

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022224\
 Data File : VX040400.D
 Acq On : 22 Feb 2024 14:40
 Operator : JC/MD
 Sample : P1520-09DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D1-20240216DL

Quant Time: Feb 23 00:07:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X020924W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 12 00:21:14 2024
 Response via : Initial Calibration

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

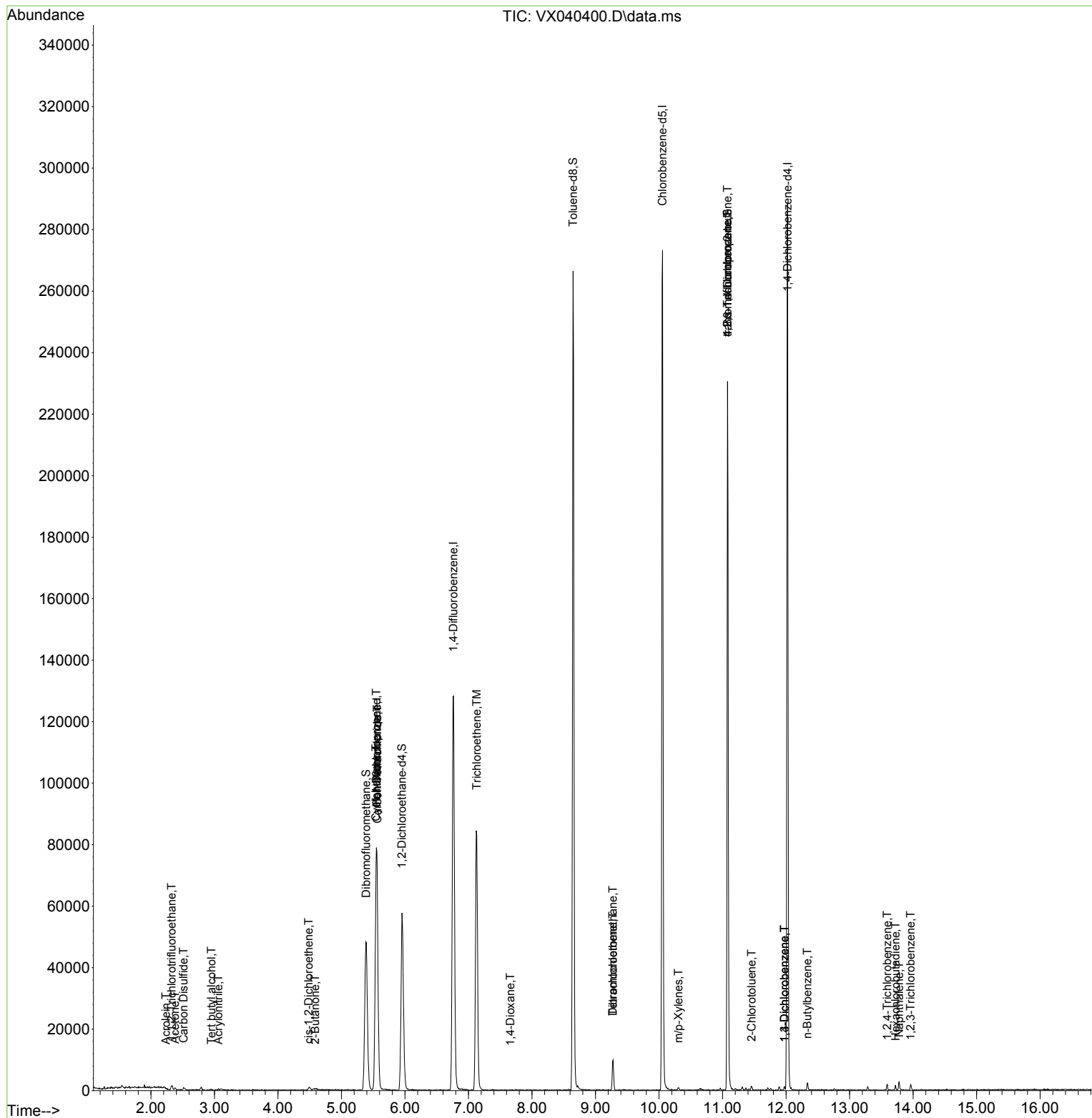
Internal Standards						
1) Pentafluorobenzene	5.556	168	72600	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	125274	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	119568	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	57060	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	56054	51.898	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	103.800%
35) Dibromofluoromethane	5.385	113	42007	48.016	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.040%
50) Toluene-d8	8.647	98	154938	47.345	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	94.680%
62) 4-Bromofluorobenzene	11.079	95	58249	43.643	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	87.280%
Target Compounds						
						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.325	101	555	0.721	ug/l	92
11) Tert butyl alcohol	2.952	59	162	0.770	ug/l #	78
13) Acrolein	2.233	56	55	0.283	ug/l #	53
15) Acrylonitrile	3.062	53	143	0.304	ug/l #	88
16) Acetone	2.379	43	566	1.276	ug/l	91
17) Carbon Disulfide	2.514	76	750	0.383	ug/l #	76
20) Methylene Chloride	2.782	84	378	Below Cal	#	54
25) 2-Butanone	4.586	43	140	0.202	ug/l #	51
27) cis-1,2-Dichloroethene	4.483	96	434	0.451	ug/l	79
31) Cyclohexane	5.543	56	2020	1.568	ug/l #	25
36) 1,1-Dichloropropene	5.550	75	6544	5.340	ug/l #	50
38) Carbon Tetrachloride	5.562	117	7783	6.679	ug/l #	15
44) Trichloroethene	7.129	130	32135	33.993	ug/l	99
49) 1,4-Dioxane	7.659	88	28	1.182	ug/l #	12
60) Dibromochloromethane	9.275	129	1667	1.709	ug/l #	11
64) Tetrachloroethene	9.275	164	1824	2.177	ug/l	86
68) m/p-Xylenes	10.305	106	339	0.202	ug/l #	66
76) 1,2,3-Trichloropropane	11.079	75	32869	28.446	ug/l #	39
79) 2-Chlorotoluene	11.457	91	613	0.209	ug/l	82
81) trans-1,4-Dichloro-2-b...	11.079	75	32869	77.758	ug/l #	5
87) 1,3-Dichlorobenzene	11.975	146	400	0.213	ug/l	75
88) 1,4-Dichlorobenzene	11.975	146	400	0.201	ug/l	74
89) n-Butylbenzene	12.335	91	1076	0.319	ug/l	94
93) 1,2,4-Trichlorobenzene	13.591	180	604	0.485	ug/l	98
94) Hexachlorobutadiene	13.725	225	280	0.563	ug/l	90
95) Naphthalene	13.780	128	2042	0.519	ug/l #	95
96) 1,2,3-Trichlorobenzene	13.963	180	573	0.482	ug/l	93

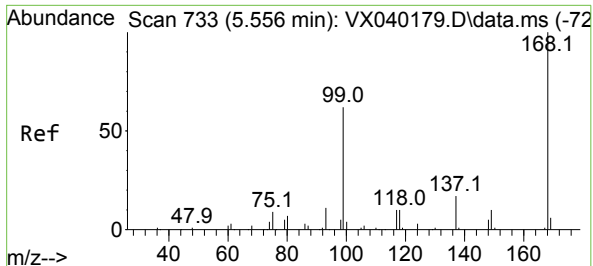
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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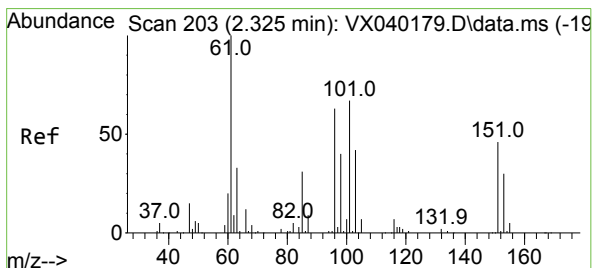
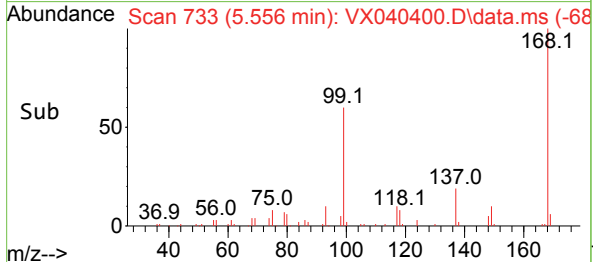
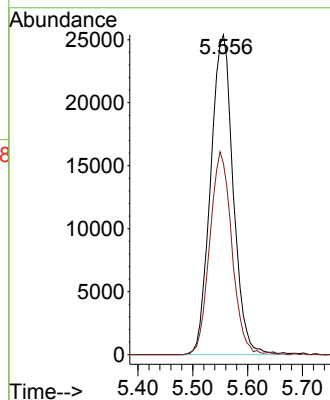
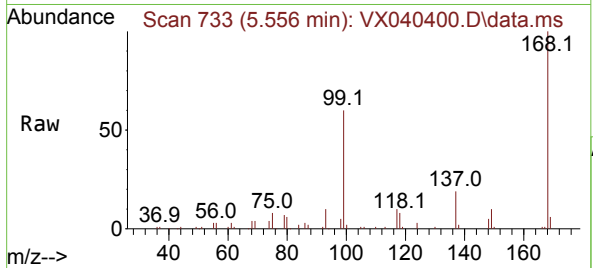




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

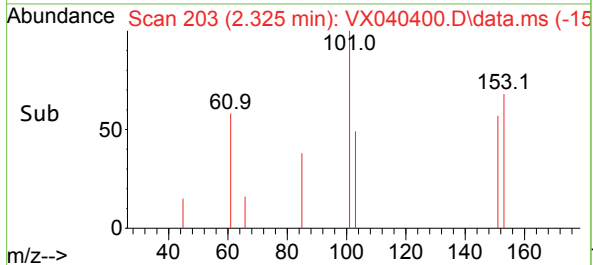
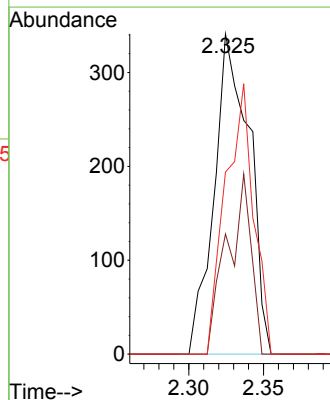
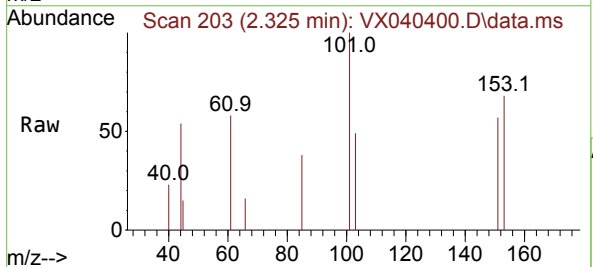
Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20240216DL

