

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050223\
 Data File : VY013551.D
 Acq On : 02 May 2023 13:03
 Operator : KP/MD
 Sample : 02563-01
 Misc : 4.99g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-01-042823

Quant Time: May 03 01:33:03 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042423S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:39:58 2023
 Response via : Initial Calibration

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

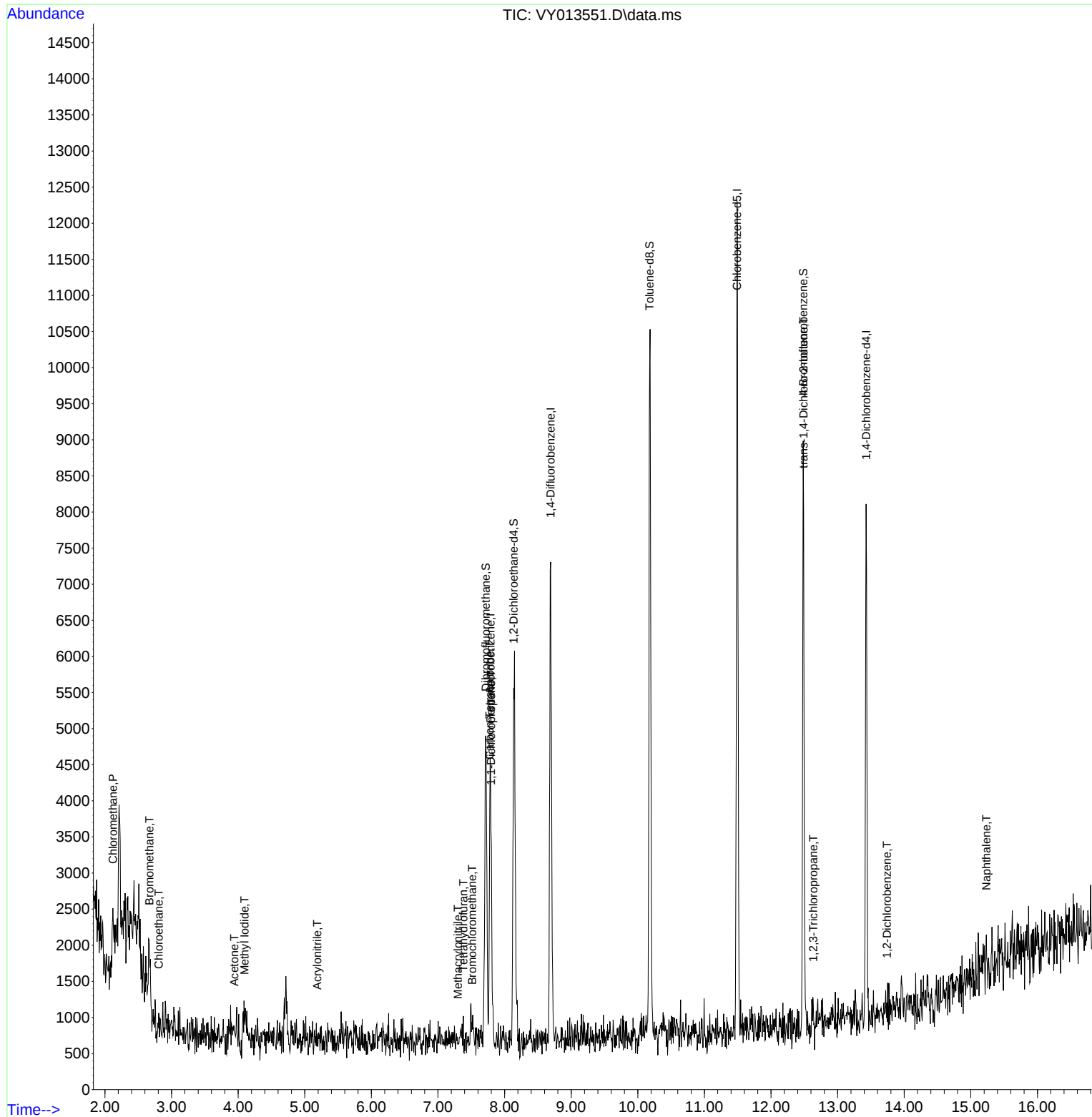
Internal Standards						
1) Pentafluorobenzene	7.789	168	3526	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	6070	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	6244	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	1957	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	4413	114.170	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 228.340%#	
35) Dibromofluoromethane	7.716	113	2878	75.385	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 150.760%#	
50) Toluene-d8	10.179	98	7603	55.981	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 111.960%	
62) 4-Bromofluorobenzene	12.483	95	2345	51.217	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 102.440%	
Target Compounds						
						Qvalue
3) Chloromethane	2.119	50	488	10.861	ug/l #	84
5) Bromomethane	2.668	94	401	11.248	ug/l	91
6) Chloroethane	2.808	64	59	1.909	ug/l #	44
10) Methyl Iodide	4.094	142	217	4.545	ug/l #	39
15) Acrylonitrile	5.186	53	29	2.244	ug/l #	18
16) Acetone	3.942	43	146	9.591	ug/l #	43
20) Methylene Chloride	4.704	84	218	Below Cal	#	80
28) Bromochloromethane	7.515	49	28	1.065	ug/l #	7
29) Tetrahydrofuran	7.380	42	38	3.162	ug/l #	32
36) 1,1-Dichloropropene	7.795	75	166	2.620	ug/l #	40
38) Carbon Tetrachloride	7.777	117	210	3.162	ug/l #	11
41) Methacrylonitrile	7.301	41	26	1.170	ug/l #	21
76) 1,2,3-Trichloropropane	12.636	75	48	1.819	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.489	75	1281	99.284	ug/l #	12
91) 1,2-Dichlorobenzene	13.739	146	78	1.264	ug/l #	25
95) Naphthalene	15.233	128	290	3.633	ug/l #	69

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

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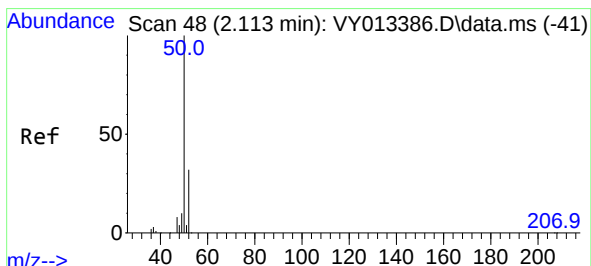
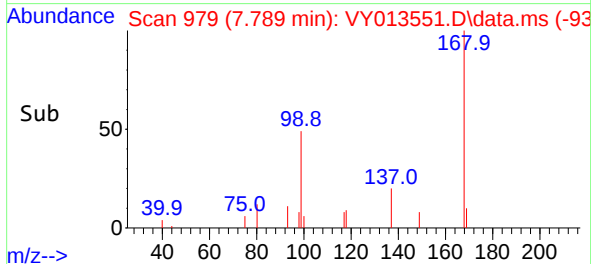
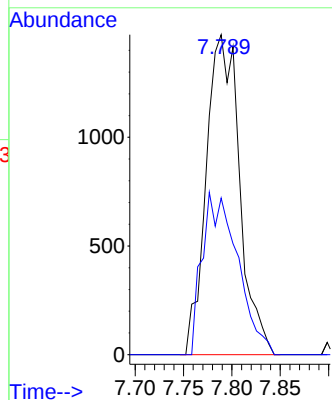
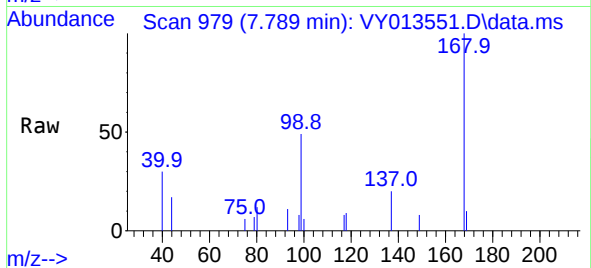




