

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW030724\
 Data File : VW028119.D
 Acq On : 07 Mar 2024 11:51
 Operator : SY/MD
 Sample : P1638-01
 Misc : 5.00g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 DCNO2

Quant Time: Mar 08 00:16:57 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	8.843	114	256936	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	233438	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	128429	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	66351	21.633	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.520%
7) Chloroethane-d5	2.893	69	56197	23.653	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.600%
11) 1,1-Dichloroethene-d2	4.021	65	28905	23.072	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	92.280%
21) 2-Butanone-d5	7.075	46	28813	65.855	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	131.720%
24) Chloroform-d	7.648	84	133850	24.596	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.400%
26) 1,2-Dichloroethane-d4	8.301	65	70263	27.743	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	110.960%
32) Benzene-d6	8.270	84	274123	25.155	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.600%
36) 1,2-Dichloropropane-d6	9.270	67	73120	25.970	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	103.880%
41) Toluene-d8	10.318	98	260209	25.337	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	101.360%
43) trans-1,3-Dichloroprop...	10.575	79	33854	27.438	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	109.760%
47) 2-Hexanone-d5	10.922	63	29161	73.531	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	147.060%#
56) 1,1,2,2-Tetrachloroeth...	12.690	84	67906	30.558	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	122.240%#
66) 1,2-Dichlorobenzene-d4	13.848	152	93977	24.605	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.400%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.051	96	266998	83.593	ug/L #	82
13) Acetone	4.118	43	98733	161.446	ug/L	99
16) Methylene chloride	4.917	84	138893	39.298	ug/L	97
17) trans-1,2-Dichloroethene	5.423	96	77435	22.689	ug/L	98
18) Methyl tert-butyl Ether	5.429	73	81791	19.569	ug/L #	91
20) cis-1,2-Dichloroethene	7.173	96	103233	28.742	ug/L	95
22) 2-Butanone	7.167	43	83104	121.676	ug/L	98
27) 1,2-Dichloroethane	8.398	62	128096	35.740	ug/L	98
31) Carbon tetrachloride	8.069	117	328010	67.392	ug/L	99
33) Benzene	8.319	78	608233	48.229	ug/L	100
34) Trichloroethene	9.087	95	310566	84.047	ug/L	97
37) 1,2-Dichloropropane	9.361	63	135355	46.088	ug/L	100
38) Bromodichloromethane	9.642	83	226444	53.381	ug/L	97
39) cis-1,3-Dichloropropene	10.069	75	258730	53.572	ug/L	97
40) 4-Methyl-2-pentanone	10.203	43	264498	226.749	ug/L	99
44) trans-1,3-Dichloropropene	10.605	75	145505	37.087	ug/L	100
45) 1,1,2-Trichloroethane	10.788	97	105231	42.724	ug/L	96
46) Tetrachloroethene	10.861	164	148639	47.996	ug/L	92
48) 2-Hexanone	10.965	43	110103	116.736	ug/L	100

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

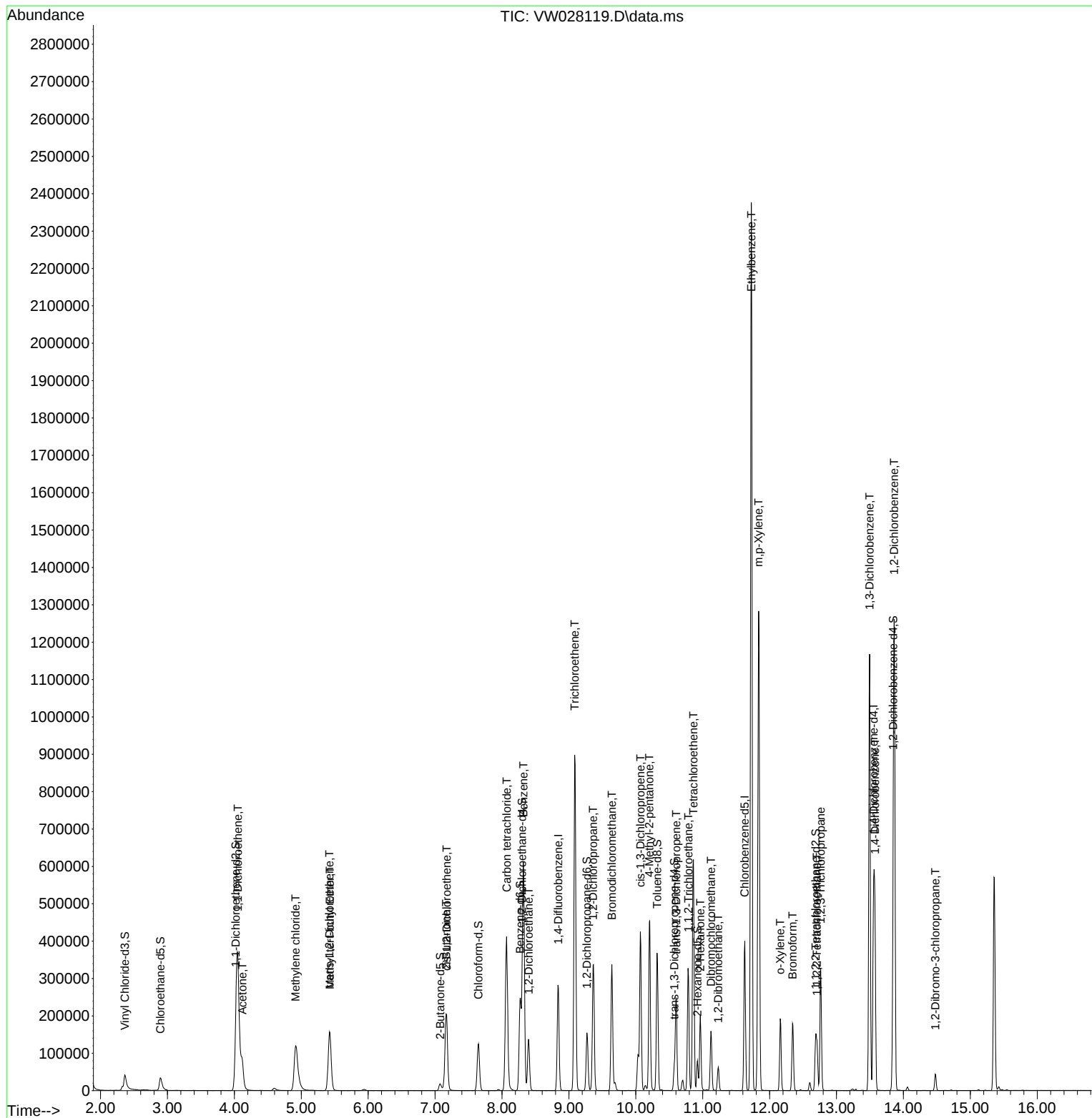
49) Dibromochloromethane	11.123	129	85911	30.004	ug/L	97
50) 1,2-Dibromoethane	11.233	107	42403	17.874	ug/L	99
52) Ethylbenzene	11.727	91	1271100	78.020	ug/L	99
53) m,p-Xylene	11.836	106	426458	67.466	ug/L	99
54) o-Xylene	12.160	106	53940	9.017	ug/L	96
57) 1,1,2,2-Tetrachloroethane	12.708	83	52545	19.785	ug/L	99
59) Bromoform	12.342	173	85756	47.101	ug/L #	97
61) 1,2,3-Trichloropropane	12.763	75	135552	68.661	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	488719	60.018	ug/L	92
65) 1,4-Dichlorobenzene	13.574	146	192940	23.470	ug/L	98
67) 1,2-Dichlorobenzene	13.861	146	483754	65.953	ug/L	94
68) 1,2-Dibromo-3-chloropr...	14.476	75	11353	27.379	ug/L	95

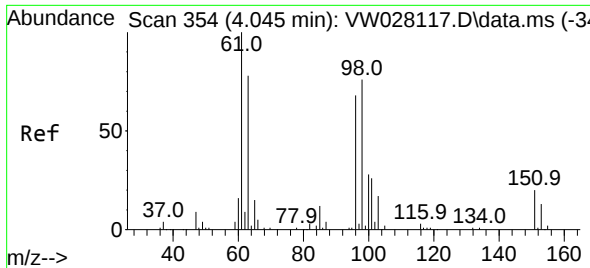
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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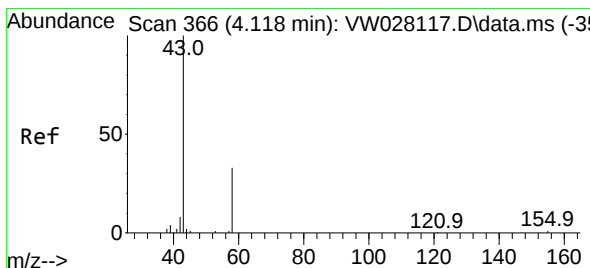
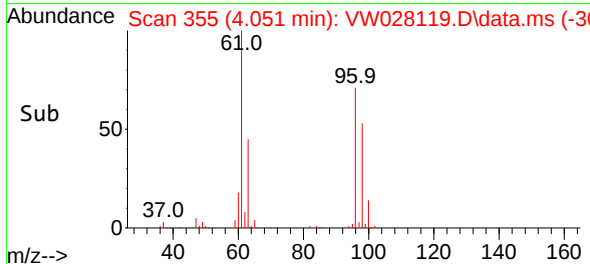
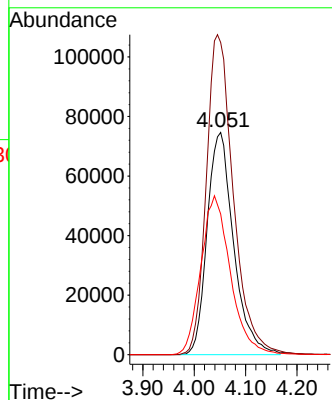
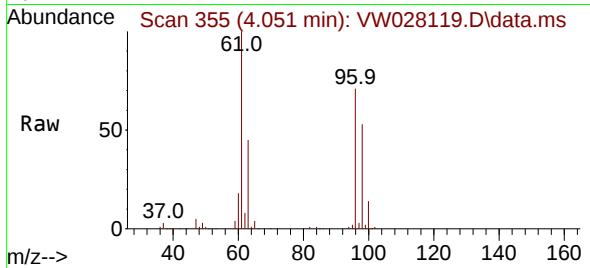




