

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032025\
 Data File : VX045368.D
 Acq On : 20 Mar 2025 17:55
 Operator : JC/MD
 Sample : Q1582-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D3-20250313

Quant Time: Mar 21 01:52:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	62724	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	124749	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	117366	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	48478	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	57798	57.930	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 115.860%	
35) Dibromofluoromethane	5.379	113	44178	52.961	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 105.920%	
50) Toluene-d8	8.647	98	158129	52.289	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 104.580%	
62) 4-Bromofluorobenzene	11.079	95	55300	55.184	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 110.360%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.160	85	168	0.213	ug/l #	40
3) Chloromethane	1.307	50	367	0.380	ug/l	95
8) Diethyl Ether	2.313	74	362	0.729	ug/l #	1
9) 1,1,2-Trichlorotrifluo...	2.319	101	525636	721.028	ug/l	98
12) 1,1-Dichloroethene	2.319	96	3340	4.333	ug/l #	85
16) Acetone	2.380	43	1100	2.376	ug/l	95
27) cis-1,2-Dichloroethene	4.489	96	1287	1.369	ug/l	91
30) Chloroform	5.093	83	453	0.292	ug/l #	82
31) Cyclohexane	5.544	56	1889	1.392	ug/l #	43
36) 1,1-Dichloropropene	5.544	75	6434	5.624	ug/l #	48
38) Carbon Tetrachloride	5.544	117	7383	6.357	ug/l #	15
39) Methylcyclohexane	7.110	83	725	0.529	ug/l #	1
42) 1,2-Dichloroethane	6.105	62	508	0.391	ug/l #	75
44) Trichloroethene	7.123	130	49305	58.127	ug/l	97
45) 1,2-Dichloropropane	7.434	63	2064	2.222	ug/l	93
48) Methyl methacrylate	7.434	41	1579	1.444	ug/l #	31
49) 1,4-Dioxane	7.690	88	68	2.948	ug/l #	23
51) 4-Methyl-2-Pentanone	8.641	43	888	0.607	ug/l #	1
55) 1,1,2-Trichloroethane	9.269	97	568	0.651	ug/l #	8
60) Dibromochloromethane	9.269	129	49057	53.772	ug/l #	11
64) Tetrachloroethene	9.269	164	48799	64.920	ug/l	96
76) 1,2,3-Trichloropropane	11.079	75	31617	28.021	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	31617	95.893	ug/l #	6

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

Quant Time: Mar 21 01:52:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

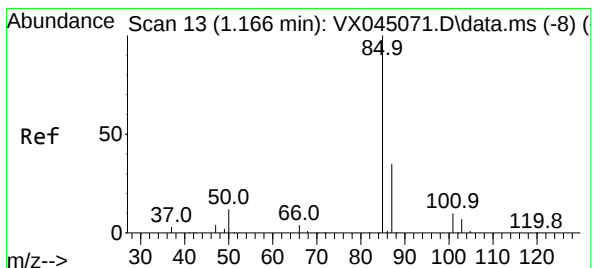
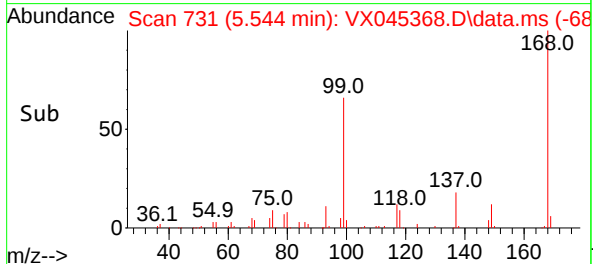
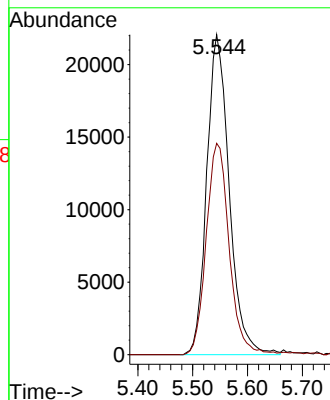
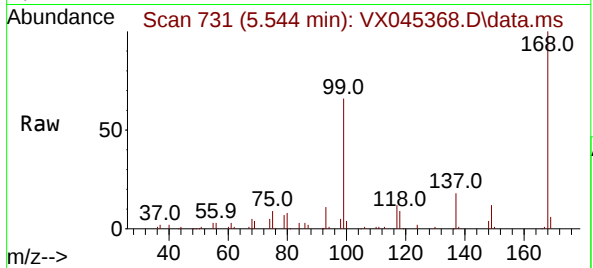




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045368.D
Acq: 20 Mar 2025 17:55

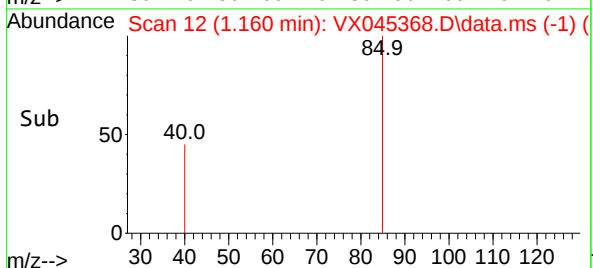
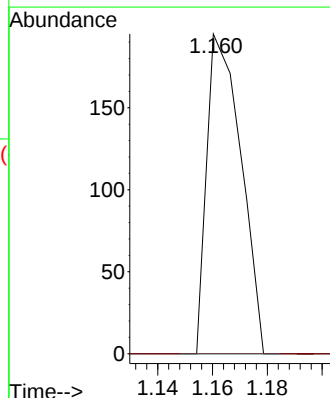
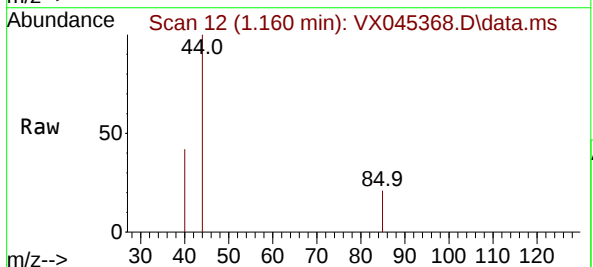
Instrument :
MSVOA_X
ClientSampleId :
RE131D3-20250313

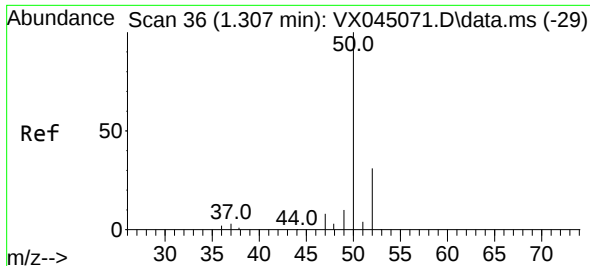
Tgt Ion:168 Resp: 62724
Ion Ratio Lower Upper
168 100
99 66.1 48.2 72.4



#2
Dichlorodifluoromethane
Concen: 0.213 ug/l
RT: 1.160 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX045368.D
Acq: 20 Mar 2025 17:55

Tgt Ion: 85 Resp: 168
Ion Ratio Lower Upper
85 100
87 0.0 17.4 52.3#

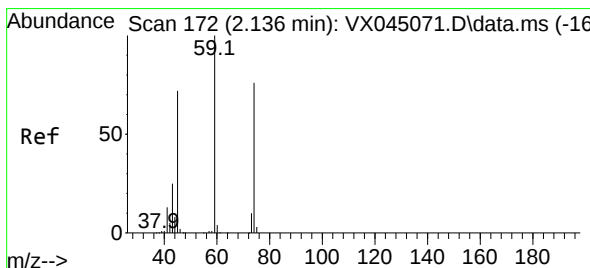
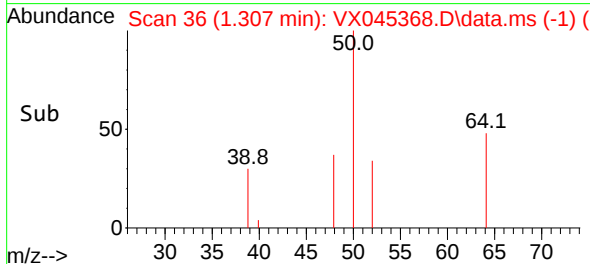
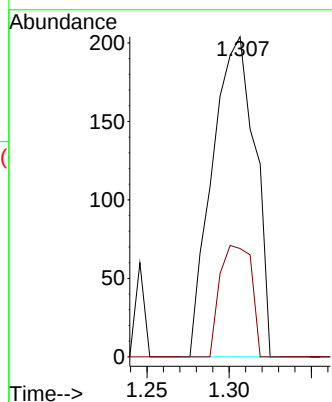
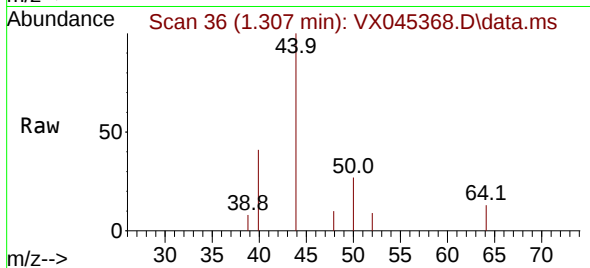




#3
Chloromethane
Concen: 0.380 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX045368.D
Acq: 20 Mar 2025 17:55

