

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U083023\
 Data File : U055002.D
 Acq On : 30 Aug 2023 16:28
 Operator : MD/SY
 Sample : 04153-04
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 31 02:38:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR082823WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Aug 31 02:34:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.255	114	185804	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	179071	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.811	152	95003	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	19413	3.310	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	66.200%
7) Chloroethane-d5	1.907	69	26764	3.533	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	70.600%
11) 1,1-Dichloroethene-d2	2.560	65	12673	3.823	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.400%
20) 2-Butanone-d5	4.679	46	141007	44.545	ug/L	0.05
Spiked Amount	50.000	Range	40 - 130	Recovery	=	89.080%
24) Chloroform-d	5.062	84	99649	4.581	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.600%
26) 1,2-Dichloroethane-d4	5.702	65	55452	4.790	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.800%
32) Benzene-d6	5.730	84	171113	4.251	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.000%
36) 1,2-Dichloropropane-d6	6.708	67	68230	4.820	ug/L	0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.400%
41) Toluene-d8	7.901	98	156626	4.063	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.200%
43) trans-1,3-Dichloroprop...	8.181	79	21283	4.568	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.400%
46) 2-Hexanone-d5	8.634	63	141766	64.109	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	128.220%
56) 1,1,2,2-Tetrachloroeth...	10.756	84	64314	5.298	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.000%
66) 1,2-Dichlorobenzene-d4	12.193	152	71019	4.682	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.512	50	2151	0.179	ug/L	84
5) Vinyl chloride	1.599	62	38638	3.098	ug/L	98
12) 1,1-Dichloroethene	2.576	96	136880	16.314	ug/L #	74
16) Methylene chloride	3.039	84	10158	0.788	ug/L	96
17) Methyl tert-butyl Ether	3.367	73	4126	0.169	ug/L	95
18) trans-1,2-Dichloroethene	3.348	96	380825	41.537	ug/L	94
19) 1,1-Dichloroethane	3.872	63	2502	0.130	ug/L	95
25) Chloroform	5.087	83	76568	3.630	ug/L	99
27) 1,2-Dichloroethane	5.798	62	12200	0.947	ug/L #	89
30) Cyclohexane	5.390	56	48963	3.103	ug/L	98
33) Benzene	5.779	78	67984	1.609	ug/L	100
35) Methylcyclohexane	6.775	83	116661	6.735	ug/L #	91
37) 1,2-Dichloropropane	6.563	63	484086	41.104	ug/L #	90
42) Toluene	7.972	91	11963	0.255	ug/L	95
45) 1,1,2-Trichloroethane	8.399	97	25358	3.190	ug/L	98
47) Tetrachloroethene	8.554	164	61226	7.278	ug/L	95
48) 2-Hexanone	8.689	43	13933	2.866	ug/L #	88
49) Dibromochloromethane	8.554	129	60660	6.588	ug/L #	6
51) Chlorobenzene	9.444	112	76483	2.507	ug/L	97

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

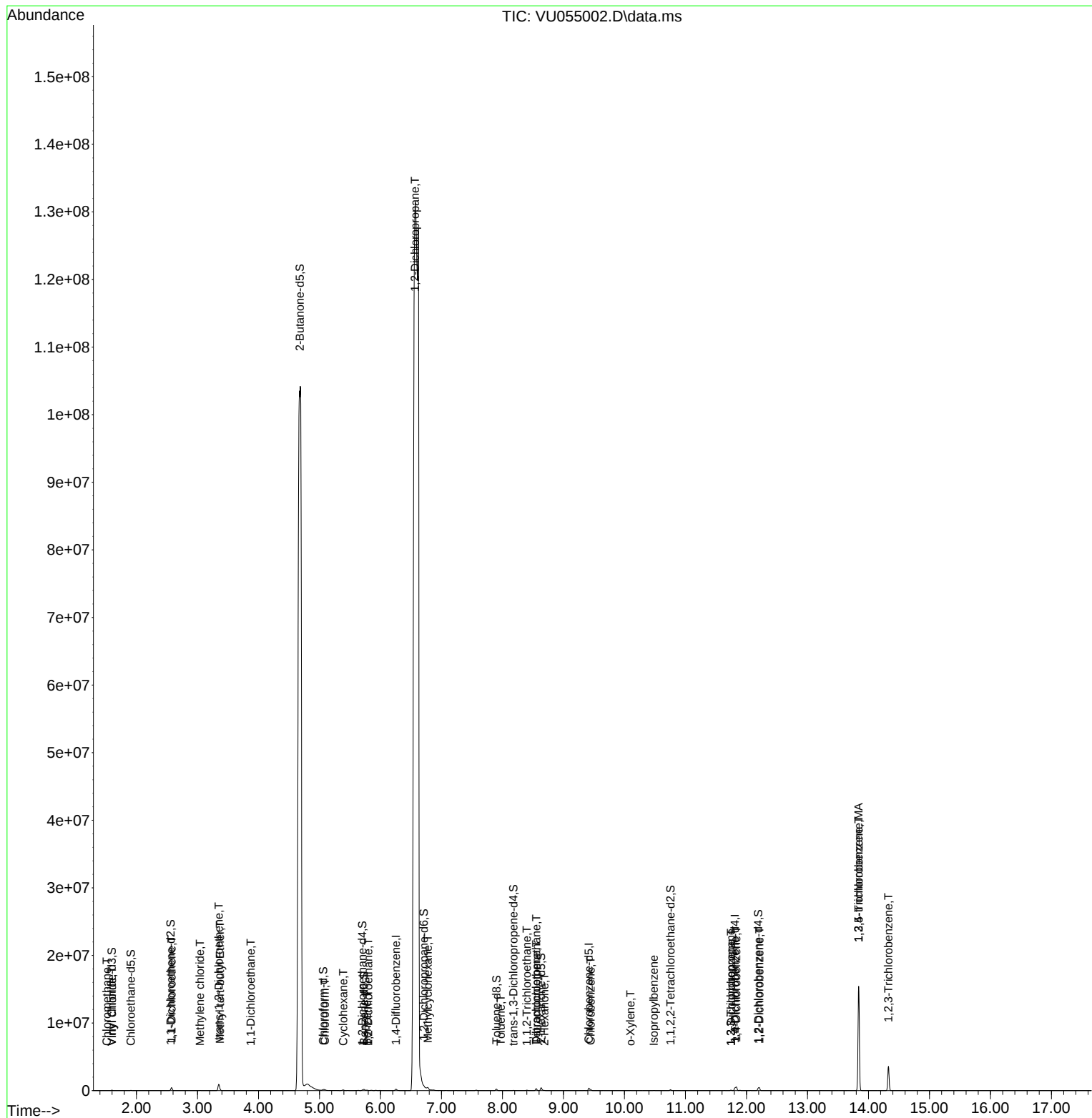
54) o-Xylene	10.100	106	3848	0.203	ug/L	83
60) Isopropylbenzene	10.483	105	17292	0.339	ug/L	97
61) 1,2,3-Trichloropropane	11.743	75	10370	1.466	ug/L #	64
64) 1,3-Dichlorobenzene	11.746	146	29309	1.235	ug/L	98
65) 1,4-Dichlorobenzene	11.833	146	200283	8.437	ug/L	97
67) 1,2-Dichlorobenzene	12.213	146	145478	6.726	ug/L	98
69) 1,3,5-Trichlorobenzene	13.839	180	4092124	258.662	ug/L	99
70) 1,2,4-trichlorobenzene	13.839	180	4092124	330.254	ug/L	98
72) 1,2,3-Trichlorobenzene	14.328	180	968248	94.312	ug/L	99

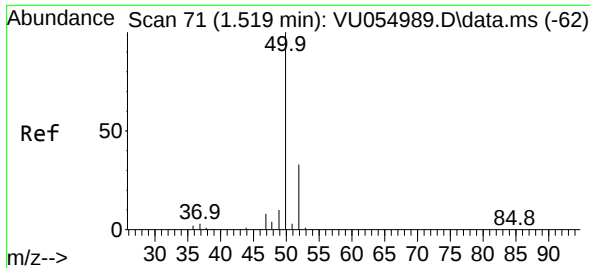
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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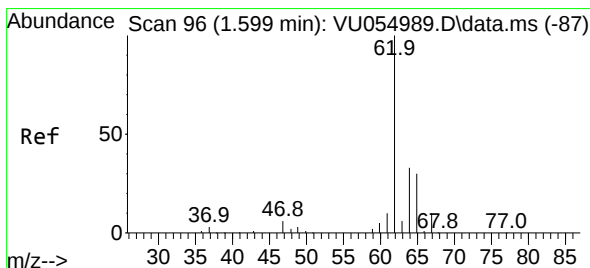
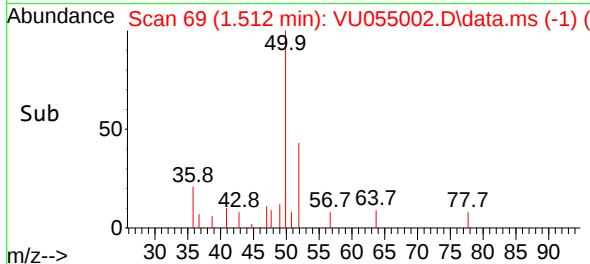
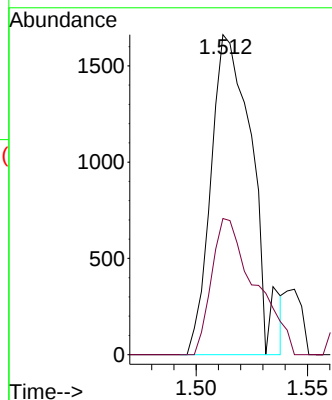
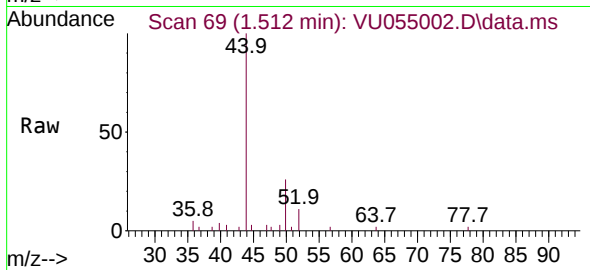




