

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
 Data File : VX047737.D
 Acq On : 23 Sep 2025 16:34
 Operator : JC/MD
 Sample : Q3097-19
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D1-20250912

Quant Time: Sep 24 01:35:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

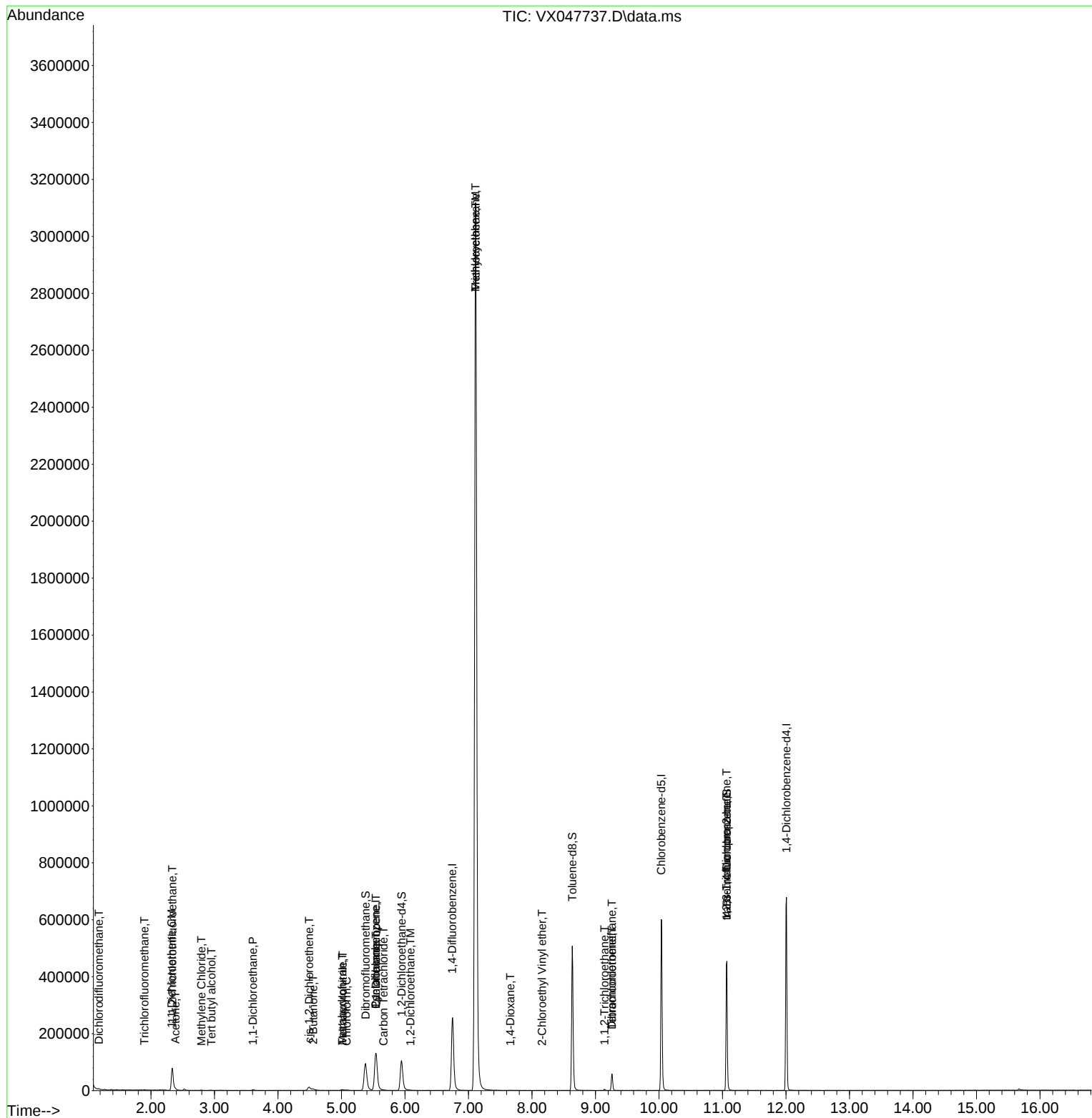
Internal Standards						
1) Pentafluorobenzene	5.538	168	133765	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	281791	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	275514	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141902	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	110502	51.898	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 103.800%		
35) Dibromofluoromethane	5.379	113	91324	48.324	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 96.640%		
50) Toluene-d8	8.635	98	305233	46.677	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 93.360%		
62) 4-Bromofluorobenzene	11.067	95	133881	53.946	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 107.900%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.179	85	474	0.342	ug/l	89
7) Trichlorofluoromethane	1.898	101	657	0.248	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.337	101	26053	16.839	ug/l	99
11) Tert butyl alcohol	2.953	59	130	0.548	ug/l #	72
12) 1,1-Dichloroethene	2.325	96	11018	6.933	ug/l	94
16) Acetone	2.386	43	3716	4.014	ug/l	90
20) Methylene Chloride	2.794	84	659	0.336	ug/l #	51
24) 1,1-Dichloroethane	3.605	63	2849	0.843	ug/l #	94
25) 2-Butanone	4.556	43	1046	0.906	ug/l #	48
27) cis-1,2-Dichloroethene	4.489	96	8455	4.035	ug/l	88
29) Tetrahydrofuran	5.013	42	2676	3.852	ug/l #	73
30) Chloroform	5.080	83	1745	0.511	ug/l #	81
31) Cyclohexane	5.544	56	2857	1.015	ug/l #	1
36) 1,1-Dichloropropene	5.544	75	11710	4.240	ug/l #	47
38) Carbon Tetrachloride	5.660	117	797	0.266	ug/l #	67
39) Methylcyclohexane	7.111	83	13350	4.259	ug/l #	1
41) Methacrylonitrile	5.019	41	1586	1.039	ug/l #	37
42) 1,2-Dichloroethane	6.086	62	667	0.209	ug/l #	76
44) Trichloroethene	7.111	130	1292636	637.467	ug/l	96
49) 1,4-Dioxane	7.659	88	560	22.940	ug/l #	73
55) 1,1,2-Trichloroethane	9.141	97	999	0.501	ug/l	91
58) 2-Chloroethyl Vinyl ether	8.159	63	50	7.926	ug/l #	47
60) Dibromochloromethane	9.257	129	11638	5.069	ug/l #	11
64) Tetrachloroethene	9.257	164	11467	6.385	ug/l	99
76) 1,2,3-Trichloropropane	11.061	75	68263	23.760	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	68263	60.590	ug/l #	8

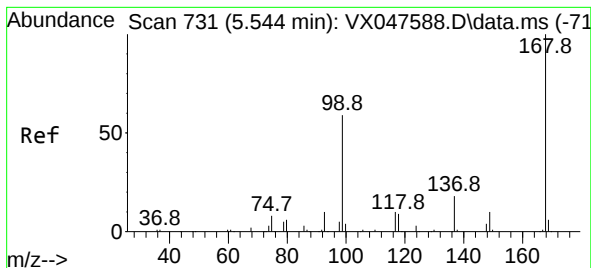
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.538 min Scan# 71

Delta R.T. -0.006 min

Lab File: VX047737.D

Acq: 23 Sep 2025 16:34

Instrument :

MSVOA_X

ClientSampleId :

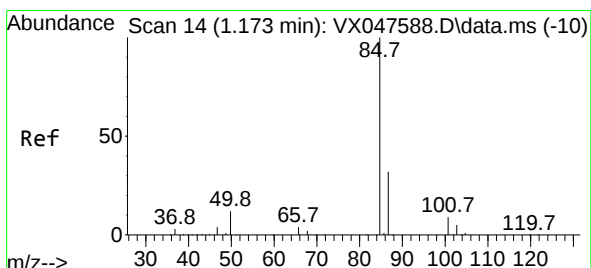
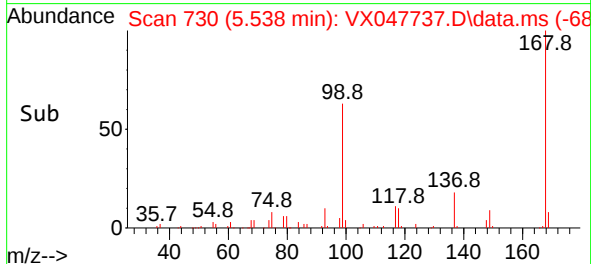
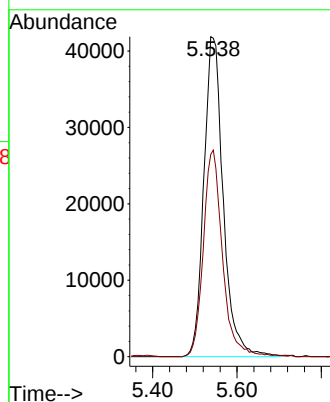
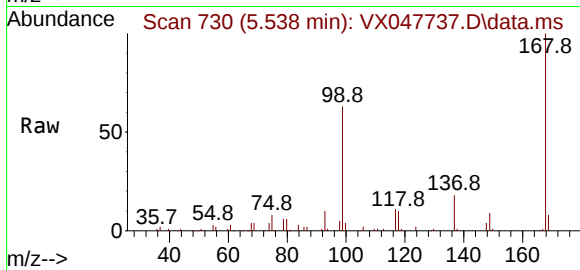
RE120D1-20250912

Tgt Ion:168 Resp: 133765

Ion Ratio Lower Upper

168 100

99 63.2 48.8 73.2



#2

Dichlorodifluoromethane

Concen: 0.342 ug/l

RT: 1.179 min Scan# 15

Delta R.T. 0.006 min

Lab File: VX047737.D

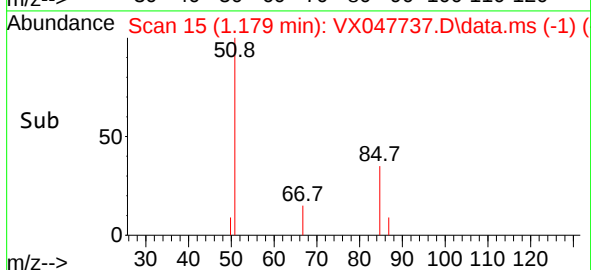
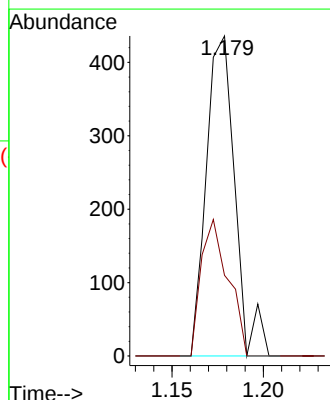
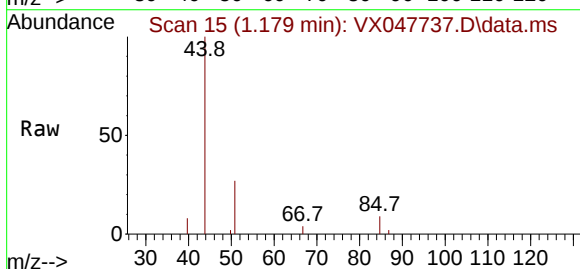
Acq: 23 Sep 2025 16:34