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

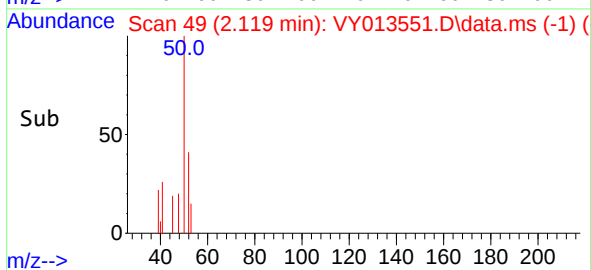
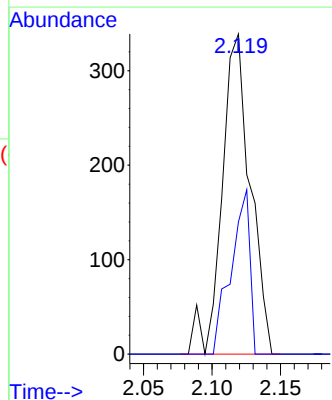
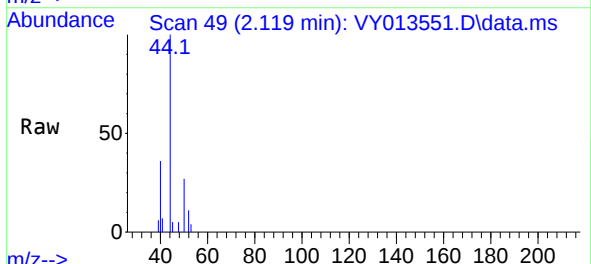
Instrument :
MSVOA_Y
ClientSampleId :
HR-01-042823

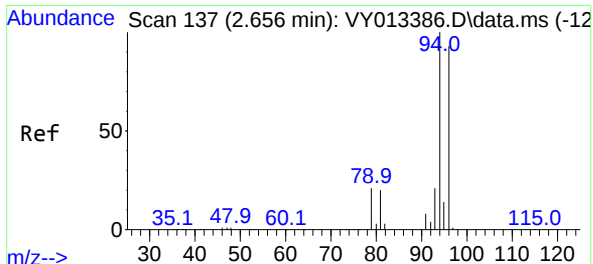
Tgt Ion:168 Resp: 3526
Ion Ratio Lower Upper
168 100
99 49.0 41.8 62.6



#3
Chloromethane
Concen: 10.861 ug/l
RT: 2.119 min Scan# 49
Delta R.T. 0.006 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

Tgt Ion: 50 Resp: 488
Ion Ratio Lower Upper
50 100
52 41.3 25.9 38.9#





#5

Bromomethane

Concen: 11.248 ug/l

RT: 2.668 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY013551.D

Acq: 02 May 2023 13:03

Instrument :

MSVOA_Y

ClientSampleId :

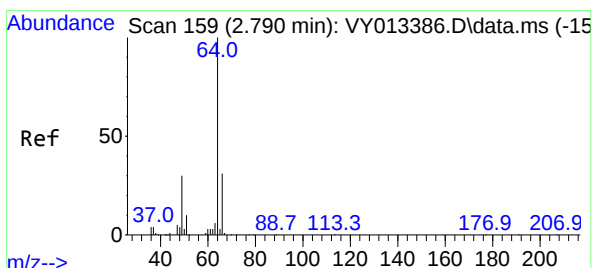
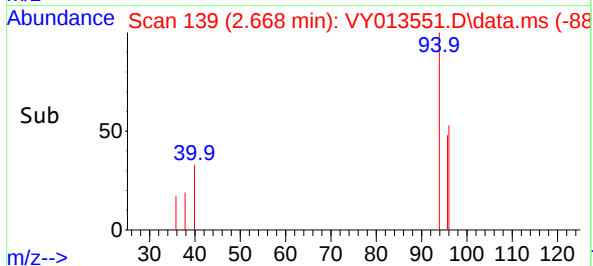
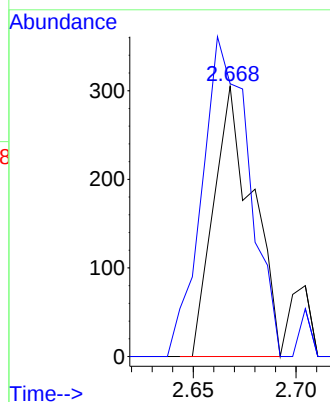
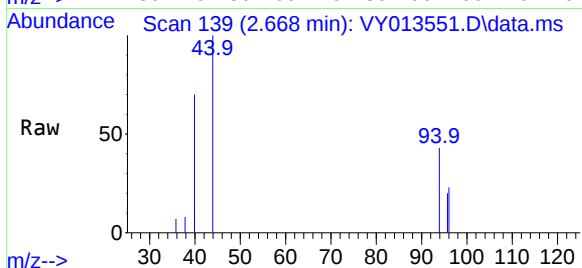
HR-01-042823

Tgt Ion: 94 Resp: 401

Ion Ratio Lower Upper

94 100

96 101.0 74.2 111.2



#6

Chloroethane

Concen: 1.909 ug/l

RT: 2.808 min Scan# 162

Delta R.T. 0.018 min

Lab File: VY013551.D

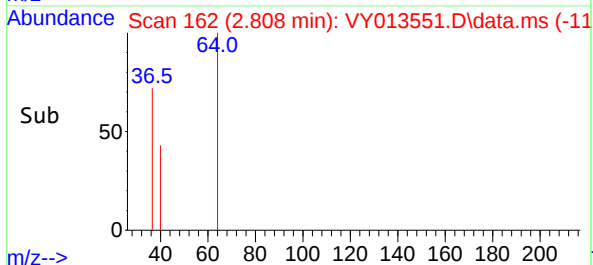
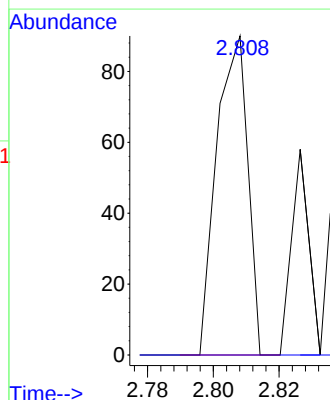
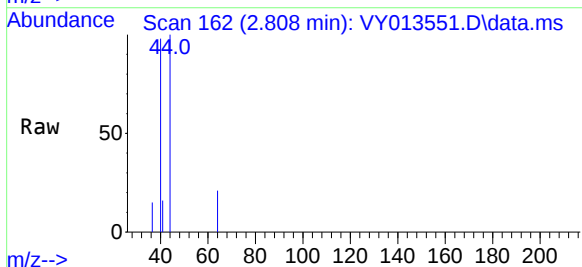
Acq: 02 May 2023 13:03

