

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102824\
 Data File : VU061264.D
 Acq On : 28 Oct 2024 13:12
 Operator : MD/SY
 Sample : P4533-19DL 2X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 29 04:47:14 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	188519	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	170865	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.805	152	79590	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	44356	3.464	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	69.200%
7) Chloroethane-d5	1.908	69	39680	3.380	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	67.600%
11) 1,1-Dichloroethene-d2	2.561	65	19359	3.533	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.600%
20) 2-Butanone-d5	4.631	46	116473	44.797	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	89.600%
24) Chloroform-d	5.052	84	97299	4.003	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.000%
26) 1,2-Dichloroethane-d4	5.695	65	51972	4.290	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.800%
32) Benzene-d6	5.718	84	192634	4.001	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.000%
36) 1,2-Dichloropropane-d6	6.683	67	61759	4.267	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	85.400%
41) Toluene-d8	7.891	98	171026	3.799	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.000%
43) trans-1,3-Dichloroprop...	8.174	79	23509	3.979	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.600%
46) 2-Hexanone-d5	8.628	63	109375	45.197	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.400%
56) 1,1,2,2-Tetrachloroeth...	10.747	84	48554	4.436	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.800%
66) 1,2-Dichlorobenzene-d4	12.184	152	60926	4.323	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.400%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.599	62	203227	13.947	ug/L	99
12) 1,1-Dichloroethene	2.573	96	53601	4.809	ug/L	91
16) Methylene chloride	3.040	84	64608	4.919	ug/L	95
18) trans-1,2-Dichloroethene	3.348	96	45349	3.680	ug/L	96
22) cis-1,2-Dichloroethene	4.657	96	71444	5.075	ug/L	100
27) 1,2-Dichloroethane	5.785	62	92532	5.991	ug/L	100
29) 1,1,1-Trichloroethane	5.306	97	154864	7.401	ug/L	98
31) Carbon tetrachloride	5.515	117	58247	3.253	ug/L	98
33) Benzene	5.763	78	355654	6.730	ug/L	100
34) Trichloroethene	6.535	95	25160	1.750	ug/L	97
37) 1,2-Dichloropropane	6.779	63	103059	7.694	ug/L	99
42) Toluene	7.962	91	288103	5.021	ug/L	100
45) 1,1,2-Trichloroethane	8.393	97	21119	2.191	ug/L	97
47) Tetrachloroethene	8.544	164	71699	7.142	ug/L	98
49) Dibromochloromethane	8.544	129	72836	6.662	ug/L #	12
51) Chlorobenzene	9.438	112	203182	5.602	ug/L	99
52) Ethylbenzene	9.563	91	451632	7.155	ug/L	100
53) m,p-Xylene	9.682	106	200912	8.355	ug/L	96
54) o-Xylene	10.094	106	75110	3.165	ug/L	97

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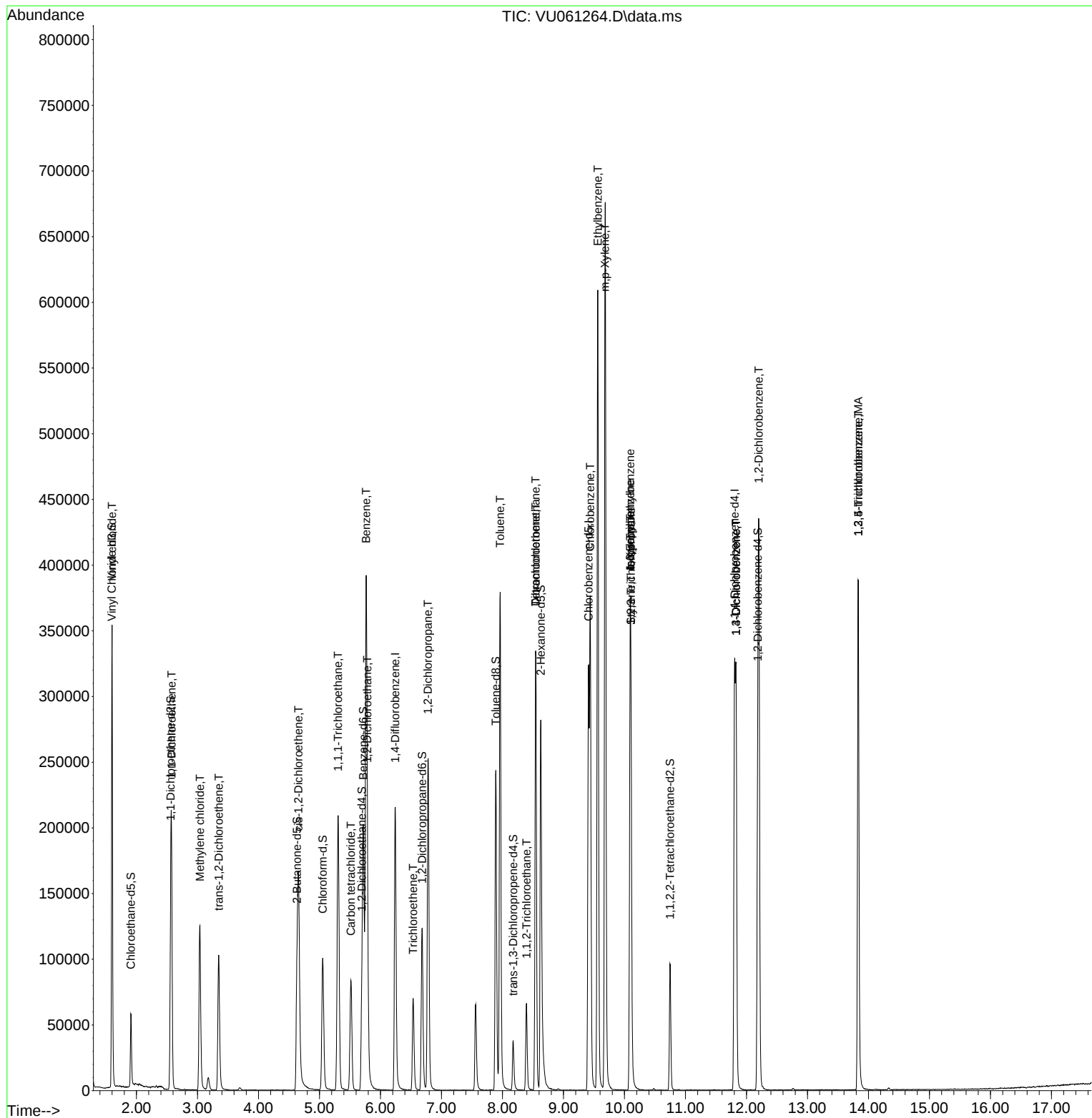
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	10.107	104	117138	3.079	ug/L	99
60) Isopropylbenzene	10.094	105	41545	0.683	ug/L #	1
61) 1,2,3-Trichloropropane	10.107	75	6778	0.855	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.094	105	41545	0.839	ug/L #	29
64) 1,3-Dichlorobenzene	11.830	146	121206	4.737	ug/L	97
65) 1,4-Dichlorobenzene	11.830	146	121206	4.646	ug/L	99
67) 1,2-Dichlorobenzene	12.203	146	151635	6.296	ug/L	99
69) 1,3,5-Trichlorobenzene	13.833	180	122993	7.012	ug/L	100
70) 1,2,4-trichlorobenzene	13.833	180	122993	8.689	ug/L	100

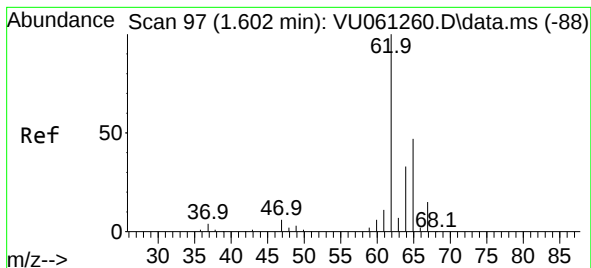
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 13.947 ug/L

RT: 1.599 min Scan# 9

Delta R.T. -0.003 min

Lab File: VU061264.D

Acq: 28 Oct 2024 13:12

Instrument :

MSVOA_U

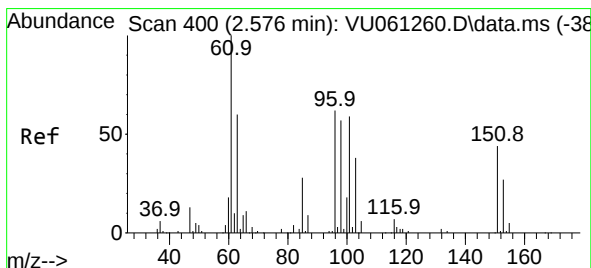
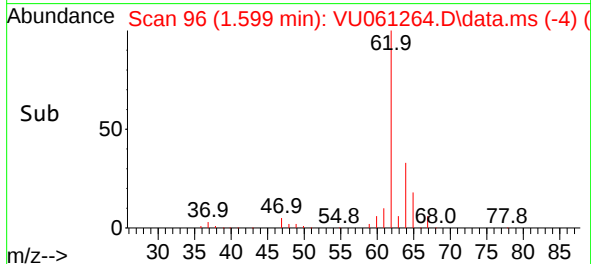
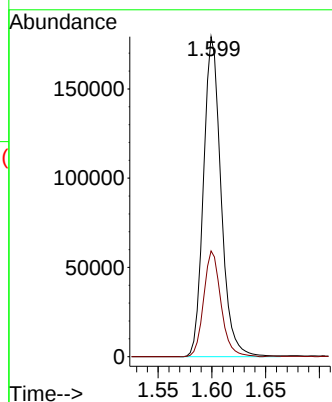
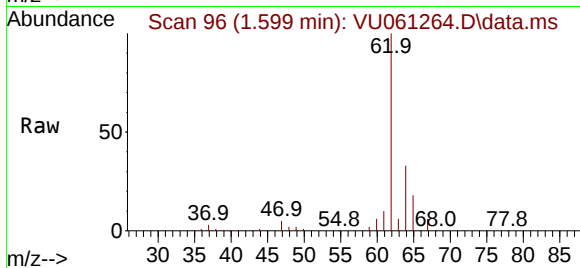
ClientSampleId :

