

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032425\
 Data File : VX045413.D
 Acq On : 24 Mar 2025 14:30
 Operator : JC/MD
 Sample : Q1608-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP08-20250318

Quant Time: Mar 25 01:34:16 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)

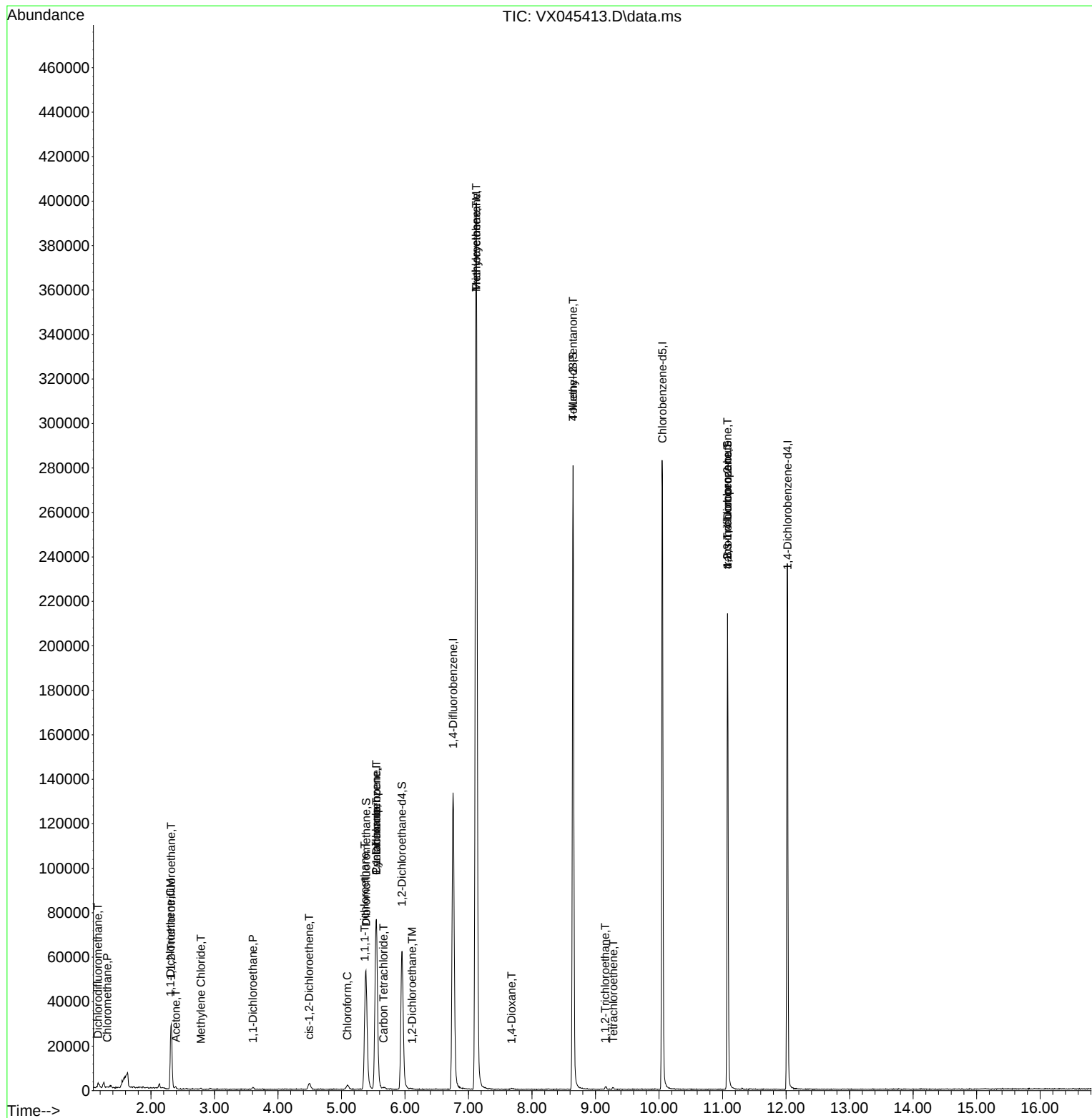
Internal Standards						
1) Pentafluorobenzene	5.550	168	66432	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	131180	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	119040	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	45448	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	60693	57.436	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 114.880%	
35) Dibromofluoromethane	5.385	113	45614	52.002	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 104.000%	
50) Toluene-d8	8.647	98	160772	50.557	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.120%	
62) 4-Bromofluorobenzene	11.079	95	54900	52.099	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 104.200%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	1312	1.569	ug/l	83
3) Chloromethane	1.313	50	369	0.361	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	9946	12.882	ug/l	96
12) 1,1-Dichloroethene	2.307	96	2198	2.693	ug/l	93
16) Acetone	2.392	43	779	1.589	ug/l #	70
20) Methylene Chloride	2.788	84	200	0.206	ug/l #	61
24) 1,1-Dichloroethane	3.605	63	1296	0.783	ug/l #	83
27) cis-1,2-Dichloroethene	4.489	96	1634	1.641	ug/l	92
30) Chloroform	5.093	83	2448	1.488	ug/l	89
31) Cyclohexane	5.550	56	2069	1.439	ug/l #	43
32) 1,1,1-Trichloroethane	5.367	97	342	0.257	ug/l #	44
36) 1,1-Dichloropropene	5.550	75	6496	5.400	ug/l #	51
38) Carbon Tetrachloride	5.660	117	315	0.258	ug/l #	53
39) Methylcyclohexane	7.123	83	2083	1.445	ug/l #	1
42) 1,2-Dichloroethane	6.111	62	277	0.203	ug/l #	75
44) Trichloroethene	7.123	130	146962	164.765	ug/l	99
49) 1,4-Dioxane	7.678	88	498	20.530	ug/l #	54
51) 4-Methyl-2-Pentanone	8.647	43	1076	0.699	ug/l #	1
55) 1,1,2-Trichloroethane	9.153	97	431	0.470	ug/l #	76
64) Tetrachloroethene	9.281	164	187	0.245	ug/l #	71
76) 1,2,3-Trichloropropane	11.079	75	31087	29.388	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	31087	100.572	ug/l #	6

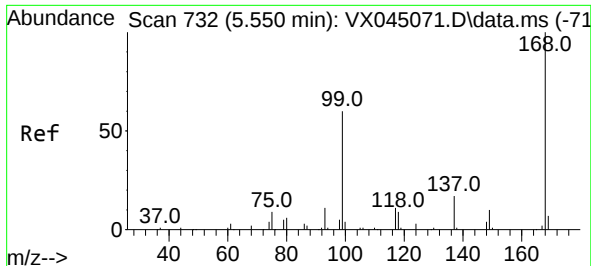
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

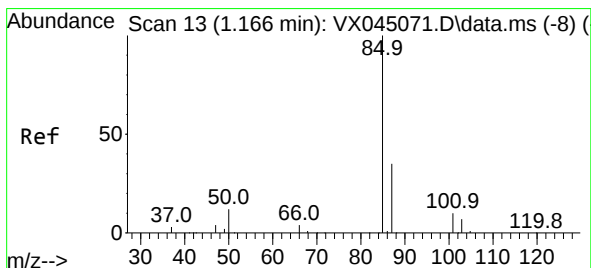
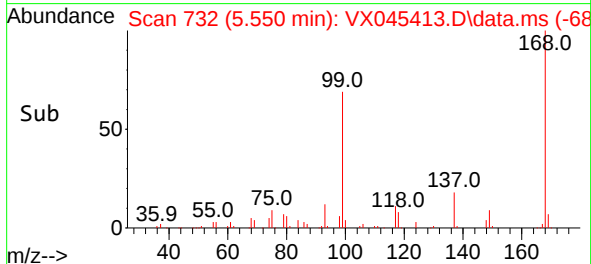
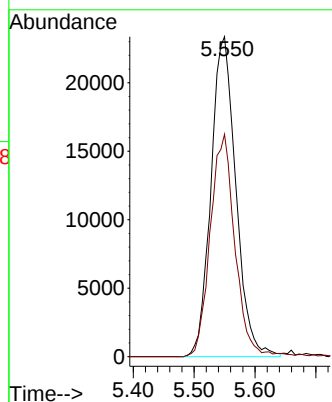
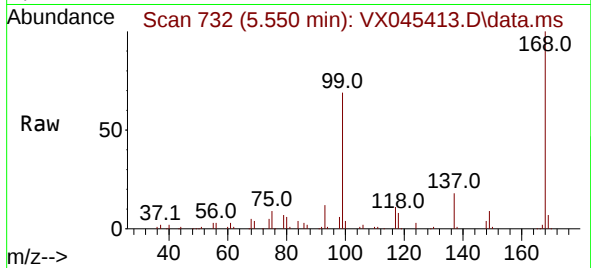




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045413.D
Acq: 24 Mar 2025 14:30

