

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030824\
 Data File : VU058008.D
 Acq On : 08 Mar 2024 11:36
 Operator : MD/SY
 Sample : P1636-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 09 00:11:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR022924WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Mar 09 00:10:03 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	146967	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	137748	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	66464	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	44947	4.251	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.000%
7) Chloroethane-d5	1.908	69	40853	4.701	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.000%
11) 1,1-Dichloroethene-d2	2.560	65	20187	4.412	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	88.200%
20) 2-Butanone-d5	4.612	46	92929	53.338	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.680%
24) Chloroform-d	5.052	84	93362	4.668	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.400%
26) 1,2-Dichloroethane-d4	5.695	65	45048	4.971	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.400%
32) Benzene-d6	5.721	84	189296	4.716	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.400%
36) 1,2-Dichloropropane-d6	6.682	67	60303	4.941	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.800%
41) Toluene-d8	7.891	98	163333	4.491	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.800%
43) trans-1,3-Dichloroprop...	8.177	79	20119	4.794	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.800%
46) 2-Hexanone-d5	8.627	63	78411	55.652	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	111.300%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	38558	5.152	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.000%
66) 1,2-Dichlorobenzene-d4	12.187	152	55960	5.112	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.200%

Target Compounds				Qvalue		
5) Vinyl chloride	1.599	62	130907	11.688	ug/L	98
12) 1,1-Dichloroethene	2.573	96	137094	15.460	ug/L #	73
16) Methylene chloride	3.036	84	238349	22.115	ug/L	98
18) trans-1,2-Dichloroethene	3.345	96	164233	17.003	ug/L	98
22) cis-1,2-Dichloroethene	4.657	96	68011	6.401	ug/L	94
27) 1,2-Dichloroethane	5.785	62	35001	3.214	ug/L	99
29) 1,1,1-Trichloroethane	5.306	97	235373	14.356	ug/L	99
31) Carbon tetrachloride	5.515	117	176590	12.395	ug/L	99
33) Benzene	5.766	78	834452	19.741	ug/L	100
34) Trichloroethene	6.538	95	60317	5.423	ug/L	98
37) 1,2-Dichloropropane	6.782	63	173060	15.878	ug/L	99
42) Toluene	7.962	91	941927	21.398	ug/L	100
45) 1,1,2-Trichloroethane	8.393	97	28512	4.412	ug/L	96
47) Tetrachloroethene	8.547	164	121654	15.766	ug/L	96
49) Dibromochloromethane	8.547	129	125422	16.395	ug/L #	10
51) Chlorobenzene	9.441	112	353696	12.813	ug/L	98
52) Ethylbenzene	9.563	91	932121	18.922	ug/L	99
53) m,p-Xylene	9.685	106	303667	17.254	ug/L	99
54) o-Xylene	10.094	106	116571	6.646	ug/L	100

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Response via : Initial Calibration

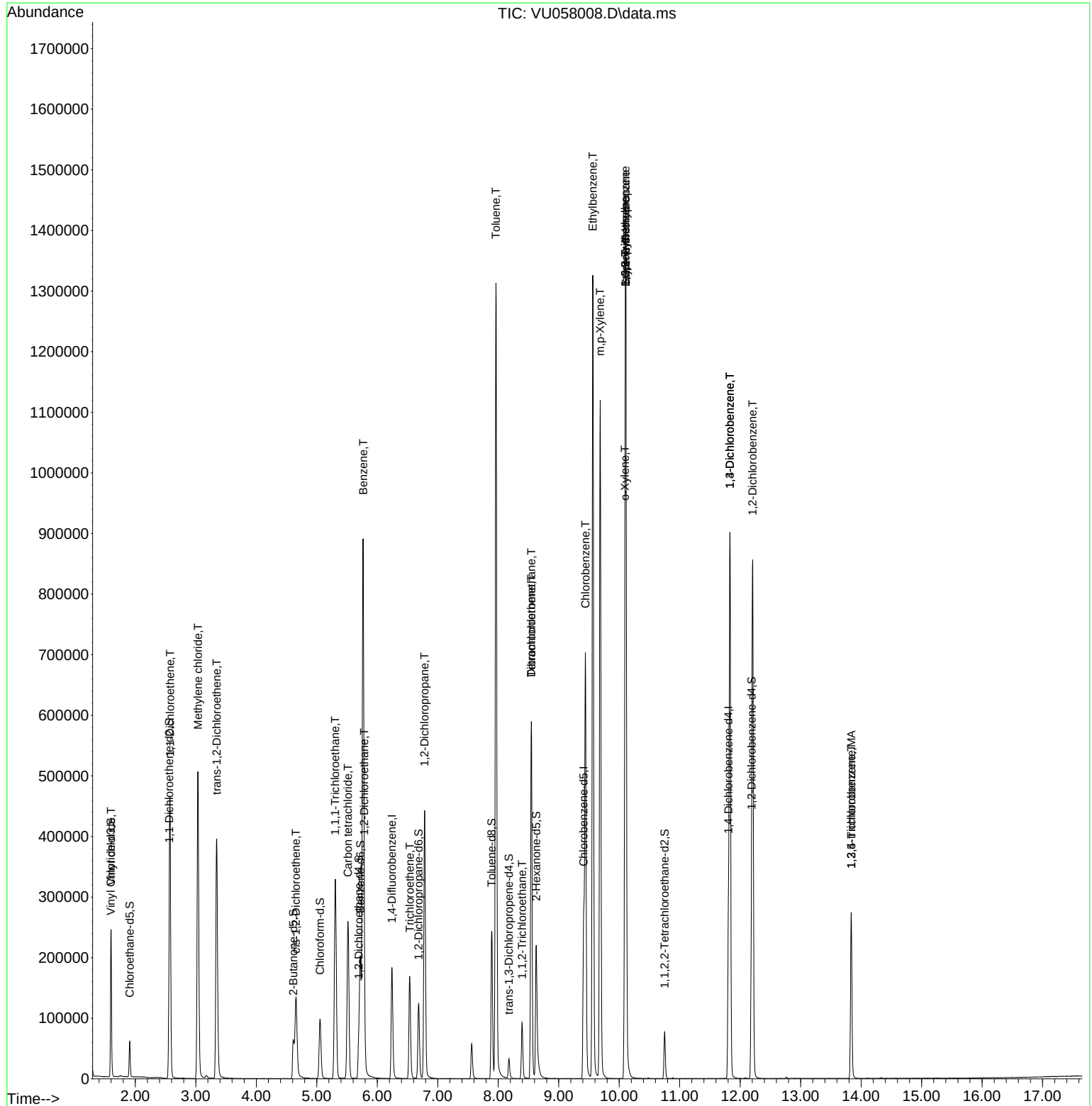
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	10.110	104	590675	21.455	ug/L	97
60) Isopropylbenzene	10.103	105	97731	2.208	ug/L #	1
61) 1,2,3-Trichloropropane	10.107	75	31090	5.710	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.103	105	97731	2.618	ug/L #	30
64) 1,3-Dichlorobenzene	11.830	146	334199	16.610	ug/L	98
65) 1,4-Dichlorobenzene	11.830	146	334199	16.970	ug/L	99
67) 1,2-Dichlorobenzene	12.206	146	313176	17.829	ug/L	99
69) 1,3,5-Trichlorobenzene	13.836	180	80341	5.551	ug/L	99
70) 1,2,4-trichlorobenzene	13.836	180	80341	7.388	ug/L	98

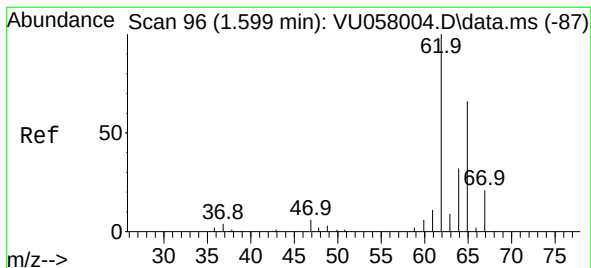
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 11.688 ug/L

RT: 1.599 min Scan# 96

Delta R.T. 0.000 min

Lab File: VU058008.D

Acq: 08 Mar 2024 11:36

Instrument :

MSVOA_U

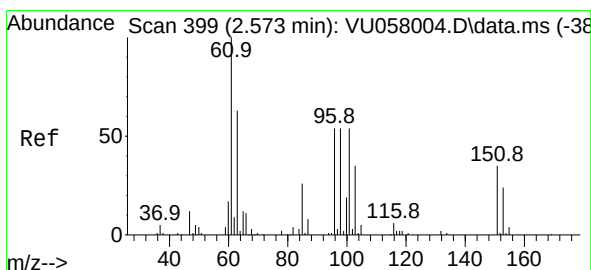
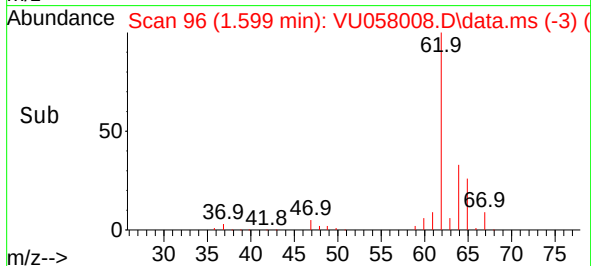
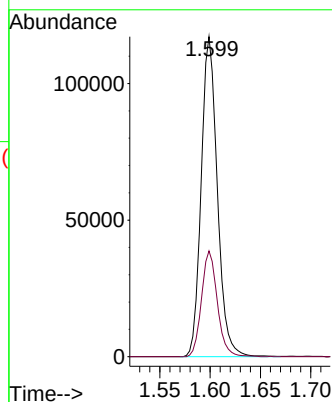
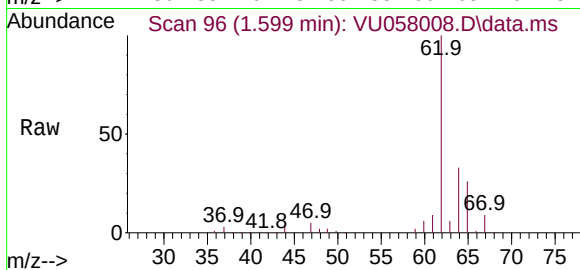
ClientSampleId :