#3
Chloromethane
Concen: 0.179 ug/L
RT: 1.512 min Scan# 69
Delta R.T. -0.007 min
Lab File: VU055002.D
Acq: 30 Aug 2023 16:28

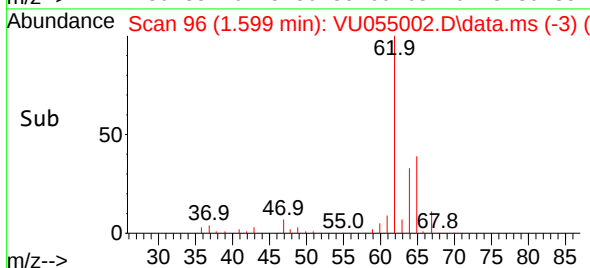
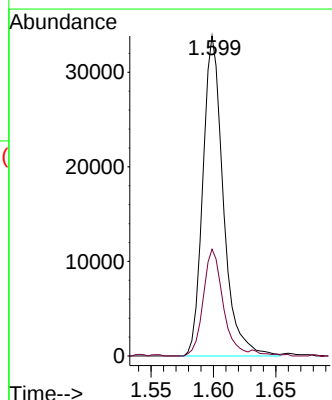
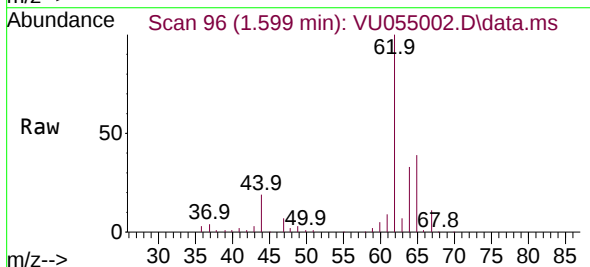
Instrument :
MSVOA_U
ClientSampleId :

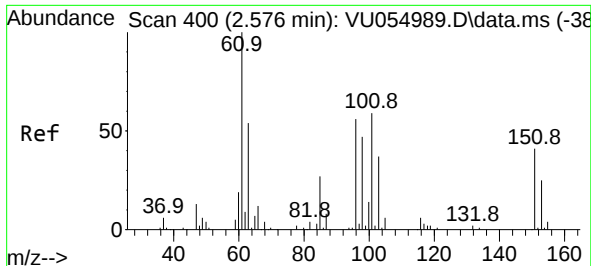
Tgt Ion: 50 Resp: 2151
Ion Ratio Lower Upper
50 100
52 42.5 23.4 43.6



#5
Vinyl chloride
Concen: 3.098 ug/L
RT: 1.599 min Scan# 96
Delta R.T. -0.000 min
Lab File: VU055002.D
Acq: 30 Aug 2023 16:28

Tgt Ion: 62 Resp: 38638
Ion Ratio Lower Upper
62 100
64 33.4 22.7 42.1





#12

1,1-Dichloroethene

Concen: 16.314 ug/L

RT: 2.576 min Scan# 400

Delta R.T. -0.000 min

Lab File: VU055002.D

Acq: 30 Aug 2023 16:28

Instrument :

MSVOA_U

ClientSampleId :

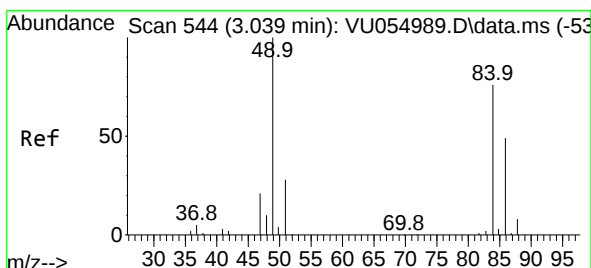
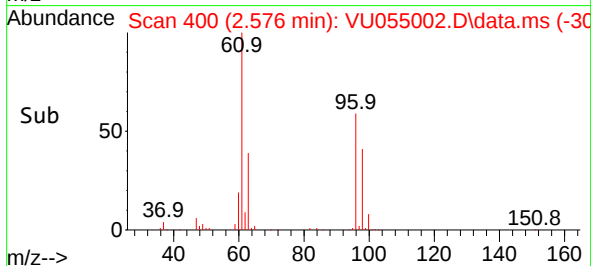
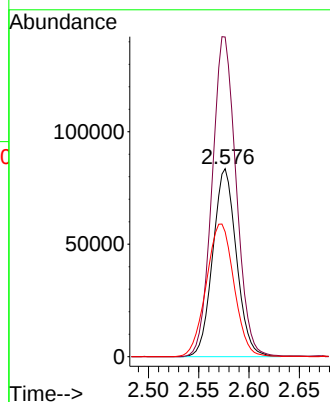
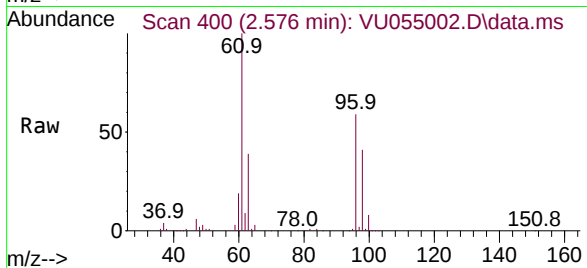
Tgt Ion: 96 Resp: 136880

Ion Ratio Lower Upper

96 100

61 170.1 132.4 245.8

63 66.4 82.5 153.1#



#16

Methylene chloride

Concen: 0.788 ug/L

RT: 3.039 min Scan# 544

Delta R.T. -0.000 min

Lab File: VU055002.D

Acq: 30 Aug 2023 16:28

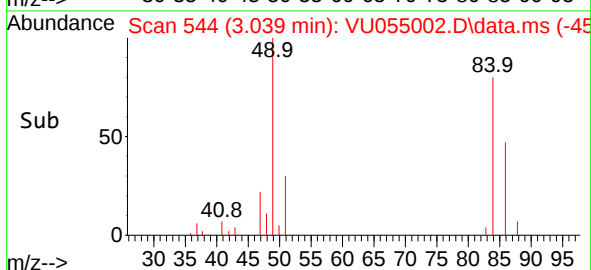
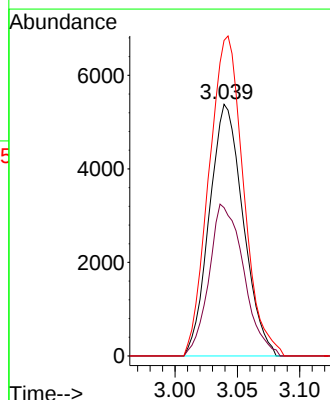
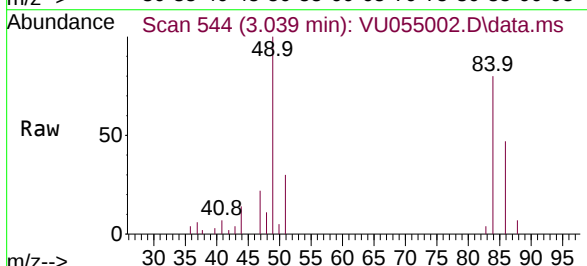
Tgt Ion: 84 Resp: 10158

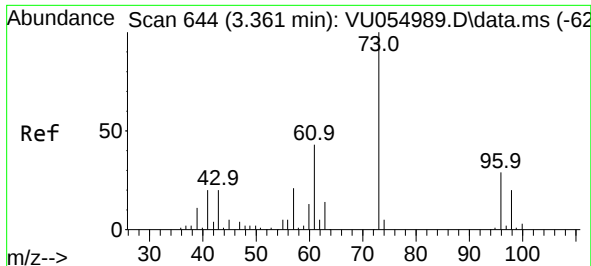
Ion Ratio Lower Upper

84 100

86 58.9 45.1 83.7

49 125.4 89.5 166.3

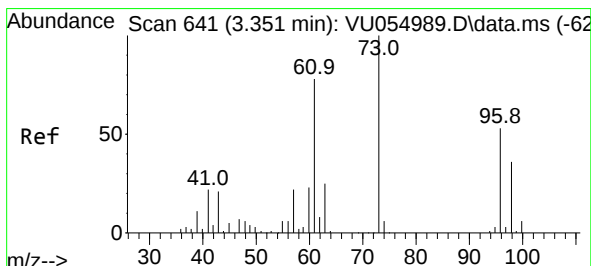
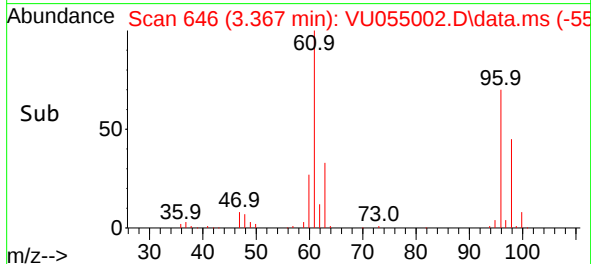
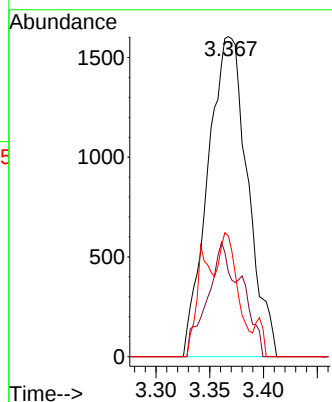
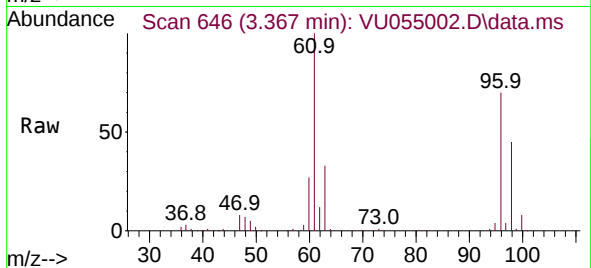