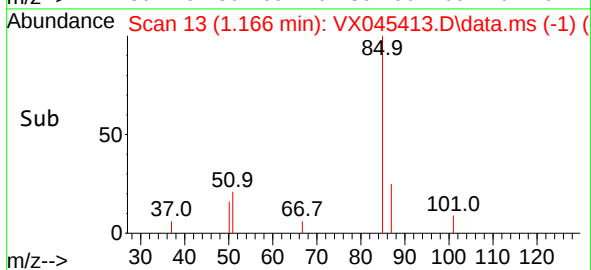
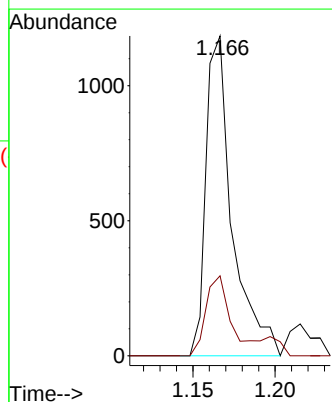
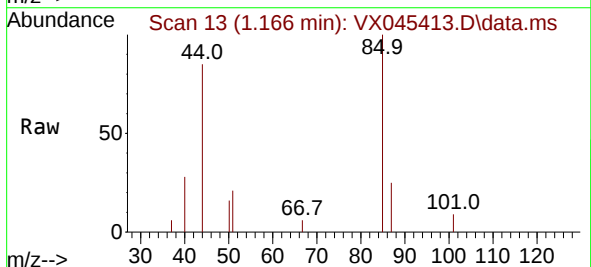
Instrument :
MSVOA_X
ClientSampleId :
DUP08-20250318

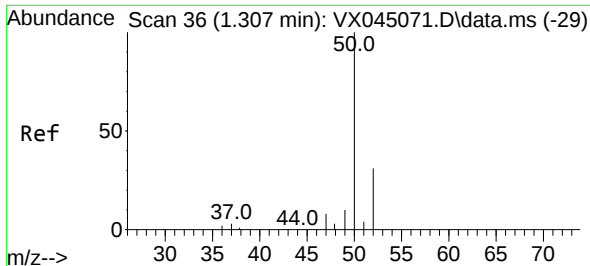
Tgt Ion:168 Resp: 66432
Ion Ratio Lower Upper
168 100
99 69.5 48.2 72.4



#2
Dichlorodifluoromethane
Concen: 1.569 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045413.D
Acq: 24 Mar 2025 14:30

Tgt Ion: 85 Resp: 1312
Ion Ratio Lower Upper
85 100
87 25.0 17.4 52.3

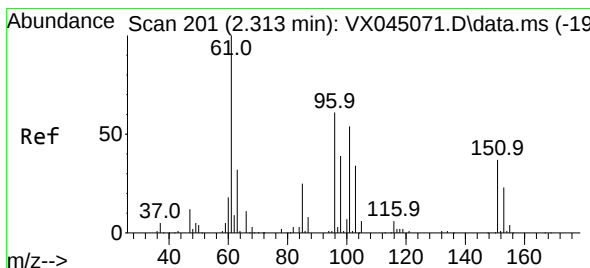
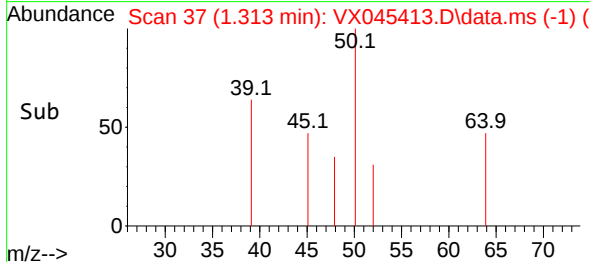
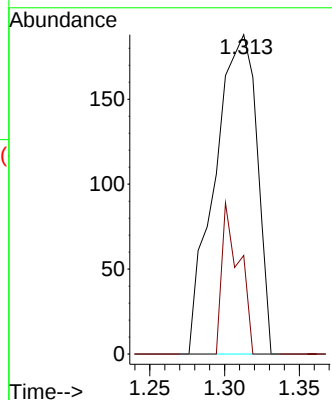
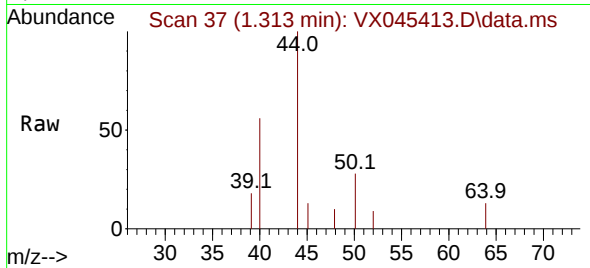




#3
Chloromethane
Concen: 0.361 ug/l
RT: 1.313 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX045413.D
Acq: 24 Mar 2025 14:30

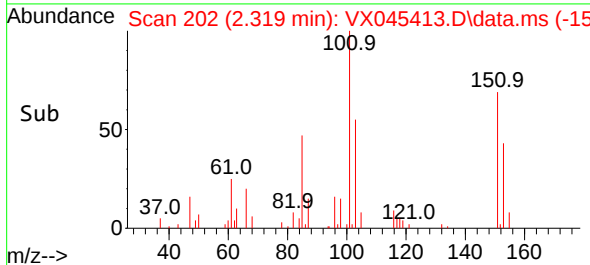
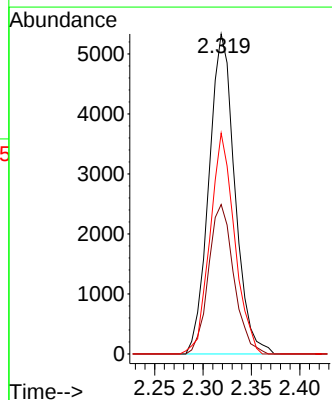
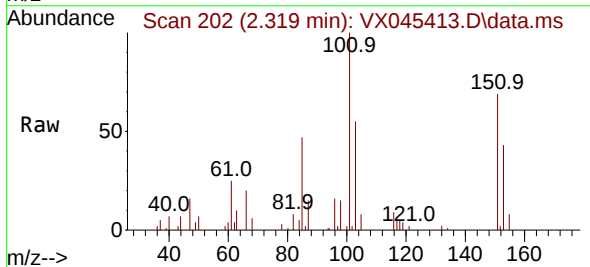
Instrument :
MSVOA_X
ClientSampleId :
DUP08-20250318

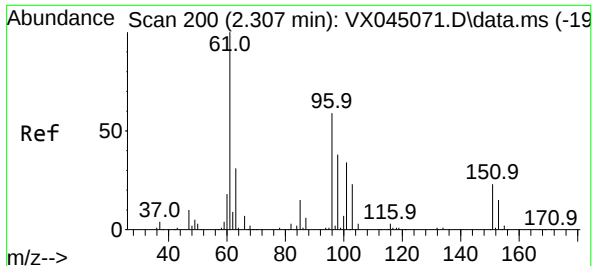
Tgt Ion: 50 Resp: 369
Ion Ratio Lower Upper
50 100
52 30.9 25.0 37.4



#9
1,1,2-Trichlorotrifluoroethane
Concen: 12.882 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX045413.D
Acq: 24 Mar 2025 14:30

Tgt Ion: 101 Resp: 9946
Ion Ratio Lower Upper
101 100
85 45.5 36.2 54.4
151 65.3 56.4 84.6





#12

1,1-Dichloroethene

Concen: 2.693 ug/l

RT: 2.307 min Scan# 200

Delta R.T. 0.000 min

Lab File: VX045413.D

Acq: 24 Mar 2025 14:30

Instrument :

MSVOA_X

ClientSampleId :

DUP08-20250318

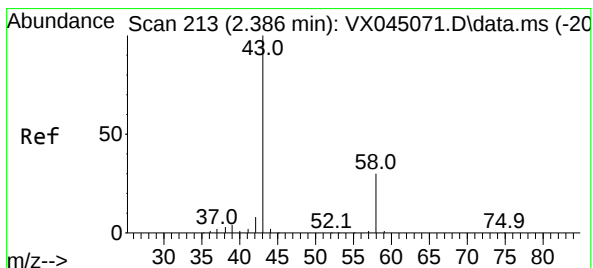
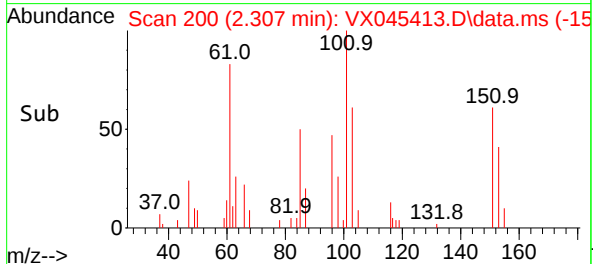
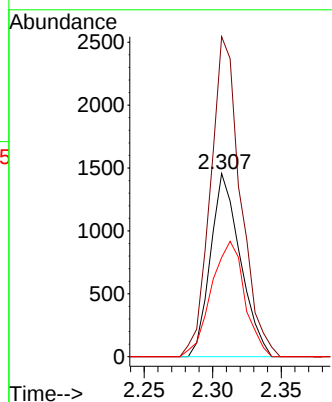
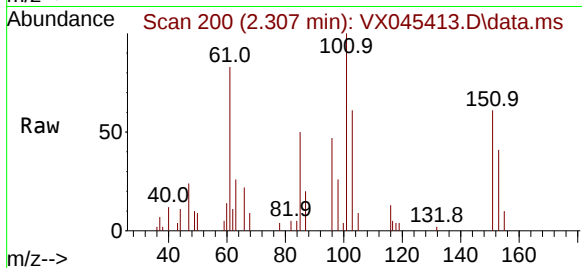
Tgt Ion: 96 Resp: 2198

