

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042825\
 Data File : VN086405.D
 Acq On : 28 Apr 2025 12:44
 Operator : JC\MD
 Sample : PB167744ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167744ZHE#02

Quant Time: Apr 29 01:51:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

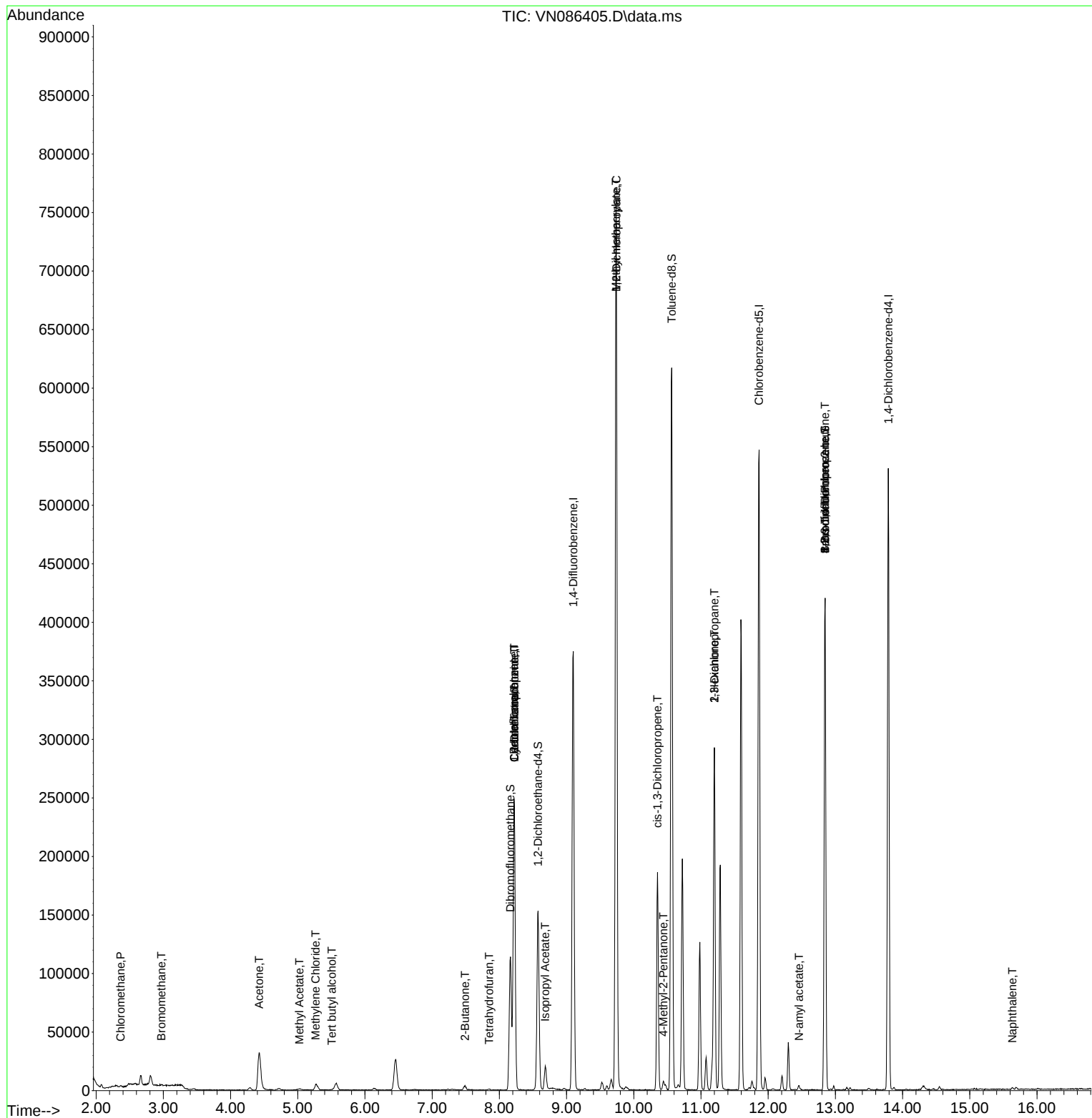
Internal Standards						
1) Pentafluorobenzene	8.218	168	180833	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	341859	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	319771	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	143972	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	127174	48.498	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.000%
35) Dibromofluoromethane	8.165	113	84440	53.220	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	106.440%
50) Toluene-d8	10.565	98	435655	51.377	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.760%
62) 4-Bromofluorobenzene	12.847	95	156440	50.581	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.160%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	876	0.281	ug/l	94
5) Bromomethane	2.971	94	390	0.292	ug/l	94
11) Tert butyl alcohol	5.506	59	383	0.801	ug/l #	72
13) Acrolein	4.183	56	123	Below Cal	#	13
16) Acetone	4.424	43	65178	67.731	ug/l	96
18) Methyl Acetate	5.024	43	2715	0.863	ug/l #	74
20) Methylene Chloride	5.265	84	3929	1.621	ug/l #	85
25) 2-Butanone	7.488	43	6304	3.862	ug/l	98
29) Tetrahydrofuran	7.847	42	685	0.628	ug/l #	53
31) Cyclohexane	8.224	56	4396	1.034	ug/l #	18
36) 1,1-Dichloropropene	8.224	75	15290	4.825	ug/l #	49
38) Carbon Tetrachloride	8.224	117	18486	6.125	ug/l #	16
43) Isopropyl Acetate	8.682	43	24070	2.200	ug/l #	93
45) 1,2-Dichloropropane	9.741	63	875	0.352	ug/l #	43
48) Methyl methacrylate	9.735	41	70098	23.925	ug/l #	42
51) 4-Methyl-2-Pentanone	10.441	43	4955	1.450	ug/l	92
54) cis-1,3-Dichloropropene	10.353	75	35414	8.445	ug/l #	61
57) 1,3-Dichloropropane	11.200	76	3366	0.832	ug/l #	43
59) 2-Hexanone	11.200	43	59797	23.597	ug/l #	43
71) Bromoform	12.847	173	920	0.519	ug/l #	1
74) N-amyl acetate	12.459	43	3713	0.633	ug/l #	43
76) 1,2,3-Trichloropropane	12.847	75	80329	23.643	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	80329	56.783	ug/l #	10
95) Naphthalene	15.635	128	1878	0.233	ug/l #	77

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

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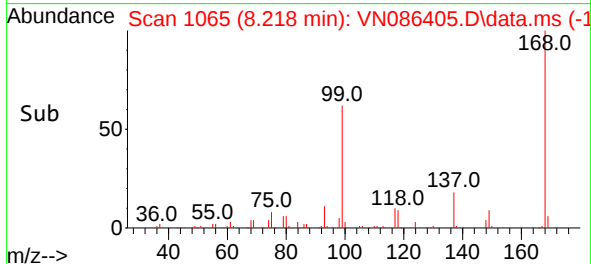
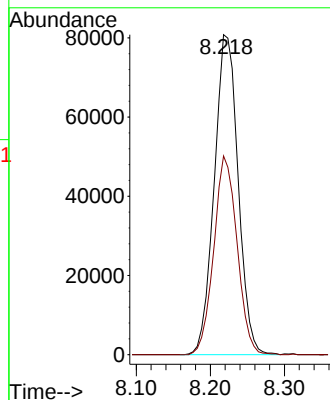
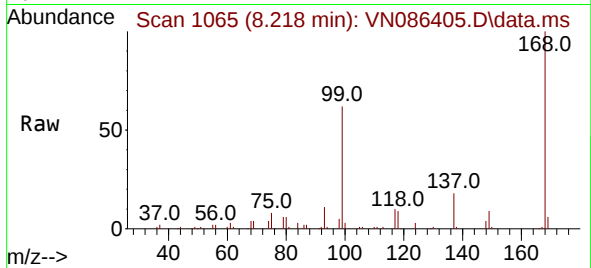




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

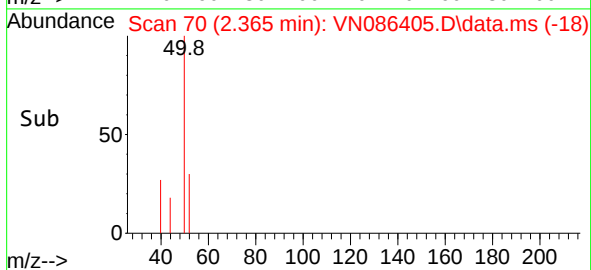
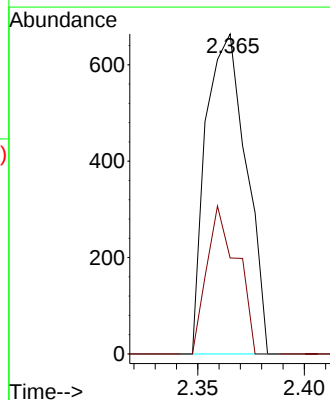
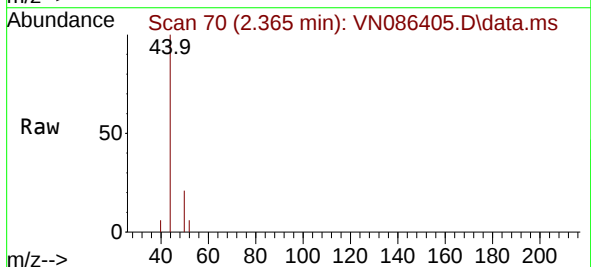
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#02

