

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW082423\
 Data File : VW026849.D
 Acq On : 24 Aug 2023 12:13
 Operator : SY/MD
 Sample : 04108-12DL 2X
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 DCHM8DL

Quant Time: Aug 25 02:24:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM081023SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Aug 25 02:23:07 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	472043	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	468281	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	256490	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	133056	17.147	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	68.600%
7) Chloroethane-d5	2.893	69	101508	17.592	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	70.360%
11) 1,1-Dichloroethene-d2	4.021	65	75959	19.903	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	79.600%
21) 2-Butanone-d5	7.075	46	84481	37.878	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	75.760%
24) Chloroform-d	7.648	84	367234	23.179	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	92.720%
26) 1,2-Dichloroethane-d4	8.301	65	195182	22.324	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	89.280%
32) Benzene-d6	8.276	84	708193	21.943	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	87.760%
36) 1,2-Dichloropropane-d6	9.276	67	210891	20.978	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	83.920%
41) Toluene-d8	10.325	98	645029	23.283	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	93.120%
43) trans-1,3-Dichloroprop...	10.575	79	88061	21.216	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	84.880%
47) 2-Hexanone-d5	10.922	63	43160	40.858	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	81.720%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	173639	21.871	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	87.480%
66) 1,2-Dichlorobenzene-d4	13.848	152	206332	22.475	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	89.920%
Target Compounds						Qvalue
12) 1,1-Dichloroethene	4.045	96	114452	16.404	ug/L	84
13) Acetone	4.118	43	116511	52.539	ug/L	96
16) Methylene chloride	4.923	84	161389	17.674	ug/L	93
17) trans-1,2-Dichloroethene	5.423	96	289167	37.140	ug/L	94
18) Methyl tert-butyl Ether	5.429	73	259766	22.050	ug/L	97
19) 1,1-Dichloroethane	6.216	63	390208	24.351	ug/L	99
20) cis-1,2-Dichloroethene	7.173	96	296966	35.486	ug/L	93
22) 2-Butanone	7.173	43	109884	33.623	ug/L	92
25) Chloroform	7.673	83	616023	39.792	ug/L	98
27) 1,2-Dichloroethane	8.398	62	108753	10.070	ug/L	100
31) Carbon tetrachloride	8.069	117	71785	6.424	ug/L	99
33) Benzene	8.319	78	917612	26.908	ug/L	100
34) Trichloroethene	9.093	95	339799	39.123	ug/L	95
37) 1,2-Dichloropropane	9.367	63	171359	18.345	ug/L	98
38) Bromodichloromethane	9.642	83	280503	25.599	ug/L	99
39) cis-1,3-Dichloropropene	10.069	75	425379	31.656	ug/L	94
40) 4-Methyl-2-pentanone	10.209	43	477607	78.607	ug/L	95
42) Toluene	10.386	91	1140627	33.065	ug/L	99
44) trans-1,3-Dichloropropene	10.605	75	51679	4.468	ug/L	100

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 Quant Title : SFAM01.0
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 Response via : Initial Calibration

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

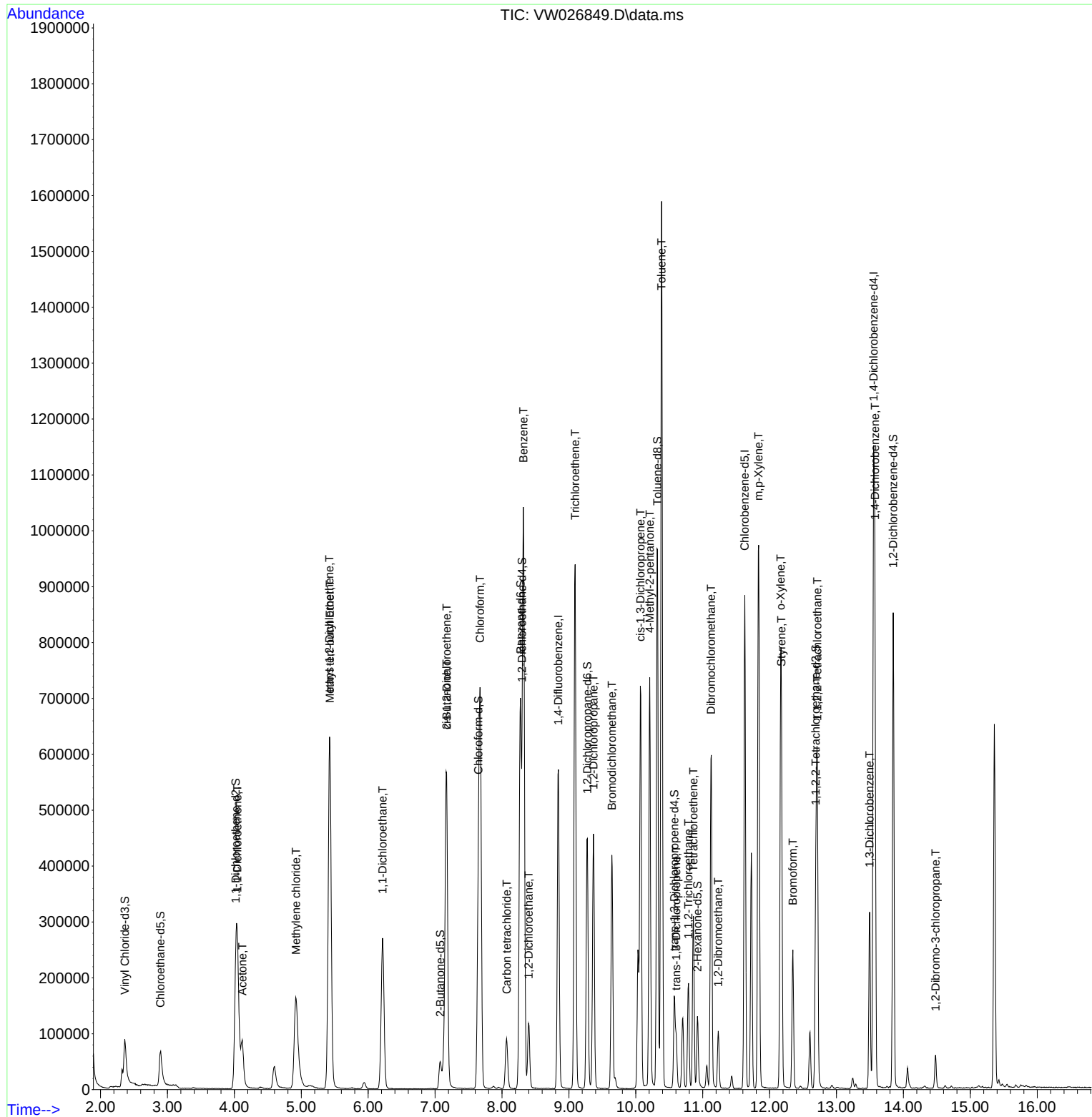
45) 1,1,2-Trichloroethane	10.788	97	57947	9.071	ug/L	94
46) Tetrachloroethene	10.861	164	65892	10.443	ug/L	91
49) Dibromochloromethane	11.123	129	323873	48.474	ug/L	89
50) 1,2-Dibromoethane	11.233	107	68490	11.426	ug/L	96
53) m,p-Xylene	11.836	106	305875	21.343	ug/L	90
54) o-Xylene	12.166	106	137744	10.298	ug/L	96
55) Styrene	12.178	104	237920	10.230	ug/L	100
57) 1,1,2,2-Tetrachloroethane	12.714	83	287615	35.550	ug/L	97
59) Bromoform	12.349	173	106532	26.514	ug/L	92
64) 1,3-Dichlorobenzene	13.495	146	124039	7.479	ug/L	88
65) 1,4-Dichlorobenzene	13.574	146	306097	17.686	ug/L	97
68) 1,2-Dibromo-3-chloropr...	14.482	75	15831	10.555	ug/L	92

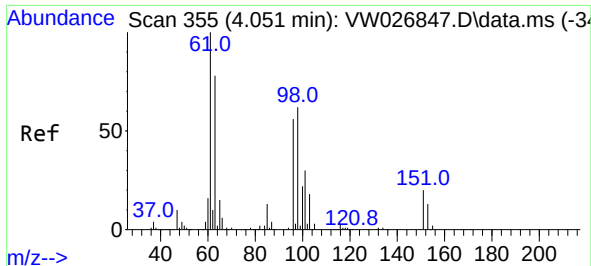
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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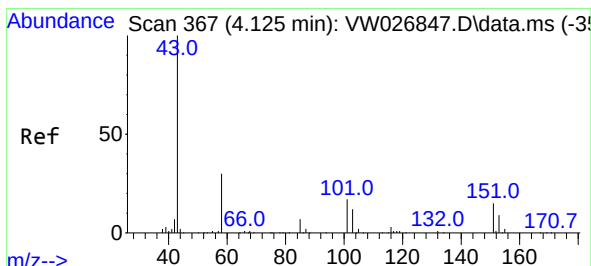
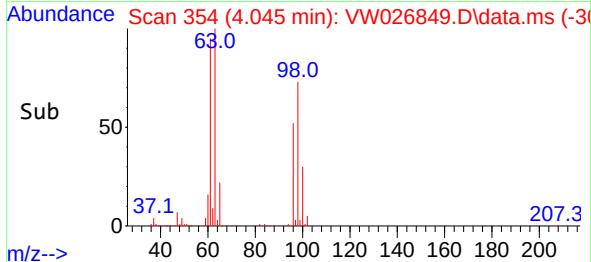
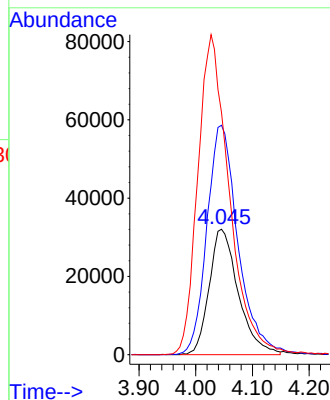
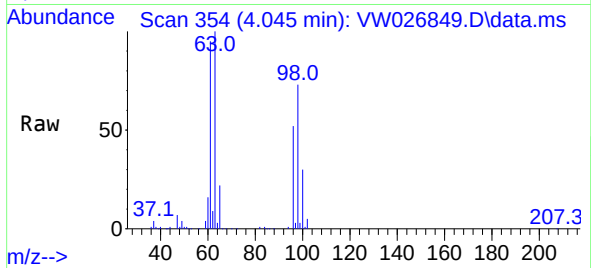




