

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102325\
 Data File : VX048326.D
 Acq On : 23 Oct 2025 15:26
 Operator : JC/MD
 Sample : Q3414-09 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 24 05:47:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

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

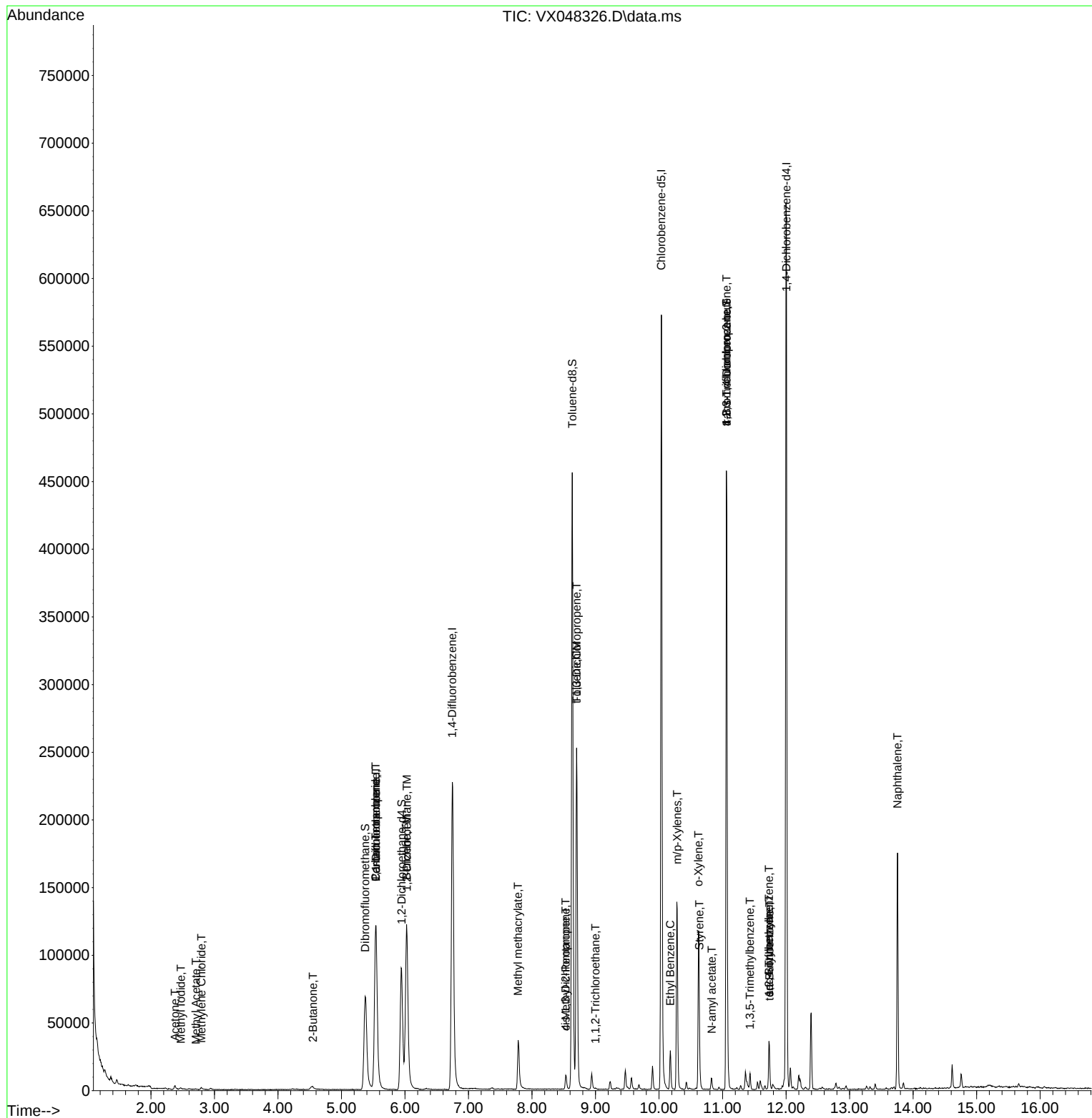
Internal Standards						
1) Pentafluorobenzene	5.544	168	121968	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	246326	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	256819	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	135057	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	100325	58.667	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 117.340%#			
35) Dibromofluoromethane	5.373	113	67817	40.328	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 80.660%			
50) Toluene-d8	8.635	98	279237	47.374	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 94.740%			
62) 4-Bromofluorobenzene	11.061	95	127116	56.688	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 113.380%			
Target Compounds						Qvalue
10) Methyl Iodide	2.471	142	1527	0.923	ug/l	96
16) Acetone	2.380	43	3887	6.626	ug/l	90
18) Methyl Acetate	2.709	43	726	0.593	ug/l #	69
20) Methylene Chloride	2.794	84	760	0.532	ug/l #	81
25) 2-Butanone	4.550	43	394	0.531	ug/l #	50
36) 1,1-Dichloropropene	5.544	75	10565	4.420	ug/l #	50
38) Carbon Tetrachloride	5.538	117	13119	4.449	ug/l #	16
40) Benzene	6.025	78	151074	21.770	ug/l	99
42) 1,2-Dichloroethane	6.031	62	1559	0.609	ug/l #	76
48) Methyl methacrylate	7.781	41	4541	2.765	ug/l #	44
51) 4-Methyl-2-Pentanone	8.531	43	4480	2.388	ug/l #	44
52) Toluene	8.702	92	100178	22.724	ug/l	97
53) t-1,3-Dichloropropene	8.702	75	1182	0.442	ug/l #	1
54) cis-1,3-Dichloropropene	8.531	75	1751	0.607	ug/l #	39
55) 1,1,2-Trichloroethane	9.000	97	497	0.303	ug/l #	14
67) Ethyl Benzene	10.177	91	16799	1.708	ug/l	91
68) m/p-Xylenes	10.287	106	32839	8.986	ug/l	98
69) o-Xylene	10.622	106	25031	7.094	ug/l	97
70) Styrene	10.634	104	4598	0.765	ug/l #	4
74) N-amyl acetate	10.829	43	4256	1.216	ug/l	97
76) 1,2,3-Trichloropropane	11.061	75	68091	31.089	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.433	105	5131	0.629	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.061	75	68091	75.638	ug/l #	10
83) tert-Butylbenzene	11.738	119	1742	0.208	ug/l #	41
84) 1,2,4-Trimethylbenzene	11.732	105	15664	1.923	ug/l	93
85) sec-Butylbenzene	11.732	105	15664	1.552	ug/l #	56
95) Naphthalene	13.756	128	100160	12.769	ug/l	99

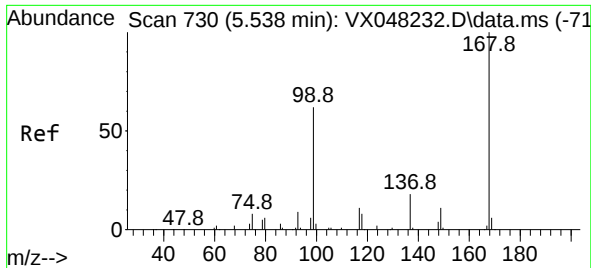
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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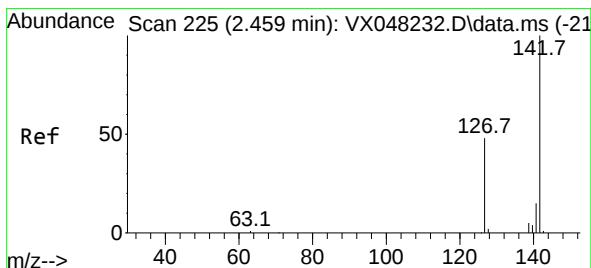
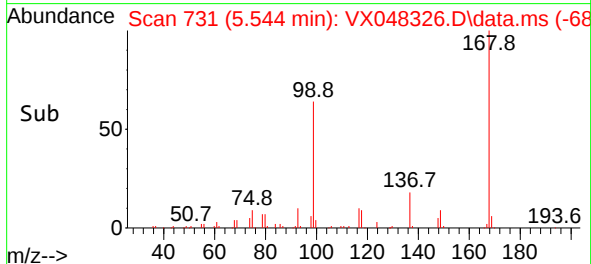
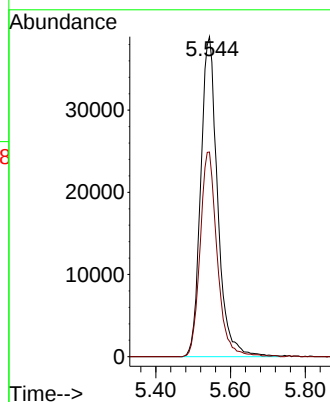
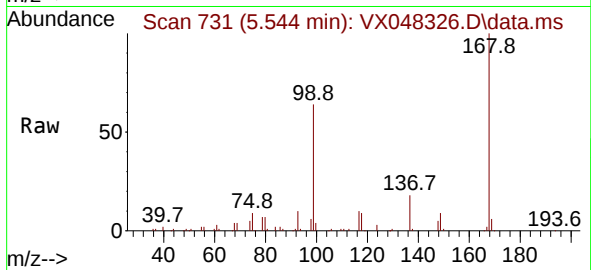




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048326.D
Acq: 23 Oct 2025 15:26

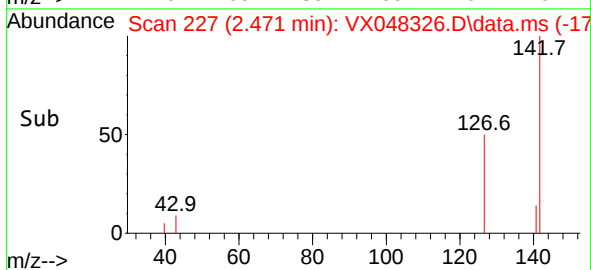
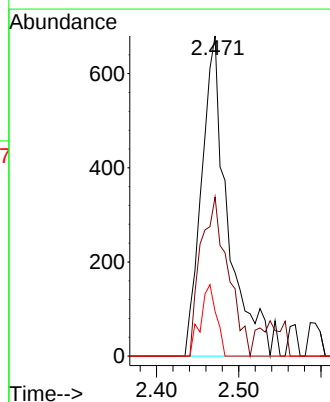
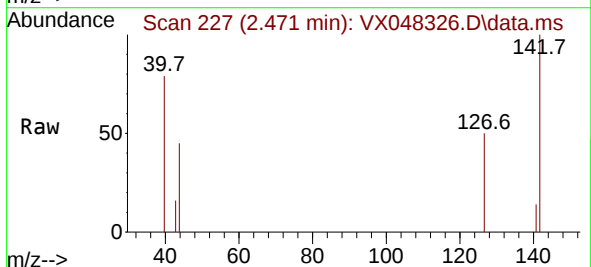
Instrument :
MSVOA_X
ClientSampleId :

