

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
 Data File : VX046888.D
 Acq On : 03 Jul 2025 15:19
 Operator : JC/MD
 Sample : Q2465-02 100X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 62025-B

Quant Time: Jul 04 01:33:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	397492	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	690402	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	636957	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	330490	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	266803	50.807	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	101.620%
35) Dibromofluoromethane	5.397	113	224017	47.801	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.600%
50) Toluene-d8	8.653	98	816489	49.380	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	98.760%
62) 4-Bromofluorobenzene	11.079	95	318634	50.704	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	101.400%

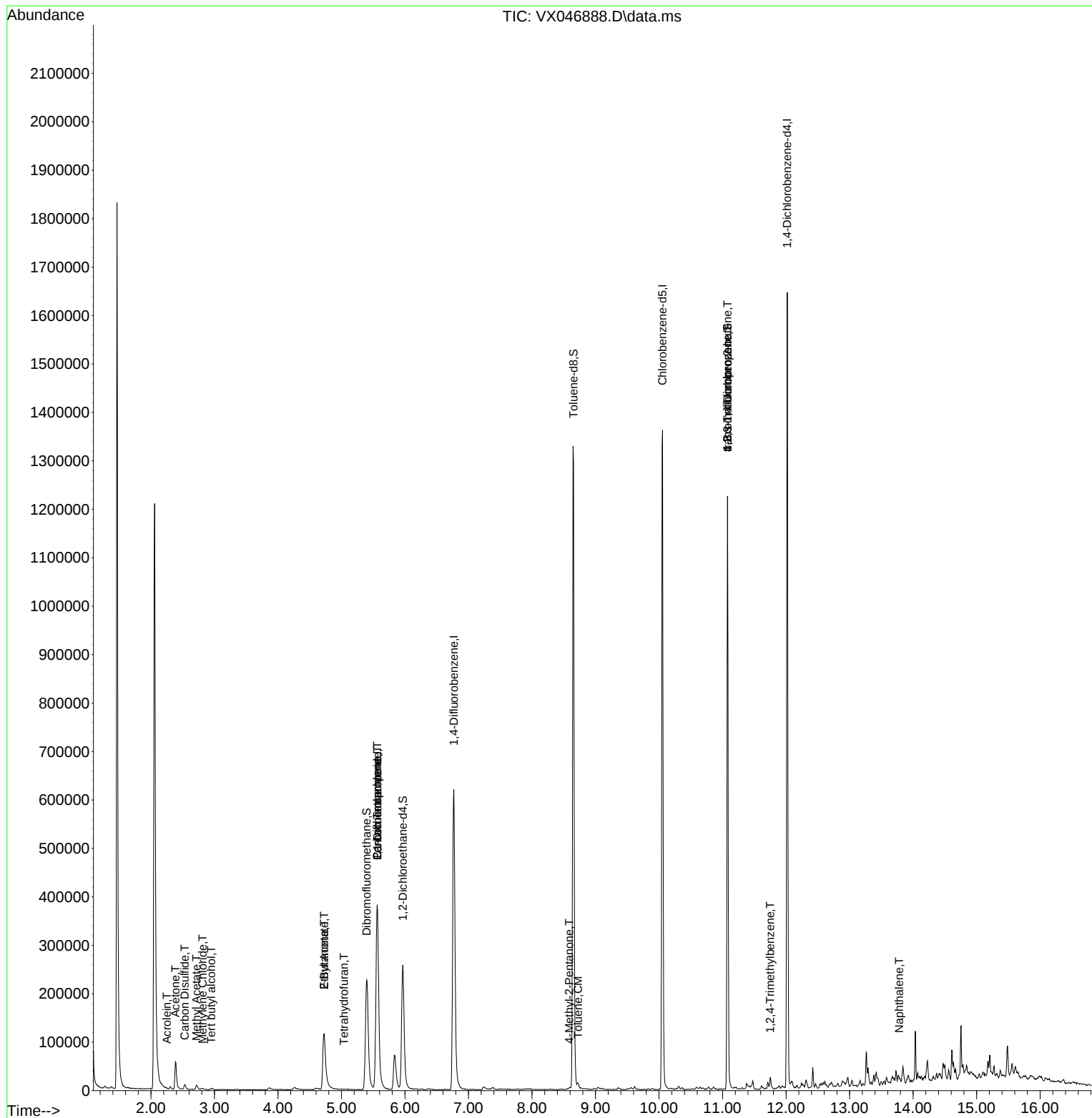
Target Compounds					Qvalue	
11) Tert butyl alcohol	2.947	59	895	2.599	ug/l #	84
13) Acrolein	2.252	56	161	3.253	ug/l #	52
16) Acetone	2.386	43	70971	43.510	ug/l	100
17) Carbon Disulfide	2.532	76	4965	0.439	ug/l	98
18) Methyl Acetate	2.715	43	13530	3.147	ug/l	92
20) Methylene Chloride	2.813	84	1236	0.256	ug/l #	83
25) 2-Butanone	4.727	43	231279	106.274	ug/l #	50
29) Tetrahydrofuran	5.038	42	343	0.247	ug/l #	34
36) 1,1-Dichloropropene	5.562	75	31065	4.913	ug/l #	50
37) Ethyl Acetate	4.727	43	236985	44.005	ug/l	97
38) Carbon Tetrachloride	5.562	117	40193	6.013	ug/l #	16
51) 4-Methyl-2-Pentanone	8.586	43	2972	0.610	ug/l #	61
52) Toluene	8.726	92	4576	0.386	ug/l	99
76) 1,2,3-Trichloropropane	11.079	75	163259	31.971	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	163259	85.793	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.750	105	11255	0.590	ug/l	95
95) Naphthalene	13.780	128	6564	0.350	ug/l #	91

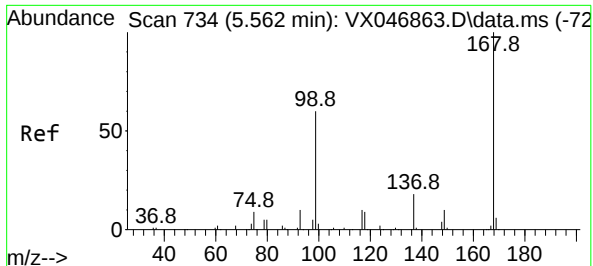
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jul 03 05:51:11 2025
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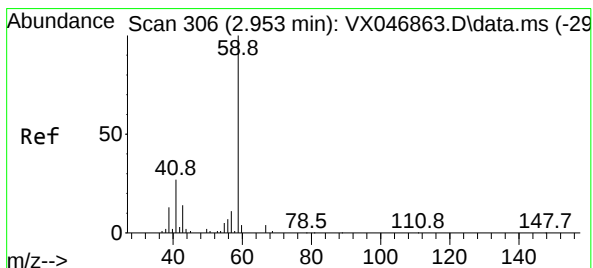
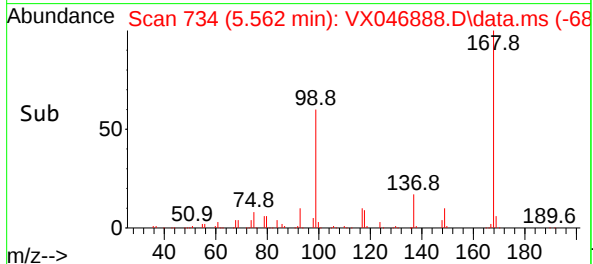
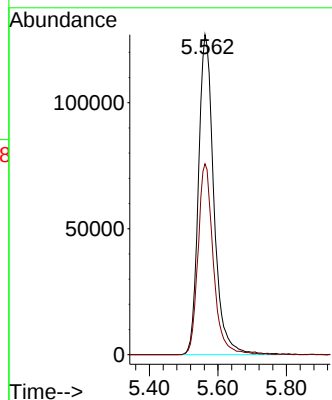
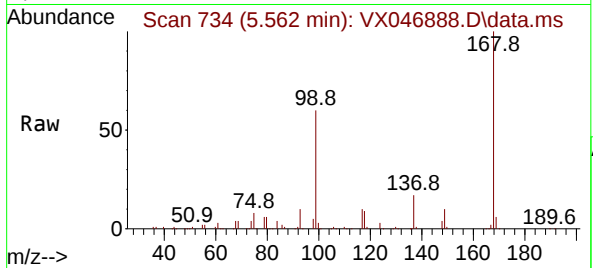




