

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020725\
 Data File : VN085701.D
 Acq On : 07 Feb 2025 17:05
 Operator : JC\MD
 Sample : PB166592ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 07 22:33:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

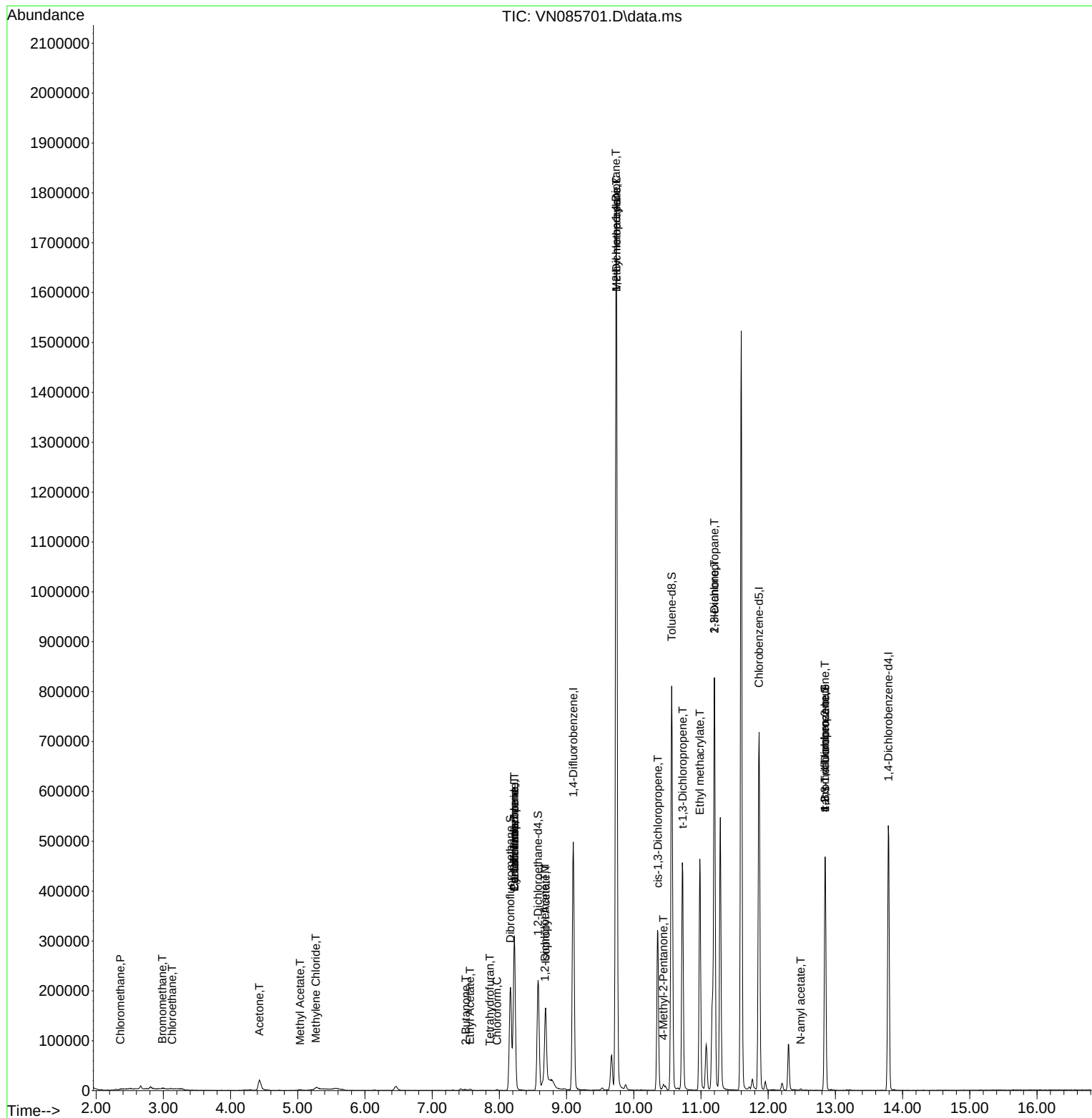
Internal Standards						
1) Pentafluorobenzene	8.224	168	211455	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	421252	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	405445	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	144033	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	183716	53.823	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 107.640%	
35) Dibromofluoromethane	8.165	113	148472	50.804	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.600%	
50) Toluene-d8	10.565	98	559099	53.845	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 107.700%	
62) 4-Bromofluorobenzene	12.847	95	158547	44.637	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 89.280%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	752	0.243	ug/l	94
5) Bromomethane	2.983	94	590	0.313	ug/l #	58
6) Chloroethane	3.130	64	416	0.211	ug/l #	44
16) Acetone	4.430	43	39016	35.377	ug/l	94
18) Methyl Acetate	5.036	43	3371	1.005	ug/l #	55
20) Methylene Chloride	5.271	84	3121	1.143	ug/l #	84
25) 2-Butanone	7.500	43	3728	2.297	ug/l #	76
29) Tetrahydrofuran	7.859	42	237	0.230	ug/l #	34
30) Chloroform	7.965	83	1373	0.267	ug/l	96
31) Cyclohexane	8.224	56	5480	1.265	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	19056	4.646	ug/l #	50
37) Ethyl Acetate	7.565	43	4021	0.971	ug/l #	82
38) Carbon Tetrachloride	8.224	117	23559	5.017	ug/l #	16
42) 1,2-Dichloroethane	8.677	62	1348	0.290	ug/l #	76
43) Isopropyl Acetate	8.688	43	197014	29.699	ug/l #	87
45) 1,2-Dichloropropane	9.741	63	2332	0.741	ug/l #	43
48) Methyl methacrylate	9.741	41	162673	54.491	ug/l #	45
49) 1,4-Dioxane	9.735	88	210	4.177	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	12855	3.339	ug/l #	75
53) t-1,3-Dichloropropene	10.729	75	1174	0.268	ug/l #	82
54) cis-1,3-Dichloropropene	10.359	75	56790	12.157	ug/l #	63
56) Ethyl methacrylate	10.982	69	2667	2.470	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	9071	1.846	ug/l #	43
59) 2-Hexanone	11.200	43	95646	35.312	ug/l #	61
74) N-amyl acetate	12.482	43	1489	0.341	ug/l #	46
76) 1,2,3-Trichloropropane	12.847	75	84284	28.790	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	84284	77.894	ug/l #	3

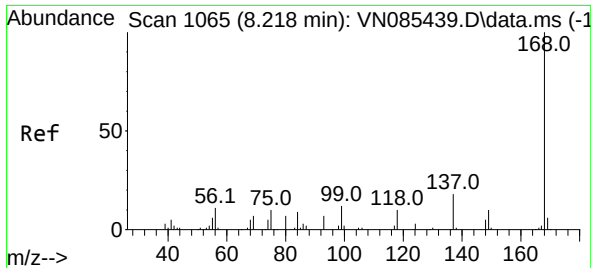
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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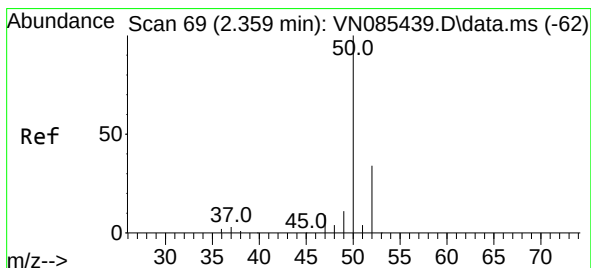
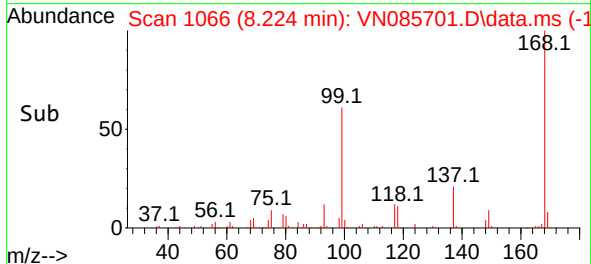
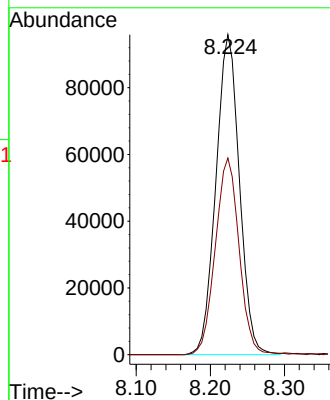
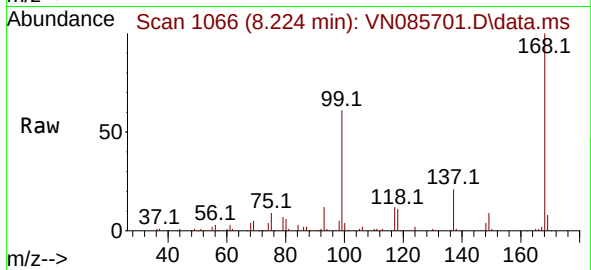




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

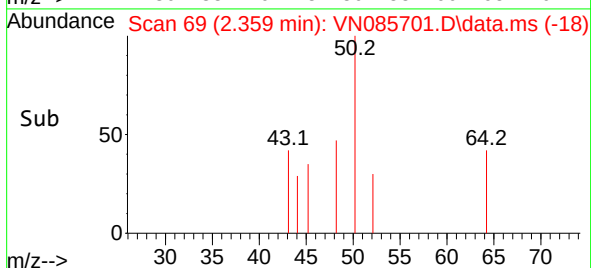
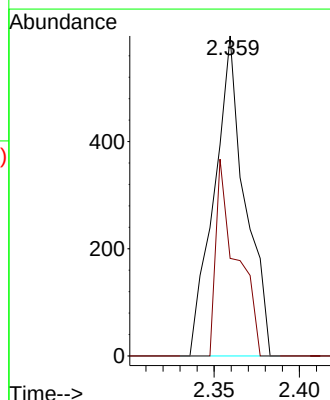
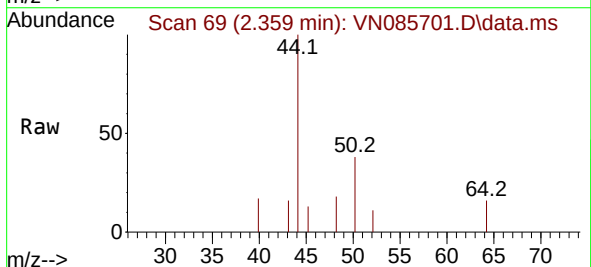
Instrument :
MSVOA_N
ClientSampleId :