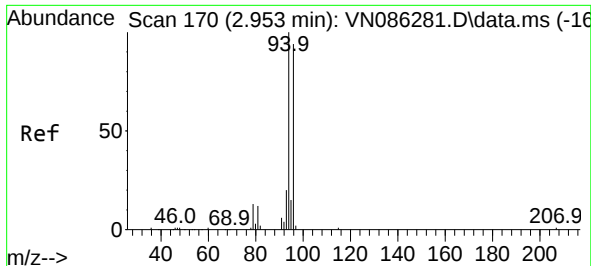
Tgt Ion:168 Resp: 180833
Ion Ratio Lower Upper
168 100
99 62.1 52.5 78.7



#3
Chloromethane
Concen: 0.281 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

Tgt Ion: 50 Resp: 876
Ion Ratio Lower Upper
50 100
52 30.0 26.5 39.7

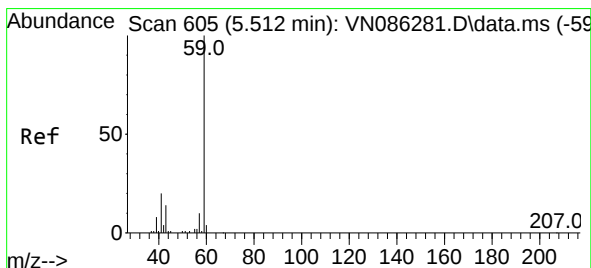
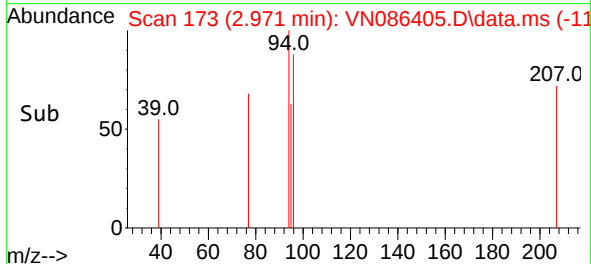
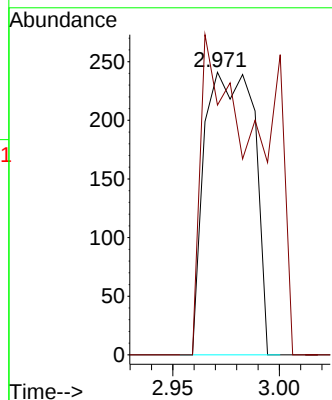
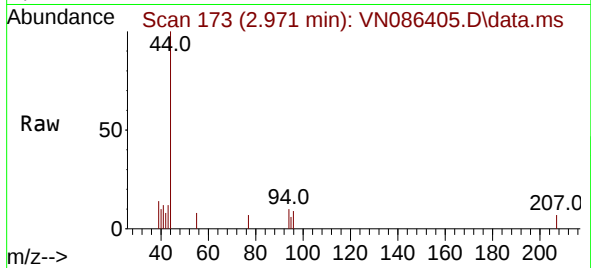




#5
Bromomethane
Concen: 0.292 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

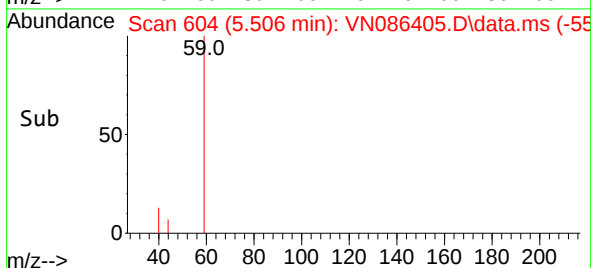
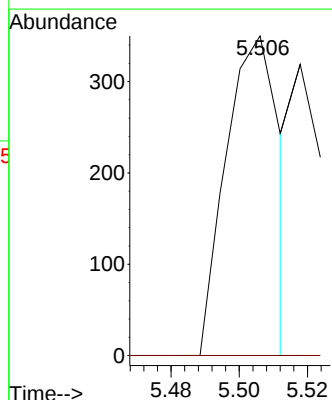
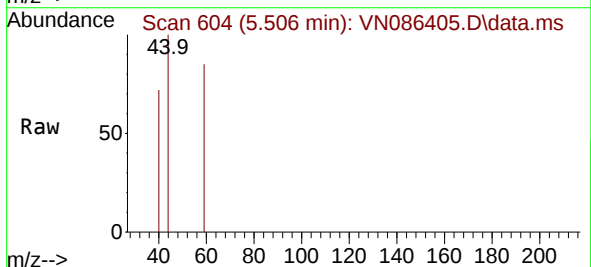
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#02

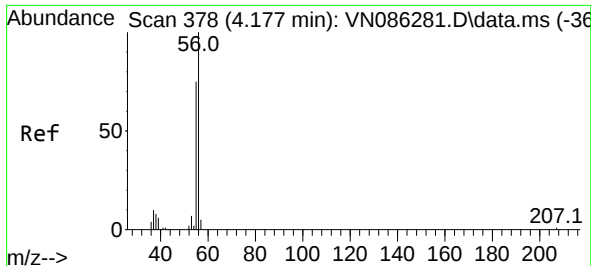
Tgt Ion: 94 Resp: 390
Ion Ratio Lower Upper
94 100
96 88.4 75.2 112.8



#11
Tert butyl alcohol
Concen: 0.801 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.006 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

Tgt Ion: 59 Resp: 383
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

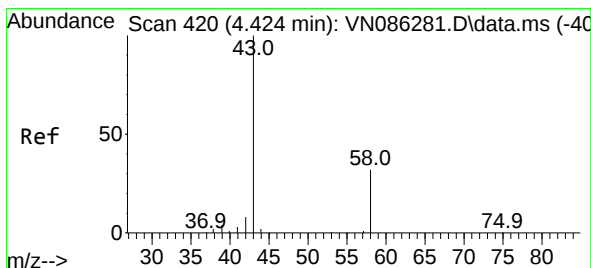
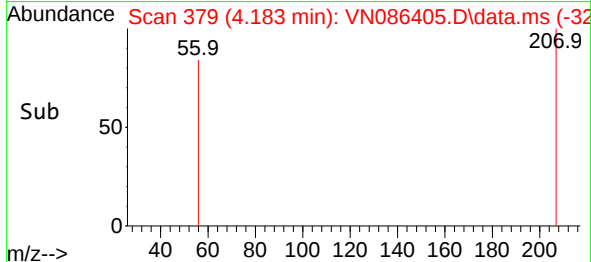
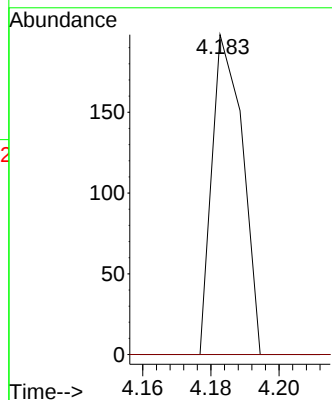
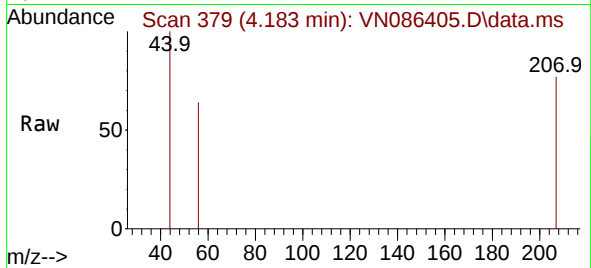




#13
Acrolein
Concen: Below Cal
RT: 4.183 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

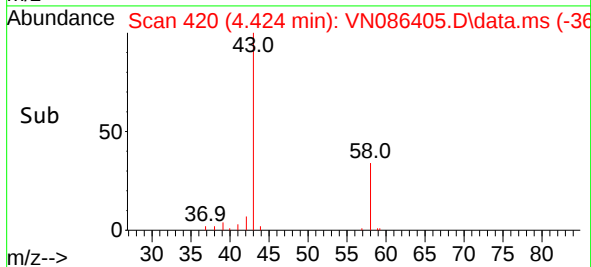
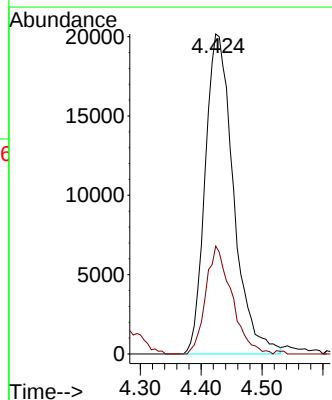
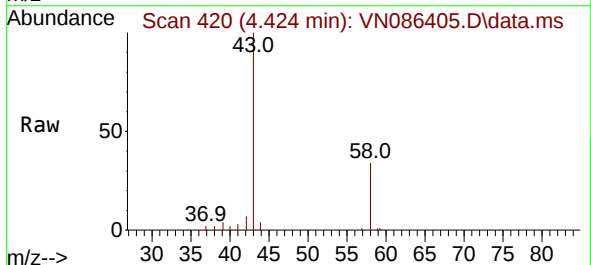
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#02

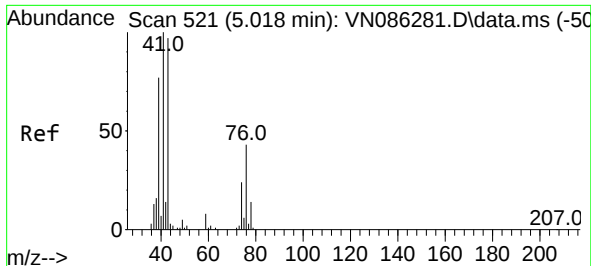
Tgt Ion: 56 Resp: 123
Ion Ratio Lower Upper
56 100
55 0.0 58.5 87.7#



