

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY061323\
 Data File : VY014149.D
 Acq On : 13 Jun 2023 19:00
 Operator : KP/MD
 Sample : 03160-03
 Misc : 4.25g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PNNL-B-0609-2

Quant Time: Jun 14 01:39:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060923S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 09 18:07:13 2023
 Response via : Initial Calibration

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

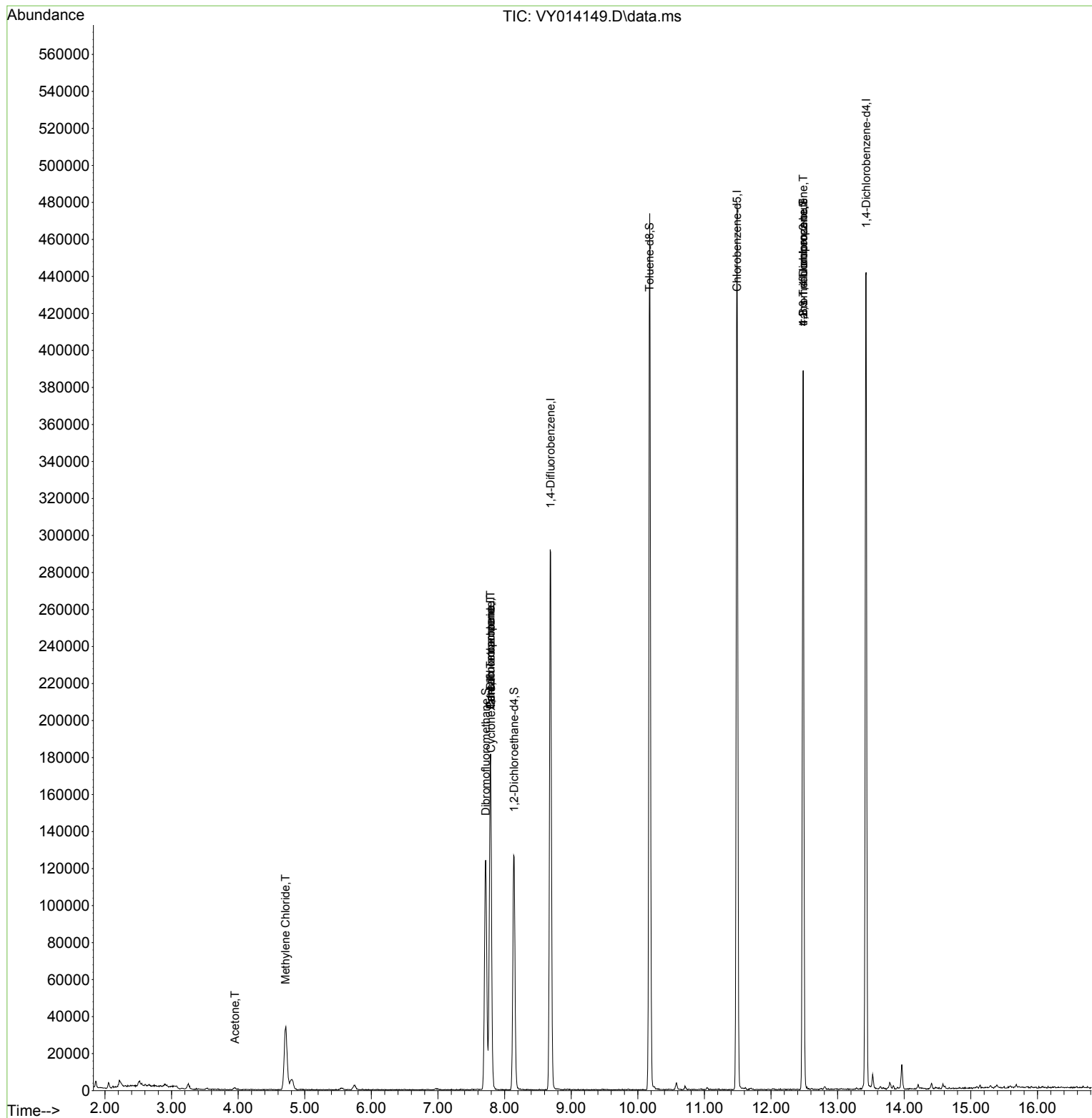
Internal Standards						
1) Pentafluorobenzene	7.789	168	138767	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	244401	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	254221	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	117747	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	107511	55.637	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 111.280%	
35) Dibromofluoromethane	7.716	113	84441	48.719	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 97.440%	
50) Toluene-d8	10.179	98	303041	46.767	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 93.540%	
62) 4-Bromofluorobenzene	12.483	95	103987	45.176	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 90.360%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.936	59	196	Below Cal	#	89
16) Acetone	3.954	43	2044	3.509	ug/l #	87
20) Methylene Chloride	4.710	84	25270	10.777	ug/l	90
31) Cyclohexane	7.795	56	3345	1.292	ug/l #	57
36) 1,1-Dichloropropene	7.789	75	10531	3.897	ug/l #	51
38) Carbon Tetrachloride	7.789	117	14318	4.592	ug/l #	16
76) 1,2,3-Trichloropropane	12.483	75	56747	36.734	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	56747	79.404	ug/l #	11

