

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
 Data File : VY021692.D
 Acq On : 28 Mar 2025 15:14
 Operator : SY/MD
 Sample : Q1650-02
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 STOCK-PILE-BIN2

Quant Time: Mar 28 23:44:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

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

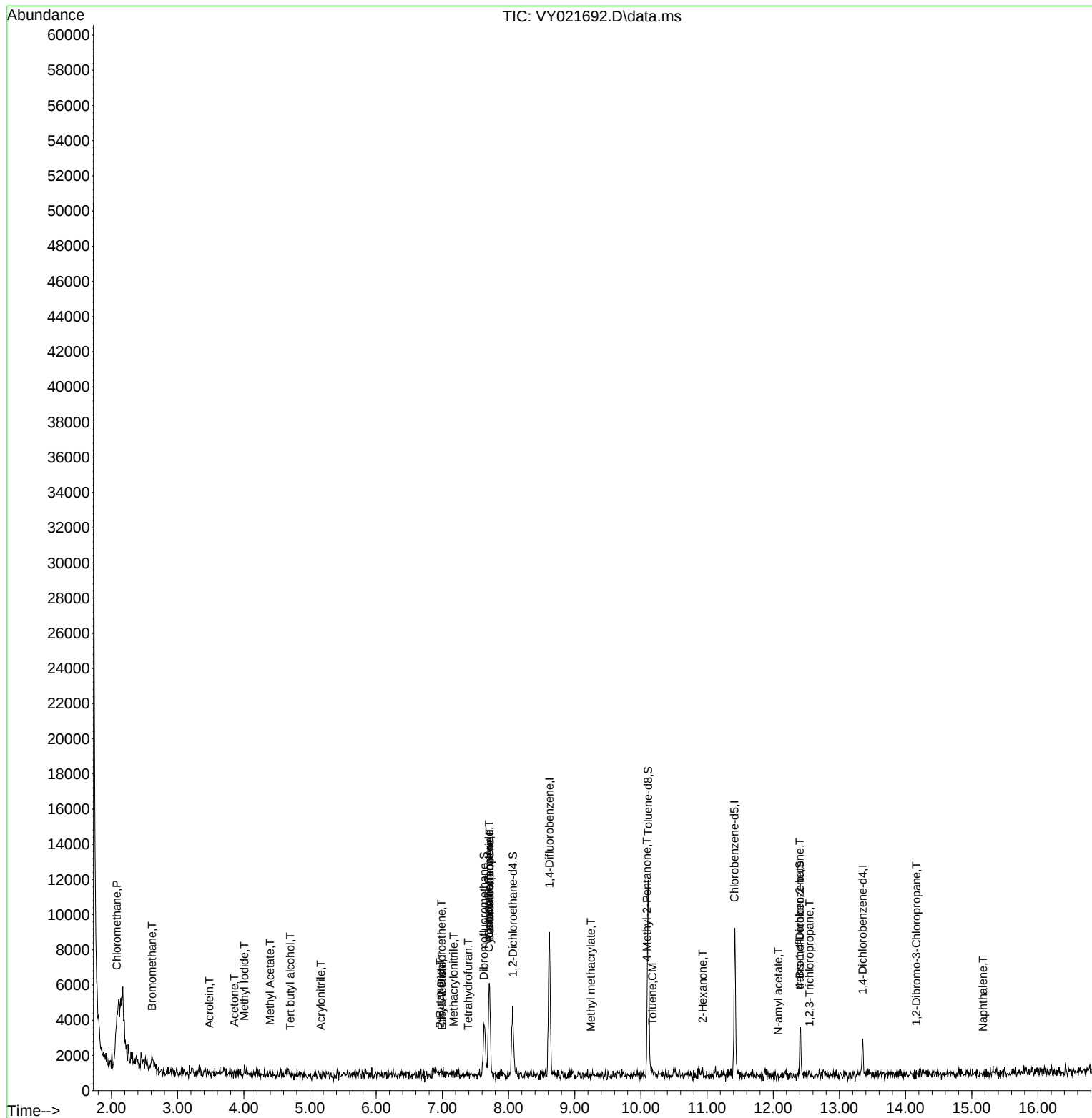
Internal Standards						
1) Pentafluorobenzene	7.713	168	4138	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	6686	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	4425	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	517	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	3065	68.363	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 136.720%	
35) Dibromofluoromethane	7.628	113	2094	48.281	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 96.560%	
50) Toluene-d8	10.109	98	7357	44.589	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 89.180%	
62) 4-Bromofluorobenzene	12.402	95	935	16.753	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 33.500%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.080	50	322	5.339	ug/l	94
5) Bromomethane	2.611	94	236	5.073	ug/l #	52
10) Methyl Iodide	4.007	142	500	9.891	ug/l #	64
11) Tert butyl alcohol	4.702	59	23	7.898	ug/l #	70
13) Acrolein	3.476	56	22	4.137	ug/l #	14
15) Acrylonitrile	5.165	53	25	2.520	ug/l #	18
16) Acetone	3.854	43	119	12.969	ug/l #	44
18) Methyl Acetate	4.397	43	55	2.419	ug/l #	51
20) Methylene Chloride	4.568	84	56	Below Cal	#	5
25) 2-Butanone	6.964	43	39	2.976	ug/l #	48
27) cis-1,2-Dichloroethene	6.988	96	55	1.023	ug/l #	1
29) Tetrahydrofuran	7.390	42	22	2.608	ug/l #	34
31) Cyclohexane	7.701	56	112	1.415	ug/l #	67
36) 1,1-Dichloropropene	7.713	75	531	8.038	ug/l #	42
37) Ethyl Acetate	6.994	43	53	1.700	ug/l #	69
38) Carbon Tetrachloride	7.707	117	243	3.212	ug/l #	12
41) Methacrylonitrile	7.171	41	54	3.261	ug/l #	100
48) Methyl methacrylate	9.244	41	59	2.176	ug/l #	12
51) 4-Methyl-2-Pentanone	10.091	43	60	1.951	ug/l #	1
52) Toluene	10.176	92	127	1.029	ug/l #	55
59) 2-Hexanone	10.932	43	46	2.246	ug/l #	24
74) N-amyl acetate	12.079	43	22	2.441	ug/l #	42
76) 1,2,3-Trichloropropane	12.548	75	22	4.293	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	417	187.488	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.164	75	26	24.298	ug/l #	1
95) Naphthalene	15.169	128	23	1.618	ug/l #	68

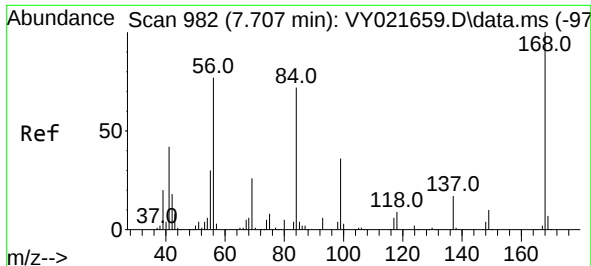
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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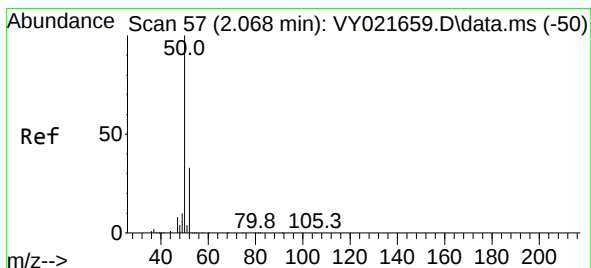
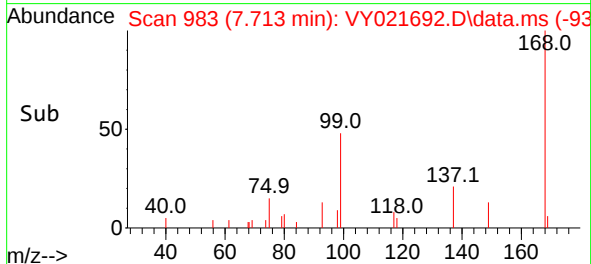
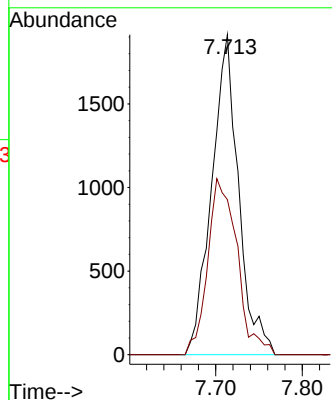
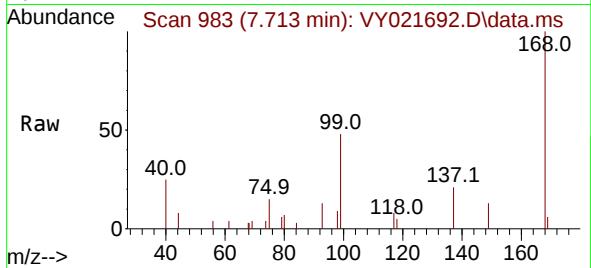




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

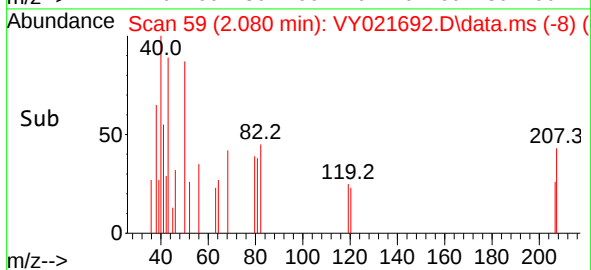
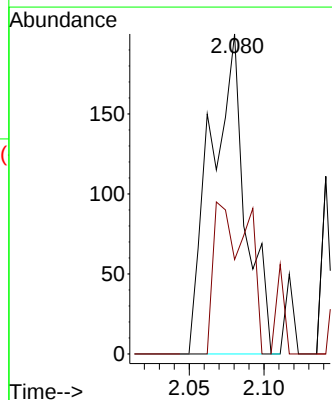
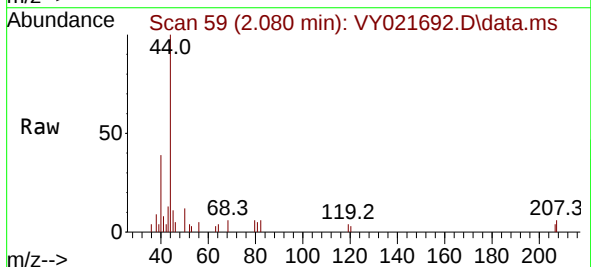
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

