

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
 Data File : VX048274.D
 Acq On : 21 Oct 2025 16:46
 Operator : JC/MD
 Sample : Q3400-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FRAC-TANK-0760450

Quant Time: Oct 24 04:28:49 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)

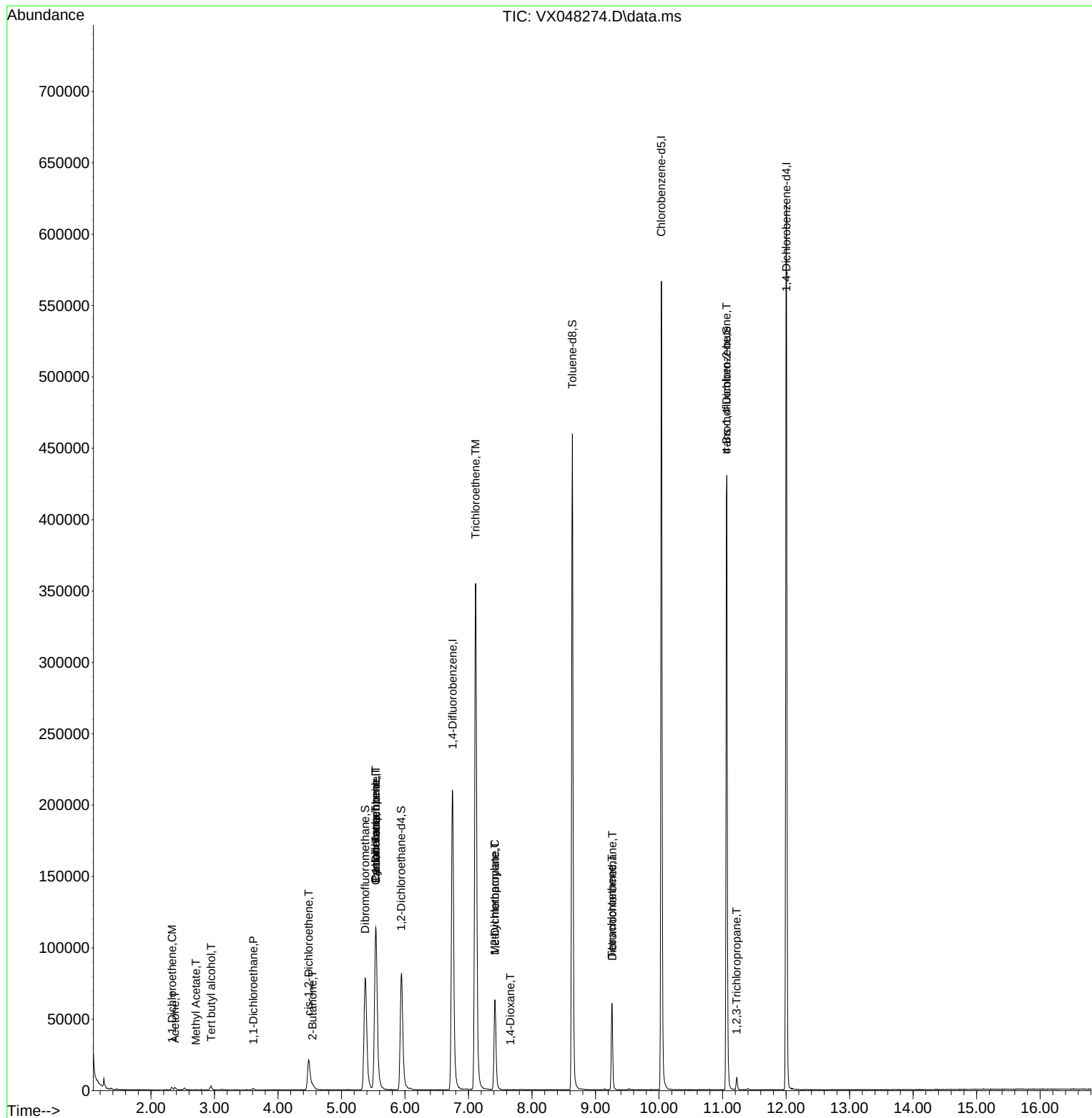
Internal Standards						
1) Pentafluorobenzene	5.538	168	117685	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	236203	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	265928	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	136752	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	91897	55.694	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 111.380%			
35) Dibromofluoromethane	5.373	113	76415	47.388	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.780%			
50) Toluene-d8	8.635	98	281369	49.781	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.560%			
62) 4-Bromofluorobenzene	11.061	95	124629	57.961	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 115.920%			
Target Compounds						Qvalue
11) Tert butyl alcohol	2.947	59	1644	10.035	ug/l #	72
12) 1,1-Dichloroethene	2.331	96	796	0.644	ug/l #	78
16) Acetone	2.380	43	2910	5.141	ug/l #	84
18) Methyl Acetate	2.709	43	450	0.381	ug/l #	54
24) 1,1-Dichloroethane	3.611	63	1612	0.652	ug/l #	82
25) 2-Butanone	4.544	43	184	0.257	ug/l #	50
27) cis-1,2-Dichloroethene	4.483	96	15375	9.707	ug/l	88
31) Cyclohexane	5.538	56	2073	1.012	ug/l #	1
36) 1,1-Dichloropropene	5.538	75	9135	3.986	ug/l #	49
38) Carbon Tetrachloride	5.544	117	12268	4.339	ug/l #	14
44) Trichloroethene	7.111	130	152383	86.725	ug/l	96
45) 1,2-Dichloropropane	7.415	63	27134	17.151	ug/l	99
48) Methyl methacrylate	7.415	41	13956	8.863	ug/l #	43
49) 1,4-Dioxane	7.659	88	20	0.961	ug/l #	18
60) Dibromochloromethane	9.263	129	12103	5.728	ug/l #	11
64) Tetrachloroethene	9.256	164	12958	6.527	ug/l	89
76) 1,2,3-Trichloropropane	11.220	75	3382	1.525	ug/l	77
81) trans-1,4-Dichloro-2-b...	11.061	75	63104	69.229	ug/l #	10

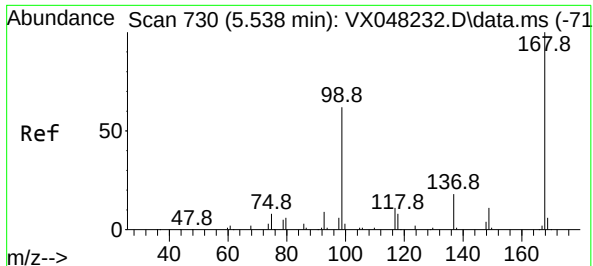
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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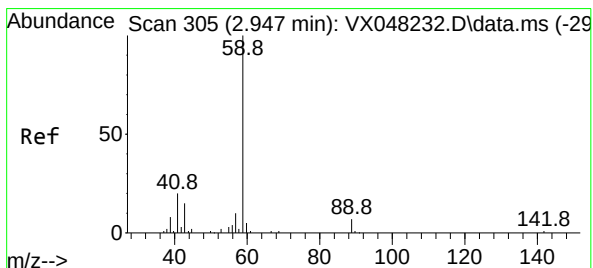
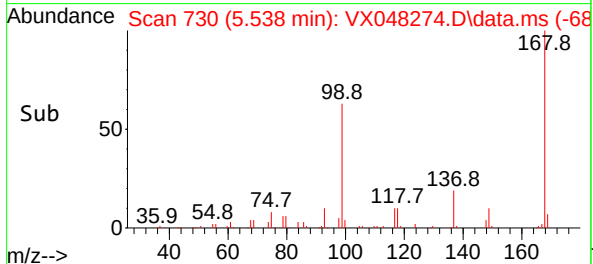
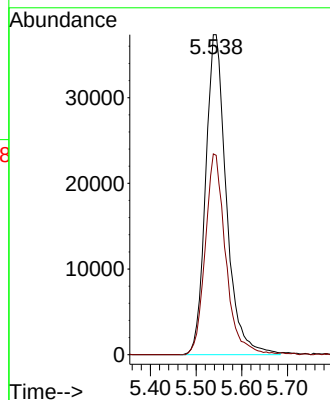
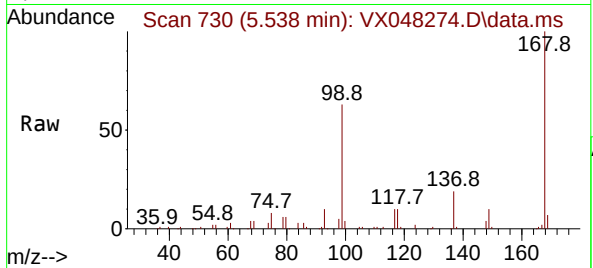




