

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 :
 C0AD4

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
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
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
54) o-Xylene	10.087	106	132909	12.910	ug/L	96
55) Styrene	10.103	104	225867	13.116	ug/L	95

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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

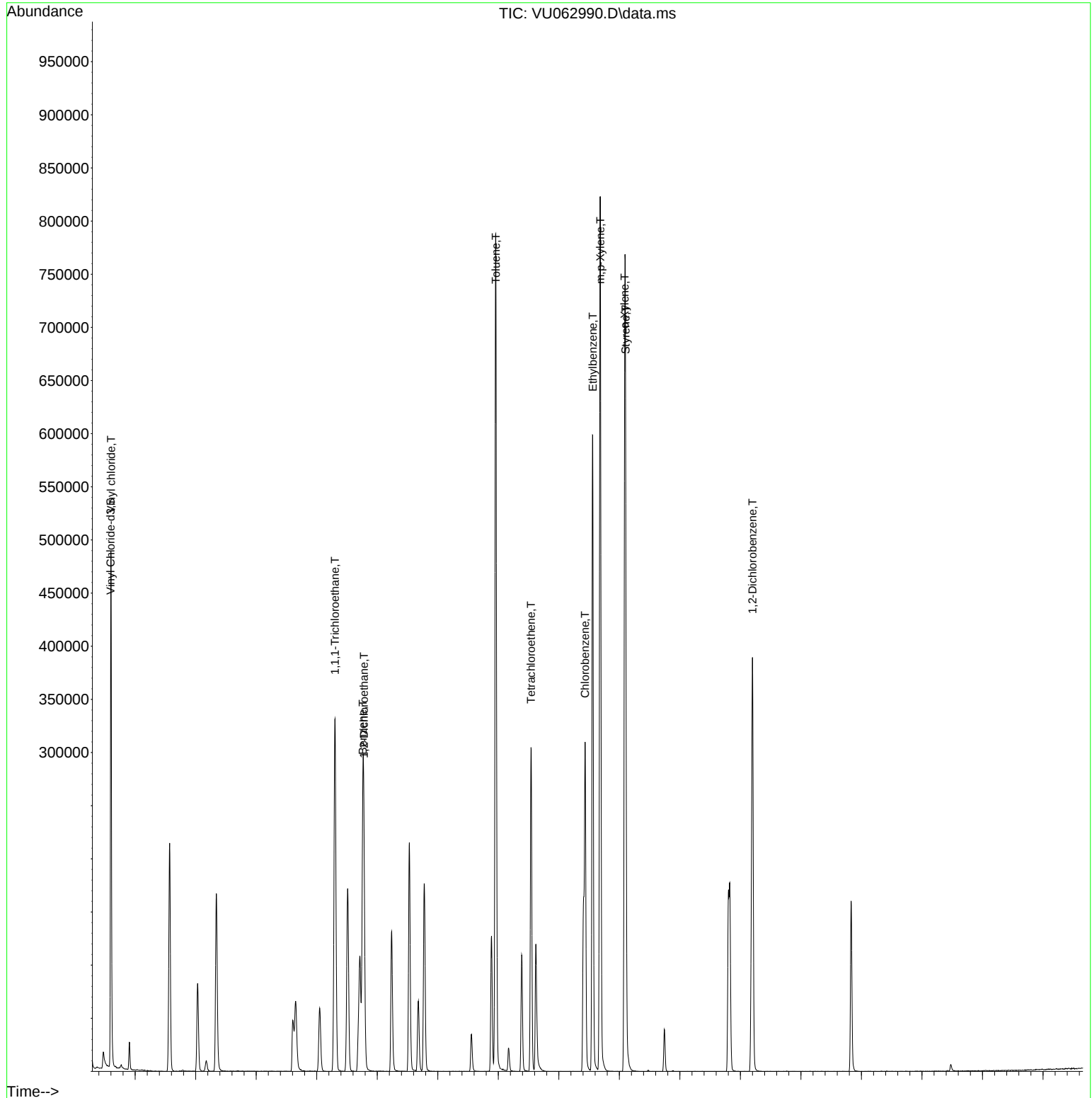
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
65)	1,4-Dichlorobenzene	11.823	146	67854	4.883 ug/L	98
67)	1,2-Dichlorobenzene	12.200	146	151844	11.758 ug/L	97
70)	1,2,4-trichlorobenzene	13.830	180	52336	6.261 ug/L	99

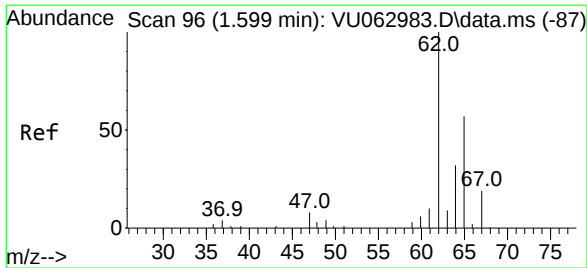
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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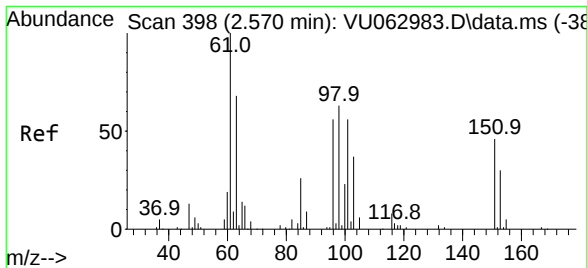
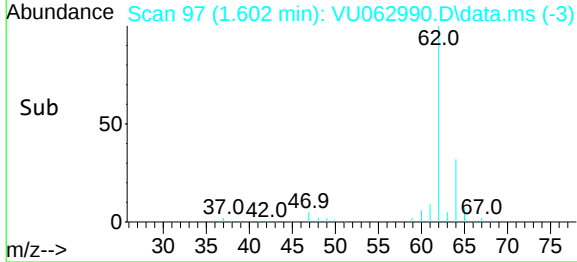
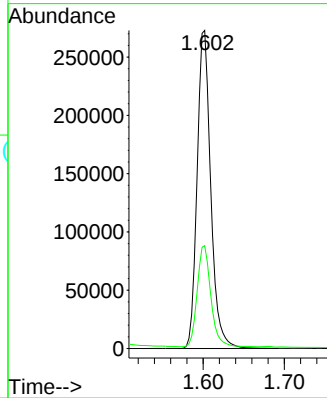
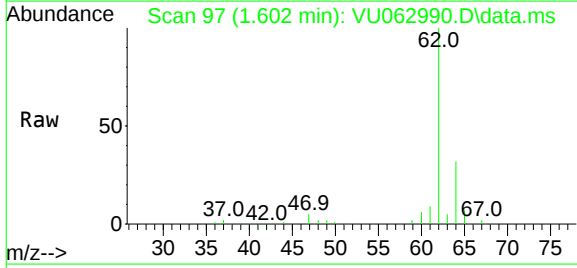




