

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU012425\
 Data File : VU062990.D
 Acq On : 24 Jan 2025 14:00
 Operator : MD/SY
 Sample : Q1086-21
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 24 19:04:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR010225WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Jan 24 19:02:27 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.238	114	106908	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.405	117	80442	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.801	152	43132	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	32925	5.561	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	111.200%
7) Chloroethane-d5	1.904	69	18188	3.819	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	76.400%
11) 1,1-Dichloroethene-d2	2.557	65	9362	3.052	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.000%
20) 2-Butanone-d5	4.605	46	70213	58.021	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	116.040%
24) Chloroform-d	5.049	84	58807	4.037	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.800%
26) 1,2-Dichloroethane-d4	5.689	65	32022	4.053	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.000%
32) Benzene-d6	5.714	84	99516	5.061	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.200%
36) 1,2-Dichloropropane-d6	6.676	67	30762	5.642	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	112.800%
41) Toluene-d8	7.888	98	88691	4.630	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.600%
43) trans-1,3-Dichloroprop...	8.168	79	14141	5.203	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	104.000%
46) 2-Hexanone-d5	8.621	63	40986	47.952	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.900%
56) 1,1,2,2-Tetrachloroeth...	10.743	84	18189	3.984	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	79.600%
66) 1,2-Dichlorobenzene-d4	12.180	152	30152	4.202	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	84.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	318485	41.383	ug/L	98
12) 1,1-Dichloroethene	2.573	96	65024	9.798	ug/L #	78
16) Methylene chloride	3.033	84	41493	5.708	ug/L	88
18) trans-1,2-Dichloroethene	3.341	96	71681	10.082	ug/L	95
22) cis-1,2-Dichloroethene	4.653	96	32370	4.181	ug/L	98
27) 1,2-Dichloroethane	5.779	62	167341	16.358	ug/L	100
29) 1,1,1-Trichloroethane	5.303	97	252928	20.729	ug/L	98
31) Carbon tetrachloride	5.512	117	124555	11.107	ug/L	97
33) Benzene	5.759	78	190474	8.241	ug/L	100
34) Trichloroethene	6.531	95	73887	9.359	ug/L	94
35) Methylcyclohexane	6.679	83	7840	0.807	ug/L #	21
37) 1,2-Dichloropropane	6.779	63	66263	12.154	ug/L	98
42) Toluene	7.959	91	573215	22.634	ug/L	100
45) 1,1,2-Trichloroethane	8.389	97	33793	7.632	ug/L	94
47) Tetrachloroethene	8.540	164	64188	11.804	ug/L	98
49) Dibromochloromethane	8.540	129	64267	10.810	ug/L #	12
51) Chlorobenzene	9.434	112	159487	9.630	ug/L	99
52) Ethylbenzene	9.560	91	421272	14.658	ug/L	99
53) m,p-Xylene	9.685	106	228242	21.235	ug/L	99

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

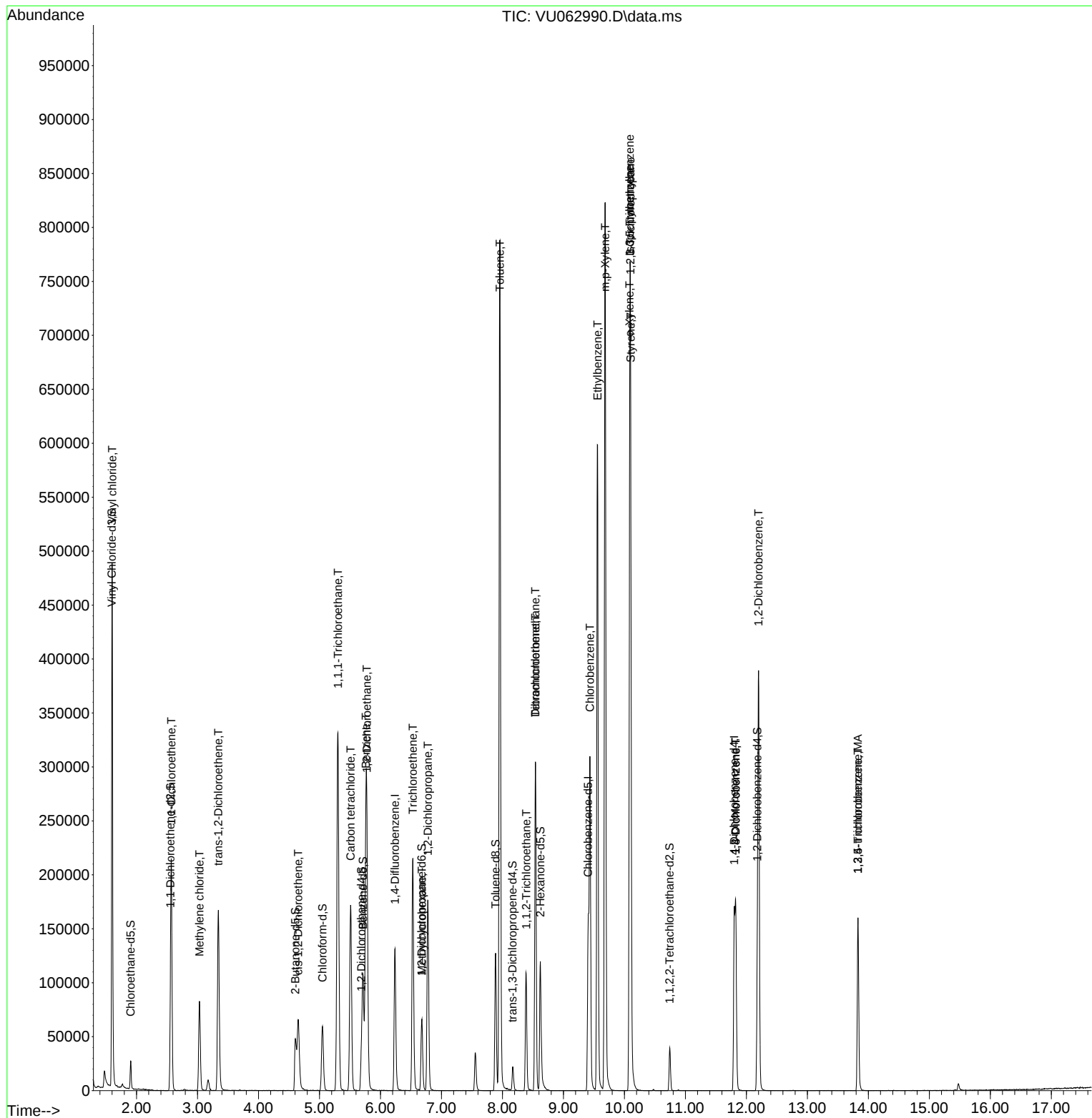
54) o-Xylene	10.087	106	132909	12.910	ug/L	96
55) Styrene	10.103	104	225867	13.116	ug/L	95
60) Isopropylbenzene	10.090	105	77937	2.622	ug/L #	1
61) 1,2,3-Trichloropropane	10.100	75	14795	3.867	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.090	105	77937	3.085	ug/L #	31
64) 1,3-Dichlorobenzene	11.823	146	67854	4.924	ug/L	99
65) 1,4-Dichlorobenzene	11.823	146	67854	4.883	ug/L	98
67) 1,2-Dichlorobenzene	12.200	146	151844	11.758	ug/L	97
69) 1,3,5-Trichlorobenzene	13.830	180	52336	5.043	ug/L	98
70) 1,2,4-trichlorobenzene	13.830	180	52336	6.261	ug/L	99

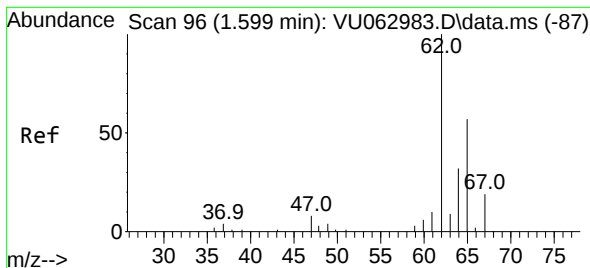
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 41.383 ug/L

RT: 1.602 min Scan# 91

Delta R.T. 0.003 min

Lab File: VU062990.D

Acq: 24 Jan 2025 14:00

Instrument :

MSVOA_U

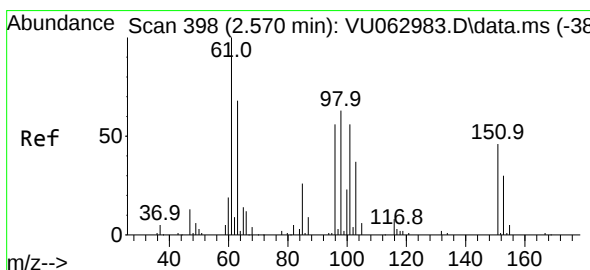
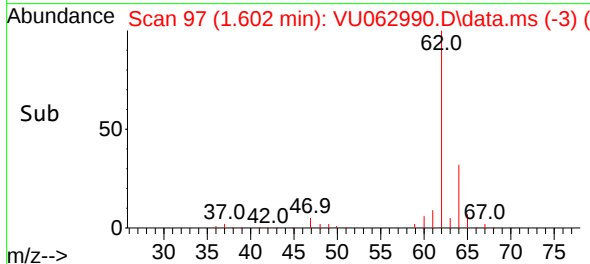
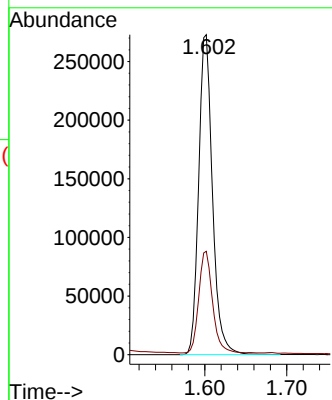
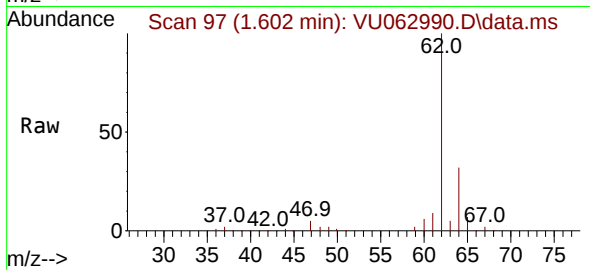
ClientSampleId :

