

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
 Data File : VY021363.D
 Acq On : 27 Feb 2025 17:09
 Operator : SY/MD
 Sample : Q1411-03
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

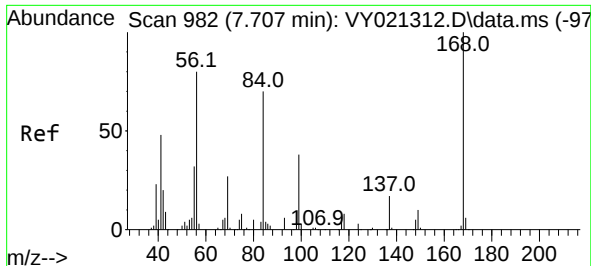
Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-03-02212025

Quant Time: Feb 28 00:43:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	2055	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	2893	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1489	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	326	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	1193	51.175	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 102.360%	
35) Dibromofluoromethane	7.628	113	950	50.088	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 100.180%	
50) Toluene-d8	10.109	98	2921	39.849	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 79.700%	
62) 4-Bromofluorobenzene	12.408	95	256	10.377	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 20.760%#	
Target Compounds						
					Qvalue	
3) Chloromethane	2.074	50	150	5.961	ug/l #	58
5) Bromomethane	2.611	94	142	8.652	ug/l #	32
16) Acetone	3.866	43	23	5.143	ug/l #	45
20) Methylene Chloride	4.598	84	50	2.068	ug/l #	5
36) 1,1-Dichloropropene	7.701	75	42	1.474	ug/l #	42
38) Carbon Tetrachloride	7.695	117	183	5.714	ug/l #	12
48) Methyl methacrylate	9.183	41	19	1.481	ug/l #	15
55) 1,1,2-Trichloroethane	10.554	97	42	2.910	ug/l #	15
59) 2-Hexanone	10.731	43	401	43.484	ug/l #	26
74) N-amyl acetate	12.097	43	34	5.458	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	12.560	83	116	26.818	ug/l #	26
76) 1,2,3-Trichloropropane	12.395	75	176	53.937	ug/l #	100
77) Bromobenzene	12.615	156	23	4.035	ug/l #	1
78) n-propylbenzene	12.590	91	86	2.892	ug/l #	53
79) 2-Chlorotoluene	12.706	91	27	1.582	ug/l #	41
81) trans-1,4-Dichloro-2-b...	12.395	75	176	119.882	ug/l #	10
82) 4-Chlorotoluene	12.786	91	22	1.243	ug/l #	41
84) 1,2,4-Trimethylbenzene	13.188	105	129	6.453	ug/l #	31
85) sec-Butylbenzene	13.188	105	129	4.864	ug/l #	56
89) n-Butylbenzene	13.621	91	58	2.783	ug/l #	33

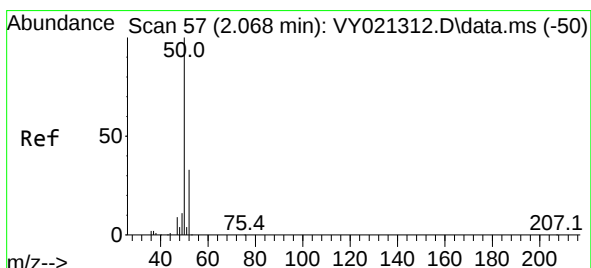
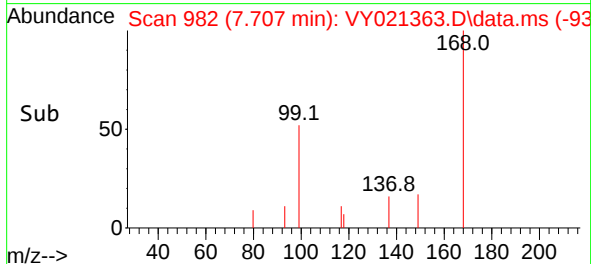
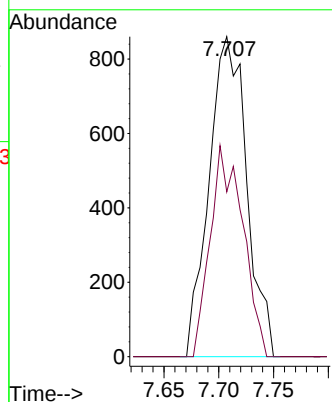
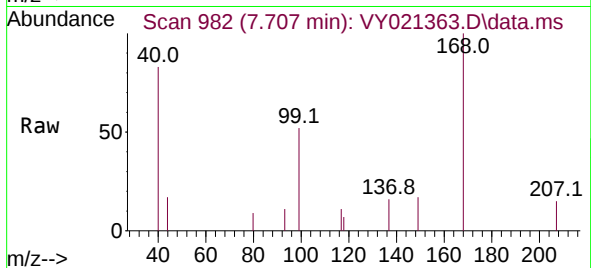
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

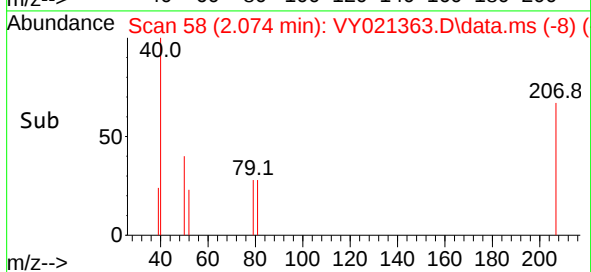
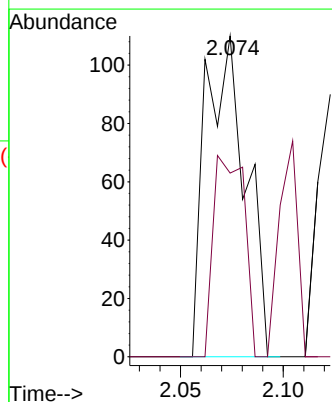
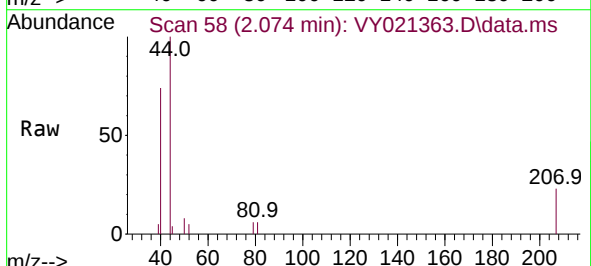
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-02212025

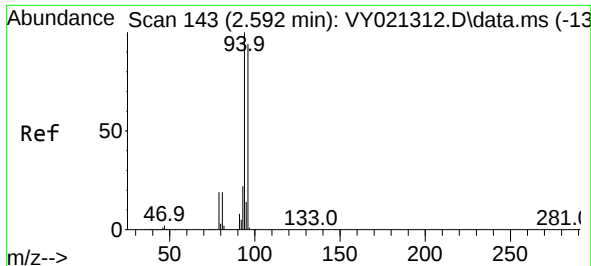
Tgt Ion:168 Resp: 2055
Ion Ratio Lower Upper
168 100
99 51.5 47.1 70.7



#3
Chloromethane
Concen: 5.961 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.006 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

Tgt Ion: 50 Resp: 150
Ion Ratio Lower Upper
50 100
52 57.3 26.6 40.0#

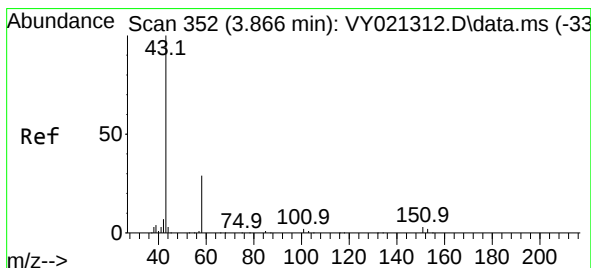
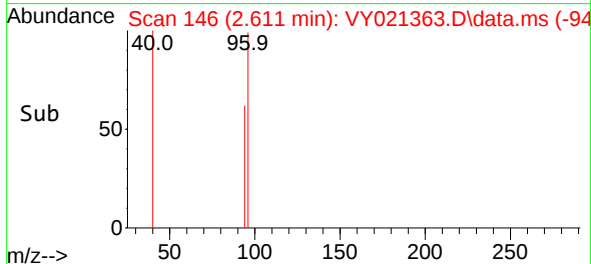
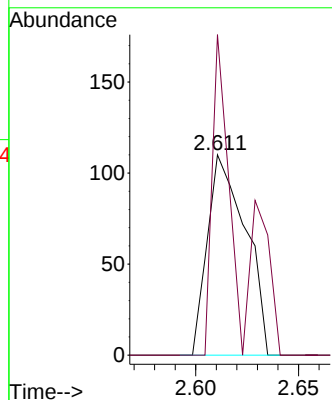
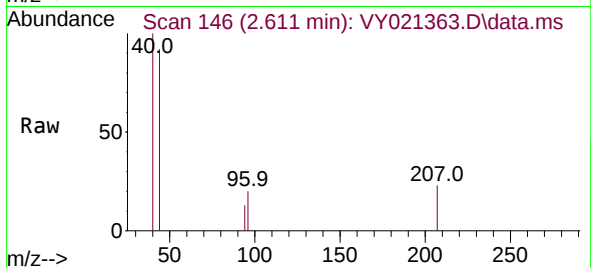