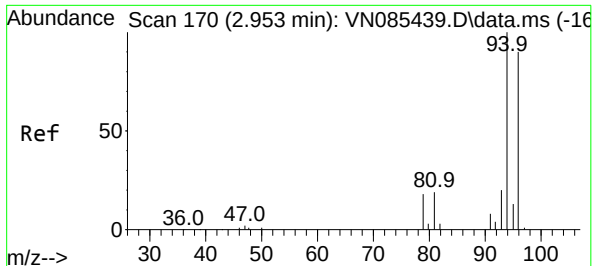
Tgt Ion:168 Resp: 211455
Ion Ratio Lower Upper
168 100
99 61.5 53.6 80.4



#3
Chloromethane
Concen: 0.243 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

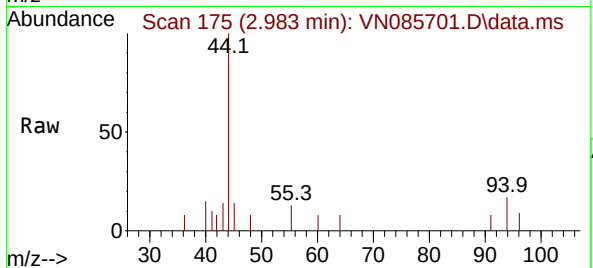
Tgt Ion: 50 Resp: 752
Ion Ratio Lower Upper
50 100
52 30.5 27.0 40.6



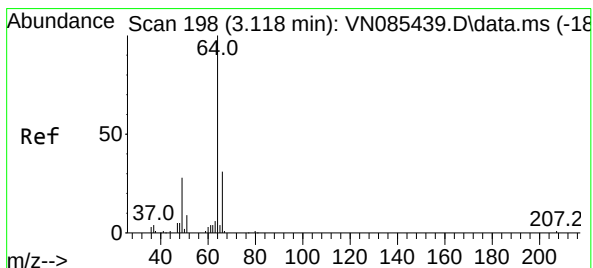
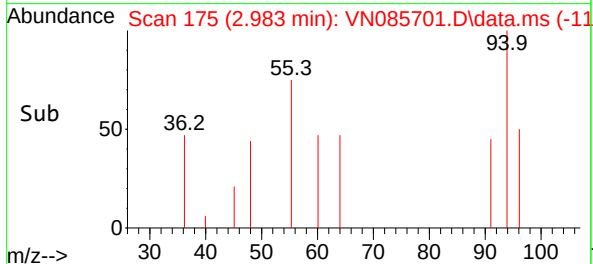
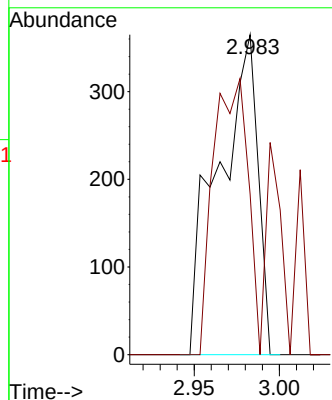


#5
Bromomethane
Concen: 0.313 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

Instrument :
MSVOA_N
ClientSampleId :

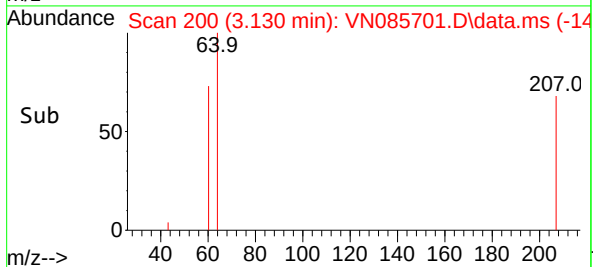
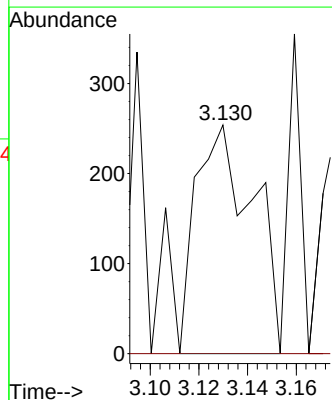
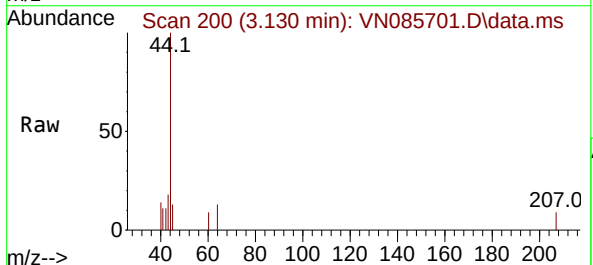


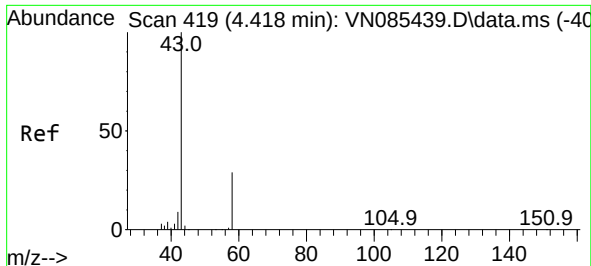
Tgt Ion: 94 Resp: 590
Ion Ratio Lower Upper
94 100
96 50.1 71.8 107.6#



#6
Chloroethane
Concen: 0.211 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

Tgt Ion: 64 Resp: 416
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#

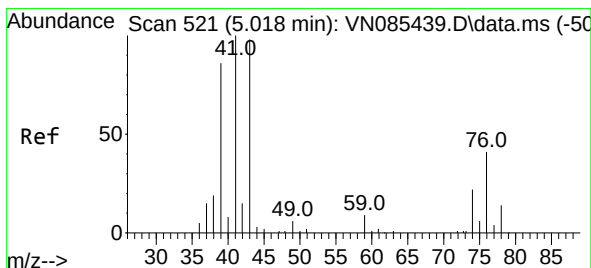
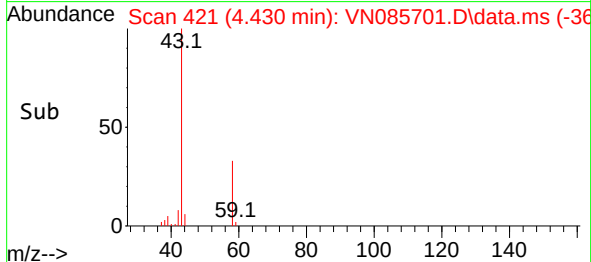
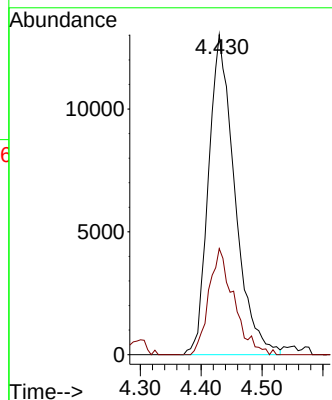
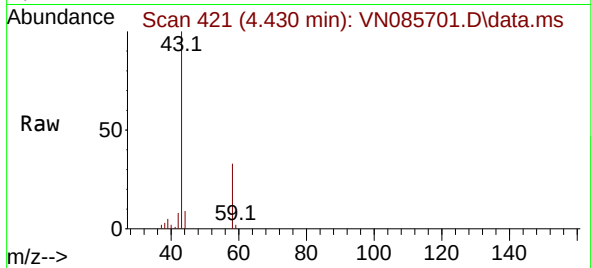




#16
Acetone
Concen: 35.377 ug/l
RT: 4.430 min Scan# 419
Delta R.T. 0.012 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

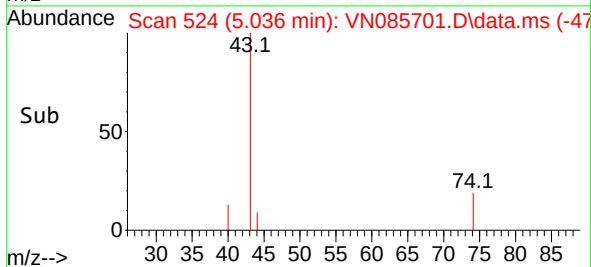
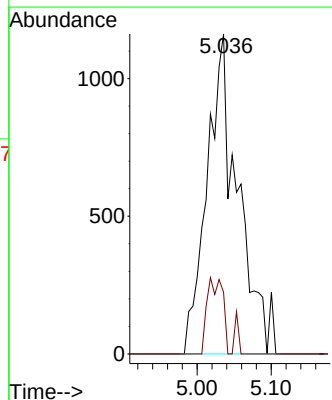
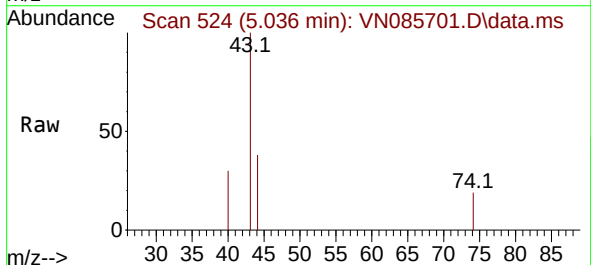
Instrument :
MSVOA_N
ClientSampleId :

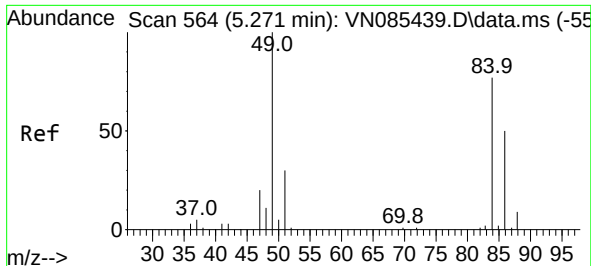
Tgt Ion: 43 Resp: 39016
Ion Ratio Lower Upper
43 100
58 33.2 23.8 35.6



#18
Methyl Acetate
Concen: 1.005 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

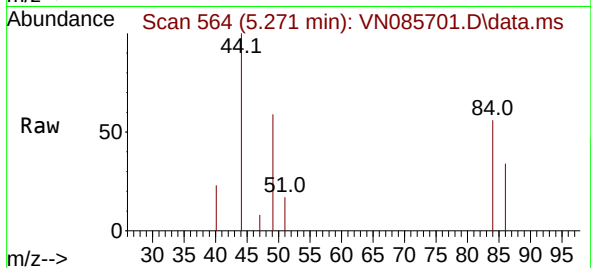
Tgt Ion: 43 Resp: 3371
Ion Ratio Lower Upper
43 100
74 1.6 18.6 28.0#