Tgt Ion: 62 Resp: 318485

Ion Ratio Lower Upper

62 100

64 32.3 23.4 43.4



#12

1,1-Dichloroethene

Concen: 9.798 ug/L

RT: 2.573 min Scan# 399

Delta R.T. 0.003 min

Lab File: VU062990.D

Acq: 24 Jan 2025 14:00

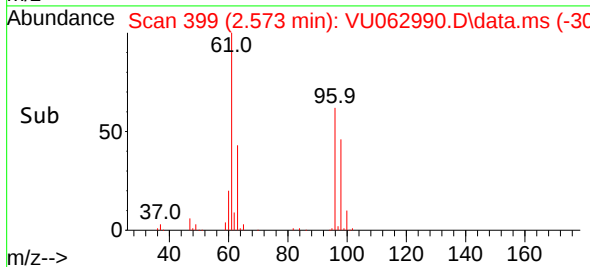
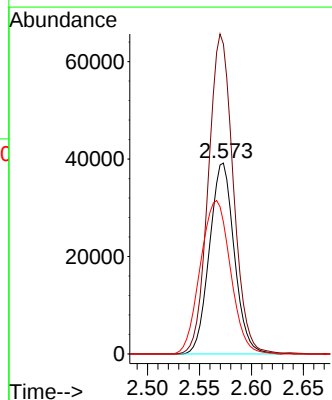
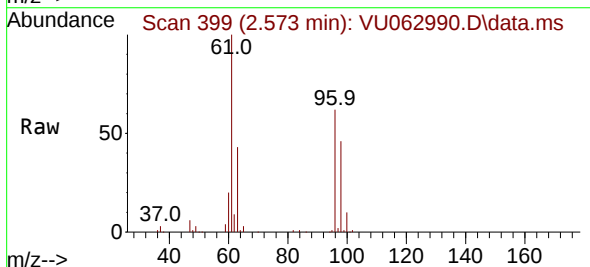
Tgt Ion: 96 Resp: 65024

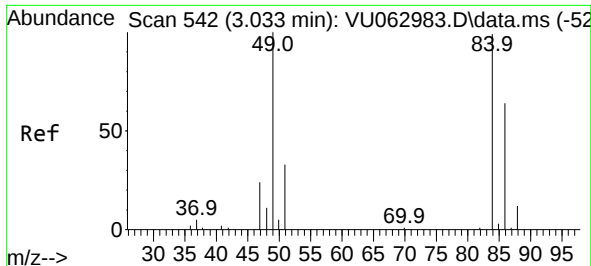
Ion Ratio Lower Upper

96 100

61 162.3 120.4 223.6

63 69.2 82.3 152.9#

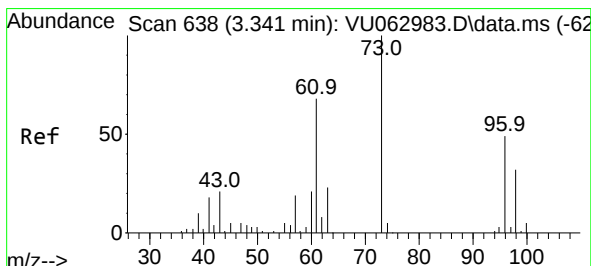
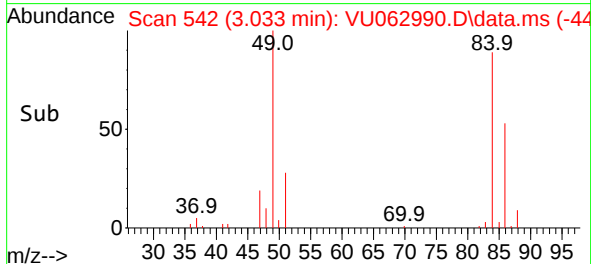
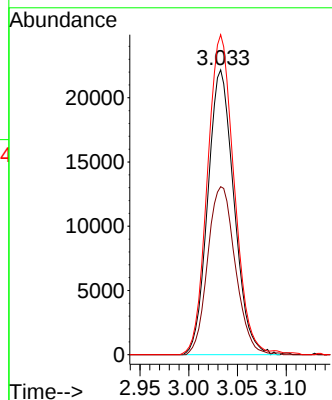
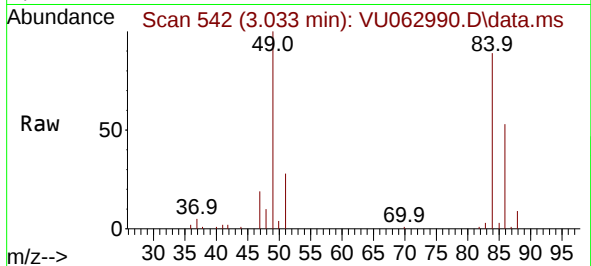




#16
Methylene chloride
Concen: 5.708 ug/L
RT: 3.033 min Scan# 54
Delta R.T. 0.000 min
Lab File: VU062990.D
Acq: 24 Jan 2025 14:00

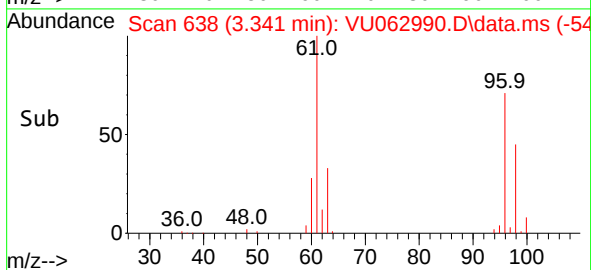
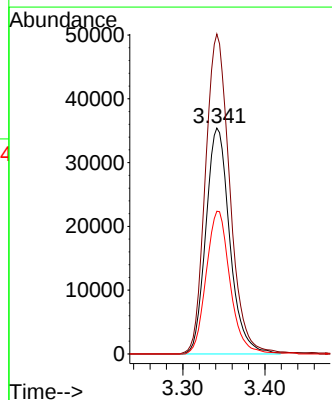
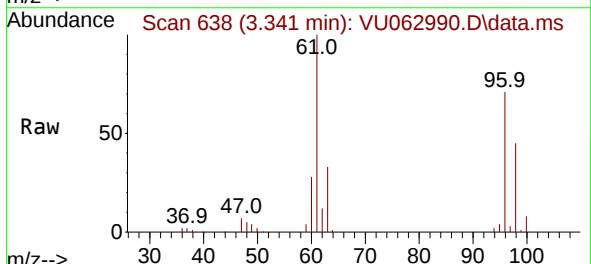
Instrument :
MSVOA_U
ClientSampleId :

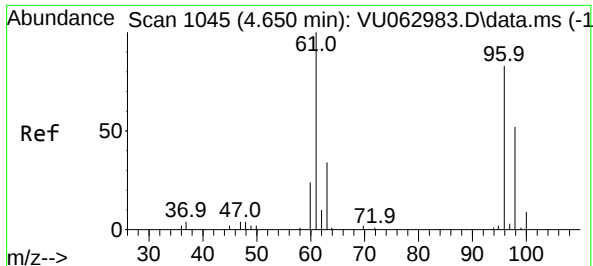
Tgt Ion: 84 Resp: 41493
Ion Ratio Lower Upper
84 100
86 59.0 44.7 83.1
49 112.3 68.3 126.9



#18
trans-1,2-Dichloroethene
Concen: 10.082 ug/L
RT: 3.341 min Scan# 638
Delta R.T. 0.000 min
Lab File: VU062990.D
Acq: 24 Jan 2025 14:00

Tgt Ion: 96 Resp: 71681
Ion Ratio Lower Upper
96 100
61 141.7 94.4 175.2
98 63.2 42.8 79.4

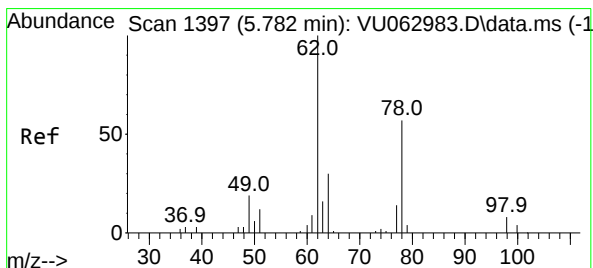
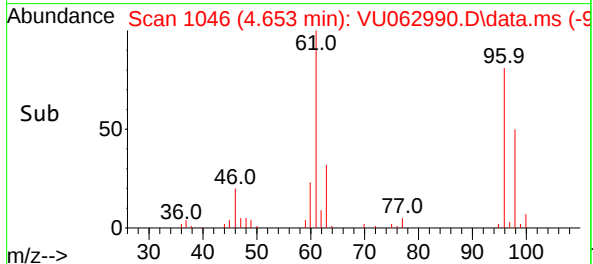
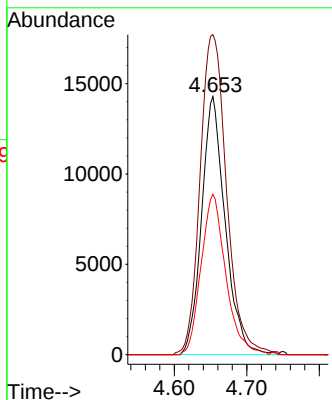
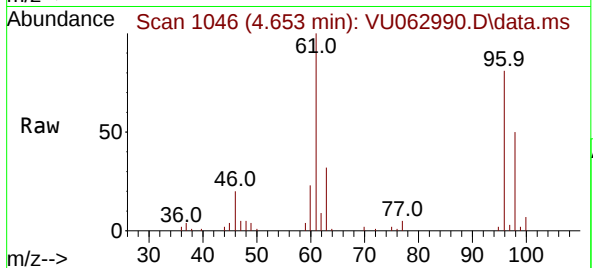




