

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031825\
 Data File : VX045332.D
 Acq On : 18 Mar 2025 17:57
 Operator : JC/MD
 Sample : Q1559-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP03-20250310

Quant Time: Mar 19 01:48:26 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)

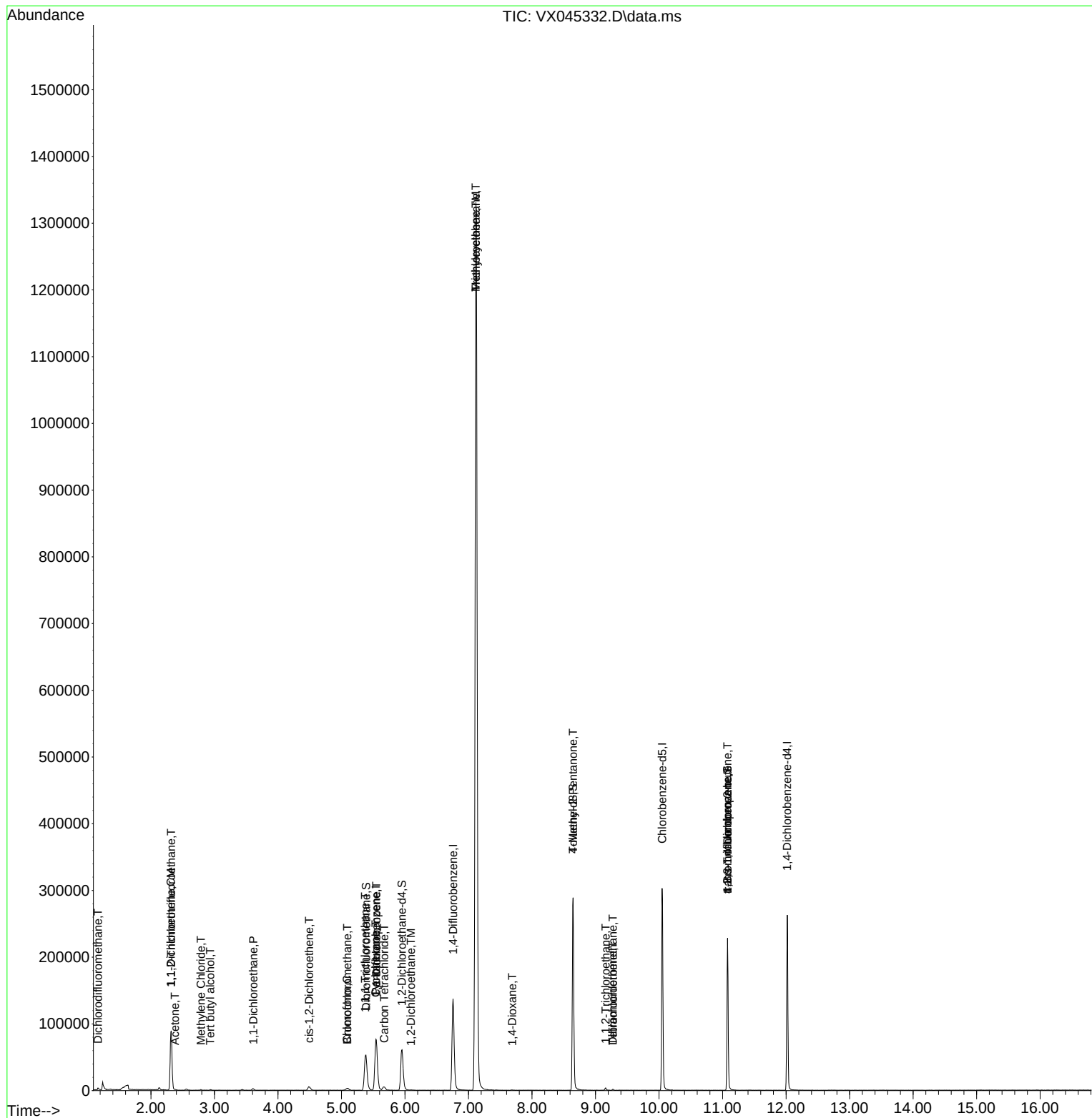
Internal Standards						
1) Pentafluorobenzene	5.544	168	68641	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	133905	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	125891	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51700	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	60083	55.029	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.060%			
35) Dibromofluoromethane	5.385	113	46827	52.298	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.600%			
50) Toluene-d8	8.647	98	167939	51.736	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.480%			
62) 4-Bromofluorobenzene	11.079	95	59923	55.708	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 111.420%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	1736	2.009	ug/l	71
9) 1,1,2-Trichlorotrifluo...	2.319	101	26032	32.631	ug/l	98
11) Tert butyl alcohol	2.934	59	270	1.306	ug/l #	73
12) 1,1-Dichloroethene	2.313	96	10530	12.484	ug/l	99
16) Acetone	2.380	43	1173	2.316	ug/l #	78
20) Methylene Chloride	2.788	84	293	0.292	ug/l	86
24) 1,1-Dichloroethane	3.611	63	2852	1.667	ug/l #	93
27) cis-1,2-Dichloroethene	4.489	96	3449	3.353	ug/l	93
28) Bromochloromethane	5.093	49	211	0.259	ug/l #	17
30) Chloroform	5.087	83	3630	2.135	ug/l	92
31) Cyclohexane	5.538	56	1822	1.227	ug/l #	25
32) 1,1,1-Trichloroethane	5.373	97	1214	0.884	ug/l #	48
36) 1,1-Dichloropropene	5.550	75	6585	5.363	ug/l #	49
38) Carbon Tetrachloride	5.672	117	4432	3.555	ug/l #	88
39) Methylcyclohexane	7.117	83	6484	4.407	ug/l #	1
42) 1,2-Dichloroethane	6.092	62	584	0.418	ug/l #	75
44) Trichloroethene	7.117	130	491693	540.037	ug/l	95
49) 1,4-Dioxane	7.690	88	348	14.055	ug/l #	30
51) 4-Methyl-2-Pentanone	8.647	43	932	0.593	ug/l #	1
55) 1,1,2-Trichloroethane	9.159	97	1101	1.176	ug/l	93
60) Dibromochloromethane	9.275	129	253	0.258	ug/l #	11
64) Tetrachloroethene	9.275	164	238	0.295	ug/l #	58
76) 1,2,3-Trichloropropane	11.079	75	33455	27.802	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	33455	95.144	ug/l #	6

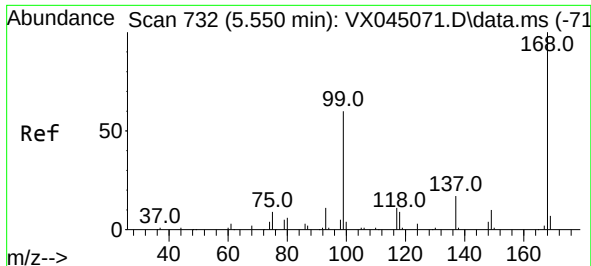
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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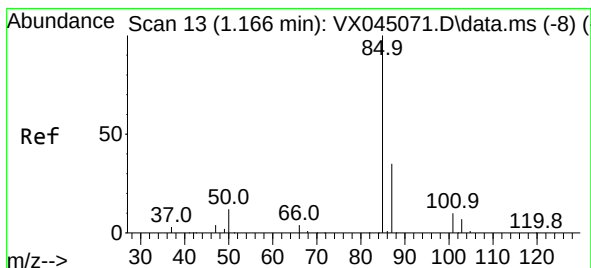
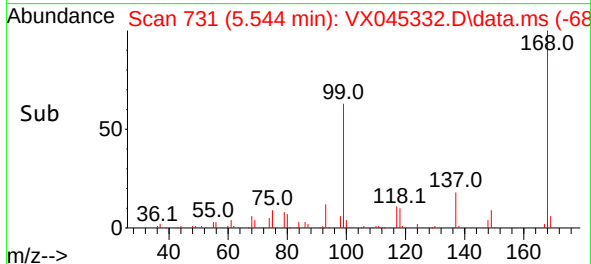
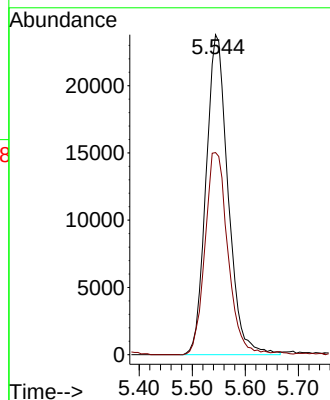
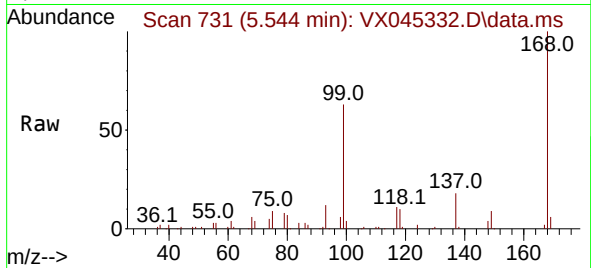




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

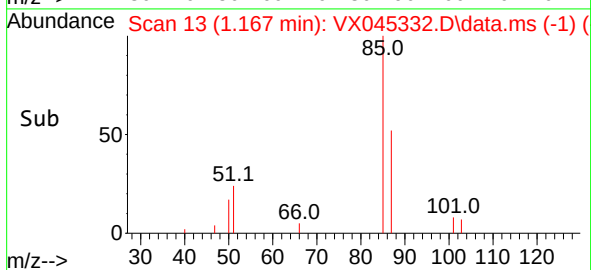
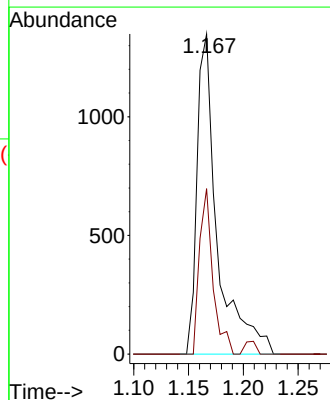
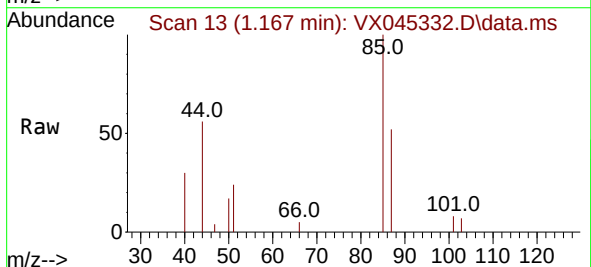
Instrument :
MSVOA_X
ClientSampleId :
DUP03-20250310

