

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040623\
 Data File : VX034954.D
 Acq On : 06 Apr 2023 14:34
 Operator : JC/MD
 Sample : 02211-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 002-35TH-AVE(APR)

Quant Time: Apr 07 03:18:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

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

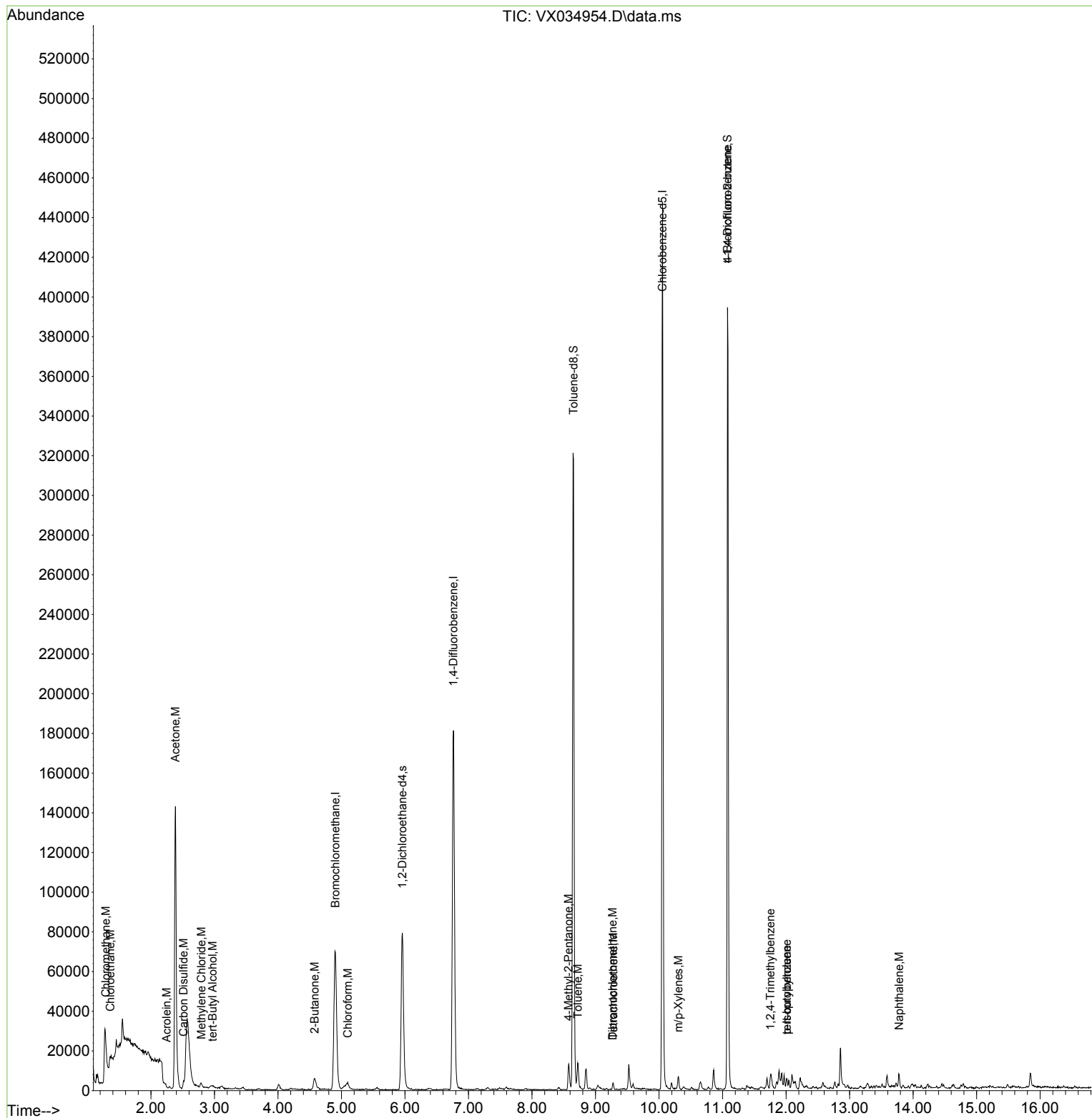
Internal Standards						
1) Bromochloromethane	4.903	128	28553	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	178350	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	190678	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	78401	28.577	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	95.267%
60) 4-Bromofluorobenzene	11.079	95	110762	29.071	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.900%
63) Toluene-d8	8.653	98	190483	29.396	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.288	50	1134	0.323	ug/l #	44
6) Chloroethane	1.361	64	4164	1.847	ug/l #	53
13) Acrolein	2.245	56	171	0.235	ug/l #	47
15) Acetone	2.385	58	46924	100.008	ug/l	97
16) Carbon Disulfide	2.513	76	4342	0.599	ug/l	99
18) Methylene Chloride	2.794	84	882	0.264	ug/l #	91
23) tert-Butyl Alcohol	2.971	59	601	0.773	ug/l #	100
25) Chloroform	5.098	83	2969	0.486	ug/l	92
30) 2-Butanone	4.574	43	10452	4.569	ug/l #	86
53) Dibromochloromethane	9.268	129	589	0.201	ug/l #	10
58) 4-Methyl-2-Pentanone	8.573	43	9163	2.096	ug/l	98
61) Tetrachloroethene	9.280	164	666	0.259	ug/l #	63
62) Toluene	8.720	91	7872	0.631	ug/l	99
67) m/p-Xylenes	10.305	106	1610	0.305	ug/l	93
77) t-1,4-Dichloro-2-butene	11.079	75	59014	47.489	ug/l #	4
79) tert-butylbenzene	12.012	119	2500	0.230	ug/l	68
80) 1,2,4-Trimethylbenzene	11.756	105	2594	0.229	ug/l	92
82) p-Isopropyltoluene	12.012	119	2500	0.225	ug/l	97
91) Naphthalene	13.780	128	4252	0.334	ug/l	98

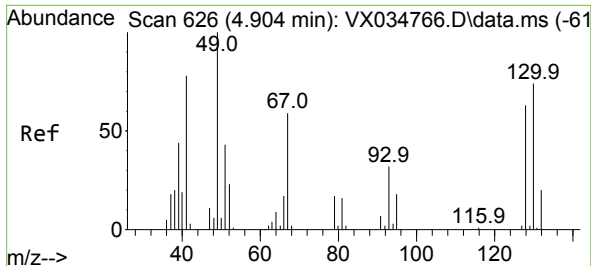
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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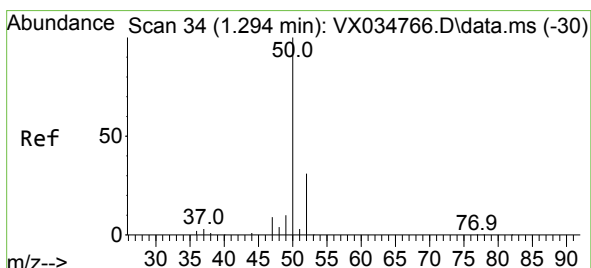
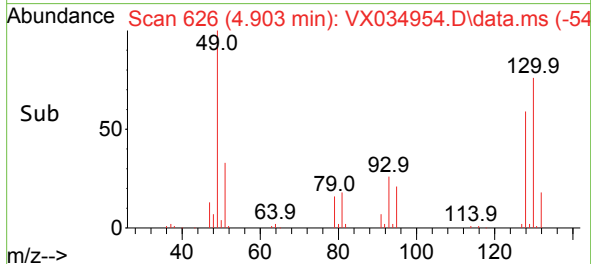
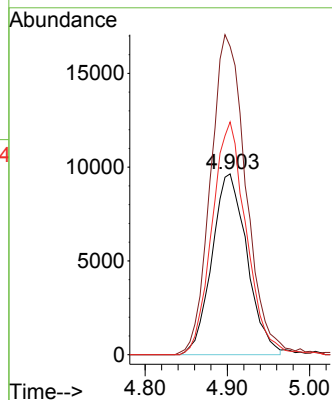
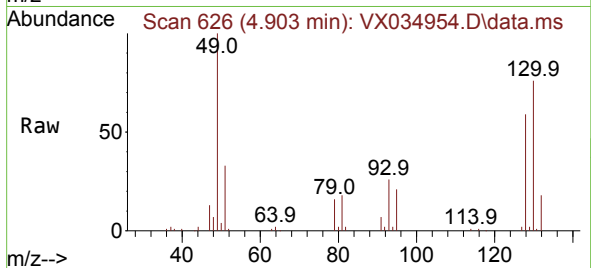




