

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071423\
 Data File : VX036543.D
 Acq On : 13 Jul 2023 22:14
 Operator : JC/MD
 Sample : 03596-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 14 04:39:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 04:32:22 2023
 Response via : Initial Calibration

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

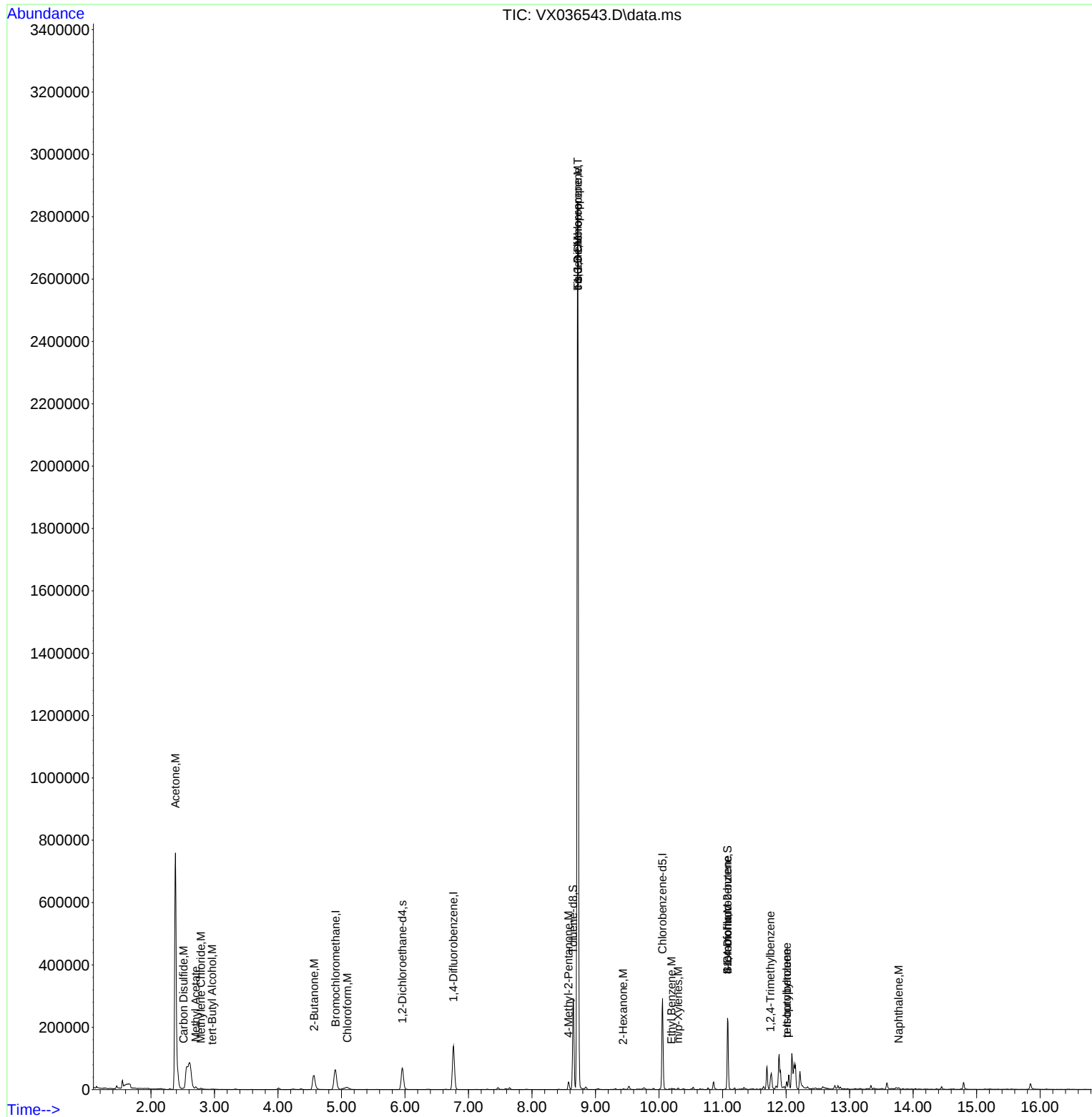
Internal Standards						
1) Bromochloromethane	4.910	128	26850	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	137866	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	130494	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	64826	29.090	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.967%		
60) 4-Bromofluorobenzene	11.079	95	61910	29.248	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.500%		
63) Toluene-d8	8.647	98	174629	29.081	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.933%		
Target Compounds						
					Qvalue	
12) Methyl Acetate	2.703	43	7807	2.114	ug/l #	82
15) Acetone	2.386	58	262535	895.742	ug/l	96
16) Carbon Disulfide	2.514	76	3813	1.000	ug/l #	94
18) Methylene Chloride	2.788	84	1418	0.749	ug/l #	92
23) tert-Butyl Alcohol	2.965	59	281	0.585	ug/l #	1
25) Chloroform	5.092	83	1237	0.361	ug/l	90
30) 2-Butanone	4.568	43	82365	62.921	ug/l	99
48) t-1,3-Dichloropropene	8.720	75	13146	5.249	ug/l #	1
49) cis-1,3-Dichloropropene	8.720	75	13146	4.859	ug/l #	1
56) Bromoform	11.079	173	441	0.368	ug/l #	1
58) 4-Methyl-2-Pentanone	8.573	43	14842	5.500	ug/l	99
59) 2-Hexanone	9.433	43	1352	0.659	ug/l #	82
62) Toluene	8.720	91	1823838	249.099	ug/l	98
66) Ethyl Benzene	10.195	91	1979	0.249	ug/l #	85
67) m/p-Xylenes	10.299	106	1358	0.438	ug/l	91
77) t-1,4-Dichloro-2-butene	11.079	75	31318	36.773	ug/l #	7
79) tert-butylbenzene	12.012	119	8347	1.335	ug/l	66
80) 1,2,4-Trimethylbenzene	11.756	105	7302	1.118	ug/l	46
82) p-Isopropyltoluene	12.012	119	8347	1.274	ug/l	96
91) Naphthalene	13.774	128	2748	0.351	ug/l #	93

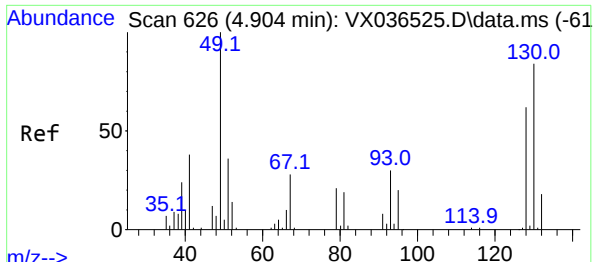
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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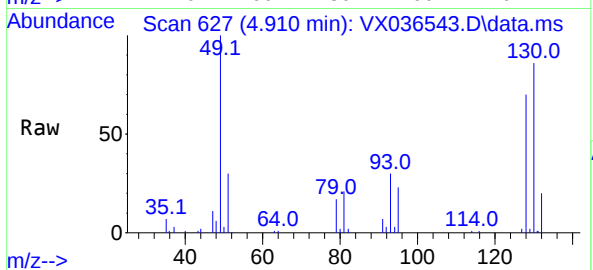
Quant Time: Jul 14 04:39:25 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 14 04:32:22 2023
Response via : Initial Calibration



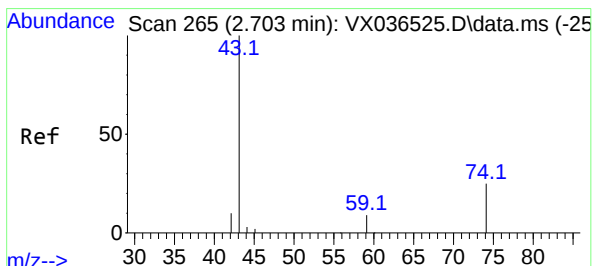
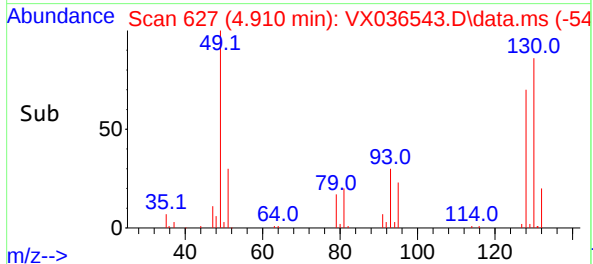
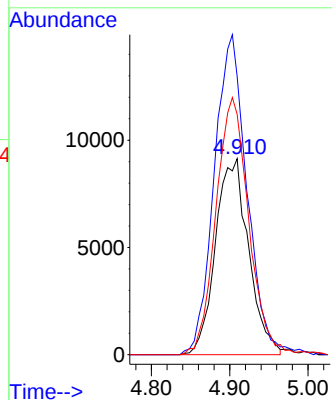


