

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032425\
 Data File : VX045419.D
 Acq On : 24 Mar 2025 16:50
 Operator : JC/MD
 Sample : Q1608-19
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D7-20250318

Quant Time: Mar 25 01:37:11 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

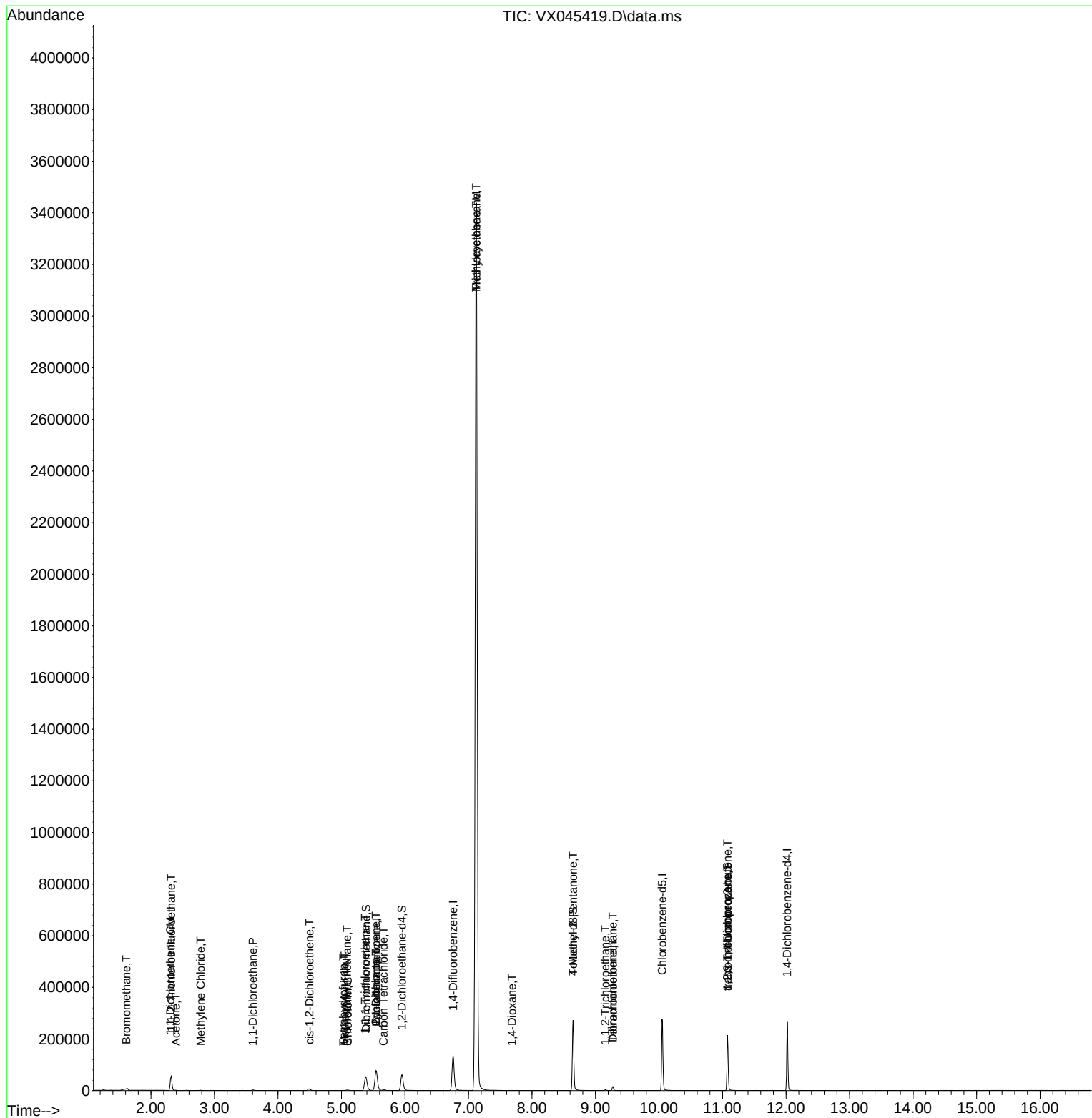
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	67443	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	131029	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	118374	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	49435	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	59857	55.796	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	111.600%
35) Dibromofluoromethane	5.385	113	46105	52.622	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.240%
50) Toluene-d8	8.647	98	156497	49.269	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.540%
62) 4-Bromofluorobenzene	11.079	95	54851	52.112	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	104.220%
Target Compounds						Qvalue
5) Bromomethane	1.612	94	101	0.249	ug/l #	3
9) 1,1,2-Trichlorotrifluo...	2.319	101	16113	20.556	ug/l	98
12) 1,1-Dichloroethene	2.307	96	5888	7.105	ug/l	94
16) Acetone	2.392	43	890	1.788	ug/l	94
20) Methylene Chloride	2.782	84	427	0.433	ug/l #	82
24) 1,1-Dichloroethane	3.605	63	2870	1.707	ug/l	94
27) cis-1,2-Dichloroethene	4.495	96	3639	3.601	ug/l	96
28) Bromochloromethane	5.087	49	204	0.255	ug/l #	17
29) Tetrahydrofuran	5.032	42	160	0.318	ug/l #	34
30) Chloroform	5.099	83	2305	1.380	ug/l #	72
31) Cyclohexane	5.544	56	1983	1.359	ug/l #	44
32) 1,1,1-Trichloroethane	5.373	97	373	0.276	ug/l #	38
36) 1,1-Dichloropropene	5.544	75	6354	5.288	ug/l #	50
38) Carbon Tetrachloride	5.660	117	761	0.624	ug/l #	94
39) Methylcyclohexane	7.123	83	17740	12.322	ug/l #	1
41) Methacrylonitrile	5.050	41	259	0.309	ug/l #	50
44) Trichloroethene	7.123	130	1224885	1374.847	ug/l	95
49) 1,4-Dioxane	7.684	88	195	8.048	ug/l #	71
51) 4-Methyl-2-Pentanone	8.647	43	948	0.617	ug/l #	1
55) 1,1,2-Trichloroethane	9.153	97	835	0.911	ug/l #	90
60) Dibromochloromethane	9.275	129	2992	3.122	ug/l #	11
64) Tetrachloroethene	9.275	164	2671	3.523	ug/l	95
76) 1,2,3-Trichloropropane	11.079	75	31763	27.606	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	31763	94.471	ug/l #	6

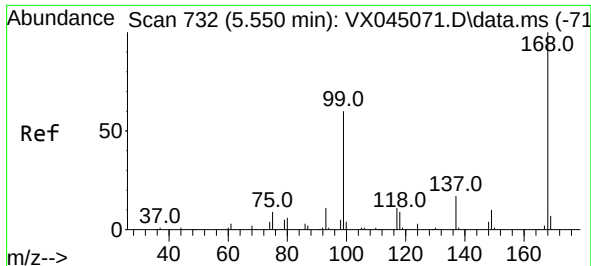
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Feb 28 06:45:16 2025
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#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.000 min

Lab File: VX045419.D

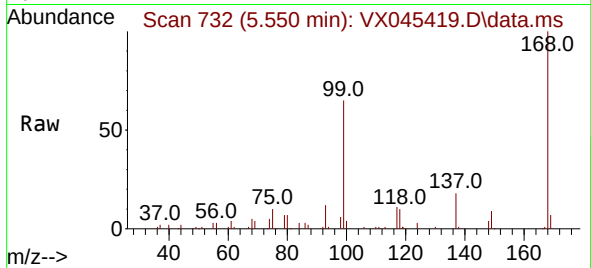
Acq: 24 Mar 2025 16:50

Instrument :

MSVOA_X

ClientSampleId :

RE132D7-20250318

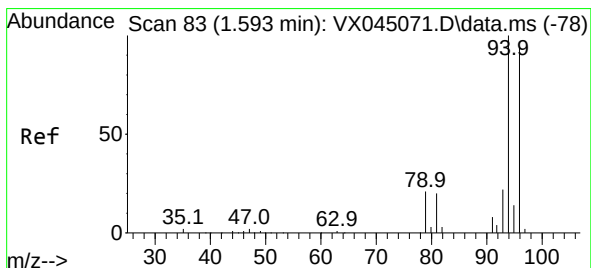
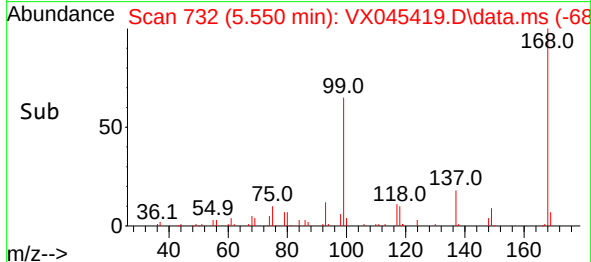
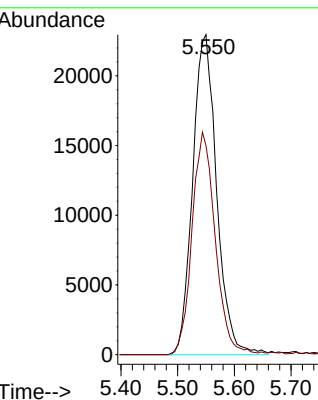


Tgt Ion:168 Resp: 67443

Ion Ratio Lower Upper

168 100

99 65.3 48.2 72.4



#5

Bromomethane

Concen: 0.249 ug/l

RT: 1.612 min Scan# 86

Delta R.T. 0.018 min

Lab File: VX045419.D

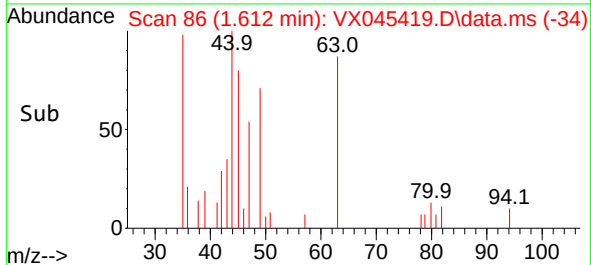
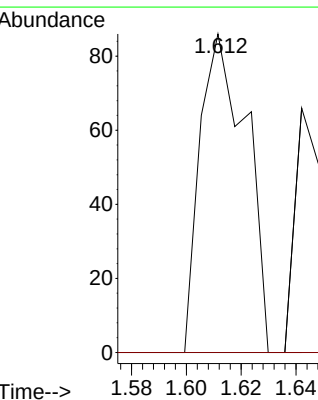
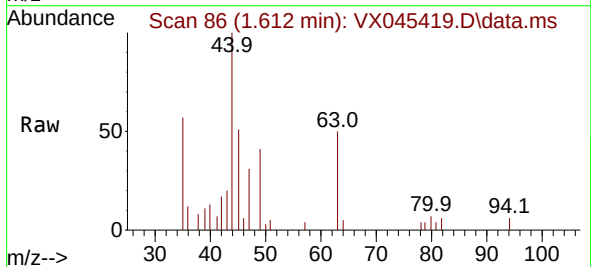
Acq: 24 Mar 2025 16:50

