

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032025\
 Data File : VX045370.D
 Acq On : 20 Mar 2025 18:42
 Operator : JC/MD
 Sample : Q1582-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE114D1-20250313

Quant Time: Mar 21 01:53:16 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)

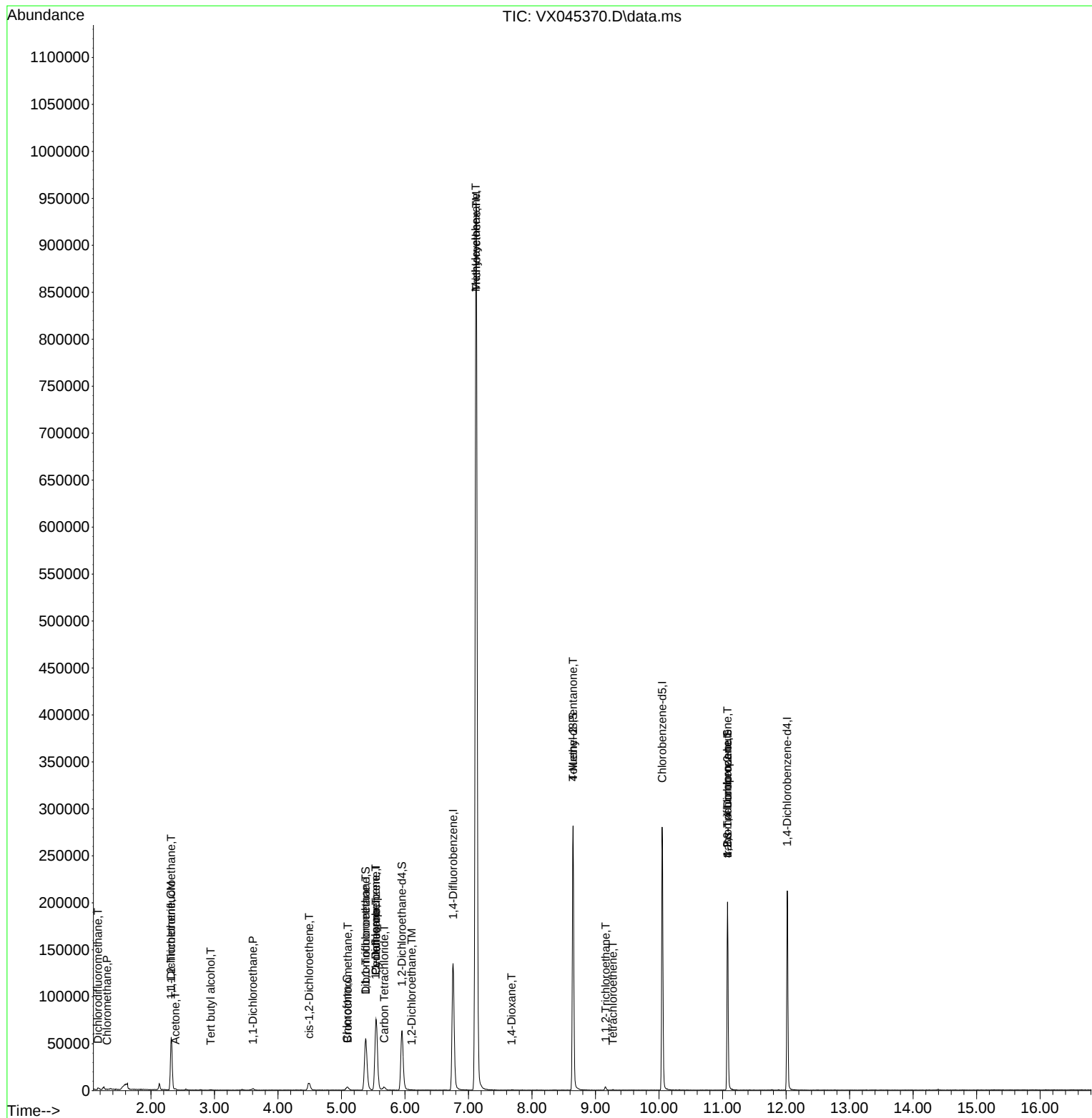
Internal Standards						
1) Pentafluorobenzene	5.544	168	66961	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	131652	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	116452	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	40317	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	61124	57.387	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 114.780%	
35) Dibromofluoromethane	5.379	113	46530	52.856	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 105.720%	
50) Toluene-d8	8.647	98	162641	50.961	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.920%	
62) 4-Bromofluorobenzene	11.079	95	51938	49.111	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 98.220%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	950	1.127	ug/l	78
3) Chloromethane	1.307	50	491	0.476	ug/l #	43
9) 1,1,2-Trichlorotrifluo...	2.319	101	19924	25.601	ug/l	97
11) Tert butyl alcohol	2.940	59	98	0.486	ug/l #	73
12) 1,1-Dichloroethene	2.313	96	2872	3.490	ug/l	86
16) Acetone	2.386	43	1362	2.756	ug/l	99
24) 1,1-Dichloroethane	3.605	63	1873	1.122	ug/l #	83
27) cis-1,2-Dichloroethene	4.489	96	4703	4.687	ug/l	97
28) Bromochloromethane	5.099	49	378	0.475	ug/l #	17
30) Chloroform	5.086	83	4423	2.667	ug/l	85
31) Cyclohexane	5.544	56	2105	1.453	ug/l #	48
32) 1,1,1-Trichloroethane	5.379	97	429	0.320	ug/l #	45
36) 1,1-Dichloropropene	5.538	75	6545	5.421	ug/l #	47
38) Carbon Tetrachloride	5.672	117	2641	2.155	ug/l	99
39) Methylcyclohexane	7.117	83	4496	3.108	ug/l #	1
42) 1,2-Dichloroethane	6.105	62	511	0.372	ug/l #	75
44) Trichloroethene	7.123	130	347433	388.124	ug/l	99
49) 1,4-Dioxane	7.677	88	159	6.531	ug/l #	27
51) 4-Methyl-2-Pentanone	8.647	43	870	0.563	ug/l #	1
55) 1,1,2-Trichloroethane	9.159	97	1121	1.217	ug/l	95
64) Tetrachloroethene	9.275	164	167	0.224	ug/l #	57
76) 1,2,3-Trichloropropane	11.079	75	28854	30.749	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	28854	105.228	ug/l #	6

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

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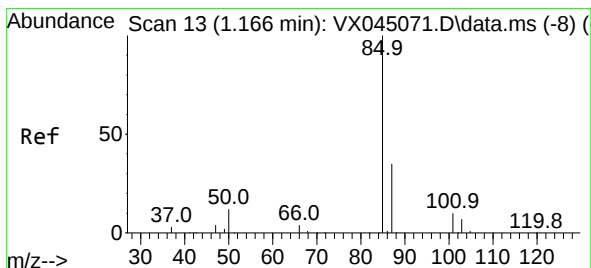
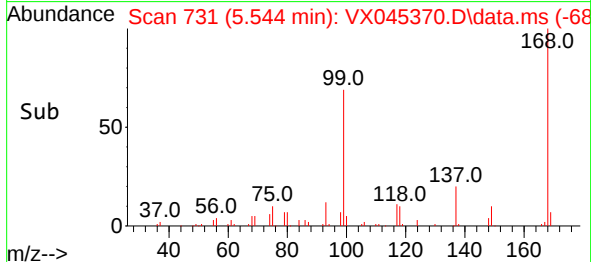
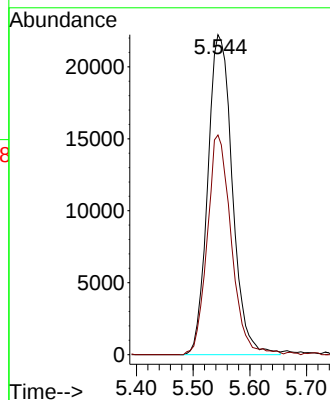
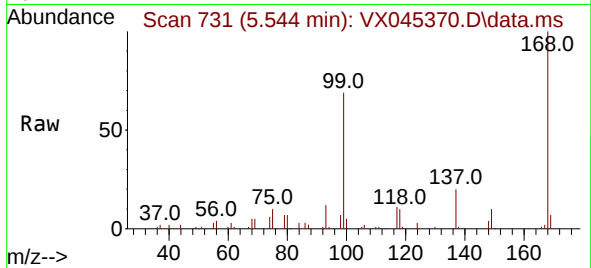




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

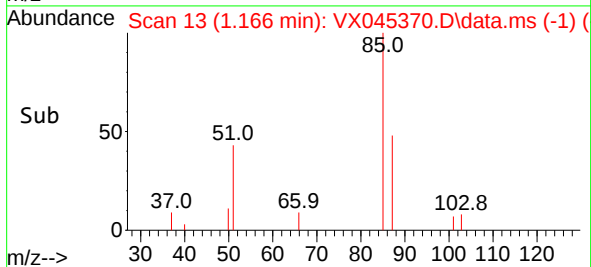
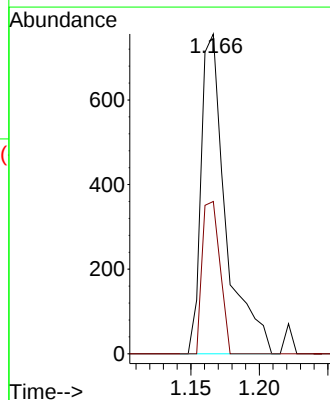
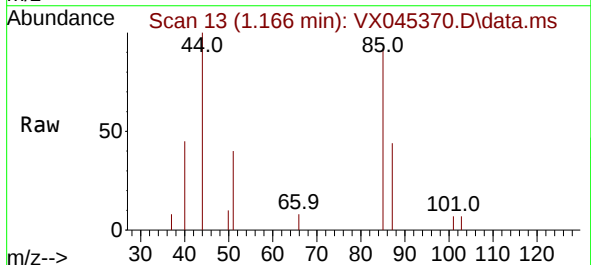
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20250313