#16
Acetone
Concen: 67.731 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

Tgt Ion: 43 Resp: 65178
Ion Ratio Lower Upper
43 100
58 33.7 25.3 37.9

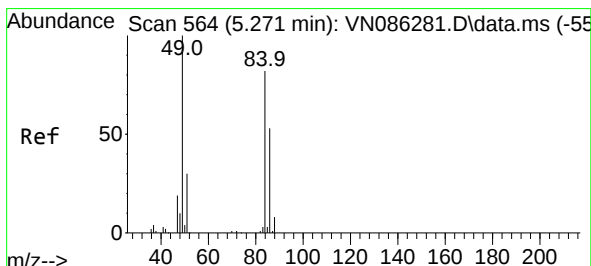
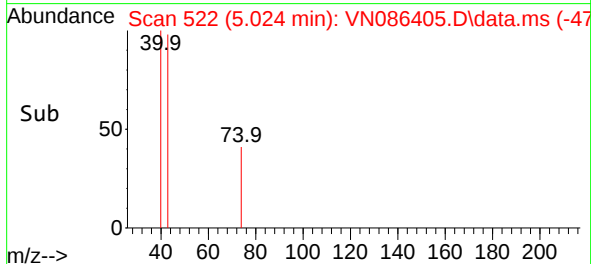
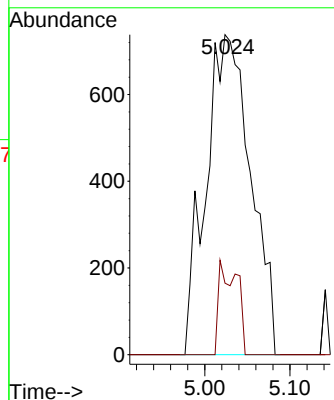
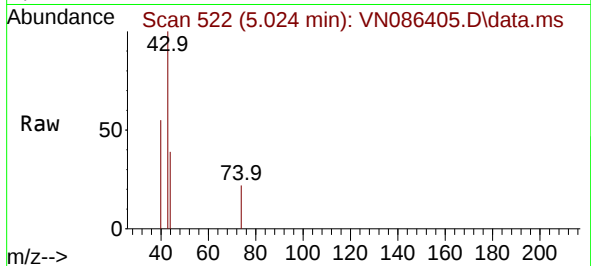




#18
Methyl Acetate
Concen: 0.863 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

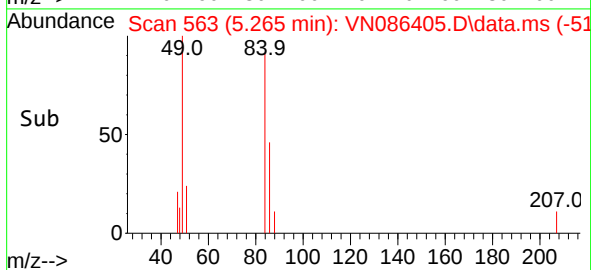
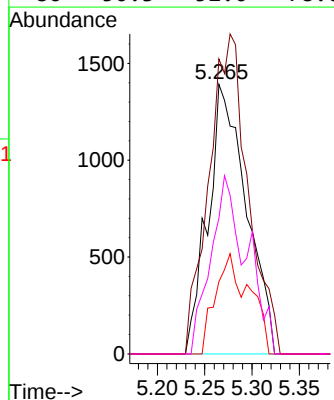
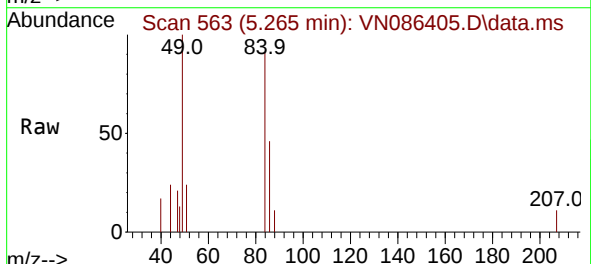
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#02

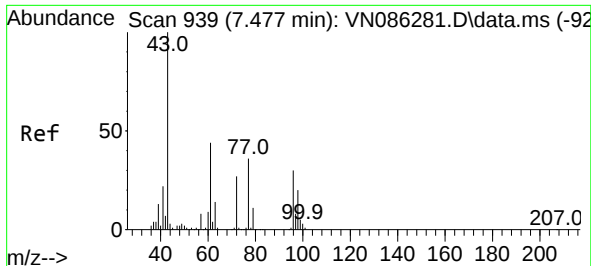
Tgt Ion: 43 Resp: 2715
Ion Ratio Lower Upper
43 100
74 11.8 19.8 29.6#



#20
Methylene Chloride
Concen: 1.621 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.006 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

Tgt Ion: 84 Resp: 3929
Ion Ratio Lower Upper
84 100
49 109.4 98.2 147.2
51 26.8 29.8 44.6#
86 50.3 52.0 78.0#

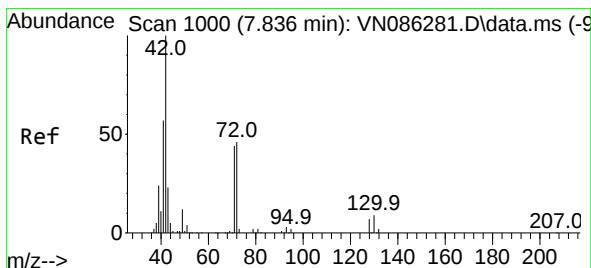
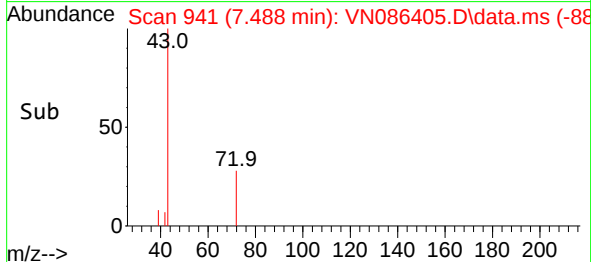
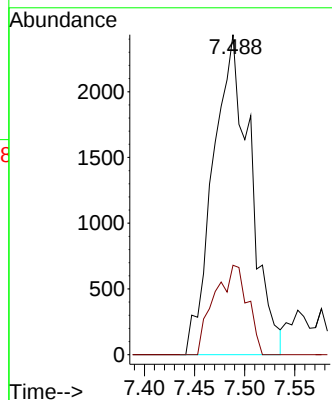
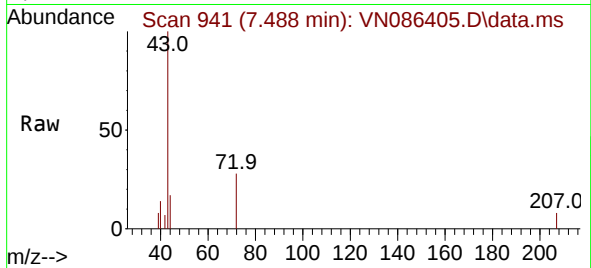




#25
2-Butanone
Concen: 3.862 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

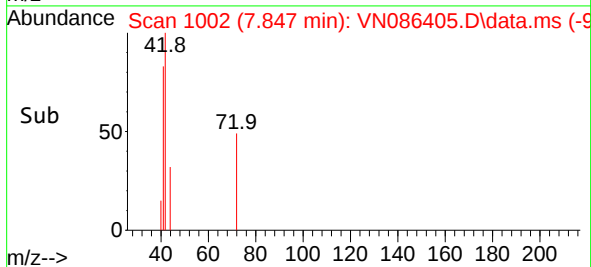
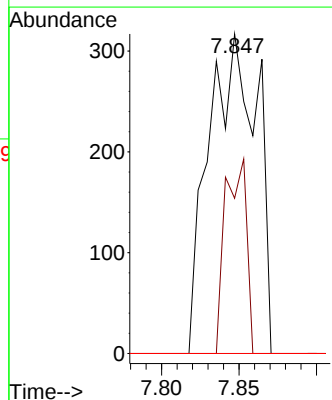
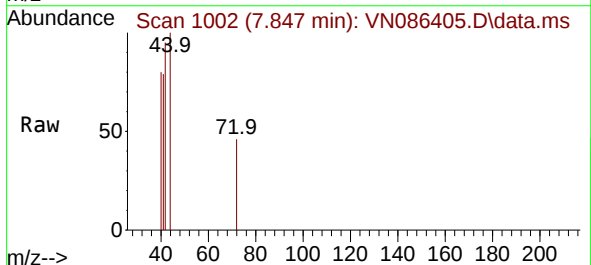
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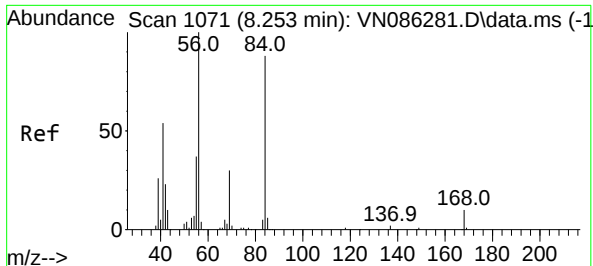
Tgt Ion: 43 Resp: 6304
Ion Ratio Lower Upper
43 100
72 27.9 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.628 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

Tgt Ion: 42 Resp: 685
Ion Ratio Lower Upper
42 100
72 26.9 36.2 54.4#
71 0.0 34.0 51.0#

