

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111325\
 Data File : VX048594.D
 Acq On : 13 Nov 2025 14:43
 Operator : JC/MD
 Sample : Q3609-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 AU-713-COMP-03

Quant Time: Nov 14 03:58:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X110725W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 08 05:08:11 2025
 Response via : Initial Calibration

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

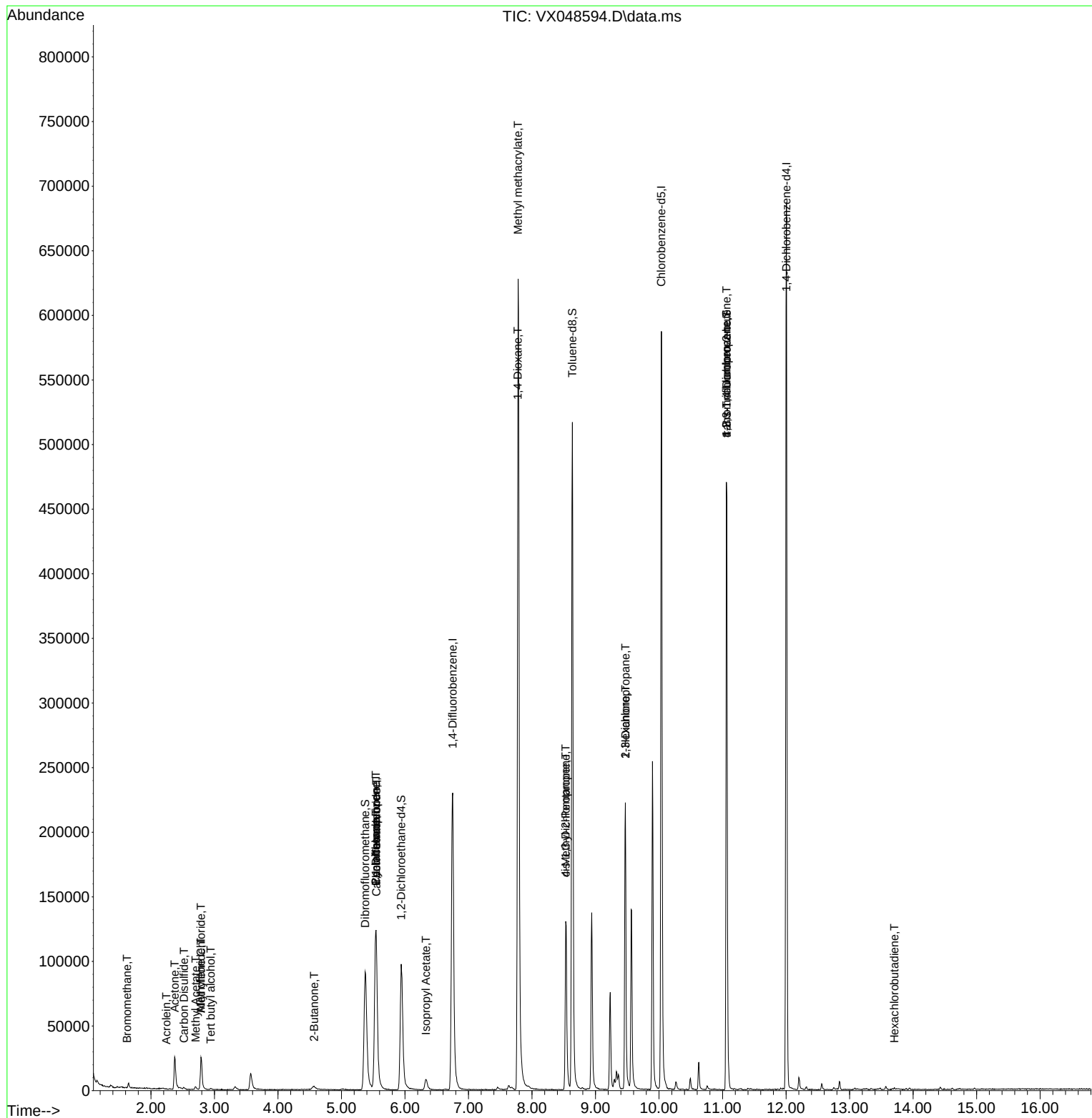
Internal Standards						
1) Pentafluorobenzene	5.543	168	128824	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.750	114	258100	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.036	117	278287	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	144149	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	105688	58.877	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 117.760%#			
35) Dibromofluoromethane	5.373	113	88995	45.558	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.120%			
50) Toluene-d8	8.634	98	323053	53.024	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.040%			
62) 4-Bromofluorobenzene	11.061	95	132987	58.572	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 117.140%			
Target Compounds						Qvalue
5) Bromomethane	1.623	94	231	0.233	ug/l #	62
11) Tert butyl alcohol	2.940	59	568	1.670	ug/l #	71
13) Acrolein	2.239	56	50	1.016	ug/l #	1
14) Allyl chloride	2.788	41	588	0.211	ug/l #	27
16) Acetone	2.373	43	34796	40.951	ug/l	93
17) Carbon Disulfide	2.519	76	1053	0.250	ug/l #	75
18) Methyl Acetate	2.702	43	3505	1.501	ug/l	92
20) Methylene Chloride	2.788	84	13222	7.569	ug/l	93
25) 2-Butanone	4.568	43	5149	4.096	ug/l	95
31) Cyclohexane	5.543	56	3040	1.261	ug/l #	21
36) 1,1-Dichloropropene	5.543	75	10273	3.927	ug/l #	50
38) Carbon Tetrachloride	5.549	117	13735	4.613	ug/l #	17
43) Isopropyl Acetate	6.330	43	13031	2.518	ug/l	98
48) Methyl methacrylate	7.781	41	61646	26.793	ug/l #	42
49) 1,4-Dioxane	7.775	88	38	1.084	ug/l #	1
51) 4-Methyl-2-Pentanone	8.531	43	54194	18.394	ug/l #	47
54) cis-1,3-Dichloropropene	8.531	75	22598	7.808	ug/l #	68
57) 1,3-Dichloropropane	9.469	76	2035	0.685	ug/l #	42
59) 2-Hexanone	9.469	43	29299	13.369	ug/l #	52
76) 1,2,3-Trichloropropane	11.061	75	70448	20.286	ug/l #	30
81) trans-1,4-Dichloro-2-b...	11.061	75	70448	58.024	ug/l #	12
94) Hexachlorobutadiene	13.707	225	330	0.244	ug/l	84

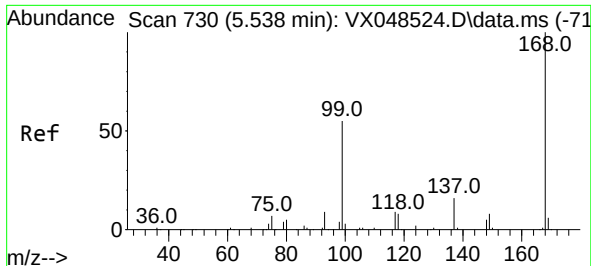
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Nov 08 05:08:11 2025
Response via : Initial Calibration

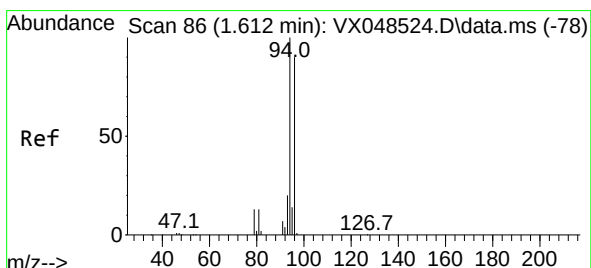
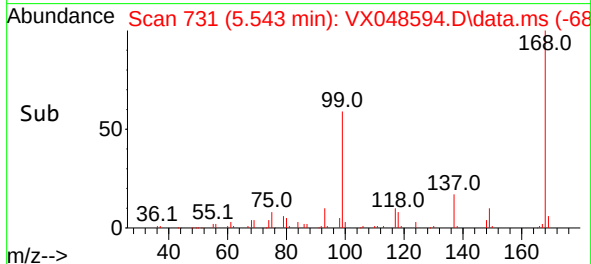
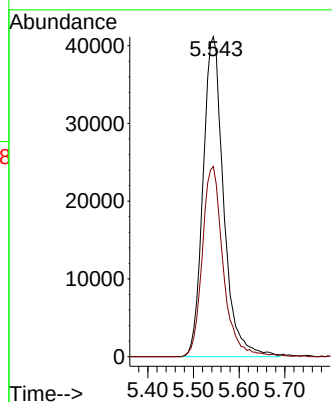
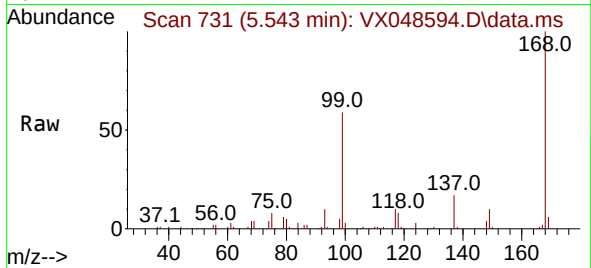




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 71
Delta R.T. 0.005 min
Lab File: VX048594.D
Acq: 13 Nov 2025 14:43

