

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072325\
 Data File : VX047098.D
 Acq On : 23 Jul 2025 17:36
 Operator : JC/MD
 Sample : PB168966TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB168966TB

Quant Time: Jul 24 05:55:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

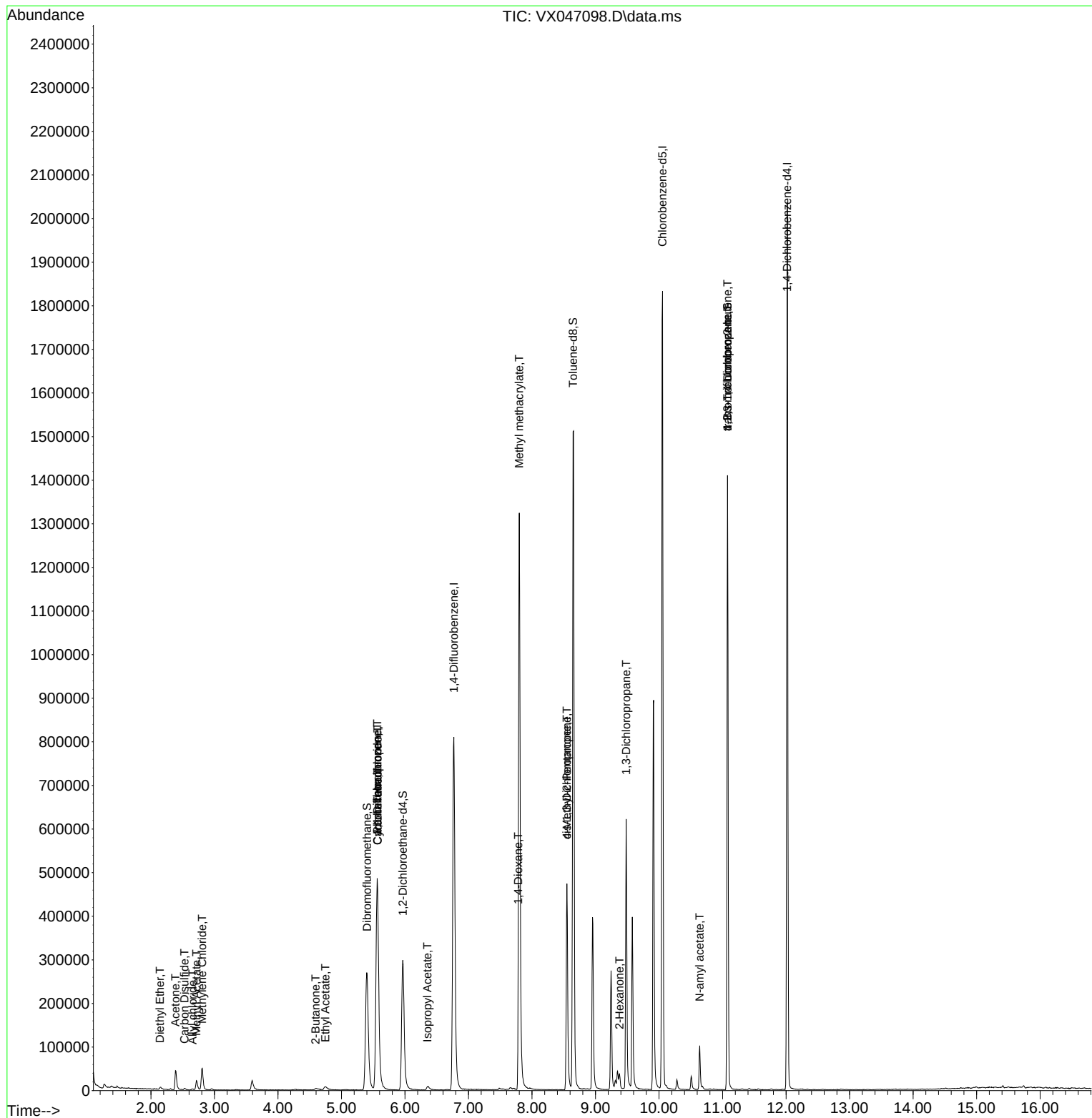
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	479643	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	866424	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	802189	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	393927	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	314539	52.644	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 105.280%	
35) Dibromofluoromethane	5.403	113	257775	48.186	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 96.380%	
50) Toluene-d8	8.647	98	939665	54.239	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 108.480%	
62) 4-Bromofluorobenzene	11.079	95	374821	50.204	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 100.400%	
Target Compounds						Qvalue
8) Diethyl Ether	2.142	74	1804	0.507	ug/l	86
11) Tert butyl alcohol	2.959	59	320	Below Cal	#	72
14) Allyl chloride	2.654	41	2814	0.258	ug/l #	47
16) Acetone	2.386	43	57559	24.048	ug/l	98
17) Carbon Disulfide	2.526	76	3756	0.215	ug/l #	85
18) Methyl Acetate	2.715	43	31199	4.905	ug/l	100
20) Methylene Chloride	2.806	84	24625	3.740	ug/l	99
25) 2-Butanone	4.593	43	3294	0.945	ug/l #	49
31) Cyclohexane	5.568	56	10608	0.950	ug/l #	14
36) 1,1-Dichloropropene	5.562	75	40064	4.394	ug/l #	50
37) Ethyl Acetate	4.745	43	14720	1.752	ug/l #	89
38) Carbon Tetrachloride	5.568	117	51377	5.279	ug/l #	16
43) Isopropyl Acetate	6.354	43	14641	1.118	ug/l	96
48) Methyl methacrylate	7.799	41	125155	17.538	ug/l #	46
49) 1,4-Dioxane	7.781	88	50	0.616	ug/l #	20
51) 4-Methyl-2-Pentanone	8.549	43	172030	22.094	ug/l #	49
54) cis-1,3-Dichloropropene	8.549	75	76546	7.507	ug/l #	63
57) 1,3-Dichloropropane	9.482	76	5475	0.518	ug/l #	43
59) 2-Hexanone	9.378	43	23686	4.604	ug/l #	25
74) N-amyl acetate	10.640	43	26928	2.147	ug/l #	55
76) 1,2,3-Trichloropropane	11.079	75	197770	27.124	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	197770	69.882	ug/l #	8

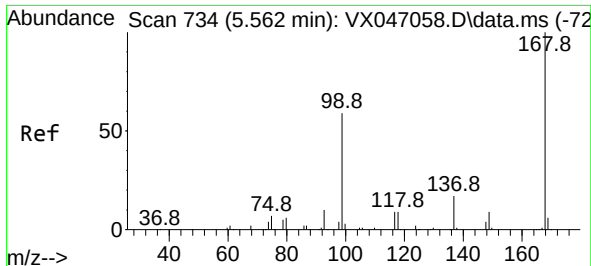
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

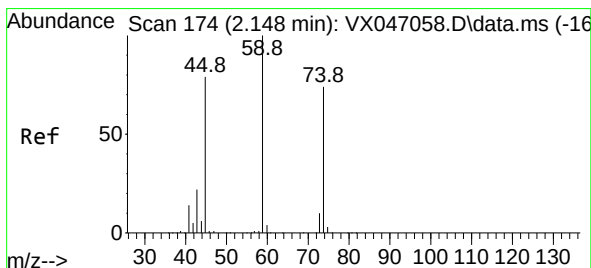
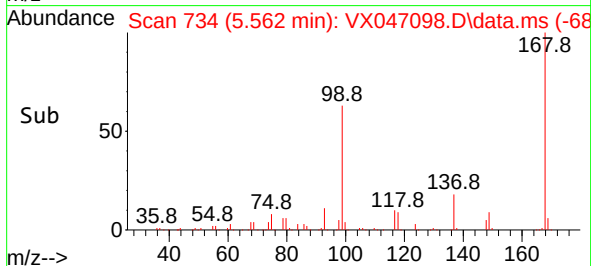
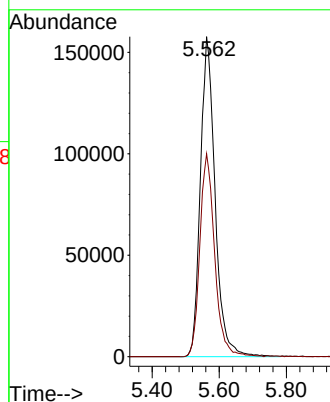
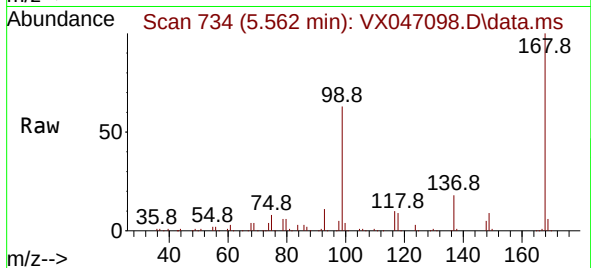




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047098.D
Acq: 23 Jul 2025 17:36