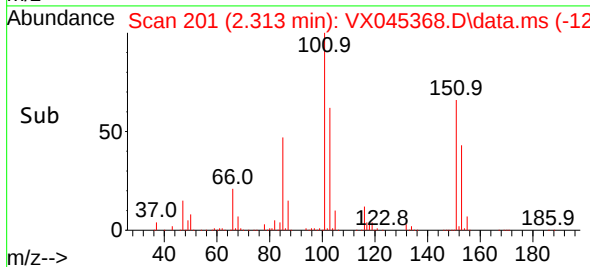
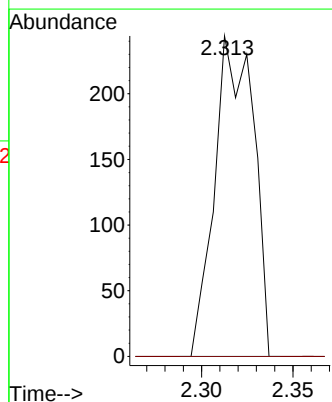
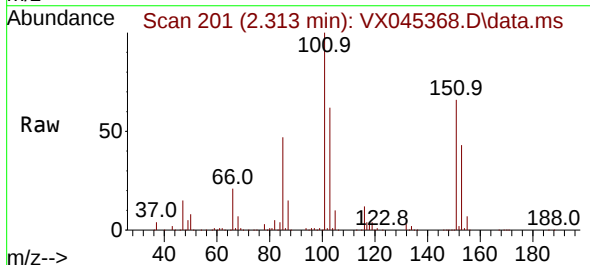
Instrument :
MSVOA_X
ClientSampleId :
RE131D3-20250313

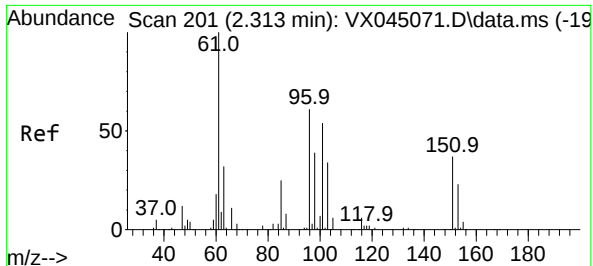
Tgt Ion: 50 Resp: 367
Ion Ratio Lower Upper
50 100
52 33.8 25.0 37.4



#8
Diethyl Ether
Concen: 0.729 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.177 min
Lab File: VX045368.D
Acq: 20 Mar 2025 17:55

Tgt Ion: 74 Resp: 362
Ion Ratio Lower Upper
74 100
45 0.0 51.5 154.5#

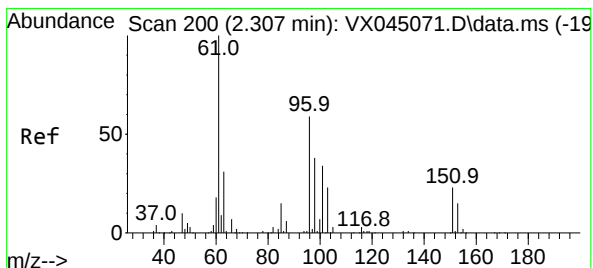
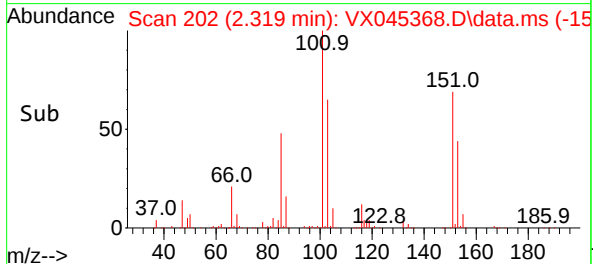
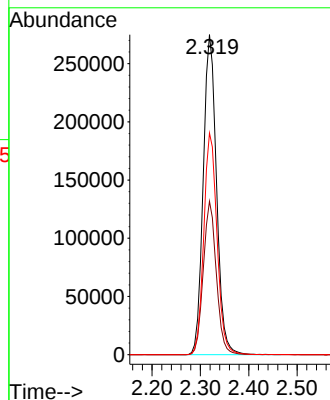
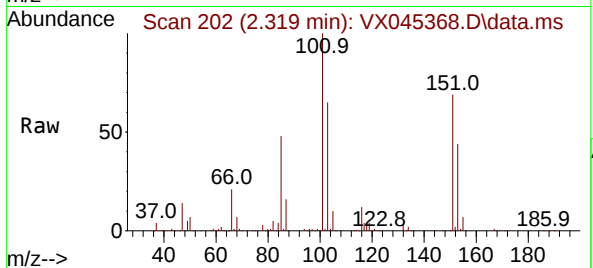




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 721.028 ug/l
 RT: 2.319 min Scan# 202
 Delta R.T. 0.006 min
 Lab File: VX045368.D
 Acq: 20 Mar 2025 17:55

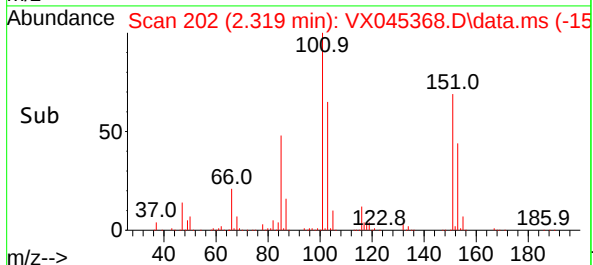
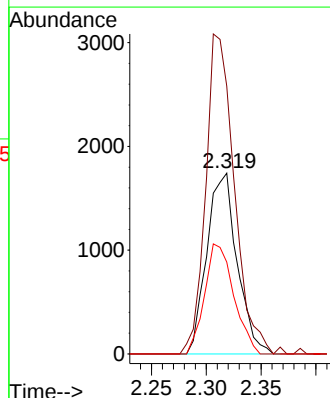
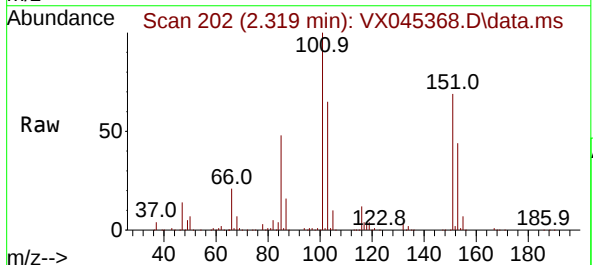
Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D3-20250313

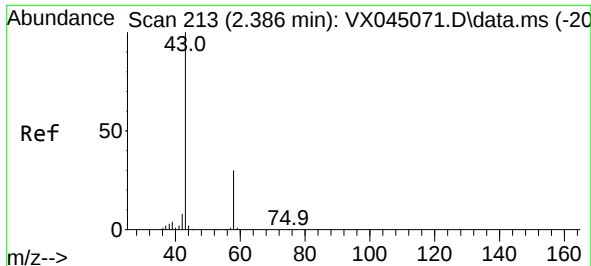
Tgt Ion:101 Resp: 525636
 Ion Ratio Lower Upper
 101 100
 85 47.1 36.2 54.4
 151 69.2 56.4 84.6



#12
 1,1-Dichloroethene
 Concen: 4.333 ug/l
 RT: 2.319 min Scan# 202
 Delta R.T. 0.012 min
 Lab File: VX045368.D
 Acq: 20 Mar 2025 17:55

Tgt Ion: 96 Resp: 3340
 Ion Ratio Lower Upper
 96 100
 61 148.1 134.6 202.0
 98 50.8 51.0 76.6#

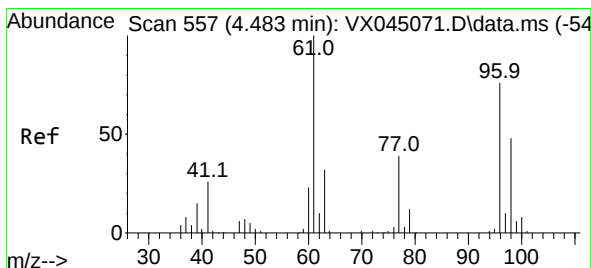
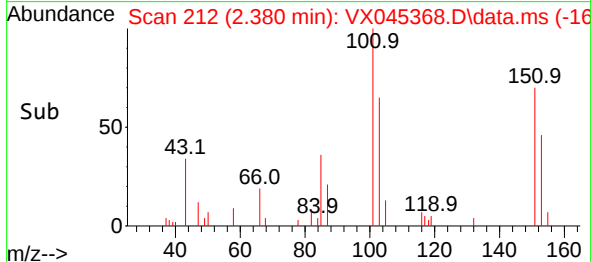
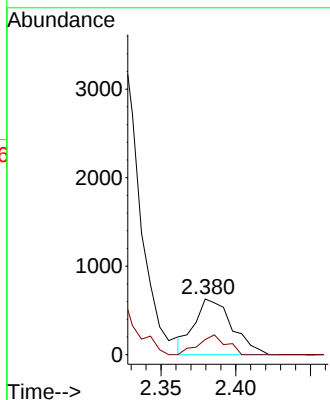
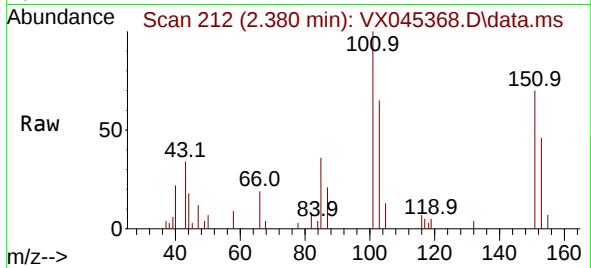