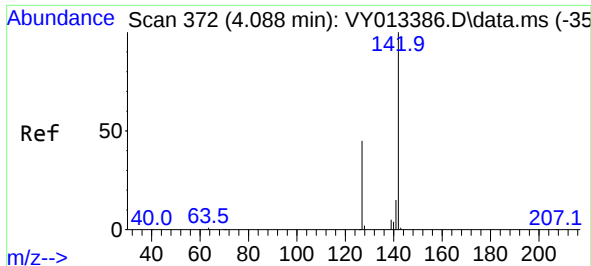
Tgt Ion: 64 Resp: 59

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#

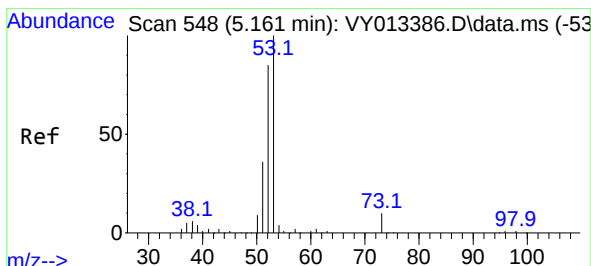
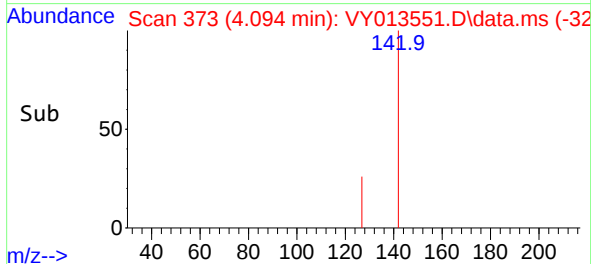
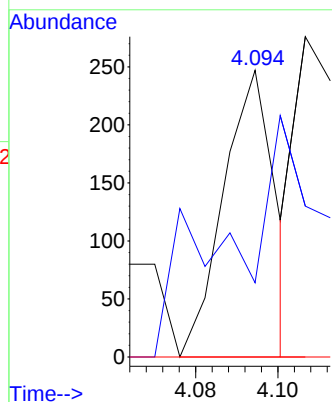
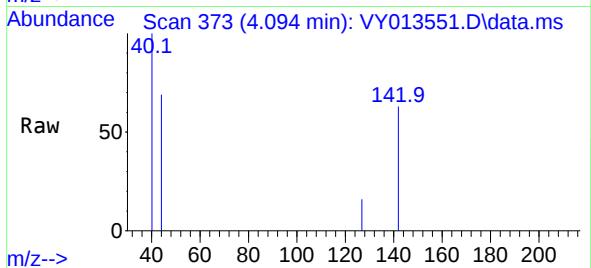




#10
Methyl Iodide
Concen: 4.545 ug/l
RT: 4.094 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

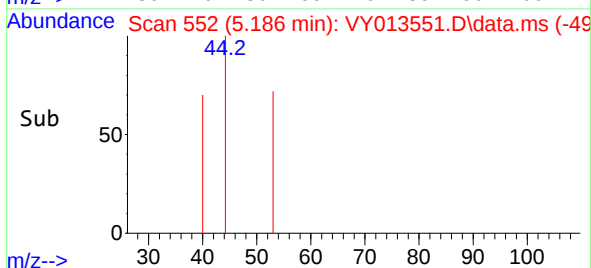
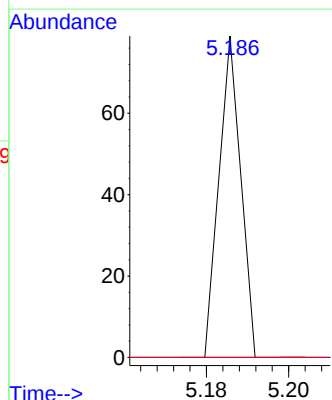
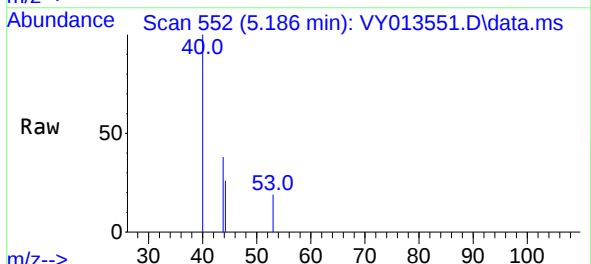
Instrument :
MSVOA_Y
ClientSampleId :
HR-01-042823

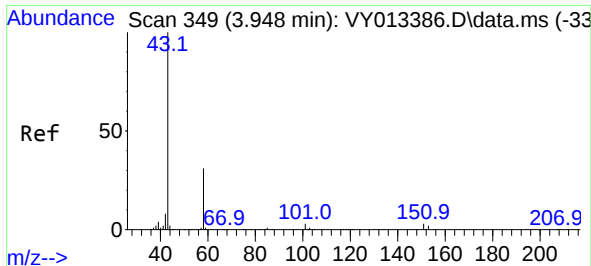
Tgt Ion:142 Resp: 217
Ion Ratio Lower Upper
142 100
127 0.0 36.1 54.1#
141 0.0 11.6 17.4#



#15
Acrylonitrile
Concen: 2.244 ug/l
RT: 5.186 min Scan# 552
Delta R.T. 0.025 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

Tgt Ion: 53 Resp: 29
Ion Ratio Lower Upper
53 100
52 0.0 65.4 98.0#
51 0.0 29.3 43.9#

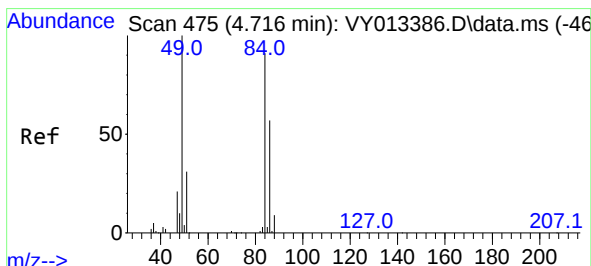
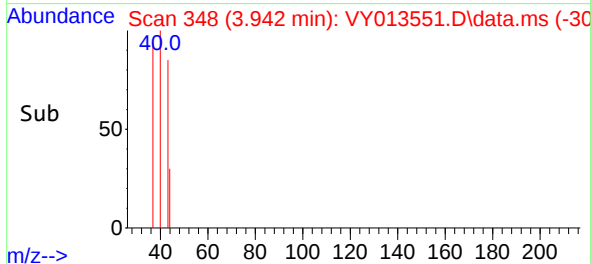
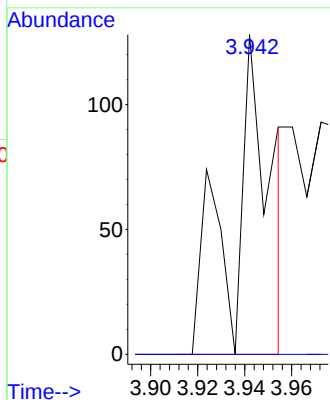
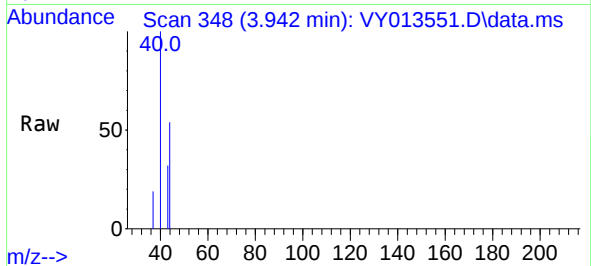




#16
Acetone
Concen: 9.591 ug/l
RT: 3.942 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

