

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
 Data File : VY022845.D
 Acq On : 26 Jun 2025 13:20
 Operator : SY/MD
 Sample : Q2413-06
 Misc : 6.53g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-72

Quant Time: Jun 27 01:27:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

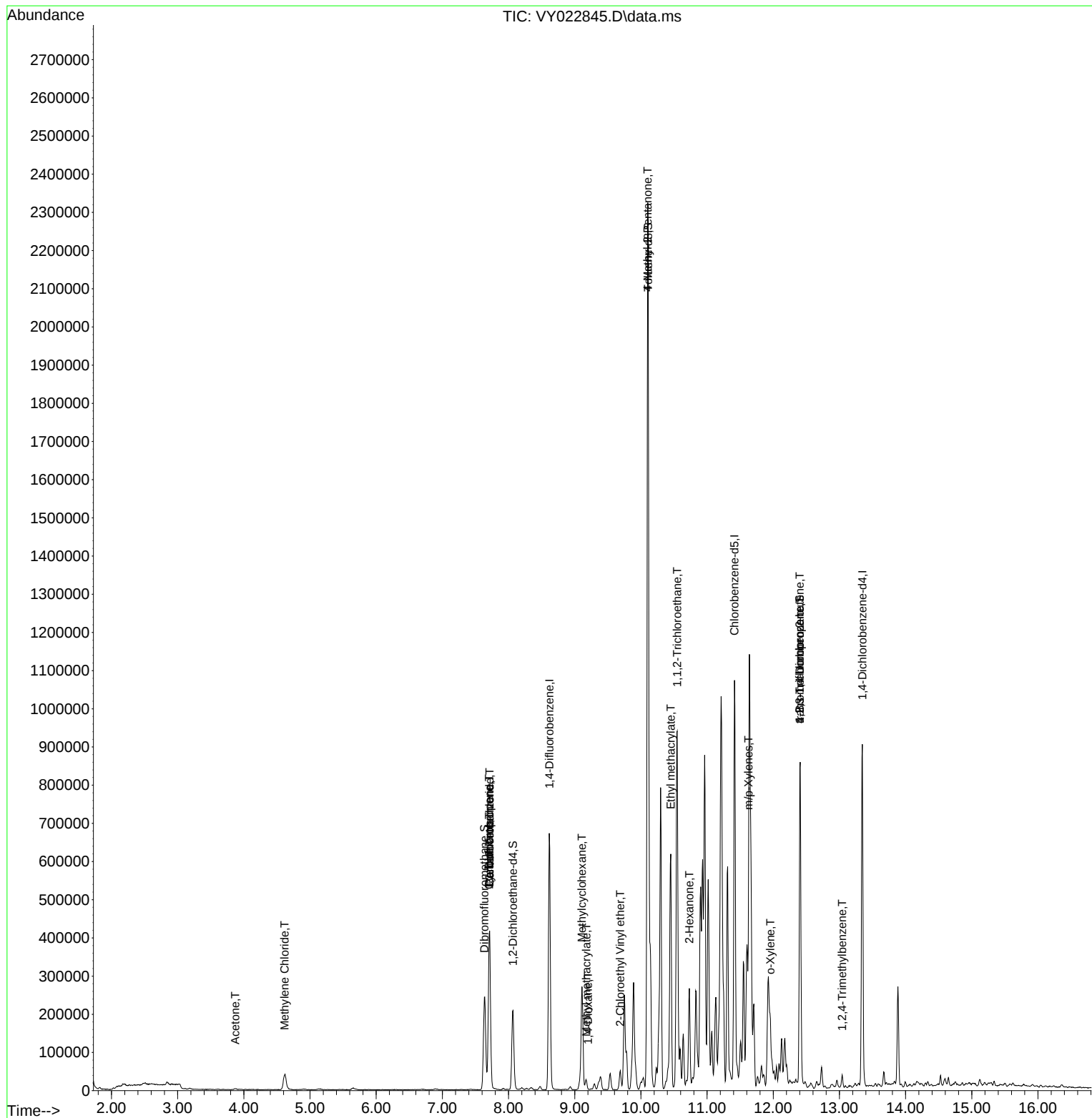
Internal Standards						
1) Pentafluorobenzene	7.713	168	313811	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	566645	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	546225	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	218308	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	167448	47.809	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	95.620%
35) Dibromofluoromethane	7.634	113	173987	50.489	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.980%
50) Toluene-d8	10.109	98	778733	56.948	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	113.900%
62) 4-Bromofluorobenzene	12.401	95	236495	53.799	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	107.600%
Target Compounds						
					Qvalue	
16) Acetone	3.872	43	4427	6.687	ug/l #	80
20) Methylene Chloride	4.616	84	29475	7.050	ug/l	89
31) Cyclohexane	7.707	56	11417	1.898	ug/l #	30
36) 1,1-Dichloropropene	7.707	75	25884	4.955	ug/l #	50
38) Carbon Tetrachloride	7.713	117	31606	5.735	ug/l #	16
39) Methylcyclohexane	9.109	83	106071	15.692	ug/l	96
48) Methyl methacrylate	9.176	41	5326	2.365	ug/l #	33
49) 1,4-Dioxane	9.201	88	61	2.420	ug/l #	24
51) 4-Methyl-2-Pentanone	10.103	43	49516	20.800	ug/l #	63
55) 1,1,2-Trichloroethane	10.548	97	372597	134.858	ug/l #	19
56) Ethyl methacrylate	10.450	69	73967	19.899	ug/l #	30
58) 2-Chloroethyl Vinyl ether	9.688	63	46	15.677	ug/l #	48
59) 2-Hexanone	10.731	43	93958	58.052	ug/l #	29
68) m/p-Xylenes	11.627	106	31440	3.857	ug/l	90
69) o-Xylene	11.956	106	17793	2.316	ug/l	90
76) 1,2,3-Trichloropropane	12.401	75	133089	59.715	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	133089	150.863	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.041	105	15894	1.218	ug/l	97

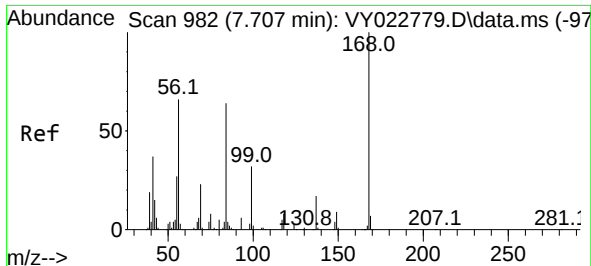
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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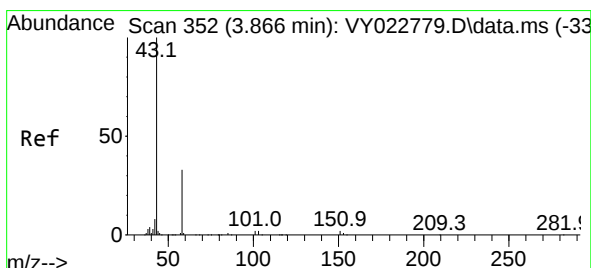
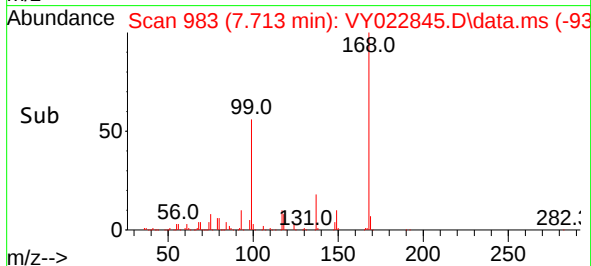
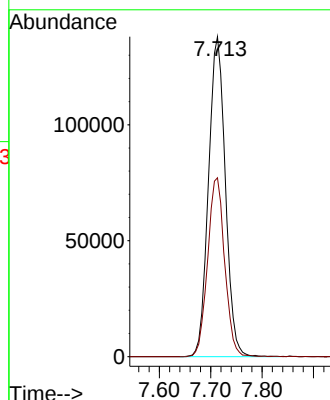
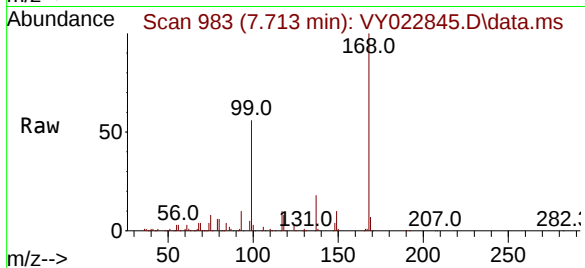