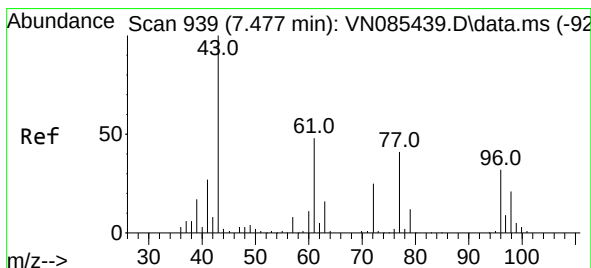
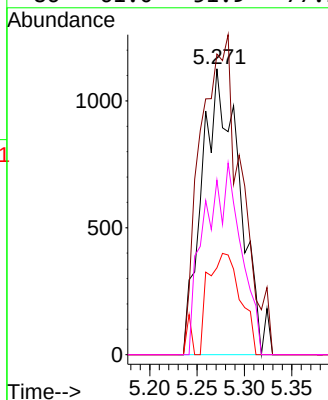
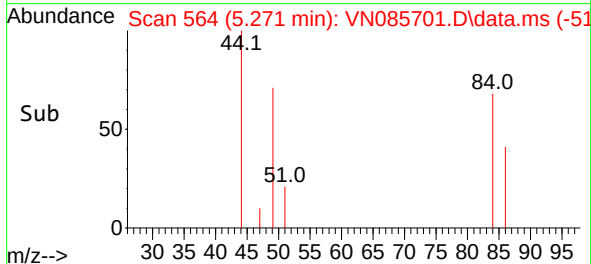
#20
Methylene Chloride
Concen: 1.143 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 3121

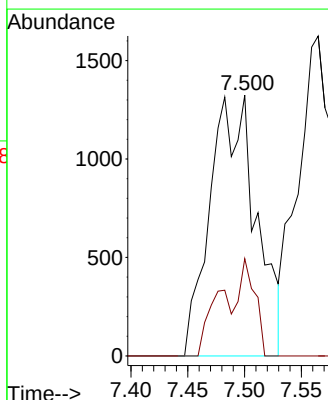
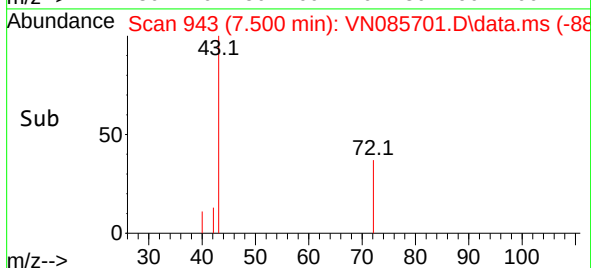
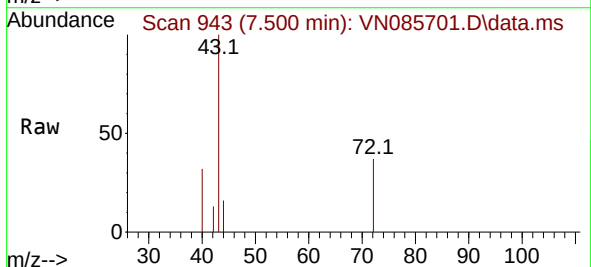
Ion	Ratio	Lower	Upper
84	100		
49	105.1	104.1	156.1
51	30.3	31.0	46.4#
86	61.0	51.9	77.9

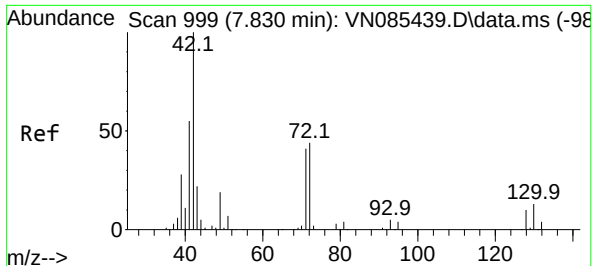


#25
2-Butanone
Concen: 2.297 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.023 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

Tgt Ion: 43 Resp: 3728

Ion	Ratio	Lower	Upper
43	100		
72	37.3	20.2	30.4#





#29

Tetrahydrofuran

Concen: 0.230 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.029 min

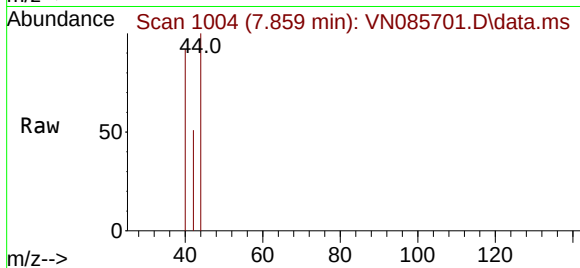
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Acq: 07 Feb 2025 17:05

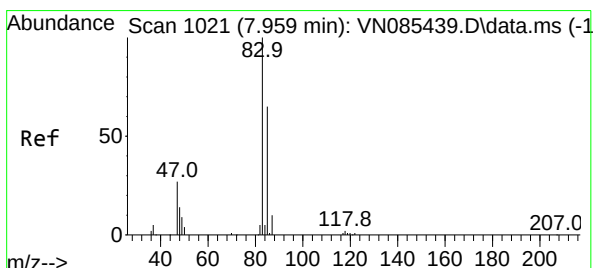
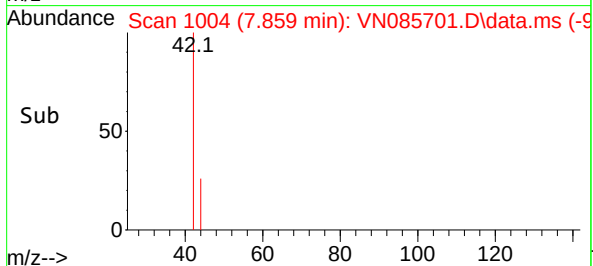
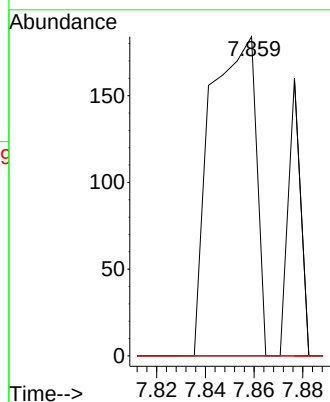
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	237
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.2	51.2#
71	0.0	32.5	48.7#



#30

Chloroform

Concen: 0.267 ug/l

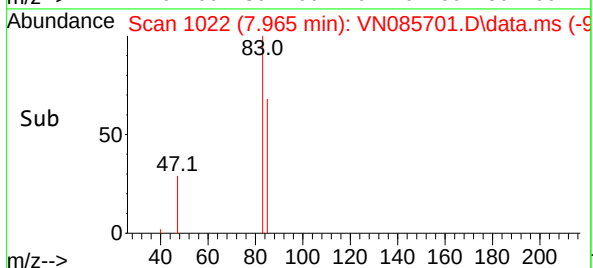
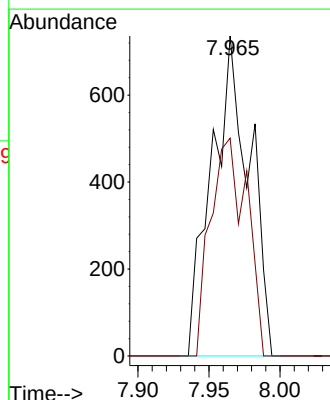
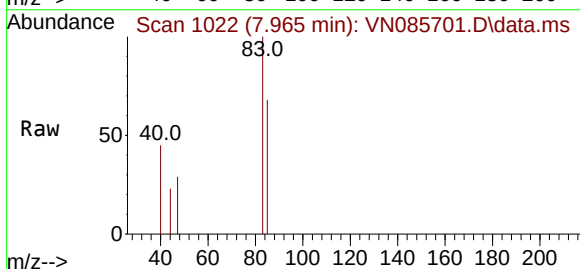
RT: 7.965 min Scan# 1022

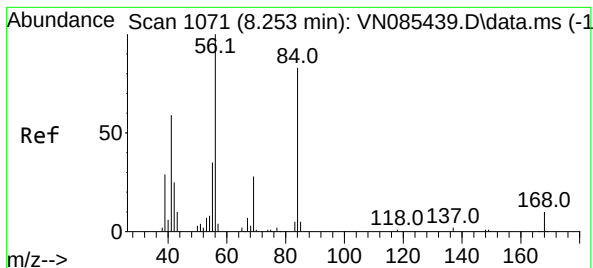
Delta R.T. 0.006 min

Lab File: VN085701.D

Acq: 07 Feb 2025 17:05

Tgt Ion:	83	Resp:	1373
Ion	Ratio	Lower	Upper
83	100		
85	68.1	51.8	77.6





#31

Cyclohexane

Concen: 1.265 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.030 min

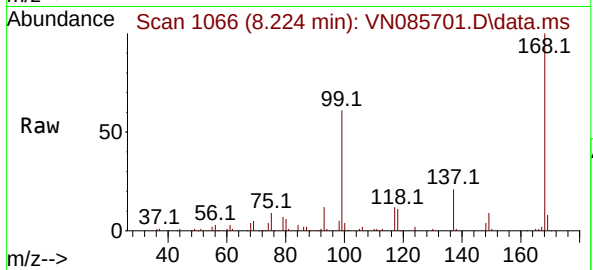
Lab File: VN085701.D

Acq: 07 Feb 2025 17:05

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MSVOA_N

ClientSampleId :



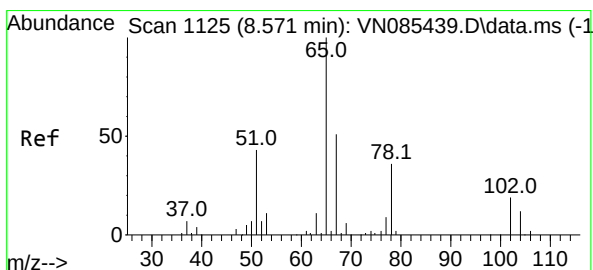
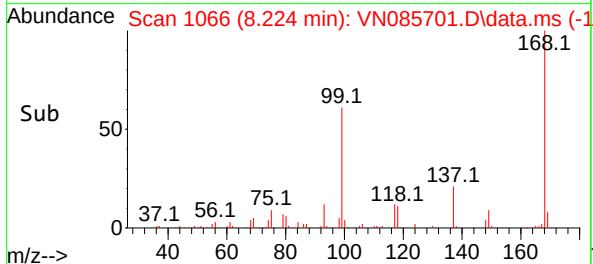
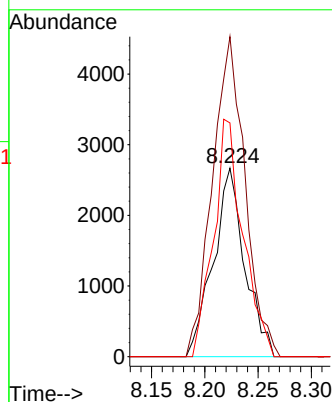
Tgt Ion: 56 Resp: 5480