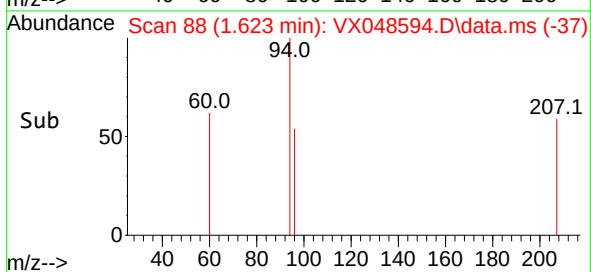
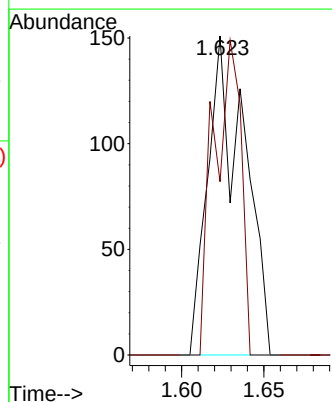
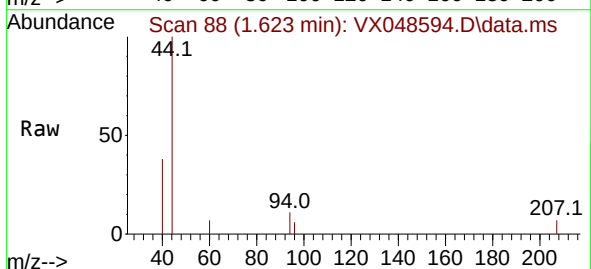
Instrument :
MSVOA_X
ClientSampleId :
AU-713-COMP-03

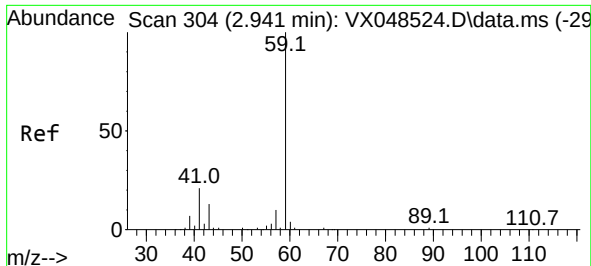
Tgt Ion:168 Resp: 128824
Ion Ratio Lower Upper
168 100
99 59.4 45.2 67.8



#5
Bromomethane
Concen: 0.233 ug/l
RT: 1.623 min Scan# 88
Delta R.T. 0.012 min
Lab File: VX048594.D
Acq: 13 Nov 2025 14:43

Tgt Ion: 94 Resp: 231
Ion Ratio Lower Upper
94 100
96 54.3 72.3 108.5#

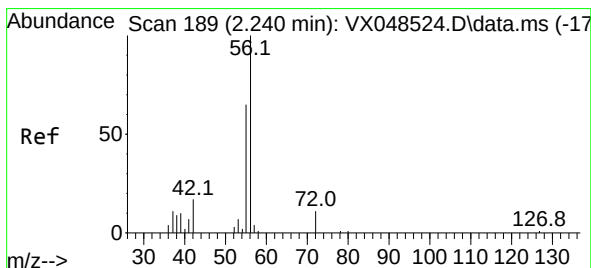
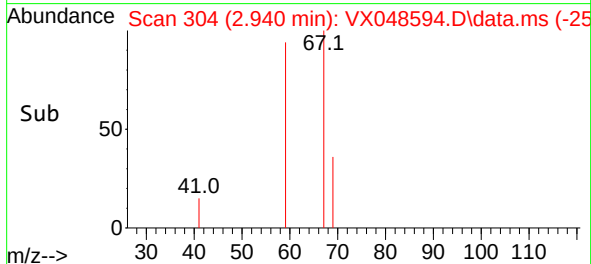
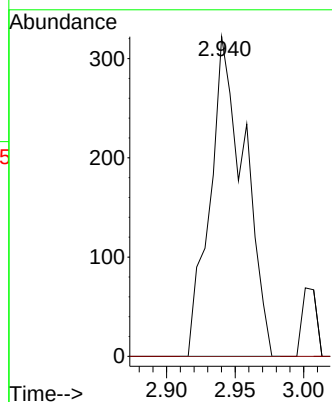
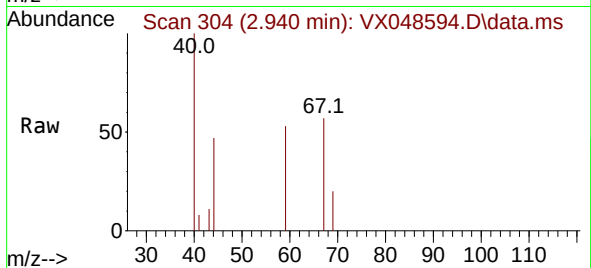




#11
Tert butyl alcohol
Concen: 1.670 ug/l
RT: 2.940 min Scan# 304
Delta R.T. -0.000 min
Lab File: VX048594.D
Acq: 13 Nov 2025 14:43

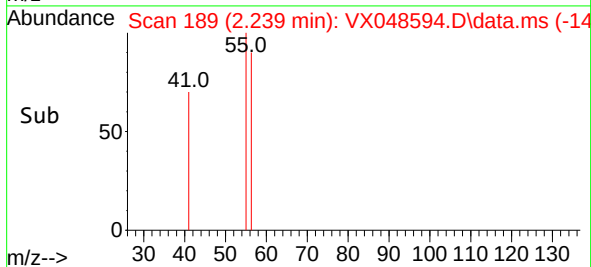
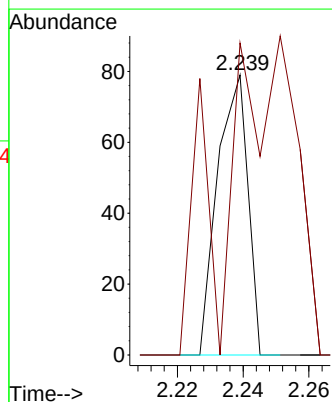
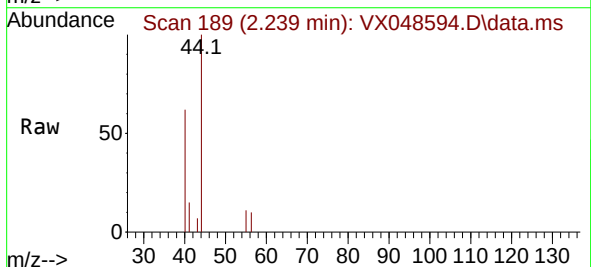
Instrument :
MSVOA_X
ClientSampleId :
AU-713-COMP-03

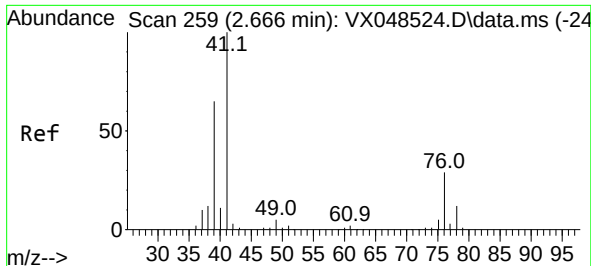
Tgt Ion: 59 Resp: 568
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#13
Acrolein
Concen: 1.016 ug/l
RT: 2.239 min Scan# 189
Delta R.T. -0.000 min
Lab File: VX048594.D
Acq: 13 Nov 2025 14:43

Tgt Ion: 56 Resp: 50
Ion Ratio Lower Upper
56 100
55 270.0 54.9 82.3#

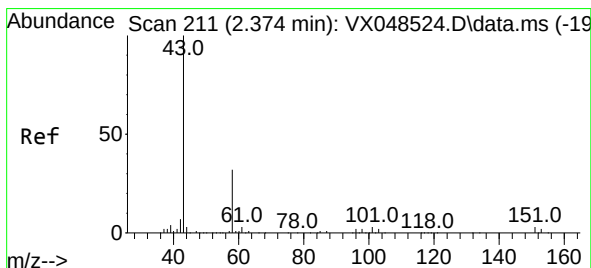
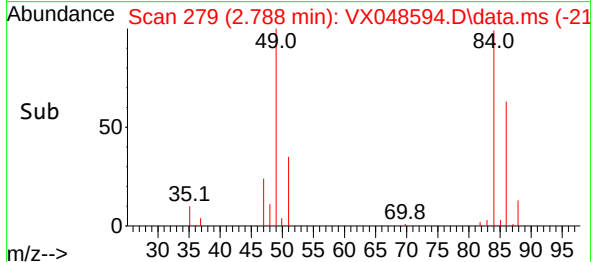
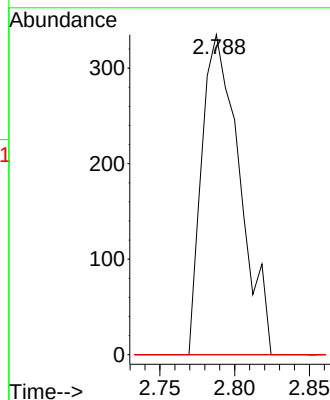
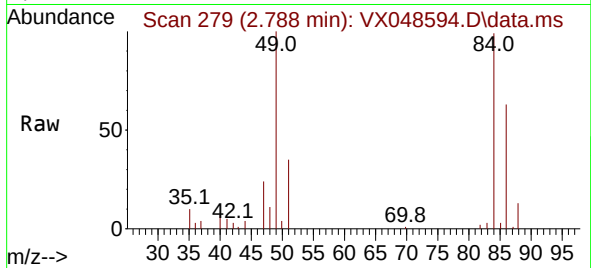




#14
 Allyl chloride
 Concen: 0.211 ug/l
 RT: 2.788 min Scan# 211
 Delta R.T. 0.121 min
 Lab File: VX048594.D
 Acq: 13 Nov 2025 14:43

