

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031323\
 Data File : VX034446.D
 Acq On : 13 Mar 2023 20:30
 Operator : JC/MD
 Sample : 01879-18
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D3-20230309

Quant Time: Mar 14 02:30:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X031023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 13 10:29:32 2023
 Response via : Initial Calibration

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

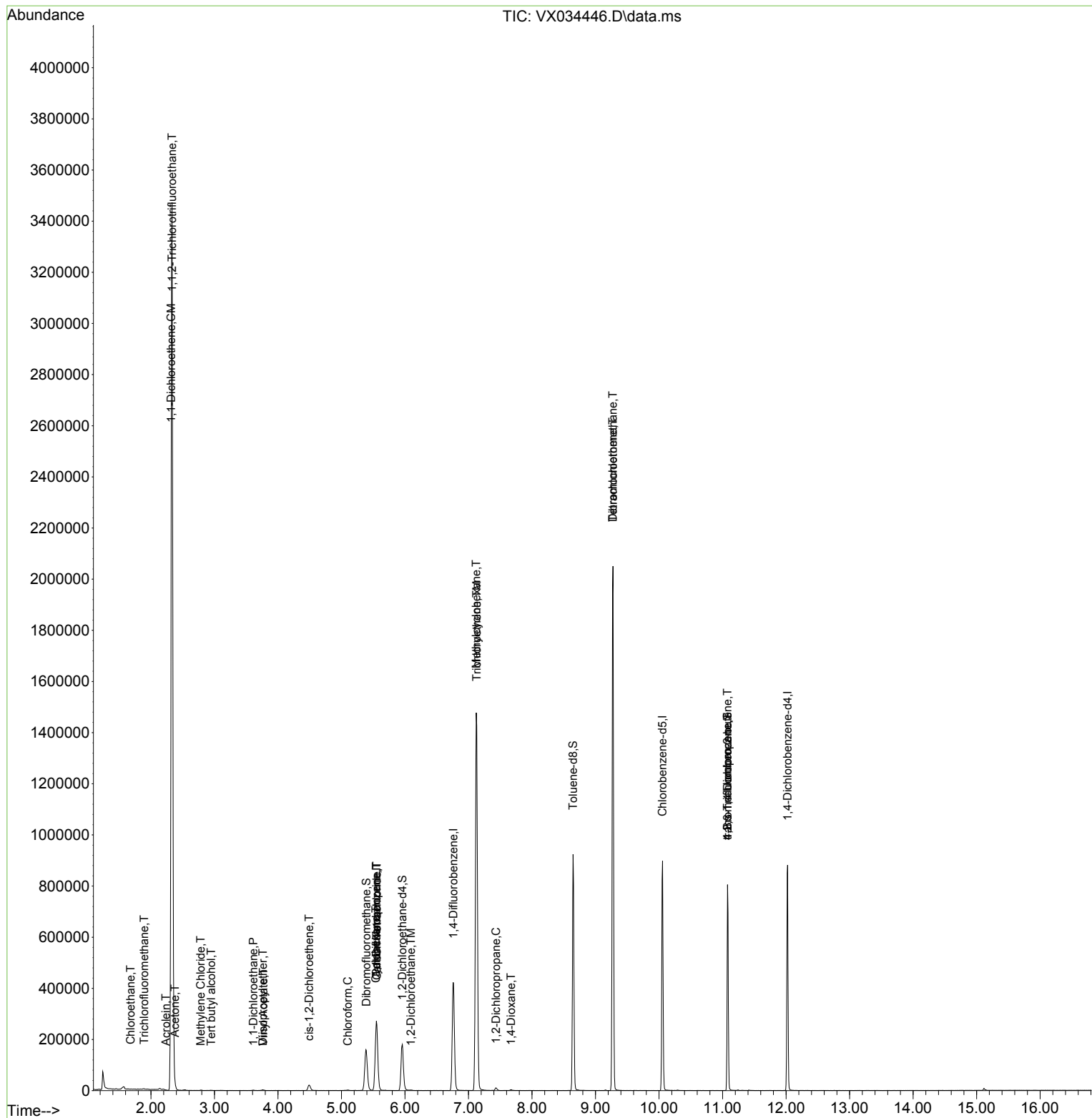
Internal Standards						
1) Pentafluorobenzene	5.550	168	258937	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	438695	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	397110	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	178211	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	167384	44.434	ug/l	0.01
Spiked Amount 50.000	Range 78 - 117		Recovery =	88.860%		
35) Dibromofluoromethane	5.391	113	138636	47.864	ug/l	0.01
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.720%		
50) Toluene-d8	8.647	98	537334	49.695	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	99.380%		
62) 4-Bromofluorobenzene	11.079	95	204028	46.715	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.420%		
Target Compounds						Qvalue
3) Chloromethane	1.295	50	833	Below Cal	#	42
6) Chloroethane	1.679	64	404	0.213	ug/l #	42
7) Trichlorofluoromethane	1.892	101	990	0.200	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	1379942	479.432	ug/l	100
11) Tert butyl alcohol	2.947	59	710	0.905	ug/l #	73
12) 1,1-Dichloroethene	2.319	96	12293	4.337	ug/l	90
13) Acrolein	2.233	56	164	0.264	ug/l #	36
16) Acetone	2.380	43	3818	2.152	ug/l	94
20) Methylene Chloride	2.782	84	747	0.217	ug/l #	65
22) Diisopropyl ether	3.764	45	2593	0.237	ug/l #	68
23) Vinyl Acetate	3.770	43	1829	0.219	ug/l #	72
24) 1,1-Dichloroethane	3.611	63	2043	0.347	ug/l #	93
27) cis-1,2-Dichloroethene	4.489	96	14234	3.928	ug/l	86
30) Chloroform	5.099	83	1805	0.313	ug/l #	61
31) Cyclohexane	5.544	56	5609	1.062	ug/l #	2
36) 1,1-Dichloropropene	5.550	75	20192	4.539	ug/l #	49
38) Carbon Tetrachloride	5.556	117	26025	5.880	ug/l #	16
39) Methylcyclohexane	7.123	83	6688	1.256	ug/l #	1
42) 1,2-Dichloroethane	6.092	62	1875	0.392	ug/l	83
44) Trichloroethene	7.129	130	571378	168.973	ug/l	96
45) 1,2-Dichloropropane	7.434	63	4229	1.245	ug/l	99
49) 1,4-Dioxane	7.671	88	2520	30.299	ug/l	95
60) Dibromochloromethane	9.275	129	365918	109.109	ug/l #	10
64) Tetrachloroethene	9.275	164	378908	142.044	ug/l	98
76) 1,2,3-Trichloropropane	11.079	75	106352	25.991	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	106352	70.313	ug/l #	8

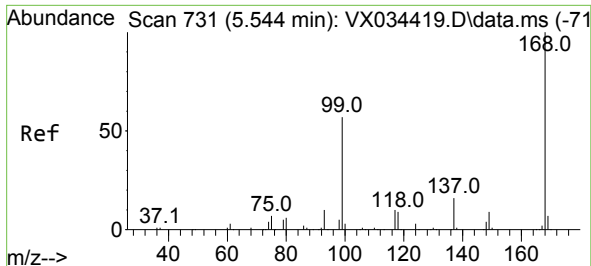
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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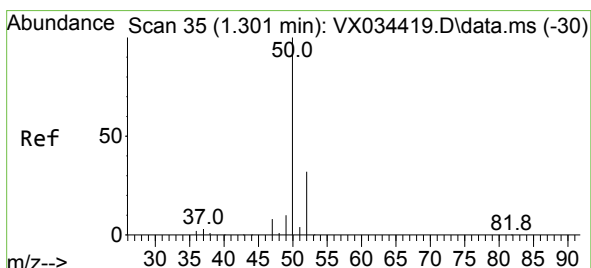
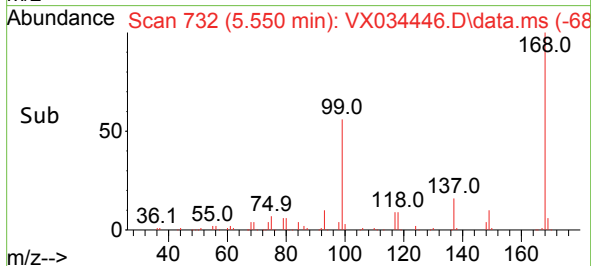
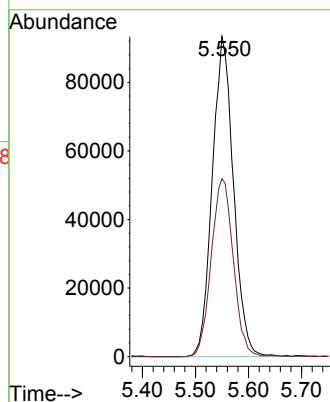
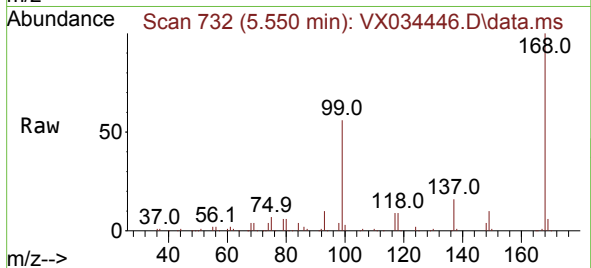




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

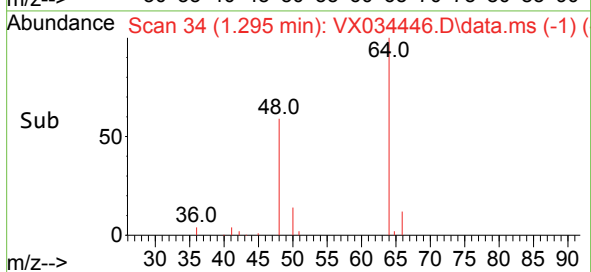
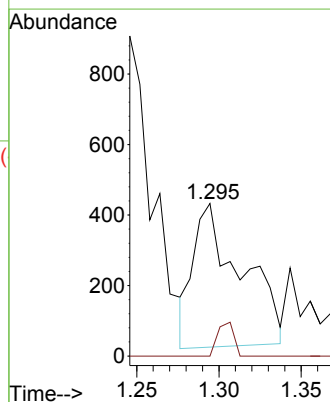
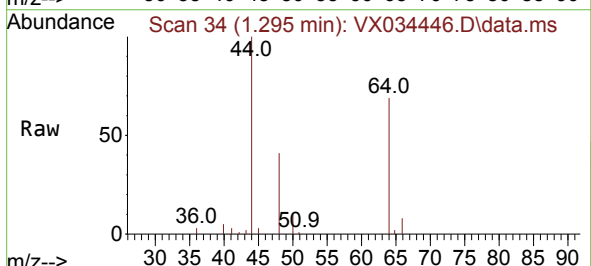
Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20230309