#5
 Vinyl chloride
 Concen: 41.383 ug/L
 RT: 1.602 min Scan# 97
 Delta R.T. 0.003 min
 Lab File: VU062990.D
 Acq: 24 Jan 2025 14:00

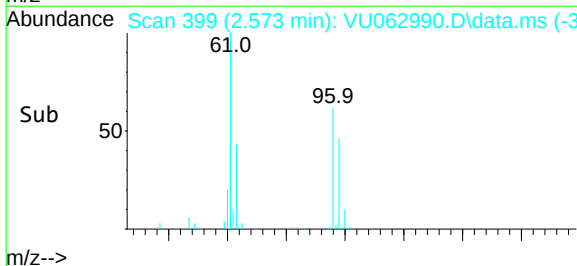
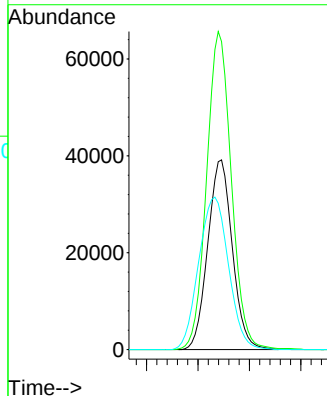
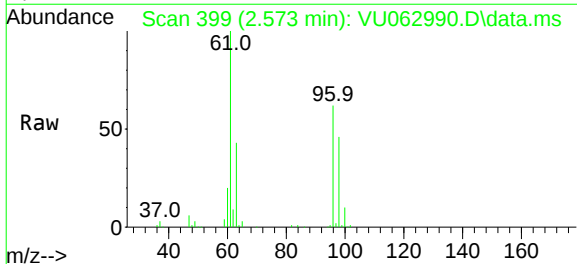
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AD4

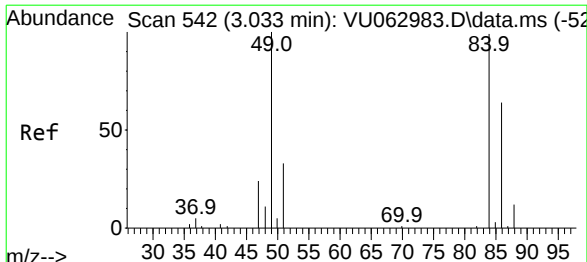
Tgt Ion: 62 Resp: 318485
 Ion Ratio Lower Upper
 62 100
 64 32.3 23.4 43.4



#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

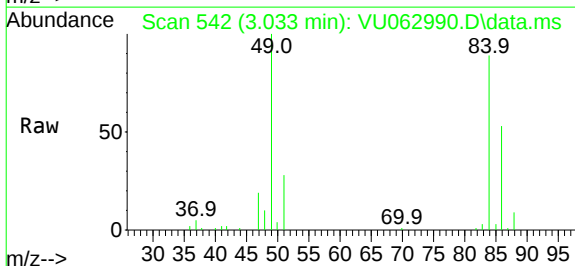
Tgt Ion: 96 Resp: 65024
 Ion Ratio Lower Upper
 96 100
 61 162.3 120.4 223.6
 63 69.2 82.3 152.9#



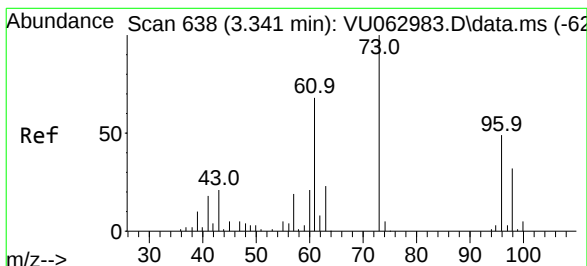
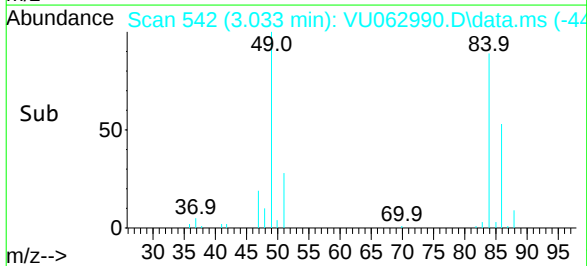
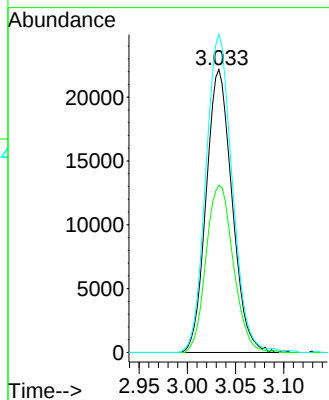


#16
Methylene chloride
Concen: 5.708 ug/L
RT: 3.033 min Scan# 54
Delta R.T. 0.000 min
Lab File: VU062990.D
Acq: 24 Jan 2025 14:00

Instrument :
MSVOA_U
ClientSampleId :
C0AD4

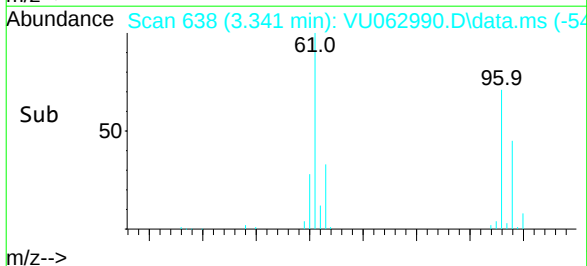
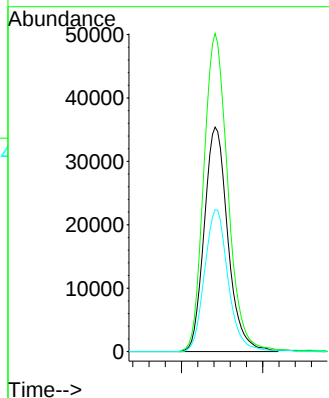
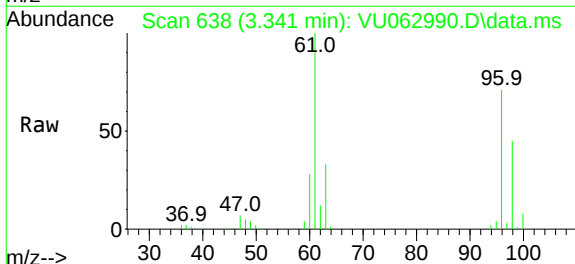