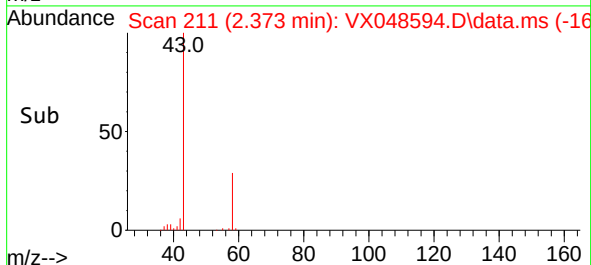
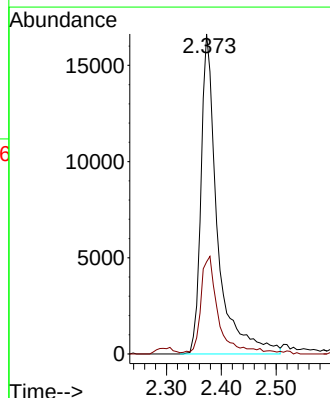
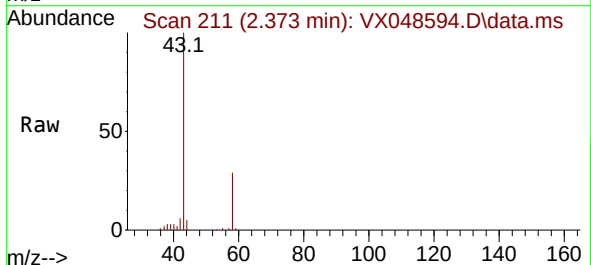
Instrument :
 MSVOA_X
 ClientSampleId :
 AU-713-COMP-03

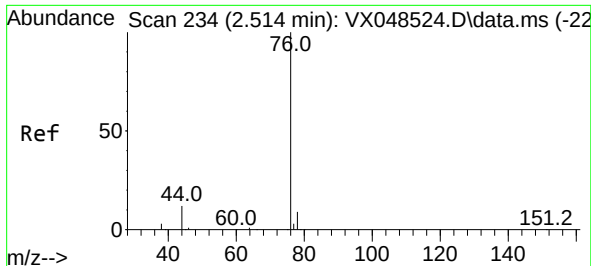
Tgt Ion: 41 Resp: 588
 Ion Ratio Lower Upper
 41 100
 39 0.0 48.6 73.0#
 76 0.0 27.7 41.5#



#16
 Acetone
 Concen: 40.951 ug/l
 RT: 2.373 min Scan# 211
 Delta R.T. -0.000 min
 Lab File: VX048594.D
 Acq: 13 Nov 2025 14:43

Tgt Ion: 43 Resp: 34796
 Ion Ratio Lower Upper
 43 100
 58 28.4 25.8 38.6





#17

Carbon Disulfide

Concen: 0.250 ug/l

RT: 2.519 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX048594.D

Acq: 13 Nov 2025 14:43

Instrument :

MSVOA_X

ClientSampleId :

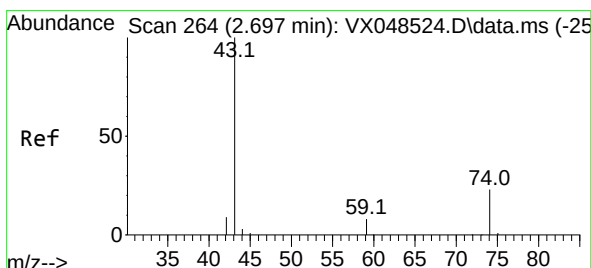
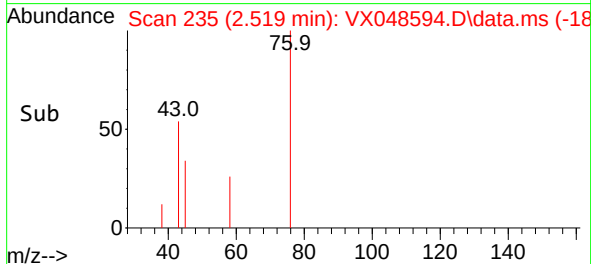
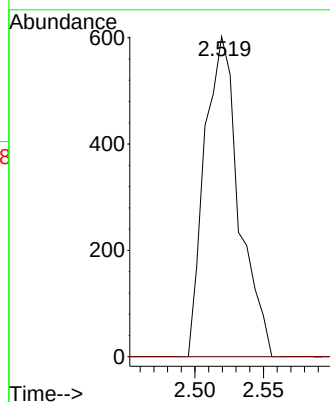
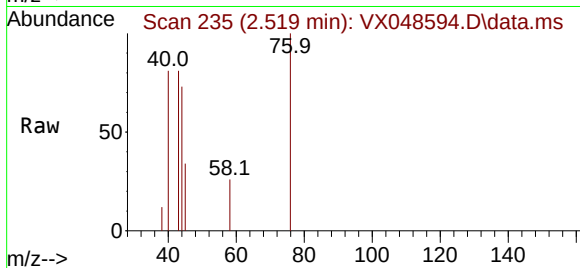
AU-713-COMP-03

Tgt Ion: 76 Resp: 1053

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



#18

Methyl Acetate

Concen: 1.501 ug/l

RT: 2.702 min Scan# 265

Delta R.T. 0.006 min

Lab File: VX048594.D

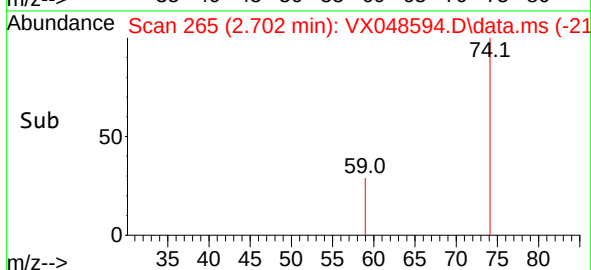
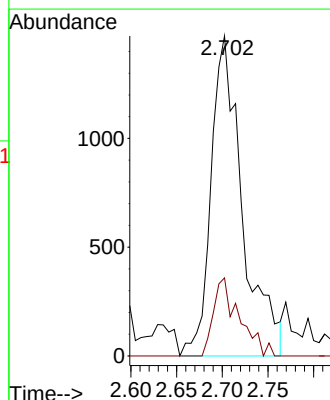
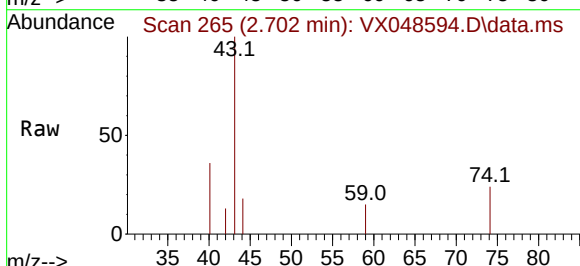
Acq: 13 Nov 2025 14:43

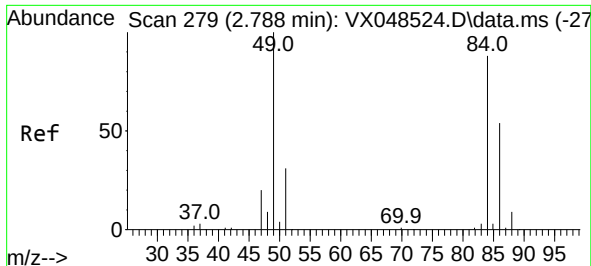
Tgt Ion: 43 Resp: 3505

Ion Ratio Lower Upper

43 100

74 20.1 19.1 28.7

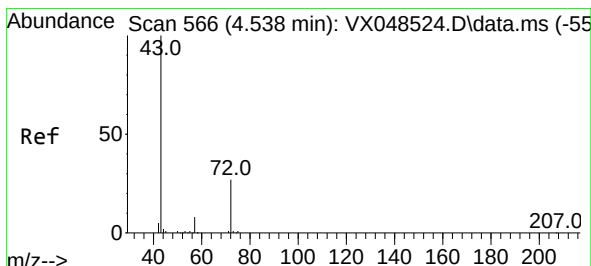
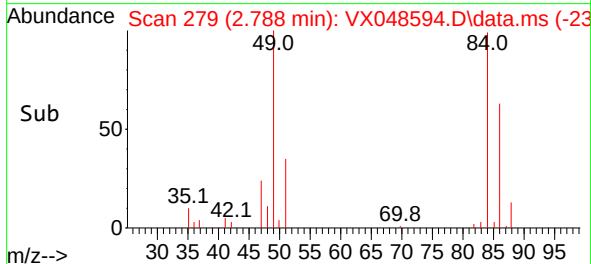
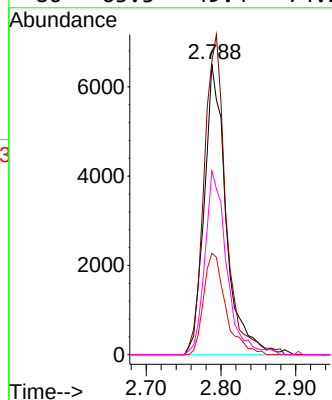
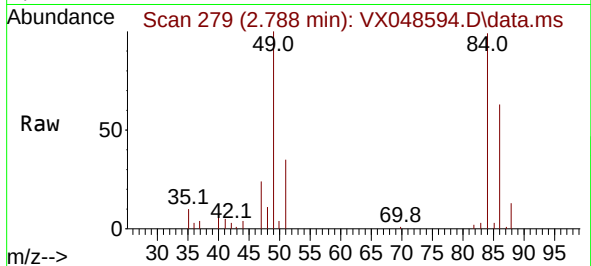




#20
Methylene Chloride
Concen: 7.569 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX048594.D
Acq: 13 Nov 2025 14:43

