

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
 Data File : VX047671.D
 Acq On : 19 Sep 2025 13:32
 Operator : JC/MD
 Sample : Q3095-27RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE117D1-20250910

Quant Time: Sep 20 00:31:18 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)

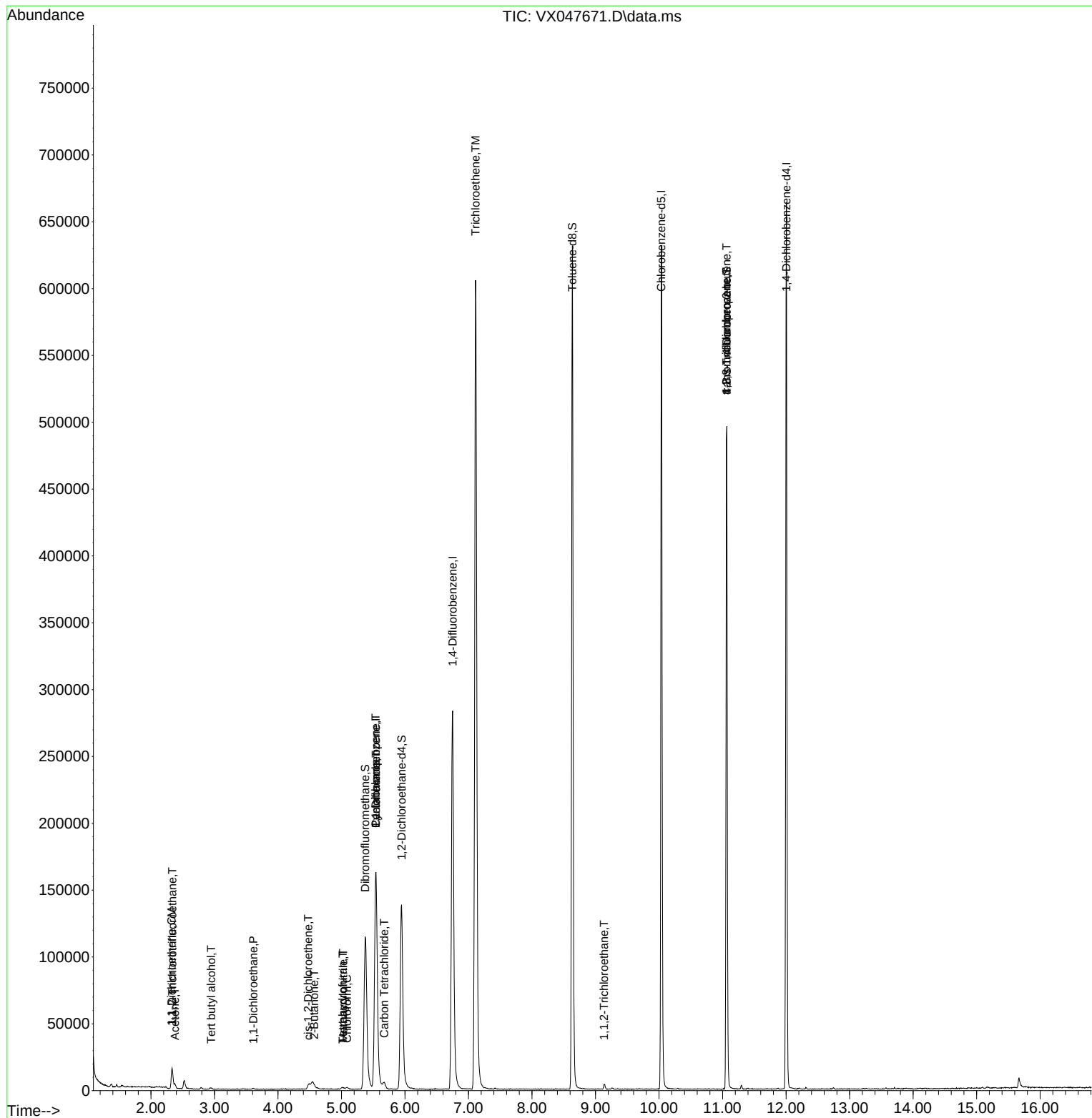
Internal Standards						
1) Pentafluorobenzene	5.544	168	166057	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	309930	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	283052	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	136445	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	149884	56.705	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	113.420%
35) Dibromofluoromethane	5.373	113	111158	53.478	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	106.960%
50) Toluene-d8	8.635	98	384319	53.435	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	106.880%
62) 4-Bromofluorobenzene	11.061	95	147130	53.902	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	107.800%
Target Compounds						
						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	3704	1.928	ug/l	96
11) Tert butyl alcohol	2.947	59	409	1.389	ug/l #	72
12) 1,1-Dichloroethene	2.325	96	3523	1.786	ug/l	96
16) Acetone	2.380	43	3653	3.179	ug/l #	84
24) 1,1-Dichloroethane	3.611	63	1042	0.248	ug/l #	81
25) 2-Butanone	4.568	43	1638	1.143	ug/l #	82
27) cis-1,2-Dichloroethene	4.477	96	2848	1.095	ug/l	97
29) Tetrahydrofuran	5.019	42	1371	1.590	ug/l #	72
30) Chloroform	5.087	83	1834	0.433	ug/l	84
31) Cyclohexane	5.544	56	3765	1.078	ug/l #	1
36) 1,1-Dichloropropene	5.538	75	14193	4.673	ug/l #	52
38) Carbon Tetrachloride	5.672	117	4425	1.341	ug/l	90
41) Methacrylonitrile	5.026	41	830	0.494	ug/l #	46
44) Trichloroethene	7.111	130	256799	115.143	ug/l	94
55) 1,1,2-Trichloroethane	9.135	97	1332	0.608	ug/l	91
76) 1,2,3-Trichloropropane	11.061	75	75431	27.304	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	75431	69.630	ug/l #	8

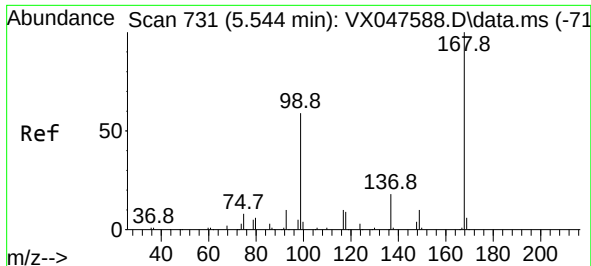
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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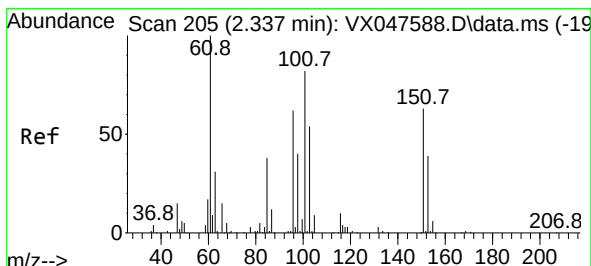
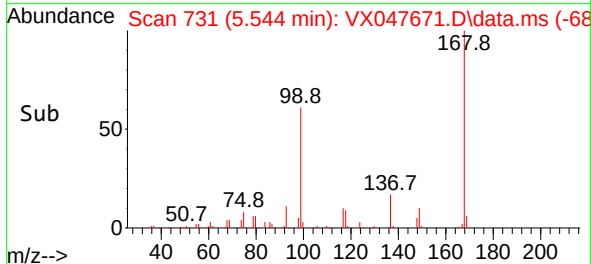
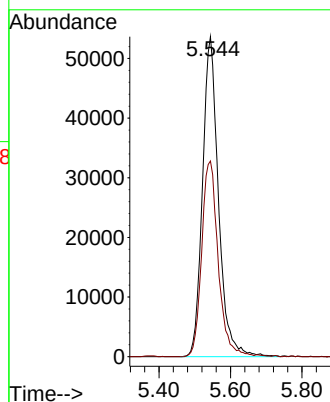
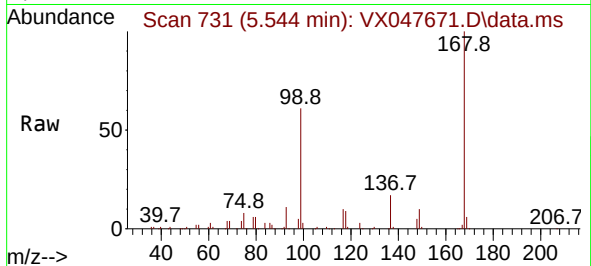




