

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032025\
 Data File : VX045366.D
 Acq On : 20 Mar 2025 17:09
 Operator : JC/MD
 Sample : Q1582-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D1-20250313

Quant Time: Mar 21 01:51:22 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

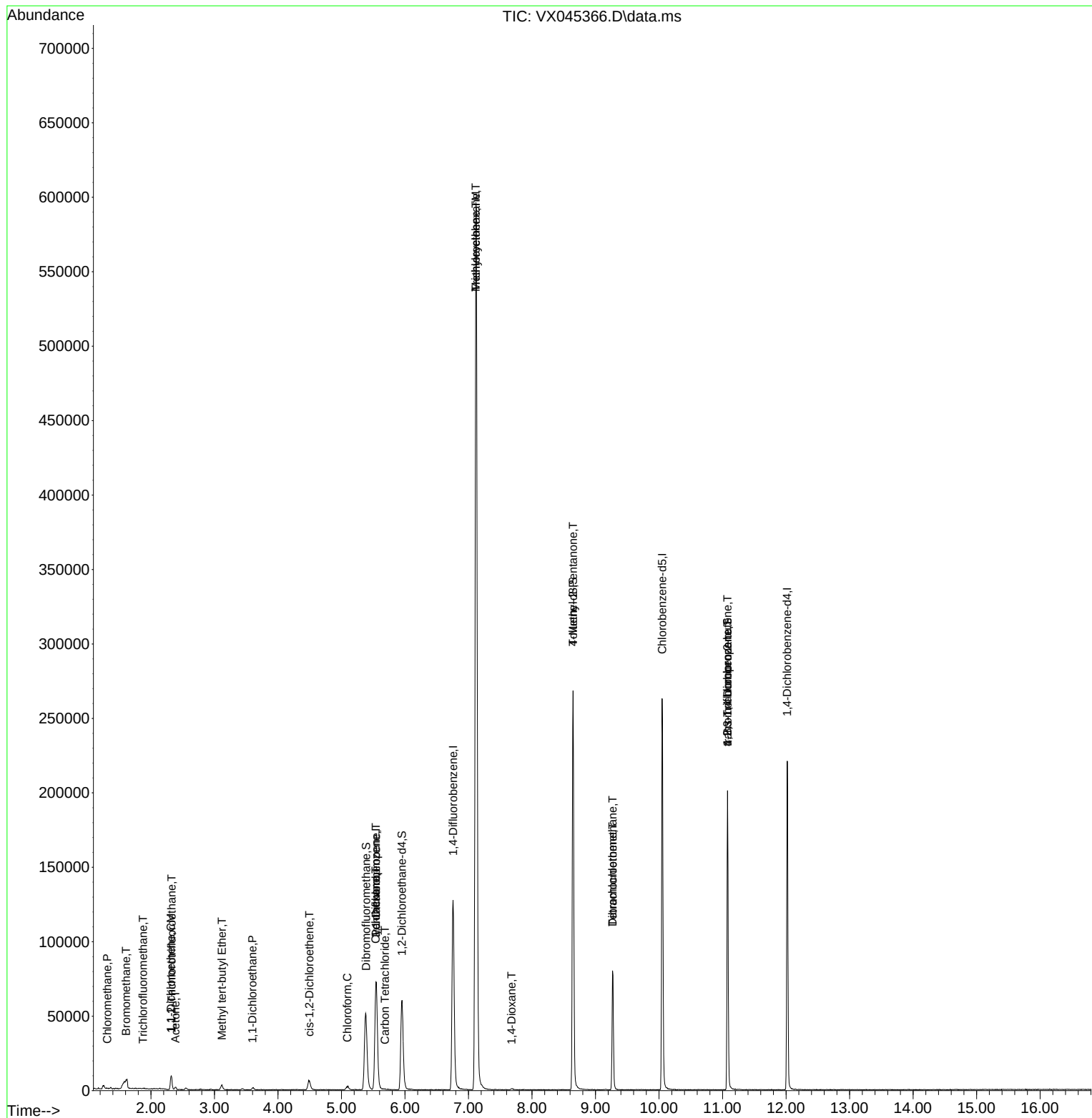
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	64486	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	126806	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	110827	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	42757	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	57787	56.337	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	112.680%	
35) Dibromofluoromethane	5.385	113	44900	52.953	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	105.900%	
50) Toluene-d8	8.647	98	156689	50.972	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	101.940%	
62) 4-Bromofluorobenzene	11.079	95	50345	49.424	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	98.840%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.313	50	341	0.343	ug/l #	43
5) Bromomethane	1.605	94	78	0.201	ug/l #	3
7) Trichlorofluoromethane	1.874	101	292	0.224	ug/l #	80
9) 1,1,2-Trichlorotrifluo...	2.325	101	2959	3.948	ug/l	98
12) 1,1-Dichloroethene	2.313	96	874	1.103	ug/l	92
16) Acetone	2.386	43	1171	2.461	ug/l #	79
19) Methyl tert-butyl Ether	3.117	73	3091	1.163	ug/l	93
24) 1,1-Dichloroethane	3.599	63	1845	1.148	ug/l #	95
27) cis-1,2-Dichloroethene	4.495	96	4096	4.239	ug/l	97
30) Chloroform	5.093	83	2813	1.761	ug/l	85
31) Cyclohexane	5.538	56	1888	1.353	ug/l #	62
36) 1,1-Dichloropropene	5.544	75	6083	5.231	ug/l #	51
38) Carbon Tetrachloride	5.684	117	261	0.221	ug/l #	57
39) Methylcyclohexane	7.117	83	3029	2.174	ug/l #	1
44) Trichloroethene	7.117	130	221917	257.381	ug/l	99
49) 1,4-Dioxane	7.678	88	681	29.043	ug/l #	96
51) 4-Methyl-2-Pentanone	8.647	43	912	0.613	ug/l #	1
60) Dibromochloromethane	9.269	129	14627	15.773	ug/l #	11
64) Tetrachloroethene	9.269	164	13870	19.541	ug/l	95
76) 1,2,3-Trichloropropane	11.079	75	28680	28.819	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	28680	98.624	ug/l #	6

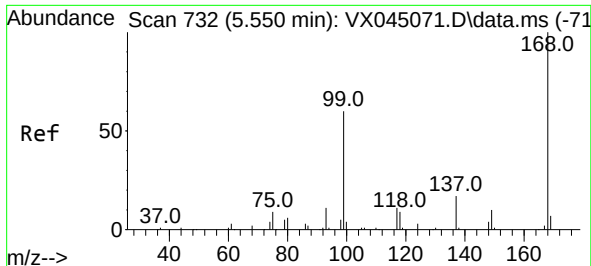
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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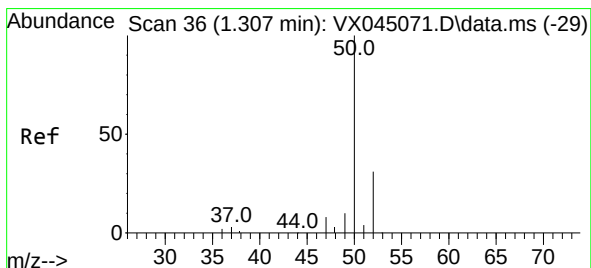
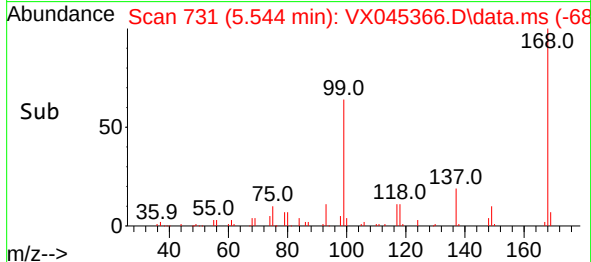
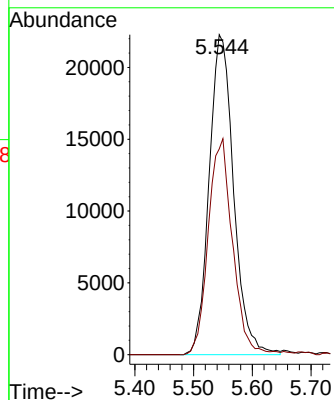
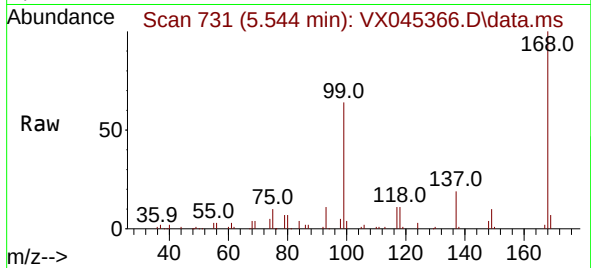




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045366.D
Acq: 20 Mar 2025 17:09