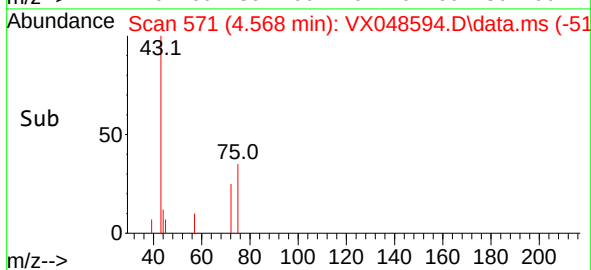
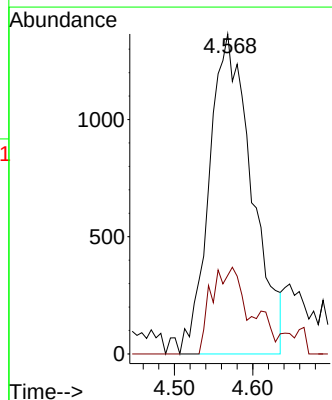
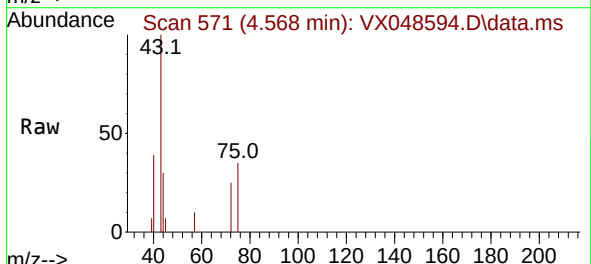
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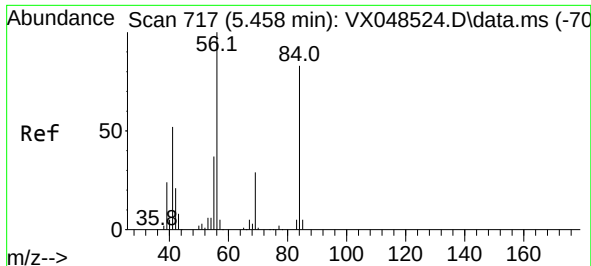
Tgt Ion:	84	Resp:	13222
Ion	Ratio	Lower	Upper
84	100		
49	101.0	91.2	136.8
51	34.9	28.3	42.5
86	63.3	49.4	74.2



#25
2-Butanone
Concen: 4.096 ug/l
RT: 4.568 min Scan# 571
Delta R.T. 0.030 min
Lab File: VX048594.D
Acq: 13 Nov 2025 14:43

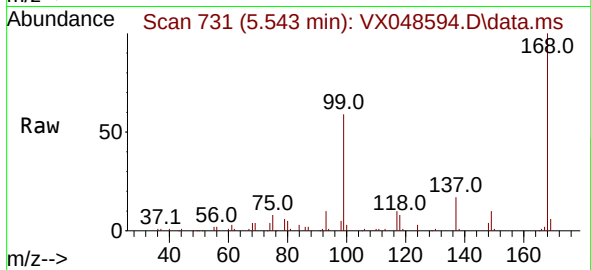
Tgt Ion:	43	Resp:	5149
Ion	Ratio	Lower	Upper
43	100		
72	24.5	21.5	32.3



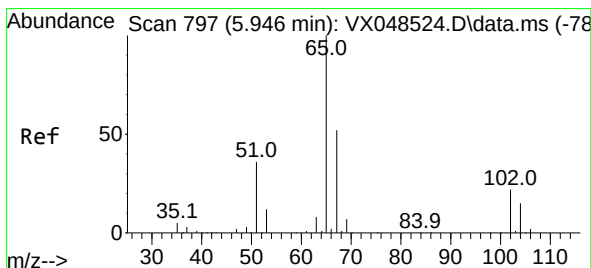
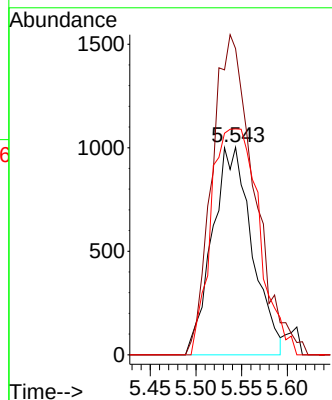
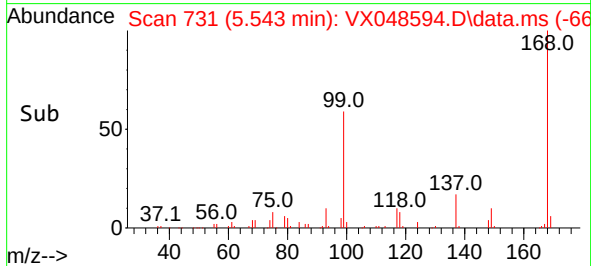


#31
Cyclohexane
Concen: 1.261 ug/l
RT: 5.543 min Scan# 717
Delta R.T. 0.085 min
Lab File: VX048594.D
Acq: 13 Nov 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
AU-713-COMP-03

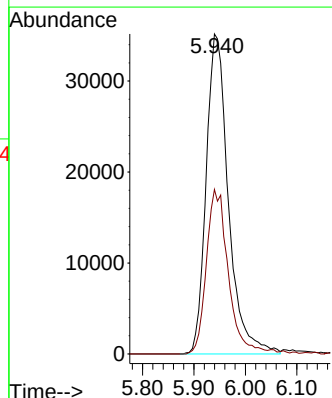
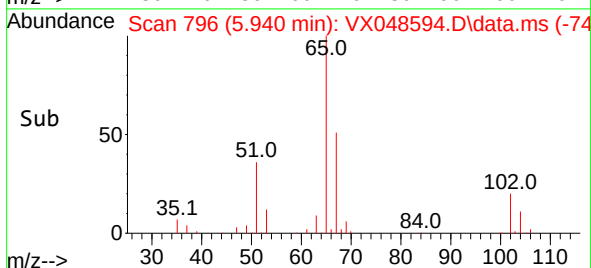
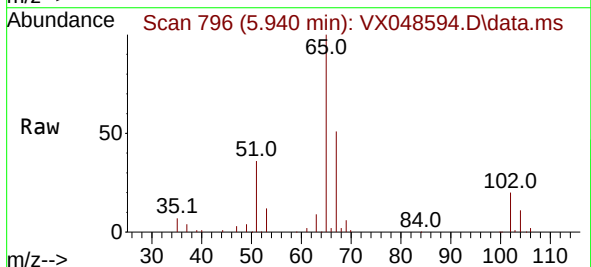


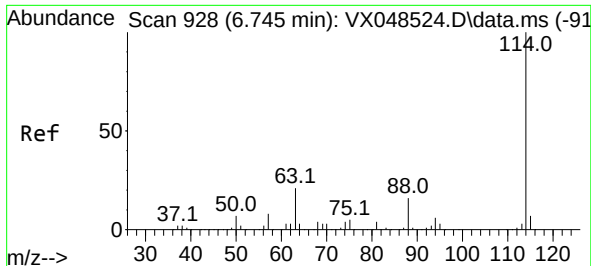
Tgt Ion: 56 Resp: 3040
Ion Ratio Lower Upper
56 100
69 147.6 23.4 35.2#
84 108.9 66.3 99.5#



#33
1,2-Dichloroethane-d4
Concen: 58.877 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.007 min
Lab File: VX048594.D
Acq: 13 Nov 2025 14:43

Tgt Ion: 65 Resp: 105688
Ion Ratio Lower Upper
65 100
67 51.1 0.0 106.2

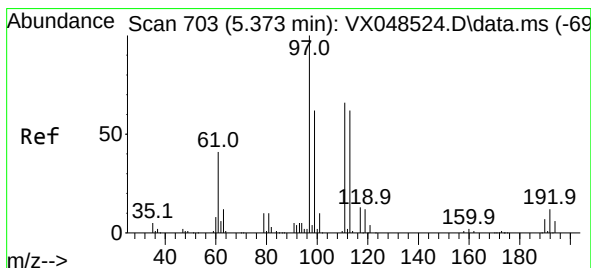
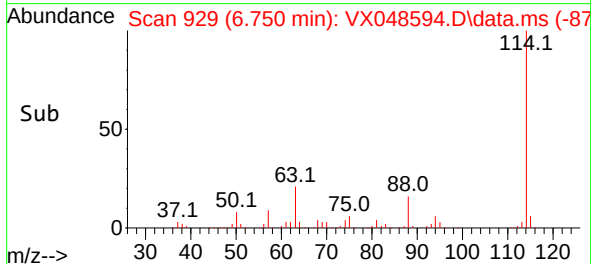
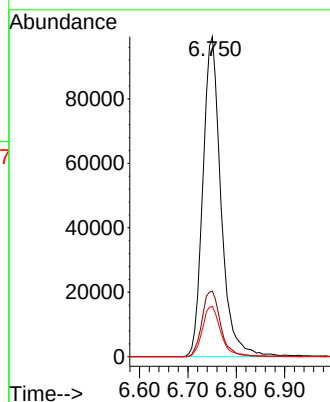
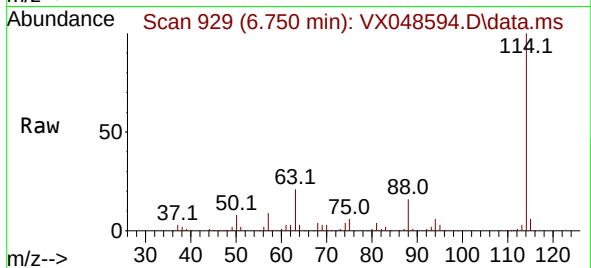




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.750 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX048594.D
Acq: 13 Nov 2025 14:43