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.000 min
Lab File: VX047671.D
Acq: 19 Sep 2025 13:32

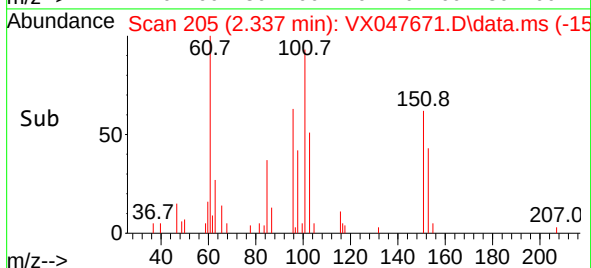
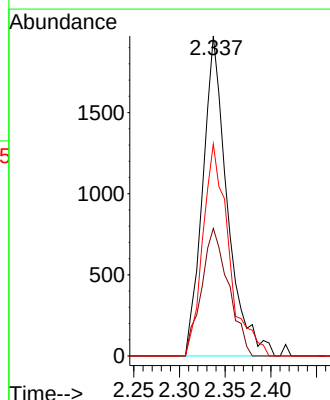
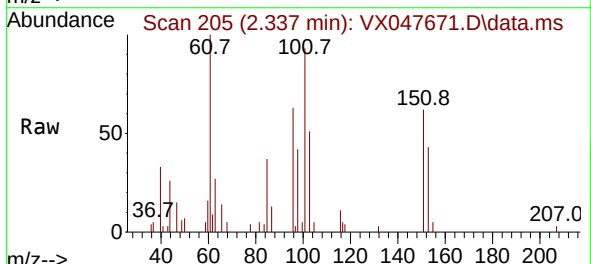
Instrument :
MSVOA_X
ClientSampleId :
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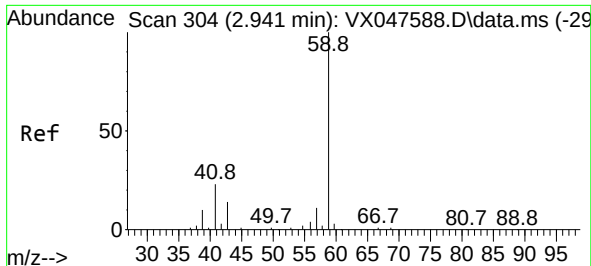
Tgt Ion:168 Resp: 166057
Ion Ratio Lower Upper
168 100
99 61.1 48.8 73.2



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.928 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047671.D
Acq: 19 Sep 2025 13:32

Tgt Ion:101 Resp: 3704
Ion Ratio Lower Upper
101 100
85 43.4 35.5 53.3
151 69.6 59.4 89.0

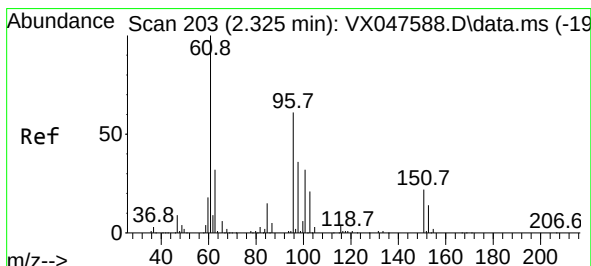
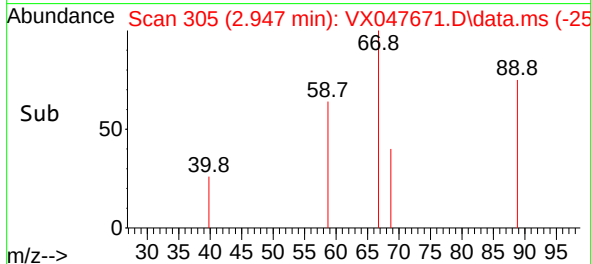
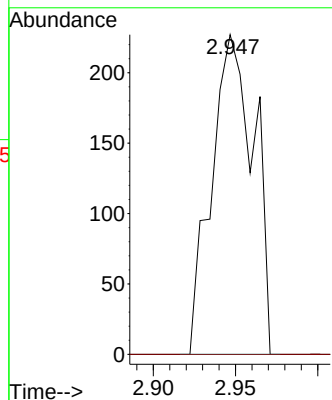
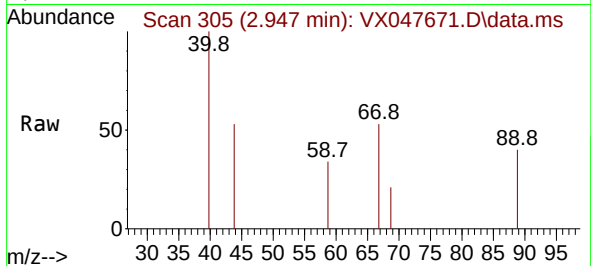




#11
Tert butyl alcohol
Concen: 1.389 ug/l
RT: 2.947 min Scan# 304
Delta R.T. 0.006 min
Lab File: VX047671.D
Acq: 19 Sep 2025 13:32

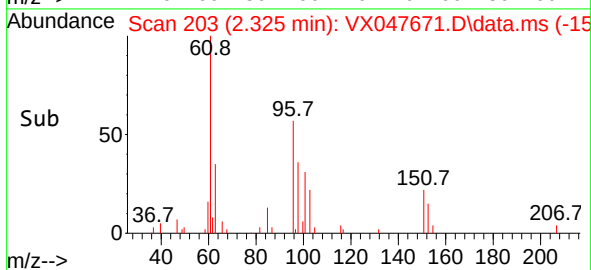
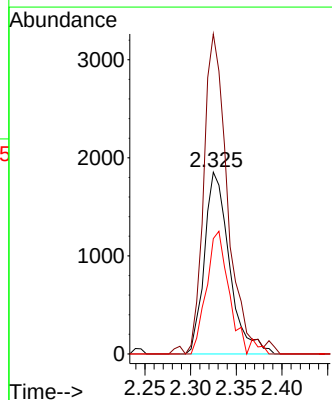
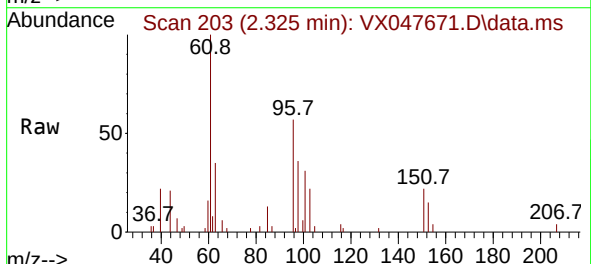
Instrument :
MSVOA_X
ClientSampleId :
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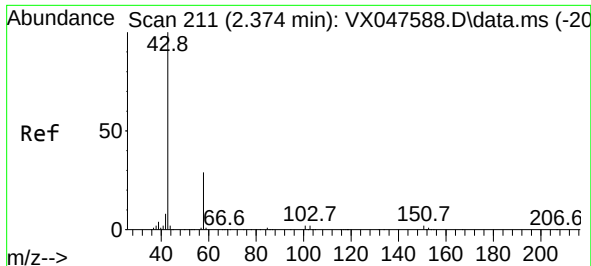
Tgt Ion: 59 Resp: 409
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#12
1,1-Dichloroethene
Concen: 1.786 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047671.D
Acq: 19 Sep 2025 13:32

Tgt Ion: 96 Resp: 3523
Ion Ratio Lower Upper
96 100
61 170.7 131.0 196.6
98 61.6 47.7 71.5