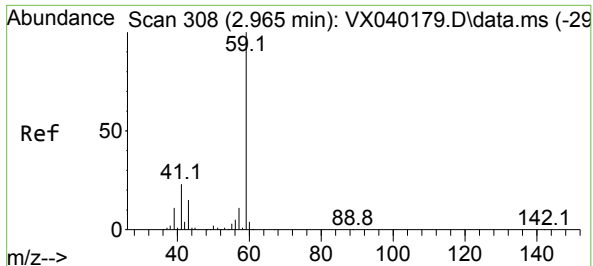
Tgt Ion:168 Resp: 72600
Ion Ratio Lower Upper
168 100
99 59.8 56.6 85.0



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.721 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

Tgt Ion:101 Resp: 555
Ion Ratio Lower Upper
101 100
85 38.7 37.0 55.6
151 67.7 58.6 87.8





#11

Tert butyl alcohol

Concen: 0.770 ug/l

RT: 2.952 min Scan# 308

Delta R.T. -0.012 min

Lab File: VX040400.D

Acq: 22 Feb 2024 14:40

Instrument :

MSVOA_X

ClientSampleId :

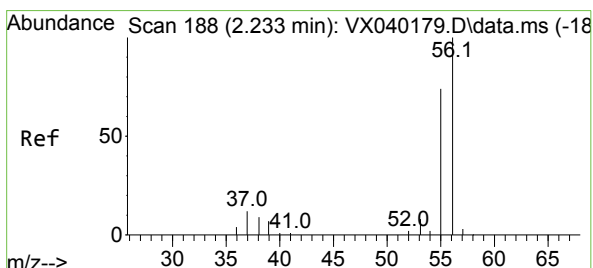
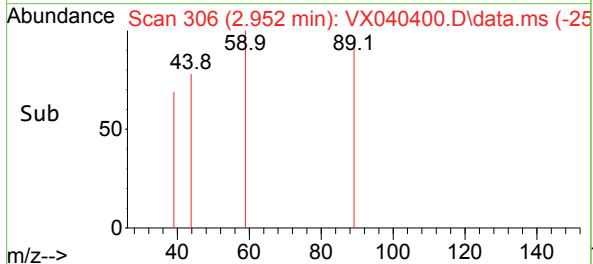
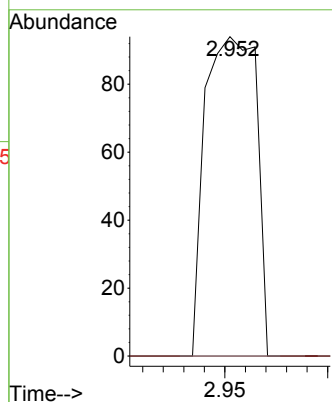
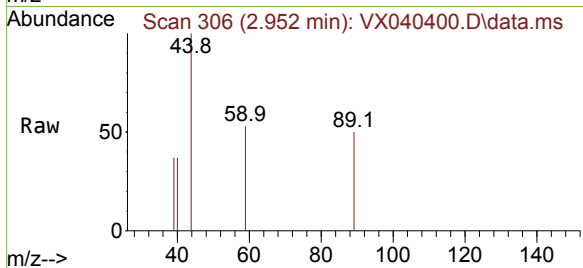
RE125D1-20240216DL

Tgt Ion: 59 Resp: 162

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#13

Acrolein

Concen: 0.283 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.000 min

Lab File: VX040400.D

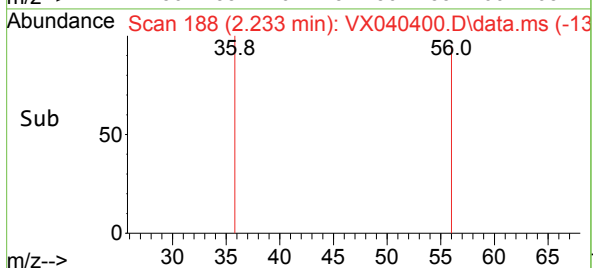
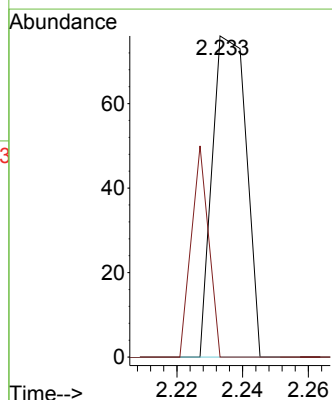
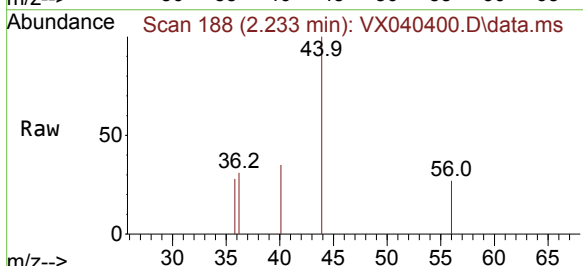
Acq: 22 Feb 2024 14:40

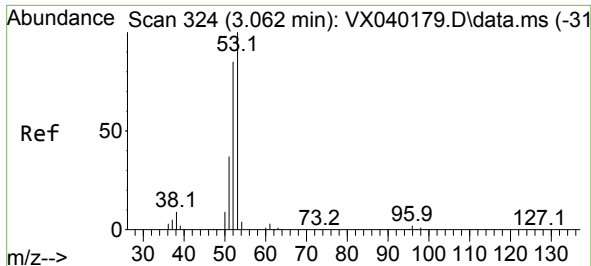
Tgt Ion: 56 Resp: 55

Ion Ratio Lower Upper

56 100

55 32.7 57.1 85.7#

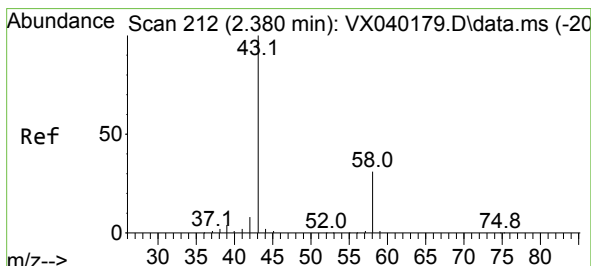
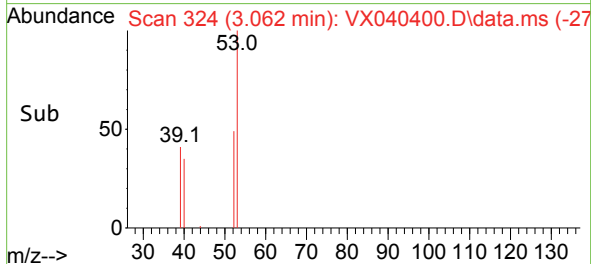
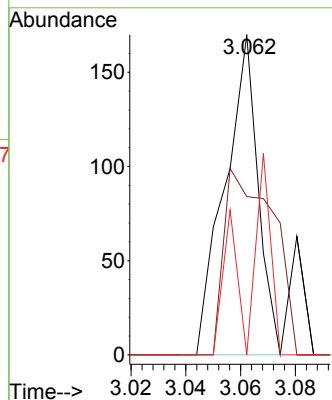
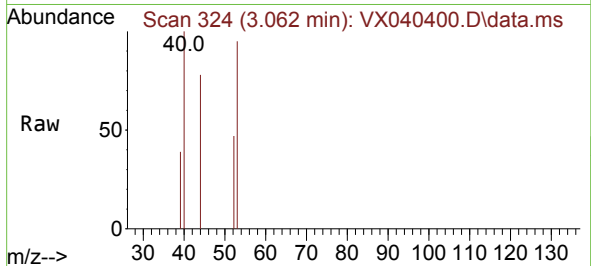




#15
Acrylonitrile
Concen: 0.304 ug/l
RT: 3.062 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

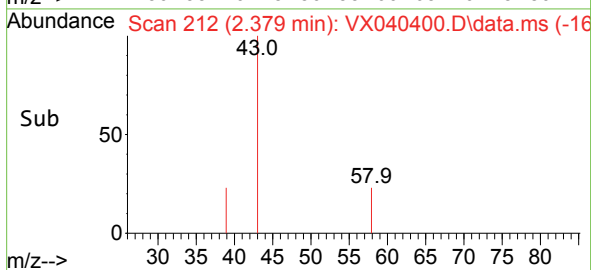
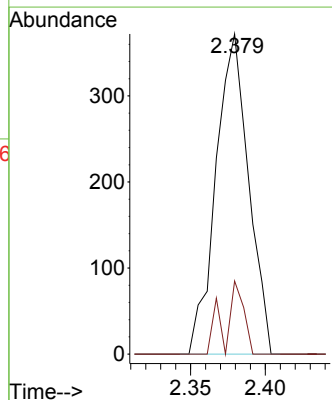
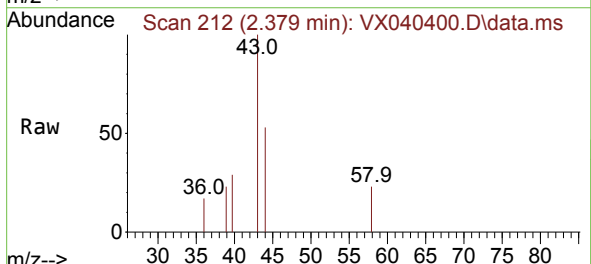
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MSVOA_X
ClientSampleId :
RE125D1-20240216DL

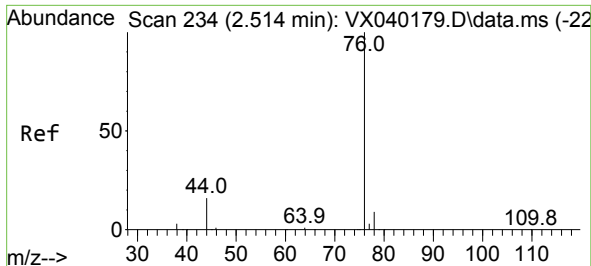
Tgt Ion: 53 Resp: 143
Ion Ratio Lower Upper
53 100
52 86.0 66.0 99.0
51 19.6 29.8 44.6#



