

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071825\
 Data File : VU063539.D
 Acq On : 18 Jul 2025 16:24
 Operator : MD/SY
 Sample : Q2552-08DL 5X
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WS0725-PT-UNRVOA-WSDL

Quant Time: Jul 18 23:51:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Thu Jul 17 03:49:40 2025
 Response via : Initial Calibration

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

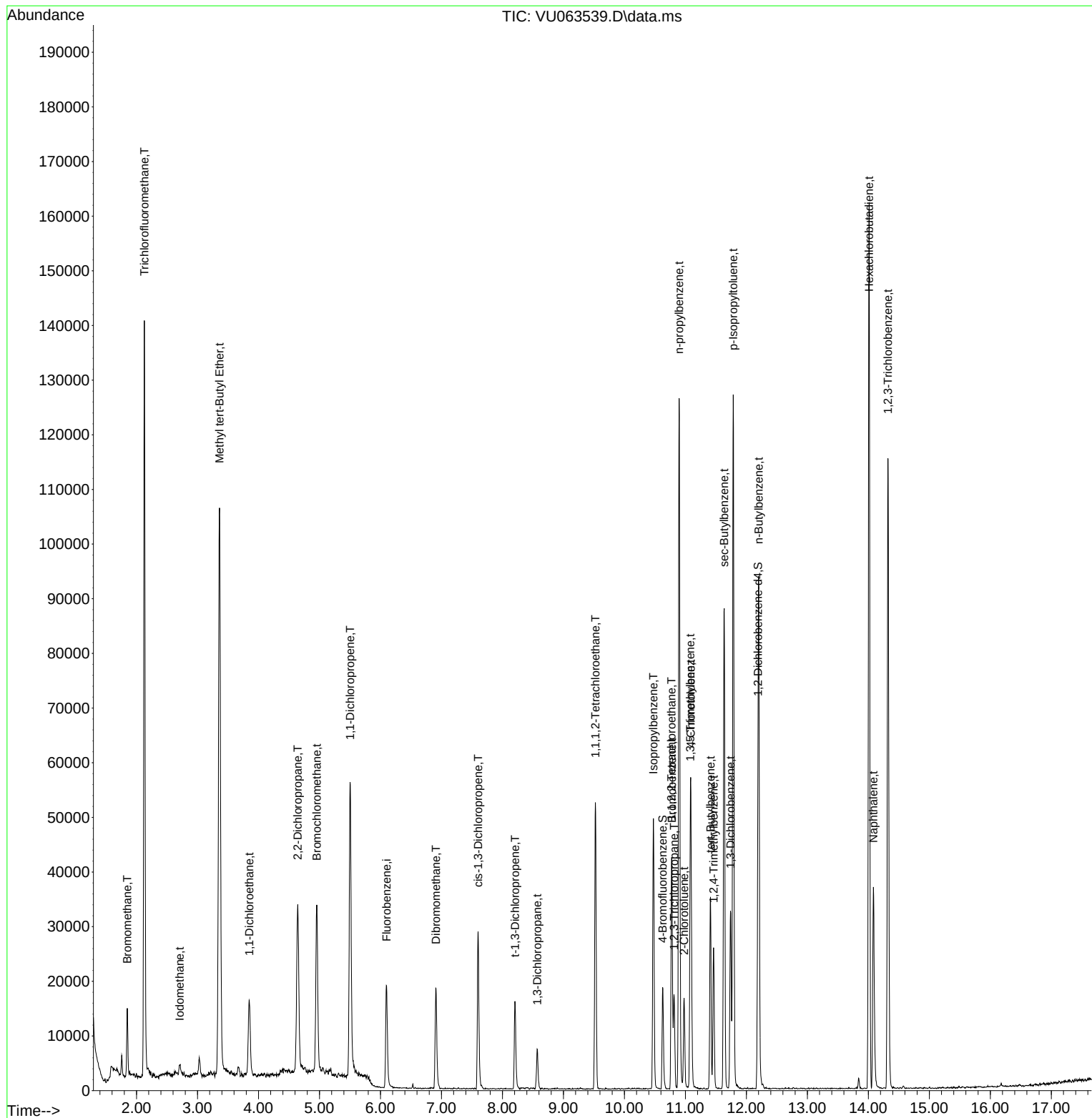
Internal Standards						
1) Fluorobenzene	6.100	96	18307	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.627	95	6937	1.001	ug/l	0.00
Spiked Amount 1.000			Recovery	=	100.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	6716	1.048	ug/l	0.00
Spiked Amount 1.000			Recovery	=	105.000%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.849	94	5509	1.143	ug/l	99
7) Trichlorofluoromethane	2.129	101	87541	9.541	ug/l	98
10) Iodomethane	2.708	142	2061	1.179	ug/l	92
17) 1,1-Dichloroethane	3.849	63	16340	1.633	ug/l	98
21) 2,2-Dichloropropane	4.643	77	21580	2.533	ug/l	94
25) Methyl tert-Butyl Ether	3.361	73	117828	9.496	ug/l	99
26) Bromochloromethane	4.955	128	9035	3.694	ug/l	94
29) 1,1-Dichloropropene	5.505	75	30453	3.794	ug/l	97
43) Dibromomethane	6.910	93	8049	3.078	ug/l	93
50) t-1,3-Dichloropropene	8.206	75	9438	2.040	ug/l	96
51) cis-1,3-Dichloropropene	7.602	75	16523	2.661	ug/l	94
53) 1,3-Dichloropropane	8.573	76	4537	0.747	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.524	131	12715	2.924	ug/l	97
69) Isopropylbenzene	10.476	105	32470	1.545	ug/l	97
70) 1,1,2,2-Tetrachloroethane	10.772	83	12200	2.848	ug/l	96
71) 1,2,3-Trichloropropane	10.814	75	7577	2.178	ug/l #	96
72) Bromobenzene	10.778	156	4727	0.872	ug/l	88
73) n-propylbenzene	10.897	120	22074	3.489	ug/l	92
74) 2-Chlorotoluene	10.981	126	3005	0.537	ug/l	84
75) 1,3,5-Trimethylbenzene	11.081	105	18365	0.915	ug/l	98
76) 4-Chlorotoluene	11.090	126	6710	1.182	ug/l	99
77) tert-Butylbenzene	11.412	119	16207	0.845	ug/l	89
78) 1,2,4-Trimethylbenzene	11.463	105	15217	0.764	ug/l	96
79) sec-Butylbenzene	11.634	105	61202	2.366	ug/l	96
81) p-Isopropyltoluene	11.785	119	69619	3.224	ug/l	98
82) 1,3-Dichlorobenzene	11.743	146	13904	1.281	ug/l	98
84) n-Butylbenzene	12.203	91	47169	2.355	ug/l	97
88) Hexachlorobutadiene	14.013	225	24756	6.876	ug/l	98
89) Naphthalene	14.084	128	33751	2.971	ug/l	98
90) 1,2,3-Trichlorobenzene	14.322	180	32717	5.585	ug/l	97

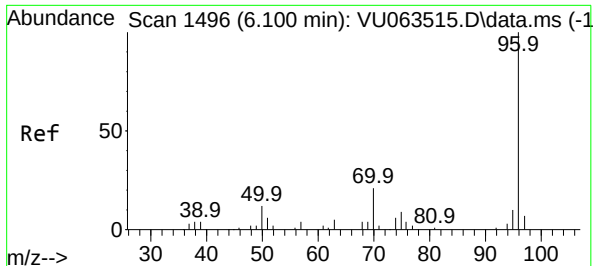
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071825\
Data File : VU063539.D
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Misc : 25mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
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ClientSampleId :
WS0725-PT-UNRVOA-WSDL

Quant Time: Jul 18 23:51:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration

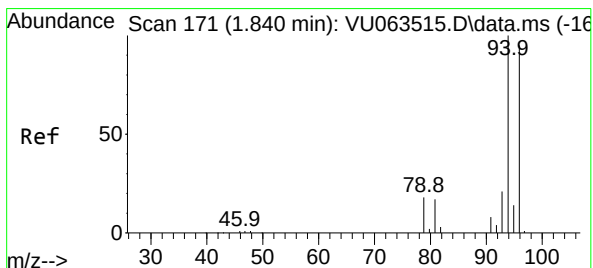
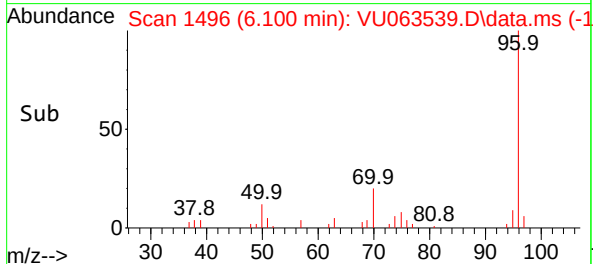
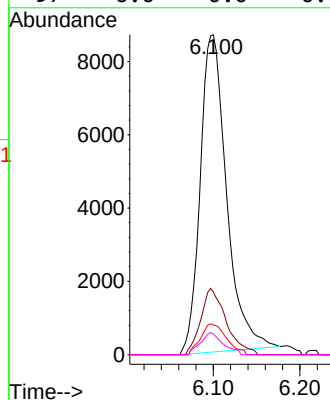
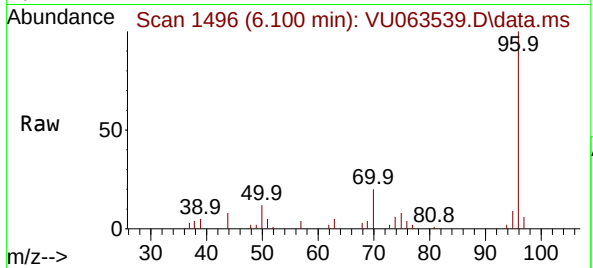




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.100 min Scan# 1496
Delta R.T. 0.000 min
Lab File: VU063539.D
Acq: 18 Jul 2025 16:24

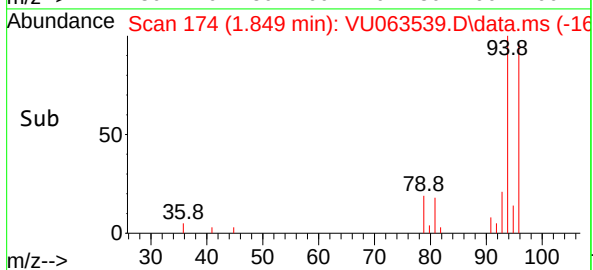
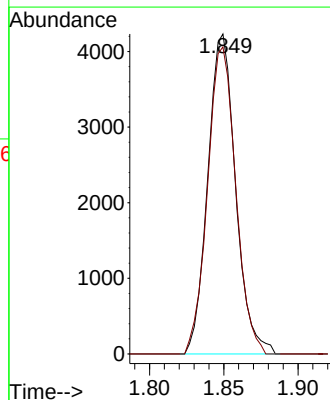
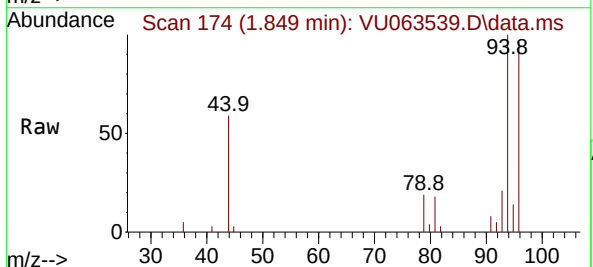
Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-UNRVOA-WSDL