Tgt Ion: 62 Resp: 130907

Ion Ratio Lower Upper

62 100

64 33.1 22.5 41.7



#12

1,1-Dichloroethene

Concen: 15.460 ug/L

RT: 2.573 min Scan# 399

Delta R.T. 0.000 min

Lab File: VU058008.D

Acq: 08 Mar 2024 11:36

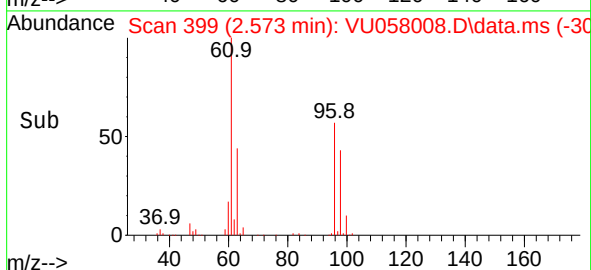
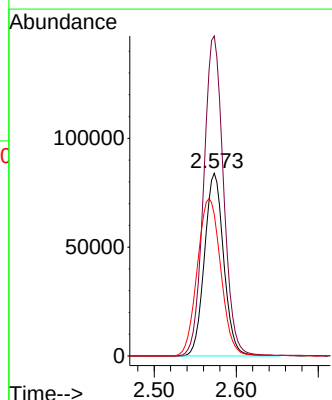
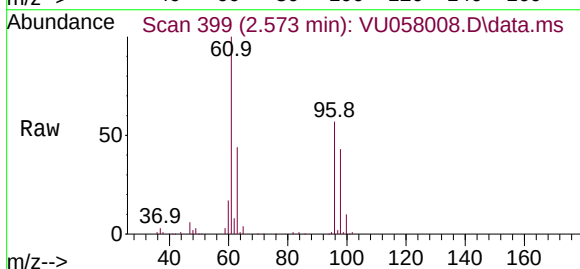
Tgt Ion: 96 Resp: 137094

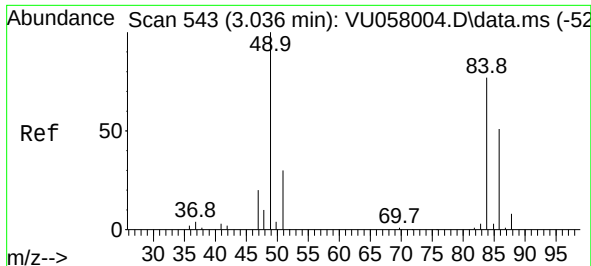
Ion Ratio Lower Upper

96 100

61 175.2 131.8 244.8

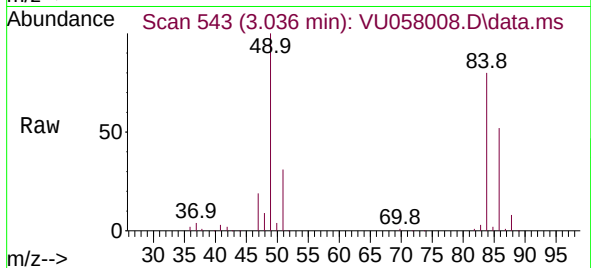
63 77.4 98.1 182.1#



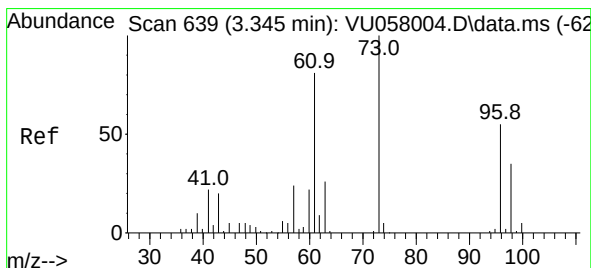
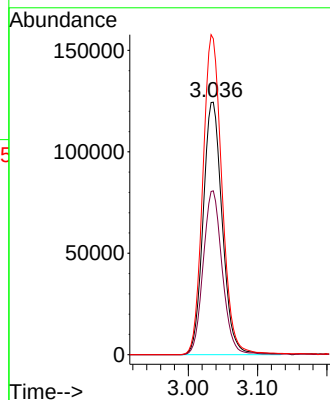
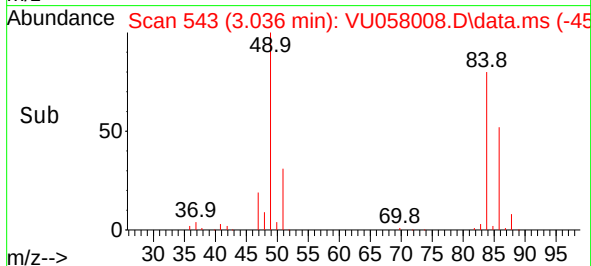


#16
Methylene chloride
Concen: 22.115 ug/L
RT: 3.036 min Scan# 543
Delta R.T. 0.000 min
Lab File: VU058008.D
Acq: 08 Mar 2024 11:36

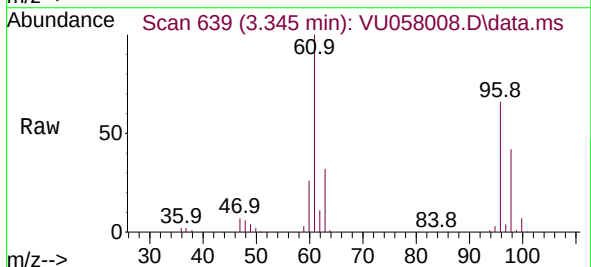
Instrument :
MSVOA_U
ClientSampleId :



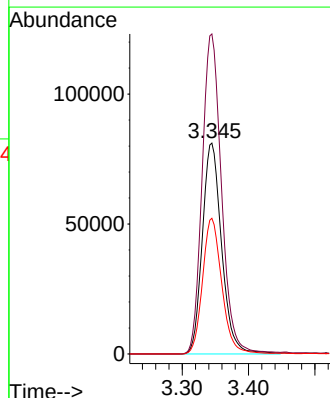
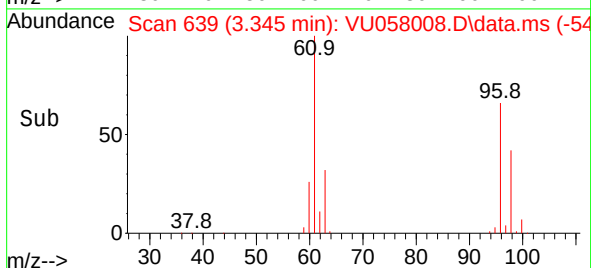
Tgt Ion: 84 Resp: 238349
Ion Ratio Lower Upper
84 100
86 64.9 44.4 82.4
49 125.1 88.8 165.0

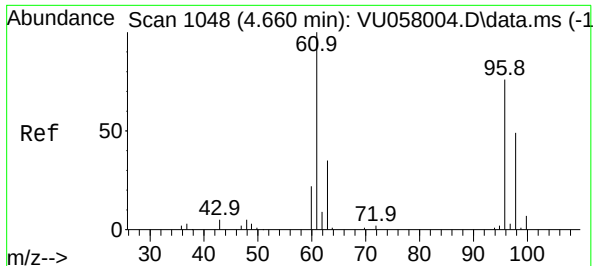


#18
trans-1,2-Dichloroethene
Concen: 17.003 ug/L
RT: 3.345 min Scan# 639
Delta R.T. 0.000 min
Lab File: VU058008.D
Acq: 08 Mar 2024 11:36



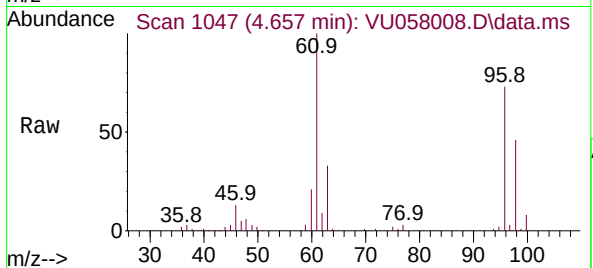
Tgt Ion: 96 Resp: 164233
Ion Ratio Lower Upper
96 100
61 151.7 107.7 199.9
98 64.3 45.8 85.0