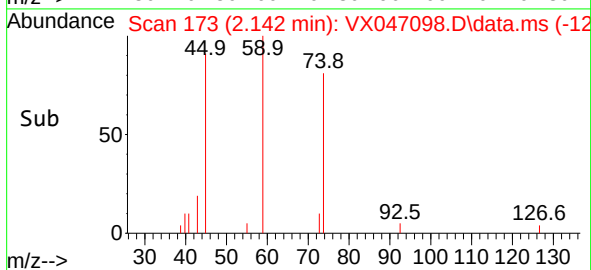
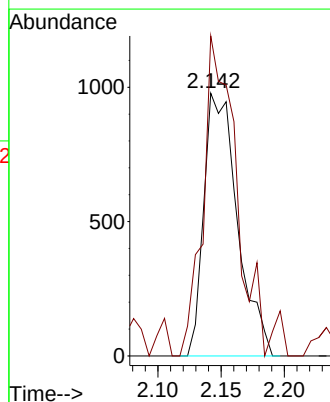
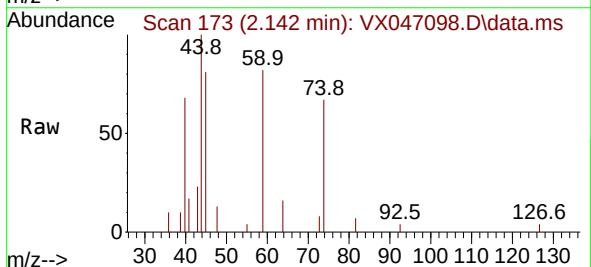
Instrument :
MSVOA_X
ClientSampleId :
PB168966TB

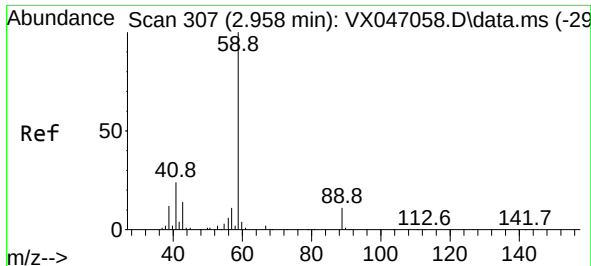
Tgt Ion:168 Resp: 479643
Ion Ratio Lower Upper
168 100
99 63.4 48.0 72.0



#8
Diethyl Ether
Concen: 0.507 ug/l
RT: 2.142 min Scan# 173
Delta R.T. -0.006 min
Lab File: VX047098.D
Acq: 23 Jul 2025 17:36

Tgt Ion: 74 Resp: 1804
Ion Ratio Lower Upper
74 100
45 120.4 53.0 159.0





#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.959 min Scan# 307

Delta R.T. 0.001 min

Lab File: VX047098.D

Acq: 23 Jul 2025 17:36

Instrument :

MSVOA_X

ClientSampleId :

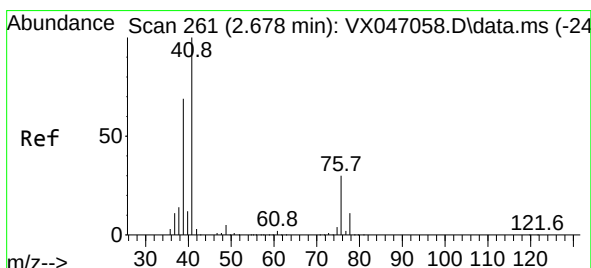
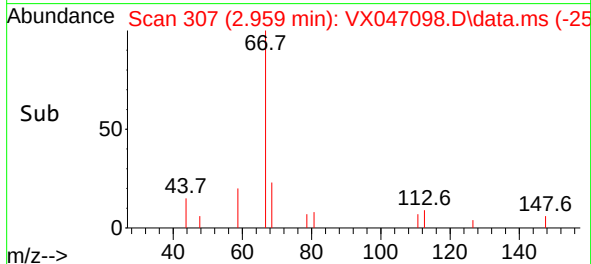
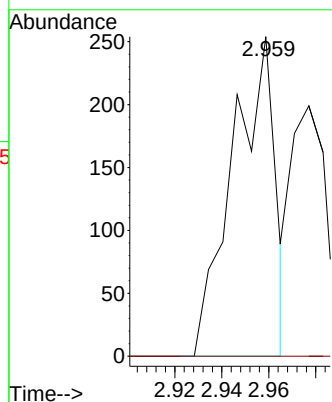
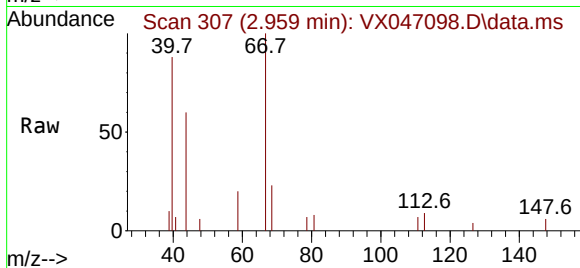
PB168966TB

Tgt Ion: 59 Resp: 320

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#14

Allyl chloride

Concen: 0.258 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.024 min

Lab File: VX047098.D

Acq: 23 Jul 2025 17:36

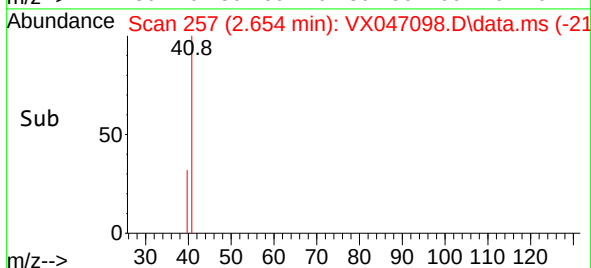
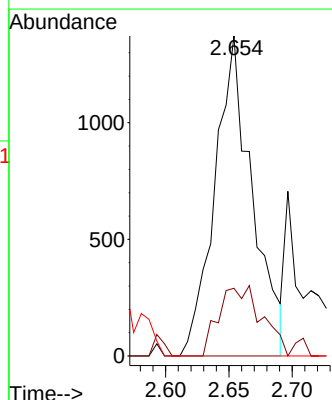
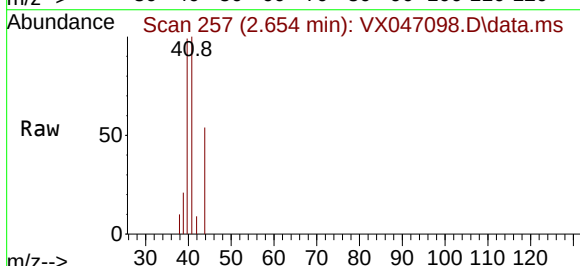
Tgt Ion: 41 Resp: 2814

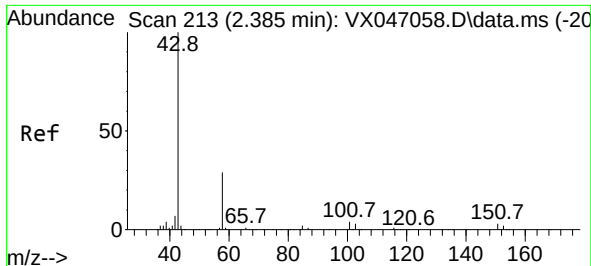
Ion Ratio Lower Upper

41 100

39 25.2 52.6 78.8#

76 0.0 25.7 38.5#

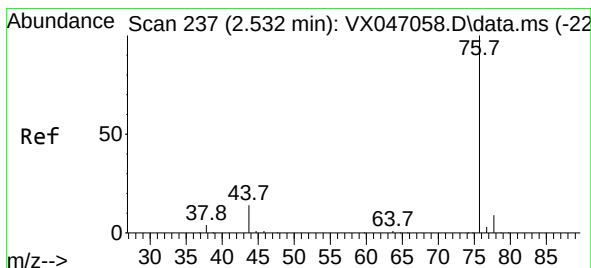
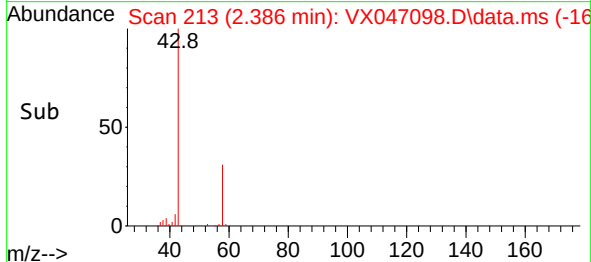
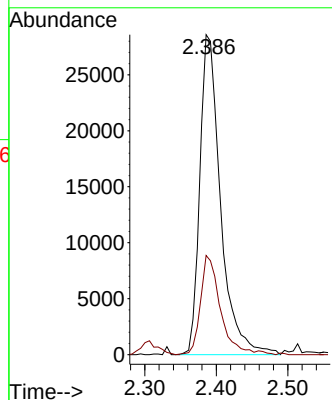
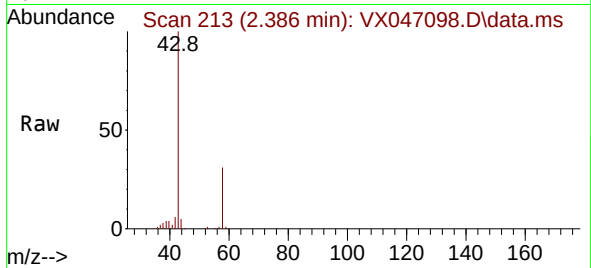




#16
Acetone
Concen: 24.048 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX047098.D
Acq: 23 Jul 2025 17:36

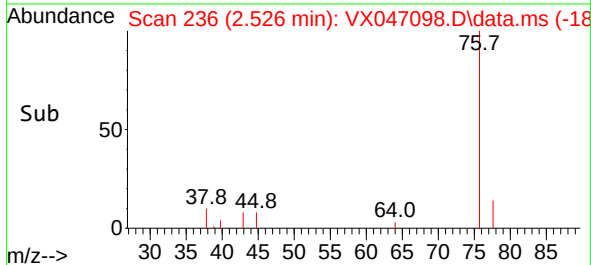
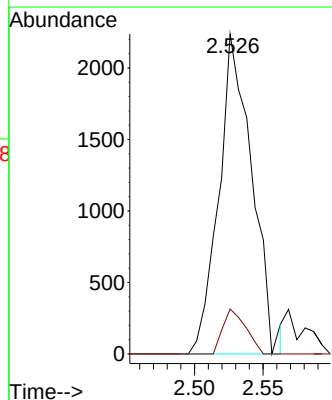
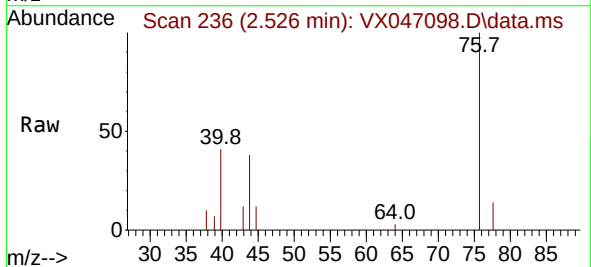
Instrument :
MSVOA_X
ClientSampleId :
PB168966TB