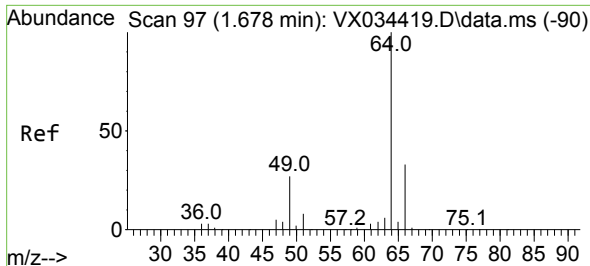
Tgt Ion:168 Resp: 258937
Ion Ratio Lower Upper
168 100
99 55.6 45.7 68.5



#3
Chloromethane
Concen: Below Cal
RT: 1.295 min Scan# 34
Delta R.T. -0.006 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

Tgt Ion: 50 Resp: 833
Ion Ratio Lower Upper
50 100
52 0.0 25.9 38.9#

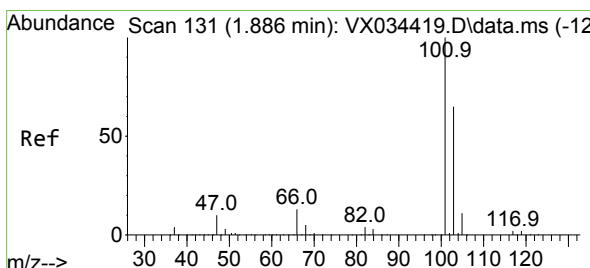
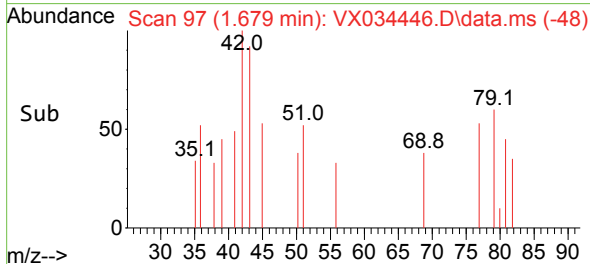
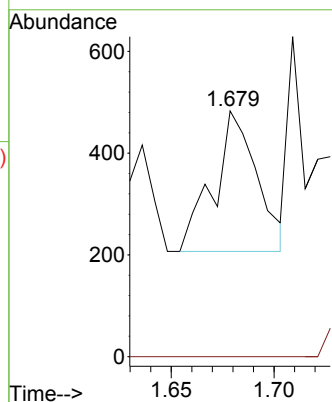
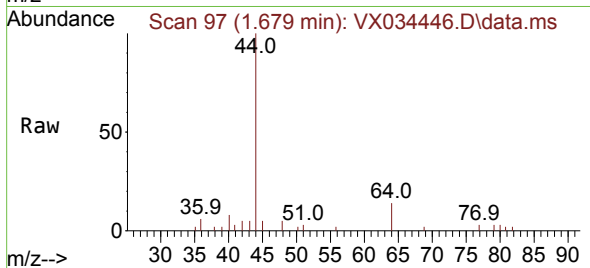




#6
Chloroethane
Concen: 0.213 ug/l
RT: 1.679 min Scan# 91
Delta R.T. 0.001 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

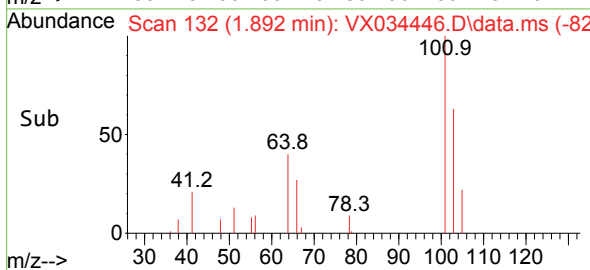
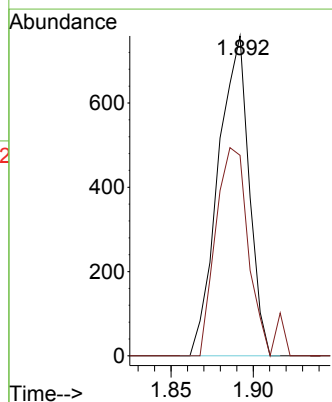
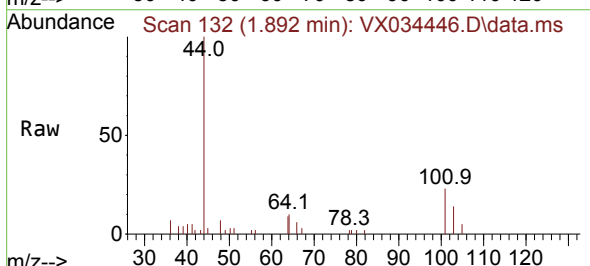
Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20230309

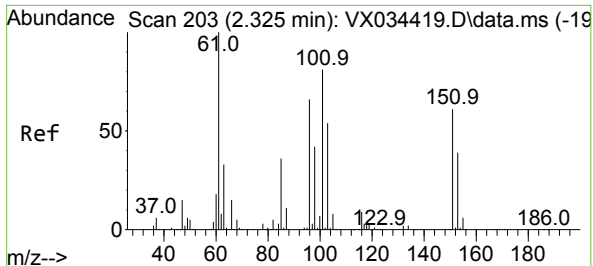
Tgt Ion: 64 Resp: 404
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#7
Trichlorofluoromethane
Concen: 0.200 ug/l
RT: 1.892 min Scan# 132
Delta R.T. 0.006 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

Tgt Ion:101 Resp: 990
Ion Ratio Lower Upper
101 100
103 62.7 52.0 78.0

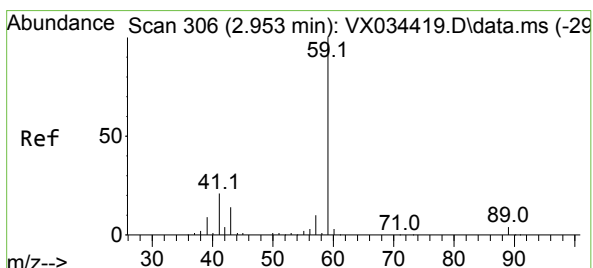
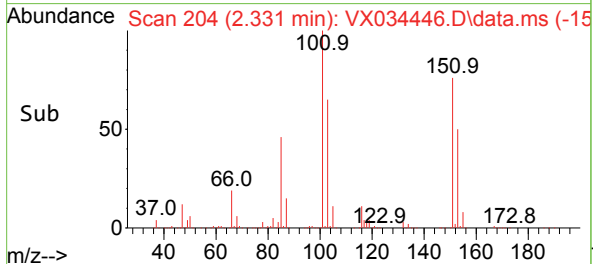
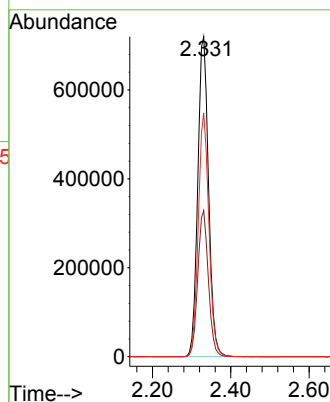
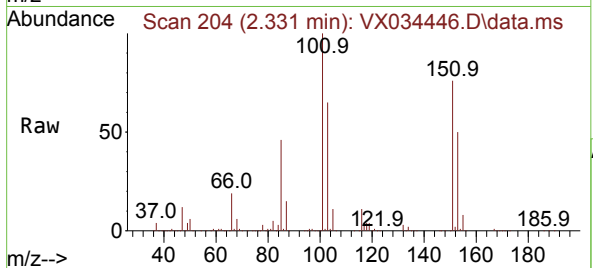




#9
1,1,2-Trichlorotrifluoroethane
Concen: 479.432 ug/l
RT: 2.331 min Scan# 203
Delta R.T. 0.006 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

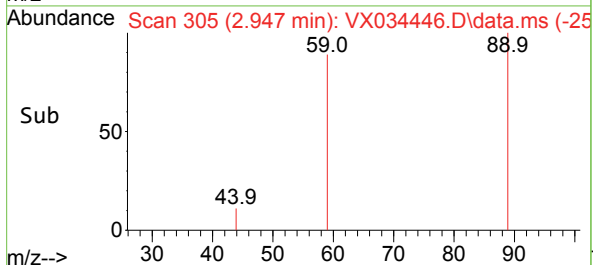
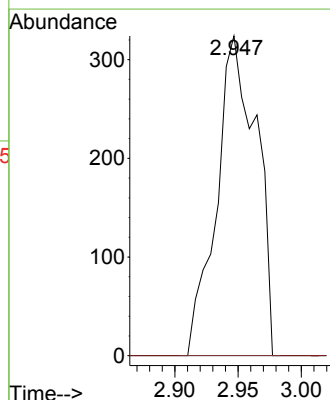
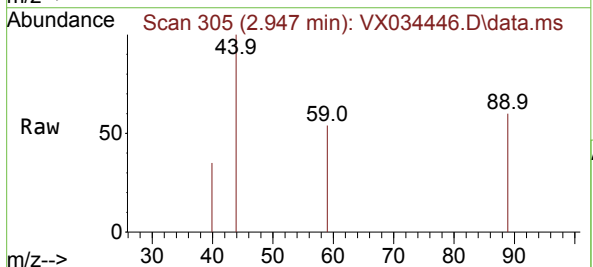
Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20230309

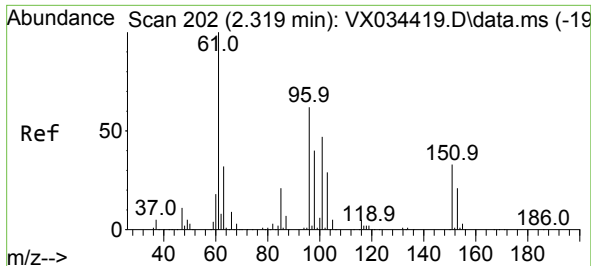
Tgt Ion:101 Resp: 1379942
Ion Ratio Lower Upper
101 100
85 45.0 35.4 53.2
151 75.3 60.2 90.4



#11
Tert butyl alcohol
Concen: 0.905 ug/l
RT: 2.947 min Scan# 305
Delta R.T. -0.006 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