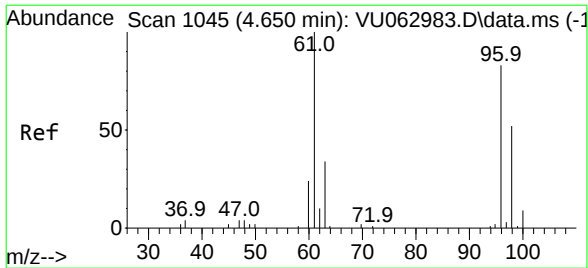
Tgt Ion:	84	Resp:	41493
Ion	Ratio	Lower	Upper
84	100		
86	59.0	44.7	83.1
49	112.3	68.3	126.9



#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

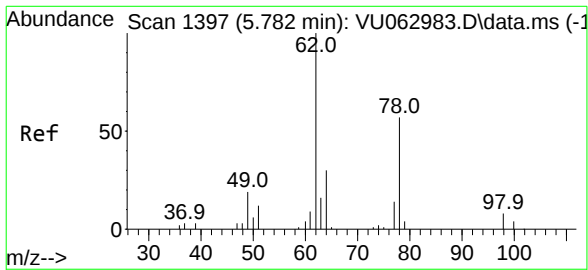
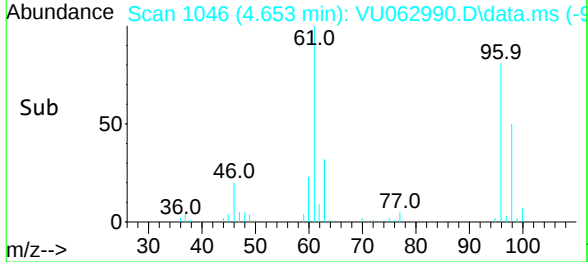
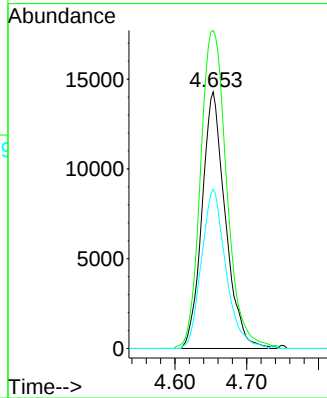
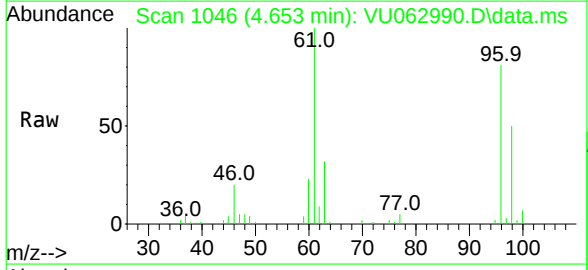




#22
 cis-1,2-Dichloroethene
 Concen: 4.181 ug/L
 RT: 4.653 min Scan# 1045
 Delta R.T. 0.003 min
 Lab File: VU062990.D
 Acq: 24 Jan 2025 14:00

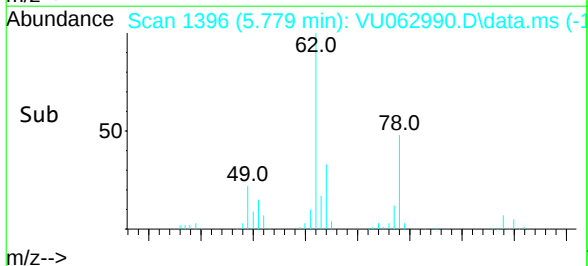
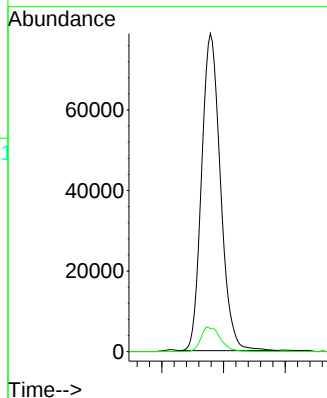
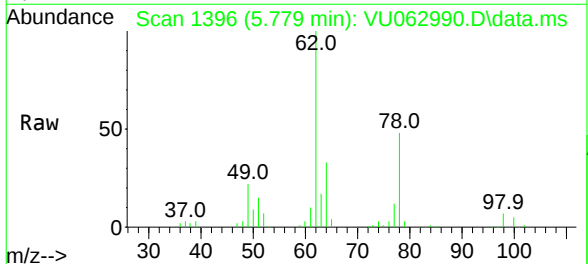
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AD4

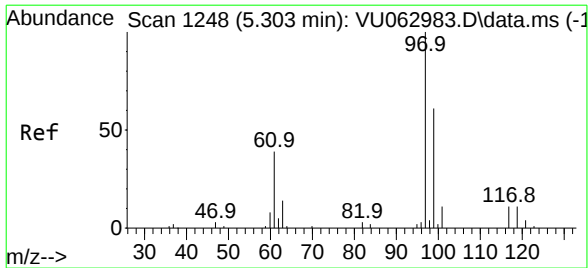
Tgt Ion:	96	Resp:	32370
Ion	Ratio	Lower	Upper
96	100		
61	124.0	84.8	157.6
98	62.1	43.1	80.1



#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

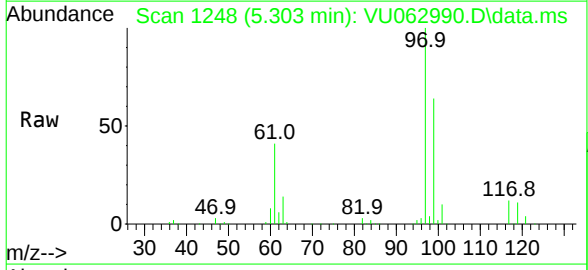
Tgt Ion:	62	Resp:	167341
Ion	Ratio	Lower	Upper
62	100		
98	7.2	5.8	8.6