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

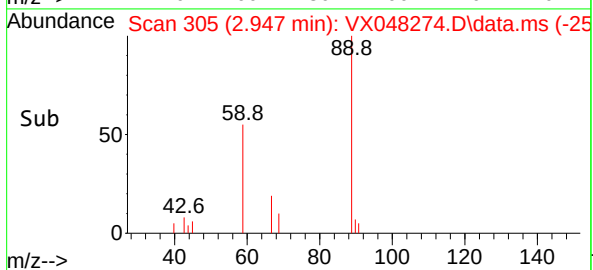
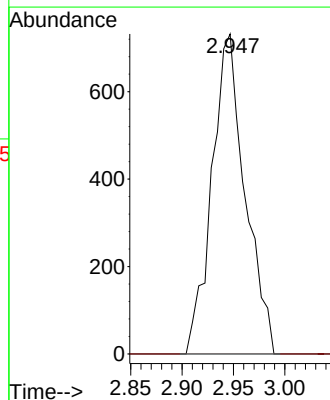
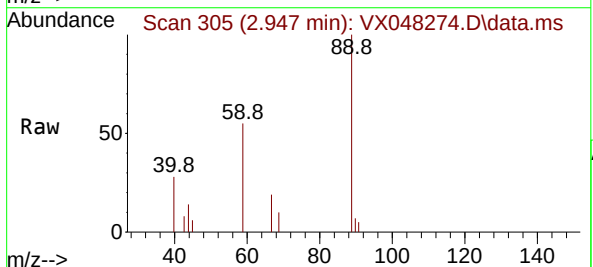
Instrument :
MSVOA_X
ClientSampleId :
FRAC-TANK-0760450

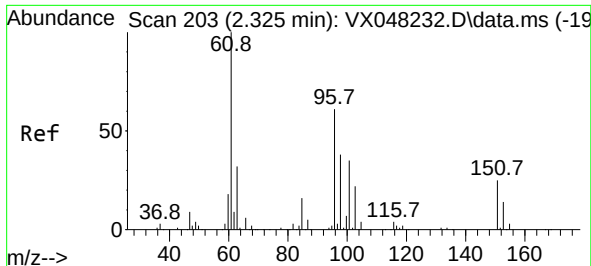
Tgt Ion:168 Resp: 117685
Ion Ratio Lower Upper
168 100
99 62.7 46.4 69.6



#11
Tert butyl alcohol
Concen: 10.035 ug/l
RT: 2.947 min Scan# 305
Delta R.T. 0.006 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

Tgt Ion: 59 Resp: 1644
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#12

1,1-Dichloroethene

Concen: 0.644 ug/l

RT: 2.331 min Scan# 20

Delta R.T. 0.006 min

Lab File: VX048274.D

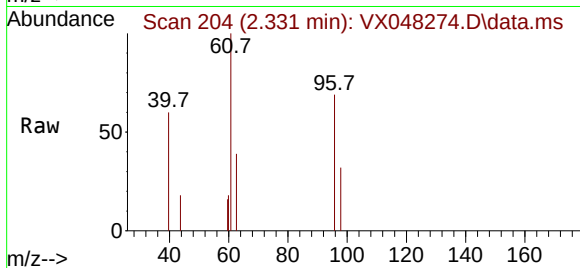
Acq: 21 Oct 2025 16:46

Instrument :

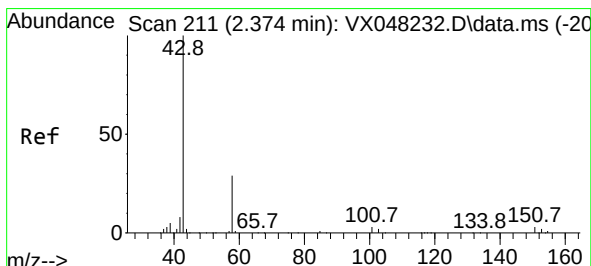
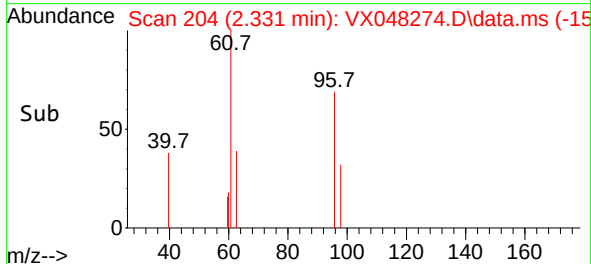
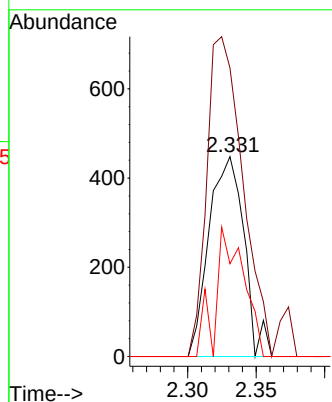
MSVOA_X

ClientSampleId :

FRAC-TANK-0760450



Tgt Ion:	96	Resp:	796
Ion	Ratio	Lower	Upper
96	100		
61	144.4	139.0	208.6
98	46.4	52.4	78.6#



#16

Acetone

Concen: 5.141 ug/l

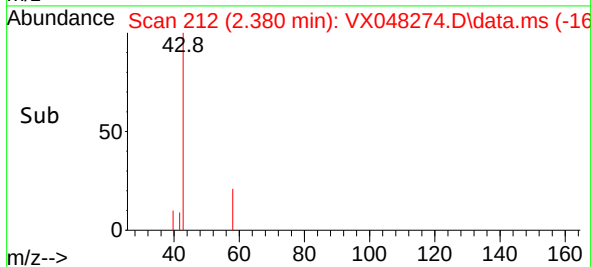
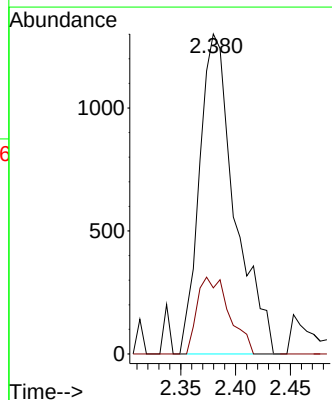
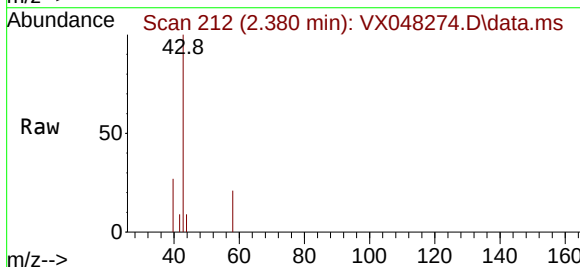
RT: 2.380 min Scan# 212

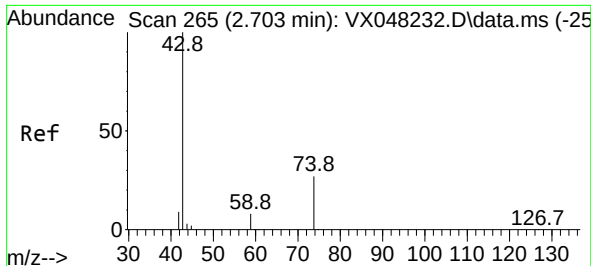
Delta R.T. 0.006 min

Lab File: VX048274.D

Acq: 21 Oct 2025 16:46

Tgt Ion:	43	Resp:	2910
Ion	Ratio	Lower	Upper
43	100		
58	20.7	23.4	35.2#





#18

Methyl Acetate

Concen: 0.381 ug/l

RT: 2.709 min Scan# 2

Delta R.T. 0.012 min

Lab File: VX048274.D

Acq: 21 Oct 2025 16:46

Instrument :

MSVOA_X

ClientSampleId :