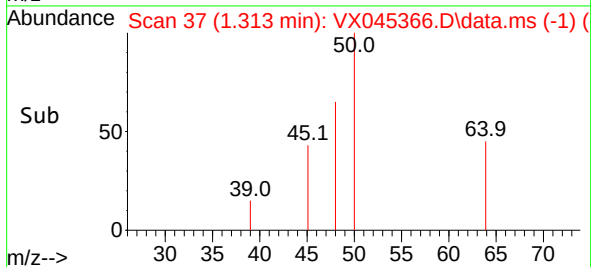
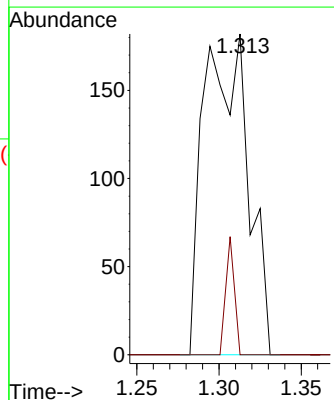
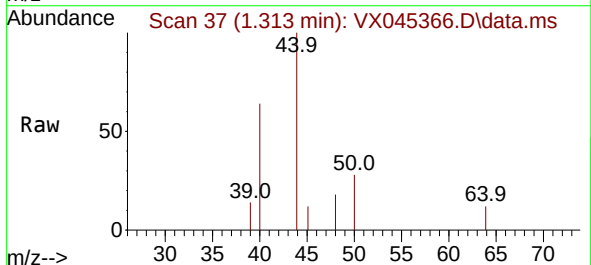
Instrument :
MSVOA_X
ClientSampleId :
RE131D1-20250313

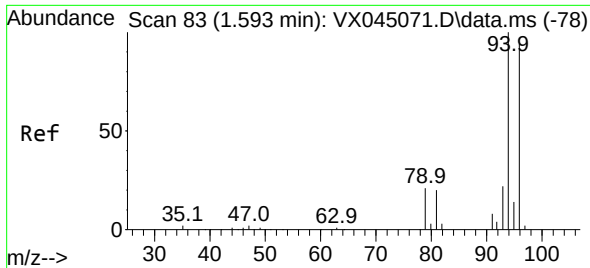
Tgt Ion:168 Resp: 64486
Ion Ratio Lower Upper
168 100
99 64.3 48.2 72.4



#3
Chloromethane
Concen: 0.343 ug/l
RT: 1.313 min Scan# 37
Delta R.T. 0.006 min
Lab File: VX045366.D
Acq: 20 Mar 2025 17:09

Tgt Ion: 50 Resp: 341
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#

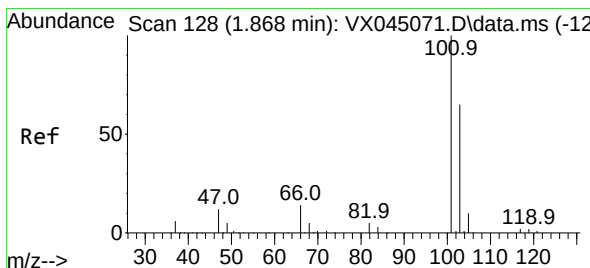
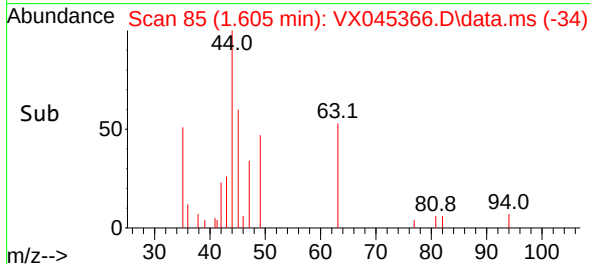
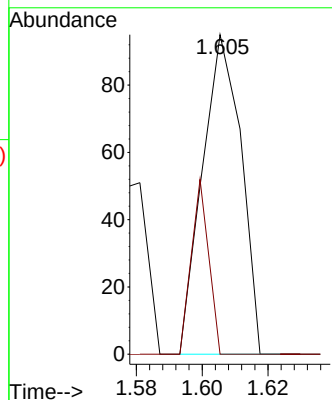
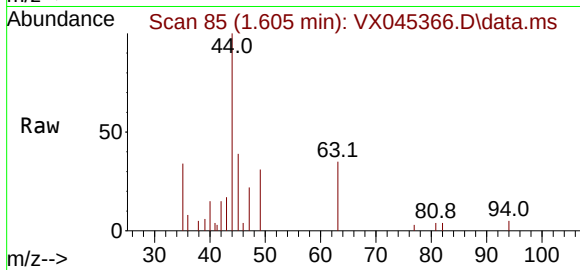




#5
Bromomethane
Concen: 0.201 ug/l
RT: 1.605 min Scan# 81
Delta R.T. 0.012 min
Lab File: VX045366.D
Acq: 20 Mar 2025 17:09

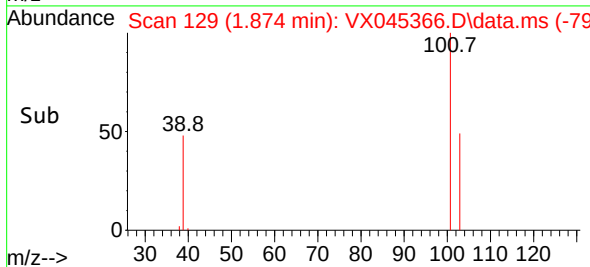
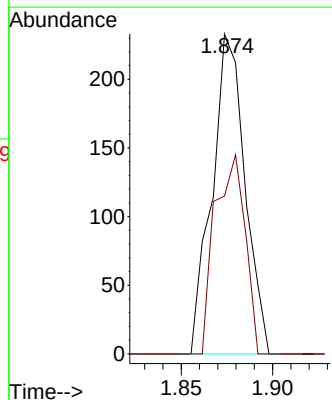
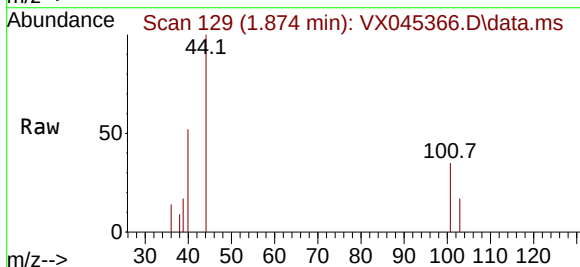
Instrument :
MSVOA_X
ClientSampleId :
RE131D1-20250313

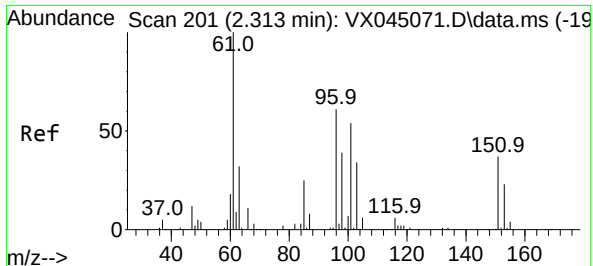
Tgt Ion: 94 Resp: 78
Ion Ratio Lower Upper
94 100
96 0.0 75.0 112.4#



#7
Trichlorofluoromethane
Concen: 0.224 ug/l
RT: 1.874 min Scan# 129
Delta R.T. 0.006 min
Lab File: VX045366.D
Acq: 20 Mar 2025 17:09

Tgt Ion:101 Resp: 292
Ion Ratio Lower Upper
101 100
103 49.4 52.1 78.1#

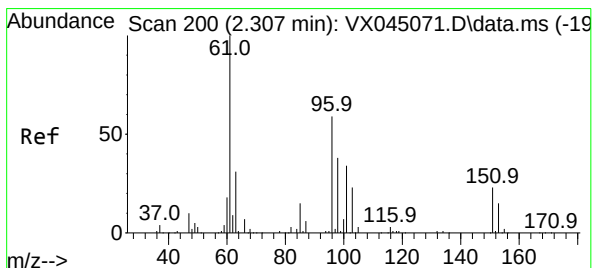
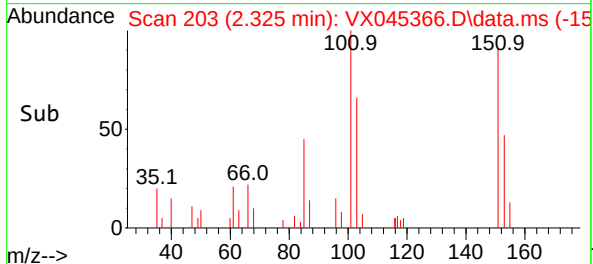
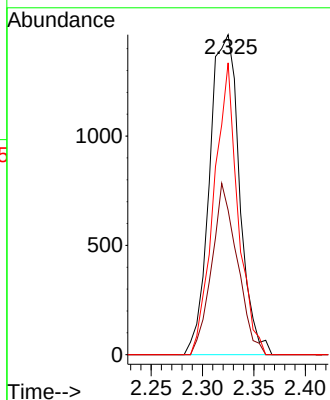
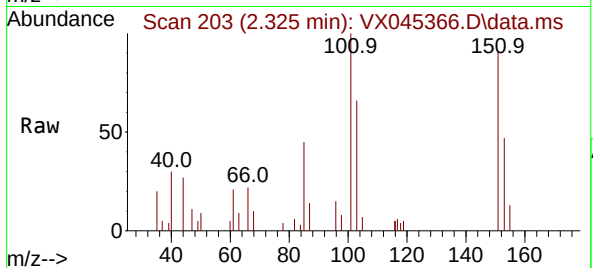




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 3.948 ug/l
 RT: 2.325 min Scan# 20
 Delta R.T. 0.012 min
 Lab File: VX045366.D
 Acq: 20 Mar 2025 17:09

