

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW030724\
 Data File : VW028121.D
 Acq On : 07 Mar 2024 12:45
 Operator : SY/MD
 Sample : P1638-01DL 2X
 Misc : 5.00g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 DCNO2DL

Quant Time: Mar 08 00:17:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM022924SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Mar 08 00:16:11 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.837	114	255137	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	235027	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	117084	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.369	65	62781	20.614	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	82.440%
7) Chloroethane-d5	2.899	69	51157	21.683	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.720%
11) 1,1-Dichloroethene-d2	4.027	65	26304	21.144	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	84.560%
21) 2-Butanone-d5	7.075	46	30852	71.013	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	142.020%#
24) Chloroform-d	7.648	84	125785	23.277	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.120%
26) 1,2-Dichloroethane-d4	8.307	65	66702	26.522	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	106.080%
32) Benzene-d6	8.276	84	256381	23.368	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	93.480%
36) 1,2-Dichloropropane-d6	9.270	67	67738	23.896	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.600%
41) Toluene-d8	10.319	98	243444	23.545	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.160%
43) trans-1,3-Dichloroprop...	10.575	79	32858	26.451	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	105.800%
47) 2-Hexanone-d5	10.922	63	29793	74.616	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	149.240%#
56) 1,1,2,2-Tetrachloroeth...	12.690	84	66963	29.930	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	119.720%
66) 1,2-Dichlorobenzene-d4	13.848	152	89865	25.808	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	103.240%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.051	96	132045	41.633	ug/L	90
13) Acetone	4.118	43	53366	87.878	ug/L	100
16) Methylene chloride	4.923	84	72645	20.699	ug/L	96
17) trans-1,2-Dichloroethene	5.429	96	39086	11.533	ug/L	96
18) Methyl tert-butyl Ether	5.429	73	41926	10.102	ug/L #	87
20) cis-1,2-Dichloroethene	7.173	96	50833	14.253	ug/L	96
22) 2-Butanone	7.167	43	45007	66.361	ug/L	97
27) 1,2-Dichloroethane	8.398	62	64417	18.100	ug/L	99
31) Carbon tetrachloride	8.069	117	168166	34.318	ug/L	100
33) Benzene	8.325	78	306441	24.135	ug/L	100
34) Trichloroethene	9.087	95	156934	42.183	ug/L	96
37) 1,2-Dichloropropane	9.367	63	66975	22.651	ug/L	100
38) Bromodichloromethane	9.642	83	112979	26.453	ug/L	99
39) cis-1,3-Dichloropropene	10.069	75	130462	26.830	ug/L	99
40) 4-Methyl-2-pentanone	10.209	43	144566	123.096	ug/L	99
44) trans-1,3-Dichloropropene	10.605	75	71853	18.190	ug/L	97
45) 1,1,2-Trichloroethane	10.788	97	54965	22.165	ug/L	96
46) Tetrachloroethene	10.861	164	70284	22.541	ug/L #	78
48) 2-Hexanone	10.965	43	59580	62.742	ug/L	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW030724\
 Data File : VW028121.D
 Acq On : 07 Mar 2024 12:45
 Operator : SY/MD
 Sample : P1638-01DL 2X
 Misc : 5.00g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 1 Sample Multiplier: 1

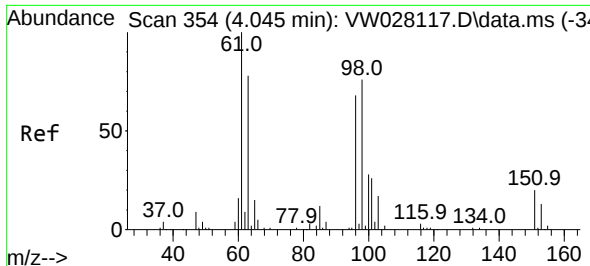
Instrument :
 MSVOA_W
 ClientSampleId :
 DCNO2DL

Quant Time: Mar 08 00:17:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM022924SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Mar 08 00:16:11 2024
 Response via : Initial Calibration

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

49) Dibromochloromethane	11.123	129	44339	15.381	ug/L	91
50) 1,2-Dibromoethane	11.233	107	22391	9.375	ug/L #	94
52) Ethylbenzene	11.727	91	631318	38.488	ug/L	94
53) m,p-Xylene	11.843	106	205956	32.362	ug/L	99
54) o-Xylene	12.166	106	26125	4.338	ug/L	97
57) 1,1,2,2-Tetrachloroethane	12.708	83	28154	10.529	ug/L	96
59) Bromoform	12.349	173	42392	25.540	ug/L	95
61) 1,2,3-Trichloropropane	12.763	75	73478	40.825	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	243208	32.762	ug/L #	81
65) 1,4-Dichlorobenzene	13.574	146	101201	13.503	ug/L	97
67) 1,2-Dichlorobenzene	13.867	146	264845	39.606	ug/L	97
68) 1,2-Dibromo-3-chloropr...	14.482	75	6279	16.610	ug/L	92

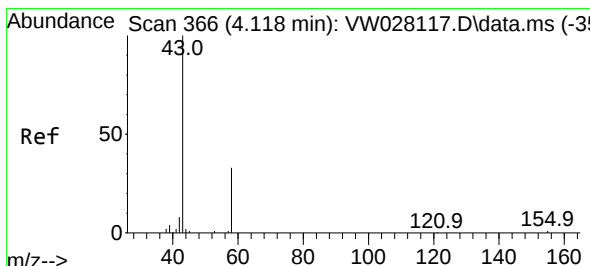
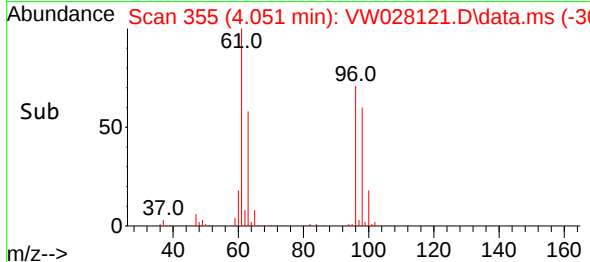
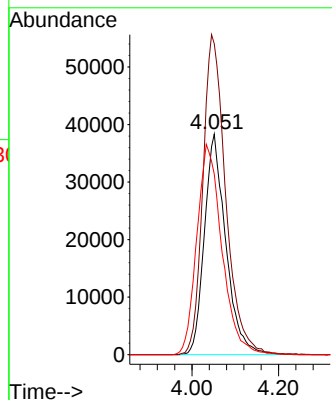
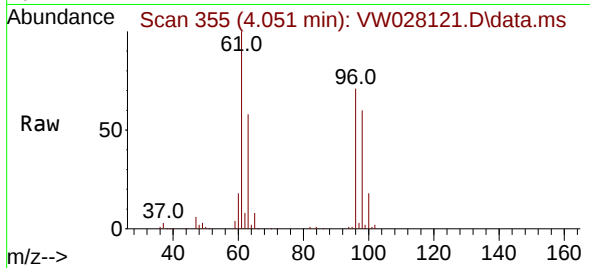
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#12
1,1-Dichloroethene
Concen: 41.633 ug/L
RT: 4.051 min Scan# 354
Delta R.T. 0.006 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

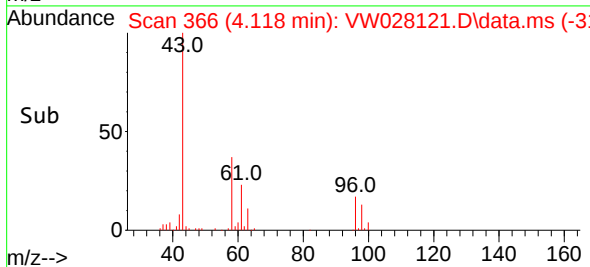
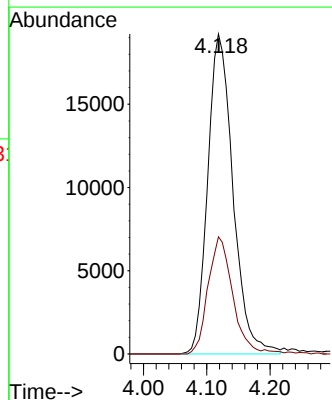
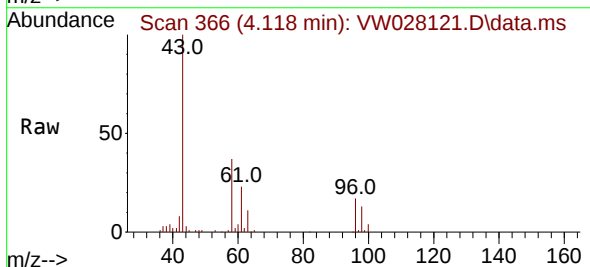
Instrument :
MSVOA_W
ClientSampleId :
DCNO2DL

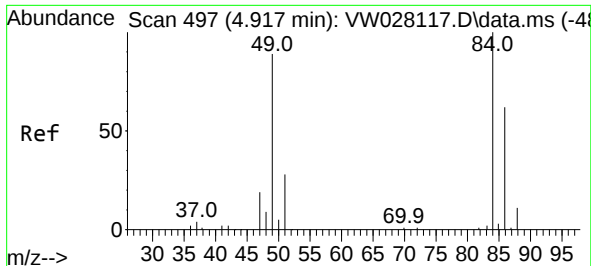
Tgt Ion: 96 Resp: 132045
Ion Ratio Lower Upper
96 100
61 140.9 100.5 186.7
63 81.8 72.9 135.5



#13
Acetone
Concen: 87.878 ug/L
RT: 4.118 min Scan# 366
Delta R.T. -0.000 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

