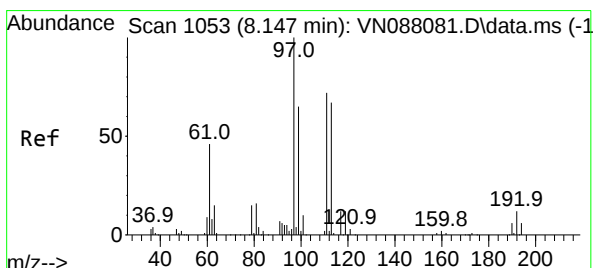
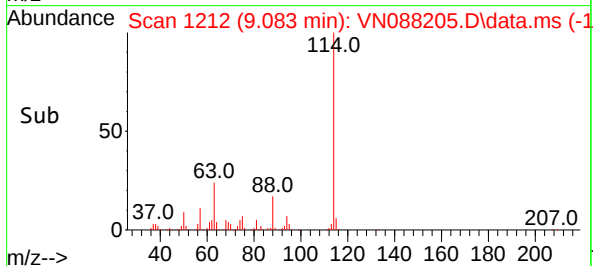
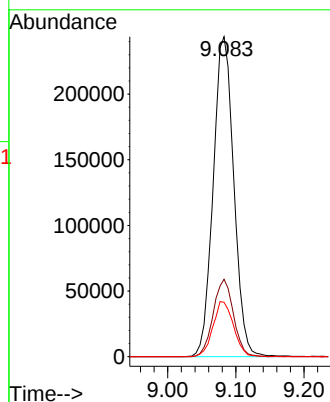
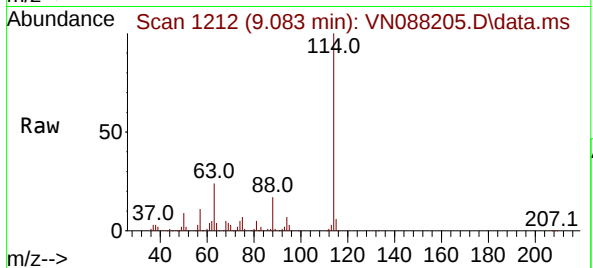
Tgt Ion:114 Resp: 513506

Ion Ratio Lower Upper

114 100

63 24.2 0.0 45.2

88 17.0 0.0 33.4



#35

Dibromofluoromethane

Concen: 51.281 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088205.D

Acq: 06 Nov 2025 14:49

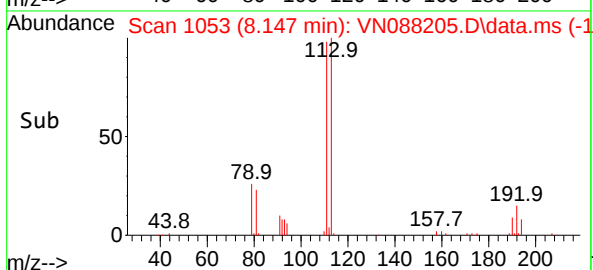
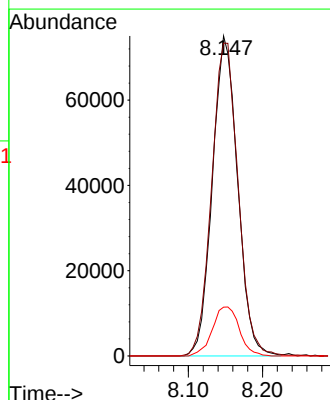
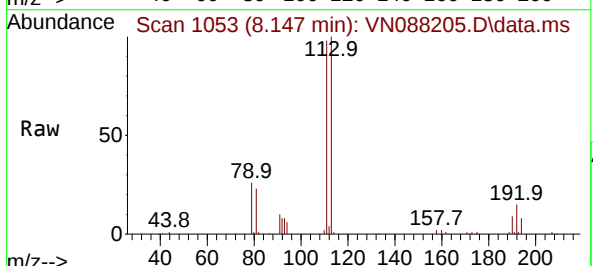
Tgt Ion:113 Resp: 176907

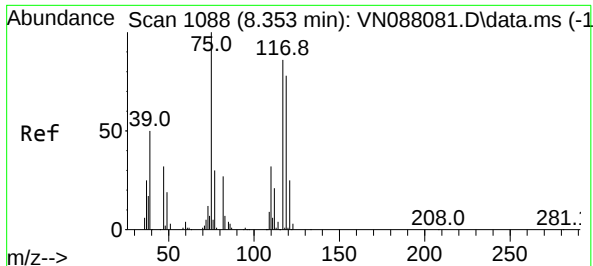
Ion Ratio Lower Upper

113 100

111 102.7 82.8 124.2

192 16.4 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.411 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088205.D

