

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071423\
 Data File : VX036542.D
 Acq On : 13 Jul 2023 21:50
 Operator : JC/MD
 Sample : 03596-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 14 04:39:12 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)

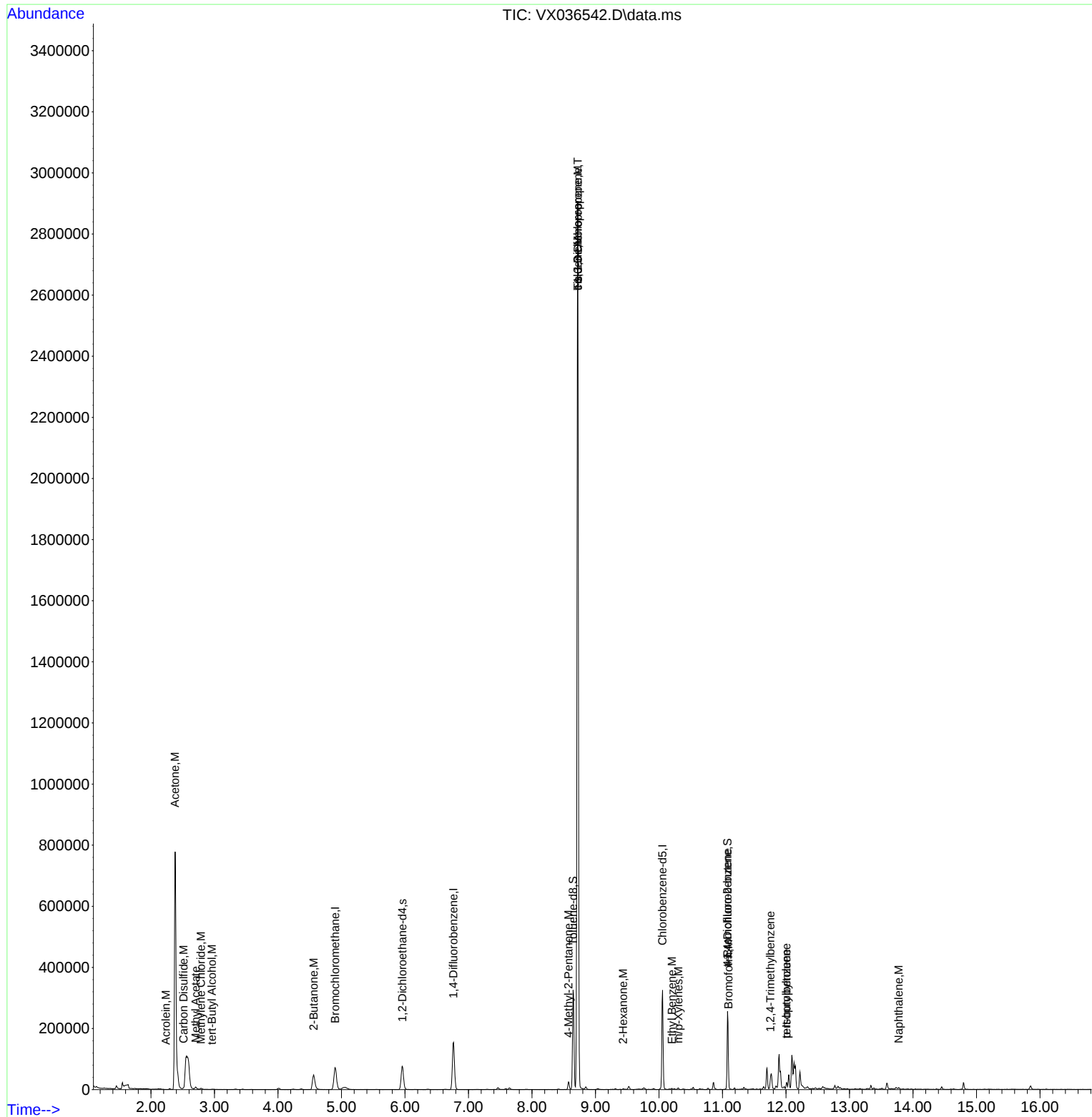
Internal Standards						
1) Bromochloromethane	4.898	128	29706	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	155871	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	142515	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	72717	29.494	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.300%		
60) 4-Bromofluorobenzene	11.079	95	67379	29.146	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.167%		
63) Toluene-d8	8.647	98	196456	29.957	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.867%		
Target Compounds						Qvalue
12) Methyl Acetate	2.703	43	9176	2.246	ug/l #	84
13) Acrolein	2.233	56	139	0.415	ug/l #	67
15) Acetone	2.380	58	258633	797.590	ug/l	97
16) Carbon Disulfide	2.514	76	3541	0.840	ug/l	98
18) Methylene Chloride	2.788	84	1433	0.685	ug/l #	94
23) tert-Butyl Alcohol	2.959	59	380	0.714	ug/l #	1
30) 2-Butanone	4.562	43	82065	55.450	ug/l	98
48) t-1,3-Dichloropropene	8.720	75	12931	4.567	ug/l #	1
49) cis-1,3-Dichloropropene	8.720	75	12931	4.227	ug/l #	1
56) Bromoform	11.092	173	777	0.573	ug/l #	1
58) 4-Methyl-2-Pentanone	8.574	43	15270	5.182	ug/l	97
59) 2-Hexanone	9.433	43	1582	0.706	ug/l #	84
62) Toluene	8.720	91	1833863	229.341	ug/l	98
66) Ethyl Benzene	10.201	91	1836	0.211	ug/l	91
67) m/p-Xylenes	10.305	106	1372	0.405	ug/l	99
77) t-1,4-Dichloro-2-butene	11.079	75	34925	37.550	ug/l #	7
79) tert-butylbenzene	12.006	119	7862	1.151	ug/l	65
80) 1,2,4-Trimethylbenzene	11.756	105	7196	1.009	ug/l	48
82) p-Isopropyltoluene	12.006	119	7862	1.099	ug/l	97
91) Naphthalene	13.774	128	2834	0.332	ug/l #	90

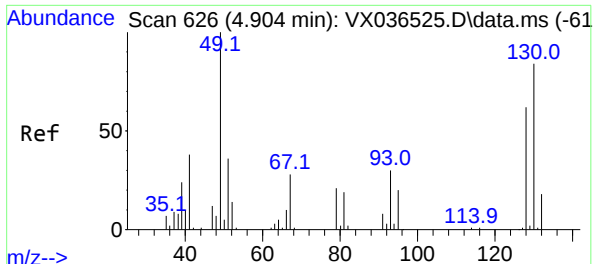
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 14 04:39:12 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
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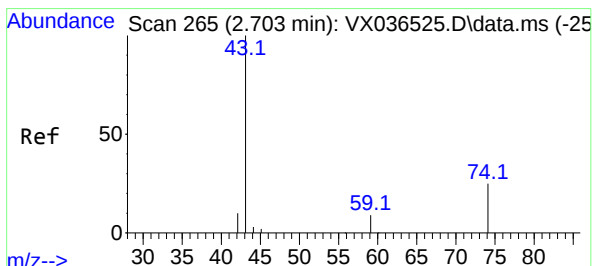
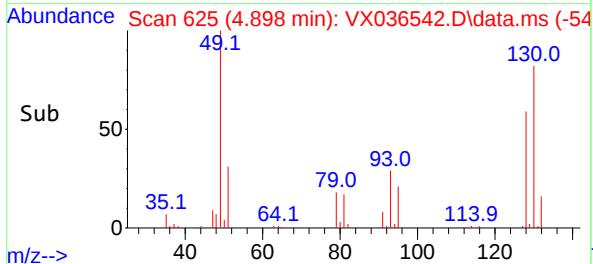
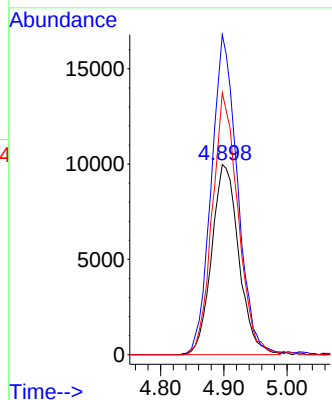
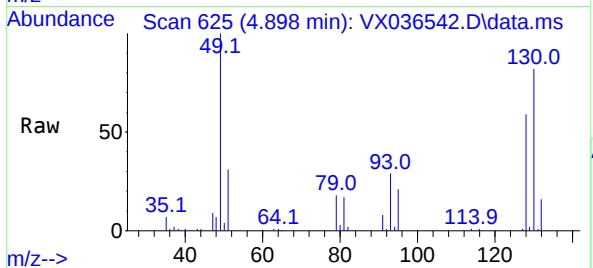