Tgt Ion: 43 Resp: 53366
Ion Ratio Lower Upper
43 100
58 35.1 0.0 70.0

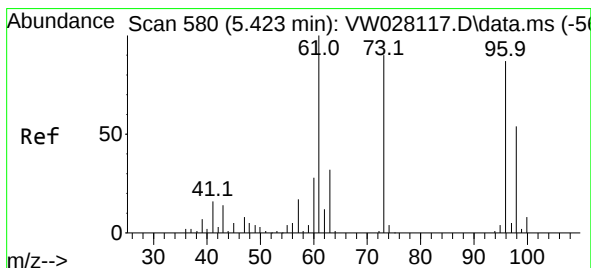
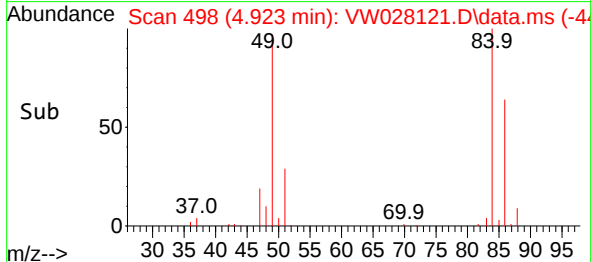
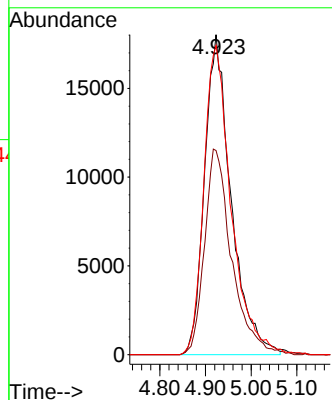
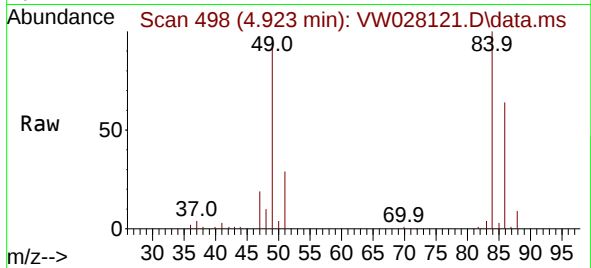




#16
Methylene chloride
Concen: 20.699 ug/L
RT: 4.923 min Scan# 497
Delta R.T. 0.006 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

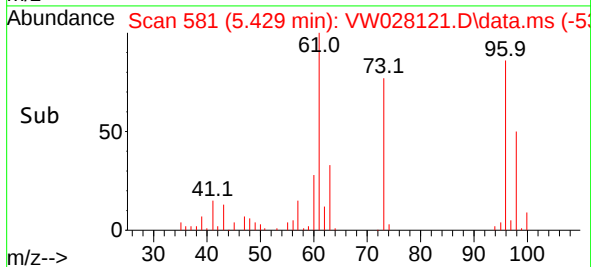
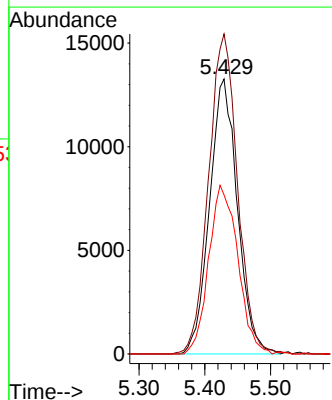
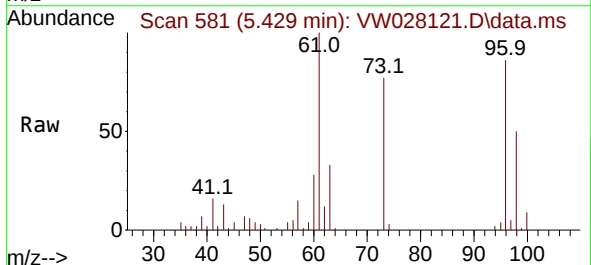
Instrument :
MSVOA_W
ClientSampleId :
DCNO2DL

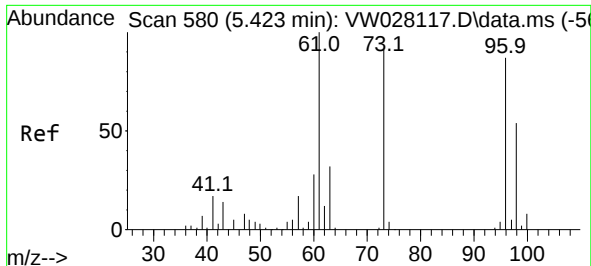
Tgt Ion: 84 Resp: 72645
Ion Ratio Lower Upper
84 100
86 63.8 41.2 76.6
49 96.6 66.5 123.5



#17
trans-1,2-Dichloroethene
Concen: 11.533 ug/L
RT: 5.429 min Scan# 581
Delta R.T. 0.006 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

Tgt Ion: 96 Resp: 39086
Ion Ratio Lower Upper
96 100
61 116.4 82.6 153.4
98 57.9 44.7 83.1

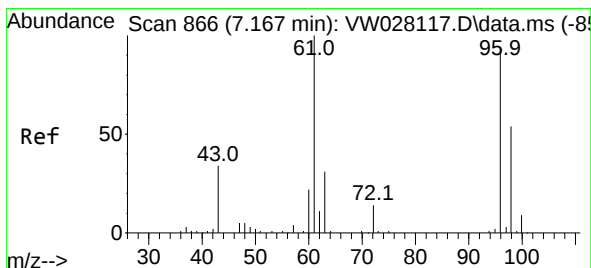
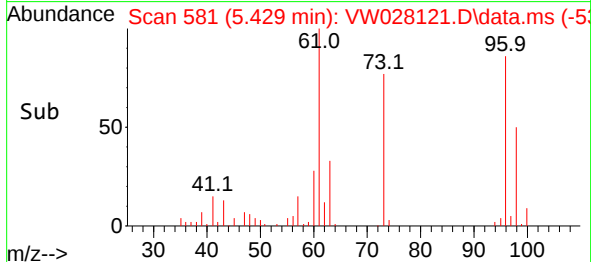
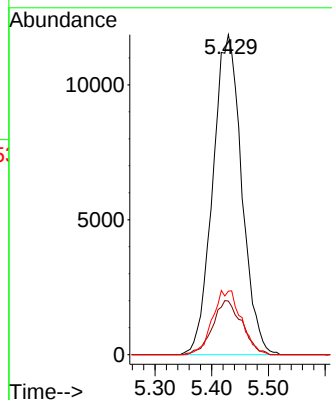
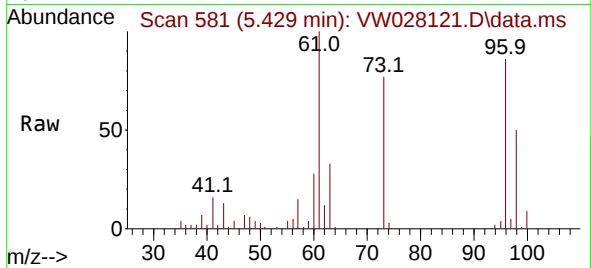




#18
Methyl tert-butyl Ether
Concen: 10.102 ug/L
RT: 5.429 min Scan# 580
Delta R.T. 0.006 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

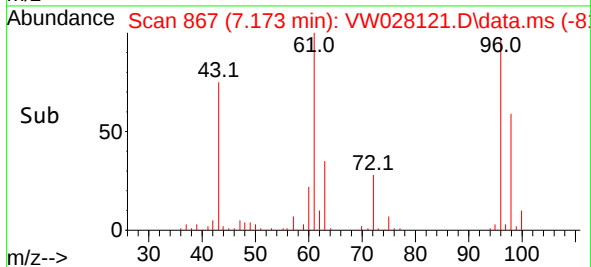
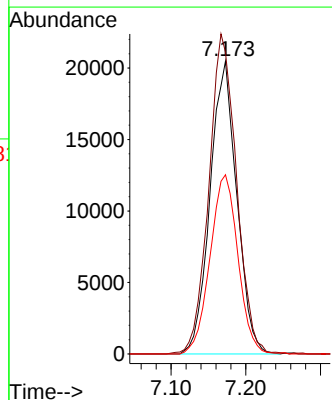
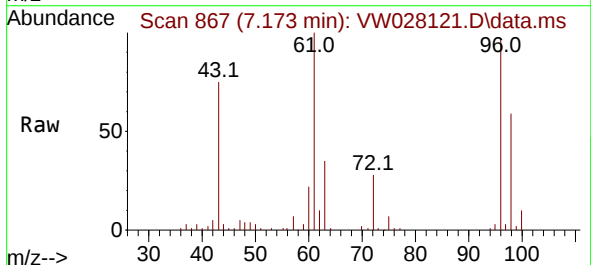
Instrument :
MSVOA_W
ClientSampleId :
DCNO2DL

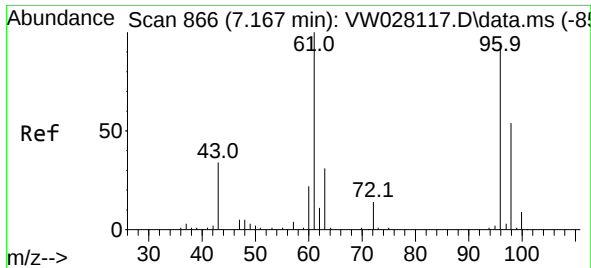
Tgt Ion: 73 Resp: 41926
Ion Ratio Lower Upper
73 100
43 17.2 13.3 19.9
57 9.6 15.9 23.9#



#20
cis-1,2-Dichloroethene
Concen: 14.253 ug/L
RT: 7.173 min Scan# 867
Delta R.T. 0.006 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

Tgt Ion: 96 Resp: 50833
Ion Ratio Lower Upper
96 100
61 103.1 75.5 140.1
98 61.2 43.8 81.4