Acq: 06 Nov 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

TP-2

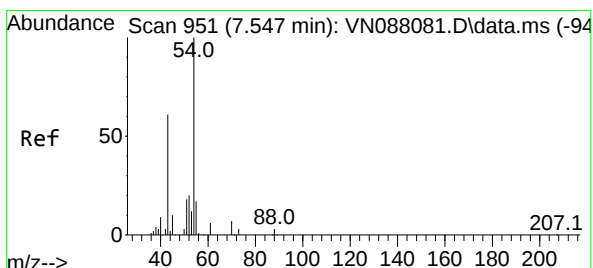
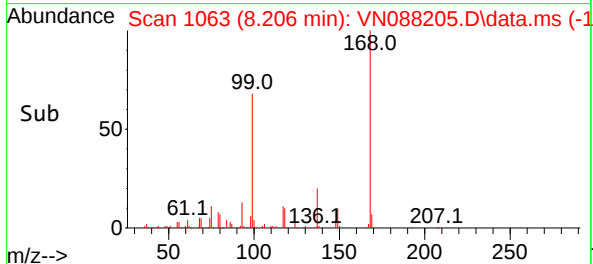
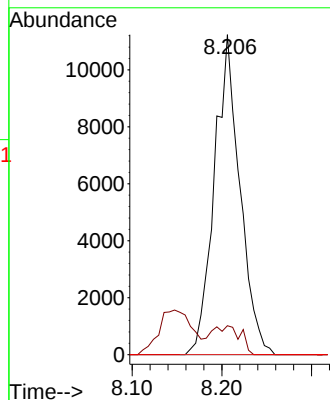
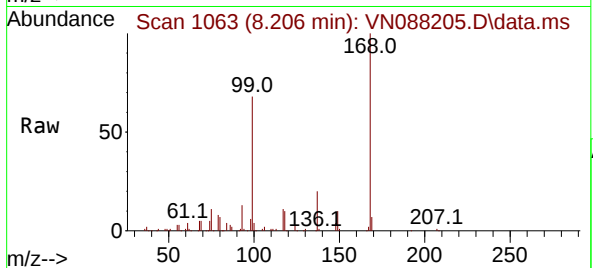
Tgt Ion: 75 Resp: 22220

Ion Ratio Lower Upper

75 100

110 10.8 15.9 47.6#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 7.075 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.071 min

Lab File: VN088205.D

Acq: 06 Nov 2025 14:49

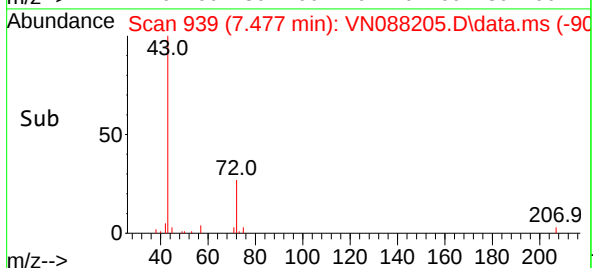
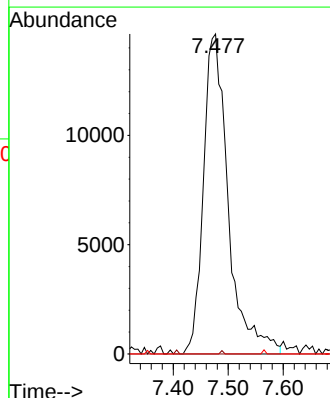
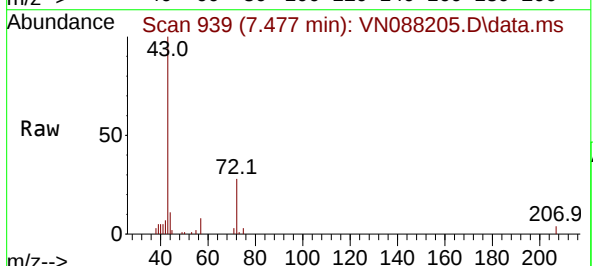
Tgt Ion: 43 Resp: 45992

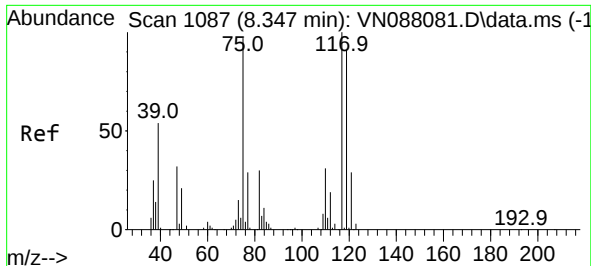
Ion Ratio Lower Upper

43 100

61 0.1 9.3 13.9#

70 0.0 7.0 10.6#

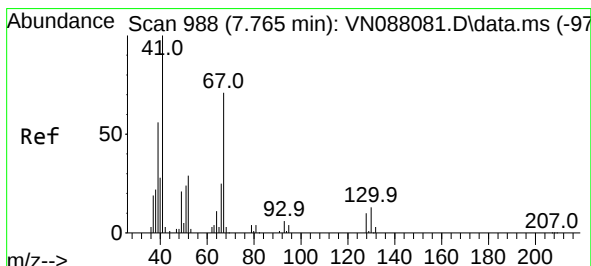
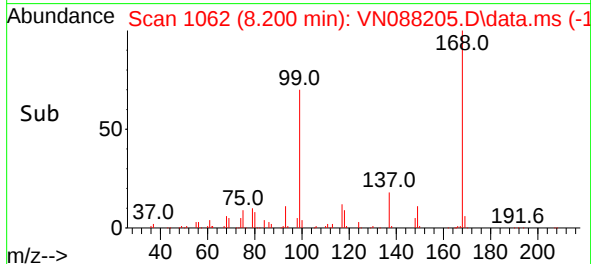
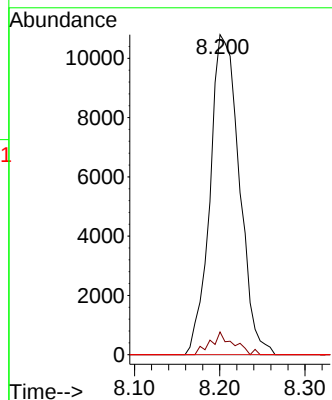
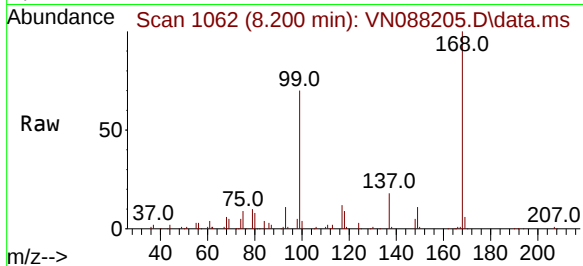