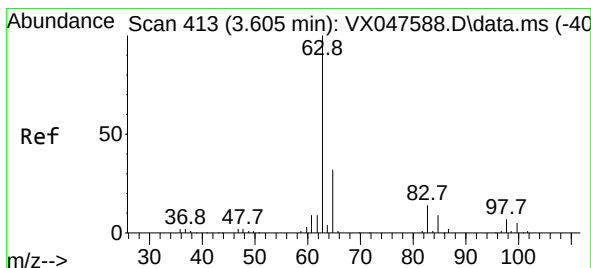
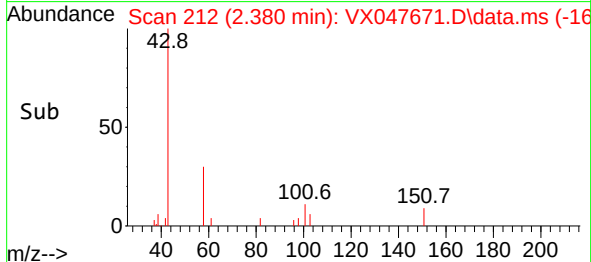
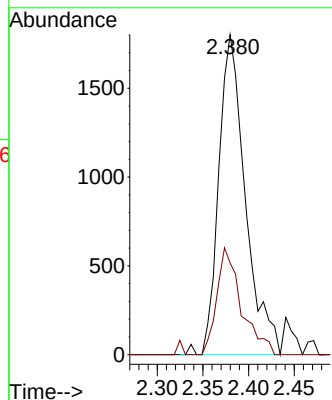
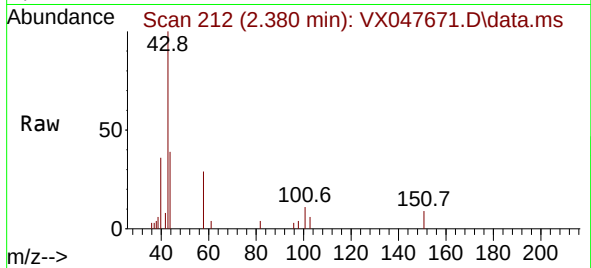




#16
Acetone
Concen: 3.179 ug/l
RT: 2.380 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX047671.D
Acq: 19 Sep 2025 13:32

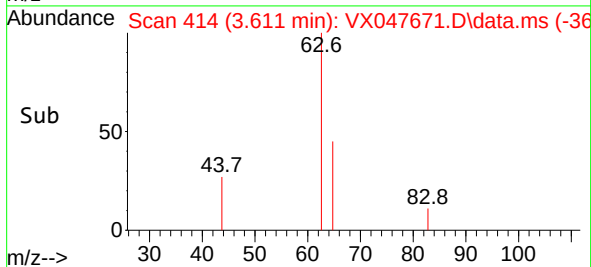
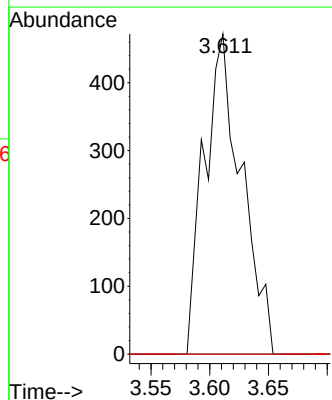
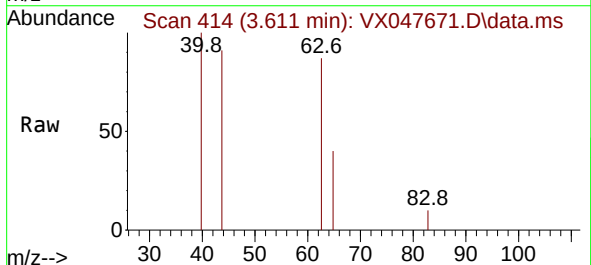
Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20250910

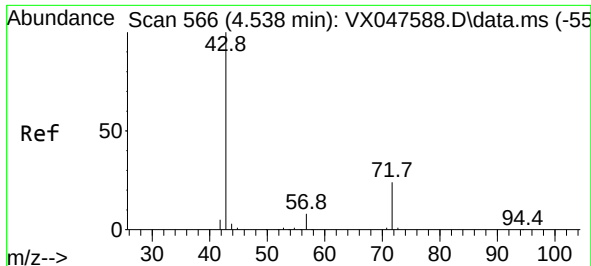
Tgt Ion: 43 Resp: 3653
Ion Ratio Lower Upper
43 100
58 20.6 23.4 35.0#



#24
1,1-Dichloroethane
Concen: 0.248 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047671.D
Acq: 19 Sep 2025 13:32

Tgt Ion: 63 Resp: 1042
Ion Ratio Lower Upper
63 100
98 0.0 3.8 11.2#
100 0.0 2.3 6.9#

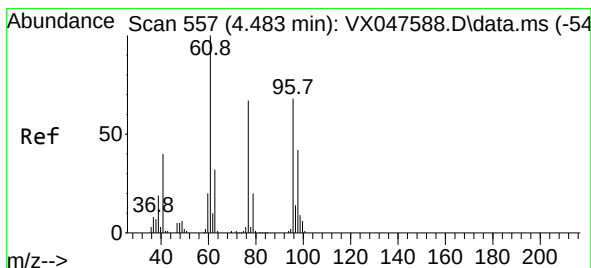
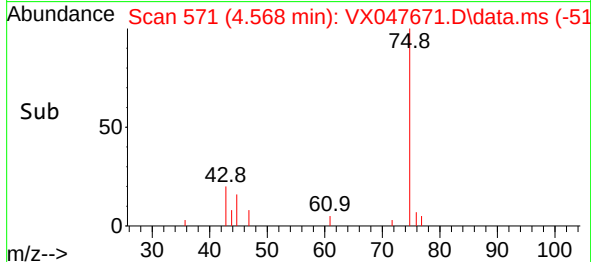
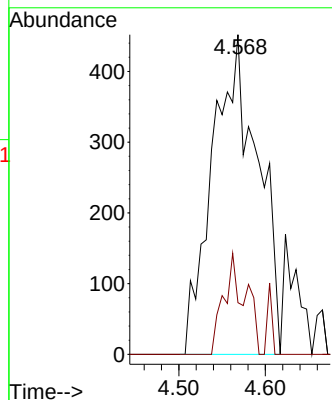
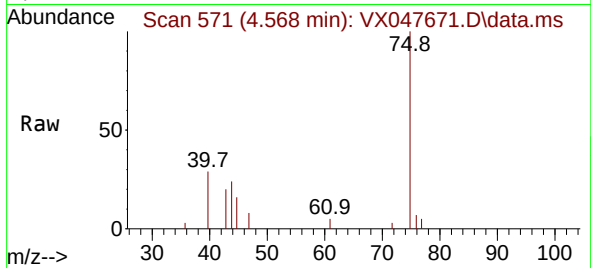




#25
2-Butanone
Concen: 1.143 ug/l
RT: 4.568 min Scan# 51
Delta R.T. 0.030 min
Lab File: VX047671.D
Acq: 19 Sep 2025 13:32

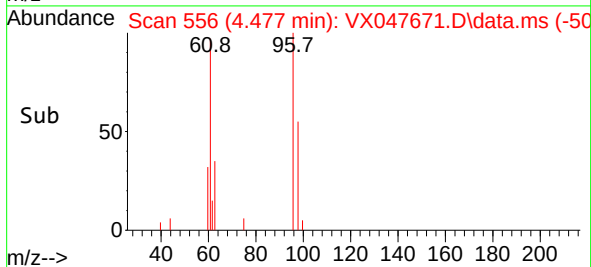
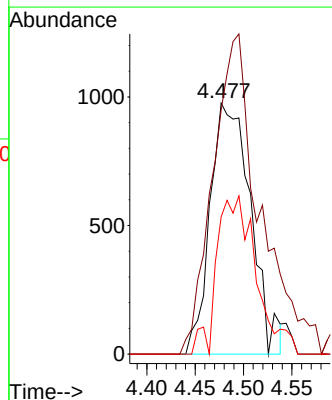
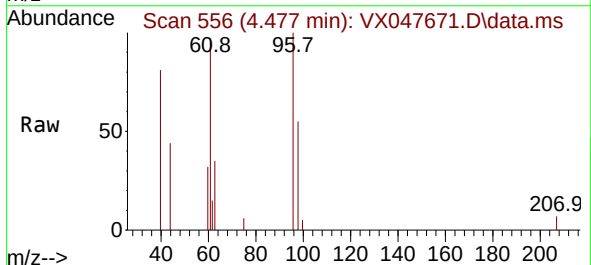
Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20250910

