

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120823\
 Data File : VU056702.D
 Acq On : 08 Dec 2023 16:14
 Operator : MD/SY
 Sample : 05627-01DL 2X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DCLD8DL

Quant Time: Dec 08 20:58:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Dec 08 20:56:24 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	259437	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	256279	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	117898	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	103941	5.356	ug/L	0.00
Spiked Amount	5.000	Range 40 - 130	Recovery	=	107.200%	
7) Chloroethane-d5	1.907	69	78851	5.300	ug/L	0.00
Spiked Amount	5.000	Range 65 - 130	Recovery	=	106.000%	
11) 1,1-Dichloroethene-d2	2.563	65	44240	5.166	ug/L	0.00
Spiked Amount	5.000	Range 60 - 125	Recovery	=	103.400%	
20) 2-Butanone-d5	4.618	46	190546	49.245	ug/L	0.00
Spiked Amount	50.000	Range 40 - 130	Recovery	=	98.480%	
24) Chloroform-d	5.055	84	183692	4.894	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	97.800%	
26) 1,2-Dichloroethane-d4	5.695	65	89347	5.152	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	103.000%	
32) Benzene-d6	5.721	84	361831	4.739	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	94.800%	
36) 1,2-Dichloropropane-d6	6.682	67	112526	4.890	ug/L	0.00
Spiked Amount	5.000	Range 60 - 140	Recovery	=	97.800%	
41) Toluene-d8	7.894	98	305624	4.533	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	90.600%	
43) trans-1,3-Dichloroprop...	8.174	79	41904	4.748	ug/L	0.00
Spiked Amount	5.000	Range 55 - 130	Recovery	=	95.000%	
46) 2-Hexanone-d5	8.627	63	156218	45.040	ug/L	0.00
Spiked Amount	50.000	Range 45 - 130	Recovery	=	90.080%	
56) 1,1,2,2-Tetrachloroeth...	10.749	84	76115	4.629	ug/L	0.00
Spiked Amount	5.000	Range 65 - 120	Recovery	=	92.600%	
66) 1,2-Dichlorobenzene-d4	12.187	152	107359	4.929	ug/L	0.00
Spiked Amount	5.000	Range 80 - 120	Recovery	=	98.600%	
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	53691	2.653	ug/L	95
12) 1,1-Dichloroethene	2.576	96	85193	5.364	ug/L	97
16) Methylene chloride	3.039	84	218006	10.373	ug/L	99
18) trans-1,2-Dichloroethene	3.348	96	127428	7.798	ug/L	99
22) cis-1,2-Dichloroethene	4.660	96	74526	4.022	ug/L	91
27) 1,2-Dichloroethane	5.785	62	190814	9.583	ug/L	99
29) 1,1,1-Trichloroethane	5.312	97	55078	1.872	ug/L	97
31) Carbon tetrachloride	5.518	117	106094	4.199	ug/L	98
33) Benzene	5.769	78	200289	2.739	ug/L	100
34) Trichloroethene	6.537	95	23179	1.163	ug/L	97
37) 1,2-Dichloropropane	6.782	63	105194	5.516	ug/L	100
42) Toluene	7.965	91	138180	1.825	ug/L	99
45) 1,1,2-Trichloroethane	8.393	97	69512	5.473	ug/L	94
47) Tetrachloroethene	8.550	164	117819	8.770	ug/L	99
51) Chlorobenzene	9.441	112	323395	6.648	ug/L	100
52) Ethylbenzene	9.566	91	101109	1.203	ug/L	97
53) m,p-Xylene	9.688	106	482851	15.623	ug/L	99
54) o-Xylene	10.097	106	188999	6.296	ug/L	98
55) Styrene	10.110	104	561472	11.244	ug/L	99

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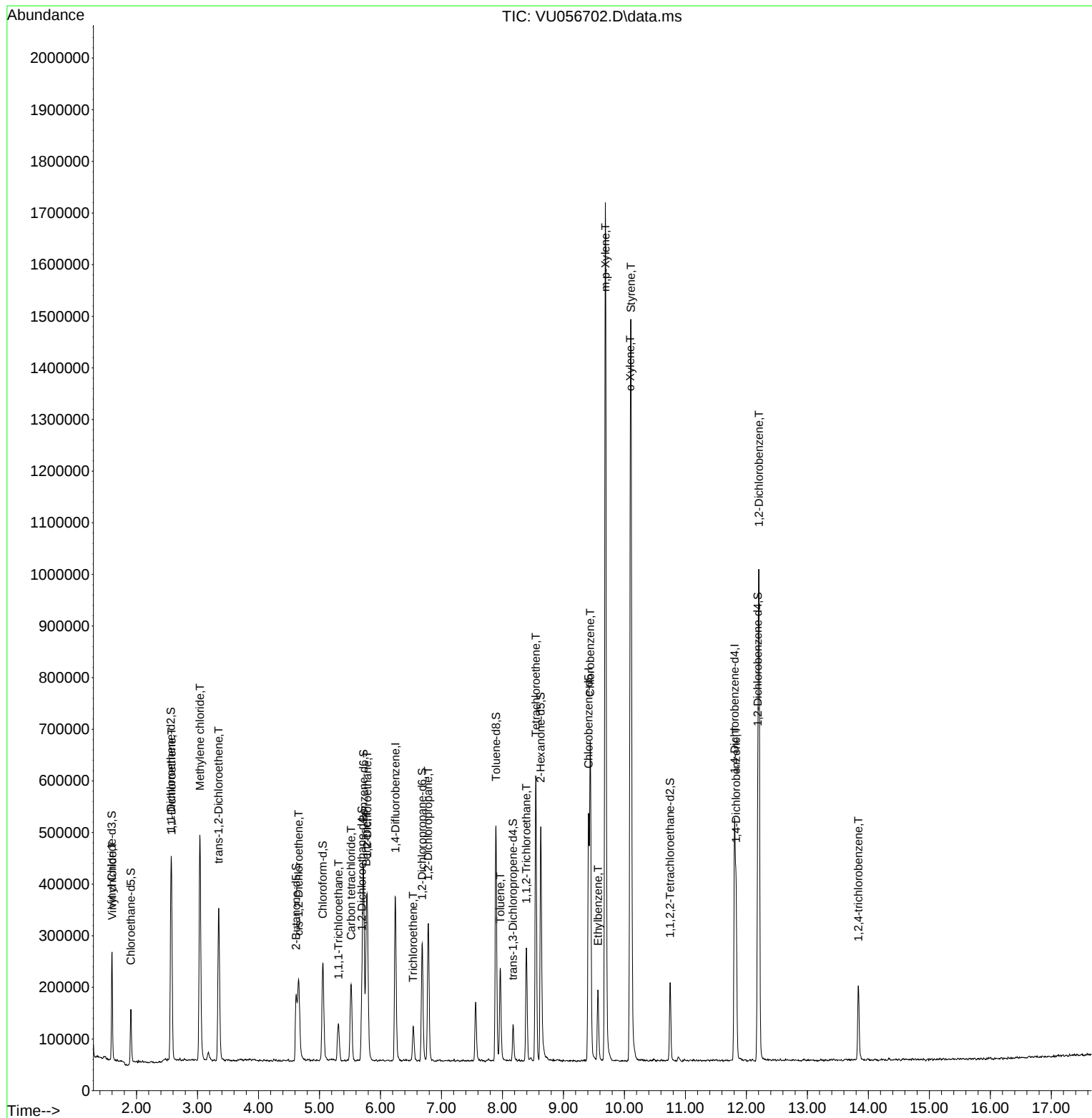
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.833	146	123641	3.564	ug/L	96
67) 1,2-Dichlorobenzene	12.206	146	338381	10.664	ug/L	98
70) 1,2,4-trichlorobenzene	13.836	180	47229	2.227	ug/L	99