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX046888.D
Acq: 03 Jul 2025 15:19

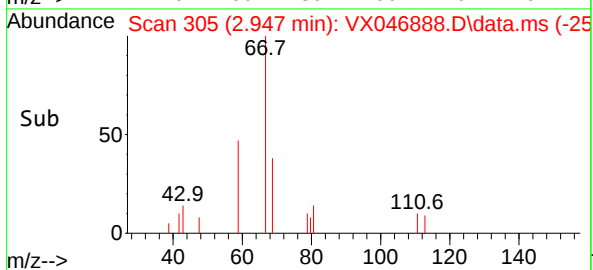
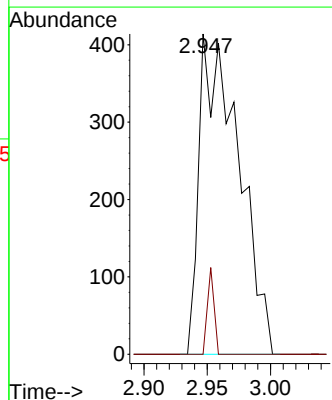
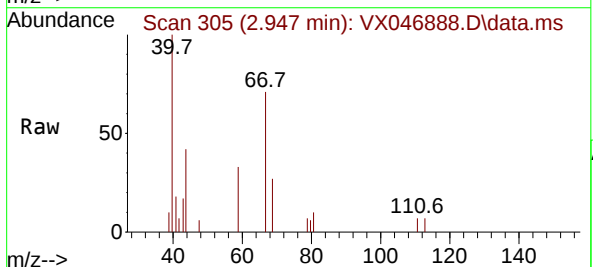
Instrument :
MSVOA_X
ClientSampleId :
62025-B

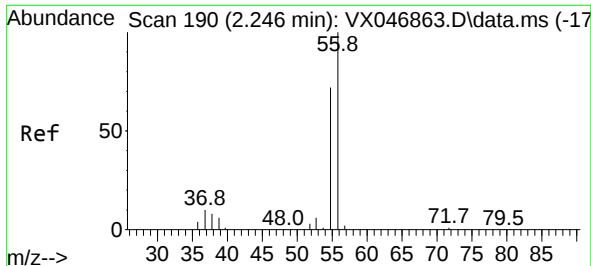
Tgt Ion:168 Resp: 397492
Ion Ratio Lower Upper
168 100
99 59.6 48.8 73.2



#11
Tert butyl alcohol
Concen: 2.599 ug/l
RT: 2.947 min Scan# 305
Delta R.T. -0.006 min
Lab File: VX046888.D
Acq: 03 Jul 2025 15:19

Tgt Ion: 59 Resp: 895
Ion Ratio Lower Upper
59 100
57 4.6 8.5 12.7#





#13

Acrolein

Concen: 3.253 ug/l

RT: 2.252 min Scan# 191

Delta R.T. 0.006 min

Lab File: VX046888.D

Acq: 03 Jul 2025 15:19

Instrument :

MSVOA_X

ClientSampleId :

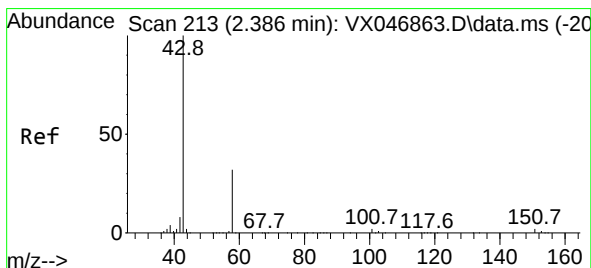
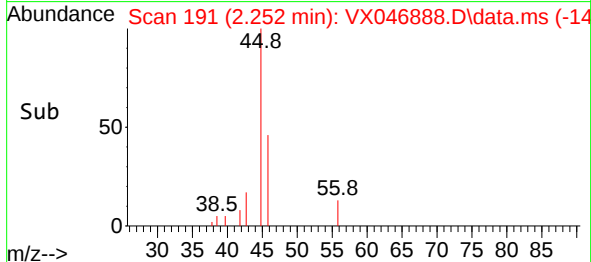
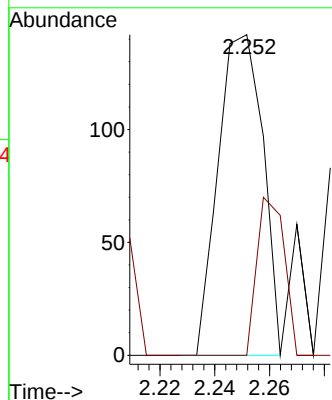
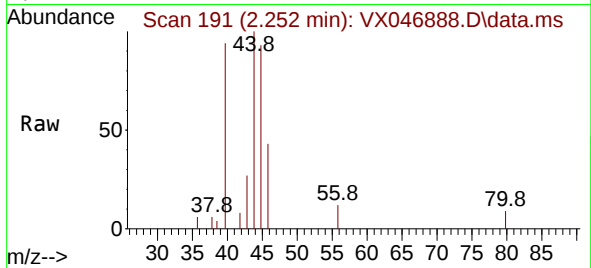
62025-B

Tgt Ion: 56 Resp: 161

Ion Ratio Lower Upper

56 100

55 29.8 55.5 83.3#



#16

Acetone

Concen: 43.510 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.000 min

Lab File: VX046888.D

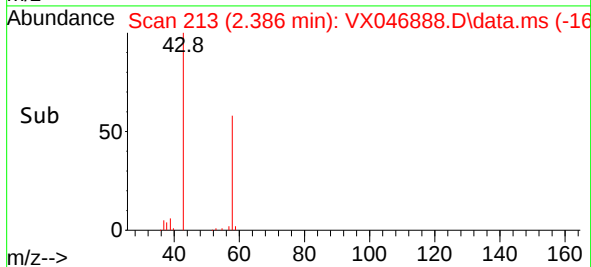
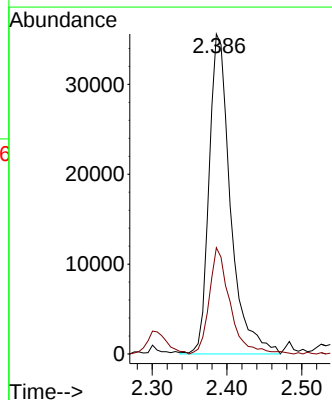
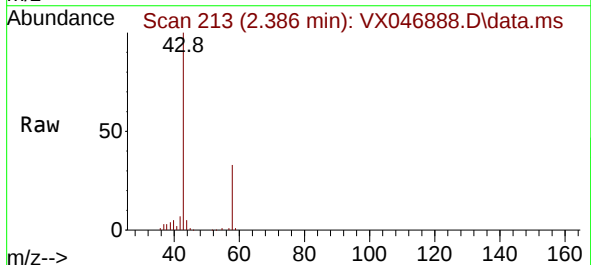
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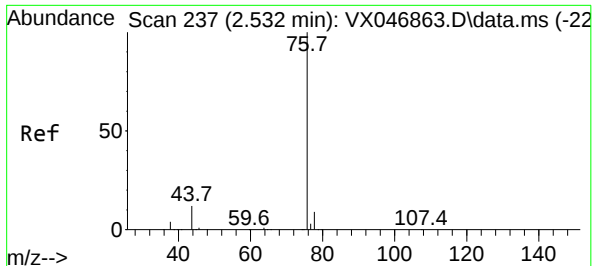
Tgt Ion: 43 Resp: 70971