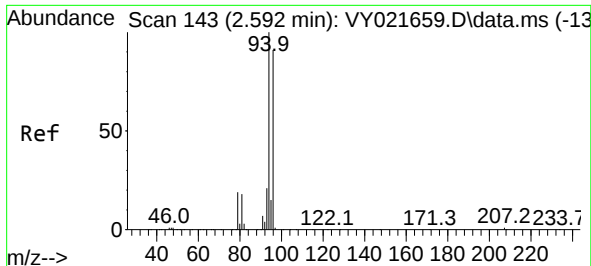
Tgt Ion:168 Resp: 4138
Ion Ratio Lower Upper
168 100
99 48.5 46.7 70.1



#3
Chloromethane
Concen: 5.339 ug/l
RT: 2.080 min Scan# 59
Delta R.T. 0.012 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

Tgt Ion: 50 Resp: 322
Ion Ratio Lower Upper
50 100
52 29.5 26.3 39.5

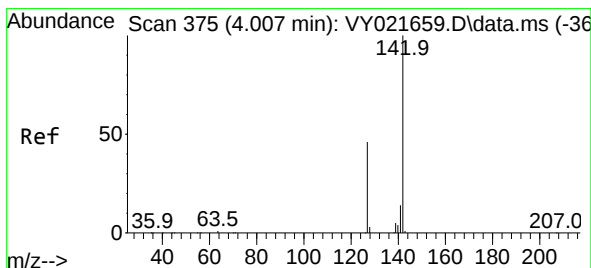
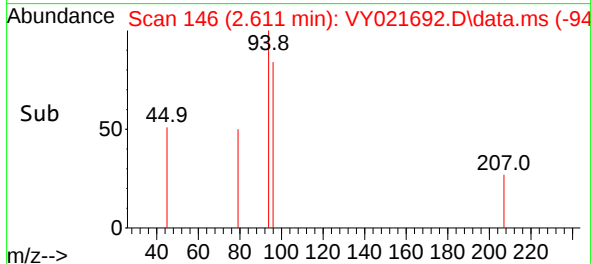
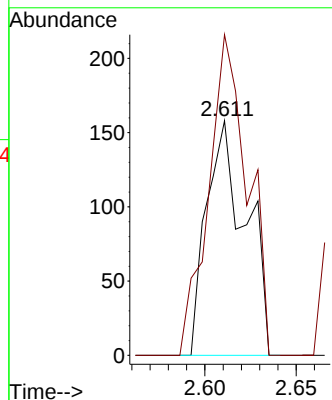
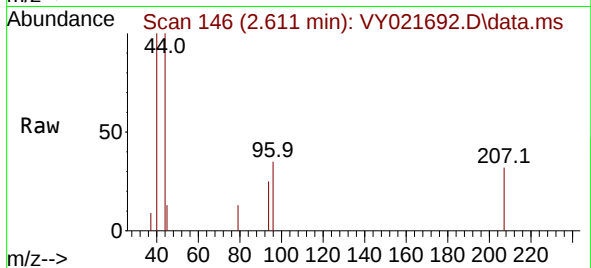




#5
Bromomethane
Concen: 5.073 ug/l
RT: 2.611 min Scan# 143
Delta R.T. 0.019 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

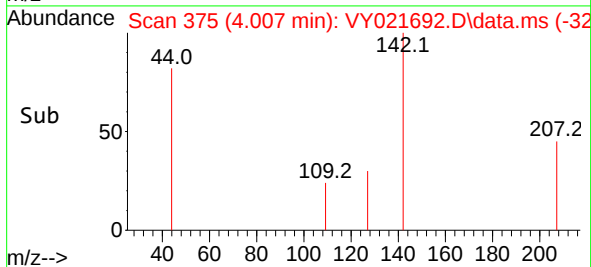
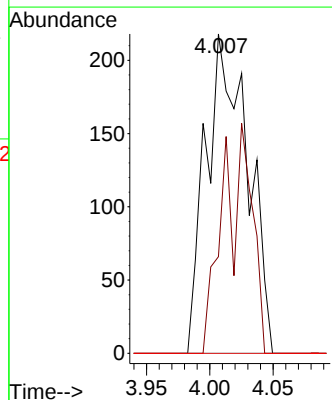
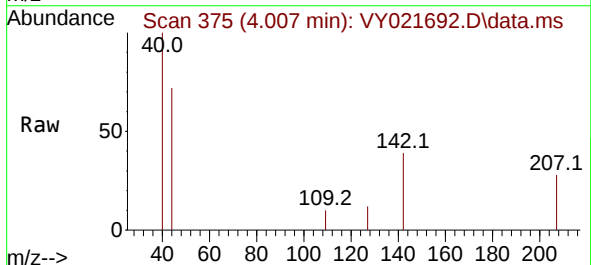
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

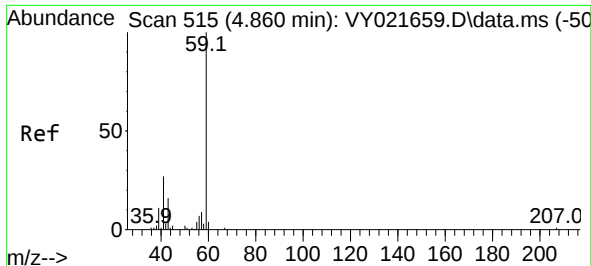
Tgt Ion: 94 Resp: 236
Ion Ratio Lower Upper
94 100
96 136.7 72.8 109.2#



#10
Methyl Iodide
Concen: 9.891 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.000 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

Tgt Ion: 142 Resp: 500
Ion Ratio Lower Upper
142 100
127 23.8 38.7 58.1#
141 0.0 11.5 17.3#

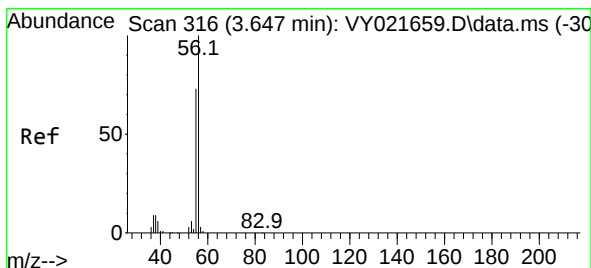
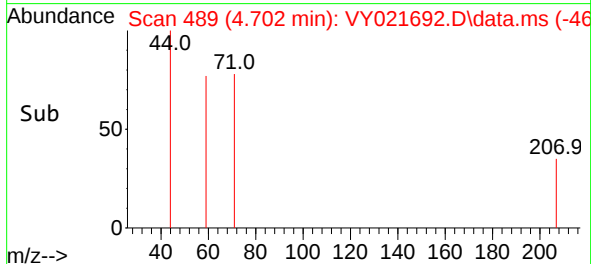
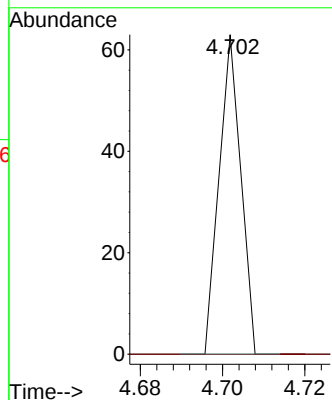
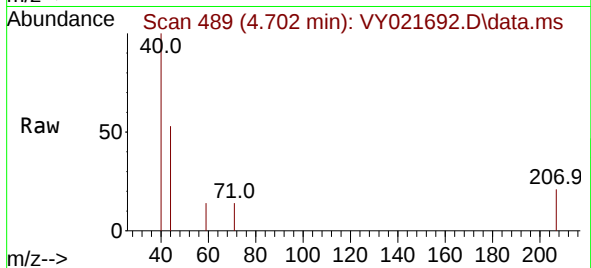




#11
Tert butyl alcohol
Concen: 7.898 ug/l
RT: 4.702 min Scan# 41
Delta R.T. -0.158 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

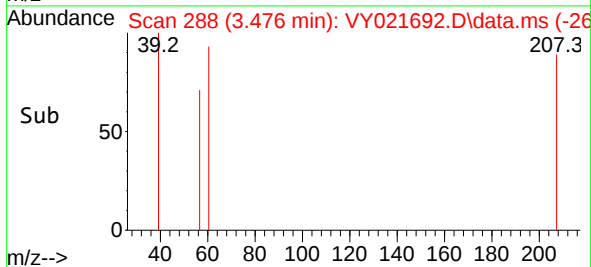
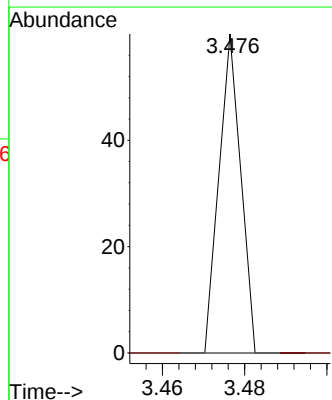
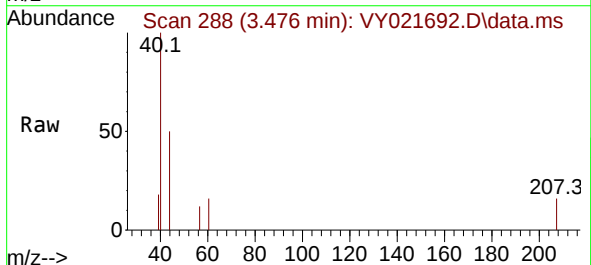
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

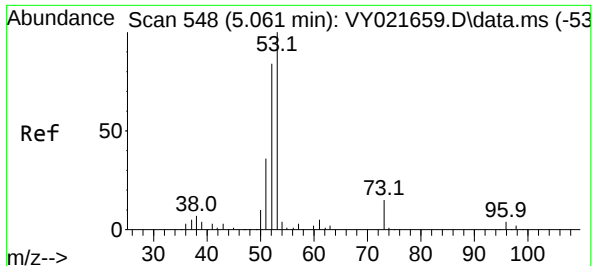
Tgt Ion: 59 Resp: 23
Ion Ratio Lower Upper
59 100
57 0.0 9.2 13.8#



#13
Acrolein
Concen: 4.137 ug/l
RT: 3.476 min Scan# 288
Delta R.T. -0.170 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