Tgt Ion: 62 Resp: 203227

Ion Ratio Lower Upper

62 100

64 33.0 22.6 42.0



#12

1,1-Dichloroethene

Concen: 4.809 ug/L

RT: 2.573 min Scan# 399

Delta R.T. -0.003 min

Lab File: VU061264.D

Acq: 28 Oct 2024 13:12

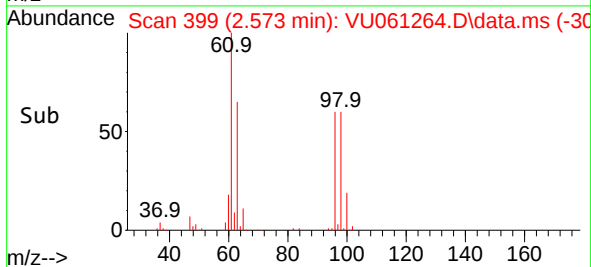
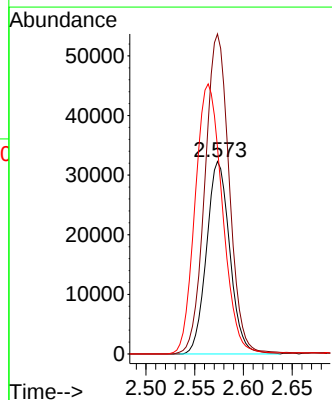
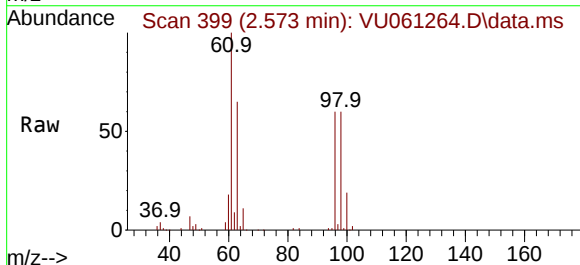
Tgt Ion: 96 Resp: 53601

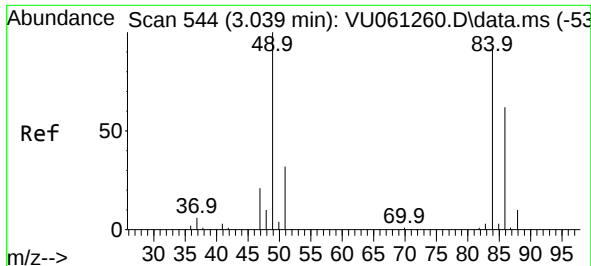
Ion Ratio Lower Upper

96 100

61 166.2 119.1 221.1

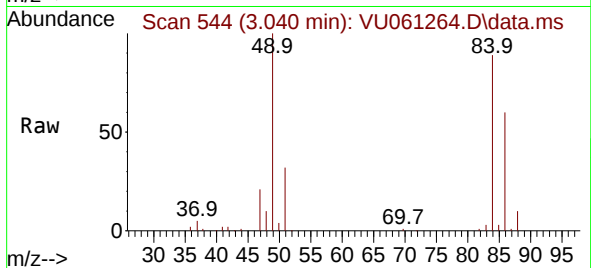
63 107.3 89.4 166.0



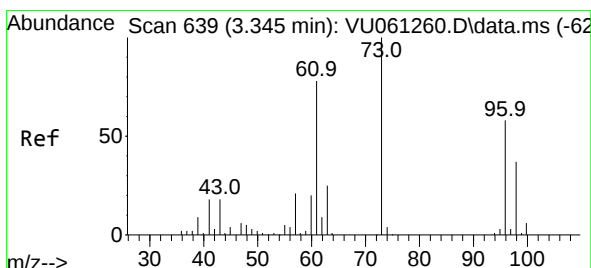
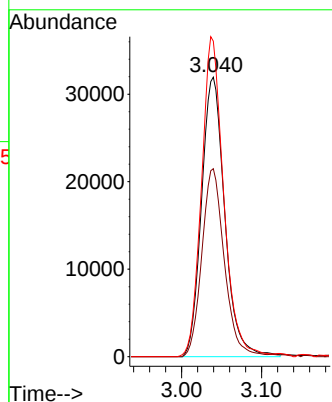
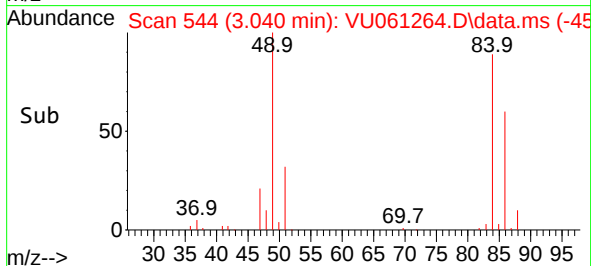


#16
Methylene chloride
Concen: 4.919 ug/L
RT: 3.040 min Scan# 54
Delta R.T. 0.000 min
Lab File: VU061264.D
Acq: 28 Oct 2024 13:12

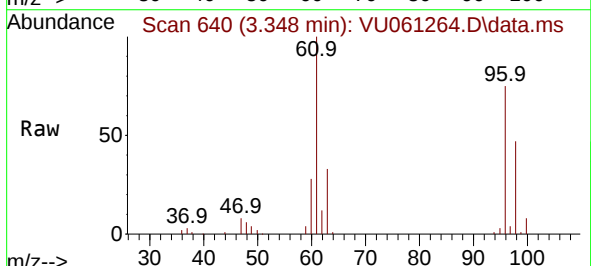
Instrument :
MSVOA_U
ClientSampleId :



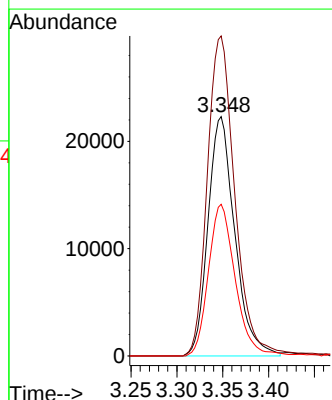
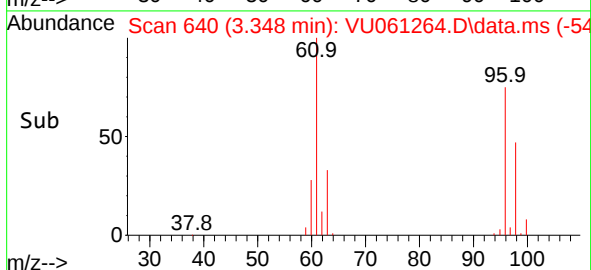
Tgt Ion: 84 Resp: 64608
Ion Ratio Lower Upper
84 100
86 67.3 43.5 80.7
49 112.8 75.7 140.7

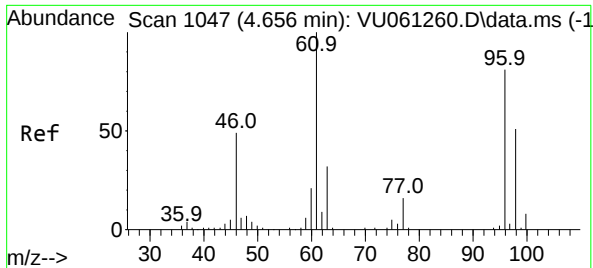


#18
trans-1,2-Dichloroethene
Concen: 3.680 ug/L
RT: 3.348 min Scan# 640
Delta R.T. 0.004 min
Lab File: VU061264.D
Acq: 28 Oct 2024 13:12



Tgt Ion: 96 Resp: 45349
Ion Ratio Lower Upper
96 100
61 133.7 97.9 181.7
98 63.4 46.2 85.8





#22

cis-1,2-Dichloroethene

Concen: 5.075 ug/L

RT: 4.657 min Scan# 1047

Delta R.T. 0.000 min

Lab File: VU061264.D

Acq: 28 Oct 2024 13:12

Instrument :

MSVOA_U

ClientSampleId :

