

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU090123\
 Data File : VU055070.D
 Acq On : 02 Sep 2023 03:33
 Operator : MD/SY
 Sample : 04250-07
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BH4A6

Quant Time: Sep 02 04:12:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR090123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Sep 02 00:23:04 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	182731	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	181663	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.811	152	97308	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	42495	4.962	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	99.200%
7) Chloroethane-d5	1.911	69	48580	4.900	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.000%
11) 1,1-Dichloroethene-d2	2.563	65	24665	5.055	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	101.000%
20) 2-Butanone-d5	4.628	46	135404	54.482	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.960%
24) Chloroform-d	5.059	84	117801	5.184	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.600%
26) 1,2-Dichloroethane-d4	5.698	65	58797	5.171	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.400%
32) Benzene-d6	5.724	84	231755	5.168	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.400%
36) 1,2-Dichloropropane-d6	6.689	67	74387	5.216	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.400%
41) Toluene-d8	7.894	98	207817	5.031	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.600%
43) trans-1,3-Dichloroprop...	8.181	79	18023	4.589	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.800%
46) 2-Hexanone-d5	8.631	63	78383	49.156	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.320%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	51314	5.116	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.400%
66) 1,2-Dichlorobenzene-d4	12.190	152	73385	5.167	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.400%
Target Compounds						
2) Dichlorodifluoromethane	1.383	85	1832	0.173	ug/L	91
5) Vinyl chloride	1.602	62	13058	1.145	ug/L	93
10) 1,1,2-Trichloro-1,2,2-...	2.580	101	2428	0.252	ug/L #	74
12) 1,1-Dichloroethene	2.576	96	118951	14.080	ug/L #	81
17) Methyl tert-butyl Ether	3.361	73	57534	2.597	ug/L	99
18) trans-1,2-Dichloroethene	3.351	96	7946	0.927	ug/L	89
19) 1,1-Dichloroethane	3.866	63	60987	3.292	ug/L	96
22) cis-1,2-Dichloroethene	4.660	96	3514952	335.015	ug/L	97
25) Chloroform	5.084	83	40753	2.112	ug/L	100
27) 1,2-Dichloroethane	5.792	62	13897	1.180	ug/L	98
29) 1,1,1-Trichloroethane	5.316	97	12647	0.805	ug/L #	76
33) Benzene	5.776	78	4898	0.127	ug/L	100
34) Trichloroethene	6.538	95	3108647	289.305	ug/L	97
45) 1,1,2-Trichloroethane	8.399	97	706	0.100	ug/L	84
47) Tetrachloroethene	8.550	164	22123	2.979	ug/L	99
51) Chlorobenzene	9.444	112	6189	0.227	ug/L #	66
64) 1,3-Dichlorobenzene	11.750	146	4727	0.217	ug/L	83
65) 1,4-Dichlorobenzene	11.836	146	11044	0.509	ug/L	93
70) 1,2,4-trichlorobenzene	13.840	180	24116	1.562	ug/L	95

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Response via : Initial Calibration

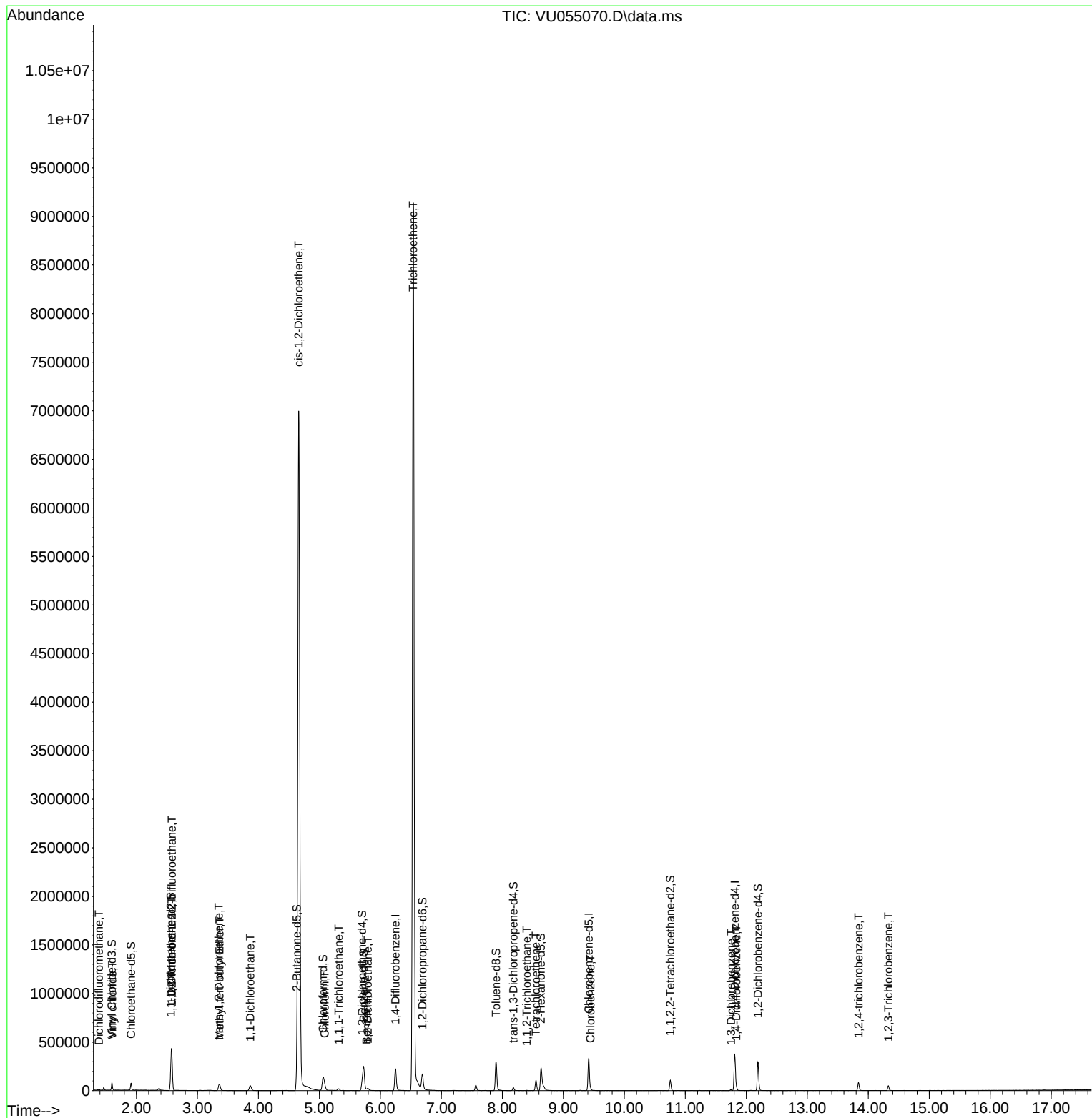
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
72) 1,2,3-Trichlorobenzene	14.328	180	15000	1.120 ug/L	97