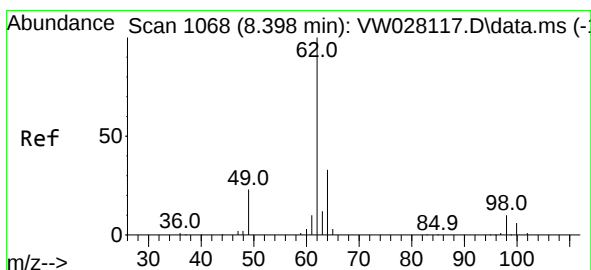
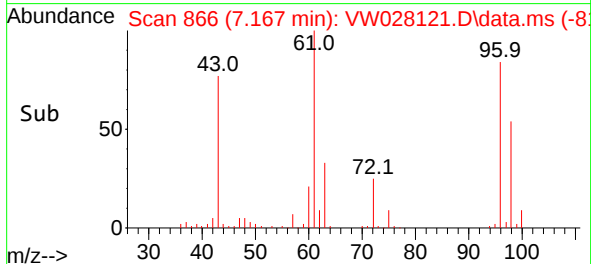
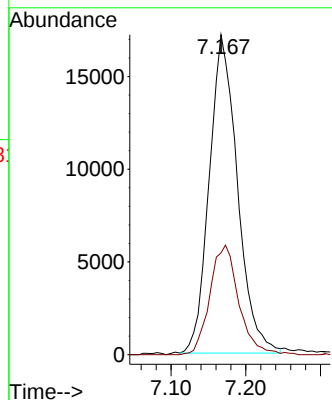
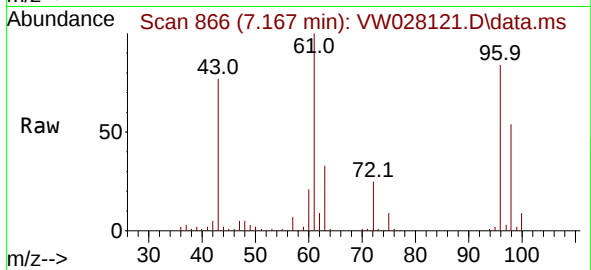




#22
2-Butanone
Concen: 66.361 ug/L
RT: 7.167 min Scan# 866
Delta R.T. -0.000 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

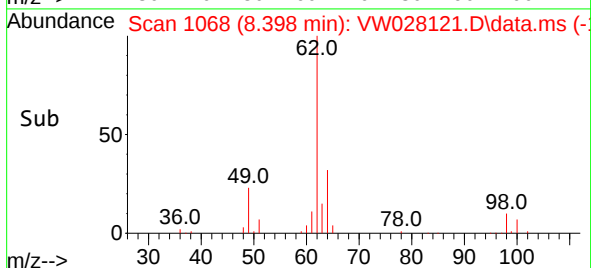
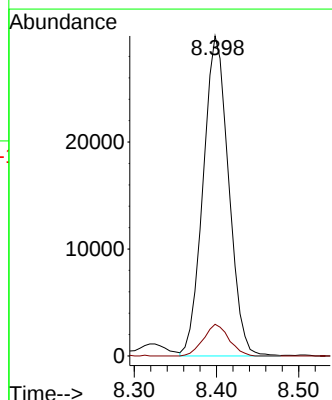
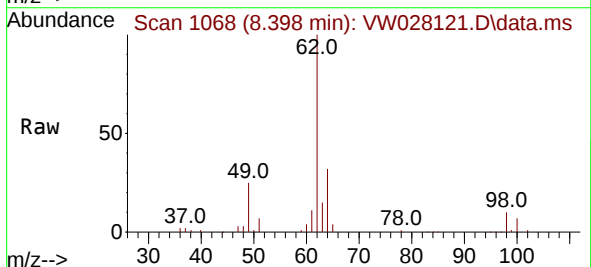
Instrument :
MSVOA_W
ClientSampleId :
DCNO2DL

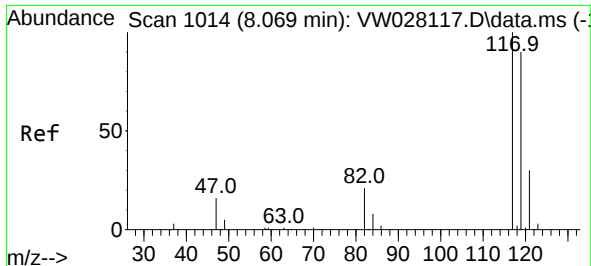
Tgt Ion: 43 Resp: 45007
Ion Ratio Lower Upper
43 100
72 35.0 18.4 55.0



#27
1,2-Dichloroethane
Concen: 18.100 ug/L
RT: 8.398 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

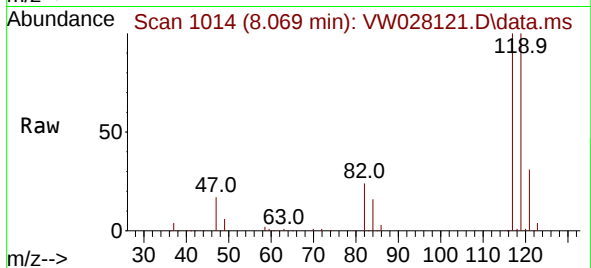
Tgt Ion: 62 Resp: 64417
Ion Ratio Lower Upper
62 100
98 9.9 8.2 12.4



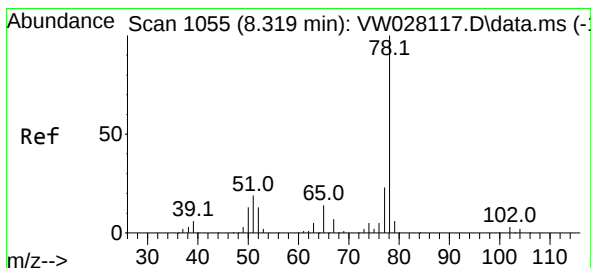
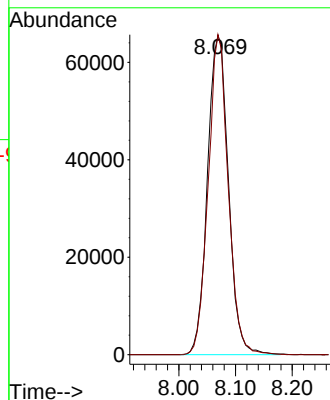
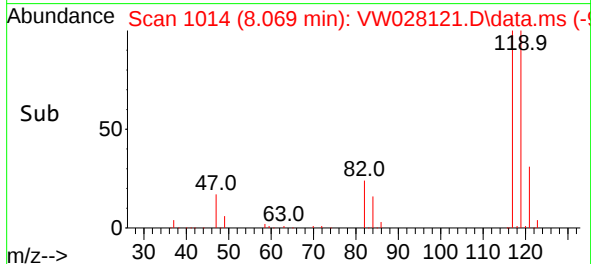


#31
Carbon tetrachloride
Concen: 34.318 ug/L
RT: 8.069 min Scan# 1014
Delta R.T. -0.000 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

Instrument :
MSVOA_W
ClientSampleId :
DCNO2DL

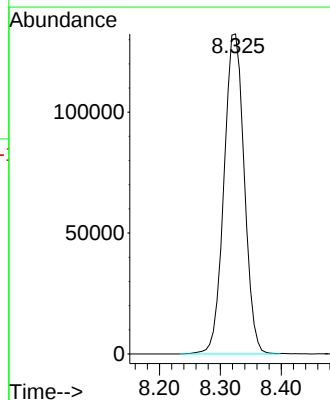
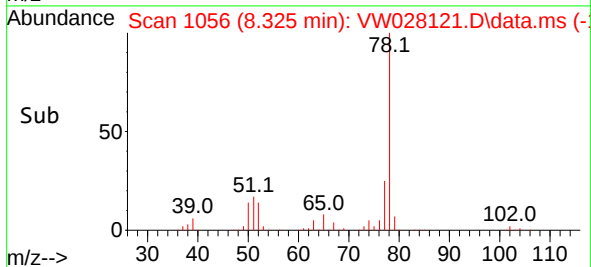
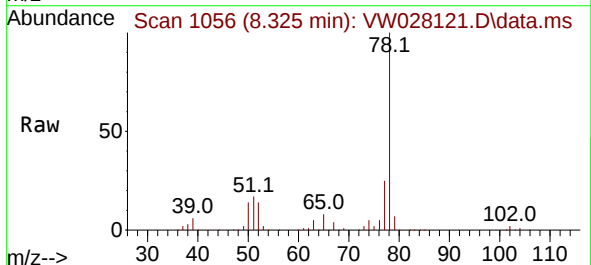


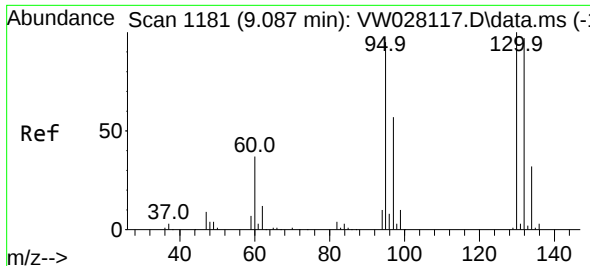
Tgt Ion:117 Resp: 168166
Ion Ratio Lower Upper
117 100
119 95.9 76.8 115.2