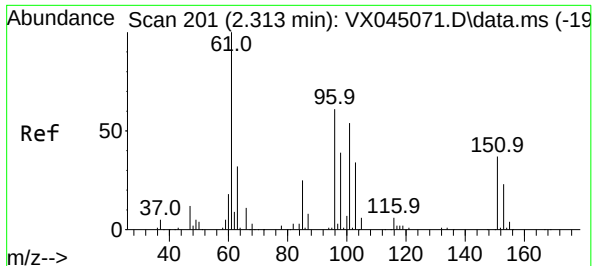
Tgt Ion:168 Resp: 68641
Ion Ratio Lower Upper
168 100
99 63.2 48.2 72.4



#2
Dichlorodifluoromethane
Concen: 2.009 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

Tgt Ion: 85 Resp: 1736
Ion Ratio Lower Upper
85 100
87 51.7 17.4 52.3

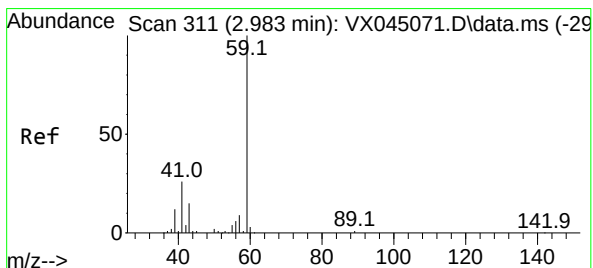
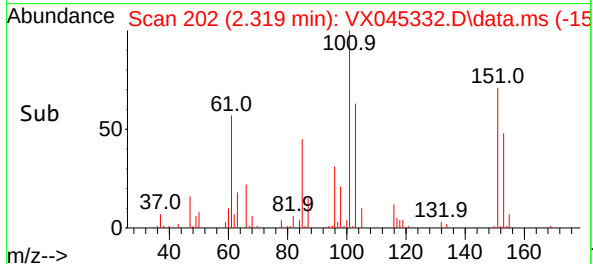
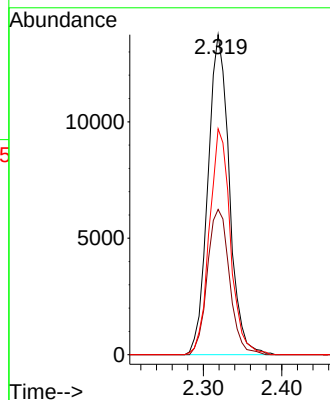
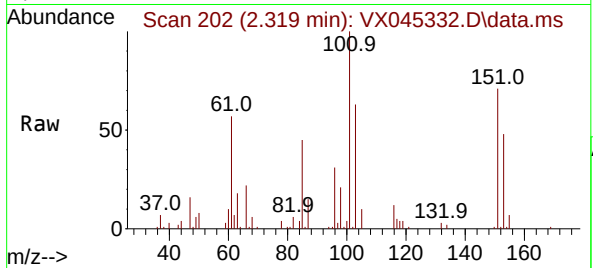




#9
1,1,2-Trichlorotrifluoroethane
Concen: 32.631 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

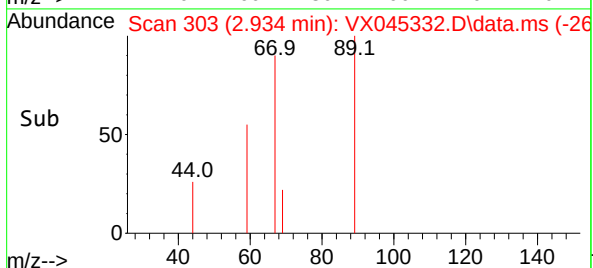
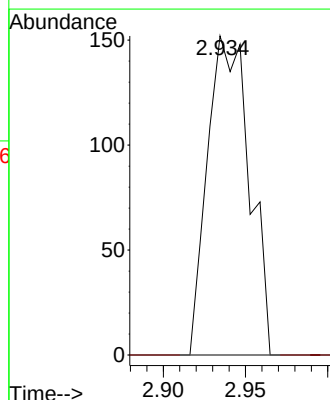
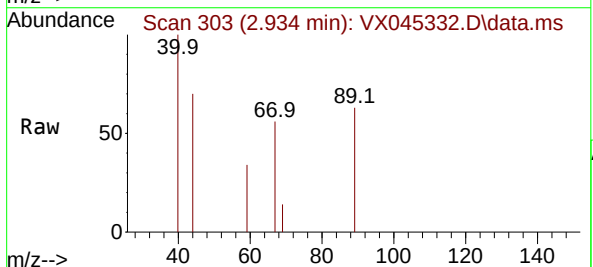
Instrument :
MSVOA_X
ClientSampleId :
DUP03-20250310

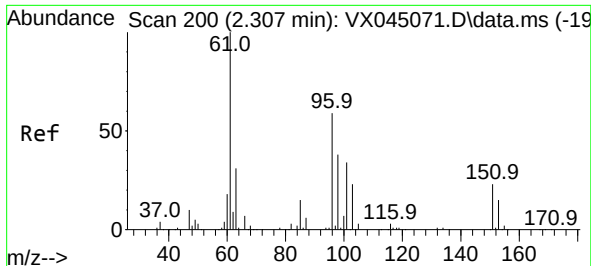
Tgt Ion:101 Resp: 26032
Ion Ratio Lower Upper
101 100
85 47.0 36.2 54.4
151 69.4 56.4 84.6



#11
Tert butyl alcohol
Concen: 1.306 ug/l
RT: 2.934 min Scan# 303
Delta R.T. -0.049 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

Tgt Ion: 59 Resp: 270
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

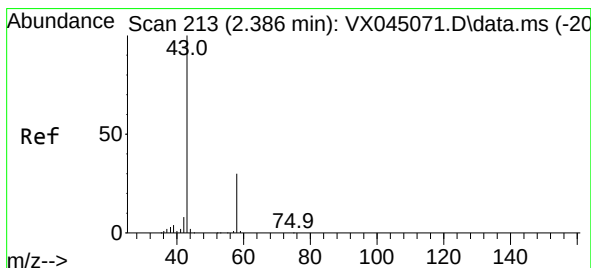
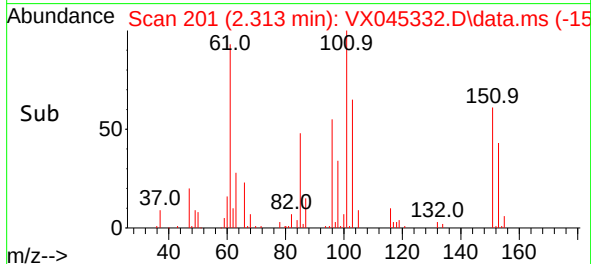
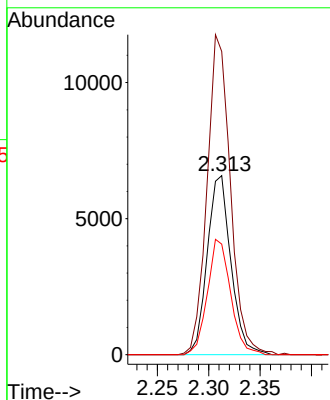
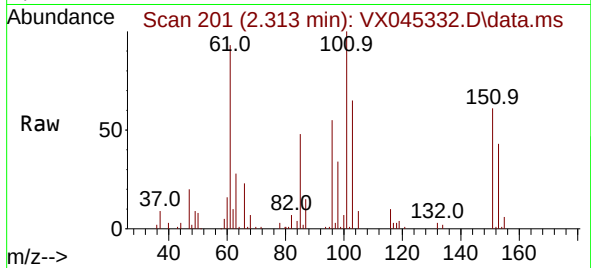




#12
1,1-Dichloroethene
Concen: 12.484 ug/l
RT: 2.313 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

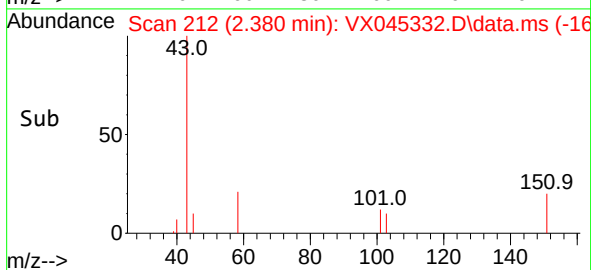
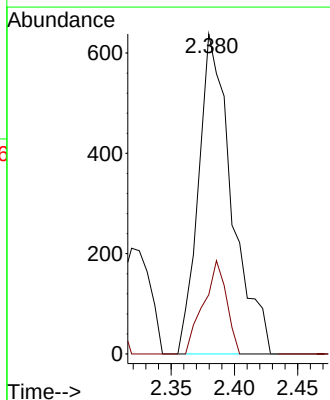
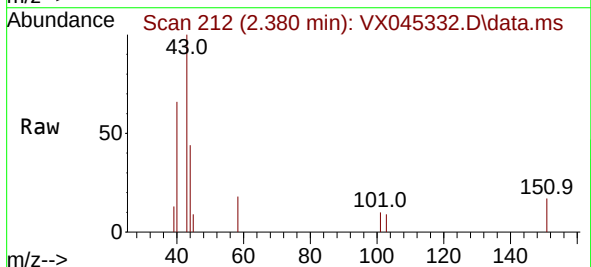
Instrument :
MSVOA_X
ClientSampleId :
DUP03-20250310

