

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020325\
 Data File : VN085625.D
 Acq On : 03 Feb 2025 16:24
 Operator : JC\MD
 Sample : PB166424ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 04 00:59:12 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

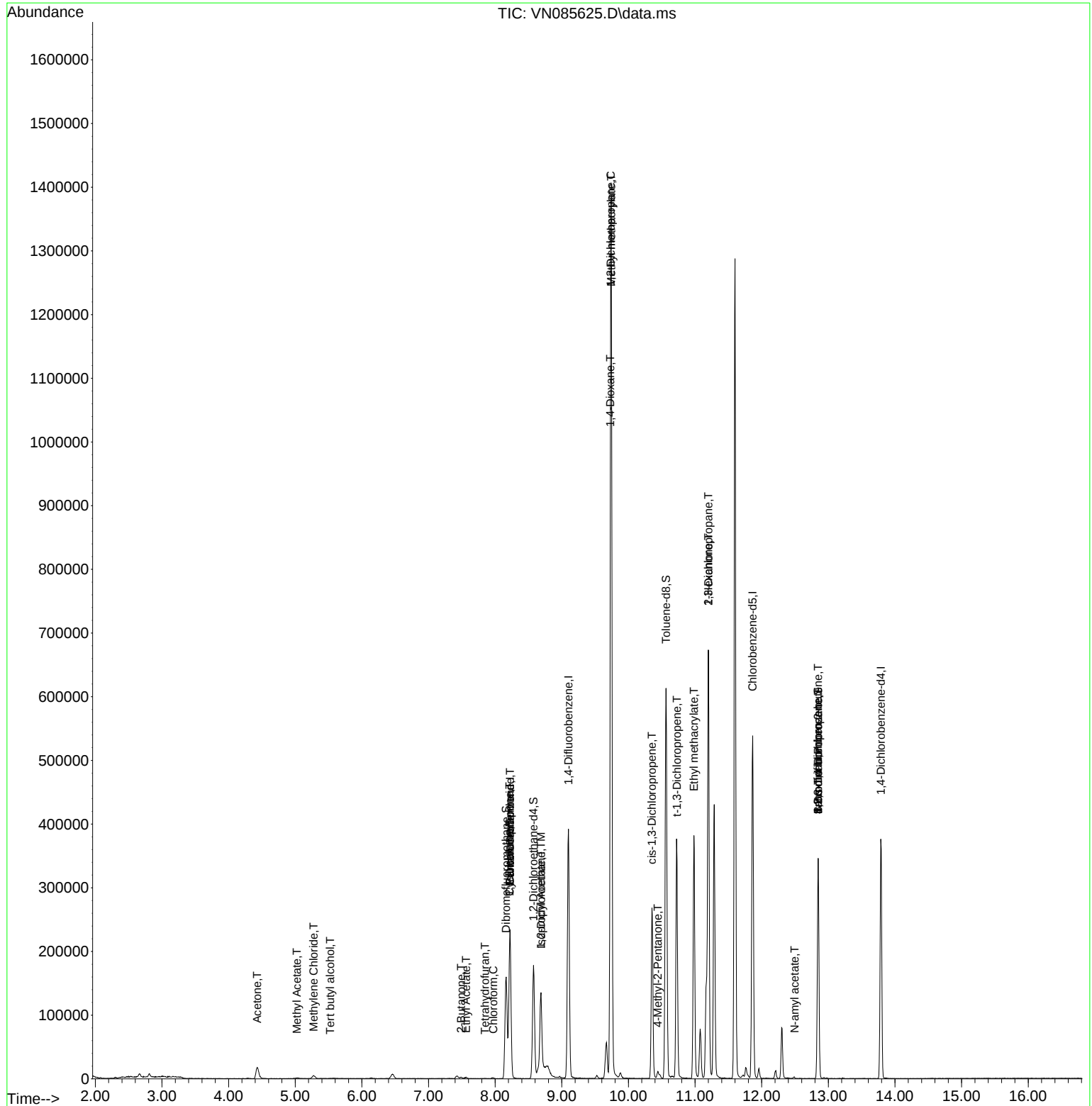
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

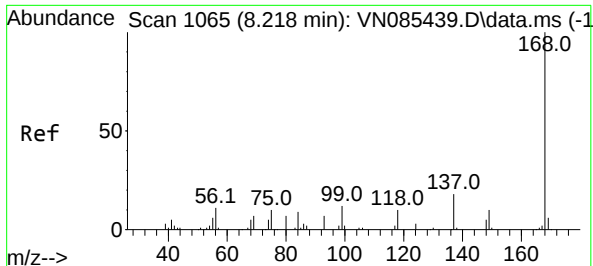
Internal Standards						
1) Pentafluorobenzene	8.224	168	158280	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	329451	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	305295	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	100525	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	139263	54.507	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.020%			
35) Dibromofluoromethane	8.165	113	115636	50.594	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.180%			
50) Toluene-d8	10.565	98	431145	53.093	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.180%			
62) 4-Bromofluorobenzene	12.847	95	113603	40.896	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 81.800%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.524	59	77	0.263	ug/l #	71
16) Acetone	4.430	43	34319	41.572	ug/l	97
18) Methyl Acetate	5.024	43	2595	1.034	ug/l #	84
20) Methylene Chloride	5.277	84	3802	1.860	ug/l	96
25) 2-Butanone	7.488	43	3841	3.162	ug/l #	72
29) Tetrahydrofuran	7.847	42	470	0.610	ug/l #	34
30) Chloroform	7.971	83	1800	0.467	ug/l #	74
31) Cyclohexane	8.218	56	4389	1.354	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	14979	4.670	ug/l #	51
37) Ethyl Acetate	7.565	43	3611	1.115	ug/l #	82
38) Carbon Tetrachloride	8.224	117	17820	4.852	ug/l #	17
42) 1,2-Dichloroethane	8.688	62	974	0.268	ug/l #	76
43) Isopropyl Acetate	8.688	43	157525	30.363	ug/l #	88
45) 1,2-Dichloropropane	9.735	63	1830	0.743	ug/l #	43
48) Methyl methacrylate	9.741	41	127049	54.417	ug/l #	47
49) 1,4-Dioxane	9.729	88	59	1.501	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	11462	3.807	ug/l #	74
53) t-1,3-Dichloropropene	10.729	75	992	0.290	ug/l #	45
54) cis-1,3-Dichloropropene	10.353	75	46618	12.761	ug/l #	66
56) Ethyl methacrylate	10.982	69	2262	2.515	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	7229	1.881	ug/l #	43
59) 2-Hexanone	11.200	43	91410	43.152	ug/l #	56
71) Bromoform	12.847	173	989	0.563	ug/l #	1
74) N-amyl acetate	12.494	43	1024	0.336	ug/l #	47
76) 1,2,3-Trichloropropane	12.847	75	60726	29.721	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	60726	80.413	ug/l #	3

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

Instrument :
MSVOA_N
ClientSampleId :

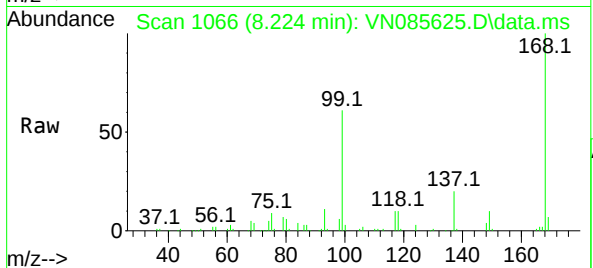
Instrument :
MSVOA_N
ClientSampleId :



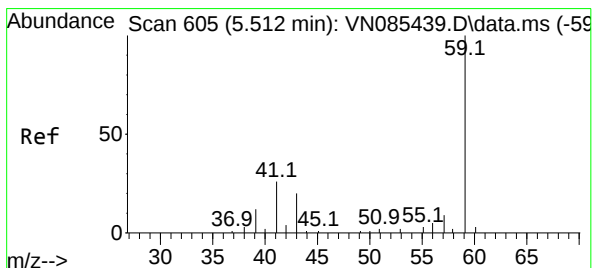
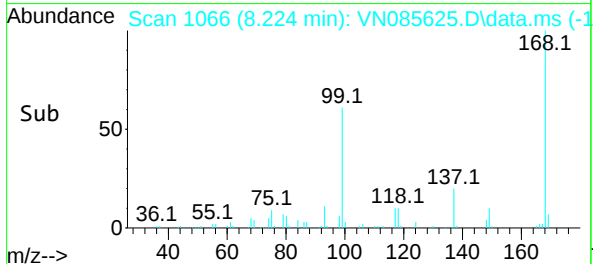
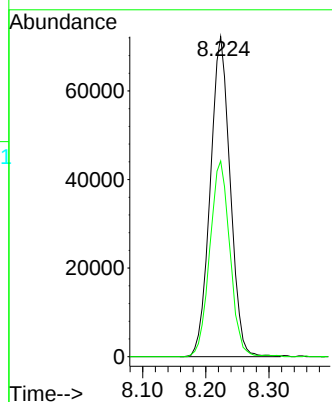


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

Instrument :
MSVOA_N
ClientSampleId :

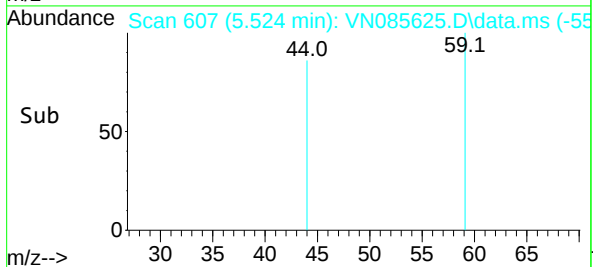
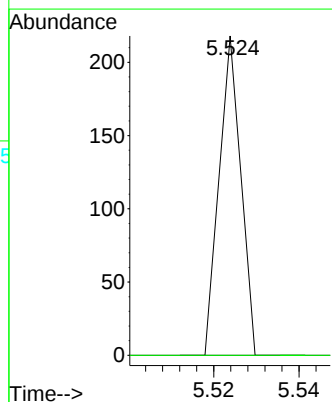
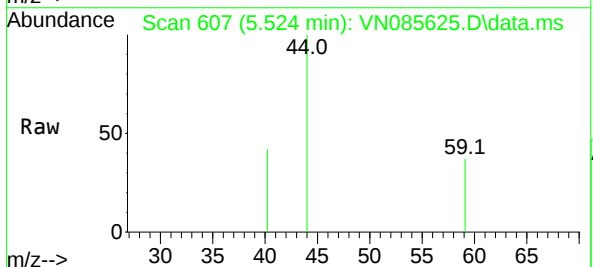