#16
Acetone
Concen: 1.276 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

Tgt Ion: 43 Resp: 566
Ion Ratio Lower Upper
43 100
58 22.8 21.9 32.9





#17

Carbon Disulfide

Concen: 0.383 ug/l

RT: 2.514 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX040400.D

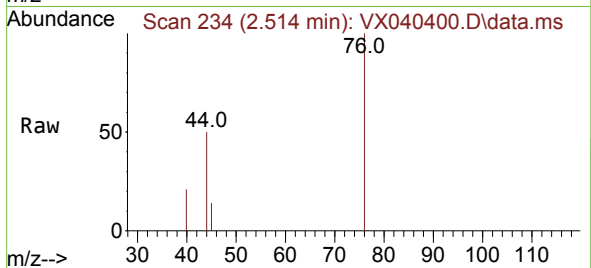
Acq: 22 Feb 2024 14:40

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20240216DL

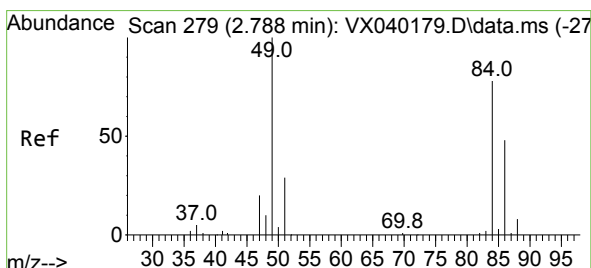
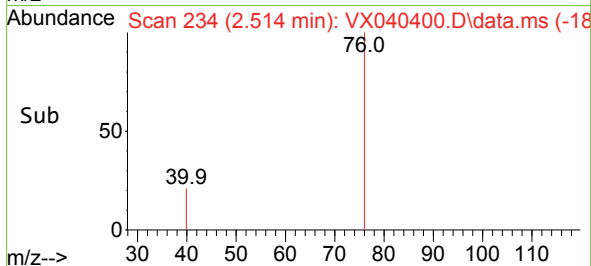
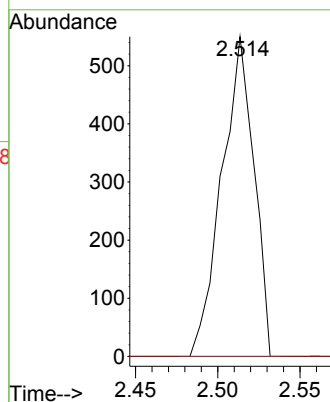


Tgt Ion: 76 Resp: 750

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.782 min Scan# 278

Delta R.T. -0.006 min

Lab File: VX040400.D

Acq: 22 Feb 2024 14:40

Tgt Ion: 84 Resp: 378

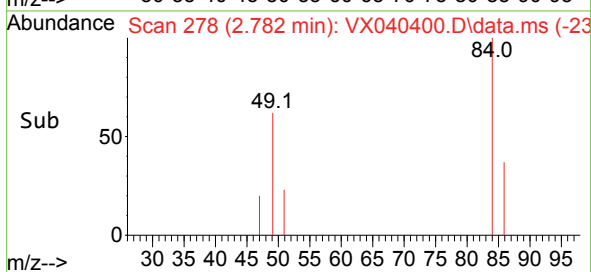
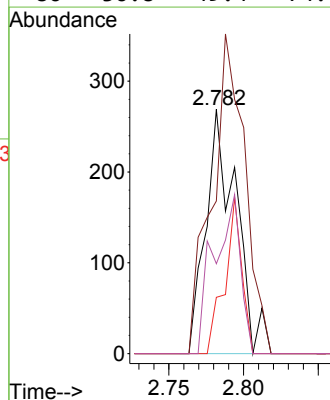
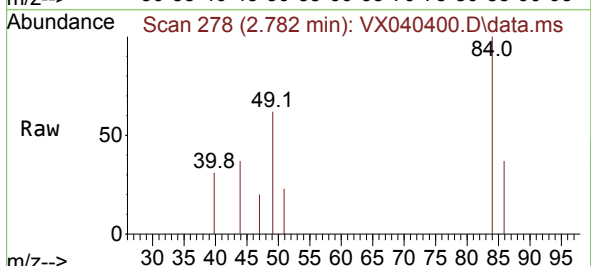
Ion Ratio Lower Upper

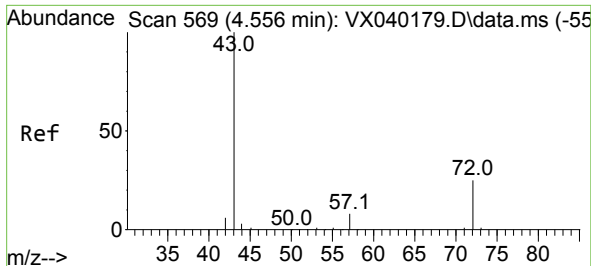
84 100

49 62.5 103.6 155.4#

51 23.0 33.8 50.6#

86 36.8 49.4 74.0#

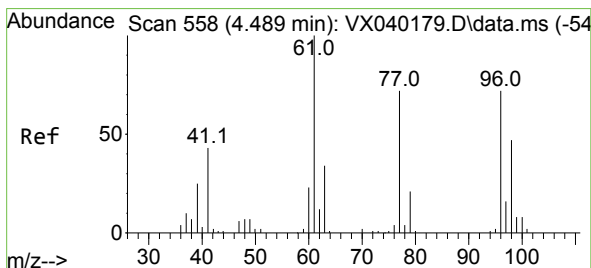
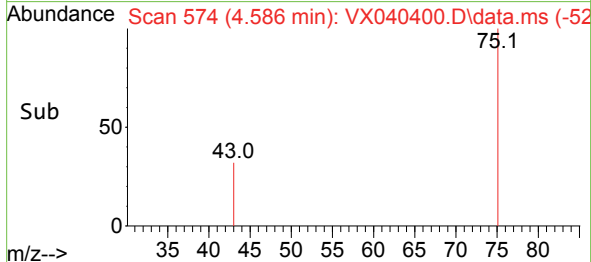
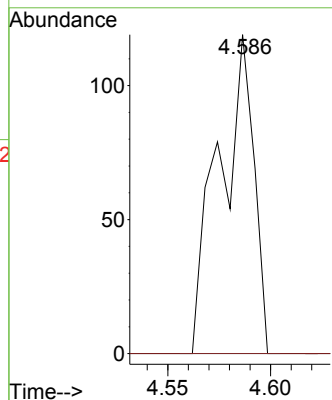
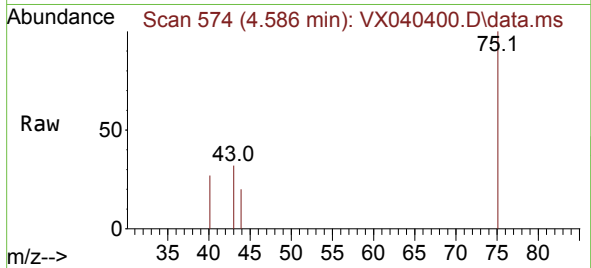




#25
2-Butanone
Concen: 0.202 ug/l
RT: 4.586 min Scan# 51
Delta R.T. 0.030 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

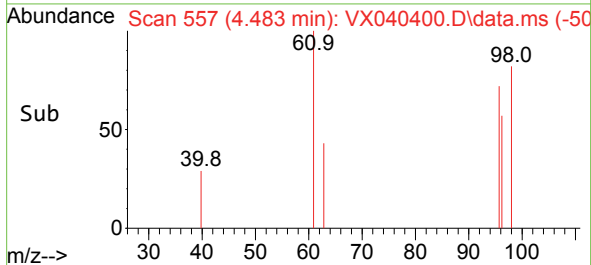
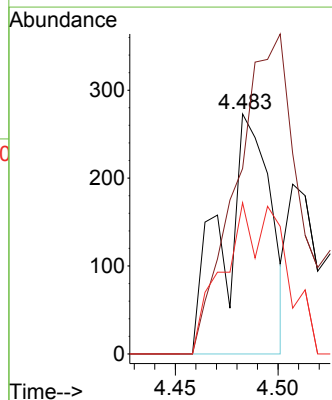
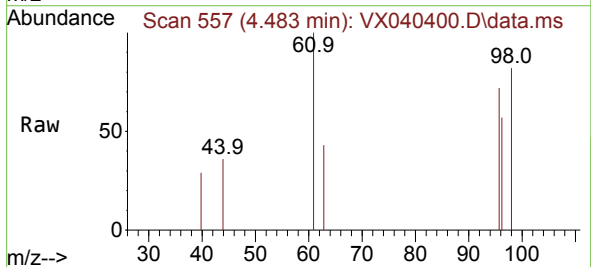
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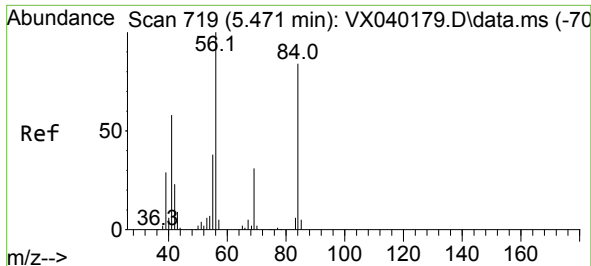
Tgt Ion: 43 Resp: 140
Ion Ratio Lower Upper
43 100
72 0.0 19.4 29.2#



#27
cis-1,2-Dichloroethene
Concen: 0.451 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.006 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

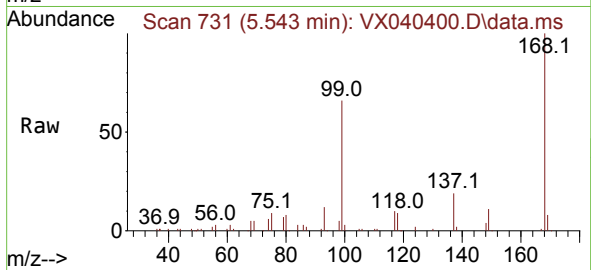
Tgt Ion: 96 Resp: 434
Ion Ratio Lower Upper
96 100
61 182.5 0.0 312.2
98 82.3 0.0 129.0





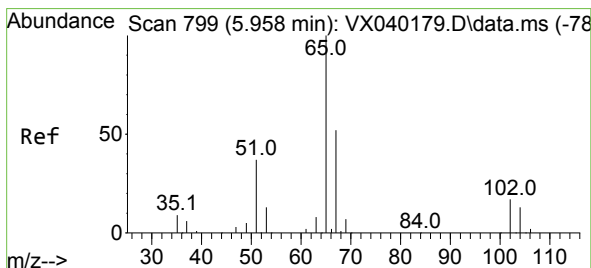
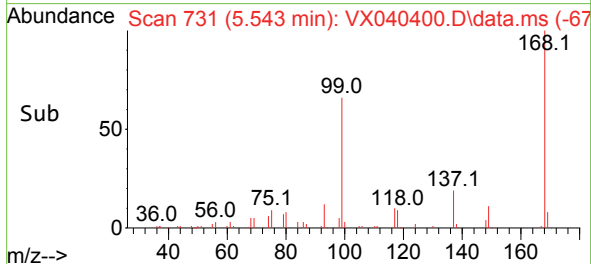
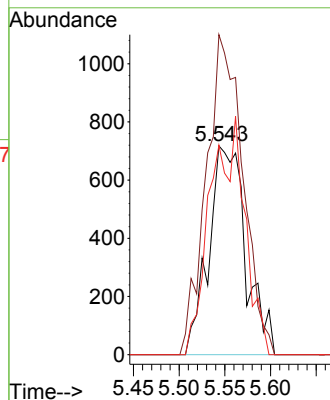
#31
Cyclohexane
Concen: 1.568 ug/l
RT: 5.543 min Scan# 719
Delta R.T. 0.073 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