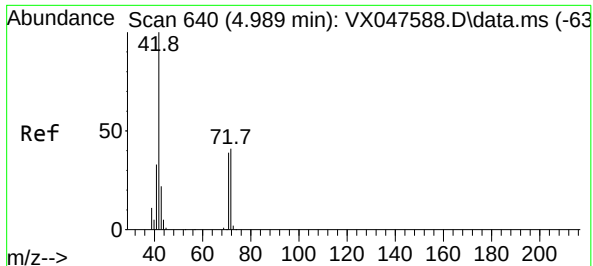
Tgt Ion: 43 Resp: 1638
Ion Ratio Lower Upper
43 100
72 16.2 20.1 30.1#



#27
cis-1,2-Dichloroethene
Concen: 1.095 ug/l
RT: 4.477 min Scan# 556
Delta R.T. -0.006 min
Lab File: VX047671.D
Acq: 19 Sep 2025 13:32

Tgt Ion: 96 Resp: 2848
Ion Ratio Lower Upper
96 100
61 147.3 0.0 303.2
98 61.3 0.0 127.8





#29

Tetrahydrofuran

Concen: 1.590 ug/l

RT: 5.019 min Scan# 64

Delta R.T. 0.030 min

Lab File: VX047671.D

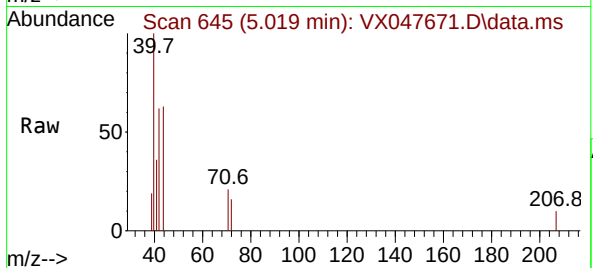
Acq: 19 Sep 2025 13:32

Instrument :

MSVOA_X

ClientSampleId :

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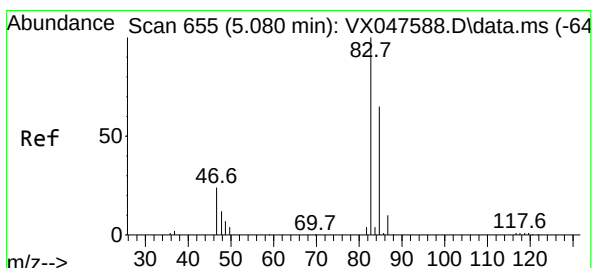
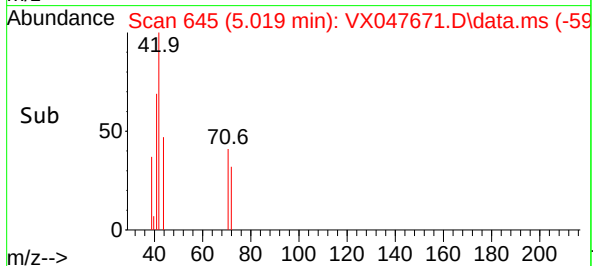
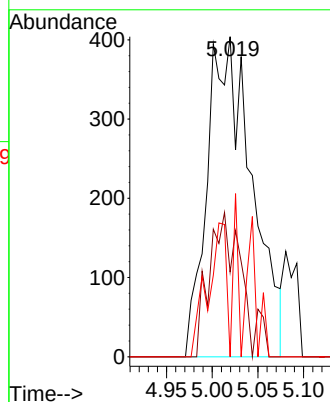
Tgt Ion: 42 Resp: 1371

Ion Ratio Lower Upper

42 100

72 29.9 34.2 51.2#

71 17.3 31.9 47.9#



#30

Chloroform

Concen: 0.433 ug/l

RT: 5.087 min Scan# 656

Delta R.T. 0.006 min

Lab File: VX047671.D

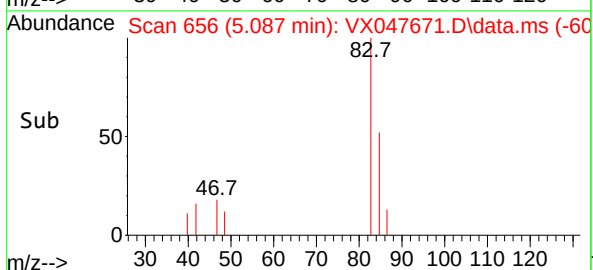
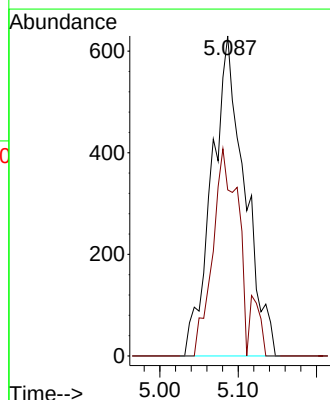
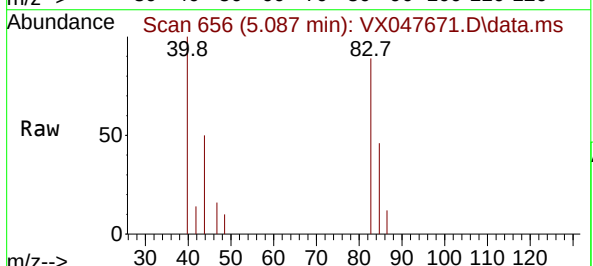
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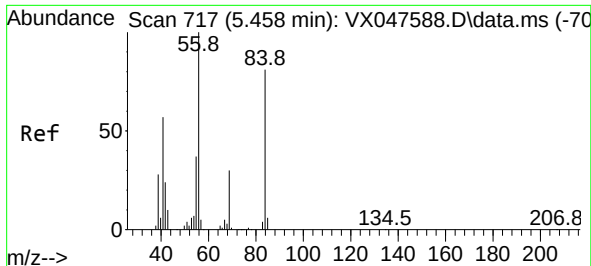
Tgt Ion: 83 Resp: 1834

Ion Ratio Lower Upper

83 100

85 51.9 51.8 77.6

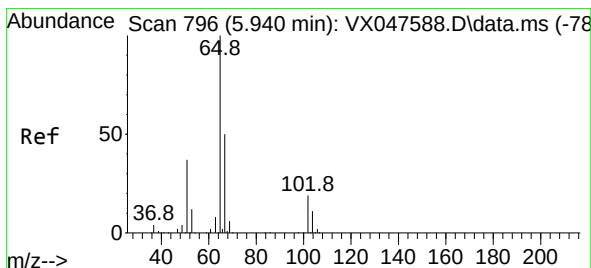
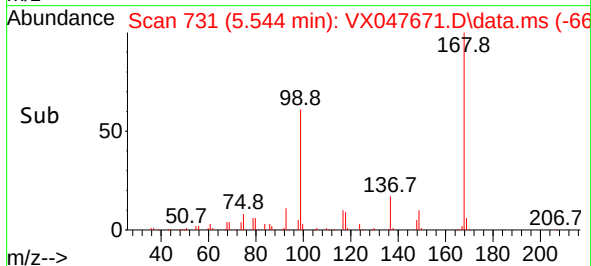
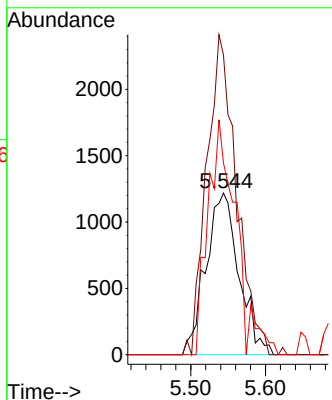
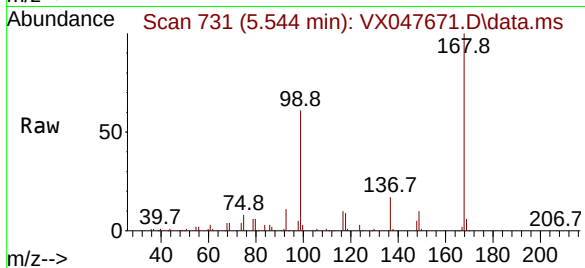