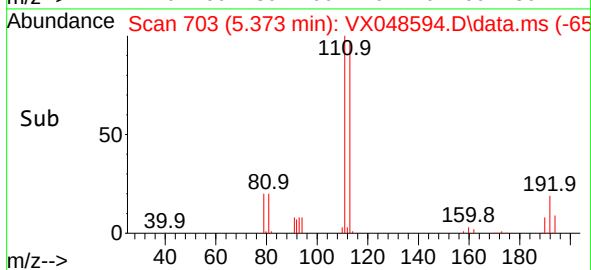
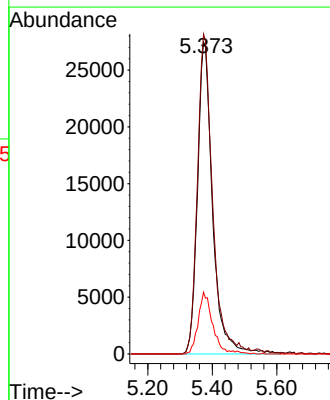
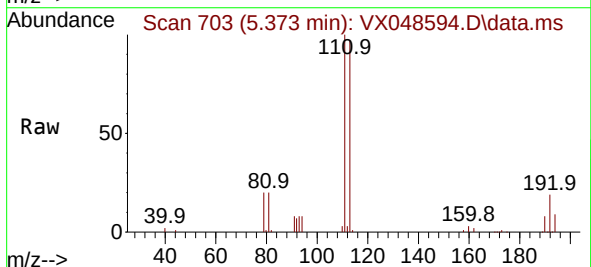
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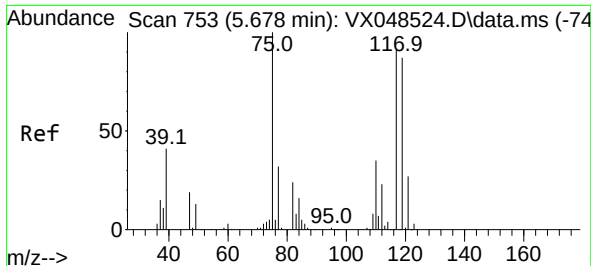
Tgt Ion:114 Resp: 258100
Ion Ratio Lower Upper
114 100
63 20.5 0.0 41.2
88 15.7 0.0 32.2



#35
Dibromofluoromethane
Concen: 45.558 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048594.D
Acq: 13 Nov 2025 14:43

Tgt Ion:113 Resp: 88995
Ion Ratio Lower Upper
113 100
111 103.5 81.9 122.9
192 19.2 15.8 23.6





#36

1,1-Dichloropropene

Concen: 3.927 ug/l

RT: 5.543 min Scan# 71

Delta R.T. -0.135 min

Lab File: VX048594.D

Acq: 13 Nov 2025 14:43

Instrument :

MSVOA_X

ClientSampleId :

AU-713-COMP-03

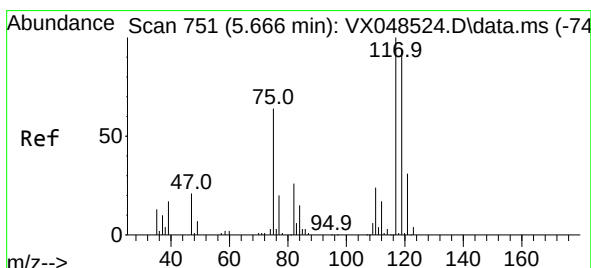
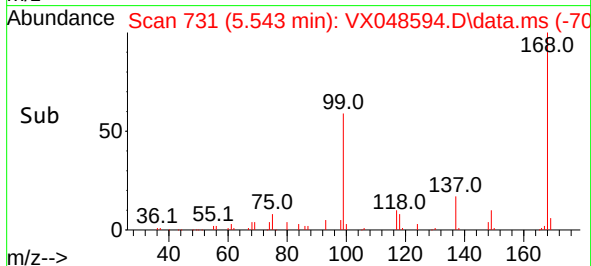
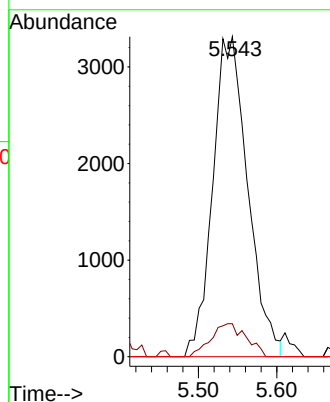
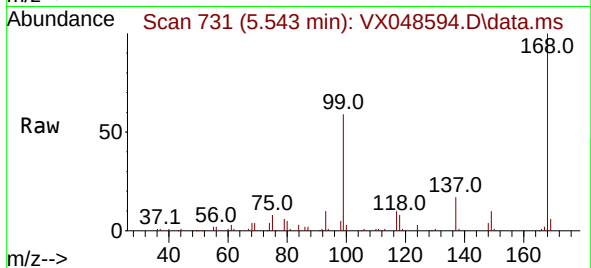
Tgt Ion: 75 Resp: 10273

Ion Ratio Lower Upper

75 100

110 10.5 18.4 55.4#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 4.613 ug/l

RT: 5.549 min Scan# 732

Delta R.T. -0.116 min

Lab File: VX048594.D

Acq: 13 Nov 2025 14:43

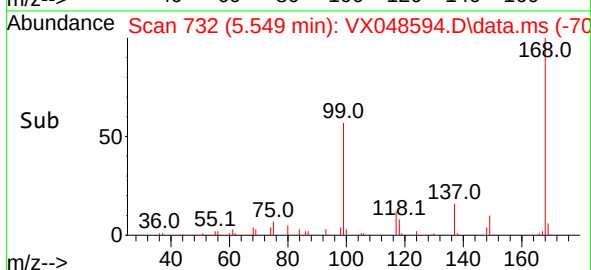
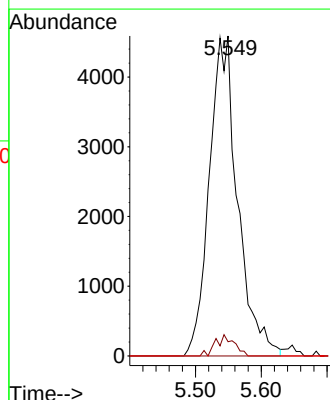
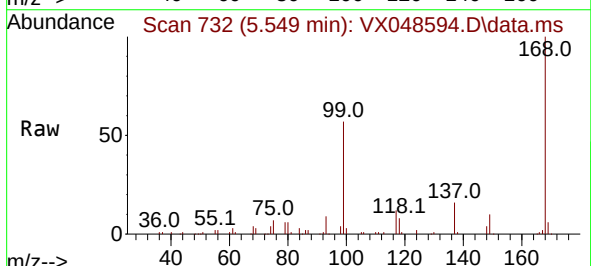
Tgt Ion:117 Resp: 13735

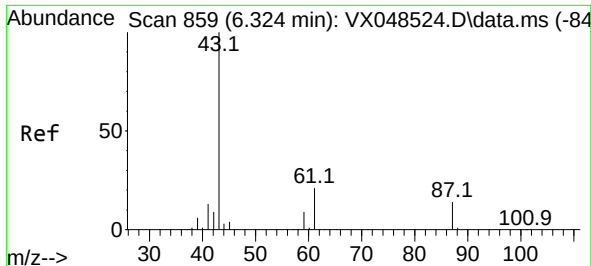
Ion Ratio Lower Upper

117 100

119 4.5 74.5 111.7#

121 0.0 24.8 37.2#

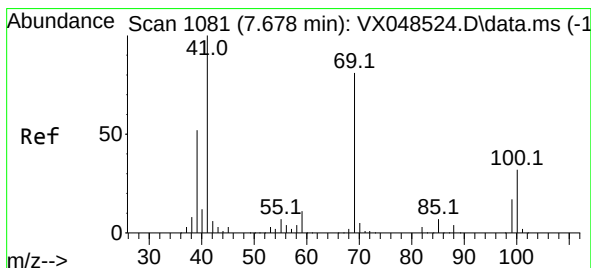
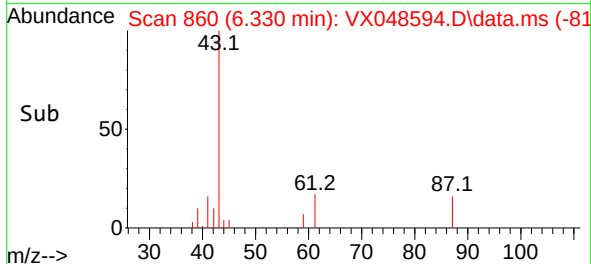
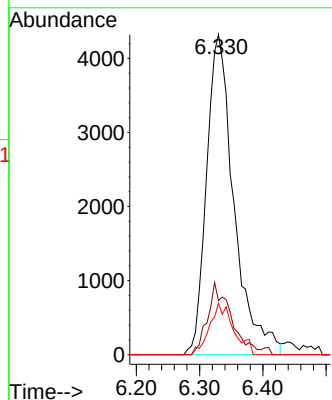
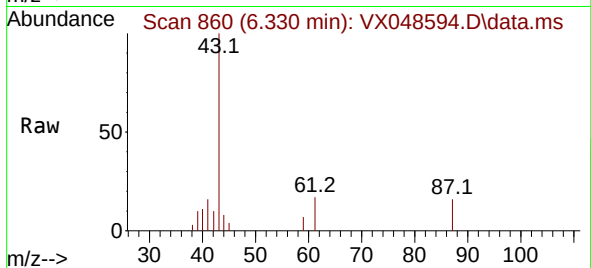




#43
Isopropyl Acetate
Concen: 2.518 ug/l
RT: 6.330 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX048594.D
Acq: 13 Nov 2025 14:43