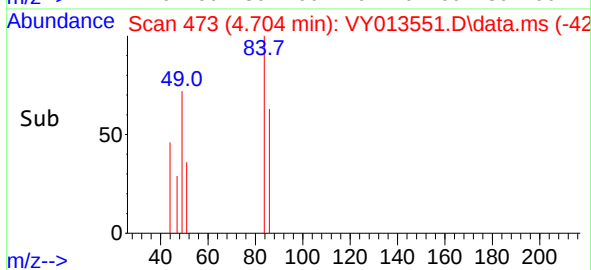
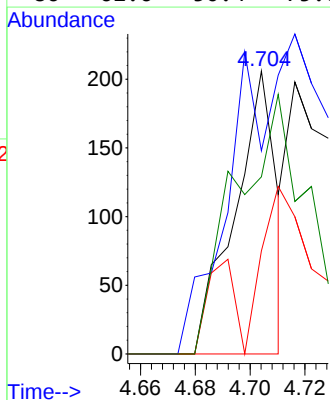
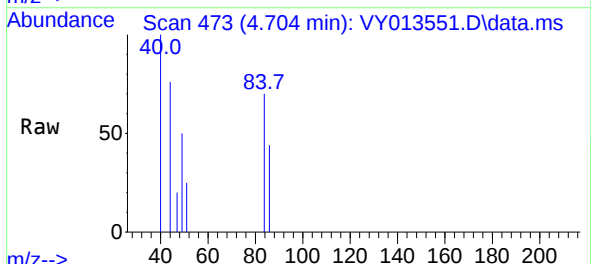
Instrument :
MSVOA_Y
ClientSampleId :
HR-01-042823

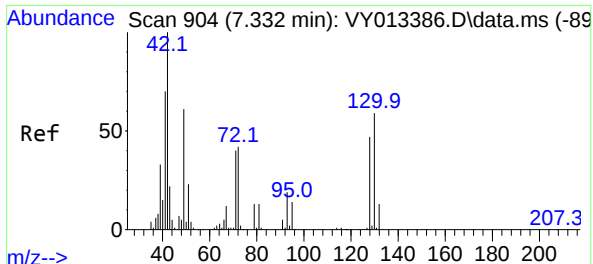
Tgt Ion: 43 Resp: 146
Ion Ratio Lower Upper
43 100
58 0.0 25.4 38.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.704 min Scan# 473
Delta R.T. -0.012 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

Tgt Ion: 84 Resp: 218
Ion Ratio Lower Upper
84 100
49 71.8 88.0 132.0#
51 36.4 27.4 41.0
86 62.6 50.4 75.6

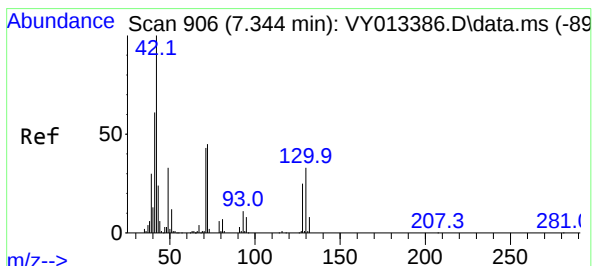
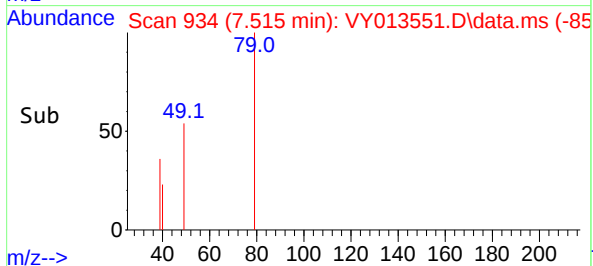
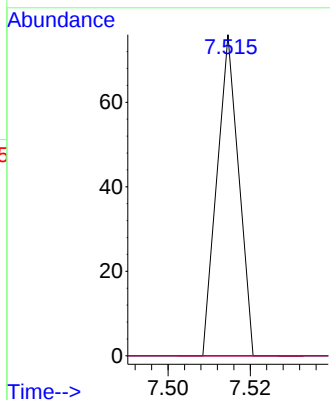
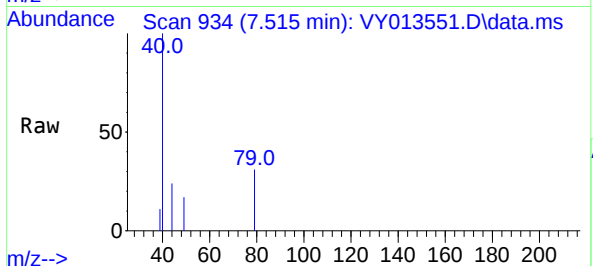




#28
Bromochloromethane
Concen: 1.065 ug/l
RT: 7.515 min Scan# 911
Delta R.T. 0.183 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

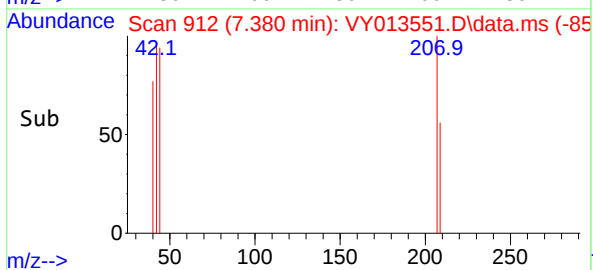
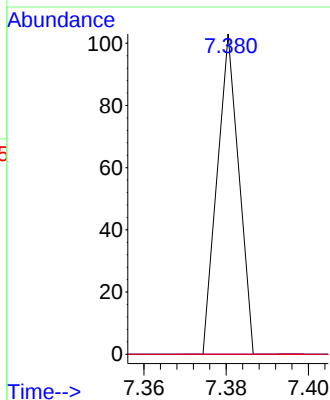
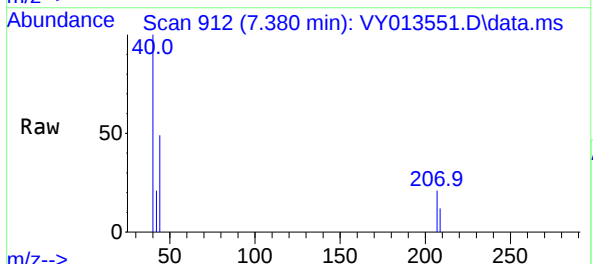
Instrument :
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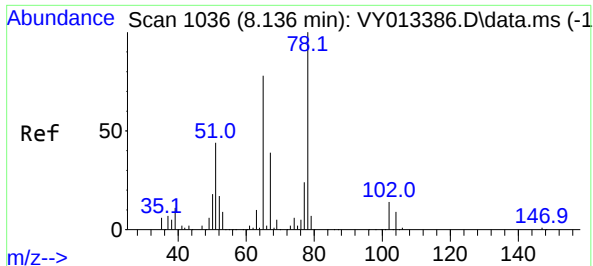
Tgt Ion: 49 Resp: 28
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.2
130 0.0 72.1 108.1#



#29
Tetrahydrofuran
Concen: 3.162 ug/l
RT: 7.380 min Scan# 912
Delta R.T. 0.036 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

Tgt Ion: 42 Resp: 38
Ion Ratio Lower Upper
42 100
72 0.0 35.9 53.9#
71 0.0 34.3 51.5#





#33

1,2-Dichloroethane-d4

Concen: 114.170 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY013551.D

Acq: 02 May 2023 13:03

Instrument :

MSVOA_Y

ClientSampleId :