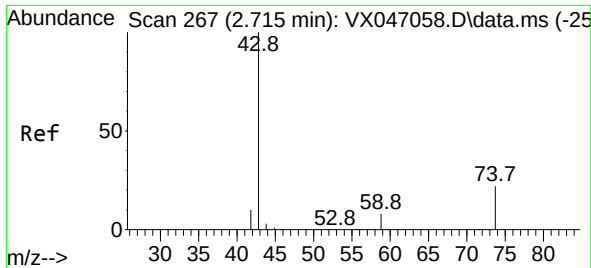
Tgt Ion: 43 Resp: 57559
Ion Ratio Lower Upper
43 100
58 30.8 24.0 36.0



#17
Carbon Disulfide
Concen: 0.215 ug/l
RT: 2.526 min Scan# 236
Delta R.T. -0.006 min
Lab File: VX047098.D
Acq: 23 Jul 2025 17:36

Tgt Ion: 76 Resp: 3756
Ion Ratio Lower Upper
76 100
78 14.1 7.0 10.4#

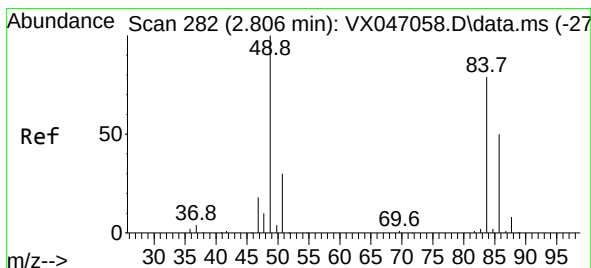
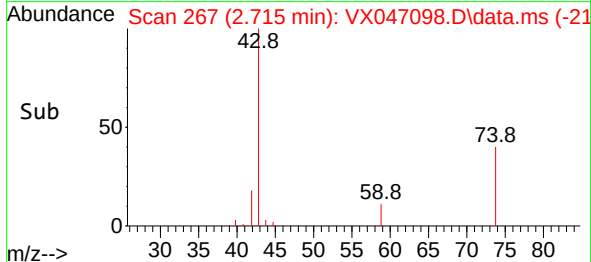
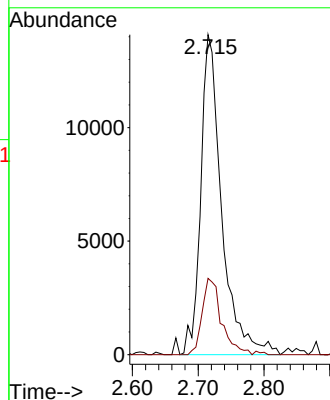
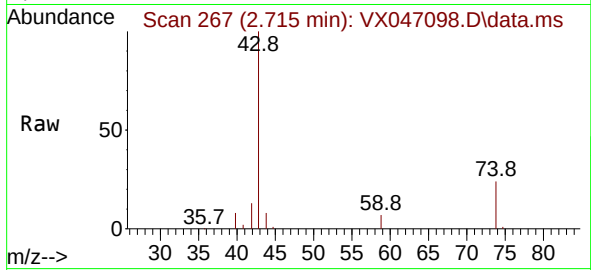




#18
Methyl Acetate
Concen: 4.905 ug/l
RT: 2.715 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX047098.D
Acq: 23 Jul 2025 17:36

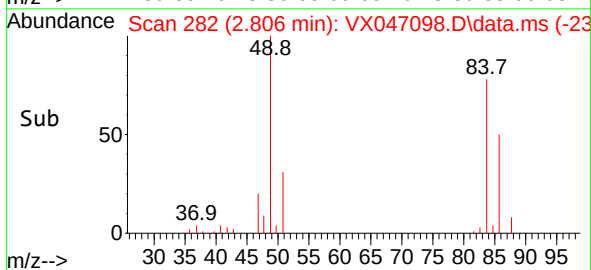
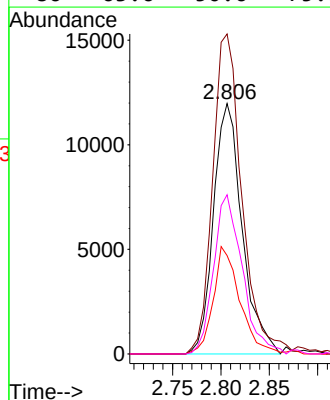
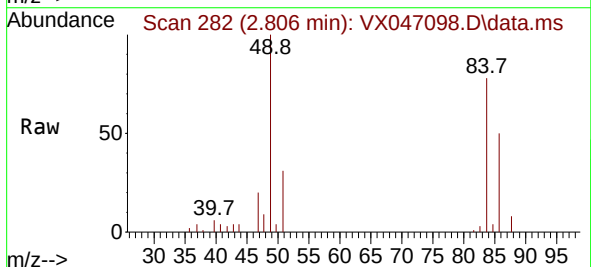
Instrument :
MSVOA_X
ClientSampleId :
PB168966TB

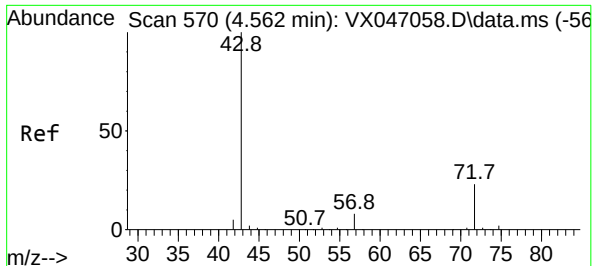
Tgt Ion: 43 Resp: 31199
Ion Ratio Lower Upper
43 100
74 21.9 17.7 26.5



#20
Methylene Chloride
Concen: 3.740 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047098.D
Acq: 23 Jul 2025 17:36

Tgt Ion: 84 Resp: 24625
Ion Ratio Lower Upper
84 100
49 127.8 101.6 152.4
51 39.3 30.3 45.5
86 63.6 50.6 75.8





#25

2-Butanone

Concen: 0.945 ug/l

RT: 4.593 min Scan# 51

Delta R.T. 0.031 min

Lab File: VX047098.D

Acq: 23 Jul 2025 17:36

Instrument :

MSVOA_X

ClientSampleId :

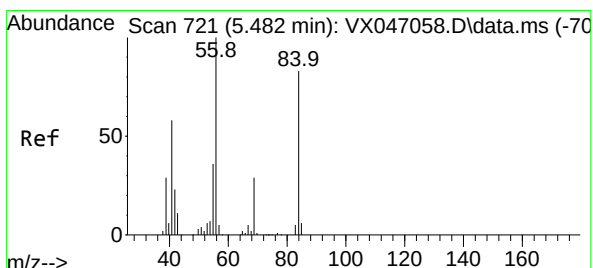
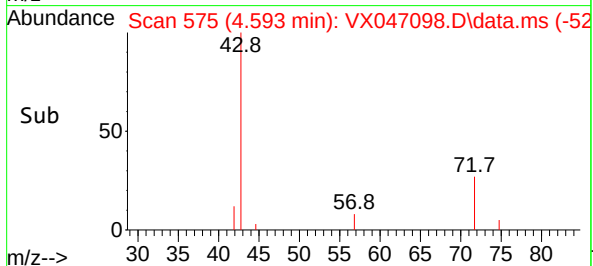
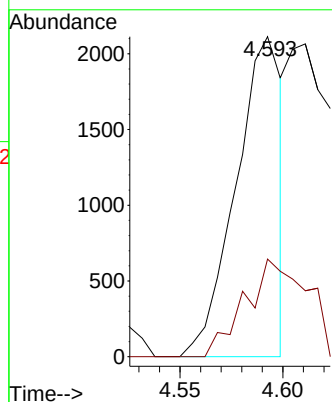
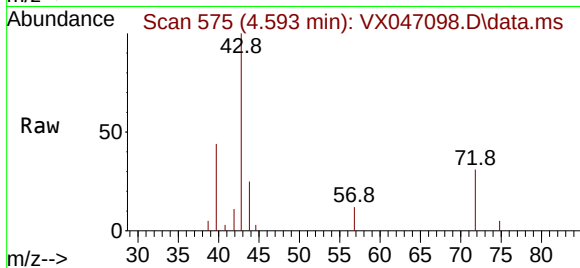
PB168966TB