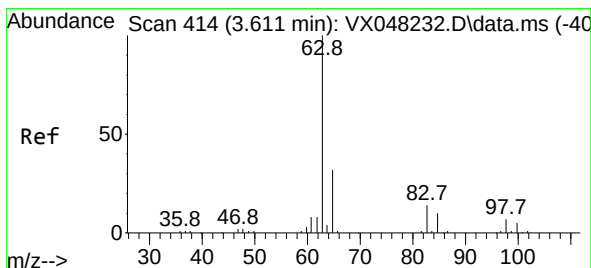
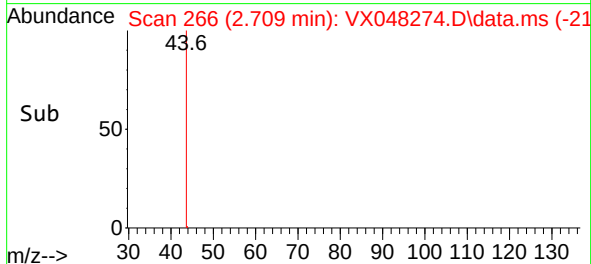
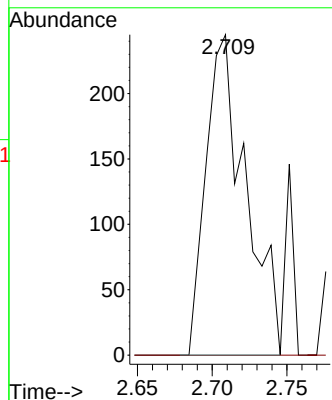
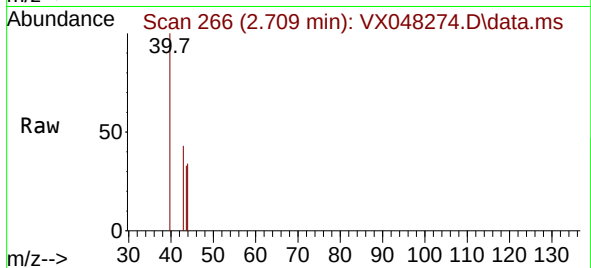
FRAC-TANK-0760450

Tgt Ion: 43 Resp: 450

Ion Ratio Lower Upper

43 100

74 0.0 17.5 26.3#



#24

1,1-Dichloroethane

Concen: 0.652 ug/l

RT: 3.611 min Scan# 414

Delta R.T. 0.006 min

Lab File: VX048274.D

Acq: 21 Oct 2025 16:46

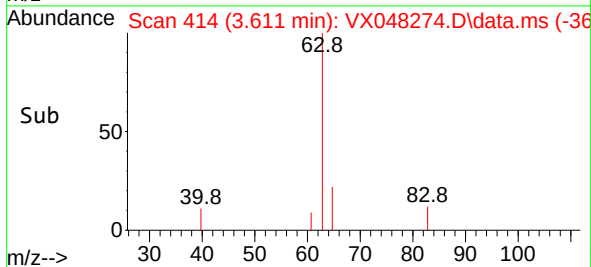
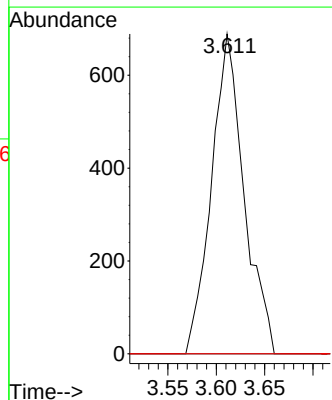
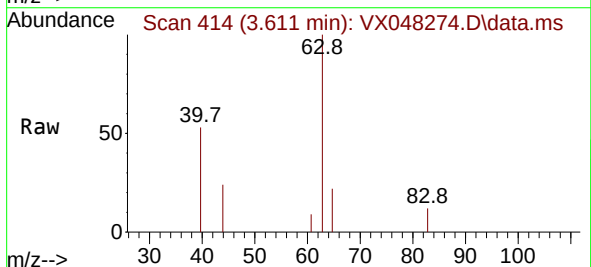
Tgt Ion: 63 Resp: 1612

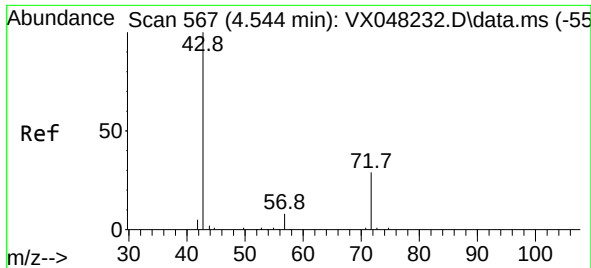
Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.6#

100 0.0 2.1 6.3#

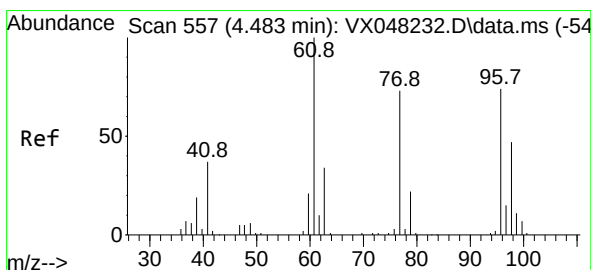
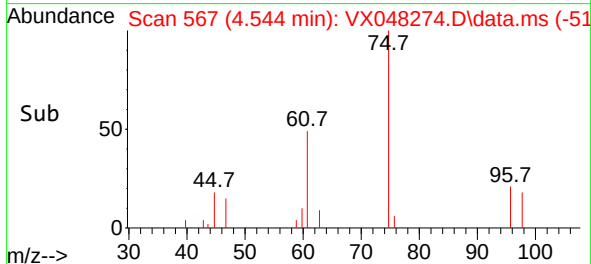
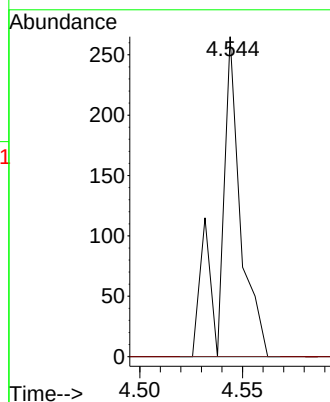
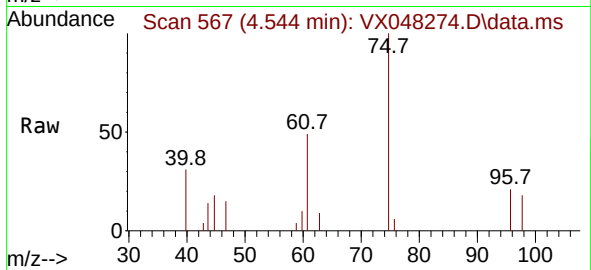




#25
2-Butanone
Concen: 0.257 ug/l
RT: 4.544 min Scan# 567
Delta R.T. 0.006 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

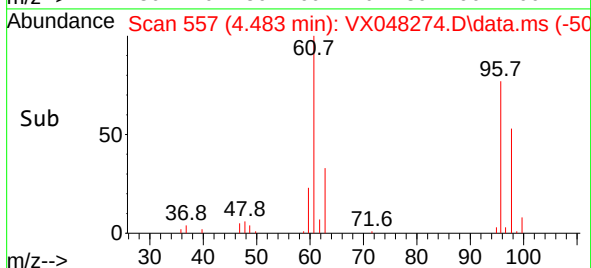
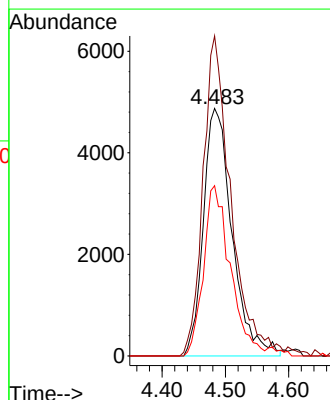
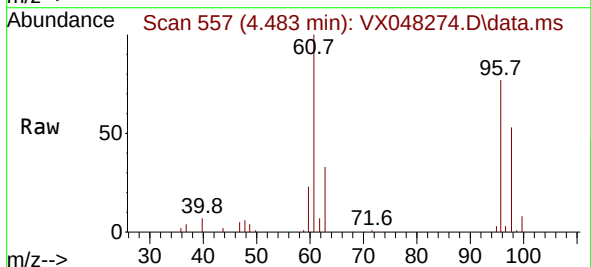
Instrument :
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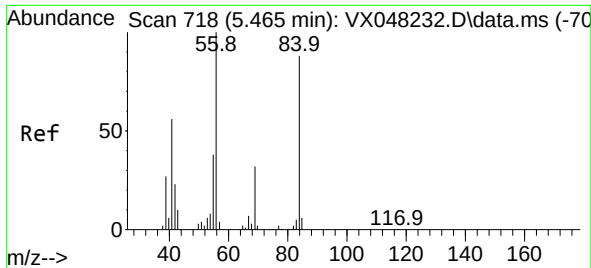
Tgt Ion: 43 Resp: 184
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#27
cis-1,2-Dichloroethene
Concen: 9.707 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