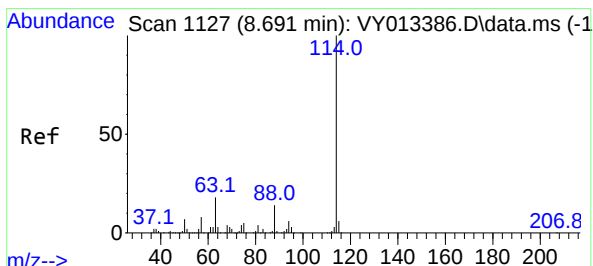
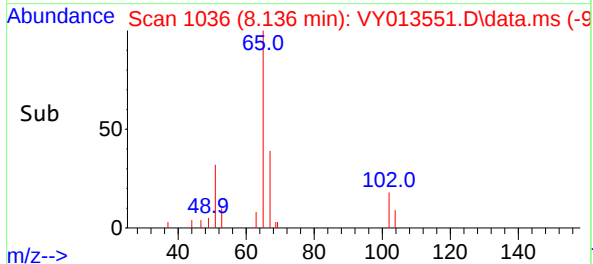
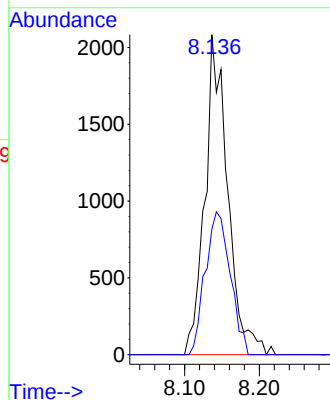
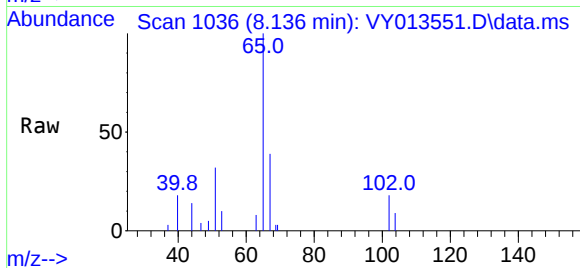
HR-01-042823

Tgt Ion: 65 Resp: 4413

Ion Ratio Lower Upper

65 100

67 48.8 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY013551.D

Acq: 02 May 2023 13:03

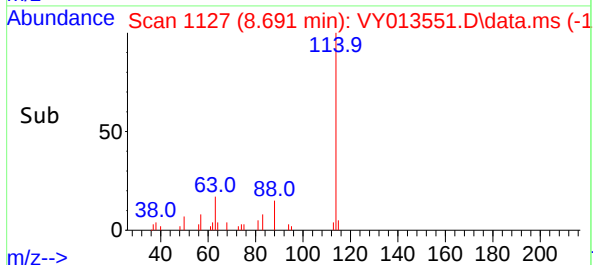
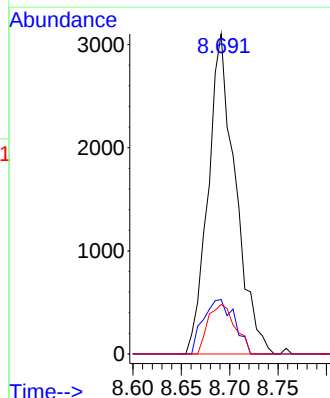
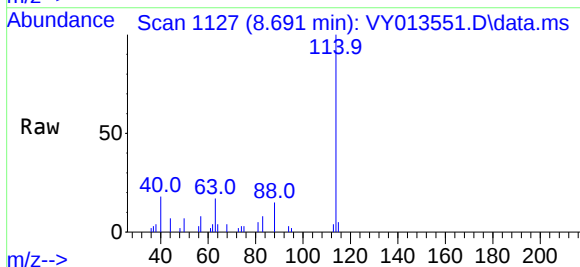
Tgt Ion: 114 Resp: 6070

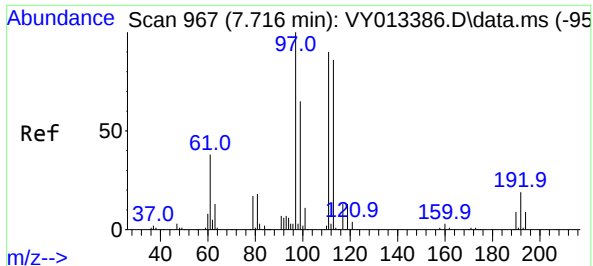
Ion Ratio Lower Upper

114 100

63 17.0 0.0 36.6

88 15.4 0.0 28.8

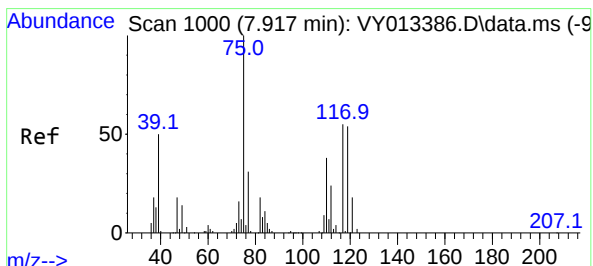
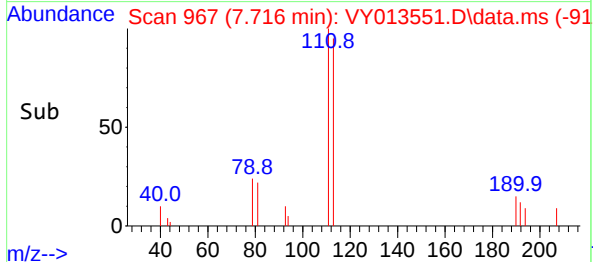
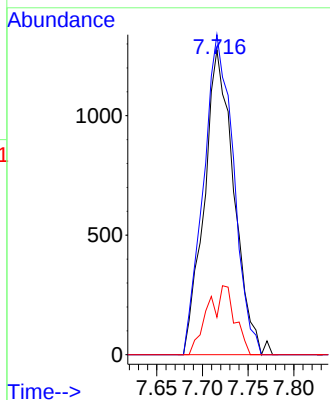
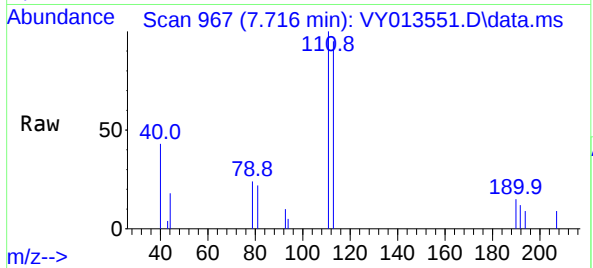




#35
Dibromofluoromethane
Concen: 75.385 ug/l
RT: 7.716 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

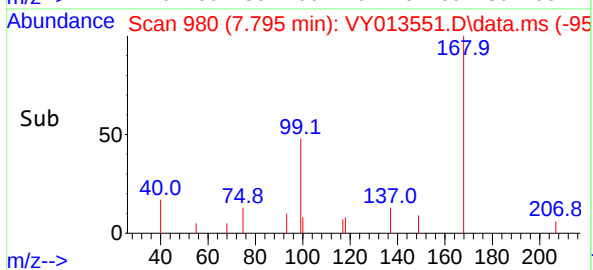
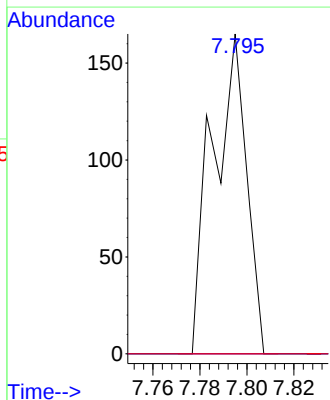
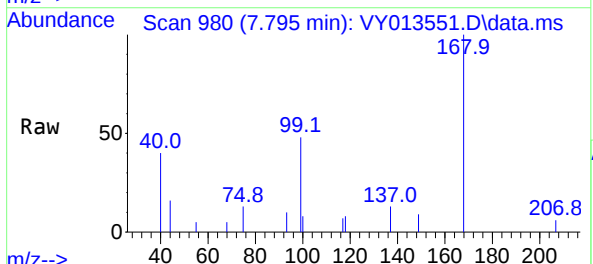
Instrument :
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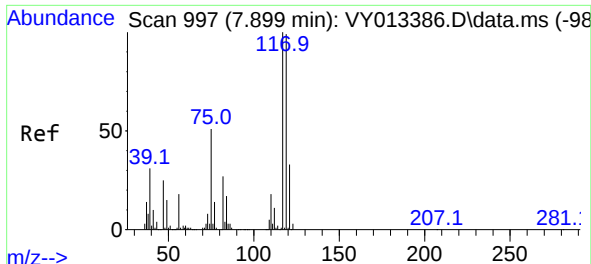
Tgt Ion:	113	Resp:	2878
Ion	Ratio	Lower	Upper
113	100		
111	106.5	82.2	123.2
192	20.7	16.7	25.1



