

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020725\
 Data File : VN085704.D
 Acq On : 07 Feb 2025 18:17
 Operator : JC\MD
 Sample : PB166592ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 07 22:34:58 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

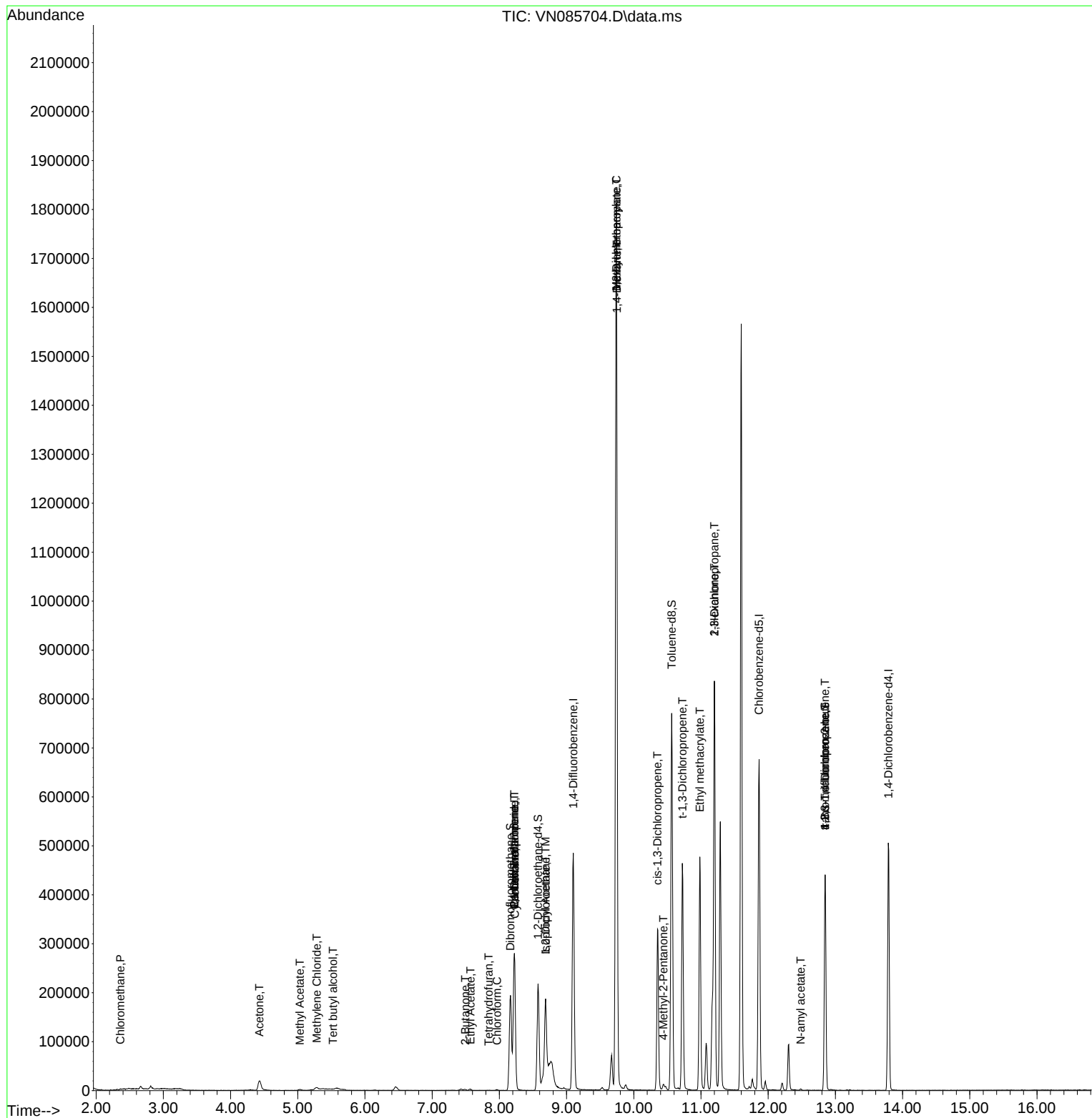
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	198768	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	405427	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	386691	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	137888	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	173411	54.047	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 108.100%	
35) Dibromofluoromethane	8.165	113	142304	50.594	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.180%	
50) Toluene-d8	10.565	98	528731	52.908	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 105.820%	
62) 4-Bromofluorobenzene	12.847	95	151759	44.394	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 88.780%	
Target Compounds						Qvalue
3) Chloromethane	2.359	50	586	0.201	ug/l	94
11) Tert butyl alcohol	5.524	59	136	0.370	ug/l #	71
16) Acetone	4.430	43	38909	37.531	ug/l	100
18) Methyl Acetate	5.030	43	4037	1.281	ug/l #	86
20) Methylene Chloride	5.283	84	3379	1.317	ug/l #	80
25) 2-Butanone	7.494	43	4011	2.629	ug/l #	77
29) Tetrahydrofuran	7.841	42	522	0.540	ug/l #	34
30) Chloroform	7.965	83	1477	0.305	ug/l #	70
31) Cyclohexane	8.229	56	4900	1.203	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	17501	4.433	ug/l #	50
37) Ethyl Acetate	7.571	43	3956	0.993	ug/l #	94
38) Carbon Tetrachloride	8.224	117	22002	4.868	ug/l #	18
42) 1,2-Dichloroethane	8.688	62	1216	0.272	ug/l #	76
43) Isopropyl Acetate	8.688	43	225725	35.355	ug/l #	84
45) 1,2-Dichloropropane	9.741	63	2291	0.756	ug/l #	43
48) Methyl methacrylate	9.741	41	166013	57.780	ug/l #	45
49) 1,4-Dioxane	9.747	88	157	3.245	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	6636	1.791	ug/l	90
53) t-1,3-Dichloropropene	10.723	75	1219	0.290	ug/l #	85
54) cis-1,3-Dichloropropene	10.353	75	56616	12.593	ug/l #	66
56) Ethyl methacrylate	10.982	69	3409	2.646	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	7959	1.683	ug/l #	43
59) 2-Hexanone	11.200	43	95357	36.580	ug/l #	61
74) N-amyl acetate	12.482	43	1415	0.338	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	80110	28.584	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	80110	77.336	ug/l #	3

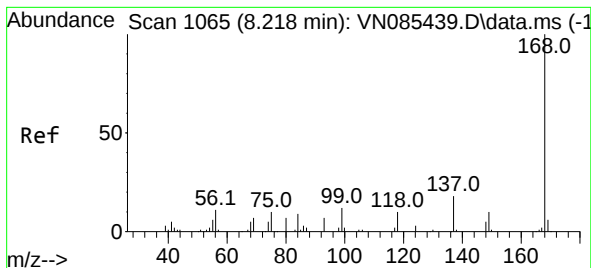
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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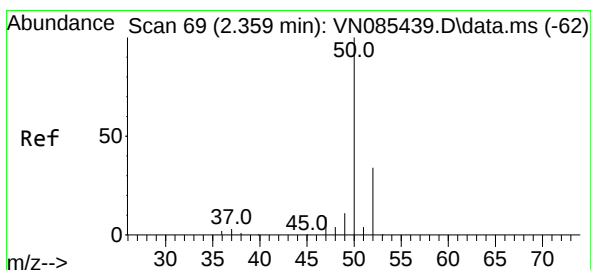
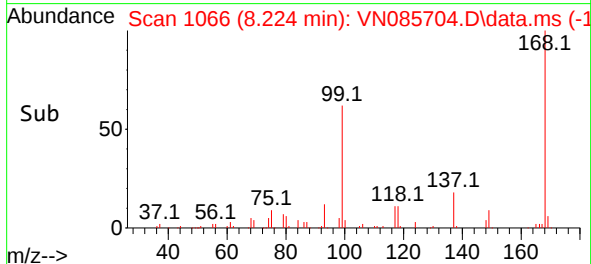
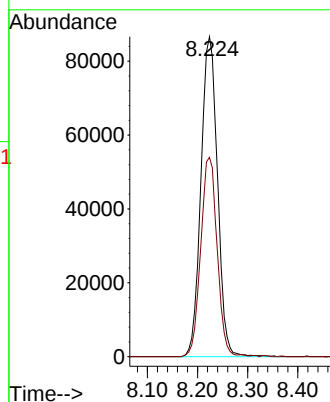
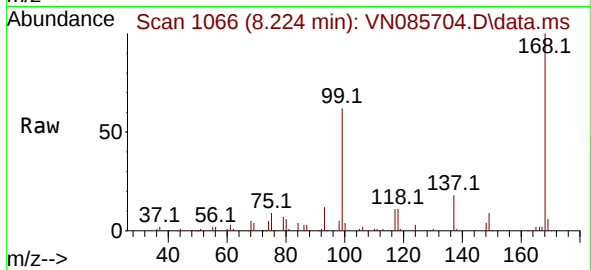




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

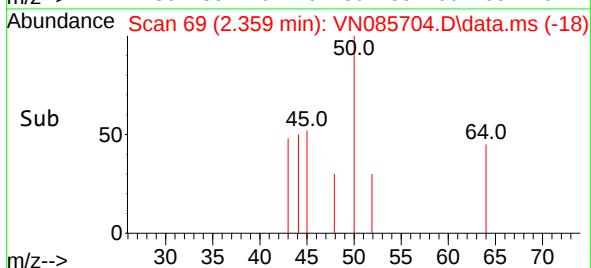
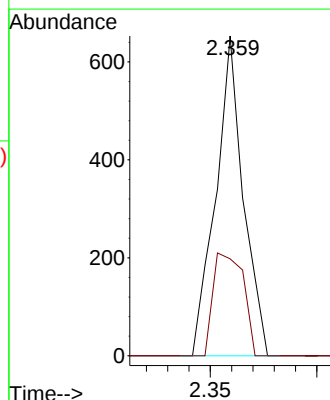
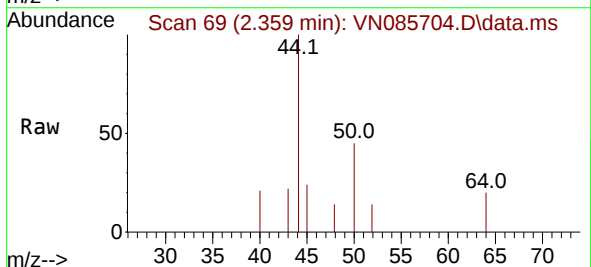
Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:168 Resp: 198768
Ion Ratio Lower Upper
168 100
99 62.3 53.6 80.4