#38
Carbon Tetrachloride
Concen: 4.961 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.141 min
Lab File: VN088205.D
Acq: 06 Nov 2025 14:49

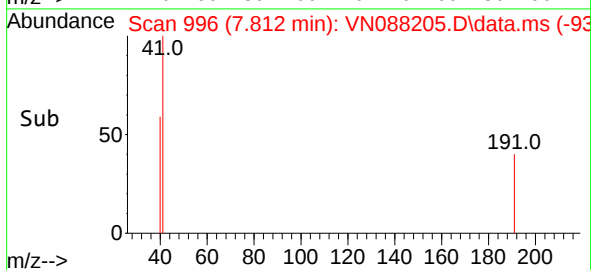
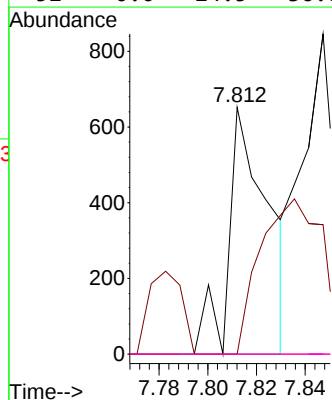
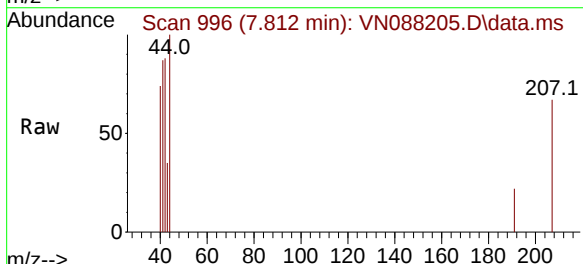
Instrument :
MSVOA_N
ClientSampleId :
TP-2

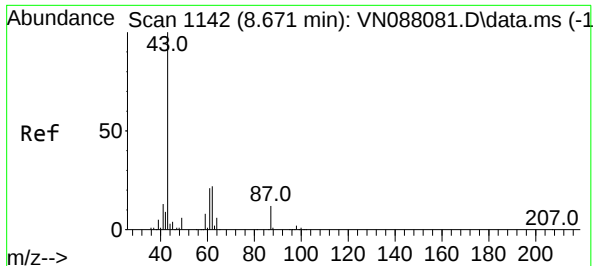
Tgt Ion:117 Resp: 25810
Ion Ratio Lower Upper
117 100
119 7.1 79.0 118.6#
121 0.0 25.0 37.6#



#41
Methacrylonitrile
Concen: 0.213 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.053 min
Lab File: VN088205.D
Acq: 06 Nov 2025 14:49

Tgt Ion: 41 Resp: 729
Ion Ratio Lower Upper
41 100
39 0.0 45.4 68.0#
67 0.0 55.3 82.9#
52 0.0 24.5 36.7#





#43

Isopropyl Acetate

Concen: 3.060 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VN088205.D

Acq: 06 Nov 2025 14:49

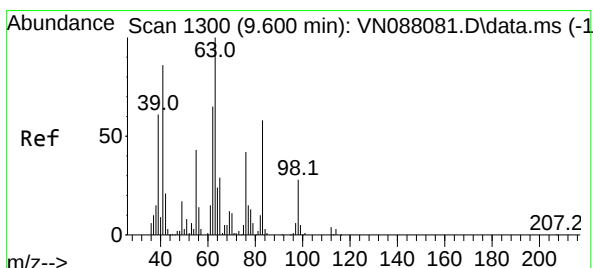
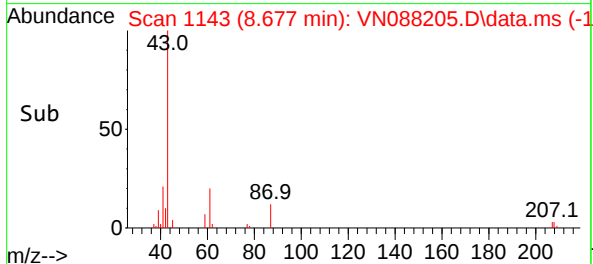
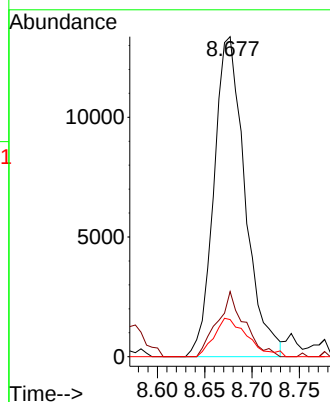
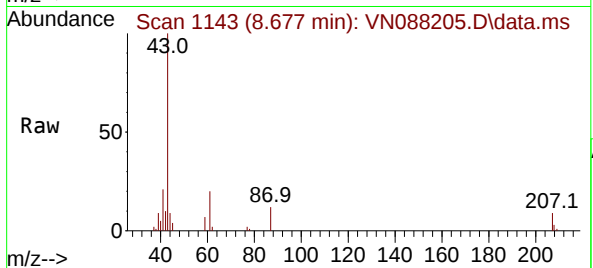
Instrument :

MSVOA_N

ClientSampleId :

TP-2

Tgt Ion: 43	Resp: 30566
Ion Ratio	Lower Upper
43	100
61	17.9 18.8 28.2#
87	12.9 9.6 14.4