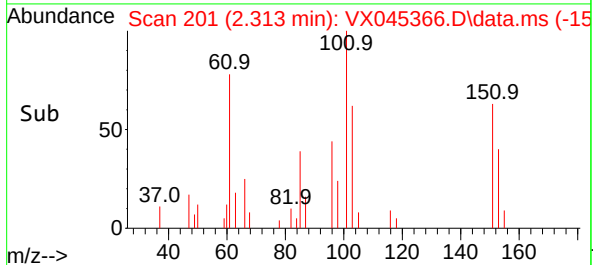
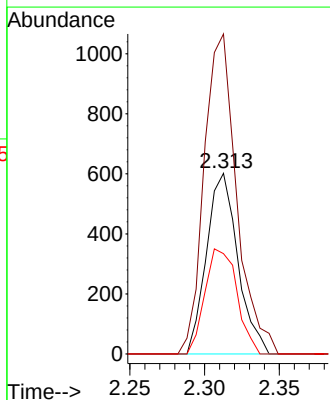
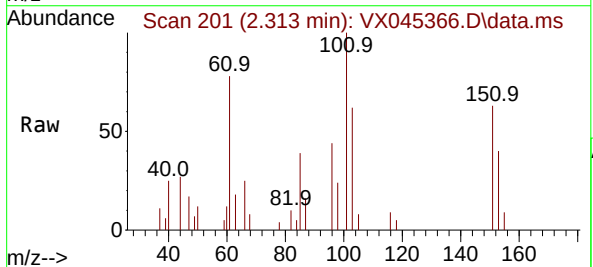
Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D1-20250313

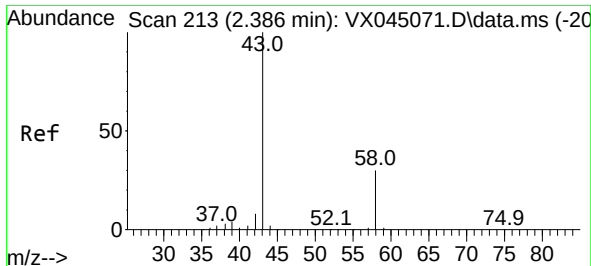
Tgt Ion:101 Resp: 2959
 Ion Ratio Lower Upper
 101 100
 85 45.7 36.2 54.4
 151 73.3 56.4 84.6



#12
 1,1-Dichloroethene
 Concen: 1.103 ug/l
 RT: 2.313 min Scan# 201
 Delta R.T. 0.006 min
 Lab File: VX045366.D
 Acq: 20 Mar 2025 17:09

Tgt Ion: 96 Resp: 874
 Ion Ratio Lower Upper
 96 100
 61 177.1 134.6 202.0
 98 55.5 51.0 76.6

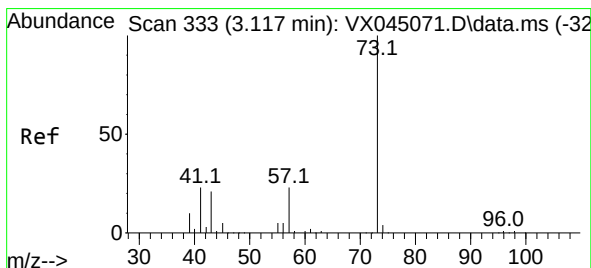
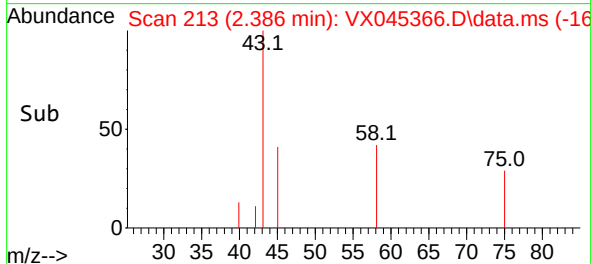
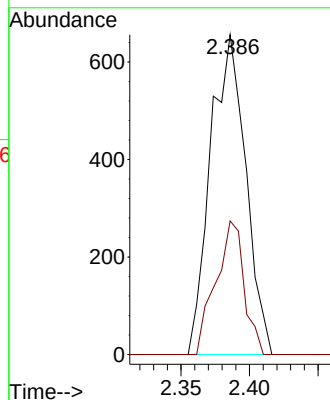
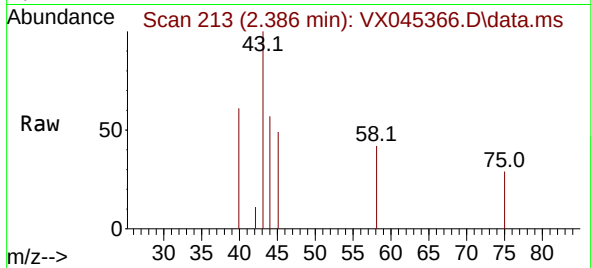




#16
Acetone
Concen: 2.461 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045366.D
Acq: 20 Mar 2025 17:09

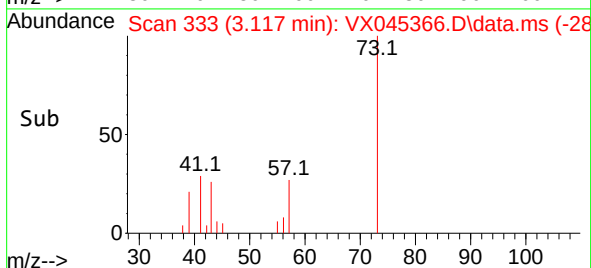
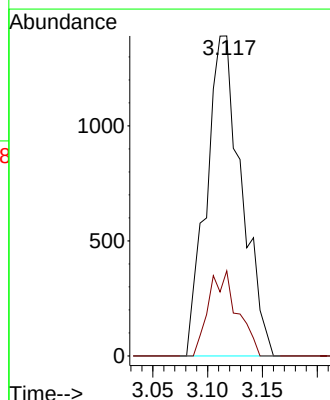
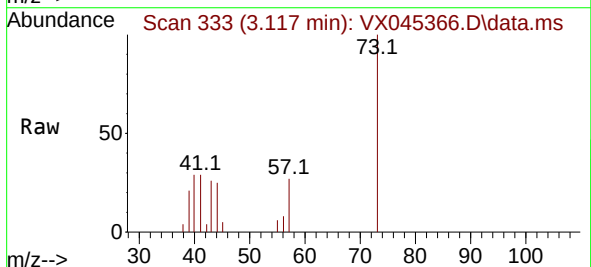
Instrument :
MSVOA_X
ClientSampleId :
RE131D1-20250313

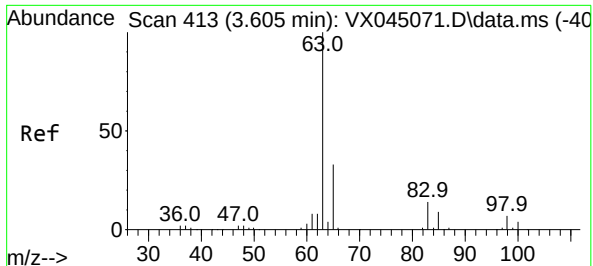
Tgt Ion: 43 Resp: 1171
Ion Ratio Lower Upper
43 100
58 41.8 24.2 36.4#



#19
Methyl tert-butyl Ether
Concen: 1.163 ug/l
RT: 3.117 min Scan# 333
Delta R.T. 0.000 min
Lab File: VX045366.D
Acq: 20 Mar 2025 17:09

Tgt Ion: 73 Resp: 3091
Ion Ratio Lower Upper
73 100
57 26.6 18.5 27.7

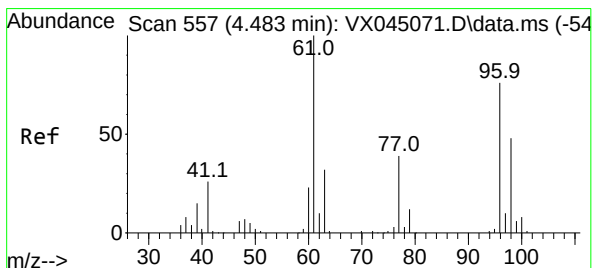
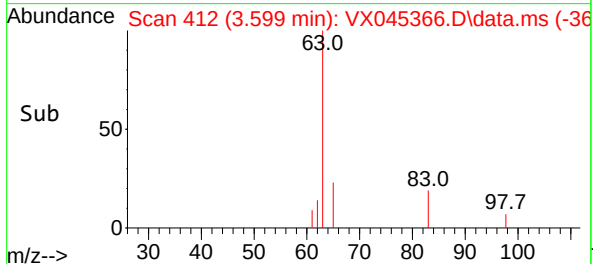
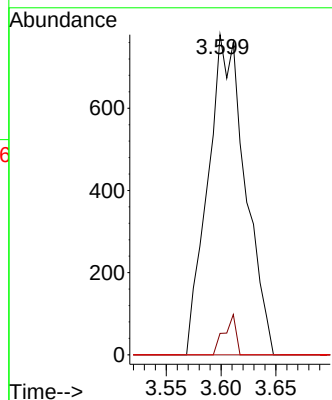
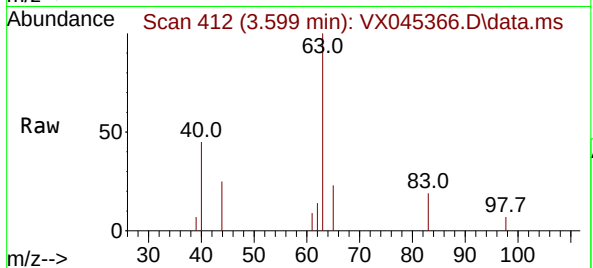