#16
Acetone
Concen: 2.376 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX045368.D
Acq: 20 Mar 2025 17:55

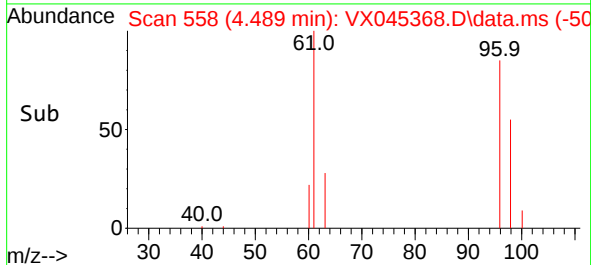
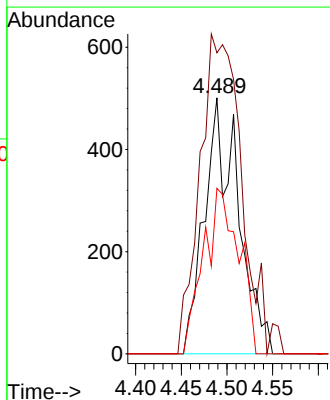
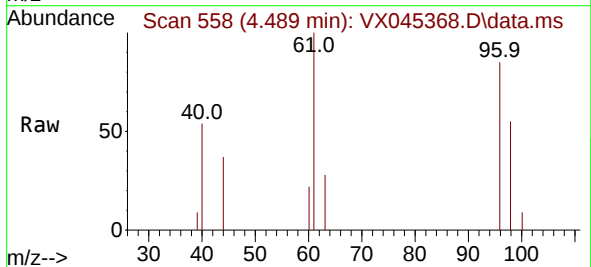
Instrument :
MSVOA_X
ClientSampleId :
RE131D3-20250313

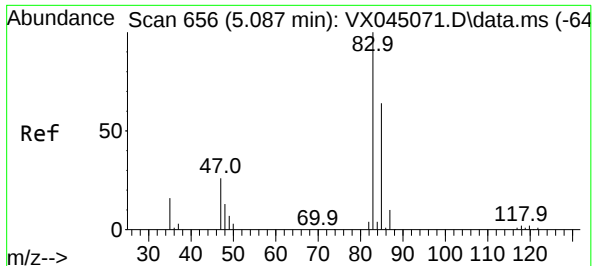
Tgt Ion: 43 Resp: 1100
Ion Ratio Lower Upper
43 100
58 27.5 24.2 36.4



#27
cis-1,2-Dichloroethene
Concen: 1.369 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.006 min
Lab File: VX045368.D
Acq: 20 Mar 2025 17:55

Tgt Ion: 96 Resp: 1287
Ion Ratio Lower Upper
96 100
61 154.8 0.0 283.2
98 67.8 0.0 128.0





#30

Chloroform

Concen: 0.292 ug/l

RT: 5.093 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX045368.D

Acq: 20 Mar 2025 17:55

Instrument :

MSVOA_X

ClientSampleId :

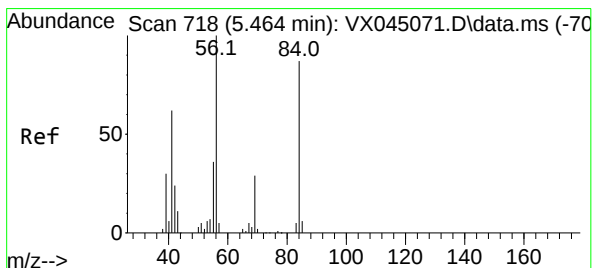
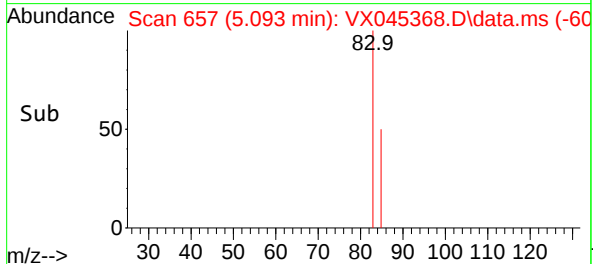
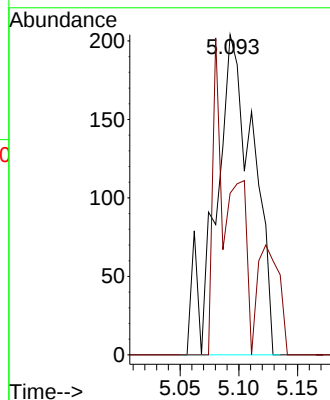
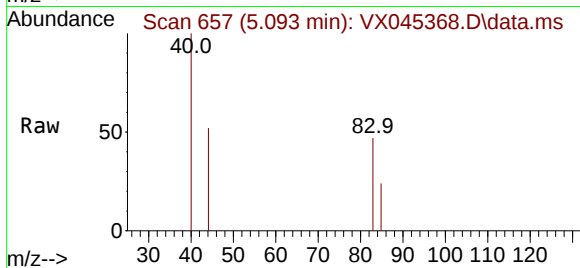
RE131D3-20250313

Tgt Ion: 83 Resp: 453

Ion Ratio Lower Upper

83 100

85 50.5 51.4 77.2#



#31

Cyclohexane

Concen: 1.392 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.079 min

Lab File: VX045368.D

Acq: 20 Mar 2025 17:55

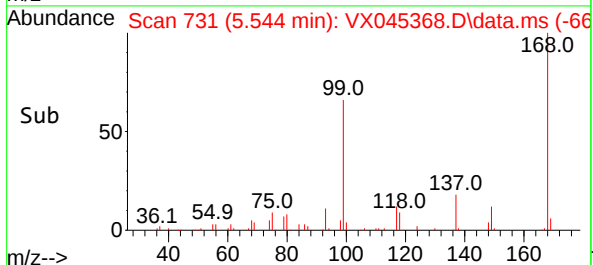
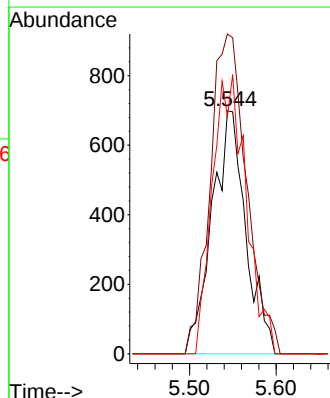
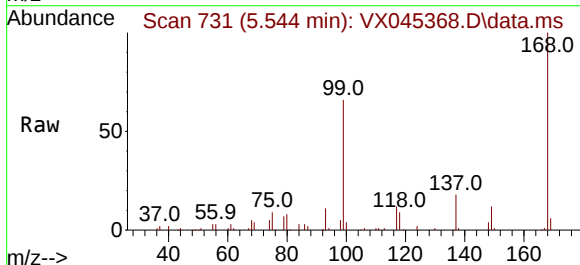
Tgt Ion: 56 Resp: 1889

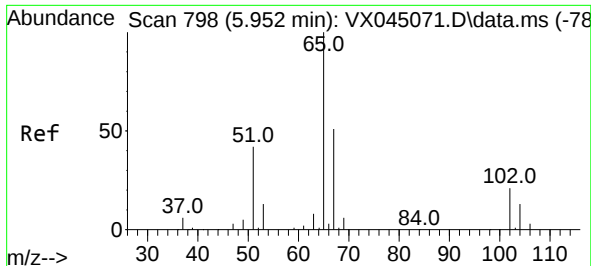
Ion Ratio Lower Upper

56 100

69 131.6 23.4 35.2#

84 97.7 69.4 104.2





#33

1,2-Dichloroethane-d4

Concen: 57.930 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX045368.D

Acq: 20 Mar 2025 17:55

Instrument :

MSVOA_X

ClientSampleId :

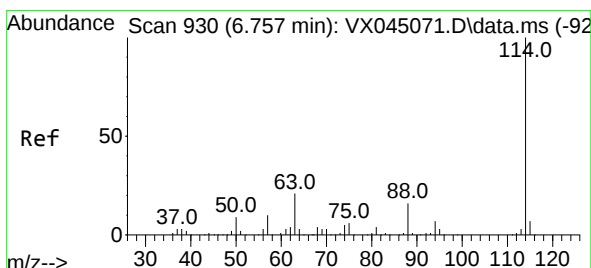
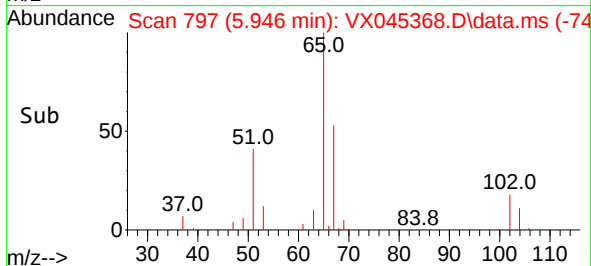
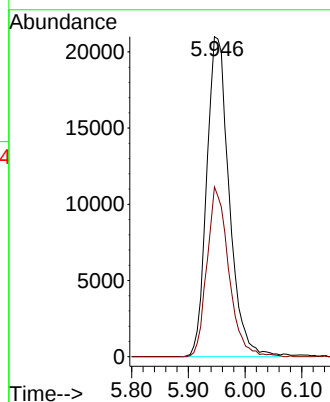
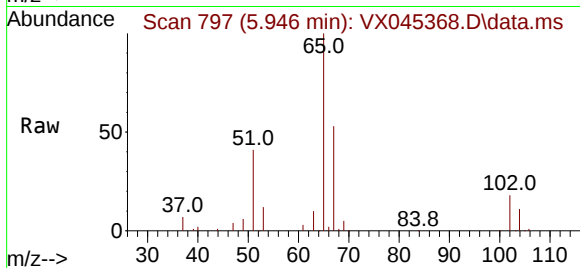
RE131D3-20250313