Tgt Ion: 56 Resp: 22
Ion Ratio Lower Upper
56 100
55 0.0 56.6 85.0#

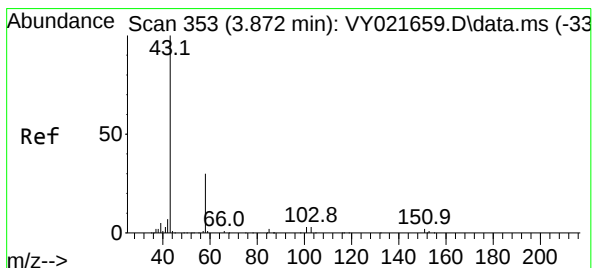
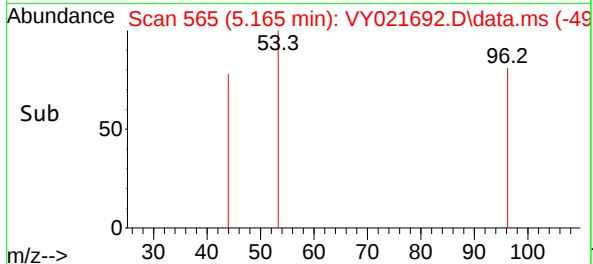
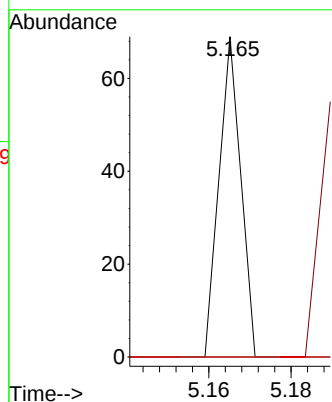
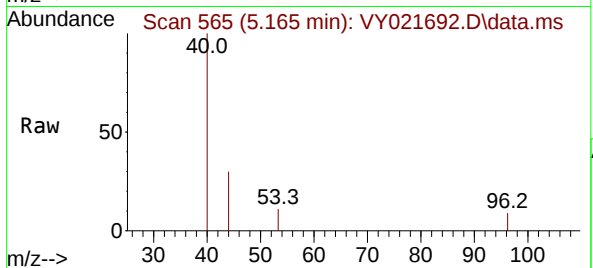




#15
Acrylonitrile
Concen: 2.520 ug/l
RT: 5.165 min Scan# 51
Delta R.T. 0.104 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

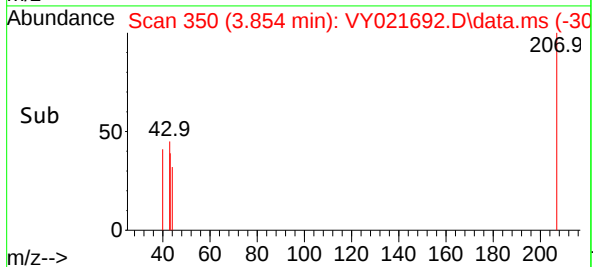
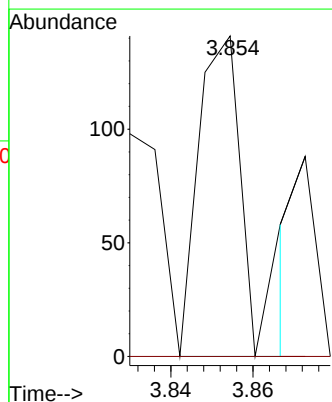
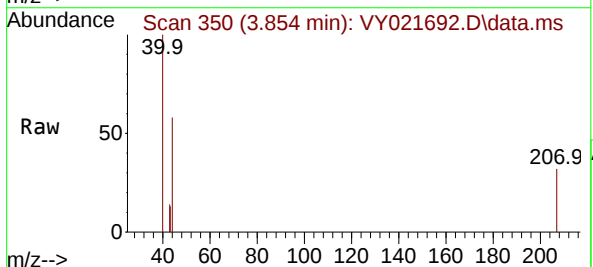
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ClientSampleId :
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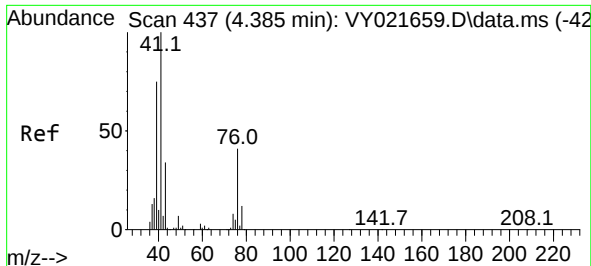
Tgt Ion: 53 Resp: 25
Ion Ratio Lower Upper
53 100
52 0.0 64.9 97.3#
51 0.0 30.2 45.2#



#16
Acetone
Concen: 12.969 ug/l
RT: 3.854 min Scan# 350
Delta R.T. -0.018 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

Tgt Ion: 43 Resp: 119
Ion Ratio Lower Upper
43 100
58 0.0 24.2 36.4#

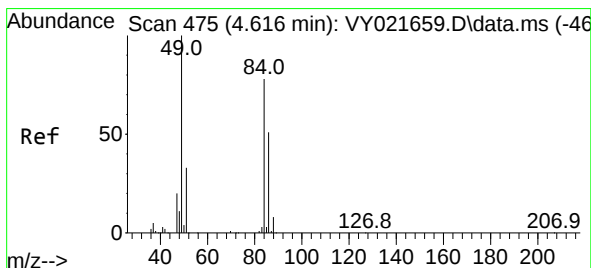
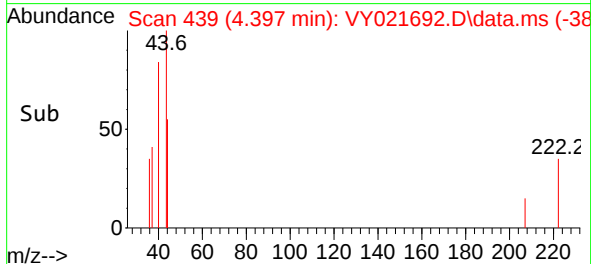
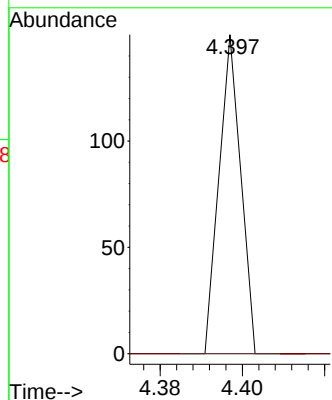
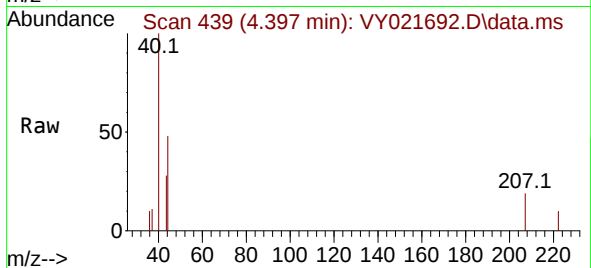




#18
Methyl Acetate
Concen: 2.419 ug/l
RT: 4.397 min Scan# 41
Delta R.T. 0.012 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

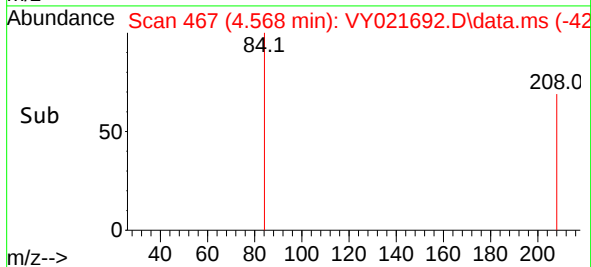
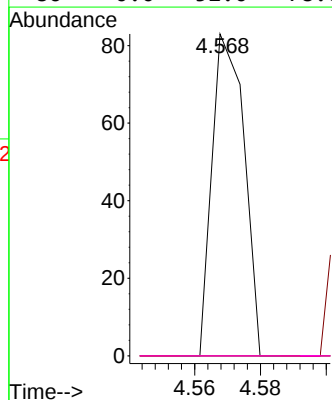
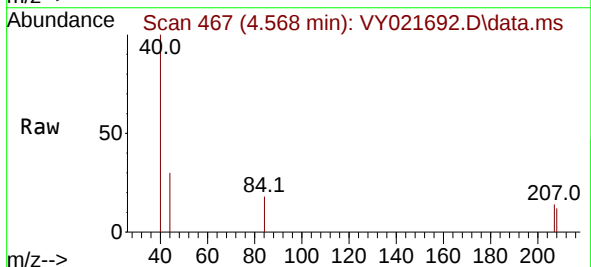
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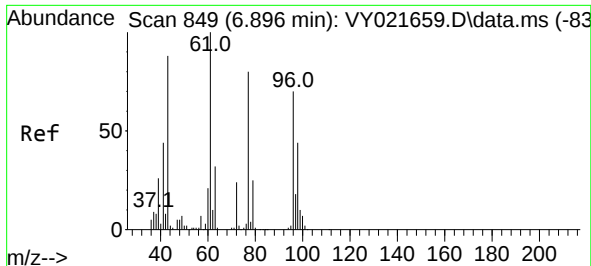
Tgt Ion: 43 Resp: 55
Ion Ratio Lower Upper
43 100
74 0.0 19.1 28.7#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.568 min Scan# 467
Delta R.T. -0.048 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

Tgt Ion: 84 Resp: 56
Ion Ratio Lower Upper
84 100
49 0.0 102.8 154.2#
51 0.0 33.5 50.3#
86 0.0 52.0 78.0#

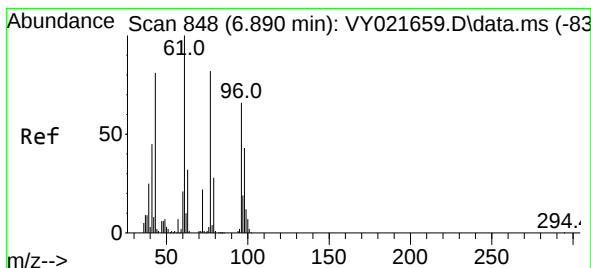
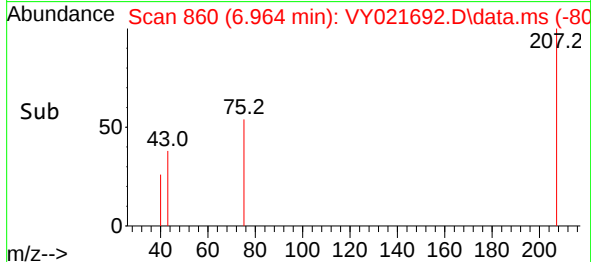
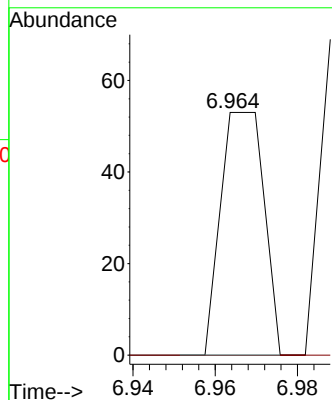
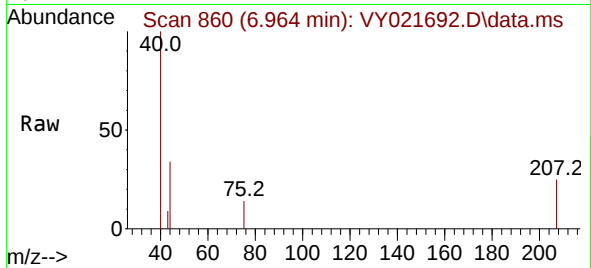