Tgt Ion: 59 Resp: 710
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

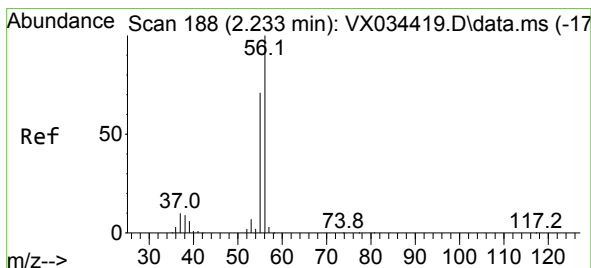
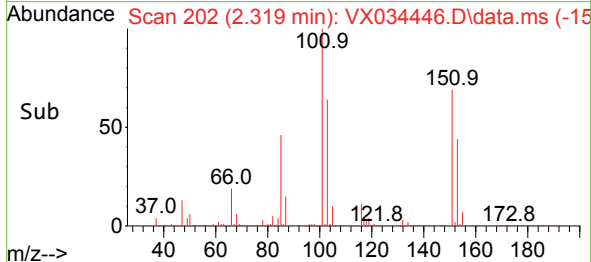
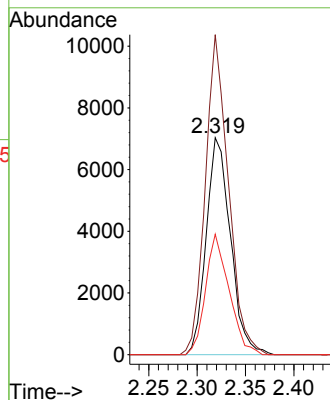
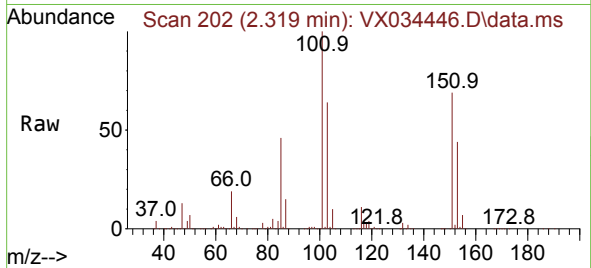




#12
1,1-Dichloroethene
Concen: 4.337 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

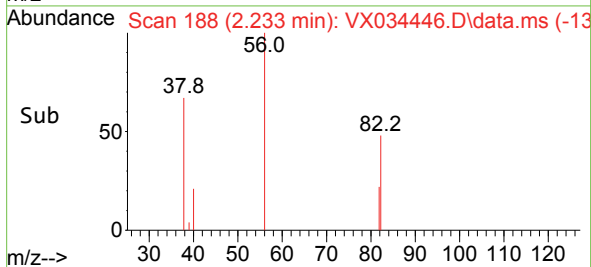
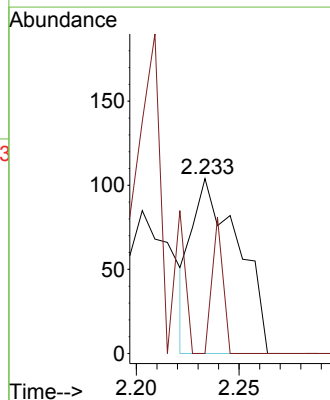
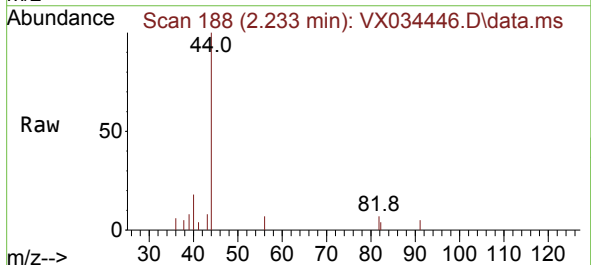
Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20230309

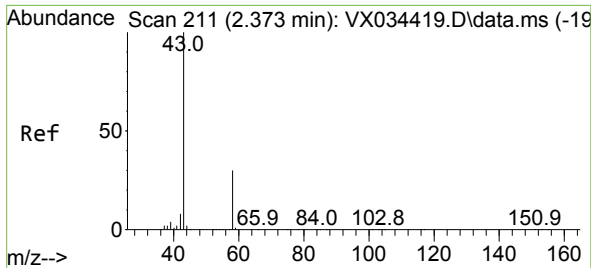
Tgt Ion: 96 Resp: 12293
Ion Ratio Lower Upper
96 100
61 147.5 128.8 193.2
98 55.5 51.4 77.0



#13
Acrolein
Concen: 0.264 ug/l
RT: 2.233 min Scan# 188
Delta R.T. 0.000 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

Tgt Ion: 56 Resp: 164
Ion Ratio Lower Upper
56 100
55 18.3 56.6 85.0#





#16

Acetone

Concen: 2.152 ug/l

RT: 2.380 min Scan# 211

Delta R.T. 0.006 min

Lab File: VX034446.D

Acq: 13 Mar 2023 20:30

Instrument :

MSVOA_X

ClientSampleId :

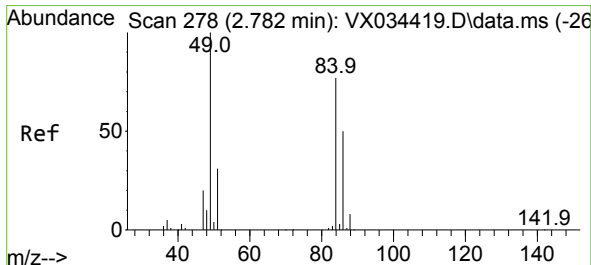
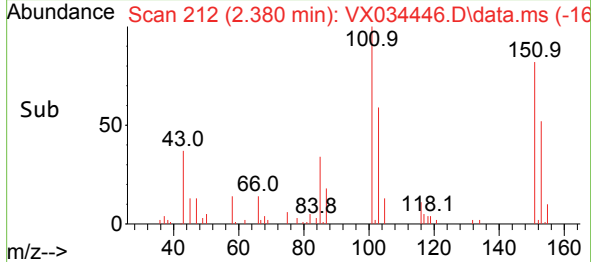
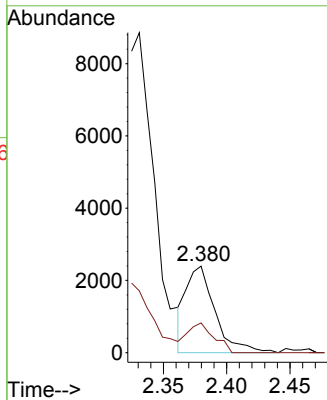
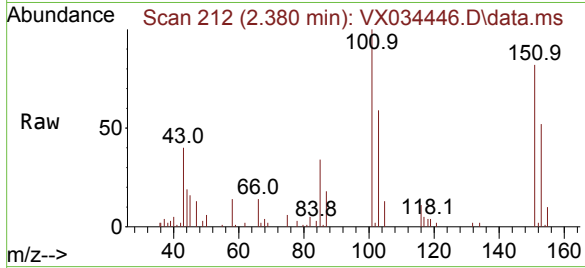
RE134D3-20230309

Tgt Ion: 43 Resp: 3818

Ion Ratio Lower Upper

43 100

58 34.4 24.7 37.1



#20

Methylene Chloride

Concen: 0.217 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX034446.D

Acq: 13 Mar 2023 20:30

Tgt Ion: 84 Resp: 747

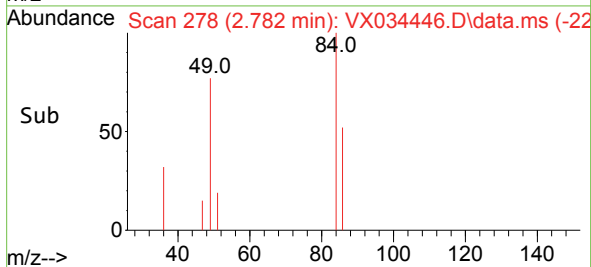
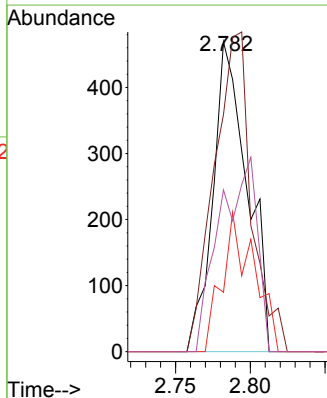
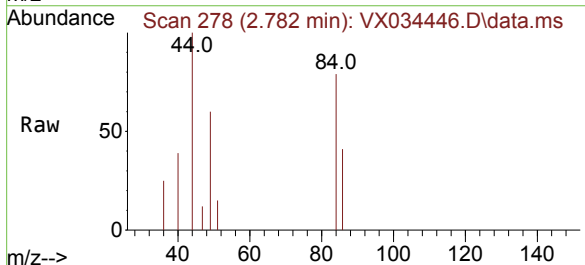
Ion Ratio Lower Upper

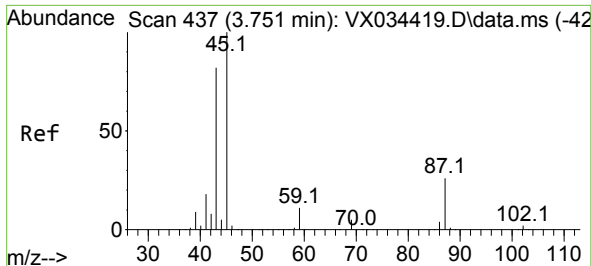
84 100

49 76.5 103.8 155.8#

51 19.2 31.8 47.8#

86 52.2 51.4 77.2

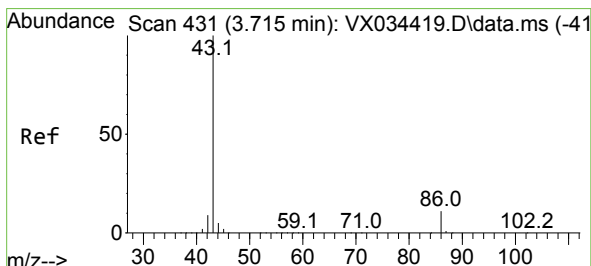
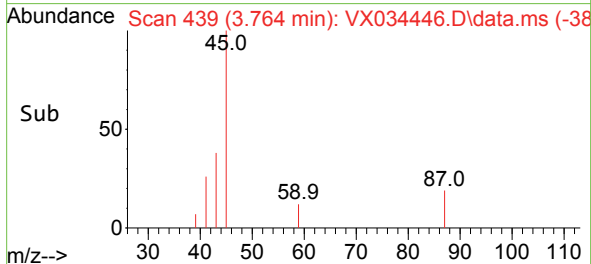
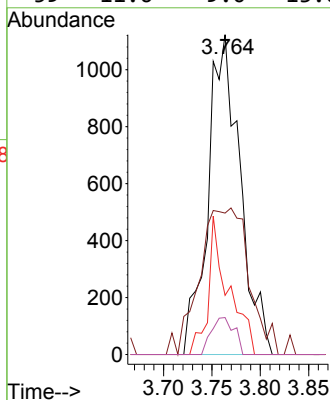
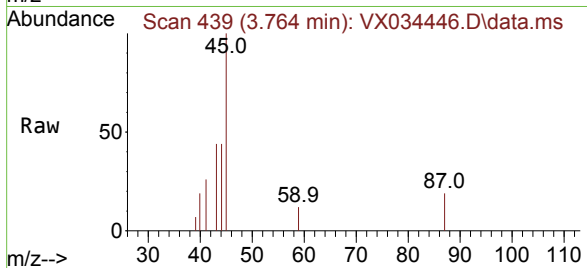