#12
1,1-Dichloroethene
Concen: 16.404 ug/L
RT: 4.045 min Scan# 31
Delta R.T. -0.006 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

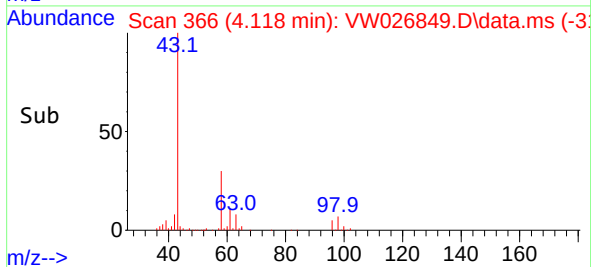
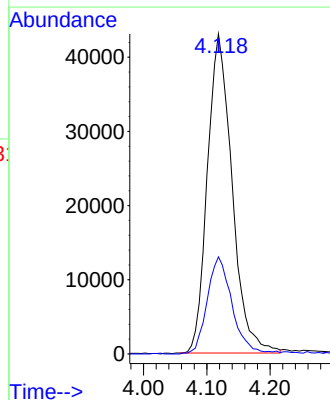
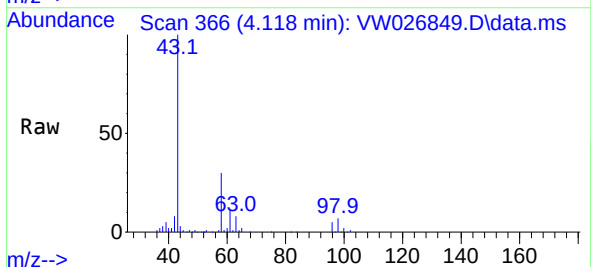
Instrument :
MSVOA_W
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DCHM8DL

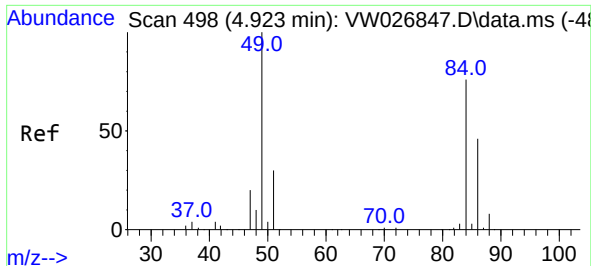
Tgt Ion: 96 Resp: 114452
Ion Ratio Lower Upper
96 100
61 182.9 133.2 247.4
63 193.1 109.0 202.4



#13
Acetone
Concen: 52.539 ug/L
RT: 4.118 min Scan# 366
Delta R.T. -0.006 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

Tgt Ion: 43 Resp: 116511
Ion Ratio Lower Upper
43 100
58 30.6 0.0 57.4

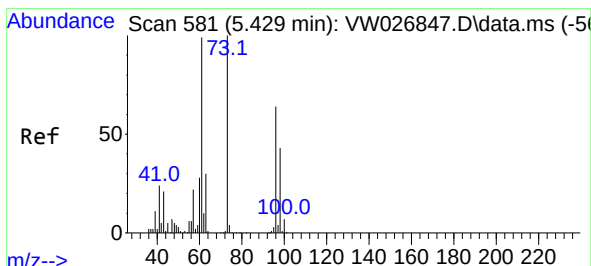
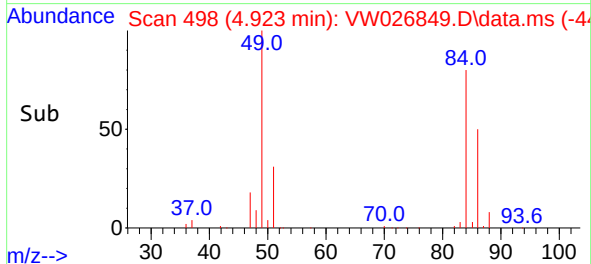
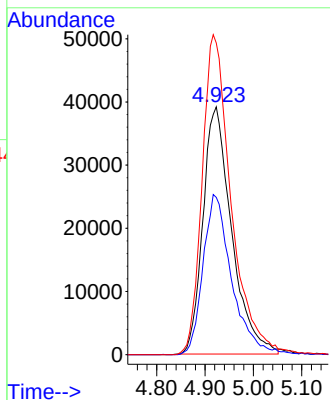
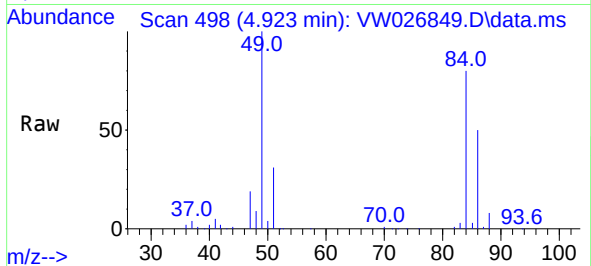




#16
Methylene chloride
Concen: 17.674 ug/L
RT: 4.923 min Scan# 49
Delta R.T. -0.000 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

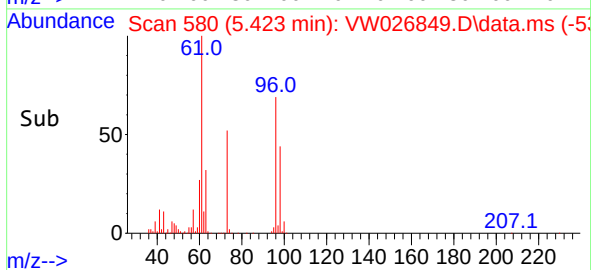
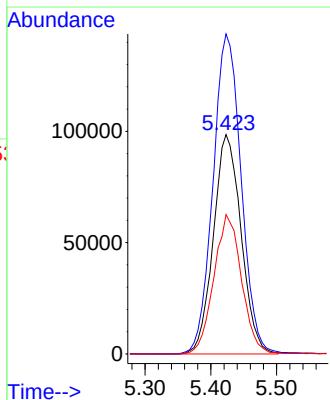
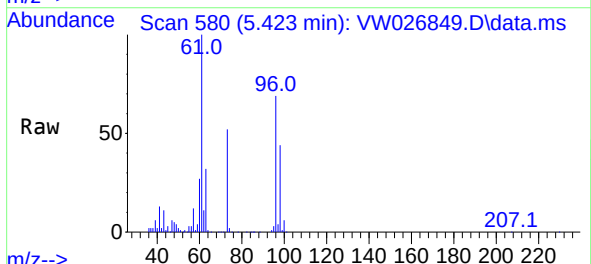
Instrument :
MSVOA_W
ClientSampleId :
DCHM8DL

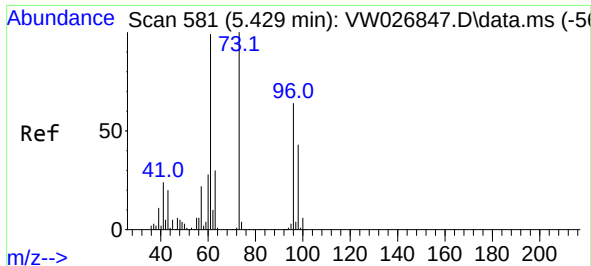
Tgt Ion: 84 Resp: 161389
Ion Ratio Lower Upper
84 100
86 63.5 43.5 80.9
49 125.8 96.0 178.2



#17
trans-1,2-Dichloroethene
Concen: 37.140 ug/L
RT: 5.423 min Scan# 580
Delta R.T. -0.006 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

Tgt Ion: 96 Resp: 289167
Ion Ratio Lower Upper
96 100
61 145.9 109.4 203.2
98 63.5 43.6 81.0

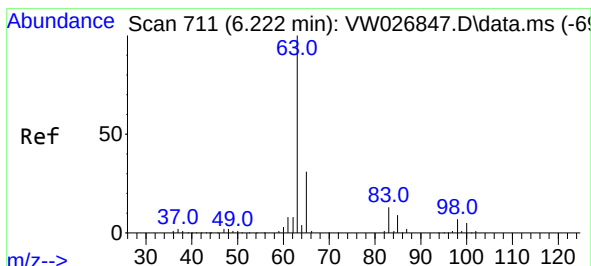
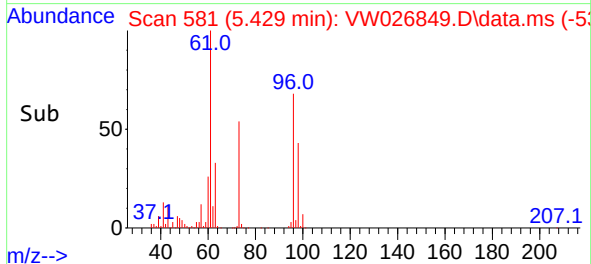
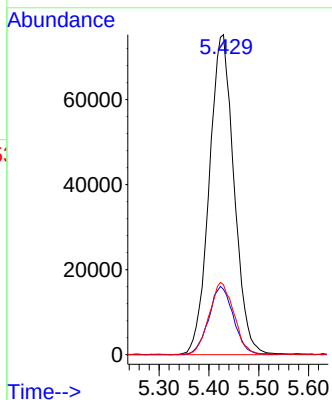
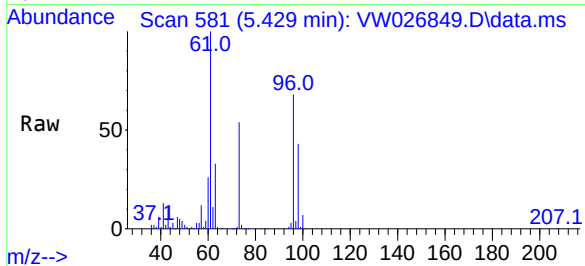




#18
Methyl tert-butyl Ether
Concen: 22.050 ug/L
RT: 5.429 min Scan# 581
Delta R.T. -0.000 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