#25
2-Butanone
Concen: 2.976 ug/l
RT: 6.964 min Scan# 80
Delta R.T. 0.067 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

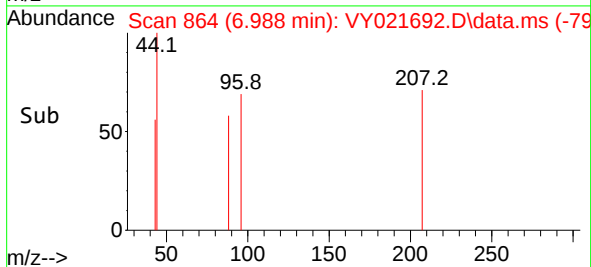
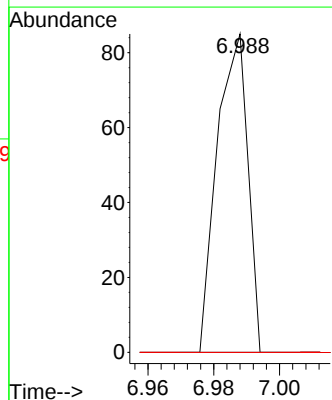
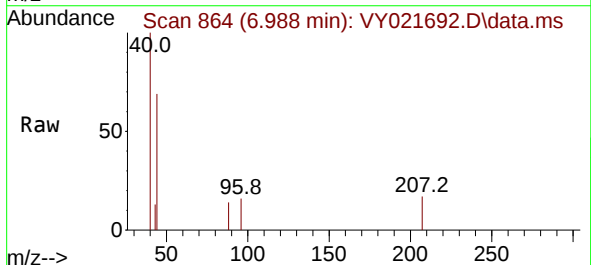
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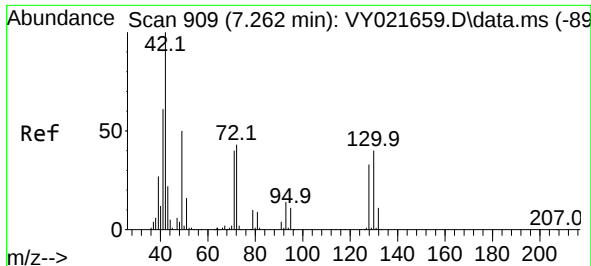
Tgt Ion: 43 Resp: 39
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.2#



#27
cis-1,2-Dichloroethene
Concen: 1.023 ug/l
RT: 6.988 min Scan# 864
Delta R.T. 0.098 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

Tgt Ion: 96 Resp: 55
Ion Ratio Lower Upper
96 100
61 0.0 0.0 296.4
98 0.0 0.0 128.0





#29

Tetrahydrofuran

Concen: 2.608 ug/l

RT: 7.390 min Scan# 91

Delta R.T. 0.128 min

Lab File: VY021692.D

Acq: 28 Mar 2025 15:14

Instrument :

MSVOA_Y

ClientSampleId :

STOCK-PILE-BIN2

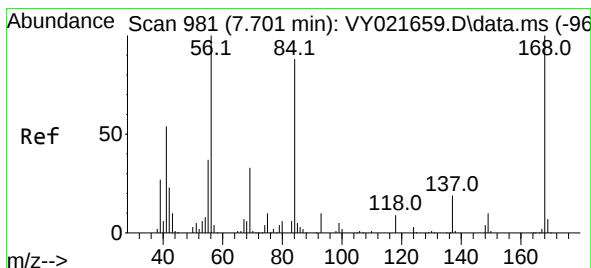
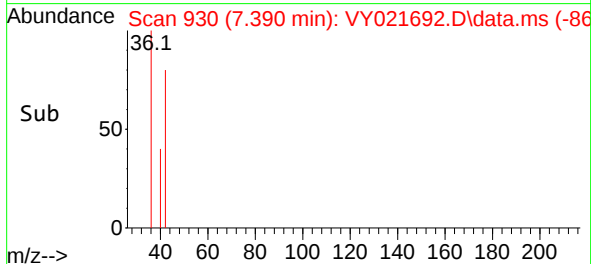
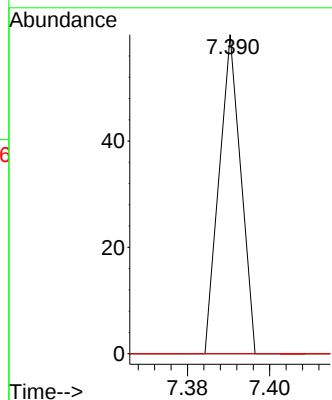
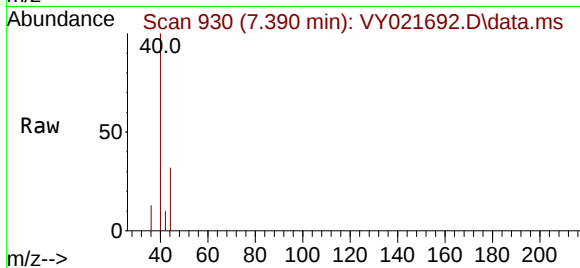
Tgt Ion: 42 Resp: 22

Ion Ratio Lower Upper

42 100

72 0.0 34.6 52.0#

71 0.0 32.5 48.7#



#31

Cyclohexane

Concen: 1.415 ug/l

RT: 7.701 min Scan# 981

Delta R.T. 0.000 min

Lab File: VY021692.D

Acq: 28 Mar 2025 15:14

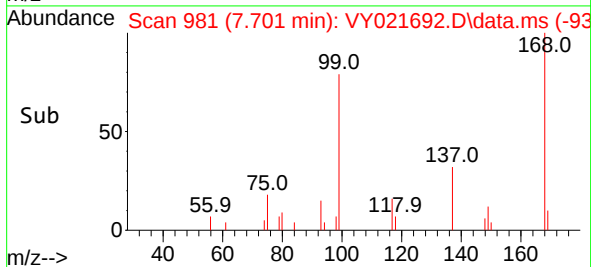
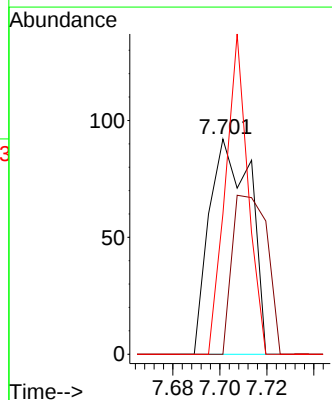
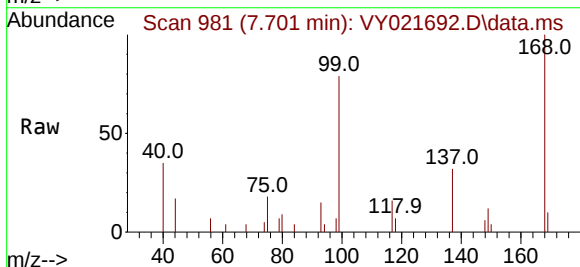
Tgt Ion: 56 Resp: 112

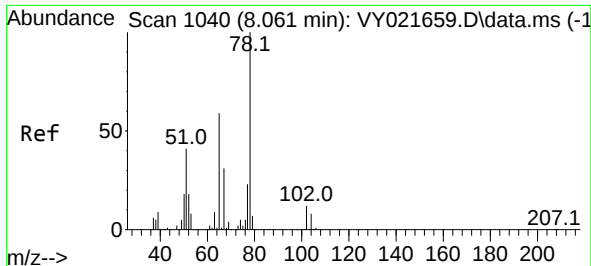
Ion Ratio Lower Upper

56 100

69 0.0 26.6 40.0#

84 65.2 69.0 103.4#





#33

1,2-Dichloroethane-d4

Concen: 68.363 ug/l

RT: 8.067 min Scan# 11041

Delta R.T. 0.006 min

Lab File: VY021692.D

Acq: 28 Mar 2025 15:14

Instrument :

MSVOA_Y

ClientSampleId :

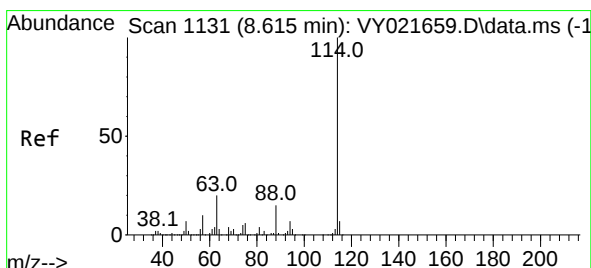
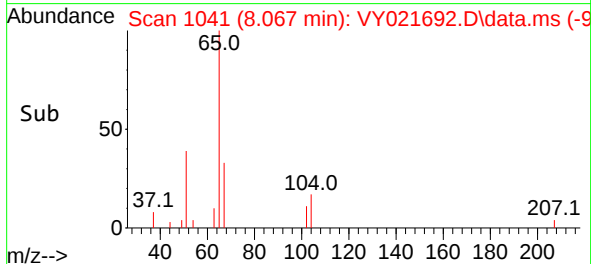
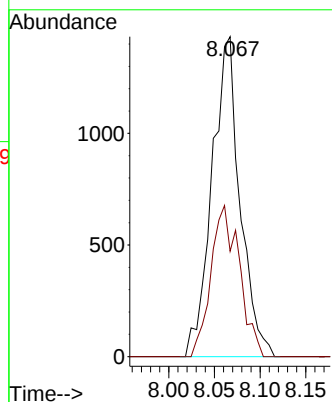
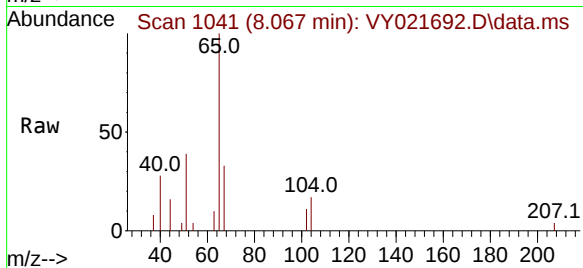
STOCK-PILE-BIN2