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.898 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX036542.D
Acq: 13 Jul 2023 21:50

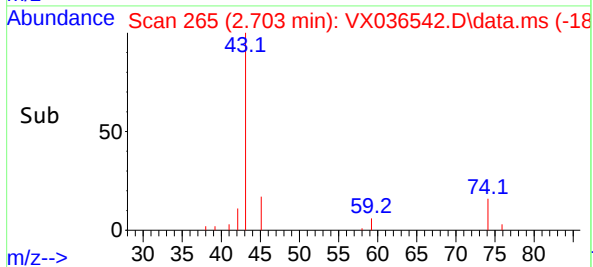
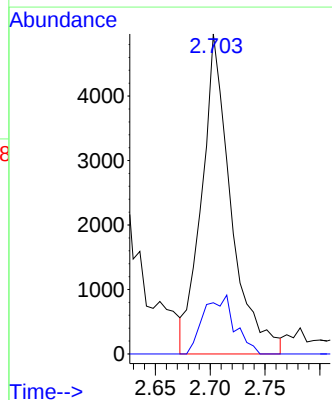
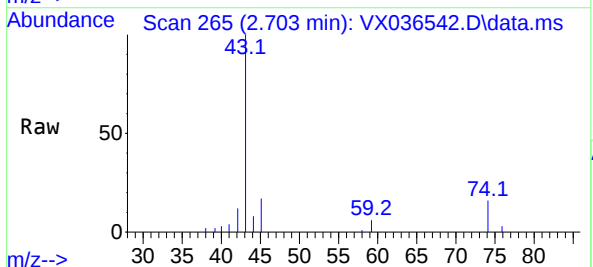
Instrument :
MSVOA_X
ClientSampleId :

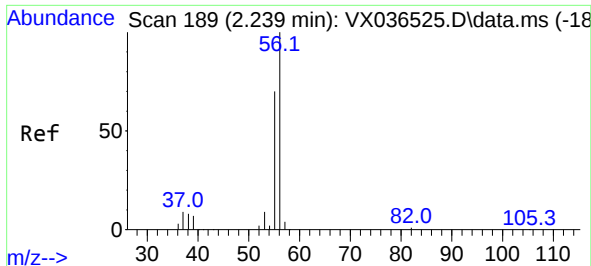
Tgt Ion:128 Resp: 29706
Ion Ratio Lower Upper
128 100
49 162.0 0.0 406.3
130 130.7 0.0 328.0



#12
Methyl Acetate
Concen: 2.246 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX036542.D
Acq: 13 Jul 2023 21:50

Tgt Ion: 43 Resp: 9176
Ion Ratio Lower Upper
43 100
74 17.4 20.3 30.5#

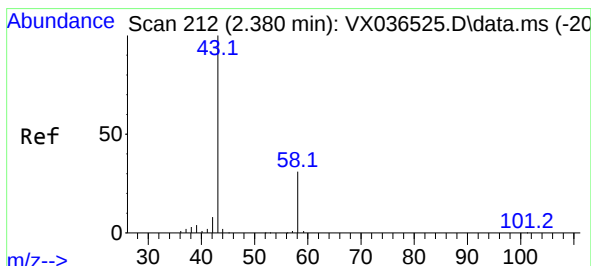
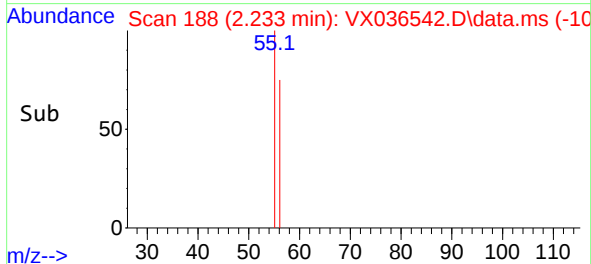
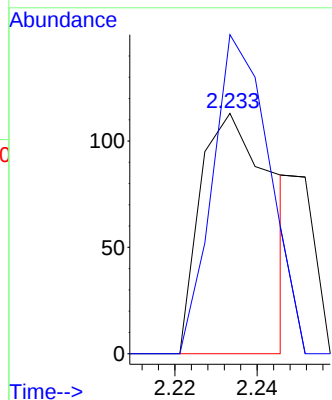
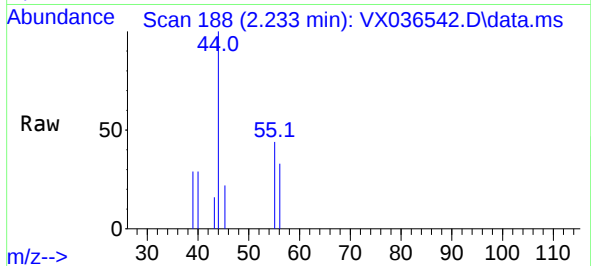




#13
Acrolein
Concen: 0.415 ug/l
RT: 2.233 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX036542.D
Acq: 13 Jul 2023 21:50

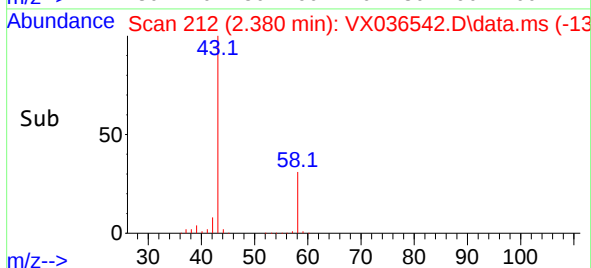
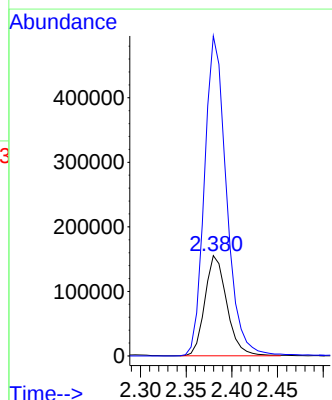
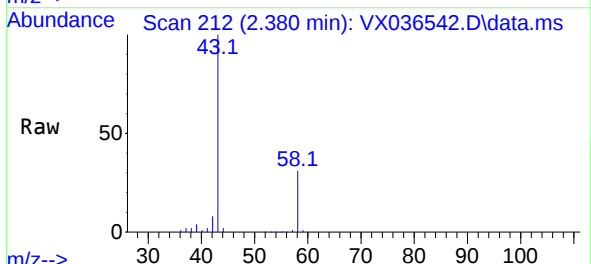
Instrument :
MSVOA_X
ClientSampleId :

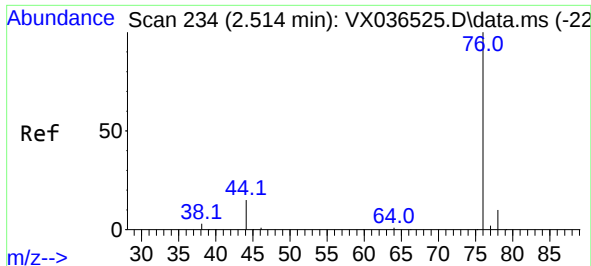
Tgt Ion: 56 Resp: 139
Ion Ratio Lower Upper
56 100
55 102.9 59.7 89.5#



#15
Acetone
Concen: 797.590 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX036542.D
Acq: 13 Jul 2023 21:50

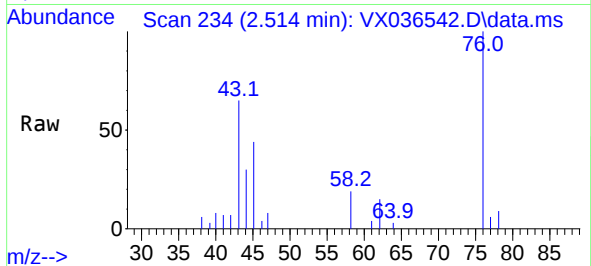
Tgt Ion: 58 Resp: 258633
Ion Ratio Lower Upper
58 100
43 319.4 261.0 391.4



