

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU091525\
 Data File : VU063580.D
 Acq On : 15 Sep 2025 15:44
 Operator : MD/SY
 Sample : Q2552-07
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 16 05:42:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U091225DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Sep 16 05:42:14 2025
 Response via : Initial Calibration

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

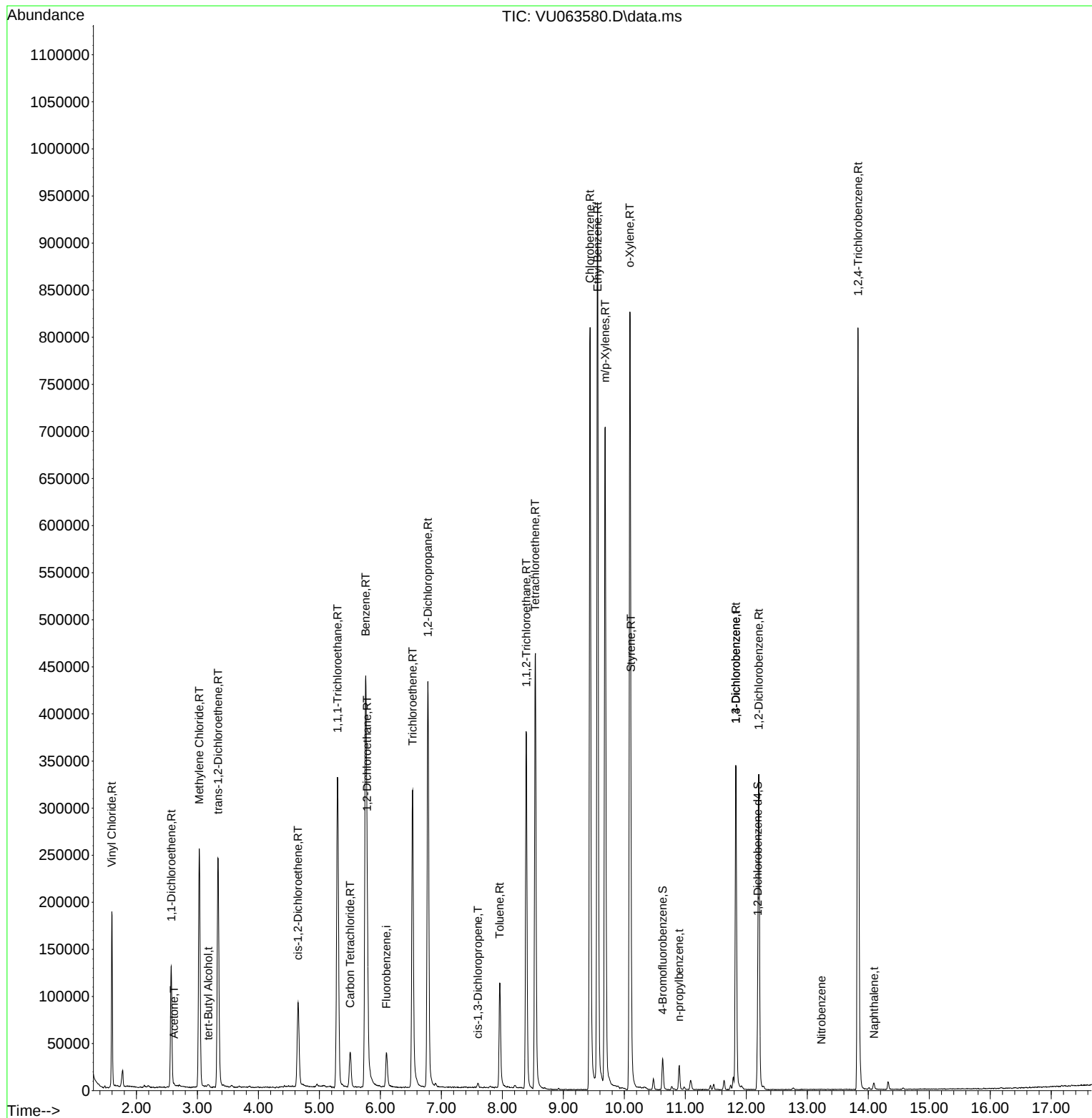
Internal Standards						
1) Fluorobenzene	6.097	96	33411	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.628	95	11435	0.919	ug/l	0.00
Spiked Amount 1.000			Recovery	=	92.000%	
68) 1,2-Dichlorobenzene-d4	12.187	152	12678	0.999	ug/l	0.00
Spiked Amount 1.000			Recovery	=	100.000%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.596	62	119904	10.250	ug/l	99
9) 1,1-Dichloroethene	2.570	96	41246	4.737	ug/l	99
13) Acetone	2.615	43	1299	0.348	ug/l #	69
15) Methylene Chloride	3.030	84	107748	9.366	ug/l	97
16) trans-1,2-Dichloroethene	3.339	96	96272	10.377	ug/l	93
22) cis-1,2-Dichloroethene	4.647	96	43008	3.776	ug/l	89
24) tert-Butyl Alcohol	3.178	59	1553	1.518	ug/l #	72
28) 1,1,1-Trichloroethane	5.297	97	227793	13.935	ug/l	99
30) Carbon Tetrachloride	5.503	117	21029	1.747	ug/l	97
35) Benzene	5.757	78	411096	9.402	ug/l	97
36) 1,2-Dichloroethane	5.782	62	135709	9.198	ug/l	99
37) Trichloroethene	6.528	130	106354	9.772	ug/l	98
38) 1,2-Dichloropropane	6.779	63	165721	14.306	ug/l	100
49) Toluene	7.956	92	48001	2.023	ug/l	97
51) cis-1,3-Dichloropropene	7.599	75	2632	0.223	ug/l	93
52) 1,1,2-Trichloroethane	8.390	97	114914	14.618	ug/l	97
58) Tetrachloroethene	8.538	164	101804	9.498	ug/l	96
59) Chlorobenzene	9.438	112	446307	16.323	ug/l	99
63) Ethyl Benzene	9.560	91	691760	14.817	ug/l	98
64) m/p-Xylenes	9.686	106	209151	11.658	ug/l	100
65) o-Xylene	10.091	106	209563	11.670	ug/l	98
66) Styrene	10.107	104	73010	2.547	ug/l #	58
73) n-propylbenzene	10.898	120	4511	0.358	ug/l	89
80) Nitrobenzene	13.232	77	67	3.617	ug/l #	42
82) 1,3-Dichlorobenzene	11.830	146	140967	6.194	ug/l	98
83) 1,4-Dichlorobenzene	11.830	146	140967	6.030	ug/l	99
85) 1,2-Dichlorobenzene	12.203	146	125252	5.706	ug/l	98
87) 1,2,4-Trichlorobenzene	13.833	180	250047	18.812	ug/l	98
89) Naphthalene	14.094	128	7317	0.311	ug/l #	93

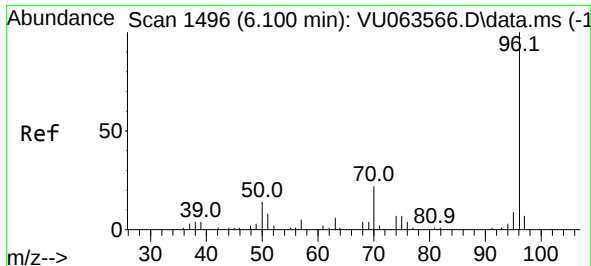
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU091525\
Data File : VU063580.D
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Instrument :
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ClientSampleId :

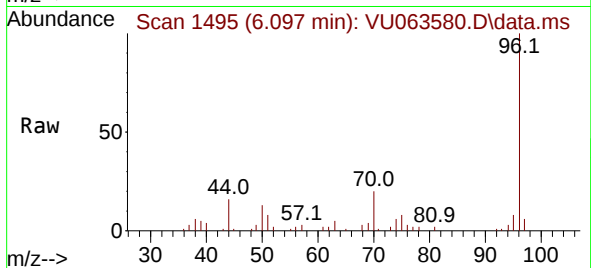
Quant Time: Sep 16 05:42:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U091225DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Sep 16 05:42:14 2025
Response via : Initial Calibration



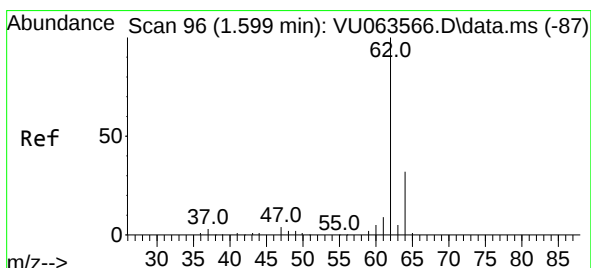
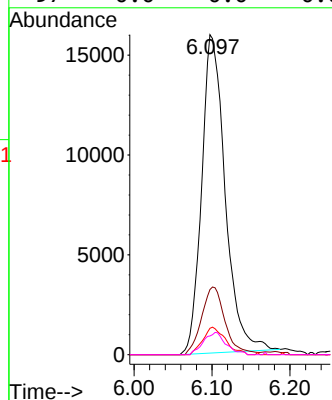
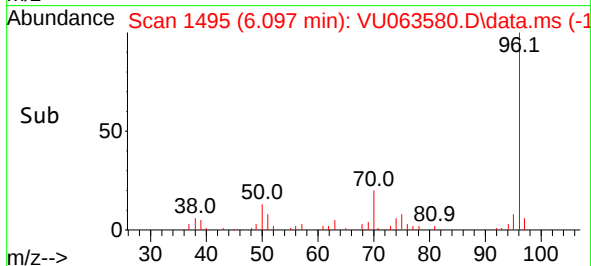


#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.097 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

Instrument :
MSVOA_U
ClientSampleId :