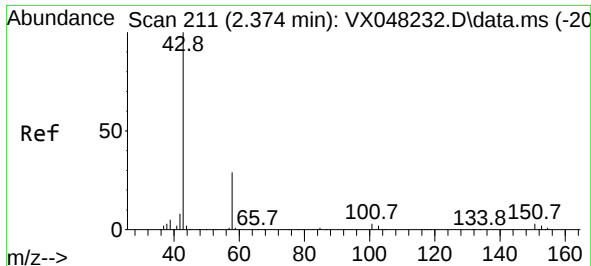
Tgt Ion:168 Resp: 121968
Ion Ratio Lower Upper
168 100
99 64.0 46.4 69.6



#10
Methyl Iodide
Concen: 0.923 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.012 min
Lab File: VX048326.D
Acq: 23 Oct 2025 15:26

Tgt Ion:142 Resp: 1527
Ion Ratio Lower Upper
142 100
127 50.9 38.5 57.7
141 13.4 11.6 17.4

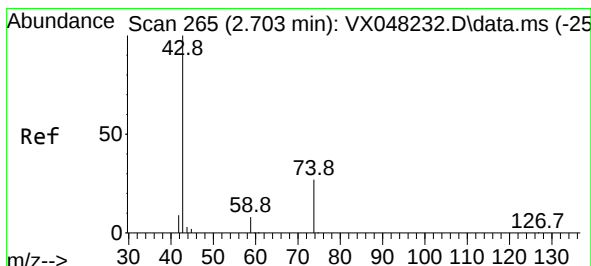
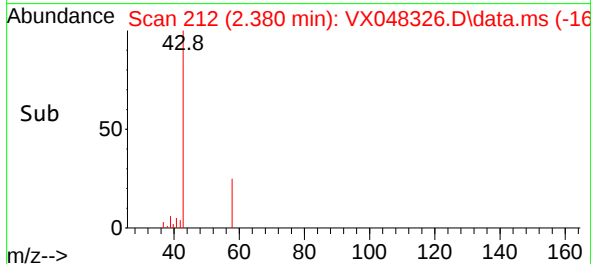
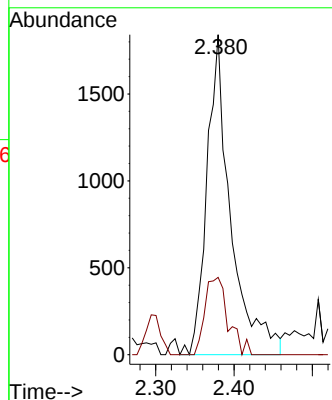
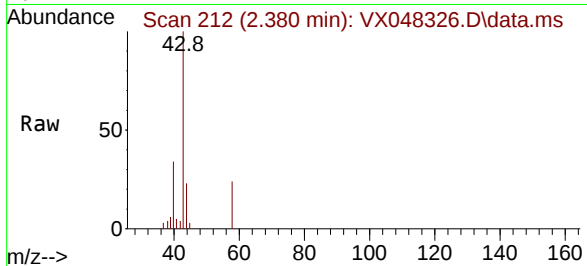




#16
Acetone
Concen: 6.626 ug/l
RT: 2.380 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX048326.D
Acq: 23 Oct 2025 15:26

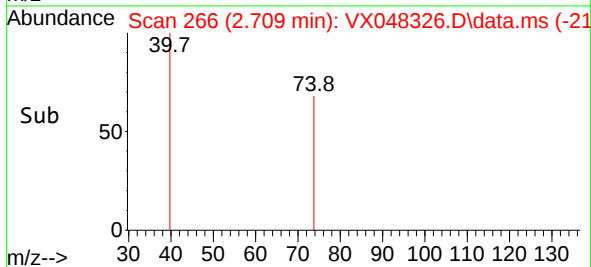
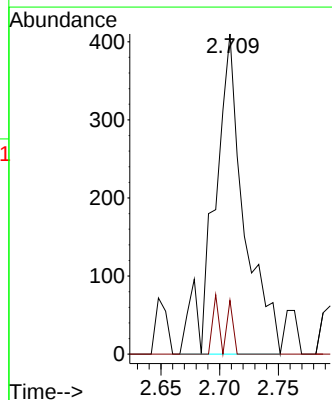
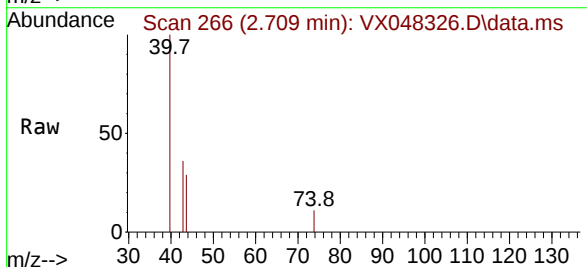
Instrument :
MSVOA_X
ClientSampleId :

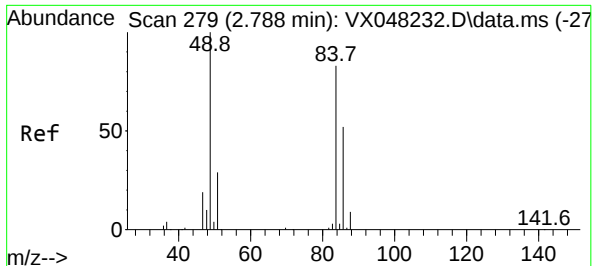
Tgt Ion: 43 Resp: 3887
Ion Ratio Lower Upper
43 100
58 24.2 23.4 35.2



#18
Methyl Acetate
Concen: 0.593 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.012 min
Lab File: VX048326.D
Acq: 23 Oct 2025 15:26

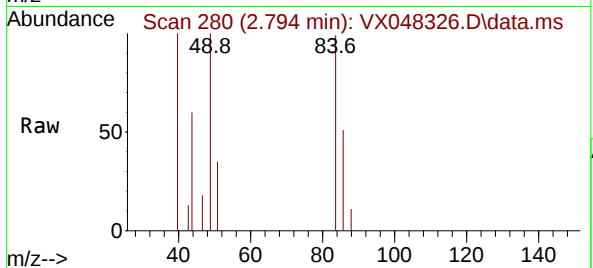
Tgt Ion: 43 Resp: 726
Ion Ratio Lower Upper
43 100
74 7.3 17.5 26.3#



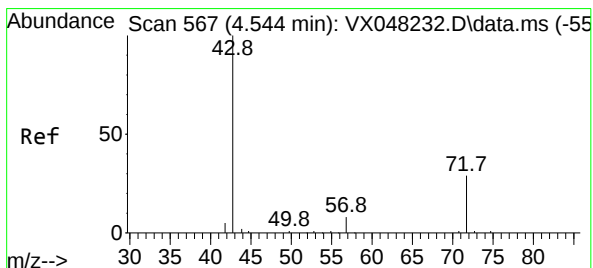
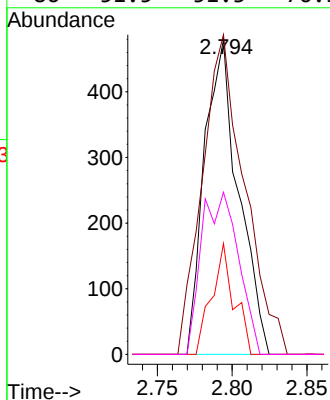


#20
Methylene Chloride
Concen: 0.532 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX048326.D
Acq: 23 Oct 2025 15:26

Instrument :
MSVOA_X
ClientSampleId :

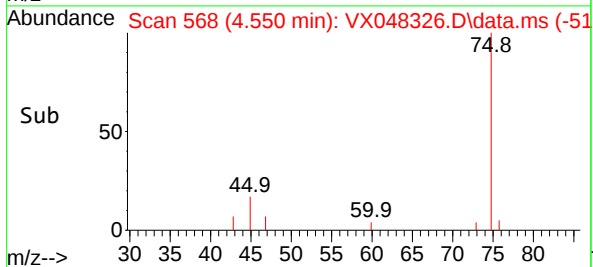
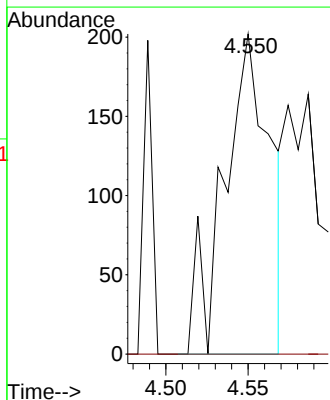
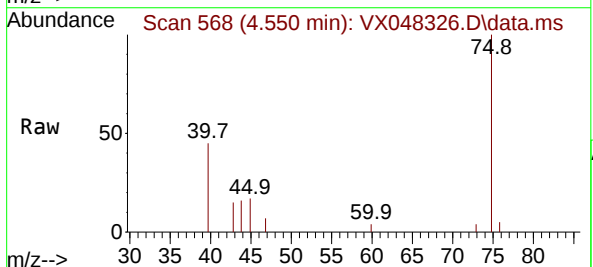


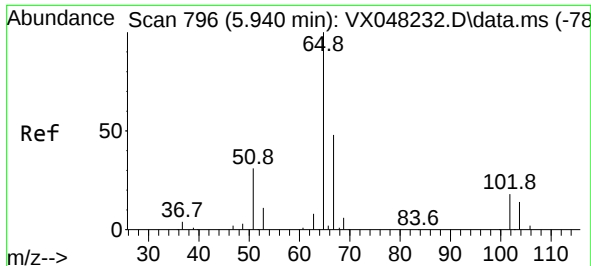
Tgt Ion:	84	Resp:	760
Ion	Ratio	Lower	Upper
84	100		
49	101.5	104.1	156.1#
51	35.2	31.3	46.9
86	51.5	51.3	76.9



#25
2-Butanone
Concen: 0.531 ug/l
RT: 4.550 min Scan# 568
Delta R.T. 0.012 min
Lab File: VX048326.D
Acq: 23 Oct 2025 15:26

Tgt Ion:	43	Resp:	394
Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.9	29.9#

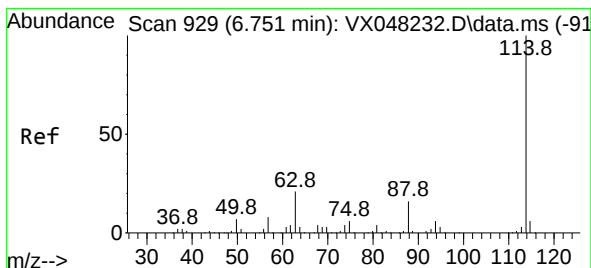
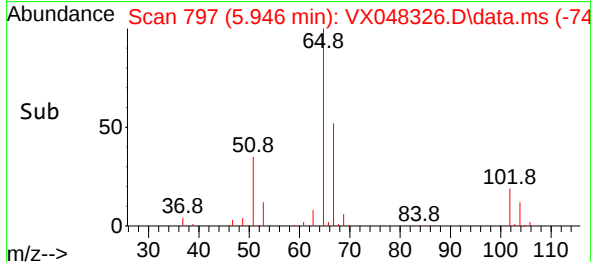
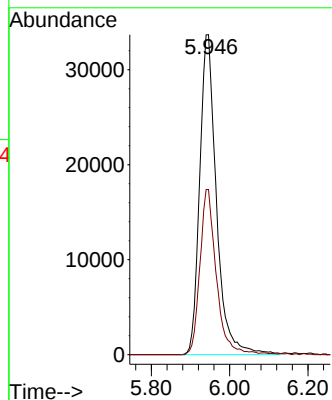
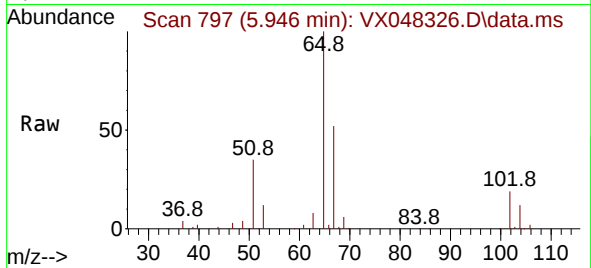