Ion Ratio Lower Upper

96 100

61 174.7 134.6 202.0

98 54.2 51.0 76.6



#16

Acetone

Concen: 1.589 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.006 min

Lab File: VX045413.D

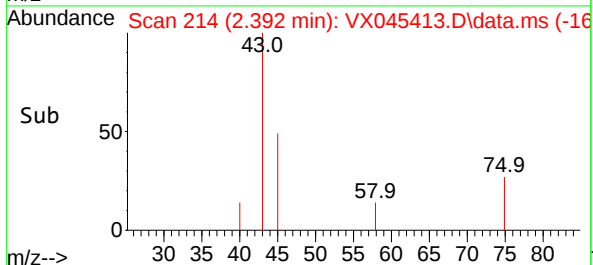
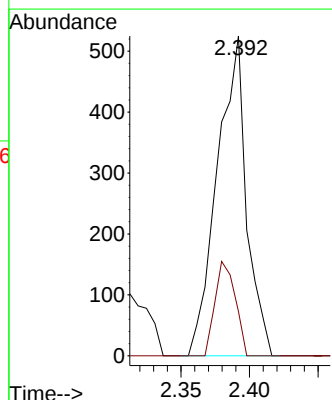
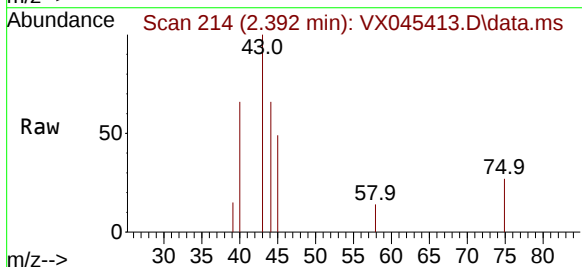
Acq: 24 Mar 2025 14:30

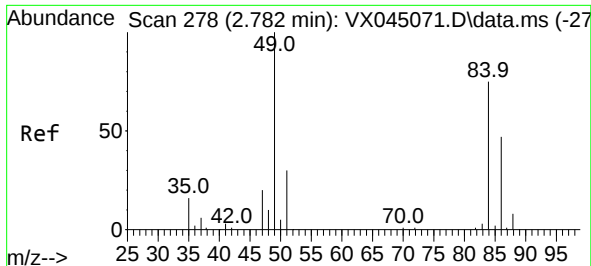
Tgt Ion: 43 Resp: 779

Ion Ratio Lower Upper

43 100

58 13.9 24.2 36.4#





#20

Methylene Chloride

Concen: 0.206 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX045413.D

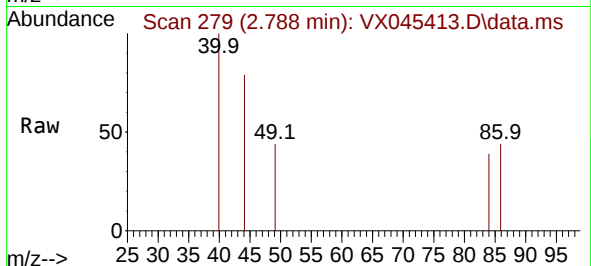
Acq: 24 Mar 2025 14:30

Instrument :

MSVOA_X

ClientSampleId :

DUP08-20250318



Tgt Ion: 84 Resp: 200

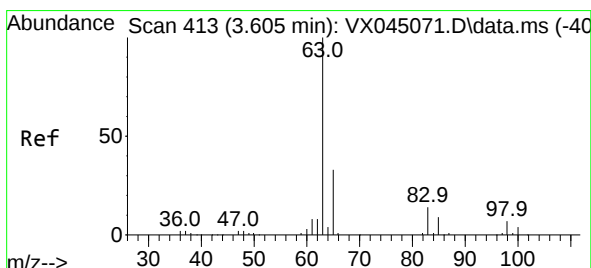
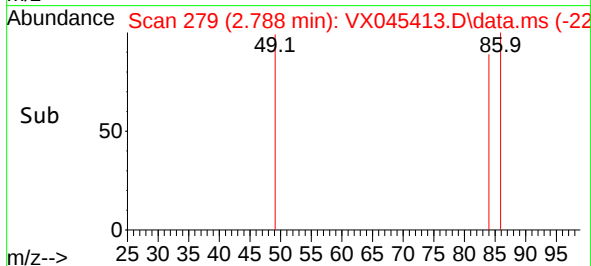
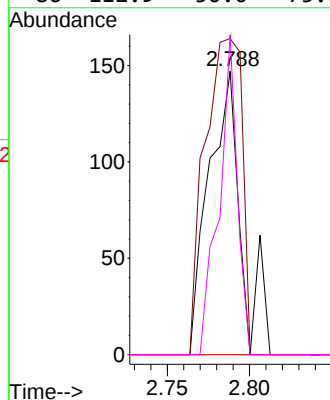
Ion Ratio Lower Upper

84 100

49 111.6 106.5 159.7

51 0.0 32.1 48.1#

86 112.9 50.0 75.0#



#24

1,1-Dichloroethane

Concen: 0.783 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX045413.D

Acq: 24 Mar 2025 14:30

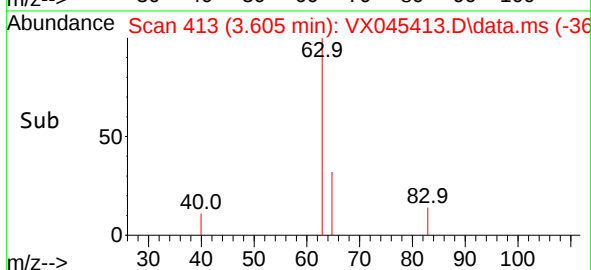
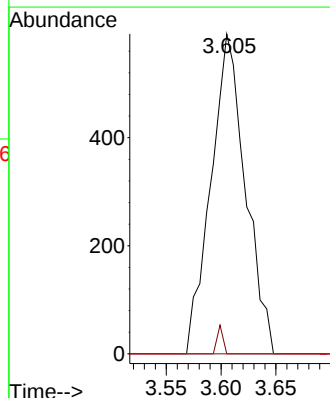
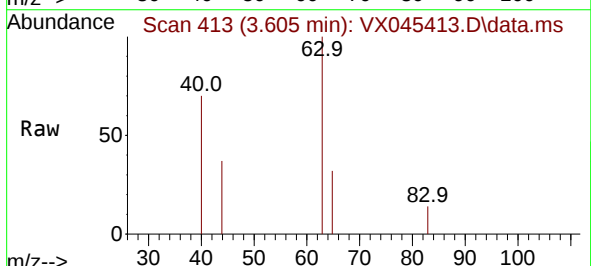
Tgt Ion: 63 Resp: 1296

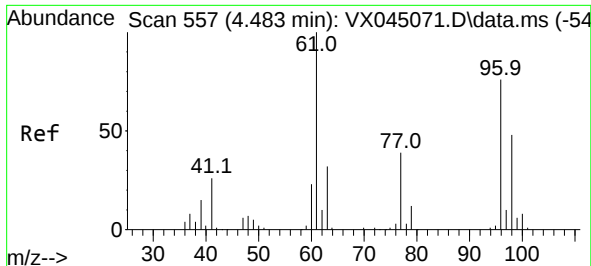
Ion Ratio Lower Upper

63 100

98 0.0 3.4 10.2#

100 0.0 2.1 6.5#





#27

cis-1,2-Dichloroethene

Concen: 1.641 ug/l

RT: 4.489 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX045413.D

Acq: 24 Mar 2025 14:30

Instrument :

MSVOA_X

ClientSampleId :

DUP08-20250318

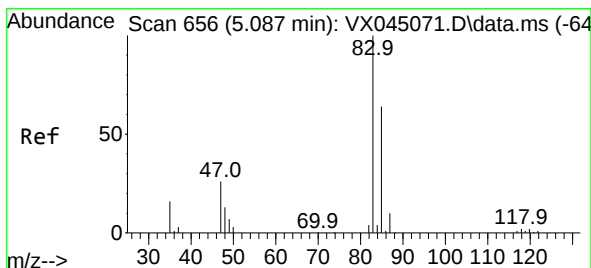
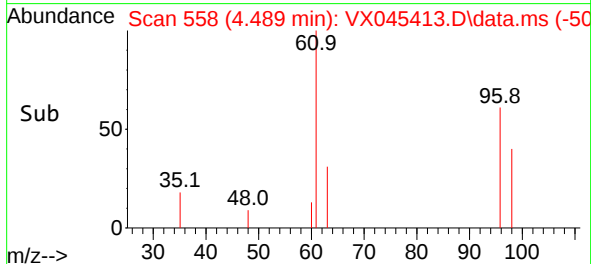
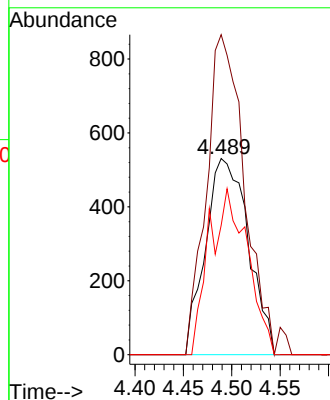
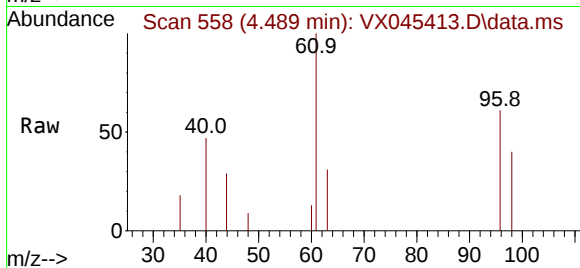
Tgt Ion: 96 Resp: 1634

