

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU012425\
 Data File : VU062985.D
 Acq On : 24 Jan 2025 11:50
 Operator : MD/SY
 Sample : Q1086-21
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 24 19:03:17 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	111725	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	79093	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	45147	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	26388	4.265	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.200%
7) Chloroethane-d5	1.904	69	17832	3.582	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	71.600%
11) 1,1-Dichloroethene-d2	2.557	65	9244	2.884	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	57.600%#
20) 2-Butanone-d5	4.618	46	41218	32.592	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	65.180%
24) Chloroform-d	5.049	84	55822	3.667	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	73.400%
26) 1,2-Dichloroethane-d4	5.689	65	34542	4.183	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.600%
32) Benzene-d6	5.714	84	114424	5.918	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	118.400%
36) 1,2-Dichloropropane-d6	6.679	67	36761	6.858	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	137.200%
41) Toluene-d8	7.888	98	86823	4.609	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.200%
43) trans-1,3-Dichloroprop...	8.174	79	14343	5.368	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	107.400%
46) 2-Hexanone-d5	8.624	63	46577	55.423	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.840%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	22824	5.084	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.600%
66) 1,2-Dichlorobenzene-d4	12.183	152	32520	4.330	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.600%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.599	62	248711	30.923	ug/L	98
12) 1,1-Dichloroethene	2.570	96	61229	8.828	ug/L #	85
16) Methylene chloride	3.033	84	26968	3.550	ug/L	99
18) trans-1,2-Dichloroethene	3.341	96	50046	6.735	ug/L	99
22) cis-1,2-Dichloroethene	4.653	96	25286	3.125	ug/L	97
27) 1,2-Dichloroethane	5.779	62	188404	17.623	ug/L	96
29) 1,1,1-Trichloroethane	5.303	97	274777	22.903	ug/L	98
31) Carbon tetrachloride	5.512	117	137114	12.436	ug/L	97
33) Benzene	5.759	78	221173	9.733	ug/L	100
34) Trichloroethene	6.531	95	96575	12.441	ug/L	93
35) Methylcyclohexane	6.676	83	8983	0.940	ug/L #	21
37) 1,2-Dichloropropane	6.779	63	84402	15.745	ug/L #	97
42) Toluene	7.959	91	580581	23.316	ug/L	99
45) 1,1,2-Trichloroethane	8.389	97	37853	8.694	ug/L	100
47) Tetrachloroethene	8.544	164	70428	13.173	ug/L	97
49) Dibromochloromethane	8.544	129	73313	12.542	ug/L #	12
51) Chlorobenzene	9.434	112	163781	10.058	ug/L	99
52) Ethylbenzene	9.560	91	437849	15.495	ug/L	97
53) m,p-Xylene	9.685	106	241816	22.882	ug/L	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU012425\
 Data File : VU062985.D
 Acq On : 24 Jan 2025 11:50
 Operator : MD/SY
 Sample : Q1086-21
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 24 19:03:17 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)

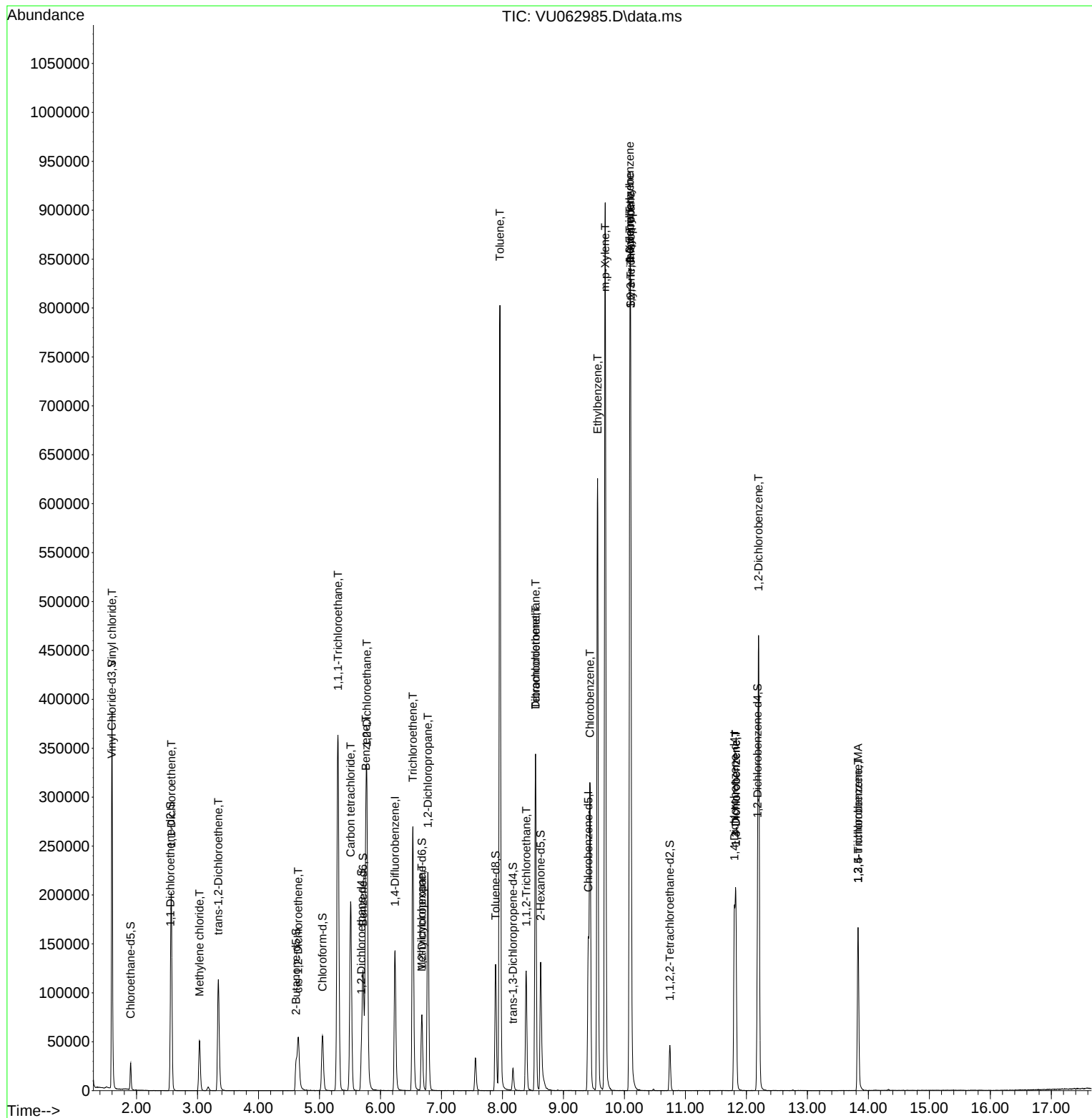
54) o-Xylene	10.090	106	148274	14.648	ug/L	99
55) Styrene	10.103	104	255167	15.070	ug/L	96
60) Isopropylbenzene	10.090	105	85184	2.738	ug/L #	1
61) 1,2,3-Trichloropropane	10.103	75	17810	4.447	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.090	105	85184	3.221	ug/L #	31
64) 1,3-Dichlorobenzene	11.827	146	78189	5.421	ug/L	99
65) 1,4-Dichlorobenzene	11.827	146	78189	5.376	ug/L	99
67) 1,2-Dichlorobenzene	12.200	146	174958	12.943	ug/L	99
69) 1,3,5-Trichlorobenzene	13.833	180	55211	5.083	ug/L	98
70) 1,2,4-trichlorobenzene	13.833	180	55211	6.311	ug/L	96

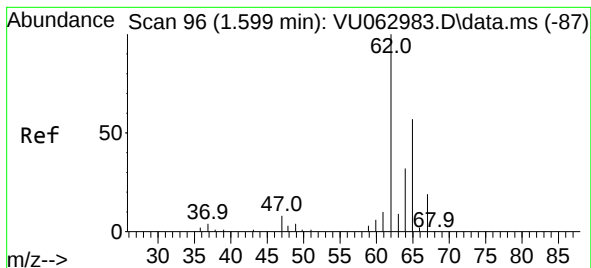
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU012425\
Data File : VU062985.D
Acq On : 24 Jan 2025 11:50
Operator : MD/SY
Sample : Q1086-21
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Jan 24 19:03:17 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





#5

Vinyl chloride

Concen: 30.923 ug/L

RT: 1.599 min Scan# 96

Delta R.T. 0.000 min

Lab File: VU062985.D

Acq: 24 Jan 2025 11:50

Instrument :

MSVOA_U

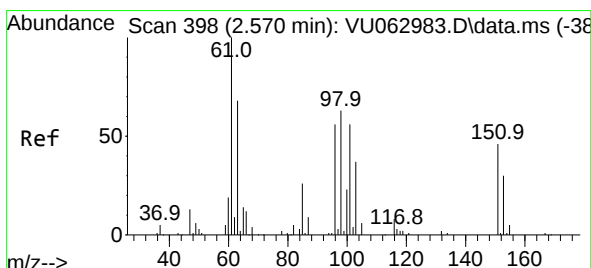
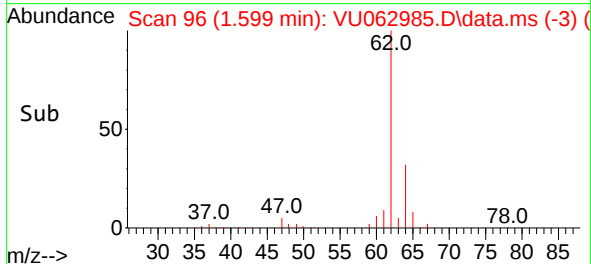
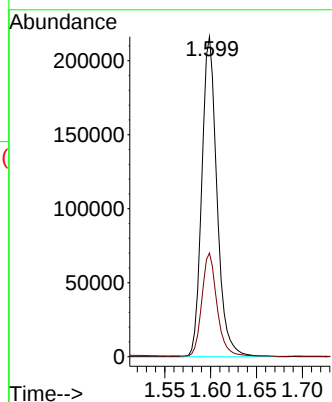
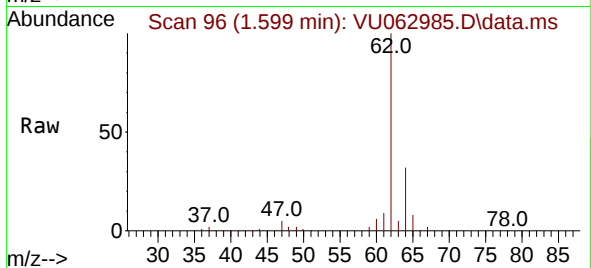
ClientSampleId :