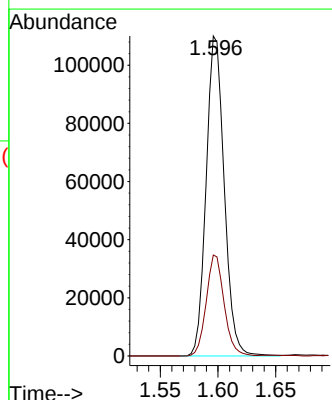
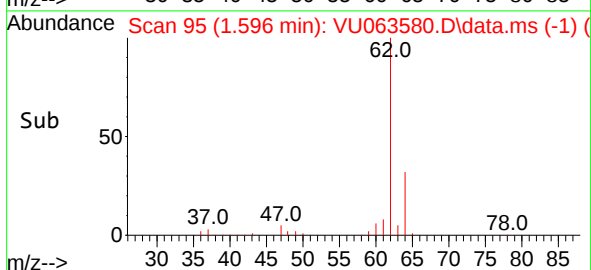
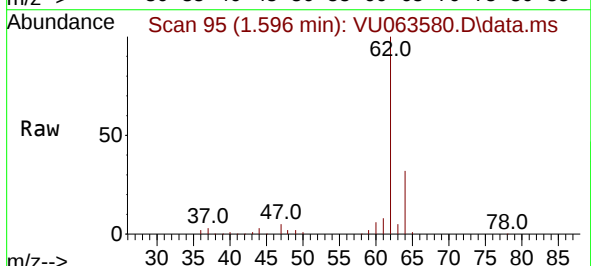


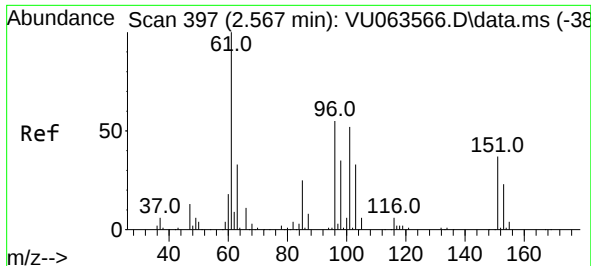
Tgt Ion: 96	Resp: 33411
Ion Ratio	Lower Upper
96 100	
70 20.4	15.5 23.3
95 8.3	7.7 11.5
97 0.0	0.0 0.0



#4
Vinyl Chloride
Concen: 10.250 ug/l
RT: 1.596 min Scan# 95
Delta R.T. -0.003 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

Tgt Ion: 62	Resp: 119904
Ion Ratio	Lower Upper
62 100	
64 31.5	25.5 38.3

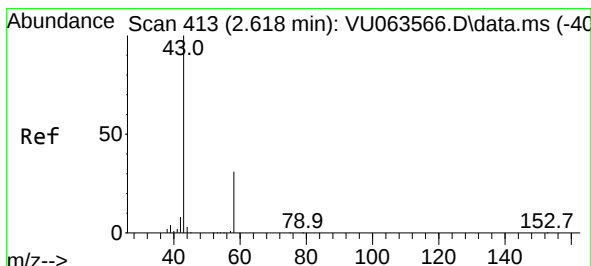
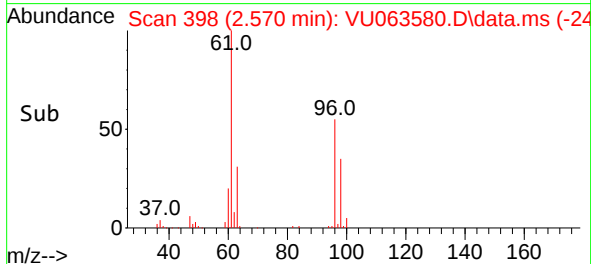
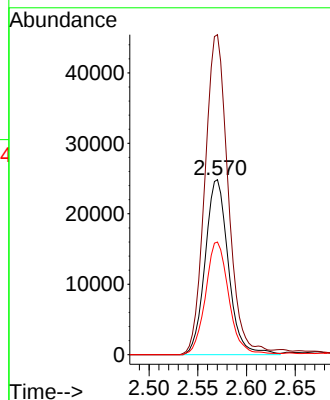
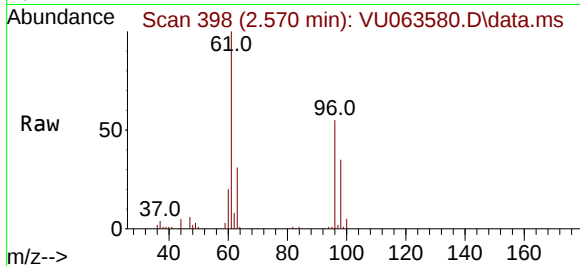




#9
1,1-Dichloroethene
Concen: 4.737 ug/l
RT: 2.570 min Scan# 397
Delta R.T. 0.004 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

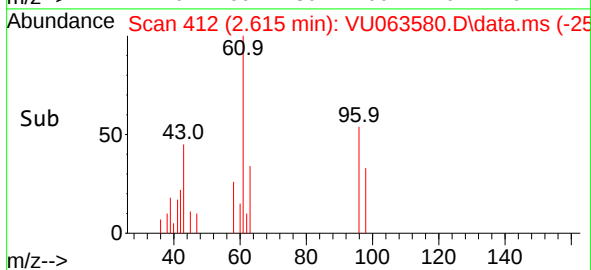
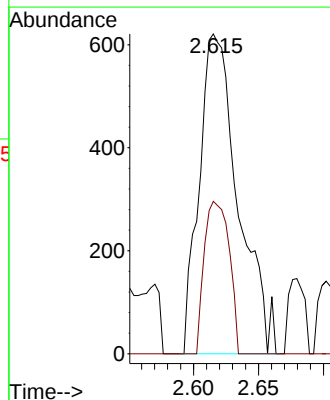
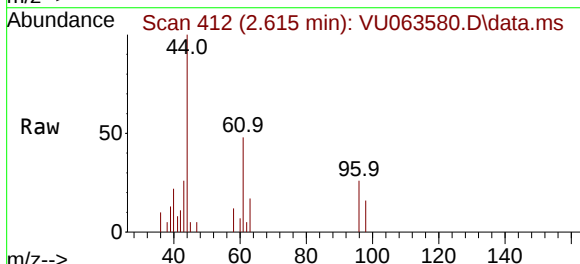
Instrument :
MSVOA_U
ClientSampleId :

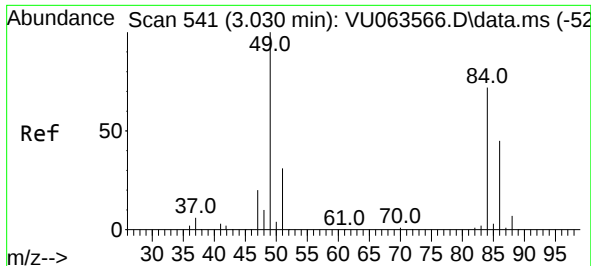
Tgt Ion: 96 Resp: 41246
Ion Ratio Lower Upper
96 100
61 182.9 0.0 543.9
98 64.4 0.0 125.8



#13
Acetone
Concen: 0.348 ug/l
RT: 2.615 min Scan# 412
Delta R.T. -0.003 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

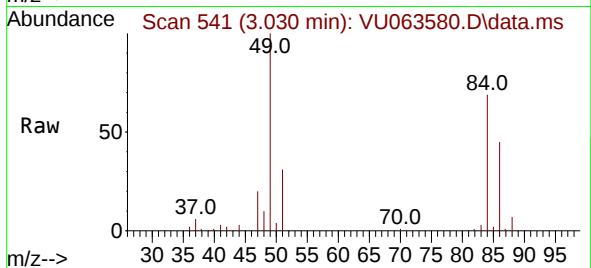
Tgt Ion: 43 Resp: 1299
Ion Ratio Lower Upper
43 100
58 47.7 24.7 37.1#



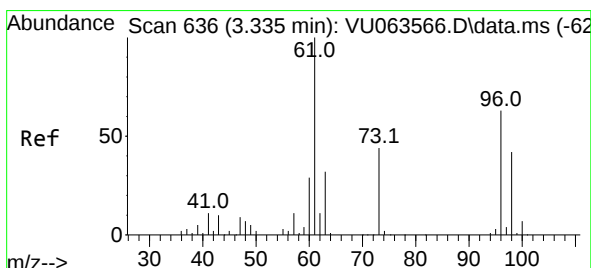
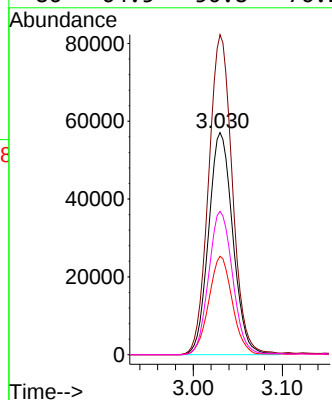
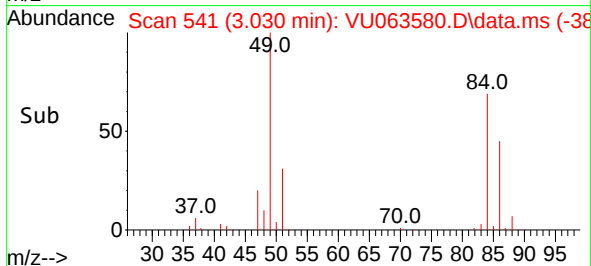


#15
Methylene Chloride
Concen: 9.366 ug/l
RT: 3.030 min Scan# 541
Delta R.T. 0.000 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

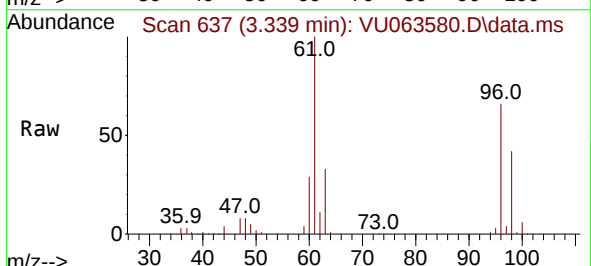
Instrument :
MSVOA_U
ClientSampleId :



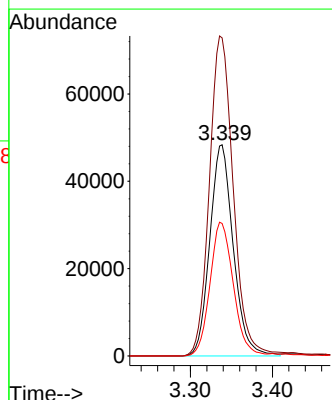
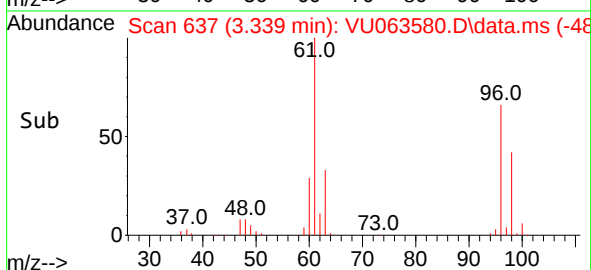
Tgt Ion:	84	Resp:	107748
Ion	Ratio	Lower	Upper
84	100		
49	144.1	111.8	167.6
51	44.3	0.0	86.0
86	64.5	50.8	76.2