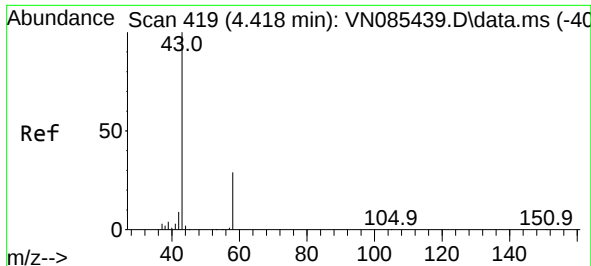
Tgt Ion:168 Resp: 158280
Ion Ratio Lower Upper
168 100
99 61.1 53.6 80.4



#11
Tert butyl alcohol
Concen: 0.263 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

Tgt Ion: 59 Resp: 77
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

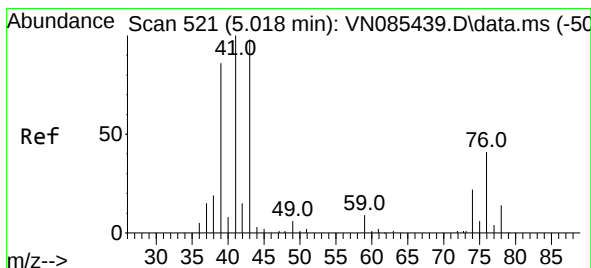
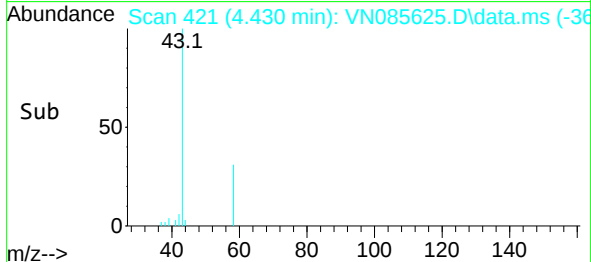
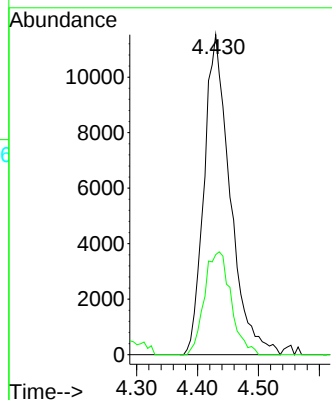
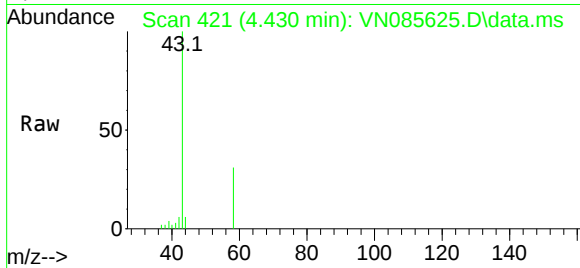




#16
Acetone
Concen: 41.572 ug/l
RT: 4.430 min Scan# 419
Delta R.T. 0.012 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

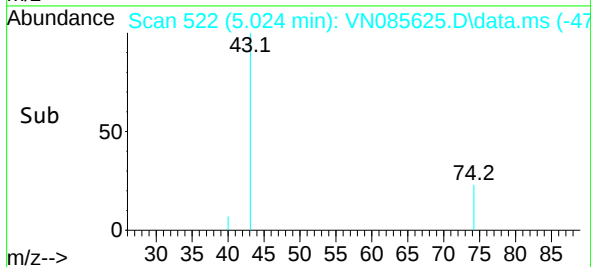
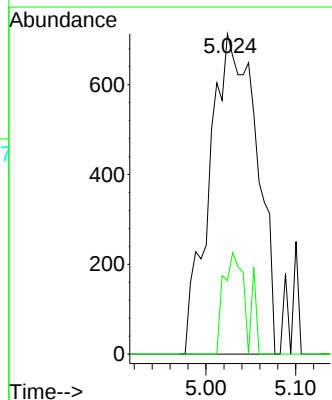
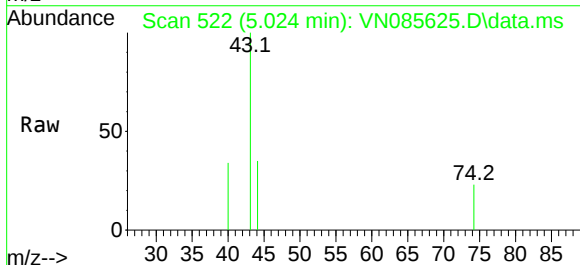
Instrument :
MSVOA_N
ClientSampleId :

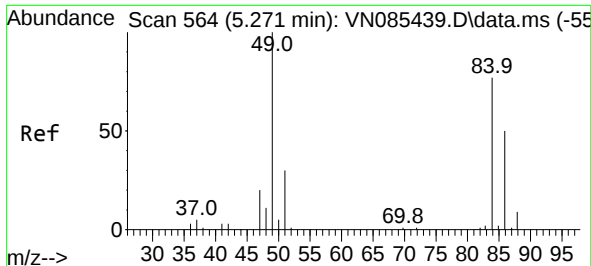
Tgt Ion: 43 Resp: 34319
Ion Ratio Lower Upper
43 100
58 31.2 23.8 35.6



#18
Methyl Acetate
Concen: 1.034 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

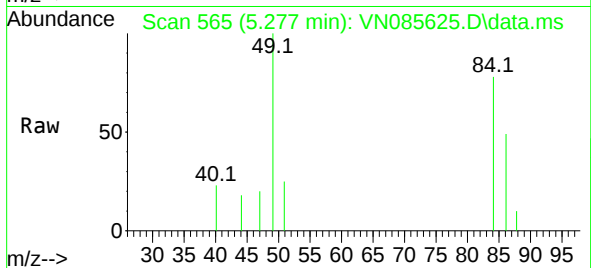
Tgt Ion: 43 Resp: 2595
Ion Ratio Lower Upper
43 100
74 15.5 18.6 28.0#



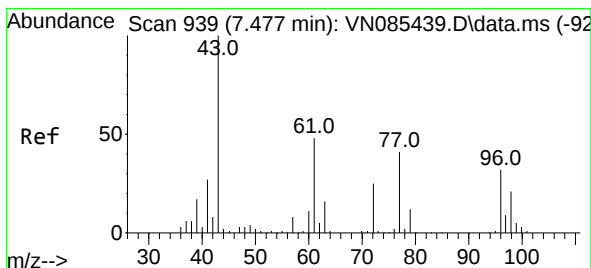
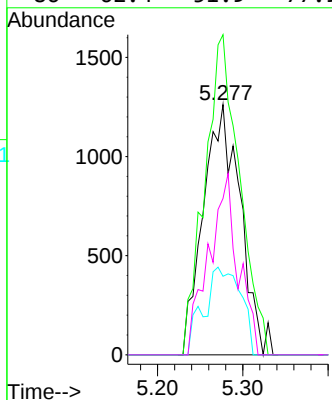


#20
Methylene Chloride
Concen: 1.860 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

Instrument :
MSVOA_N
ClientSampleId :

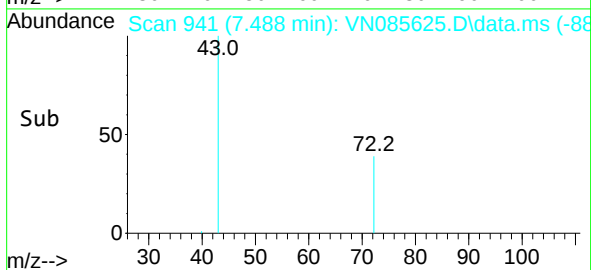
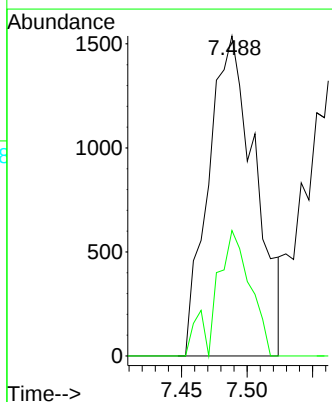
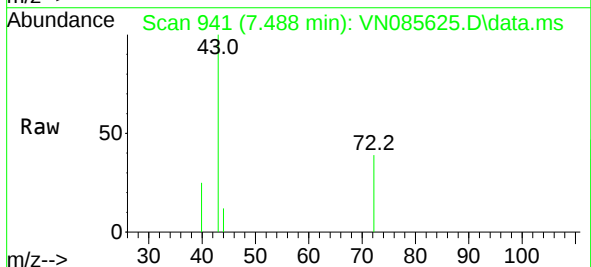


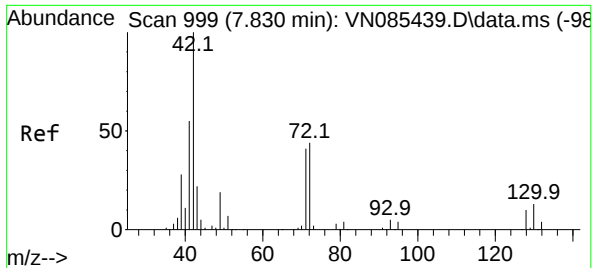
Tgt Ion: 84	Resp: 3802
Ion Ratio	Lower Upper
84 100	
49 128.0	104.1 156.1
51 31.4	31.0 46.4
86 62.4	51.9 77.9



#25
2-Butanone
Concen: 3.162 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

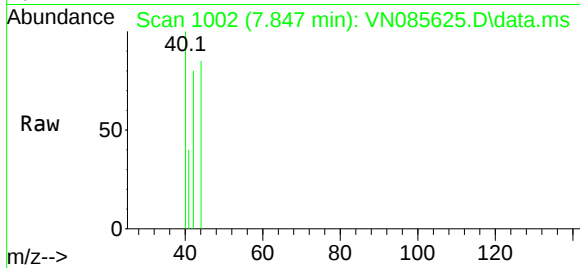
Tgt Ion: 43	Resp: 3841		
Ion Ratio	Lower	Upper	
43 100			
72 39.2	20.2	30.4#	