Tgt Ion: 62 Resp: 248711

Ion Ratio Lower Upper

62 100

64 32.4 23.4 43.4



#12

1,1-Dichloroethene

Concen: 8.828 ug/L

RT: 2.570 min Scan# 398

Delta R.T. 0.000 min

Lab File: VU062985.D

Acq: 24 Jan 2025 11:50

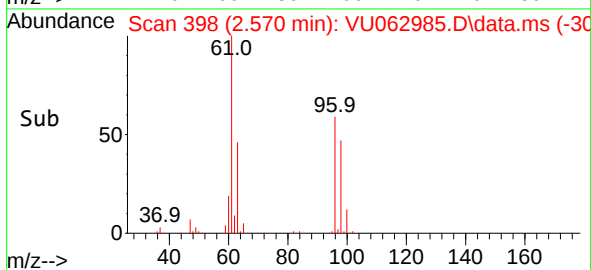
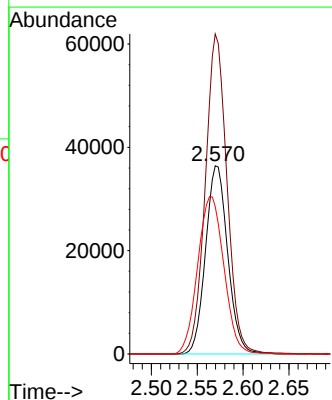
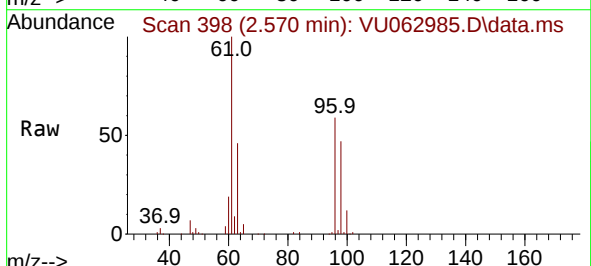
Tgt Ion: 96 Resp: 61229

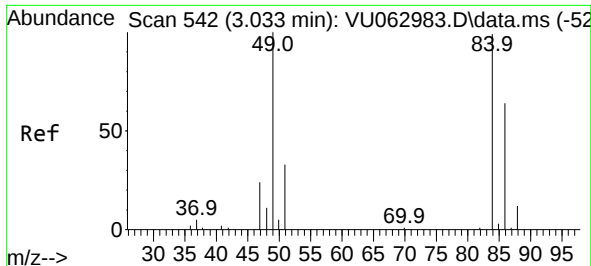
Ion Ratio Lower Upper

96 100

61 170.1 120.4 223.6

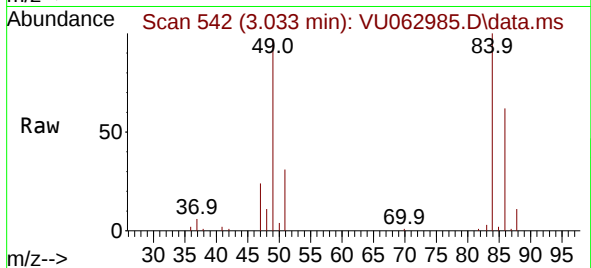
63 78.3 82.3 152.9



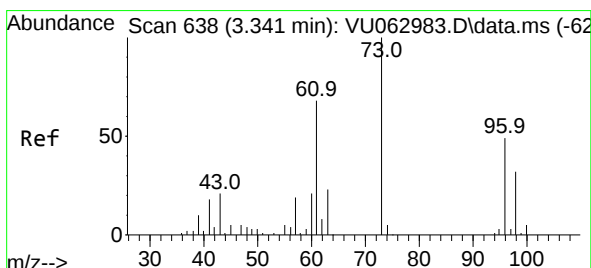
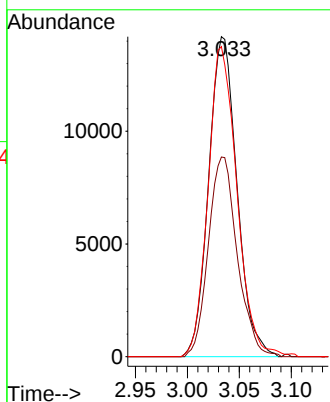
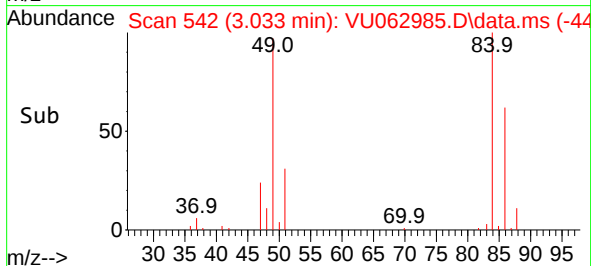


#16
Methylene chloride
Concen: 3.550 ug/L
RT: 3.033 min Scan# 54
Delta R.T. 0.000 min
Lab File: VU062985.D
Acq: 24 Jan 2025 11:50

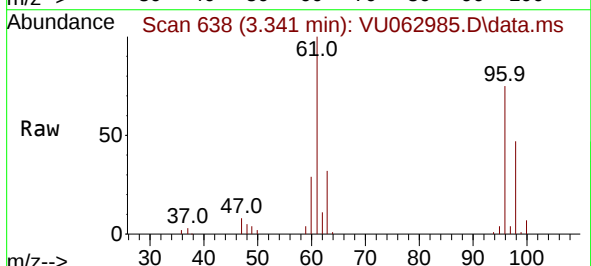
Instrument :
MSVOA_U
ClientSampleId :



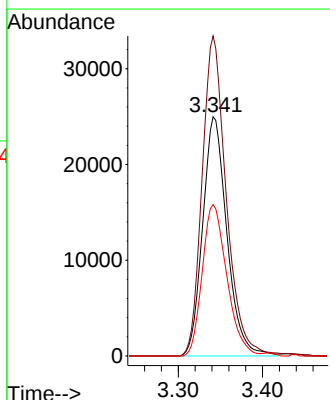
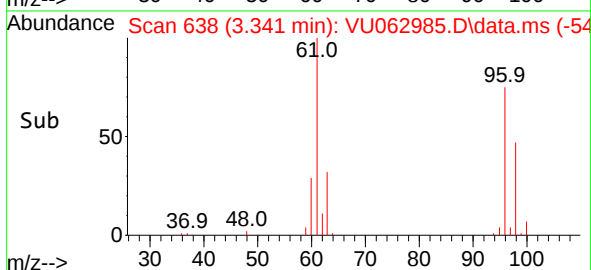
Tgt Ion: 84 Resp: 26968
Ion Ratio Lower Upper
84 100
86 62.4 44.7 83.1
49 96.9 68.3 126.9

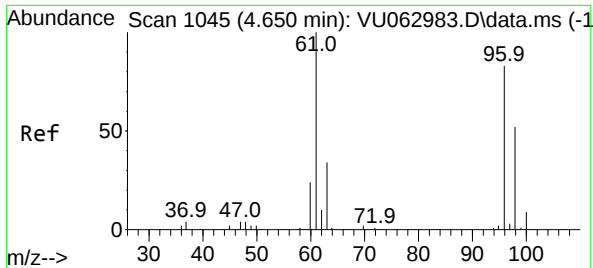


#18
trans-1,2-Dichloroethene
Concen: 6.735 ug/L
RT: 3.341 min Scan# 638
Delta R.T. 0.000 min
Lab File: VU062985.D
Acq: 24 Jan 2025 11:50



Tgt Ion: 96 Resp: 50046
Ion Ratio Lower Upper
96 100
61 133.8 94.4 175.2
98 63.3 42.8 79.4

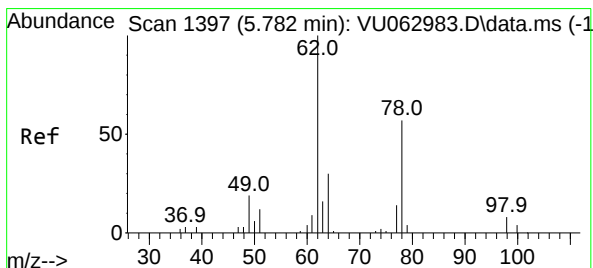
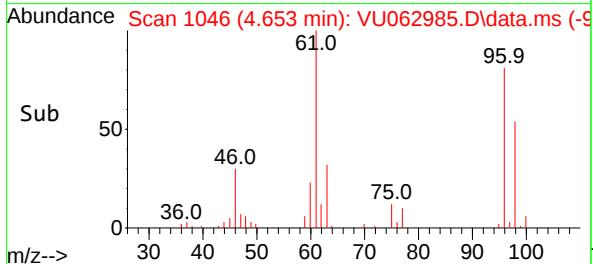
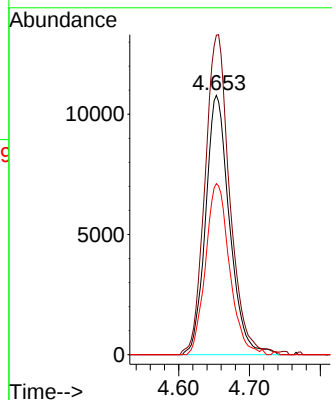
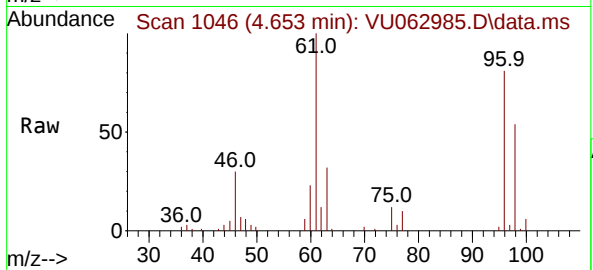