#22
 cis-1,2-Dichloroethene
 Concen: 4.181 ug/L
 RT: 4.653 min Scan# 1045
 Delta R.T. 0.003 min
 Lab File: VU062990.D
 Acq: 24 Jan 2025 14:00

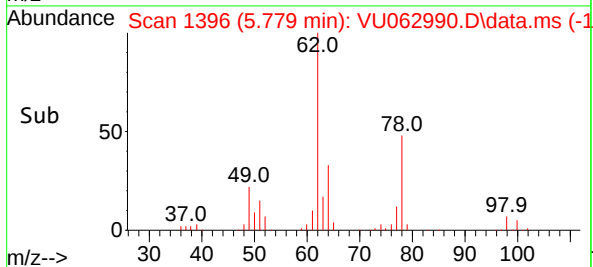
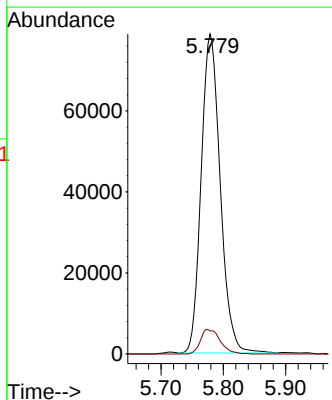
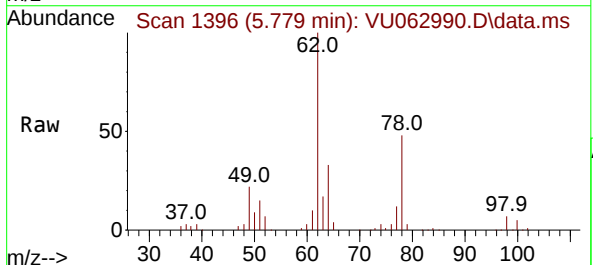
Instrument :
 MSVOA_U
 ClientSampleId :

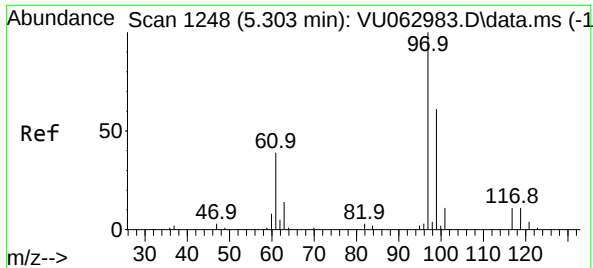
Tgt Ion: 96 Resp: 32370
 Ion Ratio Lower Upper
 96 100
 61 124.0 84.8 157.6
 98 62.1 43.1 80.1



#27
 1,2-Dichloroethane
 Concen: 16.358 ug/L
 RT: 5.779 min Scan# 1396
 Delta R.T. -0.003 min
 Lab File: VU062990.D
 Acq: 24 Jan 2025 14:00

Tgt Ion: 62 Resp: 167341
 Ion Ratio Lower Upper
 62 100
 98 7.2 5.8 8.6

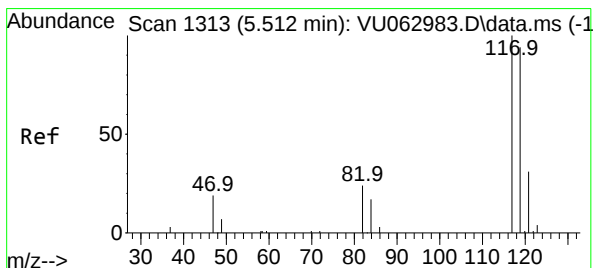
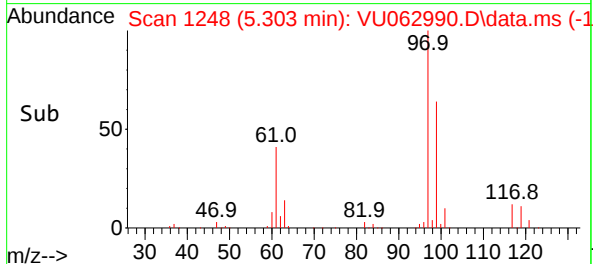
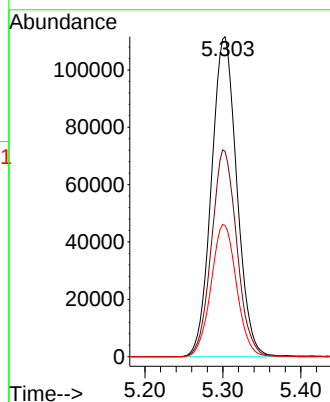
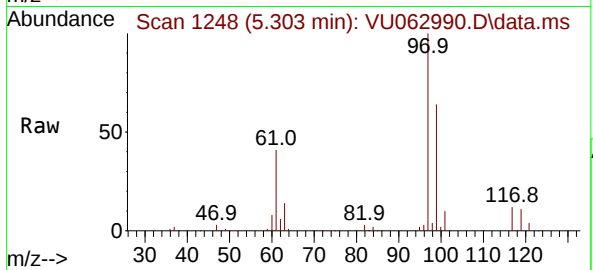




#29
1,1,1-Trichloroethane
Concen: 20.729 ug/L
RT: 5.303 min Scan# 1248
Delta R.T. 0.000 min
Lab File: VU062990.D
Acq: 24 Jan 2025 14:00

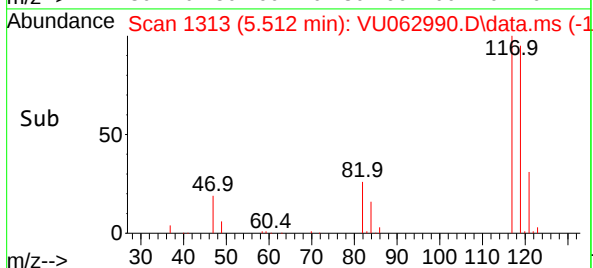
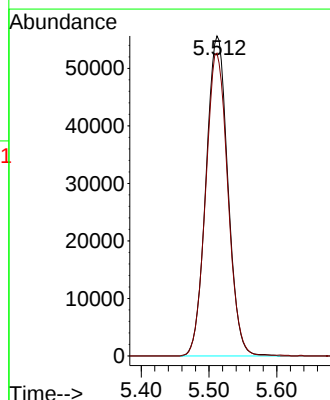
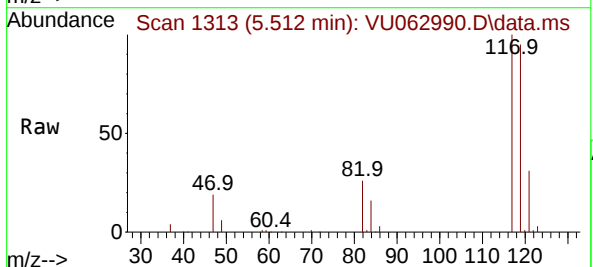
Instrument :
MSVOA_U
ClientSampleId :

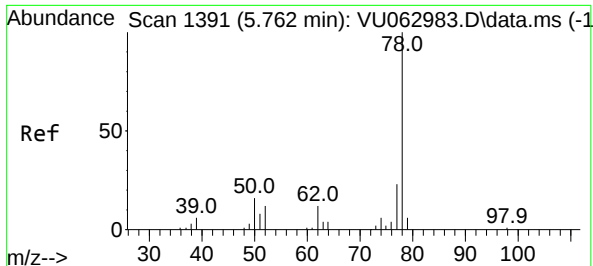
Tgt Ion: 97 Resp: 252928
Ion Ratio Lower Upper
97 100
99 64.5 52.4 78.6
61 41.5 32.2 48.4



#31
Carbon tetrachloride
Concen: 11.107 ug/L
RT: 5.512 min Scan# 1313
Delta R.T. 0.000 min
Lab File: VU062990.D
Acq: 24 Jan 2025 14:00

Tgt Ion: 117 Resp: 124555
Ion Ratio Lower Upper
117 100
119 95.8 78.6 118.0





#33

Benzene

Concen: 8.241 ug/L

RT: 5.759 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU062990.D

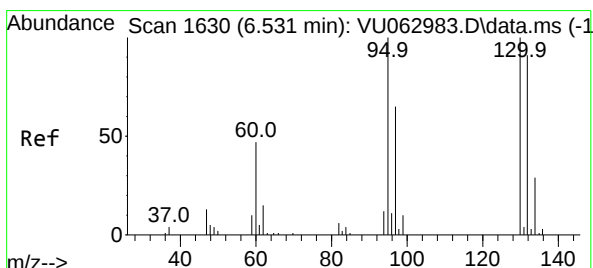
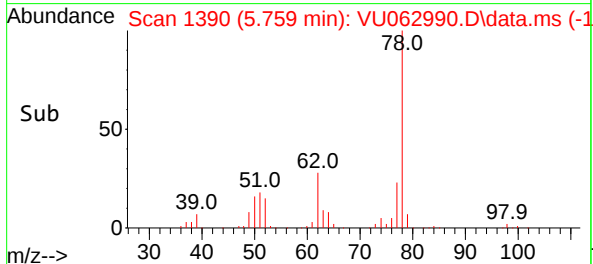
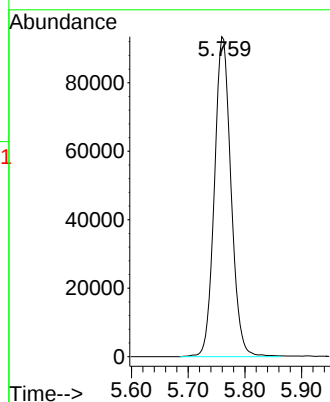
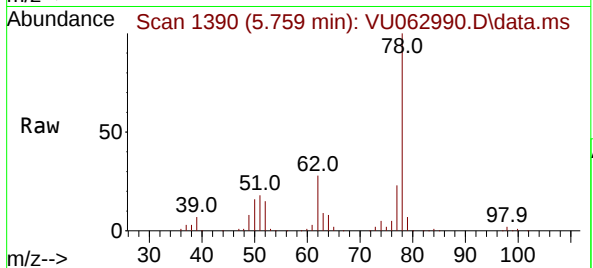
Acq: 24 Jan 2025 14:00