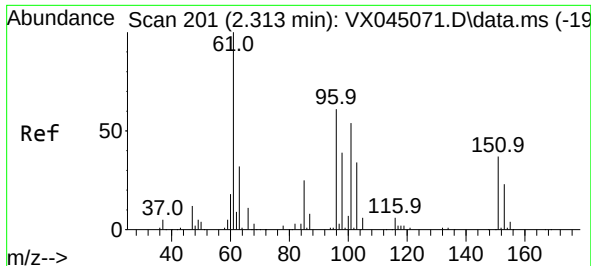
Tgt Ion: 94 Resp: 101

Ion Ratio Lower Upper

94 100

96 0.0 75.0 112.4#

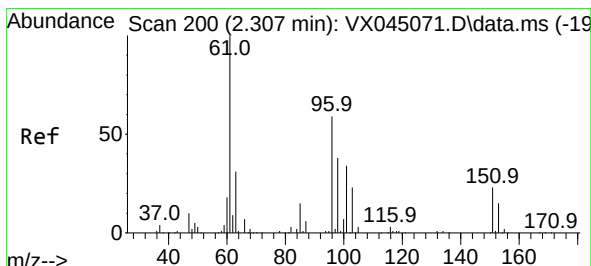
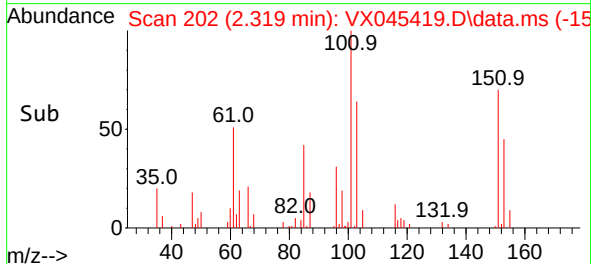
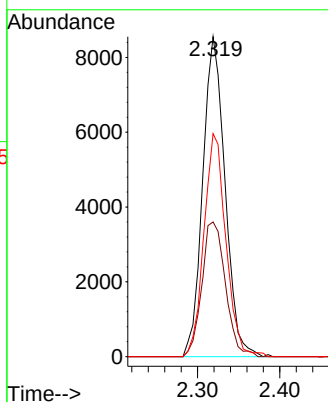
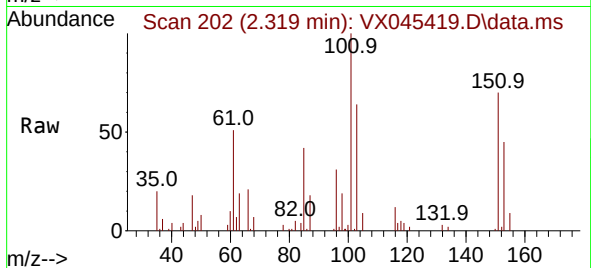




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 20.556 ug/l
 RT: 2.319 min Scan# 201
 Delta R.T. 0.006 min
 Lab File: VX045419.D
 Acq: 24 Mar 2025 16:50

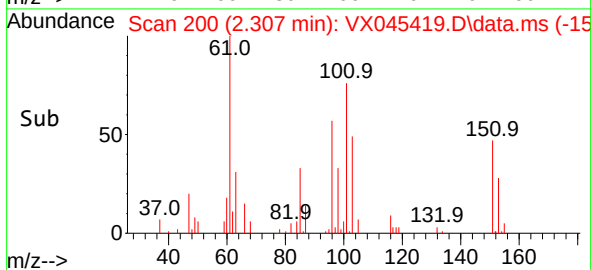
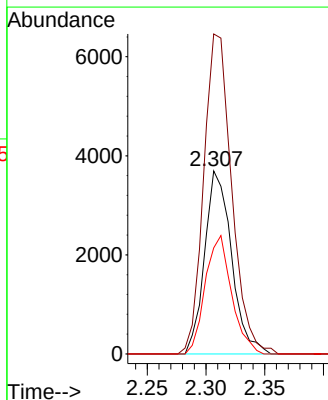
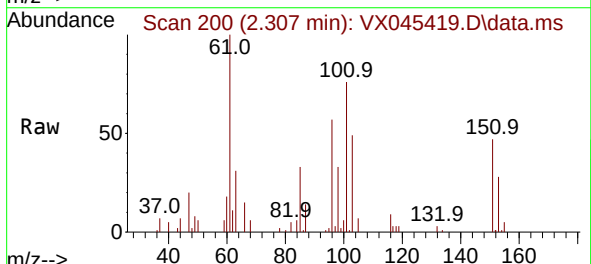
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D7-20250318

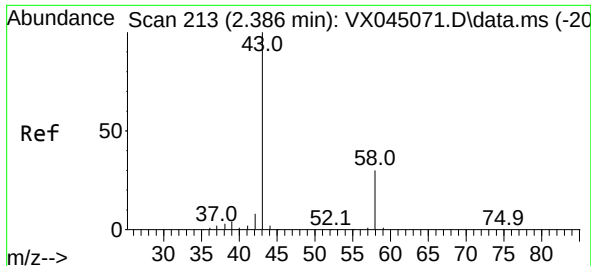
Tgt Ion:	101	Resp:	16113
Ion	Ratio	Lower	Upper
101	100		
85	44.5	36.2	54.4
151	68.8	56.4	84.6



#12
 1,1-Dichloroethene
 Concen: 7.105 ug/l
 RT: 2.307 min Scan# 200
 Delta R.T. 0.000 min
 Lab File: VX045419.D
 Acq: 24 Mar 2025 16:50

Tgt Ion:	96	Resp:	5888
Ion	Ratio	Lower	Upper
96	100		
61	174.8	134.6	202.0
98	57.9	51.0	76.6





#16

Acetone

Concen: 1.788 ug/l

RT: 2.392 min Scan# 213

Delta R.T. 0.006 min

Lab File: VX045419.D

Acq: 24 Mar 2025 16:50

Instrument :

MSVOA_X

ClientSampleId :

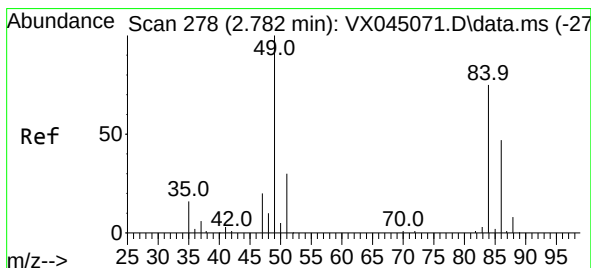
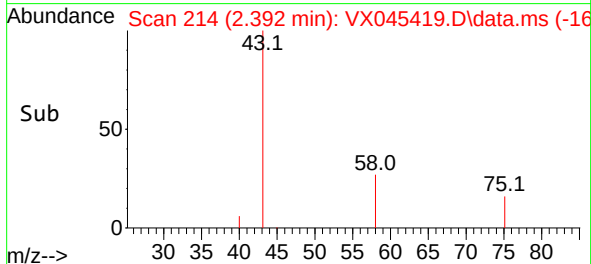
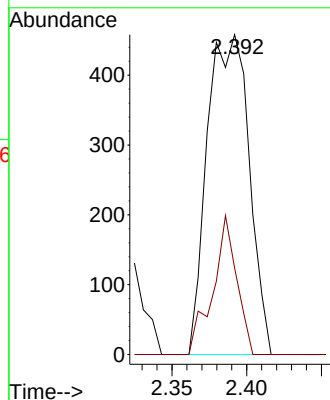
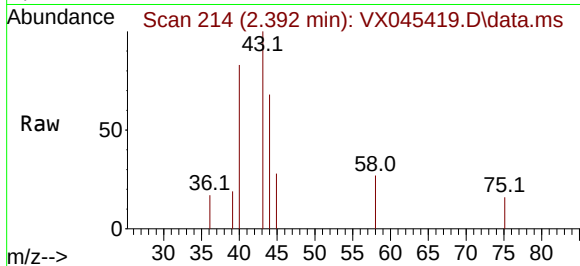
RE132D7-20250318

Tgt Ion: 43 Resp: 890

Ion Ratio Lower Upper

43 100

58 27.1 24.2 36.4



#20

Methylene Chloride

Concen: 0.433 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX045419.D

Acq: 24 Mar 2025 16:50

Tgt Ion: 84 Resp: 427

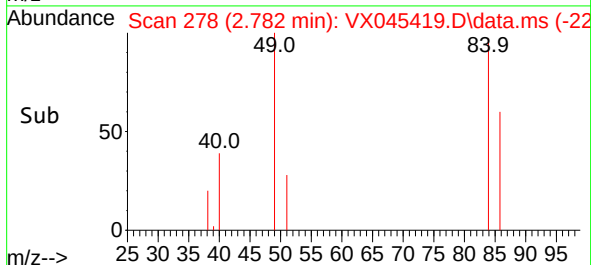
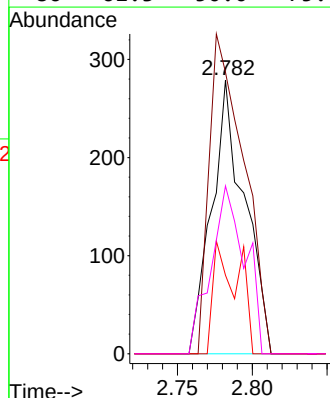
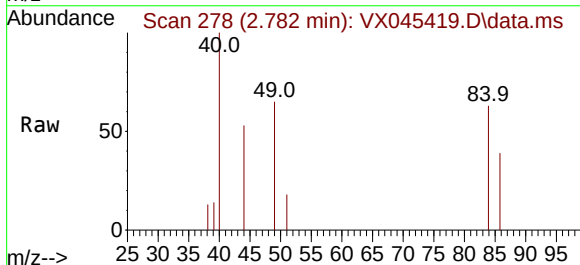
Ion Ratio Lower Upper