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Tgt Ion: 56 Resp: 2020

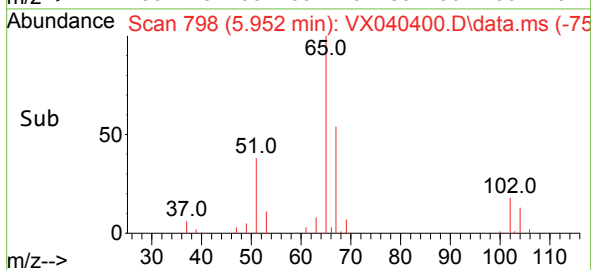
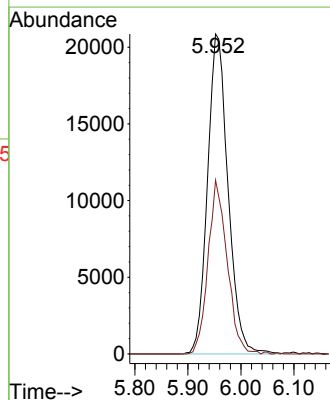
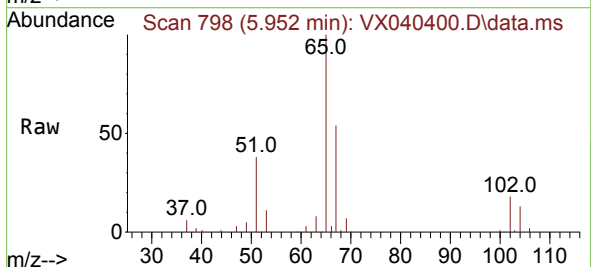
Ion	Ratio	Lower	Upper
56	100		
69	153.2	23.4	35.2#
84	100.3	65.9	98.9#

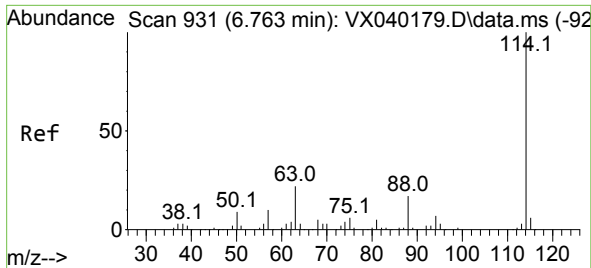


#33
1,2-Dichloroethane-d4
Concen: 51.898 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.006 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

Tgt Ion: 65 Resp: 56054

Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	100.2

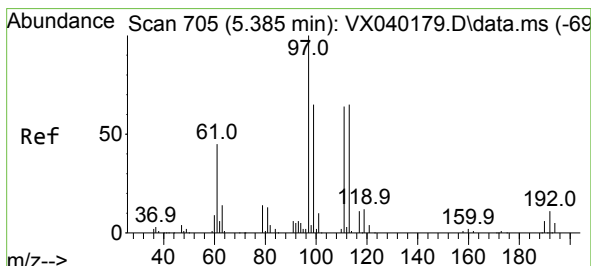
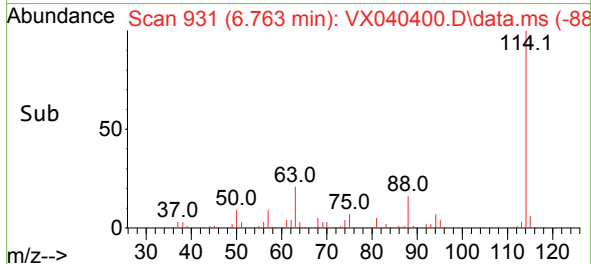
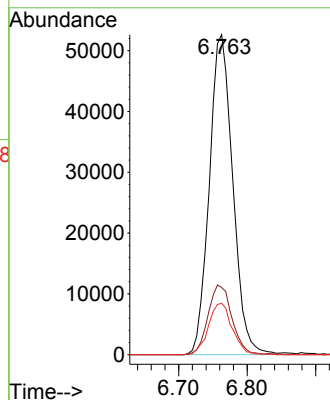
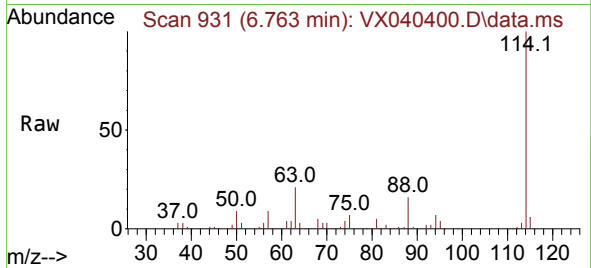




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 911
Delta R.T. -0.000 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

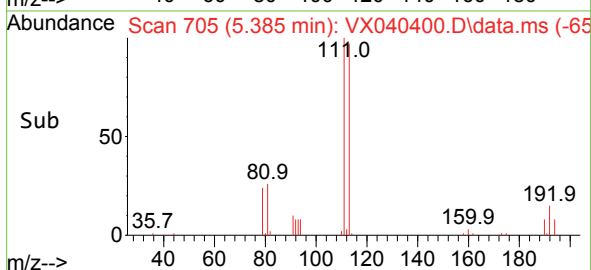
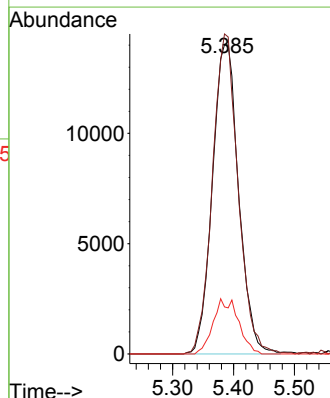
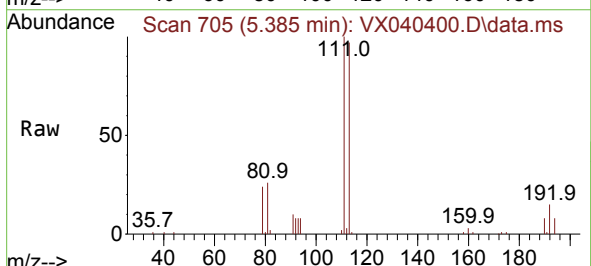
Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20240216DL

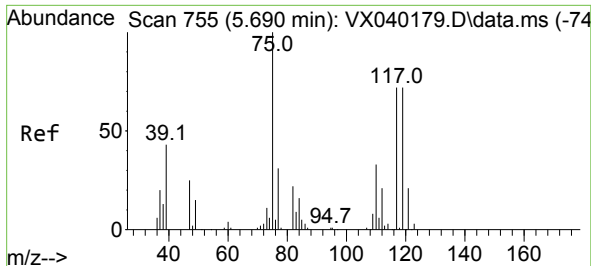
Tgt Ion:114 Resp: 125274
Ion Ratio Lower Upper
114 100
63 21.0 0.0 45.0
88 16.1 0.0 36.6



#35
Dibromofluoromethane
Concen: 48.016 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

Tgt Ion:113 Resp: 42007
Ion Ratio Lower Upper
113 100
111 101.0 82.9 124.3
192 17.2 13.3 19.9

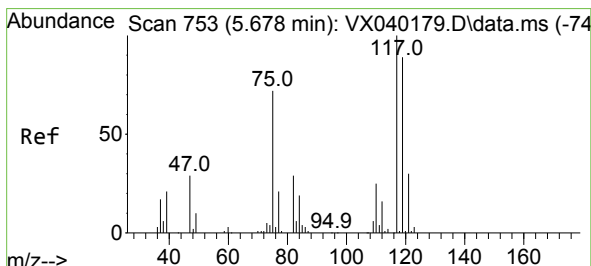
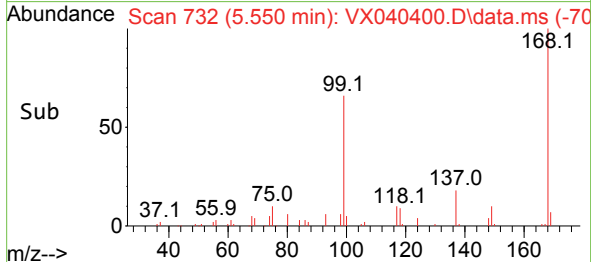
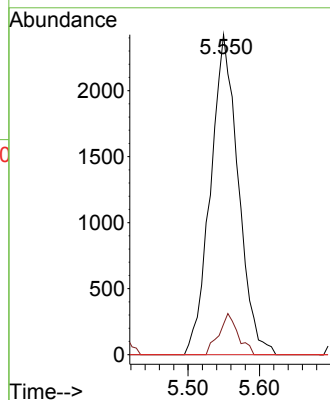
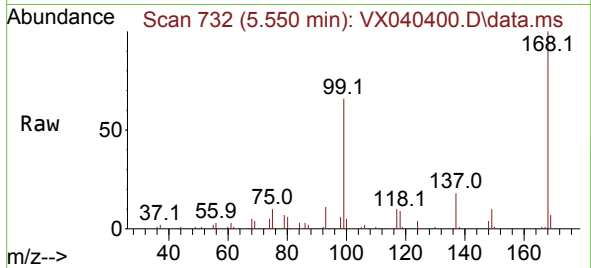




#36
1,1-Dichloropropene
Concen: 5.340 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

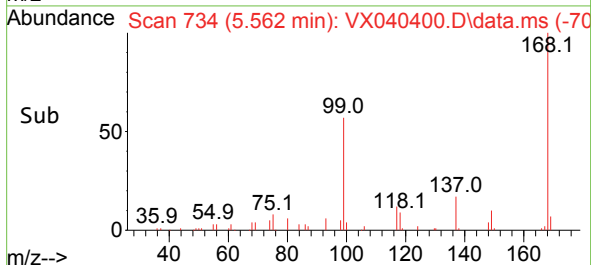
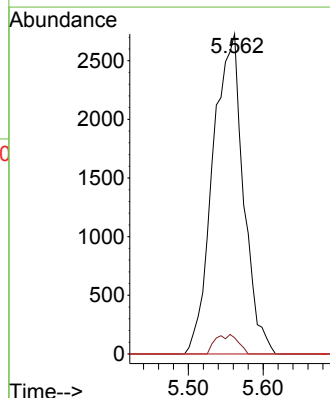
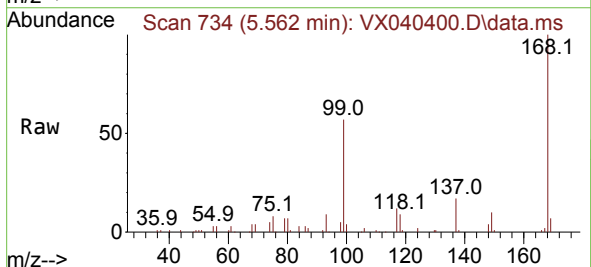
Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20240216DL

