

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102824\
 Data File : VU061262.D
 Acq On : 28 Oct 2024 11:47
 Operator : MD/SY
 Sample : P4533-19
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 29 04:46:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR102324WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Oct 29 04:45:10 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	187948	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	174246	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	85411	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	49896	3.908	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.200%
7) Chloroethane-d5	1.911	69	44674	3.817	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	76.400%
11) 1,1-Dichloroethene-d2	2.560	65	22368	4.095	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.800%
20) 2-Butanone-d5	4.627	46	127842	49.319	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.640%
24) Chloroform-d	5.055	84	109023	4.499	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.000%
26) 1,2-Dichloroethane-d4	5.695	65	56765	4.699	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.000%
32) Benzene-d6	5.721	84	218154	4.443	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.800%
36) 1,2-Dichloropropane-d6	6.682	67	69449	4.705	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.000%
41) Toluene-d8	7.891	98	195666	4.262	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.200%
43) trans-1,3-Dichloroprop...	8.174	79	26925	4.469	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.400%
46) 2-Hexanone-d5	8.627	63	117344	47.549	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.100%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	53161	4.763	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.200%
66) 1,2-Dichlorobenzene-d4	12.187	152	70277	4.647	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	437270	30.099	ug/L	100
12) 1,1-Dichloroethene	2.576	96	120527	10.847	ug/L #	74
16) Methylene chloride	3.039	84	131255	10.024	ug/L	97
18) trans-1,2-Dichloroethene	3.348	96	97047	7.898	ug/L	94
22) cis-1,2-Dichloroethene	4.656	96	151677	10.807	ug/L	96
27) 1,2-Dichloroethane	5.785	62	194155	12.609	ug/L	100
29) 1,1,1-Trichloroethane	5.306	97	338169	15.849	ug/L	99
31) Carbon tetrachloride	5.515	117	128585	7.043	ug/L	97
33) Benzene	5.766	78	749121	13.901	ug/L	100
34) Trichloroethene	6.534	95	54029	3.686	ug/L	97
35) Methylcyclohexane	6.682	83	15919	0.682	ug/L #	40
37) 1,2-Dichloropropane	6.782	63	212150	15.532	ug/L	99
42) Toluene	7.962	91	621841	10.626	ug/L	98
45) 1,1,2-Trichloroethane	8.393	97	43492	4.425	ug/L	99
47) Tetrachloroethene	8.547	164	157608	15.394	ug/L	99
49) Dibromochloromethane	8.547	129	158438	14.211	ug/L #	12
51) Chlorobenzene	9.441	112	440574	11.911	ug/L	98
52) Ethylbenzene	9.563	91	997680	15.499	ug/L	100
53) m,p-Xylene	9.685	106	446299	18.199	ug/L	97

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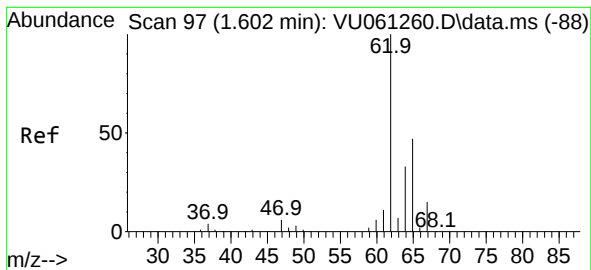
Instrument :
 MSVOA_U
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

54) o-Xylene	10.093	106	164120	6.781	ug/L	95
55) Styrene	10.106	104	264186	6.809	ug/L	99
60) Isopropylbenzene	10.093	105	89984	1.379	ug/L #	1
61) 1,2,3-Trichloropropane	10.103	75	15092	1.774	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.093	105	89984	1.694	ug/L #	29
64) 1,3-Dichlorobenzene	11.830	146	268023	9.760	ug/L	97
65) 1,4-Dichlorobenzene	11.830	146	268023	9.574	ug/L	99
67) 1,2-Dichlorobenzene	12.203	146	332405	12.861	ug/L	99
69) 1,3,5-Trichlorobenzene	13.833	180	292034	15.514	ug/L	99
70) 1,2,4-trichlorobenzene	13.833	180	292034	19.224	ug/L	98

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



#5

Vinyl chloride

Concen: 30.099 ug/L

RT: 1.602 min Scan# 91

Delta R.T. -0.000 min

Lab File: VU061262.D

Acq: 28 Oct 2024 11:47

Instrument :

MSVOA_U

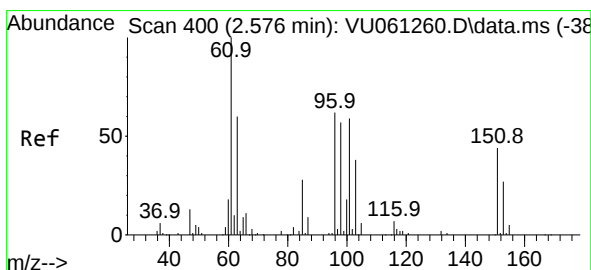
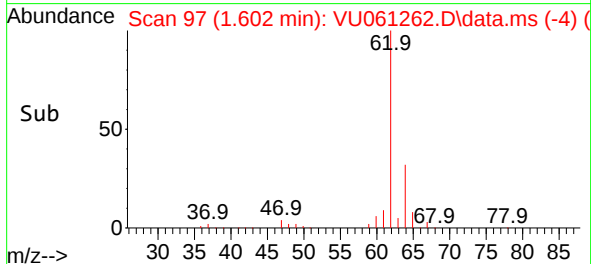
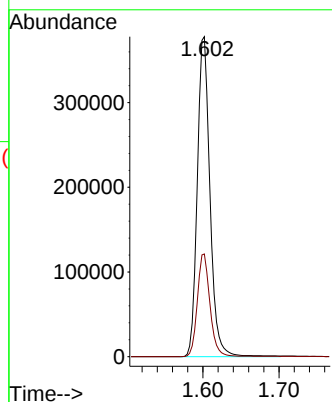
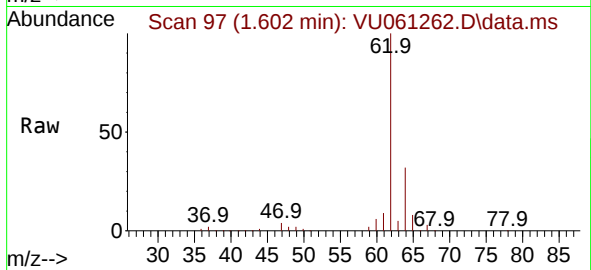
ClientSampleId :

Tgt Ion: 62 Resp: 437270

Ion Ratio Lower Upper

62 100

64 32.1 22.6 42.0



#12

1,1-Dichloroethene

Concen: 10.847 ug/L

RT: 2.576 min Scan# 400

Delta R.T. -0.000 min

Lab File: VU061262.D

Acq: 28 Oct 2024 11:47

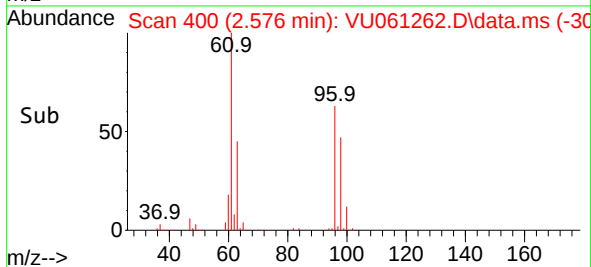
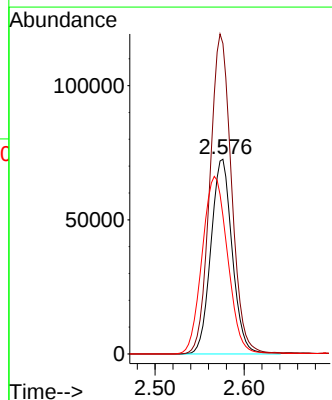
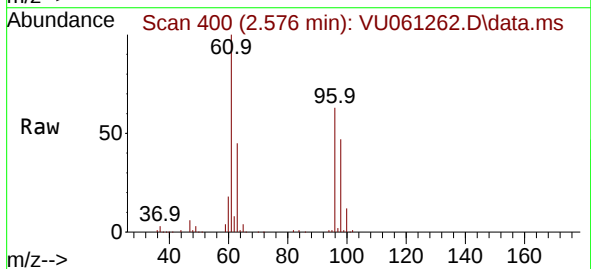
Tgt Ion: 96 Resp: 120527