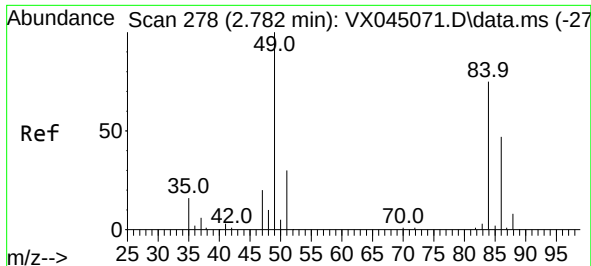
Tgt Ion: 96 Resp: 10530
Ion Ratio Lower Upper
96 100
61 169.4 134.6 202.0
98 61.7 51.0 76.6



#16
Acetone
Concen: 2.316 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

Tgt Ion: 43 Resp: 1173
Ion Ratio Lower Upper
43 100
58 18.5 24.2 36.4#

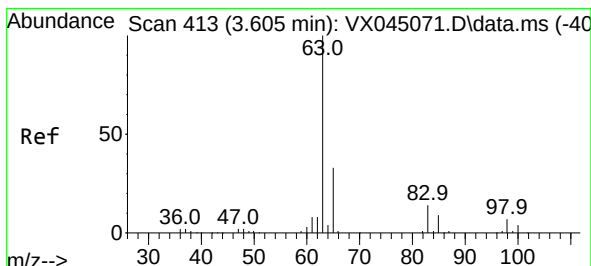
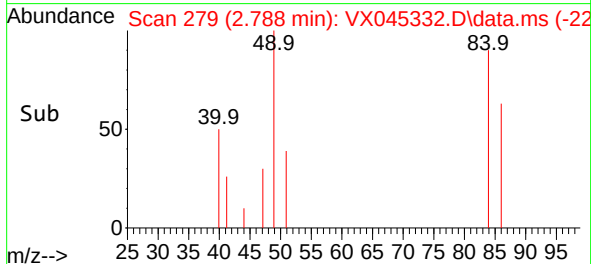
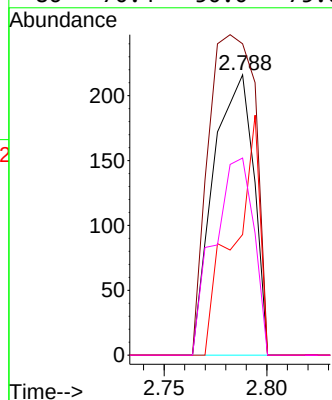
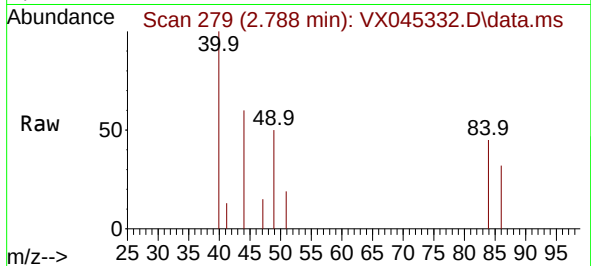




#20
Methylene Chloride
Concen: 0.292 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

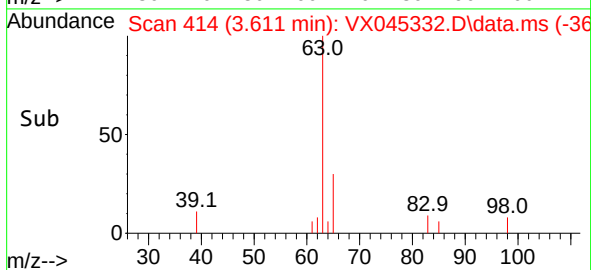
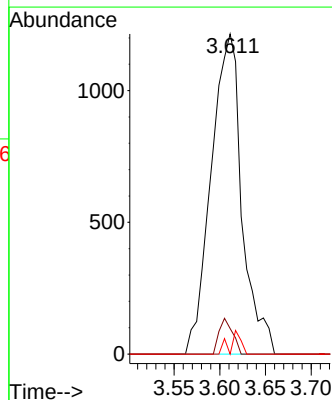
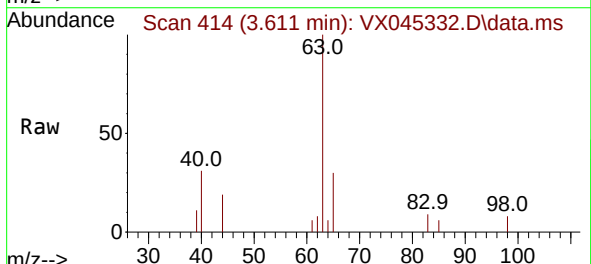
Instrument :
MSVOA_X
ClientSampleId :
DUP03-20250310

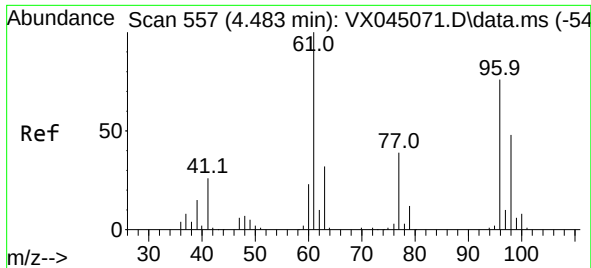
Tgt Ion:	84	Resp:	293
Ion	Ratio	Lower	Upper
84	100		
49	111.1	106.5	159.7
51	43.1	32.1	48.1
86	70.4	50.0	75.0



#24
1,1-Dichloroethane
Concen: 1.667 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

Tgt Ion:	63	Resp:	2852
Ion	Ratio	Lower	Upper
63	100		
98	8.0	3.4	10.2
100	0.0	2.1	6.5

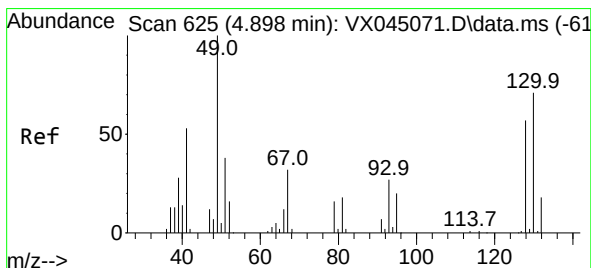
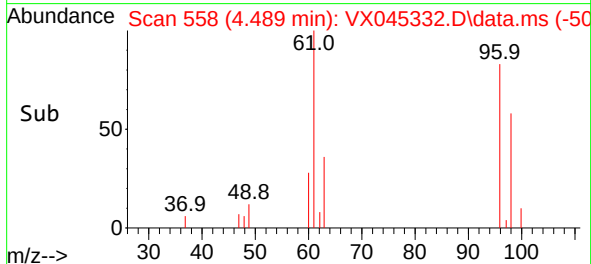
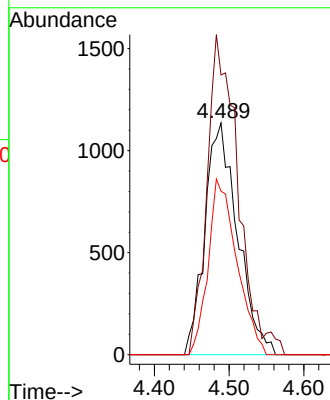
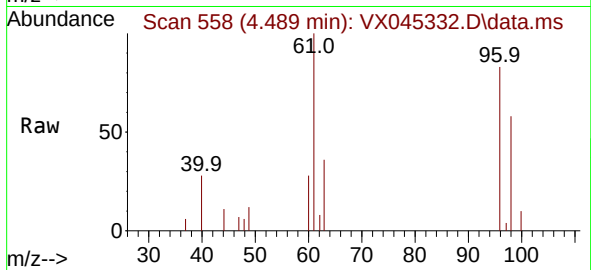




#27
 cis-1,2-Dichloroethene
 Concen: 3.353 ug/l
 RT: 4.489 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VX045332.D
 Acq: 18 Mar 2025 17:57

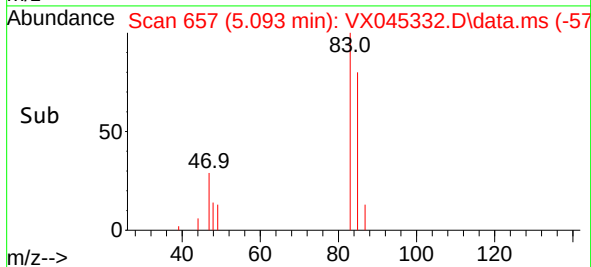
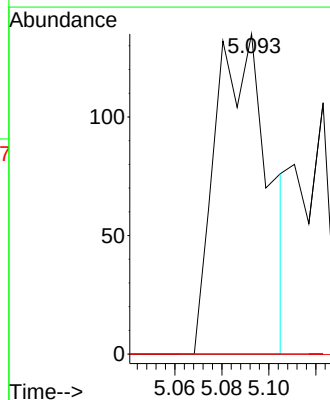
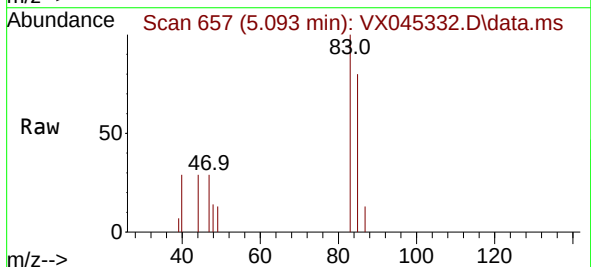
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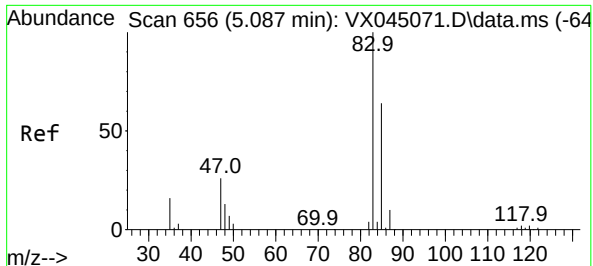
Tgt Ion: 96 Resp: 3449
 Ion Ratio Lower Upper
 96 100
 61 130.7 0.0 283.2
 98 66.6 0.0 128.0