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.910 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX036543.D
Acq: 13 Jul 2023 22:14

Instrument :
MSVOA_X
ClientSampleId :

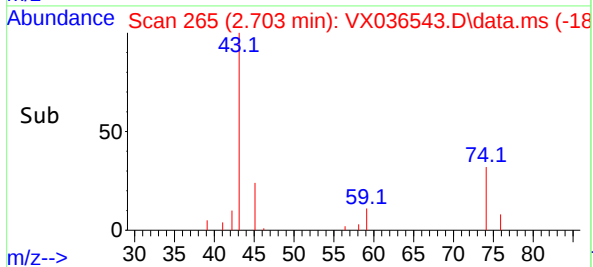
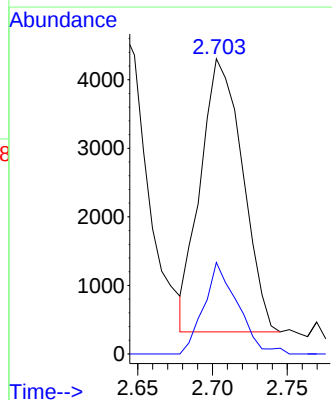
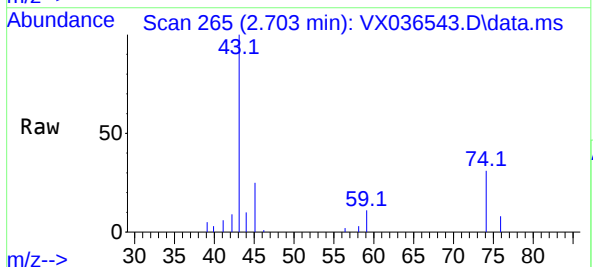


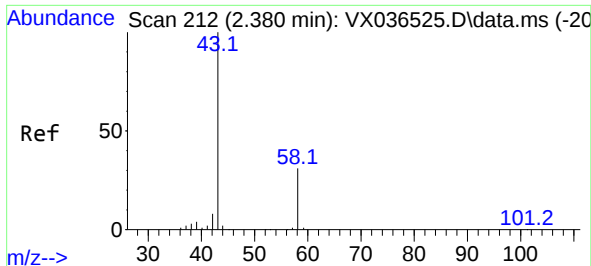
Tgt Ion:128 Resp: 26850
Ion Ratio Lower Upper
128 100
49 161.8 0.0 406.3
130 129.6 0.0 328.0



#12
Methyl Acetate
Concen: 2.114 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX036543.D
Acq: 13 Jul 2023 22:14

Tgt Ion: 43 Resp: 7807
Ion Ratio Lower Upper
43 100
74 34.7 20.3 30.5#





#15

Acetone

Concen: 895.742 ug/l

RT: 2.386 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX036543.D

Acq: 13 Jul 2023 22:14

Instrument :

MSVOA_X

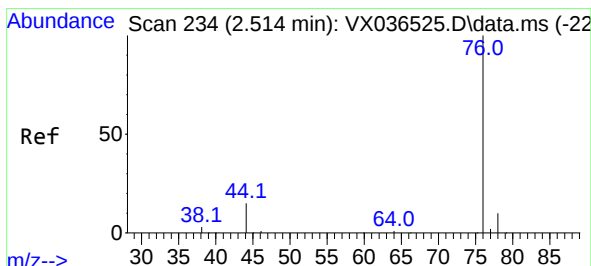
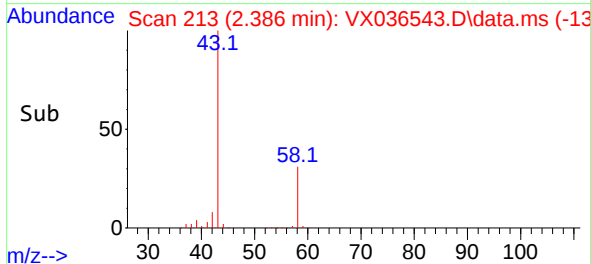
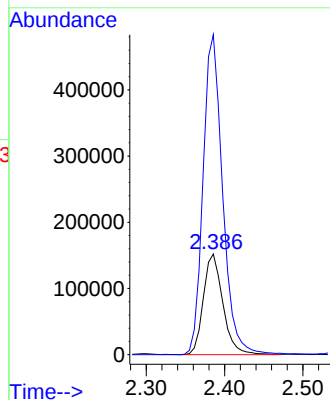
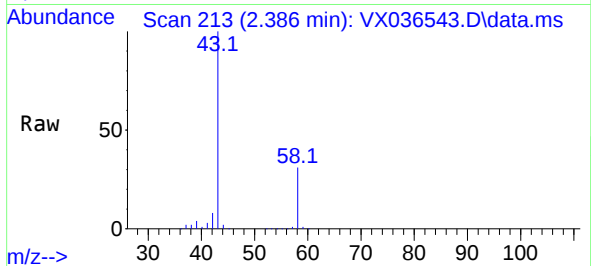
ClientSampleId :

Tgt Ion: 58 Resp: 262535

Ion Ratio Lower Upper

58 100

43 318.3 261.0 391.4



#16

Carbon Disulfide

Concen: 1.000 ug/l

RT: 2.514 min Scan# 234

Delta R.T. -0.000 min

Lab File: VX036543.D

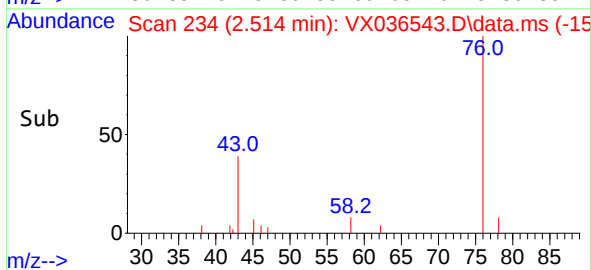
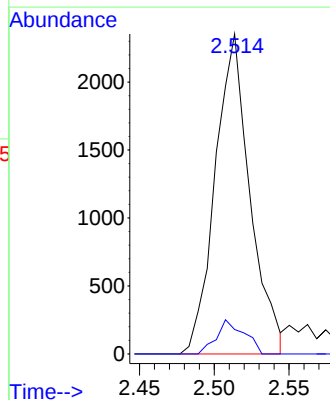
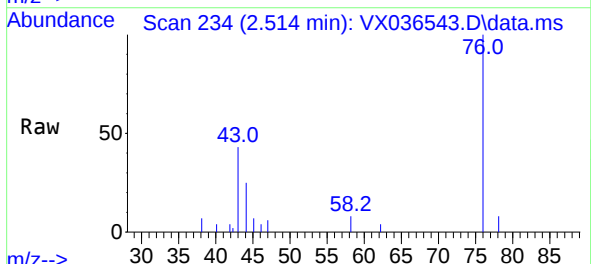
Acq: 13 Jul 2023 22:14