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.903 min Scan# 61
Delta R.T. -0.001 min
Lab File: VX034954.D
Acq: 06 Apr 2023 14:34

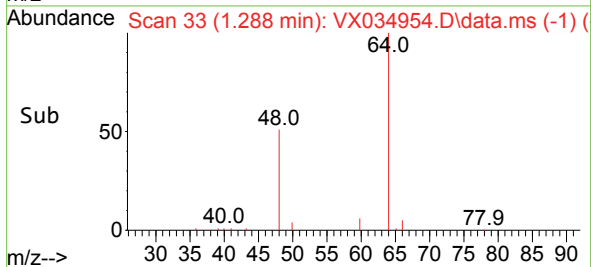
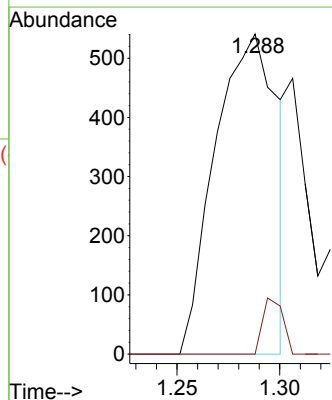
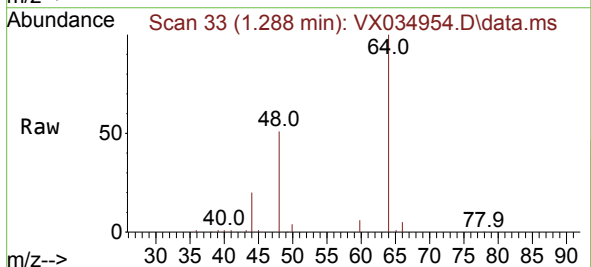
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(APR)

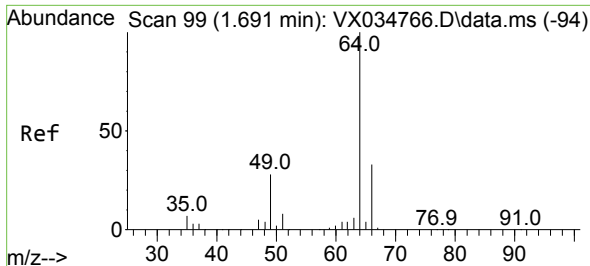
Tgt Ion:128 Resp: 28553
Ion Ratio Lower Upper
128 100
49 178.7 0.0 428.8
130 126.2 0.0 310.8



#3
Chloromethane
Concen: 0.323 ug/l
RT: 1.288 min Scan# 33
Delta R.T. -0.006 min
Lab File: VX034954.D
Acq: 06 Apr 2023 14:34

Tgt Ion: 50 Resp: 1134
Ion Ratio Lower Upper
50 100
52 0.0 24.6 36.8#

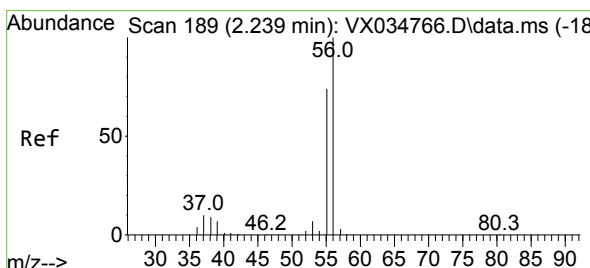
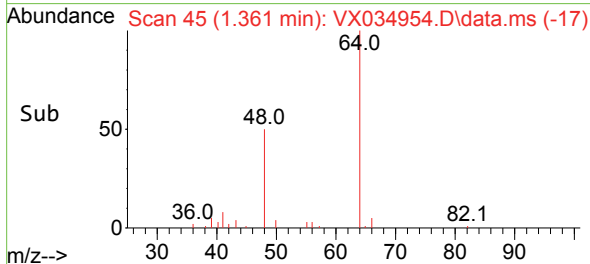
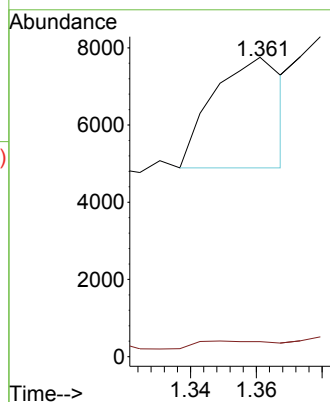
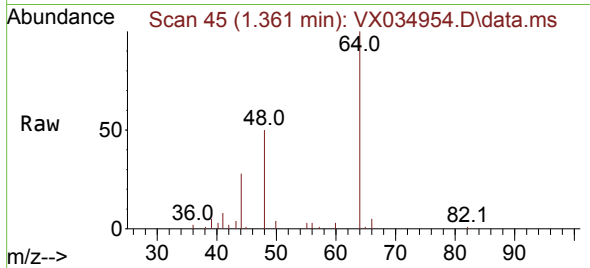




#6
Chloroethane
Concen: 1.847 ug/l
RT: 1.361 min Scan# 41
Delta R.T. -0.330 min
Lab File: VX034954.D
Acq: 06 Apr 2023 14:34

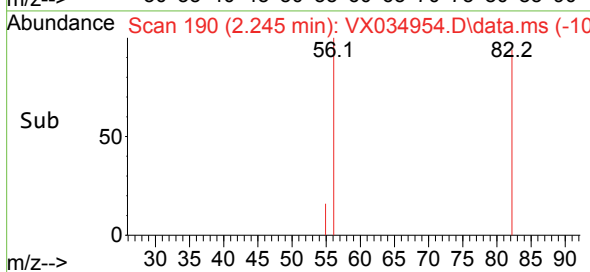
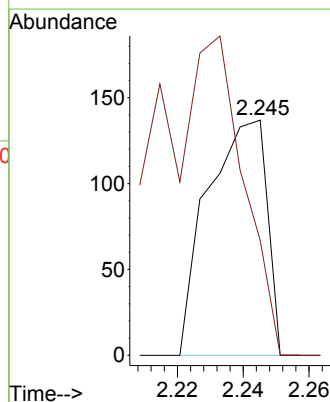
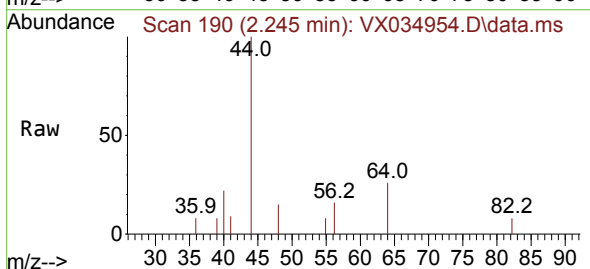
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(APR)

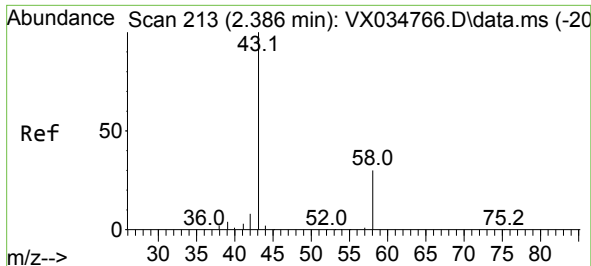
Tgt Ion: 64 Resp: 4164
Ion Ratio Lower Upper
64 100
66 6.4 26.6 40.0#



#13
Acrolein
Concen: 0.235 ug/l
RT: 2.245 min Scan# 190
Delta R.T. 0.006 min
Lab File: VX034954.D
Acq: 06 Apr 2023 14:34

Tgt Ion: 56 Resp: 171
Ion Ratio Lower Upper
56 100
55 114.6 56.6 85.0#





#15

Acetone

Concen: 100.008 ug/l

RT: 2.385 min Scan# 213

Delta R.T. -0.001 min

Lab File: VX034954.D

Acq: 06 Apr 2023 14:34

Instrument :