#45

1,2-Dichloropropane

Concen: 0.452 ug/l

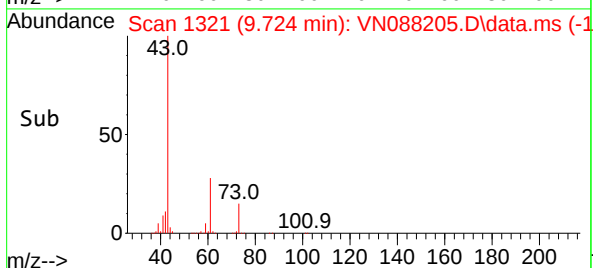
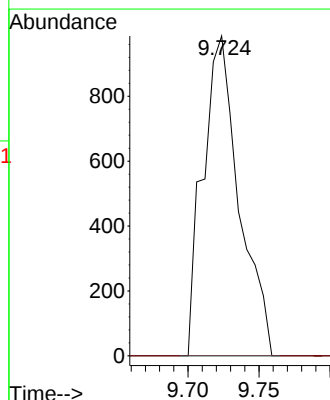
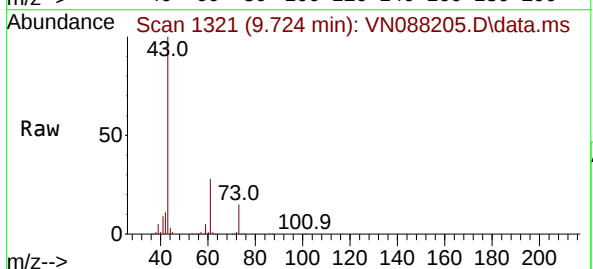
RT: 9.724 min Scan# 1321

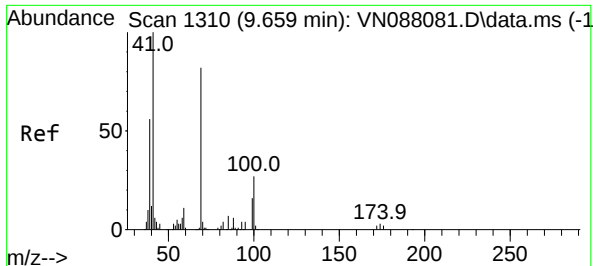
Delta R.T. 0.124 min

Lab File: VN088205.D

Acq: 06 Nov 2025 14:49

Tgt Ion: 63	Resp: 1750
Ion Ratio	Lower Upper
63	100
65	0.0 25.0 37.4#





#48

Methyl methacrylate

Concen: 1.307 ug/l

RT: 9.641 min Scan# 11

Delta R.T. -0.024 min

Lab File: VN088205.D

Acq: 06 Nov 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

TP-2

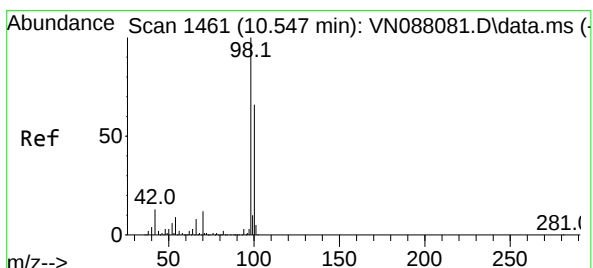
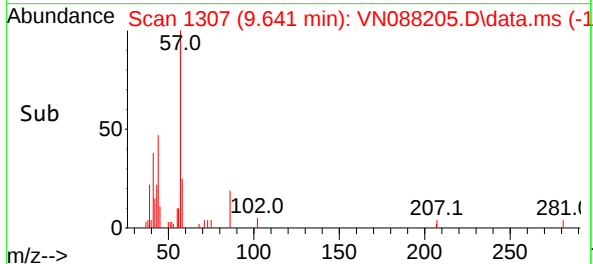
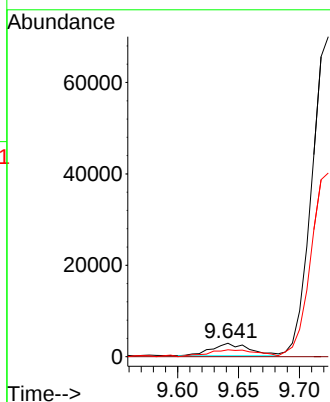
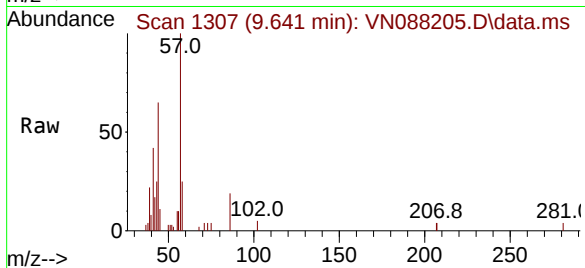
Tgt Ion: 41 Resp: 6027

Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

39 70.4 52.9 79.3



#50

Toluene-d8

Concen: 50.305 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN088205.D

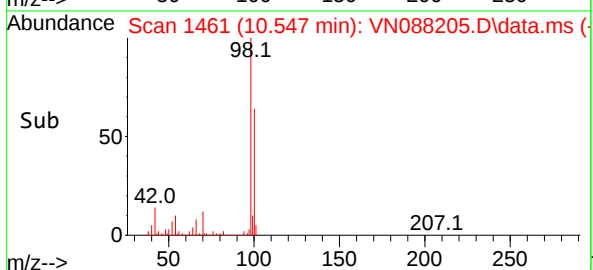
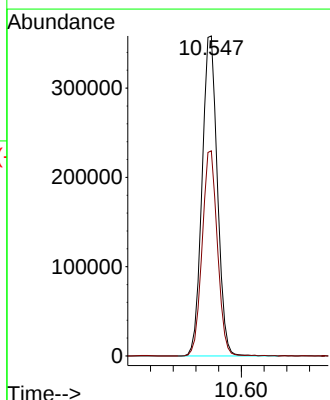
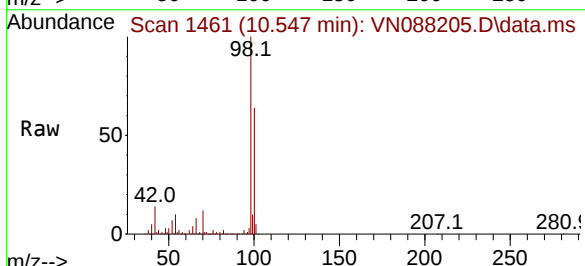
Acq: 06 Nov 2025 14:49