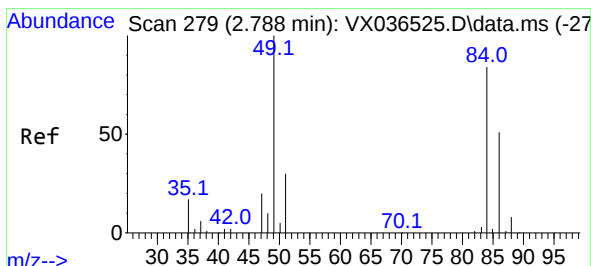
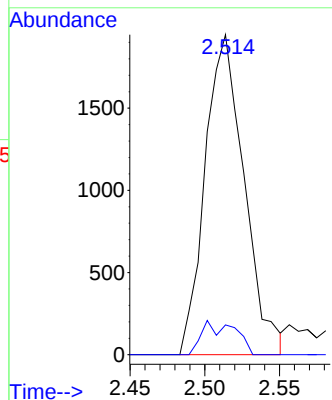
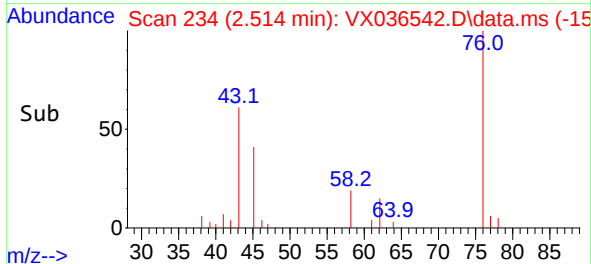


#16
Carbon Disulfide
Concen: 0.840 ug/l
RT: 2.514 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX036542.D
Acq: 13 Jul 2023 21:50

Instrument :
MSVOA_X
ClientSampleId :

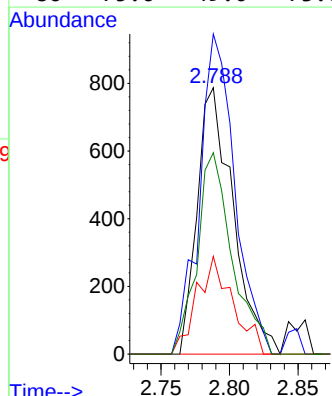
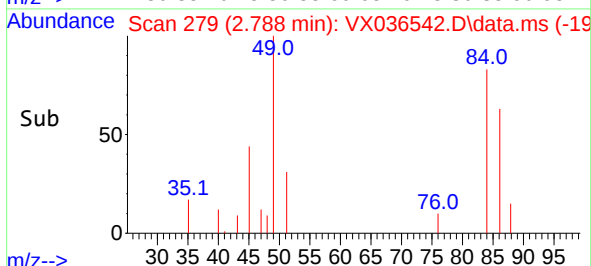
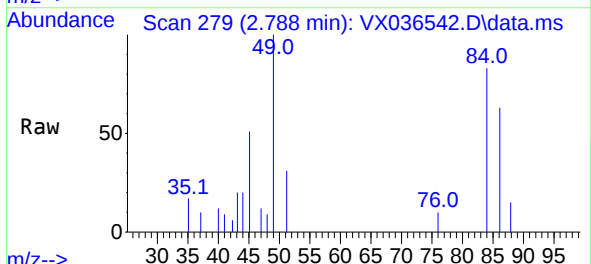


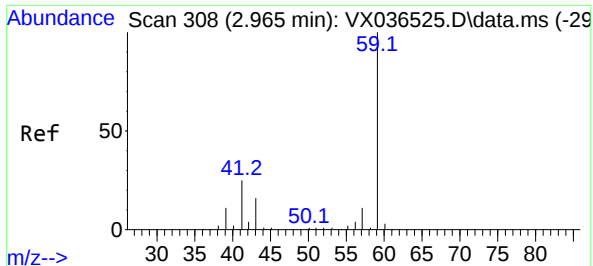
Tgt Ion: 76 Resp: 3541
Ion Ratio Lower Upper
76 100
78 9.3 8.0 12.0



#18
Methylene Chloride
Concen: 0.685 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX036542.D
Acq: 13 Jul 2023 21:50

Tgt Ion: 84 Resp: 1433
Ion Ratio Lower Upper
84 100
49 120.2 95.4 143.0
51 36.7 28.3 42.5
86 75.6 49.0 73.6#

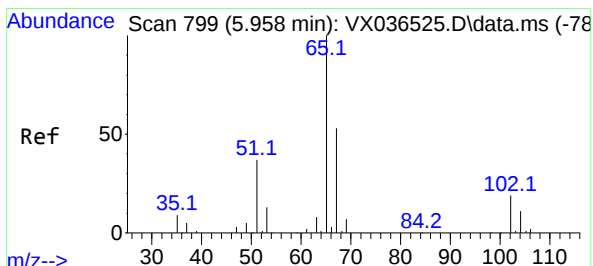
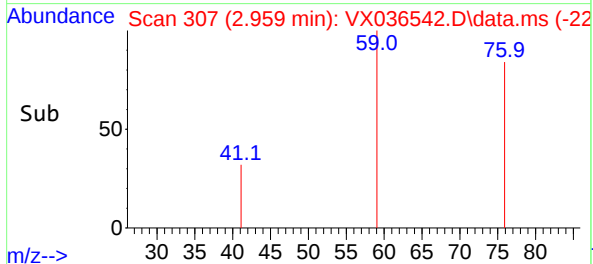
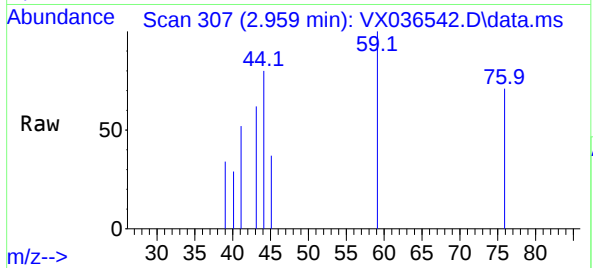




#23
tert-Butyl Alcohol
Concen: 0.714 ug/l
RT: 2.959 min Scan# 308
Delta R.T. -0.006 min
Lab File: VX036542.D
Acq: 13 Jul 2023 21:50

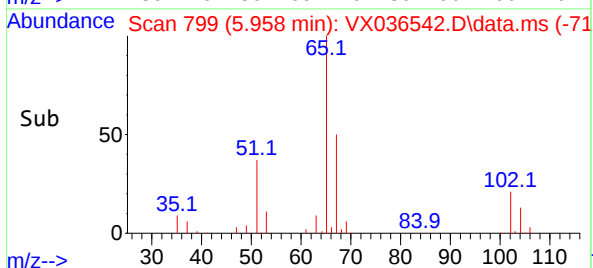
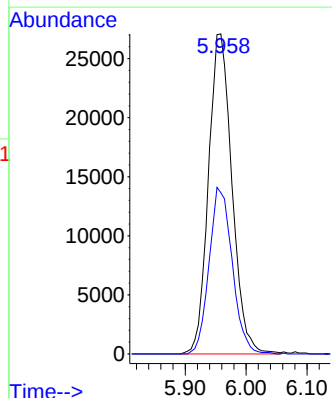
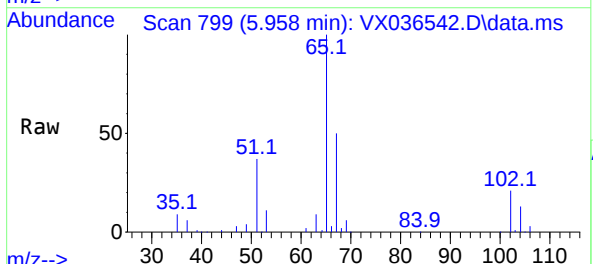
Instrument :
MSVOA_X
ClientSampleId :

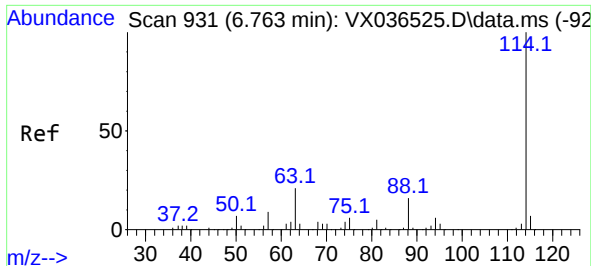
Tgt Ion: 59 Resp: 380
Ion Ratio Lower Upper
59 100
52 0.0 142.6 213.8#



