

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111325\
 Data File : VX048595.D
 Acq On : 13 Nov 2025 15:04
 Operator : JC/MD
 Sample : Q3609-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 AU-713-COMP-04

Quant Time: Nov 14 03:58:56 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

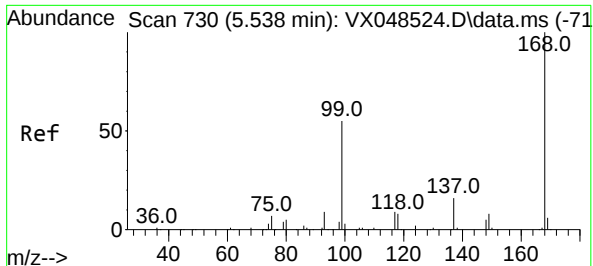
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.544	168	142311	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	287082	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	316623	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	164874	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	121980	61.513	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	123.020%#
35) Dibromofluoromethane	5.373	113	98118	45.157	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	90.320%
50) Toluene-d8	8.635	98	346381	51.114	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	102.220%
62) 4-Bromofluorobenzene	11.061	95	150052	59.416	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	118.840%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.947	59	235	0.625	ug/l #	71
16) Acetone	2.374	43	15659	16.682	ug/l	98
18) Methyl Acetate	2.703	43	3049	1.182	ug/l	97
20) Methylene Chloride	2.794	84	11070	5.736	ug/l	94
25) 2-Butanone	4.581	43	1722	1.240	ug/l	92
29) Tetrahydrofuran	5.013	42	313	0.316	ug/l #	82
31) Cyclohexane	5.538	56	3057	1.148	ug/l #	48
36) 1,1-Dichloropropene	5.532	75	11752	4.039	ug/l #	50
38) Carbon Tetrachloride	5.538	117	15039	4.541	ug/l #	17
41) Methacrylonitrile	5.013	41	530	0.294	ug/l #	40
43) Isopropyl Acetate	6.324	43	13027	2.263	ug/l	99
48) Methyl methacrylate	7.781	41	65389	25.550	ug/l #	42
51) 4-Methyl-2-Pentanone	8.531	43	53014	16.177	ug/l #	48
54) cis-1,3-Dichloropropene	8.531	75	23166	7.196	ug/l #	70
57) 1,3-Dichloropropane	9.464	76	2387	0.723	ug/l #	42
59) 2-Hexanone	9.470	43	32135	13.183	ug/l #	49
76) 1,2,3-Trichloropropane	11.061	75	79754	20.079	ug/l #	30
81) trans-1,4-Dichloro-2-b...	11.061	75	79754	57.432	ug/l #	12

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X110725W.M
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Response via : Initial Calibration

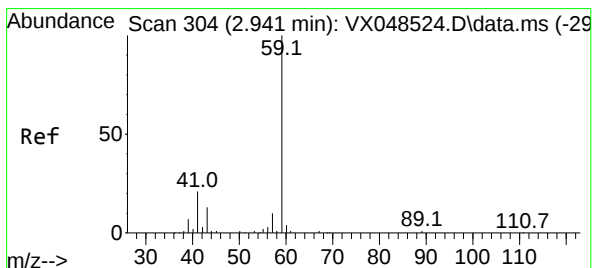
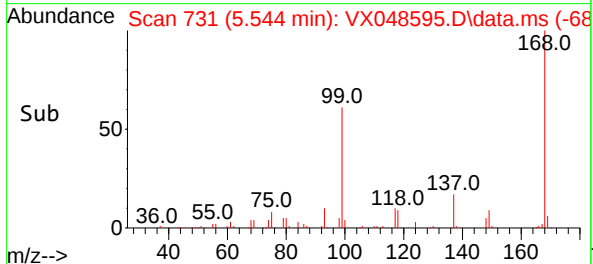
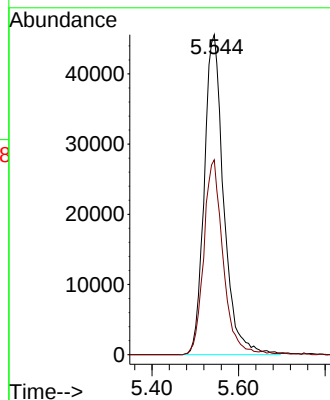
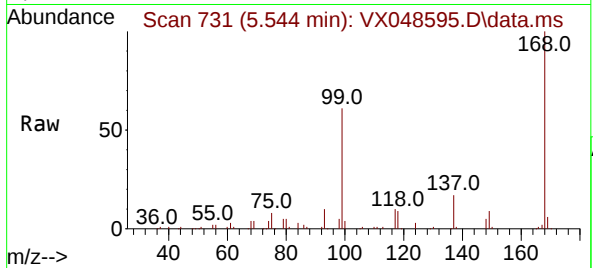




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX048595.D
Acq: 13 Nov 2025 15:04

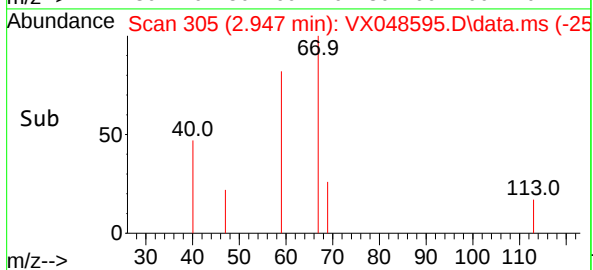
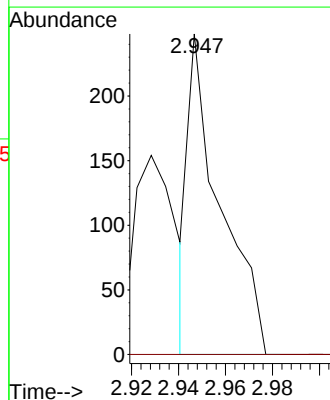
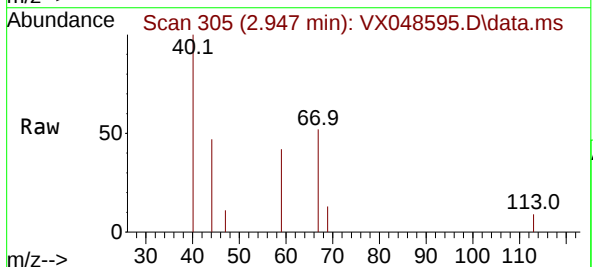
Instrument :
MSVOA_X
ClientSampleId :
AU-713-COMP-04

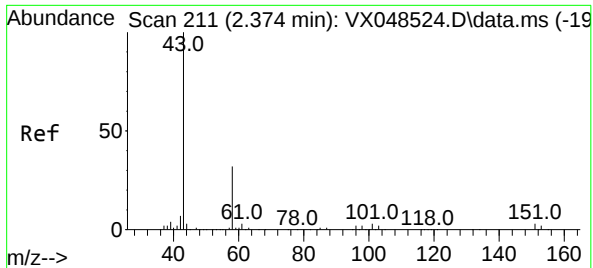
Tgt Ion:168 Resp: 142311
Ion Ratio Lower Upper
168 100
99 60.9 45.2 67.8



#11
Tert butyl alcohol
Concen: 0.625 ug/l
RT: 2.947 min Scan# 305
Delta R.T. 0.006 min
Lab File: VX048595.D
Acq: 13 Nov 2025 15:04