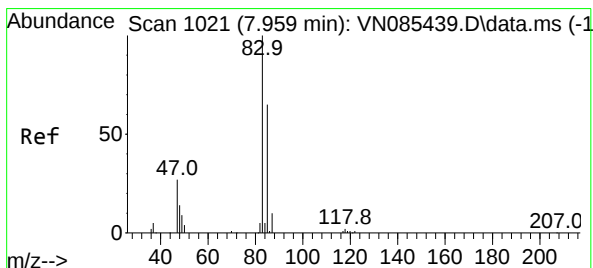
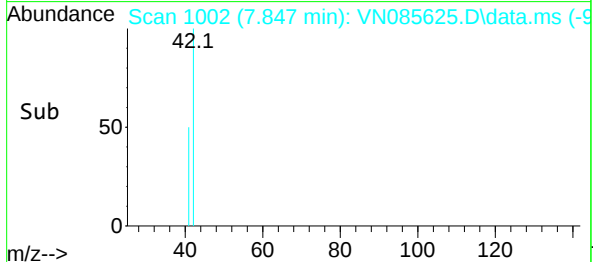
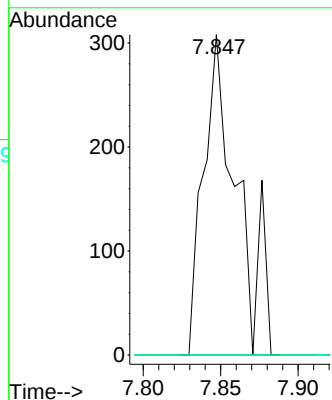


#29
Tetrahydrofuran
Concen: 0.610 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.018 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

Instrument :
MSVOA_N
ClientSampleId :

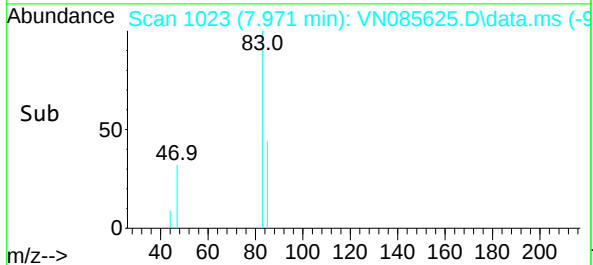
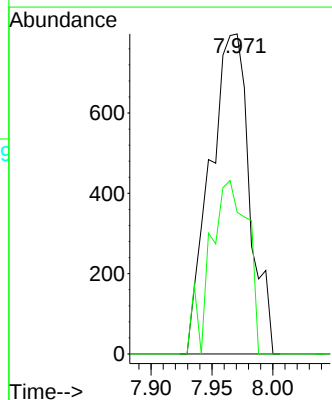
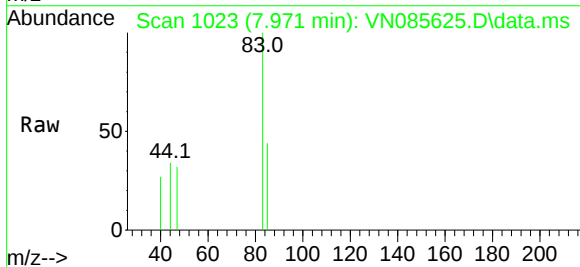


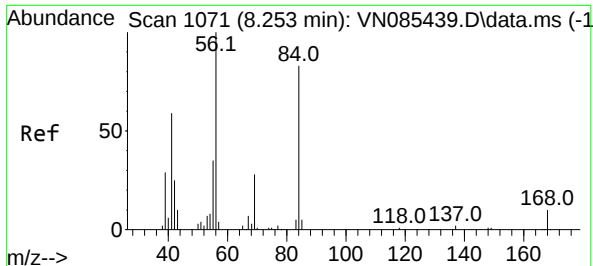
Tgt Ion: 42 Resp: 470
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 0.0 32.5 48.7#



#30
Chloroform
Concen: 0.467 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.012 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

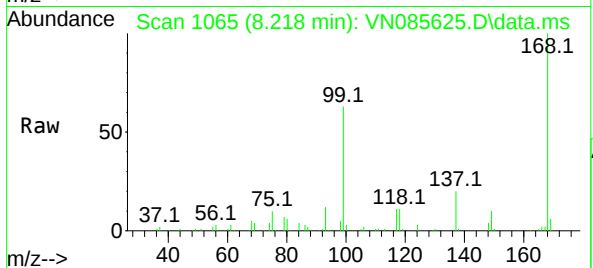
Tgt Ion: 83 Resp: 1800
Ion Ratio Lower Upper
83 100
85 44.3 51.8 77.6#



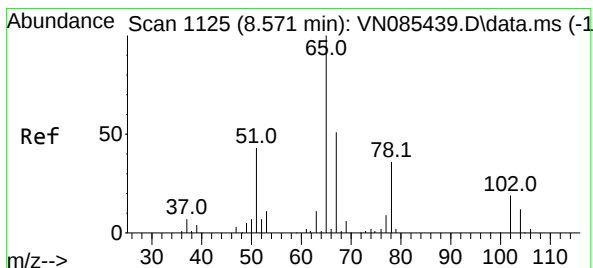
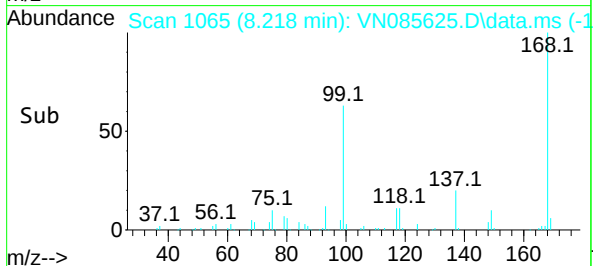
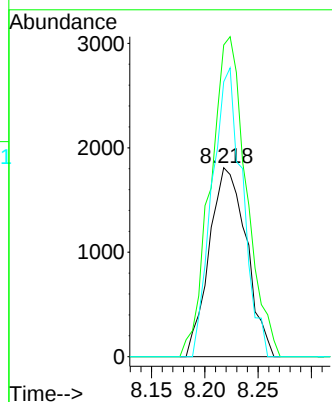


#31
Cyclohexane
Concen: 1.354 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

Instrument :
MSVOA_N
ClientSampleId :

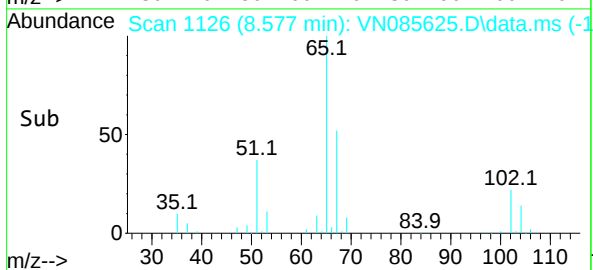
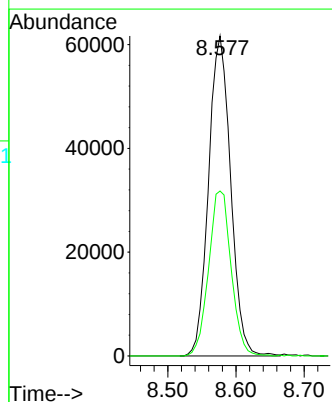
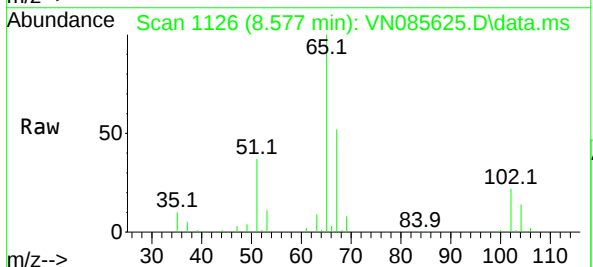


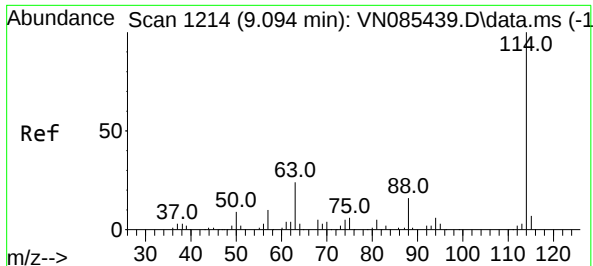
Tgt Ion: 56 Resp: 4389
Ion Ratio Lower Upper
56 100
69 164.9 22.2 33.4#
84 145.4 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 54.507 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

Tgt Ion: 65 Resp: 139263
Ion Ratio Lower Upper
65 100
67 52.5 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: VN085625.D

Acq: 03 Feb 2025 16:24

Instrument :

MSVOA_N

ClientSampleId :

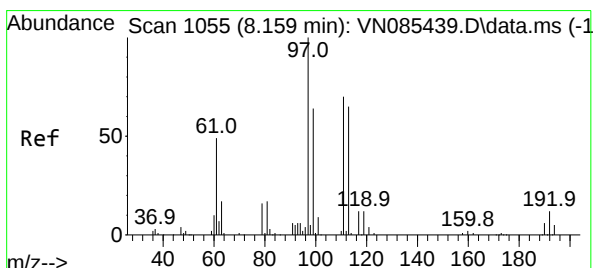
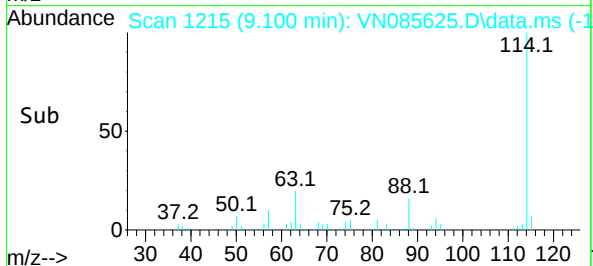
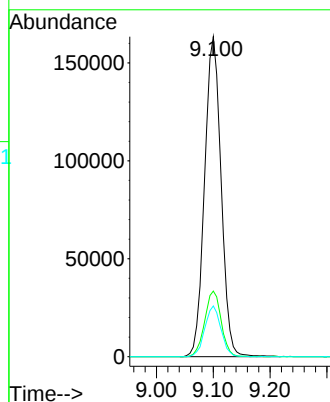
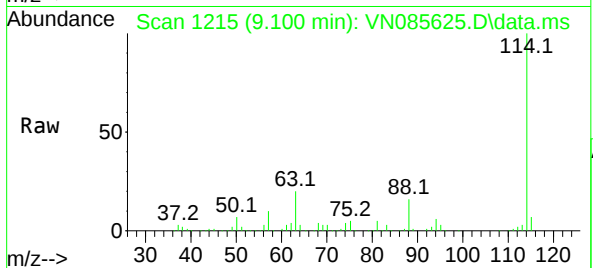
Tgt Ion:114 Resp: 329451