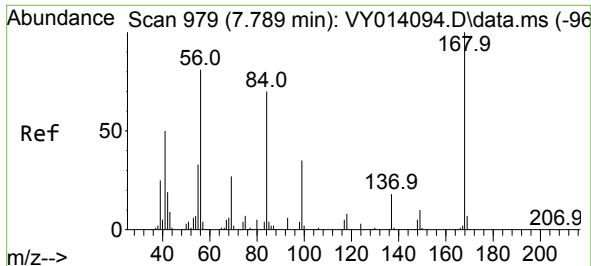
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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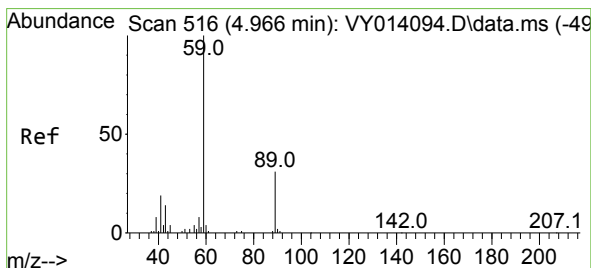
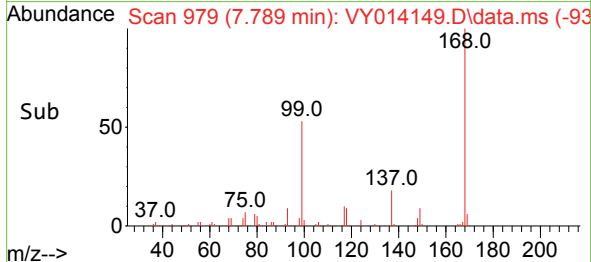
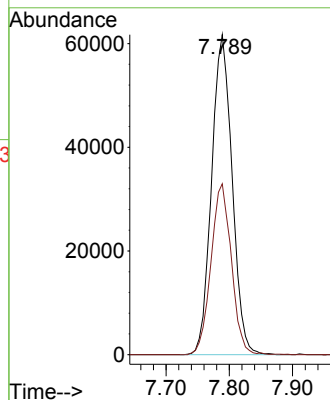
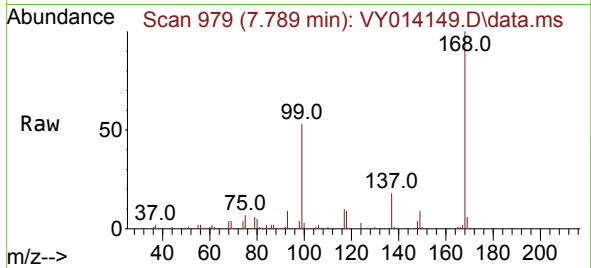




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014149.D
Acq: 13 Jun 2023 19:00

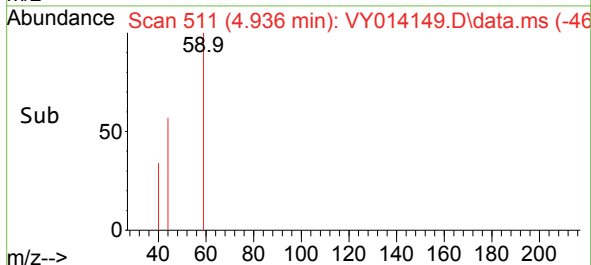
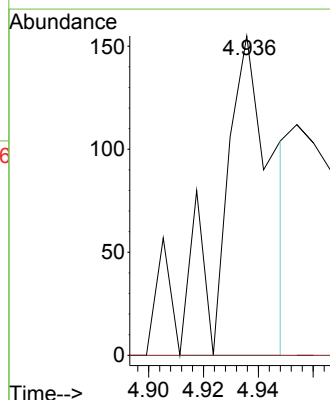
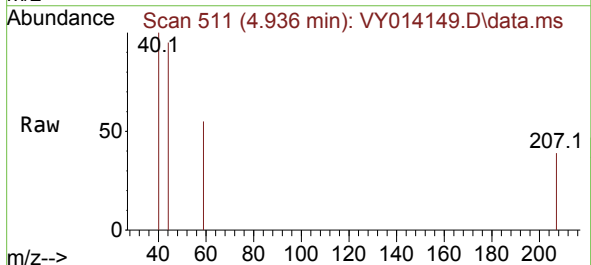
Instrument :
MSVOA_Y
ClientSampleId :
PNNL-B-0609-2

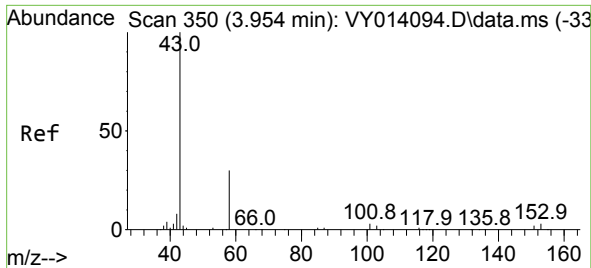
Tgt Ion:168 Resp: 138767
Ion Ratio Lower Upper
168 100
99 53.4 43.4 65.0



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.936 min Scan# 511
Delta R.T. -0.030 min
Lab File: VY014149.D
Acq: 13 Jun 2023 19:00

Tgt Ion: 59 Resp: 196
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#





#16

Acetone

Concen: 3.509 ug/l

RT: 3.954 min Scan# 31

Delta R.T. 0.000 min

Lab File: VY014149.D

Acq: 13 Jun 2023 19:00

Instrument :