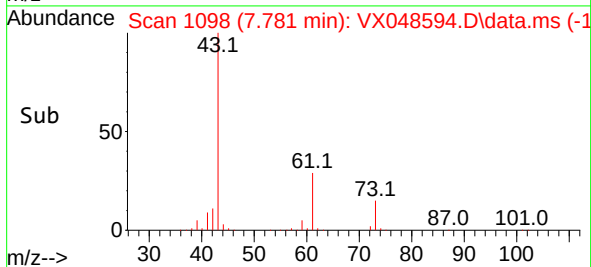
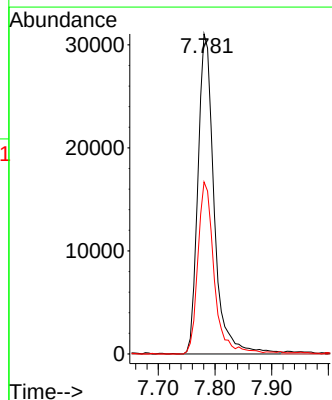
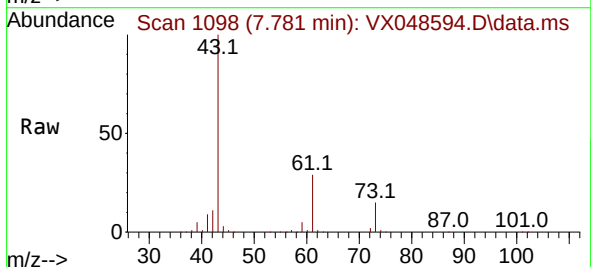
Instrument :
MSVOA_X
ClientSampleId :
AU-713-COMP-03

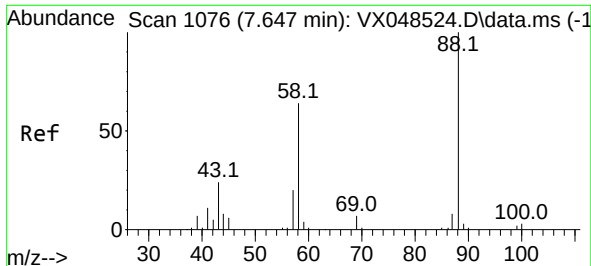
Tgt Ion: 43 Resp: 13031
Ion Ratio Lower Upper
43 100
61 19.4 16.2 24.4
87 14.0 10.9 16.3



#48
Methyl methacrylate
Concen: 26.793 ug/l
RT: 7.781 min Scan# 1098
Delta R.T. 0.103 min
Lab File: VX048594.D
Acq: 13 Nov 2025 14:43

Tgt Ion: 41 Resp: 61646
Ion Ratio Lower Upper
41 100
69 0.0 67.9 101.9#
39 54.0 42.2 63.2





#49

1,4-Dioxane

Concen: 1.084 ug/l

RT: 7.775 min Scan# 1076

Delta R.T. 0.128 min

Lab File: VX048594.D

Acq: 13 Nov 2025 14:43

Instrument :

MSVOA_X

ClientSampleId :

AU-713-COMP-03

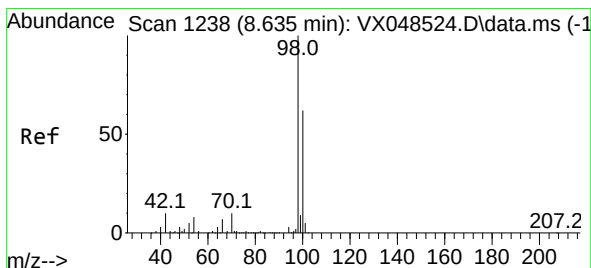
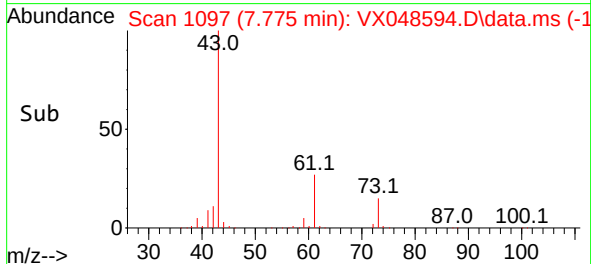
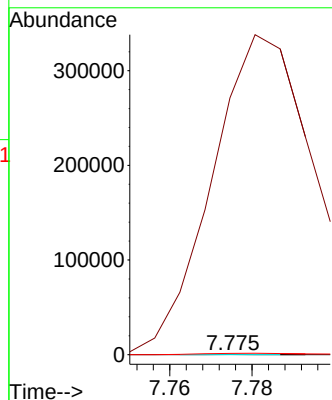
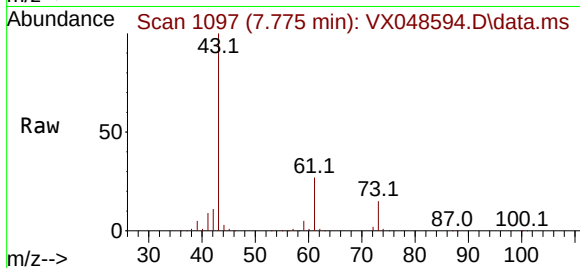
Tgt Ion: 88 Resp: 38

Ion Ratio Lower Upper

88 100

43 1724071.1 25.1 37.7#

58 7631.6 56.7 85.1#



#50

Toluene-d8

Concen: 53.024 ug/l

RT: 8.634 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX048594.D

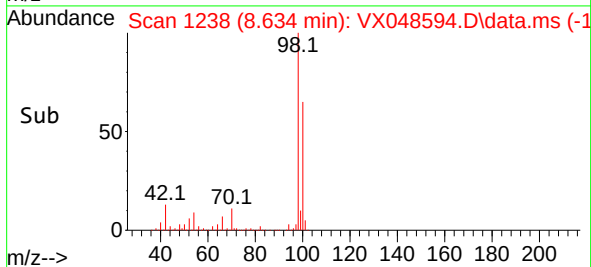
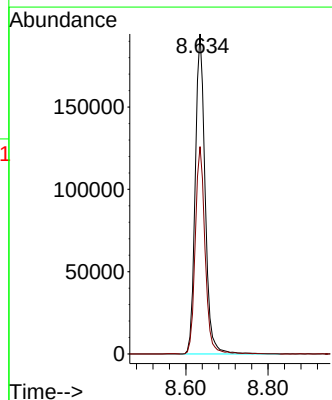
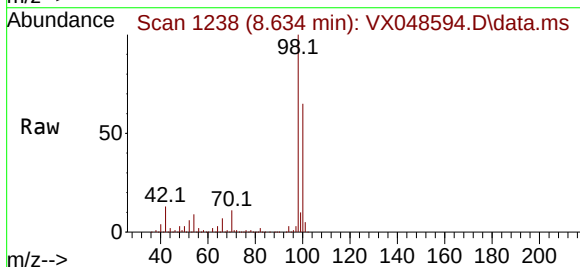
Acq: 13 Nov 2025 14:43

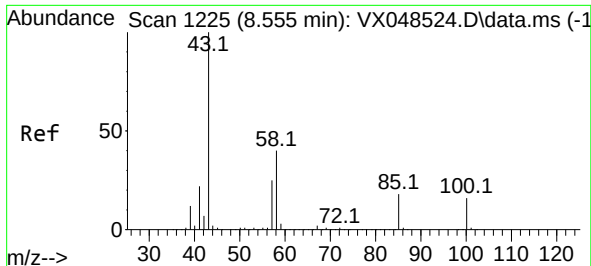
Tgt Ion: 98 Resp: 323053

Ion Ratio Lower Upper

98 100

100 64.5 53.6 80.4

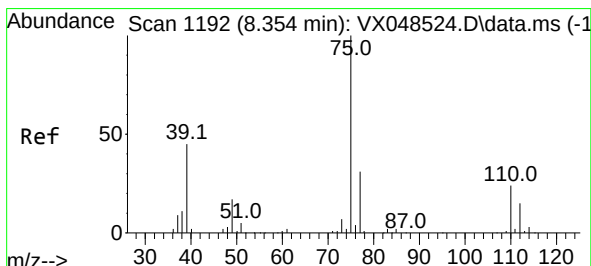
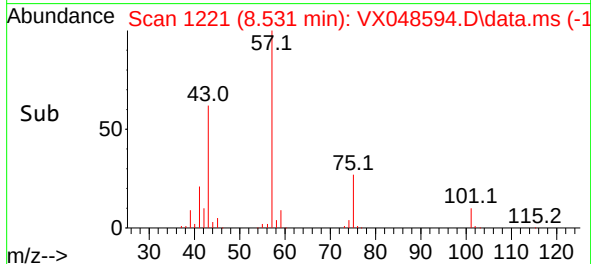
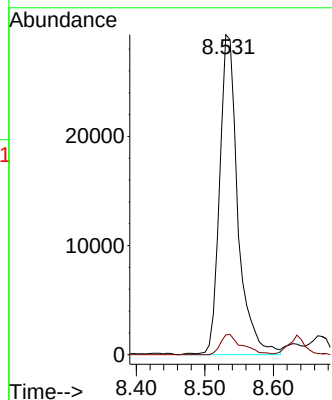
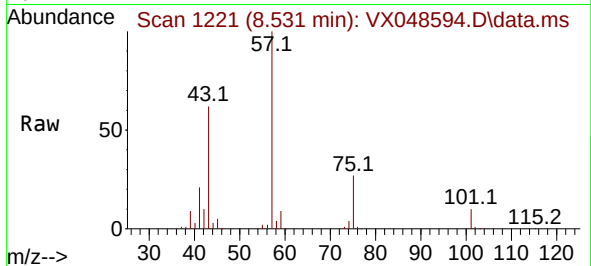




#51
4-Methyl-2-Pentanone
Concen: 18.394 ug/l
RT: 8.531 min Scan# 1121
Delta R.T. -0.025 min
Lab File: VX048594.D
Acq: 13 Nov 2025 14:43