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 190474



#34

Trichloroethene

Concen: 9.359 ug/L

RT: 6.531 min Scan# 1630

Delta R.T. 0.000 min

Lab File: VU062990.D

Acq: 24 Jan 2025 14:00

Tgt Ion: 95 Resp: 73887

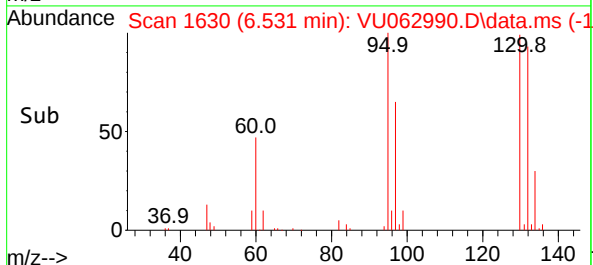
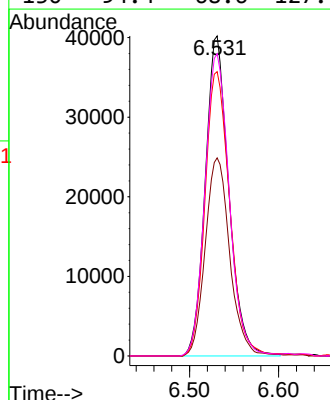
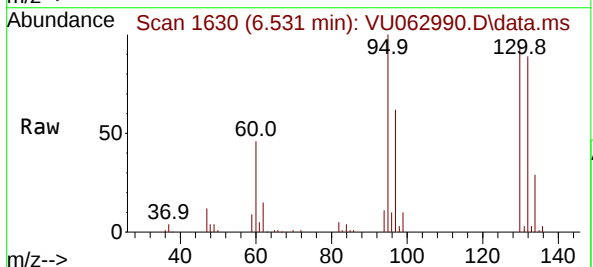
Ion Ratio Lower Upper

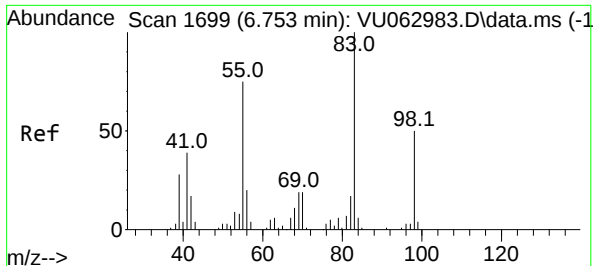
95 100

97 61.9 47.5 88.3

132 88.9 66.9 124.3

130 94.4 68.6 127.4





#35

Methylcyclohexane

Concen: 0.807 ug/L

RT: 6.679 min Scan# 1

Delta R.T. -0.074 min

Lab File: VU062990.D

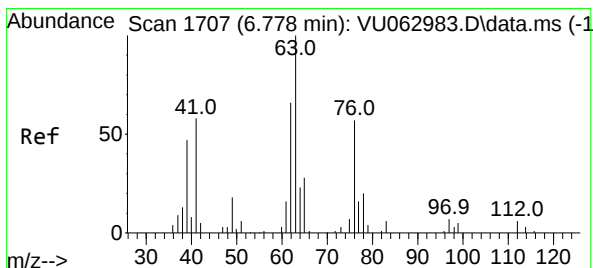
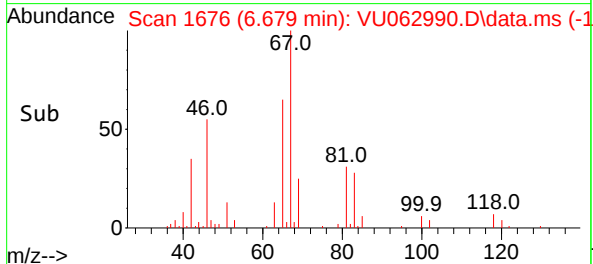
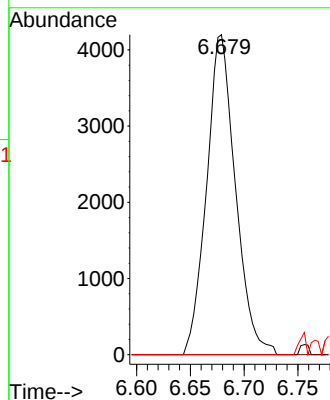
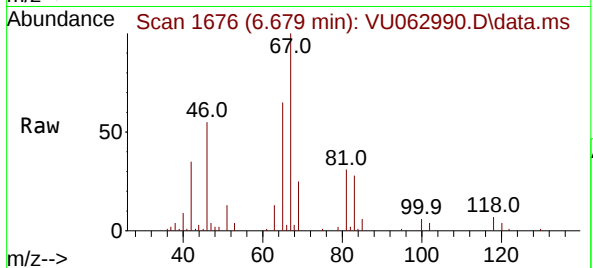
Acq: 24 Jan 2025 14:00

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	83	Resp:	7840
Ion Ratio	Lower	Upper	
83	100		
55	0.0	57.2	85.8#
98	1.5	36.6	55.0#



#37

1,2-Dichloropropane

Concen: 12.154 ug/L

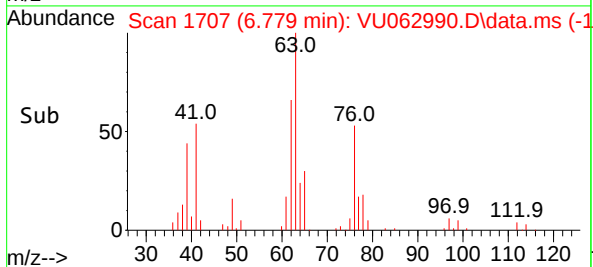
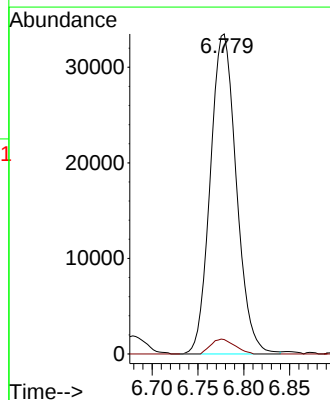
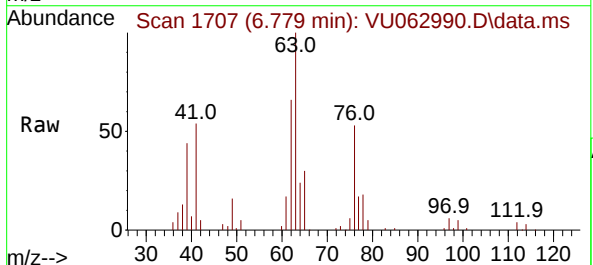
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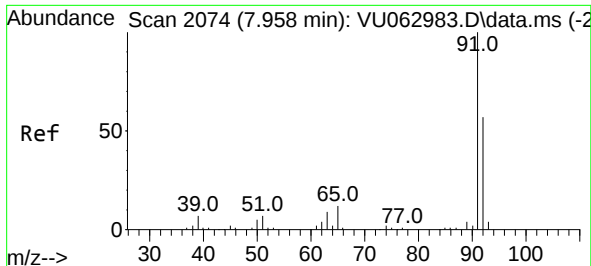
Delta R.T. 0.000 min

Lab File: VU062990.D

Acq: 24 Jan 2025 14:00

Tgt Ion:	63	Resp:	66263
Ion Ratio	Lower	Upper	
63	100		
112	4.2	3.8	5.8

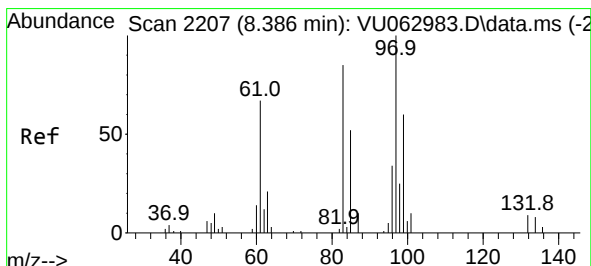
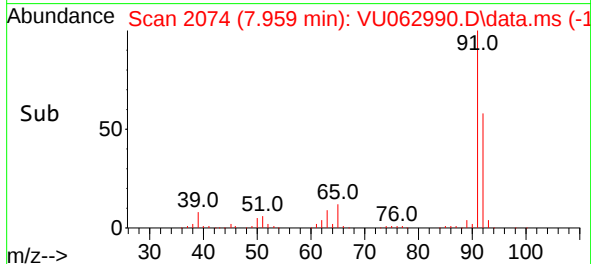
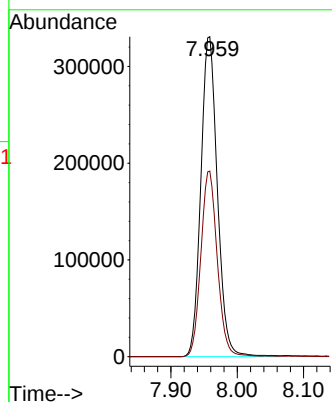
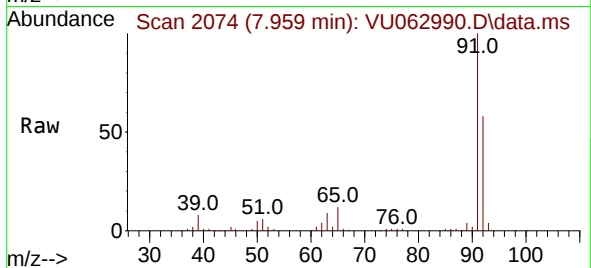