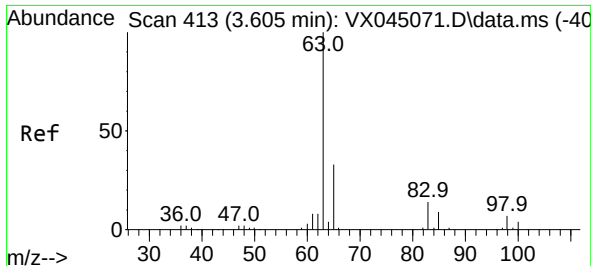
84 100

49 102.9 106.5 159.7#

51 28.7 32.1 48.1#

86 61.3 50.0 75.0

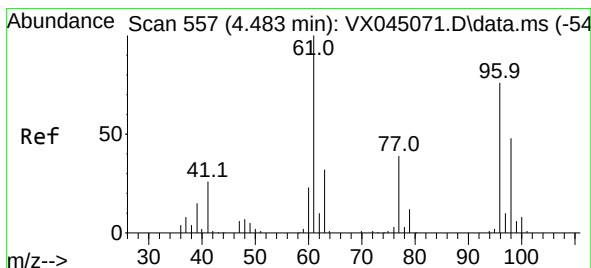
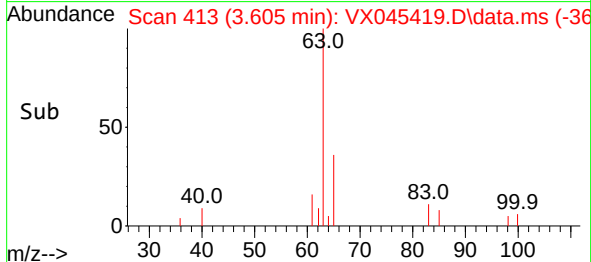
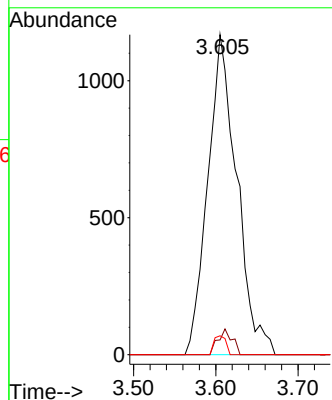
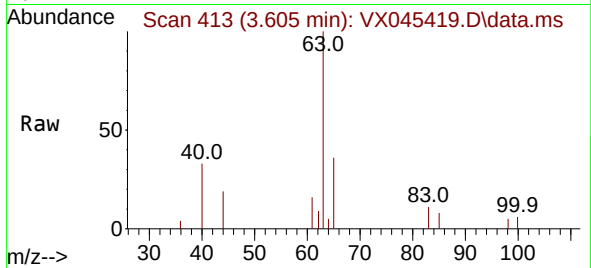




#24
 1,1-Dichloroethane
 Concen: 1.707 ug/l
 RT: 3.605 min Scan# 413
 Delta R.T. 0.000 min
 Lab File: VX045419.D
 Acq: 24 Mar 2025 16:50

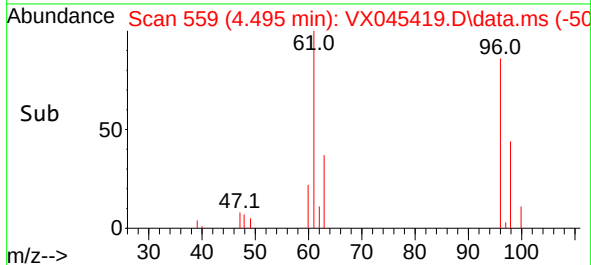
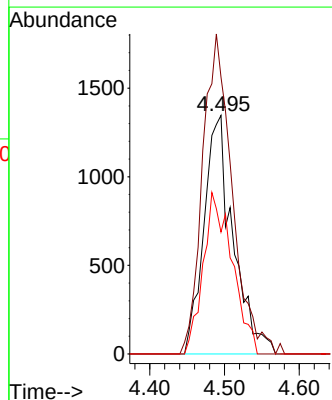
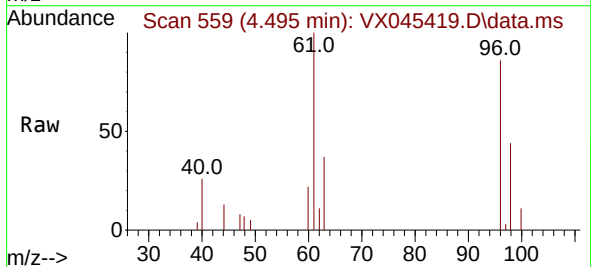
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D7-20250318

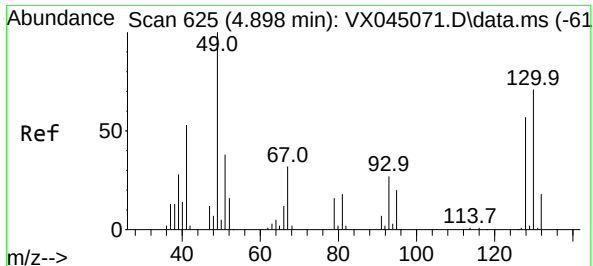
Tgt Ion:	63	Resp:	2870
Ion	Ratio	Lower	Upper
63	100		
98	4.6	3.4	10.2
100	5.9	2.1	6.5



#27
 cis-1,2-Dichloroethene
 Concen: 3.601 ug/l
 RT: 4.495 min Scan# 559
 Delta R.T. 0.012 min
 Lab File: VX045419.D
 Acq: 24 Mar 2025 16:50

Tgt Ion:	96	Resp:	3639
Ion	Ratio	Lower	Upper
96	100		
61	137.0	0.0	283.2
98	67.5	0.0	128.0

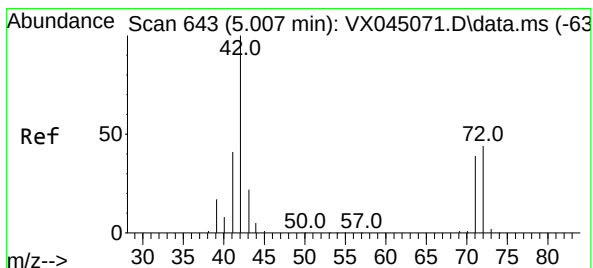
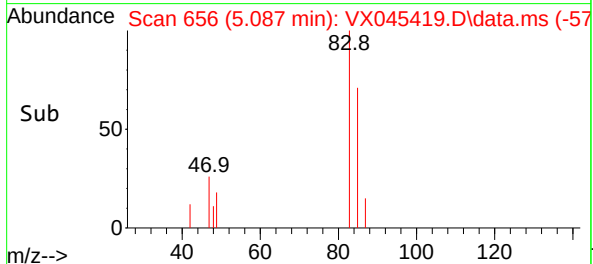
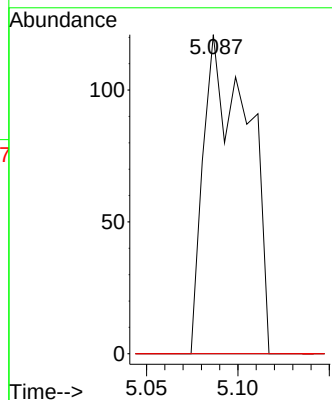
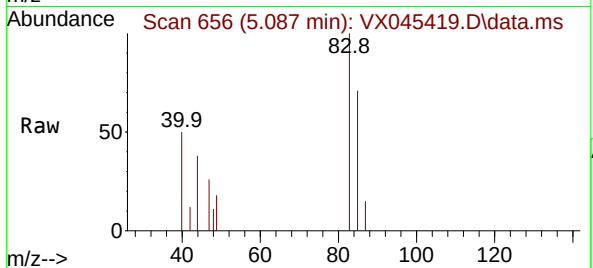




#28
Bromochloromethane
Concen: 0.255 ug/l
RT: 5.087 min Scan# 61
Delta R.T. 0.189 min
Lab File: VX045419.D
Acq: 24 Mar 2025 16:50

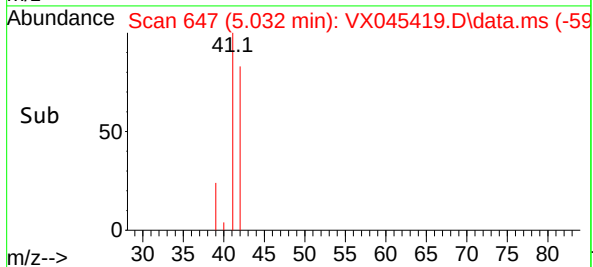
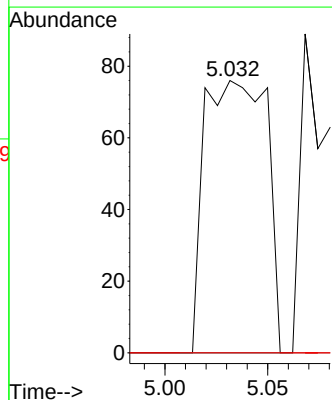
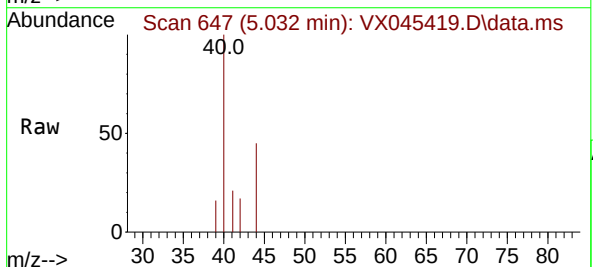
Instrument :
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ClientSampleId :
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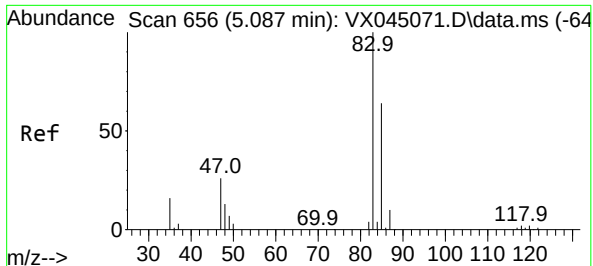
Tgt Ion: 49 Resp: 204
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.4
130 0.0 56.1 84.1#