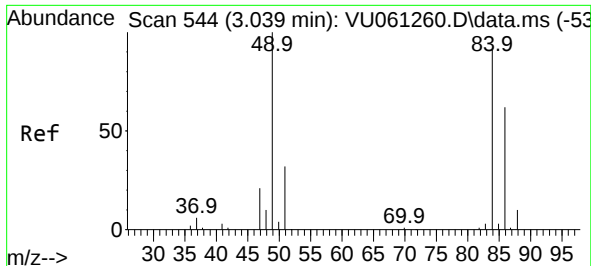
Ion Ratio Lower Upper

96 100

61 159.4 119.1 221.1

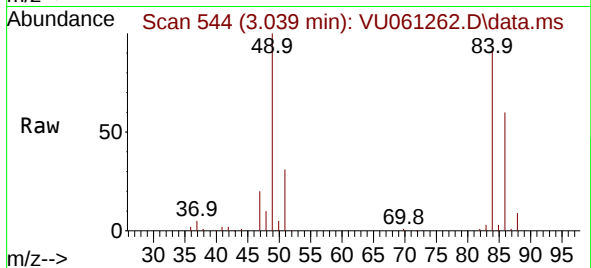
63 71.0 89.4 166.0#



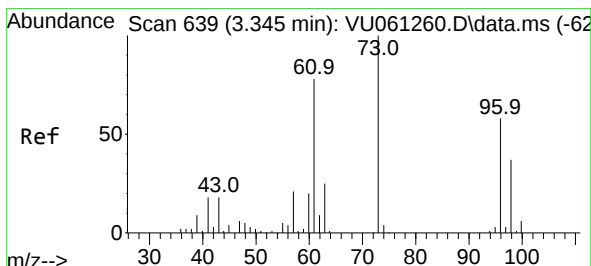
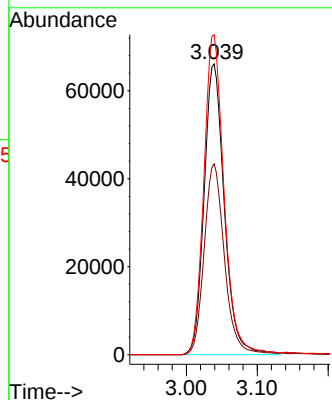
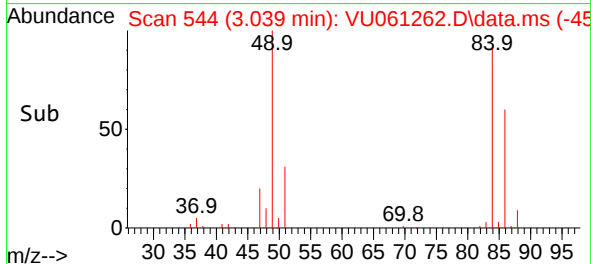


#16
Methylene chloride
Concen: 10.024 ug/L
RT: 3.039 min Scan# 54
Delta R.T. -0.000 min
Lab File: VU061262.D
Acq: 28 Oct 2024 11:47

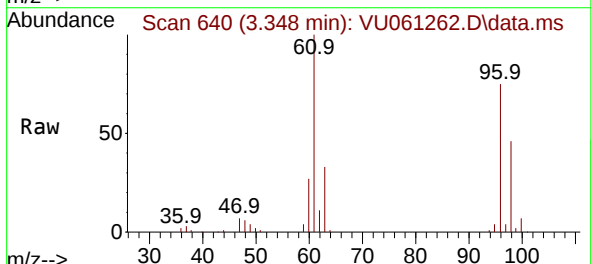
Instrument :
MSVOA_U
ClientSampleId :



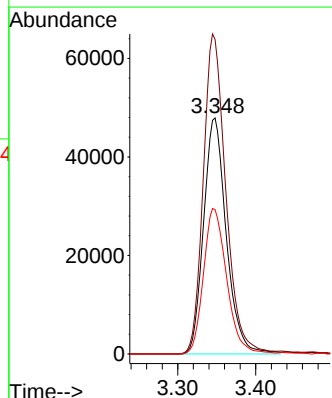
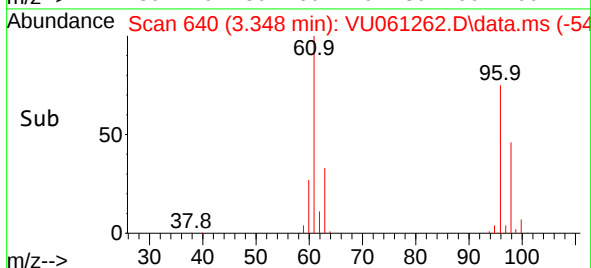
Tgt Ion: 84 Resp: 131255
Ion Ratio Lower Upper
84 100
86 65.7 43.5 80.7
49 110.1 75.7 140.7

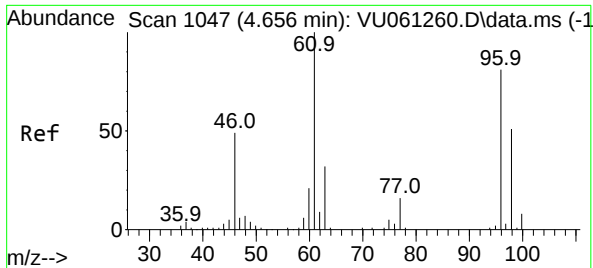


#18
trans-1,2-Dichloroethene
Concen: 7.898 ug/L
RT: 3.348 min Scan# 640
Delta R.T. 0.003 min
Lab File: VU061262.D
Acq: 28 Oct 2024 11:47



Tgt Ion: 96 Resp: 97047
Ion Ratio Lower Upper
96 100
61 133.3 97.9 181.7
98 61.1 46.2 85.8

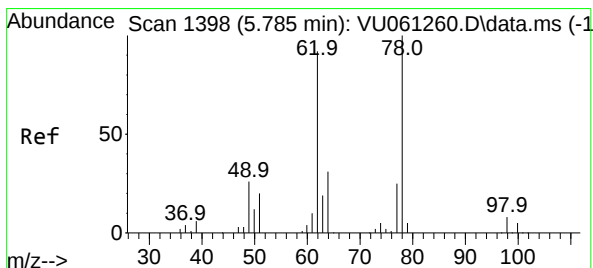
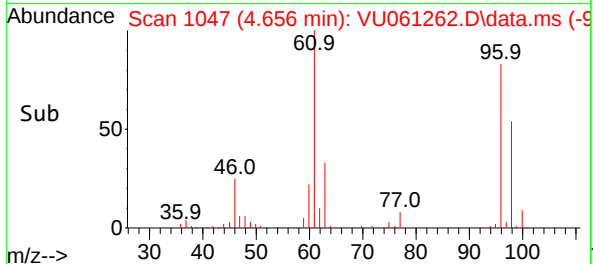
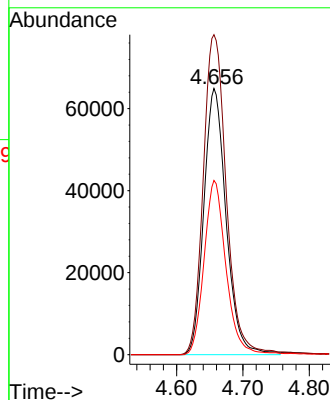
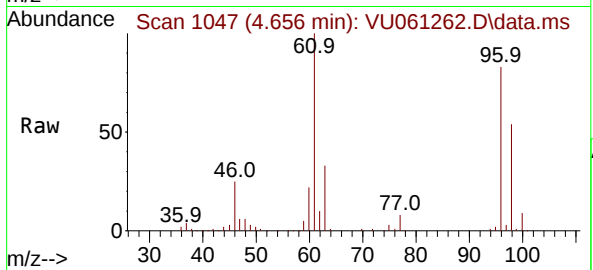




#22
 cis-1,2-Dichloroethene
 Concen: 10.807 ug/L
 RT: 4.656 min Scan# 1047
 Delta R.T. -0.000 min
 Lab File: VU061262.D
 Acq: 28 Oct 2024 11:47

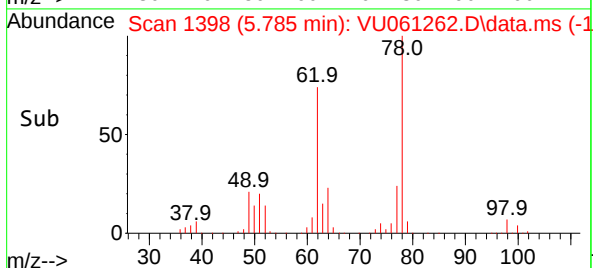
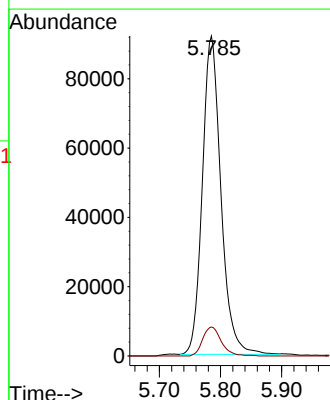
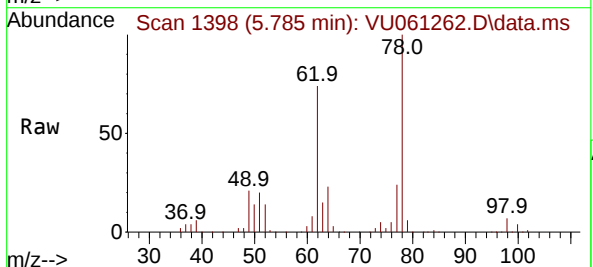
Instrument :
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 ClientSampleId :

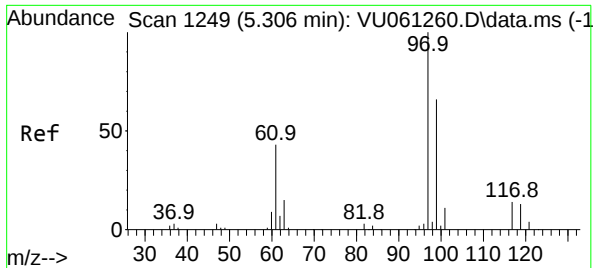
Tgt Ion: 96 Resp: 151677
 Ion Ratio Lower Upper
 96 100
 61 120.2 88.1 163.5
 98 65.5 45.0 83.6



