

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042324\
 Data File : VU058780.D
 Acq On : 23 Apr 2024 12:11
 Operator : MD/SY
 Sample : P2154-10DL 2X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 XA399DL

Quant Time: Apr 24 00:36:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR042224WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Apr 24 00:34:42 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.238	114	109697	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	103590	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	46424	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.589	65	41148	4.769	ug/L	0.00
Spiked Amount	5.000	Range 40 - 130	Recovery	=	95.400%	
7) Chloroethane-d5	1.904	69	23815	3.663	ug/L	0.00
Spiked Amount	5.000	Range 65 - 130	Recovery	=	73.200%	
11) 1,1-Dichloroethene-d2	2.557	65	19255	4.432	ug/L	0.00
Spiked Amount	5.000	Range 60 - 125	Recovery	=	88.600%	
20) 2-Butanone-d5	4.618	46	76462	50.437	ug/L	0.00
Spiked Amount	50.000	Range 40 - 130	Recovery	=	100.880%	
24) Chloroform-d	5.052	84	84299	4.779	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	95.600%	
26) 1,2-Dichloroethane-d4	5.689	65	41735	4.881	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	97.600%	
32) Benzene-d6	5.717	84	164320	4.984	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	99.600%	
36) 1,2-Dichloropropane-d6	6.679	67	50951	5.181	ug/L	0.00
Spiked Amount	5.000	Range 60 - 140	Recovery	=	103.600%	
41) Toluene-d8	7.888	98	140503	4.761	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	95.200%	
43) trans-1,3-Dichloroprop...	8.174	79	17612	4.919	ug/L	0.00
Spiked Amount	5.000	Range 55 - 130	Recovery	=	98.400%	
46) 2-Hexanone-d5	8.627	63	52876	49.835	ug/L	0.00
Spiked Amount	50.000	Range 45 - 130	Recovery	=	99.680%	
56) 1,1,2,2-Tetrachloroeth...	10.749	84	30385	5.072	ug/L	0.00
Spiked Amount	5.000	Range 65 - 120	Recovery	=	101.400%	
66) 1,2-Dichlorobenzene-d4	12.187	152	42901	5.302	ug/L	0.00
Spiked Amount	5.000	Range 80 - 120	Recovery	=	106.000%	
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.595	62	27404	2.872	ug/L	99
12) 1,1-Dichloroethene	2.570	96	75375	9.435	ug/L	83
16) Methylene chloride	3.033	84	72189	8.397	ug/L	99
18) trans-1,2-Dichloroethene	3.345	96	15125	1.890	ug/L	98
22) cis-1,2-Dichloroethene	4.656	96	26469	3.011	ug/L	100
27) 1,2-Dichloroethane	5.782	62	77737	7.378	ug/L	98
29) 1,1,1-Trichloroethane	5.303	97	154771	10.011	ug/L	99
31) Carbon tetrachloride	5.515	117	52672	3.854	ug/L	100
33) Benzene	5.762	78	276127	7.705	ug/L	100
34) Trichloroethene	6.531	95	59160	6.066	ug/L	97
37) 1,2-Dichloropropane	6.778	63	62786	6.706	ug/L	99
42) Toluene	7.962	91	124279	3.355	ug/L	99
45) 1,1,2-Trichloroethane	8.389	97	51294	9.522	ug/L	98
47) Tetrachloroethene	8.544	164	66175	9.669	ug/L	96
51) Chlorobenzene	9.438	112	149098	6.607	ug/L	97
52) Ethylbenzene	9.563	91	93752	2.295	ug/L	100
53) m,p-Xylene	9.685	106	249612	16.636	ug/L	97
54) o-Xylene	10.093	106	104511	7.347	ug/L	97
55) Styrene	10.106	104	86792	3.745	ug/L	98

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Apr 24 00:34:42 2024
Response via : Initial Calibration

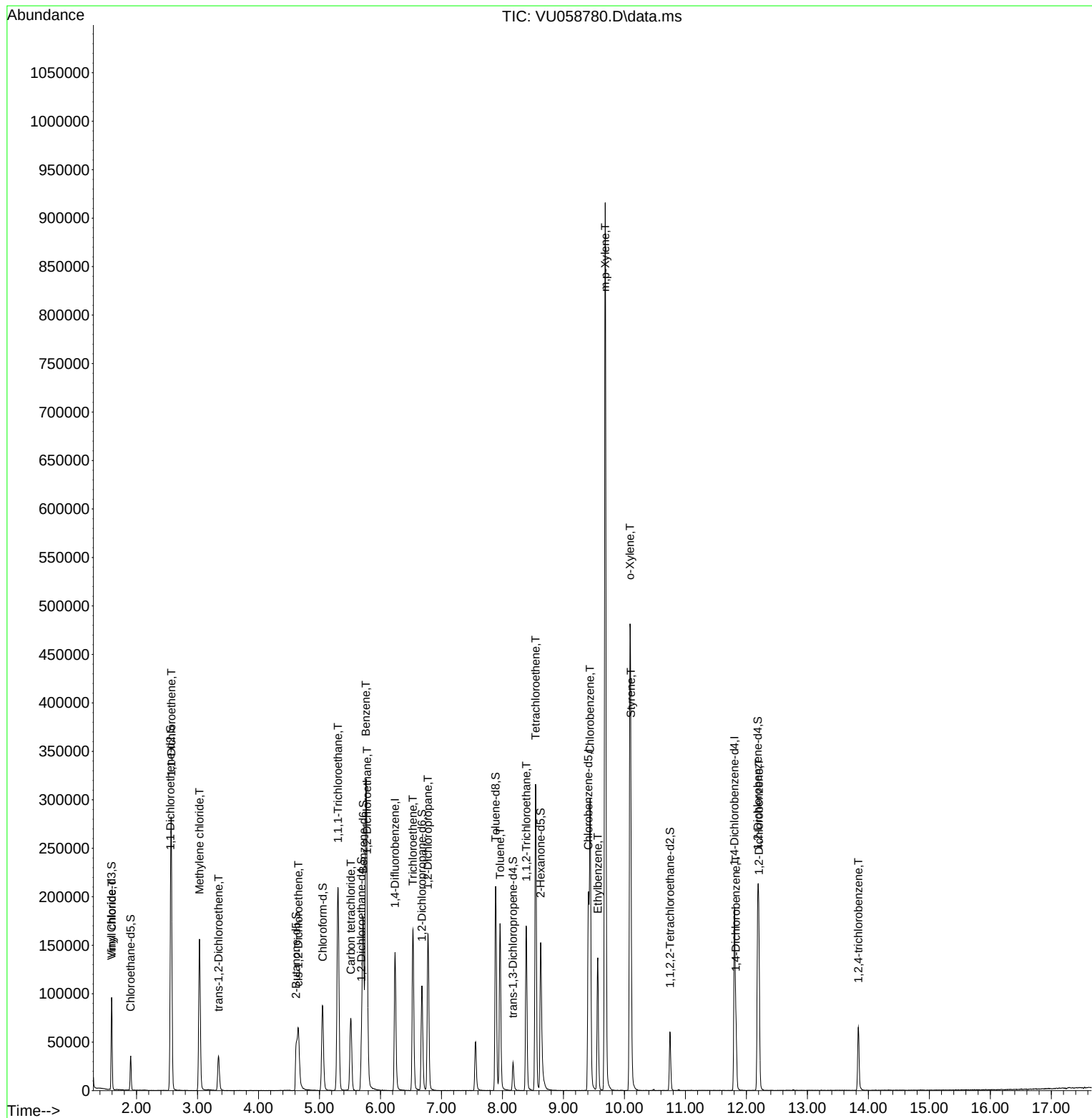
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.830	146	22480	1.451	ug/L	99
67) 1,2-Dichlorobenzene	12.206	146	56548	4.115	ug/L	97
70) 1,2,4-trichlorobenzene	13.836	180	21439	2.716	ug/L	99