#5
Bromomethane
Concen: 8.652 ug/l
RT: 2.611 min Scan# 146
Delta R.T. 0.018 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

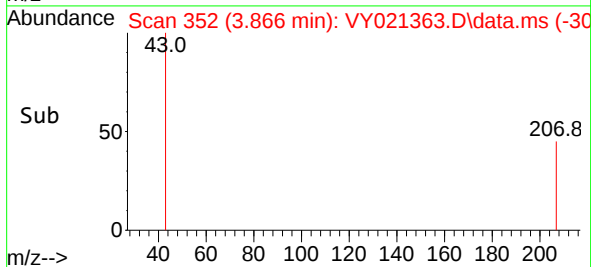
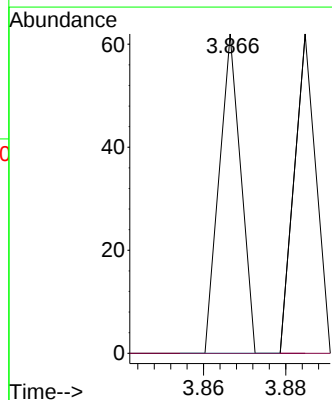
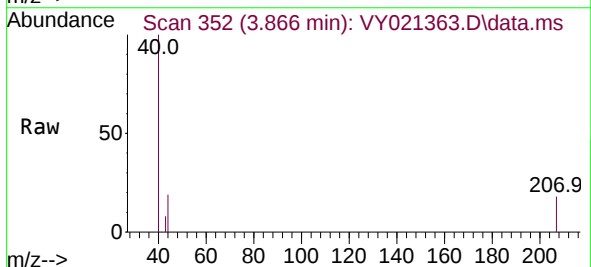
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-02212025

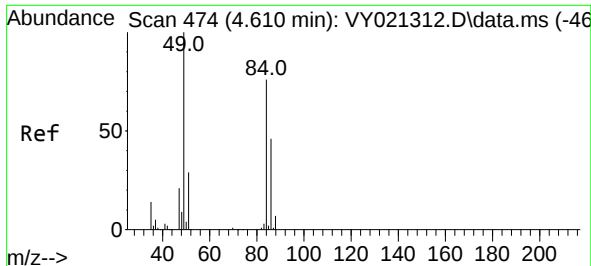
Tgt Ion: 94 Resp: 142
Ion Ratio Lower Upper
94 100
96 160.0 75.2 112.8#



#16
Acetone
Concen: 5.143 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

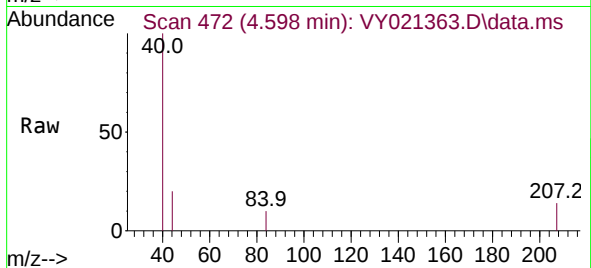
Tgt Ion: 43 Resp: 23
Ion Ratio Lower Upper
43 100
58 0.0 23.5 35.3#



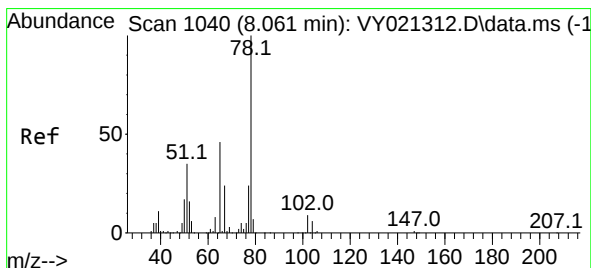
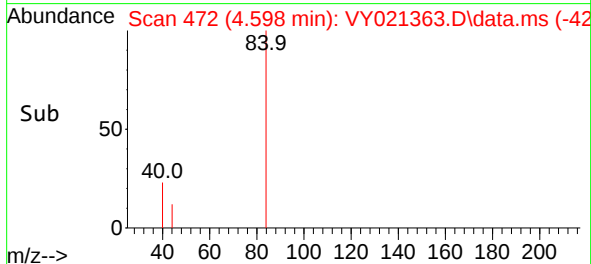
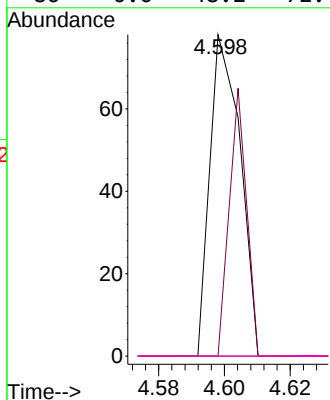


#20
Methylene Chloride
Concen: 2.068 ug/l
RT: 4.598 min Scan# 41
Delta R.T. -0.012 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

Instrument :
MSVOA_Y
ClientSampleId :
HR-03-02212025

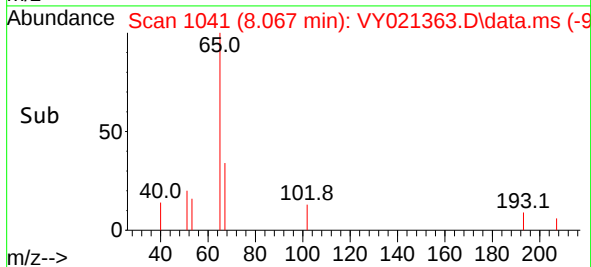
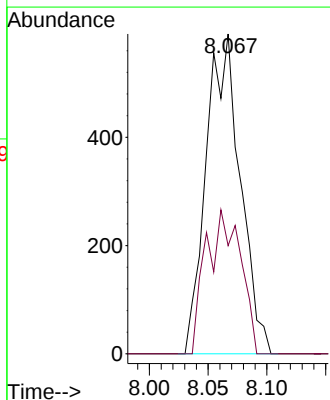
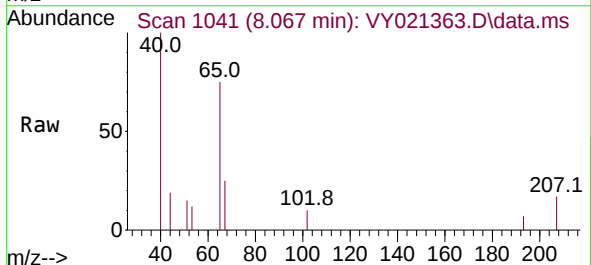


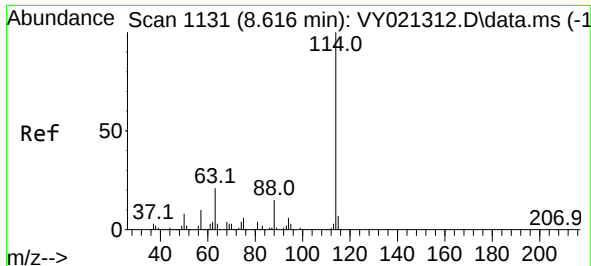
Tgt Ion:	84	Resp:	50
Ion	Ratio	Lower	Upper
84	100		
49	0.0	105.1	157.7#
51	0.0	31.0	46.4#
86	0.0	48.2	72.4#



#33
1,2-Dichloroethane-d4
Concen: 51.175 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