#27
1,2-Dichloroethane-d4
Concen: 29.494 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX036542.D
Acq: 13 Jul 2023 21:50

Tgt Ion: 65 Resp: 72717
Ion Ratio Lower Upper
65 100
67 51.0 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: VX036542.D

Acq: 13 Jul 2023 21:50

Instrument :

MSVOA_X

ClientSampleId :

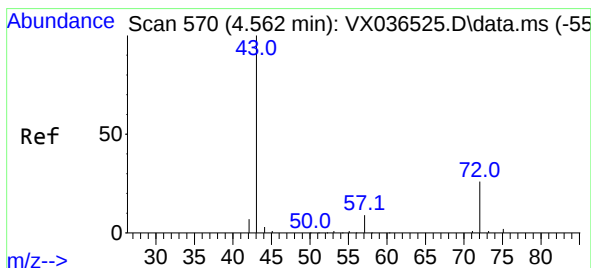
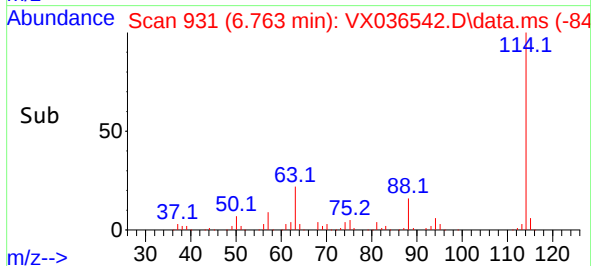
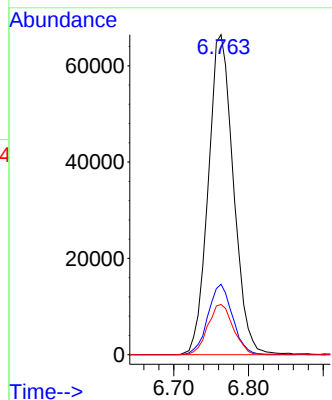
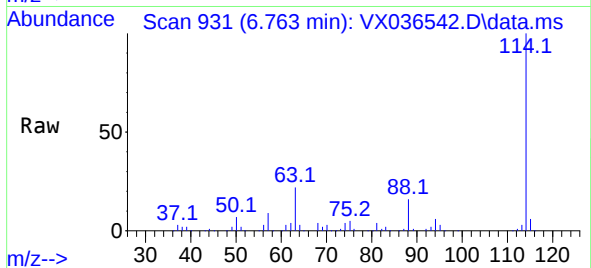
Tgt Ion:114 Resp: 155871

Ion Ratio Lower Upper

114 100

63 21.5 16.6 24.8

88 15.9 12.9 19.3



#30

2-Butanone

Concen: 55.450 ug/l

RT: 4.562 min Scan# 570

Delta R.T. 0.000 min

Lab File: VX036542.D

Acq: 13 Jul 2023 21:50

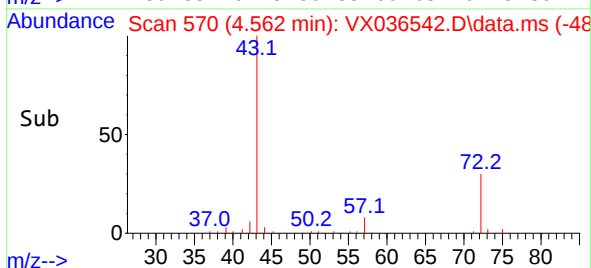
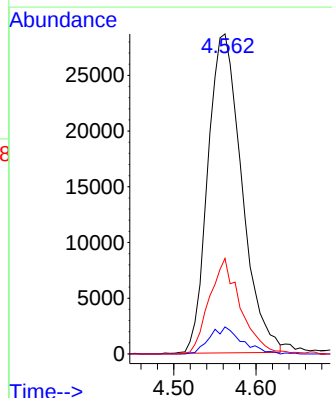
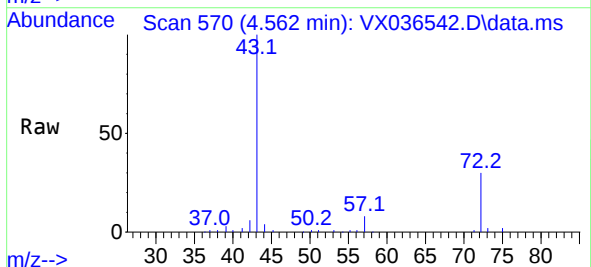
Tgt Ion: 43 Resp: 82065

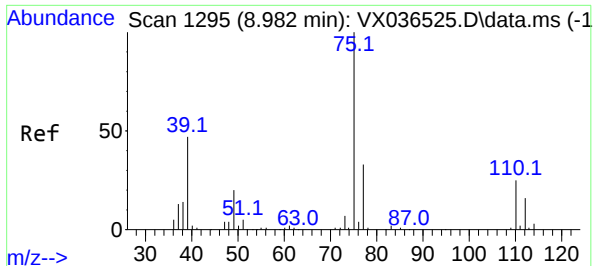
Ion Ratio Lower Upper

43 100

57 7.3 6.4 9.6

72 27.8 21.6 32.4

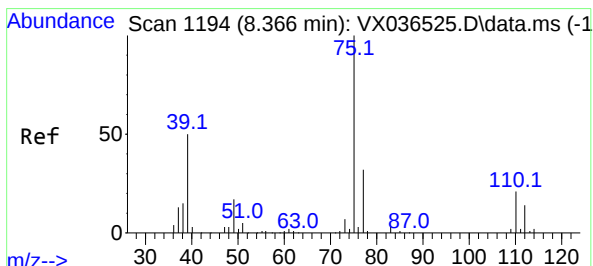
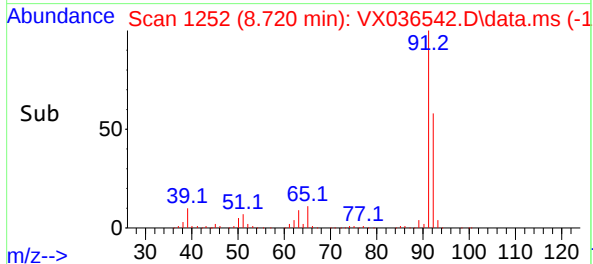
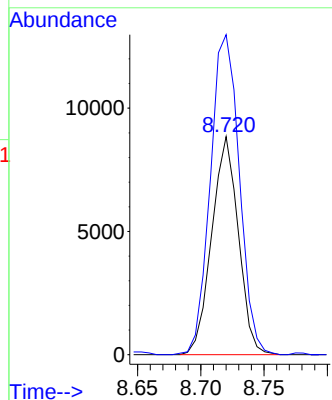
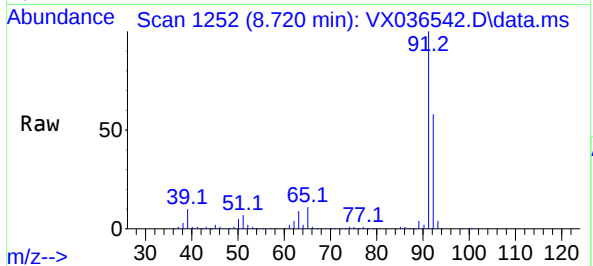




#48
t-1,3-Dichloropropene
Concen: 4.567 ug/l
RT: 8.720 min Scan# 11
Delta R.T. -0.262 min
Lab File: VX036542.D
Acq: 13 Jul 2023 21:50