#3
Chloromethane
Concen: 0.201 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

Tgt Ion: 50 Resp: 586
Ion Ratio Lower Upper
50 100
52 30.3 27.0 40.6

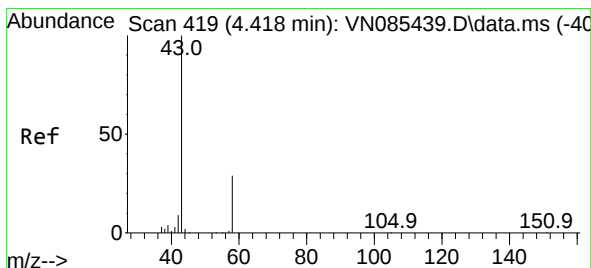
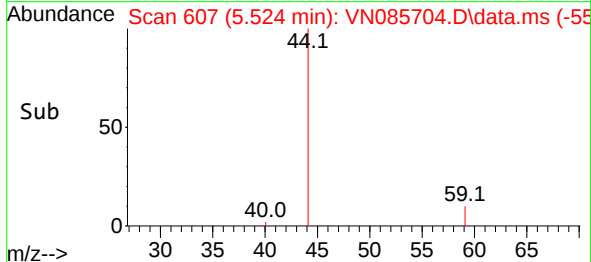
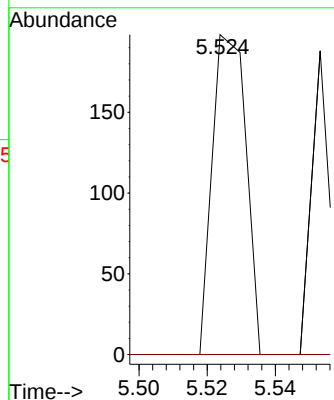
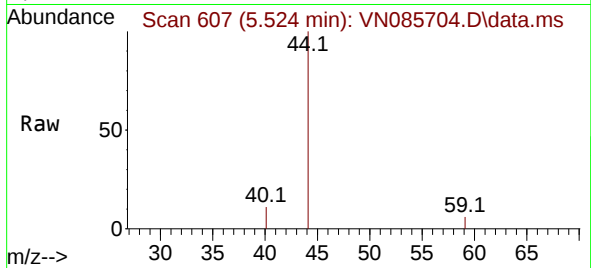




#11
Tert butyl alcohol
Concen: 0.370 ug/l
RT: 5.524 min Scan# 605
Delta R.T. 0.012 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

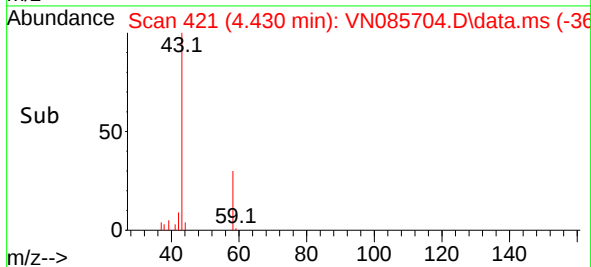
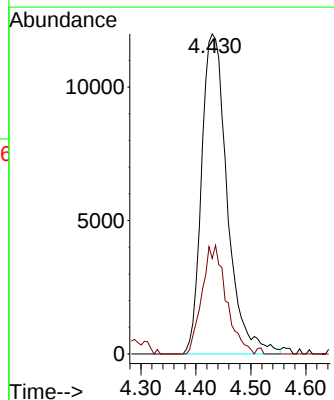
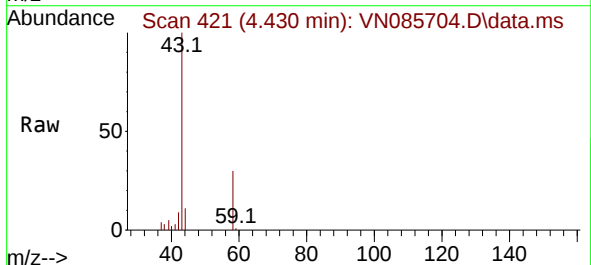
Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 59 Resp: 136
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#16
Acetone
Concen: 37.531 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

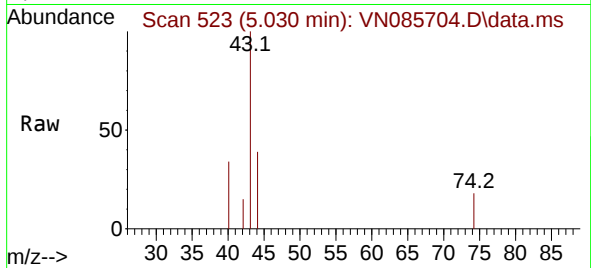
Tgt Ion: 43 Resp: 38909
Ion Ratio Lower Upper
43 100
58 29.9 23.8 35.6



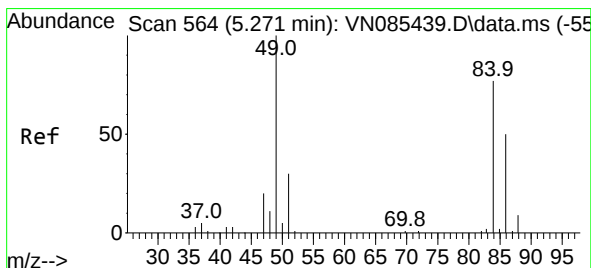
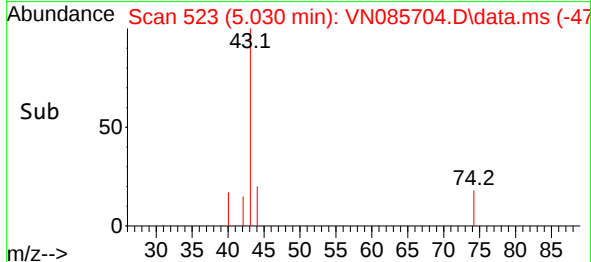
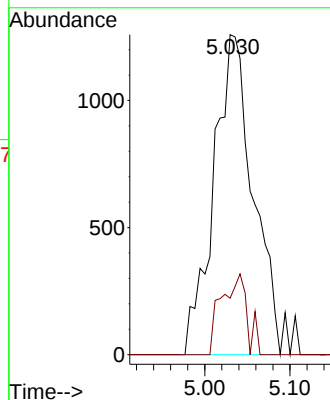


#18
Methyl Acetate
Concen: 1.281 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

Instrument :
MSVOA_N
ClientSampleId :

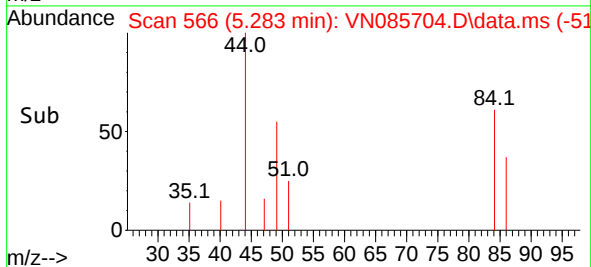
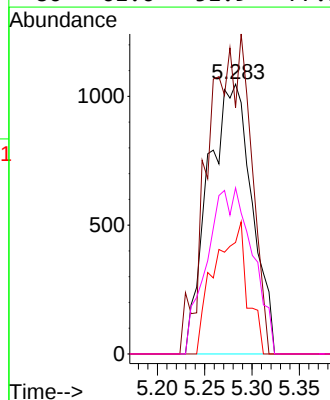
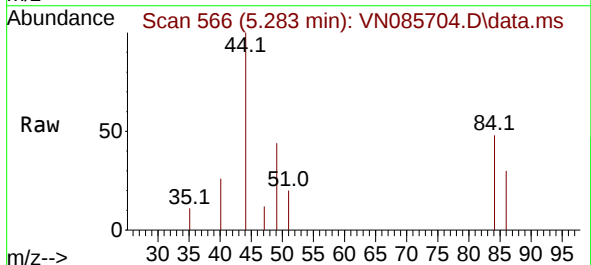


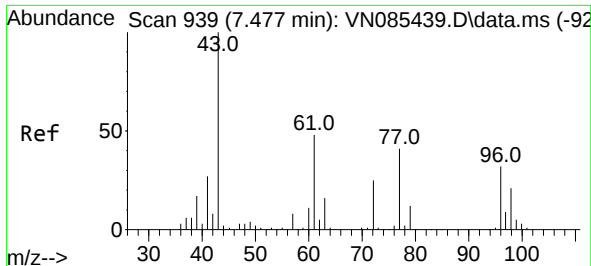
Tgt Ion: 43 Resp: 4037
Ion Ratio Lower Upper
43 100
74 16.5 18.6 28.0#



#20
Methylene Chloride
Concen: 1.317 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.012 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

Tgt Ion: 84 Resp: 3379
Ion Ratio Lower Upper
84 100
49 91.3 104.1 156.1#
51 41.4 31.0 46.4
86 61.6 51.9 77.9

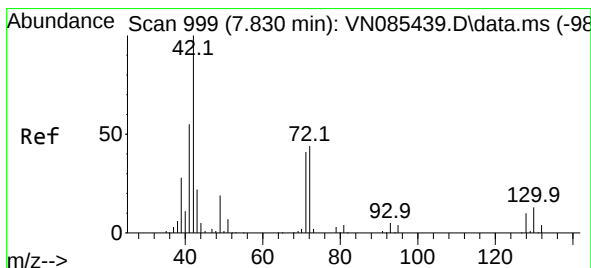
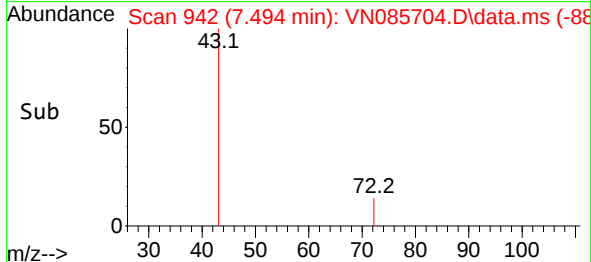
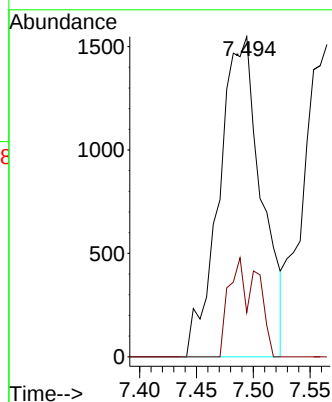
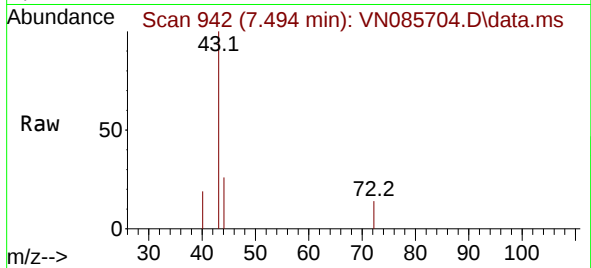




