

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW082323\
 Data File : VW026810.D
 Acq On : 23 Aug 2023 12:17
 Operator : SY/MD
 Sample : 04108-12
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 DCHM8

Quant Time: Aug 24 01:42:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM081023SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Aug 23 01:29:10 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.837	114	550548	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	523525	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	281617	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.357	65	159450	17.618	ug/L	-0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	70.480%
7) Chloroethane-d5	2.893	69	120406	17.891	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	71.560%
11) 1,1-Dichloroethene-d2	4.021	65	88519	19.886	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	79.560%
21) 2-Butanone-d5	7.075	46	100161	38.505	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	77.000%
24) Chloroform-d	7.648	84	441233	23.879	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.520%
26) 1,2-Dichloroethane-d4	8.301	65	224279	21.994	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	87.960%
32) Benzene-d6	8.270	84	795468	22.047	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	88.200%
36) 1,2-Dichloropropane-d6	9.270	67	247014	21.978	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	87.920%
41) Toluene-d8	10.319	98	723387	23.356	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	93.440%
43) trans-1,3-Dichloroprop...	10.575	79	103806	22.370	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	89.480%
47) 2-Hexanone-d5	10.922	63	53395	45.214	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	90.420%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	216608	24.405	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	97.600%
66) 1,2-Dichlorobenzene-d4	13.848	152	222445	22.068	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	88.280%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.045	96	262661	32.278	ug/L	84
13) Acetone	4.125	43	441850	170.835	ug/L	96
16) Methylene chloride	4.917	84	392271	36.834	ug/L	97
17) trans-1,2-Dichloroethene	5.423	96	678293	74.696	ug/L	97
18) Methyl tert-butyl Ether	5.423	73	645922	47.011	ug/L	97
19) 1,1-Dichloroethane	6.210	63	934312	49.992	ug/L	99
20) cis-1,2-Dichloroethene	7.167	96	696647	71.375	ug/L	96
22) 2-Butanone	7.167	43	307830	80.761	ug/L	93
25) Chloroform	7.673	83	1389052	76.932	ug/L	99
27) 1,2-Dichloroethane	8.398	62	255825	20.310	ug/L	98
31) Carbon tetrachloride	8.063	117	155974	12.485	ug/L	95
33) Benzene	8.325	78	2117119	55.532	ug/L	100
34) Trichloroethene	9.087	95	771882	79.494	ug/L	97
37) 1,2-Dichloropropane	9.368	63	416923	39.925	ug/L	99
38) Bromodichloromethane	9.642	83	666359	54.395	ug/L	98
39) cis-1,3-Dichloropropene	10.069	75	1027263	68.381	ug/L	98
40) 4-Methyl-2-pentanone	10.203	43	1244087	183.153	ug/L	96
42) Toluene	10.386	91	2611862	67.724	ug/L	100
44) trans-1,3-Dichloropropene	10.605	75	123309	9.536	ug/L	96

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

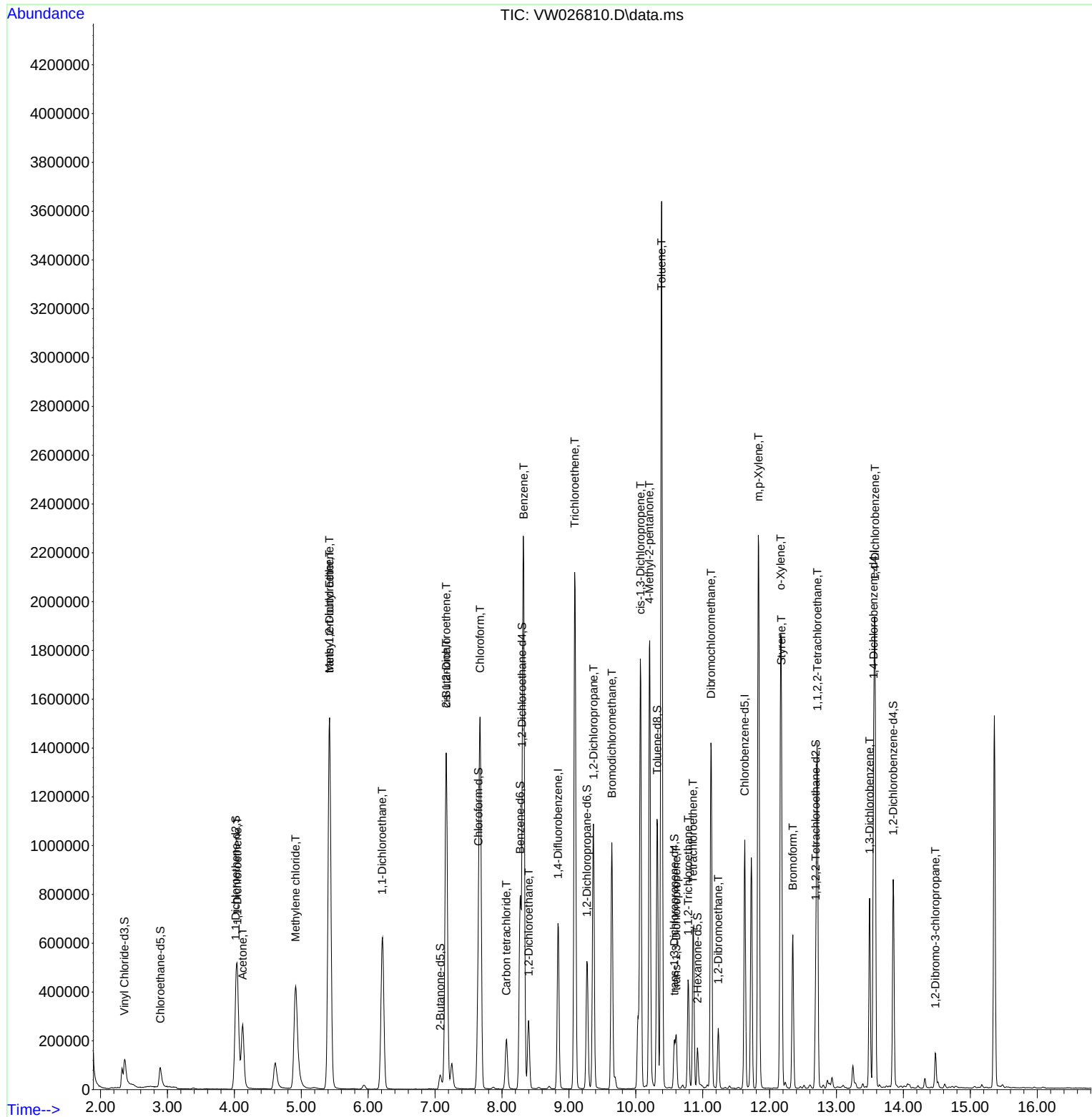
45) 1,1,2-Trichloroethane	10.782	97	138606	19.408	ug/L	97
46) Tetrachloroethene	10.855	164	150892	21.390	ug/L	98
49) Dibromochloromethane	11.123	129	753225	100.839	ug/L	91
50) 1,2-Dibromoethane	11.233	107	165573	24.708	ug/L	93
53) m,p-Xylene	11.837	106	705996	44.064	ug/L	85
54) o-Xylene	12.166	106	325711	21.782	ug/L	95
55) Styrene	12.178	104	549840	21.148	ug/L	99
57) 1,1,2,2-Tetrachloroethane	12.715	83	696479	77.003	ug/L	100
59) Bromoform	12.349	173	277840	62.980	ug/L	96
64) 1,3-Dichlorobenzene	13.495	146	283327	15.560	ug/L	94
65) 1,4-Dichlorobenzene	13.574	146	659679	34.714	ug/L	98
68) 1,2-Dibromo-3-chloropr...	14.476	75	38509	23.384	ug/L	96

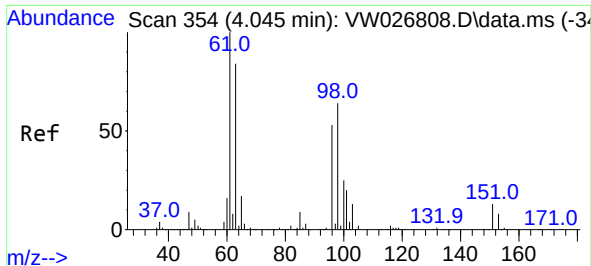
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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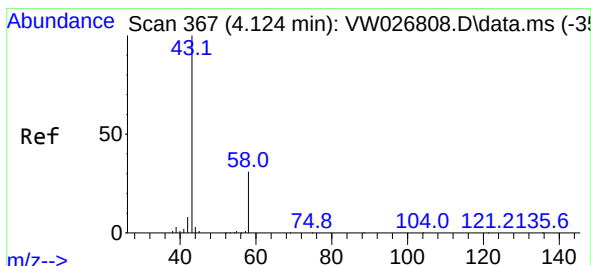
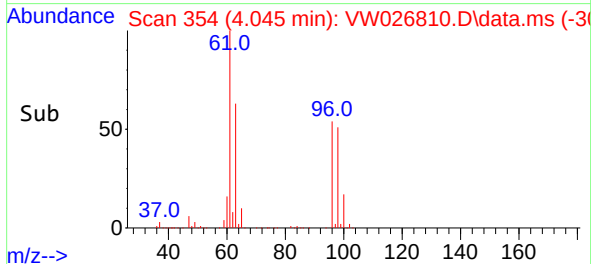
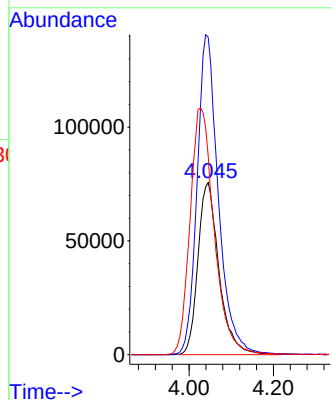
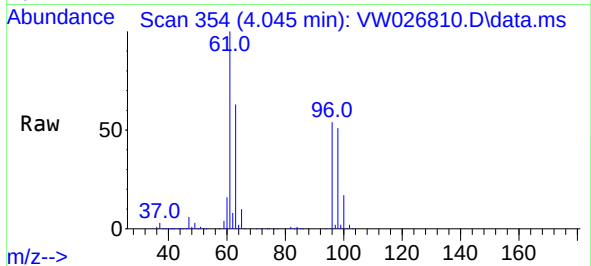




