

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW101922\
 Data File : VW024938.D
 Acq On : 19 Oct 2022 15:00
 Operator : SY/VA
 Sample : N4757-01
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 DBWK8

Quant Time: Oct 20 02:00:02 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM101222SMA.M
 Quant Title : SFAM01.0
 QLast Update : Thu Oct 20 01:56:31 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	444509	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.628	117	406634	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	206157	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.355	65	95969	18.300	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	73.200%
7) Chloroethane-d5	2.885	69	57963	18.878	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	75.520%
11) 1,1-Dichloroethene-d2	4.019	63	207044	18.158	ug/L	-0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	72.640%
21) 2-Butanone-d5	7.074	46	72017	43.341	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	86.680%
24) Chloroform-d	7.647	84	252431	20.134	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	80.520%
26) 1,2-Dichloroethane-d4	8.305	65	131095	19.979	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	79.920%
32) Benzene-d6	8.275	84	505681	19.831	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	79.320%
36) 1,2-Dichloropropane-d6	9.274	67	154605	19.768	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	79.080%
41) Toluene-d8	10.323	98	454496	19.859	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	79.440%
43) trans-1,3-Dichloroprop...	10.579	79	59934	20.206	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	80.840%
47) 2-Hexanone-d5	10.921	63	54800	41.793	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	83.580%
56) 1,1,2,2-Tetrachloroeth...	12.689	84	124796	20.461	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	81.840%
66) 1,2-Dichlorobenzene-d4	13.853	152	148726	19.741	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	78.960%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.008	85	18981	9.544	ug/L	99
3) Chloromethane	2.221	50	62093	13.406	ug/L	99
5) Vinyl chloride	2.361	62	169160	26.769	ug/L	99
6) Bromomethane	2.776	94	35911	11.700	ug/L	97
8) Chloroethane	2.922	64	23448	8.905	ug/L	98
9) Trichlorofluoromethane	3.257	101	36823	11.780	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	4.062	101	141243	22.193	ug/L	98
12) 1,1-Dichloroethene	4.038	96	97806	16.241	ug/L	90
15) Methyl Acetate	4.672	43	72254	25.534	ug/L	99
16) Methylene chloride	4.916	84	153640	19.576	ug/L	94
18) Methyl tert-butyl Ether	5.428	73	413809	42.480	ug/L	99
22) 2-Butanone	7.171	43	151233	77.966	ug/L	96
25) Chloroform	7.677	83	239439	20.114	ug/L	100
29) Cyclohexane	7.958	56	245893	20.822	ug/L	99
33) Benzene	8.323	78	1146319	41.437	ug/L	100
34) Trichloroethene	9.092	95	372679	53.493	ug/L	97
42) Toluene	10.384	91	1453463	51.244	ug/L	97
45) 1,1,2-Trichloroethane	10.786	97	97484	20.243	ug/L	99
46) Tetrachloroethene	10.860	164	52483	11.079	ug/L	90

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

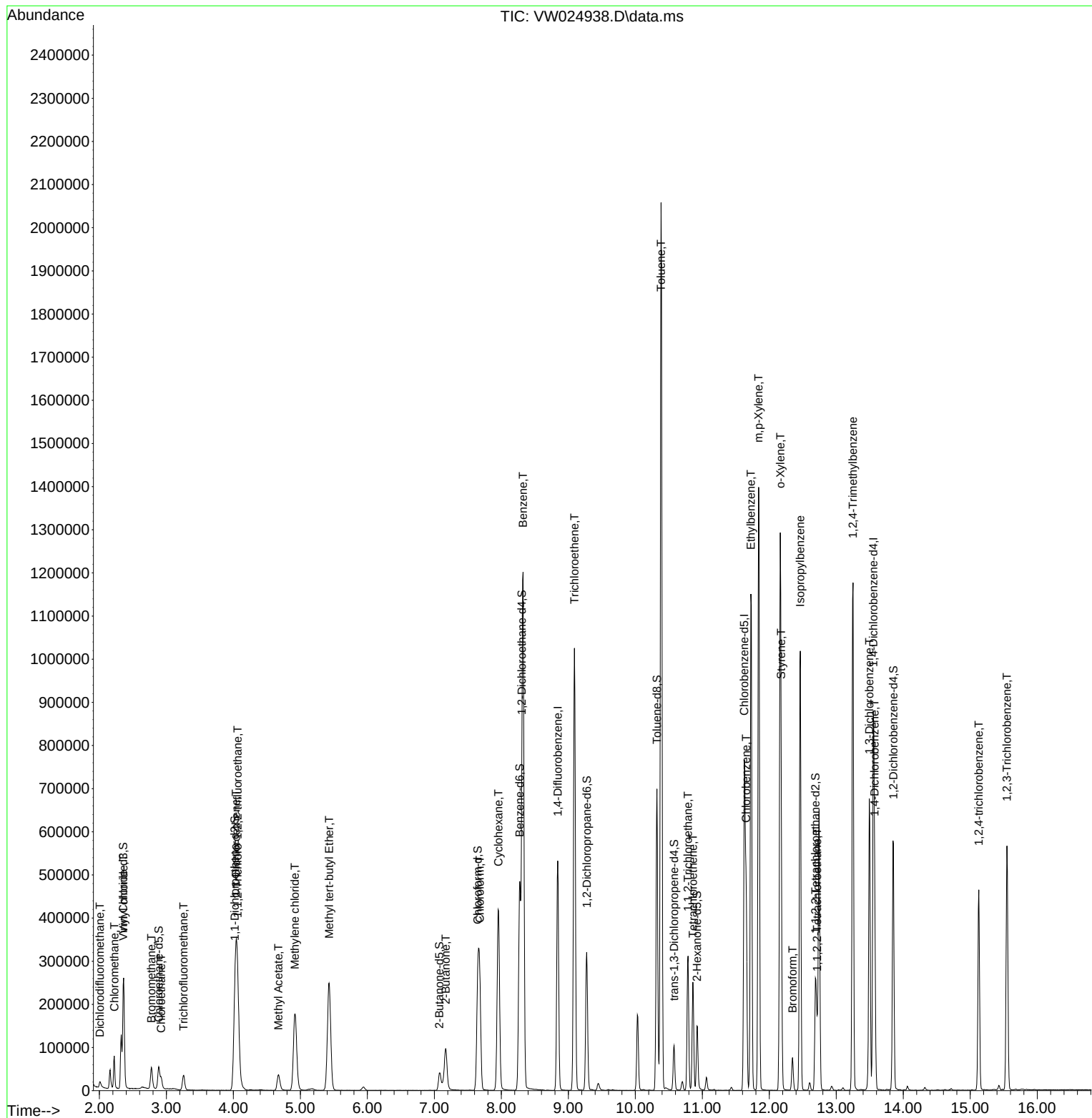
51) Chlorobenzene	11.652	112	227828	12.780	ug/L	98
52) Ethylbenzene	11.725	91	833683	26.248	ug/L	97
53) m,p-Xylene	11.841	106	376305	31.184	ug/L	94
54) o-Xylene	12.164	106	299157	26.037	ug/L	93
55) Styrene	12.176	104	195081	9.899	ug/L	89
57) 1,1,2,2-Tetrachloroethane	12.713	83	71908	12.239	ug/L	98
59) Bromoform	12.347	173	32687	11.849	ug/L #	97
60) Isopropylbenzene	12.463	105	653554	19.653	ug/L	100
63) 1,2,4-Trimethylbenzene	13.249	105	660675	24.000	ug/L	97
64) 1,3-Dichlorobenzene	13.493	146	265487	19.603	ug/L	99
65) 1,4-Dichlorobenzene	13.573	146	134295	9.796	ug/L	95
70) 1,2,4-trichlorobenzene	15.127	180	137674	19.190	ug/L	95
72) 1,2,3-Trichlorobenzene	15.548	180	182528	29.807	ug/L	97

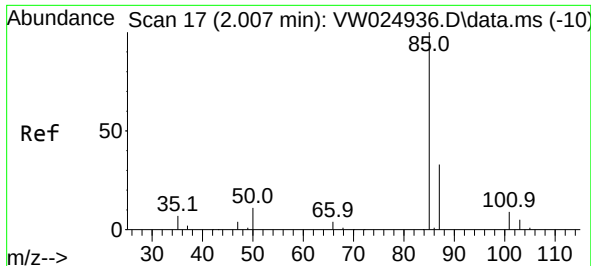
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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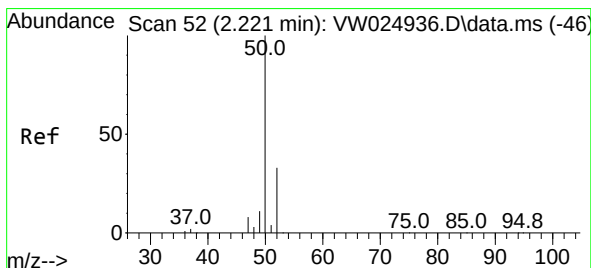
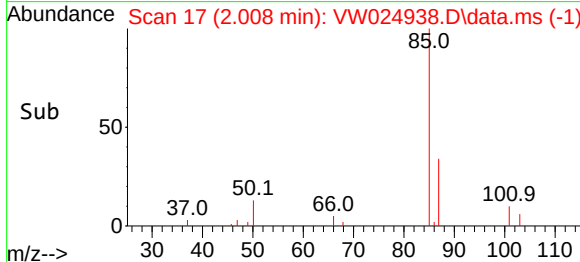
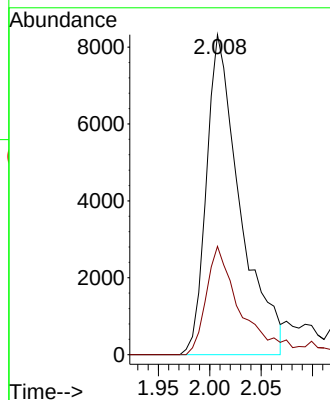
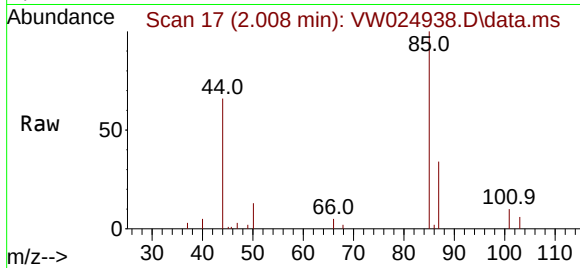




#2
 Dichlorodifluoromethane
 Concen: 9.544 ug/L
 RT: 2.008 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VW024938.D
 Acq: 19 Oct 2022 15:00