Ion Ratio Lower Upper

56 100

69 169.8 22.2 33.4#

84 124.0 66.4 99.6#



#33

1,2-Dichloroethane-d4

Concen: 53.823 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085701.D

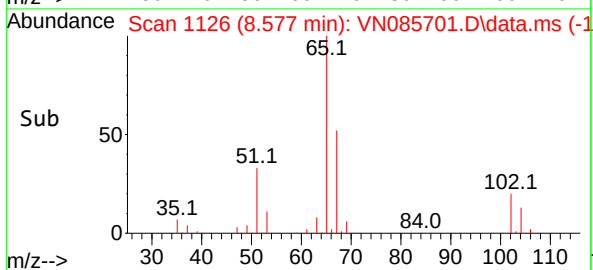
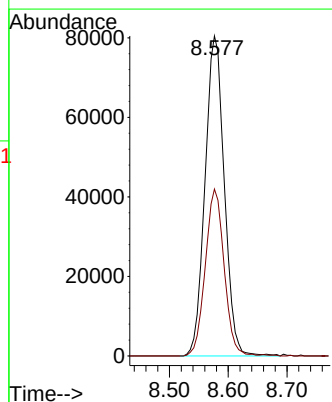
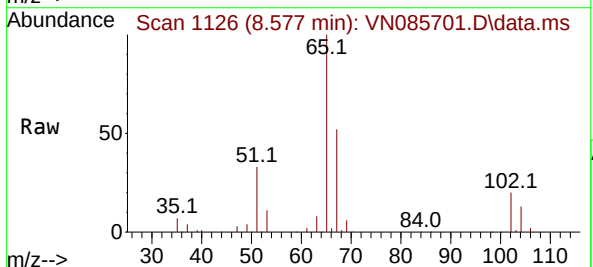
Acq: 07 Feb 2025 17:05

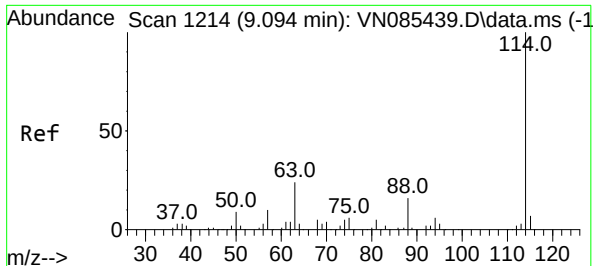
Tgt Ion: 65 Resp: 183716

Ion Ratio Lower Upper

65 100

67 50.8 0.0 101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085701.D

Acq: 07 Feb 2025 17:05

Instrument :

MSVOA_N

ClientSampleId :

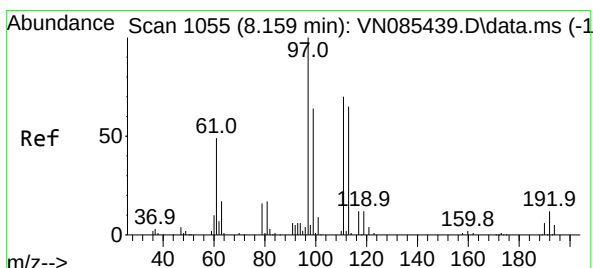
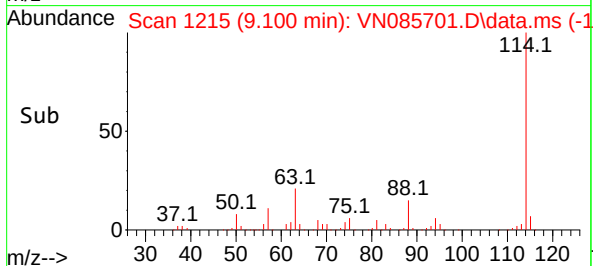
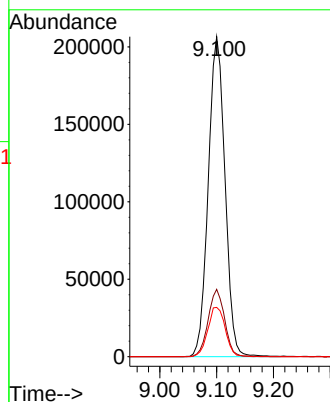
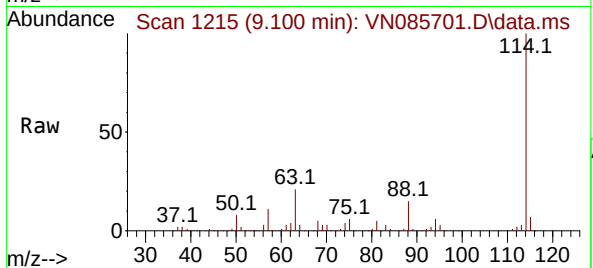
Tgt Ion:114 Resp: 421252

Ion Ratio Lower Upper

114 100

63 21.0 0.0 47.6

88 15.4 0.0 32.6



#35

Dibromofluoromethane

Concen: 50.804 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085701.D

Acq: 07 Feb 2025 17:05

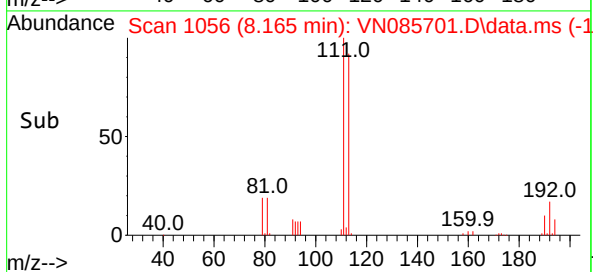
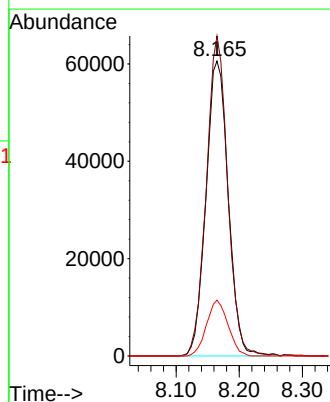
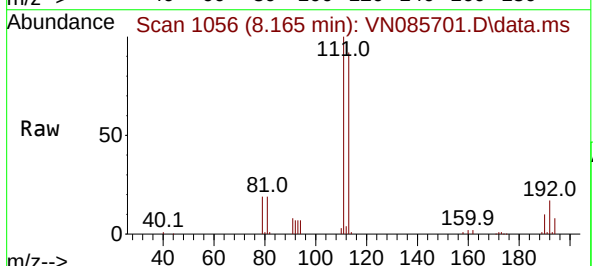
Tgt Ion:113 Resp: 148472

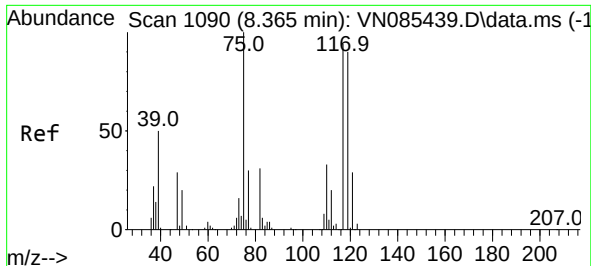
Ion Ratio Lower Upper

113 100

111 103.5 82.7 124.1

192 18.2 14.3 21.5





#36

1,1-Dichloropropene

Concen: 4.646 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

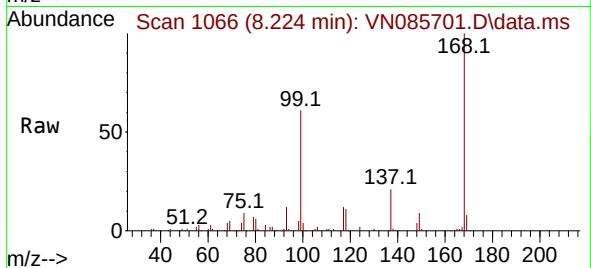
Lab File: VN085701.D

Acq: 07 Feb 2025 17:05

Instrument :

MSVOA_N

ClientSampleId :



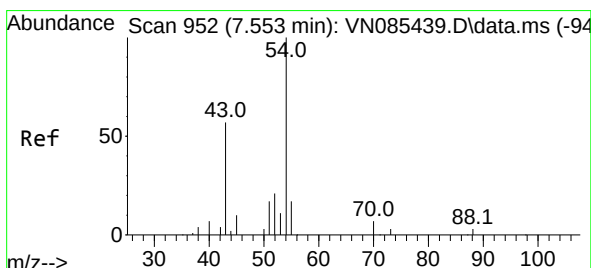
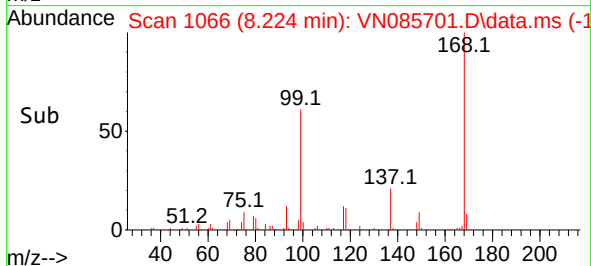
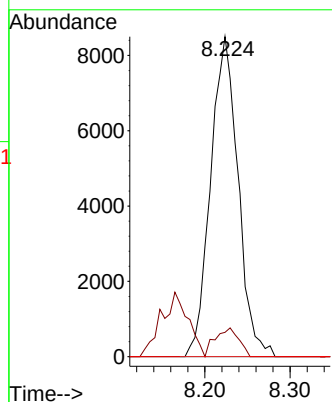
Tgt Ion: 75 Resp: 19056

Ion Ratio Lower Upper

75 100

110 7.7 16.5 49.5#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 0.971 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.012 min

Lab File: VN085701.D

Acq: 07 Feb 2025 17:05

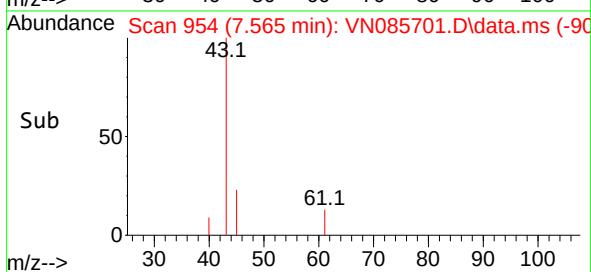
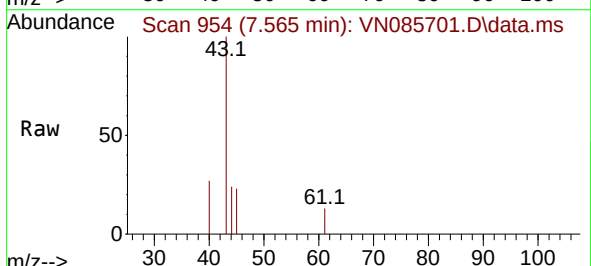
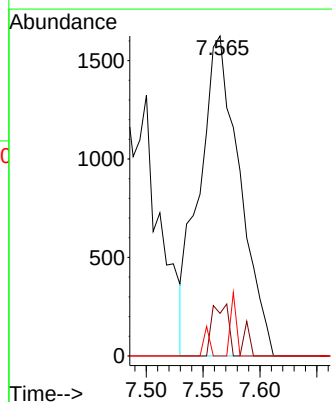
Tgt Ion: 43 Resp: 4021