Tgt Ion:	65	Resp:	1193
Ion	Ratio	Lower	Upper
65	100		
67	45.5	0.0	103.6

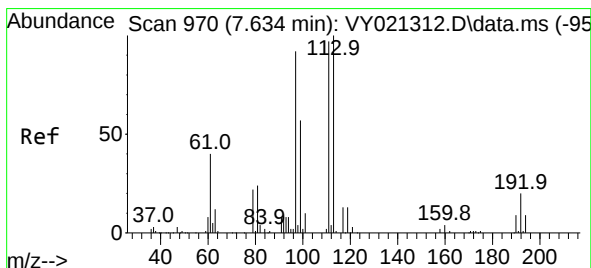
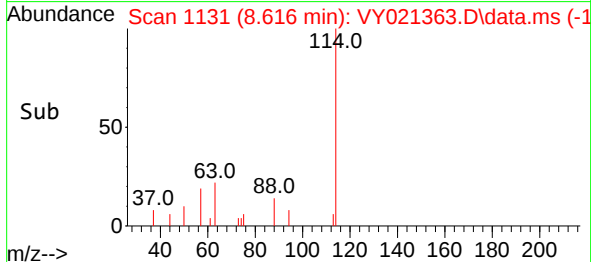
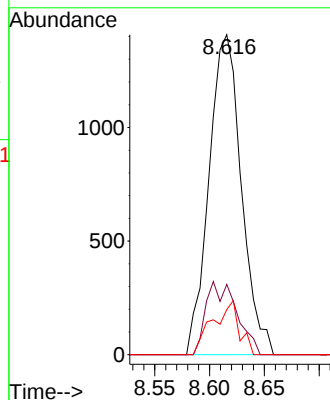
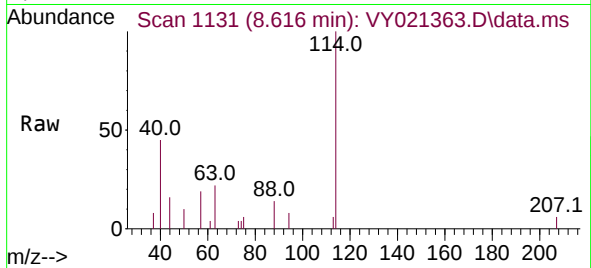




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

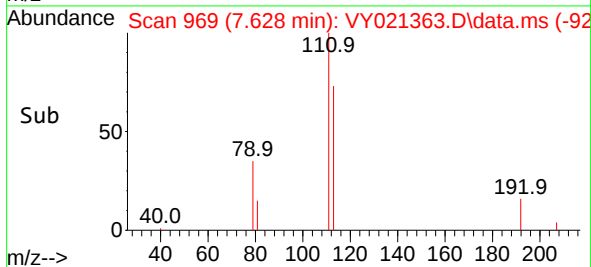
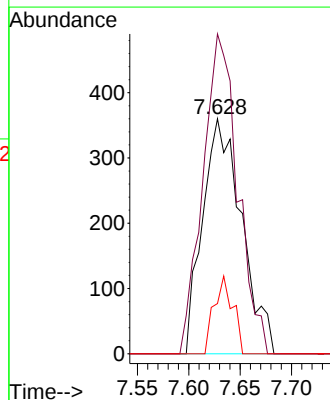
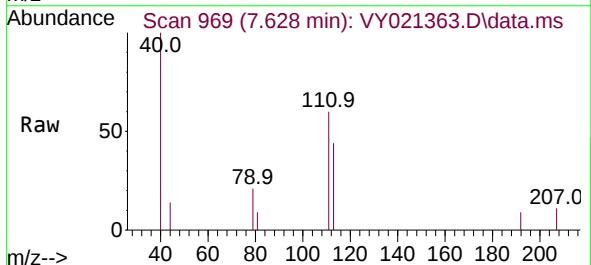
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-02212025

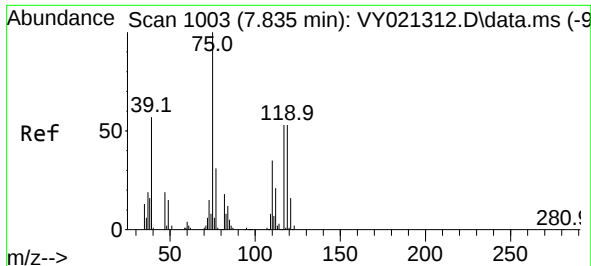
Tgt Ion:114	Resp:	2893
Ion	Ratio	Lower Upper
114	100	
63	21.9	0.0 42.2
88	14.1	0.0 29.8



#35
Dibromofluoromethane
Concen: 50.088 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

Tgt Ion:113	Resp:	950
Ion	Ratio	Lower Upper
113	100	
111	121.6	81.0 121.6#
192	15.8	15.8 23.8#





#36

1,1-Dichloropropene

Concen: 1.474 ug/l

RT: 7.701 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY021363.D

Acq: 27 Feb 2025 17:09

Instrument :

MSVOA_Y

ClientSampleId :

HR-03-02212025

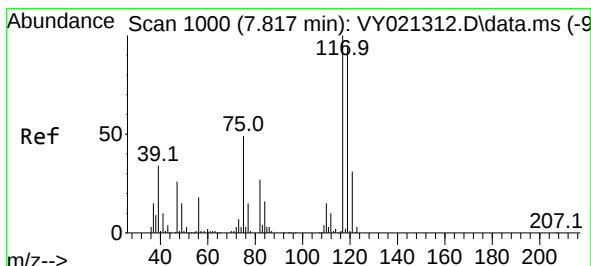
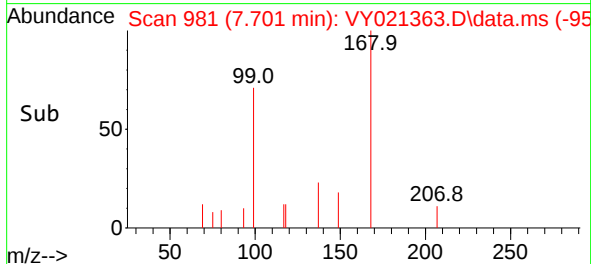
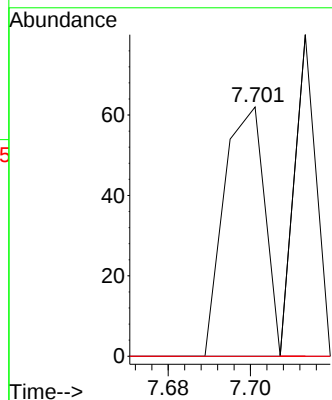
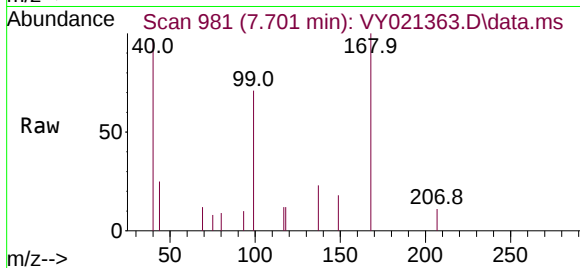
Tgt Ion: 75 Resp: 42

Ion Ratio Lower Upper

75 100

110 0.0 16.9 50.7#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 5.714 ug/l

RT: 7.695 min Scan# 980

Delta R.T. -0.122 min

Lab File: VY021363.D

Acq: 27 Feb 2025 17:09

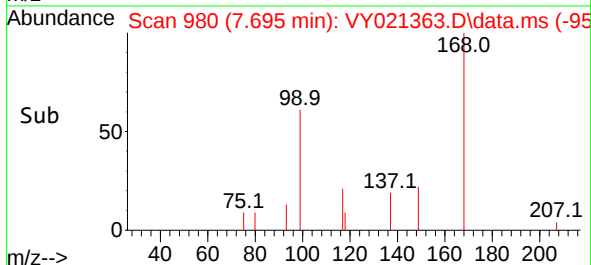
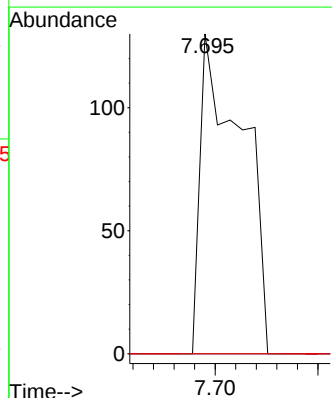
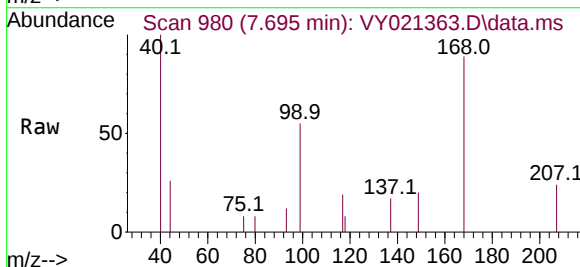
Tgt Ion: 117 Resp: 183

