

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102523\
 Data File : VU055883.D
 Acq On : 25 Oct 2023 16:45
 Operator : MD/SY
 Sample : 04952-05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 26 01:54:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM101023WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 26 01:50:39 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	482106	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	491906	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	275409	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.599	65	243125	56.223	ug/L	0.00
Spiked Amount 50.000	Range 60	- 135	Recovery	=	112.440%	
7) Chloroethane-d5	1.885	69	197354	55.832	ug/L	-0.02
Spiked Amount 50.000	Range 70	- 130	Recovery	=	111.660%	
11) 1,1-Dichloroethene-d2	2.557	63	327288	42.447	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	=	84.900%	
21) 2-Butanone-d5	4.615	46	352481	110.005	ug/L	0.00
Spiked Amount 100.000	Range 40	- 130	Recovery	=	110.000%	
24) Chloroform-d	5.055	84	435511	52.534	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	105.060%	
26) 1,2-Dichloroethane-d4	5.695	65	277031	54.291	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	108.580%	
32) Benzene-d6	5.721	84	913993	58.073	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	116.140%	
36) 1,2-Dichloropropane-d6	6.685	67	279616	56.119	ug/L	0.00
Spiked Amount 50.000	Range 70	- 120	Recovery	=	112.240%	
41) Toluene-d8	7.894	98	809780	56.980	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	=	113.960%	
43) trans-1,3-Dichloroprop...	8.177	79	135803	56.739	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	=	113.480%	
47) 2-Hexanone-d5	8.630	63	341869	174.532	ug/L	0.00
Spiked Amount 100.000	Range 45	- 130	Recovery	=	174.530%#	
56) 1,1,2,2-Tetrachloroeth...	10.753	84	480852	62.698	ug/L	0.00
Spiked Amount 50.000	Range 65	- 120	Recovery	=	125.400%#	
66) 1,2-Dichlorobenzene-d4	12.190	152	351963	64.399	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	=	128.800%#	
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	2.560	101	3089	0.804	ug/L #	20
12) 1,1-Dichloroethene	2.560	96	2382	0.697	ug/L #	1
13) Acetone	2.621	43	26890	9.043	ug/L	99
18) Methyl tert-butyl Ether	3.354	73	140491	12.500	ug/L #	68
25) Chloroform	5.119	83	8498	1.135	ug/L #	25
27) 1,2-Dichloroethane	5.769	62	27625	4.613	ug/L #	84
29) Cyclohexane	5.383	56	69516	12.329	ug/L	98
33) Benzene	5.769	78	3514483	226.019	ug/L	100
35) Methylcyclohexane	6.756	83	79053	12.806	ug/L	92
38) Bromodichloromethane	7.151	83	8609	1.525	ug/L #	24
39) cis-1,3-Dichloropropene	7.560	75	8461	1.299	ug/L #	54
42) Toluene	7.968	91	47771	2.912	ug/L	99
44) trans-1,3-Dichloropropene	8.177	75	5842	0.937	ug/L #	62
46) Tetrachloroethene	8.553	164	5400	1.773	ug/L	88
48) 2-Hexanone	8.630	43	43240	8.594	ug/L #	68
49) Dibromochloromethane	8.550	129	5670	1.314	ug/L #	11
51) Chlorobenzene	9.444	112	737919	69.511	ug/L	100
52) Ethylbenzene	9.573	91	16817	0.938	ug/L	99
53) m,p-Xylene	9.695	106	16838	2.506	ug/L	91

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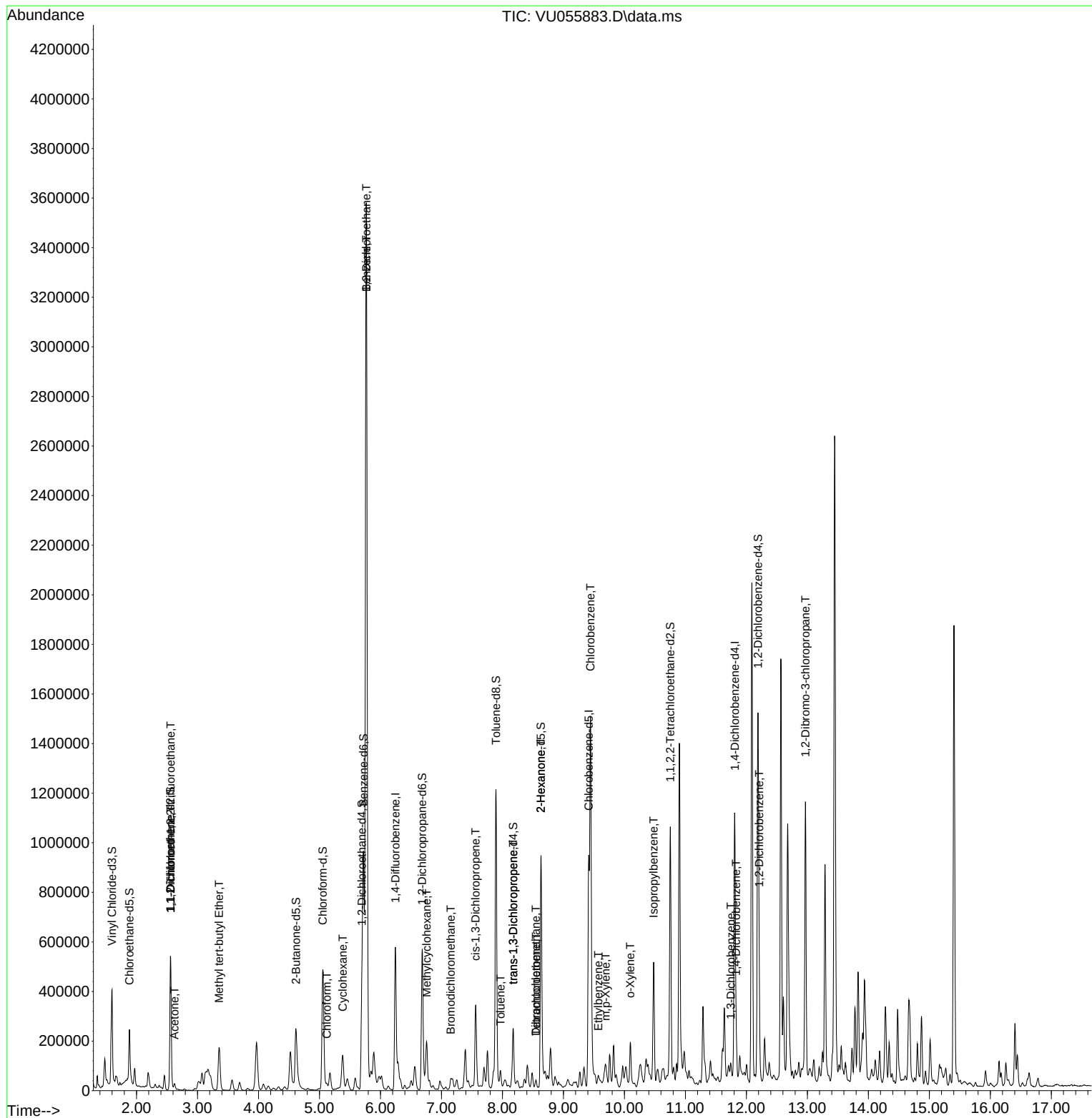
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.097	106	46482	7.148	ug/L	99
61) Isopropylbenzene	10.479	105	306403	17.846	ug/L	99
64) 1,3-Dichlorobenzene	11.746	146	15281	1.800	ug/L	88
65) 1,4-Dichlorobenzene	11.833	146	54662	6.264	ug/L	98
67) 1,2-Dichlorobenzene	12.209	146	28810	3.420	ug/L #	91
68) 1,2-Dibromo-3-chloropr...	12.968	75	4762	2.665	ug/L #	6