Tgt Ion: 96 Resp: 15375
Ion Ratio Lower Upper
96 100
61 124.8 0.0 294.2
98 64.2 0.0 128.4

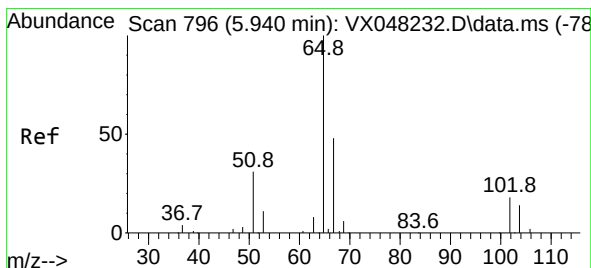
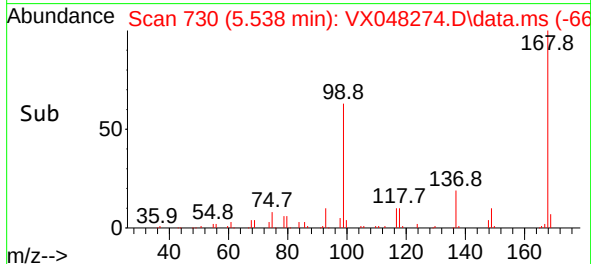
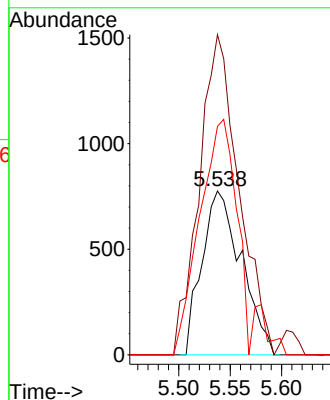
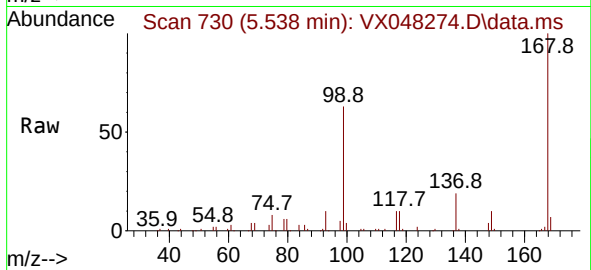




#31
Cyclohexane
Concen: 1.012 ug/l
RT: 5.538 min Scan# 718
Delta R.T. 0.079 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

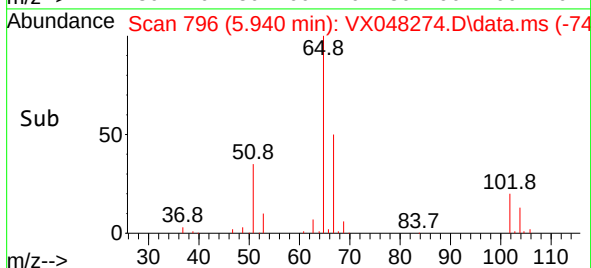
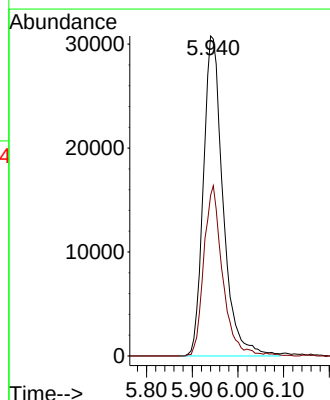
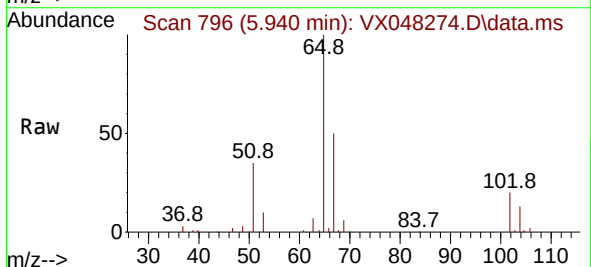
Instrument :
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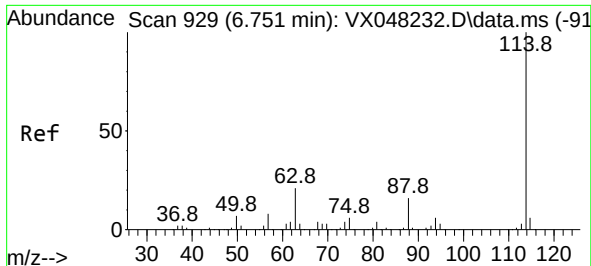
Tgt Ion: 56 Resp: 2073
Ion Ratio Lower Upper
56 100
69 188.3 23.0 34.6#
84 129.4 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 55.694 ug/l
RT: 5.940 min Scan# 796
Delta R.T. 0.000 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

Tgt Ion: 65 Resp: 91897
Ion Ratio Lower Upper
65 100
67 50.5 0.0 105.0

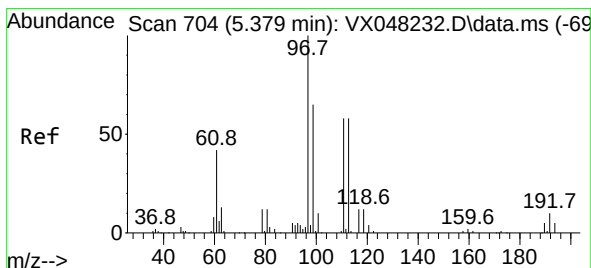
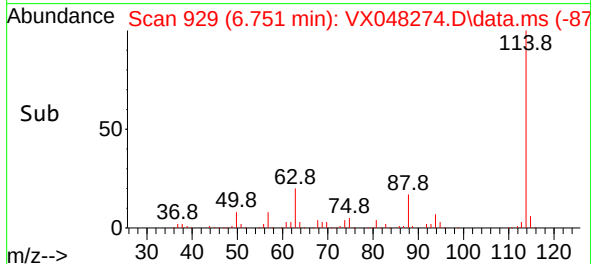
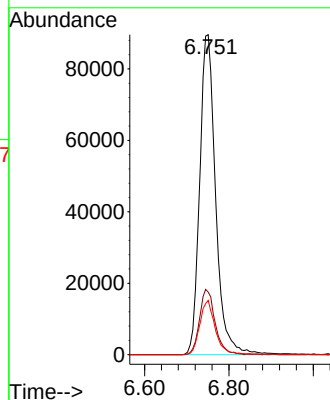
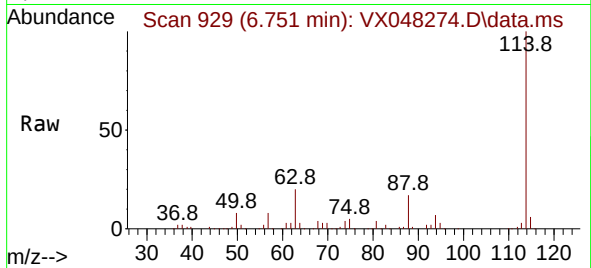




