

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081624\
 Data File : VX043068.D
 Acq On : 16 Aug 2024 12:05
 Operator : JC/MD
 Sample : P3606-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 16 23:53:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X081324W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 13 13:22:56 2024
 Response via : Initial Calibration

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

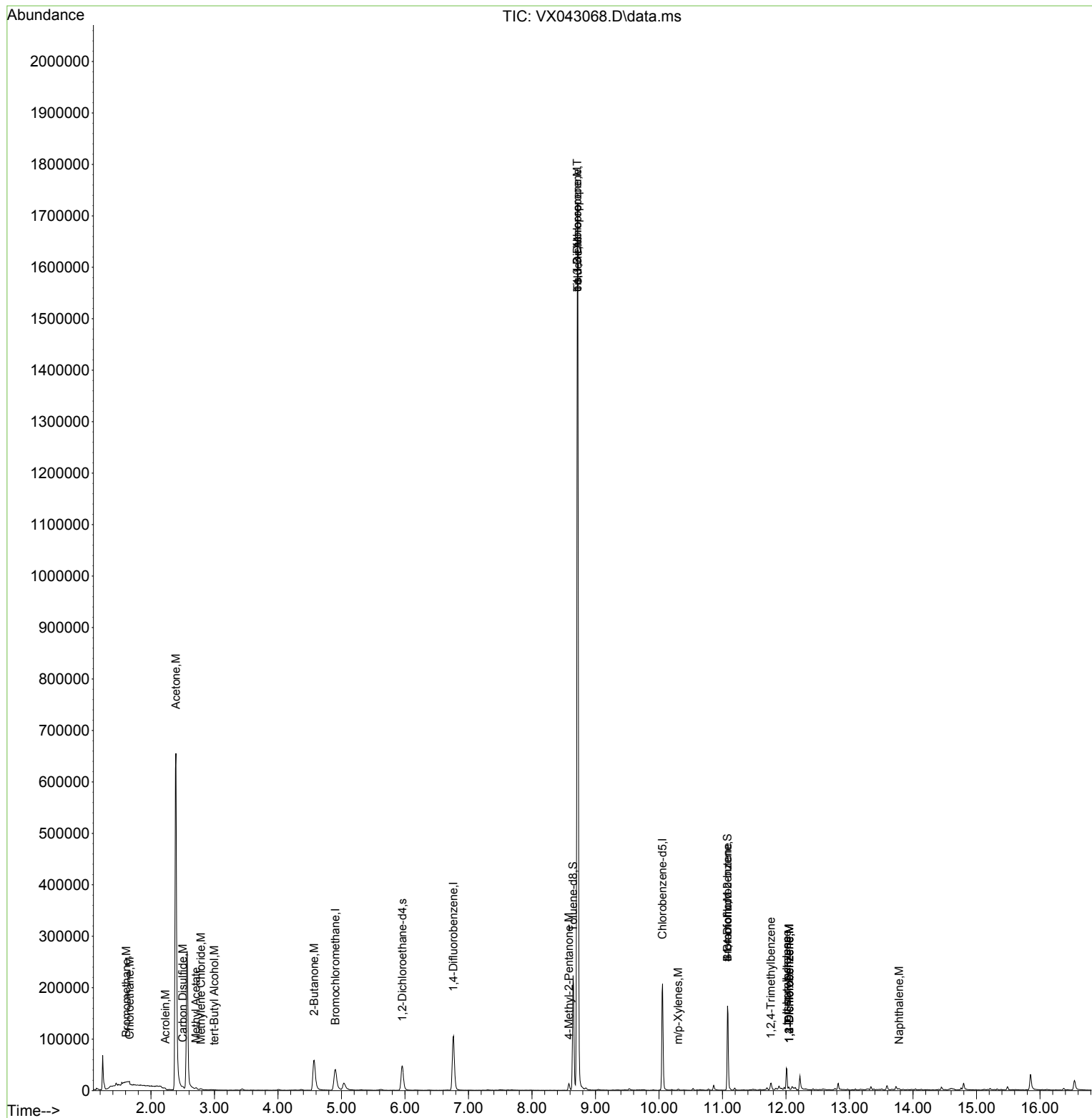
Internal Standards						
1) Bromochloromethane	4.904	128	19076	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	111581	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	99055	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	43655	28.271	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.233%		
60) 4-Bromofluorobenzene	11.079	95	45174	26.864	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	89.533%		
63) Toluene-d8	8.647	98	136078	29.905	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.700%		
Target Compounds					Qvalue	
5) Bromomethane	1.612	94	259	0.648	ug/l	88
6) Chloroethane	1.666	64	602	1.486	ug/l #	45
12) Methyl Acetate	2.709	43	3681	1.550	ug/l	93
13) Acrolein	2.227	56	131	0.335	ug/l	82
15) Acetone	2.392	58	248281	986.966	ug/l	82
16) Carbon Disulfide	2.502	76	3551	0.914	ug/l #	93
18) Methylene Chloride	2.788	84	1136	0.746	ug/l #	76
23) tert-Butyl Alcohol	2.995	59	396	1.009	ug/l #	100
30) 2-Butanone	4.568	43	111192	90.615	ug/l	99
48) t-1,3-Dichloropropene	8.714	75	7626	3.635	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	7626	3.331	ug/l #	1
56) Bromoform	11.079	173	285	0.288	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	8253	3.603	ug/l	99
62) Toluene	8.720	91	1148512	202.977	ug/l	97
67) m/p-Xylenes	10.299	106	606	0.264	ug/l #	73
77) t-1,4-Dichloro-2-butene	11.079	75	23109	27.055	ug/l #	11
79) tert-butylbenzene	12.012	119	19459	4.059	ug/l	63
80) 1,2,4-Trimethylbenzene	11.762	105	3290	0.686	ug/l	50
82) p-Isopropyltoluene	12.012	119	19459	3.971	ug/l	98
83) 1,3-Dichlorobenzene	12.049	146	1004	0.411	ug/l	93
84) 1,4-Dichlorobenzene	12.049	146	1004	0.411	ug/l	94
87) 1,2-Dichlorobenzene	12.049	146	1004	0.413	ug/l	94
91) Naphthalene	13.780	128	1620	0.288	ug/l #	75

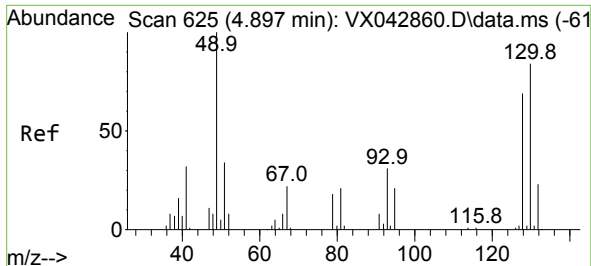
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081624\
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Sample : P3606-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

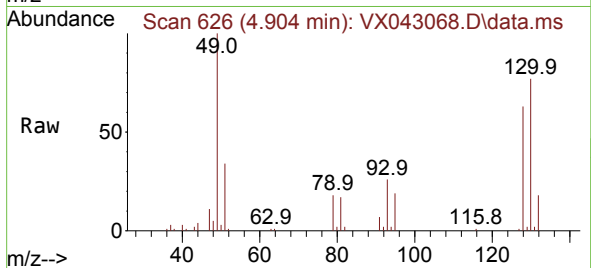
Quant Time: Aug 16 23:53:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X081324W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Aug 13 13:22:56 2024
Response via : Initial Calibration



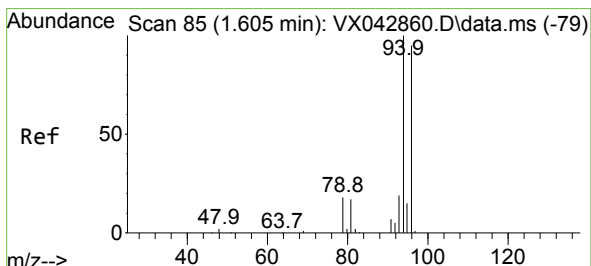
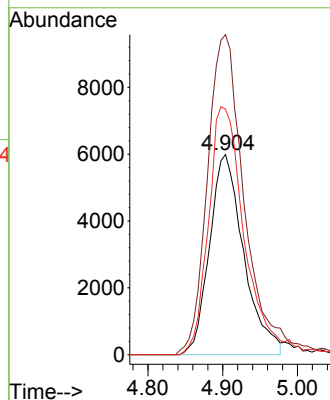
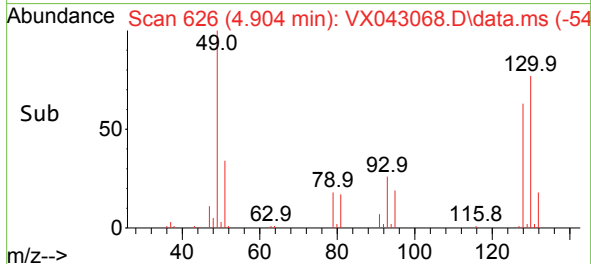


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

Instrument :
MSVOA_X
ClientSampleId :