Tgt Ion: 59 Resp: 235
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

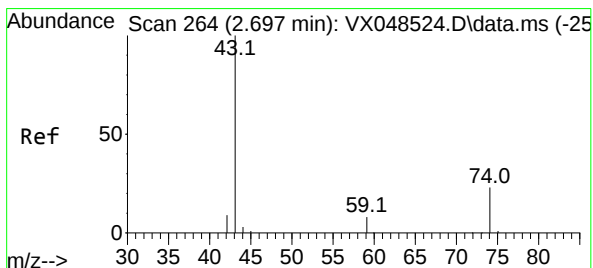
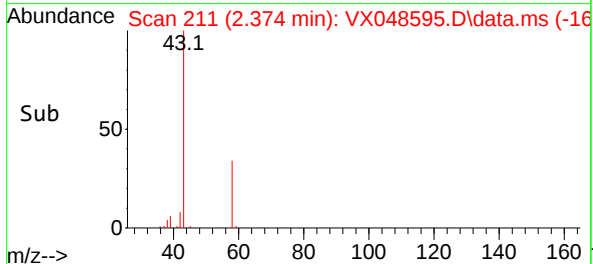
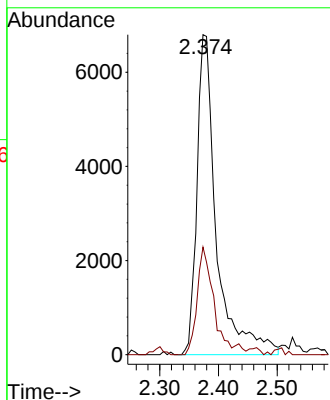
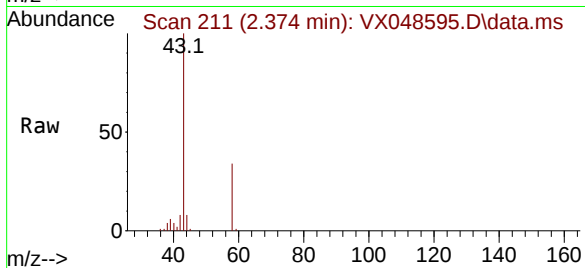




#16
Acetone
Concen: 16.682 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048595.D
Acq: 13 Nov 2025 15:04

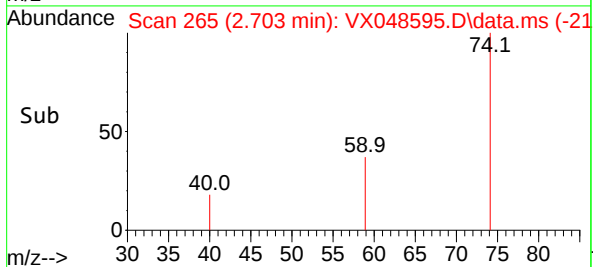
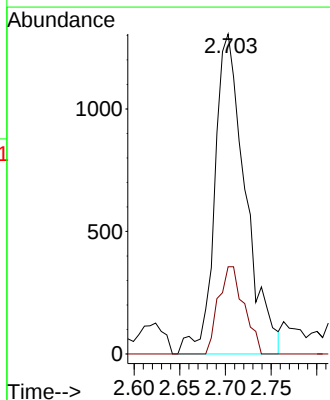
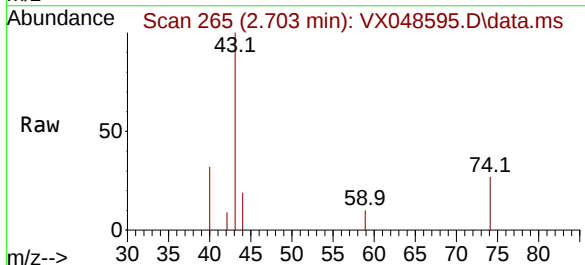
Instrument :
MSVOA_X
ClientSampleId :
AU-713-COMP-04

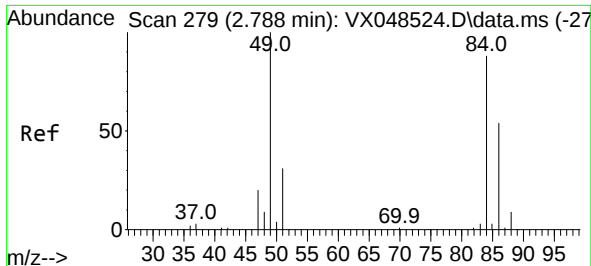
Tgt Ion: 43 Resp: 15659
Ion Ratio Lower Upper
43 100
58 33.6 25.8 38.6



#18
Methyl Acetate
Concen: 1.182 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048595.D
Acq: 13 Nov 2025 15:04

Tgt Ion: 43 Resp: 3049
Ion Ratio Lower Upper
43 100
74 22.6 19.1 28.7

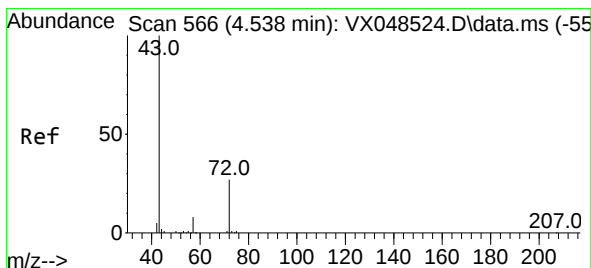
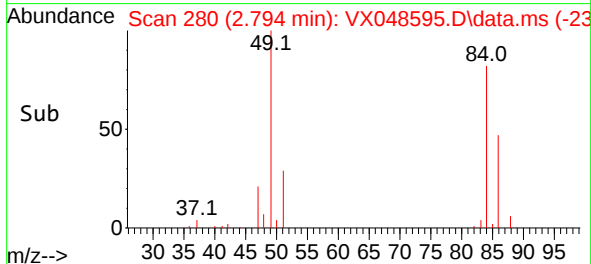
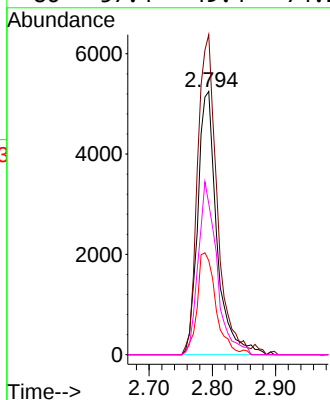
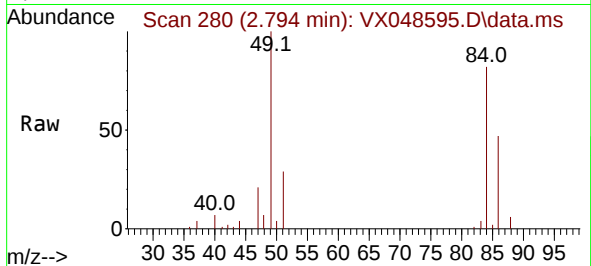




#20
Methylene Chloride
Concen: 5.736 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX048595.D
Acq: 13 Nov 2025 15:04

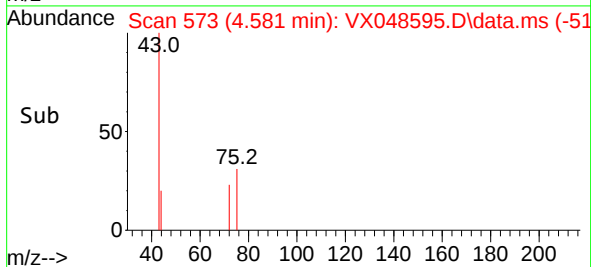
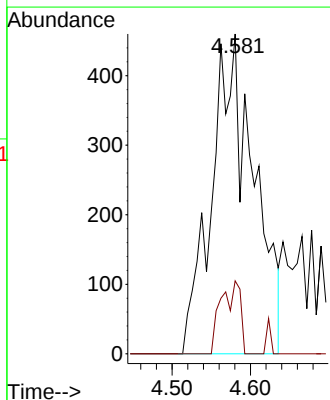
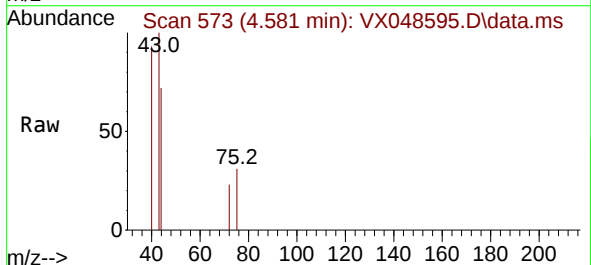
Instrument :
MSVOA_X
ClientSampleId :
AU-713-COMP-04