#31
Cyclohexane
Concen: 1.078 ug/l
RT: 5.544 min Scan# 717
Delta R.T. 0.085 min
Lab File: VX047671.D
Acq: 19 Sep 2025 13:32

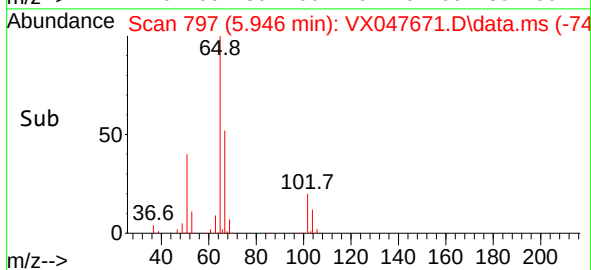
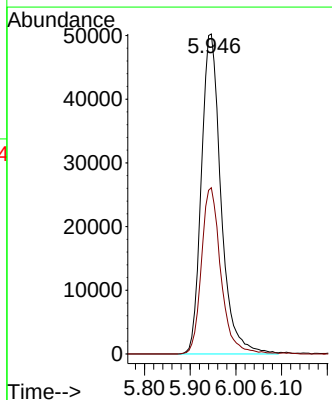
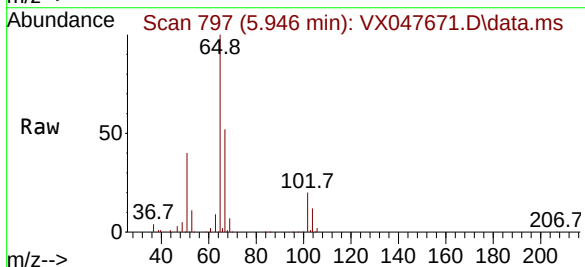
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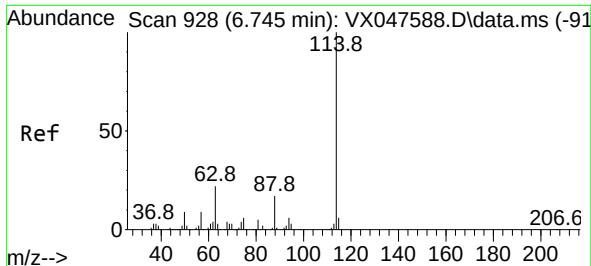
Tgt Ion: 56 Resp: 3765
Ion Ratio Lower Upper
56 100
69 185.2 23.8 35.8#
84 118.6 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 56.705 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047671.D
Acq: 19 Sep 2025 13:32

Tgt Ion: 65 Resp: 149884
Ion Ratio Lower Upper
65 100
67 51.5 0.0 103.0

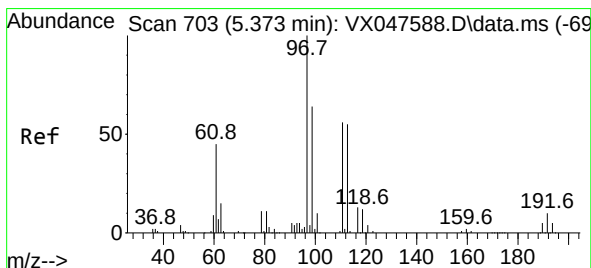
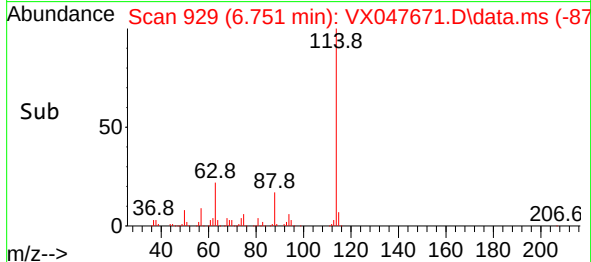
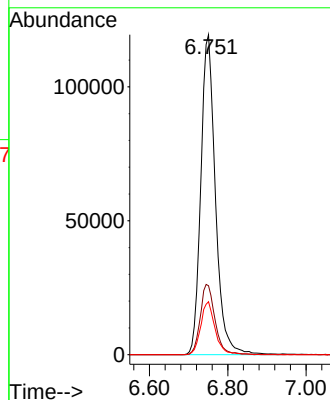
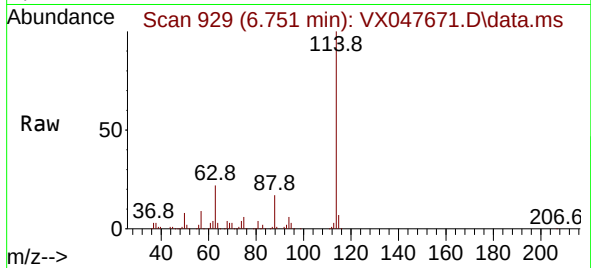




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX047671.D
Acq: 19 Sep 2025 13:32

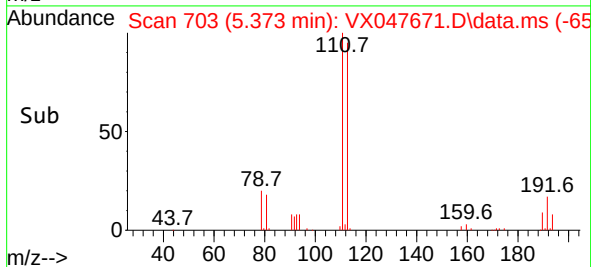
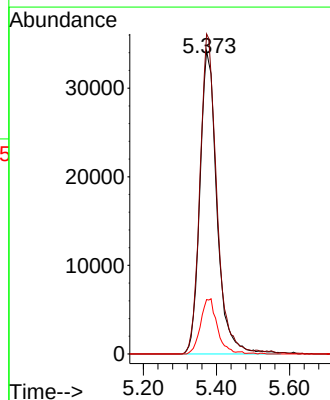
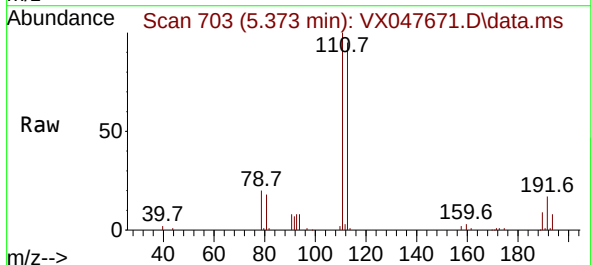
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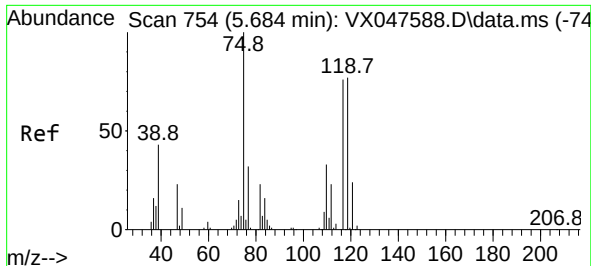
Tgt Ion:114 Resp: 309930
Ion Ratio Lower Upper
114 100
63 21.6 0.0 44.0
88 16.5 0.0 34.2



#35
Dibromofluoromethane
Concen: 53.478 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047671.D
Acq: 19 Sep 2025 13:32

Tgt Ion:113 Resp: 111158
Ion Ratio Lower Upper
113 100
111 103.4 80.9 121.3
192 17.7 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.673 ug/l