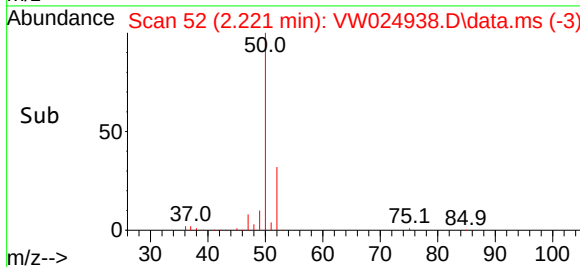
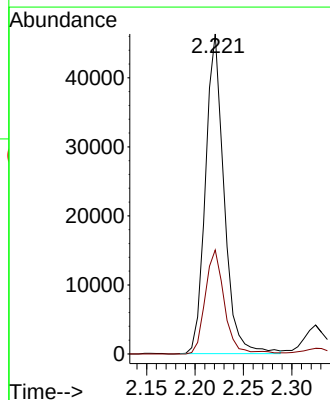
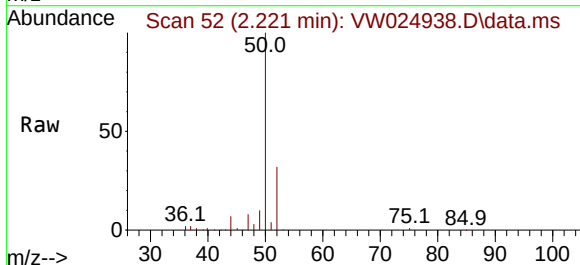
Instrument :
 MSVOA_W
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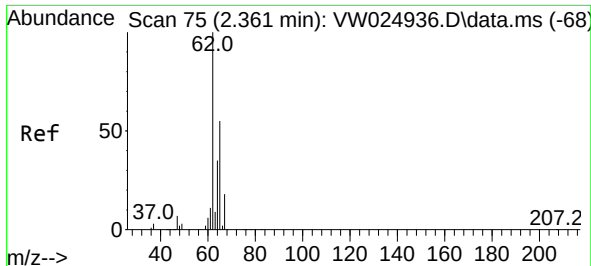
Tgt Ion: 85 Resp: 18981
 Ion Ratio Lower Upper
 85 100
 87 34.1 26.8 40.2



#3
 Chloromethane
 Concen: 13.406 ug/L
 RT: 2.221 min Scan# 52
 Delta R.T. 0.000 min
 Lab File: VW024938.D
 Acq: 19 Oct 2022 15:00

Tgt Ion: 50 Resp: 62093
 Ion Ratio Lower Upper
 50 100
 52 32.5 23.1 42.9

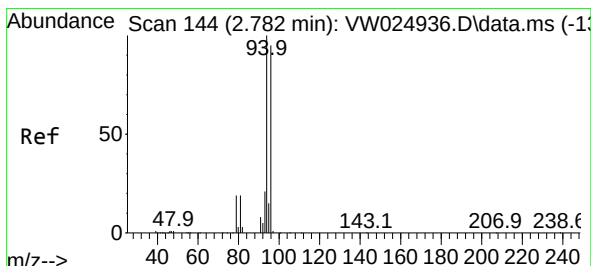
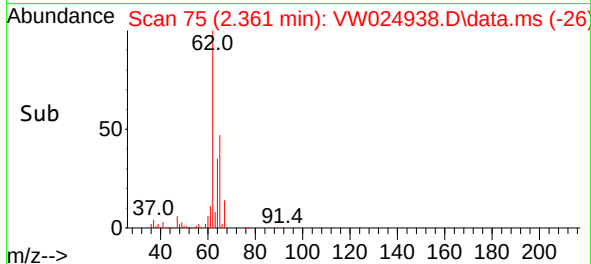
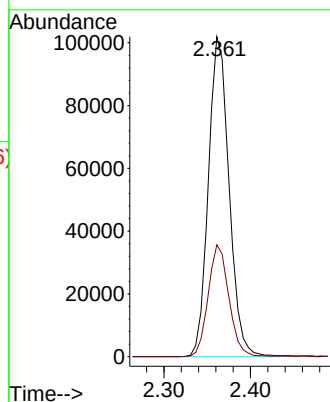
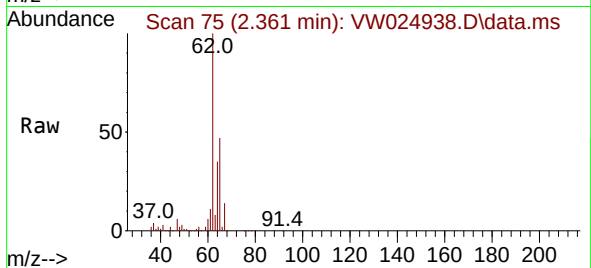




#5
 Vinyl chloride
 Concen: 26.769 ug/L
 RT: 2.361 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: VW024938.D
 Acq: 19 Oct 2022 15:00

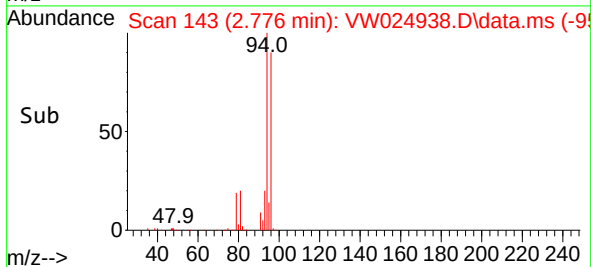
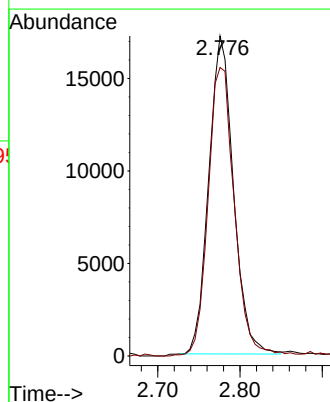
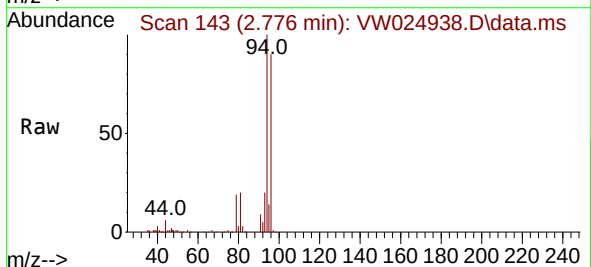
Instrument :
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 ClientSampleId :
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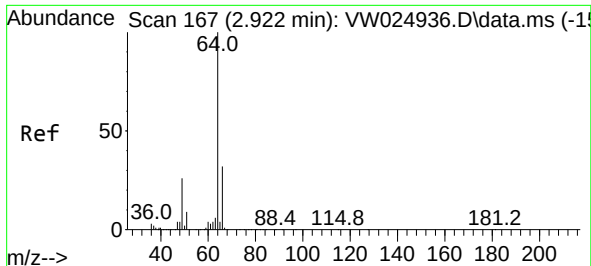
Tgt Ion: 62 Resp: 169160
 Ion Ratio Lower Upper
 62 100
 64 34.9 24.7 45.9



#6
 Bromomethane
 Concen: 11.700 ug/L
 RT: 2.776 min Scan# 143
 Delta R.T. -0.006 min
 Lab File: VW024938.D
 Acq: 19 Oct 2022 15:00

Tgt Ion: 94 Resp: 35911
 Ion Ratio Lower Upper
 94 100
 96 90.2 61.4 114.0

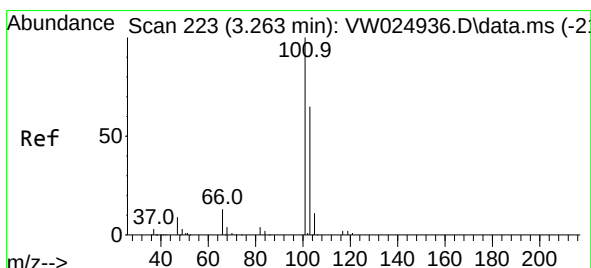
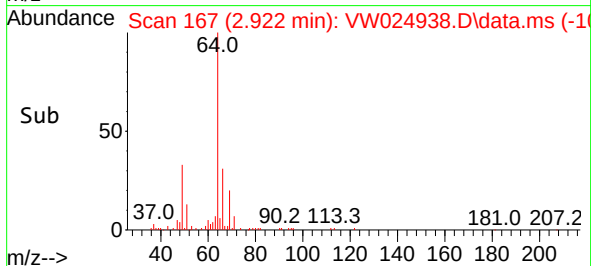
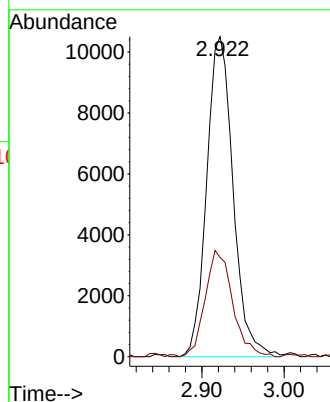
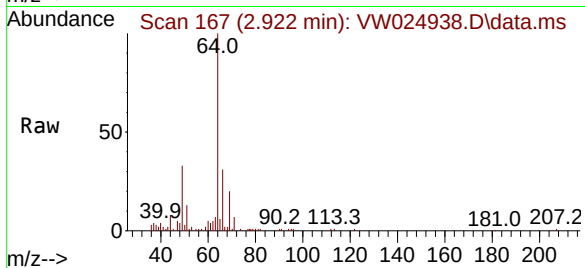




#8
Chloroethane
Concen: 8.905 ug/L
RT: 2.922 min Scan# 167
Delta R.T. 0.000 min
Lab File: VW024938.D
Acq: 19 Oct 2022 15:00