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

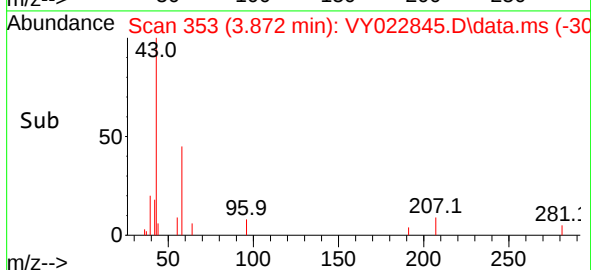
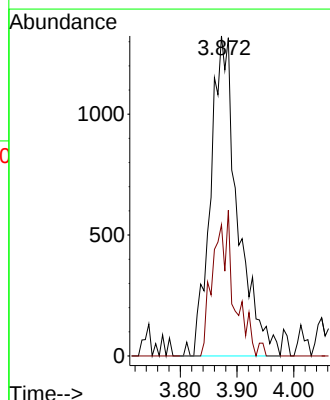
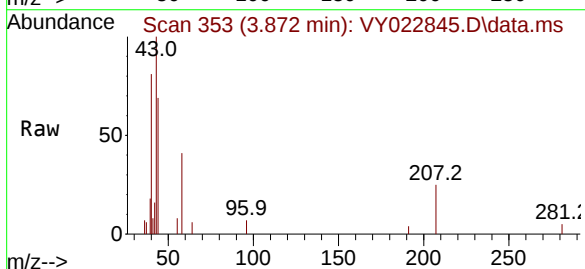
Instrument :
MSVOA_Y
ClientSampleId :
TP-72

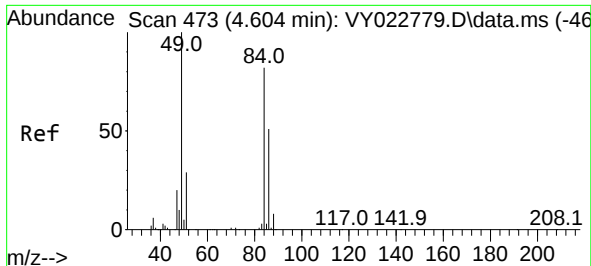
Tgt Ion:168 Resp: 313811
Ion Ratio Lower Upper
168 100
99 55.9 44.3 66.5



#16
Acetone
Concen: 6.687 ug/l
RT: 3.872 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Tgt Ion: 43 Resp: 4427
Ion Ratio Lower Upper
43 100
58 41.0 24.0 36.0#

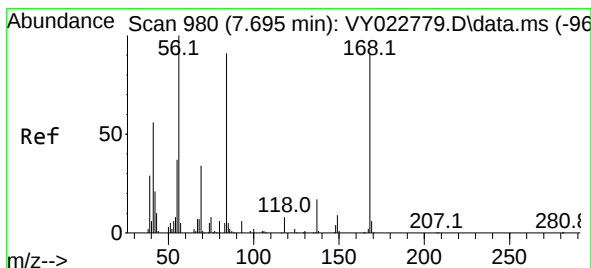
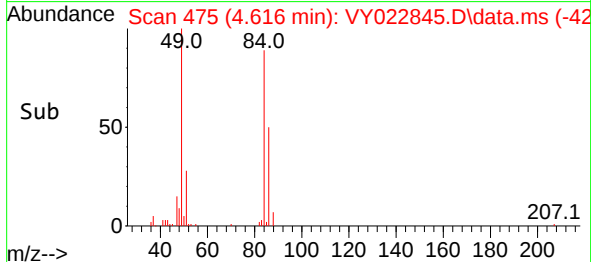
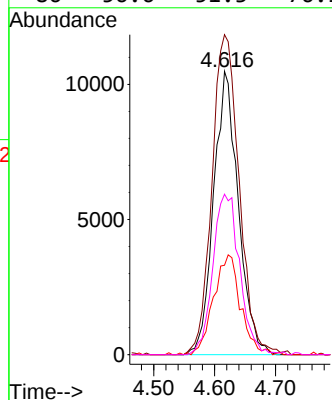
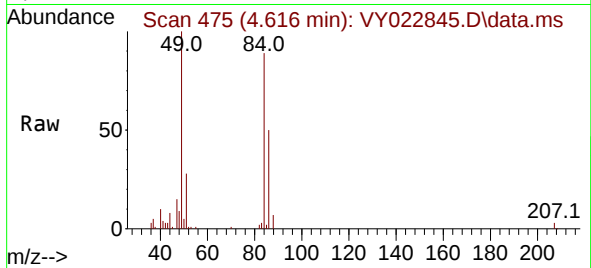




#20
Methylene Chloride
Concen: 7.050 ug/l
RT: 4.616 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

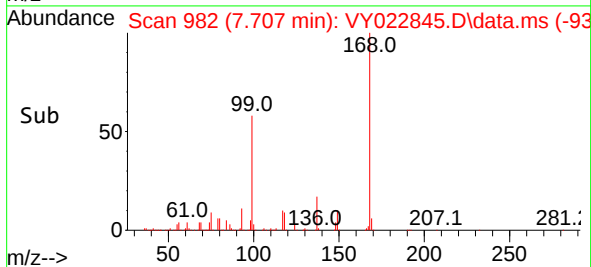
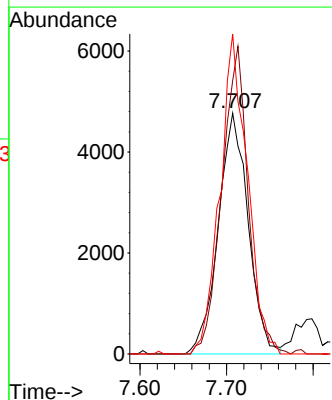
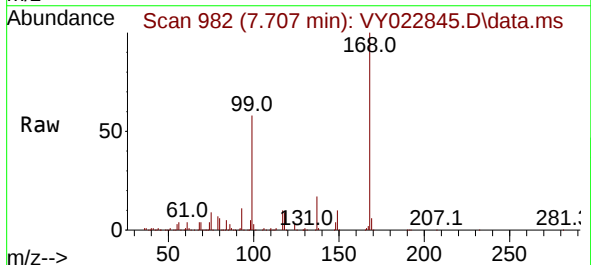
Instrument :
MSVOA_Y
ClientSampleId :
TP-72

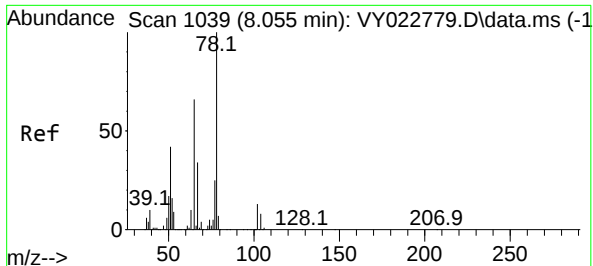
Tgt Ion:	84	Resp:	29475
Ion	Ratio	Lower	Upper
84	100		
49	112.9	101.9	152.9
51	31.0	29.8	44.8
86	56.6	51.3	76.9



#31
Cyclohexane
Concen: 1.898 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.000 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Tgt Ion:	56	Resp:	11417
Ion	Ratio	Lower	Upper
56	100		
69	113.4	27.0	40.6#
84	132.8	72.6	109.0#





#33

1,2-Dichloroethane-d4

Concen: 47.809 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. -0.000 min

Lab File: VY022845.D

Acq: 26 Jun 2025 13:20

Instrument :

MSVOA_Y

ClientSampleId :