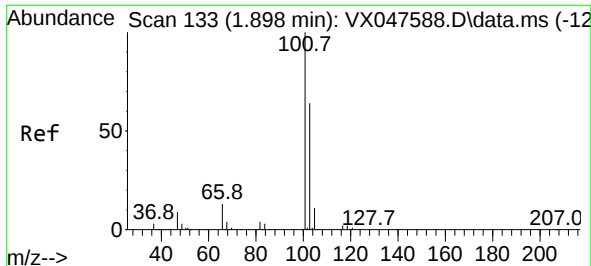
Tgt Ion: 85 Resp: 474

Ion Ratio Lower Upper

85 100

87 25.2 15.8 47.3

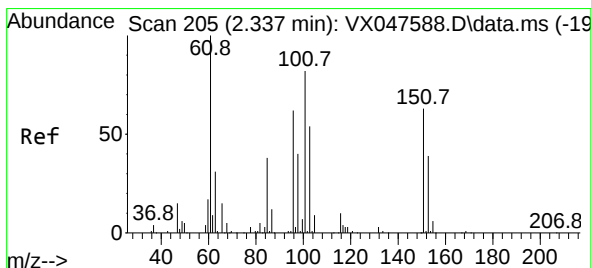
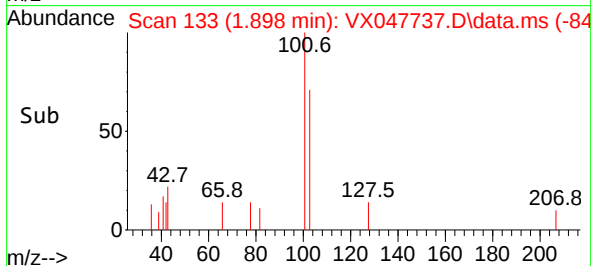
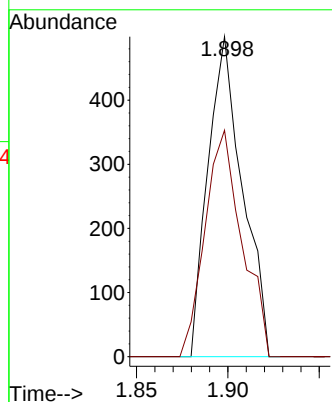
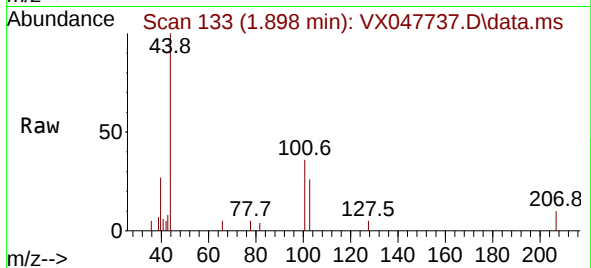




#7
Trichlorofluoromethane
Concen: 0.248 ug/l
RT: 1.898 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

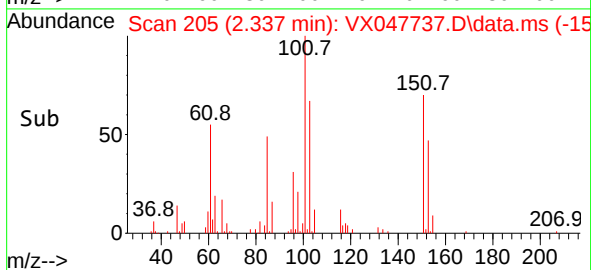
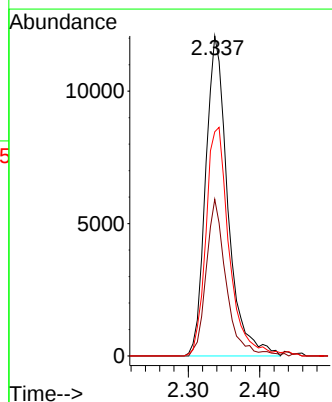
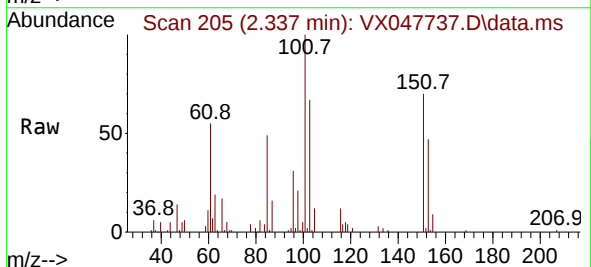
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

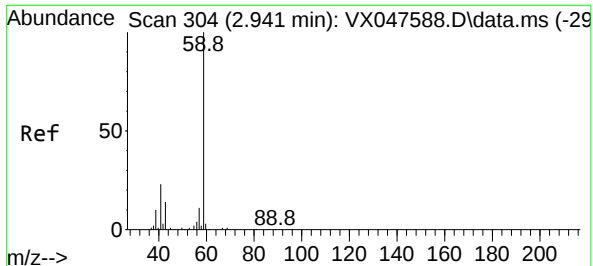
Tgt Ion:101 Resp: 657
Ion Ratio Lower Upper
101 100
103 70.7 51.4 77.2



#9
1,1,2-Trichlorotrifluoroethane
Concen: 16.839 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion:101 Resp: 26053
Ion Ratio Lower Upper
101 100
85 44.4 35.5 53.3
151 75.5 59.4 89.0

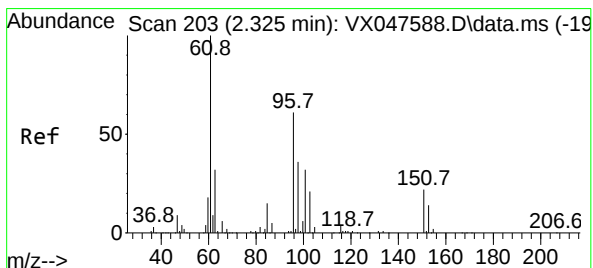
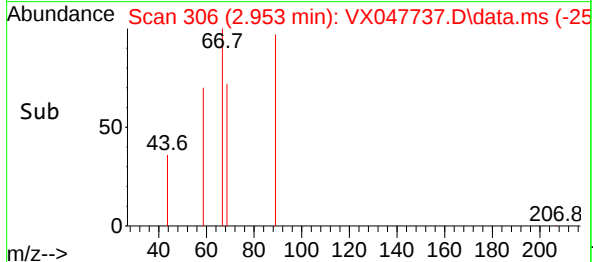
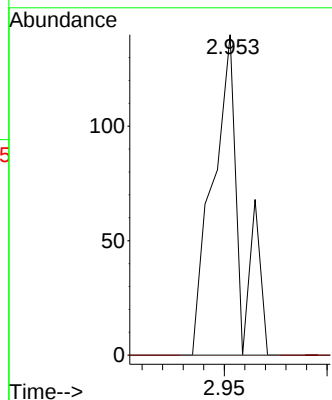
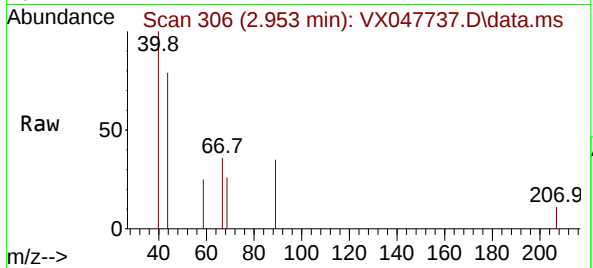




#11
Tert butyl alcohol
Concen: 0.548 ug/l
RT: 2.953 min Scan# 306
Delta R.T. 0.012 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

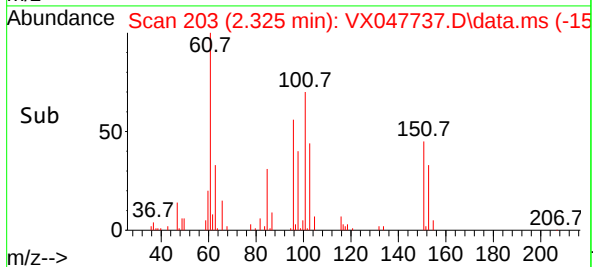
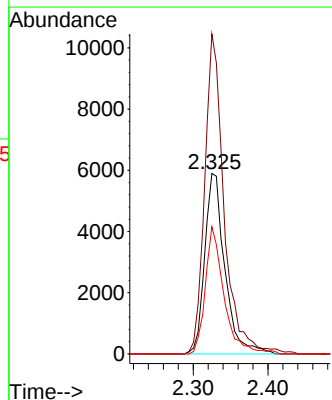
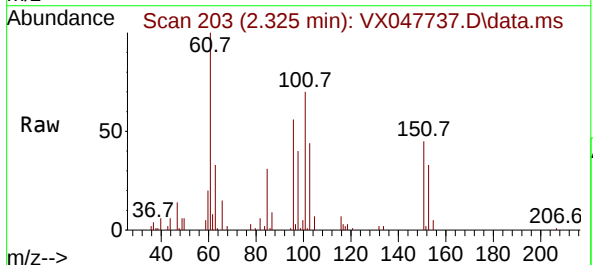
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

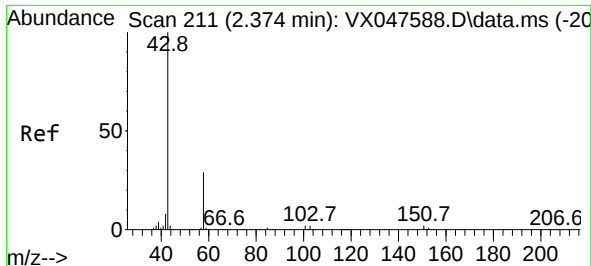
Tgt Ion: 59 Resp: 130
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#12
1,1-Dichloroethene
Concen: 6.933 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 96 Resp: 11018
Ion Ratio Lower Upper
96 100
61 169.0 131.0 196.6
98 67.2 47.7 71.5