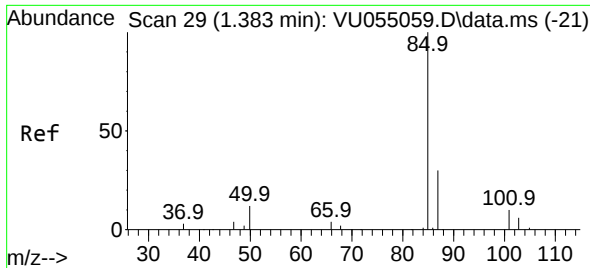
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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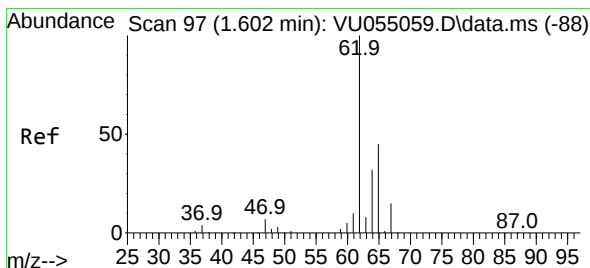
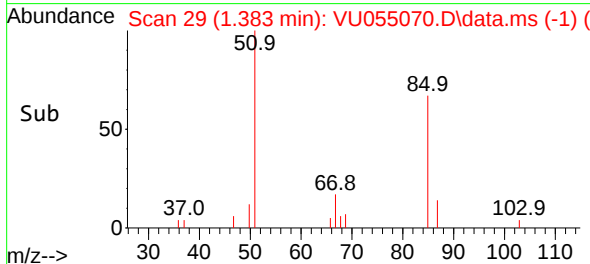
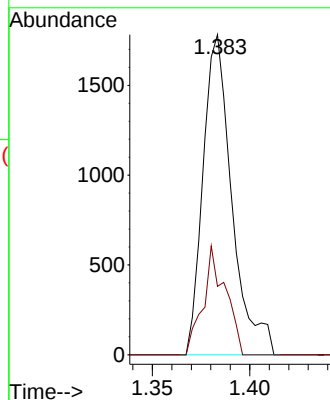
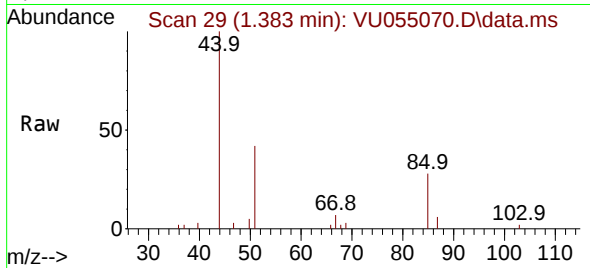




#2
 Dichlorodifluoromethane
 Concen: 0.173 ug/L
 RT: 1.383 min Scan# 29
 Delta R.T. 0.000 min
 Lab File: VU055070.D
 Acq: 02 Sep 2023 03:33

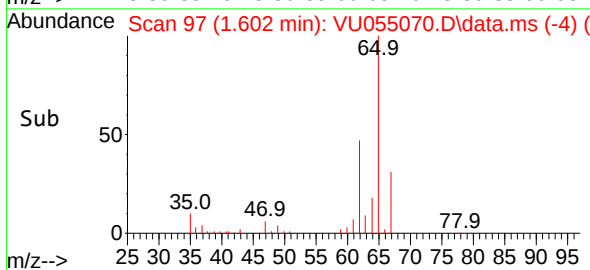
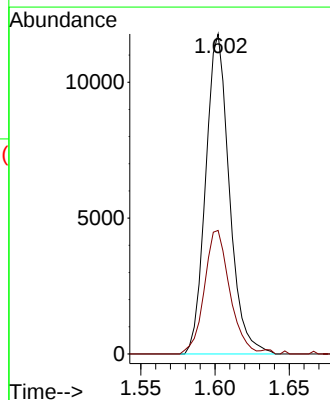
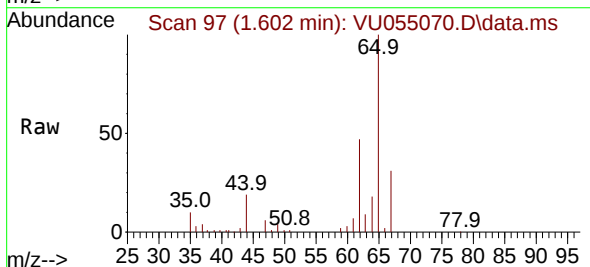
Instrument :
 MSVOA_U
 ClientSampleId :
 BH4A6

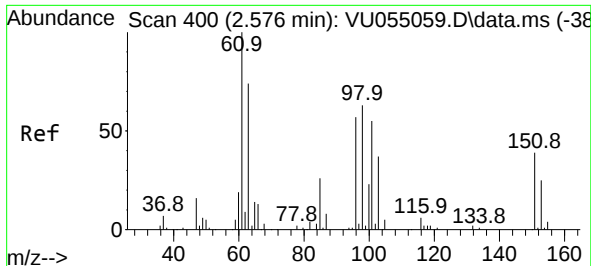
Tgt Ion: 85 Resp: 1832
 Ion Ratio Lower Upper
 85 100
 87 26.3 25.1 37.7



#5
 Vinyl chloride
 Concen: 1.145 ug/L
 RT: 1.602 min Scan# 97
 Delta R.T. 0.000 min
 Lab File: VU055070.D
 Acq: 02 Sep 2023 03:33

Tgt Ion: 62 Resp: 13058
 Ion Ratio Lower Upper
 62 100
 64 38.6 24.2 45.0

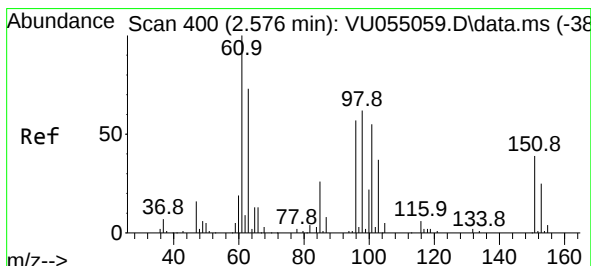
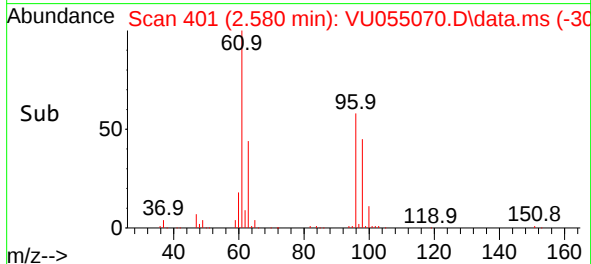
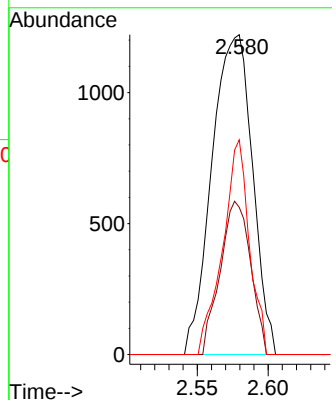
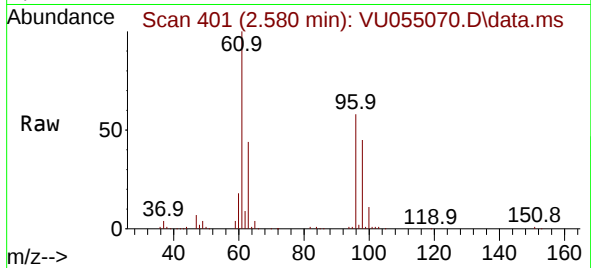