#33
Benzene
Concen: 24.135 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

Tgt Ion: 78 Resp: 306441

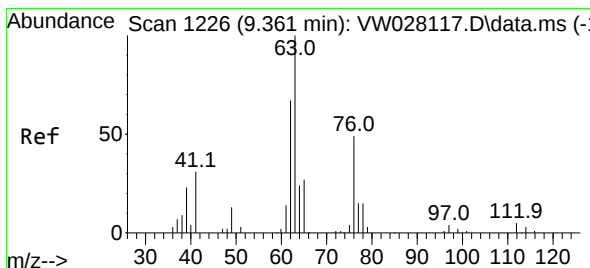
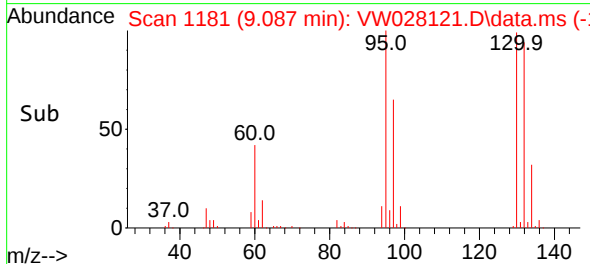
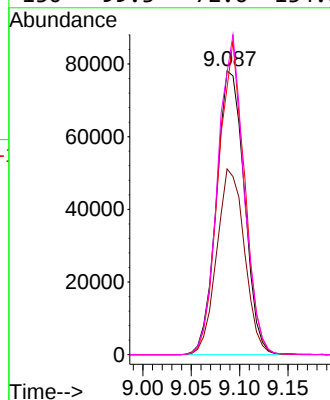
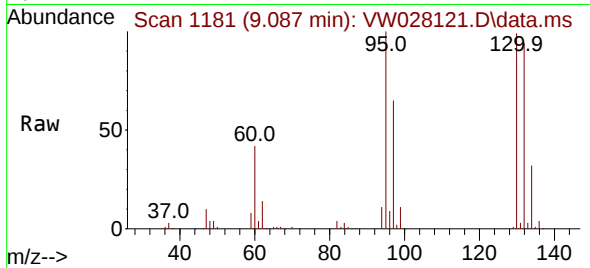




#34
Trichloroethene
Concen: 42.183 ug/L
RT: 9.087 min Scan# 1181
Delta R.T. -0.000 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

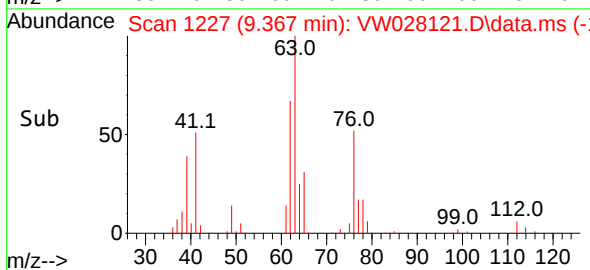
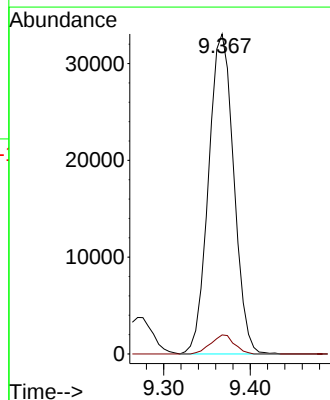
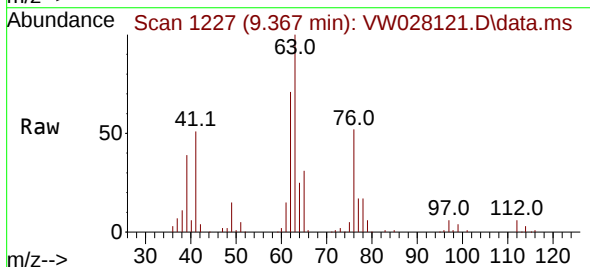
Instrument :
MSVOA_W
ClientSampleId :
DCNO2DL

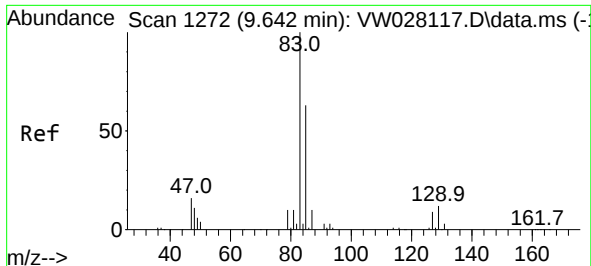
Tgt Ion: 95 Resp: 156934
Ion Ratio Lower Upper
95 100
97 65.4 44.5 82.7
132 94.2 68.3 126.9
130 99.3 72.6 134.8



#37
1,2-Dichloropropane
Concen: 22.651 ug/L
RT: 9.367 min Scan# 1227
Delta R.T. 0.006 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

Tgt Ion: 63 Resp: 66975
Ion Ratio Lower Upper
63 100
112 5.5 4.4 6.6

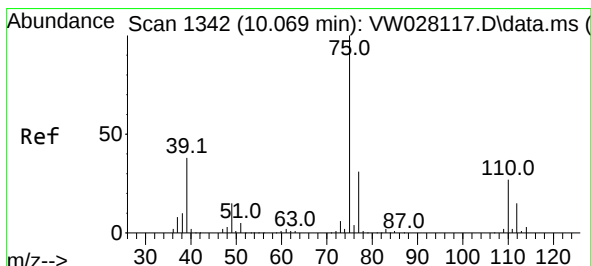
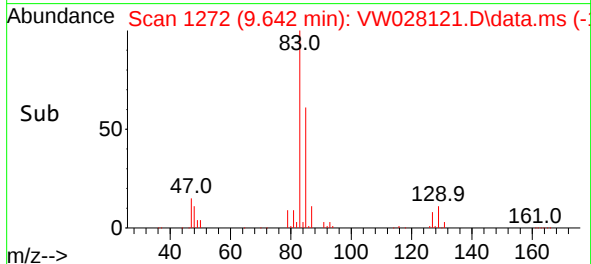
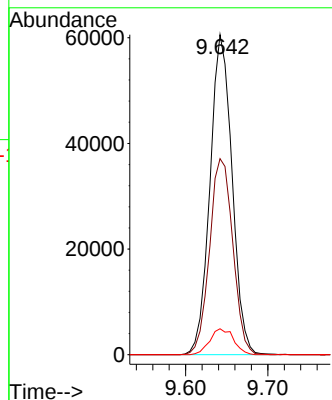
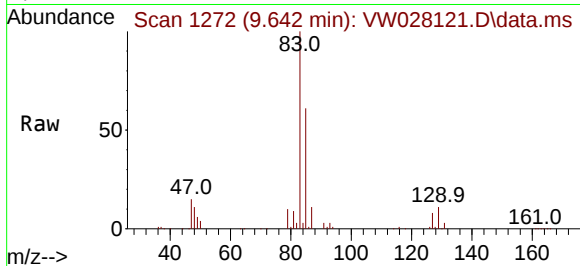




#38
Bromodichloromethane
Concen: 26.453 ug/L
RT: 9.642 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

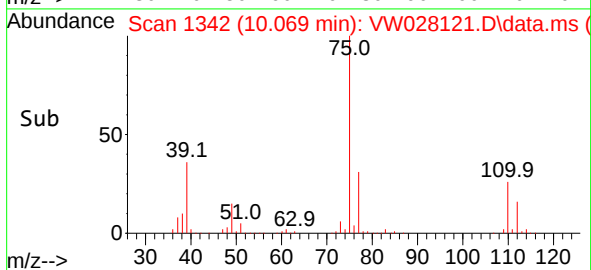
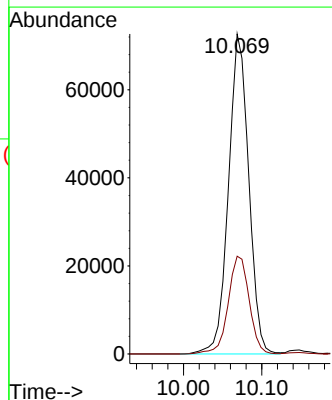
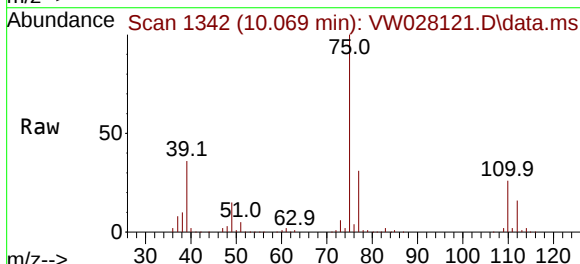
Instrument :
MSVOA_W
ClientSampleId :
DCNO2DL

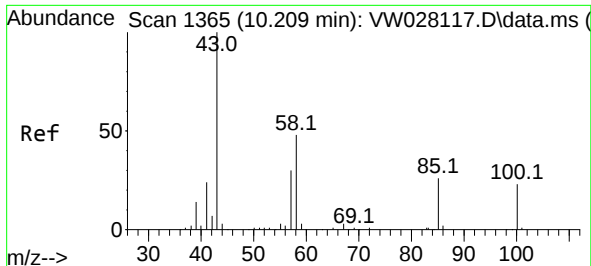
Tgt Ion: 83 Resp: 112979
Ion Ratio Lower Upper
83 100
85 61.2 43.3 80.5
127 8.1 6.9 10.3



#39
cis-1,3-Dichloropropene
Concen: 26.830 ug/L
RT: 10.069 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

Tgt Ion: 75 Resp: 130462
Ion Ratio Lower Upper
75 100
77 30.5 21.7 40.3





#40

4-Methyl-2-pentanone

Concen: 123.096 ug/L

RT: 10.209 min Scan# 11

Delta R.T. -0.000 min

Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

Instrument :

MSVOA_W

ClientSampleId :