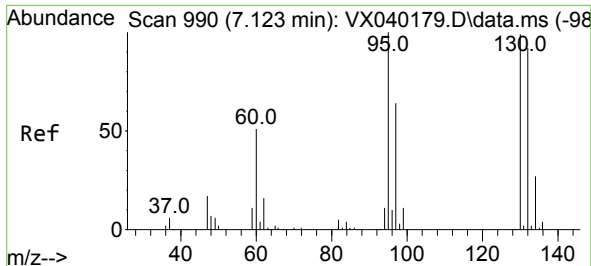
Tgt Ion: 75 Resp: 6544
Ion Ratio Lower Upper
75 100
110 8.8 17.0 50.9#
77 0.0 24.7 37.1#



#38
Carbon Tetrachloride
Concen: 6.679 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.110 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

Tgt Ion: 117 Resp: 7783
Ion Ratio Lower Upper
117 100
119 5.1 78.2 117.2#
121 0.0 24.4 36.6#

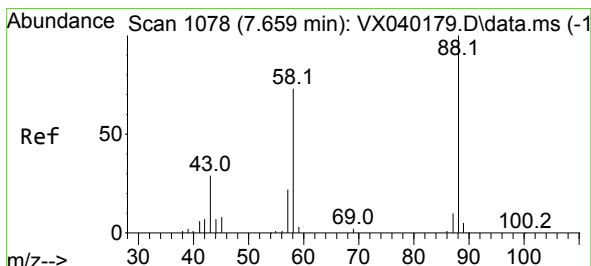
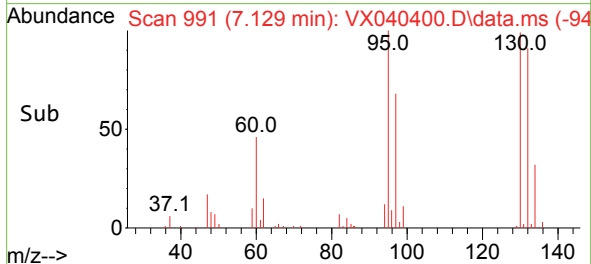
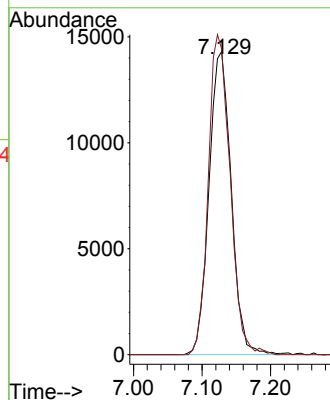
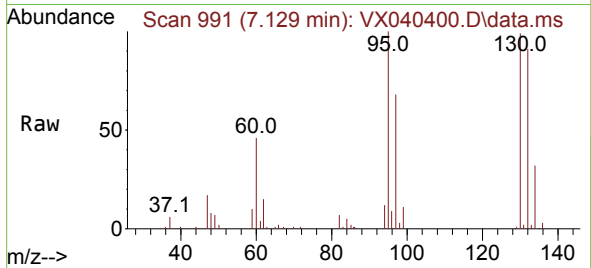




#44
Trichloroethene
Concen: 33.993 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.000 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

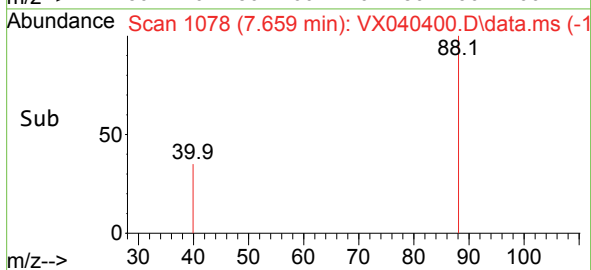
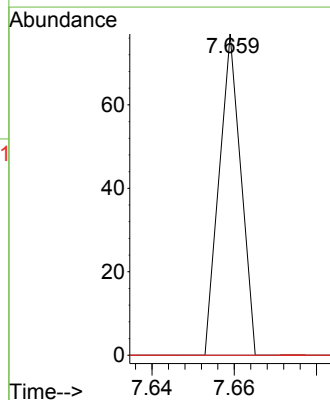
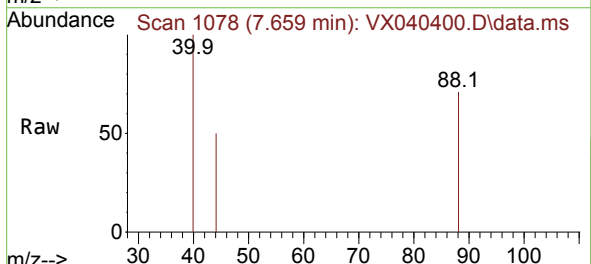
Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20240216DL

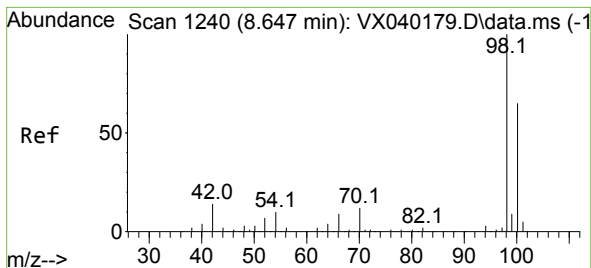
Tgt Ion:130 Resp: 32135
Ion Ratio Lower Upper
130 100
95 100.9 0.0 204.4



#49
1,4-Dioxane
Concen: 1.182 ug/l
RT: 7.659 min Scan# 1078
Delta R.T. -0.000 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

Tgt Ion: 88 Resp: 28
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 0.0 60.1 90.1#





#50

Toluene-d8

Concen: 47.345 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX040400.D

Acq: 22 Feb 2024 14:40

Instrument :

MSVOA_X

ClientSampleId :

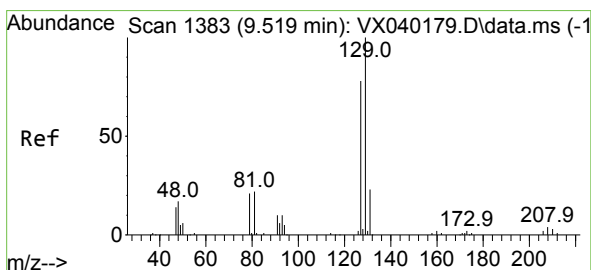
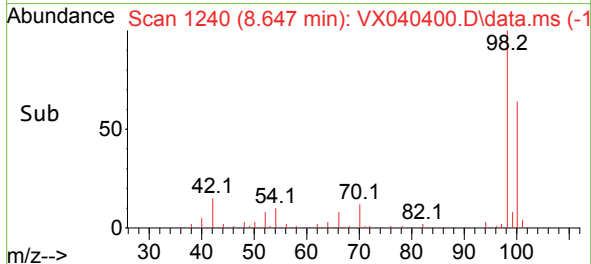
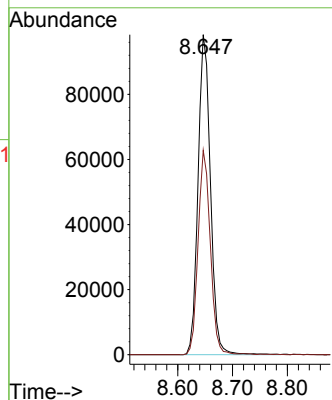
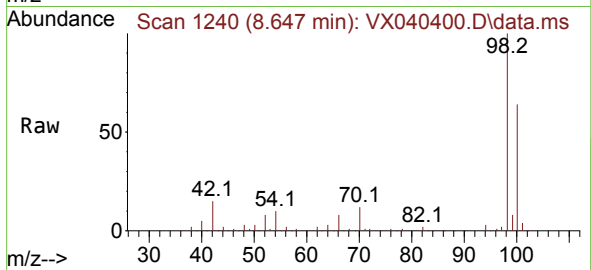
RE125D1-20240216DL

Tgt Ion: 98 Resp: 154938

Ion Ratio Lower Upper

98 100

100 63.1 53.1 79.7



#60

Dibromochloromethane

Concen: 1.709 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.244 min

Lab File: VX040400.D

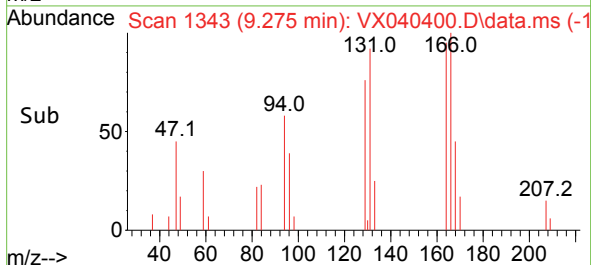
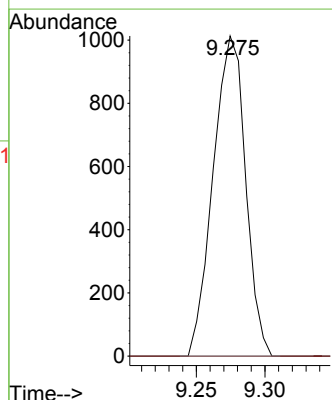
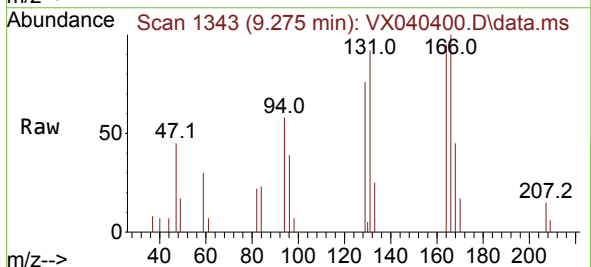
Acq: 22 Feb 2024 14:40

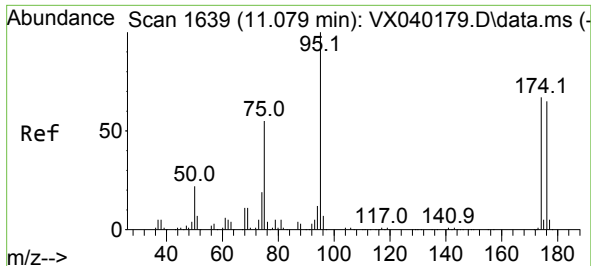
Tgt Ion:129 Resp: 1667

Ion Ratio Lower Upper

129 100

127 0.0 38.8 116.4#

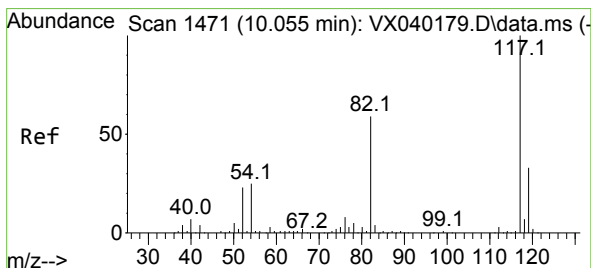
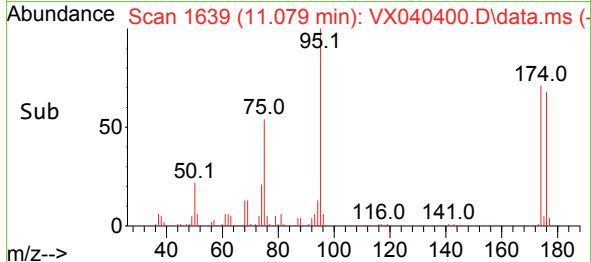
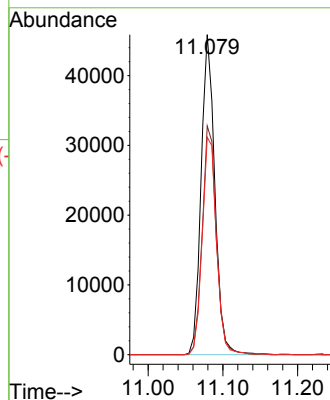
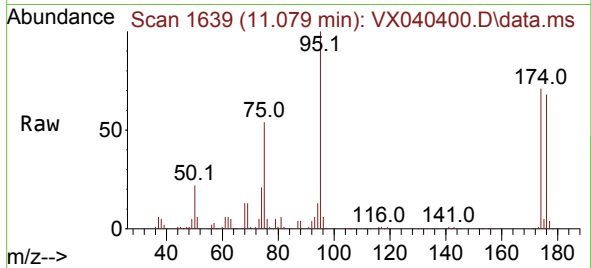