#27
 1,2-Dichloroethane
 Concen: 12.609 ug/L
 RT: 5.785 min Scan# 1398
 Delta R.T. -0.000 min
 Lab File: VU061262.D
 Acq: 28 Oct 2024 11:47

Tgt Ion: 62 Resp: 194155
 Ion Ratio Lower Upper
 62 100
 98 9.1 7.4 11.0

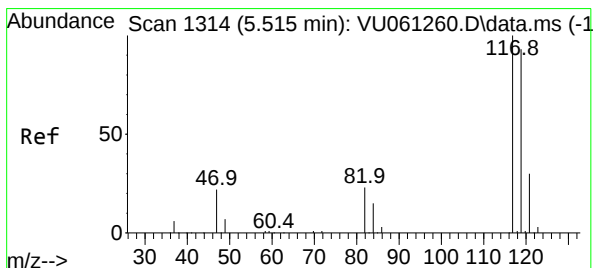
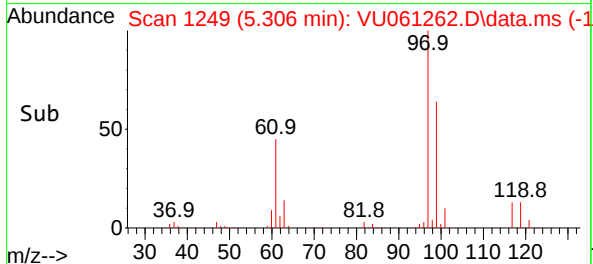
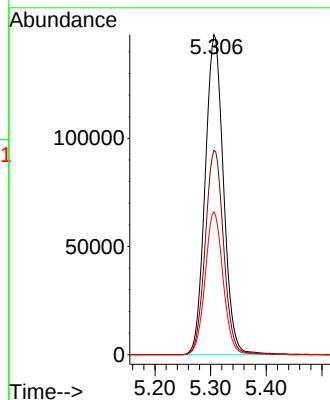
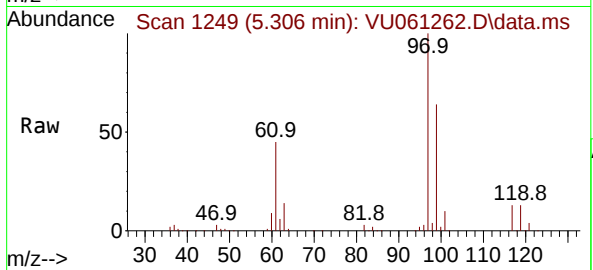




#29
1,1,1-Trichloroethane
Concen: 15.849 ug/L
RT: 5.306 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VU061262.D
Acq: 28 Oct 2024 11:47

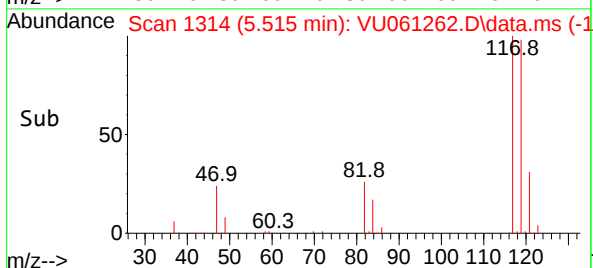
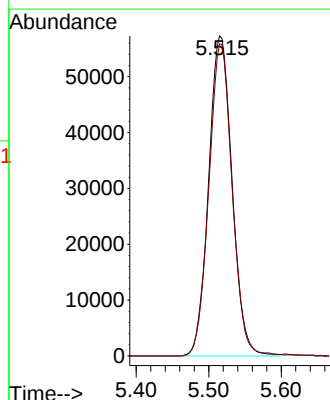
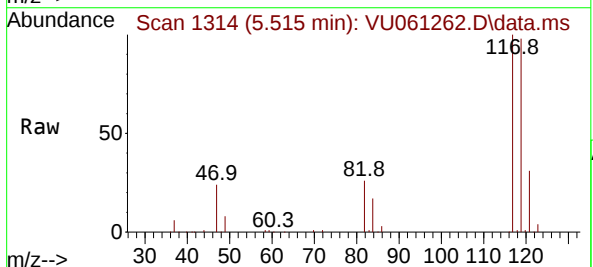
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MSVOA_U
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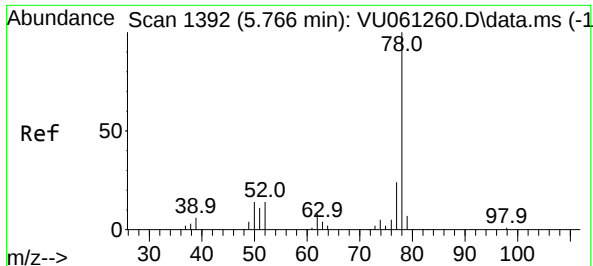
Tgt Ion: 97 Resp: 338169
Ion Ratio Lower Upper
97 100
99 64.3 50.8 76.2
61 43.9 36.1 54.1



#31
Carbon tetrachloride
Concen: 7.043 ug/L
RT: 5.515 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VU061262.D
Acq: 28 Oct 2024 11:47

Tgt Ion: 117 Resp: 128585
Ion Ratio Lower Upper
117 100
119 97.0 75.5 113.3

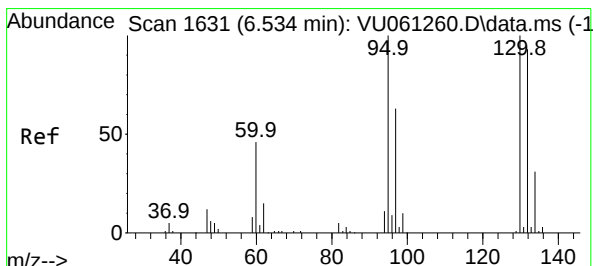
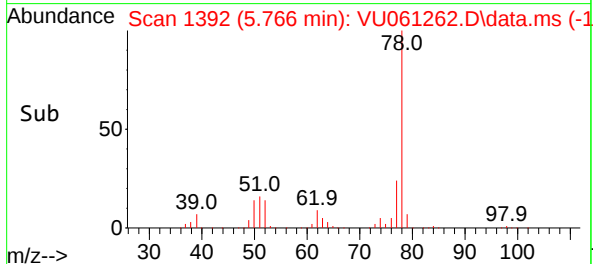
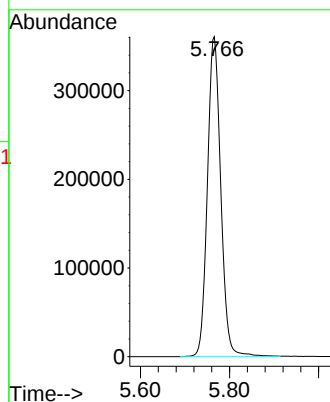
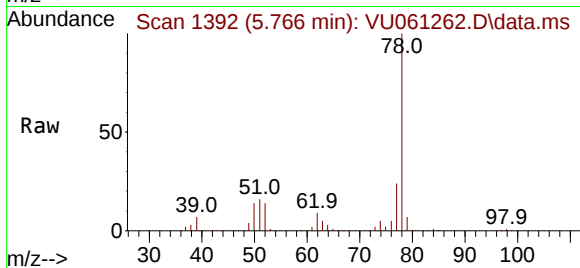




#33
Benzene
Concen: 13.901 ug/L
RT: 5.766 min Scan# 1392
Delta R.T. -0.000 min
Lab File: VU061262.D
Acq: 28 Oct 2024 11:47

Instrument :
MSVOA_U
ClientSampleId :

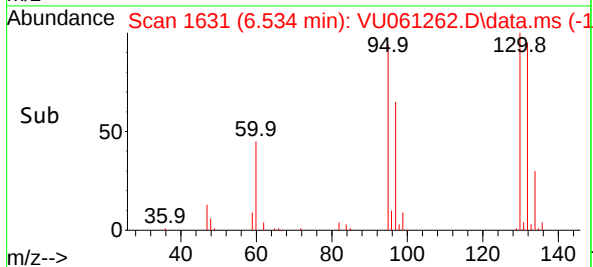
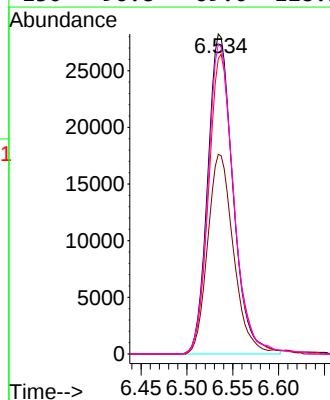
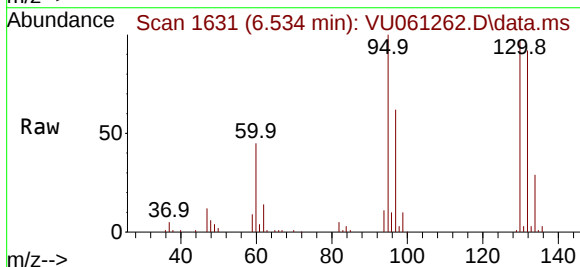
Tgt Ion: 78 Resp: 749121