DCNO2DL

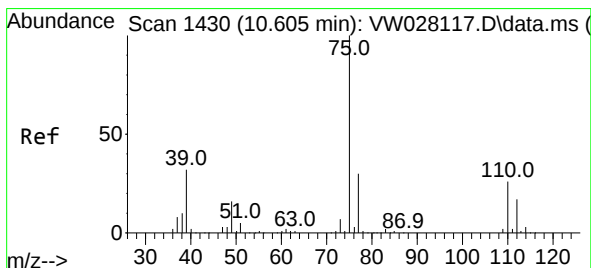
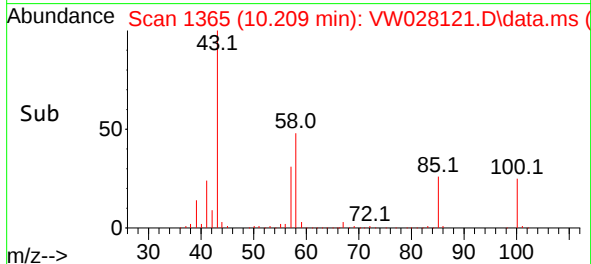
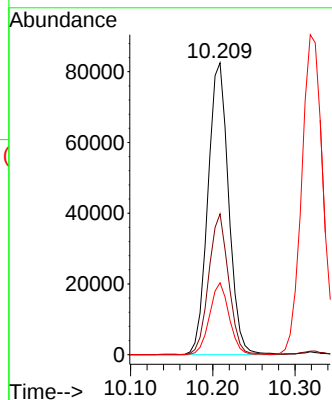
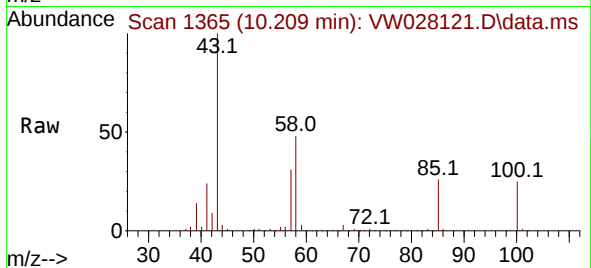
Tgt Ion: 43 Resp: 144566

Ion Ratio Lower Upper

43 100

58 46.3 37.8 56.8

100 23.2 18.2 27.4



#44

trans-1,3-Dichloropropene

Concen: 18.190 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. -0.000 min

Lab File: VW028121.D

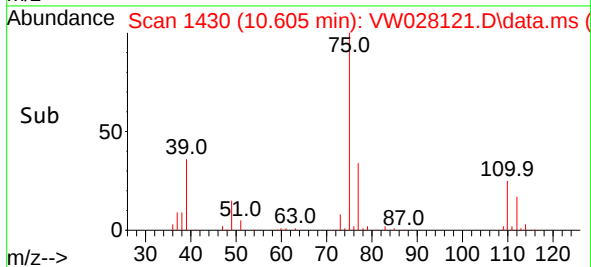
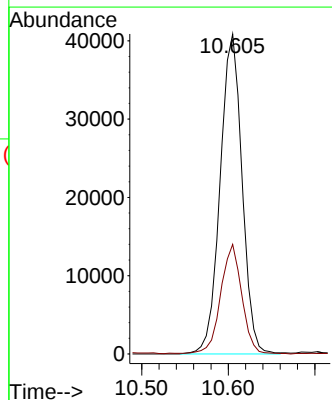
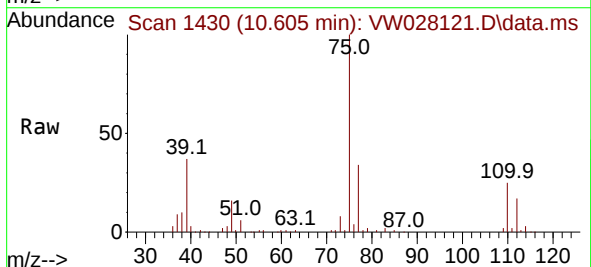
Acq: 07 Mar 2024 12:45

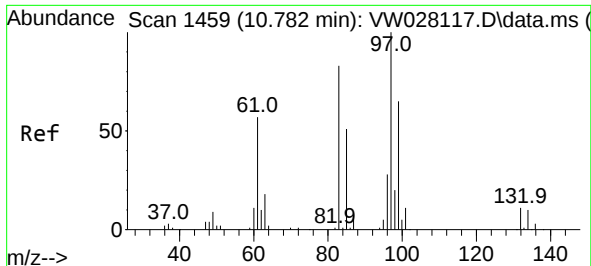
Tgt Ion: 75 Resp: 71853

Ion Ratio Lower Upper

75 100

77 34.3 22.9 42.5

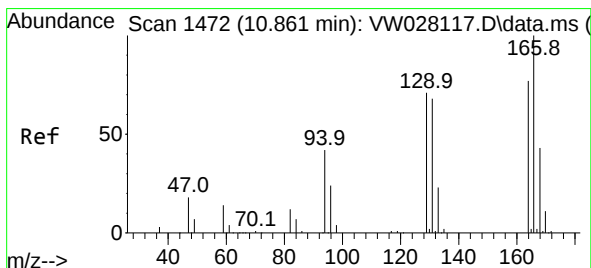
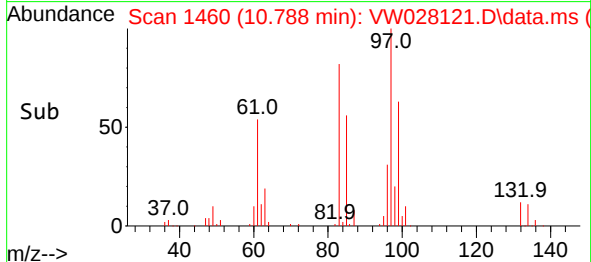
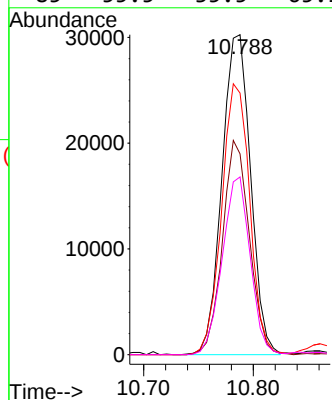
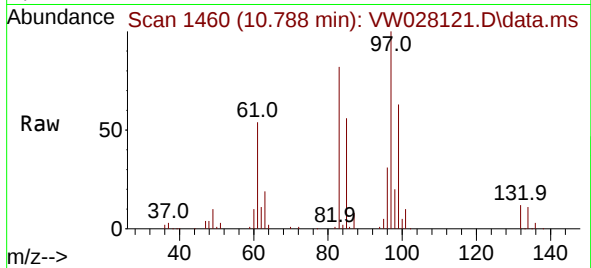




#45
1,1,2-Trichloroethane
Concen: 22.165 ug/L
RT: 10.788 min Scan# 1459
Delta R.T. 0.006 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

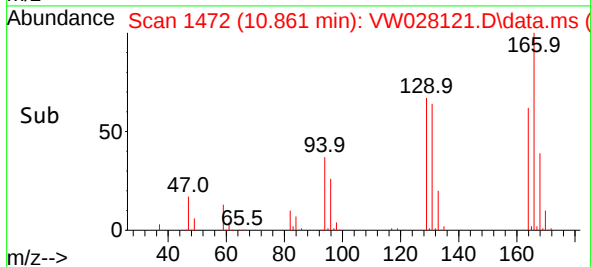
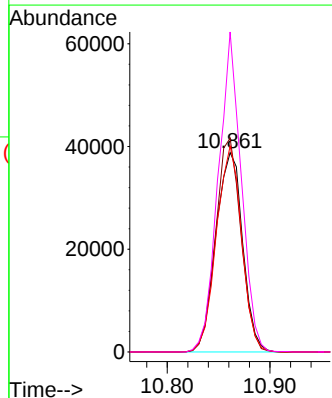
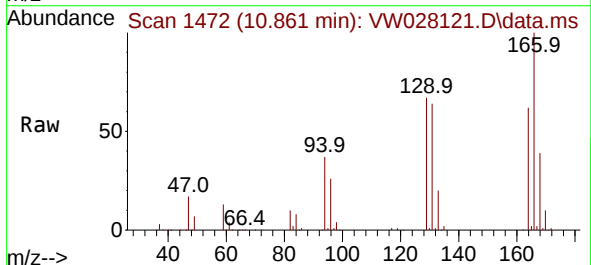
Instrument :
MSVOA_W
ClientSampleId :
DCNO2DL

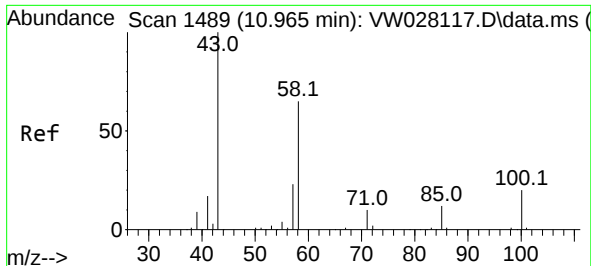
Tgt Ion: 97	Resp: 54965
Ion Ratio	Lower Upper
97 100	
99 62.8	41.9 77.7
83 81.7	56.1 104.1
85 55.5	35.5 65.9



#46
Tetrachloroethene
Concen: 22.541 ug/L
RT: 10.861 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

Tgt Ion: 164	Resp: 70284
Ion Ratio	Lower Upper
164 100	
129 107.2	65.2 121.0
131 103.3	66.2 123.0
166 160.5	82.8 153.8#