#28
 Bromochloromethane
 Concen: 0.259 ug/l
 RT: 5.093 min Scan# 657
 Delta R.T. 0.195 min
 Lab File: VX045332.D
 Acq: 18 Mar 2025 17:57

Tgt Ion: 49 Resp: 211
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.4
 130 0.0 56.1 84.1#





#30

Chloroform

Concen: 2.135 ug/l

RT: 5.087 min Scan# 61

Delta R.T. 0.000 min

Lab File: VX045332.D

Acq: 18 Mar 2025 17:57

Instrument :

MSVOA_X

ClientSampleId :

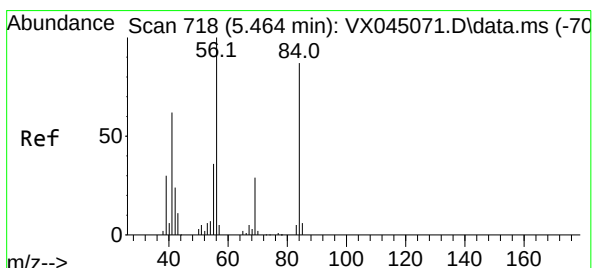
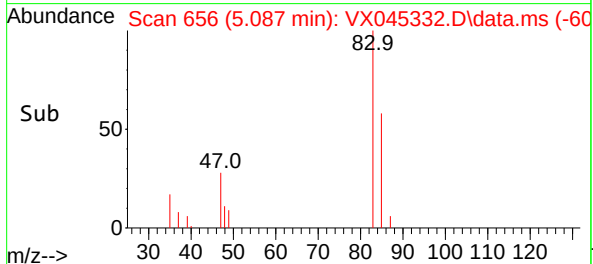
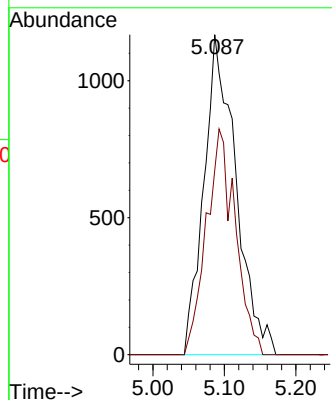
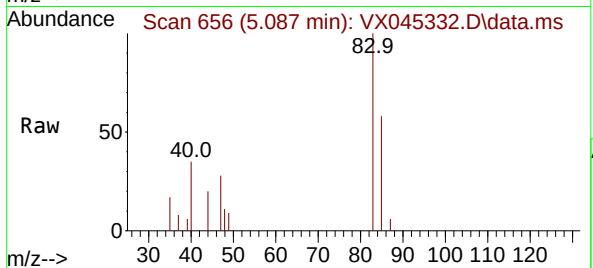
DUP03-20250310

Tgt Ion: 83 Resp: 3630

Ion Ratio Lower Upper

83 100

85 57.7 51.4 77.2



#31

Cyclohexane

Concen: 1.227 ug/l

RT: 5.538 min Scan# 730

Delta R.T. 0.073 min

Lab File: VX045332.D

Acq: 18 Mar 2025 17:57

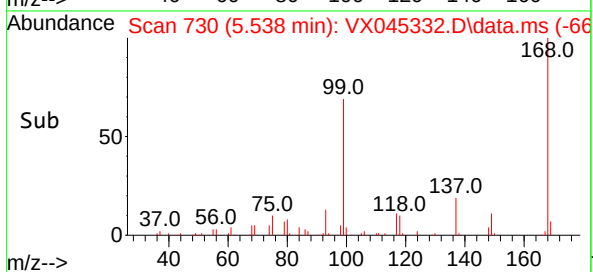
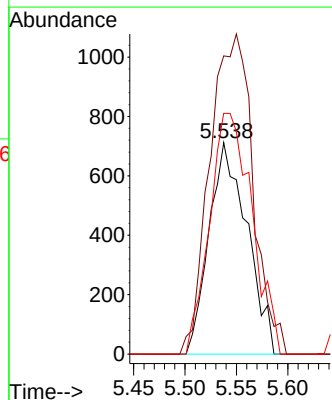
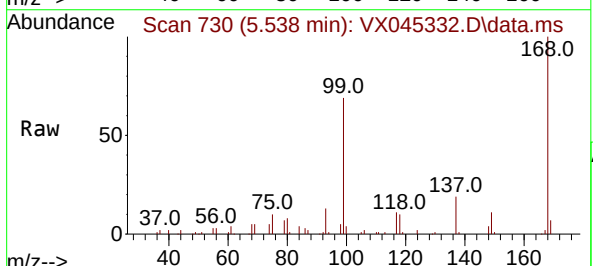
Tgt Ion: 56 Resp: 1822

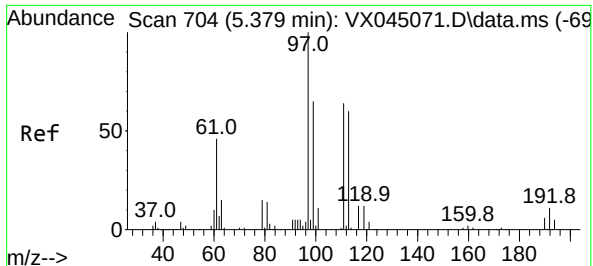
Ion Ratio Lower Upper

56 100

69 141.0 23.4 35.2#

84 113.9 69.4 104.2#





#32

1,1,1-Trichloroethane

Concen: 0.884 ug/l

RT: 5.373 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX045332.D

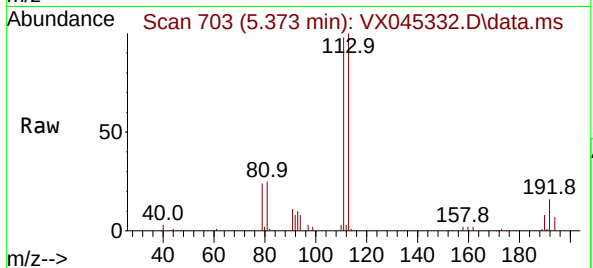
Acq: 18 Mar 2025 17:57

Instrument :

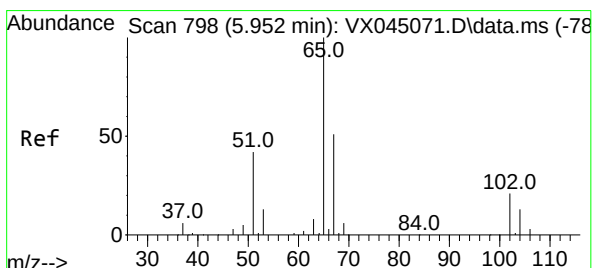
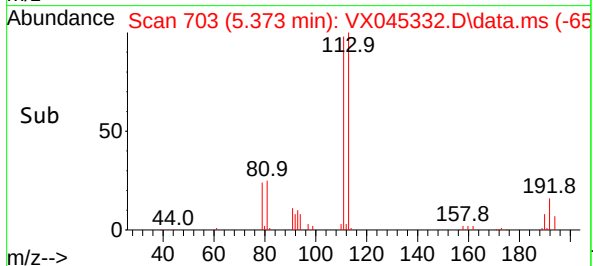
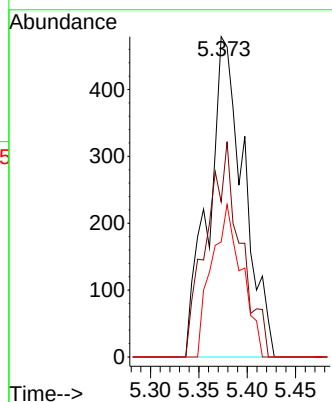
MSVOA_X

ClientSampleId :

DUP03-20250310



Tgt Ion:	97	Resp:	1214
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.6	77.4#
61	40.6	38.4	57.6



#33

1,2-Dichloroethane-d4

Concen: 55.029 ug/l

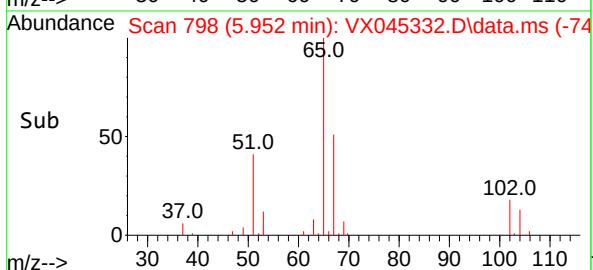
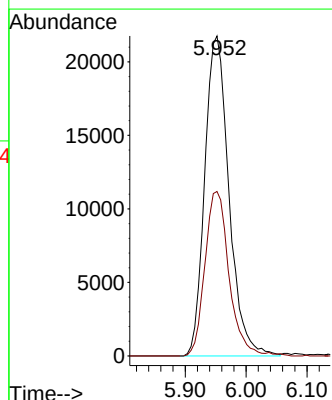
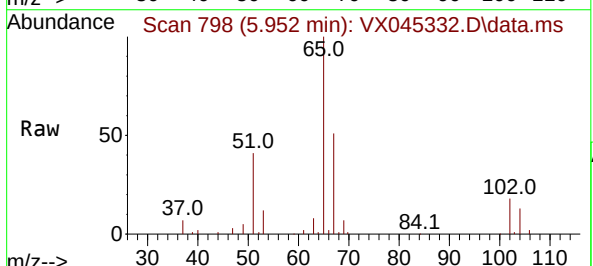
RT: 5.952 min Scan# 798

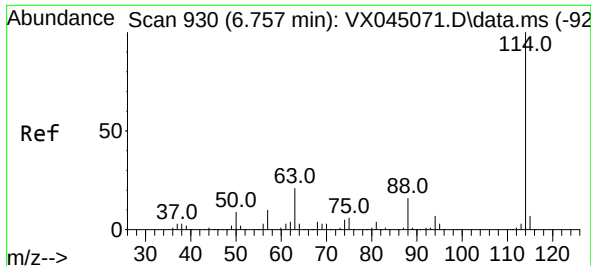
Delta R.T. 0.000 min

Lab File: VX045332.D

Acq: 18 Mar 2025 17:57

Tgt Ion:	65	Resp:	60083
Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	106.2