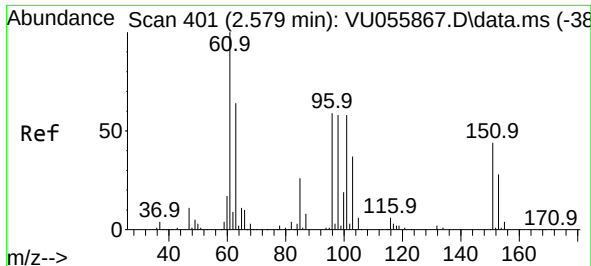
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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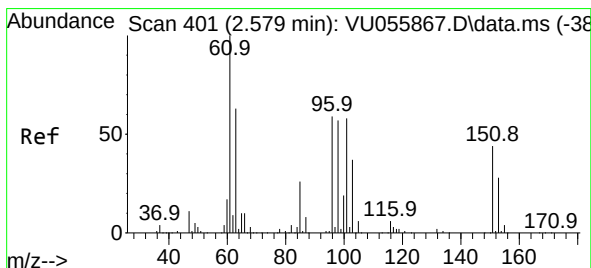
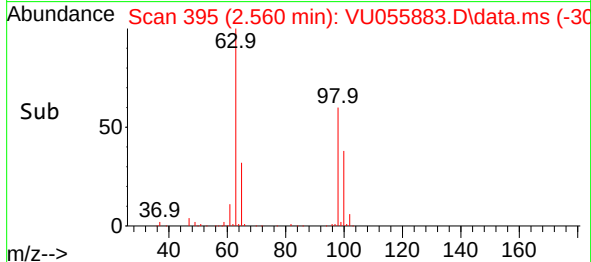
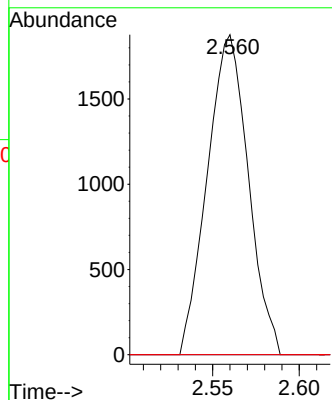
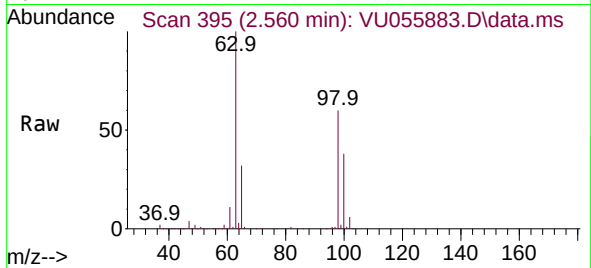




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.804 ug/L
 RT: 2.560 min Scan# 395
 Delta R.T. -0.019 min
 Lab File: VU055883.D
 Acq: 25 Oct 2023 16:45

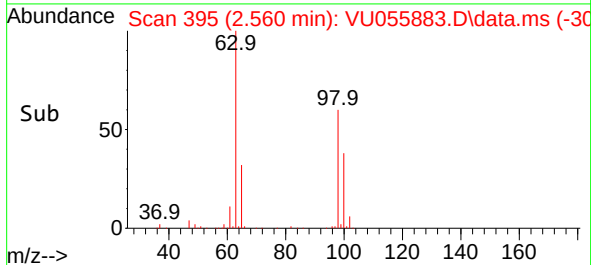
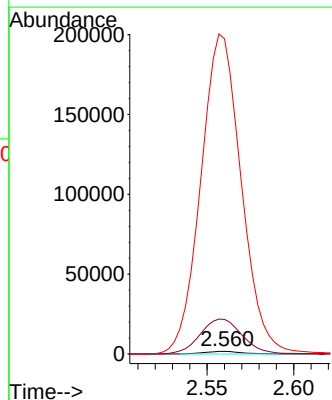
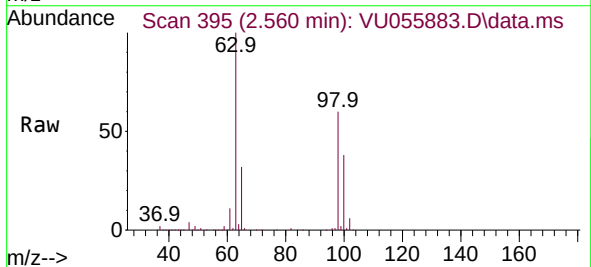
Instrument :
 MSVOA_U
 ClientSampleId :

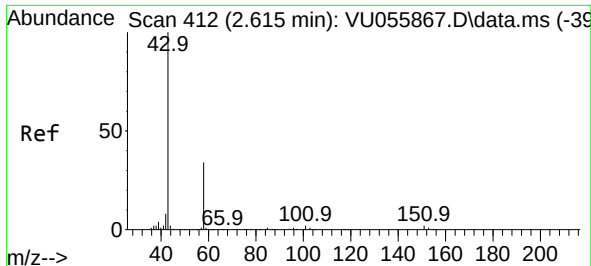
Tgt Ion:101 Resp: 3089
 Ion Ratio Lower Upper
 101 100
 85 0.0 37.1 55.7#
 151 0.0 58.2 87.4#



#12
 1,1-Dichloroethene
 Concen: 0.697 ug/L
 RT: 2.560 min Scan# 395
 Delta R.T. -0.019 min
 Lab File: VU055883.D
 Acq: 25 Oct 2023 16:45

Tgt Ion: 96 Resp: 2382
 Ion Ratio Lower Upper
 96 100
 61 1319.1 122.0 226.6#
 63 12017.0 93.7 174.1#





#13

Acetone

Concen: 9.043 ug/L

RT: 2.621 min Scan# 41

Delta R.T. 0.006 min

Lab File: VU055883.D

Acq: 25 Oct 2023 16:45

Instrument :

MSVOA_U

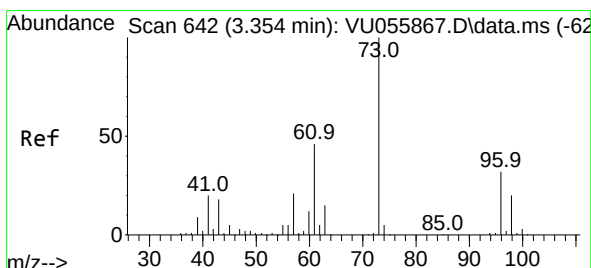
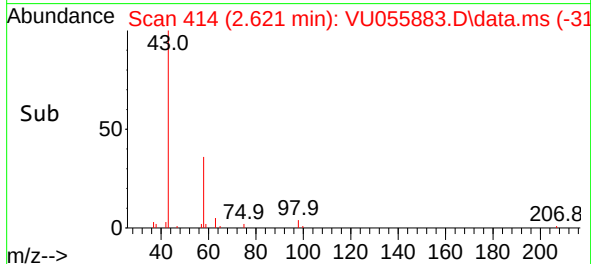
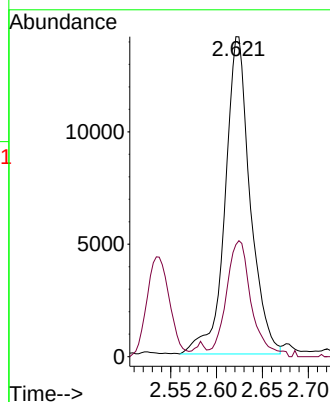
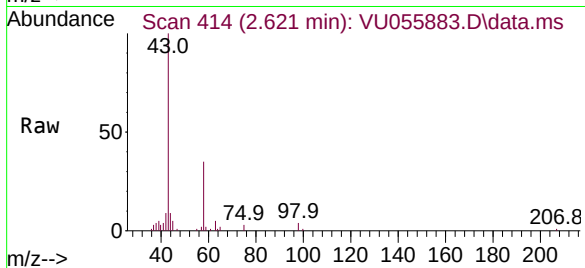
ClientSampleId :

Tgt Ion: 43 Resp: 26890

Ion Ratio Lower Upper

43 100

58 32.8 0.0 67.4



#18

Methyl tert-butyl Ether

Concen: 12.500 ug/L

RT: 3.354 min Scan# 642

Delta R.T. -0.000 min

Lab File: VU055883.D

Acq: 25 Oct 2023 16:45

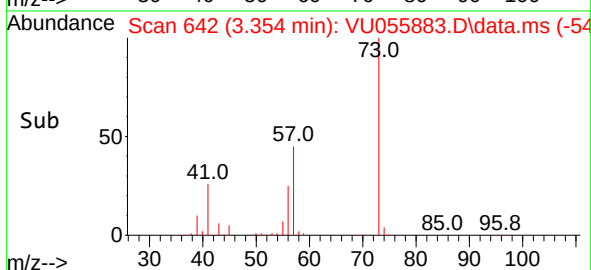
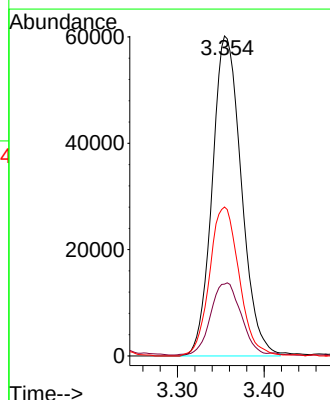
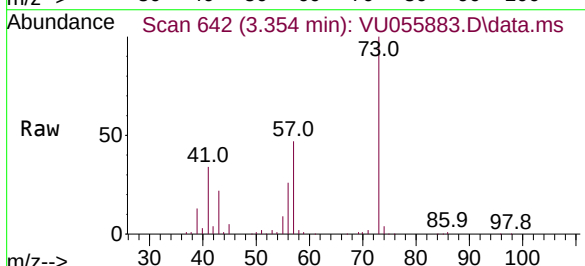
Tgt Ion: 73 Resp: 140491