RT: 5.538 min Scan# 71

Delta R.T. -0.146 min

Lab File: VX047671.D

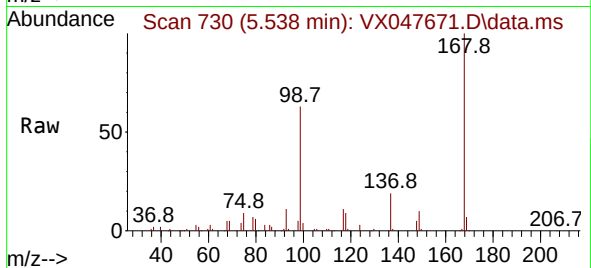
Acq: 19 Sep 2025 13:32

Instrument :

MSVOA_X

ClientSampleId :

RE117D1-20250910



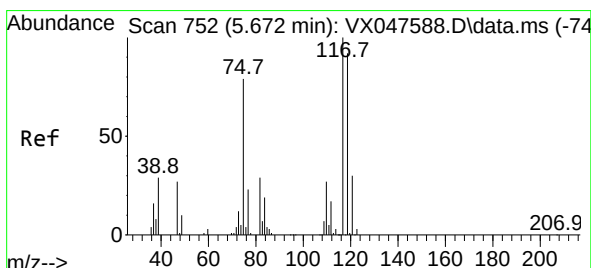
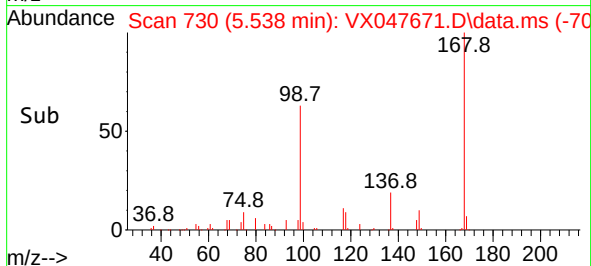
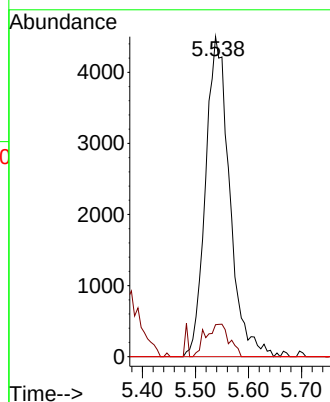
Tgt Ion: 75 Resp: 14193

Ion Ratio Lower Upper

75 100

110 10.0 16.7 50.1#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 1.341 ug/l

RT: 5.672 min Scan# 752

Delta R.T. -0.000 min

Lab File: VX047671.D

Acq: 19 Sep 2025 13:32

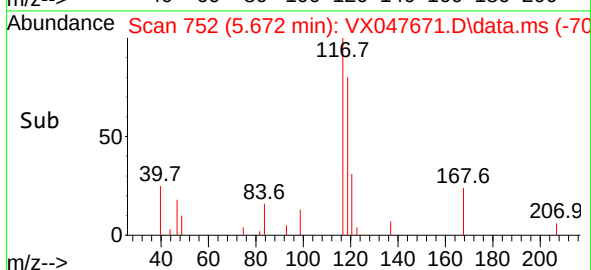
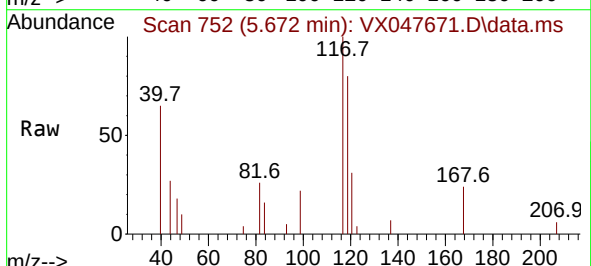
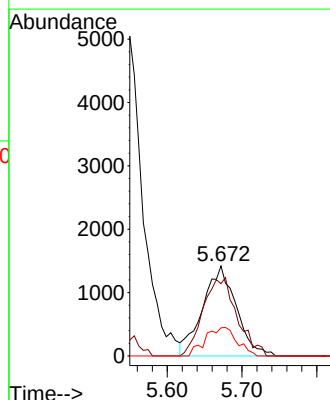
Tgt Ion: 117 Resp: 4425

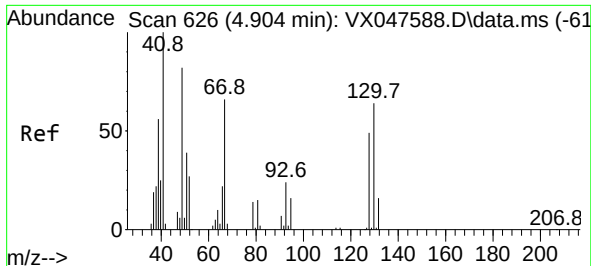
Ion Ratio Lower Upper

117 100

119 80.4 73.4 110.2

121 31.2 23.8 35.6

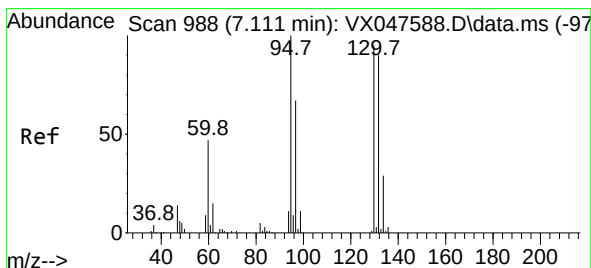
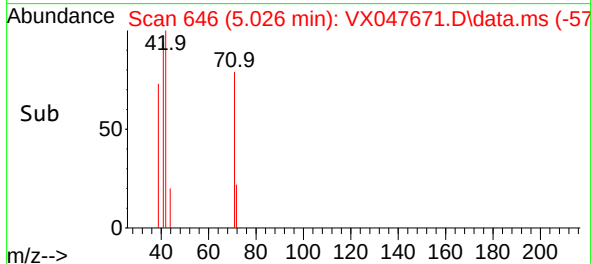
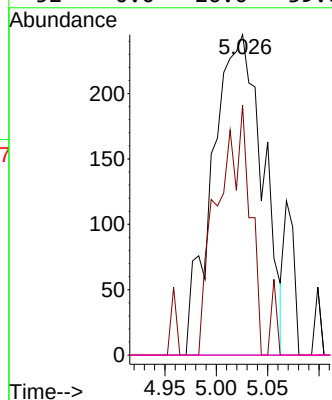
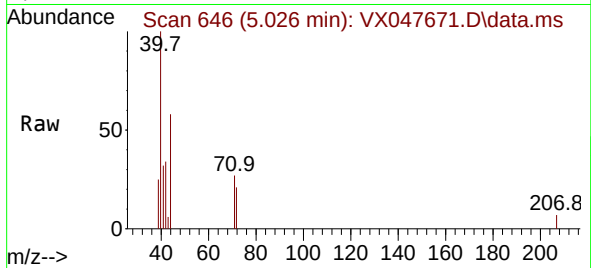




#41
Methacrylonitrile
Concen: 0.494 ug/l
RT: 5.026 min Scan# 641
Delta R.T. 0.122 min
Lab File: VX047671.D
Acq: 19 Sep 2025 13:32

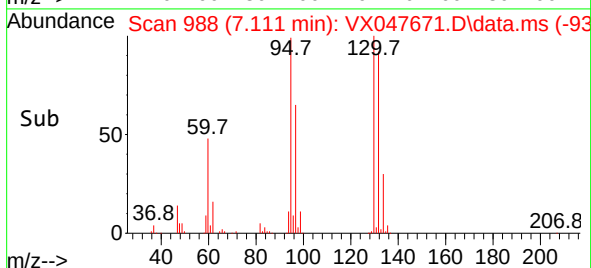
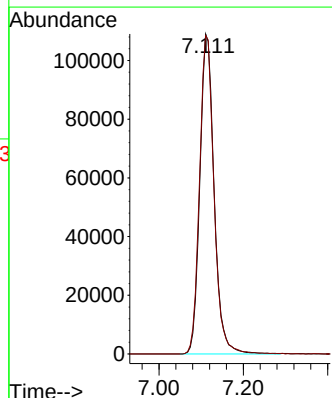
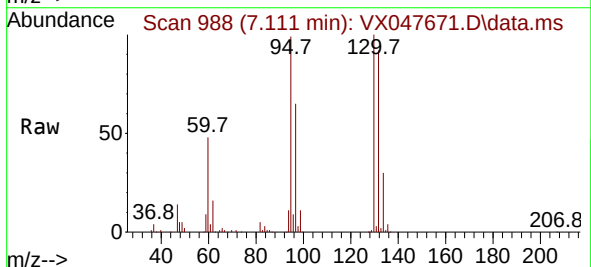
Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20250910