#62
4-Bromofluorobenzene
Concen: 43.643 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

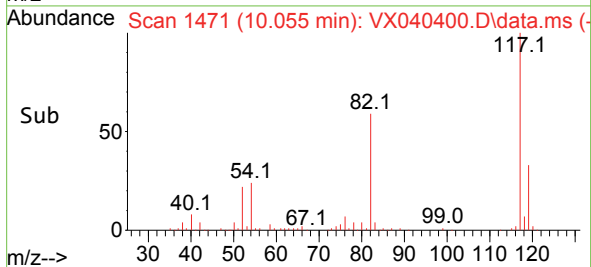
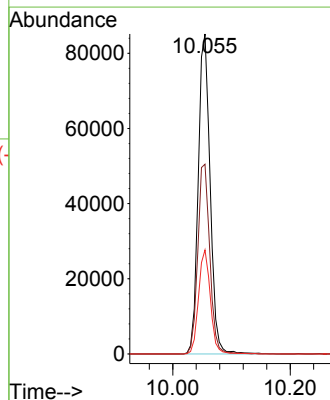
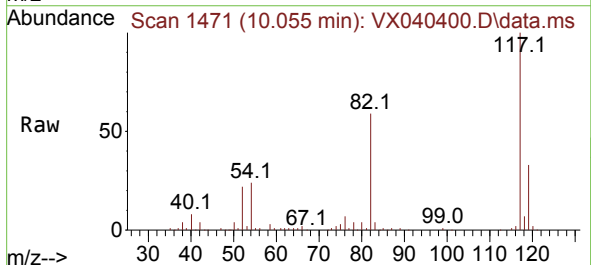
Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20240216DL

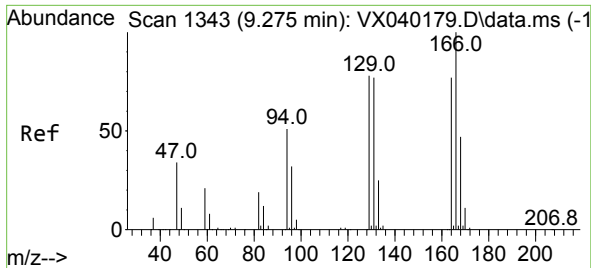
Tgt Ion: 95 Resp: 58249
Ion Ratio Lower Upper
95 100
174 73.7 0.0 135.6
176 70.9 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

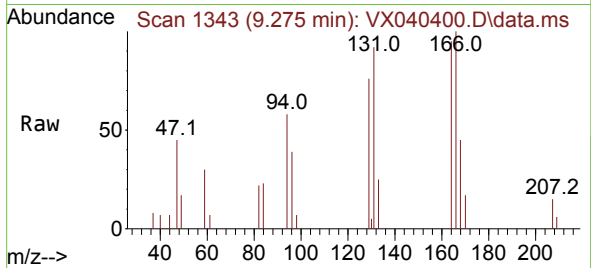
Tgt Ion: 117 Resp: 119568
Ion Ratio Lower Upper
117 100
82 59.3 46.2 69.4
119 32.5 25.5 38.3



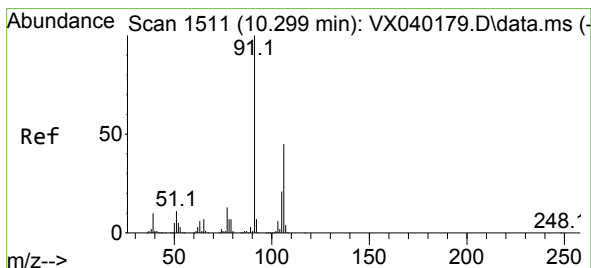
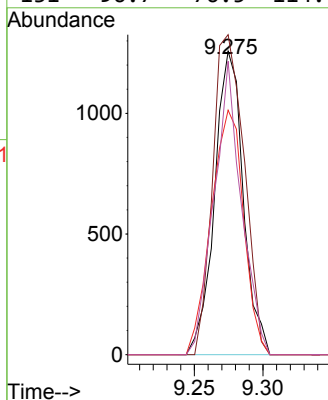
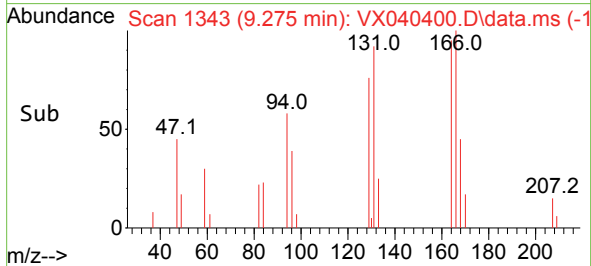


#64
Tetrachloroethene
Concen: 2.177 ug/l
RT: 9.275 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

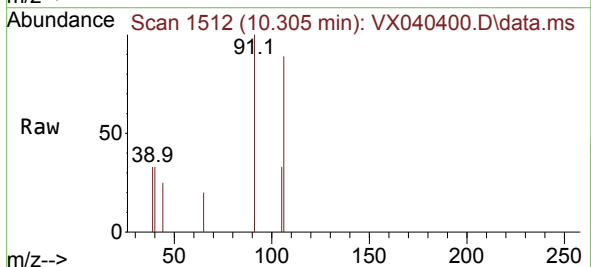
Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20240216DL



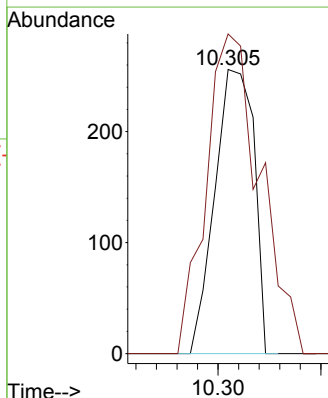
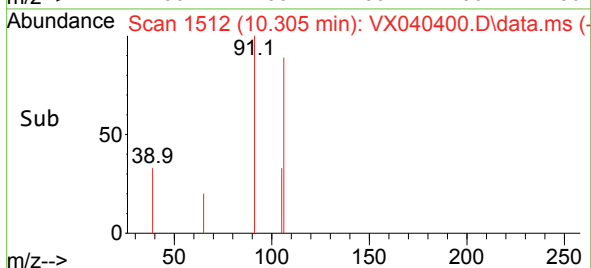
Tgt Ion:164 Resp: 1824
Ion Ratio Lower Upper
164 100
166 105.4 102.7 154.1
129 80.5 80.4 120.6
131 96.7 76.5 114.7

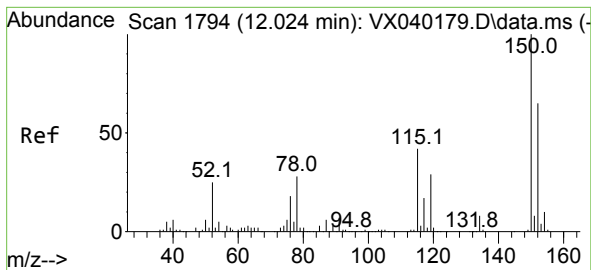


#68
m/p-Xylenes
Concen: 0.202 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40



Tgt Ion:106 Resp: 339
Ion Ratio Lower Upper
106 100
91 154.9 165.5 248.3#

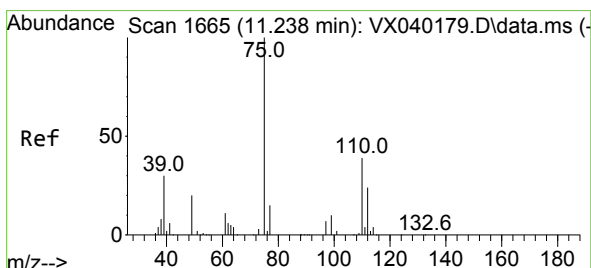
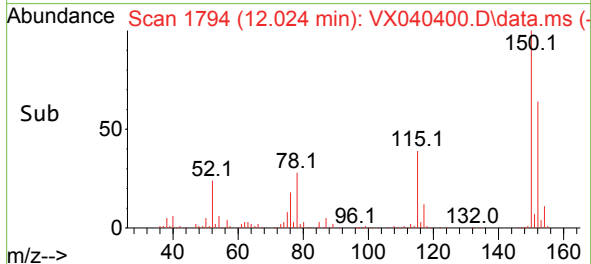
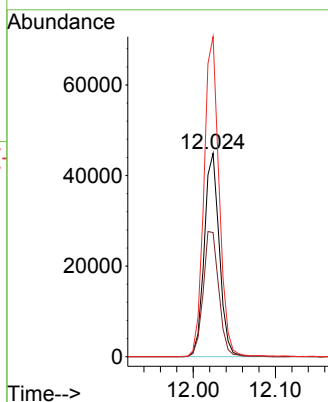
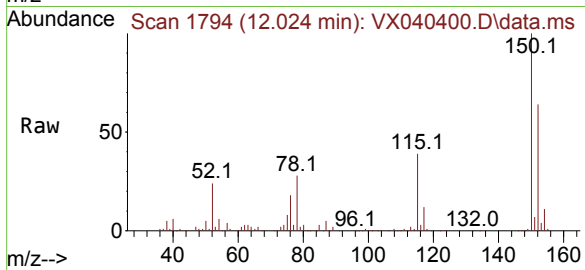