MSVOA_X

ClientSampleId :

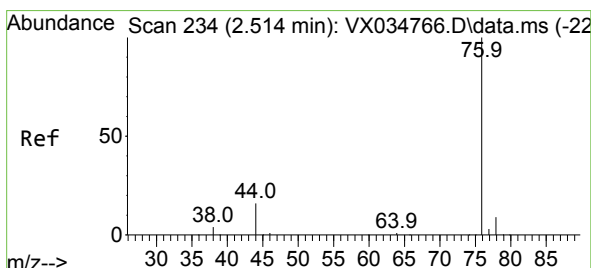
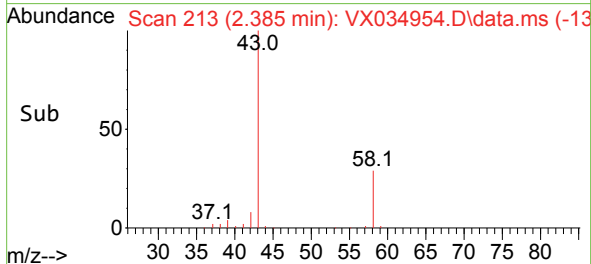
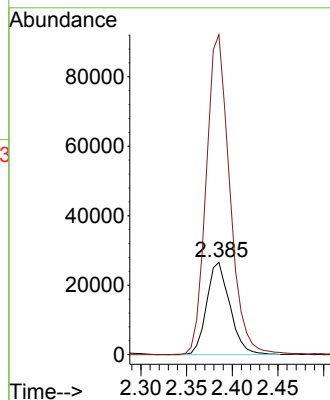
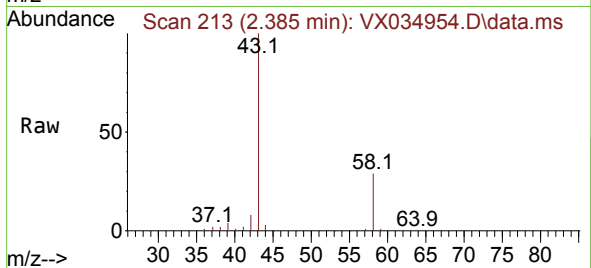
002-35TH-AVE(APR)

Tgt Ion: 58 Resp: 46924

Ion Ratio Lower Upper

58 100

43 345.8 270.8 406.2



#16

Carbon Disulfide

Concen: 0.599 ug/l

RT: 2.513 min Scan# 234

Delta R.T. -0.001 min

Lab File: VX034954.D

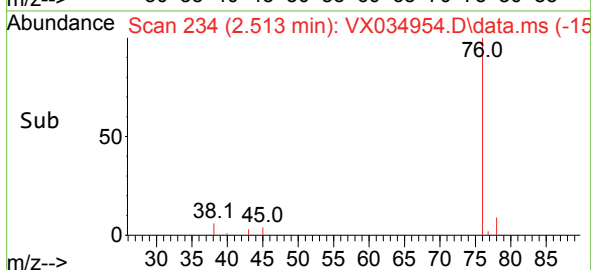
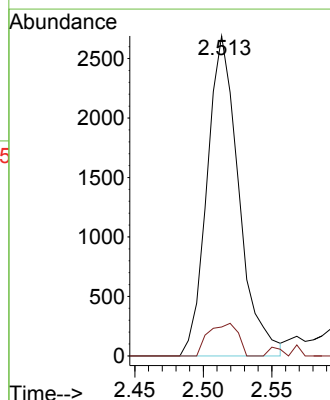
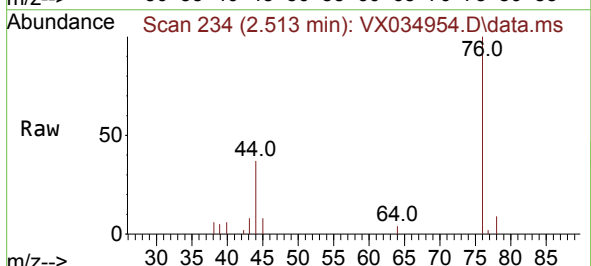
Acq: 06 Apr 2023 14:34

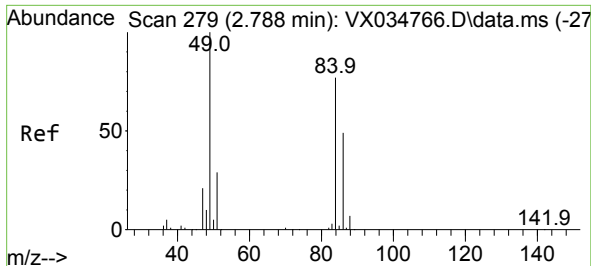
Tgt Ion: 76 Resp: 4342

Ion Ratio Lower Upper

76 100

78 9.0 7.0 10.6





#18

Methylene Chloride

Concen: 0.264 ug/l

RT: 2.794 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX034954.D

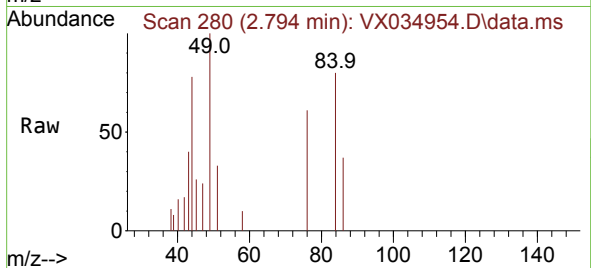
Acq: 06 Apr 2023 14:34

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(APR)



Tgt Ion: 84 Resp: 882

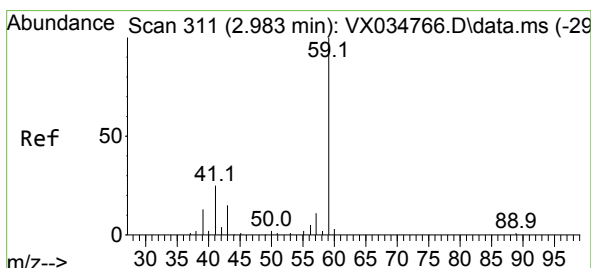
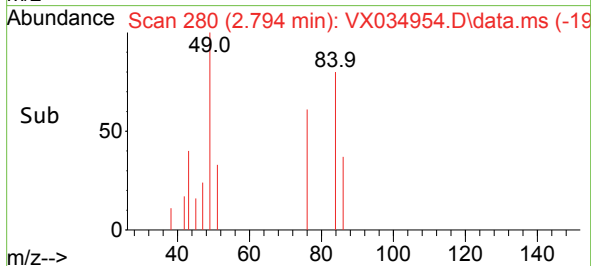
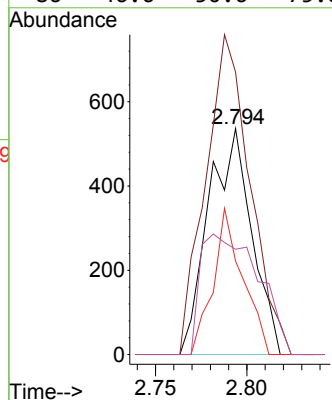
Ion Ratio Lower Upper

84 100

49 125.0 103.9 155.9

51 41.4 30.6 45.8

86 46.6 50.6 75.8#



#23

tert-Butyl Alcohol

Concen: 0.773 ug/l

RT: 2.971 min Scan# 309

Delta R.T. -0.012 min

Lab File: VX034954.D

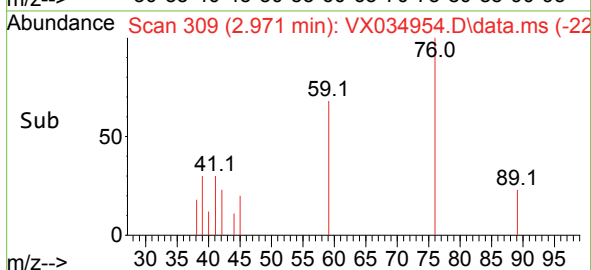
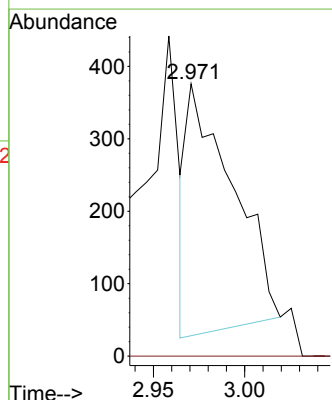
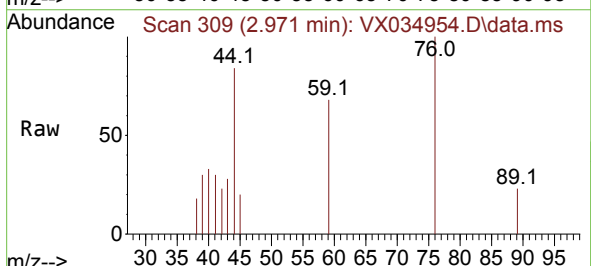
Acq: 06 Apr 2023 14:34