#42
Toluene
Concen: 22.634 ug/L
RT: 7.959 min Scan# 2074
Delta R.T. 0.000 min
Lab File: VU062990.D
Acq: 24 Jan 2025 14:00

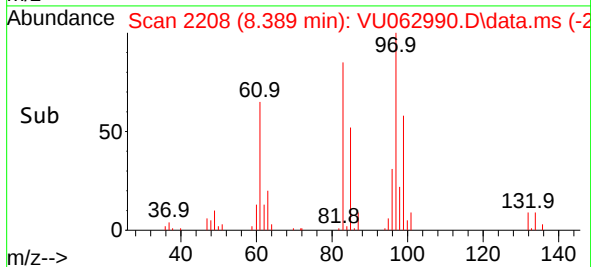
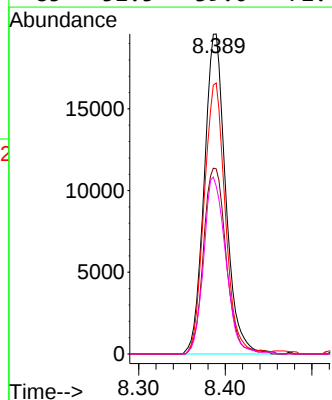
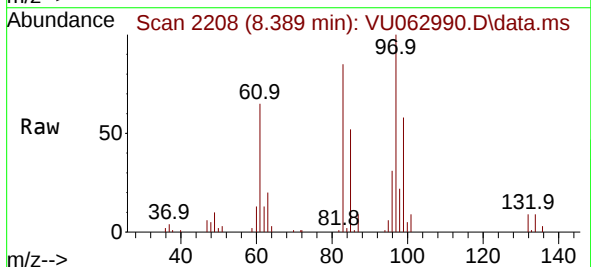
Instrument :
MSVOA_U
ClientSampleId :

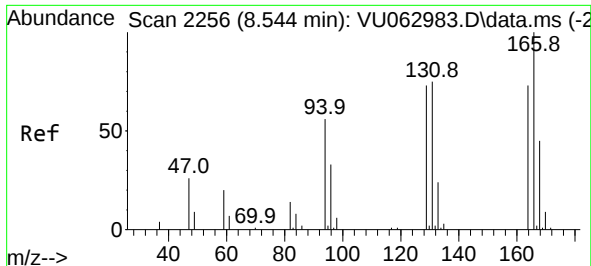
Tgt Ion: 91 Resp: 573215
Ion Ratio Lower Upper
91 100
92 58.0 40.4 75.0



#45
1,1,2-Trichloroethane
Concen: 7.632 ug/L
RT: 8.389 min Scan# 2208
Delta R.T. 0.003 min
Lab File: VU062990.D
Acq: 24 Jan 2025 14:00

Tgt Ion: 97 Resp: 33793
Ion Ratio Lower Upper
97 100
99 57.9 45.6 84.6
83 84.7 63.0 117.0
85 52.5 39.0 72.4





#47

Tetrachloroethene

Concen: 11.804 ug/L

RT: 8.540 min Scan# 2255

Delta R.T. -0.003 min

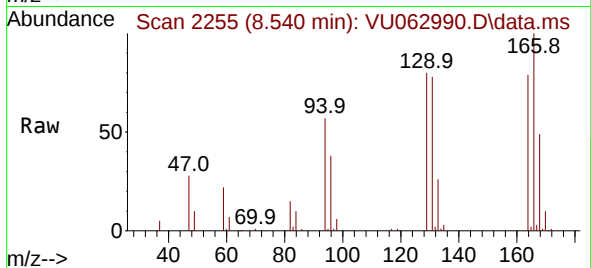
Lab File: VU062990.D

Acq: 24 Jan 2025 14:00

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 64188

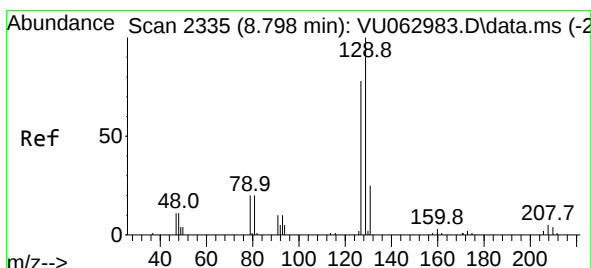
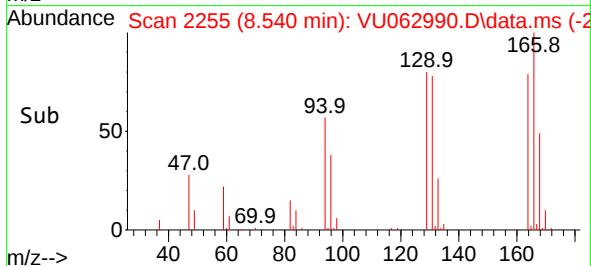
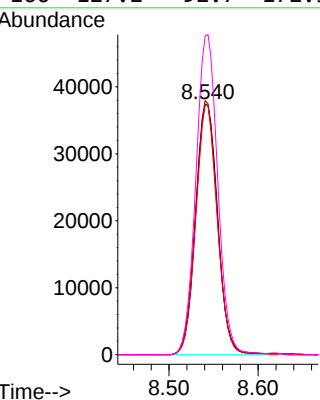
Ion Ratio Lower Upper

164 100

129 101.3 71.0 131.9

131 99.8 69.4 129.0

166 127.2 92.7 172.3



#49

Dibromochloromethane

Concen: 10.810 ug/L

RT: 8.540 min Scan# 2255

Delta R.T. -0.257 min

Lab File: VU062990.D

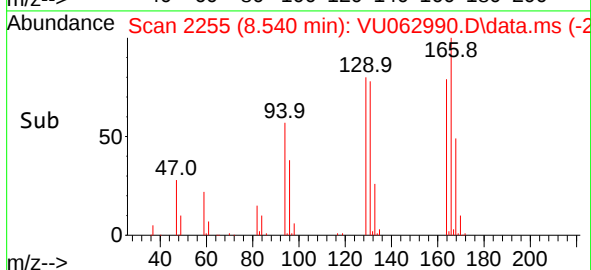
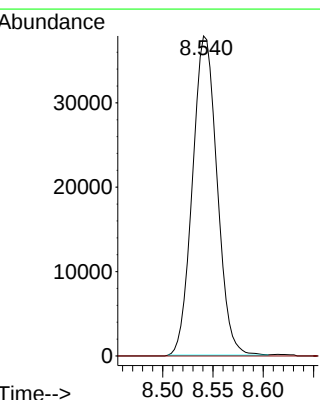
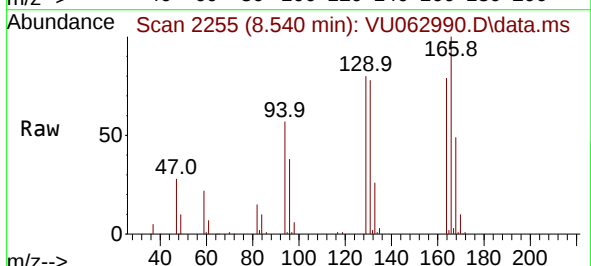
Acq: 24 Jan 2025 14:00

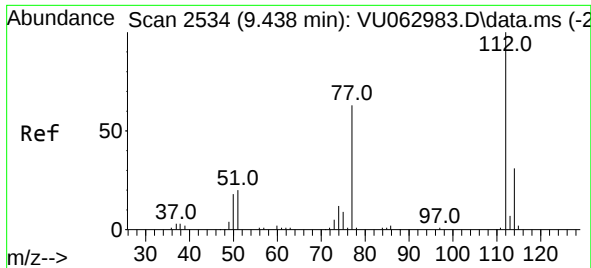
Tgt Ion:129 Resp: 64267

Ion Ratio Lower Upper

129 100

127 0.0 52.1 96.9#

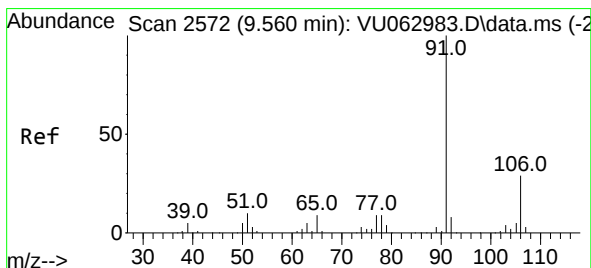
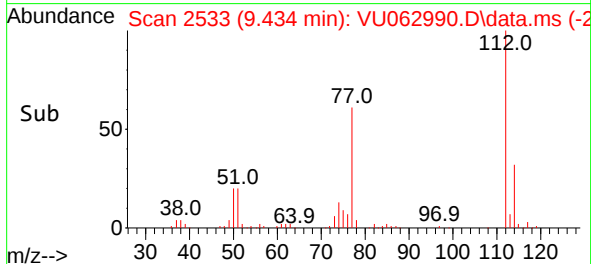
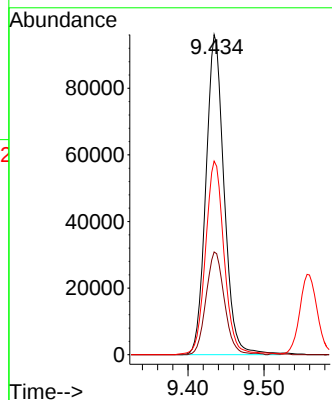
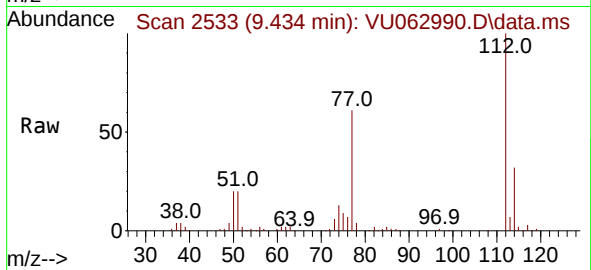