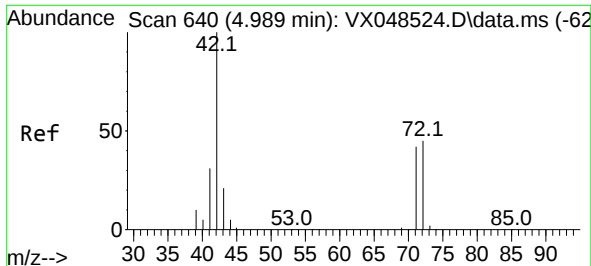
Tgt Ion: 84	Resp: 11070
Ion Ratio	Lower Upper
84 100	
49 121.6	91.2 136.8
51 35.8	28.3 42.5
86 57.4	49.4 74.2



#25
2-Butanone
Concen: 1.240 ug/l
RT: 4.581 min Scan# 573
Delta R.T. 0.043 min
Lab File: VX048595.D
Acq: 13 Nov 2025 15:04

Tgt Ion: 43	Resp: 1722		
Ion Ratio	Lower	Upper	
43 100			
72 22.8	21.5	32.3	





#29

Tetrahydrofuran

Concen: 0.316 ug/l

RT: 5.013 min Scan# 64

Delta R.T. 0.024 min

Lab File: VX048595.D

Acq: 13 Nov 2025 15:04

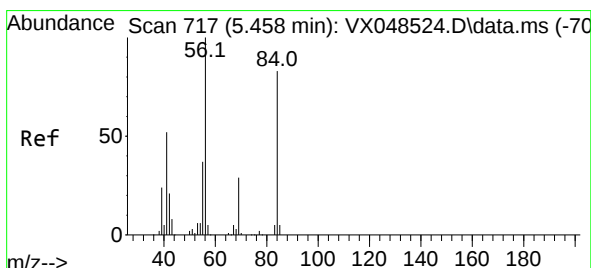
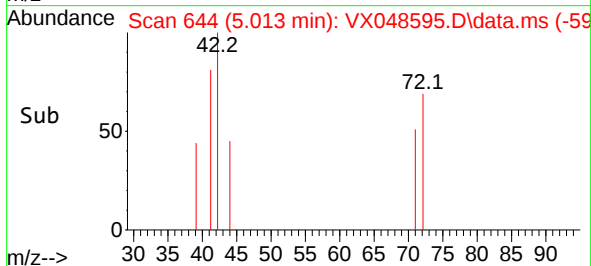
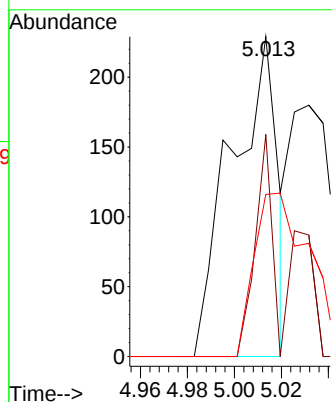
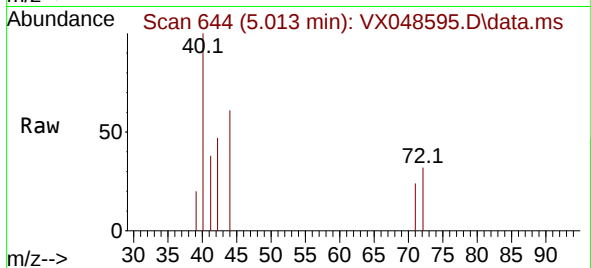
Instrument :

MSVOA_X

ClientSampleId :

AU-713-COMP-04

Tgt Ion:	42	Resp:	313
Ion	Ratio	Lower	Upper
42	100		
72	45.7	36.3	54.5
71	66.1	34.1	51.1#



#31

Cyclohexane

Concen: 1.148 ug/l

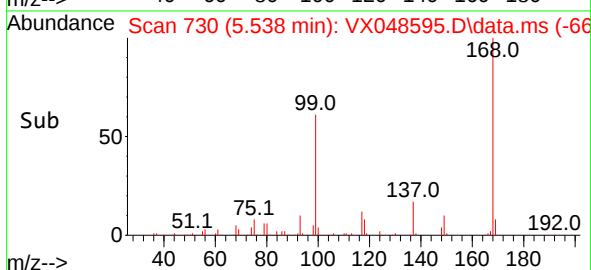
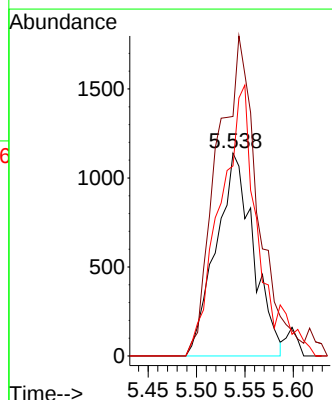
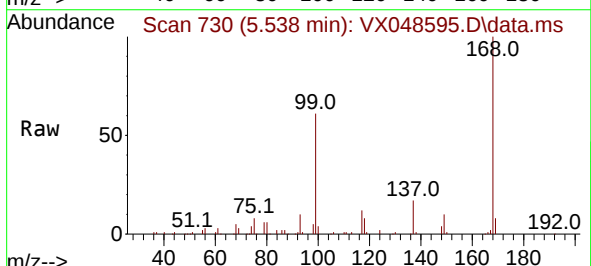
RT: 5.538 min Scan# 730

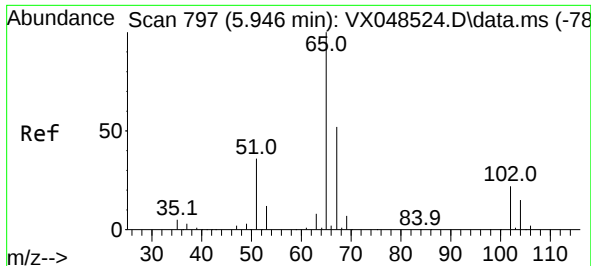
Delta R.T. 0.079 min

Lab File: VX048595.D

Acq: 13 Nov 2025 15:04

Tgt Ion:	56	Resp:	3057
Ion	Ratio	Lower	Upper
56	100		
69	118.2	23.4	35.2#
84	93.8	66.3	99.5

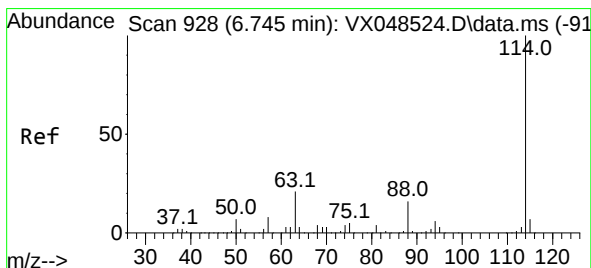
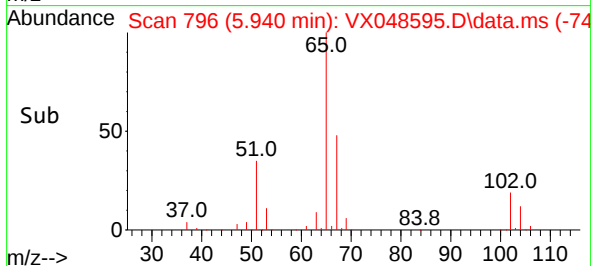
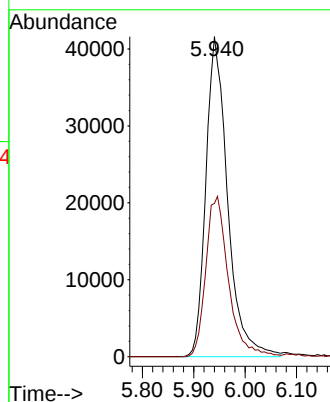
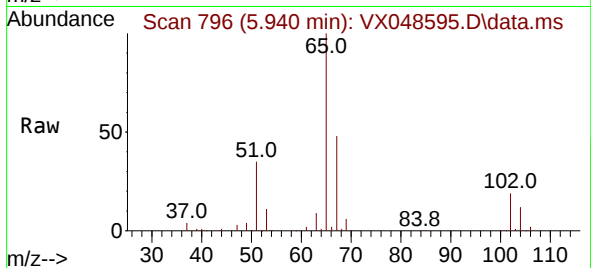