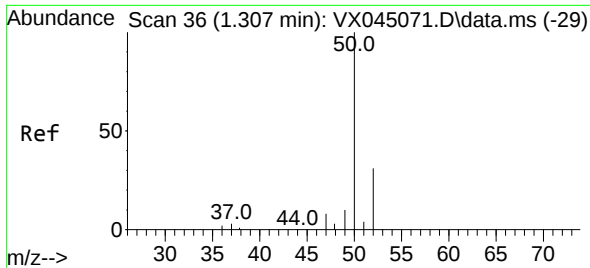
Tgt Ion:168 Resp: 66961
Ion Ratio Lower Upper
168 100
99 68.7 48.2 72.4



#2
Dichlorodifluoromethane
Concen: 1.127 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

Tgt Ion: 85 Resp: 950
Ion Ratio Lower Upper
85 100
87 47.6 17.4 52.3

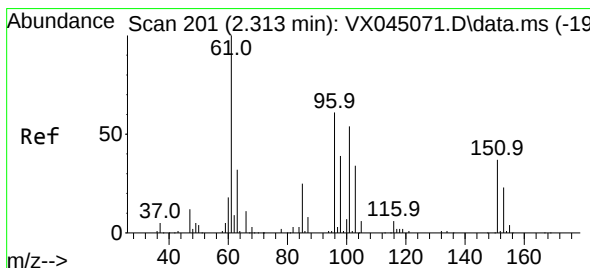
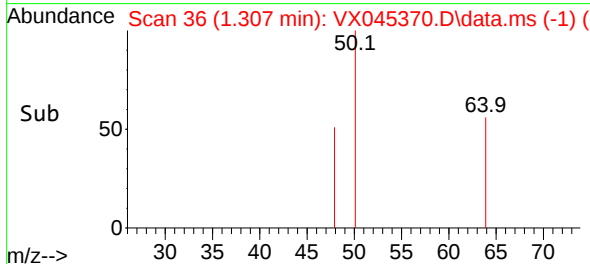
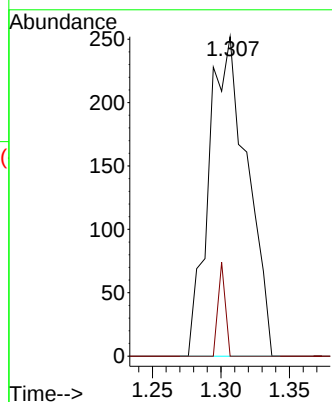
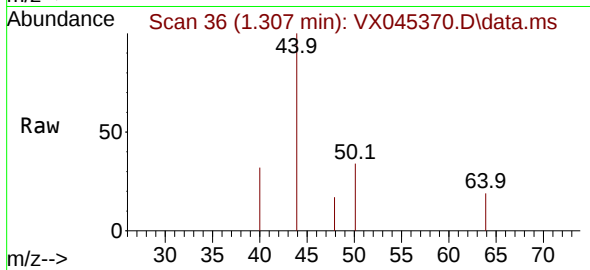




#3
Chloromethane
Concen: 0.476 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

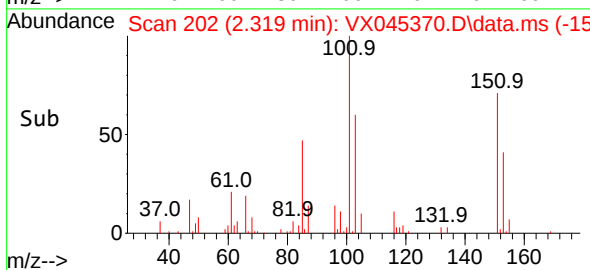
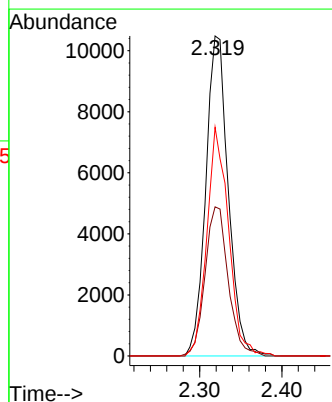
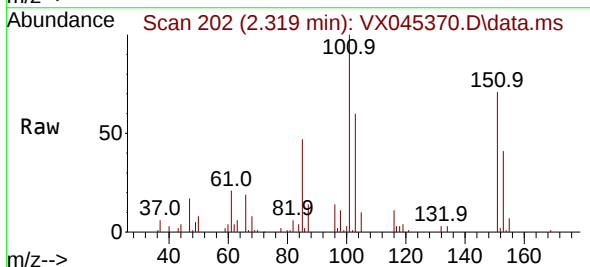
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20250313

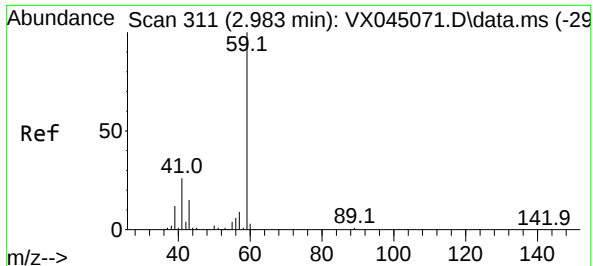
Tgt Ion: 50 Resp: 491
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 25.601 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

Tgt Ion: 101 Resp: 19924
Ion Ratio Lower Upper
101 100
85 48.0 36.2 54.4
151 68.9 56.4 84.6

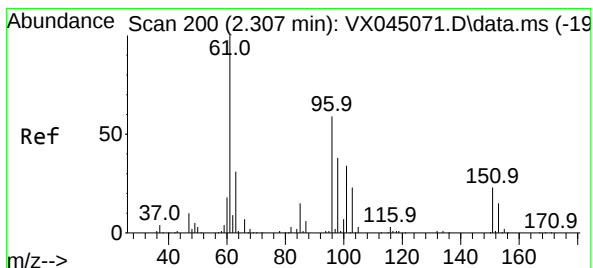
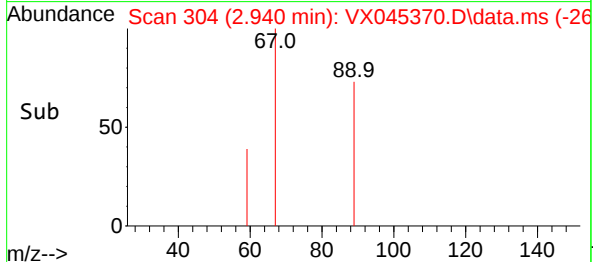
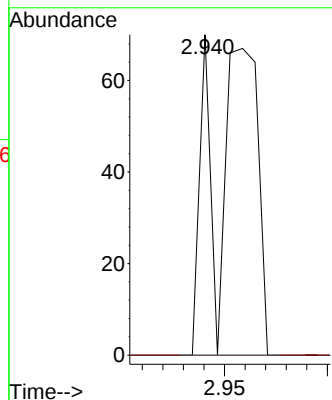
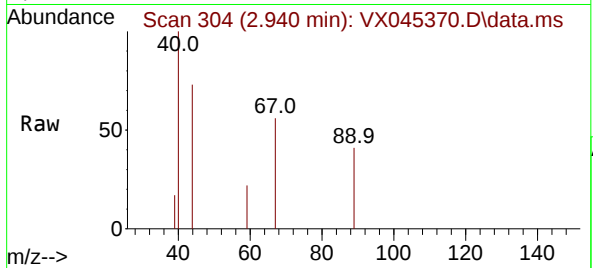




#11
Tert butyl alcohol
Concen: 0.486 ug/l
RT: 2.940 min Scan# 304
Delta R.T. -0.043 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

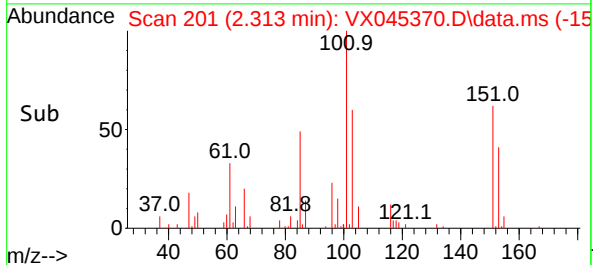
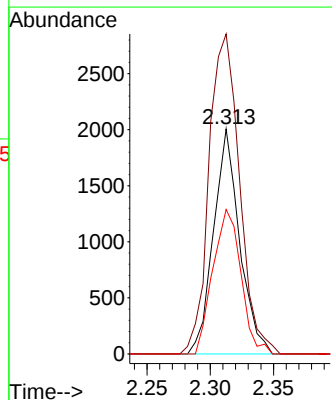
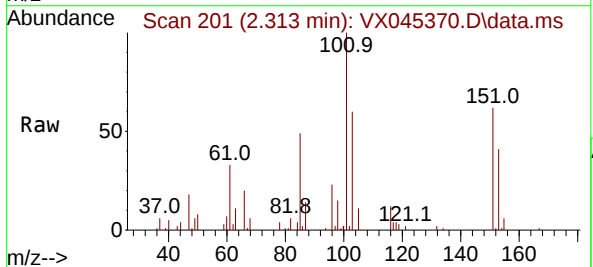
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20250313