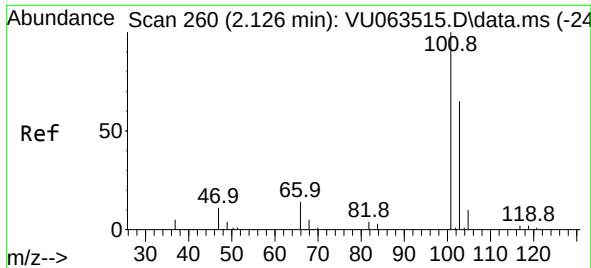
Tgt Ion:	96	Resp:	18307
Ion Ratio	Lower	Upper	
96	100		
70	20.1	15.0	22.4
95	9.5	7.4	11.0
97	6.0	0.0	0.0



#5
Bromomethane
Concen: 1.143 ug/l
RT: 1.849 min Scan# 174
Delta R.T. 0.010 min
Lab File: VU063539.D
Acq: 18 Jul 2025 16:24

Tgt Ion:	94	Resp:	5509
Ion Ratio	Lower	Upper	
94	100		
96	95.9	75.8	113.6

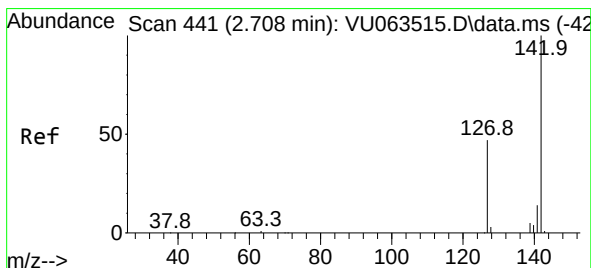
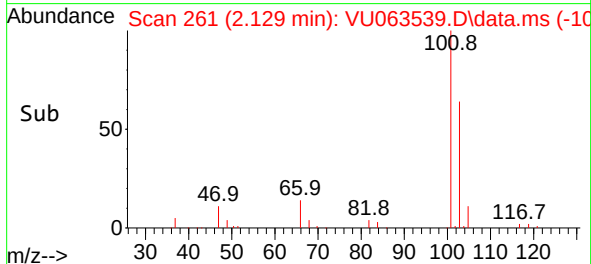
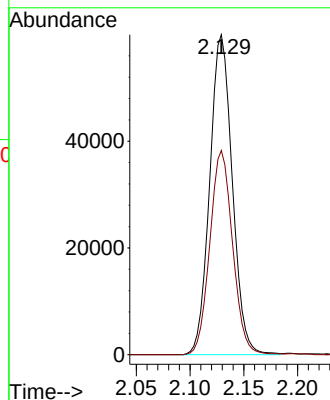
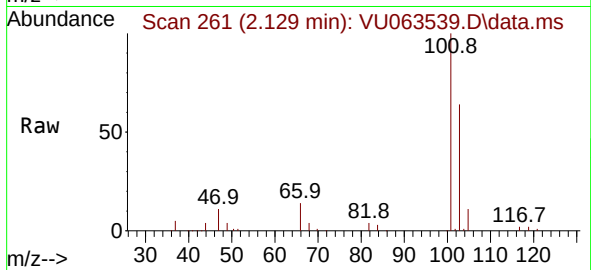




#7
 Trichlorofluoromethane
 Concen: 9.541 ug/l
 RT: 2.129 min Scan# 2
 Delta R.T. 0.003 min
 Lab File: VU063539.D
 Acq: 18 Jul 2025 16:24

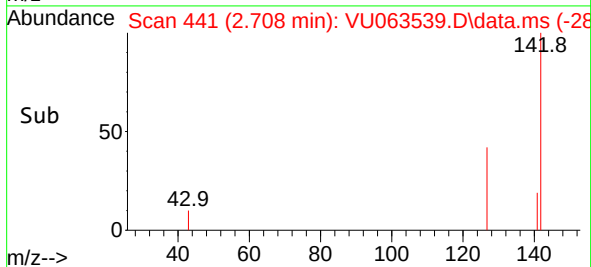
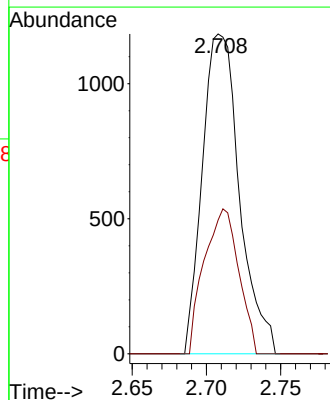
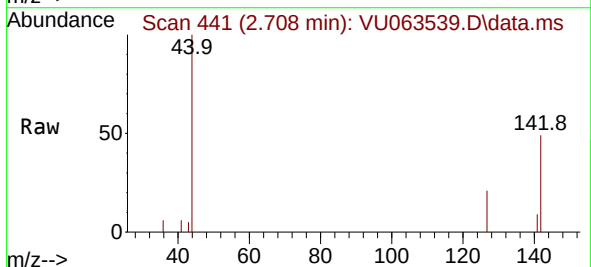
Instrument :
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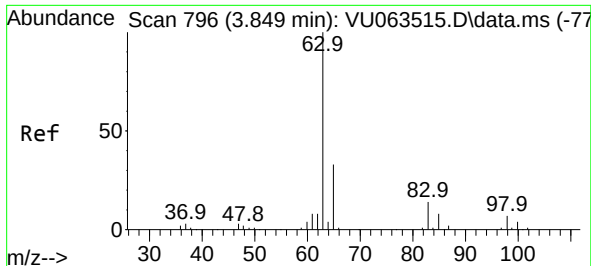
Tgt Ion:101 Resp: 87541
 Ion Ratio Lower Upper
 101 100
 103 63.8 52.2 78.4



#10
 Iodomethane
 Concen: 1.179 ug/l
 RT: 2.708 min Scan# 441
 Delta R.T. -0.000 min
 Lab File: VU063539.D
 Acq: 18 Jul 2025 16:24

Tgt Ion:142 Resp: 2061
 Ion Ratio Lower Upper
 142 100
 127 42.0 37.9 56.9

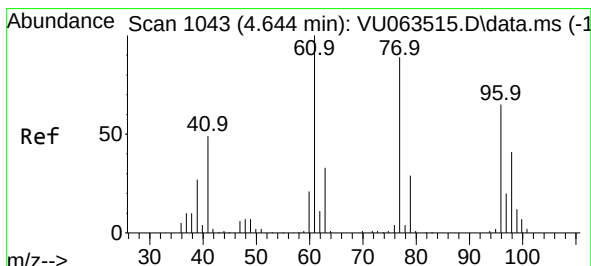
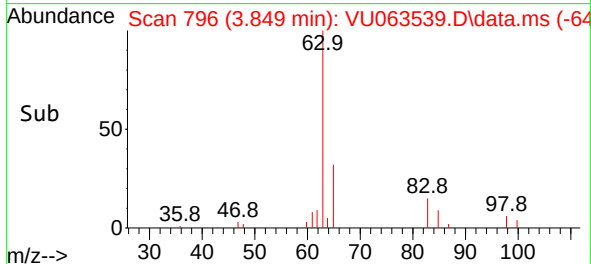
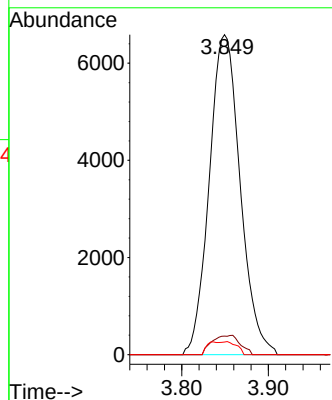
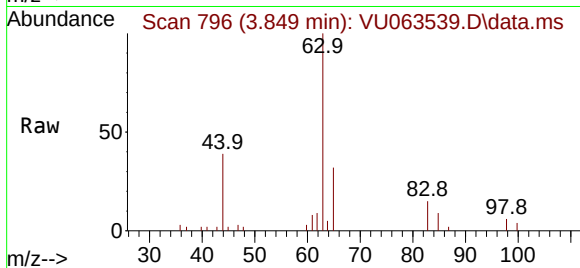




#17
 1,1-Dichloroethane
 Concen: 1.633 ug/l
 RT: 3.849 min Scan# 796
 Delta R.T. -0.000 min
 Lab File: VU063539.D
 Acq: 18 Jul 2025 16:24

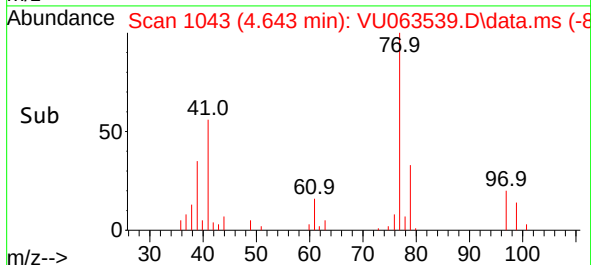
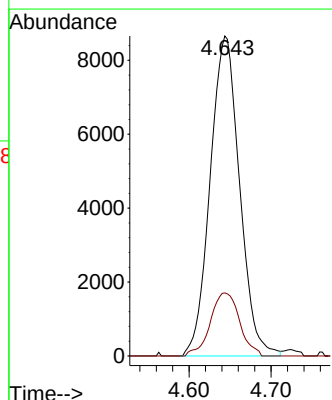
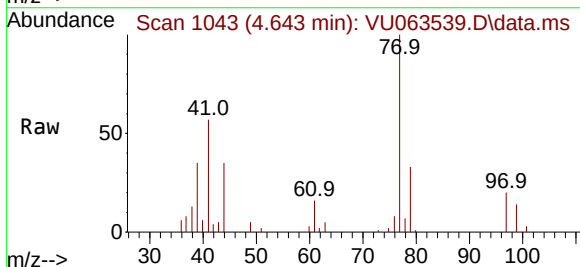
Instrument :
 MSVOA_U
 ClientSampleId :
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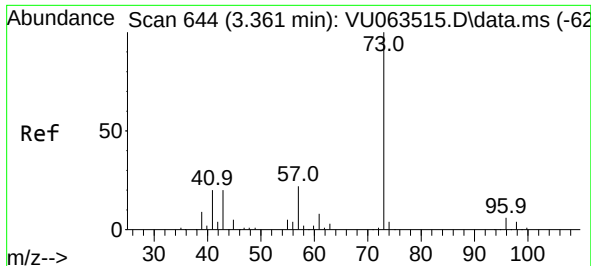
Tgt Ion: 63 Resp: 16340
 Ion Ratio Lower Upper
 63 100
 98 5.8 3.4 10.2
 100 3.9 2.1 6.2