#12
1,1-Dichloroethene
Concen: 32.278 ug/L
RT: 4.045 min Scan# 354
Delta R.T. -0.006 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

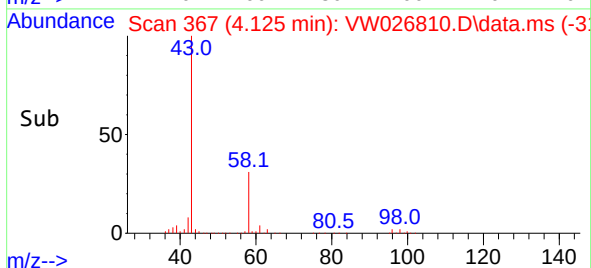
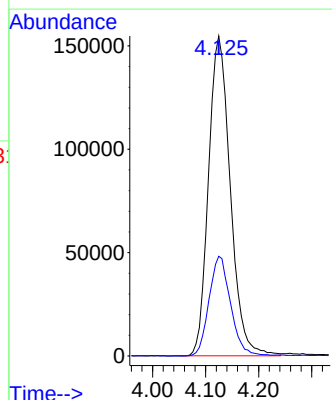
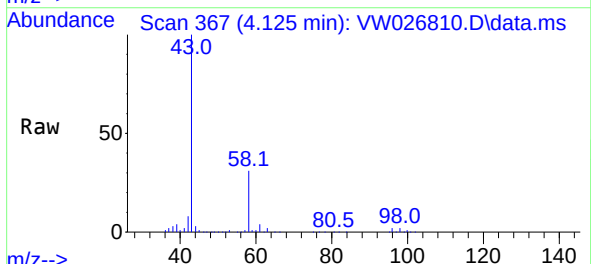
Instrument :
MSVOA_W
ClientSampleId :
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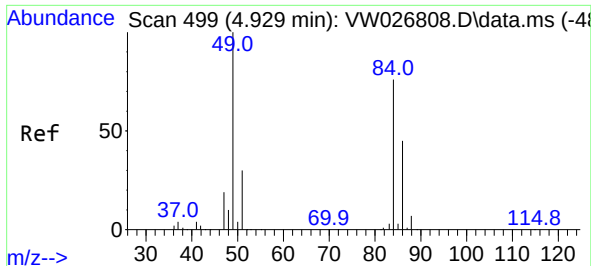
Tgt Ion: 96 Resp: 262661
Ion Ratio Lower Upper
96 100
61 184.4 133.2 247.4
63 115.6 109.0 202.4



#13
Acetone
Concen: 170.835 ug/L
RT: 4.125 min Scan# 367
Delta R.T. -0.000 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

Tgt Ion: 43 Resp: 441850
Ion Ratio Lower Upper
43 100
58 30.8 0.0 57.4

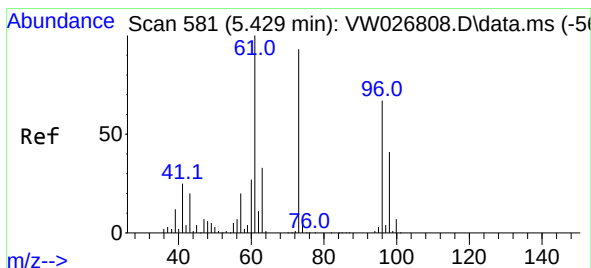
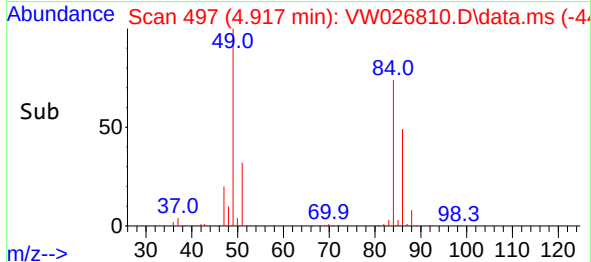
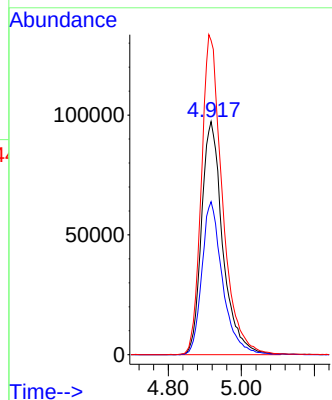
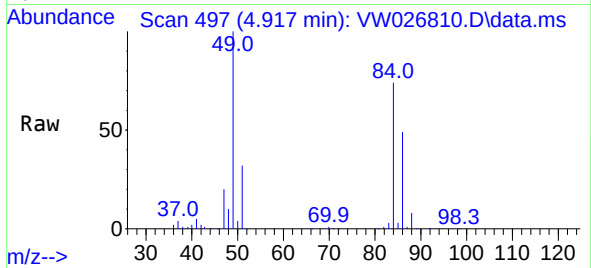




#16
Methylene chloride
Concen: 36.834 ug/L
RT: 4.917 min Scan# 49
Delta R.T. -0.000 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

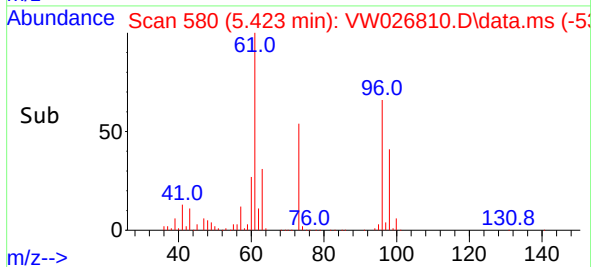
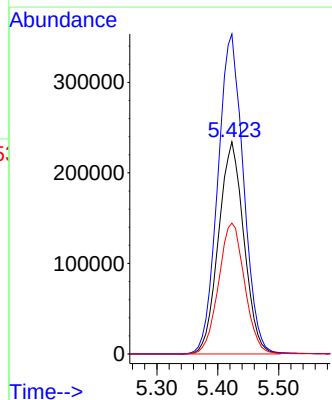
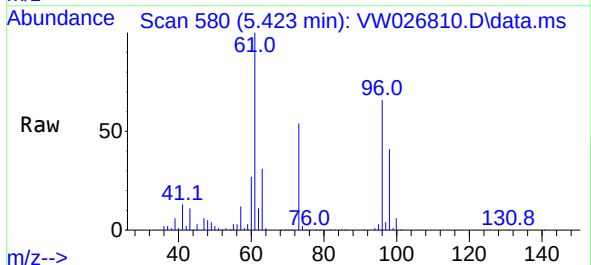
Instrument :
MSVOA_W
ClientSampleId :
DCHM8

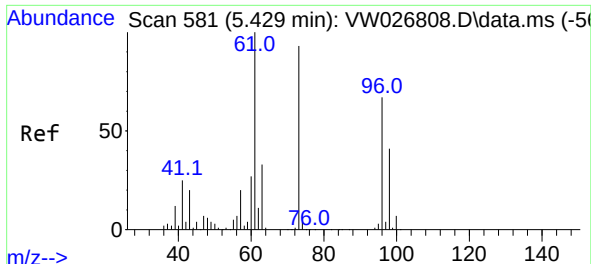
Tgt Ion: 84 Resp: 392271
Ion Ratio Lower Upper
84 100
86 65.6 43.5 80.9
49 134.7 96.0 178.2



#17
trans-1,2-Dichloroethene
Concen: 74.696 ug/L
RT: 5.423 min Scan# 580
Delta R.T. -0.006 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

Tgt Ion: 96 Resp: 678293
Ion Ratio Lower Upper
96 100
61 150.8 109.4 203.2
98 61.6 43.6 81.0

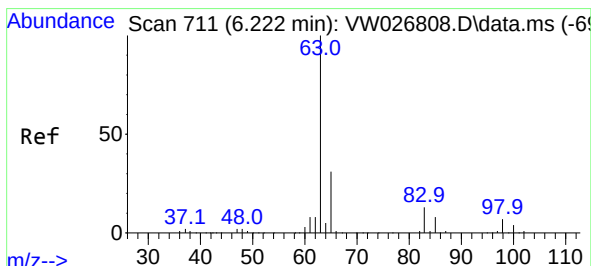
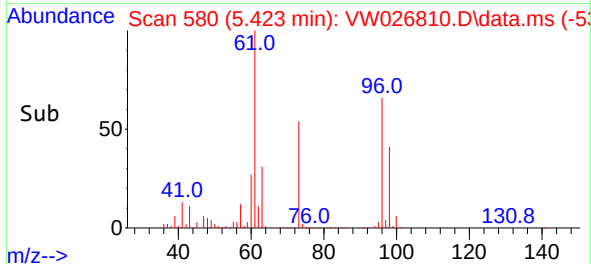
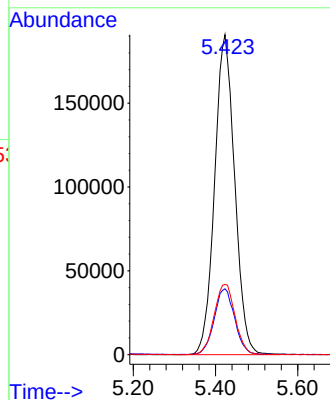
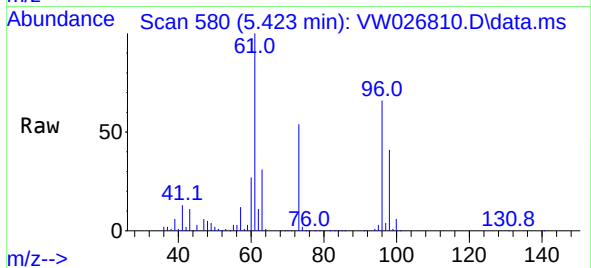




#18
Methyl tert-butyl Ether
Concen: 47.011 ug/L
RT: 5.423 min Scan# 51
Delta R.T. -0.006 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