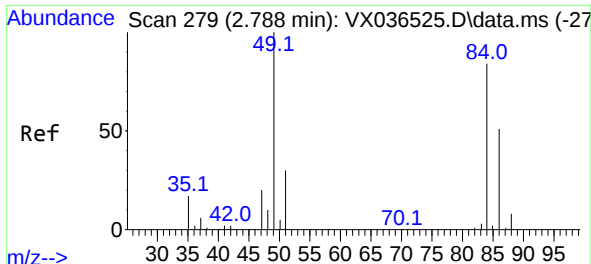
Tgt Ion: 76 Resp: 3813

Ion Ratio Lower Upper

76 100

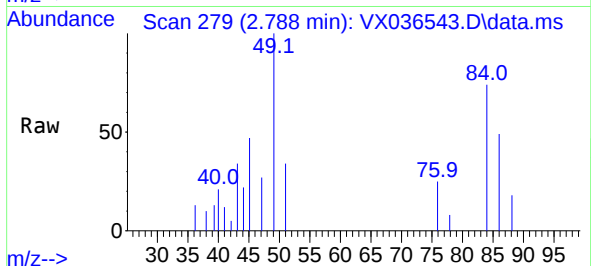
78 7.6 8.0 12.0#





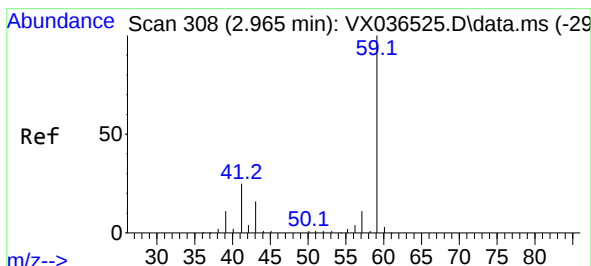
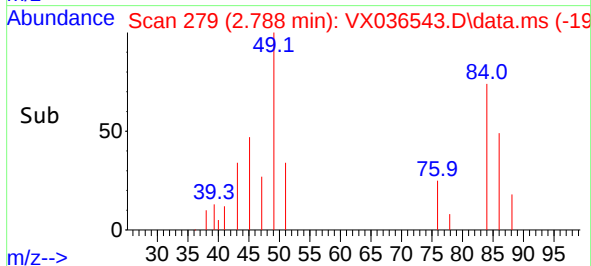
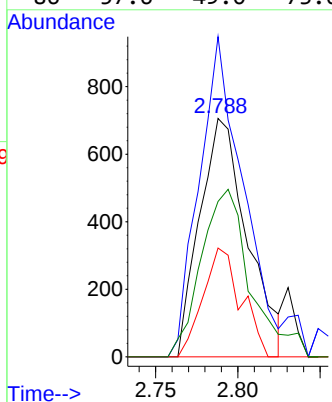
#18
Methylene Chloride
Concen: 0.749 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX036543.D
Acq: 13 Jul 2023 22:14

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion: 84 Resp: 1418

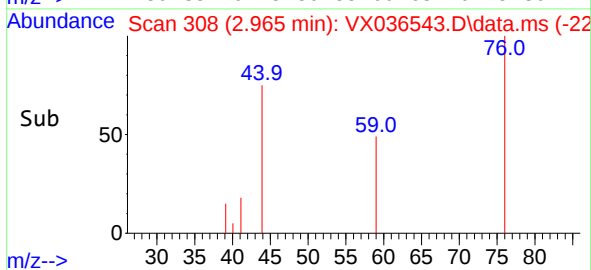
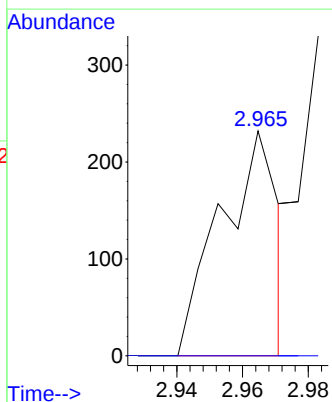
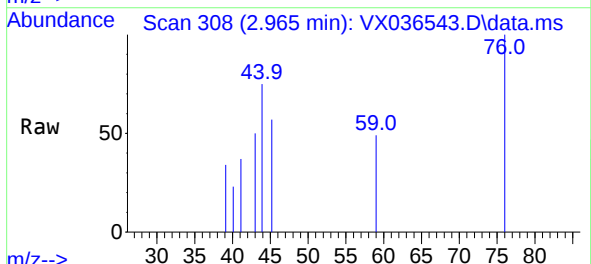
Ion	Ratio	Lower	Upper
84	100		
49	127.1	95.4	143.0
51	45.6	28.3	42.5#
86	57.6	49.0	73.6

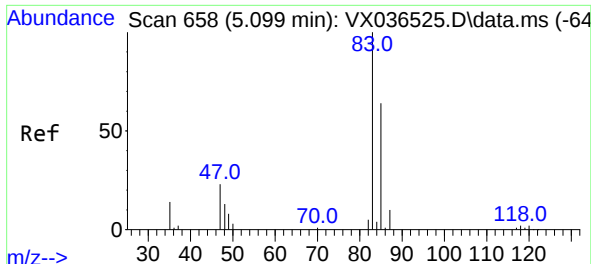


#23
tert-Butyl Alcohol
Concen: 0.585 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.000 min
Lab File: VX036543.D
Acq: 13 Jul 2023 22:14

Tgt Ion: 59 Resp: 281

Ion	Ratio	Lower	Upper
59	100		
52	0.0	142.6	213.8#

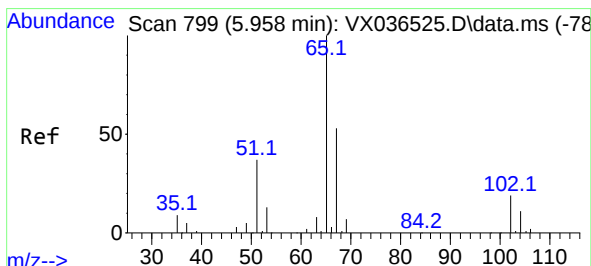
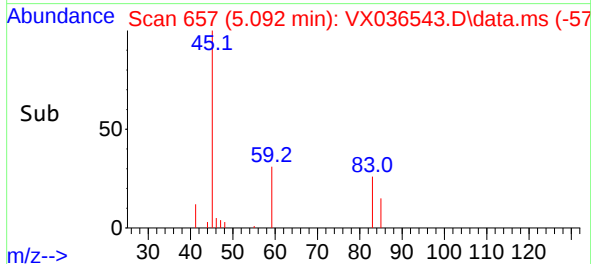
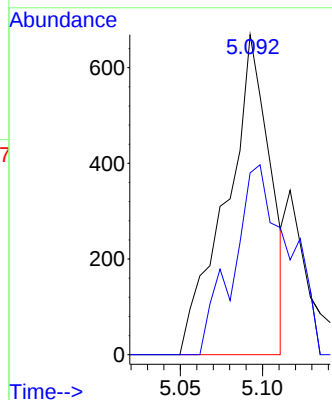
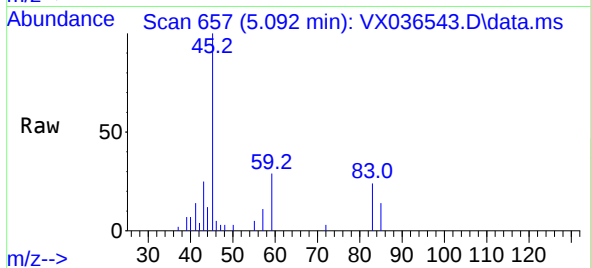




#25
Chloroform
Concen: 0.361 ug/l
RT: 5.092 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX036543.D
Acq: 13 Jul 2023 22:14

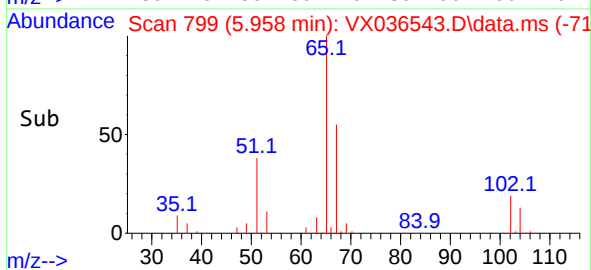
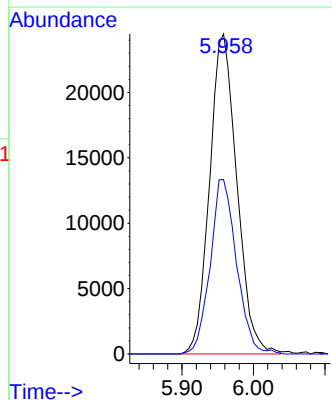
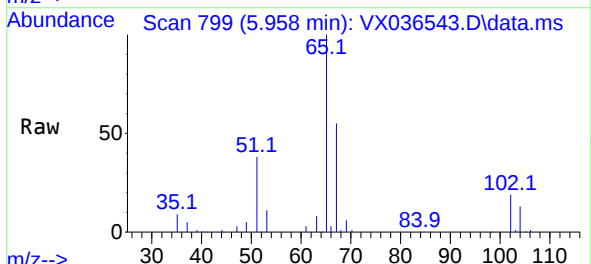
Instrument :
MSVOA_X
ClientSampleId :