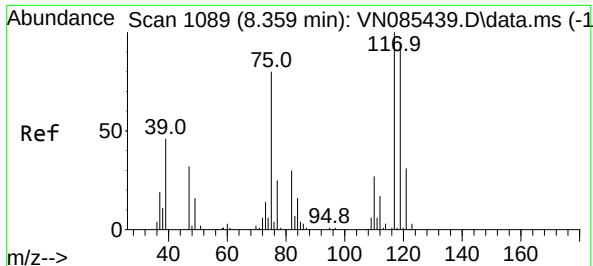
Ion Ratio Lower Upper

43 100

61 6.5 10.9 16.3#

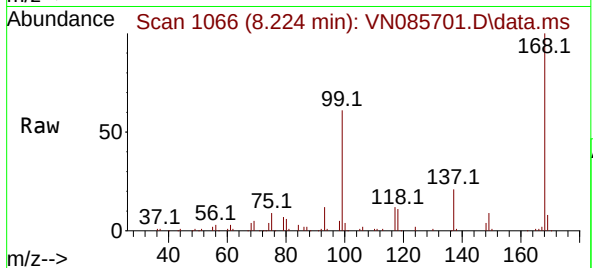
70 2.8 7.5 11.3#



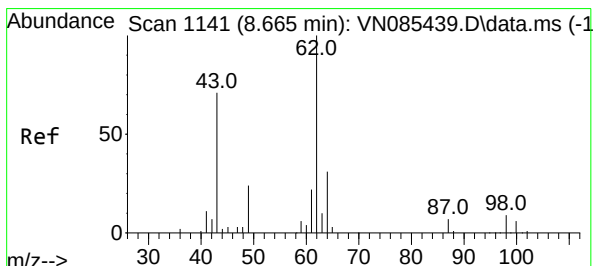
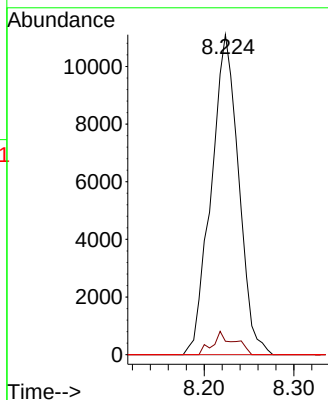
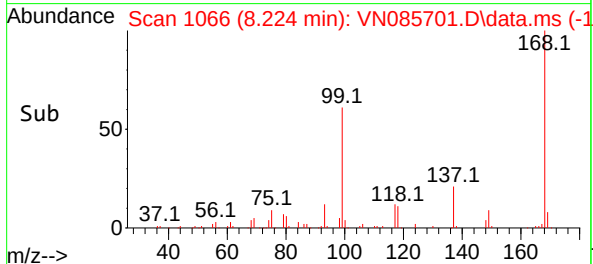


#38
Carbon Tetrachloride
Concen: 5.017 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

Instrument :
MSVOA_N
ClientSampleId :

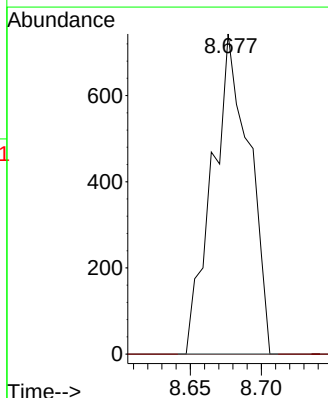
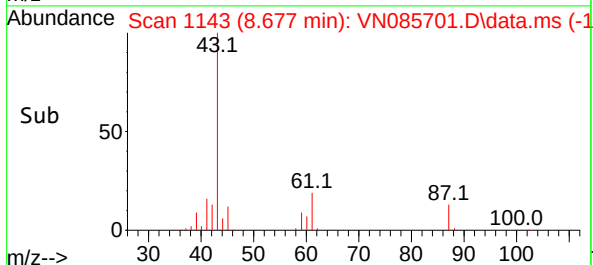
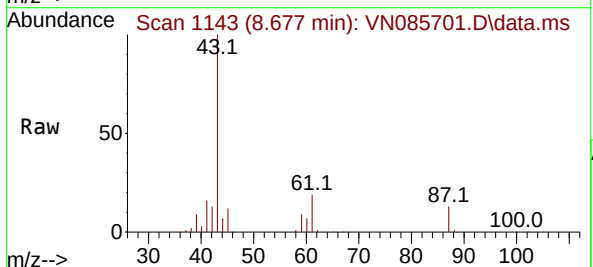


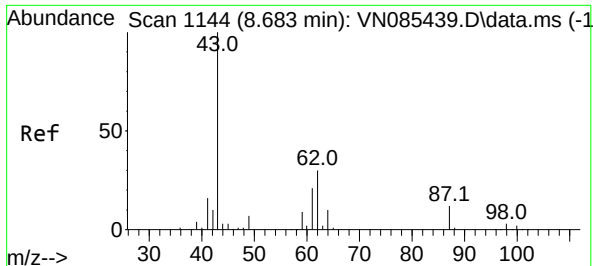
Tgt Ion:117 Resp: 23559
Ion Ratio Lower Upper
117 100
119 4.2 75.4 113.2#
121 0.0 24.6 37.0#



#42
1,2-Dichloroethane
Concen: 0.290 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.012 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

Tgt Ion: 62 Resp: 1348
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.0

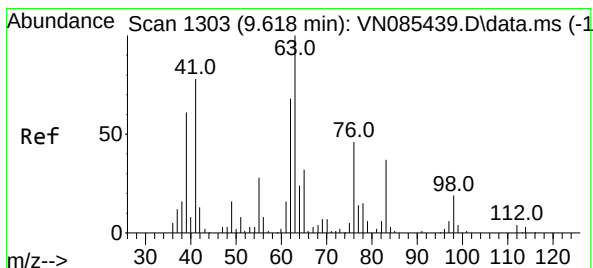
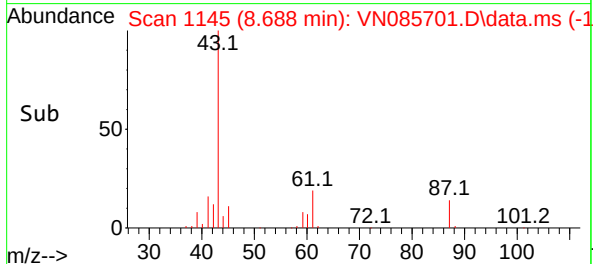
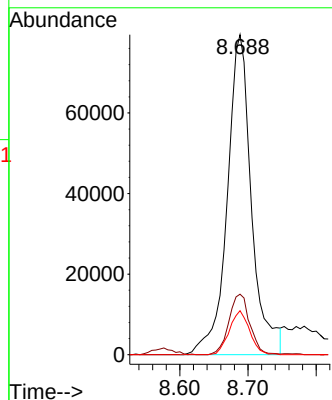
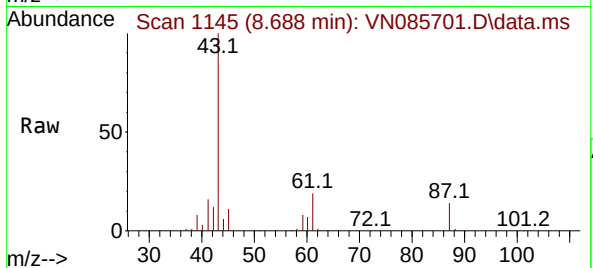




#43
Isopropyl Acetate
Concen: 29.699 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

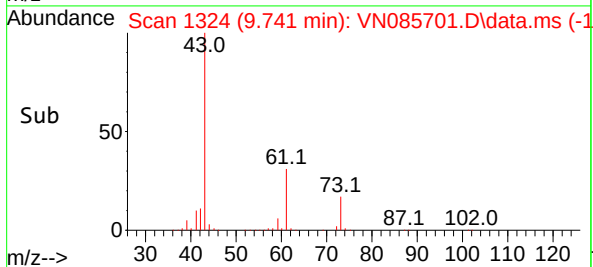
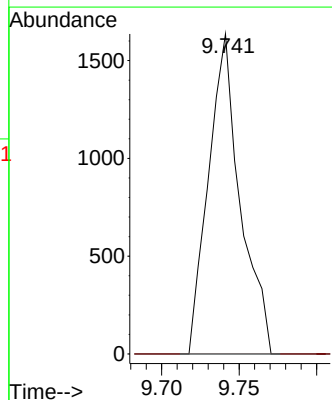
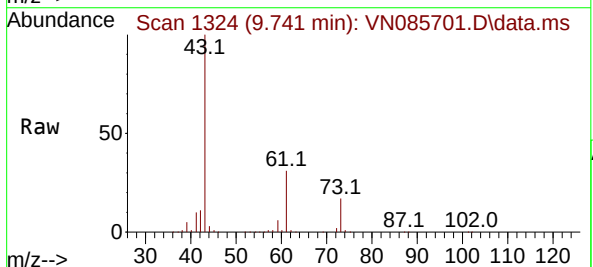
Instrument :
MSVOA_N
ClientSampleId :

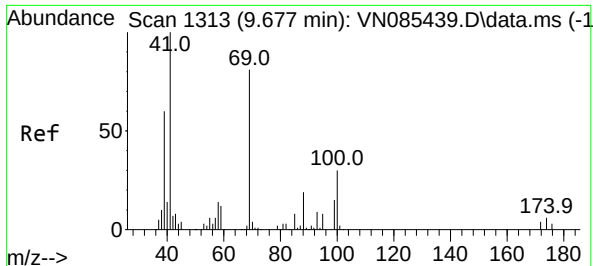
Tgt Ion: 43 Resp: 197014
Ion Ratio Lower Upper
43 100
61 16.3 20.7 31.1#
87 11.5 9.8 14.8



#45
1,2-Dichloropropane
Concen: 0.741 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