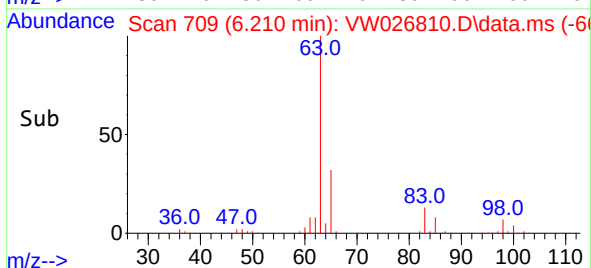
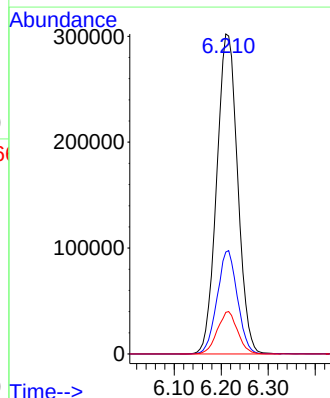
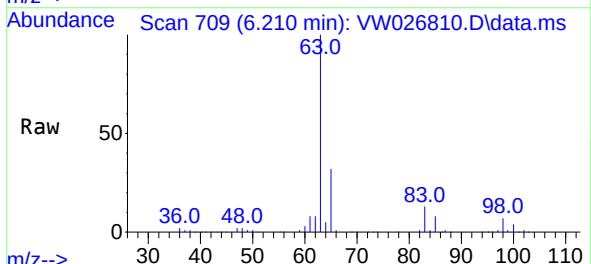
Instrument :
MSVOA_W
ClientSampleId :
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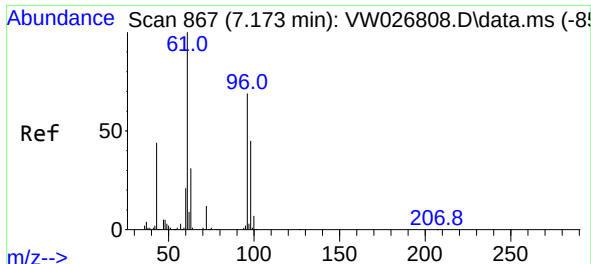
Tgt Ion: 73 Resp: 645922
Ion Ratio Lower Upper
73 100
43 20.9 18.0 27.0
57 23.1 19.3 28.9



#19
1,1-Dichloroethane
Concen: 49.992 ug/L
RT: 6.210 min Scan# 709
Delta R.T. -0.006 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

Tgt Ion: 63 Resp: 934312
Ion Ratio Lower Upper
63 100
65 31.9 21.8 40.6
83 13.0 9.0 16.6

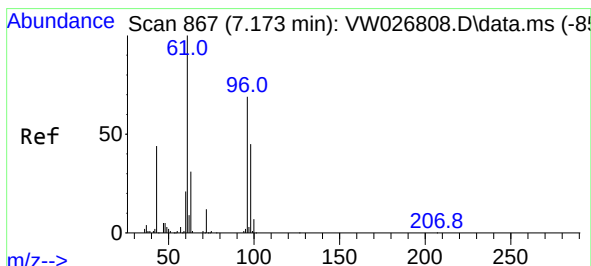
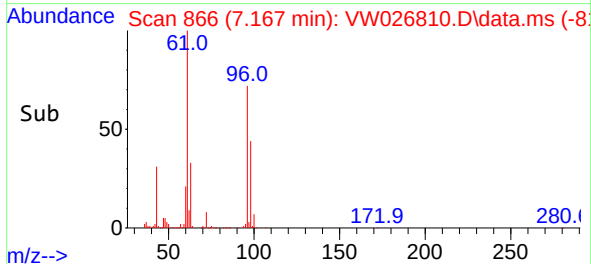
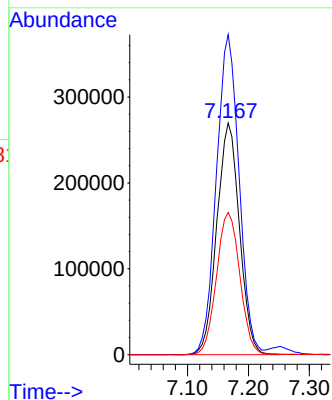
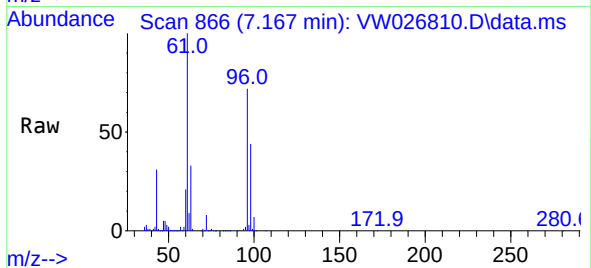




#20
cis-1,2-Dichloroethene
Concen: 71.375 ug/L
RT: 7.167 min Scan# 866
Delta R.T. -0.000 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

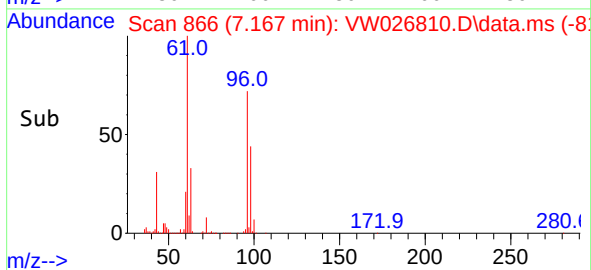
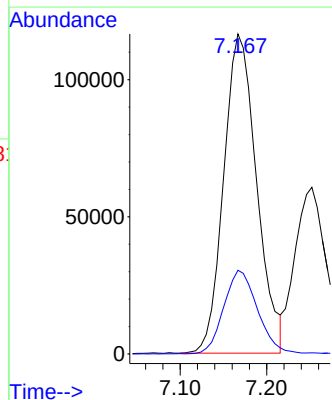
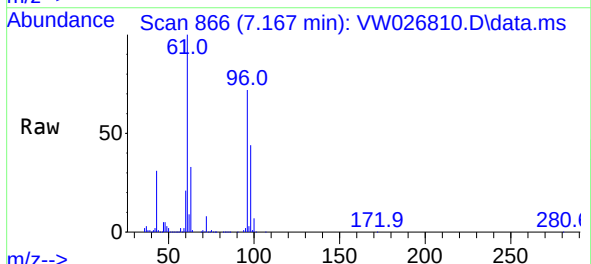
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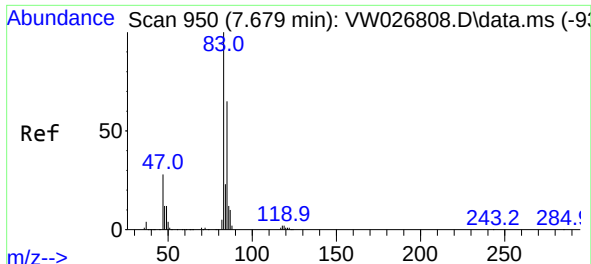
Tgt Ion: 96 Resp: 696647
Ion Ratio Lower Upper
96 100
61 138.1 101.2 188.0
98 61.4 43.8 81.3



#22
2-Butanone
Concen: 80.761 ug/L
RT: 7.167 min Scan# 866
Delta R.T. -0.006 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

Tgt Ion: 43 Resp: 307830
Ion Ratio Lower Upper
43 100
72 26.8 11.8 35.4





#25

Chloroform

Concen: 76.932 ug/L

RT: 7.673 min Scan# 949

Delta R.T. -0.006 min

Lab File: VW026810.D

Acq: 23 Aug 2023 12:17

Instrument :

MSVOA_W

ClientSampleId :

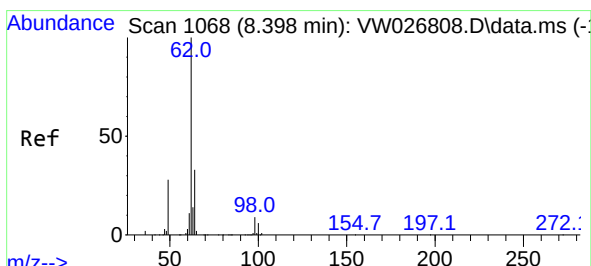
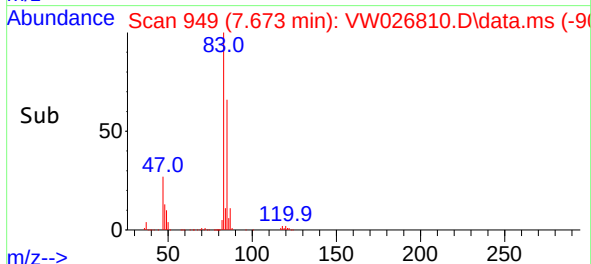
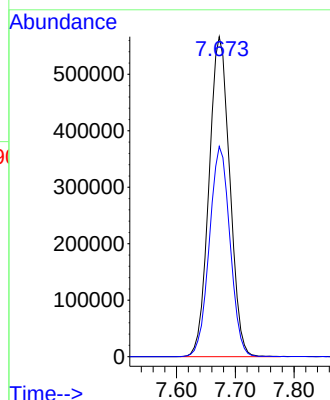
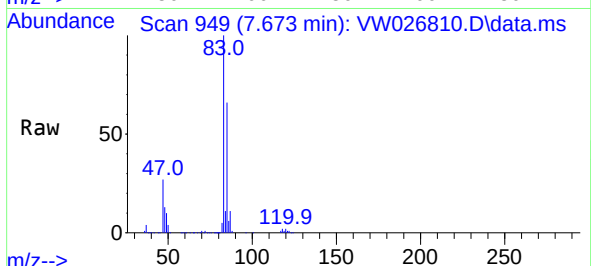
DCHM8