#33
 1,2-Dichloroethane-d4
 Concen: 58.667 ug/l
 RT: 5.946 min Scan# 796
 Delta R.T. 0.006 min
 Lab File: VX048326.D
 Acq: 23 Oct 2025 15:26

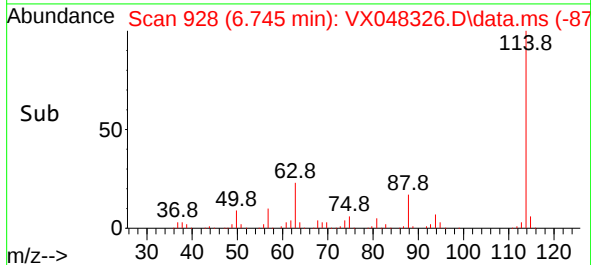
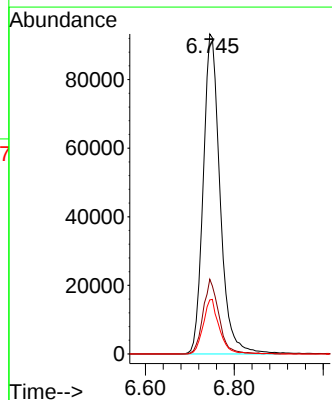
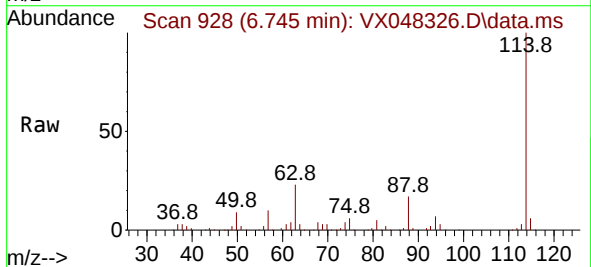
Instrument :
 MSVOA_X
 ClientSampleId :

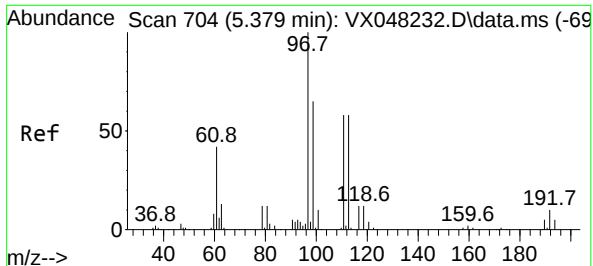
Tgt Ion: 65 Resp: 100325
 Ion Ratio Lower Upper
 65 100
 67 50.3 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.745 min Scan# 928
 Delta R.T. -0.000 min
 Lab File: VX048326.D
 Acq: 23 Oct 2025 15:26

Tgt Ion: 114 Resp: 246326
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 43.2
 88 16.9 0.0 33.6





#35

Dibromofluoromethane

Concen: 40.328 ug/l

RT: 5.373 min Scan# 704

Delta R.T. -0.000 min

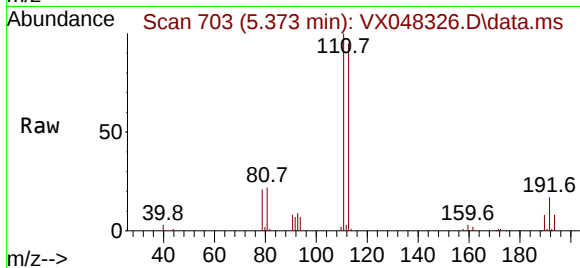
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Acq: 23 Oct 2025 15:26

Instrument :

MSVOA_X

ClientSampleId :



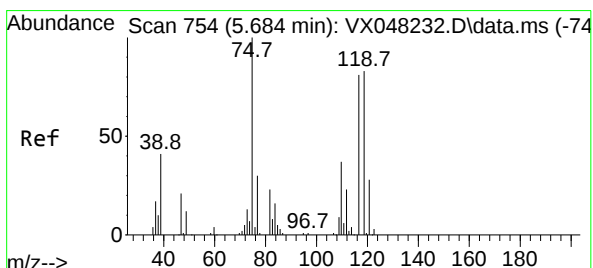
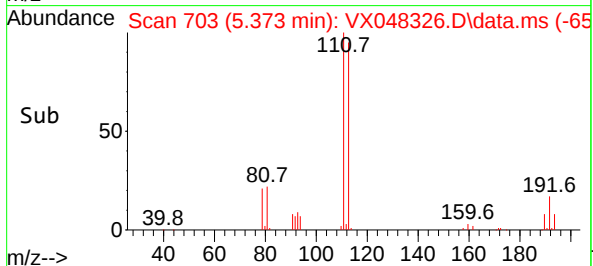
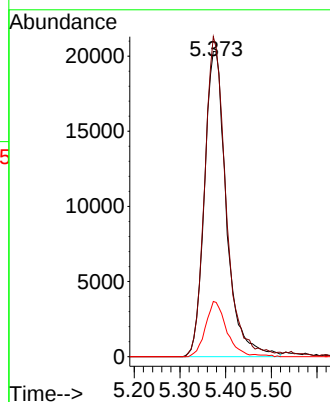
Tgt Ion:113 Resp: 67817

Ion Ratio Lower Upper

113 100

111 101.5 82.2 123.4

192 17.7 15.1 22.7



#36

1,1-Dichloropropene

Concen: 4.420 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.140 min

Lab File: VX048326.D

Acq: 23 Oct 2025 15:26

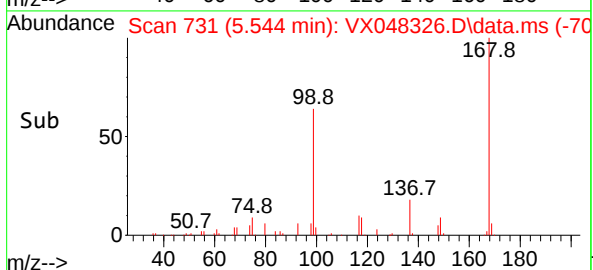
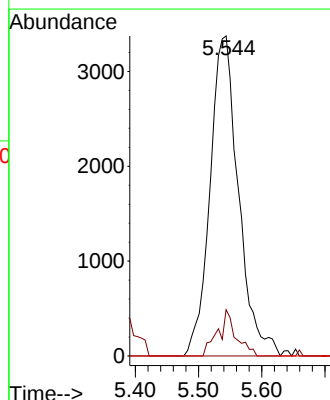
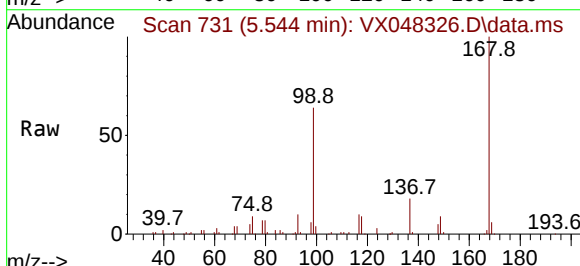
Tgt Ion: 75 Resp: 10565

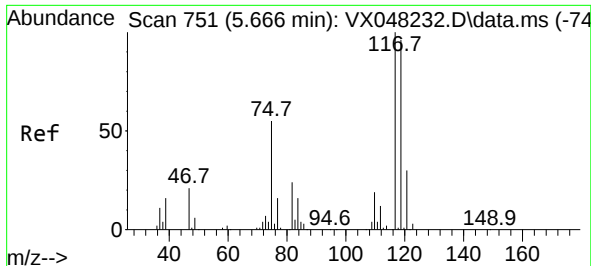
Ion Ratio Lower Upper

75 100

110 9.2 17.7 53.1#

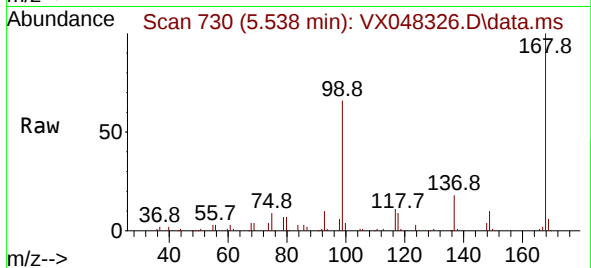
77 0.0 24.3 36.5#



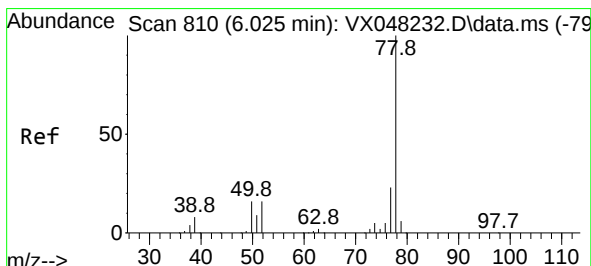
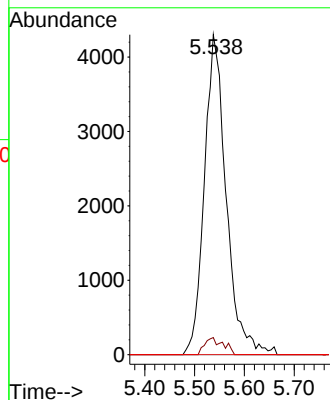
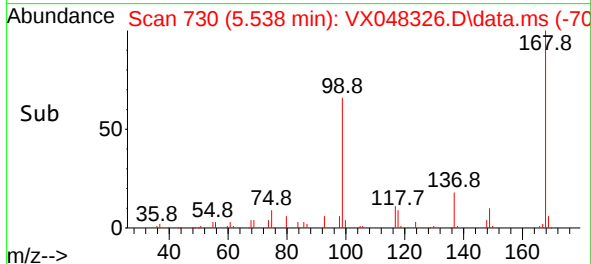


#38
Carbon Tetrachloride
Concen: 4.449 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX048326.D
Acq: 23 Oct 2025 15:26

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MSVOA_X
ClientSampleId :