#29
Tetrahydrofuran
Concen: 0.318 ug/l
RT: 5.032 min Scan# 647
Delta R.T. 0.024 min
Lab File: VX045419.D
Acq: 24 Mar 2025 16:50

Tgt Ion: 42 Resp: 160
Ion Ratio Lower Upper
42 100
72 0.0 34.1 51.1#
71 0.0 31.4 47.0#





#30

Chloroform

Concen: 1.380 ug/l

RT: 5.099 min Scan# 61

Delta R.T. 0.012 min

Lab File: VX045419.D

Acq: 24 Mar 2025 16:50

Instrument :

MSVOA_X

ClientSampleId :

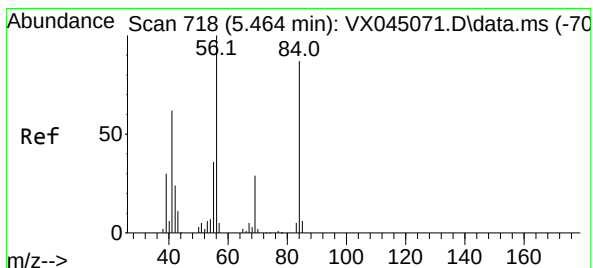
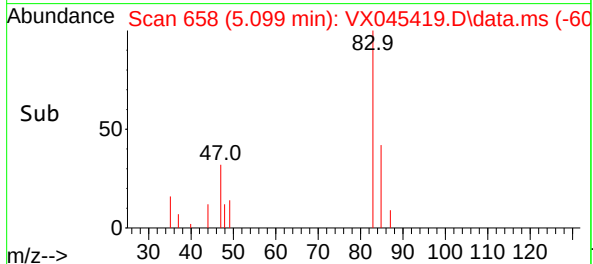
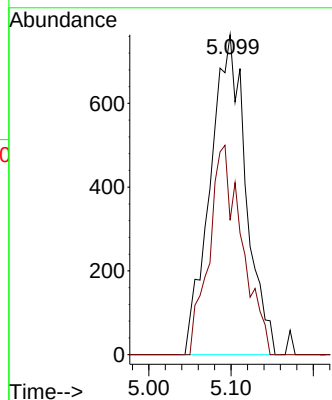
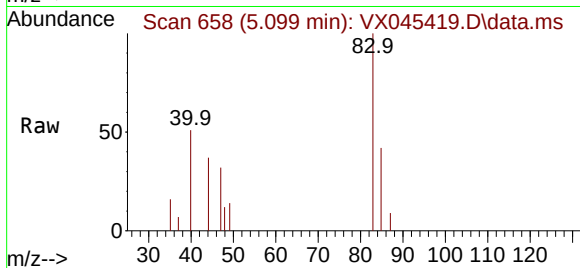
RE132D7-20250318

Tgt Ion: 83 Resp: 2305

Ion Ratio Lower Upper

83 100

85 42.0 51.4 77.2#



#31

Cyclohexane

Concen: 1.359 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.079 min

Lab File: VX045419.D

Acq: 24 Mar 2025 16:50

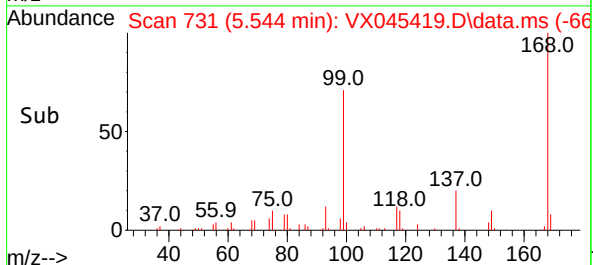
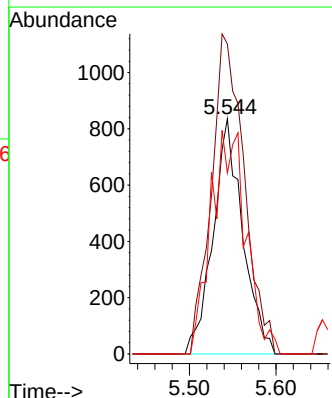
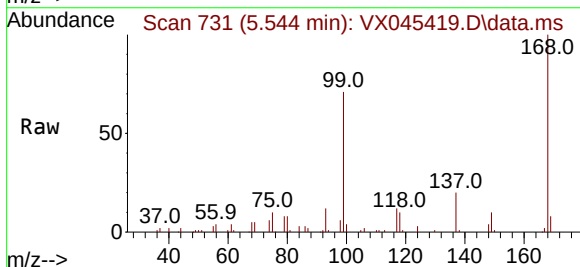
Tgt Ion: 56 Resp: 1983

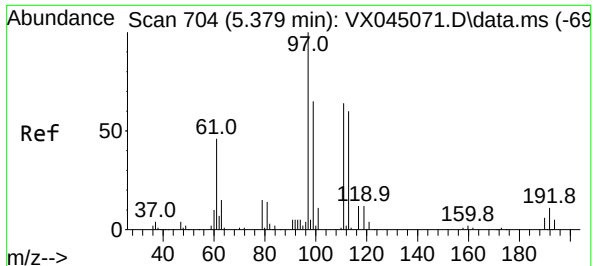
Ion Ratio Lower Upper

56 100

69 131.7 23.4 35.2#

84 76.9 69.4 104.2

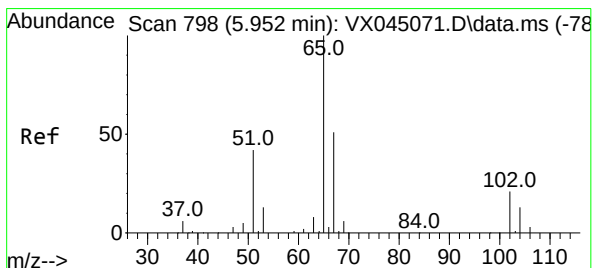
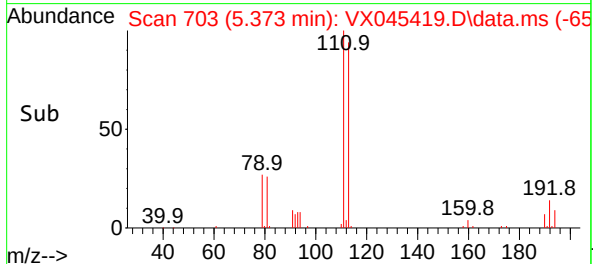
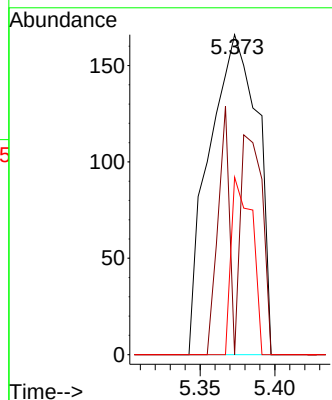
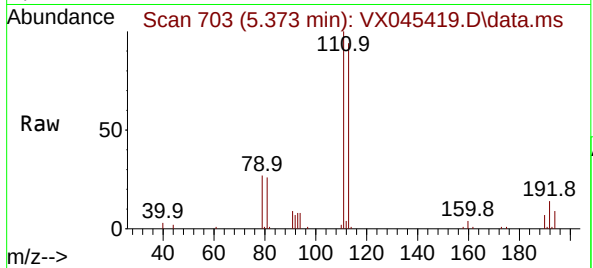




#32
 1,1,1-Trichloroethane
 Concen: 0.276 ug/l
 RT: 5.373 min Scan# 703
 Delta R.T. -0.006 min
 Lab File: VX045419.D
 Acq: 24 Mar 2025 16:50

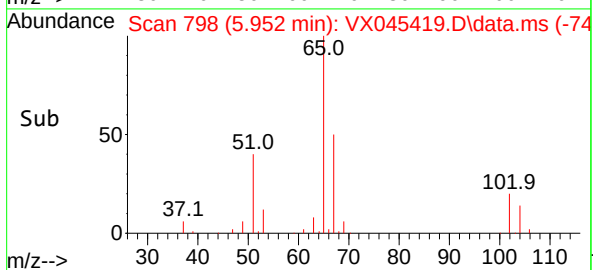
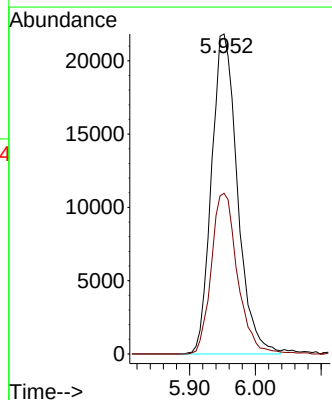
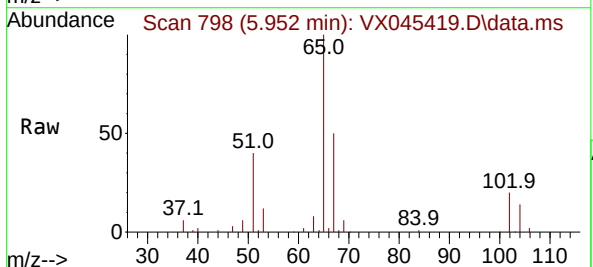
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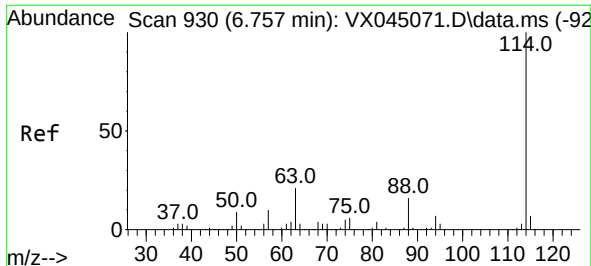
Tgt Ion: 97 Resp: 373
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.6 77.4#
 61 23.9 38.4 57.6#



#33
 1,2-Dichloroethane-d4
 Concen: 55.796 ug/l
 RT: 5.952 min Scan# 798
 Delta R.T. 0.000 min
 Lab File: VX045419.D
 Acq: 24 Mar 2025 16:50