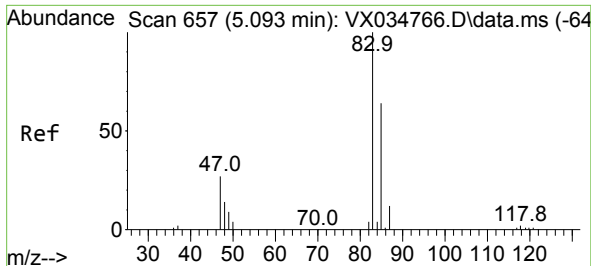
Tgt Ion: 59 Resp: 601

Ion Ratio Lower Upper

59 100

52 0.0 0.2 0.4#





#25

Chloroform

Concen: 0.486 ug/l

RT: 5.098 min Scan# 6

Delta R.T. 0.005 min

Lab File: VX034954.D

Acq: 06 Apr 2023 14:34

Instrument :

MSVOA_X

ClientSampleId :

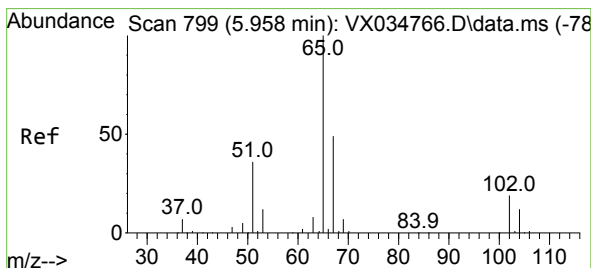
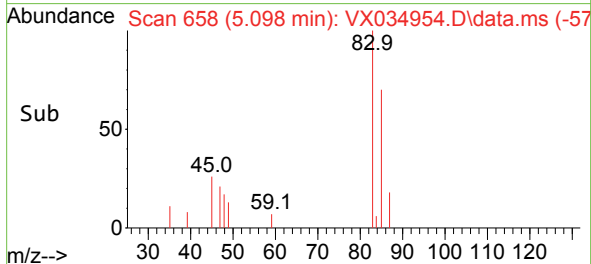
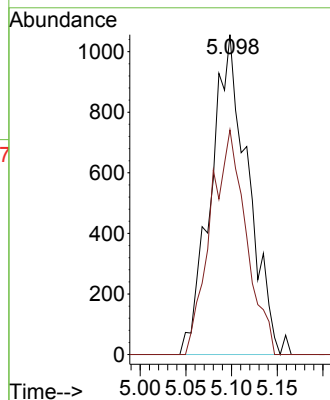
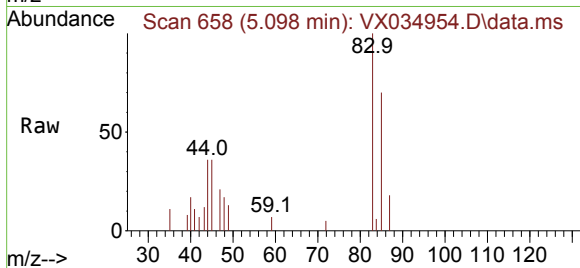
002-35TH-AVE(APR)

Tgt Ion: 83 Resp: 2969

Ion Ratio Lower Upper

83 100

85 70.3 51.2 76.8



#27

1,2-Dichloroethane-d4

Concen: 28.577 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.000 min

Lab File: VX034954.D

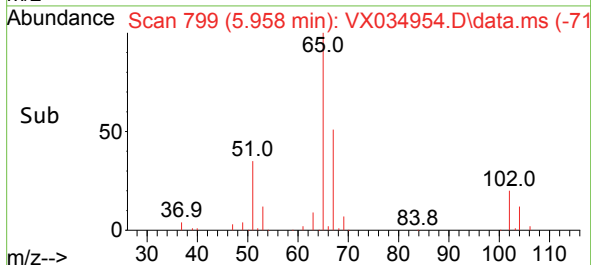
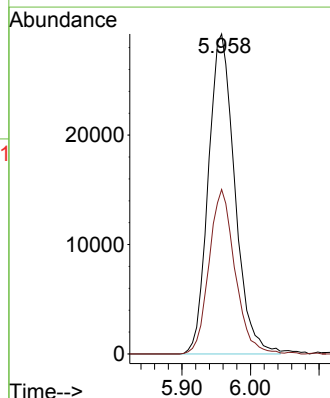
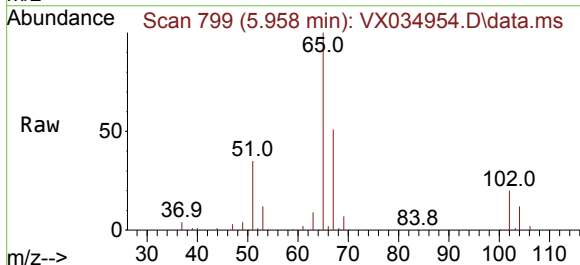
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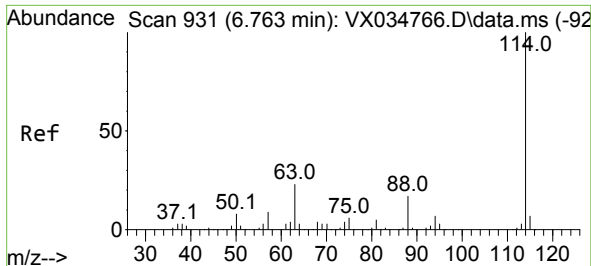
Tgt Ion: 65 Resp: 78401

Ion Ratio Lower Upper

65 100

67 50.4 40.9 61.3

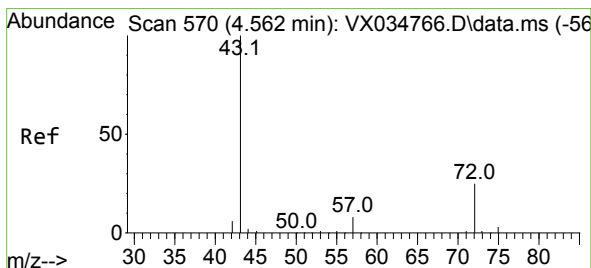
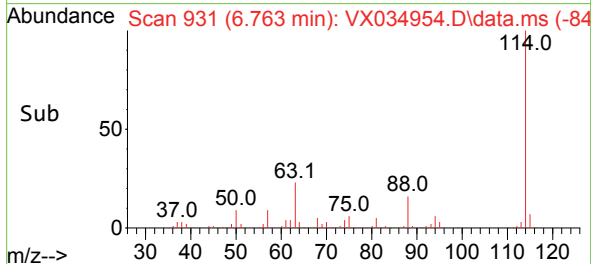
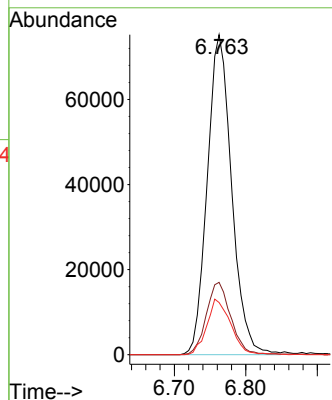
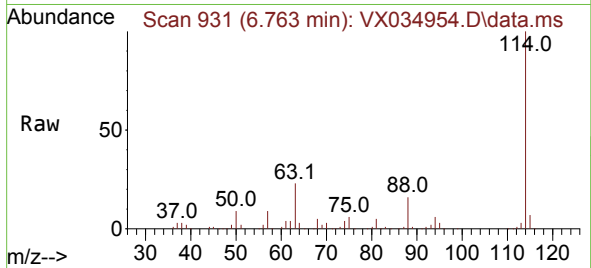