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

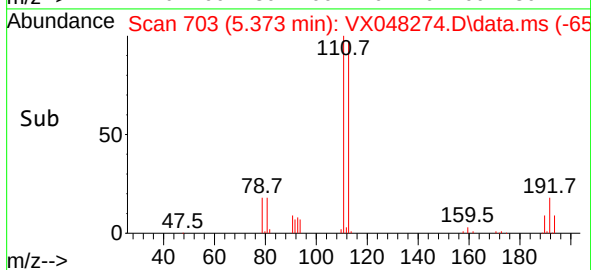
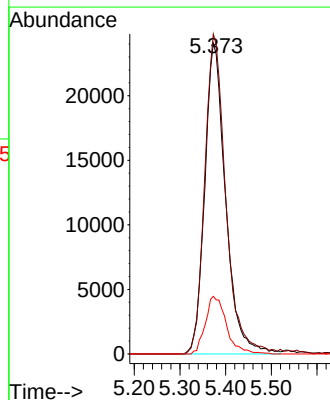
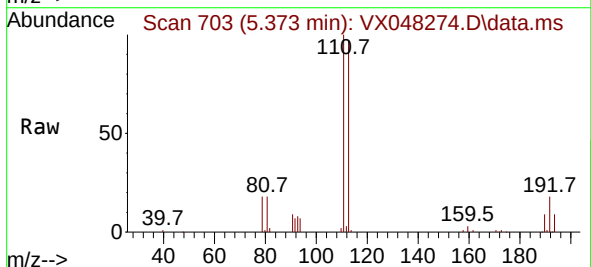
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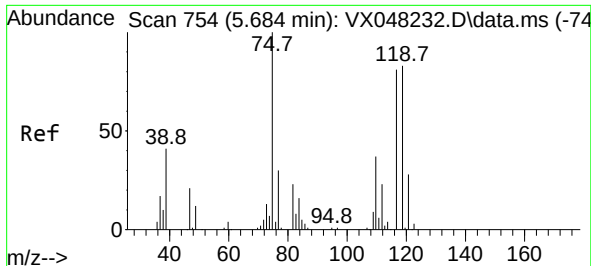
Tgt Ion:114 Resp: 236203
Ion Ratio Lower Upper
114 100
63 19.5 0.0 43.2
88 16.9 0.0 33.6



#35
Dibromofluoromethane
Concen: 47.388 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

Tgt Ion:113 Resp: 76415
Ion Ratio Lower Upper
113 100
111 103.4 82.2 123.4
192 18.8 15.1 22.7

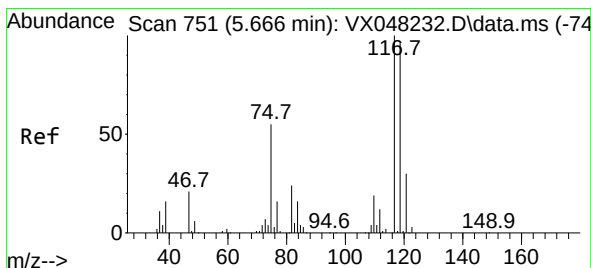
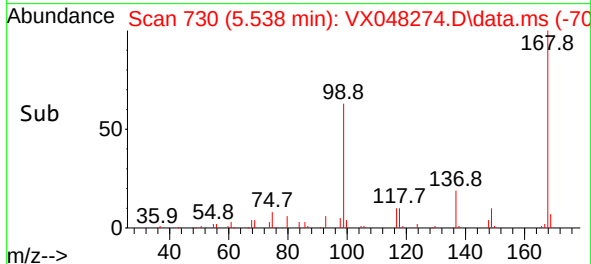
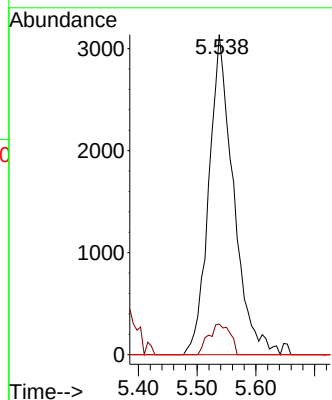
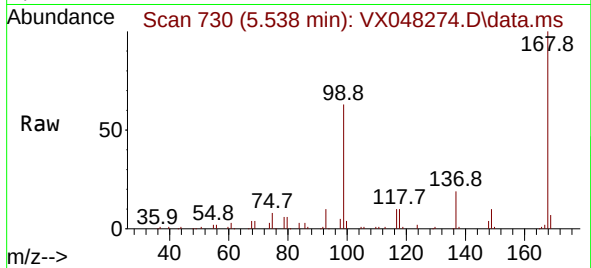




#36
1,1-Dichloropropene
Concen: 3.986 ug/l
RT: 5.538 min Scan# 711
Delta R.T. -0.146 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

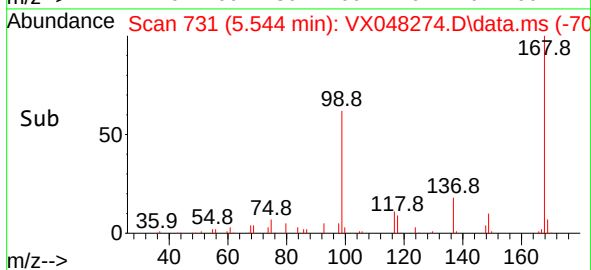
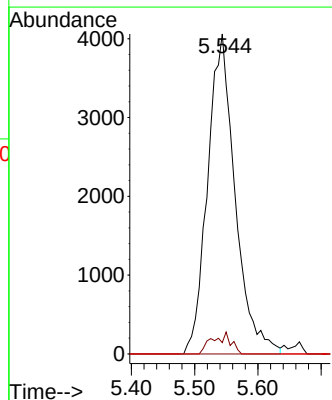
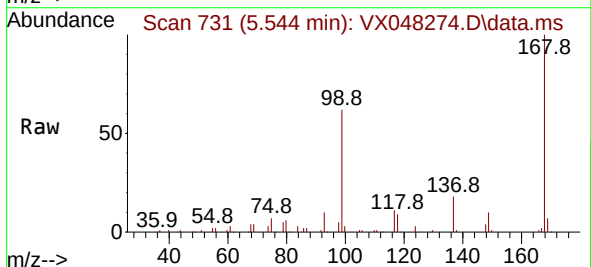
Instrument :
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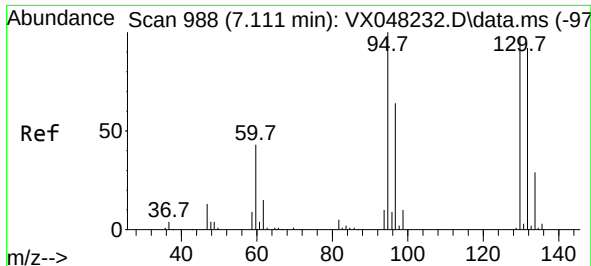
Tgt Ion: 75 Resp: 9135
Ion Ratio Lower Upper
75 100
110 8.4 17.7 53.1#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 4.339 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.122 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

Tgt Ion: 117 Resp: 12268
Ion Ratio Lower Upper
117 100
119 3.5 77.2 115.8#
121 0.0 24.8 37.2#

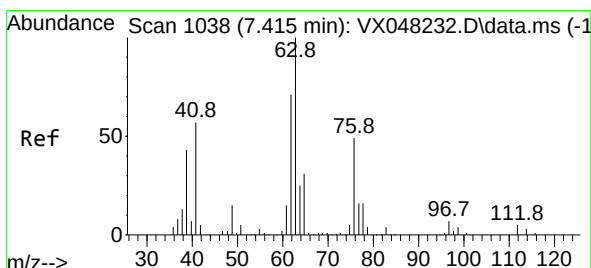
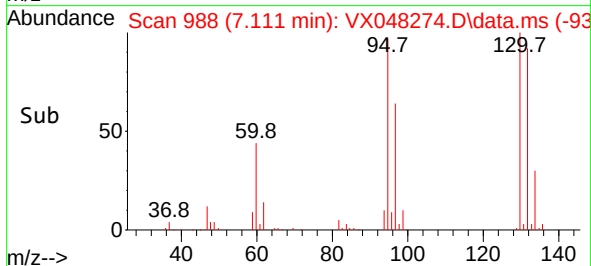
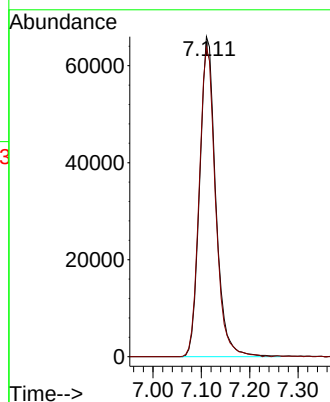
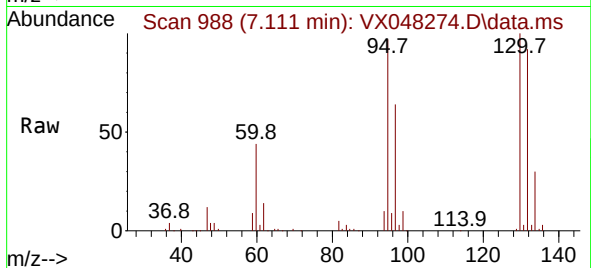