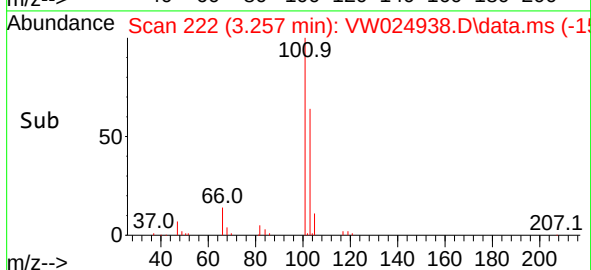
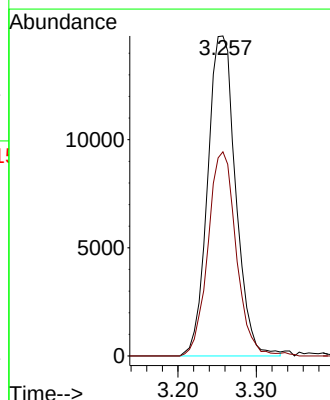
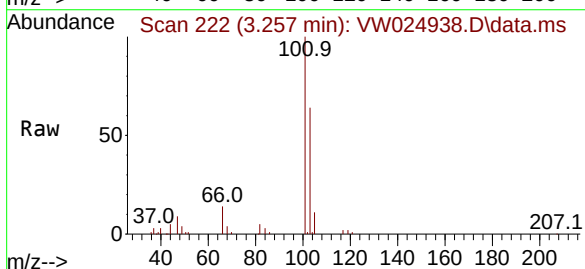
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ClientSampleId :
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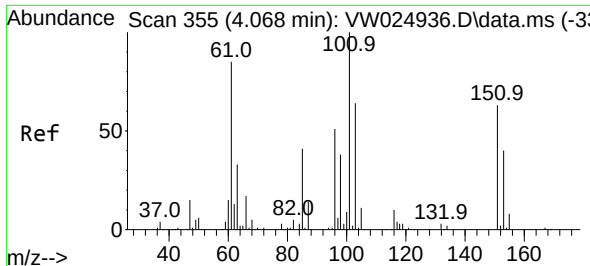
Tgt Ion: 64 Resp: 23448
Ion Ratio Lower Upper
64 100
66 31.0 22.3 41.5



#9
Trichlorofluoromethane
Concen: 11.780 ug/L
RT: 3.257 min Scan# 222
Delta R.T. -0.006 min
Lab File: VW024938.D
Acq: 19 Oct 2022 15:00

Tgt Ion: 101 Resp: 36823
Ion Ratio Lower Upper
101 100
103 63.8 52.9 79.3

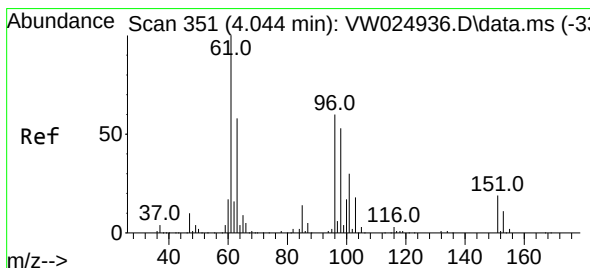
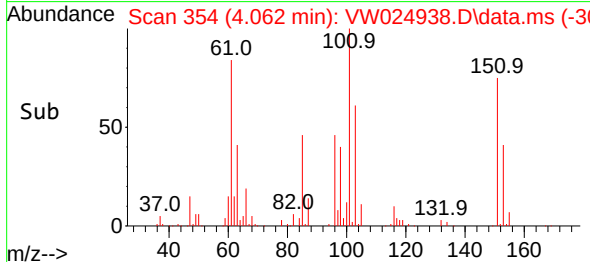
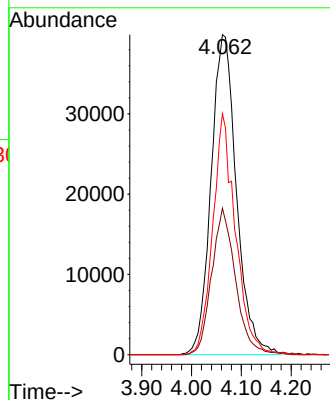
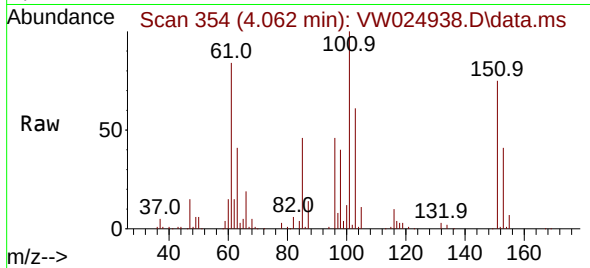




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 22.193 ug/L
 RT: 4.062 min Scan# 310
 Delta R.T. -0.006 min
 Lab File: VW024938.D
 Acq: 19 Oct 2022 15:00

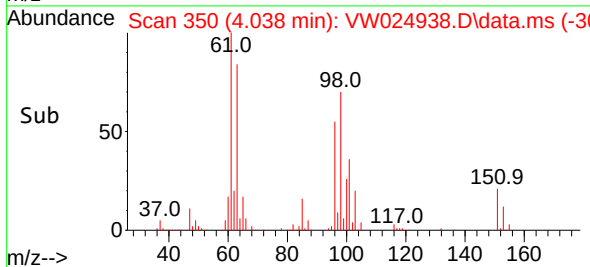
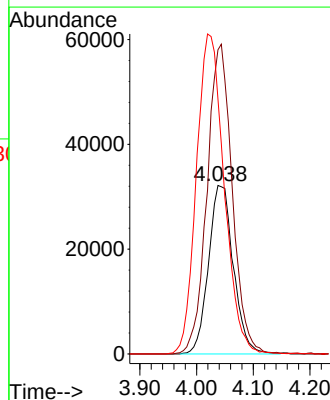
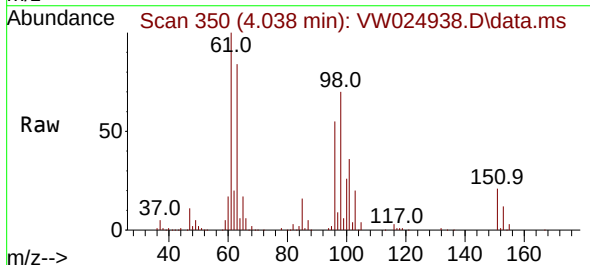
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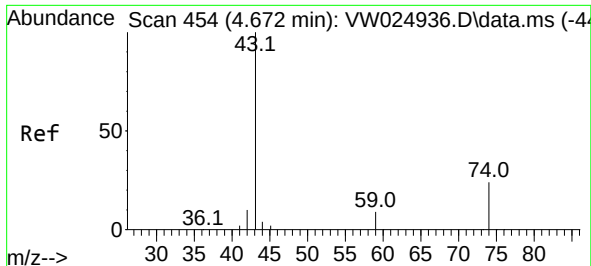
Tgt Ion:101 Resp: 141243
 Ion Ratio Lower Upper
 101 100
 85 42.8 33.6 50.4
 151 67.5 52.0 78.0



#12
 1,1-Dichloroethene
 Concen: 16.241 ug/L
 RT: 4.038 min Scan# 350
 Delta R.T. -0.006 min
 Lab File: VW024938.D
 Acq: 19 Oct 2022 15:00

Tgt Ion: 96 Resp: 97806
 Ion Ratio Lower Upper
 96 100
 61 180.6 122.4 227.2
 63 151.3 92.1 171.1

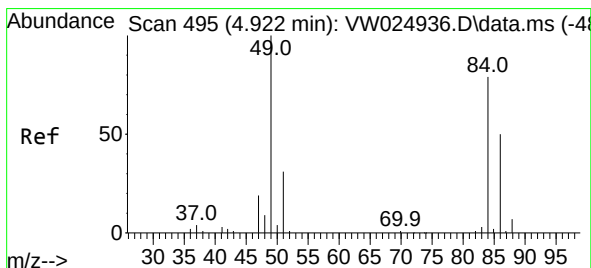
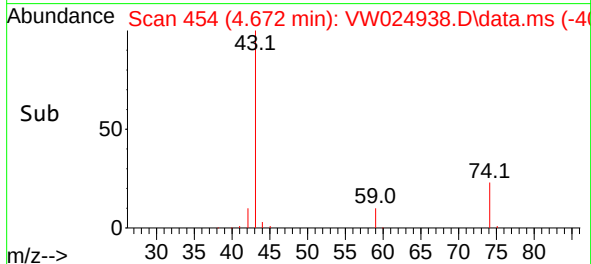
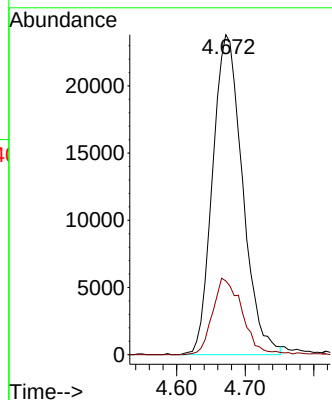
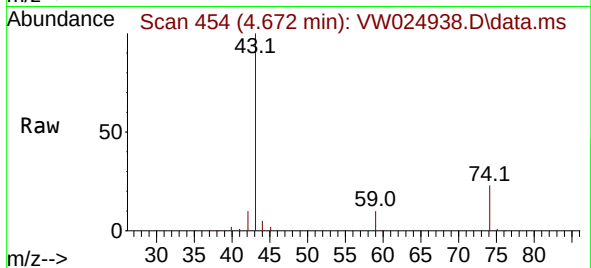




#15
Methyl Acetate
Concen: 25.534 ug/L
RT: 4.672 min Scan# 41
Delta R.T. 0.000 min
Lab File: VW024938.D
Acq: 19 Oct 2022 15:00

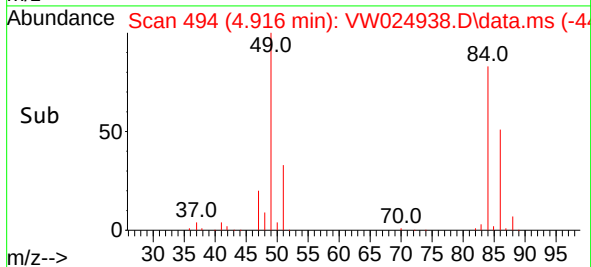
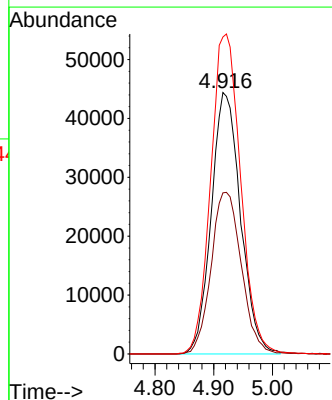
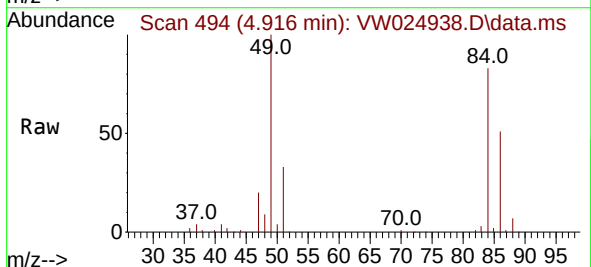
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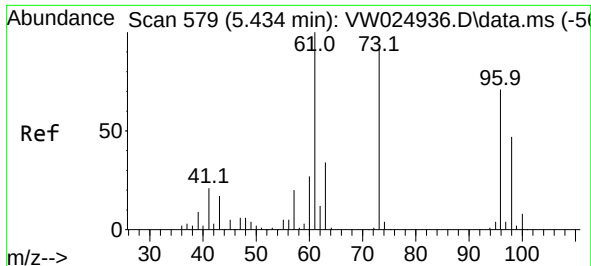
Tgt Ion: 43 Resp: 72254
Ion Ratio Lower Upper
43 100
74 23.3 19.0 28.6