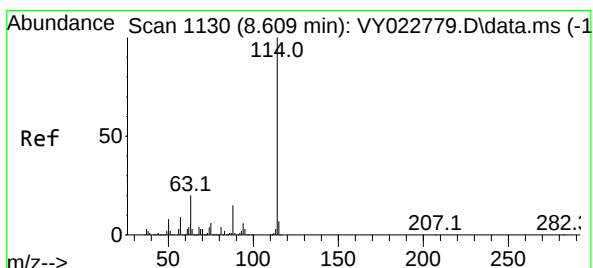
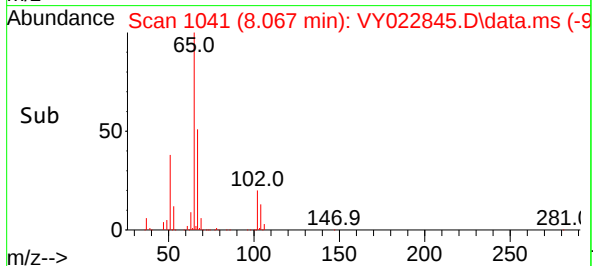
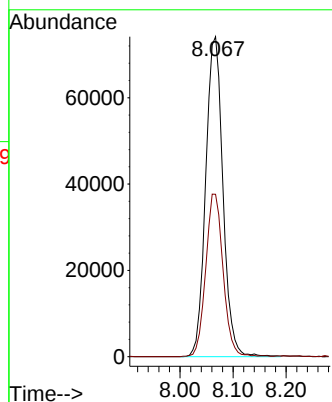
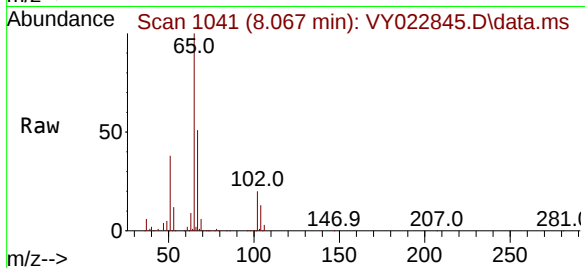
TP-72

Tgt Ion: 65 Resp: 167448

Ion Ratio Lower Upper

65 100

67 51.1 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022845.D

Acq: 26 Jun 2025 13:20

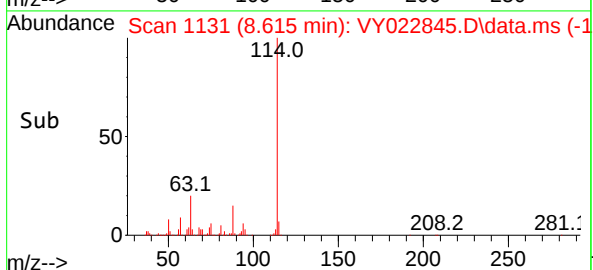
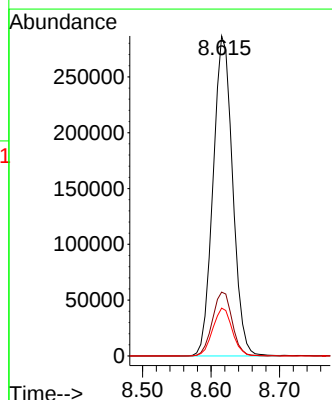
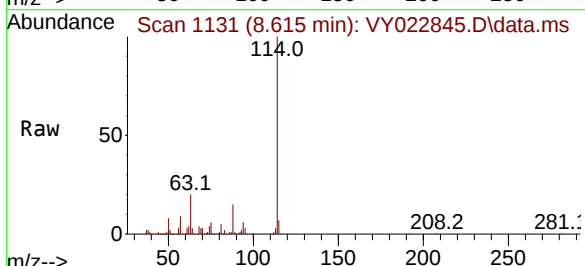
Tgt Ion: 114 Resp: 566645

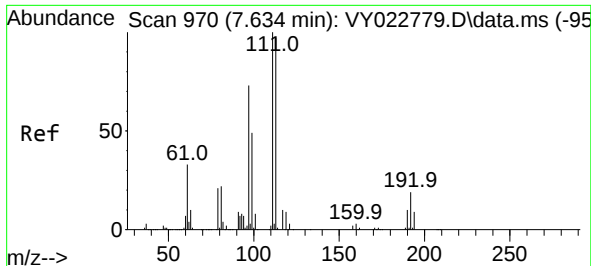
Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.8

88 14.9 0.0 27.8

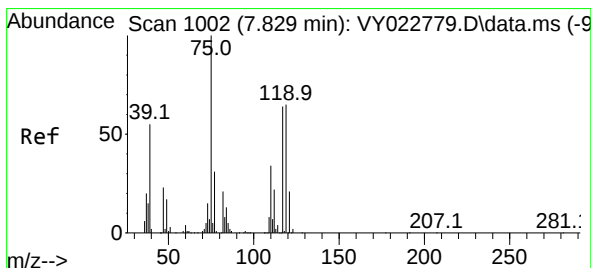
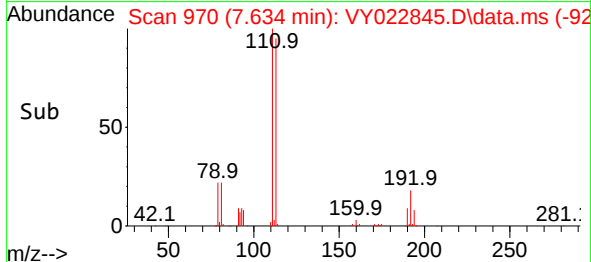
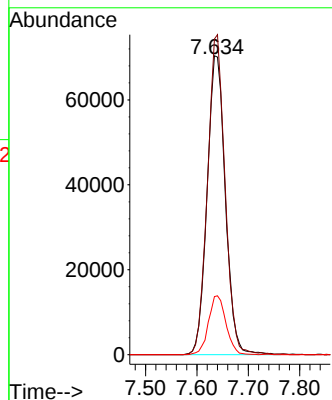
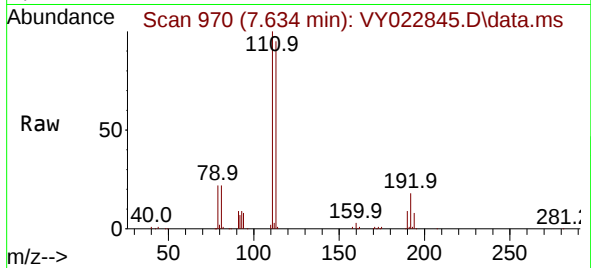




#35
Dibromofluoromethane
Concen: 50.489 ug/l
RT: 7.634 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

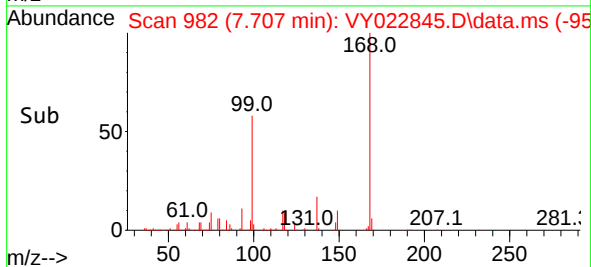
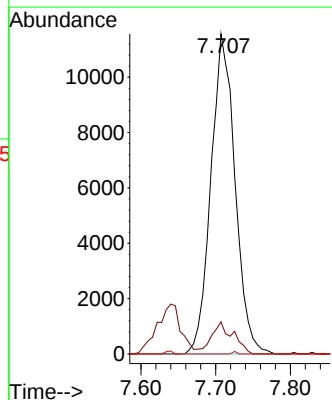
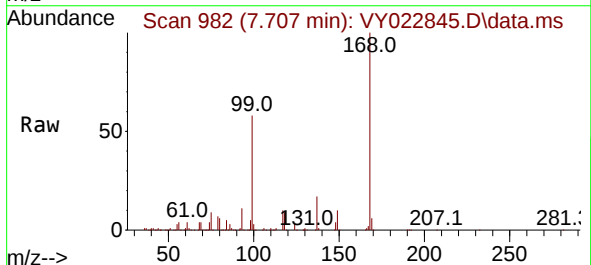
Instrument :
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ClientSampleId :
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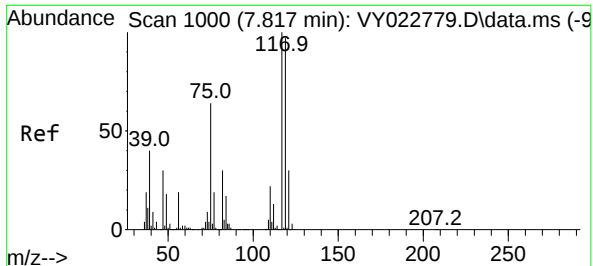
Tgt Ion:113 Resp: 173987
Ion Ratio Lower Upper
113 100
111 102.9 81.1 121.7
192 18.9 14.2 21.2