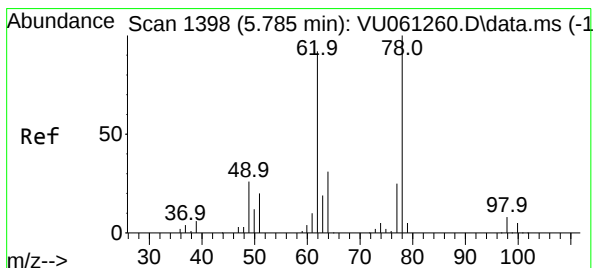
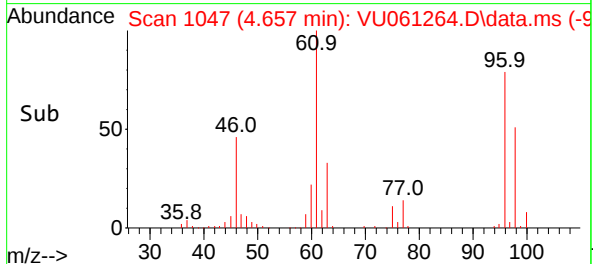
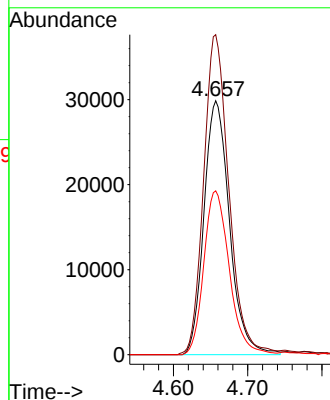
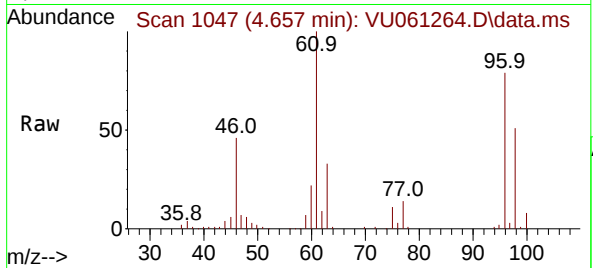
Tgt Ion: 96 Resp: 71444

Ion Ratio Lower Upper

96 100

61 126.0 88.1 163.5

98 64.5 45.0 83.6



#27

1,2-Dichloroethane

Concen: 5.991 ug/L

RT: 5.785 min Scan# 1398

Delta R.T. 0.000 min

Lab File: VU061264.D

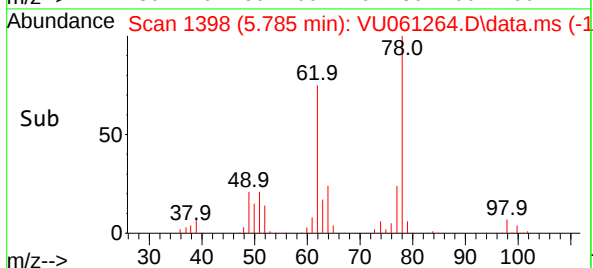
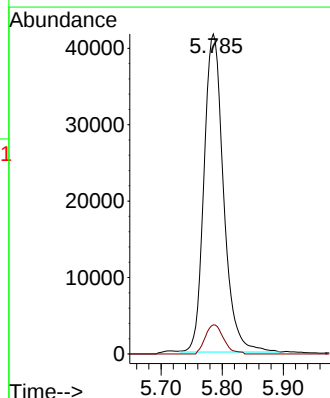
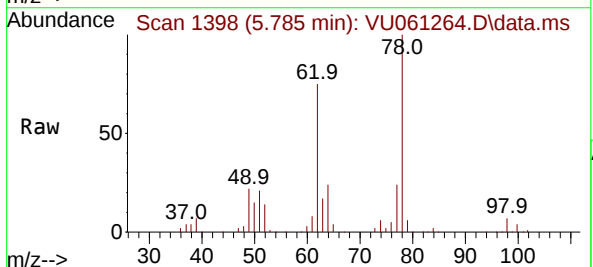
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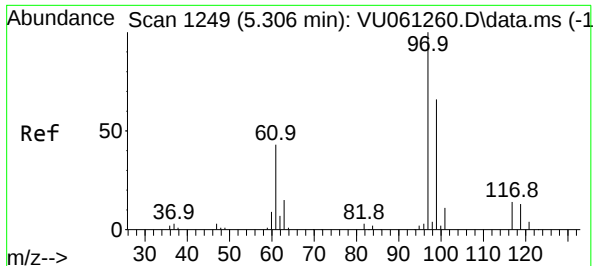
Tgt Ion: 62 Resp: 92532

Ion Ratio Lower Upper

62 100

98 9.1 7.4 11.0

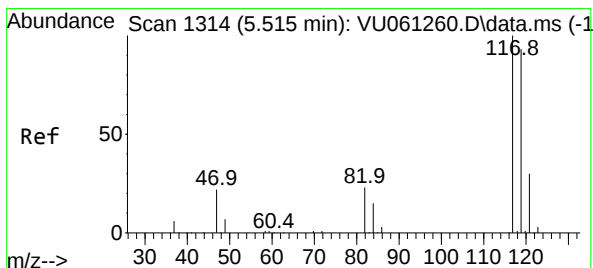
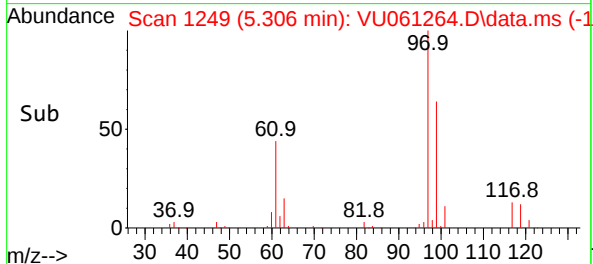
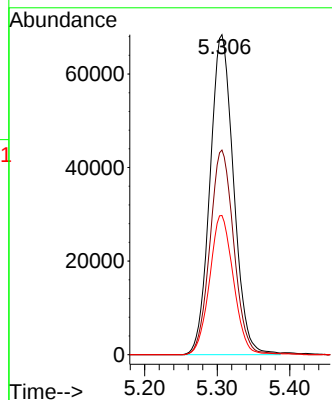
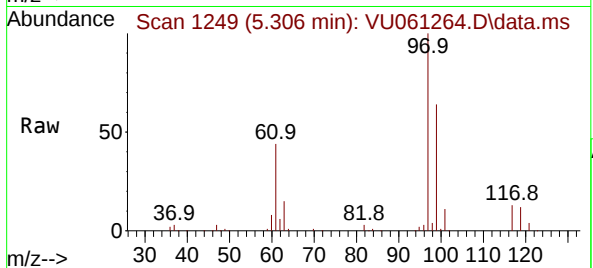




#29
1,1,1-Trichloroethane
Concen: 7.401 ug/L
RT: 5.306 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU061264.D
Acq: 28 Oct 2024 13:12

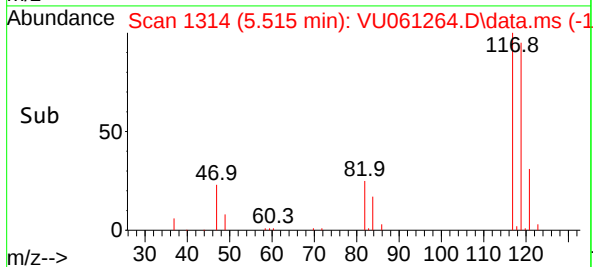
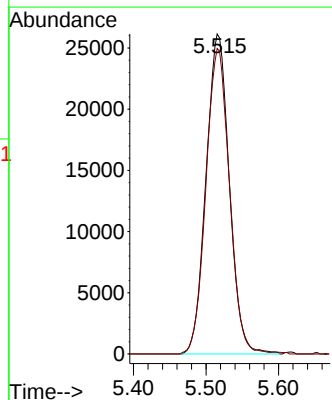
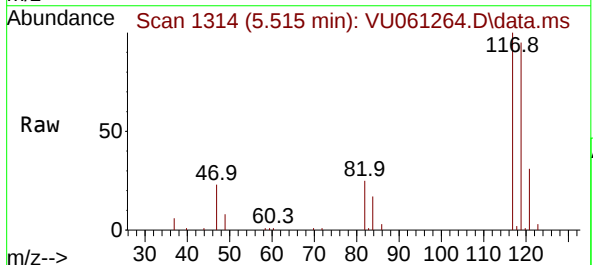
Instrument :
MSVOA_U
ClientSampleId :

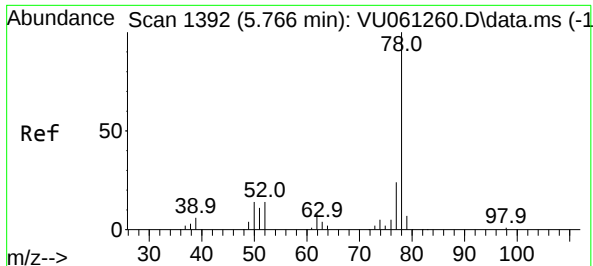
Tgt Ion: 97 Resp: 154864
Ion Ratio Lower Upper
97 100
99 64.6 50.8 76.2
61 44.0 36.1 54.1



#31
Carbon tetrachloride
Concen: 3.253 ug/L
RT: 5.515 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VU061264.D
Acq: 28 Oct 2024 13:12