Tgt Ion: 65 Resp: 3065

Ion Ratio Lower Upper

65 100

67 47.8 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY021692.D

Acq: 28 Mar 2025 15:14

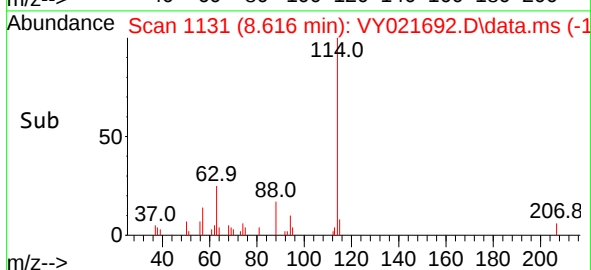
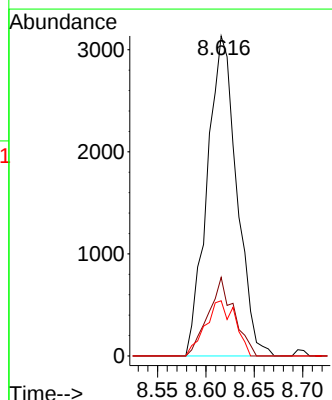
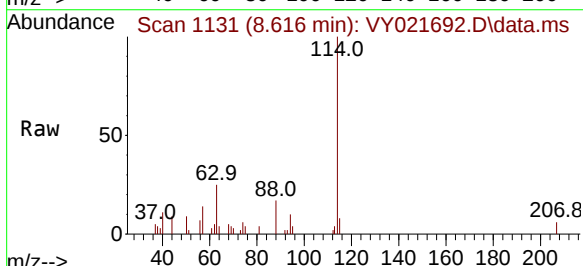
Tgt Ion: 114 Resp: 6686

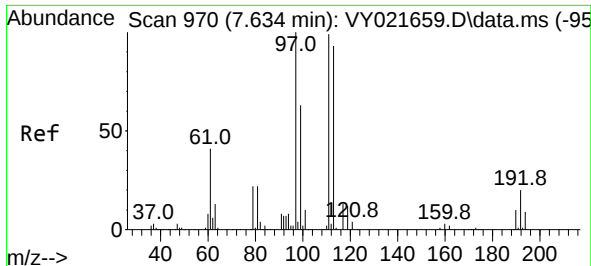
Ion Ratio Lower Upper

114 100

63 24.6 0.0 40.2

88 17.3 0.0 29.8

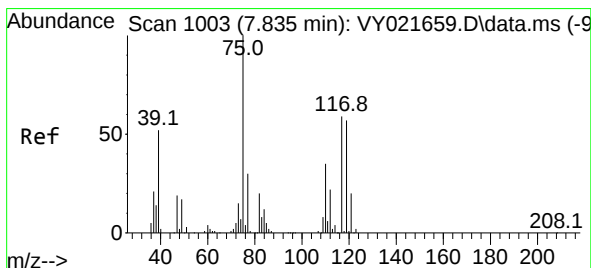
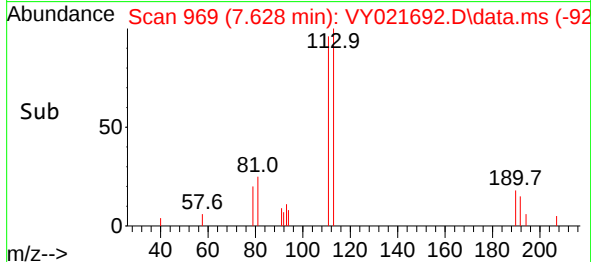
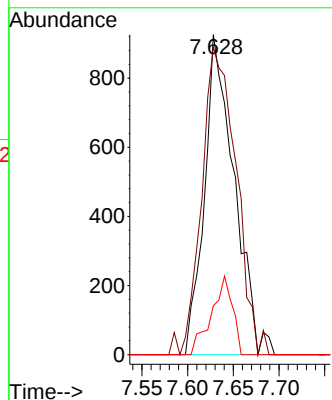
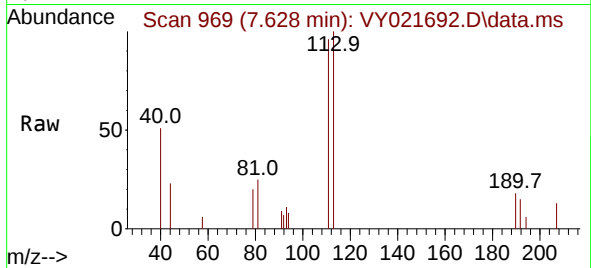




#35
Dibromofluoromethane
Concen: 48.281 ug/l
RT: 7.628 min Scan# 910
Delta R.T. -0.006 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

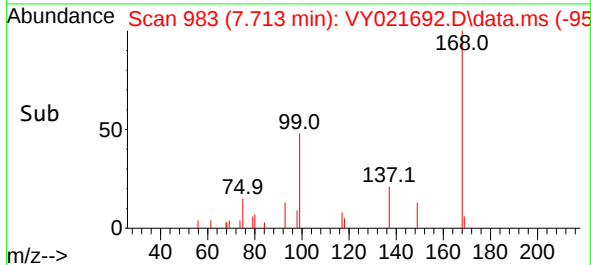
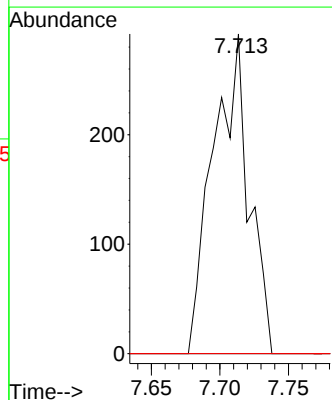
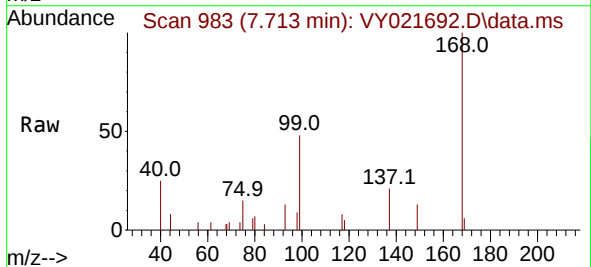
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

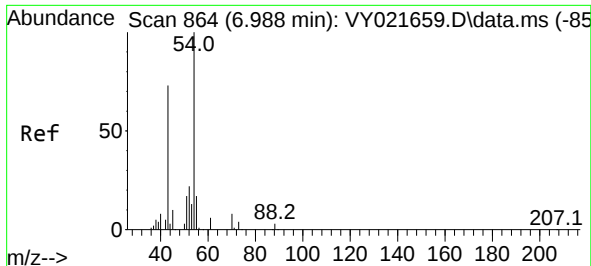
Tgt Ion:113 Resp: 2094
Ion Ratio Lower Upper
113 100
111 111.0 82.6 123.8
192 17.4 16.2 24.4



#36
1,1-Dichloropropene
Concen: 8.038 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.122 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

Tgt Ion: 75 Resp: 531
Ion Ratio Lower Upper
75 100
110 0.0 17.0 50.9#
77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 1.700 ug/l

RT: 6.994 min Scan# 81

Delta R.T. 0.006 min

Lab File: VY021692.D

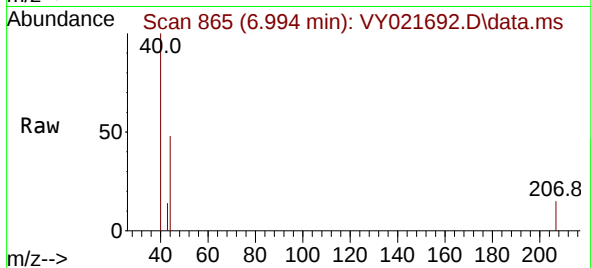
Acq: 28 Mar 2025 15:14

Instrument :

MSVOA_Y

ClientSampleId :

STOCK-PILE-BIN2



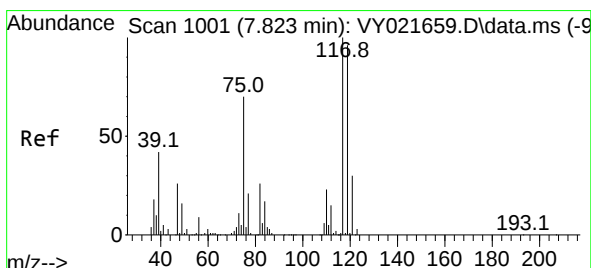
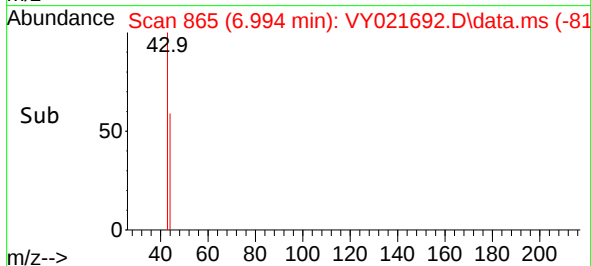
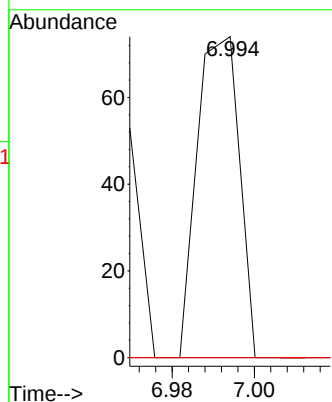
Tgt Ion: 43 Resp: 53

Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.6#

70 0.0 8.1 12.1#



#38

Carbon Tetrachloride

Concen: 3.212 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.116 min

Lab File: VY021692.D

Acq: 28 Mar 2025 15:14

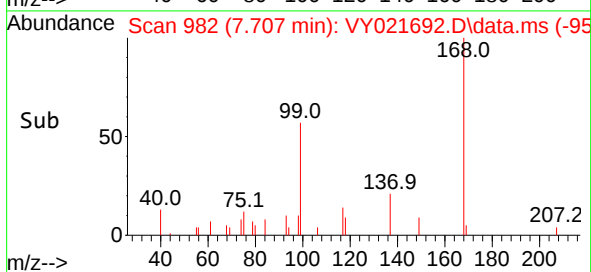
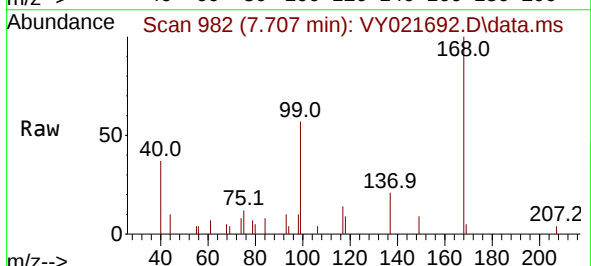
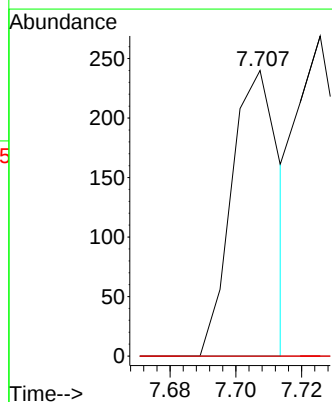
Tgt Ion: 117 Resp: 243