#12
1,1-Dichloroethene
Concen: 83.593 ug/L
RT: 4.051 min Scan# 354
Delta R.T. 0.006 min
Lab File: VW028119.D
Acq: 07 Mar 2024 11:51

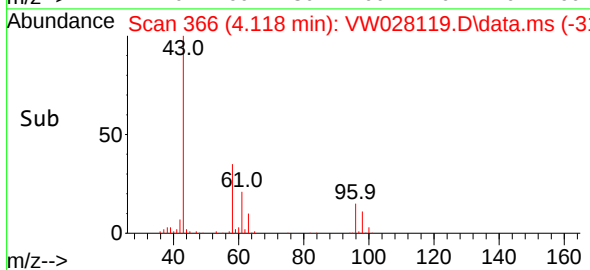
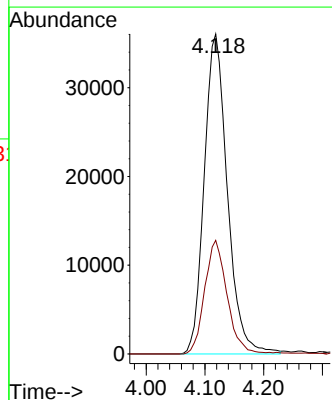
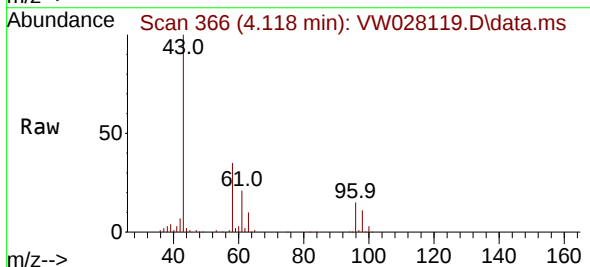
Instrument :
MSVOA_W
ClientSampleId :
DCNO2

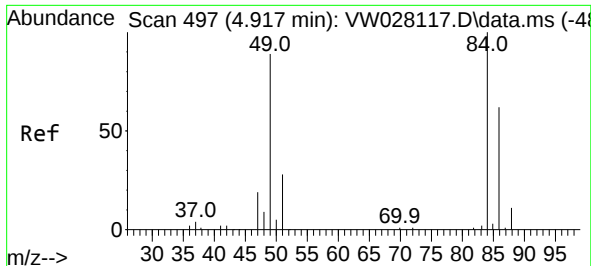
Tgt Ion: 96 Resp: 266998
Ion Ratio Lower Upper
96 100
61 140.4 100.5 186.7
63 63.3 72.9 135.5#



#13
Acetone
Concen: 161.446 ug/L
RT: 4.118 min Scan# 366
Delta R.T. -0.000 min
Lab File: VW028119.D
Acq: 07 Mar 2024 11:51

Tgt Ion: 43 Resp: 98733
Ion Ratio Lower Upper
43 100
58 34.3 0.0 70.0

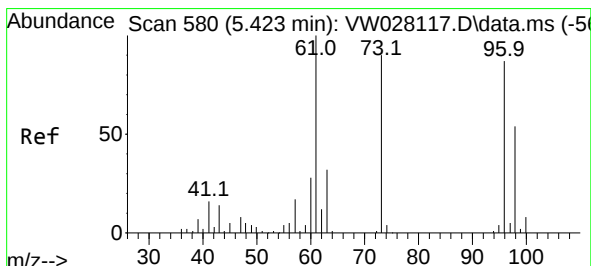
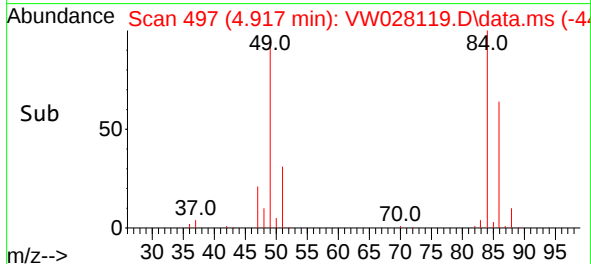
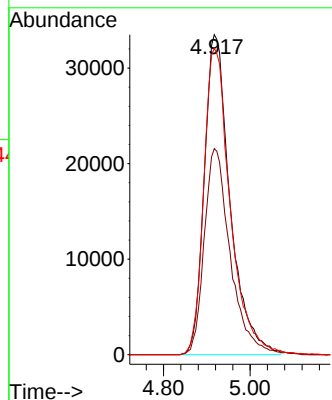
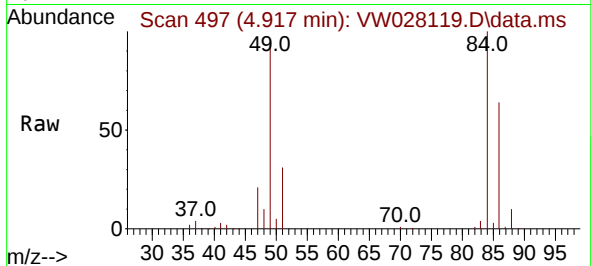




#16
Methylene chloride
Concen: 39.298 ug/L
RT: 4.917 min Scan# 497
Delta R.T. -0.000 min
Lab File: VW028119.D
Acq: 07 Mar 2024 11:51

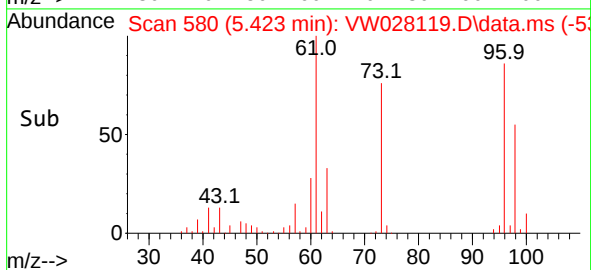
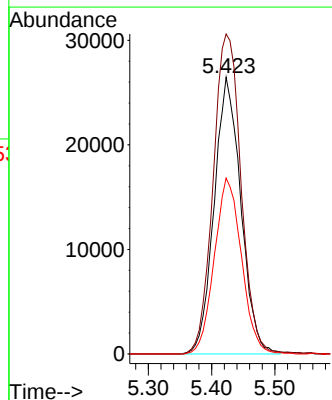
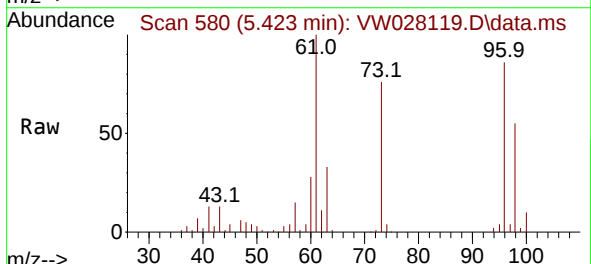
Instrument :
MSVOA_W
ClientSampleId :
DCNO2

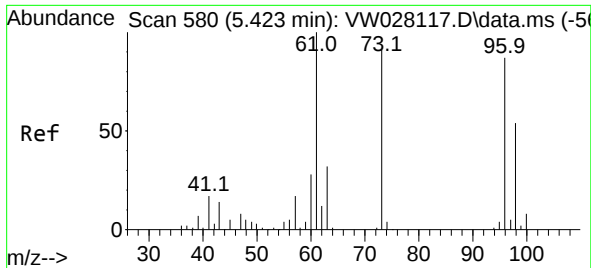
Tgt Ion: 84 Resp: 138893
Ion Ratio Lower Upper
84 100
86 64.4 41.2 76.6
49 95.7 66.5 123.5



#17
trans-1,2-Dichloroethene
Concen: 22.689 ug/L
RT: 5.423 min Scan# 580
Delta R.T. -0.000 min
Lab File: VW028119.D
Acq: 07 Mar 2024 11:51