#21
 2,2-Dichloropropane
 Concen: 2.533 ug/l
 RT: 4.643 min Scan# 1043
 Delta R.T. -0.000 min
 Lab File: VU063539.D
 Acq: 18 Jul 2025 16:24

Tgt Ion: 77 Resp: 21580
 Ion Ratio Lower Upper
 77 100
 97 19.6 17.8 26.8

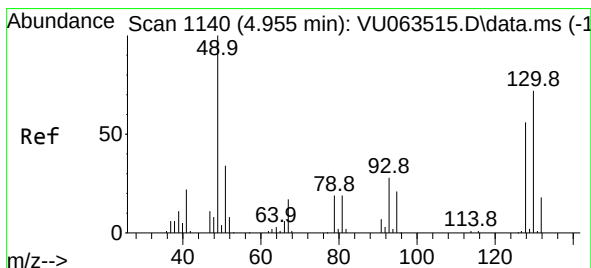
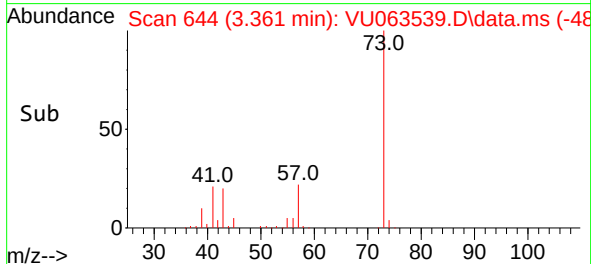
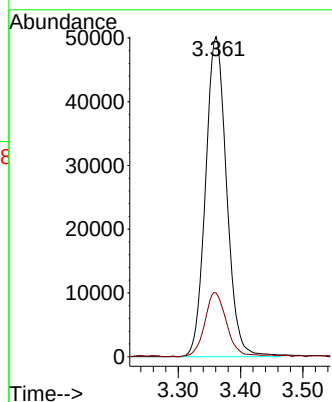
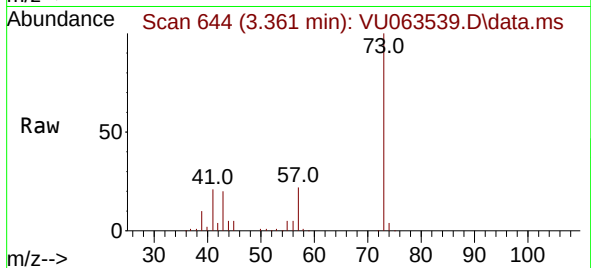




#25
Methyl tert-Butyl Ether
Concen: 9.496 ug/l
RT: 3.361 min Scan# 644
Delta R.T. -0.000 min
Lab File: VU063539.D
Acq: 18 Jul 2025 16:24

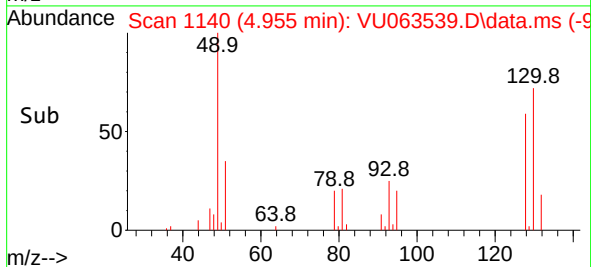
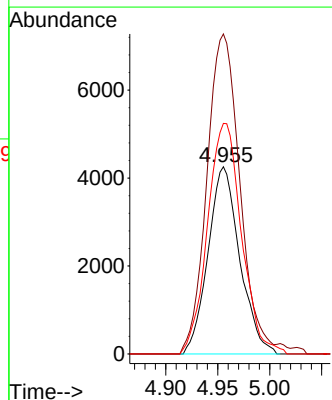
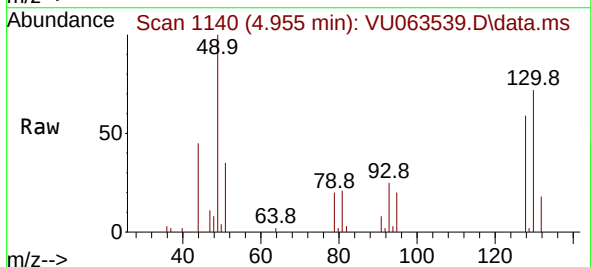
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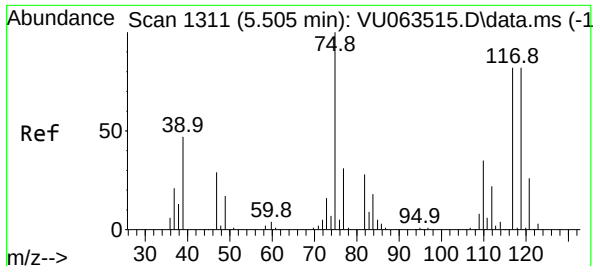
Tgt Ion: 73 Resp: 117828
Ion Ratio Lower Upper
73 100
43 20.9 16.2 24.2



#26
Bromochloromethane
Concen: 3.694 ug/l
RT: 4.955 min Scan# 1140
Delta R.T. -0.000 min
Lab File: VU063539.D
Acq: 18 Jul 2025 16:24

Tgt Ion: 128 Resp: 9035
Ion Ratio Lower Upper
128 100
49 179.2 0.0 340.8
130 132.3 100.5 150.7

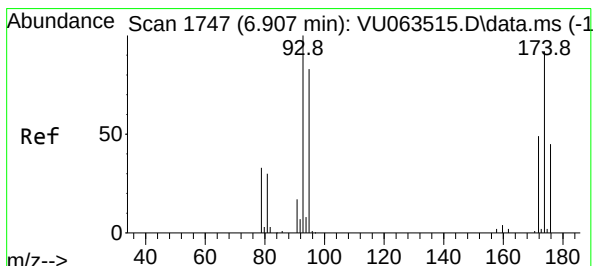
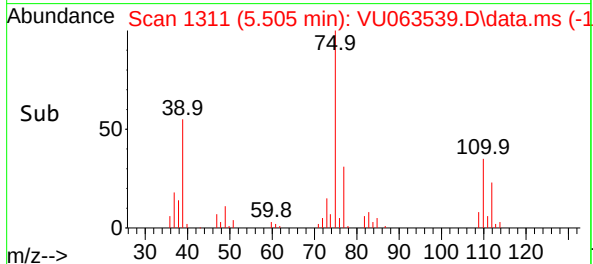
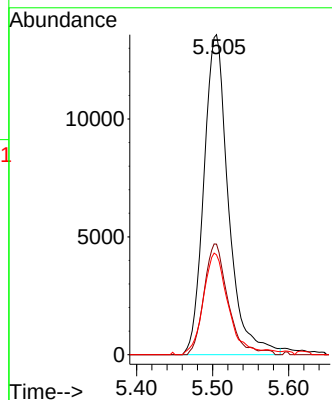
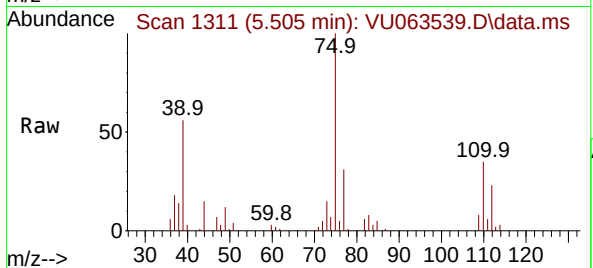




#29
1,1-Dichloropropene
Concen: 3.794 ug/l
RT: 5.505 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU063539.D
Acq: 18 Jul 2025 16:24

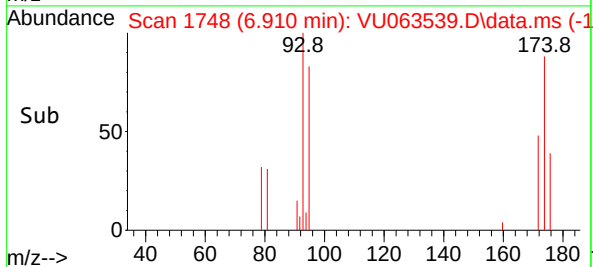
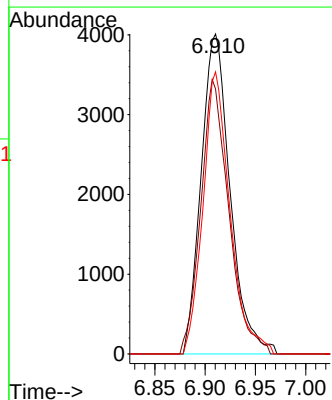
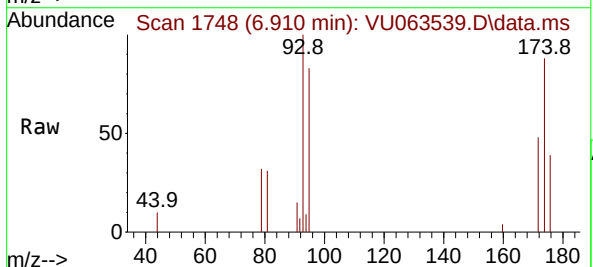
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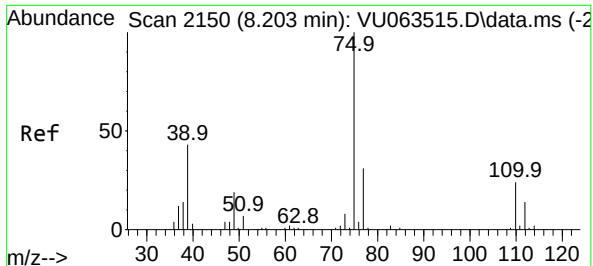
Tgt Ion: 75 Resp: 30453
Ion Ratio Lower Upper
75 100
110 33.3 17.8 53.4
77 32.1 24.6 37.0



#43
Dibromomethane
Concen: 3.078 ug/l
RT: 6.910 min Scan# 1748
Delta R.T. 0.003 min
Lab File: VU063539.D
Acq: 18 Jul 2025 16:24

Tgt Ion: 93 Resp: 8049
Ion Ratio Lower Upper
93 100
95 83.0 67.9 101.9
174 82.4 74.6 111.8





#50

t-1,3-Dichloropropene

Concen: 2.040 ug/l

RT: 8.206 min Scan# 2150

Delta R.T. 0.003 min

Lab File: VU063539.D

Acq: 18 Jul 2025 16:24

Instrument :

MSVOA_U

ClientSampleId :