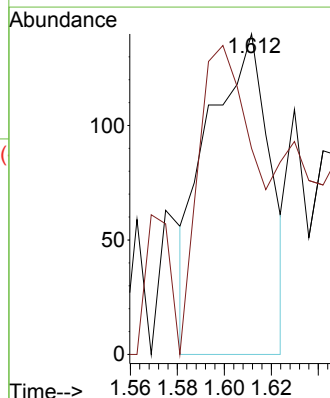
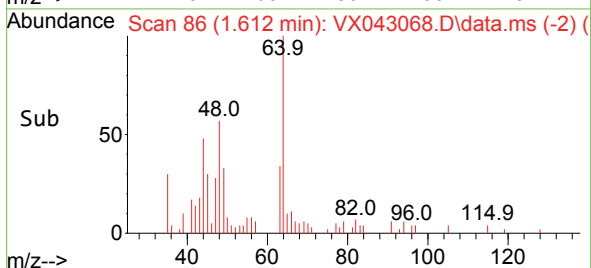
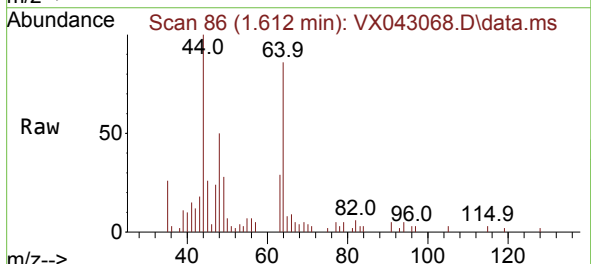


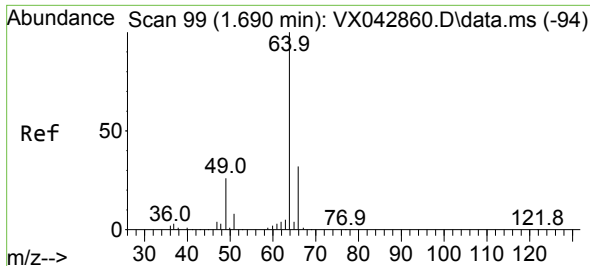
Tgt Ion:128 Resp: 19076
Ion Ratio Lower Upper
128 100
49 173.1 0.0 400.5
130 128.5 0.0 333.0



#5
Bromomethane
Concen: 0.648 ug/l
RT: 1.612 min Scan# 86
Delta R.T. 0.012 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

Tgt Ion: 94 Resp: 259
Ion Ratio Lower Upper
94 100
96 107.1 76.2 114.4

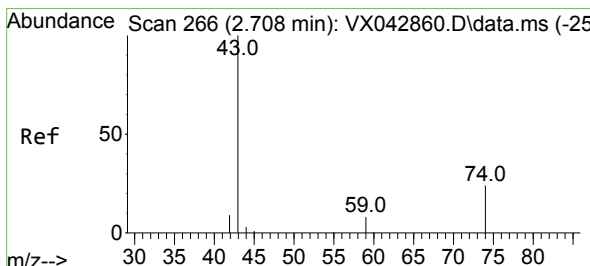
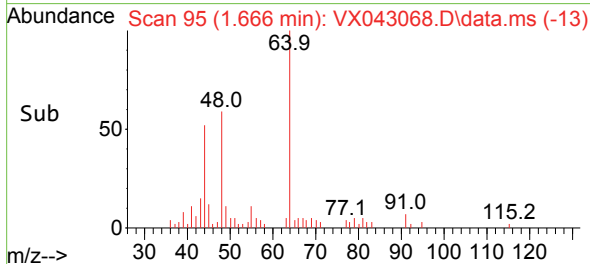
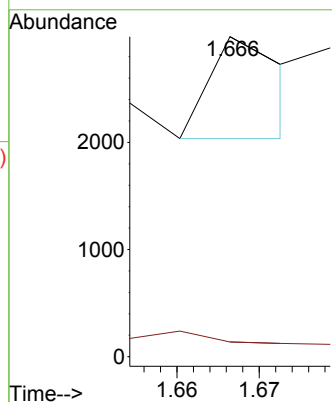
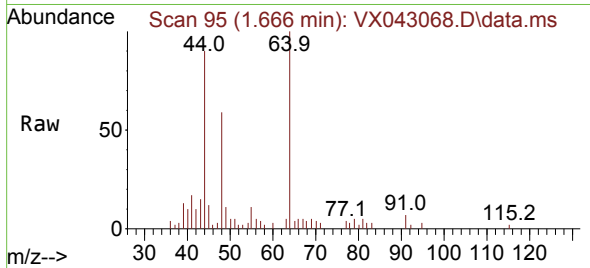




#6
Chloroethane
Concen: 1.486 ug/l
RT: 1.666 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

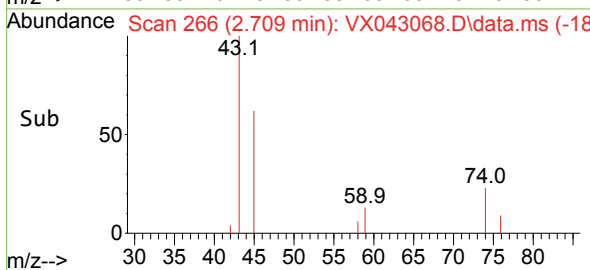
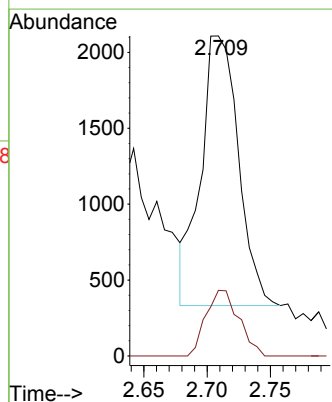
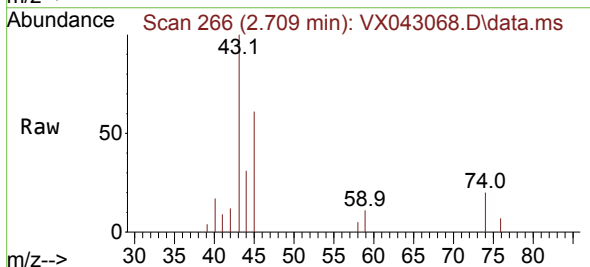
Instrument :
MSVOA_X
ClientSampleId :

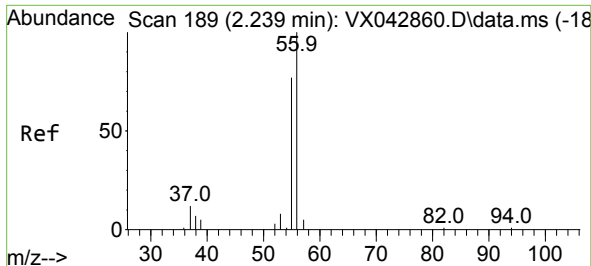
Tgt Ion: 64 Resp: 602
Ion Ratio Lower Upper
64 100
66 1.5 25.9 38.9#



#12
Methyl Acetate
Concen: 1.550 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

Tgt Ion: 43 Resp: 3681
Ion Ratio Lower Upper
43 100
74 27.5 19.4 29.2

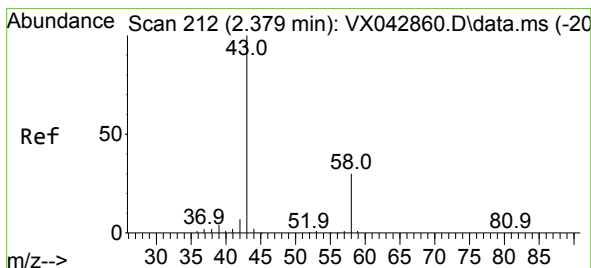
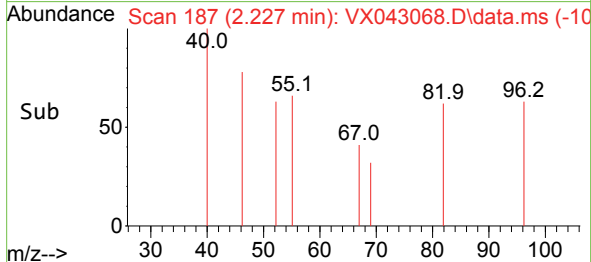
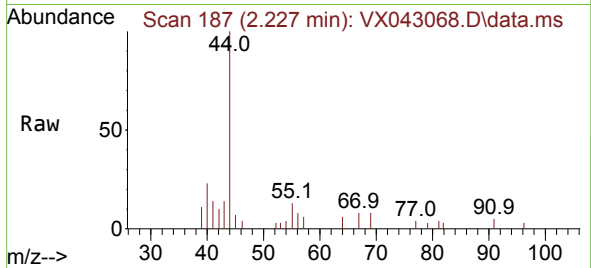




#13
Acrolein
Concen: 0.335 ug/l
RT: 2.227 min Scan# 11
Delta R.T. -0.012 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