Ion Ratio Lower Upper

114 100

63 20.5 0.0 47.6

88 15.8 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: VN085625.D

Acq: 03 Feb 2025 16:24

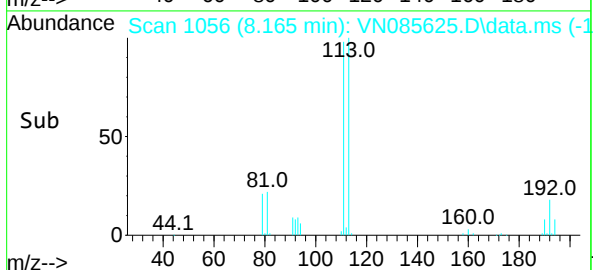
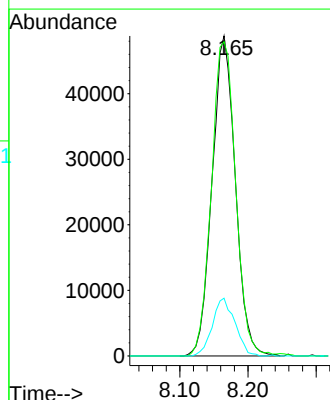
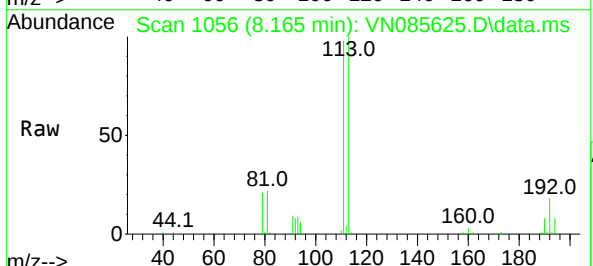
Tgt Ion:113 Resp: 115636

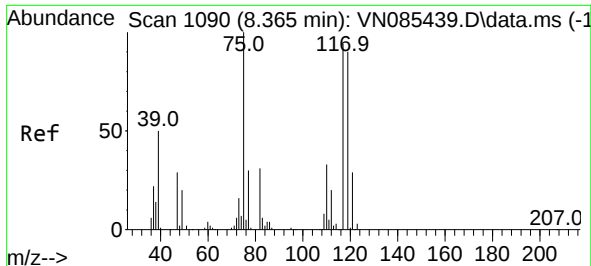
Ion Ratio Lower Upper

113 100

111 102.3 82.7 124.1

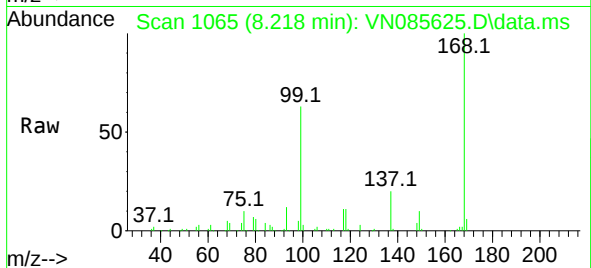
192 17.6 14.3 21.5



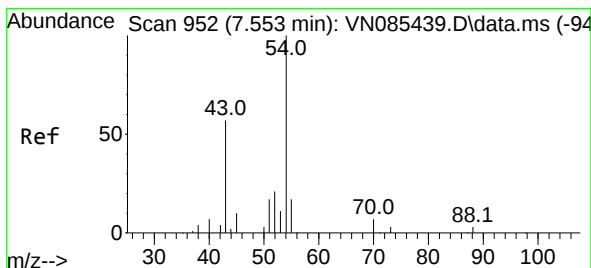
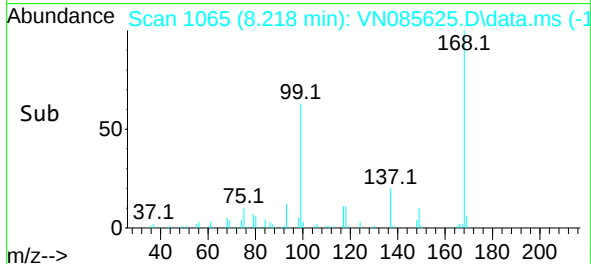
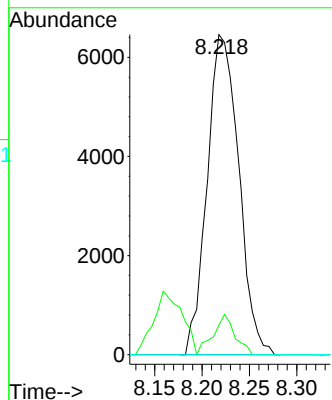


#36
1,1-Dichloropropene
Concen: 4.670 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

Instrument :
MSVOA_N
ClientSampleId :

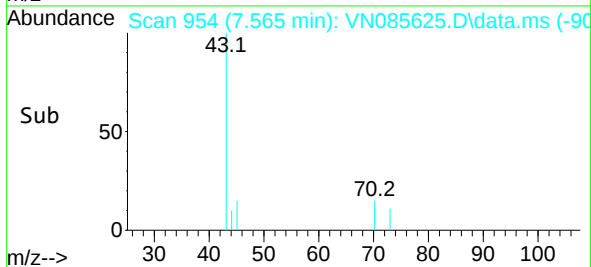
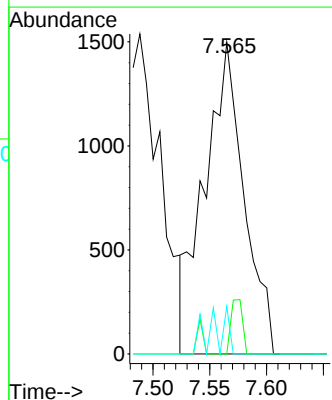
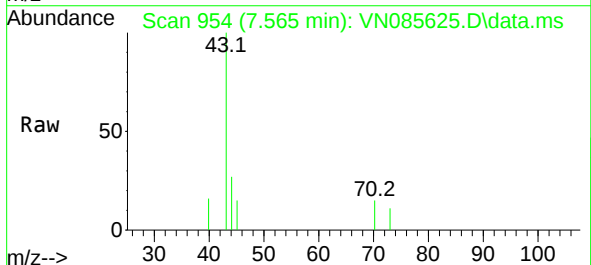


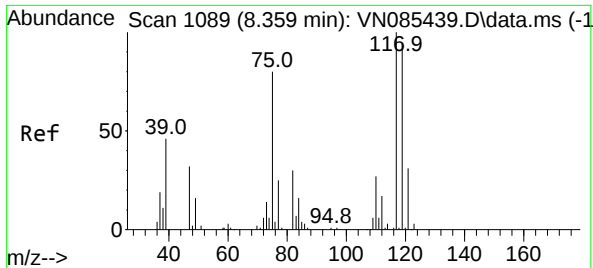
Tgt Ion: 75 Resp: 14979
Ion Ratio Lower Upper
75 100
110 8.6 16.5 49.5#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 1.115 ug/l
RT: 7.565 min Scan# 954
Delta R.T. 0.012 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

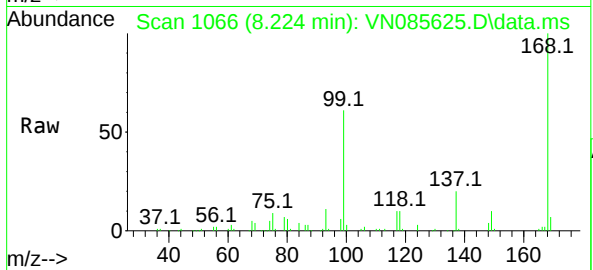
Tgt Ion: 43 Resp: 3611
Ion Ratio Lower Upper
43 100
61 5.1 10.9 16.3#
70 4.4 7.5 11.3#



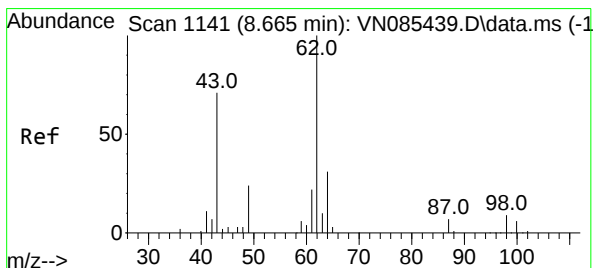
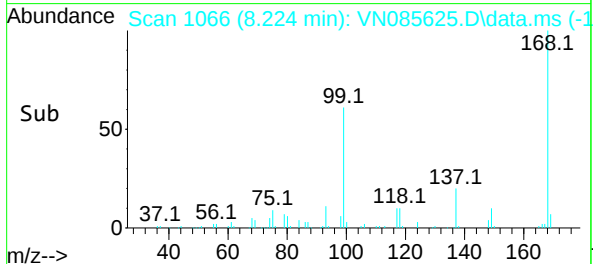
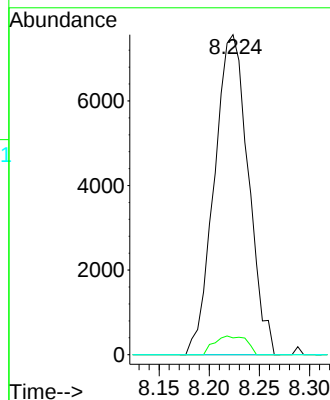


#38
Carbon Tetrachloride
Concen: 4.852 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

Instrument :
MSVOA_N
ClientSampleId :

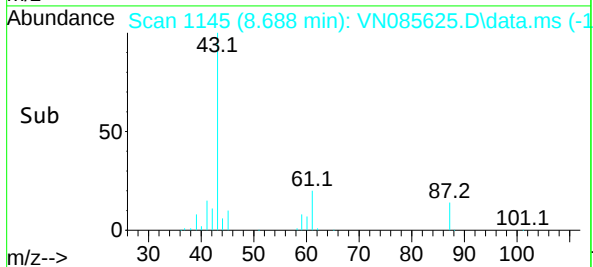
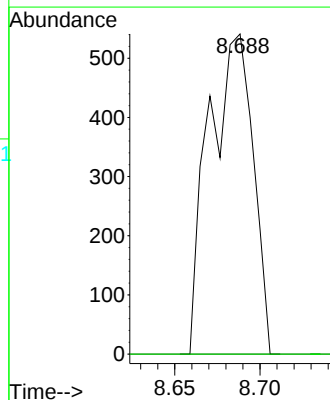
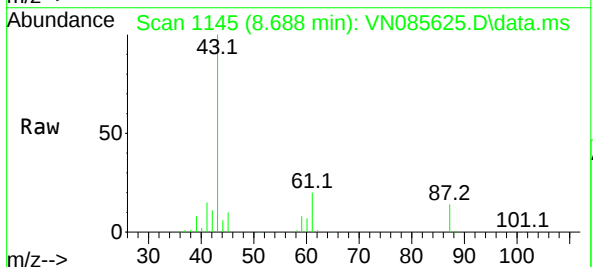