#44
Trichloroethene
Concen: 86.725 ug/l
RT: 7.111 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

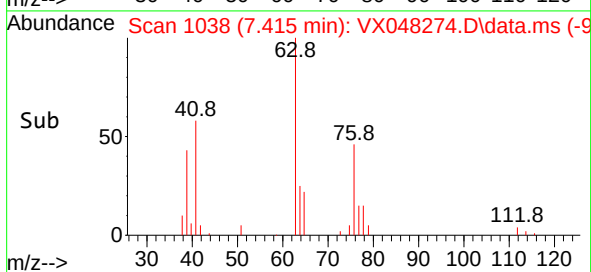
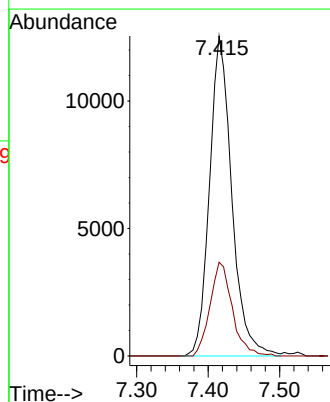
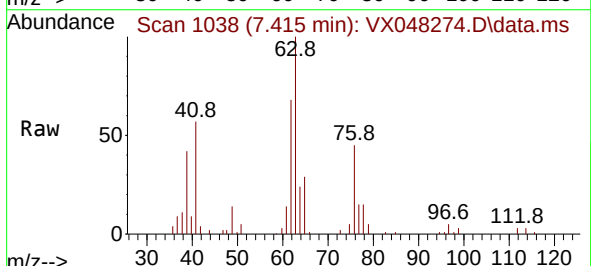
Instrument :
MSVOA_X
ClientSampleId :
FRAC-TANK-0760450

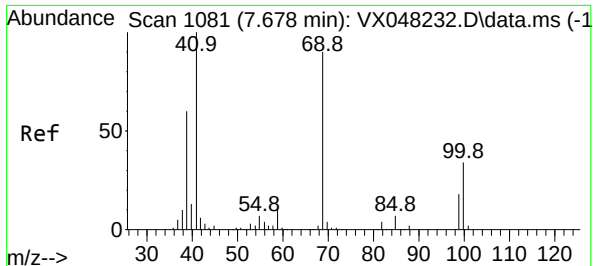
Tgt Ion:130 Resp: 152383
Ion Ratio Lower Upper
130 100
95 96.7 0.0 200.6



#45
1,2-Dichloropropane
Concen: 17.151 ug/l
RT: 7.415 min Scan# 1038
Delta R.T. -0.000 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

Tgt Ion: 63 Resp: 27134
Ion Ratio Lower Upper
63 100
65 29.3 24.1 36.1

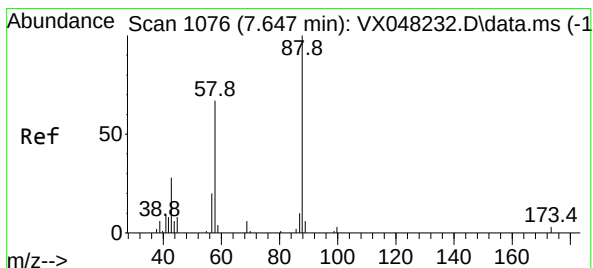
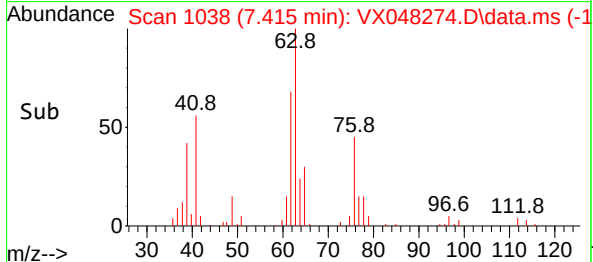
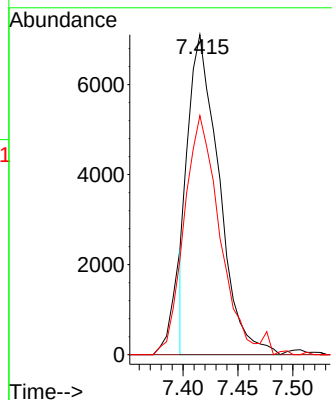
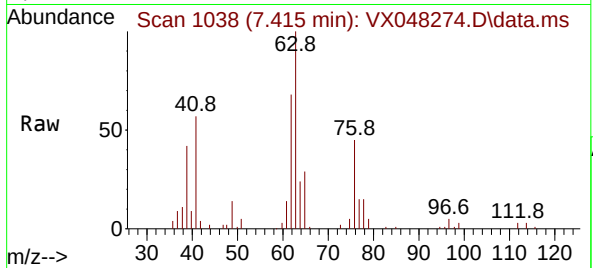




#48
Methyl methacrylate
Concen: 8.863 ug/l
RT: 7.415 min Scan# 1038
Delta R.T. -0.262 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

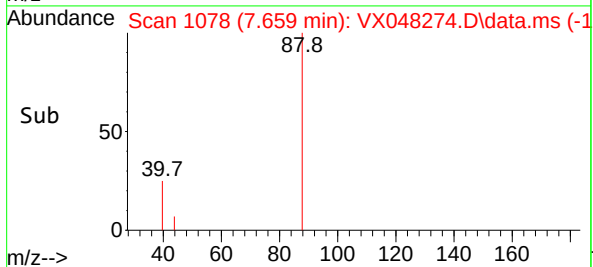
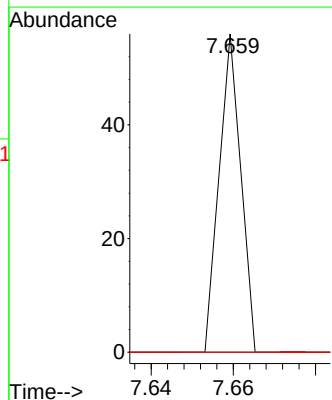
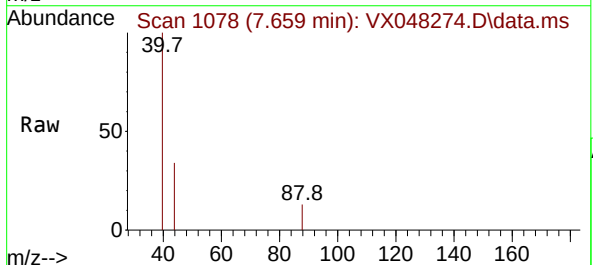
Instrument :
MSVOA_X
ClientSampleId :
FRAC-TANK-0760450

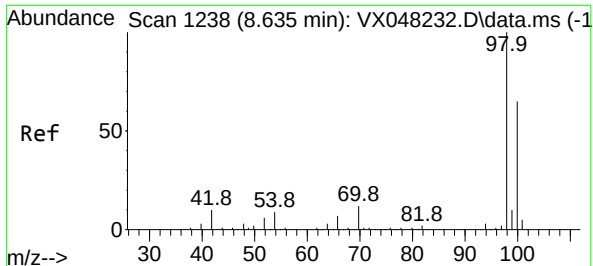
Tgt Ion: 41 Resp: 13956
Ion Ratio Lower Upper
41 100
69 0.0 63.4 95.0#
39 68.3 47.1 70.7



#49
1,4-Dioxane
Concen: 0.961 ug/l
RT: 7.659 min Scan# 1078
Delta R.T. 0.018 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 0.0 35.0 52.4#
58 0.0 61.9 92.9#