#51
Chlorobenzene
Concen: 9.630 ug/L
RT: 9.434 min Scan# 2534
Delta R.T. -0.003 min
Lab File: VU062990.D
Acq: 24 Jan 2025 14:00

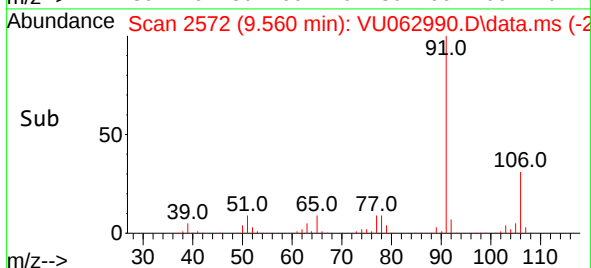
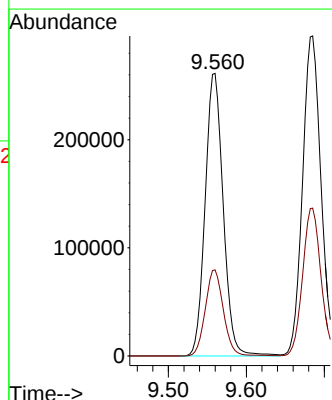
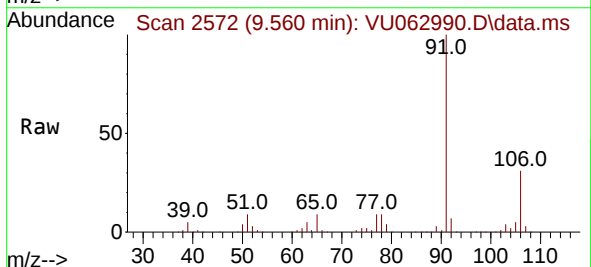
Instrument :
MSVOA_U
ClientSampleId :

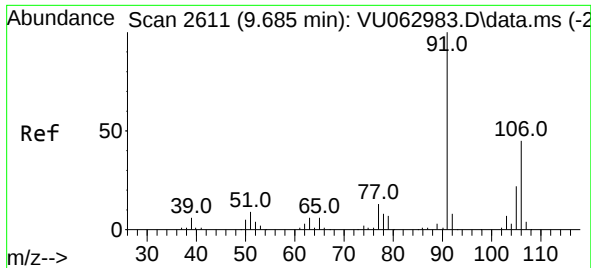
Tgt Ion:112 Resp: 159487
Ion Ratio Lower Upper
112 100
114 32.1 21.7 40.3
77 60.5 48.6 73.0



#52
Ethylbenzene
Concen: 14.658 ug/L
RT: 9.560 min Scan# 2572
Delta R.T. 0.000 min
Lab File: VU062990.D
Acq: 24 Jan 2025 14:00

Tgt Ion: 91 Resp: 421272
Ion Ratio Lower Upper
91 100
106 30.5 21.9 40.7

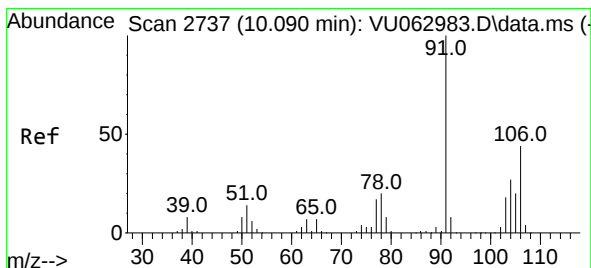
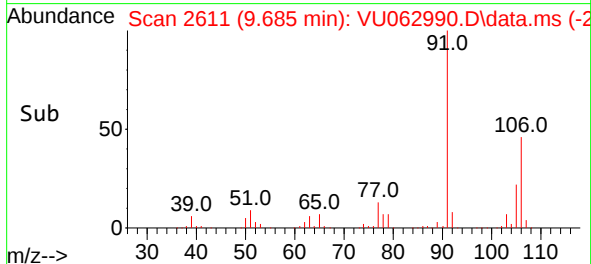
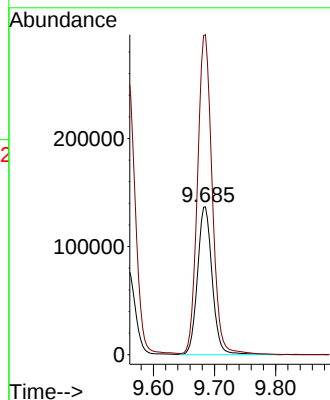
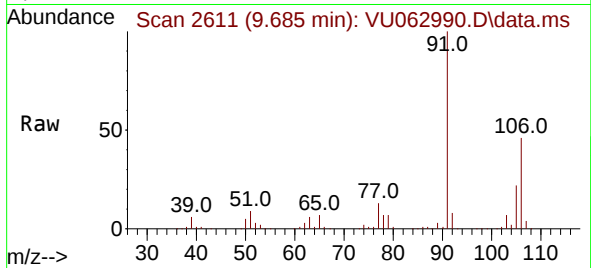




#53
m,p-Xylene
Concen: 21.235 ug/L
RT: 9.685 min Scan# 2611
Delta R.T. 0.000 min
Lab File: VU062990.D
Acq: 24 Jan 2025 14:00

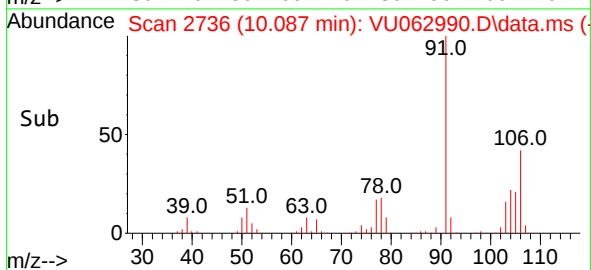
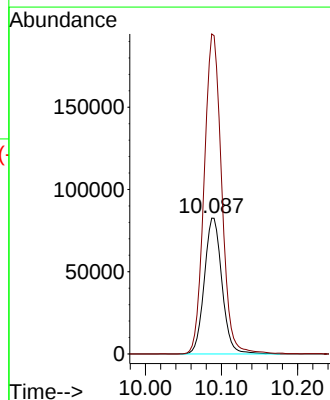
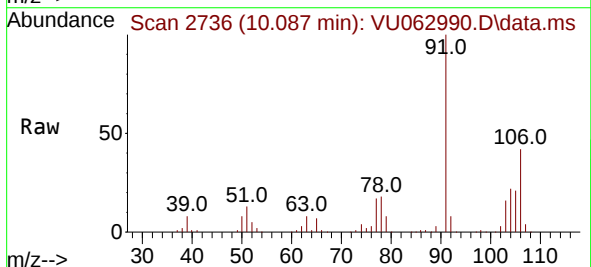
Instrument :
MSVOA_U
ClientSampleId :

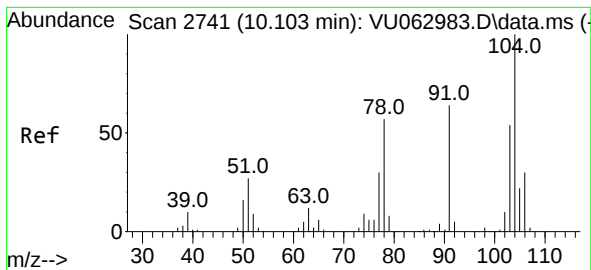
Tgt Ion:106 Resp: 228242
Ion Ratio Lower Upper
106 100
91 216.4 153.1 284.3



#54
o-Xylene
Concen: 12.910 ug/L
RT: 10.087 min Scan# 2736
Delta R.T. -0.003 min
Lab File: VU062990.D
Acq: 24 Jan 2025 14:00

Tgt Ion:106 Resp: 132909
Ion Ratio Lower Upper
106 100
91 235.6 160.4 297.8





#55

Styrene

Concen: 13.116 ug/L

RT: 10.103 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU062990.D

Acq: 24 Jan 2025 14:00

Instrument :

MSVOA_U

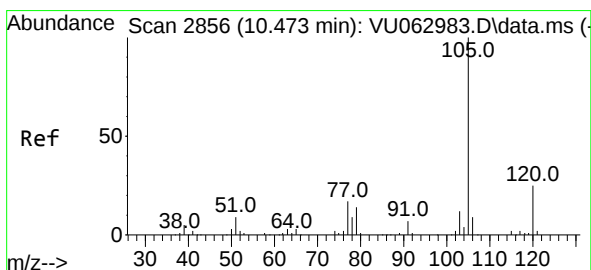
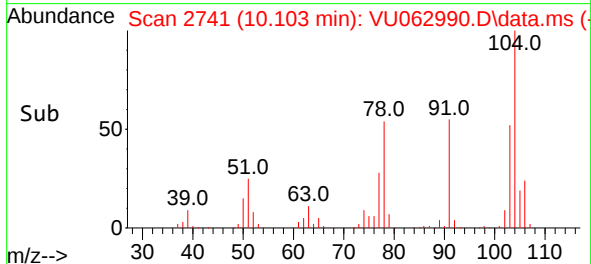
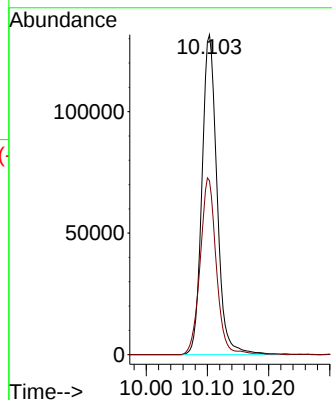
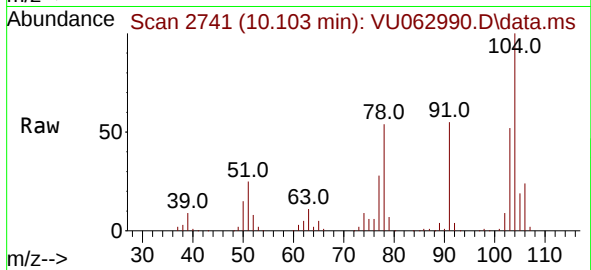
ClientSampleId :