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX034954.D
Acq: 06 Apr 2023 14:34

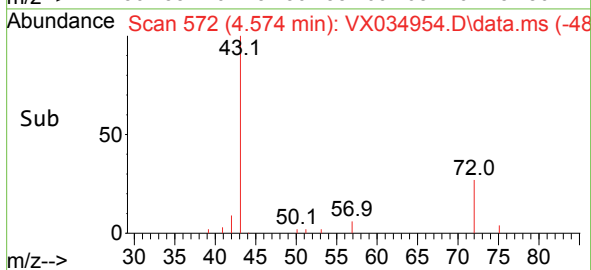
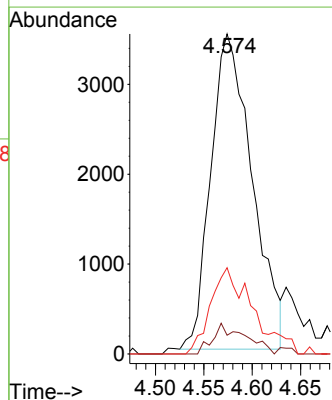
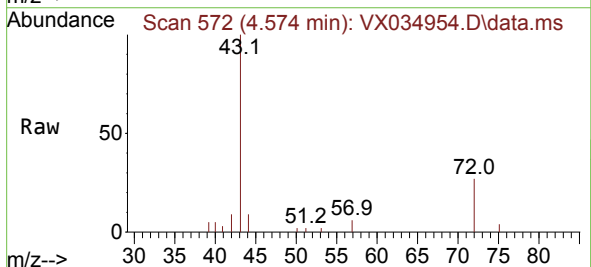
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002-35TH-AVE(APR)

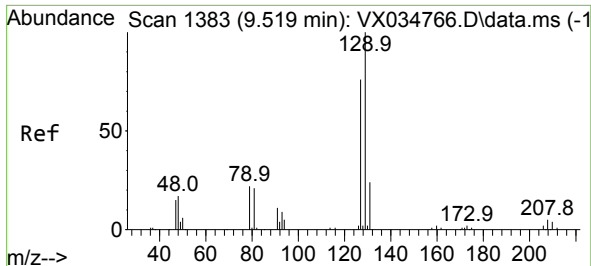
Tgt Ion:114 Resp: 178350
Ion Ratio Lower Upper
114 100
63 22.5 18.0 27.0
88 16.8 13.3 19.9



#30
2-Butanone
Concen: 4.569 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.012 min
Lab File: VX034954.D
Acq: 06 Apr 2023 14:34

Tgt Ion: 43 Resp: 10452
Ion Ratio Lower Upper
43 100
57 4.2 6.3 9.5#
72 17.3 19.6 29.4#

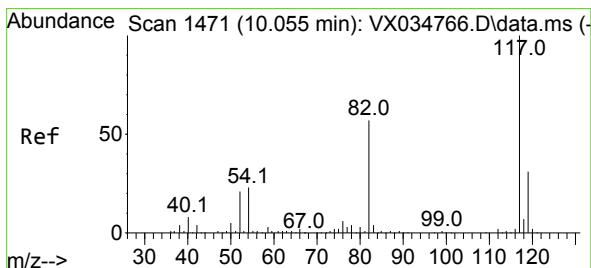
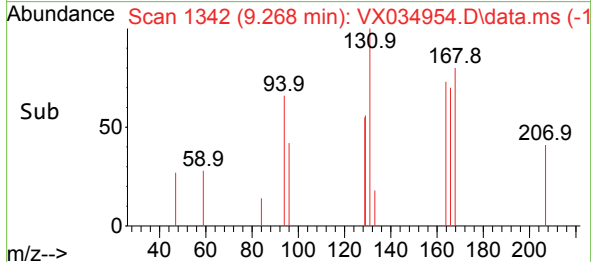
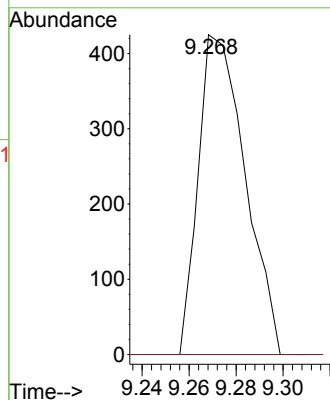
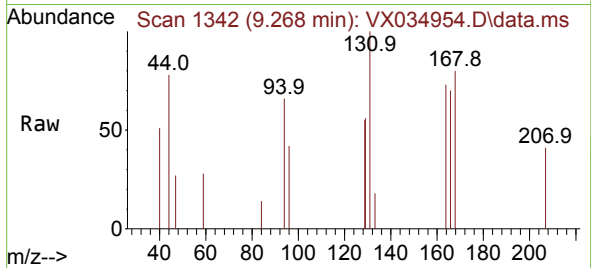




#53
Dibromochloromethane
Concen: 0.201 ug/l
RT: 9.268 min Scan# 11
Delta R.T. -0.251 min
Lab File: VX034954.D
Acq: 06 Apr 2023 14:34

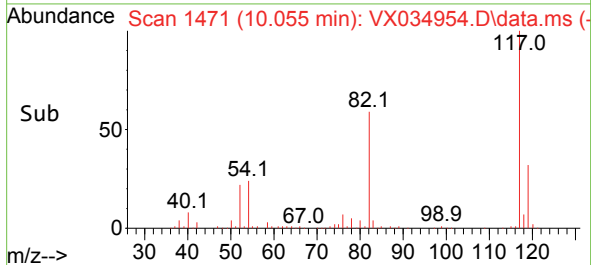
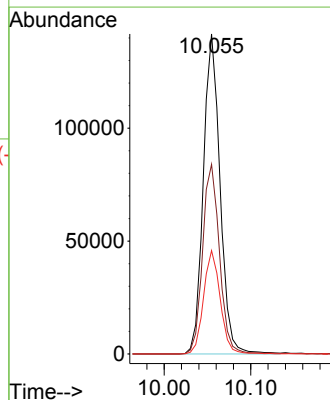
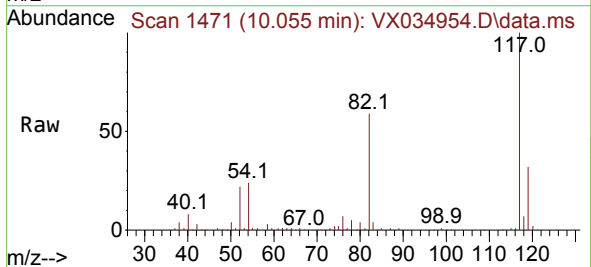
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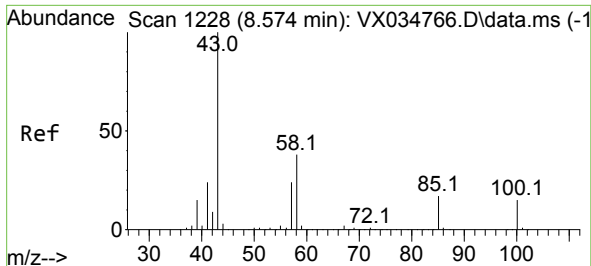
Tgt Ion:129 Resp: 589
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.5#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX034954.D
Acq: 06 Apr 2023 14:34

Tgt Ion:117 Resp: 190678
Ion Ratio Lower Upper
117 100
82 59.6 45.8 68.8
119 32.2 25.4 38.0