#17
Methyl tert-butyl Ether
Concen: 0.169 ug/L
RT: 3.367 min Scan# 64
Delta R.T. 0.006 min
Lab File: VU055002.D
Acq: 30 Aug 2023 16:28

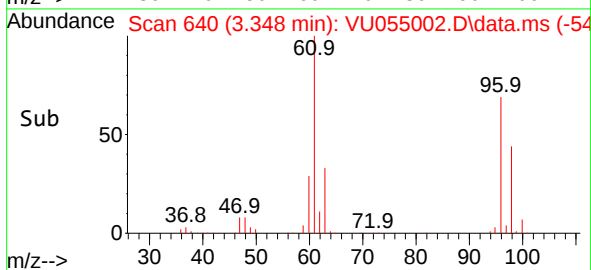
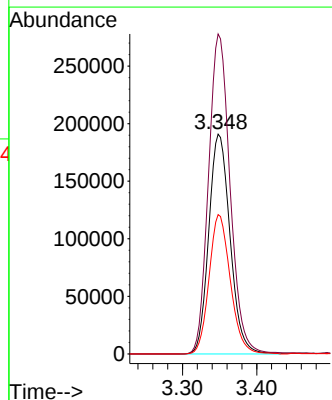
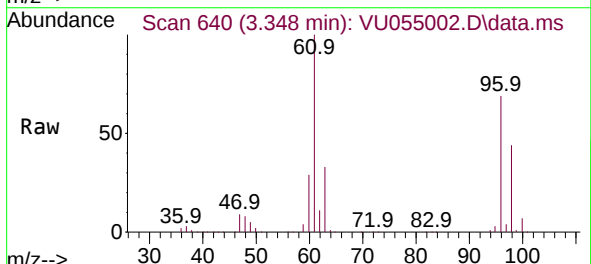
Instrument :
MSVOA_U
ClientSampleId :

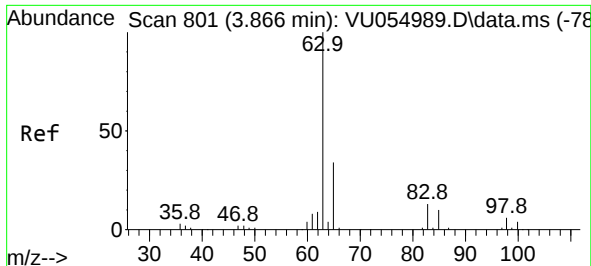
Tgt Ion: 73 Resp: 4126
Ion Ratio Lower Upper
73 100
43 22.0 16.2 24.2
57 19.2 17.4 26.0



#18
trans-1,2-Dichloroethene
Concen: 41.537 ug/L
RT: 3.348 min Scan# 640
Delta R.T. -0.003 min
Lab File: VU055002.D
Acq: 30 Aug 2023 16:28

Tgt Ion: 96 Resp: 380825
Ion Ratio Lower Upper
96 100
61 145.5 108.8 202.0
98 63.4 45.8 85.2





#19

1,1-Dichloroethane

Concen: 0.130 ug/L

RT: 3.872 min Scan# 801

Delta R.T. 0.006 min

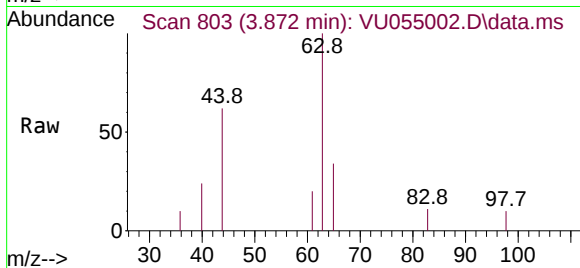
Lab File: VU055002.D

Acq: 30 Aug 2023 16:28

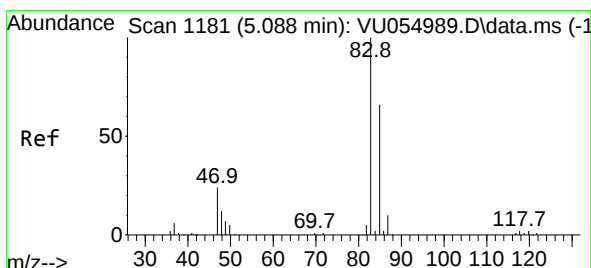
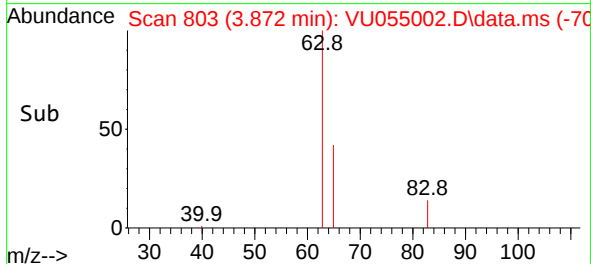
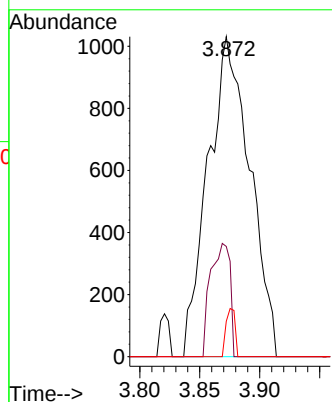
Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:	63	Resp:	2502
Ion	Ratio	Lower	Upper
63	100		
65	34.4	22.5	41.7
83	11.1	9.5	17.7



#25

Chloroform

Concen: 3.630 ug/L

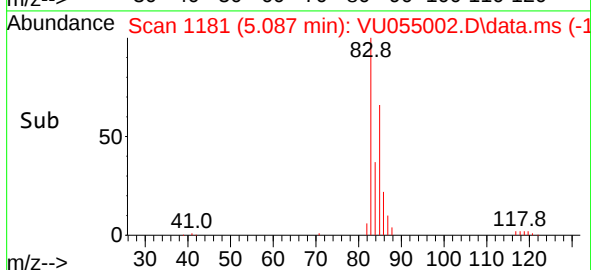
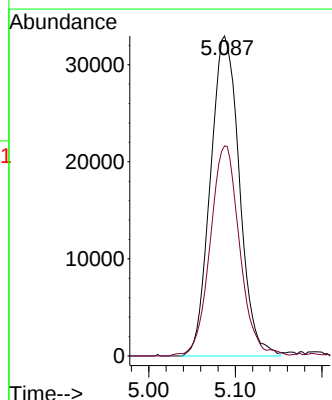
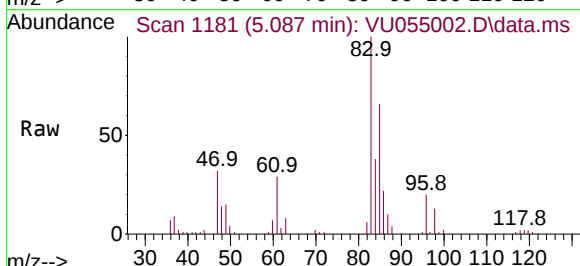
RT: 5.087 min Scan# 1181

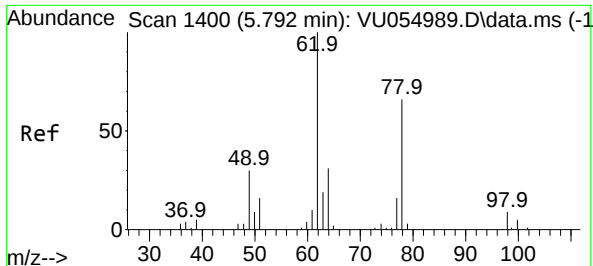
Delta R.T. -0.000 min

Lab File: VU055002.D

Acq: 30 Aug 2023 16:28

Tgt Ion:	83	Resp:	76568
Ion	Ratio	Lower	Upper
83	100		
85	65.7	46.7	86.7





#27

1,2-Dichloroethane

Concen: 0.947 ug/L

RT: 5.798 min Scan# 14

Delta R.T. 0.006 min

Lab File: VU055002.D

Acq: 30 Aug 2023 16:28

Instrument :