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.252 ug/L
RT: 2.580 min Scan# 401
Delta R.T. 0.003 min
Lab File: VU055070.D
Acq: 02 Sep 2023 03:33

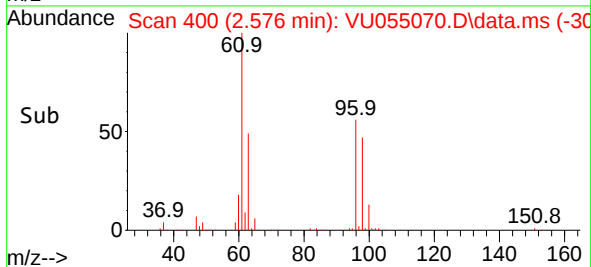
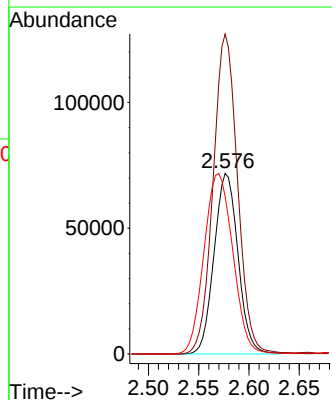
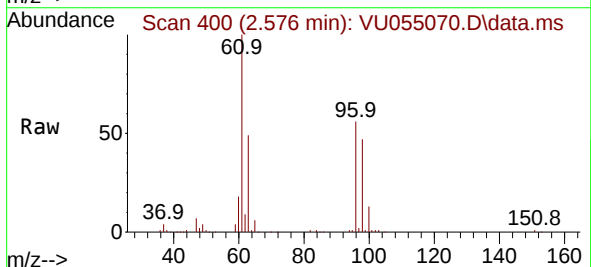
Instrument :
MSVOA_U
ClientSampleId :
BH4A6

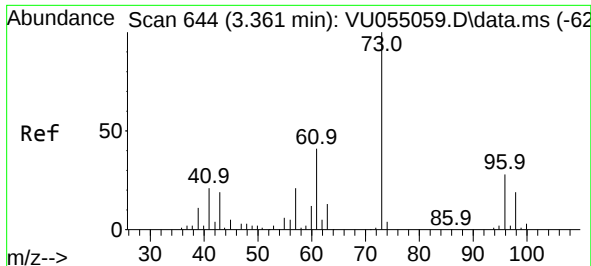
Tgt Ion:101 Resp: 2428
Ion Ratio Lower Upper
101 100
85 36.0 37.3 55.9#
151 44.4 57.6 86.4#



#12
1,1-Dichloroethene
Concen: 14.080 ug/L
RT: 2.576 min Scan# 400
Delta R.T. 0.000 min
Lab File: VU055070.D
Acq: 02 Sep 2023 03:33

Tgt Ion: 96 Resp: 118951
Ion Ratio Lower Upper
96 100
61 177.1 120.8 224.4
63 87.0 94.5 175.5#

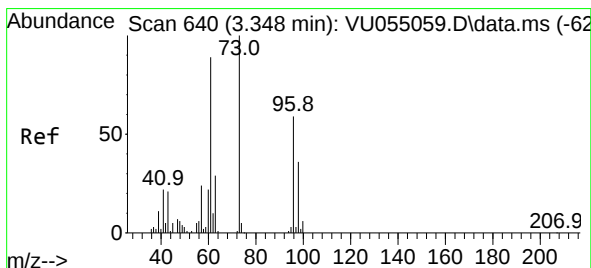
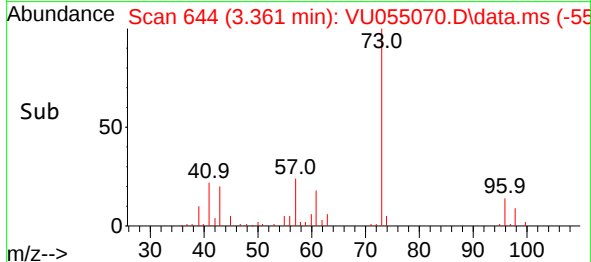
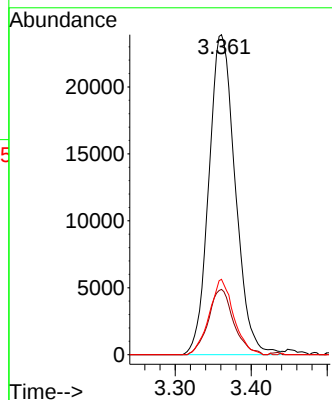
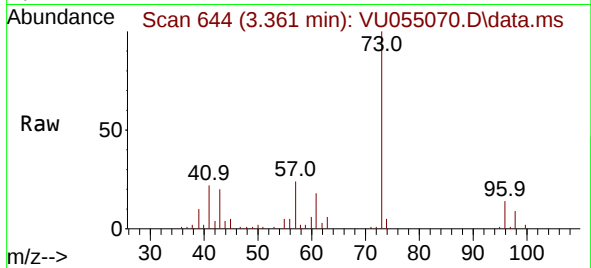




#17
Methyl tert-butyl Ether
Concen: 2.597 ug/L
RT: 3.361 min Scan# 644
Delta R.T. 0.000 min
Lab File: VU055070.D
Acq: 02 Sep 2023 03:33

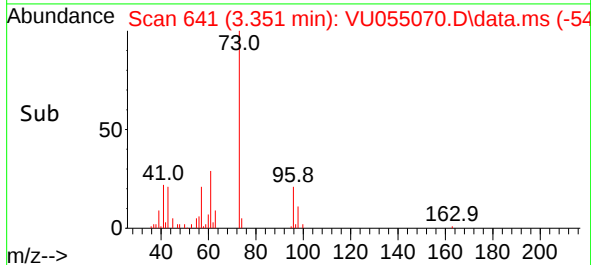
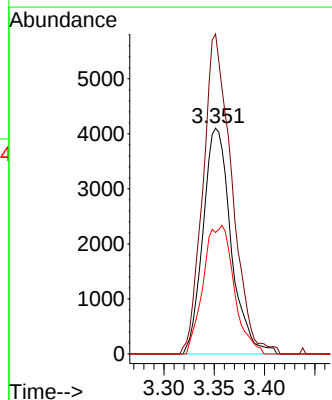
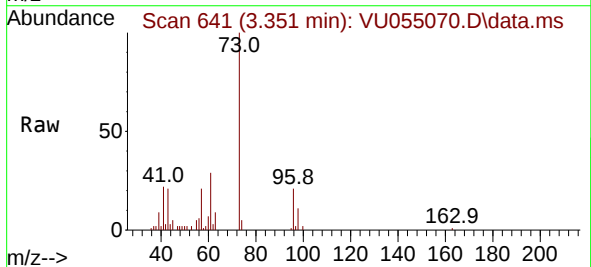
Instrument :
MSVOA_U
ClientSampleId :
BH4A6

