

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020725\
 Data File : VN085709.D
 Acq On : 07 Feb 2025 20:18
 Operator : JC\MD
 Sample : Q1309-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 07 22:37:11 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	202089	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	408558	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	388529	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136662	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	178188	54.623	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	109.240%
35) Dibromofluoromethane	8.165	113	144505	50.983	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.960%
50) Toluene-d8	10.565	98	532581	52.885	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	105.780%
62) 4-Bromofluorobenzene	12.847	95	150505	43.690	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	87.380%

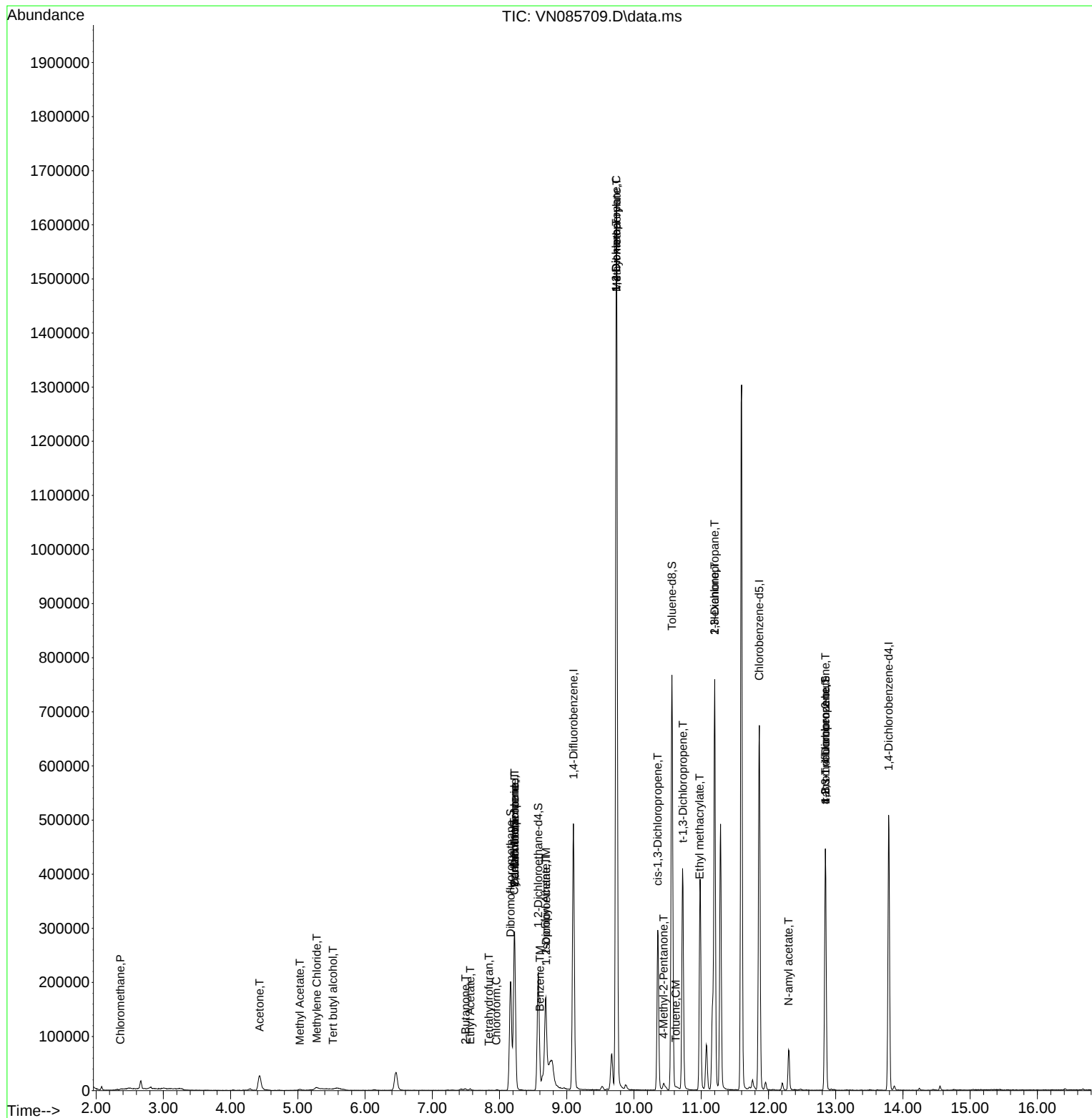
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.359	50	603	0.204	ug/l #	41
11) Tert butyl alcohol	5.524	59	733	1.962	ug/l #	71
16) Acetone	4.430	43	54617	51.818	ug/l	91
18) Methyl Acetate	5.030	43	4021	1.255	ug/l #	77
20) Methylene Chloride	5.283	84	3006	1.152	ug/l	85
25) 2-Butanone	7.494	43	5130	3.307	ug/l	95
29) Tetrahydrofuran	7.841	42	288	0.293	ug/l #	34
30) Chloroform	7.953	83	1147	0.233	ug/l #	69
31) Cyclohexane	8.218	56	5319	1.285	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	18170	4.568	ug/l #	50
37) Ethyl Acetate	7.565	43	4669	1.163	ug/l #	80
38) Carbon Tetrachloride	8.224	117	21319	4.681	ug/l #	19
40) Benzene	8.600	78	4360	0.365	ug/l	99
42) 1,2-Dichloroethane	8.694	62	1104	0.245	ug/l #	76
43) Isopropyl Acetate	8.688	43	225649	35.072	ug/l #	82
45) 1,2-Dichloropropane	9.735	63	1995	0.653	ug/l #	43
48) Methyl methacrylate	9.741	41	153259	52.933	ug/l #	45
49) 1,4-Dioxane	9.735	88	135	2.769	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	11908	3.190	ug/l #	81
52) Toluene	10.623	92	2058	0.297	ug/l #	74
53) t-1,3-Dichloropropene	10.729	75	1043	0.246	ug/l #	72
54) cis-1,3-Dichloropropene	10.353	75	51291	11.321	ug/l #	65
56) Ethyl methacrylate	10.976	69	2733	2.500	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	8037	1.686	ug/l #	43
59) 2-Hexanone	11.200	43	83973	31.966	ug/l #	63
74) N-amyl acetate	12.300	43	21742	5.244	ug/l #	55
76) 1,2,3-Trichloropropane	12.847	75	80088	28.833	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	80088	78.009	ug/l #	3

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

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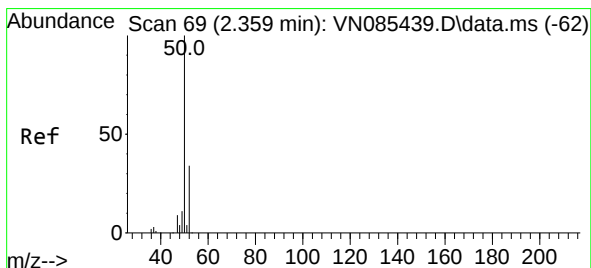
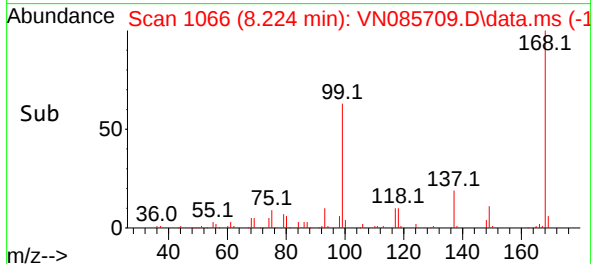
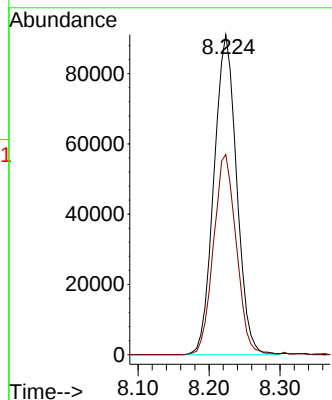
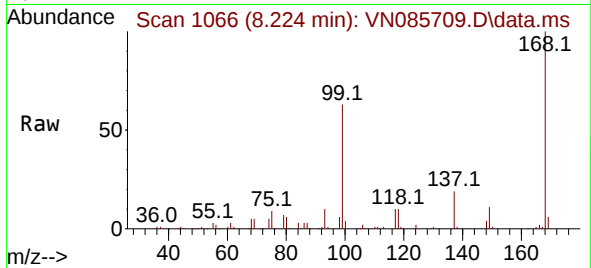




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

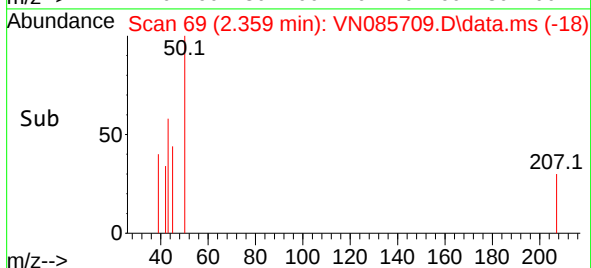
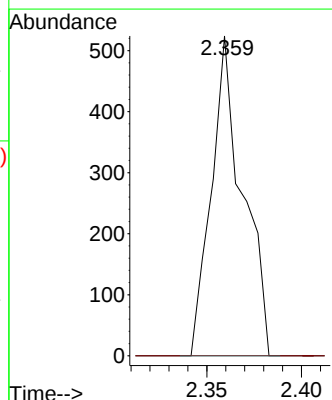
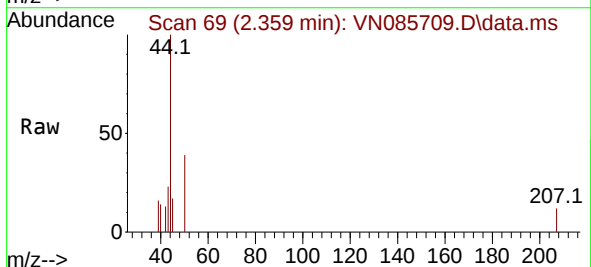
Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:168 Resp: 202089
Ion Ratio Lower Upper
168 100
99 62.6 53.6 80.4



#3
Chloromethane
Concen: 0.204 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