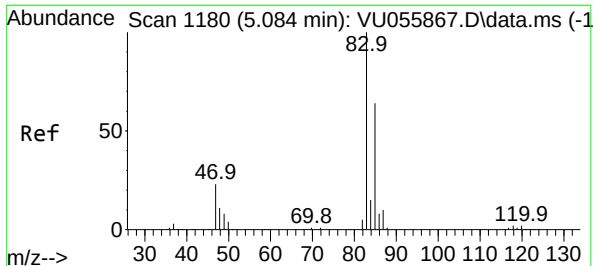
Ion Ratio Lower Upper

73 100

43 23.3 15.4 23.2#

57 47.4 17.7 26.5#

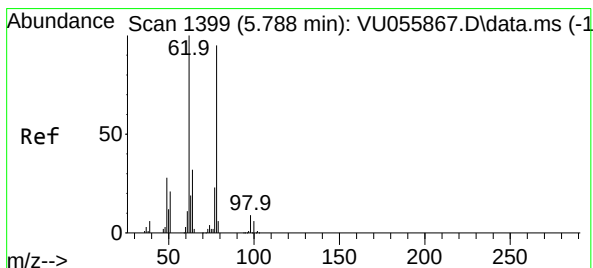
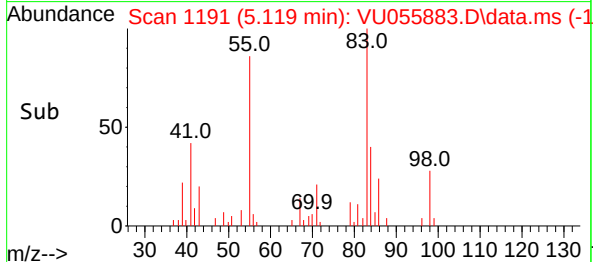
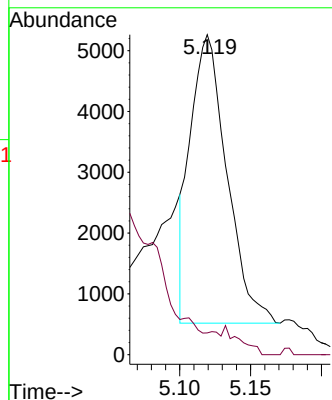
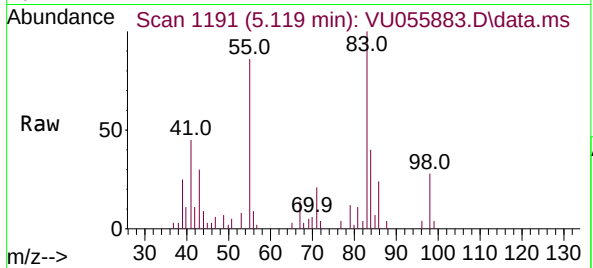




#25
Chloroform
Concen: 1.135 ug/L
RT: 5.119 min Scan# 1180
Delta R.T. 0.035 min
Lab File: VU055883.D
Acq: 25 Oct 2023 16:45

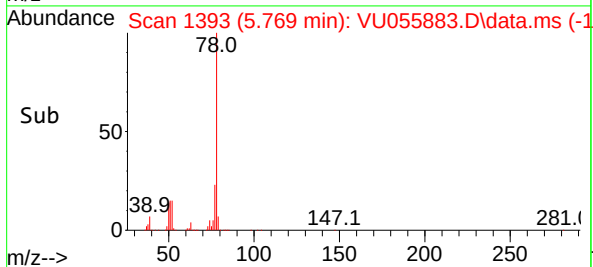
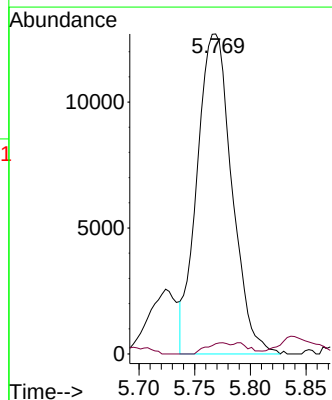
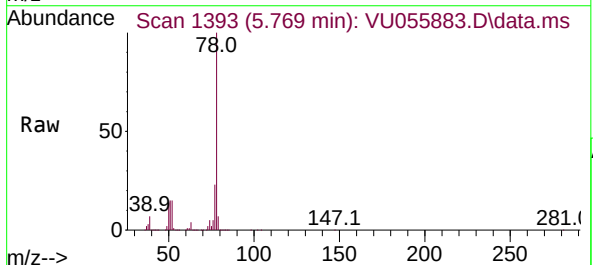
Instrument :
MSVOA_U
ClientSampleId :

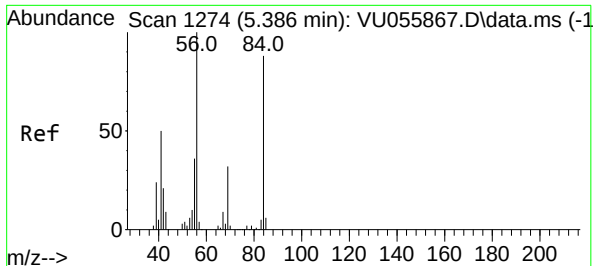
Tgt Ion: 83 Resp: 8498
Ion Ratio Lower Upper
83 100
85 6.8 46.3 86.1#



#27
1,2-Dichloroethane
Concen: 4.613 ug/L
RT: 5.769 min Scan# 1393
Delta R.T. -0.019 min
Lab File: VU055883.D
Acq: 25 Oct 2023 16:45

Tgt Ion: 62 Resp: 27625
Ion Ratio Lower Upper
62 100
98 3.2 7.2 10.8#





#29

Cyclohexane

Concen: 12.329 ug/L

RT: 5.383 min Scan# 1274

Delta R.T. -0.003 min

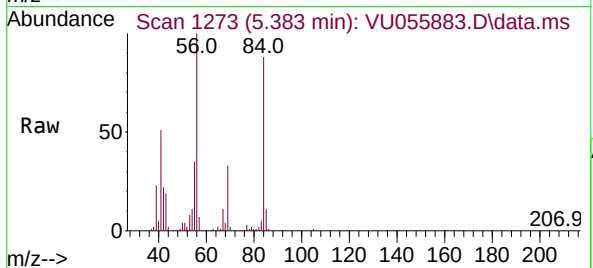
Lab File: VU055883.D

Acq: 25 Oct 2023 16:45

Instrument :

MSVOA_U

ClientSampleId :



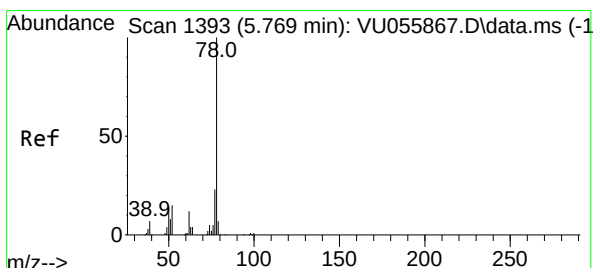
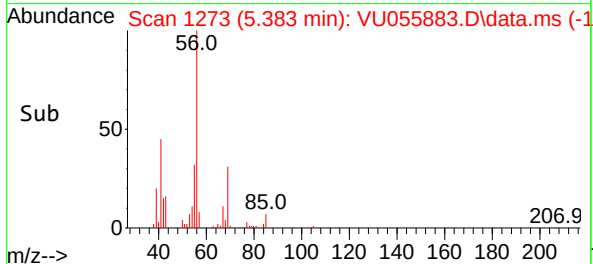
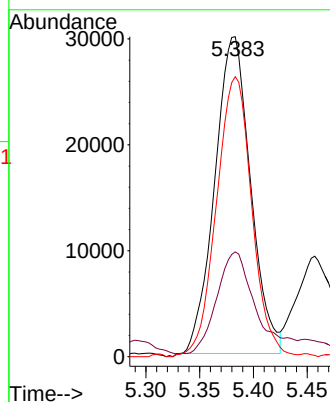
Tgt Ion: 56 Resp: 69516

