

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112423\
 Data File : VX039024.D
 Acq On : 24 Nov 2023 15:09
 Operator : JC/MD
 Sample : VX1124WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 27 03:29:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

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

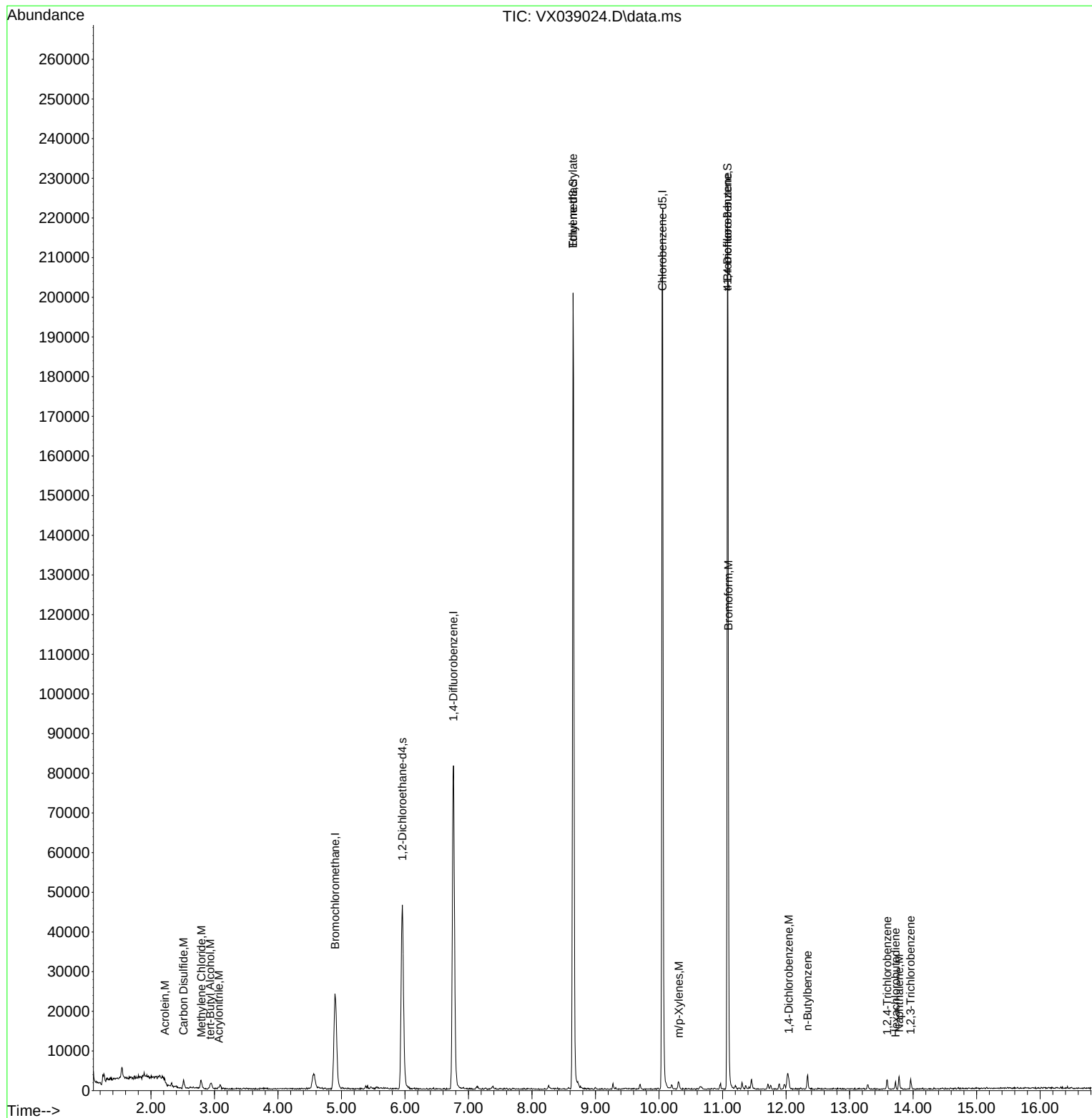
Internal Standards						
1) Bromochloromethane	4.897	128	9433	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	79671	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	97374	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	45052	34.911	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 116.367%#	
60) 4-Bromofluorobenzene	11.079	95	62214	29.252	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 97.500%	
63) Toluene-d8	8.647	98	118973	30.903	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 103.000%	
Target Compounds						
					Qvalue	
13) Acrolein	2.221	56	142	0.405	ug/l #	55
14) Acrylonitrile	3.069	53	430	0.439	ug/l #	70
16) Carbon Disulfide	2.514	76	2108	0.542	ug/l	98
18) Methylene Chloride	2.794	84	978	0.643	ug/l #	84
23) tert-Butyl Alcohol	2.934	59	471	0.869	ug/l #	100
51) Ethyl methacrylate	8.647	69	419	0.203	ug/l	86
56) Bromoform	11.092	173	306	0.240	ug/l #	1
67) m/p-Xylenes	10.311	106	608	0.209	ug/l	83
77) t-1,4-Dichloro-2-butene	11.079	75	33583	35.588	ug/l #	12
84) 1,4-Dichlorobenzene	12.043	146	790	0.234	ug/l	98
85) n-Butylbenzene	12.341	91	1315	0.201	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	735	0.351	ug/l	99
90) Hexachlorobutadiene	13.725	225	297	0.397	ug/l	83
91) Naphthalene	13.780	128	2323	0.301	ug/l	97
92) 1,2,3-Trichlorobenzene	13.963	180	578	0.285	ug/l	89