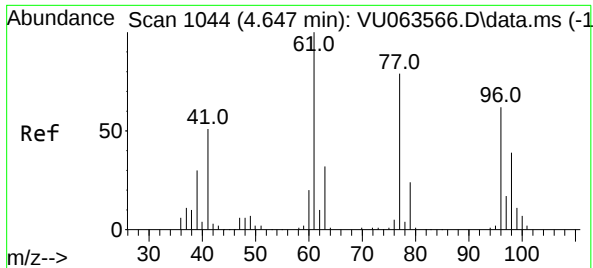


#16
trans-1,2-Dichloroethene
Concen: 10.377 ug/l
RT: 3.339 min Scan# 637
Delta R.T. 0.004 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44



Tgt Ion:	96	Resp:	96272
Ion	Ratio	Lower	Upper
96	100		
61	150.5	127.8	191.6
98	62.7	53.8	80.8





#22

cis-1,2-Dichloroethene

Concen: 3.776 ug/l

RT: 4.647 min Scan# 1044

Delta R.T. 0.000 min

Lab File: VU063580.D

Acq: 15 Sep 2025 15:44

Instrument :

MSVOA_U

ClientSampleId :

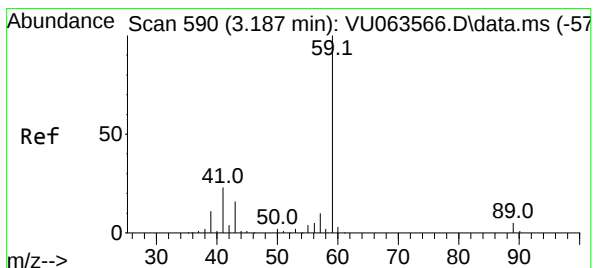
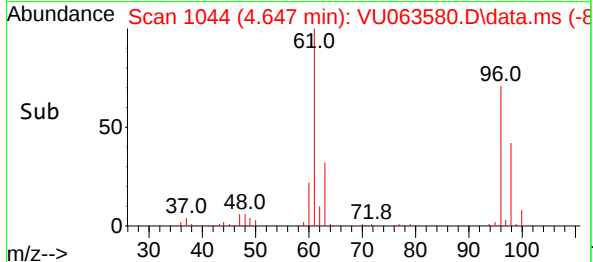
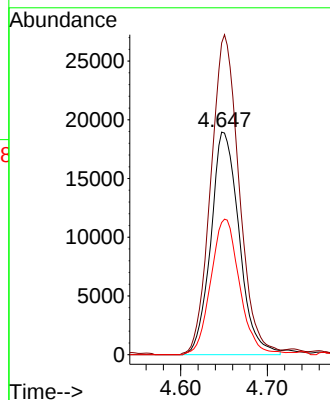
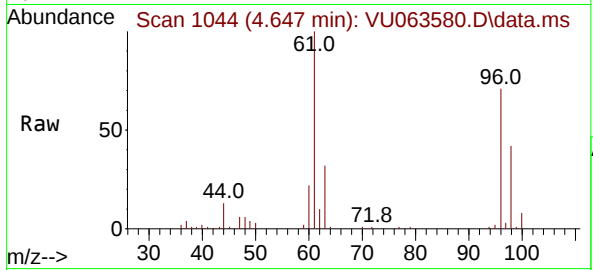
Tgt Ion: 96 Resp: 43008

Ion Ratio Lower Upper

96 100

61 144.2 0.0 411.0

98 62.0 31.9 95.9



#24

tert-Butyl Alcohol

Concen: 1.518 ug/l

RT: 3.178 min Scan# 587

Delta R.T. -0.009 min

Lab File: VU063580.D

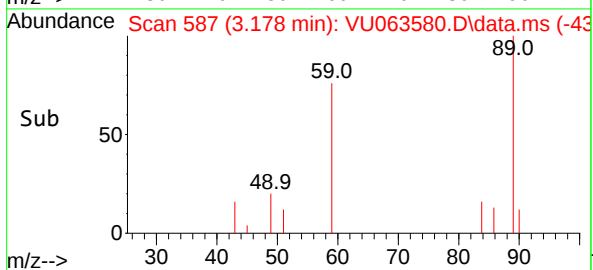
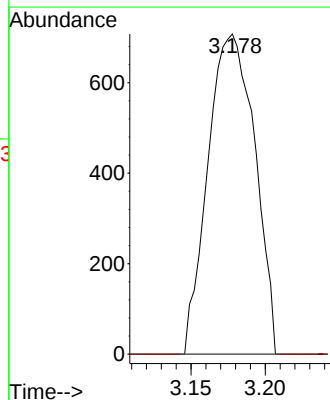
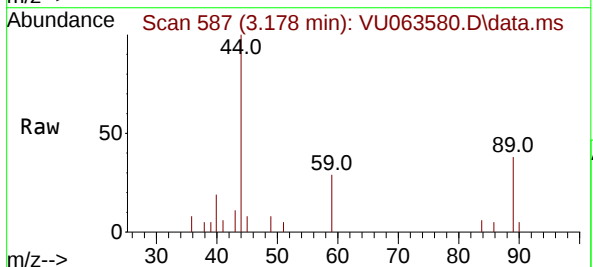
Acq: 15 Sep 2025 15:44

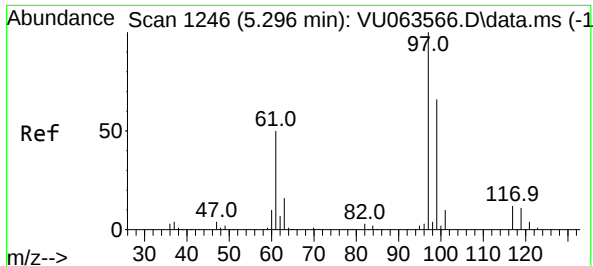
Tgt Ion: 59 Resp: 1553

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#





#28

1,1,1-Trichloroethane

Concen: 13.935 ug/l

RT: 5.297 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU063580.D

Acq: 15 Sep 2025 15:44

Instrument :

MSVOA_U

ClientSampleId :

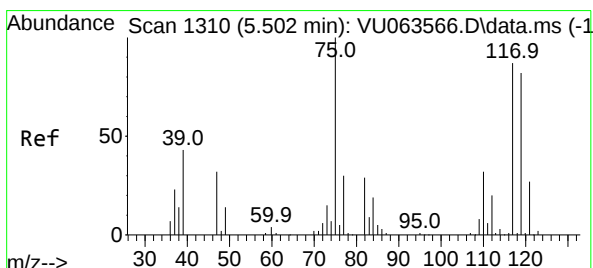
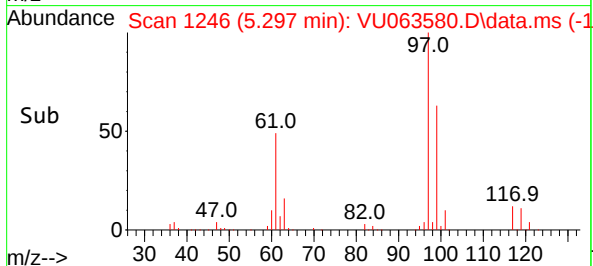
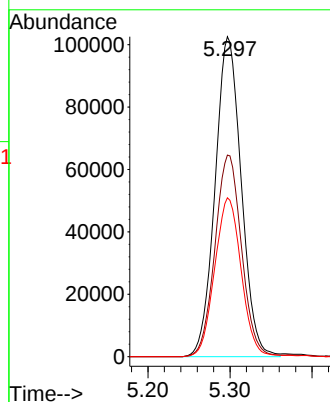
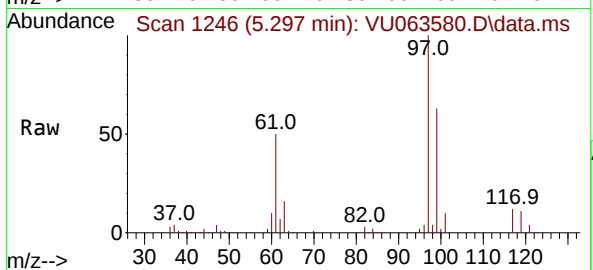
Tgt Ion: 97 Resp: 227793

Ion Ratio Lower Upper

97 100

99 63.9 32.4 97.0

61 50.4 25.1 75.4



#30

Carbon Tetrachloride

Concen: 1.747 ug/l

RT: 5.503 min Scan# 1310

Delta R.T. 0.000 min

Lab File: VU063580.D

Acq: 15 Sep 2025 15:44

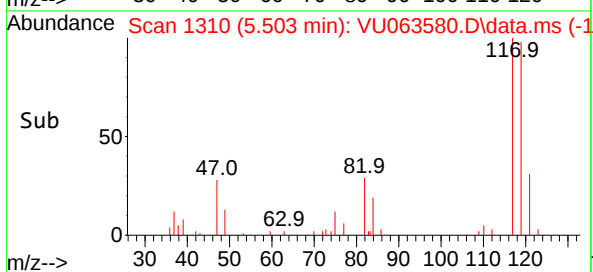
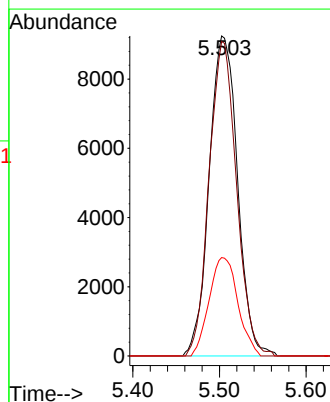
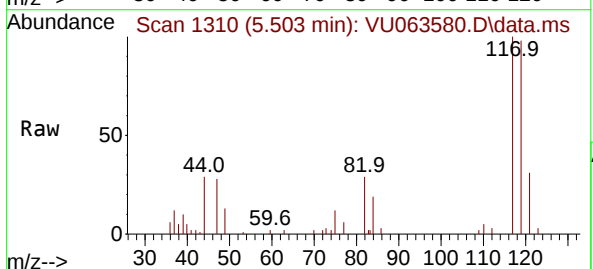
Tgt Ion: 117 Resp: 21029