#22
 cis-1,2-Dichloroethene
 Concen: 3.125 ug/L
 RT: 4.653 min Scan# 1046
 Delta R.T. 0.003 min
 Lab File: VU062985.D
 Acq: 24 Jan 2025 11:50

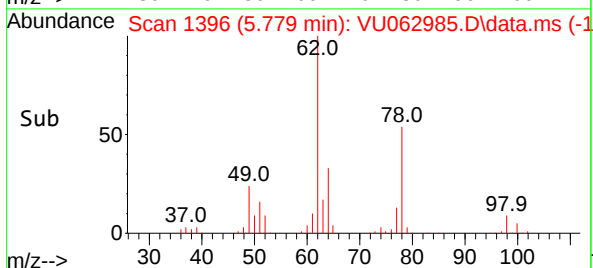
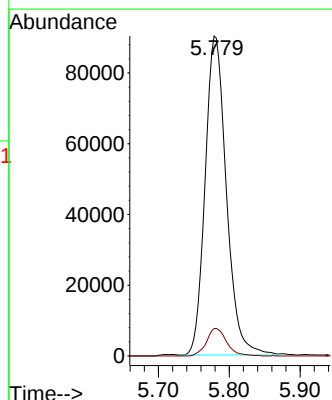
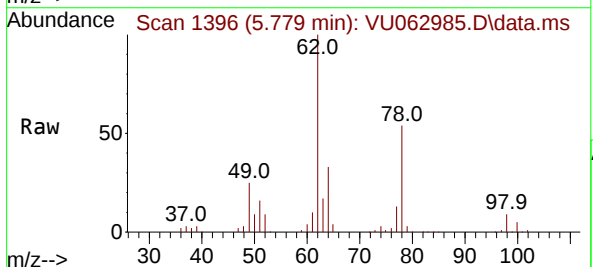
Instrument :
 MSVOA_U
 ClientSampleId :

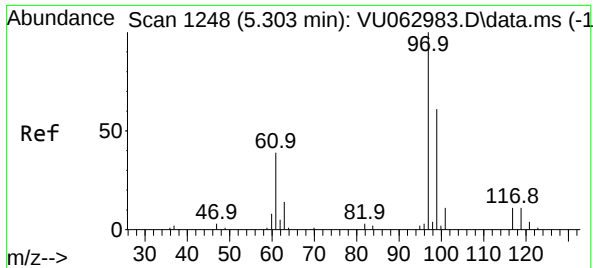
Tgt Ion: 96 Resp: 25286
 Ion Ratio Lower Upper
 96 100
 61 123.2 84.8 157.6
 98 66.0 43.1 80.1



#27
 1,2-Dichloroethane
 Concen: 17.623 ug/L
 RT: 5.779 min Scan# 1396
 Delta R.T. -0.003 min
 Lab File: VU062985.D
 Acq: 24 Jan 2025 11:50

Tgt Ion: 62 Resp: 188404
 Ion Ratio Lower Upper
 62 100
 98 8.6 5.8 8.6

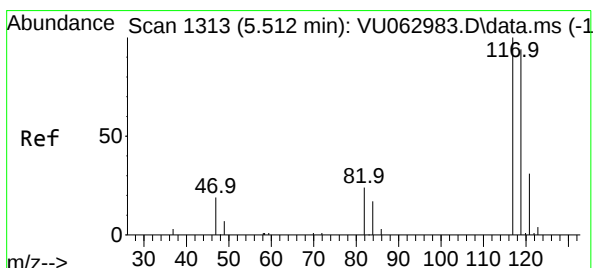
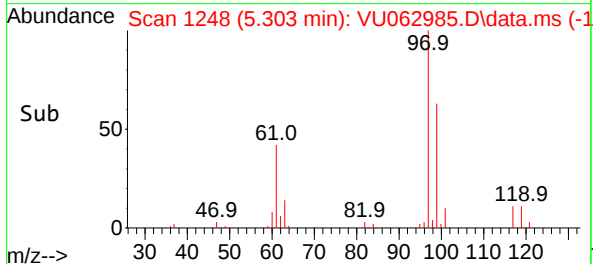
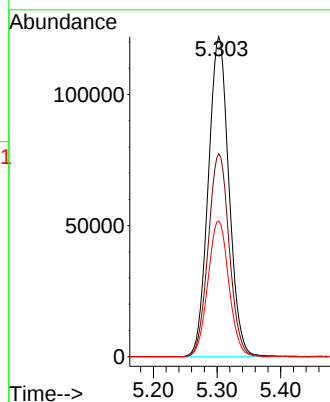
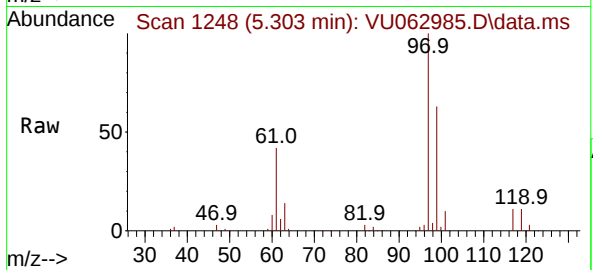




#29
1,1,1-Trichloroethane
Concen: 22.903 ug/L
RT: 5.303 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU062985.D
Acq: 24 Jan 2025 11:50

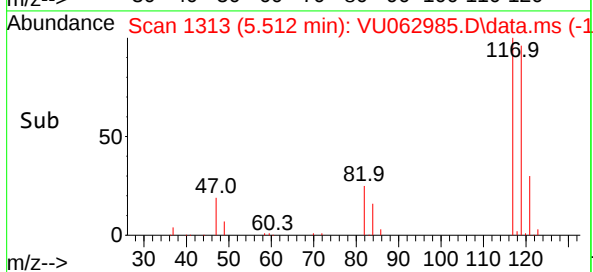
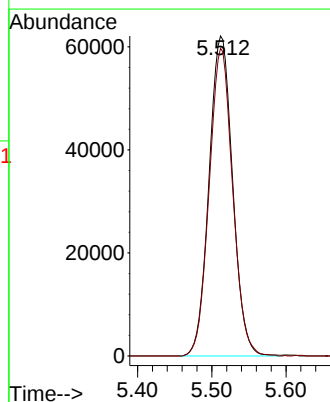
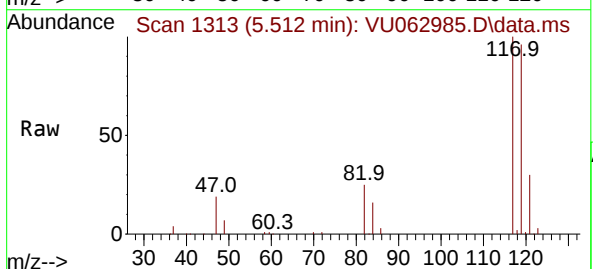
Instrument :
MSVOA_U
ClientSampleId :

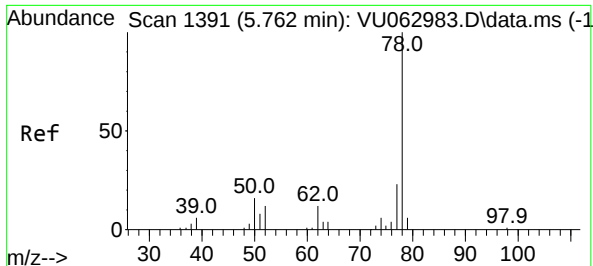
Tgt Ion: 97 Resp: 274777
Ion Ratio Lower Upper
97 100
99 64.7 52.4 78.6
61 43.2 32.2 48.4



#31
Carbon tetrachloride
Concen: 12.436 ug/L
RT: 5.512 min Scan# 1313
Delta R.T. 0.000 min
Lab File: VU062985.D
Acq: 24 Jan 2025 11:50

Tgt Ion: 117 Resp: 137114
Ion Ratio Lower Upper
117 100
119 95.6 78.6 118.0

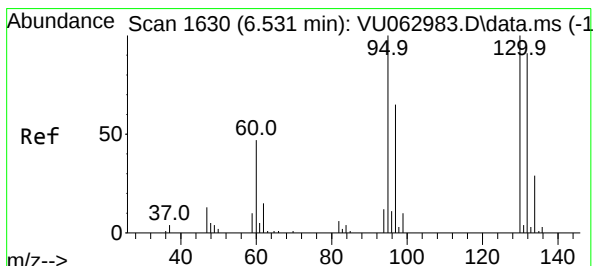
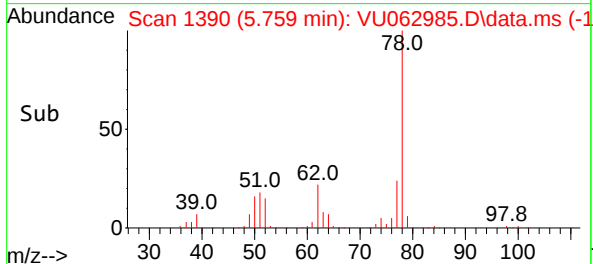
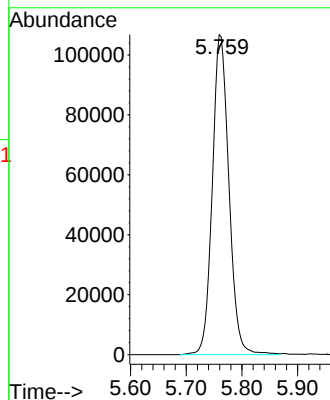
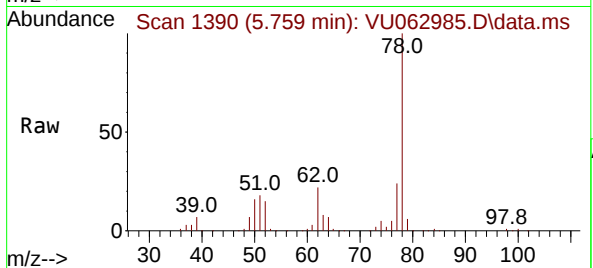