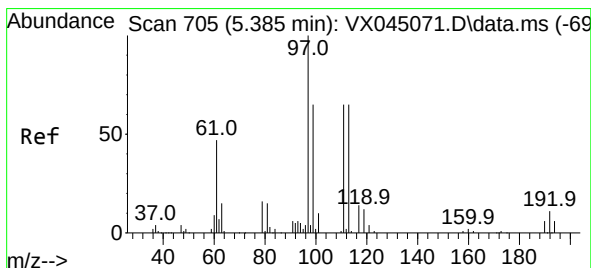
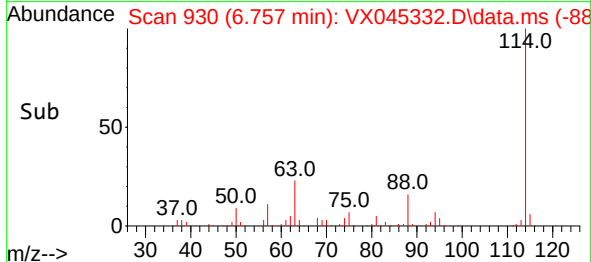
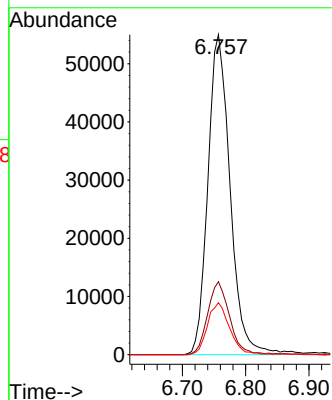
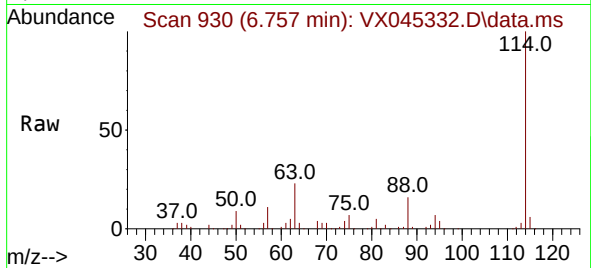




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

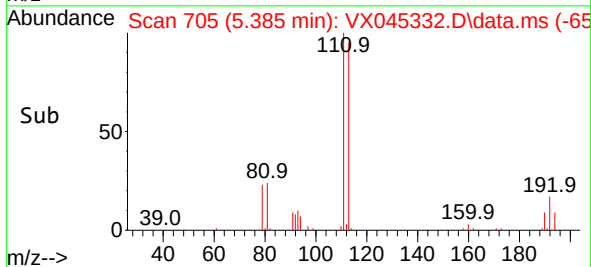
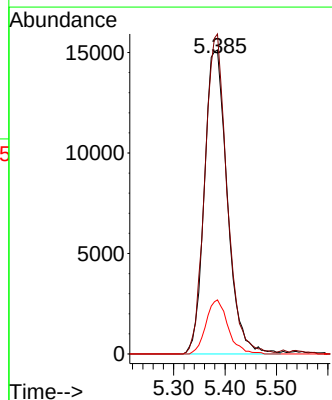
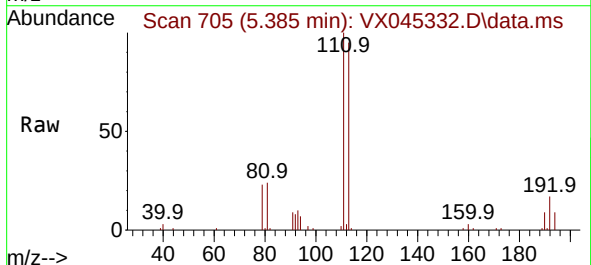
Instrument :
MSVOA_X
ClientSampleId :
DUP03-20250310

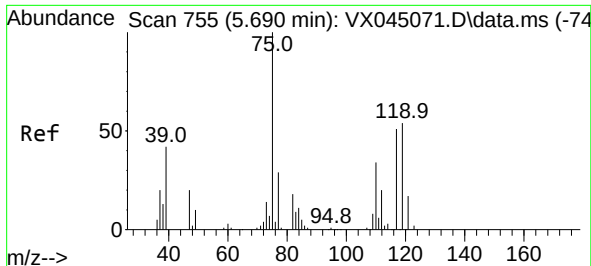
Tgt Ion:114 Resp: 133905
Ion Ratio Lower Upper
114 100
63 22.8 0.0 41.8
88 16.3 0.0 32.8



#35
Dibromofluoromethane
Concen: 52.298 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

Tgt Ion:113 Resp: 46827
Ion Ratio Lower Upper
113 100
111 102.0 81.8 122.6
192 17.1 14.3 21.5

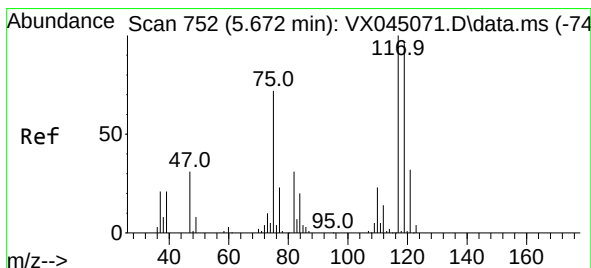
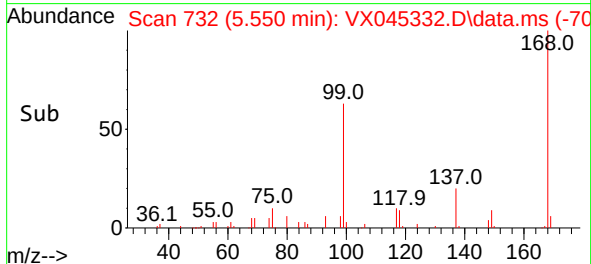
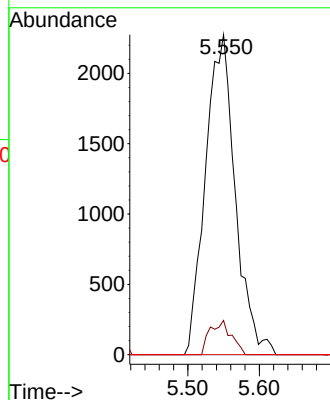
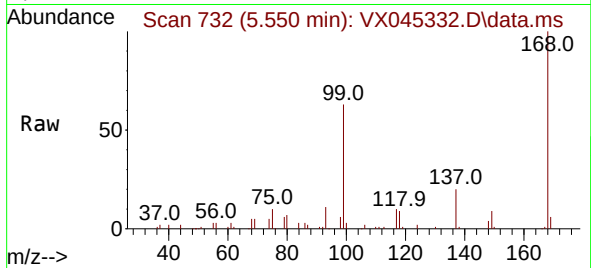




#36
1,1-Dichloropropene
Concen: 5.363 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.140 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

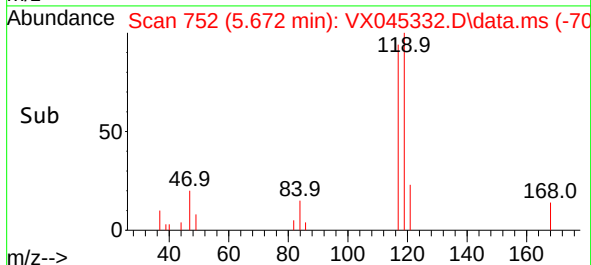
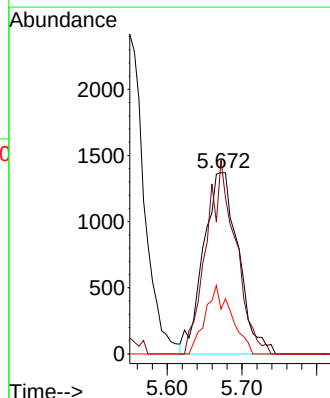
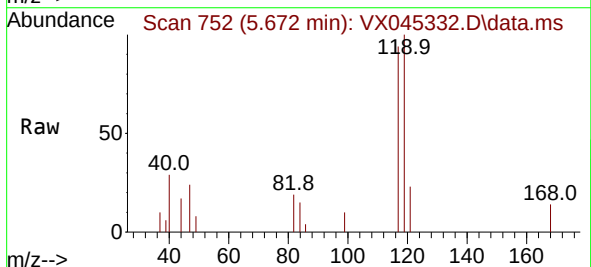
Instrument :
MSVOA_X
ClientSampleId :
DUP03-20250310

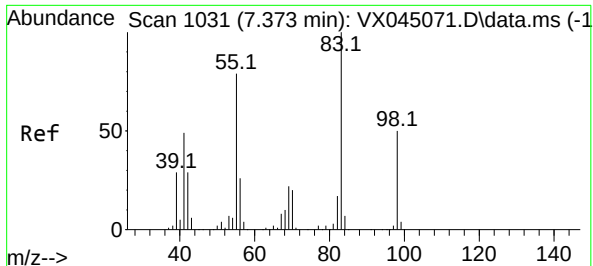
Tgt Ion: 75 Resp: 6585
Ion Ratio Lower Upper
75 100
110 7.6 16.9 50.6#
77 0.0 24.5 36.7#



#38
Carbon Tetrachloride
Concen: 3.555 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

Tgt Ion: 117 Resp: 4432
Ion Ratio Lower Upper
117 100
119 106.9 76.7 115.1
121 24.7 25.5 38.3#