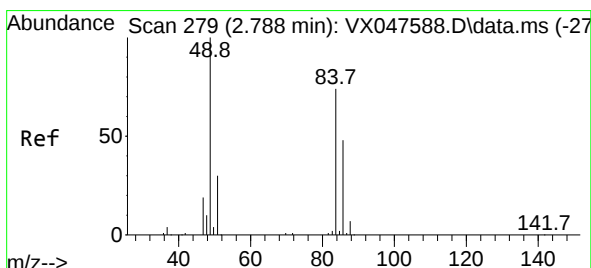
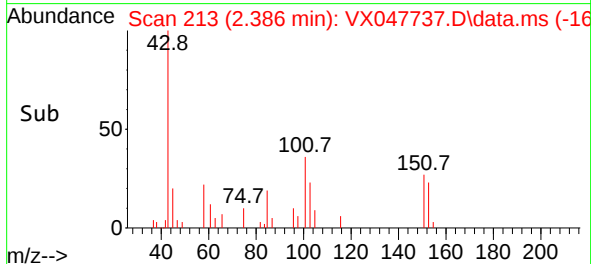
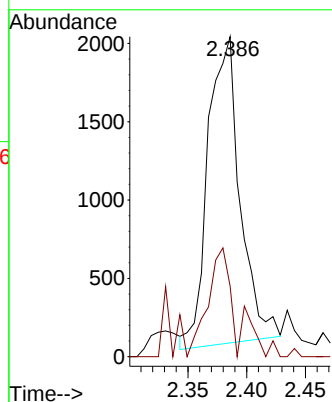
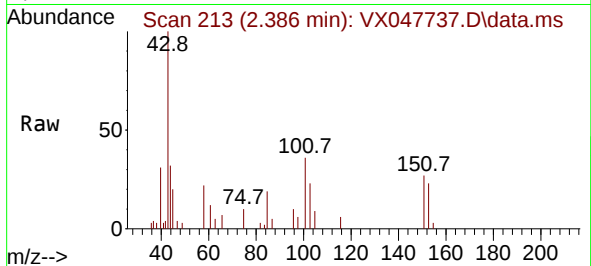




#16
Acetone
Concen: 4.014 ug/l
RT: 2.386 min Scan# 211
Delta R.T. 0.012 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

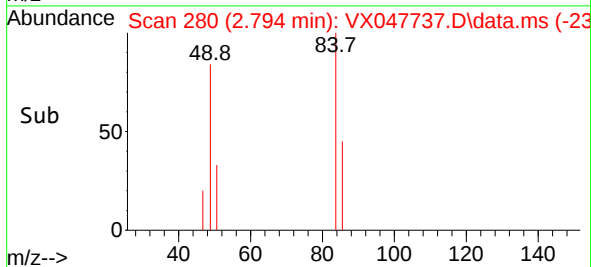
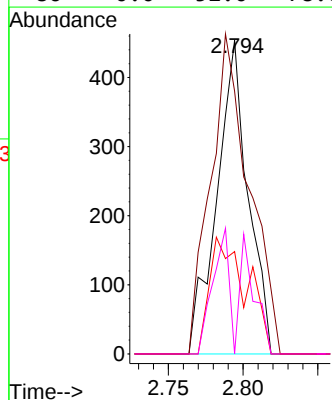
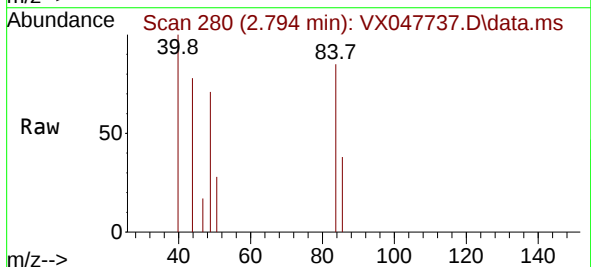
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

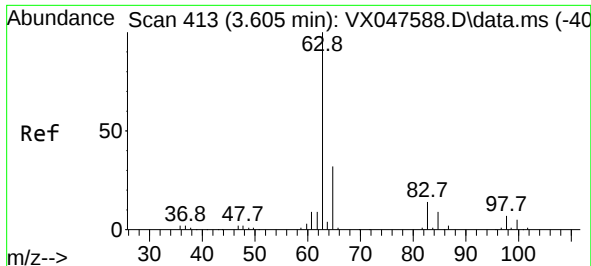
Tgt Ion: 43 Resp: 3716
Ion Ratio Lower Upper
43 100
58 23.7 23.4 35.0



#20
Methylene Chloride
Concen: 0.336 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 84 Resp: 659
Ion Ratio Lower Upper
84 100
49 83.7 108.6 162.8#
51 32.6 32.6 48.8
86 0.0 52.0 78.0#

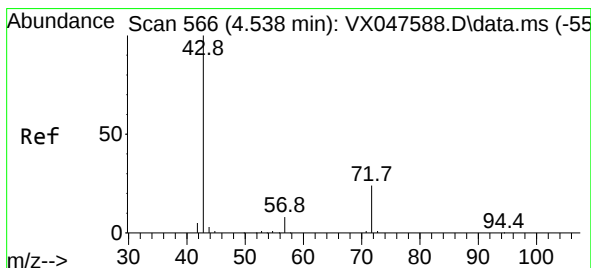
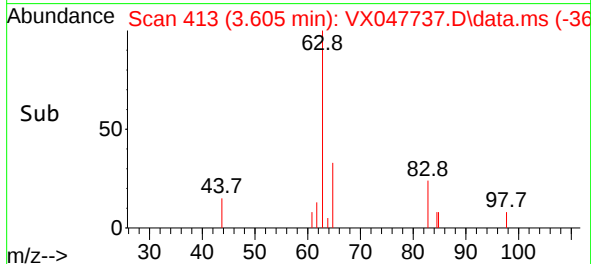
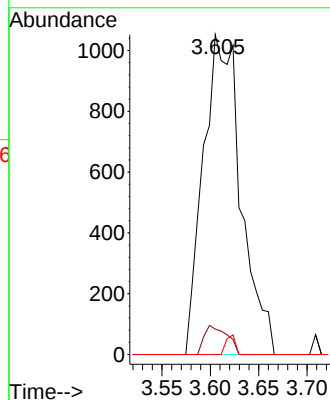
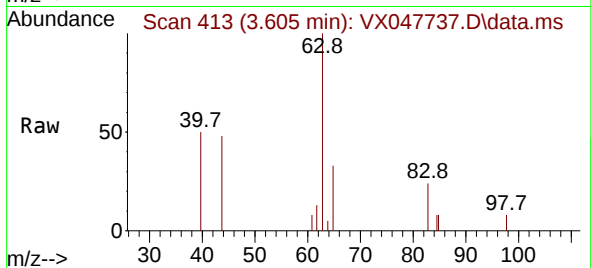




#24
 1,1-Dichloroethane
 Concen: 0.843 ug/l
 RT: 3.605 min Scan# 413
 Delta R.T. 0.000 min
 Lab File: VX047737.D
 Acq: 23 Sep 2025 16:34

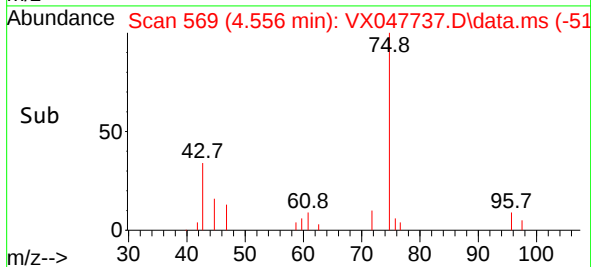
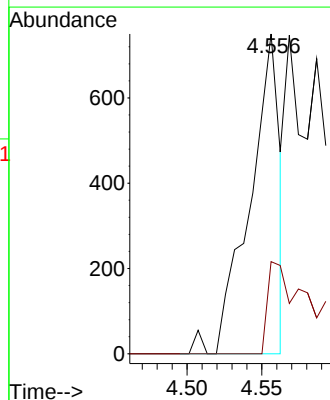
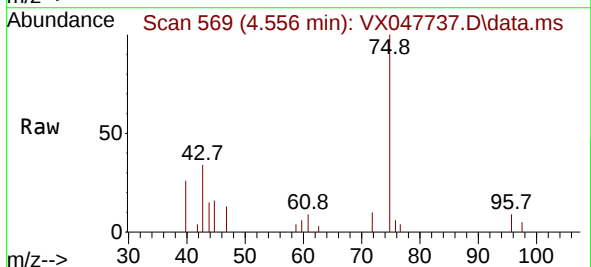
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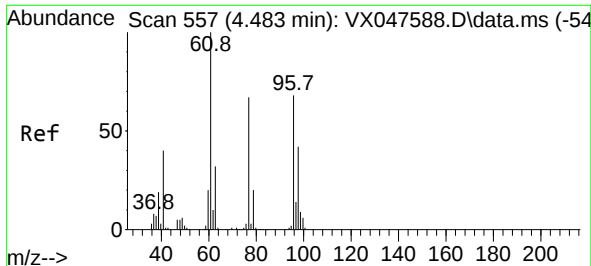
Tgt Ion: 63 Resp: 2849
 Ion Ratio Lower Upper
 63 100
 98 8.0 3.8 11.2
 100 0.0 2.3 6.9#



#25
 2-Butanone
 Concen: 0.906 ug/l
 RT: 4.556 min Scan# 569
 Delta R.T. 0.018 min
 Lab File: VX047737.D
 Acq: 23 Sep 2025 16:34

Tgt Ion: 43 Resp: 1046
 Ion Ratio Lower Upper
 43 100
 72 51.2 20.1 30.1#





#27

cis-1,2-Dichloroethene

Concen: 4.035 ug/l

RT: 4.489 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX047737.D

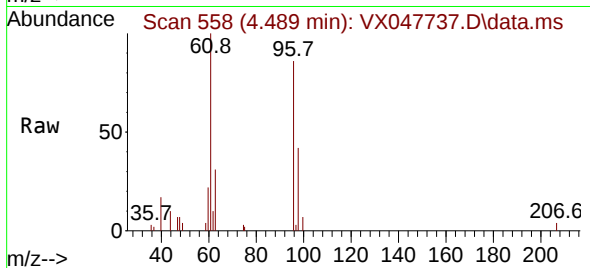
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Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20250912