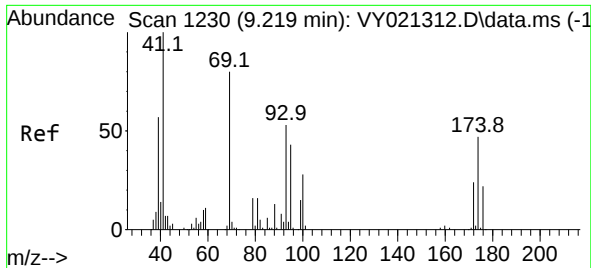
Ion Ratio Lower Upper

117 100

119 0.0 76.0 114.0#

121 0.0 24.9 37.3#

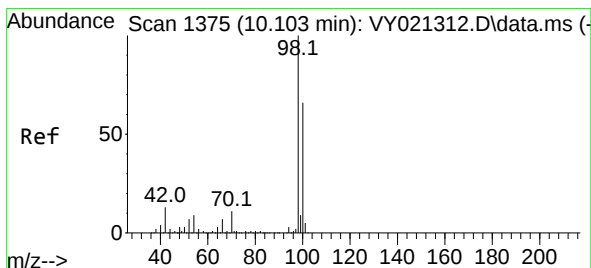
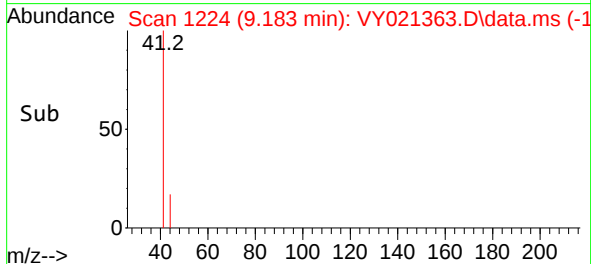
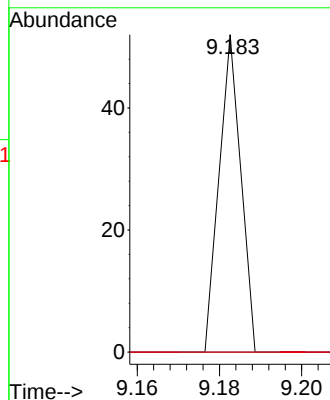
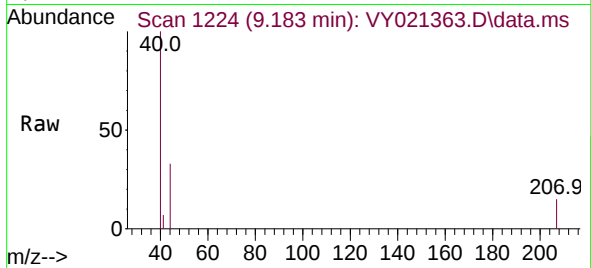




#48
Methyl methacrylate
Concen: 1.481 ug/l
RT: 9.183 min Scan# 11
Delta R.T. -0.036 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

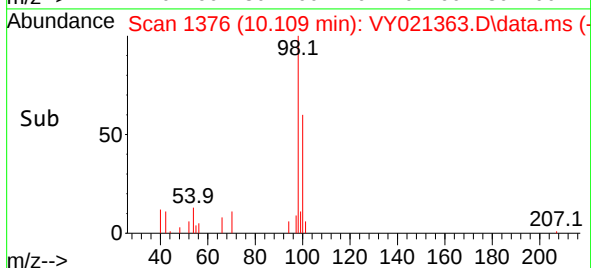
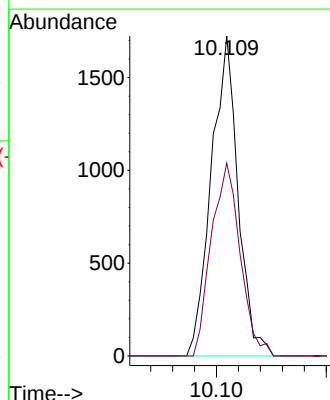
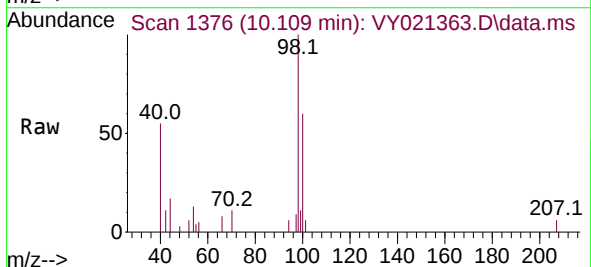
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-02212025

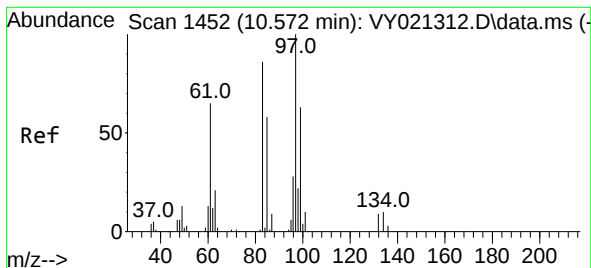
Tgt Ion: 41 Resp: 19
Ion Ratio Lower Upper
41 100
69 0.0 63.3 94.9#
39 0.0 45.0 67.6#



#50
Toluene-d8
Concen: 39.849 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

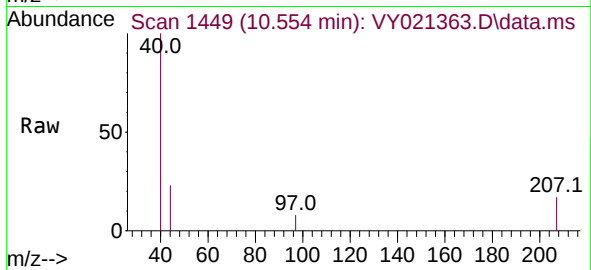
Tgt Ion: 98 Resp: 2921
Ion Ratio Lower Upper
98 100
100 65.0 52.4 78.6



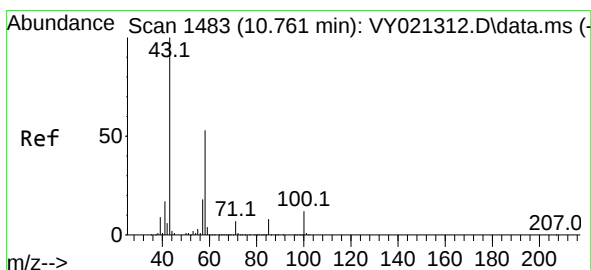
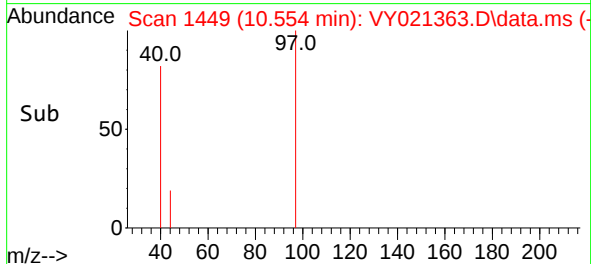
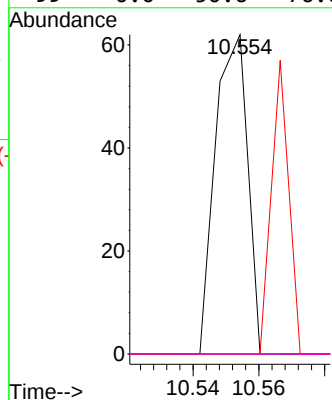


#55
1,1,2-Trichloroethane
Concen: 2.910 ug/l
RT: 10.554 min Scan# 1452
Delta R.T. -0.018 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