Tgt Ion: 43 Resp: 3294

Ion Ratio Lower Upper

43 100

72 48.5 18.8 28.2#



#31

Cyclohexane

Concen: 0.950 ug/l

RT: 5.568 min Scan# 735

Delta R.T. 0.086 min

Lab File: VX047098.D

Acq: 23 Jul 2025 17:36

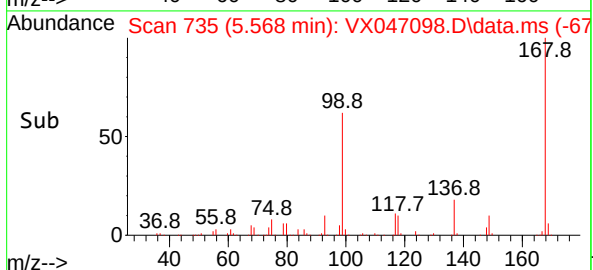
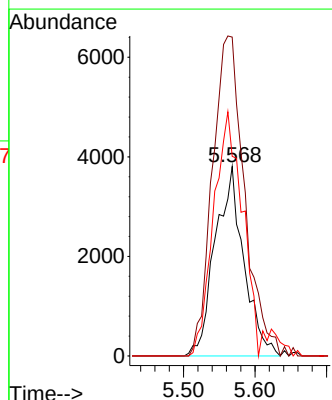
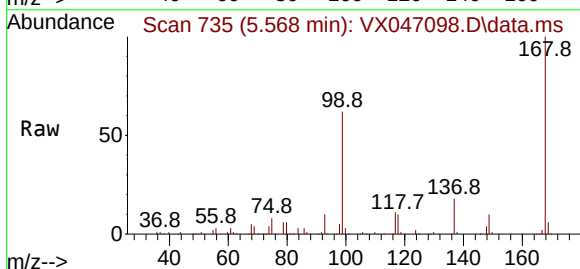
Tgt Ion: 56 Resp: 10608

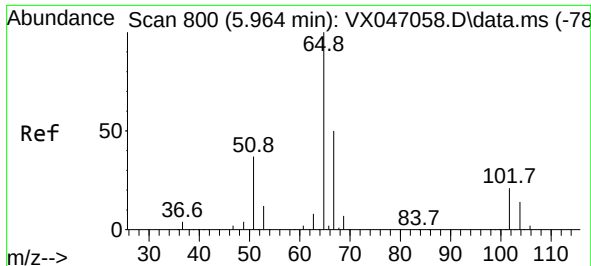
Ion Ratio Lower Upper

56 100

69 168.3 23.3 34.9#

84 105.4 66.5 99.7#





#33

1,2-Dichloroethane-d4

Concen: 52.644 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047098.D

Acq: 23 Jul 2025 17:36

Instrument :

MSVOA_X

ClientSampleId :

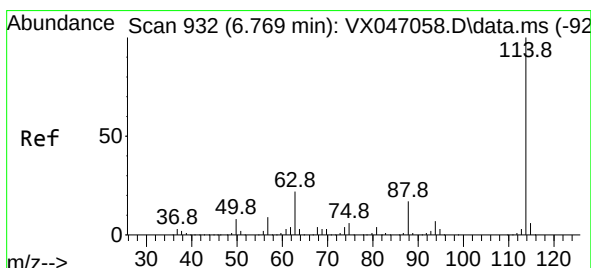
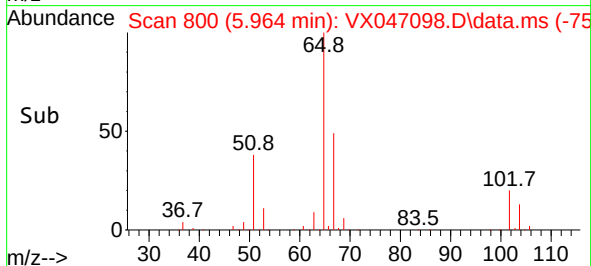
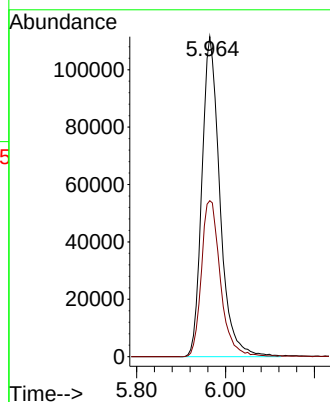
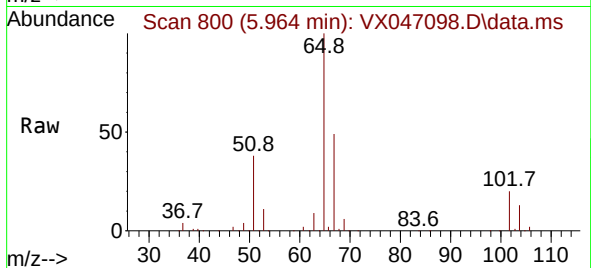
PB168966TB

Tgt Ion: 65 Resp: 314539

Ion Ratio Lower Upper

65 100

67 51.5 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047098.D

Acq: 23 Jul 2025 17:36

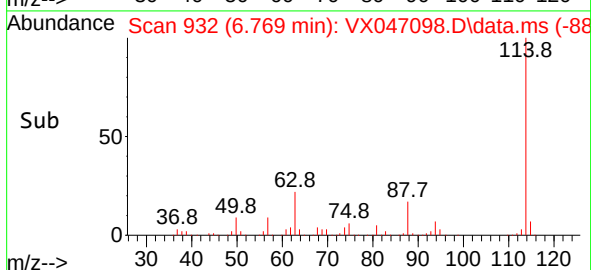
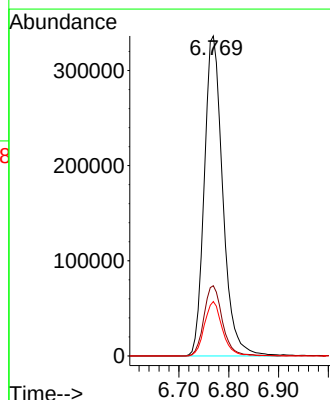
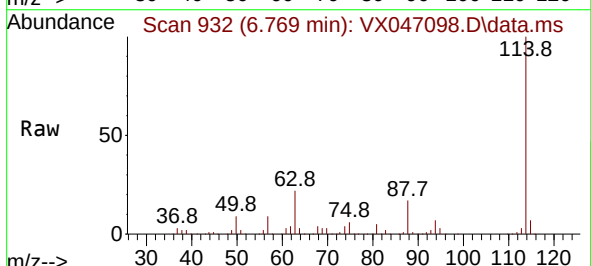
Tgt Ion: 114 Resp: 866424

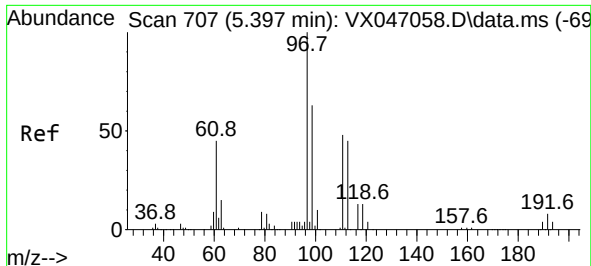
Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.2

88 17.0 0.0 33.8

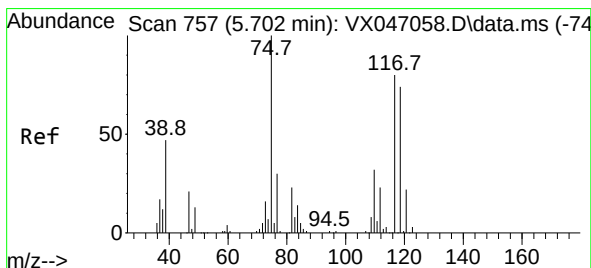
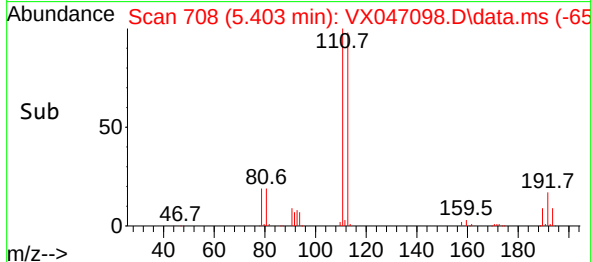
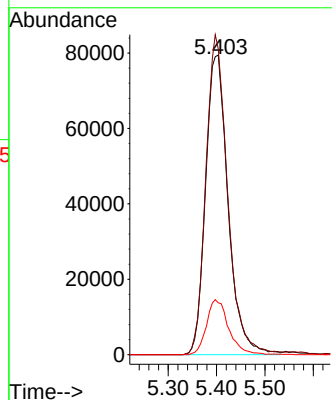
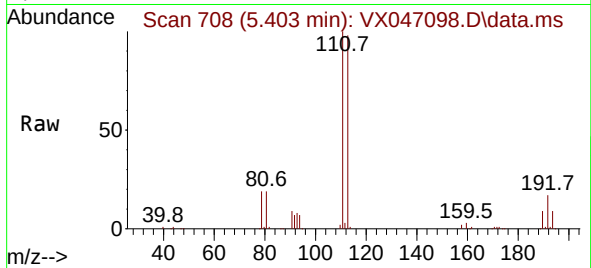




#35
Dibromofluoromethane
Concen: 48.186 ug/l
RT: 5.403 min Scan# 707
Delta R.T. 0.006 min
Lab File: VX047098.D
Acq: 23 Jul 2025 17:36