Tgt Ion: 96 Resp: 77435
Ion Ratio Lower Upper
96 100
61 115.7 82.6 153.4
98 63.6 44.7 83.1

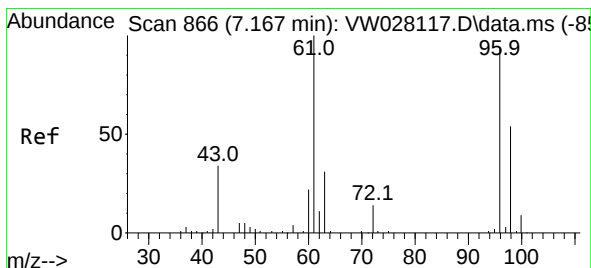
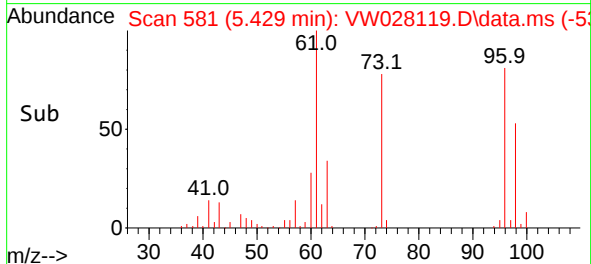
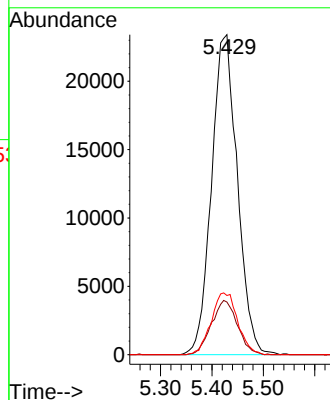
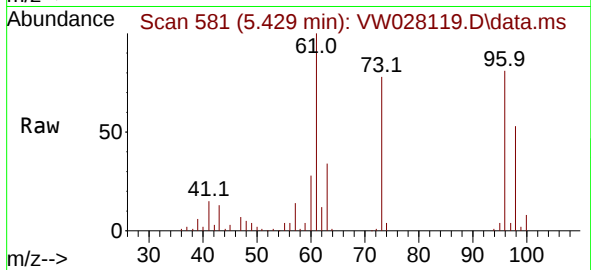




#18
Methyl tert-butyl Ether
Concen: 19.569 ug/L
RT: 5.429 min Scan# 580
Delta R.T. 0.006 min
Lab File: VW028119.D
Acq: 07 Mar 2024 11:51

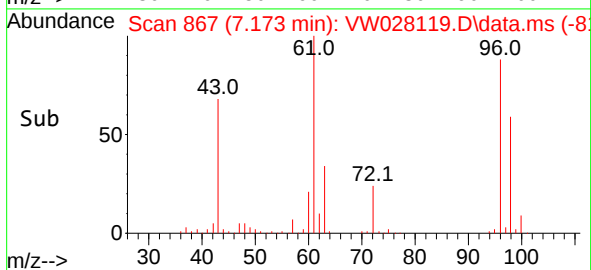
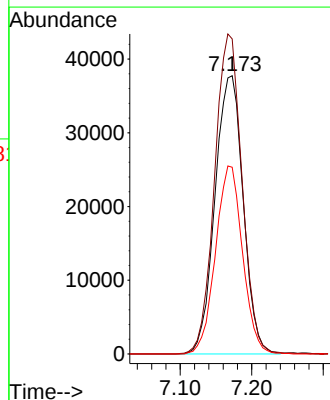
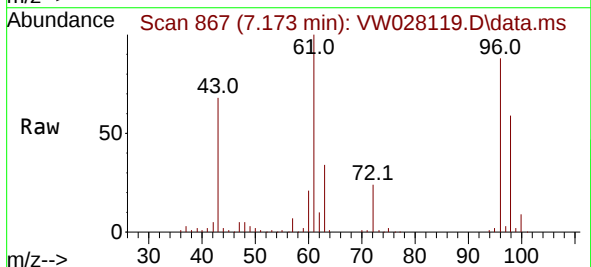
Instrument :
MSVOA_W
ClientSampleId :
DCNO2

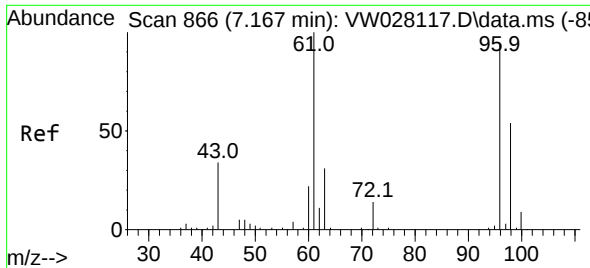
Tgt Ion: 73 Resp: 81791
Ion Ratio Lower Upper
73 100
43 17.0 13.3 19.9
57 12.3 15.9 23.9#



#20
cis-1,2-Dichloroethene
Concen: 28.742 ug/L
RT: 7.173 min Scan# 867
Delta R.T. 0.006 min
Lab File: VW028119.D
Acq: 07 Mar 2024 11:51

Tgt Ion: 96 Resp: 103233
Ion Ratio Lower Upper
96 100
61 113.2 75.5 140.1
98 67.1 43.8 81.4

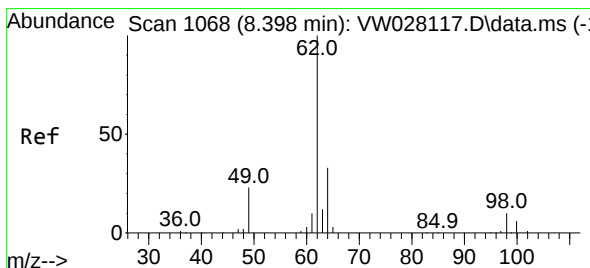
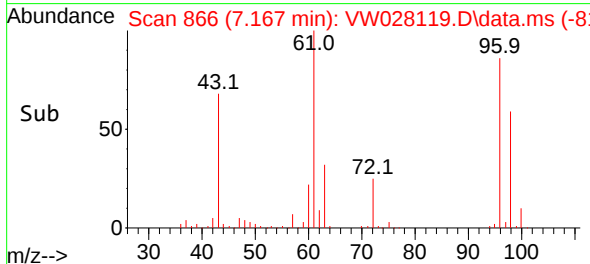
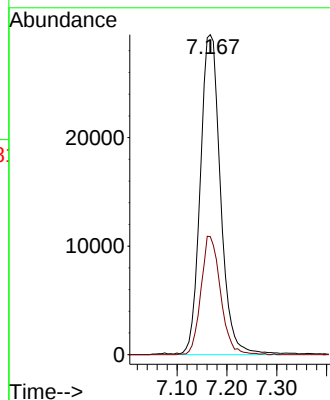
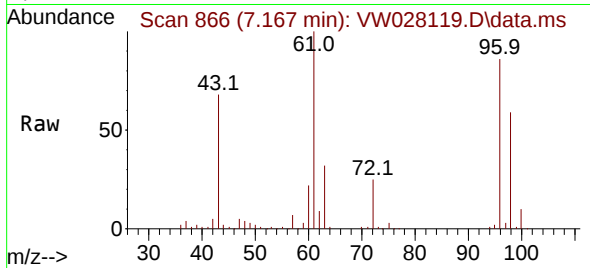




#22
2-Butanone
Concen: 121.676 ug/L
RT: 7.167 min Scan# 866
Delta R.T. -0.000 min
Lab File: VW028119.D
Acq: 07 Mar 2024 11:51

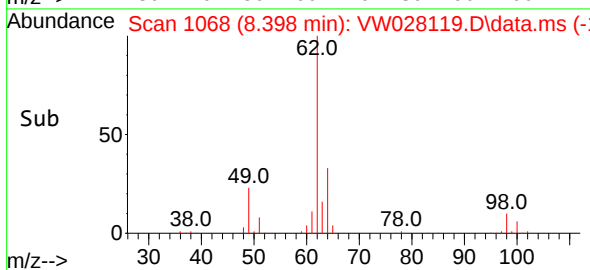
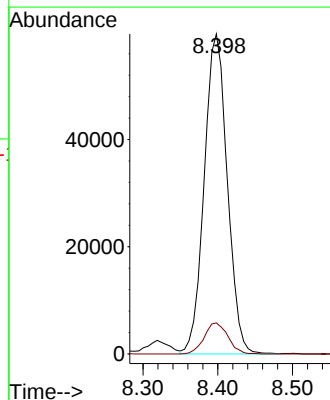
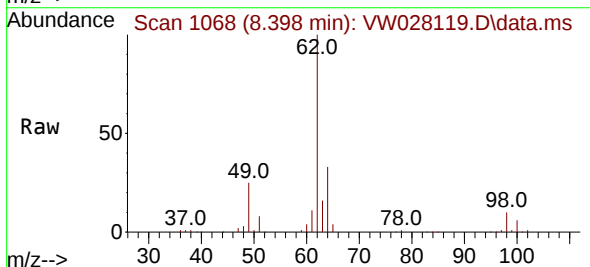
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ClientSampleId :
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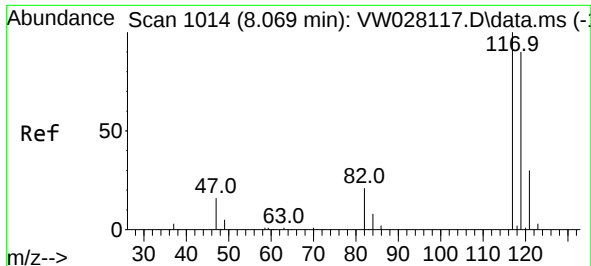
Tgt Ion: 43 Resp: 83104
Ion Ratio Lower Upper
43 100
72 35.6 18.4 55.0