#36
1,1-Dichloropropene
Concen: 4.955 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.134 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Tgt Ion: 75 Resp: 25884
Ion Ratio Lower Upper
75 100
110 8.9 16.9 50.7#
77 0.1 24.8 37.2#

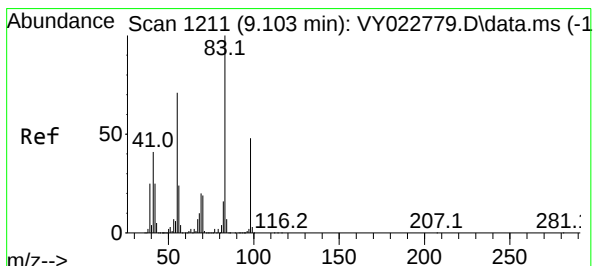
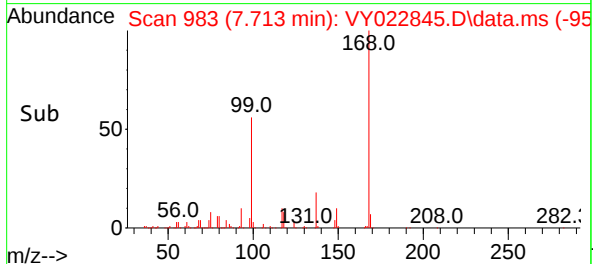
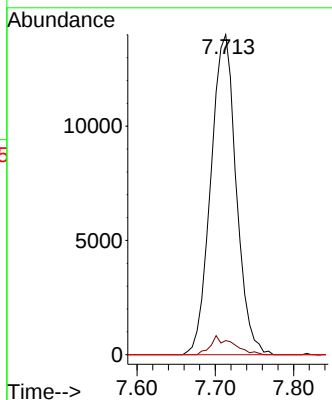
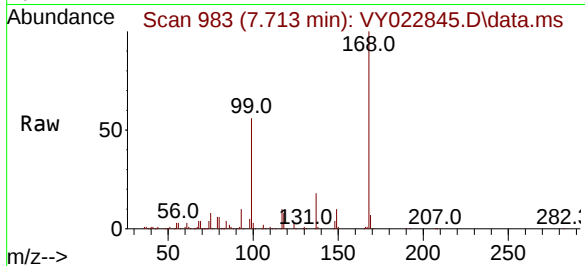




#38
Carbon Tetrachloride
Concen: 5.735 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

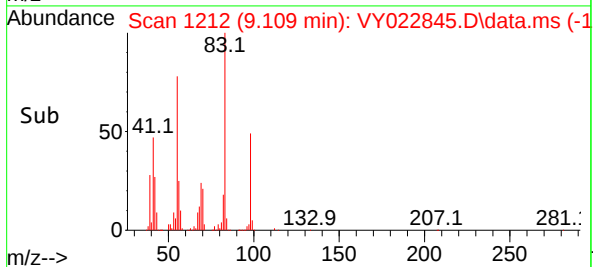
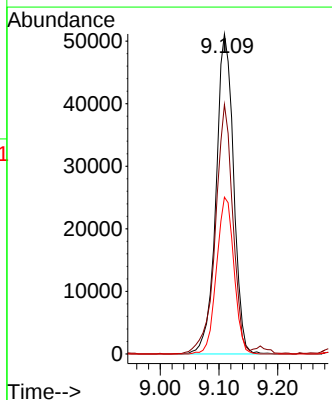
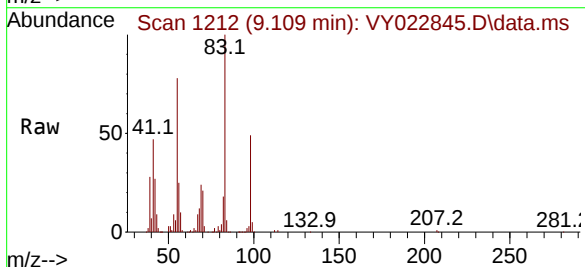
Instrument :
MSVOA_Y
ClientSampleId :
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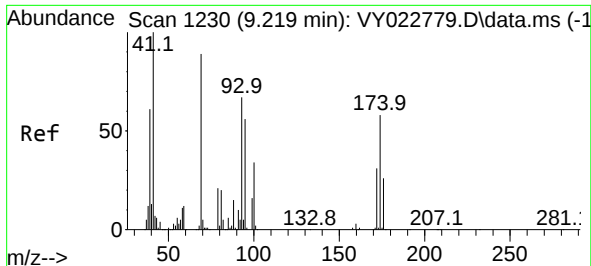
Tgt Ion:117 Resp: 31606
Ion Ratio Lower Upper
117 100
119 4.4 75.0 112.6#
121 0.0 25.0 37.4#



#39
Methylcyclohexane
Concen: 15.692 ug/l
RT: 9.109 min Scan# 1212
Delta R.T. -0.006 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Tgt Ion: 83 Resp: 106071
Ion Ratio Lower Upper
83 100
55 77.8 58.1 87.1
98 49.0 39.0 58.6





#48

Methyl methacrylate

Concen: 2.365 ug/l

RT: 9.176 min Scan# 11

Delta R.T. -0.049 min

Lab File: VY022845.D

Acq: 26 Jun 2025 13:20

Instrument :

MSVOA_Y

ClientSampleId :

TP-72

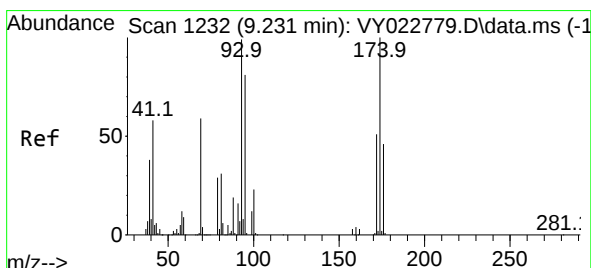
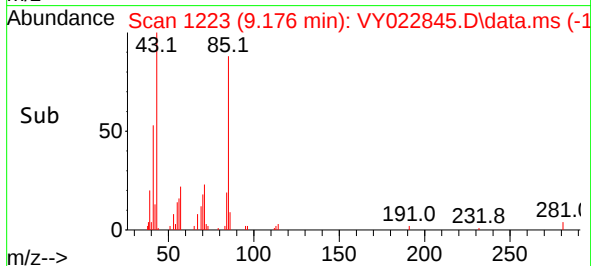
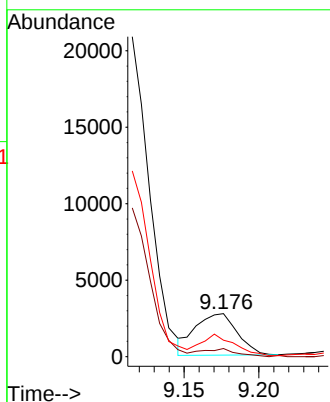
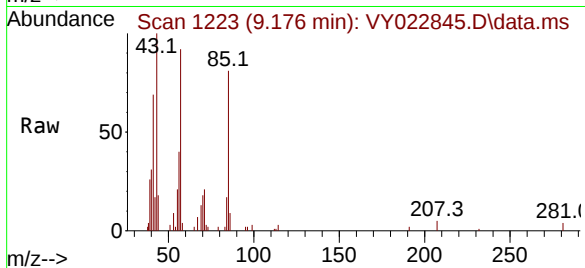
Tgt Ion: 41 Resp: 5326