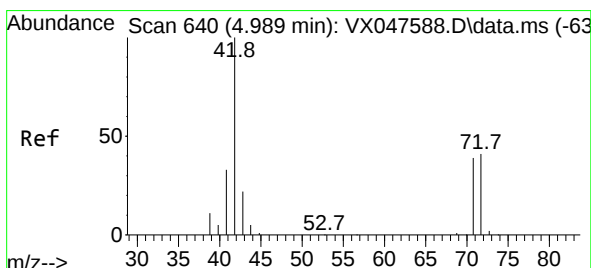
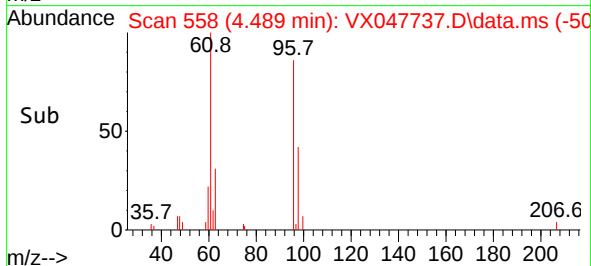
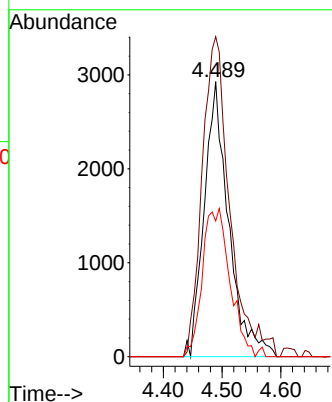
Tgt Ion: 96 Resp: 8455

Ion Ratio Lower Upper

96 100

61 131.2 0.0 303.2

98 60.6 0.0 127.8



#29

Tetrahydrofuran

Concen: 3.852 ug/l

RT: 5.013 min Scan# 644

Delta R.T. 0.024 min

Lab File: VX047737.D

Acq: 23 Sep 2025 16:34

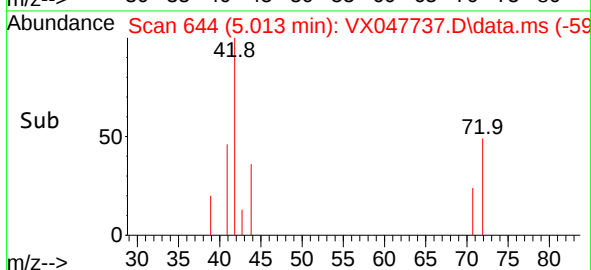
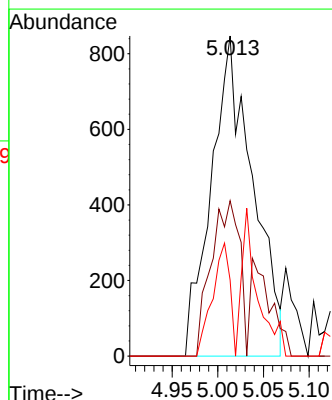
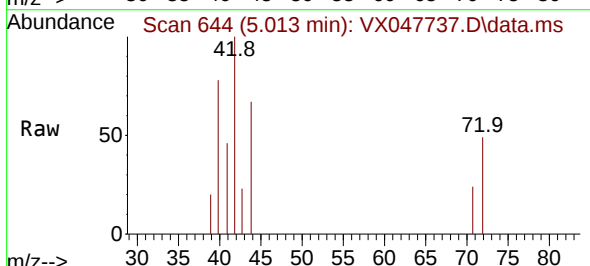
Tgt Ion: 42 Resp: 2676

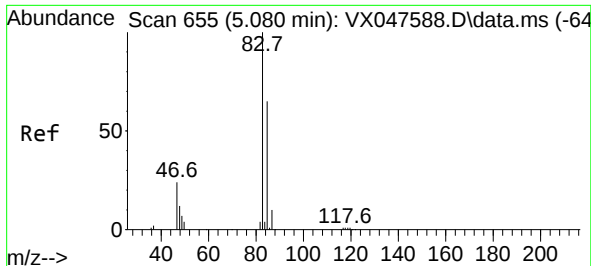
Ion Ratio Lower Upper

42 100

72 33.2 34.2 51.2#

71 14.9 31.9 47.9#





#30

Chloroform

Concen: 0.511 ug/l

RT: 5.080 min Scan# 61

Delta R.T. 0.000 min

Lab File: VX047737.D

Acq: 23 Sep 2025 16:34

Instrument :

MSVOA_X

ClientSampleId :

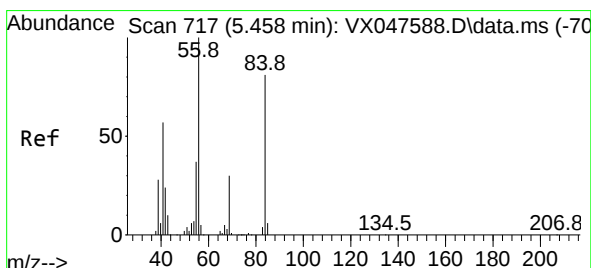
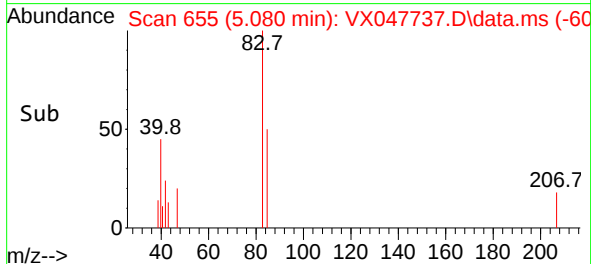
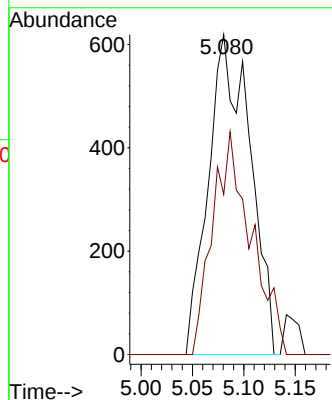
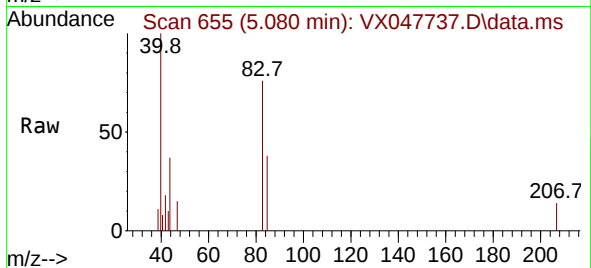
RE120D1-20250912

Tgt Ion: 83 Resp: 1745

Ion Ratio Lower Upper

83 100

85 50.1 51.8 77.6#



#31

Cyclohexane

Concen: 1.015 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.085 min

Lab File: VX047737.D

Acq: 23 Sep 2025 16:34

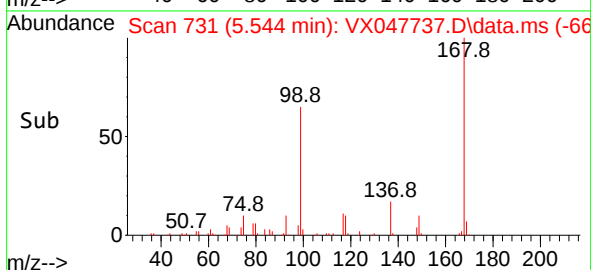
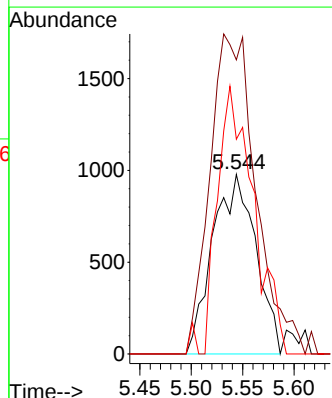
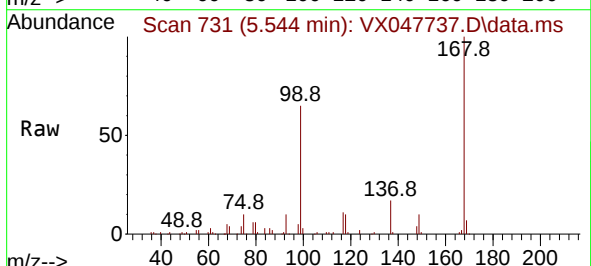
Tgt Ion: 56 Resp: 2857

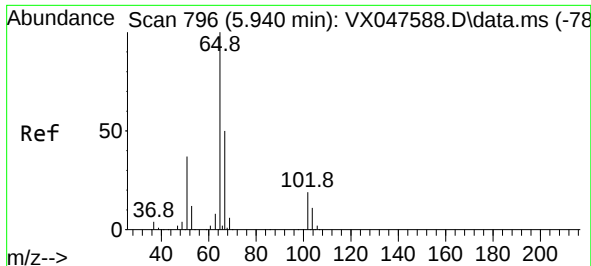
Ion Ratio Lower Upper

56 100

69 163.8 23.8 35.8#

84 119.6 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 51.898 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX047737.D

Acq: 23 Sep 2025 16:34

Instrument :

MSVOA_X

ClientSampleId :

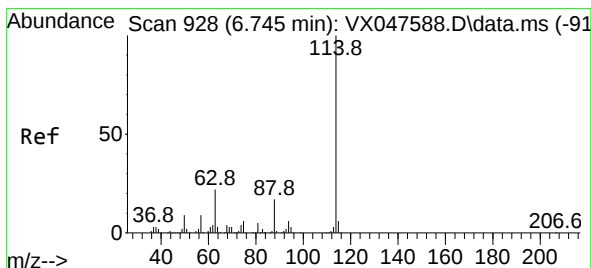
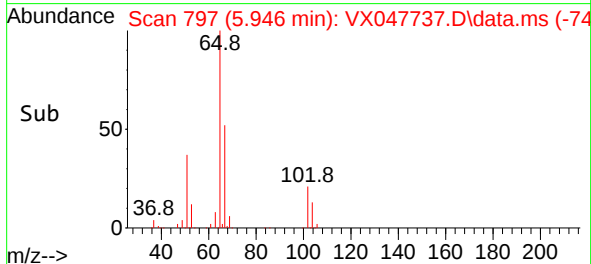
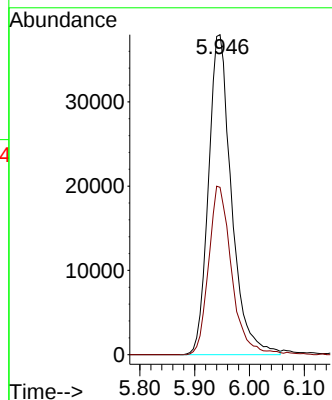
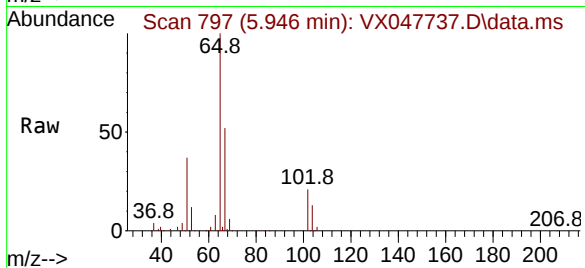
RE120D1-20250912

