

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100223\
 Data File : VU055610.D
 Acq On : 02 Oct 2023 17:27
 Operator : MD/SY
 Sample : 04679-14 20X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 03 04:58:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR091923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Sep 27 23:33:30 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	151450	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	154528	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.811	152	80773	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.599	65	61771	4.035	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.800%
7) Chloroethane-d5	1.914	69	68453	5.075	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	101.400%
11) 1,1-Dichloroethene-d2	2.567	65	22648	3.595	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.800%
20) 2-Butanone-d5	4.631	46	148423	53.683	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.360%
24) Chloroform-d	5.058	84	128412	4.638	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.800%
26) 1,2-Dichloroethane-d4	5.701	65	66832	5.018	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.400%
32) Benzene-d6	5.724	84	238662	4.416	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.400%
36) 1,2-Dichloropropane-d6	6.689	67	78450	4.858	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.200%
41) Toluene-d8	7.898	98	195895	3.976	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.600%
43) trans-1,3-Dichloroprop...	8.180	79	25752	4.544	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.800%
46) 2-Hexanone-d5	8.634	63	86260	50.039	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.080%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	60924	5.034	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.600%
66) 1,2-Dichlorobenzene-d4	12.190	152	72381	4.440	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	11022	0.788	ug/L	84
12) 1,1-Dichloroethene	2.573	96	1969	0.186	ug/L #	1
16) Methylene chloride	3.046	84	11594	0.914	ug/L	89
18) trans-1,2-Dichloroethene	3.348	96	7013	0.657	ug/L	94
19) 1,1-Dichloroethane	3.866	63	35234	1.785	ug/L	99
22) cis-1,2-Dichloroethene	4.663	96	155332	12.553	ug/L	98
27) 1,2-Dichloroethane	5.798	62	3610	0.282	ug/L	100
33) Benzene	5.775	78	12137	0.273	ug/L	100
35) Methylcyclohexane	6.692	83	19392	1.070	ug/L #	20
37) 1,2-Dichloropropane	6.685	63	8477	0.729	ug/L #	90
39) cis-1,3-Dichloropropene	7.570	75	2314	0.149	ug/L #	48
48) 2-Hexanone	8.685	43	17663	4.319	ug/L #	81
51) Chlorobenzene	9.447	112	71312	2.347	ug/L	98
61) 1,2,3-Trichloropropane	11.743	75	25385	4.026	ug/L #	47
64) 1,3-Dichlorobenzene	11.743	146	75920	3.406	ug/L	97
65) 1,4-Dichlorobenzene	11.833	146	454239	20.392	ug/L	99
67) 1,2-Dichlorobenzene	12.212	146	7410	0.363	ug/L	96
69) 1,3,5-Trichlorobenzene	13.839	180	26714	1.741	ug/L	95
70) 1,2,4-trichlorobenzene	13.839	180	26714	2.283	ug/L	95

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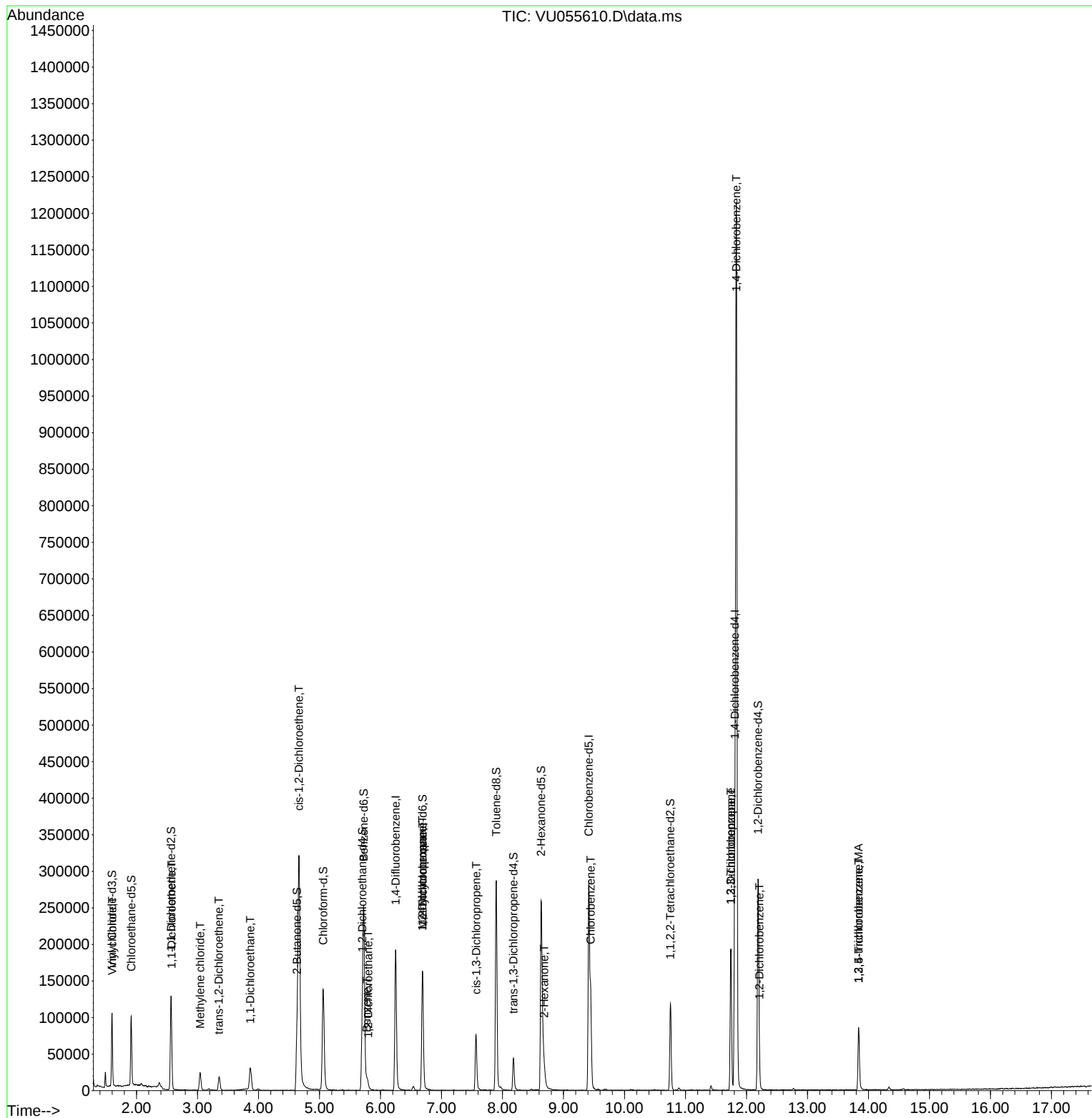
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