Ion Ratio Lower Upper

41 100

69 0.0 67.8 101.8#

39 41.2 55.0 82.4#



#49

1,4-Dioxane

Concen: 2.420 ug/l

RT: 9.201 min Scan# 1227

Delta R.T. -0.043 min

Lab File: VY022845.D

Acq: 26 Jun 2025 13:20

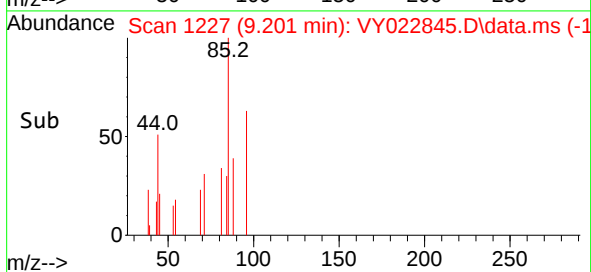
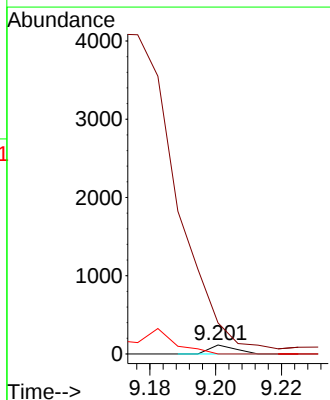
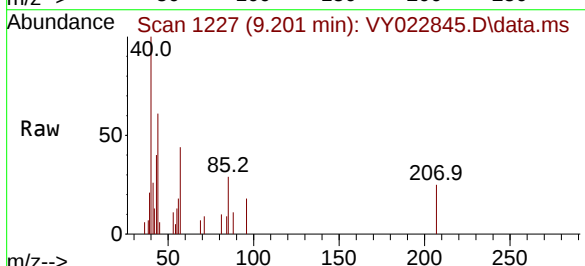
Tgt Ion: 88 Resp: 61

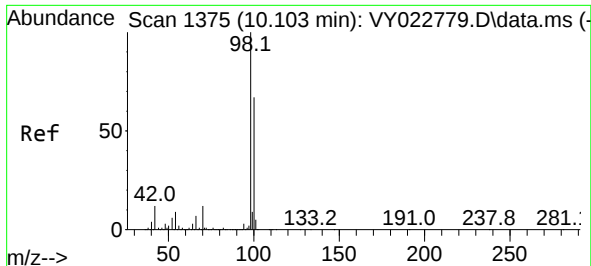
Ion Ratio Lower Upper

88 100

43 0.0 25.4 38.2#

58 0.0 54.9 82.3#

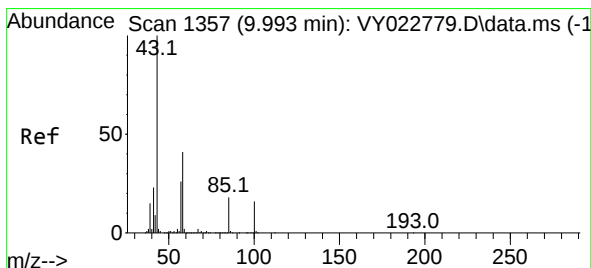
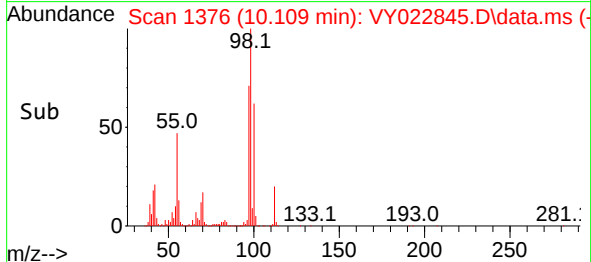
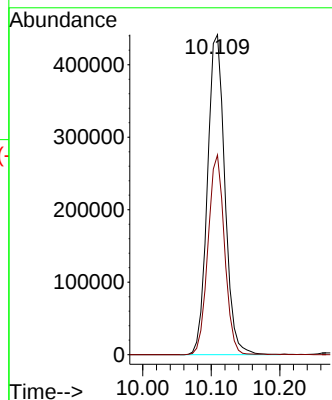
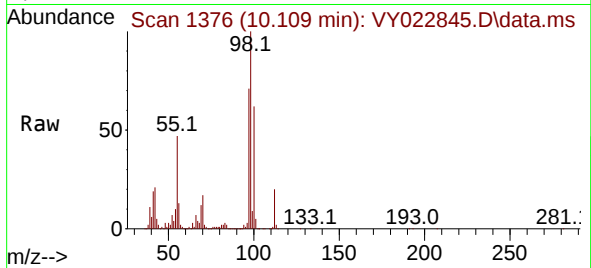




#50
Toluene-d8
Concen: 56.948 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

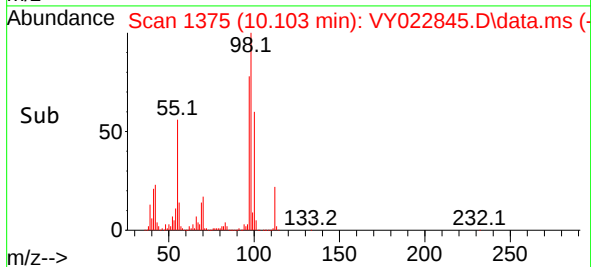
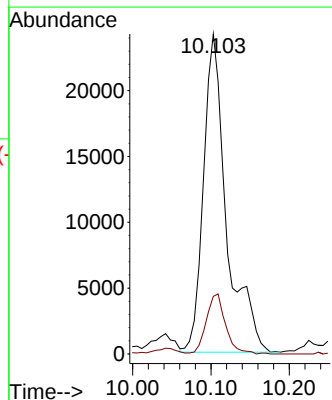
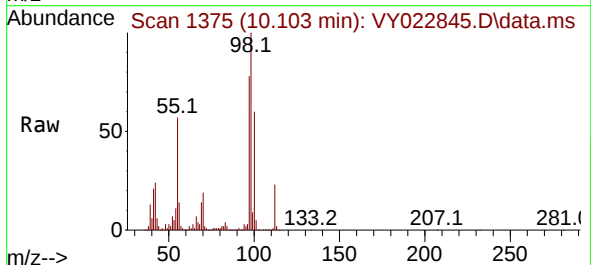
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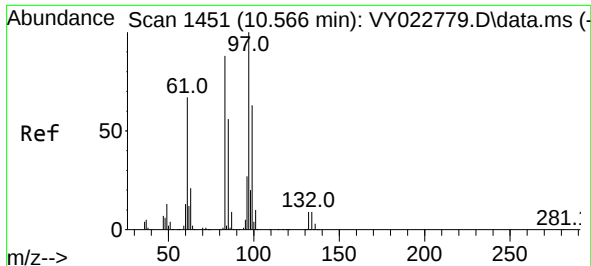
Tgt Ion: 98 Resp: 778733
Ion Ratio Lower Upper
98 100
100 59.5 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 20.800 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.103 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Tgt Ion: 43 Resp: 49516
Ion Ratio Lower Upper
43 100
58 15.8 30.4 45.6#

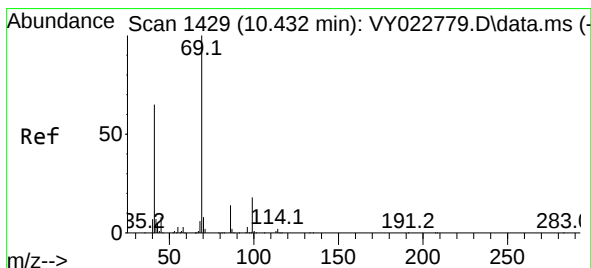
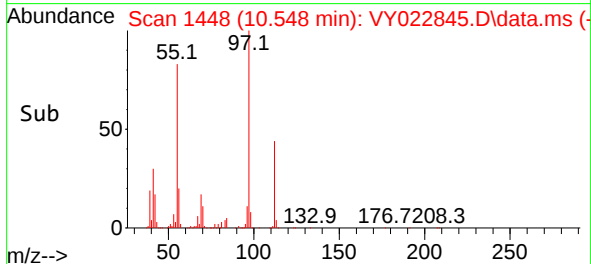
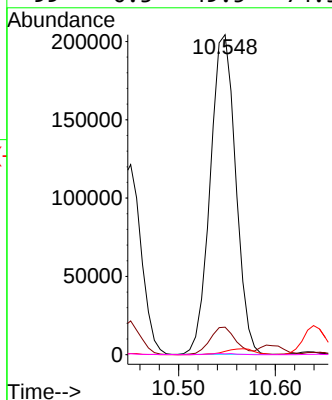
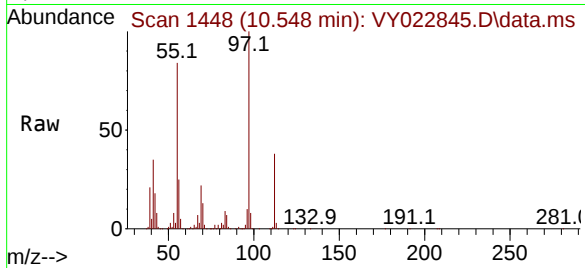