Tgt Ion: 83 Resp: 1389052

Ion Ratio Lower Upper

83 100

85 65.7 45.4 84.2



#27

1,2-Dichloroethane

Concen: 20.310 ug/L

RT: 8.398 min Scan# 1068

Delta R.T. -0.000 min

Lab File: VW026810.D

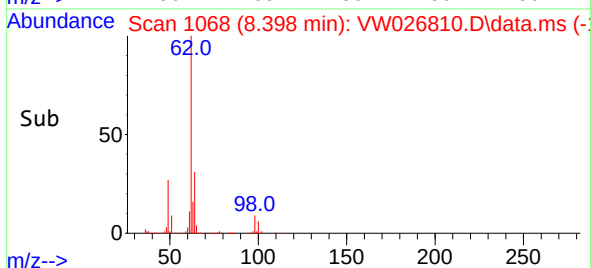
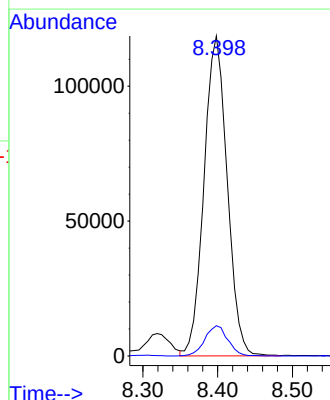
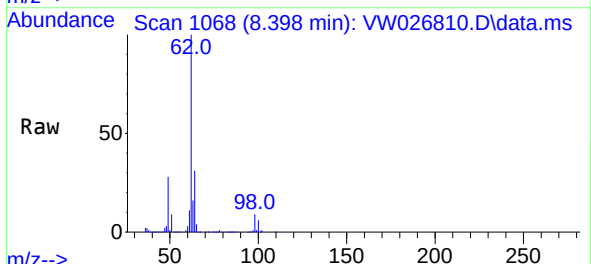
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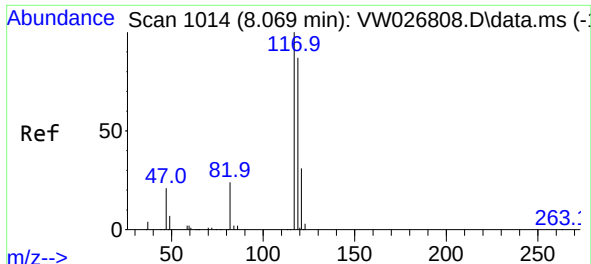
Tgt Ion: 62 Resp: 255825

Ion Ratio Lower Upper

62 100

98 9.5 7.1 10.7

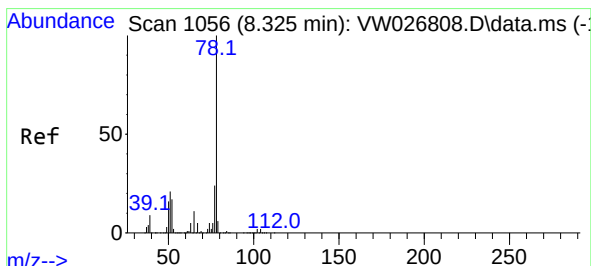
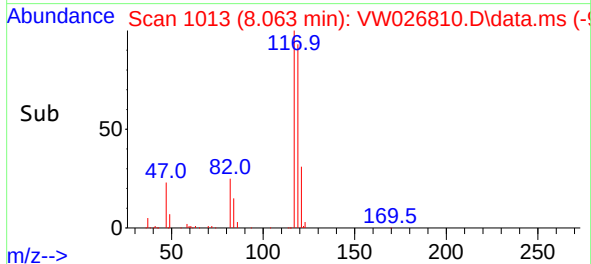
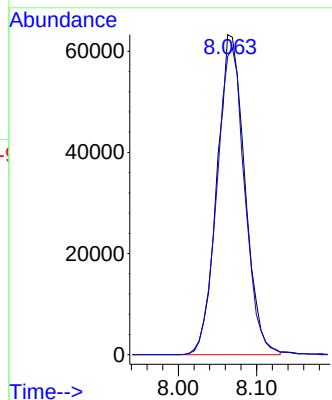
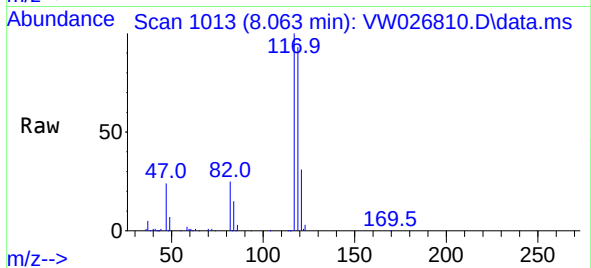




#31
Carbon tetrachloride
Concen: 12.485 ug/L
RT: 8.063 min Scan# 1014
Delta R.T. -0.006 min
Lab File: VW026810.D
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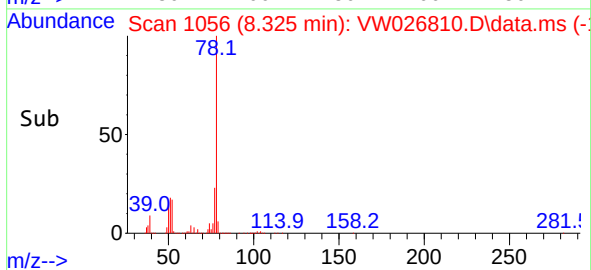
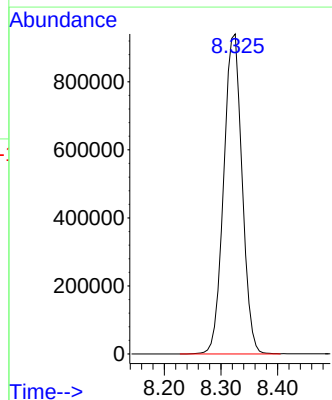
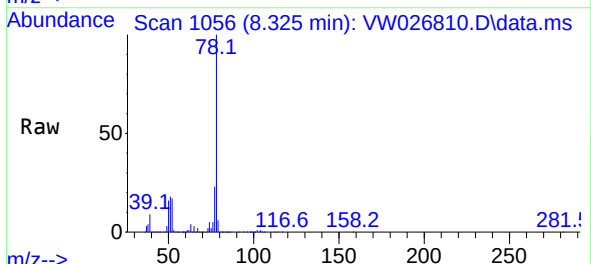
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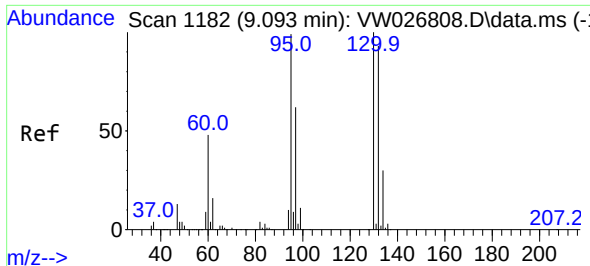
Tgt Ion:117 Resp: 155974
Ion Ratio Lower Upper
117 100
119 96.4 73.0 109.4



#33
Benzene
Concen: 55.532 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

Tgt Ion: 78 Resp: 2117119



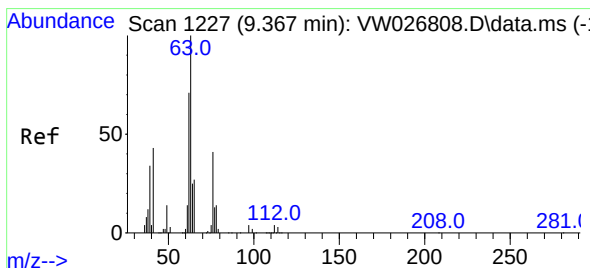
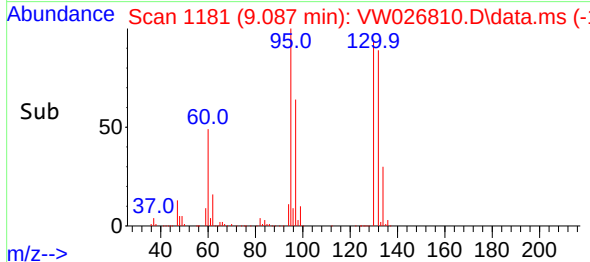
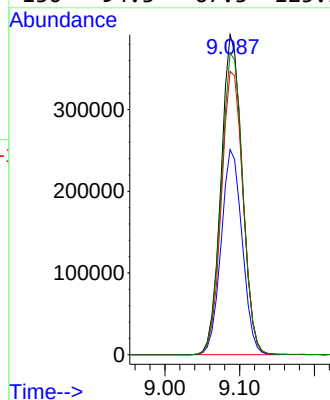
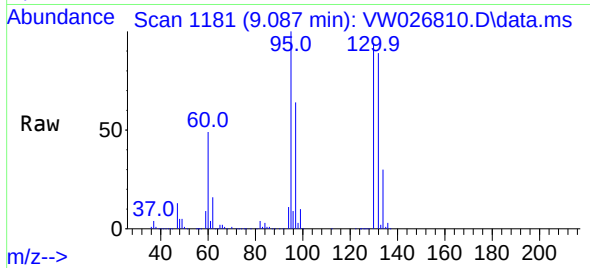


#34
Trichloroethene
Concen: 79.494 ug/L
RT: 9.087 min Scan# 1182
Delta R.T. -0.006 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

Instrument :
MSVOA_W
ClientSampleId :
DCHM8

Tgt Ion: 95 Resp: 771882

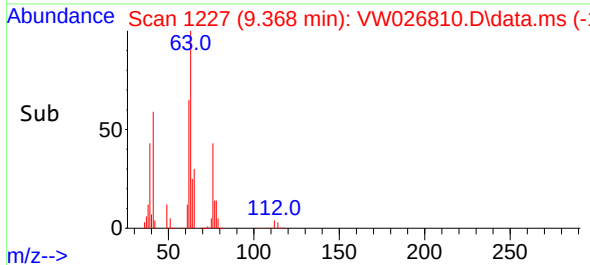
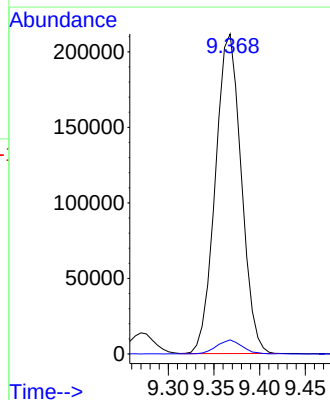
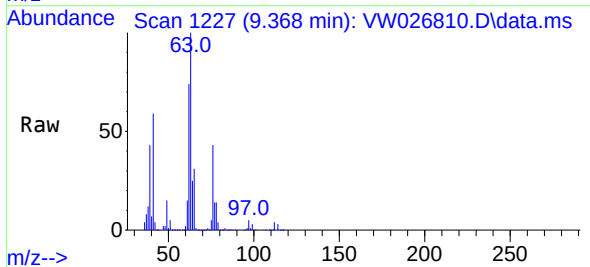
Ion	Ratio	Lower	Upper
95	100		
97	64.1	44.6	82.8
132	88.5	66.4	123.2
130	94.3	67.3	125.1