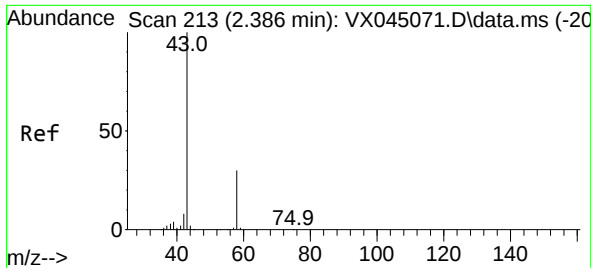
Tgt Ion: 59 Resp: 98
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



#12
1,1-Dichloroethene
Concen: 3.490 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

Tgt Ion: 96 Resp: 2872
Ion Ratio Lower Upper
96 100
61 142.3 134.6 202.0
98 64.3 51.0 76.6

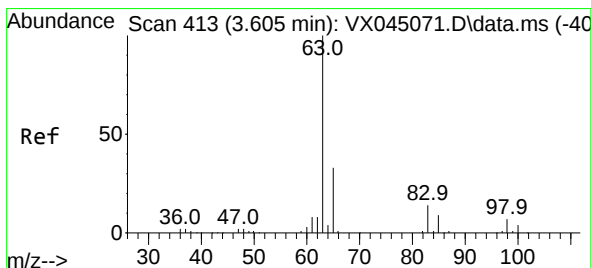
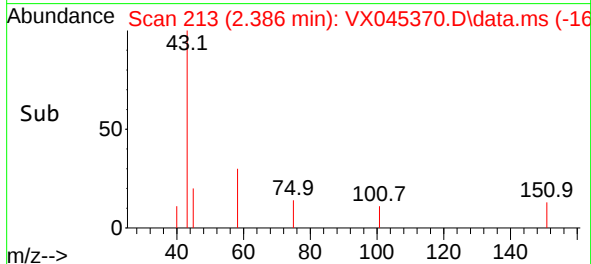
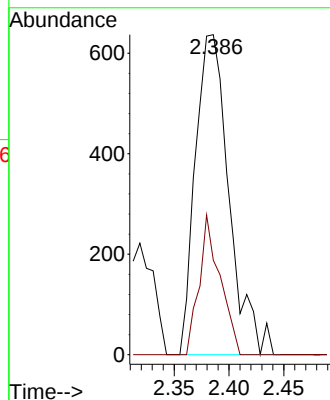
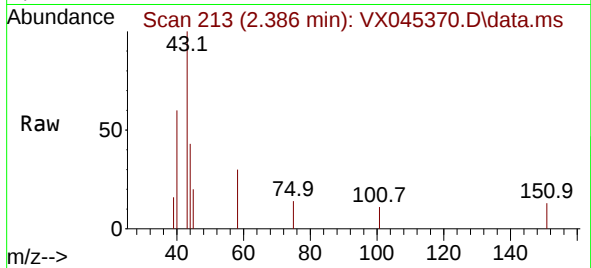




#16
Acetone
Concen: 2.756 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

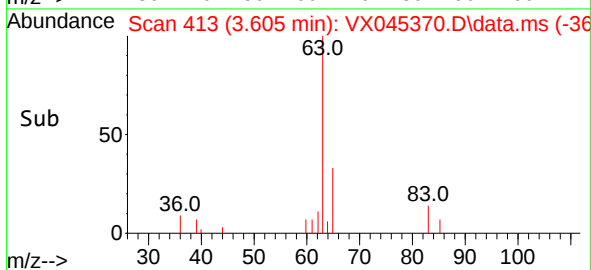
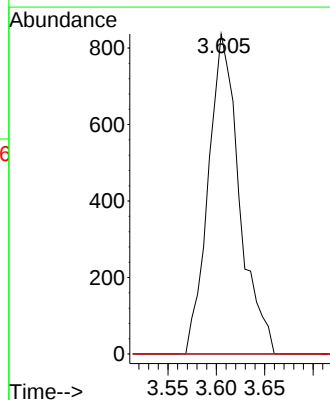
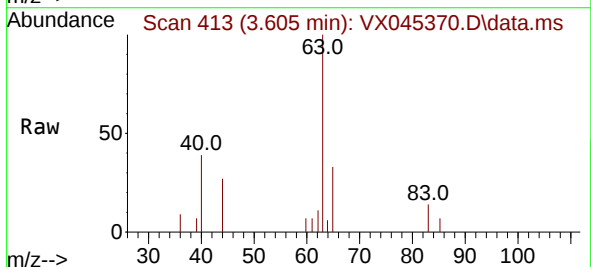
Instrument :
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ClientSampleId :
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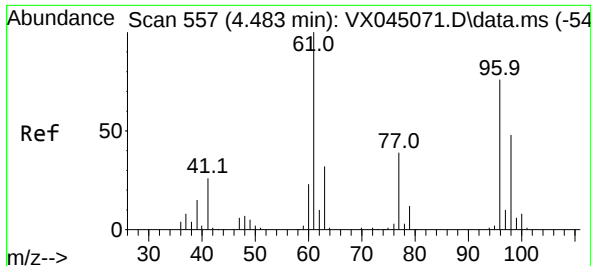
Tgt Ion: 43 Resp: 1362
Ion Ratio Lower Upper
43 100
58 29.5 24.2 36.4



#24
1,1-Dichloroethane
Concen: 1.122 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

Tgt Ion: 63 Resp: 1873
Ion Ratio Lower Upper
63 100
98 0.0 3.4 10.2#
100 0.0 2.1 6.5#





#27

cis-1,2-Dichloroethene

Concen: 4.687 ug/l

RT: 4.489 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX045370.D

Acq: 20 Mar 2025 18:42

Instrument :

MSVOA_X

ClientSampleId :

RE114D1-20250313

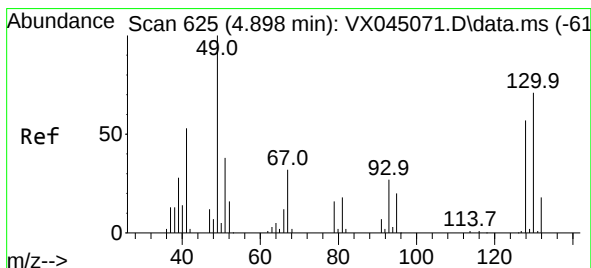
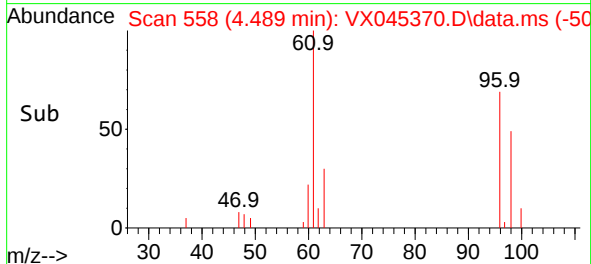
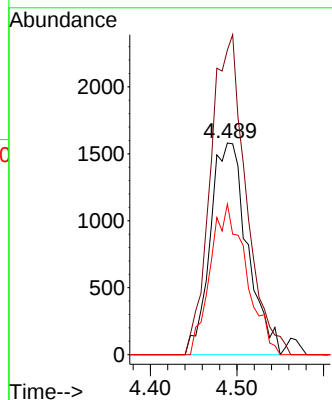
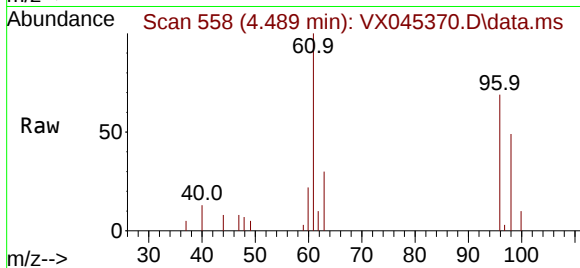
Tgt Ion: 96 Resp: 4703

Ion Ratio Lower Upper

96 100

61 144.3 0.0 283.2

98 69.0 0.0 128.0



#28

Bromochloromethane

Concen: 0.475 ug/l

RT: 5.099 min Scan# 658

Delta R.T. 0.201 min

Lab File: VX045370.D

Acq: 20 Mar 2025 18:42

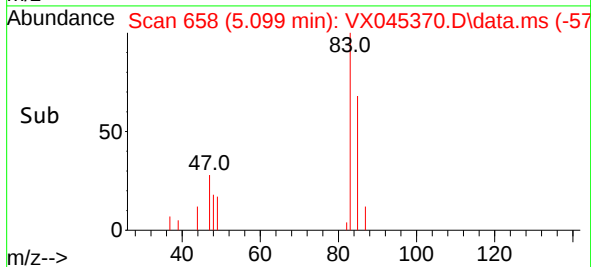
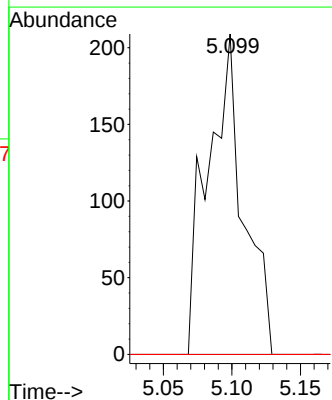
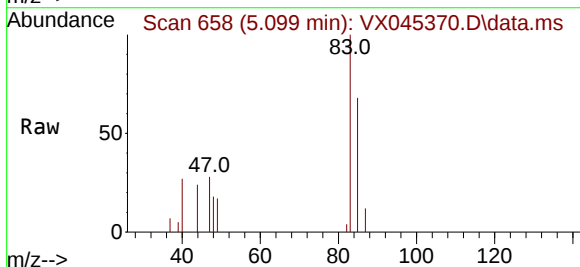
Tgt Ion: 49 Resp: 378