Instrument :
MSVOA_Y
ClientSampleId :
HR-03-02212025

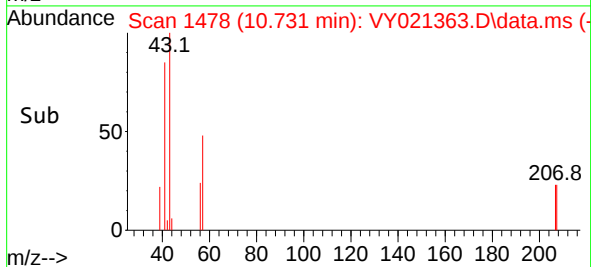
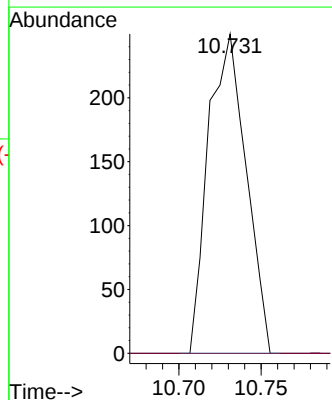
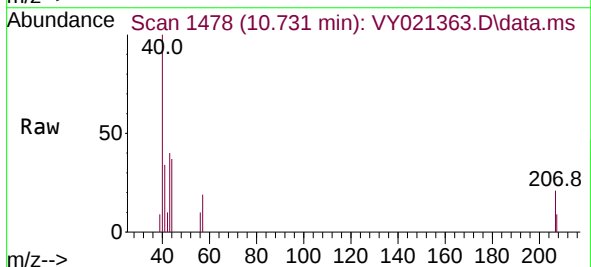


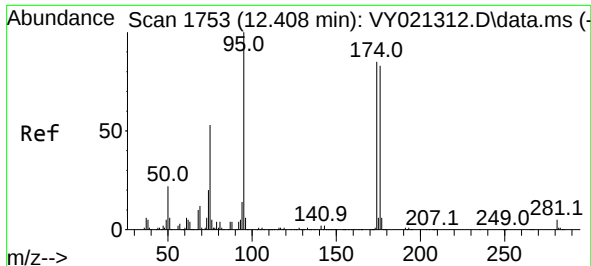
Tgt Ion: 97 Resp: 42
Ion Ratio Lower Upper
97 100
83 0.0 68.7 103.1#
85 0.0 46.3 69.5#
99 0.0 50.6 76.0#



#59
2-Hexanone
Concen: 43.484 ug/l
RT: 10.731 min Scan# 1478
Delta R.T. -0.030 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

Tgt Ion: 43 Resp: 401
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.6#

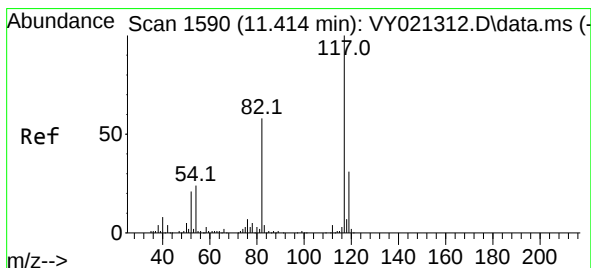
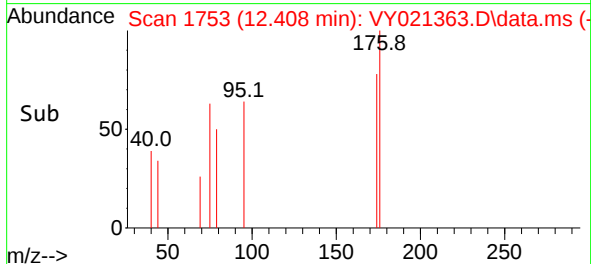
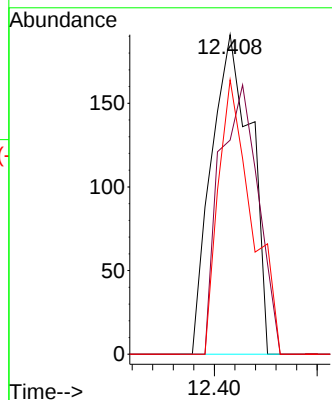
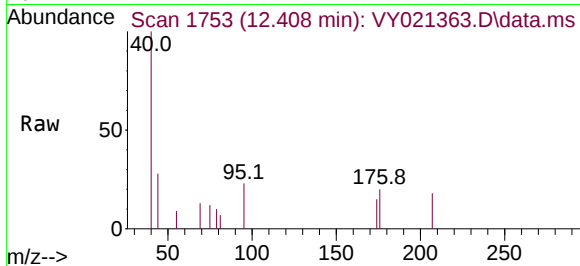




#62
4-Bromofluorobenzene
Concen: 10.377 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

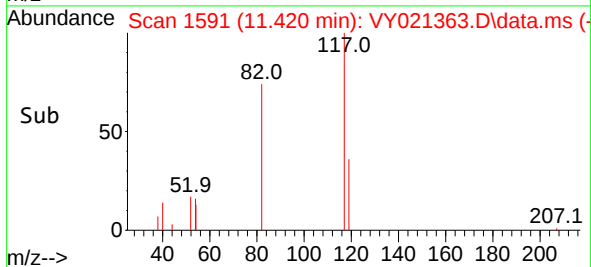
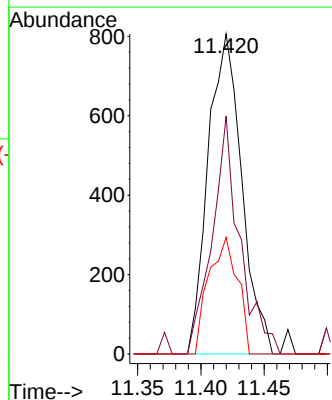
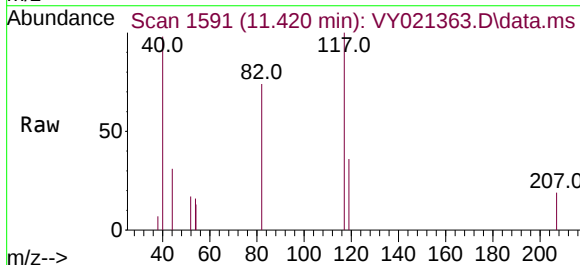
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-02212025

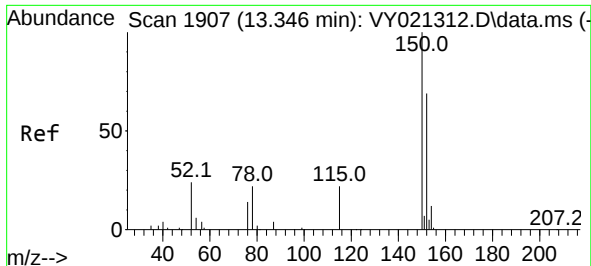
Tgt Ion:	95	Resp:	256
Ion	Ratio	Lower	Upper
95	100		
174	82.0	0.0	168.0
176	72.3	0.0	162.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

Tgt Ion:	117	Resp:	1489
Ion	Ratio	Lower	Upper
117	100		
82	74.3	46.2	69.4
119	36.5	24.9	37.3

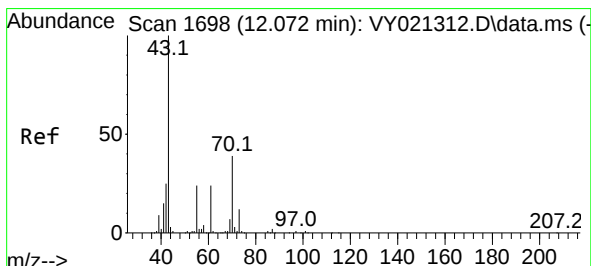
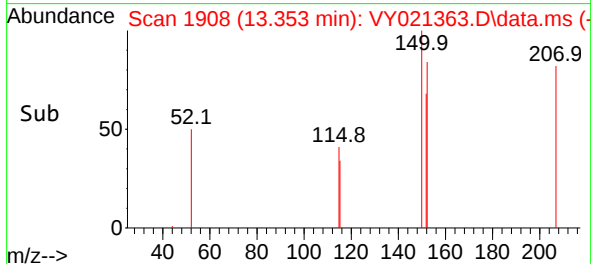
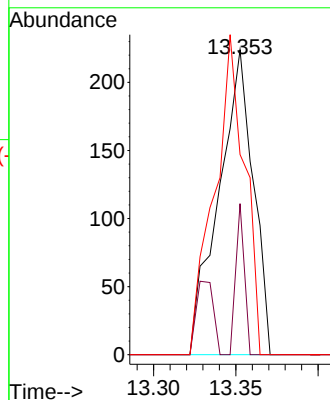
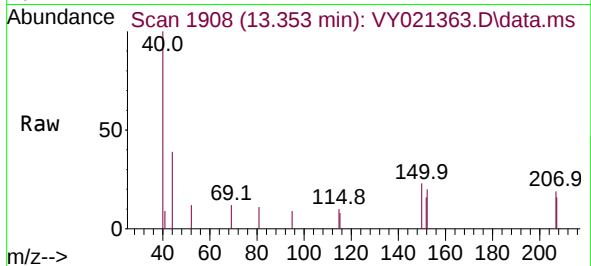