#55
1,1,2-Trichloroethane
Concen: 134.858 ug/l
RT: 10.548 min Scan# 1448
Delta R.T. -0.025 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

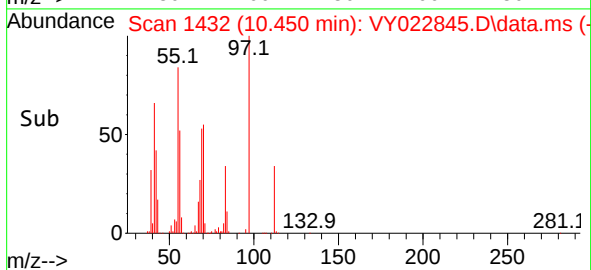
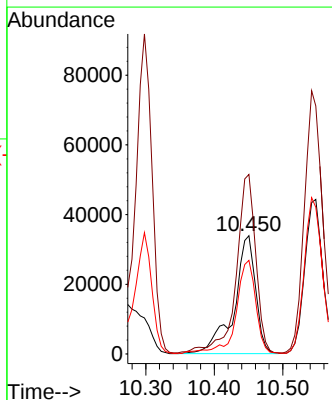
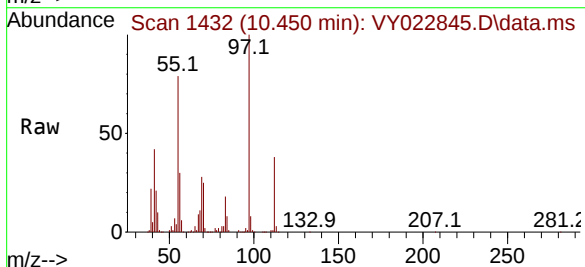
Instrument :
MSVOA_Y
ClientSampleId :
TP-72

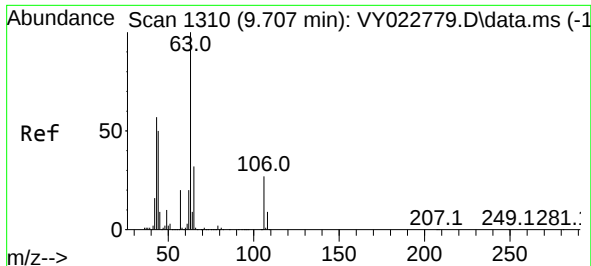
Tgt Ion: 97 Resp: 372597
Ion Ratio Lower Upper
97 100
83 8.6 68.1 102.1#
85 1.0 48.2 72.2#
99 0.3 49.5 74.3#



#56
Ethyl methacrylate
Concen: 19.899 ug/l
RT: 10.450 min Scan# 1432
Delta R.T. 0.006 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Tgt Ion: 69 Resp: 73967
Ion Ratio Lower Upper
69 100
41 137.4 52.2 78.2#
39 72.0 36.7 55.1#





#58

2-Chloroethyl Vinyl ether

Concen: 15.677 ug/l

RT: 9.688 min Scan# 11

Delta R.T. -0.025 min

Lab File: VY022845.D

Acq: 26 Jun 2025 13:20

Instrument :

MSVOA_Y

ClientSampleId :

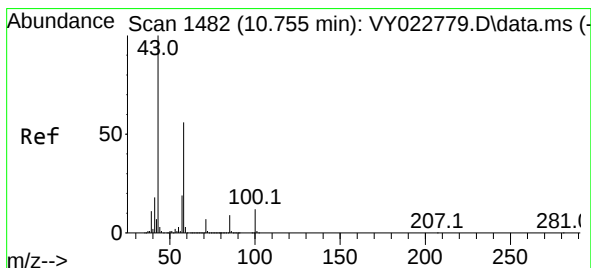
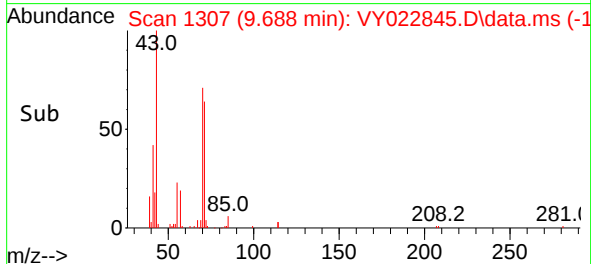
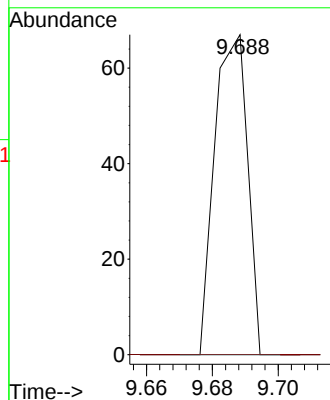
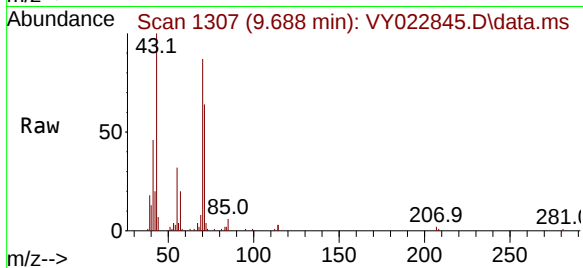
TP-72

Tgt Ion: 63 Resp: 46

Ion Ratio Lower Upper

63 100

106 0.0 21.6 32.4#



#59

2-Hexanone

Concen: 58.052 ug/l

RT: 10.731 min Scan# 1478

Delta R.T. -0.031 min

Lab File: VY022845.D

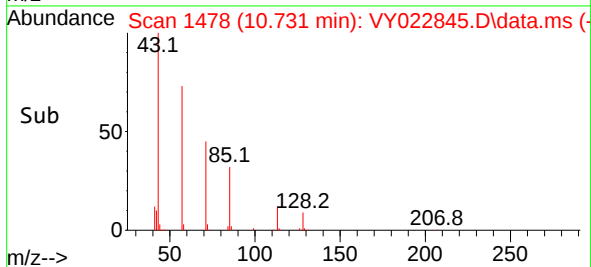
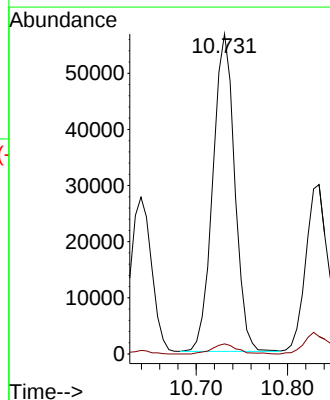
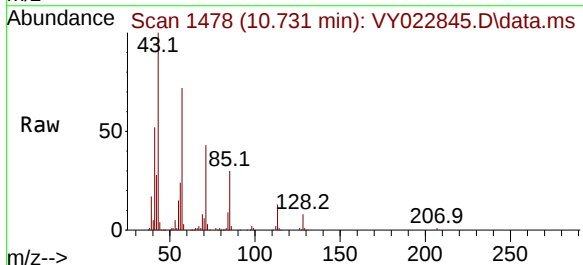
Acq: 26 Jun 2025 13:20