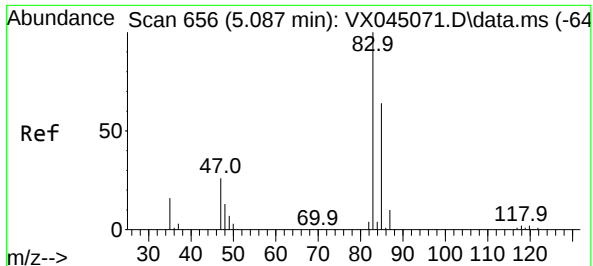
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.4

130 0.0 56.1 84.1#





#30

Chloroform

Concen: 2.667 ug/l

RT: 5.086 min Scan# 61

Delta R.T. -0.000 min

Lab File: VX045370.D

Acq: 20 Mar 2025 18:42

Instrument :

MSVOA_X

ClientSampleId :

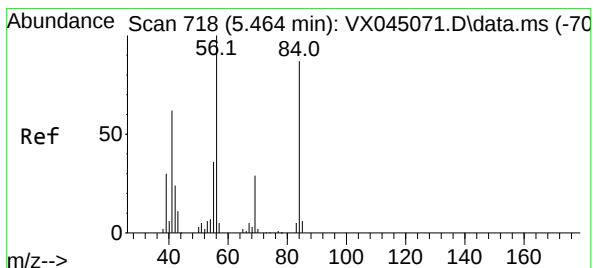
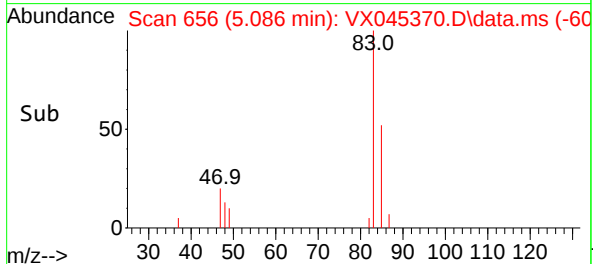
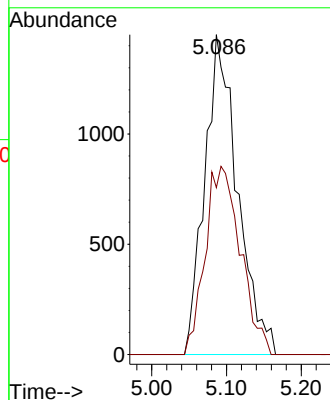
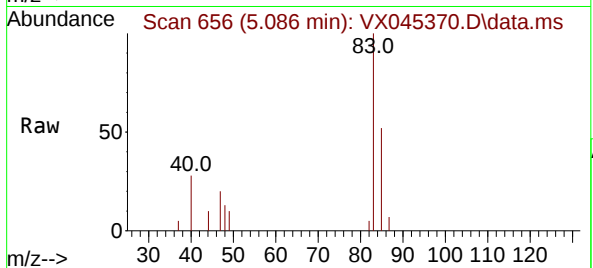
RE114D1-20250313

Tgt Ion: 83 Resp: 4423

Ion Ratio Lower Upper

83 100

85 52.2 51.4 77.2



#31

Cyclohexane

Concen: 1.453 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.079 min

Lab File: VX045370.D

Acq: 20 Mar 2025 18:42

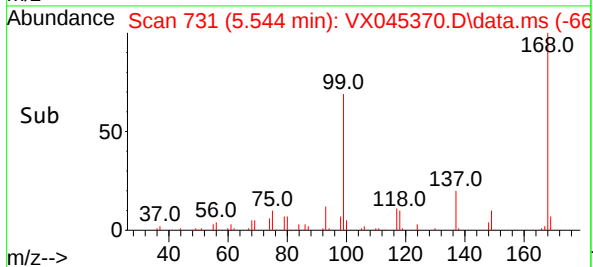
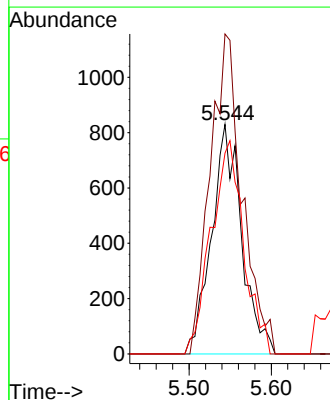
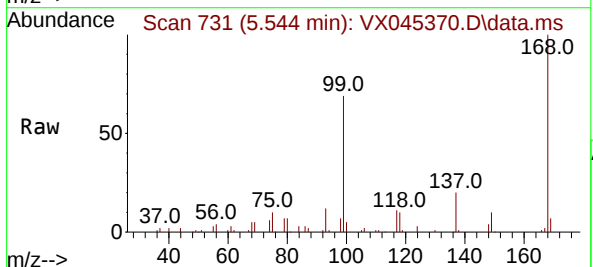
Tgt Ion: 56 Resp: 2105

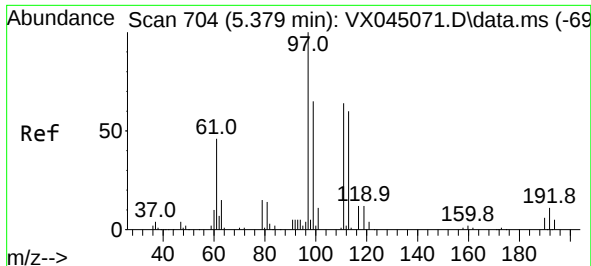
Ion Ratio Lower Upper

56 100

69 139.4 23.4 35.2#

84 87.5 69.4 104.2





#32

1,1,1-Trichloroethane

Concen: 0.320 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX045370.D

Acq: 20 Mar 2025 18:42

Instrument :

MSVOA_X

ClientSampleId :

RE114D1-20250313

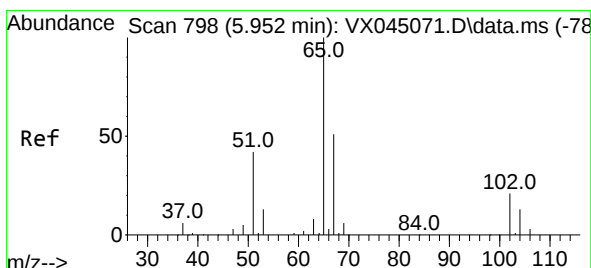
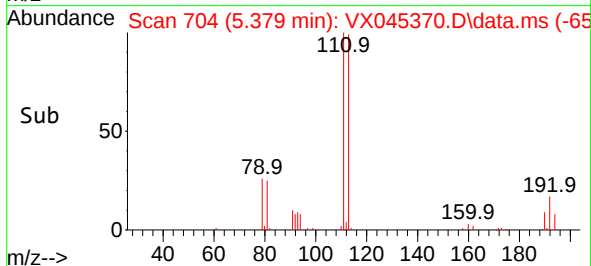
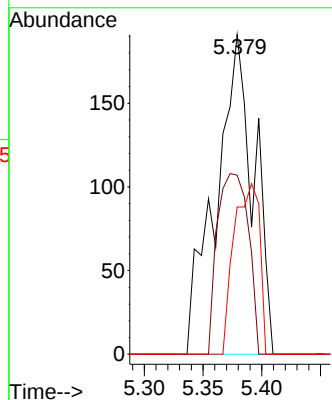
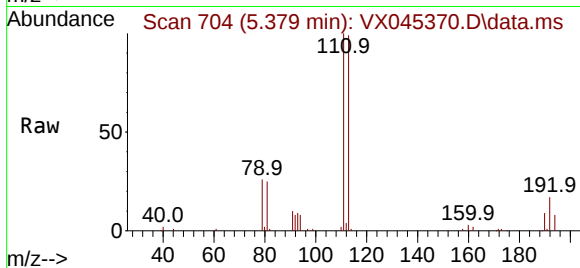
Tgt Ion: 97 Resp: 429

Ion Ratio Lower Upper

97 100

99 0.0 51.6 77.4#

61 35.9 38.4 57.6#



#33

1,2-Dichloroethane-d4

Concen: 57.387 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045370.D

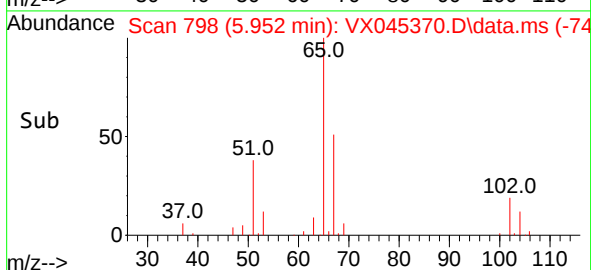
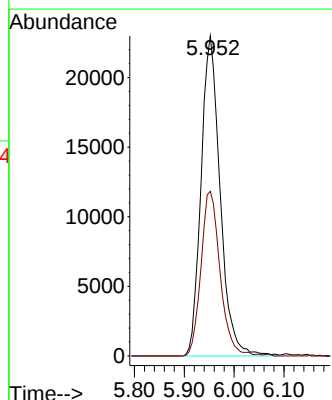
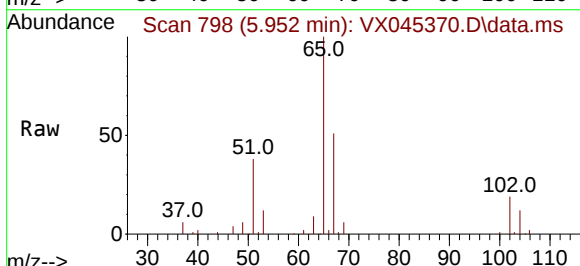
Acq: 20 Mar 2025 18:42