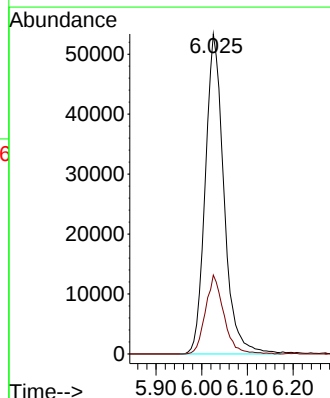
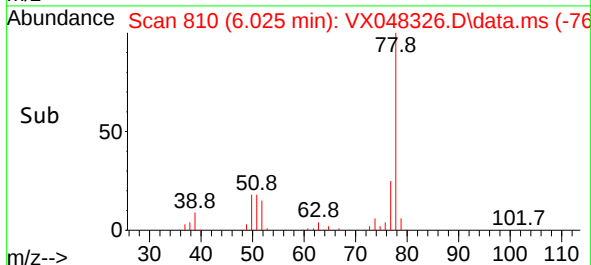
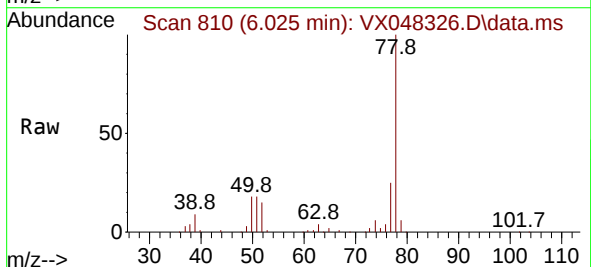


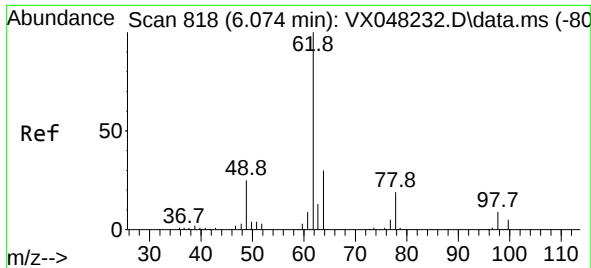
Tgt Ion:117 Resp: 13119
Ion Ratio Lower Upper
117 100
119 5.4 77.2 115.8#
121 0.0 24.8 37.2#



#40
Benzene
Concen: 21.770 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX048326.D
Acq: 23 Oct 2025 15:26

Tgt Ion: 78 Resp: 151074
Ion Ratio Lower Upper
78 100
77 24.6 19.3 28.9





#42

1,2-Dichloroethane

Concen: 0.609 ug/l

RT: 6.031 min Scan# 81

Delta R.T. -0.037 min

Lab File: VX048326.D

Acq: 23 Oct 2025 15:26

Instrument :

MSVOA_X

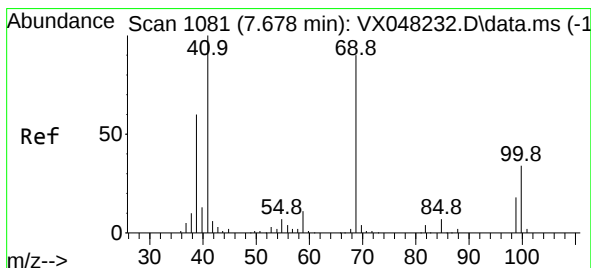
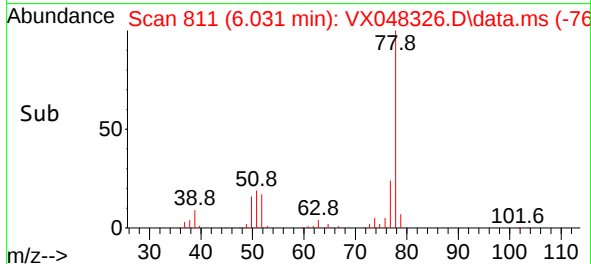
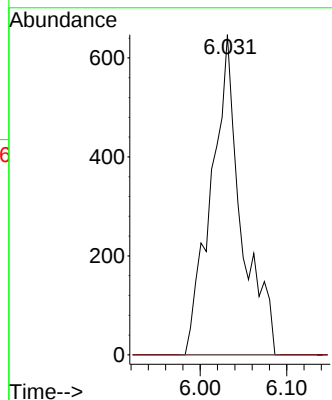
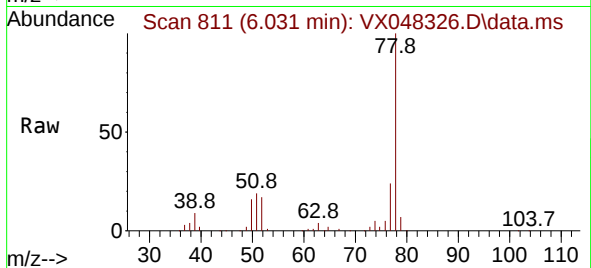
ClientSampleId :

Tgt Ion: 62 Resp: 1559

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.2



#48

Methyl methacrylate

Concen: 2.765 ug/l

RT: 7.781 min Scan# 1098

Delta R.T. 0.104 min

Lab File: VX048326.D

Acq: 23 Oct 2025 15:26

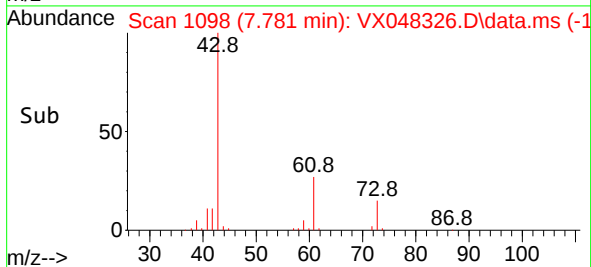
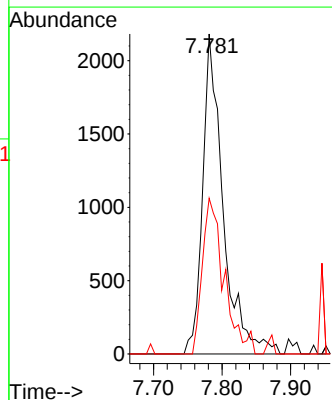
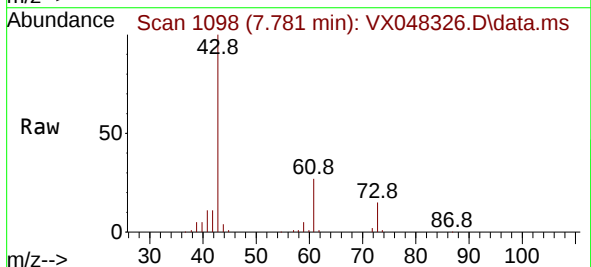
Tgt Ion: 41 Resp: 4541

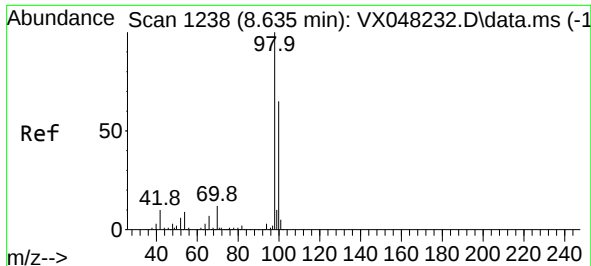
Ion Ratio Lower Upper

41 100

69 0.0 63.4 95.0#

39 51.5 47.1 70.7

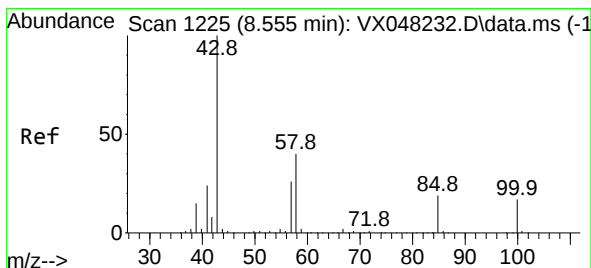
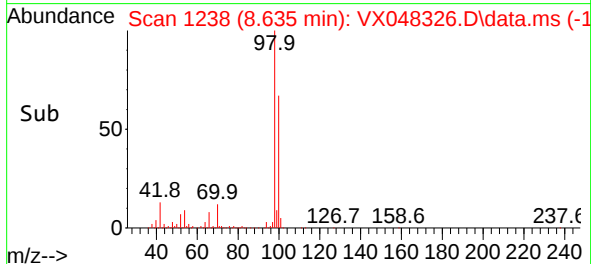
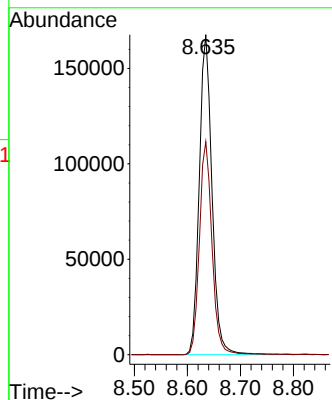
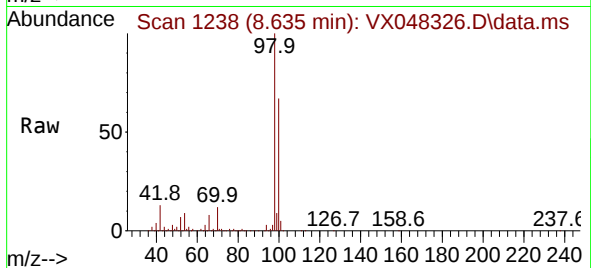




#50
Toluene-d8
Concen: 47.374 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048326.D
Acq: 23 Oct 2025 15:26

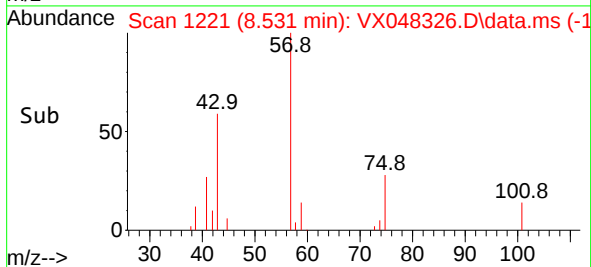
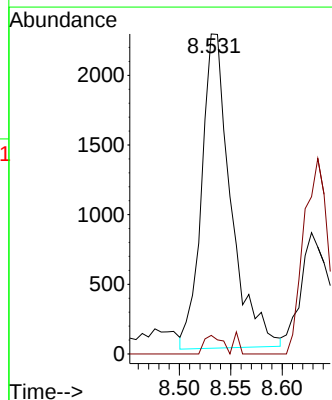
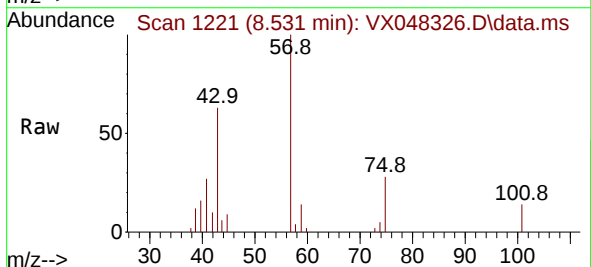
Instrument :
MSVOA_X
ClientSampleId :

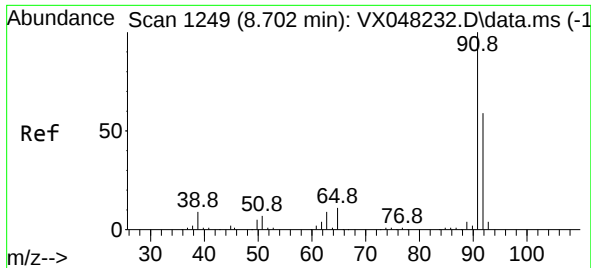
Tgt Ion: 98 Resp: 279237
Ion Ratio Lower Upper
98 100
100 65.9 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 2.388 ug/l
RT: 8.531 min Scan# 1221
Delta R.T. -0.024 min
Lab File: VX048326.D
Acq: 23 Oct 2025 15:26