Tgt Ion: 50 Resp: 603
Ion Ratio Lower Upper
50 100
52 0.0 27.0 40.6#

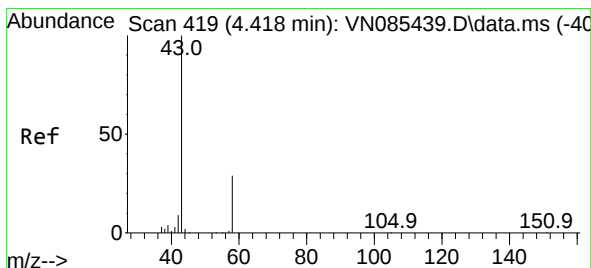
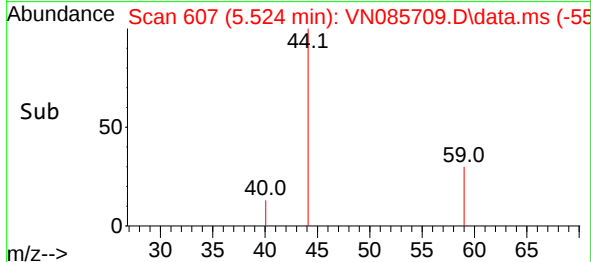
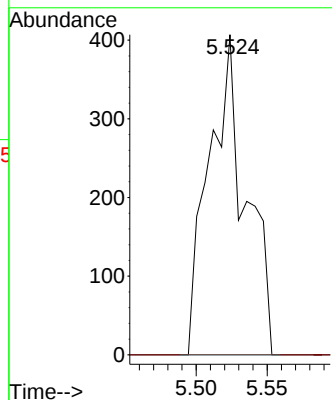
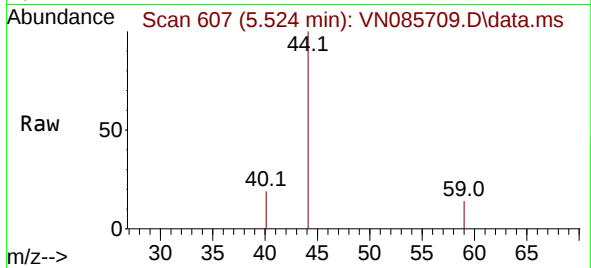




#11
Tert butyl alcohol
Concen: 1.962 ug/l
RT: 5.524 min Scan# 605
Delta R.T. 0.012 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

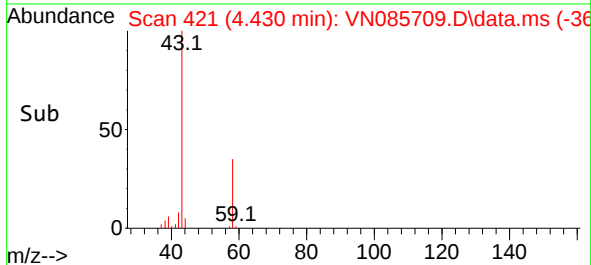
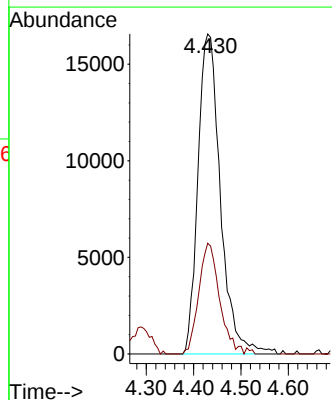
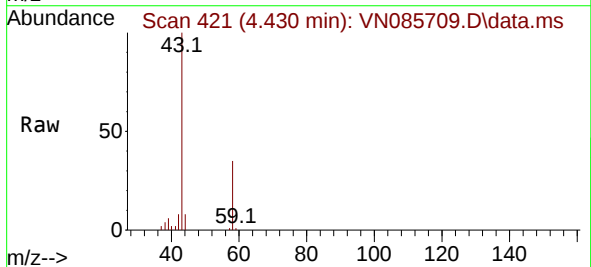
Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 59 Resp: 733
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#16
Acetone
Concen: 51.818 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

Tgt Ion: 43 Resp: 54617
Ion Ratio Lower Upper
43 100
58 34.6 23.8 35.6

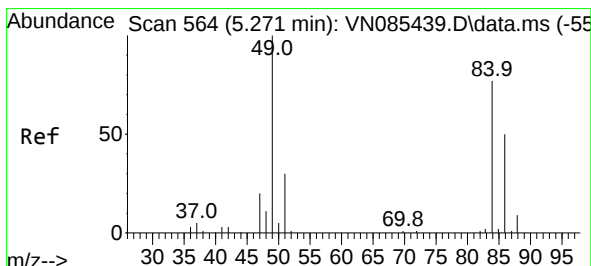
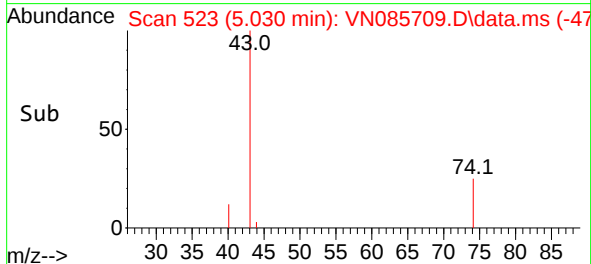
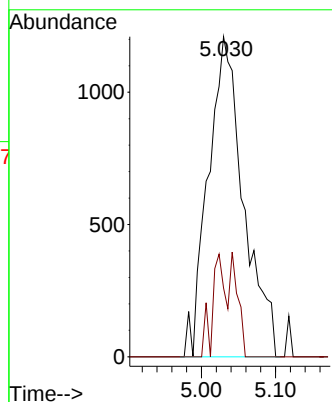
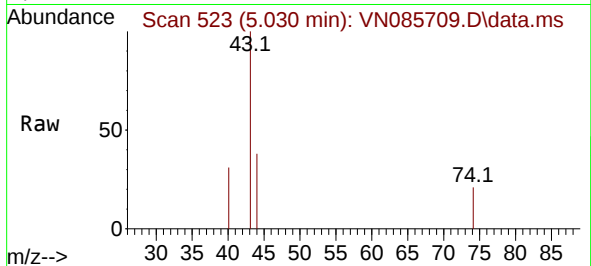




#18
Methyl Acetate
Concen: 1.255 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

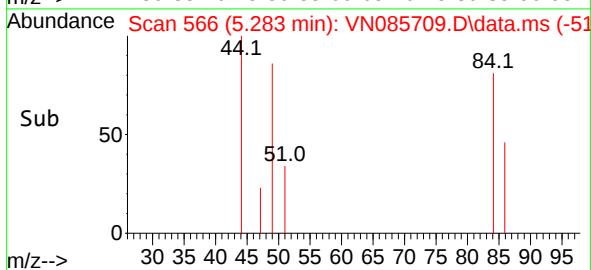
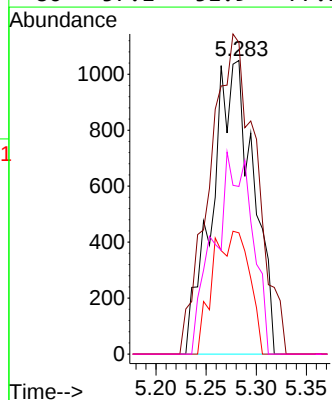
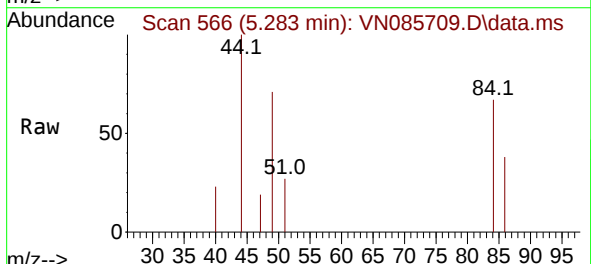
Instrument :
MSVOA_N
ClientSampleId :

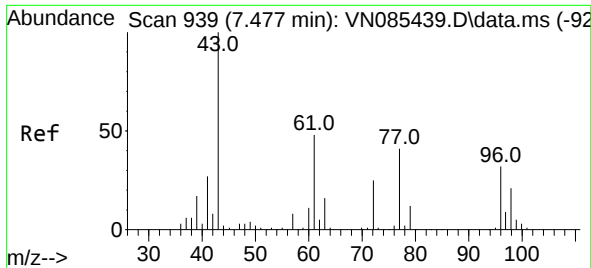
Tgt Ion: 43 Resp: 4021
Ion Ratio Lower Upper
43 100
74 12.0 18.6 28.0#



#20
Methylene Chloride
Concen: 1.152 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.012 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

Tgt Ion: 84 Resp: 3006
Ion Ratio Lower Upper
84 100
49 106.1 104.1 156.1
51 41.3 31.0 46.4
86 57.1 51.9 77.9

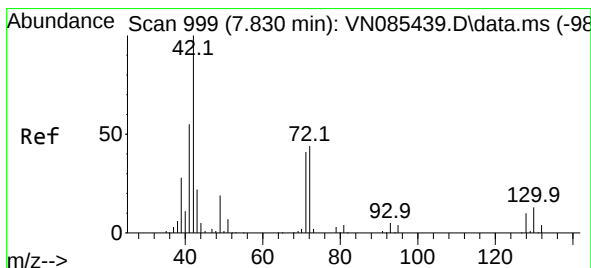
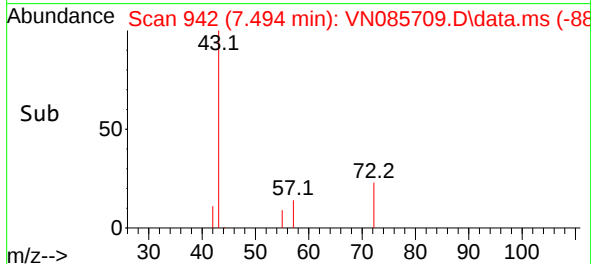
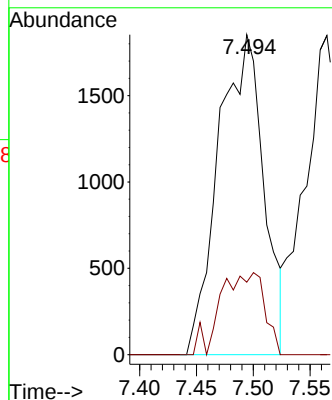
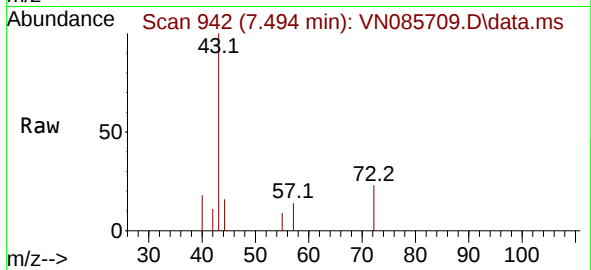




#25
2-Butanone
Concen: 3.307 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.018 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