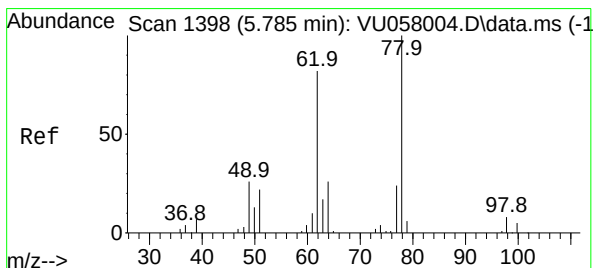
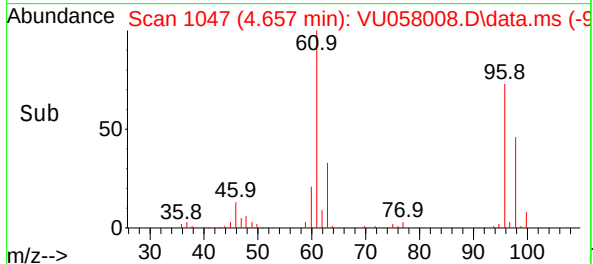
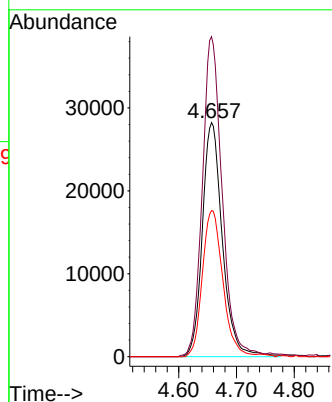


#22
cis-1,2-Dichloroethene
Concen: 6.401 ug/L
RT: 4.657 min Scan# 1047
Delta R.T. -0.003 min
Lab File: VU058008.D
Acq: 08 Mar 2024 11:36

Instrument :
MSVOA_U
ClientSampleId :

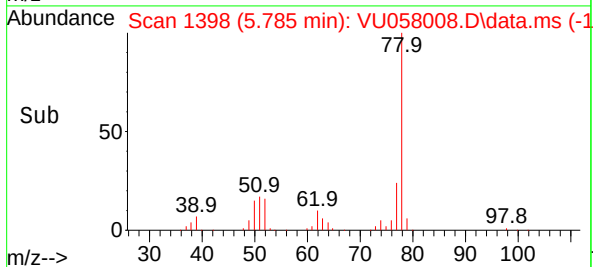
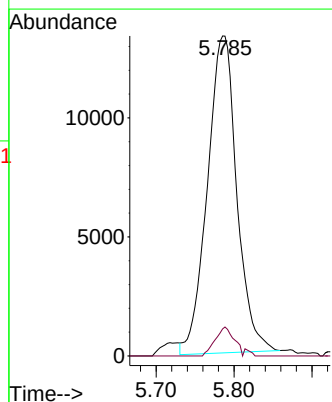
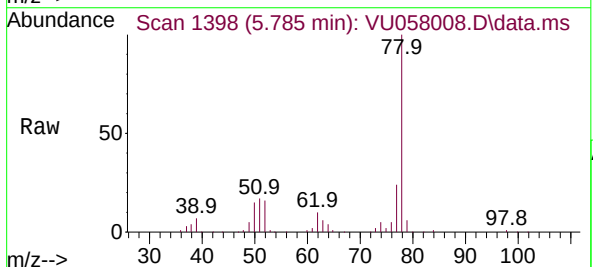


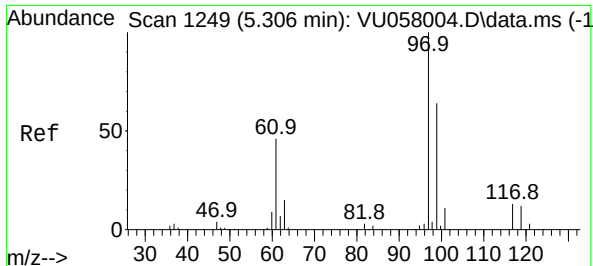
Tgt Ion: 96 Resp: 68011
Ion Ratio Lower Upper
96 100
61 131.8 97.2 180.4
98 60.2 45.5 84.5



#27
1,2-Dichloroethane
Concen: 3.214 ug/L
RT: 5.785 min Scan# 1398
Delta R.T. 0.000 min
Lab File: VU058008.D
Acq: 08 Mar 2024 11:36

Tgt Ion: 62 Resp: 35001
Ion Ratio Lower Upper
62 100
98 8.4 7.0 10.4

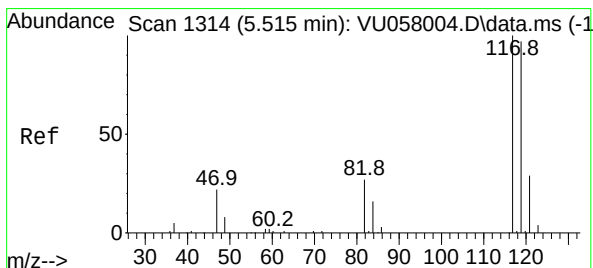
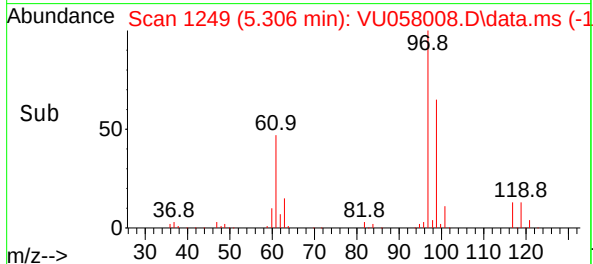
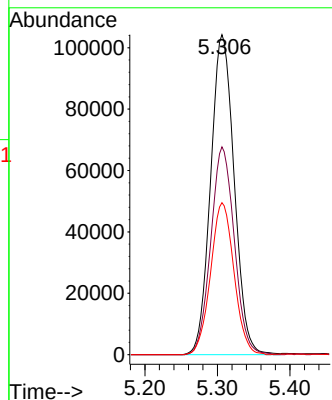
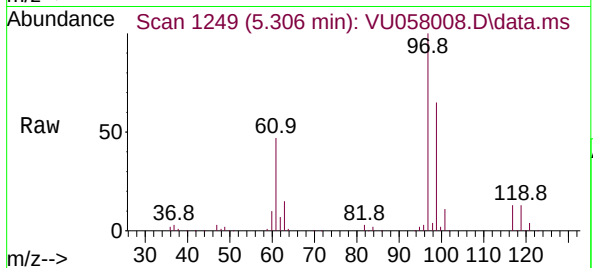




#29
1,1,1-Trichloroethane
Concen: 14.356 ug/L
RT: 5.306 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VU058008.D
Acq: 08 Mar 2024 11:36

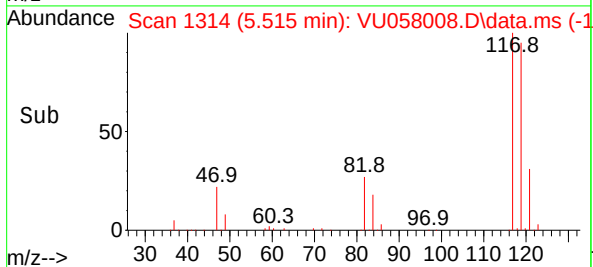
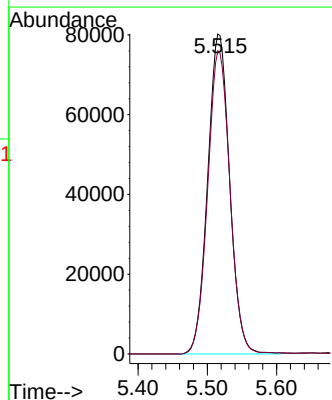
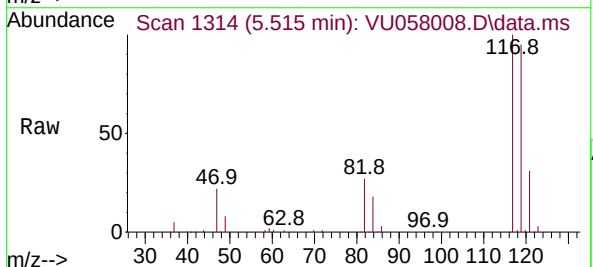
Instrument :
MSVOA_U
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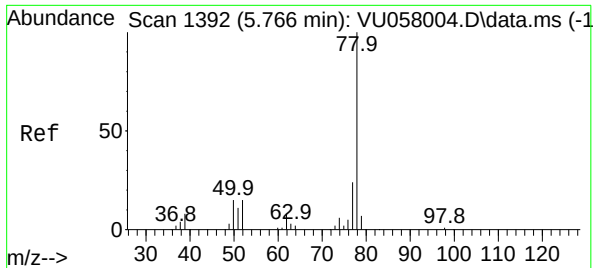
Tgt Ion: 97 Resp: 235373
Ion Ratio Lower Upper
97 100
99 64.9 51.2 76.8
61 47.2 37.4 56.2



#31
Carbon tetrachloride
Concen: 12.395 ug/L
RT: 5.515 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VU058008.D
Acq: 08 Mar 2024 11:36

