

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120823\
 Data File : VX039097.D
 Acq On : 08 Dec 2023 11:38
 Operator : JC/MD
 Sample : VX1208WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1208WBL01

Quant Time: Dec 08 23:46:22 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)

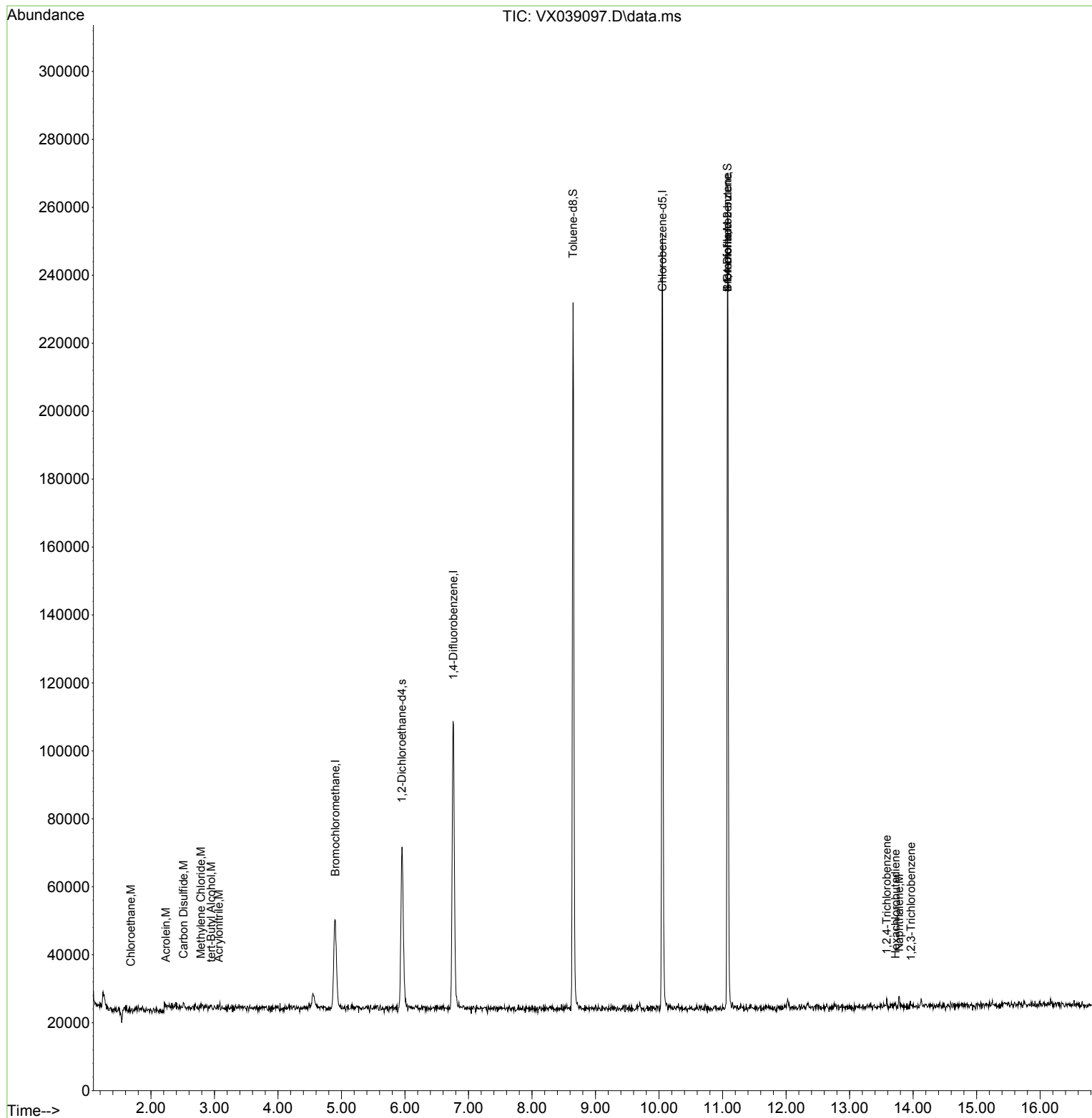
Internal Standards						
1) Bromochloromethane	4.903	128	10598	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	88350	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	105553	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	45196	31.172	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.900%
60) 4-Bromofluorobenzene	11.079	95	67831	29.422	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.067%
63) Toluene-d8	8.647	98	125432	30.057	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.200%
Target Compounds						
					Qvalue	
6) Chloroethane	1.685	64	297	0.278	ug/l #	43
13) Acrolein	2.233	56	178	0.452	ug/l #	66
14) Acrylonitrile	3.068	53	391	0.356	ug/l #	64
16) Carbon Disulfide	2.514	76	1320	0.302	ug/l	96
18) Methylene Chloride	2.788	84	495	0.290	ug/l #	68
23) tert-Butyl Alcohol	2.946	59	767	1.260	ug/l #	100
56) Bromoform	11.079	173	321	0.227	ug/l #	1
77) t-1,4-Dichloro-2-butene	11.079	75	35854	35.051	ug/l #	12
89) 1,2,4-Trichlorobenzene	13.585	180	542	0.239	ug/l	95
90) Hexachlorobutadiene	13.725	225	253	0.312	ug/l	71
91) Naphthalene	13.780	128	2037	0.243	ug/l #	93
92) 1,2,3-Trichlorobenzene	13.969	180	480	0.218	ug/l	90

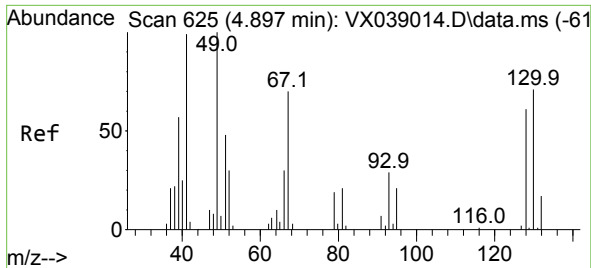
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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VX1208WBL01