#25
2-Butanone
Concen: 2.629 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.017 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

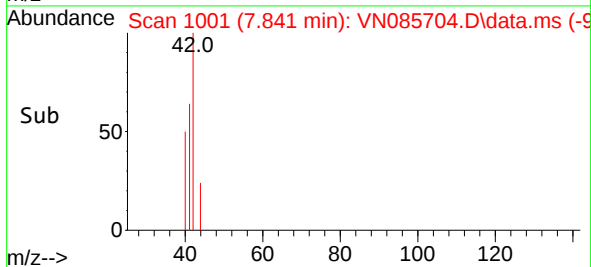
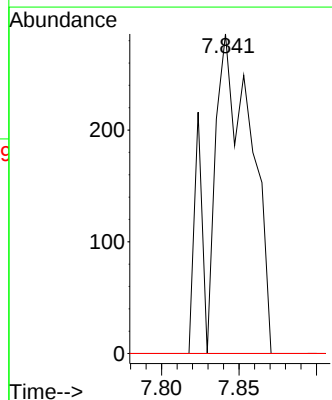
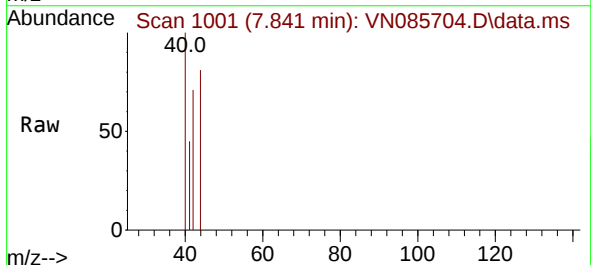
Instrument :
MSVOA_N
ClientSampleId :

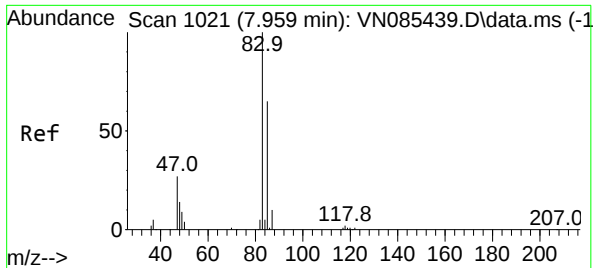
Tgt Ion: 43 Resp: 4011
Ion Ratio Lower Upper
43 100
72 13.8 20.2 30.4#



#29
Tetrahydrofuran
Concen: 0.540 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.012 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

Tgt Ion: 42 Resp: 522
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 0.0 32.5 48.7#

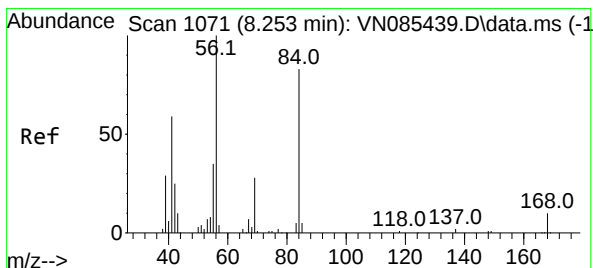
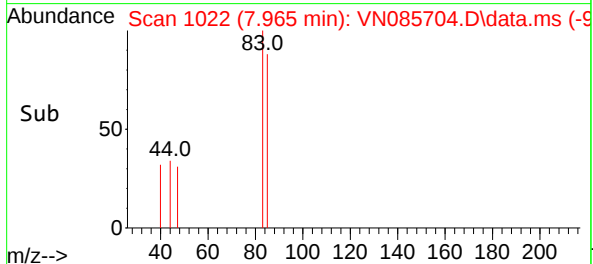
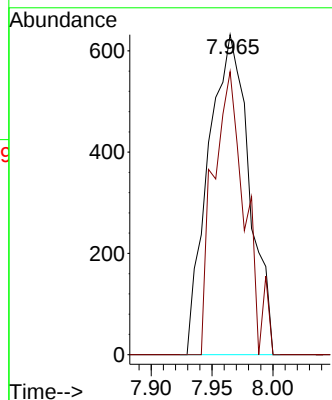
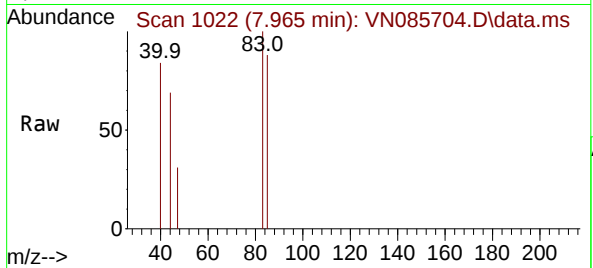




#30
Chloroform
Concen: 0.305 ug/l
RT: 7.965 min Scan# 1021
Delta R.T. 0.006 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

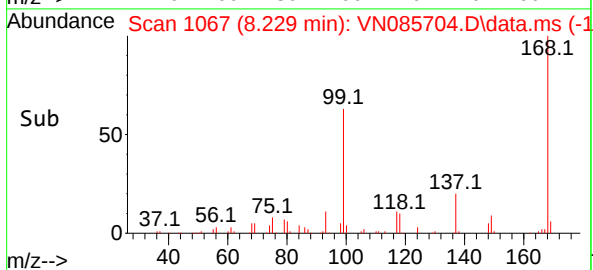
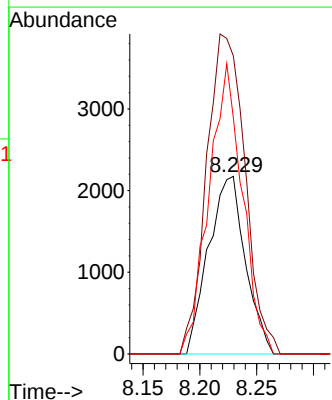
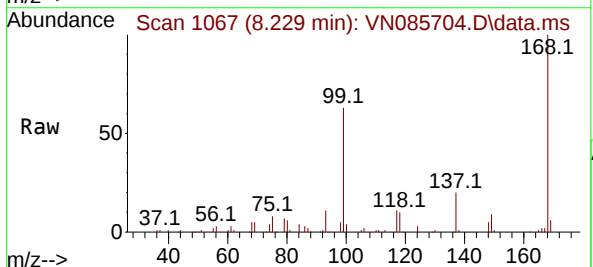
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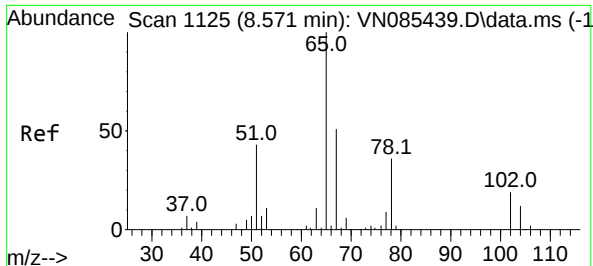
Tgt Ion: 83 Resp: 1477
Ion Ratio Lower Upper
83 100
85 88.4 51.8 77.6#



#31
Cyclohexane
Concen: 1.203 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.024 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

Tgt Ion: 56 Resp: 4900
Ion Ratio Lower Upper
56 100
69 167.8 22.2 33.4#
84 133.1 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 54.047 ug/l

RT: 8.576 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085704.D

Acq: 07 Feb 2025 18:17

Instrument :

MSVOA_N

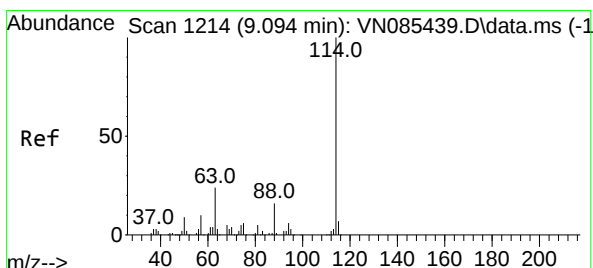
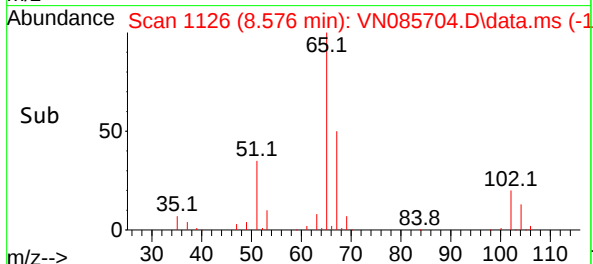
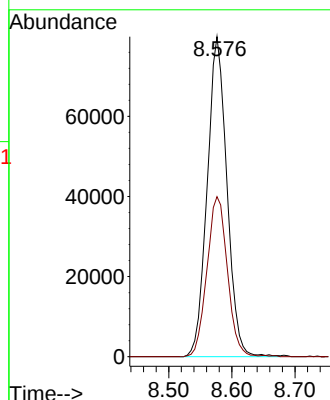
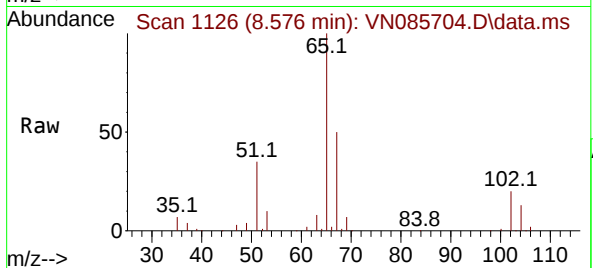
ClientSampleId :