Tgt Ion: 117 Resp: 176590
Ion Ratio Lower Upper
117 100
119 96.2 75.8 113.8

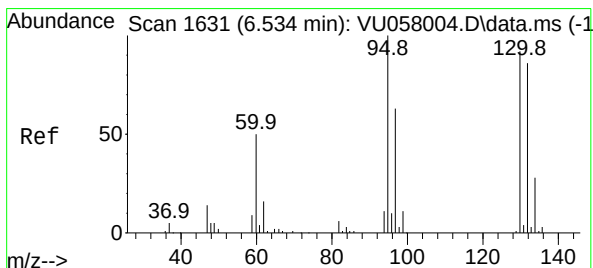
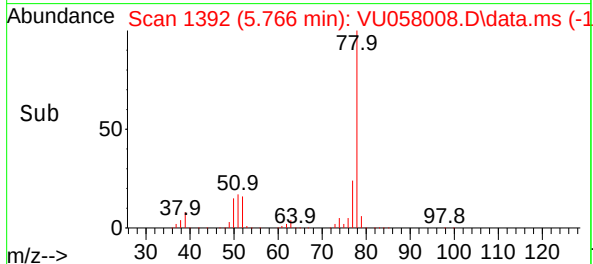
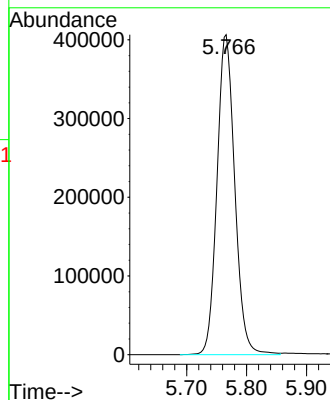
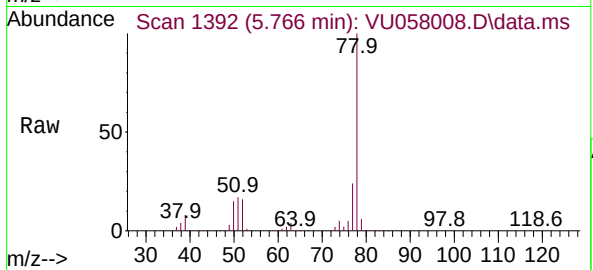




#33
Benzene
Concen: 19.741 ug/L
RT: 5.766 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VU058008.D
Acq: 08 Mar 2024 11:36

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ClientSampleId :

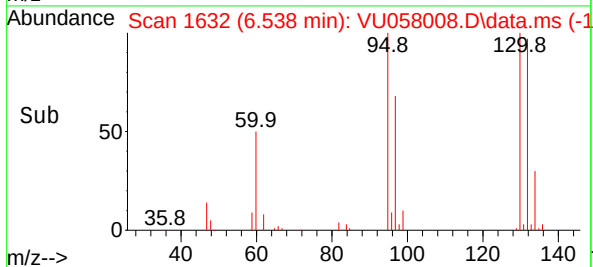
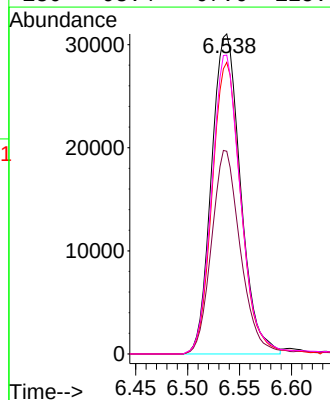
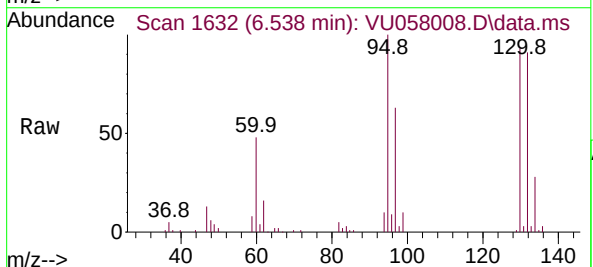
Tgt Ion: 78 Resp: 834452

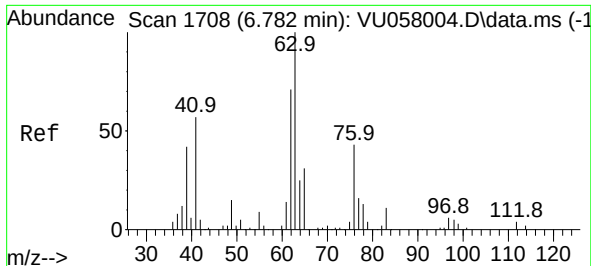


#34
Trichloroethene
Concen: 5.423 ug/L
RT: 6.538 min Scan# 1632
Delta R.T. 0.003 min
Lab File: VU058008.D
Acq: 08 Mar 2024 11:36

Tgt Ion: 95 Resp: 60317

Ion	Ratio	Lower	Upper
95	100		
97	63.3	45.3	84.1
132	91.1	63.1	117.1
130	93.4	67.6	125.6

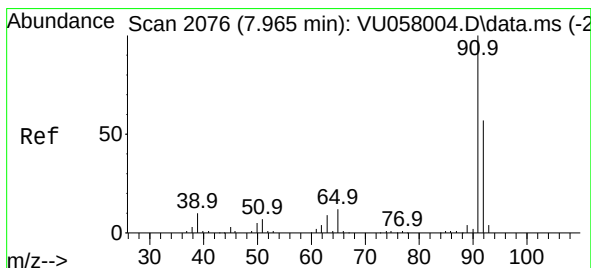
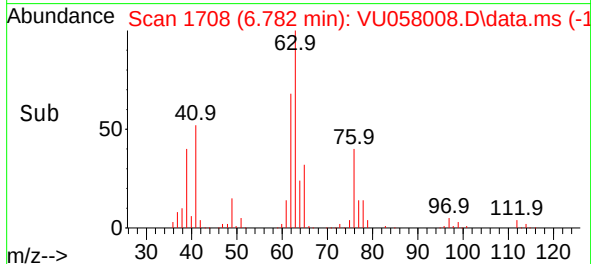
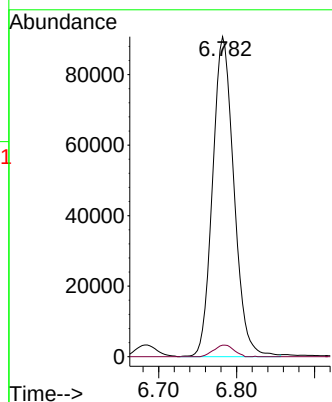
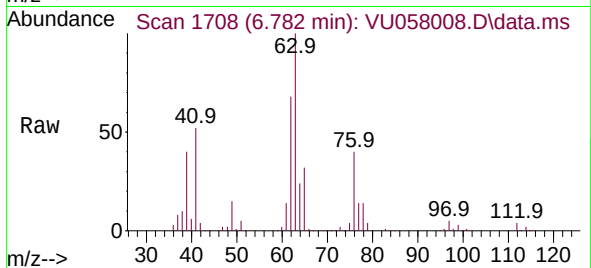




#37
1,2-Dichloropropane
Concen: 15.878 ug/L
RT: 6.782 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU058008.D
Acq: 08 Mar 2024 11:36

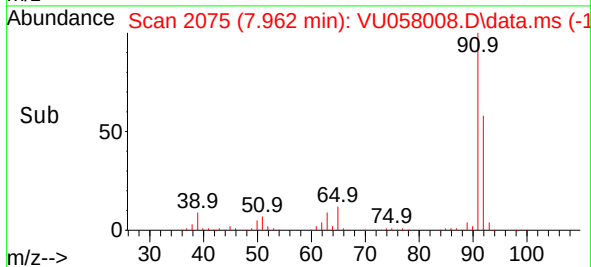
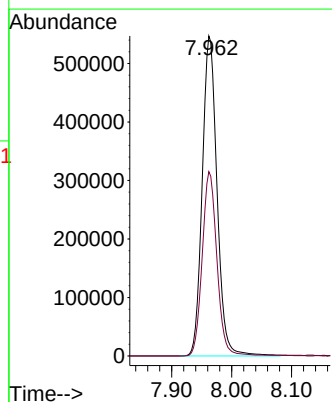
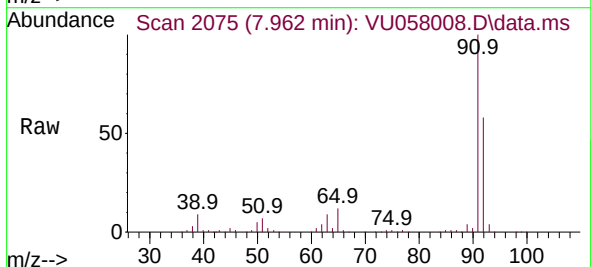
Instrument :
MSVOA_U
ClientSampleId :

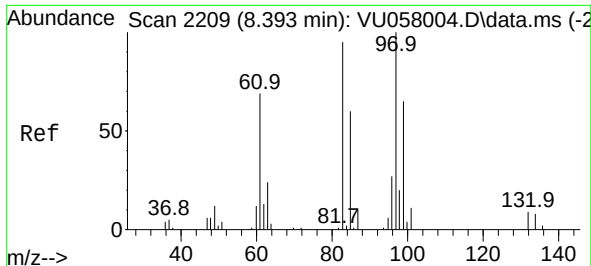
Tgt Ion: 63 Resp: 173060
Ion Ratio Lower Upper
63 100
112 3.4 3.0 4.4



#42
Toluene
Concen: 21.398 ug/L
RT: 7.962 min Scan# 2075
Delta R.T. -0.003 min
Lab File: VU058008.D
Acq: 08 Mar 2024 11:36