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

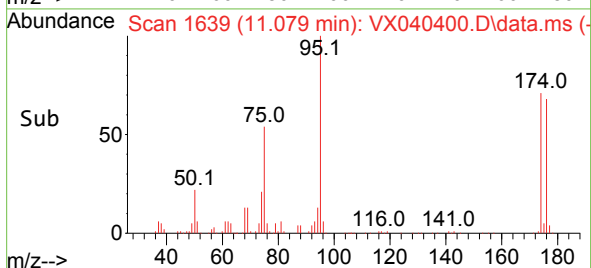
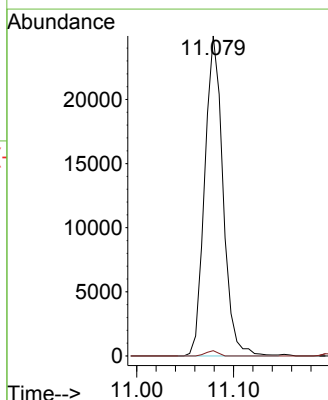
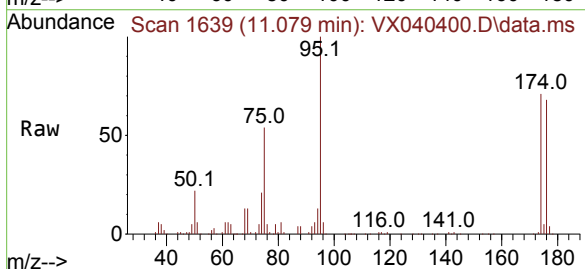
Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20240216DL

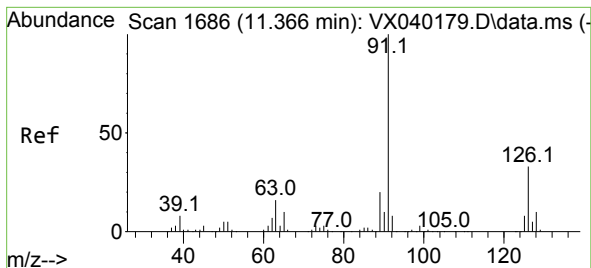
Tgt Ion:152 Resp: 57060
Ion Ratio Lower Upper
152 100
115 63.9 43.3 129.9
150 158.6 0.0 345.0



#76
1,2,3-Trichloropropane
Concen: 28.446 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

Tgt Ion: 75 Resp: 32869
Ion Ratio Lower Upper
75 100
77 1.1 19.1 57.5#





#79

2-Chlorotoluene

Concen: 0.209 ug/l

RT: 11.457 min Scan# 1

Delta R.T. 0.091 min

Lab File: VX040400.D

Acq: 22 Feb 2024 14:40

Instrument :

MSVOA_X

ClientSampleId :

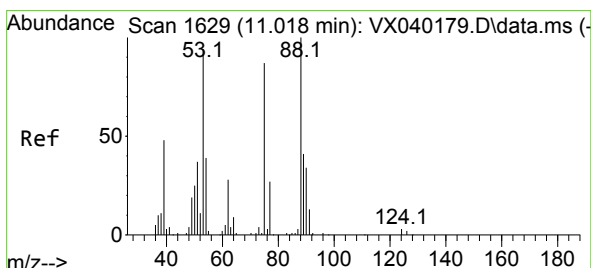
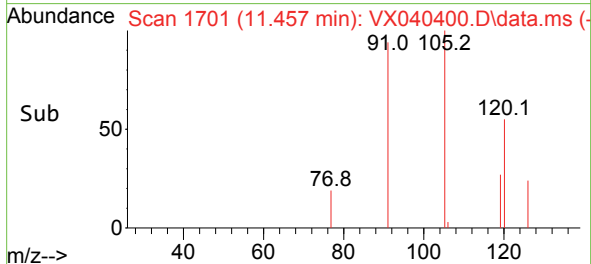
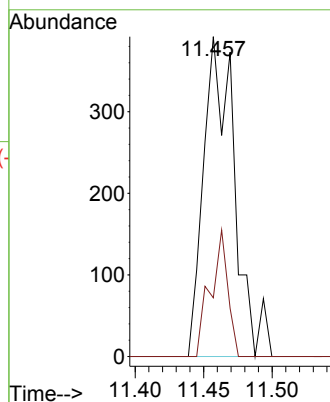
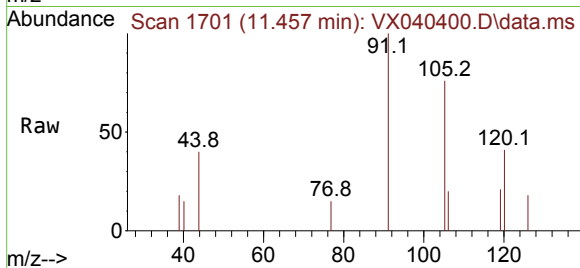
RE125D1-20240216DL

Tgt Ion: 91 Resp: 613

Ion Ratio Lower Upper

91 100

126 22.2 16.3 48.8



#81

trans-1,4-Dichloro-2-butene

Concen: 77.758 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX040400.D

Acq: 22 Feb 2024 14:40

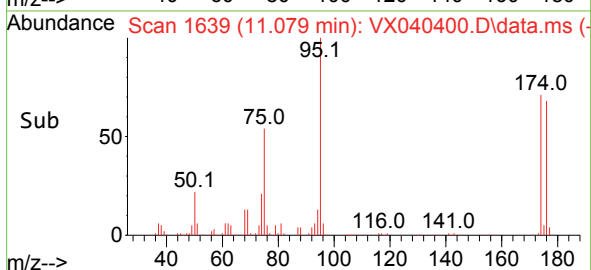
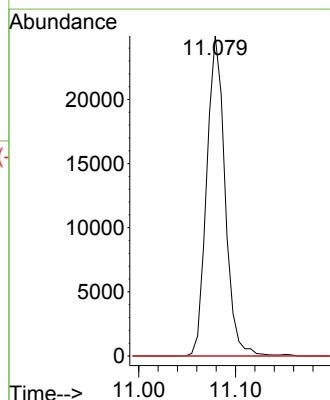
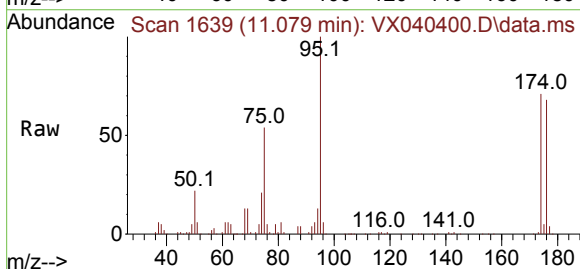
Tgt Ion: 75 Resp: 32869

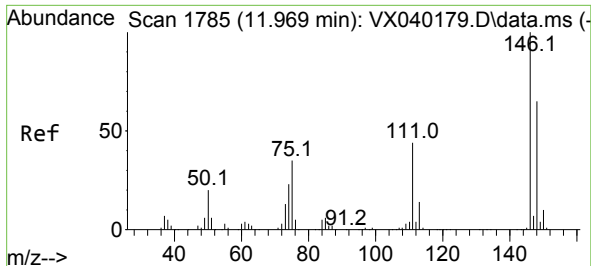
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#





#87

1,3-Dichlorobenzene

Concen: 0.213 ug/l

RT: 11.975 min Scan# 1786

Delta R.T. 0.006 min

Lab File: VX040400.D

Acq: 22 Feb 2024 14:40

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20240216DL

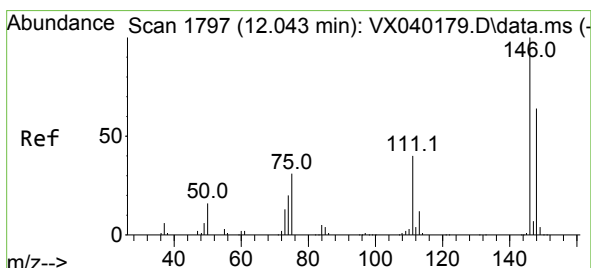
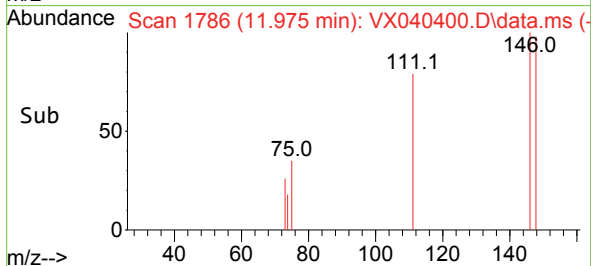
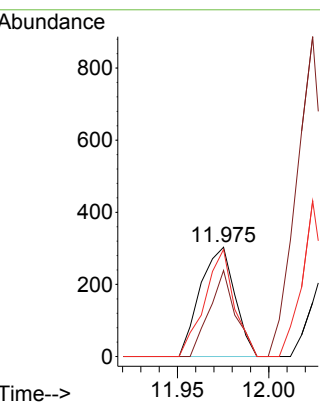
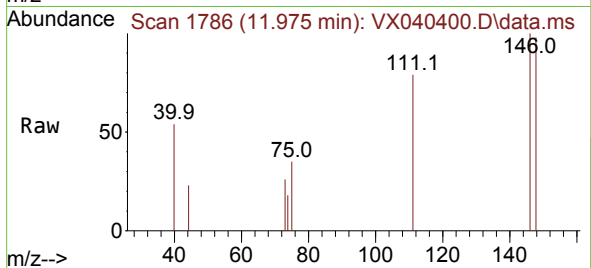
Tgt Ion:146 Resp: 400

Ion Ratio Lower Upper

146 100

111 59.3 22.1 66.1

148 83.5 31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 0.201 ug/l

RT: 11.975 min Scan# 1786

Delta R.T. -0.067 min

Lab File: VX040400.D

Acq: 22 Feb 2024 14:40

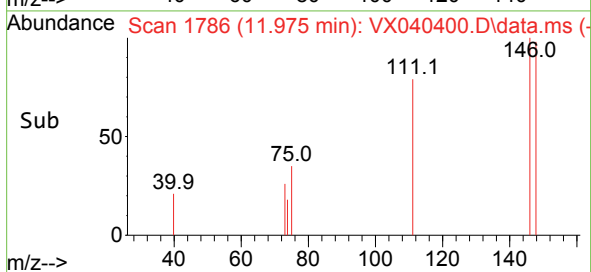
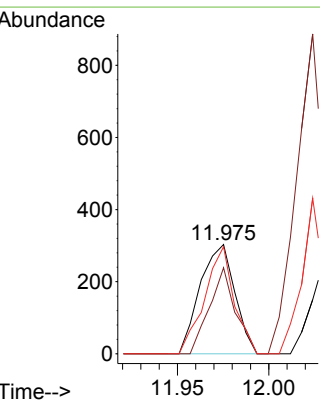
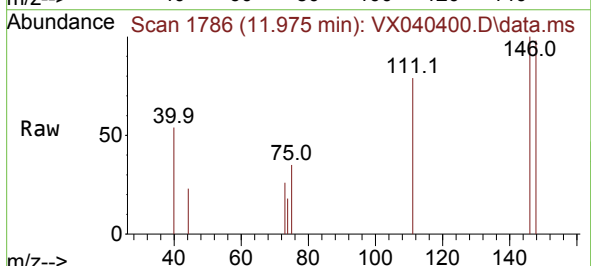
Tgt Ion:146 Resp: 400