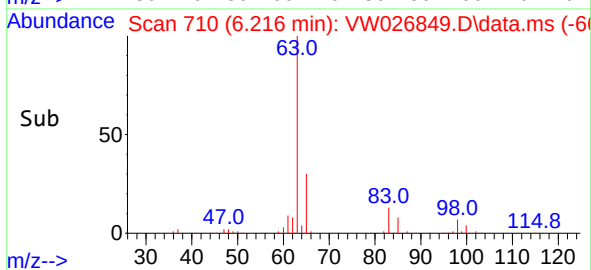
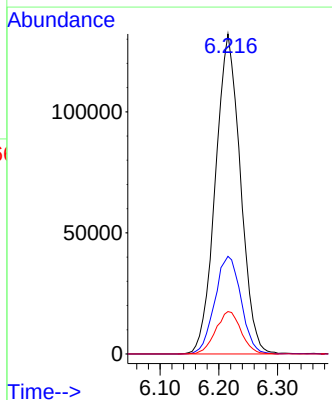
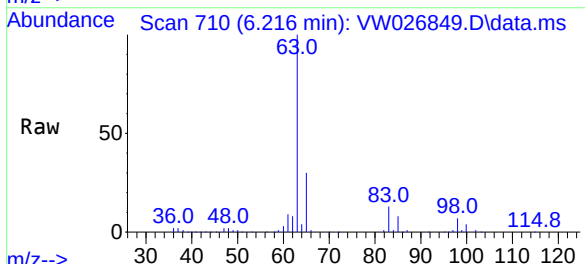
Instrument :
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ClientSampleId :
DCHM8DL

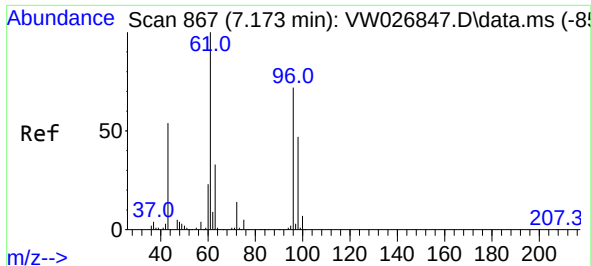
Tgt Ion: 73 Resp: 259766
Ion Ratio Lower Upper
73 100
43 21.3 18.0 27.0
57 22.6 19.3 28.9



#19
1,1-Dichloroethane
Concen: 24.351 ug/L
RT: 6.216 min Scan# 710
Delta R.T. -0.006 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

Tgt Ion: 63 Resp: 390208
Ion Ratio Lower Upper
63 100
65 30.5 21.8 40.6
83 13.3 9.0 16.6

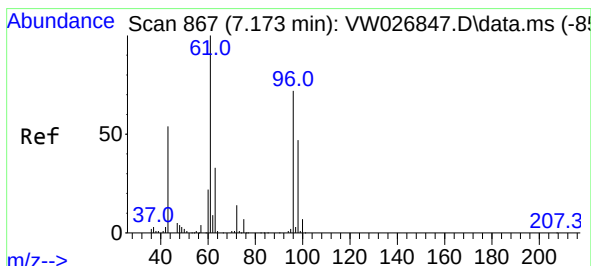
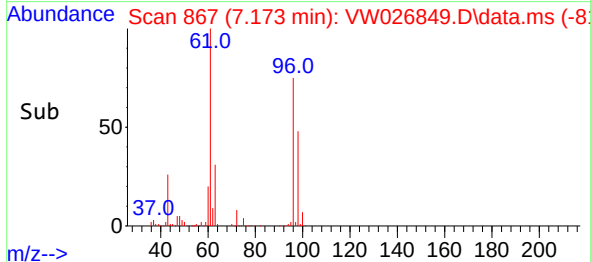
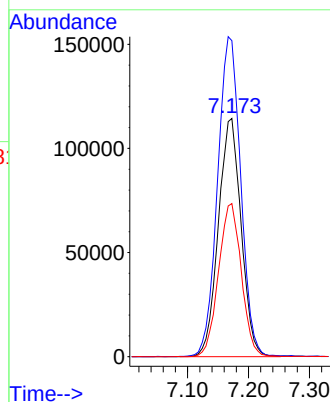
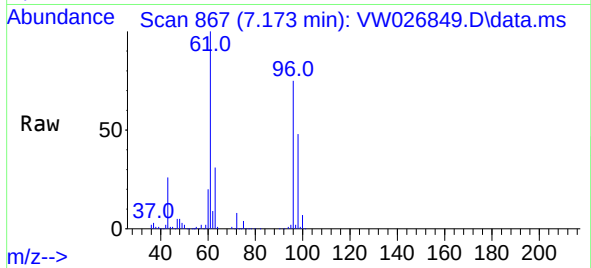




#20
cis-1,2-Dichloroethene
Concen: 35.486 ug/L
RT: 7.173 min Scan# 867
Delta R.T. -0.000 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

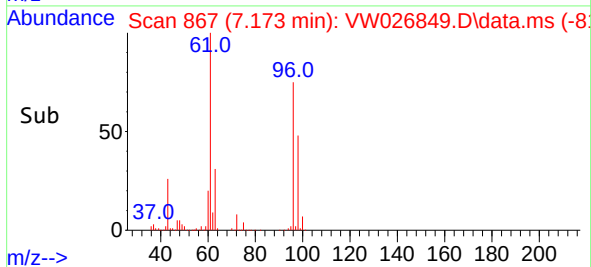
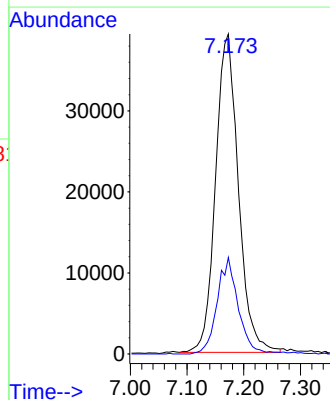
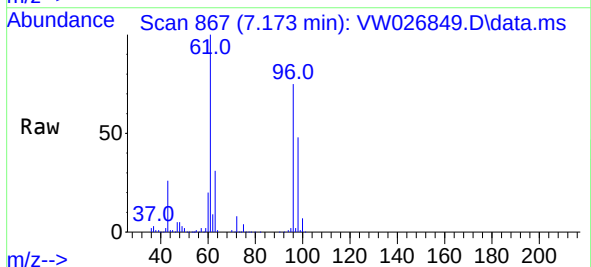
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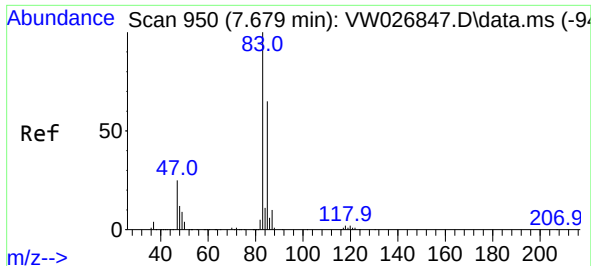
Tgt Ion: 96 Resp: 296966
Ion Ratio Lower Upper
96 100
61 132.6 101.2 188.0
98 64.2 43.8 81.3



#22
2-Butanone
Concen: 33.623 ug/L
RT: 7.173 min Scan# 867
Delta R.T. -0.000 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

Tgt Ion: 43 Resp: 109884
Ion Ratio Lower Upper
43 100
72 27.6 11.8 35.4

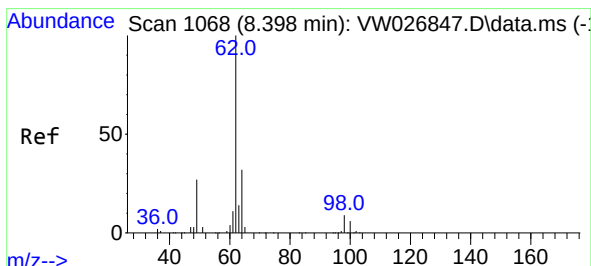
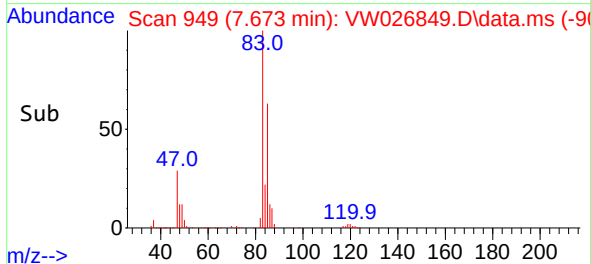
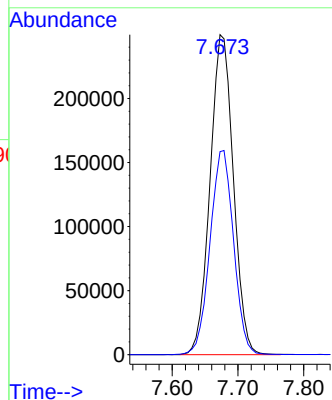
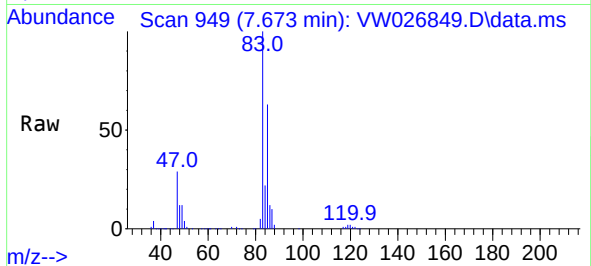




#25
Chloroform
Concen: 39.792 ug/L
RT: 7.673 min Scan# 949
Delta R.T. -0.006 min
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Acq: 24 Aug 2023 12:13