Tgt Ion: 65 Resp: 110502

Ion Ratio Lower Upper

65 100

67 52.6 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. 0.000 min

Lab File: VX047737.D

Acq: 23 Sep 2025 16:34

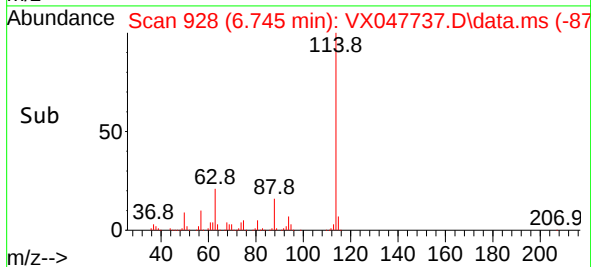
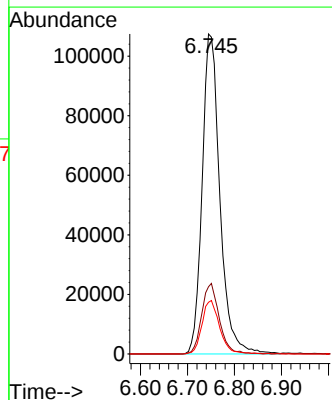
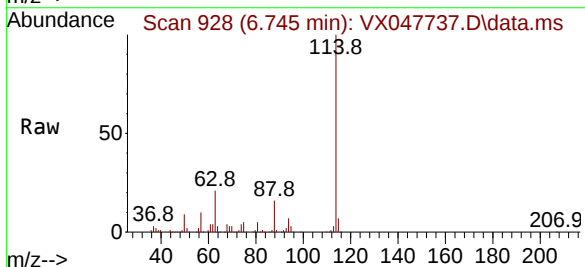
Tgt Ion: 114 Resp: 281791

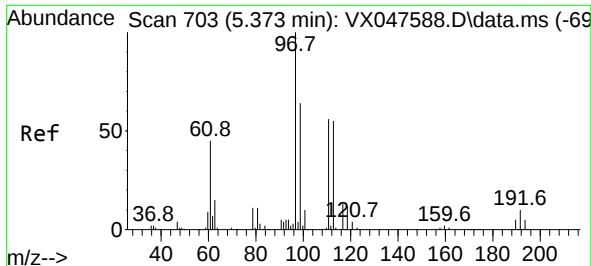
Ion Ratio Lower Upper

114 100

63 21.0 0.0 44.0

88 16.1 0.0 34.2

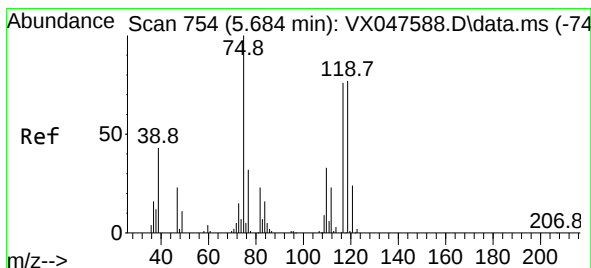
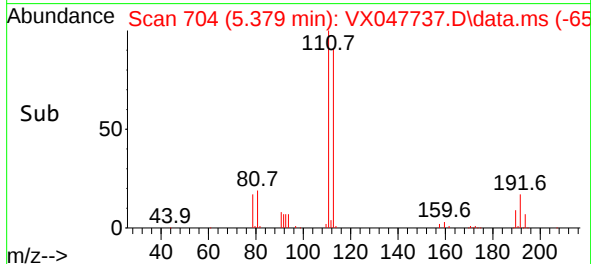
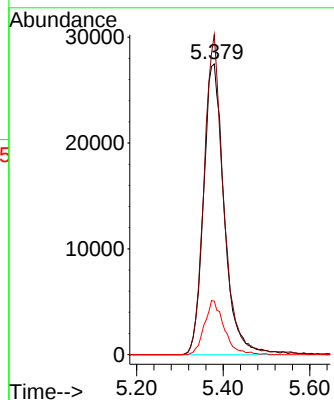
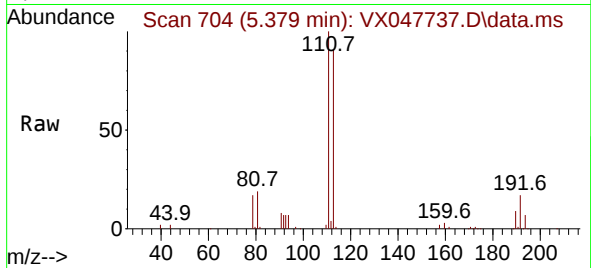




#35
 Dibromofluoromethane
 Concen: 48.324 ug/l
 RT: 5.379 min Scan# 703
 Delta R.T. 0.006 min
 Lab File: VX047737.D
 Acq: 23 Sep 2025 16:34

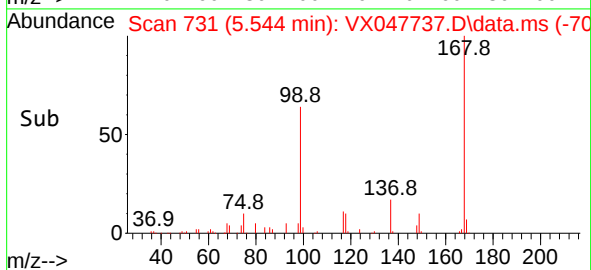
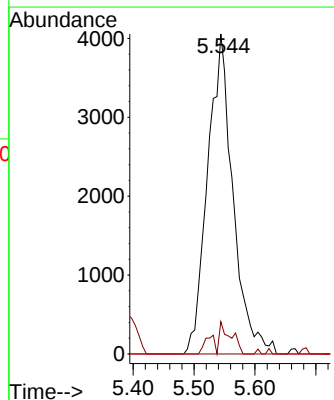
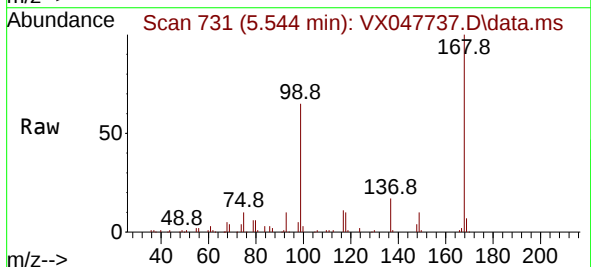
Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D1-20250912

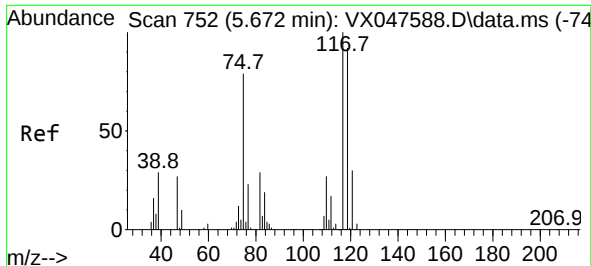
Tgt Ion:113 Resp: 91324
 Ion Ratio Lower Upper
 113 100
 111 103.0 80.9 121.3
 192 17.7 14.2 21.4



#36
 1,1-Dichloropropene
 Concen: 4.240 ug/l
 RT: 5.544 min Scan# 731
 Delta R.T. -0.140 min
 Lab File: VX047737.D
 Acq: 23 Sep 2025 16:34

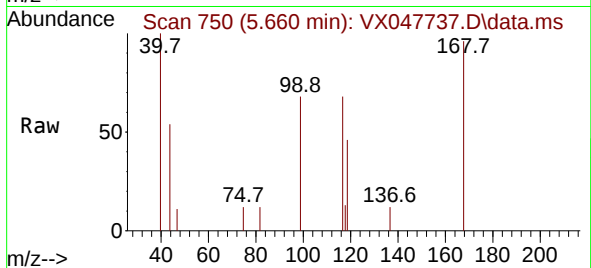
Tgt Ion: 75 Resp: 11710
 Ion Ratio Lower Upper
 75 100
 110 4.6 16.7 50.1#
 77 0.0 24.3 36.5#



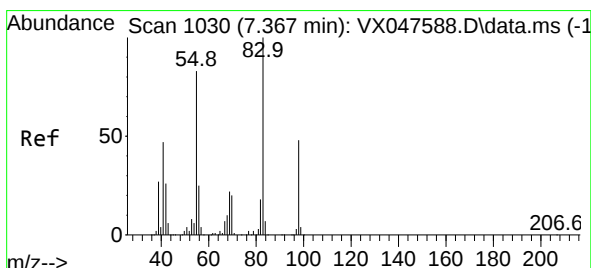
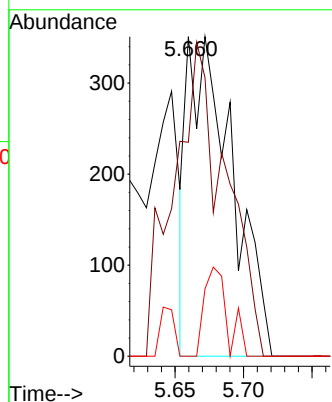
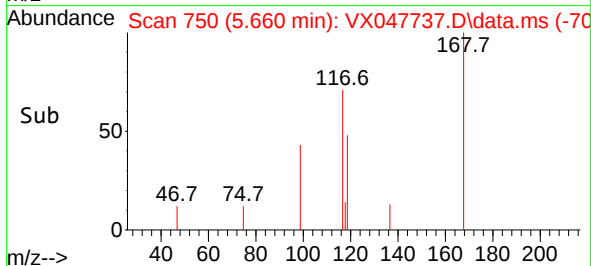


#38
Carbon Tetrachloride
Concen: 0.266 ug/l
RT: 5.660 min Scan# 711
Delta R.T. -0.012 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

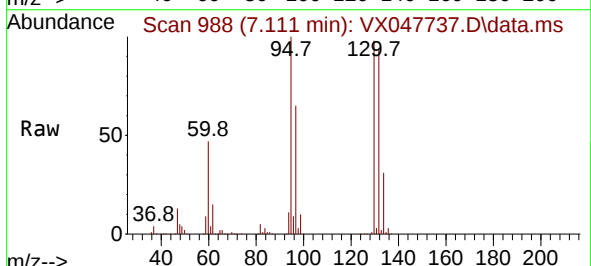
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912



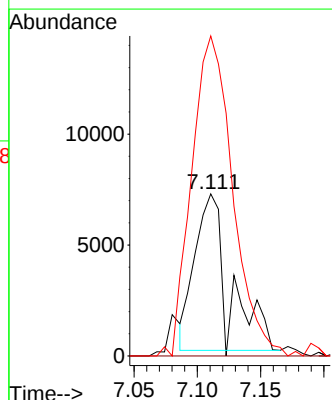
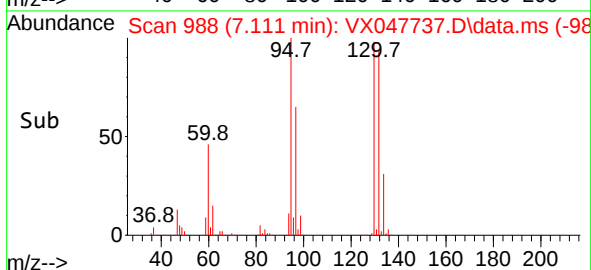
Tgt Ion:117 Resp: 797
Ion Ratio Lower Upper
117 100
119 67.0 73.4 110.2#
121 0.0 23.8 35.6#