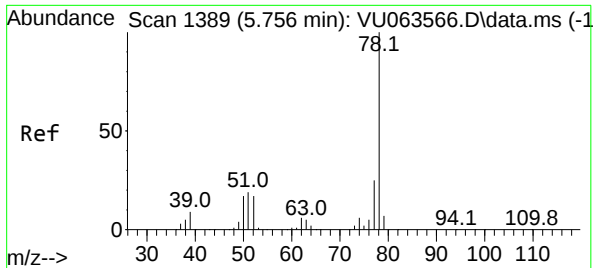
Ion Ratio Lower Upper

117 100

119 98.2 75.7 113.5

121 30.8 25.4 38.0

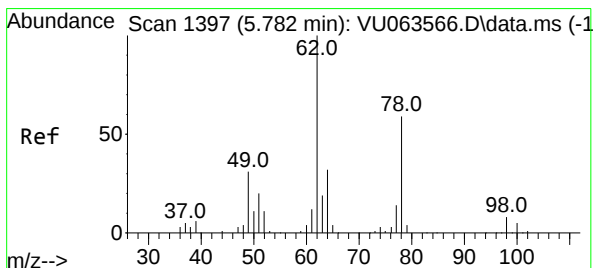
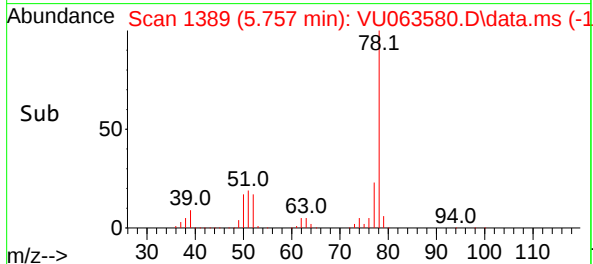
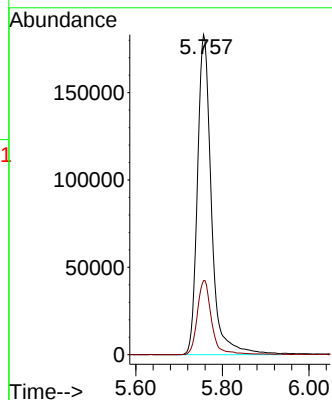
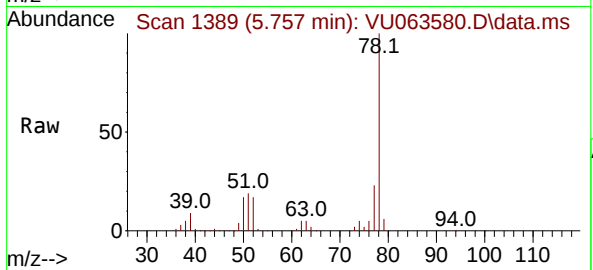




#35
Benzene
Concen: 9.402 ug/l
RT: 5.757 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

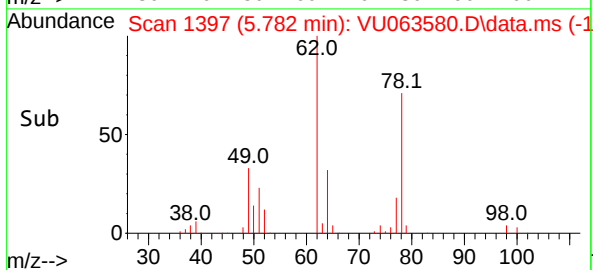
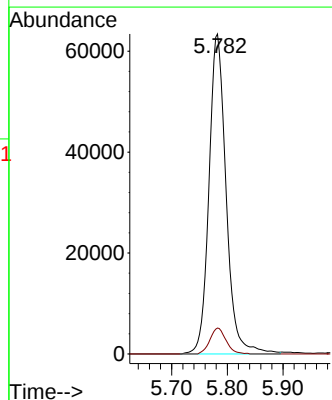
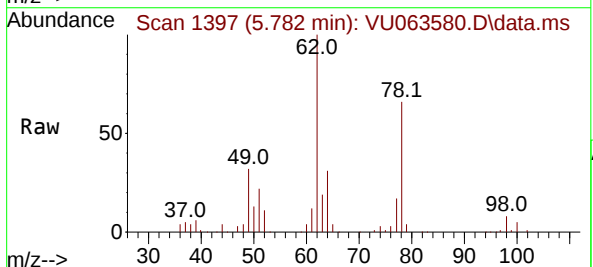
Instrument :
MSVOA_U
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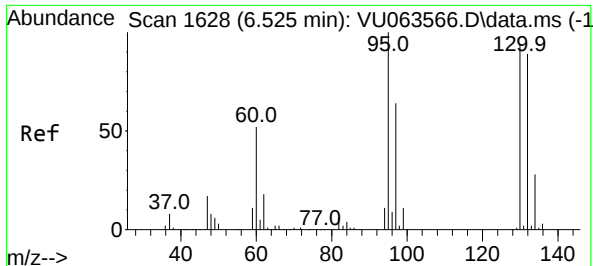
Tgt Ion: 78 Resp: 411096
Ion Ratio Lower Upper
78 100
77 23.1 19.8 29.8



#36
1,2-Dichloroethane
Concen: 9.198 ug/l
RT: 5.782 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

Tgt Ion: 62 Resp: 135709
Ion Ratio Lower Upper
62 100
98 7.6 6.3 9.5





#37

Trichloroethene

Concen: 9.772 ug/l

RT: 6.528 min Scan# 1

Delta R.T. 0.004 min

Lab File: VU063580.D

Acq: 15 Sep 2025 15:44

Instrument :

MSVOA_U

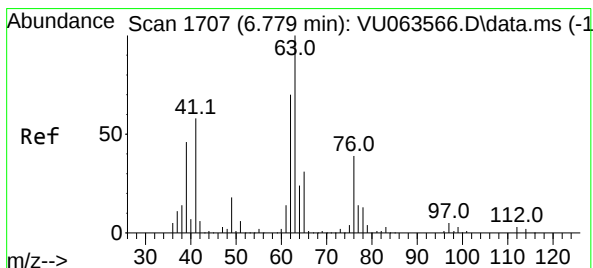
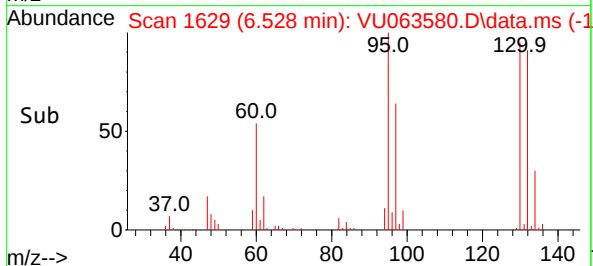
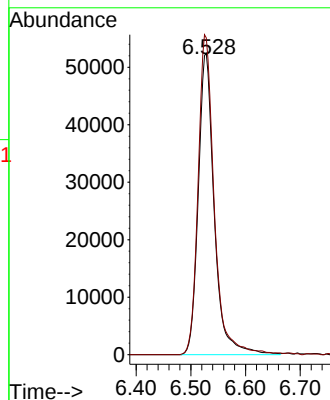
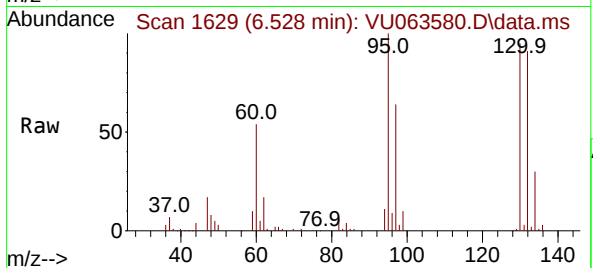
ClientSampleId :

Tgt Ion:130 Resp: 106354

Ion Ratio Lower Upper

130 100

95 105.2 85.4 128.2



#38

1,2-Dichloropropane

Concen: 14.306 ug/l

RT: 6.779 min Scan# 1707

Delta R.T. 0.000 min

Lab File: VU063580.D

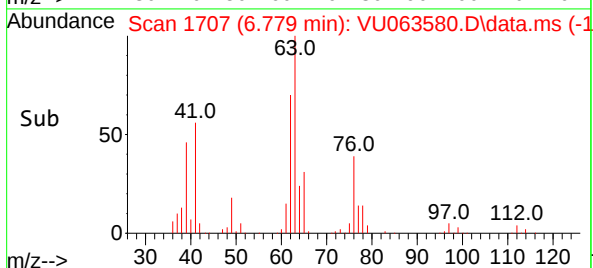
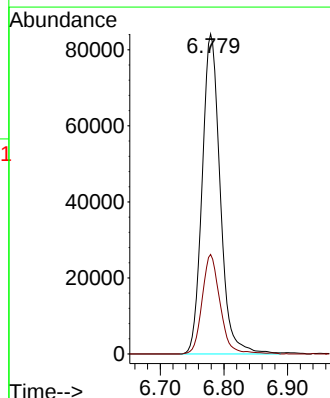
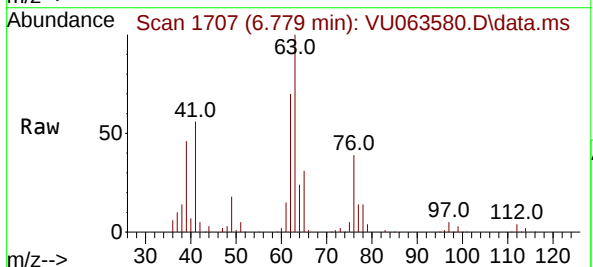
Acq: 15 Sep 2025 15:44

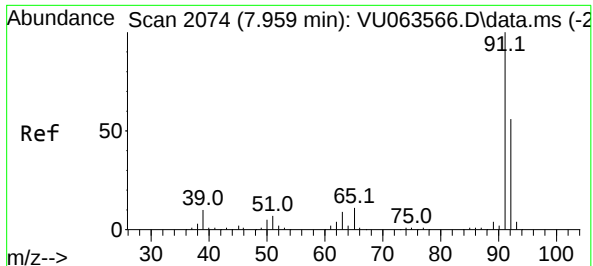
Tgt Ion: 63 Resp: 165721

Ion Ratio Lower Upper

63 100

65 31.1 24.9 37.3





#49

Toluene

Concen: 2.023 ug/l

RT: 7.956 min Scan# 2074

Delta R.T. -0.003 min

Lab File: VU063580.D

Acq: 15 Sep 2025 15:44

Instrument :