#27
1,2-Dichloroethane
Concen: 35.740 ug/L
RT: 8.398 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VW028119.D
Acq: 07 Mar 2024 11:51

Tgt Ion: 62 Resp: 128096
Ion Ratio Lower Upper
62 100
98 9.7 8.2 12.4

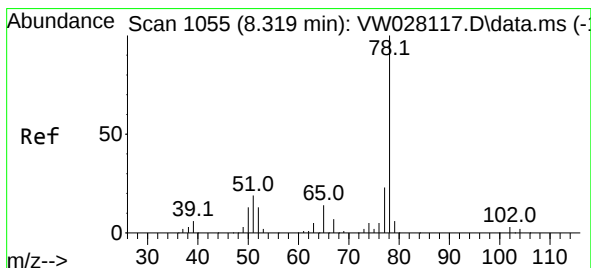
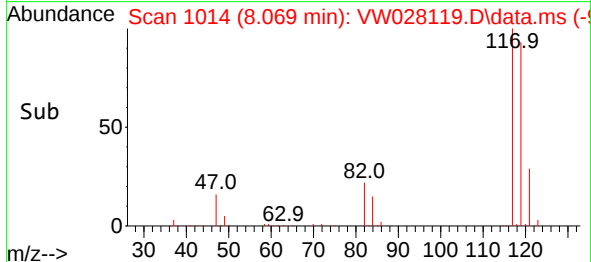
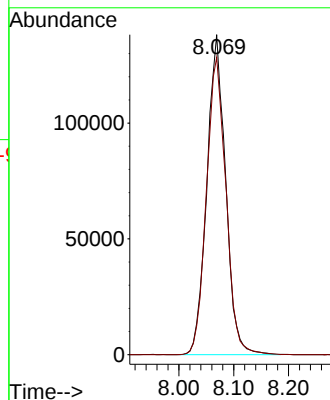
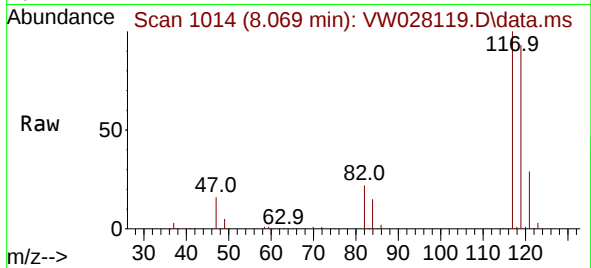




#31
Carbon tetrachloride
Concen: 67.392 ug/L
RT: 8.069 min Scan# 1014
Delta R.T. -0.000 min
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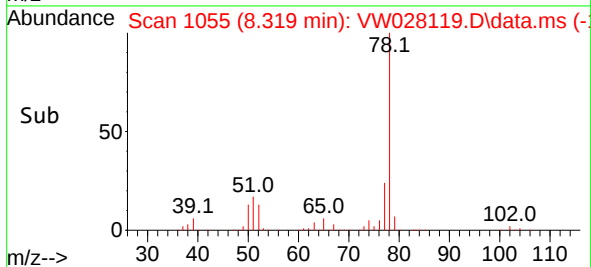
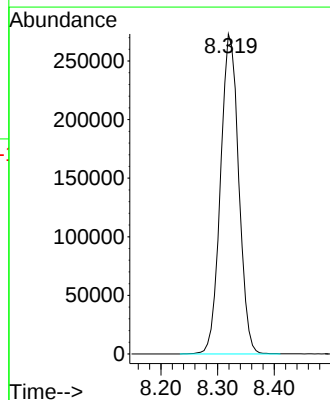
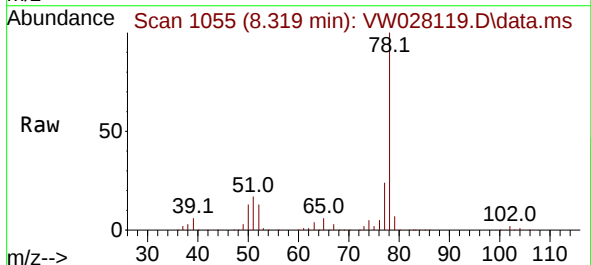
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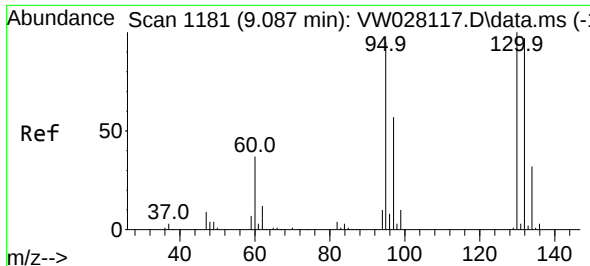
Tgt Ion:117 Resp: 328010
Ion Ratio Lower Upper
117 100
119 96.8 76.8 115.2



#33
Benzene
Concen: 48.229 ug/L
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW028119.D
Acq: 07 Mar 2024 11:51

Tgt Ion: 78 Resp: 608233

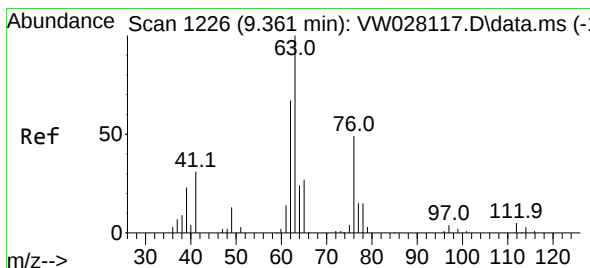
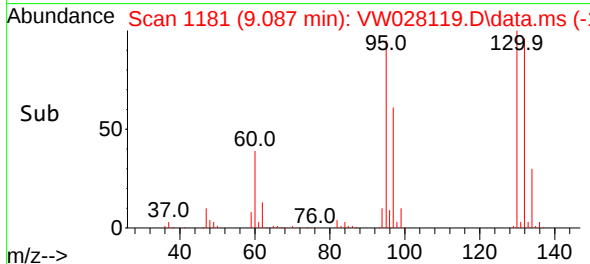
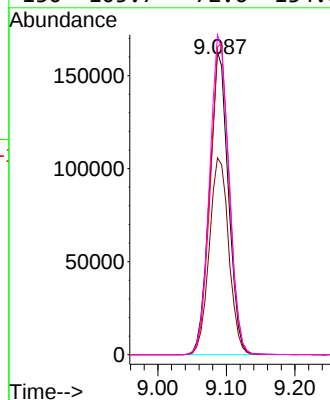
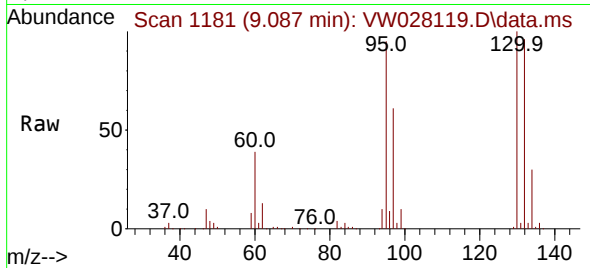




#34
Trichloroethene
Concen: 84.047 ug/L
RT: 9.087 min Scan# 1181
Delta R.T. -0.000 min
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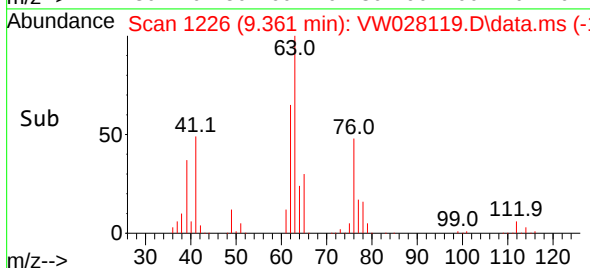
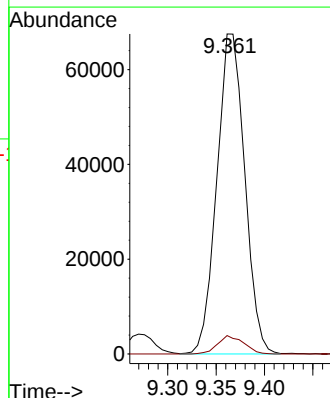
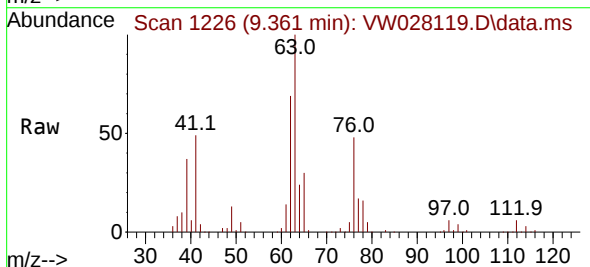
Instrument :
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ClientSampleId :
DCNO2