MSVOA_Y

ClientSampleId :

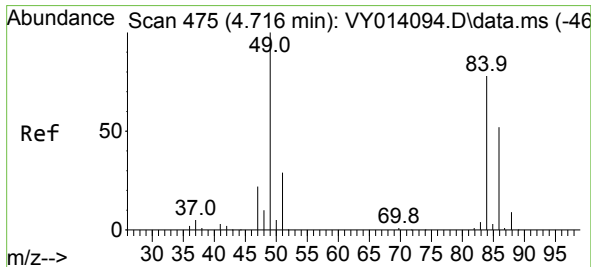
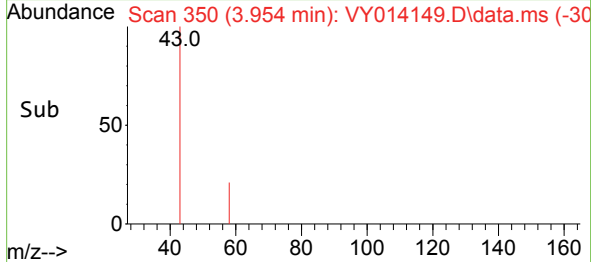
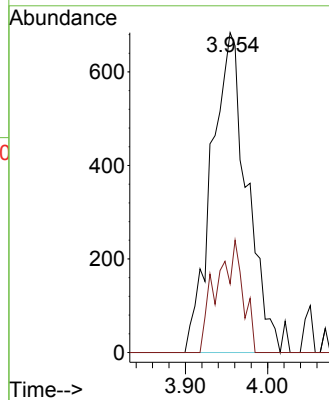
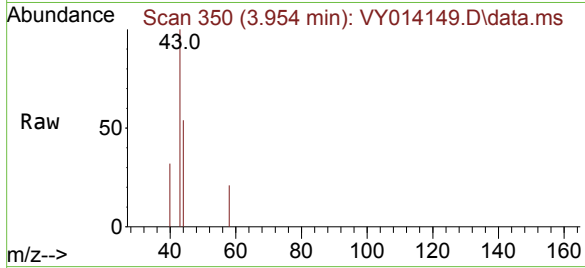
PNNL-B-0609-2

Tgt Ion: 43 Resp: 2044

Ion Ratio Lower Upper

43 100

58 21.5 22.7 34.1#



#20

Methylene Chloride

Concen: 10.777 ug/l

RT: 4.710 min Scan# 474

Delta R.T. -0.006 min

Lab File: VY014149.D

Acq: 13 Jun 2023 19:00

Tgt Ion: 84 Resp: 25270

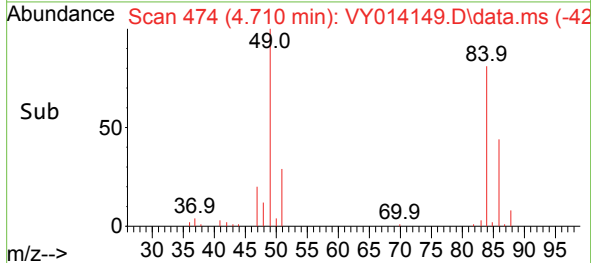
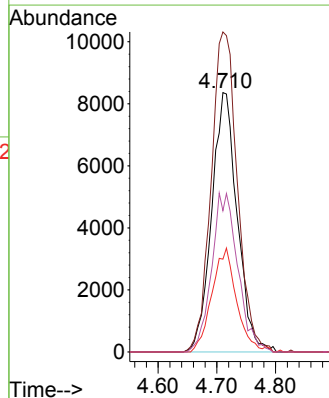
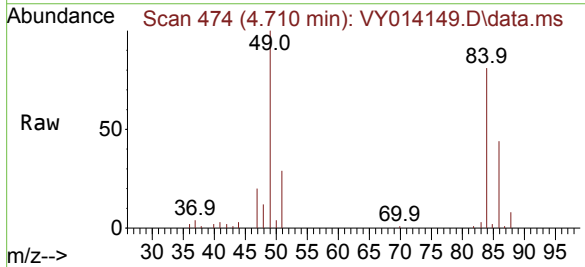
Ion Ratio Lower Upper