#33
Benzene
Concen: 9.733 ug/L
RT: 5.759 min Scan# 1390
Delta R.T. -0.003 min
Lab File: VU062985.D
Acq: 24 Jan 2025 11:50

Instrument :
MSVOA_U
ClientSampleId :

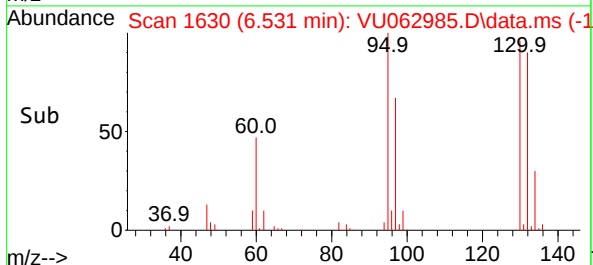
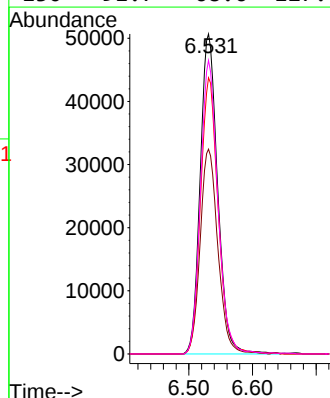
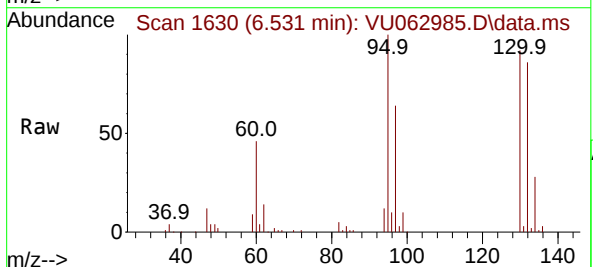
Tgt Ion: 78 Resp: 221173

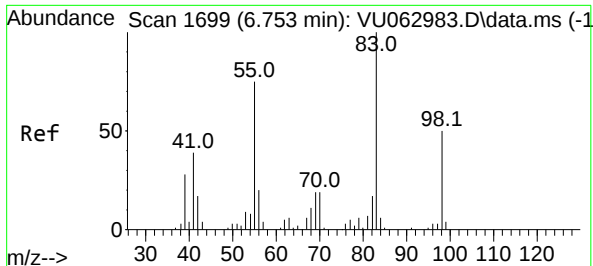


#34
Trichloroethene
Concen: 12.441 ug/L
RT: 6.531 min Scan# 1630
Delta R.T. 0.000 min
Lab File: VU062985.D
Acq: 24 Jan 2025 11:50

Tgt Ion: 95 Resp: 96575

Ion	Ratio	Lower	Upper
95	100		
97	64.0	47.5	88.3
132	86.3	66.9	124.3
130	91.7	68.6	127.4

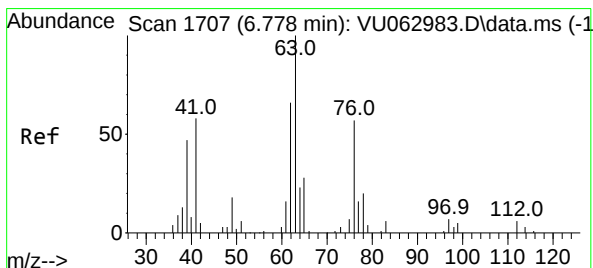
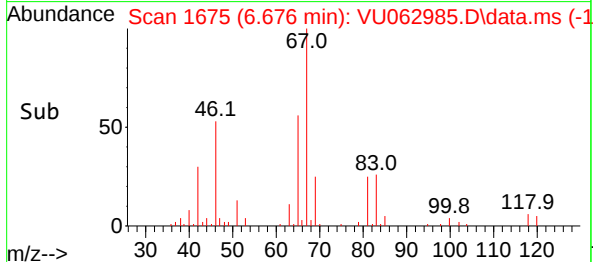
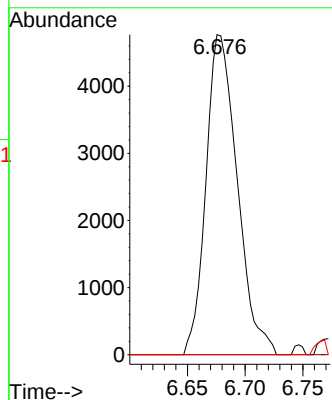
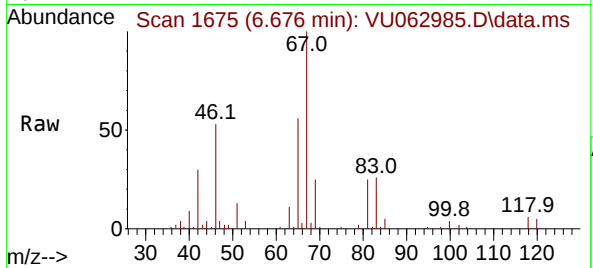




#35
Methylcyclohexane
Concen: 0.940 ug/L
RT: 6.676 min Scan# 1
Delta R.T. -0.077 min
Lab File: VU062985.D
Acq: 24 Jan 2025 11:50

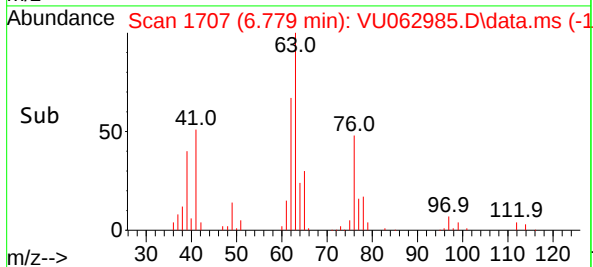
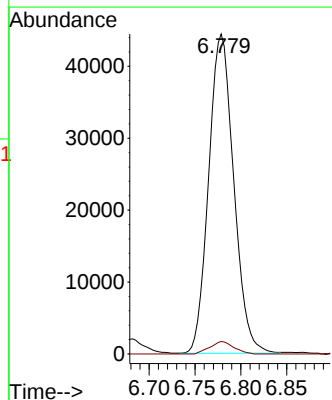
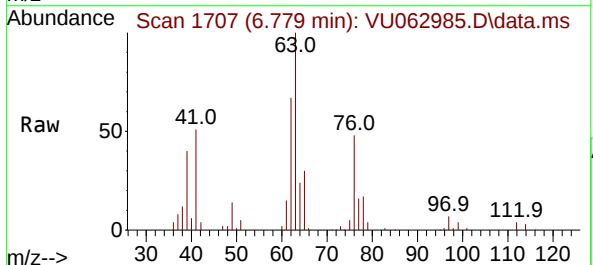
Instrument :
MSVOA_U
ClientSampleId :

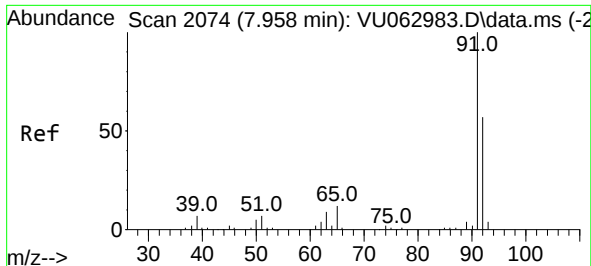
Tgt Ion: 83 Resp: 8983
Ion Ratio Lower Upper
83 100
55 0.0 57.2 85.8#
98 1.5 36.6 55.0#



#37
1,2-Dichloropropane
Concen: 15.745 ug/L
RT: 6.779 min Scan# 1707
Delta R.T. 0.000 min
Lab File: VU062985.D
Acq: 24 Jan 2025 11:50

Tgt Ion: 63 Resp: 84402
Ion Ratio Lower Upper
63 100
112 3.7 3.8 5.8#

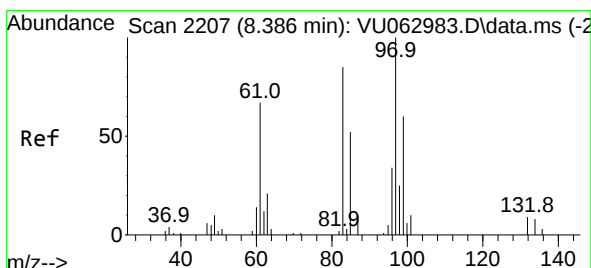
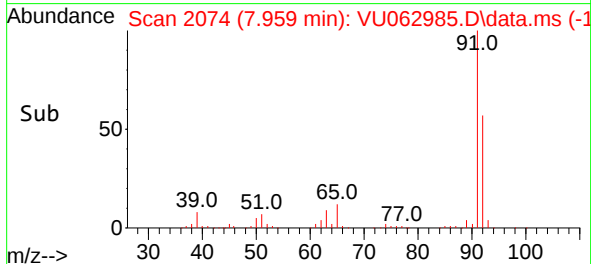
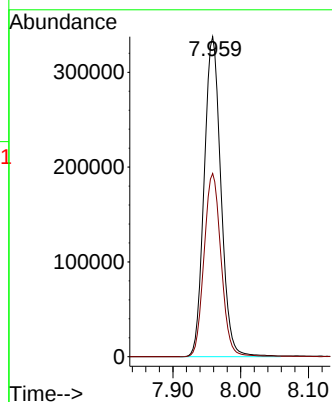
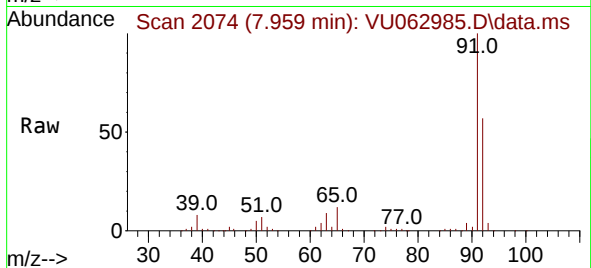