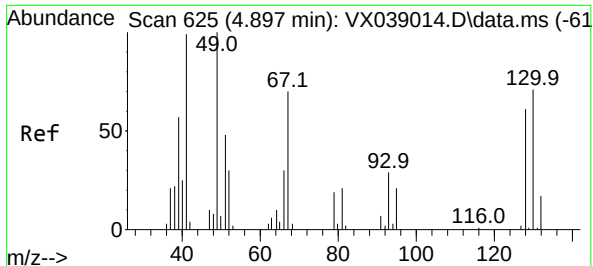
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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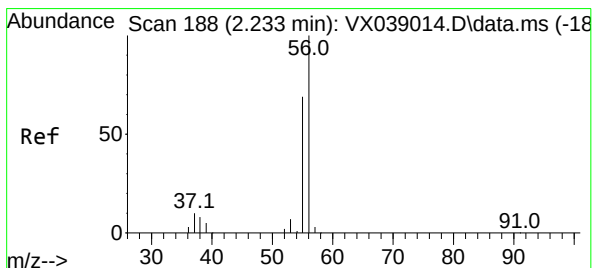
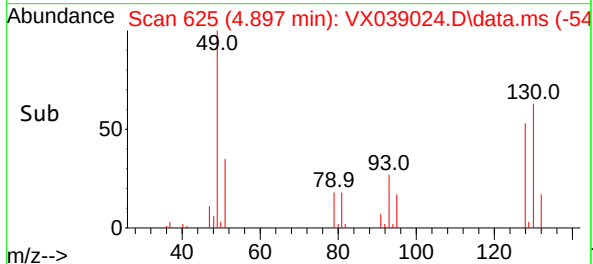
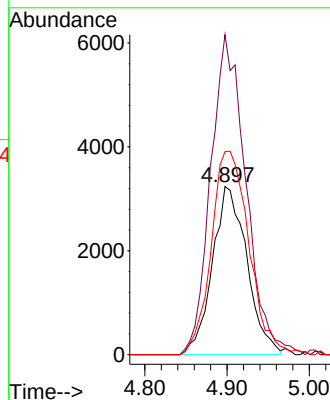
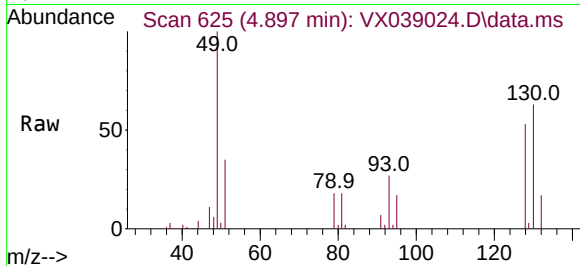




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX039024.D
Acq: 24 Nov 2023 15:09

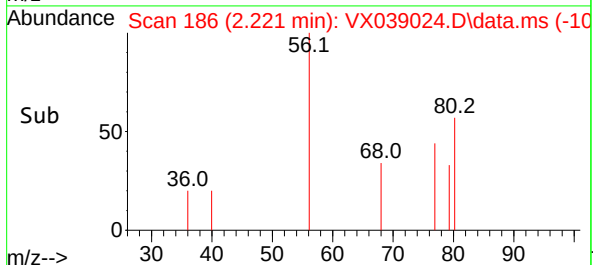
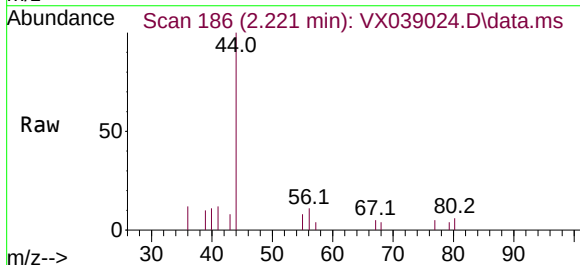
Instrument :
MSVOA_X
ClientSampleId :

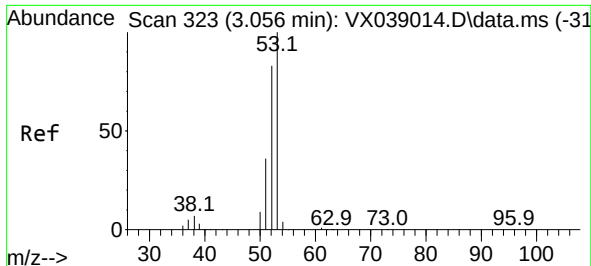
Tgt Ion:128 Resp: 9433
Ion Ratio Lower Upper
128 100
49 193.9 0.0 444.0
130 132.2 0.0 297.8



#13
Acrolein
Concen: 0.405 ug/l
RT: 2.221 min Scan# 186
Delta R.T. -0.012 min
Lab File: VX039024.D
Acq: 24 Nov 2023 15:09

Tgt Ion: 56 Resp: 142
Ion Ratio Lower Upper
56 100
55 109.2 57.2 85.8#





#14

Acrylonitrile

Concen: 0.439 ug/l

RT: 3.069 min Scan# 31

Delta R.T. 0.012 min

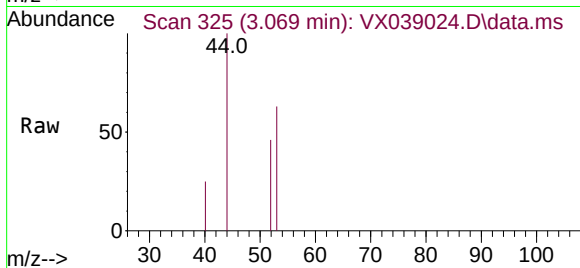
Lab File: VX039024.D

Acq: 24 Nov 2023 15:09

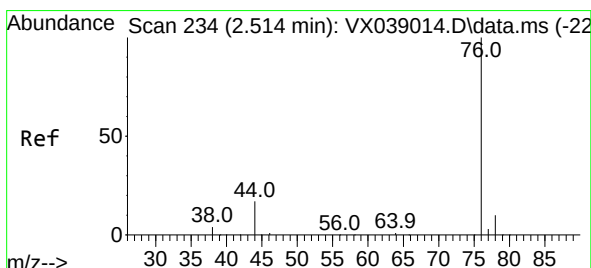
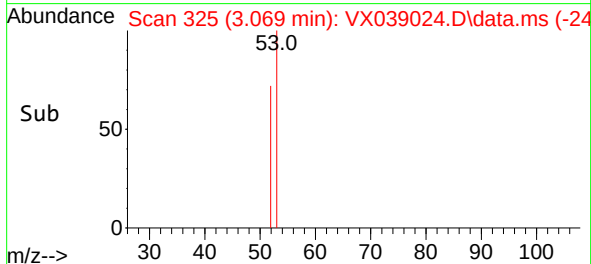
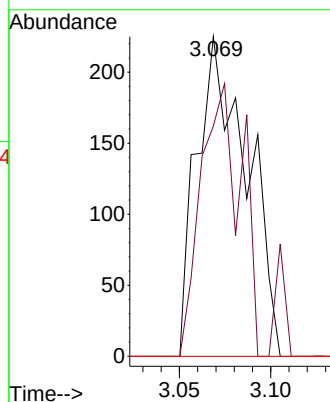
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 53	Resp: 430
Ion Ratio	Lower Upper
53	100
52	68.6 41.9 125.6
51	0.0 18.3 54.9#



#16

Carbon Disulfide

Concen: 0.542 ug/l

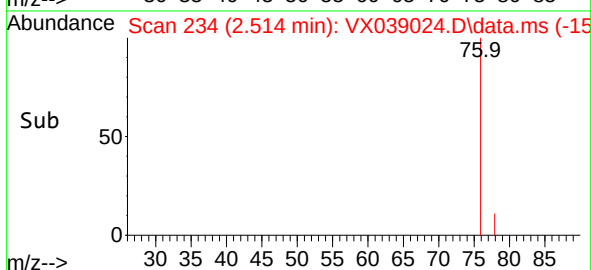
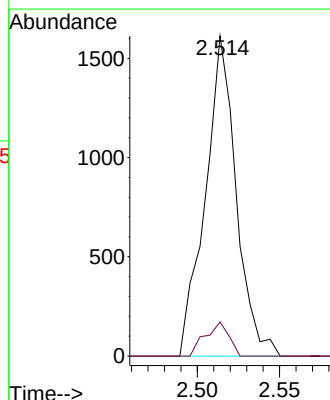
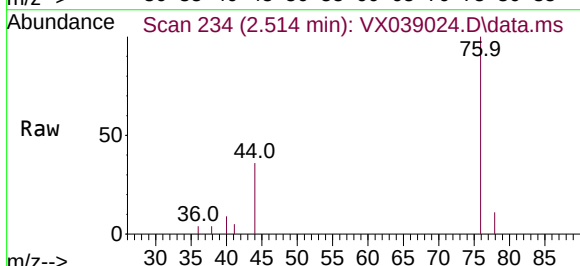
RT: 2.514 min Scan# 234