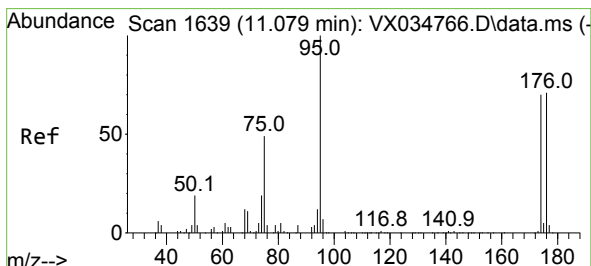
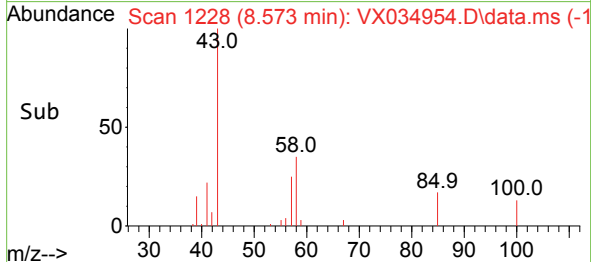
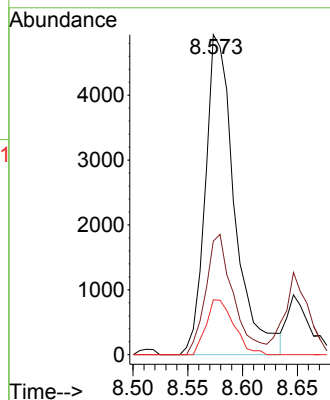
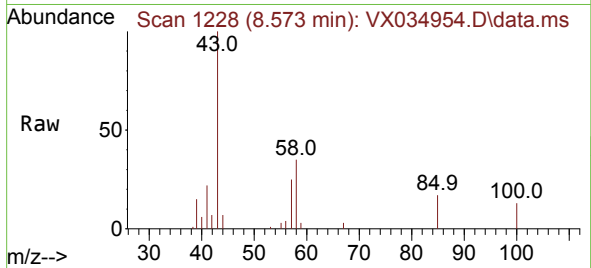




#58
4-Methyl-2-Pentanone
Concen: 2.096 ug/l
RT: 8.573 min Scan# 11
Delta R.T. -0.001 min
Lab File: VX034954.D
Acq: 06 Apr 2023 14:34

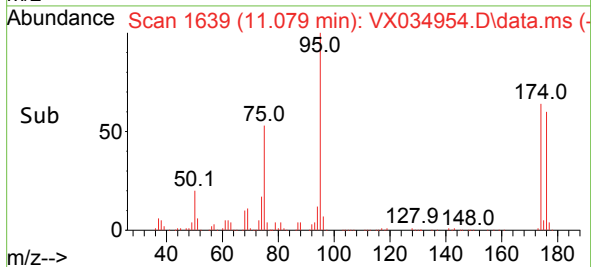
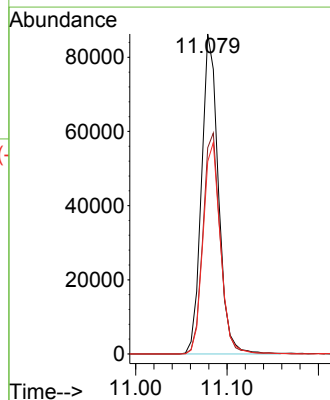
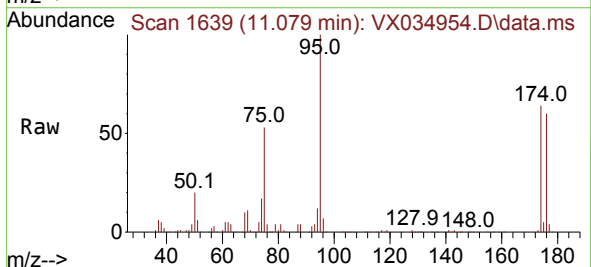
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(APR)

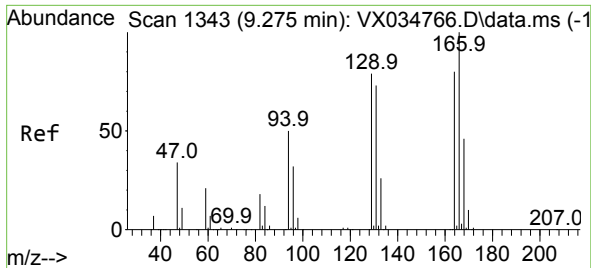
Tgt Ion: 43 Resp: 9163
Ion Ratio Lower Upper
43 100
58 35.8 29.9 44.9
85 16.0 13.2 19.8



#60
4-Bromofluorobenzene
Concen: 29.071 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX034954.D
Acq: 06 Apr 2023 14:34

Tgt Ion: 95 Resp: 110762
Ion Ratio Lower Upper
95 100
174 70.8 0.2 0.4#
176 68.2 0.2 0.2#

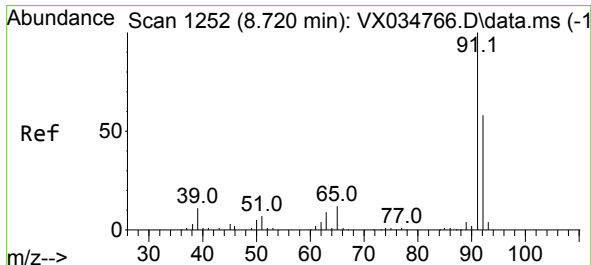
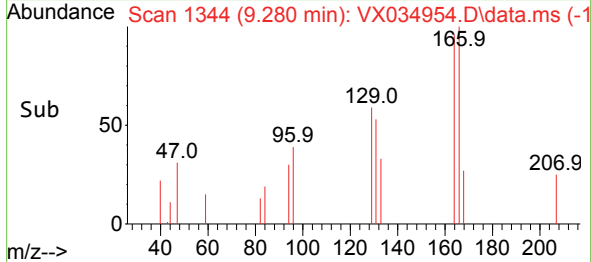
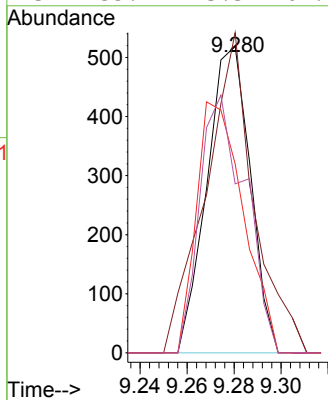
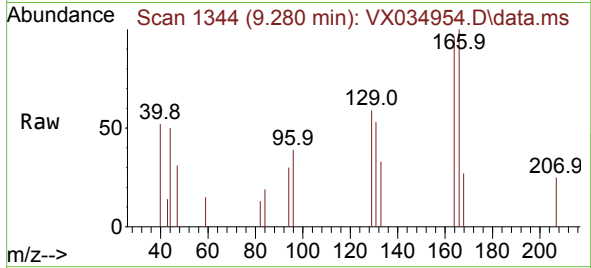




#61
Tetrachloroethene
Concen: 0.259 ug/l
RT: 9.280 min Scan# 11
Delta R.T. 0.005 min
Lab File: VX034954.D
Acq: 06 Apr 2023 14:34

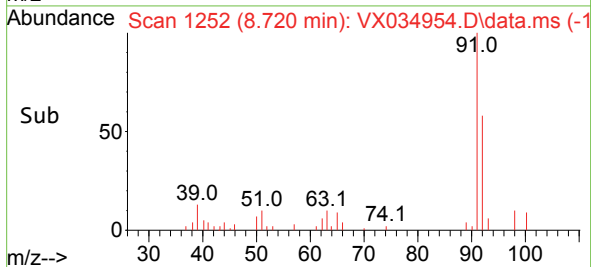
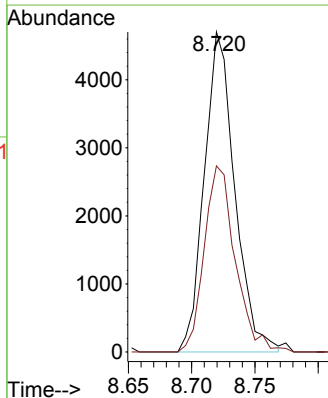
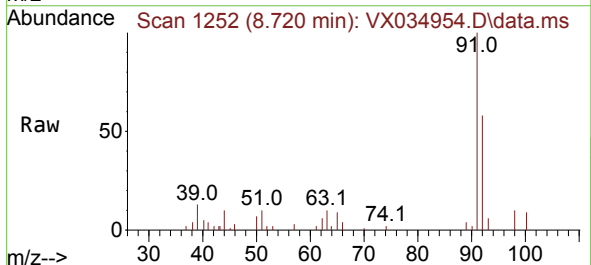
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(APR)