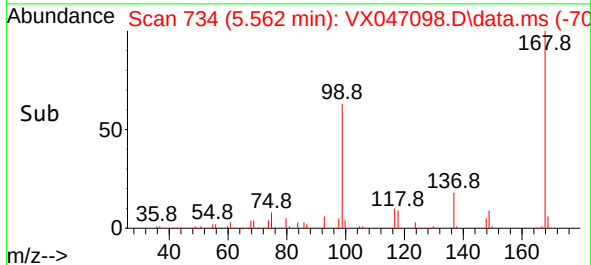
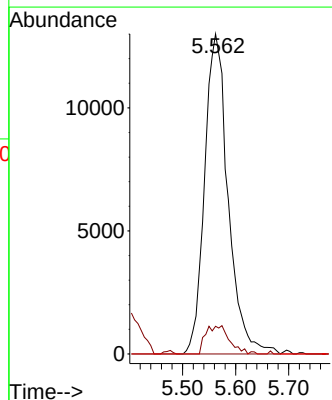
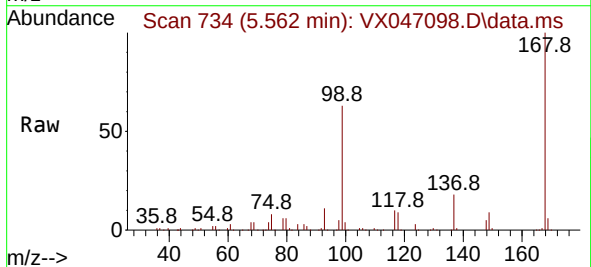
Instrument :
MSVOA_X
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PB168966TB

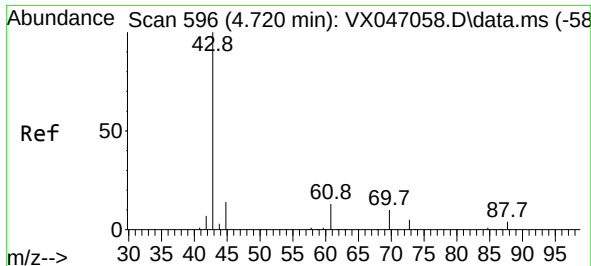
Tgt Ion:113 Resp: 257775
Ion Ratio Lower Upper
113 100
111 103.3 82.6 124.0
192 18.0 14.9 22.3



#36
1,1-Dichloropropene
Concen: 4.394 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.140 min
Lab File: VX047098.D
Acq: 23 Jul 2025 17:36

Tgt Ion: 75 Resp: 40064
Ion Ratio Lower Upper
75 100
110 9.0 17.2 51.5#
77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 1.752 ug/l

RT: 4.745 min Scan# 600

Delta R.T. 0.025 min

Lab File: VX047098.D

Acq: 23 Jul 2025 17:36

Instrument :

MSVOA_X

ClientSampleId :

PB168966TB

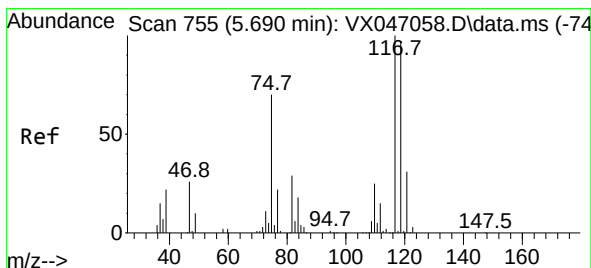
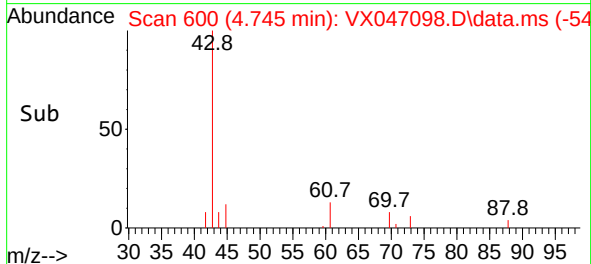
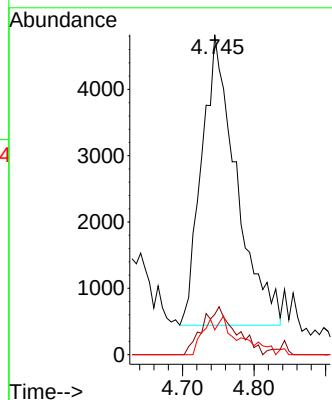
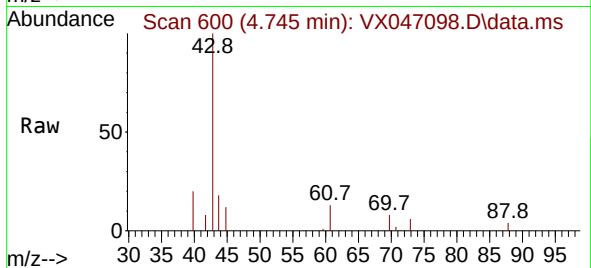
Tgt Ion: 43 Resp: 14720

Ion Ratio Lower Upper

43 100

61 15.7 10.2 15.2#

70 4.6 8.1 12.1#



#38

Carbon Tetrachloride

Concen: 5.279 ug/l

RT: 5.568 min Scan# 735

Delta R.T. -0.122 min

Lab File: VX047098.D

Acq: 23 Jul 2025 17:36

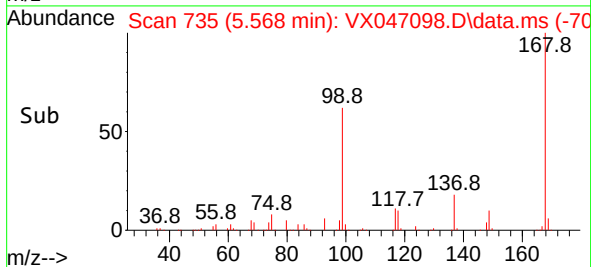
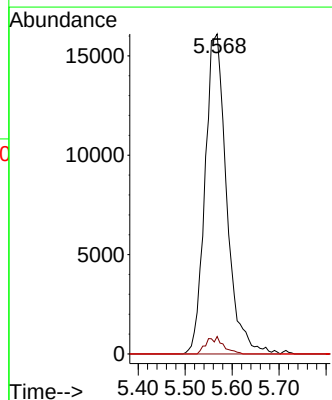
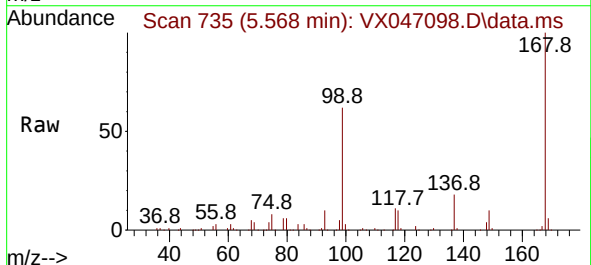
Tgt Ion: 117 Resp: 51377

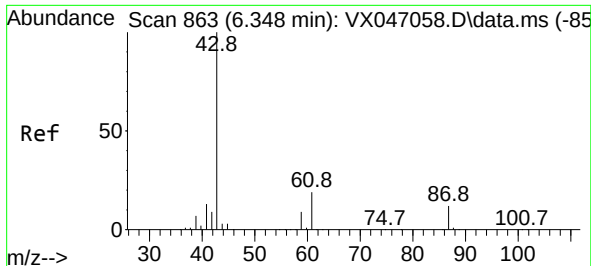
Ion Ratio Lower Upper

117 100

119 5.5 76.6 115.0#

121 0.0 24.4 36.6#

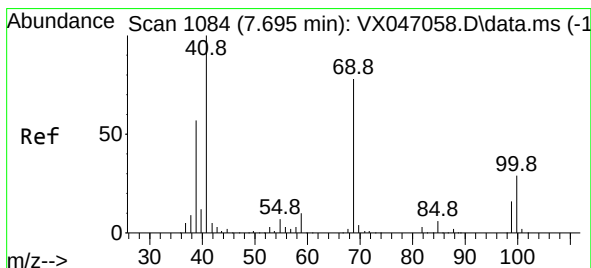
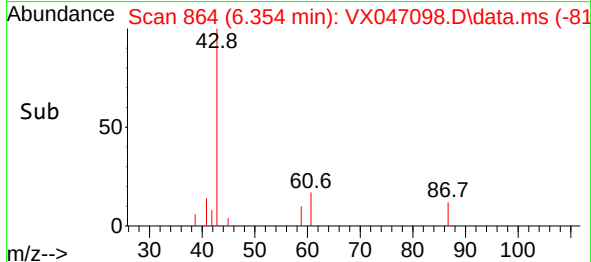
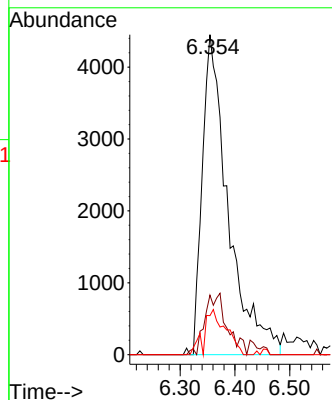
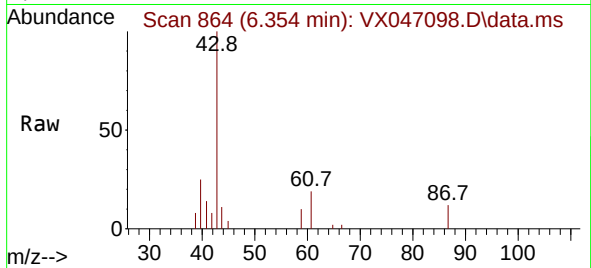




#43
Isopropyl Acetate
Concen: 1.118 ug/l
RT: 6.354 min Scan# 80
Delta R.T. 0.006 min
Lab File: VX047098.D
Acq: 23 Jul 2025 17:36