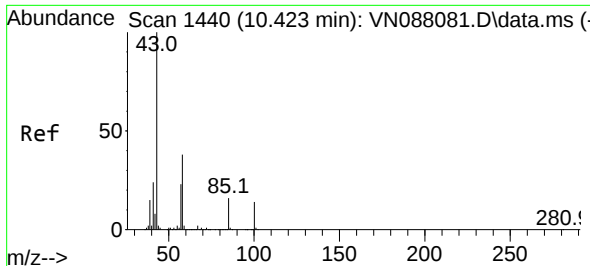
Tgt Ion: 98 Resp: 668684

Ion Ratio Lower Upper

98 100

100 63.7 52.8 79.2

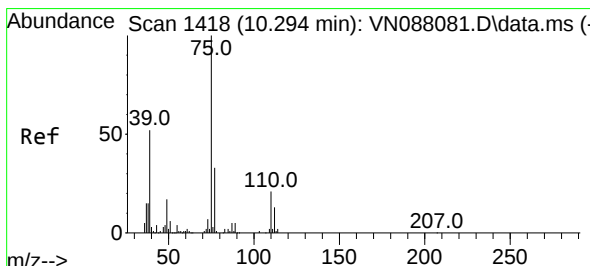
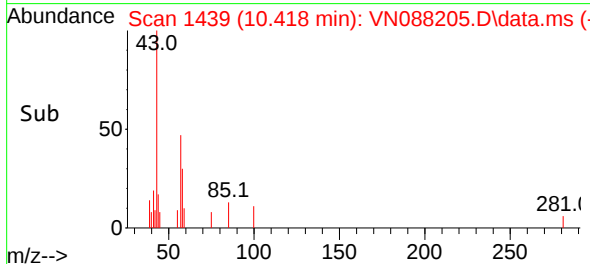
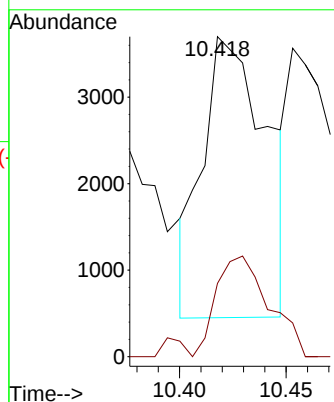
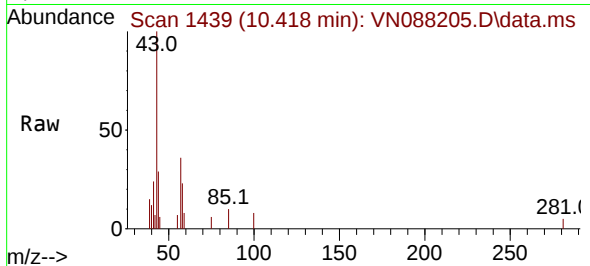




#51
4-Methyl-2-Pentanone
Concen: 1.139 ug/l
RT: 10.418 min Scan# 1440
Delta R.T. -0.006 min
Lab File: VN088205.D
Acq: 06 Nov 2025 14:49

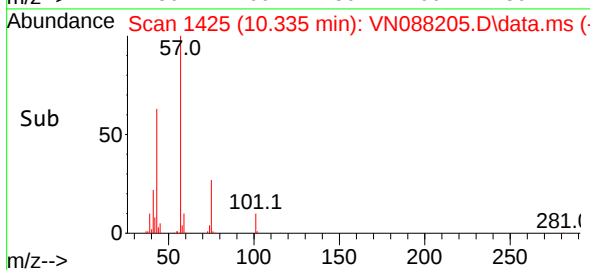
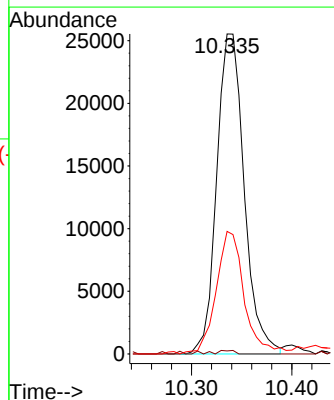
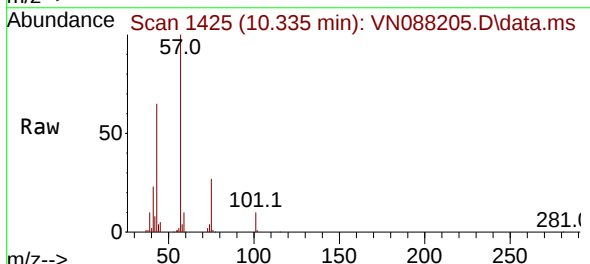
Instrument :
MSVOA_N
ClientSampleId :
TP-2

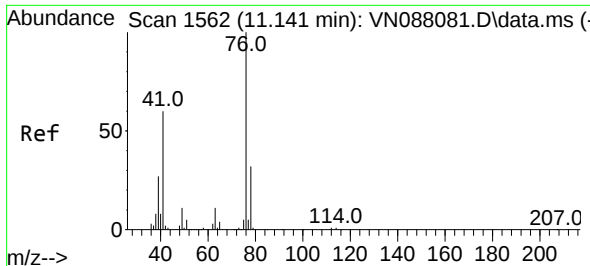
Tgt Ion: 43 Resp: 6732
Ion Ratio Lower Upper
43 100
58 29.8 29.6 44.4