Tgt Ion: 91 Resp: 941927
Ion Ratio Lower Upper
91 100
92 57.6 40.2 74.6





#45

1,1,2-Trichloroethane

Concen: 4.412 ug/L

RT: 8.393 min Scan# 2209

Delta R.T. 0.000 min

Lab File: VU058008.D

Acq: 08 Mar 2024 11:36

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 97 Resp: 28512

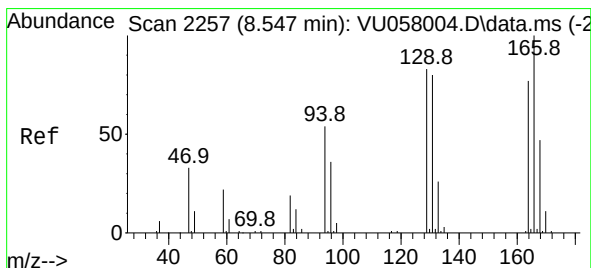
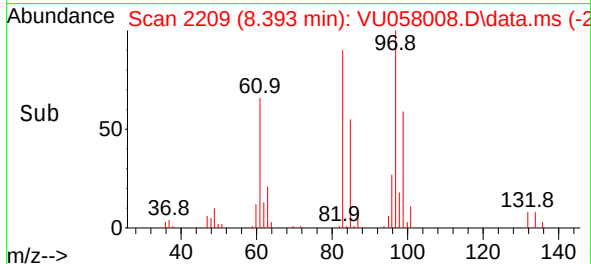
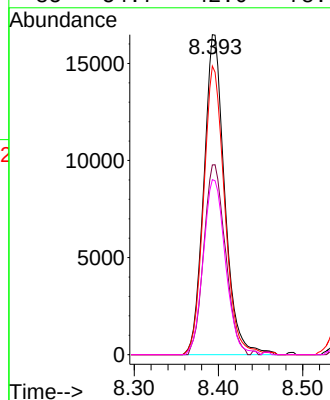
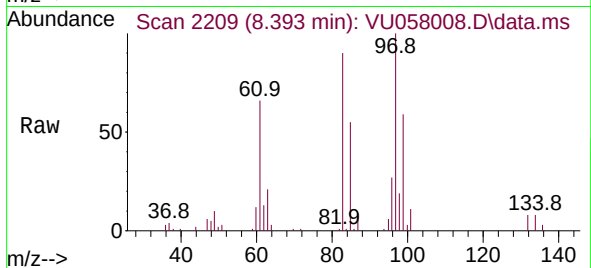
Ion Ratio Lower Upper

97 100

99 59.3 44.2 82.2

83 90.2 64.2 119.2

85 54.7 42.0 78.0



#47

Tetrachloroethene

Concen: 15.766 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. 0.000 min

Lab File: VU058008.D

Acq: 08 Mar 2024 11:36

Tgt Ion:164 Resp: 121654

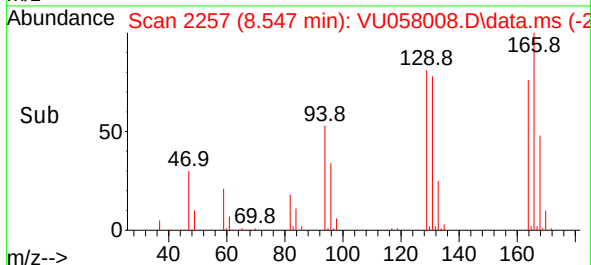
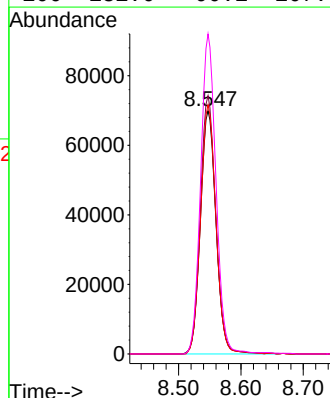
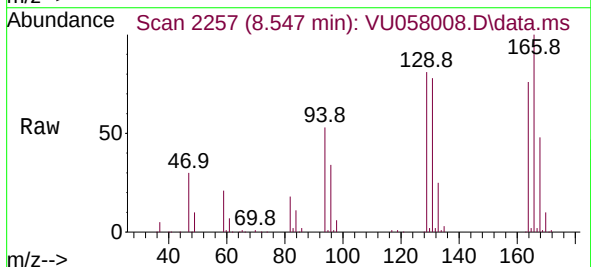
Ion Ratio Lower Upper

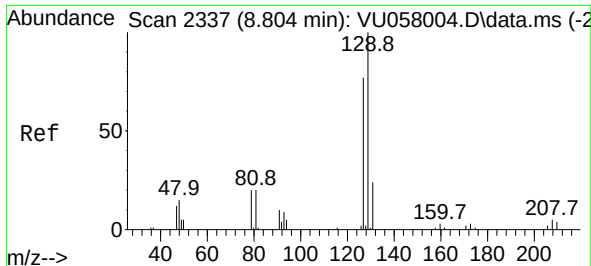
164 100

129 106.1 69.3 128.7

131 102.4 69.9 129.9

166 131.6 90.1 167.3





#49

Dibromochloromethane

Concen: 16.395 ug/L

RT: 8.547 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU058008.D

Acq: 08 Mar 2024 11:36

Instrument :

MSVOA_U

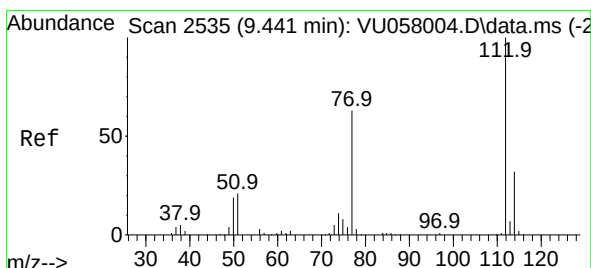
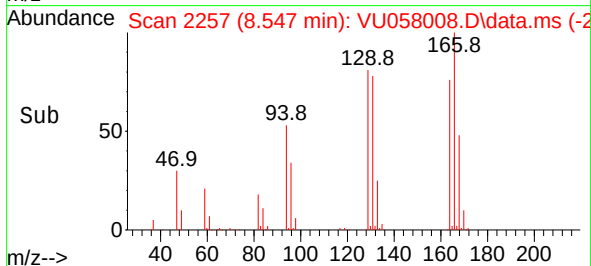
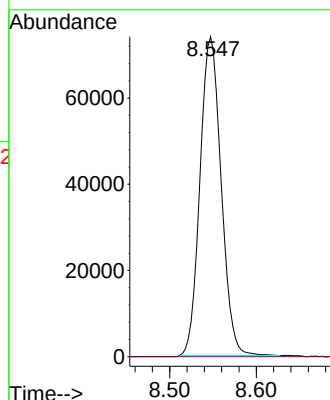
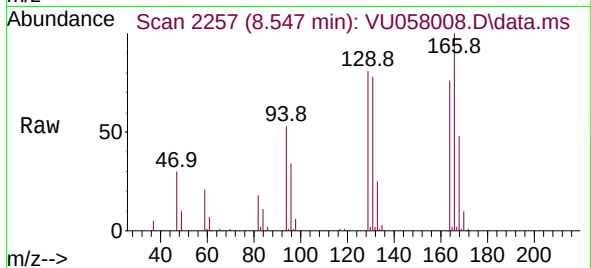
ClientSampleId :

Tgt Ion:129 Resp: 125422

Ion Ratio Lower Upper

129 100

127 0.0 55.2 102.6#



#51

Chlorobenzene

Concen: 12.813 ug/L

RT: 9.441 min Scan# 2535

Delta R.T. 0.000 min

Lab File: VU058008.D

Acq: 08 Mar 2024 11:36

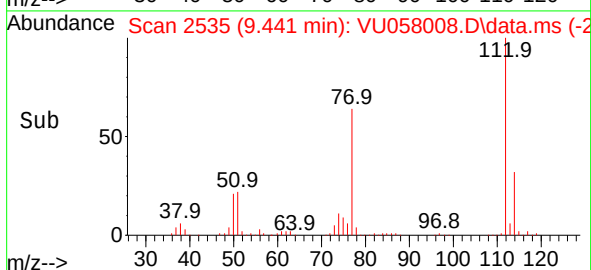
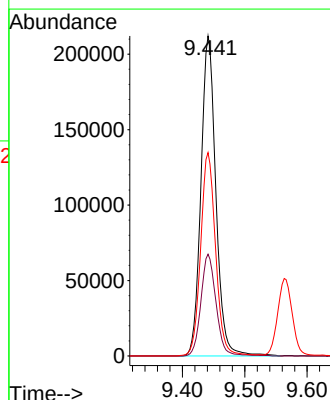
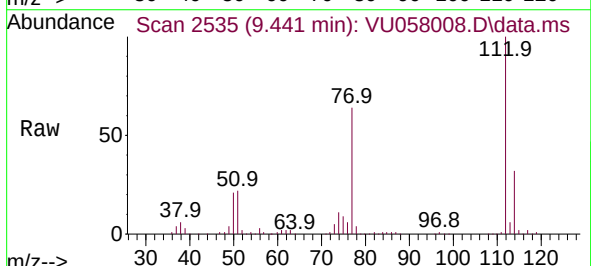
Tgt Ion:112 Resp: 353696