Tgt Ion: 65 Resp: 173411

Ion Ratio Lower Upper

65 100

67 52.0 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085704.D

Acq: 07 Feb 2025 18:17

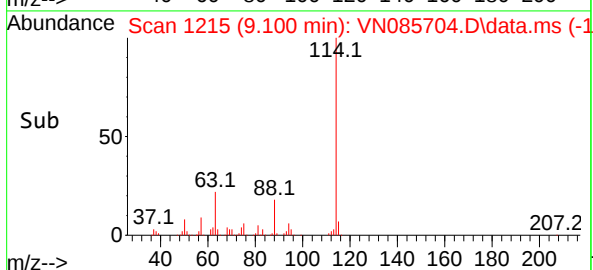
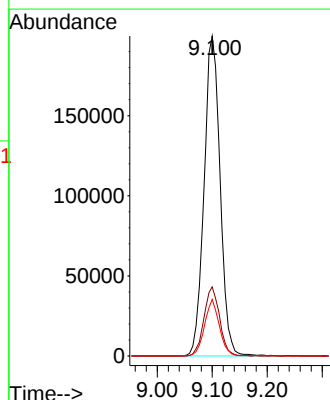
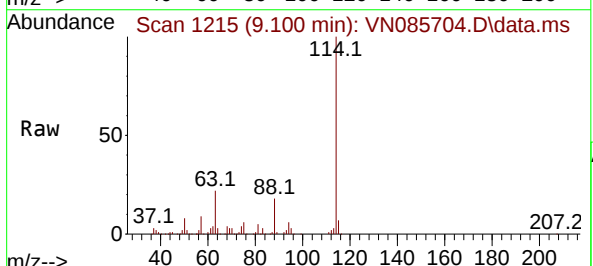
Tgt Ion: 114 Resp: 405427

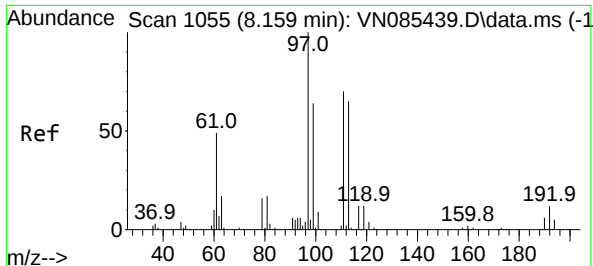
Ion Ratio Lower Upper

114 100

63 21.6 0.0 47.6

88 17.7 0.0 32.6





#35

Dibromofluoromethane

Concen: 50.594 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

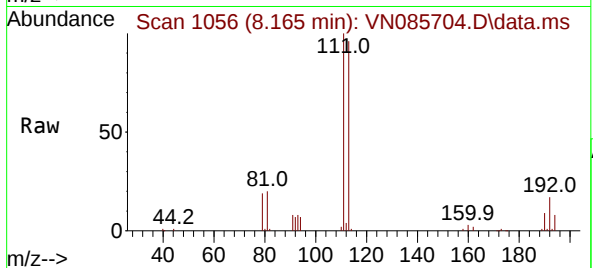
Lab File: VN085704.D

Acq: 07 Feb 2025 18:17

Instrument :

MSVOA_N

ClientSampleId :



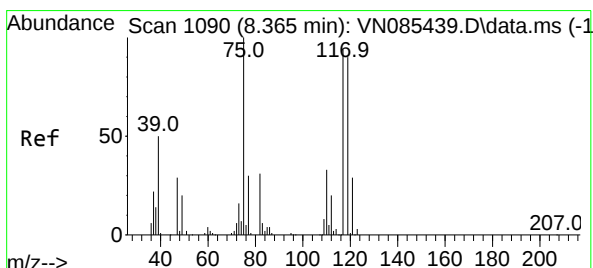
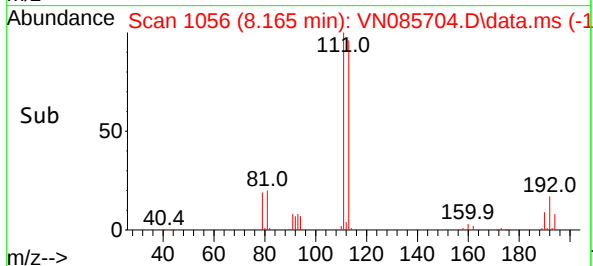
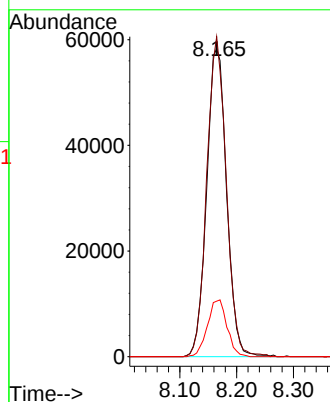
Tgt Ion:113 Resp: 142304

Ion Ratio Lower Upper

113 100

111 101.0 82.7 124.1

192 18.1 14.3 21.5



#36

1,1-Dichloropropene

Concen: 4.433 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085704.D

Acq: 07 Feb 2025 18:17

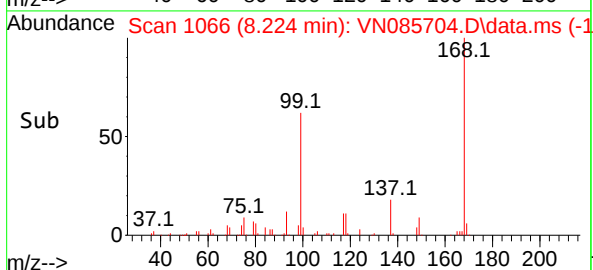
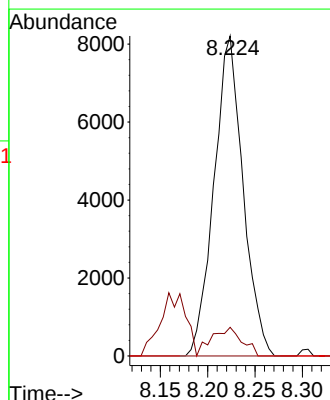
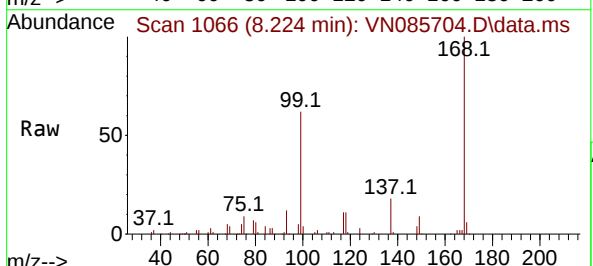
Tgt Ion: 75 Resp: 17501

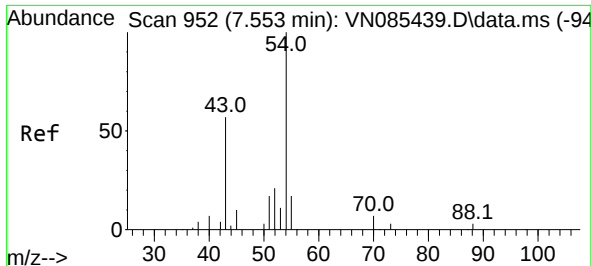
Ion Ratio Lower Upper

75 100

110 8.0 16.5 49.5#

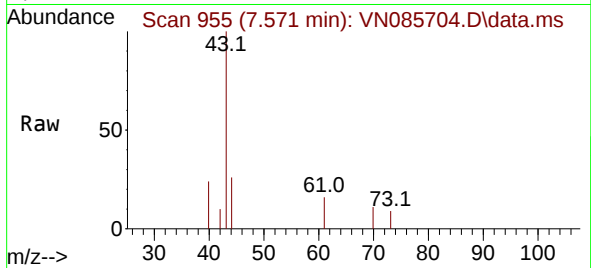
77 0.0 24.4 36.6#



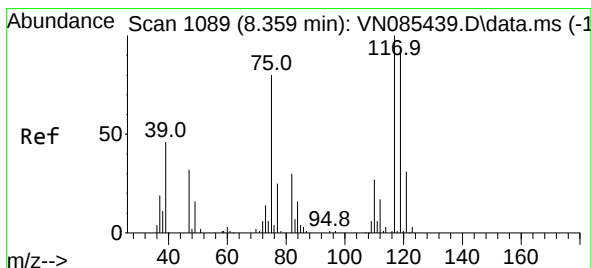
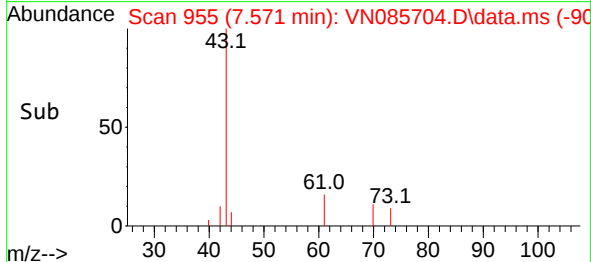
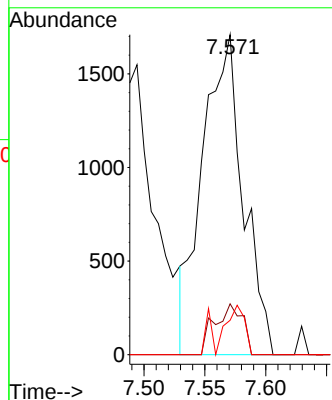


#37
Ethyl Acetate
Concen: 0.993 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.017 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

Instrument :
MSVOA_N
ClientSampleId :

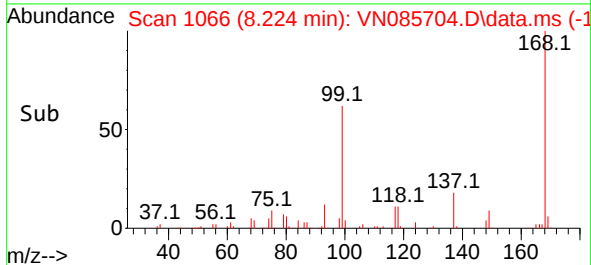
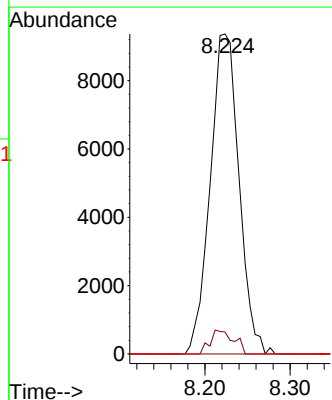
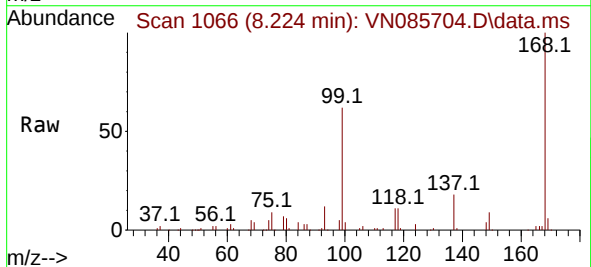