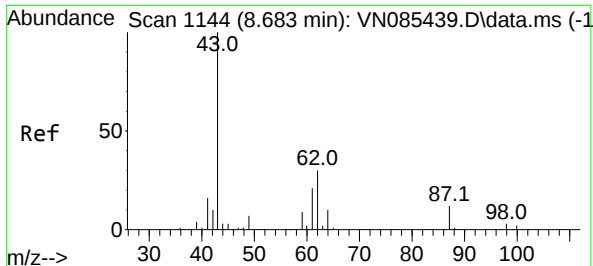
Tgt Ion:117 Resp: 17820
Ion Ratio Lower Upper
117 100
119 5.3 75.4 113.2#
121 0.0 24.6 37.0#



#42
1,2-Dichloroethane
Concen: 0.268 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.023 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

Tgt Ion: 62 Resp: 974
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.0

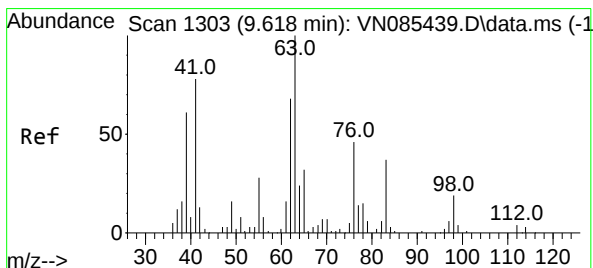
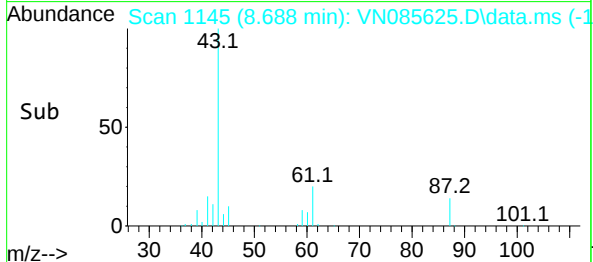
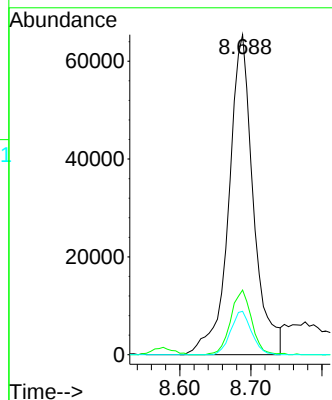
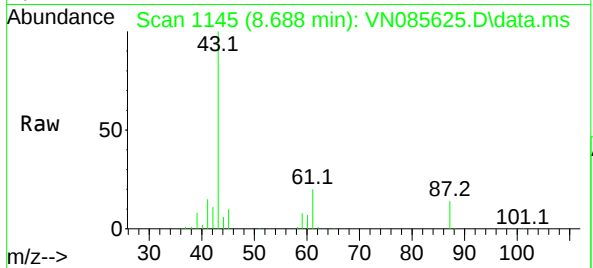




#43
Isopropyl Acetate
Concen: 30.363 ug/l
RT: 8.688 min Scan# 1144
Delta R.T. 0.006 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

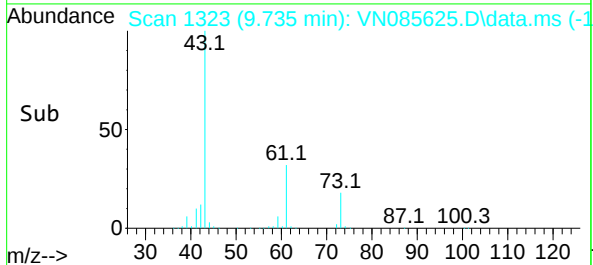
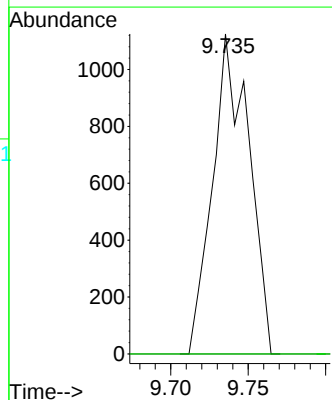
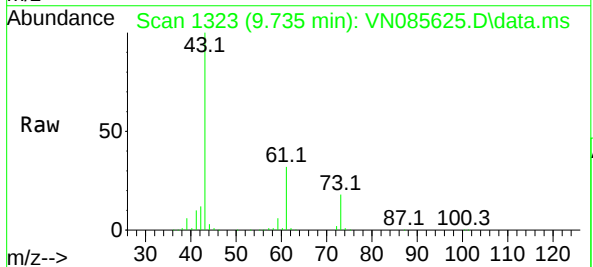
Instrument :
MSVOA_N
ClientSampleId :

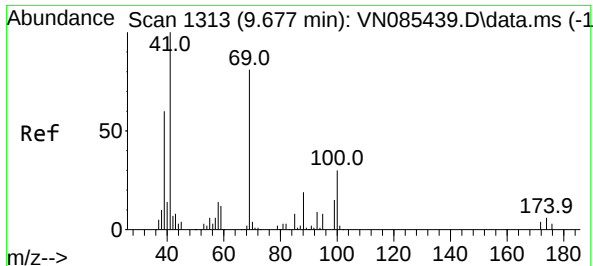
Tgt Ion: 43 Resp: 157525
Ion Ratio Lower Upper
43 100
61 17.2 20.7 31.1#
87 11.4 9.8 14.8



#45
1,2-Dichloropropane
Concen: 0.743 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

Tgt Ion: 63 Resp: 1830
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#





#48

Methyl methacrylate

Concen: 54.417 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.064 min

Lab File: VN085625.D

Acq: 03 Feb 2025 16:24

Instrument :

MSVOA_N

ClientSampleId :

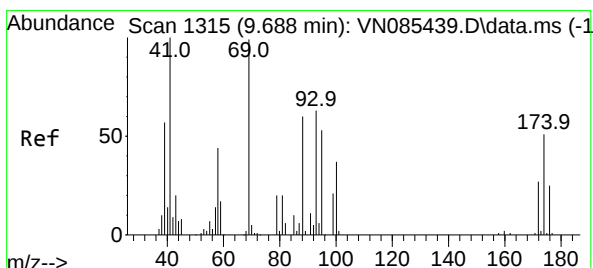
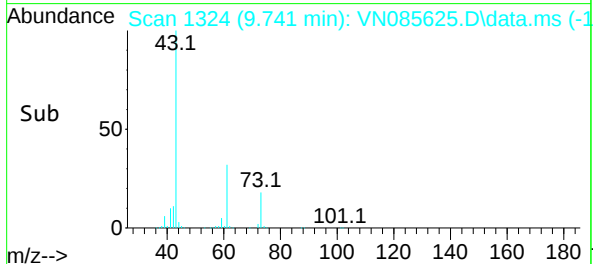
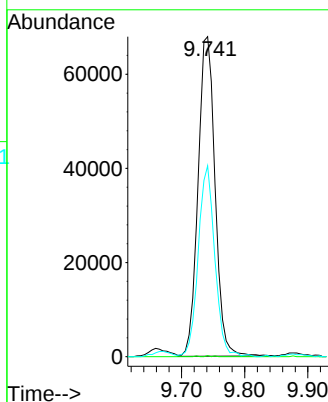
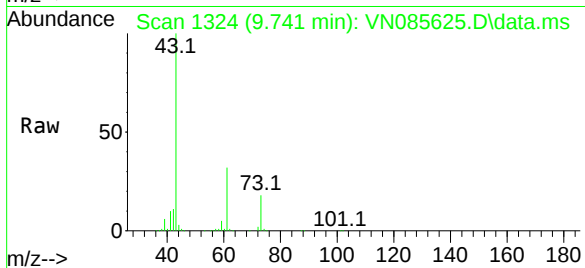
Tgt Ion: 41 Resp: 127049

Ion Ratio Lower Upper

41 100

69 0.1 64.7 97.1#

39 58.3 49.0 73.6



#49

1,4-Dioxane

Concen: 1.501 ug/l

RT: 9.729 min Scan# 1322

Delta R.T. 0.041 min

Lab File: VN085625.D

Acq: 03 Feb 2025 16:24

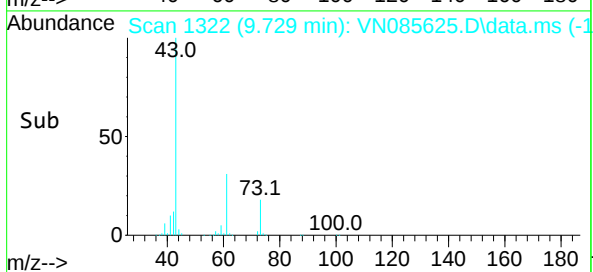
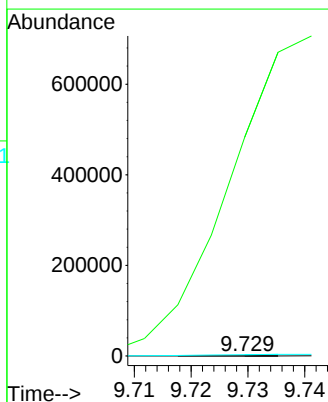
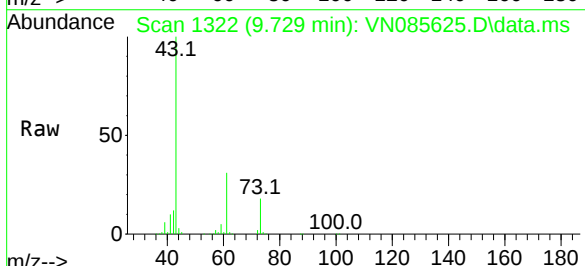
Tgt Ion: 88 Resp: 59