#54
cis-1,3-Dichloropropene
Concen: 7.777 ug/l
RT: 10.335 min Scan# 1425
Delta R.T. 0.047 min
Lab File: VN088205.D
Acq: 06 Nov 2025 14:49

Tgt Ion: 75 Resp: 48569
Ion Ratio Lower Upper
75 100
77 1.0 24.6 37.0#
39 38.3 45.2 67.8#





#57

1,3-Dichloropropane

Concen: 0.551 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.053 min

Lab File: VN088205.D

Acq: 06 Nov 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

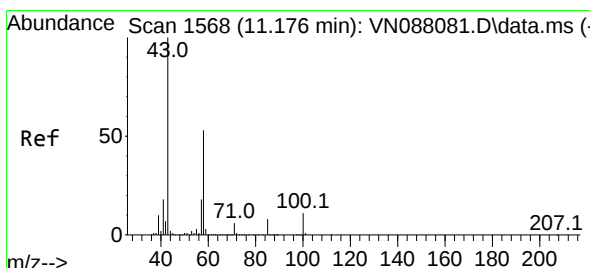
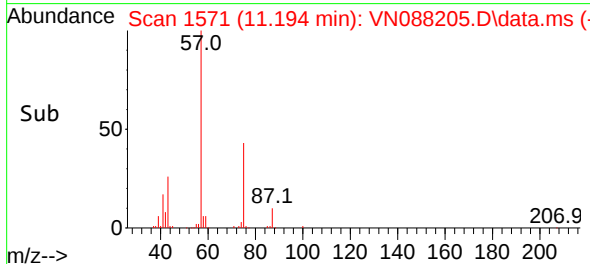
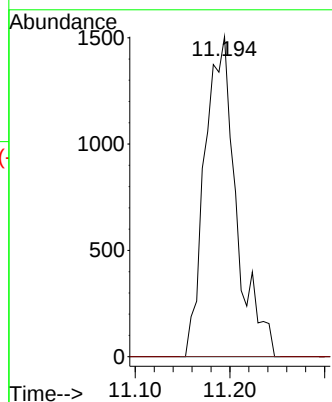
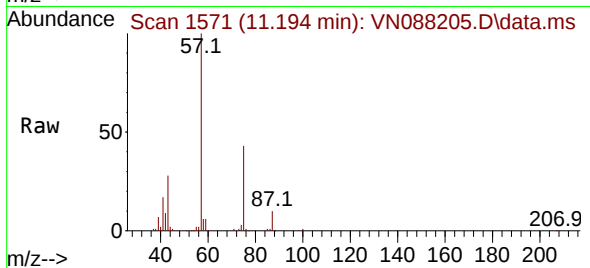
TP-2

Tgt Ion: 76 Resp: 3475

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 21.148 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VN088205.D

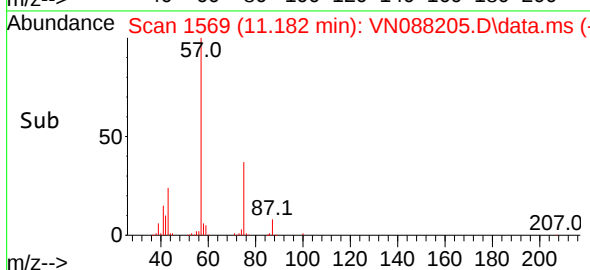
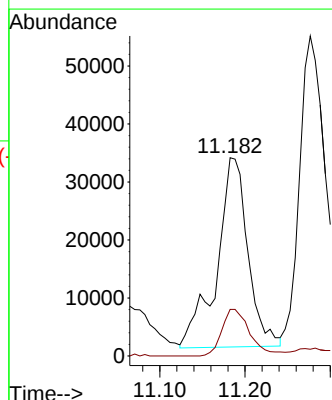
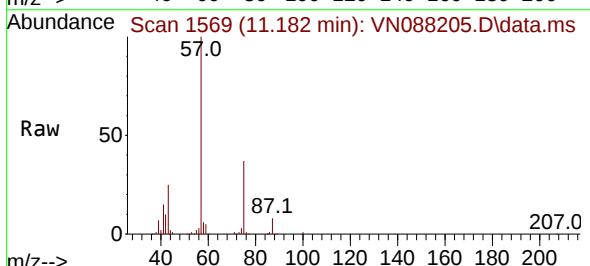
Acq: 06 Nov 2025 14:49