Tgt Ion:117 Resp: 58247
Ion Ratio Lower Upper
117 100
119 96.8 75.5 113.3





#33

Benzene

Concen: 6.730 ug/L

RT: 5.763 min Scan# 1391

Delta R.T. -0.003 min

Lab File: VU061264.D

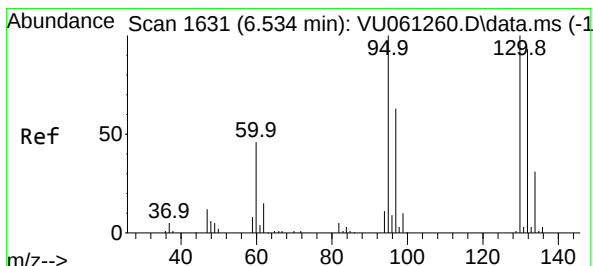
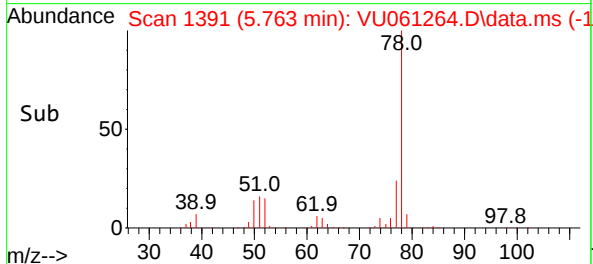
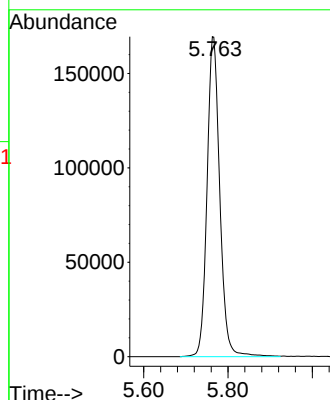
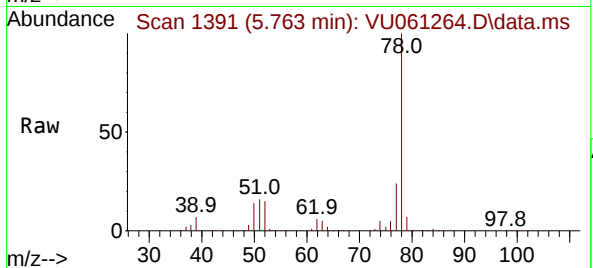
Acq: 28 Oct 2024 13:12

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 355654



#34

Trichloroethene

Concen: 1.750 ug/L

RT: 6.535 min Scan# 1631

Delta R.T. 0.000 min

Lab File: VU061264.D

Acq: 28 Oct 2024 13:12

Tgt Ion: 95 Resp: 25160

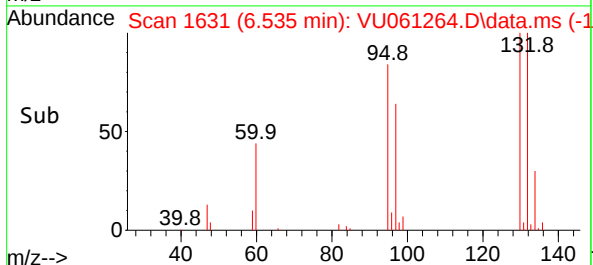
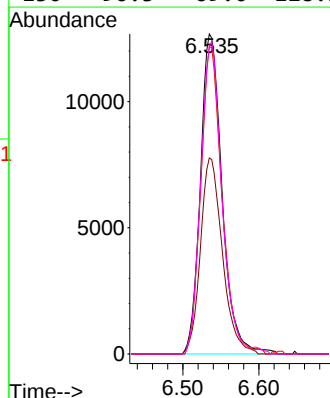
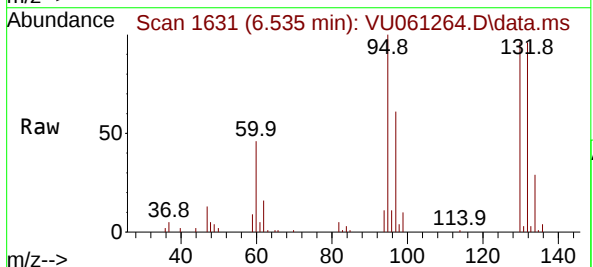
Ion Ratio Lower Upper

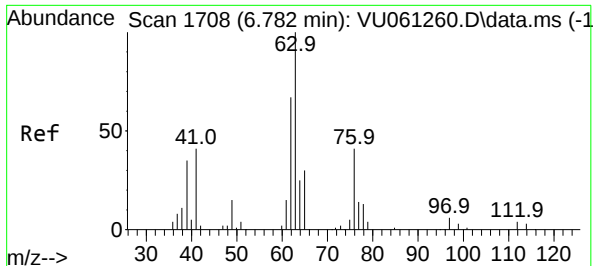
95 100

97 61.3 46.1 85.7

132 96.0 66.1 122.7

130 96.3 69.0 128.2





#37

1,2-Dichloropropane

Concen: 7.694 ug/L

RT: 6.779 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU061264.D

Acq: 28 Oct 2024 13:12

Instrument :

MSVOA_U

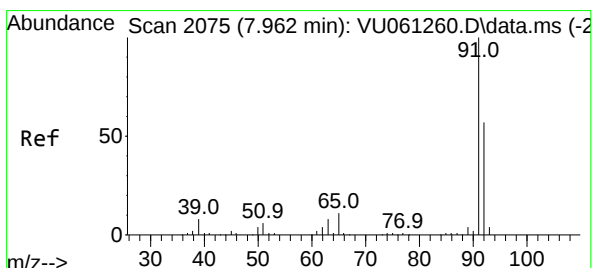
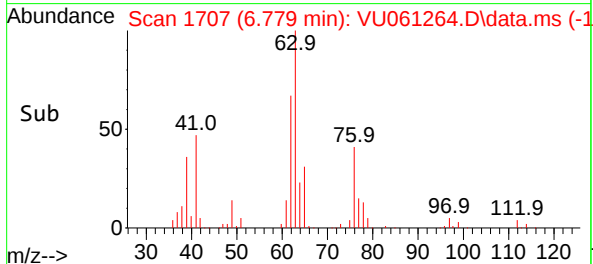
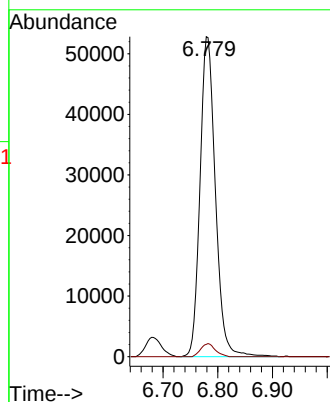
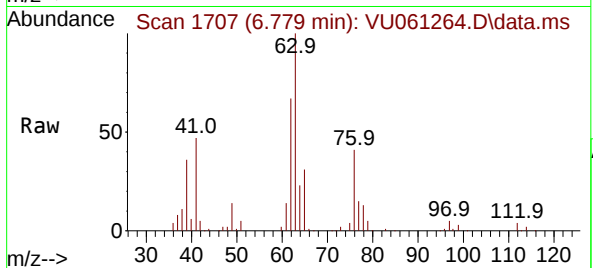
ClientSampleId :

Tgt Ion: 63 Resp: 103059

Ion Ratio Lower Upper

63 100

112 3.9 3.0 4.4



#42

Toluene

Concen: 5.021 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. 0.000 min

Lab File: VU061264.D

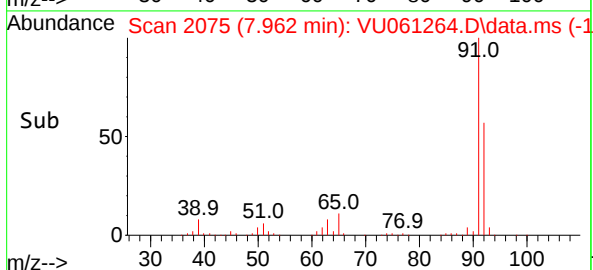
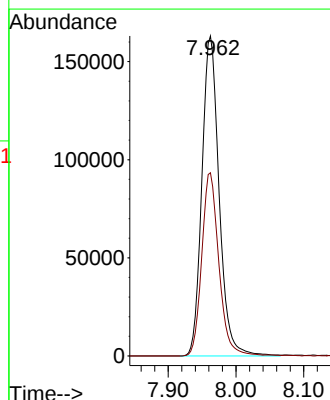
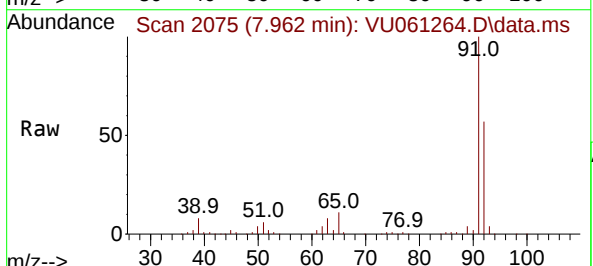
Acq: 28 Oct 2024 13:12