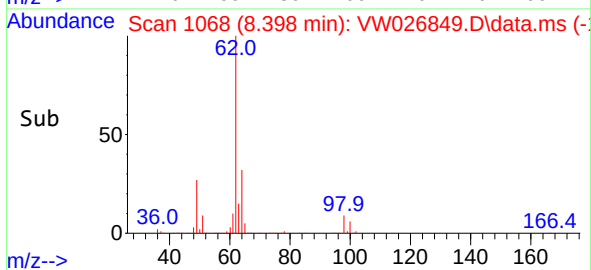
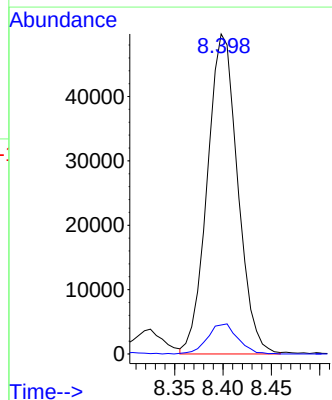
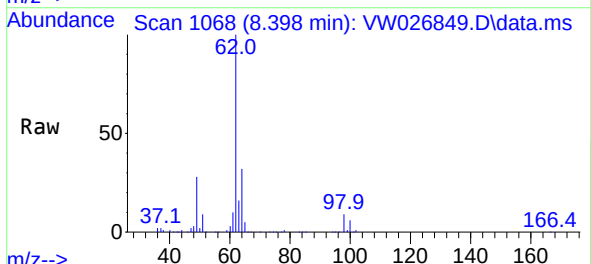
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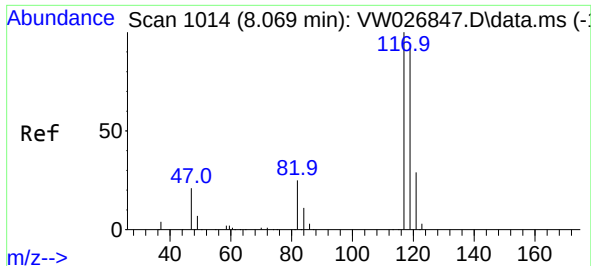
Tgt Ion: 83 Resp: 616023
Ion Ratio Lower Upper
83 100
85 63.5 45.4 84.2



#27
1,2-Dichloroethane
Concen: 10.070 ug/L
RT: 8.398 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

Tgt Ion: 62 Resp: 108753
Ion Ratio Lower Upper
62 100
98 9.0 7.1 10.7

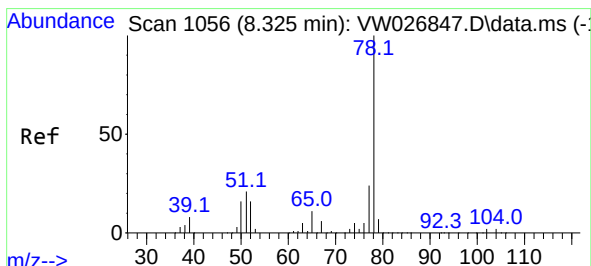
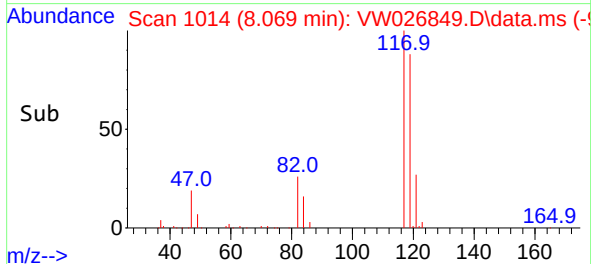
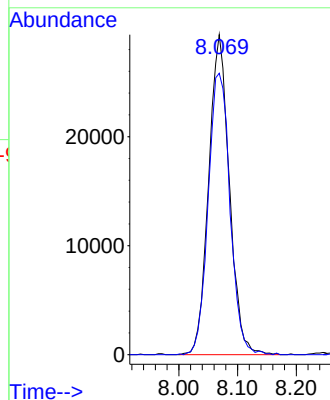
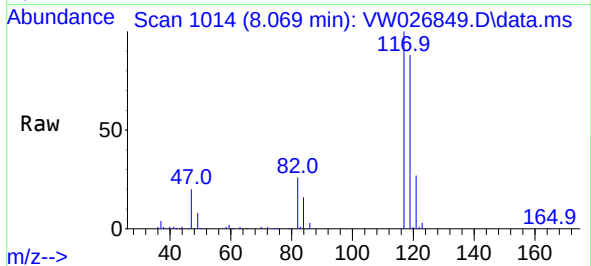




#31
Carbon tetrachloride
Concen: 6.424 ug/L
RT: 8.069 min Scan# 1014
Delta R.T. -0.000 min
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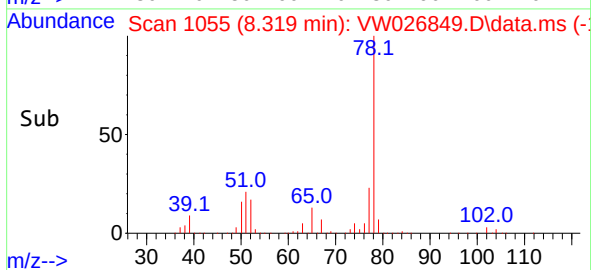
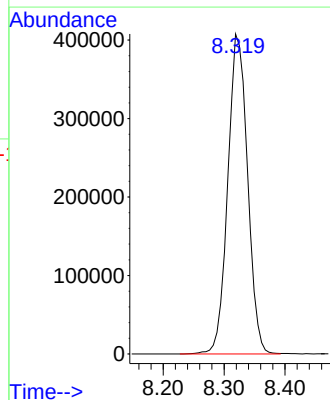
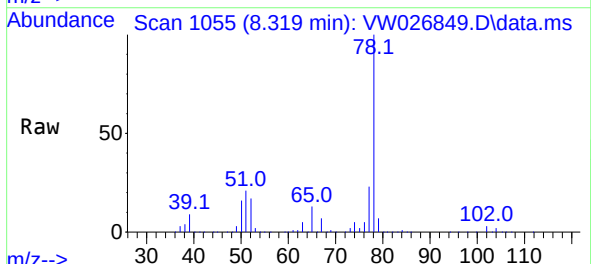
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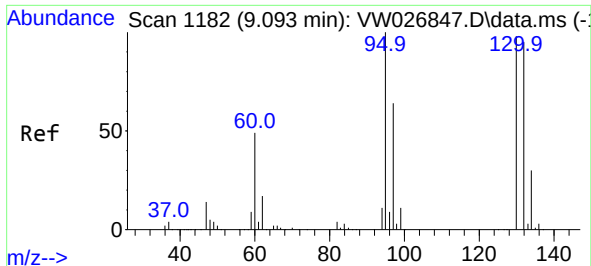
Tgt Ion:117 Resp: 71785
Ion Ratio Lower Upper
117 100
119 92.5 73.0 109.4



#33
Benzene
Concen: 26.908 ug/L
RT: 8.319 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

Tgt Ion: 78 Resp: 917612

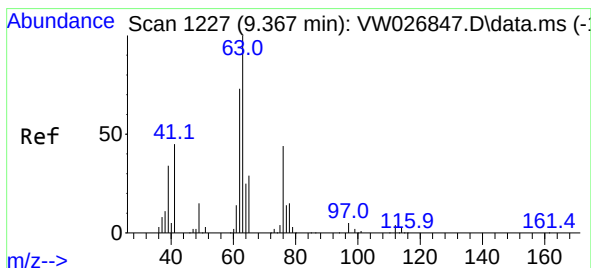
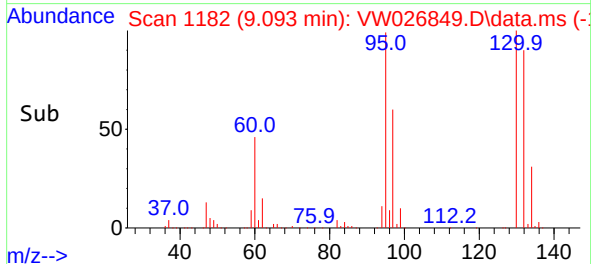
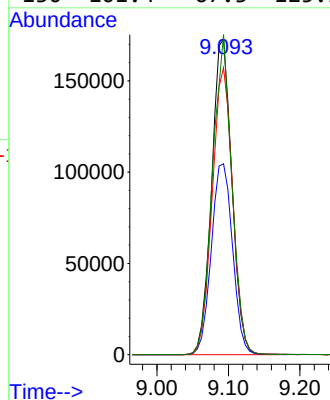
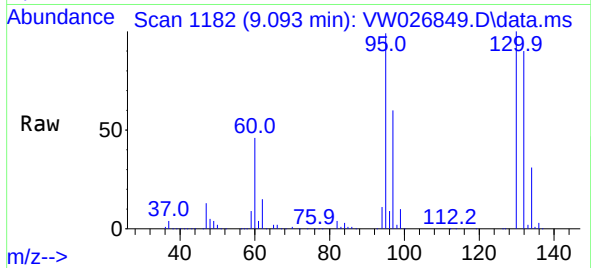




#34
Trichloroethene
Concen: 39.123 ug/L
RT: 9.093 min Scan# 1182
Delta R.T. -0.000 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

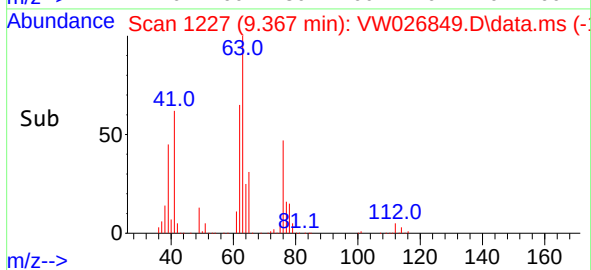
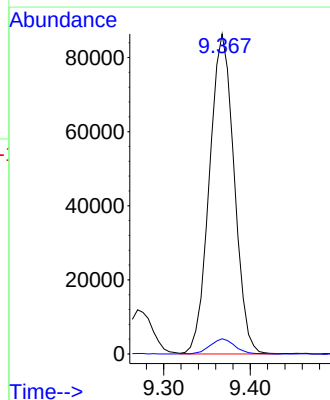
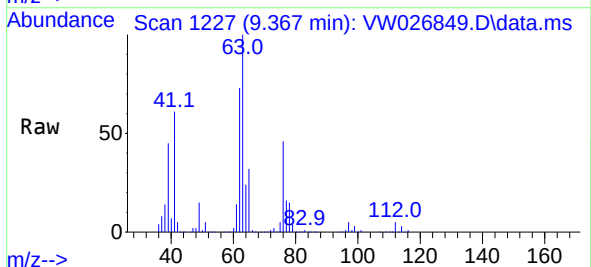
Instrument :
MSVOA_W
ClientSampleId :
DCHM8DL