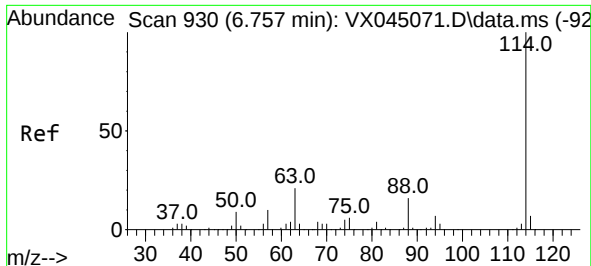
Tgt Ion: 65 Resp: 61124

Ion Ratio Lower Upper

65 100

67 51.6 0.0 106.2

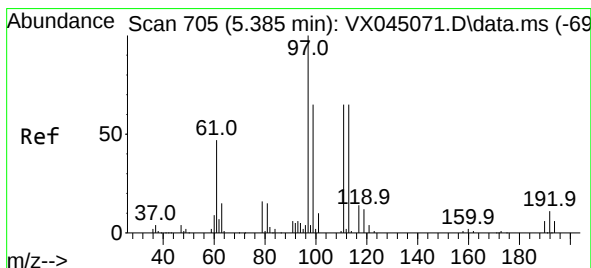
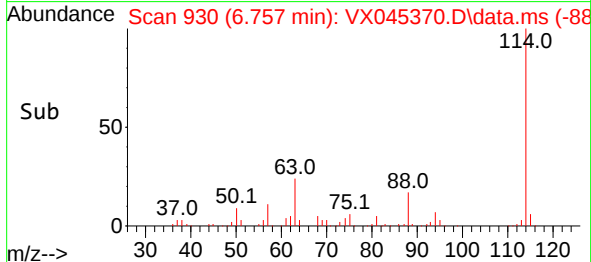
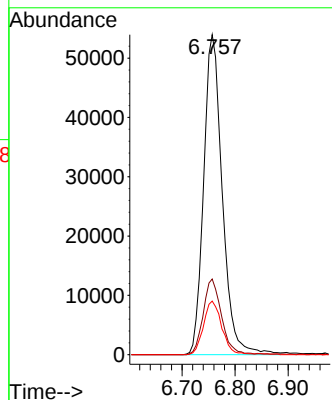
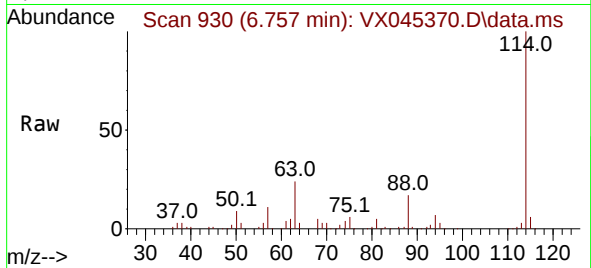




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

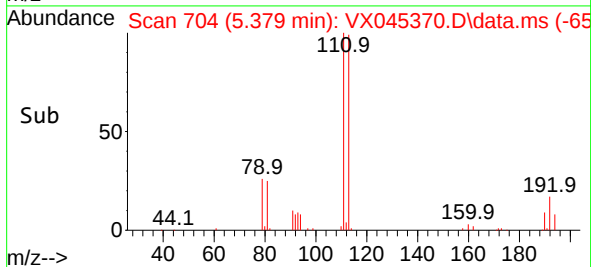
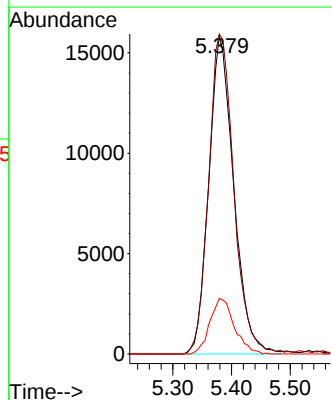
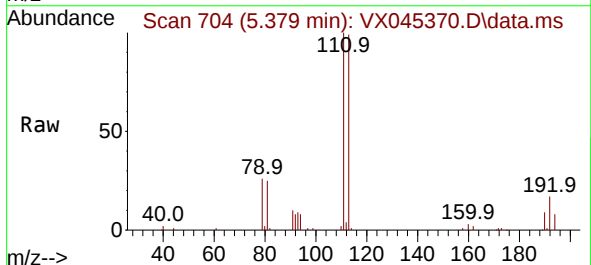
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20250313

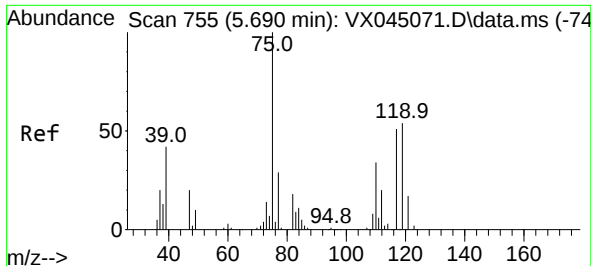
Tgt Ion:114 Resp: 131652
Ion Ratio Lower Upper
114 100
63 23.7 0.0 41.8
88 16.8 0.0 32.8



#35
Dibromofluoromethane
Concen: 52.856 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

Tgt Ion:113 Resp: 46530
Ion Ratio Lower Upper
113 100
111 102.5 81.8 122.6
192 17.2 14.3 21.5





#36

1,1-Dichloropropene

Concen: 5.421 ug/l

RT: 5.538 min Scan# 71

Delta R.T. -0.152 min

Lab File: VX045370.D

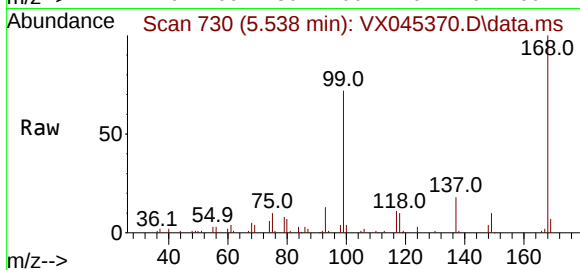
Acq: 20 Mar 2025 18:42

Instrument :

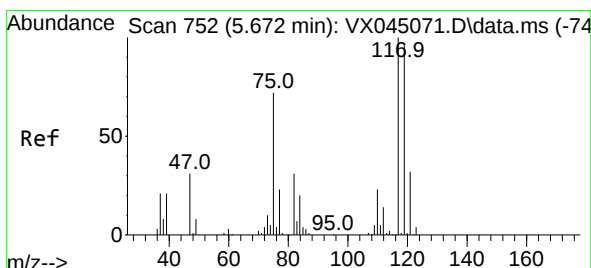
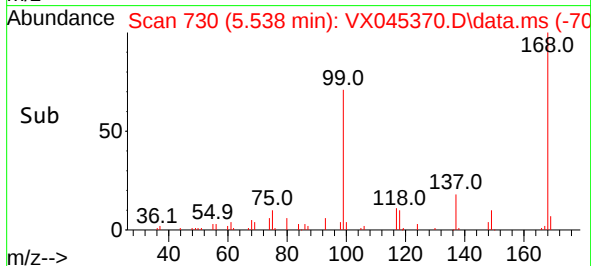
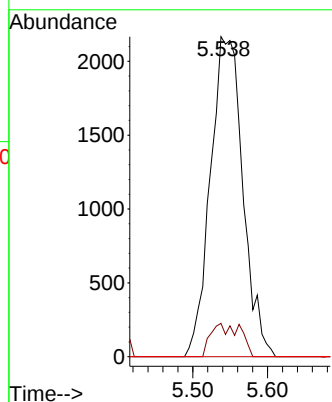
MSVOA_X

ClientSampleId :

RE114D1-20250313



Tgt Ion:	75	Resp:	6545
Ion Ratio	Lower	Upper	
75	100		
110	4.9	16.9	50.6#
77	0.0	24.5	36.7#



#38

Carbon Tetrachloride

Concen: 2.155 ug/l

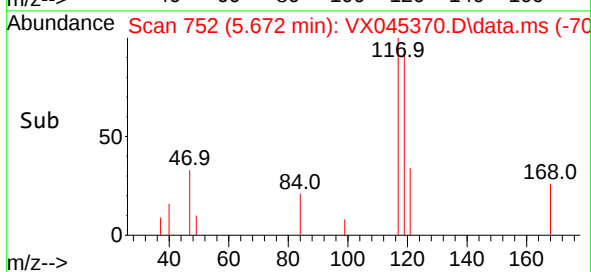
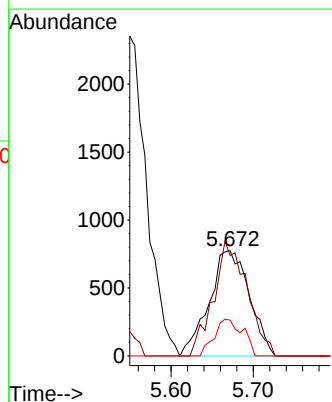
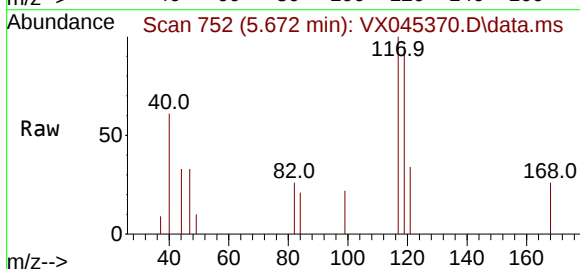
RT: 5.672 min Scan# 752