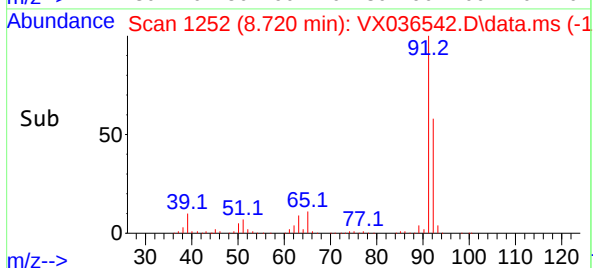
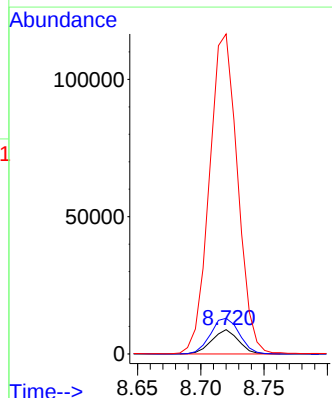
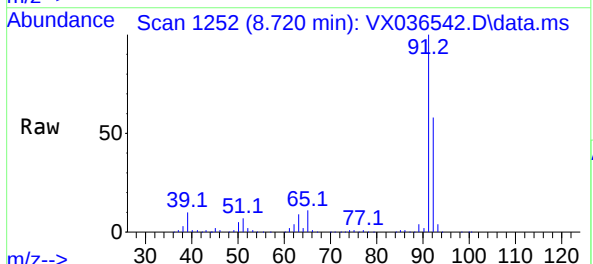
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MSVOA_X
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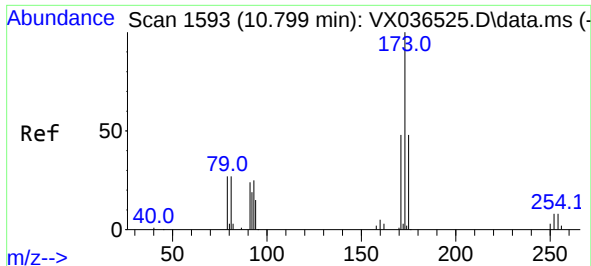
Tgt Ion: 75 Resp: 12931
Ion Ratio Lower Upper
75 100
77 146.8 26.8 40.2#



#49
cis-1,3-Dichloropropene
Concen: 4.227 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.354 min
Lab File: VX036542.D
Acq: 13 Jul 2023 21:50

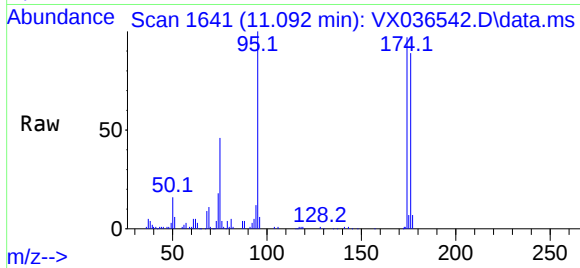
Tgt Ion: 75 Resp: 12931
Ion Ratio Lower Upper
75 100
77 146.8 25.4 38.2#
39 1313.9 40.2 60.4#



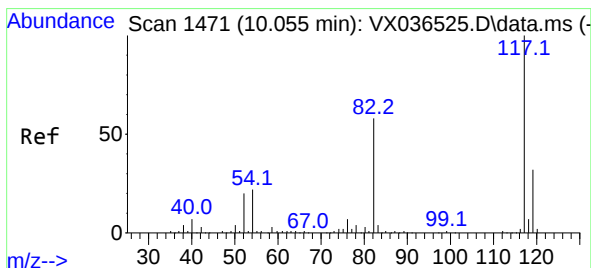
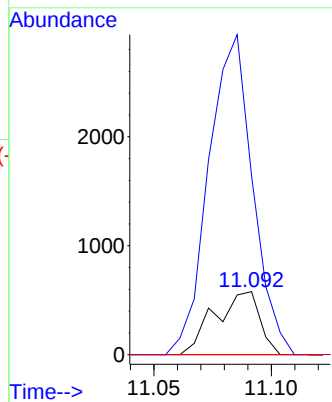
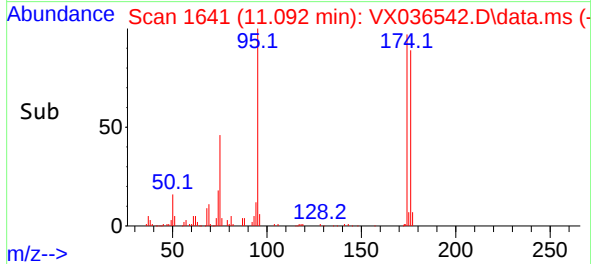


#56
Bromoform
Concen: 0.573 ug/l
RT: 11.092 min Scan# 1641
Delta R.T. 0.293 min
Lab File: VX036542.D
Acq: 13 Jul 2023 21:50

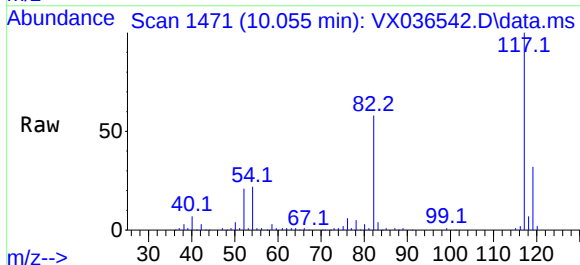
Instrument :
MSVOA_X
ClientSampleId :



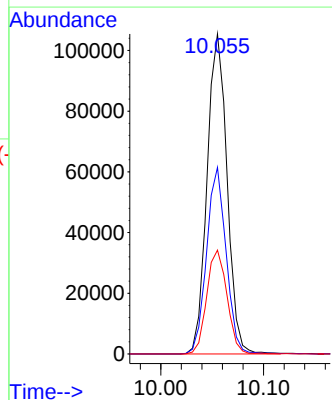
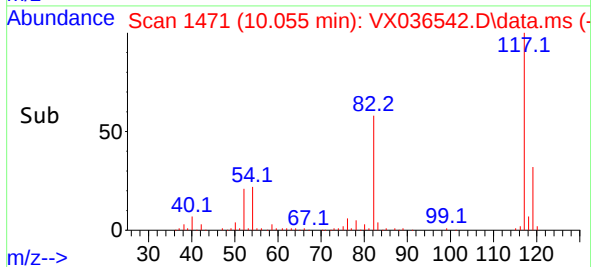
Tgt Ion:173 Resp: 777
Ion Ratio Lower Upper
173 100
175 493.2 38.1 57.1#
254 0.0 6.7 10.1#

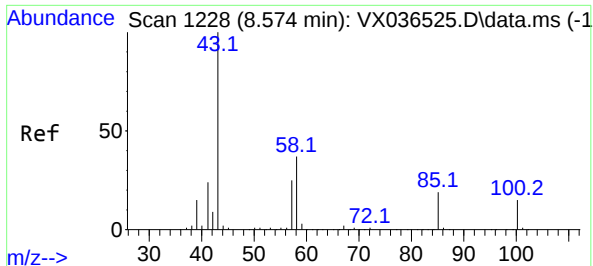


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX036542.D
Acq: 13 Jul 2023 21:50



Tgt Ion:117 Resp: 142515
Ion Ratio Lower Upper
117 100
82 57.1 44.7 67.1
119 32.8 25.6 38.4





#58

4-Methyl-2-Pentanone

Concen: 5.182 ug/l

RT: 8.574 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX036542.D

Acq: 13 Jul 2023 21:50

Instrument :

MSVOA_X

ClientSampleId :

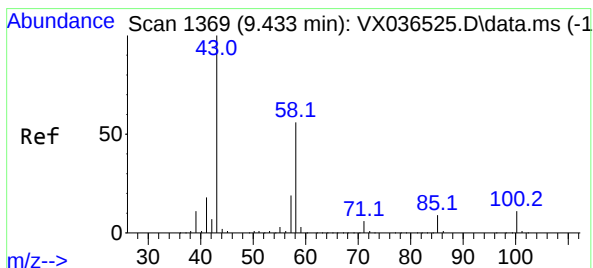
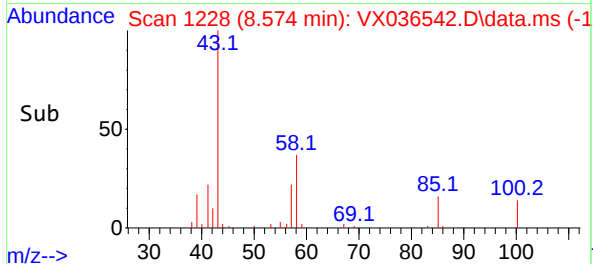
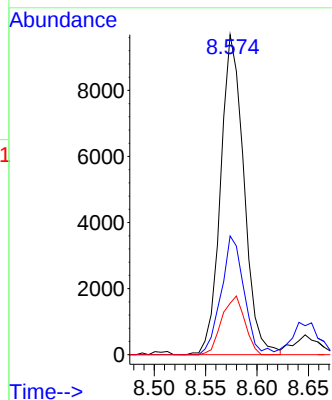
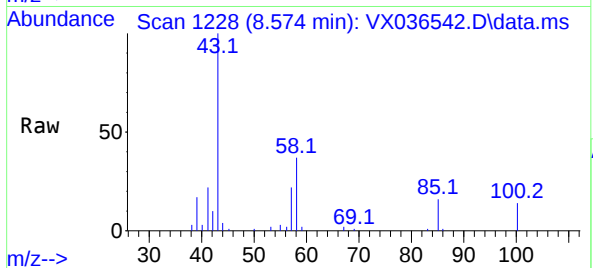
Tgt Ion: 43 Resp: 15270