Quant Time: Dec 08 23:46:22 2023
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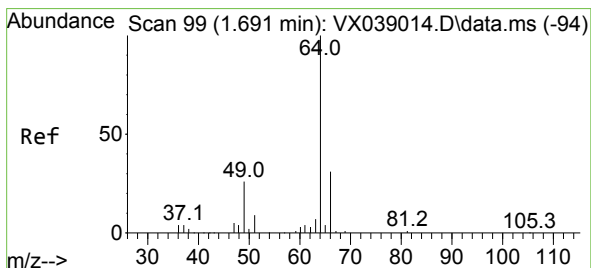
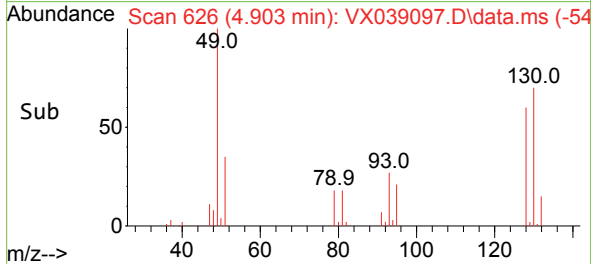
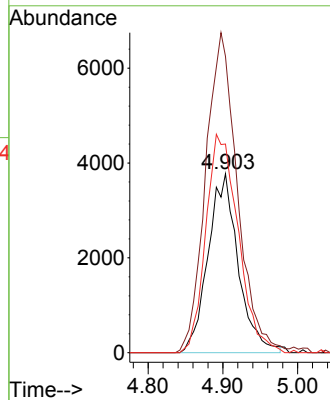
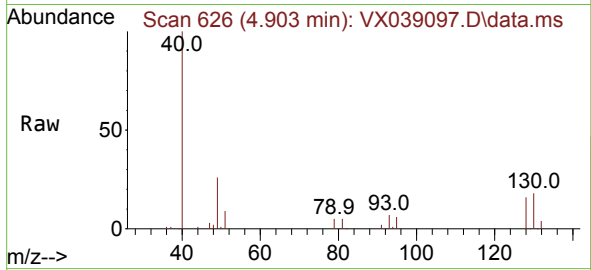




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.903 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX039097.D
Acq: 08 Dec 2023 11:38

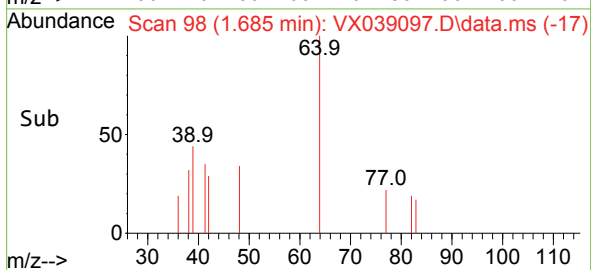
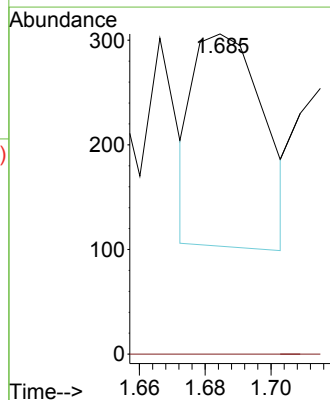
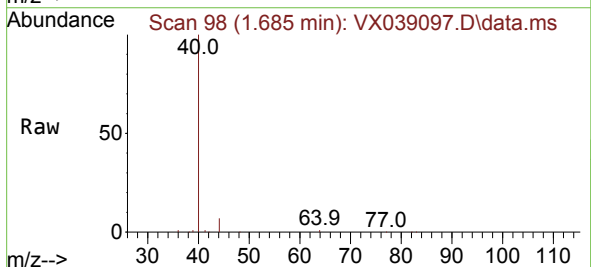
Instrument :
MSVOA_X
ClientSampleId :
VX1208WBL01

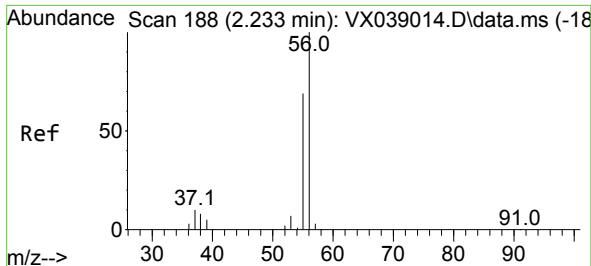
Tgt Ion:128 Resp: 10598
Ion Ratio Lower Upper
128 100
49 188.2 0.0 444.0
130 131.2 0.0 297.8



#6
Chloroethane
Concen: 0.278 ug/l
RT: 1.685 min Scan# 98
Delta R.T. -0.006 min
Lab File: VX039097.D
Acq: 08 Dec 2023 11:38

Tgt Ion: 64 Resp: 297
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.6#





#13

Acrolein

Concen: 0.452 ug/l

RT: 2.233 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX039097.D

Acq: 08 Dec 2023 11:38

Instrument :

MSVOA_X

ClientSampleId :