#16
Methylene chloride
Concen: 19.576 ug/L
RT: 4.916 min Scan# 494
Delta R.T. -0.006 min
Lab File: VW024938.D
Acq: 19 Oct 2022 15:00

Tgt Ion: 84 Resp: 153640
Ion Ratio Lower Upper
84 100
86 61.7 45.5 84.5
49 121.2 90.9 168.9

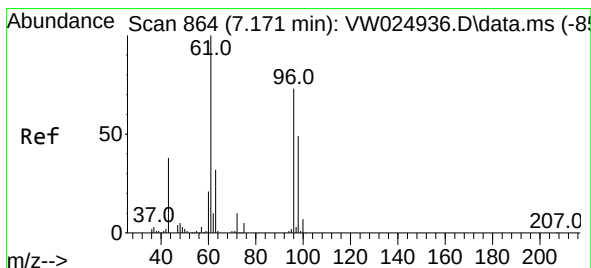
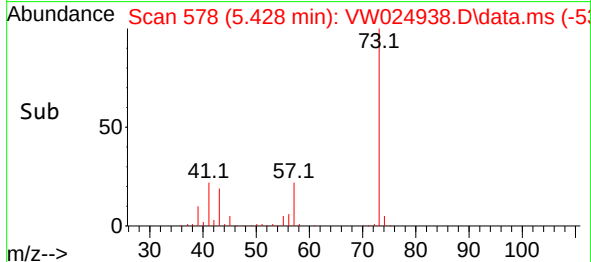
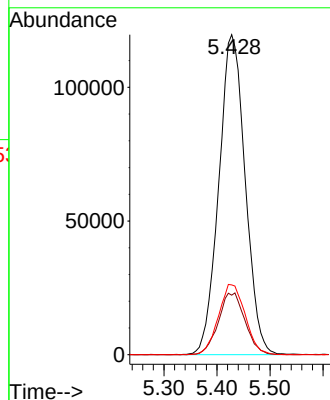
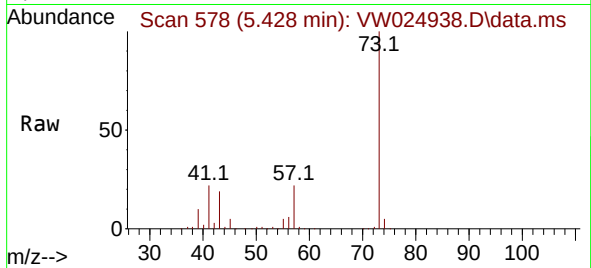




#18
Methyl tert-butyl Ether
Concen: 42.480 ug/L
RT: 5.428 min Scan# 518
Delta R.T. -0.006 min
Lab File: VW024938.D
Acq: 19 Oct 2022 15:00

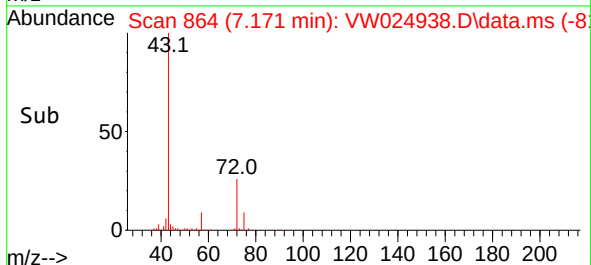
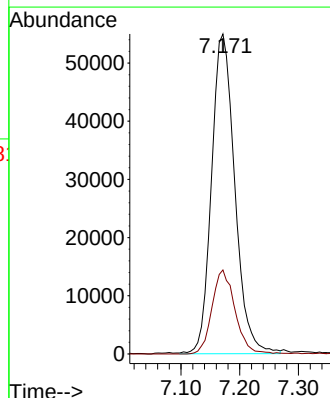
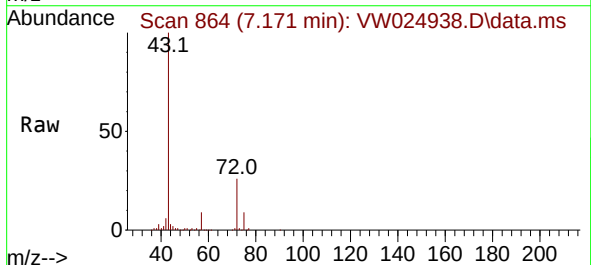
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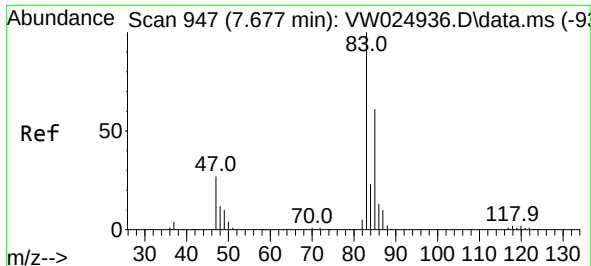
Tgt Ion: 73 Resp: 413809
Ion Ratio Lower Upper
73 100
43 19.6 15.8 23.6
57 22.2 18.2 27.4



#22
2-Butanone
Concen: 77.966 ug/L
RT: 7.171 min Scan# 864
Delta R.T. 0.000 min
Lab File: VW024938.D
Acq: 19 Oct 2022 15:00

Tgt Ion: 43 Resp: 151233
Ion Ratio Lower Upper
43 100
72 25.8 14.1 42.3

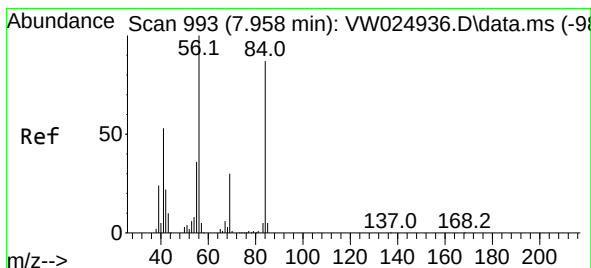
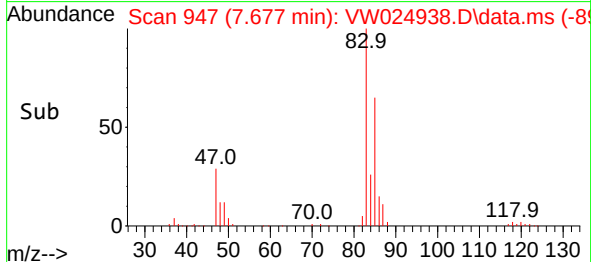
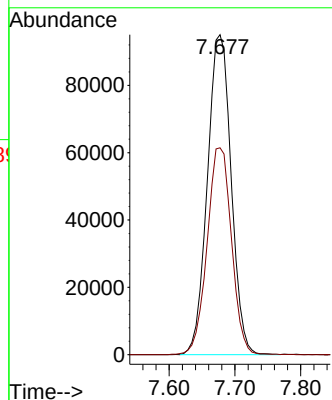
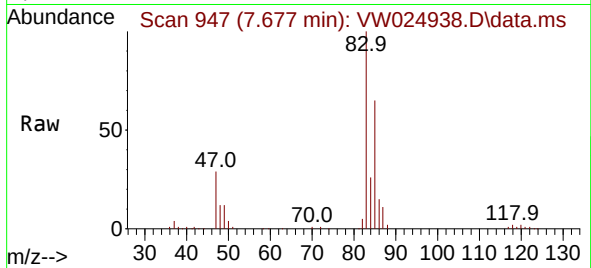




#25
Chloroform
Concen: 20.114 ug/L
RT: 7.677 min Scan# 947
Delta R.T. 0.000 min
Lab File: VW024938.D
Acq: 19 Oct 2022 15:00

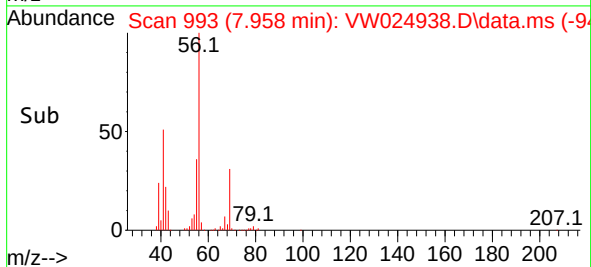
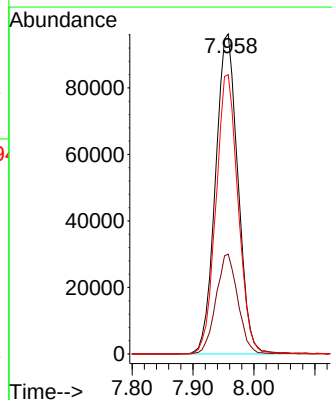
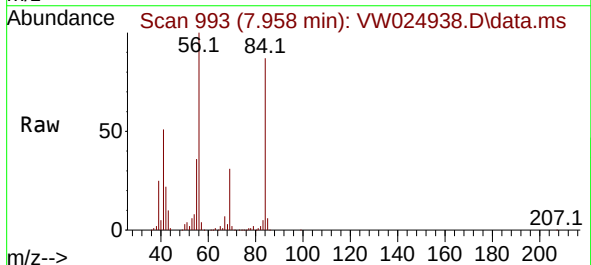
Instrument :
MSVOA_W
ClientSampleId :
DBWK8

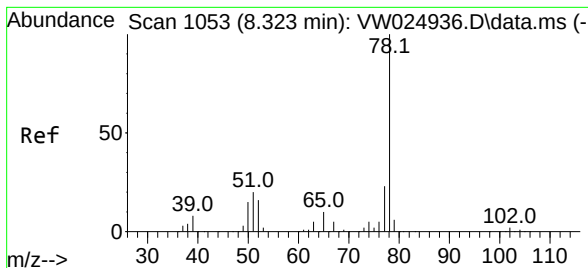
Tgt Ion: 83 Resp: 239439
Ion Ratio Lower Upper
83 100
85 64.6 45.3 84.1



#29
Cyclohexane
Concen: 20.822 ug/L
RT: 7.958 min Scan# 993
Delta R.T. 0.000 min
Lab File: VW024938.D
Acq: 19 Oct 2022 15:00