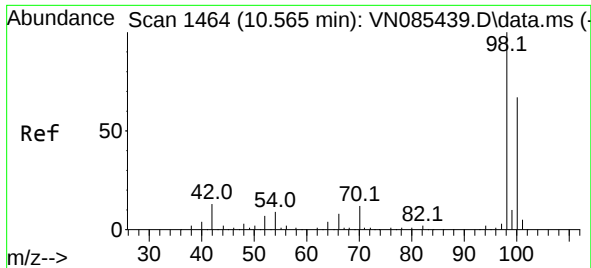
Ion Ratio Lower Upper

88 100

43 2131194.9 26.6 39.8#

58 12388.1 59.5 89.3#

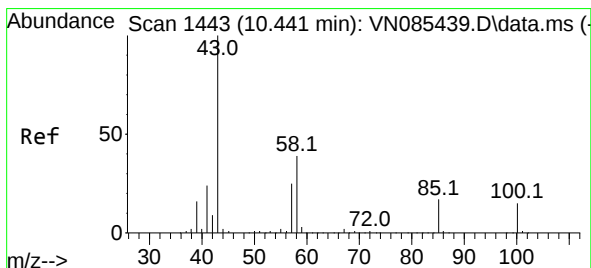
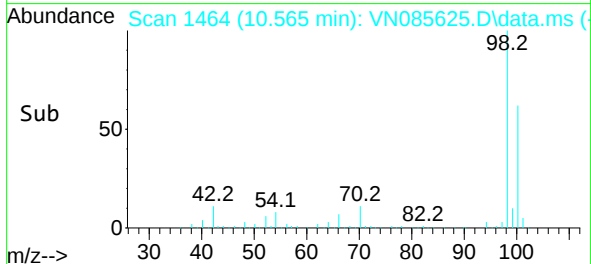
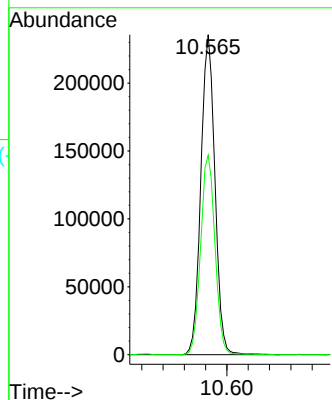
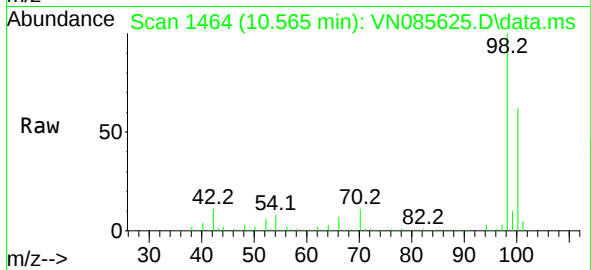




#50
Toluene-d8
Concen: 53.093 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

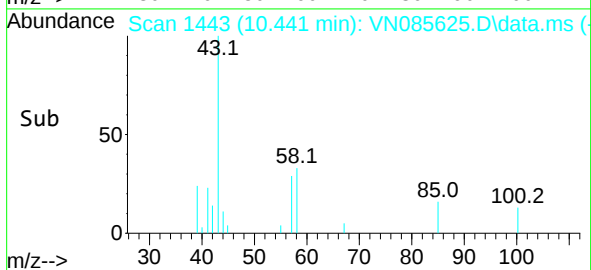
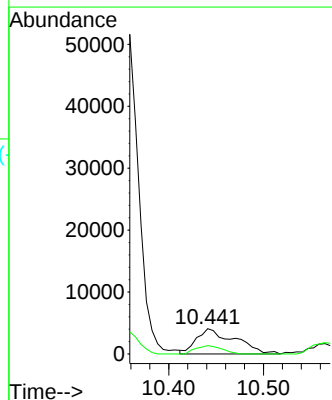
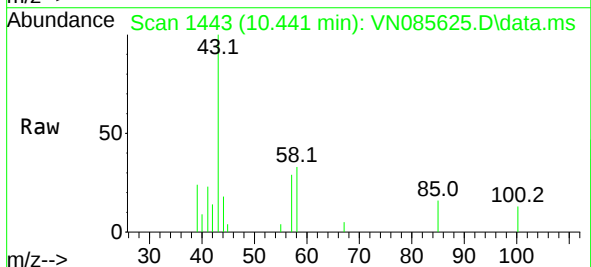
Instrument :
MSVOA_N
ClientSampleId :

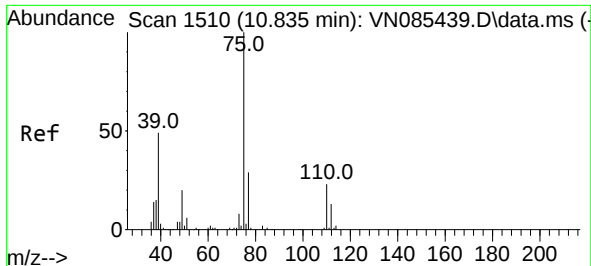
Tgt Ion: 98 Resp: 431145
Ion Ratio Lower Upper
98 100
100 63.6 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 3.807 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

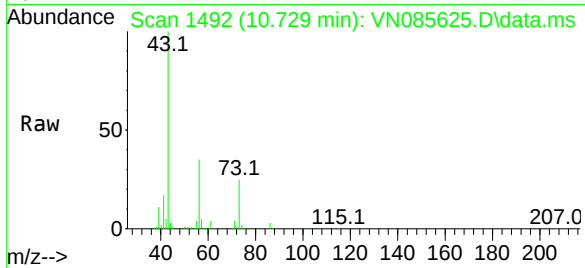
Tgt Ion: 43 Resp: 11462
Ion Ratio Lower Upper
43 100
58 22.4 30.5 45.7#



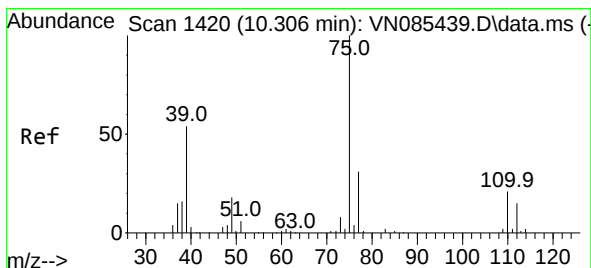
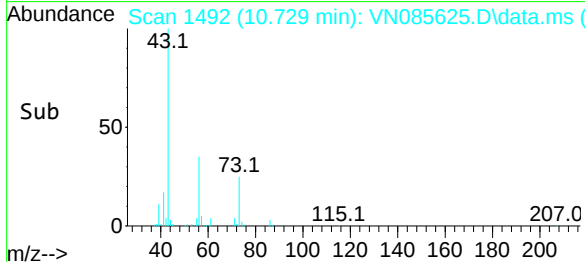
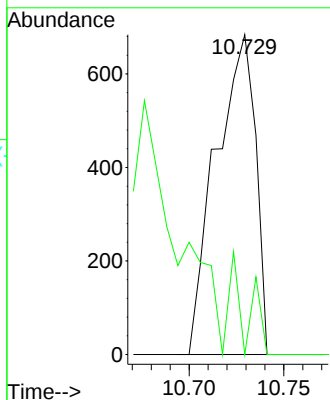


#53
 t-1,3-Dichloropropene
 Concen: 0.290 ug/l
 RT: 10.729 min Scan# 1492
 Delta R.T. -0.106 min
 Lab File: VN085625.D
 Acq: 03 Feb 2025 16:24

Instrument :
 MSVOA_N
 ClientSampleId :

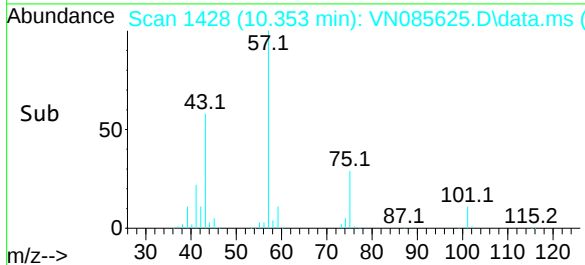
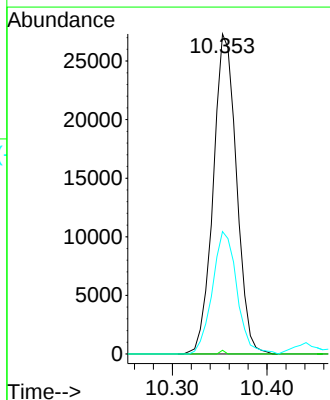
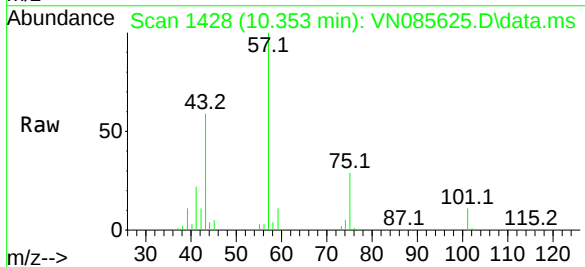


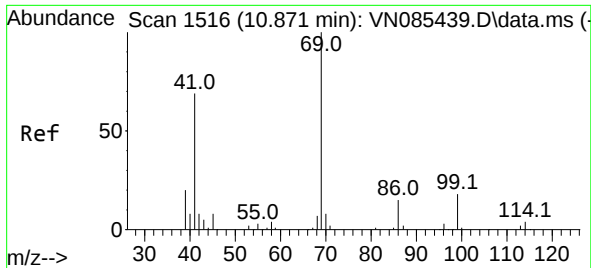
Tgt Ion: 75 Resp: 992
 Ion Ratio Lower Upper
 75 100
 77 0.0 23.5 35.3#



#54
 cis-1,3-Dichloropropene
 Concen: 12.761 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN085625.D
 Acq: 03 Feb 2025 16:24

Tgt Ion: 75 Resp: 46618
 Ion Ratio Lower Upper
 75 100
 77 1.1 25.0 37.4#
 39 38.3 43.1 64.7#