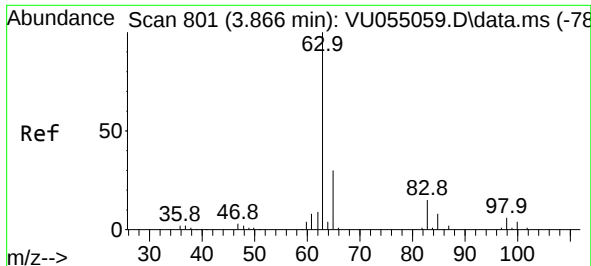
Tgt Ion: 73	Resp: 57534
Ion Ratio	Lower Upper
73	100
43	19.6 16.2 24.2
57	21.8 17.4 26.2



#18
trans-1,2-Dichloroethene
Concen: 0.927 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU055070.D
Acq: 02 Sep 2023 03:33

Tgt Ion: 96	Resp: 7946
Ion Ratio	Lower Upper
96	100
61	141.7 108.1 200.9
98	53.8 45.4 84.4

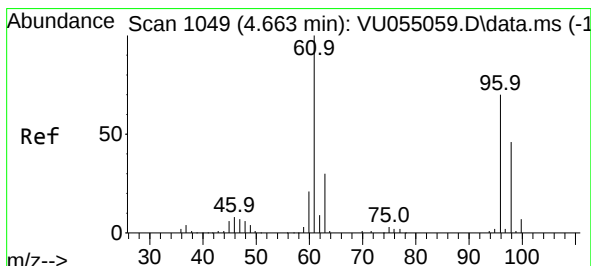
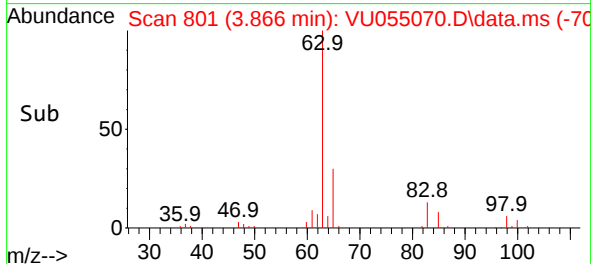
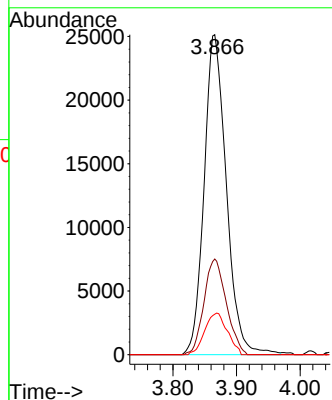
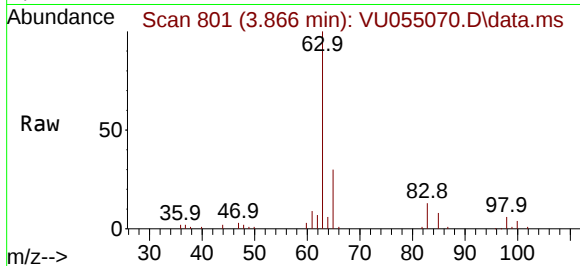




#19
1,1-Dichloroethane
Concen: 3.292 ug/L
RT: 3.866 min Scan# 801
Delta R.T. 0.000 min
Lab File: VU055070.D
Acq: 02 Sep 2023 03:33

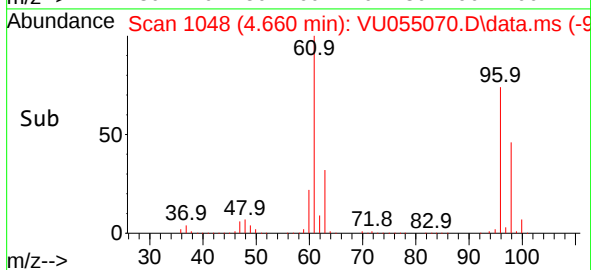
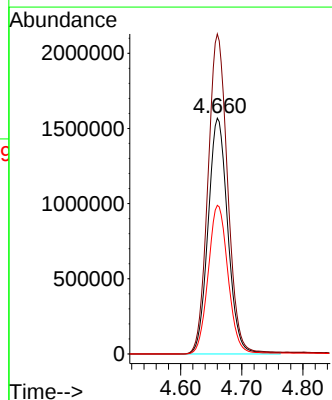
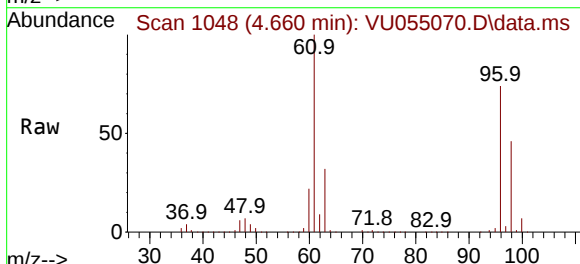
Instrument :
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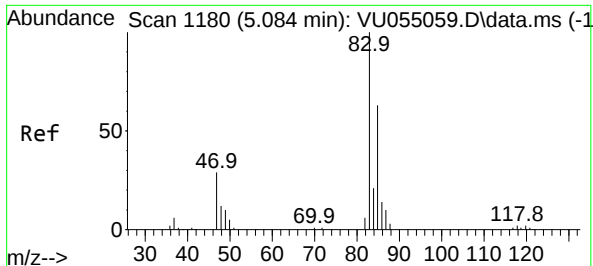
Tgt Ion: 63 Resp: 60987
Ion Ratio Lower Upper
63 100
65 29.9 22.2 41.2
83 12.6 10.6 19.8



#22
cis-1,2-Dichloroethene
Concen: 335.015 ug/L
RT: 4.660 min Scan# 1048
Delta R.T. -0.003 min
Lab File: VU055070.D
Acq: 02 Sep 2023 03:33

Tgt Ion: 96 Resp: 3514952
Ion Ratio Lower Upper
96 100
61 135.7 97.2 180.4
98 63.0 46.1 85.7





#25

Chloroform

Concen: 2.112 ug/L

RT: 5.084 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VU055070.D

Acq: 02 Sep 2023 03:33

Instrument :