#22
Diisopropyl ether
Concen: 0.237 ug/l
RT: 3.764 min Scan# 41
Delta R.T. 0.012 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

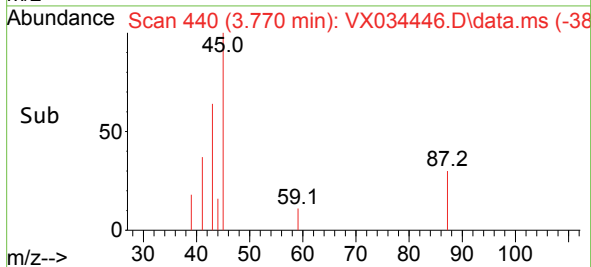
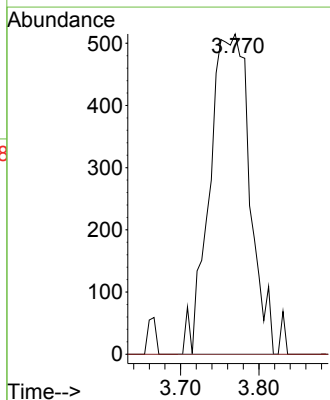
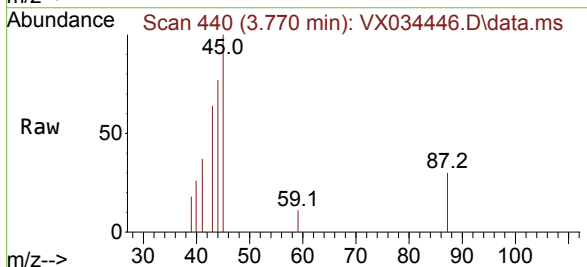
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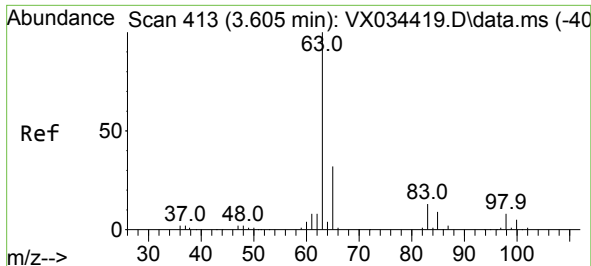
Tgt Ion:	45	Resp:	2593
Ion	Ratio	Lower	Upper
45	100		
43	44.3	65.4	98.2#
87	18.5	20.6	31.0#
59	11.6	9.0	13.6



#23
Vinyl Acetate
Concen: 0.219 ug/l
RT: 3.770 min Scan# 440
Delta R.T. 0.055 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

Tgt Ion:	43	Resp:	1829
Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.5	12.7#





#24

1,1-Dichloroethane

Concen: 0.347 ug/l

RT: 3.611 min Scan# 413

Delta R.T. 0.006 min

Lab File: VX034446.D

Acq: 13 Mar 2023 20:30

Instrument :

MSVOA_X

ClientSampleId :

RE134D3-20230309

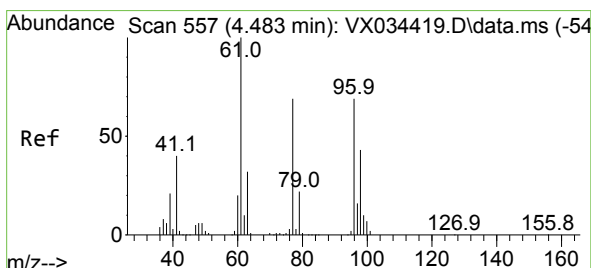
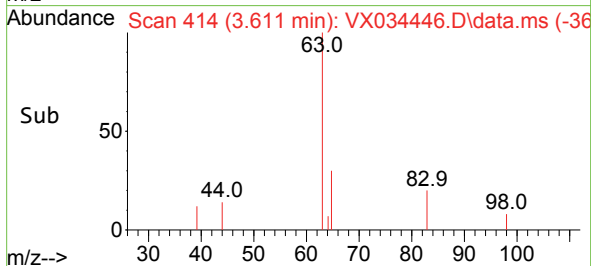
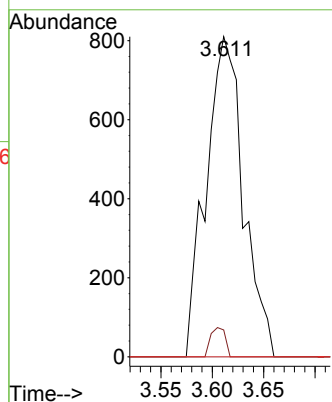
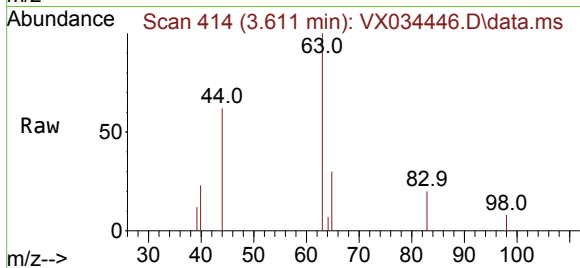
Tgt Ion: 63 Resp: 2043

Ion Ratio Lower Upper

63 100

98 8.4 3.8 11.2

100 0.0 2.4 7.1#



#27

cis-1,2-Dichloroethene

Concen: 3.928 ug/l

RT: 4.489 min Scan# 558

Delta R.T. 0.006 min

Lab File: VX034446.D

Acq: 13 Mar 2023 20:30

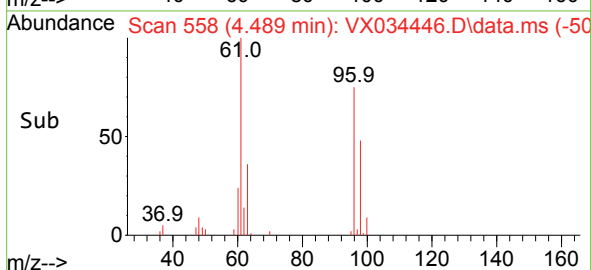
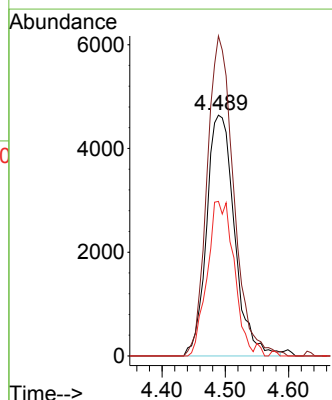
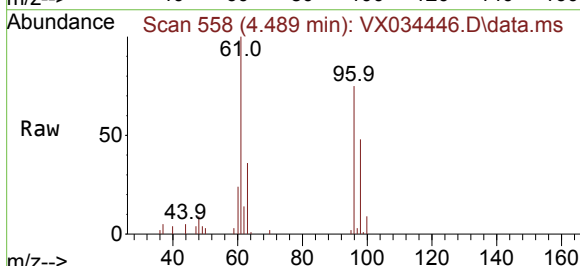
Tgt Ion: 96 Resp: 14234

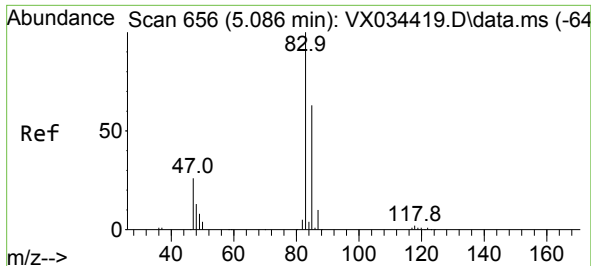
Ion Ratio Lower Upper

96 100

61 126.8 0.0 300.4

98 61.4 0.0 129.0





#30

Chloroform

Concen: 0.313 ug/l

RT: 5.099 min Scan# 61

Delta R.T. 0.012 min

Lab File: VX034446.D

Acq: 13 Mar 2023 20:30

Instrument :

MSVOA_X

ClientSampleId :

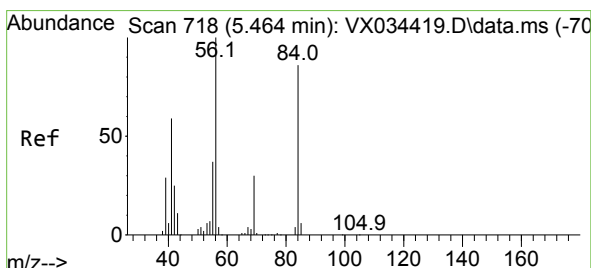
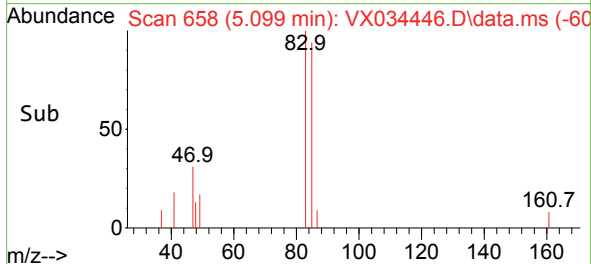
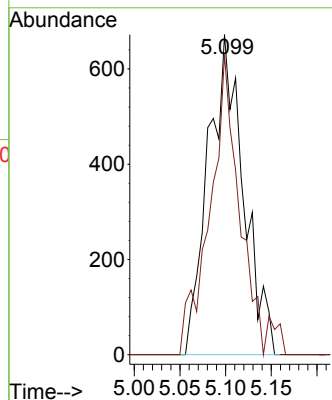
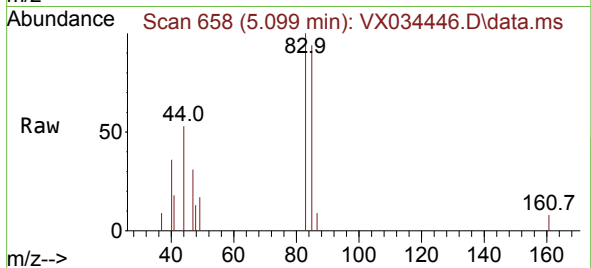
RE134D3-20230309