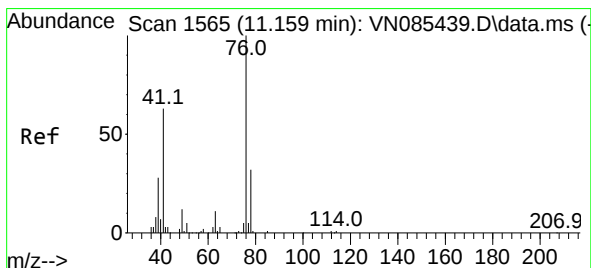
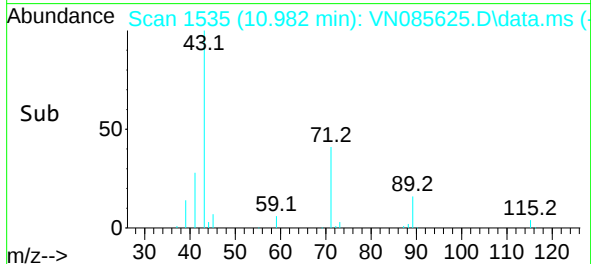
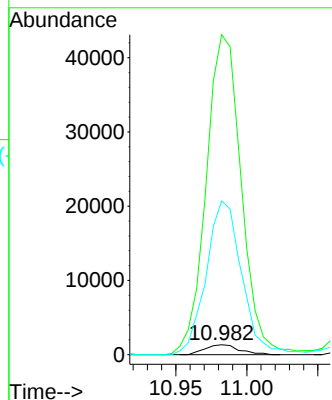
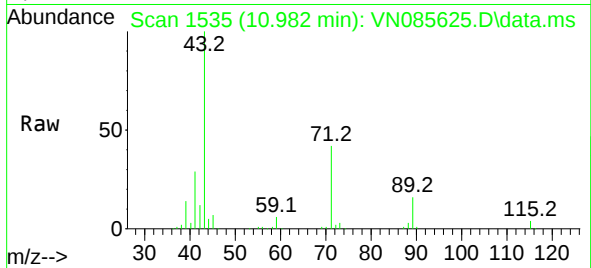




#56
Ethyl methacrylate
Concen: 2.515 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

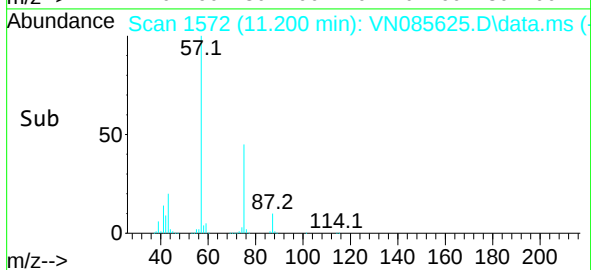
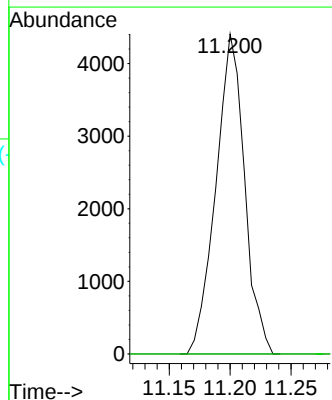
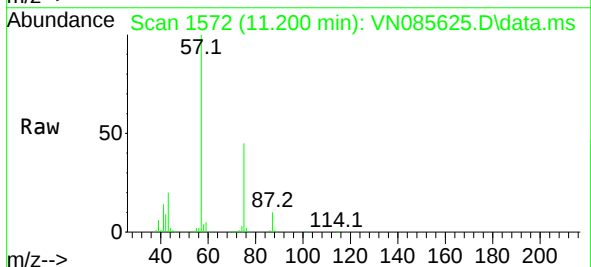
Instrument :
MSVOA_N
ClientSampleId :

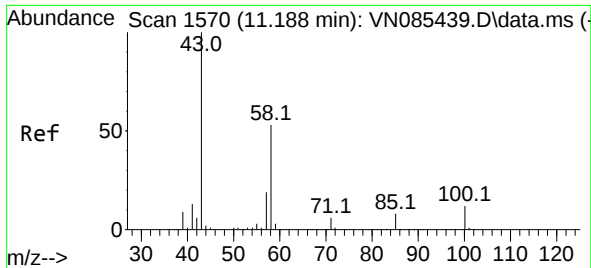
Tgt Ion: 69 Resp: 2262
Ion Ratio Lower Upper
69 100
41 3275.2 54.6 82.0#
39 1596.3 32.4 48.6#



#57
1,3-Dichloropropane
Concen: 1.881 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

Tgt Ion: 76 Resp: 7229
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

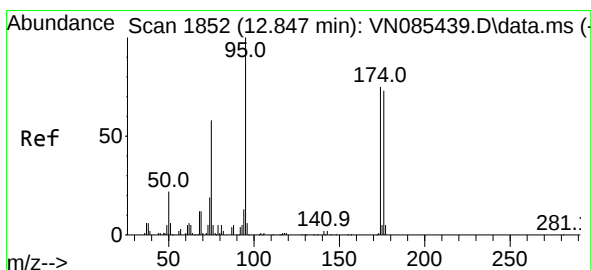
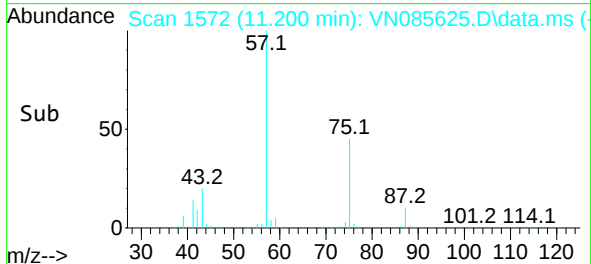
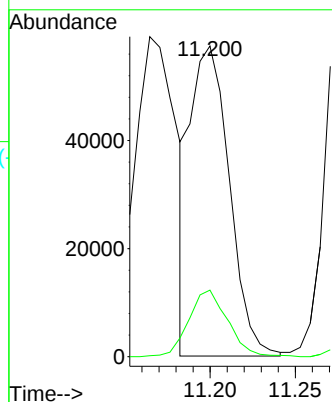
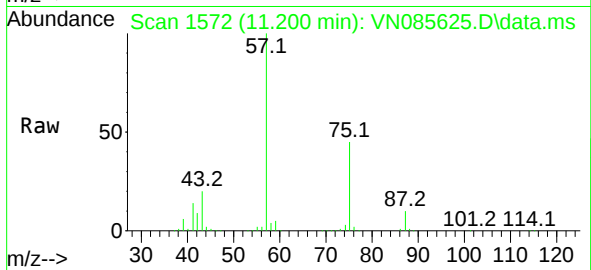




#59
2-Hexanone
Concen: 43.152 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

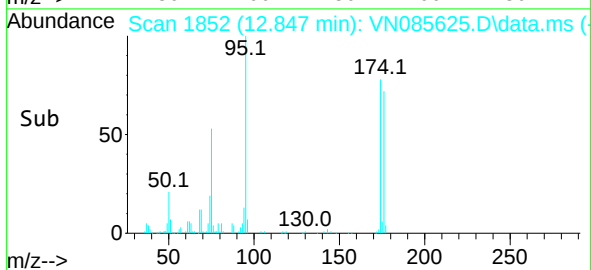
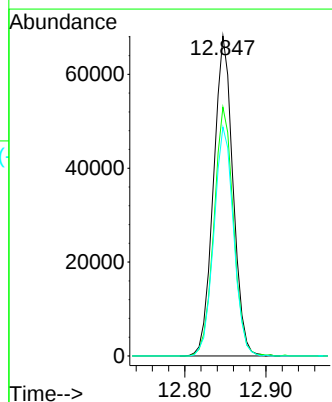
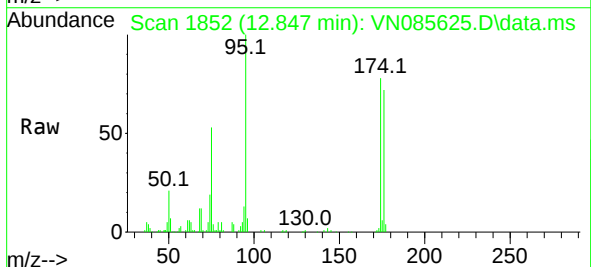
Instrument :
MSVOA_N
ClientSampleId :

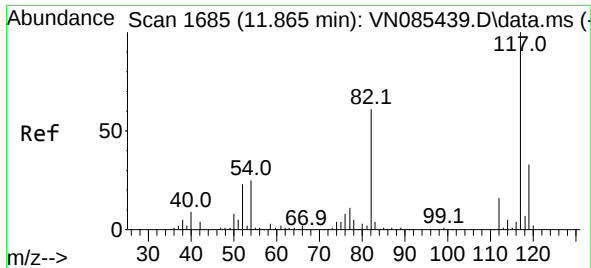
Tgt Ion: 43 Resp: 91410
Ion Ratio Lower Upper
43 100
58 21.5 26.2 78.6#



#62
4-Bromofluorobenzene
Concen: 40.896 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

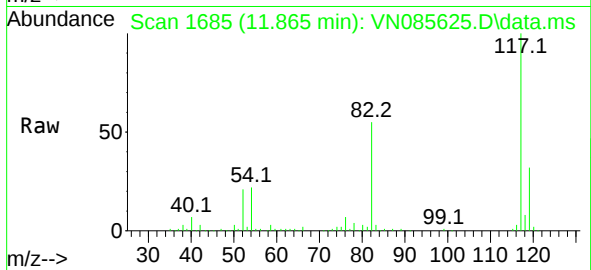
Tgt Ion: 95 Resp: 113603
Ion Ratio Lower Upper
95 100
174 77.7 0.0 145.0
176 72.3 0.0 142.4



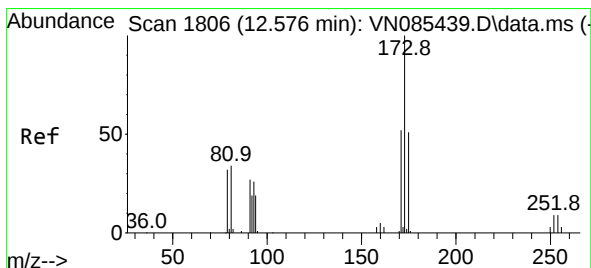
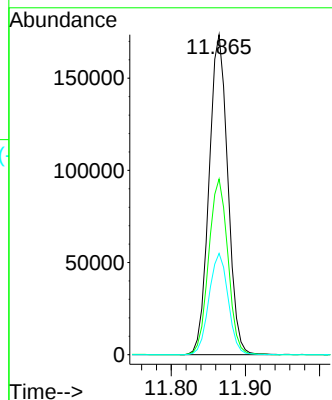
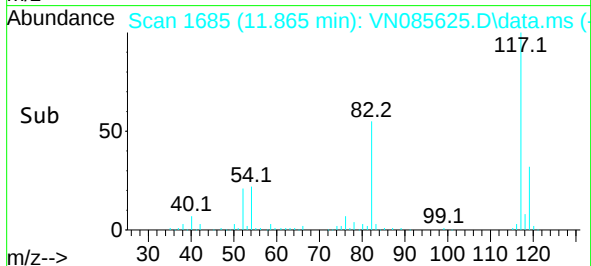