Tgt Ion:104 Resp: 225867

Ion Ratio Lower Upper

104 100

78 54.3 35.5 65.9



#60

Isopropylbenzene

Concen: 2.622 ug/L

RT: 10.090 min Scan# 2737

Delta R.T. -0.383 min

Lab File: VU062990.D

Acq: 24 Jan 2025 14:00

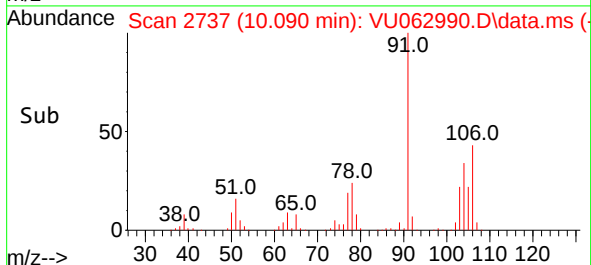
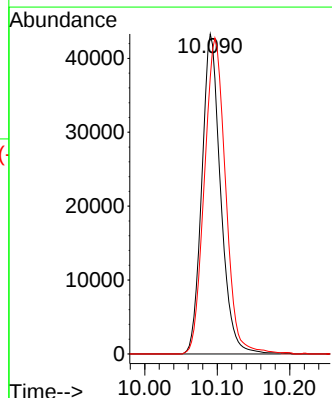
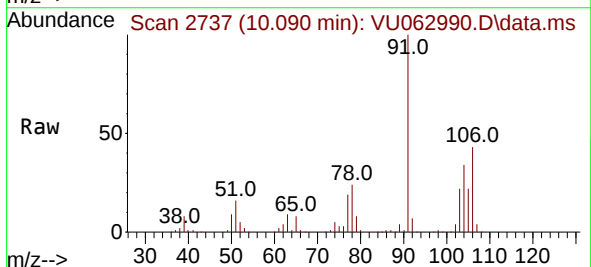
Tgt Ion:105 Resp: 77937

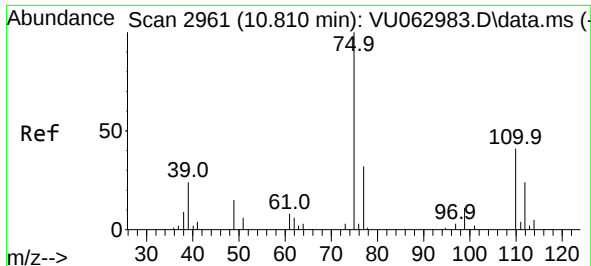
Ion Ratio Lower Upper

105 100

120 0.0 20.2 30.2#

77 111.2 13.0 19.4#

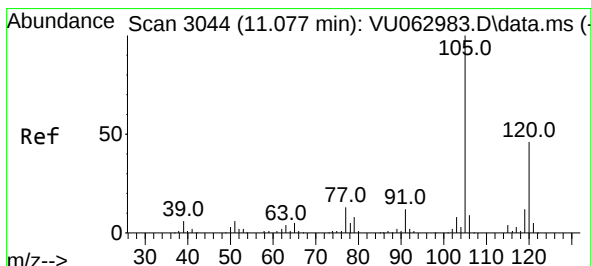
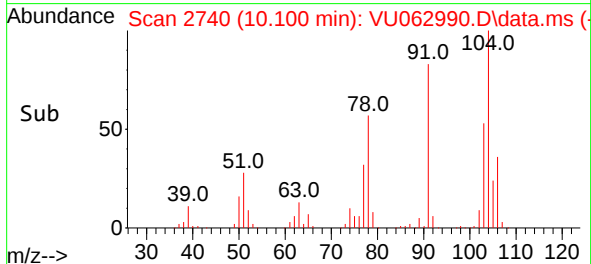
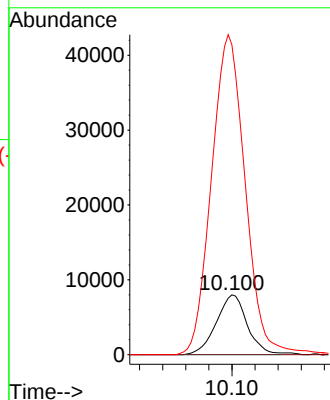
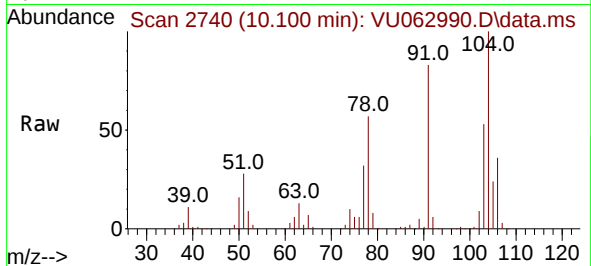




#61
 1,2,3-Trichloropropane
 Concen: 3.867 ug/L
 RT: 10.100 min Scan# 21
 Delta R.T. -0.711 min
 Lab File: VU062990.D
 Acq: 24 Jan 2025 14:00

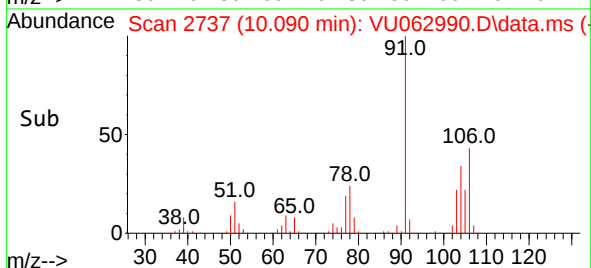
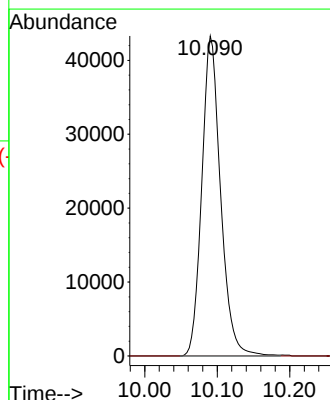
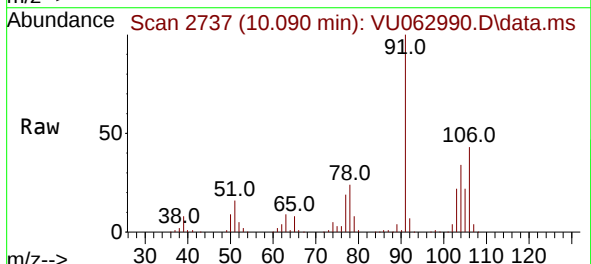
Instrument :
 MSVOA_U
 ClientSampleId :

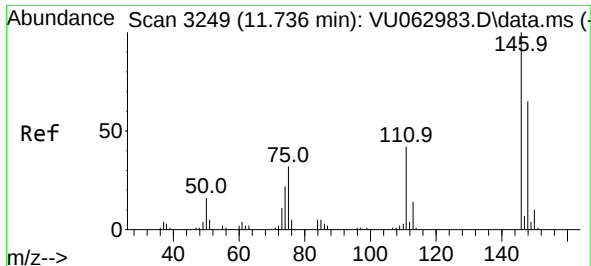
Tgt Ion: 75 Resp: 14795
 Ion Ratio Lower Upper
 75 100
 110 0.0 33.2 49.8#
 77 585.9 25.9 38.9#



#62
 1,3,5-Trimethylbenzene
 Concen: 3.085 ug/L
 RT: 10.090 min Scan# 2737
 Delta R.T. -0.987 min
 Lab File: VU062990.D
 Acq: 24 Jan 2025 14:00

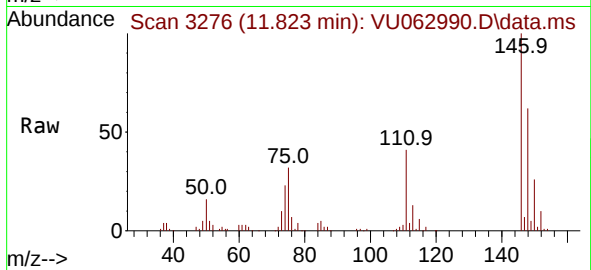
Tgt Ion: 105 Resp: 77937
 Ion Ratio Lower Upper
 105 100
 120 0.0 35.9 53.9#