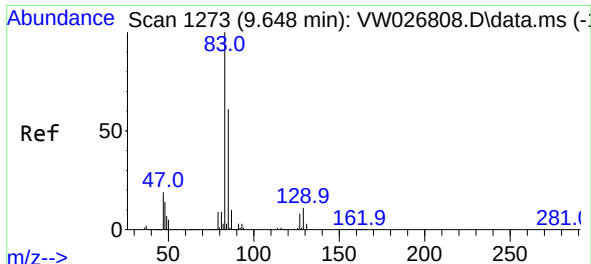


#37
1,2-Dichloropropane
Concen: 39.925 ug/L
RT: 9.368 min Scan# 1227
Delta R.T. -0.000 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

Tgt Ion: 63 Resp: 416923

Ion	Ratio	Lower	Upper
63	100		
112	4.3	3.1	4.7

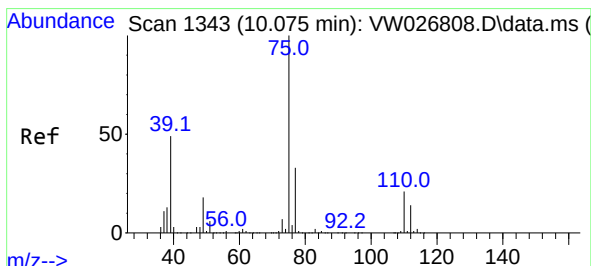
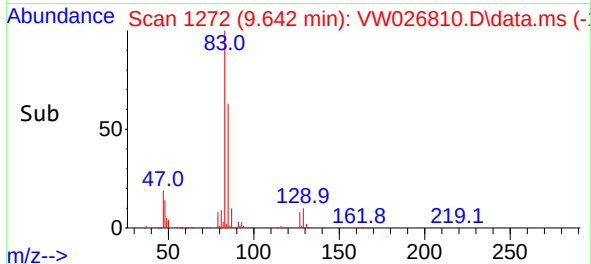
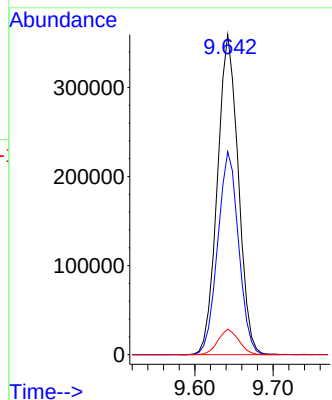
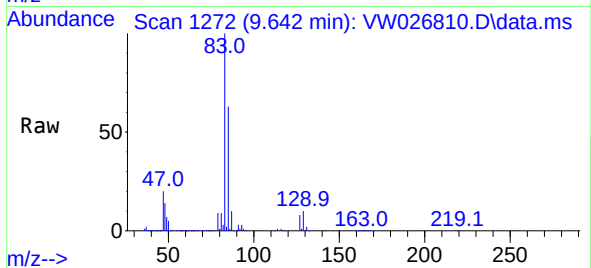




#38
Bromodichloromethane
Concen: 54.395 ug/L
RT: 9.642 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

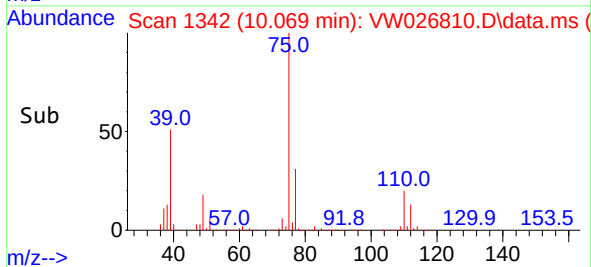
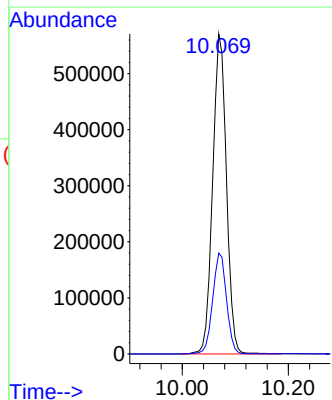
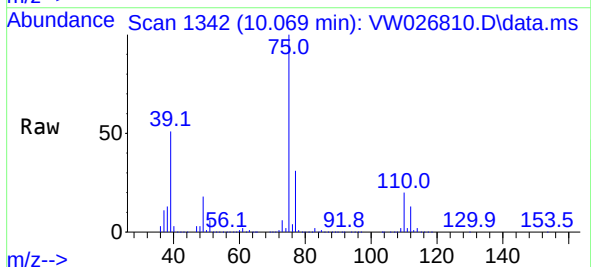
Instrument :
MSVOA_W
ClientSampleId :
DCHM8

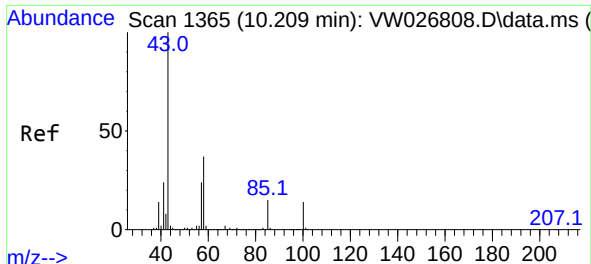
Tgt Ion: 83 Resp: 666359
Ion Ratio Lower Upper
83 100
85 63.4 45.4 84.2
127 8.0 6.2 9.2



#39
cis-1,3-Dichloropropene
Concen: 68.381 ug/L
RT: 10.069 min Scan# 1342
Delta R.T. -0.006 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

Tgt Ion: 75 Resp: 1027263
Ion Ratio Lower Upper
75 100
77 31.5 22.8 42.4





#40

4-Methyl-2-pentanone

Concen: 183.153 ug/L

RT: 10.203 min Scan# 1365

Delta R.T. -0.006 min

Lab File: VW026810.D

Acq: 23 Aug 2023 12:17

Instrument :

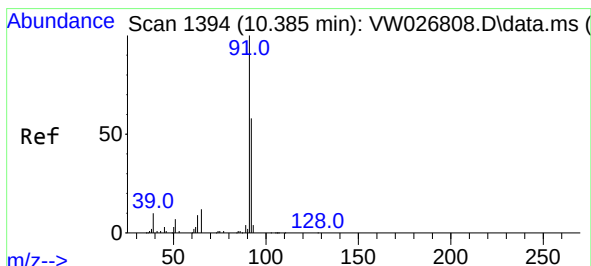
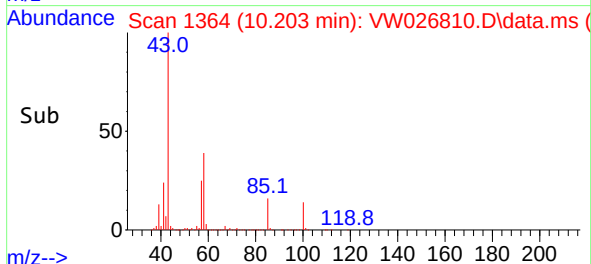
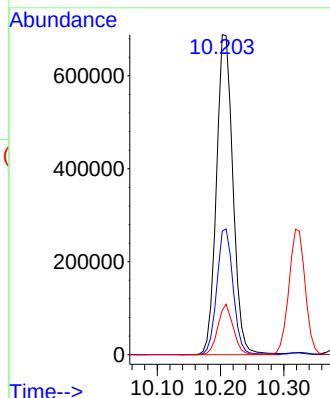
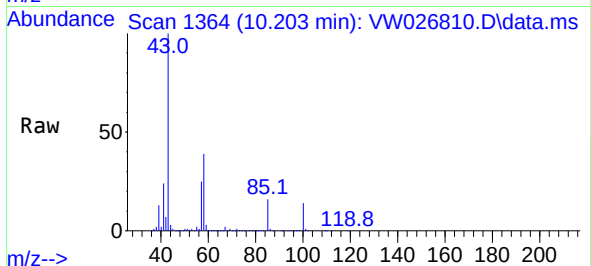
MSVOA_W

ClientSampleId :

DCHM8

Tgt Ion: 43 Resp: 1244087

Ion	Ratio	Lower	Upper
43	100		
58	38.9	29.2	43.8
100	14.7	10.7	16.1



#42

Toluene

Concen: 67.724 ug/L

RT: 10.386 min Scan# 1394

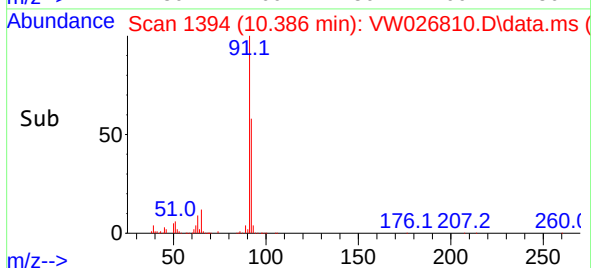
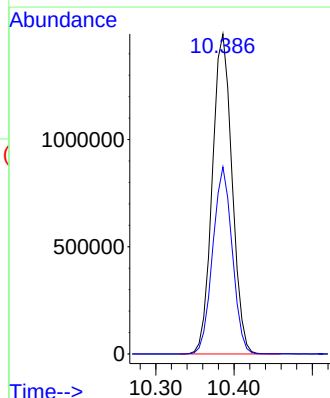
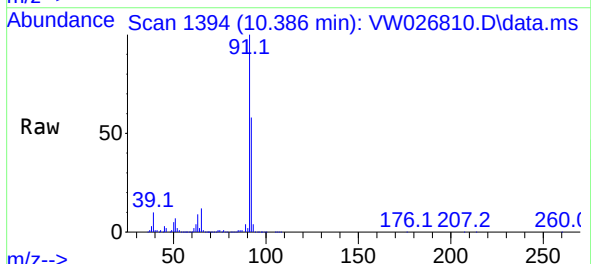
Delta R.T. -0.000 min