Tgt Ion: 65 Resp: 59857
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 106.2

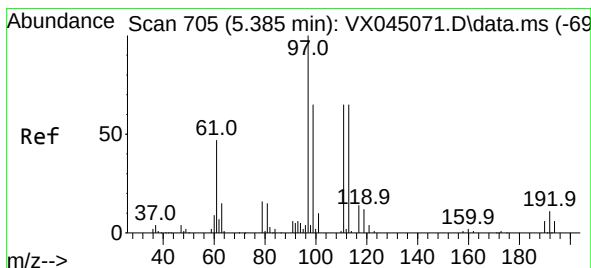
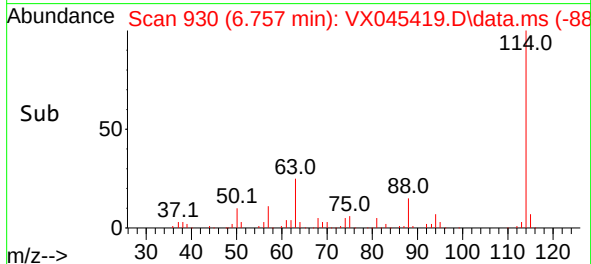
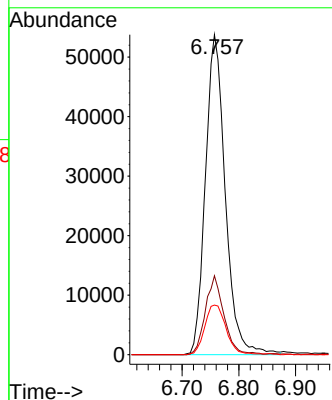
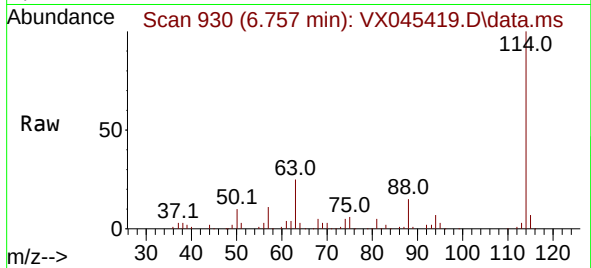




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX045419.D
Acq: 24 Mar 2025 16:50

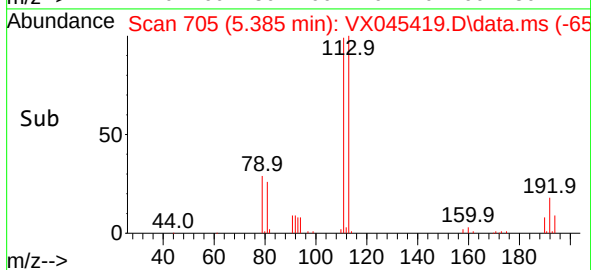
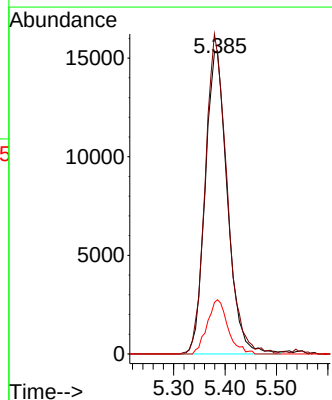
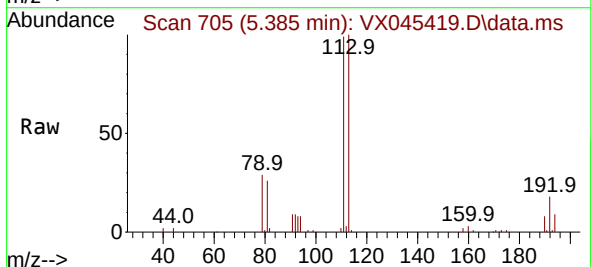
Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20250318

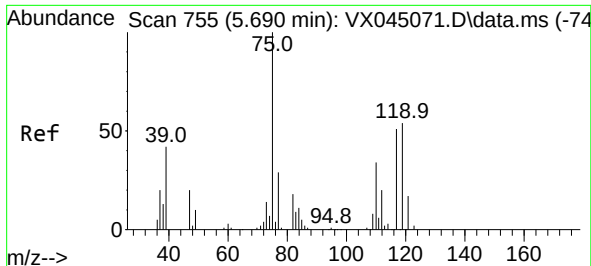
Tgt Ion:114 Resp: 131029
Ion Ratio Lower Upper
114 100
63 24.6 0.0 41.8
88 15.5 0.0 32.8



#35
Dibromofluoromethane
Concen: 52.622 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX045419.D
Acq: 24 Mar 2025 16:50

Tgt Ion:113 Resp: 46105
Ion Ratio Lower Upper
113 100
111 103.4 81.8 122.6
192 16.6 14.3 21.5





#36

1,1-Dichloropropene

Concen: 5.288 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.146 min

Lab File: VX045419.D

Acq: 24 Mar 2025 16:50

Instrument :

MSVOA_X

ClientSampleId :

RE132D7-20250318

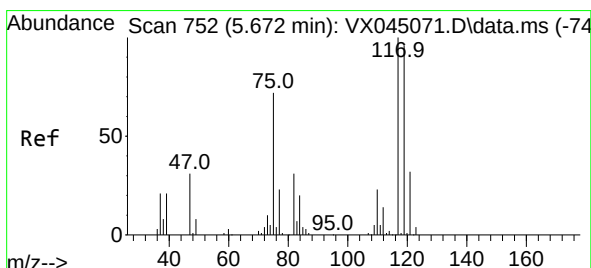
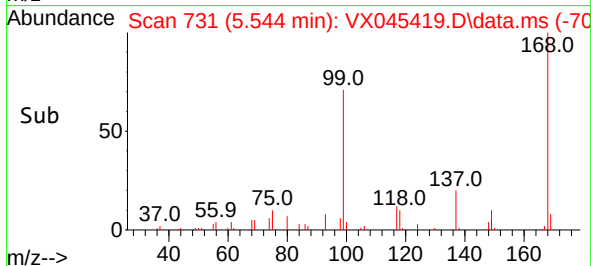
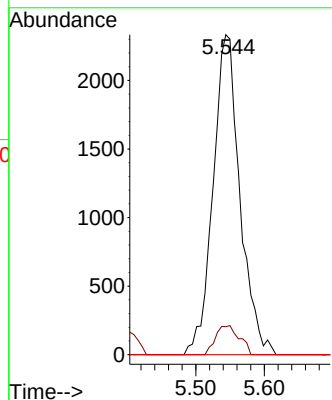
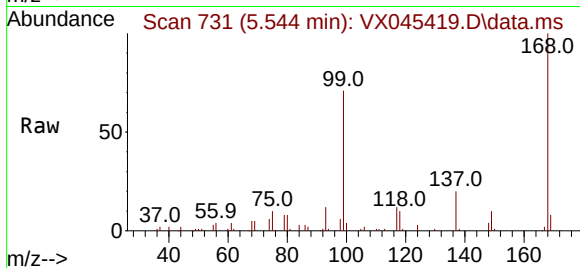
Tgt Ion: 75 Resp: 6354

Ion Ratio Lower Upper

75 100

110 8.0 16.9 50.6#

77 0.0 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 0.624 ug/l

RT: 5.660 min Scan# 750

Delta R.T. -0.012 min

Lab File: VX045419.D

Acq: 24 Mar 2025 16:50

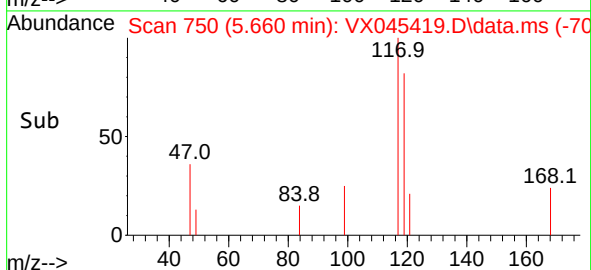
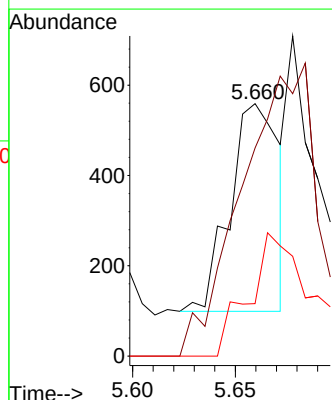
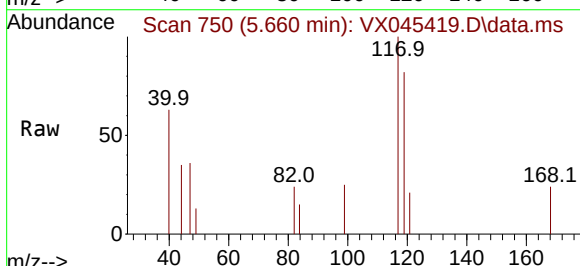
Tgt Ion: 117 Resp: 761