Ion Ratio Lower Upper

96 100

61 146.8 0.0 283.2

98 75.8 0.0 128.0



#30

Chloroform

Concen: 1.488 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX045413.D

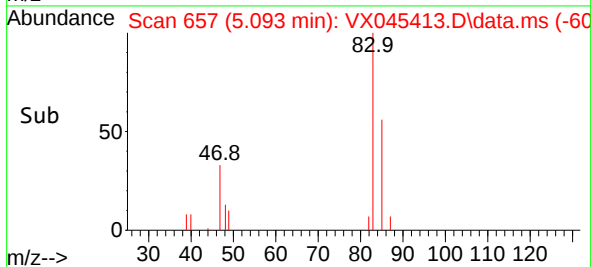
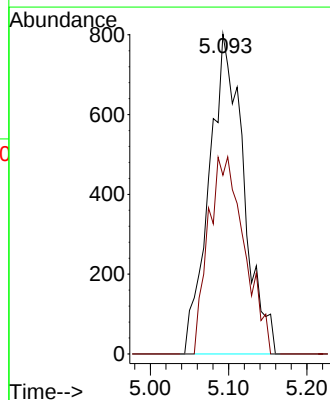
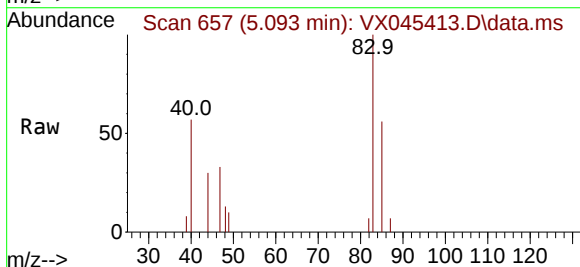
Acq: 24 Mar 2025 14:30

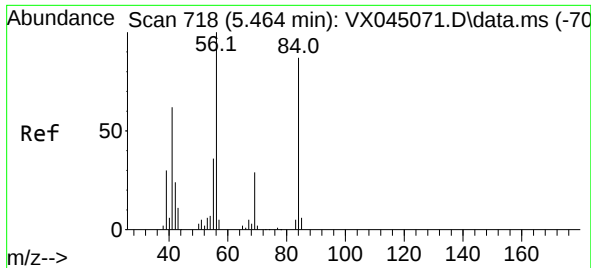
Tgt Ion: 83 Resp: 2448

Ion Ratio Lower Upper

83 100

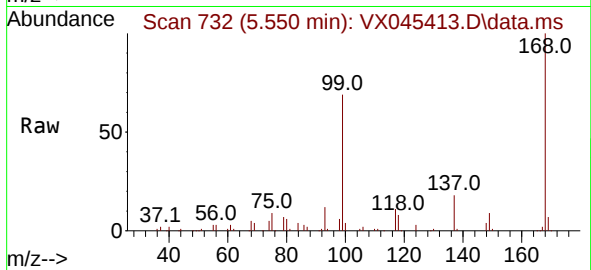
85 55.9 51.4 77.2



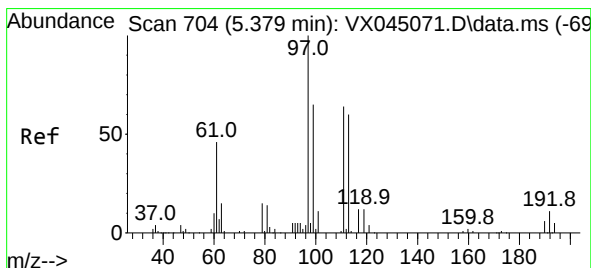
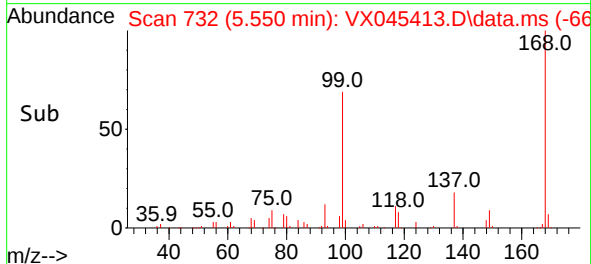
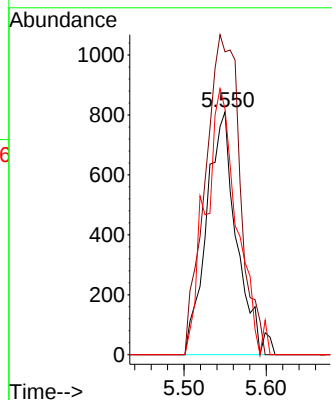


#31
Cyclohexane
Concen: 1.439 ug/l
RT: 5.550 min Scan# 718
Delta R.T. 0.085 min
Lab File: VX045413.D
Acq: 24 Mar 2025 14:30

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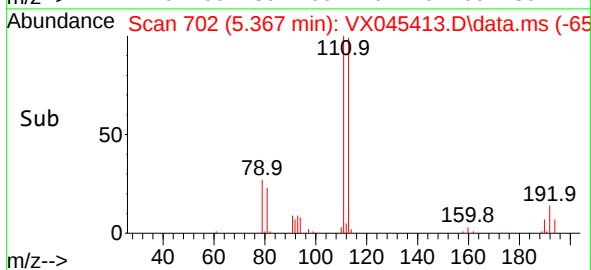
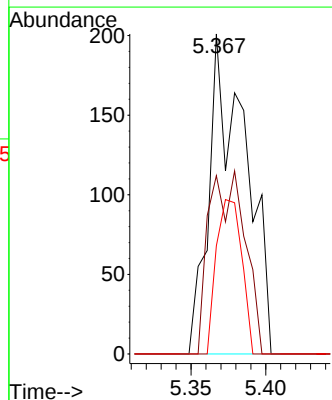
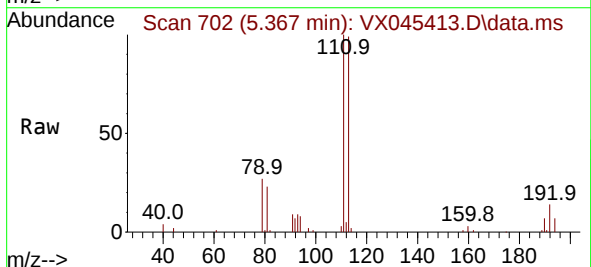


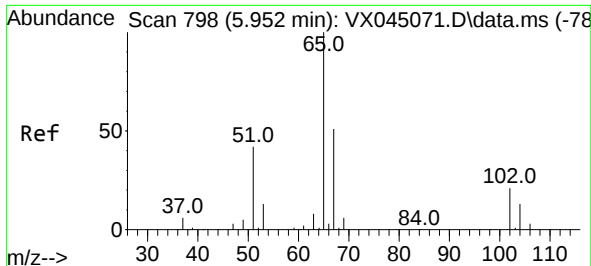
Tgt Ion: 56 Resp: 2069
Ion Ratio Lower Upper
56 100
69 124.8 23.4 35.2#
84 101.4 69.4 104.2



#32
1,1,1-Trichloroethane
Concen: 0.257 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.012 min
Lab File: VX045413.D
Acq: 24 Mar 2025 14:30

Tgt Ion: 97 Resp: 342
Ion Ratio Lower Upper
97 100
99 0.0 51.6 77.4#
61 33.3 38.4 57.6#

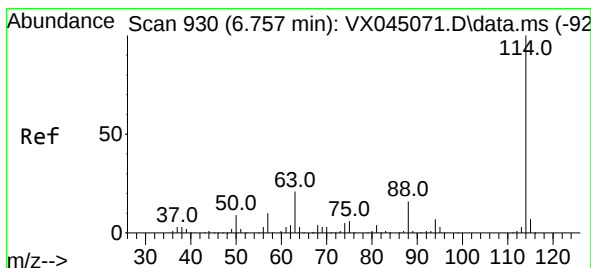
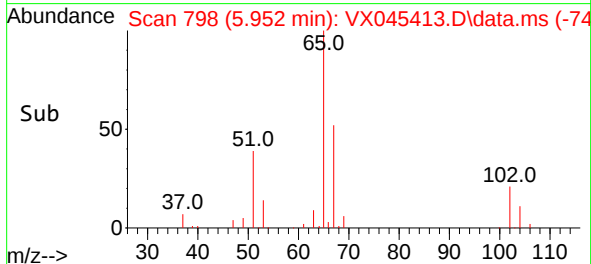
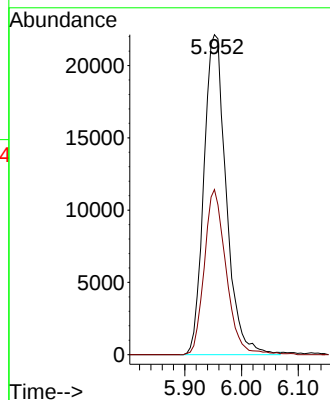
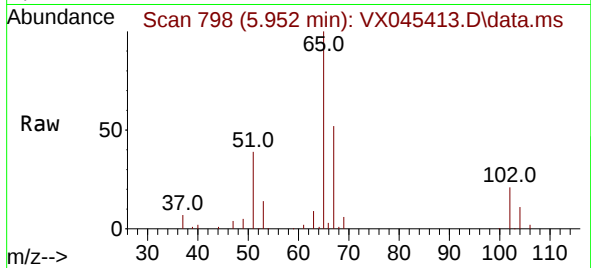




#33
 1,2-Dichloroethane-d4
 Concen: 57.436 ug/l
 RT: 5.952 min Scan# 798
 Delta R.T. 0.000 min
 Lab File: VX045413.D
 Acq: 24 Mar 2025 14:30