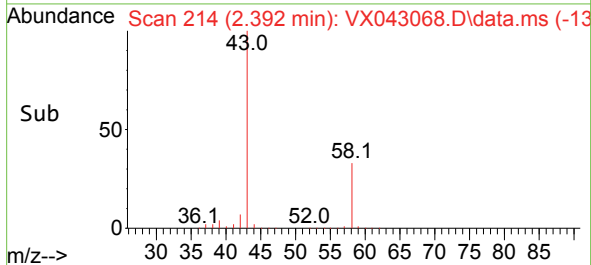
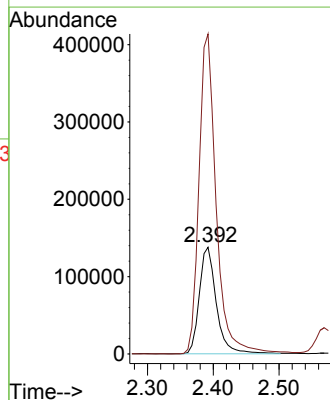
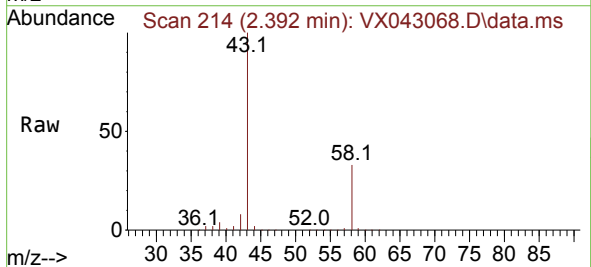
Instrument :
MSVOA_X
ClientSampleId :

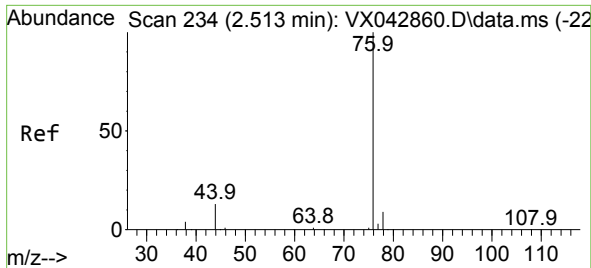
Tgt Ion: 56 Resp: 131
Ion Ratio Lower Upper
56 100
55 90.8 60.6 90.8



#15
Acetone
Concen: 986.966 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

Tgt Ion: 58 Resp: 248281
Ion Ratio Lower Upper
58 100
43 299.9 269.9 404.9

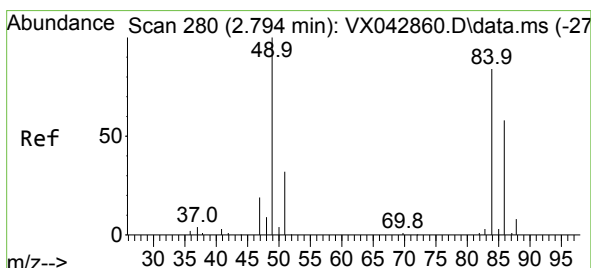
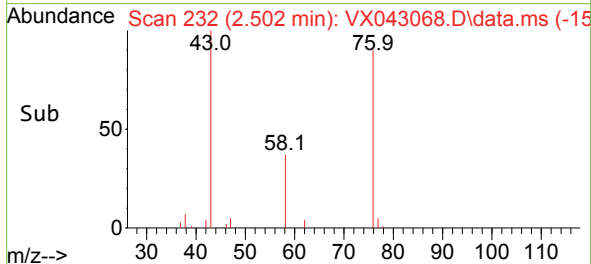
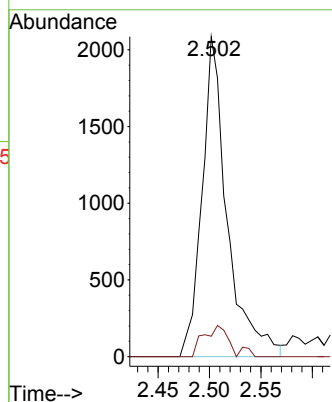
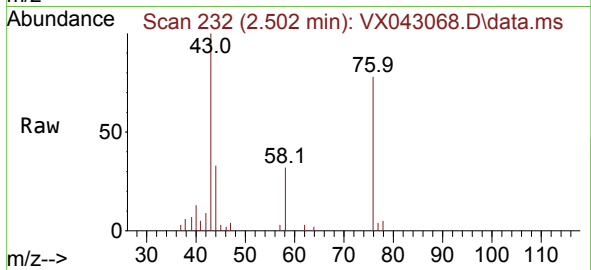




#16
Carbon Disulfide
Concen: 0.914 ug/l
RT: 2.502 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

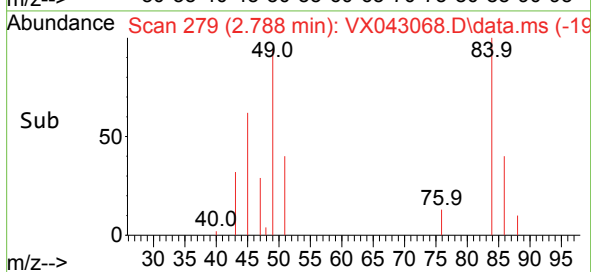
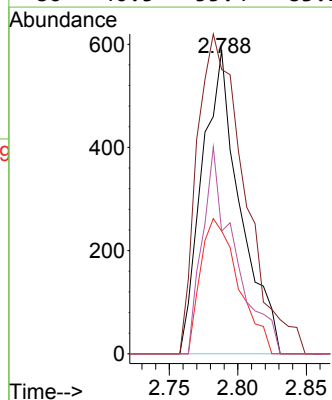
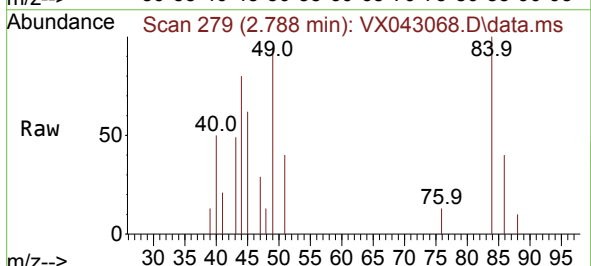
Instrument :
MSVOA_X
ClientSampleId :

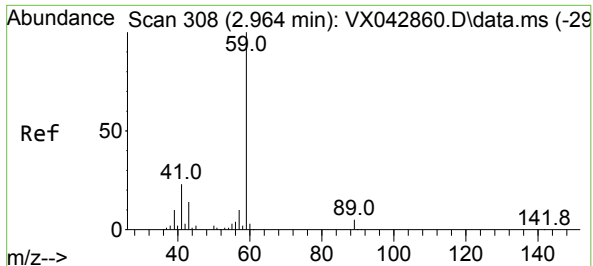
Tgt Ion: 76 Resp: 3551
Ion Ratio Lower Upper
76 100
78 6.4 7.1 10.7#



#18
Methylene Chloride
Concen: 0.746 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

Tgt Ion: 84 Resp: 1136
Ion Ratio Lower Upper
84 100
49 93.7 95.0 142.6#
51 40.5 30.1 45.1
86 40.5 55.4 83.2#

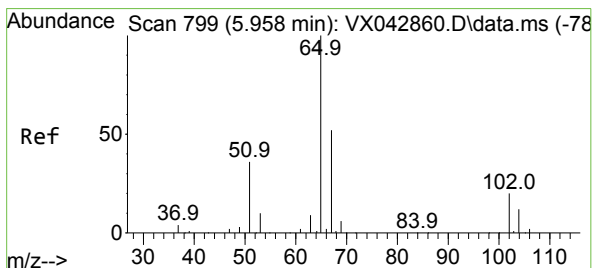
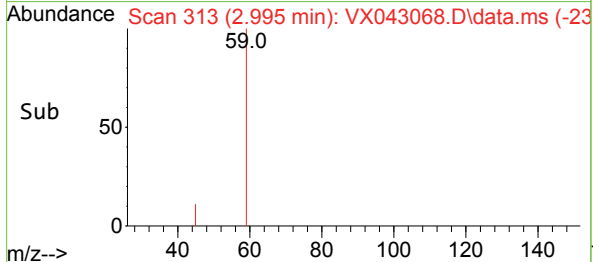
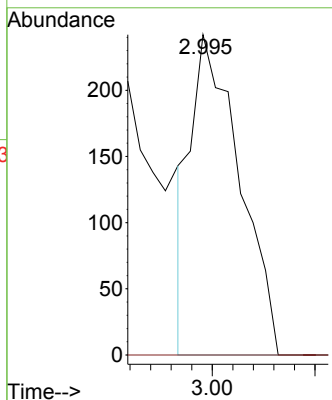
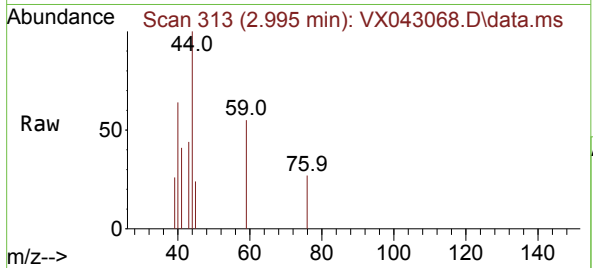




#23
tert-Butyl Alcohol
Concen: 1.009 ug/l
RT: 2.995 min Scan# 313
Delta R.T. 0.000 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