#33
 1,2-Dichloroethane-d4
 Concen: 61.513 ug/l
 RT: 5.940 min Scan# 797
 Delta R.T. -0.006 min
 Lab File: VX048595.D
 Acq: 13 Nov 2025 15:04

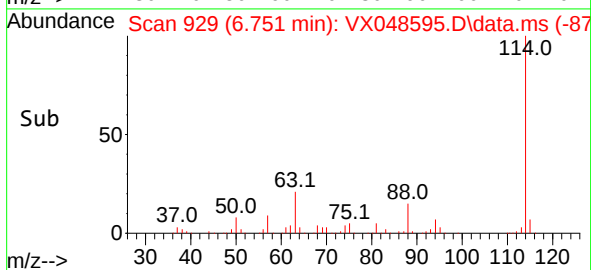
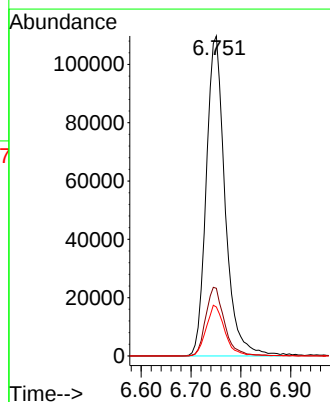
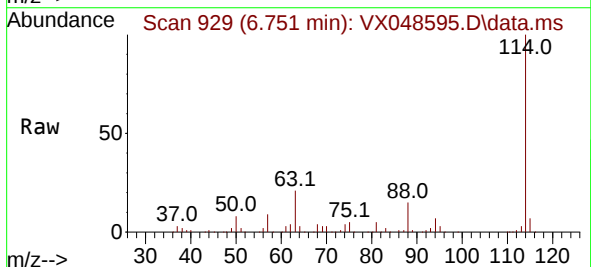
Instrument :
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 ClientSampleId :
 AU-713-COMP-04

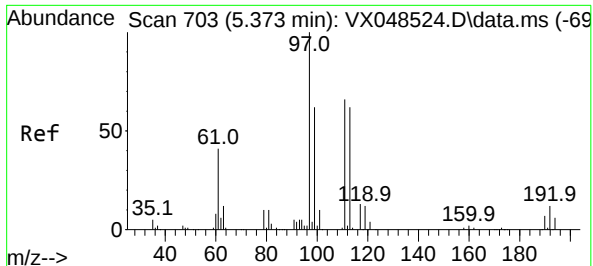
Tgt Ion: 65 Resp: 121980
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.751 min Scan# 929
 Delta R.T. 0.006 min
 Lab File: VX048595.D
 Acq: 13 Nov 2025 15:04

Tgt Ion: 114 Resp: 287082
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 41.2
 88 15.3 0.0 32.2

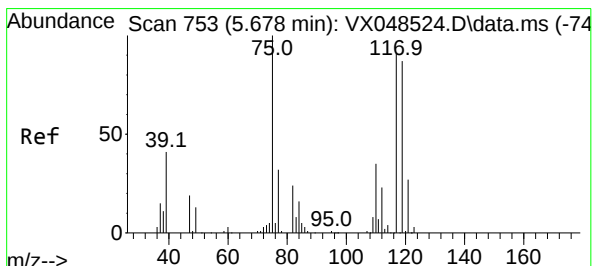
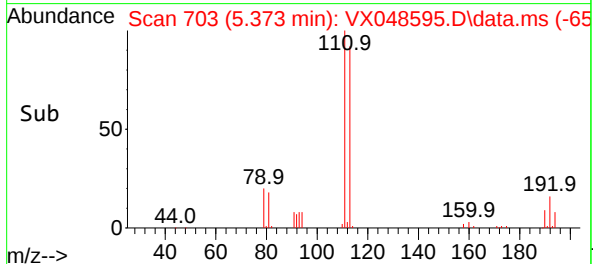
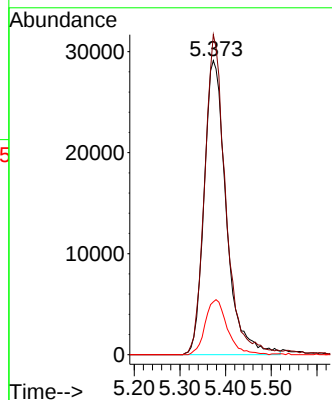
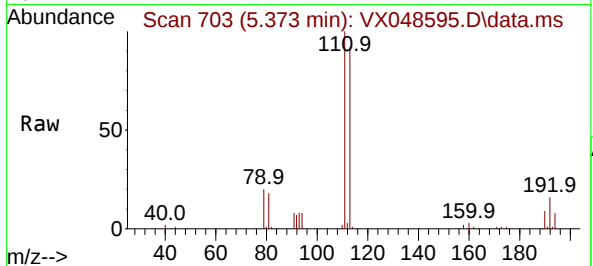




#35
Dibromofluoromethane
Concen: 45.157 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048595.D
Acq: 13 Nov 2025 15:04

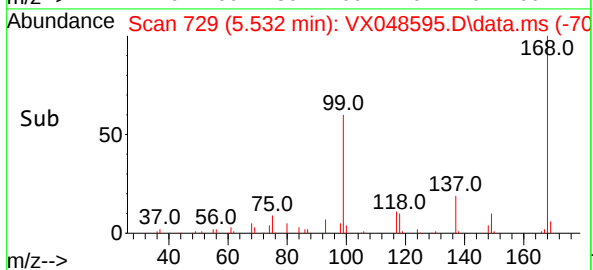
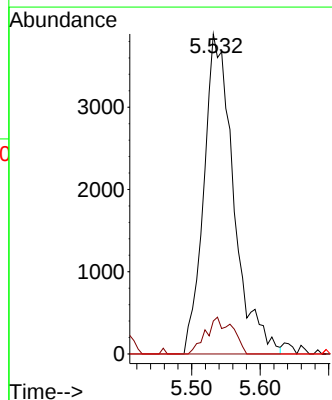
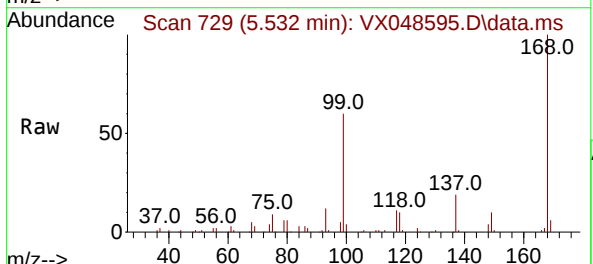
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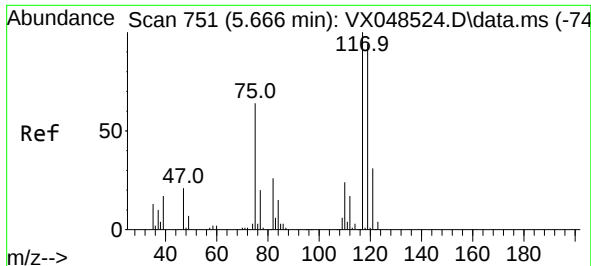
Tgt Ion:113 Resp: 98118
Ion Ratio Lower Upper
113 100
111 103.5 81.9 122.9
192 18.7 15.8 23.6



#36
1,1-Dichloropropene
Concen: 4.039 ug/l
RT: 5.532 min Scan# 729
Delta R.T. -0.146 min
Lab File: VX048595.D
Acq: 13 Nov 2025 15:04

Tgt Ion: 75 Resp: 11752
Ion Ratio Lower Upper
75 100
110 10.2 18.4 55.4#
77 0.0 24.6 37.0#