Ion Ratio Lower Upper

56 100

69 33.5 24.9 37.3

84 86.8 70.7 106.1



#33

Benzene

Concen: 226.019 ug/L

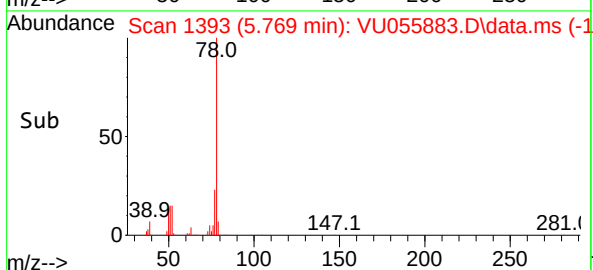
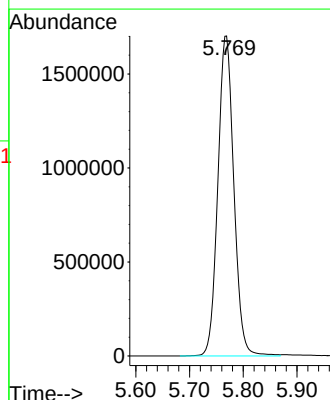
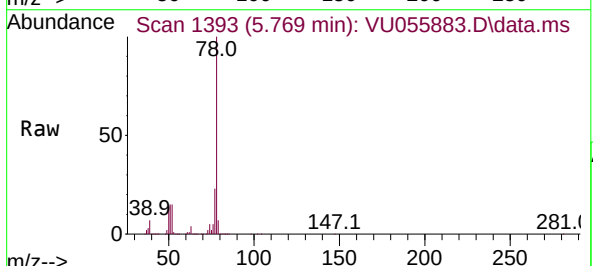
RT: 5.769 min Scan# 1393

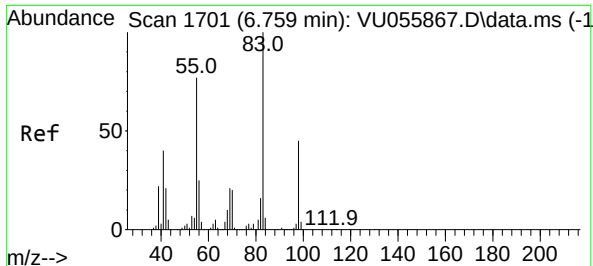
Delta R.T. -0.000 min

Lab File: VU055883.D

Acq: 25 Oct 2023 16:45

Tgt Ion: 78 Resp: 3514483





#35

Methylcyclohexane

Concen: 12.806 ug/L

RT: 6.756 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU055883.D

Acq: 25 Oct 2023 16:45

Instrument :

MSVOA_U

ClientSampleId :

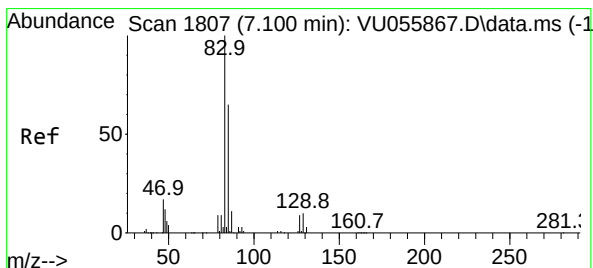
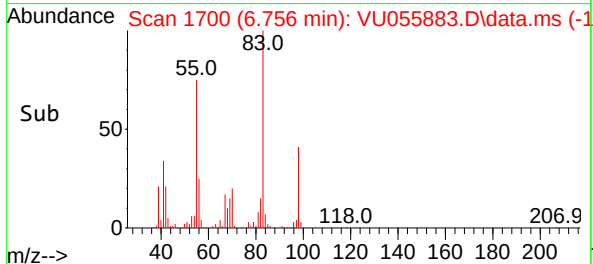
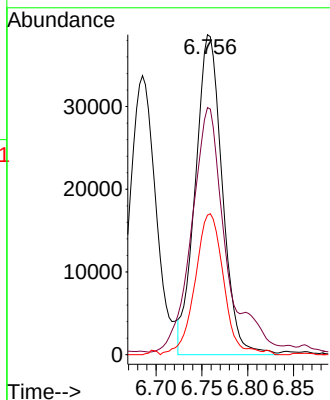
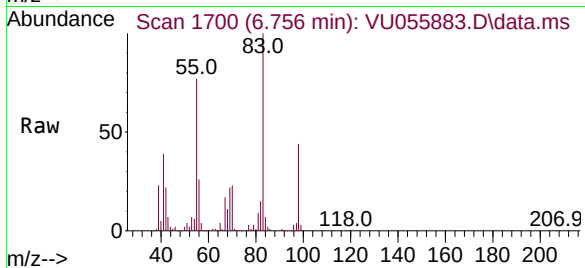
Tgt Ion: 83 Resp: 79053

Ion Ratio Lower Upper

83 100

55 86.4 61.2 91.8

98 45.6 35.8 53.6



#38

Bromodichloromethane

Concen: 1.525 ug/L

RT: 7.151 min Scan# 1823

Delta R.T. 0.051 min

Lab File: VU055883.D

Acq: 25 Oct 2023 16:45

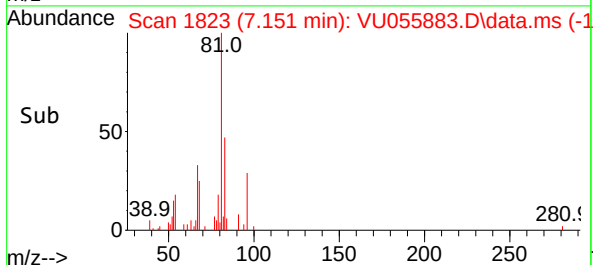
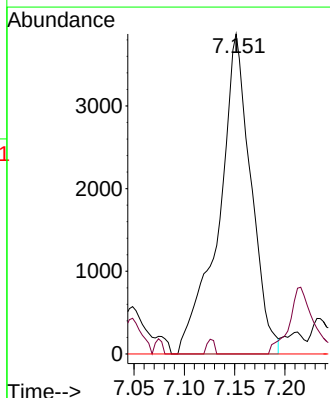
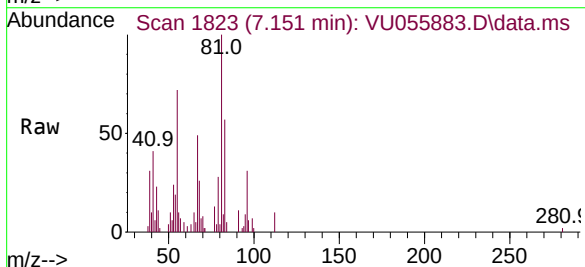
Tgt Ion: 83 Resp: 8609

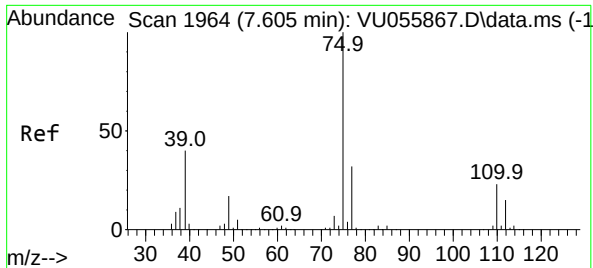
Ion Ratio Lower Upper

83 100

85 0.0 46.0 85.4#

127 0.0 7.0 10.4#





#39

cis-1,3-Dichloropropene

Concen: 1.299 ug/L

RT: 7.560 min Scan# 1964

Delta R.T. -0.045 min

Lab File: VU055883.D

Acq: 25 Oct 2023 16:45

Instrument :