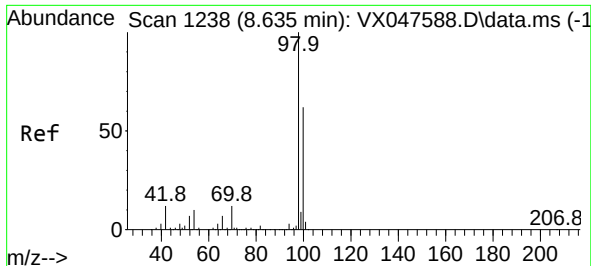
Tgt Ion: 41 Resp: 830
Ion Ratio Lower Upper
41 100
39 49.8 43.3 64.9
67 0.0 58.6 87.8#
52 0.0 26.0 39.0#



#44
Trichloroethene
Concen: 115.143 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047671.D
Acq: 19 Sep 2025 13:32

Tgt Ion:130 Resp: 256799
Ion Ratio Lower Upper
130 100
95 99.5 0.0 210.8

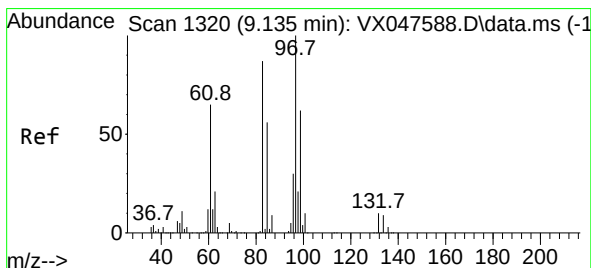
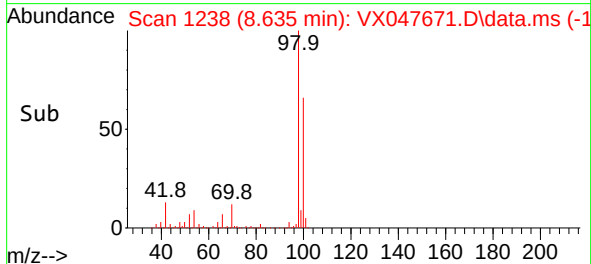
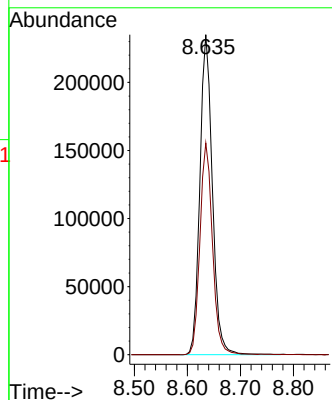
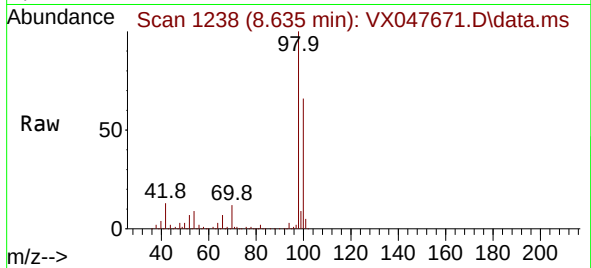




#50
Toluene-d8
Concen: 53.435 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047671.D
Acq: 19 Sep 2025 13:32

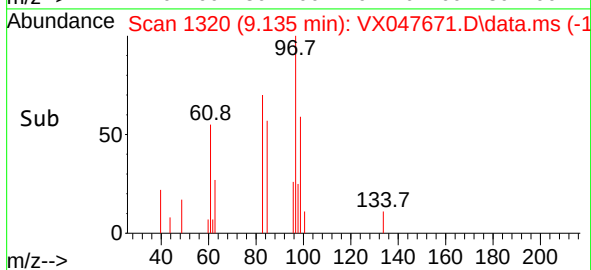
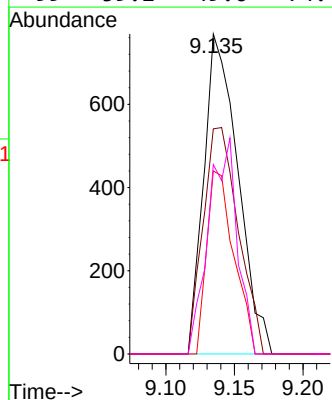
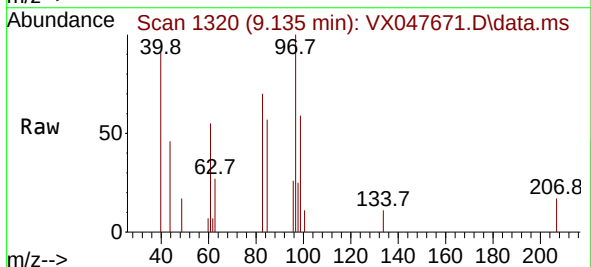
Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20250910

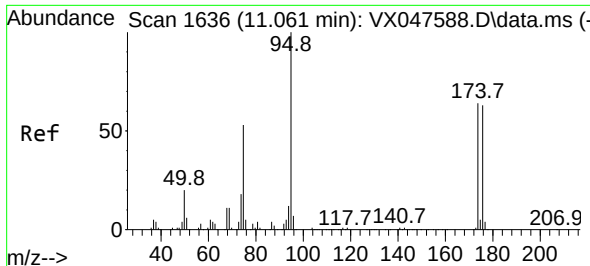
Tgt Ion: 98 Resp: 384319
Ion Ratio Lower Upper
98 100
100 66.5 53.0 79.4



#55
1,1,2-Trichloroethane
Concen: 0.608 ug/l
RT: 9.135 min Scan# 1320
Delta R.T. -0.000 min
Lab File: VX047671.D
Acq: 19 Sep 2025 13:32

Tgt Ion: 97 Resp: 1332
Ion Ratio Lower Upper
97 100
83 70.4 69.6 104.4
85 57.2 45.0 67.6
99 59.2 49.6 74.4

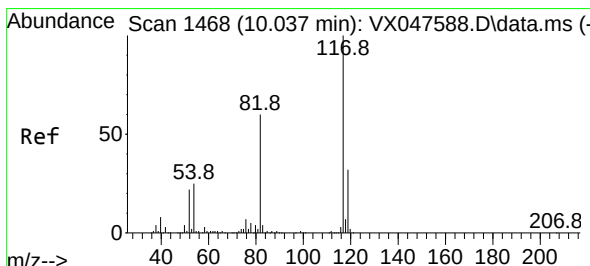
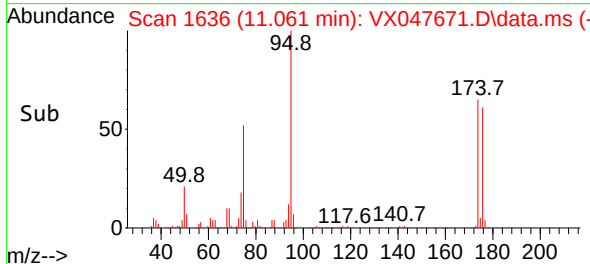
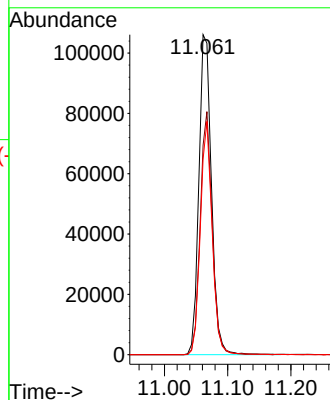
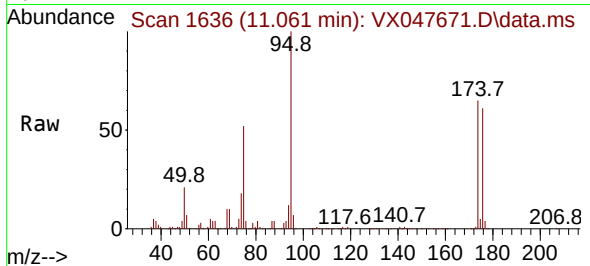