Tgt Ion: 83 Resp: 1805

Ion Ratio Lower Upper

83 100

85 93.8 50.6 76.0#



#31

Cyclohexane

Concen: 1.062 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.079 min

Lab File: VX034446.D

Acq: 13 Mar 2023 20:30

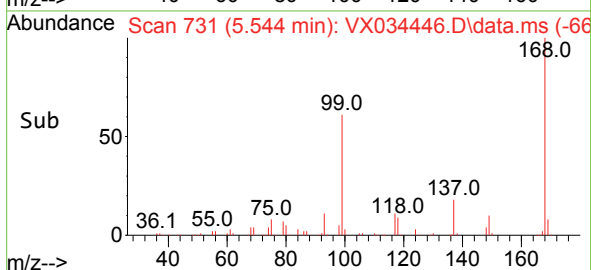
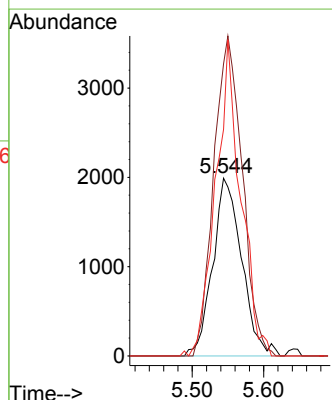
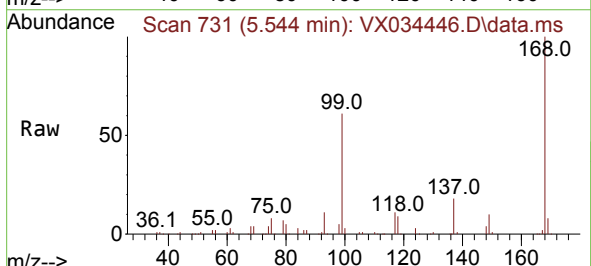
Tgt Ion: 56 Resp: 5609

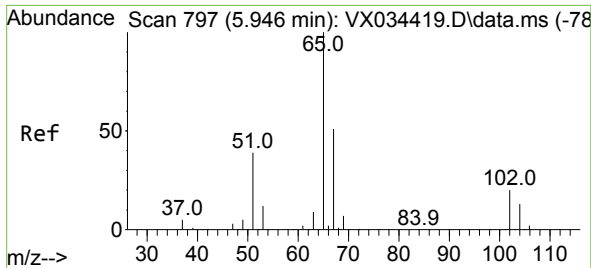
Ion Ratio Lower Upper

56 100

69 164.4 23.7 35.5#

84 127.5 68.5 102.7#

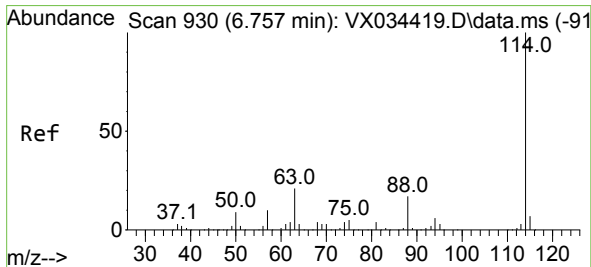
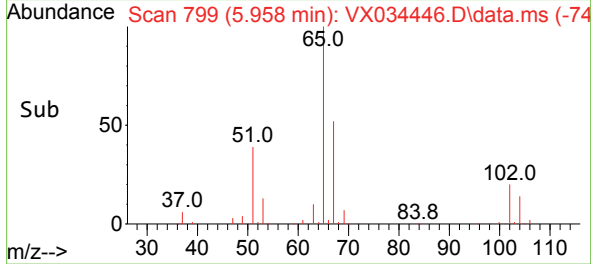
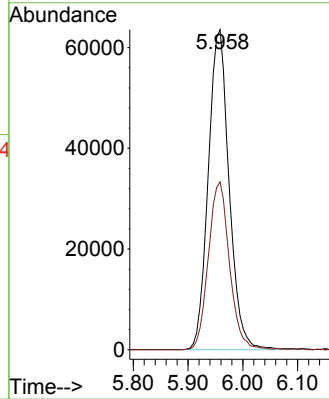
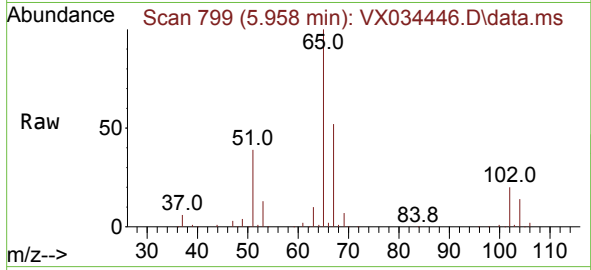




#33
 1,2-Dichloroethane-d4
 Concen: 44.434 ug/l
 RT: 5.958 min Scan# 799
 Delta R.T. 0.012 min
 Lab File: VX034446.D
 Acq: 13 Mar 2023 20:30

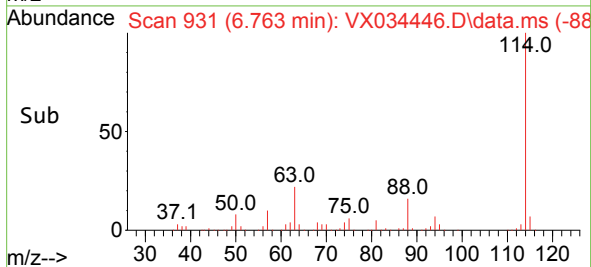
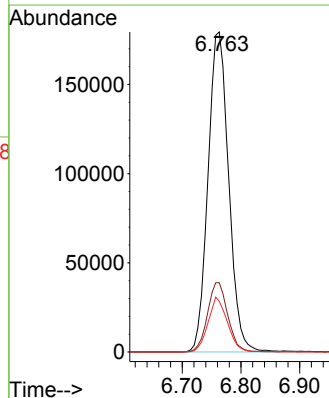
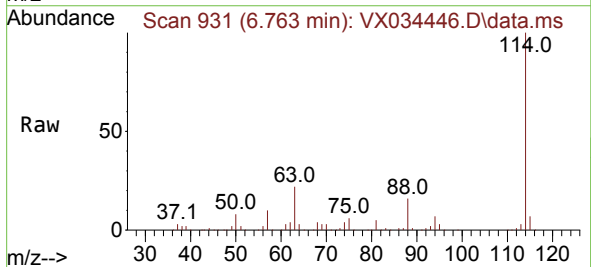
Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D3-20230309

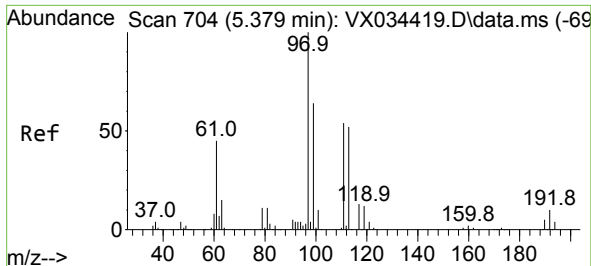
Tgt Ion: 65 Resp: 167384
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.763 min Scan# 931
 Delta R.T. 0.006 min
 Lab File: VX034446.D
 Acq: 13 Mar 2023 20:30

Tgt Ion: 114 Resp: 438695
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 42.2
 88 15.8 0.0 33.2

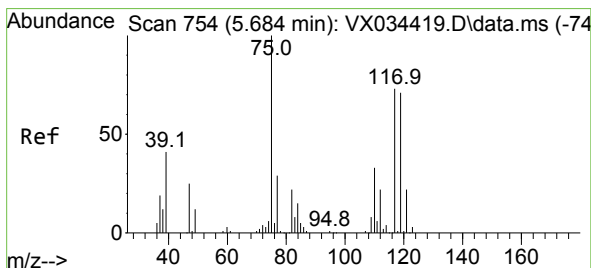
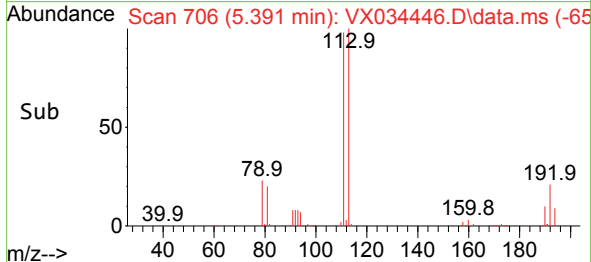
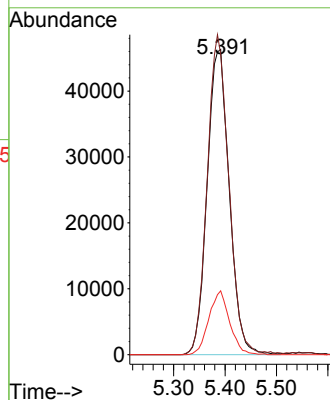
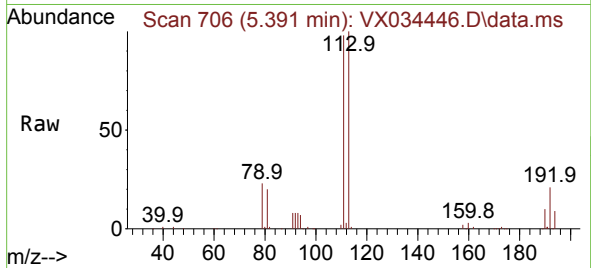




#35
Dibromofluoromethane
Concen: 47.864 ug/l
RT: 5.391 min Scan# 704
Delta R.T. 0.012 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

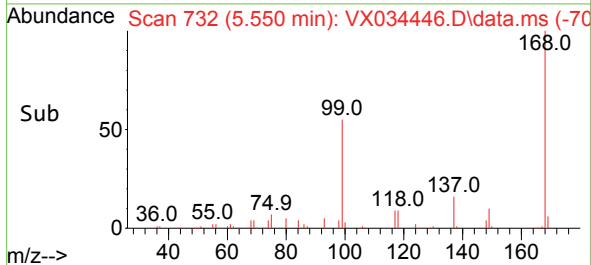
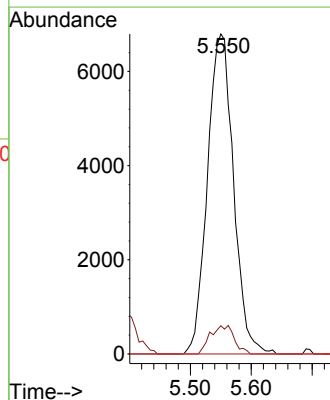
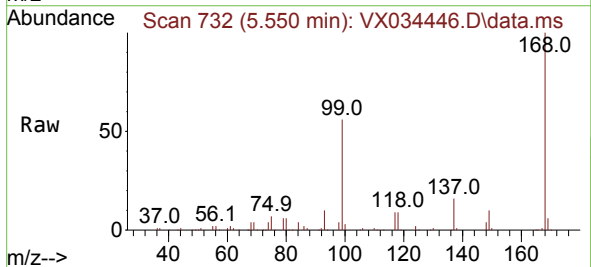
Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20230309