Ion Ratio Lower Upper

43 100

58 32.5 25.8 38.6

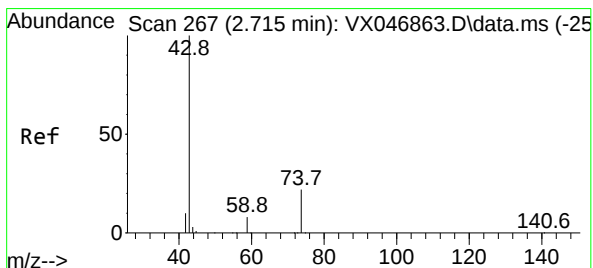
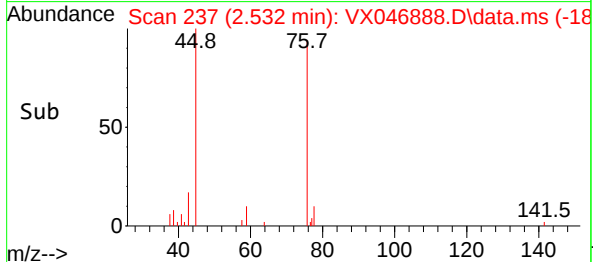
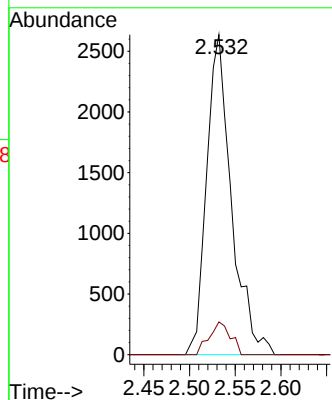
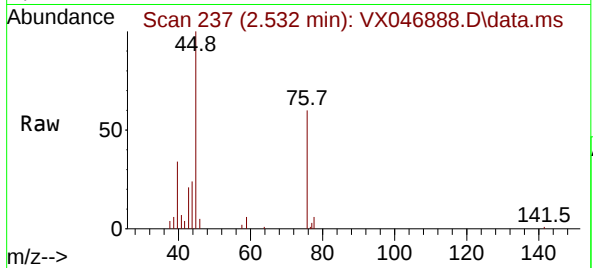




#17
Carbon Disulfide
Concen: 0.439 ug/l
RT: 2.532 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX046888.D
Acq: 03 Jul 2025 15:19

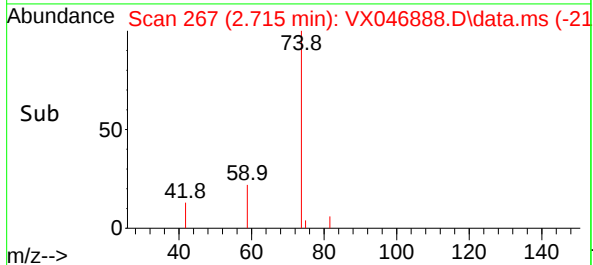
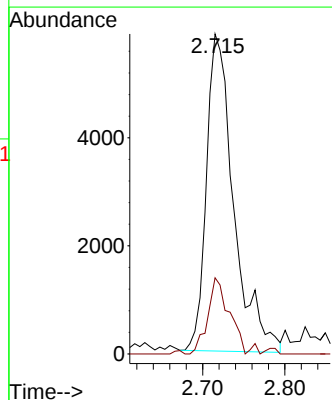
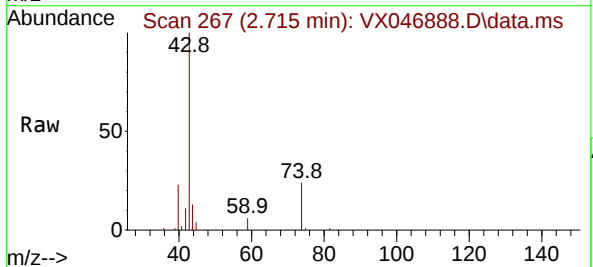
Instrument :
MSVOA_X
ClientSampleId :
62025-B

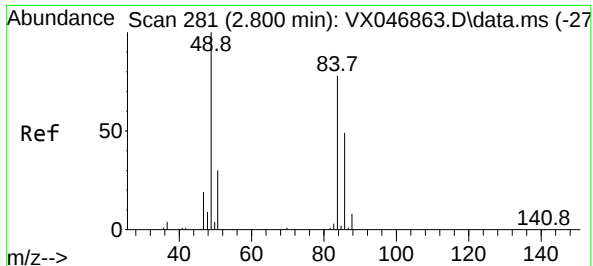
Tgt Ion: 76 Resp: 4965
Ion Ratio Lower Upper
76 100
78 10.0 7.4 11.2



#18
Methyl Acetate
Concen: 3.147 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX046888.D
Acq: 03 Jul 2025 15:19

Tgt Ion: 43 Resp: 13530
Ion Ratio Lower Upper
43 100
74 19.0 18.3 27.5

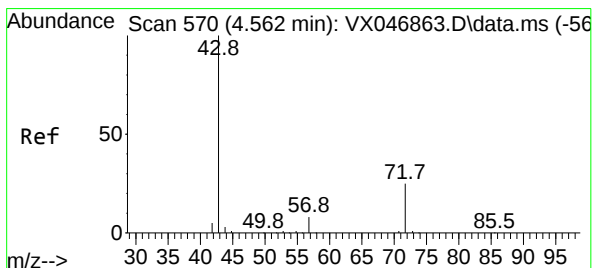
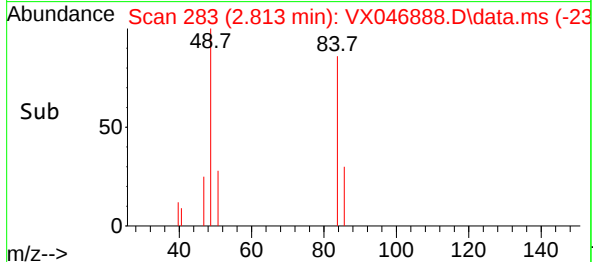
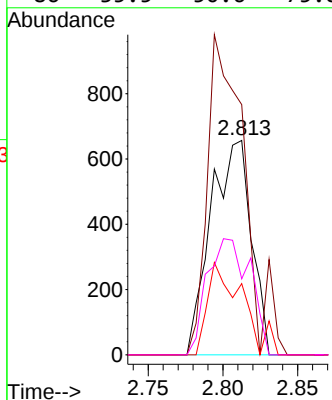
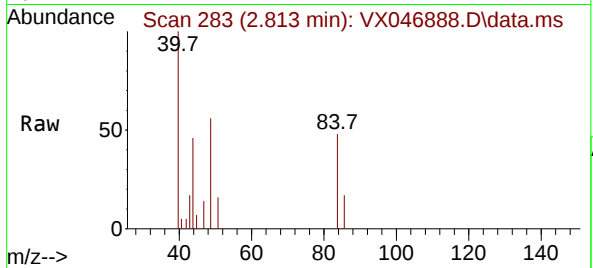




#20
Methylene Chloride
Concen: 0.256 ug/l
RT: 2.813 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX046888.D
Acq: 03 Jul 2025 15:19

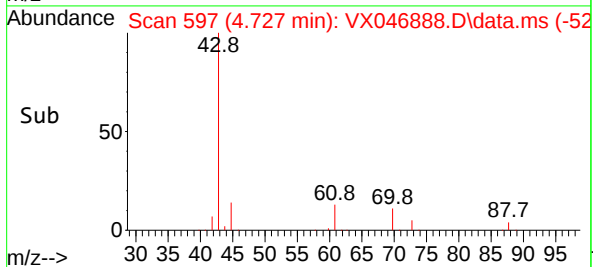
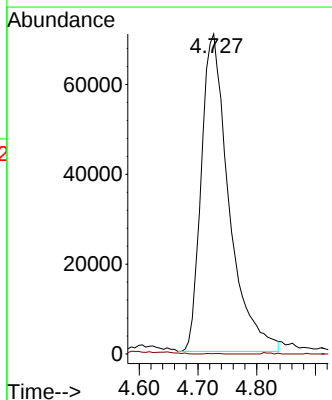
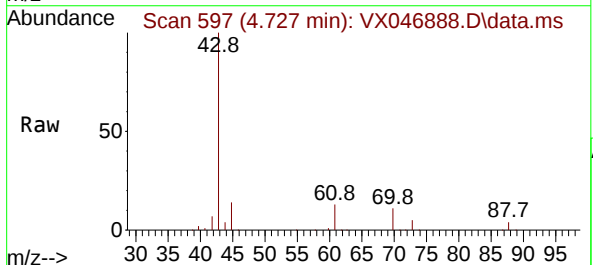
Instrument :
MSVOA_X
ClientSampleId :
62025-B