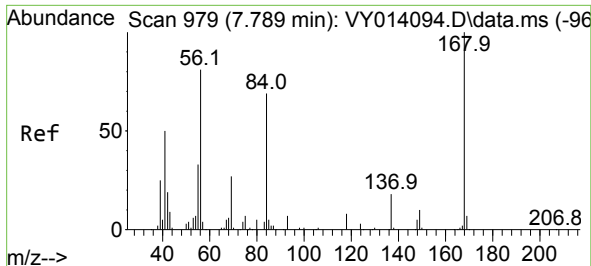
84 100

49 123.4 106.9 160.3

51 35.8 33.2 49.8

86 54.5 51.0 76.6

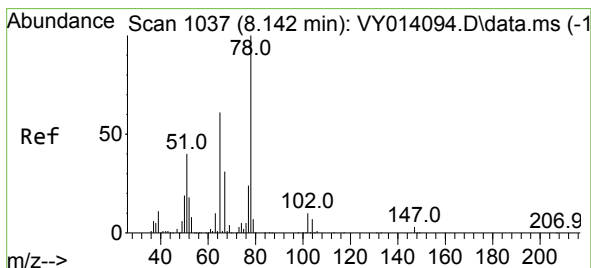
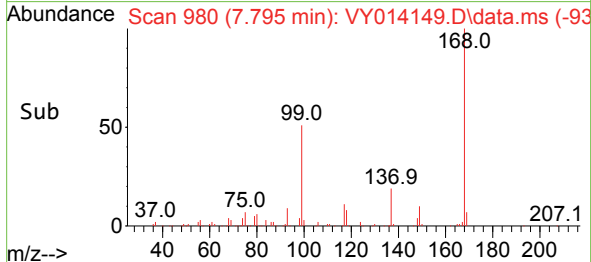
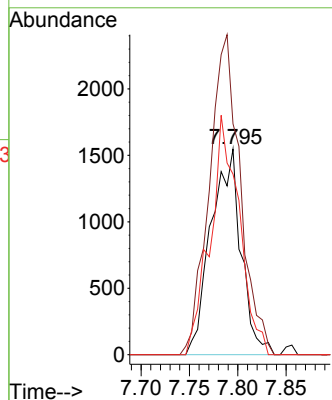
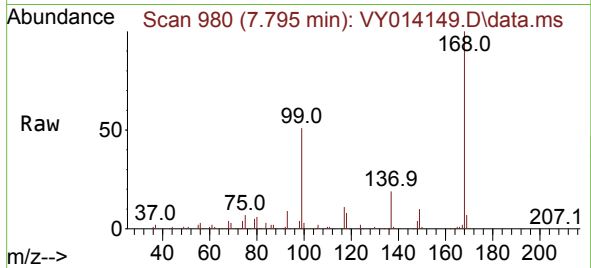




#31
Cyclohexane
Concen: 1.292 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY014149.D
Acq: 13 Jun 2023 19:00

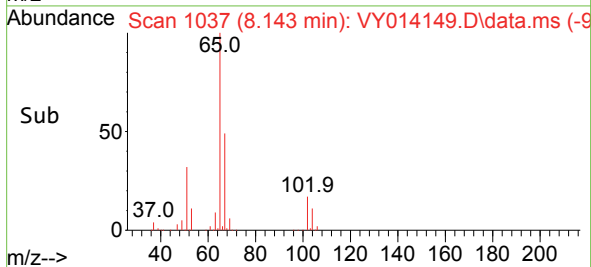
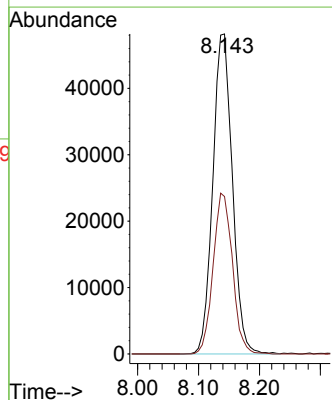
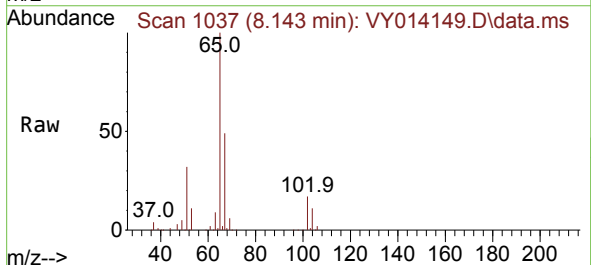
Instrument :
MSVOA_Y
ClientSampleId :
PNNL-B-0609-2

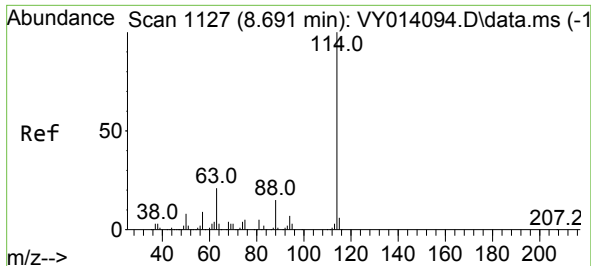
Tgt Ion: 56 Resp: 3345
Ion Ratio Lower Upper
56 100
69 112.3 27.8 41.6#
84 87.8 66.4 99.6



#33
1,2-Dichloroethane-d4
Concen: 55.637 ug/l
RT: 8.143 min Scan# 1037
Delta R.T. 0.001 min
Lab File: VY014149.D
Acq: 13 Jun 2023 19:00