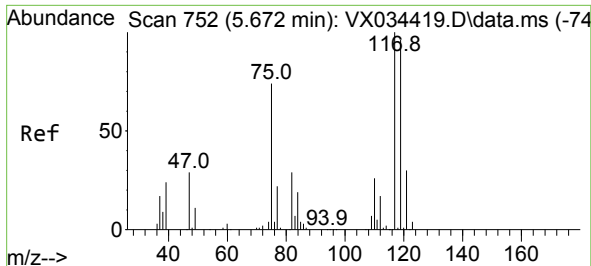
Tgt Ion:113 Resp: 138636
Ion Ratio Lower Upper
113 100
111 102.5 83.7 125.5
192 19.7 15.4 23.2



#36
1,1-Dichloropropene
Concen: 4.539 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.134 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

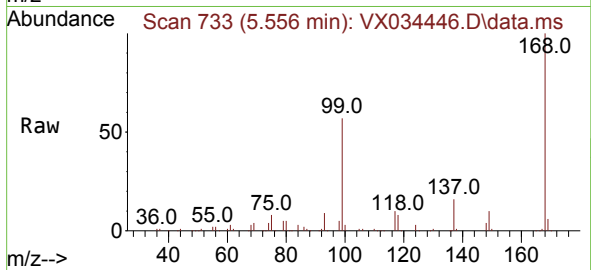
Tgt Ion: 75 Resp: 20192
Ion Ratio Lower Upper
75 100
110 8.1 17.5 52.5#
77 0.0 24.3 36.5#



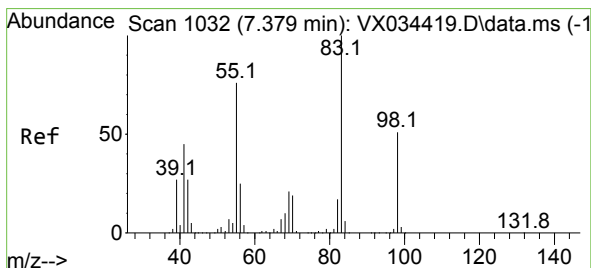
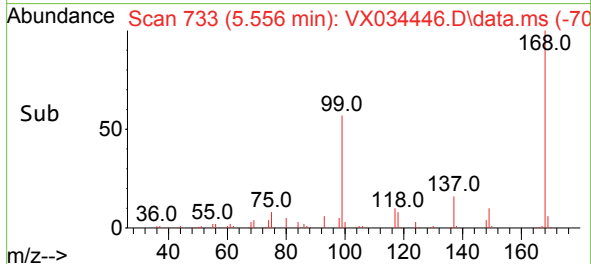
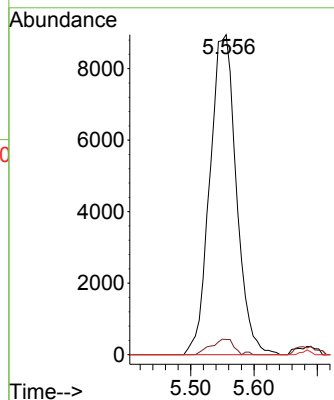


#38
Carbon Tetrachloride
Concen: 5.880 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.116 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20230309

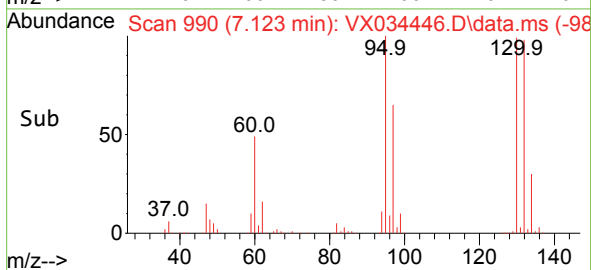
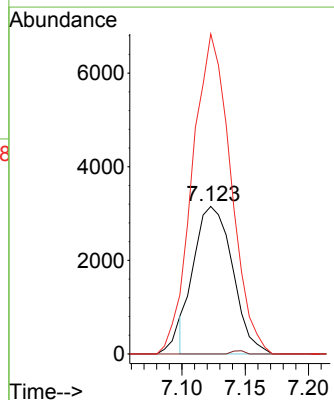
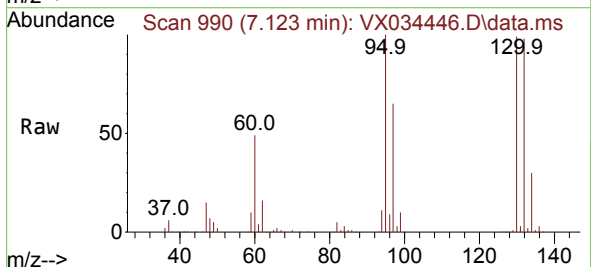


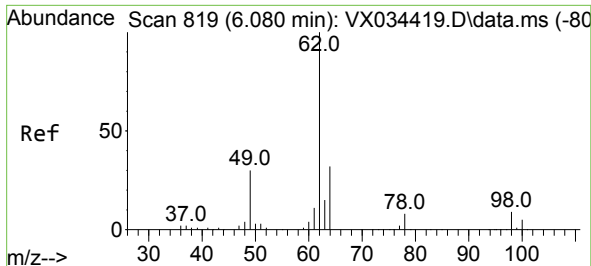
Tgt Ion:117 Resp: 26025
Ion Ratio Lower Upper
117 100
119 4.8 76.6 114.8#
121 0.0 23.8 35.6#



#39
Methylcyclohexane
Concen: 1.256 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.256 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

Tgt Ion: 83 Resp: 6688
Ion Ratio Lower Upper
83 100
55 0.0 60.5 90.7#
98 216.9 40.4 60.6#





#42

1,2-Dichloroethane

Concen: 0.392 ug/l

RT: 6.092 min Scan# 819

Delta R.T. 0.012 min

Lab File: VX034446.D

Acq: 13 Mar 2023 20:30

Instrument :

MSVOA_X

ClientSampleId :

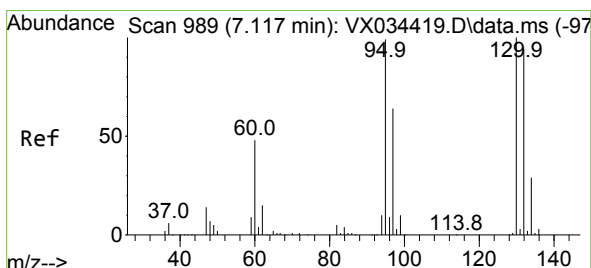
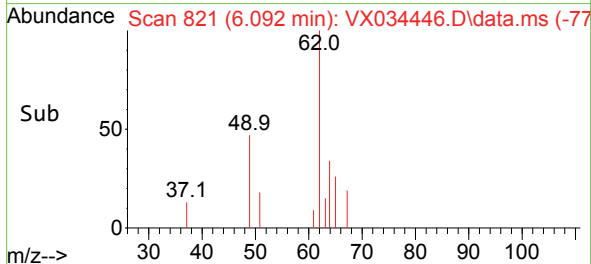
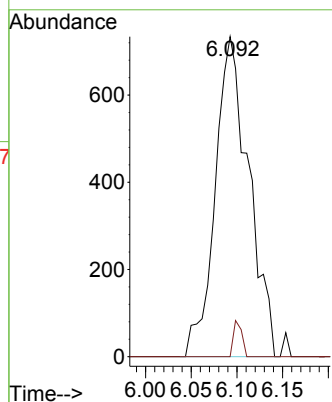
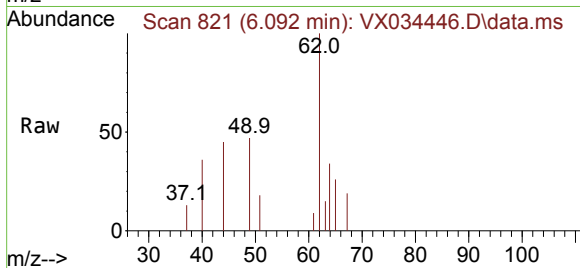
RE134D3-20230309

Tgt Ion: 62 Resp: 1875

Ion Ratio Lower Upper

62 100

98 2.8 0.0 18.0



#44

Trichloroethene

Concen: 168.973 ug/l

RT: 7.129 min Scan# 991

Delta R.T. 0.012 min

Lab File: VX034446.D

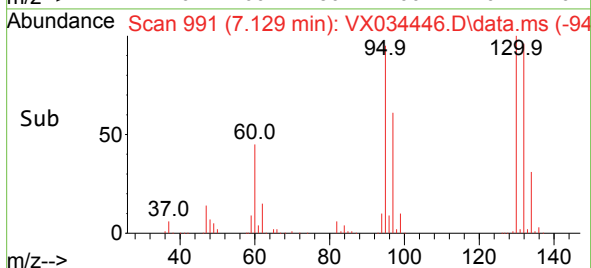
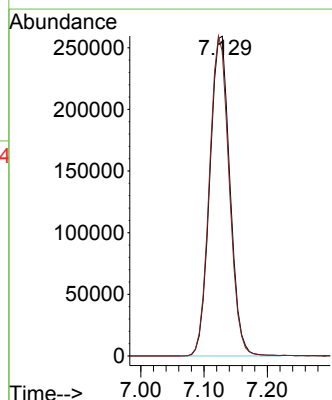
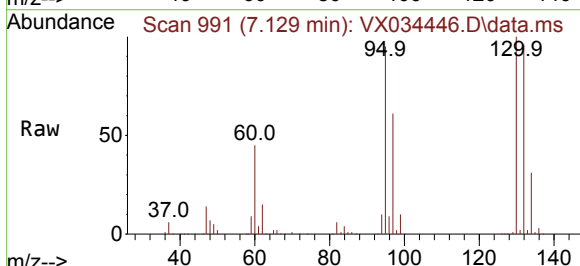
Acq: 13 Mar 2023 20:30