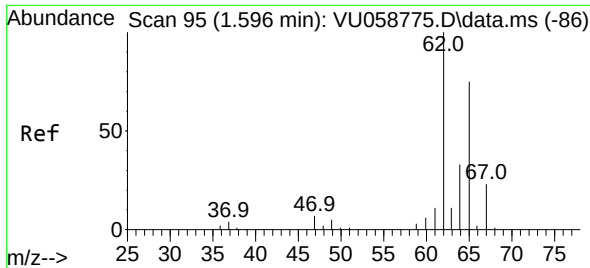
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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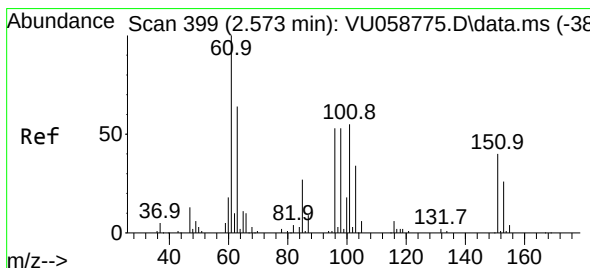
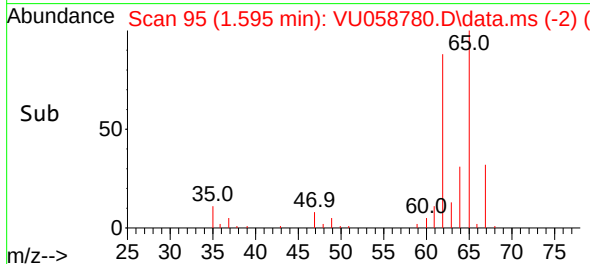
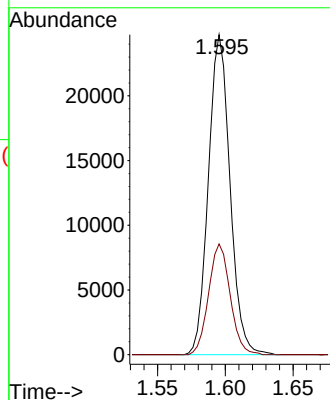
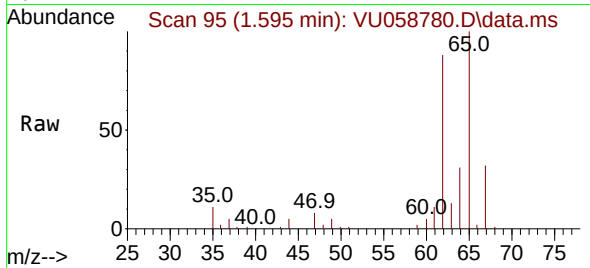




#5
Vinyl chloride
Concen: 2.872 ug/L
RT: 1.595 min Scan# 91
Delta R.T. -0.000 min
Lab File: VU058780.D
Acq: 23 Apr 2024 12:11

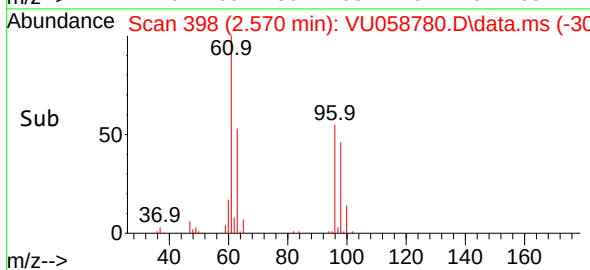
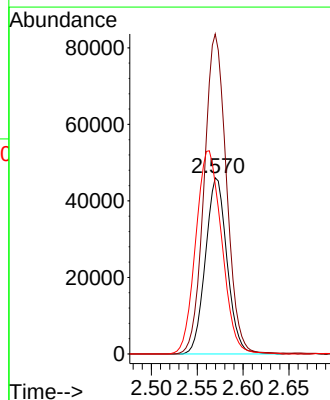
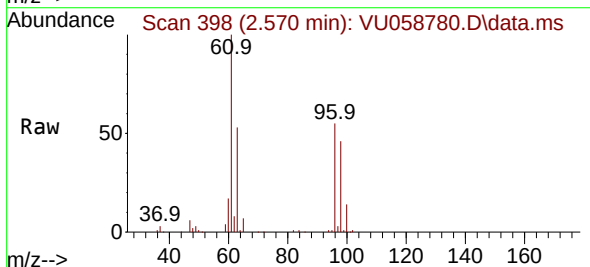
Instrument :
MSVOA_U
ClientSampleId :
XA399DL

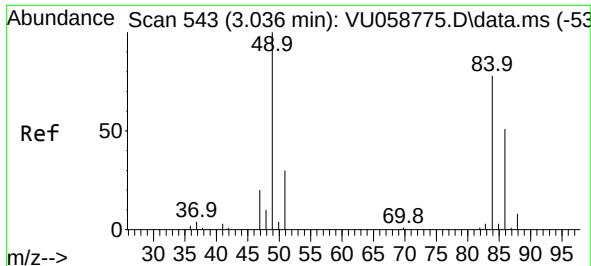
Tgt Ion: 62 Resp: 27404
Ion Ratio Lower Upper
62 100
64 34.6 23.8 44.2



#12
1,1-Dichloroethene
Concen: 9.435 ug/L
RT: 2.570 min Scan# 398
Delta R.T. -0.003 min
Lab File: VU058780.D
Acq: 23 Apr 2024 12:11

Tgt Ion: 96 Resp: 75375
Ion Ratio Lower Upper
96 100
61 181.7 135.3 251.3
63 96.3 91.9 170.7

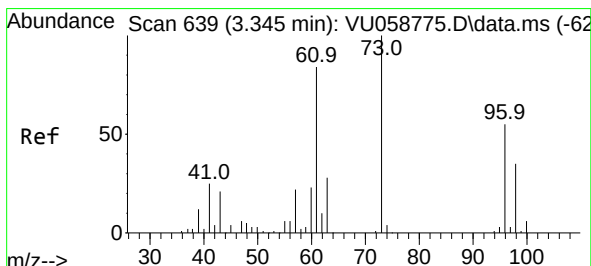
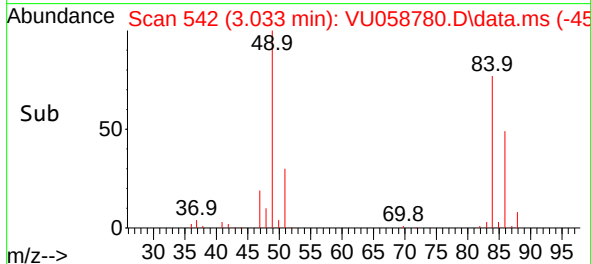
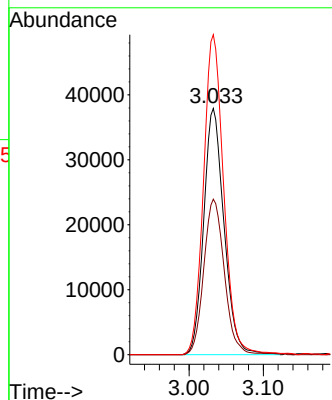
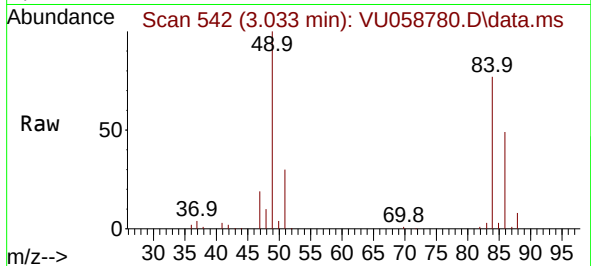