Tgt Ion: 43 Resp: 4480
Ion Ratio Lower Upper
43 100
58 3.5 29.5 44.3#

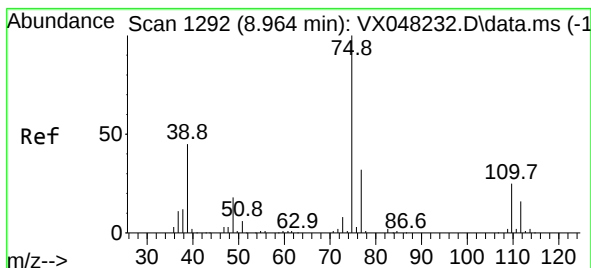
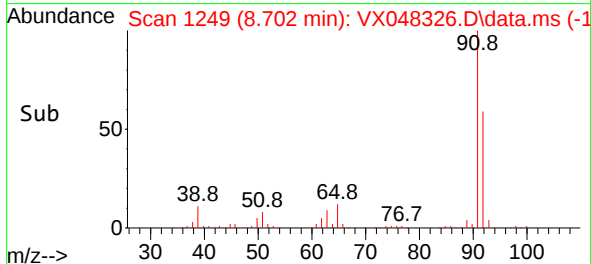
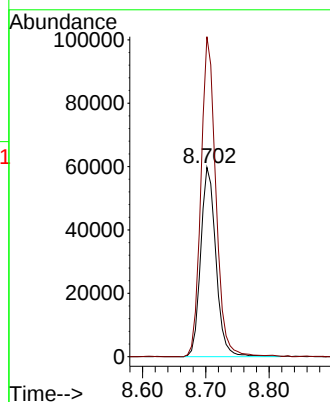
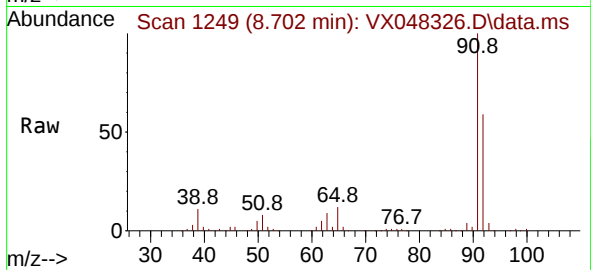




#52
Toluene
Concen: 22.724 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048326.D
Acq: 23 Oct 2025 15:26

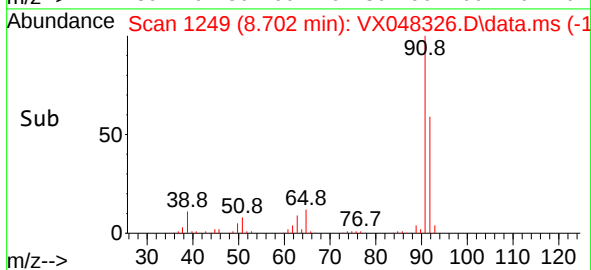
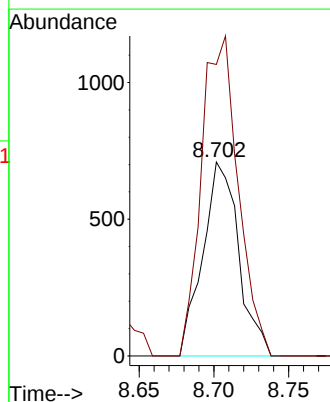
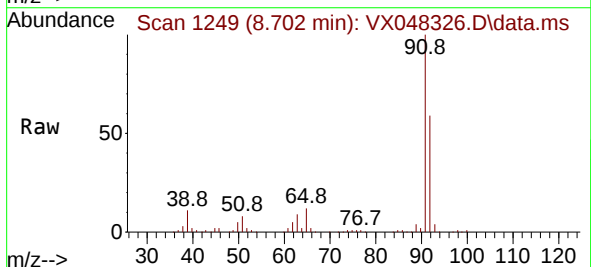
Instrument :
MSVOA_X
ClientSampleId :

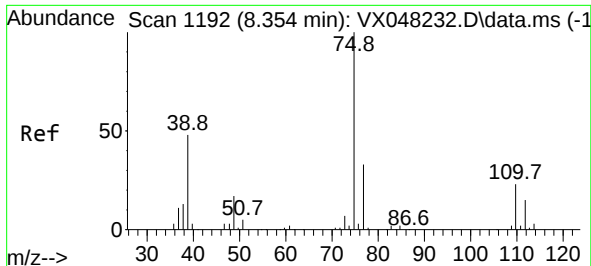
Tgt Ion: 92 Resp: 100178
Ion Ratio Lower Upper
92 100
91 165.8 136.1 204.1



#53
t-1,3-Dichloropropene
Concen: 0.442 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.262 min
Lab File: VX048326.D
Acq: 23 Oct 2025 15:26

Tgt Ion: 75 Resp: 1182
Ion Ratio Lower Upper
75 100
77 166.6 25.0 37.6#

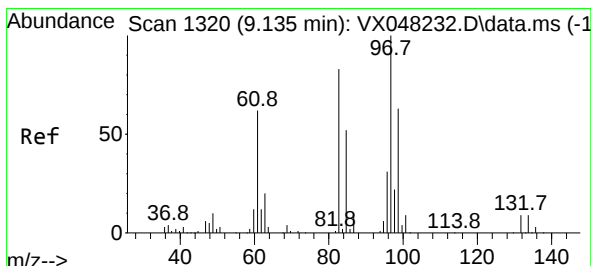
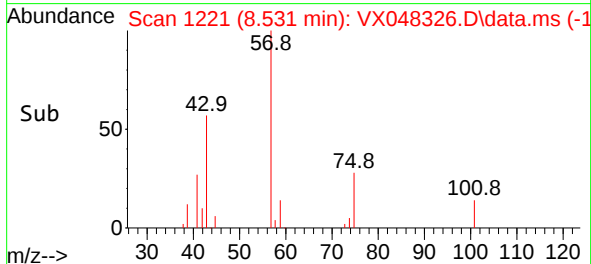
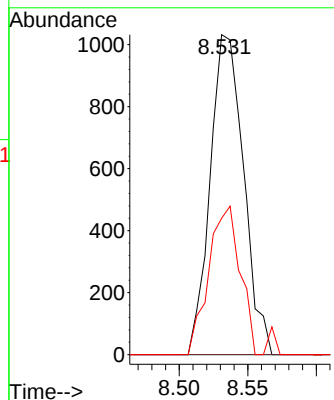
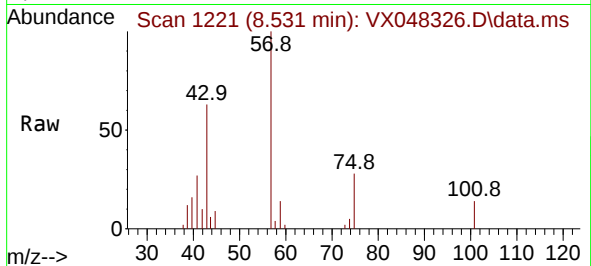




#54
 cis-1,3-Dichloropropene
 Concen: 0.607 ug/l
 RT: 8.531 min Scan# 1192
 Delta R.T. 0.183 min
 Lab File: VX048326.D
 Acq: 23 Oct 2025 15:26

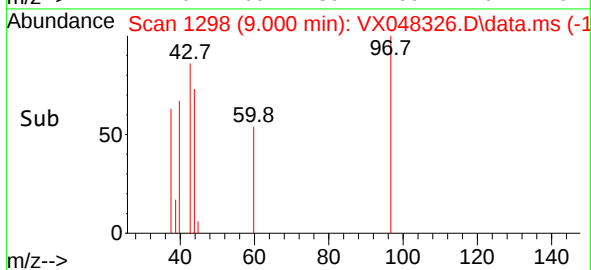
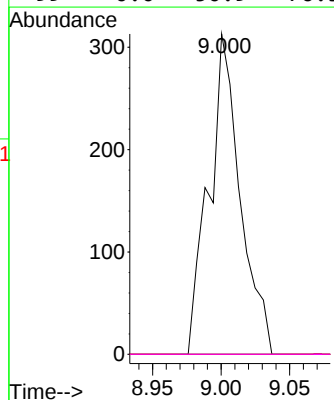
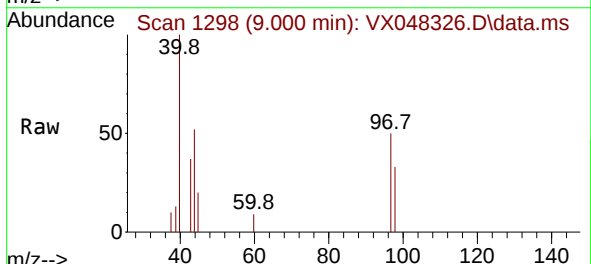
Instrument :
 MSVOA_X
 ClientSampleId :

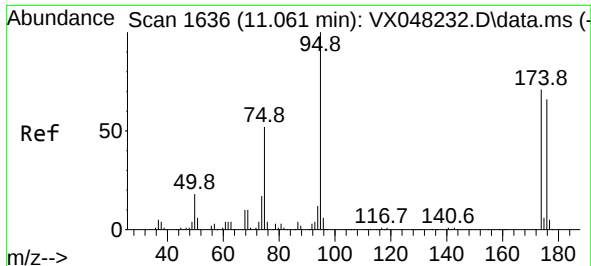
Tgt Ion: 75 Resp: 1751
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.9 37.3#
 39 98.6 42.6 64.0#



#55
 1,1,2-Trichloroethane
 Concen: 0.303 ug/l
 RT: 9.000 min Scan# 1298
 Delta R.T. -0.134 min
 Lab File: VX048326.D
 Acq: 23 Oct 2025 15:26

Tgt Ion: 97 Resp: 497
 Ion Ratio Lower Upper
 97 100
 83 0.0 70.6 105.8#
 85 0.0 45.0 67.6#
 99 0.0 50.9 76.3#