MSVOA_U

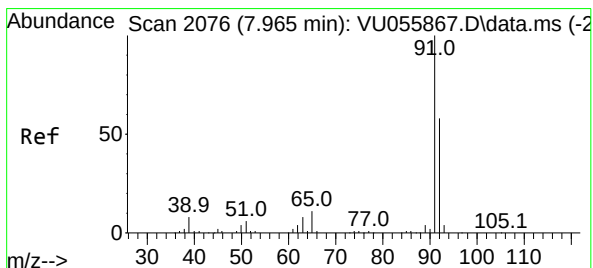
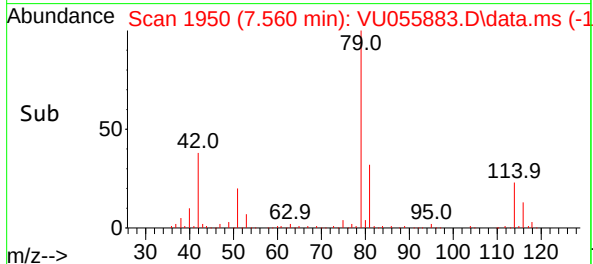
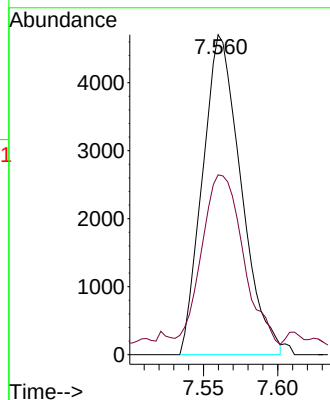
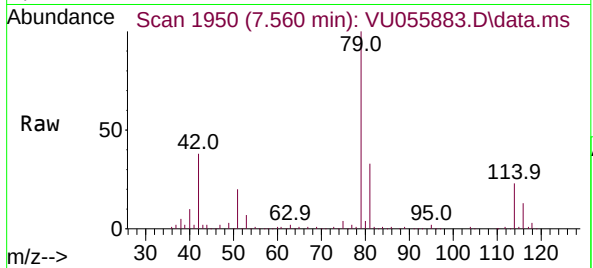
ClientSampleId :

Tgt Ion: 75 Resp: 8461

Ion Ratio Lower Upper

75 100

77 56.2 21.7 40.3#



#42

Toluene

Concen: 2.912 ug/L

RT: 7.968 min Scan# 2077

Delta R.T. 0.003 min

Lab File: VU055883.D

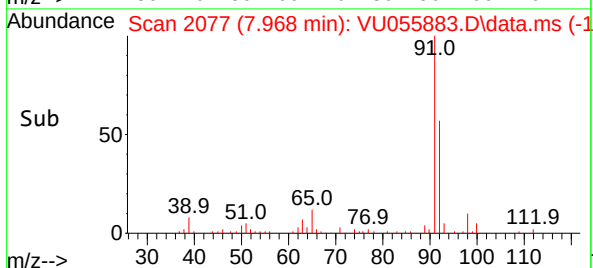
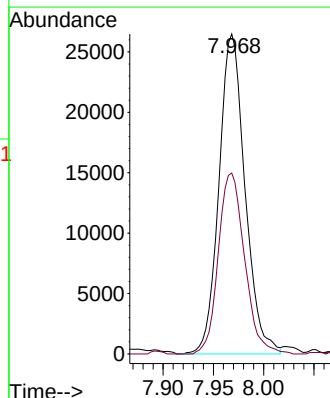
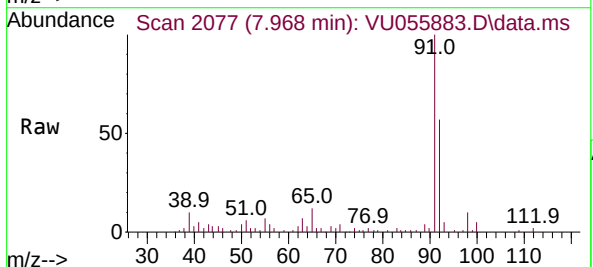
Acq: 25 Oct 2023 16:45

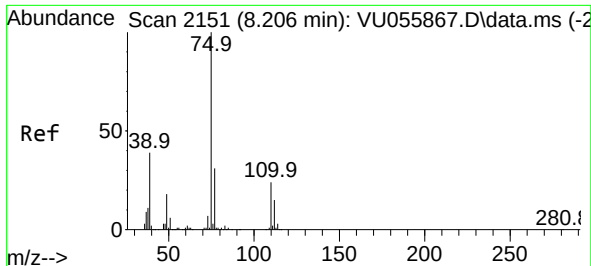
Tgt Ion: 91 Resp: 47771

Ion Ratio Lower Upper

91 100

92 56.6 40.0 74.4

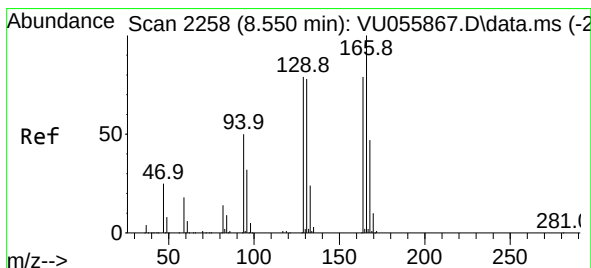
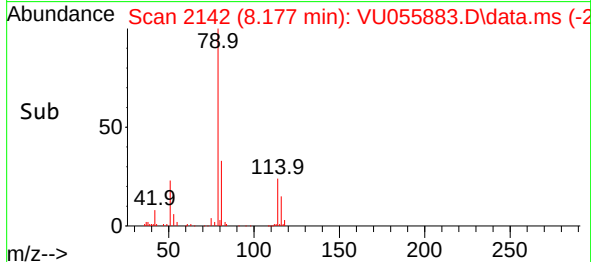
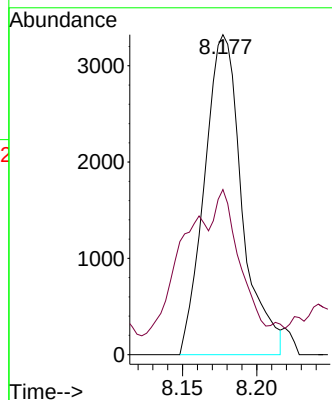
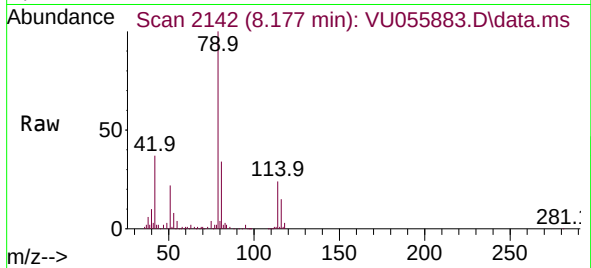




#44
trans-1,3-Dichloropropene
Concen: 0.937 ug/L
RT: 8.177 min Scan# 2151
Delta R.T. -0.029 min
Lab File: VU055883.D
Acq: 25 Oct 2023 16:45

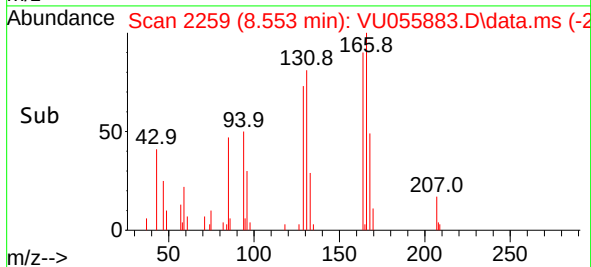
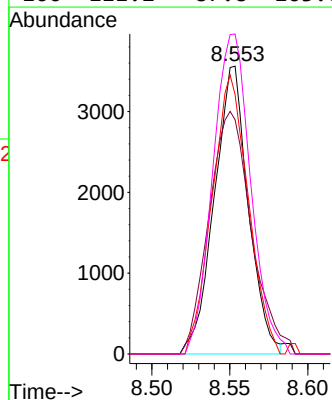
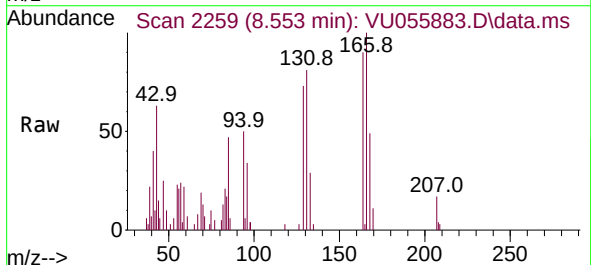
Instrument :
MSVOA_U
ClientSampleId :

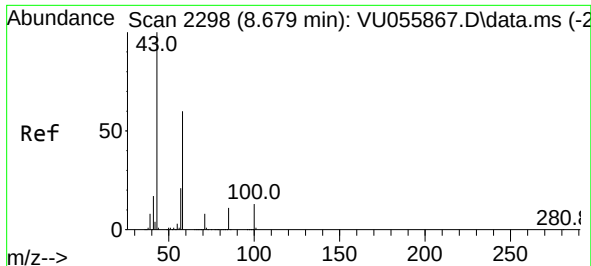
Tgt Ion: 75 Resp: 5842
Ion Ratio Lower Upper
75 100
77 51.6 21.6 40.2#



#46
Tetrachloroethene
Concen: 1.773 ug/L
RT: 8.553 min Scan# 2259
Delta R.T. 0.003 min
Lab File: VU055883.D
Acq: 25 Oct 2023 16:45