#16
Methylene chloride
Concen: 8.397 ug/L
RT: 3.033 min Scan# 543
Delta R.T. -0.003 min
Lab File: VU058780.D
Acq: 23 Apr 2024 12:11

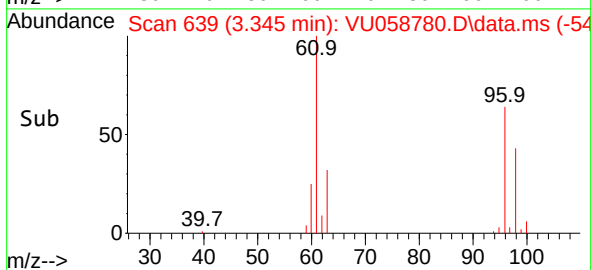
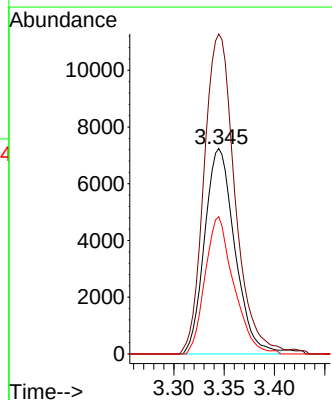
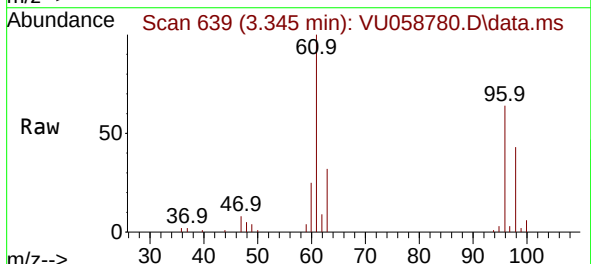
Instrument :
MSVOA_U
ClientSampleId :
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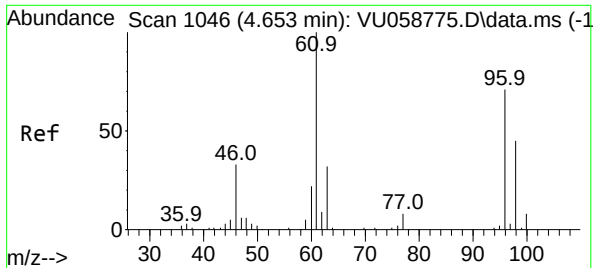
Tgt Ion: 84 Resp: 72189
Ion Ratio Lower Upper
84 100
86 63.2 45.0 83.6
49 129.9 91.6 170.2



#18
trans-1,2-Dichloroethene
Concen: 1.890 ug/L
RT: 3.345 min Scan# 639
Delta R.T. -0.000 min
Lab File: VU058780.D
Acq: 23 Apr 2024 12:11

Tgt Ion: 96 Resp: 15125
Ion Ratio Lower Upper
96 100
61 155.8 108.6 201.8
98 66.8 44.4 82.4

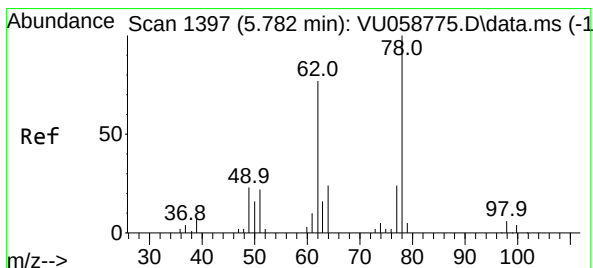
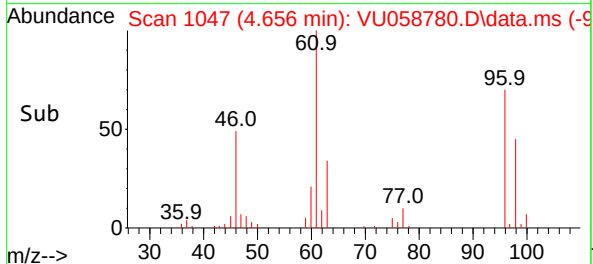
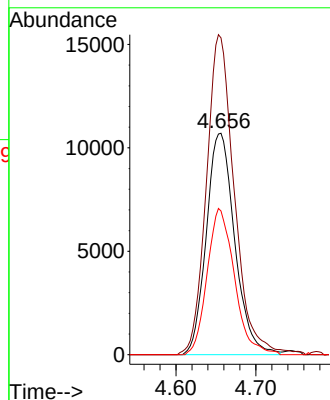
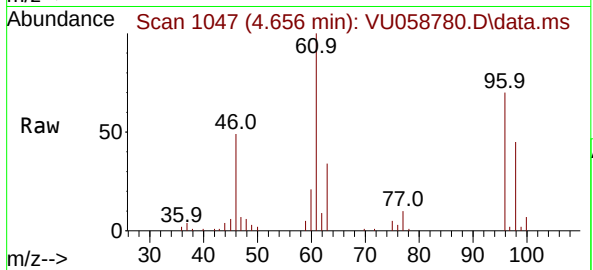




#22
 cis-1,2-Dichloroethene
 Concen: 3.011 ug/L
 RT: 4.656 min Scan# 1047
 Delta R.T. 0.003 min
 Lab File: VU058780.D
 Acq: 23 Apr 2024 12:11

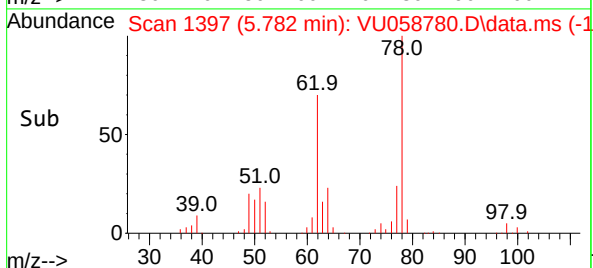
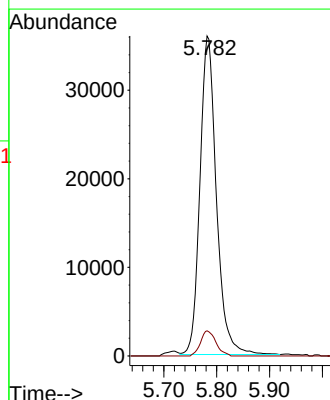
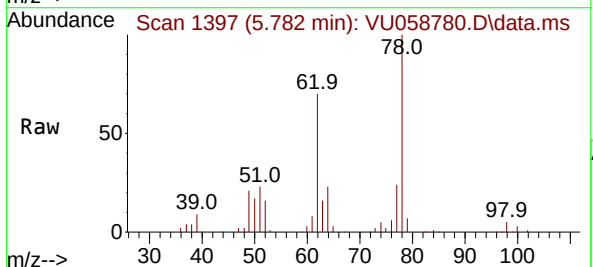
Instrument :
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 ClientSampleId :
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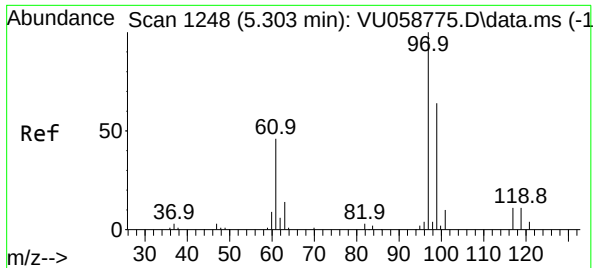
Tgt Ion: 96 Resp: 26469
 Ion Ratio Lower Upper
 96 100
 61 143.1 100.4 186.4
 98 64.9 45.1 83.7