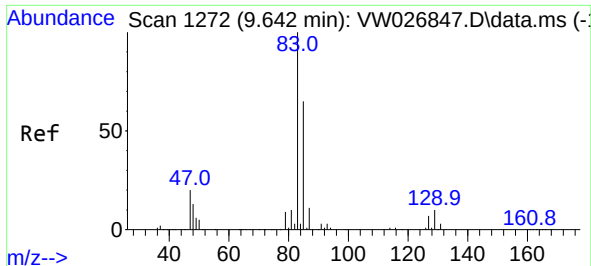
Tgt Ion: 95 Resp: 339799
Ion Ratio Lower Upper
95 100
97 60.5 44.6 82.8
132 90.9 66.4 123.2
130 101.4 67.3 125.1



#37
1,2-Dichloropropane
Concen: 18.345 ug/L
RT: 9.367 min Scan# 1227
Delta R.T. -0.000 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

Tgt Ion: 63 Resp: 171359
Ion Ratio Lower Upper
63 100
112 4.5 3.1 4.7

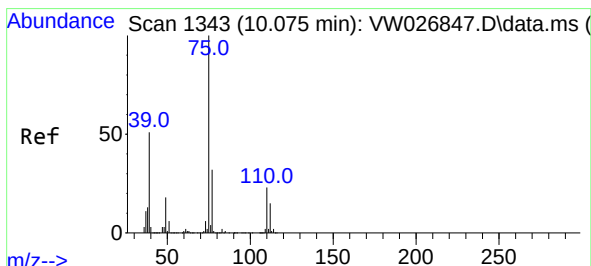
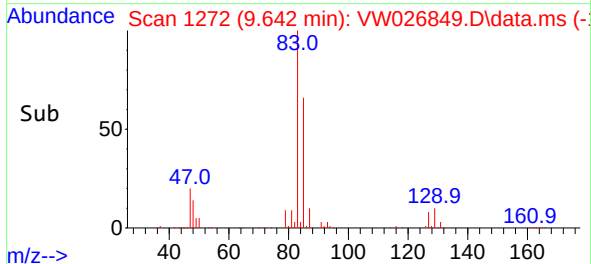
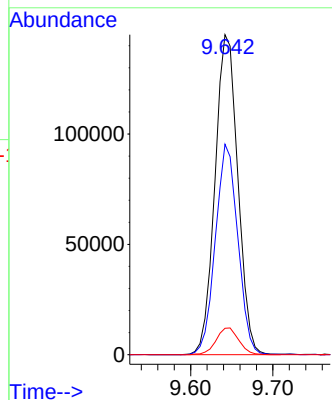
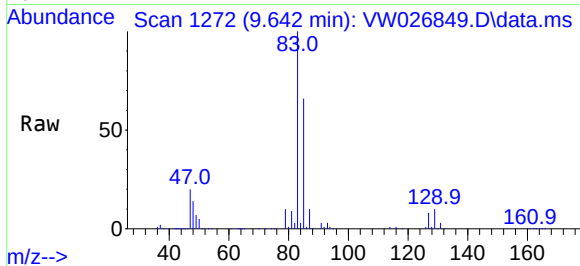




#38
Bromodichloromethane
Concen: 25.599 ug/L
RT: 9.642 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

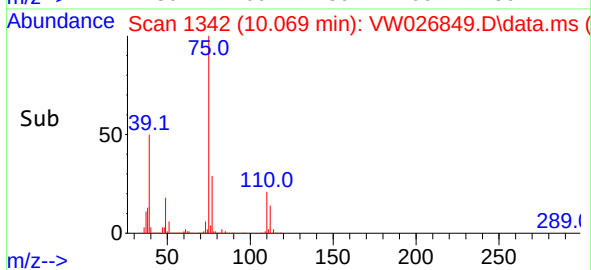
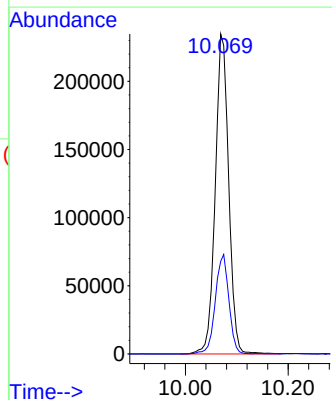
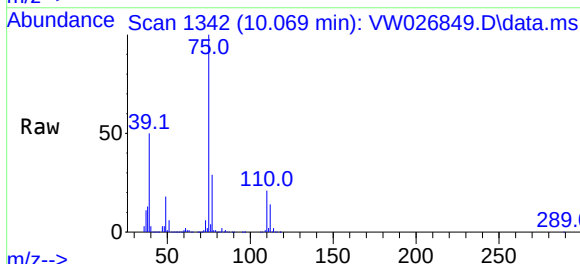
Instrument :
MSVOA_W
ClientSampleId :
DCHM8DL

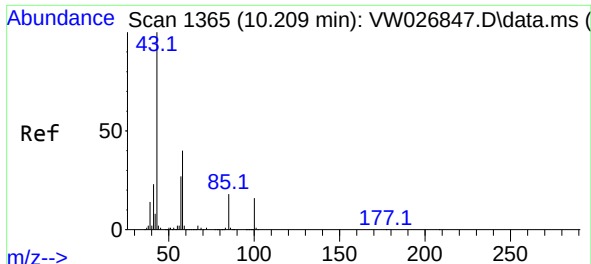
Tgt Ion: 83 Resp: 280503
Ion Ratio Lower Upper
83 100
85 65.7 45.4 84.2
127 8.3 6.2 9.2



#39
cis-1,3-Dichloropropene
Concen: 31.656 ug/L
RT: 10.069 min Scan# 1342
Delta R.T. -0.006 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

Tgt Ion: 75 Resp: 425379
Ion Ratio Lower Upper
75 100
77 29.0 22.8 42.4

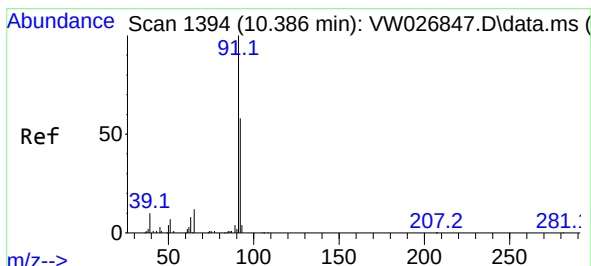
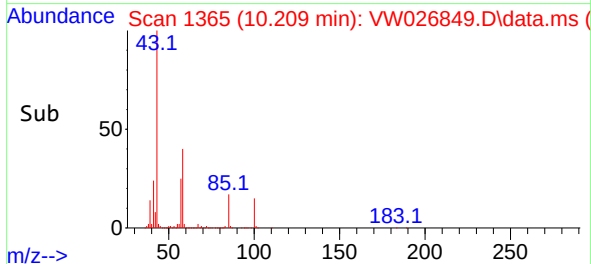
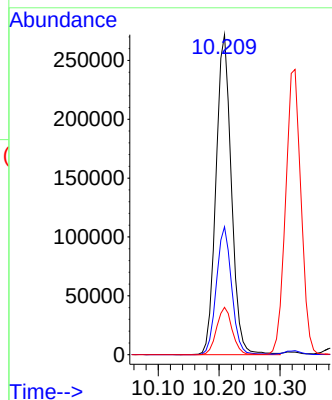
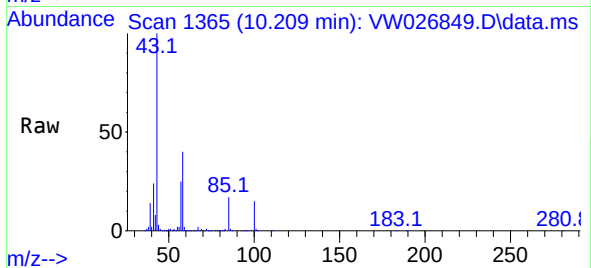




#40
4-Methyl-2-pentanone
Concen: 78.607 ug/L
RT: 10.209 min Scan# 1365
Delta R.T. -0.000 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

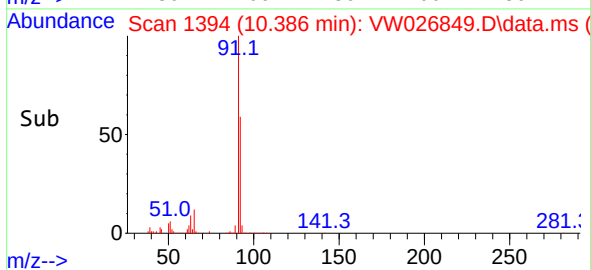
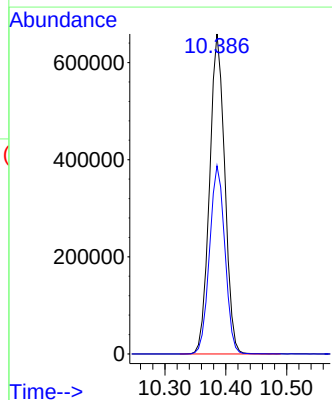
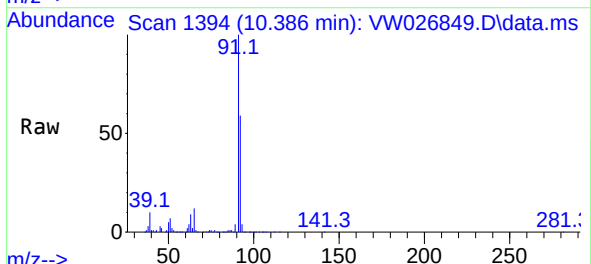
Instrument :
MSVOA_W
ClientSampleId :
DCHM8DL