Tgt Ion: 56 Resp: 245893
Ion Ratio Lower Upper
56 100
69 30.4 24.2 36.2
84 86.1 67.7 101.5





#33

Benzene

Concen: 41.437 ug/L

RT: 8.323 min Scan# 1053

Delta R.T. 0.000 min

Lab File: VW024938.D

Acq: 19 Oct 2022 15:00

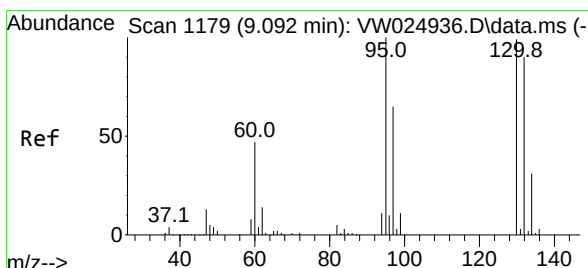
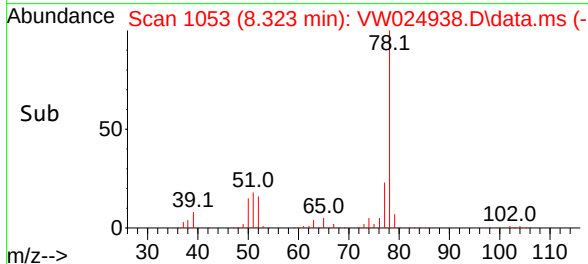
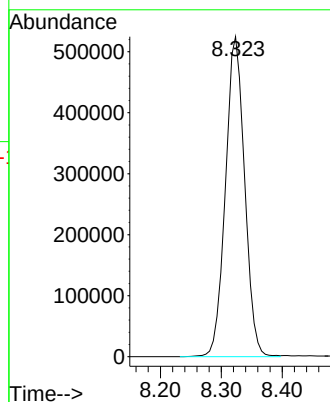
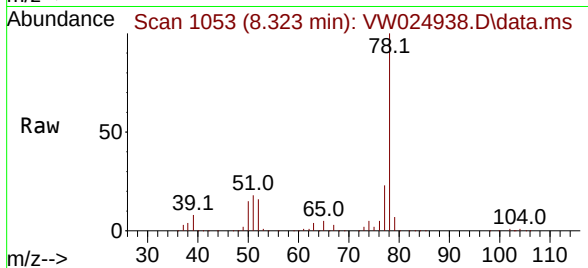
Instrument :

MSVOA_W

ClientSampleId :

DBWK8

Tgt Ion: 78 Resp: 1146319



#34

Trichloroethene

Concen: 53.493 ug/L

RT: 9.092 min Scan# 1179

Delta R.T. 0.000 min

Lab File: VW024938.D

Acq: 19 Oct 2022 15:00

Tgt Ion: 95 Resp: 372679

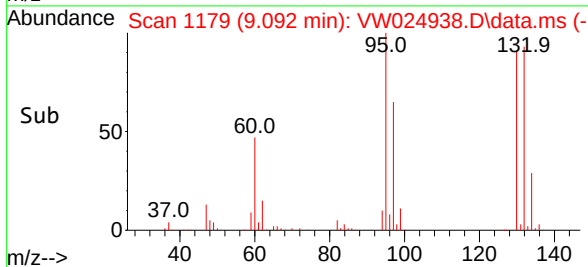
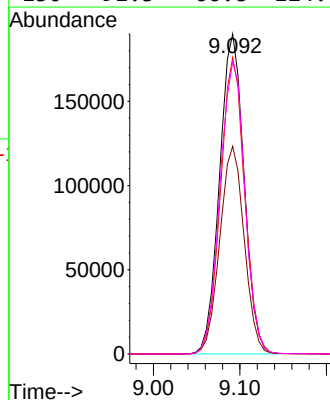
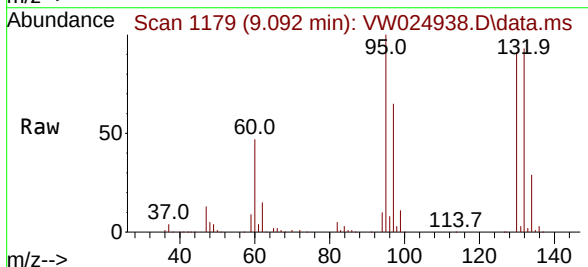
Ion Ratio Lower Upper

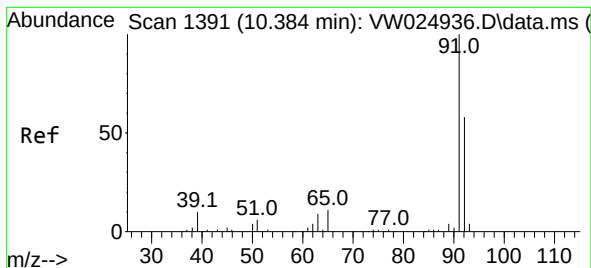
95 100

97 64.9 44.2 82.0

132 92.6 62.9 116.7

130 91.3 66.8 124.0





#42

Toluene

Concen: 51.244 ug/L

RT: 10.384 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW024938.D

Acq: 19 Oct 2022 15:00

Instrument :

MSVOA_W

ClientSampleId :

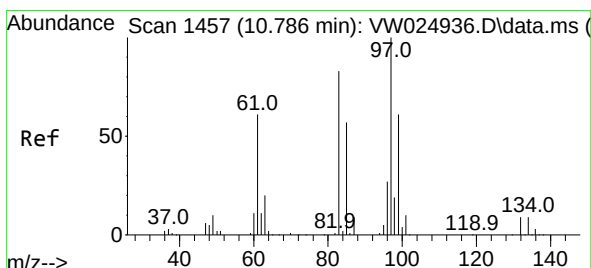
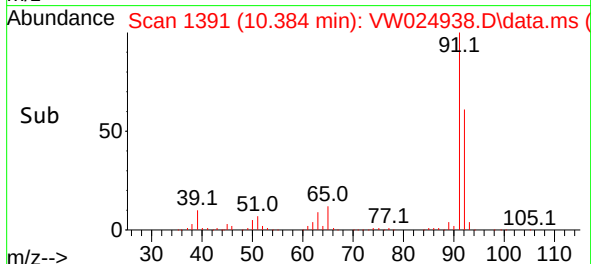
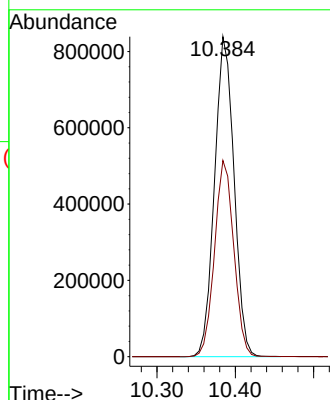
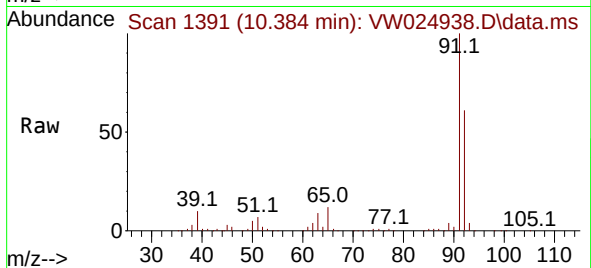
DBWK8

Tgt Ion: 91 Resp: 1453463

Ion Ratio Lower Upper

91 100

92 61.3 41.5 77.1



#45

1,1,2-Trichloroethane

Concen: 20.243 ug/L

RT: 10.786 min Scan# 1457

Delta R.T. 0.000 min

Lab File: VW024938.D

Acq: 19 Oct 2022 15:00

Tgt Ion: 97 Resp: 97484

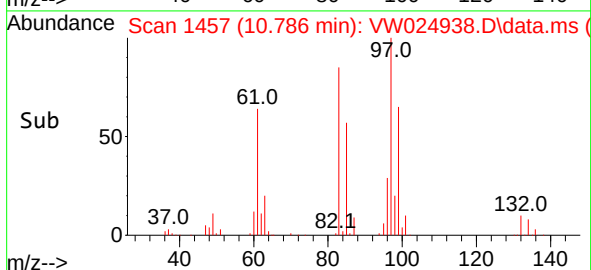
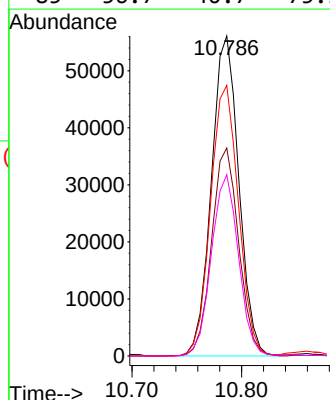
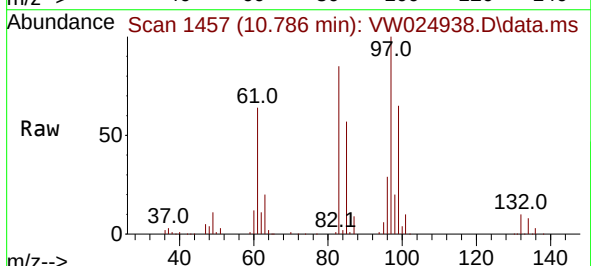
Ion Ratio Lower Upper