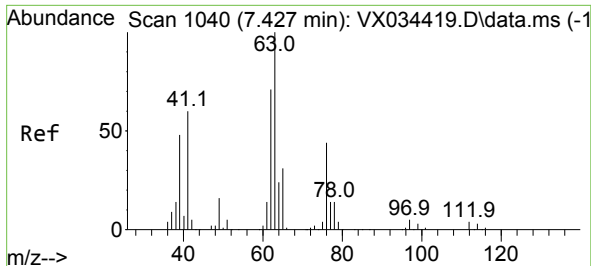
Tgt Ion:130 Resp: 571378

Ion Ratio Lower Upper

130 100

95 95.2 0.0 198.4

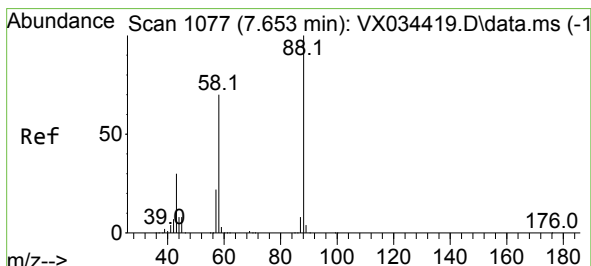
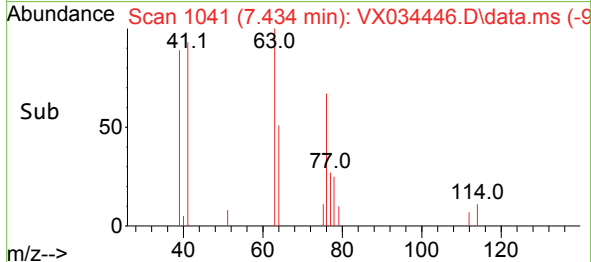
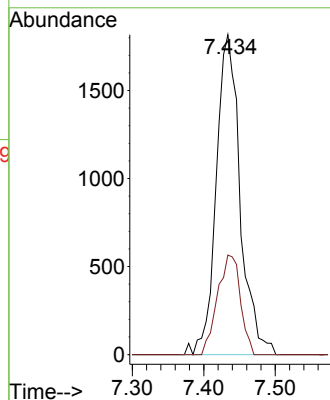
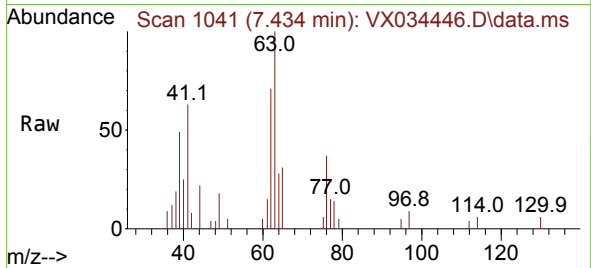




#45
1,2-Dichloropropane
Concen: 1.245 ug/l
RT: 7.434 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

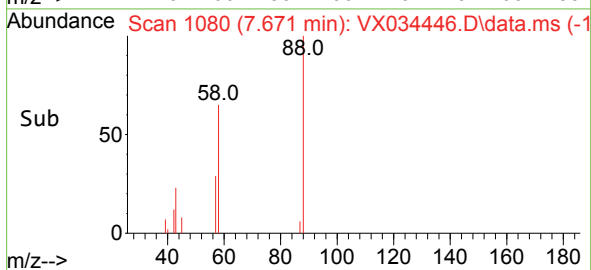
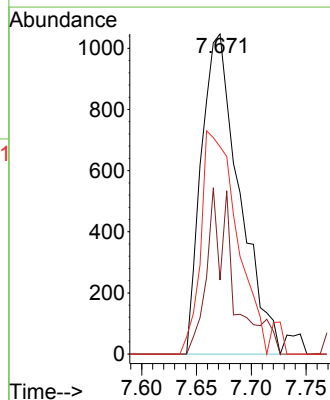
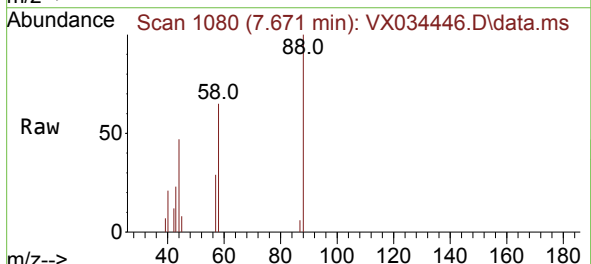
Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20230309

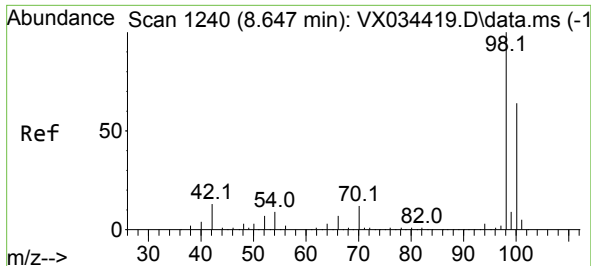
Tgt Ion: 63 Resp: 4229
Ion Ratio Lower Upper
63 100
65 31.2 24.6 37.0



#49
1,4-Dioxane
Concen: 30.299 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. 0.018 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

Tgt Ion: 88 Resp: 2520
Ion Ratio Lower Upper
88 100
43 36.3 27.7 41.5
58 66.5 56.8 85.2

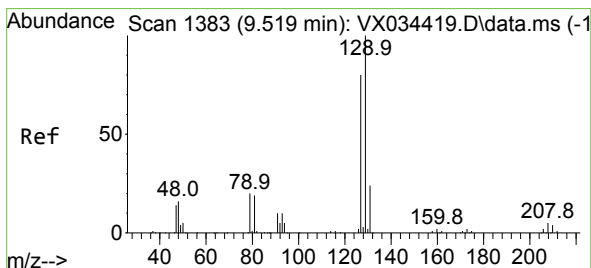
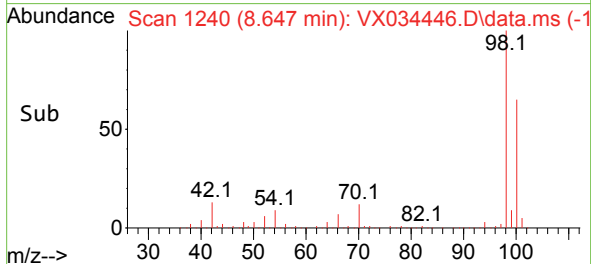
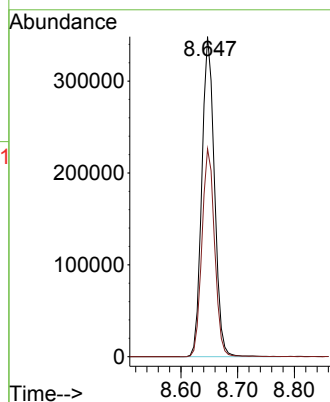
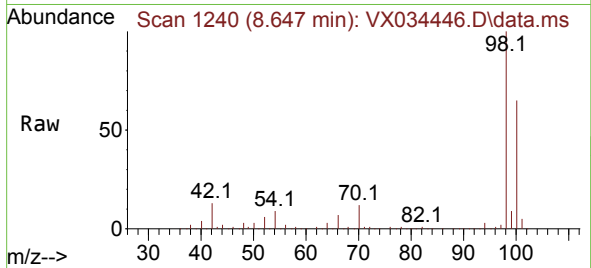




#50
Toluene-d8
Concen: 49.695 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

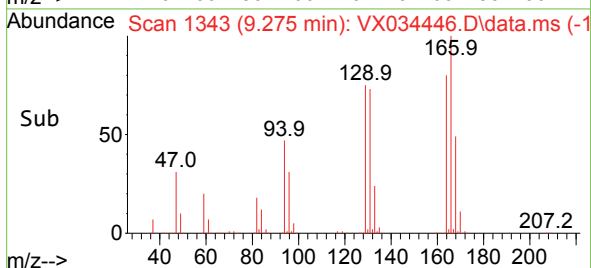
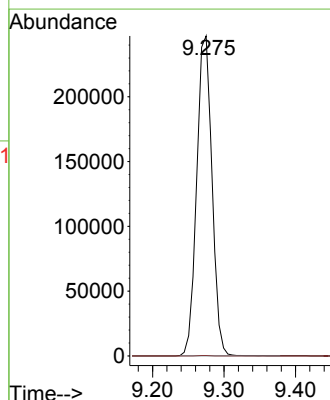
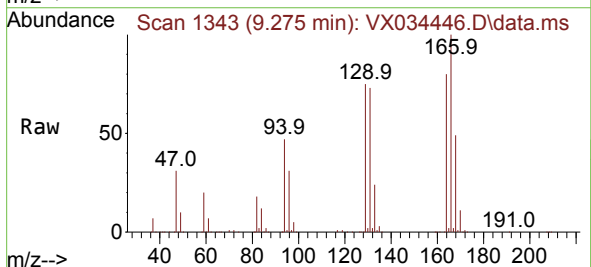
Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20230309

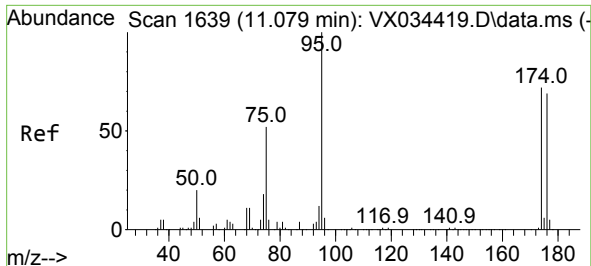
Tgt Ion: 98 Resp: 537334
Ion Ratio Lower Upper
98 100
100 65.4 52.5 78.7



#60
Dibromochloromethane
Concen: 109.109 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.244 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

Tgt Ion: 129 Resp: 365918
Ion Ratio Lower Upper
129 100
127 0.1 39.0 117.0#

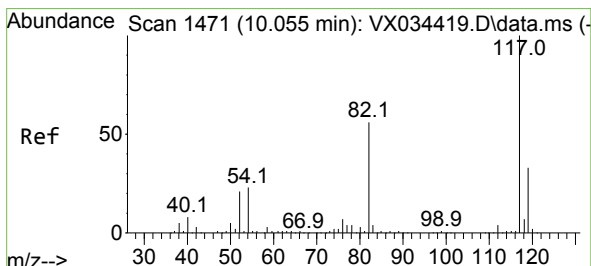
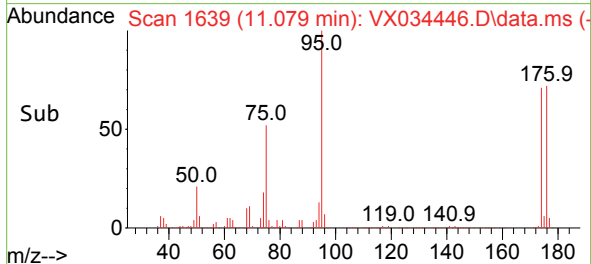
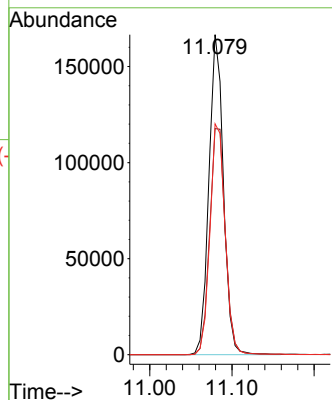
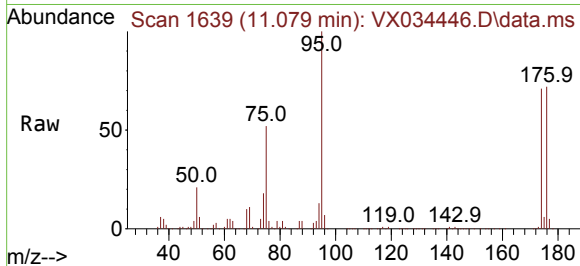