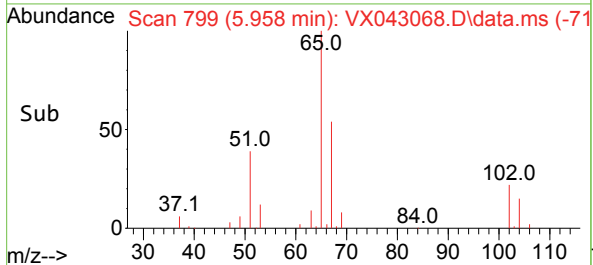
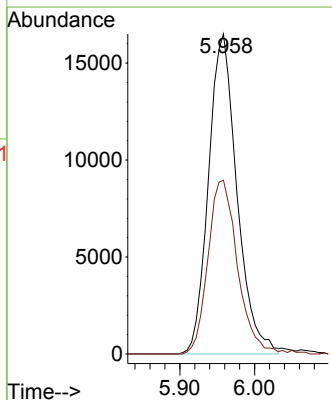
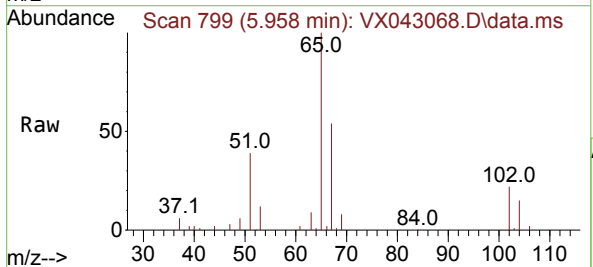
Instrument :
MSVOA_X
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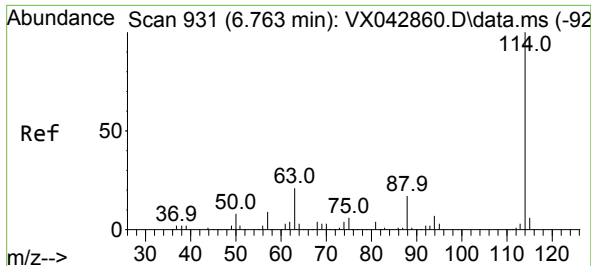
Tgt Ion: 59 Resp: 396
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#27
1,2-Dichloroethane-d4
Concen: 28.271 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

Tgt Ion: 65 Resp: 43655
Ion Ratio Lower Upper
65 100
67 55.9 40.6 60.8

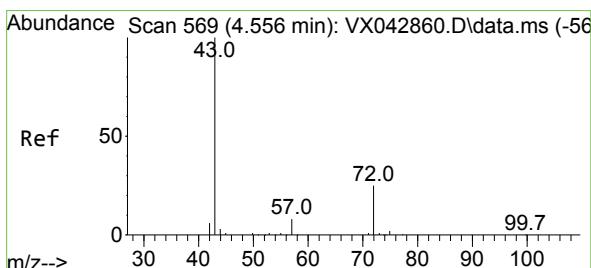
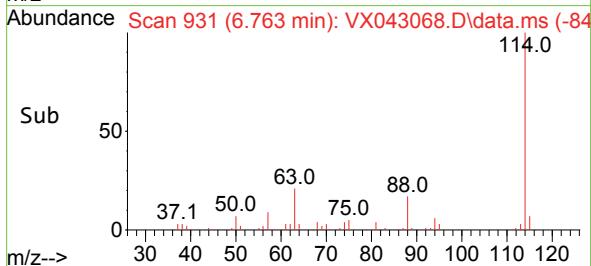
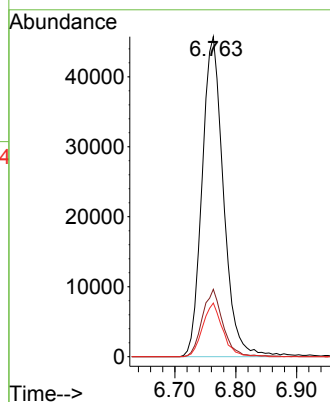
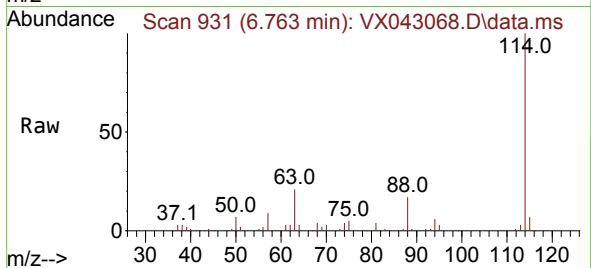




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 911
Delta R.T. 0.006 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

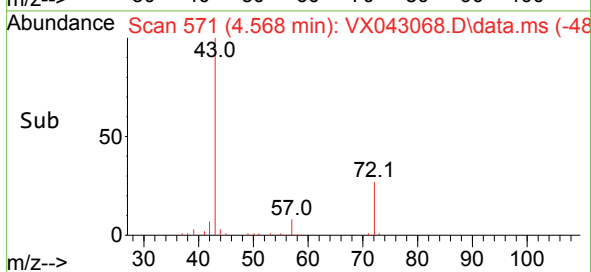
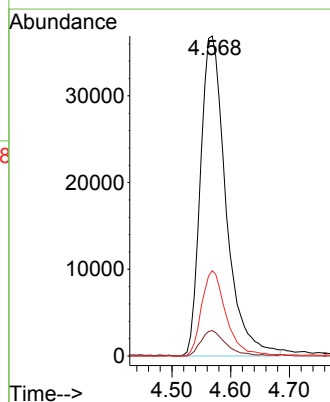
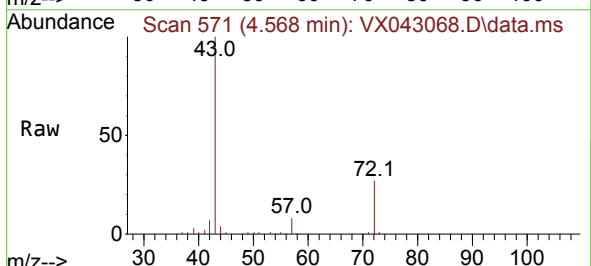
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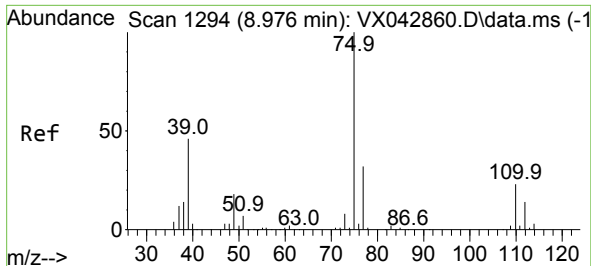
Tgt Ion:114 Resp: 111581
Ion Ratio Lower Upper
114 100
63 20.1 16.0 24.0
88 15.6 12.5 18.7



#30
2-Butanone
Concen: 90.615 ug/l
RT: 4.568 min Scan# 571
Delta R.T. 0.000 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

Tgt Ion: 43 Resp: 111192
Ion Ratio Lower Upper
43 100
57 7.8 6.6 10.0
72 25.6 21.0 31.4





#48

t-1,3-Dichloropropene

Concen: 3.635 ug/l

RT: 8.714 min Scan# 11

Delta R.T. -0.268 min

Lab File: VX043068.D

Acq: 16 Aug 2024 12:05

Instrument :

MSVOA_X

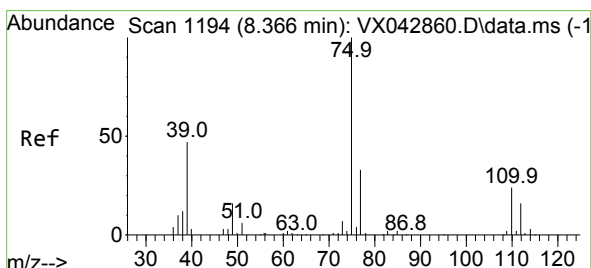
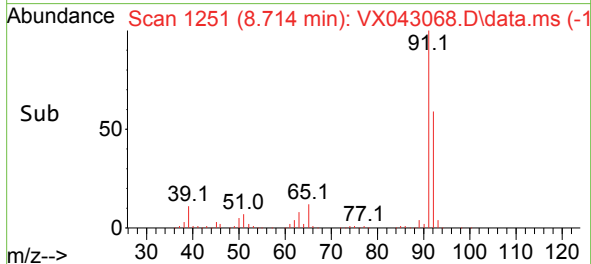
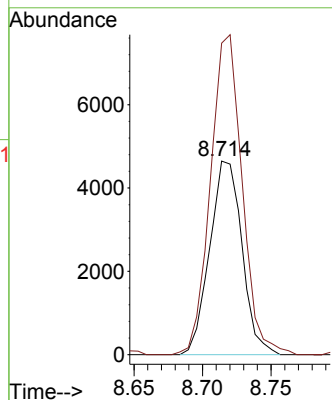
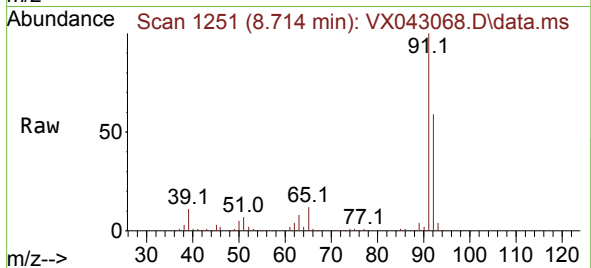
ClientSampleId :