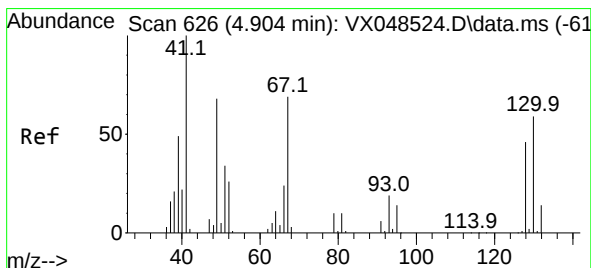
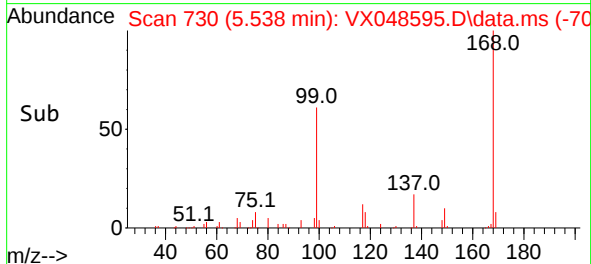
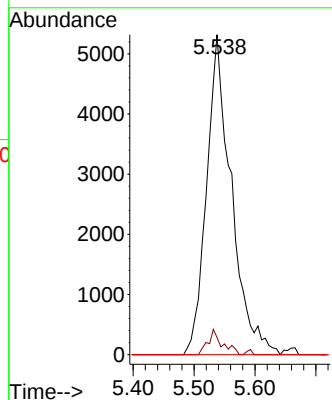
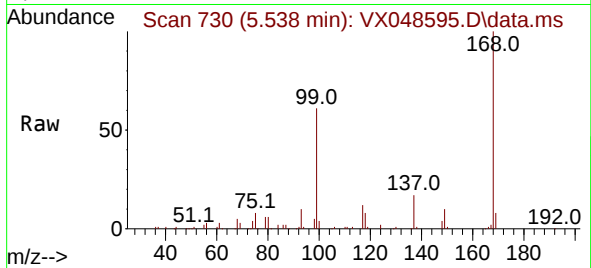




#38
Carbon Tetrachloride
Concen: 4.541 ug/l
RT: 5.538 min Scan# 711
Delta R.T. -0.128 min
Lab File: VX048595.D
Acq: 13 Nov 2025 15:04

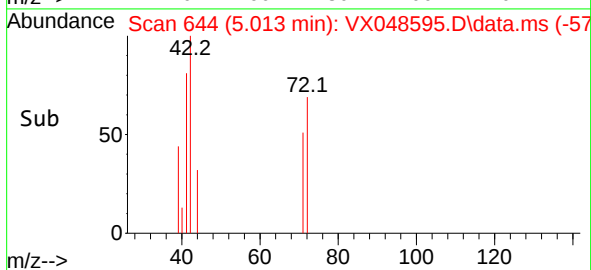
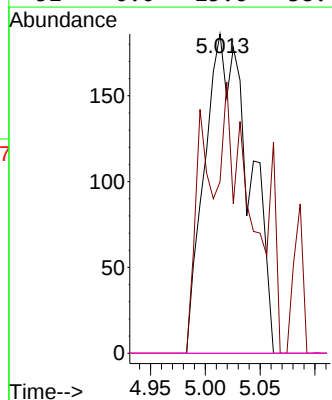
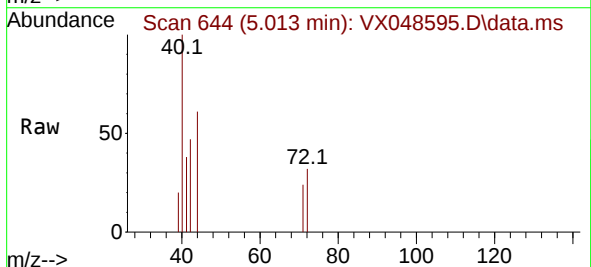
Instrument :
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ClientSampleId :
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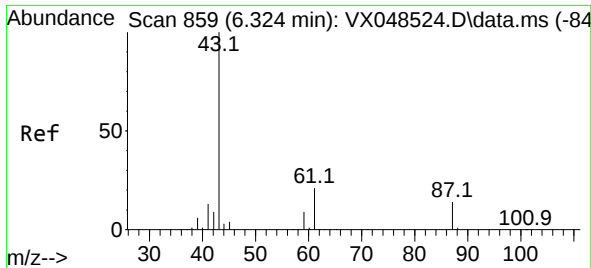
Tgt Ion:117 Resp: 15039
Ion Ratio Lower Upper
117 100
119 5.4 74.5 111.7#
121 0.0 24.8 37.2#



#41
Methacrylonitrile
Concen: 0.294 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.110 min
Lab File: VX048595.D
Acq: 13 Nov 2025 15:04

Tgt Ion: 41 Resp: 530
Ion Ratio Lower Upper
41 100
39 61.3 41.1 61.7
67 0.0 64.2 96.2#
52 0.0 25.6 38.4#

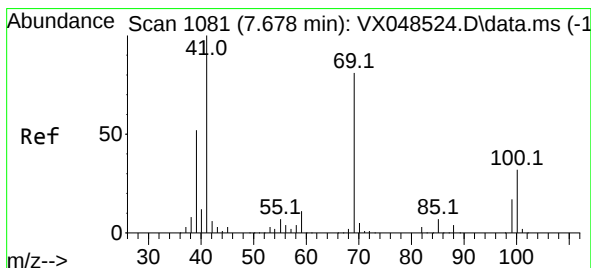
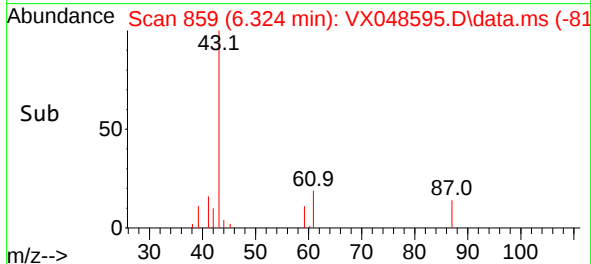
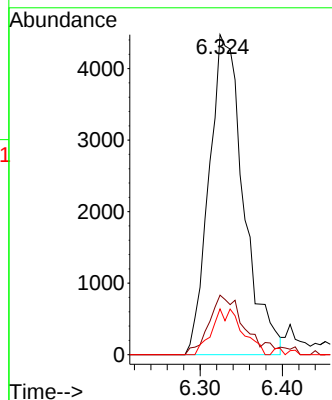
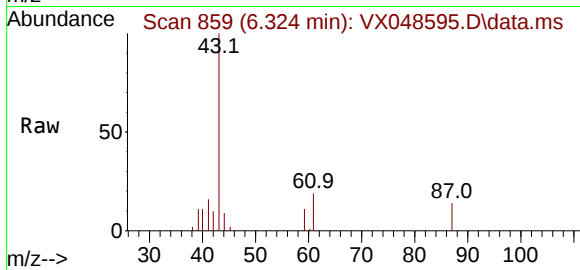




#43
Isopropyl Acetate
Concen: 2.263 ug/l
RT: 6.324 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX048595.D
Acq: 13 Nov 2025 15:04

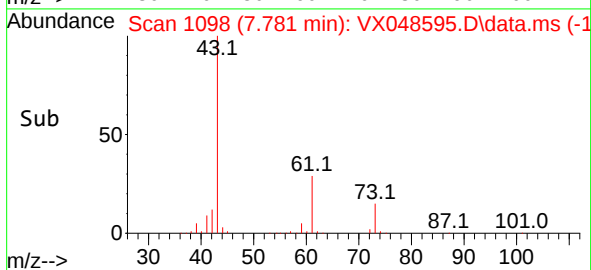
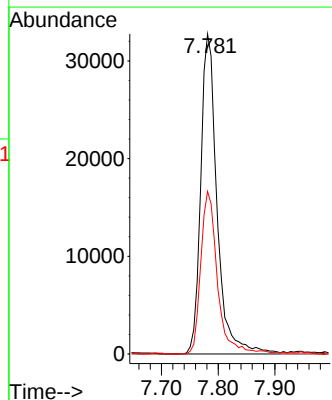
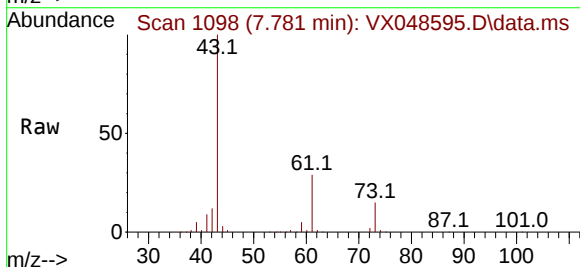
Instrument :
MSVOA_X
ClientSampleId :
AU-713-COMP-04