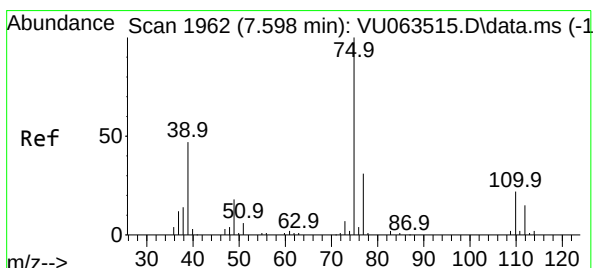
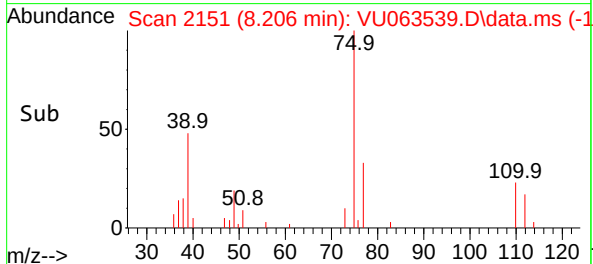
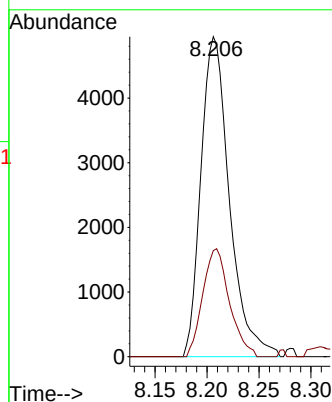
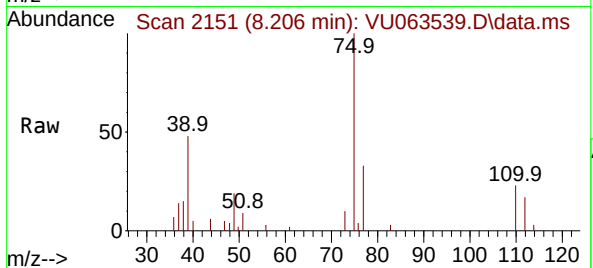
WS0725-PT-UNRVOA-WSDL

Tgt Ion: 75 Resp: 9438

Ion Ratio Lower Upper

75 100

77 33.1 24.9 37.3



#51

cis-1,3-Dichloropropene

Concen: 2.661 ug/l

RT: 7.602 min Scan# 1963

Delta R.T. 0.003 min

Lab File: VU063539.D

Acq: 18 Jul 2025 16:24

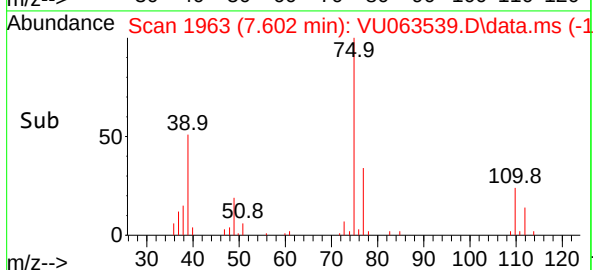
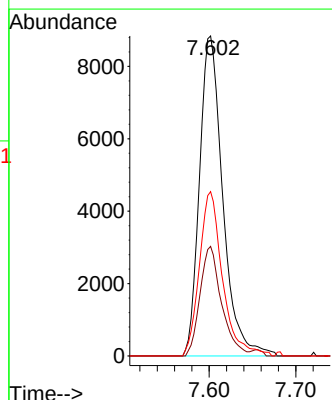
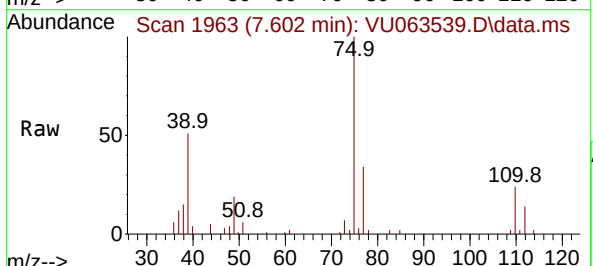
Tgt Ion: 75 Resp: 16523

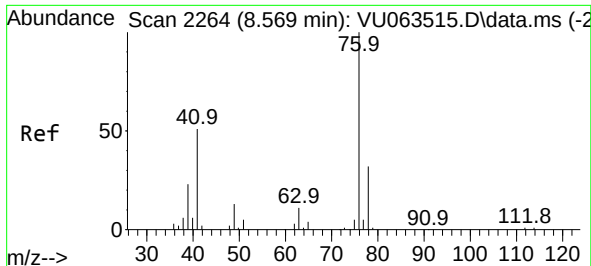
Ion Ratio Lower Upper

75 100

77 34.3 25.1 37.7

39 51.4 37.8 56.6





#53

1,3-Dichloropropane

Concen: 0.747 ug/l

RT: 8.573 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU063539.D

Acq: 18 Jul 2025 16:24

Instrument :

MSVOA_U

ClientSampleId :

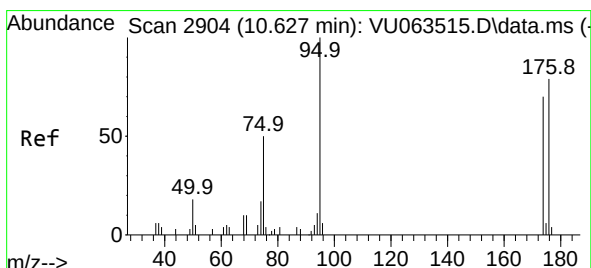
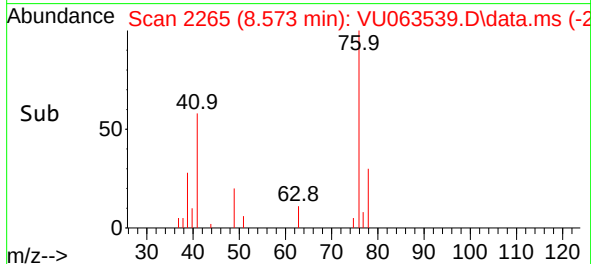
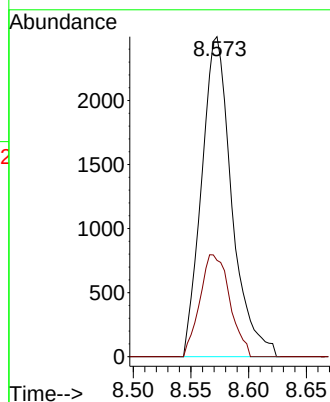
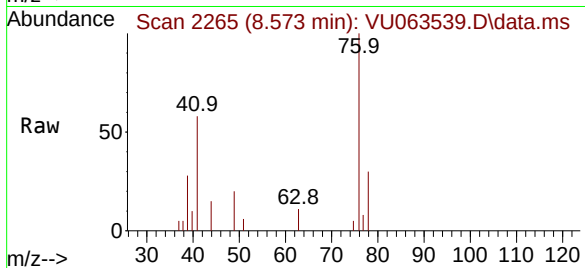
WS0725-PT-UNRVOA-WSDL

Tgt Ion: 76 Resp: 4537

Ion Ratio Lower Upper

76 100

78 31.6 26.0 39.0



#57

4-Bromofluorobenzene

Concen: 1.001 ug/l

RT: 10.627 min Scan# 2904

Delta R.T. -0.000 min

Lab File: VU063539.D

Acq: 18 Jul 2025 16:24

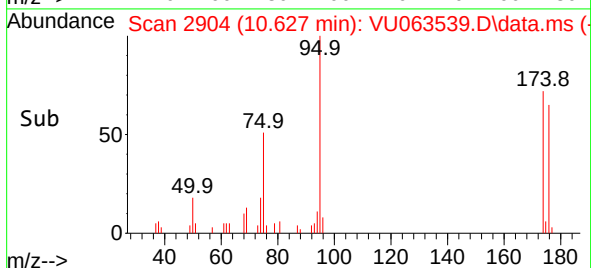
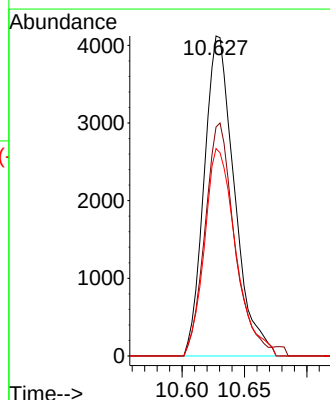
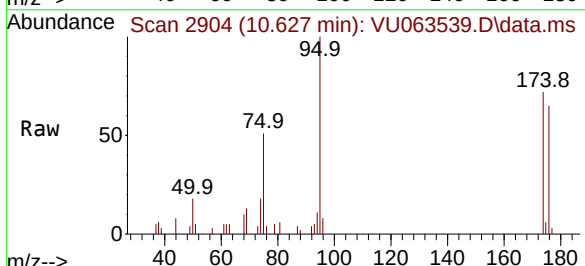
Tgt Ion: 95 Resp: 6937

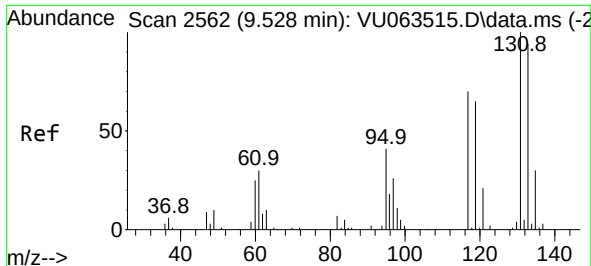
Ion Ratio Lower Upper

95 100

174 71.4 59.8 89.8

176 67.3 61.8 92.8

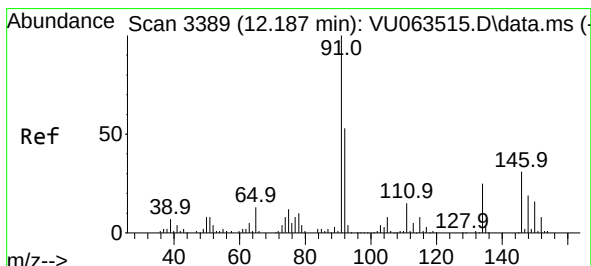
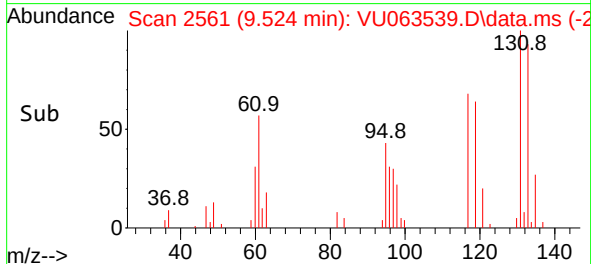
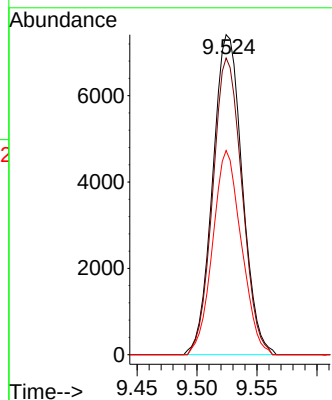
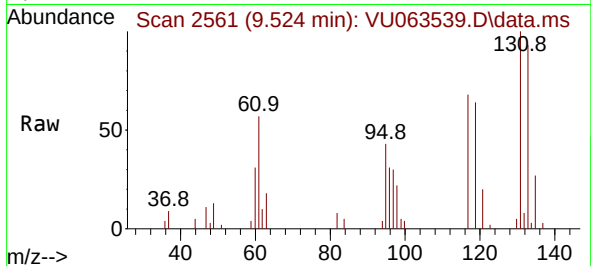