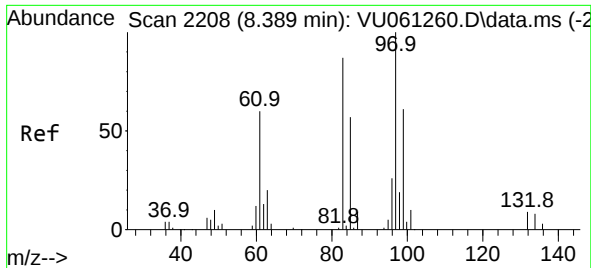
Tgt Ion: 91 Resp: 288103

Ion Ratio Lower Upper

91 100

92 57.2 40.3 74.8

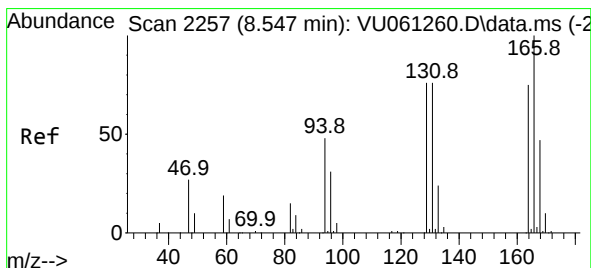
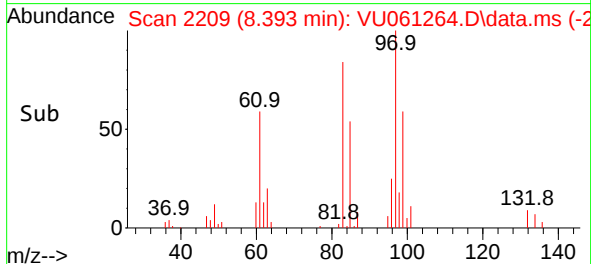
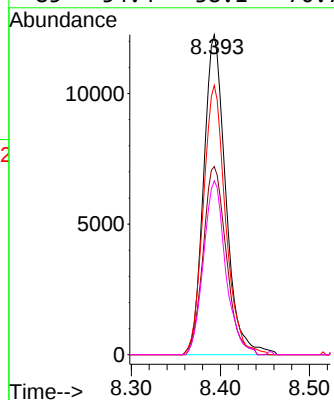
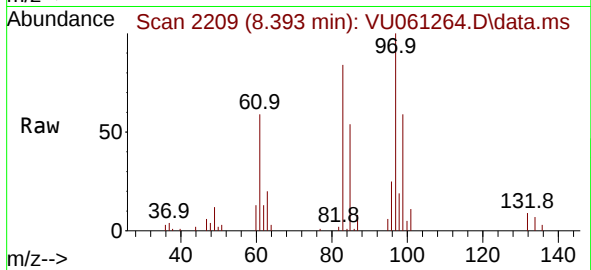




#45
1,1,2-Trichloroethane
Concen: 2.191 ug/L
RT: 8.393 min Scan# 21119
Delta R.T. 0.004 min
Lab File: VU061264.D
Acq: 28 Oct 2024 13:12

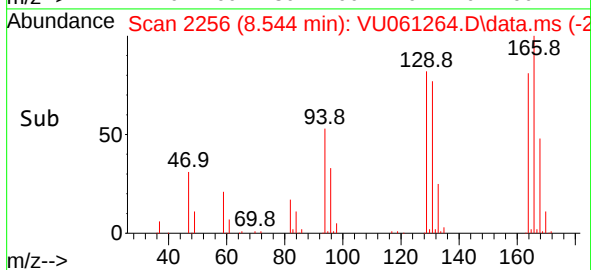
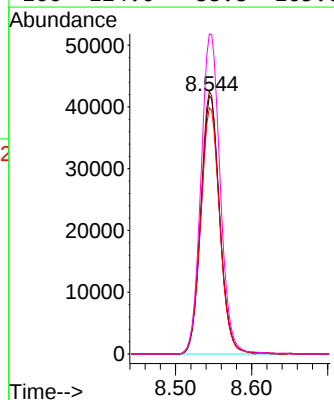
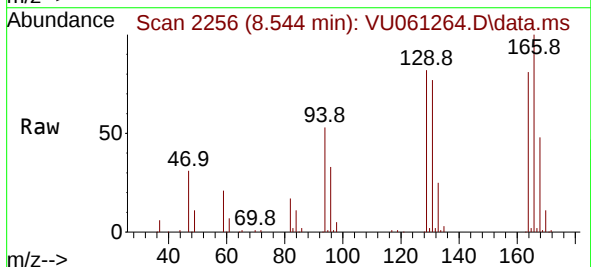
Instrument :
MSVOA_U
ClientSampleId :

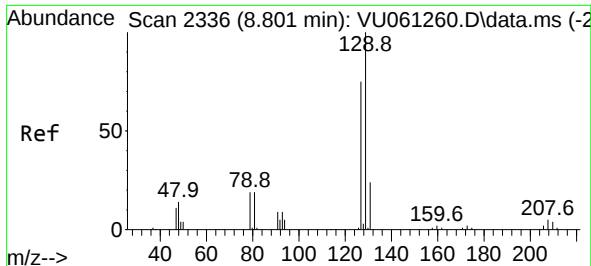
Tgt Ion:	97	Resp:	21119
Ion	Ratio	Lower	Upper
97	100		
99	58.8	44.1	81.9
83	84.2	61.2	113.6
85	54.4	38.1	70.7



#47
Tetrachloroethene
Concen: 7.142 ug/L
RT: 8.544 min Scan# 2256
Delta R.T. -0.003 min
Lab File: VU061264.D
Acq: 28 Oct 2024 13:12

Tgt Ion:	164	Resp:	71699
Ion	Ratio	Lower	Upper
164	100		
129	101.8	69.9	129.7
131	95.3	68.3	126.8
166	124.0	88.8	165.0





#49

Dibromochloromethane

Concen: 6.662 ug/L

RT: 8.544 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU061264.D

Acq: 28 Oct 2024 13:12

Instrument :

MSVOA_U

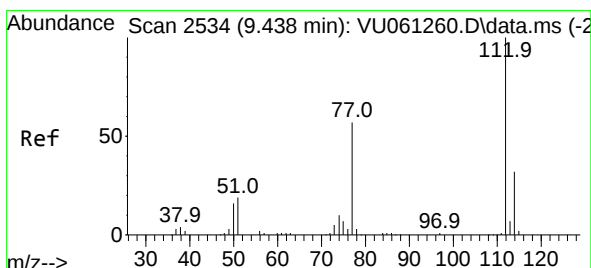
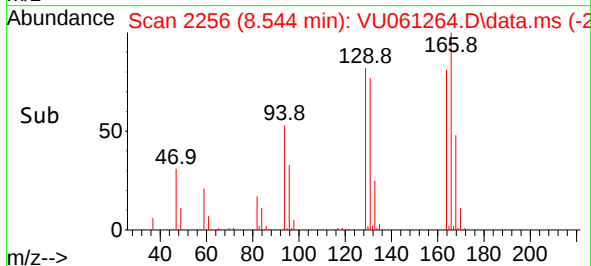
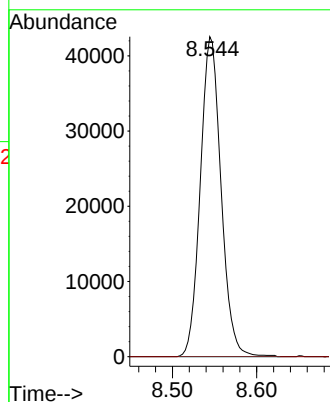
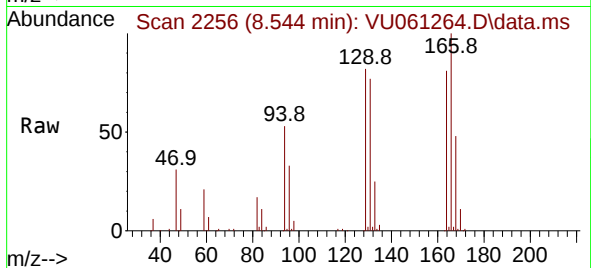
ClientSampleId :

Tgt Ion:129 Resp: 72836

Ion Ratio Lower Upper

129 100

127 0.0 51.8 96.2#



#51

Chlorobenzene

Concen: 5.602 ug/L

RT: 9.438 min Scan# 2534

Delta R.T. 0.000 min

Lab File: VU061264.D

Acq: 28 Oct 2024 13:12

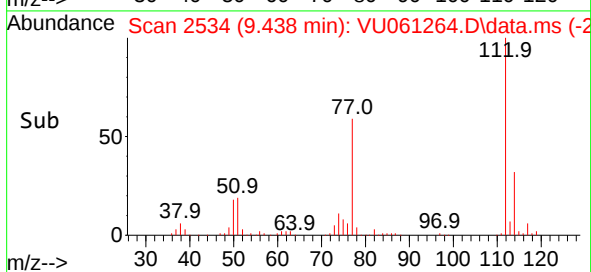
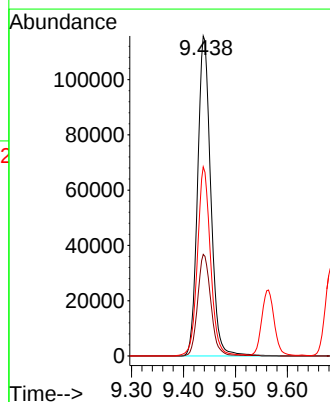
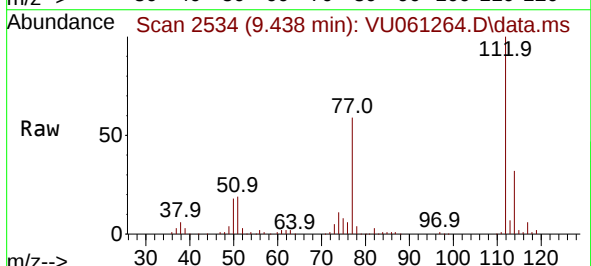
Tgt Ion:112 Resp: 203182