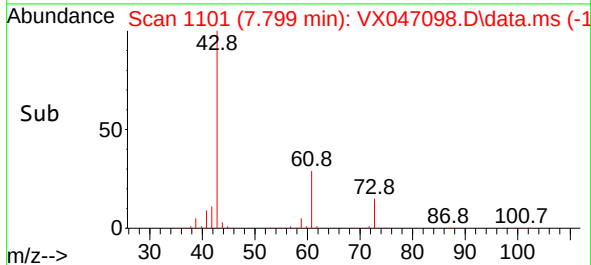
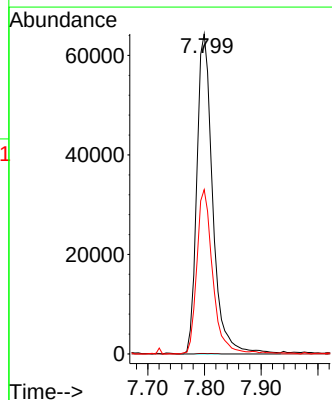
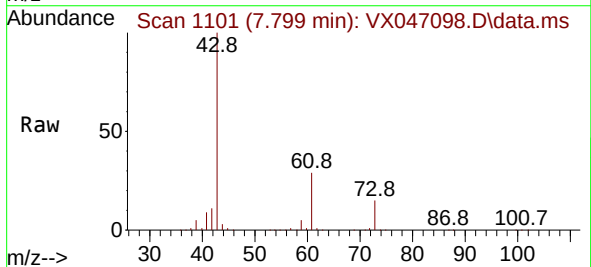
Instrument :
MSVOA_X
ClientSampleId :
PB168966TB

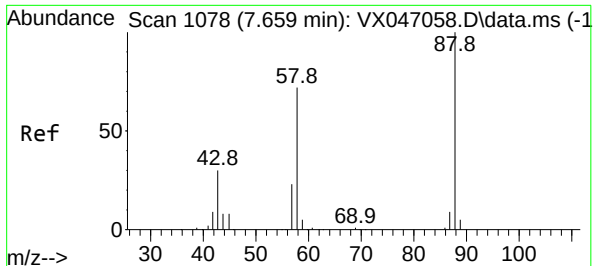
Tgt Ion:	43	Resp:	14641
Ion	Ratio	Lower	Upper
43	100		
61	16.4	15.1	22.7
87	11.8	9.7	14.5



#48
Methyl methacrylate
Concen: 17.538 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.104 min
Lab File: VX047098.D
Acq: 23 Jul 2025 17:36

Tgt Ion:	41	Resp:	125155
Ion	Ratio	Lower	Upper
41	100		
69	0.2	62.3	93.5#
39	51.7	44.8	67.2





#49

1,4-Dioxane

Concen: 0.616 ug/l

RT: 7.781 min Scan# 1098

Delta R.T. 0.122 min

Lab File: VX047098.D

Acq: 23 Jul 2025 17:36

Instrument :

MSVOA_X

ClientSampleId :

PB168966TB

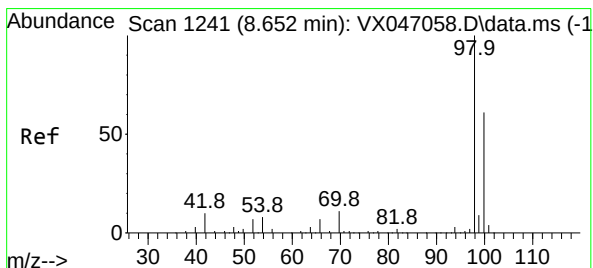
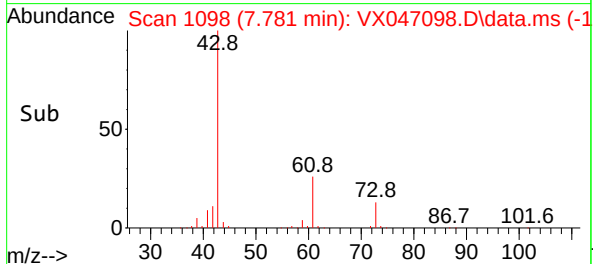
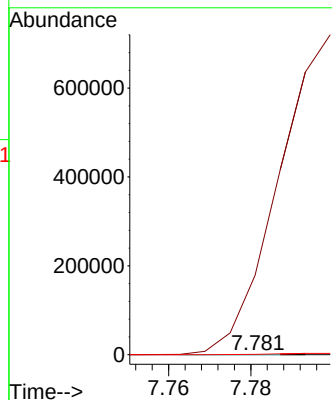
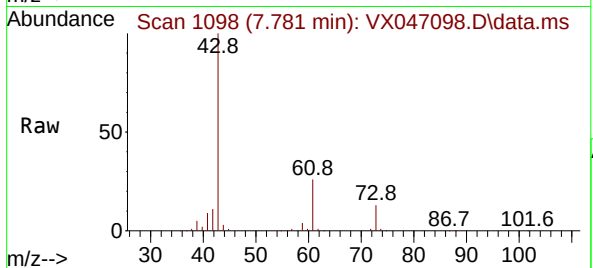
Tgt Ion: 88 Resp: 50

Ion Ratio Lower Upper

88 100

43 0.0 33.6 50.4#

58 0.0 58.8 88.2#



#50

Toluene-d8

Concen: 54.239 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX047098.D

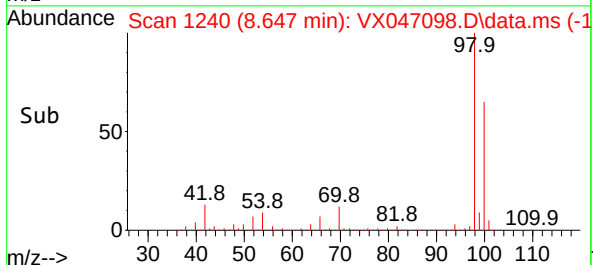
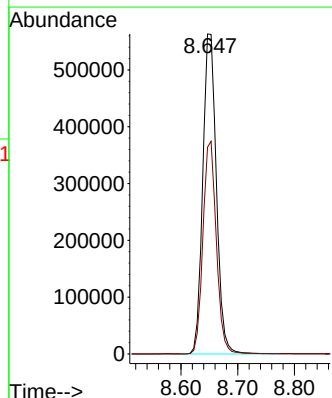
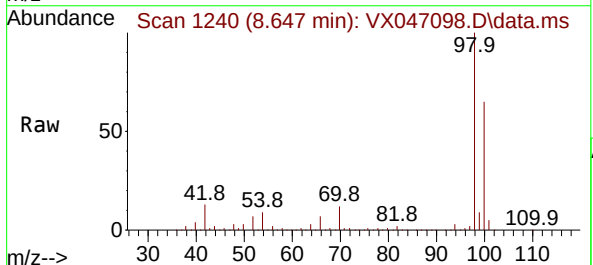
Acq: 23 Jul 2025 17:36

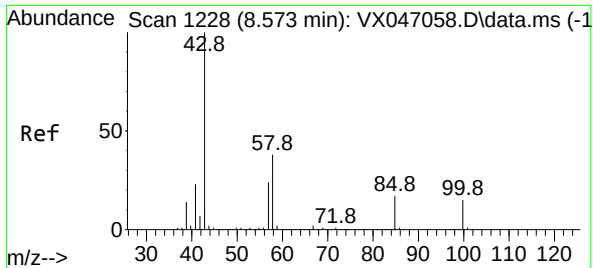
Tgt Ion: 98 Resp: 939665

Ion Ratio Lower Upper

98 100

100 65.4 53.3 79.9

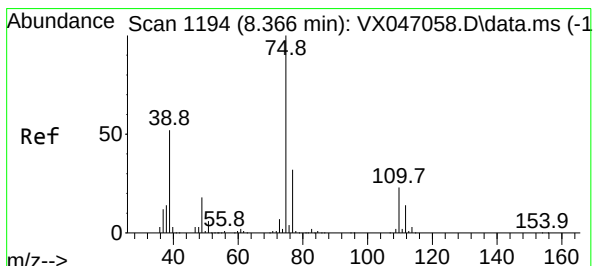
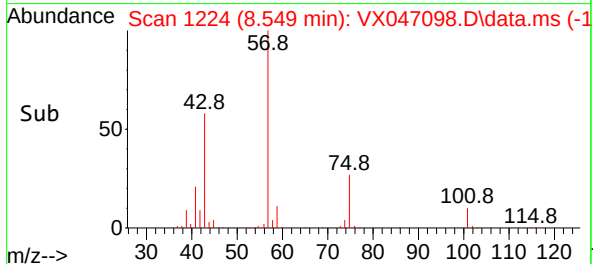
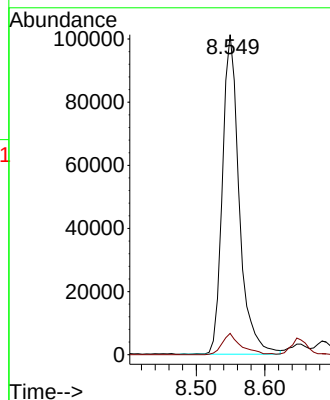
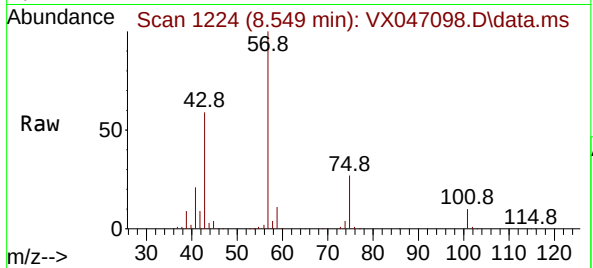




#51
4-Methyl-2-Pentanone
Concen: 22.094 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX047098.D
Acq: 23 Jul 2025 17:36