#62
4-Bromofluorobenzene
Concen: 53.902 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047671.D
Acq: 19 Sep 2025 13:32

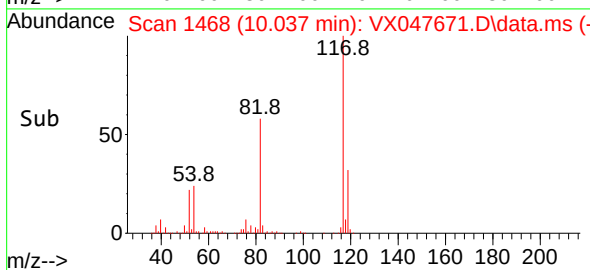
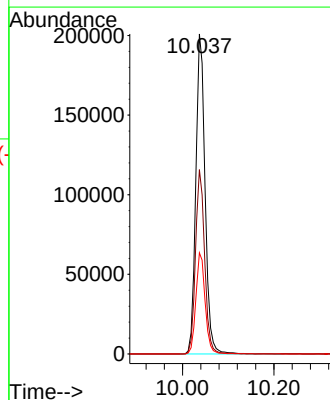
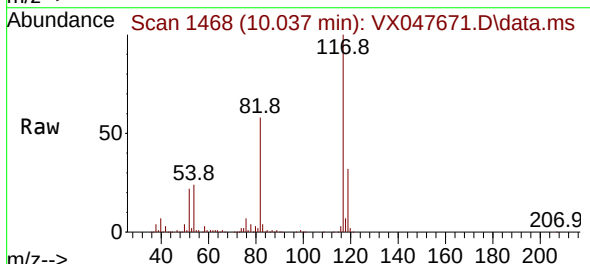
Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20250910

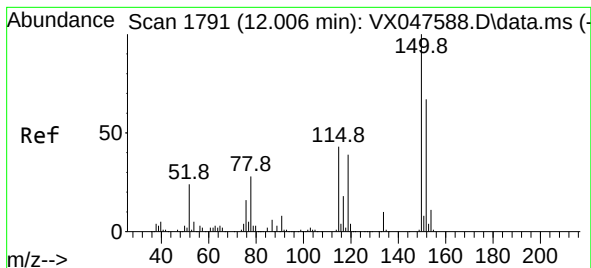
Tgt Ion: 95 Resp: 147130
Ion Ratio Lower Upper
95 100
174 72.4 0.0 141.6
176 68.6 0.0 138.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047671.D
Acq: 19 Sep 2025 13:32

Tgt Ion: 117 Resp: 283052
Ion Ratio Lower Upper
117 100
82 57.6 47.8 71.6
119 31.6 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX047671.D

Acq: 19 Sep 2025 13:32

Instrument :

MSVOA_X

ClientSampleId :

RE117D1-20250910

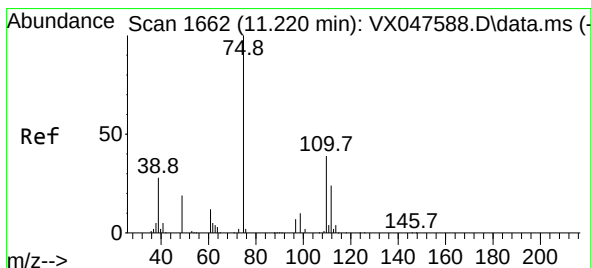
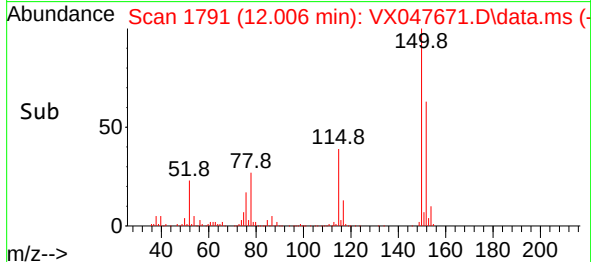
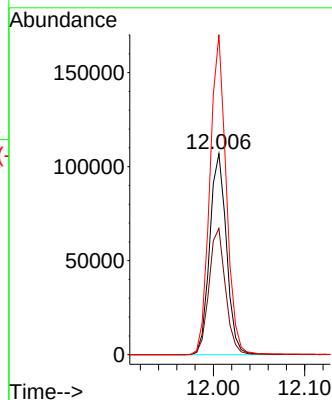
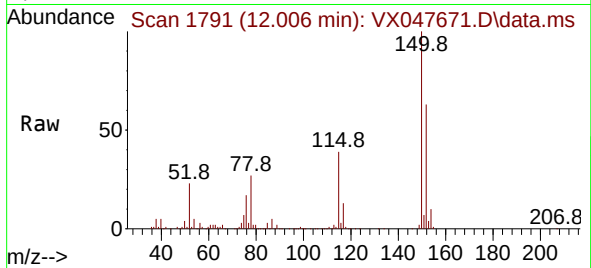
Tgt Ion:152 Resp: 136445

Ion Ratio Lower Upper

152 100

115 62.1 44.9 134.5

150 155.4 0.0 352.0



#76

1,2,3-Trichloropropane

Concen: 27.304 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.159 min

Lab File: VX047671.D

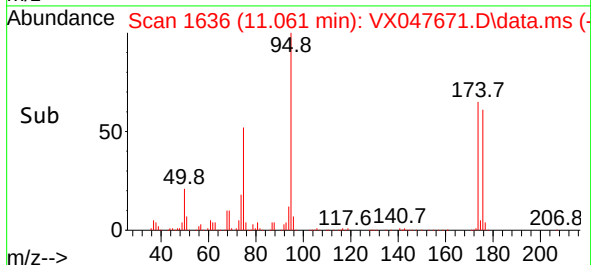
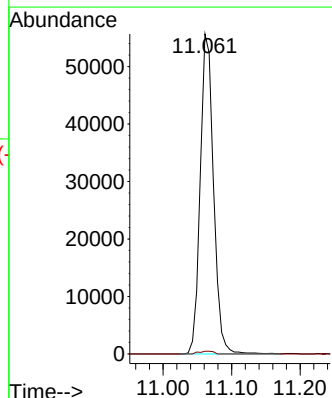
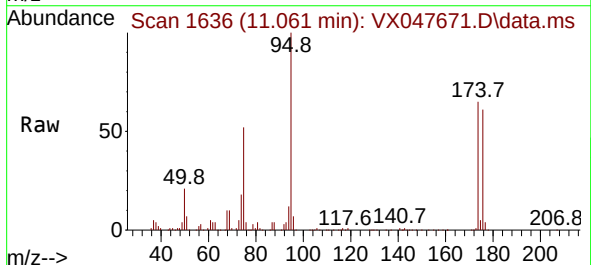
Acq: 19 Sep 2025 13:32

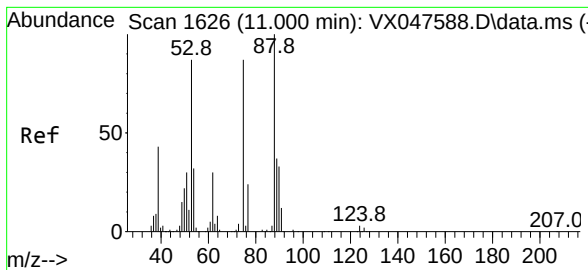
Tgt Ion: 75 Resp: 75431

Ion Ratio Lower Upper

75 100

77 0.9 18.8 56.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.630 ug/l
 RT: 11.061 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX047671.D
 Acq: 19 Sep 2025 13:32

Instrument :
 MSVOA_X
 ClientSampleId :
 RE117D1-20250910

Tgt Ion: 75 Resp: 75431
 Ion Ratio Lower Upper
 75 100
 53 0.0 83.4 125.2#
 89 0.0 36.3 54.5#