Tgt Ion: 75 Resp: 7626

Ion Ratio Lower Upper

75 100

77 159.4 25.6 38.4#



#49

cis-1,3-Dichloropropene

Concen: 3.331 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.348 min

Lab File: VX043068.D

Acq: 16 Aug 2024 12:05

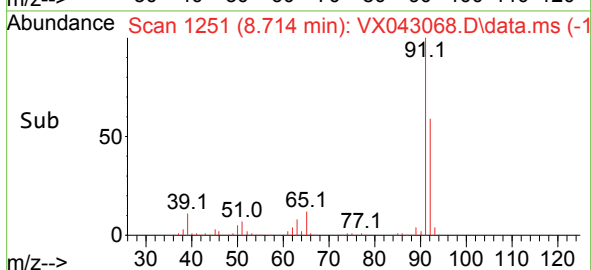
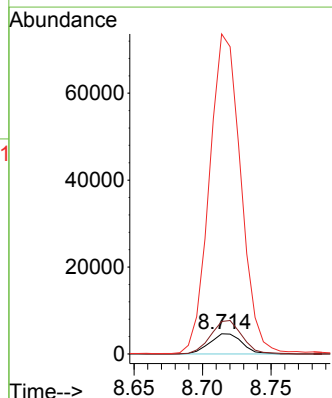
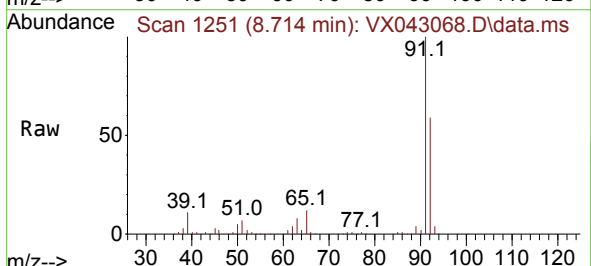
Tgt Ion: 75 Resp: 7626

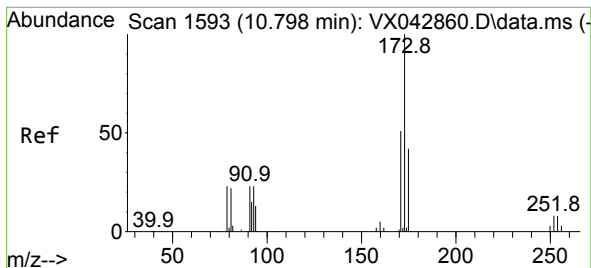
Ion Ratio Lower Upper

75 100

77 159.4 26.8 40.2#

39 1578.2 37.5 56.3#





#56

Bromoform

Concen: 0.288 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.281 min

Lab File: VX043068.D

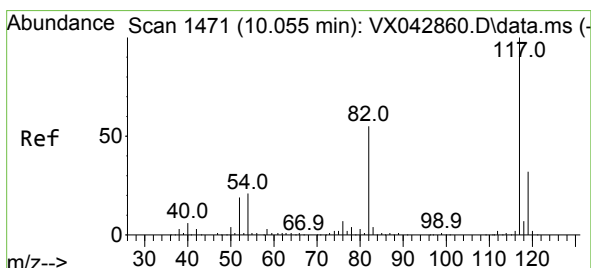
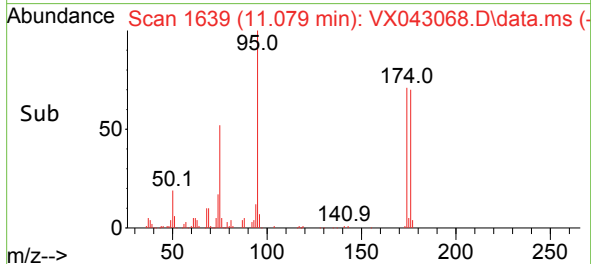
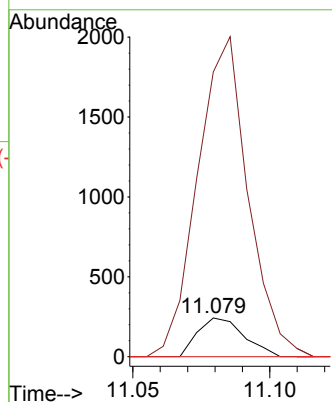
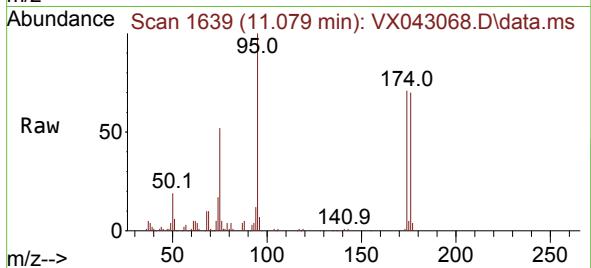
Acq: 16 Aug 2024 12:05

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:173	Resp:	285
Ion Ratio	Lower	Upper
173	100	
175	901.4	37.1 55.7#
254	0.0	6.6 10.0#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

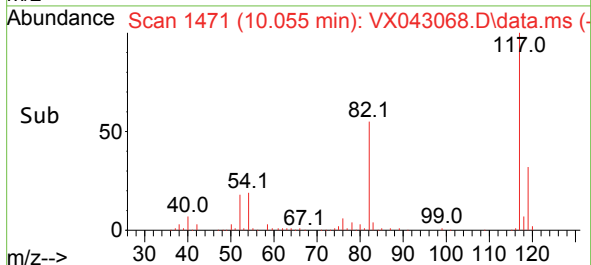
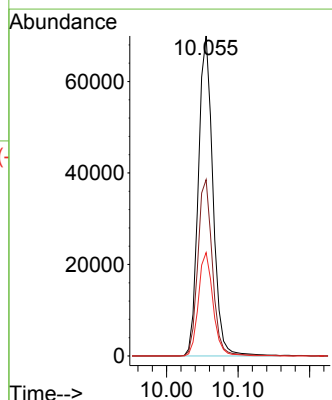
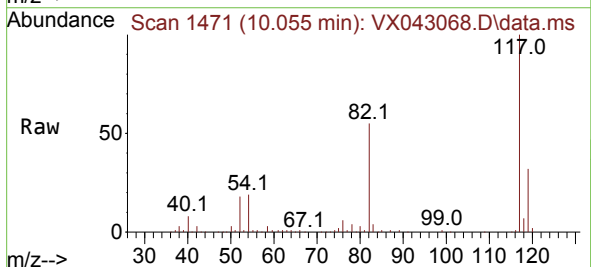
RT: 10.055 min Scan# 1471

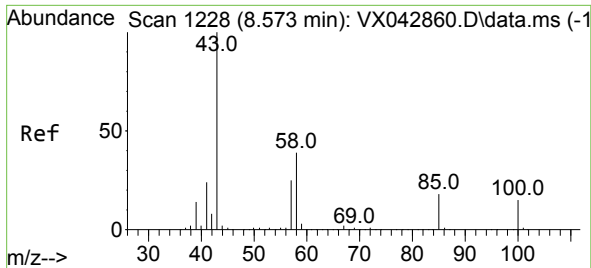
Delta R.T. 0.000 min

Lab File: VX043068.D

Acq: 16 Aug 2024 12:05

Tgt Ion:117	Resp:	99055
Ion Ratio	Lower	Upper
117	100	
82	54.7	44.9 67.3
119	32.4	25.4 38.2

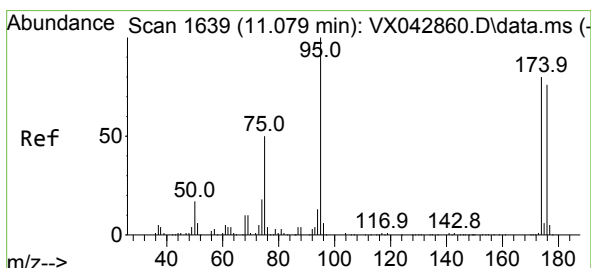
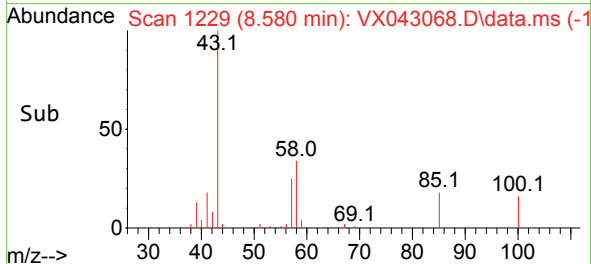
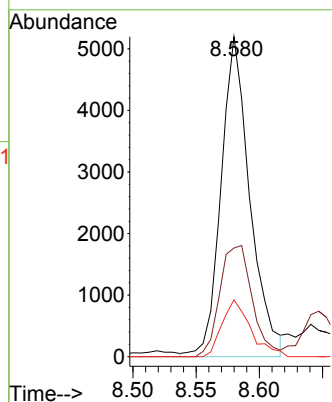
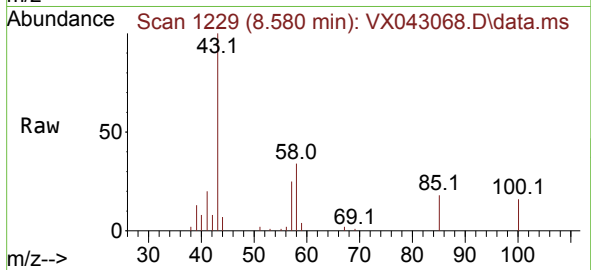