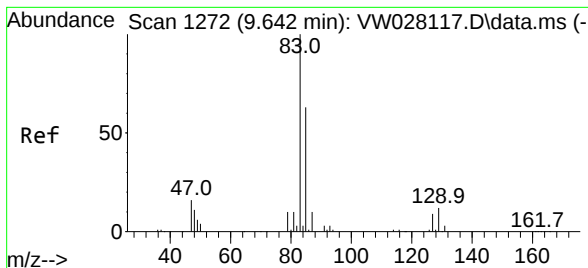
Tgt Ion: 95 Resp: 310566
Ion Ratio Lower Upper
95 100
97 65.0 44.5 82.7
132 101.7 68.3 126.9
130 105.7 72.6 134.8



#37
1,2-Dichloropropane
Concen: 46.088 ug/L
RT: 9.361 min Scan# 1226
Delta R.T. -0.000 min
Lab File: VW028119.D
Acq: 07 Mar 2024 11:51

Tgt Ion: 63 Resp: 135355
Ion Ratio Lower Upper
63 100
112 5.4 4.4 6.6





#38

Bromodichloromethane

Concen: 53.381 ug/L

RT: 9.642 min Scan# 1272

Delta R.T. -0.000 min

Lab File: VW028119.D

Acq: 07 Mar 2024 11:51

Instrument :

MSVOA_W

ClientSampleId :

DCNO2

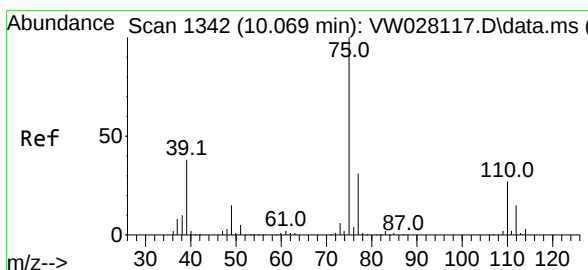
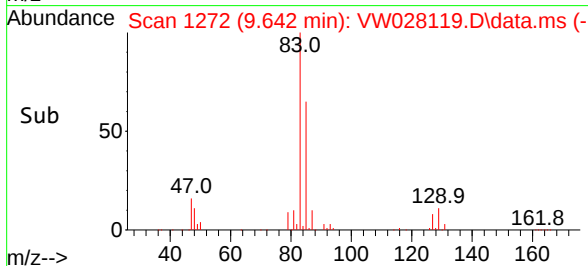
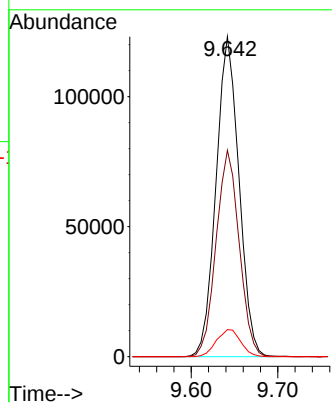
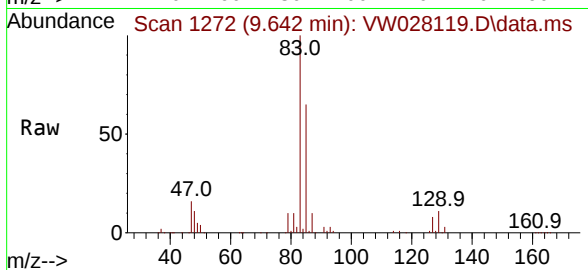
Tgt Ion: 83 Resp: 226444

Ion Ratio Lower Upper

83 100

85 64.5 43.3 80.5

127 8.5 6.9 10.3



#39

cis-1,3-Dichloropropene

Concen: 53.572 ug/L

RT: 10.069 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VW028119.D

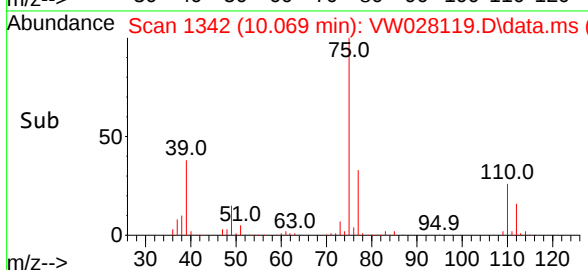
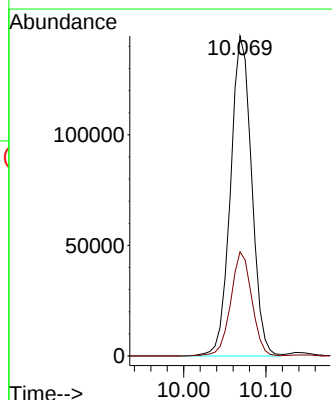
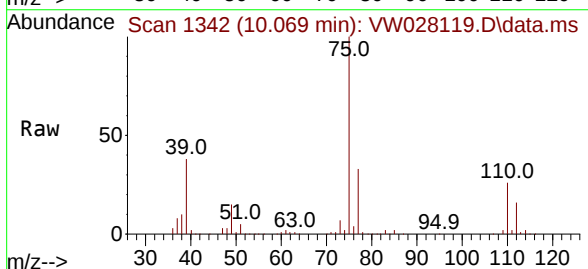
Acq: 07 Mar 2024 11:51

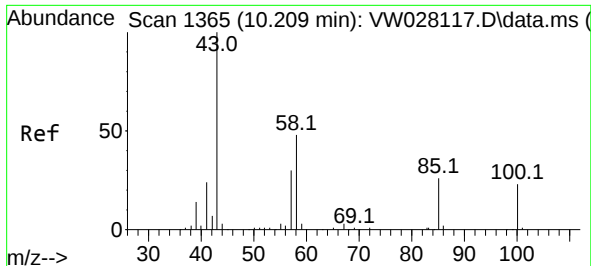
Tgt Ion: 75 Resp: 258730

Ion Ratio Lower Upper

75 100

77 32.6 21.7 40.3





#40

4-Methyl-2-pentanone

Concen: 226.749 ug/L

RT: 10.203 min Scan# 11

Delta R.T. -0.006 min

Lab File: VW028119.D

Acq: 07 Mar 2024 11:51

Instrument :

MSVOA_W

ClientSampleId :

DCNO2

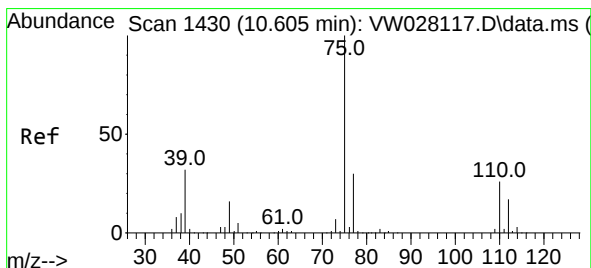
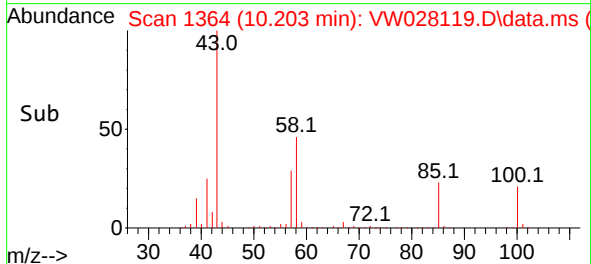
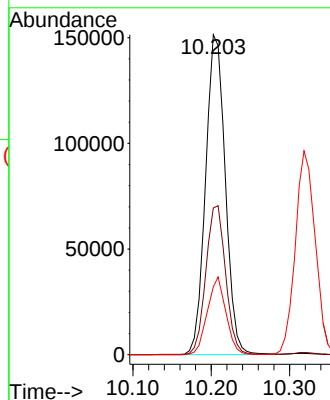
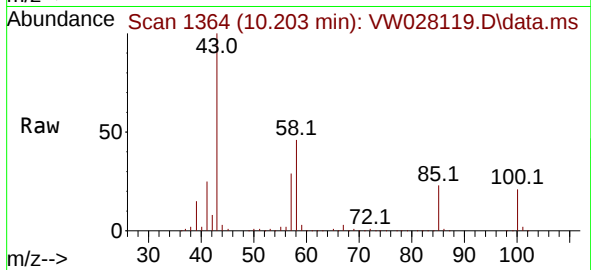
Tgt Ion: 43 Resp: 264498