#36
1,1-Dichloropropene
Concen: 2.620 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.122 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

Tgt Ion:	75	Resp:	166
Ion	Ratio	Lower	Upper
75	100		
110	0.0	18.7	56.1#
77	0.0	24.6	37.0#

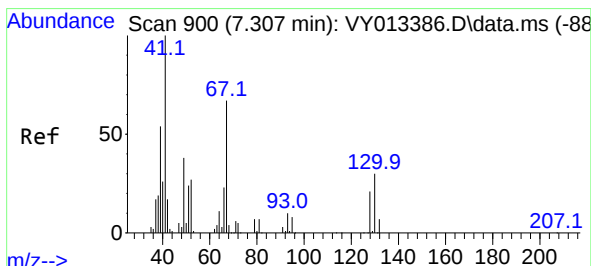
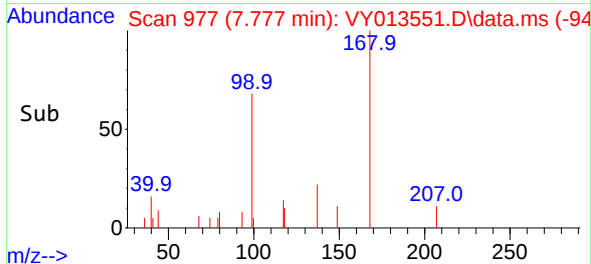
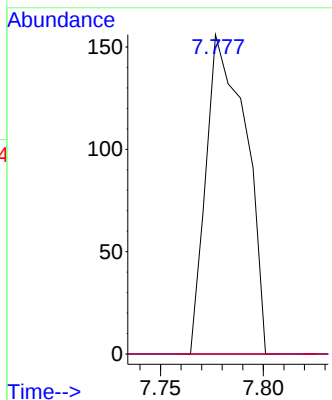
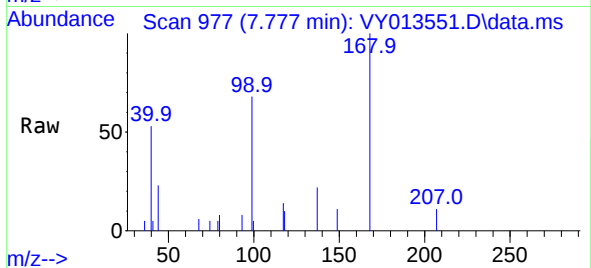




#38
Carbon Tetrachloride
Concen: 3.162 ug/l
RT: 7.777 min Scan# 911
Delta R.T. -0.122 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

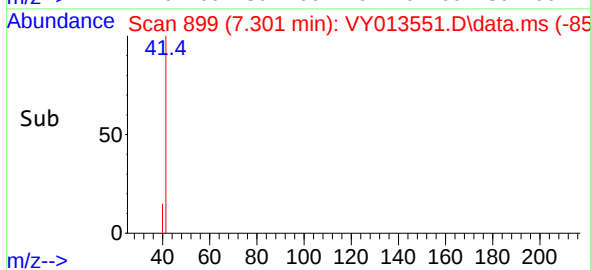
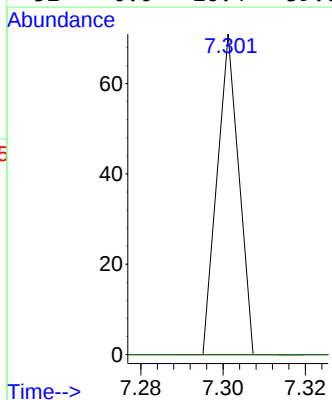
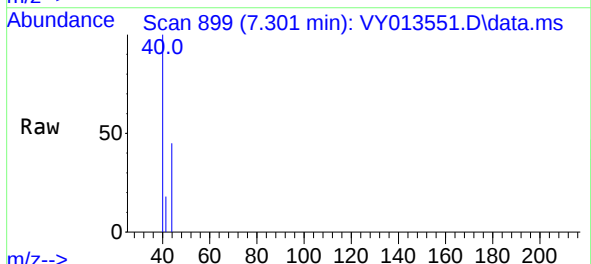
Instrument :
MSVOA_Y
ClientSampleId :
HR-01-042823

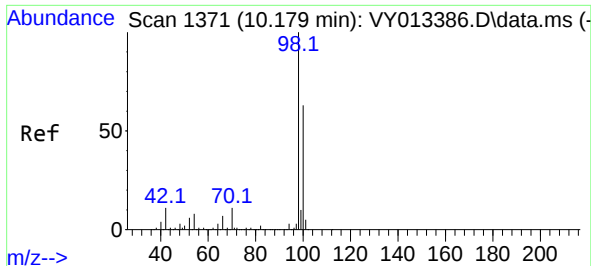
Tgt Ion:117 Resp: 210
Ion Ratio Lower Upper
117 100
119 0.0 79.0 118.6#
121 0.0 26.6 40.0#



#41
Methacrylonitrile
Concen: 1.170 ug/l
RT: 7.301 min Scan# 899
Delta R.T. -0.006 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

Tgt Ion: 41 Resp: 26
Ion Ratio Lower Upper
41 100
39 0.0 44.2 66.4#
67 0.0 62.9 94.3#
52 0.0 26.4 39.6#

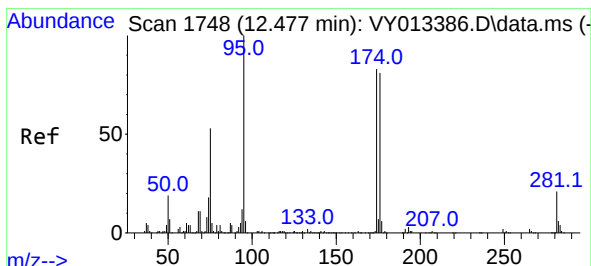
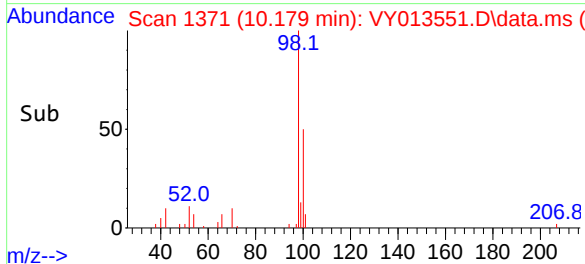
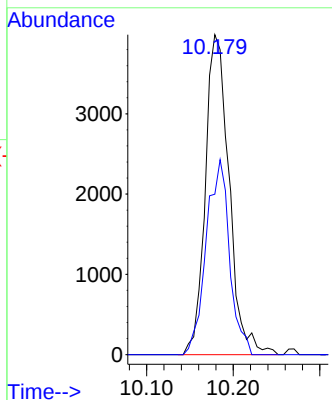
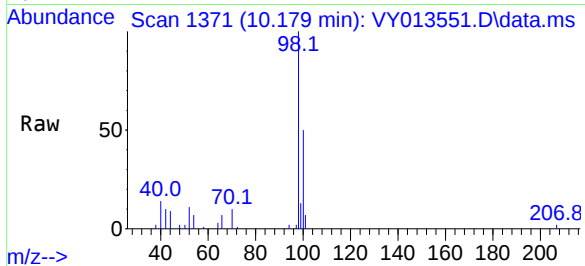