#24
 1,1-Dichloroethane
 Concen: 1.148 ug/l
 RT: 3.599 min Scan# 413
 Delta R.T. -0.006 min
 Lab File: VX045366.D
 Acq: 20 Mar 2025 17:09

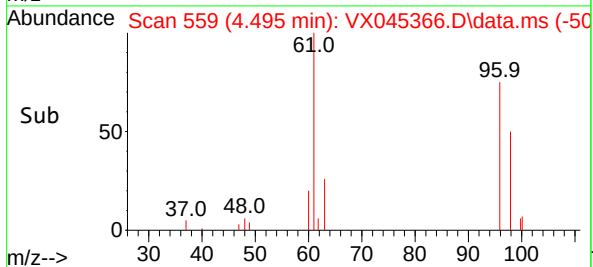
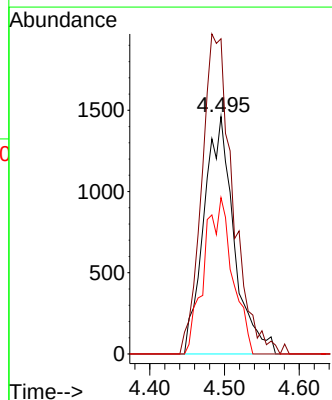
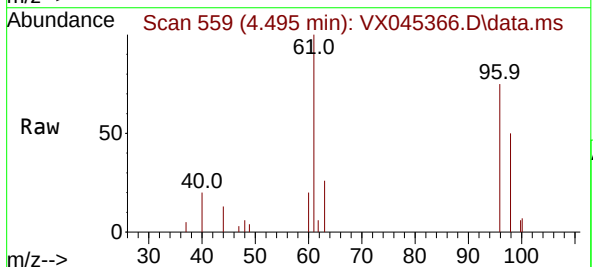
Instrument :
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 ClientSampleId :
 RE131D1-20250313

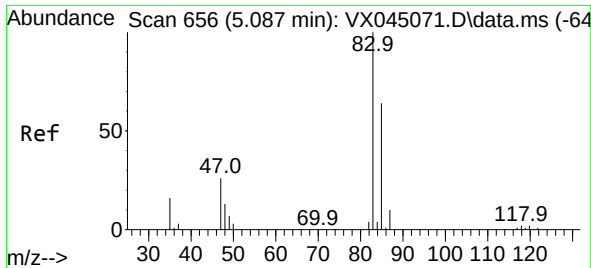
Tgt Ion: 63 Resp: 1845
 Ion Ratio Lower Upper
 63 100
 98 6.7 3.4 10.2
 100 0.0 2.1 6.5#



#27
 cis-1,2-Dichloroethene
 Concen: 4.239 ug/l
 RT: 4.495 min Scan# 559
 Delta R.T. 0.012 min
 Lab File: VX045366.D
 Acq: 20 Mar 2025 17:09

Tgt Ion: 96 Resp: 4096
 Ion Ratio Lower Upper
 96 100
 61 138.5 0.0 283.2
 98 62.0 0.0 128.0

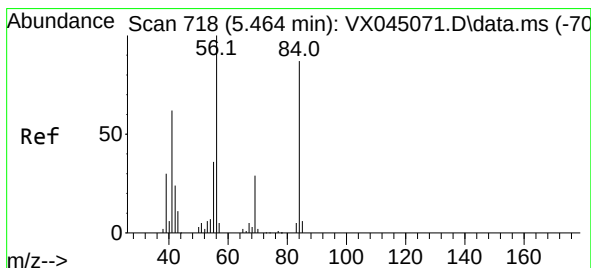
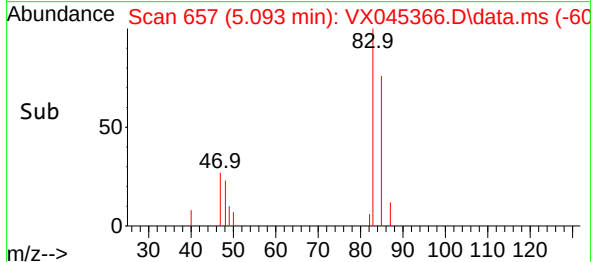
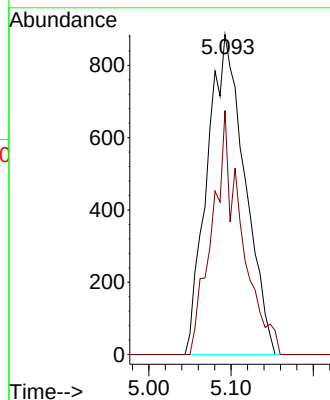
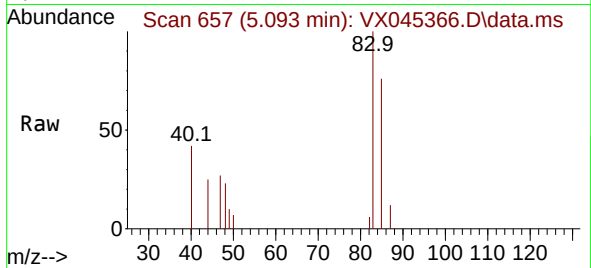




#30
Chloroform
Concen: 1.761 ug/l
RT: 5.093 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX045366.D
Acq: 20 Mar 2025 17:09

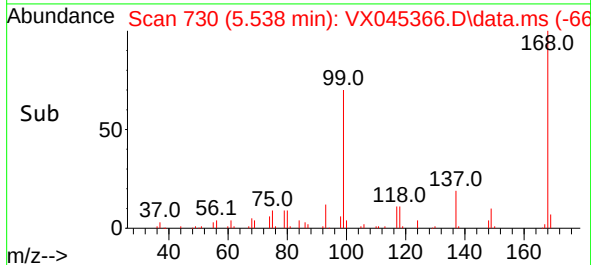
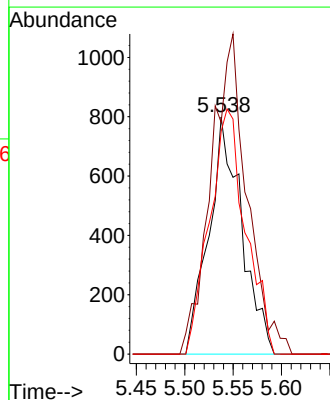
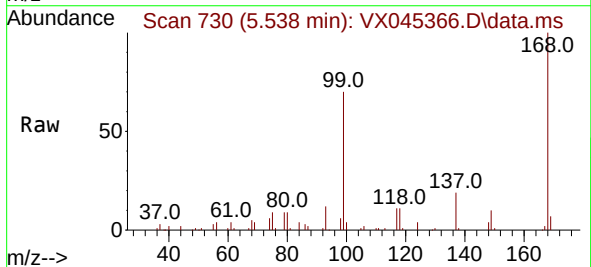
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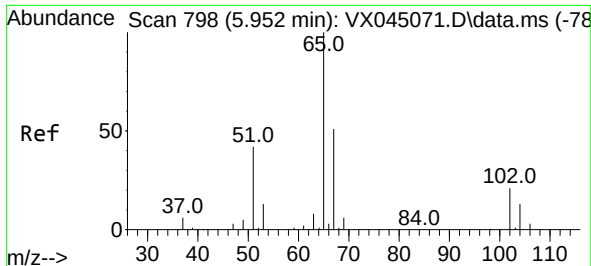
Tgt Ion: 83 Resp: 2813
Ion Ratio Lower Upper
83 100
85 76.3 51.4 77.2



#31
Cyclohexane
Concen: 1.353 ug/l
RT: 5.538 min Scan# 730
Delta R.T. 0.073 min
Lab File: VX045366.D
Acq: 20 Mar 2025 17:09

Tgt Ion: 56 Resp: 1888
Ion Ratio Lower Upper
56 100
69 97.7 23.4 35.2#
84 94.0 69.4 104.2





#33

1,2-Dichloroethane-d4

Concen: 56.337 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045366.D

Acq: 20 Mar 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

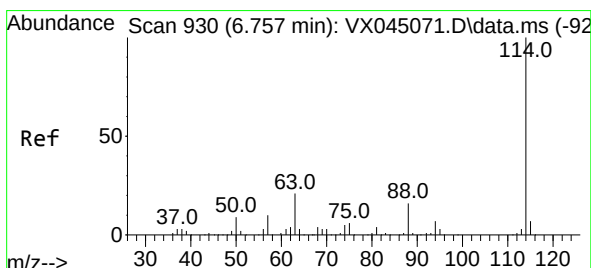
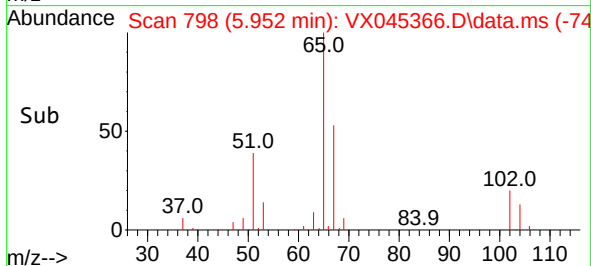
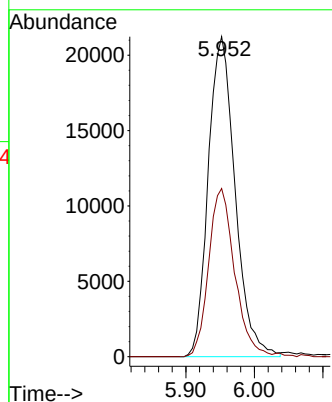
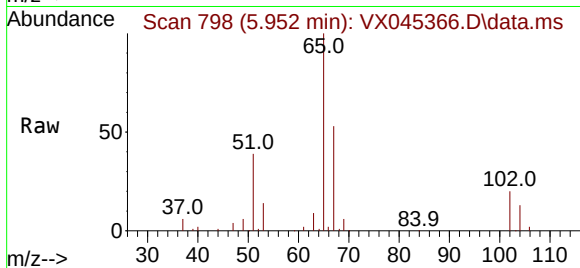
RE131D1-20250313