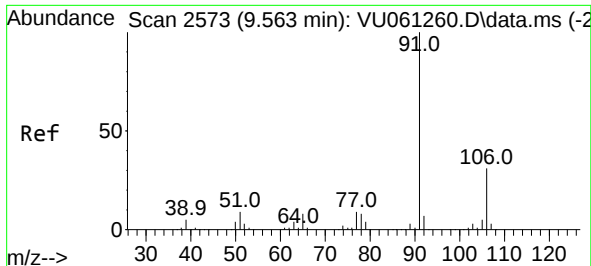
Ion Ratio Lower Upper

112 100

114 31.8 22.9 42.5

77 59.1 47.1 70.7

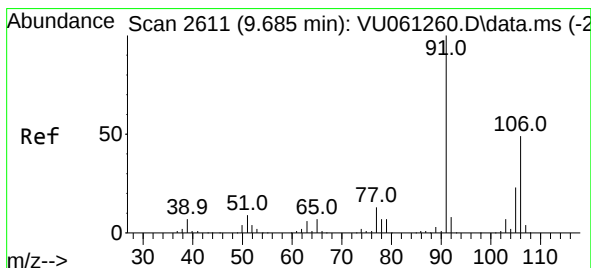
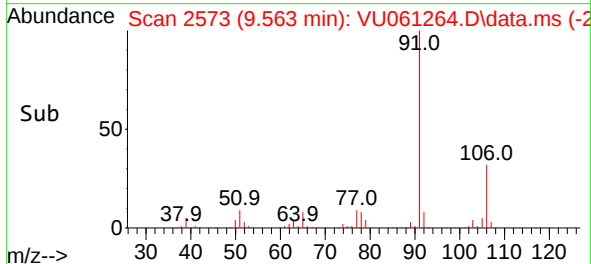
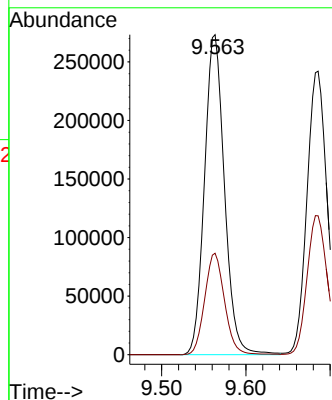
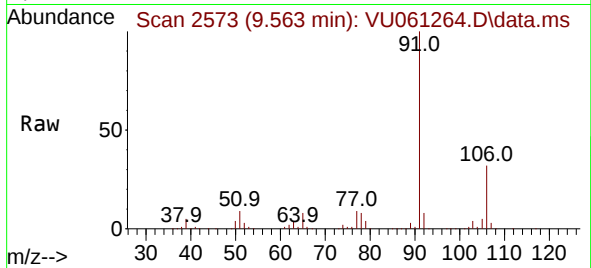




#52
Ethylbenzene
Concen: 7.155 ug/L
RT: 9.563 min Scan# 2573
Delta R.T. 0.000 min
Lab File: VU061264.D
Acq: 28 Oct 2024 13:12

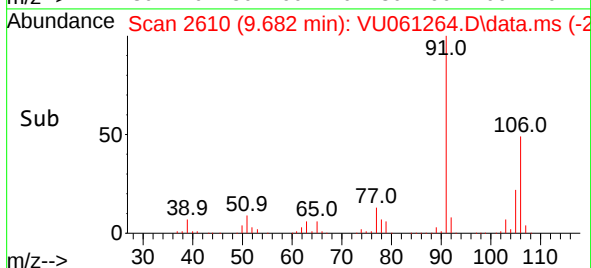
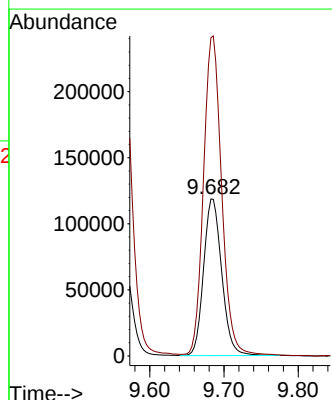
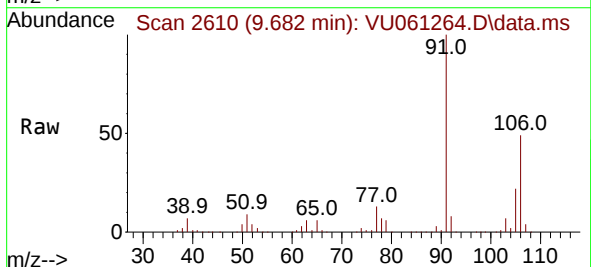
Instrument :
MSVOA_U
ClientSampleId :

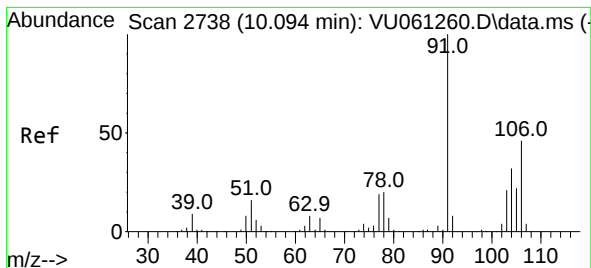
Tgt Ion: 91 Resp: 451632
Ion Ratio Lower Upper
91 100
106 31.7 22.0 41.0



#53
m,p-Xylene
Concen: 8.355 ug/L
RT: 9.682 min Scan# 2610
Delta R.T. -0.003 min
Lab File: VU061264.D
Acq: 28 Oct 2024 13:12

Tgt Ion:106 Resp: 200912
Ion Ratio Lower Upper
106 100
91 202.7 145.7 270.7





#54

o-Xylene

Concen: 3.165 ug/L

RT: 10.094 min Scan# 2738

Delta R.T. 0.000 min

Lab File: VU061264.D

Acq: 28 Oct 2024 13:12

Instrument :

MSVOA_U

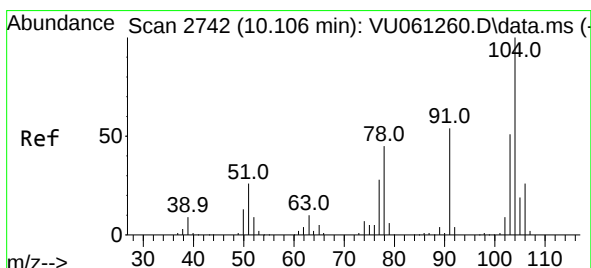
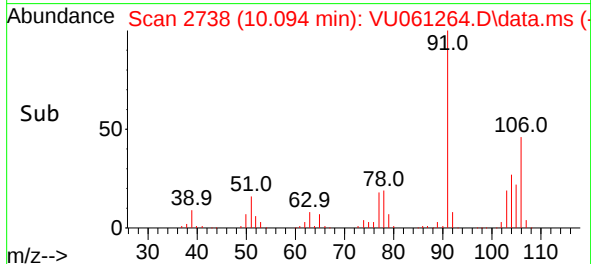
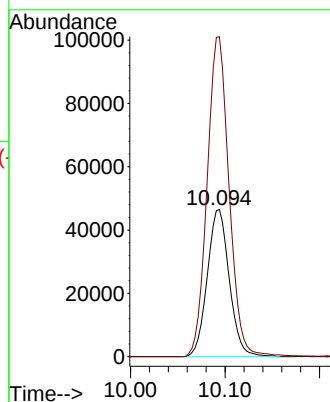
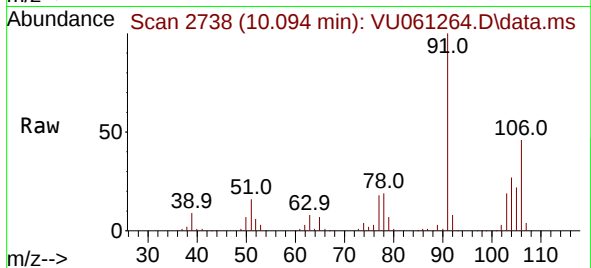
ClientSampleId :

Tgt Ion:106 Resp: 75110

Ion Ratio Lower Upper

106 100

91 217.4 148.8 276.4



#55

Styrene

Concen: 3.079 ug/L

RT: 10.107 min Scan# 2742

Delta R.T. 0.000 min

Lab File: VU061264.D

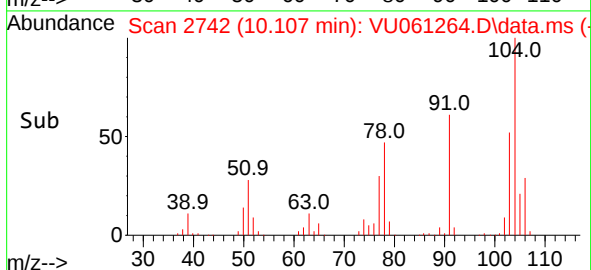
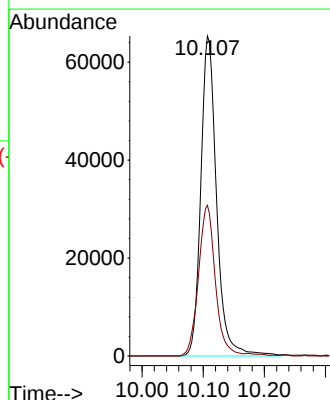
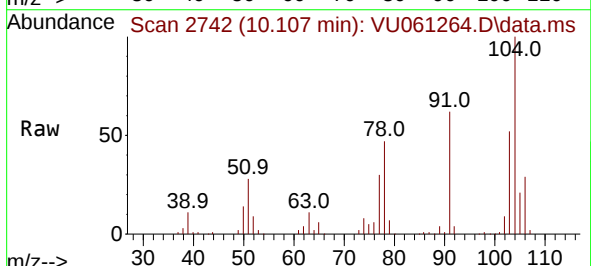
Acq: 28 Oct 2024 13:12