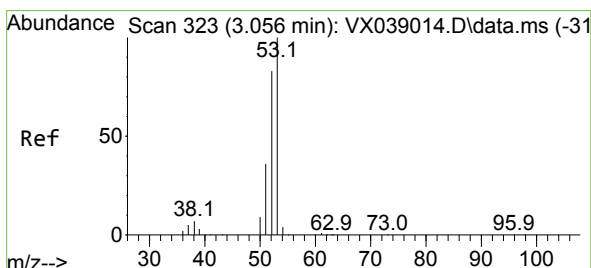
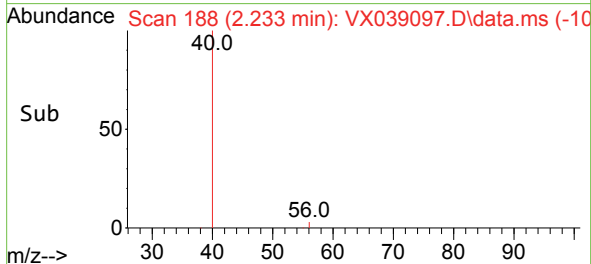
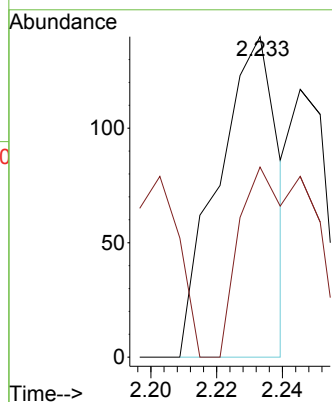
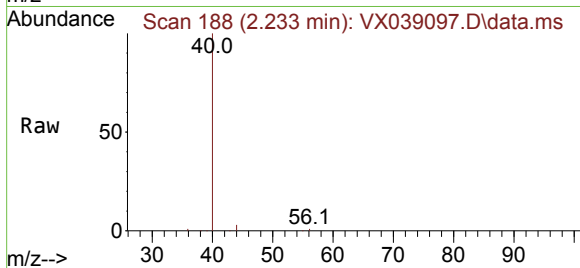
VX1208WBL01

Tgt Ion: 56 Resp: 178

Ion Ratio Lower Upper

56 100

55 43.3 57.2 85.8#



#14

Acrylonitrile

Concen: 0.356 ug/l

RT: 3.068 min Scan# 325

Delta R.T. 0.012 min

Lab File: VX039097.D

Acq: 08 Dec 2023 11:38

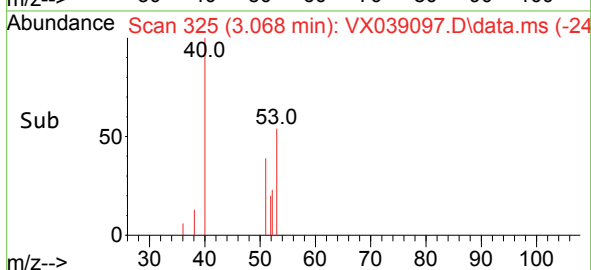
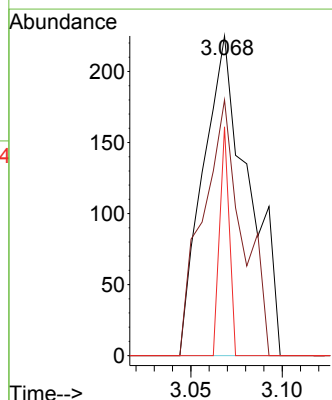
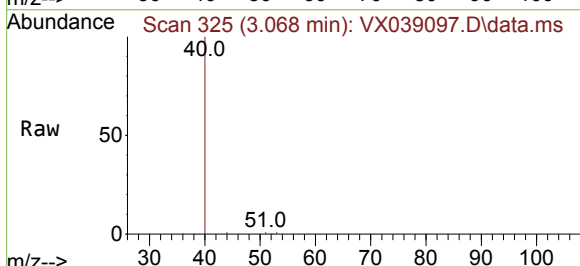
Tgt Ion: 53 Resp: 391

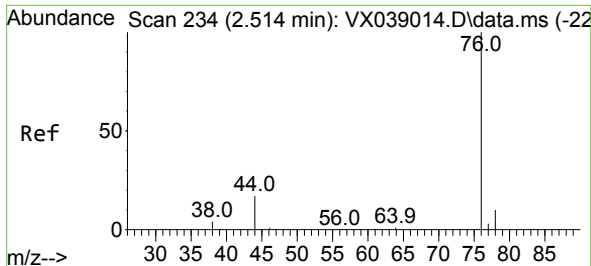
Ion Ratio Lower Upper

53 100

52 61.1 41.9 125.6

51 0.0 18.3 54.9#

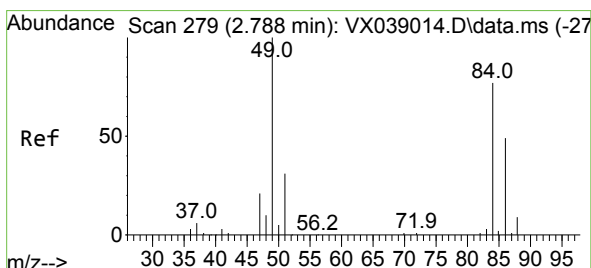
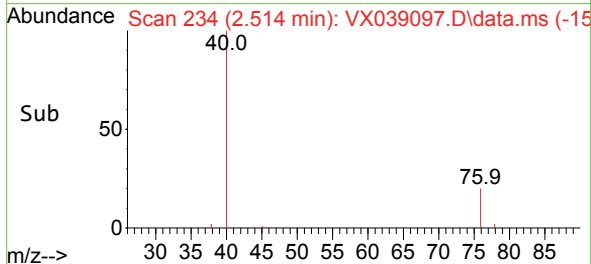
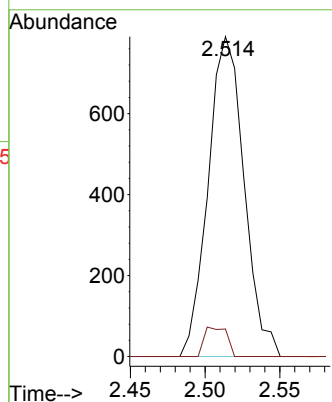
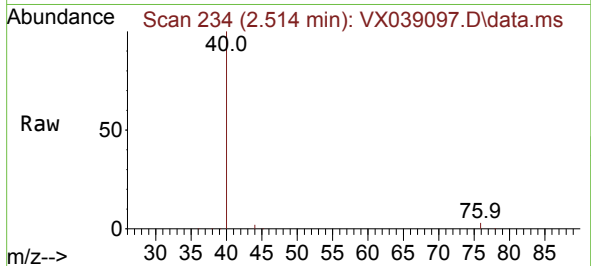