Tgt Ion: 65 Resp: 57798

Ion Ratio Lower Upper

65 100

67 51.3 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045368.D

Acq: 20 Mar 2025 17:55

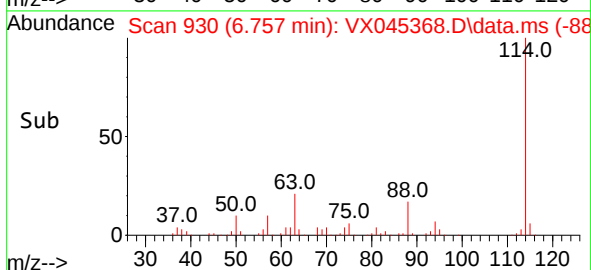
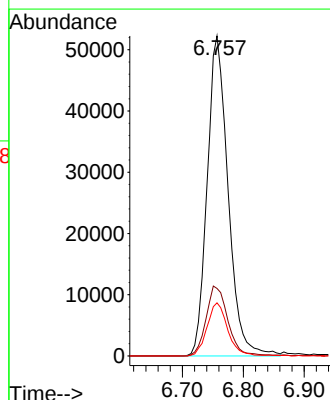
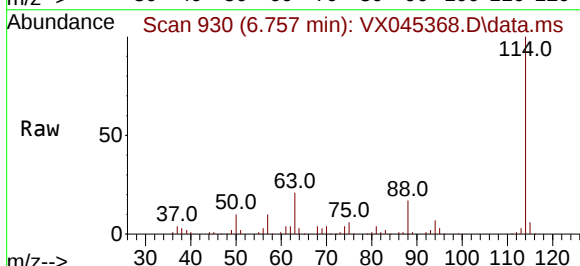
Tgt Ion: 114 Resp: 124749

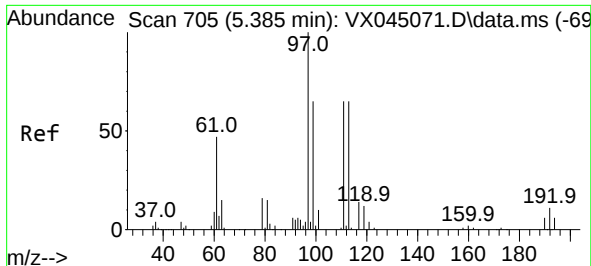
Ion Ratio Lower Upper

114 100

63 21.1 0.0 41.8

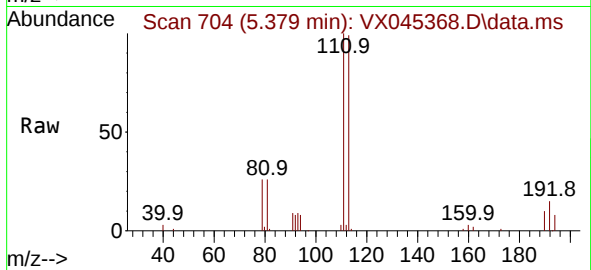
88 16.6 0.0 32.8



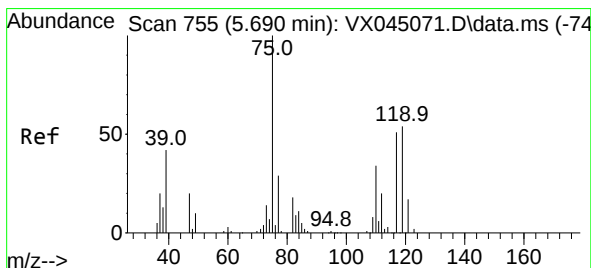
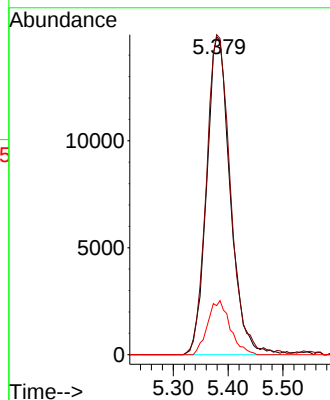
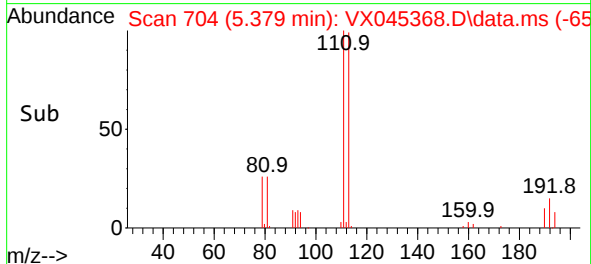


#35
Dibromofluoromethane
Concen: 52.961 ug/l
RT: 5.379 min Scan# 705
Delta R.T. -0.006 min
Lab File: VX045368.D
Acq: 20 Mar 2025 17:55

Instrument :
MSVOA_X
ClientSampleId :
RE131D3-20250313

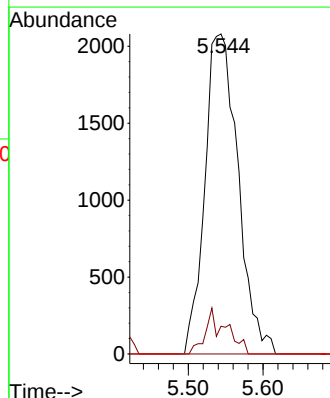
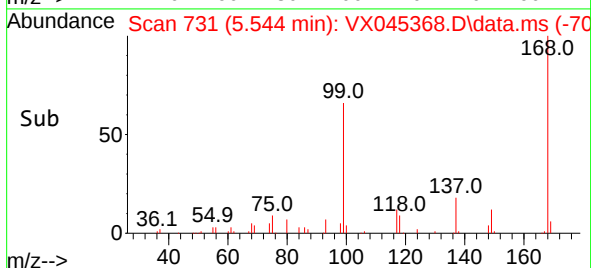
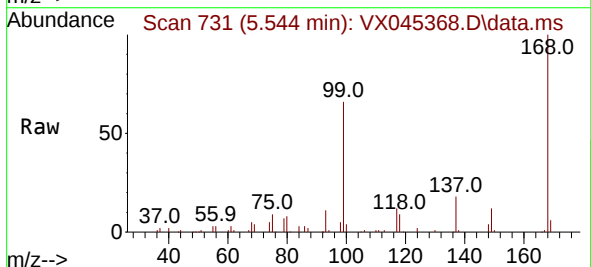


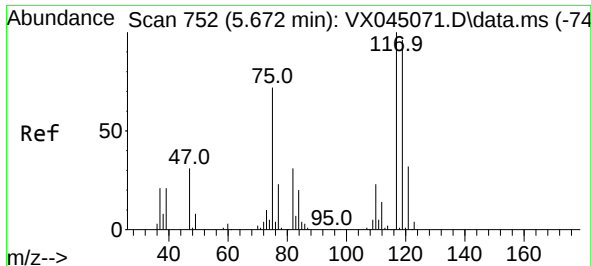
Tgt Ion:113 Resp: 44178
Ion Ratio Lower Upper
113 100
111 102.8 81.8 122.6
192 16.3 14.3 21.5



#36
1,1-Dichloropropene
Concen: 5.624 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.146 min
Lab File: VX045368.D
Acq: 20 Mar 2025 17:55

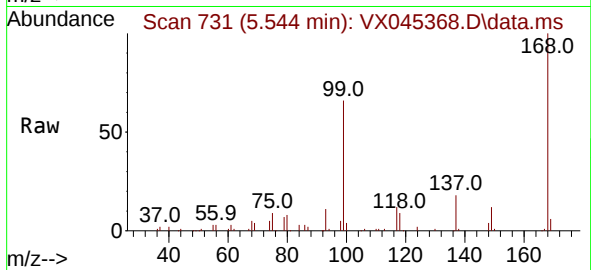
Tgt Ion: 75 Resp: 6434
Ion Ratio Lower Upper
75 100
110 6.5 16.9 50.6#
77 0.0 24.5 36.7#



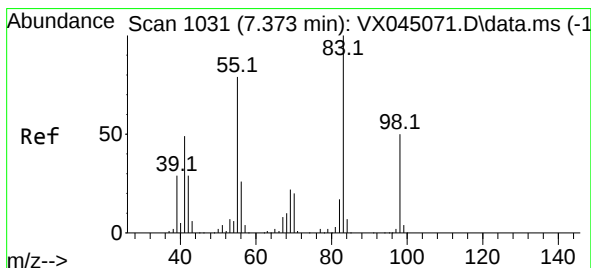
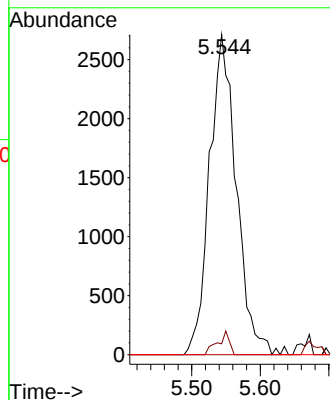
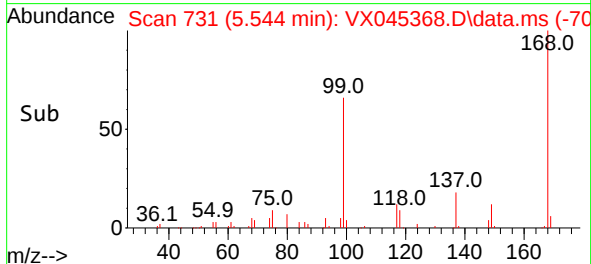