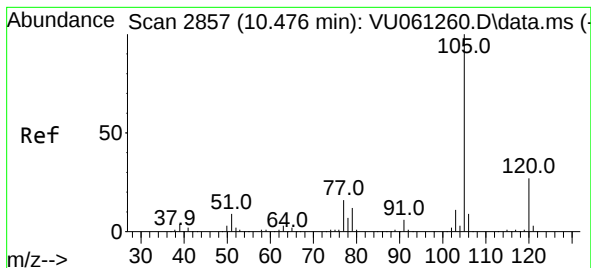
Tgt Ion:104 Resp: 117138

Ion Ratio Lower Upper

104 100

78 47.1 32.3 59.9





#60

Isopropylbenzene

Concen: 0.683 ug/L

RT: 10.094 min Scan# 21

Delta R.T. -0.382 min

Lab File: VU061264.D

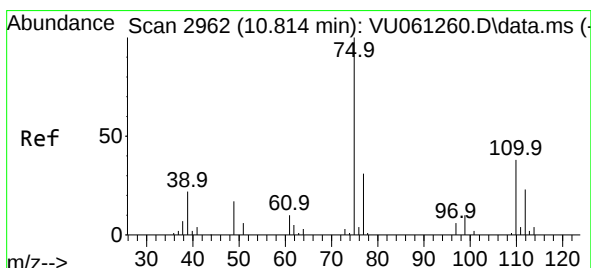
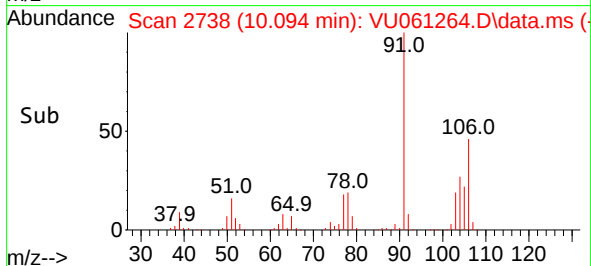
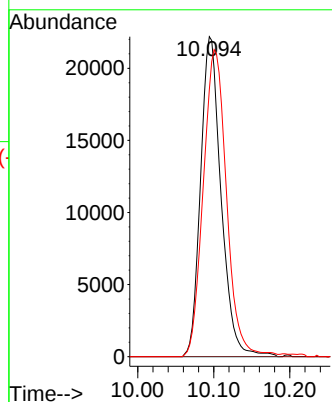
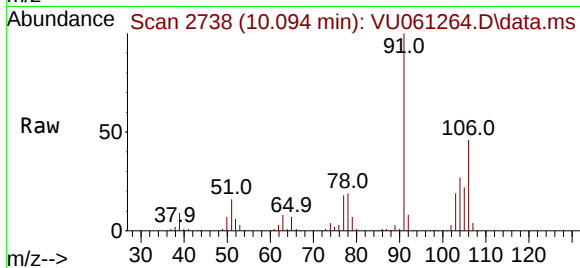
Acq: 28 Oct 2024 13:12

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	105	Resp:	41545
Ion Ratio	Lower	Upper	
105	100		
120	0.0	21.2	31.8#
77	109.0	12.6	19.0#



#61

1,2,3-Trichloropropane

Concen: 0.855 ug/L

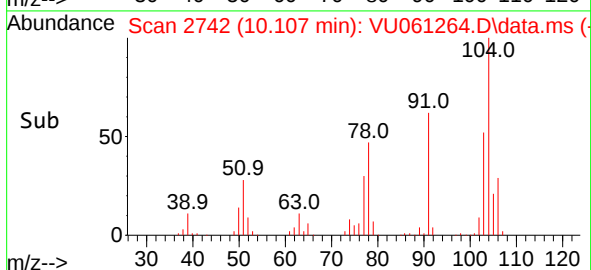
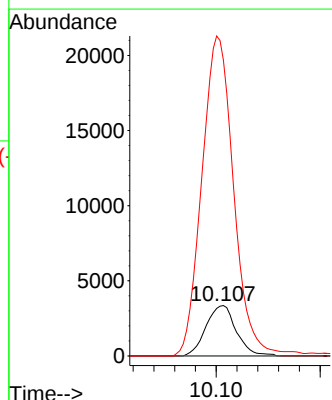
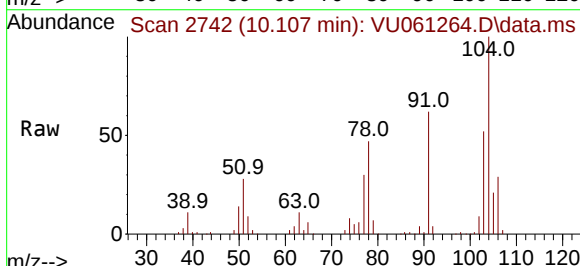
RT: 10.107 min Scan# 2742

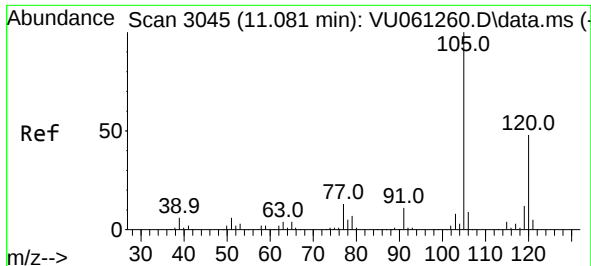
Delta R.T. -0.707 min

Lab File: VU061264.D

Acq: 28 Oct 2024 13:12

Tgt Ion:	75	Resp:	6778
Ion Ratio	Lower	Upper	
75	100		
110	0.0	28.8	43.2#
77	668.1	25.7	38.5#





#62

1,3,5-Trimethylbenzene

Concen: 0.839 ug/L

RT: 10.094 min Scan# 21

Delta R.T. -0.987 min

Lab File: VU061264.D

Acq: 28 Oct 2024 13:12

Instrument :

MSVOA_U

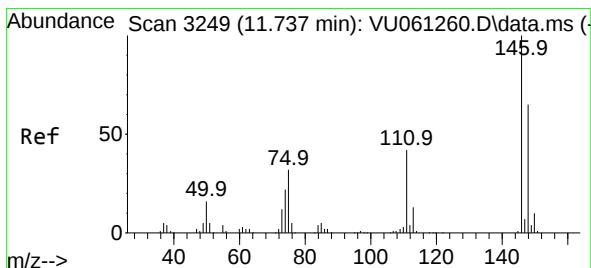
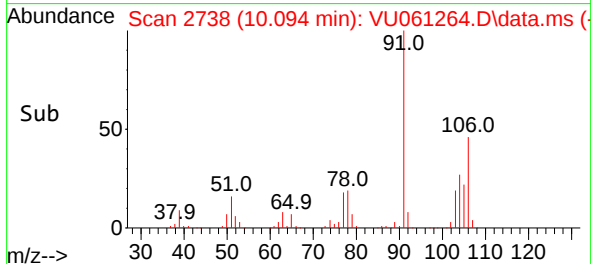
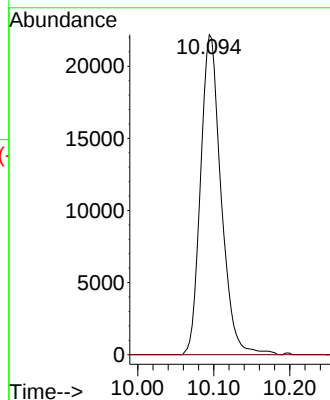
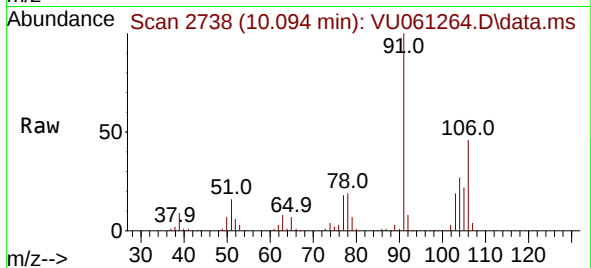
ClientSampleId :

Tgt Ion:105 Resp: 41545

Ion Ratio Lower Upper

105 100

120 0.0 38.7 58.1#



#64

1,3-Dichlorobenzene

Concen: 4.737 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. 0.094 min

Lab File: VU061264.D

Acq: 28 Oct 2024 13:12

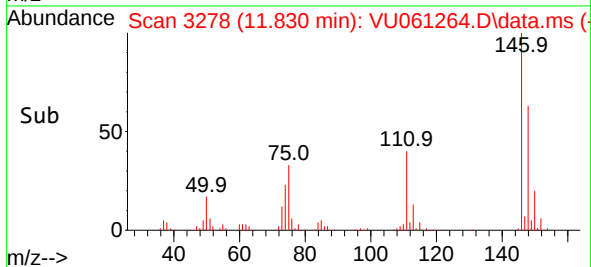
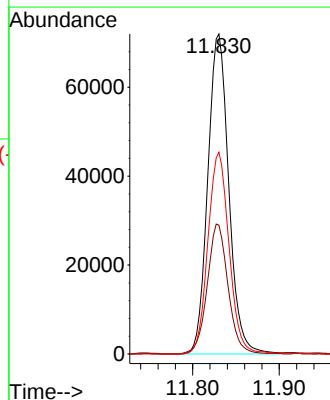
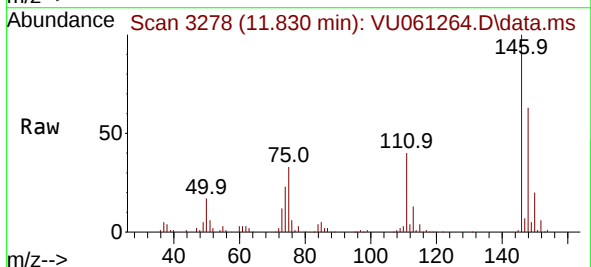
Tgt Ion:146 Resp: 121206