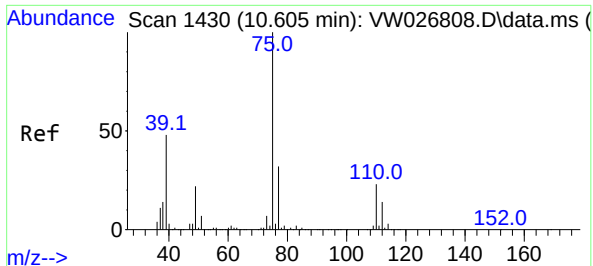
Lab File: VW026810.D

Acq: 23 Aug 2023 12:17

Tgt Ion: 91 Resp: 2611862

Ion	Ratio	Lower	Upper
91	100		
92	58.4	40.8	75.8

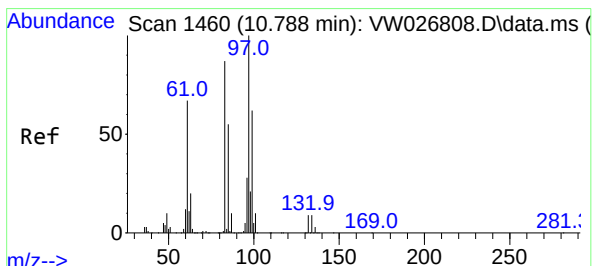
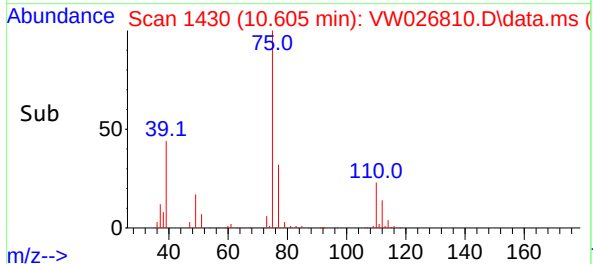
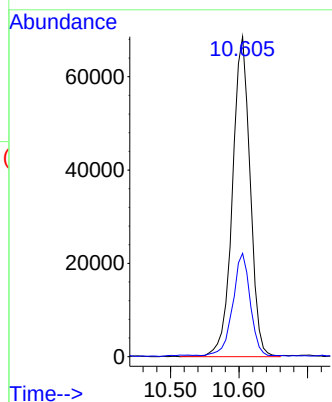
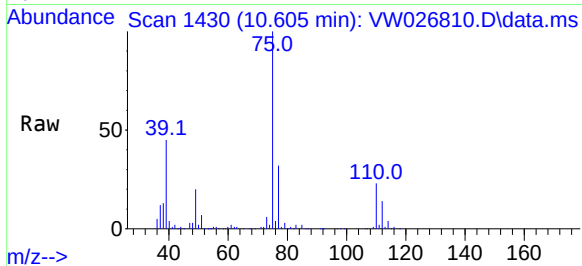




#44
trans-1,3-Dichloropropene
Concen: 9.536 ug/L
RT: 10.605 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

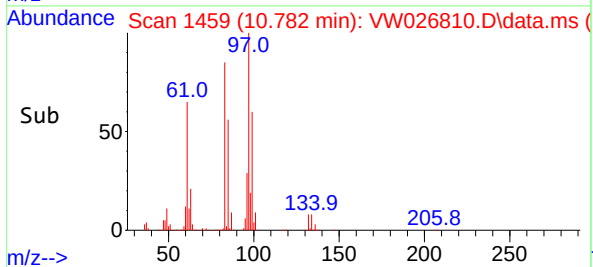
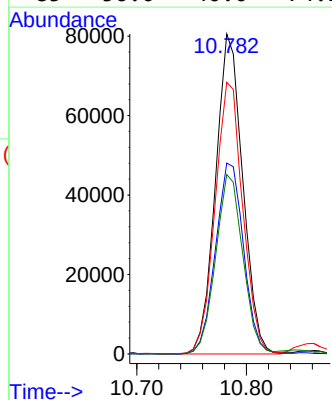
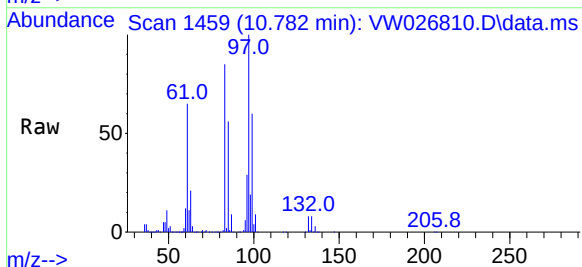
Instrument :
MSVOA_W
ClientSampleId :
DCHM8

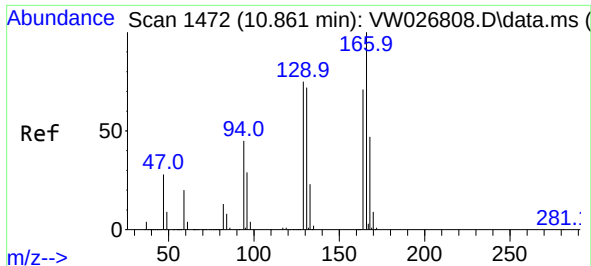
Tgt Ion: 75 Resp: 123309
Ion Ratio Lower Upper
75 100
77 32.3 21.2 39.4



#45
1,1,2-Trichloroethane
Concen: 19.408 ug/L
RT: 10.782 min Scan# 1459
Delta R.T. -0.006 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

Tgt Ion: 97 Resp: 138606
Ion Ratio Lower Upper
97 100
99 59.6 44.2 82.0
83 84.9 61.9 114.9
85 56.0 40.0 74.2

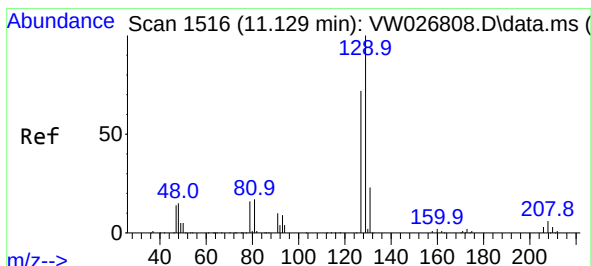
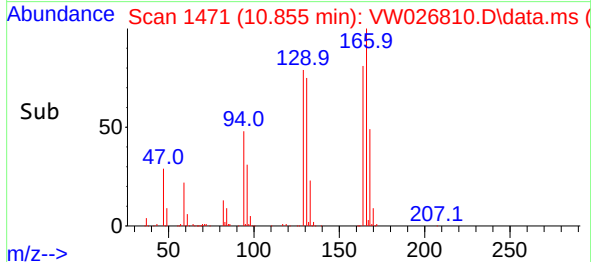
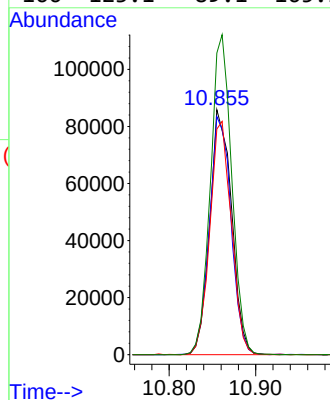
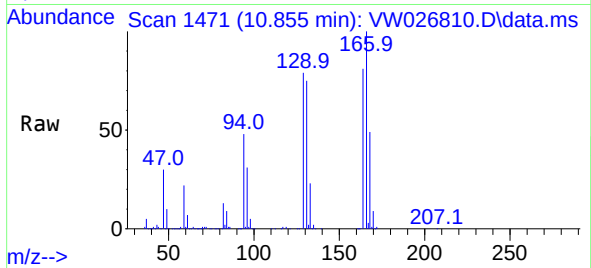




#46
Tetrachloroethene
Concen: 21.390 ug/L
RT: 10.855 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

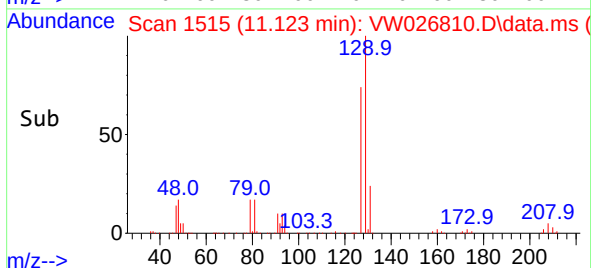
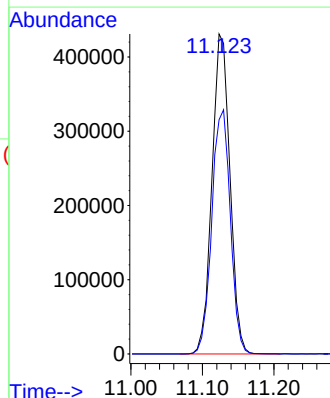
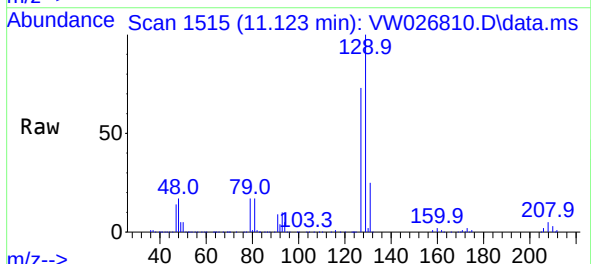
Instrument :
MSVOA_W
ClientSampleId :
DCHM8