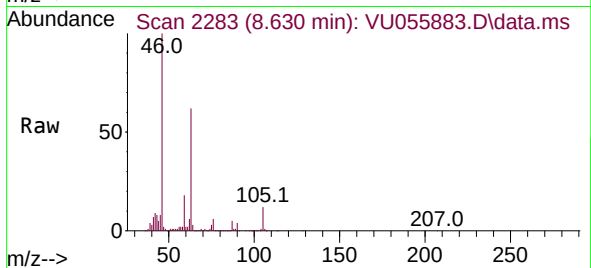
Tgt Ion:164 Resp: 5400
Ion Ratio Lower Upper
164 100
129 81.4 70.7 131.3
131 90.1 65.9 122.5
166 111.2 87.8 163.0



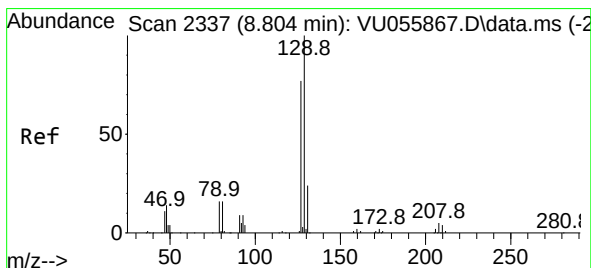
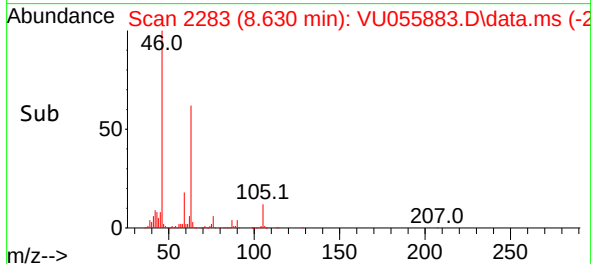
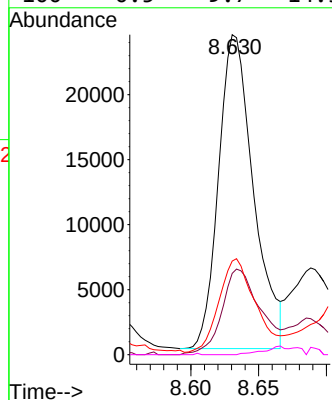


#48
2-Hexanone
Concen: 8.594 ug/L
RT: 8.630 min Scan# 21
Delta R.T. -0.048 min
Lab File: VU055883.D
Acq: 25 Oct 2023 16:45

Instrument :
MSVOA_U
ClientSampleId :

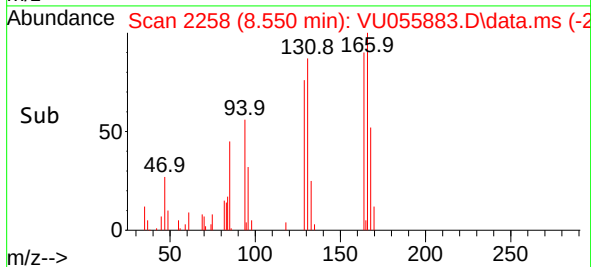
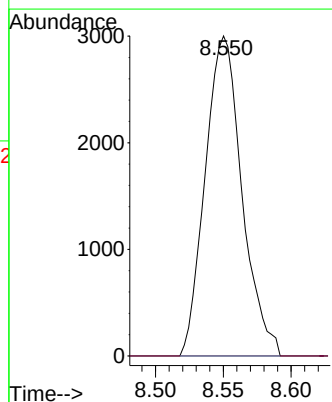
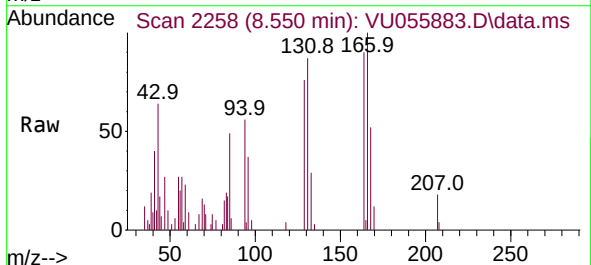


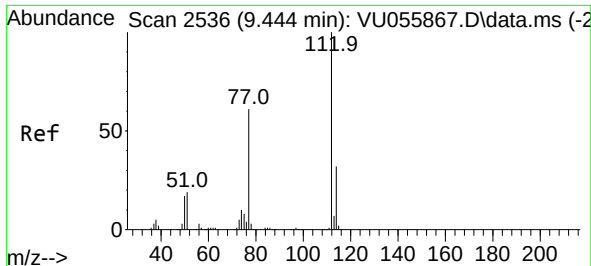
Tgt Ion: 43 Resp: 43240
Ion Ratio Lower Upper
43 100
58 30.0 45.2 67.8#
57 30.9 16.1 24.1#
100 0.5 9.7 14.5#



#49
Dibromochloromethane
Concen: 1.314 ug/L
RT: 8.550 min Scan# 2258
Delta R.T. -0.254 min
Lab File: VU055883.D
Acq: 25 Oct 2023 16:45

Tgt Ion: 129 Resp: 5670
Ion Ratio Lower Upper
129 100
127 0.0 54.0 100.4#

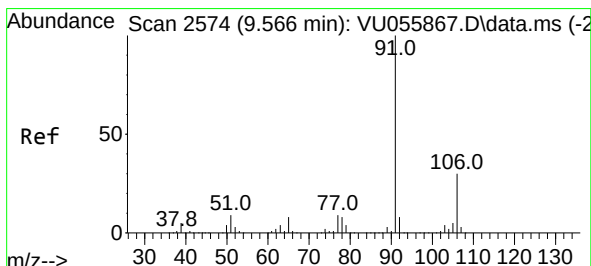
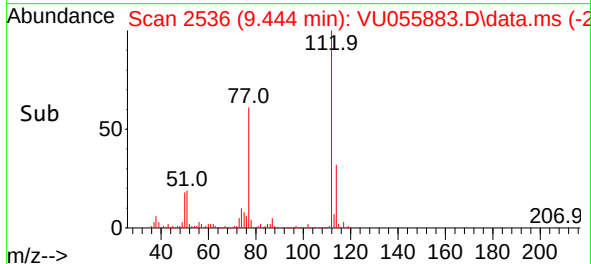
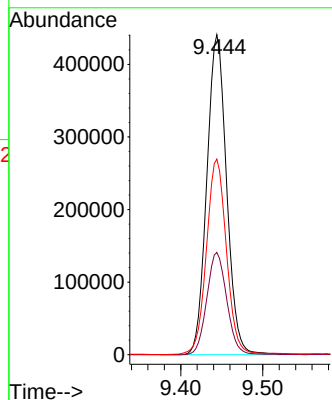
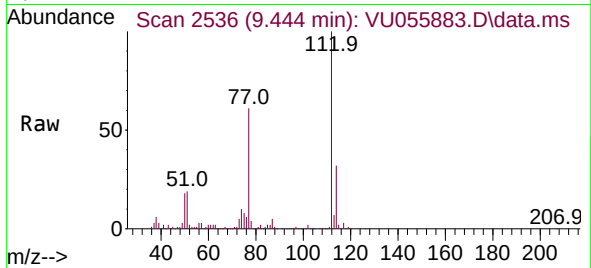




#51
Chlorobenzene
Concen: 69.511 ug/L
RT: 9.444 min Scan# 2536
Delta R.T. -0.000 min
Lab File: VU055883.D
Acq: 25 Oct 2023 16:45

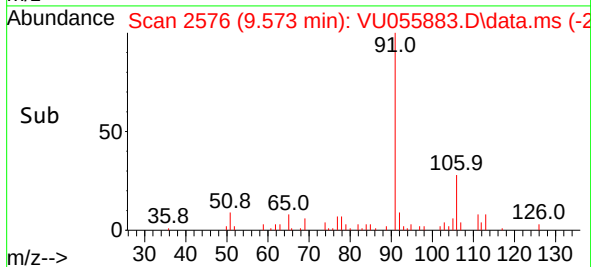
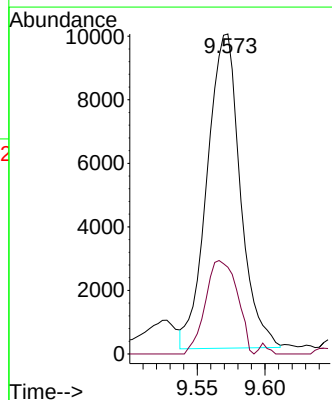
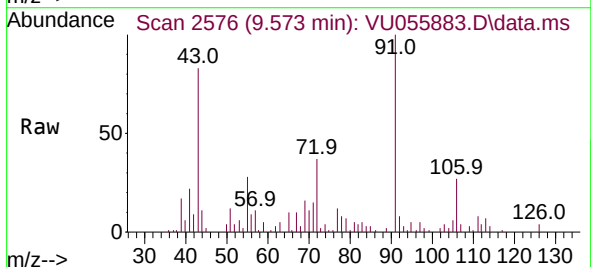
Instrument :
MSVOA_U
ClientSampleId :