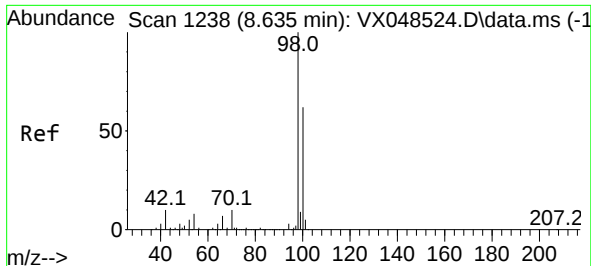
Tgt Ion:	43	Resp:	13027
Ion	Ratio	Lower	Upper
43	100		
61	20.1	16.2	24.4
87	12.6	10.9	16.3



#48
Methyl methacrylate
Concen: 25.550 ug/l
RT: 7.781 min Scan# 1098
Delta R.T. 0.104 min
Lab File: VX048595.D
Acq: 13 Nov 2025 15:04

Tgt Ion:	41	Resp:	65389
Ion	Ratio	Lower	Upper
41	100		
69	0.0	67.9	101.9#
39	51.9	42.2	63.2

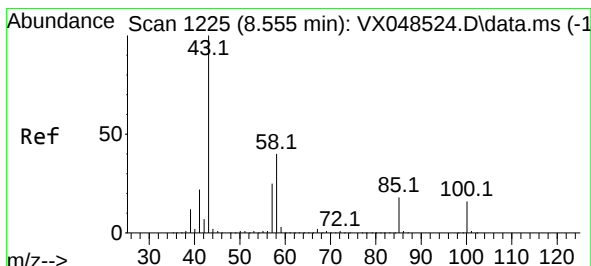
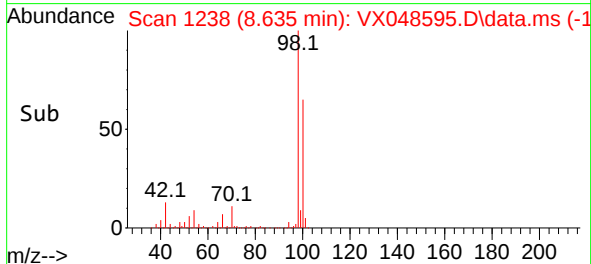
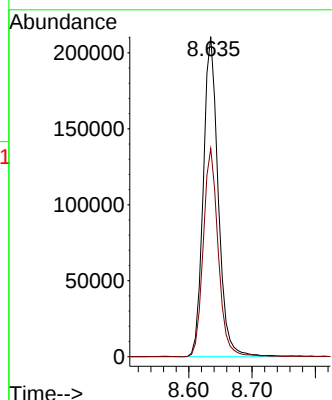
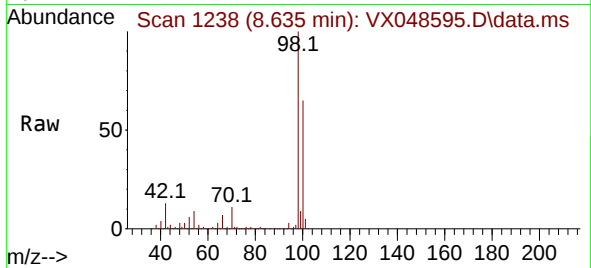




#50
Toluene-d8
Concen: 51.114 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048595.D
Acq: 13 Nov 2025 15:04

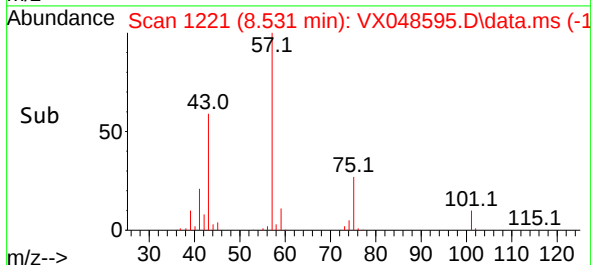
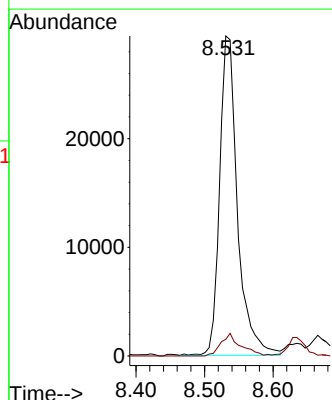
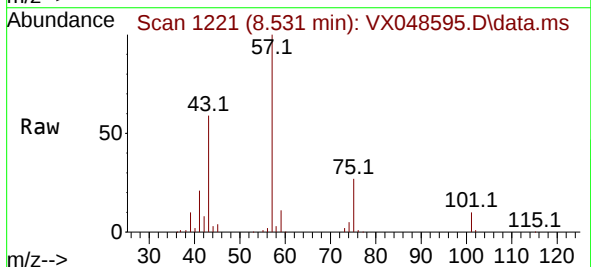
Instrument :
MSVOA_X
ClientSampleId :
AU-713-COMP-04

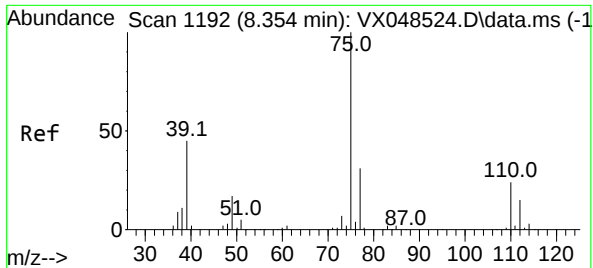
Tgt Ion: 98 Resp: 346381
Ion Ratio Lower Upper
98 100
100 65.2 53.6 80.4



#51
4-Methyl-2-Pentanone
Concen: 16.177 ug/l
RT: 8.531 min Scan# 1221
Delta R.T. -0.024 min
Lab File: VX048595.D
Acq: 13 Nov 2025 15:04

Tgt Ion: 43 Resp: 53014
Ion Ratio Lower Upper
43 100
58 7.9 32.3 48.5

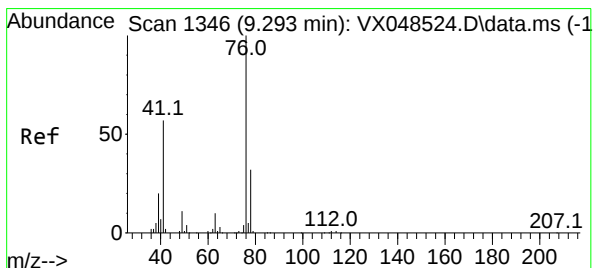
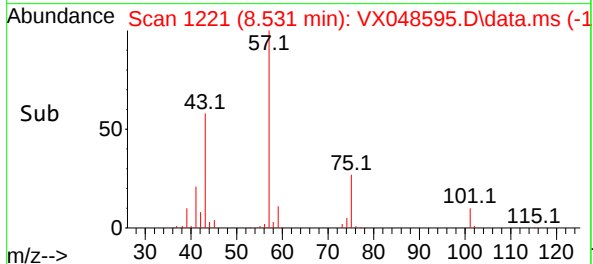
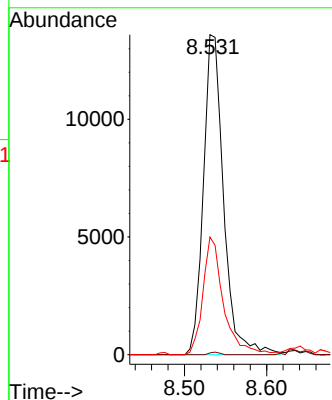
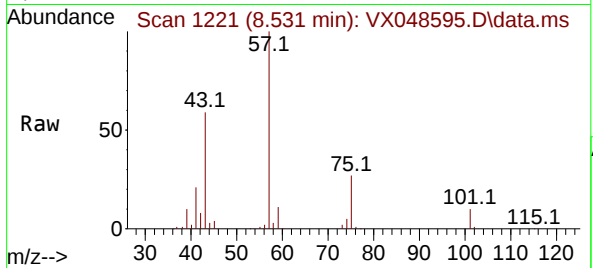