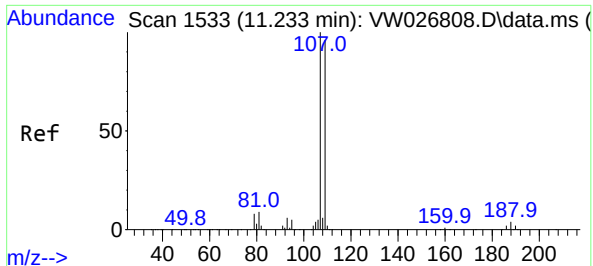
Tgt Ion:164 Resp: 150892
Ion Ratio Lower Upper
164 100
129 97.2 68.1 126.5
131 92.1 65.5 121.7
166 123.1 89.1 165.5



#49
Dibromochloromethane
Concen: 100.839 ug/L
RT: 11.123 min Scan# 1515
Delta R.T. -0.006 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

Tgt Ion:129 Resp: 753225
Ion Ratio Lower Upper
129 100
127 73.2 56.6 105.2

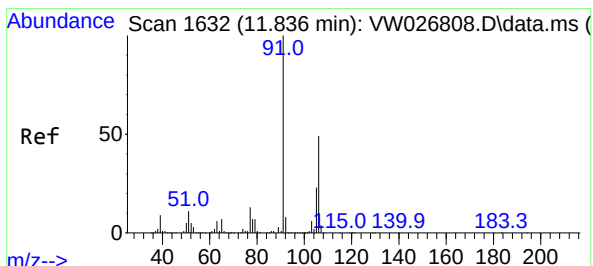
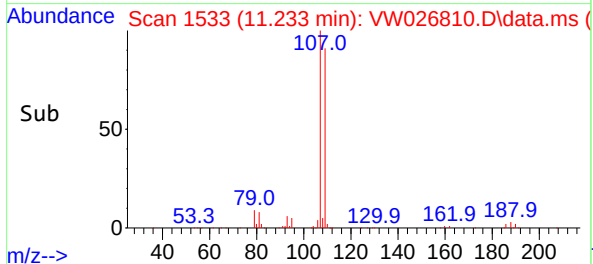
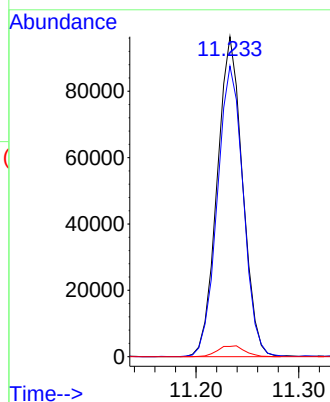
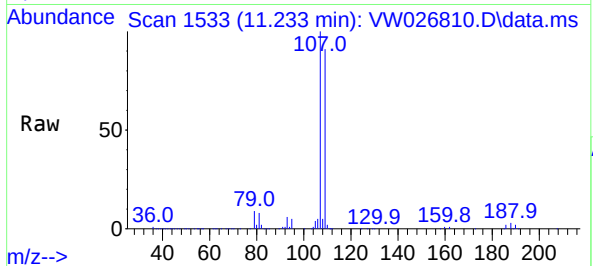




#50
1,2-Dibromoethane
Concen: 24.708 ug/L
RT: 11.233 min Scan# 1533
Delta R.T. -0.000 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

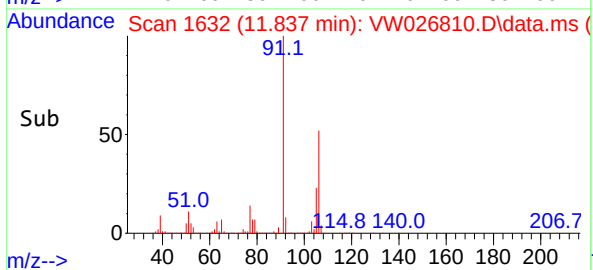
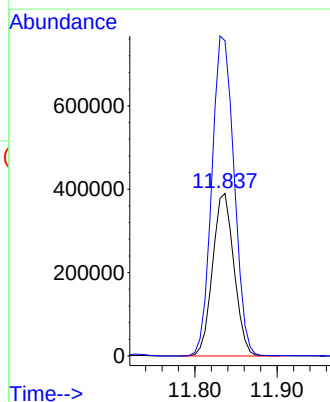
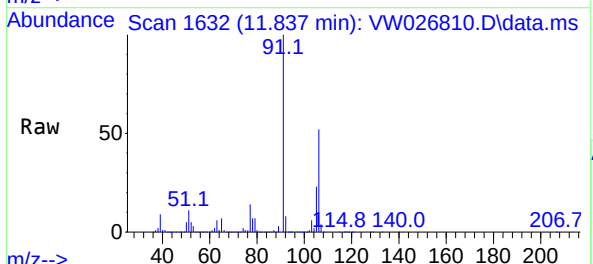
Instrument :
MSVOA_W
ClientSampleId :
DCHM8

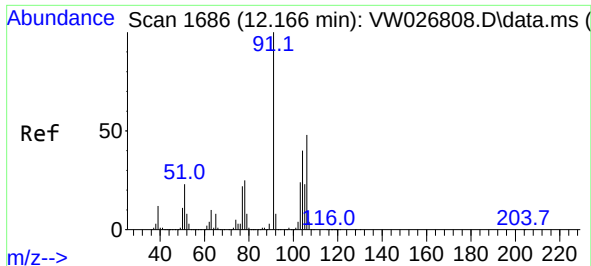
Tgt Ion:107 Resp: 165573
Ion Ratio Lower Upper
107 100
109 90.8 68.8 127.8
188 3.2 2.7 4.1



#53
m,p-Xylene
Concen: 44.064 ug/L
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

Tgt Ion:106 Resp: 705996
Ion Ratio Lower Upper
106 100
91 193.8 152.9 284.1

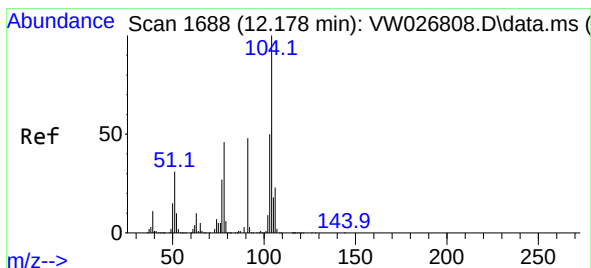
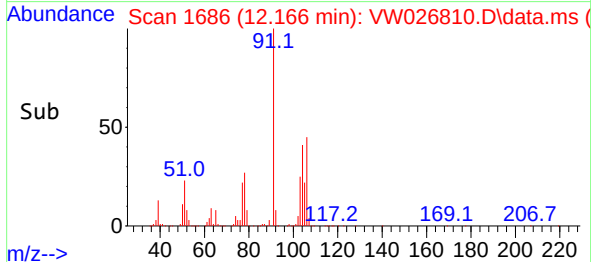
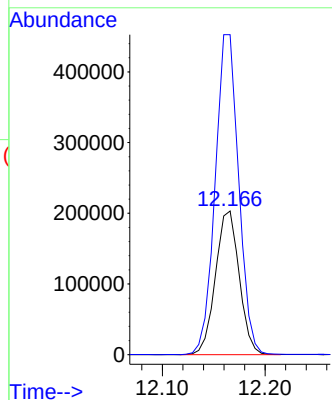
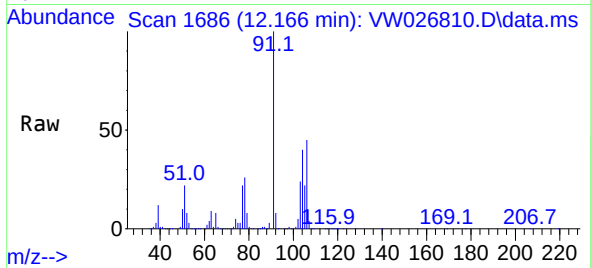




#54
o-Xylene
Concen: 21.782 ug/L
RT: 12.166 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

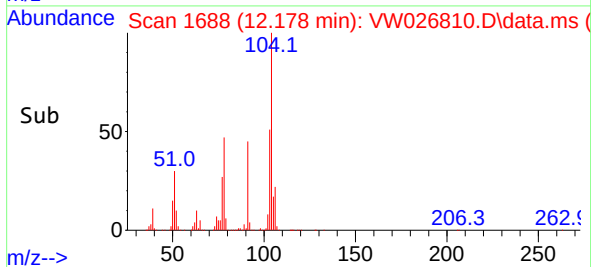
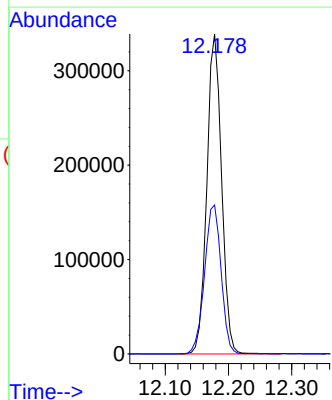
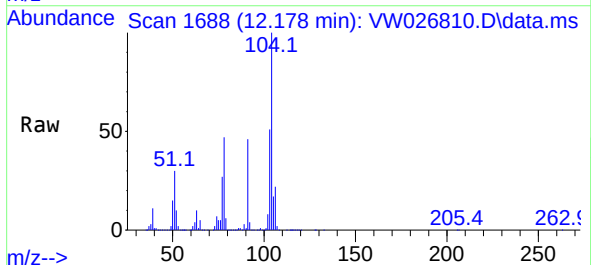
Instrument :
MSVOA_W
ClientSampleId :
DCHM8

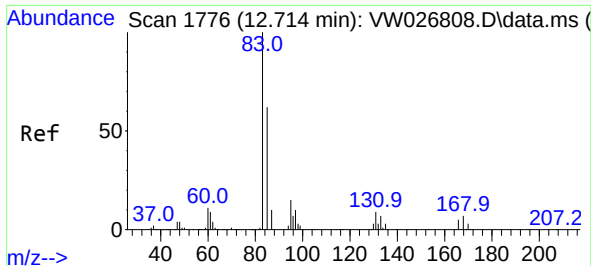
Tgt Ion:106 Resp: 325711
Ion Ratio Lower Upper
106 100
91 222.6 149.9 278.3



#55
Styrene
Concen: 21.148 ug/L
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