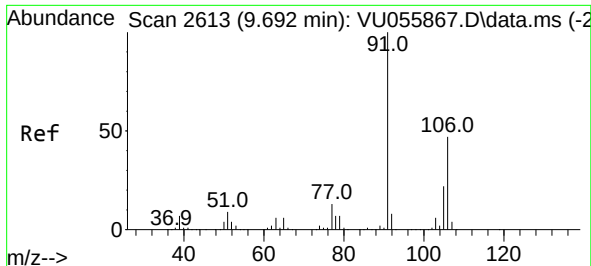
Tgt Ion:112 Resp: 737919
Ion Ratio Lower Upper
112 100
114 31.9 22.0 40.8
77 61.2 49.0 73.6



#52
Ethylbenzene
Concen: 0.938 ug/L
RT: 9.573 min Scan# 2576
Delta R.T. 0.006 min
Lab File: VU055883.D
Acq: 25 Oct 2023 16:45

Tgt Ion: 91 Resp: 16817
Ion Ratio Lower Upper
91 100
106 30.8 21.2 39.4

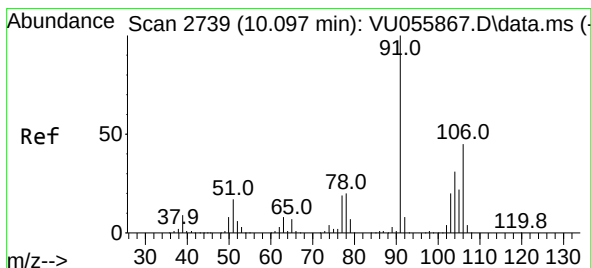
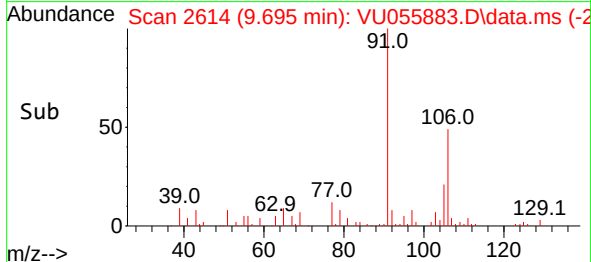
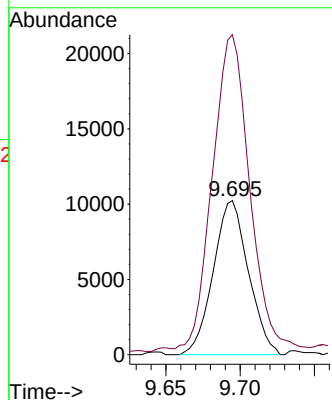
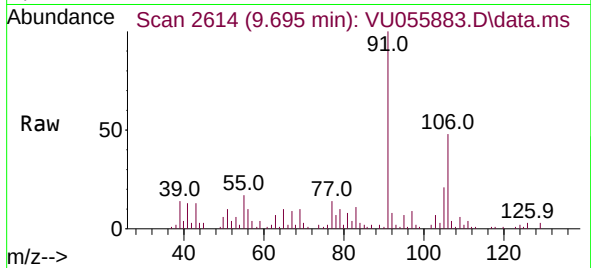




#53
m,p-Xylene
Concen: 2.506 ug/L
RT: 9.695 min Scan# 2613
Delta R.T. 0.003 min
Lab File: VU055883.D
Acq: 25 Oct 2023 16:45

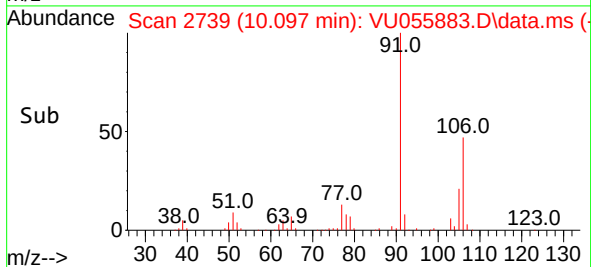
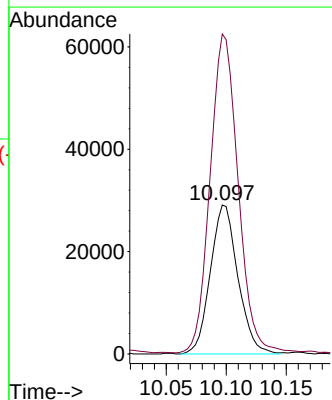
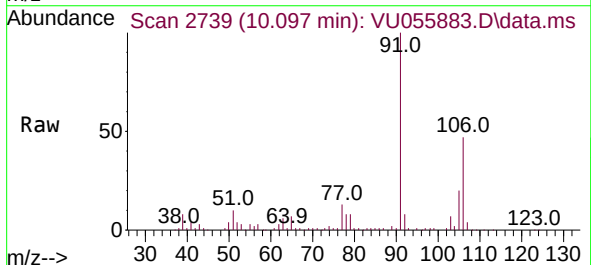
Instrument :
MSVOA_U
ClientSampleId :

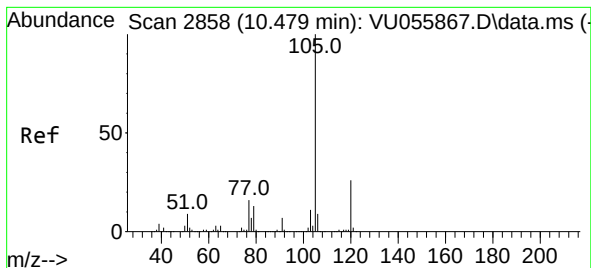
Tgt Ion:106 Resp: 16838
Ion Ratio Lower Upper
106 100
91 191.1 143.8 267.0



#54
o-Xylene
Concen: 7.148 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. -0.000 min
Lab File: VU055883.D
Acq: 25 Oct 2023 16:45

Tgt Ion:106 Resp: 46482
Ion Ratio Lower Upper
106 100
91 214.9 151.8 282.0





#61

Isopropylbenzene

Concen: 17.846 ug/L

RT: 10.479 min Scan# 21

Delta R.T. -0.000 min MSVOA_U

Lab File: VU055883.D

Acq: 25 Oct 2023 16:45

Instrument :

MSVOA_U

ClientSampleId :

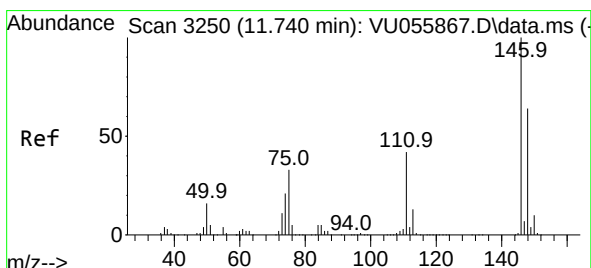
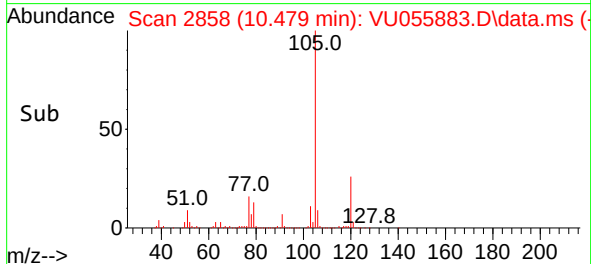
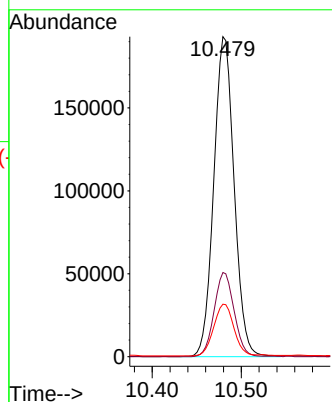
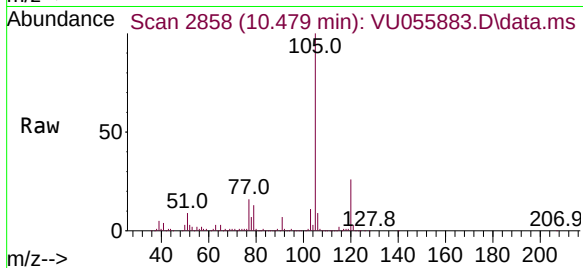
Tgt Ion:105 Resp: 306403