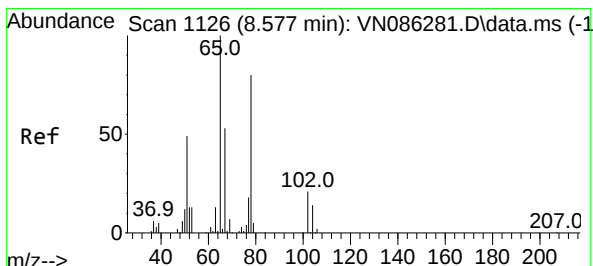
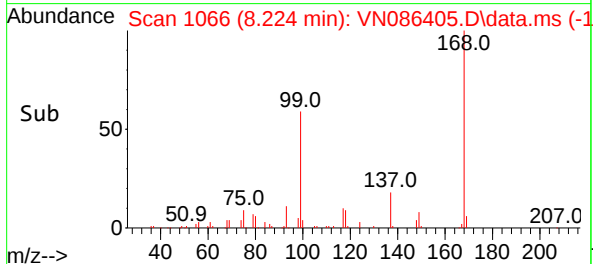
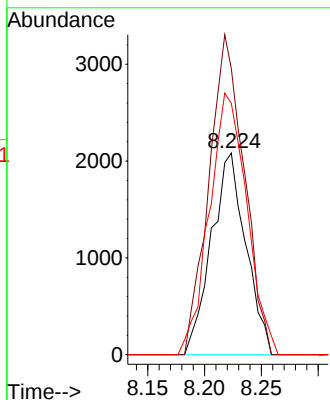
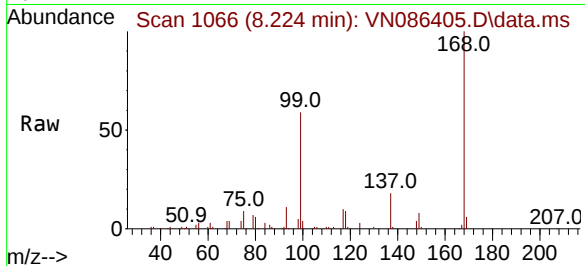




#31
Cyclohexane
Concen: 1.034 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

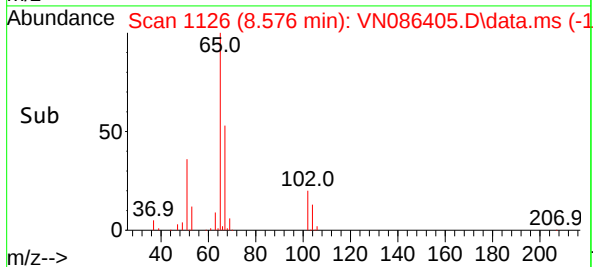
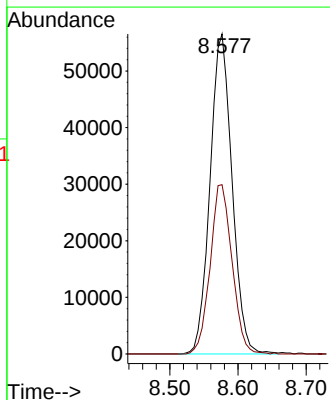
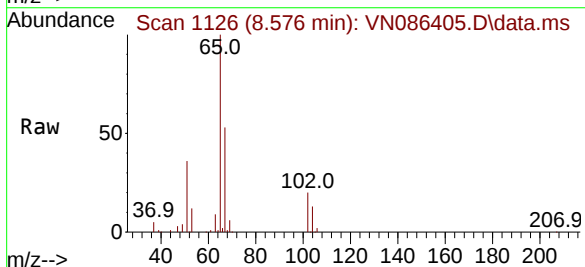
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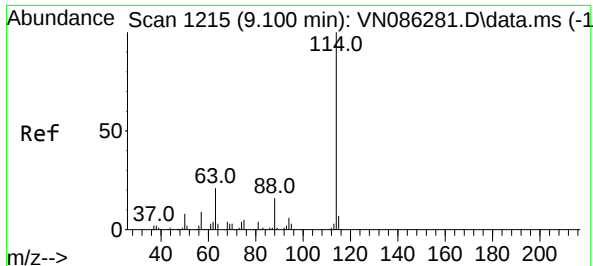
Tgt Ion: 56 Resp: 4396
Ion Ratio Lower Upper
56 100
69 141.9 24.2 36.2#
84 124.7 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 48.498 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

Tgt Ion: 65 Resp: 127174
Ion Ratio Lower Upper
65 100
67 52.6 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086405.D

Acq: 28 Apr 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

PB167744ZHE#02

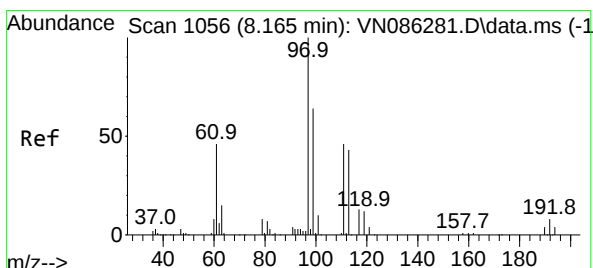
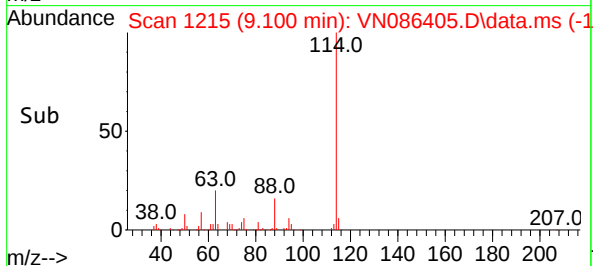
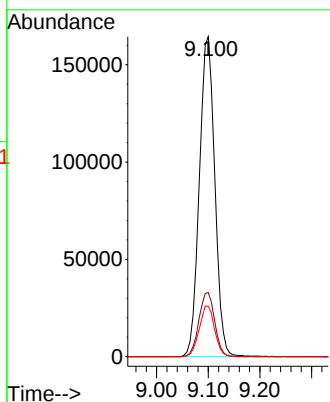
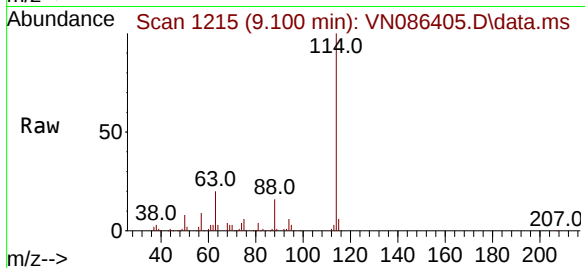
Tgt Ion:114 Resp: 341859

Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.6

88 15.8 0.0 31.8



#35

Dibromofluoromethane

Concen: 53.220 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086405.D

Acq: 28 Apr 2025 12:44

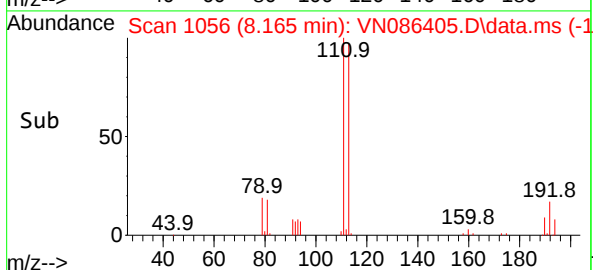
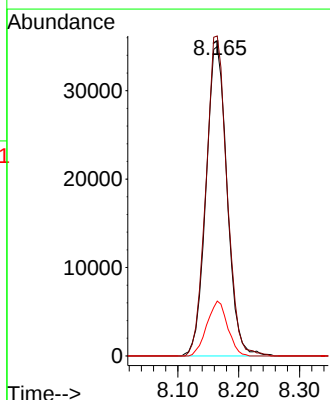
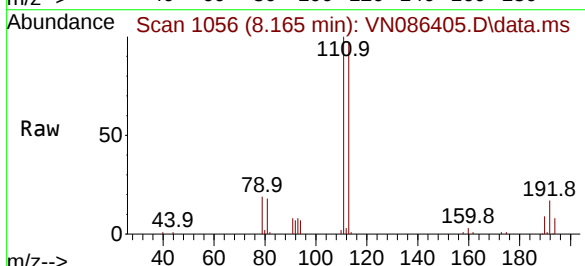
Tgt Ion:113 Resp: 84440

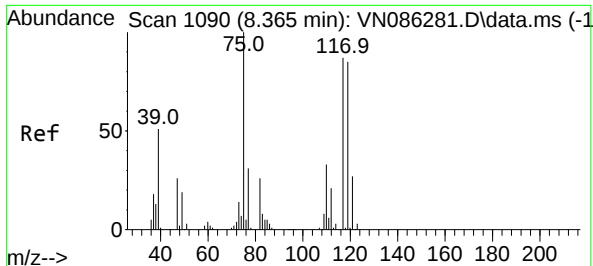
Ion Ratio Lower Upper

113 100

111 102.7 83.4 125.0

192 17.4 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.825 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086405.D