#38
Carbon Tetrachloride
Concen: 6.357 ug/l
RT: 5.544 min Scan# 711
Delta R.T. -0.128 min
Lab File: VX045368.D
Acq: 20 Mar 2025 17:55

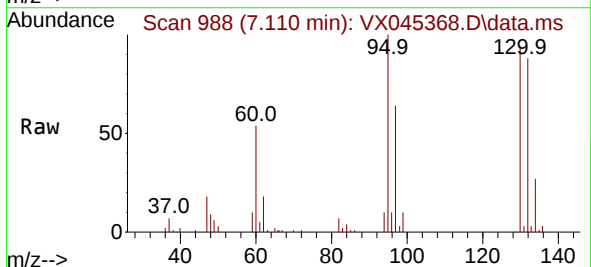
Instrument :
MSVOA_X
ClientSampleId :
RE131D3-20250313



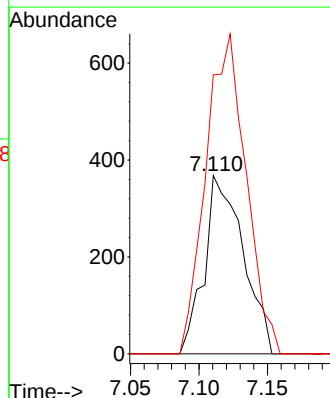
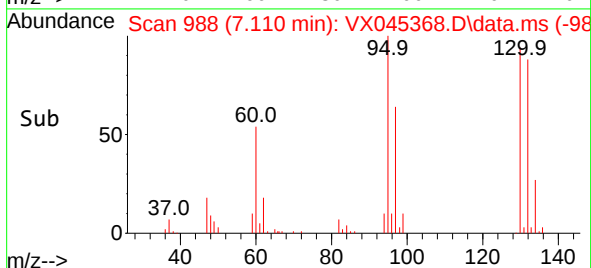
Tgt Ion:117 Resp: 7383
Ion Ratio Lower Upper
117 100
119 3.4 76.7 115.1#
121 0.0 25.5 38.3#

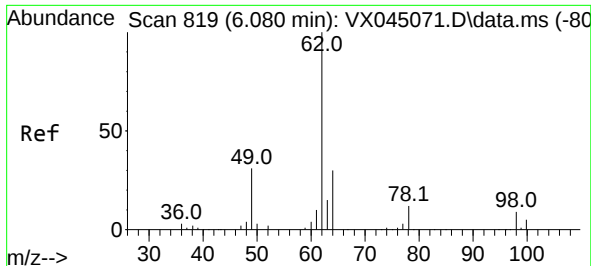


#39
Methylcyclohexane
Concen: 0.529 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.262 min
Lab File: VX045368.D
Acq: 20 Mar 2025 17:55



Tgt Ion: 83 Resp: 725
Ion Ratio Lower Upper
83 100
55 0.0 63.0 94.4#
98 156.5 39.7 59.5#





#42

1,2-Dichloroethane

Concen: 0.391 ug/l

RT: 6.105 min Scan# 819

Delta R.T. 0.024 min

Lab File: VX045368.D

Acq: 20 Mar 2025 17:55

Instrument :

MSVOA_X

ClientSampleId :

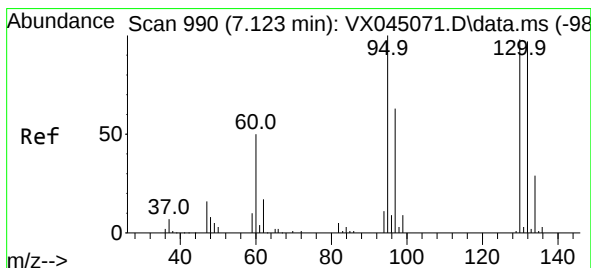
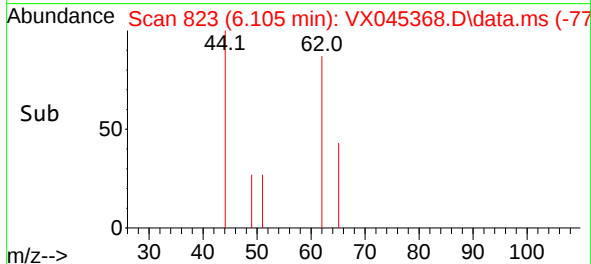
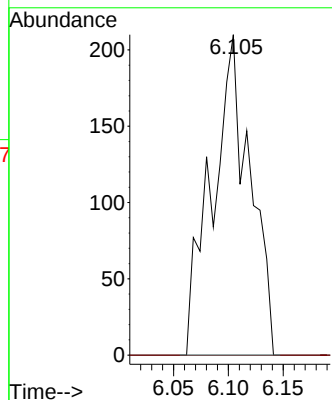
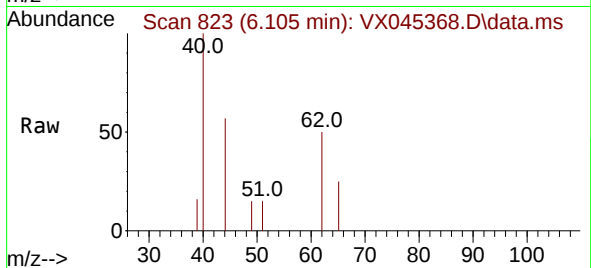
RE131D3-20250313

Tgt Ion: 62 Resp: 508

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#44

Trichloroethene

Concen: 58.127 ug/l

RT: 7.123 min Scan# 990

Delta R.T. -0.000 min

Lab File: VX045368.D

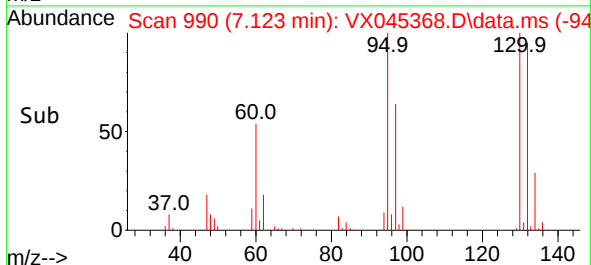
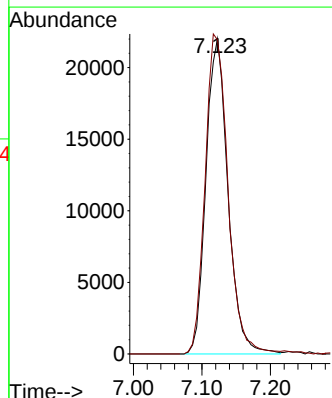
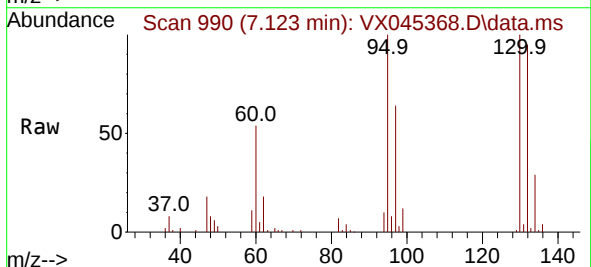
Acq: 20 Mar 2025 17:55

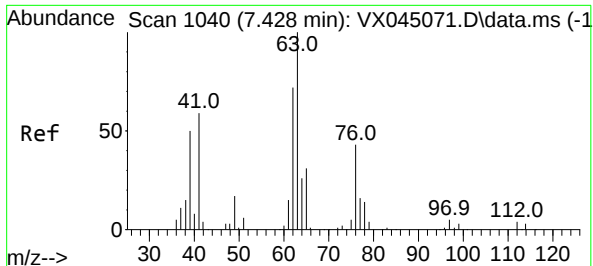
Tgt Ion:130 Resp: 49305

Ion Ratio Lower Upper

130 100

95 99.6 0.0 205.0





#45

1,2-Dichloropropane

Concen: 2.222 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VX045368.D

Acq: 20 Mar 2025 17:55

Instrument :

MSVOA_X

ClientSampleId :

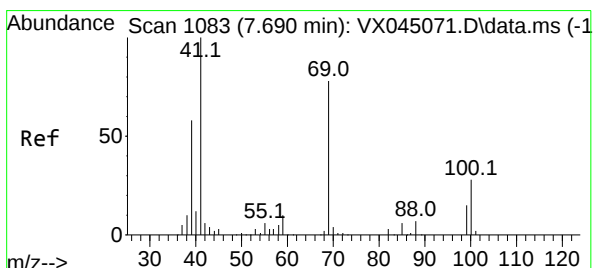
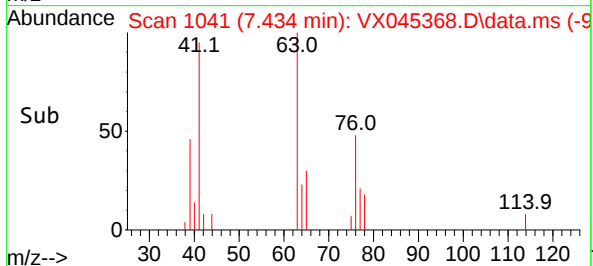
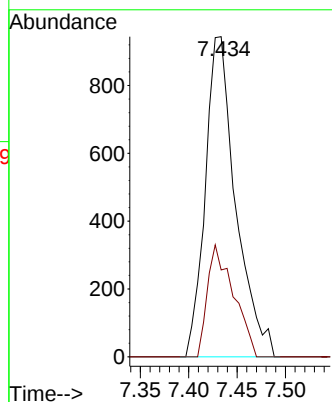
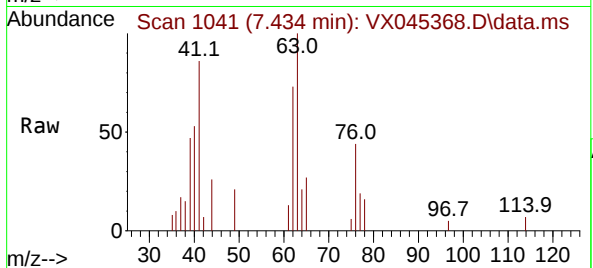
RE131D3-20250313