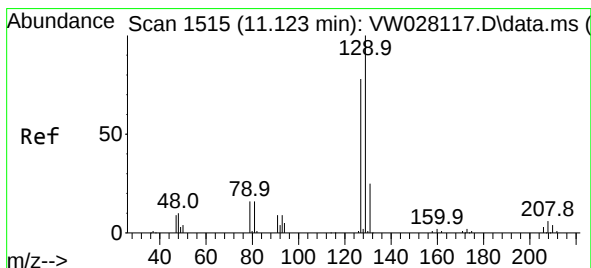
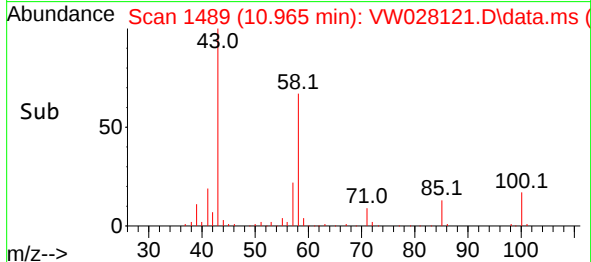
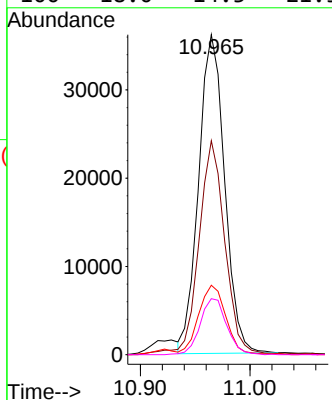
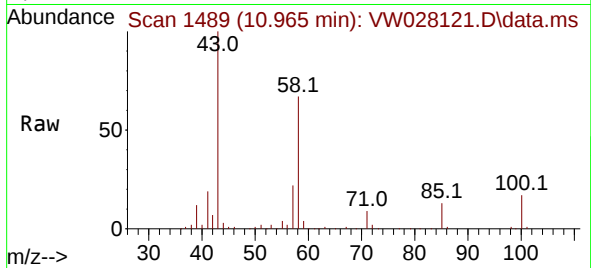




#48
2-Hexanone
Concen: 62.742 ug/L
RT: 10.965 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

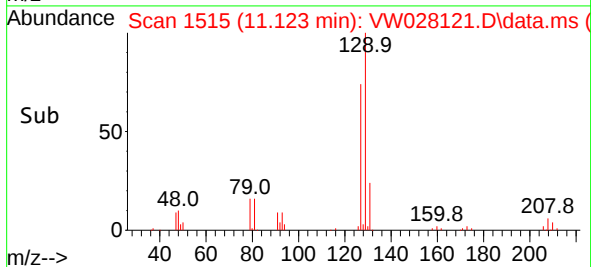
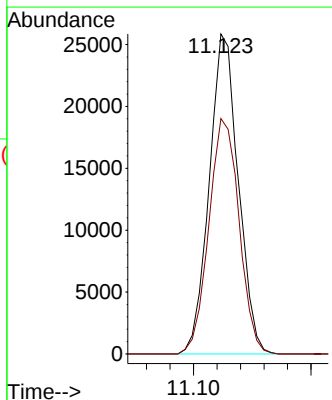
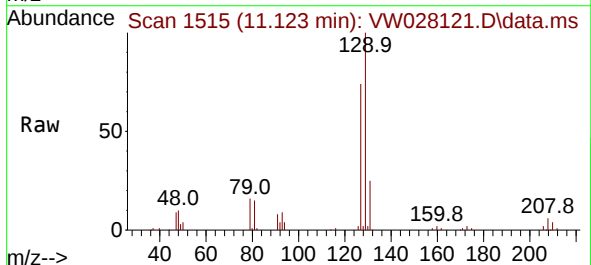
Instrument :
MSVOA_W
ClientSampleId :
DCNO2DL

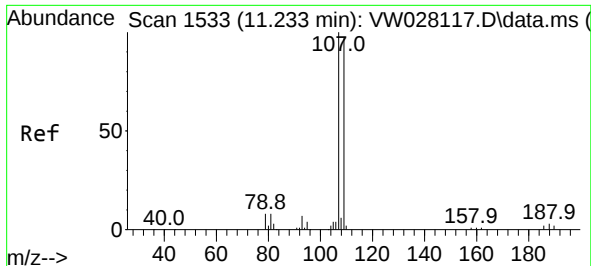
Tgt Ion:	43	Resp:	59580
Ion	Ratio	Lower	Upper
43	100		
58	65.3	51.8	77.8
57	22.9	18.2	27.4
100	18.0	14.3	21.5



#49
Dibromochloromethane
Concen: 15.381 ug/L
RT: 11.123 min Scan# 1515
Delta R.T. -0.000 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

Tgt Ion:	129	Resp:	44339
Ion	Ratio	Lower	Upper
129	100		
127	73.5	57.1	106.1





#50

1,2-Dibromoethane

Concen: 9.375 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. -0.000 min

Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

Instrument :

MSVOA_W

ClientSampleId :

DCNO2DL

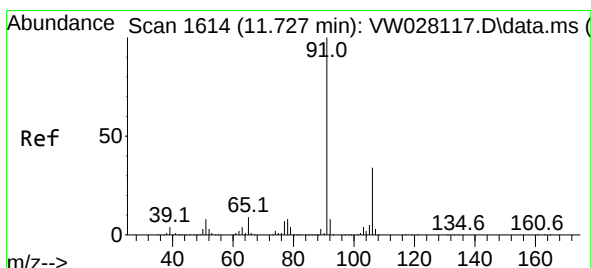
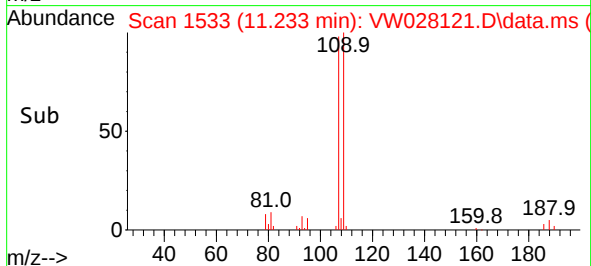
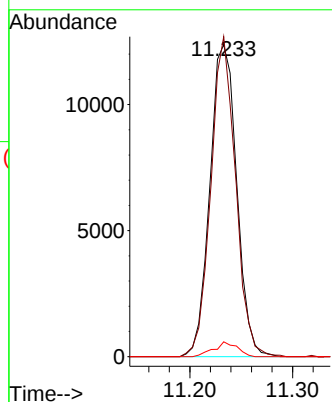
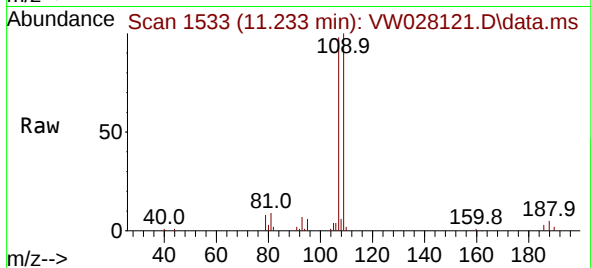
Tgt Ion:107 Resp: 22391

Ion Ratio Lower Upper

107 100

109 102.6 67.5 125.3

188 4.8 3.1 4.7#



#52

Ethylbenzene

Concen: 38.488 ug/L

RT: 11.727 min Scan# 1614

Delta R.T. -0.000 min

Lab File: VW028121.D

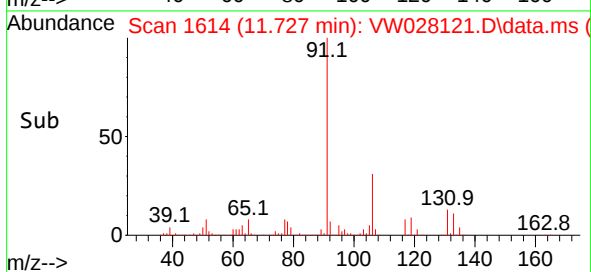
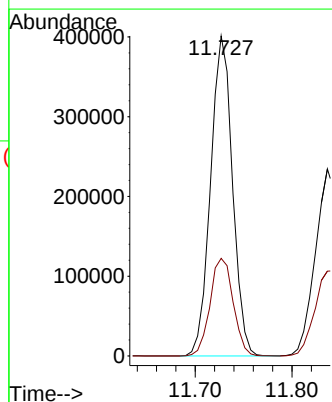
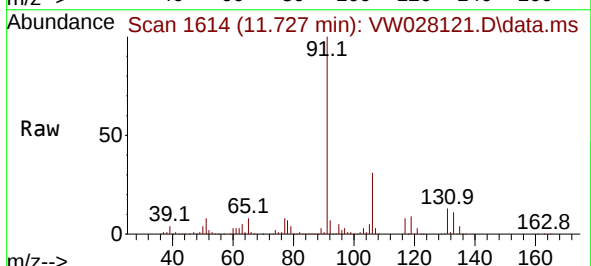
Acq: 07 Mar 2024 12:45