Tgt Ion: 65 Resp: 107511
Ion Ratio Lower Upper
65 100
67 49.6 0.0 101.8

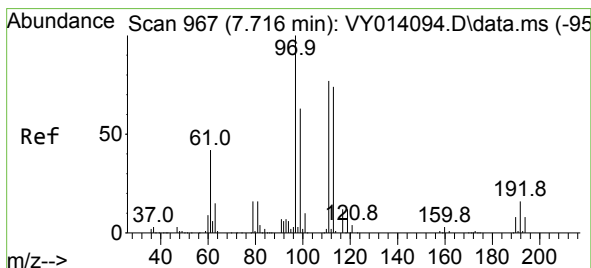
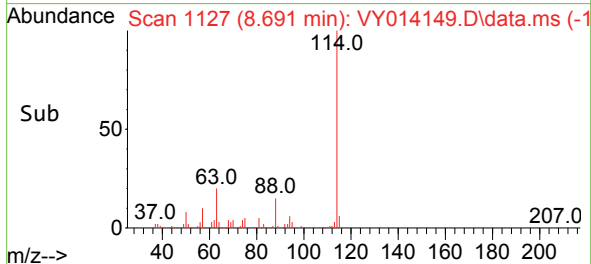
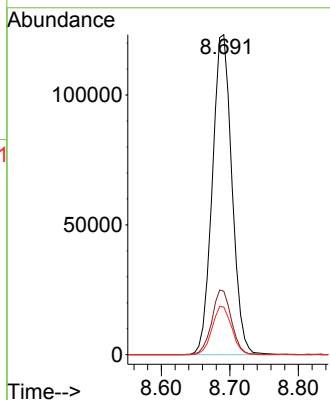
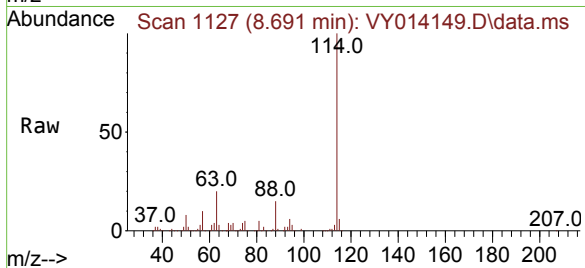




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.691 min Scan# 1127
 Delta R.T. 0.000 min
 Lab File: VY014149.D
 Acq: 13 Jun 2023 19:00

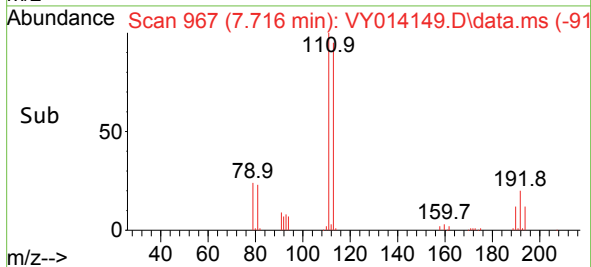
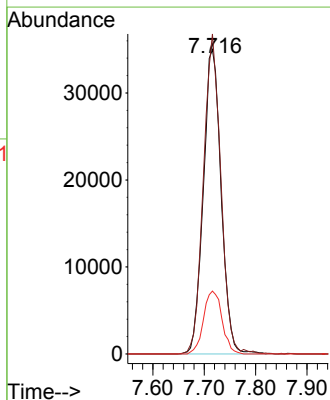
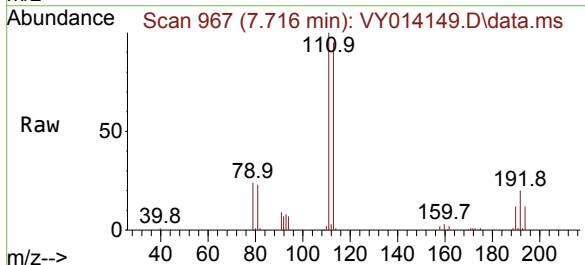
Instrument :
 MSVOA_Y
 ClientSampleId :
 PNNL-B-0609-2

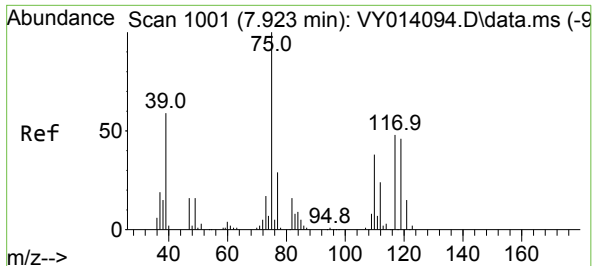
Tgt Ion:	114	Resp:	244401
Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	42.4
88	14.9	0.0	30.6



#35
 Dibromofluoromethane
 Concen: 48.719 ug/l
 RT: 7.716 min Scan# 967
 Delta R.T. -0.000 min
 Lab File: VY014149.D
 Acq: 13 Jun 2023 19:00

Tgt Ion:	113	Resp:	84441
Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.3	121.9
192	21.4	16.9	25.3





#36

1,1-Dichloropropene

Concen: 3.897 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY014149.D

Acq: 13 Jun 2023 19:00

Instrument :

MSVOA_Y

ClientSampleId :