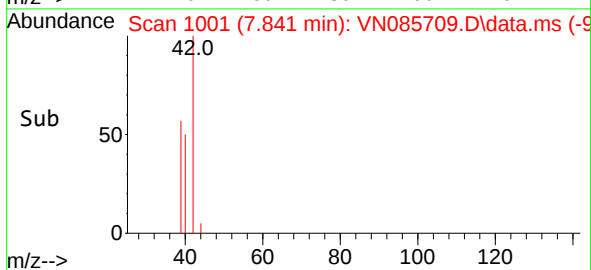
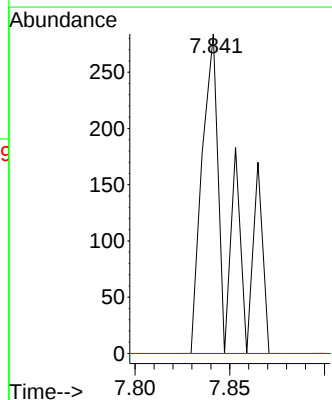
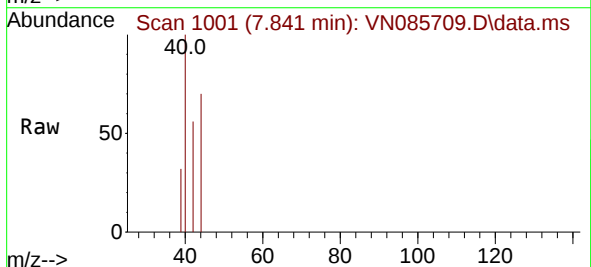
Instrument :
MSVOA_N
ClientSampleId :

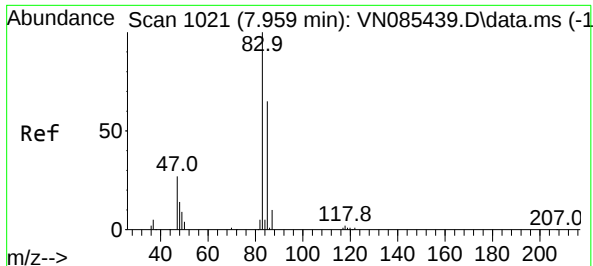
Tgt Ion: 43 Resp: 5130
Ion Ratio Lower Upper
43 100
72 22.6 20.2 30.4



#29
Tetrahydrofuran
Concen: 0.293 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.012 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

Tgt Ion: 42 Resp: 288
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 0.0 32.5 48.7#





#30

Chloroform

Concen: 0.233 ug/l

RT: 7.953 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN085709.D

Acq: 07 Feb 2025 20:18

Instrument :

MSVOA_N

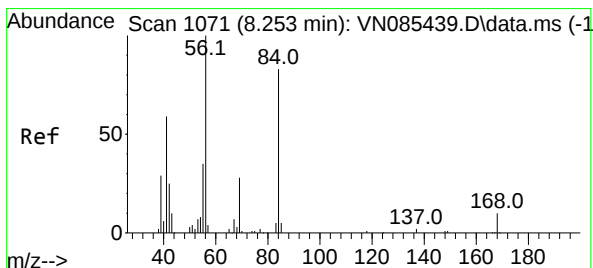
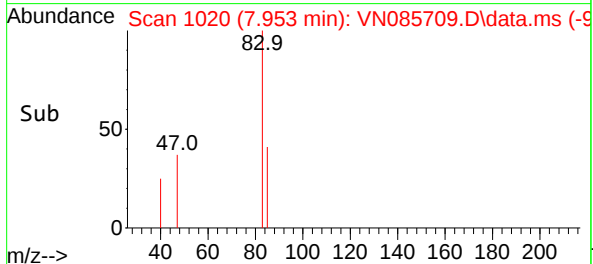
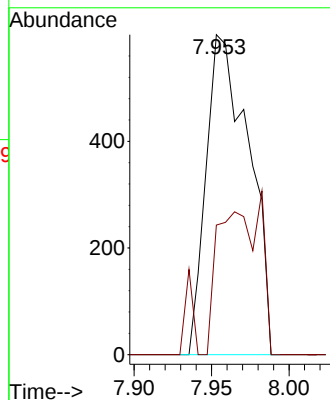
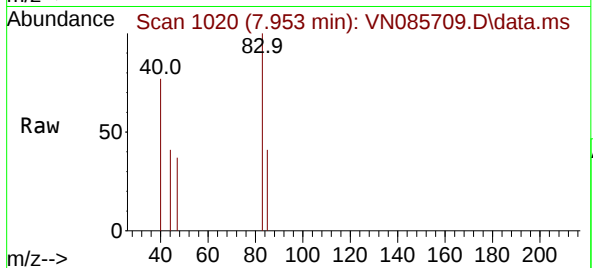
ClientSampleId :

Tgt Ion: 83 Resp: 1147

Ion Ratio Lower Upper

83 100

85 40.5 51.8 77.6#



#31

Cyclohexane

Concen: 1.285 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN085709.D

Acq: 07 Feb 2025 20:18

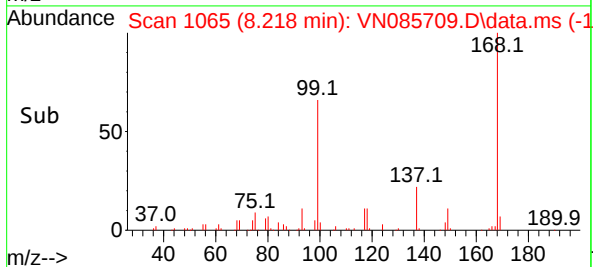
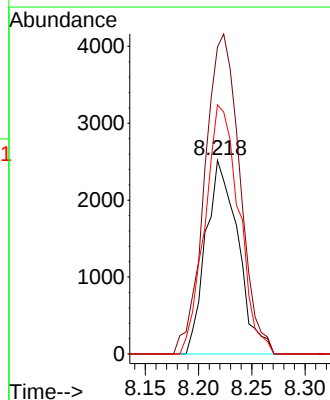
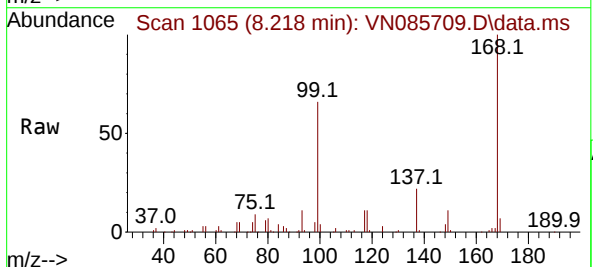
Tgt Ion: 56 Resp: 5319

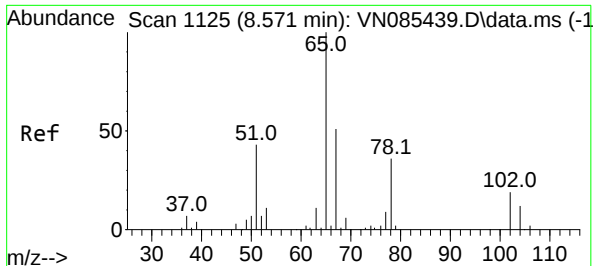
Ion Ratio Lower Upper

56 100

69 158.5 22.2 33.4#

84 128.6 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 54.623 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085709.D

Acq: 07 Feb 2025 20:18

Instrument :

MSVOA_N

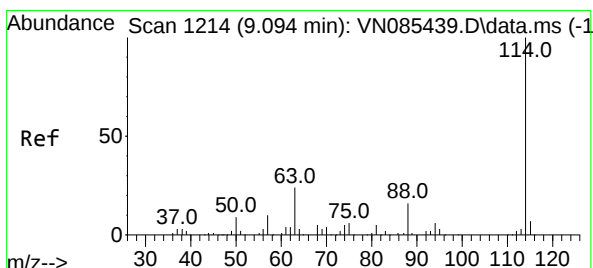
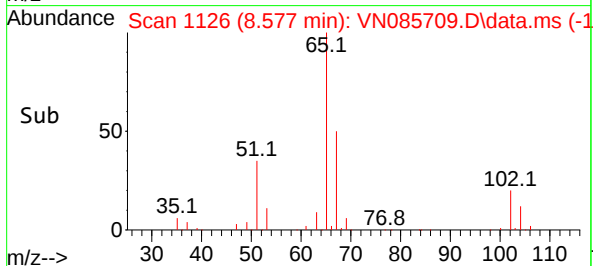
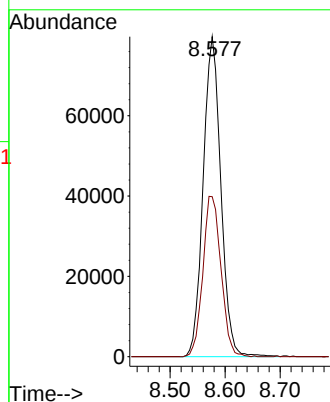
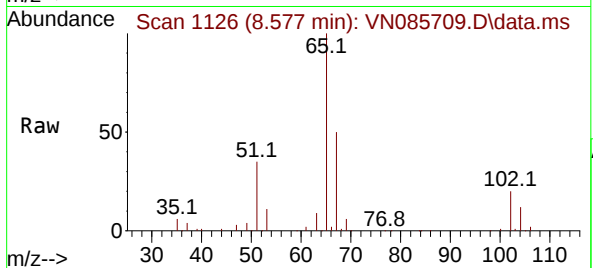
ClientSampleId :

Tgt Ion: 65 Resp: 178188

Ion Ratio Lower Upper

65 100

67 51.3 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: VN085709.D

Acq: 07 Feb 2025 20:18

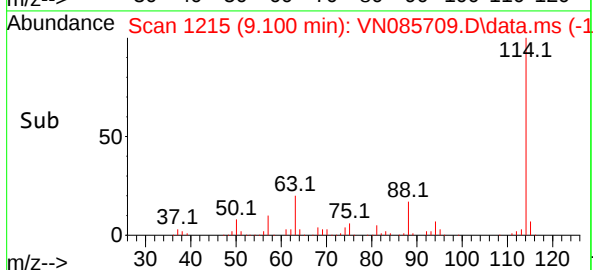
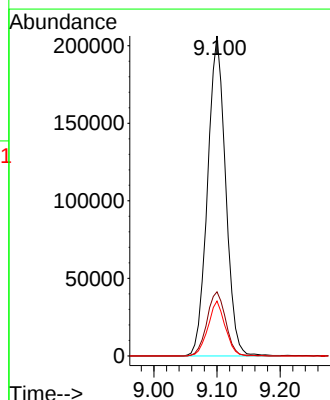
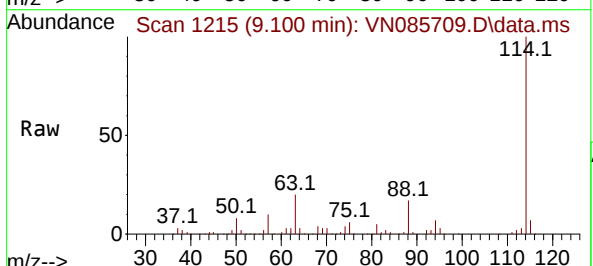
Tgt Ion: 114 Resp: 408558