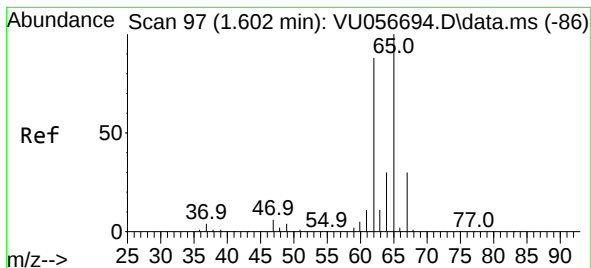
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 2.653 ug/L

RT: 1.602 min Scan# 91

Delta R.T. 0.000 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

Instrument :

MSVOA_U

ClientSampleId :

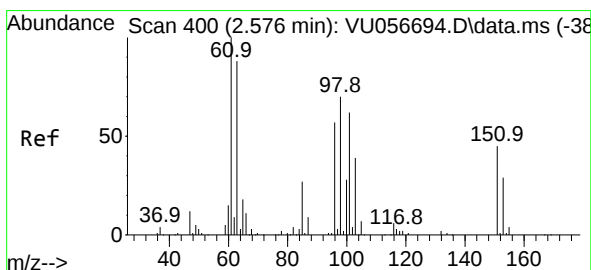
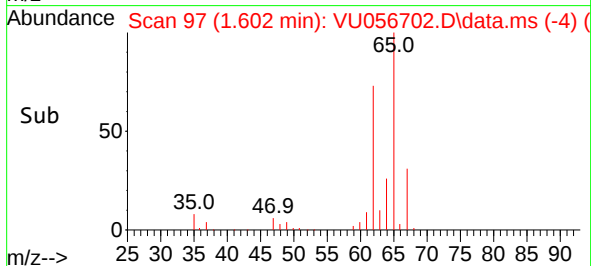
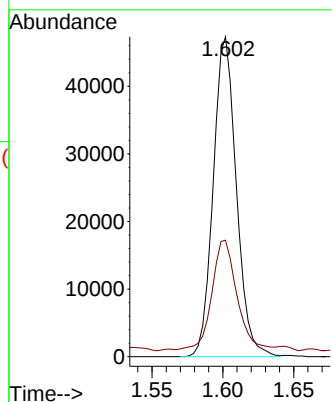
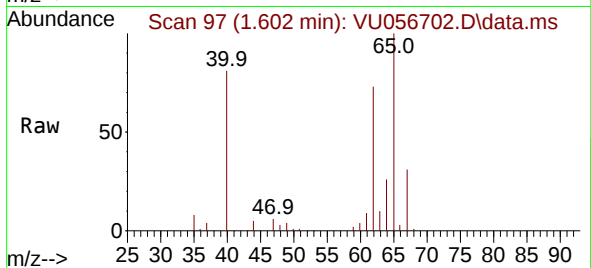
DCLD8DL

Tgt Ion: 62 Resp: 53691

Ion Ratio Lower Upper

62 100

64 36.4 23.3 43.3



#12

1,1-Dichloroethene

Concen: 5.364 ug/L

RT: 2.576 min Scan# 400

Delta R.T. 0.000 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

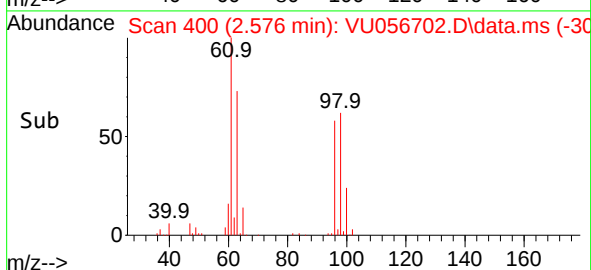
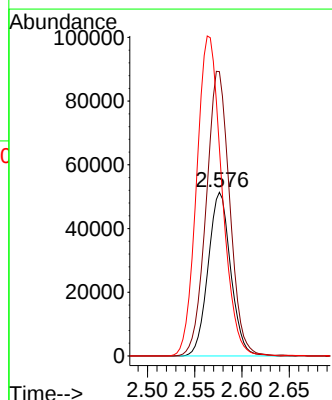
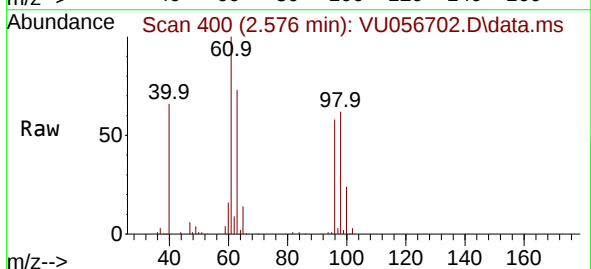
Tgt Ion: 96 Resp: 85193

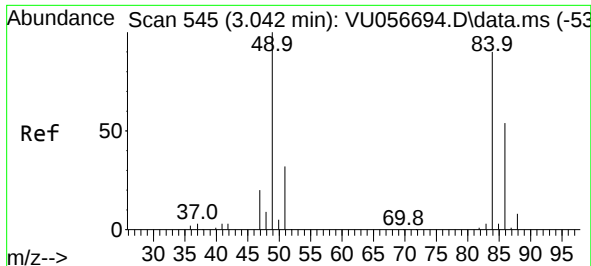
Ion Ratio Lower Upper

96 100

61 173.7 123.1 228.7

63 127.0 93.3 173.3

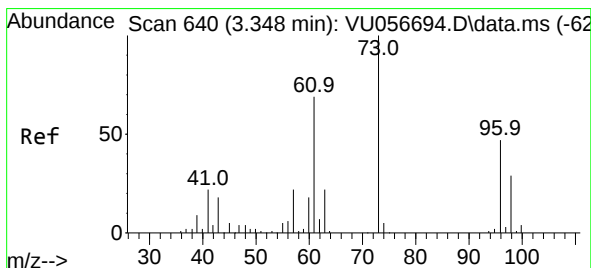
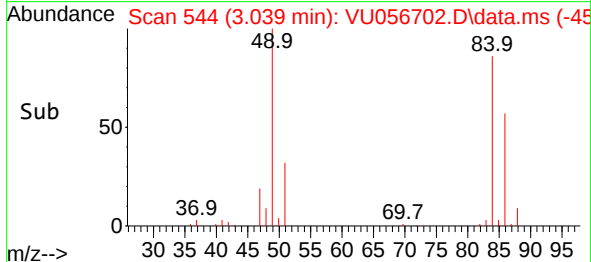
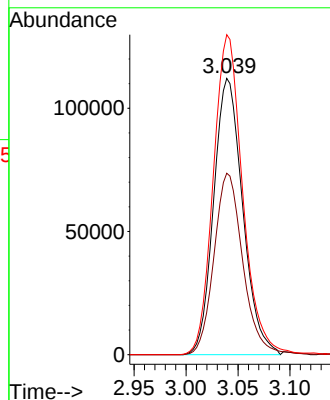
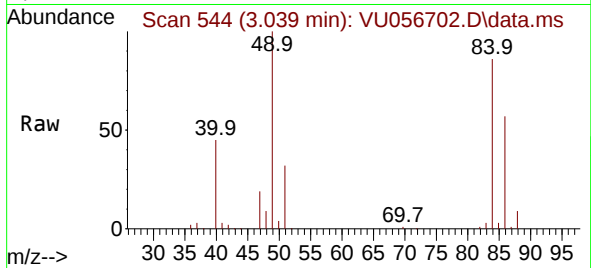