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

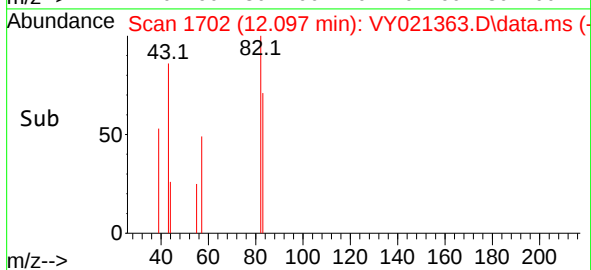
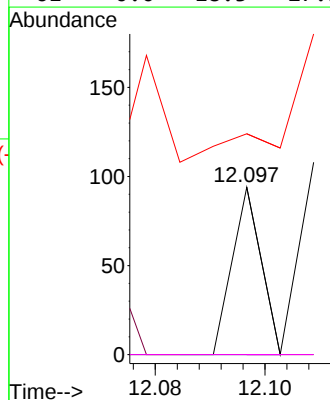
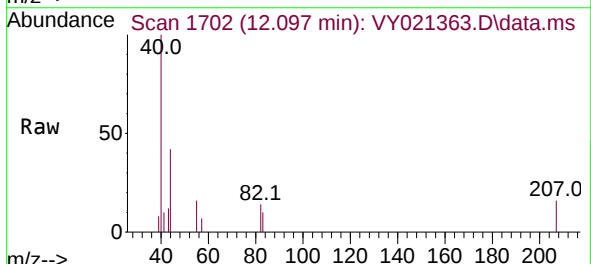
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-02212025

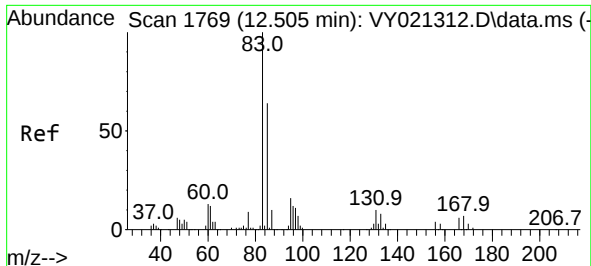
Tgt Ion:152 Resp: 326
Ion Ratio Lower Upper
152 100
115 12.6 29.3 88.0#
150 92.3 0.0 347.4



#74
N-ethyl acetate
Concen: 5.458 ug/l
RT: 12.097 min Scan# 1702
Delta R.T. 0.024 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

Tgt Ion: 43 Resp: 34
Ion Ratio Lower Upper
43 100
70 0.0 32.2 48.2#
55 0.0 19.6 29.4#
61 0.0 18.3 27.5#

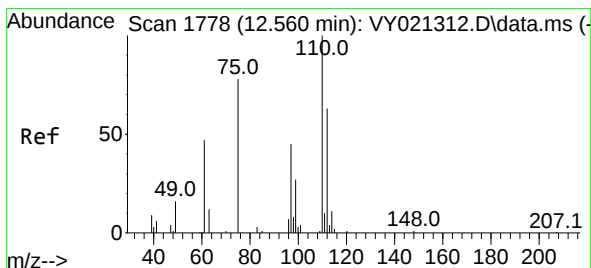
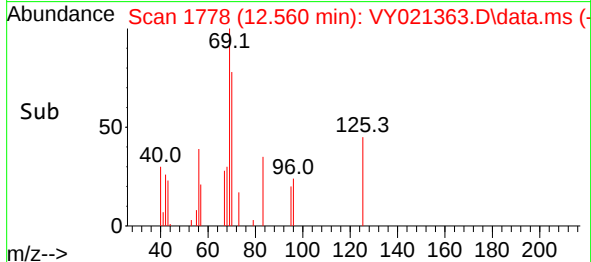
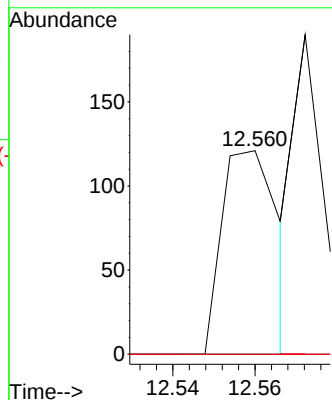
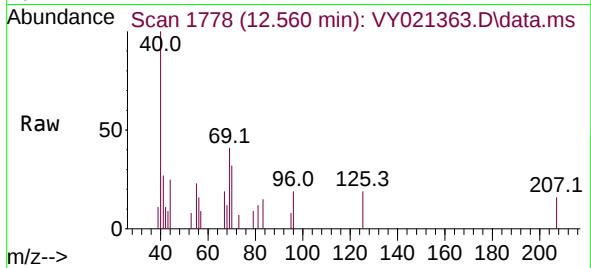




#75
 1,1,2,2-Tetrachloroethane
 Concen: 26.818 ug/l
 RT: 12.560 min Scan# 11
 Delta R.T. 0.055 min
 Lab File: VY021363.D
 Acq: 27 Feb 2025 17:09

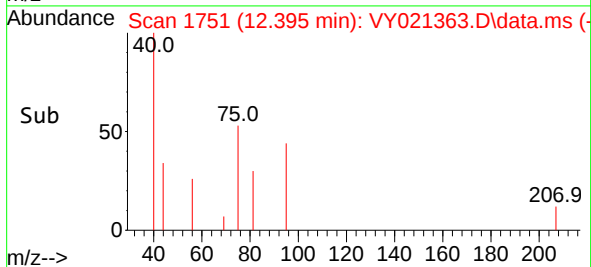
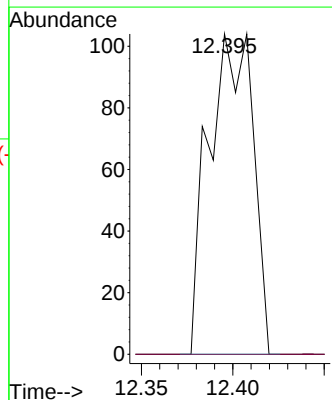
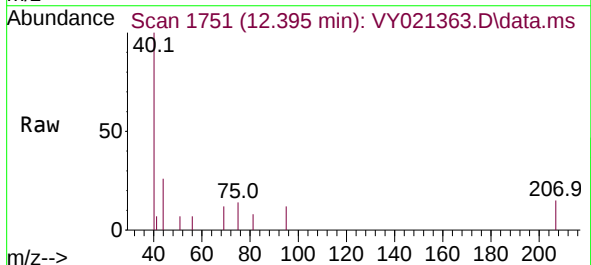
Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-03-02212025

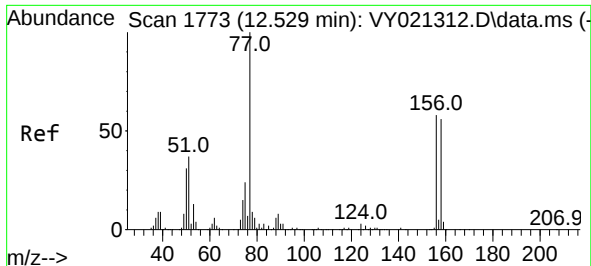
Tgt Ion: 83 Resp: 116
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.2 15.6#
 85 0.0 32.0 96.0#



#76
 1,2,3-Trichloropropane
 Concen: 53.937 ug/l
 RT: 12.395 min Scan# 1751
 Delta R.T. -0.165 min
 Lab File: VY021363.D
 Acq: 27 Feb 2025 17:09