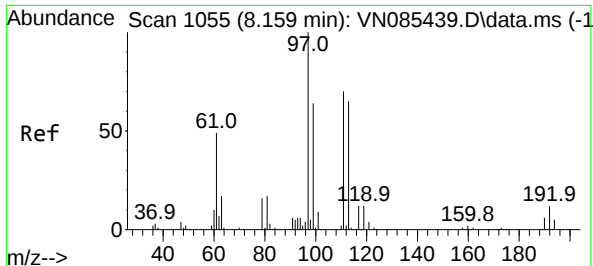
Ion Ratio Lower Upper

114 100

63 20.0 0.0 47.6

88 17.1 0.0 32.6





#35

Dibromofluoromethane

Concen: 50.983 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

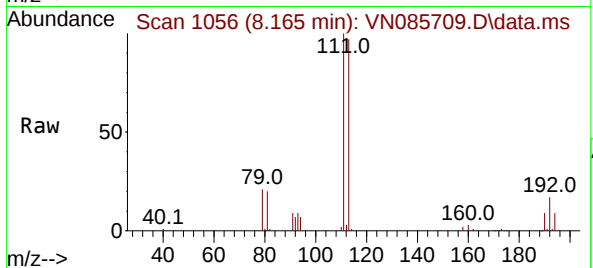
Lab File: VN085709.D

Acq: 07 Feb 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :



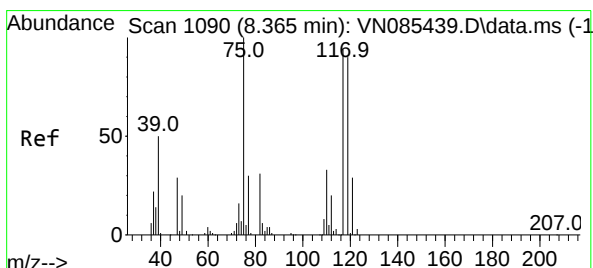
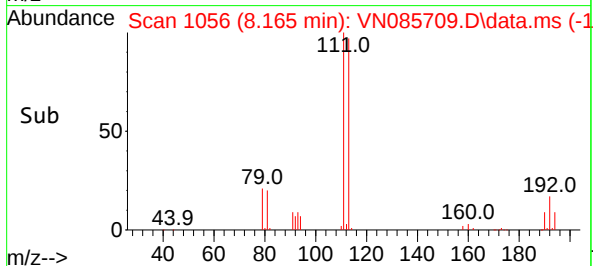
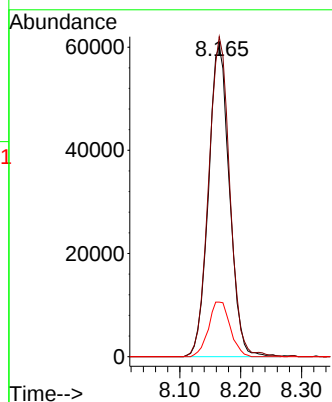
Tgt Ion:113 Resp: 144505

Ion Ratio Lower Upper

113 100

111 103.5 82.7 124.1

192 18.1 14.3 21.5



#36

1,1-Dichloropropene

Concen: 4.568 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085709.D

Acq: 07 Feb 2025 20:18

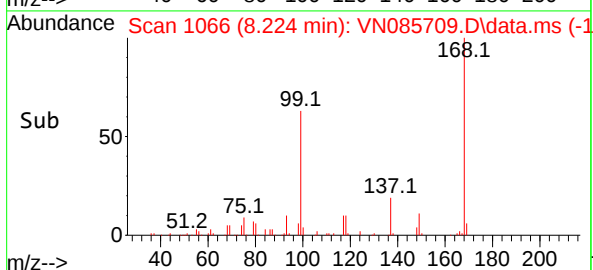
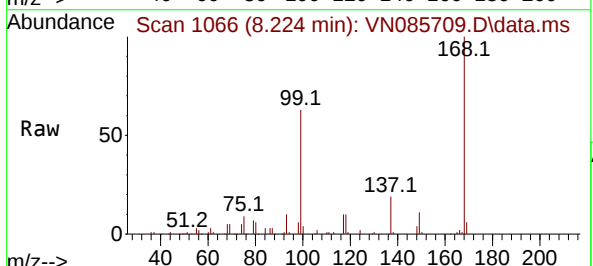
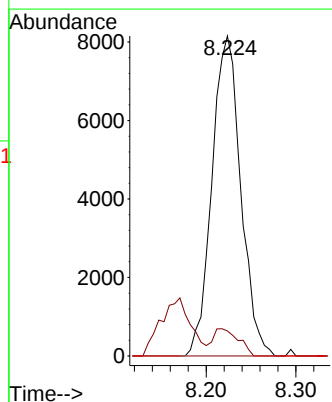
Tgt Ion: 75 Resp: 18170

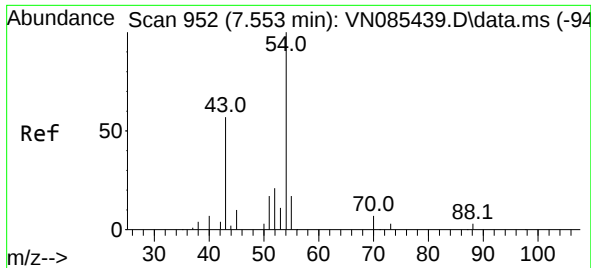
Ion Ratio Lower Upper

75 100

110 7.5 16.5 49.5#

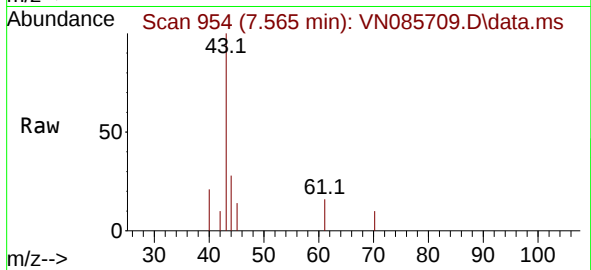
77 0.0 24.4 36.6#



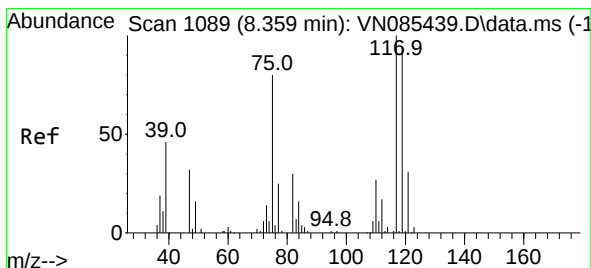
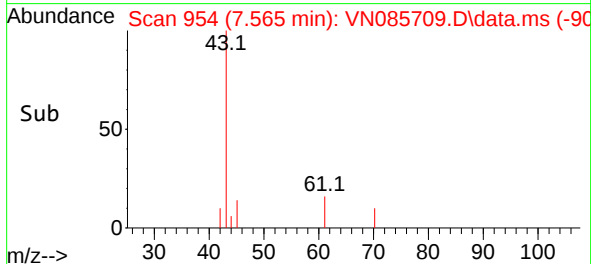
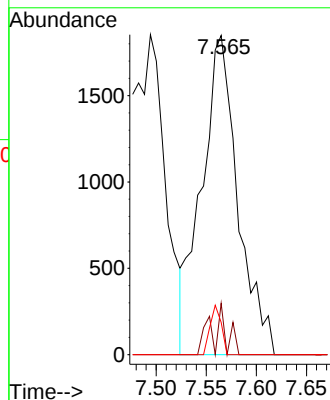


#37
Ethyl Acetate
Concen: 1.163 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

Instrument :
MSVOA_N
ClientSampleId :

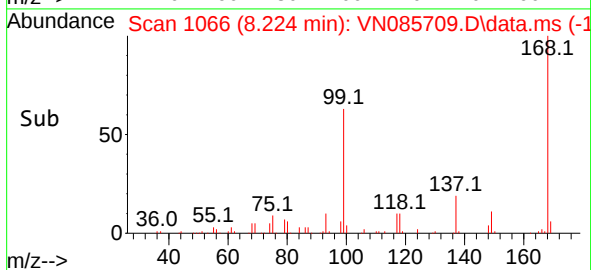
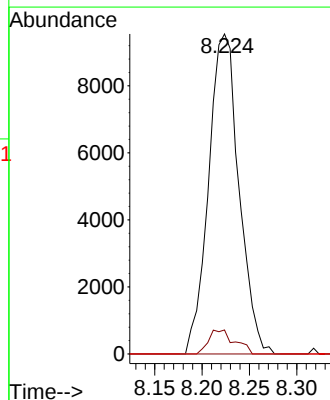
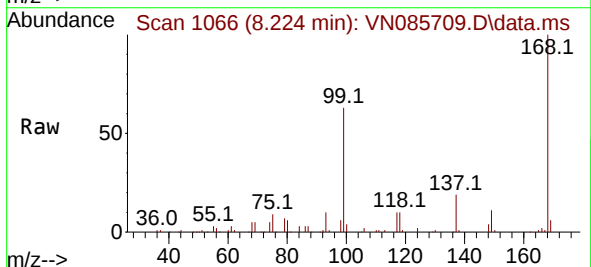


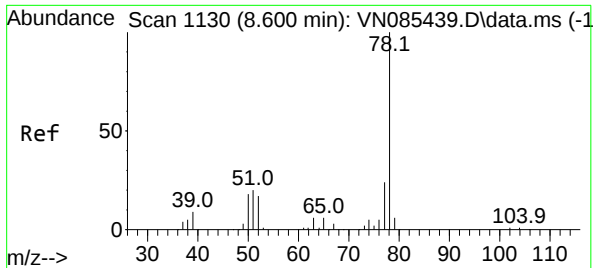
Tgt Ion: 43 Resp: 4669
Ion Ratio Lower Upper
43 100
61 3.7 10.9 16.3#
70 4.7 7.5 11.3#



#38
Carbon Tetrachloride
Concen: 4.681 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

Tgt Ion: 117 Resp: 21319
Ion Ratio Lower Upper
117 100
119 7.5 75.4 113.2#
121 0.0 24.6 37.0#