PNNL-B-0609-2

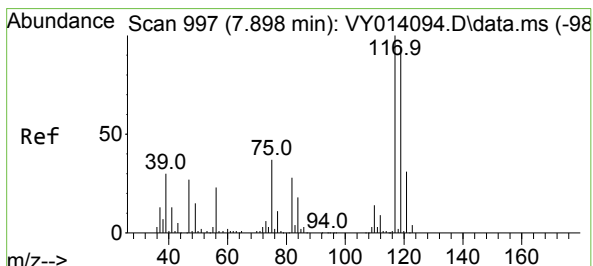
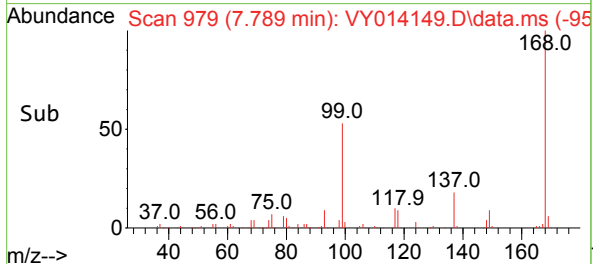
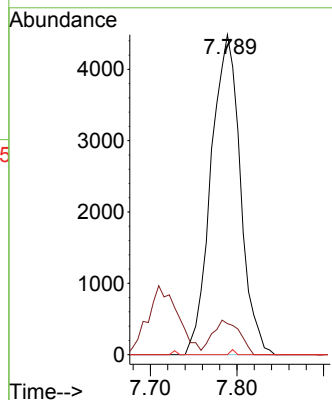
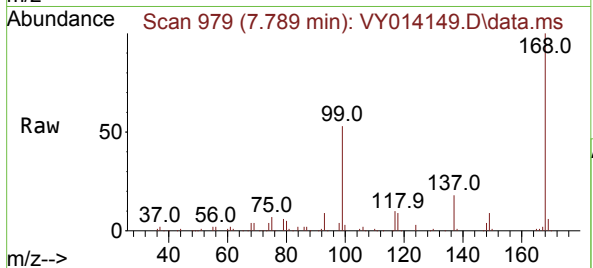
Tgt Ion: 75 Resp: 10531

Ion Ratio Lower Upper

75 100

110 9.8 17.8 53.5#

77 0.2 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.592 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.109 min

Lab File: VY014149.D

Acq: 13 Jun 2023 19:00

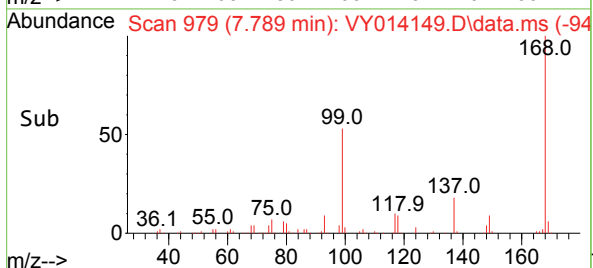
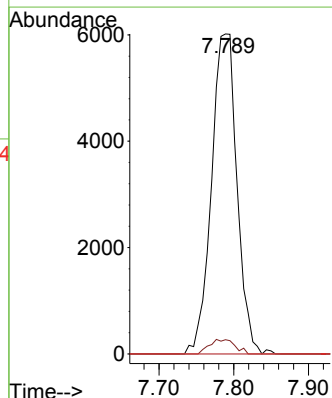
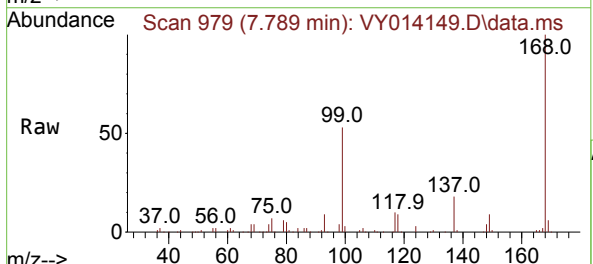
Tgt Ion: 117 Resp: 14318

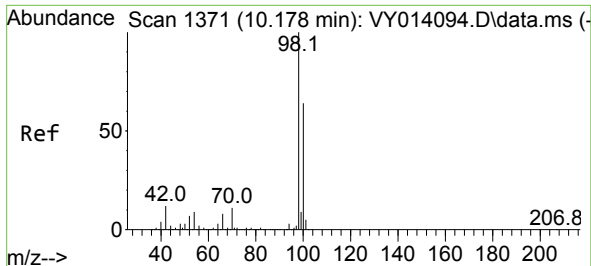
Ion Ratio Lower Upper

117 100

119 4.5 76.4 114.6#

121 0.0 25.8 38.6#

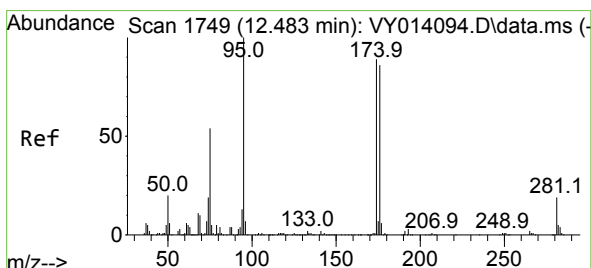
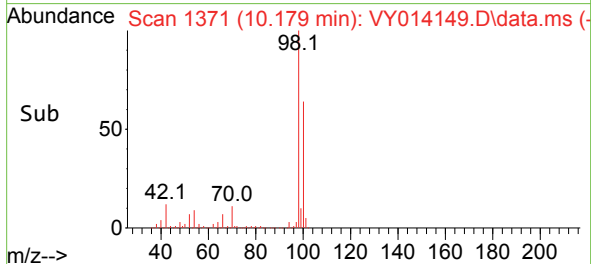
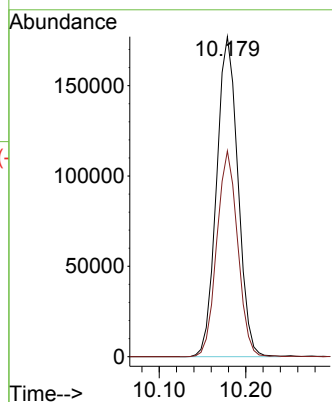
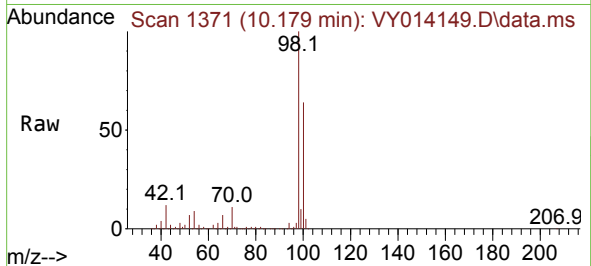