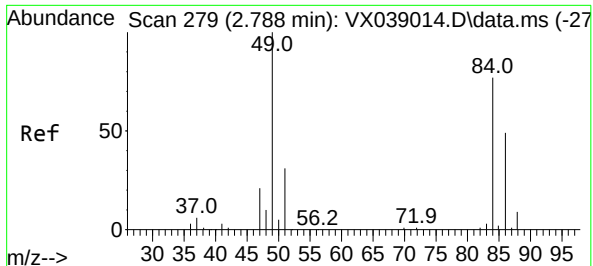
Delta R.T. 0.000 min

Lab File: VX039024.D

Acq: 24 Nov 2023 15:09

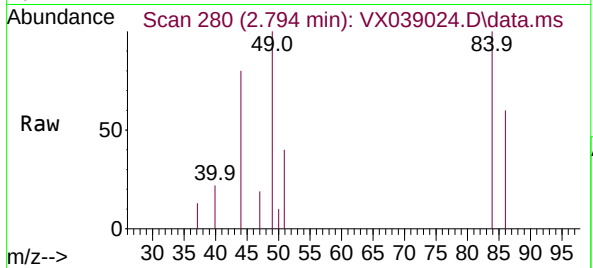
Tgt Ion: 76	Resp: 2108
Ion Ratio	Lower Upper
76	100
78	10.6 8.0 12.0





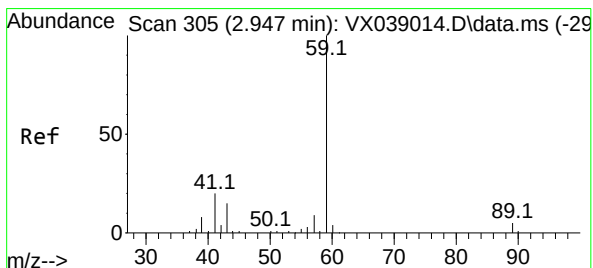
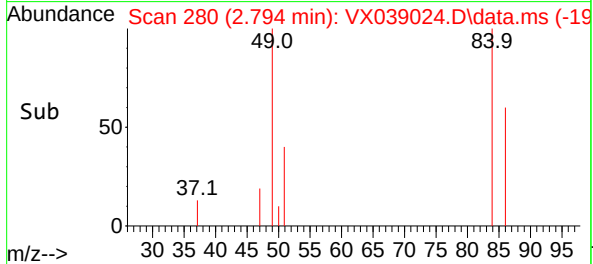
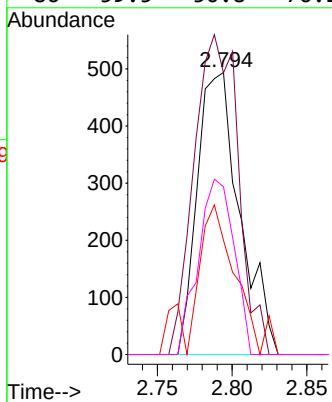
#18
Methylene Chloride
Concen: 0.643 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX039024.D
Acq: 24 Nov 2023 15:09

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion: 84 Resp: 978

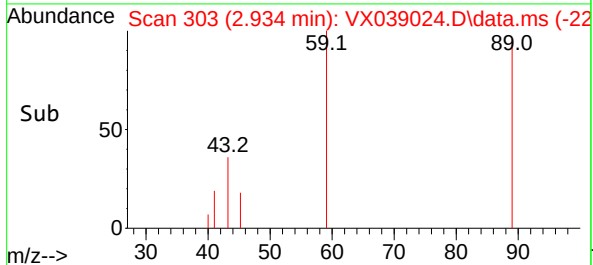
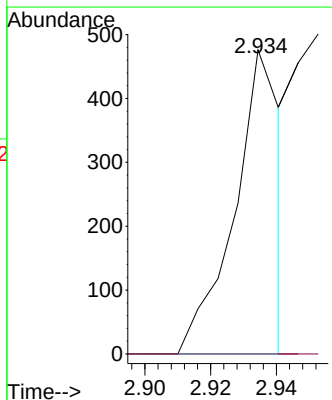
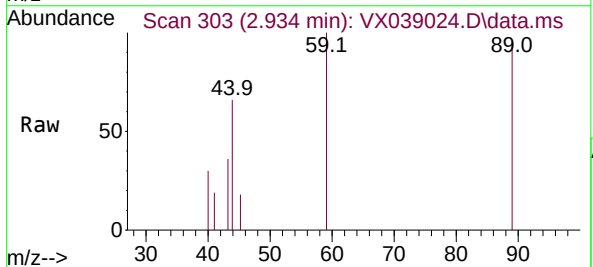
Ion	Ratio	Lower	Upper
84	100		
49	99.8	103.8	155.8#
51	40.5	31.8	47.6
86	59.5	50.8	76.2

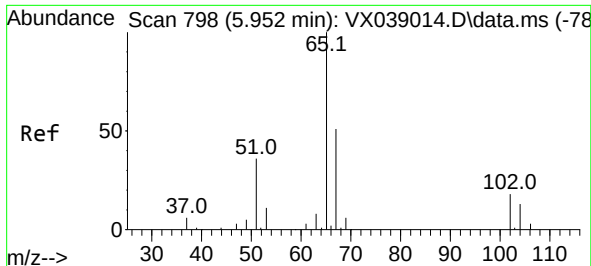


#23
tert-Butyl Alcohol
Concen: 0.869 ug/l
RT: 2.934 min Scan# 303
Delta R.T. -0.012 min
Lab File: VX039024.D
Acq: 24 Nov 2023 15:09

Tgt Ion: 59 Resp: 471

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#27

1,2-Dichloroethane-d4

Concen: 34.911 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX039024.D

Acq: 24 Nov 2023 15:09

Instrument :