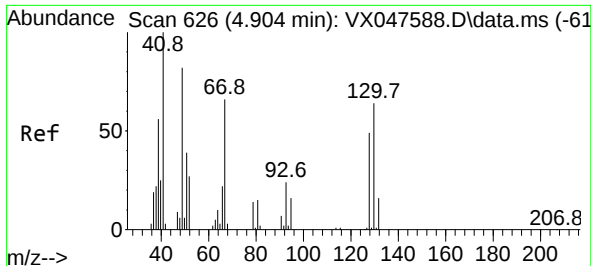


#39
Methylcyclohexane
Concen: 4.259 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.256 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34



Tgt Ion: 83 Resp: 13350
Ion Ratio Lower Upper
83 100
55 0.0 66.4 99.6#
98 300.9 38.1 57.1#

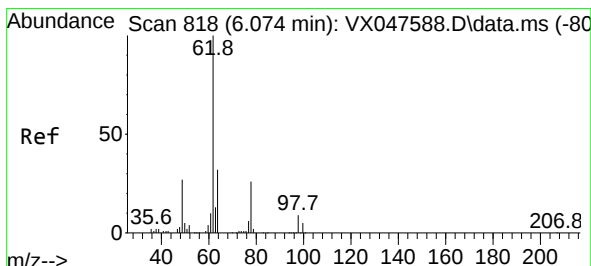
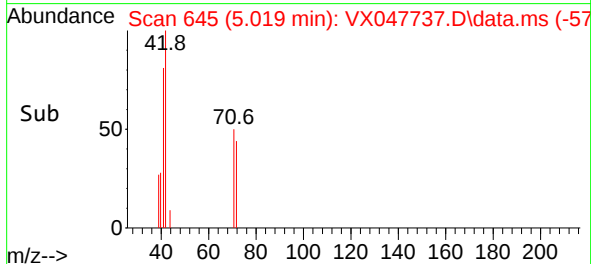
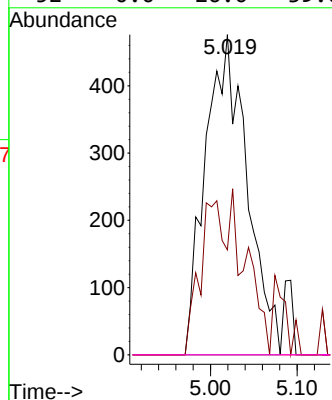
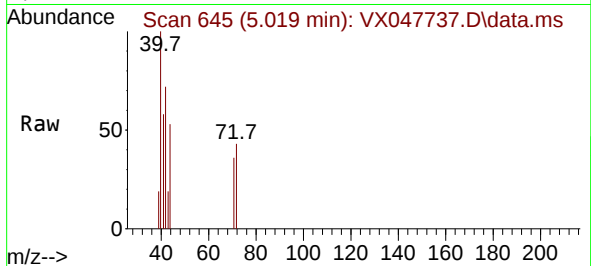




#41
Methacrylonitrile
Concen: 1.039 ug/l
RT: 5.019 min Scan# 645
Delta R.T. 0.116 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

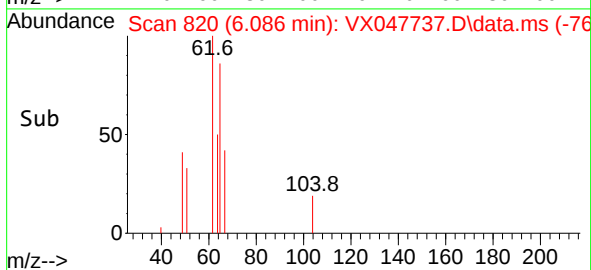
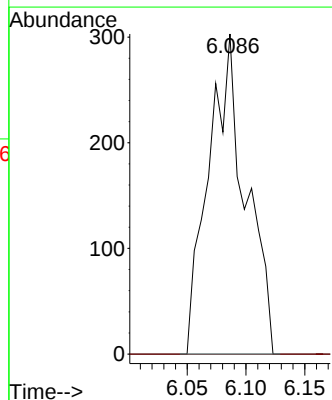
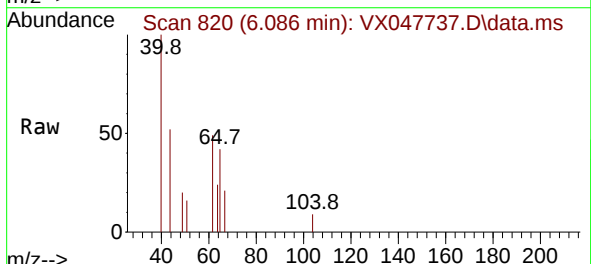
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

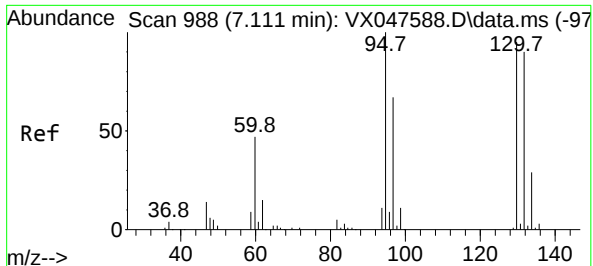
Tgt Ion: 41	Resp: 1586
Ion Ratio	Lower Upper
41 100	
39 29.6	43.3 64.9#
67 0.0	58.6 87.8#
52 0.0	26.0 39.0#



#42
1,2-Dichloroethane
Concen: 0.209 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.012 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 62	Resp: 667
Ion Ratio	Lower Upper
62 100	
98 0.0	0.0 17.0

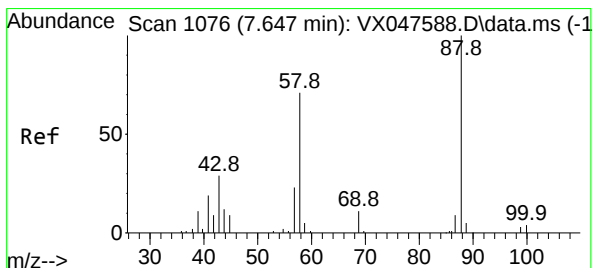
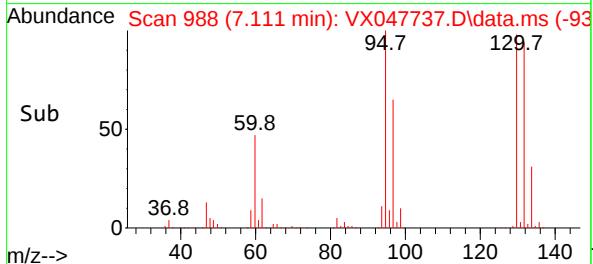
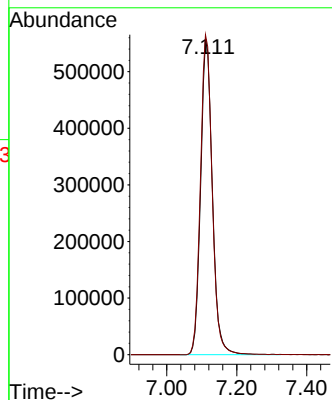
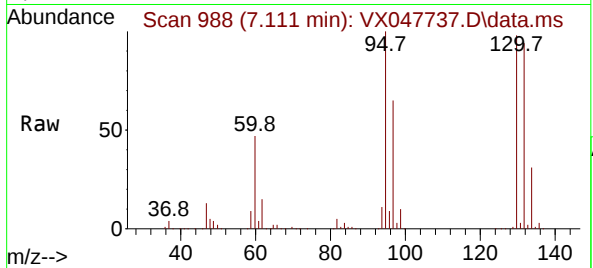




#44
Trichloroethene
Concen: 637.467 ug/l
RT: 7.111 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

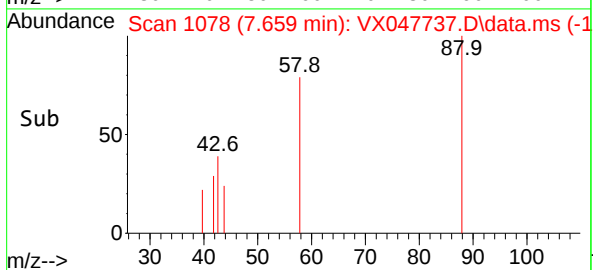
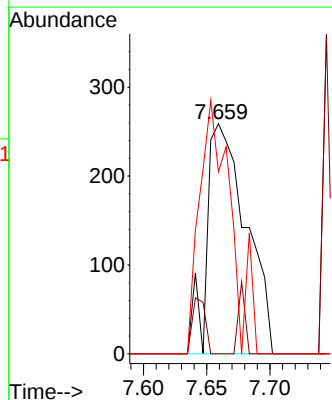
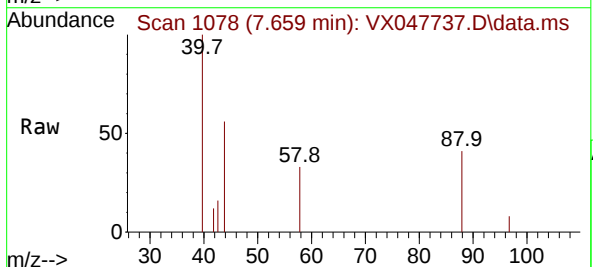
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

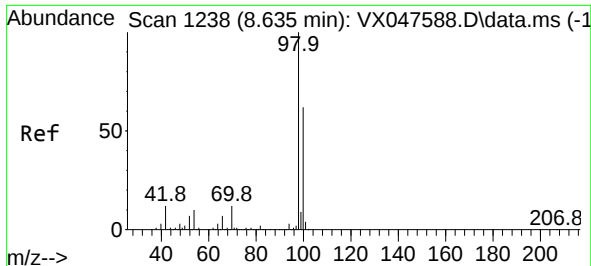
Tgt Ion:130 Resp: 1292636
Ion Ratio Lower Upper
130 100
95 101.7 0.0 210.8



#49
1,4-Dioxane
Concen: 22.940 ug/l
RT: 7.659 min Scan# 1078
Delta R.T. 0.012 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 88 Resp: 560
Ion Ratio Lower Upper
88 100
43 7.9 30.2 45.2#
58 87.9 59.5 89.3