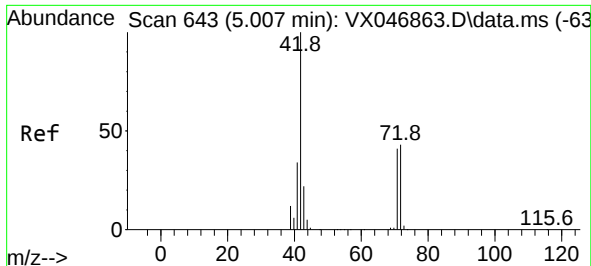
Tgt Ion: 84 Resp: 1236
Ion Ratio Lower Upper
84 100
49 116.7 102.8 154.2
51 33.2 31.1 46.7
86 35.5 50.6 75.8#



#25
2-Butanone
Concen: 106.274 ug/l
RT: 4.727 min Scan# 597
Delta R.T. 0.165 min
Lab File: VX046888.D
Acq: 03 Jul 2025 15:19

Tgt Ion: 43 Resp: 231279
Ion Ratio Lower Upper
43 100
72 0.0 20.0 30.0#





#29

Tetrahydrofuran

Concen: 0.247 ug/l

RT: 5.038 min Scan# 64

Delta R.T. 0.030 min

Lab File: VX046888.D

Acq: 03 Jul 2025 15:19

Instrument :

MSVOA_X

ClientSampleId :

62025-B

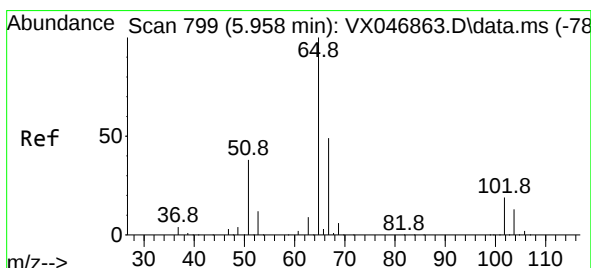
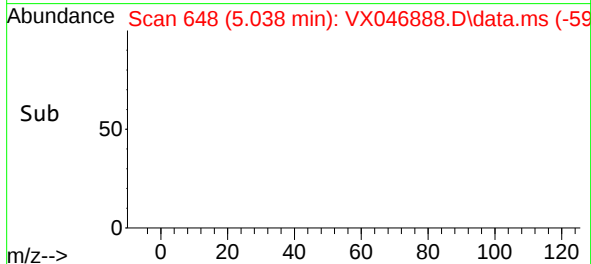
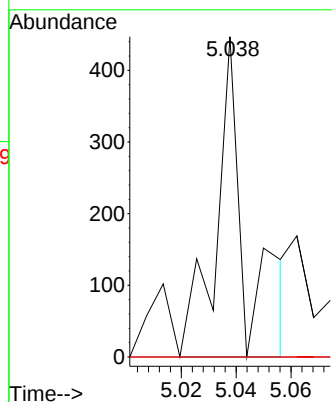
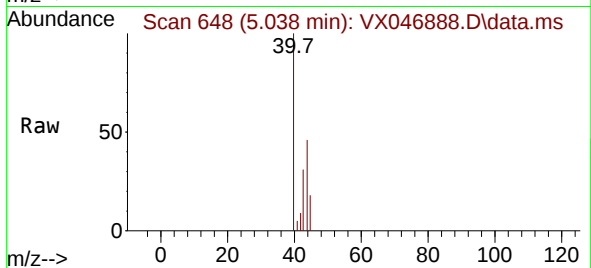
Tgt Ion: 42 Resp: 343

Ion Ratio Lower Upper

42 100

72 0.0 35.1 52.7#

71 0.0 31.9 47.9#



#33

1,2-Dichloroethane-d4

Concen: 50.807 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.006 min

Lab File: VX046888.D

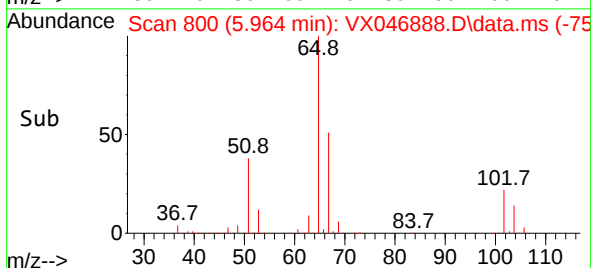
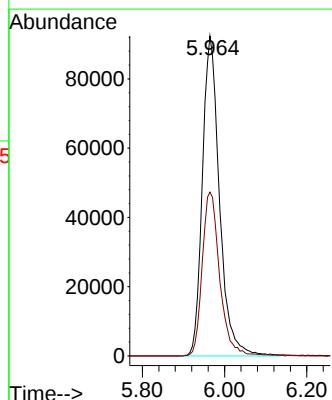
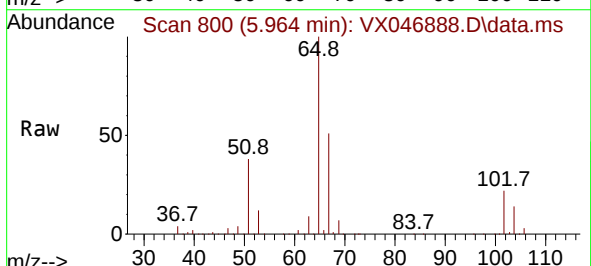
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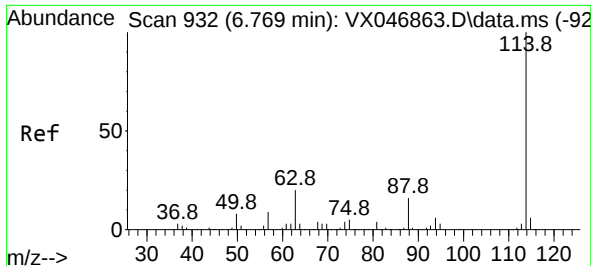
Tgt Ion: 65 Resp: 266803

Ion Ratio Lower Upper

65 100

67 52.4 0.0 105.2

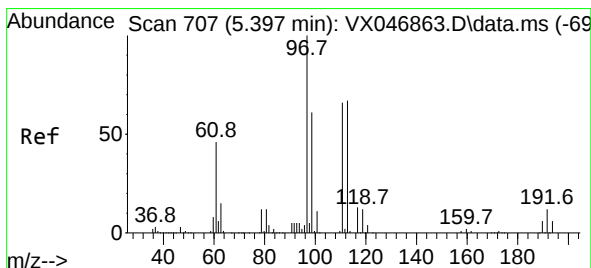
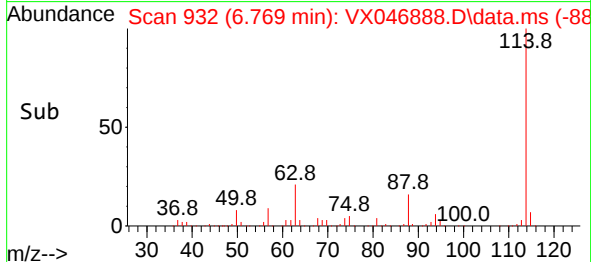
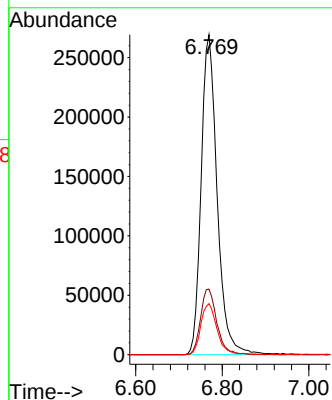
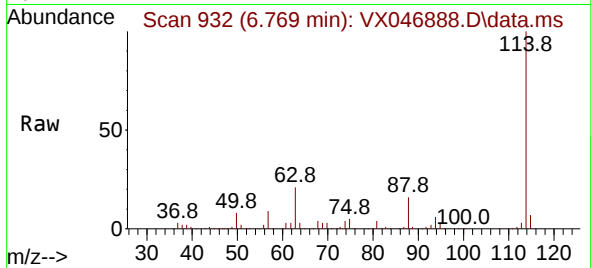