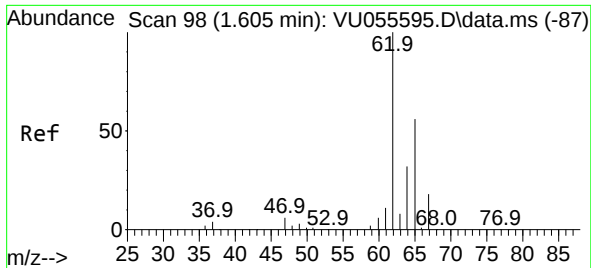
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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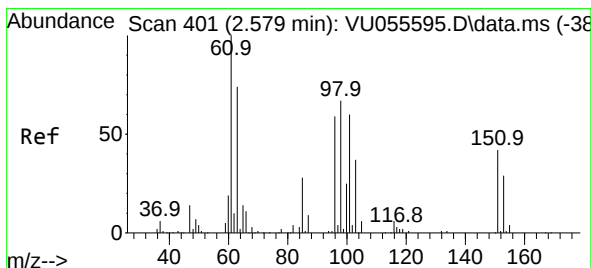
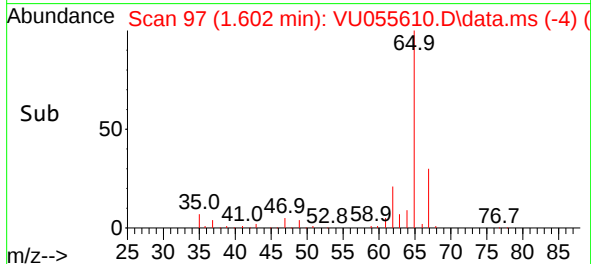
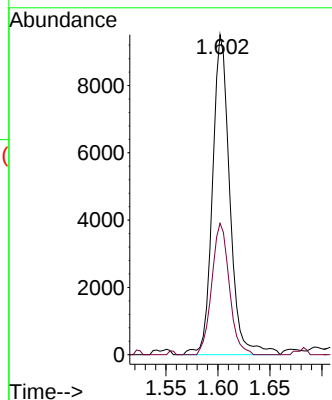
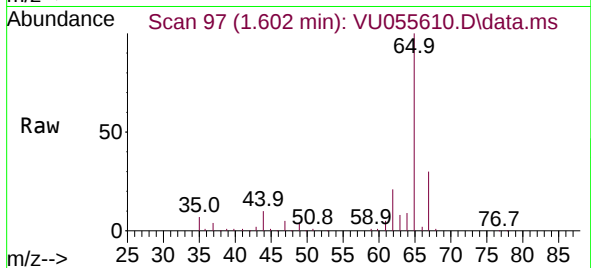




#5
 Vinyl chloride
 Concen: 0.788 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VU055610.D
 Acq: 02 Oct 2023 17:27

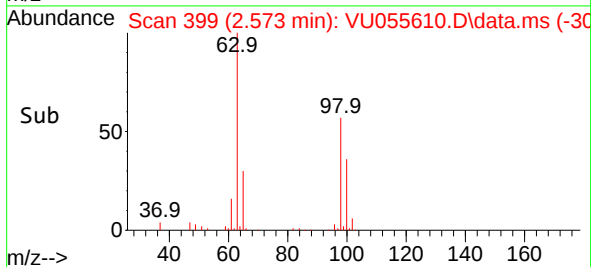
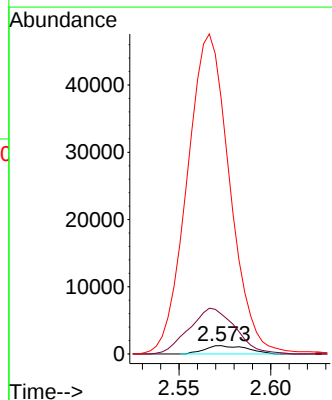
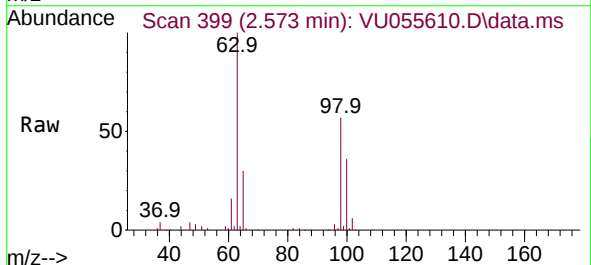
Instrument :
 MSVOA_U
 ClientSampleId :

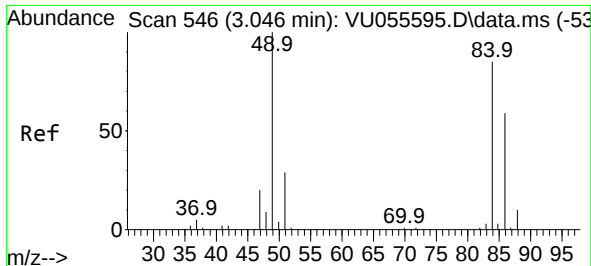
Tgt Ion: 62 Resp: 11022
 Ion Ratio Lower Upper
 62 100
 64 41.1 22.3 41.5



#12
 1,1-Dichloroethene
 Concen: 0.186 ug/L
 RT: 2.573 min Scan# 399
 Delta R.T. -0.004 min
 Lab File: VU055610.D
 Acq: 02 Oct 2023 17:27

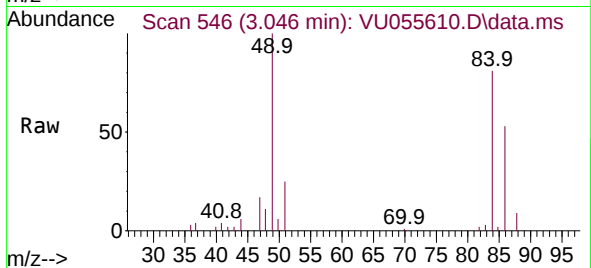
Tgt Ion: 96 Resp: 1969
 Ion Ratio Lower Upper
 96 100
 61 484.4 114.5 212.7#
 63 3093.8 98.3 182.5#