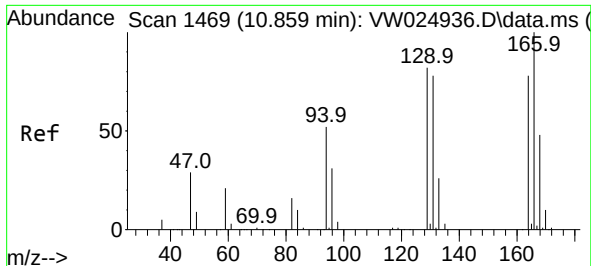
97 100

99 65.0 44.7 83.1

83 84.6 59.6 110.8

85 56.7 40.7 75.5



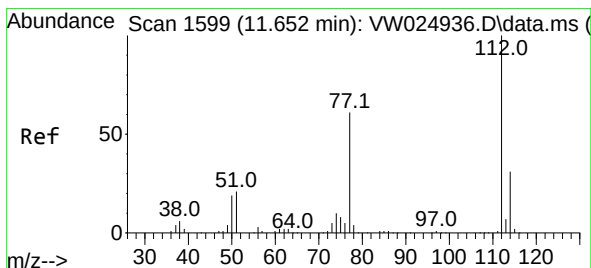
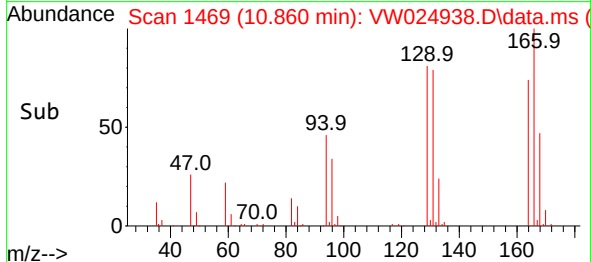
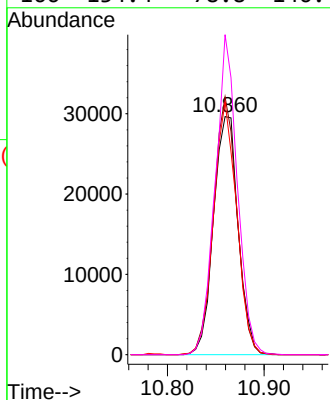
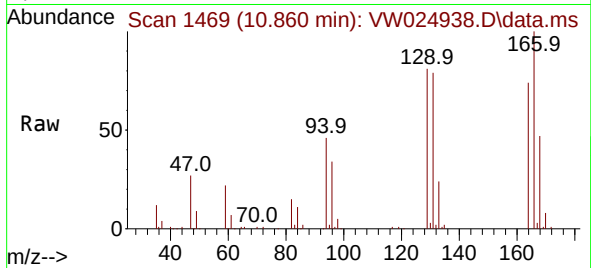


#46
Tetrachloroethene
Concen: 11.079 ug/L
RT: 10.860 min Scan# 1469
Delta R.T. 0.000 min
Lab File: VW024938.D
Acq: 19 Oct 2022 15:00

Instrument :
MSVOA_W
ClientSampleId :
DBWK8

Tgt Ion:164 Resp: 52483

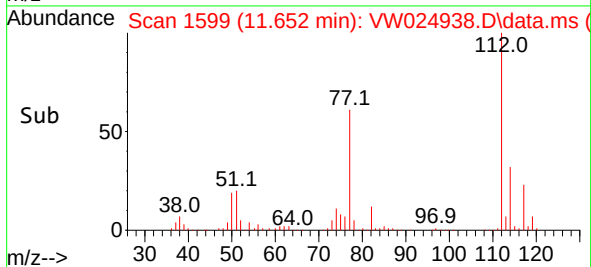
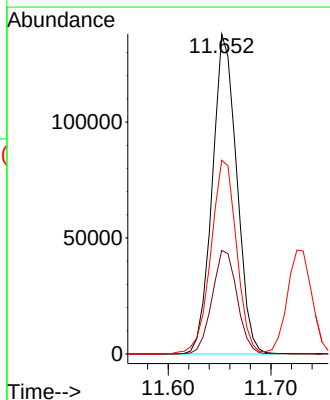
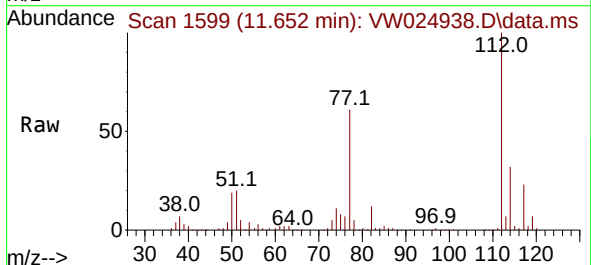
Ion	Ratio	Lower	Upper
164	100		
129	108.3	78.7	146.1
131	106.1	71.1	132.1
166	134.4	78.8	146.4

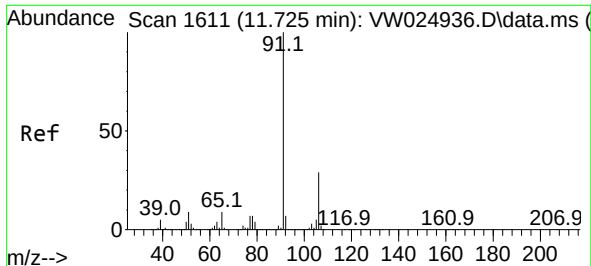


#51
Chlorobenzene
Concen: 12.780 ug/L
RT: 11.652 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VW024938.D
Acq: 19 Oct 2022 15:00

Tgt Ion:112 Resp: 227828

Ion	Ratio	Lower	Upper
112	100		
114	32.4	22.7	42.3
77	60.5	49.8	74.8

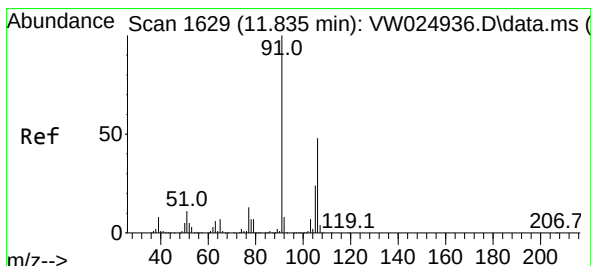
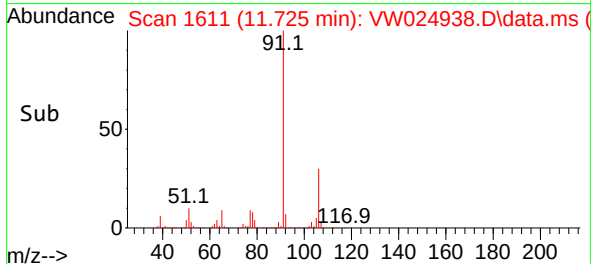
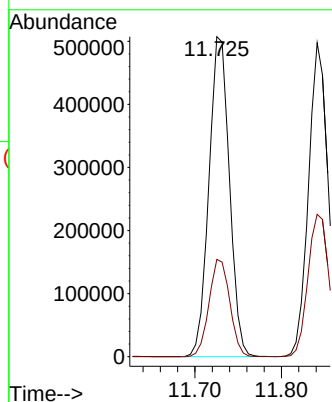
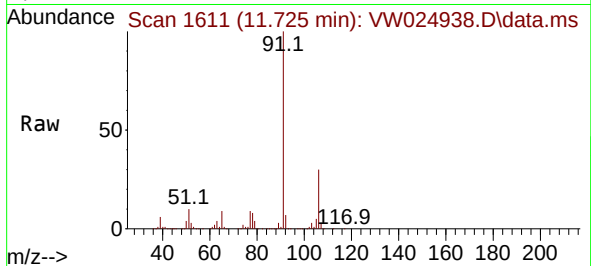




#52
Ethylbenzene
Concen: 26.248 ug/L
RT: 11.725 min Scan# 1630
Delta R.T. 0.000 min
Lab File: VW024938.D
Acq: 19 Oct 2022 15:00

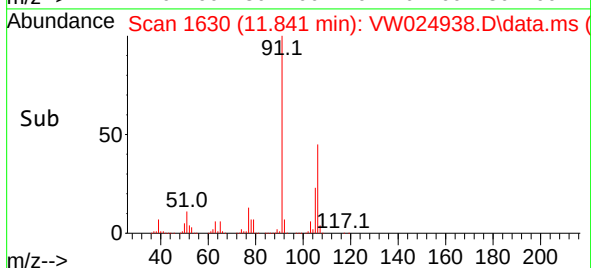
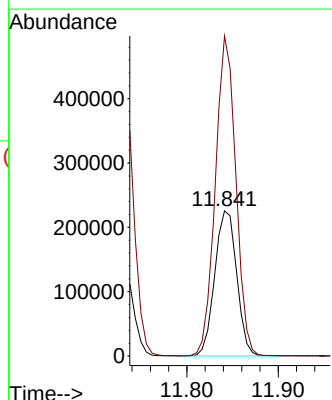
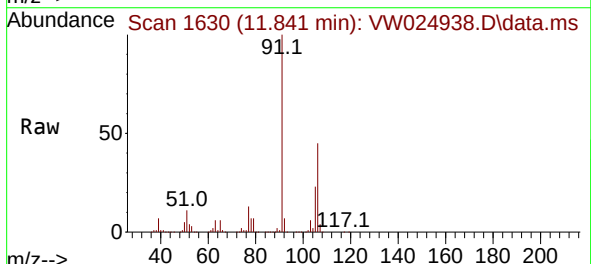
Instrument :
MSVOA_W
ClientSampleId :
DBWK8

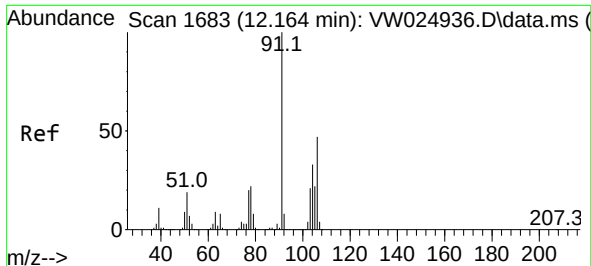
Tgt Ion: 91 Resp: 833683
Ion Ratio Lower Upper
91 100
106 30.4 20.1 37.3



#53
m,p-Xylene
Concen: 31.184 ug/L
RT: 11.841 min Scan# 1630
Delta R.T. 0.006 min
Lab File: VW024938.D
Acq: 19 Oct 2022 15:00

Tgt Ion:106 Resp: 376305
Ion Ratio Lower Upper
106 100
91 220.5 147.4 273.8

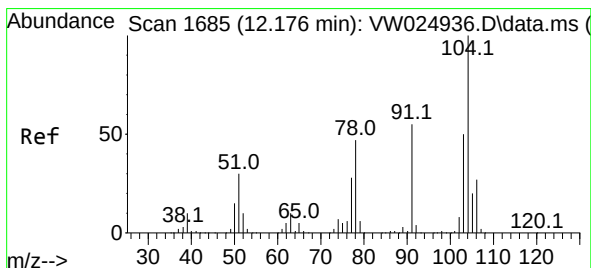
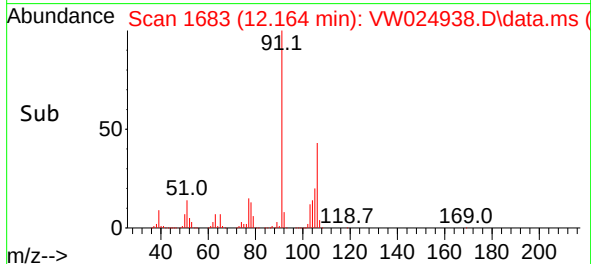
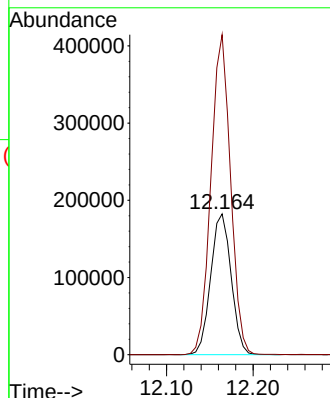
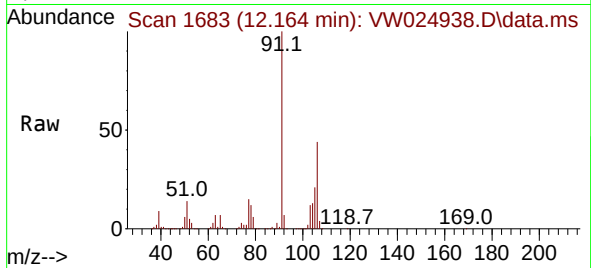