#16
Carbon Disulfide
Concen: 0.302 ug/l
RT: 2.514 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX039097.D
Acq: 08 Dec 2023 11:38

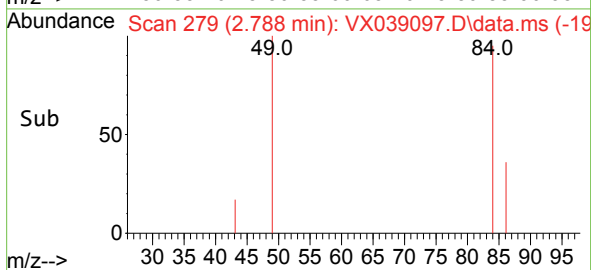
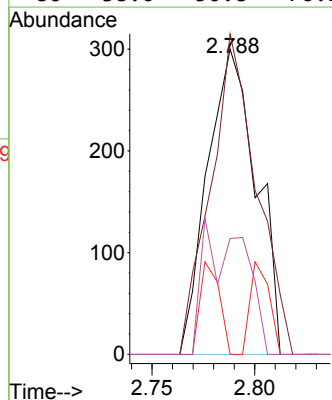
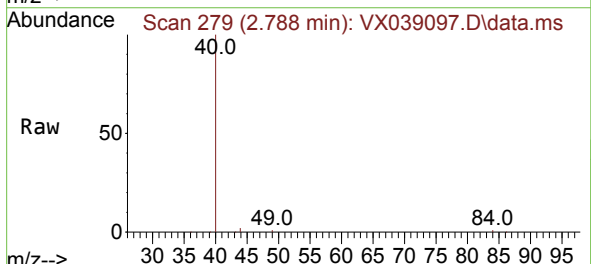
Instrument :
MSVOA_X
ClientSampleId :
VX1208WBL01

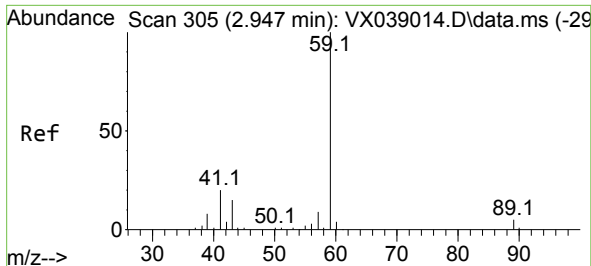
Tgt Ion: 76 Resp: 1320
Ion Ratio Lower Upper
76 100
78 8.6 8.0 12.0



#18
Methylene Chloride
Concen: 0.290 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX039097.D
Acq: 08 Dec 2023 11:38

Tgt Ion: 84 Resp: 495
Ion Ratio Lower Upper
84 100
49 105.0 103.8 155.8
51 0.0 31.8 47.6#
86 38.0 50.8 76.2#

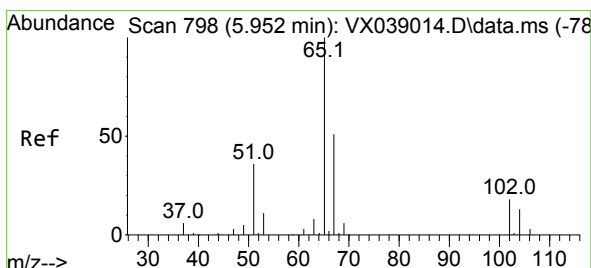
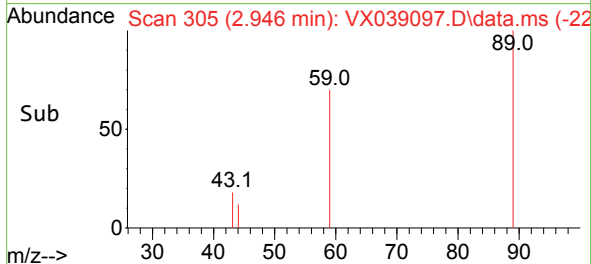
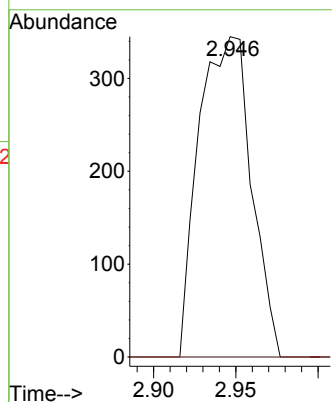
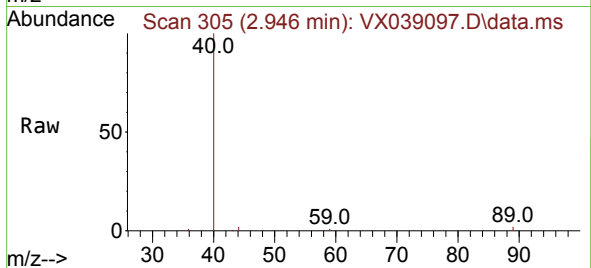




#23
tert-Butyl Alcohol
Concen: 1.260 ug/l
RT: 2.946 min Scan# 305
Delta R.T. -0.000 min
Lab File: VX039097.D
Acq: 08 Dec 2023 11:38

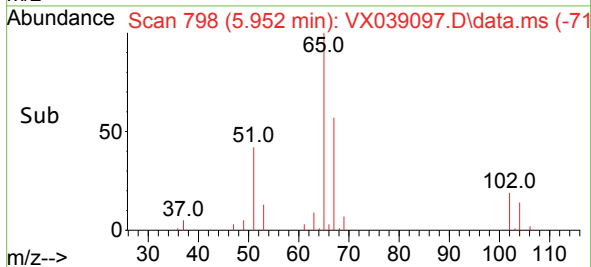
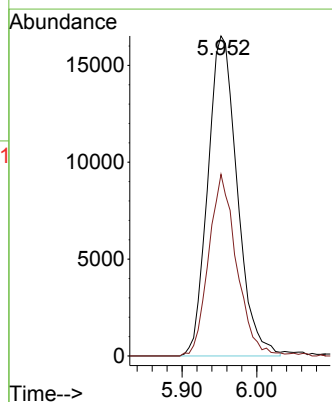
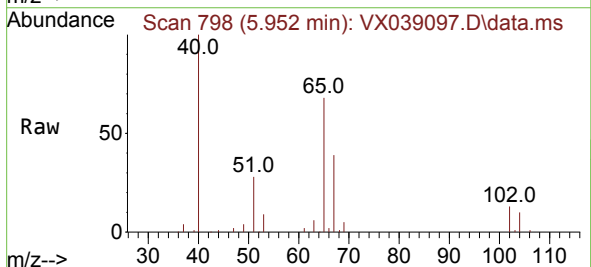
Instrument :
MSVOA_X
ClientSampleId :
VX1208WBL01