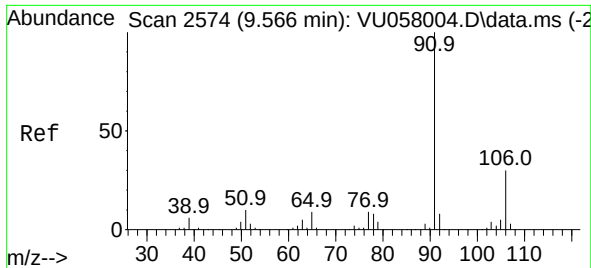
Ion Ratio Lower Upper

112 100

114 31.8 22.7 42.1

77 63.5 52.3 78.5

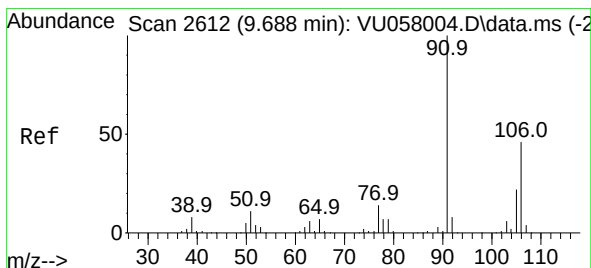
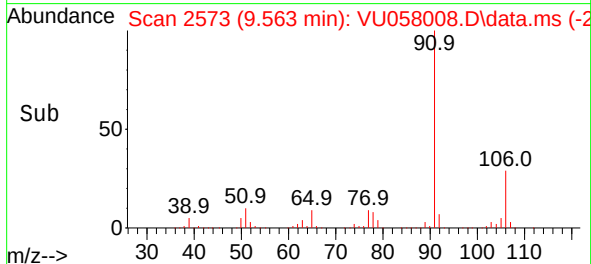
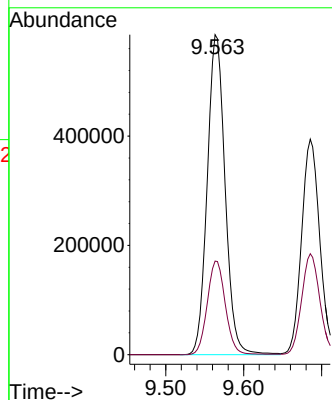
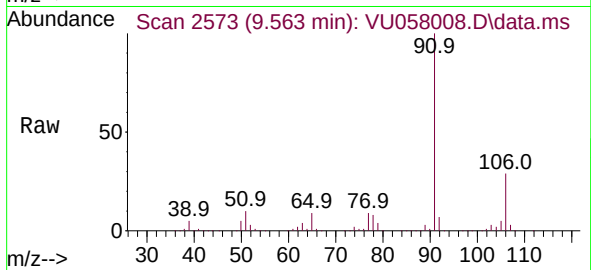




#52
Ethylbenzene
Concen: 18.922 ug/L
RT: 9.563 min Scan# 2574
Delta R.T. -0.003 min
Lab File: VU058008.D
Acq: 08 Mar 2024 11:36

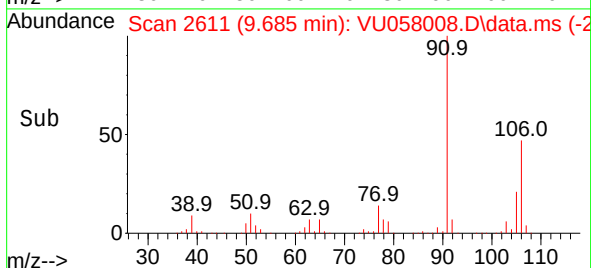
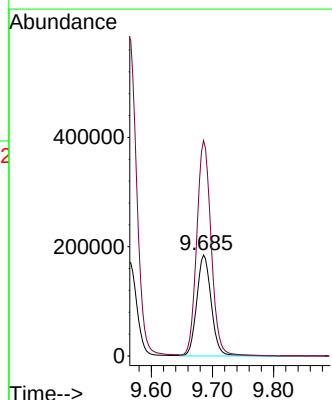
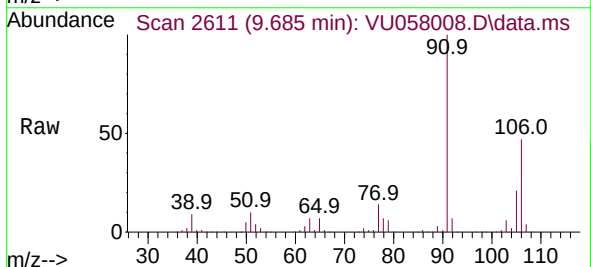
Instrument :
MSVOA_U
ClientSampleId :

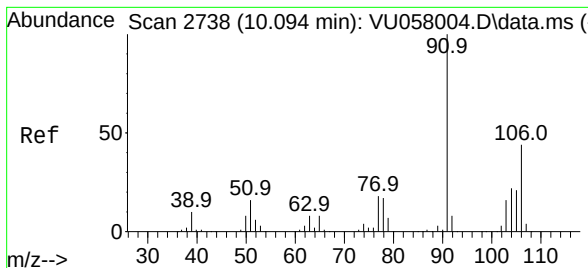
Tgt Ion: 91 Resp: 932121
Ion Ratio Lower Upper
91 100
106 29.3 20.9 38.7



#53
m,p-Xylene
Concen: 17.254 ug/L
RT: 9.685 min Scan# 2611
Delta R.T. -0.003 min
Lab File: VU058008.D
Acq: 08 Mar 2024 11:36

Tgt Ion:106 Resp: 303667
Ion Ratio Lower Upper
106 100
91 213.4 148.8 276.4

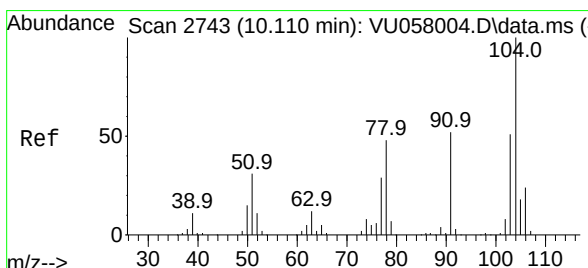
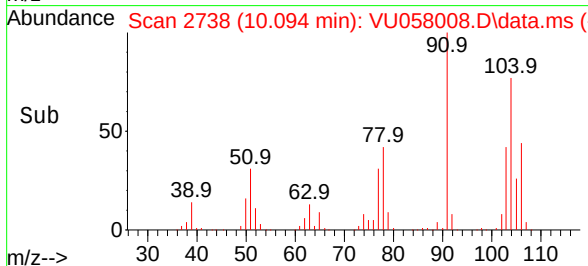
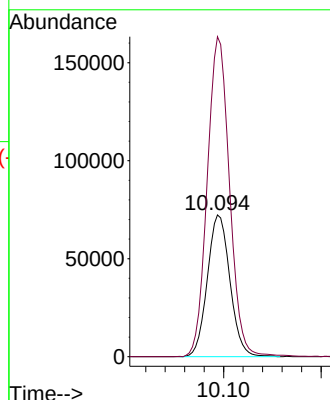
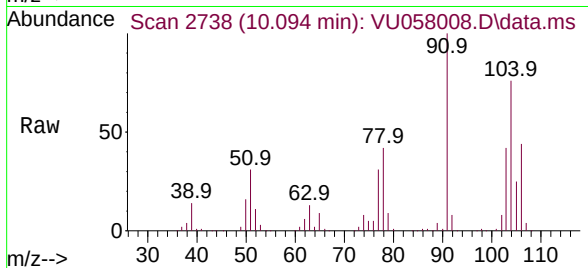




#54
o-Xylene
Concen: 6.646 ug/L
RT: 10.094 min Scan# 2738
Delta R.T. 0.000 min
Lab File: VU058008.D
Acq: 08 Mar 2024 11:36

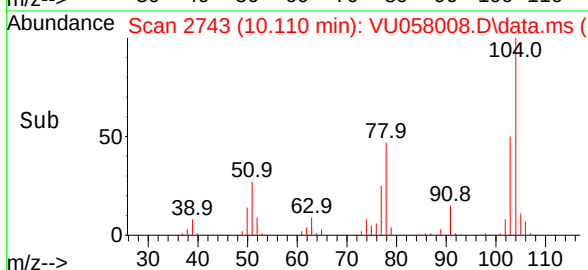
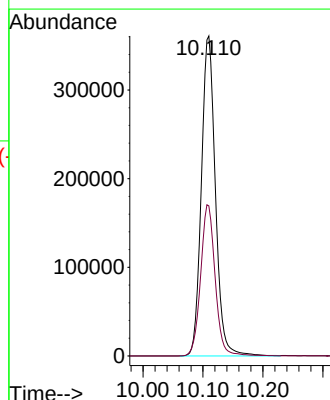
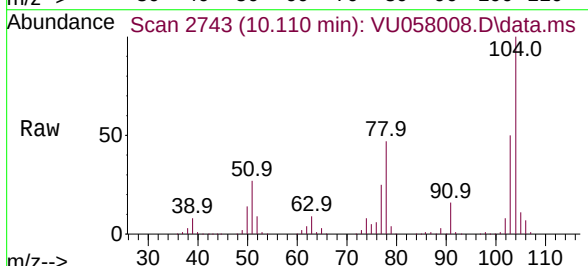
Instrument :
MSVOA_U
ClientSampleId :