MSVOA_U

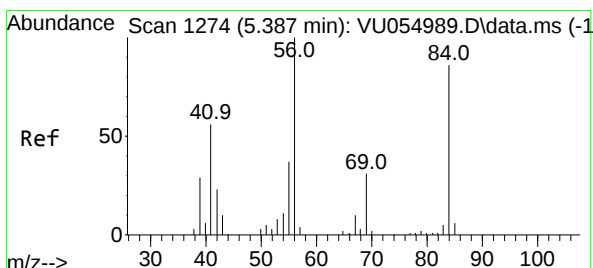
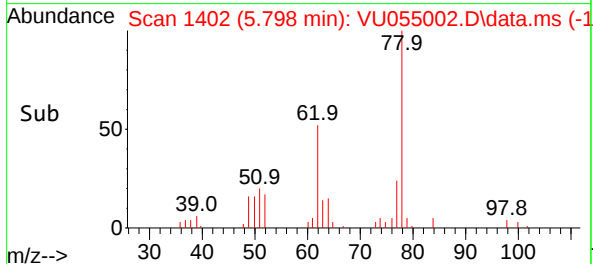
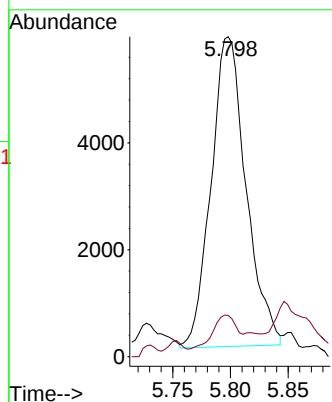
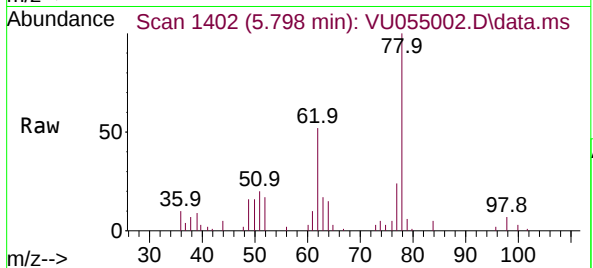
ClientSampleId :

Tgt Ion: 62 Resp: 12200

Ion Ratio Lower Upper

62 100

98 12.9 7.0 10.6#



#30

Cyclohexane

Concen: 3.103 ug/L

RT: 5.390 min Scan# 1275

Delta R.T. 0.003 min

Lab File: VU055002.D

Acq: 30 Aug 2023 16:28

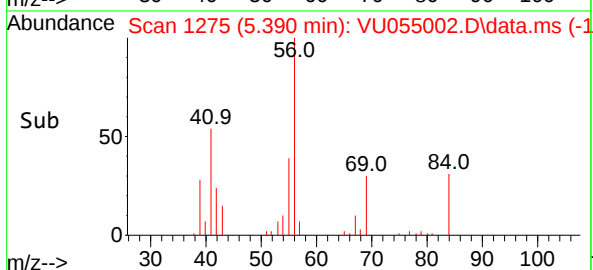
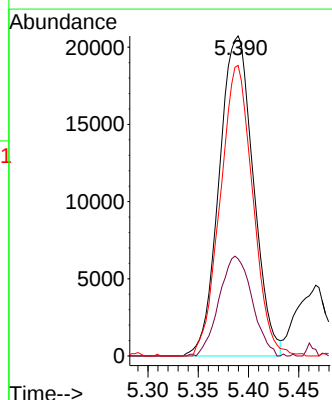
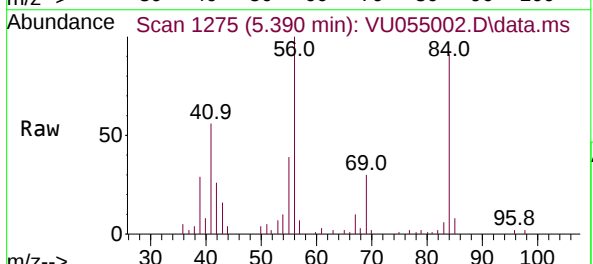
Tgt Ion: 56 Resp: 48963

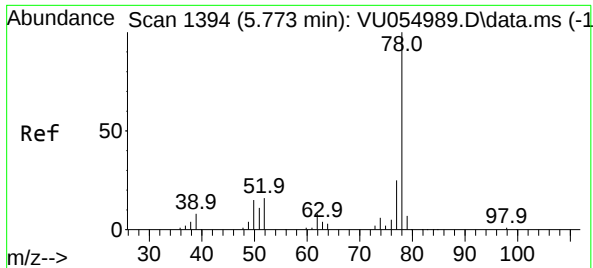
Ion Ratio Lower Upper

56 100

69 30.1 24.5 36.7

84 86.6 71.3 106.9

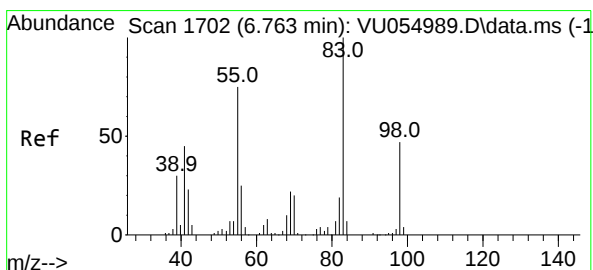
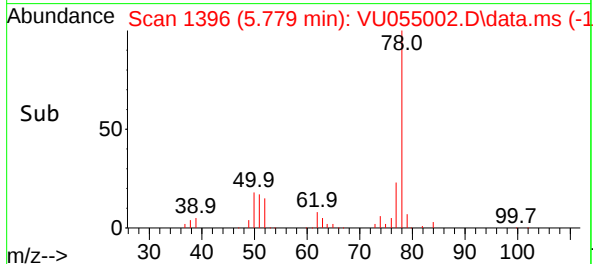
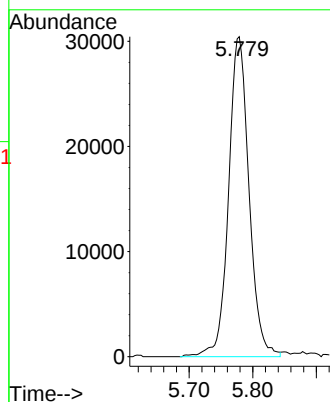
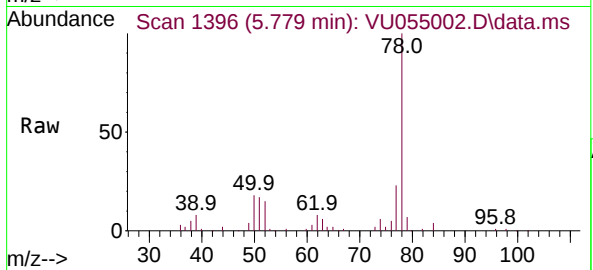




#33
Benzene
Concen: 1.609 ug/L
RT: 5.779 min Scan# 11
Delta R.T. 0.006 min
Lab File: VU055002.D
Acq: 30 Aug 2023 16:28

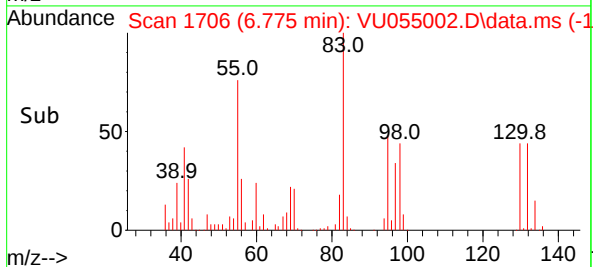
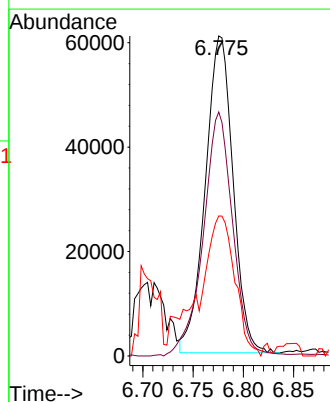
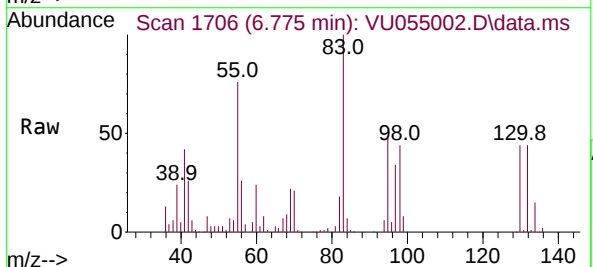
Instrument :
MSVOA_U
ClientSampleId :

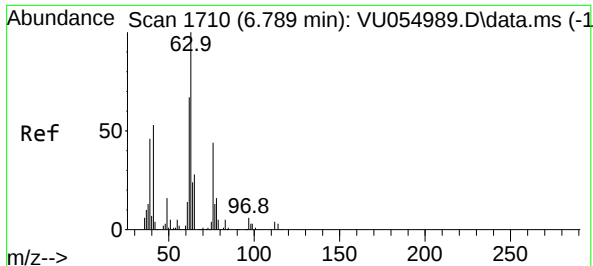
Tgt Ion: 78 Resp: 67984



#35
Methylcyclohexane
Concen: 6.735 ug/L
RT: 6.775 min Scan# 1706
Delta R.T. 0.013 min
Lab File: VU055002.D
Acq: 30 Aug 2023 16:28