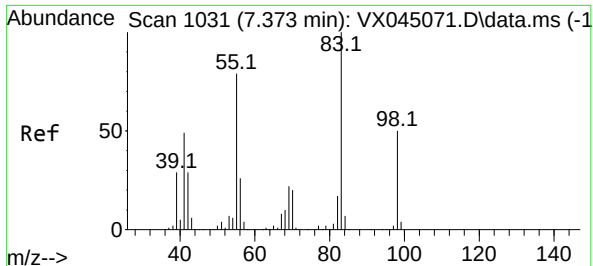
Ion Ratio Lower Upper

117 100

119 100.2 76.7 115.1

121 25.2 25.5 38.3#

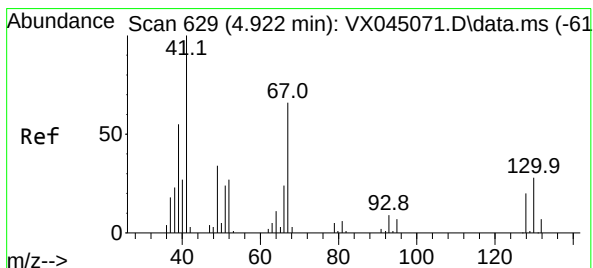
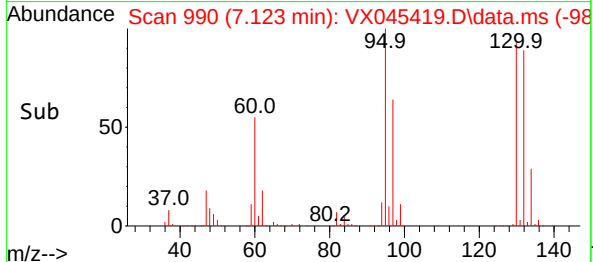
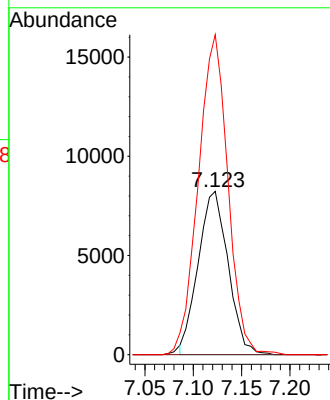
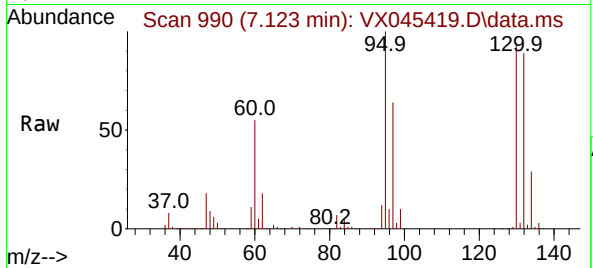




#39
Methylcyclohexane
Concen: 12.322 ug/l
RT: 7.123 min Scan# 91
Delta R.T. -0.250 min
Lab File: VX045419.D
Acq: 24 Mar 2025 16:50

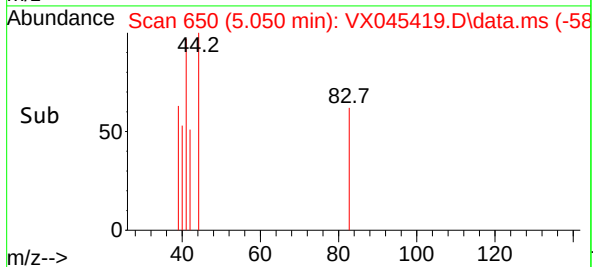
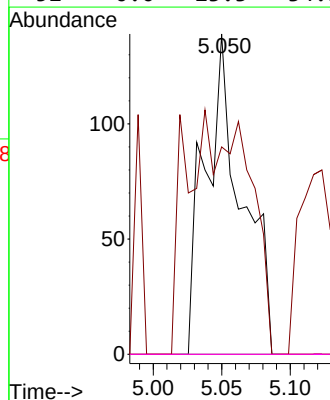
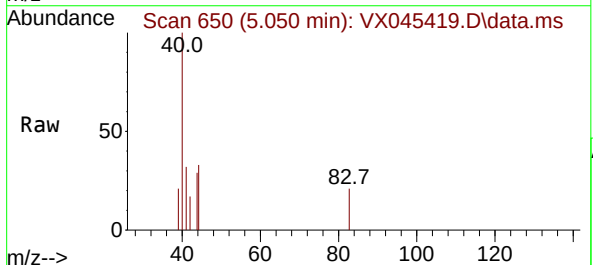
Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20250318

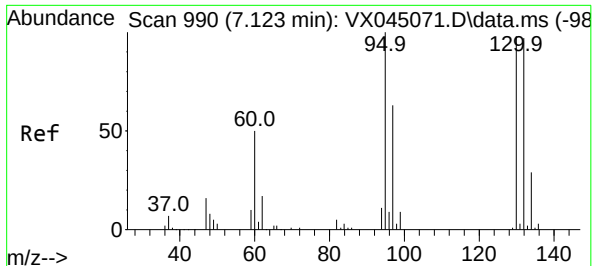
Tgt Ion: 83 Resp: 17740
Ion Ratio Lower Upper
83 100
55 0.0 63.0 94.4#
98 195.1 39.7 59.5#



#41
Methacrylonitrile
Concen: 0.309 ug/l
RT: 5.050 min Scan# 650
Delta R.T. 0.128 min
Lab File: VX045419.D
Acq: 24 Mar 2025 16:50

Tgt Ion: 41 Resp: 259
Ion Ratio Lower Upper
41 100
39 60.6 44.6 67.0
67 0.0 53.9 80.9#
52 0.0 23.3 34.9#

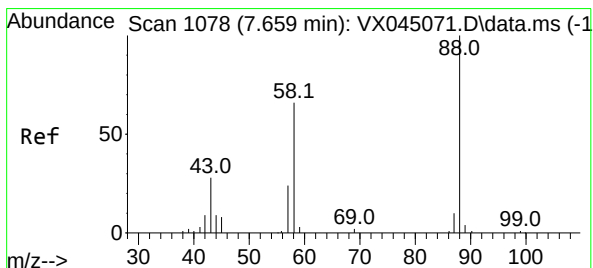
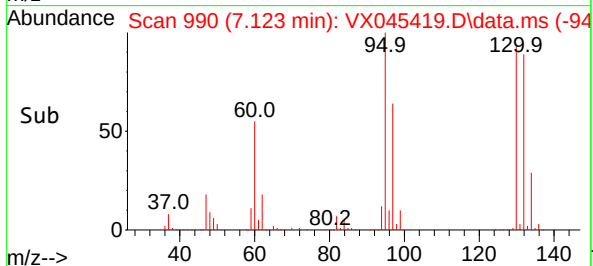
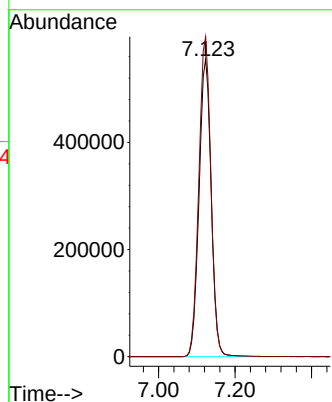
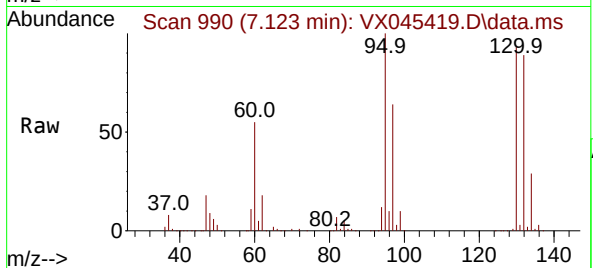




#44
Trichloroethene
Concen: 1374.847 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX045419.D
Acq: 24 Mar 2025 16:50

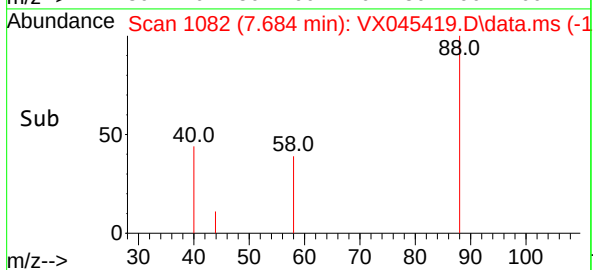
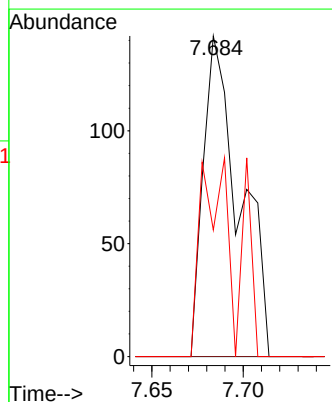
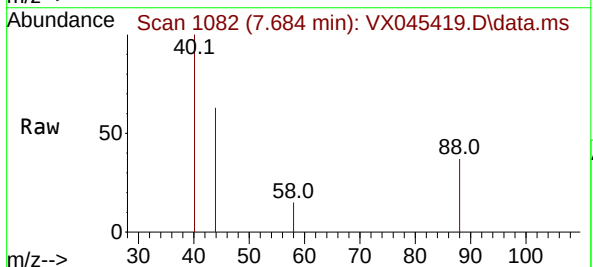
Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20250318

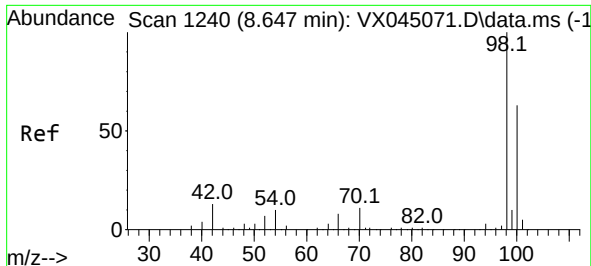
Tgt Ion:130 Resp: 1224885
Ion Ratio Lower Upper
130 100
95 107.5 0.0 205.0



#49
1,4-Dioxane
Concen: 8.048 ug/l
RT: 7.684 min Scan# 1082
Delta R.T. 0.024 min
Lab File: VX045419.D
Acq: 24 Mar 2025 16:50

Tgt Ion: 88 Resp: 195
Ion Ratio Lower Upper
88 100
43 0.0 28.7 43.1#
58 59.5 55.8 83.8