#27
 1,2-Dichloroethane
 Concen: 7.378 ug/L
 RT: 5.782 min Scan# 1397
 Delta R.T. -0.000 min
 Lab File: VU058780.D
 Acq: 23 Apr 2024 12:11

Tgt Ion: 62 Resp: 77737
 Ion Ratio Lower Upper
 62 100
 98 7.9 6.7 10.1

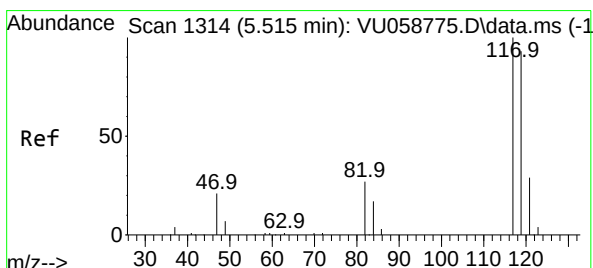
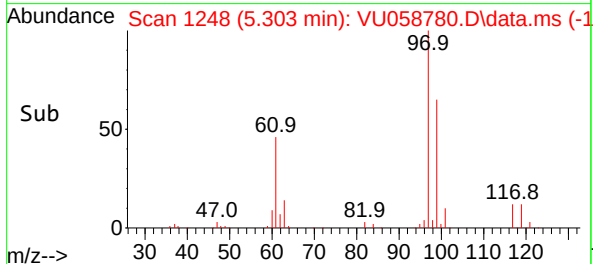
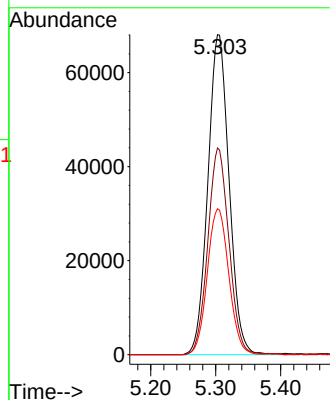
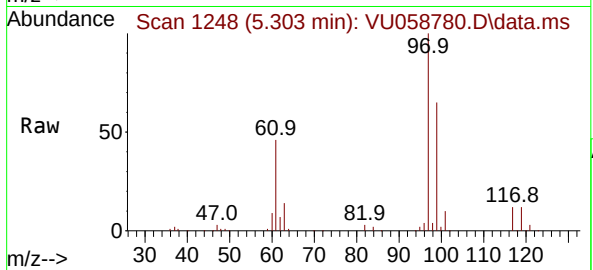




#29
1,1,1-Trichloroethane
Concen: 10.011 ug/L
RT: 5.303 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU058780.D
Acq: 23 Apr 2024 12:11

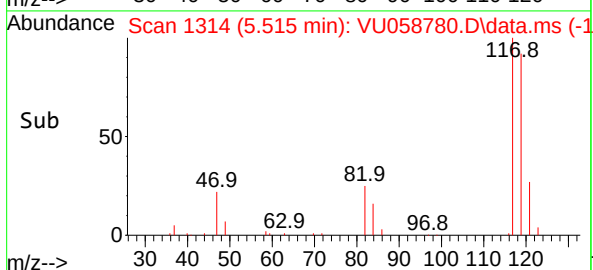
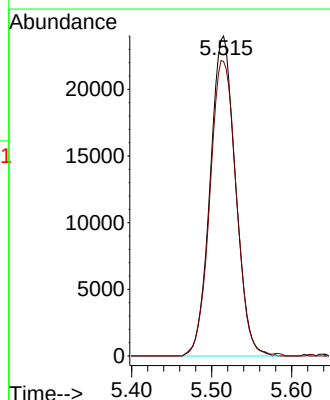
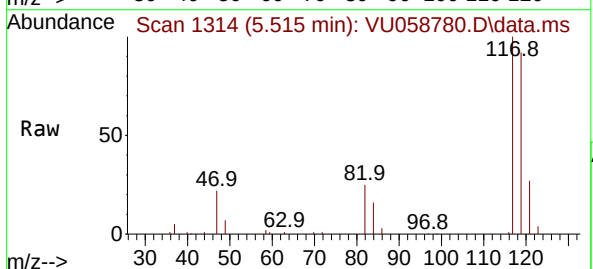
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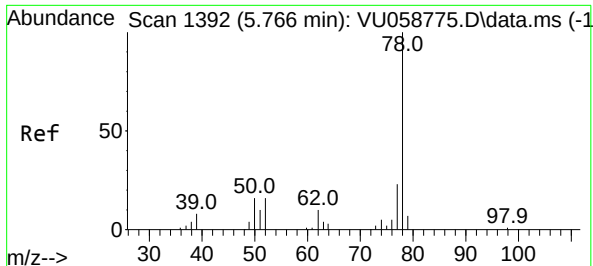
Tgt Ion: 97 Resp: 154771
Ion Ratio Lower Upper
97 100
99 64.2 50.5 75.7
61 46.2 37.3 55.9



#31
Carbon tetrachloride
Concen: 3.854 ug/L
RT: 5.515 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VU058780.D
Acq: 23 Apr 2024 12:11

Tgt Ion: 117 Resp: 52672
Ion Ratio Lower Upper
117 100
119 95.8 77.0 115.4

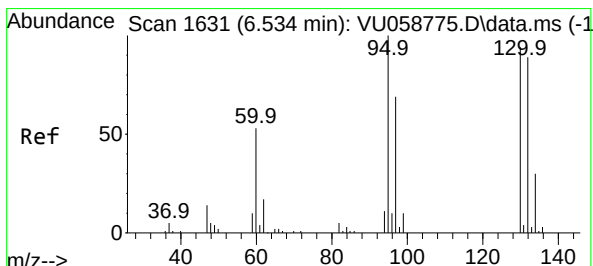
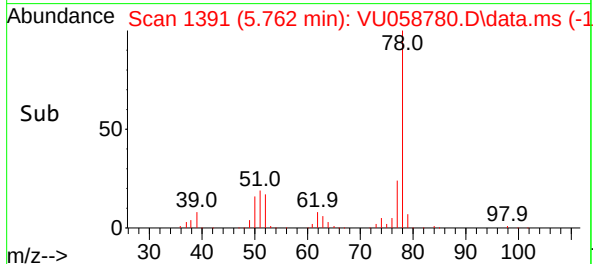
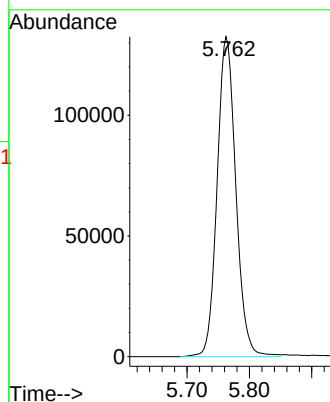
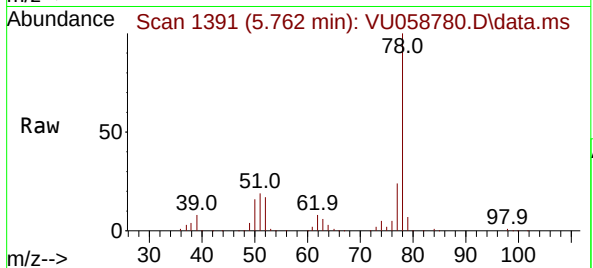