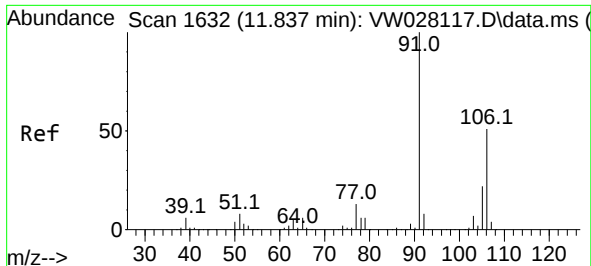
Tgt Ion: 91 Resp: 631318

Ion Ratio Lower Upper

91 100

106 30.5 23.8 44.2

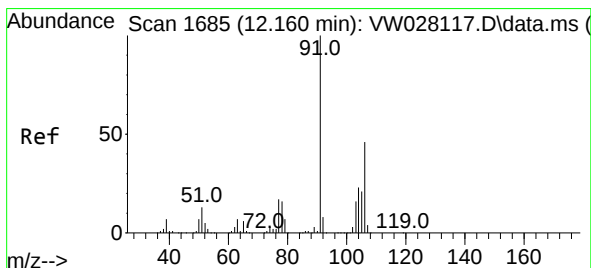
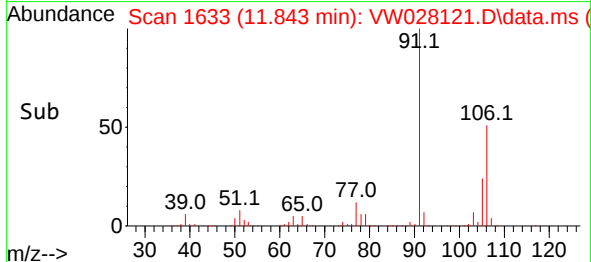
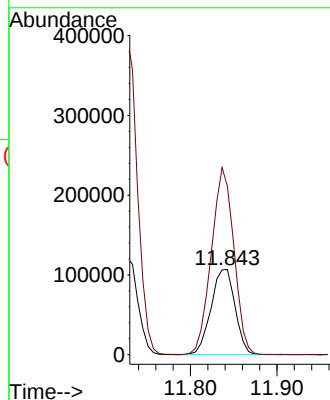
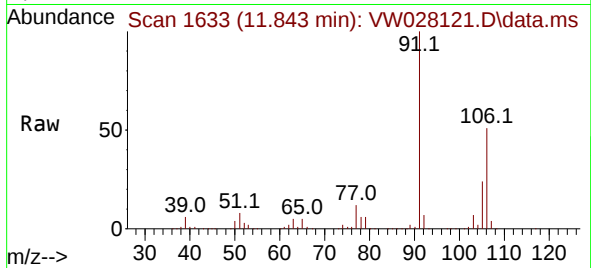




#53
m,p-Xylene
Concen: 32.362 ug/L
RT: 11.843 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

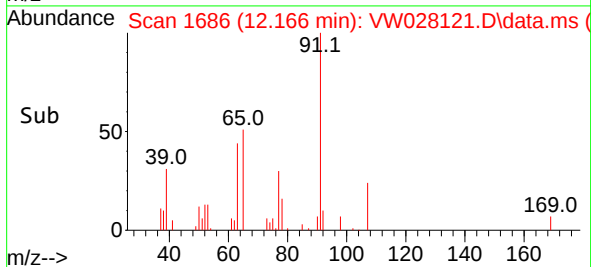
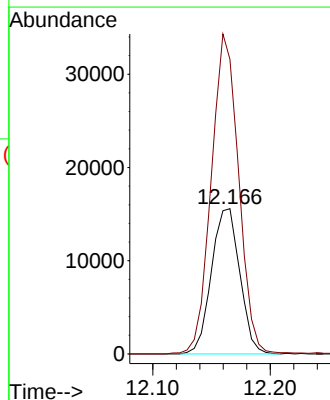
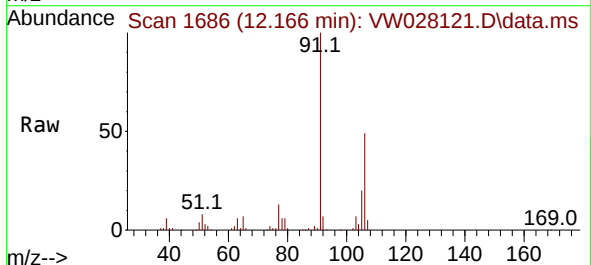
Instrument :
MSVOA_W
ClientSampleId :
DCNO2DL

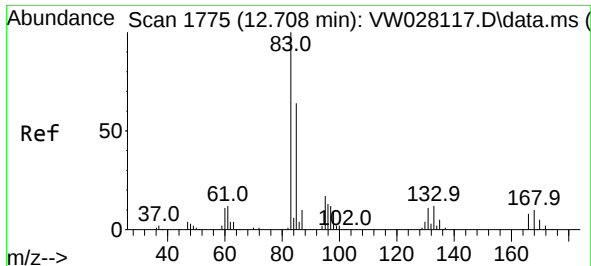
Tgt Ion:106 Resp: 205956
Ion Ratio Lower Upper
106 100
91 197.9 139.7 259.4



#54
o-Xylene
Concen: 4.338 ug/L
RT: 12.166 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

Tgt Ion:106 Resp: 26125
Ion Ratio Lower Upper
106 100
91 202.9 145.2 269.6





#57

1,1,2,2-Tetrachloroethane

Concen: 10.529 ug/L

RT: 12.708 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

Instrument :

MSVOA_W

ClientSampleId :

DCNO2DL

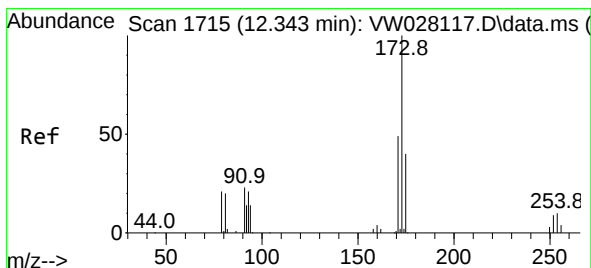
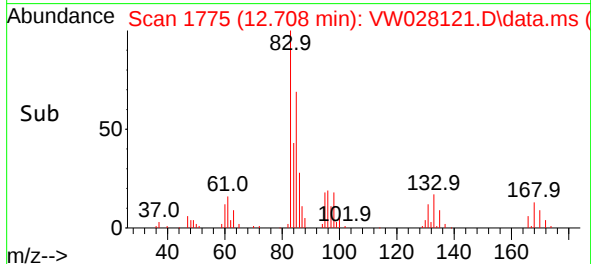
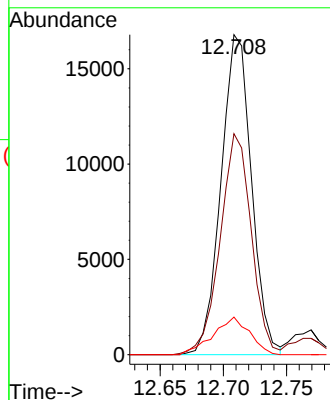
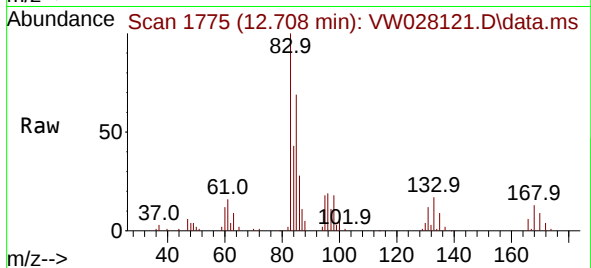
Tgt Ion: 83 Resp: 28154

Ion Ratio Lower Upper

83 100

85 69.0 45.7 84.9

131 11.8 9.7 14.5



#59

Bromoform

Concen: 25.540 ug/L

RT: 12.349 min Scan# 1716

Delta R.T. 0.006 min

Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

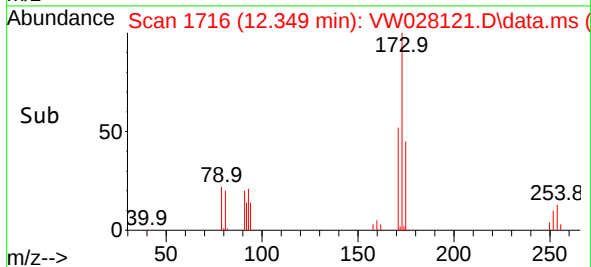
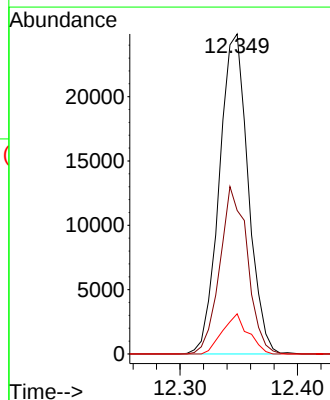
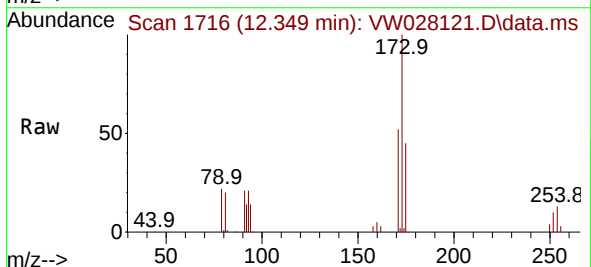
Tgt Ion:173 Resp: 42392

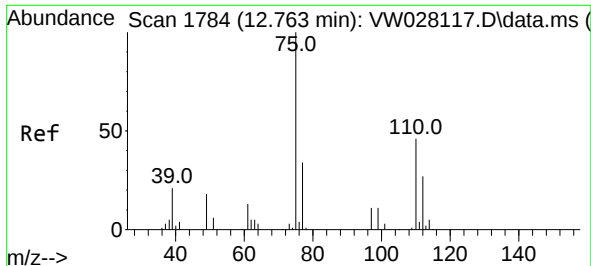
Ion Ratio Lower Upper

173 100

175 50.1 37.2 55.8

254 11.2 8.5 12.7

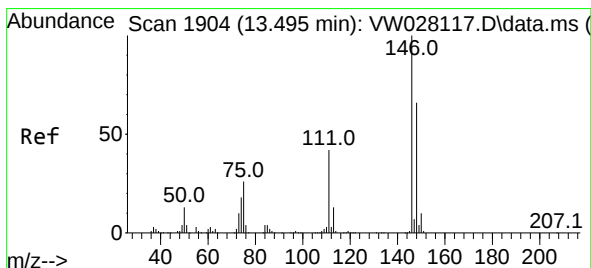
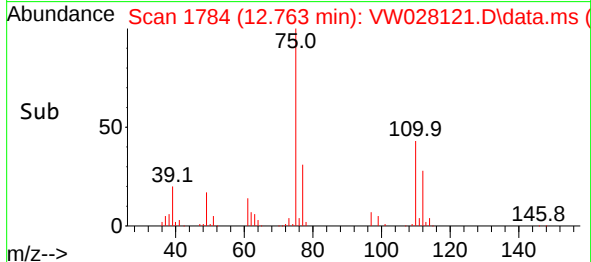
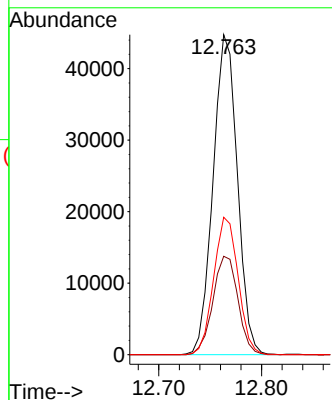
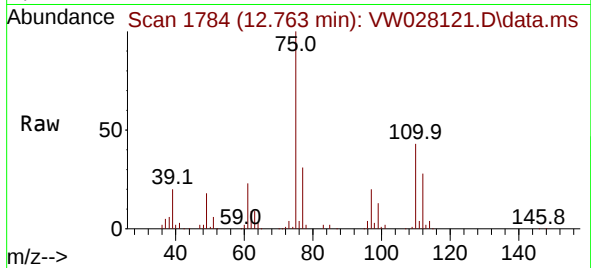