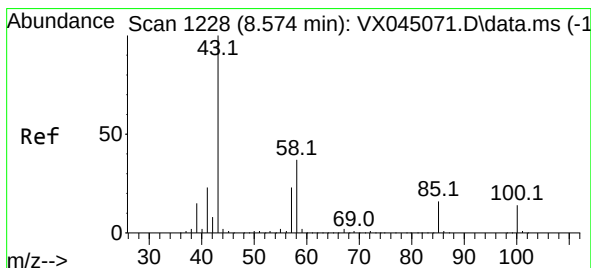
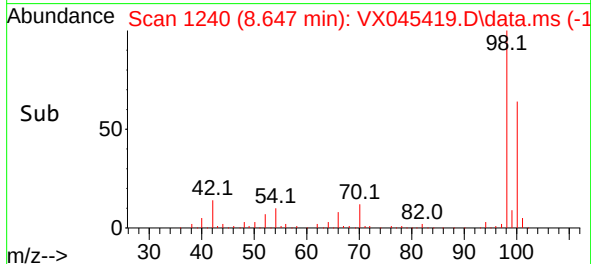
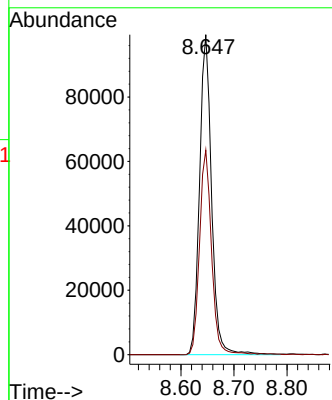
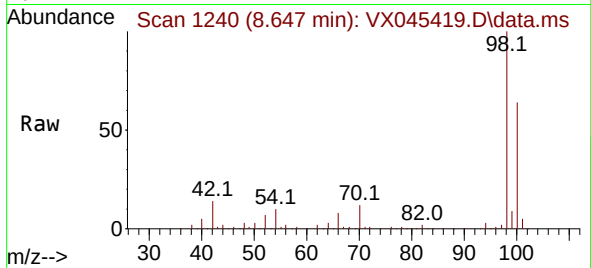




#50
Toluene-d8
Concen: 49.269 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045419.D
Acq: 24 Mar 2025 16:50

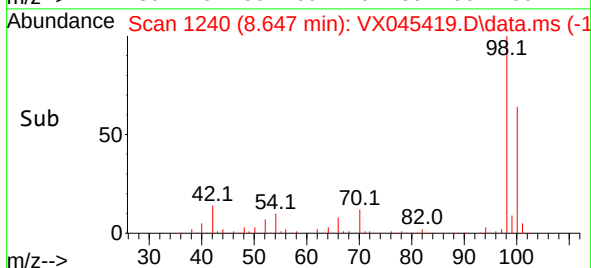
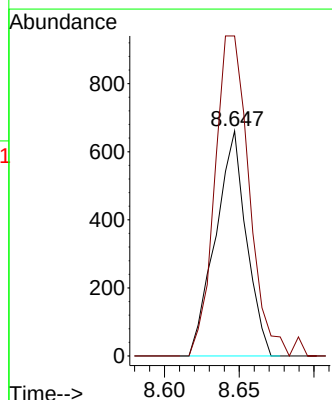
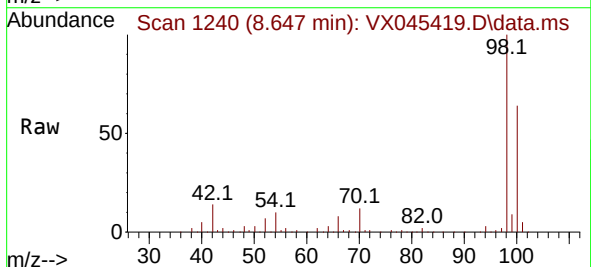
Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20250318

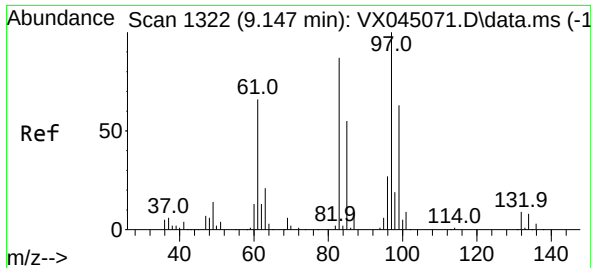
Tgt Ion: 98 Resp: 156497
Ion Ratio Lower Upper
98 100
100 64.1 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.617 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.073 min
Lab File: VX045419.D
Acq: 24 Mar 2025 16:50

Tgt Ion: 43 Resp: 948
Ion Ratio Lower Upper
43 100
58 160.1 29.2 43.8#

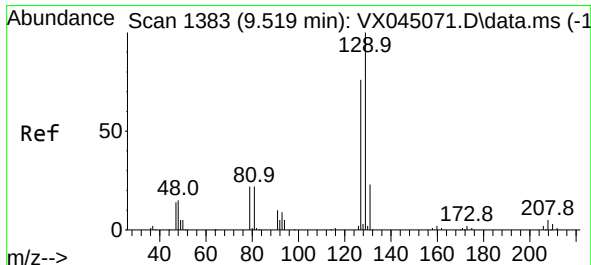
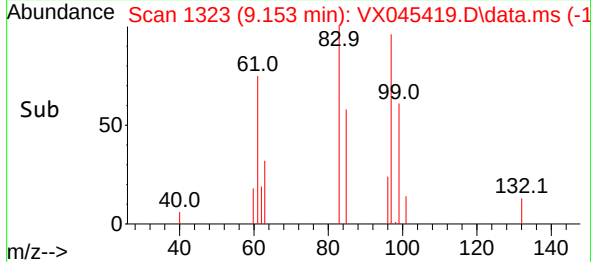
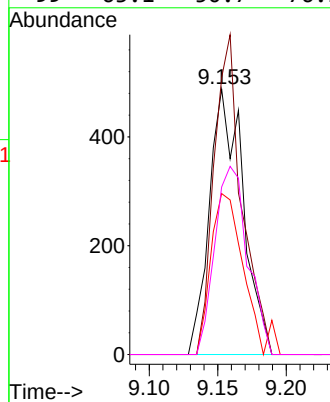
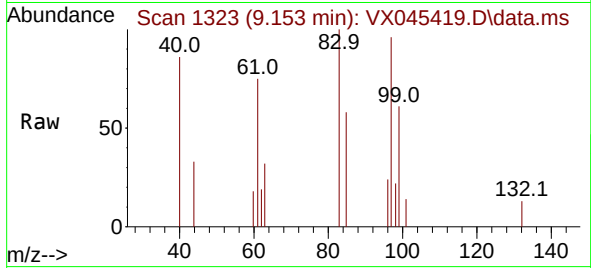




#55
 1,1,2-Trichloroethane
 Concen: 0.911 ug/l
 RT: 9.153 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VX045419.D
 Acq: 24 Mar 2025 16:50

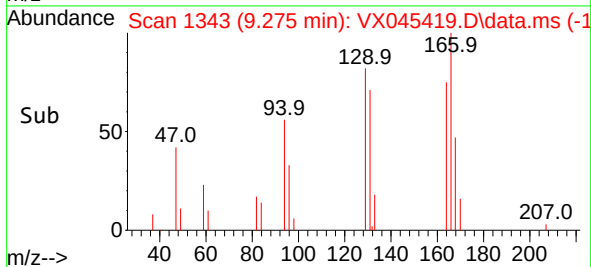
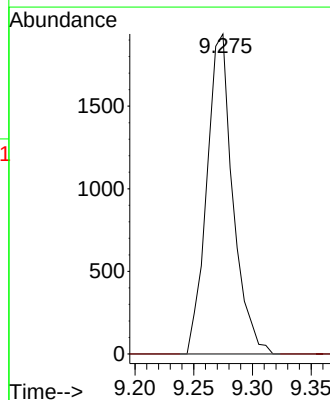
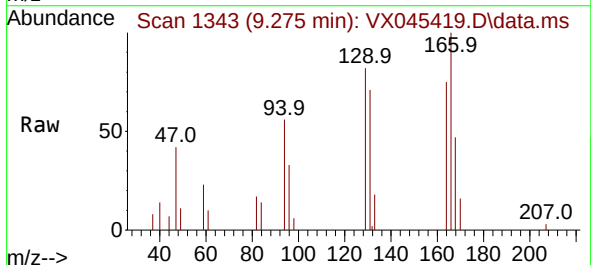
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D7-20250318

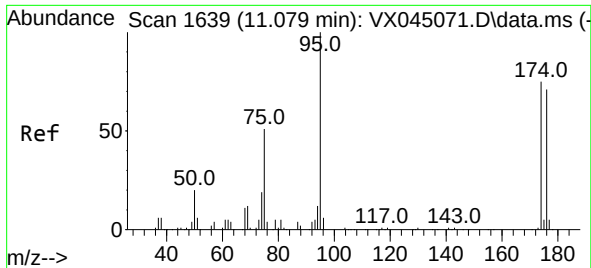
Tgt Ion: 97	Resp:	835	
Ion	Ratio	Lower	Upper
97	100		
83	104.3	69.4	104.2#
85	60.7	44.1	66.1
99	63.1	50.7	76.1



#60
 Dibromochloromethane
 Concen: 3.122 ug/l
 RT: 9.275 min Scan# 1343
 Delta R.T. -0.244 min
 Lab File: VX045419.D
 Acq: 24 Mar 2025 16:50

Tgt	Ion:129	Resp:	2992
Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.5	115.5#

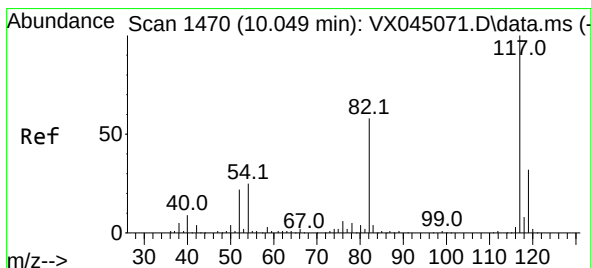
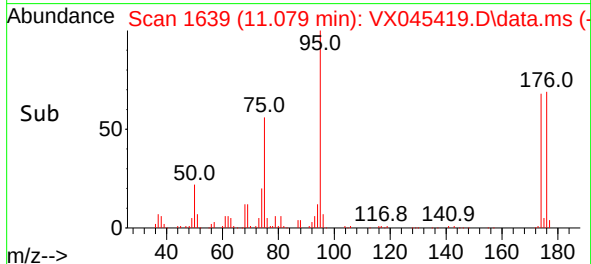
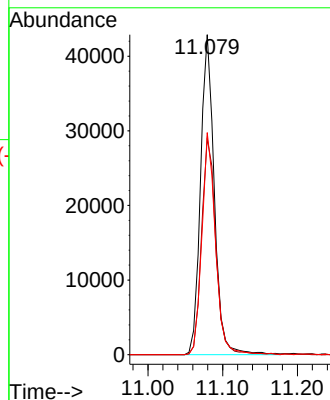
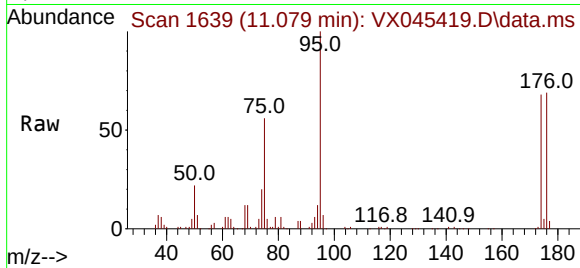