#33
Benzene
Concen: 7.705 ug/L
RT: 5.762 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU058780.D
Acq: 23 Apr 2024 12:11

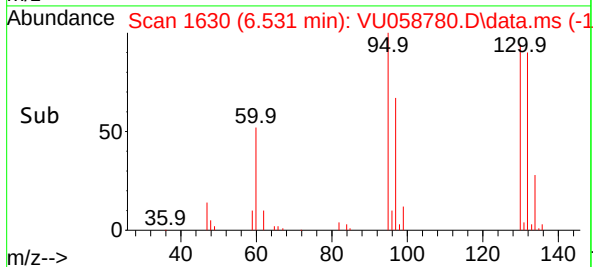
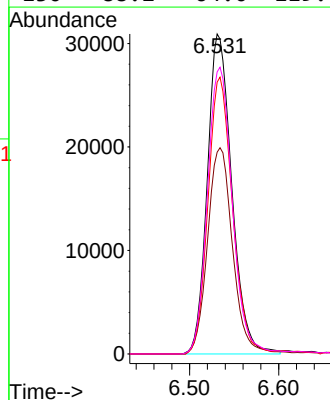
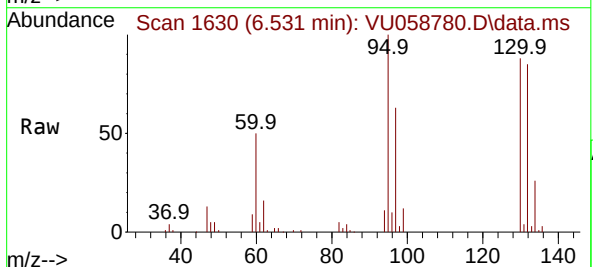
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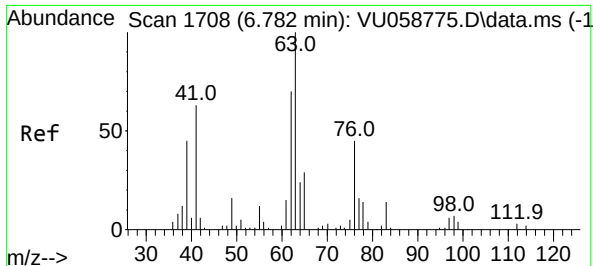
Tgt Ion: 78 Resp: 276127



#34
Trichloroethene
Concen: 6.066 ug/L
RT: 6.531 min Scan# 1630
Delta R.T. -0.003 min
Lab File: VU058780.D
Acq: 23 Apr 2024 12:11

Tgt Ion: 95 Resp: 59160
Ion Ratio Lower Upper
95 100
97 63.1 44.4 82.4
132 85.0 61.6 114.4
130 88.2 64.0 119.0





#37

1,2-Dichloropropane

Concen: 6.706 ug/L

RT: 6.778 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU058780.D

Acq: 23 Apr 2024 12:11

Instrument :

MSVOA_U

ClientSampleId :

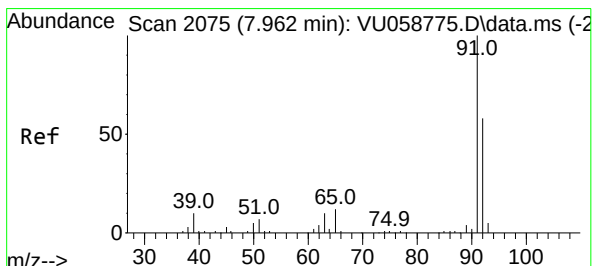
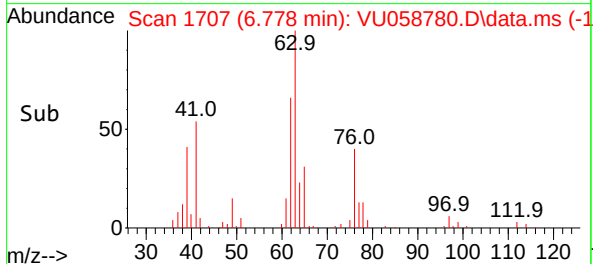
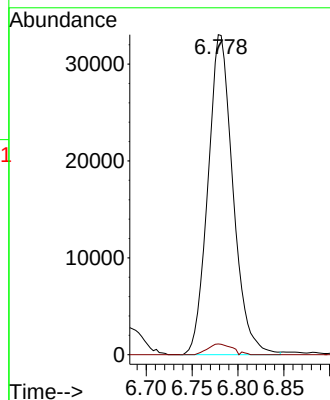
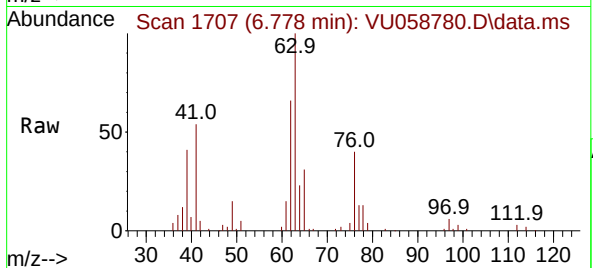
XA399DL

Tgt Ion: 63 Resp: 62786

Ion Ratio Lower Upper

63 100

112 3.3 2.8 4.2



#42

Toluene

Concen: 3.355 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. -0.000 min

Lab File: VU058780.D

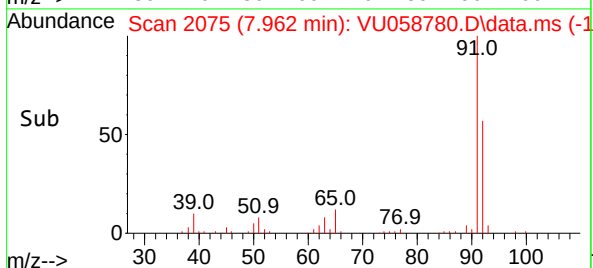
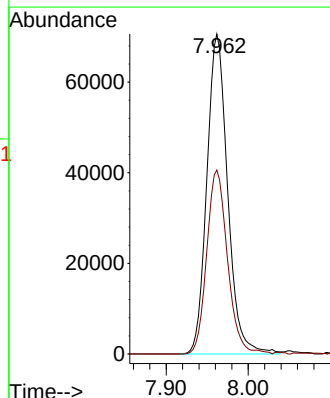
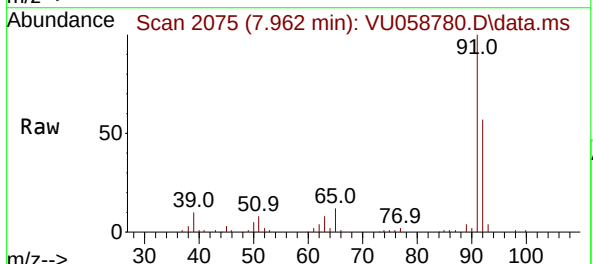
Acq: 23 Apr 2024 12:11

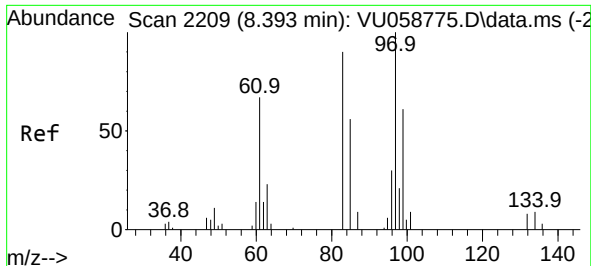
Tgt Ion: 91 Resp: 124279

Ion Ratio Lower Upper

91 100

92 57.5 40.0 74.2





#45

1,1,2-Trichloroethane

Concen: 9.522 ug/L

RT: 8.389 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU058780.D

Acq: 23 Apr 2024 12:11

Instrument :