MSVOA_U

ClientSampleId :

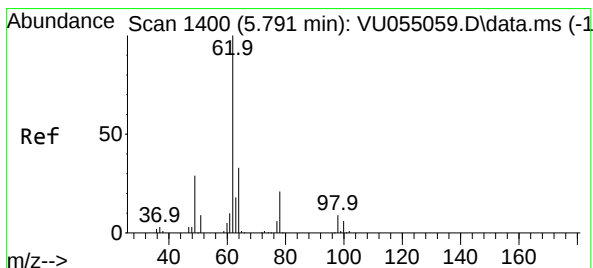
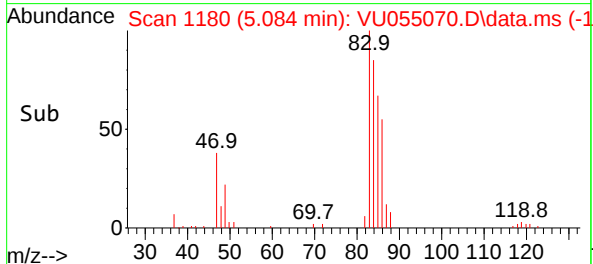
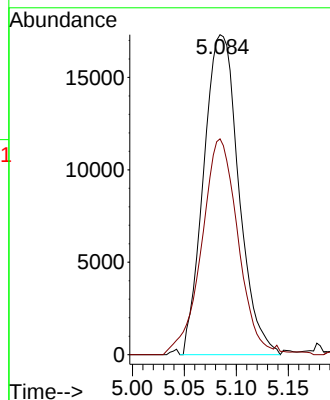
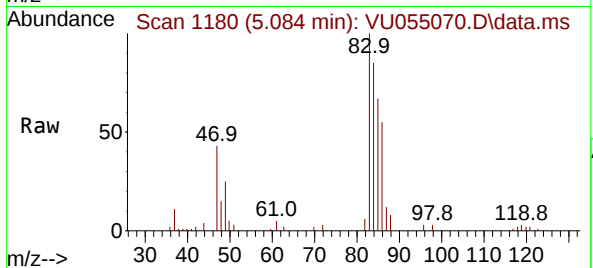
BH4A6

Tgt Ion: 83 Resp: 40753

Ion Ratio Lower Upper

83 100

85 67.4 47.2 87.6



#27

1,2-Dichloroethane

Concen: 1.180 ug/L

RT: 5.792 min Scan# 1400

Delta R.T. 0.000 min

Lab File: VU055070.D

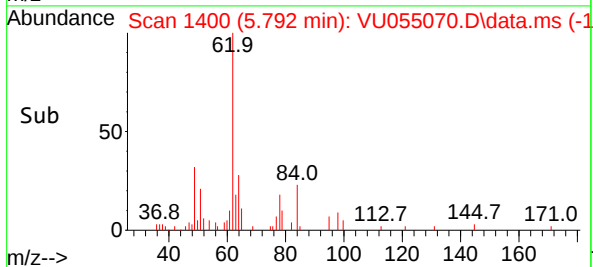
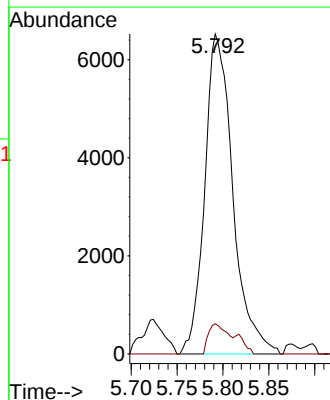
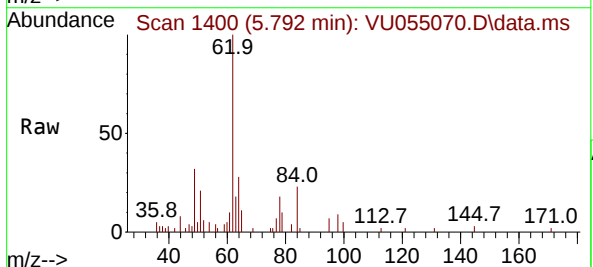
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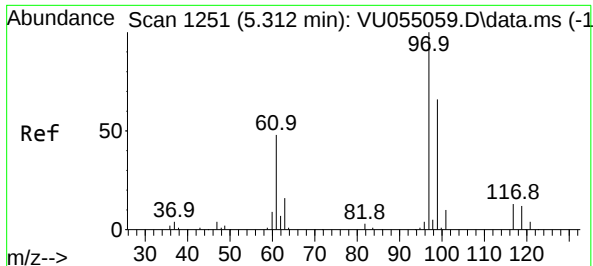
Tgt Ion: 62 Resp: 13897

Ion Ratio Lower Upper

62 100

98 9.4 6.9 10.3





#29

1,1,1-Trichloroethane

Concen: 0.805 ug/L

RT: 5.316 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU055070.D

Acq: 02 Sep 2023 03:33

Instrument :

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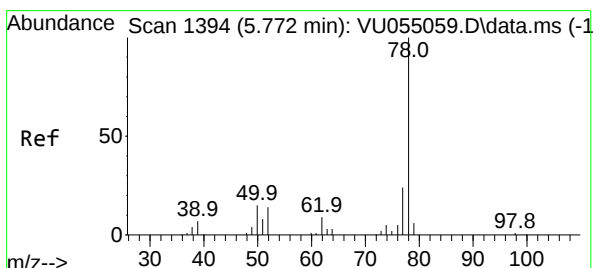
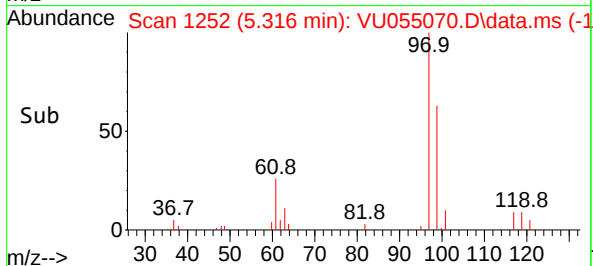
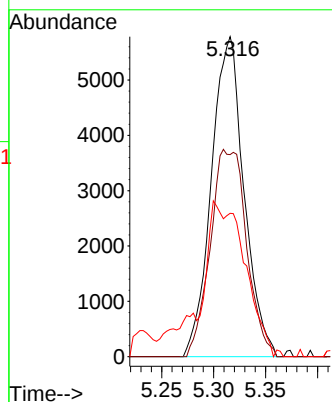
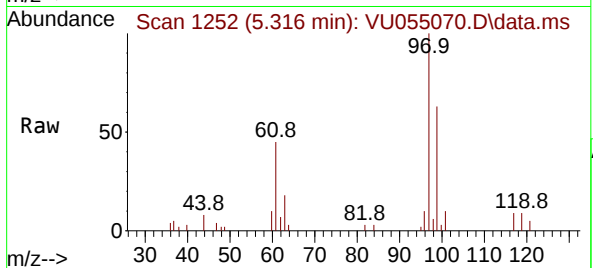
Tgt Ion: 97 Resp: 12647