#16
Methylene chloride
Concen: 10.373 ug/L
RT: 3.039 min Scan# 54
Delta R.T. -0.003 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

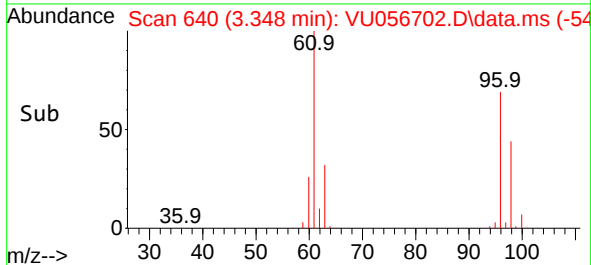
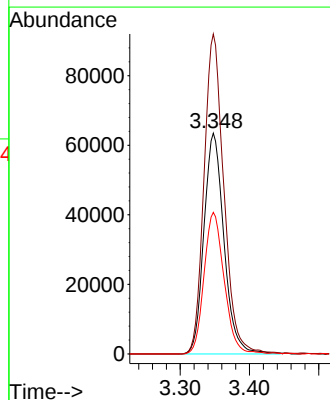
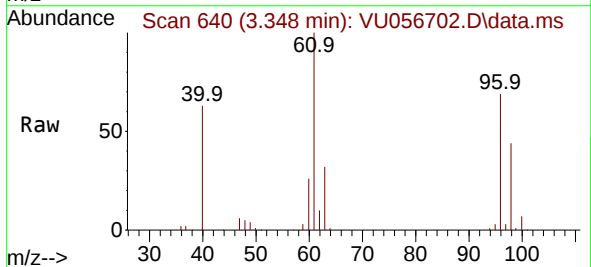
Instrument :
MSVOA_U
ClientSampleId :
DCLD8DL

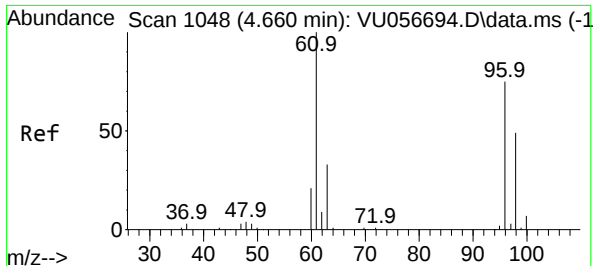
Tgt Ion: 84 Resp: 218006
Ion Ratio Lower Upper
84 100
86 65.7 44.7 83.1
49 115.8 81.8 152.0



#18
trans-1,2-Dichloroethene
Concen: 7.798 ug/L
RT: 3.348 min Scan# 640
Delta R.T. 0.000 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

Tgt Ion: 96 Resp: 127428
Ion Ratio Lower Upper
96 100
61 144.9 101.7 188.9
98 64.1 43.0 80.0





#22

cis-1,2-Dichloroethene

Concen: 4.022 ug/L

RT: 4.660 min Scan# 1048

Delta R.T. 0.000 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

Instrument :

MSVOA_U

ClientSampleId :

DCLD8DL

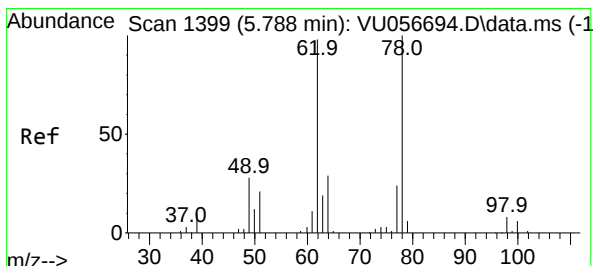
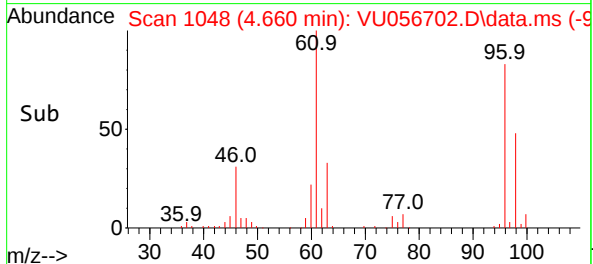
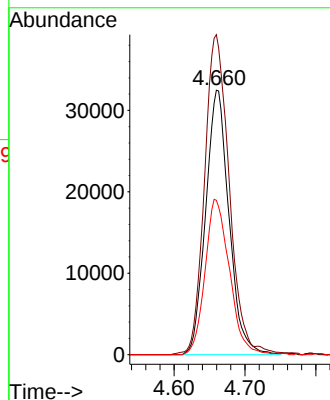
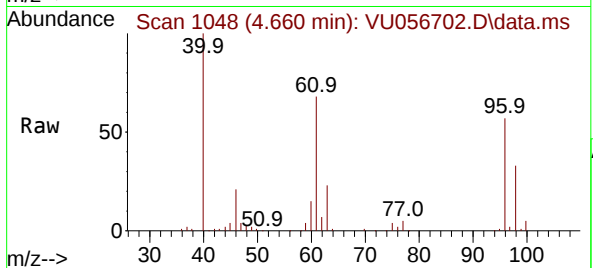
Tgt Ion: 96 Resp: 74526

Ion Ratio Lower Upper

96 100

61 121.0 93.2 173.2

98 58.4 44.8 83.2



#27

1,2-Dichloroethane

Concen: 9.583 ug/L

RT: 5.785 min Scan# 1398

Delta R.T. -0.003 min

Lab File: VU056702.D

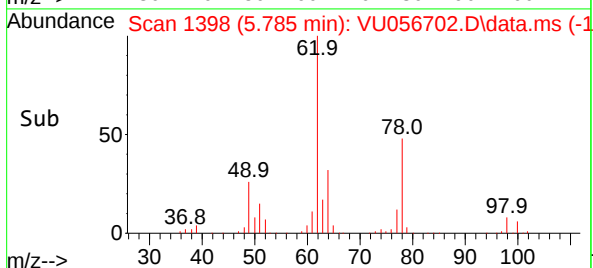
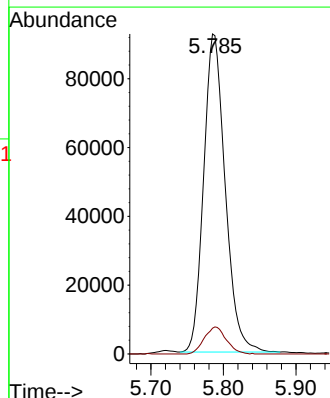
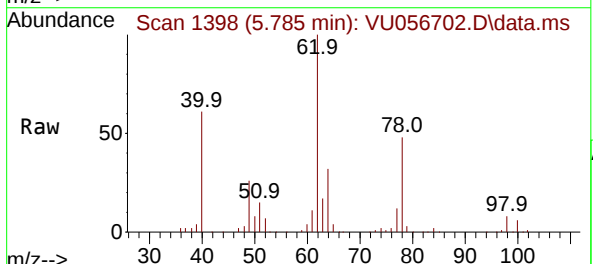
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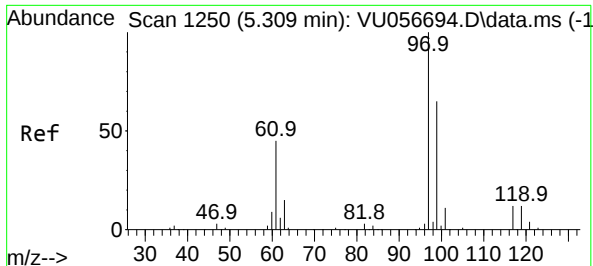
Tgt Ion: 62 Resp: 190814