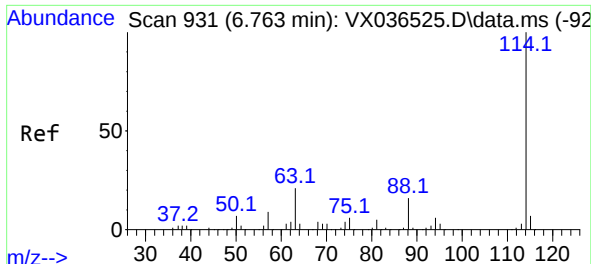
Tgt Ion: 83 Resp: 1237
Ion Ratio Lower Upper
83 100
85 56.8 51.5 77.3



#27
1,2-Dichloroethane-d4
Concen: 29.090 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX036543.D
Acq: 13 Jul 2023 22:14

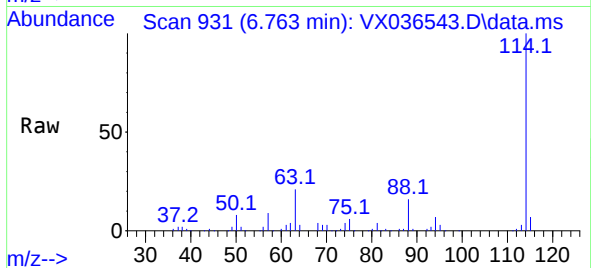
Tgt Ion: 65 Resp: 64826
Ion Ratio Lower Upper
65 100
67 52.4 42.1 63.1



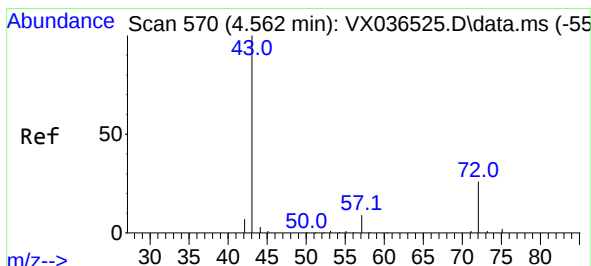
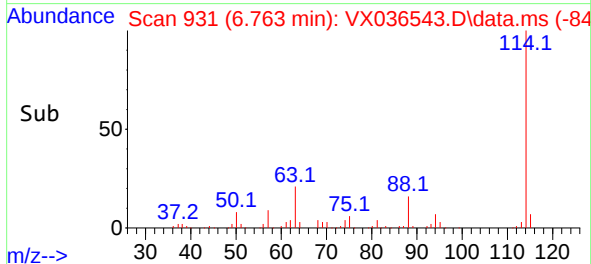
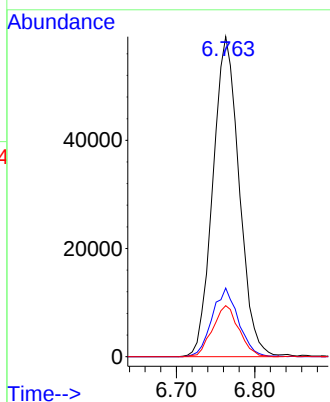


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX036543.D
Acq: 13 Jul 2023 22:14

Instrument :
MSVOA_X
ClientSampleId :

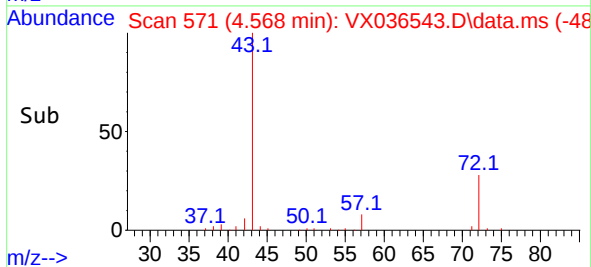
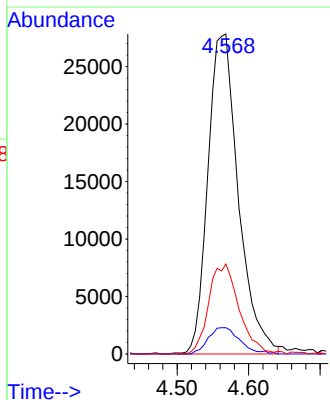
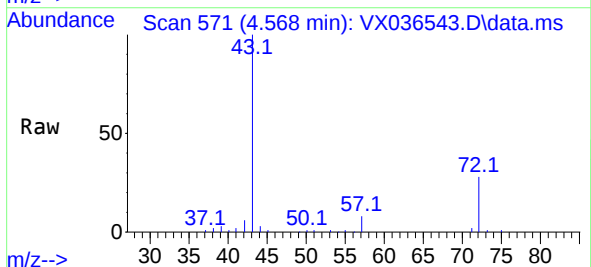


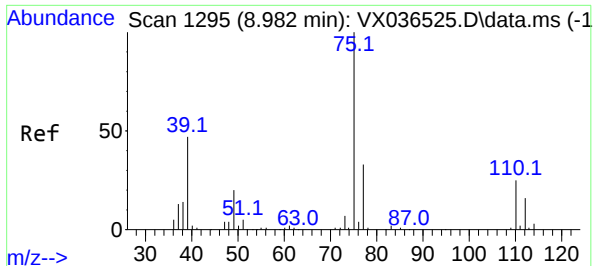
Tgt Ion:114 Resp: 137866
Ion Ratio Lower Upper
114 100
63 21.5 16.6 24.8
88 15.9 12.9 19.3



#30
2-Butanone
Concen: 62.921 ug/l
RT: 4.568 min Scan# 571
Delta R.T. 0.006 min
Lab File: VX036543.D
Acq: 13 Jul 2023 22:14

Tgt Ion: 43 Resp: 82365
Ion Ratio Lower Upper
43 100
57 8.3 6.4 9.6
72 27.8 21.6 32.4





#48

t-1,3-Dichloropropene

Concen: 5.249 ug/l

RT: 8.720 min Scan# 11

Delta R.T. -0.262 min

Lab File: VX036543.D

Acq: 13 Jul 2023 22:14

Instrument :

MSVOA_X

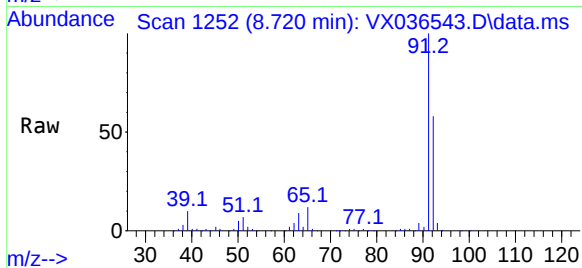
ClientSampleId :

Tgt Ion: 75 Resp: 13146

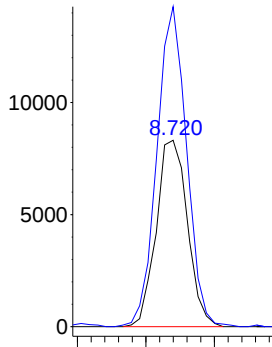
Ion Ratio Lower Upper

75 100

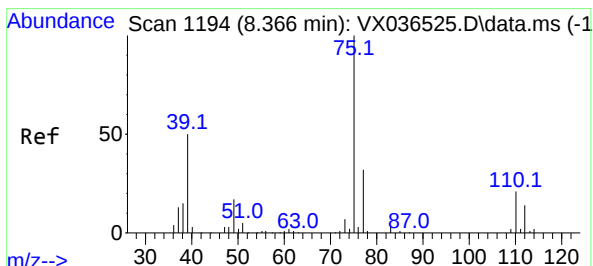
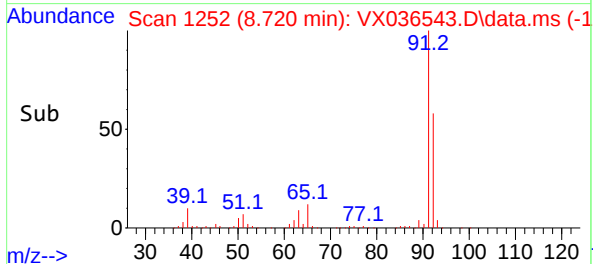
77 170.8 26.8 40.2#