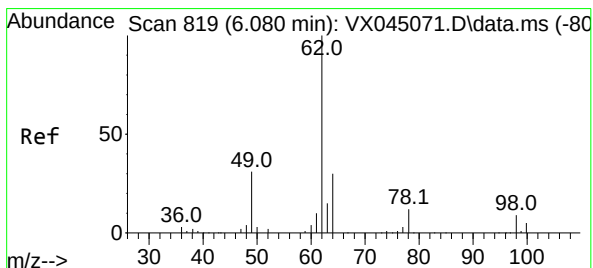
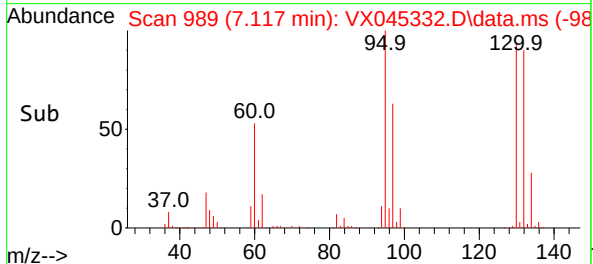
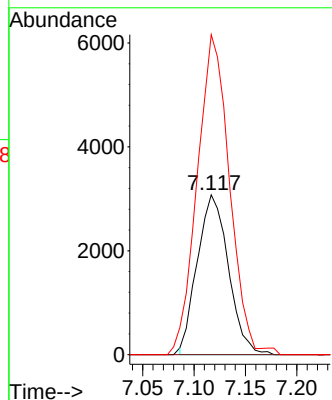
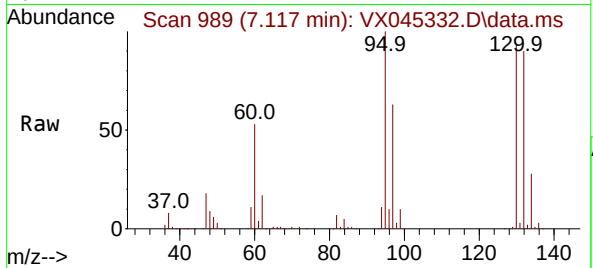




#39
Methylcyclohexane
Concen: 4.407 ug/l
RT: 7.117 min Scan# 91
Delta R.T. -0.256 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

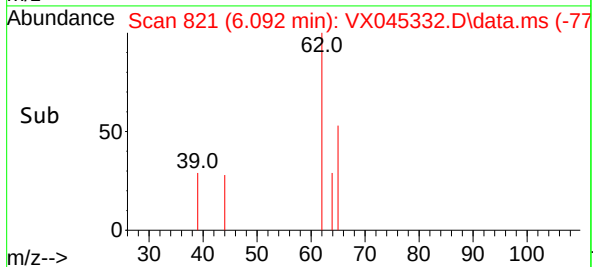
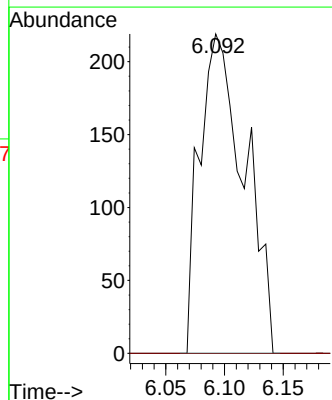
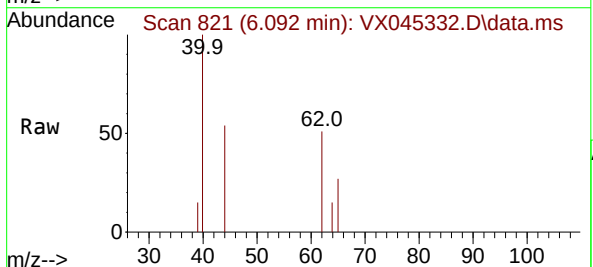
Instrument :
MSVOA_X
ClientSampleId :
DUP03-20250310

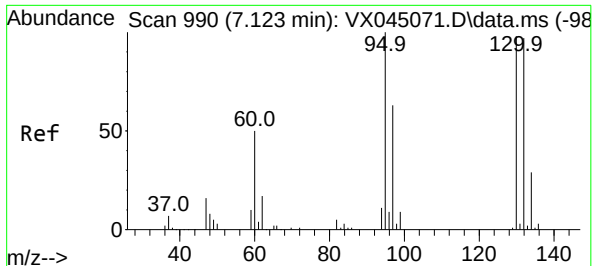
Tgt Ion: 83 Resp: 6484
Ion Ratio Lower Upper
83 100
55 0.0 63.0 94.4#
98 200.2 39.7 59.5#



#42
1,2-Dichloroethane
Concen: 0.418 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.012 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

Tgt Ion: 62 Resp: 584
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.2

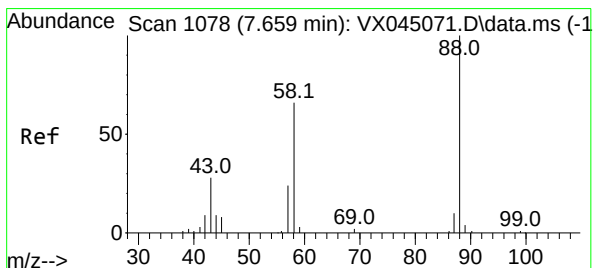
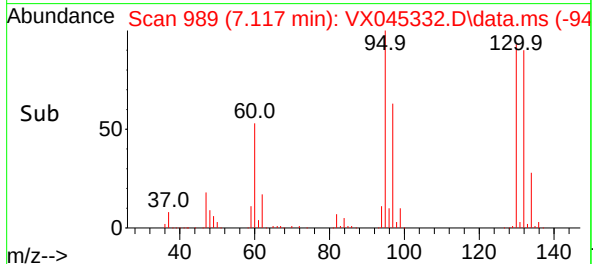
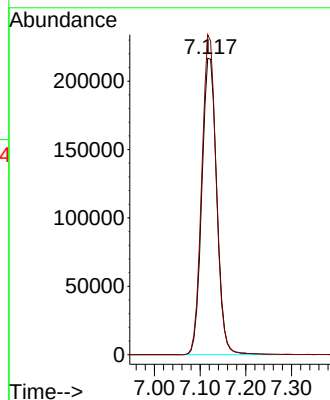
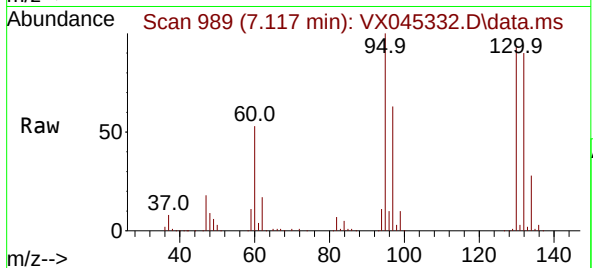




#44
Trichloroethene
Concen: 540.037 ug/l
RT: 7.117 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

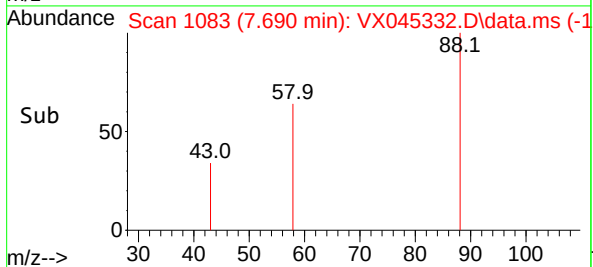
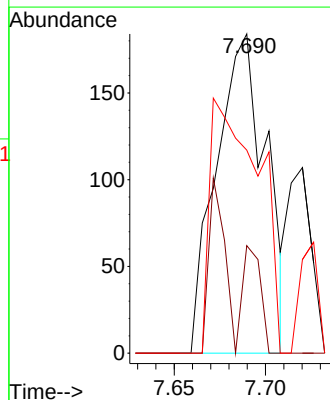
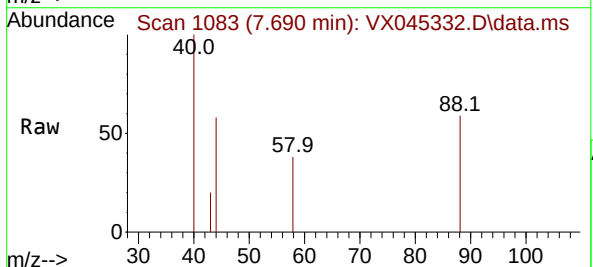
Instrument :
MSVOA_X
ClientSampleId :
DUP03-20250310

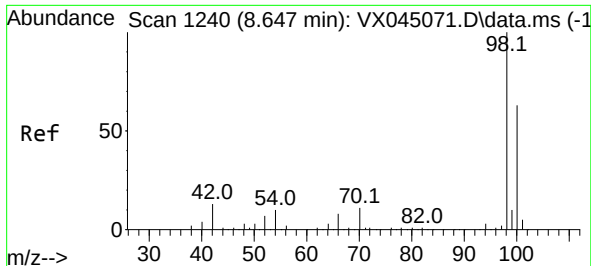
Tgt Ion:130 Resp: 491693
Ion Ratio Lower Upper
130 100
95 108.0 0.0 205.0



#49
1,4-Dioxane
Concen: 14.055 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.031 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

Tgt Ion: 88 Resp: 348
Ion Ratio Lower Upper
88 100
43 12.1 28.7 43.1#
58 0.0 55.8 83.8#

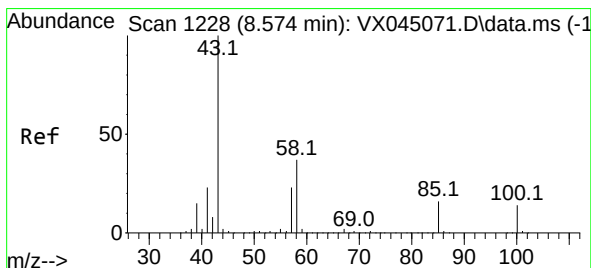
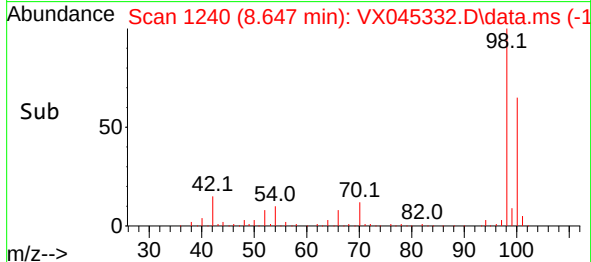
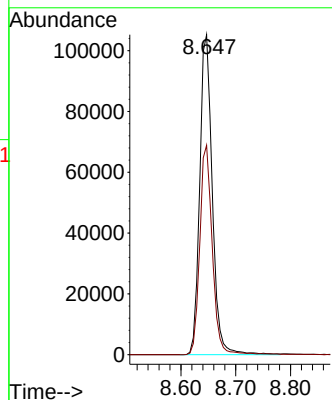
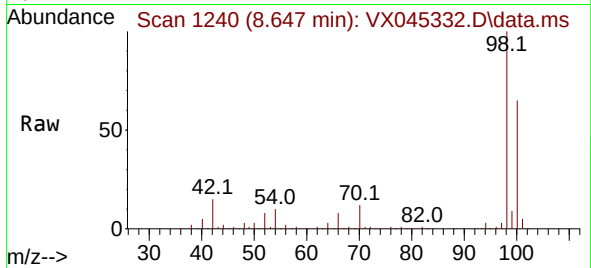