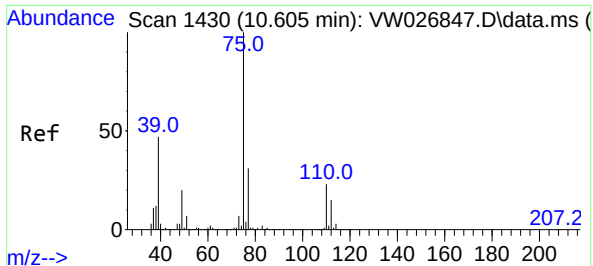
Tgt Ion: 43 Resp: 477607
Ion Ratio Lower Upper
43 100
58 39.5 29.2 43.8
100 14.9 10.7 16.1



#42
Toluene
Concen: 33.065 ug/L
RT: 10.386 min Scan# 1394
Delta R.T. -0.000 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

Tgt Ion: 91 Resp: 1140627
Ion Ratio Lower Upper
91 100
92 58.8 40.8 75.8

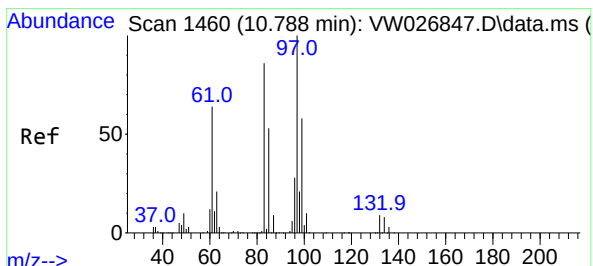
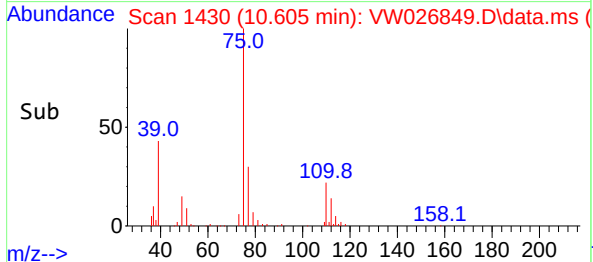
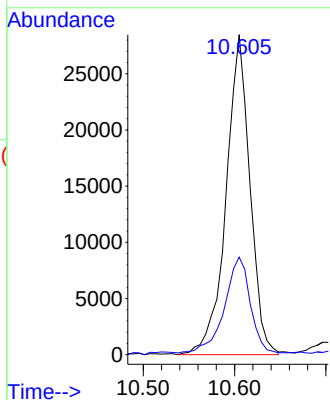
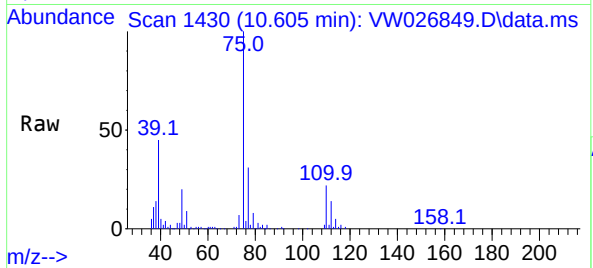




#44
trans-1,3-Dichloropropene
Concen: 4.468 ug/L
RT: 10.605 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

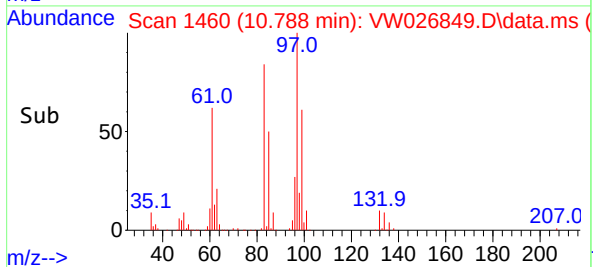
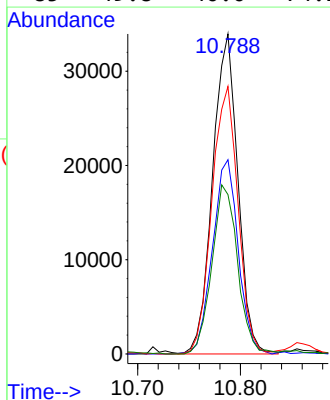
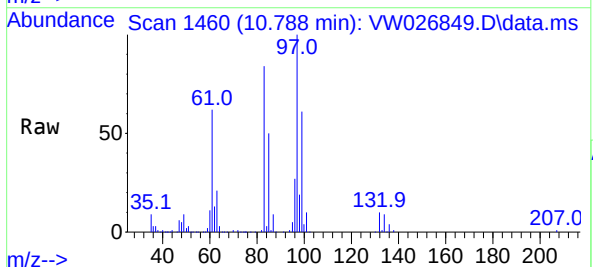
Instrument :
MSVOA_W
ClientSampleId :
DCHM8DL

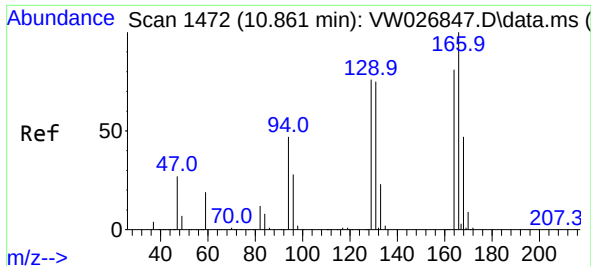
Tgt Ion: 75 Resp: 51679
Ion Ratio Lower Upper
75 100
77 30.5 21.2 39.4



#45
1,1,2-Trichloroethane
Concen: 9.071 ug/L
RT: 10.788 min Scan# 1460
Delta R.T. -0.000 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

Tgt Ion: 97 Resp: 57947
Ion Ratio Lower Upper
97 100
99 60.7 44.2 82.0
83 83.6 61.9 114.9
85 49.8 40.0 74.2



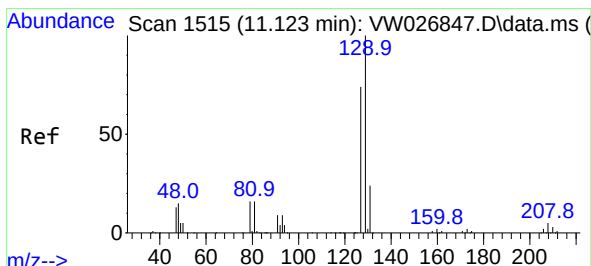
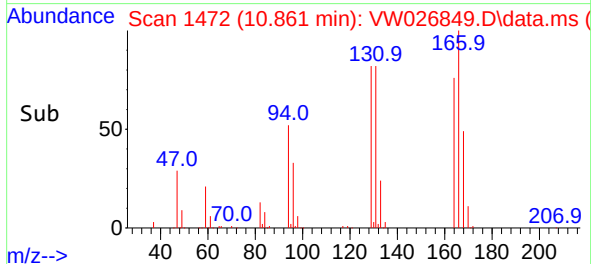
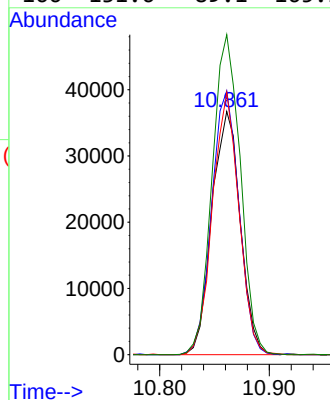
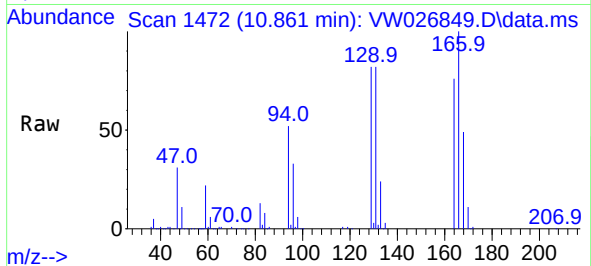


#46
Tetrachloroethene
Concen: 10.443 ug/L
RT: 10.861 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

Instrument :
MSVOA_W
ClientSampleId :
DCHM8DL

Tgt Ion:164 Resp: 65892

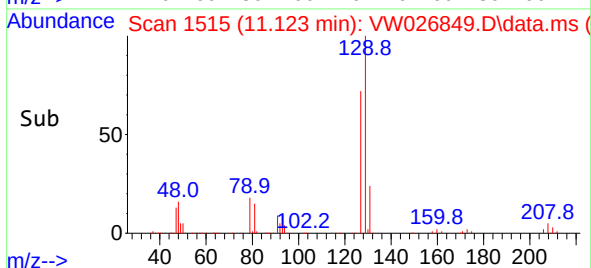
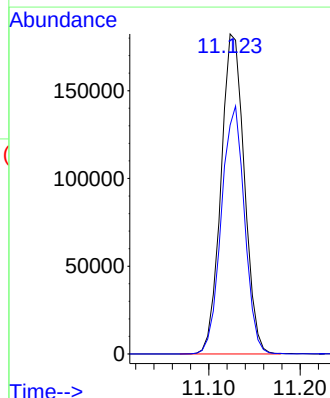
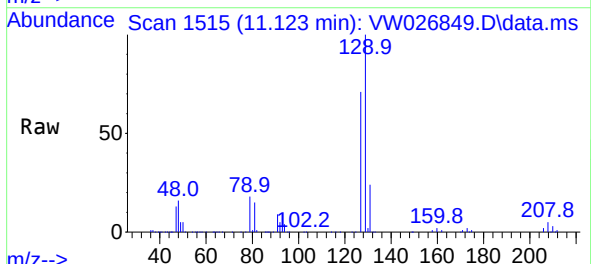
Ion	Ratio	Lower	Upper
164	100		
129	108.5	68.1	126.5
131	107.9	65.5	121.7
166	131.6	89.1	165.5

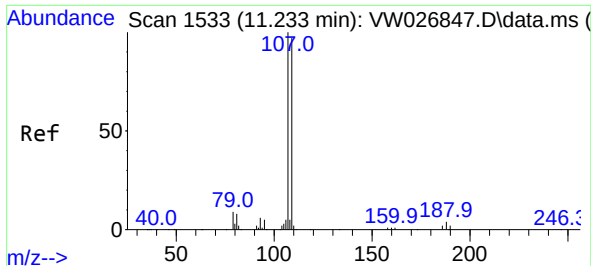


#49
Dibromochloromethane
Concen: 48.474 ug/L
RT: 11.123 min Scan# 1515
Delta R.T. -0.000 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