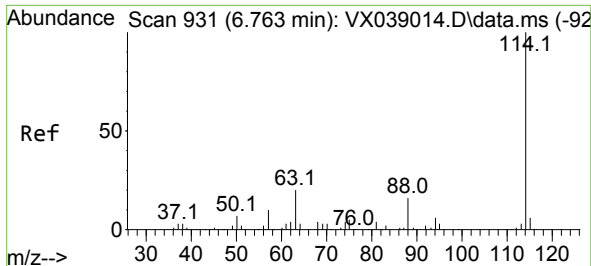
Tgt Ion: 59 Resp: 767
Ion Ratio Lower Upper
59 100
52 31.2 0.0 0.0#



#27
1,2-Dichloroethane-d4
Concen: 31.172 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX039097.D
Acq: 08 Dec 2023 11:38

Tgt Ion: 65 Resp: 45196
Ion Ratio Lower Upper
65 100
67 53.6 42.5 63.7

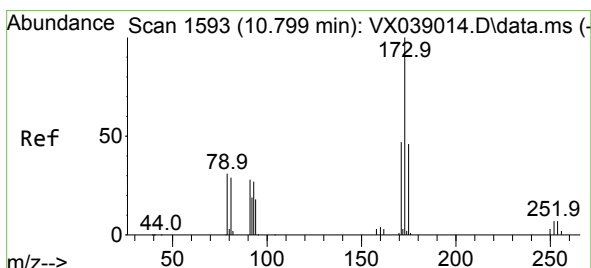
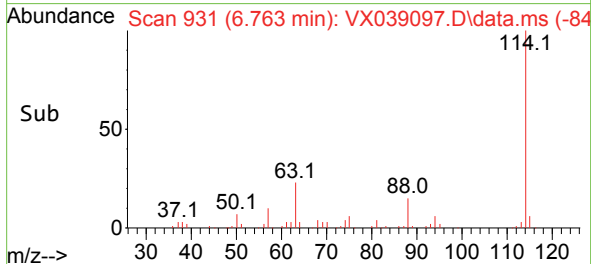
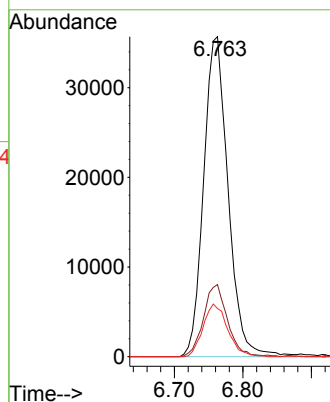
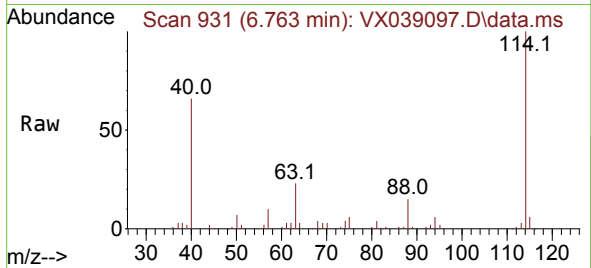




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX039097.D
Acq: 08 Dec 2023 11:38

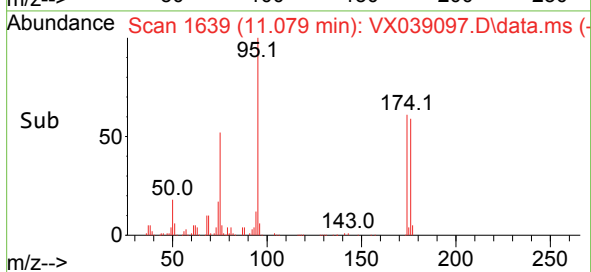
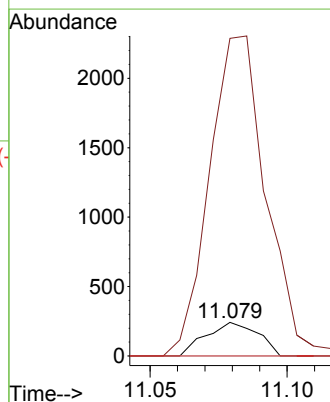
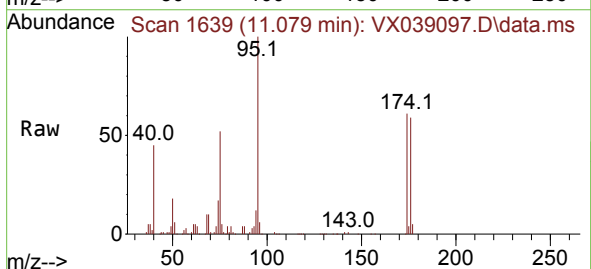
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MSVOA_X
ClientSampleId :
VX1208WBL01

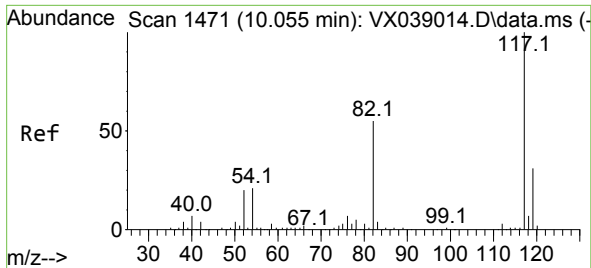
Tgt Ion:114 Resp: 88350
Ion Ratio Lower Upper
114 100
63 22.1 17.0 25.4
88 16.6 12.7 19.1