#58
 4-Methyl-2-Pentanone
 Concen: 3.603 ug/l
 RT: 8.580 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VX043068.D
 Acq: 16 Aug 2024 12:05

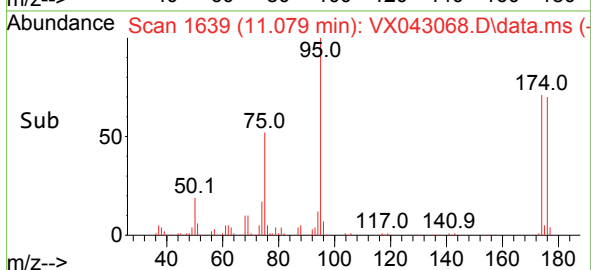
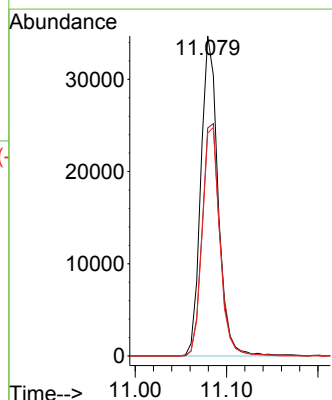
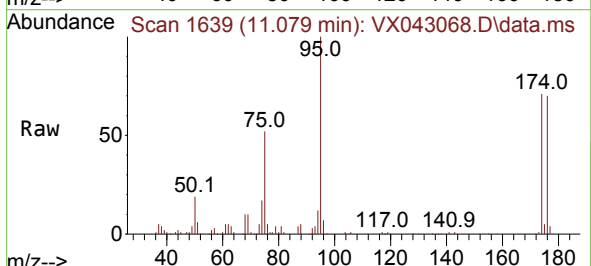
Instrument :
 MSVOA_X
 ClientSampleId :

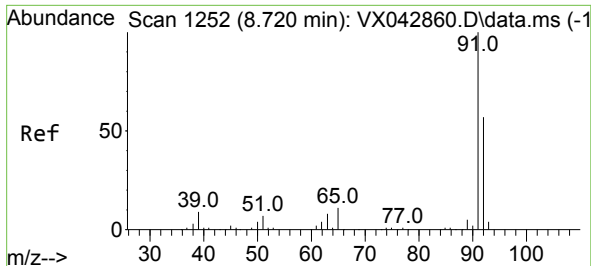
Tgt Ion:	43	Resp:	8253
Ion	Ratio	Lower	Upper
43	100		
58	39.0	31.4	47.0
85	17.6	14.6	21.8



#60
 4-Bromofluorobenzene
 Concen: 26.864 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. 0.000 min
 Lab File: VX043068.D
 Acq: 16 Aug 2024 12:05

Tgt Ion:	95	Resp:	45174
Ion	Ratio	Lower	Upper
95	100		
174	75.5	65.0	97.6
176	73.0	63.4	95.0

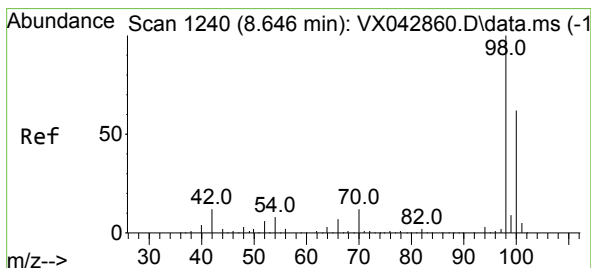
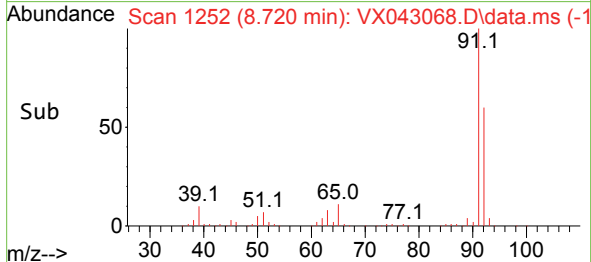
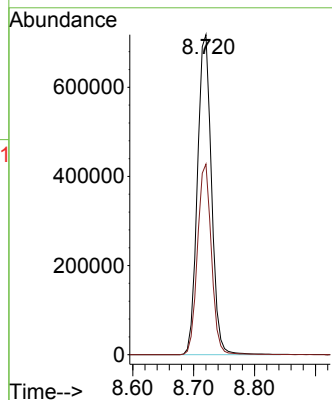
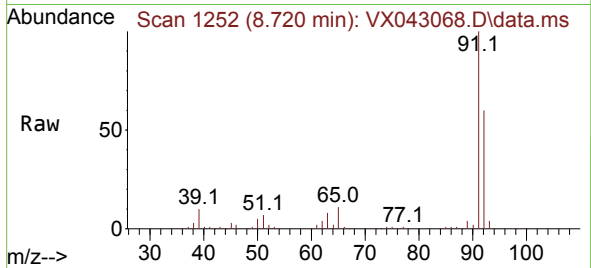




#62
Toluene
Concen: 202.977 ug/l
RT: 8.720 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

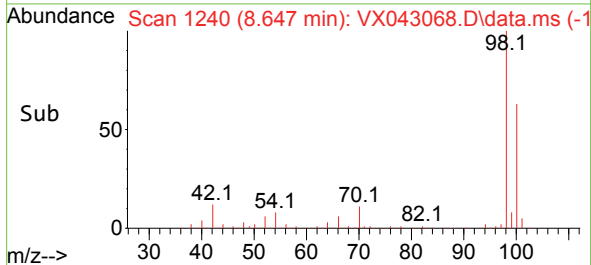
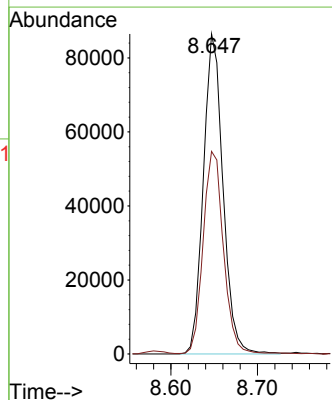
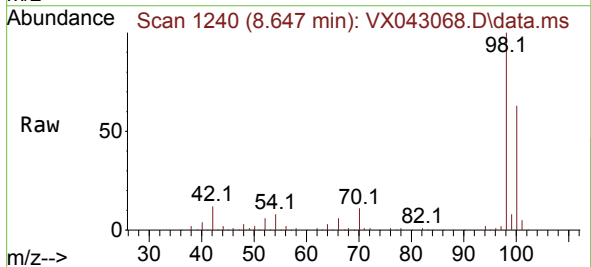
Instrument :
MSVOA_X
ClientSampleId :

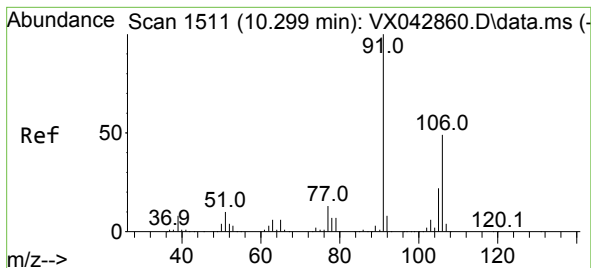
Tgt Ion: 91 Resp: 1148512
Ion Ratio Lower Upper
91 100
92 59.2 45.7 68.5



#63
Toluene-d8
Concen: 29.905 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

Tgt Ion: 98 Resp: 136078
Ion Ratio Lower Upper
98 100
100 65.0 50.9 76.3

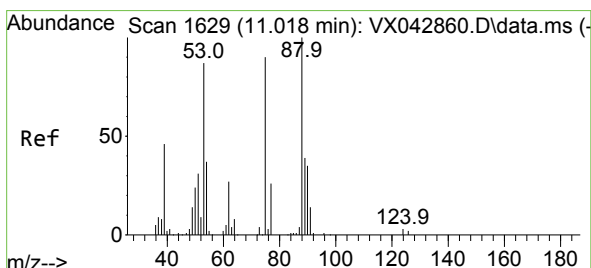
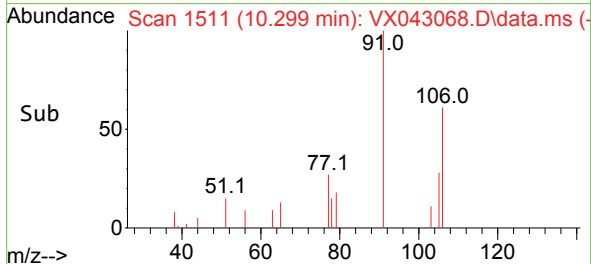
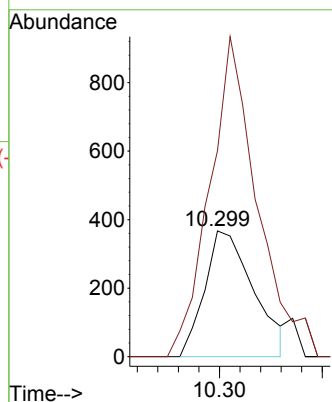
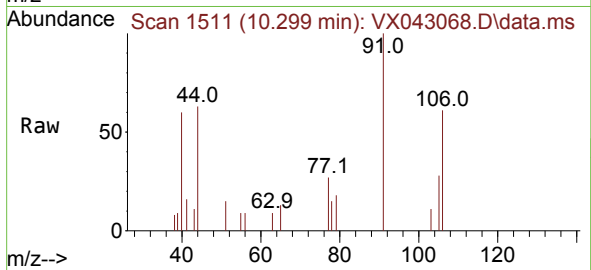