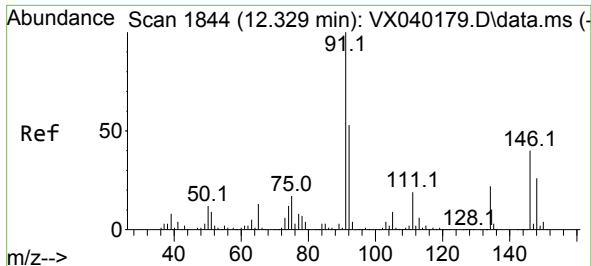
Ion Ratio Lower Upper

146 100

111 59.3 21.3 63.7

148 83.5 31.8 95.4





#89

n-Butylbenzene

Concen: 0.319 ug/l

RT: 12.335 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX040400.D

Acq: 22 Feb 2024 14:40

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20240216DL

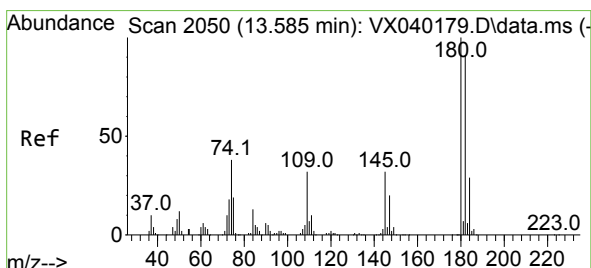
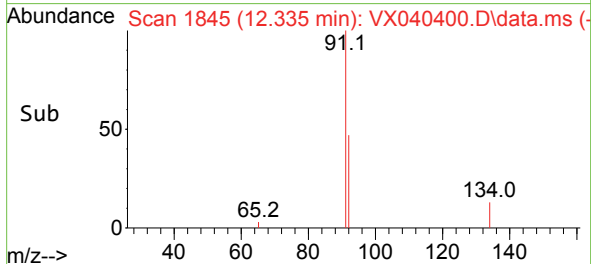
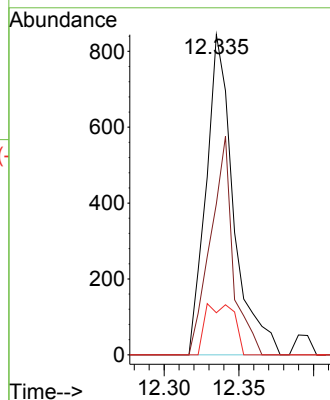
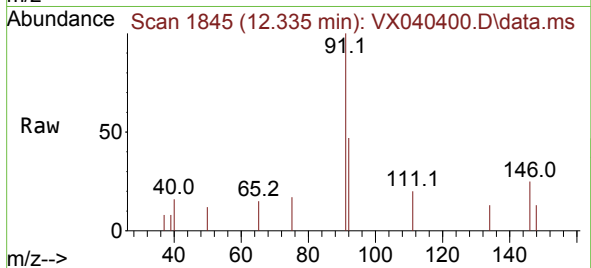
Tgt Ion: 91 Resp: 1076

Ion Ratio Lower Upper

91 100

92 55.9 27.4 82.0

134 16.7 12.6 37.8



#93

1,2,4-Trichlorobenzene

Concen: 0.485 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX040400.D

Acq: 22 Feb 2024 14:40

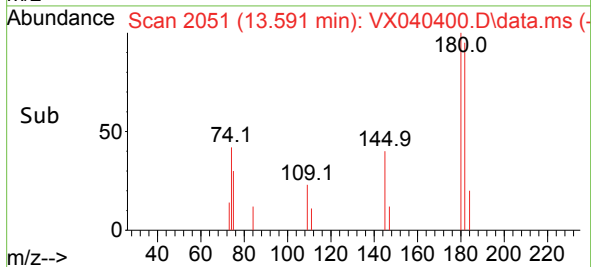
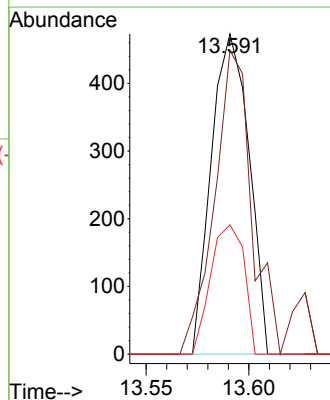
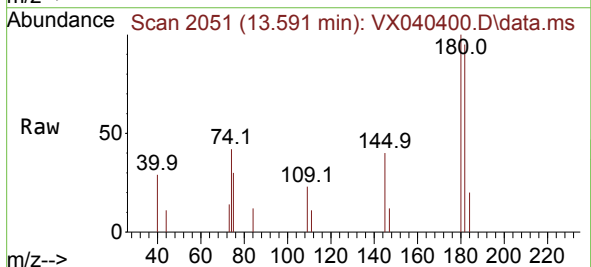
Tgt Ion: 180 Resp: 604

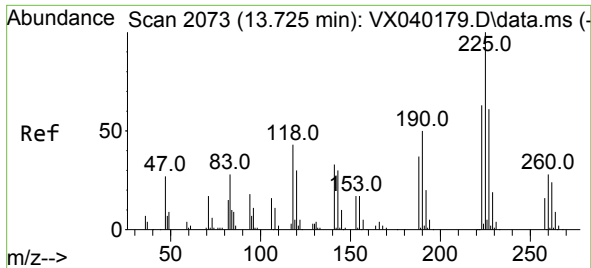
Ion Ratio Lower Upper

180 100

182 93.4 48.3 144.8

145 35.9 18.0 54.0

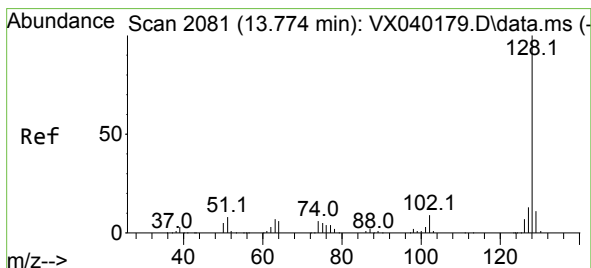
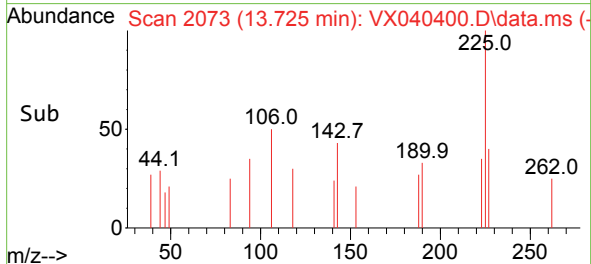
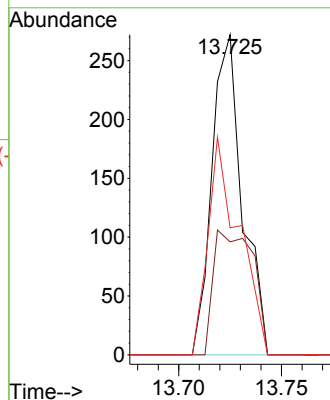
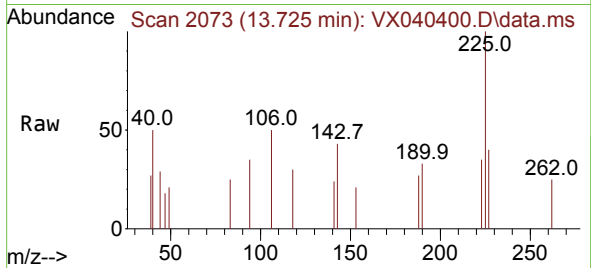




#94
Hexachlorobutadiene
Concen: 0.563 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

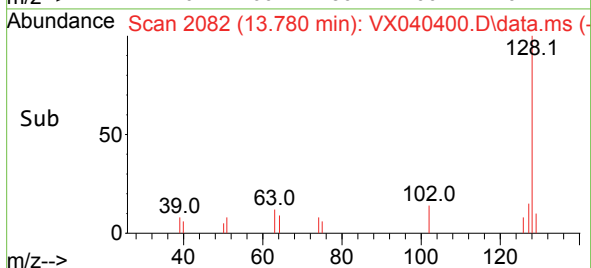
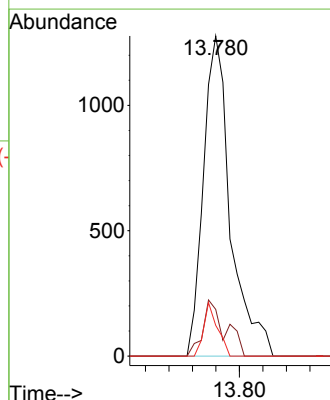
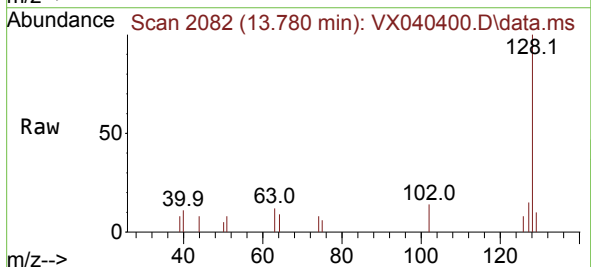
Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20240216DL

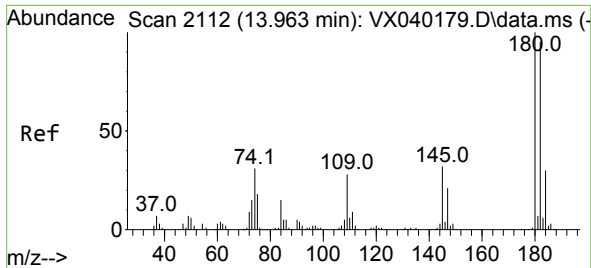
Tgt Ion:225 Resp: 280
Ion Ratio Lower Upper
225 100
223 50.4 31.1 93.2
227 69.6 32.5 97.5



#95
Naphthalene
Concen: 0.519 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX040400.D
Acq: 22 Feb 2024 14:40

Tgt Ion:128 Resp: 2042
Ion Ratio Lower Upper
128 100
127 14.5 10.3 15.5
129 8.4 8.8 13.2#





#96

1,2,3-Trichlorobenzene

Concen: 0.482 ug/l

RT: 13.963 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX040400.D

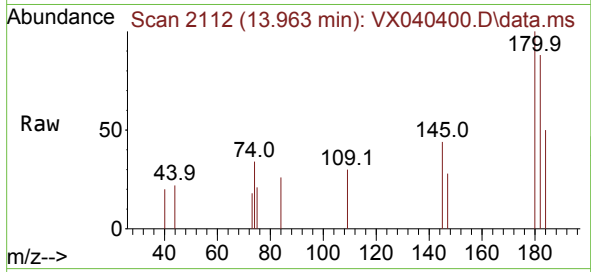
Acq: 22 Feb 2024 14:40

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20240216DL



Tgt Ion:180 Resp: 573

Ion Ratio Lower Upper

180 100

182 102.6 46.9 140.6

145 36.0 17.8 53.5