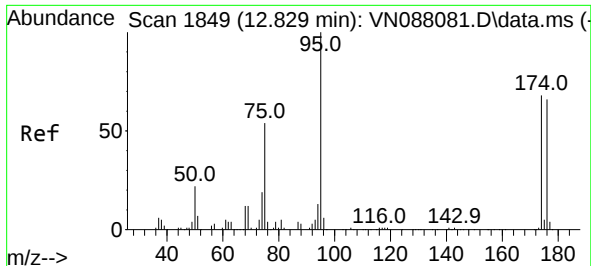
Tgt Ion: 43 Resp: 82899

Ion Ratio Lower Upper

43 100

58 22.4 25.9 77.8#

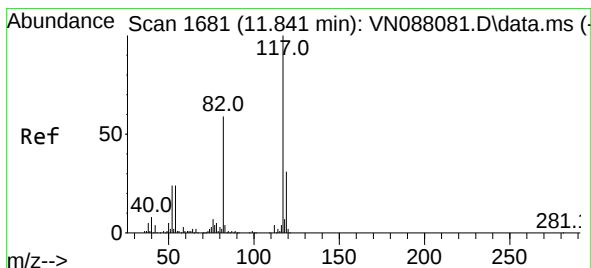
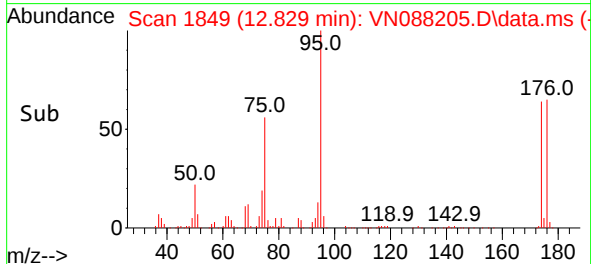
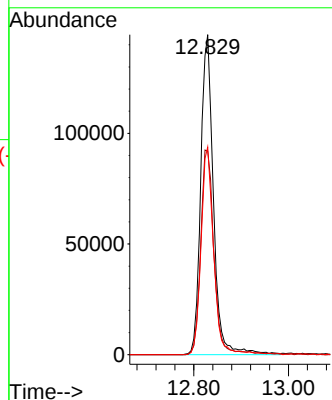
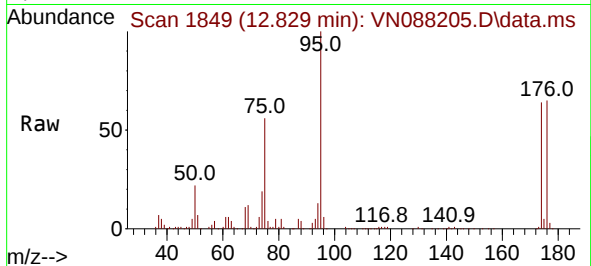




#62
4-Bromofluorobenzene
Concen: 57.312 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088205.D
Acq: 06 Nov 2025 14:49

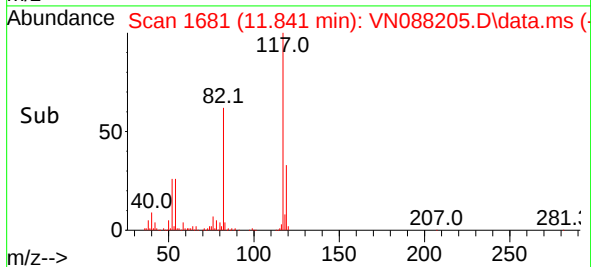
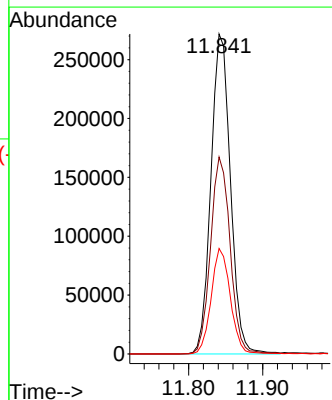
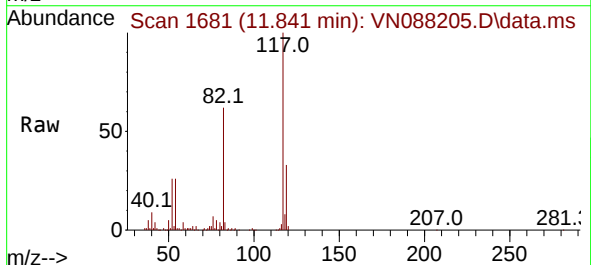
Instrument :
MSVOA_N
ClientSampleId :
TP-2

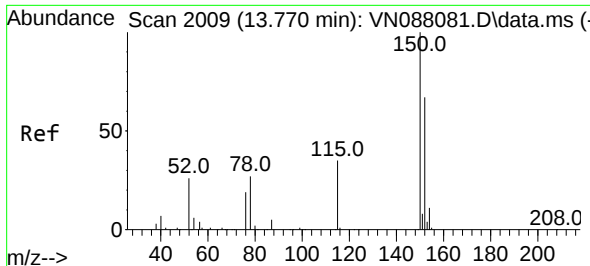
Tgt Ion: 95 Resp: 269048
Ion Ratio Lower Upper
95 100
174 66.8 0.0 138.4
176 64.6 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN088205.D
Acq: 06 Nov 2025 14:49

Tgt Ion: 117 Resp: 497289
Ion Ratio Lower Upper
117 100
82 61.5 47.4 71.2
119 32.9 24.3 36.5

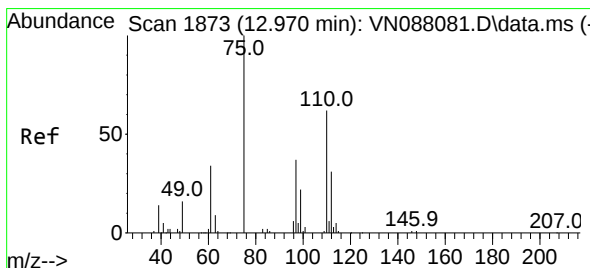
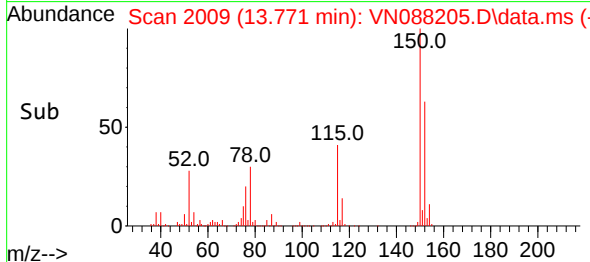
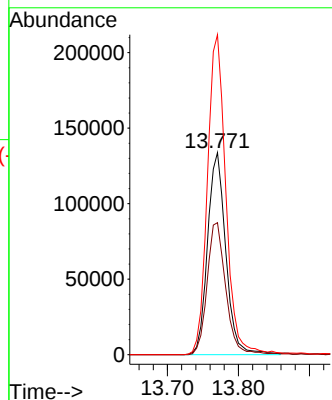
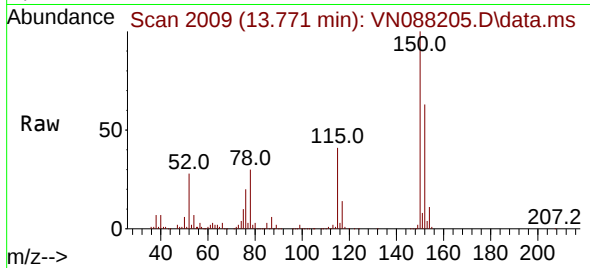