Ion Ratio Lower Upper

62 100

98 8.0 6.6 10.0





#29

1,1,1-Trichloroethane

Concen: 1.872 ug/L

RT: 5.312 min Scan# 1251

Delta R.T. 0.003 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

Instrument :

MSVOA_U

ClientSampleId :

DCLD8DL

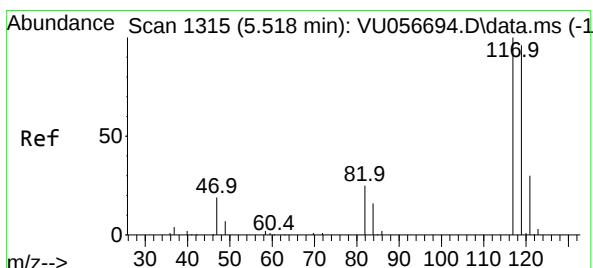
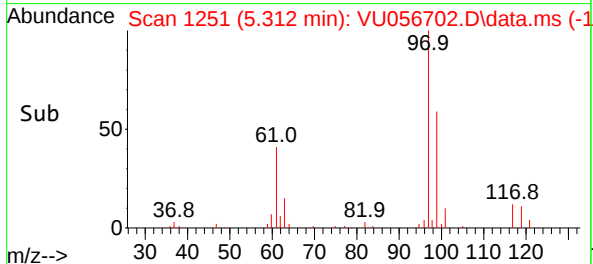
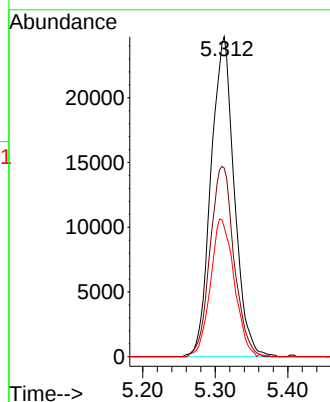
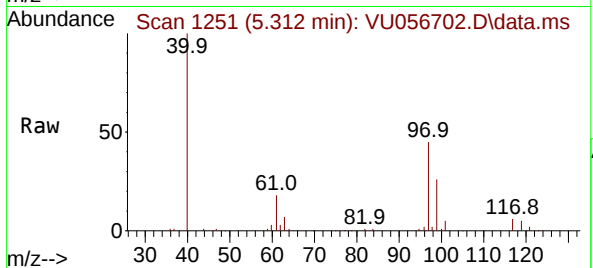
Tgt Ion: 97 Resp: 55078

Ion Ratio Lower Upper

97 100

99 61.3 51.6 77.4

61 43.8 34.3 51.5



#31

Carbon tetrachloride

Concen: 4.199 ug/L

RT: 5.518 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VU056702.D

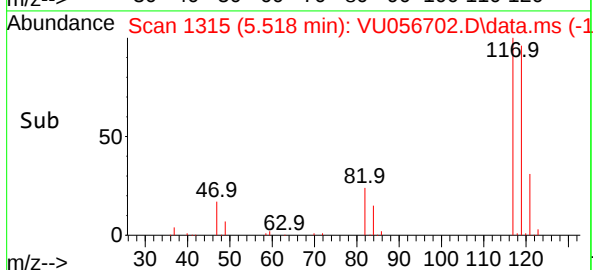
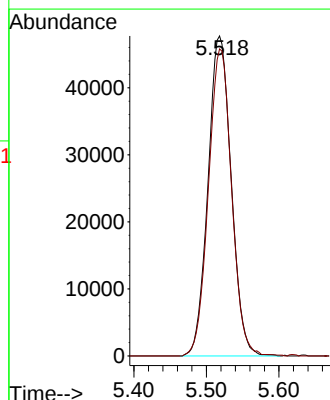
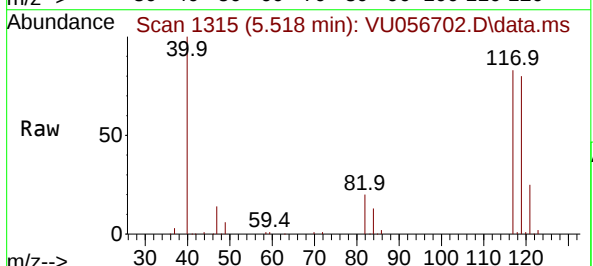
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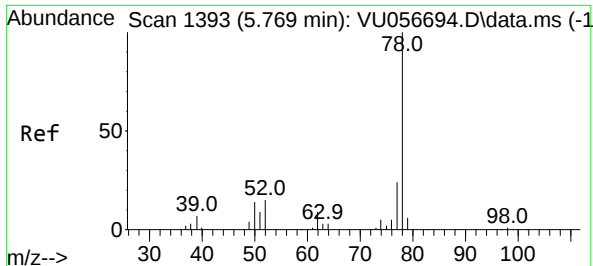
Tgt Ion: 117 Resp: 106094

Ion Ratio Lower Upper

117 100

119 95.9 78.1 117.1

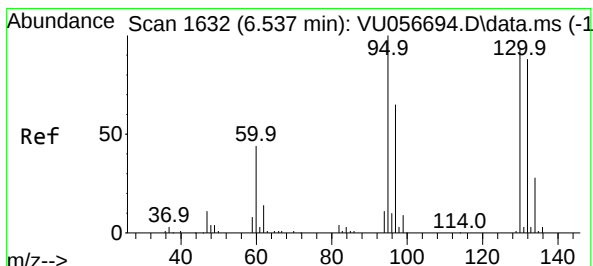
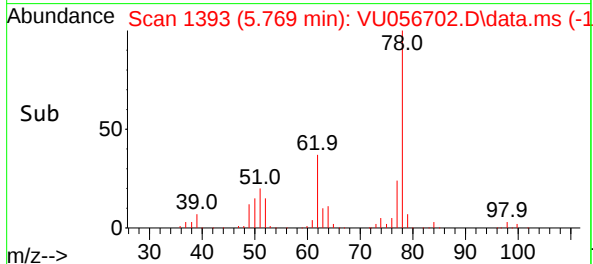
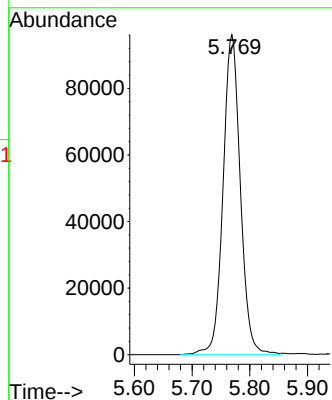
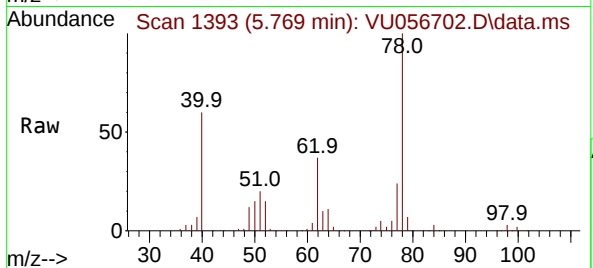