#62
4-Bromofluorobenzene
Concen: 52.112 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045419.D
Acq: 24 Mar 2025 16:50

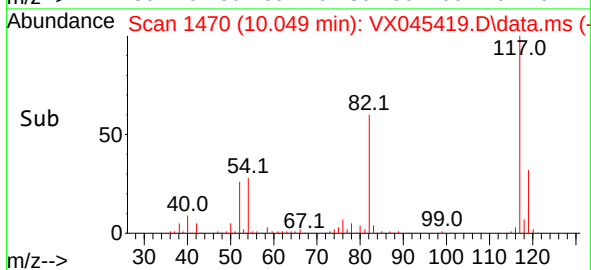
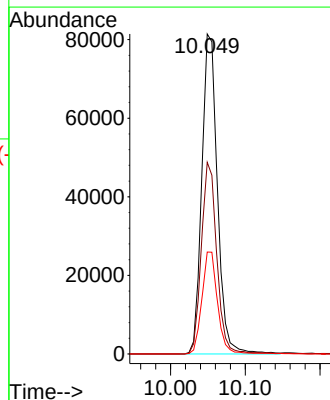
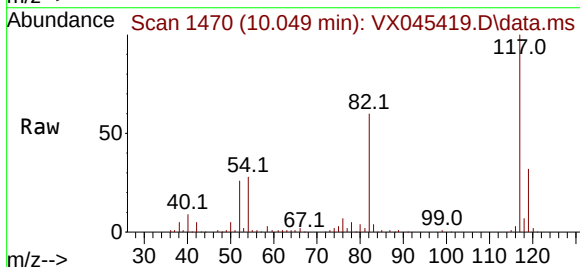
Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20250318

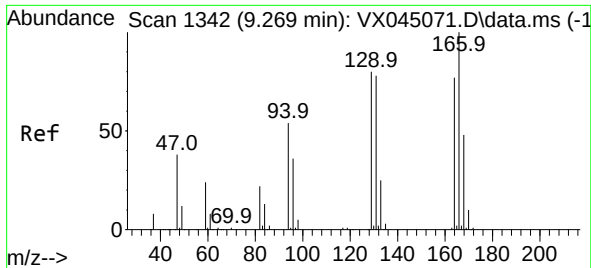
Tgt Ion: 95 Resp: 54851
Ion Ratio Lower Upper
95 100
174 70.3 0.0 148.2
176 68.7 0.0 141.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045419.D
Acq: 24 Mar 2025 16:50

Tgt Ion: 117 Resp: 118374
Ion Ratio Lower Upper
117 100
82 59.9 46.3 69.5
119 31.9 25.7 38.5





#64

Tetrachloroethene

Concen: 3.523 ug/l

RT: 9.275 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX045419.D

Acq: 24 Mar 2025 16:50

Instrument :

MSVOA_X

ClientSampleId :

RE132D7-20250318

Tgt Ion:164 Resp: 2671

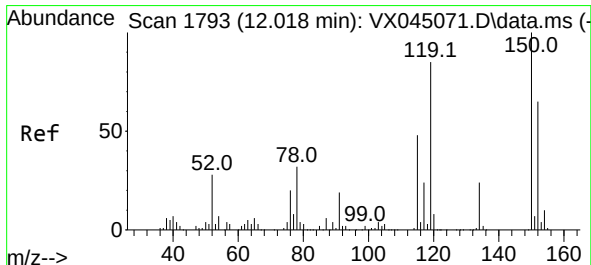
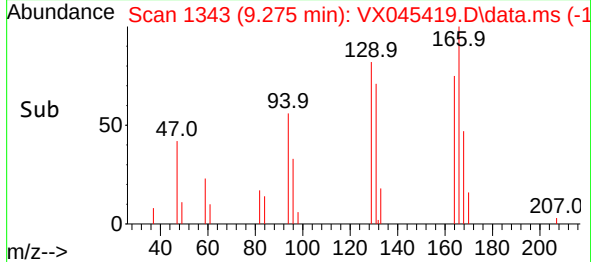
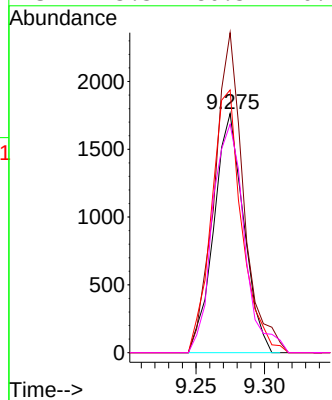
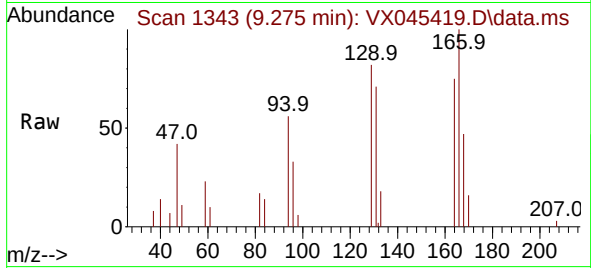
Ion Ratio Lower Upper

164 100

166 133.8 103.6 155.4

129 109.8 82.7 124.1

131 95.5 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: VX045419.D

Acq: 24 Mar 2025 16:50

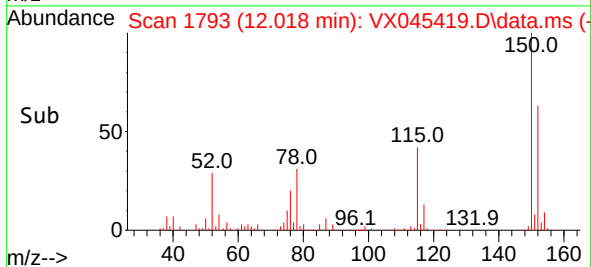
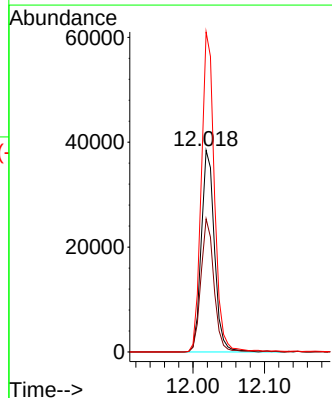
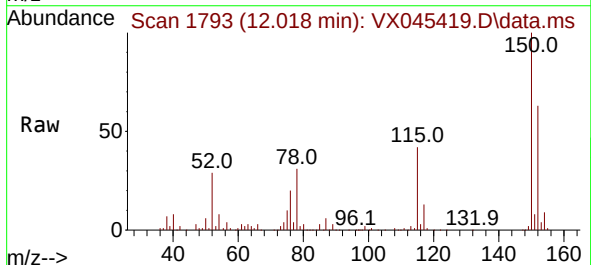
Tgt Ion:152 Resp: 49435

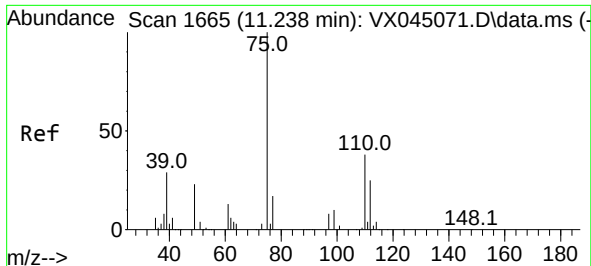
Ion Ratio Lower Upper

152 100

115 64.9 44.2 132.6

150 157.6 0.0 349.0

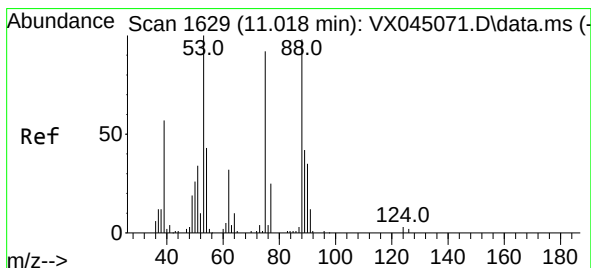
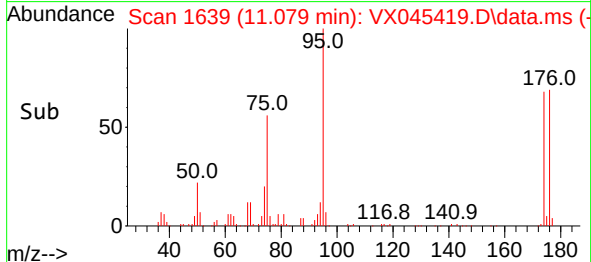
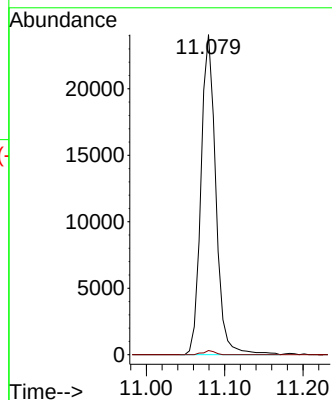
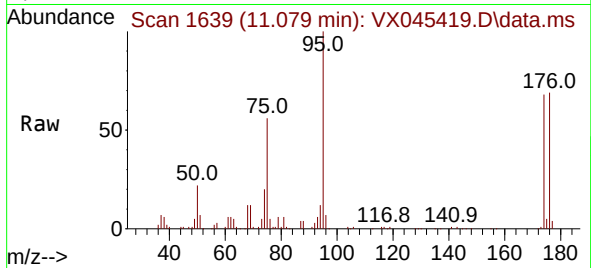




#76
1,2,3-Trichloropropane
Concen: 27.606 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX045419.D
Acq: 24 Mar 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20250318

Tgt Ion: 75 Resp: 31763
Ion Ratio Lower Upper
75 100
77 1.0 20.7 62.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 94.471 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX045419.D
Acq: 24 Mar 2025 16:50

Tgt Ion: 75 Resp: 31763
Ion Ratio Lower Upper
75 100
53 0.0 88.5 132.7#
89 0.0 36.2 54.4#