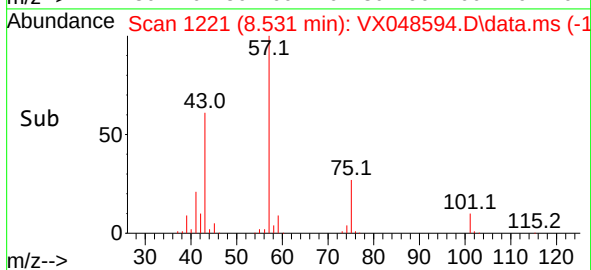
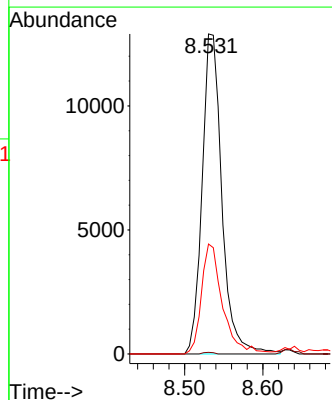
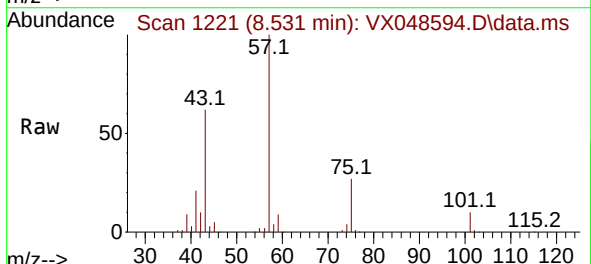
Instrument :
MSVOA_X
ClientSampleId :
AU-713-COMP-03

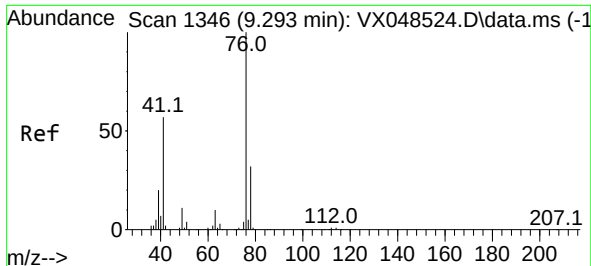
Tgt Ion: 43 Resp: 54194
Ion Ratio Lower Upper
43 100
58 7.5 32.3 48.5#



#54
cis-1,3-Dichloropropene
Concen: 7.808 ug/l
RT: 8.531 min Scan# 1221
Delta R.T. 0.176 min
Lab File: VX048594.D
Acq: 13 Nov 2025 14:43

Tgt Ion: 75 Resp: 22598
Ion Ratio Lower Upper
75 100
77 0.5 24.7 37.1#
39 34.3 36.1 54.1#





#57

1,3-Dichloropropane

Concen: 0.685 ug/l

RT: 9.469 min Scan# 1375

Delta R.T. 0.176 min

Lab File: VX048594.D

Acq: 13 Nov 2025 14:43

Instrument :

MSVOA_X

ClientSampleId :

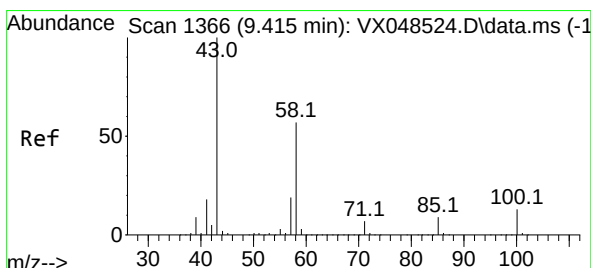
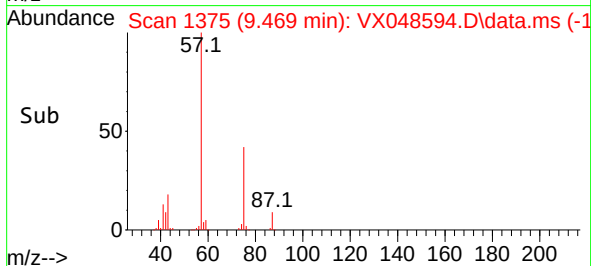
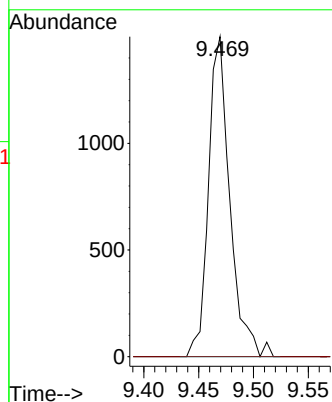
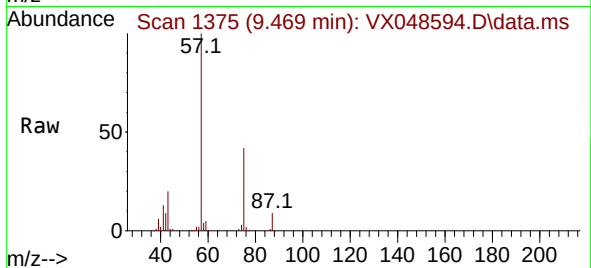
AU-713-COMP-03

Tgt Ion: 76 Resp: 2035

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 13.369 ug/l

RT: 9.469 min Scan# 1375

Delta R.T. 0.054 min

Lab File: VX048594.D

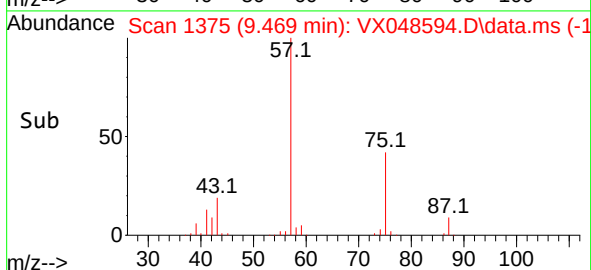
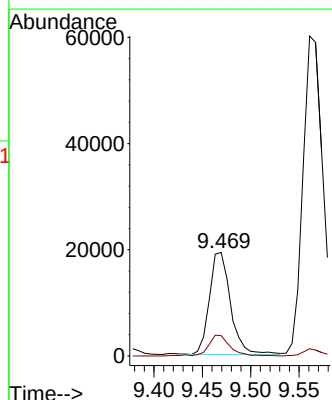
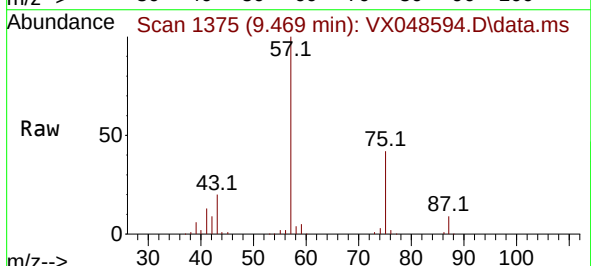
Acq: 13 Nov 2025 14:43

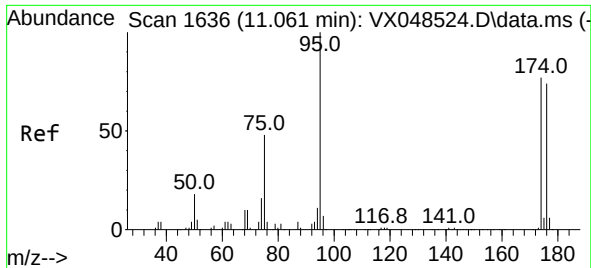
Tgt Ion: 43 Resp: 29299

Ion Ratio Lower Upper

43 100

58 20.8 28.1 84.2#

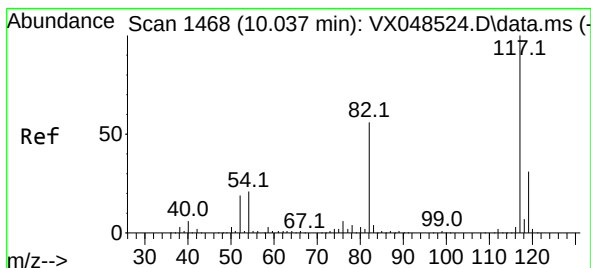
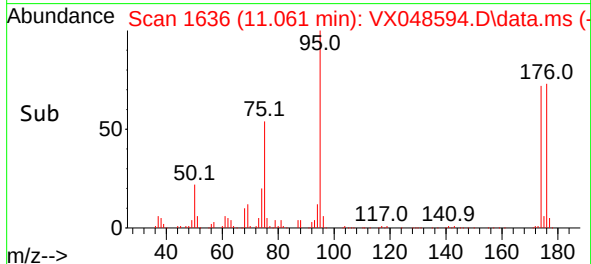
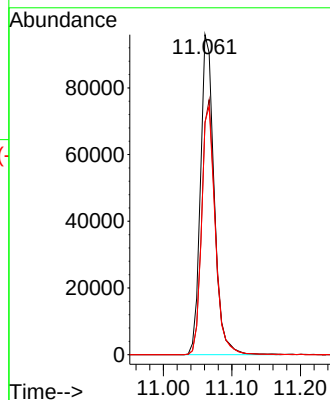
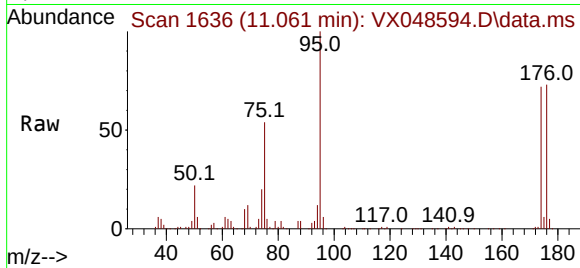




#62
4-Bromofluorobenzene
Concen: 58.572 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048594.D
Acq: 13 Nov 2025 14:43