Tgt Ion: 63 Resp: 2332
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#

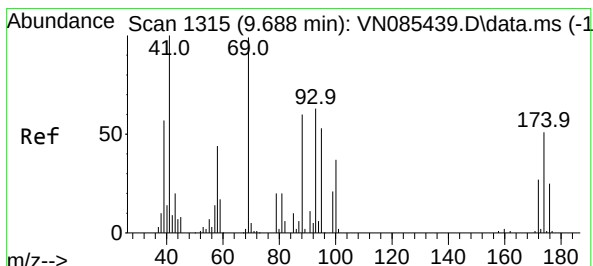
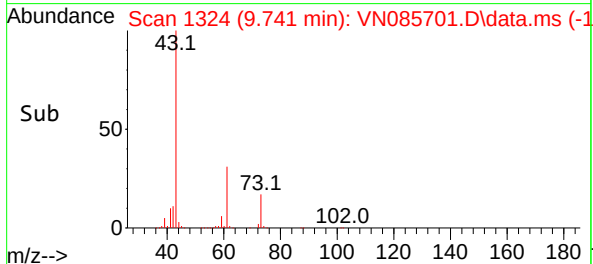
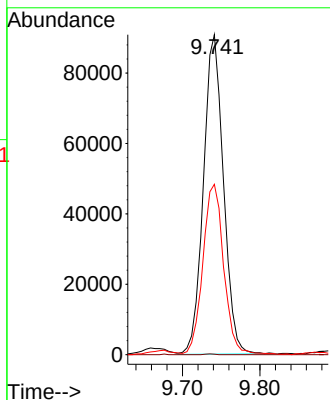
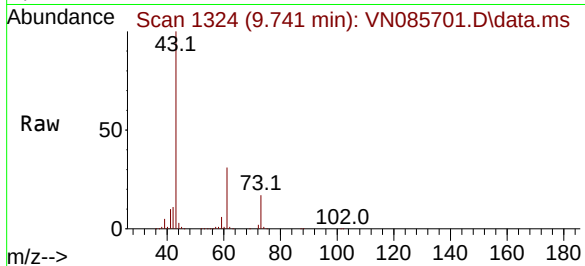




#48
Methyl methacrylate
Concen: 54.491 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.064 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

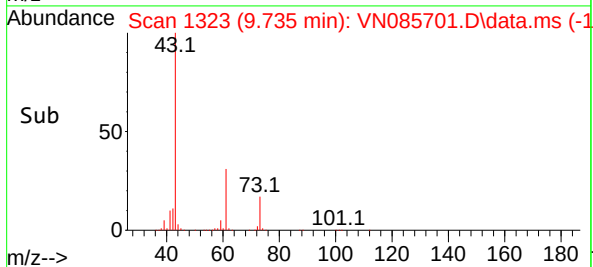
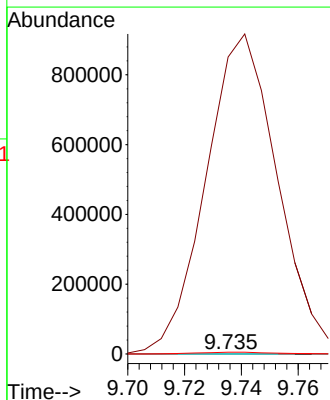
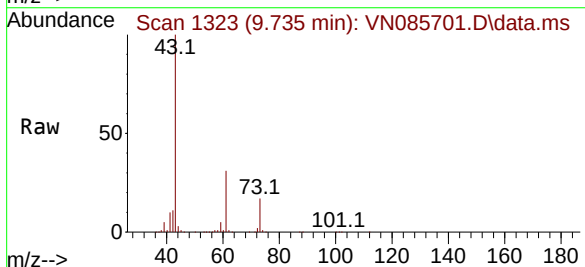
Instrument :
MSVOA_N
ClientSampleId :

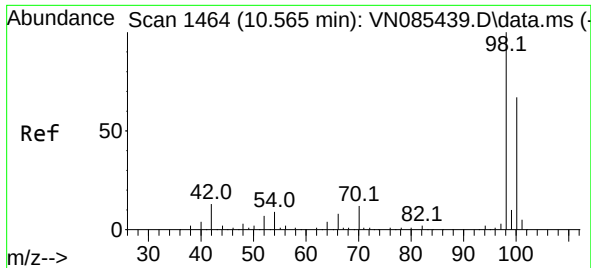
Tgt Ion: 41 Resp: 162673
Ion Ratio Lower Upper
41 100
69 0.1 64.7 97.1#
39 55.8 49.0 73.6



#49
1,4-Dioxane
Concen: 4.177 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.047 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

Tgt Ion: 88 Resp: 210
Ion Ratio Lower Upper
88 100
43 772033.3 26.6 39.8#
58 4647.1 59.5 89.3#

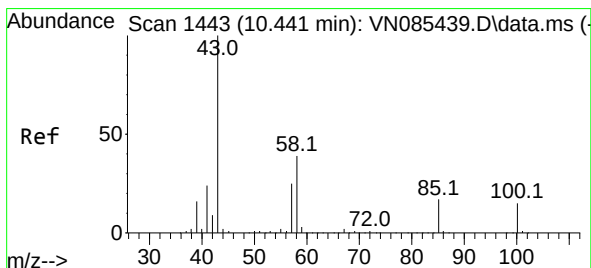
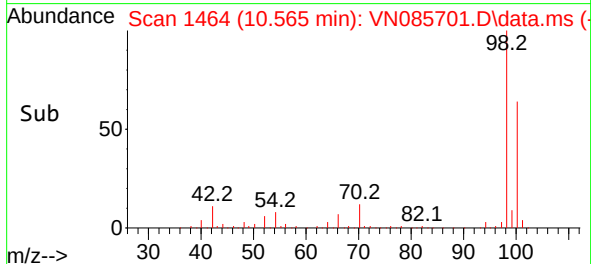
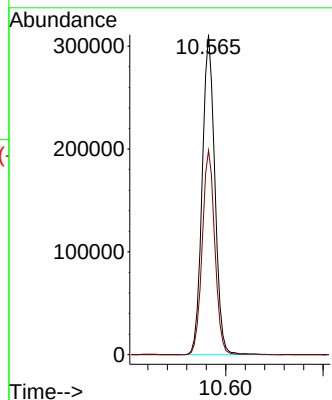
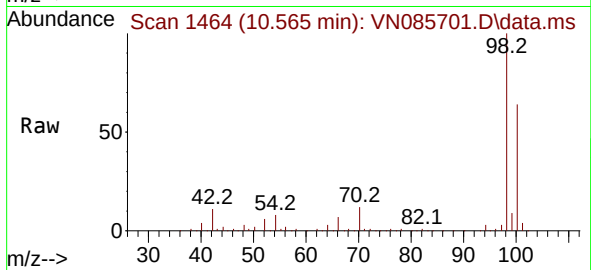




#50
Toluene-d8
Concen: 53.845 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

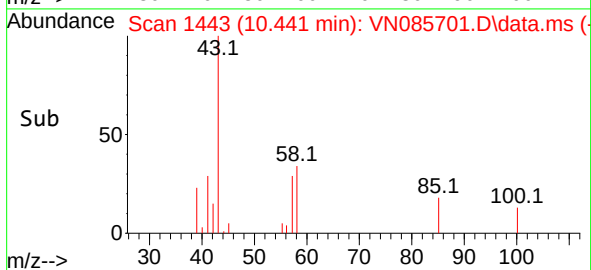
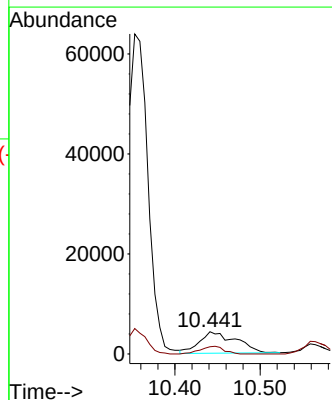
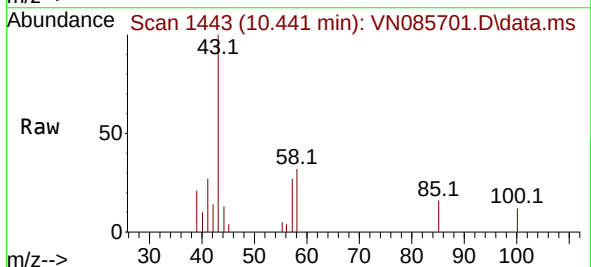
Instrument :
MSVOA_N
ClientSampleId :

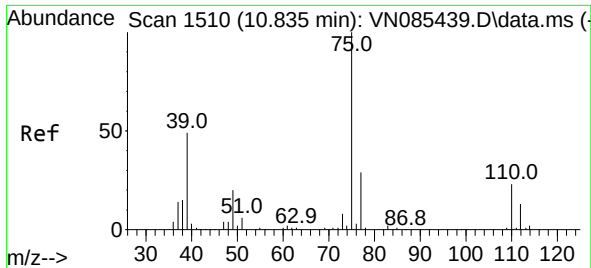
Tgt Ion: 98 Resp: 559099
Ion Ratio Lower Upper
98 100
100 63.7 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 3.339 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

Tgt Ion: 43 Resp: 12855
Ion Ratio Lower Upper
43 100
58 23.0 30.5 45.7#

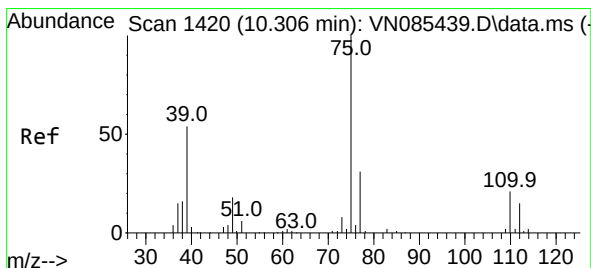
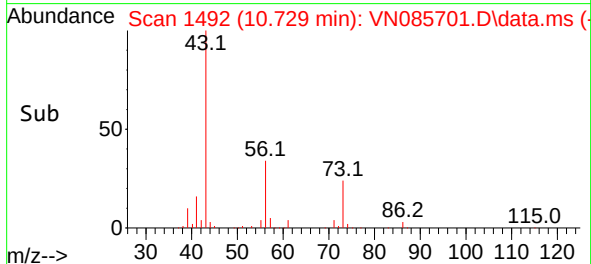
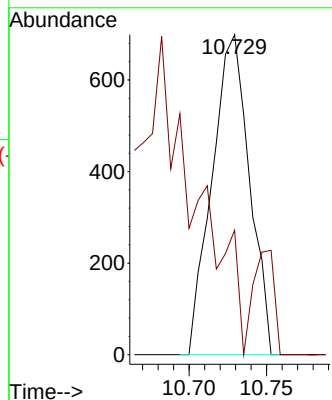
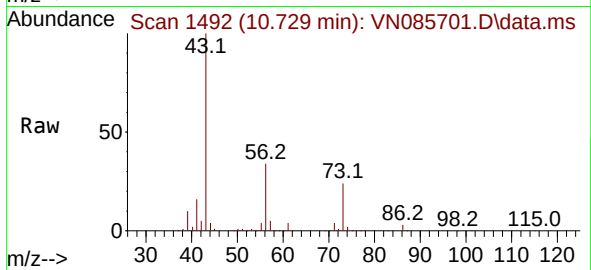




#53
 t-1,3-Dichloropropene
 Concen: 0.268 ug/l
 RT: 10.729 min Scan# 1492
 Delta R.T. -0.106 min
 Lab File: VN085701.D
 Acq: 07 Feb 2025 17:05