#50
Toluene-d8
Concen: 46.767 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.001 min
Lab File: VY014149.D
Acq: 13 Jun 2023 19:00

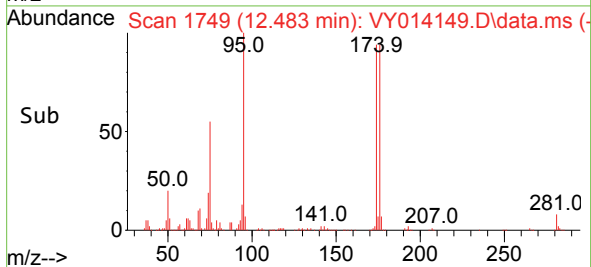
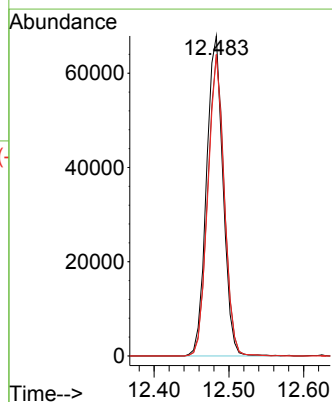
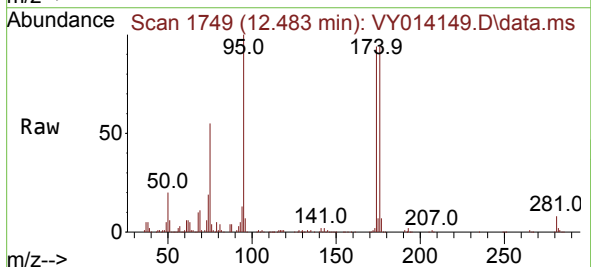
Instrument :
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PNNL-B-0609-2

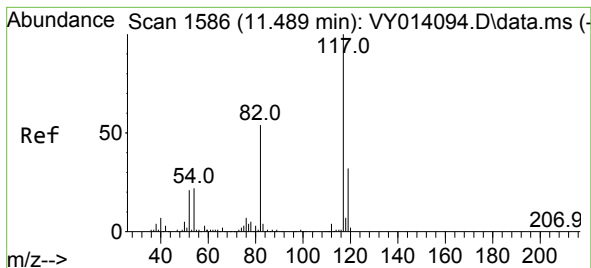
Tgt Ion: 98 Resp: 303041
Ion Ratio Lower Upper
98 100
100 62.9 50.1 75.1



#62
4-Bromofluorobenzene
Concen: 45.176 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY014149.D
Acq: 13 Jun 2023 19:00

Tgt Ion: 95 Resp: 103987
Ion Ratio Lower Upper
95 100
174 94.9 0.0 178.2
176 92.9 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY014149.D

Acq: 13 Jun 2023 19:00

Instrument :

MSVOA_Y

ClientSampleId :

PNNL-B-0609-2

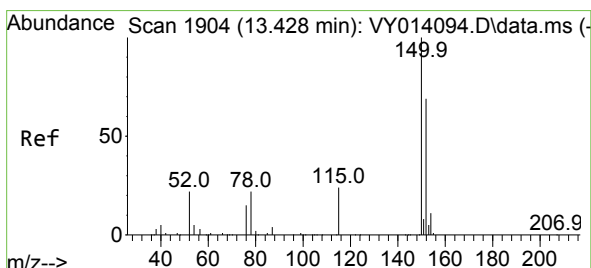
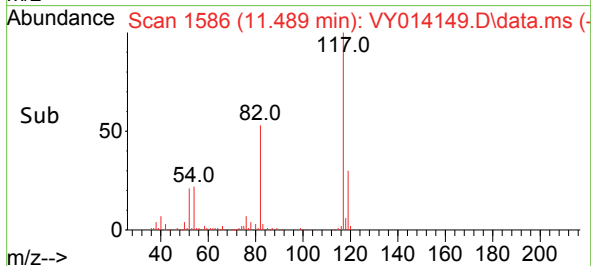
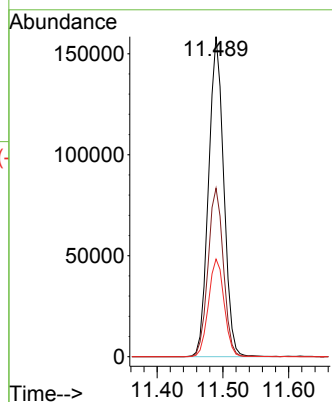
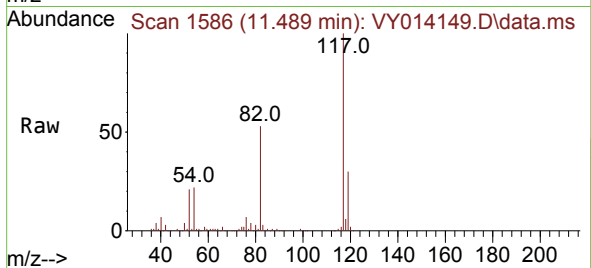
Tgt Ion:117 Resp: 254221