#54
 cis-1,3-Dichloropropene
 Concen: 7.196 ug/l
 RT: 8.531 min Scan# 1192
 Delta R.T. 0.177 min
 Lab File: VX048595.D
 Acq: 13 Nov 2025 15:04

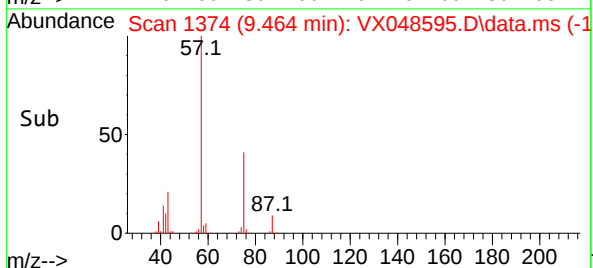
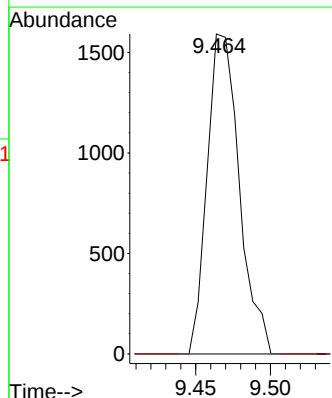
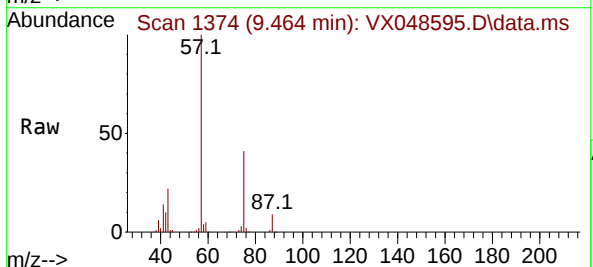
Instrument :
 MSVOA_X
 ClientSampleId :
 AU-713-COMP-04

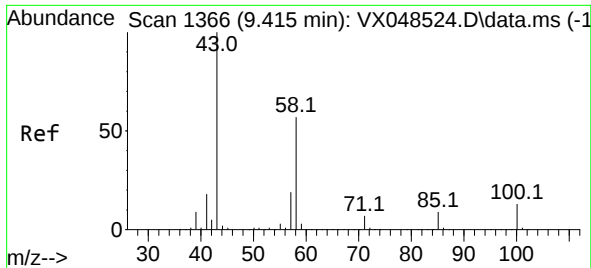
Tgt Ion: 75 Resp: 23166
 Ion Ratio Lower Upper
 75 100
 77 0.6 24.7 37.1#
 39 36.7 36.1 54.1



#57
 1,3-Dichloropropane
 Concen: 0.723 ug/l
 RT: 9.464 min Scan# 1374
 Delta R.T. 0.171 min
 Lab File: VX048595.D
 Acq: 13 Nov 2025 15:04

Tgt Ion: 76 Resp: 2387
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#

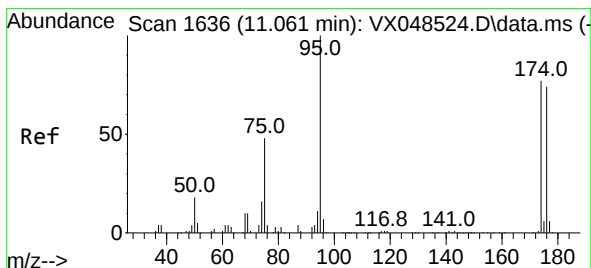
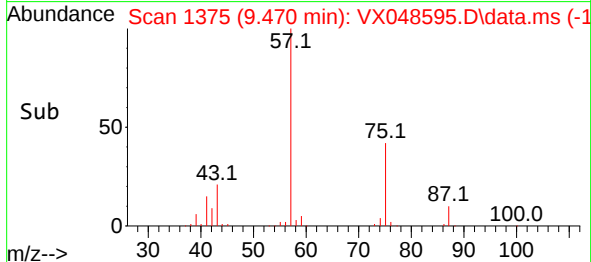
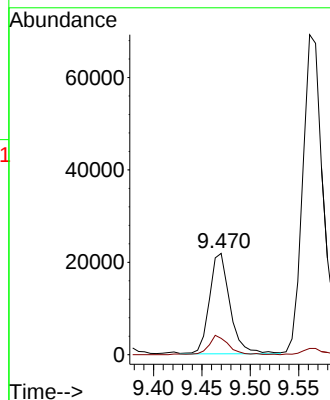
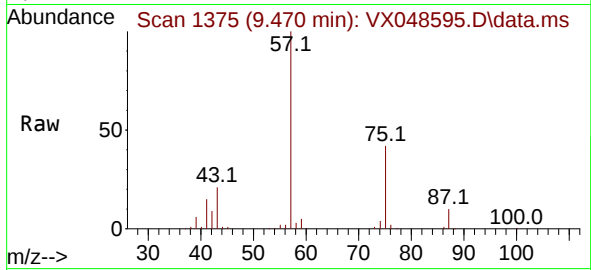




#59
2-Hexanone
Concen: 13.183 ug/l
RT: 9.470 min Scan# 11
Delta R.T. 0.055 min
Lab File: VX048595.D
Acq: 13 Nov 2025 15:04

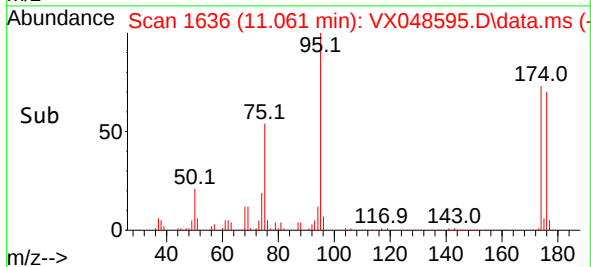
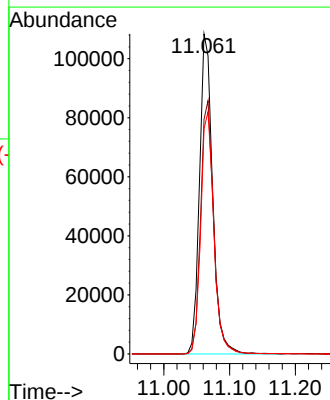
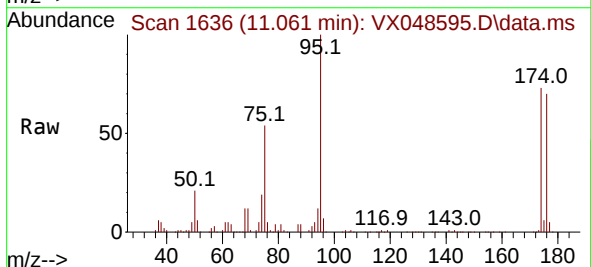
Instrument :
MSVOA_X
ClientSampleId :
AU-713-COMP-04

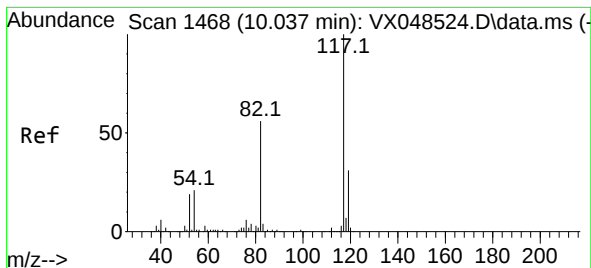
Tgt Ion: 43 Resp: 32135
Ion Ratio Lower Upper
43 100
58 18.9 28.1 84.2#