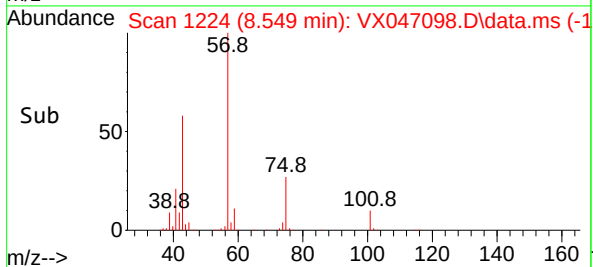
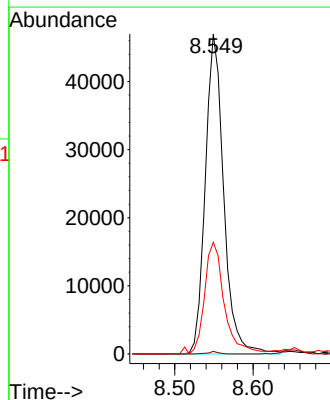
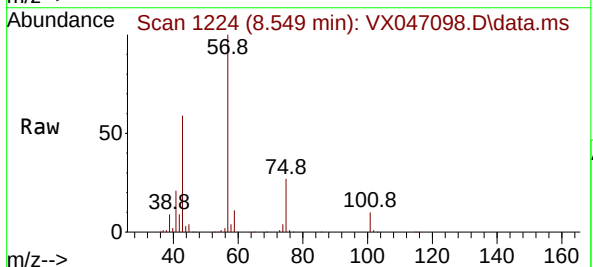
Instrument :
MSVOA_X
ClientSampleId :
PB168966TB

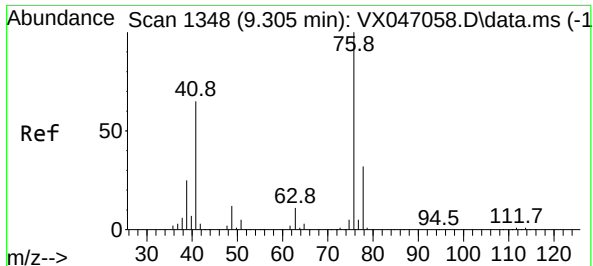
Tgt Ion: 43 Resp: 172030
Ion Ratio Lower Upper
43 100
58 7.5 30.6 45.8#



#54
cis-1,3-Dichloropropene
Concen: 7.507 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. 0.183 min
Lab File: VX047098.D
Acq: 23 Jul 2025 17:36

Tgt Ion: 75 Resp: 76546
Ion Ratio Lower Upper
75 100
77 0.8 25.4 38.0#
39 33.9 41.8 62.6#

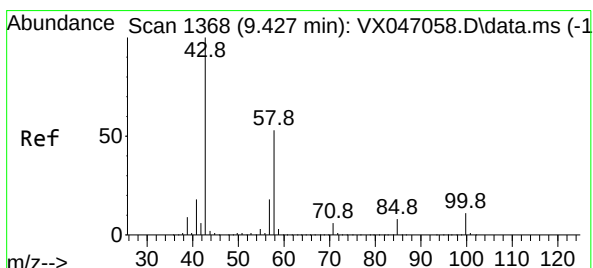
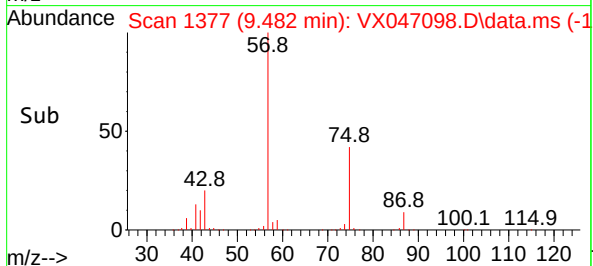
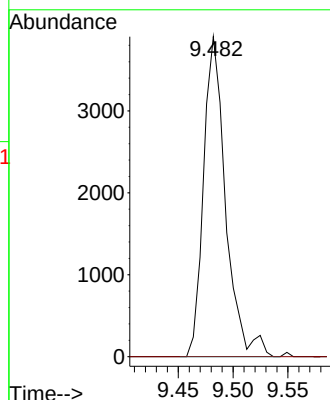
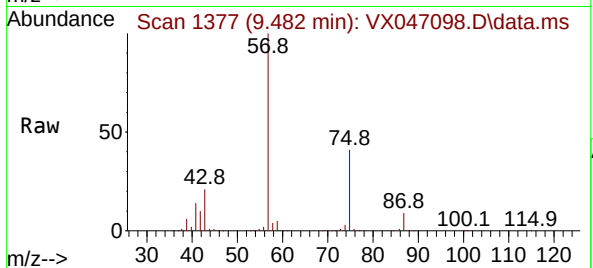




#57
1,3-Dichloropropane
Concen: 0.518 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.177 min
Lab File: VX047098.D
Acq: 23 Jul 2025 17:36

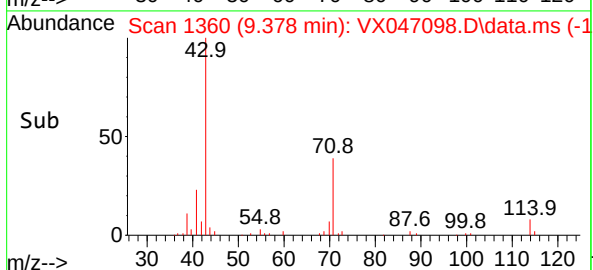
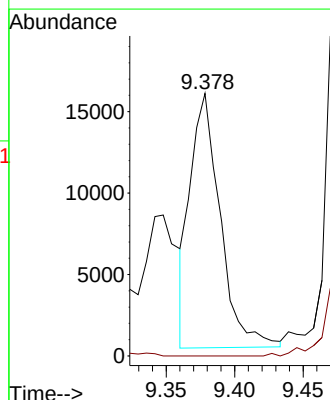
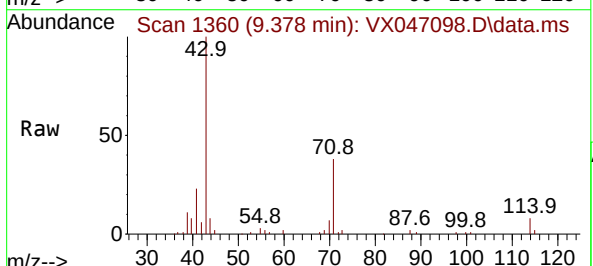
Instrument :
MSVOA_X
ClientSampleId :
PB168966TB

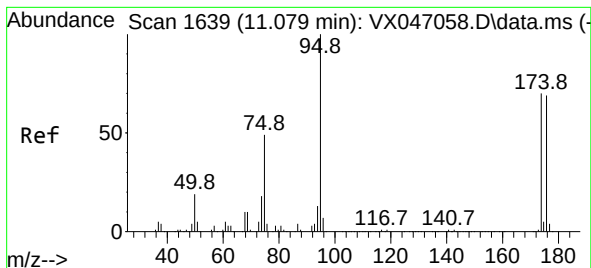
Tgt Ion: 76 Resp: 5475
Ion Ratio Lower Upper
76 100
78 0.0 25.5 38.3#



#59
2-Hexanone
Concen: 4.604 ug/l
RT: 9.378 min Scan# 1360
Delta R.T. -0.048 min
Lab File: VX047098.D
Acq: 23 Jul 2025 17:36

Tgt Ion: 43 Resp: 23686
Ion Ratio Lower Upper
43 100
58 0.0 26.5 79.5#

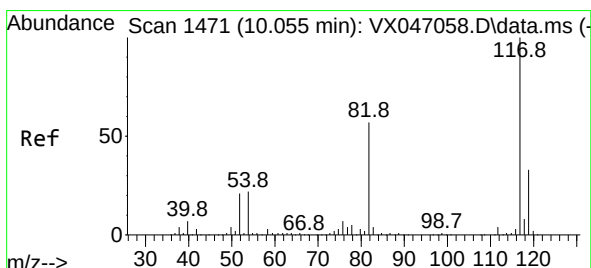
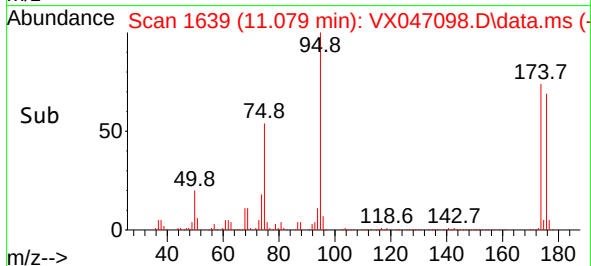
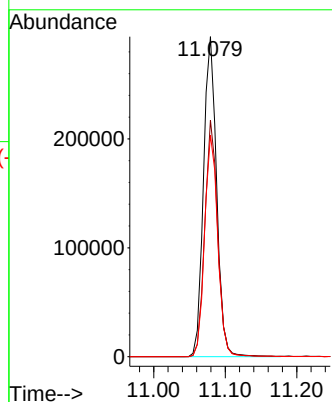
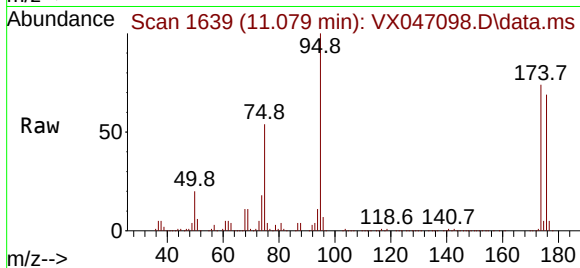




#62
4-Bromofluorobenzene
Concen: 50.204 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047098.D
Acq: 23 Jul 2025 17:36