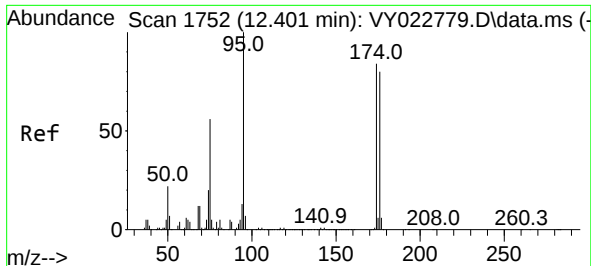
Tgt Ion: 43 Resp: 93958

Ion Ratio Lower Upper

43 100

58 3.6 27.3 81.8#

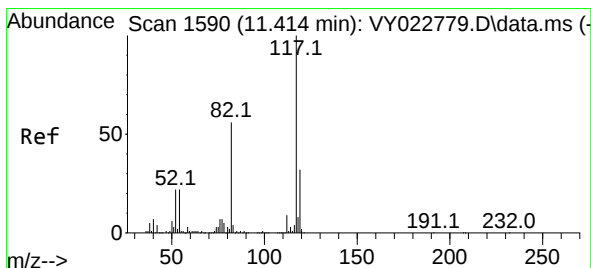
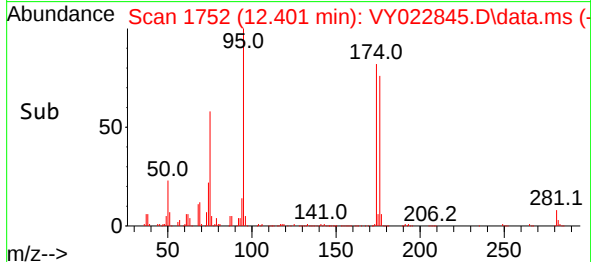
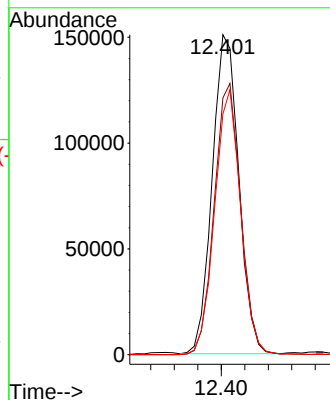
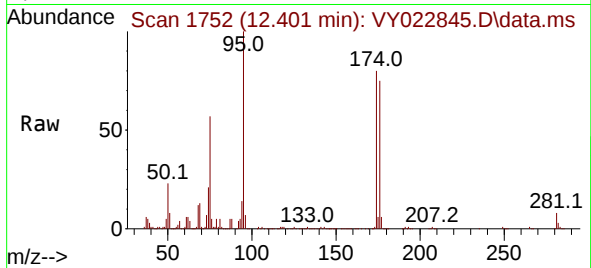




#62
4-Bromofluorobenzene
Concen: 53.799 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

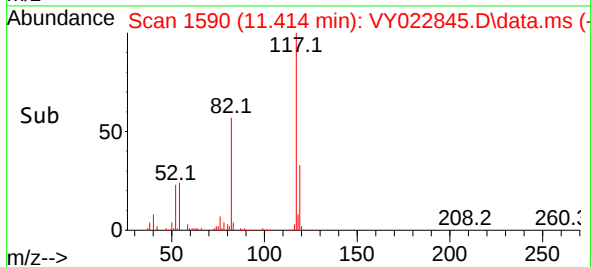
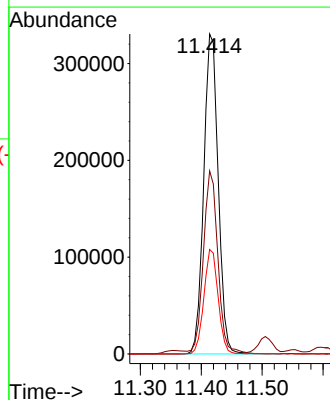
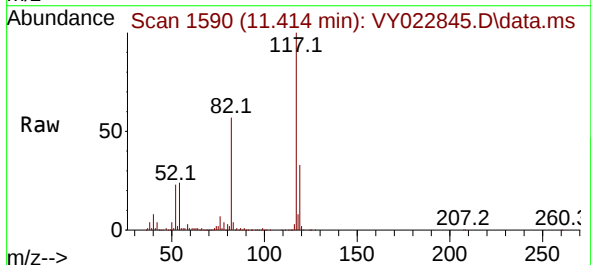
Instrument :
MSVOA_Y
ClientSampleId :
TP-72

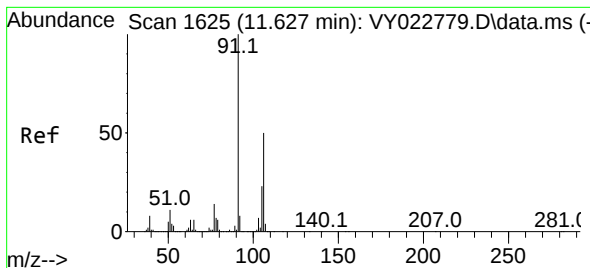
Tgt Ion: 95 Resp: 236495
Ion Ratio Lower Upper
95 100
174 84.8 0.0 170.0
176 81.5 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Tgt Ion: 117 Resp: 546225
Ion Ratio Lower Upper
117 100
82 56.5 44.6 66.8
119 32.7 25.4 38.0

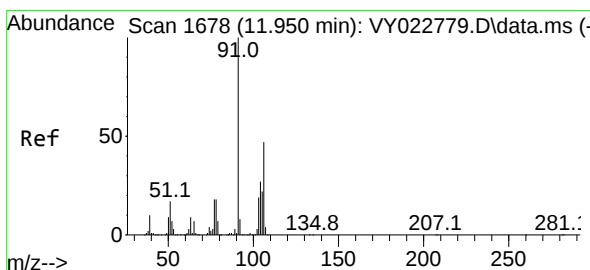
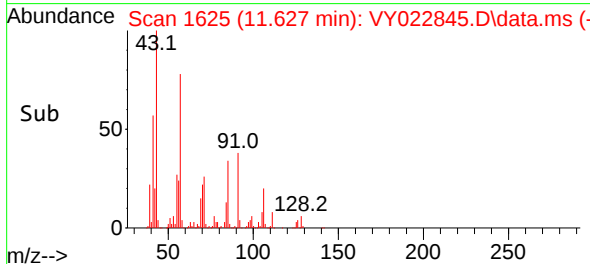
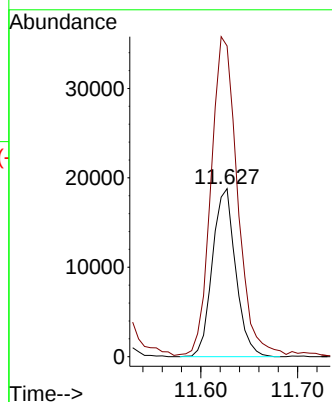
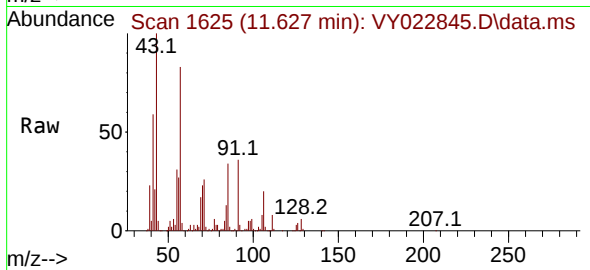




#68
m/p-Xylenes
Concen: 3.857 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.006 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

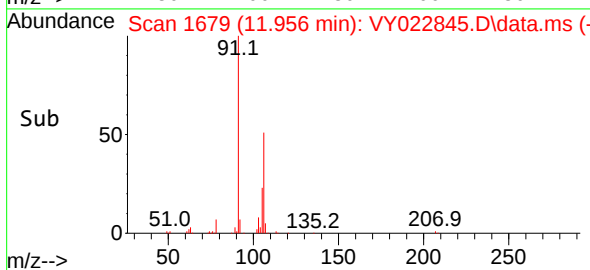
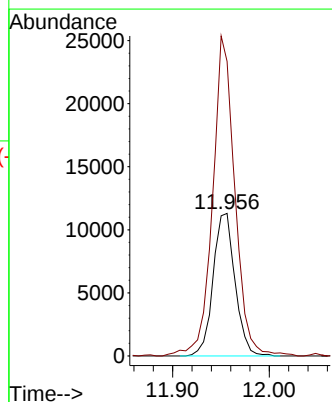
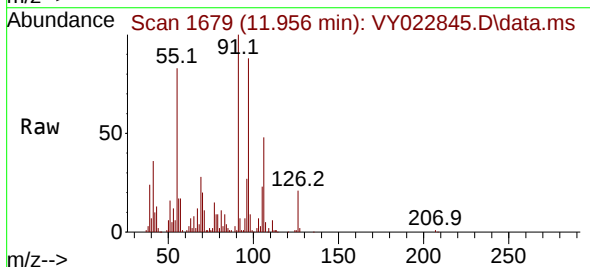
Instrument :
MSVOA_Y
ClientSampleId :
TP-72