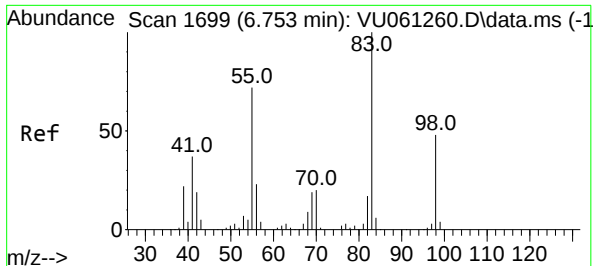


#34
Trichloroethene
Concen: 3.686 ug/L
RT: 6.534 min Scan# 1631
Delta R.T. -0.000 min
Lab File: VU061262.D
Acq: 28 Oct 2024 11:47

Tgt Ion: 95 Resp: 54029

Ion	Ratio	Lower	Upper
95	100		
97	62.4	46.1	85.7
132	92.3	66.1	122.7
130	96.8	69.0	128.2





#35

Methylcyclohexane

Concen: 0.682 ug/L

RT: 6.682 min Scan# 1

Delta R.T. -0.071 min

Lab File: VU061262.D

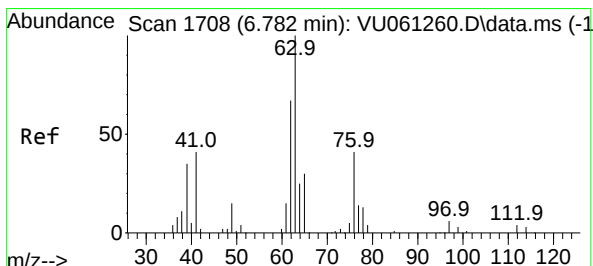
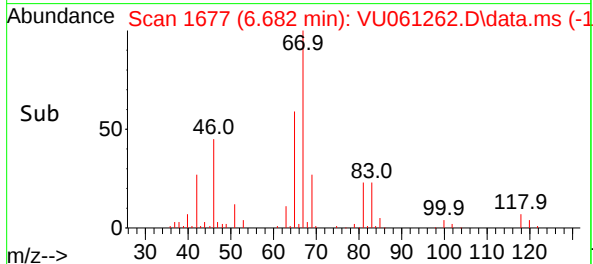
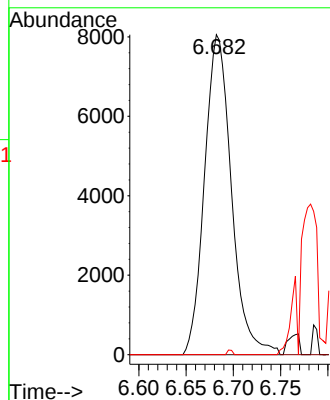
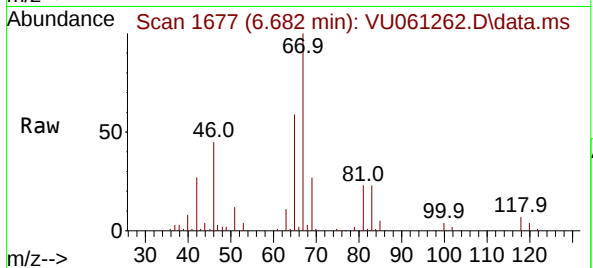
Acq: 28 Oct 2024 11:47

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 83	Resp: 15919
Ion Ratio	Lower Upper
83 100	
55 0.0	55.9 83.9#
98 31.9	35.9 53.9#



#37

1,2-Dichloropropane

Concen: 15.532 ug/L

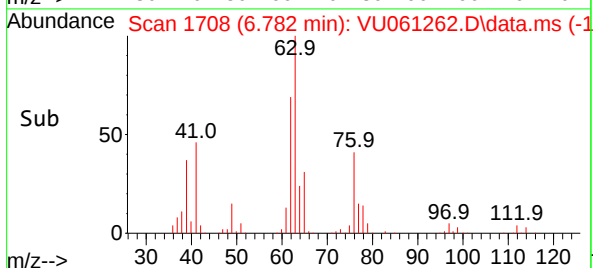
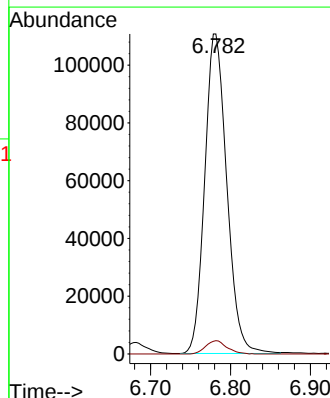
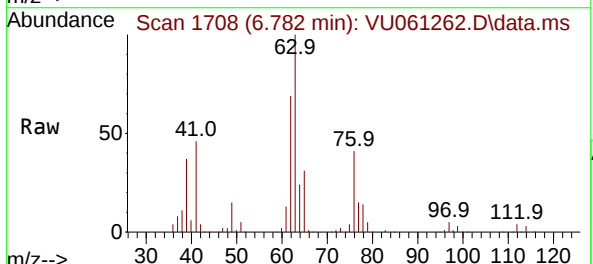
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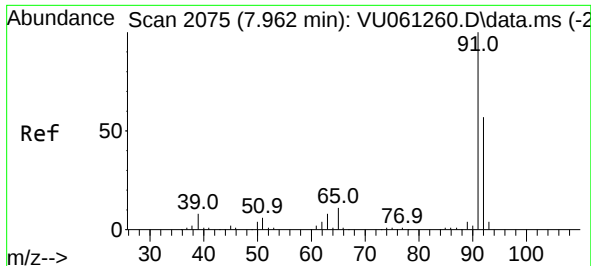
Delta R.T. -0.000 min

Lab File: VU061262.D

Acq: 28 Oct 2024 11:47

Tgt Ion: 63	Resp: 212150
Ion Ratio	Lower Upper
63 100	
112 4.0	3.0 4.4





#42

Toluene

Concen: 10.626 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. -0.000 min

Lab File: VU061262.D

Acq: 28 Oct 2024 11:47

Instrument :

MSVOA_U

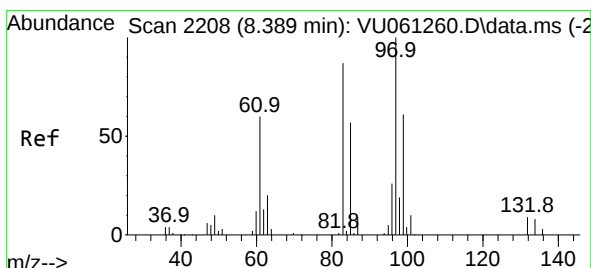
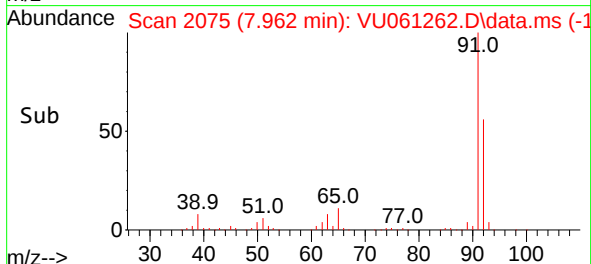
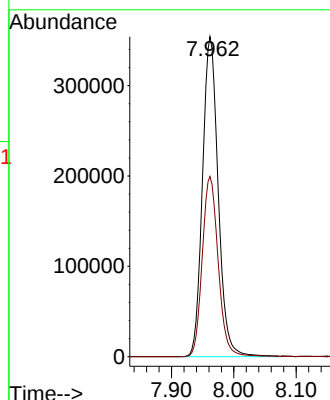
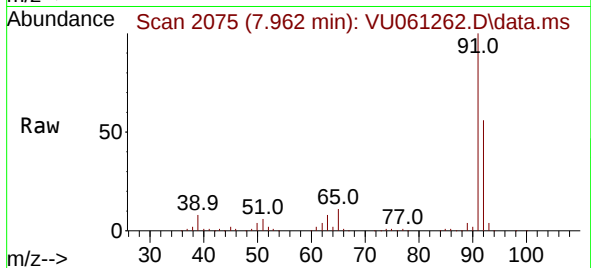
ClientSampleId :

Tgt Ion: 91 Resp: 621841

Ion Ratio Lower Upper

91 100

92 56.3 40.3 74.8



#45

1,1,2-Trichloroethane

Concen: 4.425 ug/L

RT: 8.393 min Scan# 2209

Delta R.T. 0.003 min

Lab File: VU061262.D

Acq: 28 Oct 2024 11:47

Tgt Ion: 97 Resp: 43492

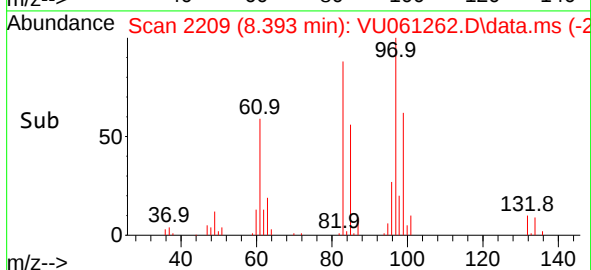
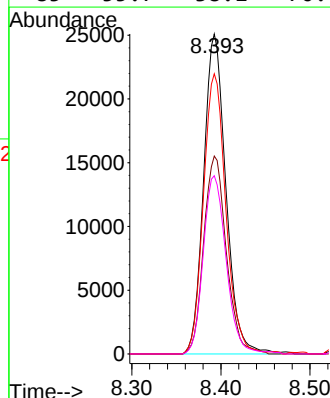
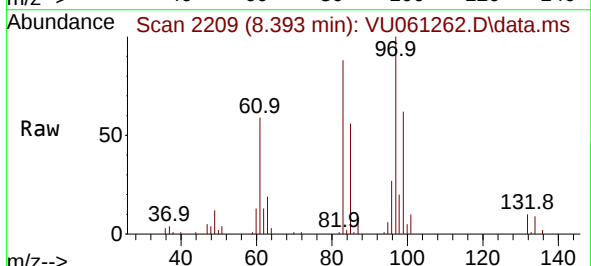
Ion Ratio Lower Upper