MSVOA_X

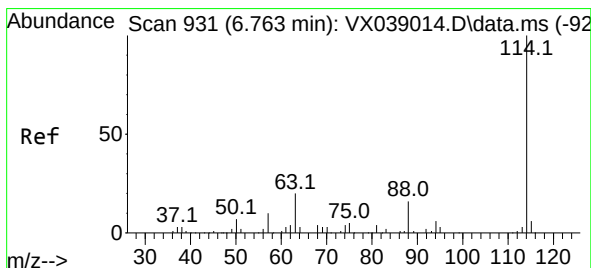
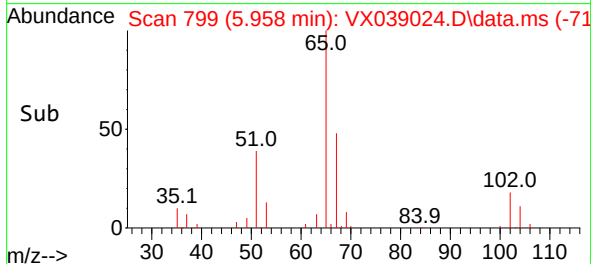
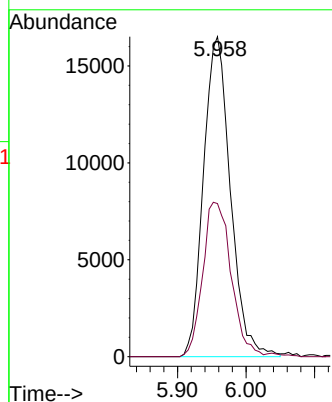
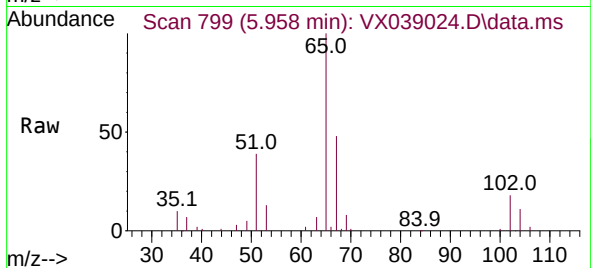
ClientSampleId :

Tgt Ion: 65 Resp: 45052

Ion Ratio Lower Upper

65 100

67 50.8 42.5 63.7



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX039024.D

Acq: 24 Nov 2023 15:09

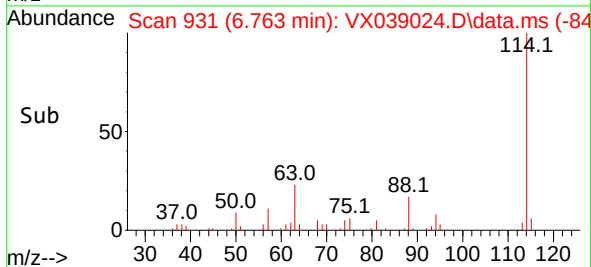
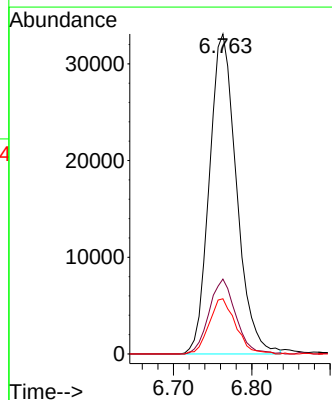
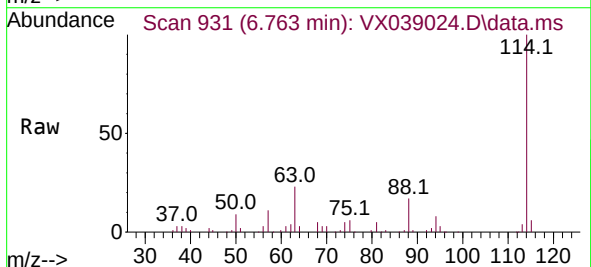
Tgt Ion: 114 Resp: 79671

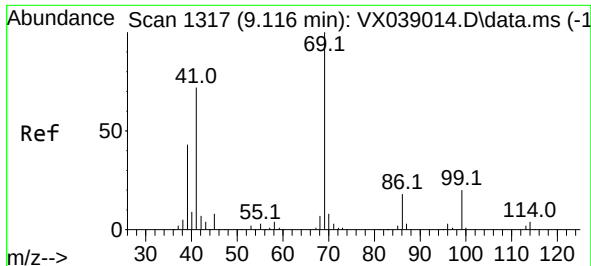
Ion Ratio Lower Upper

114 100

63 23.0 17.0 25.4

88 16.9 12.7 19.1

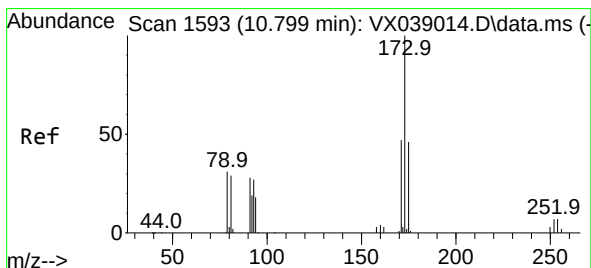
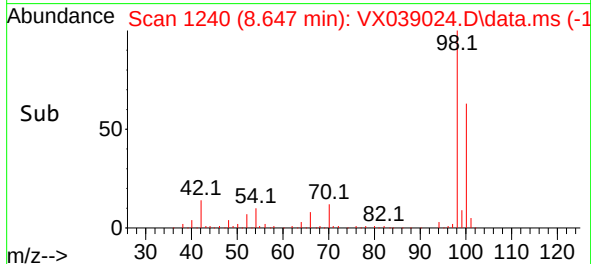
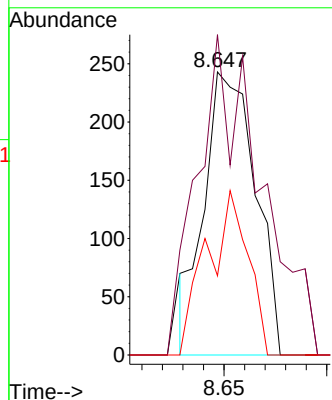
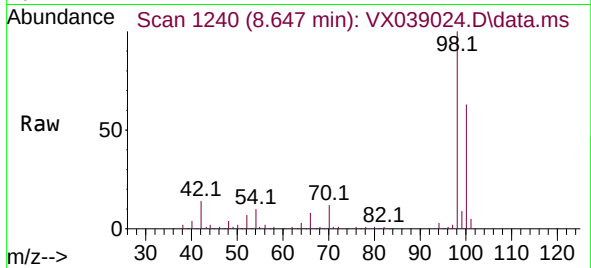




#51
Ethyl methacrylate
Concen: 0.203 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.469 min
Lab File: VX039024.D
Acq: 24 Nov 2023 15:09