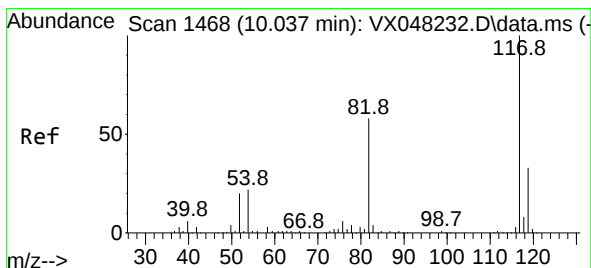
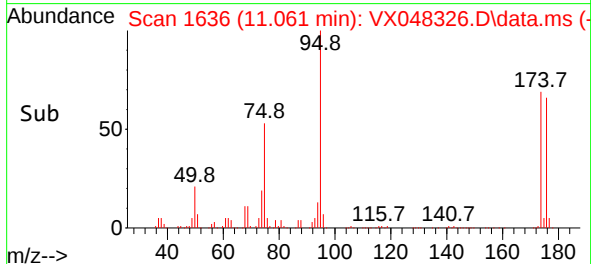
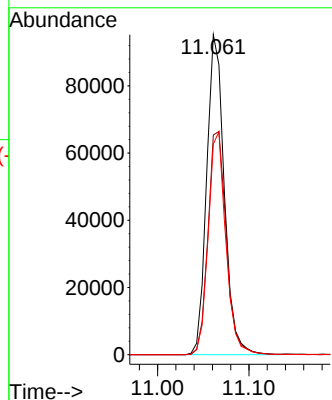
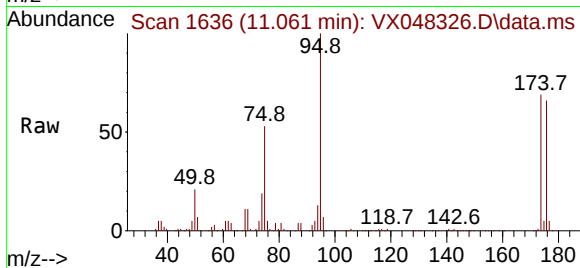




#62
4-Bromofluorobenzene
Concen: 56.688 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048326.D
Acq: 23 Oct 2025 15:26

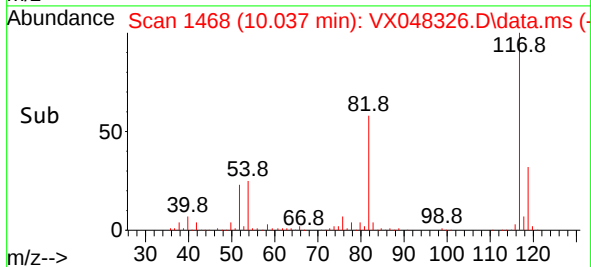
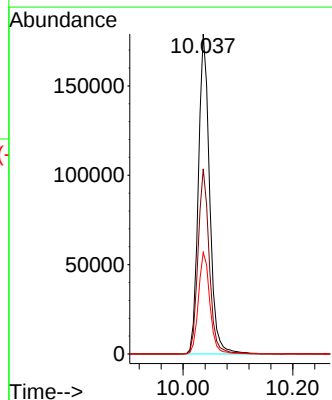
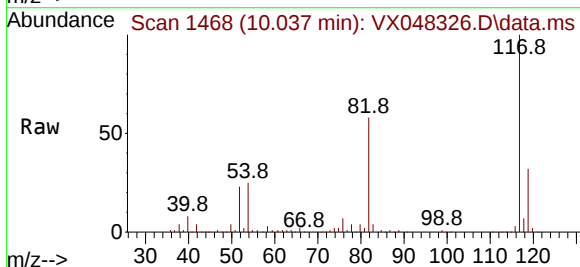
Instrument :
MSVOA_X
ClientSampleId :

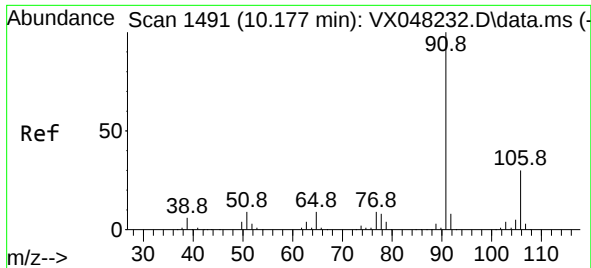
Tgt Ion: 95 Resp: 127116
Ion Ratio Lower Upper
95 100
174 72.8 0.0 147.8
176 69.7 0.0 142.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048326.D
Acq: 23 Oct 2025 15:26

Tgt Ion: 117 Resp: 256819
Ion Ratio Lower Upper
117 100
82 57.9 46.5 69.7
119 31.7 25.9 38.9

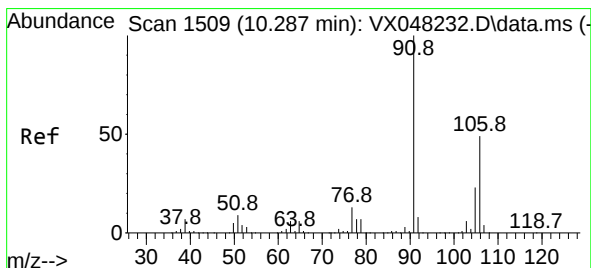
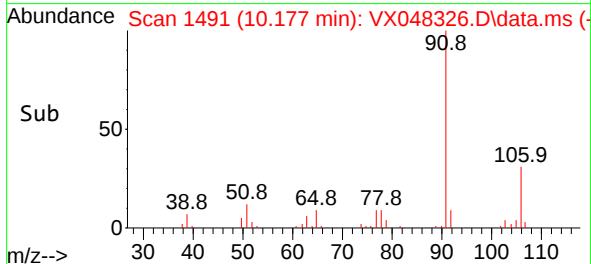
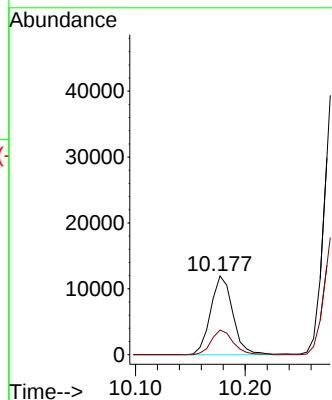
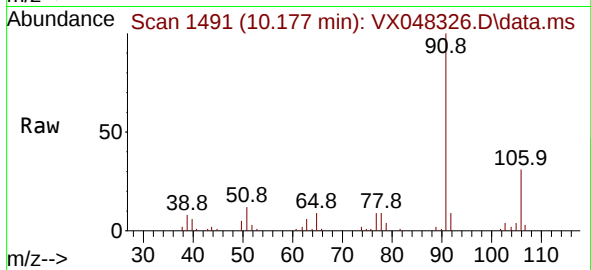




#67
Ethyl Benzene
Concen: 1.708 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX048326.D
Acq: 23 Oct 2025 15:26

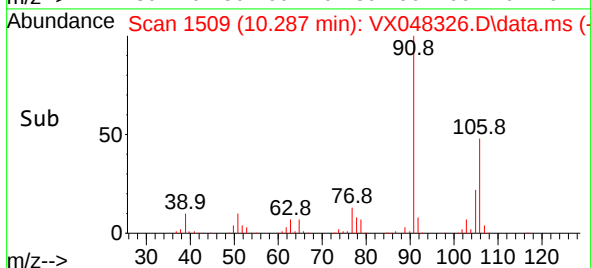
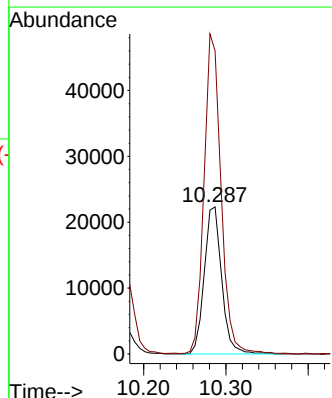
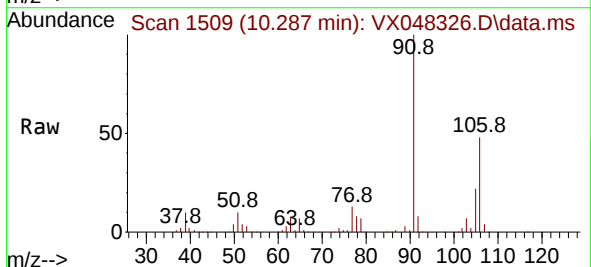
Instrument :
MSVOA_X
ClientSampleId :

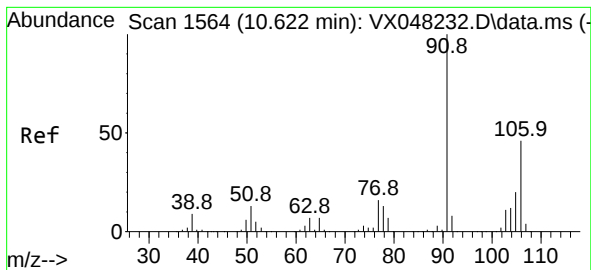
Tgt Ion: 91 Resp: 16799
Ion Ratio Lower Upper
91 100
106 34.4 23.8 35.6



#68
m/p-Xylenes
Concen: 8.986 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048326.D
Acq: 23 Oct 2025 15:26

Tgt Ion:106 Resp: 32839
Ion Ratio Lower Upper
106 100
91 212.6 167.9 251.9





#69

o-Xylene

Concen: 7.094 ug/l

RT: 10.622 min Scan# 1564

Delta R.T. -0.000 min

Lab File: VX048326.D

Acq: 23 Oct 2025 15:26

Instrument :

MSVOA_X

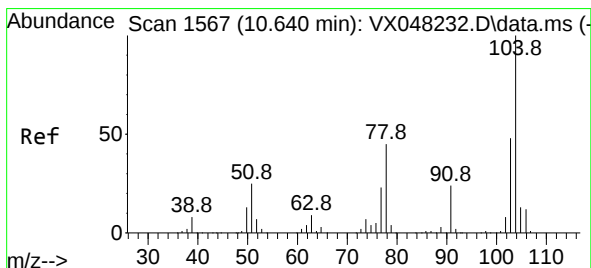
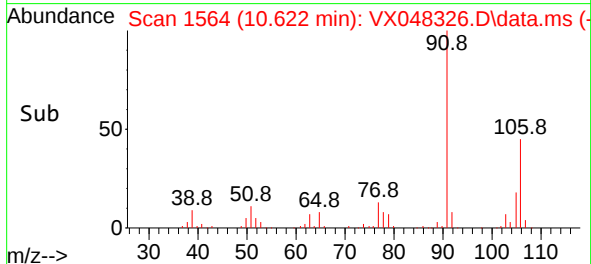
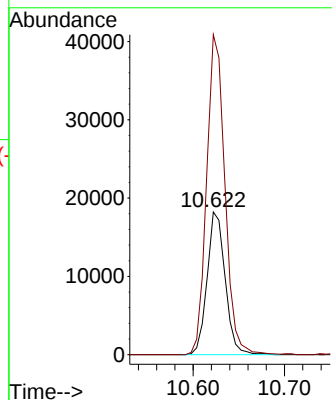
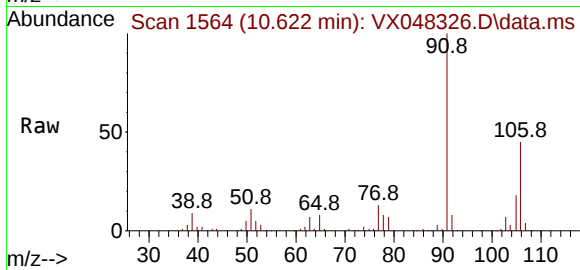
ClientSampleId :