#50
Toluene-d8
Concen: 55.981 ug/l
RT: 10.179 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

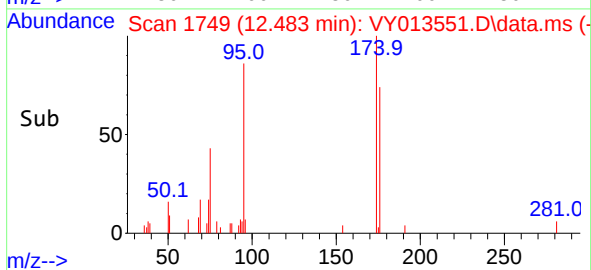
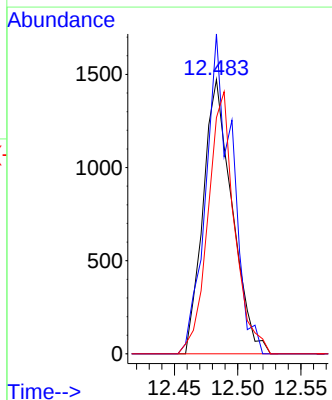
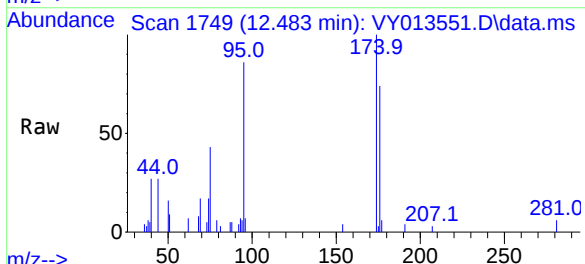
Instrument :
MSVOA_Y
ClientSampleId :
HR-01-042823

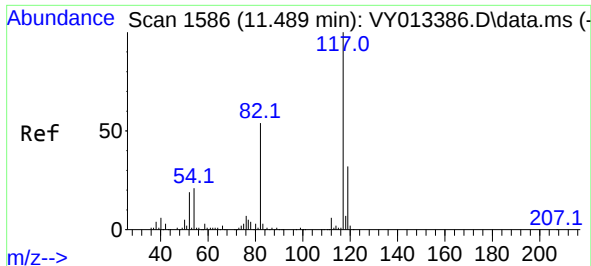
Tgt Ion: 98 Resp: 7603
Ion Ratio Lower Upper
98 100
100 59.7 50.5 75.7



#62
4-Bromofluorobenzene
Concen: 51.217 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

Tgt Ion: 95 Resp: 2345
Ion Ratio Lower Upper
95 100
174 106.8 0.0 182.0
176 87.6 0.0 175.4

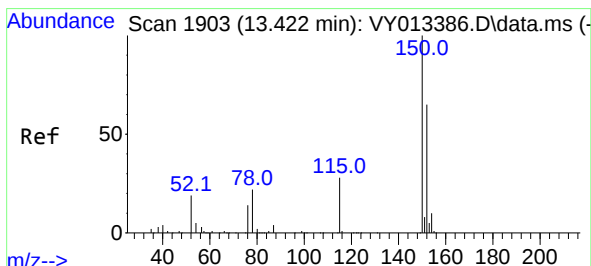
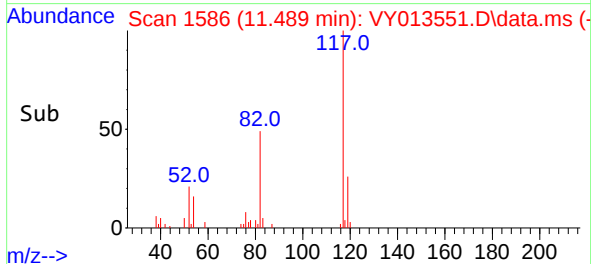
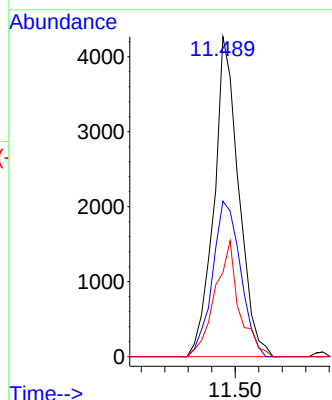
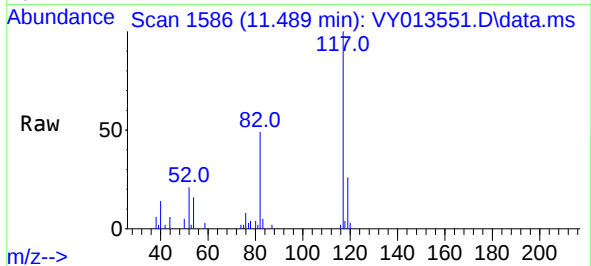




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

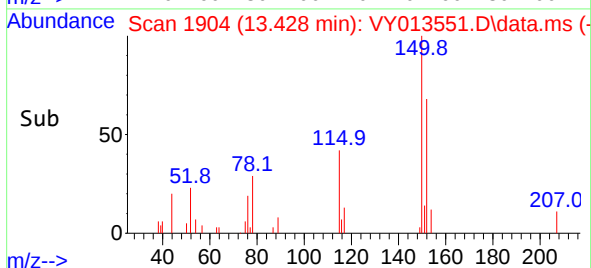
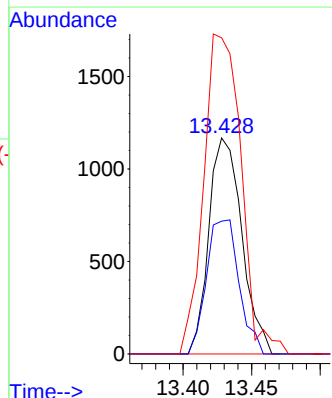
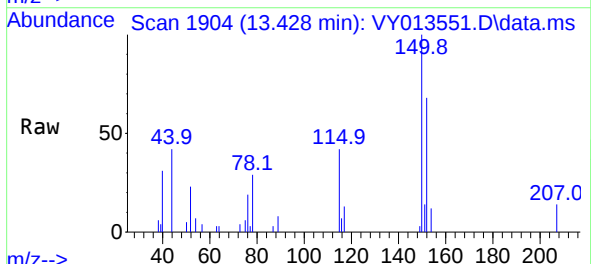
Instrument :
MSVOA_Y
ClientSampleId :
HR-01-042823

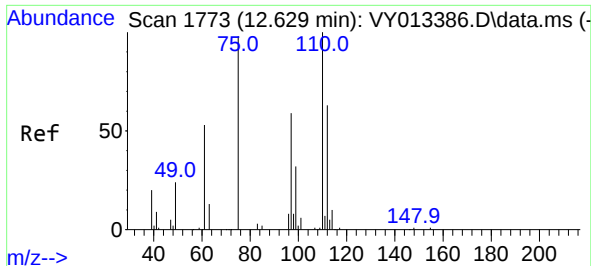
Tgt Ion:	117	Resp:	6244
Ion	Ratio	Lower	Upper
117	100		
82	48.6	43.0	64.6
119	26.2	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.006 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