#50
Toluene-d8
Concen: 51.736 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

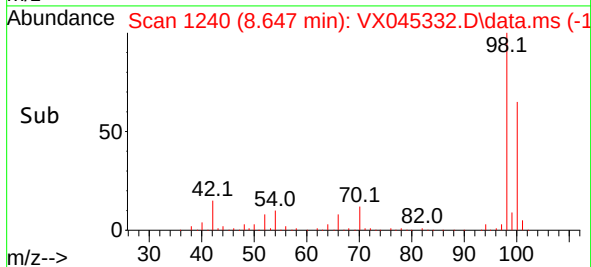
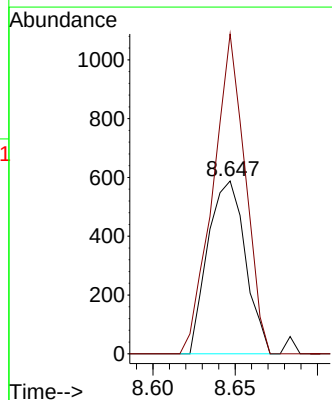
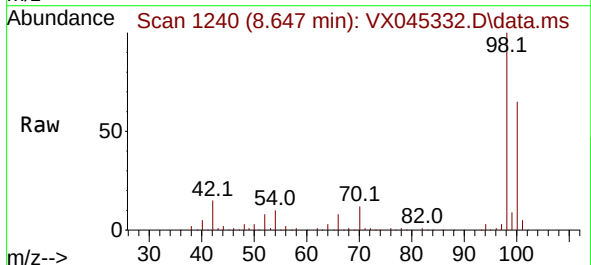
Instrument :
MSVOA_X
ClientSampleId :
DUP03-20250310

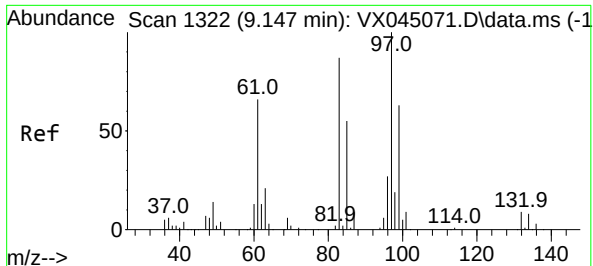
Tgt Ion: 98 Resp: 167939
Ion Ratio Lower Upper
98 100
100 65.2 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.593 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.073 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

Tgt Ion: 43 Resp: 932
Ion Ratio Lower Upper
43 100
58 159.4 29.2 43.8#

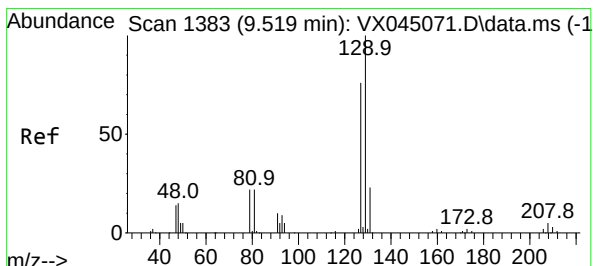
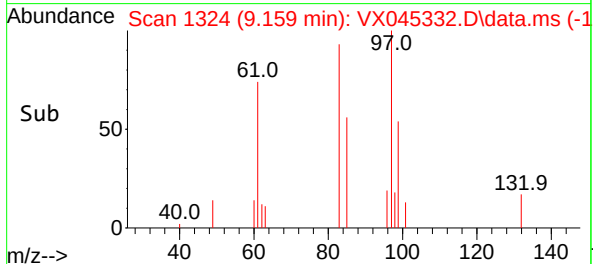
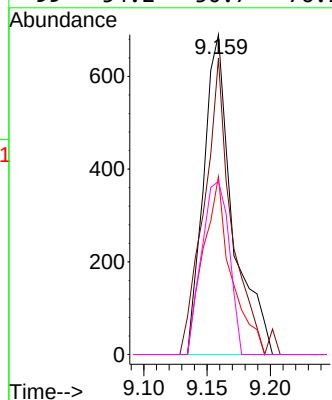
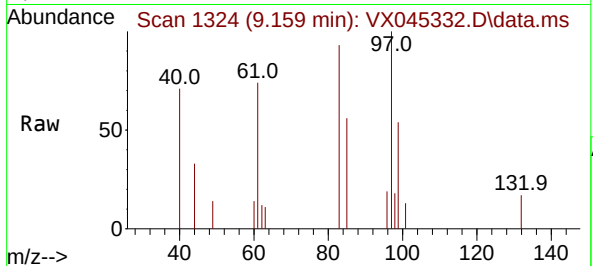




#55
 1,1,2-Trichloroethane
 Concen: 1.176 ug/l
 RT: 9.159 min Scan# 11
 Delta R.T. 0.012 min
 Lab File: VX045332.D
 Acq: 18 Mar 2025 17:57

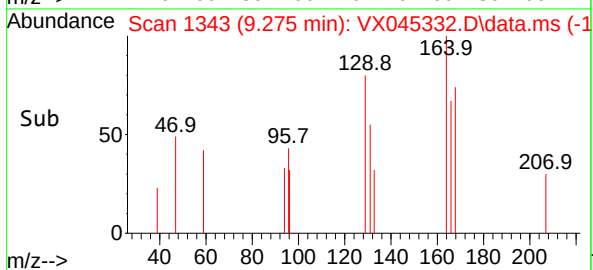
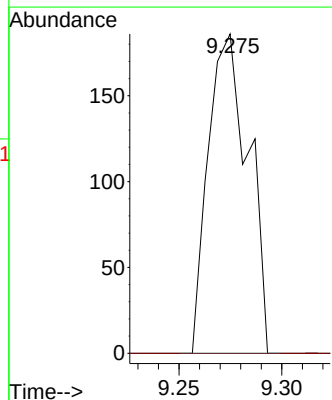
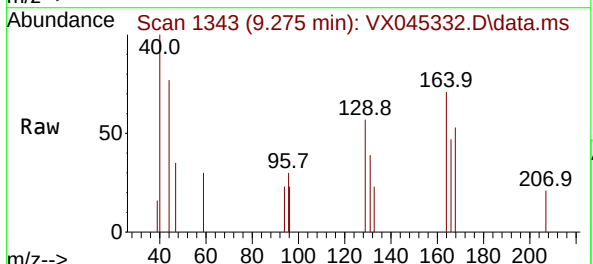
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP03-20250310

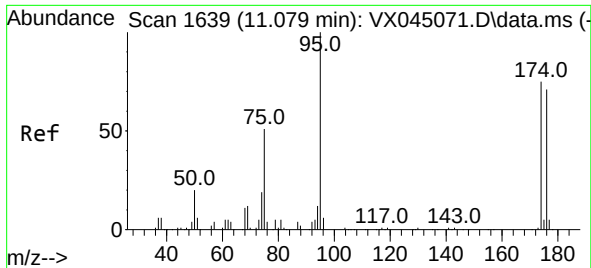
Tgt Ion: 97	Resp: 1101
Ion Ratio	Lower Upper
97 100	
83 92.6	69.4 104.2
85 55.7	44.1 66.1
99 54.2	50.7 76.1



#60
 Dibromochloromethane
 Concen: 0.258 ug/l
 RT: 9.275 min Scan# 1343
 Delta R.T. -0.244 min
 Lab File: VX045332.D
 Acq: 18 Mar 2025 17:57

Tgt Ion:129	Resp:	253	
Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.5	115.5#





#62

4-Bromofluorobenzene

Concen: 55.708 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045332.D

Acq: 18 Mar 2025 17:57

Instrument :

MSVOA_X

ClientSampleId :

DUP03-20250310

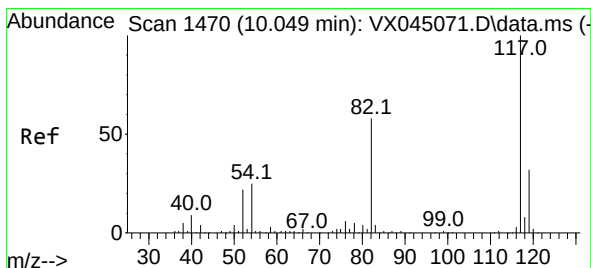
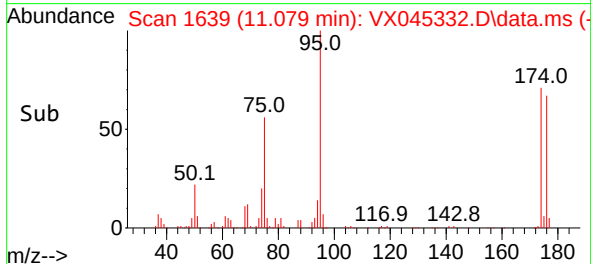
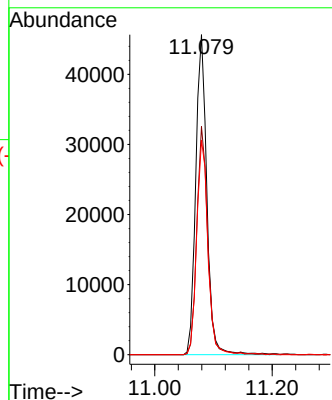
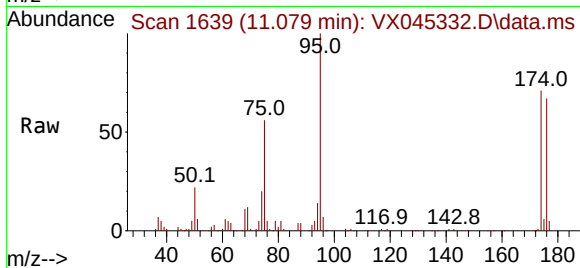
Tgt Ion: 95 Resp: 59923