Tgt Ion:104 Resp: 549840
Ion Ratio Lower Upper
104 100
78 46.6 33.0 61.2



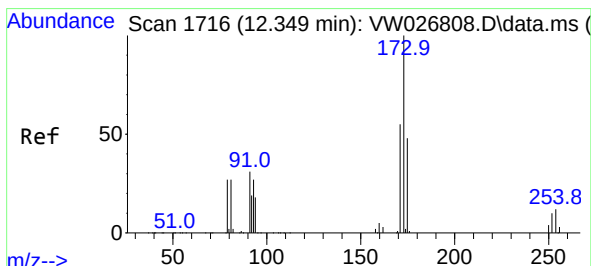
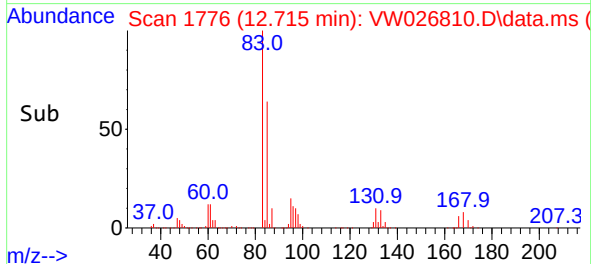
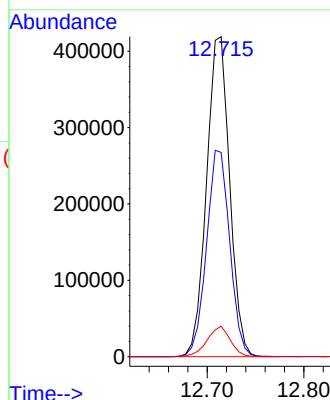
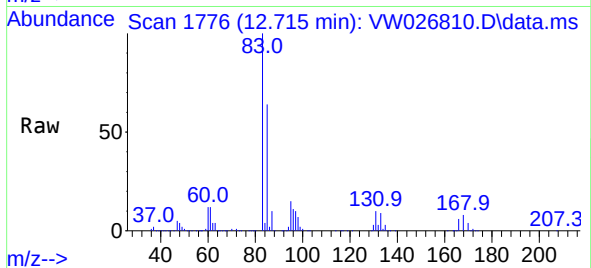


#57
1,1,2,2-Tetrachloroethane
Concen: 77.003 ug/L
RT: 12.715 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

Instrument :
MSVOA_W
ClientSampleId :
DCHM8

Tgt Ion: 83 Resp: 696479

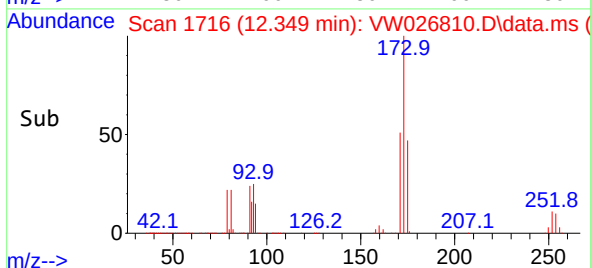
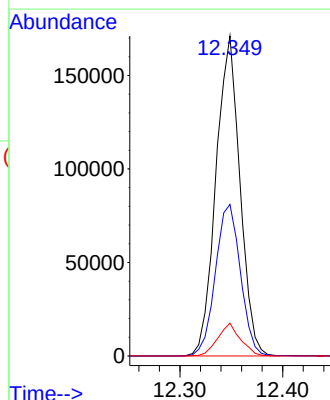
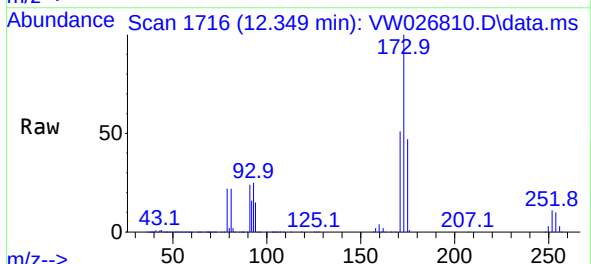
Ion	Ratio	Lower	Upper
83	100		
85	63.8	44.9	83.3
131	9.5	7.4	11.0

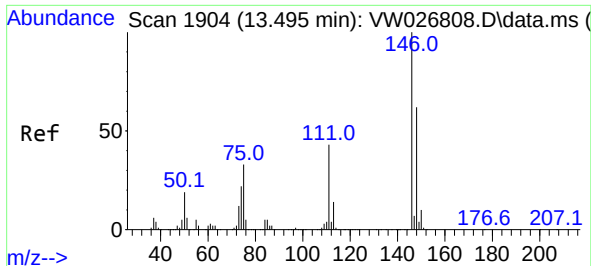


#59
Bromoform
Concen: 62.980 ug/L
RT: 12.349 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

Tgt Ion: 173 Resp: 277840

Ion	Ratio	Lower	Upper
173	100		
175	49.3	36.6	55.0
254	9.7	7.8	11.6

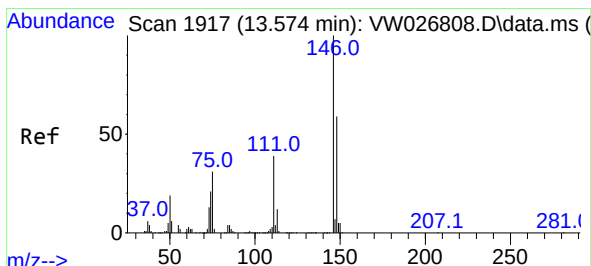
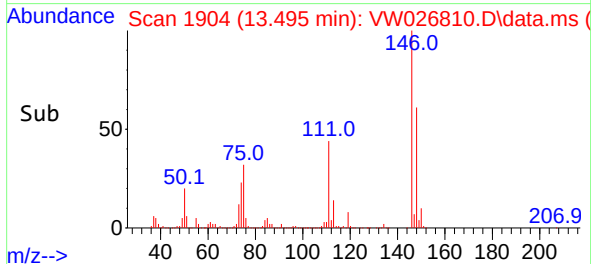
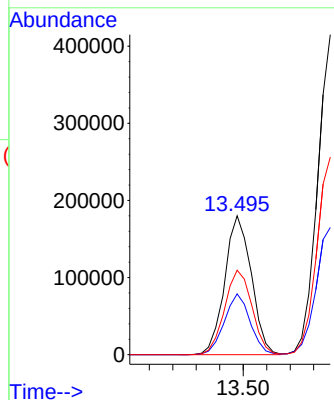
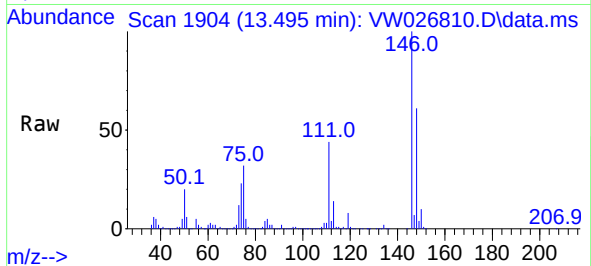




#64
1,3-Dichlorobenzene
Concen: 15.560 ug/L
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

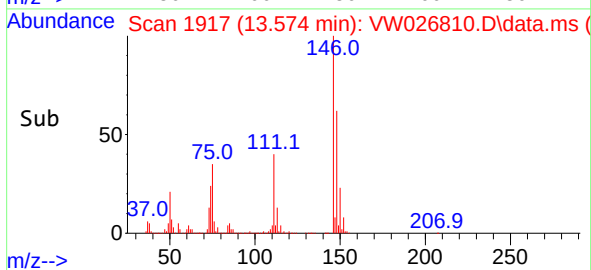
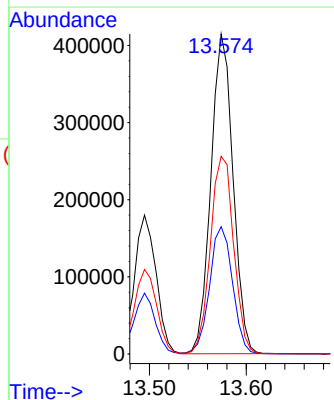
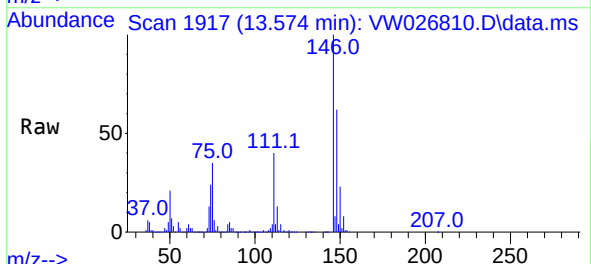
Instrument :
MSVOA_W
ClientSampleId :
DCHM8

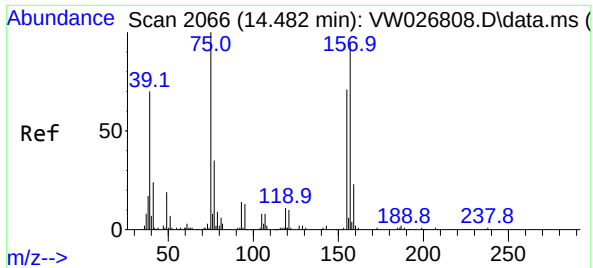
Tgt Ion:146 Resp: 283327
Ion Ratio Lower Upper
146 100
111 43.8 29.1 54.1
148 60.8 38.8 72.0



#65
1,4-Dichlorobenzene
Concen: 34.714 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW026810.D
Acq: 23 Aug 2023 12:17

Tgt Ion:146 Resp: 659679
Ion Ratio Lower Upper
146 100
111 39.7 28.3 52.7
148 61.8 44.2 82.2





#68
 1,2-Dibromo-3-chloropropane
 Concen: 23.384 ug/L
 RT: 14.476 min Scan# 2065
 Delta R.T. -0.000 min
 Lab File: VW026810.D
 Acq: 23 Aug 2023 12:17

Instrument :
 MSVOA_W
 ClientSampleId :
 DCHM8

Tgt Ion:	75	Resp:	38509
Ion	Ratio	Lower	Upper
75	100		
155	70.9	55.0	82.6
157	91.5	77.8	116.6