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX046888.D
Acq: 03 Jul 2025 15:19

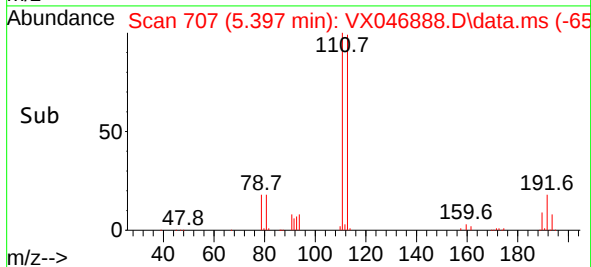
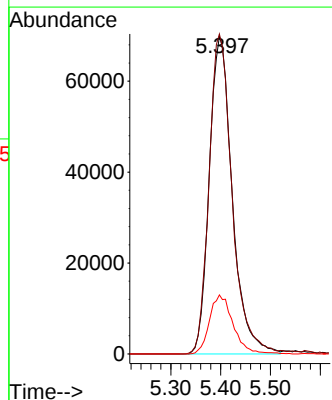
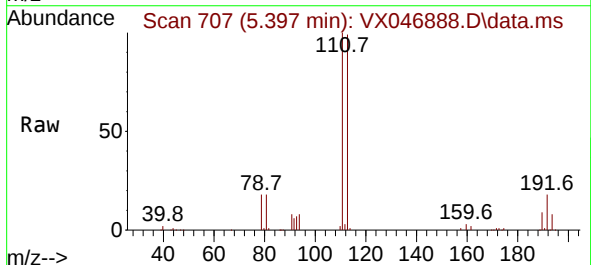
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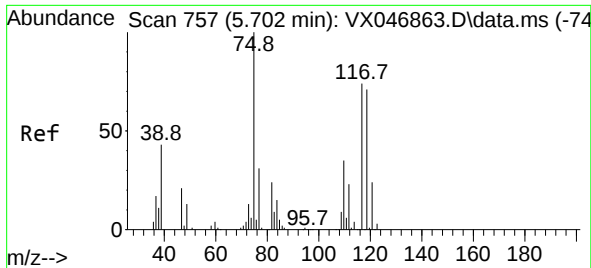
Tgt Ion:114 Resp: 690402
Ion Ratio Lower Upper
114 100
63 20.5 0.0 40.4
88 16.0 0.0 31.0



#35
Dibromofluoromethane
Concen: 47.801 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX046888.D
Acq: 03 Jul 2025 15:19

Tgt Ion:113 Resp: 224017
Ion Ratio Lower Upper
113 100
111 101.0 81.2 121.8
192 19.1 15.3 22.9

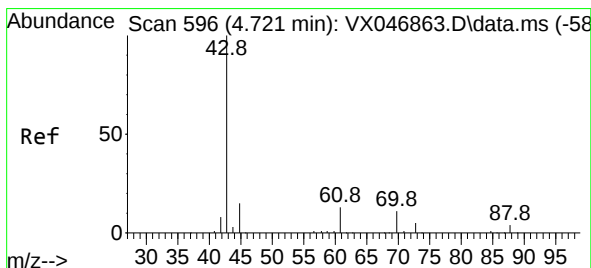
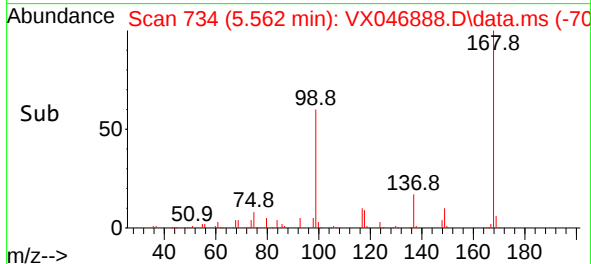
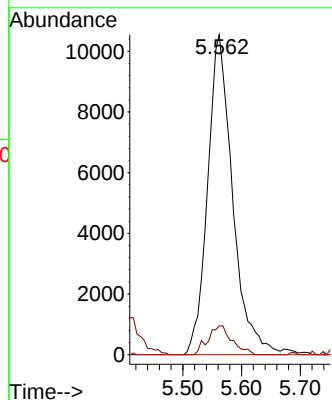
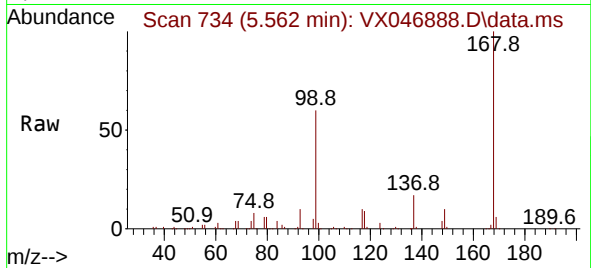




#36
1,1-Dichloropropene
Concen: 4.913 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.140 min
Lab File: VX046888.D
Acq: 03 Jul 2025 15:19

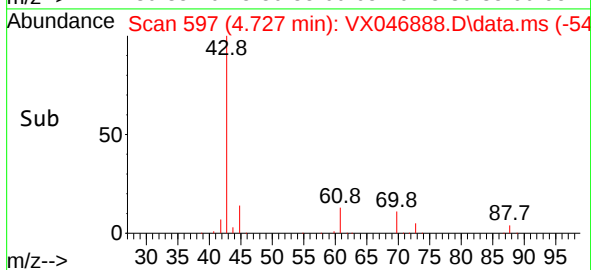
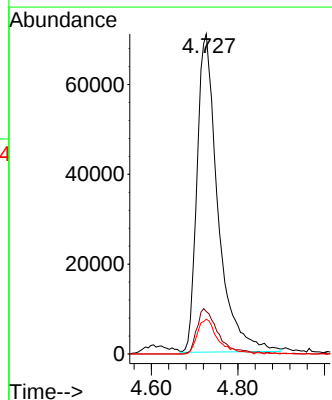
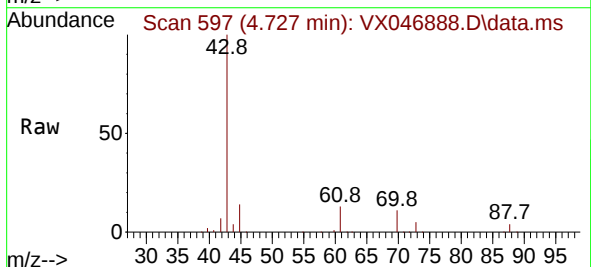
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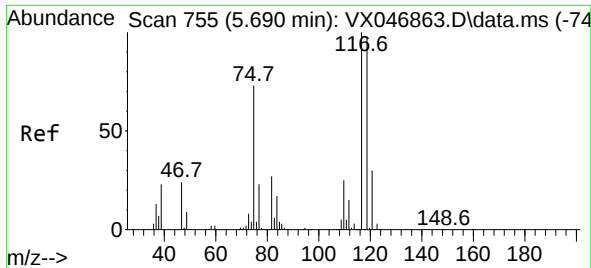
Tgt Ion: 75 Resp: 31065
Ion Ratio Lower Upper
75 100
110 8.7 17.3 51.9#
77 0.0 24.2 36.4#



#37
Ethyl Acetate
Concen: 44.005 ug/l
RT: 4.727 min Scan# 597
Delta R.T. 0.006 min
Lab File: VX046888.D
Acq: 03 Jul 2025 15:19

Tgt Ion: 43 Resp: 236985
Ion Ratio Lower Upper
43 100
61 14.3 9.7 14.5
70 10.7 8.3 12.5