Ion Ratio Lower Upper

97 100

99 71.8 51.8 77.8

61 16.9 36.8 55.2#



#33

Benzene

Concen: 0.127 ug/L

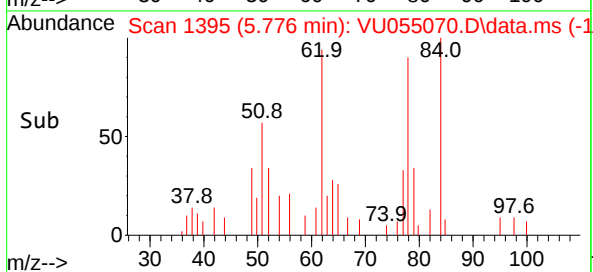
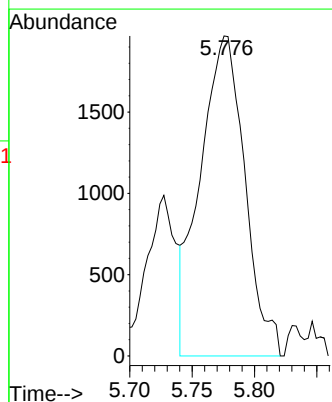
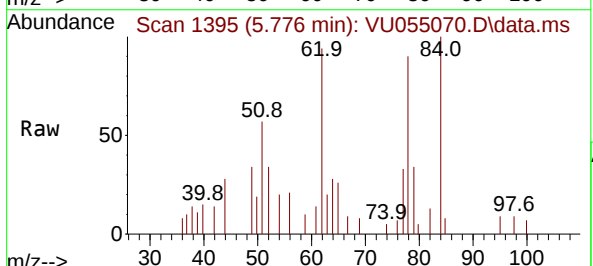
RT: 5.776 min Scan# 1395

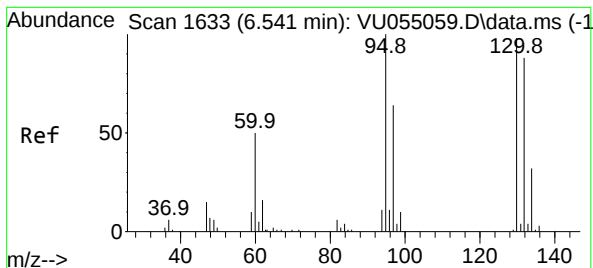
Delta R.T. 0.003 min

Lab File: VU055070.D

Acq: 02 Sep 2023 03:33

Tgt Ion: 78 Resp: 4898





#34

Trichloroethene

Concen: 289.305 ug/L

RT: 6.538 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU055070.D

Acq: 02 Sep 2023 03:33

Instrument :

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ClientSampleId :

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Tgt Ion: 95 Resp: 3108647

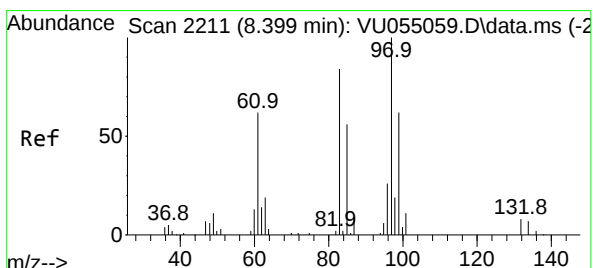
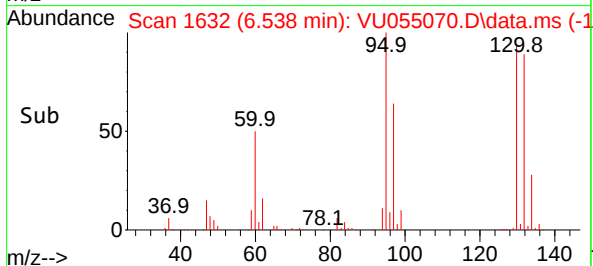
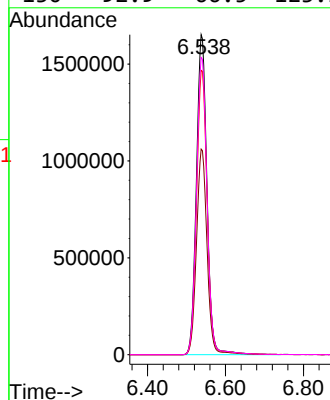
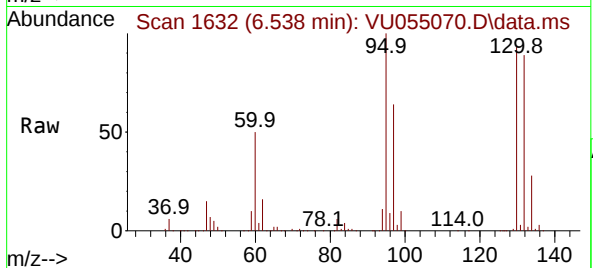
Ion Ratio Lower Upper

95 100

97 64.2 44.7 83.1

132 88.9 66.6 123.6

130 92.9 66.5 123.5



#45

1,1,2-Trichloroethane

Concen: 0.100 ug/L

RT: 8.399 min Scan# 2211

Delta R.T. 0.000 min

Lab File: VU055070.D

Acq: 02 Sep 2023 03:33

Tgt Ion: 97 Resp: 706

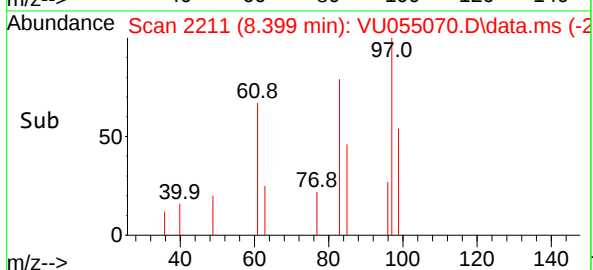
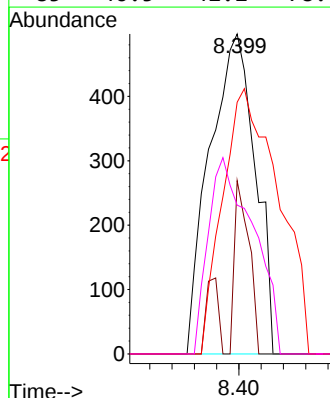
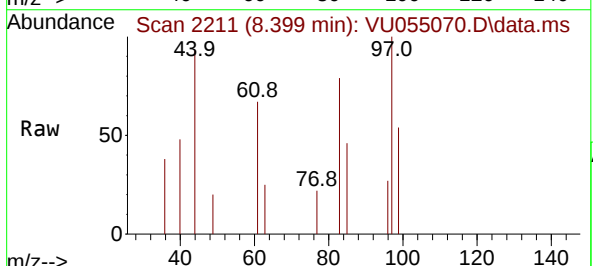
Ion Ratio Lower Upper