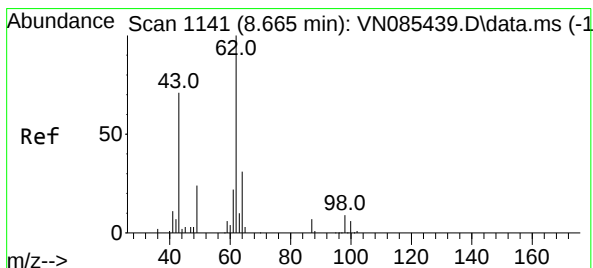
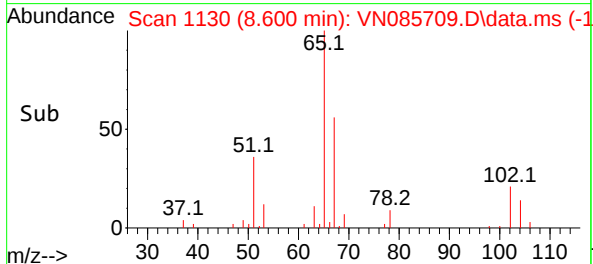
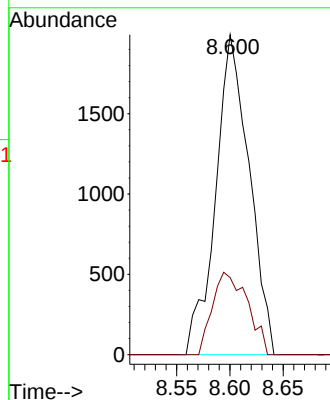
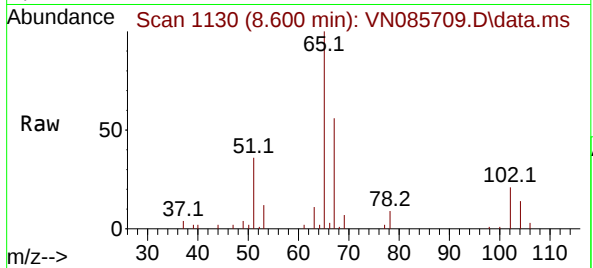




#40
Benzene
Concen: 0.365 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

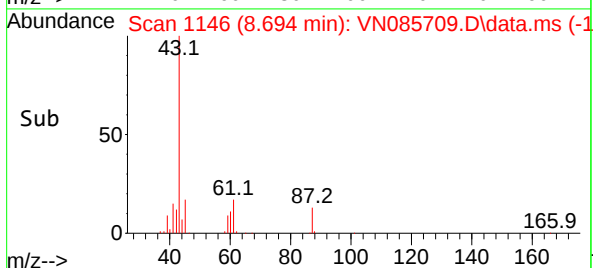
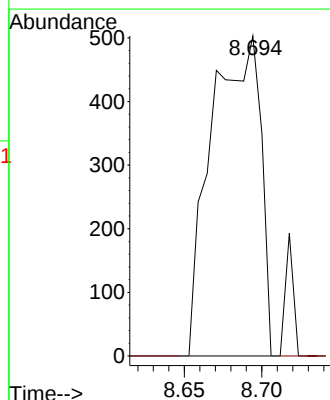
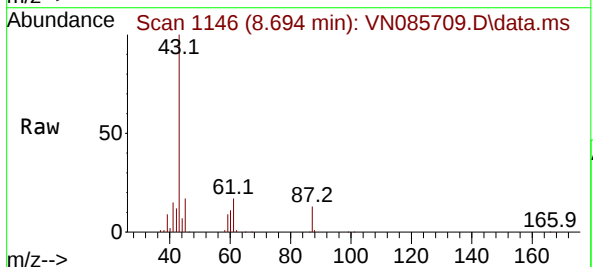
Instrument :
MSVOA_N
ClientSampleId :

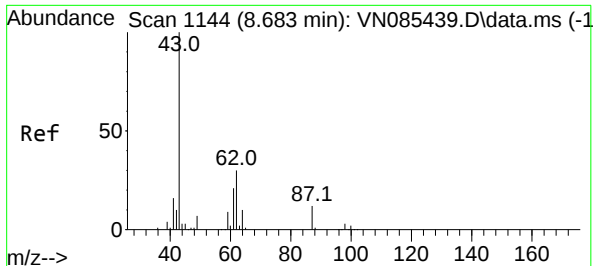
Tgt Ion: 78 Resp: 4360
Ion Ratio Lower Upper
78 100
77 24.1 19.0 28.6



#42
1,2-Dichloroethane
Concen: 0.245 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.029 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

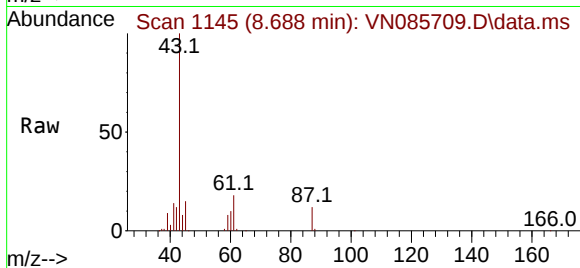
Tgt Ion: 62 Resp: 1104
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.0



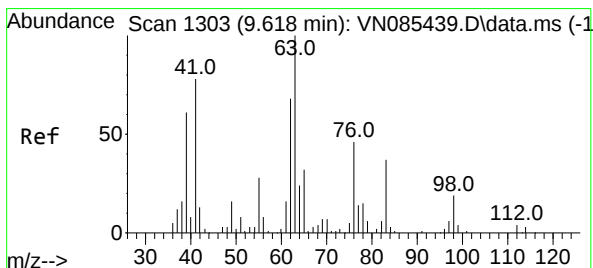
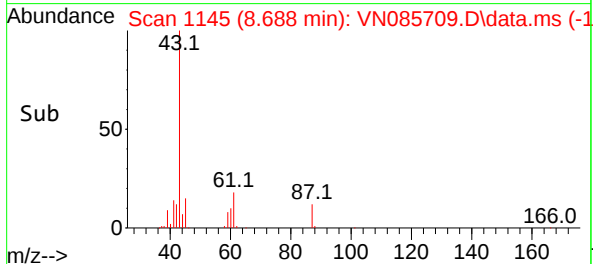
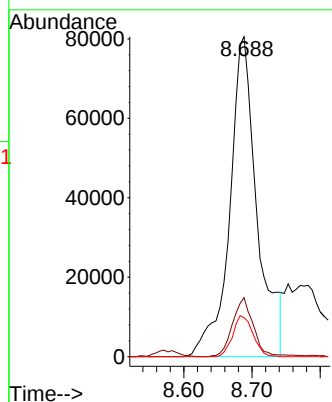


#43
Isopropyl Acetate
Concen: 35.072 ug/l
RT: 8.688 min Scan# 1144
Delta R.T. 0.006 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

Instrument :
MSVOA_N
ClientSampleId :

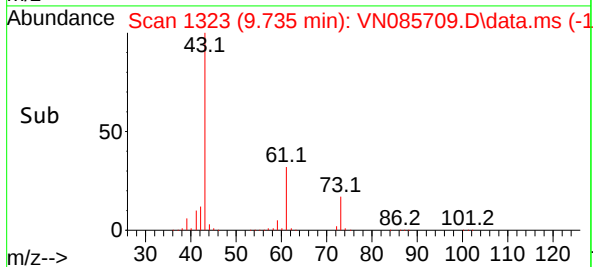
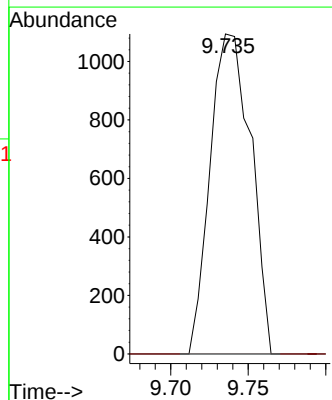
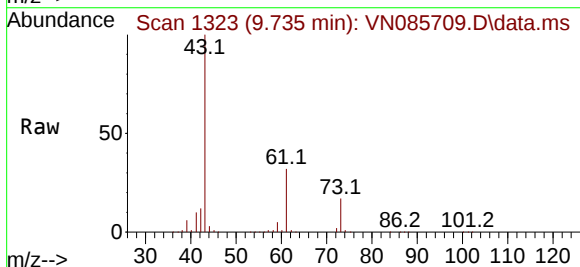


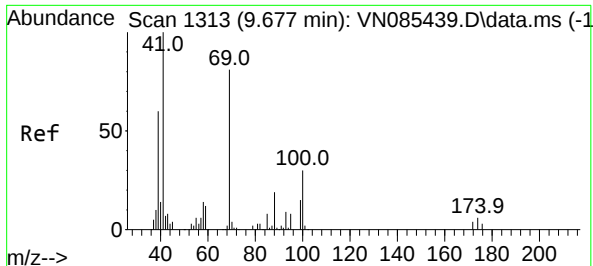
Tgt Ion: 43 Resp: 225649
Ion Ratio Lower Upper
43 100
61 14.2 20.7 31.1#
87 9.4 9.8 14.8#



#45
1,2-Dichloropropane
Concen: 0.653 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

Tgt Ion: 63 Resp: 1995
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#

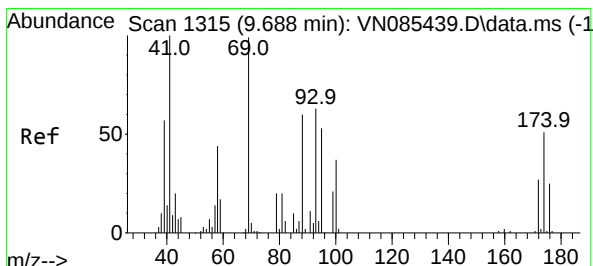
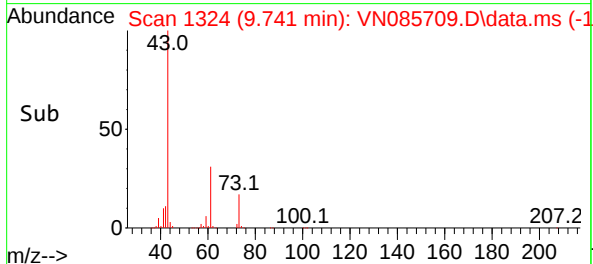
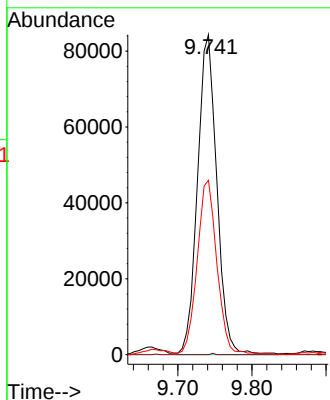
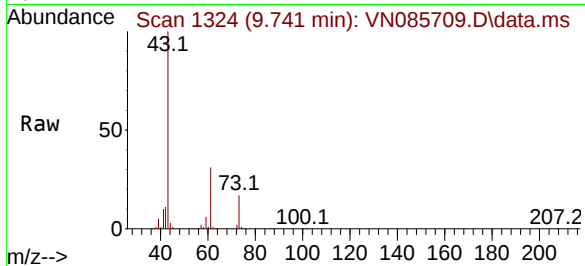




#48
Methyl methacrylate
Concen: 52.933 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.064 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