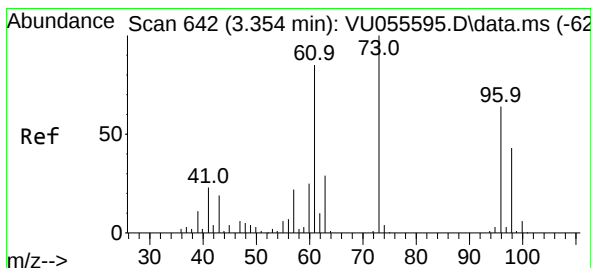
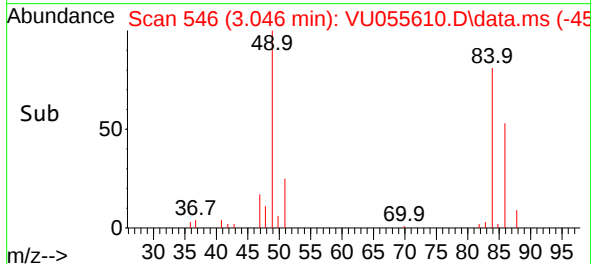
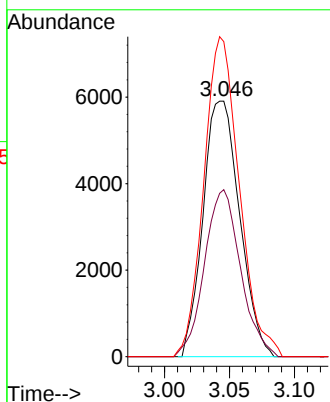
#16
Methylene chloride
Concen: 0.914 ug/L
RT: 3.046 min Scan# 54
Delta R.T. 0.003 min
Lab File: VU055610.D
Acq: 02 Oct 2023 17:27

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 84 Resp: 11594

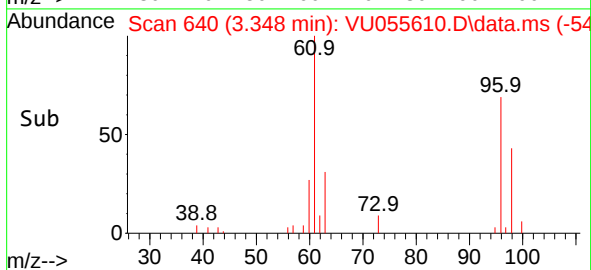
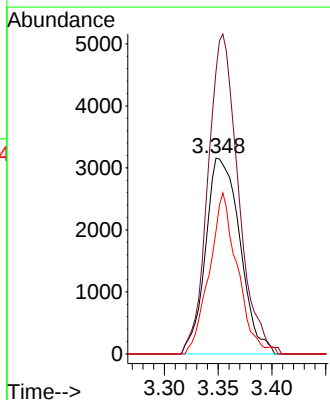
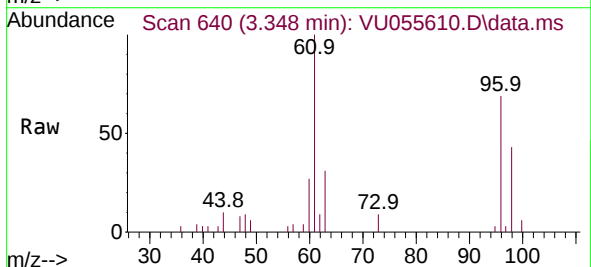
Ion	Ratio	Lower	Upper
84	100		
86	65.3	44.9	83.3
49	130.5	78.8	146.3

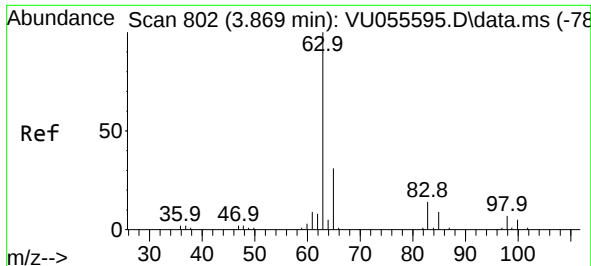


#18
trans-1,2-Dichloroethene
Concen: 0.657 ug/L
RT: 3.348 min Scan# 640
Delta R.T. -0.004 min
Lab File: VU055610.D
Acq: 02 Oct 2023 17:27

Tgt Ion: 96 Resp: 7013

Ion	Ratio	Lower	Upper
96	100		
61	144.2	94.6	175.6
98	62.6	45.7	84.9





#19

1,1-Dichloroethane

Concen: 1.785 ug/L

RT: 3.866 min Scan# 80

Delta R.T. -0.000 min

Lab File: VU055610.D

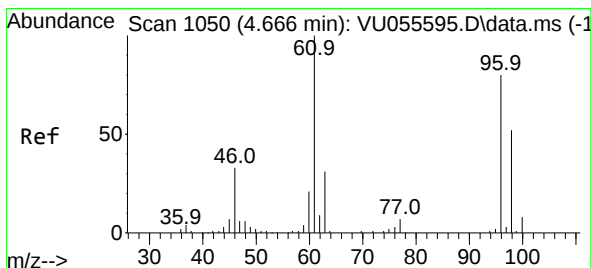
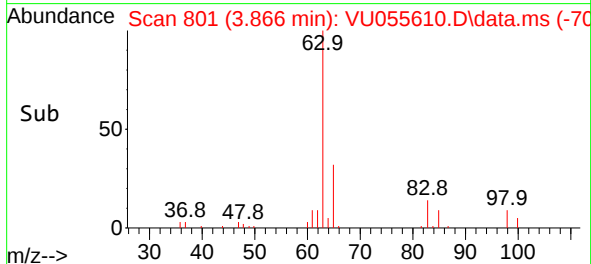
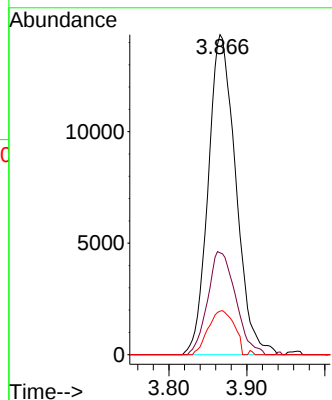
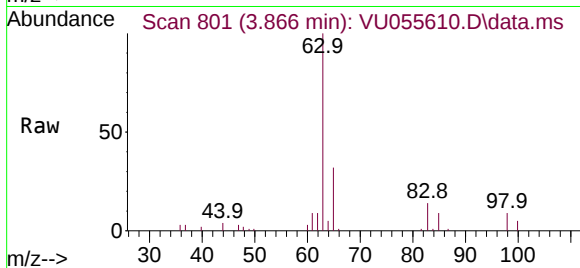
Acq: 02 Oct 2023 17:27

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	63	Resp:	35234
Ion	Ratio	Lower	Upper
63	100		
65	31.9	22.0	41.0
83	13.6	10.1	18.9