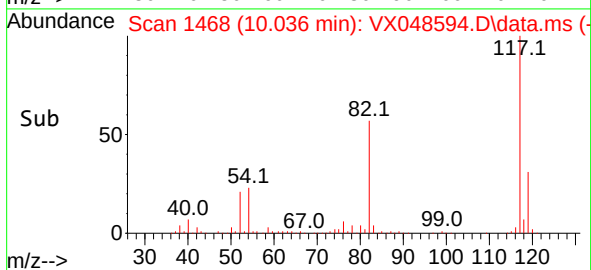
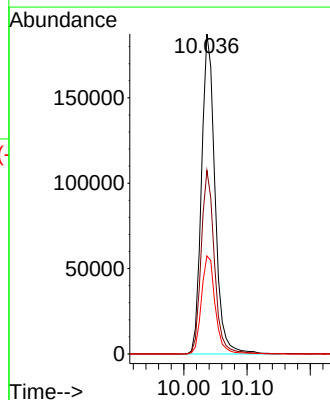
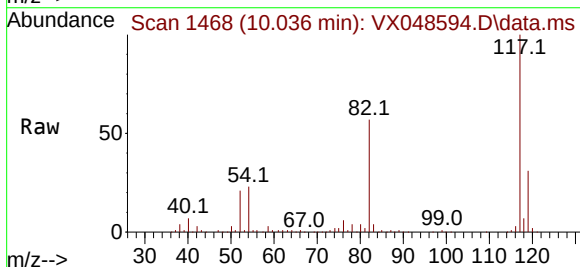
Instrument :
MSVOA_X
ClientSampleId :
AU-713-COMP-03

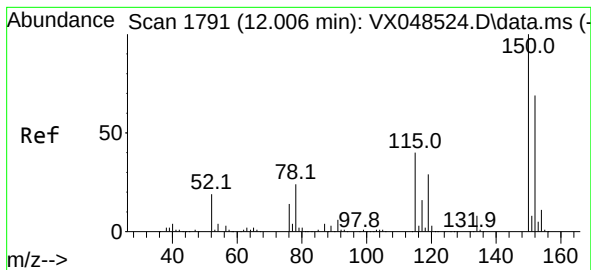
Tgt Ion: 95 Resp: 132987
Ion Ratio Lower Upper
95 100
174 79.4 0.0 161.8
176 77.7 0.0 153.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.036 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048594.D
Acq: 13 Nov 2025 14:43

Tgt Ion: 117 Resp: 278287
Ion Ratio Lower Upper
117 100
82 57.3 44.4 66.6
119 30.6 25.1 37.7

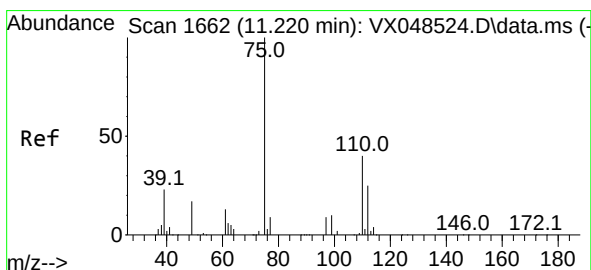
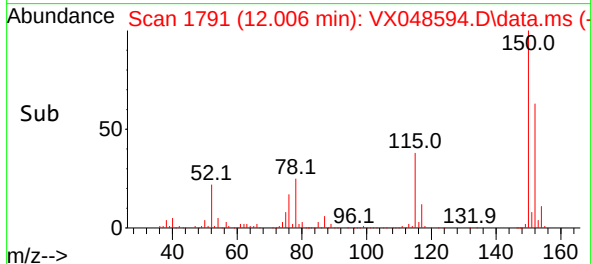
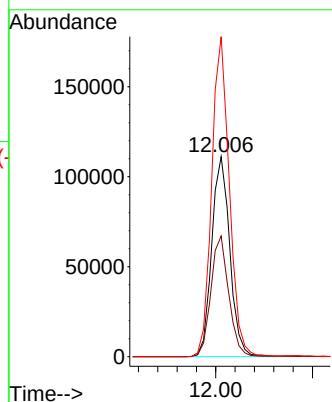
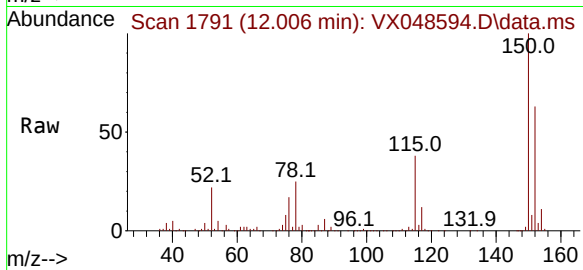




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: VX048594.D
 Acq: 13 Nov 2025 14:43

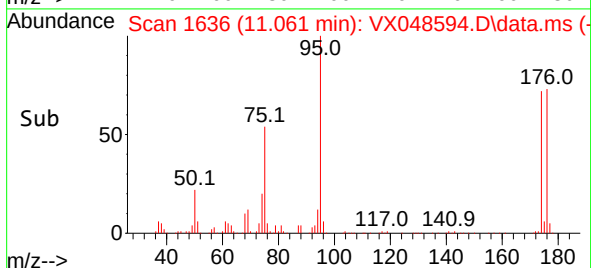
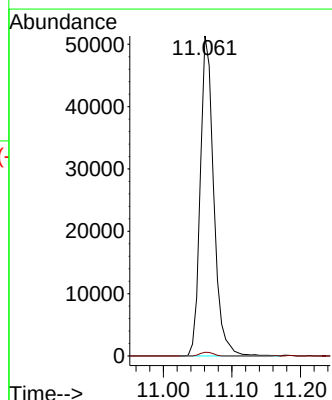
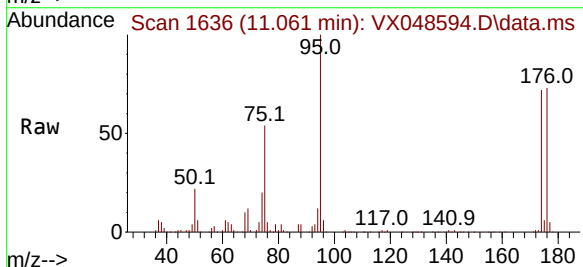
Instrument :
 MSVOA_X
 ClientSampleId :
 AU-713-COMP-03

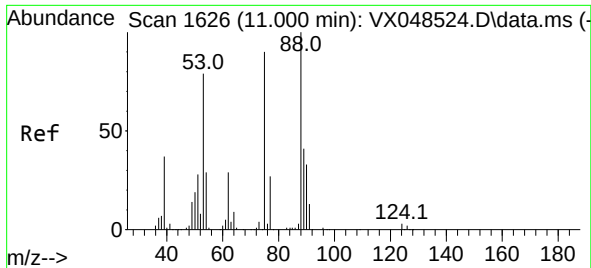
Tgt Ion:152 Resp: 144149
 Ion Ratio Lower Upper
 152 100
 115 59.6 39.2 117.6
 150 156.1 0.0 347.0



#76
 1,2,3-Trichloropropane
 Concen: 20.286 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX048594.D
 Acq: 13 Nov 2025 14:43

Tgt Ion: 75 Resp: 70448
 Ion Ratio Lower Upper
 75 100
 77 1.1 24.3 72.8#

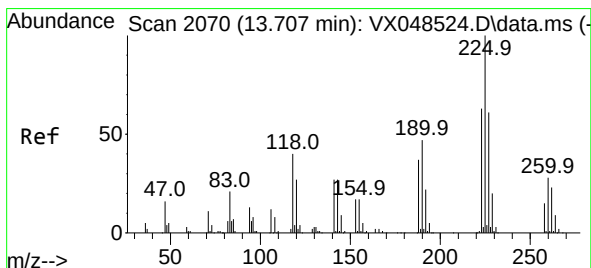
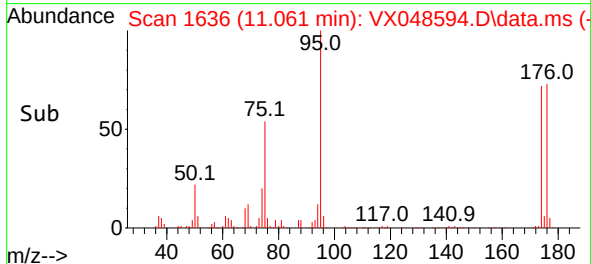
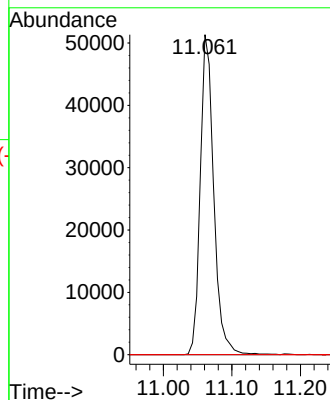
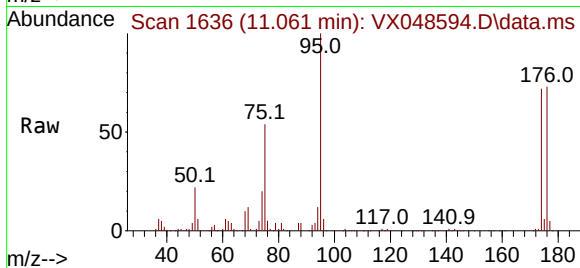




#81
trans-1,4-Dichloro-2-butene
Concen: 58.024 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.060 min
Lab File: VX048594.D
Acq: 13 Nov 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
AU-713-COMP-03

Tgt Ion: 75 Resp: 70448
Ion Ratio Lower Upper
75 100
53 0.0 72.4 108.6#
89 0.0 43.6 65.4#



#94
Hexachlorobutadiene
Concen: 0.244 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX048594.D
Acq: 13 Nov 2025 14:43

Tgt Ion: 225 Resp: 330
Ion Ratio Lower Upper
225 100
223 58.5 30.6 92.0
227 42.7 32.5 97.4