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

Instrument :
MSVOA_N
ClientSampleId :

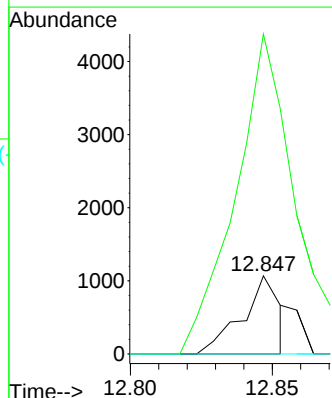
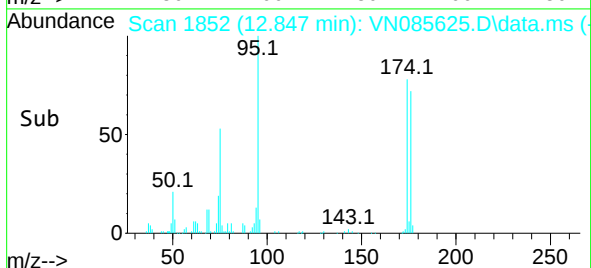
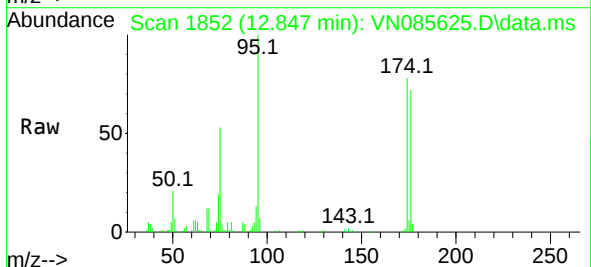


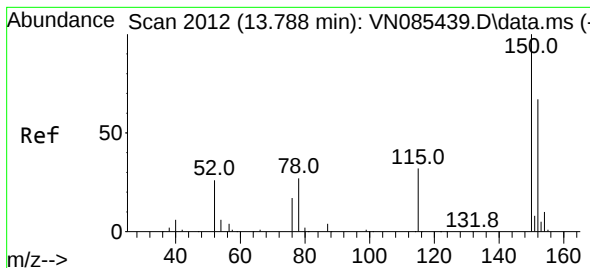
Tgt Ion:117 Resp: 305295
Ion Ratio Lower Upper
117 100
82 54.9 48.6 72.8
119 31.7 26.6 39.8



#71
Bromoform
Concen: 0.563 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

Tgt Ion:173 Resp: 989
Ion Ratio Lower Upper
173 100
175 501.8 24.4 73.2#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.000 min

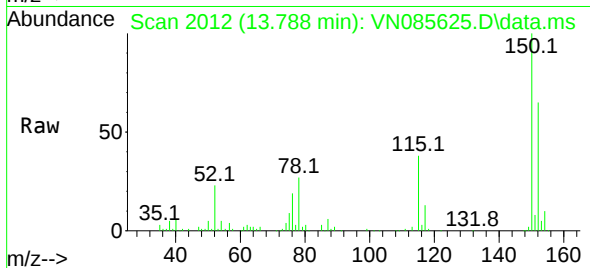
Lab File: VN085625.D

Acq: 03 Feb 2025 16:24

Instrument :

MSVOA_N

ClientSampleId :



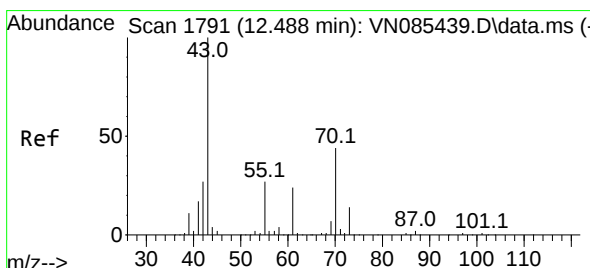
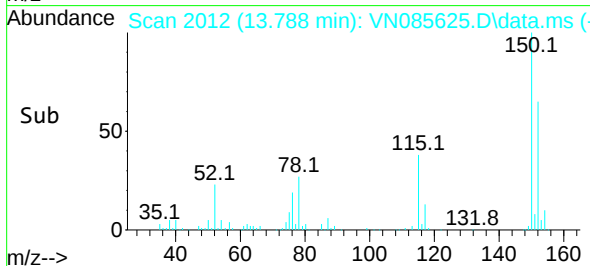
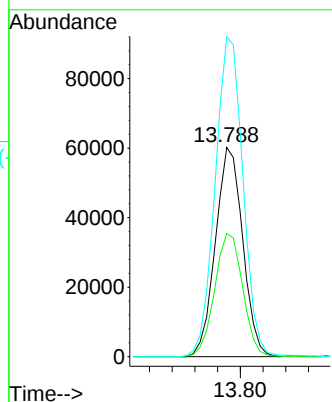
Tgt Ion:152 Resp: 100525

Ion Ratio Lower Upper

152 100

115 60.3 31.1 93.3

150 156.0 0.0 343.6



#74

N-ethyl acetate

Concen: 0.336 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VN085625.D

Acq: 03 Feb 2025 16:24

Tgt Ion: 43 Resp: 1024

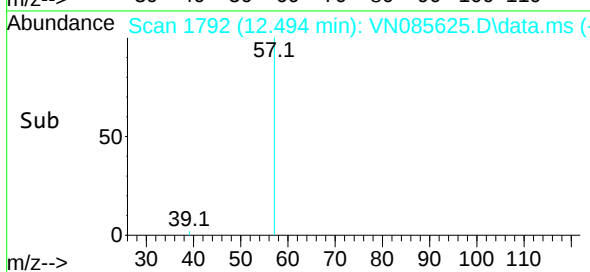
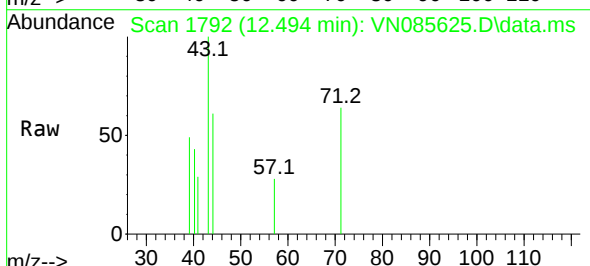
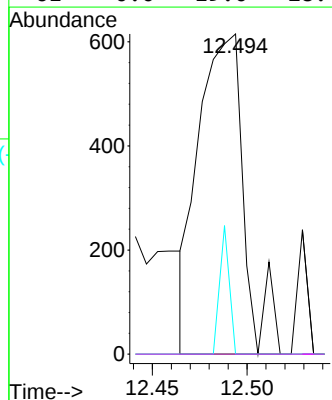
Ion Ratio Lower Upper

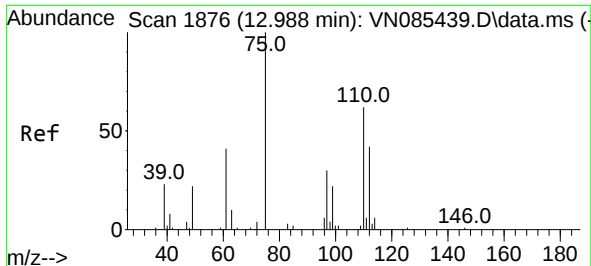
43 100

70 0.0 34.0 51.0#

55 8.5 21.4 32.2#

61 0.0 19.0 28.4#

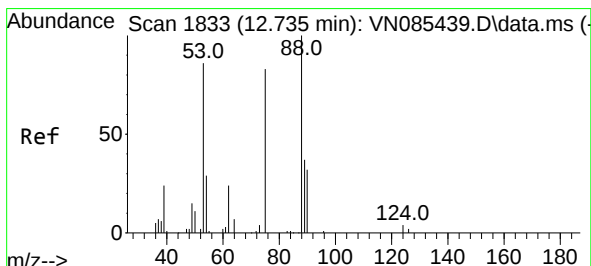
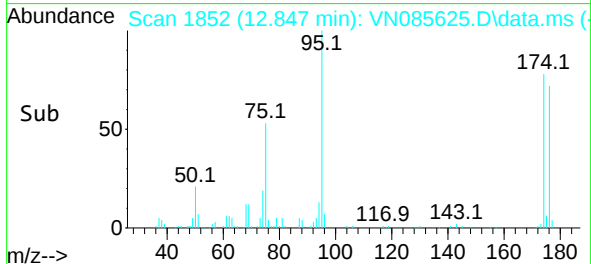
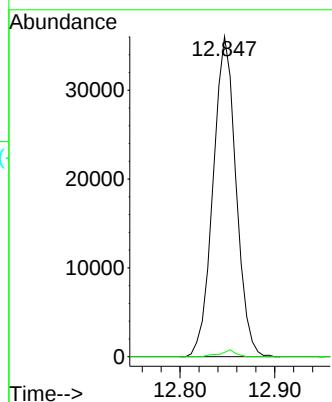
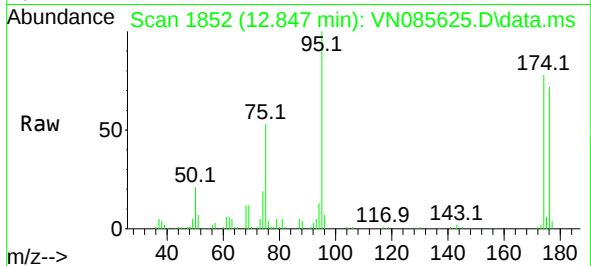




#76
1,2,3-Trichloropropane
Concen: 29.721 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 60726
Ion Ratio Lower Upper
75 100
77 1.4 109.7 329.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 80.413 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085625.D
Acq: 03 Feb 2025 16:24

Tgt Ion: 75 Resp: 60726
Ion Ratio Lower Upper
75 100
53 0.2 95.6 143.4#
89 0.0 37.0 55.6#