Ion Ratio Lower Upper

43 100

58 35.8 30.9 46.3

85 18.0 14.4 21.6



#59

2-Hexanone

Concen: 0.706 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX036542.D

Acq: 13 Jul 2023 21:50

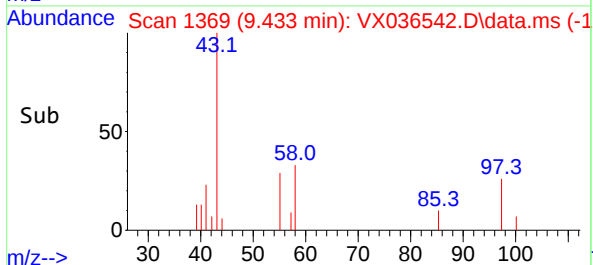
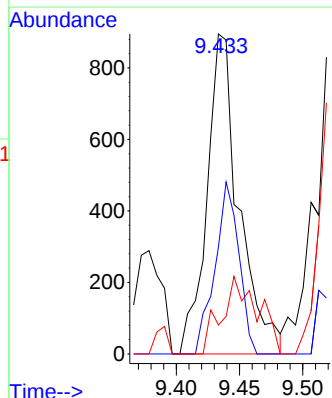
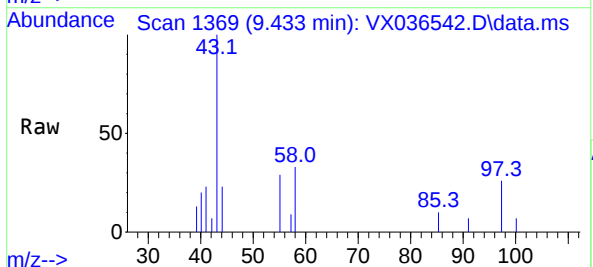
Tgt Ion: 43 Resp: 1582

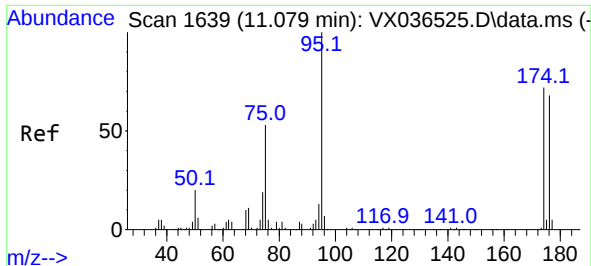
Ion Ratio Lower Upper

43 100

58 39.8 43.4 65.2#

57 17.1 15.1 22.7

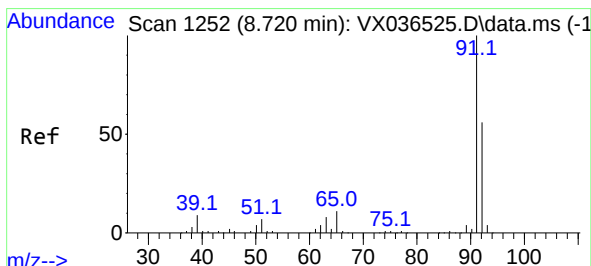
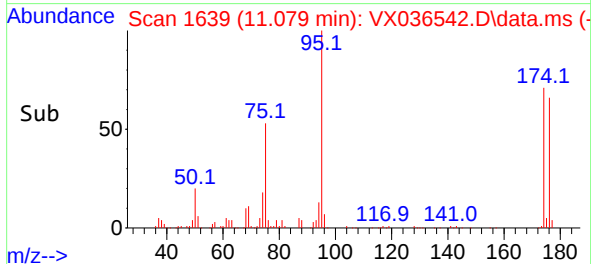
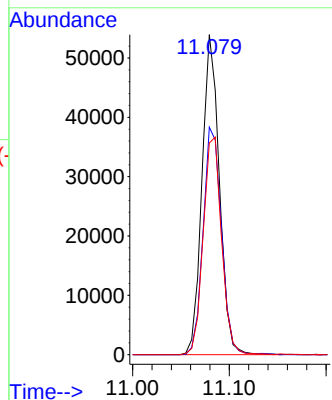
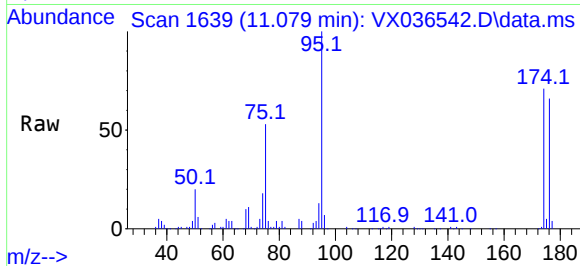




#60
4-Bromofluorobenzene
Concen: 29.146 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX036542.D
Acq: 13 Jul 2023 21:50

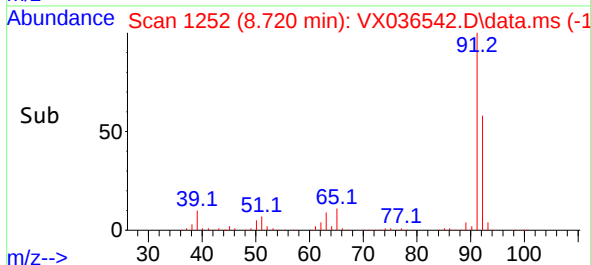
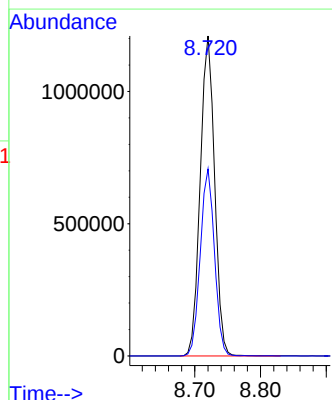
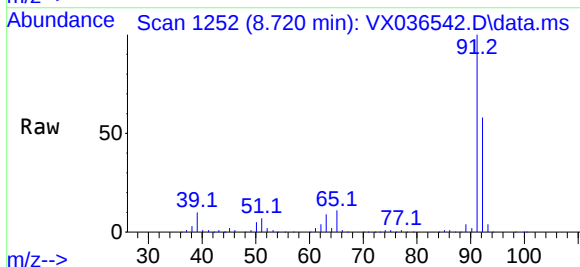
Instrument :
MSVOA_X
ClientSampleId :

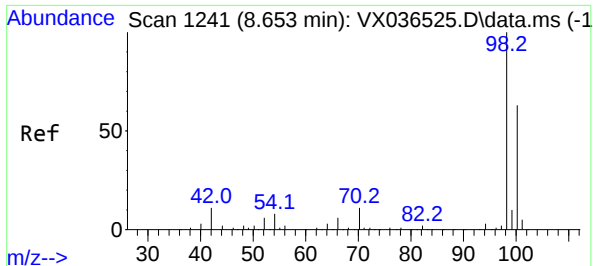
Tgt Ion: 95 Resp: 67379
Ion Ratio Lower Upper
95 100
174 74.8 60.5 90.7
176 72.0 58.2 87.4



#62
Toluene
Concen: 229.341 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX036542.D
Acq: 13 Jul 2023 21:50

Tgt Ion: 91 Resp: 1833863
Ion Ratio Lower Upper
91 100
92 57.7 44.9 67.3





#63

Toluene-d8

Concen: 29.957 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX036542.D

Acq: 13 Jul 2023 21:50

Instrument :