Tgt Ion: 83 Resp: 116661
Ion Ratio Lower Upper
83 100
55 81.9 62.1 93.1
98 58.1 37.8 56.6#

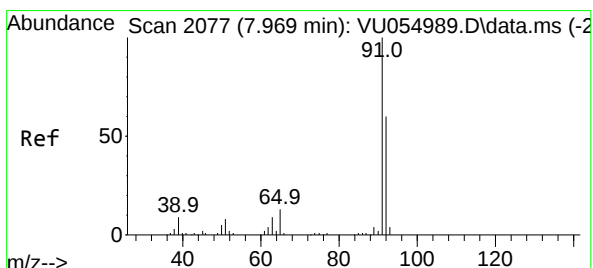
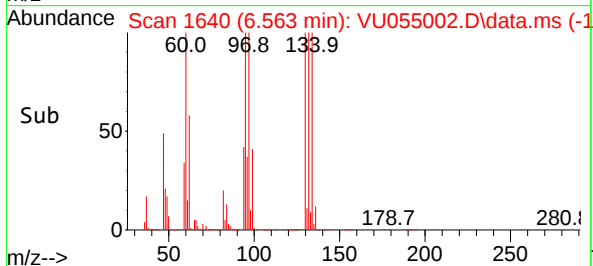
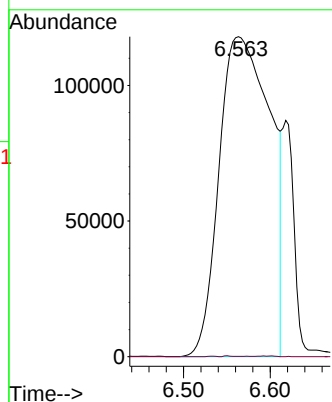
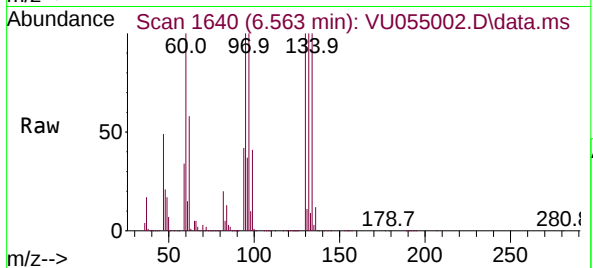




#37
1,2-Dichloropropane
Concen: 41.104 ug/L
RT: 6.563 min Scan# 11
Delta R.T. -0.225 min
Lab File: VU055002.D
Acq: 30 Aug 2023 16:28

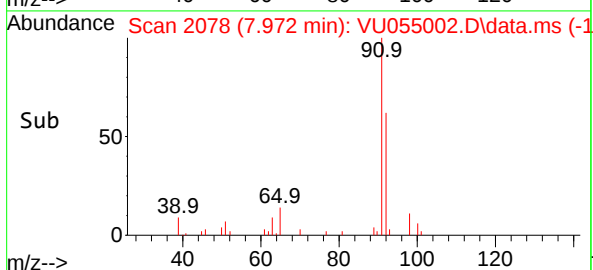
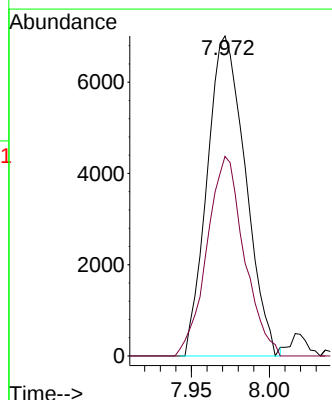
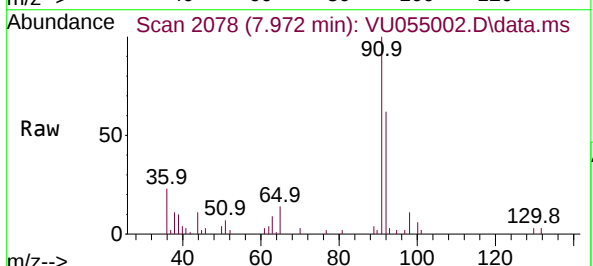
Instrument :
MSVOA_U
ClientSampleId :

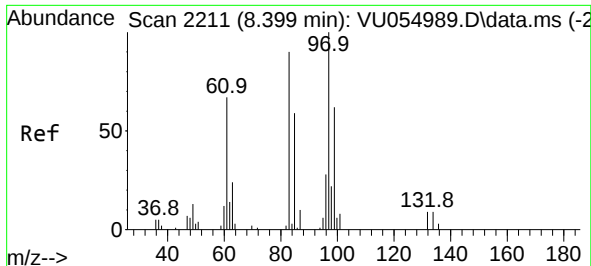
Tgt Ion: 63 Resp: 484086
Ion Ratio Lower Upper
63 100
112 0.0 2.7 4.1#



#42
Toluene
Concen: 0.255 ug/L
RT: 7.972 min Scan# 2078
Delta R.T. 0.003 min
Lab File: VU055002.D
Acq: 30 Aug 2023 16:28

Tgt Ion: 91 Resp: 11963
Ion Ratio Lower Upper
91 100
92 62.3 41.2 76.4



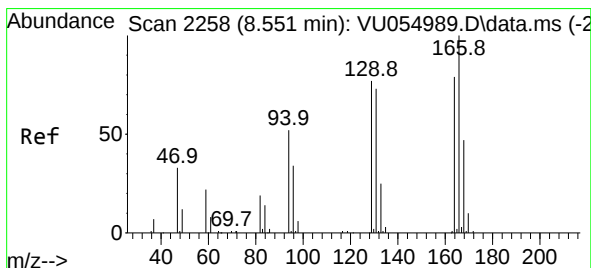
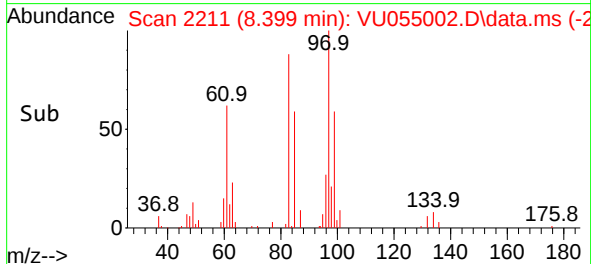
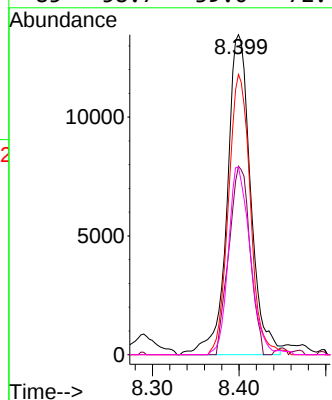
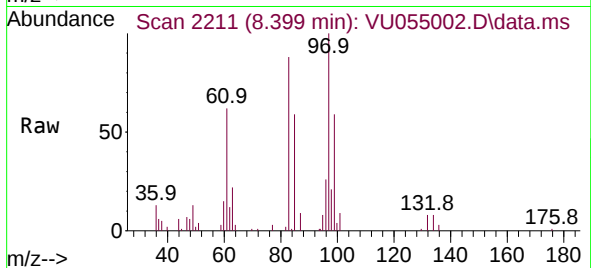


#45
1,1,2-Trichloroethane
Concen: 3.190 ug/L
RT: 8.399 min Scan# 211
Delta R.T. -0.000 min
Lab File: VU055002.D
Acq: 30 Aug 2023 16:28

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 97 Resp: 25358

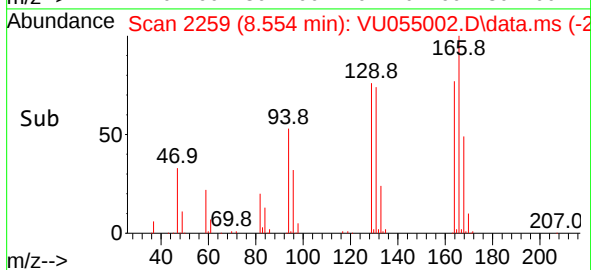
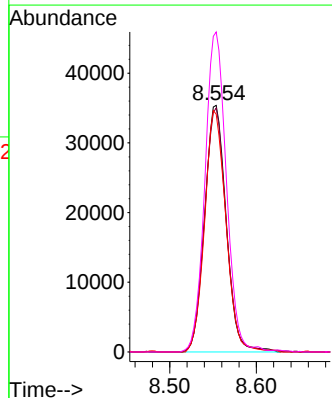
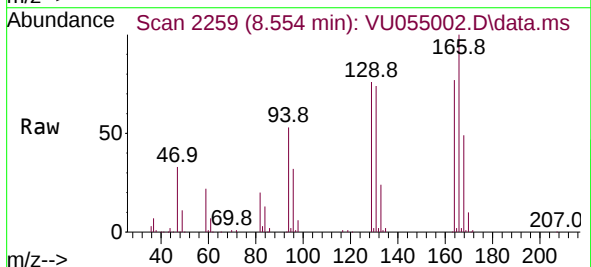
Ion	Ratio	Lower	Upper
97	100		
99	58.9	41.5	77.1
83	87.6	59.8	111.1
85	58.7	39.0	72.4