Tgt Ion: 75 Resp: 176
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0

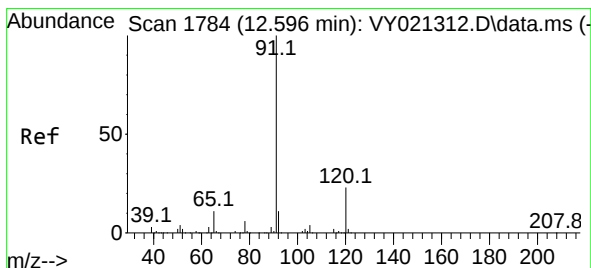
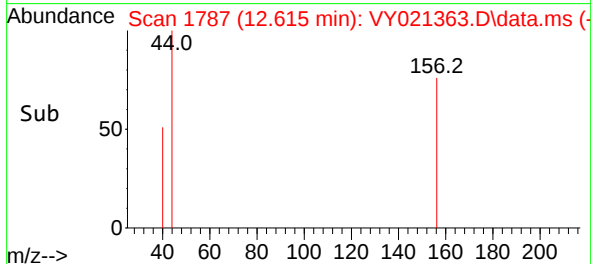
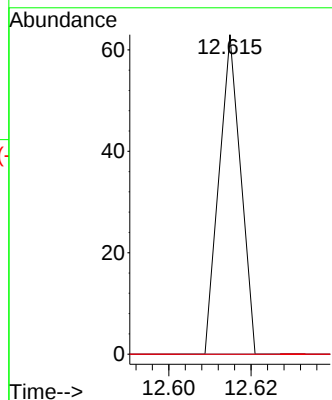
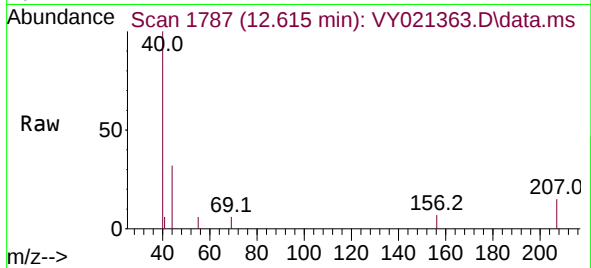




#77
Bromobenzene
Concen: 4.035 ug/l
RT: 12.615 min Scan# 1787
Delta R.T. 0.085 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

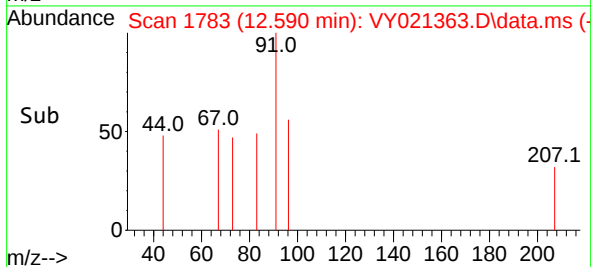
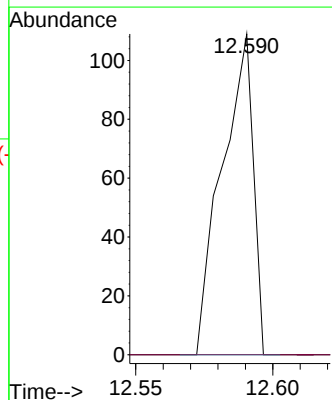
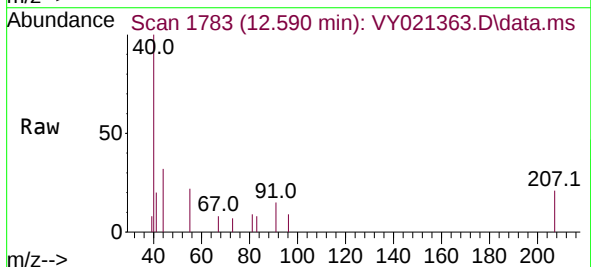
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-02212025

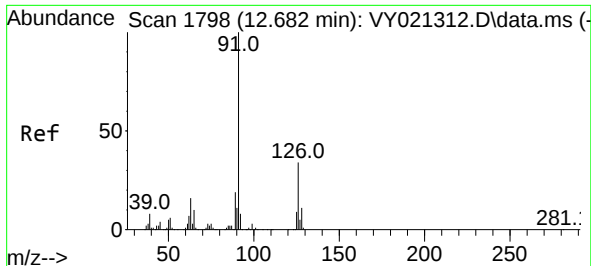
Tgt Ion:156 Resp: 23
Ion Ratio Lower Upper
156 100
77 0.0 94.0 282.1#
158 0.0 48.7 146.1#



#78
n-propylbenzene
Concen: 2.892 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.006 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

Tgt Ion: 91 Resp: 86
Ion Ratio Lower Upper
91 100
120 0.0 11.2 33.5#





#79

2-Chlorotoluene

Concen: 1.582 ug/l

RT: 12.706 min Scan# 1798

Delta R.T. 0.024 min

Lab File: VY021363.D

Acq: 27 Feb 2025 17:09

Instrument :

MSVOA_Y

ClientSampleId :

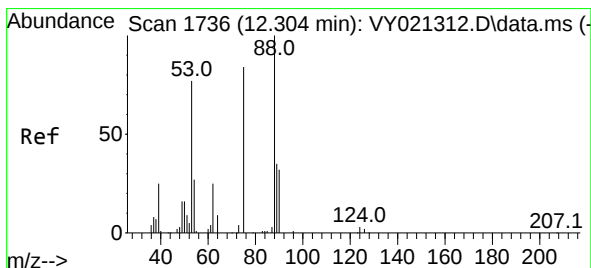
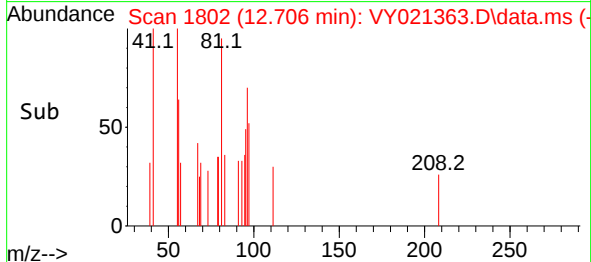
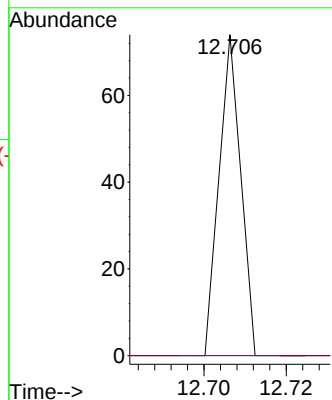
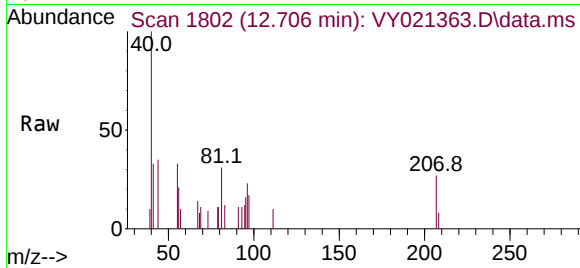
HR-03-02212025

Tgt Ion: 91 Resp: 27

Ion Ratio Lower Upper

91 100

126 0.0 16.9 50.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 119.882 ug/l

RT: 12.395 min Scan# 1751

Delta R.T. 0.092 min

Lab File: VY021363.D

Acq: 27 Feb 2025 17:09

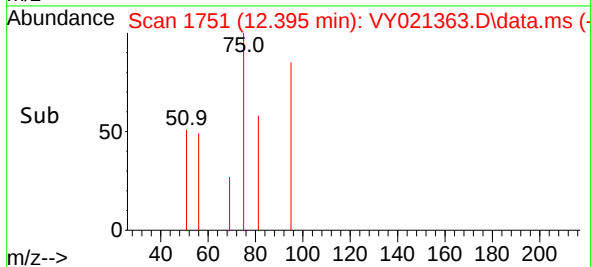
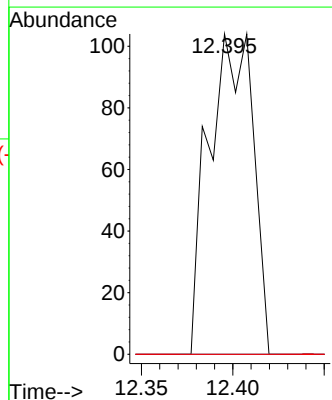
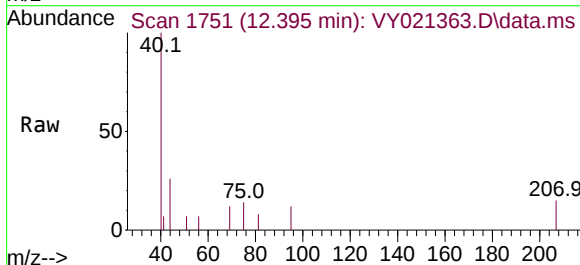
Tgt Ion: 75 Resp: 176