MSVOA_X

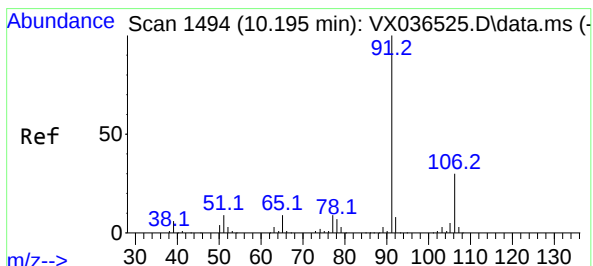
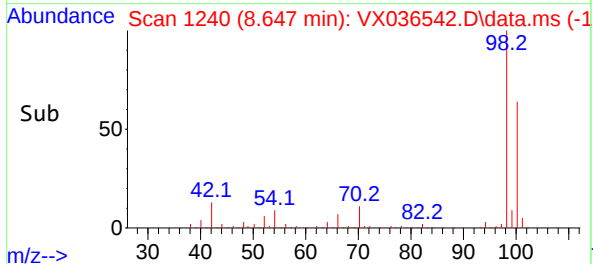
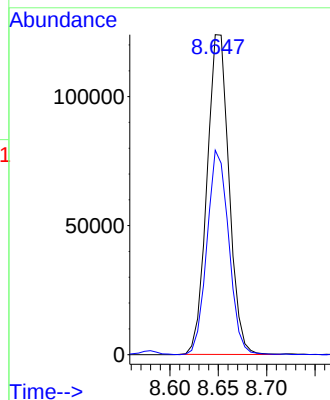
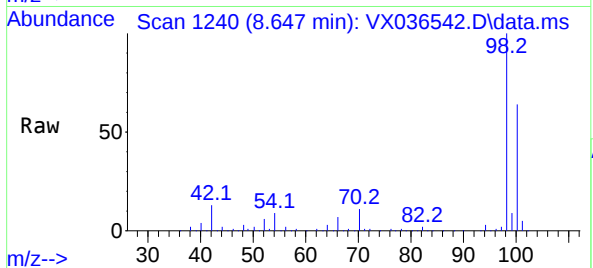
ClientSampleId :

Tgt Ion: 98 Resp: 196456

Ion Ratio Lower Upper

98 100

100 63.2 51.6 77.4



#66

Ethyl Benzene

Concen: 0.211 ug/l

RT: 10.201 min Scan# 1495

Delta R.T. 0.006 min

Lab File: VX036542.D

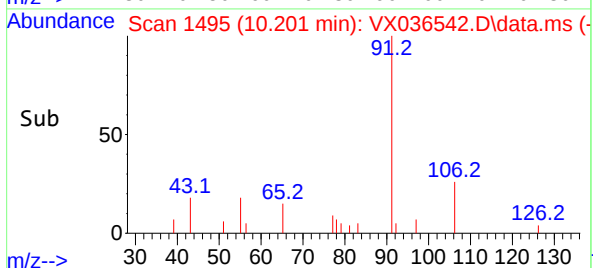
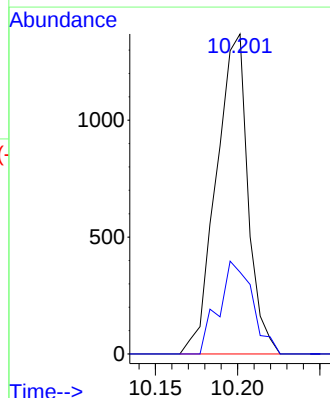
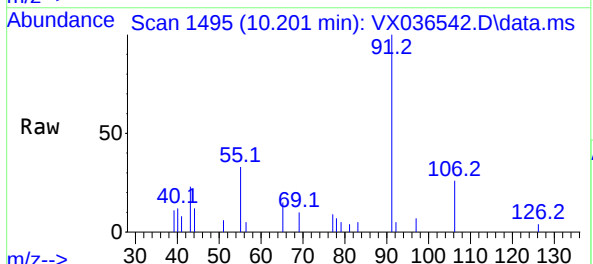
Acq: 13 Jul 2023 21:50

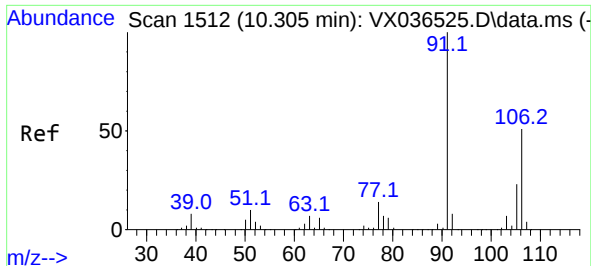
Tgt Ion: 91 Resp: 1836

Ion Ratio Lower Upper

91 100

106 25.6 24.2 36.4

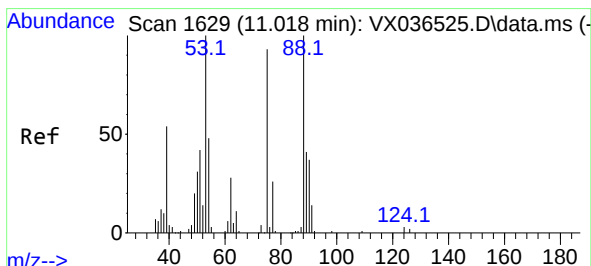
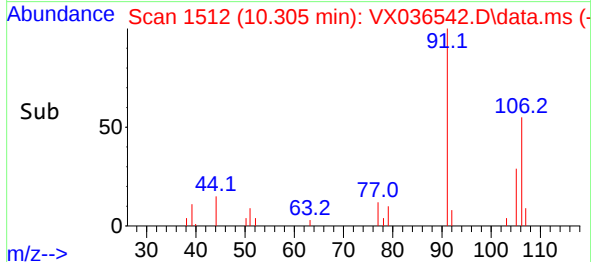
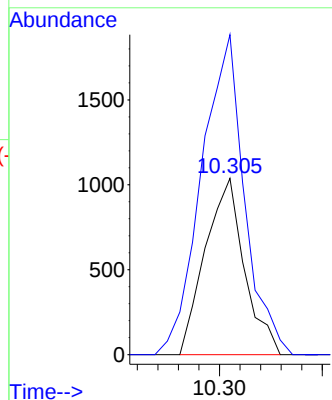
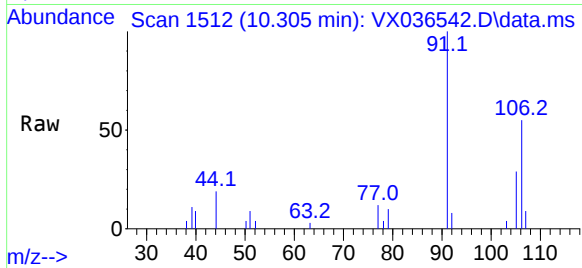




#67
m/p-Xylenes
Concen: 0.405 ug/l
RT: 10.305 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX036542.D
Acq: 13 Jul 2023 21:50

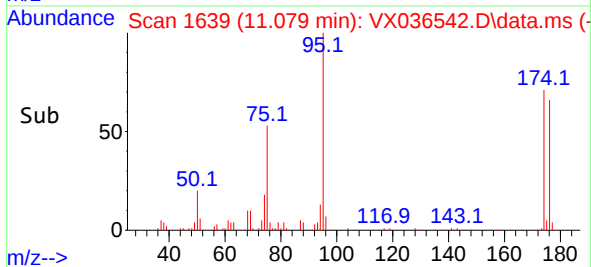
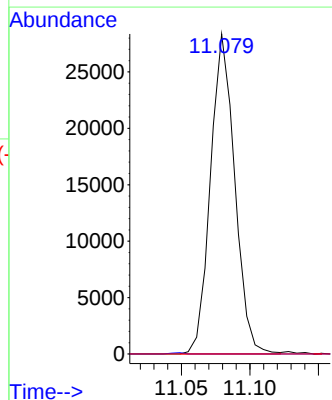
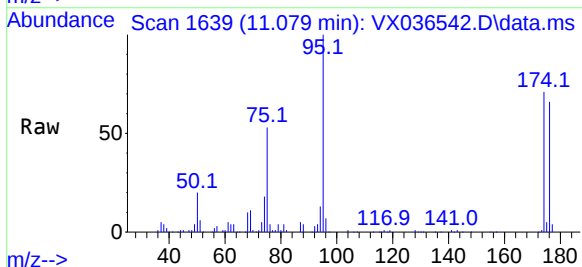
Instrument :
MSVOA_X
ClientSampleId :