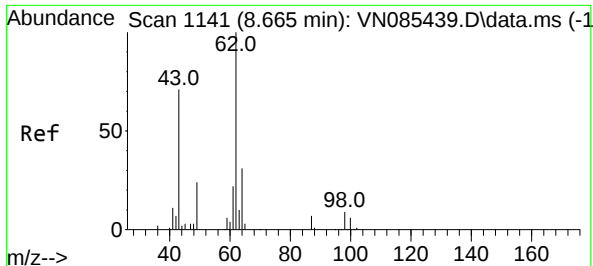
Tgt Ion: 43 Resp: 3956
Ion Ratio Lower Upper
43 100
61 10.9 10.9 16.3
70 7.1 7.5 11.3#



#38
Carbon Tetrachloride
Concen: 4.868 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

Tgt Ion: 117 Resp: 22002
Ion Ratio Lower Upper
117 100
119 6.8 75.4 113.2#
121 0.0 24.6 37.0#





#42

1,2-Dichloroethane

Concen: 0.272 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.023 min

Lab File: VN085704.D

Acq: 07 Feb 2025 18:17

Instrument :

MSVOA_N

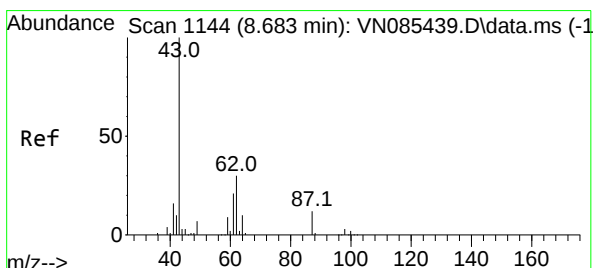
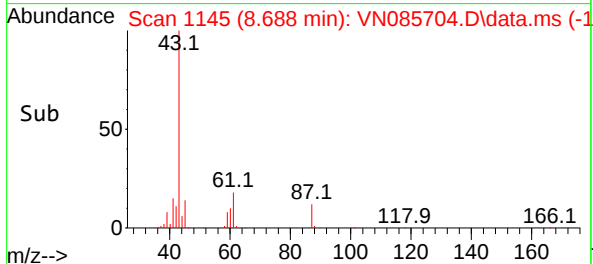
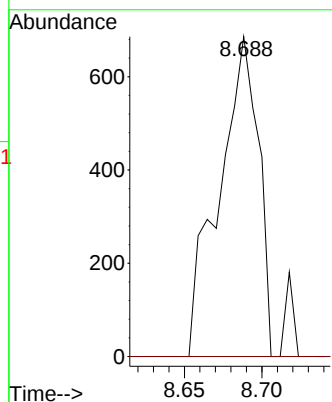
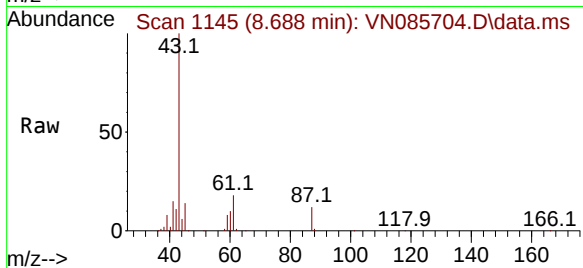
ClientSampleId :

Tgt Ion: 62 Resp: 1216

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.0



#43

Isopropyl Acetate

Concen: 35.355 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN085704.D

Acq: 07 Feb 2025 18:17

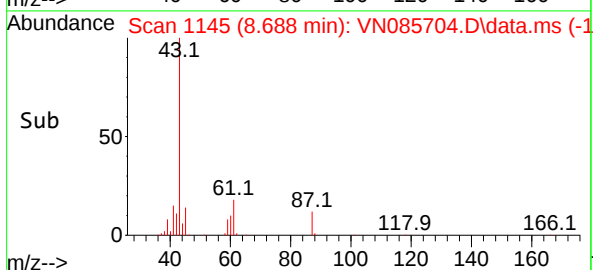
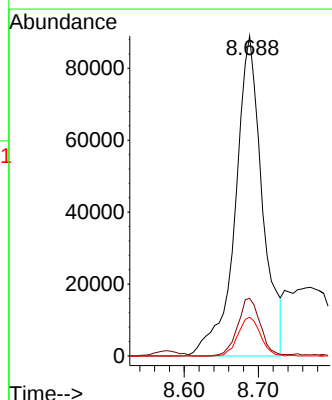
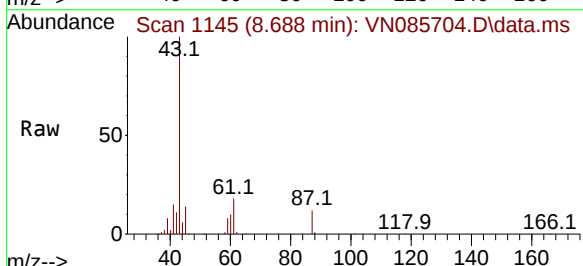
Tgt Ion: 43 Resp: 225725

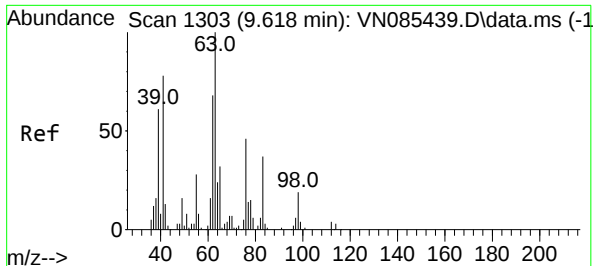
Ion Ratio Lower Upper

43 100

61 15.1 20.7 31.1#

87 10.0 9.8 14.8





#45

1,2-Dichloropropane

Concen: 0.756 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN085704.D

Acq: 07 Feb 2025 18:17

Instrument :

MSVOA_N

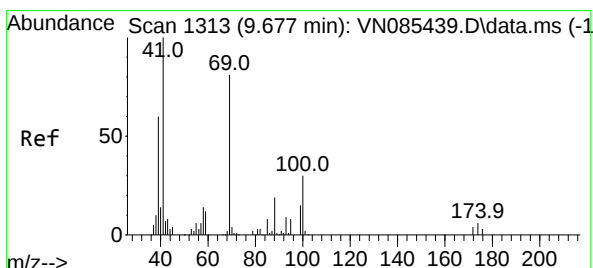
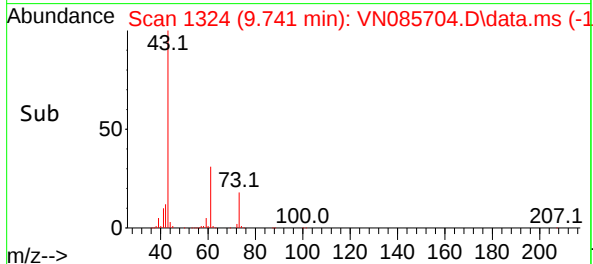
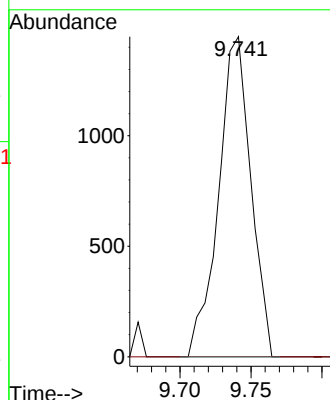
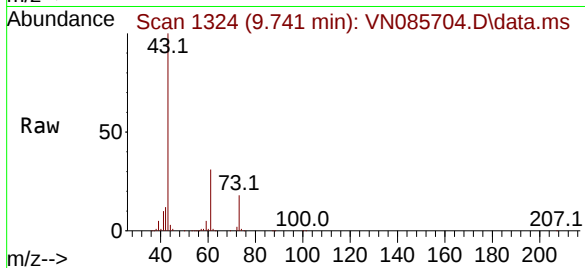
ClientSampleId :

Tgt Ion: 63 Resp: 2291

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#



#48

Methyl methacrylate

Concen: 57.780 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.064 min

Lab File: VN085704.D

Acq: 07 Feb 2025 18:17

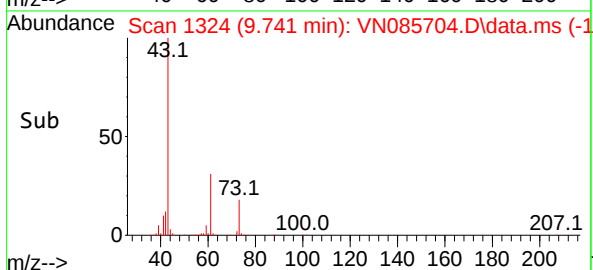
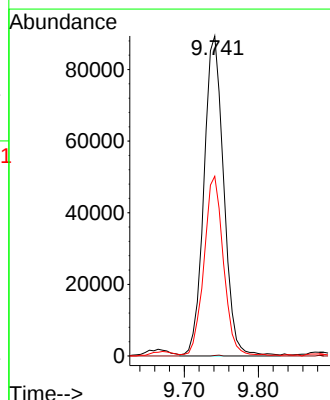
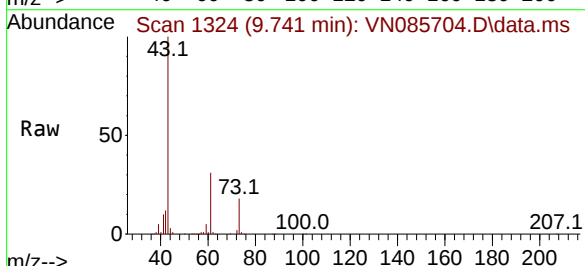
Tgt Ion: 41 Resp: 166013