Tgt Ion:129 Resp: 323873

Ion	Ratio	Lower	Upper
129	100		
127	71.5	56.6	105.2

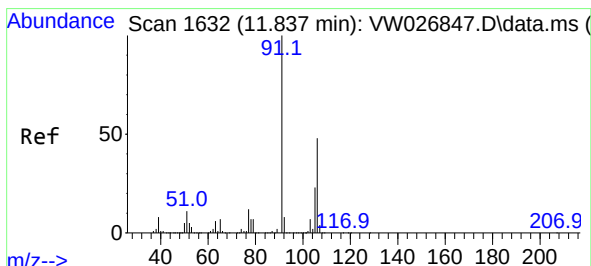
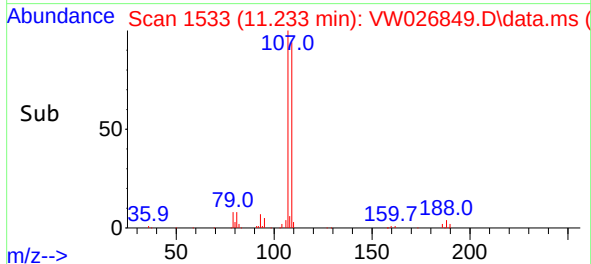
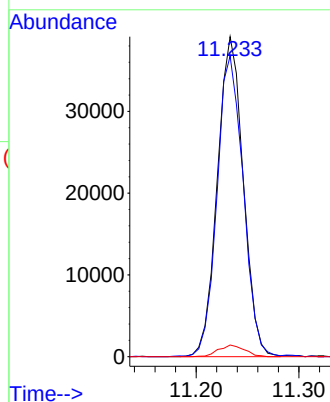
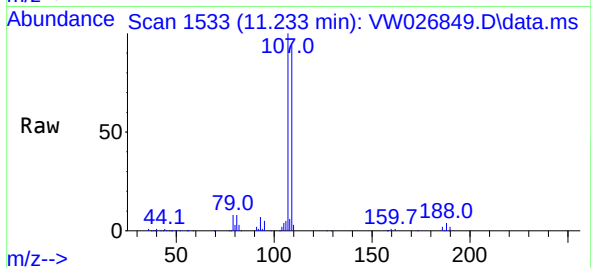




#50
1,2-Dibromoethane
Concen: 11.426 ug/L
RT: 11.233 min Scan# 1533
Delta R.T. -0.000 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

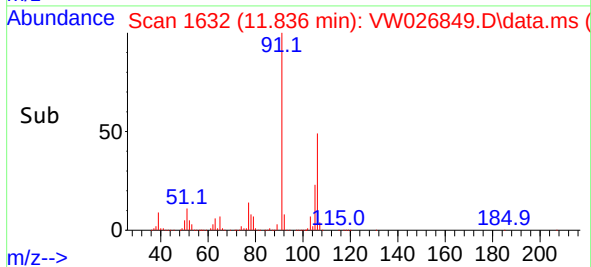
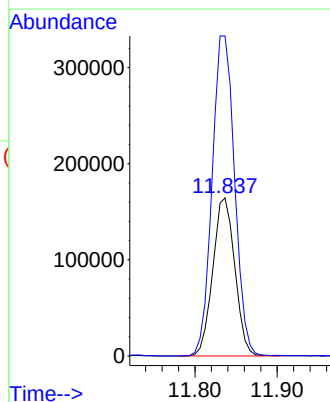
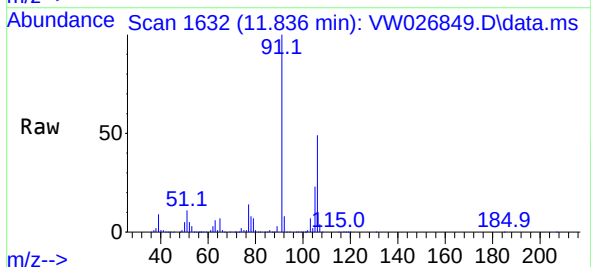
Instrument :
MSVOA_W
ClientSampleId :
DCHM8DL

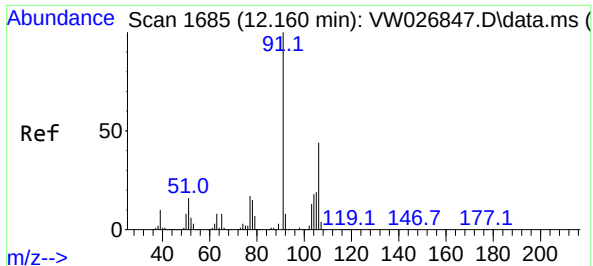
Tgt Ion:107 Resp: 68490
Ion Ratio Lower Upper
107 100
109 93.9 68.8 127.8
188 3.7 2.7 4.1



#53
m,p-Xylene
Concen: 21.343 ug/L
RT: 11.836 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW026849.D
Acq: 24 Aug 2023 12:13

Tgt Ion:106 Resp: 305875
Ion Ratio Lower Upper
106 100
91 202.3 152.9 284.1





#54

o-Xylene

Concen: 10.298 ug/L

RT: 12.166 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW026849.D

Acq: 24 Aug 2023 12:13

Instrument :

MSVOA_W

ClientSampleId :

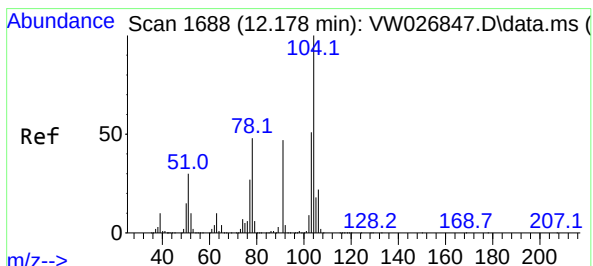
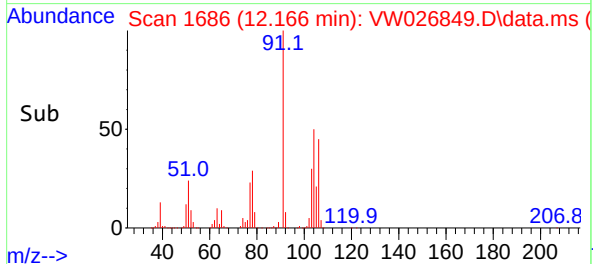
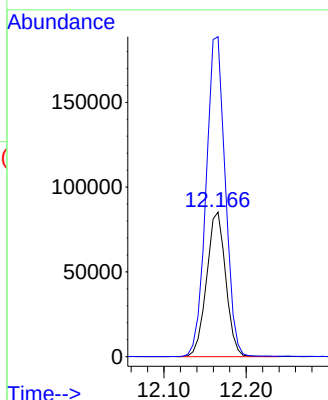
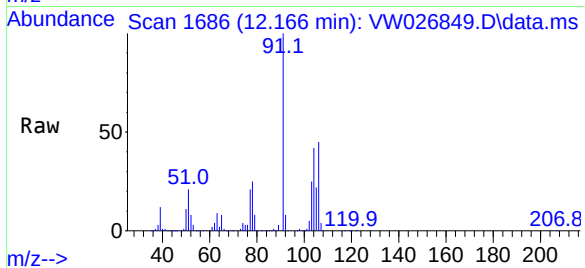
DCHM8DL

Tgt Ion:106 Resp: 137744

Ion Ratio Lower Upper

106 100

91 221.2 149.9 278.3



#55

Styrene

Concen: 10.230 ug/L

RT: 12.178 min Scan# 1688

Delta R.T. -0.000 min

Lab File: VW026849.D

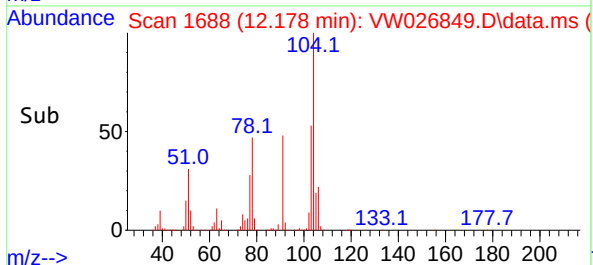
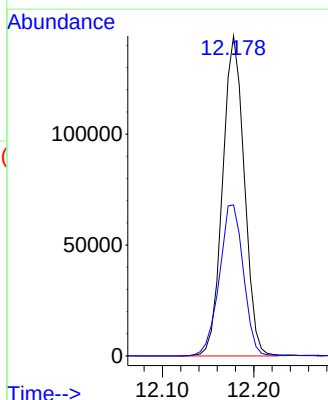
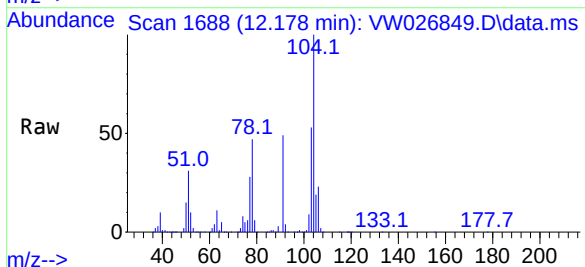
Acq: 24 Aug 2023 12:13

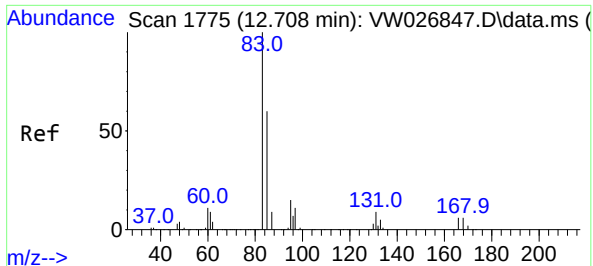
Tgt Ion:104 Resp: 237920

Ion Ratio Lower Upper

104 100

78 47.2 33.0 61.2





#57

1,1,2,2-Tetrachloroethane

Concen: 35.550 ug/L

RT: 12.714 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW026849.D

Acq: 24 Aug 2023 12:13

Instrument :

MSVOA_W

ClientSampleId :