#42
Toluene
Concen: 23.316 ug/L
RT: 7.959 min Scan# 2074
Delta R.T. 0.000 min
Lab File: VU062985.D
Acq: 24 Jan 2025 11:50

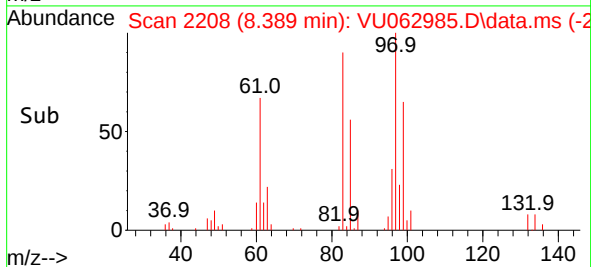
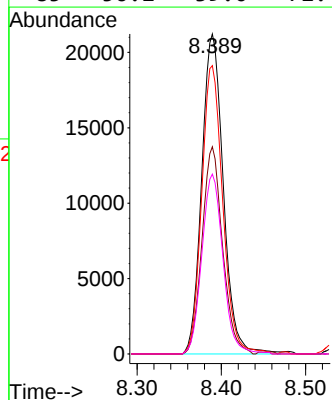
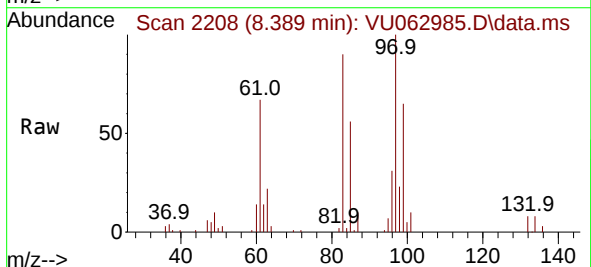
Instrument :
MSVOA_U
ClientSampleId :

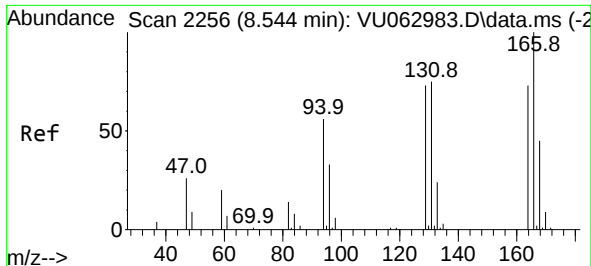
Tgt Ion: 91 Resp: 580581
Ion Ratio Lower Upper
91 100
92 57.2 40.4 75.0



#45
1,1,2-Trichloroethane
Concen: 8.694 ug/L
RT: 8.389 min Scan# 2208
Delta R.T. 0.003 min
Lab File: VU062985.D
Acq: 24 Jan 2025 11:50

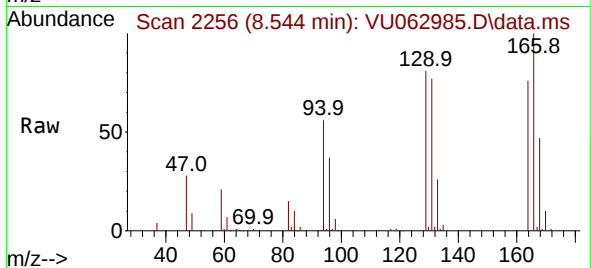
Tgt Ion: 97 Resp: 37853
Ion Ratio Lower Upper
97 100
99 64.8 45.6 84.6
83 90.1 63.0 117.0
85 56.2 39.0 72.4



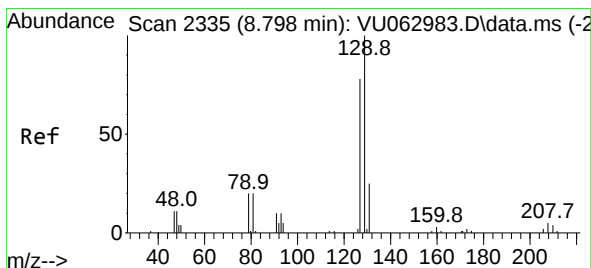
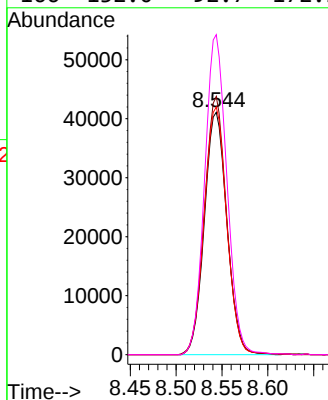
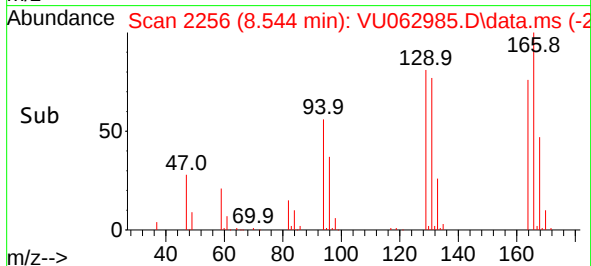


#47
Tetrachloroethene
Concen: 13.173 ug/L
RT: 8.544 min Scan# 2256
Delta R.T. 0.000 min
Lab File: VU062985.D
Acq: 24 Jan 2025 11:50

Instrument :
MSVOA_U
ClientSampleId :

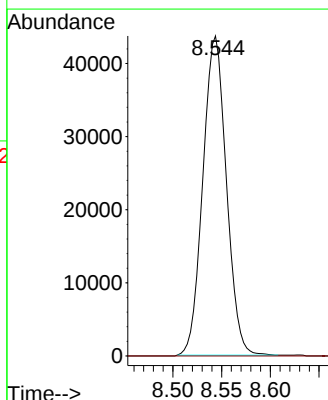
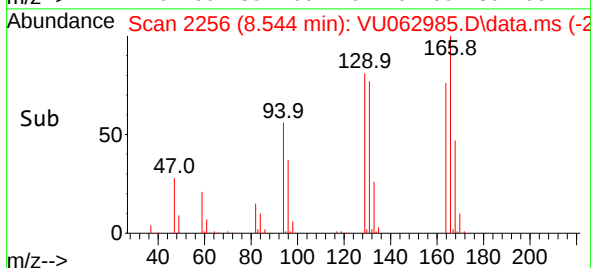
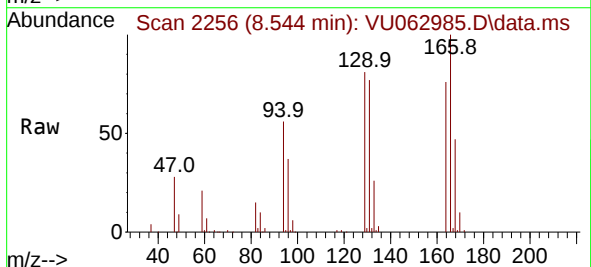


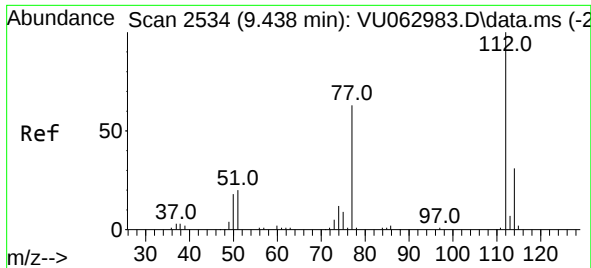
Tgt Ion:164 Resp: 70428
Ion Ratio Lower Upper
164 100
129 106.5 71.0 131.9
131 102.2 69.4 129.0
166 132.0 92.7 172.3



#49
Dibromochloromethane
Concen: 12.542 ug/L
RT: 8.544 min Scan# 2256
Delta R.T. -0.254 min
Lab File: VU062985.D
Acq: 24 Jan 2025 11:50

Tgt Ion:129 Resp: 73313
Ion Ratio Lower Upper
129 100
127 0.0 52.1 96.9#

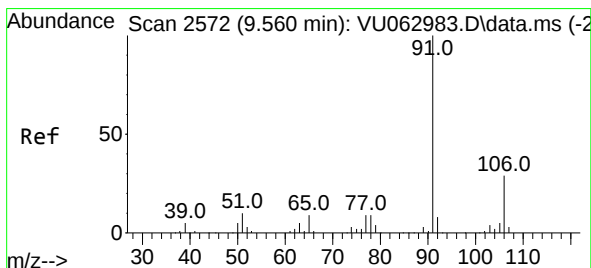
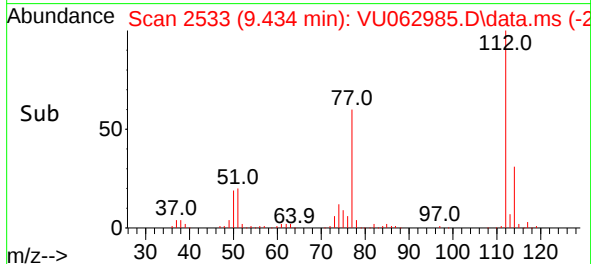
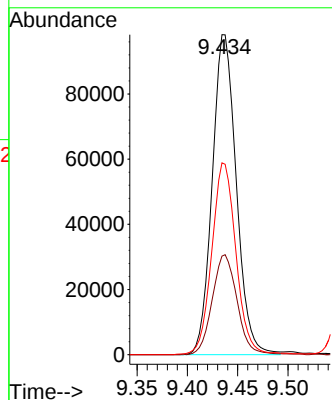
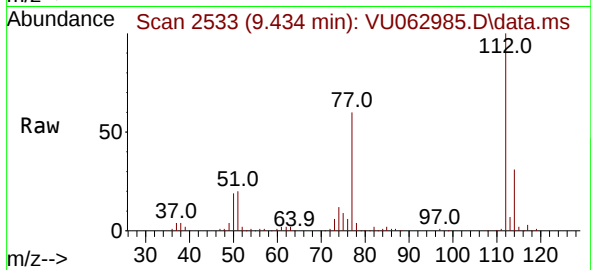