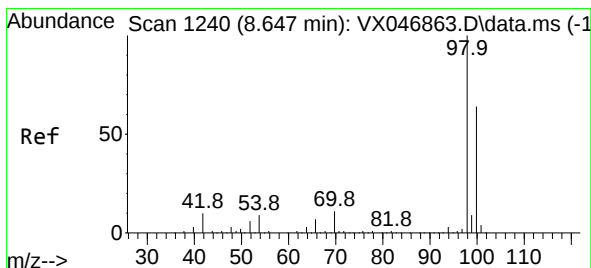
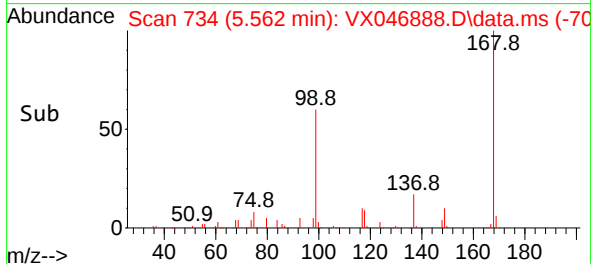
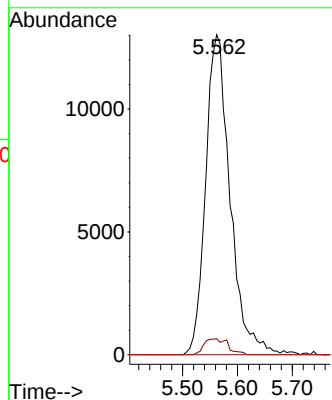
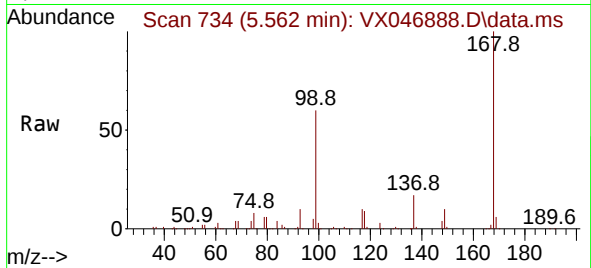




#38
Carbon Tetrachloride
Concen: 6.013 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX046888.D
Acq: 03 Jul 2025 15:19

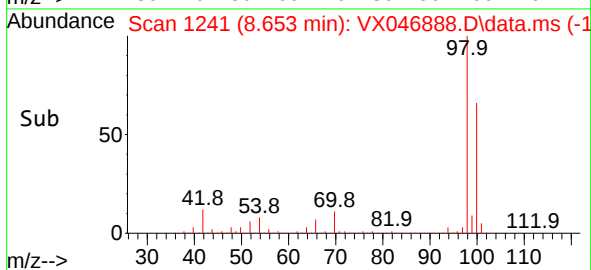
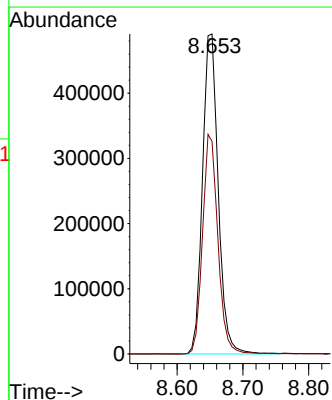
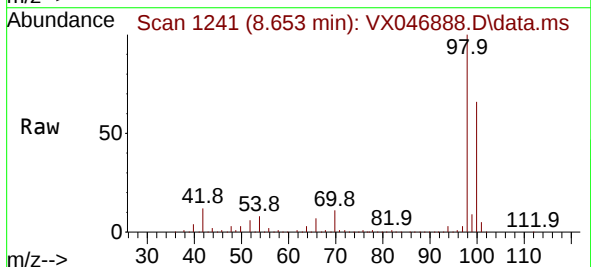
Instrument :
MSVOA_X
ClientSampleId :
62025-B

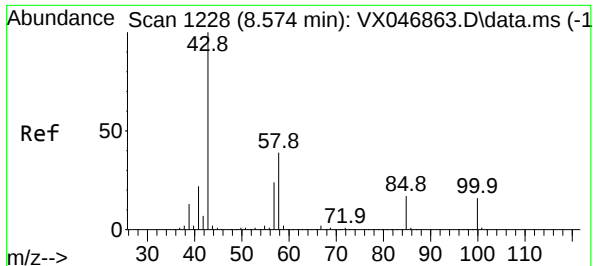
Tgt Ion:117 Resp: 40193
Ion Ratio Lower Upper
117 100
119 5.0 76.6 114.8#
121 0.0 24.1 36.1#



#50
Toluene-d8
Concen: 49.380 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.006 min
Lab File: VX046888.D
Acq: 03 Jul 2025 15:19

Tgt Ion: 98 Resp: 816489
Ion Ratio Lower Upper
98 100
100 67.1 53.0 79.6

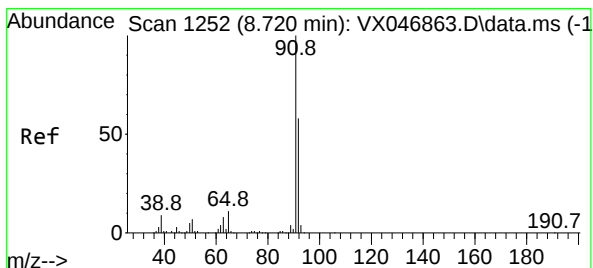
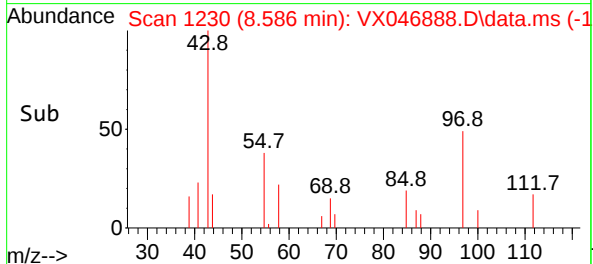
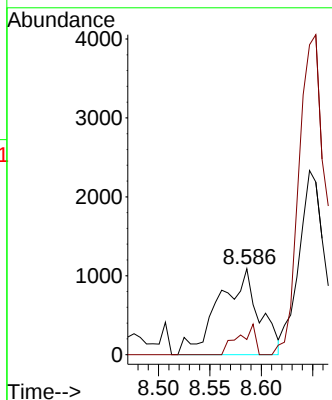
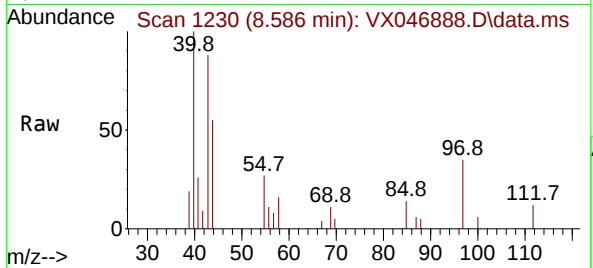




#51
4-Methyl-2-Pentanone
Concen: 0.610 ug/l
RT: 8.586 min Scan# 11
Delta R.T. 0.012 min
Lab File: VX046888.D
Acq: 03 Jul 2025 15:19

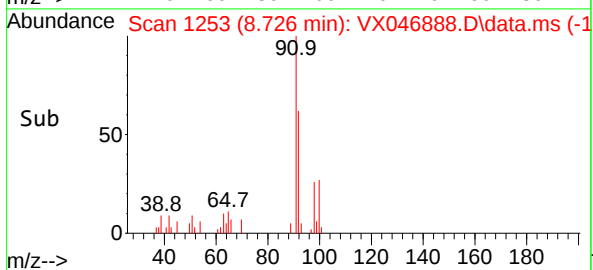
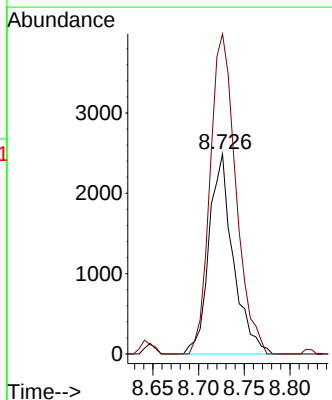
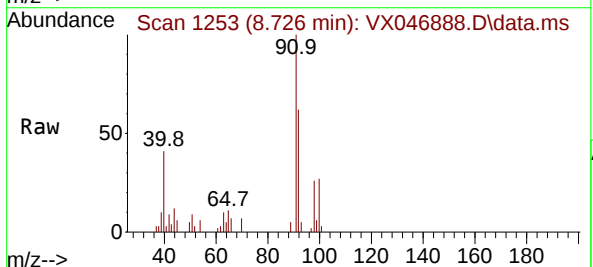
Instrument :
MSVOA_X
ClientSampleId :
62025-B