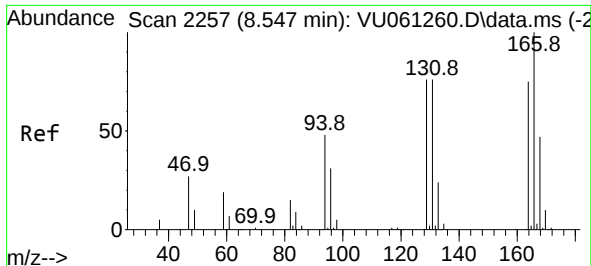
97 100

99 61.8 44.1 81.9

83 87.5 61.2 113.6

85 55.7 38.1 70.7





#47

Tetrachloroethene

Concen: 15.394 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.000 min

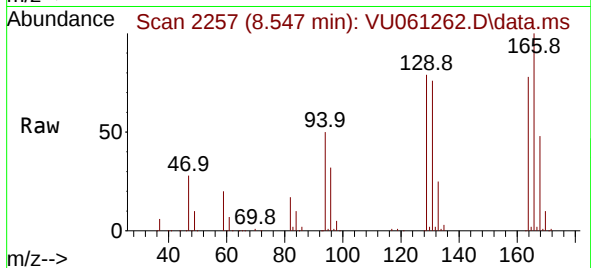
Lab File: VU061262.D

Acq: 28 Oct 2024 11:47

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 157608

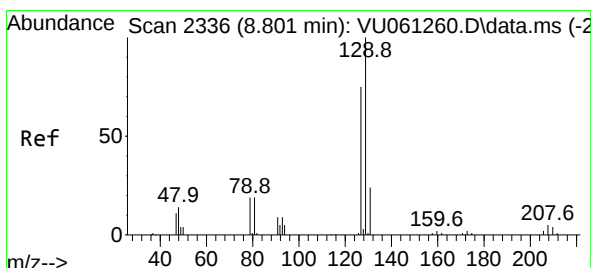
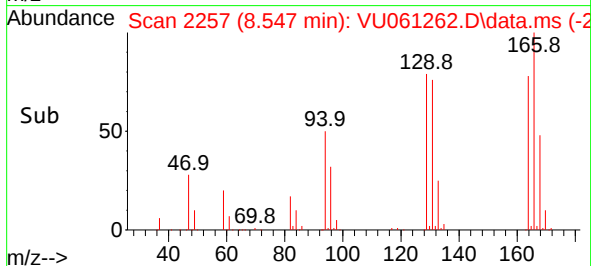
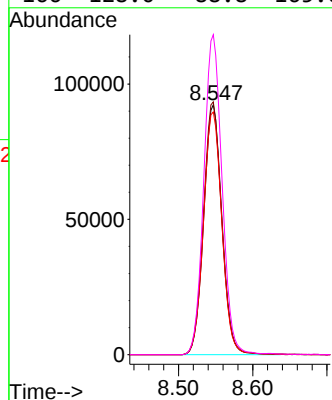
Ion Ratio Lower Upper

164 100

129 101.1 69.9 129.7

131 97.1 68.3 126.8

166 128.0 88.8 165.0



#49

Dibromochloromethane

Concen: 14.211 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.254 min

Lab File: VU061262.D

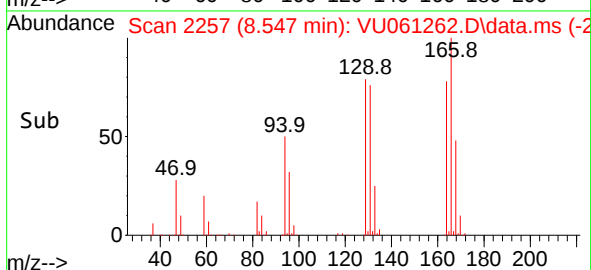
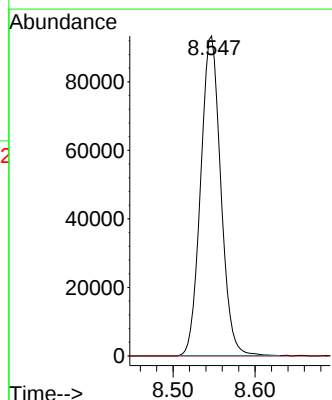
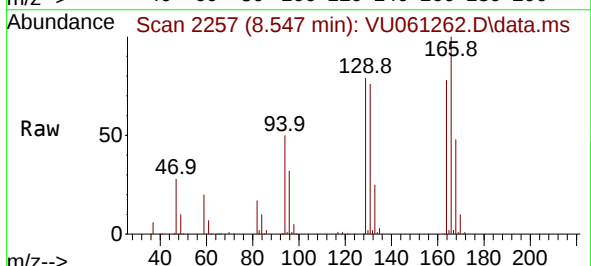
Acq: 28 Oct 2024 11:47

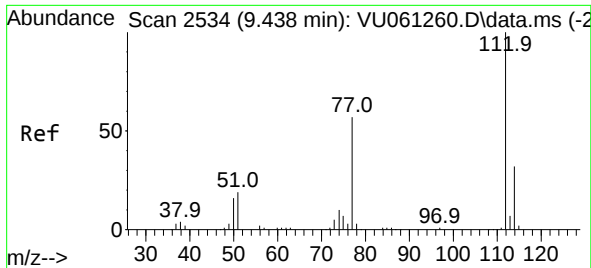
Tgt Ion:129 Resp: 158438

Ion Ratio Lower Upper

129 100

127 0.0 51.8 96.2#

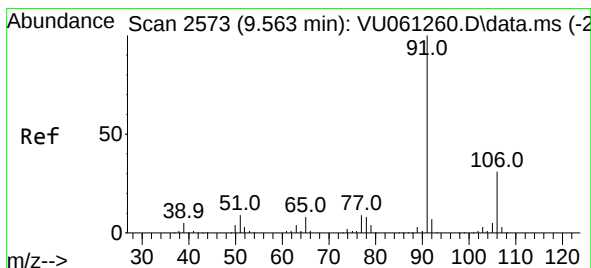
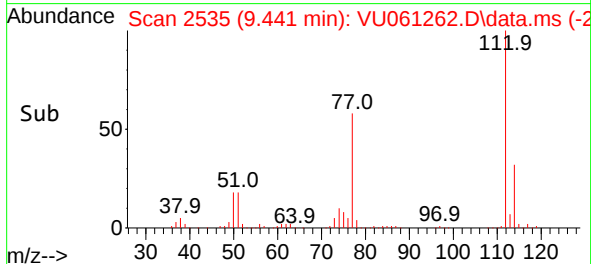
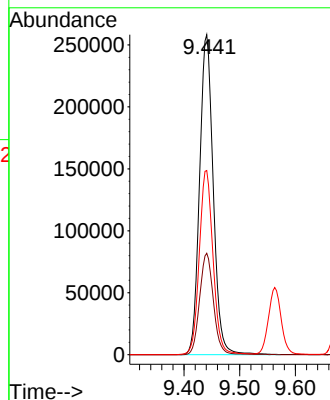
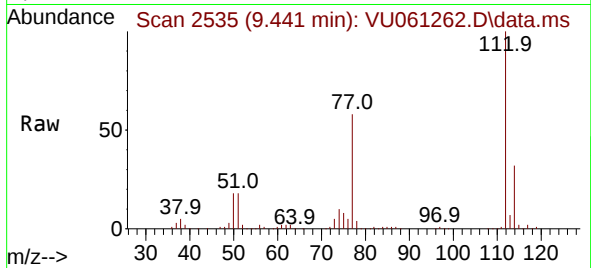




#51
Chlorobenzene
Concen: 11.911 ug/L
RT: 9.441 min Scan# 2535
Delta R.T. 0.003 min
Lab File: VU061262.D
Acq: 28 Oct 2024 11:47