Acq: 28 Apr 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

PB167744ZHE#02

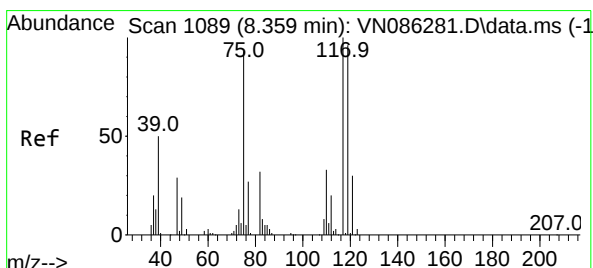
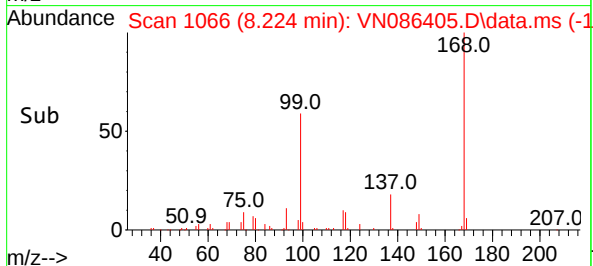
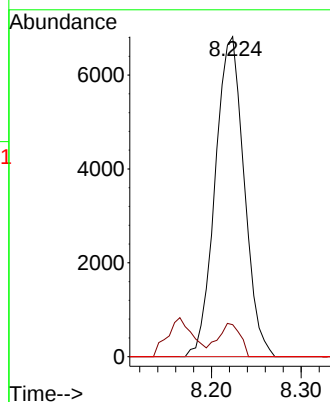
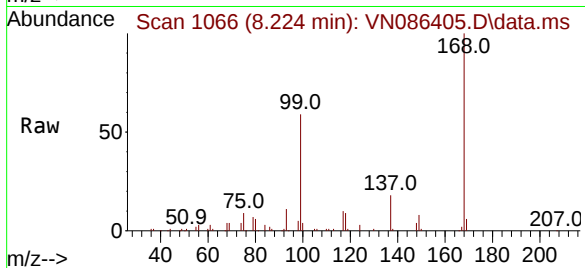
Tgt Ion: 75 Resp: 15290

Ion Ratio Lower Upper

75 100

110 8.0 16.8 50.4#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 6.125 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086405.D

Acq: 28 Apr 2025 12:44

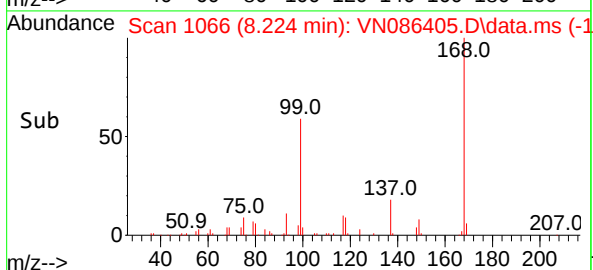
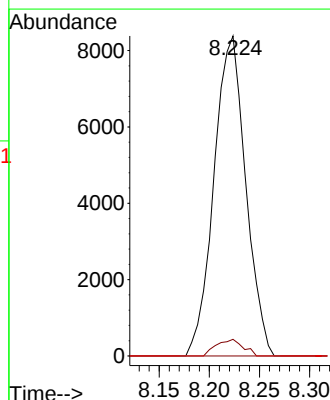
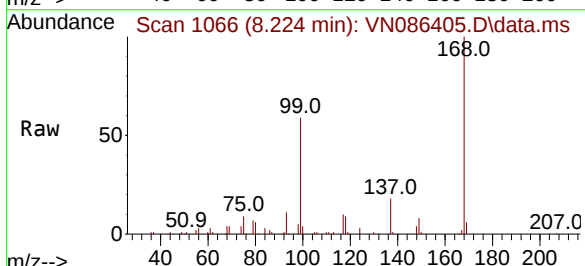
Tgt Ion: 117 Resp: 18486

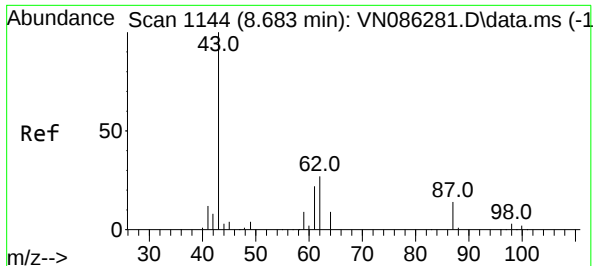
Ion Ratio Lower Upper

117 100

119 5.2 76.8 115.2#

121 0.0 23.8 35.8#

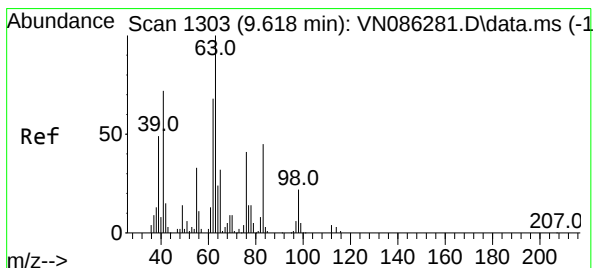
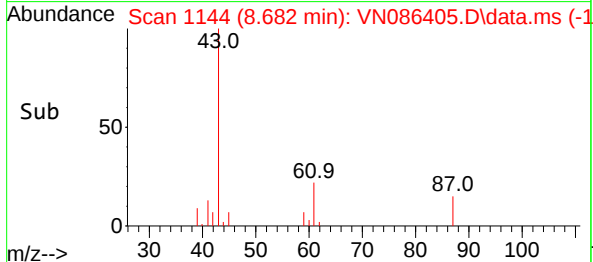
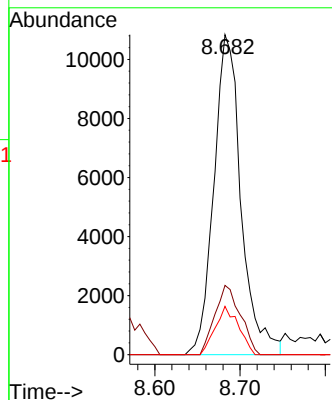
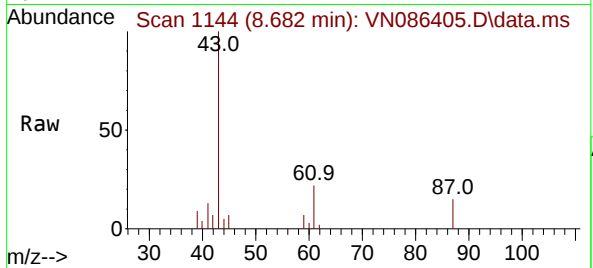




#43
Isopropyl Acetate
Concen: 2.200 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.001 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

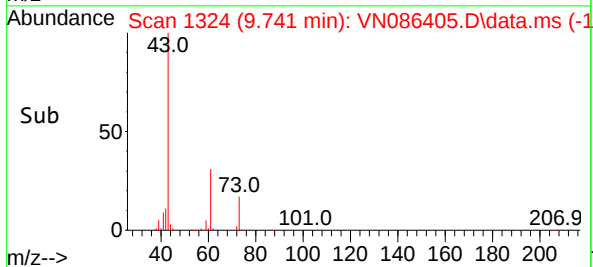
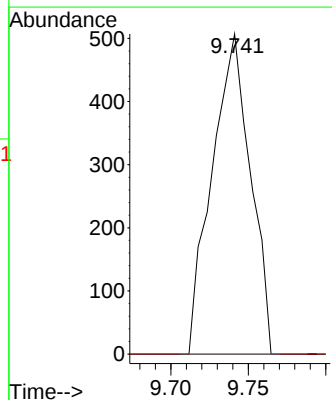
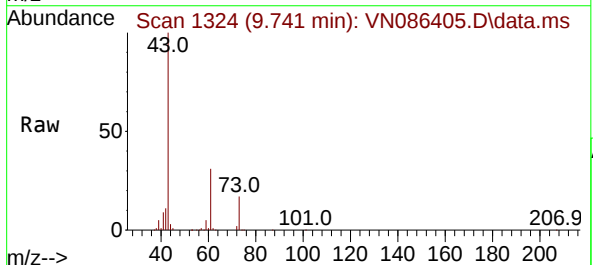
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#02

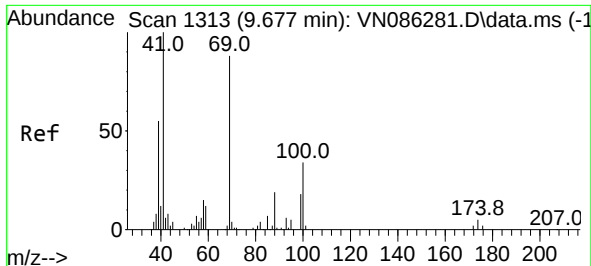
Tgt Ion: 43 Resp: 24070
Ion Ratio Lower Upper
43 100
61 20.3 20.5 30.7#
87 12.9 10.5 15.7



#45
1,2-Dichloropropane
Concen: 0.352 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

Tgt Ion: 63 Resp: 875
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

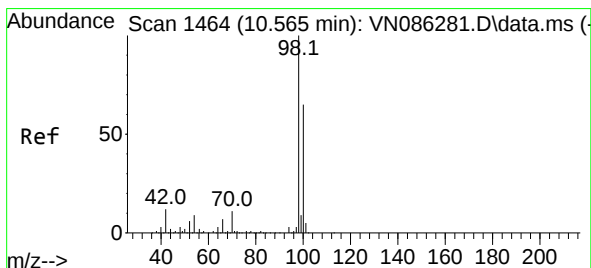
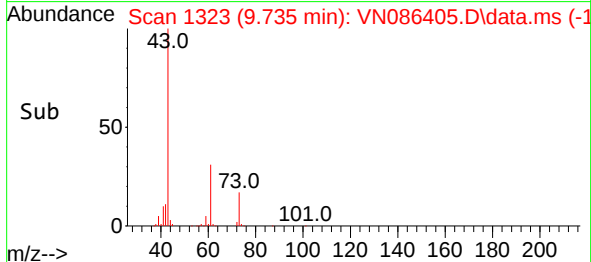
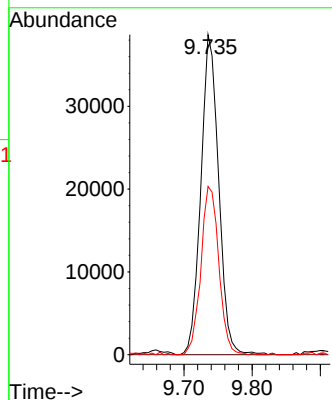
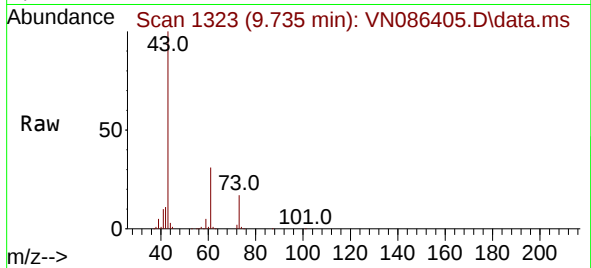