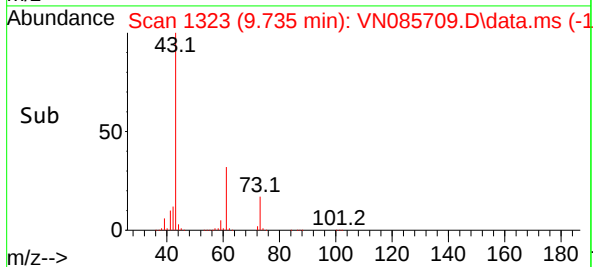
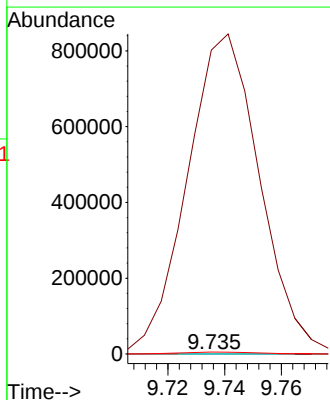
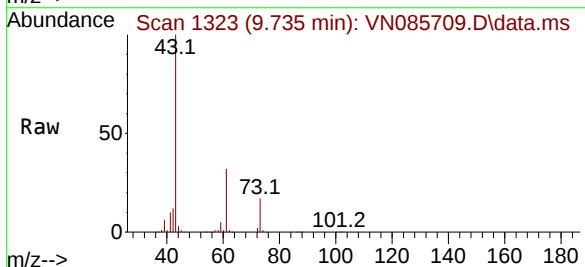
Instrument :
MSVOA_N
ClientSampleId :

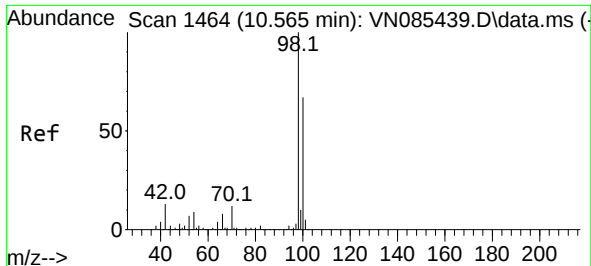
Tgt Ion: 41 Resp: 153259
Ion Ratio Lower Upper
41 100
69 0.1 64.7 97.1#
39 55.8 49.0 73.6



#49
1,4-Dioxane
Concen: 2.769 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.047 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

Tgt Ion: 88 Resp: 135
Ion Ratio Lower Upper
88 100
43 1119876.3 26.6 39.8#
58 7045.9 59.5 89.3#

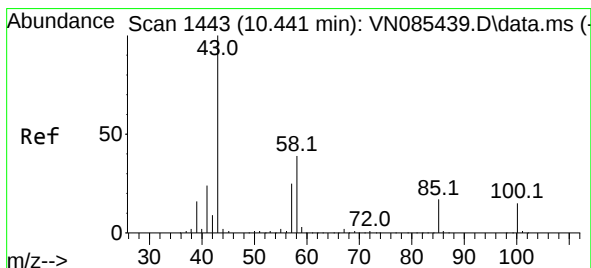
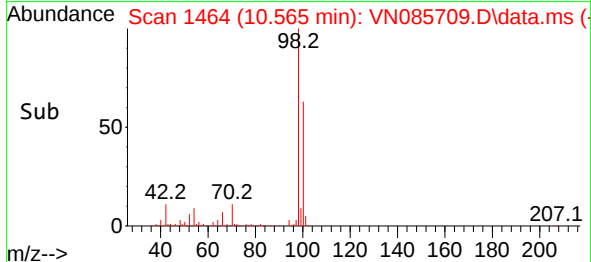
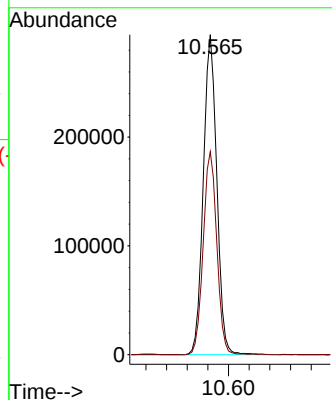
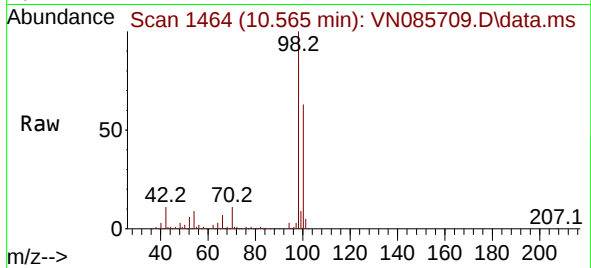




#50
Toluene-d8
Concen: 52.885 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

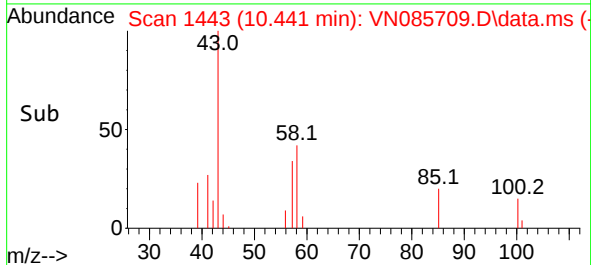
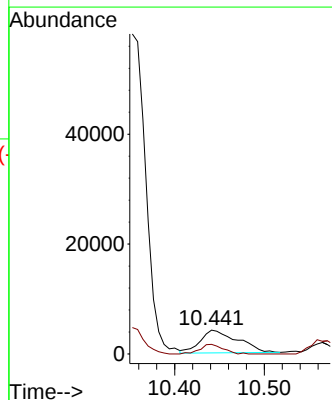
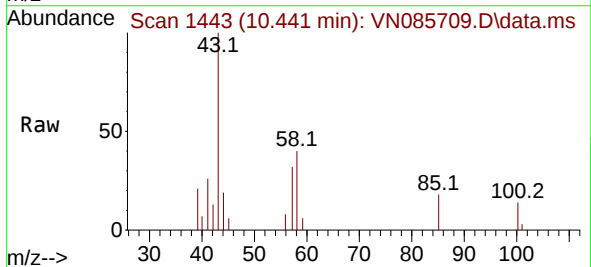
Instrument :
MSVOA_N
ClientSampleId :

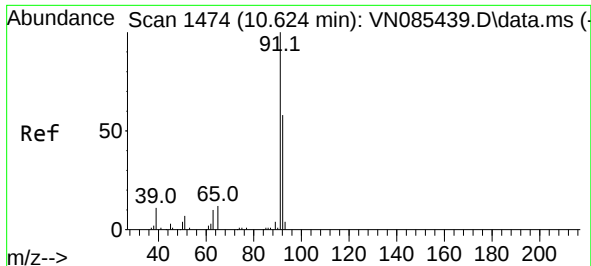
Tgt Ion: 98 Resp: 532581
Ion Ratio Lower Upper
98 100
100 64.0 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 3.190 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

Tgt Ion: 43 Resp: 11908
Ion Ratio Lower Upper
43 100
58 26.3 30.5 45.7#

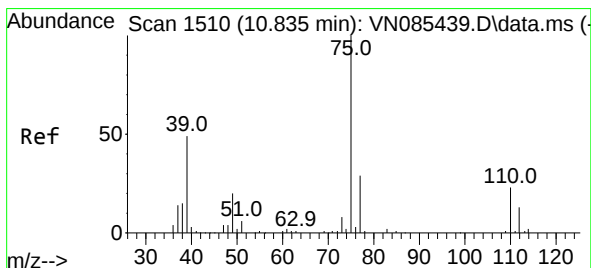
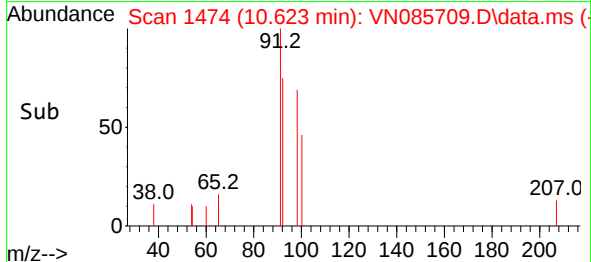
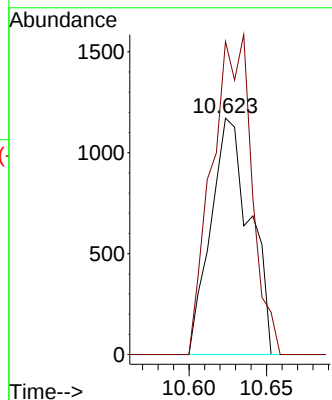
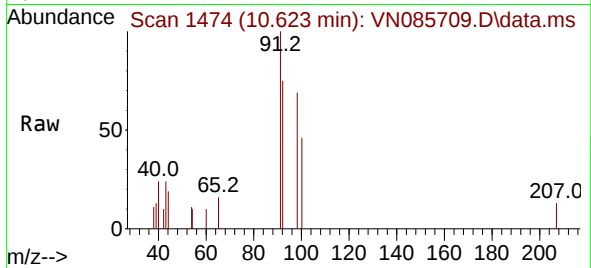




#52
Toluene
Concen: 0.297 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.001 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

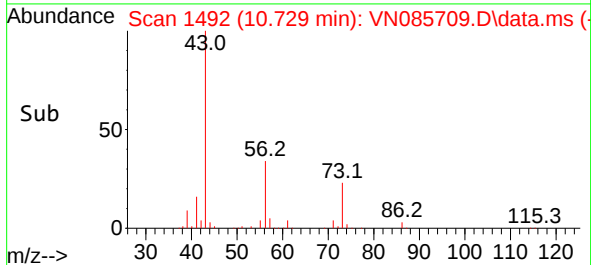
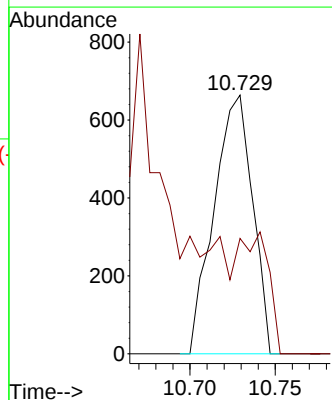
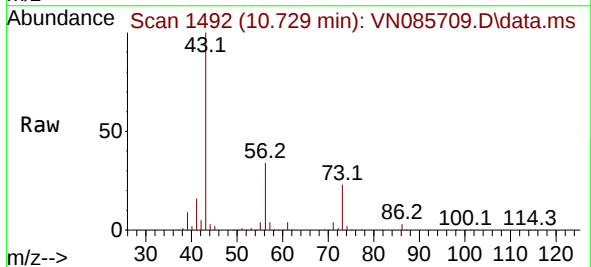
Instrument :
MSVOA_N
ClientSampleId :

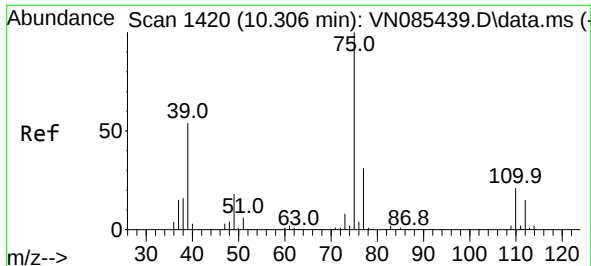
Tgt Ion: 92 Resp: 2058
Ion Ratio Lower Upper
92 100
91 137.6 139.2 208.8#