#60
 1,1,1,2-Tetrachloroethane
 Concen: 2.924 ug/l
 RT: 9.524 min Scan# 2561
 Delta R.T. -0.003 min
 Lab File: VU063539.D
 Acq: 18 Jul 2025 16:24

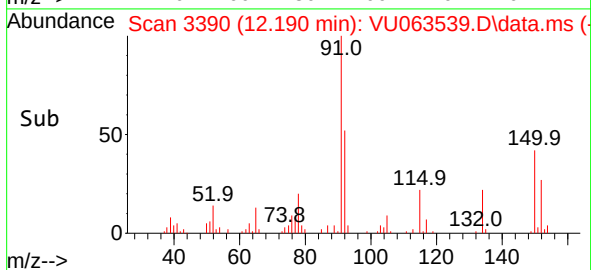
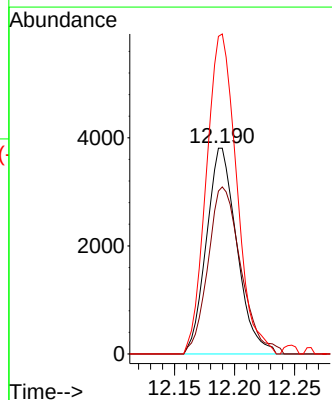
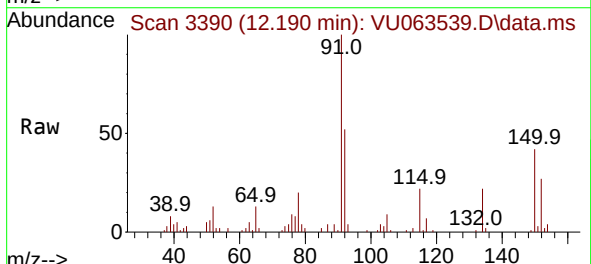
Instrument :
 MSVOA_U
 ClientSampleId :
 WS0725-PT-UNRVOA-WSDL

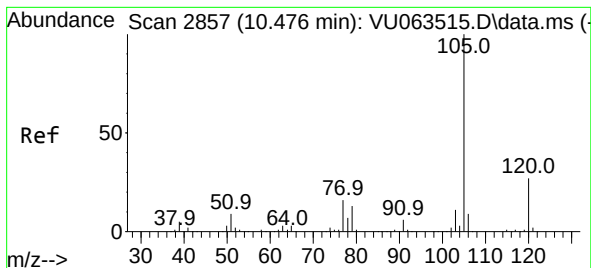
Tgt Ion:131 Resp: 12715
 Ion Ratio Lower Upper
 131 100
 133 91.5 74.7 112.1
 119 61.9 53.0 79.4



#68
 1,2-Dichlorobenzene-d4
 Concen: 1.048 ug/l
 RT: 12.190 min Scan# 3390
 Delta R.T. 0.003 min
 Lab File: VU063539.D
 Acq: 18 Jul 2025 16:24

Tgt Ion:152 Resp: 6716
 Ion Ratio Lower Upper
 152 100
 115 87.8 0.0 262.2
 150 154.9 0.0 651.2





#69

Isopropylbenzene

Concen: 1.545 ug/l

RT: 10.476 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU063539.D

Acq: 18 Jul 2025 16:24

Instrument :

MSVOA_U

ClientSampleId :

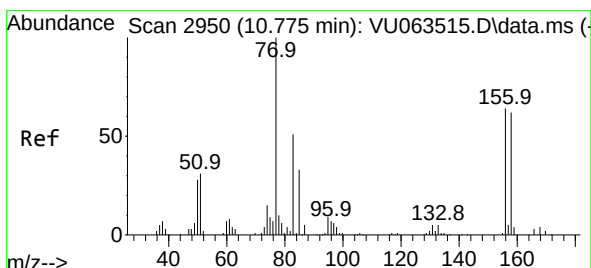
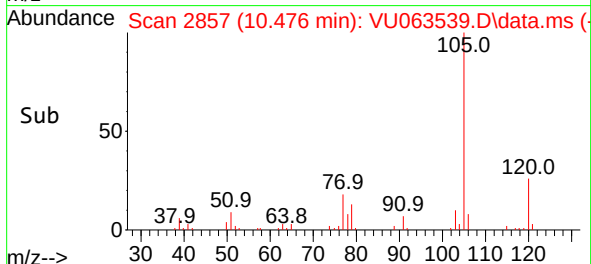
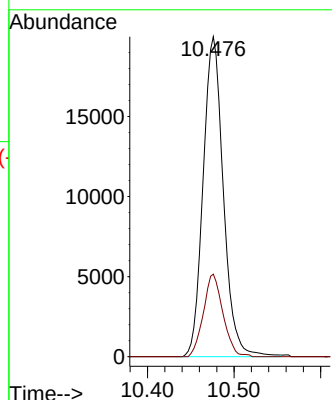
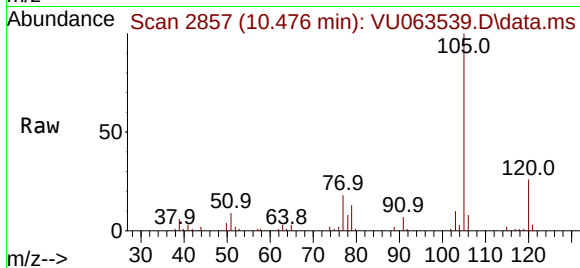
WS0725-PT-UNRVOA-WSDL

Tgt Ion:105 Resp: 32470

Ion Ratio Lower Upper

105 100

120 24.9 13.2 39.5



#70

1,1,2,2-Tetrachloroethane

Concen: 2.848 ug/l

RT: 10.772 min Scan# 2949

Delta R.T. -0.003 min

Lab File: VU063539.D

Acq: 18 Jul 2025 16:24

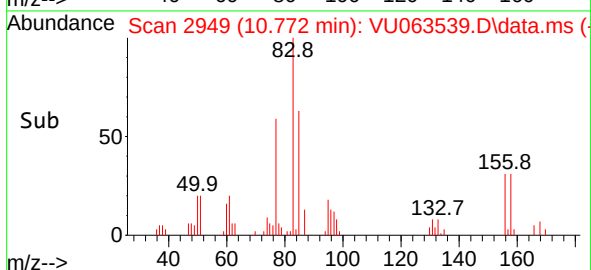
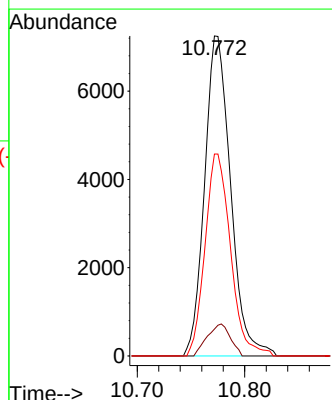
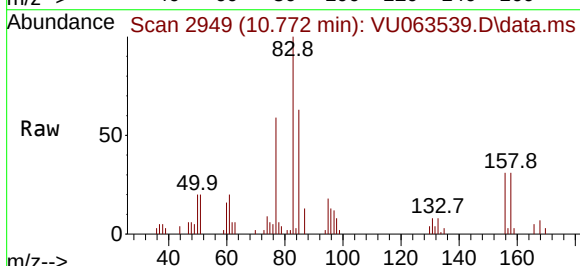
Tgt Ion: 83 Resp: 12200

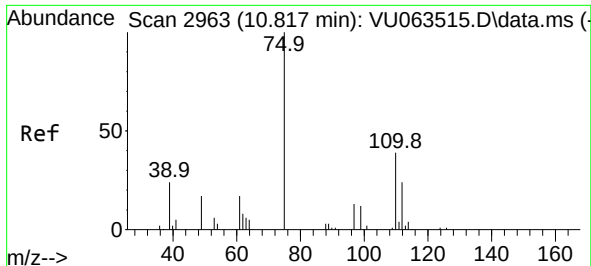
Ion Ratio Lower Upper

83 100

131 8.8 8.4 12.6

85 61.9 51.9 77.9

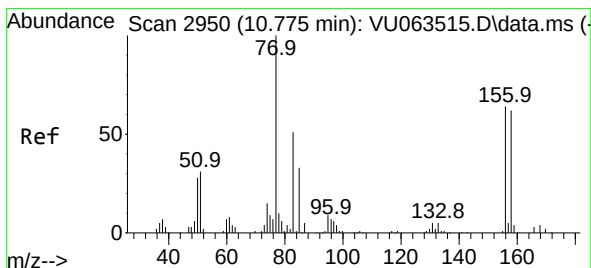
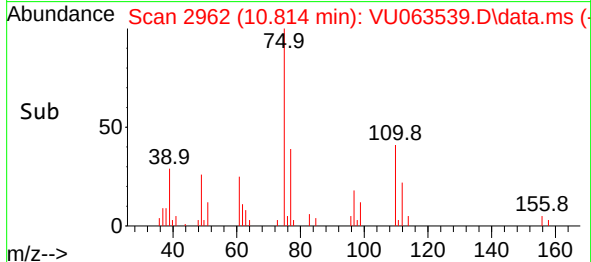
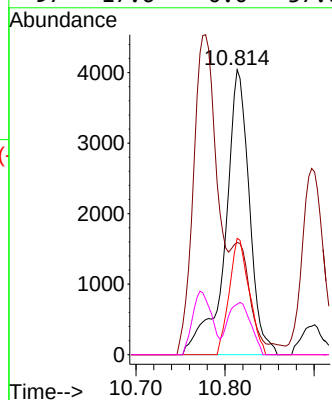
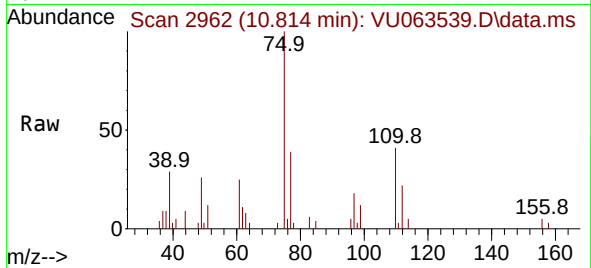




#71
1,2,3-Trichloropropane
Concen: 2.178 ug/l
RT: 10.814 min Scan# 2963
Delta R.T. -0.003 min
Lab File: VU063539.D
Acq: 18 Jul 2025 16:24