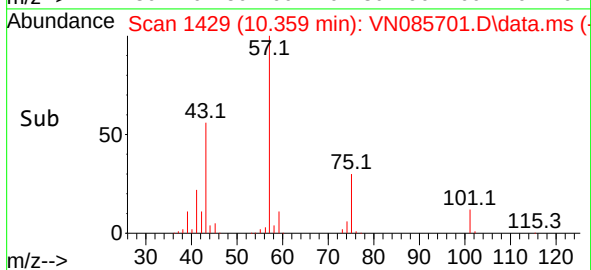
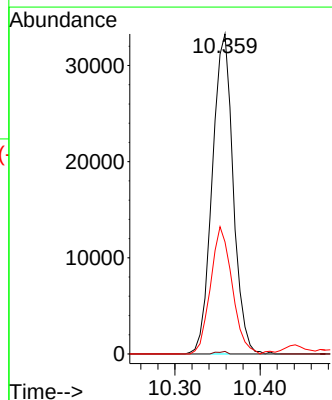
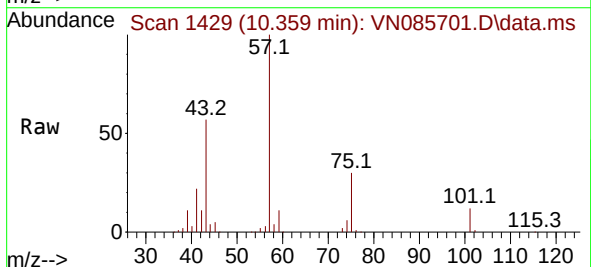
Instrument :
 MSVOA_N
 ClientSampleId :

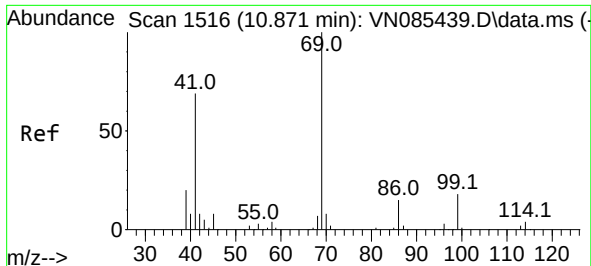
Tgt Ion: 75 Resp: 1174
 Ion Ratio Lower Upper
 75 100
 77 38.9 23.5 35.3#



#54
 cis-1,3-Dichloropropene
 Concen: 12.157 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.053 min
 Lab File: VN085701.D
 Acq: 07 Feb 2025 17:05

Tgt Ion: 75 Resp: 56790
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.0 37.4#
 39 35.0 43.1 64.7#

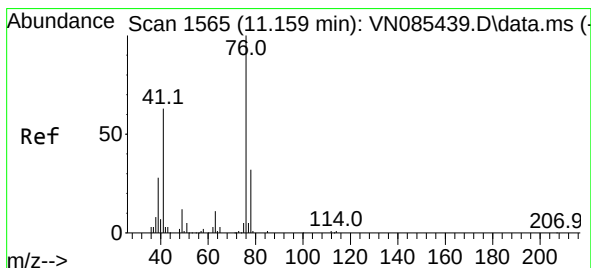
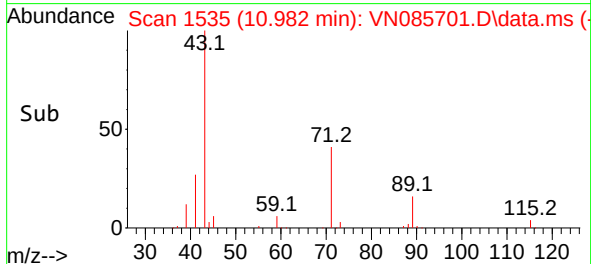
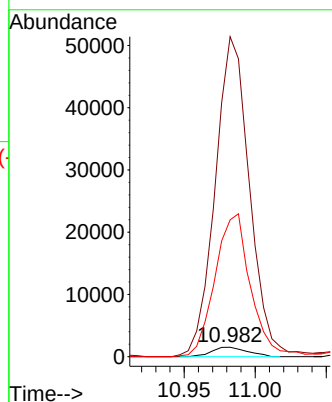
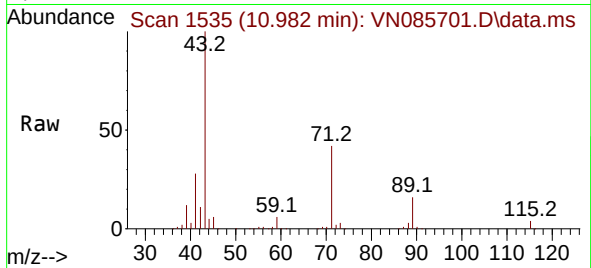




#56
Ethyl methacrylate
Concen: 2.470 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

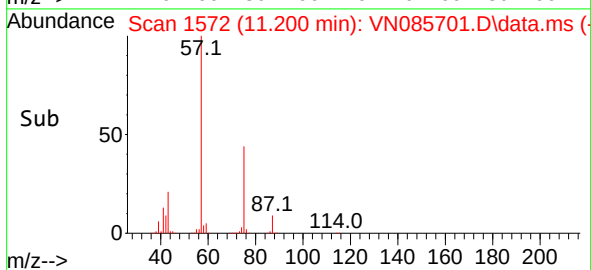
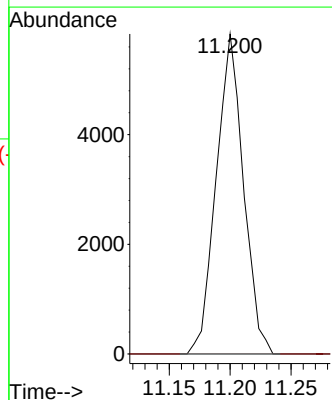
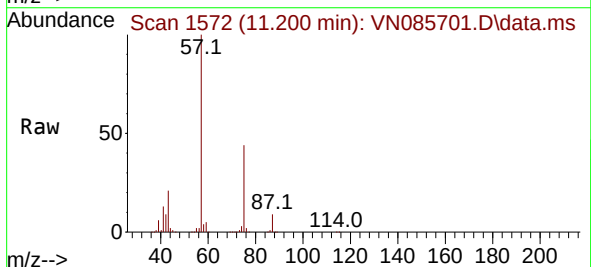
Instrument :
MSVOA_N
ClientSampleId :

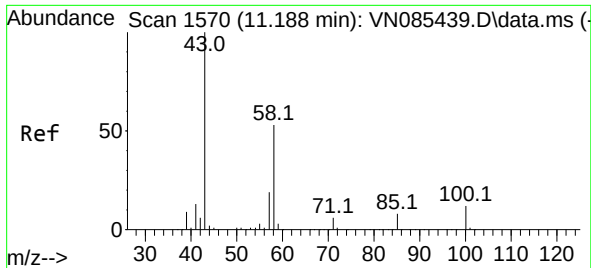
Tgt Ion: 69 Resp: 2667
Ion Ratio Lower Upper
69 100
41 3252.6 54.6 82.0#
39 1504.0 32.4 48.6#



#57
1,3-Dichloropropane
Concen: 1.846 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

Tgt Ion: 76 Resp: 9071
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

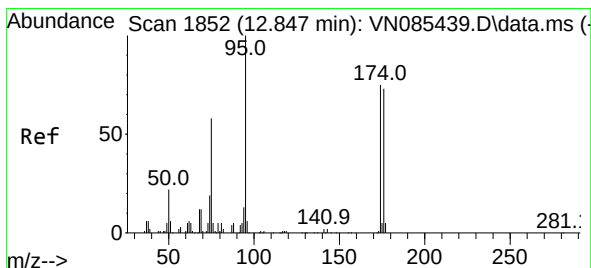
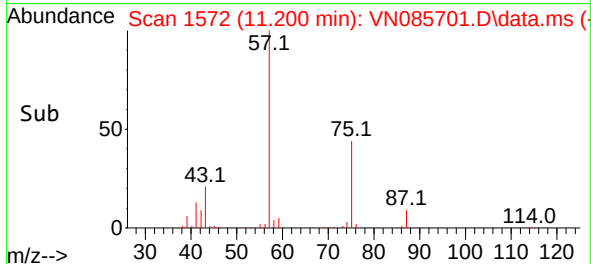
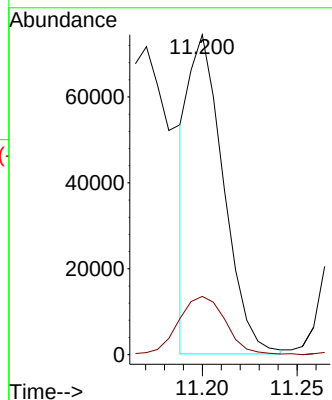
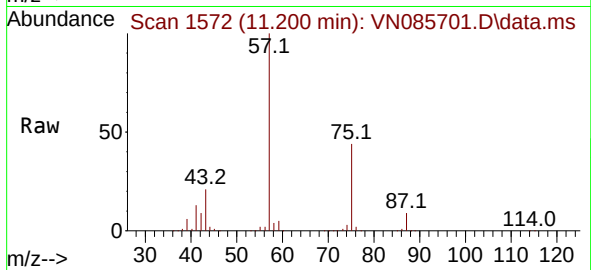




#59
2-Hexanone
Concen: 35.312 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

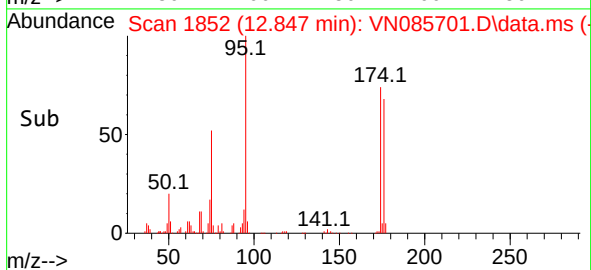
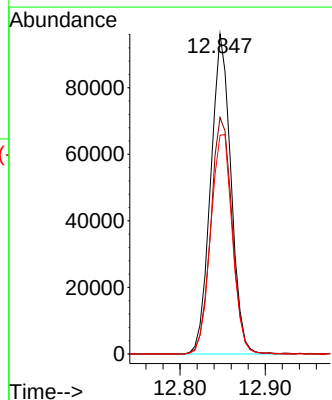
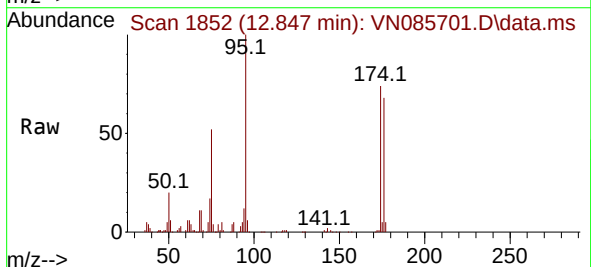
Instrument :
MSVOA_N
ClientSampleId :