MSVOA_U

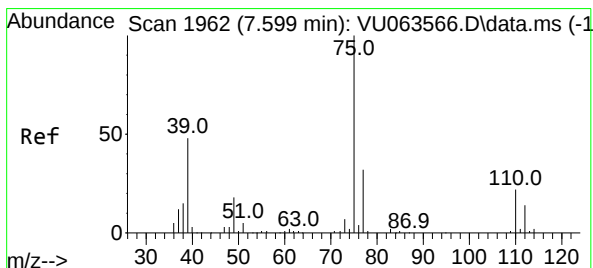
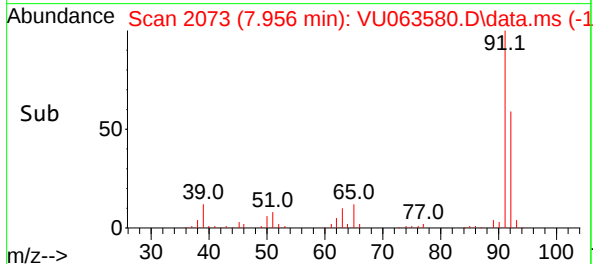
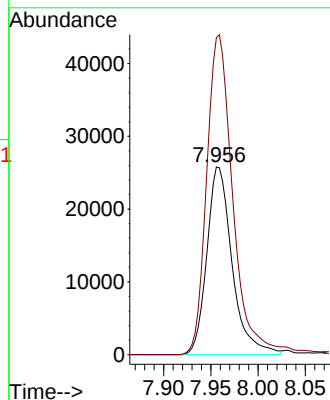
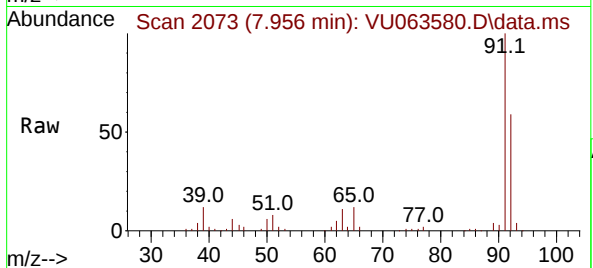
ClientSampleId :

Tgt Ion: 92 Resp: 48001

Ion Ratio Lower Upper

92 100

91 178.3 139.4 209.2



#51

cis-1,3-Dichloropropene

Concen: 0.223 ug/l

RT: 7.599 min Scan# 1962

Delta R.T. 0.000 min

Lab File: VU063580.D

Acq: 15 Sep 2025 15:44

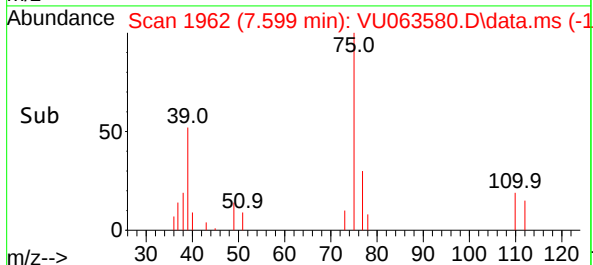
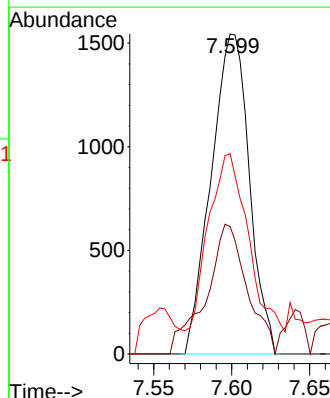
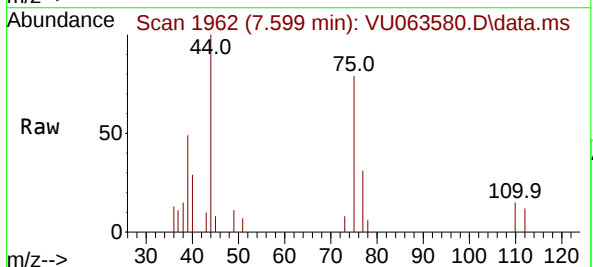
Tgt Ion: 75 Resp: 2632

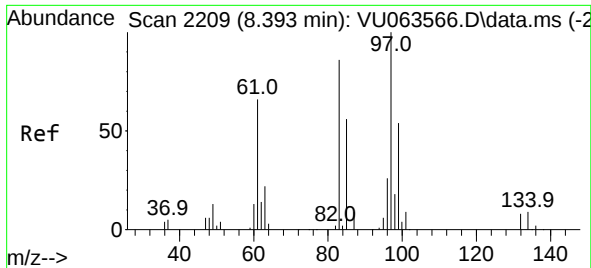
Ion Ratio Lower Upper

75 100

77 33.2 25.2 37.8

39 54.9 38.8 58.2

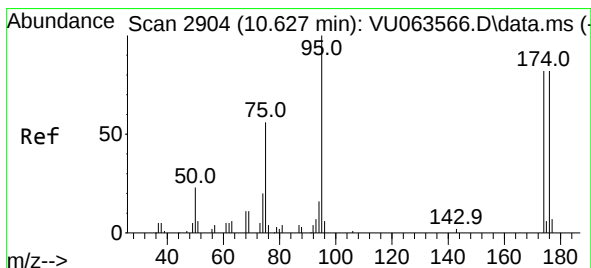
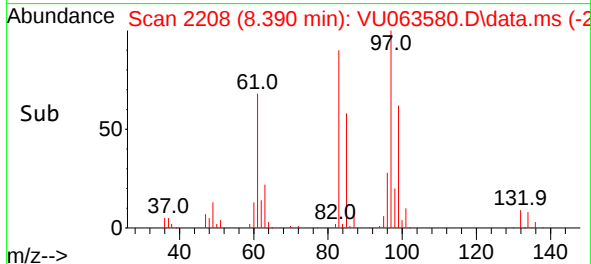
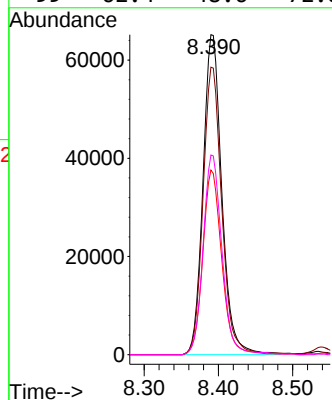
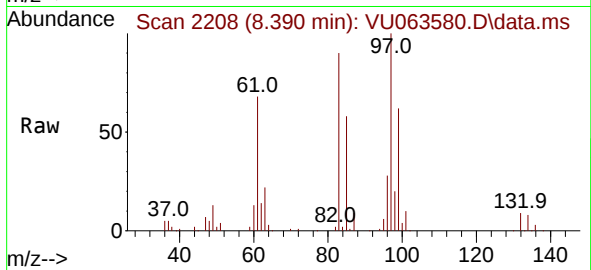




#52
1,1,2-Trichloroethane
Concen: 14.618 ug/l
RT: 8.390 min Scan# 211
Delta R.T. -0.003 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

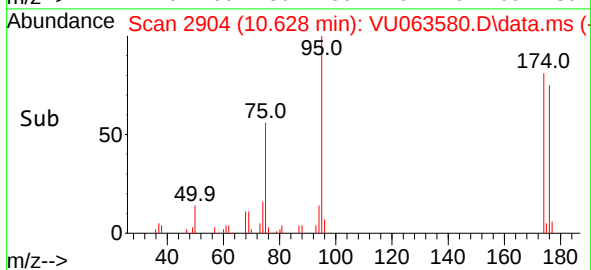
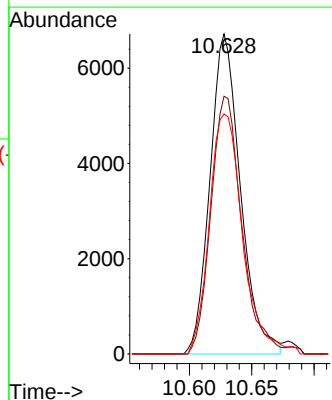
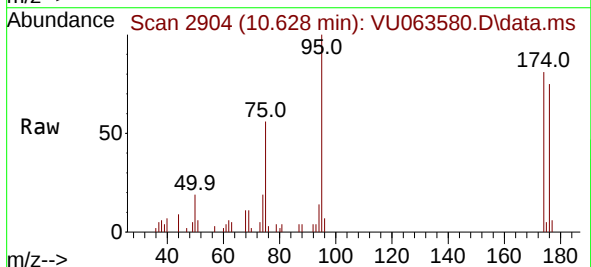
Instrument :
MSVOA_U
ClientSampleId :

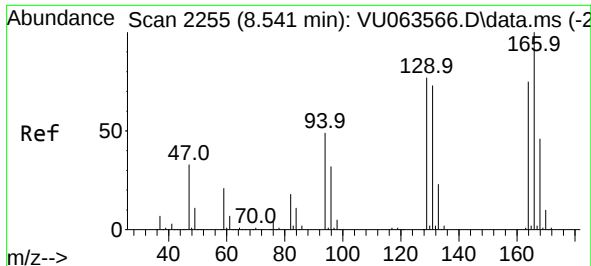
Tgt Ion:	97	Resp:	114914
Ion	Ratio	Lower	Upper
97	100		
83	89.8	68.5	102.7
85	57.7	45.0	67.6
99	62.4	48.6	72.8



#57
4-Bromofluorobenzene
Concen: 0.919 ug/l
RT: 10.628 min Scan# 2904
Delta R.T. 0.000 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

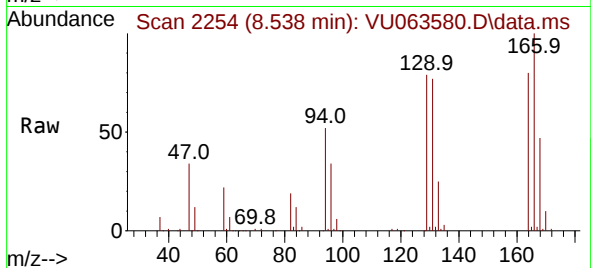
Tgt Ion:	95	Resp:	11435
Ion	Ratio	Lower	Upper
95	100		
174	81.3	64.7	97.1
176	81.8	66.2	99.4