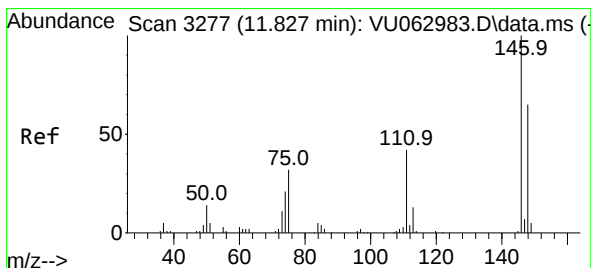
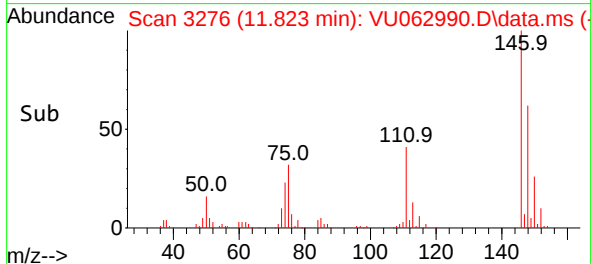
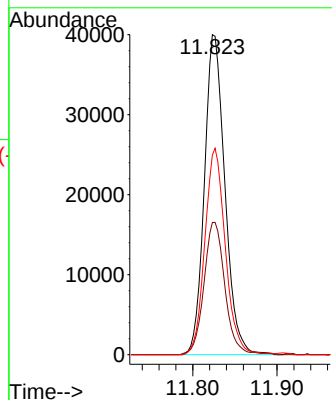


#64
1,3-Dichlorobenzene
Concen: 4.924 ug/L
RT: 11.823 min Scan# 31
Delta R.T. 0.087 min
Lab File: VU062990.D
Acq: 24 Jan 2025 14:00

Instrument :
MSVOA_U
ClientSampleId :

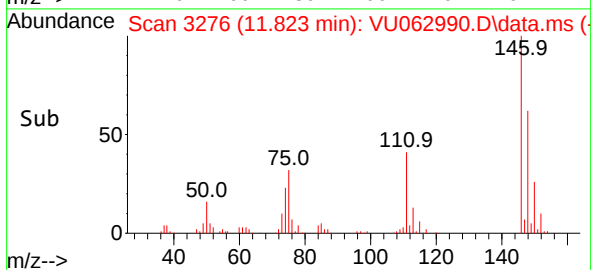
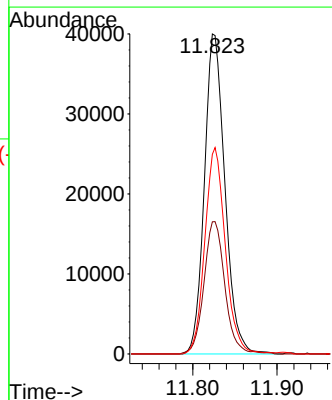
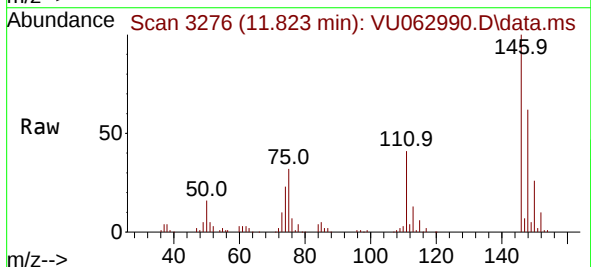


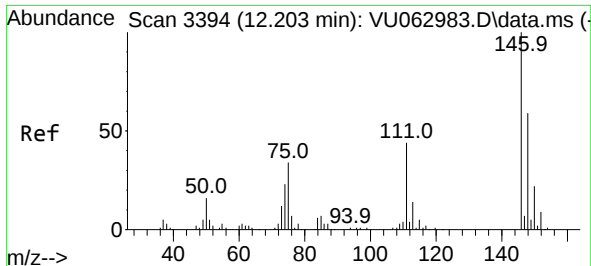
Tgt Ion:146 Resp: 67854
Ion Ratio Lower Upper
146 100
111 41.3 28.6 53.0
148 62.4 44.0 81.6



#65
1,4-Dichlorobenzene
Concen: 4.883 ug/L
RT: 11.823 min Scan# 3276
Delta R.T. -0.003 min
Lab File: VU062990.D
Acq: 24 Jan 2025 14:00

Tgt Ion:146 Resp: 67854
Ion Ratio Lower Upper
146 100
111 41.3 29.5 54.9
148 62.4 45.1 83.9





#67

1,2-Dichlorobenzene

Concen: 11.758 ug/L

RT: 12.200 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU062990.D

Acq: 24 Jan 2025 14:00

Instrument :

MSVOA_U

ClientSampleId :

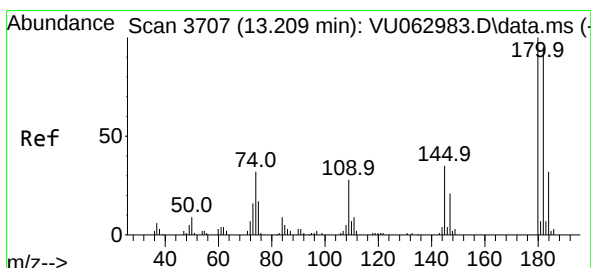
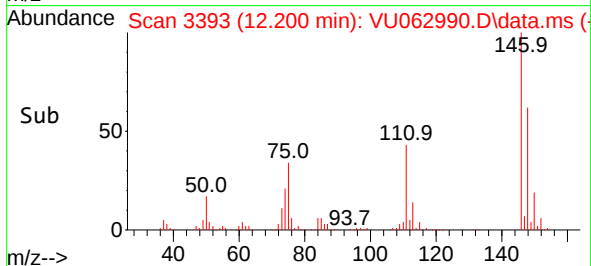
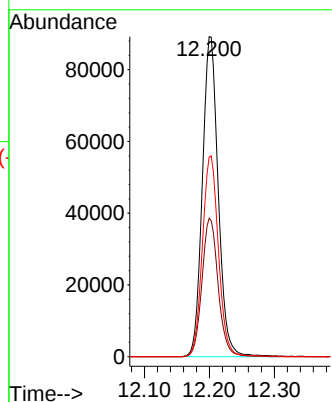
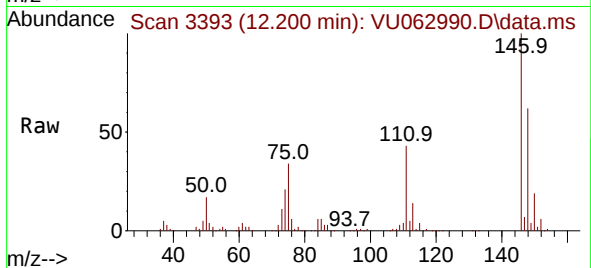
Tgt Ion:146 Resp: 151844

Ion Ratio Lower Upper

146 100

111 43.3 36.3 54.5

148 62.4 52.0 78.0



#69

1,3,5-Trichlorobenzene

Concen: 5.043 ug/L

RT: 13.830 min Scan# 3900

Delta R.T. 0.621 min

Lab File: VU062990.D

Acq: 24 Jan 2025 14:00

Tgt Ion:180 Resp: 52336

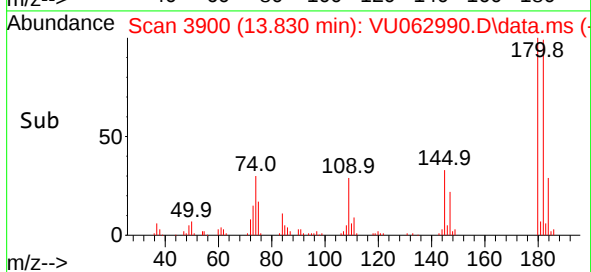
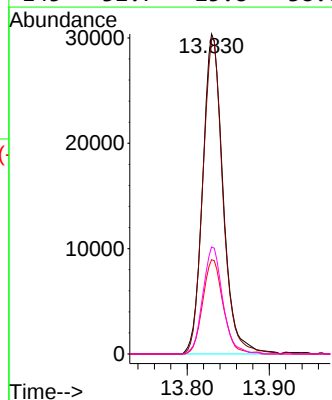
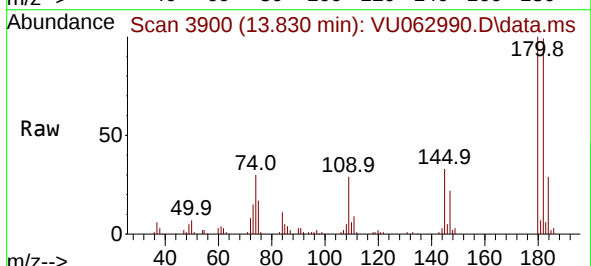
Ion Ratio Lower Upper

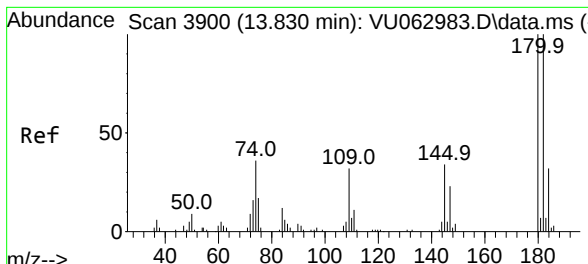
180 100

182 97.4 75.8 113.8

184 29.4 24.7 37.1

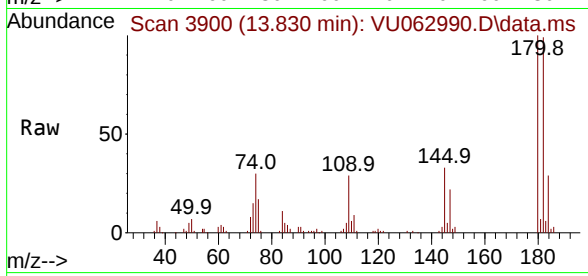
145 32.7 25.8 38.6





#70
 1,2,4-trichlorobenzene
 Concen: 6.261 ug/L
 RT: 13.830 min Scan# 3900
 Delta R.T. 0.000 min
 Lab File: VU062990.D
 Acq: 24 Jan 2025 14:00

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	180	Resp:	52336
Ion Ratio	Lower	Upper	
180	100		
182	97.4	77.1	115.7
145	32.7	26.9	40.3