#22

cis-1,2-Dichloroethene

Concen: 12.553 ug/L

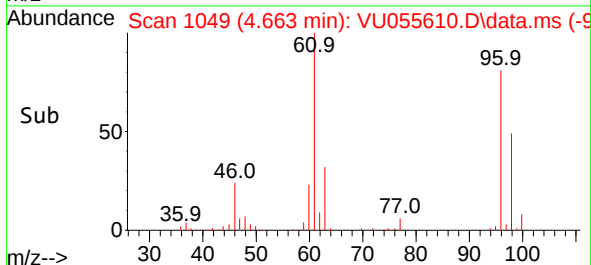
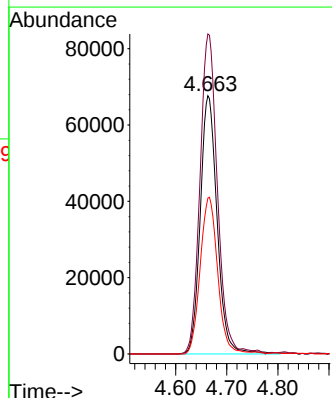
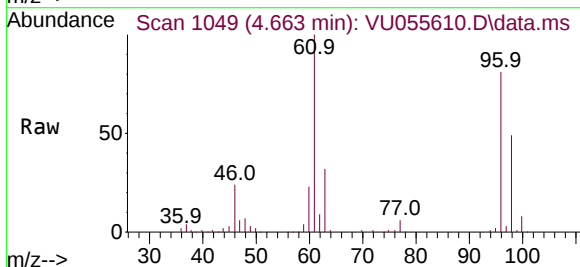
RT: 4.663 min Scan# 1049

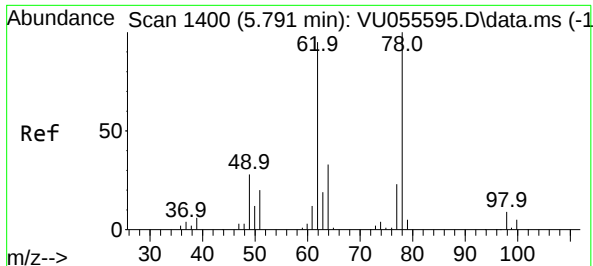
Delta R.T. -0.000 min

Lab File: VU055610.D

Acq: 02 Oct 2023 17:27

Tgt Ion:	96	Resp:	155332
Ion	Ratio	Lower	Upper
96	100		
61	123.9	87.8	163.2
98	60.3	44.4	82.4

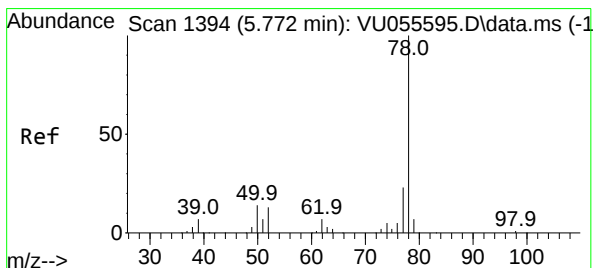
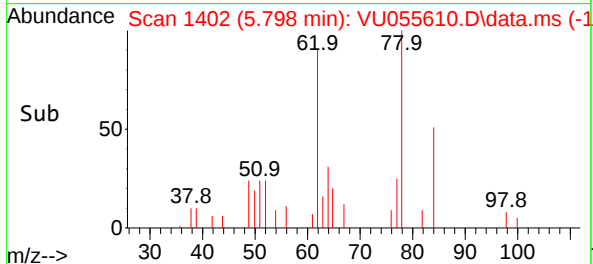
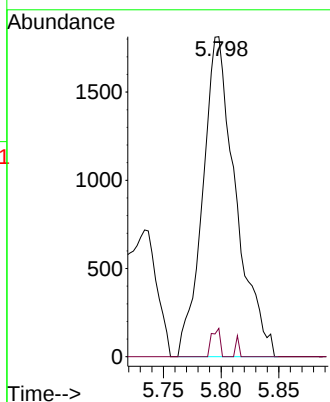
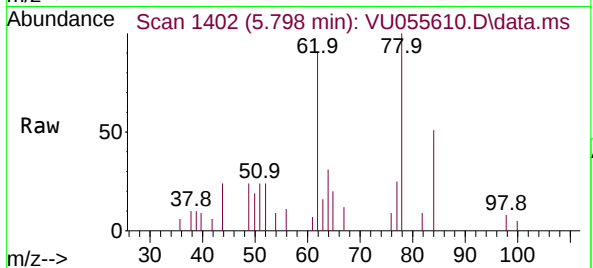




#27
 1,2-Dichloroethane
 Concen: 0.282 ug/L
 RT: 5.798 min Scan# 1400
 Delta R.T. 0.006 min
 Lab File: VU055610.D
 Acq: 02 Oct 2023 17:27

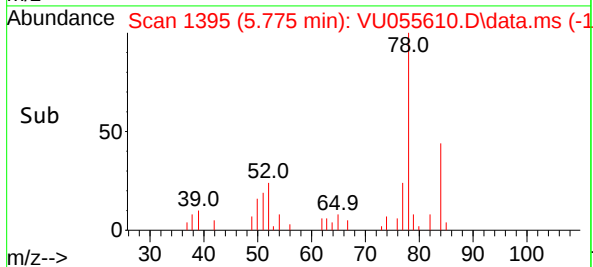
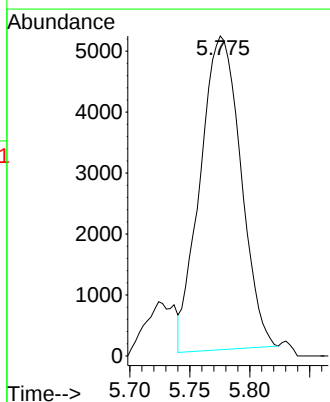
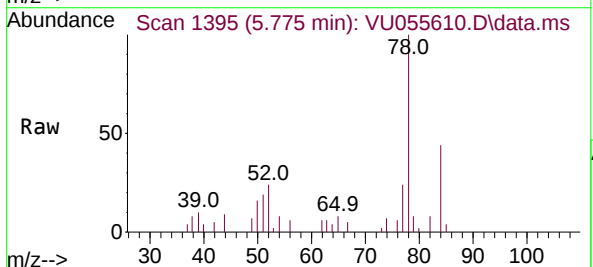
Instrument :
 MSVOA_U
 ClientSampleId :

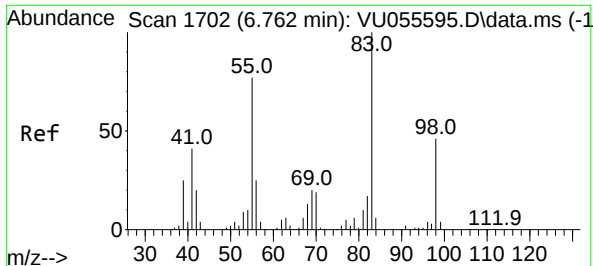
Tgt Ion: 62 Resp: 3610
 Ion Ratio Lower Upper
 62 100
 98 8.9 7.0 10.4