#33
Benzene
Concen: 2.739 ug/L
RT: 5.769 min Scan# 1393
Delta R.T. 0.000 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

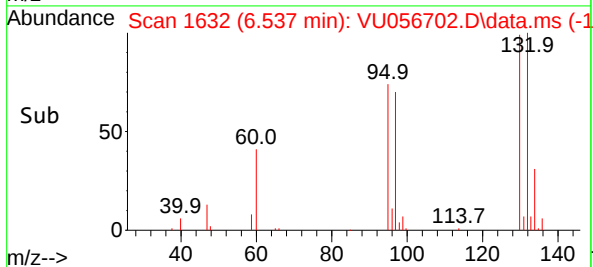
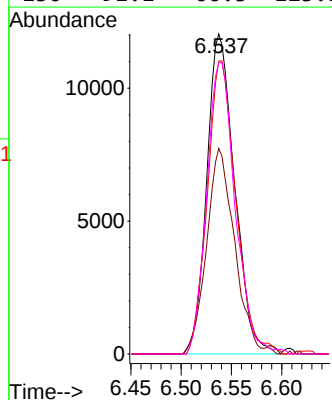
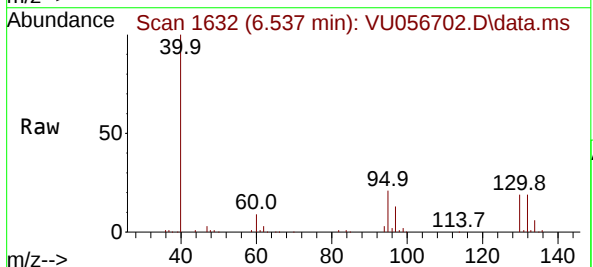
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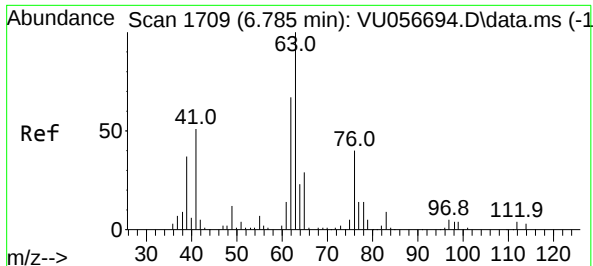
Tgt Ion: 78 Resp: 200289



#34
Trichloroethene
Concen: 1.163 ug/L
RT: 6.537 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

Tgt Ion: 95 Resp: 23179
Ion Ratio Lower Upper
95 100
97 64.2 46.5 86.3
132 91.6 62.0 115.2
130 91.1 66.3 123.1





#37

1,2-Dichloropropane

Concen: 5.516 ug/L

RT: 6.782 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

Instrument :

MSVOA_U

ClientSampleId :

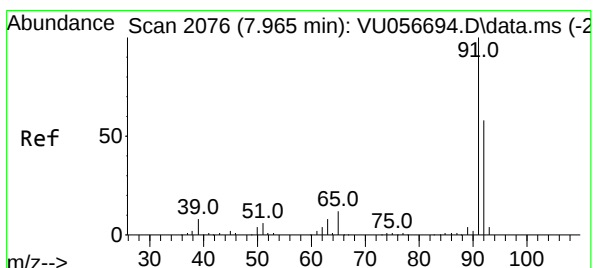
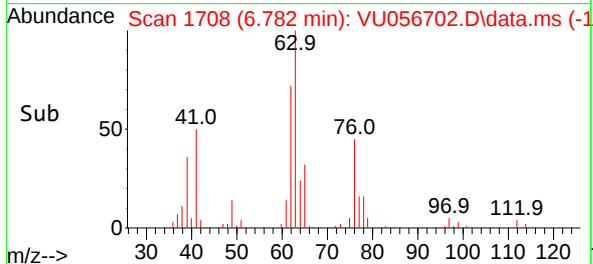
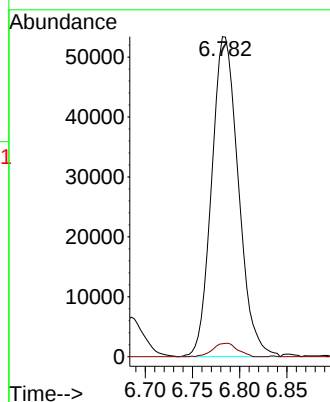
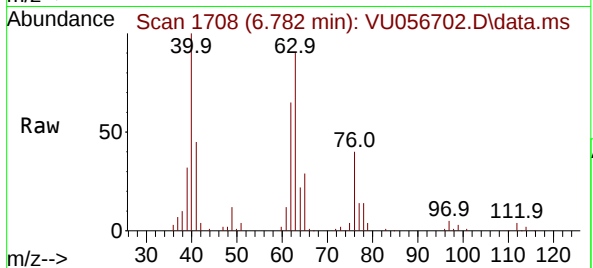
DCLD8DL

Tgt Ion: 63 Resp: 105194

Ion Ratio Lower Upper

63 100

112 3.9 3.2 4.8



#42

Toluene

Concen: 1.825 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. 0.000 min

Lab File: VU056702.D

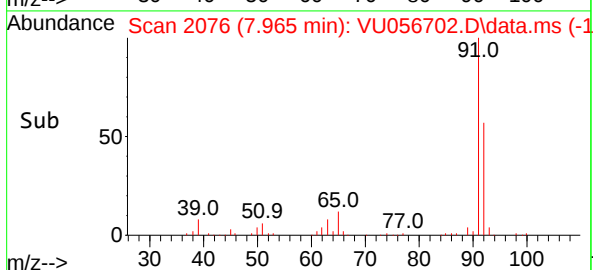
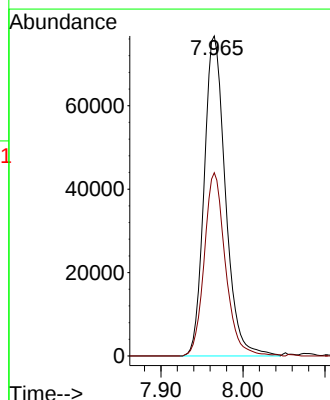
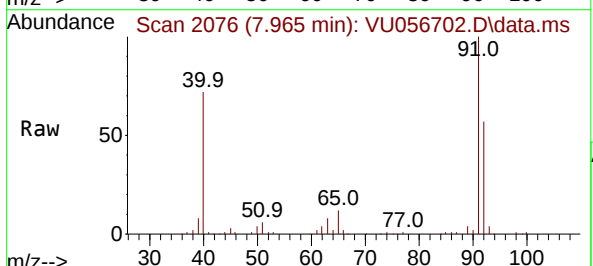
Acq: 08 Dec 2023 16:14