#53
t-1,3-Dichloropropene
Concen: 0.246 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.106 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

Tgt Ion: 75 Resp: 1043
Ion Ratio Lower Upper
75 100
77 44.6 23.5 35.3#

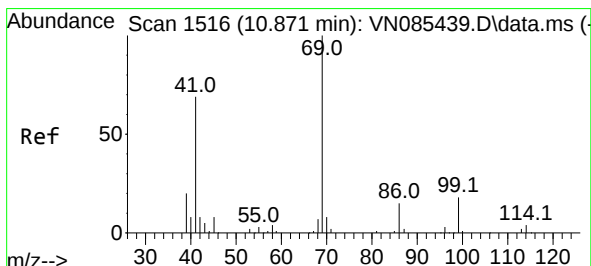
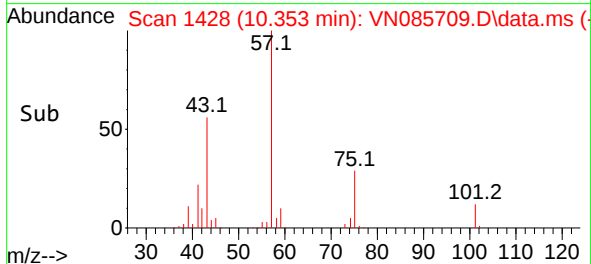
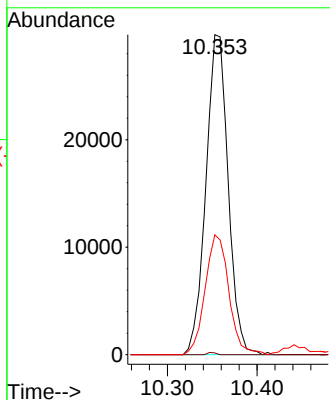
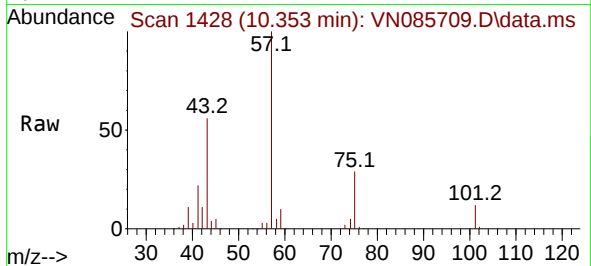




#54
 cis-1,3-Dichloropropene
 Concen: 11.321 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN085709.D
 Acq: 07 Feb 2025 20:18

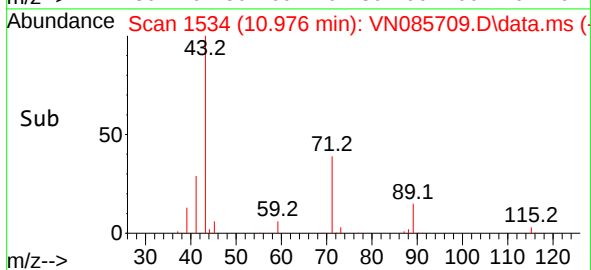
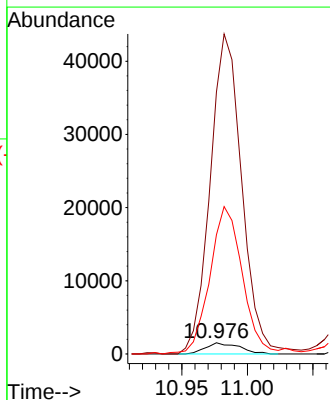
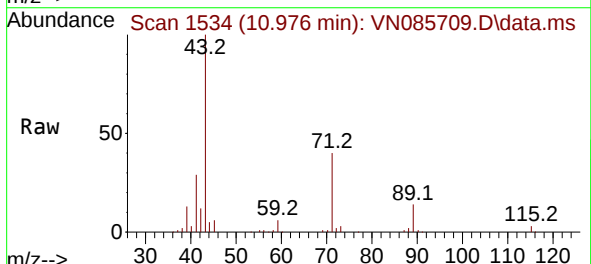
Instrument :
 MSVOA_N
 ClientSampleId :

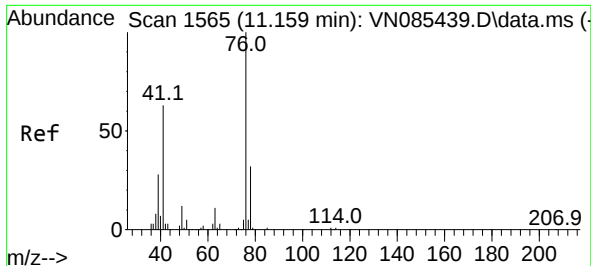
Tgt Ion: 75 Resp: 51291
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.0 37.4#
 39 37.4 43.1 64.7#



#56
 Ethyl methacrylate
 Concen: 2.500 ug/l
 RT: 10.976 min Scan# 1534
 Delta R.T. 0.105 min
 Lab File: VN085709.D
 Acq: 07 Feb 2025 20:18

Tgt Ion: 69 Resp: 2733
 Ion Ratio Lower Upper
 69 100
 41 2691.0 54.6 82.0#
 39 1285.9 32.4 48.6#





#57

1,3-Dichloropropane

Concen: 1.686 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN085709.D

Acq: 07 Feb 2025 20:18

Instrument :

MSVOA_N

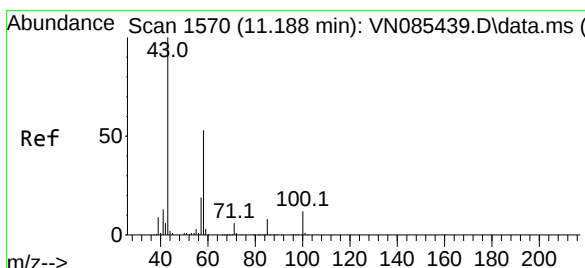
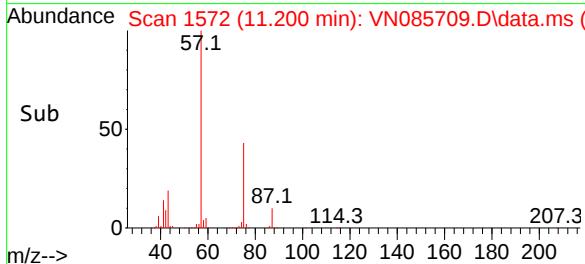
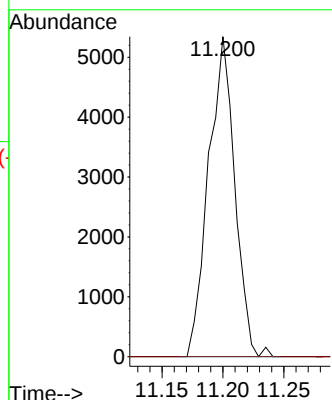
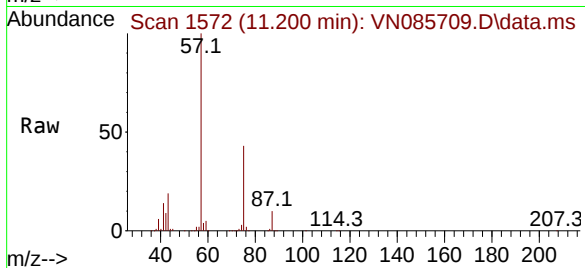
ClientSampleId :

Tgt Ion: 76 Resp: 8037

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 31.966 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.012 min

Lab File: VN085709.D

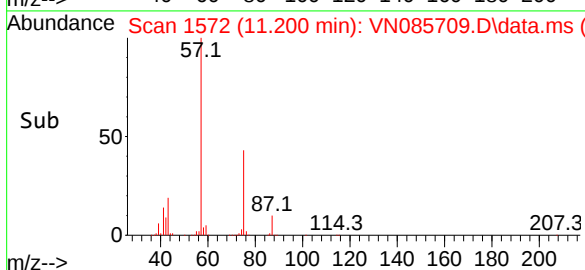
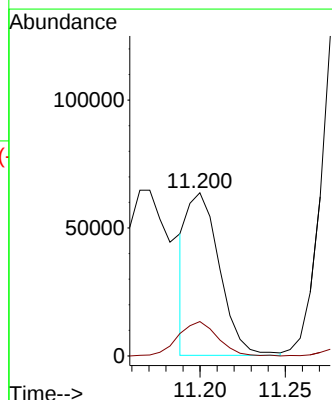
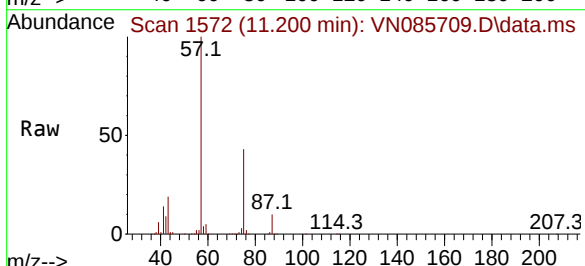
Acq: 07 Feb 2025 20:18

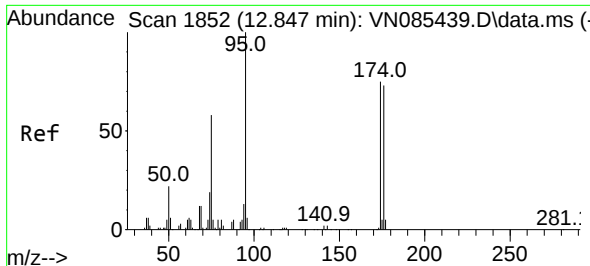
Tgt Ion: 43 Resp: 83973

Ion Ratio Lower Upper

43 100

58 26.0 26.2 78.6#

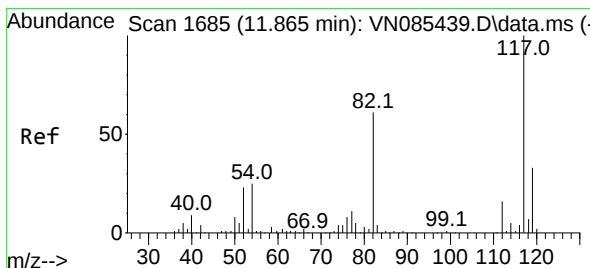
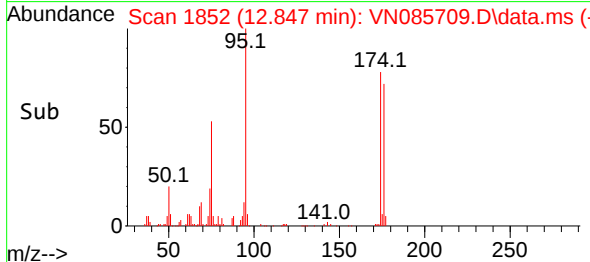
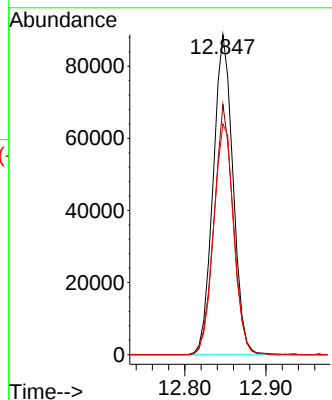
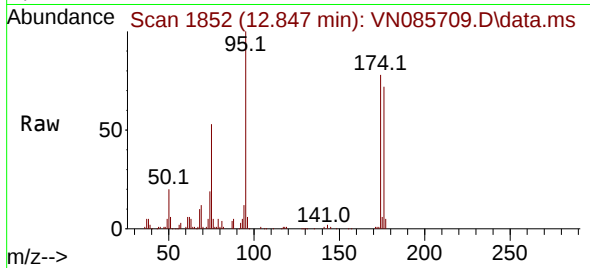