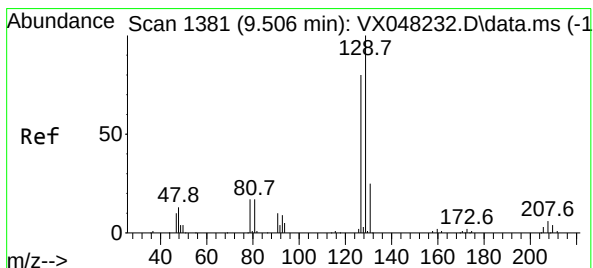
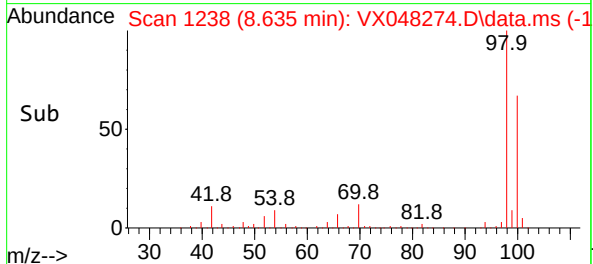
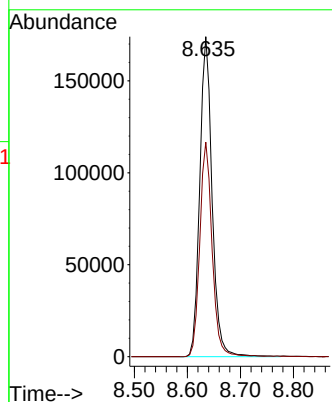
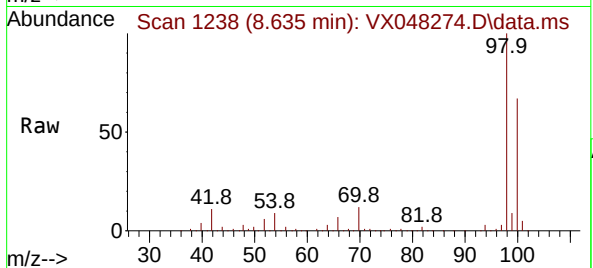




#50
Toluene-d8
Concen: 49.781 ug/l
RT: 8.635 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

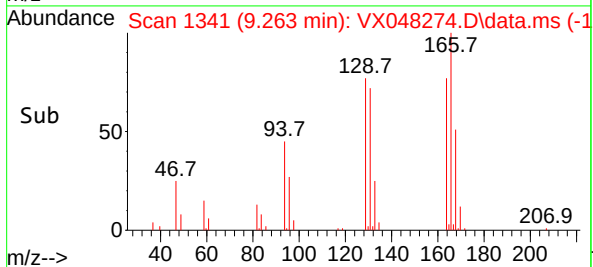
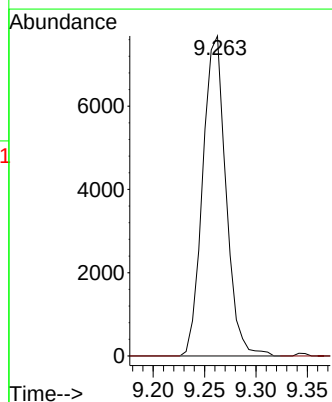
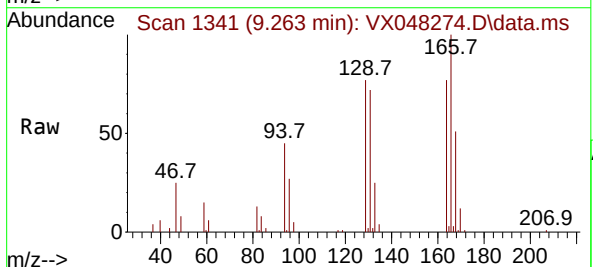
Instrument :
MSVOA_X
ClientSampleId :
FRAC-TANK-0760450

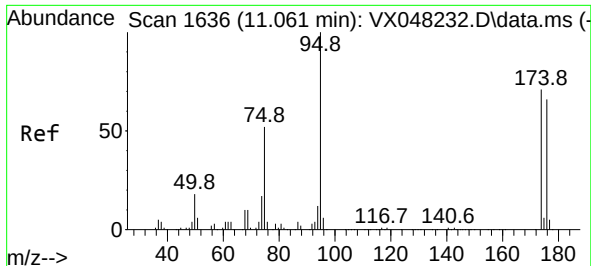
Tgt Ion: 98 Resp: 281369
Ion Ratio Lower Upper
98 100
100 67.0 53.0 79.4



#60
Dibromochloromethane
Concen: 5.728 ug/l
RT: 9.263 min Scan# 1341
Delta R.T. -0.244 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

Tgt Ion: 129 Resp: 12103
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.7#

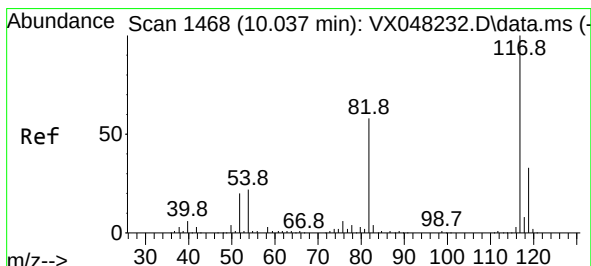
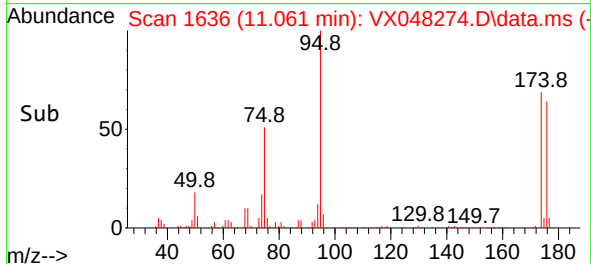
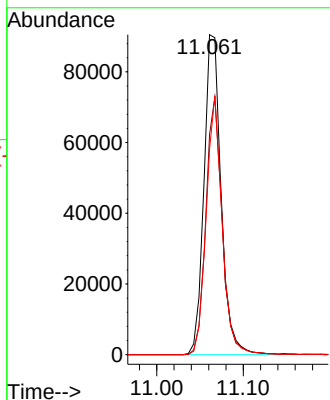
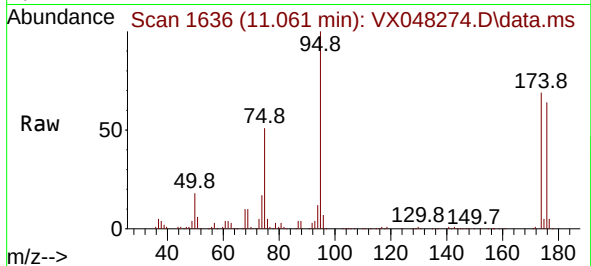




#62
4-Bromofluorobenzene
Concen: 57.961 ug/l
RT: 11.061 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

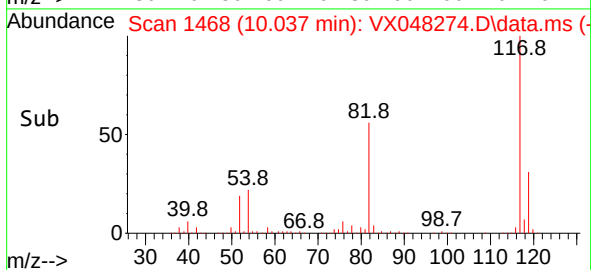
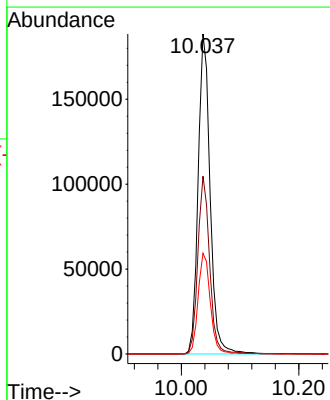
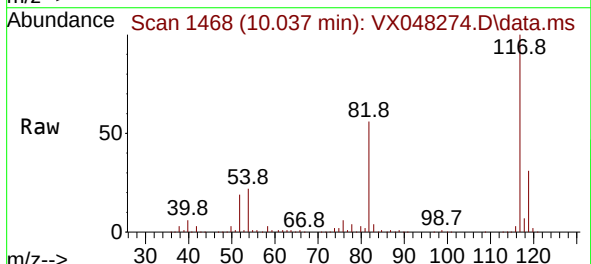
Instrument :
MSVOA_X
ClientSampleId :
FRAC-TANK-0760450