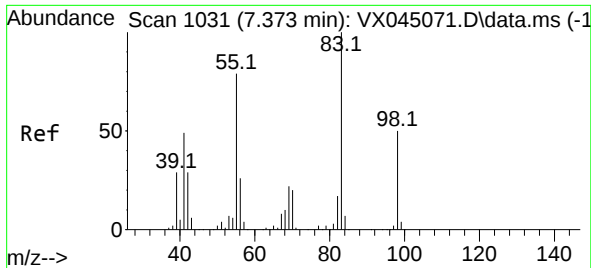
Delta R.T. -0.000 min

Lab File: VX045370.D

Acq: 20 Mar 2025 18:42

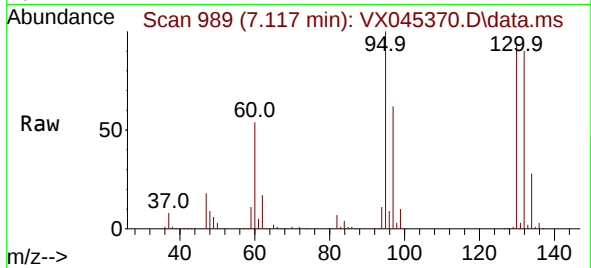
Tgt Ion:	117	Resp:	2641
Ion Ratio	Lower	Upper	
117	100		
119	95.4	76.7	115.1
121	33.9	25.5	38.3



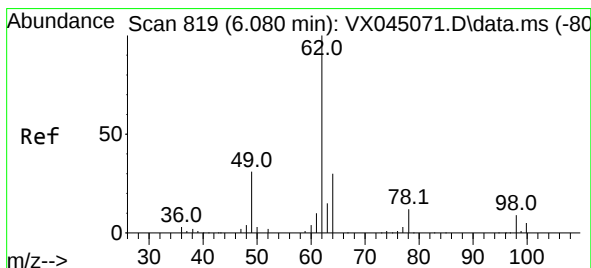
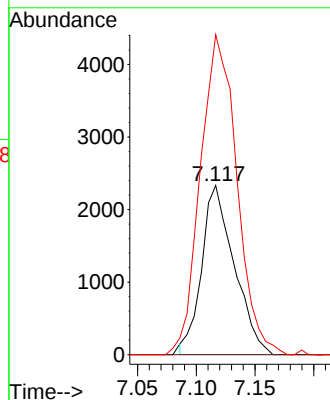
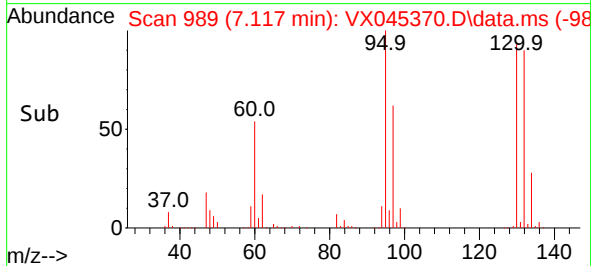


#39
Methylcyclohexane
Concen: 3.108 ug/l
RT: 7.117 min Scan# 91
Delta R.T. -0.256 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20250313

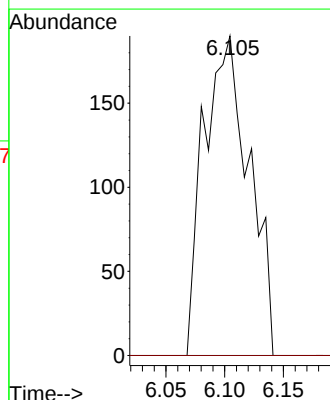
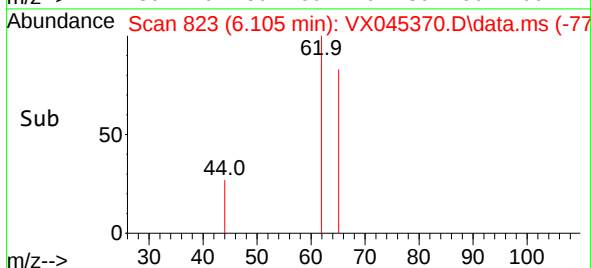
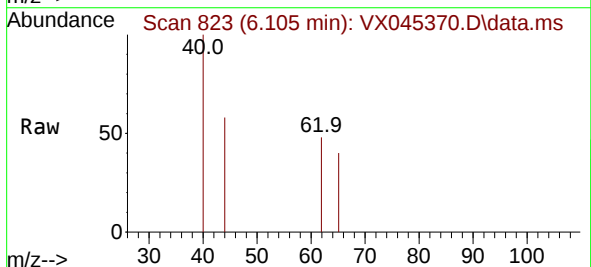


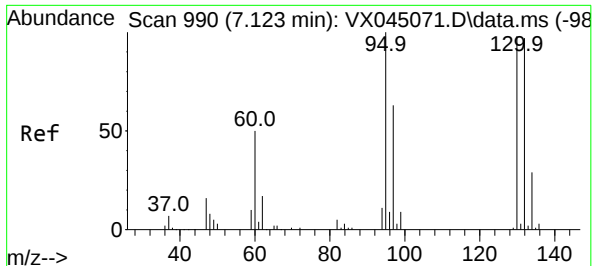
Tgt Ion: 83 Resp: 4496
Ion Ratio Lower Upper
83 100
55 0.0 63.0 94.4#
98 186.5 39.7 59.5#



#42
1,2-Dichloroethane
Concen: 0.372 ug/l
RT: 6.105 min Scan# 823
Delta R.T. 0.024 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

Tgt Ion: 62 Resp: 511
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.2

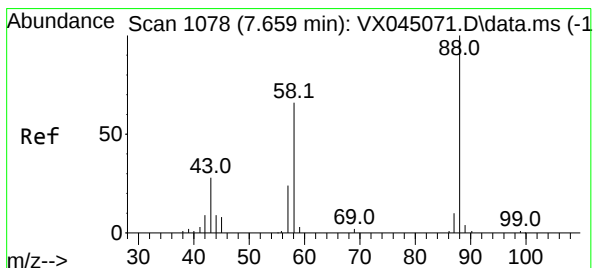
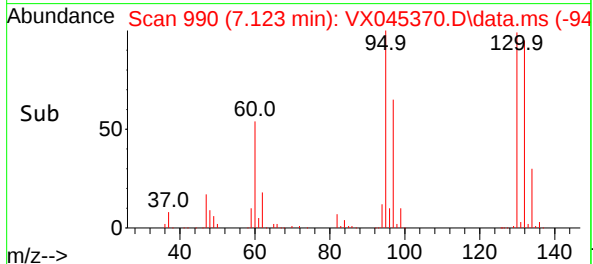
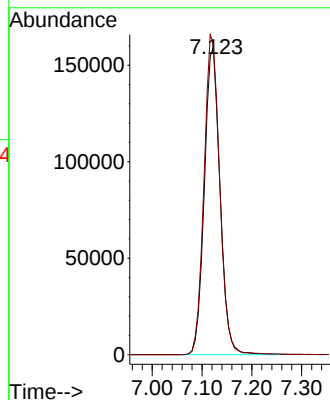
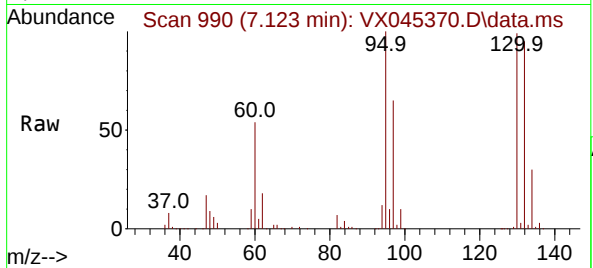




#44
Trichloroethene
Concen: 388.124 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

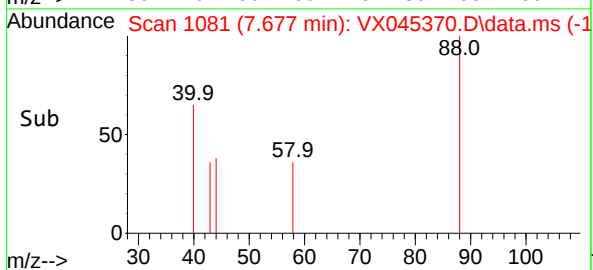
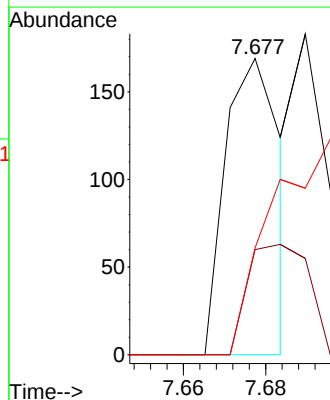
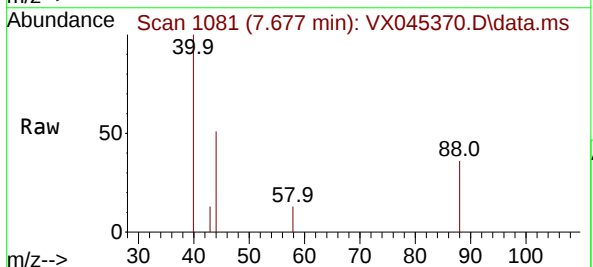
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20250313

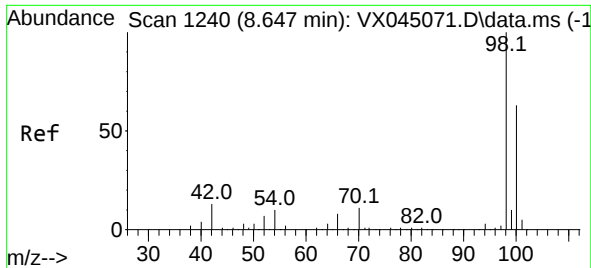
Tgt Ion:130 Resp: 347433
Ion Ratio Lower Upper
130 100
95 101.2 0.0 205.0



#49
1,4-Dioxane
Concen: 6.531 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. 0.018 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

Tgt Ion: 88 Resp: 159
Ion Ratio Lower Upper
88 100
43 40.9 28.7 43.1
58 156.6 55.8 83.8#