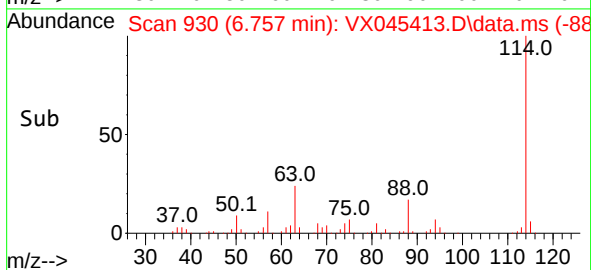
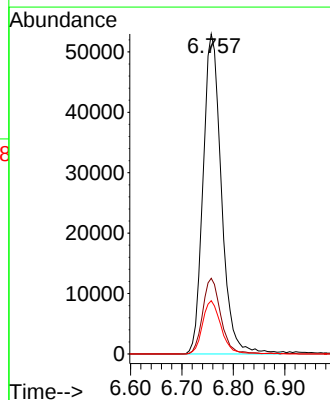
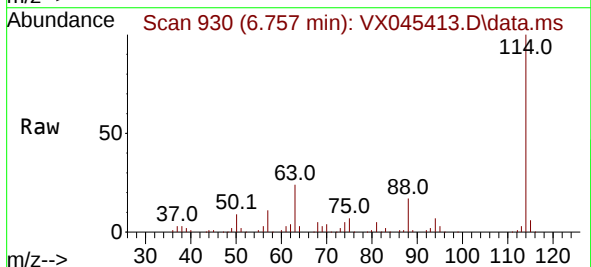
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP08-20250318

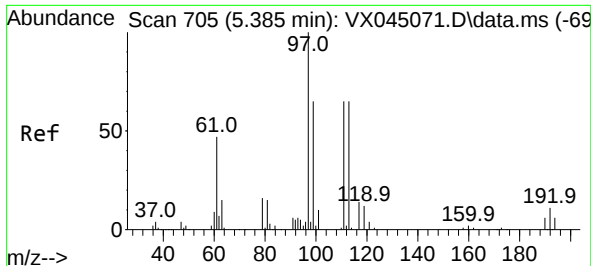
Tgt Ion: 65 Resp: 60693
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.757 min Scan# 930
 Delta R.T. 0.000 min
 Lab File: VX045413.D
 Acq: 24 Mar 2025 14:30

Tgt Ion: 114 Resp: 131180
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 41.8
 88 16.6 0.0 32.8





#35

Dibromofluoromethane

Concen: 52.002 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX045413.D

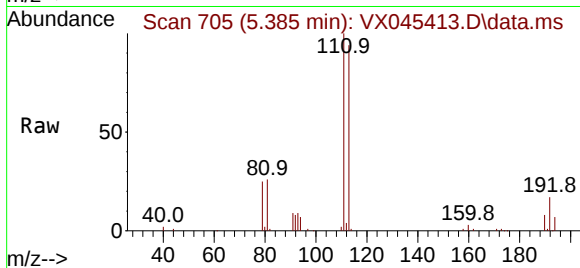
Acq: 24 Mar 2025 14:30

Instrument :

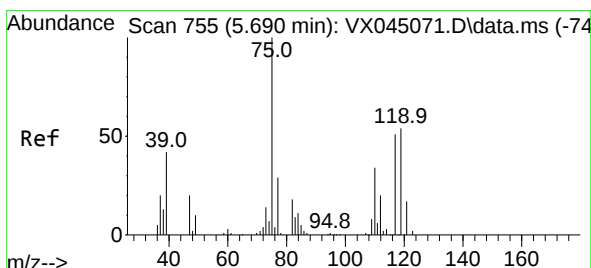
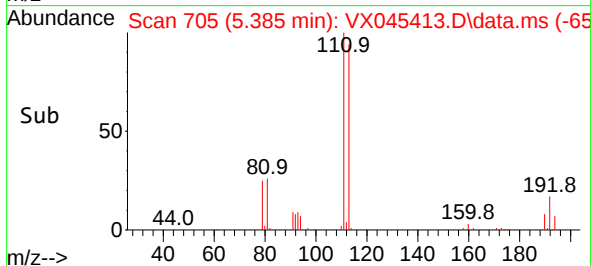
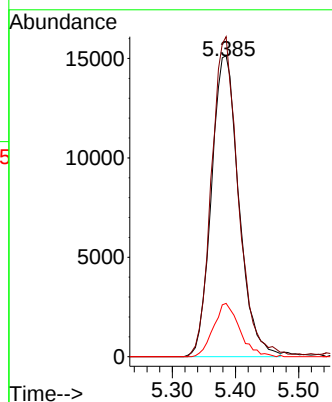
MSVOA_X

ClientSampleId :

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Tgt Ion:	113	Resp:	45614
Ion	Ratio	Lower	Upper
113	100		
111	104.1	81.8	122.6
192	16.9	14.3	21.5



#36

1,1-Dichloropropene

Concen: 5.400 ug/l

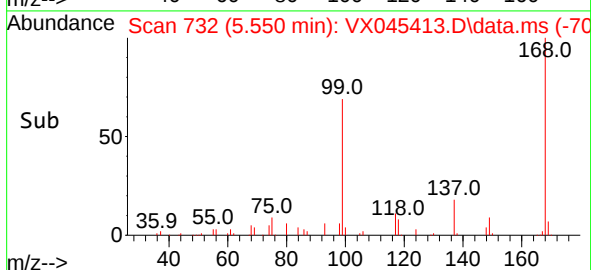
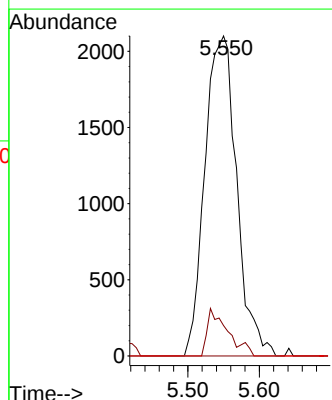
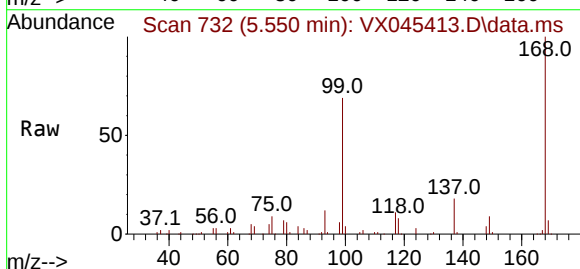
RT: 5.550 min Scan# 732

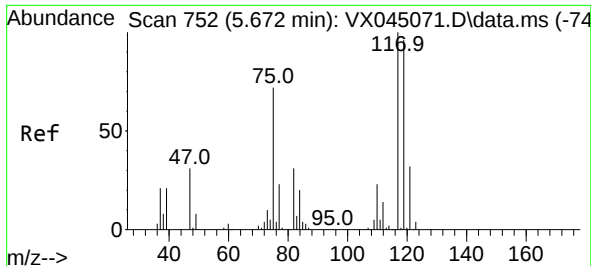
Delta R.T. -0.140 min

Lab File: VX045413.D

Acq: 24 Mar 2025 14:30

Tgt Ion:	75	Resp:	6496
Ion	Ratio	Lower	Upper
75	100		
110	9.6	16.9	50.6#
77	0.0	24.5	36.7#

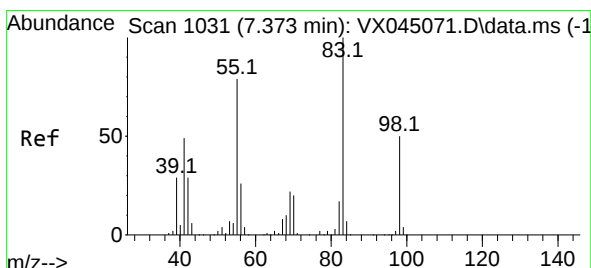
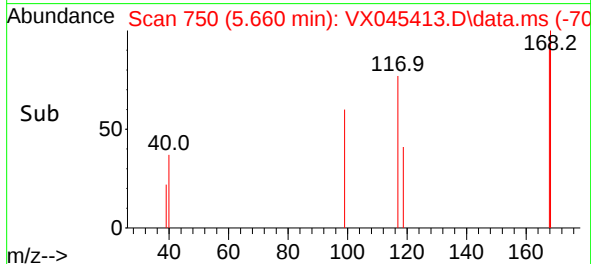
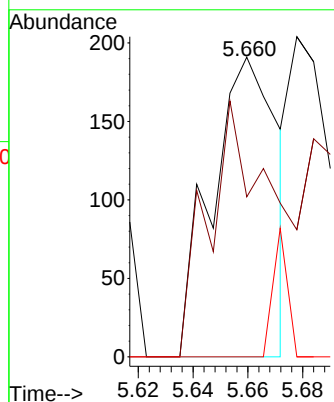
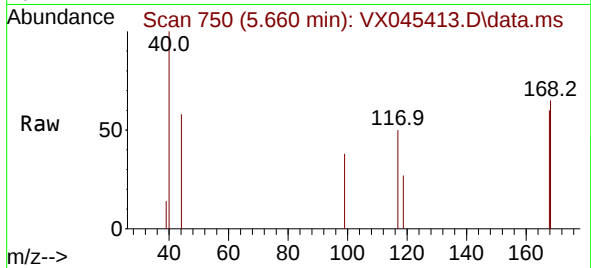




#38
Carbon Tetrachloride
Concen: 0.258 ug/l
RT: 5.660 min Scan# 711
Delta R.T. -0.012 min
Lab File: VX045413.D
Acq: 24 Mar 2025 14:30