Tgt Ion: 63 Resp: 2064

Ion Ratio Lower Upper

63 100

65 27.1 24.7 37.1



#48

Methyl methacrylate

Concen: 1.444 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. -0.256 min

Lab File: VX045368.D

Acq: 20 Mar 2025 17:55

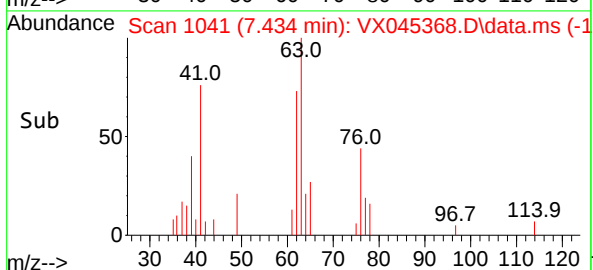
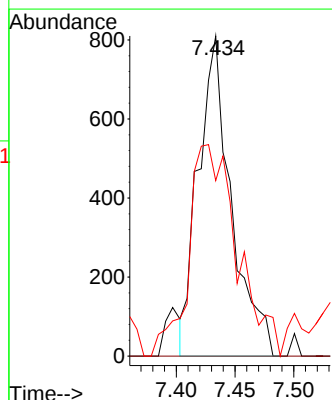
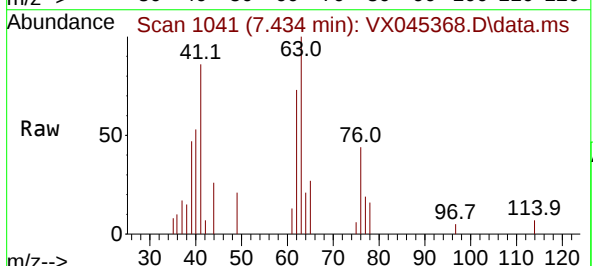
Tgt Ion: 41 Resp: 1579

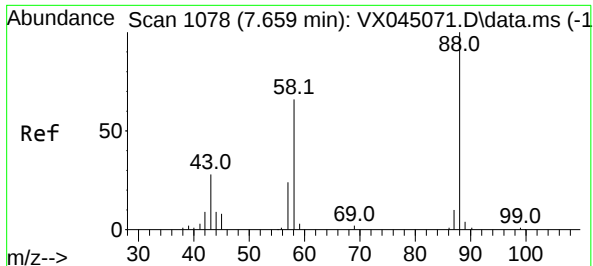
Ion Ratio Lower Upper

41 100

69 0.0 63.0 94.6#

39 89.9 47.5 71.3#





#49

1,4-Dioxane

Concen: 2.948 ug/l

RT: 7.690 min Scan# 1083

Delta R.T. 0.030 min

Lab File: VX045368.D

Acq: 20 Mar 2025 17:55

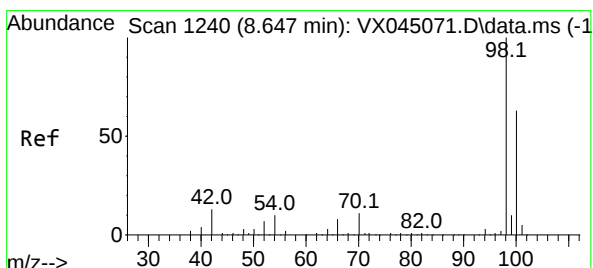
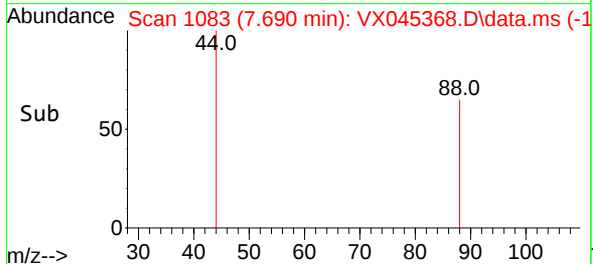
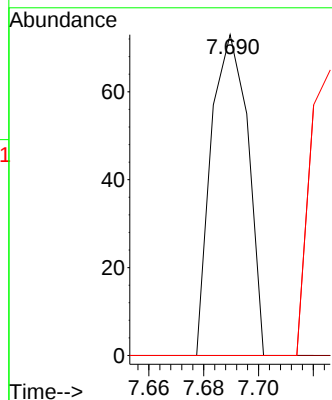
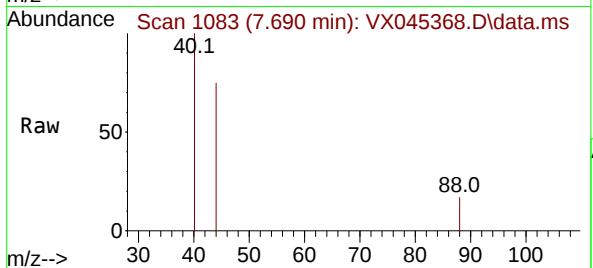
Instrument :

MSVOA_X

ClientSampleId :

RE131D3-20250313

Tgt Ion:	88	Resp:	68
Ion	Ratio	Lower	Upper
88	100		
43	0.0	28.7	43.1#
58	0.0	55.8	83.8#



#50

Toluene-d8

Concen: 52.289 ug/l

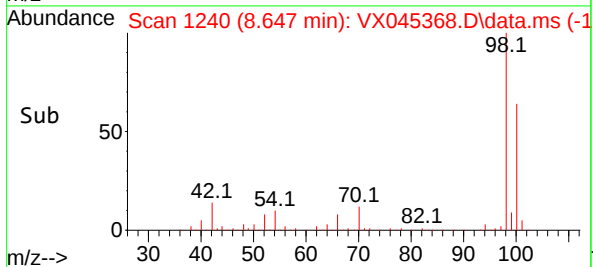
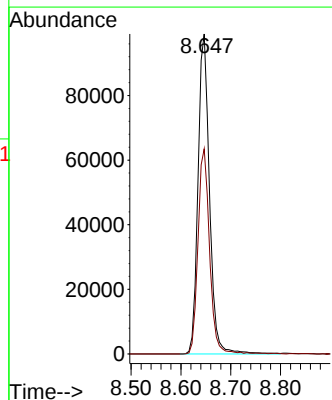
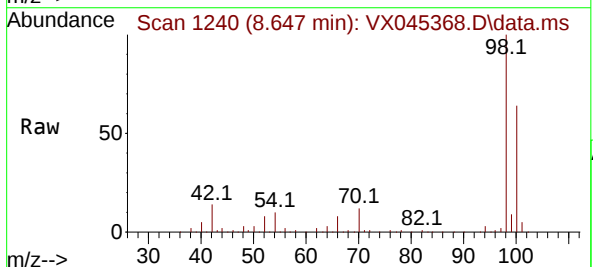
RT: 8.647 min Scan# 1240

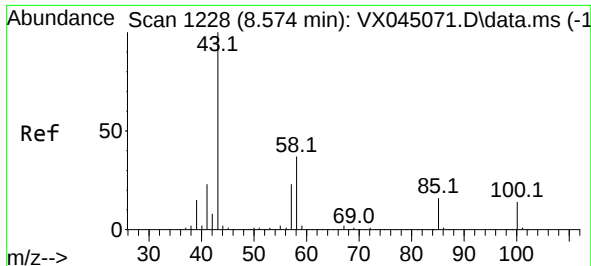
Delta R.T. -0.000 min

Lab File: VX045368.D

Acq: 20 Mar 2025 17:55

Tgt Ion:	98	Resp:	158129
Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.0	78.0

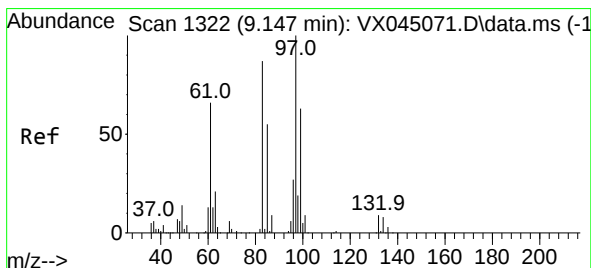
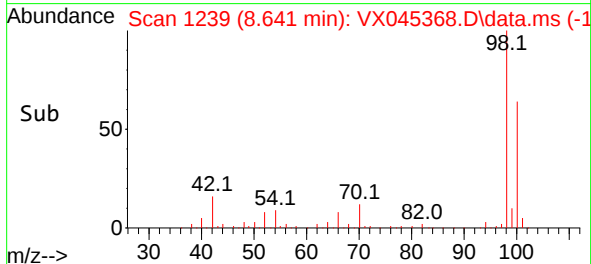
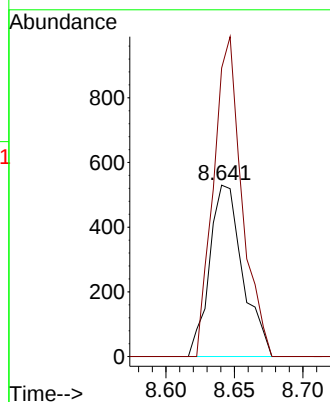
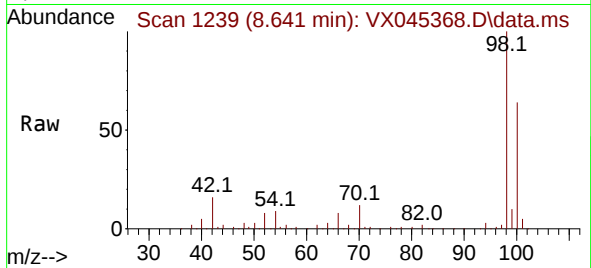