Tgt Ion: 65 Resp: 57787

Ion Ratio Lower Upper

65 100

67 51.2 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: VX045366.D

Acq: 20 Mar 2025 17:09

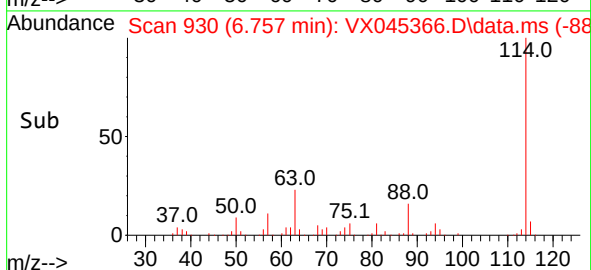
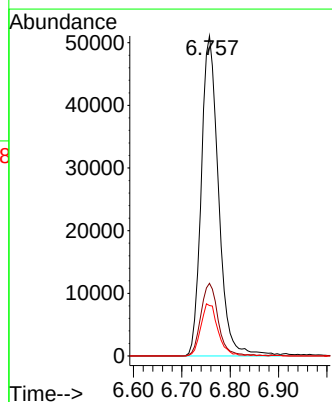
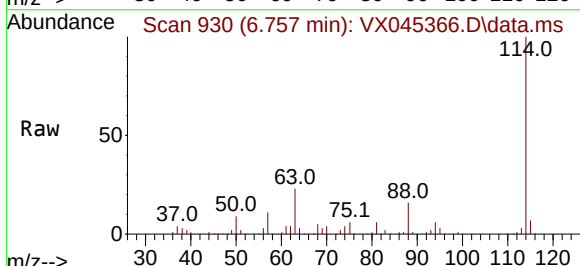
Tgt Ion: 114 Resp: 126806

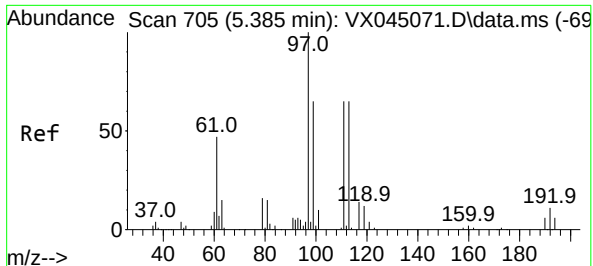
Ion Ratio Lower Upper

114 100

63 22.7 0.0 41.8

88 15.8 0.0 32.8





#35

Dibromofluoromethane

Concen: 52.953 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX045366.D

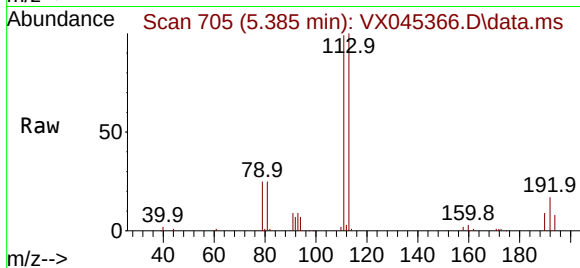
Acq: 20 Mar 2025 17:09

Instrument :

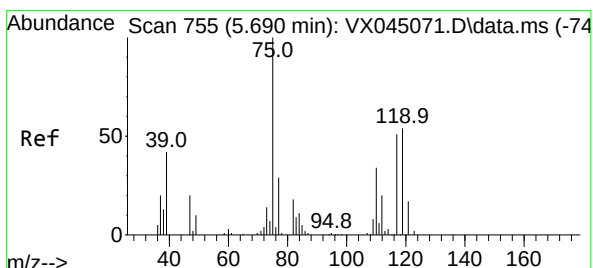
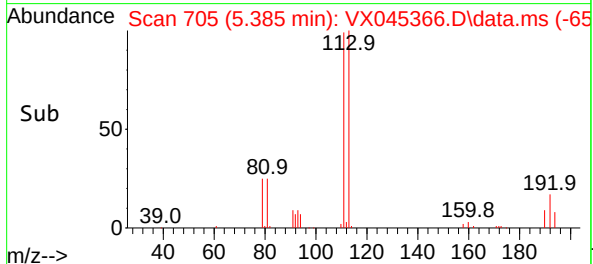
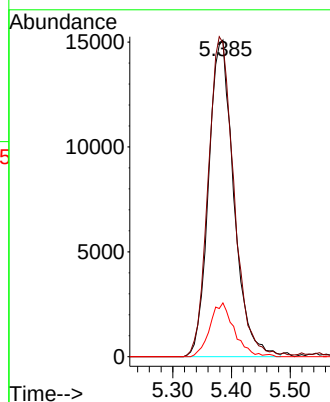
MSVOA_X

ClientSampleId :

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Tgt Ion:	113	Resp:	44900
Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.8	122.6
192	16.5	14.3	21.5



#36

1,1-Dichloropropene

Concen: 5.231 ug/l

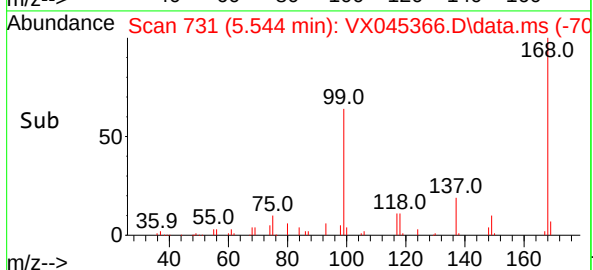
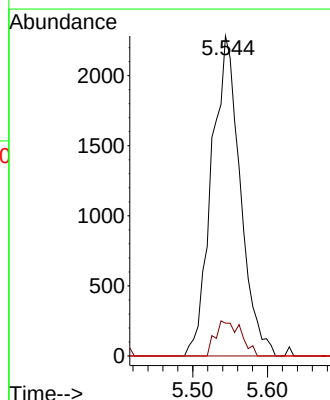
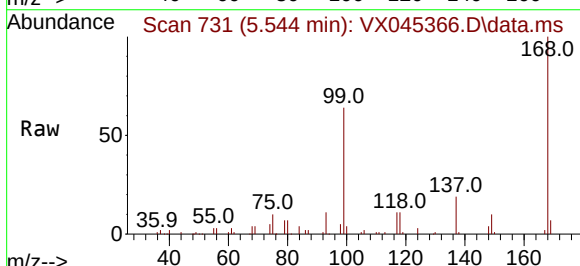
RT: 5.544 min Scan# 731

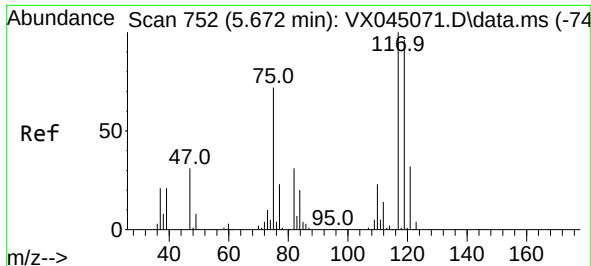
Delta R.T. -0.146 min

Lab File: VX045366.D

Acq: 20 Mar 2025 17:09

Tgt Ion:	75	Resp:	6083
Ion	Ratio	Lower	Upper
75	100		
110	9.8	16.9	50.6#
77	0.0	24.5	36.7#

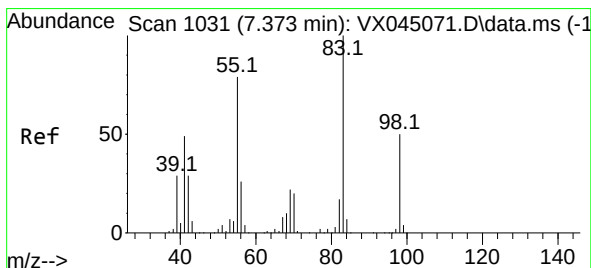
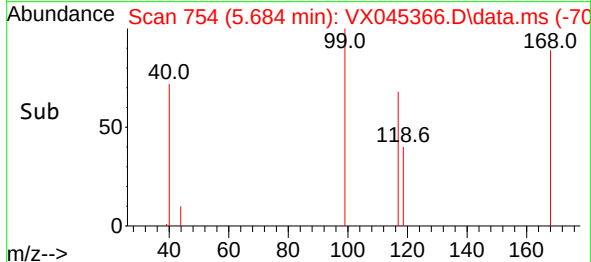
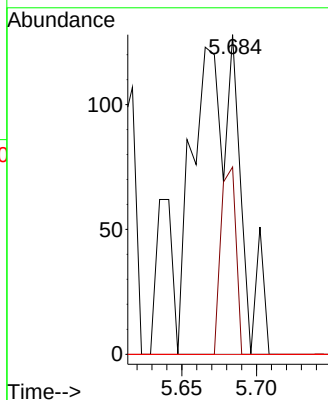
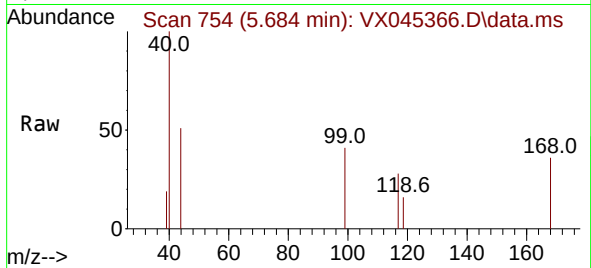