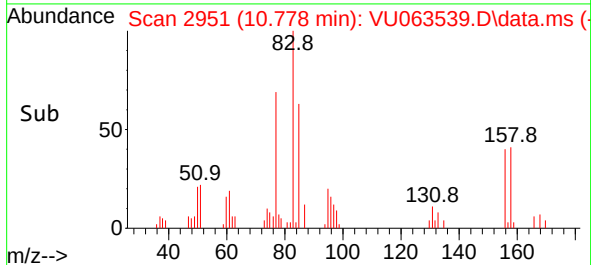
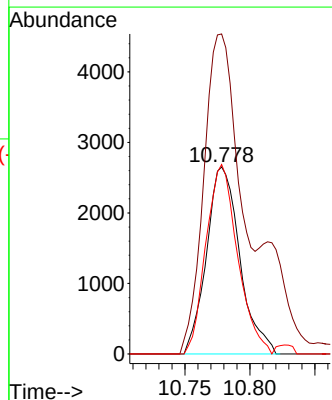
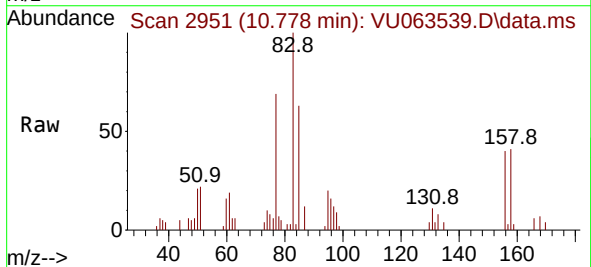
Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-UNRVOA-WSDL

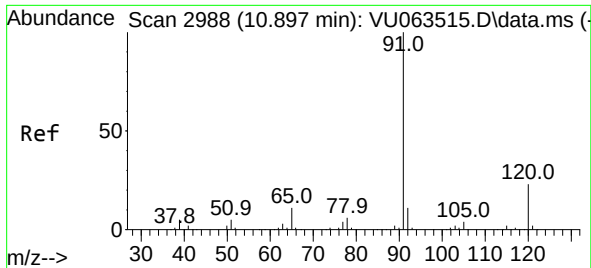
Tgt Ion:	75	Resp:	7577
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	33.7	0.0	73.2
97	17.6	0.0	37.6



#72
Bromobenzene
Concen: 0.872 ug/l
RT: 10.778 min Scan# 2951
Delta R.T. 0.003 min
Lab File: VU063539.D
Acq: 18 Jul 2025 16:24

Tgt Ion:	156	Resp:	4727
Ion	Ratio	Lower	Upper
156	100		
77	182.2	0.0	315.2
158	96.4	0.0	195.4

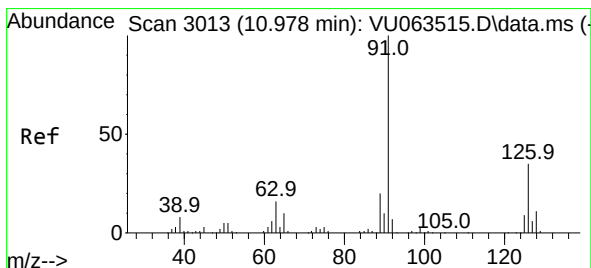
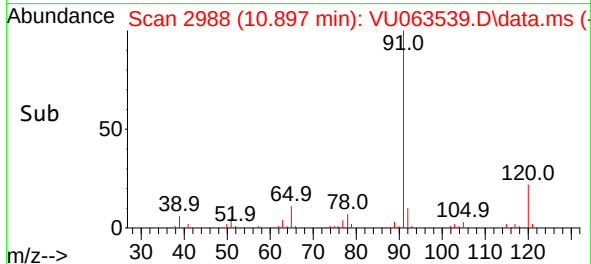
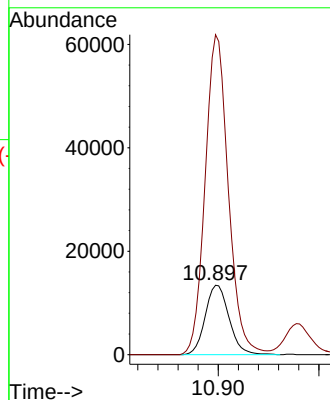
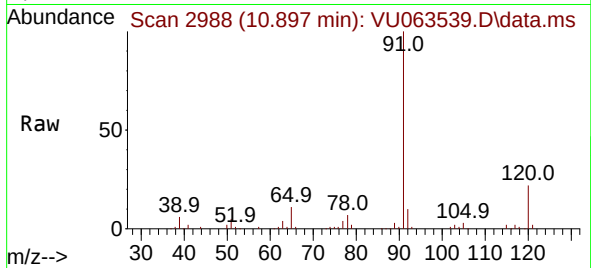




#73
n-propylbenzene
Concen: 3.489 ug/l
RT: 10.897 min Scan# 2988
Delta R.T. -0.000 min
Lab File: VU063539.D
Acq: 18 Jul 2025 16:24

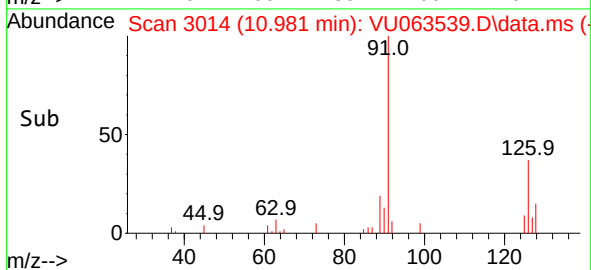
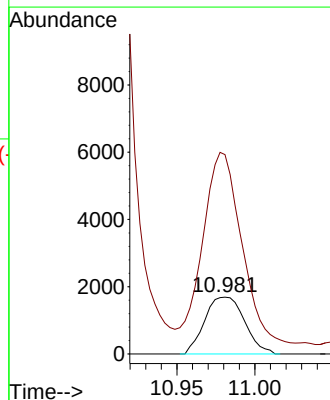
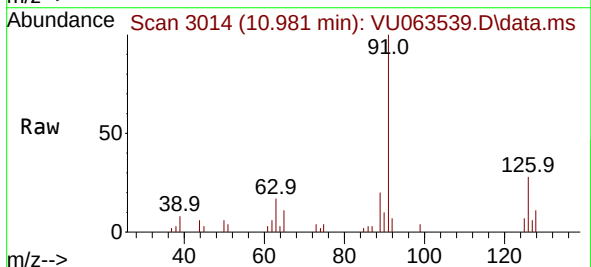
Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-UNRVOA-WSDL

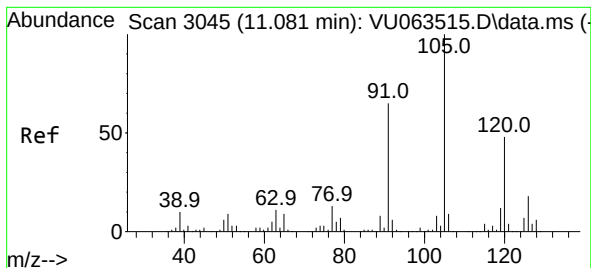
Tgt Ion:120 Resp: 22074
Ion Ratio Lower Upper
120 100
91 449.2 343.1 514.7



#74
2-Chlorotoluene
Concen: 0.537 ug/l
RT: 10.981 min Scan# 3014
Delta R.T. 0.003 min
Lab File: VU063539.D
Acq: 18 Jul 2025 16:24

Tgt Ion:126 Resp: 3005
Ion Ratio Lower Upper
126 100
91 334.7 0.0 606.0





#75

1,3,5-Trimethylbenzene

Concen: 0.915 ug/l

RT: 11.081 min Scan# 3045

Delta R.T. -0.000 min

Lab File: VU063539.D

Acq: 18 Jul 2025 16:24

Instrument :

MSVOA_U

ClientSampleId :

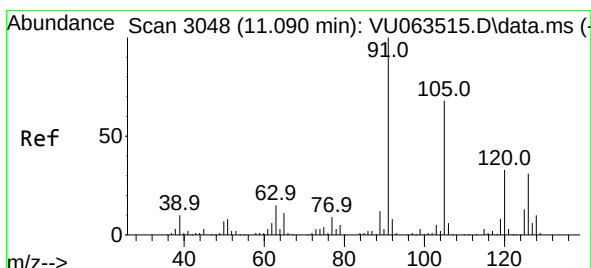
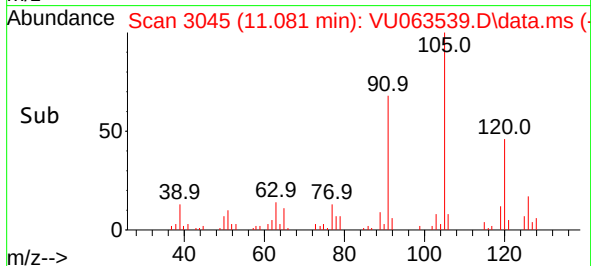
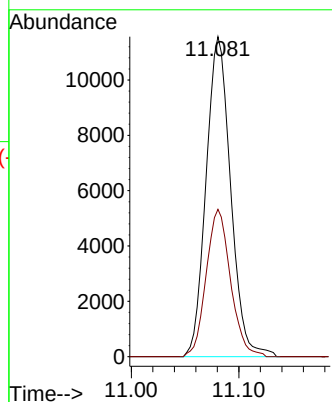
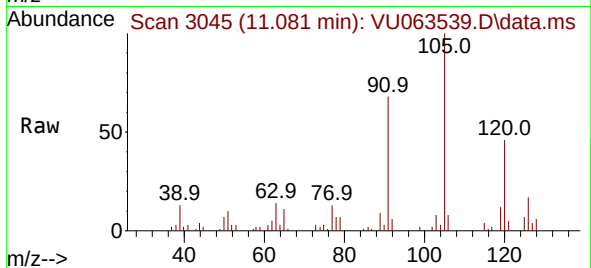
WS0725-PT-UNRVOA-WSDL

Tgt Ion:105 Resp: 18365

Ion Ratio Lower Upper

105 100

120 45.7 37.8 56.8



#76

4-Chlorotoluene

Concen: 1.182 ug/l

RT: 11.090 min Scan# 3048

Delta R.T. -0.000 min

Lab File: VU063539.D

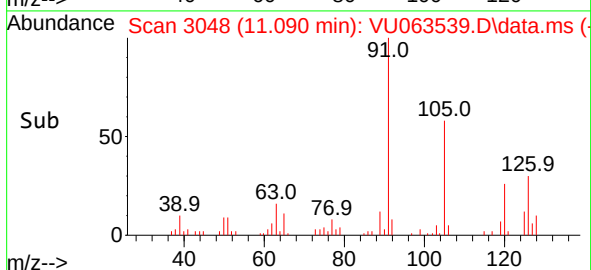
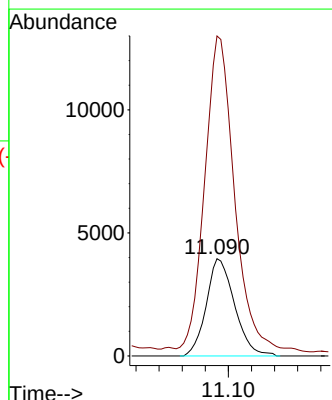
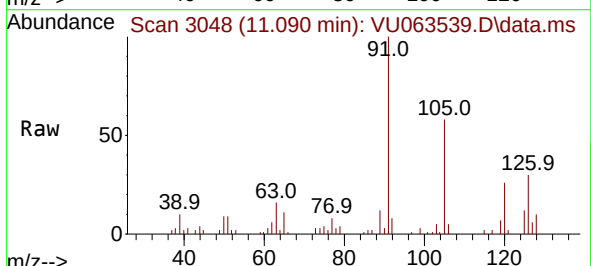
Acq: 18 Jul 2025 16:24