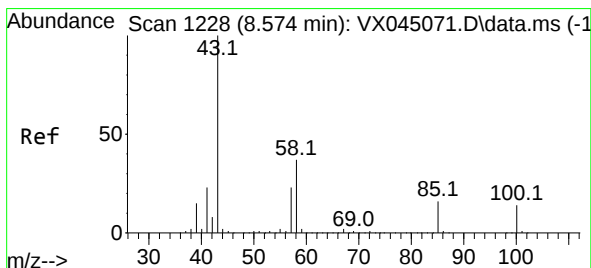
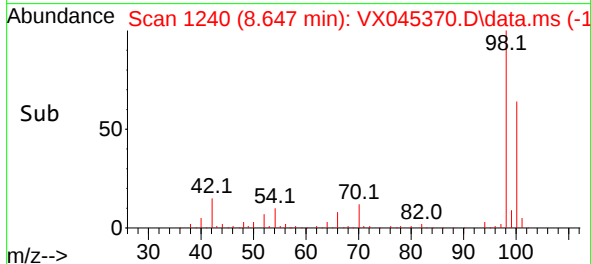
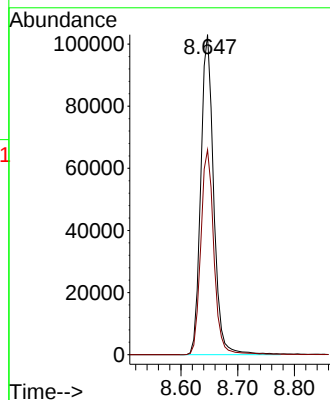
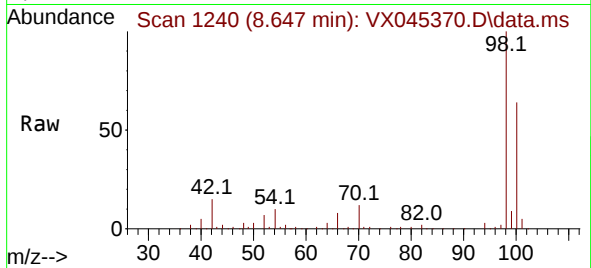




#50
Toluene-d8
Concen: 50.961 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

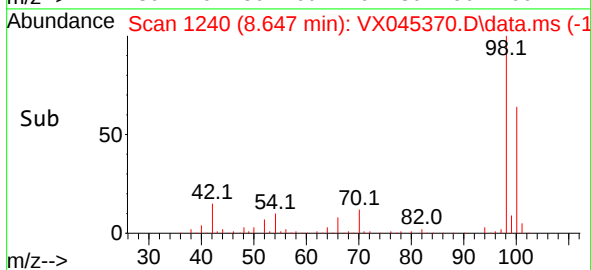
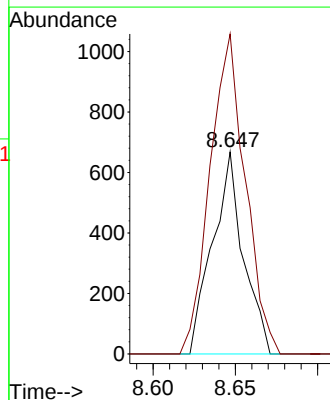
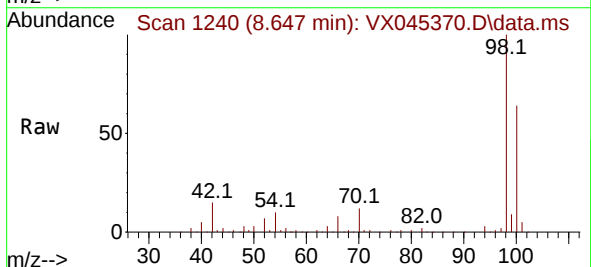
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20250313

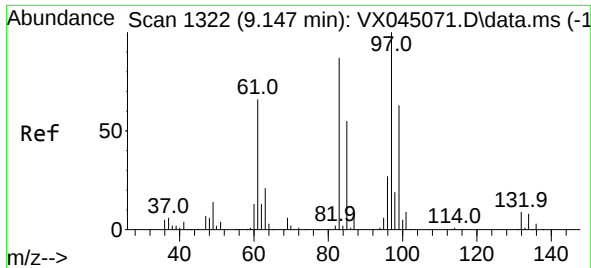
Tgt Ion: 98 Resp: 162641
Ion Ratio Lower Upper
98 100
100 65.2 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.563 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.073 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

Tgt Ion: 43 Resp: 870
Ion Ratio Lower Upper
43 100
58 181.5 29.2 43.8#

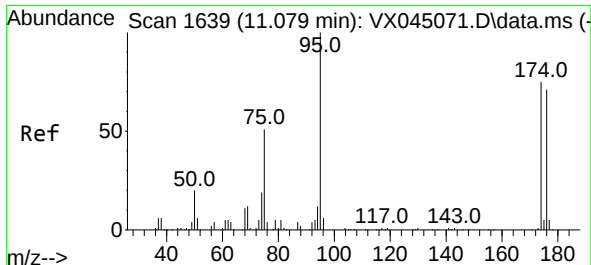
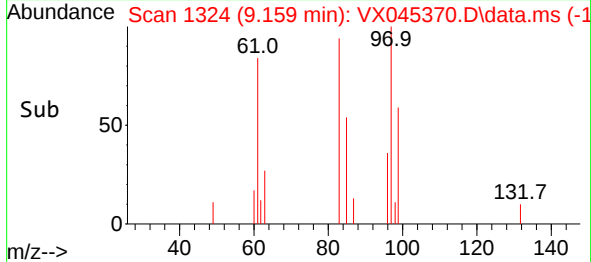
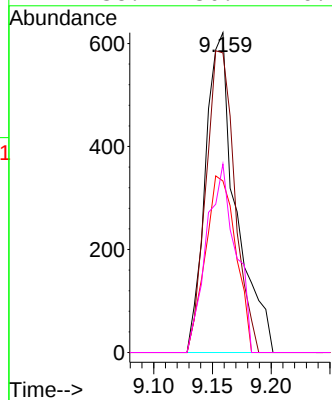
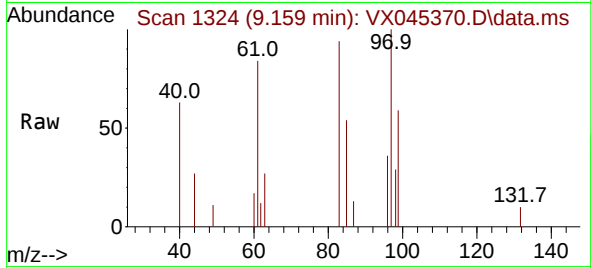




#55
1,1,2-Trichloroethane
Concen: 1.217 ug/l
RT: 9.159 min Scan# 11
Delta R.T. 0.012 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

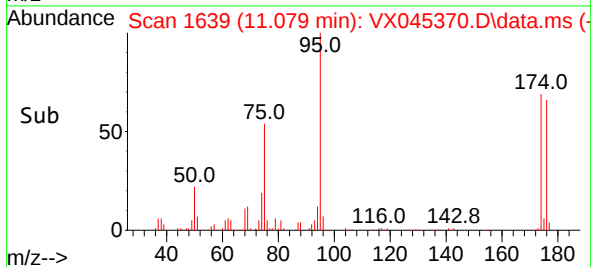
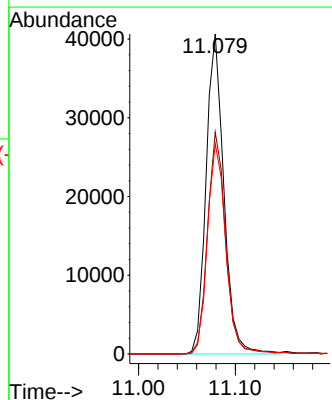
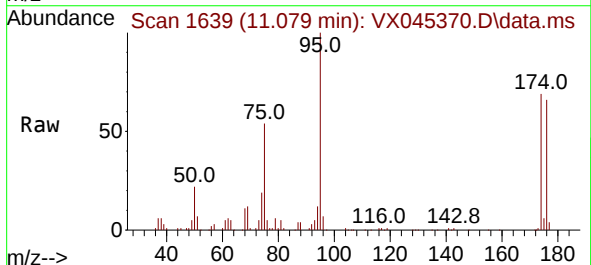
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20250313

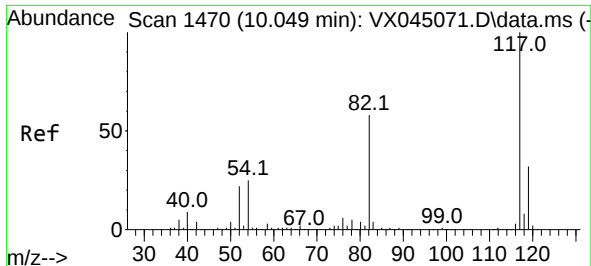
Tgt Ion: 97	Resp: 1121
Ion Ratio	Lower Upper
97	100
83	93.7 69.4 104.2
85	53.6 44.1 66.1
99	58.9 50.7 76.1



#62
4-Bromofluorobenzene
Concen: 49.111 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

Tgt Ion: 95	Resp: 51938
Ion Ratio	Lower Upper
95	100
174	70.8 0.0 148.2
176	68.6 0.0 141.4