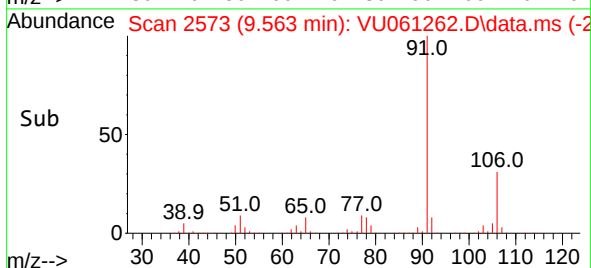
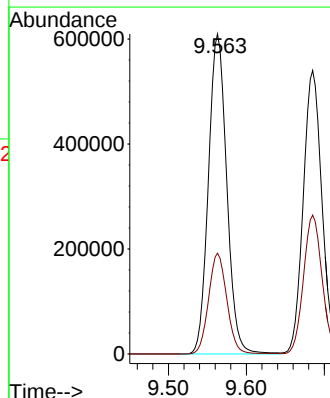
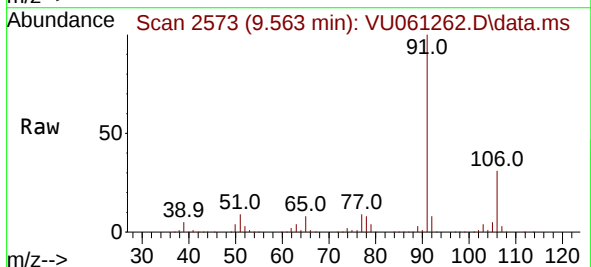
Instrument :
MSVOA_U
ClientSampleId :

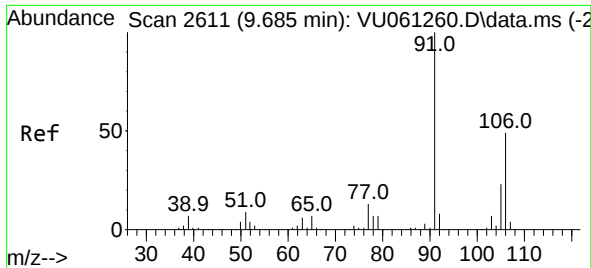
Tgt Ion:112 Resp: 440574
Ion Ratio Lower Upper
112 100
114 31.7 22.9 42.5
77 57.6 47.1 70.7



#52
Ethylbenzene
Concen: 15.499 ug/L
RT: 9.563 min Scan# 2573
Delta R.T. -0.000 min
Lab File: VU061262.D
Acq: 28 Oct 2024 11:47

Tgt Ion: 91 Resp: 997680
Ion Ratio Lower Upper
91 100
106 31.5 22.0 41.0

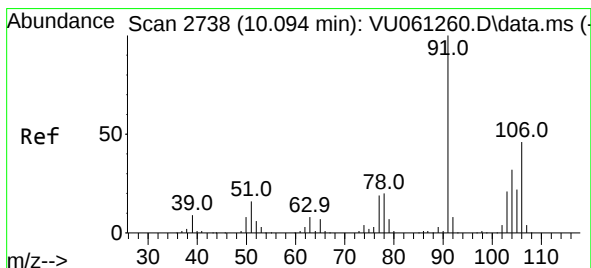
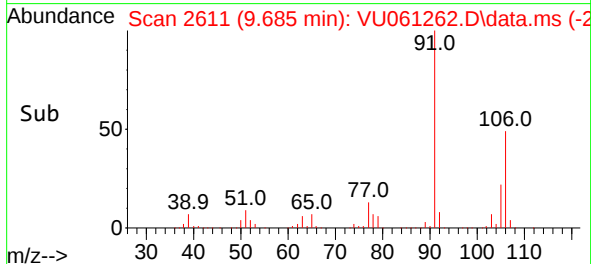
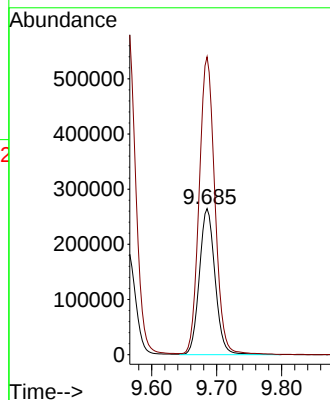
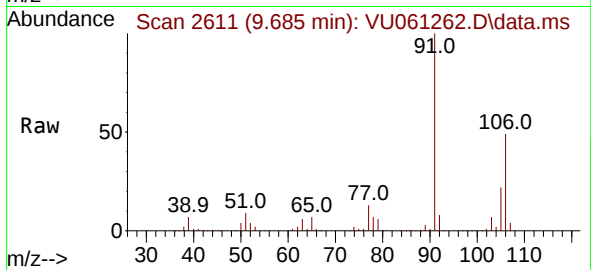




#53
m,p-Xylene
Concen: 18.199 ug/L
RT: 9.685 min Scan# 2611
Delta R.T. -0.000 min
Lab File: VU061262.D
Acq: 28 Oct 2024 11:47

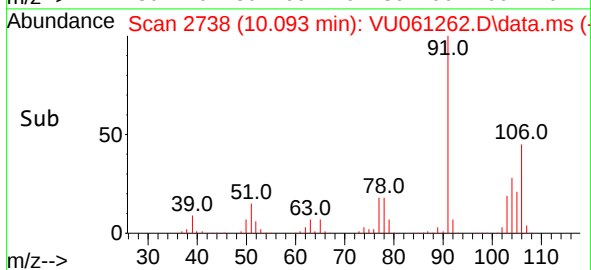
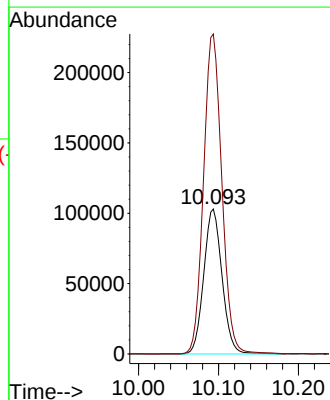
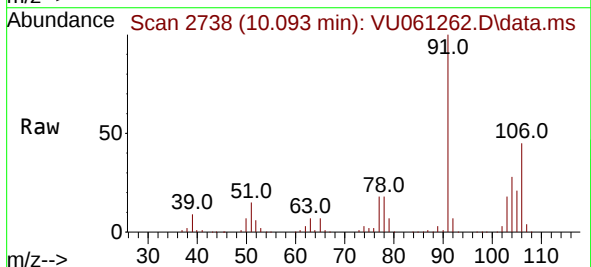
Instrument :
MSVOA_U
ClientSampleId :

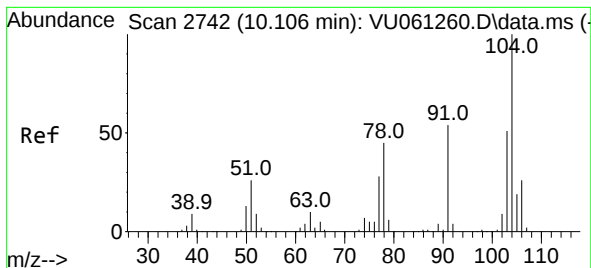
Tgt Ion:106 Resp: 446299
Ion Ratio Lower Upper
106 100
91 204.1 145.7 270.7



#54
o-Xylene
Concen: 6.781 ug/L
RT: 10.093 min Scan# 2738
Delta R.T. -0.000 min
Lab File: VU061262.D
Acq: 28 Oct 2024 11:47

Tgt Ion:106 Resp: 164120
Ion Ratio Lower Upper
106 100
91 220.8 148.8 276.4





#55

Styrene

Concen: 6.809 ug/L

RT: 10.106 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU061262.D

Acq: 28 Oct 2024 11:47

Instrument :

MSVOA_U

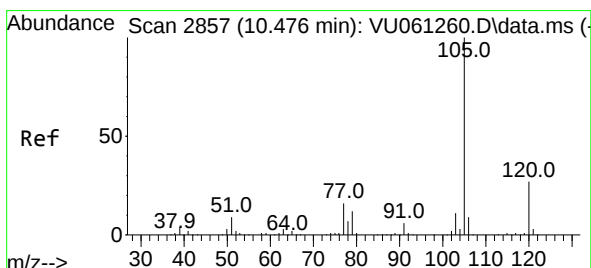
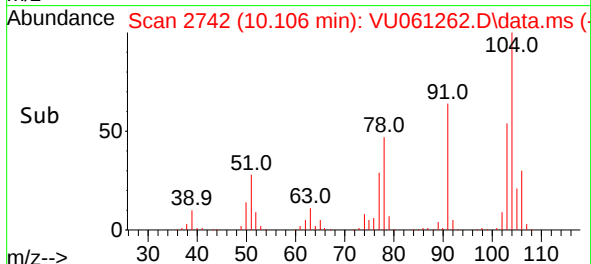
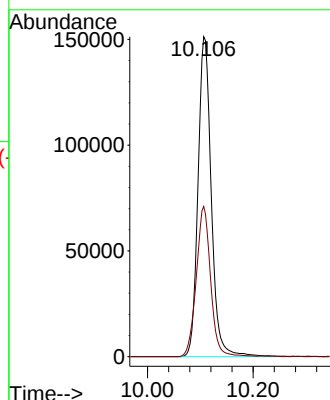
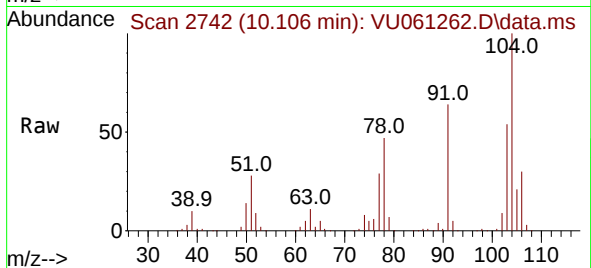
ClientSampleId :