Tgt Ion:	152	Resp:	1957
Ion	Ratio	Lower	Upper
152	100		
115	61.2	28.1	84.2
150	167.5	0.0	352.0

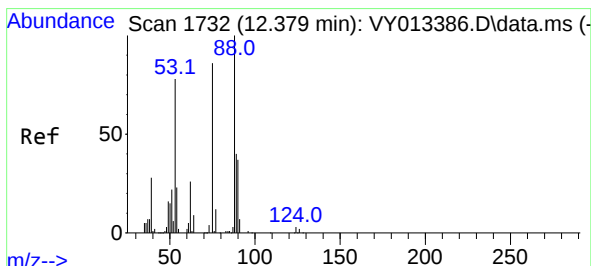
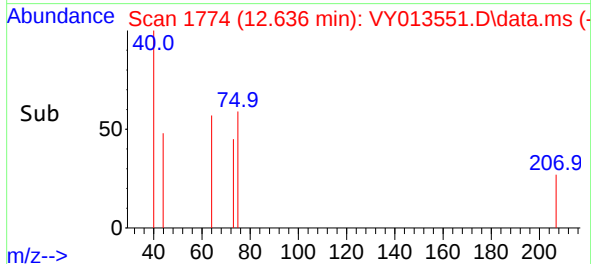
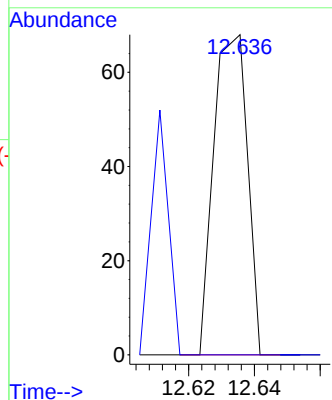
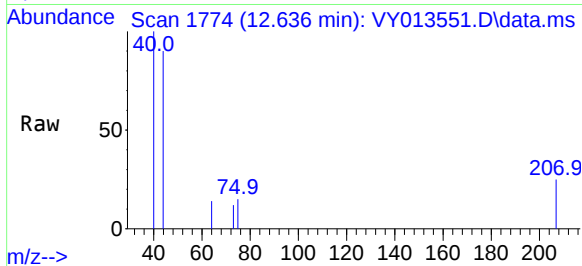




#76
1,2,3-Trichloropropane
Concen: 1.819 ug/l
RT: 12.636 min Scan# 11
Delta R.T. 0.007 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

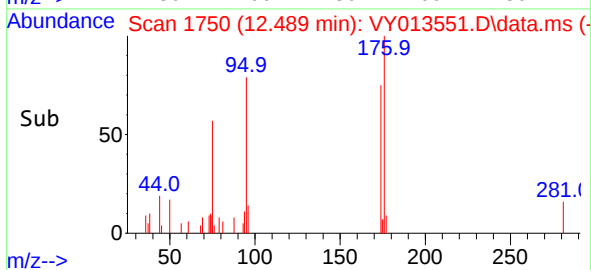
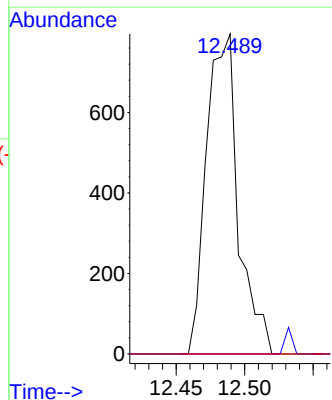
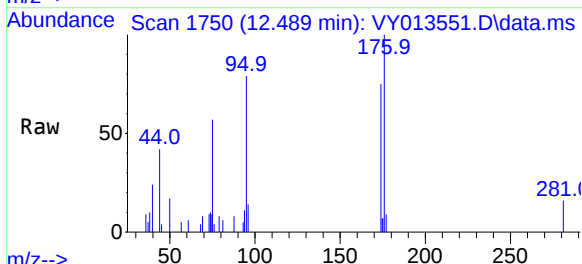
Instrument :
MSVOA_Y
ClientSampleId :
HR-01-042823

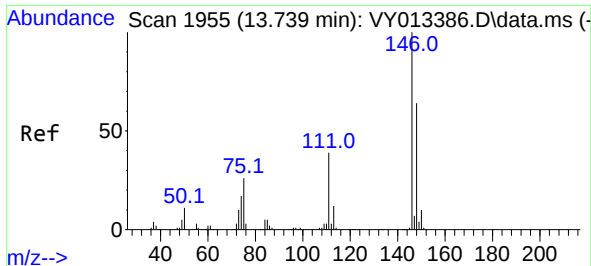
Tgt Ion: 75 Resp: 48
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 99.284 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.110 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

Tgt Ion: 75 Resp: 1281
Ion Ratio Lower Upper
75 100
53 0.0 73.2 109.8#
89 0.0 38.0 57.0#

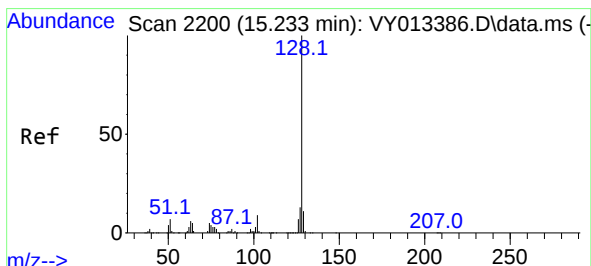
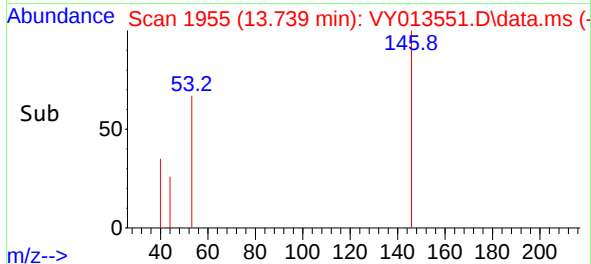
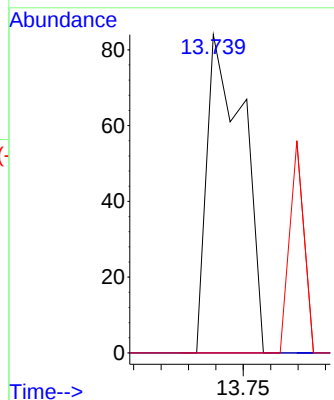
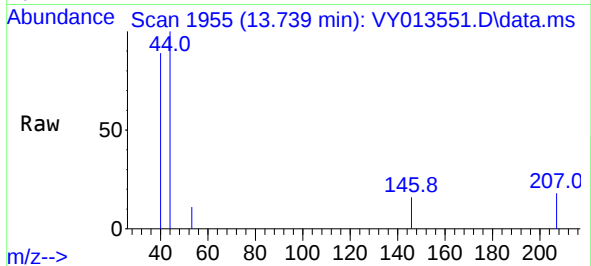




#91
1,2-Dichlorobenzene
Concen: 1.264 ug/l
RT: 13.739 min Scan# 1955
Delta R.T. 0.000 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

Instrument :
MSVOA_Y
ClientSampleId :
HR-01-042823

Tgt Ion:146	Resp:	78
Ion	Ratio	Lower Upper
146	100	
111	0.0	19.8 59.4#
148	0.0	31.8 95.4#



#95
Naphthalene
Concen: 3.633 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.000 min
Lab File: VY013551.D
Acq: 02 May 2023 13:03

Tgt Ion:128	Resp:	290
Ion	Ratio	Lower Upper
128	100	
127	0.0	10.7 16.1#
129	0.0	8.8 13.2#