Ion Ratio Lower Upper

95 100

174 70.3 0.0 148.2

176 67.9 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: VX045332.D

Acq: 18 Mar 2025 17:57

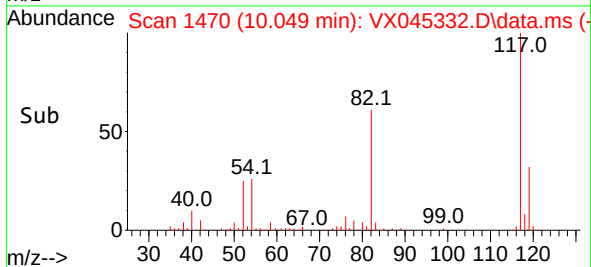
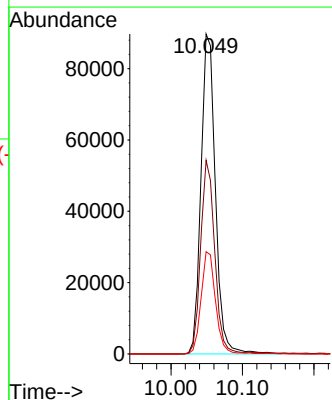
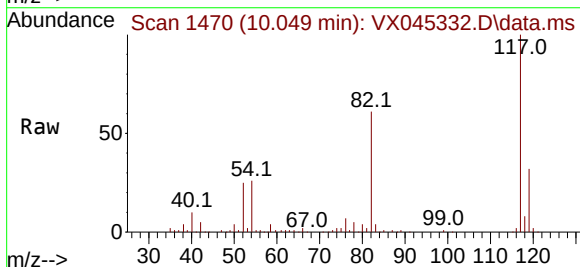
Tgt Ion: 117 Resp: 125891

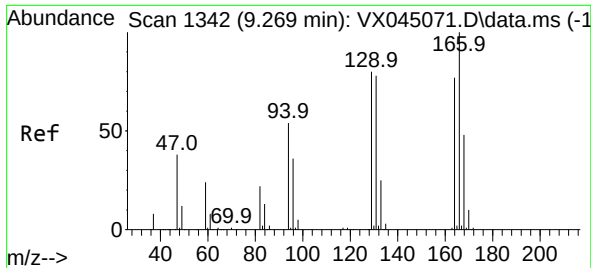
Ion Ratio Lower Upper

117 100

82 60.5 46.3 69.5

119 32.0 25.7 38.5

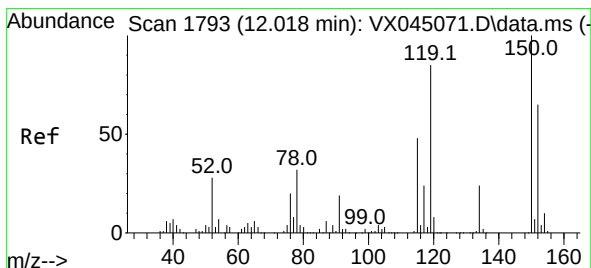
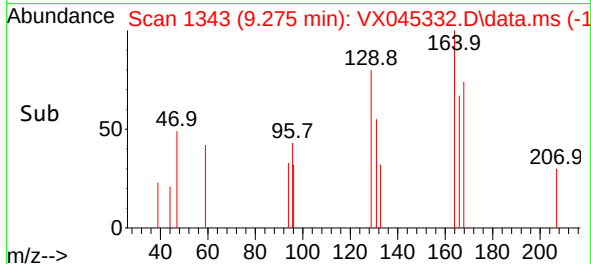
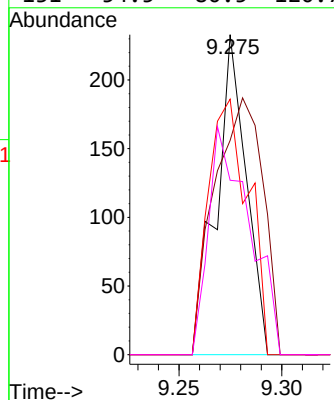
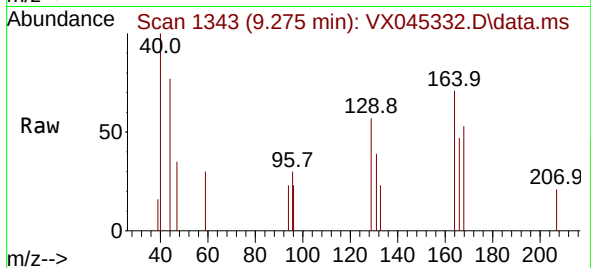




#64
Tetrachloroethene
Concen: 0.295 ug/l
RT: 9.275 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

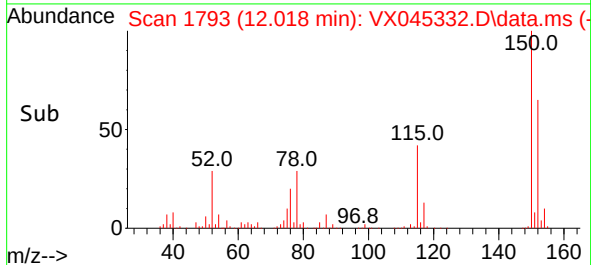
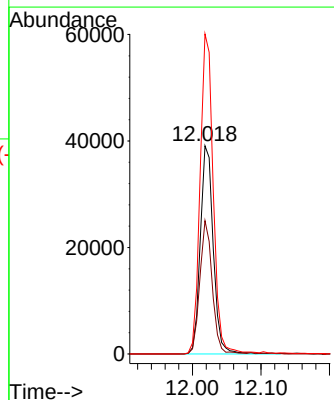
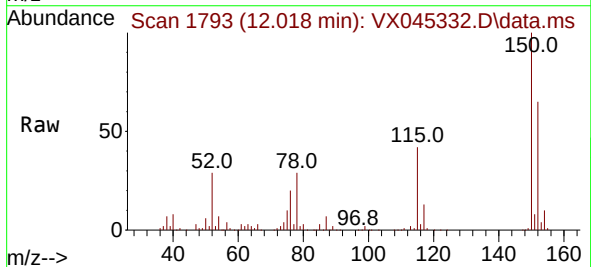
Instrument :
MSVOA_X
ClientSampleId :
DUP03-20250310

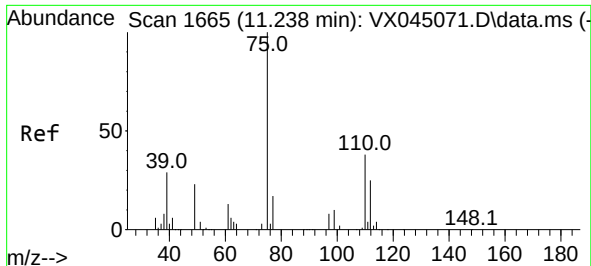
Tgt Ion:164 Resp: 238
Ion Ratio Lower Upper
164 100
166 67.0 103.6 155.4#
129 79.8 82.7 124.1#
131 54.5 80.5 120.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

Tgt Ion:152 Resp: 51700
Ion Ratio Lower Upper
152 100
115 61.1 44.2 132.6
150 154.9 0.0 349.0

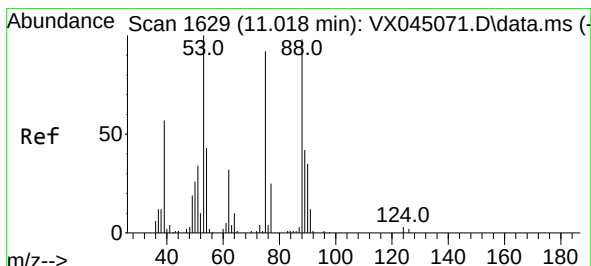
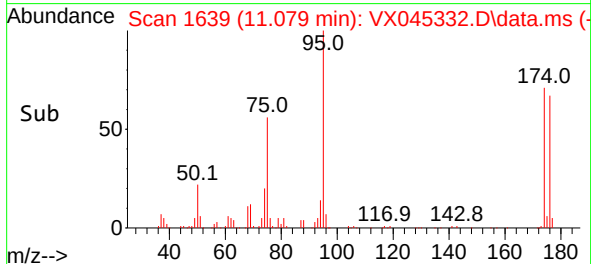
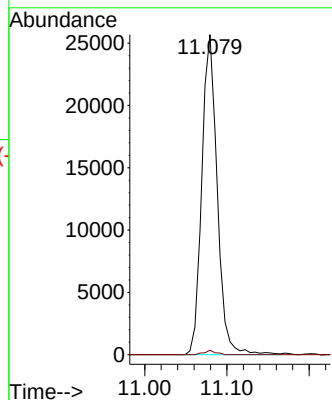
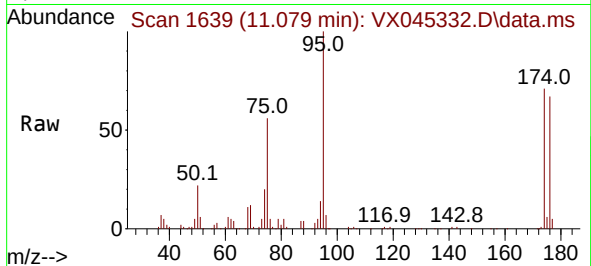




#76
1,2,3-Trichloropropane
Concen: 27.802 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

Instrument :
MSVOA_X
ClientSampleId :
DUP03-20250310

Tgt Ion: 75 Resp: 33455
Ion Ratio Lower Upper
75 100
77 1.0 20.7 62.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 95.144 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX045332.D
Acq: 18 Mar 2025 17:57

Tgt Ion: 75 Resp: 33455
Ion Ratio Lower Upper
75 100
53 0.0 88.5 132.7#
89 0.0 36.2 54.4#