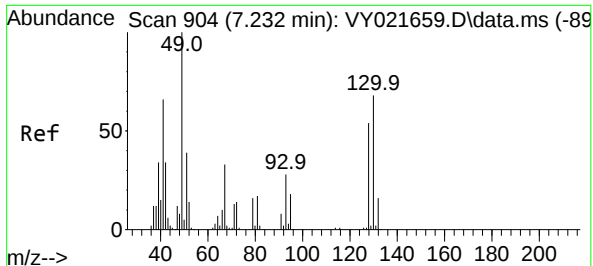
Ion Ratio Lower Upper

117 100

119 0.0 76.2 114.4#

121 0.0 24.2 36.4#

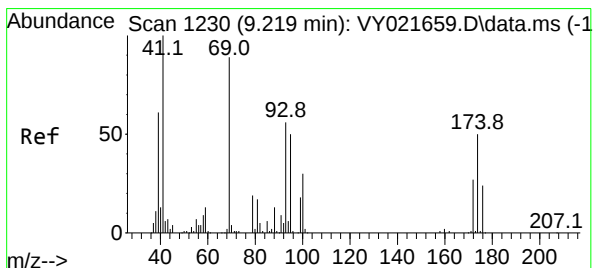
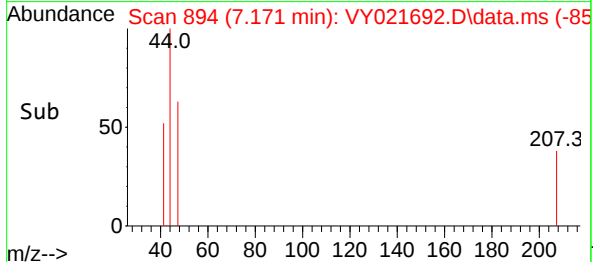
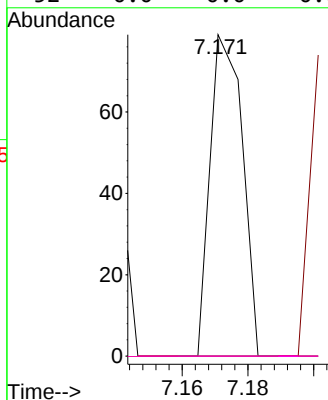
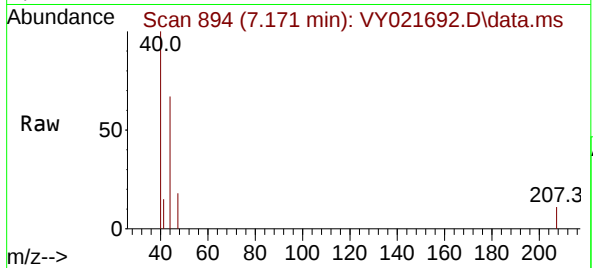




#41
Methacrylonitrile
Concen: 3.261 ug/l
RT: 7.171 min Scan# 894
Delta R.T. -0.061 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

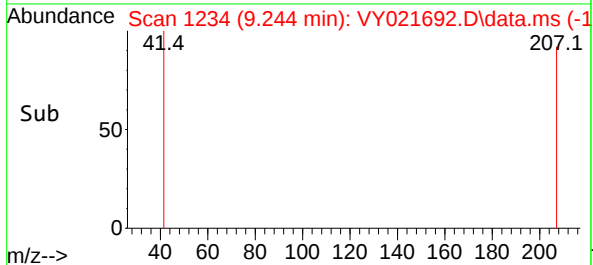
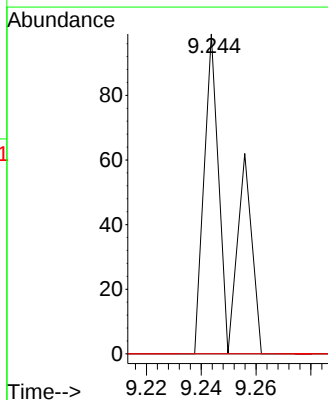
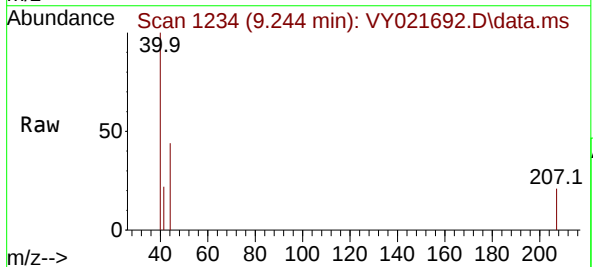
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

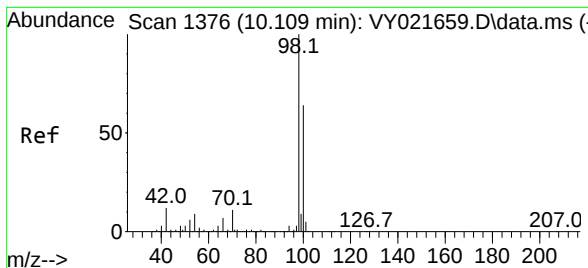
Tgt Ion:	41	Resp:	54
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#48
Methyl methacrylate
Concen: 2.176 ug/l
RT: 9.244 min Scan# 1234
Delta R.T. 0.025 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

Tgt Ion:	41	Resp:	59
Ion	Ratio	Lower	Upper
41	100		
69	0.0	69.8	104.8#
39	0.0	47.2	70.8#

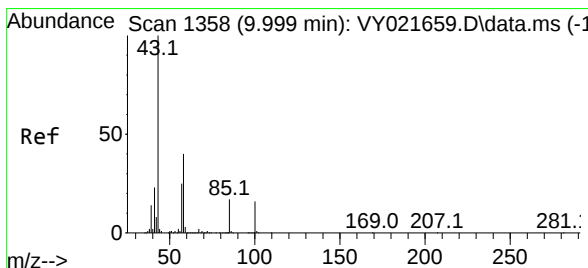
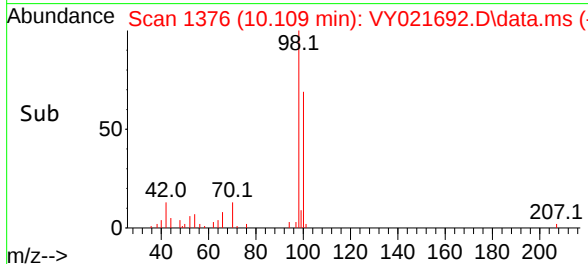
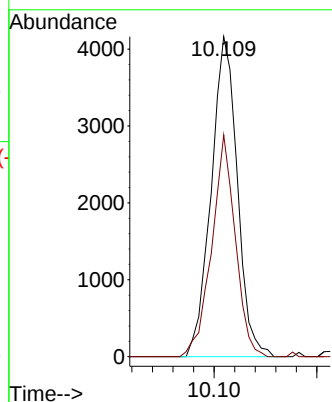
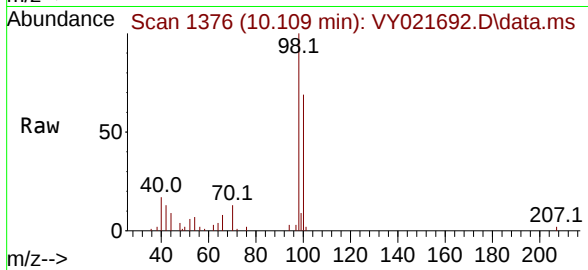




#50
Toluene-d8
Concen: 44.589 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

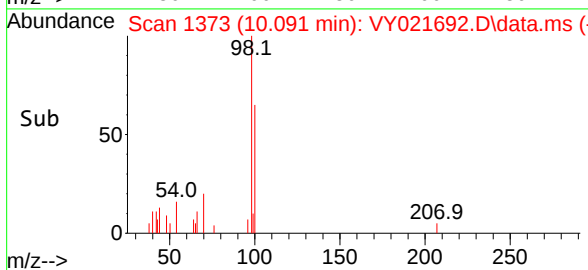
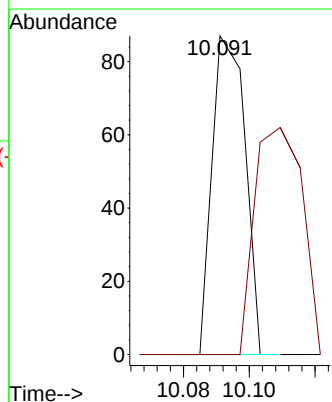
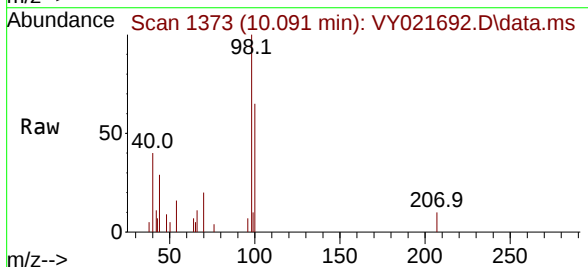
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

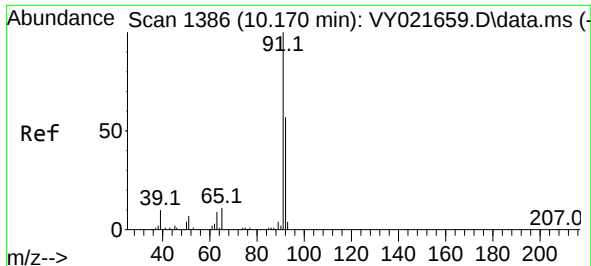
Tgt Ion: 98 Resp: 7357
Ion Ratio Lower Upper
98 100
100 62.4 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.951 ug/l
RT: 10.091 min Scan# 1373
Delta R.T. 0.092 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