#67
m/p-Xylenes
Concen: 0.264 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

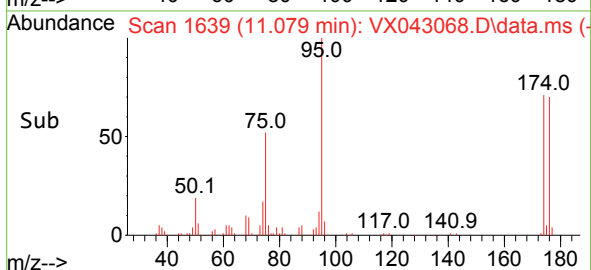
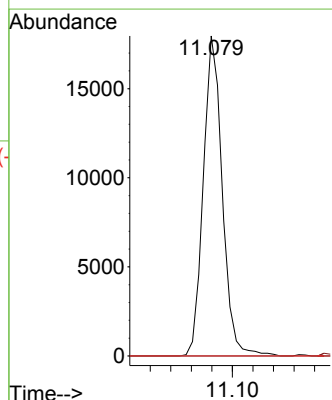
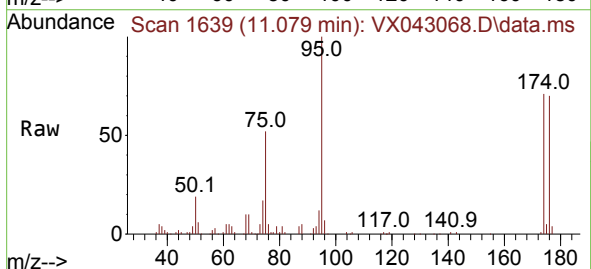
Instrument :
MSVOA_X
ClientSampleId :

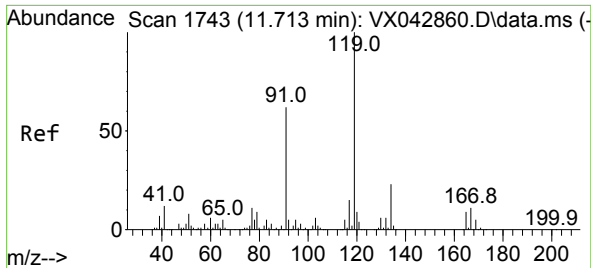
Tgt Ion:106 Resp: 606
Ion Ratio Lower Upper
106 100
91 248.5 165.3 247.9#



#77
t-1,4-Dichloro-2-butene
Concen: 27.055 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

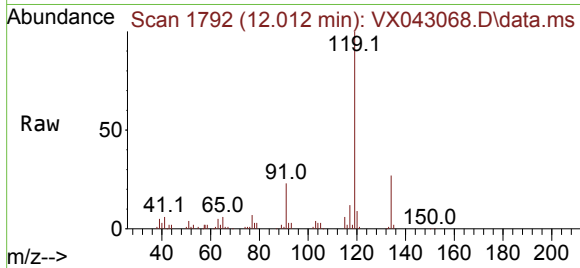
Tgt Ion: 75 Resp: 23109
Ion Ratio Lower Upper
75 100
53 0.0 48.5 145.5#
89 0.0 21.9 65.5#



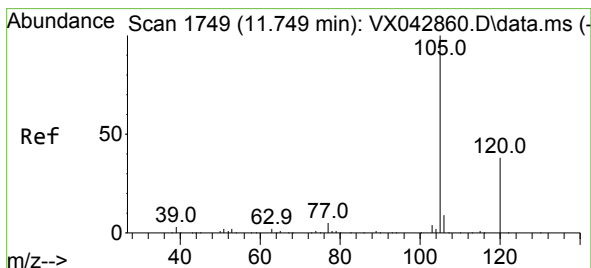
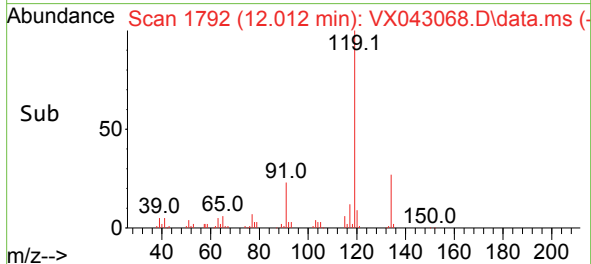
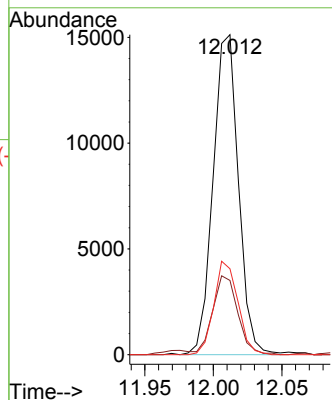


#79
tert-butylbenzene
Concen: 4.059 ug/l
RT: 12.012 min Scan# 1751
Delta R.T. 0.299 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

Instrument :
MSVOA_X
ClientSampleId :

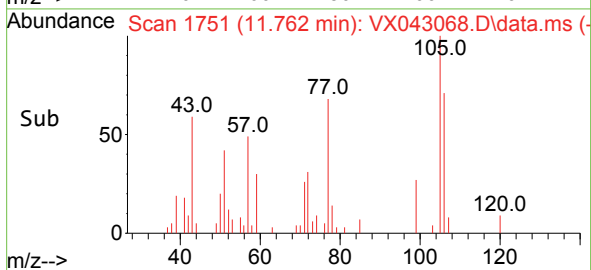
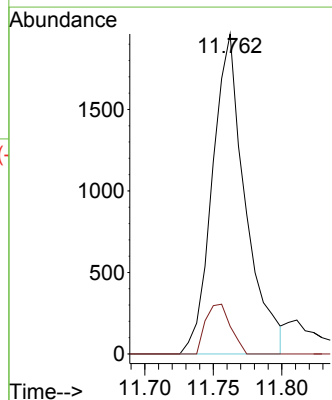
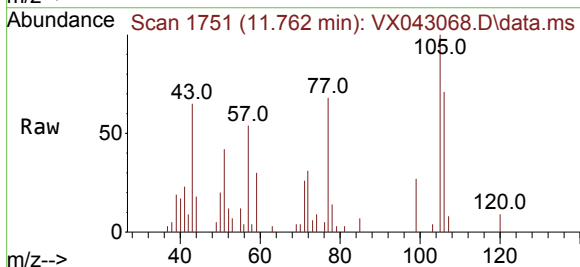


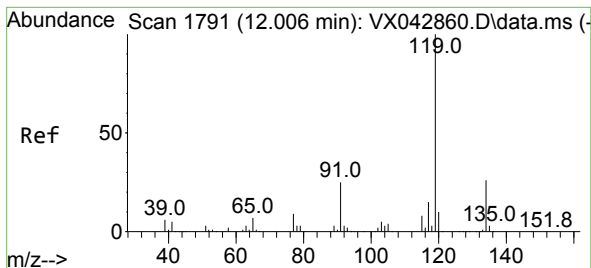
Tgt Ion:119 Resp: 19459
Ion Ratio Lower Upper
119 100
91 24.5 0.0 118.6
134 27.7 0.0 44.4



#80
1,2,4-Trimethylbenzene
Concen: 0.686 ug/l
RT: 11.762 min Scan# 1751
Delta R.T. 0.012 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

Tgt Ion:105 Resp: 3290
Ion Ratio Lower Upper
105 100
120 11.7 0.0 87.8





#82

p-Isopropyltoluene

Concen: 3.971 ug/l

RT: 12.012 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VX043068.D

Acq: 16 Aug 2024 12:05

Instrument :

MSVOA_X

ClientSampleId :

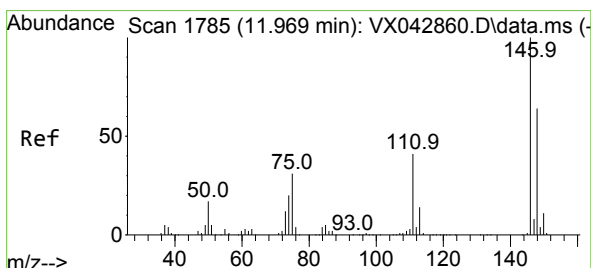
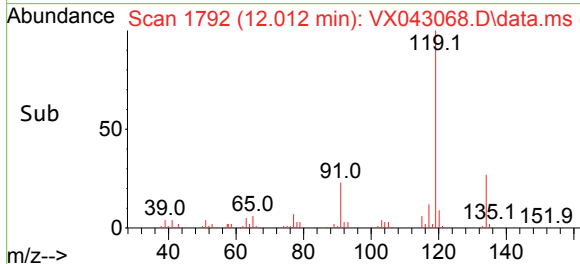
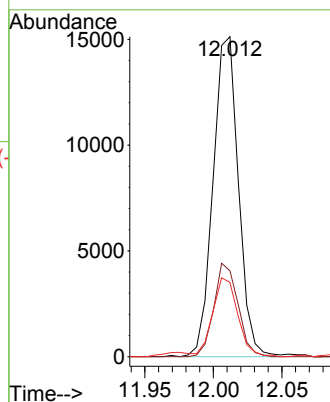
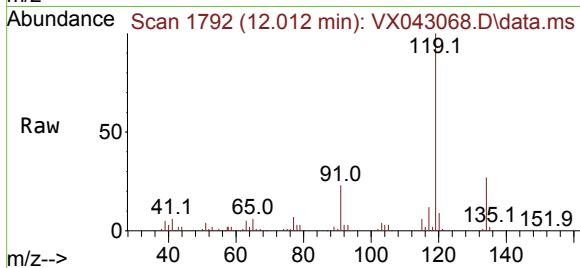
Tgt Ion:119 Resp: 19459