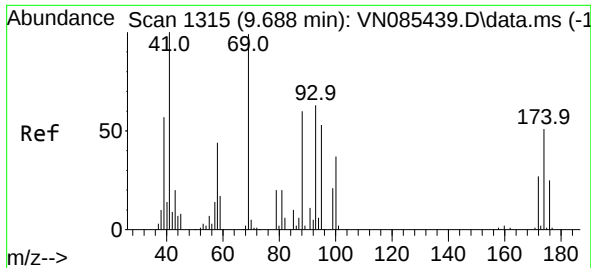
Ion Ratio Lower Upper

41 100

69 0.1 64.7 97.1#

39 54.8 49.0 73.6

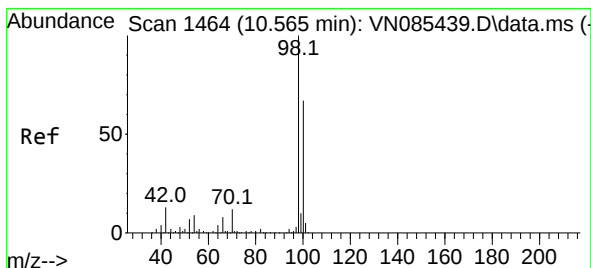
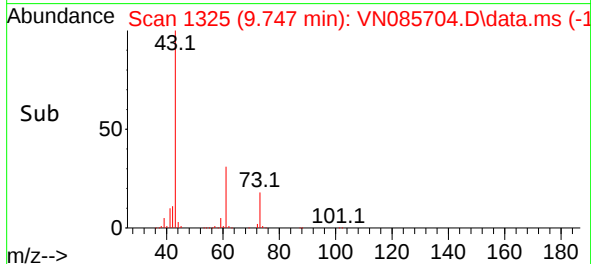
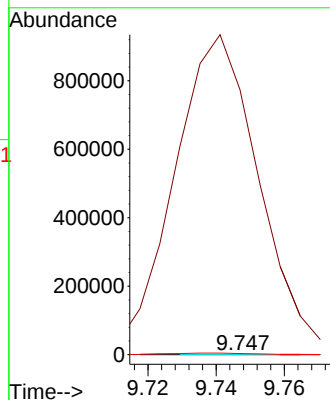
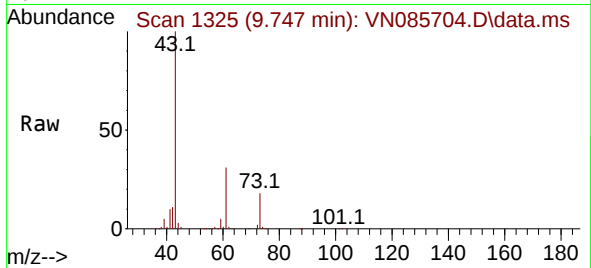




#49
1,4-Dioxane
Concen: 3.245 ug/l
RT: 9.747 min Scan# 1315
Delta R.T. 0.059 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

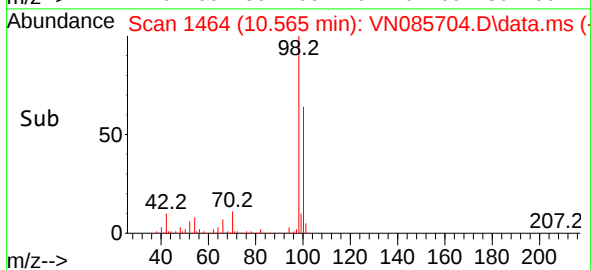
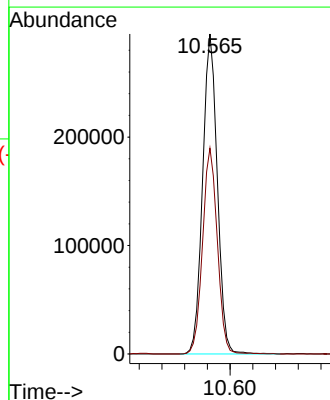
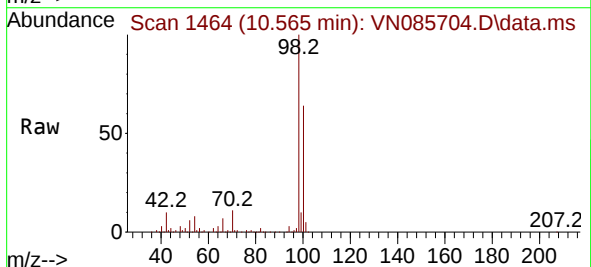
Instrument :
MSVOA_N
ClientSampleId :

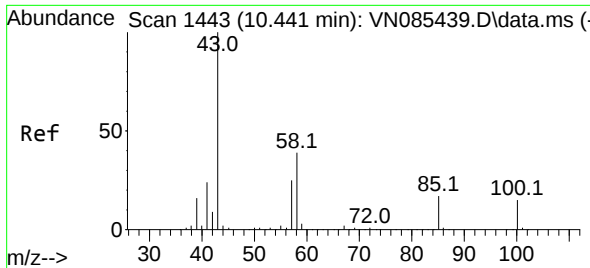
Tgt Ion: 88 Resp: 157
Ion Ratio Lower Upper
88 100
43 1041424.2 26.6 39.8#
58 5931.2 59.5 89.3#



#50
Toluene-d8
Concen: 52.908 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

Tgt Ion: 98 Resp: 528731
Ion Ratio Lower Upper
98 100
100 64.6 52.2 78.4

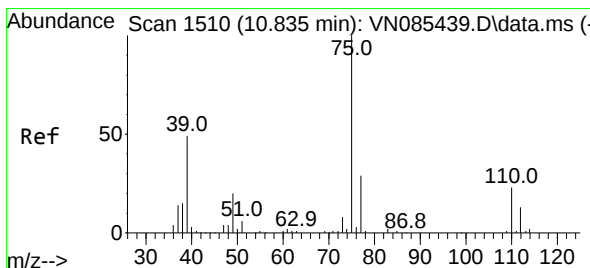
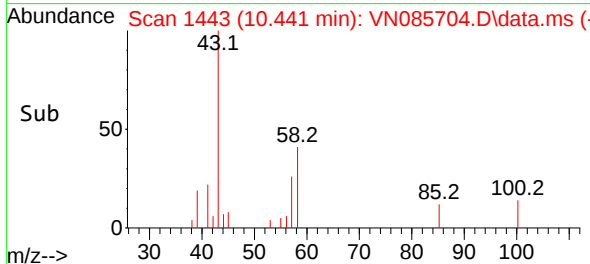
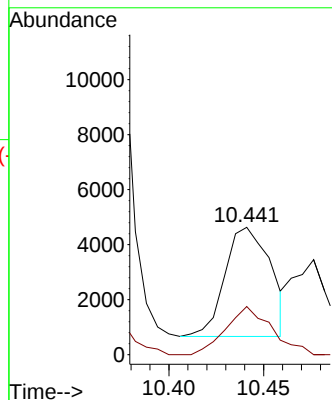
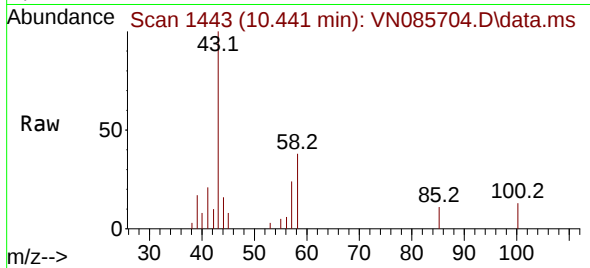




#51
4-Methyl-2-Pentanone
Concen: 1.791 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

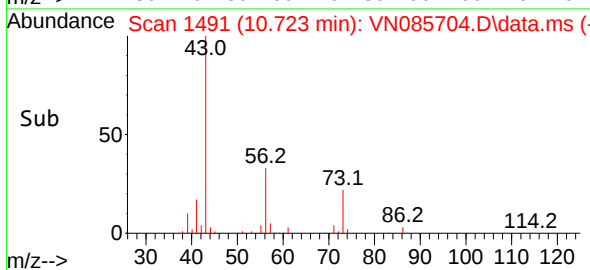
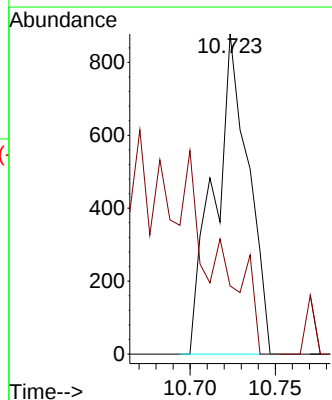
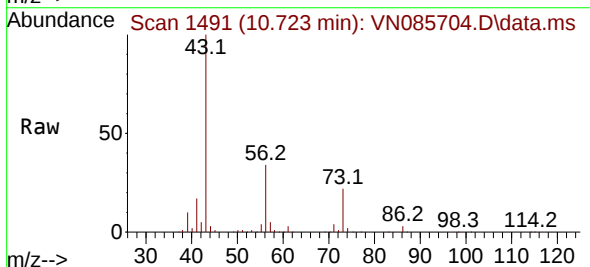
Instrument :
MSVOA_N
ClientSampleId :

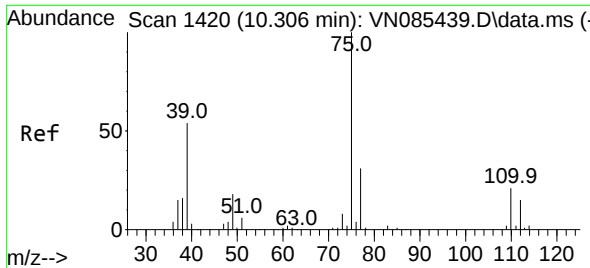
Tgt Ion: 43 Resp: 6636
Ion Ratio Lower Upper
43 100
58 44.3 30.5 45.7



#53
t-1,3-Dichloropropene
Concen: 0.290 ug/l
RT: 10.723 min Scan# 1491
Delta R.T. -0.112 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