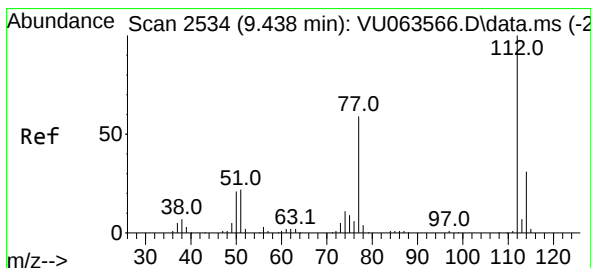
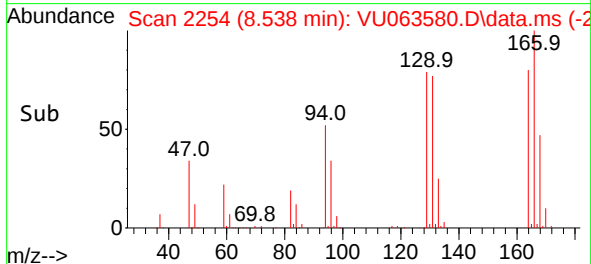
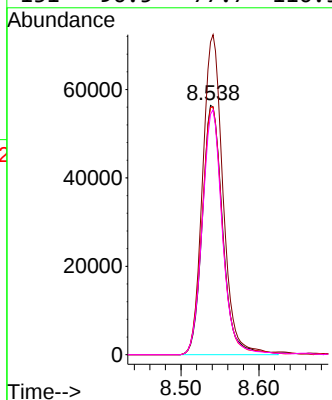


#58
Tetrachloroethene
Concen: 9.498 ug/l
RT: 8.538 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

Instrument :
MSVOA_U
ClientSampleId :

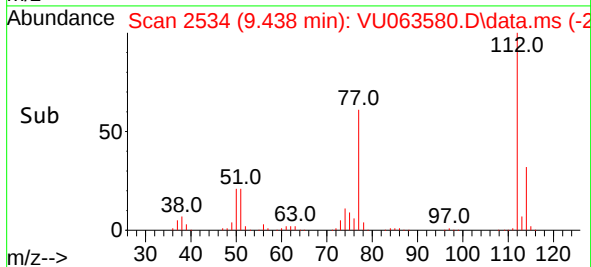
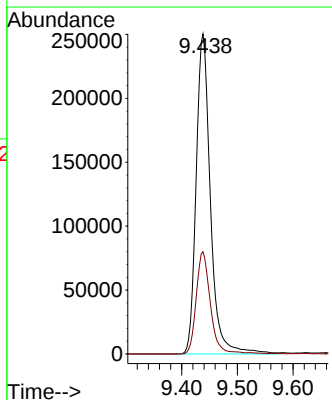
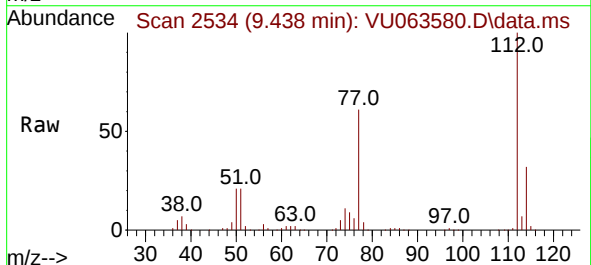


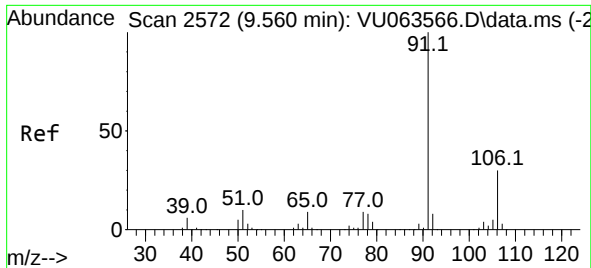
Tgt	Ion:164	Resp:	101804
Ion	Ratio	Lower	Upper
164	100		
166	125.4	106.4	159.6
129	99.1	81.4	122.2
131	96.5	77.7	116.5



#59
Chlorobenzene
Concen: 16.323 ug/l
RT: 9.438 min Scan# 2534
Delta R.T. 0.000 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

Tgt Ion:112	Resp: 446307		
Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.0	37.4

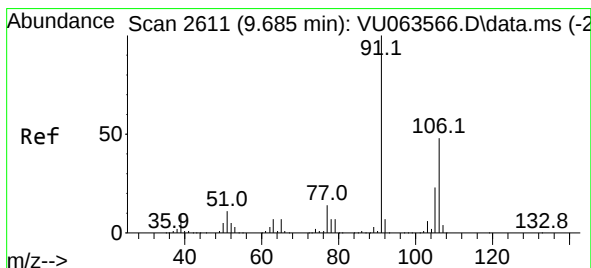
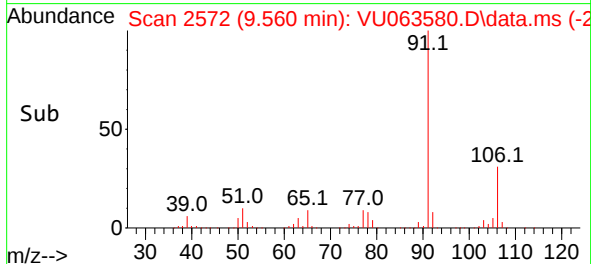
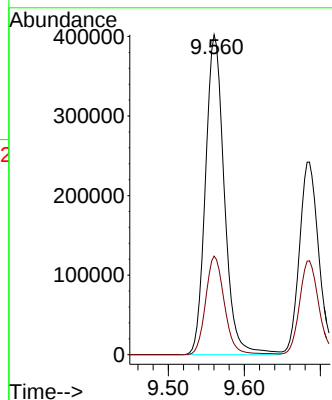
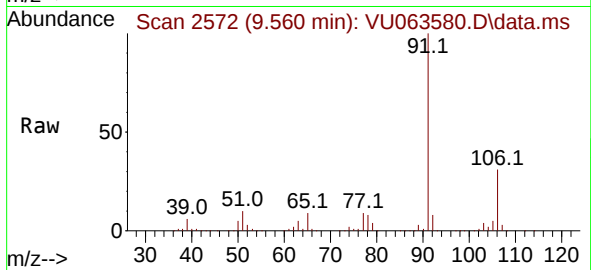




#63
Ethyl Benzene
Concen: 14.817 ug/l
RT: 9.560 min Scan# 2572
Delta R.T. 0.000 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

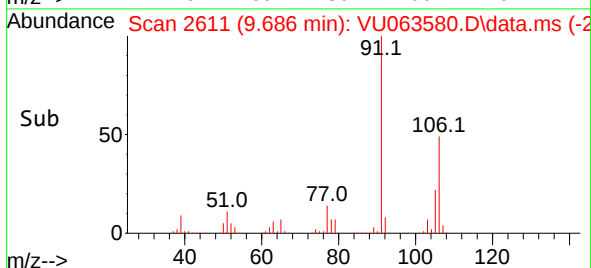
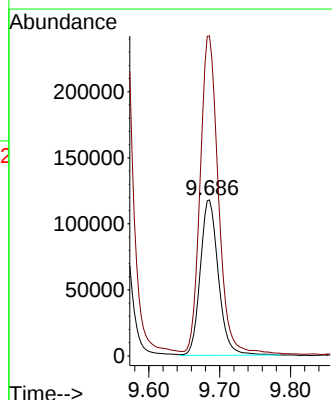
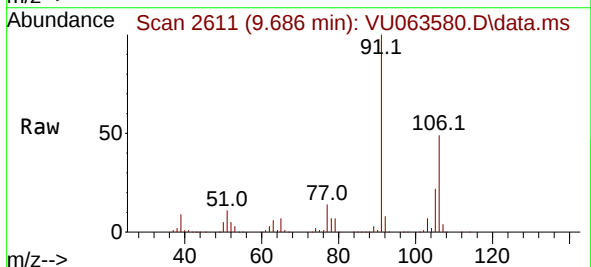
Instrument :
MSVOA_U
ClientSampleId :

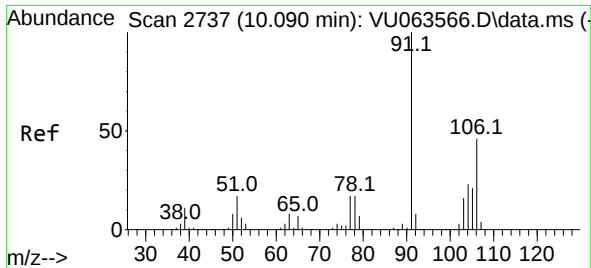
Tgt Ion: 91 Resp: 691760
Ion Ratio Lower Upper
91 100
106 30.8 23.8 35.8



#64
m/p-Xylenes
Concen: 11.658 ug/l
RT: 9.686 min Scan# 2611
Delta R.T. 0.000 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

Tgt Ion:106 Resp: 209151
Ion Ratio Lower Upper
106 100
91 208.1 167.0 250.4

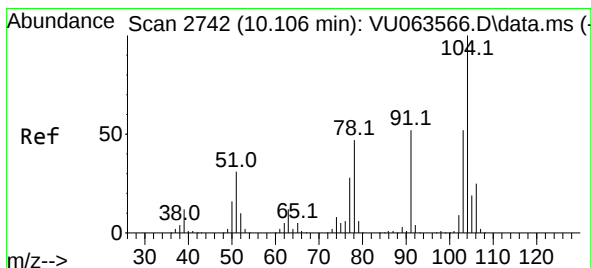
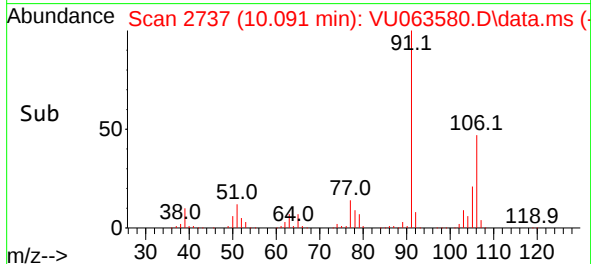
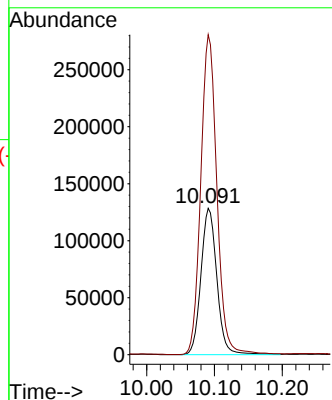
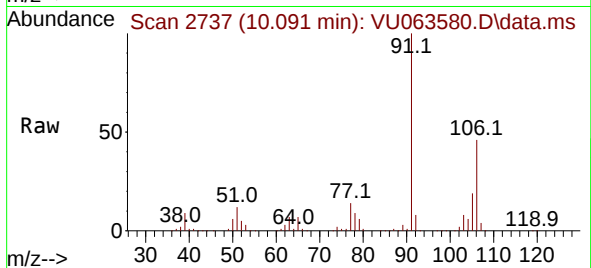