Tgt Ion:104 Resp: 264186

Ion Ratio Lower Upper

104 100

78 47.0 32.3 59.9



#60

Isopropylbenzene

Concen: 1.379 ug/L

RT: 10.093 min Scan# 2738

Delta R.T. -0.383 min

Lab File: VU061262.D

Acq: 28 Oct 2024 11:47

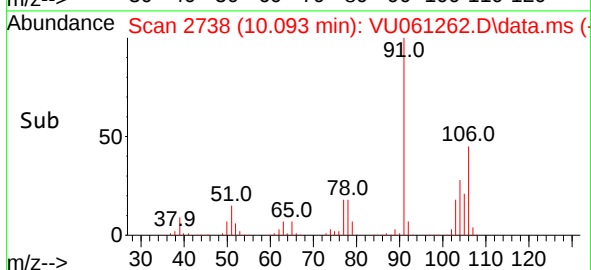
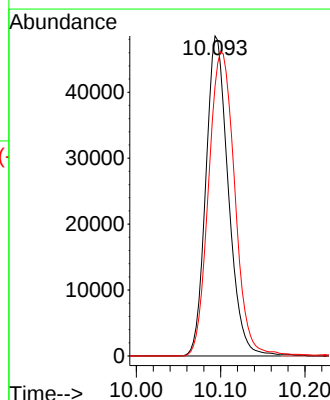
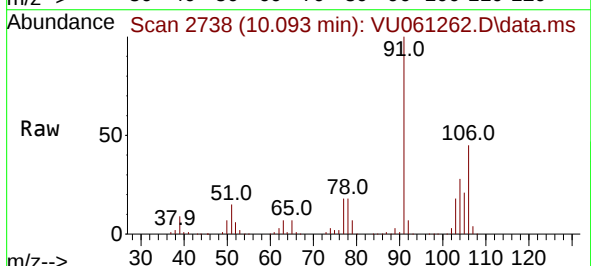
Tgt Ion:105 Resp: 89984

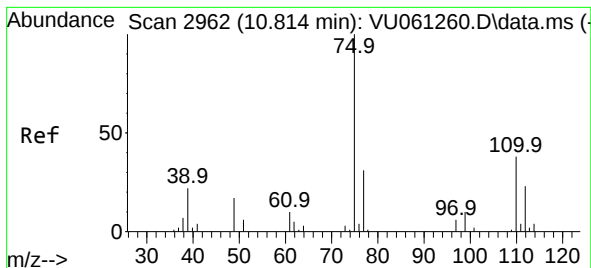
Ion Ratio Lower Upper

105 100

120 0.0 21.2 31.8#

77 110.7 12.6 19.0#





#61

1,2,3-Trichloropropane

Concen: 1.774 ug/L

RT: 10.103 min Scan# 21

Delta R.T. -0.711 min

Lab File: VU061262.D

Acq: 28 Oct 2024 11:47

Instrument :

MSVOA_U

ClientSampleId :

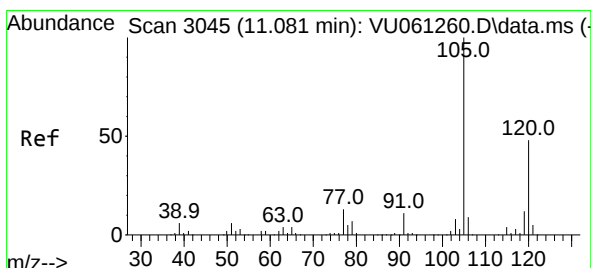
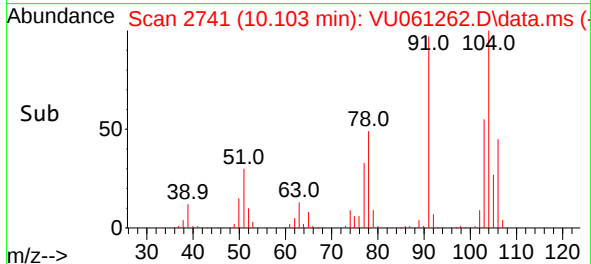
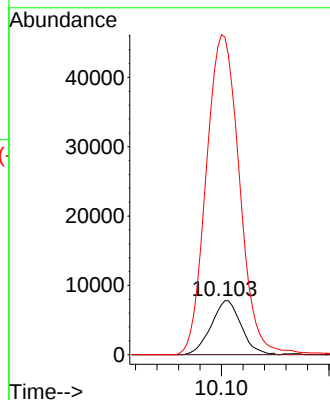
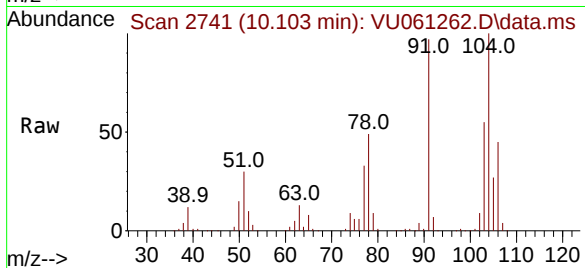
Tgt Ion: 75 Resp: 15092

Ion Ratio Lower Upper

75 100

110 0.0 28.8 43.2#

77 660.3 25.7 38.5#



#62

1,3,5-Trimethylbenzene

Concen: 1.694 ug/L

RT: 10.093 min Scan# 2738

Delta R.T. -0.987 min

Lab File: VU061262.D

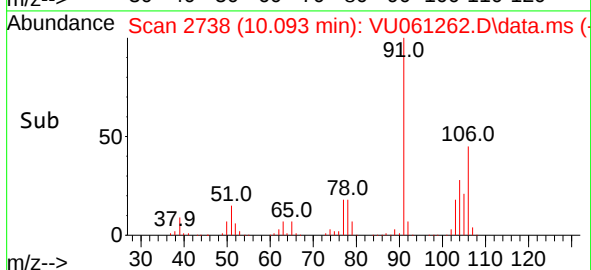
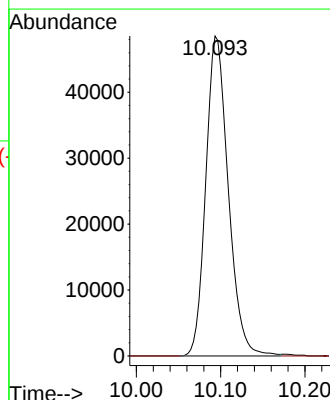
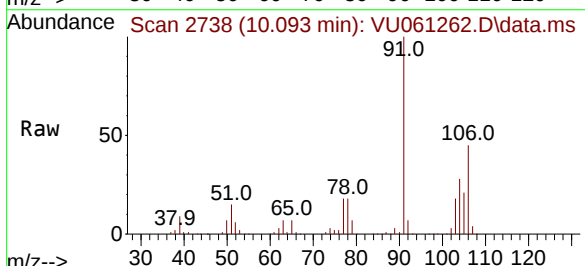
Acq: 28 Oct 2024 11:47

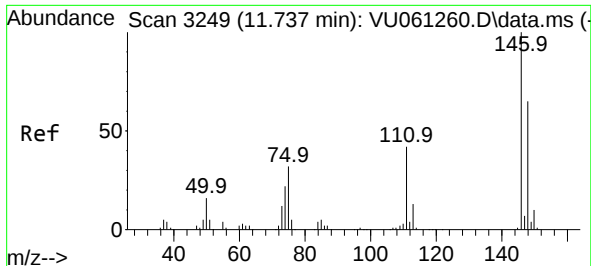
Tgt Ion: 105 Resp: 89984

Ion Ratio Lower Upper

105 100

120 0.0 38.7 58.1#

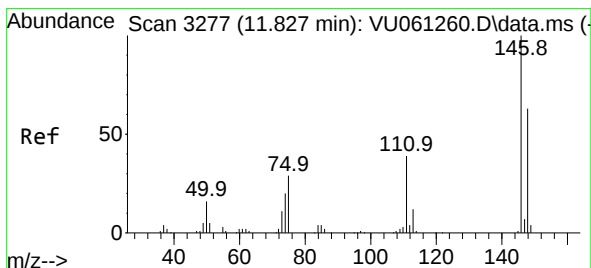
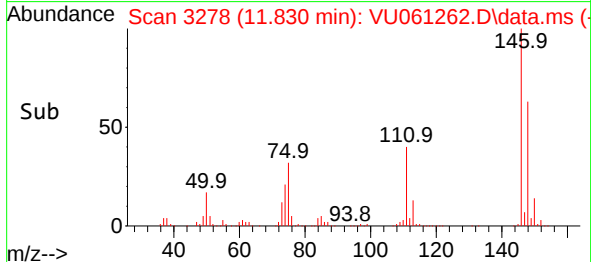
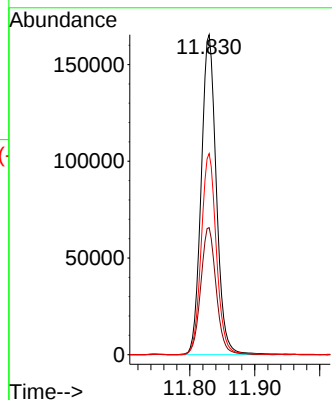
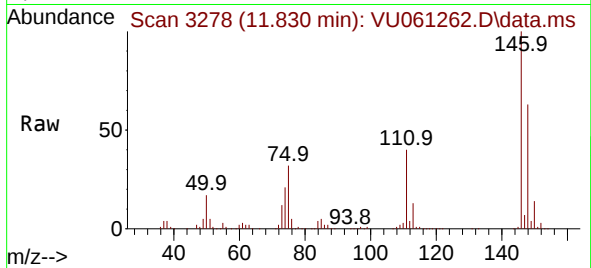