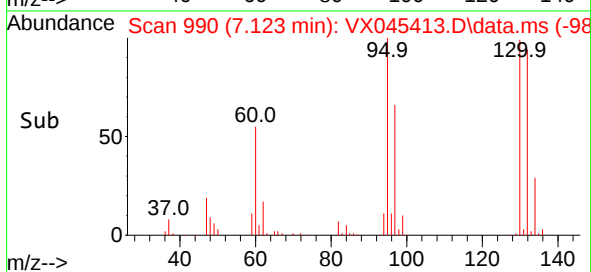
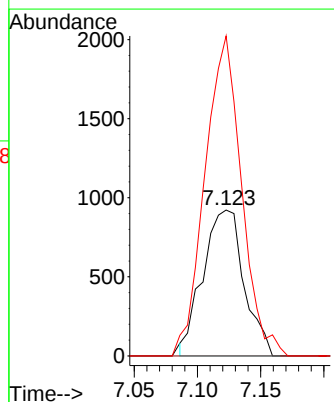
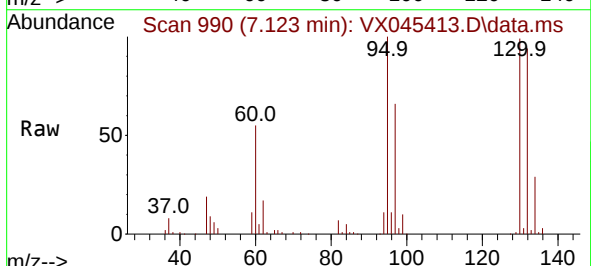
Instrument :
MSVOA_X
ClientSampleId :
DUP08-20250318

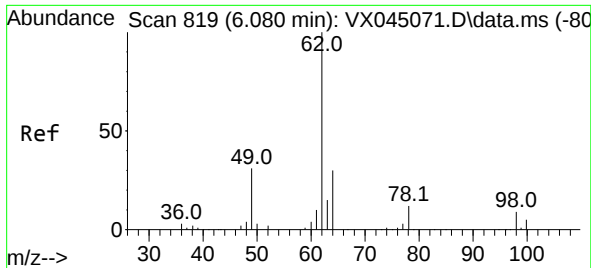
Tgt Ion:117 Resp: 315
Ion Ratio Lower Upper
117 100
119 53.4 76.7 115.1#
121 0.0 25.5 38.3#



#39
Methylcyclohexane
Concen: 1.445 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.250 min
Lab File: VX045413.D
Acq: 24 Mar 2025 14:30

Tgt Ion: 83 Resp: 2083
Ion Ratio Lower Upper
83 100
55 0.0 63.0 94.4#
98 213.9 39.7 59.5#

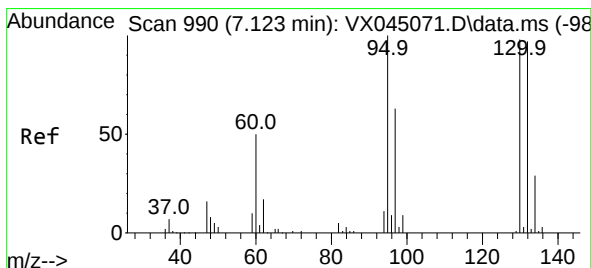
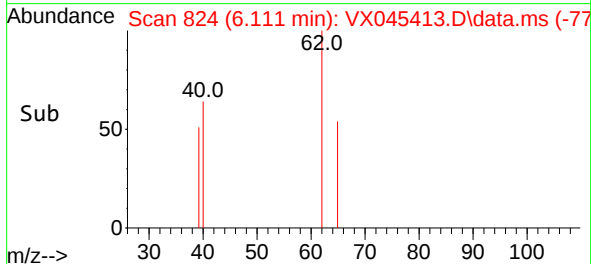
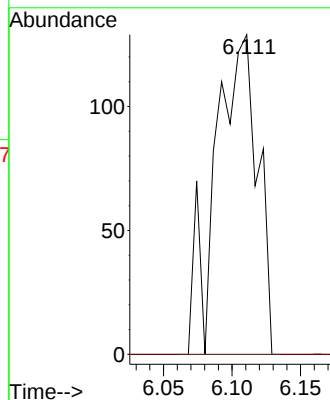
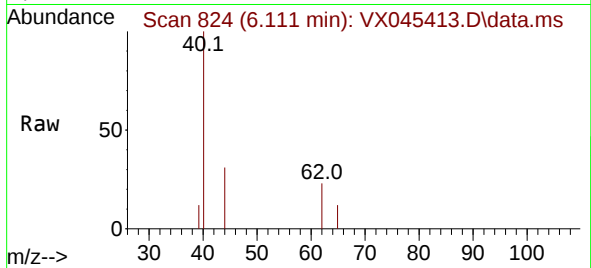




#42
1,2-Dichloroethane
Concen: 0.203 ug/l
RT: 6.111 min Scan# 819
Delta R.T. 0.030 min
Lab File: VX045413.D
Acq: 24 Mar 2025 14:30

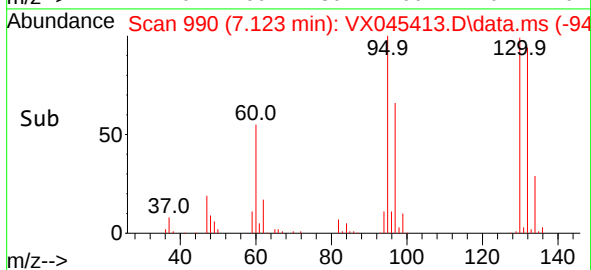
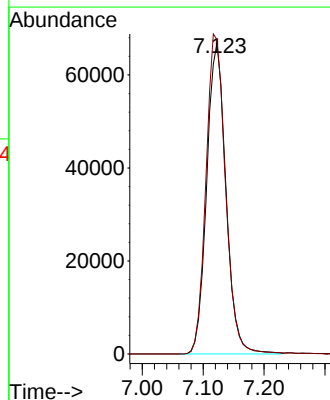
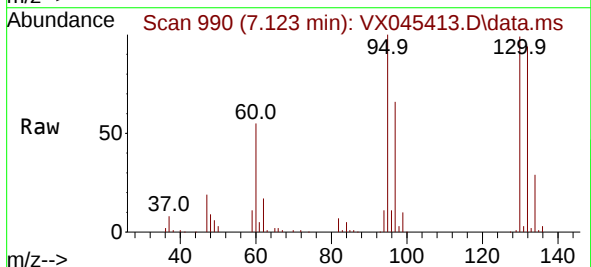
Instrument :
MSVOA_X
ClientSampleId :
DUP08-20250318

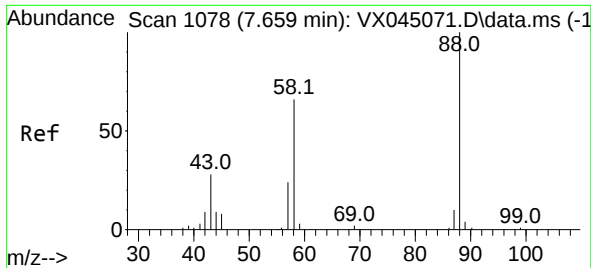
Tgt Ion: 62 Resp: 277
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.2



#44
Trichloroethene
Concen: 164.765 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX045413.D
Acq: 24 Mar 2025 14:30

Tgt Ion:130 Resp: 146962
Ion Ratio Lower Upper
130 100
95 101.1 0.0 205.0

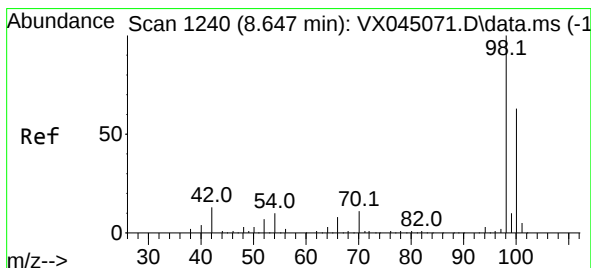
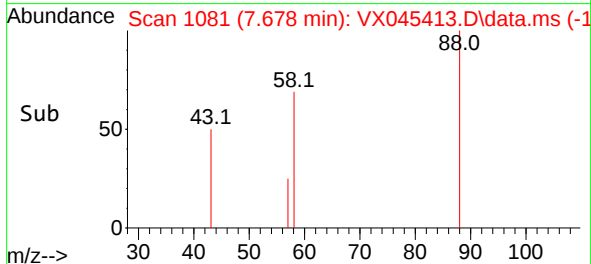
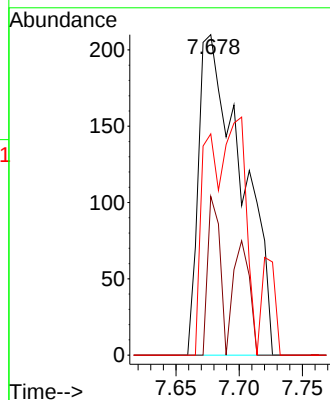
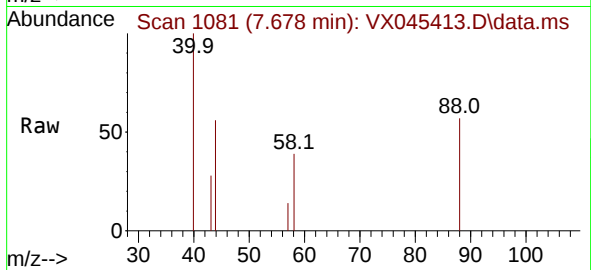




#49
1,4-Dioxane
Concen: 20.530 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. 0.018 min
Lab File: VX045413.D
Acq: 24 Mar 2025 14:30