Tgt Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
58 105.0 31.5 47.3#

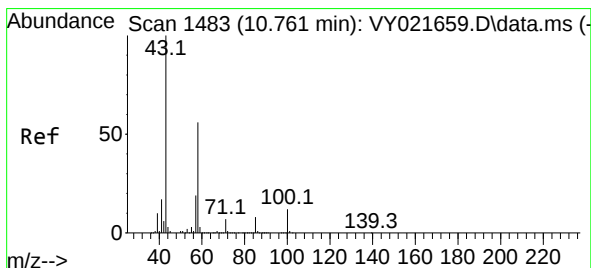
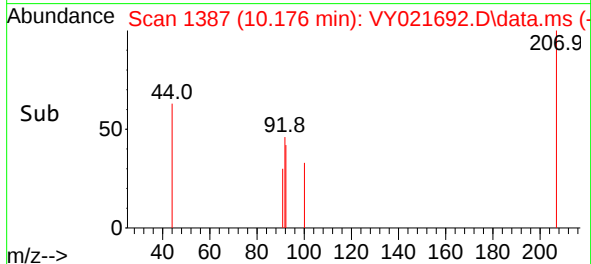
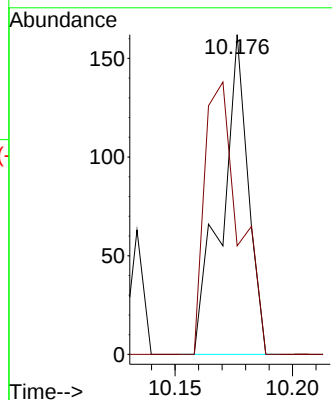
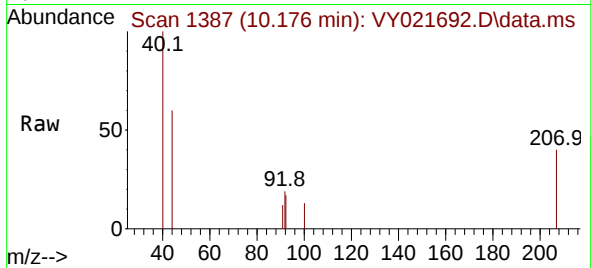




#52
Toluene
Concen: 1.029 ug/l
RT: 10.176 min Scan# 1111
Delta R.T. 0.006 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

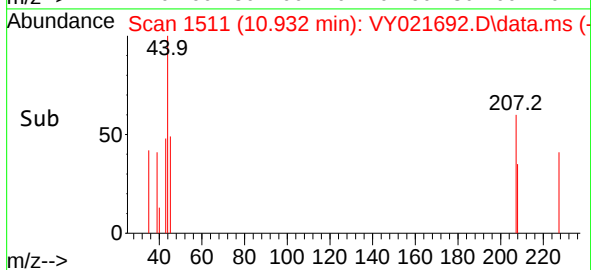
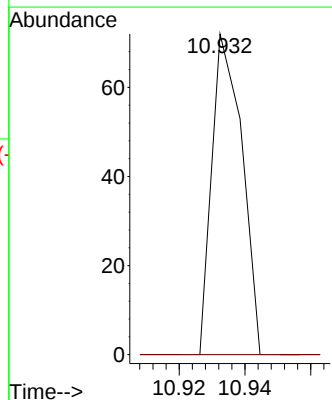
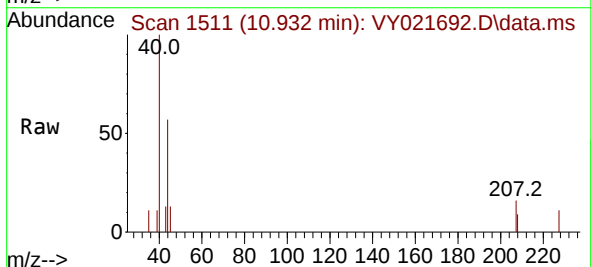
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

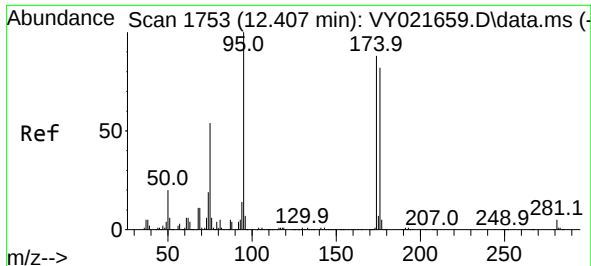
Tgt Ion: 92 Resp: 127
Ion Ratio Lower Upper
92 100
91 110.2 138.6 207.8#



#59
2-Hexanone
Concen: 2.246 ug/l
RT: 10.932 min Scan# 1511
Delta R.T. 0.171 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

Tgt Ion: 43 Resp: 46
Ion Ratio Lower Upper
43 100
58 0.0 27.2 81.5#

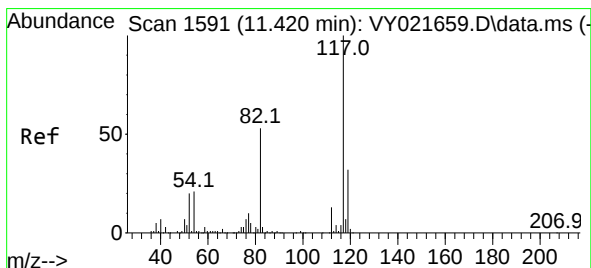
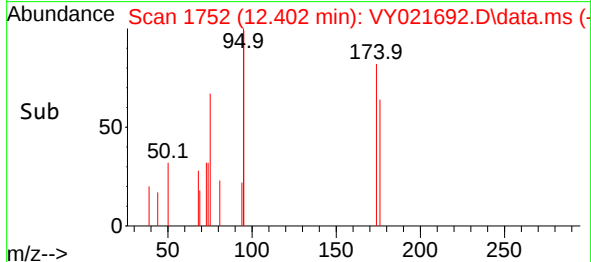
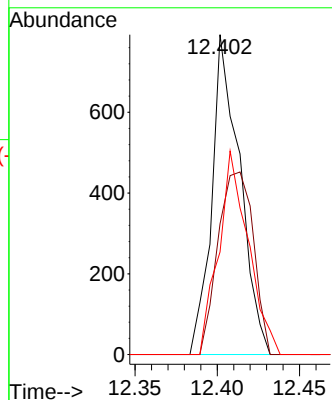
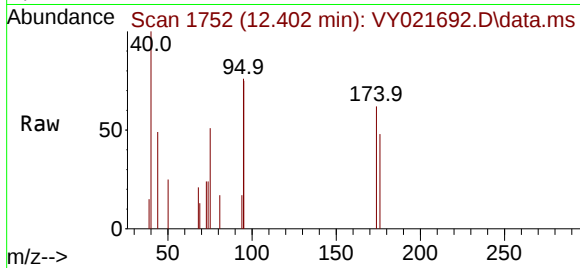




#62
4-Bromofluorobenzene
Concen: 16.753 ug/l
RT: 12.402 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

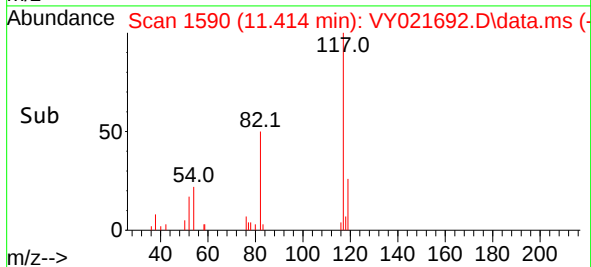
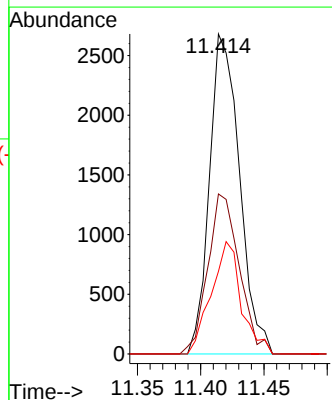
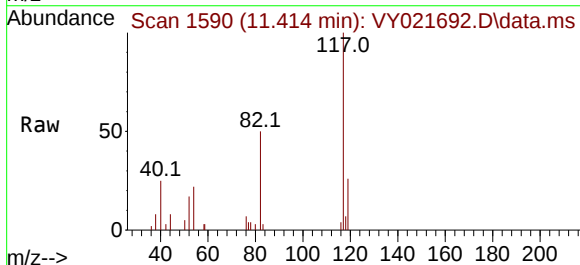
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

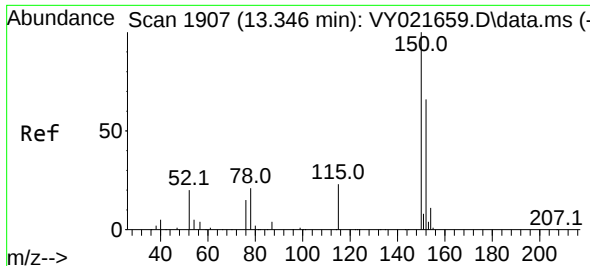
Tgt Ion:	95	Resp:	935
Ion	Ratio	Lower	Upper
95	100		
174	72.2	0.0	170.8
176	67.8	0.0	162.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

Tgt Ion:	117	Resp:	4425
Ion	Ratio	Lower	Upper
117	100		
82	50.0	42.8	64.2
119	25.8	25.7	38.5

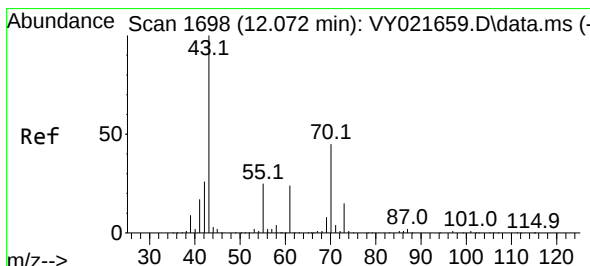
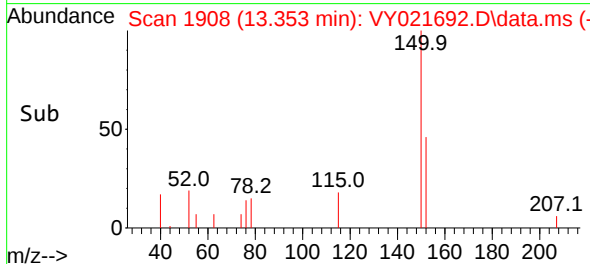
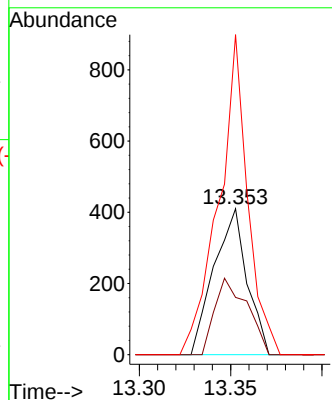
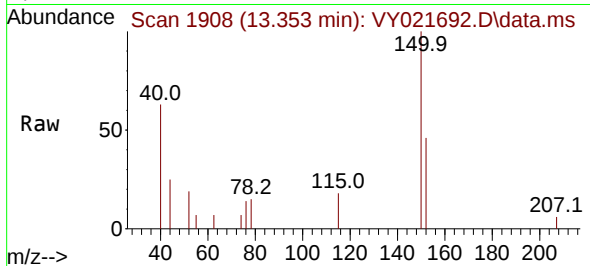