Ion Ratio Lower Upper

119 100

134 27.7 0.0 51.8

91 24.5 0.0 48.4



#83

1,3-Dichlorobenzene

Concen: 0.411 ug/l

RT: 12.049 min Scan# 1798

Delta R.T. 0.079 min

Lab File: VX043068.D

Acq: 16 Aug 2024 12:05

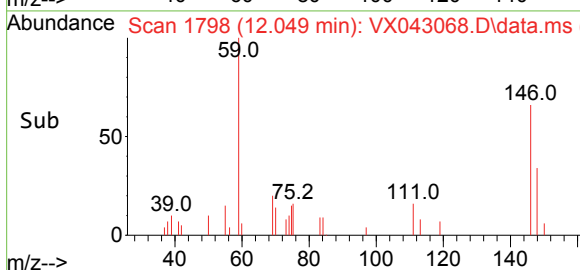
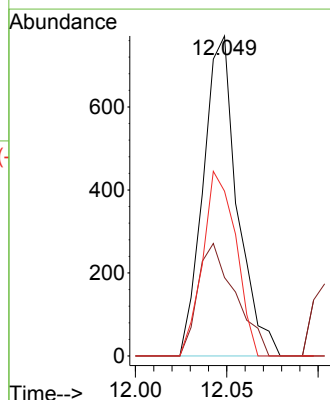
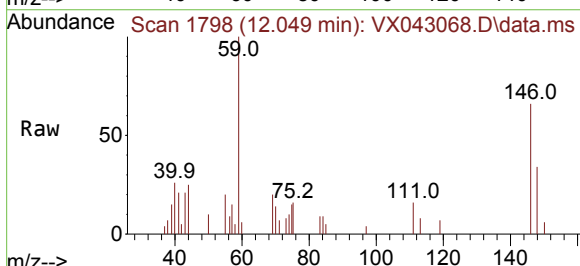
Tgt Ion:146 Resp: 1004

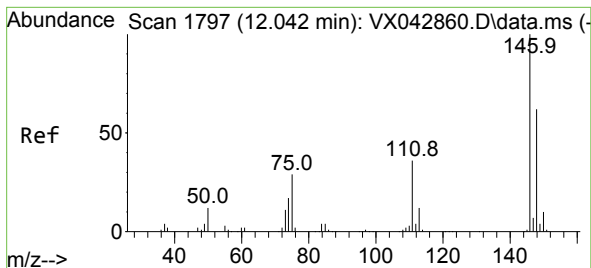
Ion Ratio Lower Upper

146 100

111 38.7 20.3 61.0

148 56.0 31.7 95.1





#84

1,4-Dichlorobenzene

Concen: 0.411 ug/l

RT: 12.049 min Scan# 1798

Delta R.T. 0.006 min

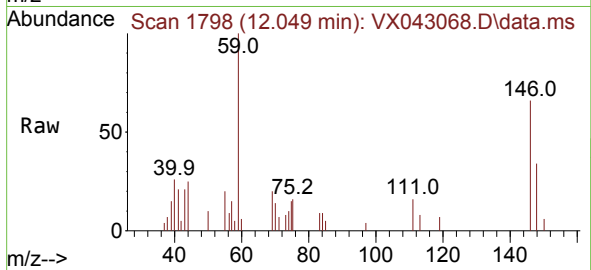
Lab File: VX043068.D

Acq: 16 Aug 2024 12:05

Instrument :

MSVOA_X

ClientSampleId :



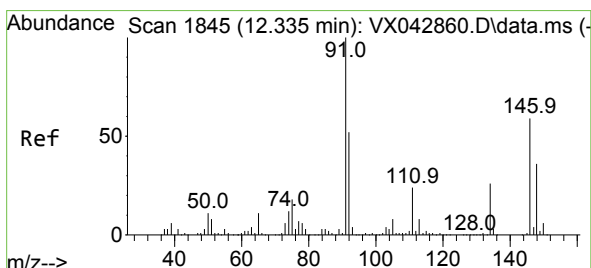
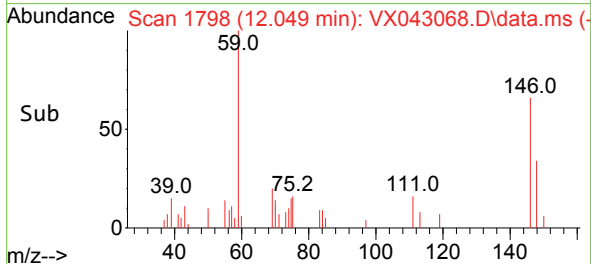
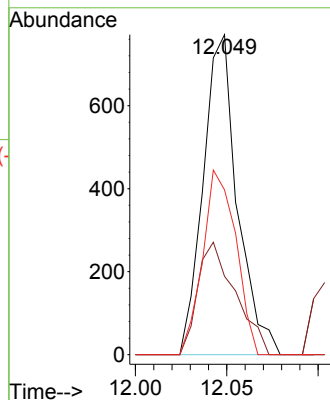
Tgt Ion:146 Resp: 1004

Ion Ratio Lower Upper

146 100

111 38.7 19.4 58.4

148 56.0 31.4 94.2



#87

1,2-Dichlorobenzene

Concen: 0.413 ug/l

RT: 12.049 min Scan# 1798

Delta R.T. -0.286 min

Lab File: VX043068.D

Acq: 16 Aug 2024 12:05

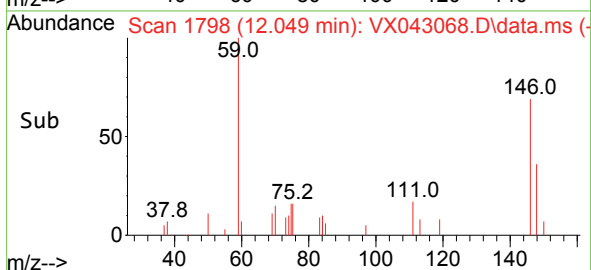
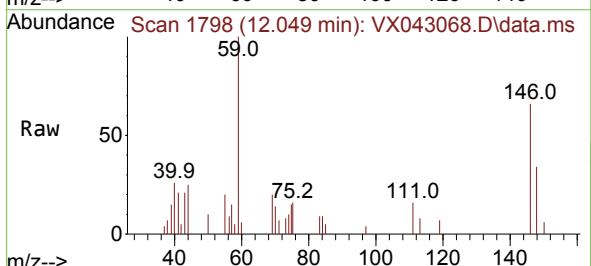
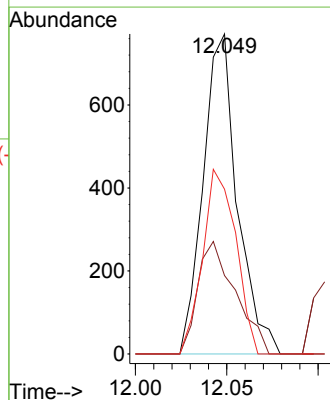
Tgt Ion:146 Resp: 1004

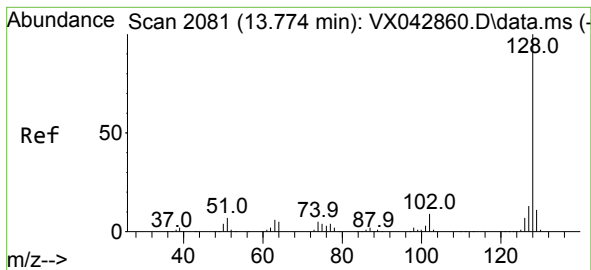
Ion Ratio Lower Upper

146 100

111 38.7 21.0 63.0

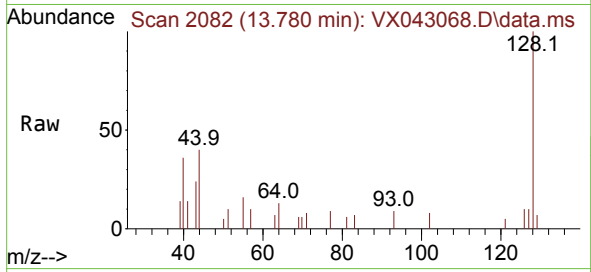
148 56.0 30.8 92.4





#91
Naphthalene
Concen: 0.288 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX043068.D
Acq: 16 Aug 2024 12:05

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	4.4	8.8	13.2#