#62
4-Bromofluorobenzene
Concen: 46.715 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

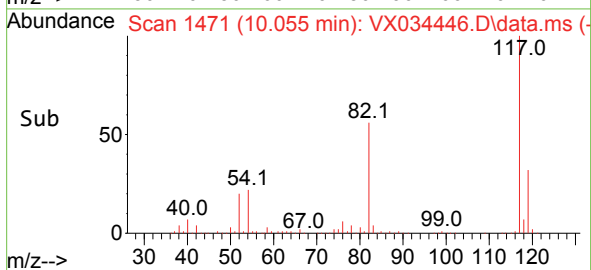
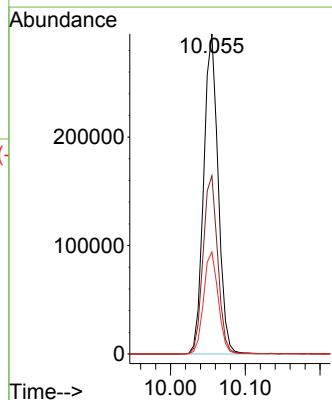
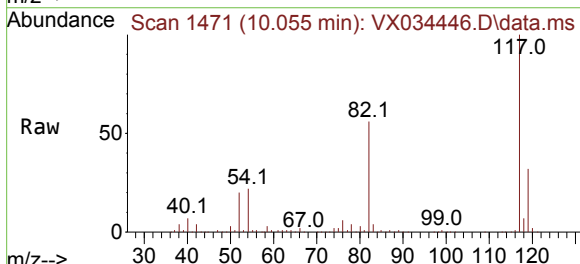
Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20230309

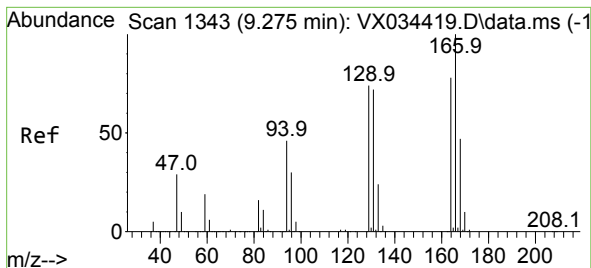
Tgt Ion: 95 Resp: 204028
Ion Ratio Lower Upper
95 100
174 76.6 0.0 147.4
176 75.6 0.0 140.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

Tgt Ion: 117 Resp: 397110
Ion Ratio Lower Upper
117 100
82 55.7 45.0 67.4
119 31.9 26.0 39.0





#64

Tetrachloroethene

Concen: 142.044 ug/l

RT: 9.275 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX034446.D

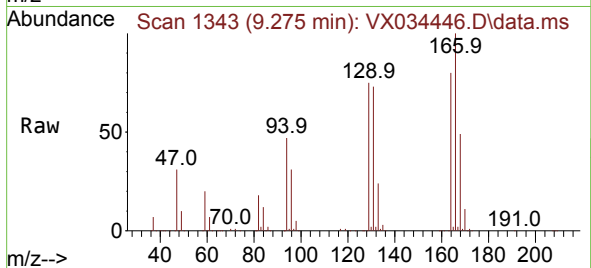
Acq: 13 Mar 2023 20:30

Instrument :

MSVOA_X

ClientSampleId :

RE134D3-20230309



Tgt Ion:164 Resp: 378908

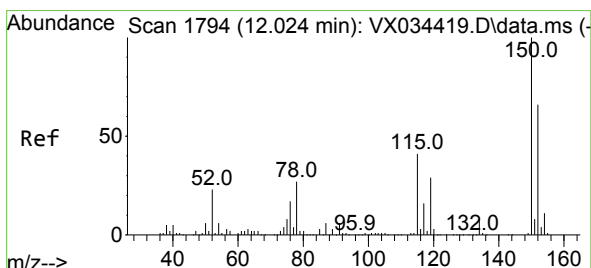
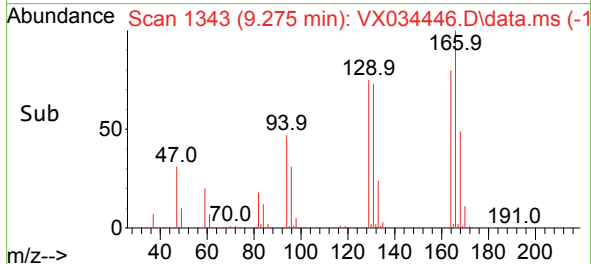
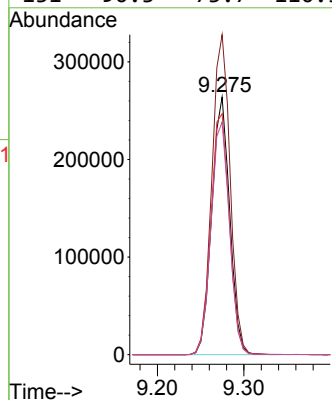
Ion Ratio Lower Upper

164 100

166 124.2 102.7 154.1

129 93.6 75.6 113.4

131 90.3 73.7 110.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX034446.D

Acq: 13 Mar 2023 20:30

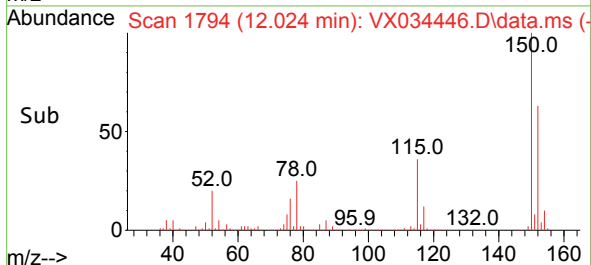
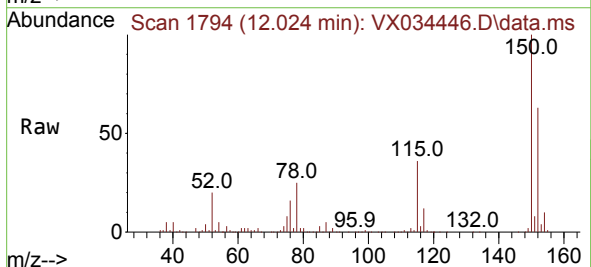
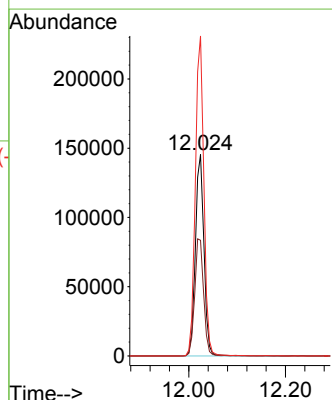
Tgt Ion:152 Resp: 178211

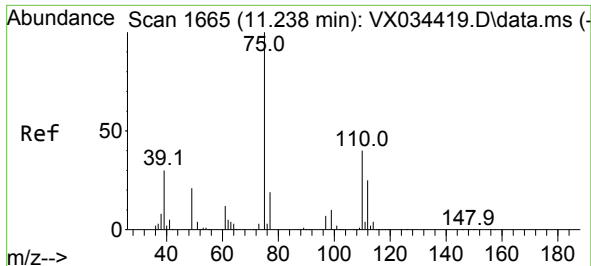
Ion Ratio Lower Upper

152 100

115 60.4 45.0 135.0

150 157.5 0.0 352.4

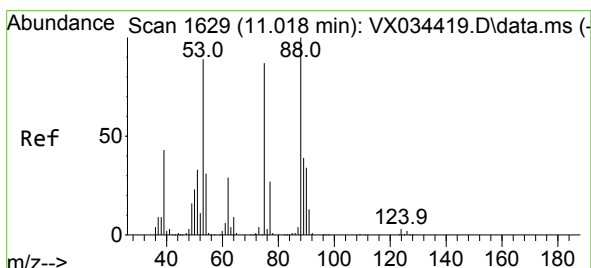
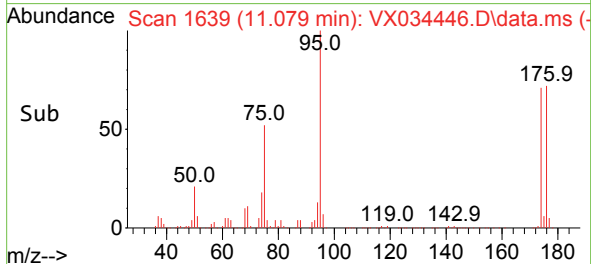
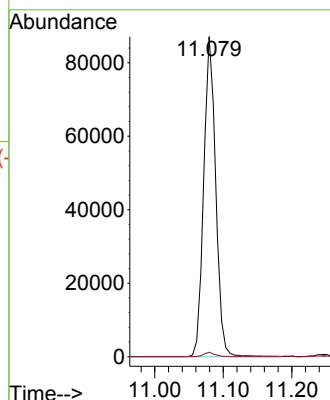
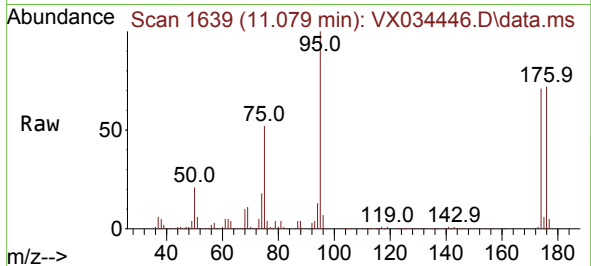




#76
1,2,3-Trichloropropane
Concen: 25.991 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20230309

Tgt Ion: 75 Resp: 106352
Ion Ratio Lower Upper
75 100
77 1.3 21.6 64.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.313 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX034446.D
Acq: 13 Mar 2023 20:30

Tgt Ion: 75 Resp: 106352
Ion Ratio Lower Upper
75 100
53 0.0 82.6 124.0#
89 0.0 36.9 55.3#