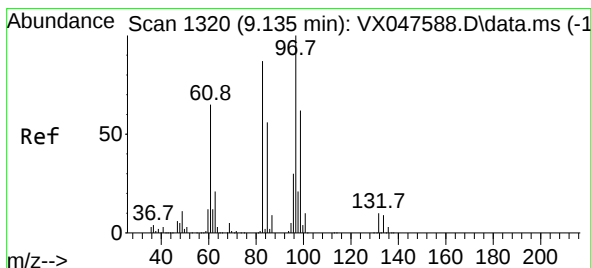
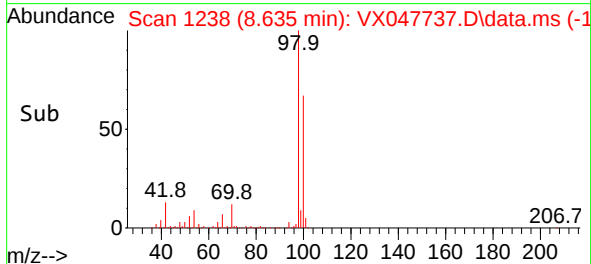
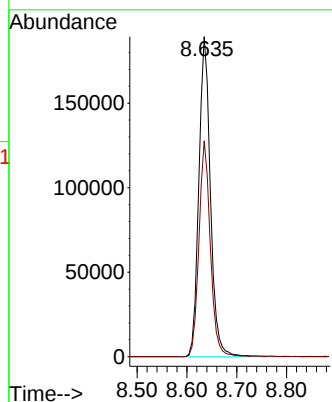
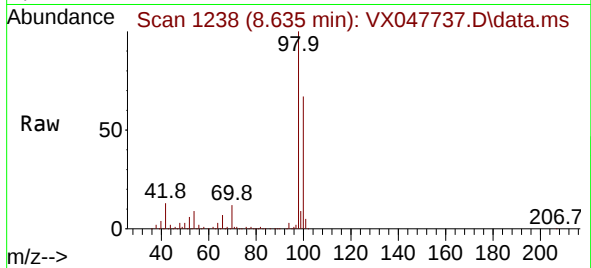




#50
Toluene-d8
Concen: 46.677 ug/l
RT: 8.635 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

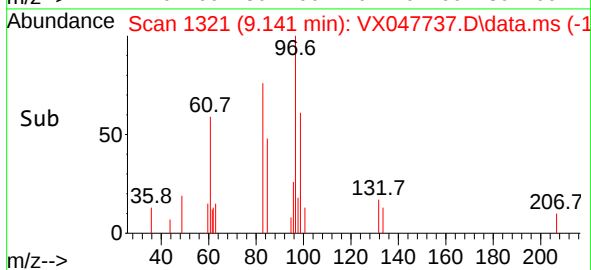
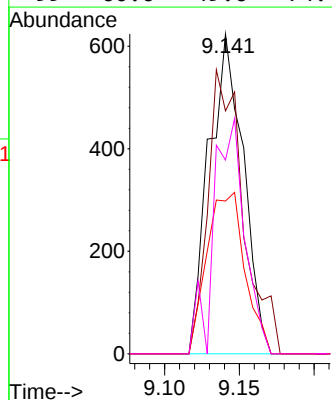
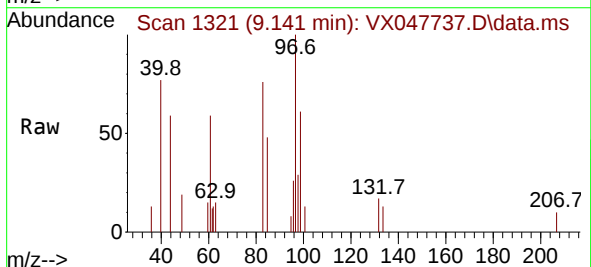
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

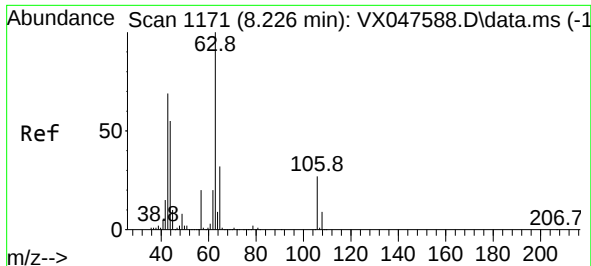
Tgt Ion: 98 Resp: 305233
Ion Ratio Lower Upper
98 100
100 66.4 53.0 79.4



#55
1,1,2-Trichloroethane
Concen: 0.501 ug/l
RT: 9.141 min Scan# 1321
Delta R.T. 0.006 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 97 Resp: 999
Ion Ratio Lower Upper
97 100
83 76.0 69.6 104.4
85 47.8 45.0 67.6
99 60.6 49.6 74.4

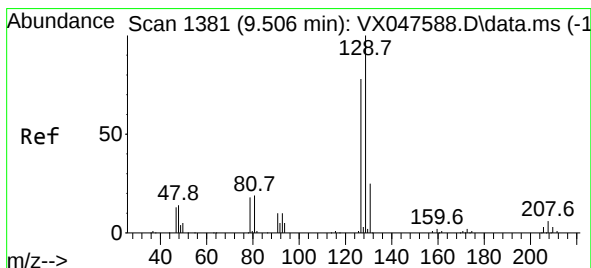
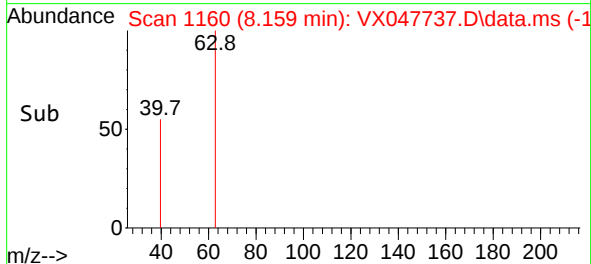
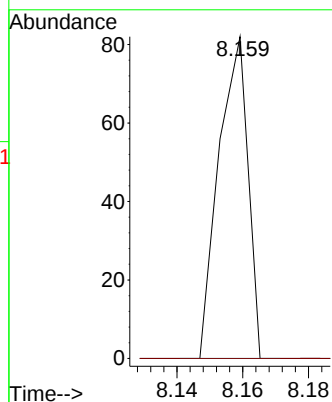
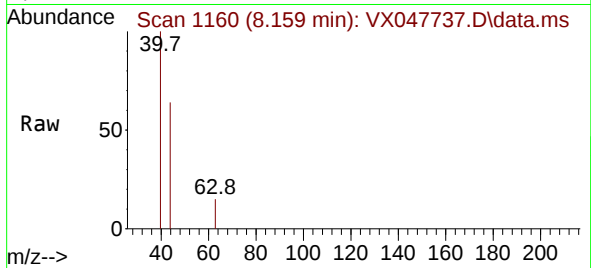




#58
2-Chloroethyl Vinyl ether
Concen: 7.926 ug/l
RT: 8.159 min Scan# 1171
Delta R.T. -0.067 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

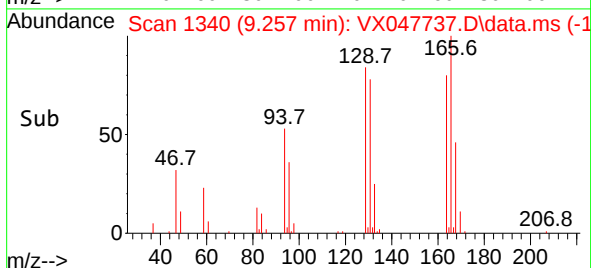
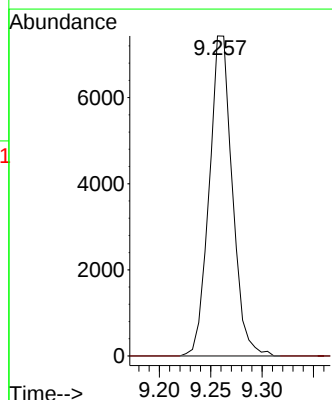
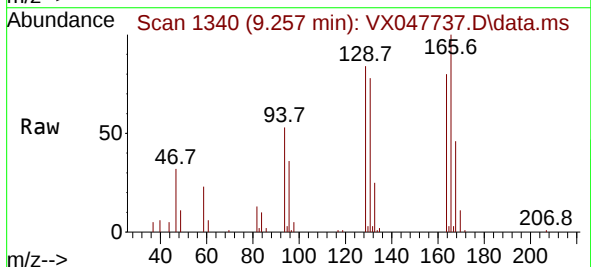
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

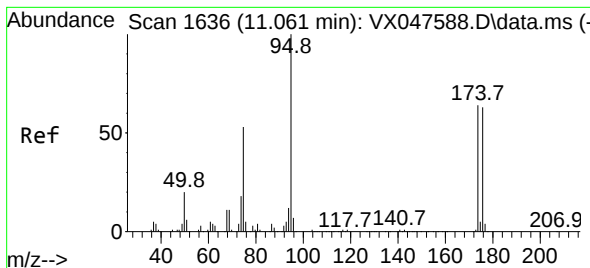
Tgt Ion: 63 Resp: 50
Ion Ratio Lower Upper
63 100
106 0.0 21.9 32.9#



#60
Dibromochloromethane
Concen: 5.069 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. -0.250 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion:129 Resp: 11638
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#





#62

4-Bromofluorobenzene

Concen: 53.946 ug/l

RT: 11.067 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX047737.D

Acq: 23 Sep 2025 16:34

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20250912

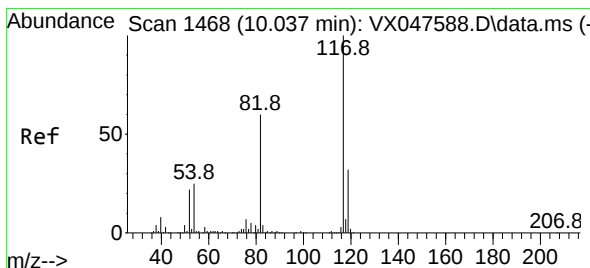
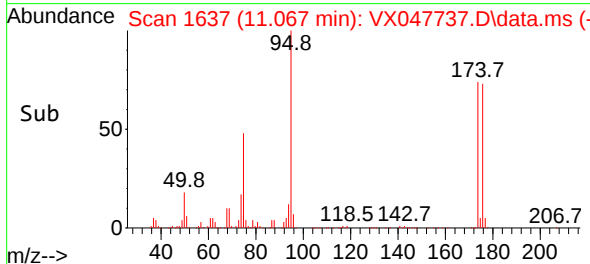
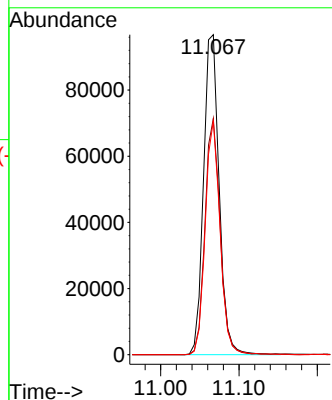
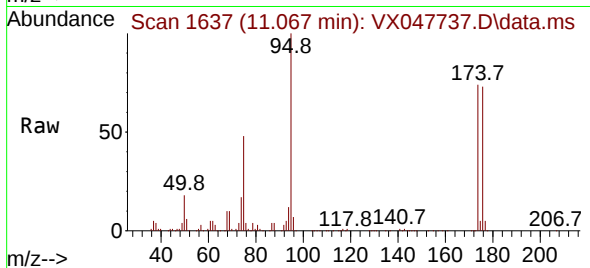
Tgt Ion: 95 Resp: 133881