Abundance



Time-->



#49

cis-1,3-Dichloropropene

Concen: 4.859 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.353 min

Lab File: VX036543.D

Acq: 13 Jul 2023 22:14

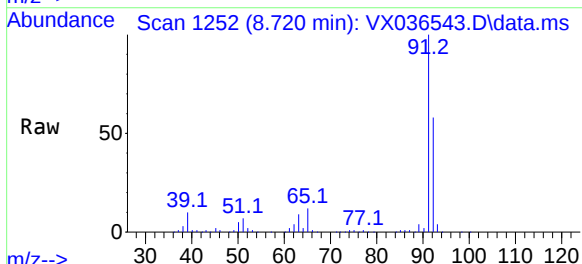
Tgt Ion: 75 Resp: 13146

Ion Ratio Lower Upper

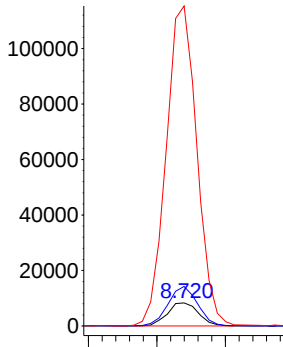
75 100

77 170.8 25.4 38.2#

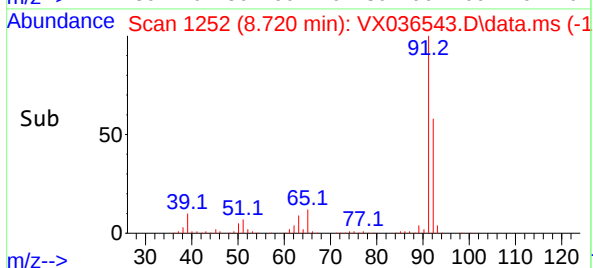
39 1383.7 40.2 60.4#

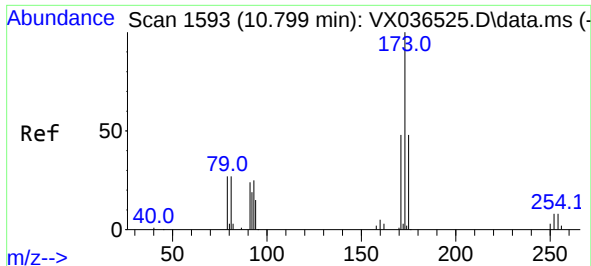


Abundance



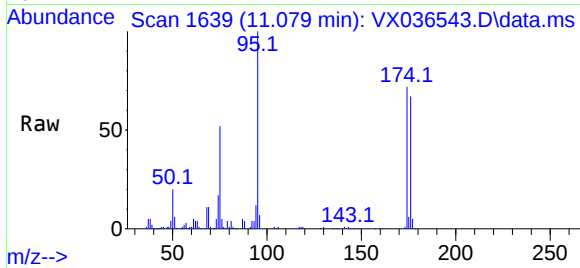
Time-->



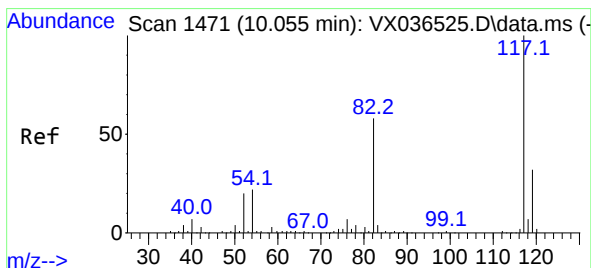
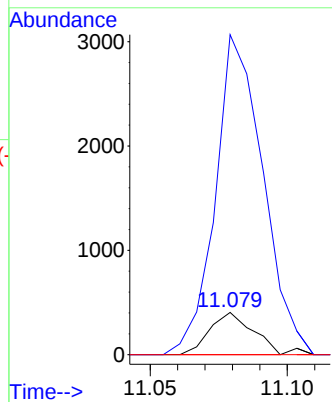
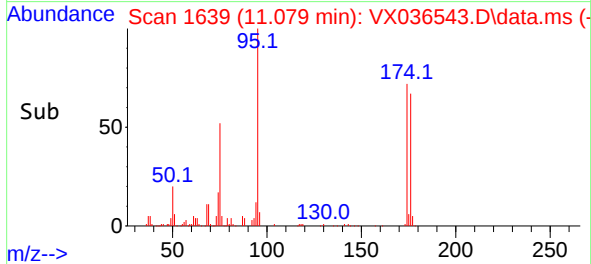


#56
Bromoform
Concen: 0.368 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.280 min
Lab File: VX036543.D
Acq: 13 Jul 2023 22:14

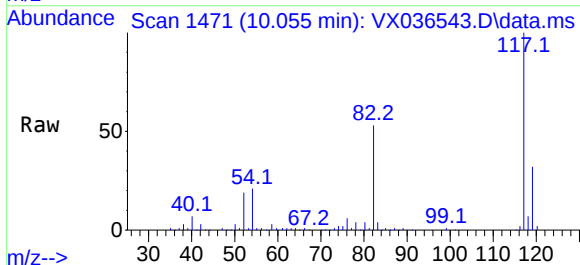
Instrument :
MSVOA_X
ClientSampleId :



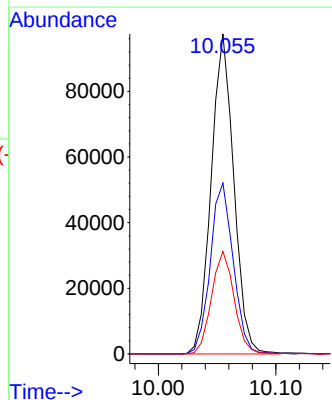
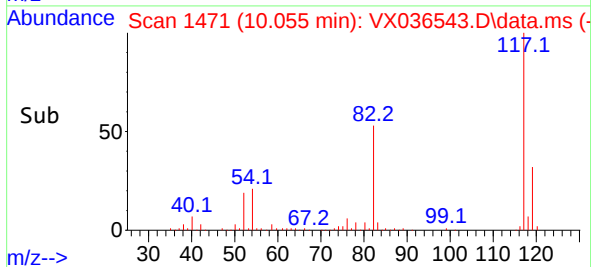
Tgt Ion:173 Resp: 441
Ion Ratio Lower Upper
173 100
175 840.1 38.1 57.1#
254 0.0 6.7 10.1#

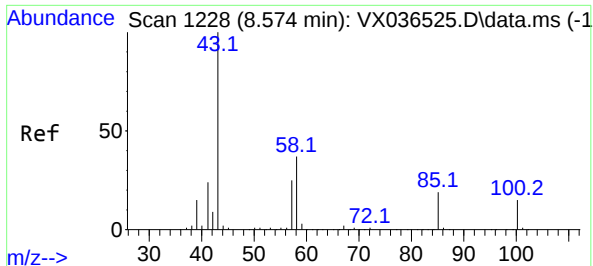


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX036543.D
Acq: 13 Jul 2023 22:14



Tgt Ion:117 Resp: 130494
Ion Ratio Lower Upper
117 100
82 54.2 44.7 67.1
119 32.3 25.6 38.4





#58

4-Methyl-2-Pentanone

Concen: 5.500 ug/l

RT: 8.573 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX036543.D

Acq: 13 Jul 2023 22:14

Instrument :

MSVOA_X

ClientSampleId :

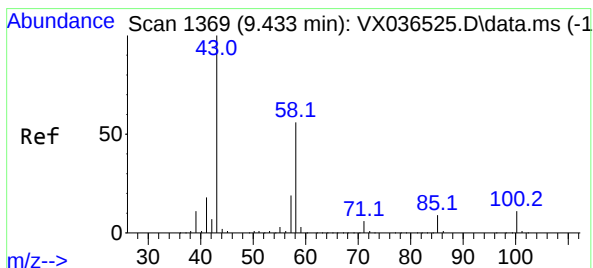
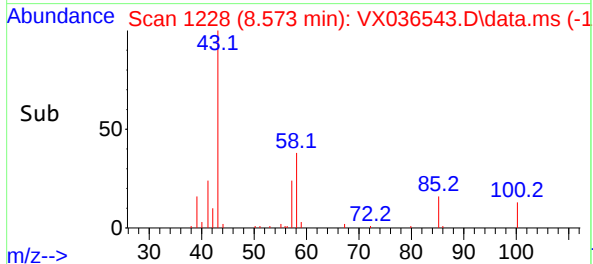
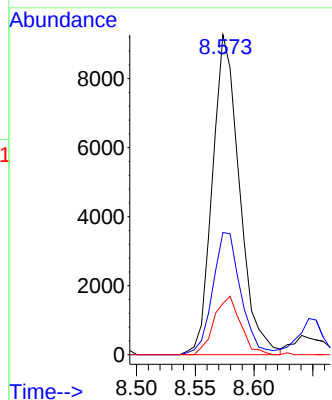
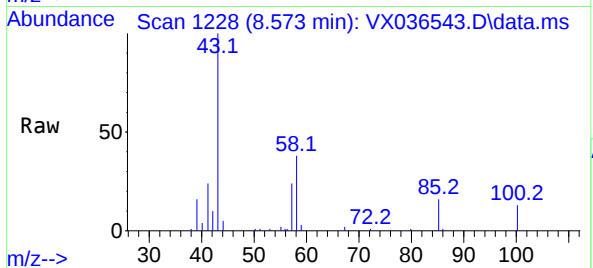
Tgt Ion: 43 Resp: 14842