MSVOA_U

ClientSampleId :

XA399DL

Tgt Ion: 97 Resp: 51294

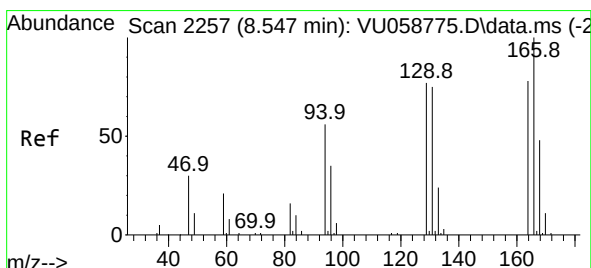
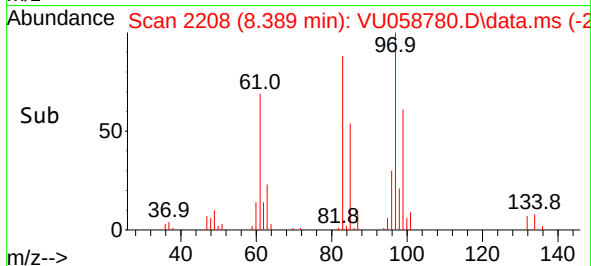
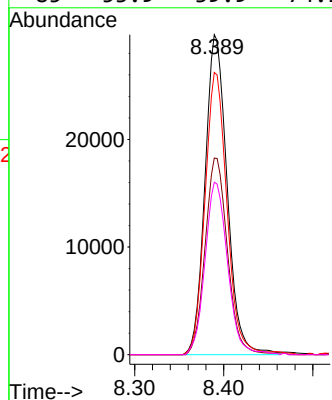
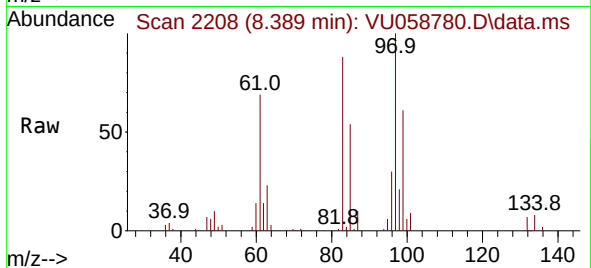
Ion Ratio Lower Upper

97 100

99 61.4 43.7 81.1

83 88.2 62.9 116.9

85 53.9 39.9 74.1



#47

Tetrachloroethene

Concen: 9.669 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. -0.003 min

Lab File: VU058780.D

Acq: 23 Apr 2024 12:11

Tgt Ion:164 Resp: 66175

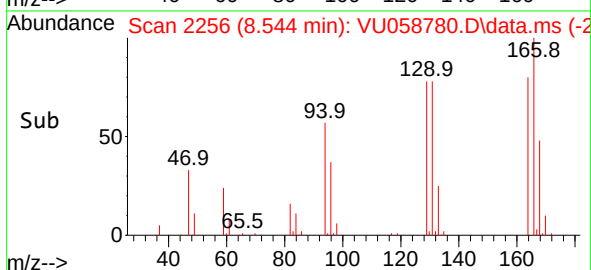
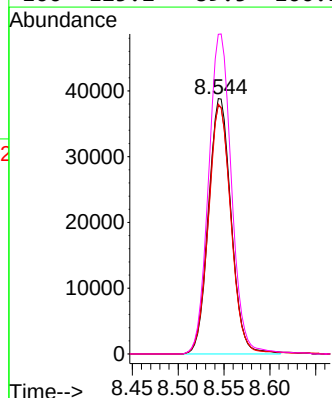
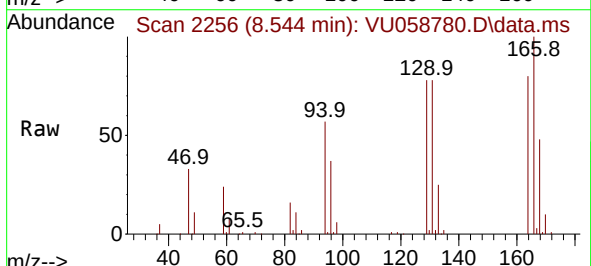
Ion Ratio Lower Upper

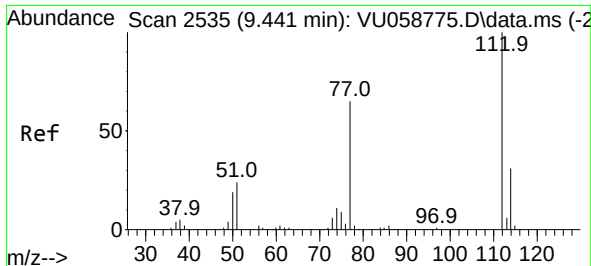
164 100

129 97.3 71.5 132.9

131 97.9 65.0 120.6

166 125.2 89.5 166.1

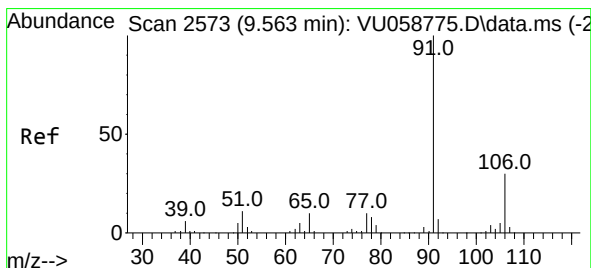
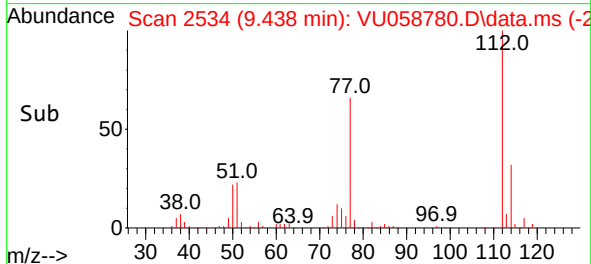
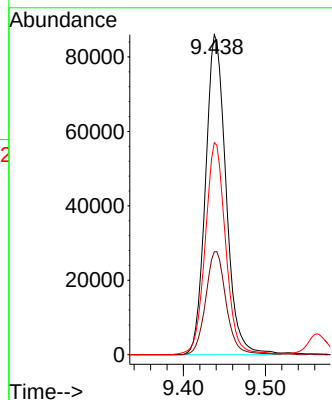
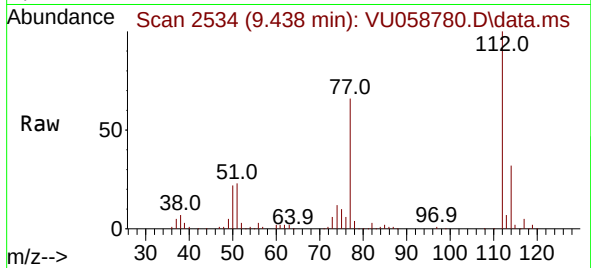




#51
Chlorobenzene
Concen: 6.607 ug/L
RT: 9.438 min Scan# 2534
Delta R.T. -0.003 min
Lab File: VU058780.D
Acq: 23 Apr 2024 12:11