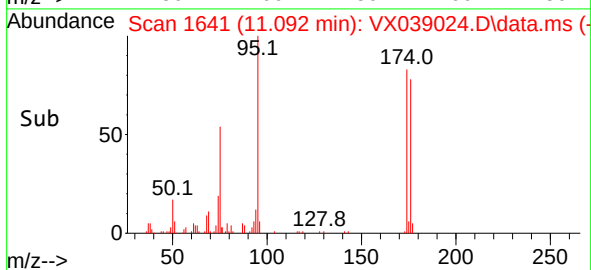
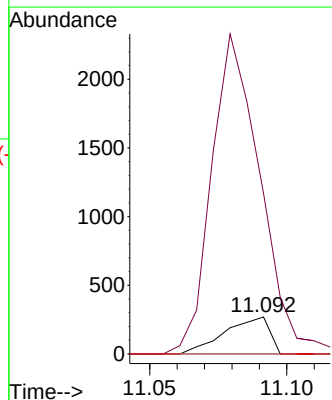
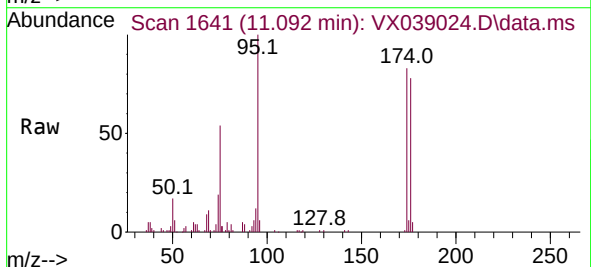
Instrument :
MSVOA_X
ClientSampleId :

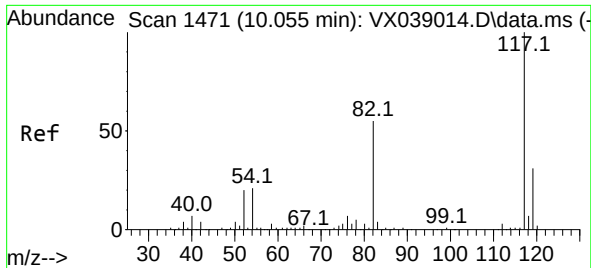
Tgt Ion: 69 Resp: 419
Ion Ratio Lower Upper
69 100
41 80.2 36.2 108.6
39 28.0 21.1 63.4



#56
Bromoform
Concen: 0.240 ug/l
RT: 11.092 min Scan# 1641
Delta R.T. 0.293 min
Lab File: VX039024.D
Acq: 24 Nov 2023 15:09

Tgt Ion: 173 Resp: 306
Ion Ratio Lower Upper
173 100
175 941.8 37.6 56.4#
254 0.0 5.8 8.8#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX039024.D

Acq: 24 Nov 2023 15:09

Instrument :

MSVOA_X

ClientSampleId :

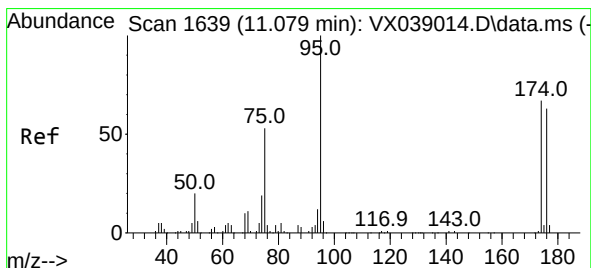
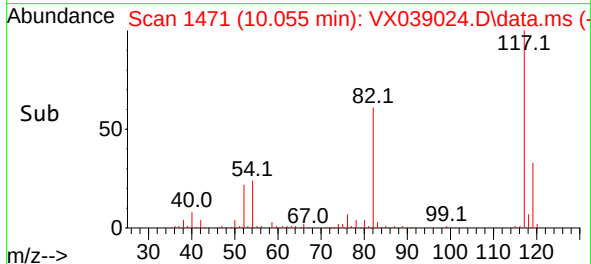
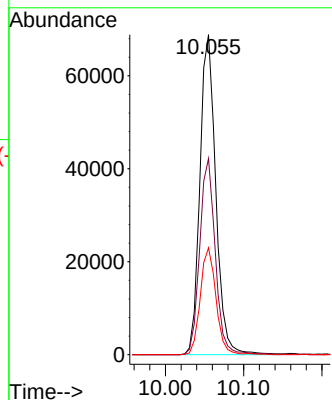
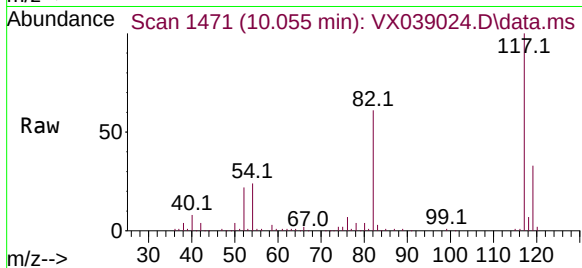
Tgt Ion:117 Resp: 97374

Ion Ratio Lower Upper

117 100

82 59.8 47.0 70.6

119 32.4 25.2 37.8



#60

4-Bromofluorobenzene

Concen: 29.252 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX039024.D

Acq: 24 Nov 2023 15:09

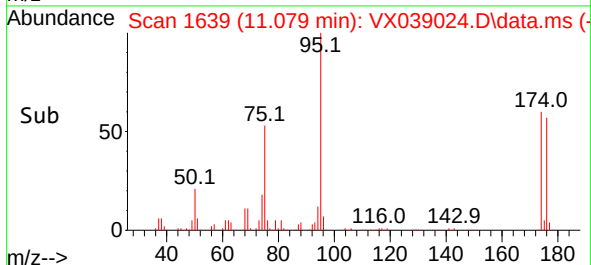
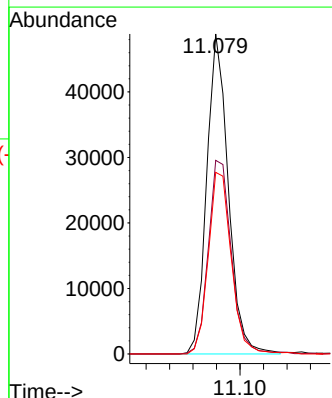
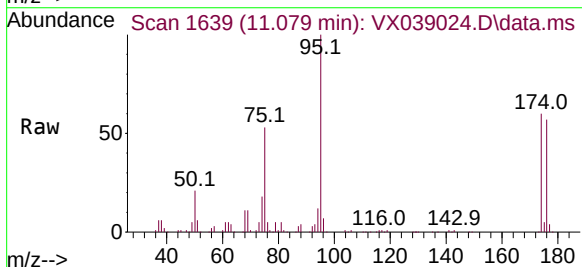
Tgt Ion: 95 Resp: 62214