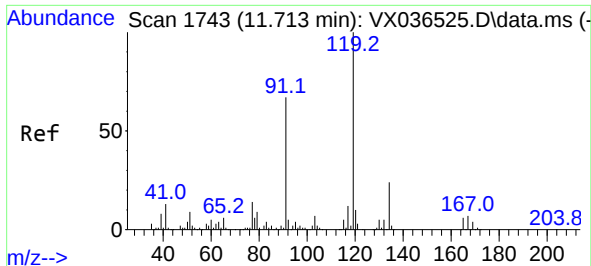
Tgt Ion:106 Resp: 1372
Ion Ratio Lower Upper
106 100
91 199.6 160.5 240.7



#77
t-1,4-Dichloro-2-butene
Concen: 37.550 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX036542.D
Acq: 13 Jul 2023 21:50

Tgt Ion: 75 Resp: 34925
Ion Ratio Lower Upper
75 100
53 0.0 53.9 161.7#
89 0.0 22.1 66.1#

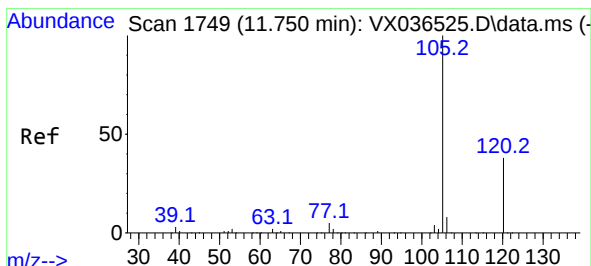
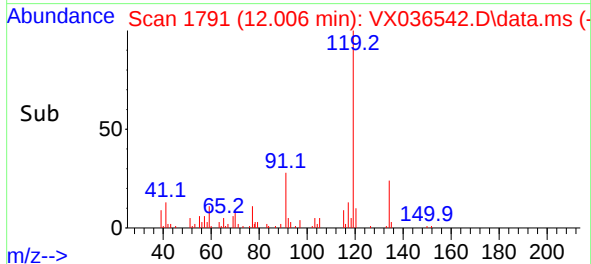
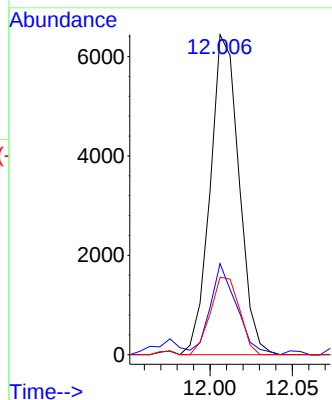
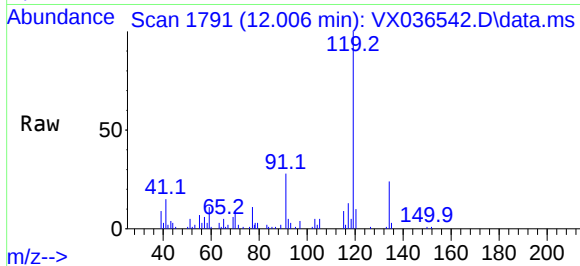




#79
tert-butylbenzene
Concen: 1.151 ug/l
RT: 12.006 min Scan# 11
Delta R.T. 0.293 min
Lab File: VX036542.D
Acq: 13 Jul 2023 21:50

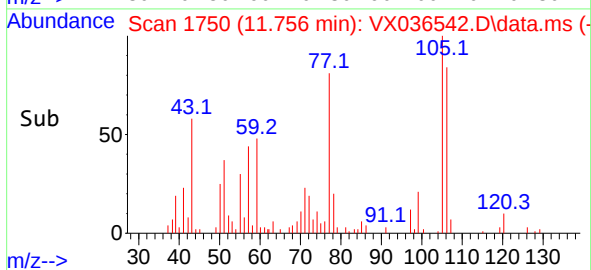
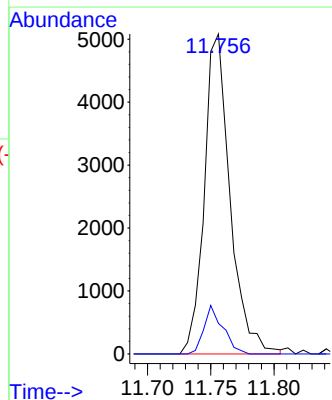
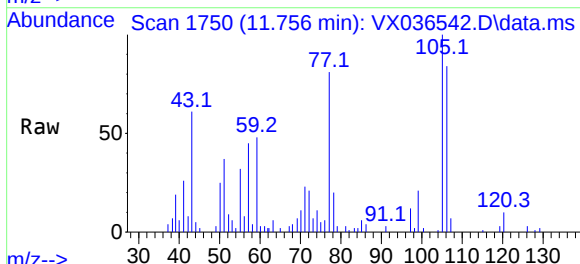
Instrument :
MSVOA_X
ClientSampleId :

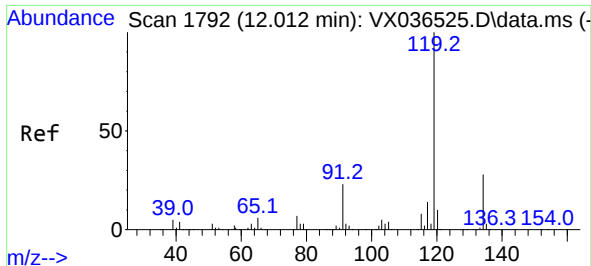
Tgt Ion:119 Resp: 7862
Ion Ratio Lower Upper
119 100
91 25.9 0.0 124.4
134 24.3 0.0 47.2



#80
1,2,4-Trimethylbenzene
Concen: 1.009 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX036542.D
Acq: 13 Jul 2023 21:50

Tgt Ion:105 Resp: 7196
Ion Ratio Lower Upper
105 100
120 11.2 0.0 90.2





#82

p-Isopropyltoluene

Concen: 1.099 ug/l

RT: 12.006 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX036542.D

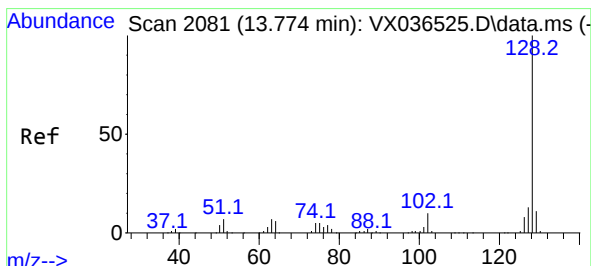
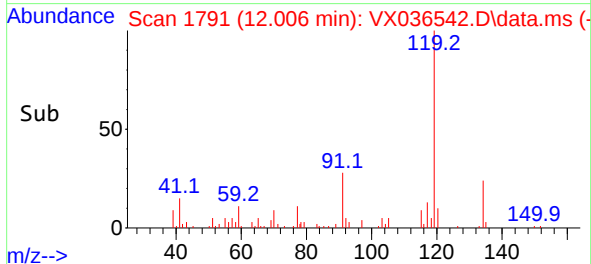
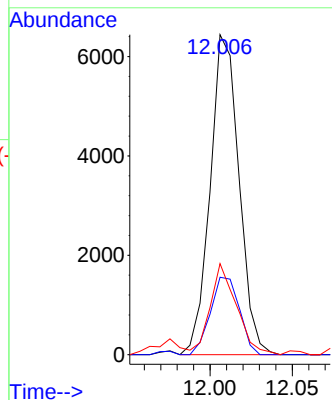
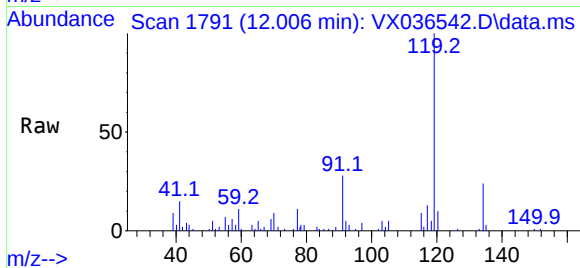
Acq: 13 Jul 2023 21:50

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:119	Resp:	7862
Ion	Ratio	Lower Upper
119	100	
134	24.3	0.0 53.2
91	25.9	0.0 49.4



#91

Naphthalene

Concen: 0.332 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX036542.D

Acq: 13 Jul 2023 21:50

Tgt Ion:128	Resp:	2834
Ion	Ratio	Lower Upper
128	100	
127	16.3	10.3 15.5#
129	15.0	8.7 13.1#