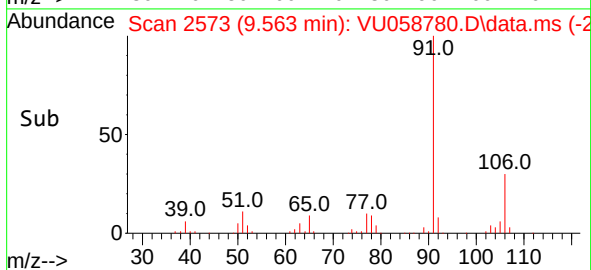
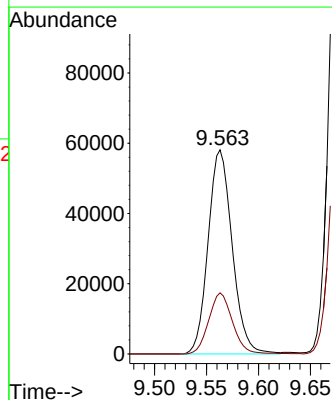
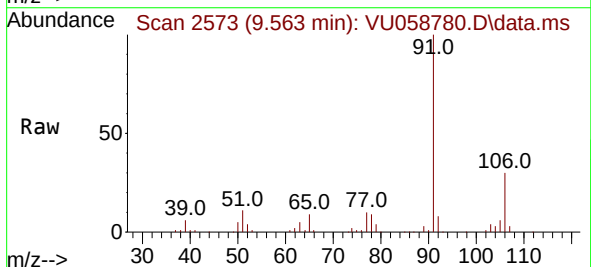
Instrument :
MSVOA_U
ClientSampleId :
XA399DL

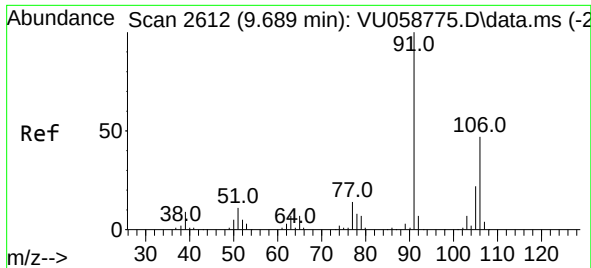
Tgt Ion:112 Resp: 149098
Ion Ratio Lower Upper
112 100
114 32.2 21.7 40.3
77 66.3 50.5 75.7



#52
Ethylbenzene
Concen: 2.295 ug/L
RT: 9.563 min Scan# 2573
Delta R.T. -0.000 min
Lab File: VU058780.D
Acq: 23 Apr 2024 12:11

Tgt Ion: 91 Resp: 93752
Ion Ratio Lower Upper
91 100
106 29.9 20.9 38.9

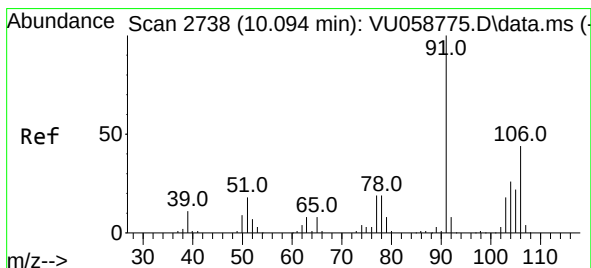
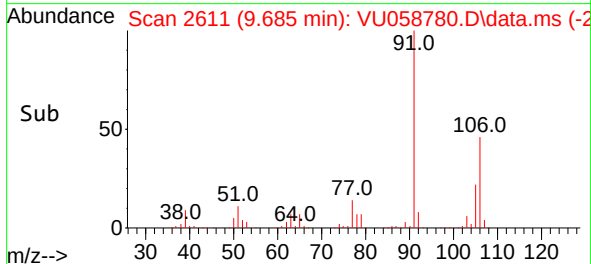
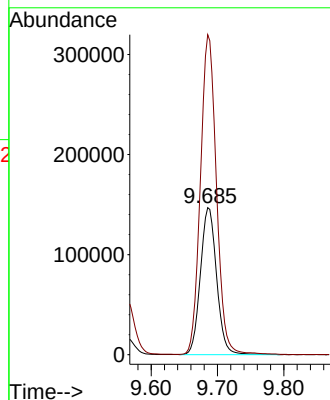
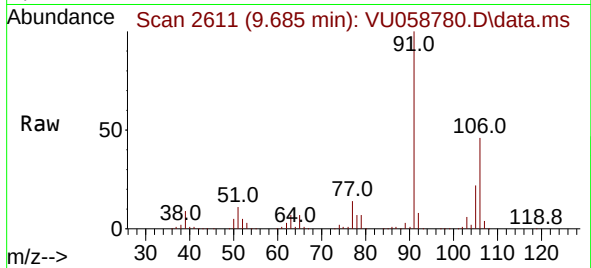




#53
m,p-Xylene
Concen: 16.636 ug/L
RT: 9.685 min Scan# 2612
Delta R.T. -0.003 min
Lab File: VU058780.D
Acq: 23 Apr 2024 12:11

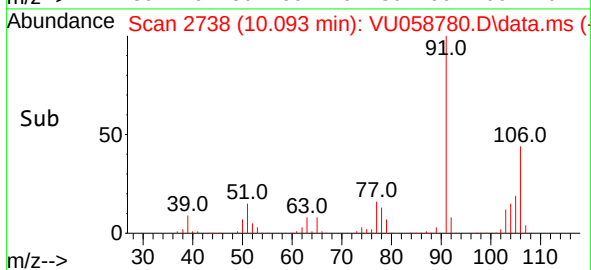
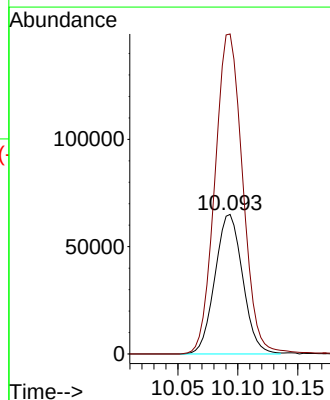
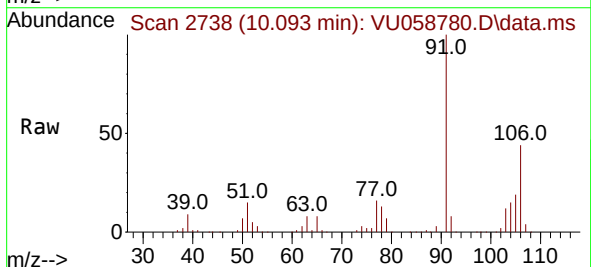
Instrument :
MSVOA_U
ClientSampleId :
XA399DL

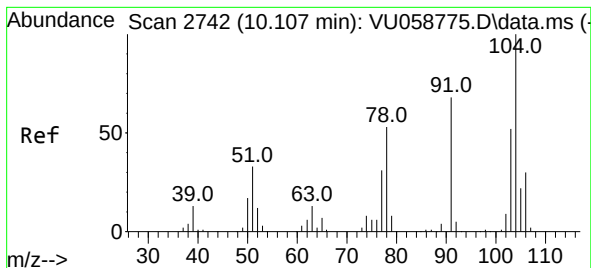
Tgt Ion:106 Resp: 249612
Ion Ratio Lower Upper
106 100
91 217.5 155.1 288.1



#54
o-Xylene
Concen: 7.347 ug/L
RT: 10.093 min Scan# 2738
Delta R.T. -0.000 min
Lab File: VU058780.D
Acq: 23 Apr 2024 12:11

Tgt Ion:106 Resp: 104511
Ion Ratio Lower Upper
106 100
91 229.4 163.7 304.1





#55

Styrene

Concen: 3.745 ug/L

RT: 10.106 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU058780.D

Acq: 23 Apr 2024 12:11

Instrument :