Ion Ratio Lower Upper

43 100

58 39.8 30.9 46.3

85 17.8 14.4 21.6



#59

2-Hexanone

Concen: 0.659 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. -0.000 min

Lab File: VX036543.D

Acq: 13 Jul 2023 22:14

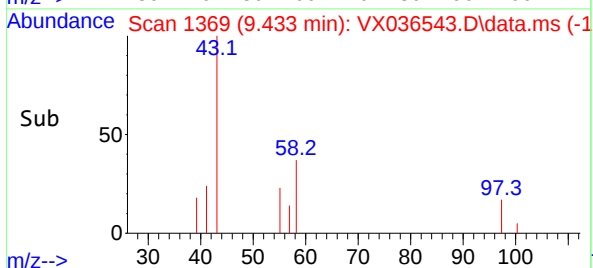
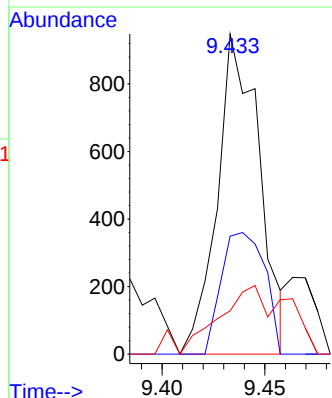
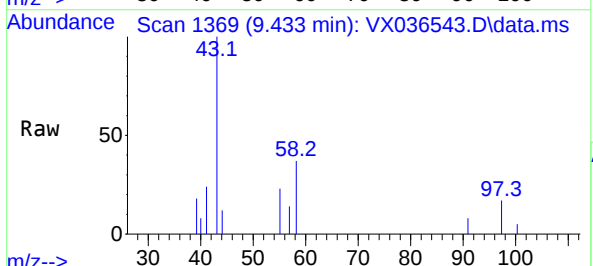
Tgt Ion: 43 Resp: 1352

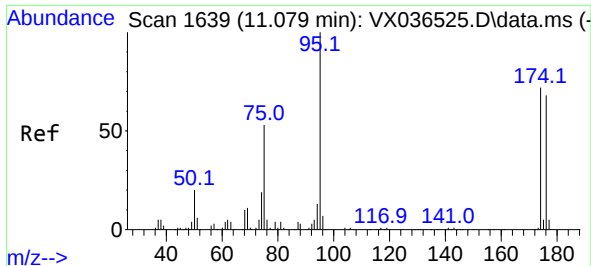
Ion Ratio Lower Upper

43 100

58 39.1 43.4 65.2#

57 23.3 15.1 22.7#

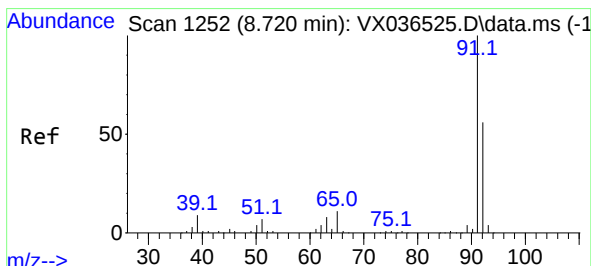
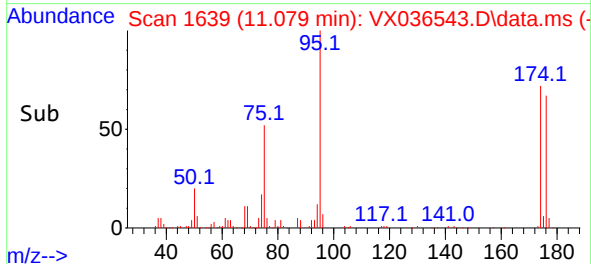
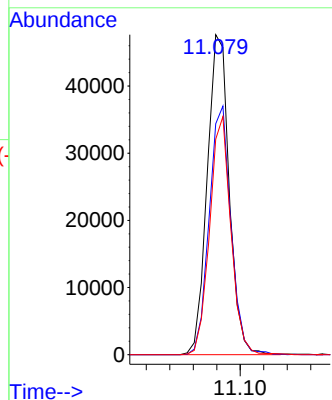
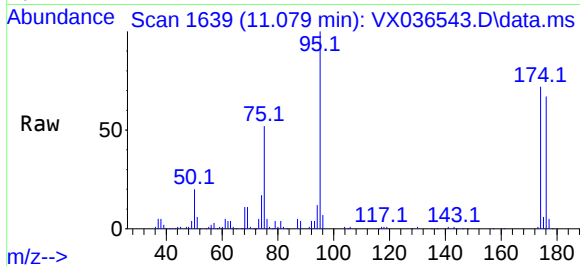




#60
4-Bromofluorobenzene
Concen: 29.248 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX036543.D
Acq: 13 Jul 2023 22:14

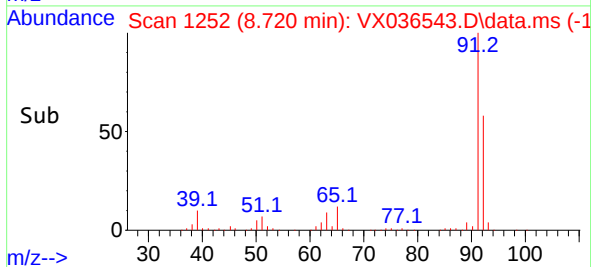
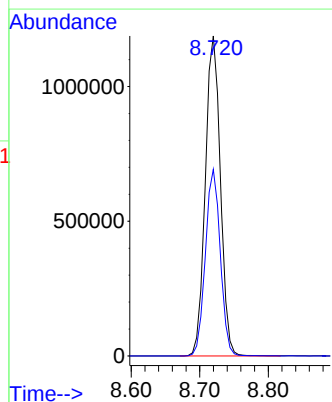
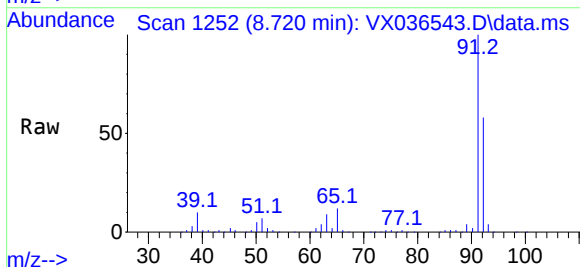
Instrument :
MSVOA_X
ClientSampleId :

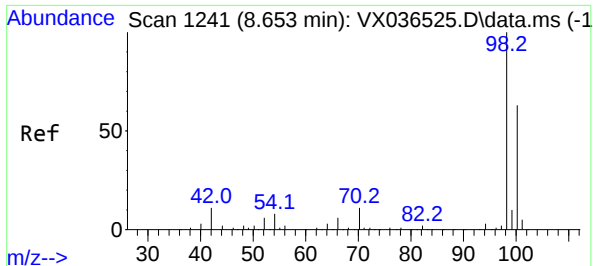
Tgt Ion: 95 Resp: 61910
Ion Ratio Lower Upper
95 100
174 76.4 60.5 90.7
176 70.7 58.2 87.4



#62
Toluene
Concen: 249.099 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX036543.D
Acq: 13 Jul 2023 22:14

Tgt Ion: 91 Resp: 1823838
Ion Ratio Lower Upper
91 100
92 57.4 44.9 67.3





#63

Toluene-d8

Concen: 29.081 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX036543.D

Acq: 13 Jul 2023 22:14

Instrument :