#51
Chlorobenzene
Concen: 10.058 ug/L
RT: 9.434 min Scan# 2534
Delta R.T. -0.003 min
Lab File: VU062985.D
Acq: 24 Jan 2025 11:50

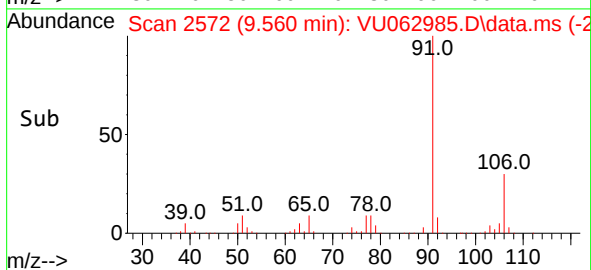
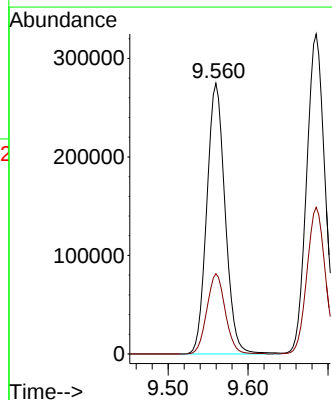
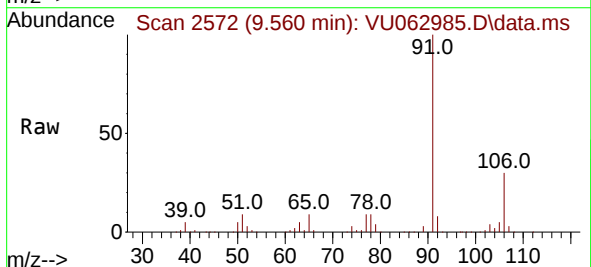
Instrument :
MSVOA_U
ClientSampleId :

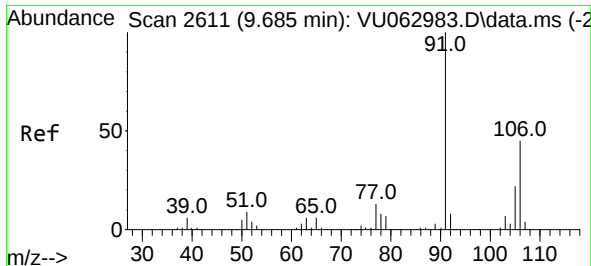
Tgt Ion:112 Resp: 163781
Ion Ratio Lower Upper
112 100
114 30.8 21.7 40.3
77 59.9 48.6 73.0



#52
Ethylbenzene
Concen: 15.495 ug/L
RT: 9.560 min Scan# 2572
Delta R.T. 0.000 min
Lab File: VU062985.D
Acq: 24 Jan 2025 11:50

Tgt Ion: 91 Resp: 437849
Ion Ratio Lower Upper
91 100
106 29.7 21.9 40.7

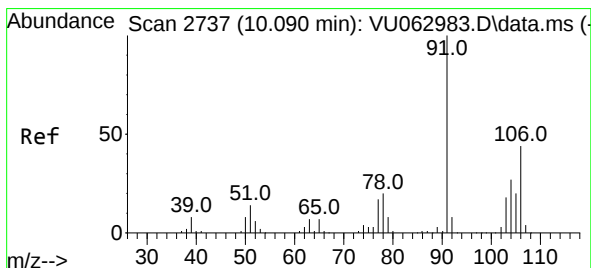
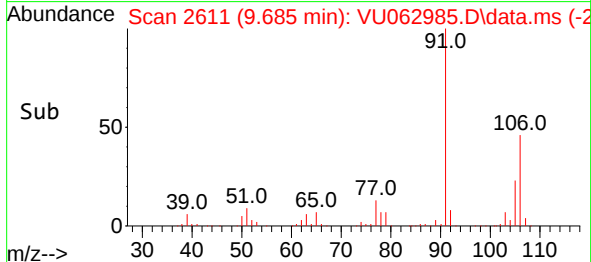
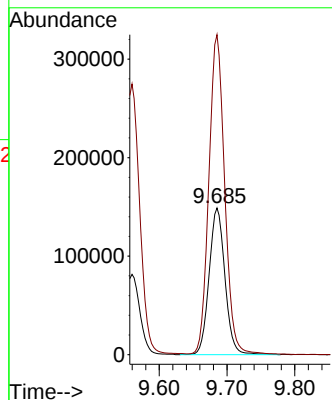
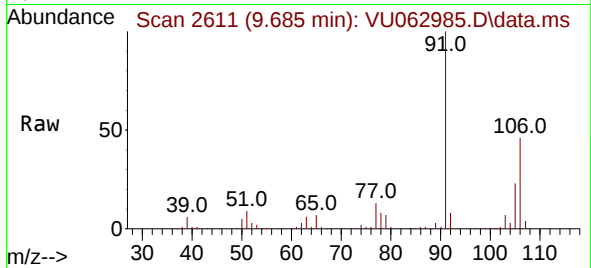




#53
m,p-Xylene
Concen: 22.882 ug/L
RT: 9.685 min Scan# 2611
Delta R.T. 0.000 min
Lab File: VU062985.D
Acq: 24 Jan 2025 11:50

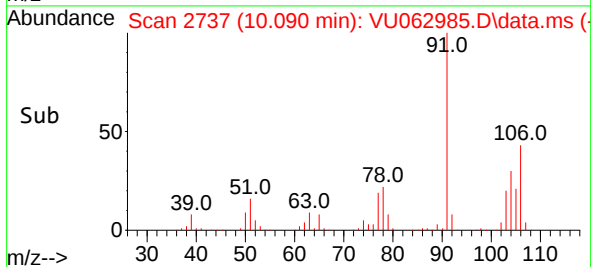
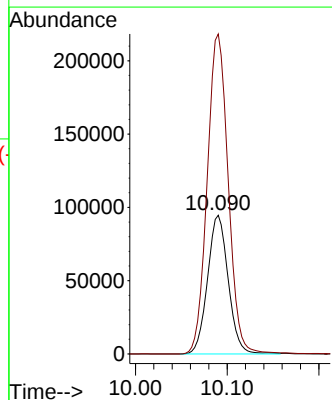
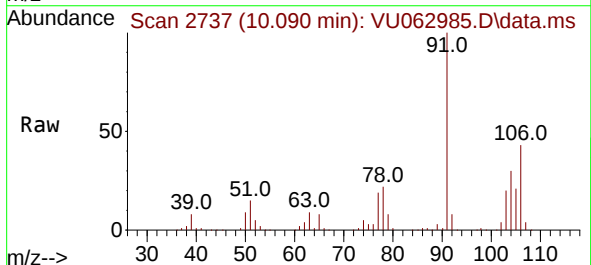
Instrument :
MSVOA_U
ClientSampleId :

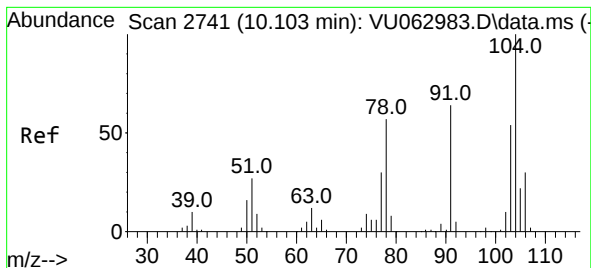
Tgt Ion:106 Resp: 241816
Ion Ratio Lower Upper
106 100
91 218.2 153.1 284.3



#54
o-Xylene
Concen: 14.648 ug/L
RT: 10.090 min Scan# 2737
Delta R.T. 0.000 min
Lab File: VU062985.D
Acq: 24 Jan 2025 11:50

Tgt Ion:106 Resp: 148274
Ion Ratio Lower Upper
106 100
91 230.6 160.4 297.8





#55

Styrene

Concen: 15.070 ug/L

RT: 10.103 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU062985.D

Acq: 24 Jan 2025 11:50

Instrument :