#48
Methyl methacrylate
Concen: 23.925 ug/l
RT: 9.735 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

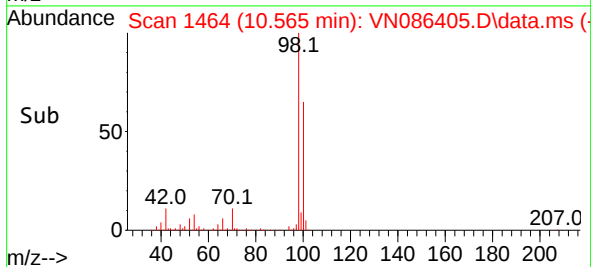
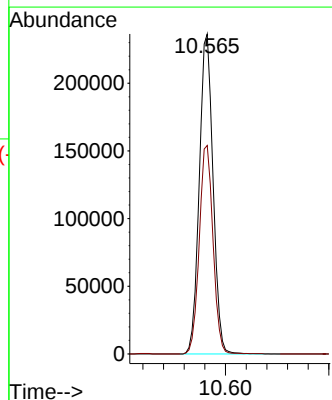
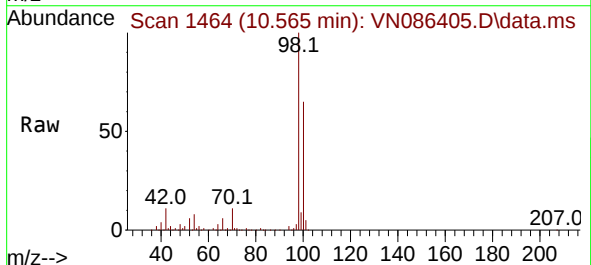
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#02

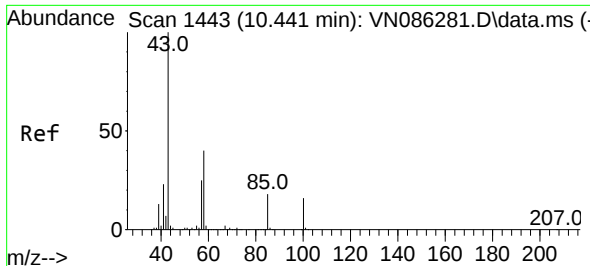
Tgt Ion: 41 Resp: 70098
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 53.1 45.2 67.8



#50
Toluene-d8
Concen: 51.377 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

Tgt Ion: 98 Resp: 435655
Ion Ratio Lower Upper
98 100
100 65.2 52.5 78.7

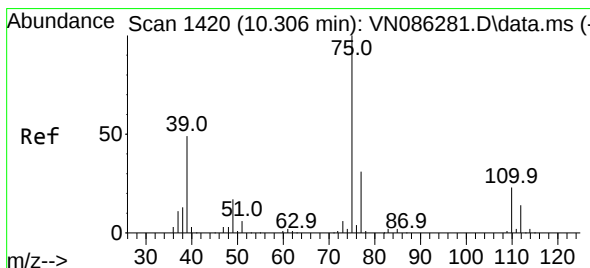
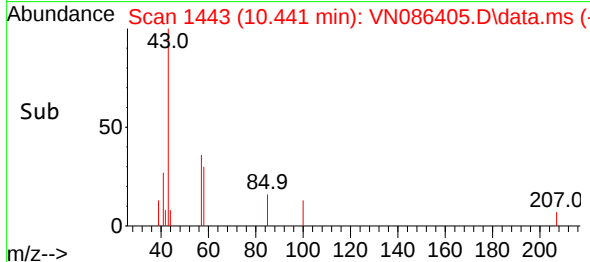
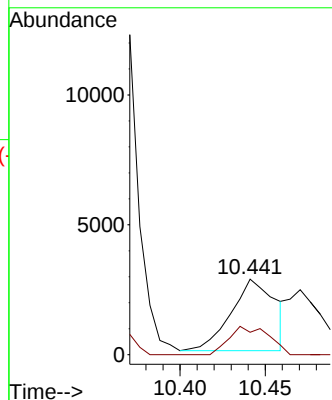
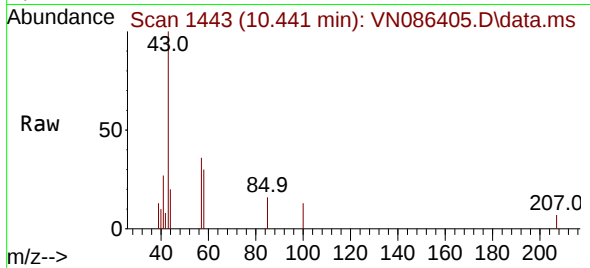




#51
4-Methyl-2-Pentanone
Concen: 1.450 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

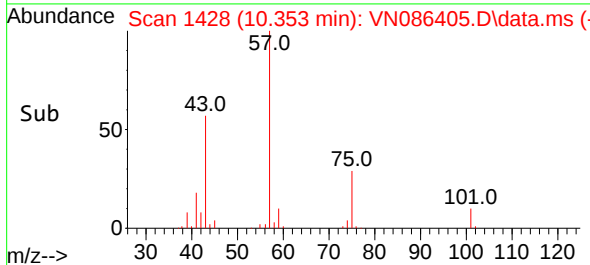
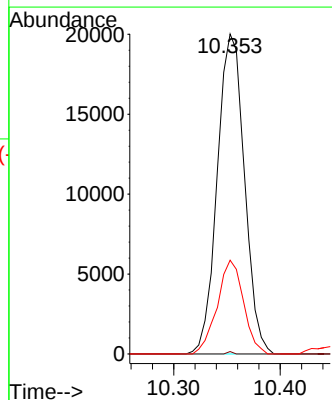
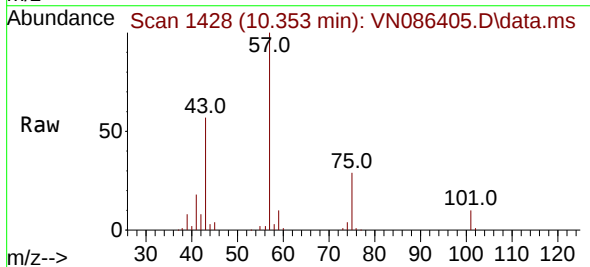
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#02

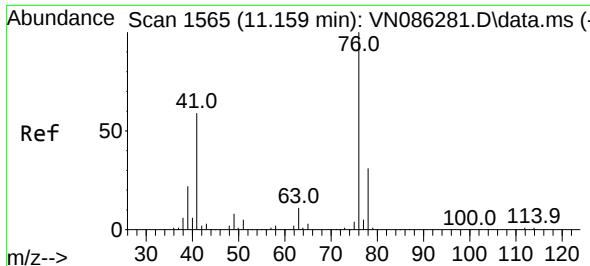
Tgt Ion: 43 Resp: 4955
Ion Ratio Lower Upper
43 100
58 35.6 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 8.445 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

Tgt Ion: 75 Resp: 35414
Ion Ratio Lower Upper
75 100
77 0.8 25.2 37.8#
39 29.3 39.3 58.9#

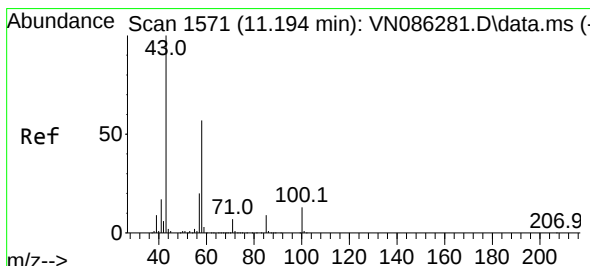
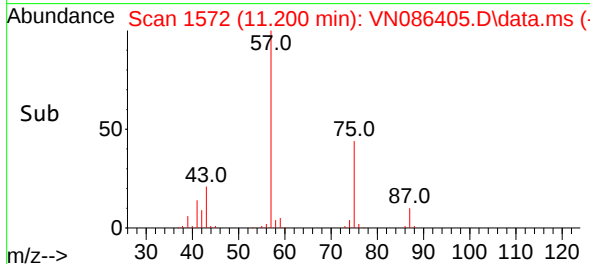
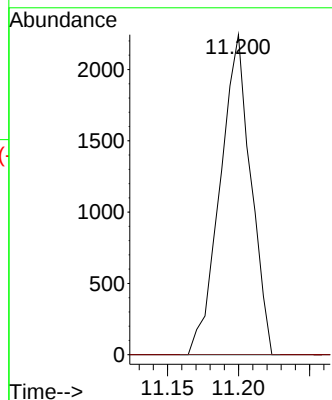
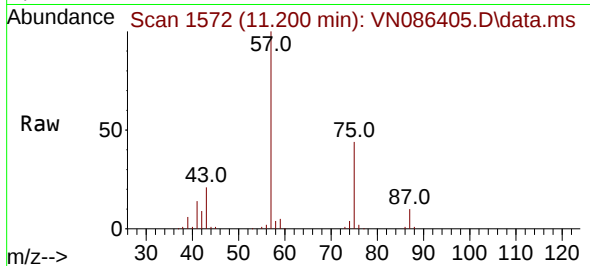