Tgt Ion:106 Resp: 25031

Ion Ratio Lower Upper

106 100

91 226.8 111.3 333.9



#70

Styrene

Concen: 0.765 ug/l

RT: 10.634 min Scan# 1566

Delta R.T. -0.006 min

Lab File: VX048326.D

Acq: 23 Oct 2025 15:26

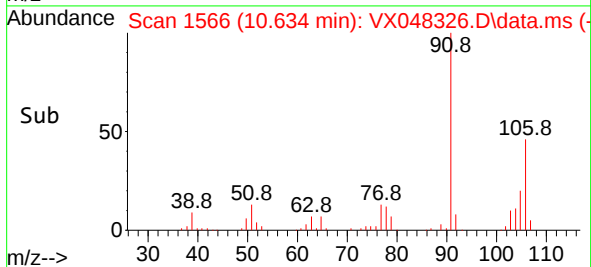
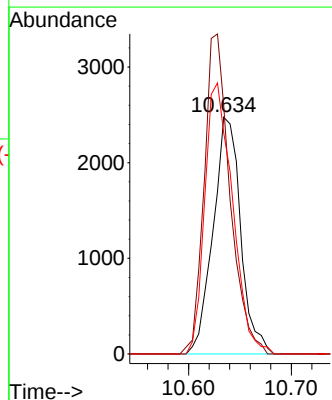
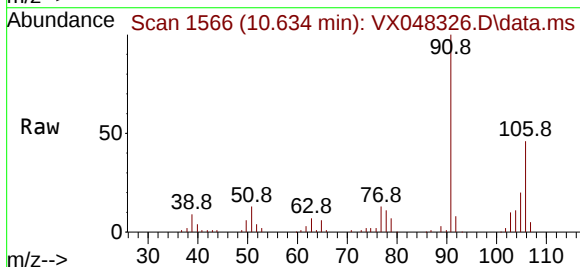
Tgt Ion:104 Resp: 4598

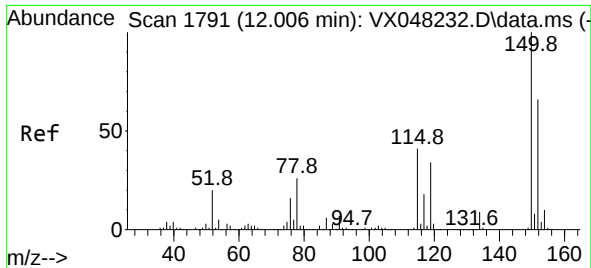
Ion Ratio Lower Upper

104 100

78 126.9 42.2 63.4#

103 115.5 43.0 64.4#

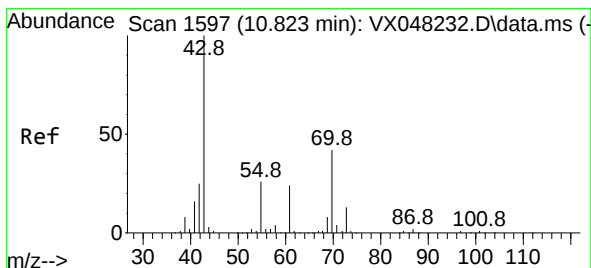
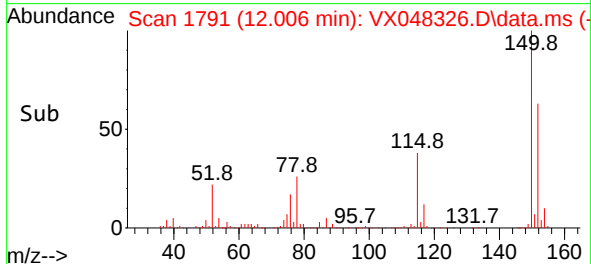
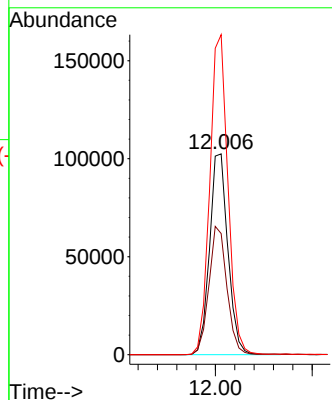
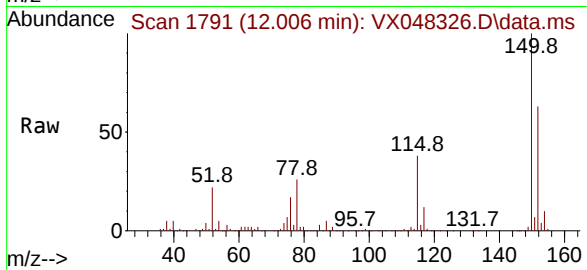




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: VX048326.D
 Acq: 23 Oct 2025 15:26

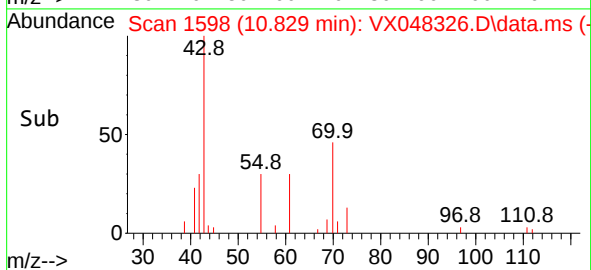
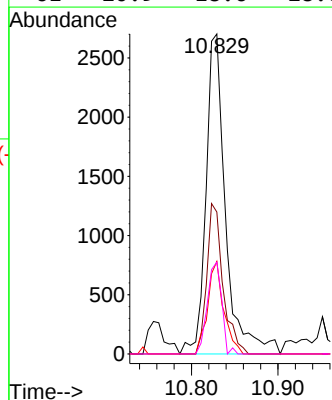
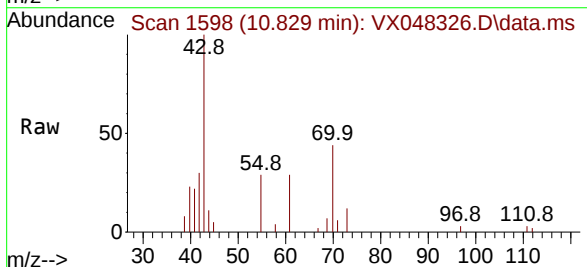
Instrument :
 MSVOA_X
 ClientSampleId :

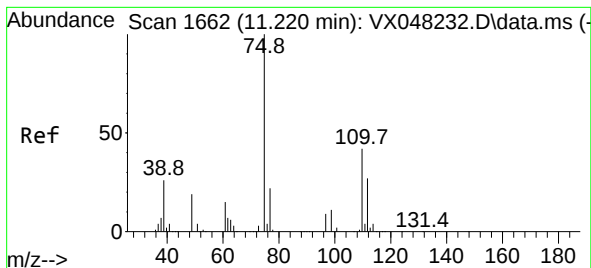
Tgt Ion:152 Resp: 135057
 Ion Ratio Lower Upper
 152 100
 115 62.9 43.1 129.4
 150 157.2 0.0 353.0



#74
 N-ethyl acetate
 Concen: 1.216 ug/l
 RT: 10.829 min Scan# 1598
 Delta R.T. 0.006 min
 Lab File: VX048326.D
 Acq: 23 Oct 2025 15:26

Tgt Ion: 43 Resp: 4256
 Ion Ratio Lower Upper
 43 100
 70 38.7 32.2 48.2
 55 23.8 19.1 28.7
 61 20.9 18.6 28.0





#76

1,2,3-Trichloropropane

Concen: 31.089 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.159 min

Lab File: VX048326.D

Acq: 23 Oct 2025 15:26

Instrument :

MSVOA_X

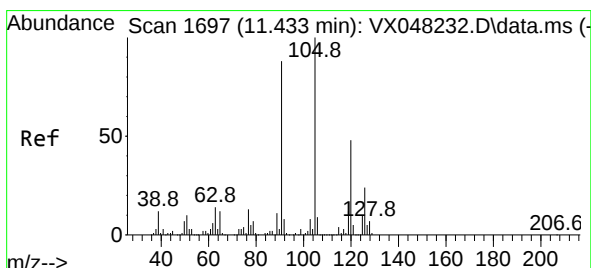
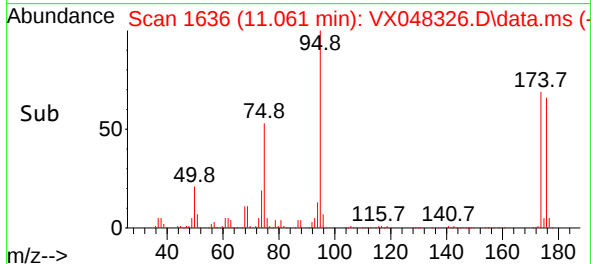
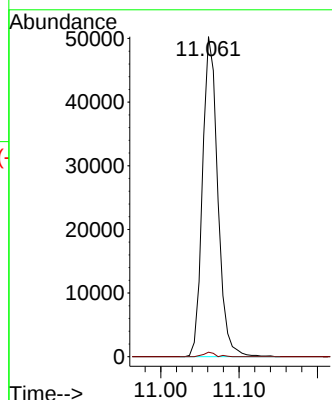
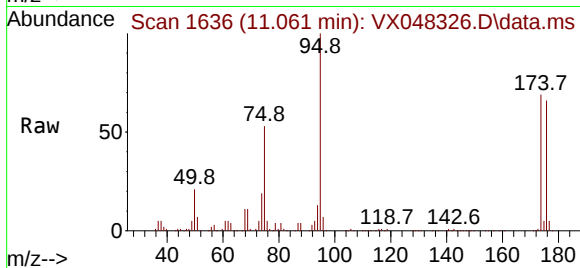
ClientSampleId :

Tgt Ion: 75 Resp: 68091

Ion Ratio Lower Upper

75 100

77 1.1 22.4 67.2#



#80

1,3,5-Trimethylbenzene

Concen: 0.629 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX048326.D

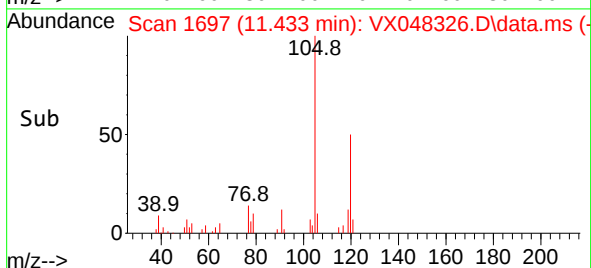
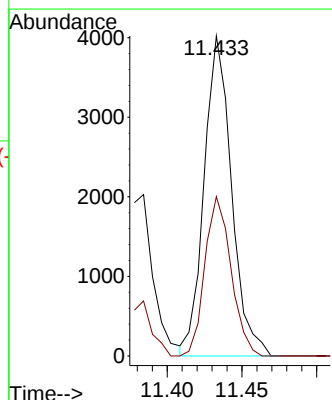
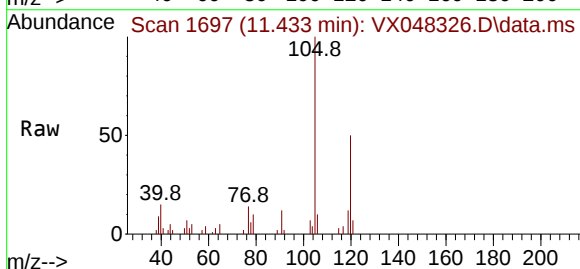
Acq: 23 Oct 2025 15:26