#62
4-Bromofluorobenzene
Concen: 59.416 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048595.D
Acq: 13 Nov 2025 15:04

Tgt Ion: 95 Resp: 150052
Ion Ratio Lower Upper
95 100
174 79.3 0.0 161.8
176 75.9 0.0 153.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048595.D

Acq: 13 Nov 2025 15:04

Instrument :

MSVOA_X

ClientSampleId :

AU-713-COMP-04

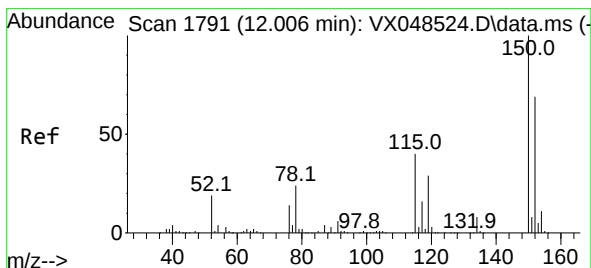
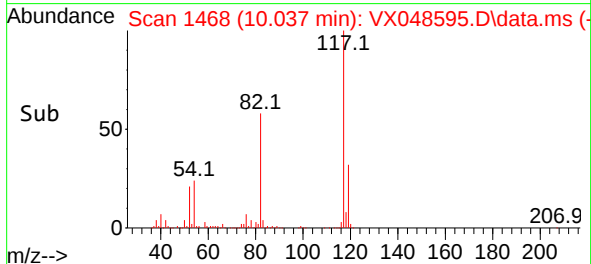
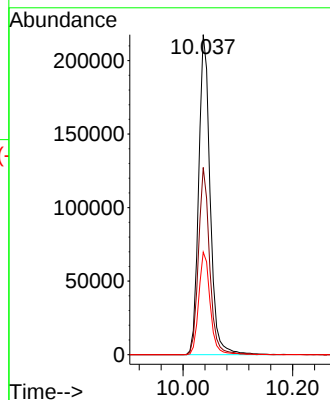
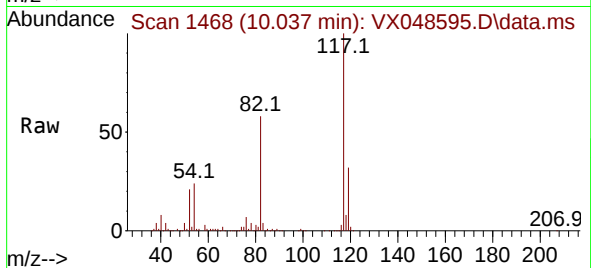
Tgt Ion:117 Resp: 316623

Ion Ratio Lower Upper

117 100

82 58.5 44.4 66.6

119 32.0 25.1 37.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX048595.D

Acq: 13 Nov 2025 15:04

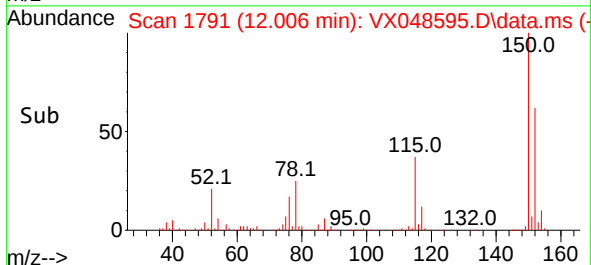
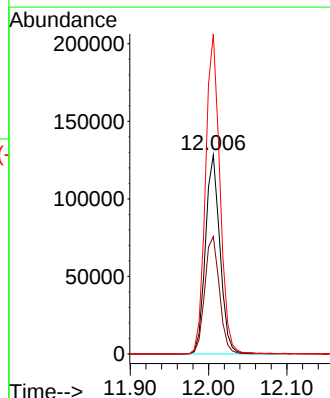
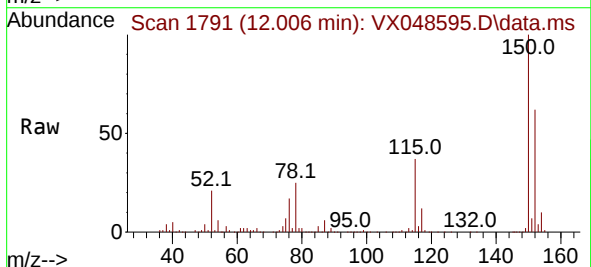
Tgt Ion:152 Resp: 164874

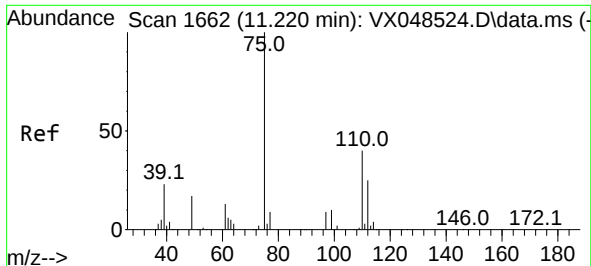
Ion Ratio Lower Upper

152 100

115 60.0 39.2 117.6

150 159.7 0.0 347.0

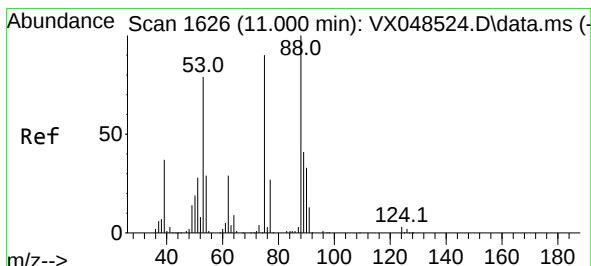
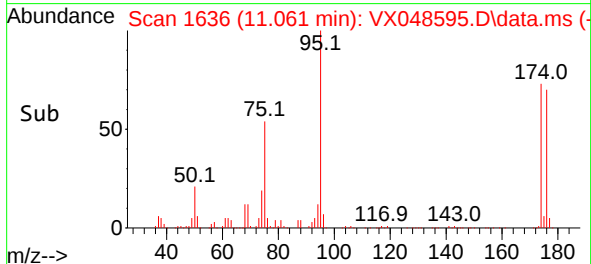
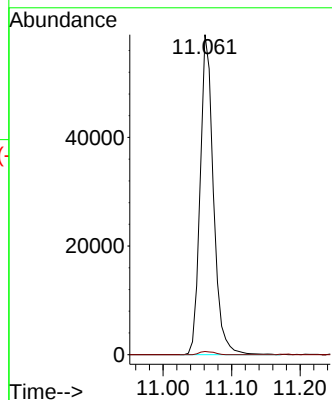
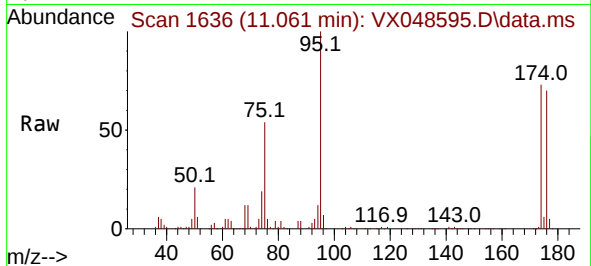




#76
1,2,3-Trichloropropane
Concen: 20.079 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX048595.D
Acq: 13 Nov 2025 15:04

Instrument :
MSVOA_X
ClientSampleId :
AU-713-COMP-04

Tgt Ion: 75 Resp: 79754
Ion Ratio Lower Upper
75 100
77 1.1 24.3 72.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 57.432 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048595.D
Acq: 13 Nov 2025 15:04

Tgt Ion: 75 Resp: 79754
Ion Ratio Lower Upper
75 100
53 0.0 72.4 108.6#
89 0.0 43.6 65.4#