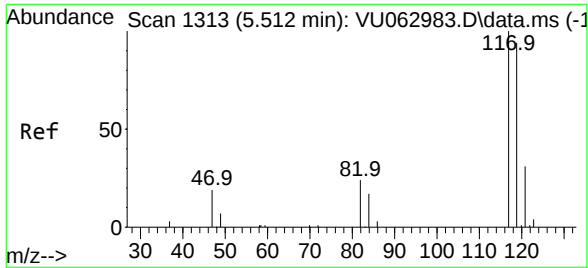
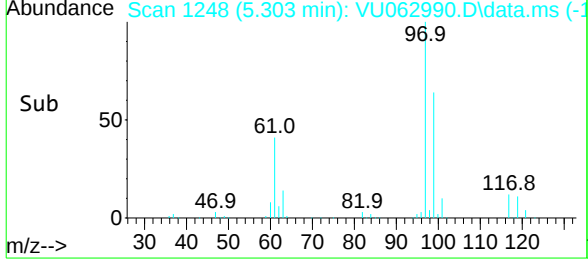
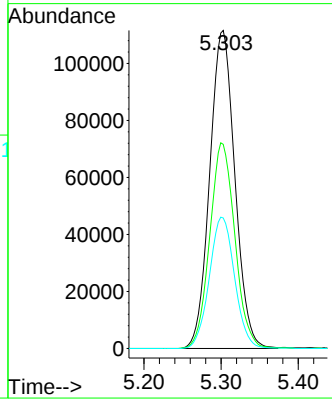
#29
 1,1,1-Trichloroethane
 Concen: 20.729 ug/L
 RT: 5.303 min Scan# 1248
 Delta R.T. 0.000 min
 Lab File: VU062990.D
 Acq: 24 Jan 2025 14:00

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AD4



Tgt Ion: 97 Resp: 252928

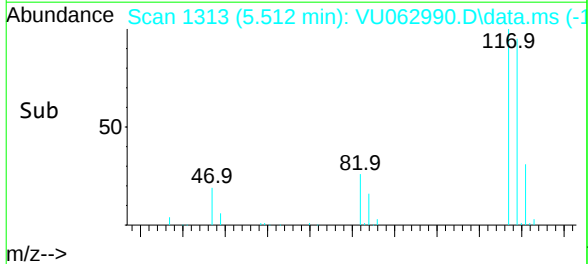
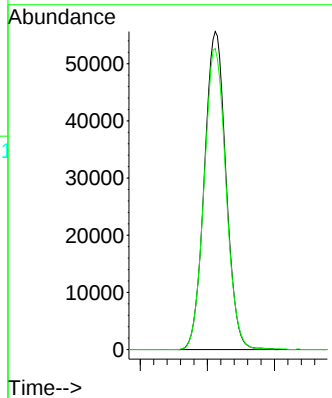
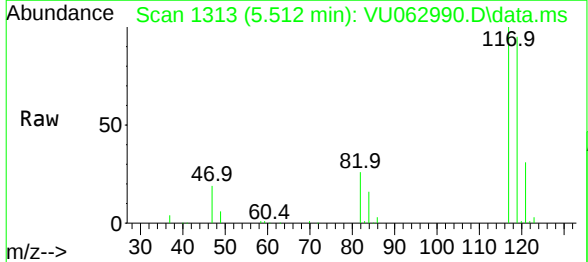
Ion	Ratio	Lower	Upper
97	100		
99	64.5	52.4	78.6
61	41.5	32.2	48.4

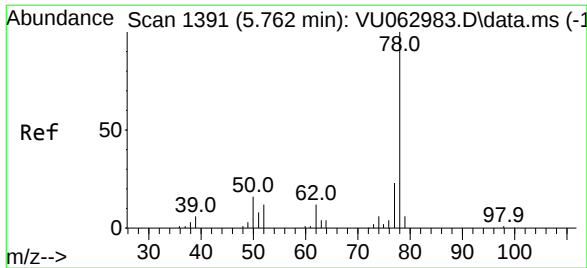


#31
 Carbon tetrachloride
 Concen: 11.107 ug/L
 RT: 5.512 min Scan# 1313
 Delta R.T. 0.000 min
 Lab File: VU062990.D
 Acq: 24 Jan 2025 14:00

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# 13

Delta R.T. -0.003 min

Lab File: VU062990.D

Acq: 24 Jan 2025 14:00

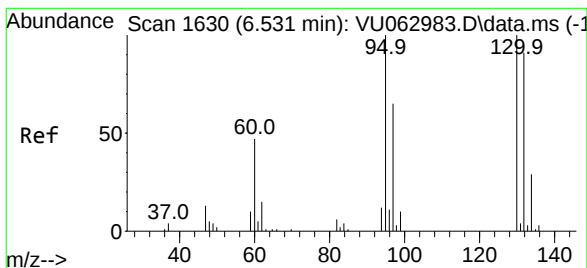
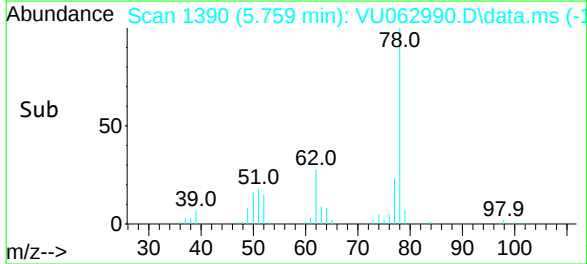
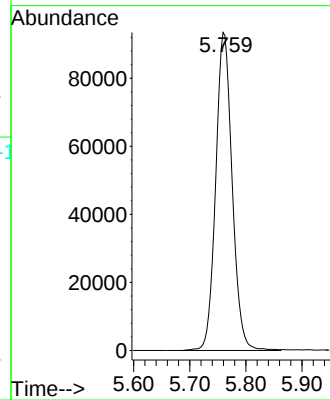
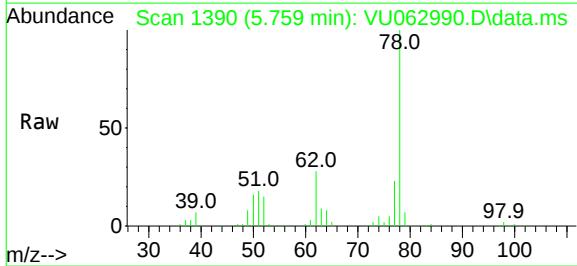
Instrument :

MSVOA_U

ClientSampleId :

C0AD4

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

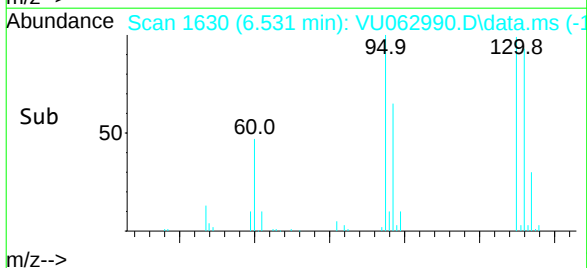
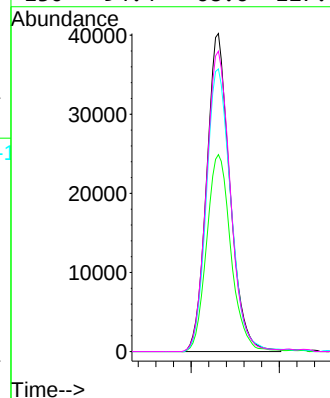
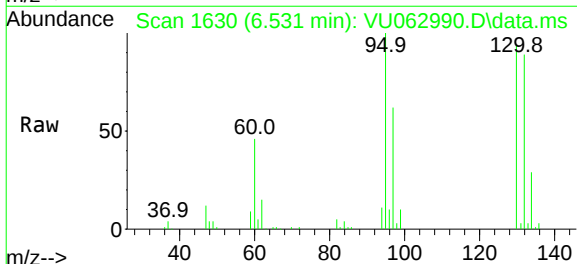
Ion Ratio Lower Upper