MSVOA_X

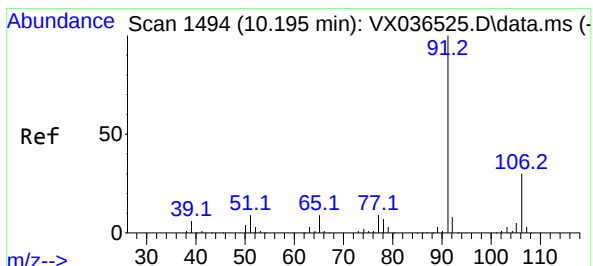
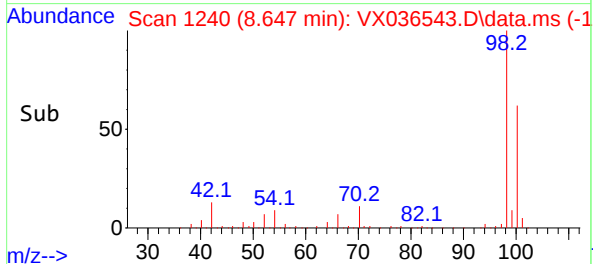
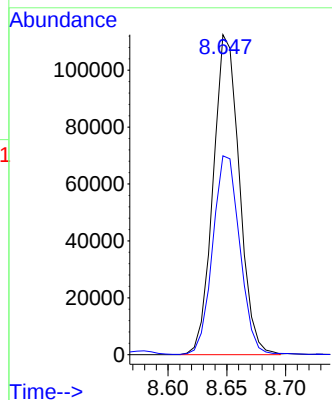
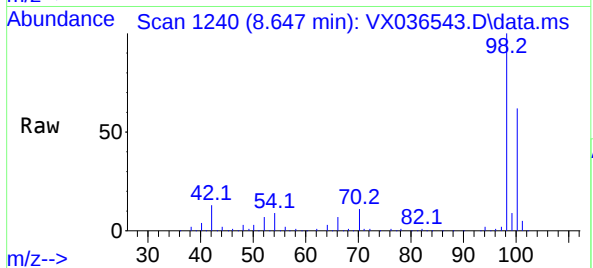
ClientSampleId :

Tgt Ion: 98 Resp: 174629

Ion Ratio Lower Upper

98 100

100 64.1 51.6 77.4



#66

Ethyl Benzene

Concen: 0.249 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. -0.000 min

Lab File: VX036543.D

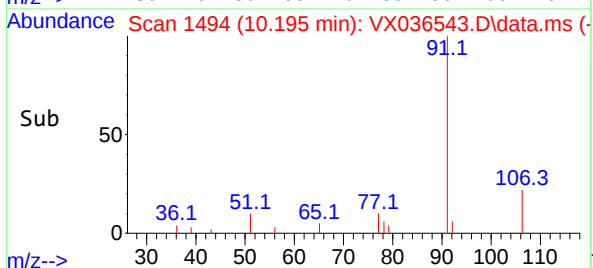
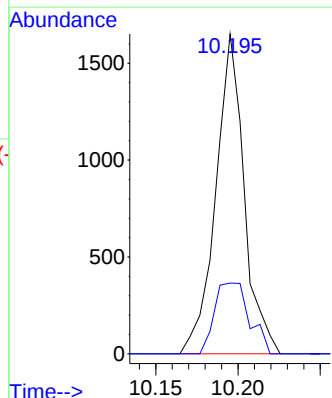
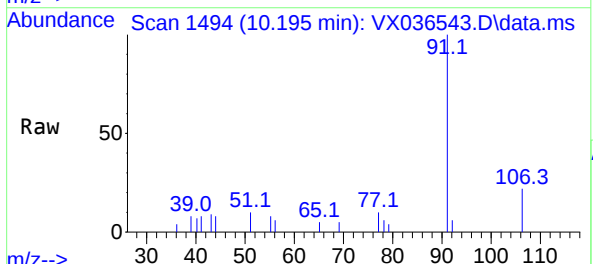
Acq: 13 Jul 2023 22:14

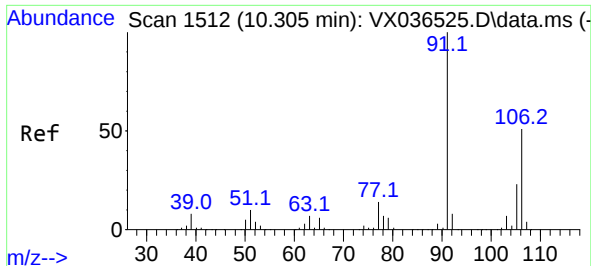
Tgt Ion: 91 Resp: 1979

Ion Ratio Lower Upper

91 100

106 22.1 24.2 36.4#

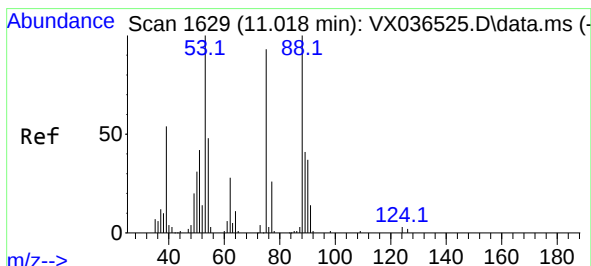
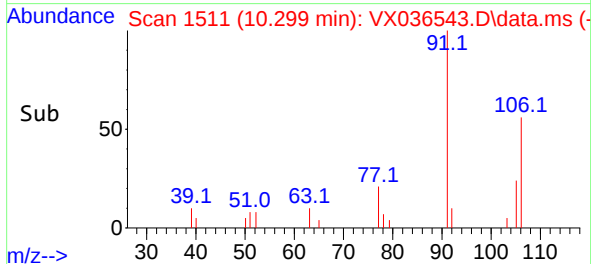
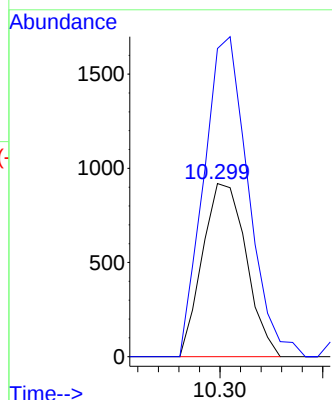
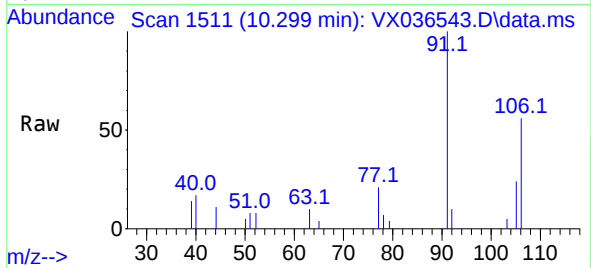




#67
m/p-Xylenes
Concen: 0.438 ug/l
RT: 10.299 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX036543.D
Acq: 13 Jul 2023 22:14

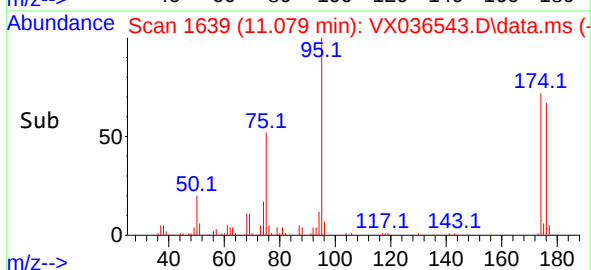
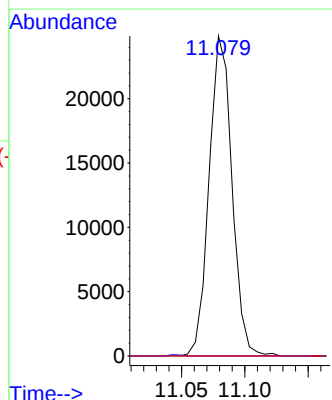
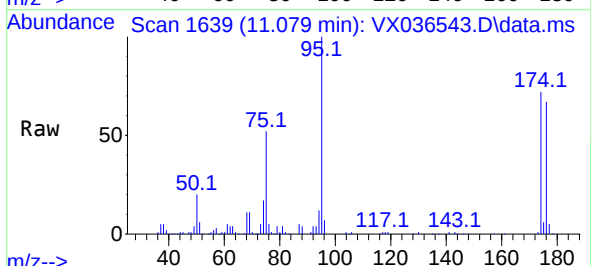
Instrument :
MSVOA_X
ClientSampleId :