Ion Ratio Lower Upper

95 100

174 71.9 0.0 141.6

176 69.5 0.0 138.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. 0.000 min

Lab File: VX047737.D

Acq: 23 Sep 2025 16:34

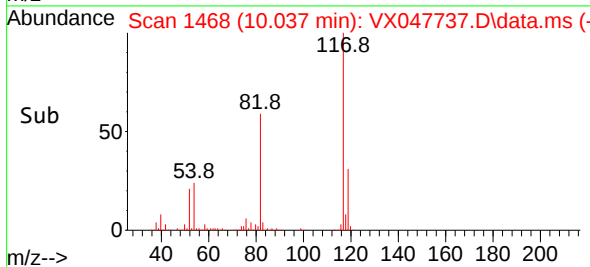
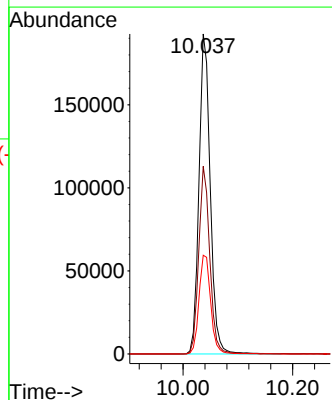
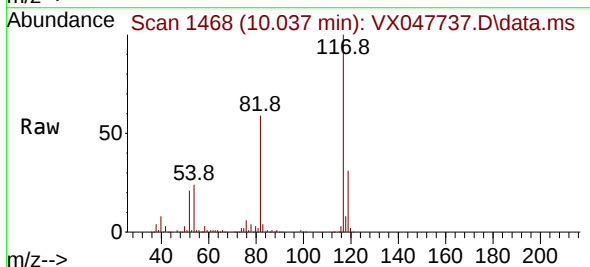
Tgt Ion: 117 Resp: 275514

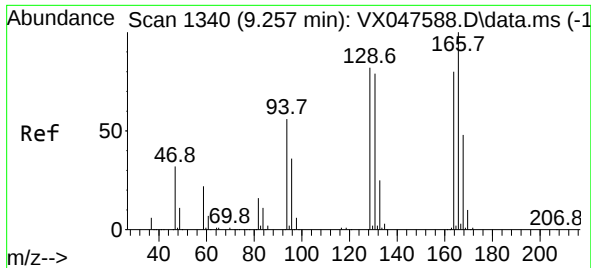
Ion Ratio Lower Upper

117 100

82 58.7 47.8 71.6

119 30.8 25.2 37.8

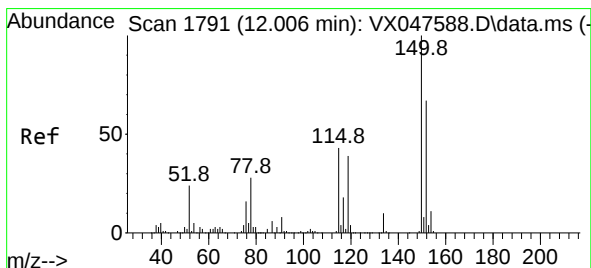
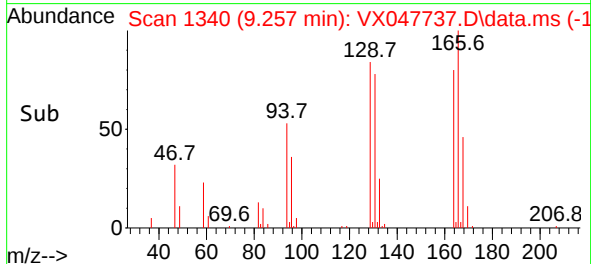
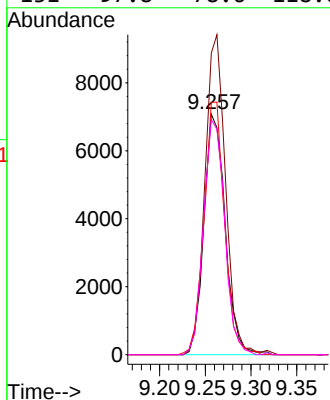
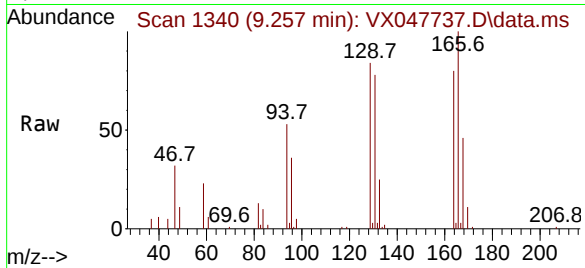




#64
Tetrachloroethene
Concen: 6.385 ug/l
RT: 9.257 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

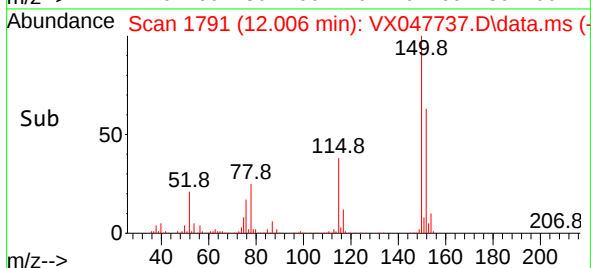
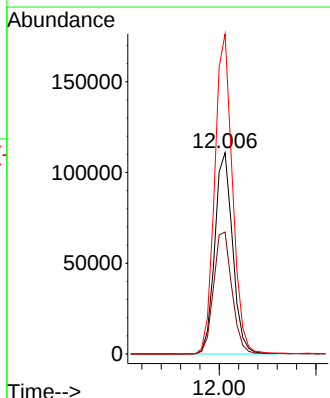
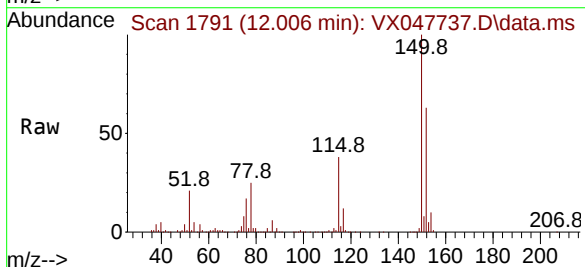
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

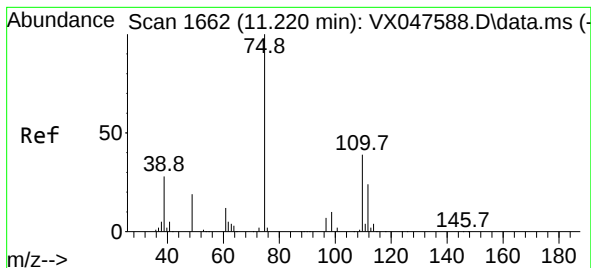
Tgt Ion:164 Resp: 11467
Ion Ratio Lower Upper
164 100
166 125.4 100.2 150.2
129 105.0 81.8 122.6
131 97.8 78.6 118.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion:152 Resp: 141902
Ion Ratio Lower Upper
152 100
115 62.7 44.9 134.5
150 158.8 0.0 352.0





#76

1,2,3-Trichloropropane

Concen: 23.760 ug/l

RT: 11.061 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX047737.D

Acq: 23 Sep 2025 16:34

Instrument :

MSVOA_X

ClientSampleId :

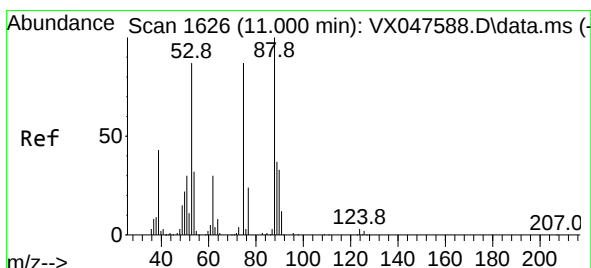
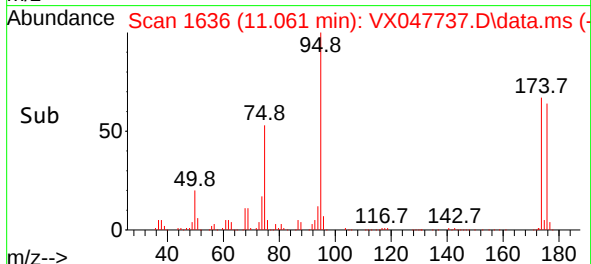
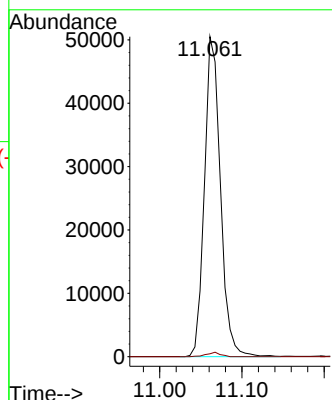
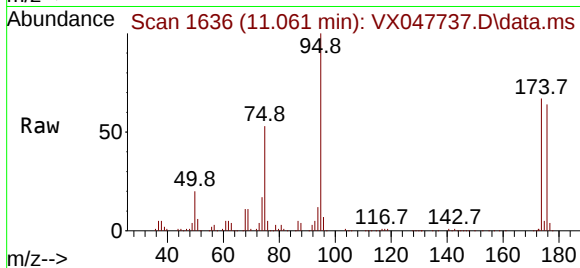
RE120D1-20250912

Tgt Ion: 75 Resp: 68263

Ion Ratio Lower Upper

75 100

77 1.2 18.8 56.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.590 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. 0.061 min

Lab File: VX047737.D

Acq: 23 Sep 2025 16:34

Tgt Ion: 75 Resp: 68263

Ion Ratio Lower Upper

75 100

53 0.0 83.4 125.2#

89 0.0 36.3 54.5#