#33
 Benzene
 Concen: 0.273 ug/L
 RT: 5.775 min Scan# 1395
 Delta R.T. 0.003 min
 Lab File: VU055610.D
 Acq: 02 Oct 2023 17:27

Tgt Ion: 78 Resp: 12137





#35

Methylcyclohexane

Concen: 1.070 ug/L

RT: 6.692 min Scan# 1

Delta R.T. -0.068 min

Lab File: VU055610.D

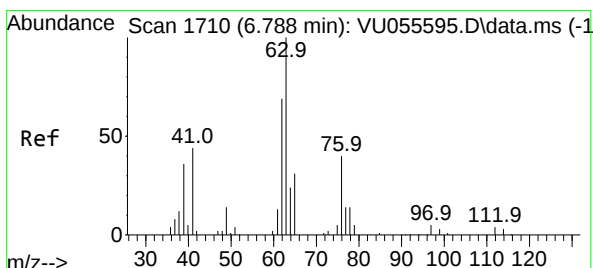
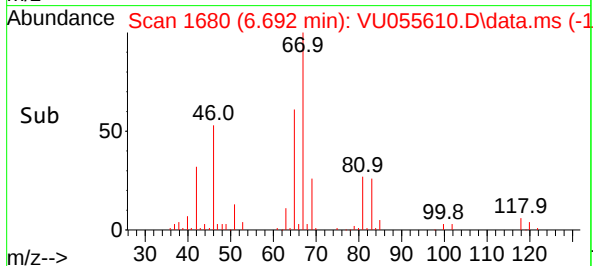
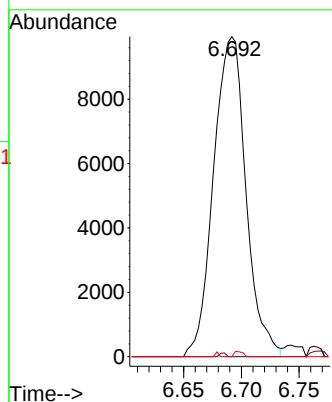
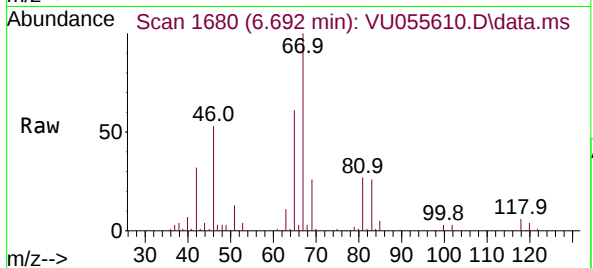
Acq: 02 Oct 2023 17:27

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	83	Resp:	19392
Ion Ratio	Lower	Upper	
83	100		
55	0.2	59.1	88.7#
98	0.4	36.3	54.5#



#37

1,2-Dichloropropane

Concen: 0.729 ug/L

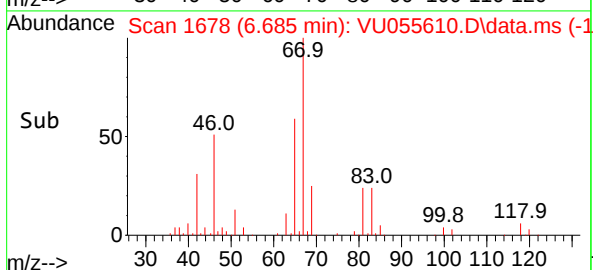
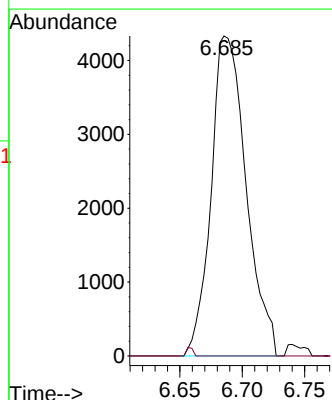
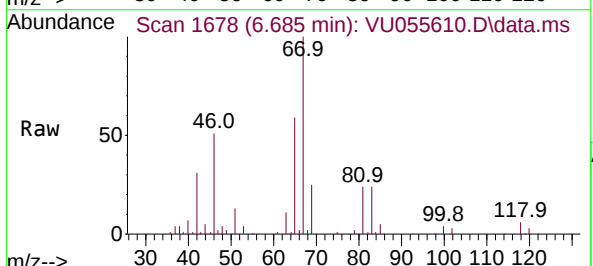
RT: 6.685 min Scan# 1678

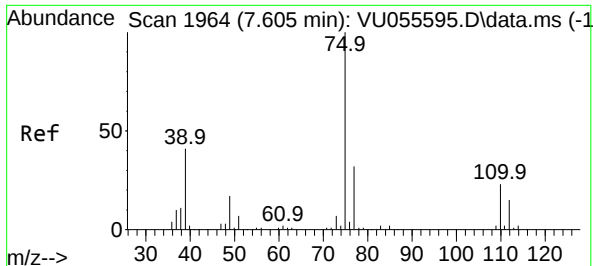
Delta R.T. -0.103 min

Lab File: VU055610.D

Acq: 02 Oct 2023 17:27

Tgt Ion:	63	Resp:	8477
Ion Ratio	Lower	Upper	
63	100		
112	0.5	3.0	4.6#





#39

cis-1,3-Dichloropropene

Concen: 0.149 ug/L

RT: 7.570 min Scan# 1964

Delta R.T. -0.036 min

Lab File: VU055610.D

Acq: 02 Oct 2023 17:27

Instrument :