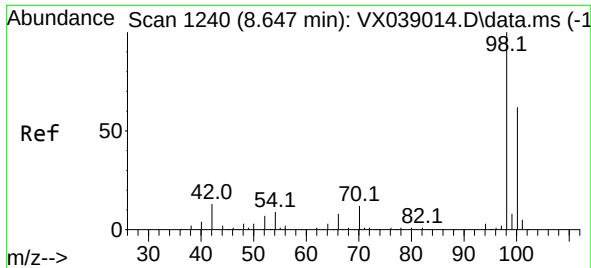
Ion Ratio Lower Upper

95 100

174 64.5 55.4 83.2

176 60.5 52.6 78.8

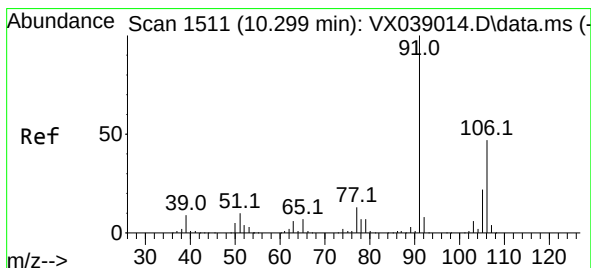
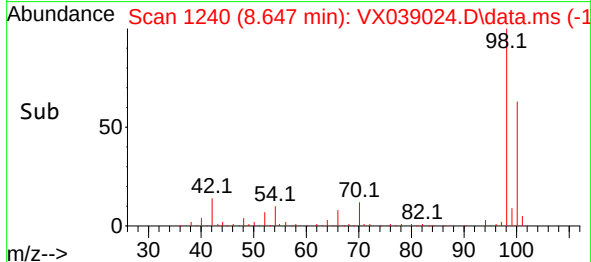
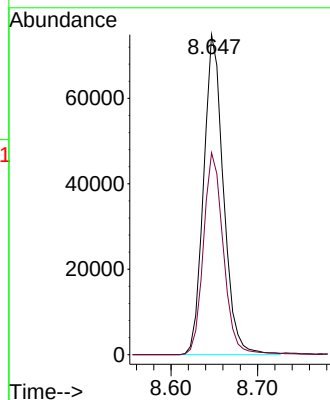
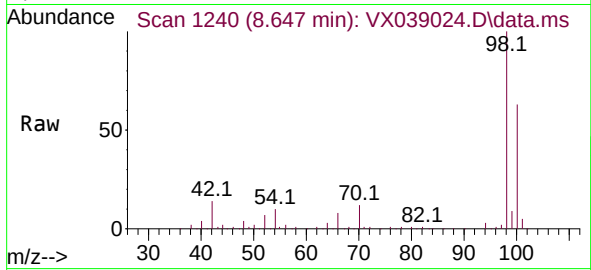




#63
Toluene-d8
Concen: 30.903 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX039024.D
Acq: 24 Nov 2023 15:09

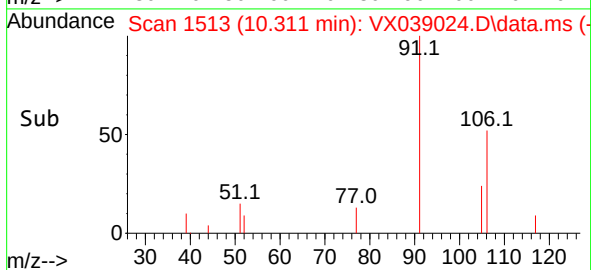
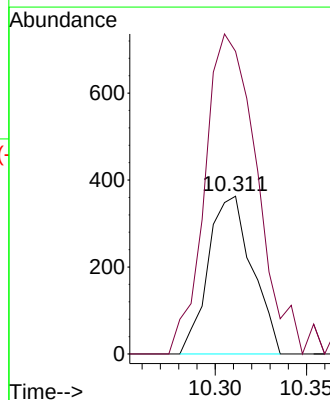
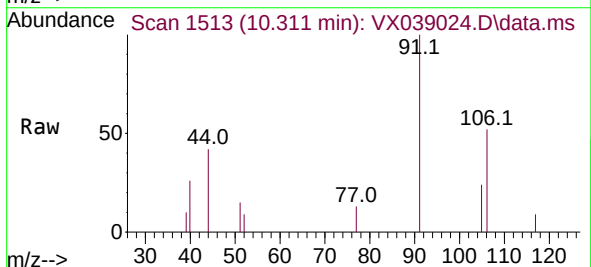
Instrument :
MSVOA_X
ClientSampleId :

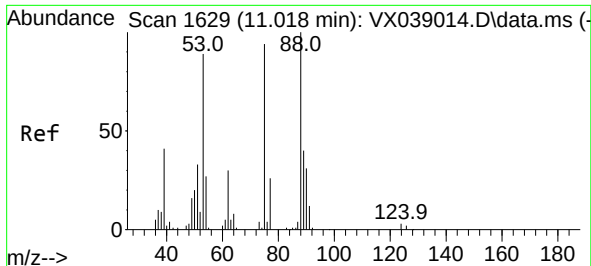
Tgt Ion: 98 Resp: 118973
Ion Ratio Lower Upper
98 100
100 63.8 51.0 76.4



#67
m/p-Xylenes
Concen: 0.209 ug/l
RT: 10.311 min Scan# 1513
Delta R.T. 0.012 min
Lab File: VX039024.D
Acq: 24 Nov 2023 15:09

Tgt Ion:106 Resp: 608
Ion Ratio Lower Upper
106 100
91 239.1 169.4 254.0





#77

t-1,4-Dichloro-2-butene

Concen: 35.588 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.061 min

Lab File: VX039024.D

Acq: 24 Nov 2023 15:09

Instrument :

MSVOA_X

ClientSampleId :

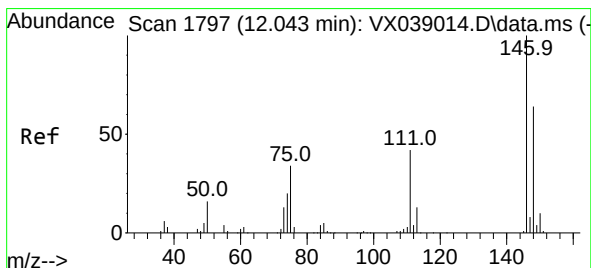
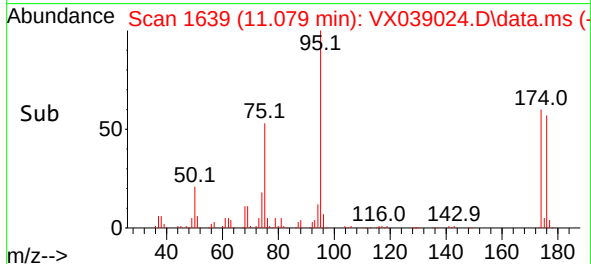
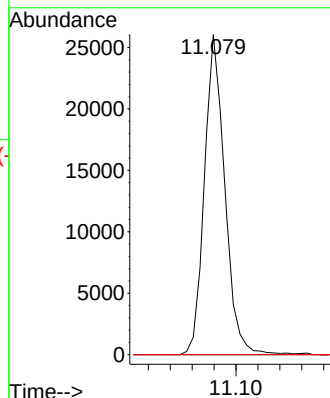
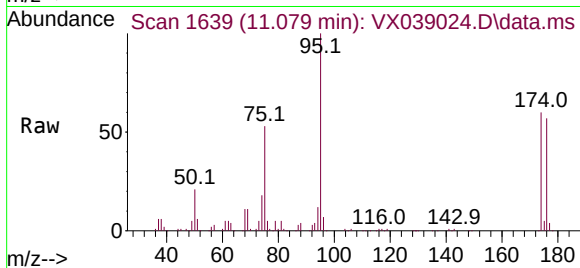
Tgt Ion: 75 Resp: 33583