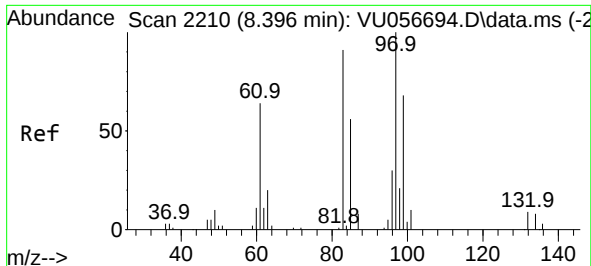
Tgt Ion: 91 Resp: 138180

Ion Ratio Lower Upper

91 100

92 57.3 40.6 75.4



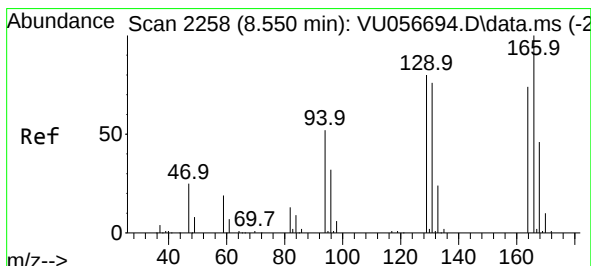
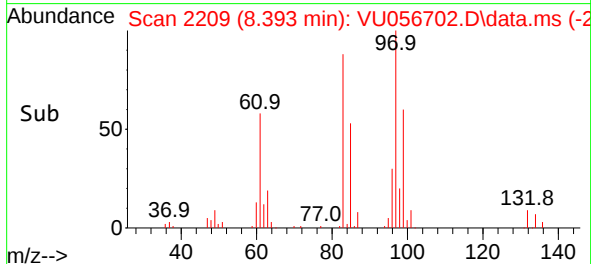
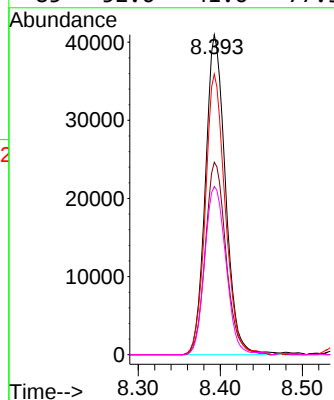
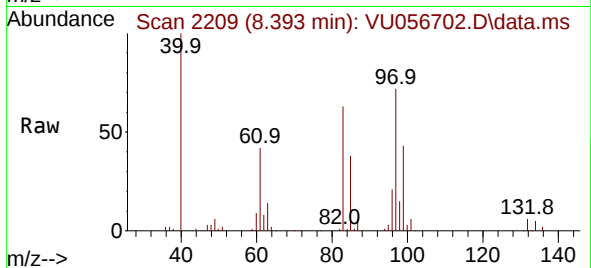


#45
1,1,2-Trichloroethane
Concen: 5.473 ug/L
RT: 8.393 min Scan# 2210
Delta R.T. -0.003 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

Instrument :
MSVOA_U
ClientSampleId :
DCLD8DL

Tgt Ion: 97 Resp: 69512

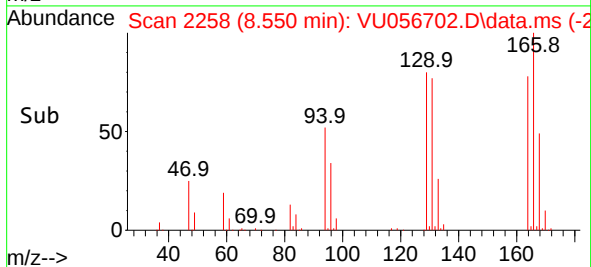
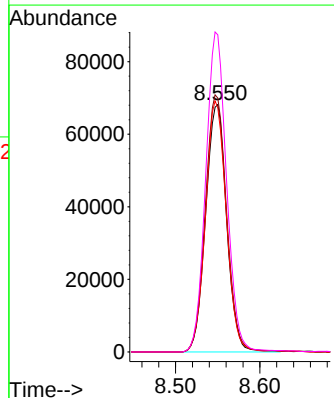
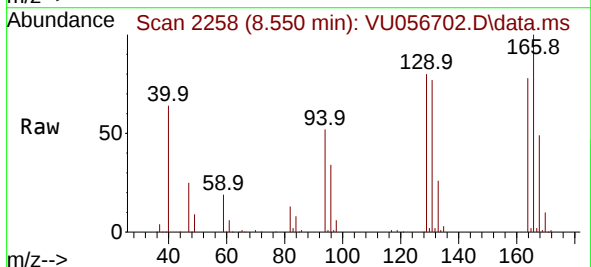
Ion	Ratio	Lower	Upper
97	100		
99	60.1	44.3	82.3
83	87.7	65.4	121.4
85	52.6	41.6	77.3

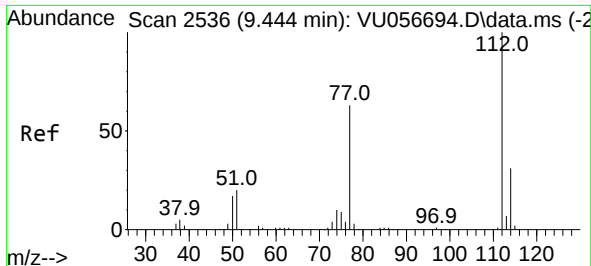


#47
Tetrachloroethene
Concen: 8.770 ug/L
RT: 8.550 min Scan# 2258
Delta R.T. 0.000 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

Tgt Ion: 164 Resp: 117819

Ion	Ratio	Lower	Upper
164	100		
129	102.7	71.0	131.9
131	98.7	70.3	130.7
166	128.2	89.8	166.8

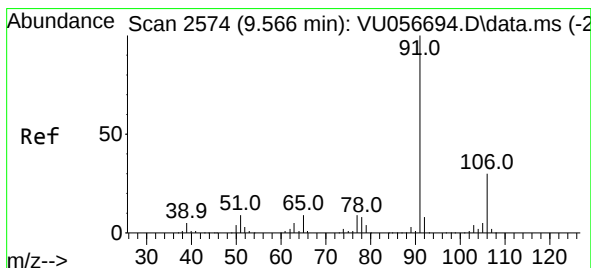
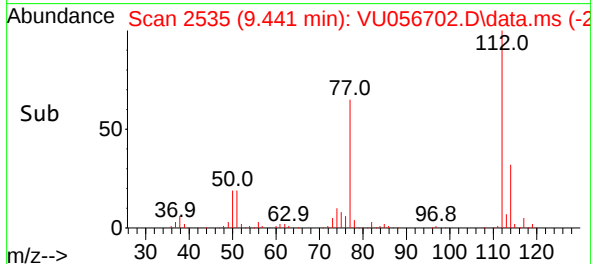
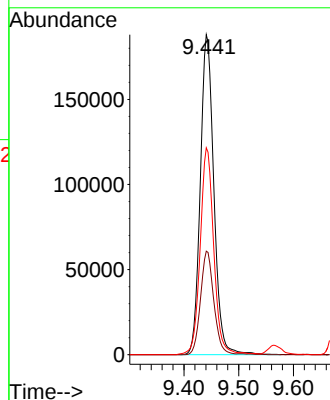
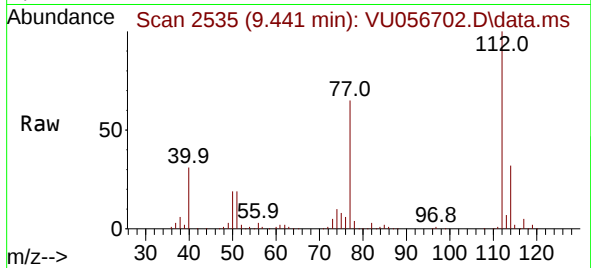




#51
Chlorobenzene
Concen: 6.648 ug/L
RT: 9.441 min Scan# 2536
Delta R.T. -0.003 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