#51
4-Methyl-2-Pentanone
Concen: 0.607 ug/l
RT: 8.641 min Scan# 11
Delta R.T. 0.067 min
Lab File: VX045368.D
Acq: 20 Mar 2025 17:55

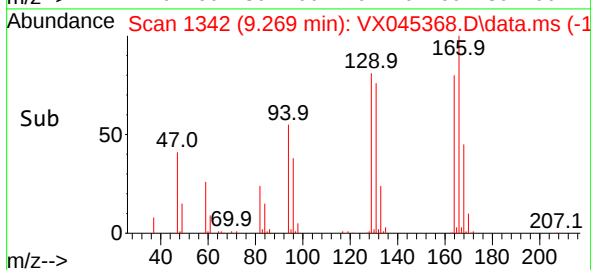
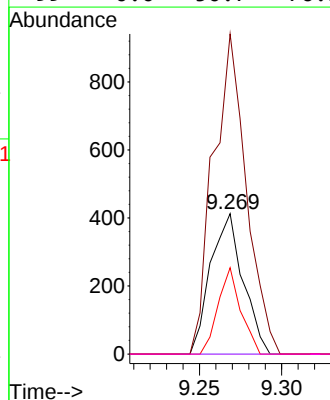
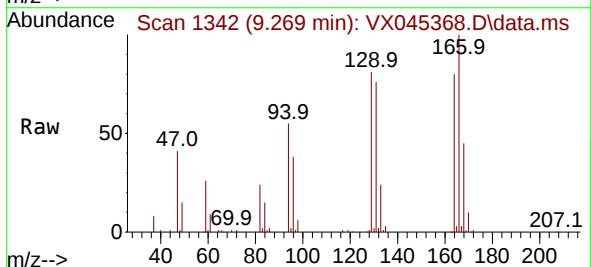
Instrument :
MSVOA_X
ClientSampleId :
RE131D3-20250313

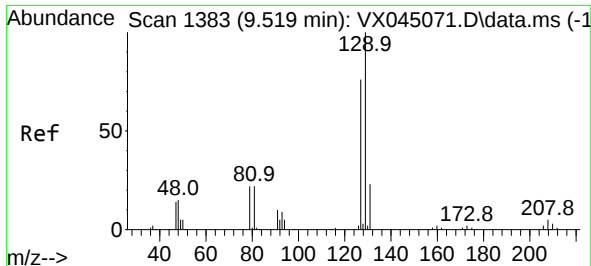
Tgt Ion: 43 Resp: 888
Ion Ratio Lower Upper
43 100
58 160.9 29.2 43.8#



#55
1,1,2-Trichloroethane
Concen: 0.651 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.122 min
Lab File: VX045368.D
Acq: 20 Mar 2025 17:55

Tgt Ion: 97 Resp: 568
Ion Ratio Lower Upper
97 100
83 227.8 69.4 104.2#
85 61.5 44.1 66.1
99 0.0 50.7 76.1#

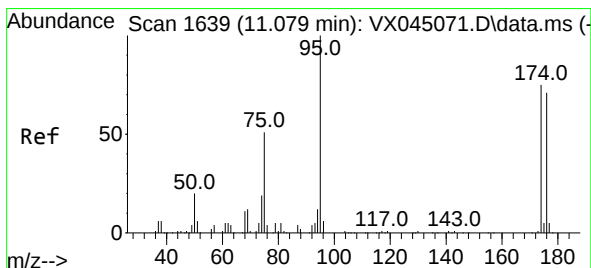
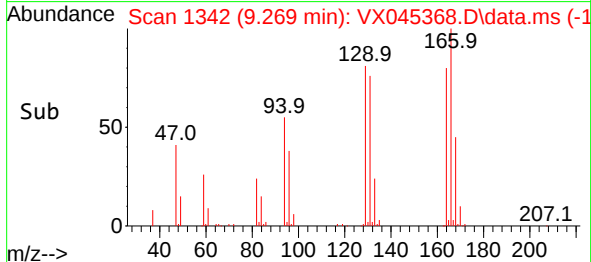
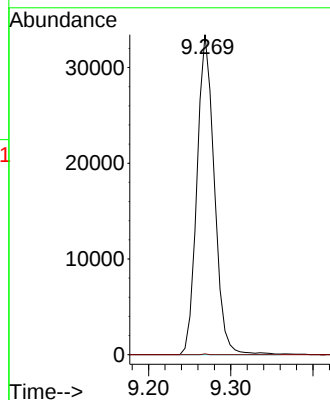
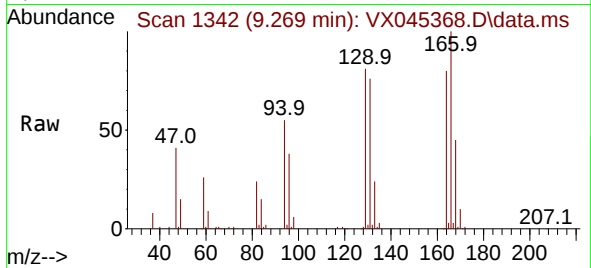




#60
Dibromochloromethane
Concen: 53.772 ug/l
RT: 9.269 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX045368.D
Acq: 20 Mar 2025 17:55

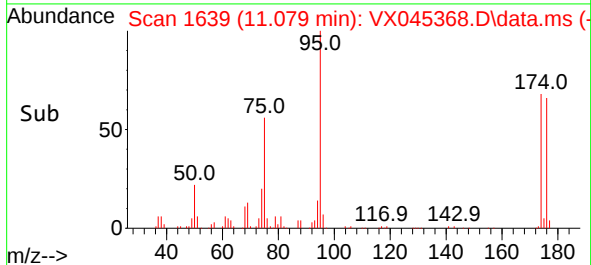
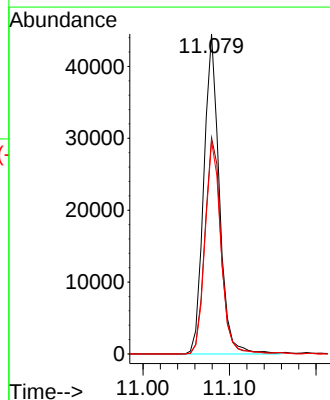
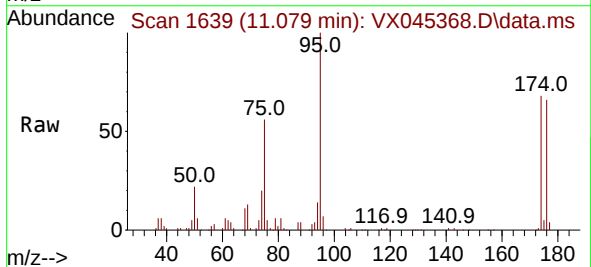
Instrument :
MSVOA_X
ClientSampleId :
RE131D3-20250313

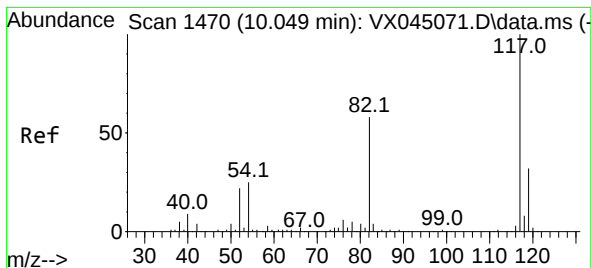
Tgt Ion:129 Resp: 49057
Ion Ratio Lower Upper
129 100
127 0.1 38.5 115.5#



#62
4-Bromofluorobenzene
Concen: 55.184 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045368.D
Acq: 20 Mar 2025 17:55

Tgt Ion: 95 Resp: 55300
Ion Ratio Lower Upper
95 100
174 70.2 0.0 148.2
176 67.8 0.0 141.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX045368.D

Acq: 20 Mar 2025 17:55

Instrument :

MSVOA_X

ClientSampleId :