#64
1,3-Dichlorobenzene
Concen: 9.760 ug/L
RT: 11.830 min Scan# 31
Delta R.T. 0.093 min
Lab File: VU061262.D
Acq: 28 Oct 2024 11:47

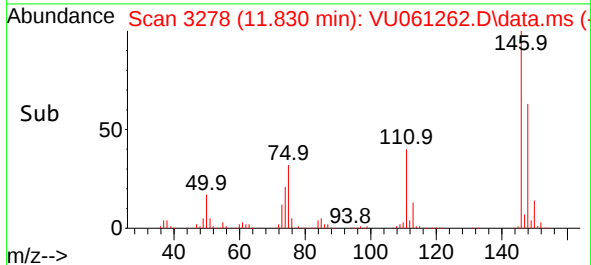
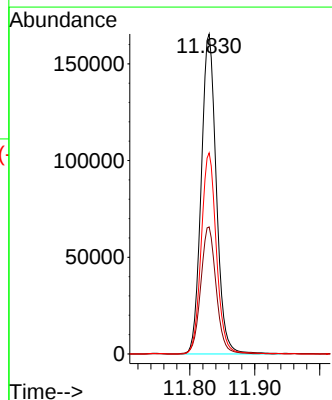
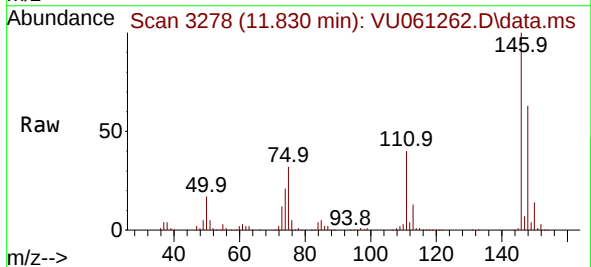
Instrument :
MSVOA_U
ClientSampleId :

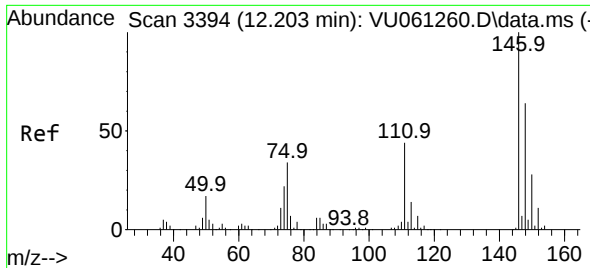
Tgt Ion:146 Resp: 268023
Ion Ratio Lower Upper
146 100
111 39.7 30.0 55.8
148 62.8 45.1 83.7



#65
1,4-Dichlorobenzene
Concen: 9.574 ug/L
RT: 11.830 min Scan# 3278
Delta R.T. 0.003 min
Lab File: VU061262.D
Acq: 28 Oct 2024 11:47

Tgt Ion:146 Resp: 268023
Ion Ratio Lower Upper
146 100
111 39.7 28.2 52.4
148 62.8 43.3 80.3

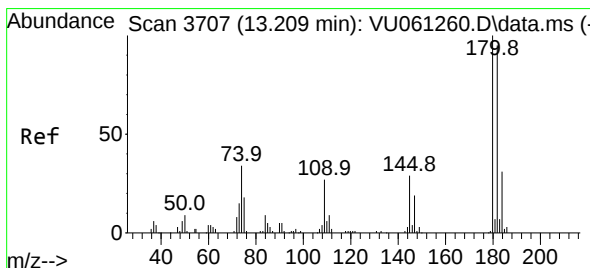
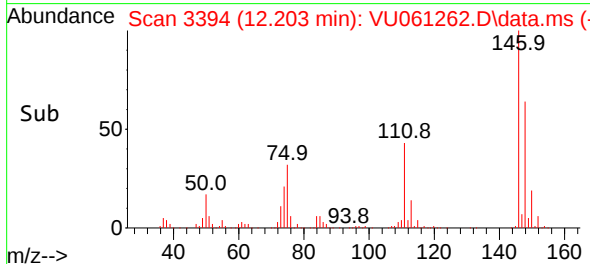
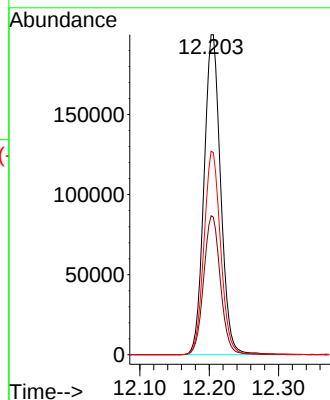
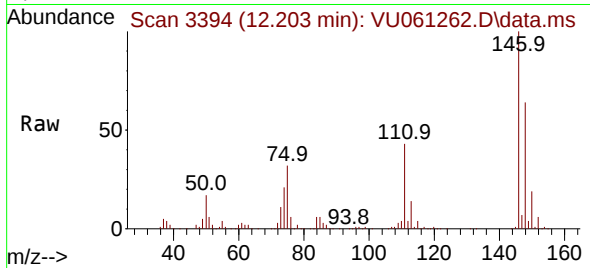




#67
1,2-Dichlorobenzene
Concen: 12.861 ug/L
RT: 12.203 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU061262.D
Acq: 28 Oct 2024 11:47

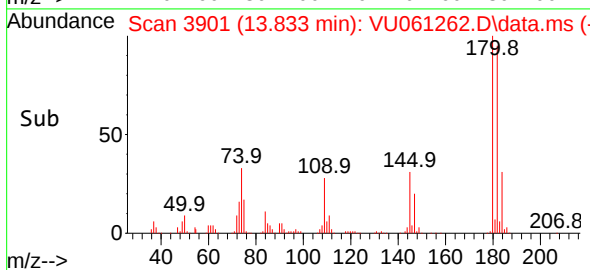
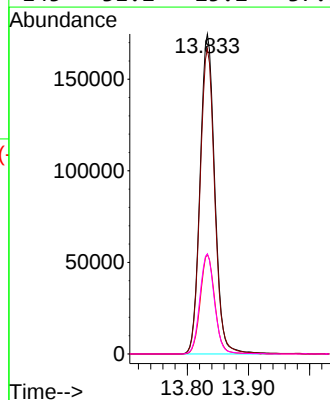
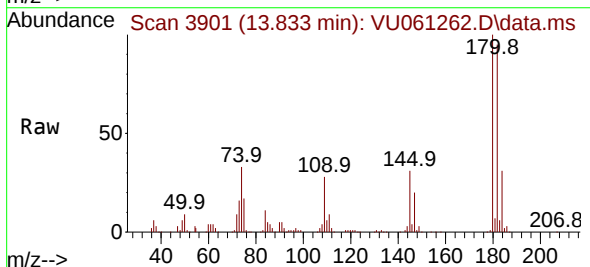
Instrument :
MSVOA_U
ClientSampleId :

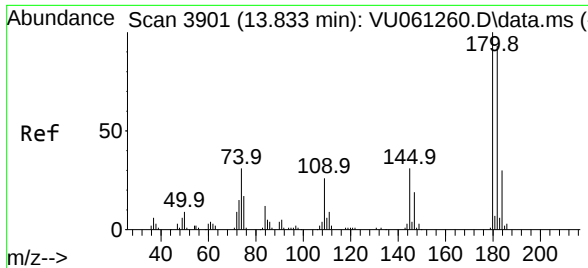
Tgt Ion:146 Resp: 332405
Ion Ratio Lower Upper
146 100
111 43.4 35.2 52.8
148 63.6 51.3 76.9



#69
1,3,5-Trichlorobenzene
Concen: 15.514 ug/L
RT: 13.833 min Scan# 3901
Delta R.T. 0.624 min
Lab File: VU061262.D
Acq: 28 Oct 2024 11:47

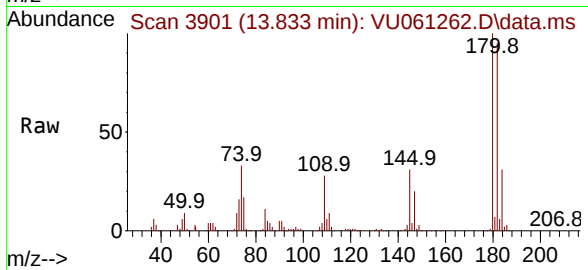
Tgt Ion:180 Resp: 292034
Ion Ratio Lower Upper
180 100
182 94.9 77.4 116.2
184 30.5 24.4 36.6
145 31.2 25.2 37.8





#70
 1,2,4-trichlorobenzene
 Concen: 19.224 ug/L
 RT: 13.833 min Scan# 3901
 Delta R.T. -0.000 min
 Lab File: VU061262.D
 Acq: 28 Oct 2024 11:47

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	180	Resp:	292034
Ion Ratio	Lower	Upper	
180	100		
182	94.9	77.2	115.8
145	31.2	25.6	38.4