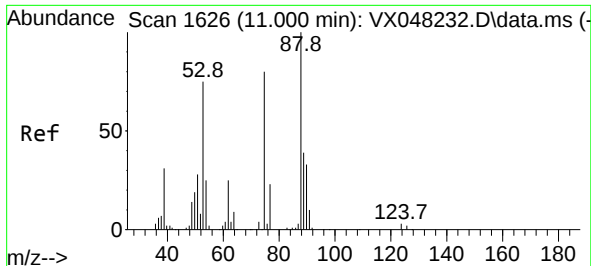
Tgt Ion: 105 Resp: 5131

Ion Ratio Lower Upper

105 100

120 47.5 24.0 72.0

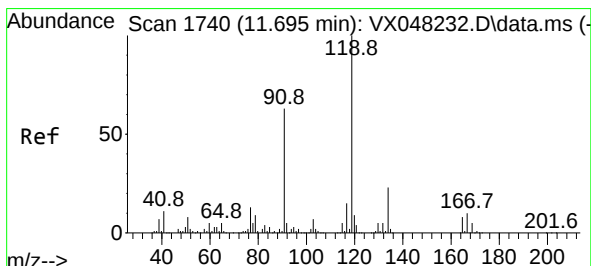
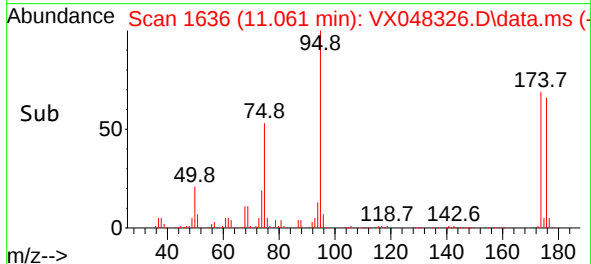
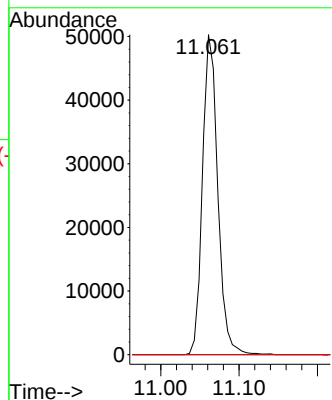
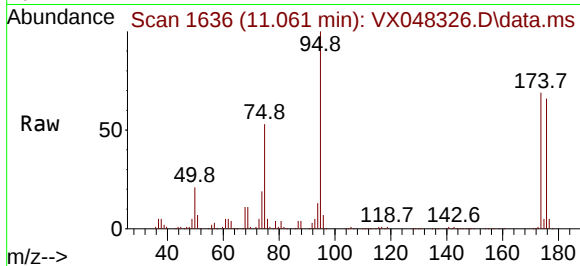




#81
trans-1,4-Dichloro-2-butene
Concen: 75.638 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX048326.D
Acq: 23 Oct 2025 15:26

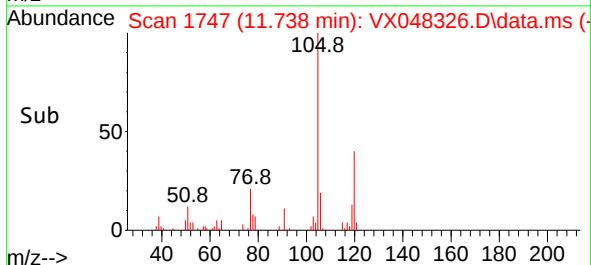
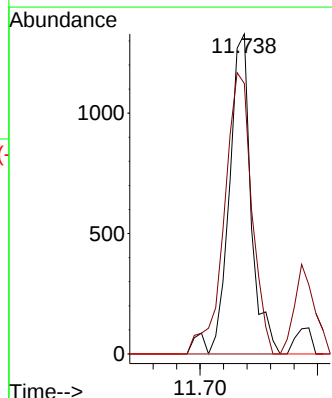
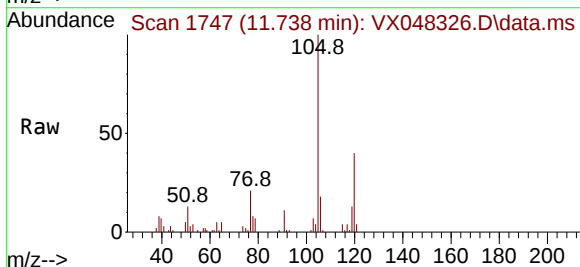
Instrument :
MSVOA_X
ClientSampleId :

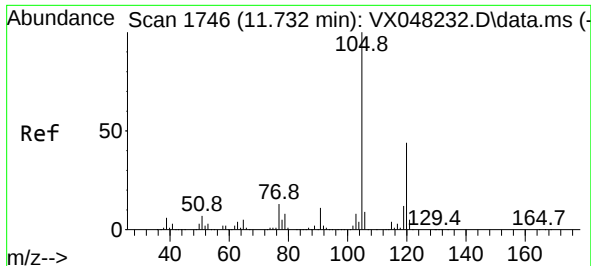
Tgt Ion: 75 Resp: 68091
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#



#83
tert-Butylbenzene
Concen: 0.208 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.043 min
Lab File: VX048326.D
Acq: 23 Oct 2025 15:26

Tgt Ion: 119 Resp: 1742
Ion Ratio Lower Upper
119 100
91 109.4 30.3 91.0#
134 0.0 11.4 34.2#

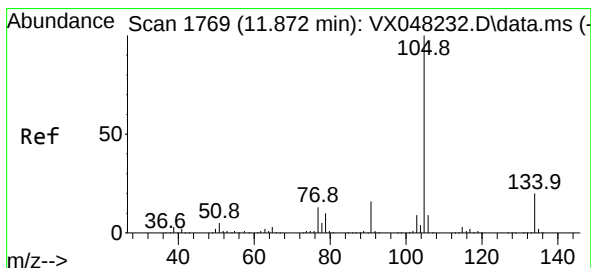
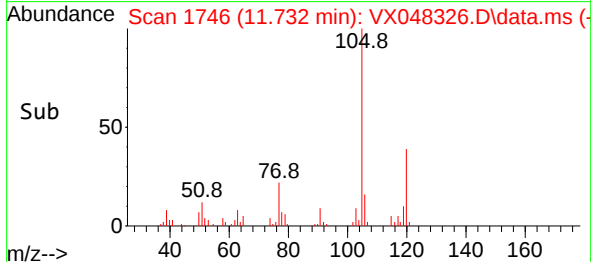
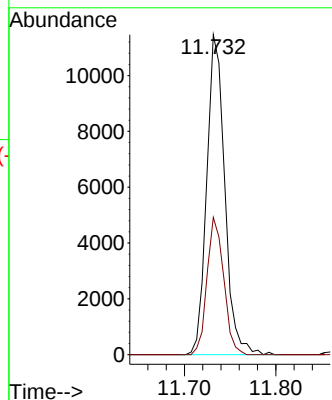
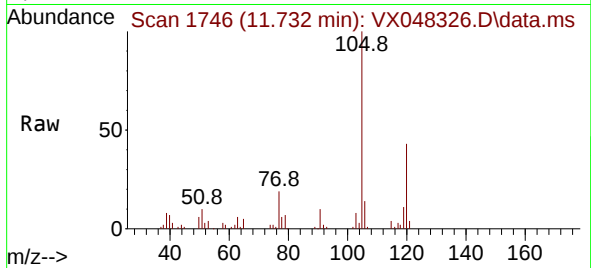




#84
 1,2,4-Trimethylbenzene
 Concen: 1.923 ug/l
 RT: 11.732 min Scan# 1746
 Delta R.T. -0.000 min
 Lab File: VX048326.D
 Acq: 23 Oct 2025 15:26

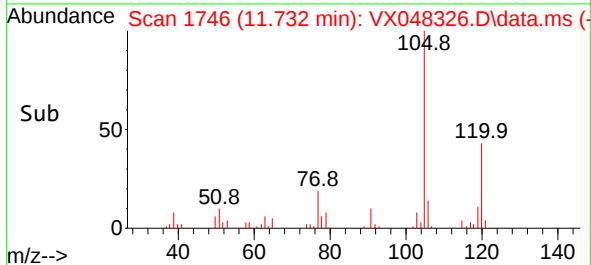
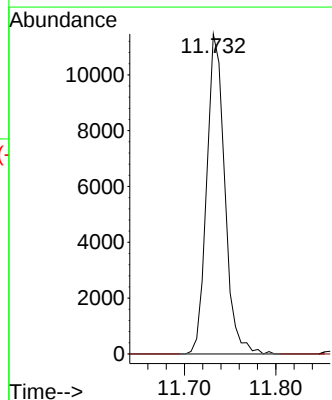
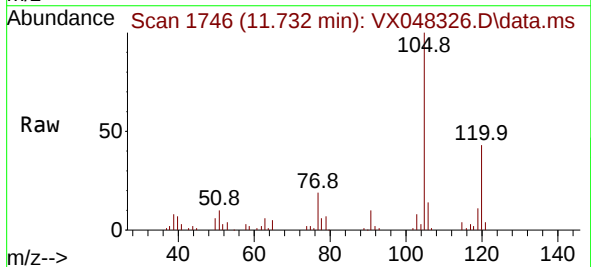
Instrument :
 MSVOA_X
 ClientSampleId :

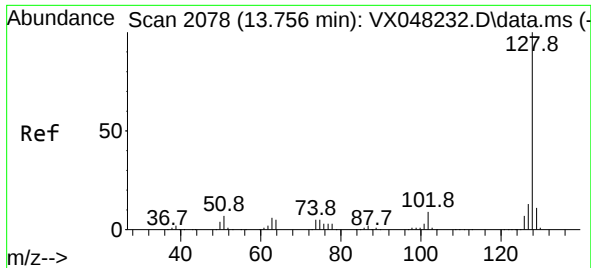
Tgt Ion:105 Resp: 15664
 Ion Ratio Lower Upper
 105 100
 120 39.7 22.1 66.5



#85
 sec-Butylbenzene
 Concen: 1.552 ug/l
 RT: 11.732 min Scan# 1746
 Delta R.T. -0.140 min
 Lab File: VX048326.D
 Acq: 23 Oct 2025 15:26

Tgt Ion:105 Resp: 15664
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.1 30.1#





#95

Naphthalene

Concen: 12.769 ug/l

RT: 13.756 min Scan# 20

Delta R.T. -0.000 min

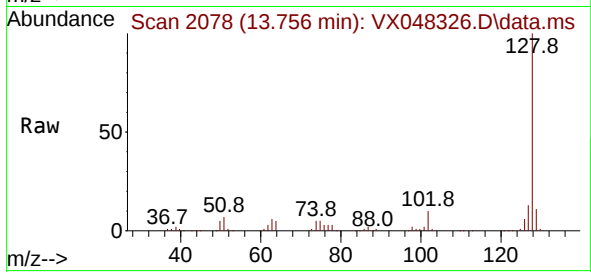
Lab File: VX048326.D

Acq: 23 Oct 2025 15:26

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:128 Resp: 100160

Ion	Ratio	Lower	Upper
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128	100		
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127	13.0	10.2	15.4
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129	11.1	8.6	12.8
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