#54
o-Xylene
Concen: 26.037 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VW024938.D
Acq: 19 Oct 2022 15:00

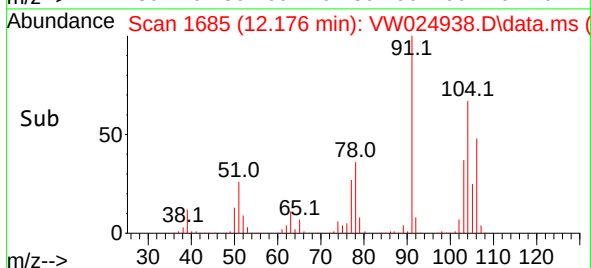
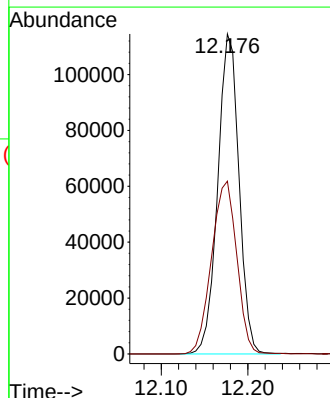
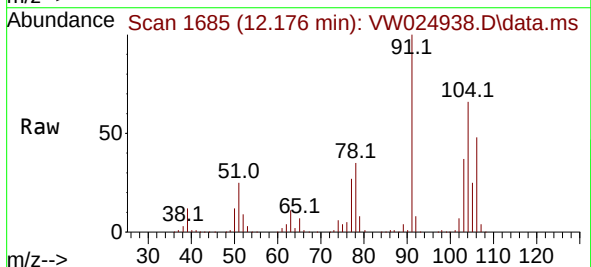
Instrument :
MSVOA_W
ClientSampleId :
DBWK8

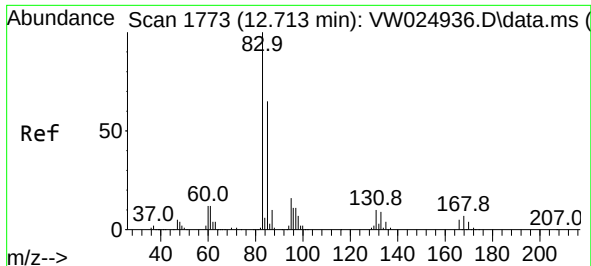
Tgt Ion:106 Resp: 299157
Ion Ratio Lower Upper
106 100
91 227.3 151.0 280.4



#55
Styrene
Concen: 9.899 ug/L
RT: 12.176 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VW024938.D
Acq: 19 Oct 2022 15:00

Tgt Ion:104 Resp: 195081
Ion Ratio Lower Upper
104 100
78 54.0 32.6 60.5





#57

1,1,2,2-Tetrachloroethane

Concen: 12.239 ug/L

RT: 12.713 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW024938.D

Acq: 19 Oct 2022 15:00

Instrument :

MSVOA_W

ClientSampleId :

DBWK8

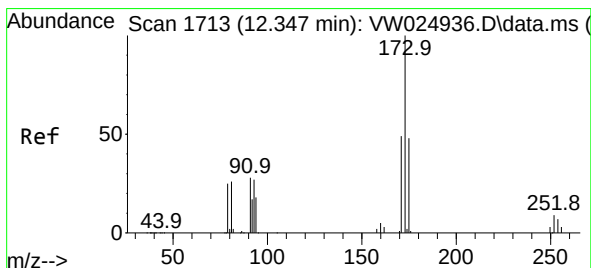
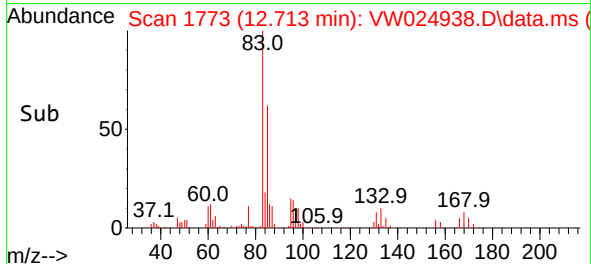
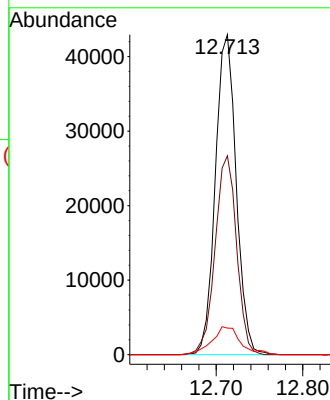
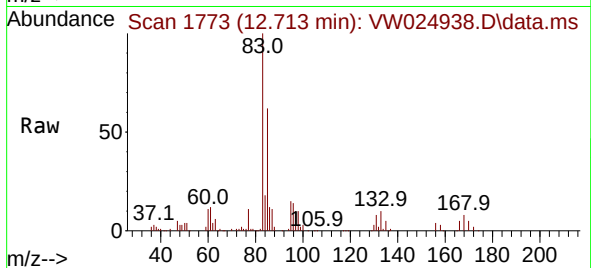
Tgt Ion: 83 Resp: 71908

Ion Ratio Lower Upper

83 100

85 62.1 44.5 82.7

131 8.3 6.8 10.2



#59

Bromoform

Concen: 11.849 ug/L

RT: 12.347 min Scan# 1713

Delta R.T. 0.000 min

Lab File: VW024938.D

Acq: 19 Oct 2022 15:00

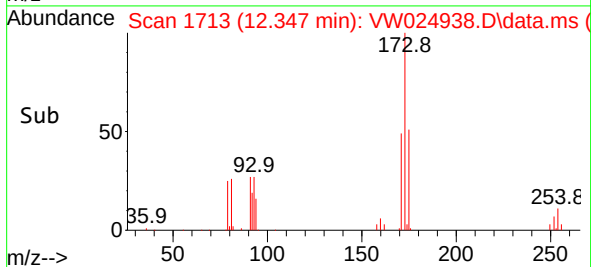
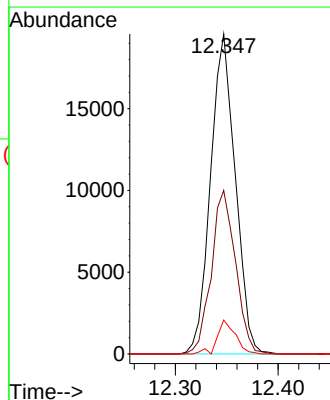
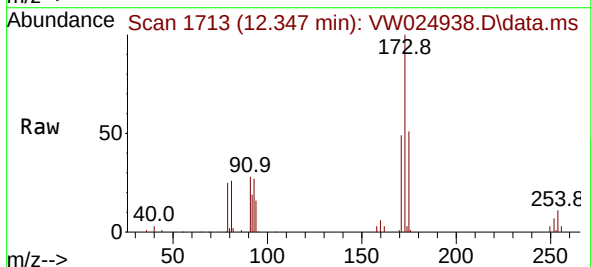
Tgt Ion:173 Resp: 32687

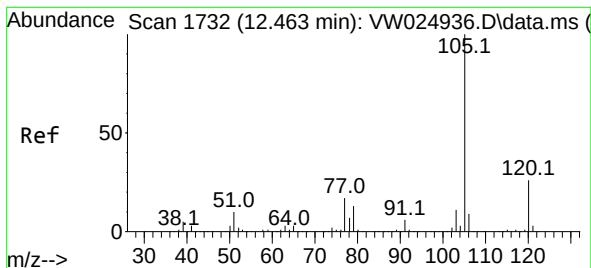
Ion Ratio Lower Upper

173 100

175 50.0 38.6 58.0

254 7.2 4.8 7.2#





#60

Isopropylbenzene

Concen: 19.653 ug/L

RT: 12.463 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW024938.D

Acq: 19 Oct 2022 15:00

Instrument :

MSVOA_W

ClientSampleId :

DBWK8

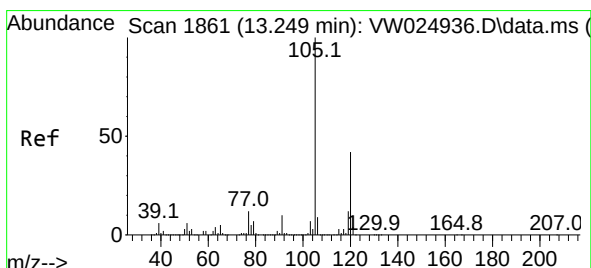
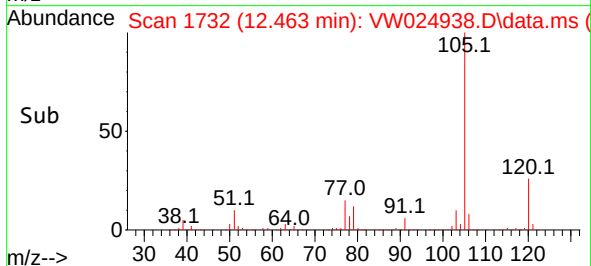
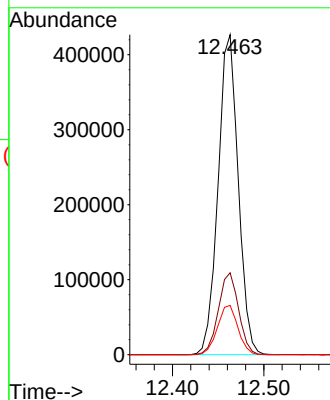
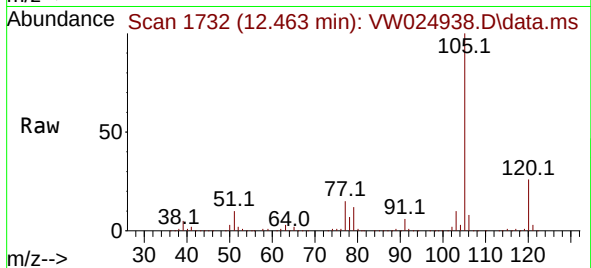
Tgt Ion:105 Resp: 653554