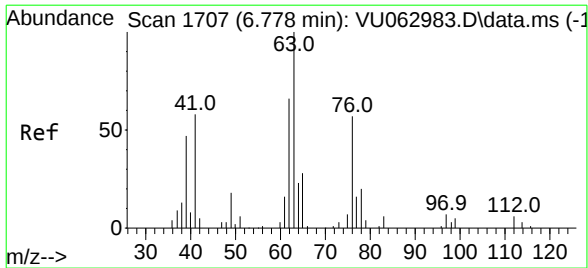
95 100

97 61.9 47.5 88.3

132 88.9 66.9 124.3

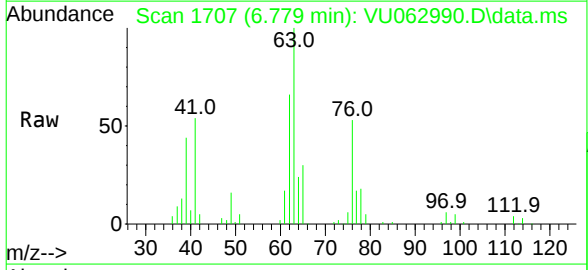
130 94.4 68.6 127.4



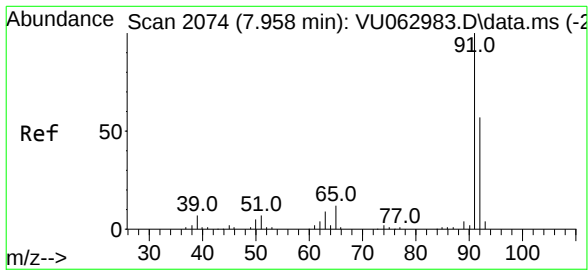
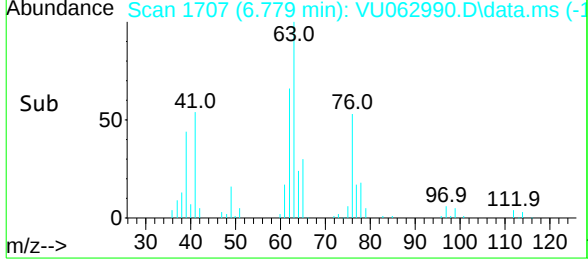
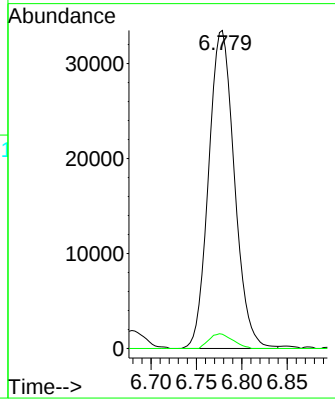


#37
 1,2-Dichloropropane
 Concen: 12.154 ug/L
 RT: 6.779 min Scan# 1707
 Delta R.T. 0.000 min
 Lab File: VU062990.D
 Acq: 24 Jan 2025 14:00

Instrument :
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 ClientSampleId :
 C0AD4

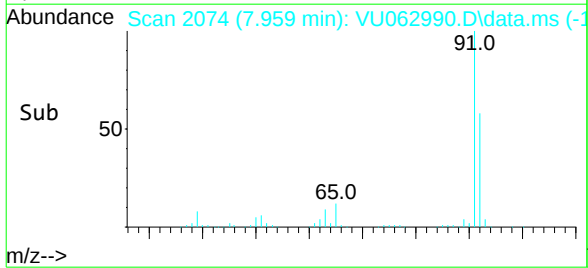
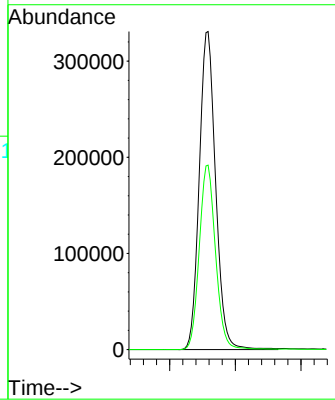
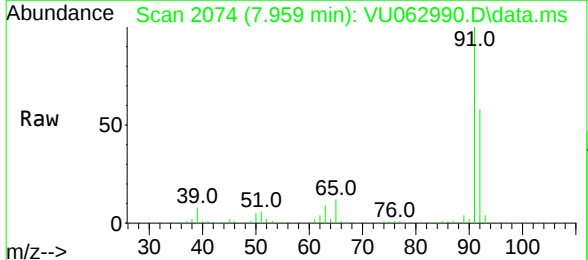


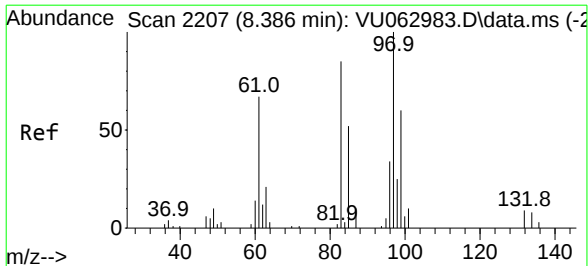
Tgt Ion: 63 Resp: 66263
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.8 5.8



#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

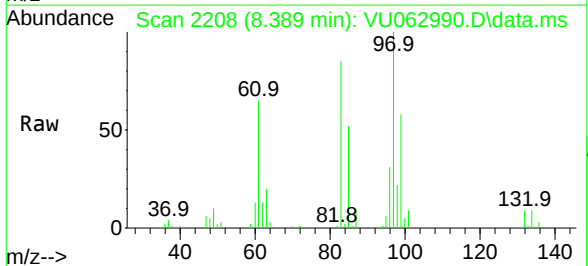
Tgt Ion: 91 Resp: 573215
 Ion Ratio Lower Upper
 91 100
 92 58.0 40.4 75.0