#57
1,3-Dichloropropane
Concen: 0.832 ug/l
RT: 11.200 min Scan# 1565
Delta R.T. 0.041 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

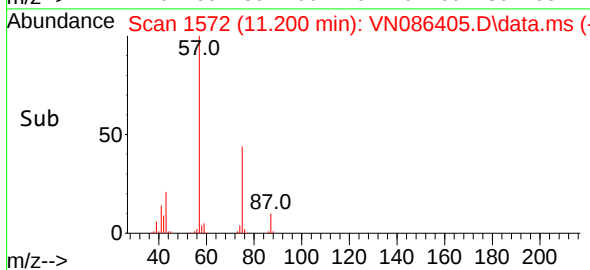
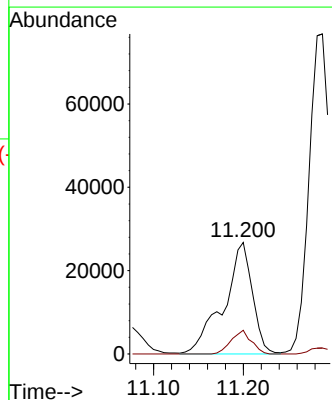
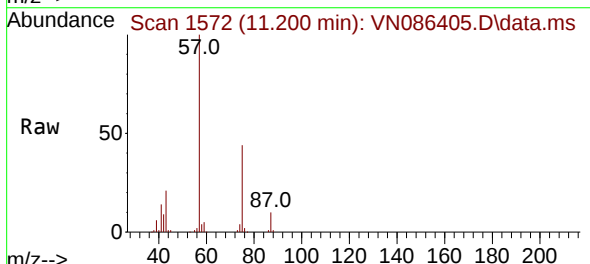
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#02

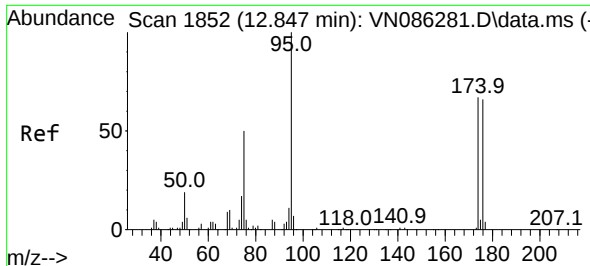
Tgt Ion: 76 Resp: 3366
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#



#59
2-Hexanone
Concen: 23.597 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

Tgt Ion: 43 Resp: 59797
Ion Ratio Lower Upper
43 100
58 14.8 28.3 85.0#

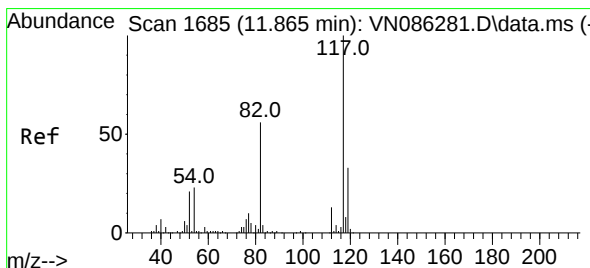
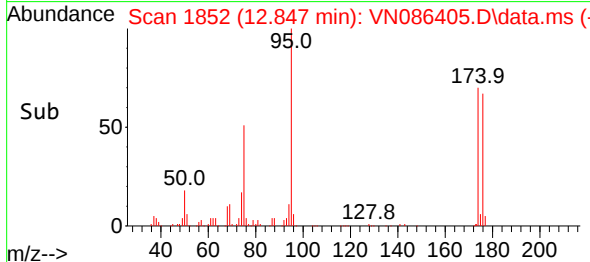
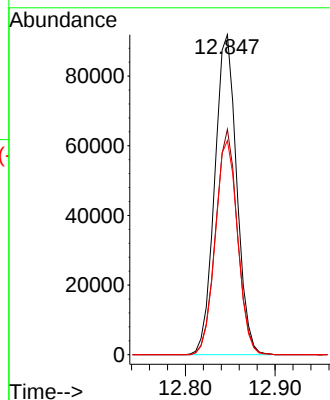
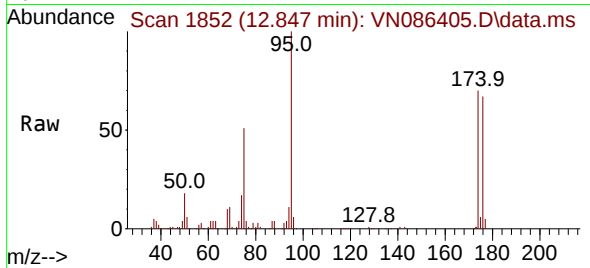




#62
4-Bromofluorobenzene
Concen: 50.581 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

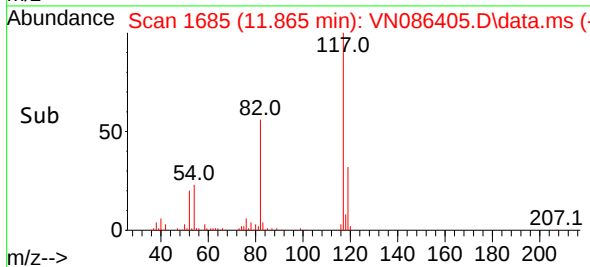
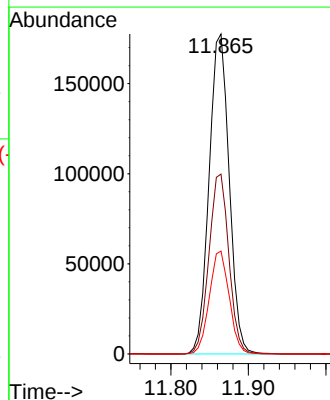
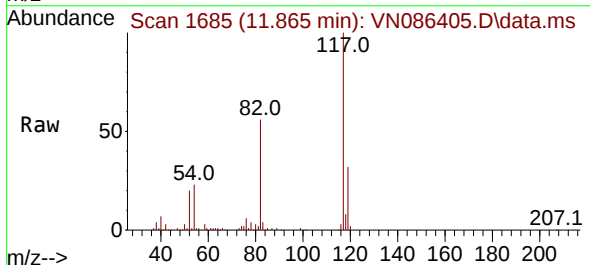
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#02

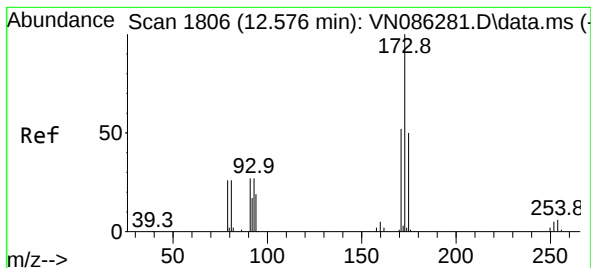
Tgt Ion: 95 Resp: 156440
Ion Ratio Lower Upper
95 100
174 69.7 0.0 133.4
176 68.0 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

Tgt Ion: 117 Resp: 319771
Ion Ratio Lower Upper
117 100
82 56.2 44.7 67.1
119 32.1 26.4 39.6





#71

Bromoform

Concen: 0.519 ug/l

RT: 12.847 min Scan# 1806

Delta R.T. 0.270 min

Lab File: VN086405.D

Acq: 28 Apr 2025 12:44

Instrument :

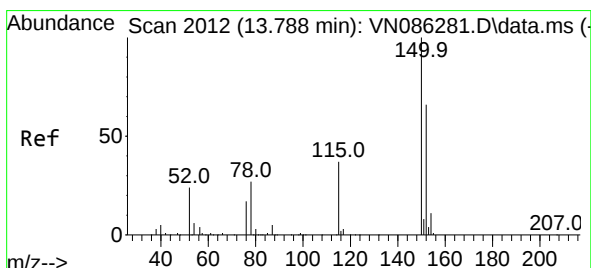
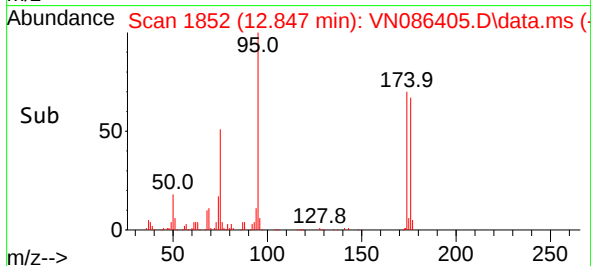
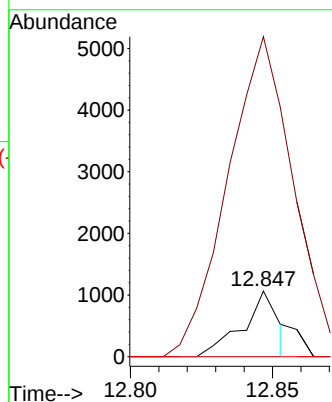
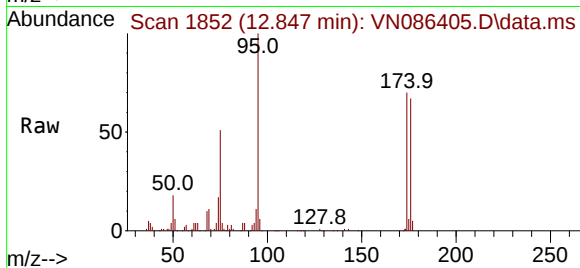
MSVOA_N

ClientSampleId :