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.771 min Scan# 2009
 Delta R.T. 0.006 min
 Lab File: VN088205.D
 Acq: 06 Nov 2025 14:49

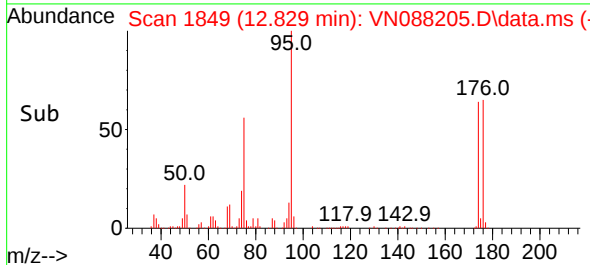
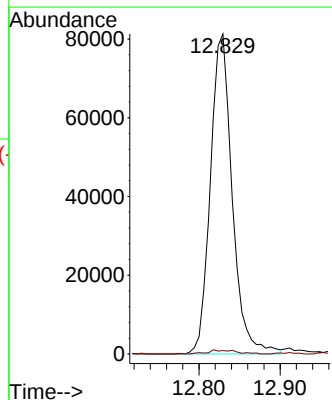
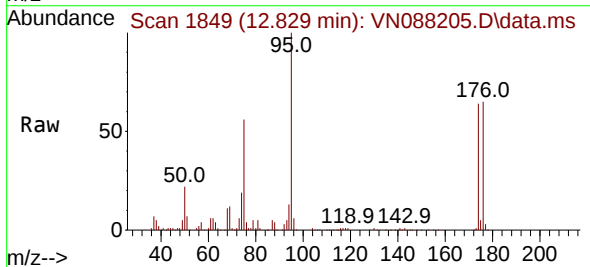
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

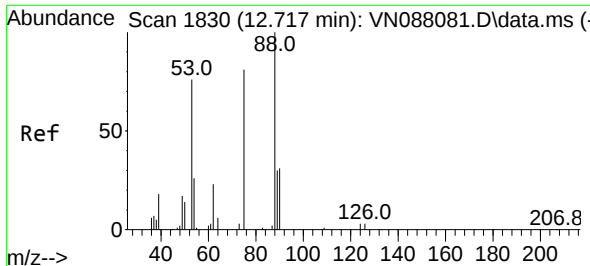
Tgt Ion:152 Resp: 239455
 Ion Ratio Lower Upper
 152 100
 115 66.9 32.3 96.8
 150 159.6 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 27.740 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN088205.D
 Acq: 06 Nov 2025 14:49

Tgt Ion: 75 Resp: 151868
 Ion Ratio Lower Upper
 75 100
 77 1.6 89.1 267.4#

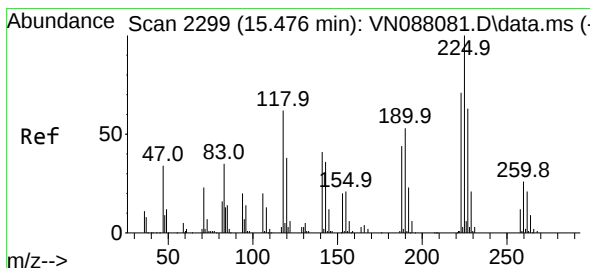
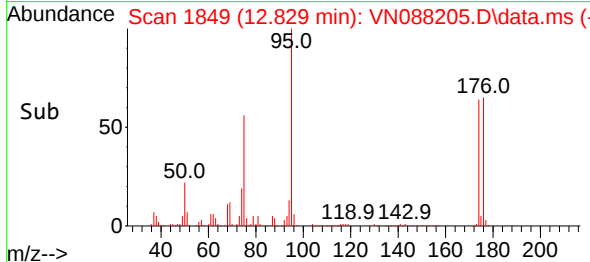
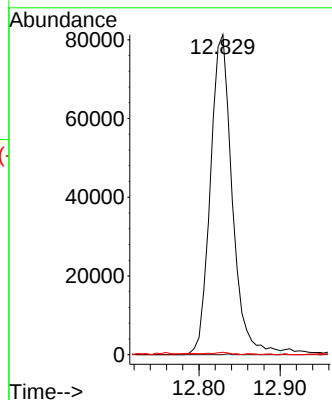
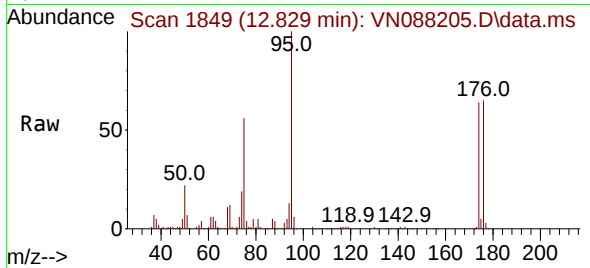




#81
trans-1,4-Dichloro-2-butene
Concen: 77.382 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088205.D
Acq: 06 Nov 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
TP-2

Tgt Ion: 75 Resp: 151868
Ion Ratio Lower Upper
75 100
53 0.1 101.8 152.6#
89 0.6 35.6 53.4#



#94
Hexachlorobutadiene
Concen: 0.230 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. 0.000 min
Lab File: VN088205.D
Acq: 06 Nov 2025 14:49

Tgt Ion: 225 Resp: 397
Ion Ratio Lower Upper
225 100
223 25.2 32.0 96.2#
227 20.4 32.1 96.5#