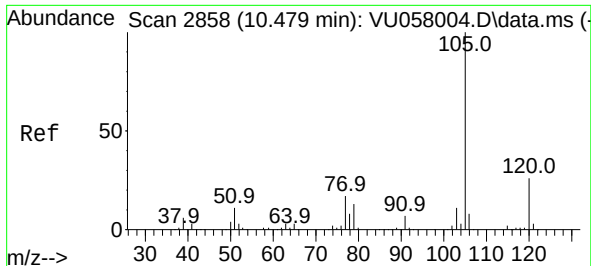
Tgt Ion:106 Resp: 116571
Ion Ratio Lower Upper
106 100
91 225.7 158.3 294.1



#55
Styrene
Concen: 21.455 ug/L
RT: 10.110 min Scan# 2743
Delta R.T. 0.000 min
Lab File: VU058008.D
Acq: 08 Mar 2024 11:36

Tgt Ion:104 Resp: 590675
Ion Ratio Lower Upper
104 100
78 46.9 34.2 63.4

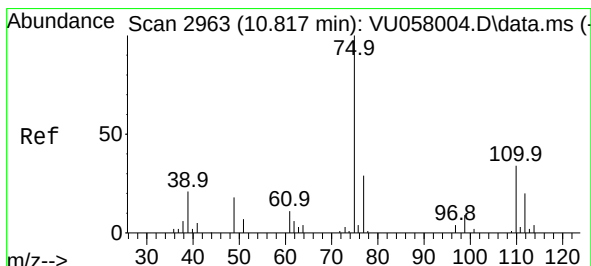
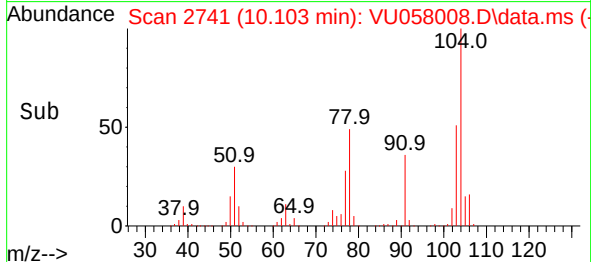
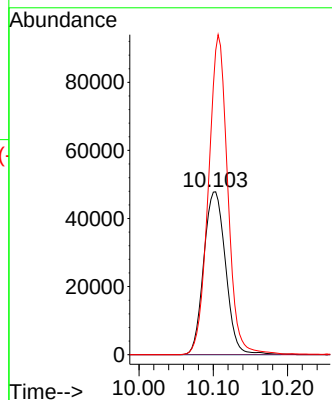
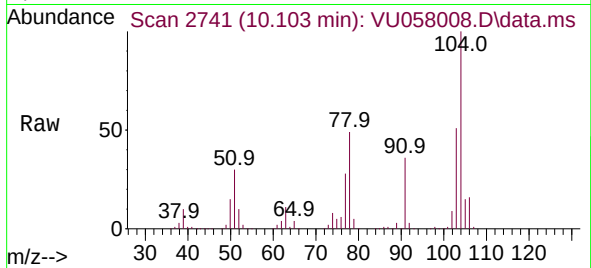




#60
Isopropylbenzene
Concen: 2.208 ug/L
RT: 10.103 min Scan# 21
Delta R.T. -0.376 min
Lab File: VU058008.D
Acq: 08 Mar 2024 11:36

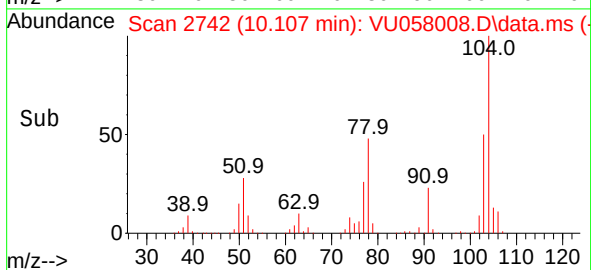
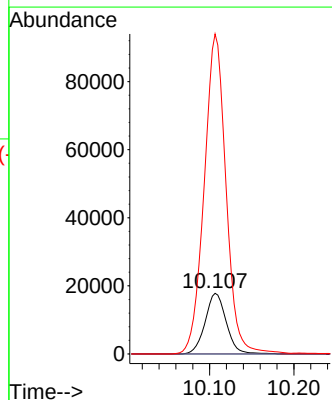
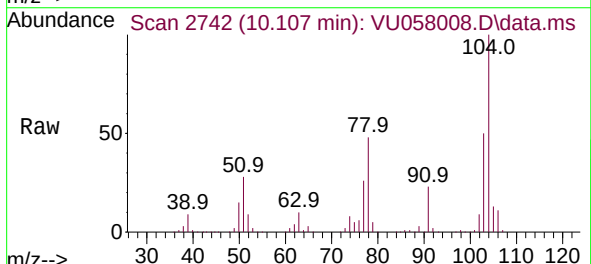
Instrument :
MSVOA_U
ClientSampleId :

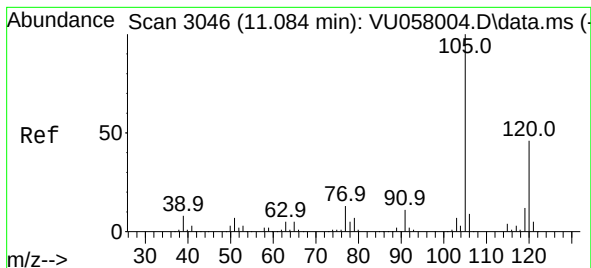
Tgt Ion:105 Resp: 97731
Ion Ratio Lower Upper
105 100
120 0.0 20.4 30.6#
77 173.6 13.2 19.8#



#61
1,2,3-Trichloropropane
Concen: 5.710 ug/L
RT: 10.107 min Scan# 2742
Delta R.T. -0.710 min
Lab File: VU058008.D
Acq: 08 Mar 2024 11:36

Tgt Ion: 75 Resp: 31090
Ion Ratio Lower Upper
75 100
110 0.0 28.0 42.0#
77 545.6 24.7 37.1#

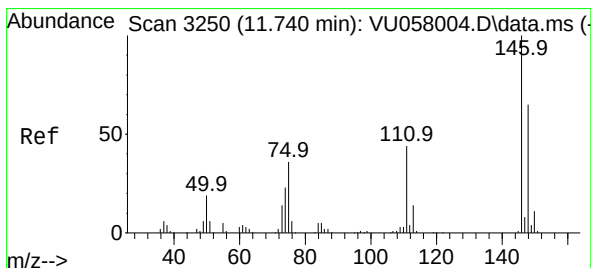
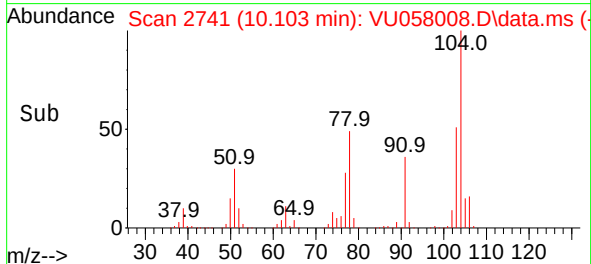
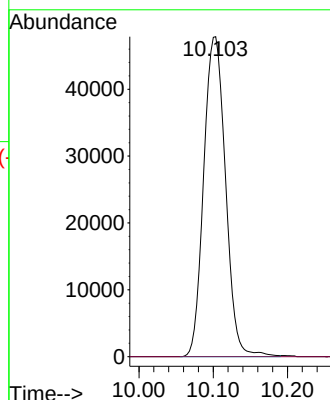
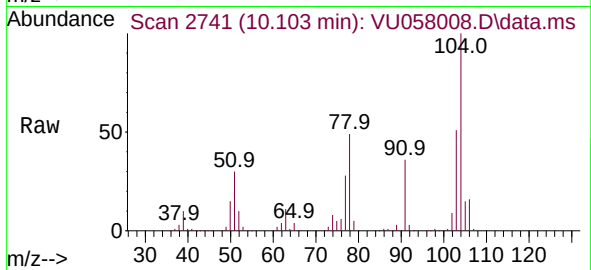




#62
1,3,5-Trimethylbenzene
Concen: 2.618 ug/L
RT: 10.103 min Scan# 21
Delta R.T. -0.981 min
Lab File: VU058008.D
Acq: 08 Mar 2024 11:36

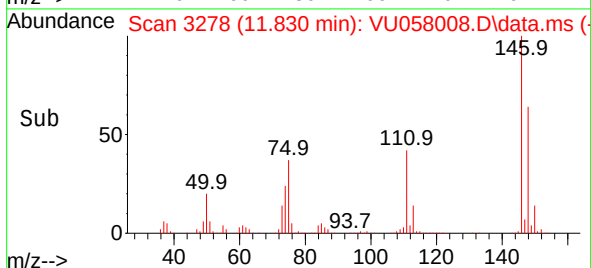
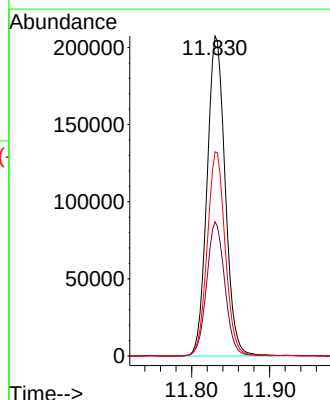
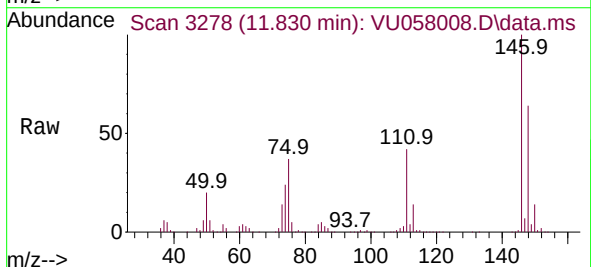
Instrument :
MSVOA_U
ClientSampleId :