#65
o-Xylene
Concen: 11.670 ug/l
RT: 10.091 min Scan# 2737
Delta R.T. 0.000 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

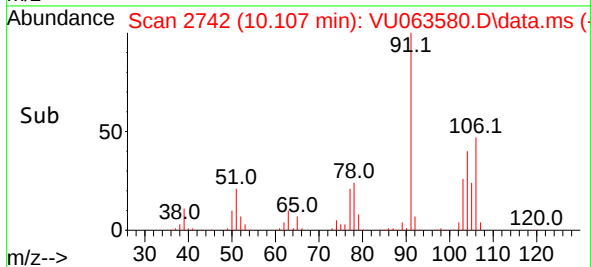
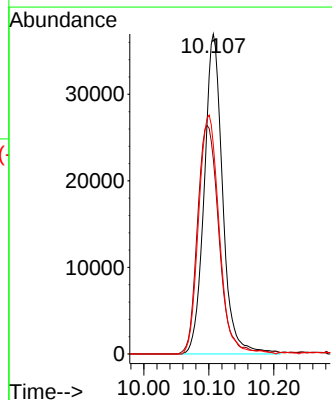
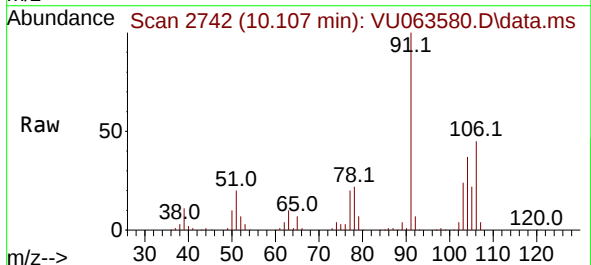
Instrument :
MSVOA_U
ClientSampleId :

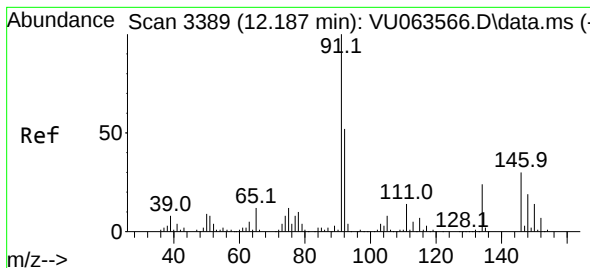
Tgt Ion:106 Resp: 209563
Ion Ratio Lower Upper
106 100
91 220.9 108.7 326.1



#66
Styrene
Concen: 2.547 ug/l
RT: 10.107 min Scan# 2742
Delta R.T. 0.000 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

Tgt Ion:104 Resp: 73010
Ion Ratio Lower Upper
104 100
78 82.7 41.2 61.8#
103 83.6 44.2 66.2#





#68

1,2-Dichlorobenzene-d4

Concen: 0.999 ug/l

RT: 12.187 min Scan# 3389

Delta R.T. 0.000 min

Lab File: VU063580.D

Acq: 15 Sep 2025 15:44

Instrument :

MSVOA_U

ClientSampleId :

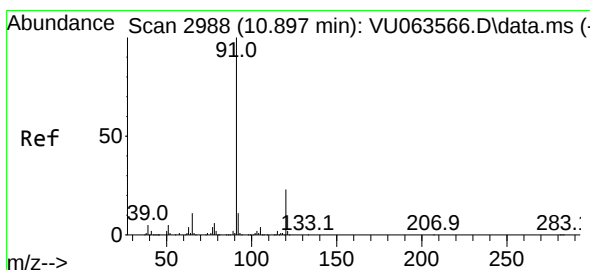
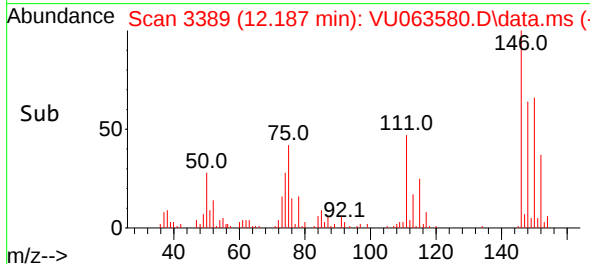
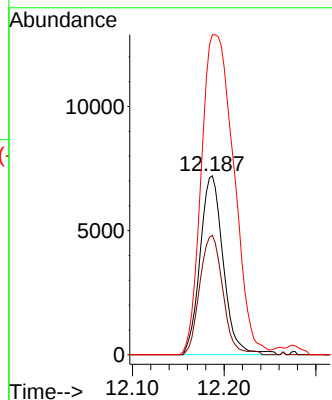
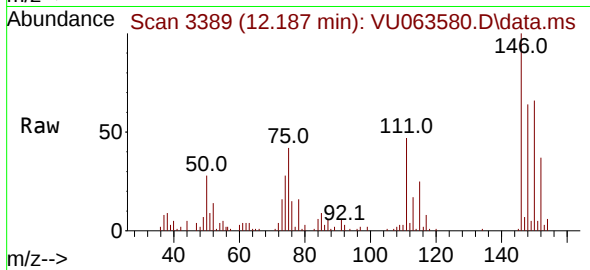
Tgt Ion:152 Resp: 12678

Ion Ratio Lower Upper

152 100

115 65.5 0.0 260.6

150 250.2 0.0 661.8



#73

n-propylbenzene

Concen: 0.358 ug/l

RT: 10.898 min Scan# 2988

Delta R.T. 0.000 min

Lab File: VU063580.D

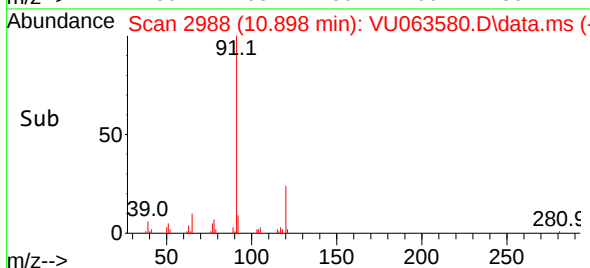
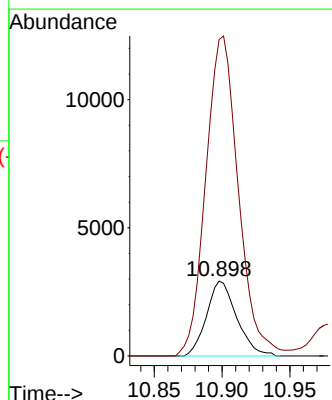
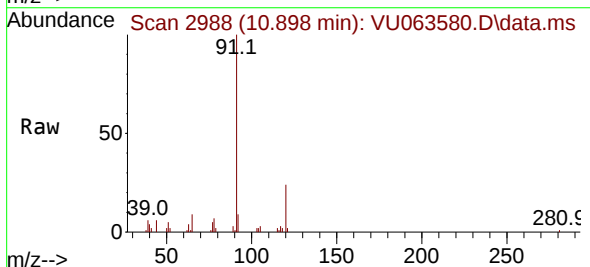
Acq: 15 Sep 2025 15:44

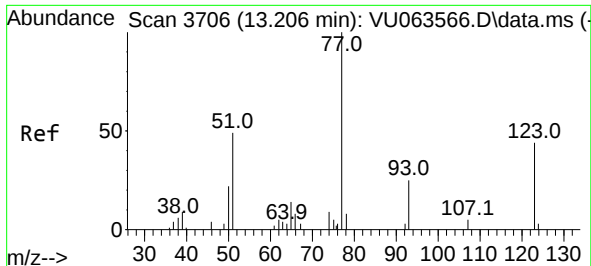
Tgt Ion:120 Resp: 4511

Ion Ratio Lower Upper

120 100

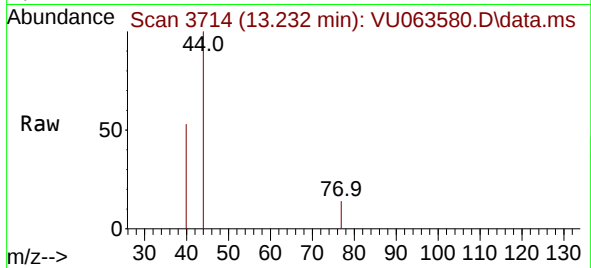
91 462.9 349.1 523.7



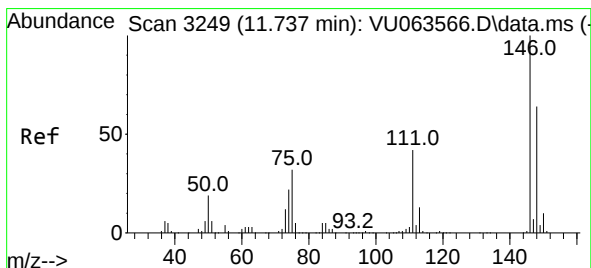
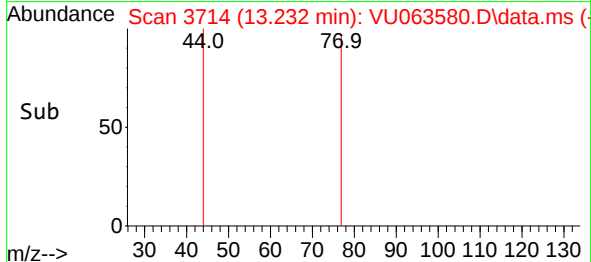
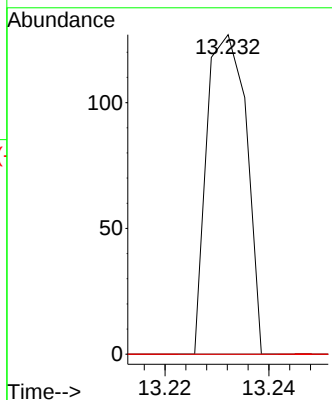


#80
Nitrobenzene
Concen: 3.617 ug/l
RT: 13.232 min Scan# 31
Delta R.T. 0.026 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