Ion Ratio Lower Upper

117 100

82 52.7 43.4 65.0

119 30.5 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VY014149.D

Acq: 13 Jun 2023 19:00

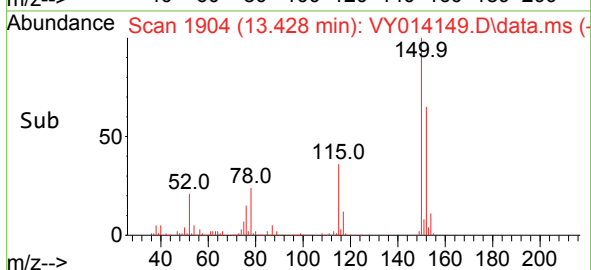
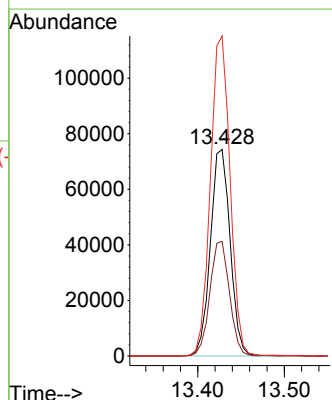
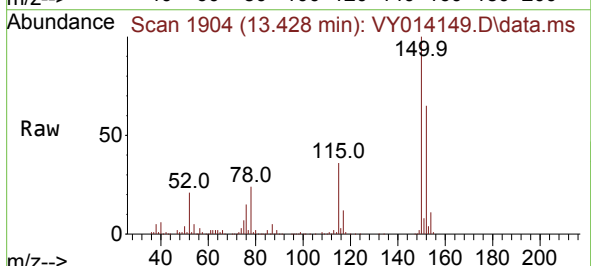
Tgt Ion:152 Resp: 117747

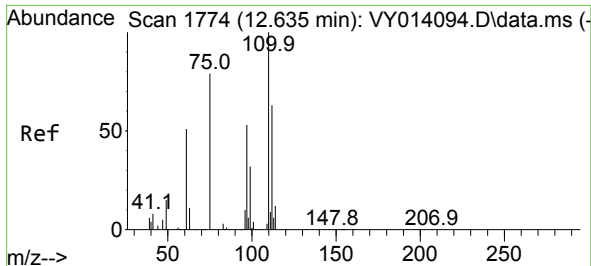
Ion Ratio Lower Upper

152 100

115 55.1 28.8 86.5

150 154.3 0.0 348.8

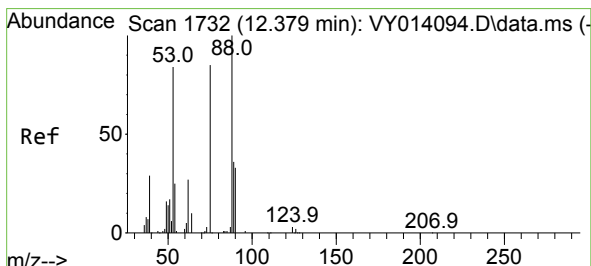
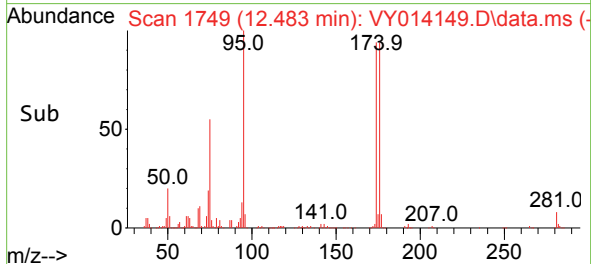
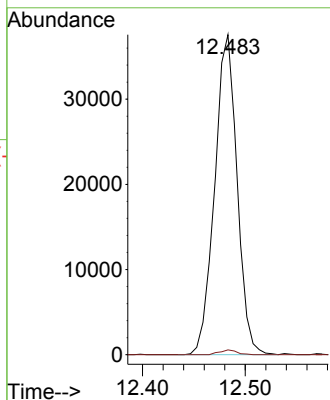
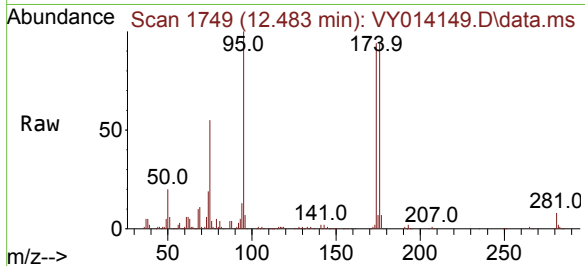




#76
1,2,3-Trichloropropane
Concen: 36.734 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.152 min
Lab File: VY014149.D
Acq: 13 Jun 2023 19:00

Instrument :
MSVOA_Y
ClientSampleId :
PNNL-B-0609-2

Tgt Ion: 75 Resp: 56747
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 79.404 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.104 min
Lab File: VY014149.D
Acq: 13 Jun 2023 19:00

Tgt Ion: 75 Resp: 56747
Ion Ratio Lower Upper
75 100
53 0.3 77.8 116.8#
89 0.1 37.4 56.0#