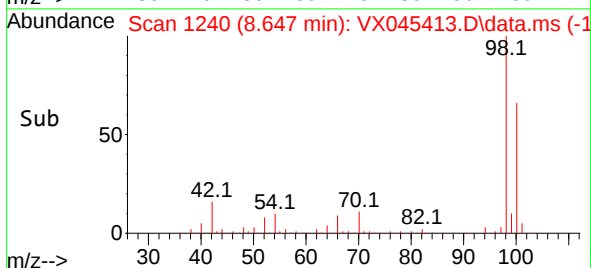
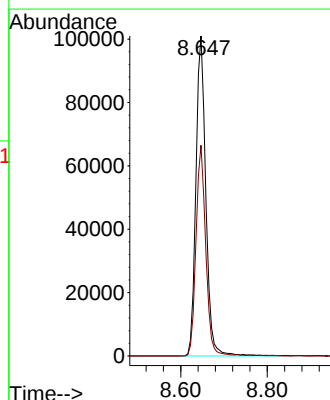
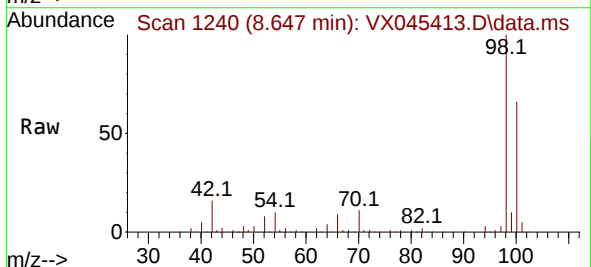
Instrument :
MSVOA_X
ClientSampleId :
DUP08-20250318

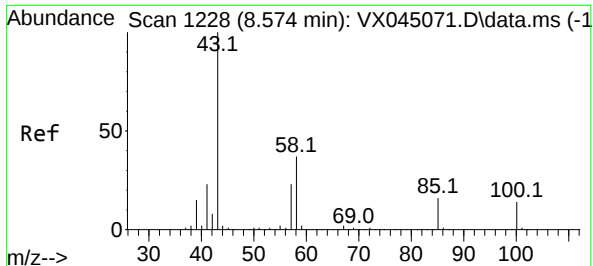
Tgt Ion: 88 Resp: 498
Ion Ratio Lower Upper
88 100
43 13.9 28.7 43.1#
58 28.7 55.8 83.8#



#50
Toluene-d8
Concen: 50.557 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045413.D
Acq: 24 Mar 2025 14:30

Tgt Ion: 98 Resp: 160772
Ion Ratio Lower Upper
98 100
100 64.3 52.0 78.0

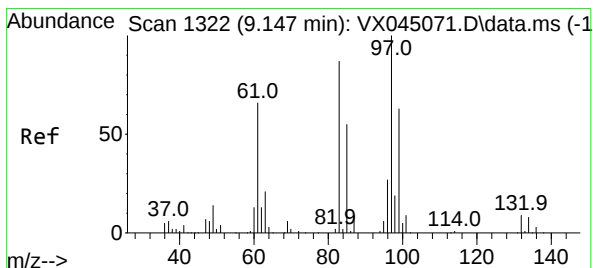
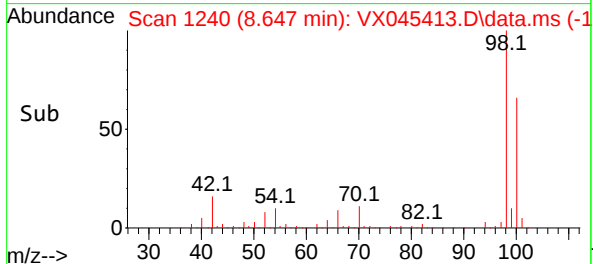
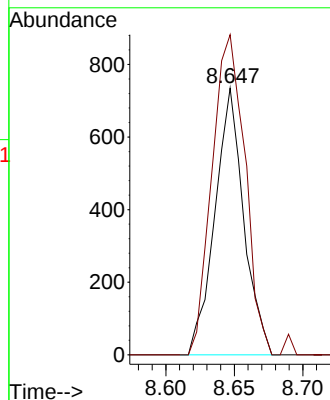
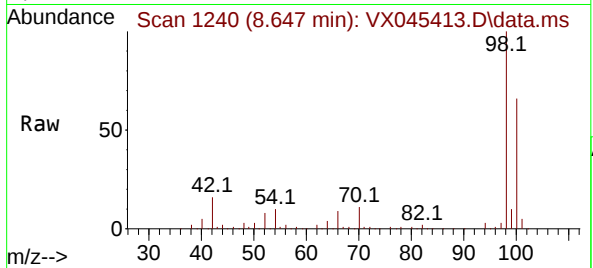




#51
4-Methyl-2-Pentanone
Concen: 0.699 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.073 min
Lab File: VX045413.D
Acq: 24 Mar 2025 14:30

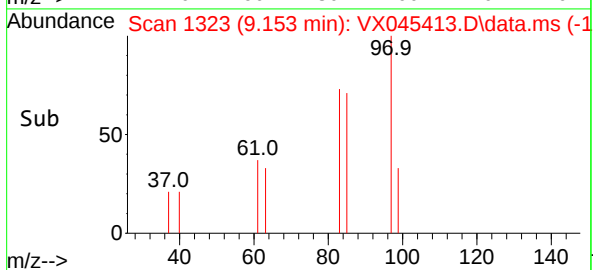
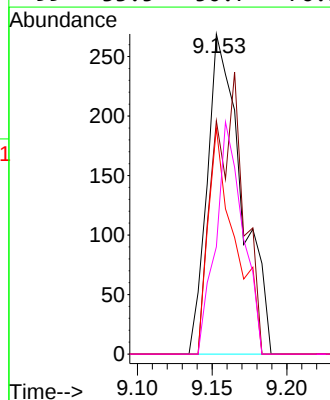
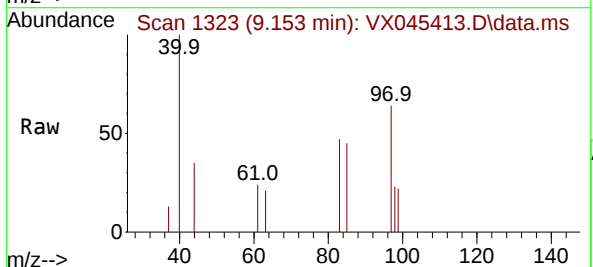
Instrument :
MSVOA_X
ClientSampleId :
DUP08-20250318

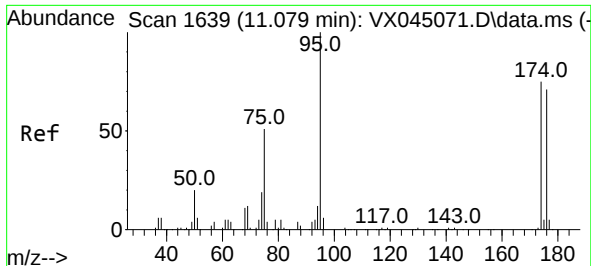
Tgt Ion: 43 Resp: 1076
Ion Ratio Lower Upper
43 100
58 137.2 29.2 43.8#



#55
1,1,2-Trichloroethane
Concen: 0.470 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. 0.006 min
Lab File: VX045413.D
Acq: 24 Mar 2025 14:30

Tgt Ion: 97 Resp: 431
Ion Ratio Lower Upper
97 100
83 72.9 69.4 104.2
85 70.6 44.1 66.1#
99 33.5 50.7 76.1#





#62

4-Bromofluorobenzene

Concen: 52.099 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045413.D

Acq: 24 Mar 2025 14:30

Instrument :

MSVOA_X

ClientSampleId :

DUP08-20250318

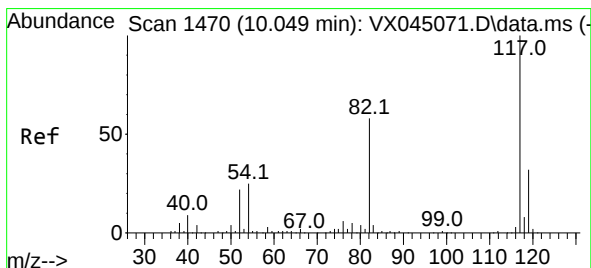
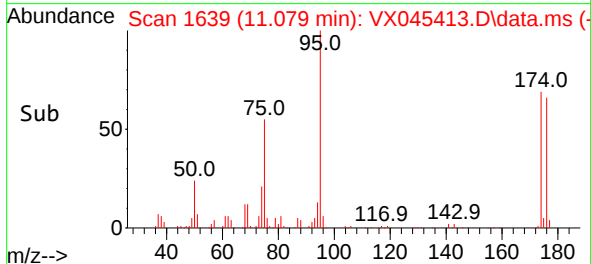
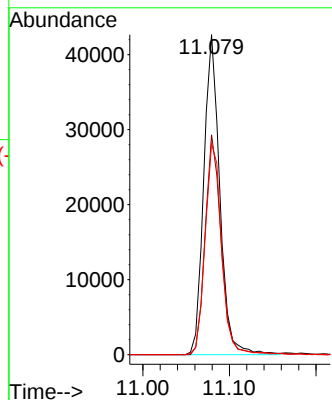
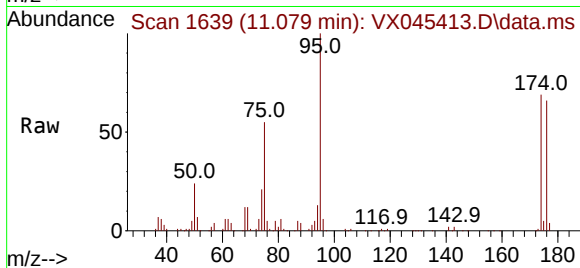
Tgt Ion: 95 Resp: 54900