Instrument :
MSVOA_U
ClientSampleId :

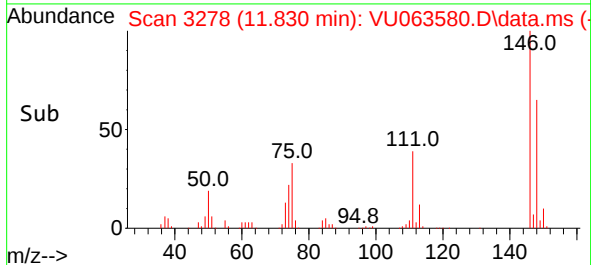
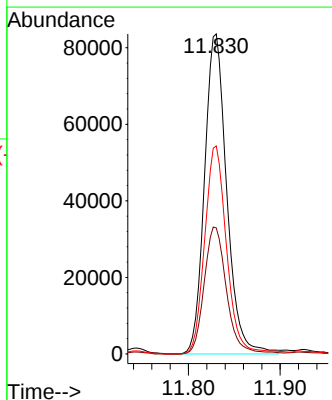
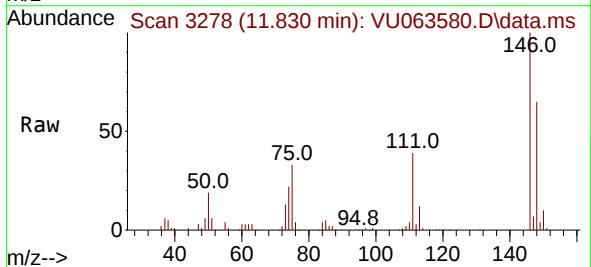


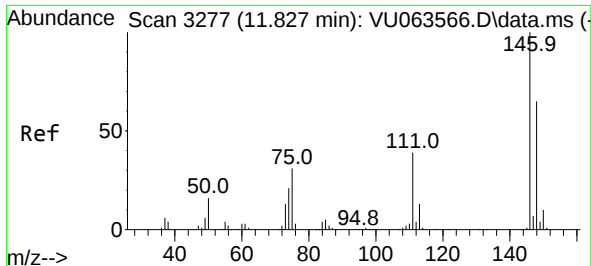
Tgt Ion: 77 Resp: 67
Ion Ratio Lower Upper
77 100
123 0.0 18.0 63.6#
65 0.0 12.8 16.4#



#82
1,3-Dichlorobenzene
Concen: 6.194 ug/l
RT: 11.830 min Scan# 3278
Delta R.T. 0.094 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

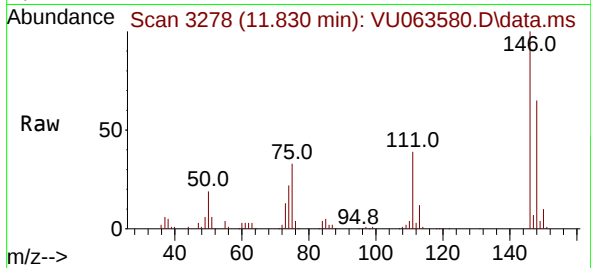
Tgt Ion:146 Resp: 140967
Ion Ratio Lower Upper
146 100
111 39.8 32.7 49.1
148 64.3 50.4 75.6



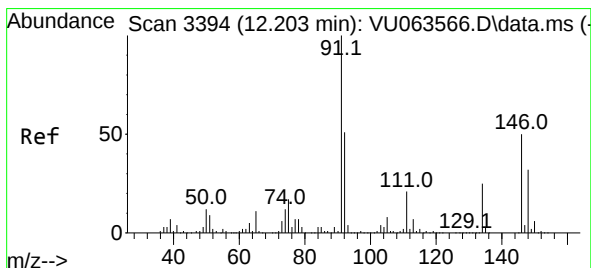
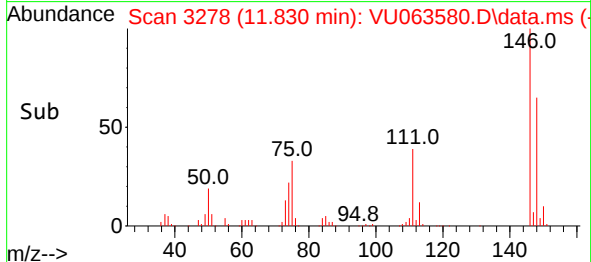
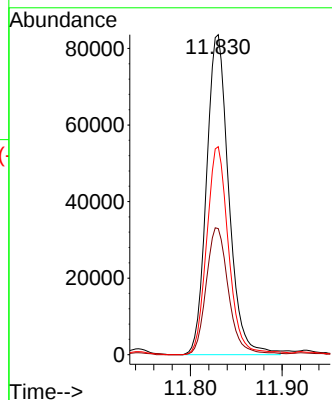


#83
1,4-Dichlorobenzene
Concen: 6.030 ug/l
RT: 11.830 min Scan# 31
Delta R.T. 0.004 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

Instrument :
MSVOA_U
ClientSampleId :

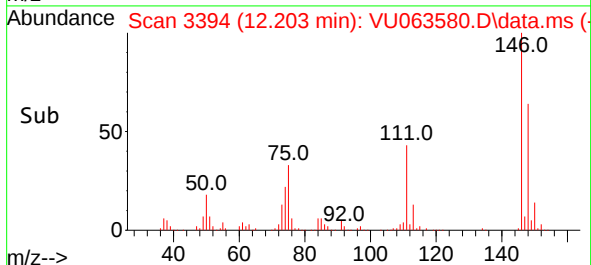
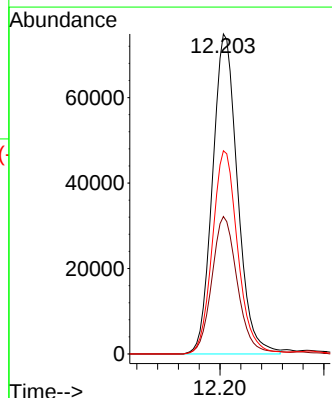
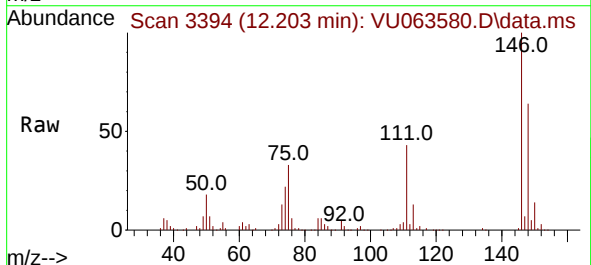


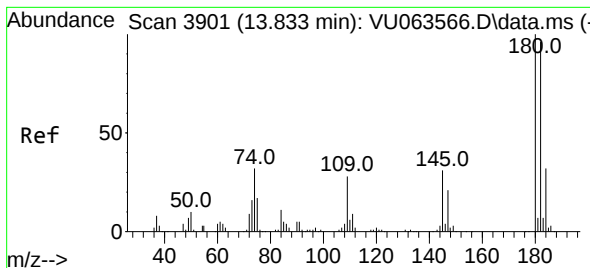
Tgt Ion:146 Resp: 140967
Ion Ratio Lower Upper
146 100
111 39.8 31.6 47.4
148 64.3 51.8 77.8



#85
1,2-Dichlorobenzene
Concen: 5.706 ug/l
RT: 12.203 min Scan# 3394
Delta R.T. 0.000 min
Lab File: VU063580.D
Acq: 15 Sep 2025 15:44

Tgt Ion:146 Resp: 125252
Ion Ratio Lower Upper
146 100
111 44.0 21.0 63.0
148 64.4 31.8 95.3





#87

1,2,4-Trichlorobenzene

Concen: 18.812 ug/l

RT: 13.833 min Scan# 3901

Delta R.T. 0.000 min

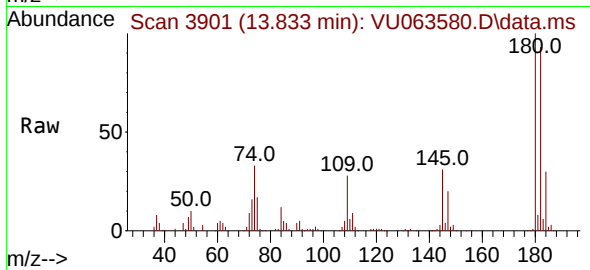
Lab File: VU063580.D

Acq: 15 Sep 2025 15:44

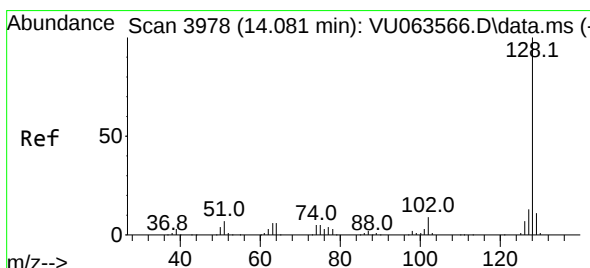
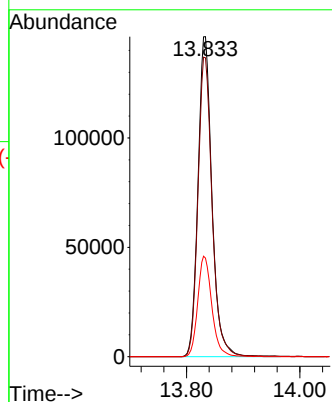
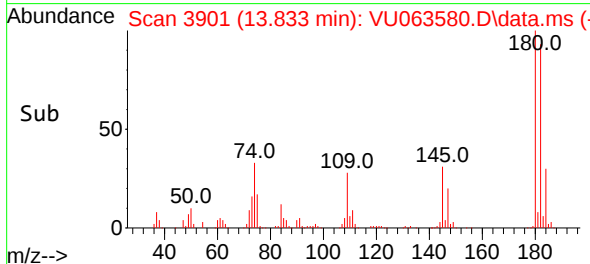
Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:	180	Resp:	250047
Ion Ratio	Lower	Upper	
180	100		
182	94.5	77.1	115.7
145	31.6	25.0	37.4



#89

Naphthalene

Concen: 0.311 ug/l

RT: 14.094 min Scan# 3982

Delta R.T. 0.013 min

Lab File: VU063580.D

Acq: 15 Sep 2025 15:44

Tgt Ion:	128	Resp:	7317
Ion Ratio	Lower	Upper	
128	100		
127	9.9	10.2	15.4#
129	7.9	8.6	13.0#