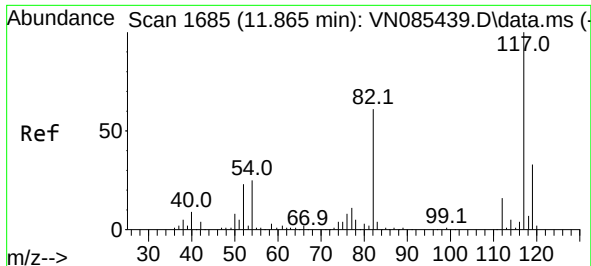
Tgt Ion: 43 Resp: 95646
Ion Ratio Lower Upper
43 100
58 24.7 26.2 78.6#



#62
4-Bromofluorobenzene
Concen: 44.637 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

Tgt Ion: 95 Resp: 158547
Ion Ratio Lower Upper
95 100
174 77.7 0.0 145.0
176 73.5 0.0 142.4

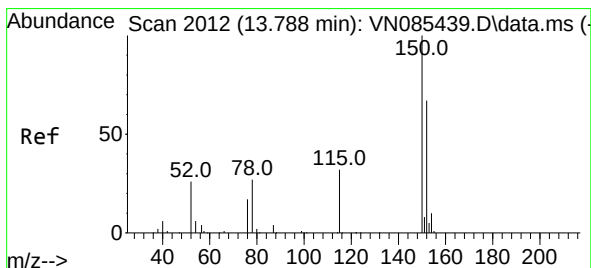
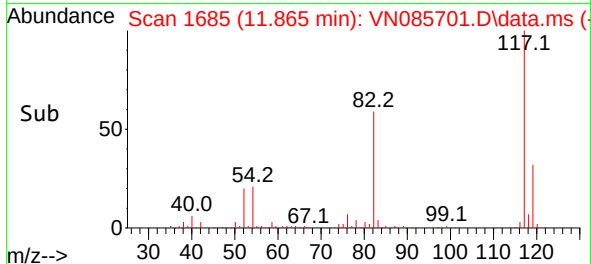
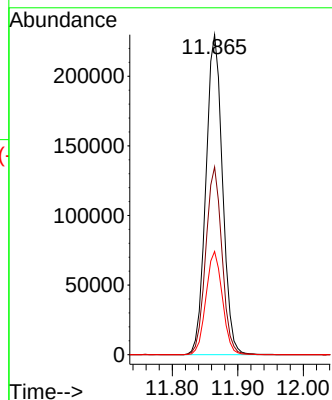
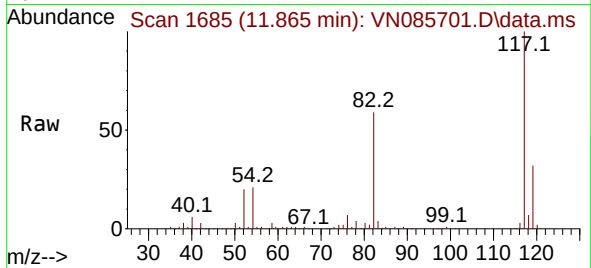




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

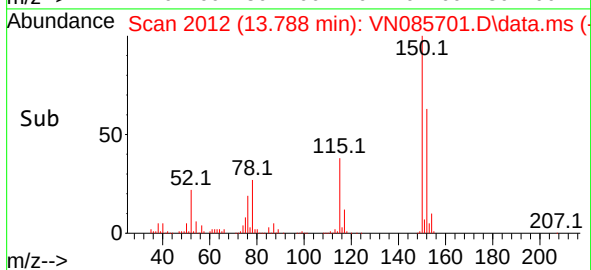
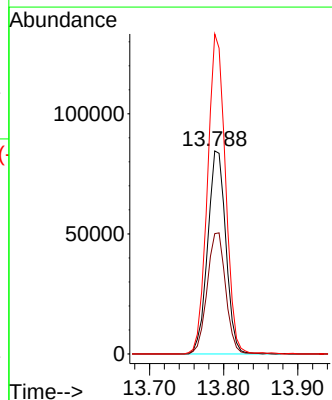
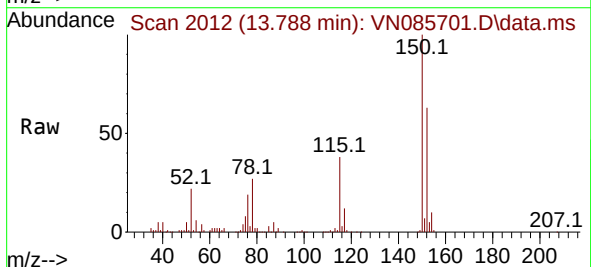
Instrument :
MSVOA_N
ClientSampleId :

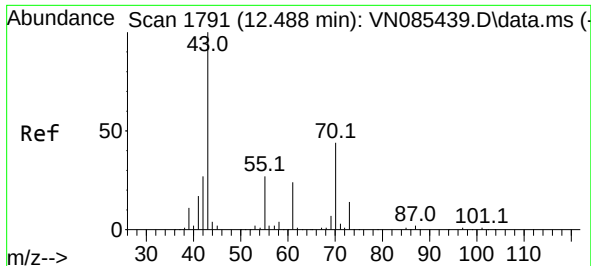
Tgt Ion:117 Resp: 405445
Ion Ratio Lower Upper
117 100
82 58.6 48.6 72.8
119 32.2 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

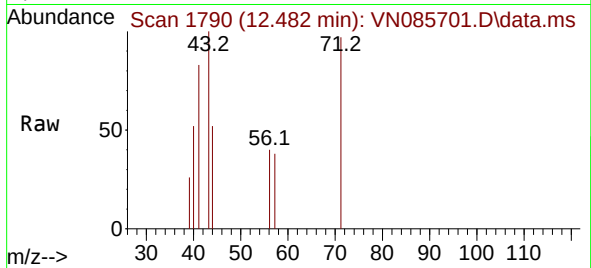
Tgt Ion:152 Resp: 144033
Ion Ratio Lower Upper
152 100
115 60.7 31.1 93.3
150 155.5 0.0 343.6



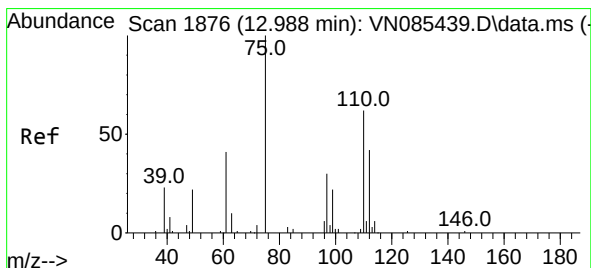
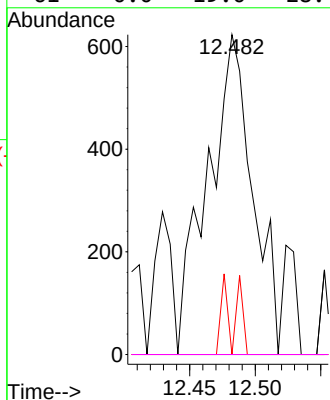
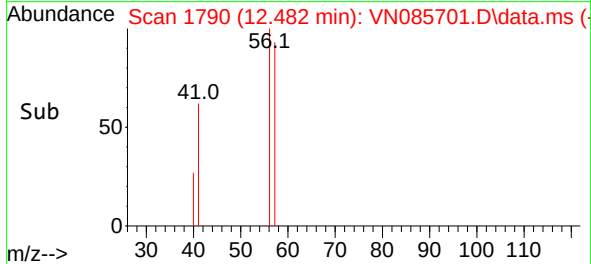


#74
N-amy1 acetate
Concen: 0.341 ug/l
RT: 12.482 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

Instrument :
MSVOA_N
ClientSampleId :

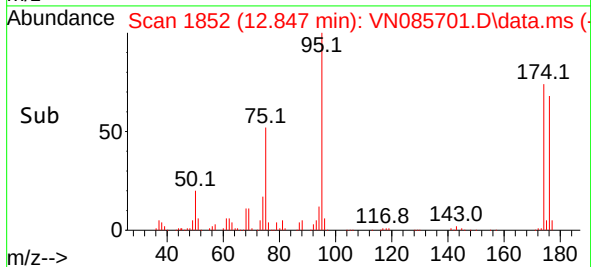
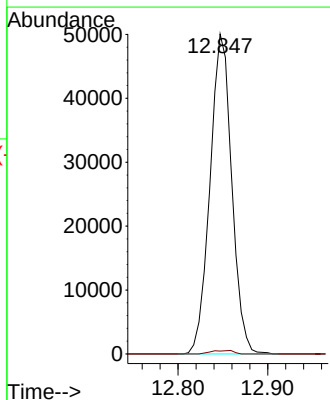
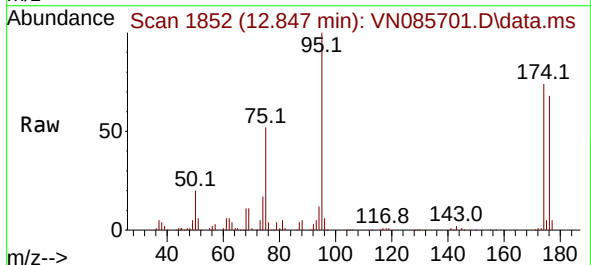


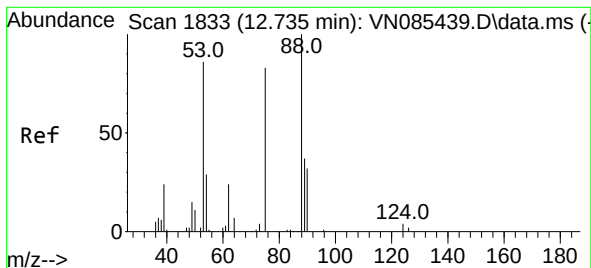
Tgt Ion: 43 Resp: 1489
Ion Ratio Lower Upper
43 100
70 0.0 34.0 51.0#
55 7.4 21.4 32.2#
61 0.0 19.0 28.4#



#76
1,2,3-Trichloropropane
Concen: 28.790 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085701.D
Acq: 07 Feb 2025 17:05

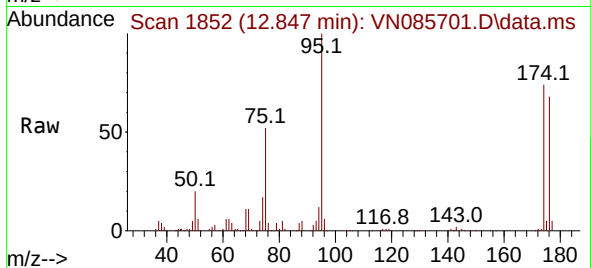
Tgt Ion: 75 Resp: 84284
Ion Ratio Lower Upper
75 100
77 1.1 109.7 329.2#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.894 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN085701.D
 Acq: 07 Feb 2025 17:05

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 84284
 Ion Ratio Lower Upper
 75 100
 53 0.0 95.6 143.4#
 89 0.0 37.0 55.6#