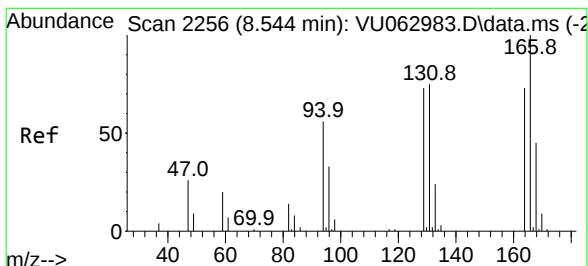
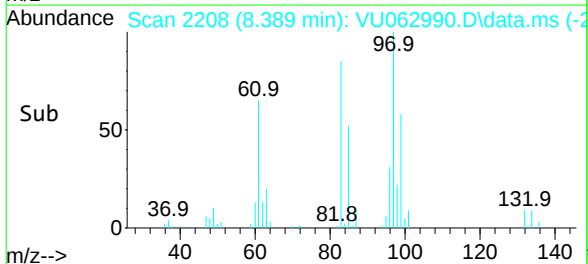
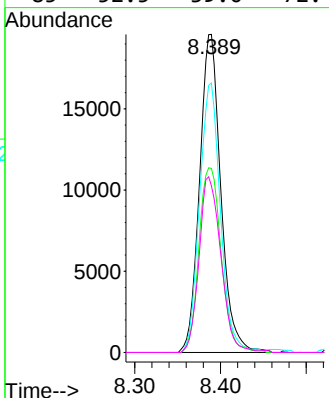


#45
1,1,2-Trichloroethane
Concen: 7.632 ug/L
RT: 8.389 min Scan# 2207
Delta R.T. 0.003 min
Lab File: VU062990.D
Acq: 24 Jan 2025 14:00

Instrument :
MSVOA_U
ClientSampleId :
C0AD4

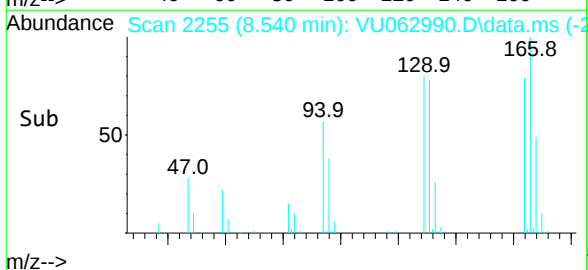
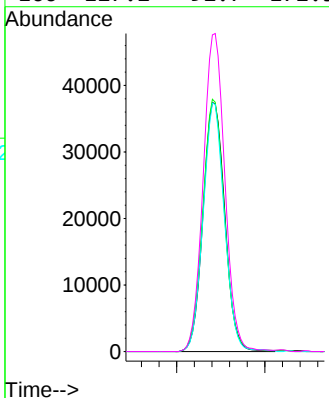
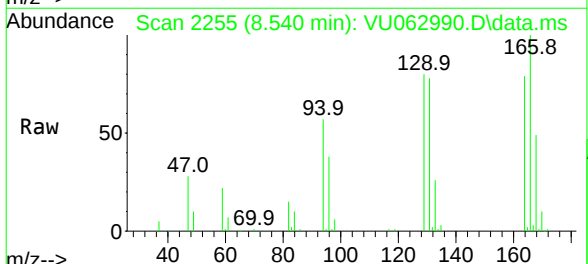


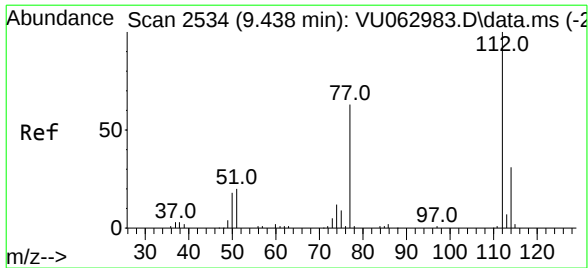
Tgt Ion:	97	Resp:	33793
Ion	Ratio	Lower	Upper
97	100		
99	57.9	45.6	84.6
83	84.7	63.0	117.0
85	52.5	39.0	72.4



#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

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





#51

Chlorobenzene

Concen: 9.630 ug/L

RT: 9.434 min Scan# 25

Delta R.T. -0.003 min

Lab File: VU062990.D

Acq: 24 Jan 2025 14:00

Instrument :

MSVOA_U

ClientSampleId :

C0AD4

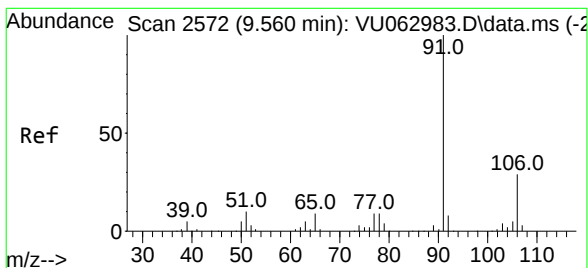
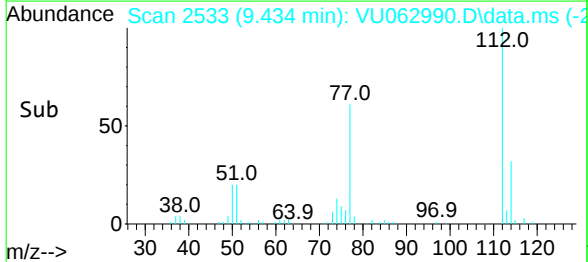
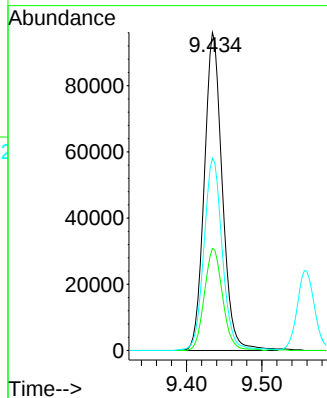
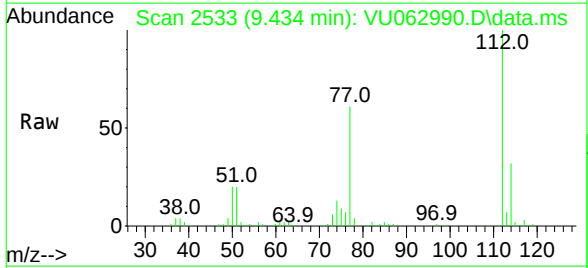
Tgt Ion:112 Resp: 159487