Ion Ratio Lower Upper

95 100

174 68.9 0.0 148.2

176 67.6 0.0 141.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VX045413.D

Acq: 24 Mar 2025 14:30

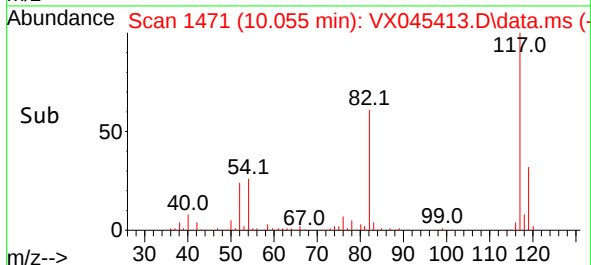
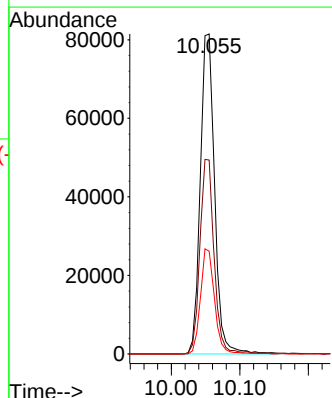
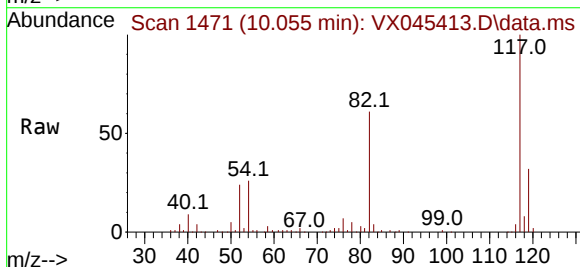
Tgt Ion: 117 Resp: 119040

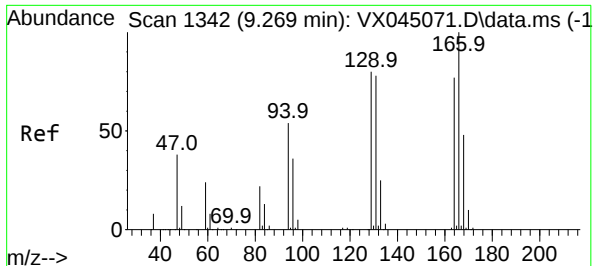
Ion Ratio Lower Upper

117 100

82 60.6 46.3 69.5

119 32.1 25.7 38.5

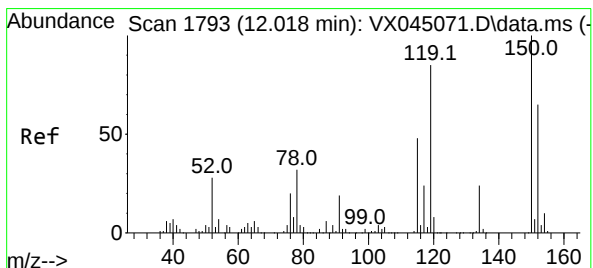
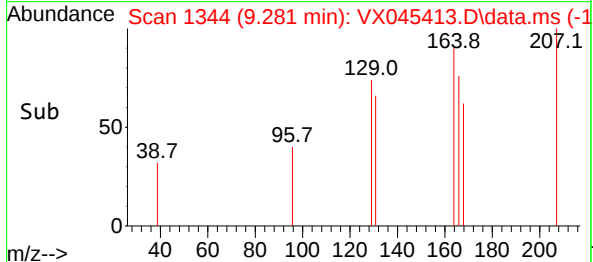
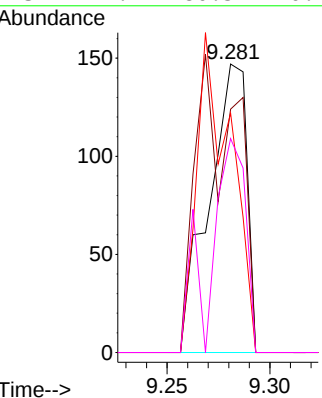
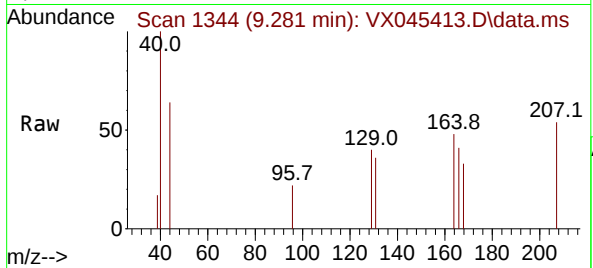




#64
Tetrachloroethene
Concen: 0.245 ug/l
RT: 9.281 min Scan# 11
Delta R.T. 0.012 min
Lab File: VX045413.D
Acq: 24 Mar 2025 14:30

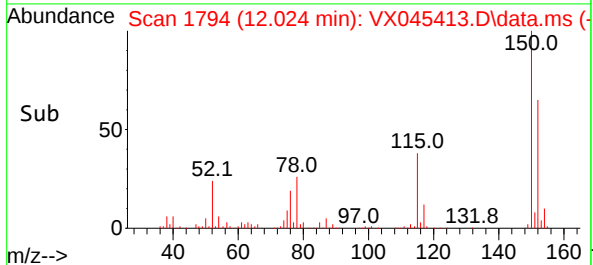
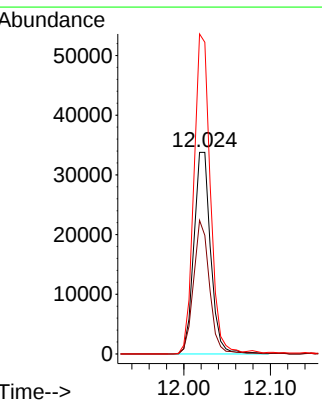
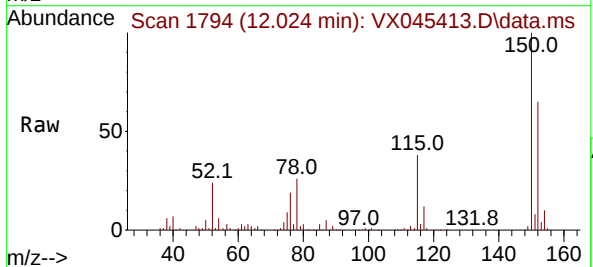
Instrument :
MSVOA_X
ClientSampleId :
DUP08-20250318

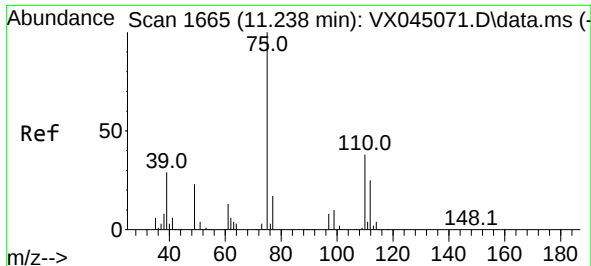
Tgt Ion:164 Resp: 187
Ion Ratio Lower Upper
164 100
166 84.4 103.6 155.4#
129 83.0 82.7 124.1
131 74.1 80.5 120.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX045413.D
Acq: 24 Mar 2025 14:30

Tgt Ion:152 Resp: 45448
Ion Ratio Lower Upper
152 100
115 62.9 44.2 132.6
150 155.0 0.0 349.0

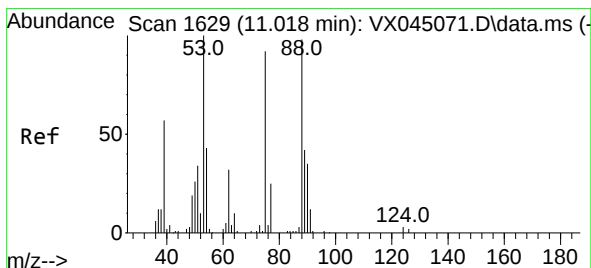
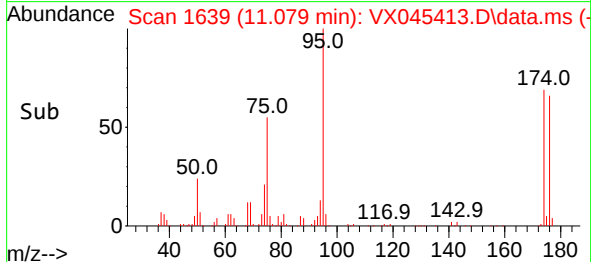
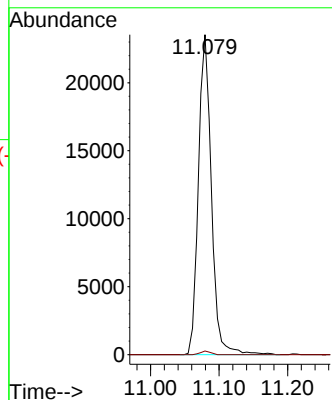
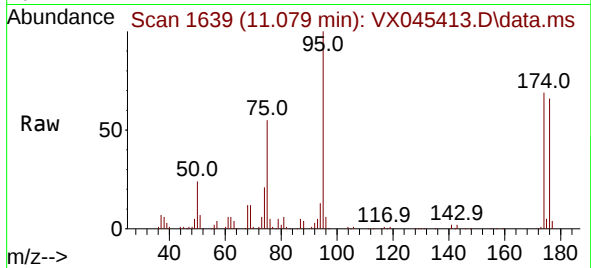




#76
1,2,3-Trichloropropane
Concen: 29.388 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX045413.D
Acq: 24 Mar 2025 14:30

Instrument :
MSVOA_X
ClientSampleId :
DUP08-20250318

Tgt Ion: 75 Resp: 31087
Ion Ratio Lower Upper
75 100
77 0.9 20.7 62.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 100.572 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX045413.D
Acq: 24 Mar 2025 14:30

Tgt Ion: 75 Resp: 31087
Ion Ratio Lower Upper
75 100
53 0.0 88.5 132.7#
89 0.0 36.2 54.4#