MSVOA_U

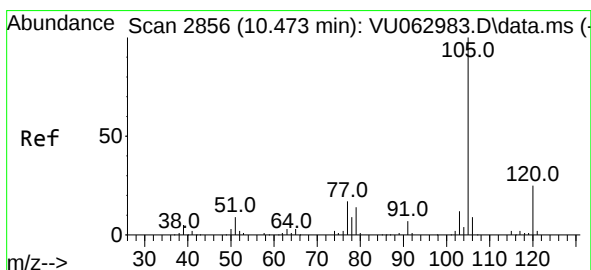
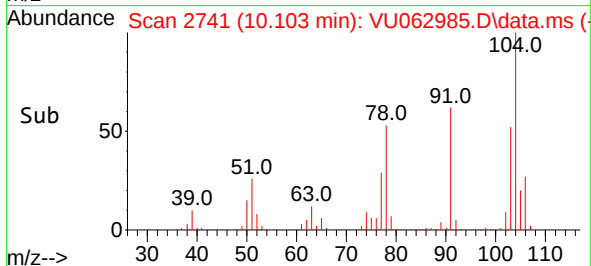
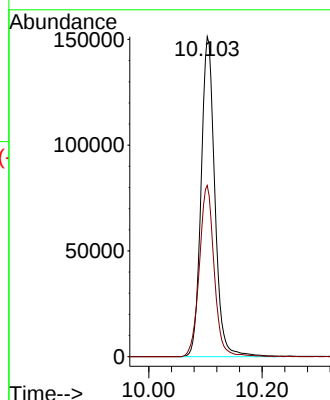
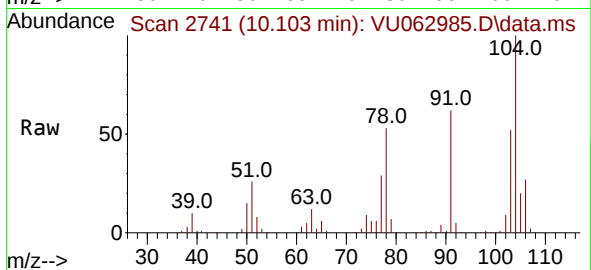
ClientSampleId :

Tgt Ion:104 Resp: 255167

Ion Ratio Lower Upper

104 100

78 53.5 35.5 65.9



#60

Isopropylbenzene

Concen: 2.738 ug/L

RT: 10.090 min Scan# 2737

Delta R.T. -0.383 min

Lab File: VU062985.D

Acq: 24 Jan 2025 11:50

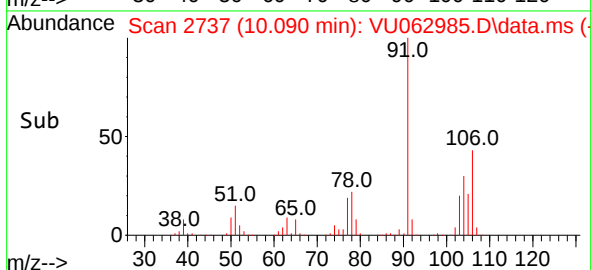
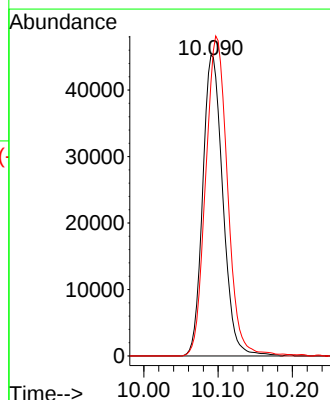
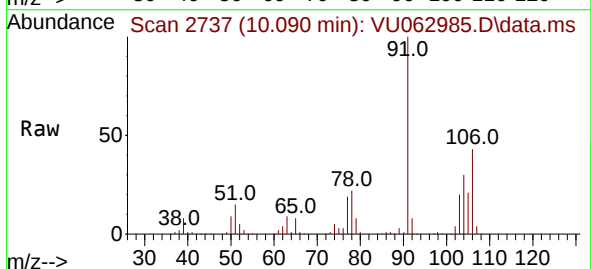
Tgt Ion:105 Resp: 85184

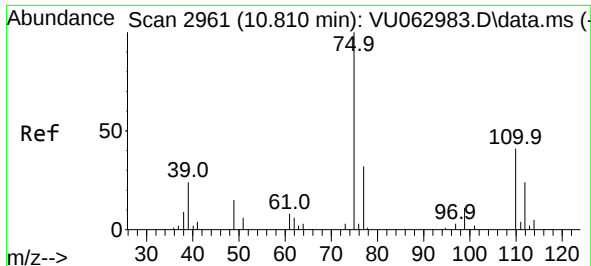
Ion Ratio Lower Upper

105 100

120 0.0 20.2 30.2#

77 115.2 13.0 19.4#

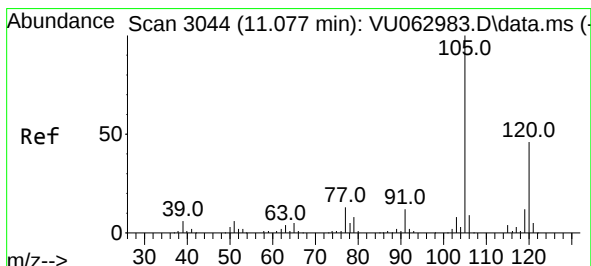
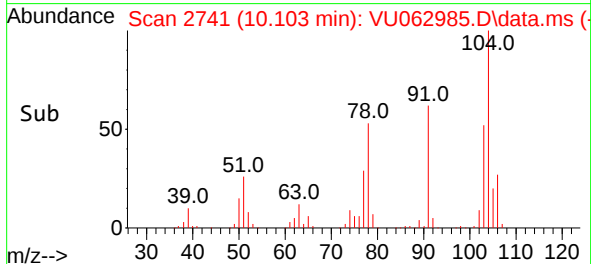
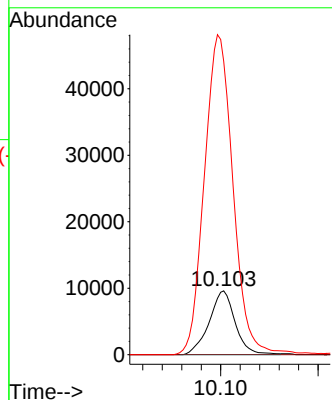
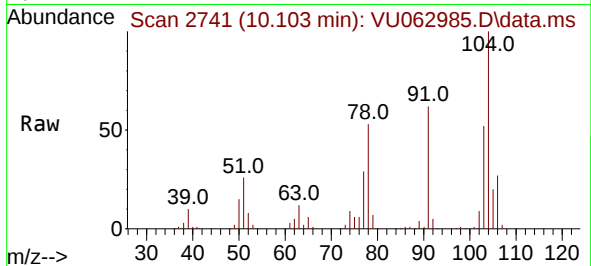




#61
1,2,3-Trichloropropane
Concen: 4.447 ug/L
RT: 10.103 min Scan# 21
Delta R.T. -0.707 min
Lab File: VU062985.D
Acq: 24 Jan 2025 11:50

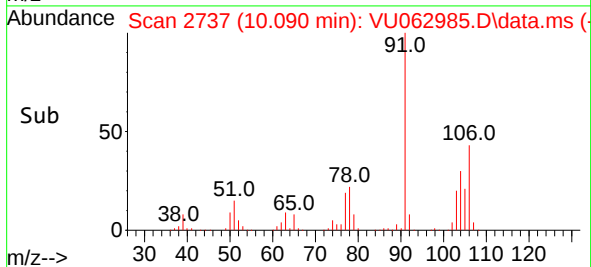
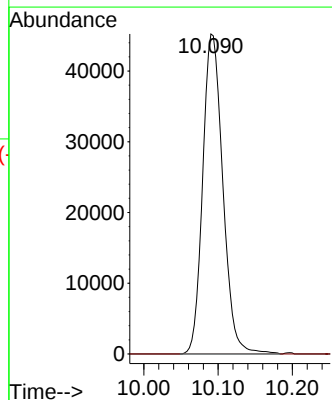
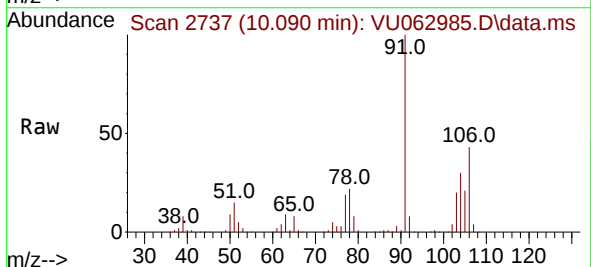
Instrument :
MSVOA_U
ClientSampleId :

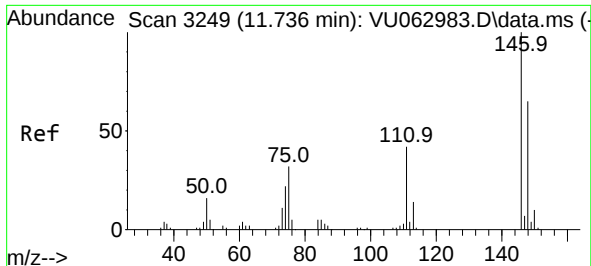
Tgt Ion: 75 Resp: 17810
Ion Ratio Lower Upper
75 100
110 0.0 33.2 49.8#
77 551.2 25.9 38.9#



#62
1,3,5-Trimethylbenzene
Concen: 3.221 ug/L
RT: 10.090 min Scan# 2737
Delta R.T. -0.987 min
Lab File: VU062985.D
Acq: 24 Jan 2025 11:50

Tgt Ion:105 Resp: 85184
Ion Ratio Lower Upper
105 100
120 0.0 35.9 53.9#

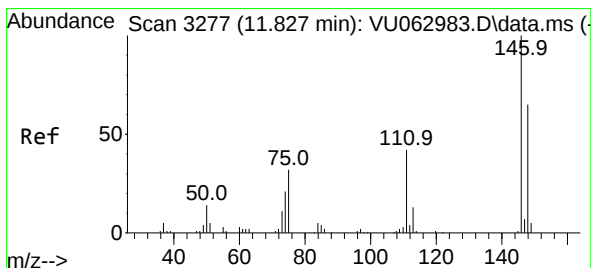
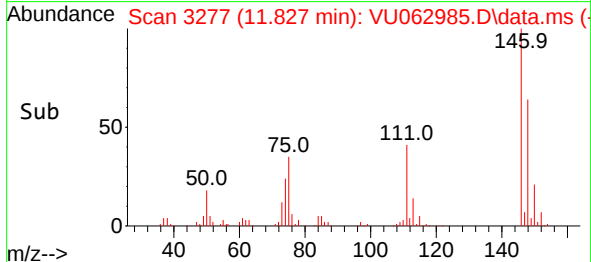
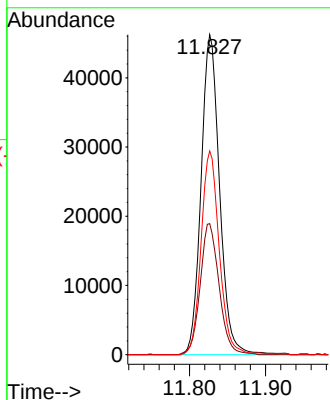
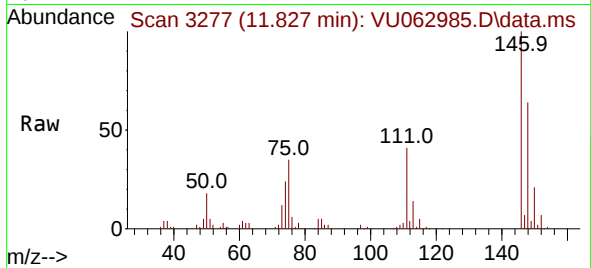