PB167744ZHE#02

Tgt Ion:173 Resp: 920

Ion	Ratio	Lower	Upper
173	100		
175	740.7	24.6	73.6#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 1212

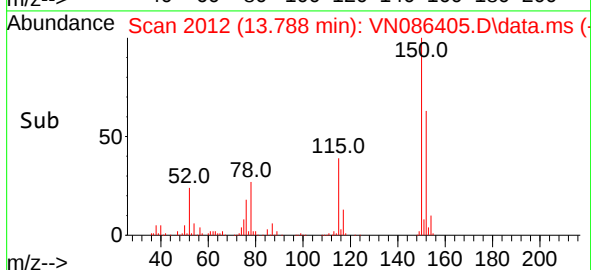
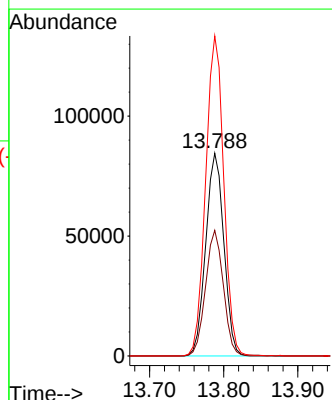
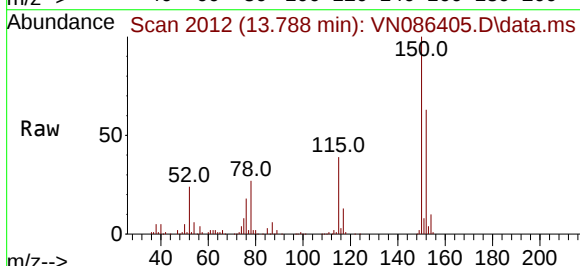
Delta R.T. -0.000 min

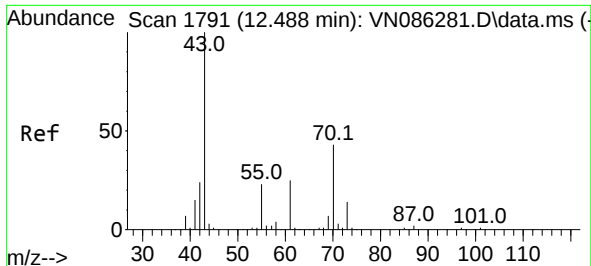
Lab File: VN086405.D

Acq: 28 Apr 2025 12:44

Tgt Ion:152 Resp: 143972

Ion	Ratio	Lower	Upper
152	100		
115	60.7	31.9	95.9
150	156.8	0.0	352.0

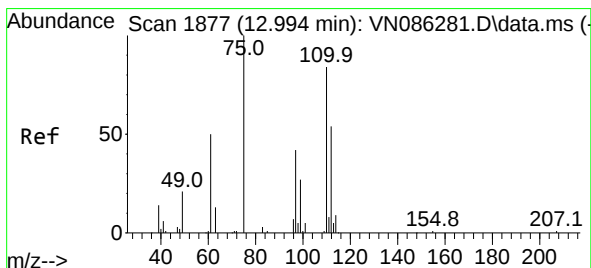
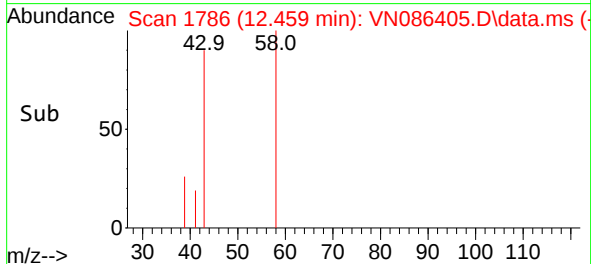
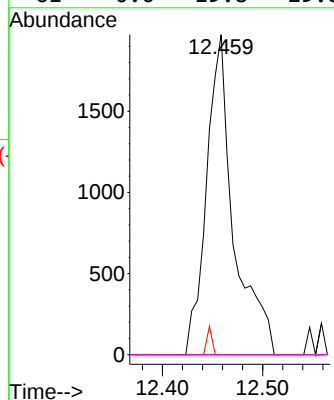
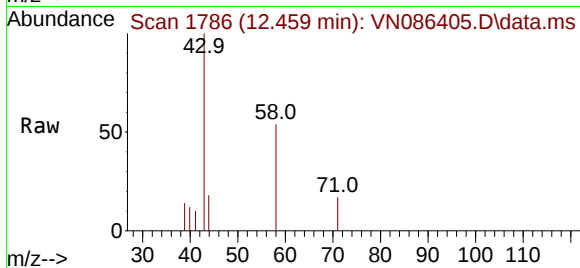




#74
N-amy1 acetate
Concen: 0.633 ug/l
RT: 12.459 min Scan# 1786
Delta R.T. -0.030 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

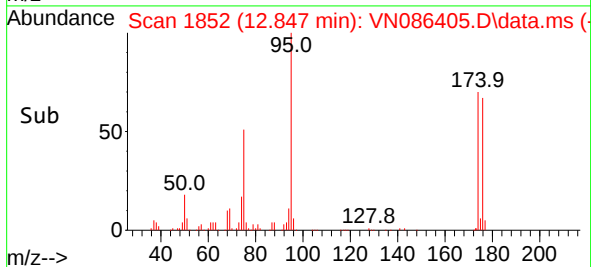
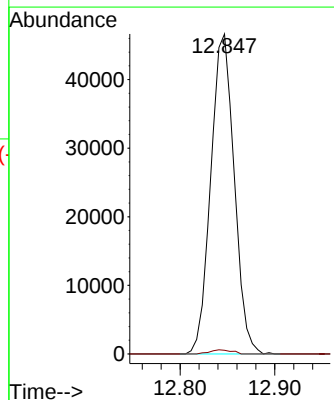
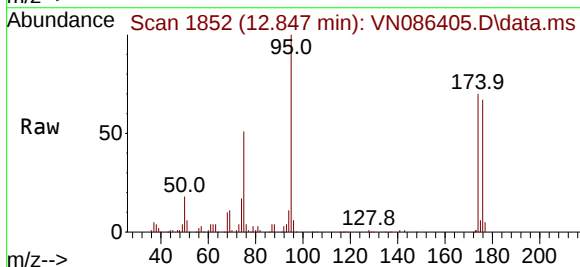
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#02

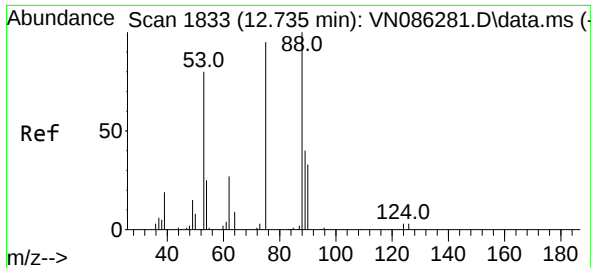
Tgt Ion:	43	Resp:	3713
Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.0	52.4#
55	1.7	19.0	28.4#
61	0.0	19.8	29.8#



#76
1,2,3-Trichloropropane
Concen: 23.643 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

Tgt Ion:	75	Resp:	80329
Ion	Ratio	Lower	Upper
75	100		
77	1.2	98.8	296.4#

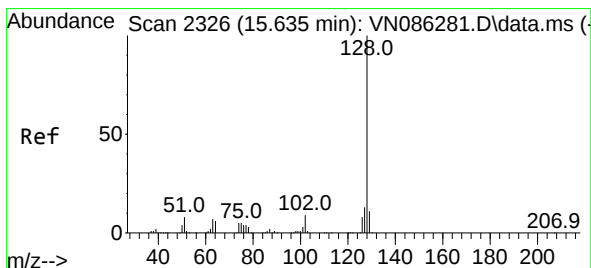
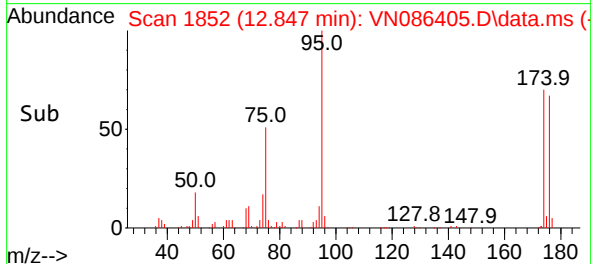
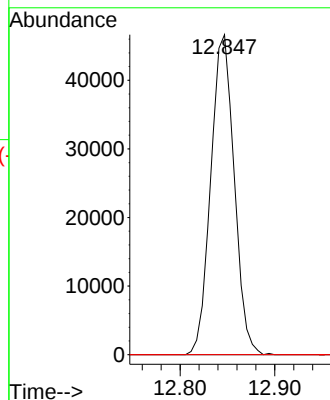
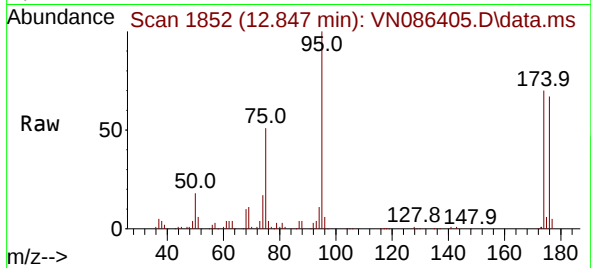




#81
trans-1,4-Dichloro-2-butene
Concen: 56.783 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#02

Tgt Ion: 75 Resp: 80329
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#



#95
Naphthalene
Concen: 0.233 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086405.D
Acq: 28 Apr 2025 12:44

Tgt Ion:128 Resp: 1878
Ion Ratio Lower Upper
128 100
127 3.2 10.2 15.4#
129 2.9 8.6 13.0#