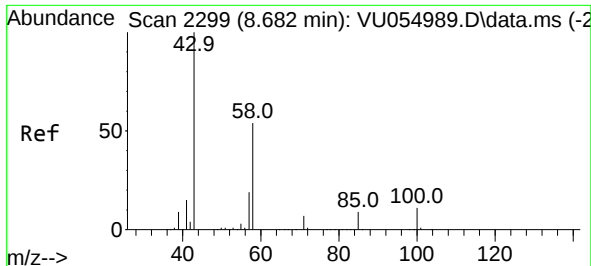


#47
Tetrachloroethene
Concen: 7.278 ug/L
RT: 8.554 min Scan# 2259
Delta R.T. 0.003 min
Lab File: VU055002.D
Acq: 30 Aug 2023 16:28

Tgt Ion: 164 Resp: 61226

Ion	Ratio	Lower	Upper
164	100		
129	99.0	72.8	135.2
131	96.4	70.7	131.3
166	129.8	95.9	178.1





#48

2-Hexanone

Concen: 2.866 ug/L

RT: 8.689 min Scan# 21

Delta R.T. 0.006 min

Lab File: VU055002.D

Acq: 30 Aug 2023 16:28

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 43 Resp: 13933

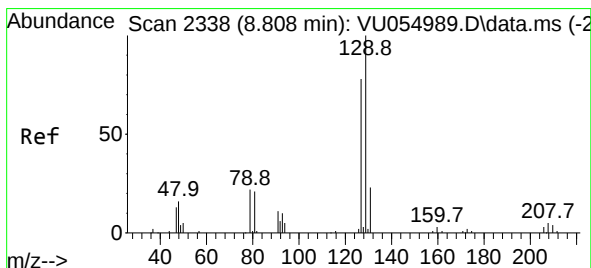
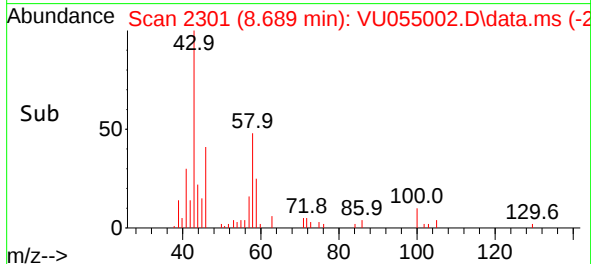
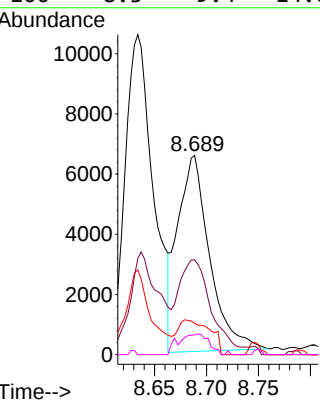
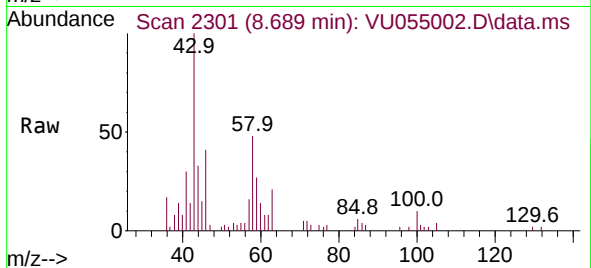
Ion Ratio Lower Upper

43 100

58 44.2 44.0 66.0

57 18.1 15.9 23.9

100 8.3 9.4 14.0#



#49

Dibromochloromethane

Concen: 6.588 ug/L

RT: 8.554 min Scan# 2259

Delta R.T. -0.254 min

Lab File: VU055002.D

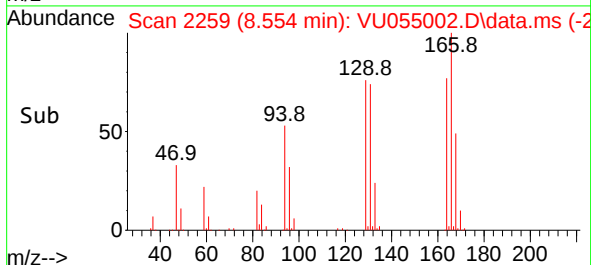
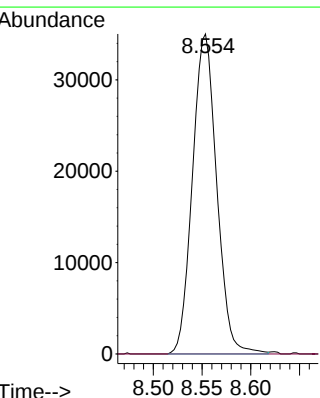
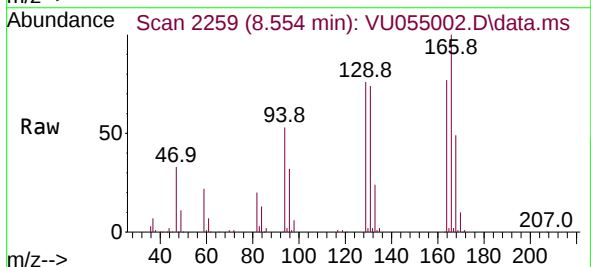
Acq: 30 Aug 2023 16:28

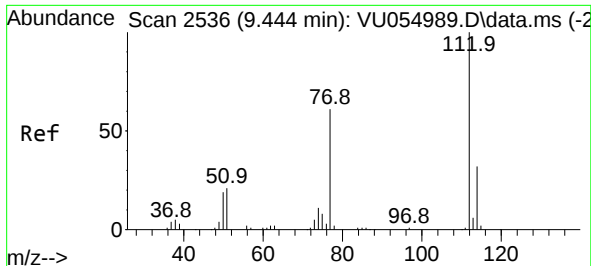
Tgt Ion: 129 Resp: 60660

Ion Ratio Lower Upper

129 100

127 0.0 60.5 112.5#

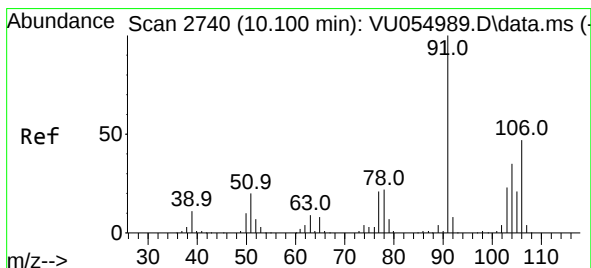
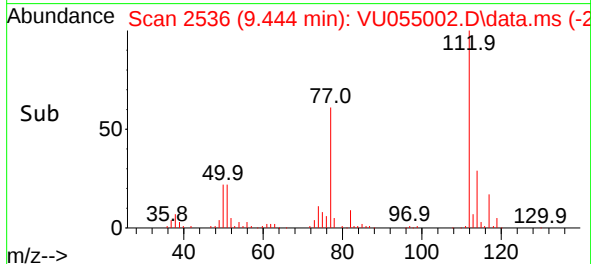
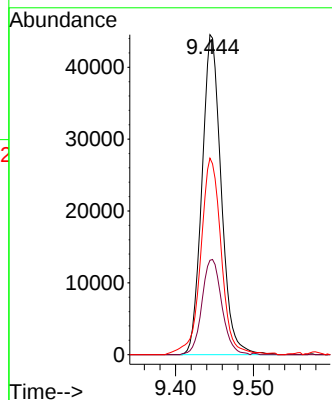
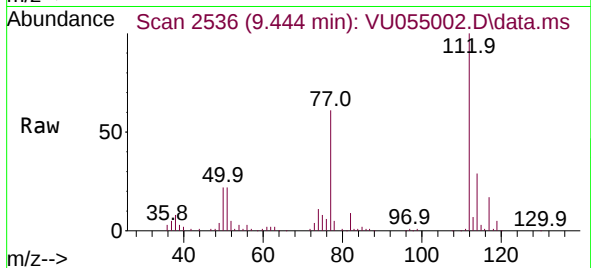




#51
Chlorobenzene
Concen: 2.507 ug/L
RT: 9.444 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU055002.D
Acq: 30 Aug 2023 16:28

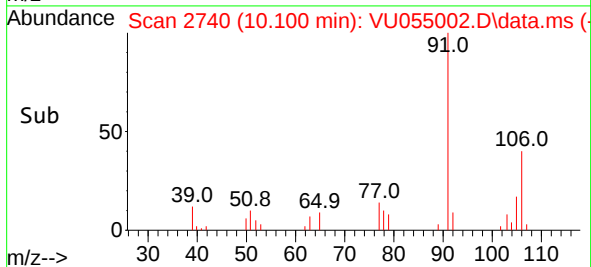
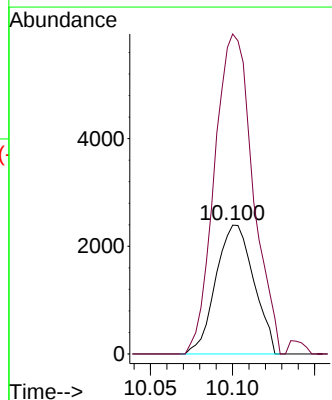
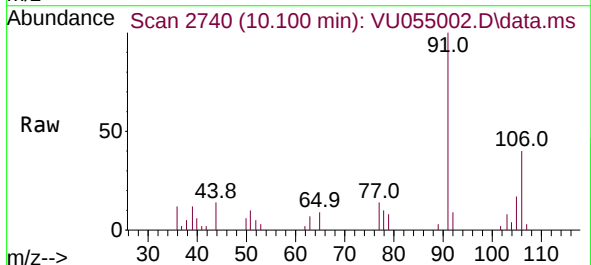
Instrument :
MSVOA_U
ClientSampleId :