#62
4-Bromofluorobenzene
Concen: 43.690 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

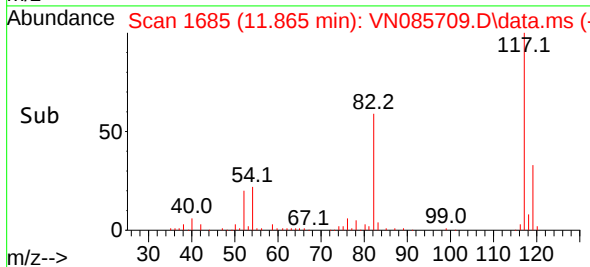
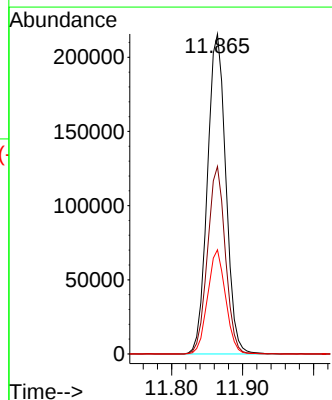
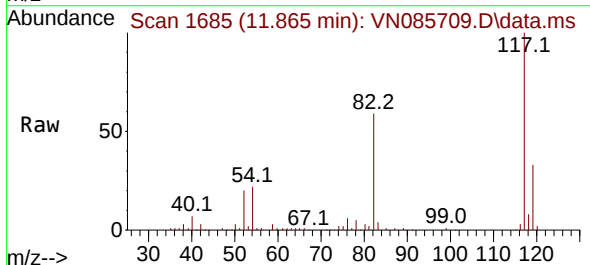
Instrument :
MSVOA_N
ClientSampleId :

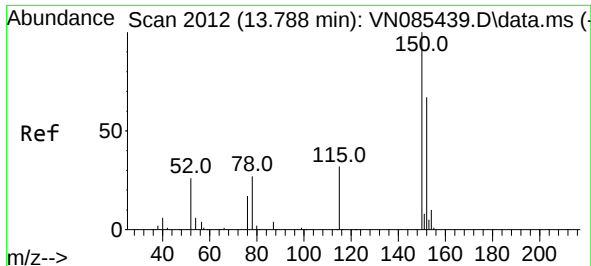
Tgt Ion: 95 Resp: 150505
Ion Ratio Lower Upper
95 100
174 75.8 0.0 145.0
176 73.3 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

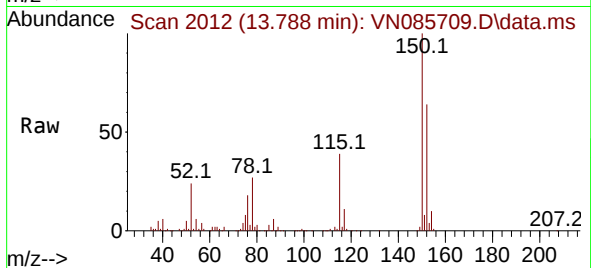
Tgt Ion: 117 Resp: 388529
Ion Ratio Lower Upper
117 100
82 58.6 48.6 72.8
119 32.5 26.6 39.8



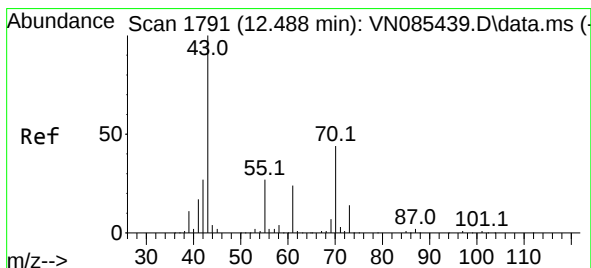
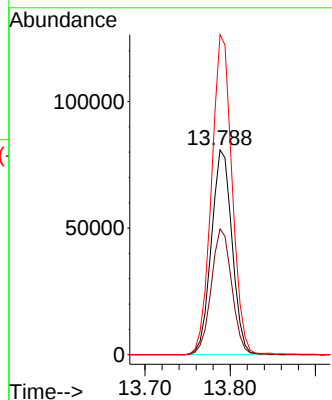
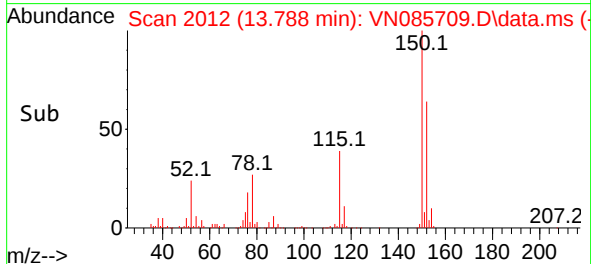


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN085709.D
 Acq: 07 Feb 2025 20:18

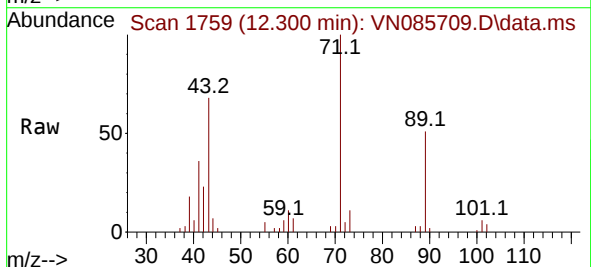
Instrument :
 MSVOA_N
 ClientSampleId :



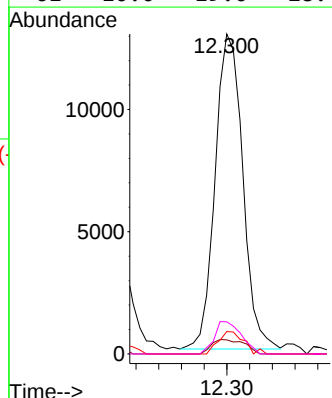
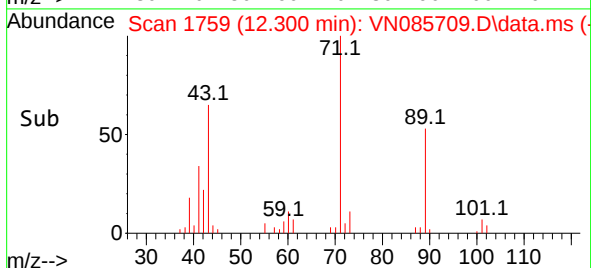
Tgt Ion:152 Resp: 136662
 Ion Ratio Lower Upper
 152 100
 115 61.1 31.1 93.3
 150 155.5 0.0 343.6

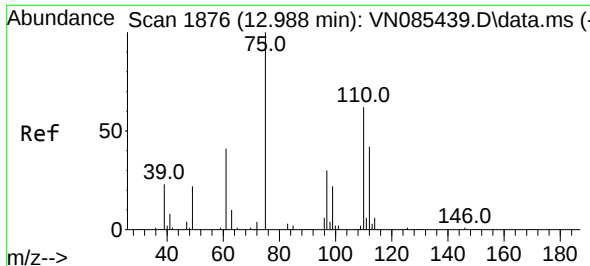


#74
 N-ethyl acetate
 Concen: 5.244 ug/l
 RT: 12.300 min Scan# 1759
 Delta R.T. -0.188 min
 Lab File: VN085709.D
 Acq: 07 Feb 2025 20:18



Tgt Ion: 43 Resp: 21742
 Ion Ratio Lower Upper
 43 100
 70 5.4 34.0 51.0#
 55 6.6 21.4 32.2#
 61 10.0 19.0 28.4#

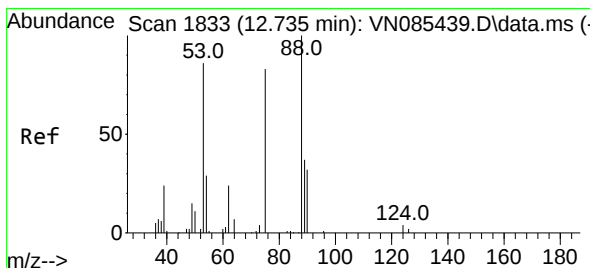
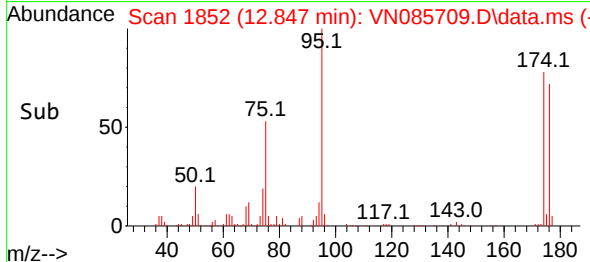
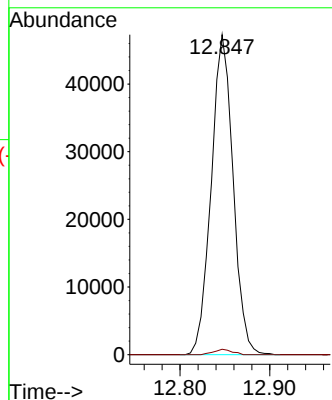
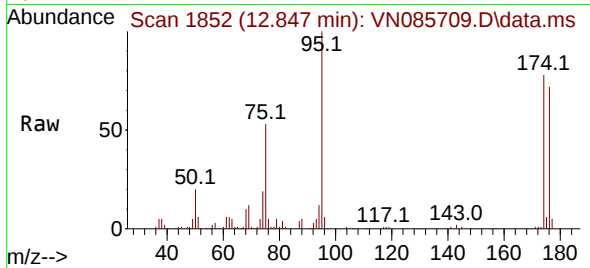




#76
1,2,3-Trichloropropane
Concen: 28.833 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 80088
Ion Ratio Lower Upper
75 100
77 1.4 109.7 329.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 78.009 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085709.D
Acq: 07 Feb 2025 20:18

Tgt Ion: 75 Resp: 80088
Ion Ratio Lower Upper
75 100
53 0.1 95.6 143.4#
89 0.0 37.0 55.6#