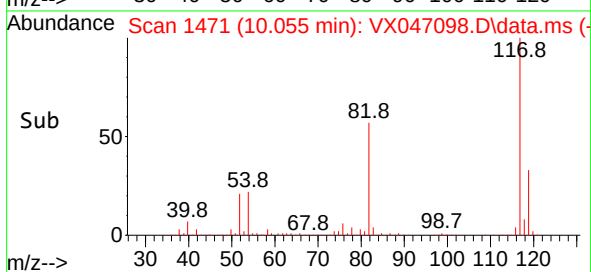
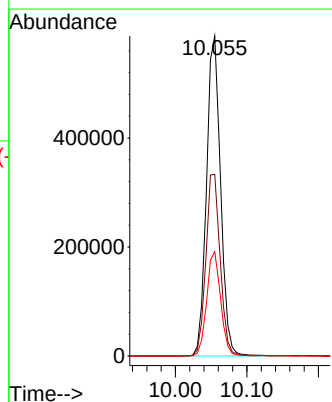
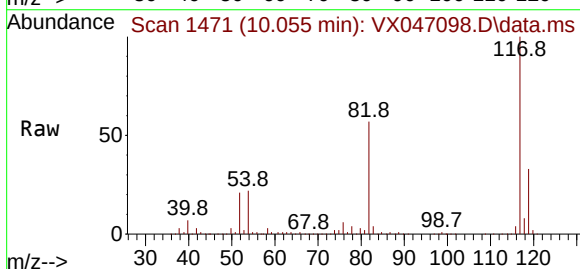
Instrument :
MSVOA_X
ClientSampleId :
PB168966TB

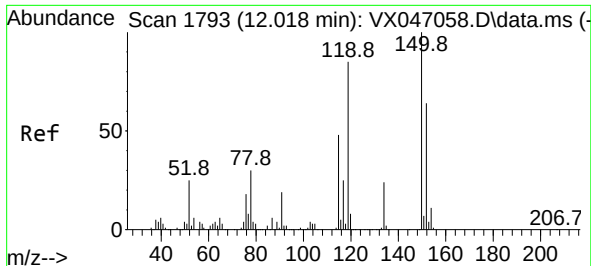
Tgt Ion: 95 Resp: 374821
Ion Ratio Lower Upper
95 100
174 72.7 0.0 144.6
176 69.7 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047098.D
Acq: 23 Jul 2025 17:36

Tgt Ion: 117 Resp: 802189
Ion Ratio Lower Upper
117 100
82 56.8 45.4 68.2
119 32.6 26.1 39.1

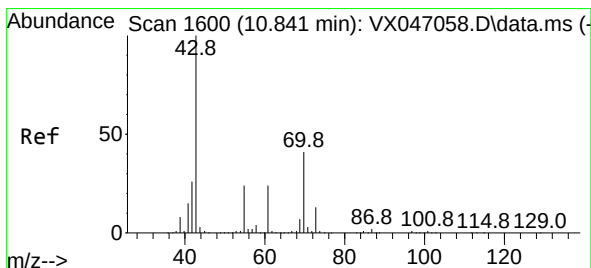
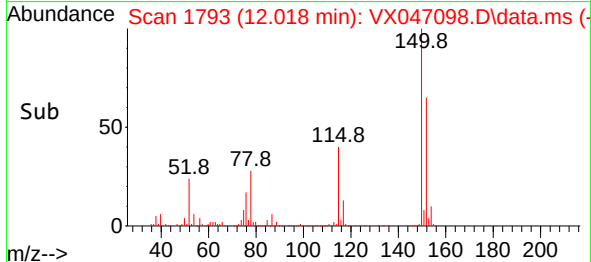
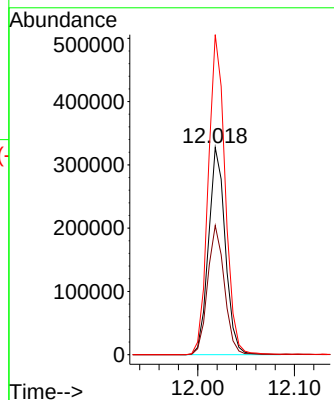
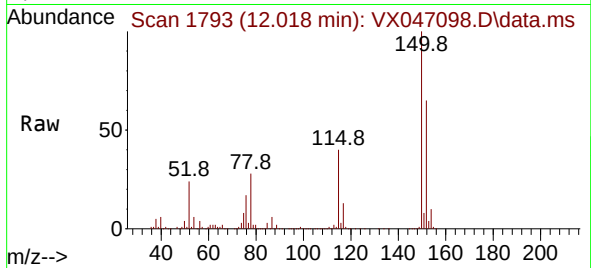




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047098.D
Acq: 23 Jul 2025 17:36

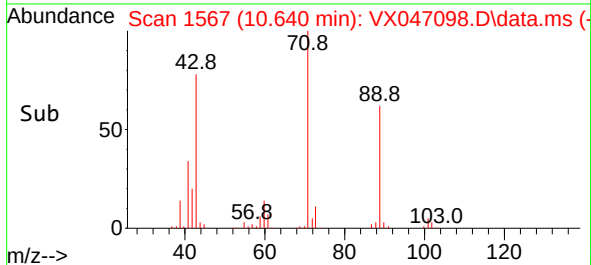
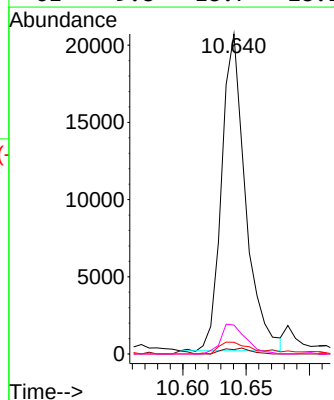
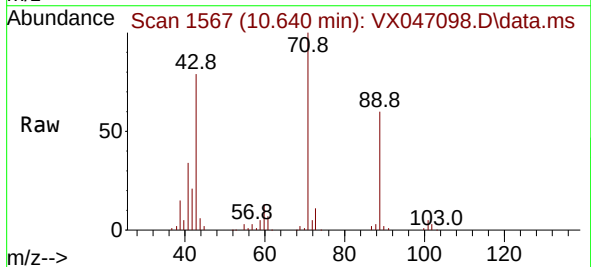
Instrument :
MSVOA_X
ClientSampleId :
PB168966TB

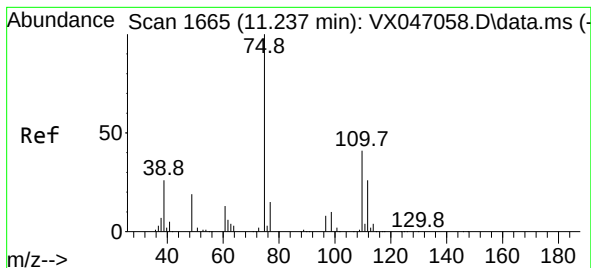
Tgt Ion:152 Resp: 393927
Ion Ratio Lower Upper
152 100
115 62.4 45.6 136.7
150 155.5 0.0 354.6



#74
N-ethyl acetate
Concen: 2.147 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.201 min
Lab File: VX047098.D
Acq: 23 Jul 2025 17:36

Tgt Ion: 43 Resp: 26928
Ion Ratio Lower Upper
43 100
70 2.1 32.3 48.5#
55 6.5 18.9 28.3#
61 9.8 18.7 28.1#





#76

1,2,3-Trichloropropane

Concen: 27.124 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX047098.D

Acq: 23 Jul 2025 17:36

Instrument :

MSVOA_X

ClientSampleId :

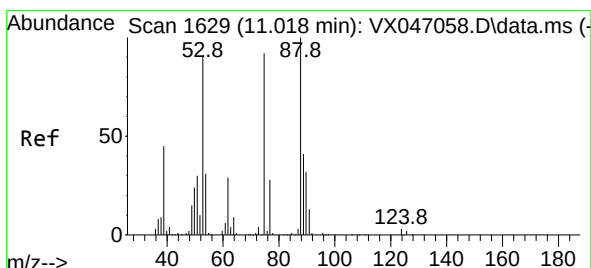
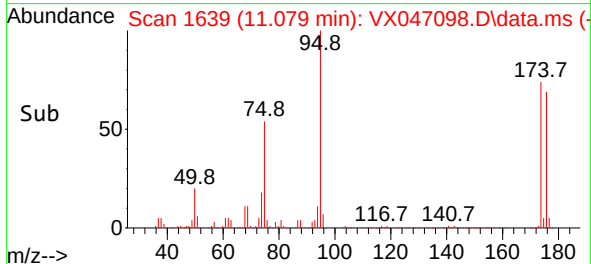
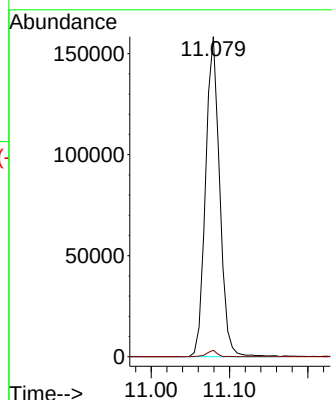
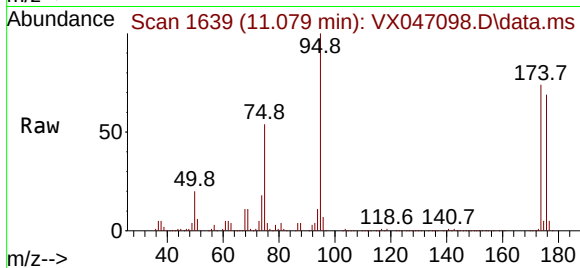
PB168966TB

Tgt Ion: 75 Resp: 197770

Ion Ratio Lower Upper

75 100

77 1.5 21.6 65.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.882 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX047098.D

Acq: 23 Jul 2025 17:36

Tgt Ion: 75 Resp: 197770

Ion Ratio Lower Upper

75 100

53 0.0 84.2 126.4#

89 0.0 36.0 54.0#