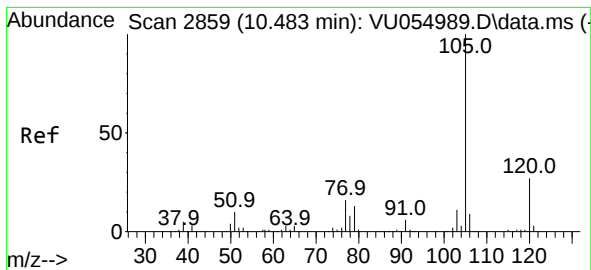
Tgt Ion:112 Resp: 76483
Ion Ratio Lower Upper
112 100
114 29.5 23.4 43.4
77 61.4 49.3 73.9



#54
o-Xylene
Concen: 0.203 ug/L
RT: 10.100 min Scan# 2740
Delta R.T. -0.000 min
Lab File: VU055002.D
Acq: 30 Aug 2023 16:28

Tgt Ion:106 Resp: 3848
Ion Ratio Lower Upper
106 100
91 248.4 154.2 286.4





#60

Isopropylbenzene

Concen: 0.339 ug/L

RT: 10.483 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU055002.D

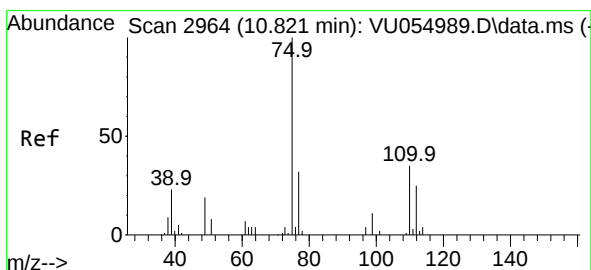
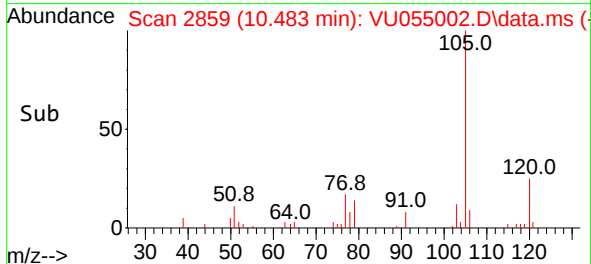
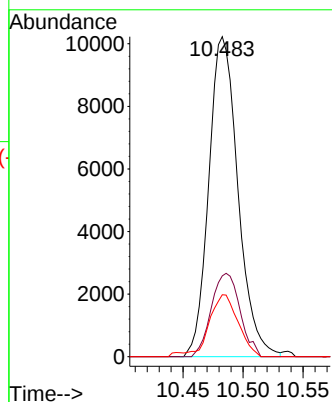
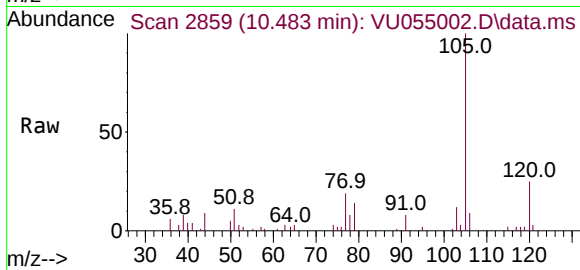
Acq: 30 Aug 2023 16:28

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	105	Resp:	17292
Ion Ratio	Lower	Upper	
105	100		
120	25.6	20.8	31.2
77	18.9	13.0	19.4



#61

1,2,3-Trichloropropane

Concen: 1.466 ug/L

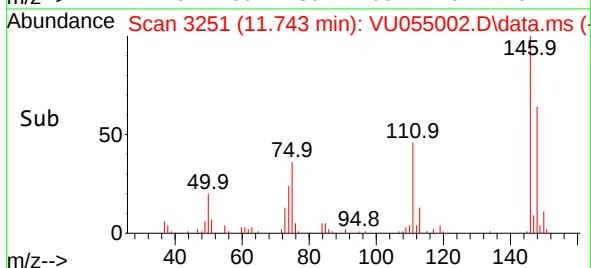
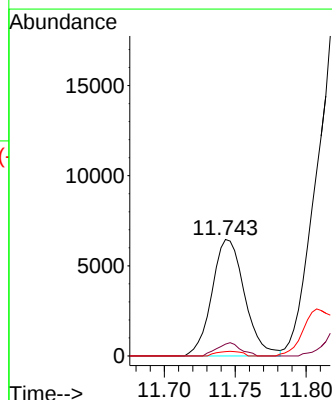
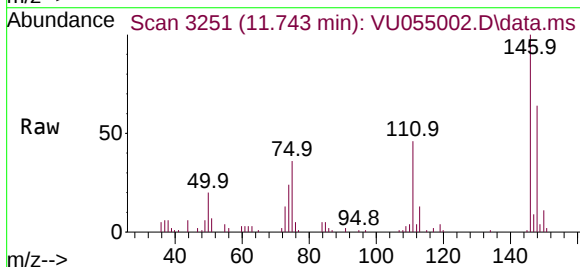
RT: 11.743 min Scan# 3251

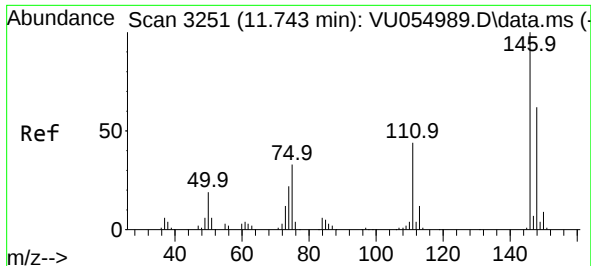
Delta R.T. 0.923 min

Lab File: VU055002.D

Acq: 30 Aug 2023 16:28

Tgt Ion:	75	Resp:	10370
Ion Ratio	Lower	Upper	
75	100		
110	8.2	29.0	43.6#
77	20.4	26.5	39.7#





#64

1,3-Dichlorobenzene

Concen: 1.235 ug/L

RT: 11.746 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU055002.D

Acq: 30 Aug 2023 16:28

Instrument :

MSVOA_U

ClientSampleId :

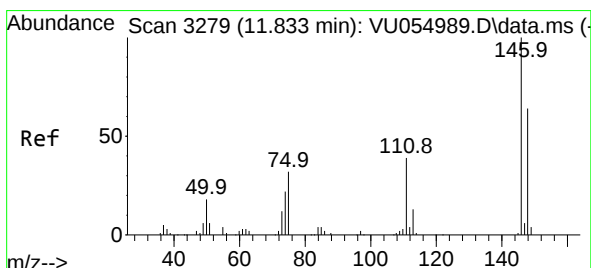
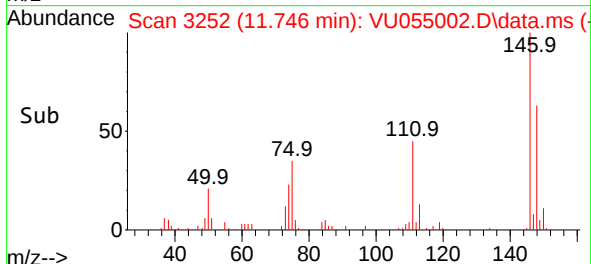
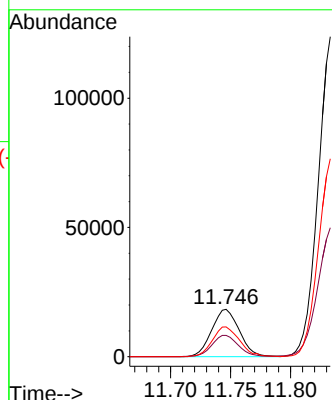
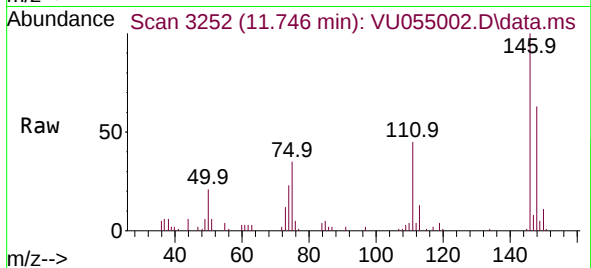
Tgt Ion:146 Resp: 29309

Ion Ratio Lower Upper

146 100

111 45.1 30.4 56.4

148 62.7 44.4 82.4



#65

1,4-Dichlorobenzene

Concen: 8.437 ug/L

RT: 11.833 min Scan# 3279

Delta R.T. -0.000 min

Lab File: VU055002.D

Acq: 30 Aug 2023 16:28

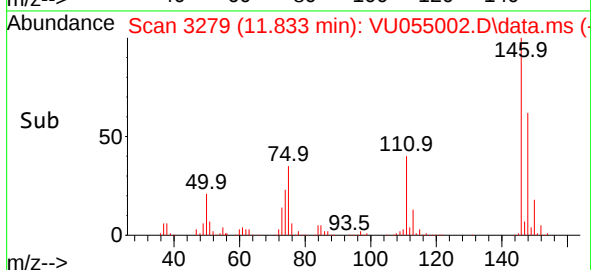
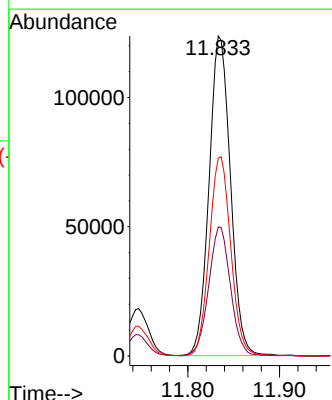
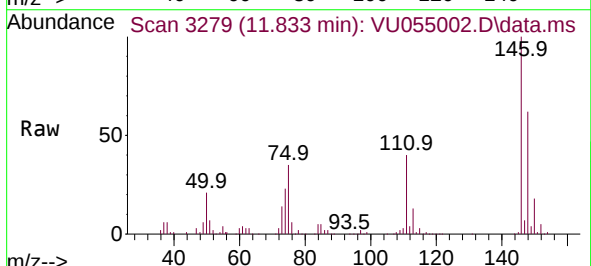
Tgt Ion:146 Resp: 200283