Ion Ratio Lower Upper

75 100

53 0.0 46.9 140.8#

89 0.0 21.3 63.7#



#84

1,4-Dichlorobenzene

Concen: 0.234 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX039024.D

Acq: 24 Nov 2023 15:09

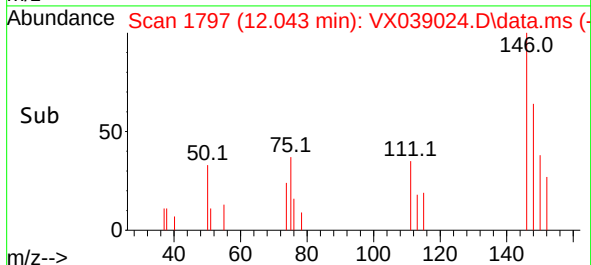
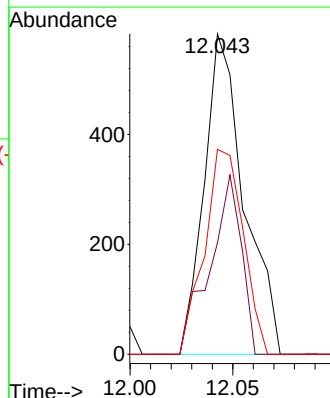
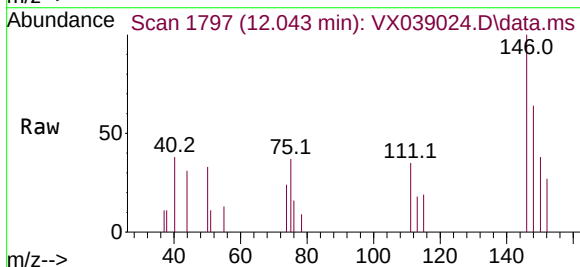
Tgt Ion:146 Resp: 790

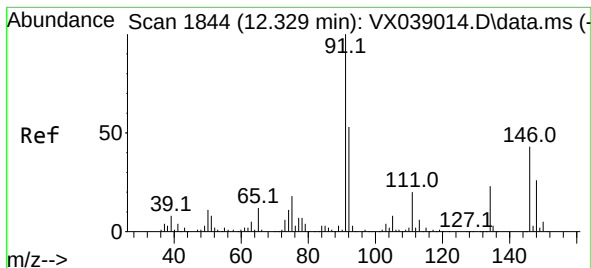
Ion Ratio Lower Upper

146 100

111 43.8 21.4 64.2

148 62.2 31.8 95.4





#85

n-Butylbenzene

Concen: 0.201 ug/l

RT: 12.341 min Scan# 1846

Delta R.T. 0.012 min

Lab File: VX039024.D

Acq: 24 Nov 2023 15:09

Instrument :

MSVOA_X

ClientSampleId :

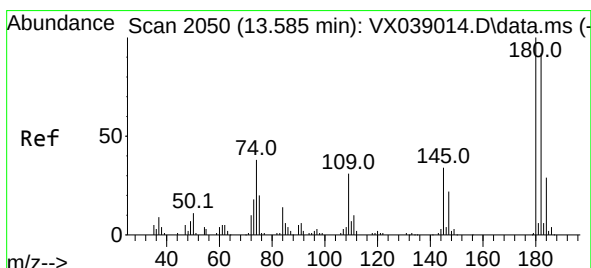
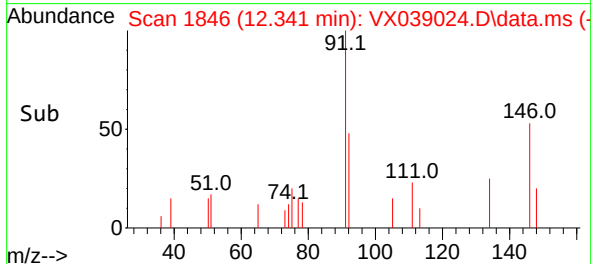
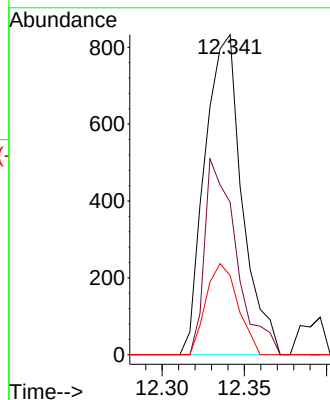
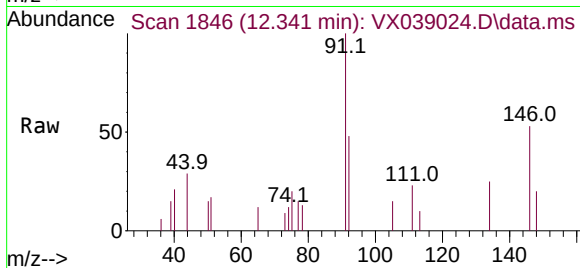
Tgt Ion: 91 Resp: 1315

Ion Ratio Lower Upper

91 100

92 50.1 0.0 106.2

134 24.3 0.0 48.8



#89

1,2,4-Trichlorobenzene

Concen: 0.351 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX039024.D

Acq: 24 Nov 2023 15:09

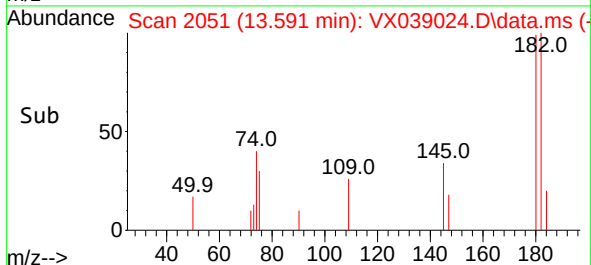
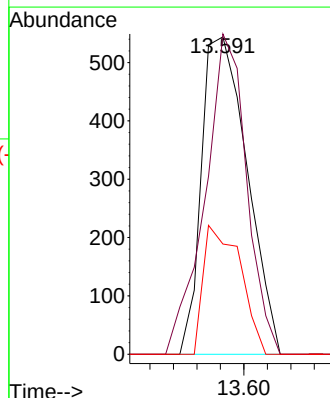
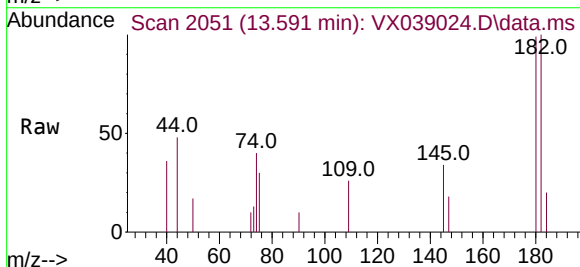
Tgt Ion: 180 Resp: 735