Tgt Ion: 75 Resp: 1219
Ion Ratio Lower Upper
75 100
77 21.3 23.5 35.3#

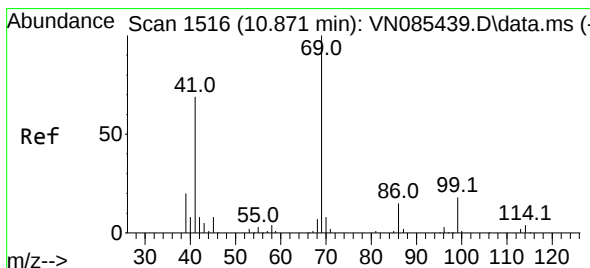
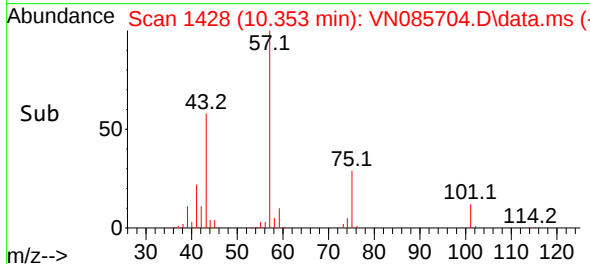
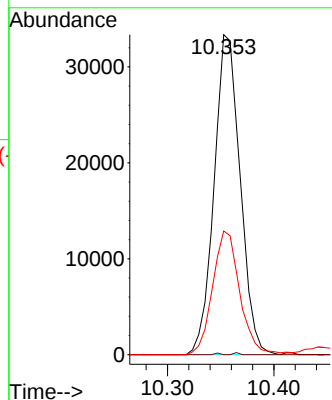
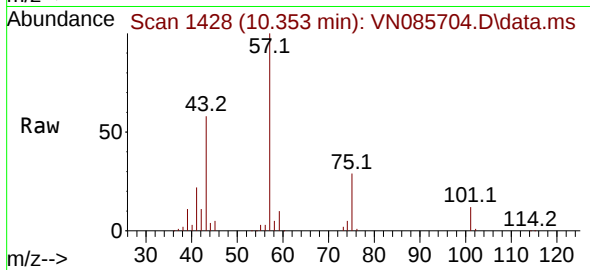




#54
 cis-1,3-Dichloropropene
 Concen: 12.593 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN085704.D
 Acq: 07 Feb 2025 18:17

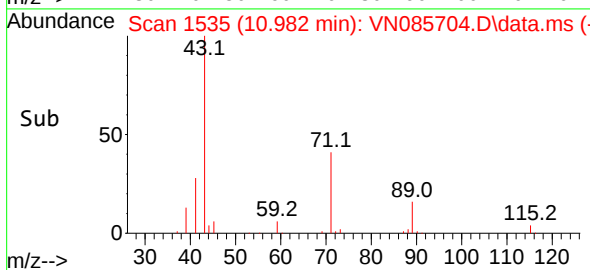
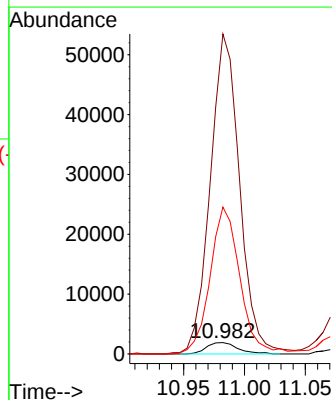
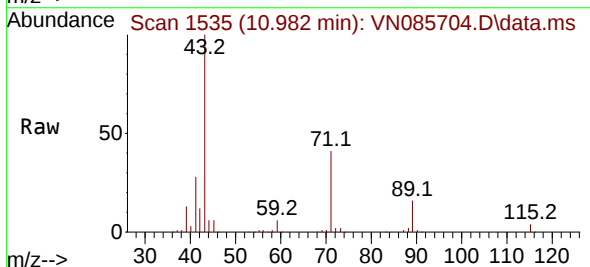
Instrument :
 MSVOA_N
 ClientSampleId :

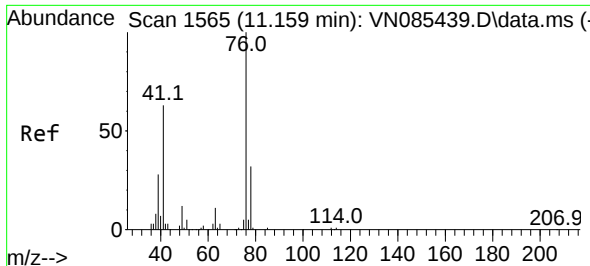
Tgt Ion: 75 Resp: 56616
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.4#
 39 38.7 43.1 64.7#



#56
 Ethyl methacrylate
 Concen: 2.646 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.111 min
 Lab File: VN085704.D
 Acq: 07 Feb 2025 18:17

Tgt Ion: 69 Resp: 3409
 Ion Ratio Lower Upper
 69 100
 41 2641.1 54.6 82.0#
 39 1228.9 32.4 48.6#





#57

1,3-Dichloropropane

Concen: 1.683 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN085704.D

Acq: 07 Feb 2025 18:17

Instrument :

MSVOA_N

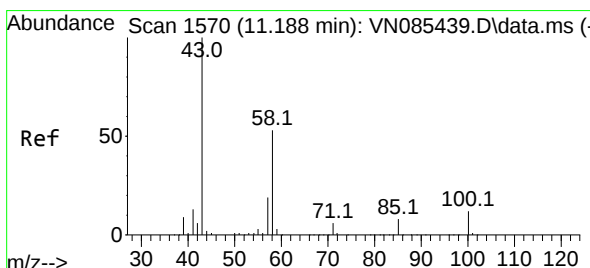
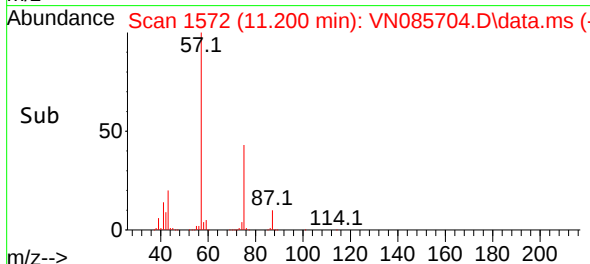
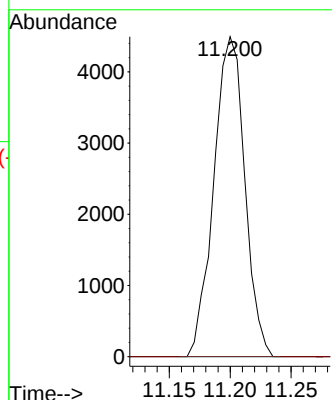
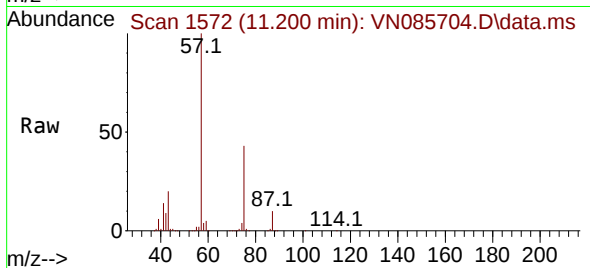
ClientSampleId :

Tgt Ion: 76 Resp: 7959

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 36.580 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.012 min

Lab File: VN085704.D

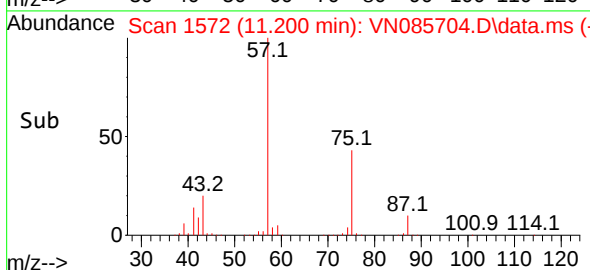
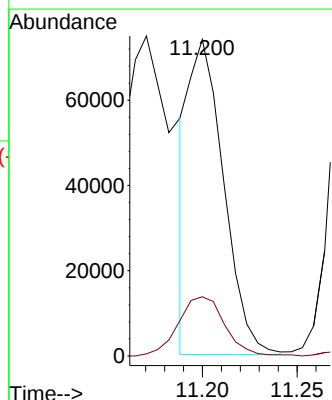
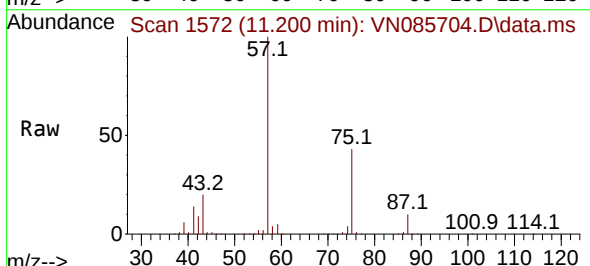
Acq: 07 Feb 2025 18:17

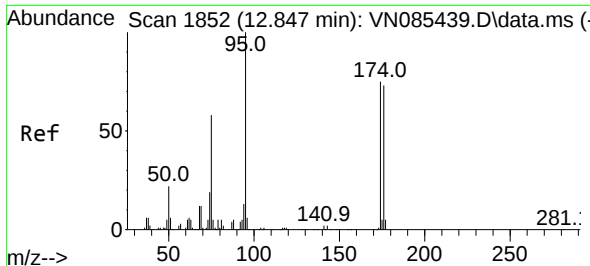
Tgt Ion: 43 Resp: 95357

Ion Ratio Lower Upper

43 100

58 24.9 26.2 78.6#

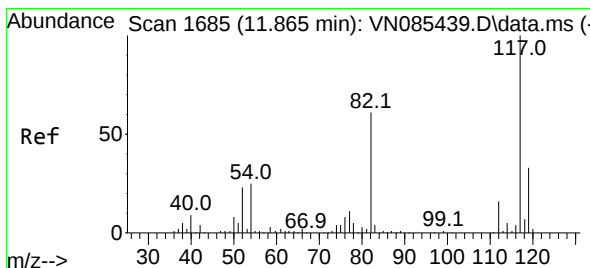
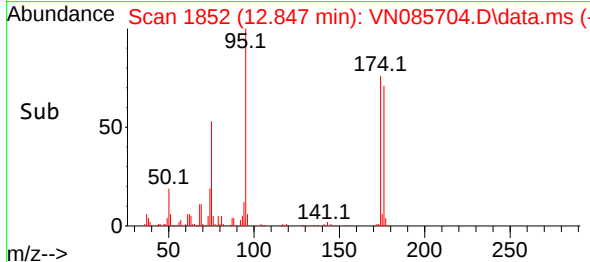
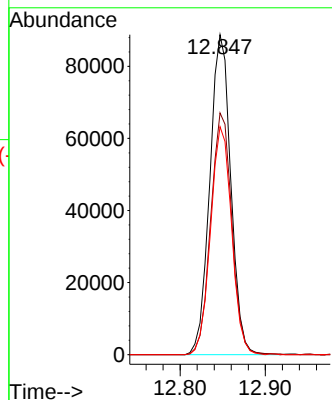
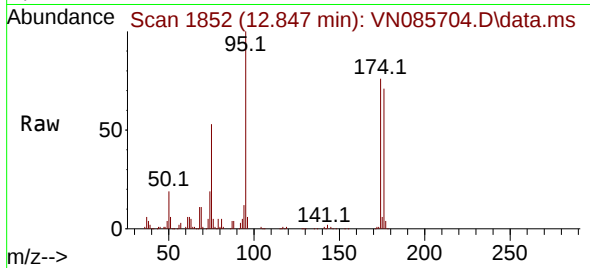