DCHM8DL

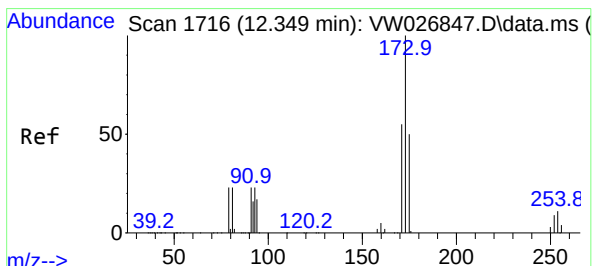
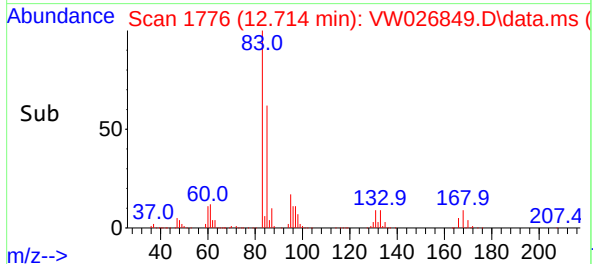
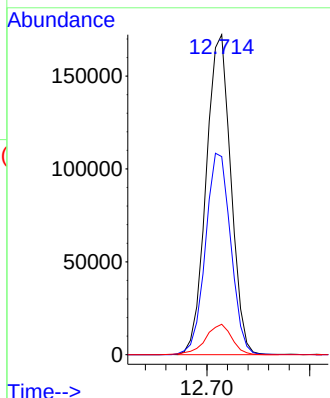
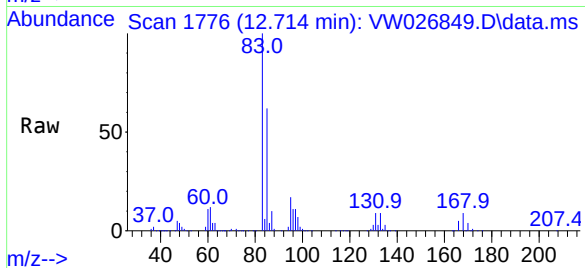
Tgt Ion: 83 Resp: 287615

Ion Ratio Lower Upper

83 100

85 61.9 44.9 83.3

131 9.5 7.4 11.0



#59

Bromoform

Concen: 26.514 ug/L

RT: 12.349 min Scan# 1716

Delta R.T. -0.000 min

Lab File: VW026849.D

Acq: 24 Aug 2023 12:13

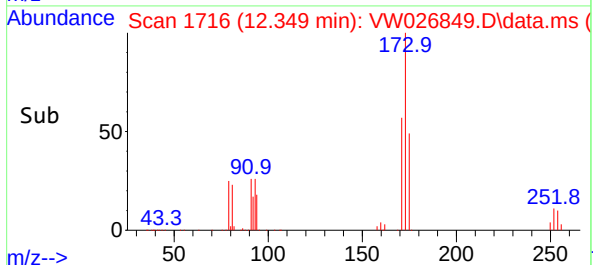
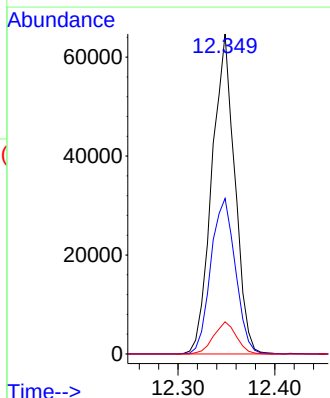
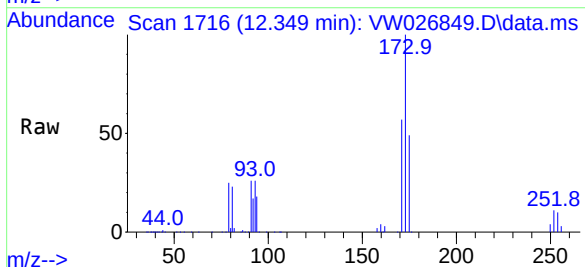
Tgt Ion: 173 Resp: 106532

Ion Ratio Lower Upper

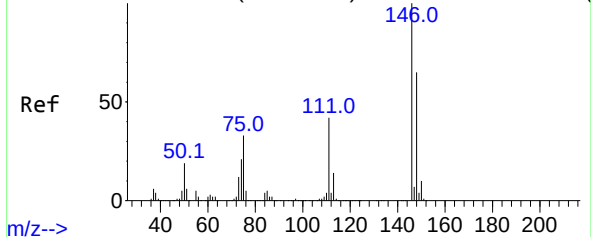
173 100

175 51.9 36.6 55.0

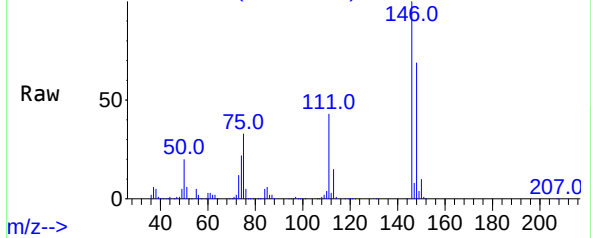
254 9.9 7.8 11.6



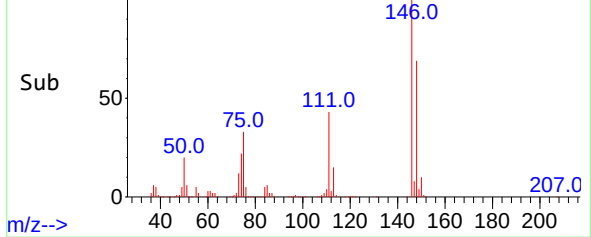
Abundance Scan 1904 (13.495 min): VW026847.D\data.ms (



m/z--> Abundance Scan 1904 (13.495 min): VW026849.D\data.ms

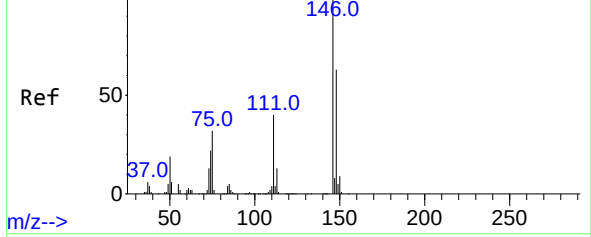


m/z--> Abundance Scan 1904 (13.495 min): VW026849.D\data.ms (

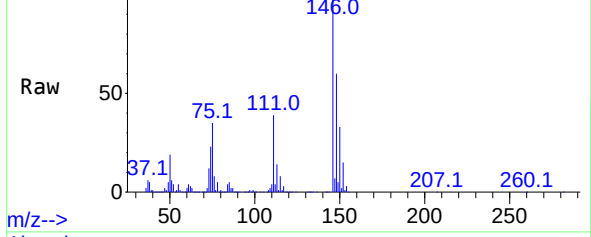


m/z-->

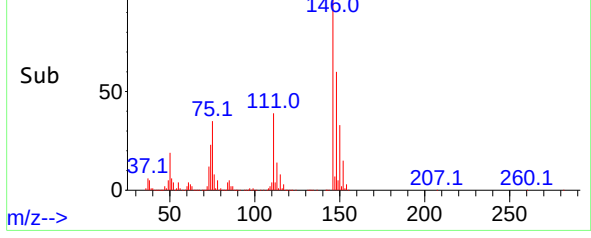
Abundance Scan 1917 (13.574 min): VW026847.D\data.ms (



m/z--> Abundance Scan 1917 (13.574 min): VW026849.D\data.ms



m/z--> Abundance Scan 1917 (13.574 min): VW026849.D\data.ms (



m/z-->

#64

1,3-Dichlorobenzene

Concen: 7.479 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VW026849.D

Acq: 24 Aug 2023 12:13

Instrument :

MSVOA_W

ClientSampleId :

DCHM8DL

Tgt Ion:146 Resp: 124039

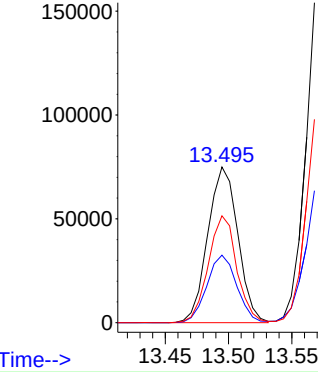
Ion Ratio Lower Upper

146 100

111 43.3 29.1 54.1

148 68.6 38.8 72.0

Abundance



Time-->

#65

1,4-Dichlorobenzene

Concen: 17.686 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. -0.000 min

Lab File: VW026849.D

Acq: 24 Aug 2023 12:13

Tgt Ion:146 Resp: 306097

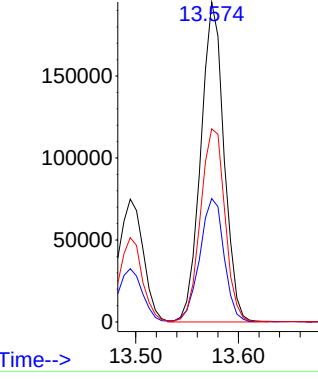
Ion Ratio Lower Upper

146 100

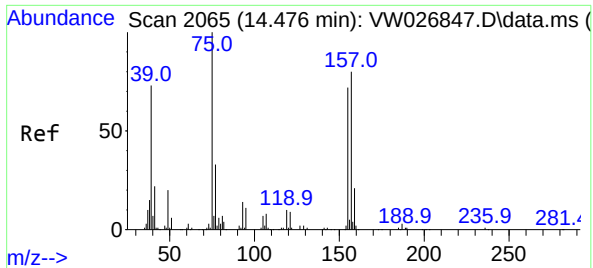
111 38.5 28.3 52.7

148 60.4 44.2 82.2

Abundance



Time-->



1,2-Dibromo-3-chloropropane
 Concen: 10.555 ug/L
 RT: 14.482 min Scan# 2066
 Delta R.T. 0.006 min
 Lab File: VW026849.D
 Acq: 24 Aug 2023 12:13

Instrument :
 MSVOA_W
 ClientSampleId :
 DCHM8DL

Tgt Ion:	75	Resp:	15831
Ion	Ratio	Lower	Upper
75	100		
155	78.8	55.0	82.6
157	92.8	77.8	116.6