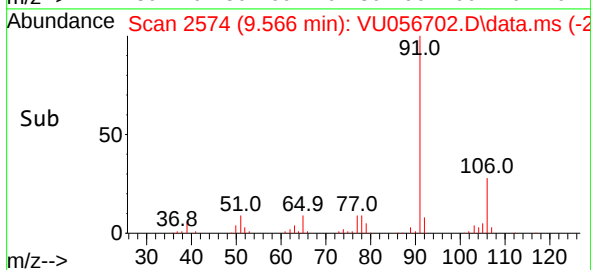
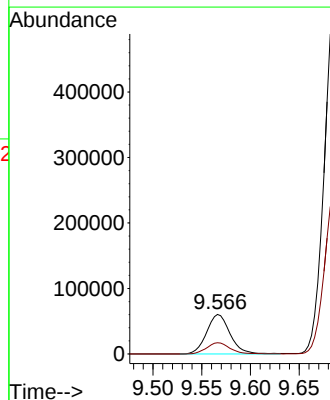
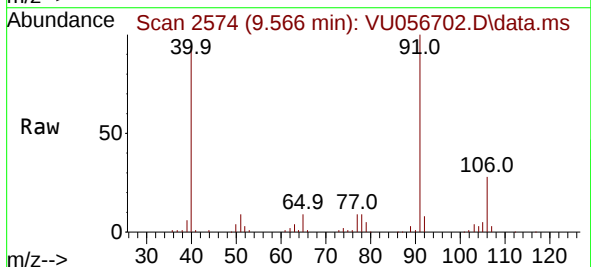
Instrument :
MSVOA_U
ClientSampleId :
DCLD8DL

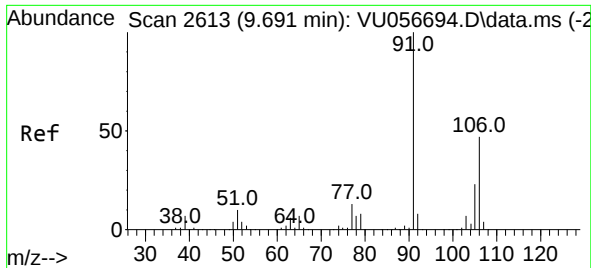
Tgt Ion:112 Resp: 323395
Ion Ratio Lower Upper
112 100
114 32.4 22.5 41.7
77 64.7 51.7 77.5



#52
Ethylbenzene
Concen: 1.203 ug/L
RT: 9.566 min Scan# 2574
Delta R.T. 0.000 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

Tgt Ion: 91 Resp: 101109
Ion Ratio Lower Upper
91 100
106 28.2 21.1 39.1

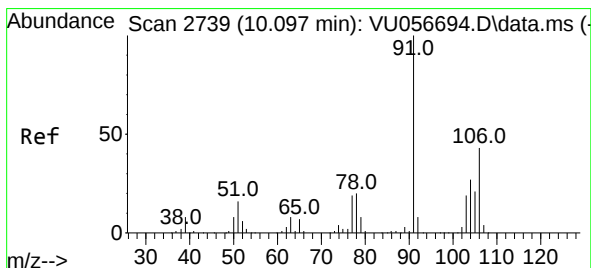
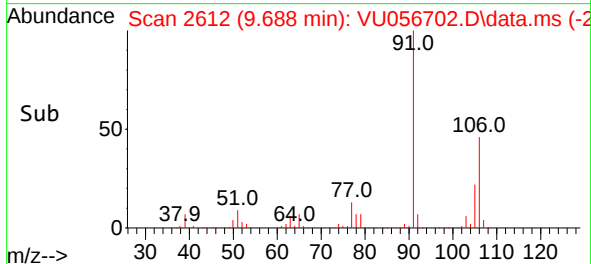
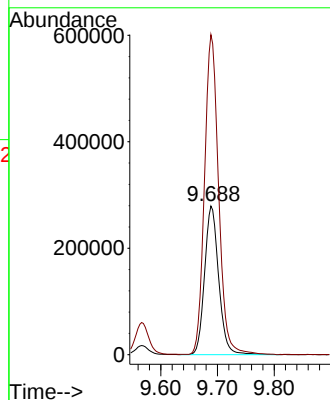
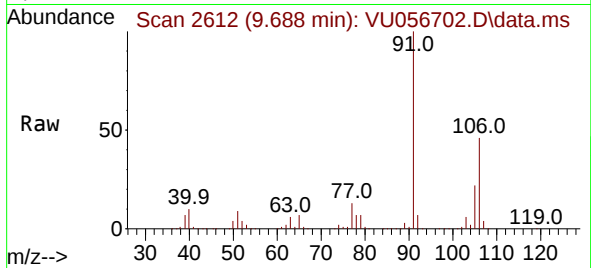




#53
m,p-Xylene
Concen: 15.623 ug/L
RT: 9.688 min Scan# 2612
Delta R.T. -0.003 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

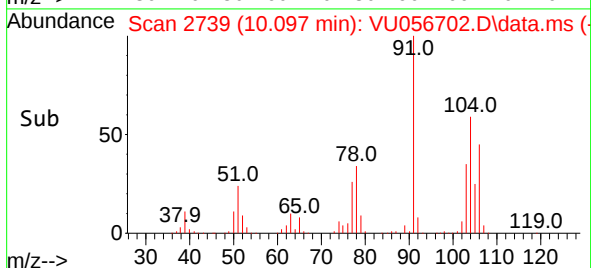
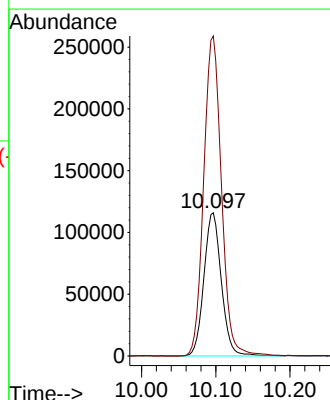
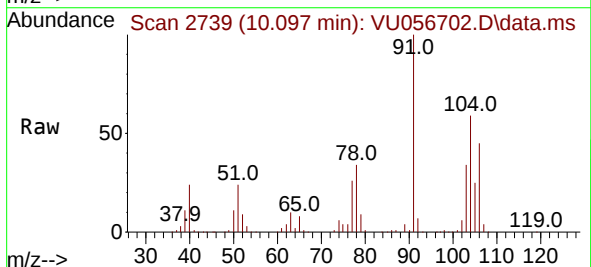
Instrument :
MSVOA_U
ClientSampleId :
DCLD8DL

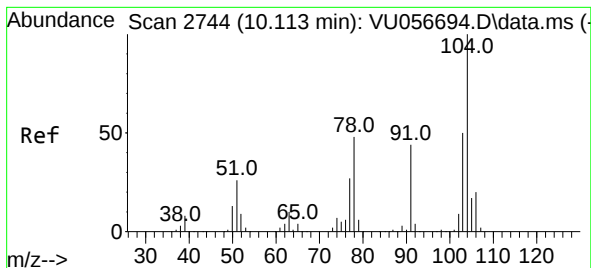
Tgt Ion:106 Resp: 482851
Ion Ratio Lower Upper
106 100
91 215.3 149.6 277.8



#54
o-Xylene
Concen: 6.296 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. 0.000 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

Tgt Ion:106 Resp: 188999
Ion Ratio Lower Upper
106 100
91 223.5 159.3 295.9





#55

Styrene

Concen: 11.244 ug/L

RT: 10.110 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

Instrument :

MSVOA_U

ClientSampleId :