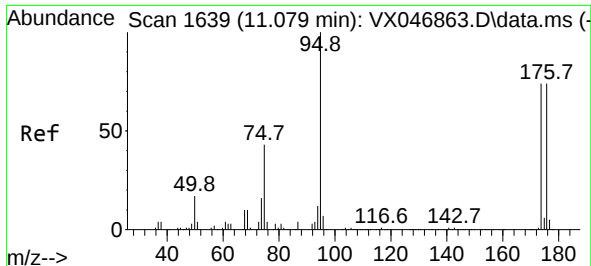
Tgt Ion: 43 Resp: 2972
Ion Ratio Lower Upper
43 100
58 14.7 30.4 45.6#



#52
Toluene
Concen: 0.386 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.006 min
Lab File: VX046888.D
Acq: 03 Jul 2025 15:19

Tgt Ion: 92 Resp: 4576
Ion Ratio Lower Upper
92 100
91 171.0 137.9 206.9

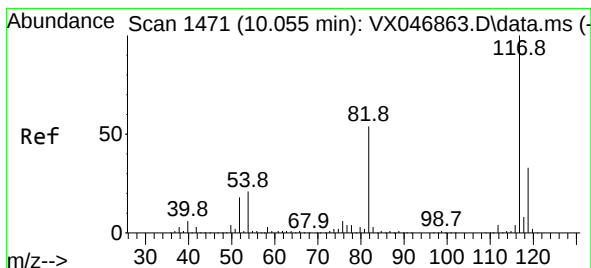
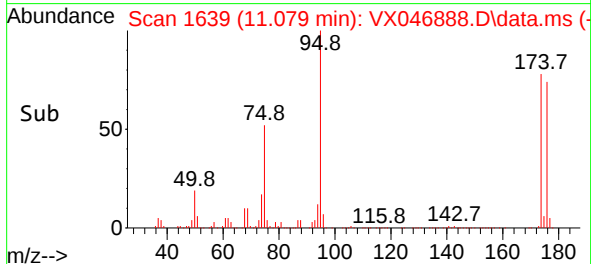
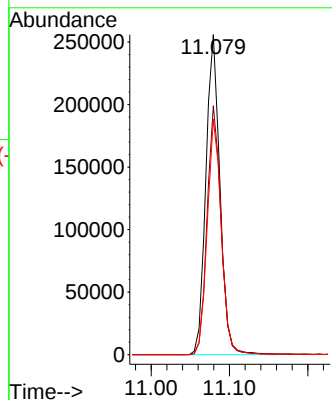
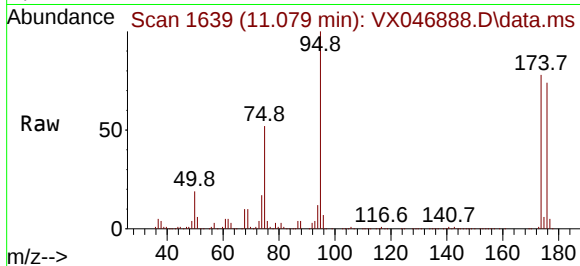




#62
4-Bromofluorobenzene
Concen: 50.704 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046888.D
Acq: 03 Jul 2025 15:19

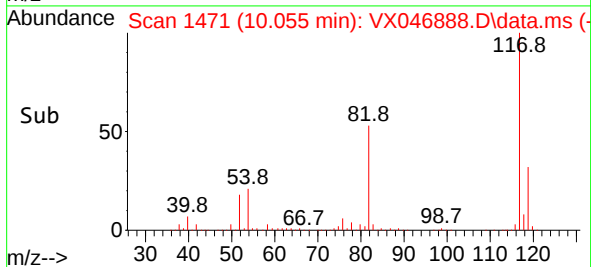
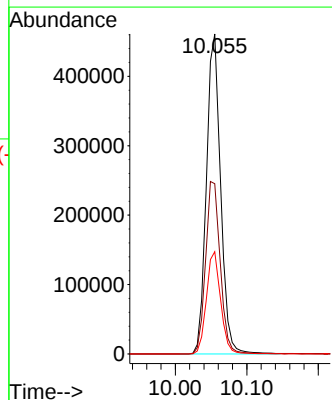
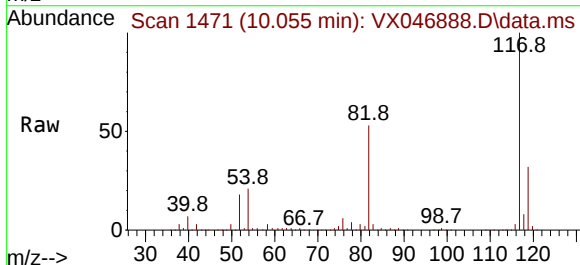
Instrument :
MSVOA_X
ClientSampleId :
62025-B

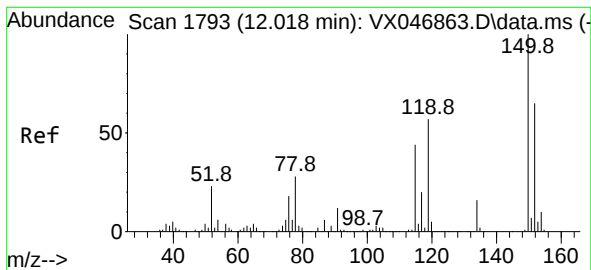
Tgt Ion: 95 Resp: 318634
Ion Ratio Lower Upper
95 100
174 77.3 0.0 152.0
176 73.7 0.0 145.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046888.D
Acq: 03 Jul 2025 15:19

Tgt Ion: 117 Resp: 636957
Ion Ratio Lower Upper
117 100
82 53.2 43.3 64.9
119 31.9 26.4 39.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046888.D

Acq: 03 Jul 2025 15:19

Instrument :

MSVOA_X

ClientSampleId :

62025-B

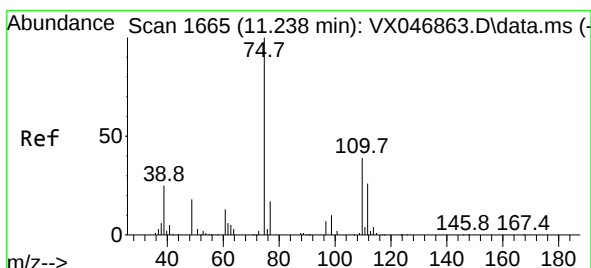
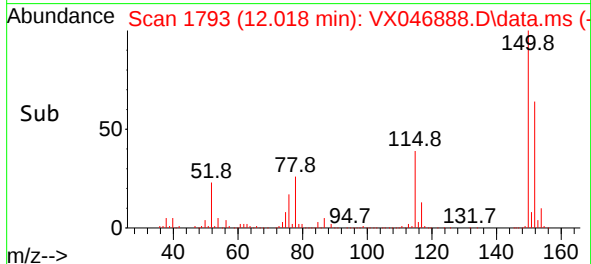
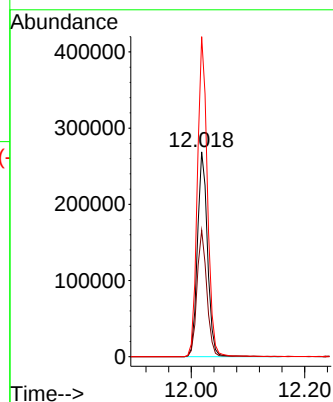
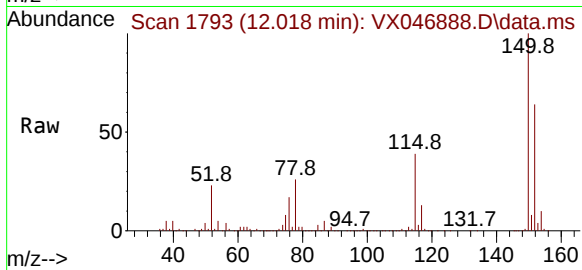
Tgt Ion:152 Resp: 330490