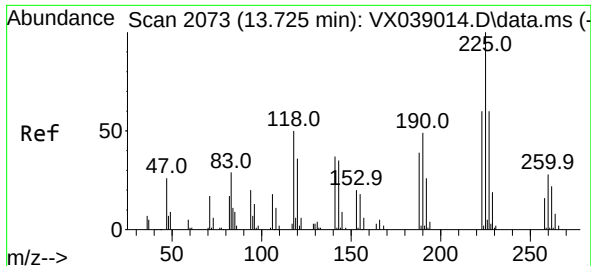
Ion Ratio Lower Upper

180 100

182 91.7 74.5 111.7

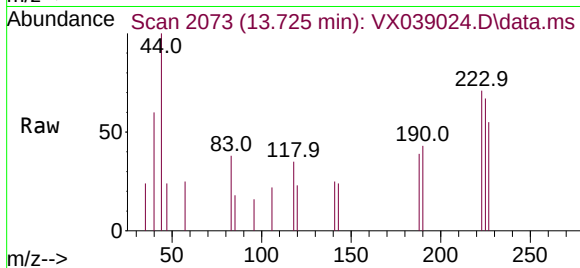
145 32.9 26.6 40.0



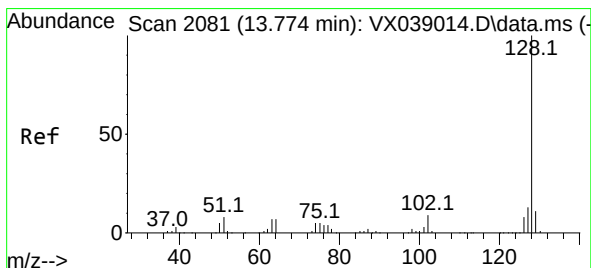
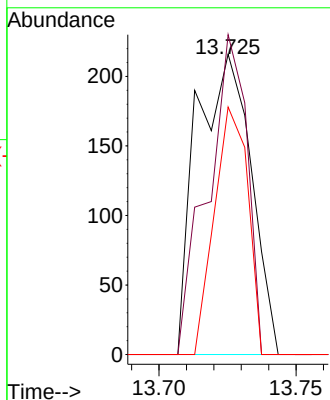
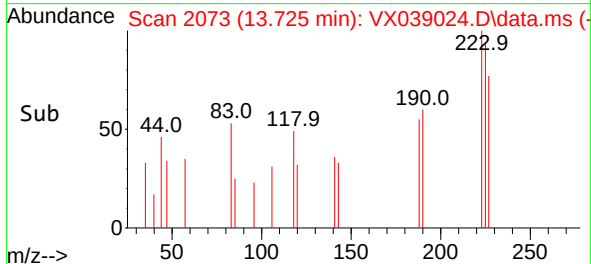


#90
Hexachlorobutadiene
Concen: 0.397 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX039024.D
Acq: 24 Nov 2023 15:09

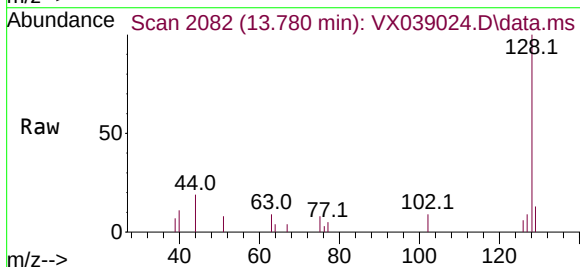
Instrument :
MSVOA_X
ClientSampleId :



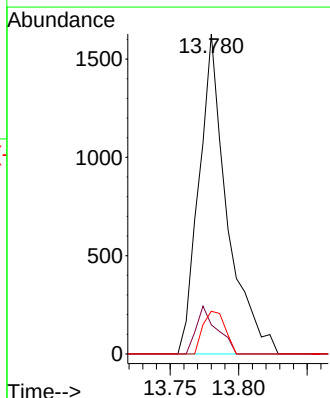
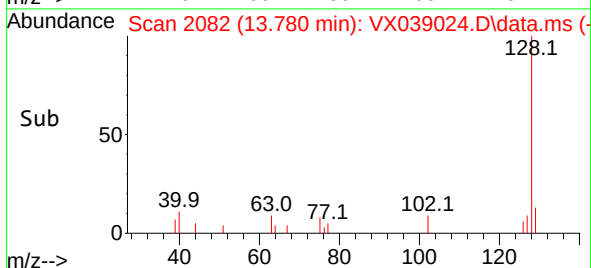
Tgt Ion:	225	Resp:	297
Ion Ratio	Lower	Upper	
225	100		
223	77.1	0.0	124.4
227	50.8	0.0	124.4

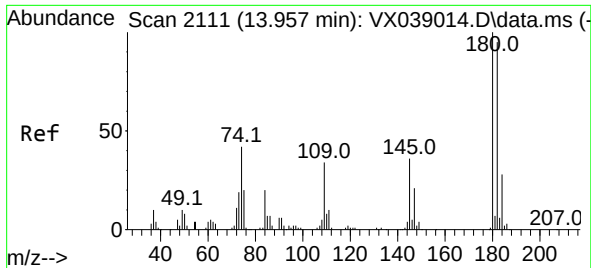


#91
Naphthalene
Concen: 0.301 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX039024.D
Acq: 24 Nov 2023 15:09



Tgt Ion:	128	Resp:	2323
Ion Ratio	Lower	Upper	
128	100		
127	11.0	10.2	15.2
129	10.5	8.6	12.8





#92

1,2,3-Trichlorobenzene

Concen: 0.285 ug/l

RT: 13.963 min Scan# 21

Delta R.T. 0.006 min

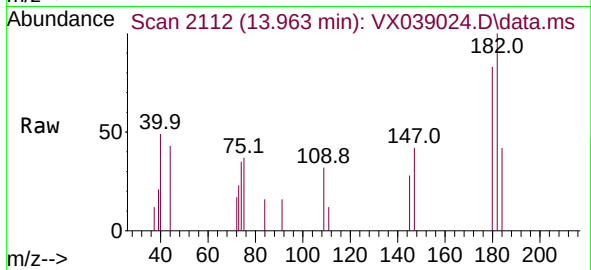
Lab File: VX039024.D

Acq: 24 Nov 2023 15:09

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:180 Resp: 578

Ion Ratio Lower Upper

180 100

182 109.3 0.0 191.6

145 36.0 0.0 69.6