#56
Bromoform
Concen: 0.227 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.280 min
Lab File: VX039097.D
Acq: 08 Dec 2023 11:38

Tgt Ion:173 Resp: 321
Ion Ratio Lower Upper
173 100
175 1033.6 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: VX039097.D

Acq: 08 Dec 2023 11:38

Instrument :

MSVOA_X

ClientSampleId :

VX1208WBL01

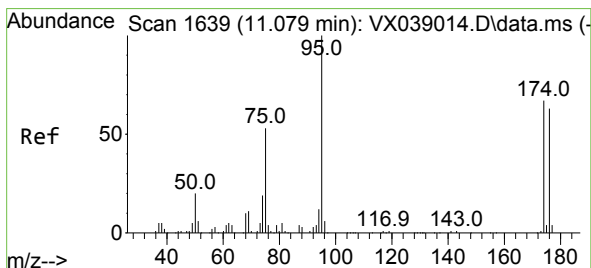
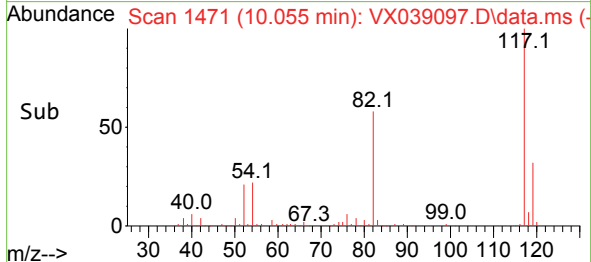
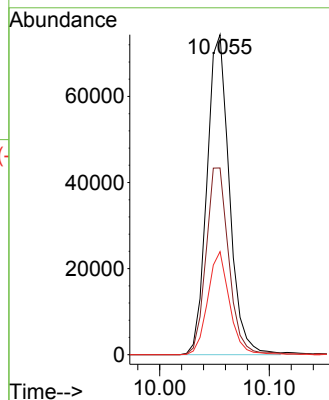
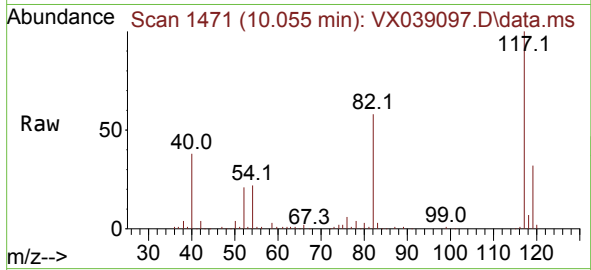
Tgt Ion:117 Resp: 105553

Ion Ratio Lower Upper

117 100

82 59.4 47.0 70.6

119 31.4 25.2 37.8



#60

4-Bromofluorobenzene

Concen: 29.422 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX039097.D

Acq: 08 Dec 2023 11:38

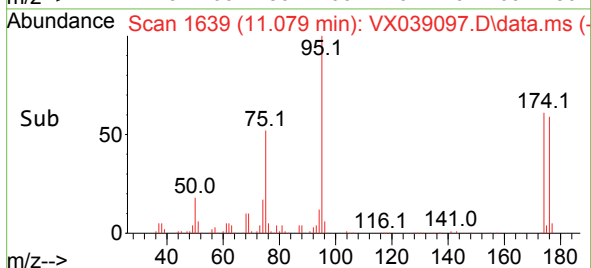
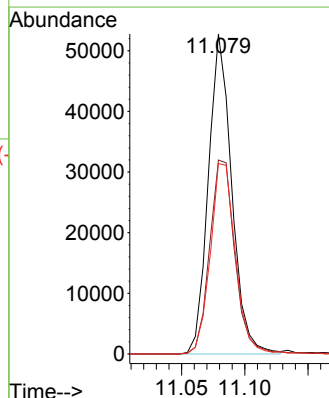
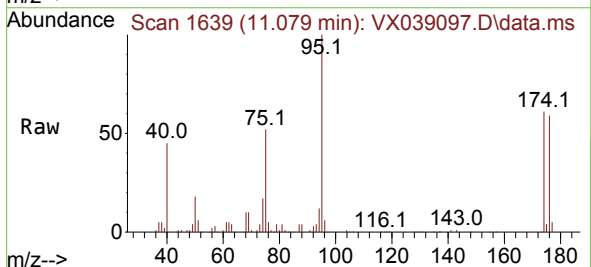
Tgt Ion: 95 Resp: 67831