Ion Ratio Lower Upper

105 100

120 25.7 20.5 30.7

77 15.7 12.6 19.0



#63

1,2,4-Trimethylbenzene

Concen: 24.000 ug/L

RT: 13.249 min Scan# 1861

Delta R.T. 0.000 min

Lab File: VW024938.D

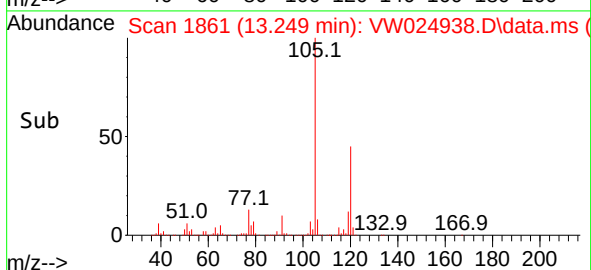
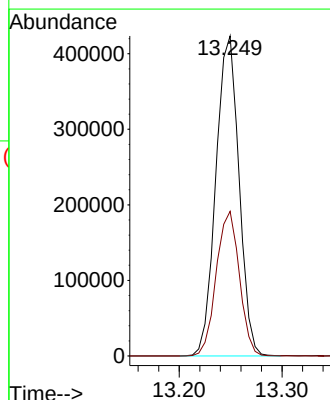
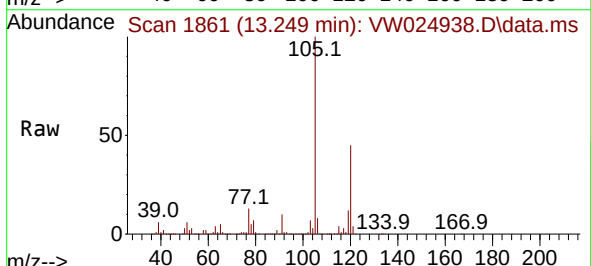
Acq: 19 Oct 2022 15:00

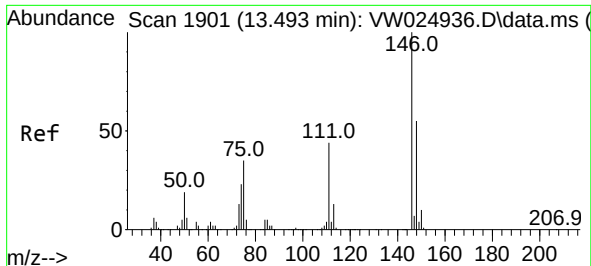
Tgt Ion:105 Resp: 660675

Ion Ratio Lower Upper

105 100

120 45.2 34.8 52.2

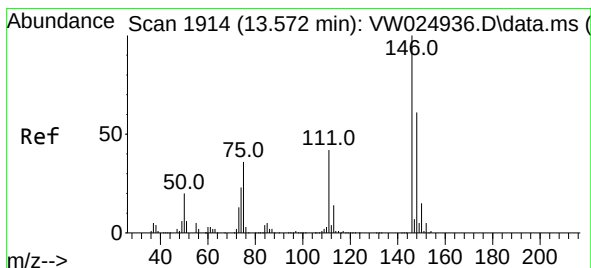
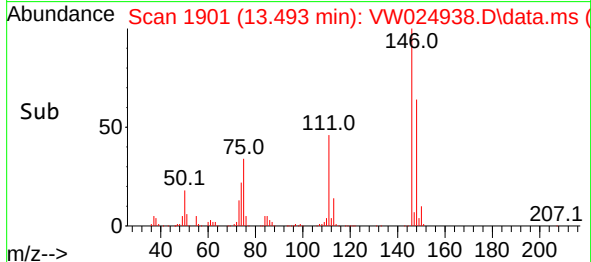
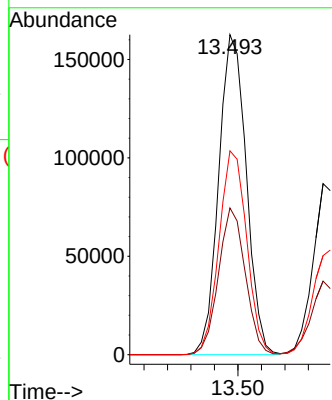
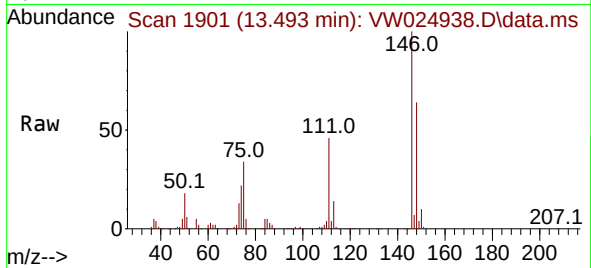




#64
1,3-Dichlorobenzene
Concen: 19.603 ug/L
RT: 13.493 min Scan# 1901
Delta R.T. 0.000 min
Lab File: VW024938.D
Acq: 19 Oct 2022 15:00

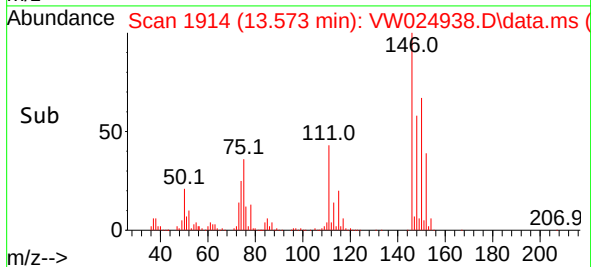
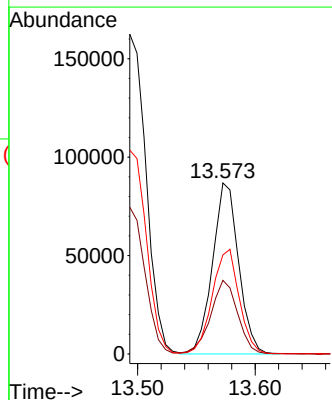
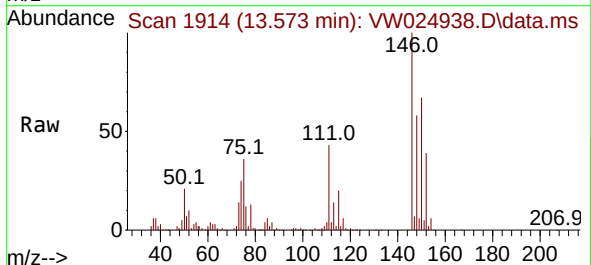
Instrument :
MSVOA_W
ClientSampleId :
DBWK8

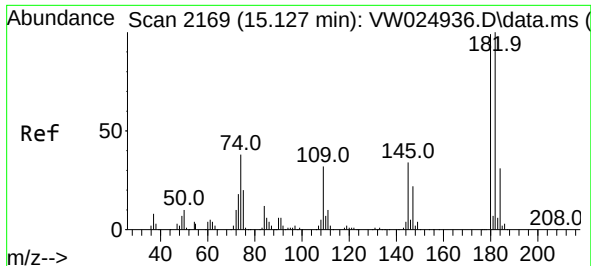
Tgt Ion:146 Resp: 265487
Ion Ratio Lower Upper
146 100
111 45.9 31.7 58.9
148 63.7 45.5 84.5



#65
1,4-Dichlorobenzene
Concen: 9.796 ug/L
RT: 13.573 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW024938.D
Acq: 19 Oct 2022 15:00

Tgt Ion:146 Resp: 134295
Ion Ratio Lower Upper
146 100
111 43.0 27.4 50.8
148 57.9 42.8 79.6

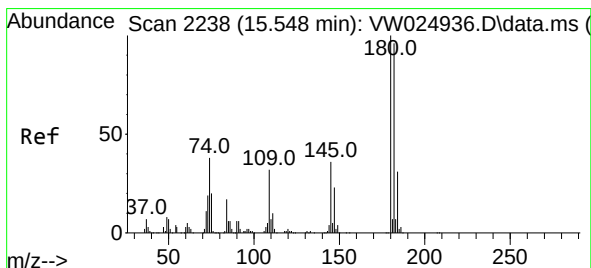
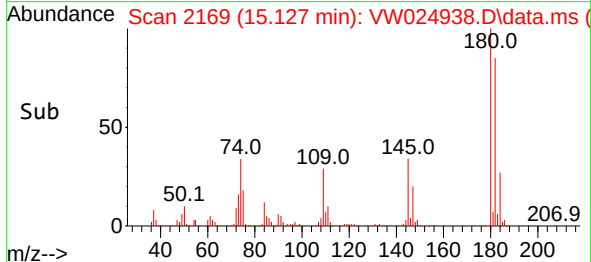
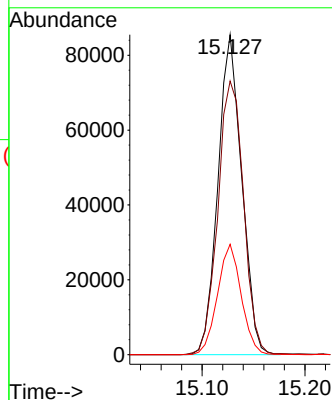
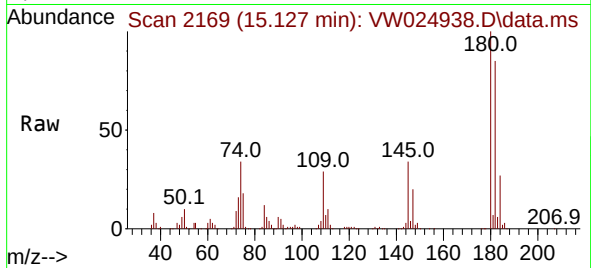




#70
1,2,4-trichlorobenzene
Concen: 19.190 ug/L
RT: 15.127 min Scan# 2169
Delta R.T. 0.000 min
Lab File: VW024938.D
Acq: 19 Oct 2022 15:00

Instrument :
MSVOA_W
ClientSampleId :
DBWK8

Tgt Ion:180 Resp: 137674
Ion Ratio Lower Upper
180 100
182 92.2 77.7 116.5
145 34.3 29.0 43.4



#72
1,2,3-Trichlorobenzene
Concen: 29.807 ug/L
RT: 15.548 min Scan# 2238
Delta R.T. 0.000 min
Lab File: VW024938.D
Acq: 19 Oct 2022 15:00

Tgt Ion:180 Resp: 182528
Ion Ratio Lower Upper
180 100
182 91.3 75.1 112.7
145 35.2 29.9 44.9