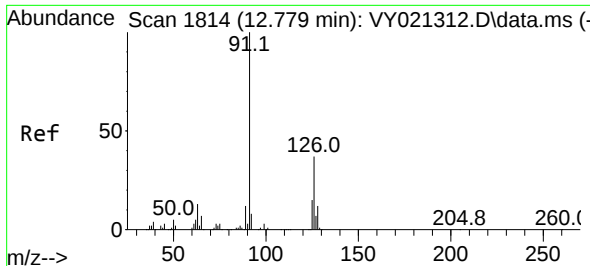
Ion Ratio Lower Upper

75 100

53 0.0 79.1 118.7#

89 0.0 35.6 53.4#

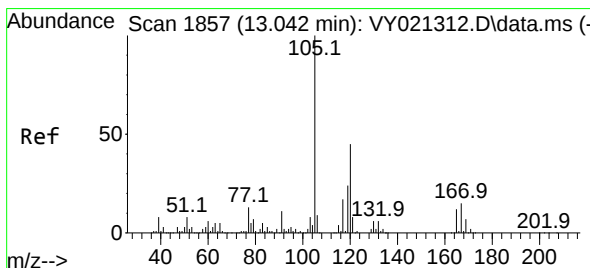
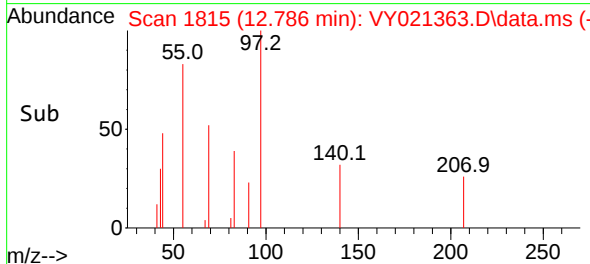
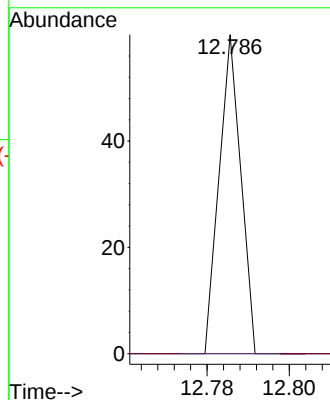
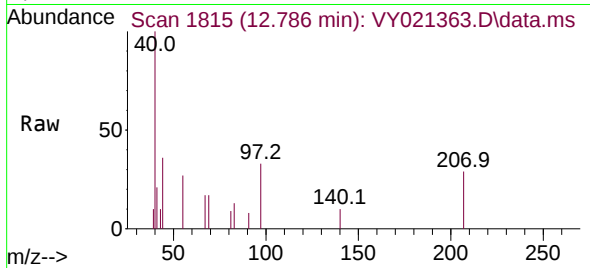




#82
4-Chlorotoluene
Concen: 1.243 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.006 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

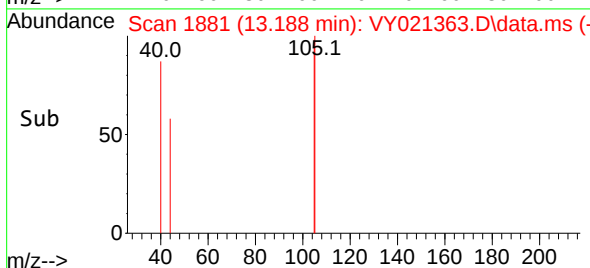
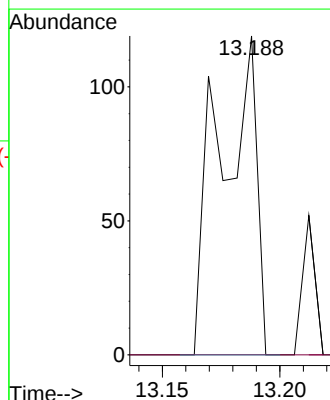
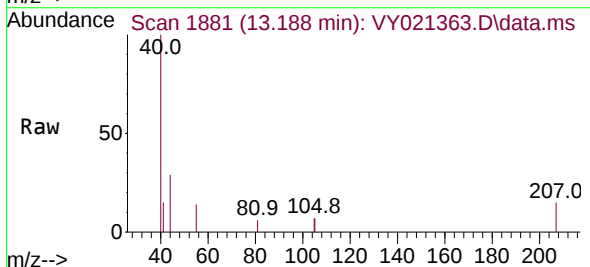
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-02212025

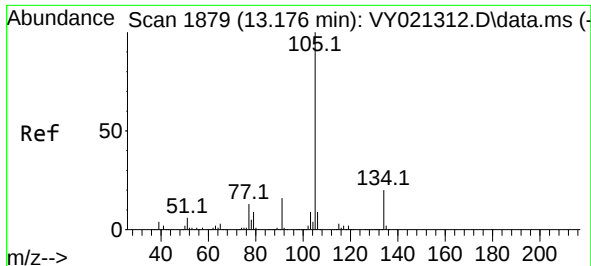
Tgt Ion: 91 Resp: 22
Ion Ratio Lower Upper
91 100
126 0.0 16.8 50.4#



#84
1,2,4-Trimethylbenzene
Concen: 6.453 ug/l
RT: 13.188 min Scan# 1881
Delta R.T. 0.146 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

Tgt Ion: 105 Resp: 129
Ion Ratio Lower Upper
105 100
120 0.0 22.4 67.3#

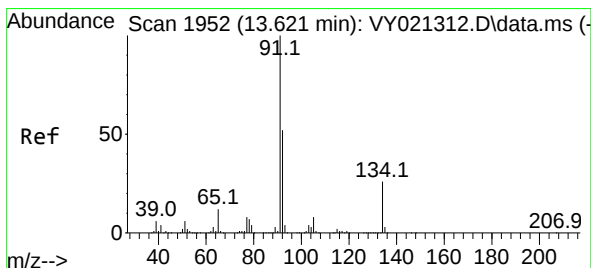
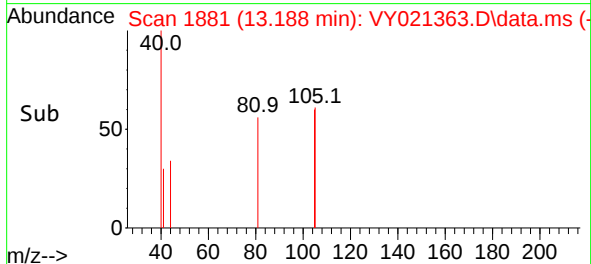
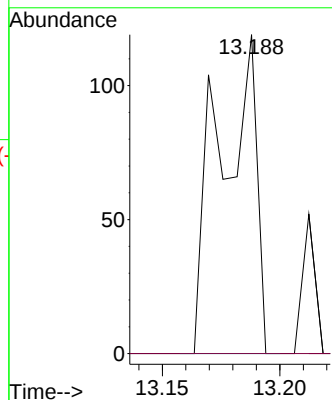
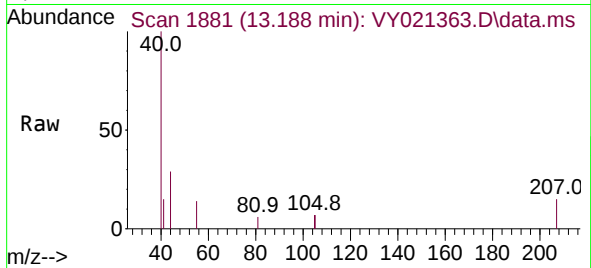




#85
 sec-Butylbenzene
 Concen: 4.864 ug/l
 RT: 13.188 min Scan# 1881
 Delta R.T. 0.012 min
 Lab File: VY021363.D
 Acq: 27 Feb 2025 17:09

Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-03-02212025

Tgt Ion:105 Resp: 129
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.0 30.0#



#89
 n-Butylbenzene
 Concen: 2.783 ug/l
 RT: 13.621 min Scan# 1952
 Delta R.T. 0.000 min
 Lab File: VY021363.D
 Acq: 27 Feb 2025 17:09

Tgt Ion: 91 Resp: 58
 Ion Ratio Lower Upper
 91 100
 92 0.0 26.4 79.2#
 134 0.0 12.7 38.0#