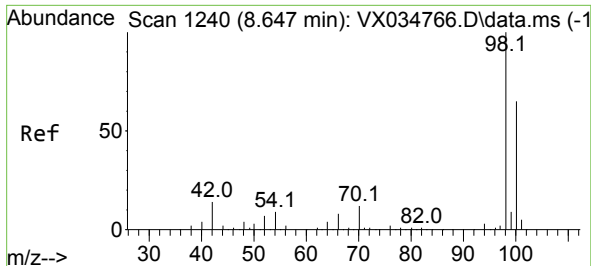
Tgt Ion:164 Resp: 666
Ion Ratio Lower Upper
164 100
166 85.4 100.1 150.1#
129 61.7 79.1 118.7#
131 55.1 73.3 109.9#



#62
Toluene
Concen: 0.631 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX034954.D
Acq: 06 Apr 2023 14:34

Tgt Ion: 91 Resp: 7872
Ion Ratio Lower Upper
91 100
92 58.8 46.5 69.7

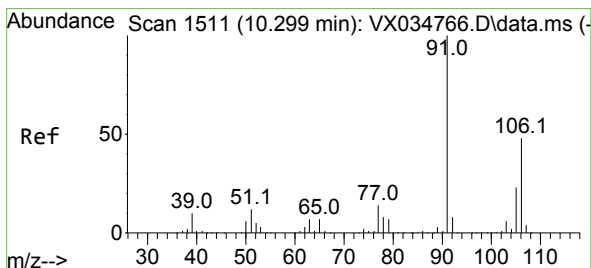
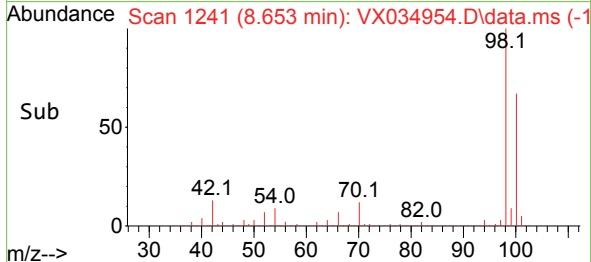
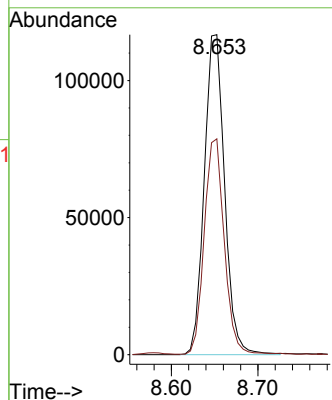
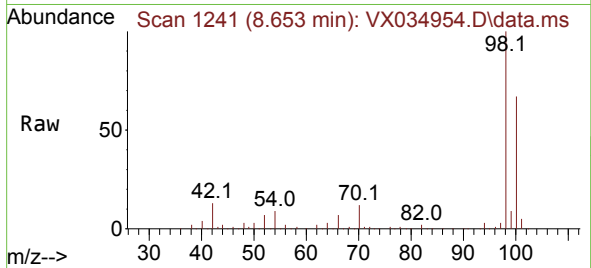




#63
Toluene-d8
Concen: 29.396 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX034954.D
Acq: 06 Apr 2023 14:34

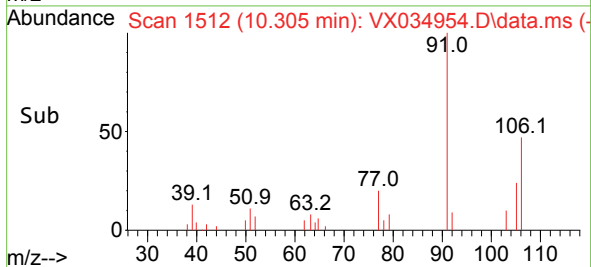
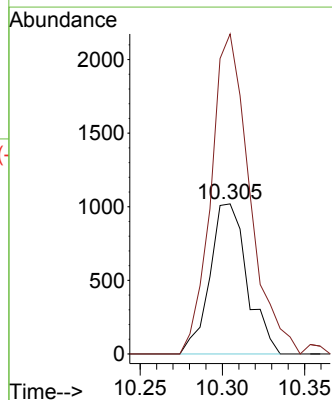
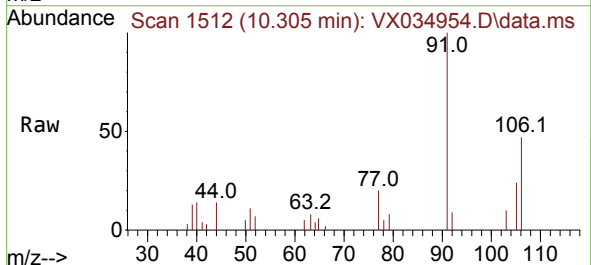
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(APR)

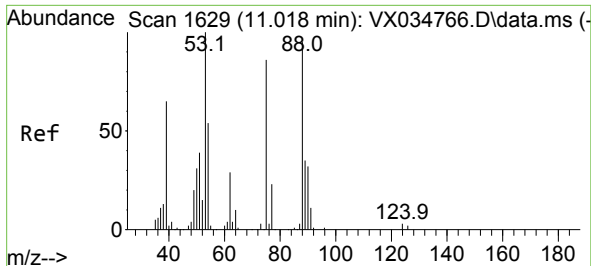
Tgt Ion: 98 Resp: 190483
Ion Ratio Lower Upper
98 100
100 66.5 52.1 78.1



#67
m/p-Xylenes
Concen: 0.305 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX034954.D
Acq: 06 Apr 2023 14:34

Tgt Ion: 106 Resp: 1610
Ion Ratio Lower Upper
106 100
91 220.5 167.4 251.2





#77

t-1,4-Dichloro-2-butene

Concen: 47.489 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.061 min

Lab File: VX034954.D

Acq: 06 Apr 2023 14:34

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(APR)

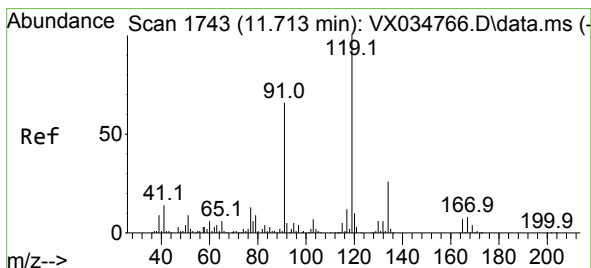
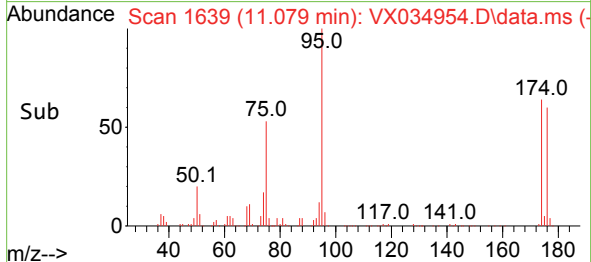
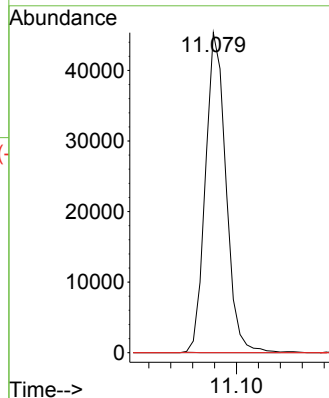
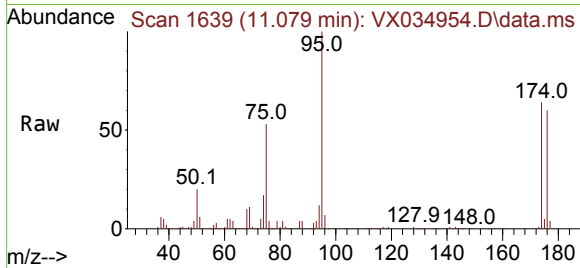
Tgt Ion: 75 Resp: 59014