Ion Ratio Lower Upper

43 100

58 46.7 37.8 56.8

100 22.9 18.2 27.4



#44

trans-1,3-Dichloropropene

Concen: 37.087 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. -0.000 min

Lab File: VW028119.D

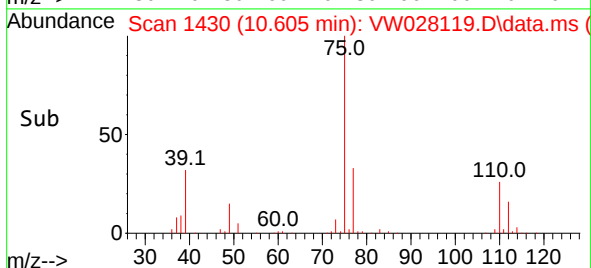
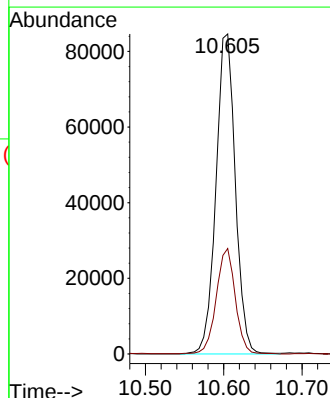
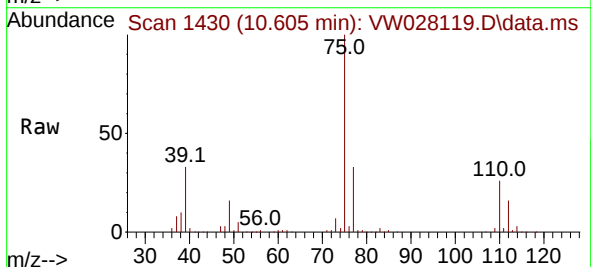
Acq: 07 Mar 2024 11:51

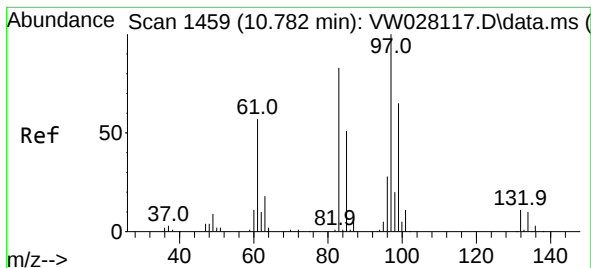
Tgt Ion: 75 Resp: 145505

Ion Ratio Lower Upper

75 100

77 33.0 22.9 42.5





#45

1,1,2-Trichloroethane

Concen: 42.724 ug/L

RT: 10.788 min Scan# 1459

Delta R.T. 0.006 min

Lab File: VW028119.D

Acq: 07 Mar 2024 11:51

Instrument :

MSVOA_W

ClientSampleId :

DCNO2

Tgt Ion: 97 Resp: 105231

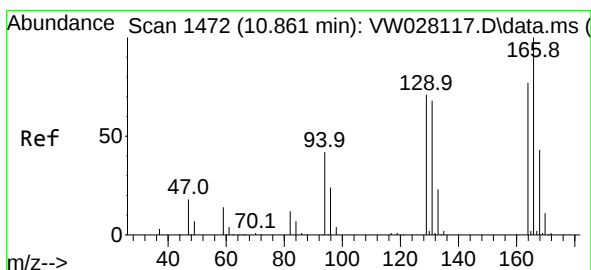
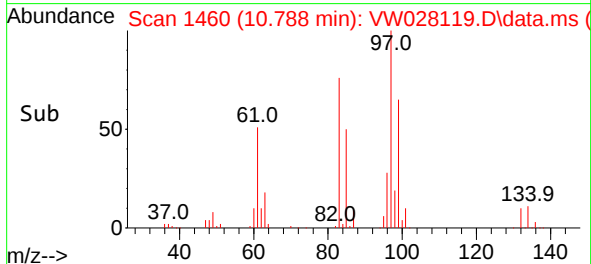
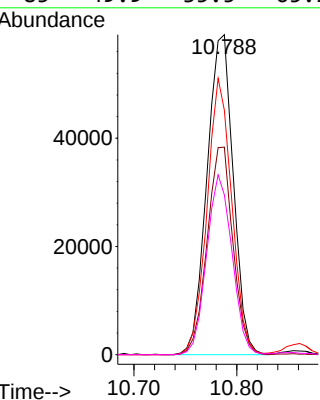
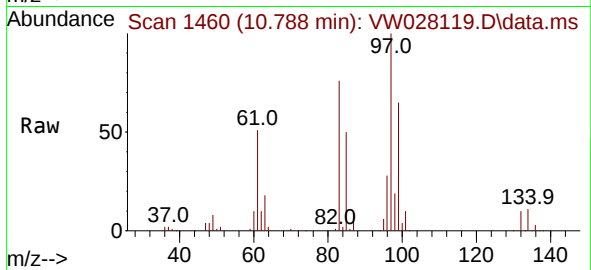
Ion Ratio Lower Upper

97 100

99 64.9 41.9 77.7

83 76.4 56.1 104.1

85 49.9 35.5 65.9



#46

Tetrachloroethene

Concen: 47.996 ug/L

RT: 10.861 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VW028119.D

Acq: 07 Mar 2024 11:51

Tgt Ion:164 Resp: 148639

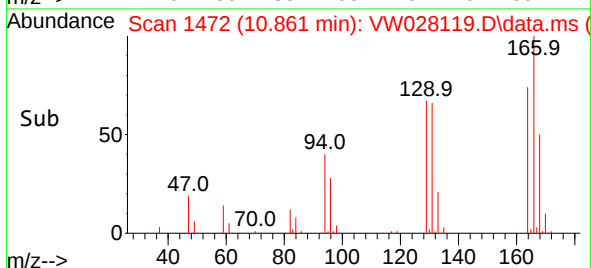
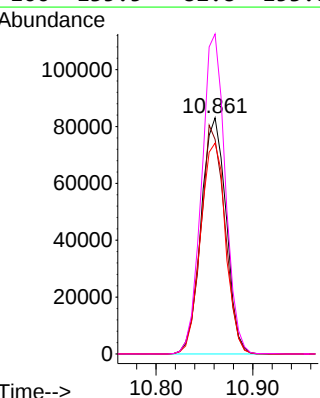
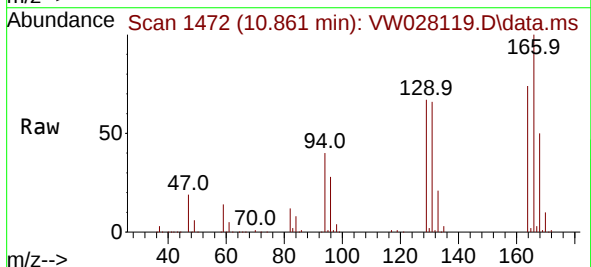
Ion Ratio Lower Upper

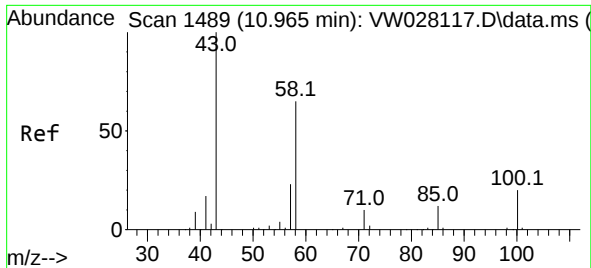
164 100

129 90.8 65.2 121.0

131 89.3 66.2 123.0

166 135.5 82.8 153.8

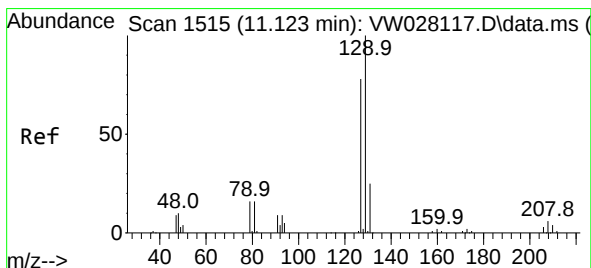
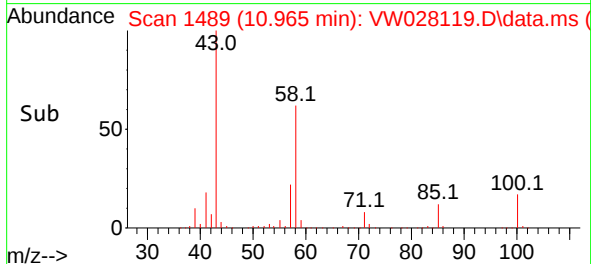
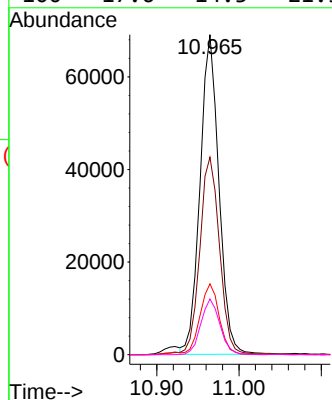
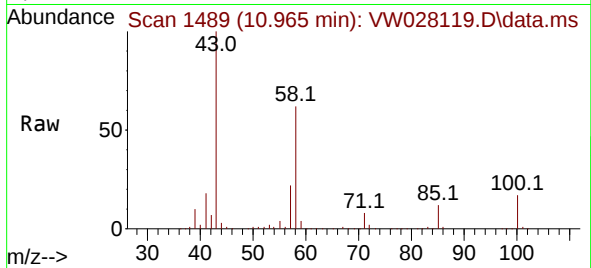