MSVOA_U

ClientSampleId :

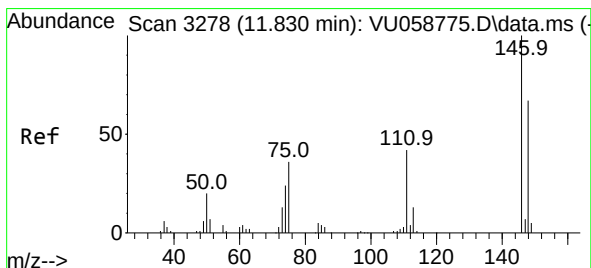
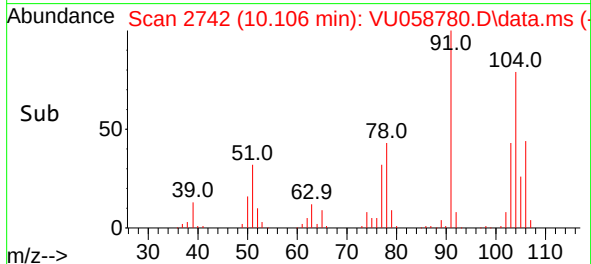
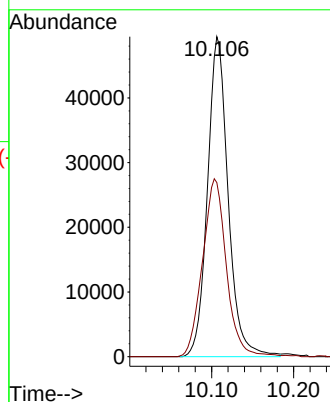
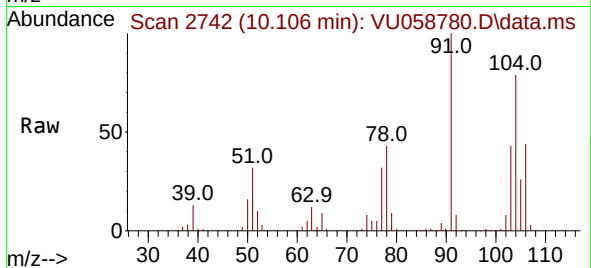
XA399DL

Tgt Ion:104 Resp: 86792

Ion Ratio Lower Upper

104 100

78 54.4 37.1 68.9



#65

1,4-Dichlorobenzene

Concen: 1.451 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. -0.000 min

Lab File: VU058780.D

Acq: 23 Apr 2024 12:11

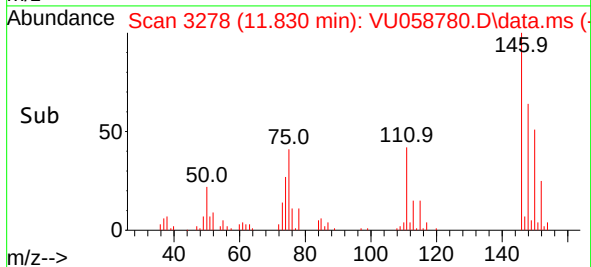
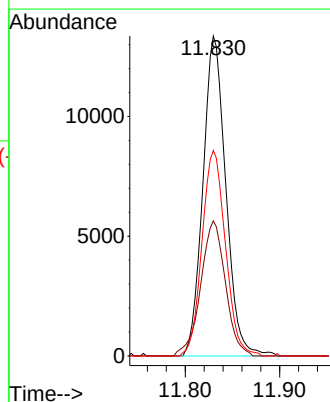
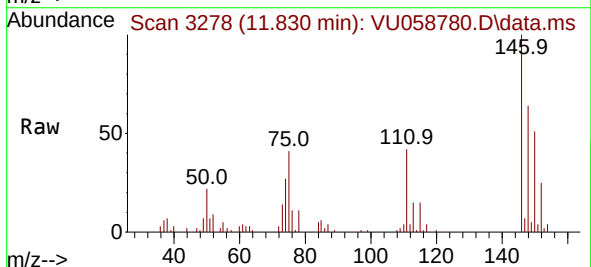
Tgt Ion:146 Resp: 22480

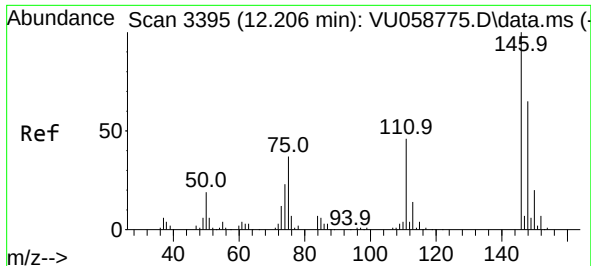
Ion Ratio Lower Upper

146 100

111 42.2 29.3 54.3

148 64.2 44.4 82.4





#67

1,2-Dichlorobenzene

Concen: 4.115 ug/L

RT: 12.206 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU058780.D

Acq: 23 Apr 2024 12:11

Instrument :

MSVOA_U

ClientSampleId :

XA399DL

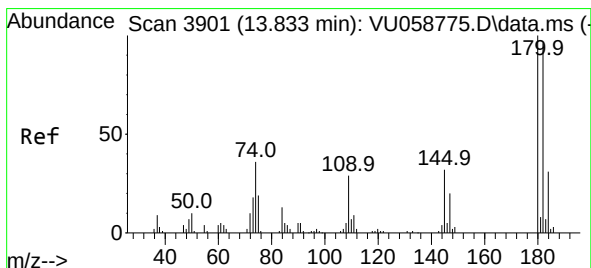
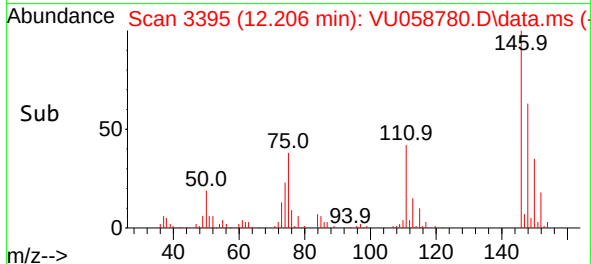
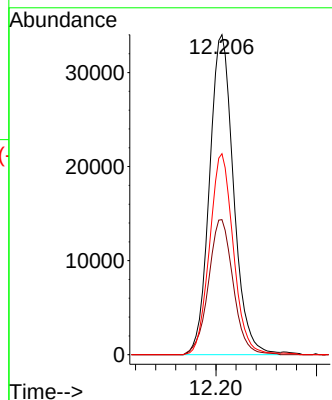
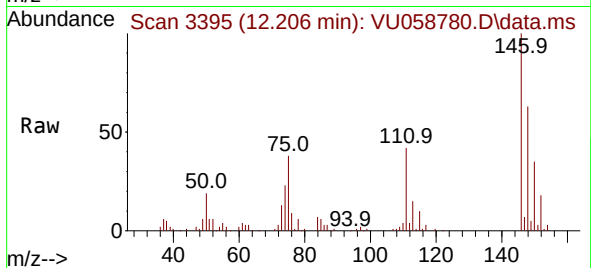
Tgt Ion:146 Resp: 56548

Ion Ratio Lower Upper

146 100

111 42.2 35.7 53.5

148 62.8 51.6 77.4



#70

1,2,4-trichlorobenzene

Concen: 2.716 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.003 min

Lab File: VU058780.D

Acq: 23 Apr 2024 12:11

Tgt Ion:180 Resp: 21439

Ion Ratio Lower Upper

180 100

182 95.1 75.9 113.9

145 31.1 25.7 38.5