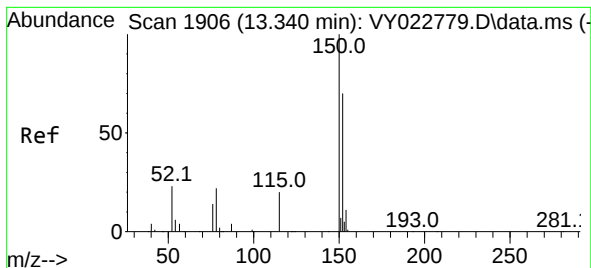
Tgt Ion:106 Resp: 31440
Ion Ratio Lower Upper
106 100
91 214.8 159.4 239.0



#69
o-Xylene
Concen: 2.316 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. -0.000 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Tgt Ion:106 Resp: 17793
Ion Ratio Lower Upper
106 100
91 227.7 105.8 317.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1906

Delta R.T. -0.000 min

Lab File: VY022845.D

Acq: 26 Jun 2025 13:20

Instrument :

MSVOA_Y

ClientSampleId :

TP-72

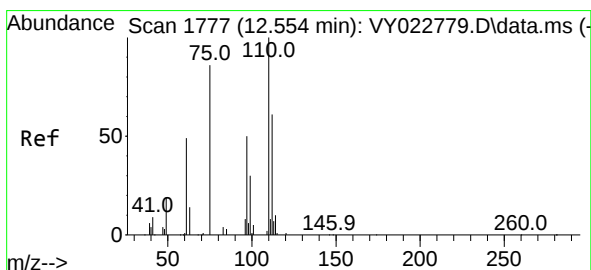
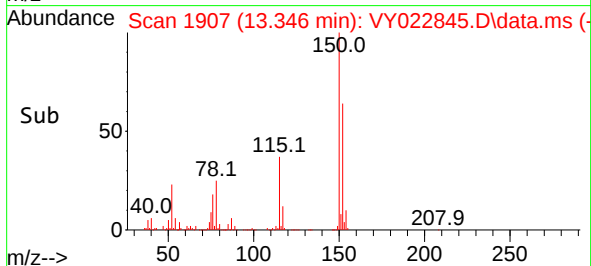
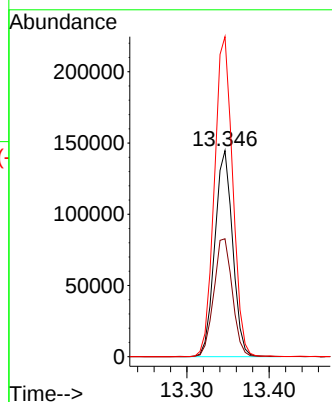
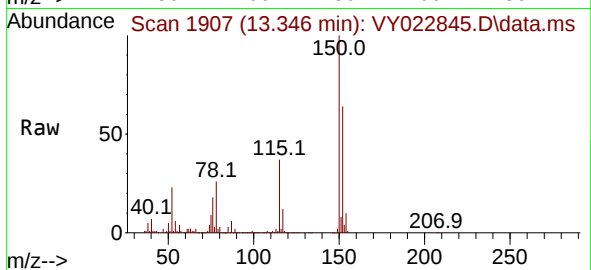
Tgt Ion:152 Resp: 218308

Ion Ratio Lower Upper

152 100

115 59.3 28.9 86.7

150 159.2 0.0 349.6



#76

1,2,3-Trichloropropane

Concen: 59.715 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.153 min

Lab File: VY022845.D

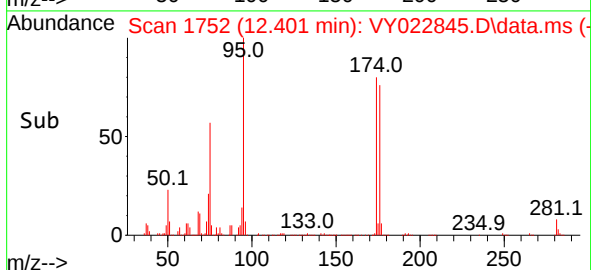
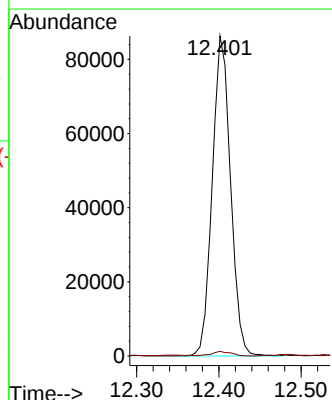
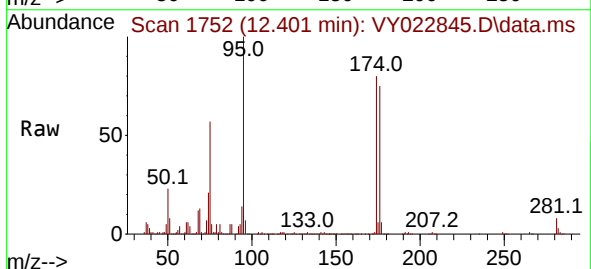
Acq: 26 Jun 2025 13:20

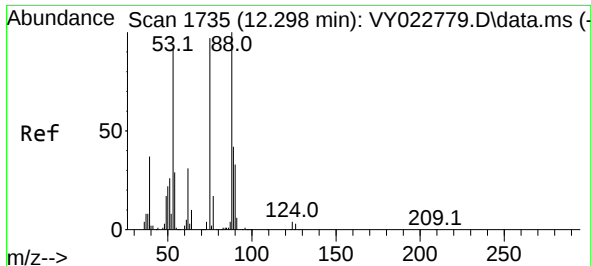
Tgt Ion: 75 Resp: 133089

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#

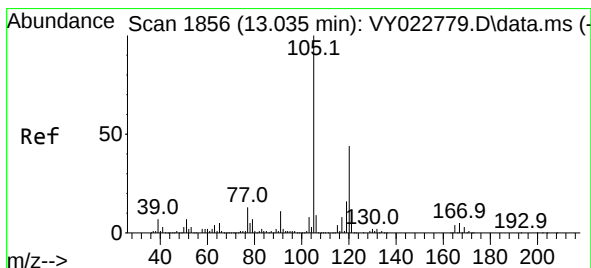
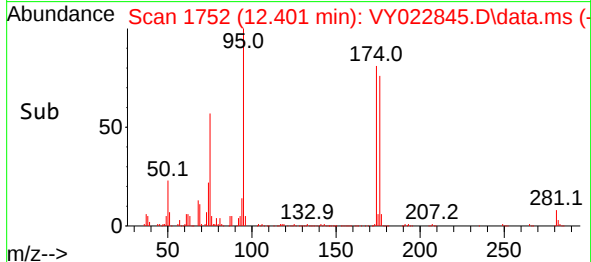
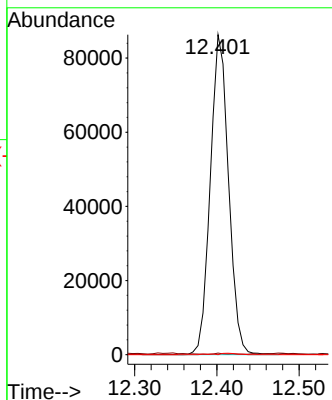
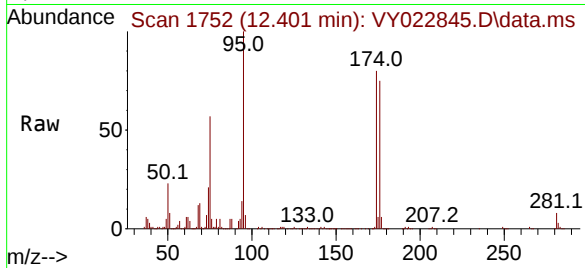




#81
trans-1,4-Dichloro-2-butene
Concen: 150.863 ug/l
RT: 12.401 min Scan# 11
Delta R.T. 0.097 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

Tgt Ion: 75 Resp: 133089
Ion Ratio Lower Upper
75 100
53 0.2 78.5 117.7#
89 0.5 35.7 53.5#



#84
1,2,4-Trimethylbenzene
Concen: 1.218 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Tgt Ion: 105 Resp: 15894
Ion Ratio Lower Upper
105 100
120 43.2 22.7 68.1