#38
Carbon Tetrachloride
Concen: 0.221 ug/l
RT: 5.684 min Scan# 71
Delta R.T. 0.012 min
Lab File: VX045366.D
Acq: 20 Mar 2025 17:09

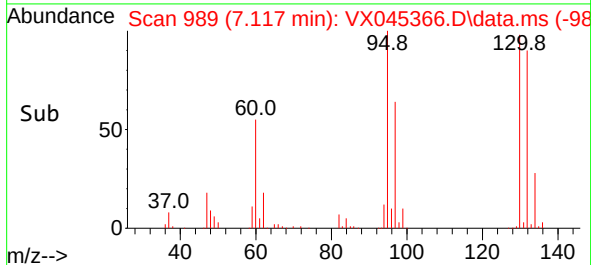
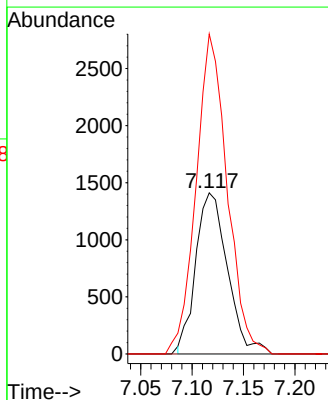
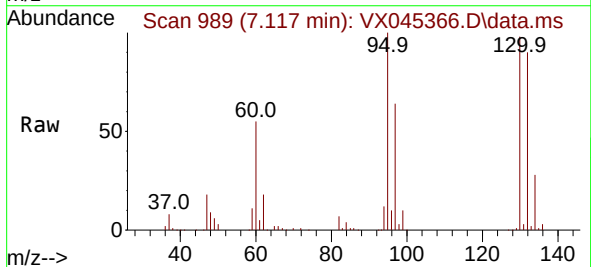
Instrument :
MSVOA_X
ClientSampleId :
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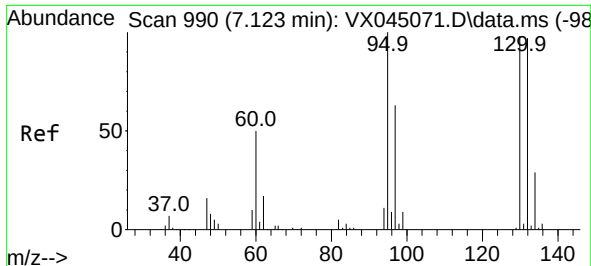
Tgt Ion:117 Resp: 261
Ion Ratio Lower Upper
117 100
119 58.6 76.7 115.1#
121 0.0 25.5 38.3#



#39
Methylcyclohexane
Concen: 2.174 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.256 min
Lab File: VX045366.D
Acq: 20 Mar 2025 17:09

Tgt Ion: 83 Resp: 3029
Ion Ratio Lower Upper
83 100
55 0.0 63.0 94.4#
98 198.7 39.7 59.5#

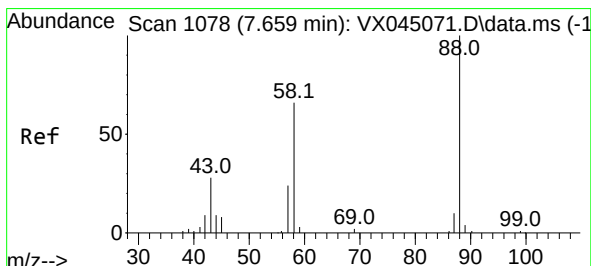
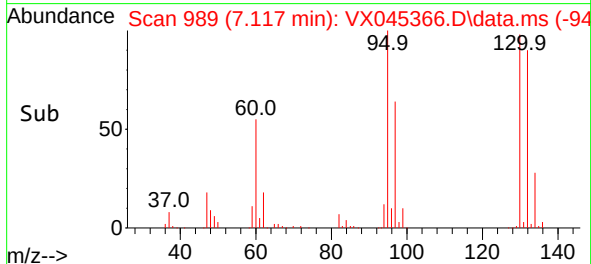
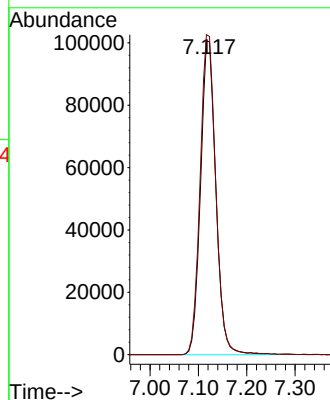
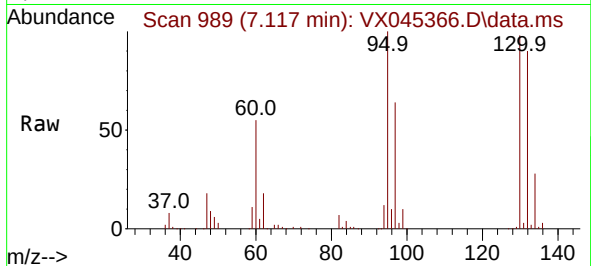




#44
Trichloroethene
Concen: 257.381 ug/l
RT: 7.117 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX045366.D
Acq: 20 Mar 2025 17:09

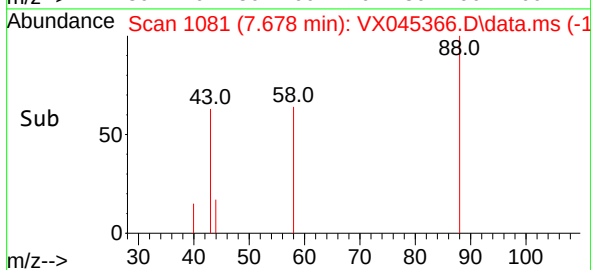
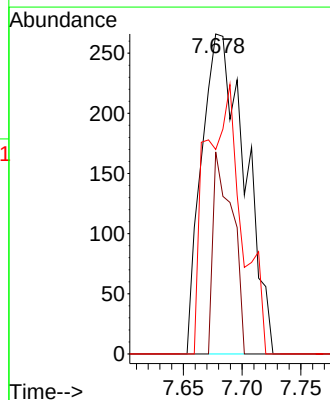
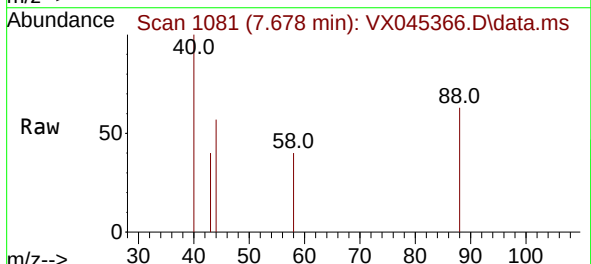
Instrument :
MSVOA_X
ClientSampleId :
RE131D1-20250313

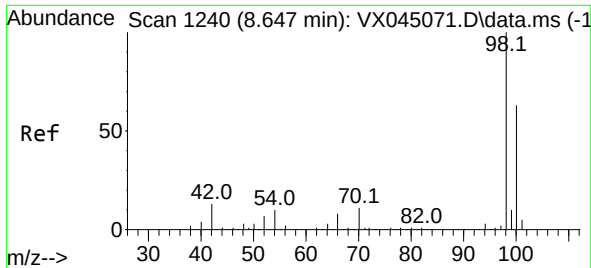
Tgt Ion:130 Resp: 221917
Ion Ratio Lower Upper
130 100
95 101.9 0.0 205.0



#49
1,4-Dioxane
Concen: 29.043 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. 0.018 min
Lab File: VX045366.D
Acq: 20 Mar 2025 17:09

Tgt Ion: 88 Resp: 681
Ion Ratio Lower Upper
88 100
43 28.5 28.7 43.1#
58 69.9 55.8 83.8