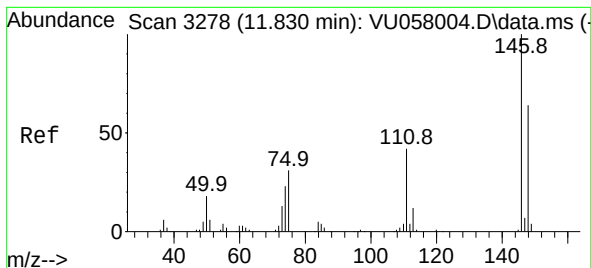
Tgt Ion:105 Resp: 97731
Ion Ratio Lower Upper
105 100
120 0.0 37.1 55.7#



#64
1,3-Dichlorobenzene
Concen: 16.610 ug/L
RT: 11.830 min Scan# 3278
Delta R.T. 0.090 min
Lab File: VU058008.D
Acq: 08 Mar 2024 11:36

Tgt Ion:146 Resp: 334199
Ion Ratio Lower Upper
146 100
111 42.0 30.9 57.5
148 63.8 45.4 84.4





#65

1,4-Dichlorobenzene

Concen: 16.970 ug/L

RT: 11.830 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU058008.D

Acq: 08 Mar 2024 11:36

Instrument :

MSVOA_U

ClientSampleId :

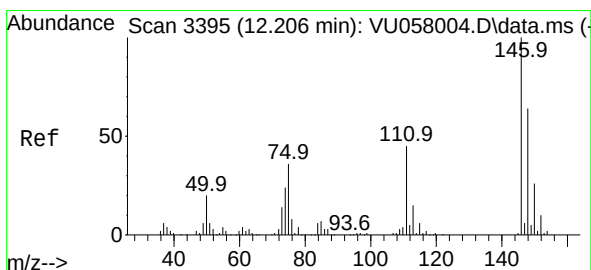
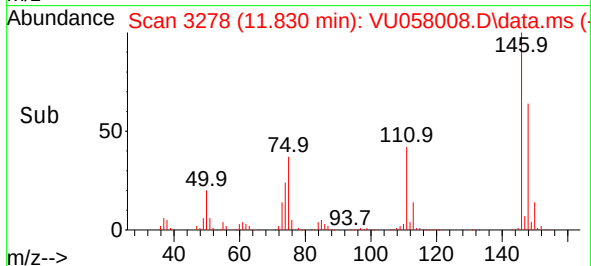
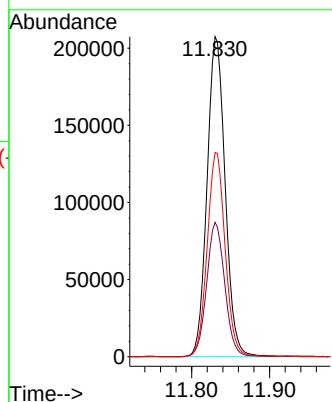
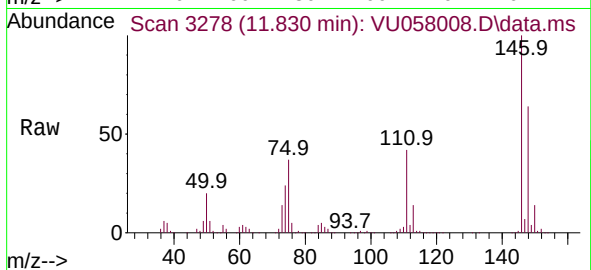
Tgt Ion:146 Resp: 334199

Ion Ratio Lower Upper

146 100

111 42.0 30.1 55.9

148 63.8 45.0 83.6



#67

1,2-Dichlorobenzene

Concen: 17.829 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. 0.000 min

Lab File: VU058008.D

Acq: 08 Mar 2024 11:36

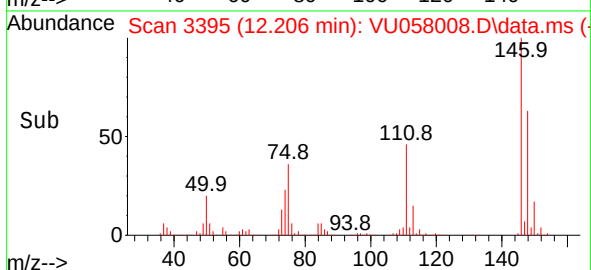
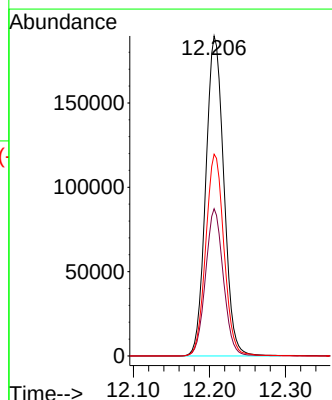
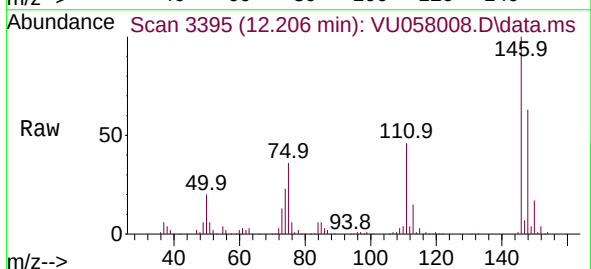
Tgt Ion:146 Resp: 313176

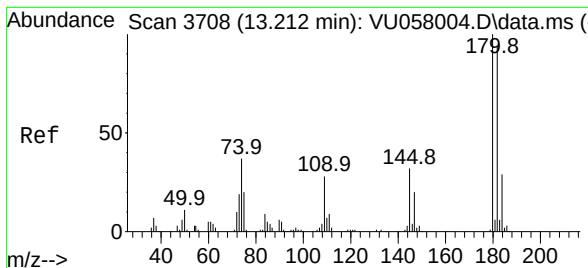
Ion Ratio Lower Upper

146 100

111 46.0 37.4 56.0

148 63.0 50.8 76.2





#69

1,3,5-Trichlorobenzene

Concen: 5.551 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.624 min

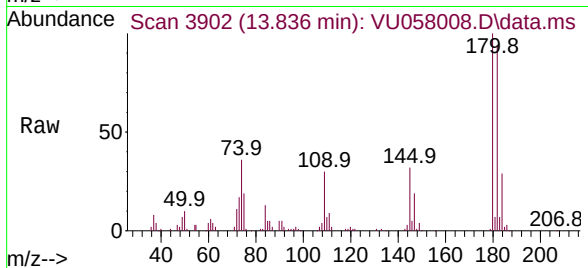
Lab File: VU058008.D

Acq: 08 Mar 2024 11:36

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 80341

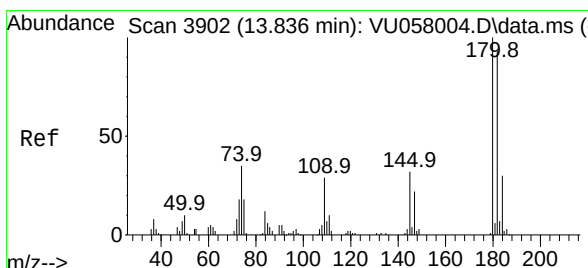
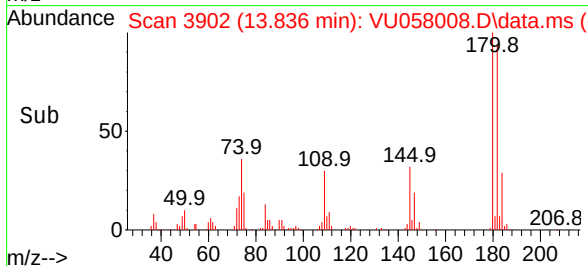
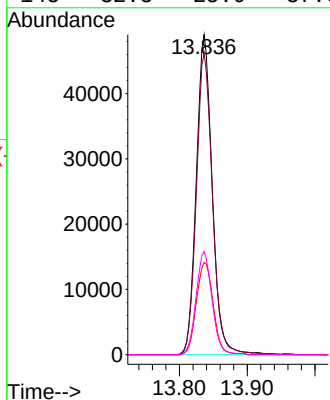
Ion Ratio Lower Upper

180 100

182 94.7 76.3 114.5

184 30.2 24.6 36.8

145 32.3 25.0 37.6



#70

1,2,4-trichlorobenzene

Concen: 7.388 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.000 min

Lab File: VU058008.D

Acq: 08 Mar 2024 11:36

Tgt Ion:180 Resp: 80341

Ion Ratio Lower Upper

180 100

182 94.7 77.9 116.9

145 32.3 25.8 38.8