Ion Ratio Lower Upper

152 100

115 60.2 42.4 127.1

150 156.0 0.0 349.2



#76

1,2,3-Trichloropropane

Concen: 31.971 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX046888.D

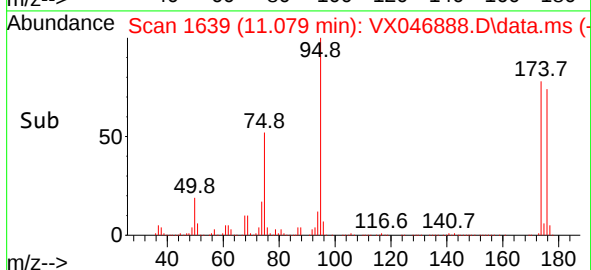
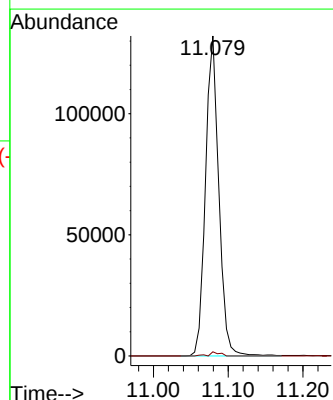
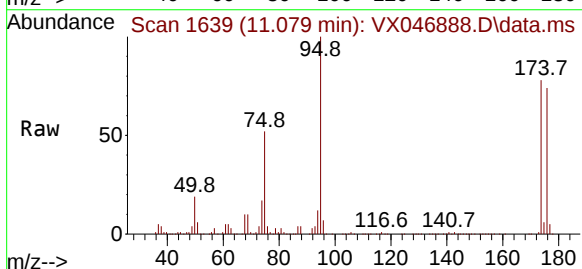
Acq: 03 Jul 2025 15:19

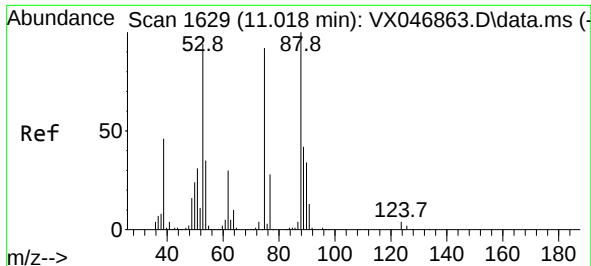
Tgt Ion: 75 Resp: 163259

Ion Ratio Lower Upper

75 100

77 1.0 20.6 61.8#

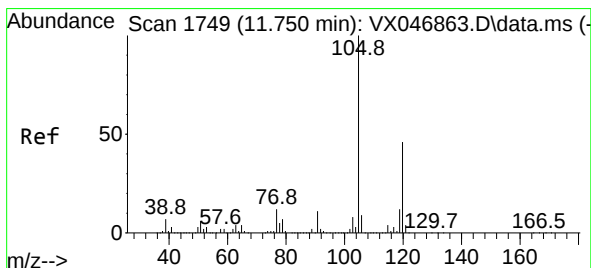
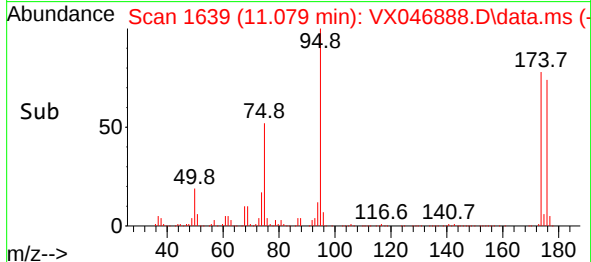
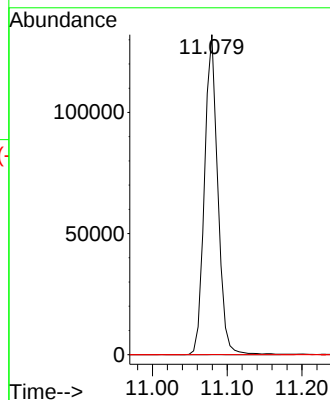
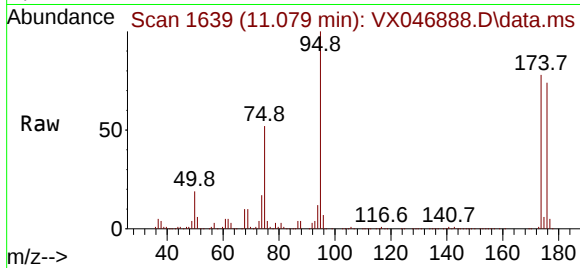




#81
trans-1,4-Dichloro-2-butene
Concen: 85.793 ug/l
RT: 11.079 min Scan# 1629
Delta R.T. 0.061 min
Lab File: VX046888.D
Acq: 03 Jul 2025 15:19

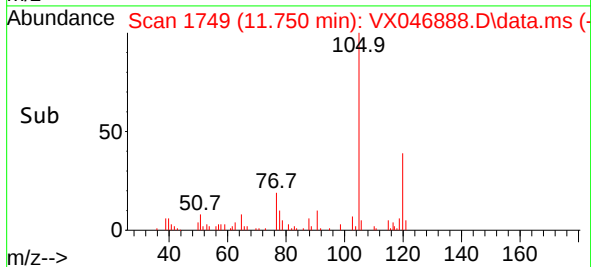
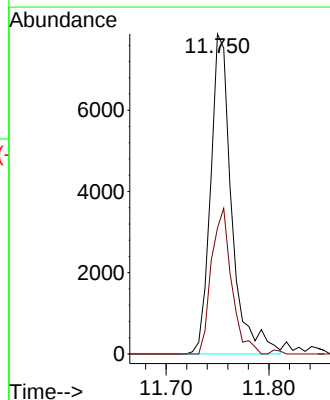
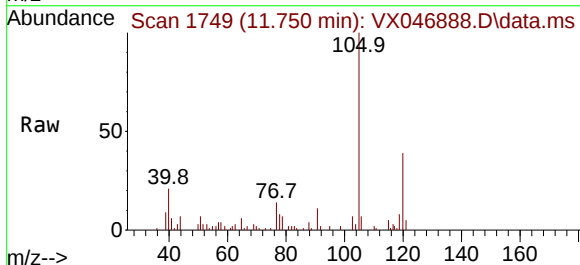
Instrument :
MSVOA_X
ClientSampleId :
62025-B

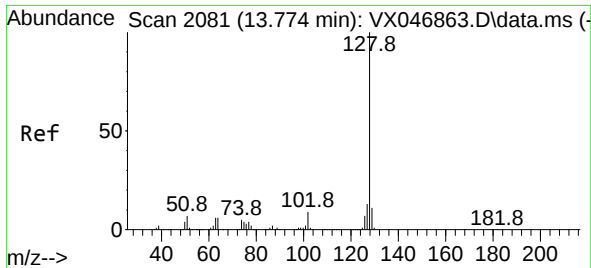
Tgt Ion: 75 Resp: 163259
Ion Ratio Lower Upper
75 100
53 0.0 83.7 125.5#
89 0.0 38.2 57.2#



#84
1,2,4-Trimethylbenzene
Concen: 0.590 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046888.D
Acq: 03 Jul 2025 15:19

Tgt Ion: 105 Resp: 11255
Ion Ratio Lower Upper
105 100
120 43.4 23.3 69.8





#95

Naphthalene

Concen: 0.350 ug/l

RT: 13.780 min Scan# 20

Delta R.T. 0.006 min

Lab File: VX046888.D

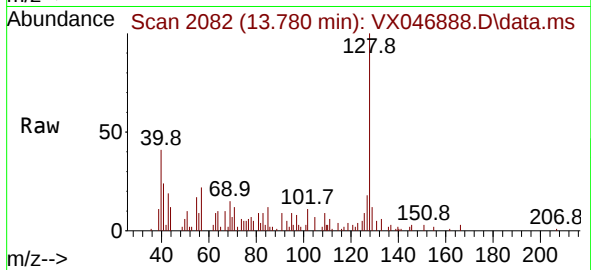
Acq: 03 Jul 2025 15:19

Instrument :

MSVOA_X

ClientSampleId :

62025-B



Tgt Ion:128 Resp: 6564

Ion Ratio Lower Upper

128 100

127 15.6 10.2 15.4#

129 15.0 8.6 13.0#