MSVOA_U

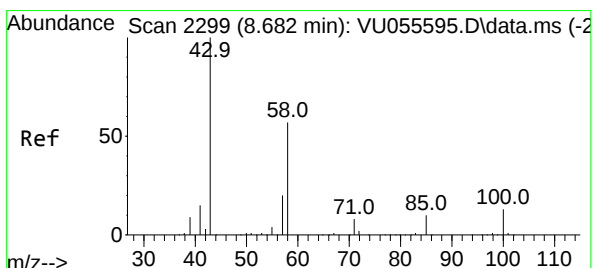
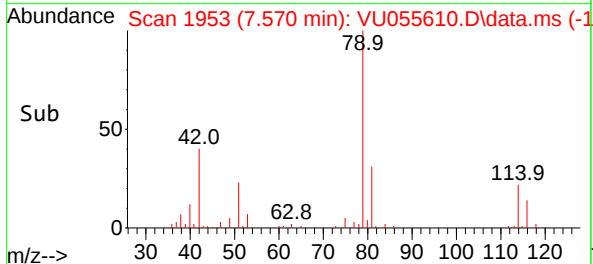
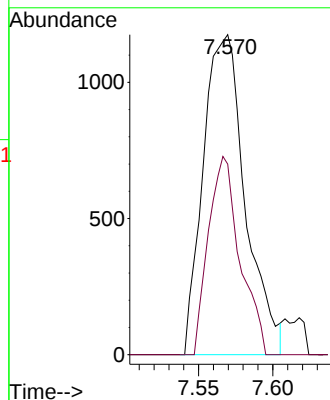
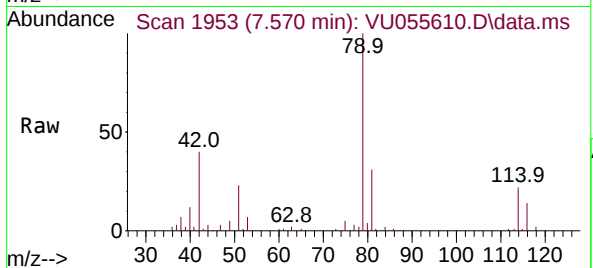
ClientSampleId :

Tgt Ion: 75 Resp: 2314

Ion Ratio Lower Upper

75 100

77 59.6 21.6 40.2#



#48

2-Hexanone

Concen: 4.319 ug/L

RT: 8.685 min Scan# 2300

Delta R.T. 0.003 min

Lab File: VU055610.D

Acq: 02 Oct 2023 17:27

Tgt Ion: 43 Resp: 17663

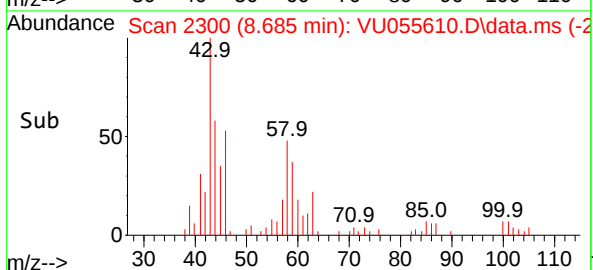
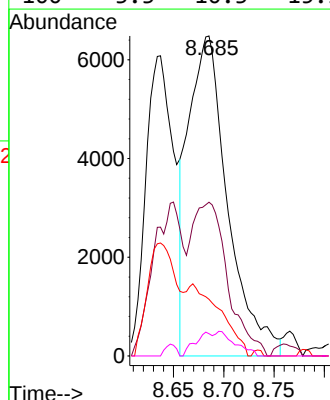
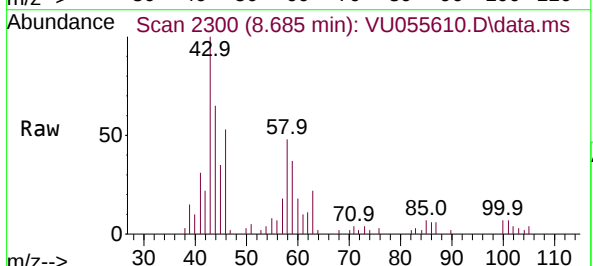
Ion Ratio Lower Upper

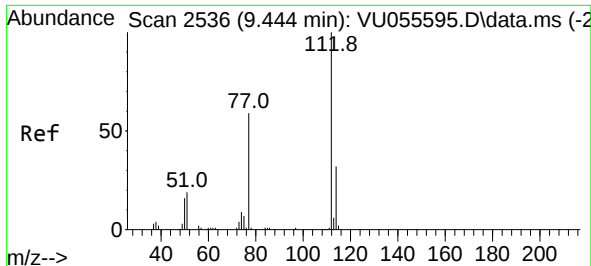
43 100

58 43.6 48.5 72.7#

57 18.0 17.0 25.4

100 3.3 10.3 15.5#

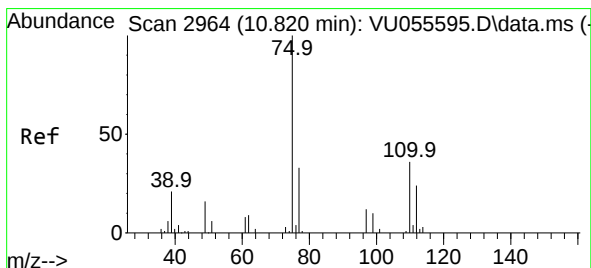
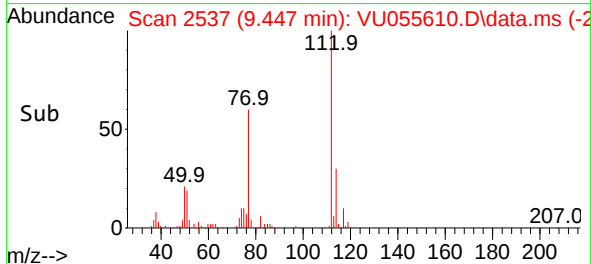
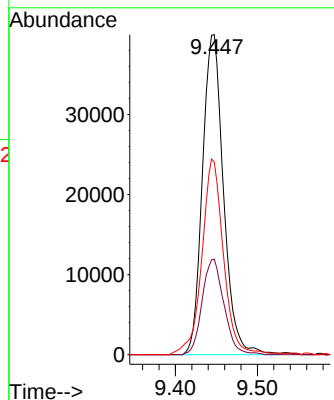
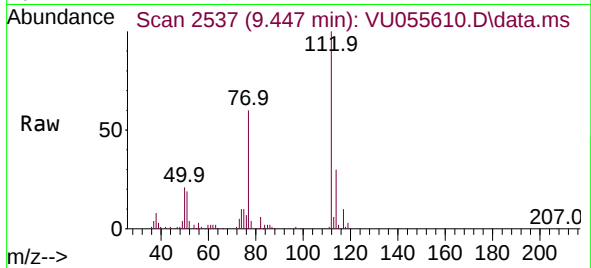




#51
Chlorobenzene
Concen: 2.347 ug/L
RT: 9.447 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU055610.D
Acq: 02 Oct 2023 17:27