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

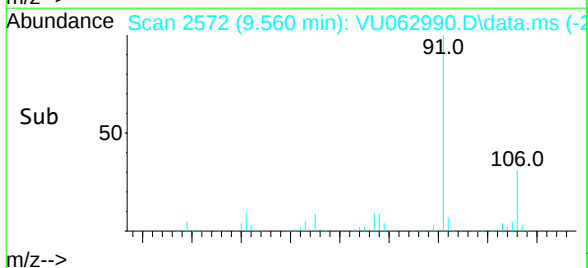
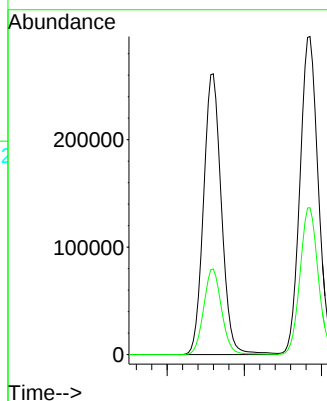
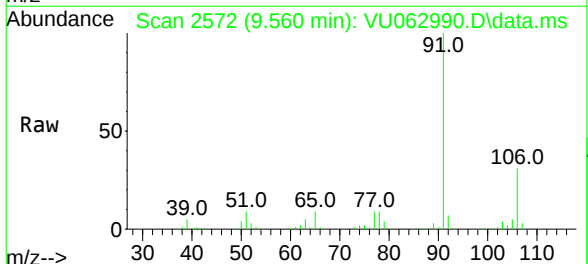
Acq: 24 Jan 2025 14:00

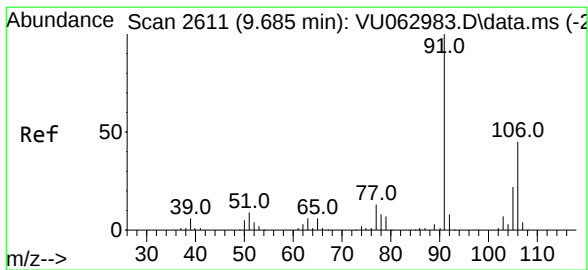
Tgt Ion: 91 Resp: 421272

Ion Ratio Lower Upper

91 100

106 30.5 21.9 40.7

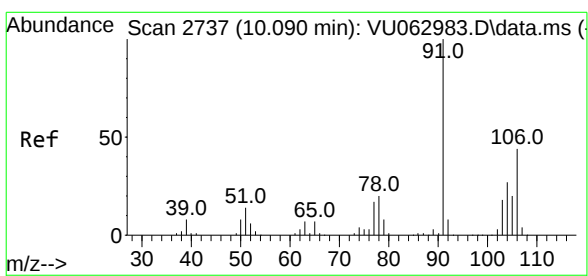
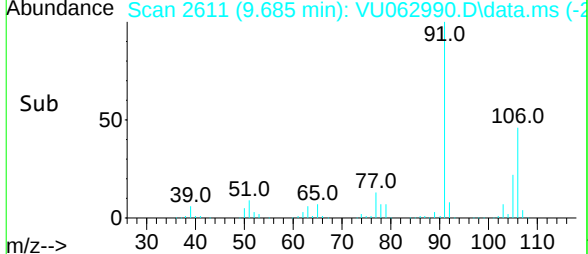
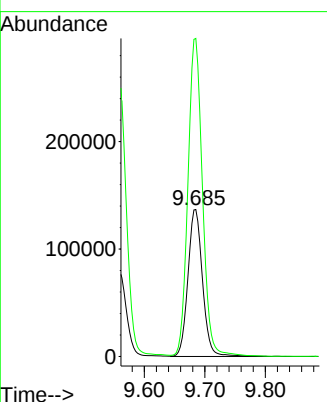
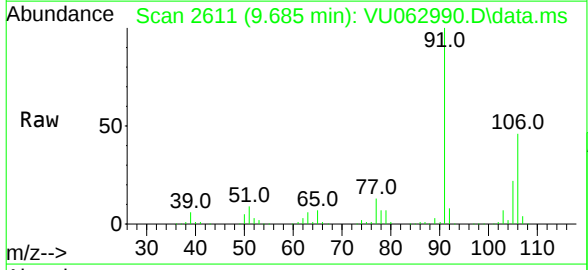




#53
 m,p-Xylene
 Concen: 21.235 ug/L
 RT: 9.685 min Scan# 2611
 Delta R.T. 0.000 min
 Lab File: VU062990.D
 Acq: 24 Jan 2025 14:00

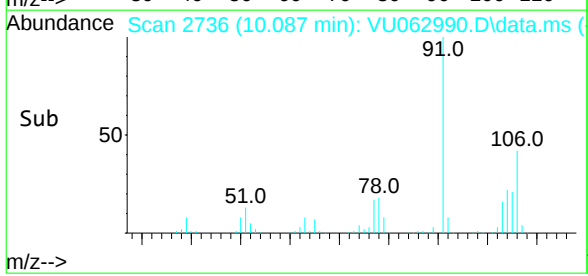
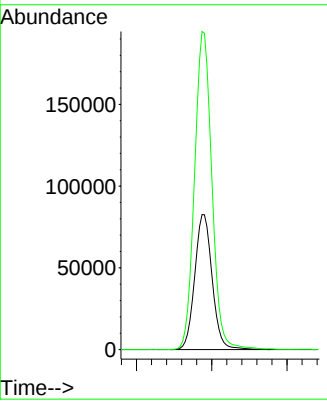
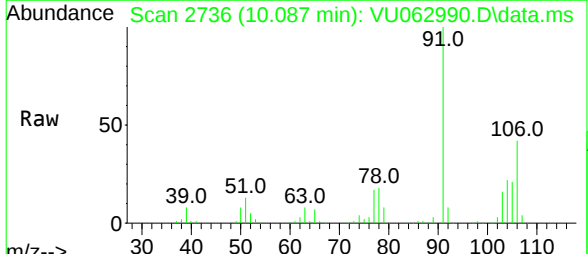
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AD4

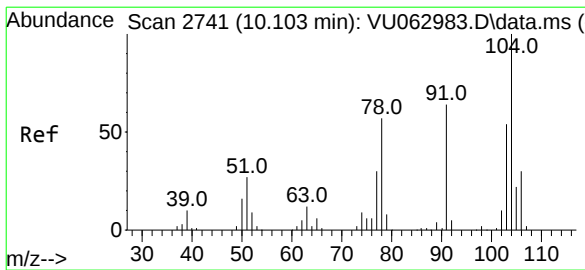
Tgt Ion:	106	Resp:	228242
Ion Ratio	Lower	Upper	
106	100		
91	216.4	153.1	284.3



#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# 27

Delta R.T. 0.000 min

Lab File: VU062990.D

Acq: 24 Jan 2025 14:00

Instrument :

MSVOA_U

ClientSampleId :