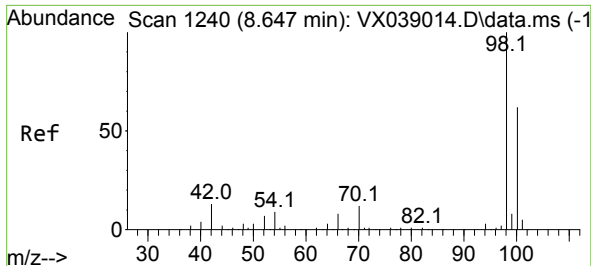
Ion Ratio Lower Upper

95 100

174 65.6 55.4 83.2

176 63.8 52.6 78.8

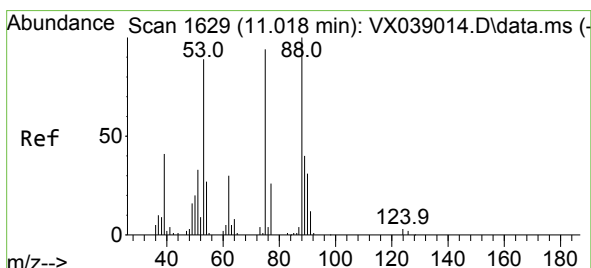
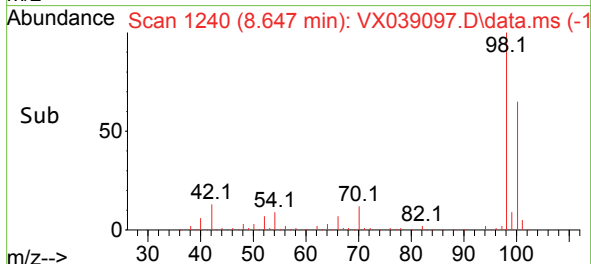
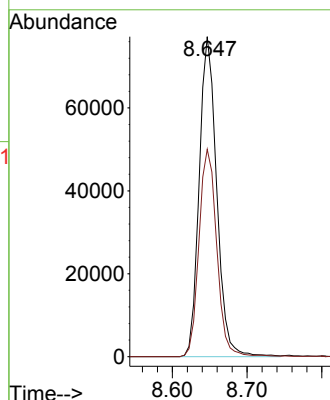
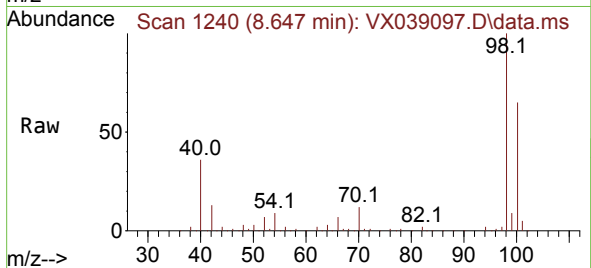




#63
Toluene-d8
Concen: 30.057 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX039097.D
Acq: 08 Dec 2023 11:38

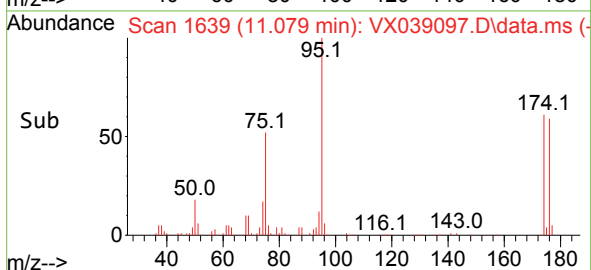
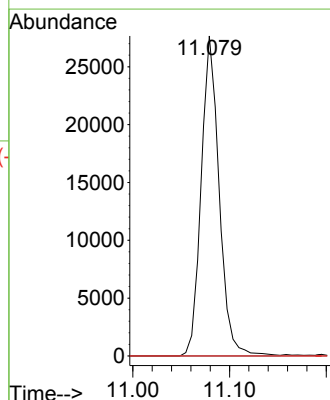
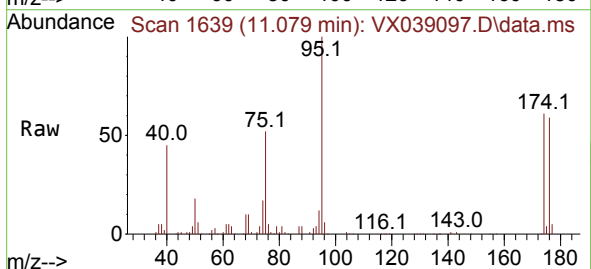
Instrument :
MSVOA_X
ClientSampleId :
VX1208WBL01

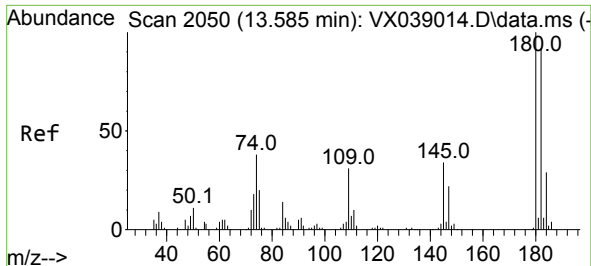
Tgt Ion: 98 Resp: 125432
Ion Ratio Lower Upper
98 100
100 65.5 51.0 76.4



#77
t-1,4-Dichloro-2-butene
Concen: 35.051 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX039097.D
Acq: 08 Dec 2023 11:38

Tgt Ion: 75 Resp: 35854
Ion Ratio Lower Upper
75 100
53 0.0 46.9 140.8#
89 0.0 21.3 63.7#





#89

1,2,4-Trichlorobenzene

Concen: 0.239 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX039097.D

Acq: 08 Dec 2023 11:38

Instrument :

MSVOA_X

ClientSampleId :

VX1208WBL01

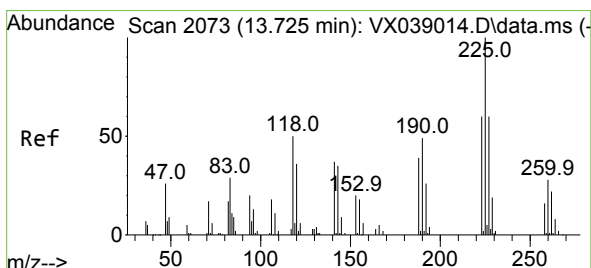
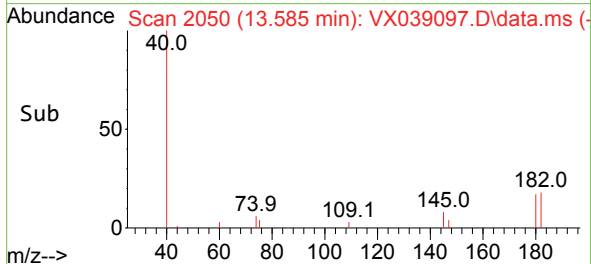
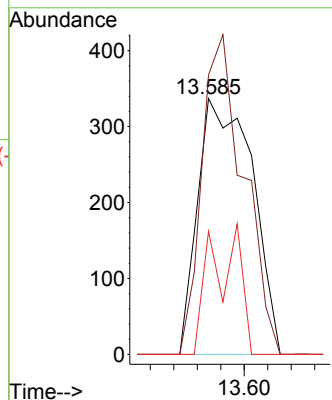
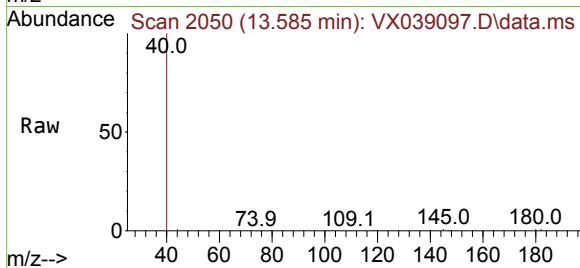
Tgt Ion:180 Resp: 542