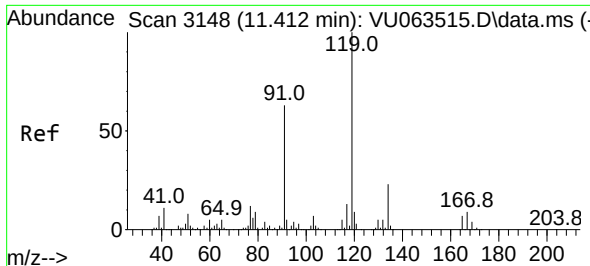
Tgt Ion:126 Resp: 6710

Ion Ratio Lower Upper

126 100

91 343.1 0.0 682.2

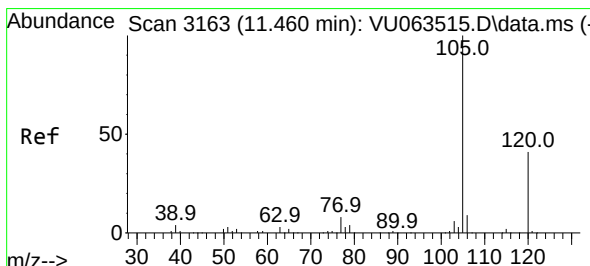
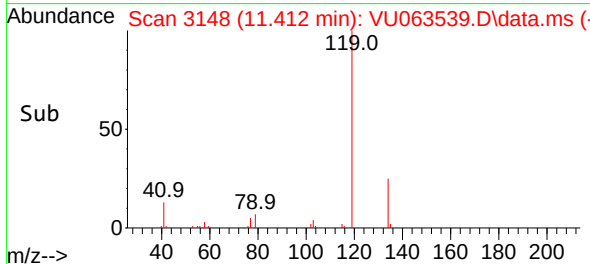
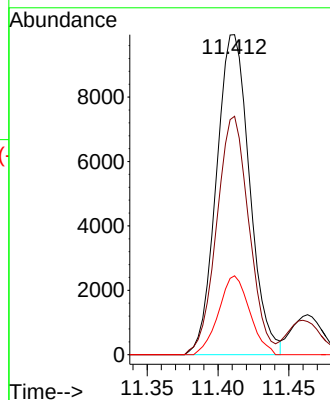
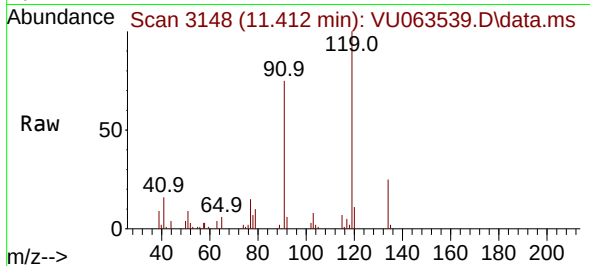




#77
tert-Butylbenzene
Concen: 0.845 ug/l
RT: 11.412 min Scan# 3148
Delta R.T. -0.000 min
Lab File: VU063539.D
Acq: 18 Jul 2025 16:24

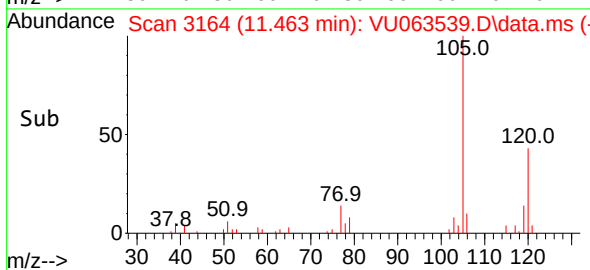
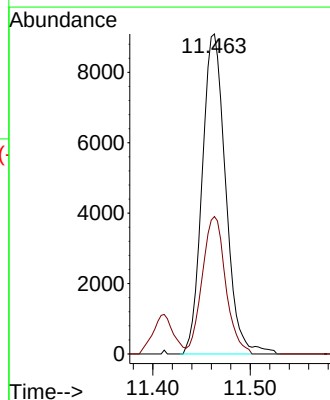
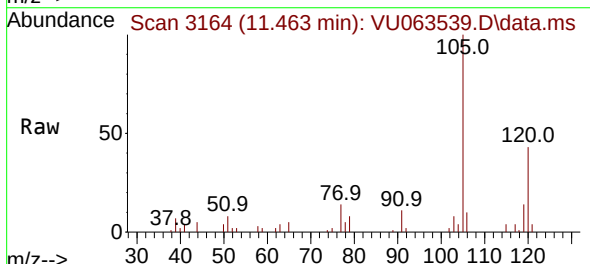
Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-UNRVOA-WSDL

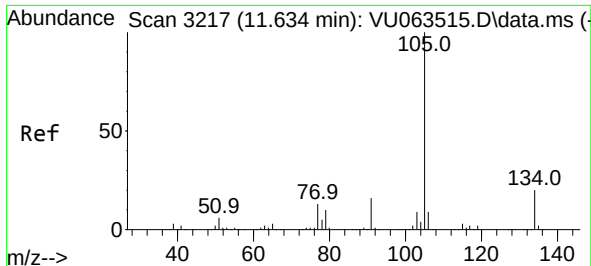
Tgt Ion:	119	Resp:	16207
Ion Ratio	Lower	Upper	
119	100		
91	72.5	30.7	92.1
134	23.1	18.5	27.7



#78
1,2,4-Trimethylbenzene
Concen: 0.764 ug/l
RT: 11.463 min Scan# 3164
Delta R.T. 0.003 min
Lab File: VU063539.D
Acq: 18 Jul 2025 16:24

Tgt Ion:	105	Resp:	15217
Ion Ratio	Lower	Upper	
105	100		
120	42.8	22.7	68.0

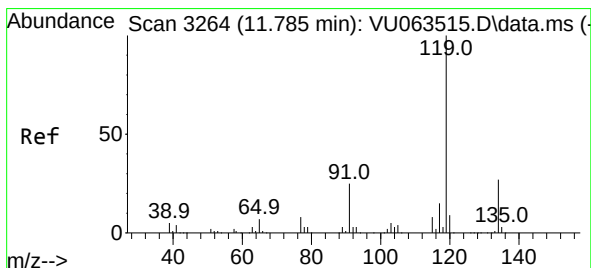
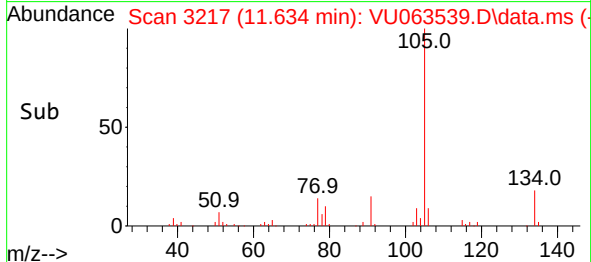
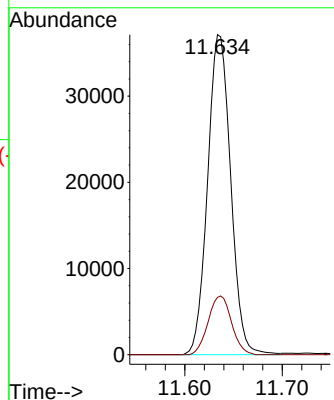
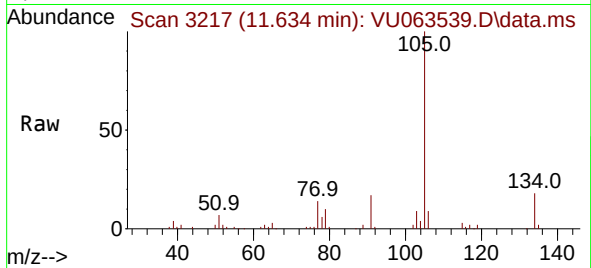




#79
 sec-Butylbenzene
 Concen: 2.366 ug/l
 RT: 11.634 min Scan# 3217
 Delta R.T. -0.000 min
 Lab File: VU063539.D
 Acq: 18 Jul 2025 16:24

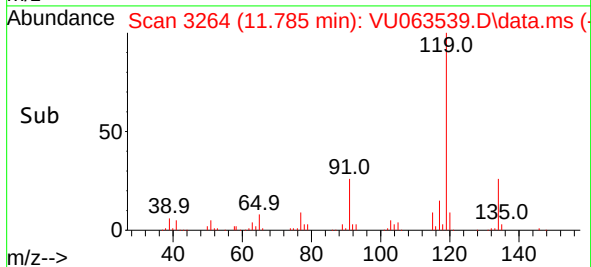
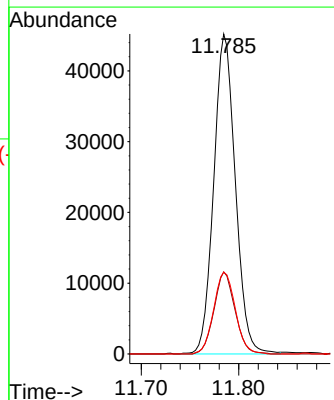
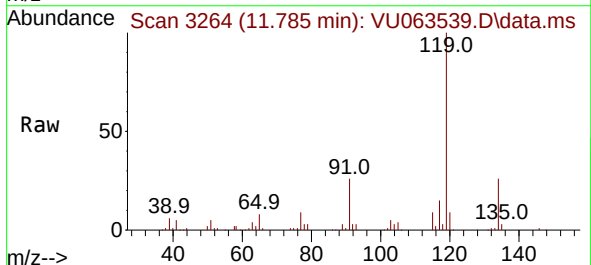
Instrument :
 MSVOA_U
 ClientSampleId :
 WS0725-PT-UNRVOA-WSDL

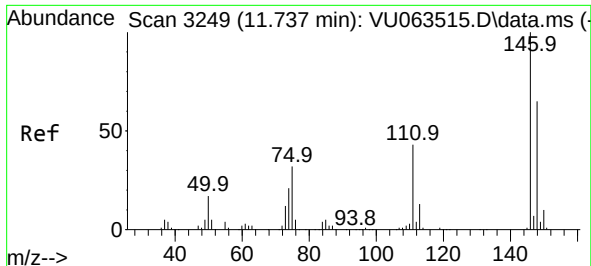
Tgt Ion:105 Resp: 61202
 Ion Ratio Lower Upper
 105 100
 134 18.6 16.2 24.4