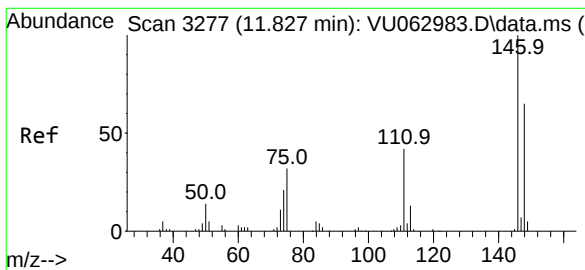
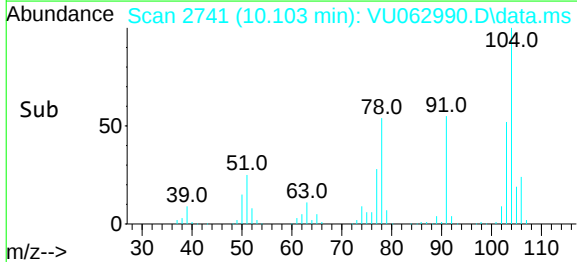
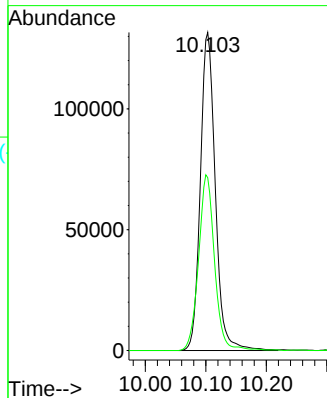
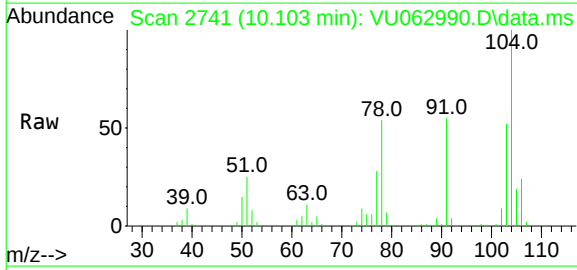
C0AD4

Tgt Ion:104 Resp: 225867

Ion Ratio Lower Upper

104 100

78 54.3 35.5 65.9



#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

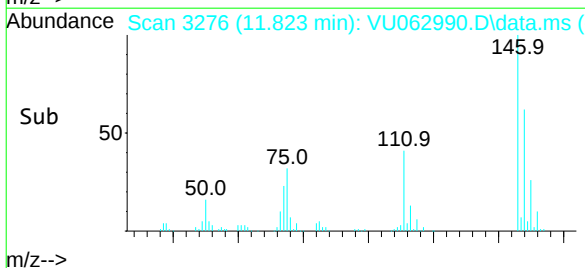
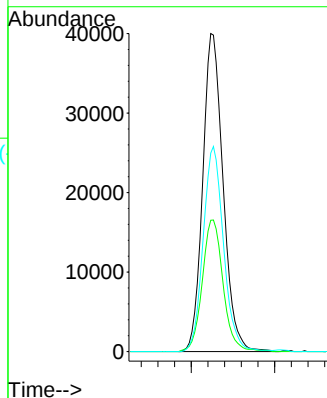
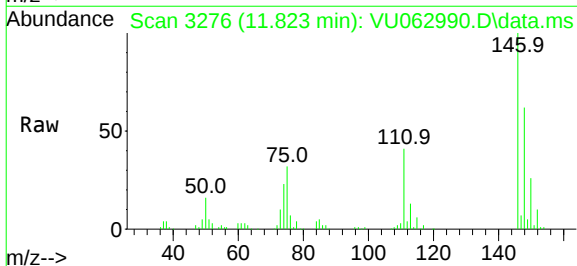
Tgt Ion:146 Resp: 67854

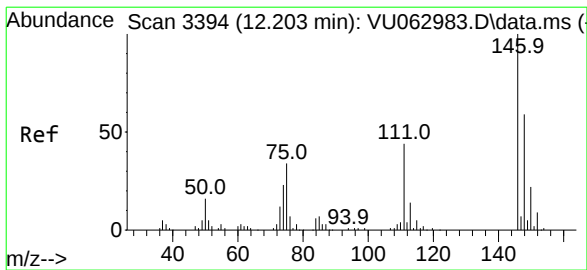
Ion Ratio Lower Upper

146 100

111 41.3 29.5 54.9

148 62.4 45.1 83.9

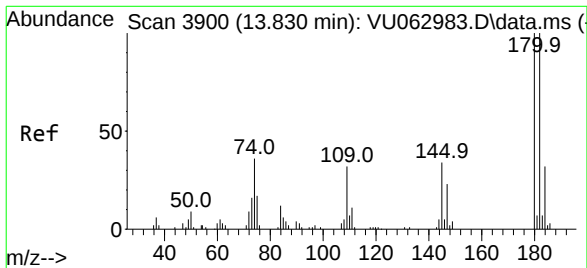
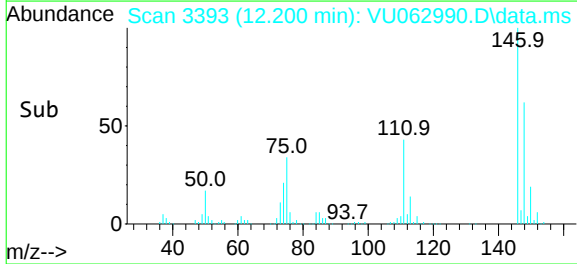
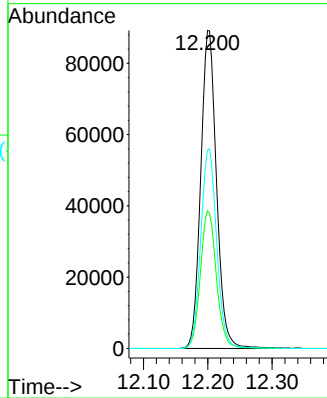
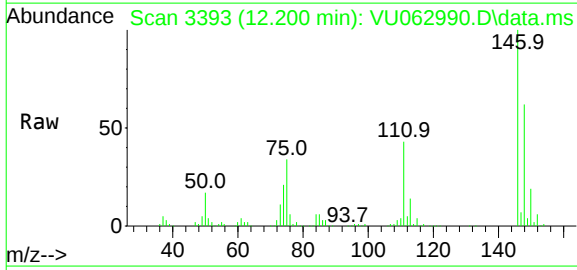




#67
1,2-Dichlorobenzene
Concen: 11.758 ug/L
RT: 12.200 min Scan# 3394
Delta R.T. -0.003 min
Lab File: VU062990.D
Acq: 24 Jan 2025 14:00

Instrument :
MSVOA_U
ClientSampleId :
C0AD4

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



#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

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