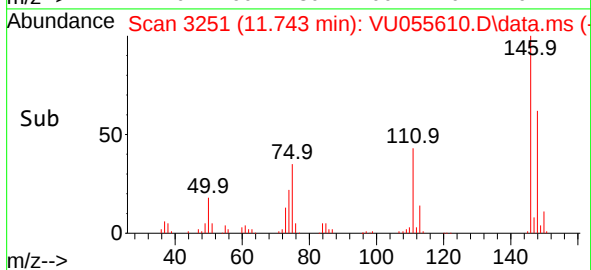
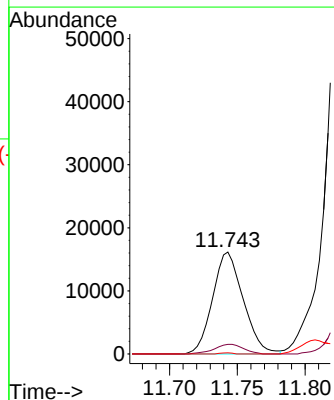
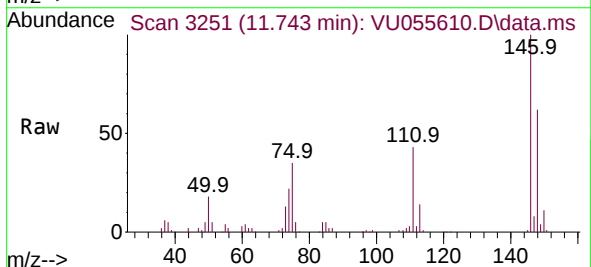
Instrument :
MSVOA_U
ClientSampleId :

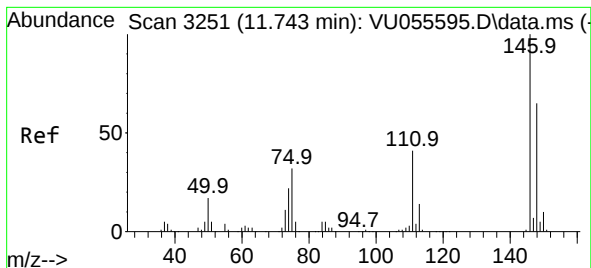
Tgt Ion:112 Resp: 71312
Ion Ratio Lower Upper
112 100
114 29.9 22.0 40.8
77 60.2 46.9 70.3



#61
1,2,3-Trichloropropane
Concen: 4.026 ug/L
RT: 11.743 min Scan# 3251
Delta R.T. 0.922 min
Lab File: VU055610.D
Acq: 02 Oct 2023 17:27

Tgt Ion: 75 Resp: 25385
Ion Ratio Lower Upper
75 100
110 9.0 30.6 45.8#
77 0.0 26.7 40.1#





#64

1,3-Dichlorobenzene

Concen: 3.406 ug/L

RT: 11.743 min Scan# 3251

Delta R.T. -0.000 min

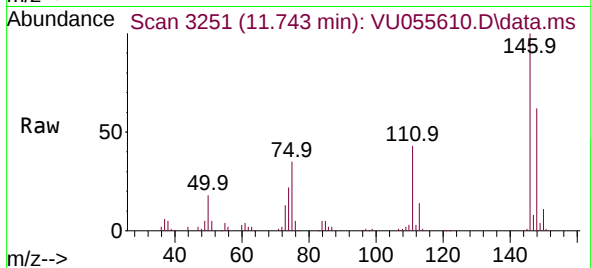
Lab File: VU055610.D

Acq: 02 Oct 2023 17:27

Instrument :

MSVOA_U

ClientSampleId :



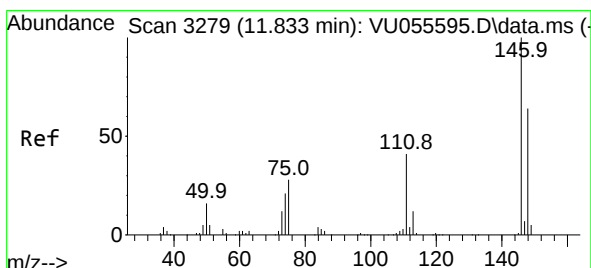
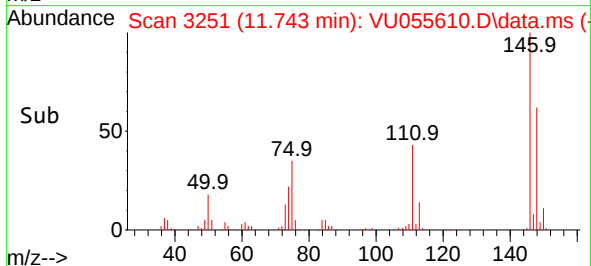
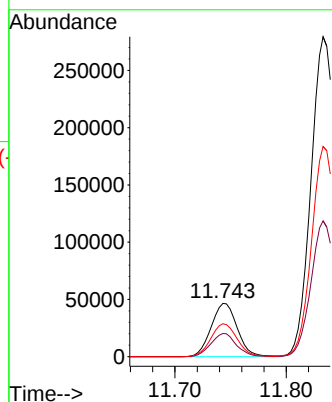
Tgt Ion:146 Resp: 75920

Ion Ratio Lower Upper

146 100

111 43.5 28.8 53.6

148 61.8 44.6 82.8



#65

1,4-Dichlorobenzene

Concen: 20.392 ug/L

RT: 11.833 min Scan# 3279

Delta R.T. -0.000 min

Lab File: VU055610.D

Acq: 02 Oct 2023 17:27

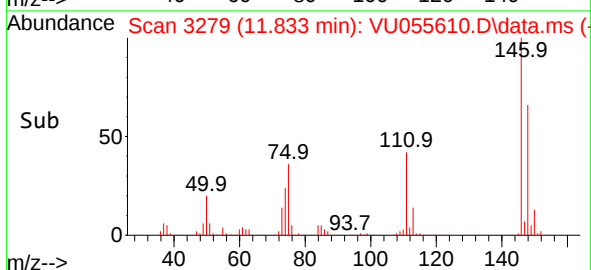
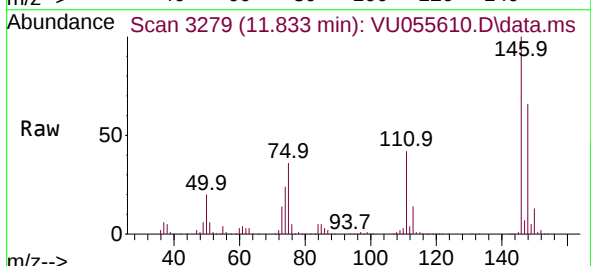
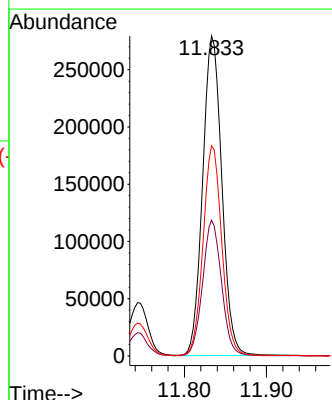
Tgt Ion:146 Resp: 454239