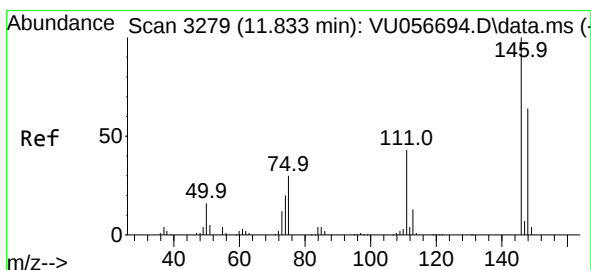
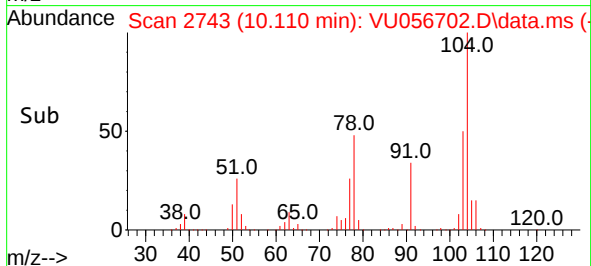
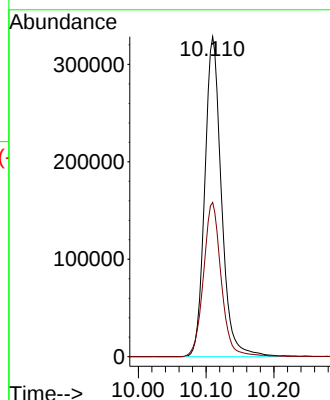
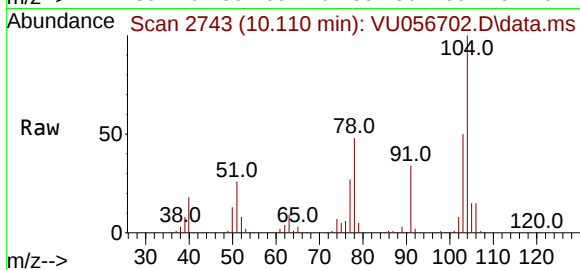
DCLD8DL

Tgt Ion:104 Resp: 561472

Ion Ratio Lower Upper

104 100

78 48.2 34.2 63.6



#65

1,4-Dichlorobenzene

Concen: 3.564 ug/L

RT: 11.833 min Scan# 3279

Delta R.T. 0.000 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

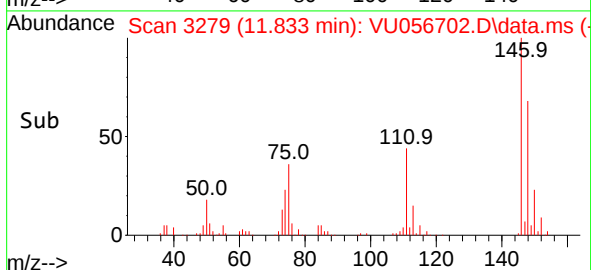
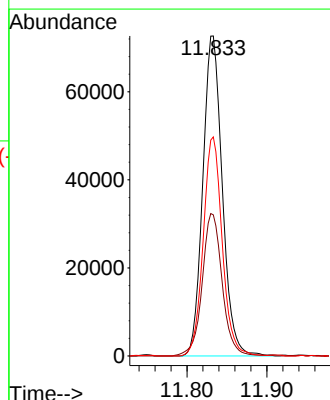
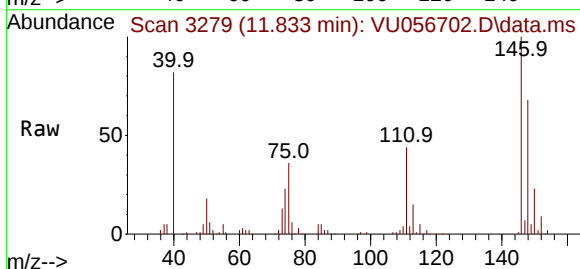
Tgt Ion:146 Resp: 123641

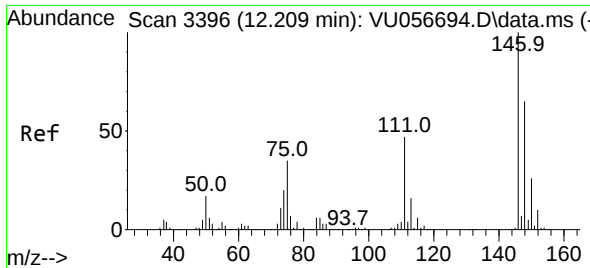
Ion Ratio Lower Upper

146 100

111 44.1 30.5 56.7

148 68.5 44.8 83.2

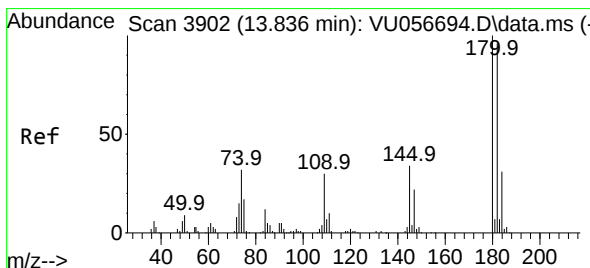
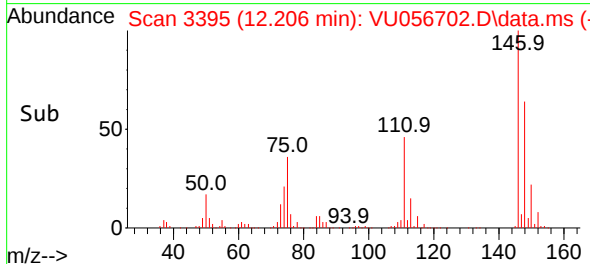
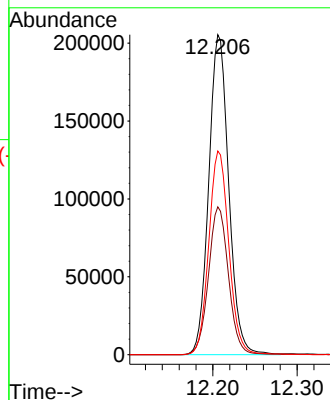
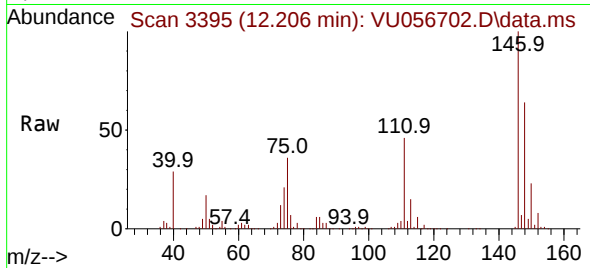




#67
1,2-Dichlorobenzene
Concen: 10.664 ug/L
RT: 12.206 min Scan# 31
Delta R.T. -0.003 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

Instrument :
MSVOA_U
ClientSampleId :
DCLD8DL

Tgt Ion:146 Resp: 338381
Ion Ratio Lower Upper
146 100
111 46.2 38.3 57.5
148 63.6 52.2 78.4



#70
1,2,4-trichlorobenzene
Concen: 2.227 ug/L
RT: 13.836 min Scan# 3902
Delta R.T. 0.000 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

Tgt Ion:180 Resp: 47229
Ion Ratio Lower Upper
180 100
182 93.2 75.4 113.2
145 33.4 26.8 40.2