#61
1,2,3-Trichloropropane
Concen: 40.825 ug/L
RT: 12.763 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

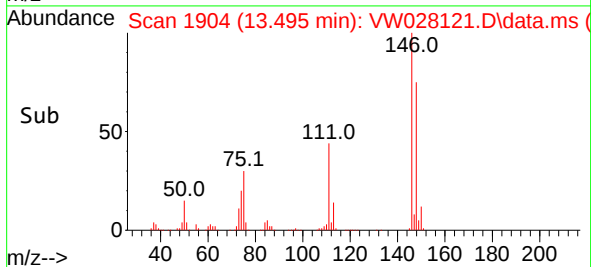
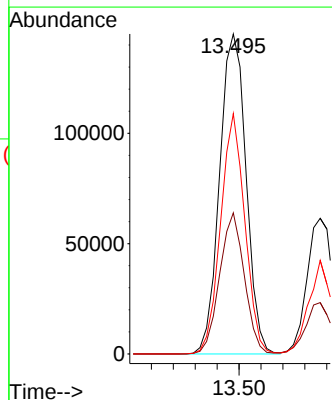
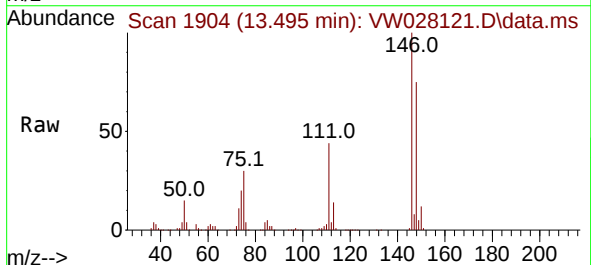
Instrument :
MSVOA_W
ClientSampleId :
DCNO2DL

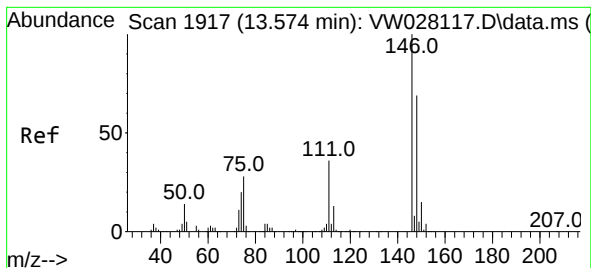
Tgt Ion: 75 Resp: 73478
Ion Ratio Lower Upper
75 100
77 31.8 25.9 38.9
110 43.3 34.1 51.1



#64
1,3-Dichlorobenzene
Concen: 32.762 ug/L
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

Tgt Ion: 146 Resp: 243208
Ion Ratio Lower Upper
146 100
111 44.1 27.9 51.9
148 75.1 38.7 71.9#

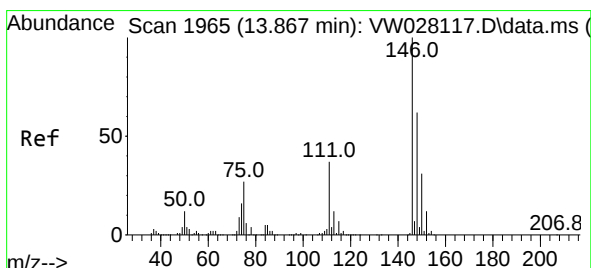
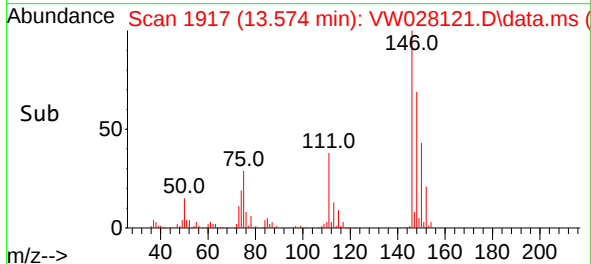
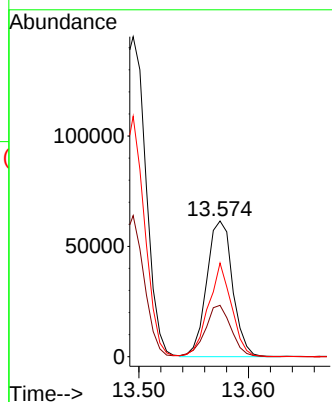
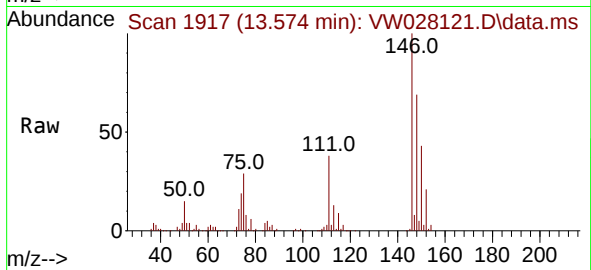




#65
1,4-Dichlorobenzene
Concen: 13.503 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

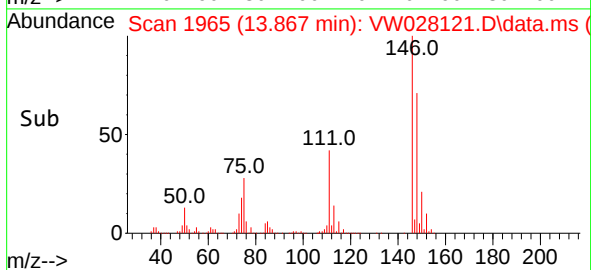
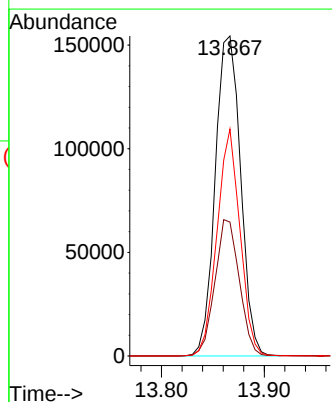
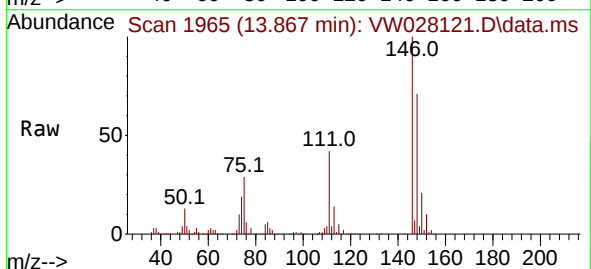
Instrument :
MSVOA_W
ClientSampleId :
DCNO2DL

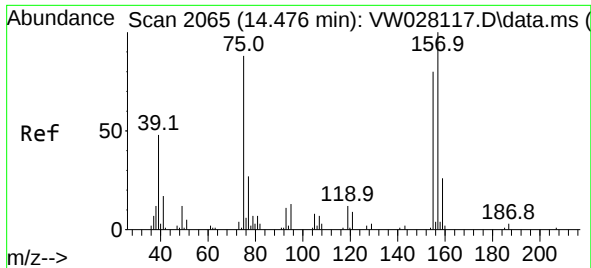
Tgt Ion:146 Resp: 101201
Ion Ratio Lower Upper
146 100
111 37.8 29.3 54.5
148 69.0 47.5 88.1



#67
1,2-Dichlorobenzene
Concen: 39.606 ug/L
RT: 13.867 min Scan# 1965
Delta R.T. -0.000 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

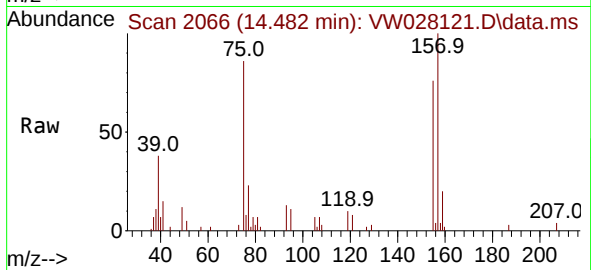
Tgt Ion:146 Resp: 264845
Ion Ratio Lower Upper
146 100
111 41.9 35.4 53.0
148 70.9 55.4 83.2





#68
 1,2-Dibromo-3-chloropropane
 Concen: 16.610 ug/L
 RT: 14.482 min Scan# 2066
 Delta R.T. 0.006 min
 Lab File: VW028121.D
 Acq: 07 Mar 2024 12:45

Instrument :
 MSVOA_W
 ClientSampleId :
 DCNO2DL



Tgt Ion:	75	Resp:	6279
Ion	Ratio	Lower	Upper
75	100		
155	88.5	69.3	103.9
157	116.6	82.4	123.6