Ion Ratio Lower Upper

75 100

53 0.0 58.2 174.6#

89 0.0 20.6 61.8#



#79

tert-butylbenzene

Concen: 0.230 ug/l

RT: 12.012 min Scan# 1792

Delta R.T. 0.299 min

Lab File: VX034954.D

Acq: 06 Apr 2023 14:34

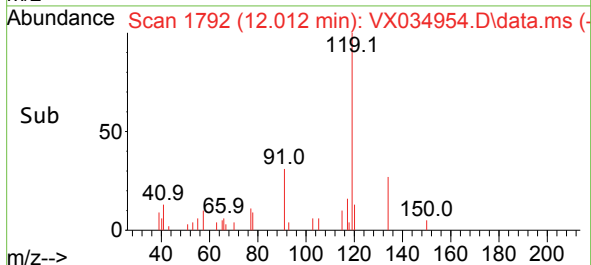
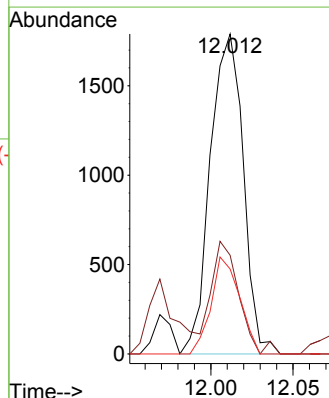
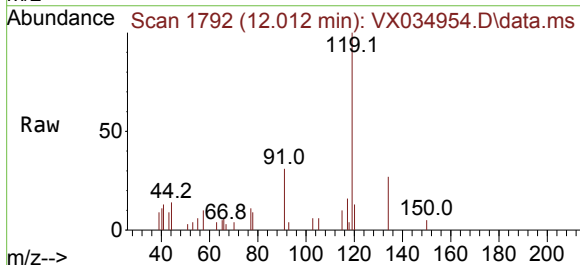
Tgt Ion: 119 Resp: 2500

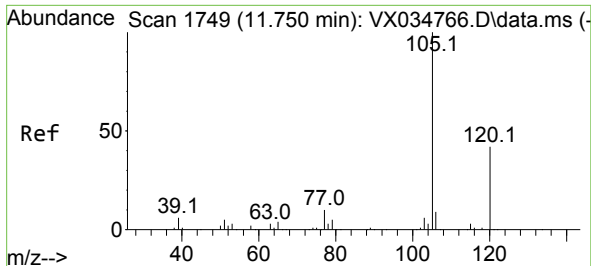
Ion Ratio Lower Upper

119 100

91 28.2 0.0 122.4

134 26.0 0.0 49.2

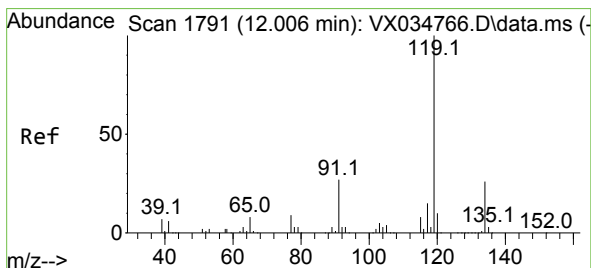
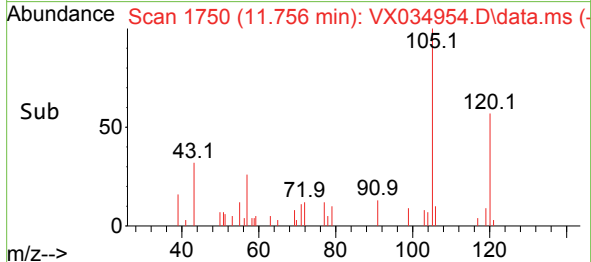
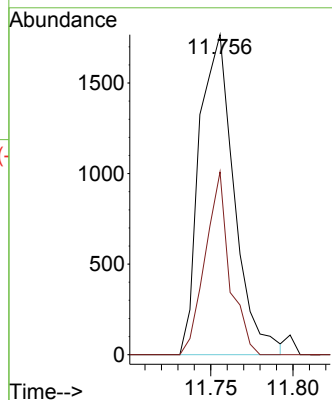
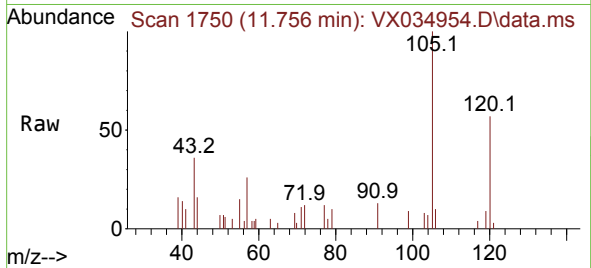




#80
1,2,4-Trimethylbenzene
Concen: 0.229 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX034954.D
Acq: 06 Apr 2023 14:34

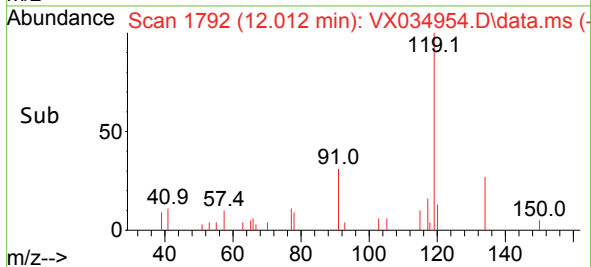
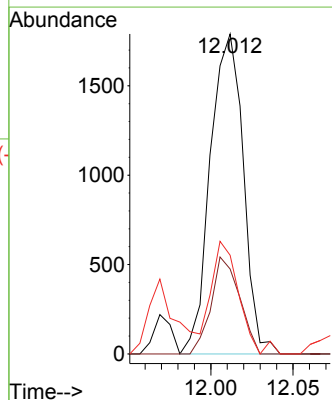
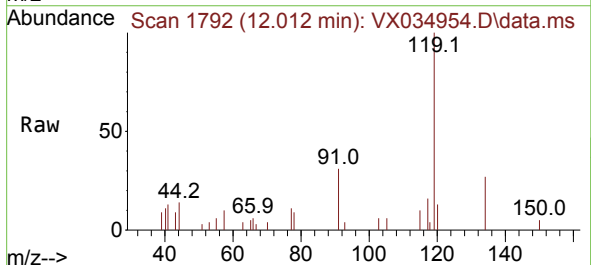
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(APR)

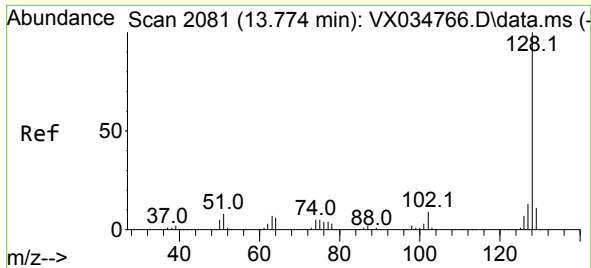
Tgt Ion:105 Resp: 2594
Ion Ratio Lower Upper
105 100
120 40.2 0.0 90.4



#82
p-Isopropyltoluene
Concen: 0.225 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX034954.D
Acq: 06 Apr 2023 14:34

Tgt Ion:119 Resp: 2500
Ion Ratio Lower Upper
119 100
134 26.0 0.0 52.2
91 28.2 0.0 51.0





#91

Naphthalene

Concen: 0.334 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

Lab File: VX034954.D

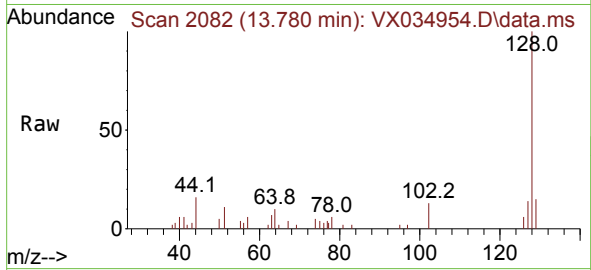
Acq: 06 Apr 2023 14:34

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(APR)



Tgt Ion:128 Resp: 4252

Ion Ratio Lower Upper

128 100

127 13.8 10.3 15.5

129 11.8 8.8 13.2