Ion Ratio Lower Upper

180 100

182 96.1 74.5 111.7

145 27.1 26.6 40.0



#90

Hexachlorobutadiene

Concen: 0.312 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX039097.D

Acq: 08 Dec 2023 11:38

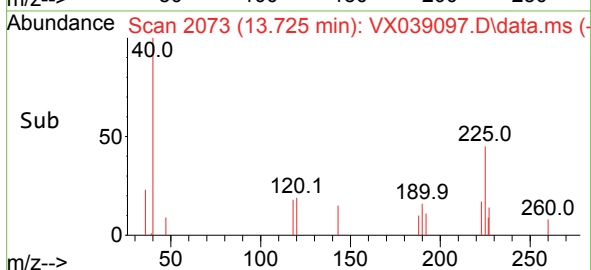
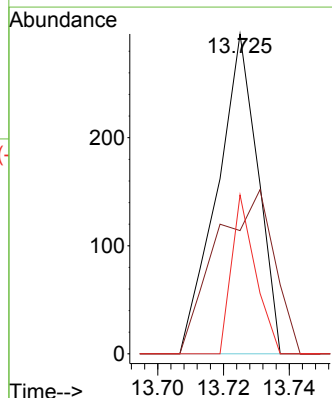
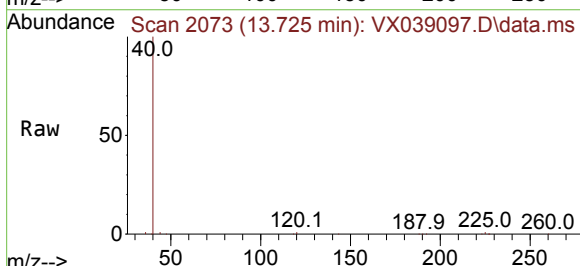
Tgt Ion:225 Resp: 253

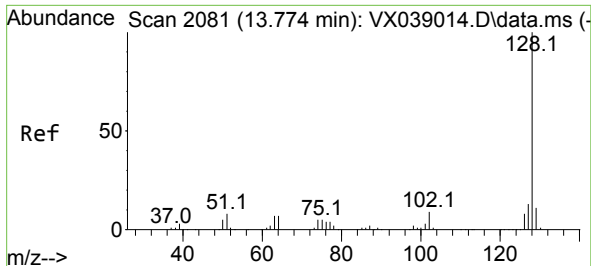
Ion Ratio Lower Upper

225 100

223 73.5 0.0 124.4

227 29.2 0.0 124.4

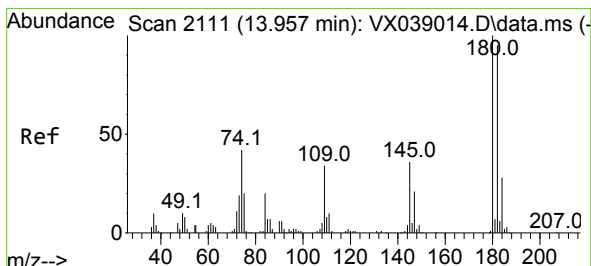
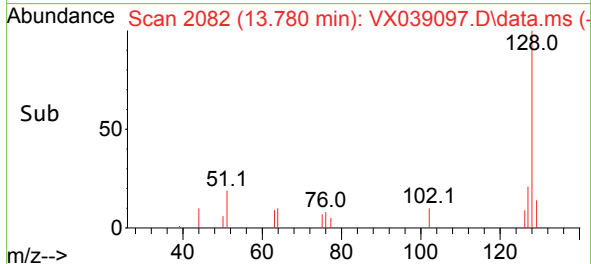
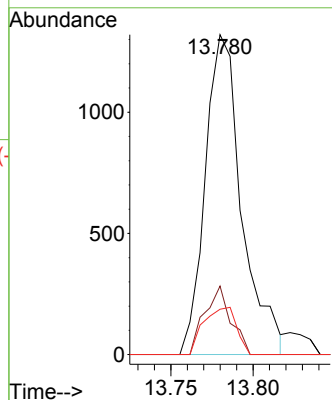
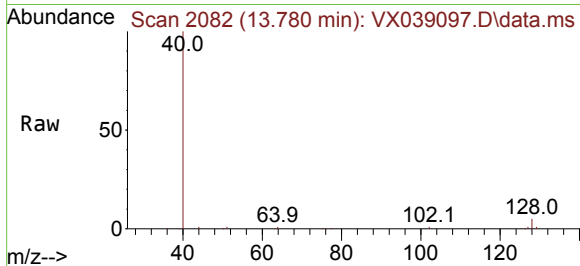




#91
Naphthalene
Concen: 0.243 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX039097.D
Acq: 08 Dec 2023 11:38

Instrument :
MSVOA_X
ClientSampleId :
VX1208WBL01

Tgt Ion:128 Resp: 2037
Ion Ratio Lower Upper
128 100
127 15.5 10.2 15.2#
129 13.3 8.6 12.8#



#92
1,2,3-Trichlorobenzene
Concen: 0.218 ug/l
RT: 13.969 min Scan# 2113
Delta R.T. 0.012 min
Lab File: VX039097.D
Acq: 08 Dec 2023 11:38

Tgt Ion:180 Resp: 480
Ion Ratio Lower Upper
180 100
182 105.6 0.0 191.6
145 29.6 0.0 69.6