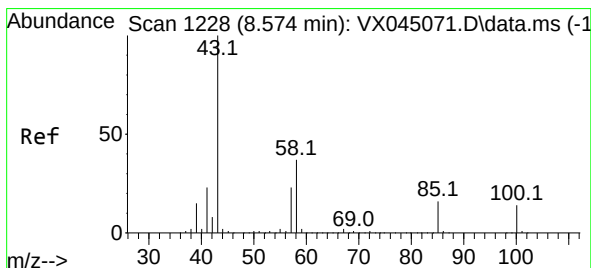
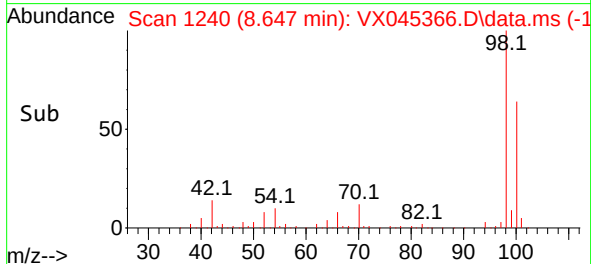
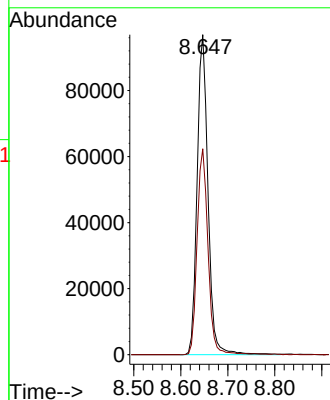
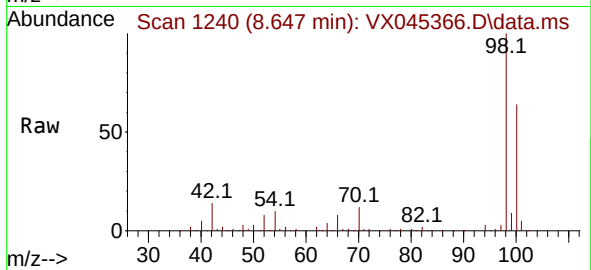




#50
Toluene-d8
Concen: 50.972 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045366.D
Acq: 20 Mar 2025 17:09

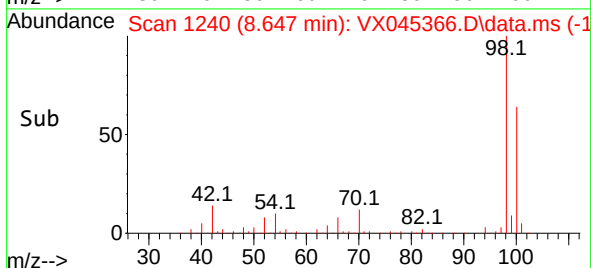
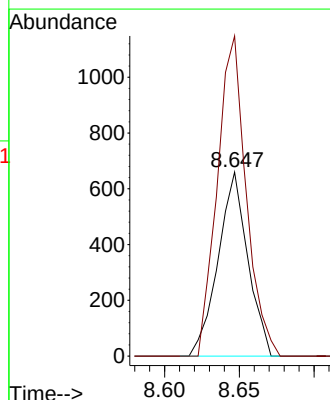
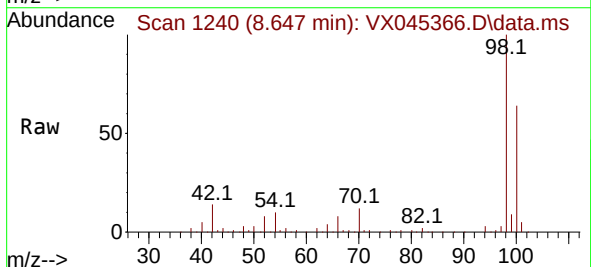
Instrument :
MSVOA_X
ClientSampleId :
RE131D1-20250313

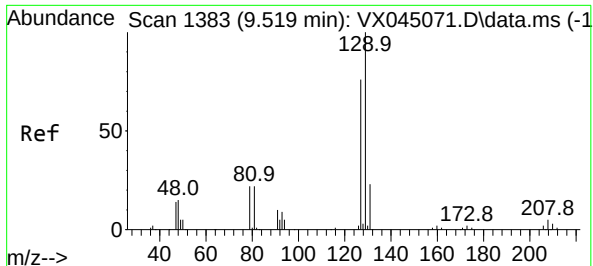
Tgt Ion: 98 Resp: 156689
Ion Ratio Lower Upper
98 100
100 64.2 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.613 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.073 min
Lab File: VX045366.D
Acq: 20 Mar 2025 17:09

Tgt Ion: 43 Resp: 912
Ion Ratio Lower Upper
43 100
58 169.1 29.2 43.8#

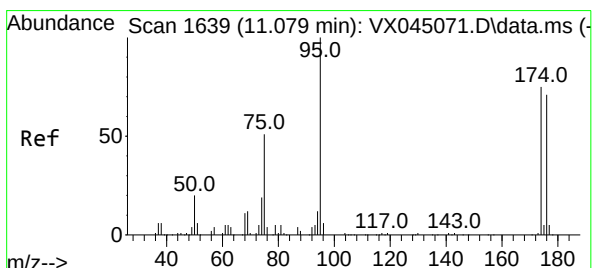
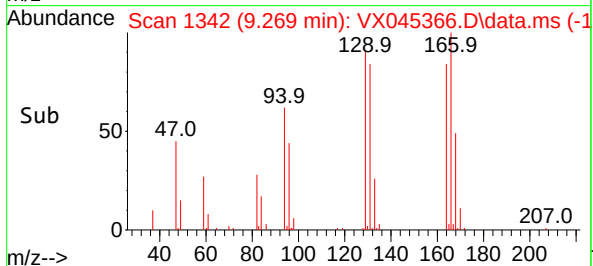
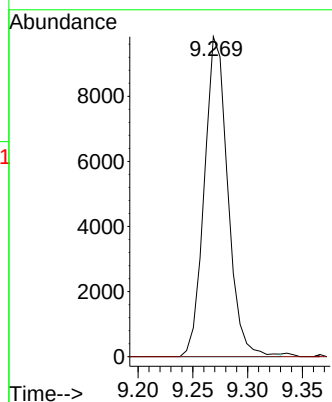
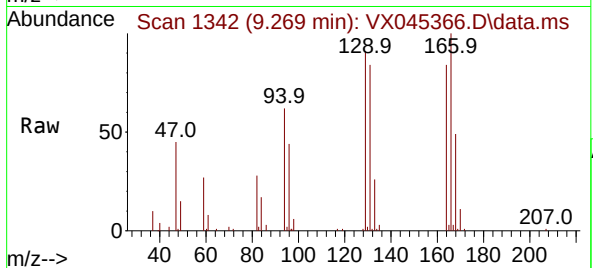




#60
Dibromochloromethane
Concen: 15.773 ug/l
RT: 9.269 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX045366.D
Acq: 20 Mar 2025 17:09

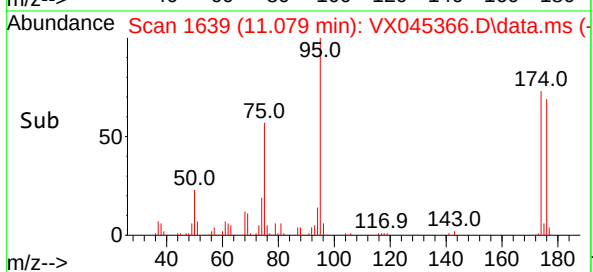
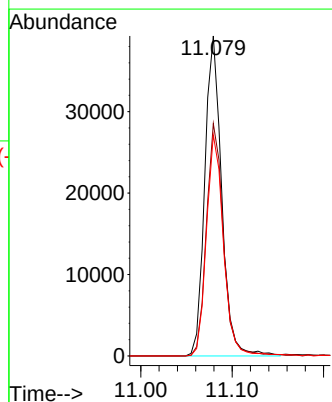
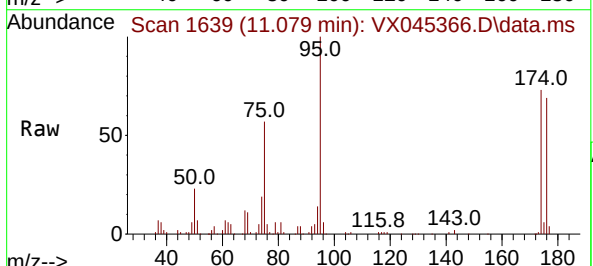
Instrument :
MSVOA_X
ClientSampleId :
RE131D1-20250313

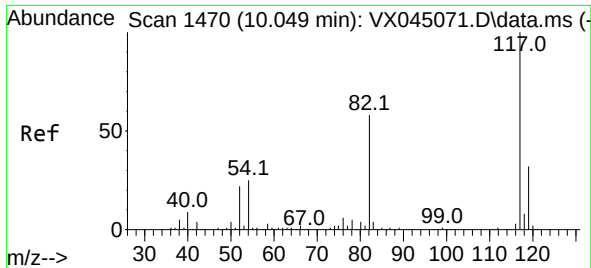
Tgt Ion:129 Resp: 14627
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#



#62
4-Bromofluorobenzene
Concen: 49.424 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045366.D
Acq: 20 Mar 2025 17:09

Tgt Ion: 95 Resp: 50345
Ion Ratio Lower Upper
95 100
174 73.3 0.0 148.2
176 70.0 0.0 141.4