#64
 1,3-Dichlorobenzene
 Concen: 5.421 ug/L
 RT: 11.827 min Scan# 3277
 Delta R.T. 0.090 min
 Lab File: VU062985.D
 Acq: 24 Jan 2025 11:50

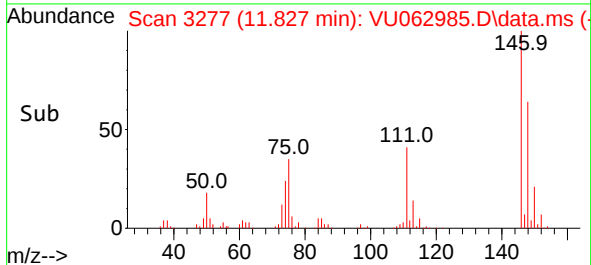
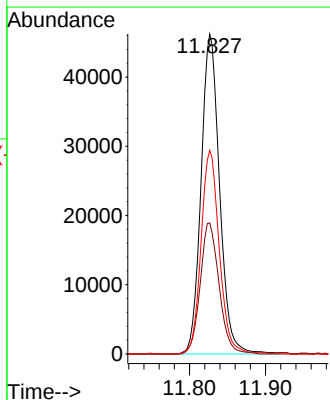
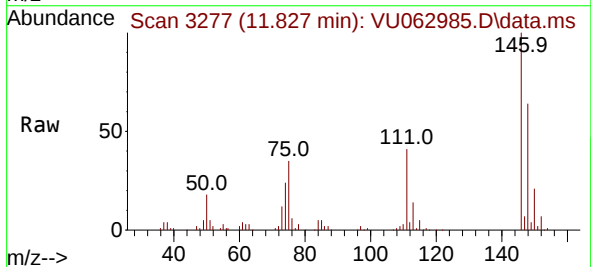
Instrument :
 MSVOA_U
 ClientSampleId :

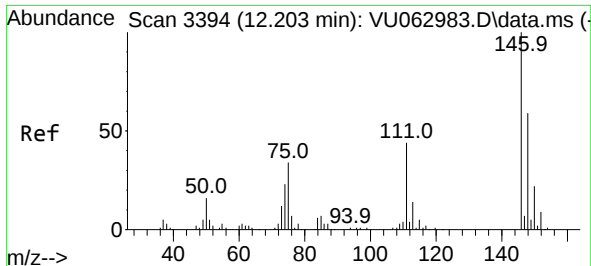
Tgt Ion:146 Resp: 78189
 Ion Ratio Lower Upper
 146 100
 111 41.0 28.6 53.0
 148 63.6 44.0 81.6



#65
 1,4-Dichlorobenzene
 Concen: 5.376 ug/L
 RT: 11.827 min Scan# 3277
 Delta R.T. 0.000 min
 Lab File: VU062985.D
 Acq: 24 Jan 2025 11:50

Tgt Ion:146 Resp: 78189
 Ion Ratio Lower Upper
 146 100
 111 41.0 29.5 54.9
 148 63.6 45.1 83.9





#67

1,2-Dichlorobenzene

Concen: 12.943 ug/L

RT: 12.200 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU062985.D

Acq: 24 Jan 2025 11:50

Instrument :

MSVOA_U

ClientSampleId :

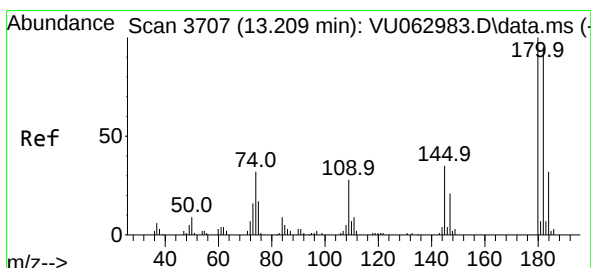
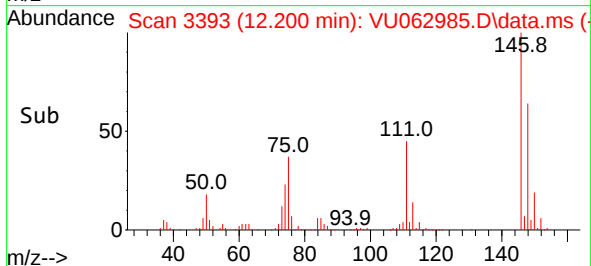
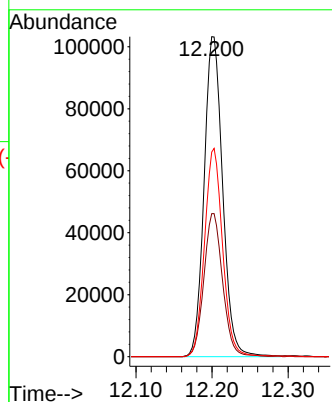
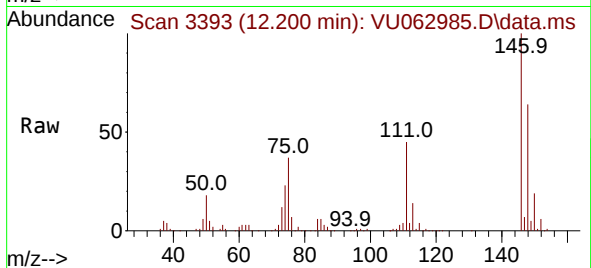
Tgt Ion:146 Resp: 174958

Ion Ratio Lower Upper

146 100

111 44.7 36.3 54.5

148 64.0 52.0 78.0



#69

1,3,5-Trichlorobenzene

Concen: 5.083 ug/L

RT: 13.833 min Scan# 3901

Delta R.T. 0.624 min

Lab File: VU062985.D

Acq: 24 Jan 2025 11:50

Tgt Ion:180 Resp: 55211

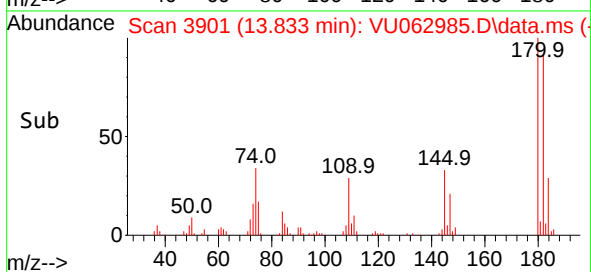
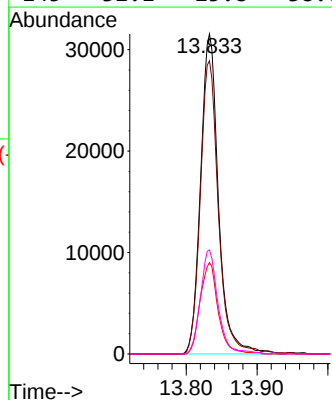
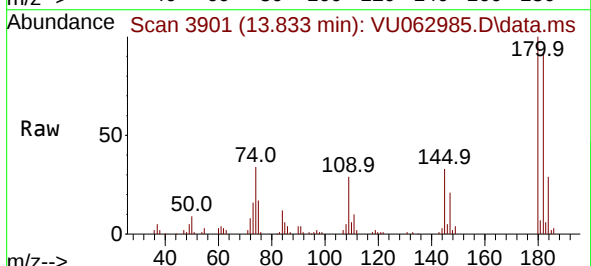
Ion Ratio Lower Upper

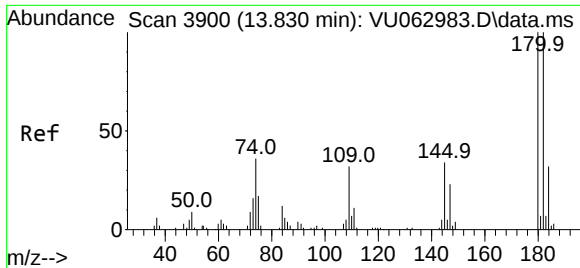
180 100

182 92.3 75.8 113.8

184 28.7 24.7 37.1

145 32.1 25.8 38.6





#70

1,2,4-trichlorobenzene

Concen: 6.311 ug/L

RT: 13.833 min Scan# 3901

Delta R.T. 0.003 min

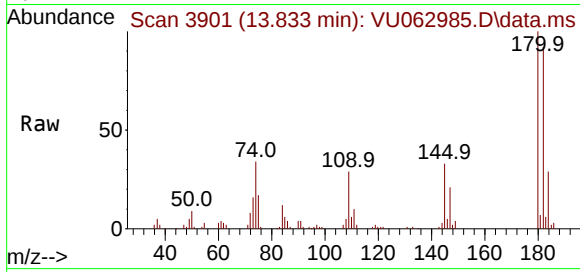
Lab File: VU062985.D

Acq: 24 Jan 2025 11:50

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 55211

Ion Ratio Lower Upper

180 100

182 92.3 77.1 115.7

145 32.1 26.9 40.3