#48
2-Hexanone
Concen: 116.736 ug/L
RT: 10.965 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VW028119.D
Acq: 07 Mar 2024 11:51

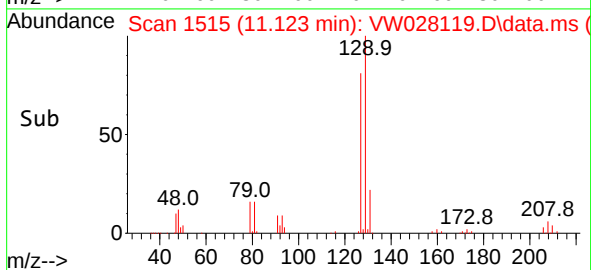
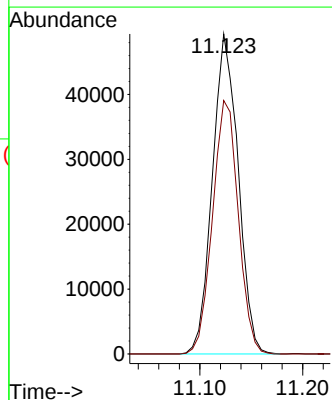
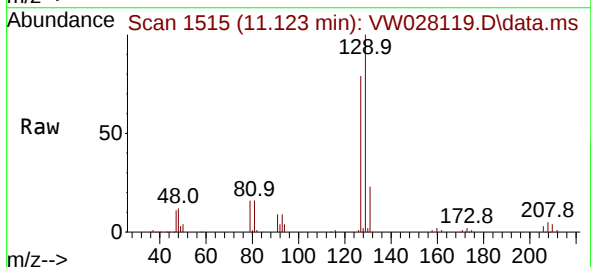
Instrument :
MSVOA_W
ClientSampleId :
DCNO2

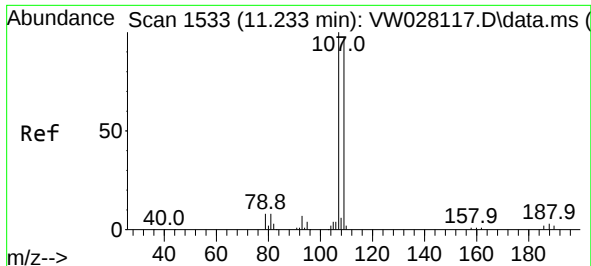
Tgt Ion:	43	Resp:	110103
Ion	Ratio	Lower	Upper
43	100		
58	64.7	51.8	77.8
57	22.4	18.2	27.4
100	17.6	14.3	21.5



#49
Dibromochloromethane
Concen: 30.004 ug/L
RT: 11.123 min Scan# 1515
Delta R.T. -0.000 min
Lab File: VW028119.D
Acq: 07 Mar 2024 11:51

Tgt Ion:	129	Resp:	85911
Ion	Ratio	Lower	Upper
129	100		
127	79.2	57.1	106.1





#50

1,2-Dibromoethane

Concen: 17.874 ug/L

RT: 11.233 min Scan# 11

Delta R.T. -0.000 min

Lab File: VW028119.D

Acq: 07 Mar 2024 11:51

Instrument :

MSVOA_W

ClientSampleId :

DCNO2

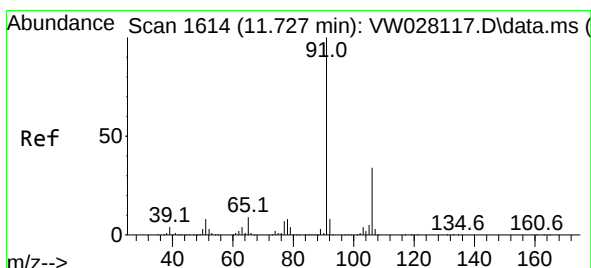
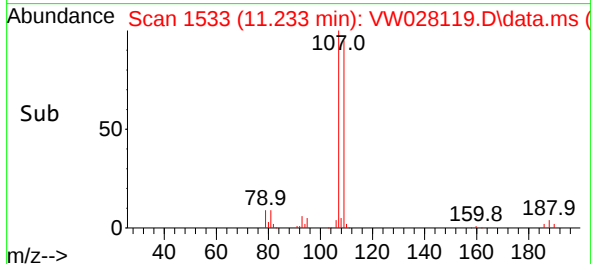
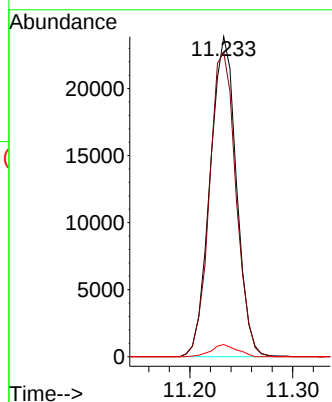
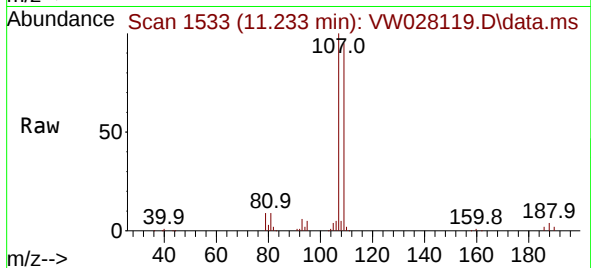
Tgt Ion:107 Resp: 42403

Ion Ratio Lower Upper

107 100

109 95.1 67.5 125.3

188 3.8 3.1 4.7



#52

Ethylbenzene

Concen: 78.020 ug/L

RT: 11.727 min Scan# 1614

Delta R.T. -0.000 min

Lab File: VW028119.D

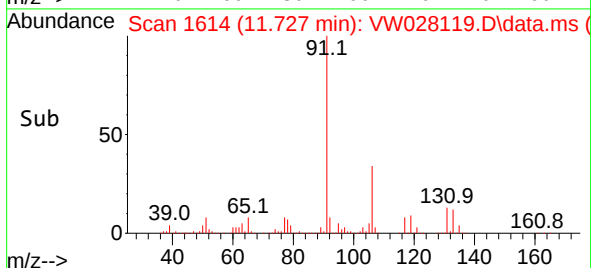
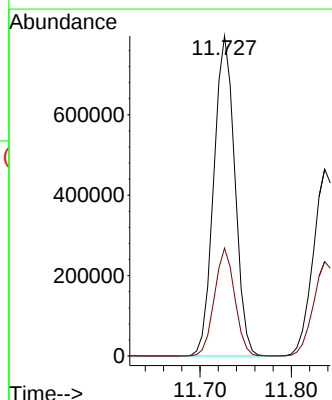
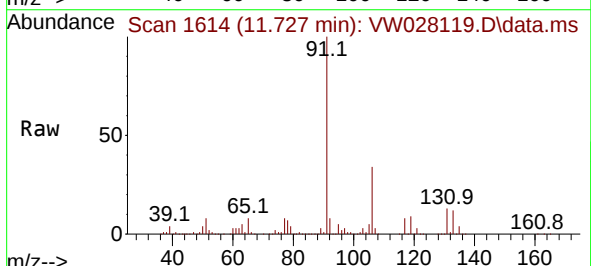
Acq: 07 Mar 2024 11:51

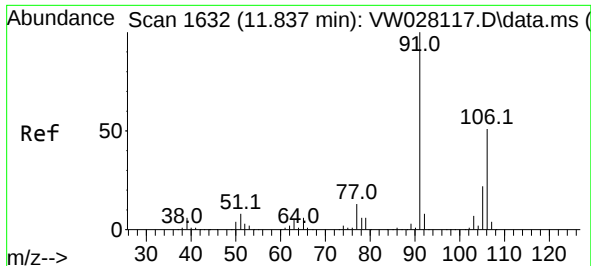
Tgt Ion: 91 Resp: 1271100

Ion Ratio Lower Upper

91 100

106 33.7 23.8 44.2

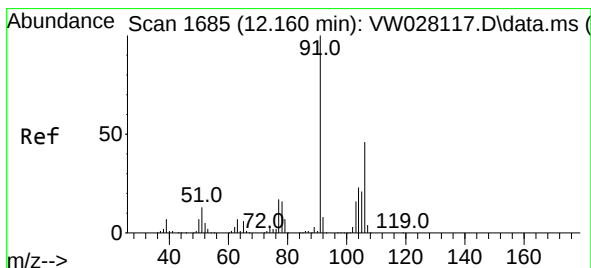
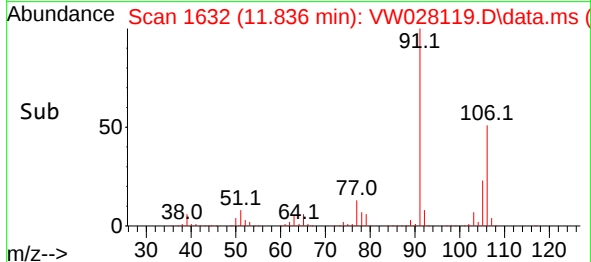
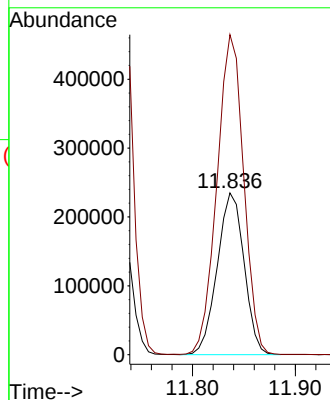
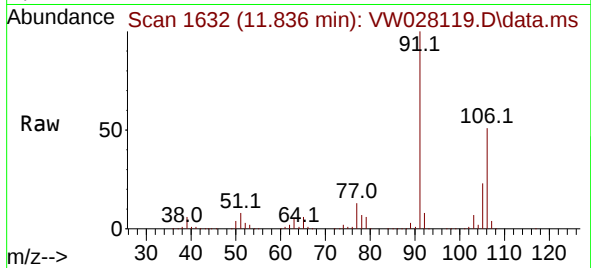