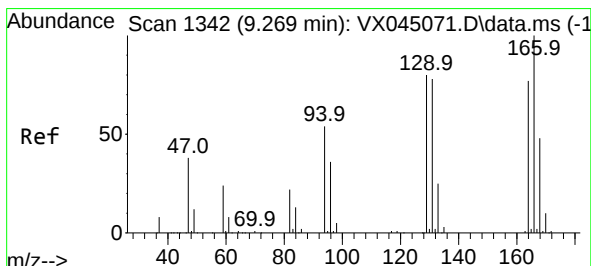
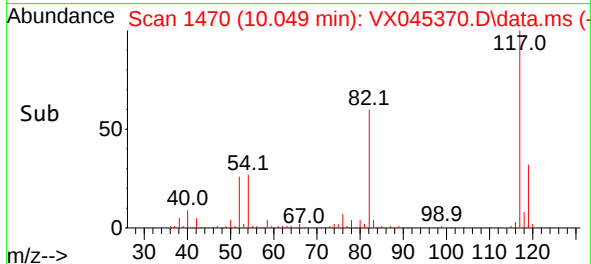
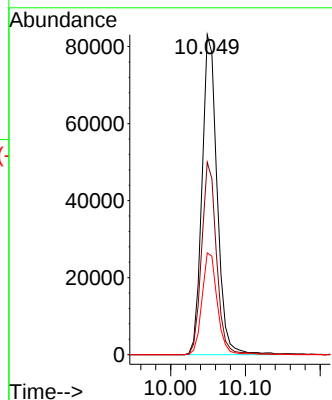
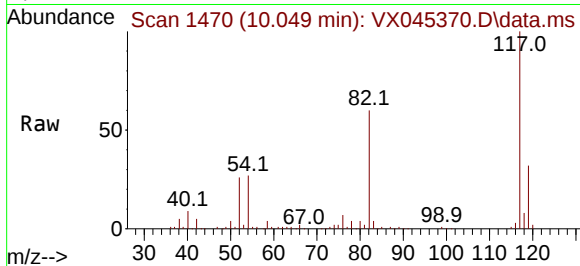




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

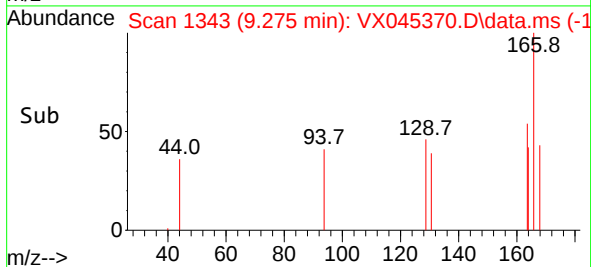
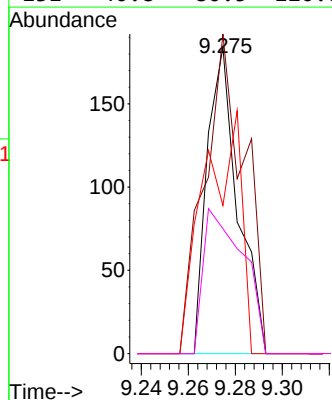
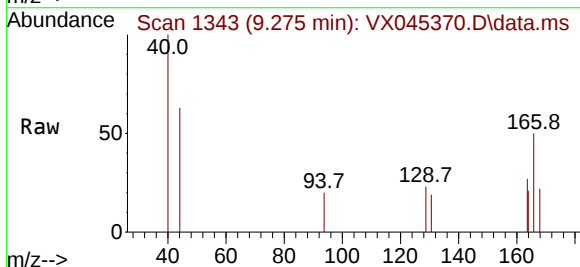
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20250313

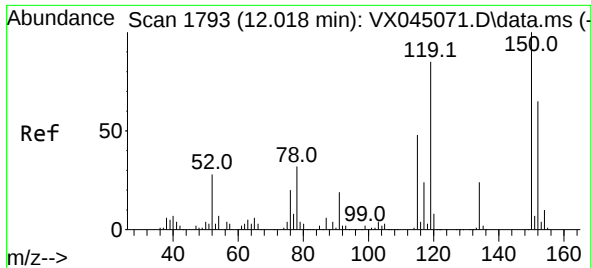
Tgt Ion:117 Resp: 116452
Ion Ratio Lower Upper
117 100
82 60.2 46.3 69.5
119 31.8 25.7 38.5



#64
Tetrachloroethene
Concen: 0.224 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

Tgt Ion:164 Resp: 167
Ion Ratio Lower Upper
164 100
166 104.3 103.6 155.4
129 48.4 82.7 124.1#
131 40.8 80.5 120.7#

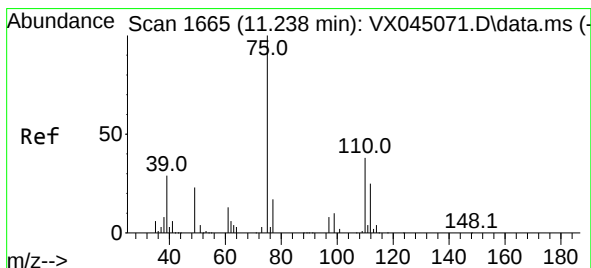
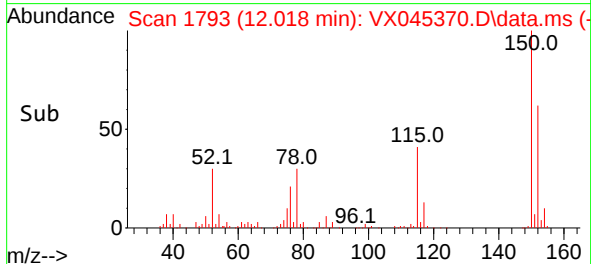
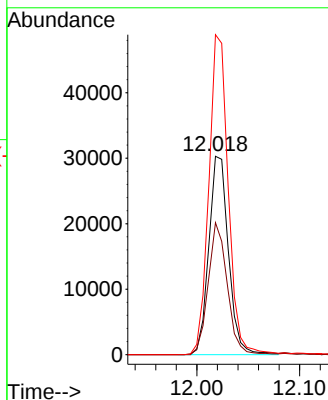
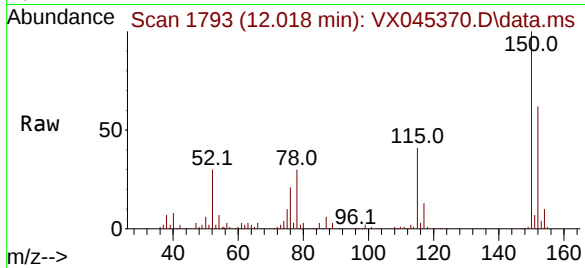




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

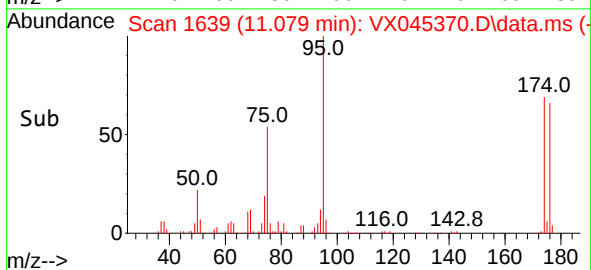
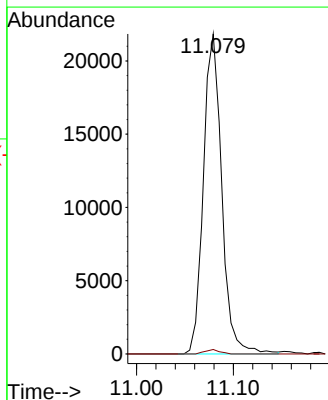
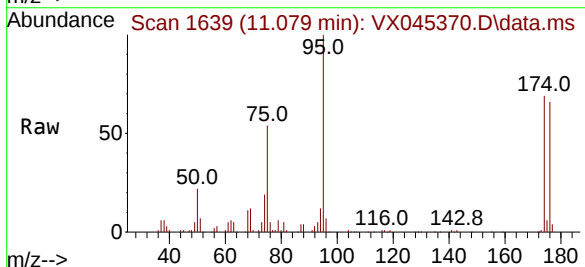
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20250313

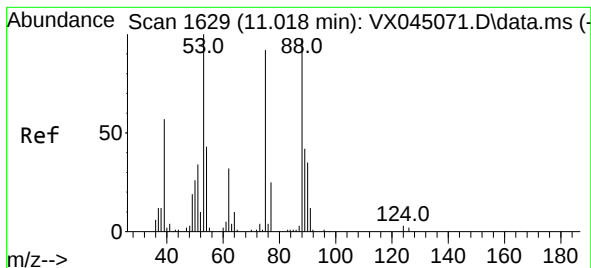
Tgt Ion:152 Resp: 40317
Ion Ratio Lower Upper
152 100
115 64.2 44.2 132.6
150 160.0 0.0 349.0



#76
1,2,3-Trichloropropane
Concen: 30.749 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

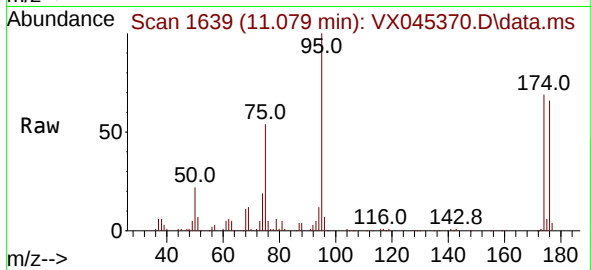
Tgt Ion: 75 Resp: 28854
Ion Ratio Lower Upper
75 100
77 1.1 20.7 62.1#





#81
trans-1,4-Dichloro-2-butene
Concen: 105.228 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX045370.D
Acq: 20 Mar 2025 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20250313



Tgt Ion: 75 Resp: 28854
Ion Ratio Lower Upper
75 100
53 0.0 88.5 132.7#
89 0.0 36.2 54.4#