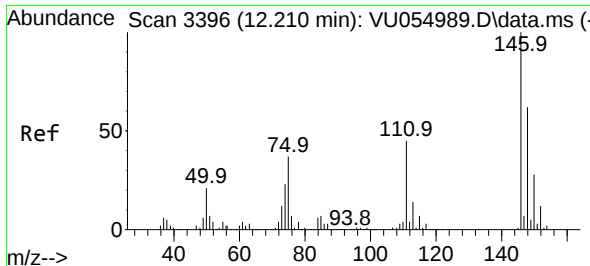
Ion Ratio Lower Upper

146 100

111 40.3 29.9 55.5

148 61.9 44.7 83.1





#67

1,2-Dichlorobenzene

Concen: 6.726 ug/L

RT: 12.213 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU055002.D

Acq: 30 Aug 2023 16:28

Instrument :

MSVOA_U

ClientSampleId :

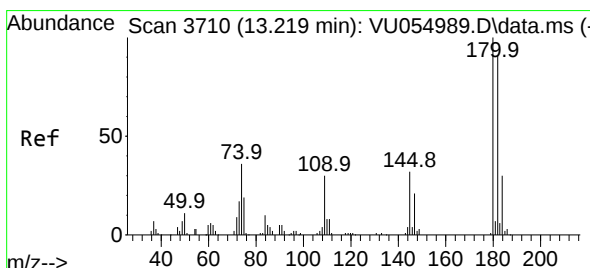
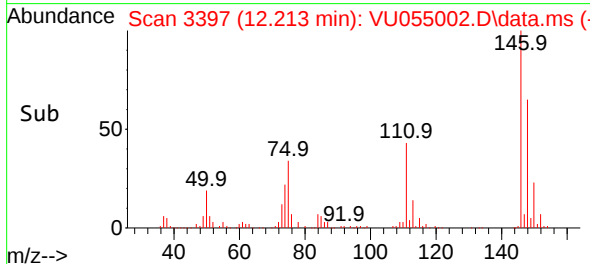
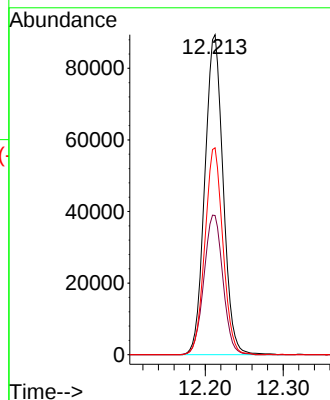
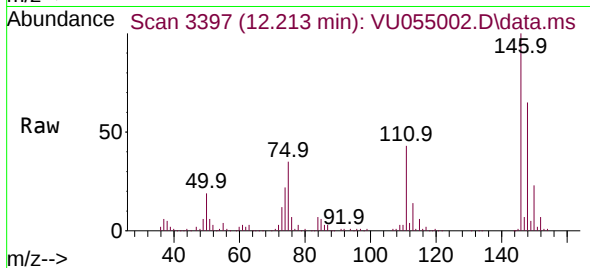
Tgt Ion:146 Resp: 145478

Ion Ratio Lower Upper

146 100

111 43.5 34.9 52.3

148 64.6 49.4 74.0



#69

1,3,5-Trichlorobenzene

Concen: 258.662 ug/L

RT: 13.839 min Scan# 3903

Delta R.T. 0.620 min

Lab File: VU055002.D

Acq: 30 Aug 2023 16:28

Tgt Ion:180 Resp: 4092124

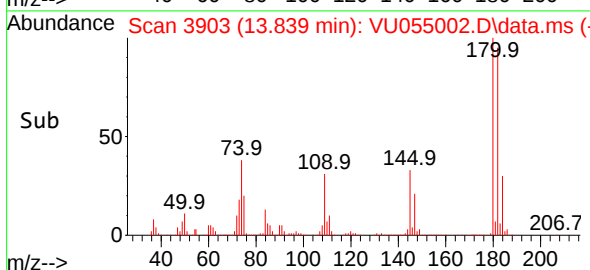
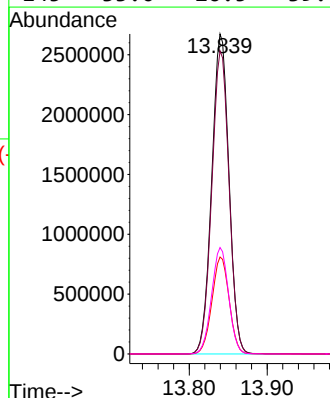
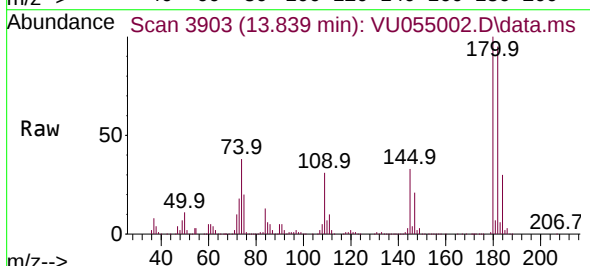
Ion Ratio Lower Upper

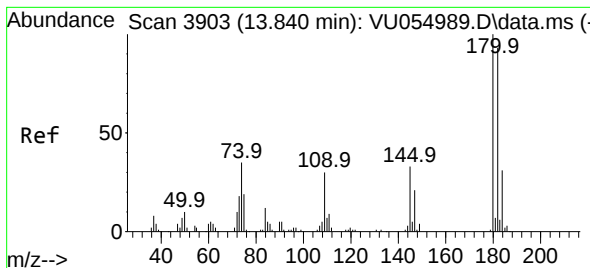
180 100

182 95.1 76.6 114.8

184 30.4 23.6 35.4

145 33.0 26.5 39.7





#70

1,2,4-trichlorobenzene

Concen: 330.254 ug/L

RT: 13.839 min Scan# 3903

Delta R.T. -0.000 min

Lab File: VU055002.D

Acq: 30 Aug 2023 16:28

Instrument :

MSVOA_U

ClientSampleId :

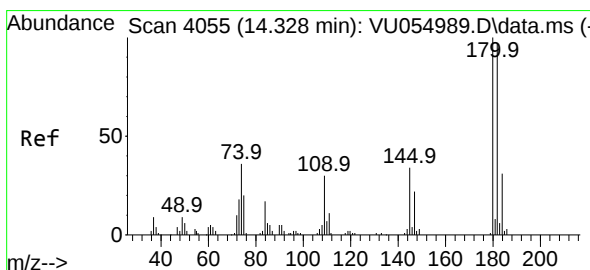
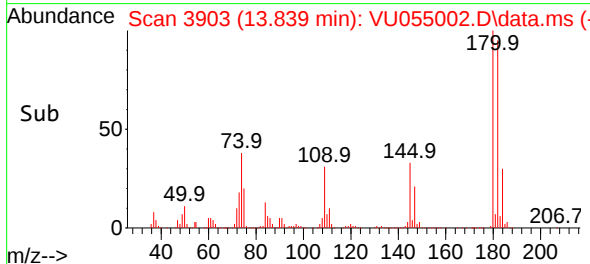
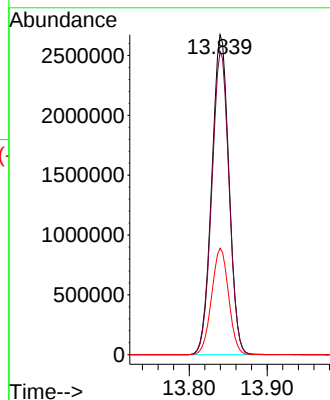
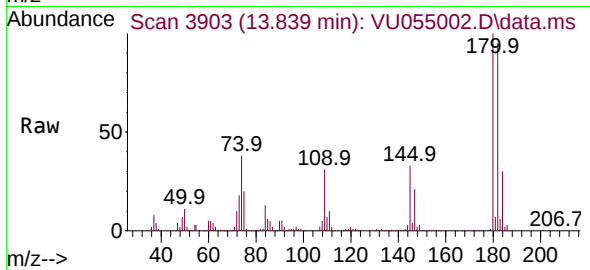
Tgt Ion:180 Resp: 4092124

Ion Ratio Lower Upper

180 100

182 95.1 74.9 112.3

145 33.0 25.8 38.8



#72

1,2,3-Trichlorobenzene

Concen: 94.312 ug/L

RT: 14.328 min Scan# 4055

Delta R.T. -0.000 min

Lab File: VU055002.D

Acq: 30 Aug 2023 16:28

Tgt Ion:180 Resp: 968248

Ion Ratio Lower Upper

180 100

182 95.4 77.7 116.5

145 34.7 28.1 42.1