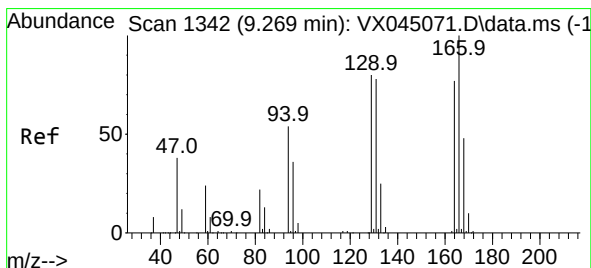
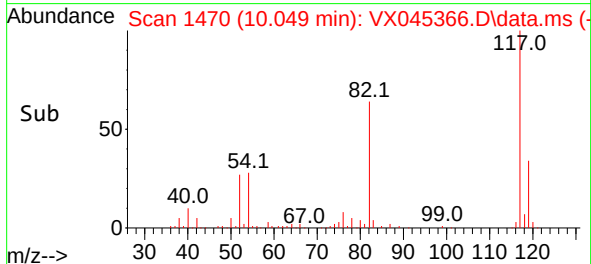
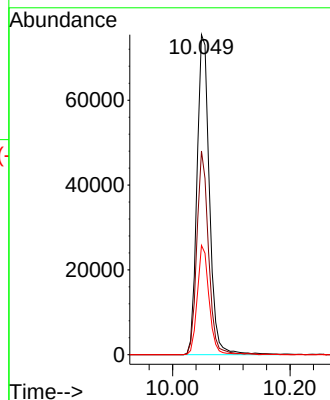
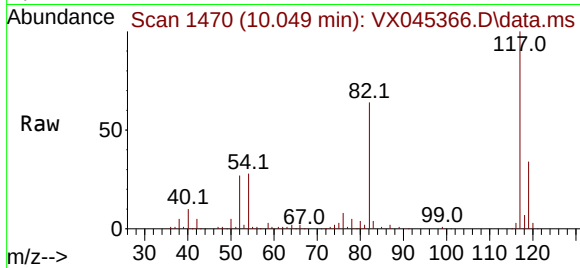




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045366.D
Acq: 20 Mar 2025 17:09

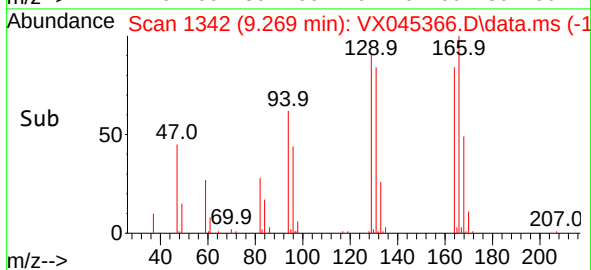
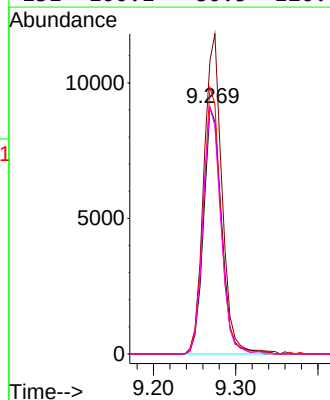
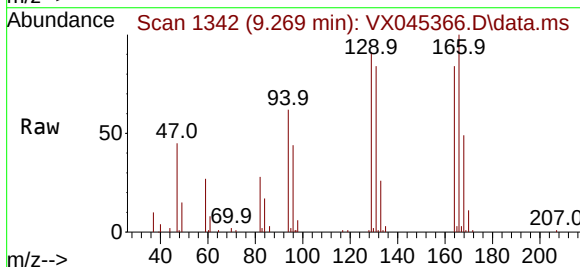
Instrument :
MSVOA_X
ClientSampleId :
RE131D1-20250313

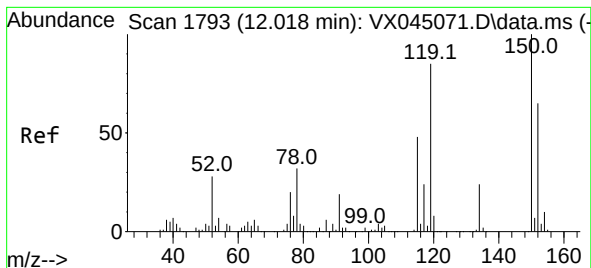
Tgt Ion:117	Resp:	110827
Ion	Ratio	Lower Upper
117	100	
82	63.6	46.3 69.5
119	34.2	25.7 38.5



#64
Tetrachloroethene
Concen: 19.541 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX045366.D
Acq: 20 Mar 2025 17:09

Tgt Ion:164	Resp:	13870
Ion	Ratio	Lower Upper
164	100	
166	119.1	103.6 155.4
129	108.2	82.7 124.1
131	100.1	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: VX045366.D

Acq: 20 Mar 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

RE131D1-20250313

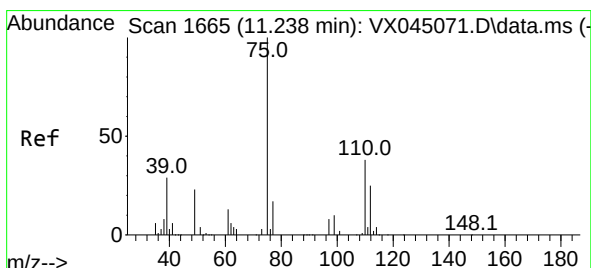
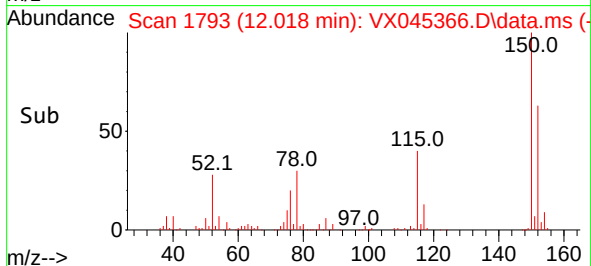
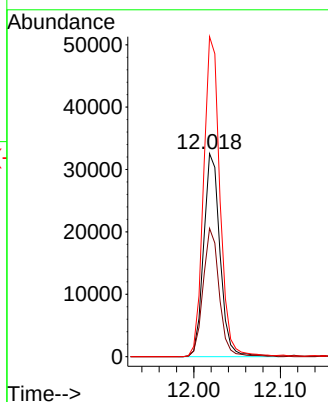
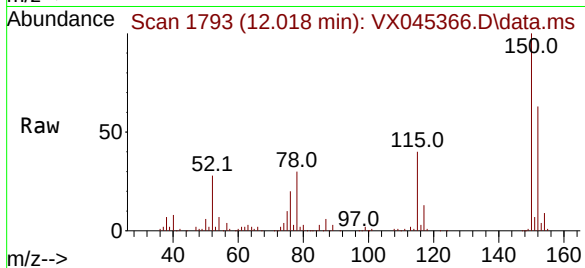
Tgt Ion:152 Resp: 42757

Ion Ratio Lower Upper

152 100

115 62.1 44.2 132.6

150 157.4 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 28.819 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX045366.D

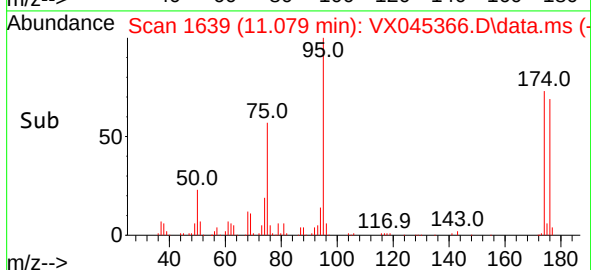
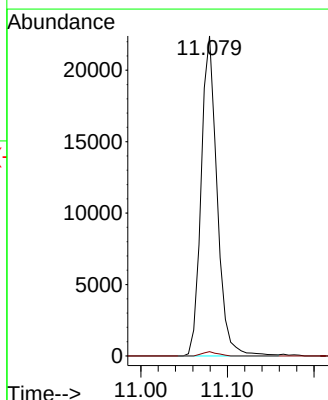
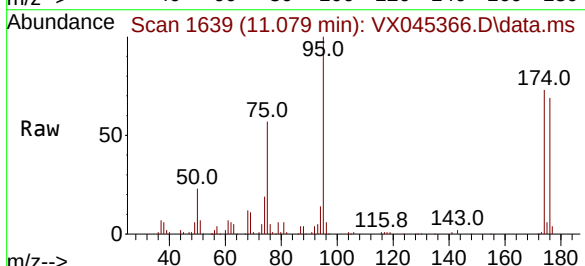
Acq: 20 Mar 2025 17:09

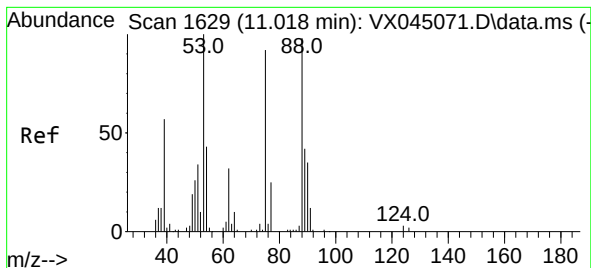
Tgt Ion: 75 Resp: 28680

Ion Ratio Lower Upper

75 100

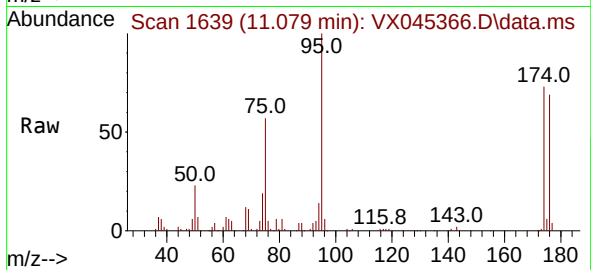
77 1.3 20.7 62.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 98.624 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX045366.D
 Acq: 20 Mar 2025 17:09

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D1-20250313



Tgt Ion: 75 Resp: 28680
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.5 132.7#
 89 0.1 36.2 54.4#