#81
 p-Isopropyltoluene
 Concen: 3.224 ug/l
 RT: 11.785 min Scan# 3264
 Delta R.T. -0.000 min
 Lab File: VU063539.D
 Acq: 18 Jul 2025 16:24

Tgt Ion:119 Resp: 69619
 Ion Ratio Lower Upper
 119 100
 134 24.9 21.1 31.7
 91 25.6 19.8 29.8





#82

1,3-Dichlorobenzene

Concen: 1.281 ug/l

RT: 11.743 min Scan# 31

Delta R.T. 0.006 min

Lab File: VU063539.D

Acq: 18 Jul 2025 16:24

Instrument :

MSVOA_U

ClientSampleId :

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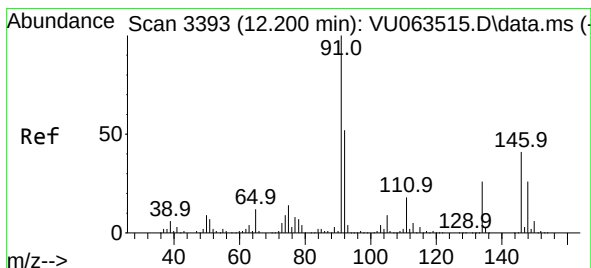
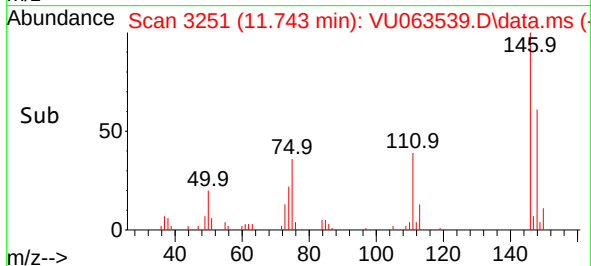
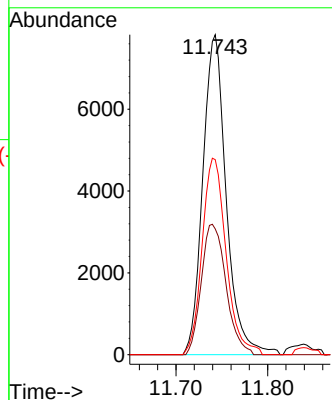
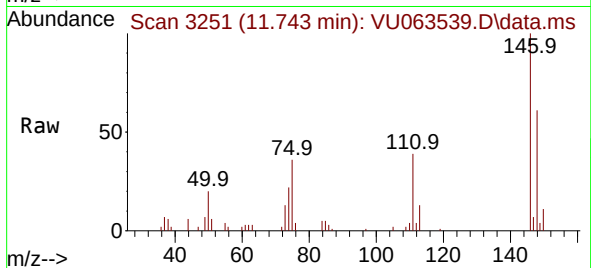
Tgt Ion:146 Resp: 13904

Ion Ratio Lower Upper

146 100

111 42.9 33.8 50.6

148 62.9 51.5 77.3



#84

n-Butylbenzene

Concen: 2.355 ug/l

RT: 12.203 min Scan# 3394

Delta R.T. 0.003 min

Lab File: VU063539.D

Acq: 18 Jul 2025 16:24

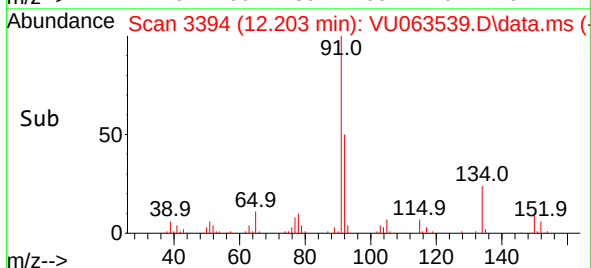
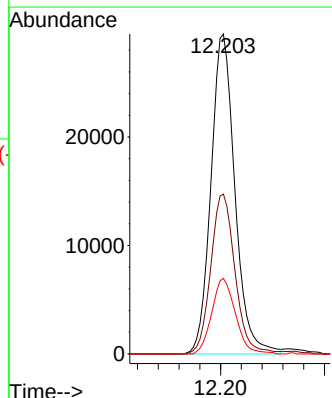
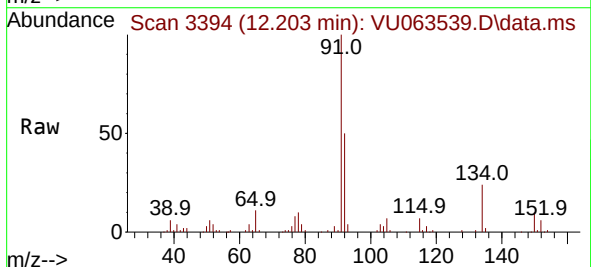
Tgt Ion: 91 Resp: 47169

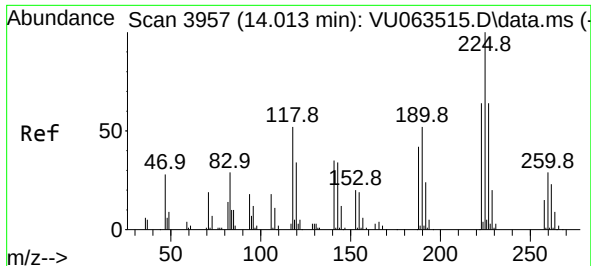
Ion Ratio Lower Upper

91 100

92 50.5 41.5 62.3

134 23.3 20.6 30.8

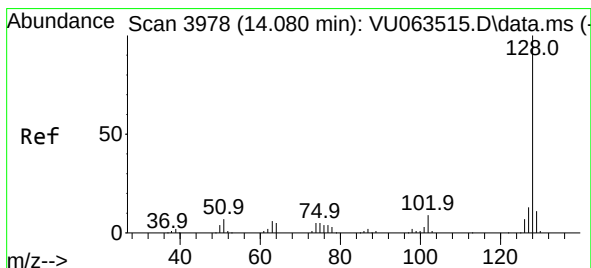
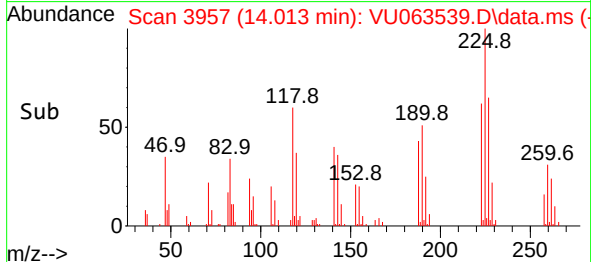
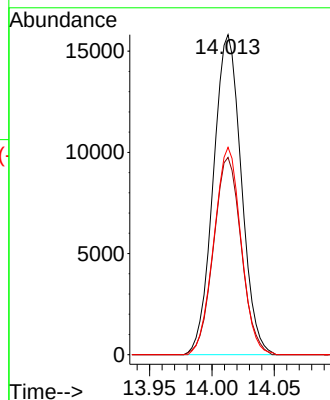
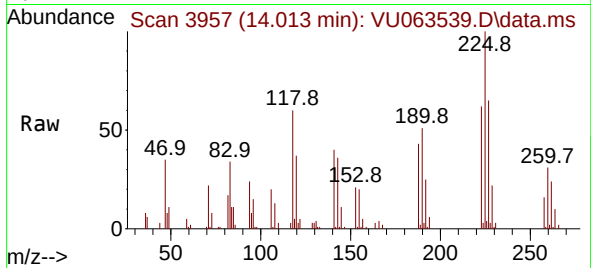




#88
Hexachlorobutadiene
Concen: 6.876 ug/l
RT: 14.013 min Scan# 3957
Delta R.T. -0.000 min
Lab File: VU063539.D
Acq: 18 Jul 2025 16:24

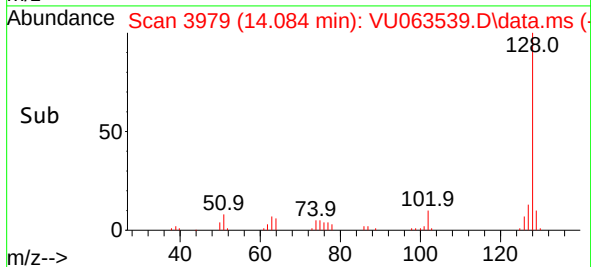
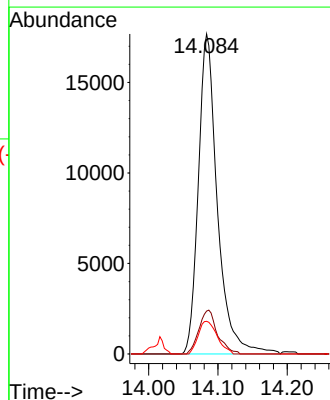
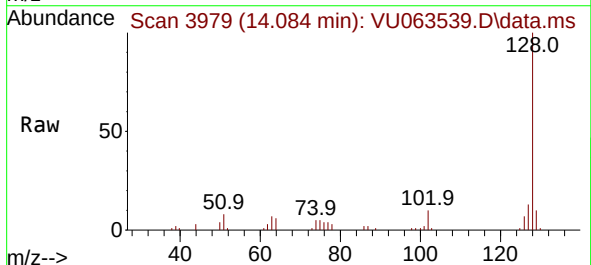
Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-UNRVOA-WSDL

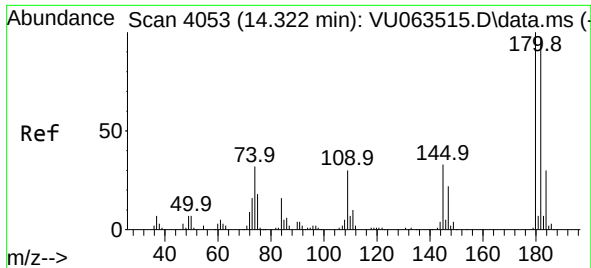
Tgt Ion:225 Resp: 24756
Ion Ratio Lower Upper
225 100
223 61.1 50.8 76.2
227 62.9 51.0 76.6



#89
Naphthalene
Concen: 2.971 ug/l
RT: 14.084 min Scan# 3979
Delta R.T. 0.004 min
Lab File: VU063539.D
Acq: 18 Jul 2025 16:24

Tgt Ion:128 Resp: 33751
Ion Ratio Lower Upper
128 100
127 13.3 10.2 15.4
129 10.2 8.8 13.2





#90
 1,2,3-Trichlorobenzene
 Concen: 5.585 ug/l
 RT: 14.322 min Scan# 4053
 Delta R.T. -0.000 min
 Lab File: VU063539.D
 Acq: 18 Jul 2025 16:24

Instrument :
 MSVOA_U
 ClientSampleId :
 WS0725-PT-UNRVOA-WSDL

Tgt Ion:180 Resp: 32717
 Ion Ratio Lower Upper
 180 100
 182 95.0 78.0 117.0
 145 35.7 27.3 40.9