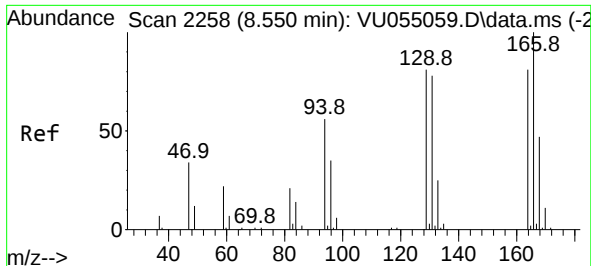
97 100

99 54.1 44.9 83.5

83 78.7 66.9 124.3

85 46.5 42.2 78.4





#47

Tetrachloroethene

Concen: 2.979 ug/L

RT: 8.550 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU055070.D

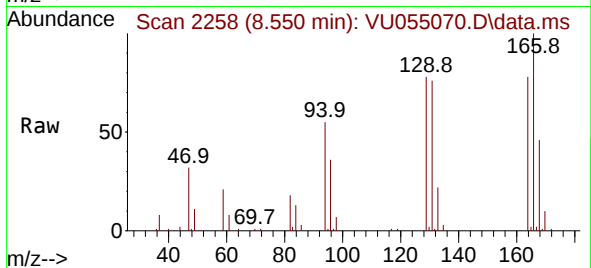
Acq: 02 Sep 2023 03:33

Instrument :

MSVOA_U

ClientSampleId :

BH4A6



Tgt Ion:164 Resp: 22123

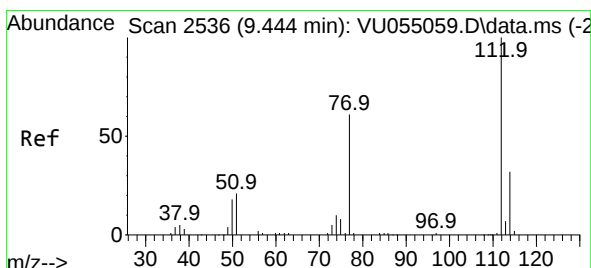
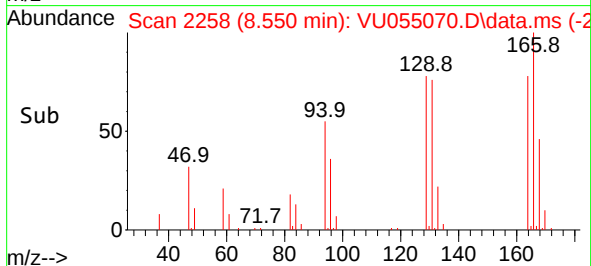
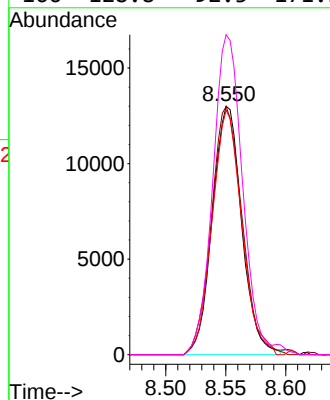
Ion Ratio Lower Upper

164 100

129 99.9 69.2 128.6

131 98.4 68.8 127.8

166 128.8 92.3 171.5



#51

Chlorobenzene

Concen: 0.227 ug/L

RT: 9.444 min Scan# 2536

Delta R.T. 0.000 min

Lab File: VU055070.D

Acq: 02 Sep 2023 03:33

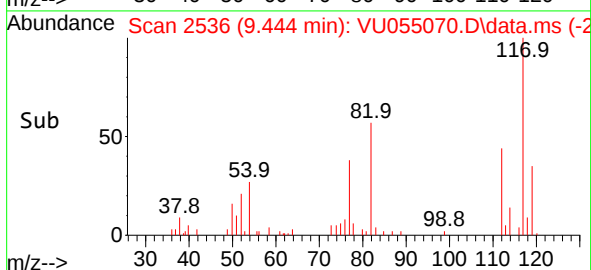
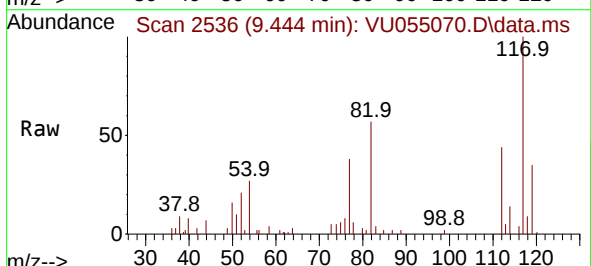
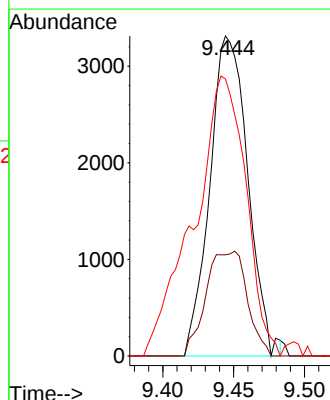
Tgt Ion:112 Resp: 6189

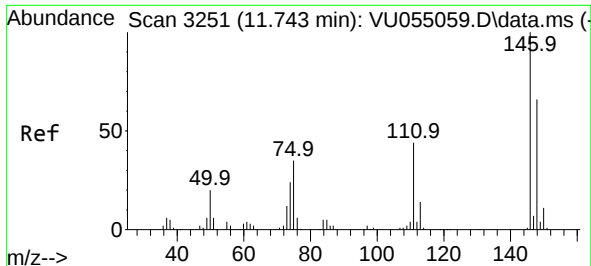
Ion Ratio Lower Upper

112 100

114 31.6 21.7 40.3

77 99.9 48.6 72.8#





#64

1,3-Dichlorobenzene

Concen: 0.217 ug/L

RT: 11.750 min Scan# 31

Delta R.T. 0.007 min

Lab File: VU055070.D

Acq: 02 Sep 2023 03:33

Instrument :

MSVOA_U

ClientSampleId :