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

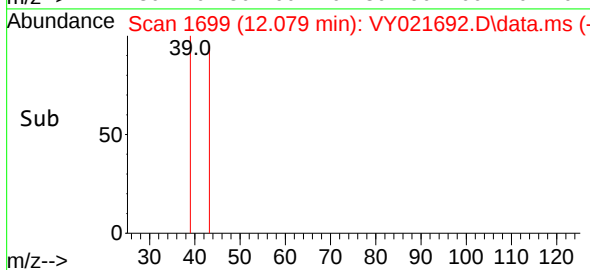
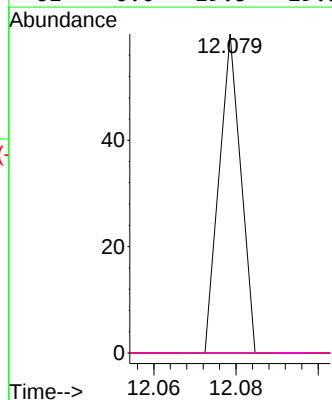
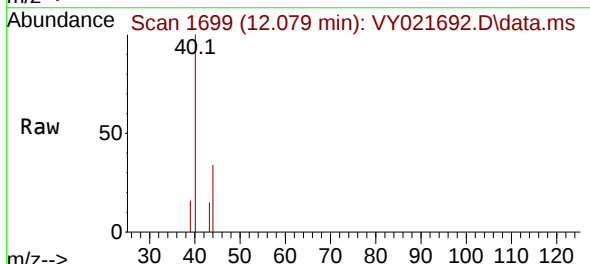
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

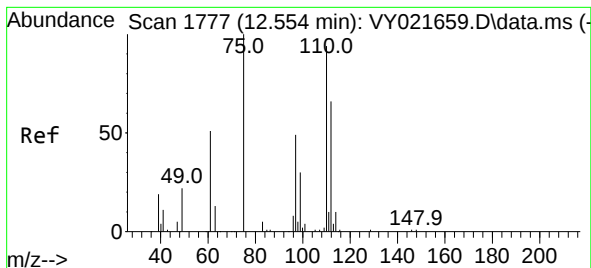
Tgt Ion:152 Resp: 517
Ion Ratio Lower Upper
152 100
115 51.3 28.8 86.5
150 191.1 0.0 348.4



#74
N-ethyl acetate
Concen: 2.441 ug/l
RT: 12.079 min Scan# 1699
Delta R.T. 0.006 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

Tgt Ion: 43 Resp: 22
Ion Ratio Lower Upper
43 100
70 0.0 34.7 52.1#
55 0.0 21.2 31.8#
61 0.0 19.5 29.3#

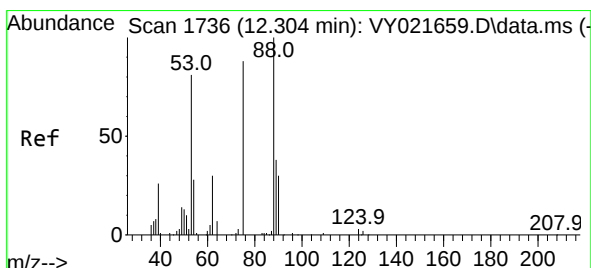
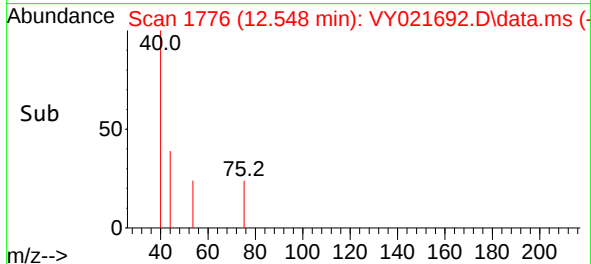
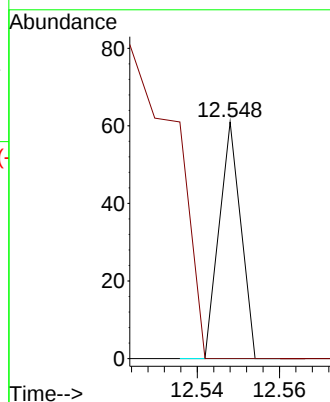
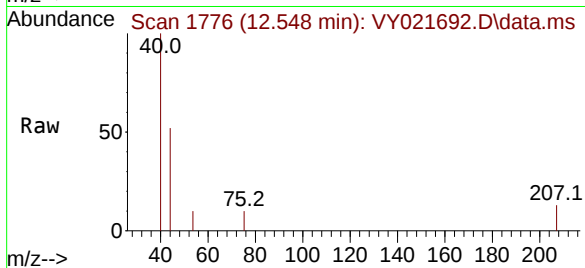




#76
1,2,3-Trichloropropane
Concen: 4.293 ug/l
RT: 12.548 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

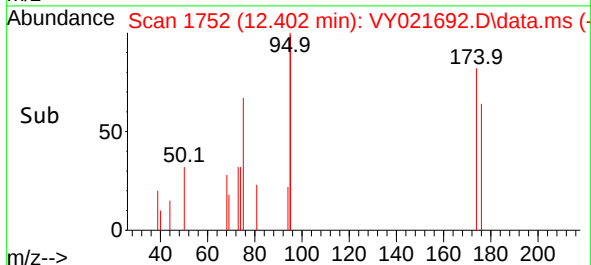
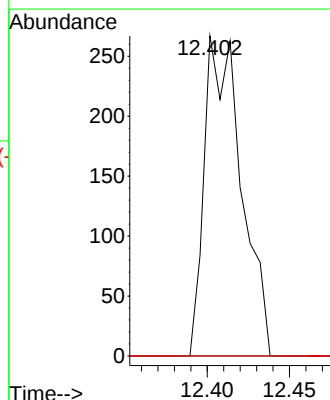
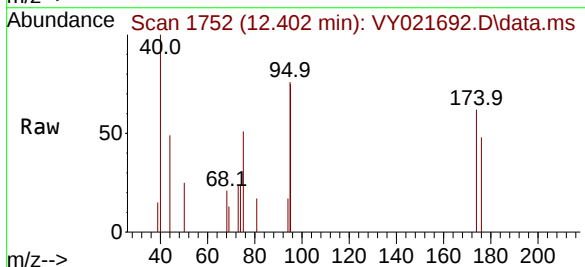
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

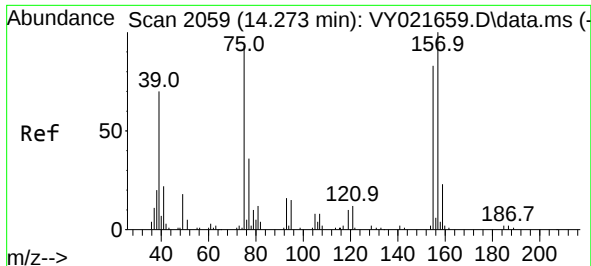
Tgt Ion: 75 Resp: 22
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 187.488 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.098 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

Tgt Ion: 75 Resp: 417
Ion Ratio Lower Upper
75 100
53 0.0 76.1 114.1#
89 0.0 36.2 54.4#

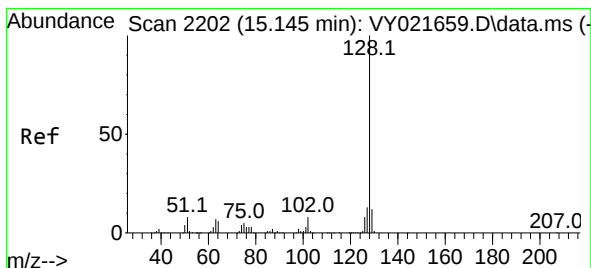
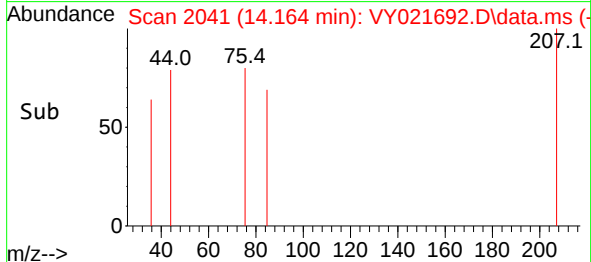
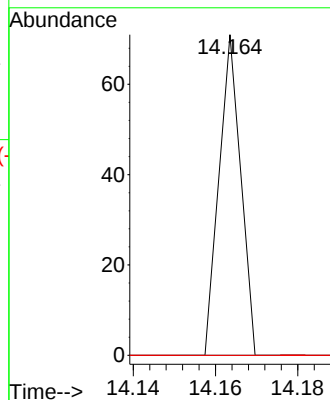
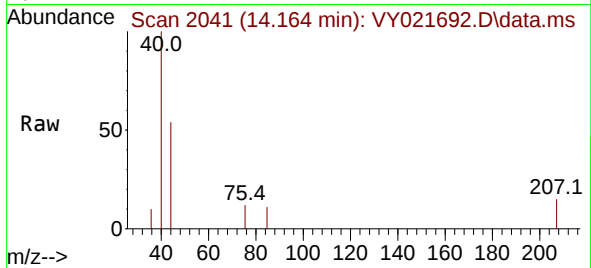




#92
1,2-Dibromo-3-Chloropropane
Concen: 24.298 ug/l
RT: 14.164 min Scan# 2059
Delta R.T. -0.109 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

Tgt Ion: 75 Resp: 26
Ion Ratio Lower Upper
75 100
155 0.0 43.0 128.8#
157 0.0 54.0 162.0#



#95
Naphthalene
Concen: 1.618 ug/l
RT: 15.169 min Scan# 2206
Delta R.T. 0.025 min
Lab File: VY021692.D
Acq: 28 Mar 2025 15:14

Tgt Ion: 128 Resp: 23
Ion Ratio Lower Upper
128 100
127 0.0 10.8 16.2#
129 0.0 8.8 13.2#