#62
4-Bromofluorobenzene
Concen: 44.394 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

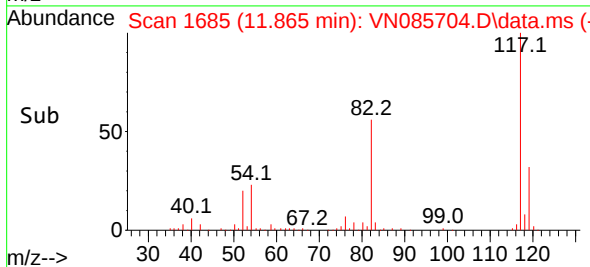
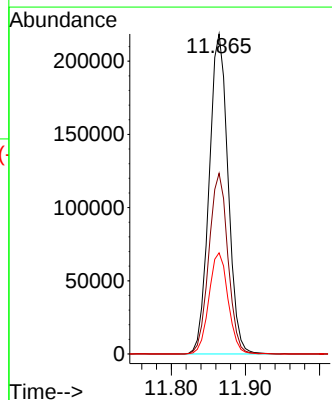
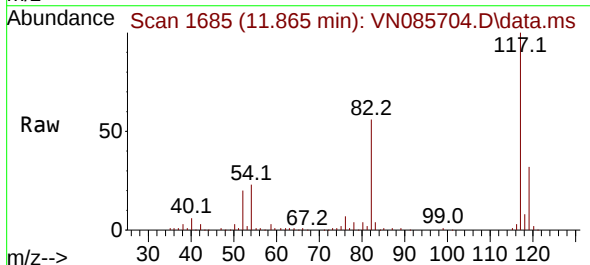
Instrument :
MSVOA_N
ClientSampleId :

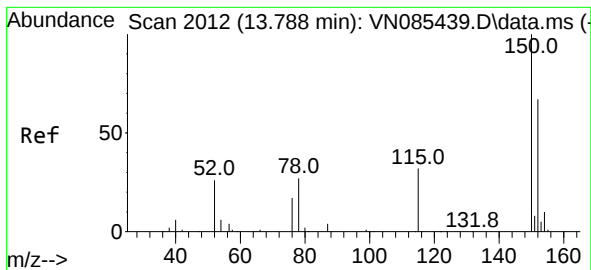
Tgt Ion: 95 Resp: 151759
Ion Ratio Lower Upper
95 100
174 76.2 0.0 145.0
176 71.3 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

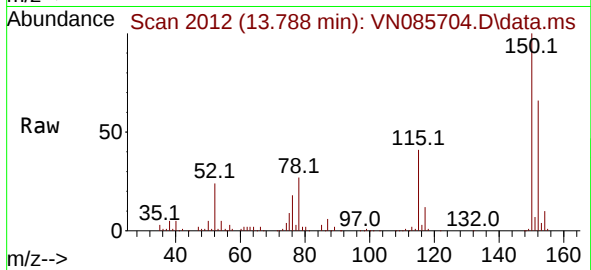
Tgt Ion: 117 Resp: 386691
Ion Ratio Lower Upper
117 100
82 56.4 48.6 72.8
119 31.6 26.6 39.8





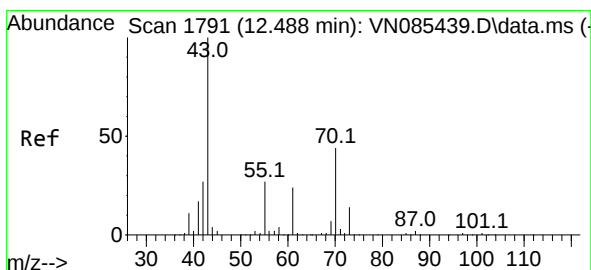
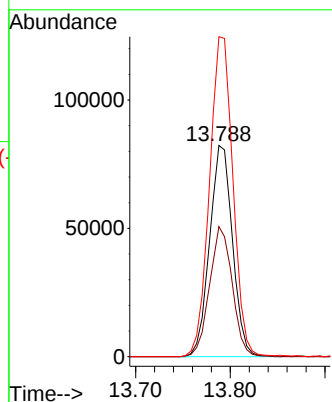
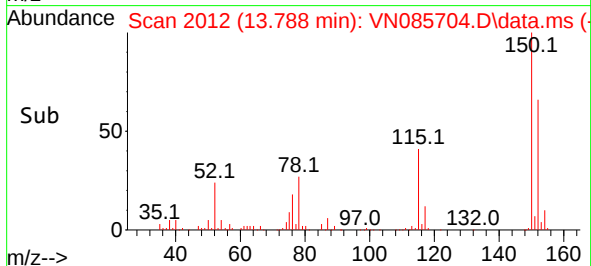
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN085704.D
 Acq: 07 Feb 2025 18:17

Instrument :
 MSVOA_N
 ClientSampleId :

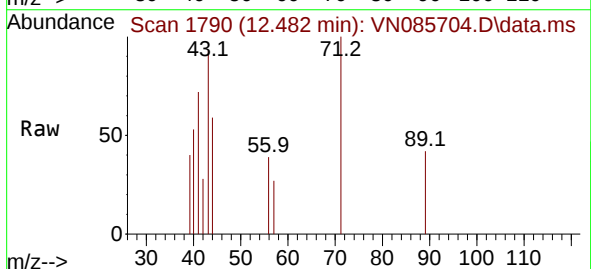


Tgt Ion:152 Resp: 137888

Ion	Ratio	Lower	Upper
152	100		
115	61.0	31.1	93.3
150	155.5	0.0	343.6

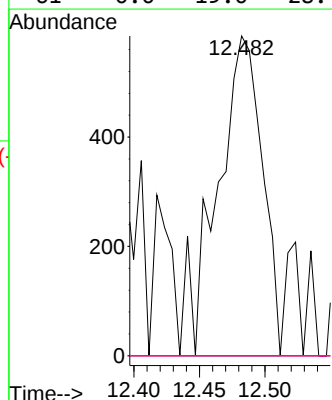
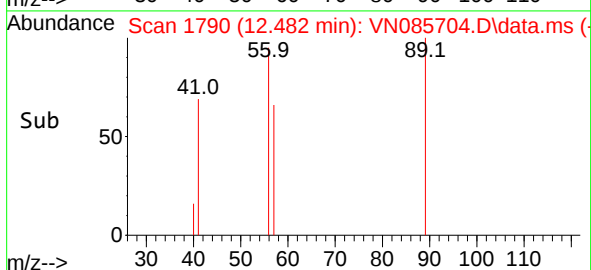


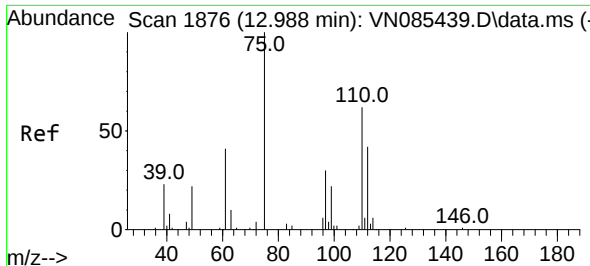
#74
 N-ethyl acetate
 Concen: 0.338 ug/l
 RT: 12.482 min Scan# 1790
 Delta R.T. -0.006 min
 Lab File: VN085704.D
 Acq: 07 Feb 2025 18:17



Tgt Ion: 43 Resp: 1415

Ion	Ratio	Lower	Upper
43	100		
70	0.0	34.0	51.0#
55	0.0	21.4	32.2#
61	0.0	19.0	28.4#

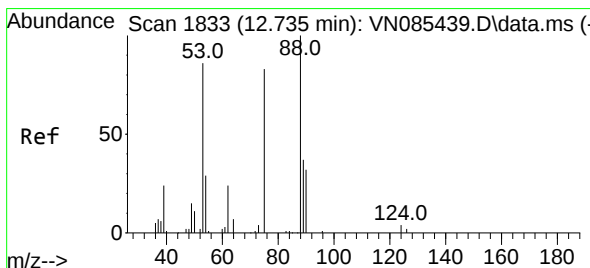
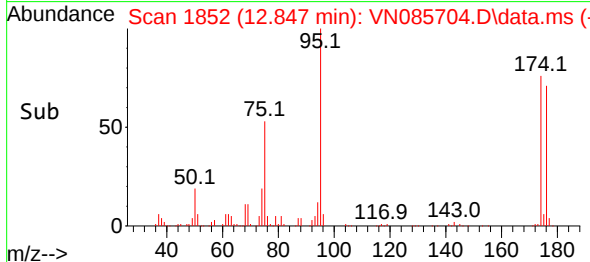
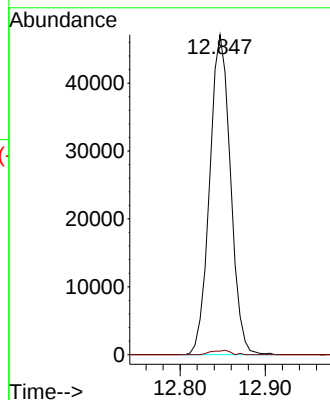
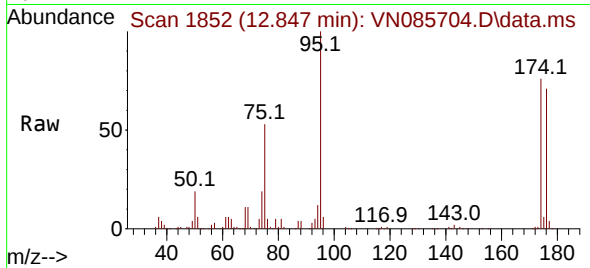




#76
1,2,3-Trichloropropane
Concen: 28.584 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 80110
Ion Ratio Lower Upper
75 100
77 1.3 109.7 329.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 77.336 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085704.D
Acq: 07 Feb 2025 18:17

Tgt Ion: 75 Resp: 80110
Ion Ratio Lower Upper
75 100
53 0.1 95.6 143.4#
89 0.0 37.0 55.6#