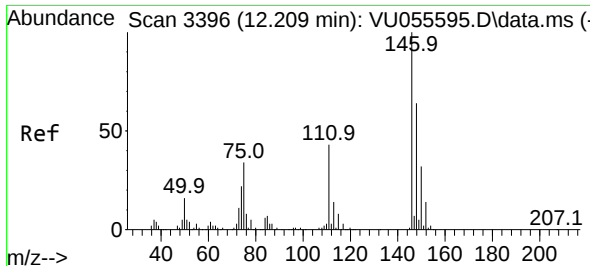
Ion Ratio Lower Upper

146 100

111 42.5 29.0 53.8

148 65.7 45.4 84.4





#67

1,2-Dichlorobenzene

Concen: 0.363 ug/L

RT: 12.212 min Scan# 31

Delta R.T. 0.003 min

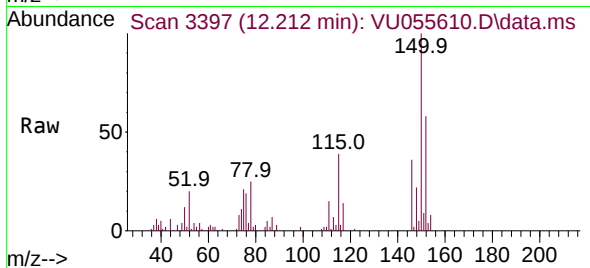
Lab File: VU055610.D

Acq: 02 Oct 2023 17:27

Instrument :

MSVOA_U

ClientSampleId :



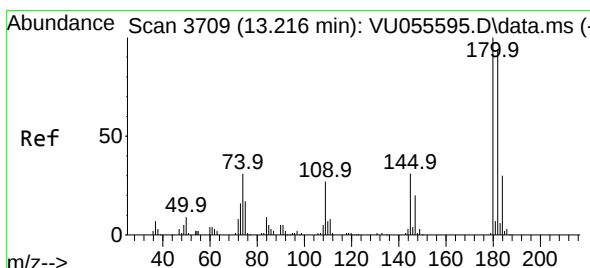
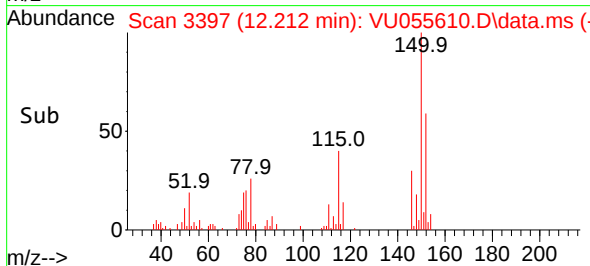
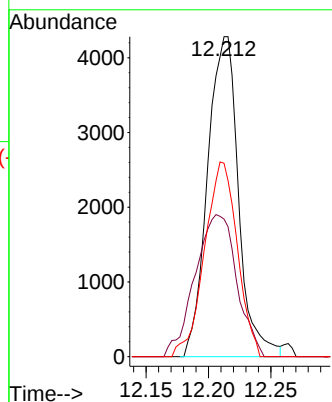
Tgt Ion:146 Resp: 7410

Ion Ratio Lower Upper

146 100

111 43.0 34.6 52.0

148 60.4 51.8 77.8



#69

1,3,5-Trichlorobenzene

Concen: 1.741 ug/L

RT: 13.839 min Scan# 3903

Delta R.T. 0.623 min

Lab File: VU055610.D

Acq: 02 Oct 2023 17:27

Tgt Ion:180 Resp: 26714

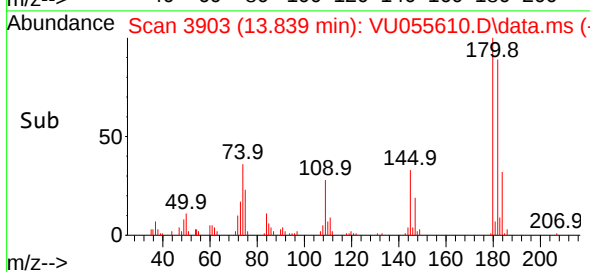
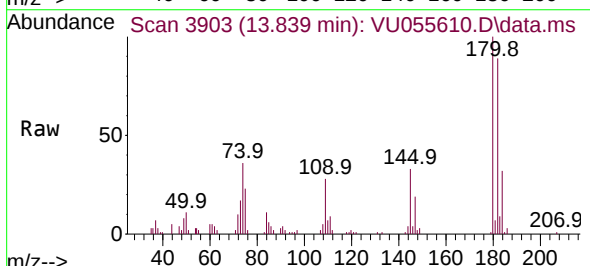
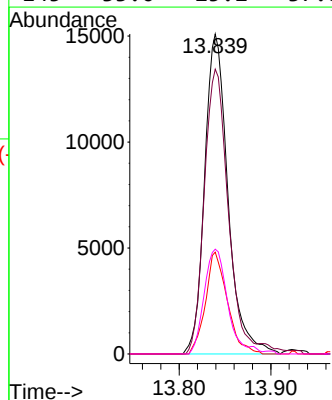
Ion Ratio Lower Upper

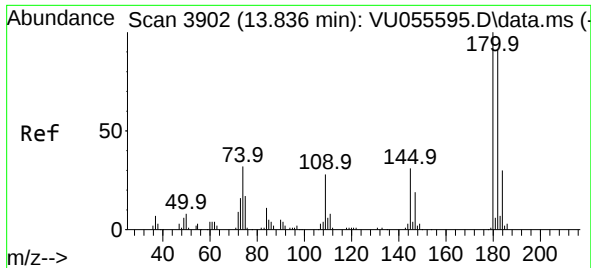
180 100

182 90.1 77.1 115.7

184 29.9 24.0 36.0

145 33.0 25.2 37.8





#70

1,2,4-trichlorobenzene

Concen: 2.283 ug/L

RT: 13.839 min Scan# 3903

Delta R.T. 0.003 min

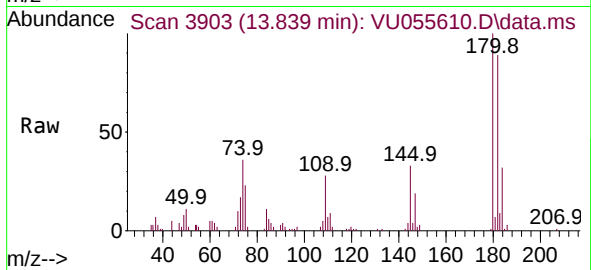
Lab File: VU055610.D

Acq: 02 Oct 2023 17:27

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 26714

Ion Ratio Lower Upper

180 100

182 90.1 76.4 114.6

145 33.0 25.4 38.0