BH4A6

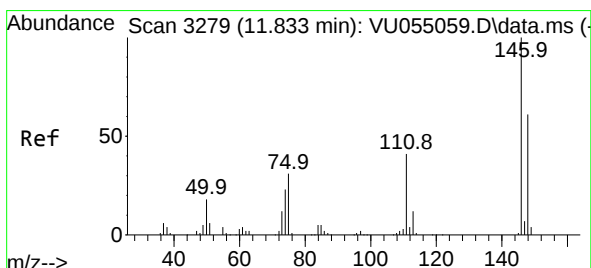
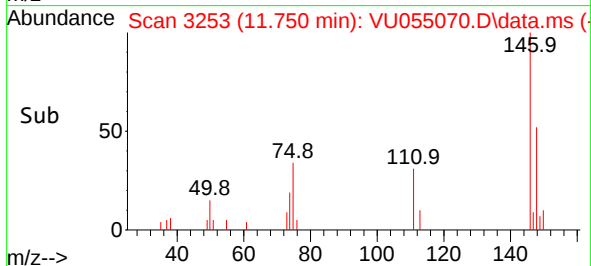
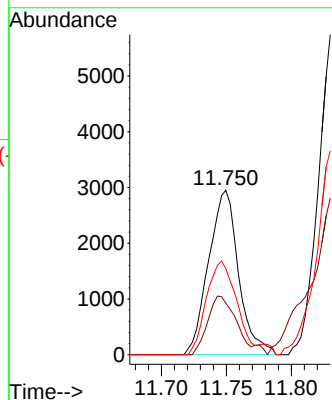
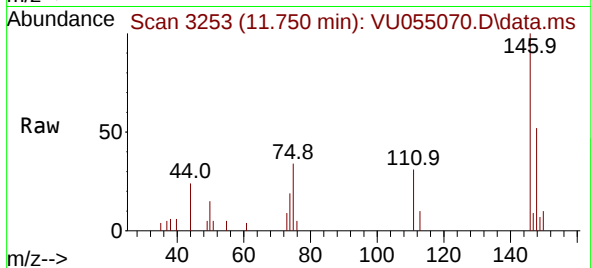
Tgt Ion:146 Resp: 4727

Ion Ratio Lower Upper

146 100

111 31.3 30.0 55.6

148 52.3 45.2 84.0



#65

1,4-Dichlorobenzene

Concen: 0.509 ug/L

RT: 11.836 min Scan# 3280

Delta R.T. 0.003 min

Lab File: VU055070.D

Acq: 02 Sep 2023 03:33

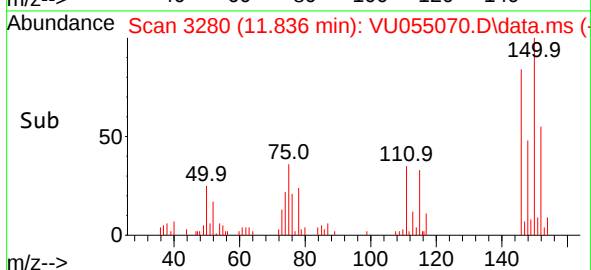
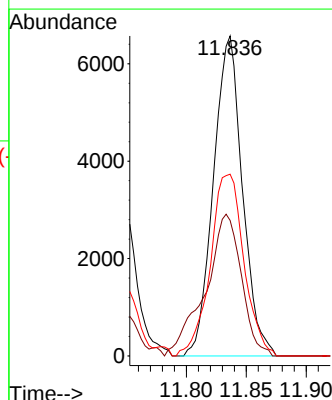
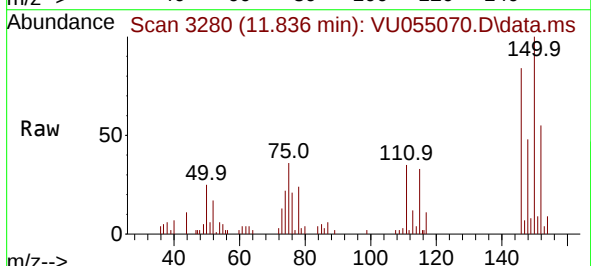
Tgt Ion:146 Resp: 11044

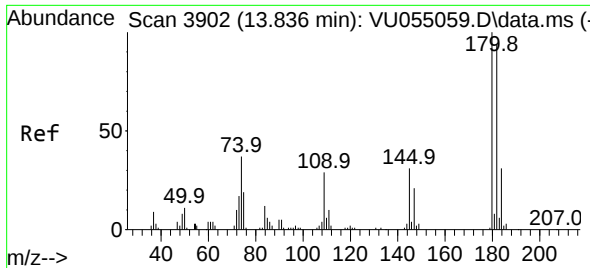
Ion Ratio Lower Upper

146 100

111 44.8 28.1 52.1

148 56.8 43.8 81.3

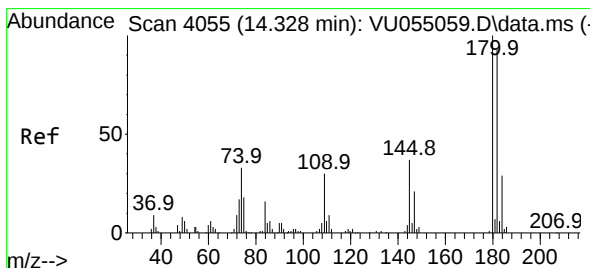
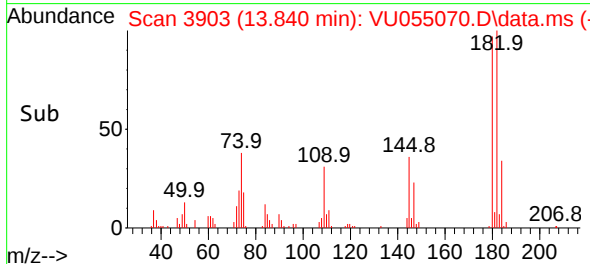
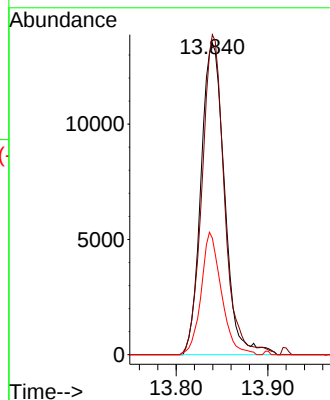
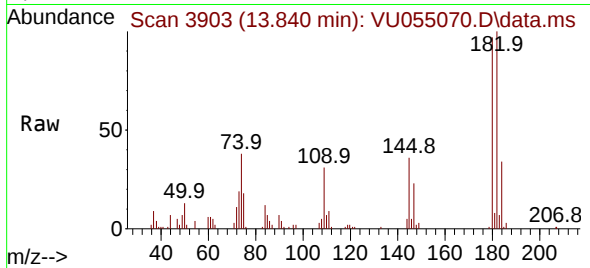




#70
1,2,4-trichlorobenzene
Concen: 1.562 ug/L
RT: 13.840 min Scan# 3902
Delta R.T. 0.003 min
Lab File: VU055070.D
Acq: 02 Sep 2023 03:33

Instrument :
MSVOA_U
ClientSampleId :
BH4A6

Tgt Ion:180 Resp: 24116
Ion Ratio Lower Upper
180 100
182 97.2 73.6 110.4
145 33.7 25.8 38.8



#72
1,2,3-Trichlorobenzene
Concen: 1.120 ug/L
RT: 14.328 min Scan# 4055
Delta R.T. 0.000 min
Lab File: VU055070.D
Acq: 02 Sep 2023 03:33

Tgt Ion:180 Resp: 15000
Ion Ratio Lower Upper
180 100
182 96.5 75.6 113.4
145 36.2 27.0 40.6