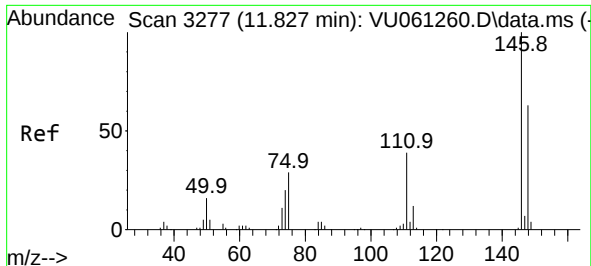
Ion Ratio Lower Upper

146 100

111 40.2 30.0 55.8

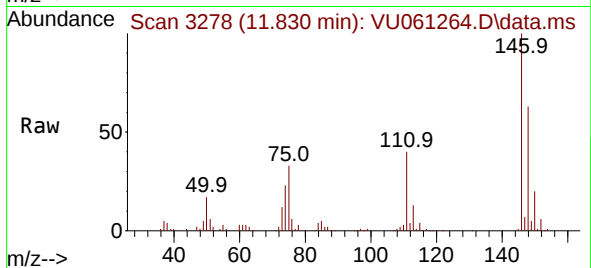
148 63.1 45.1 83.7



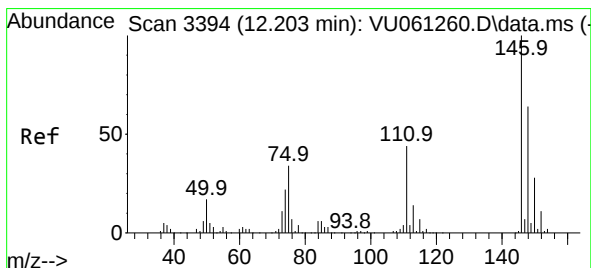
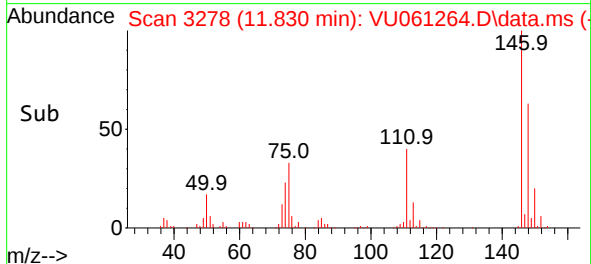
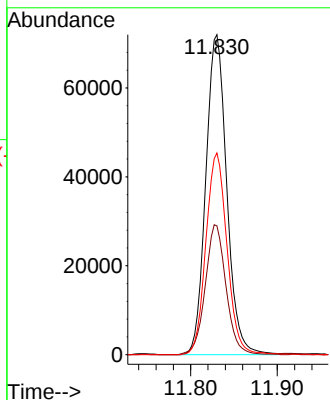


#65
1,4-Dichlorobenzene
Concen: 4.646 ug/L
RT: 11.830 min Scan# 31
Delta R.T. 0.004 min
Lab File: VU061264.D
Acq: 28 Oct 2024 13:12

Instrument :
MSVOA_U
ClientSampleId :

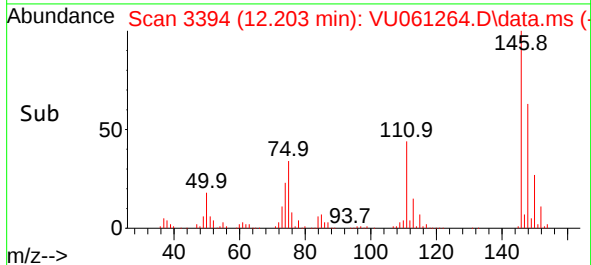
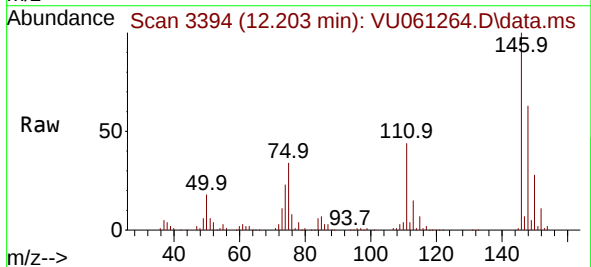
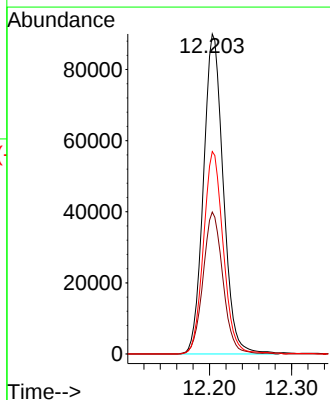


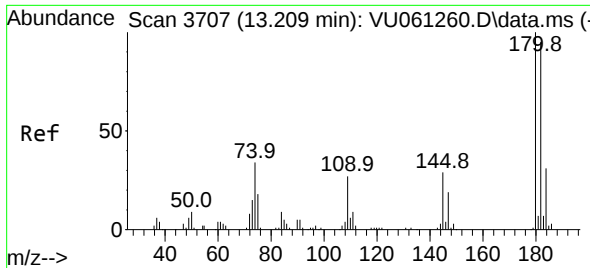
Tgt Ion:146 Resp: 121206
Ion Ratio Lower Upper
146 100
111 40.2 28.2 52.4
148 63.1 43.3 80.3



#67
1,2-Dichlorobenzene
Concen: 6.296 ug/L
RT: 12.203 min Scan# 3394
Delta R.T. 0.000 min
Lab File: VU061264.D
Acq: 28 Oct 2024 13:12

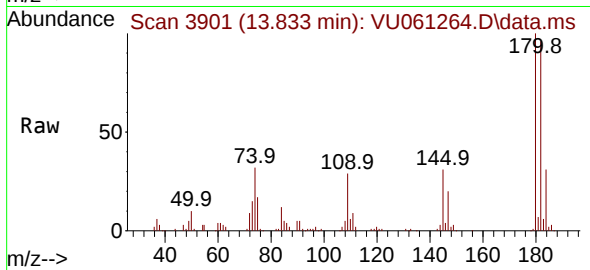
Tgt Ion:146 Resp: 151635
Ion Ratio Lower Upper
146 100
111 44.4 35.2 52.8
148 63.3 51.3 76.9



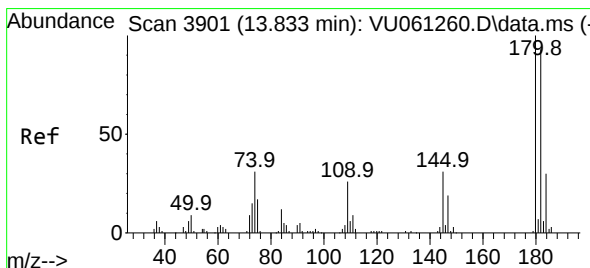
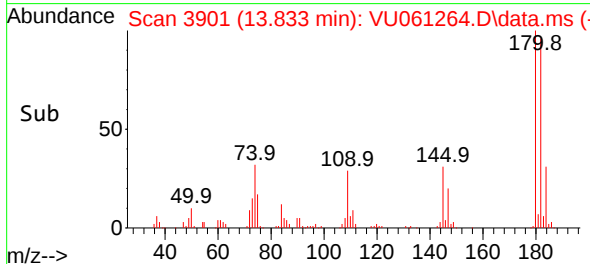
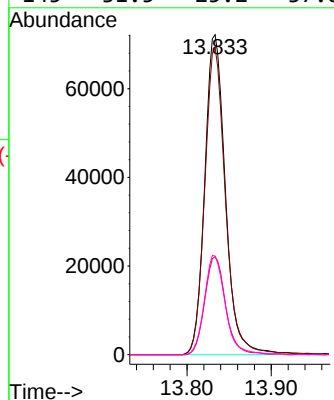


#69
 1,3,5-Trichlorobenzene
 Concen: 7.012 ug/L
 RT: 13.833 min Scan# 3901
 Delta R.T. 0.624 min
 Lab File: VU061264.D
 Acq: 28 Oct 2024 13:12

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:180 Resp: 122993
 Ion Ratio Lower Upper
 180 100
 182 96.4 77.4 116.2
 184 31.0 24.4 36.6
 145 31.5 25.2 37.8



#70
 1,2,4-trichlorobenzene
 Concen: 8.689 ug/L
 RT: 13.833 min Scan# 3901
 Delta R.T. 0.000 min
 Lab File: VU061264.D
 Acq: 28 Oct 2024 13:12

Tgt Ion:180 Resp: 122993
 Ion Ratio Lower Upper
 180 100
 182 96.4 77.2 115.8
 145 31.5 25.6 38.4