RE131D3-20250313

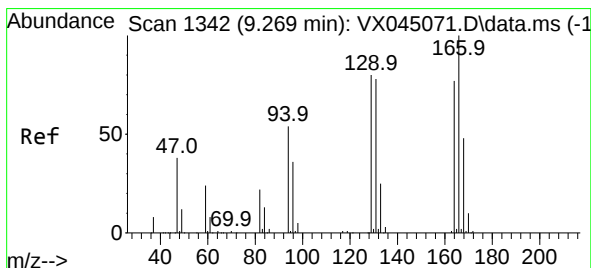
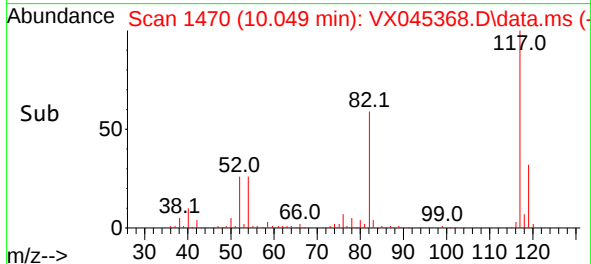
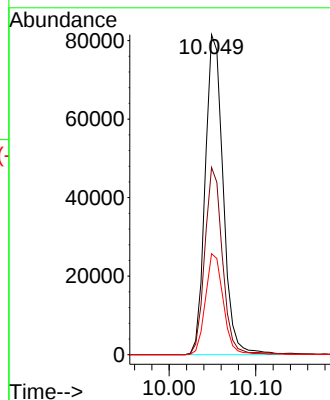
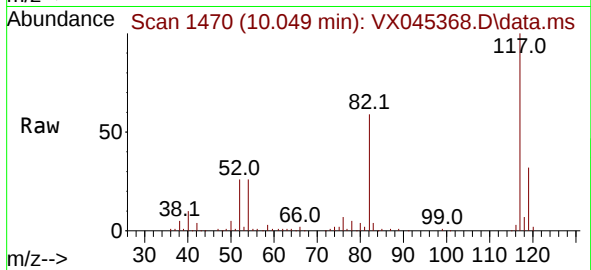
Tgt Ion:117 Resp: 117366

Ion Ratio Lower Upper

117 100

82 58.5 46.3 69.5

119 31.5 25.7 38.5



#64

Tetrachloroethene

Concen: 64.920 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VX045368.D

Acq: 20 Mar 2025 17:55

Tgt Ion:164 Resp: 48799

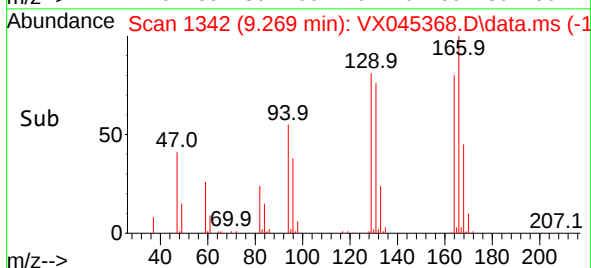
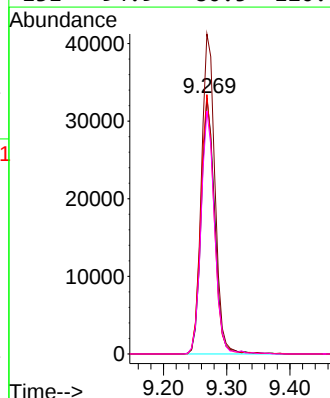
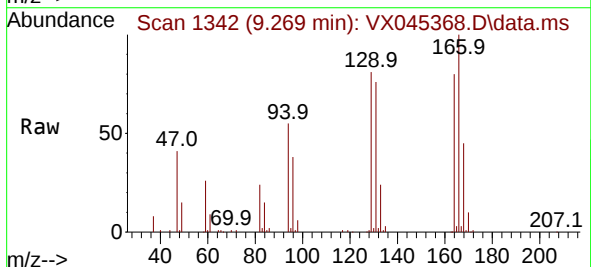
Ion Ratio Lower Upper

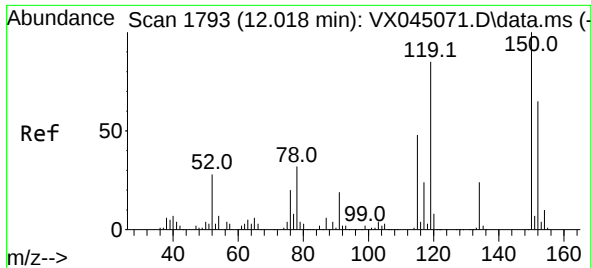
164 100

166 125.0 103.6 155.4

129 101.3 82.7 124.1

131 94.9 80.5 120.7

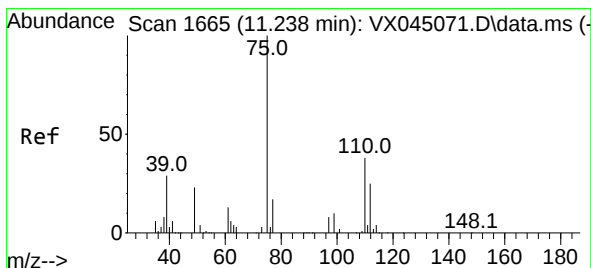
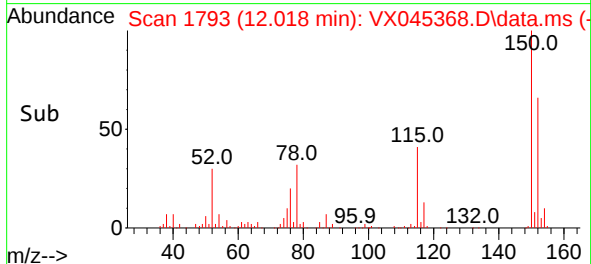
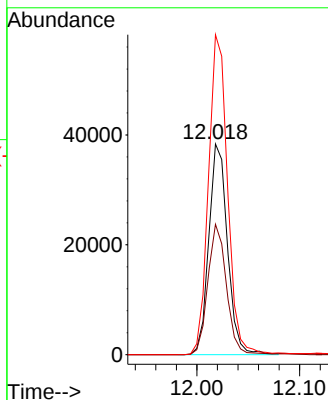
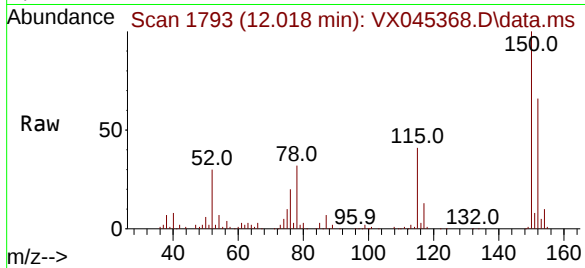




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: VX045368.D
 Acq: 20 Mar 2025 17:55

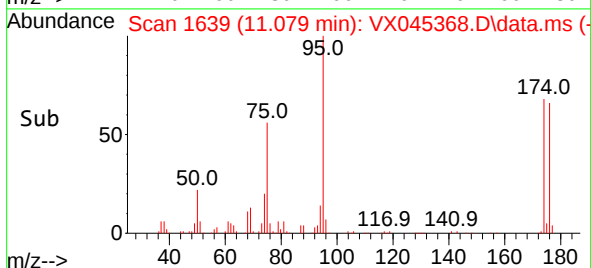
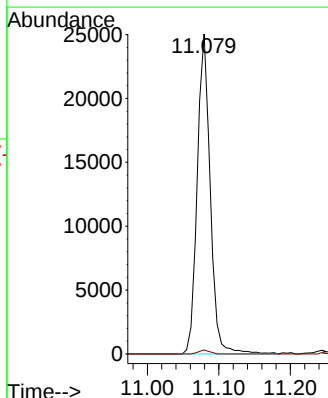
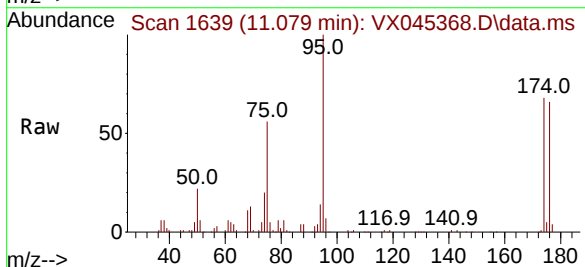
Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D3-20250313

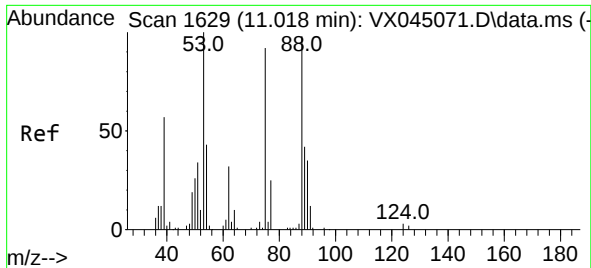
Tgt Ion:152 Resp: 48478
 Ion Ratio Lower Upper
 152 100
 115 61.9 44.2 132.6
 150 155.4 0.0 349.0



#76
 1,2,3-Trichloropropane
 Concen: 28.021 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.159 min
 Lab File: VX045368.D
 Acq: 20 Mar 2025 17:55

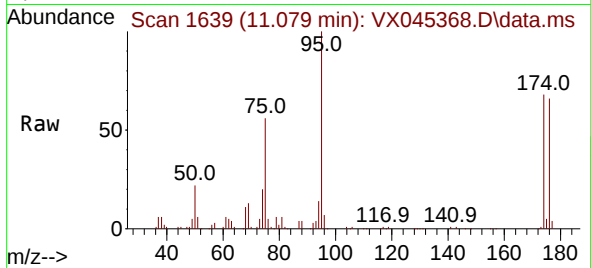
Tgt Ion: 75 Resp: 31617
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.7 62.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 95.893 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX045368.D
 Acq: 20 Mar 2025 17:55

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D3-20250313



Tgt Ion: 75 Resp: 31617
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.5 132.7#
 89 0.0 36.2 54.4#