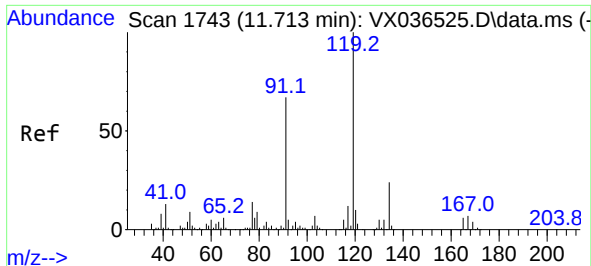
Tgt Ion:106 Resp: 1358
Ion Ratio Lower Upper
106 100
91 187.6 160.5 240.7



#77
t-1,4-Dichloro-2-butene
Concen: 36.773 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX036543.D
Acq: 13 Jul 2023 22:14

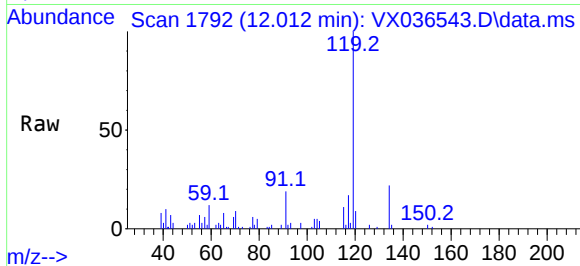
Tgt Ion: 75 Resp: 31318
Ion Ratio Lower Upper
75 100
53 0.0 53.9 161.7#
89 0.0 22.1 66.1#



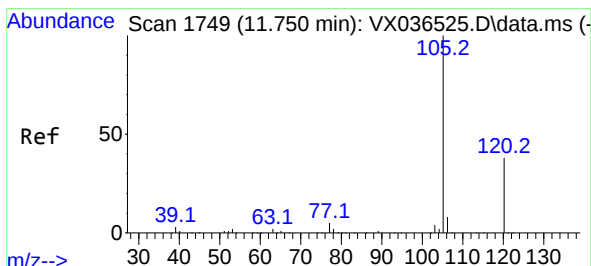
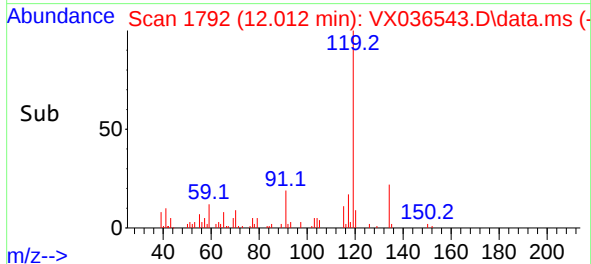
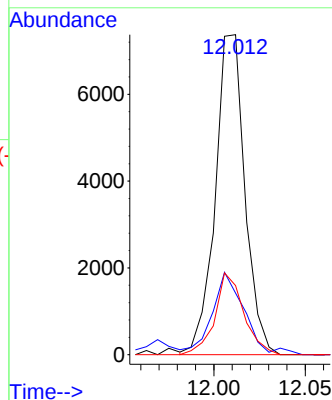


#79
tert-butylbenzene
Concen: 1.335 ug/l
RT: 12.012 min Scan# 11
Delta R.T. 0.299 min
Lab File: VX036543.D
Acq: 13 Jul 2023 22:14

Instrument :
MSVOA_X
ClientSampleId :

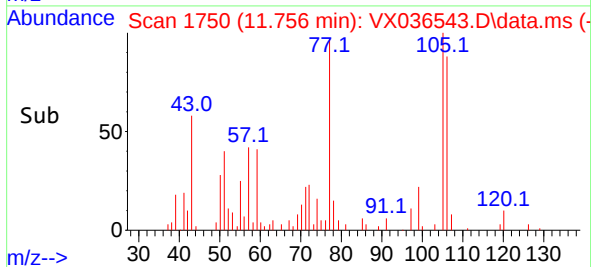
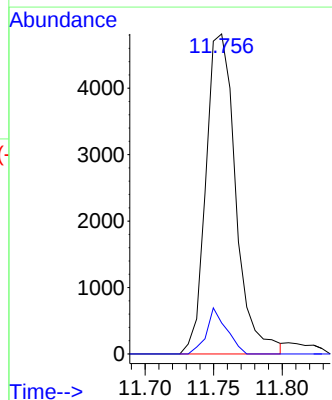
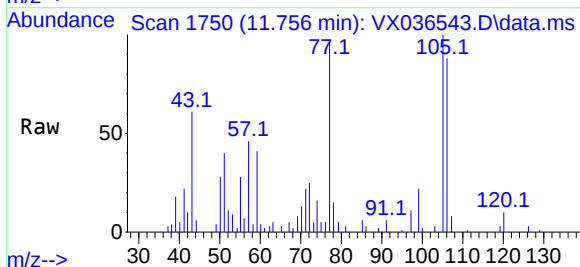


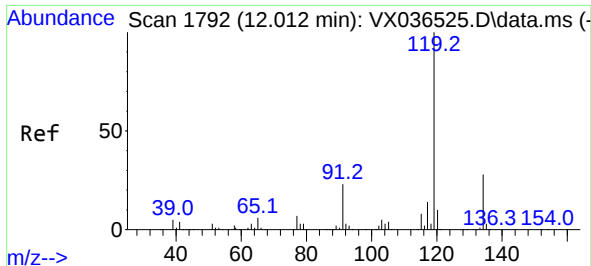
Tgt Ion:119 Resp: 8347
Ion Ratio Lower Upper
119 100
91 26.9 0.0 124.4
134 24.8 0.0 47.2



#80
1,2,4-Trimethylbenzene
Concen: 1.118 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX036543.D
Acq: 13 Jul 2023 22:14

Tgt Ion:105 Resp: 7302
Ion Ratio Lower Upper
105 100
120 9.6 0.0 90.2





#82

p-Isopropyltoluene

Concen: 1.274 ug/l

RT: 12.012 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX036543.D

Acq: 13 Jul 2023 22:14

Instrument :

MSVOA_X

ClientSampleId :

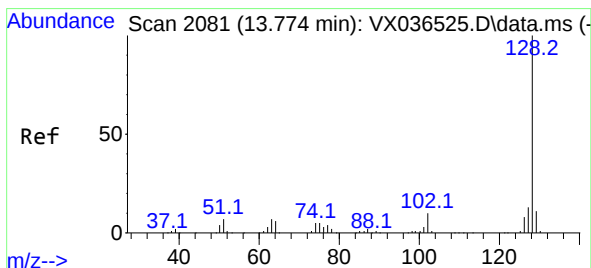
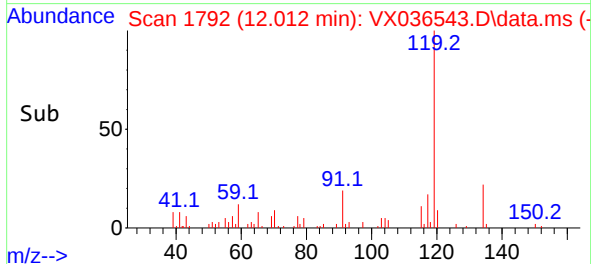
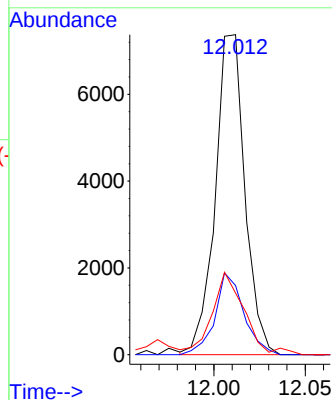
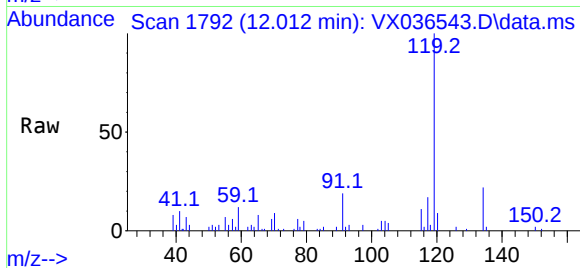
Tgt Ion:119 Resp: 8347

Ion Ratio Lower Upper

119 100

134 24.8 0.0 53.2

91 26.9 0.0 49.4



#91

Naphthalene

Concen: 0.351 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX036543.D

Acq: 13 Jul 2023 22:14

Tgt Ion:128 Resp: 2748

Ion Ratio Lower Upper

128 100

127 11.1 10.3 15.5

129 7.1 8.7 13.1#