Ion Ratio Lower Upper

105 100

120 25.8 20.6 30.8

77 16.0 13.4 20.0



#64

1,3-Dichlorobenzene

Concen: 1.800 ug/L

RT: 11.746 min Scan# 3252

Delta R.T. 0.006 min

Lab File: VU055883.D

Acq: 25 Oct 2023 16:45

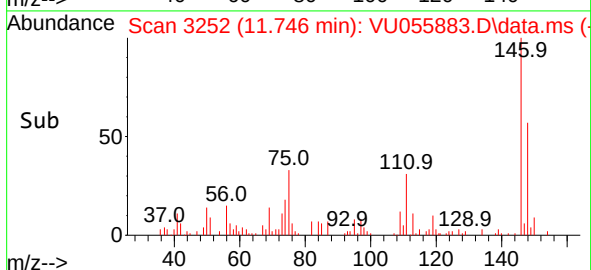
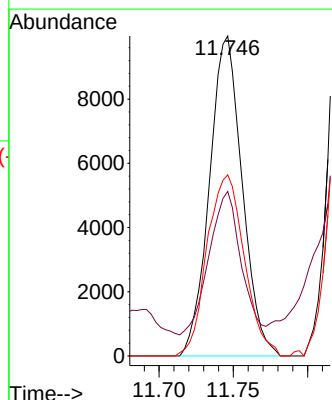
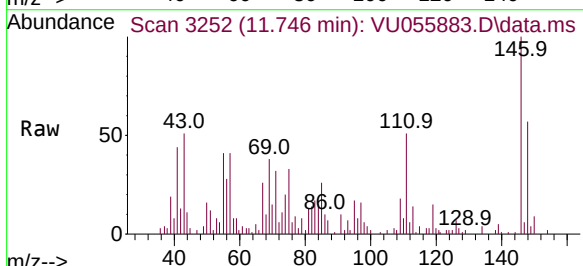
Tgt Ion:146 Resp: 15281

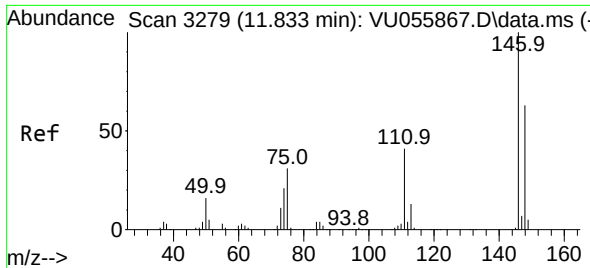
Ion Ratio Lower Upper

146 100

111 51.4 29.7 55.1

148 56.6 45.0 83.6

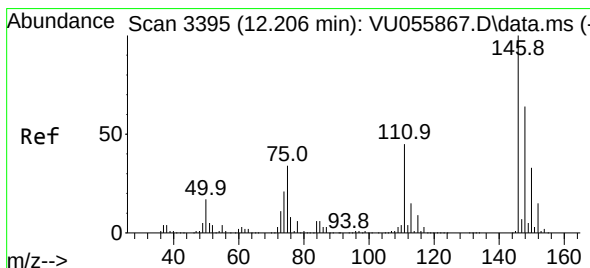
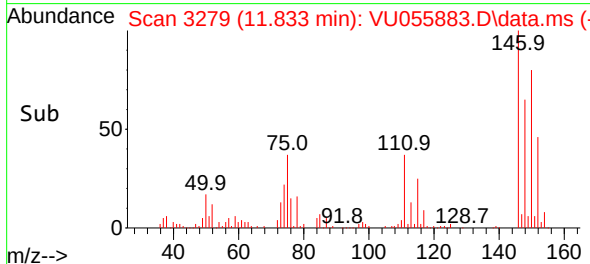
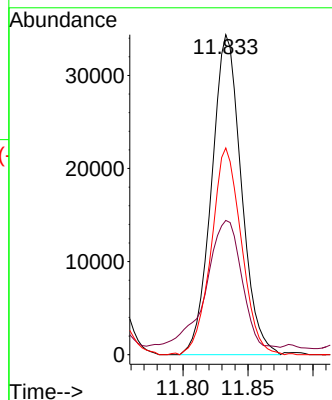
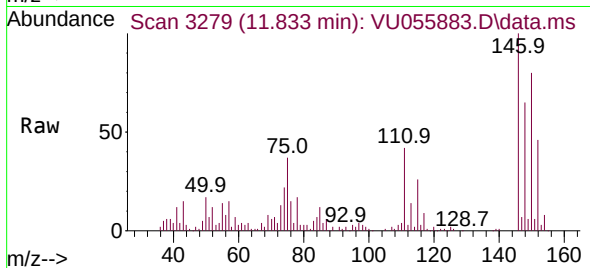




#65
1,4-Dichlorobenzene
Concen: 6.264 ug/L
RT: 11.833 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU055883.D
Acq: 25 Oct 2023 16:45

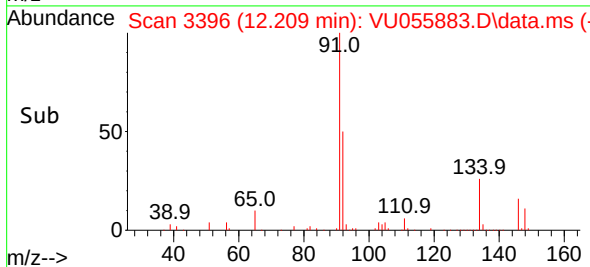
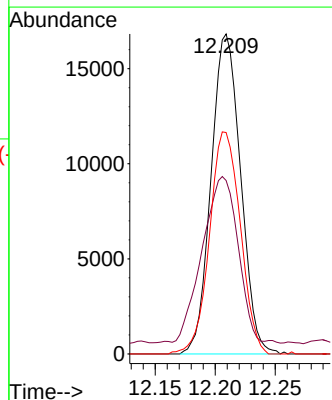
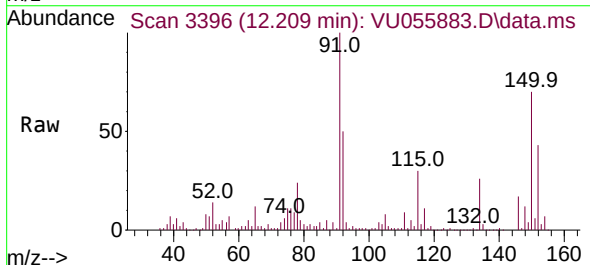
Instrument :
MSVOA_U
ClientSampleId :

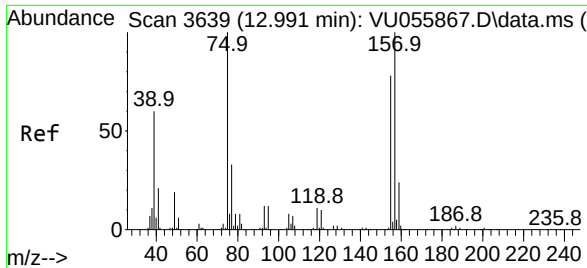
Tgt Ion:146 Resp: 54662
Ion Ratio Lower Upper
146 100
111 42.0 28.6 53.0
148 64.6 44.2 82.0



#67
1,2-Dichlorobenzene
Concen: 3.420 ug/L
RT: 12.209 min Scan# 3396
Delta R.T. 0.003 min
Lab File: VU055883.D
Acq: 25 Oct 2023 16:45

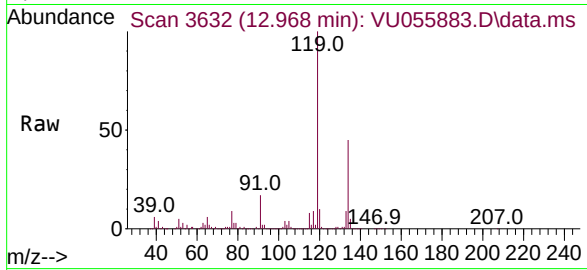
Tgt Ion:146 Resp: 28810
Ion Ratio Lower Upper
146 100
111 54.2 35.2 52.8#
148 69.2 52.3 78.5





#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.665 ug/L
 RT: 12.968 min Scan# 30
 Delta R.T. -0.023 min
 Lab File: VU055883.D
 Acq: 25 Oct 2023 16:45

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion: 75 Resp: 4762
 Ion Ratio Lower Upper
 75 100
 155 0.0 59.6 89.4#
 157 0.0 77.7 116.5#