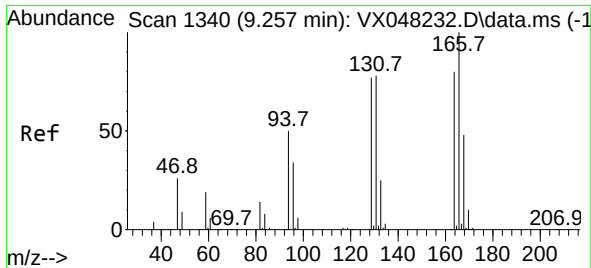
Tgt Ion: 95 Resp: 124629
Ion Ratio Lower Upper
95 100
174 77.1 0.0 147.8
176 75.2 0.0 142.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

Tgt Ion: 117 Resp: 265928
Ion Ratio Lower Upper
117 100
82 55.5 46.5 69.7
119 31.5 25.9 38.9

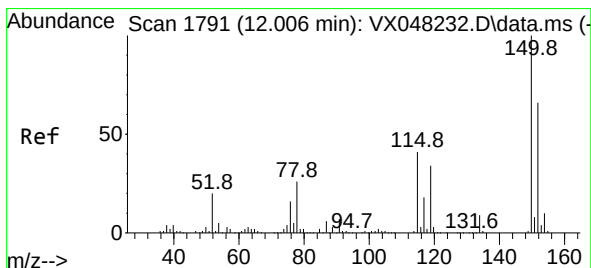
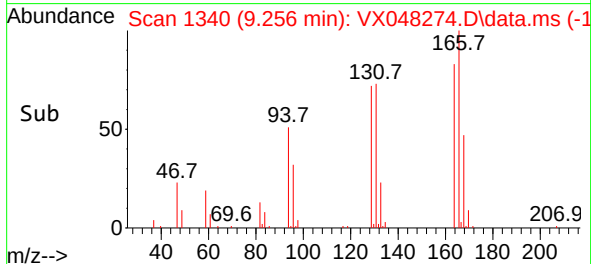
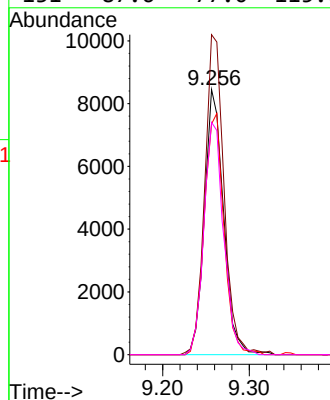
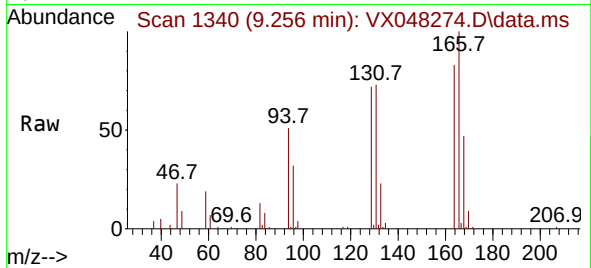




#64
Tetrachloroethene
Concen: 6.527 ug/l
RT: 9.256 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

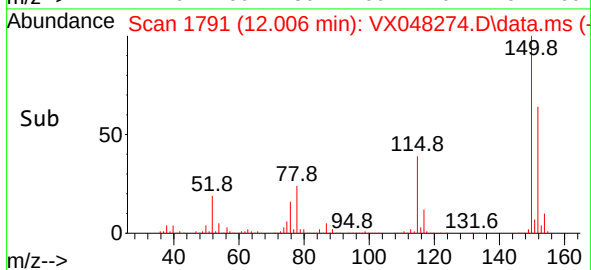
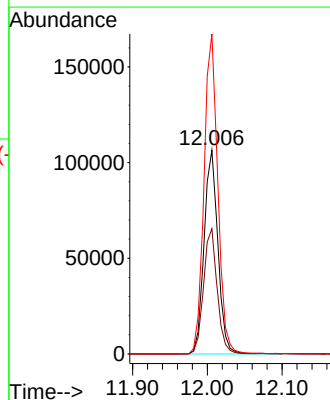
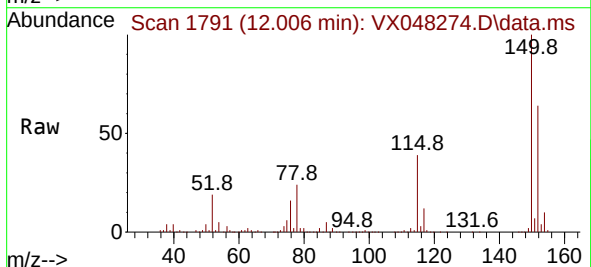
Instrument :
MSVOA_X
ClientSampleId :
FRAC-TANK-0760450

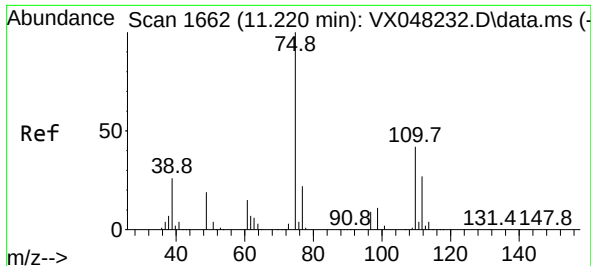
Tgt Ion:164 Resp: 12958
Ion Ratio Lower Upper
164 100
166 120.7 104.5 156.7
129 87.0 81.8 122.6
131 87.6 77.0 115.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

Tgt Ion:152 Resp: 136752
Ion Ratio Lower Upper
152 100
115 61.1 43.1 129.4
150 156.4 0.0 353.0

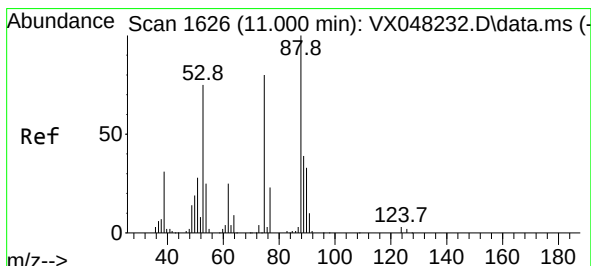
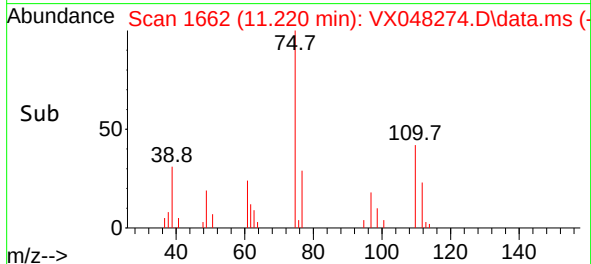
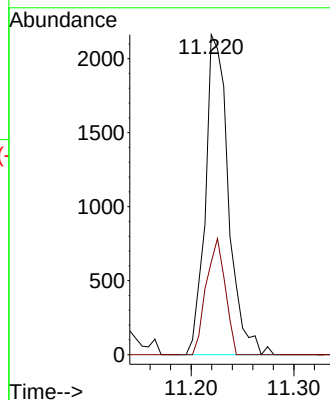
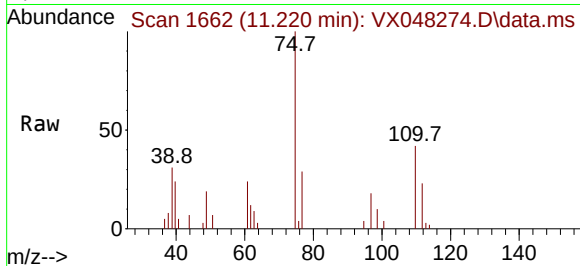




#76
1,2,3-Trichloropropane
Concen: 1.525 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

Instrument :
MSVOA_X
ClientSampleId :
FRAC-TANK-0760450

Tgt Ion: 75 Resp: 3382
Ion Ratio Lower Upper
75 100
77 29.7 22.4 67.2



#81
trans-1,4-Dichloro-2-butene
Concen: 69.229 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048274.D
Acq: 21 Oct 2025 16:46

Tgt Ion: 75 Resp: 63104
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#