#53
m,p-Xylene
Concen: 67.466 ug/L
RT: 11.836 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW028119.D
Acq: 07 Mar 2024 11:51

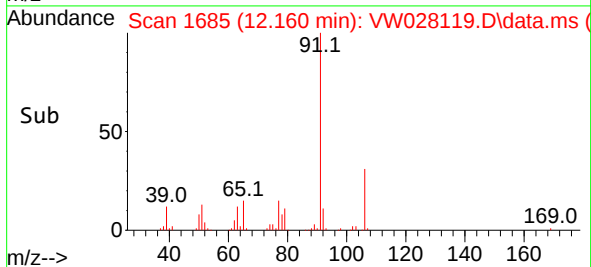
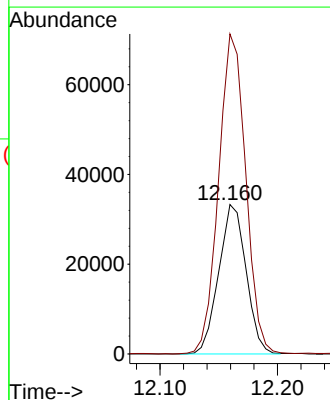
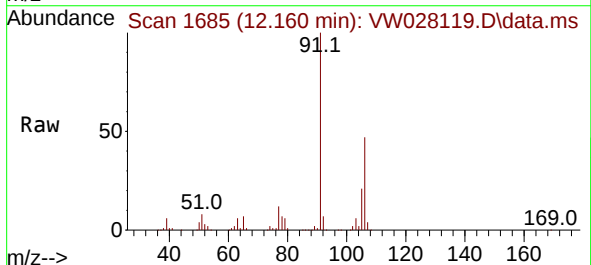
Instrument :
MSVOA_W
ClientSampleId :
DCNO2

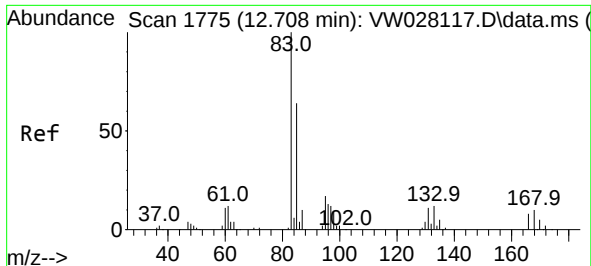
Tgt Ion:106 Resp: 426458
Ion Ratio Lower Upper
106 100
91 197.8 139.7 259.4



#54
o-Xylene
Concen: 9.017 ug/L
RT: 12.160 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VW028119.D
Acq: 07 Mar 2024 11:51

Tgt Ion:106 Resp: 53940
Ion Ratio Lower Upper
106 100
91 214.0 145.2 269.6

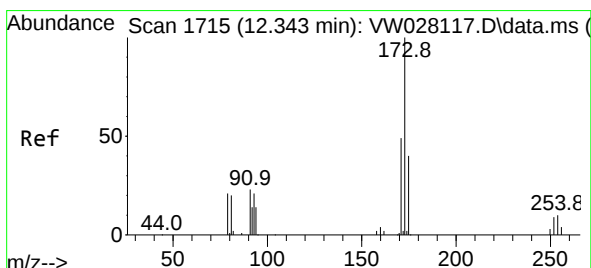
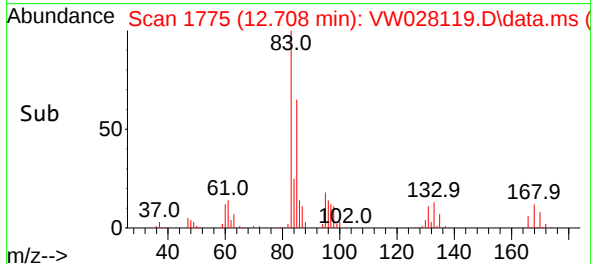
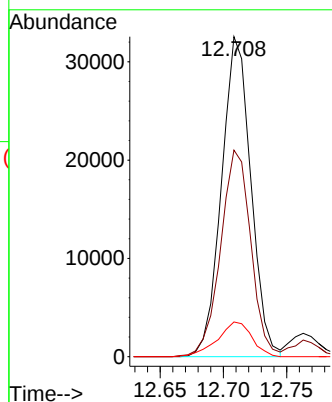
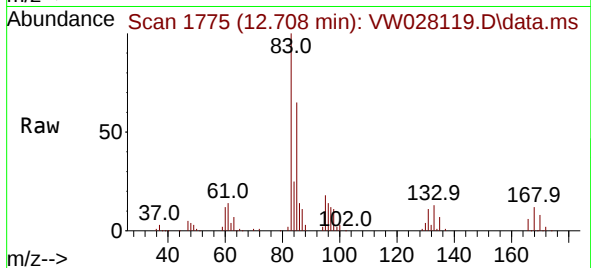




#57
1,1,2,2-Tetrachloroethane
Concen: 19.785 ug/L
RT: 12.708 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VW028119.D
Acq: 07 Mar 2024 11:51

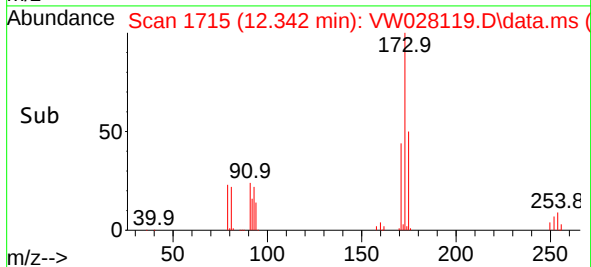
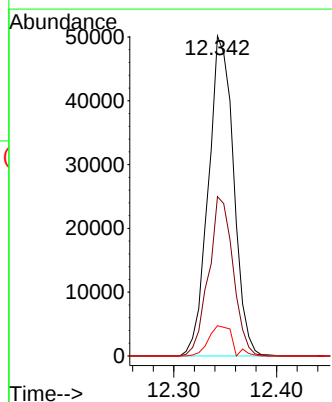
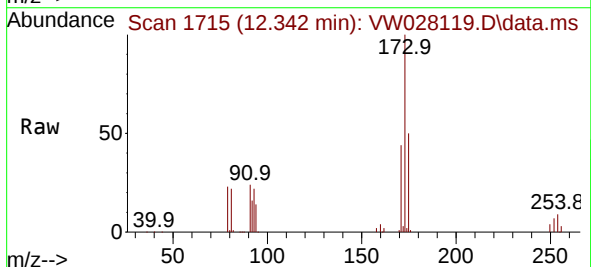
Instrument :
MSVOA_W
ClientSampleId :
DCNO2

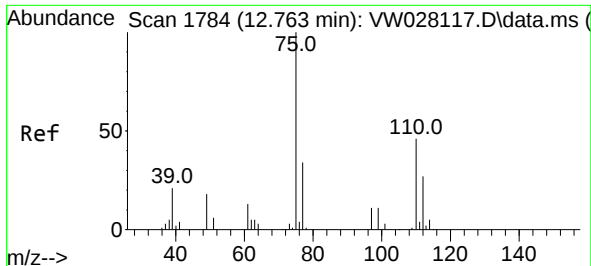
Tgt Ion: 83 Resp: 52545
Ion Ratio Lower Upper
83 100
85 64.6 45.7 84.9
131 10.9 9.7 14.5



#59
Bromoform
Concen: 47.101 ug/L
RT: 12.342 min Scan# 1715
Delta R.T. -0.000 min
Lab File: VW028119.D
Acq: 07 Mar 2024 11:51

Tgt Ion:173 Resp: 85756
Ion Ratio Lower Upper
173 100
175 48.2 37.2 55.8
254 8.2 8.5 12.7#





#61

1,2,3-Trichloropropane

Concen: 68.661 ug/L

RT: 12.763 min Scan# 11

Delta R.T. -0.000 min

Lab File: VW028119.D

Acq: 07 Mar 2024 11:51

Instrument :

MSVOA_W

ClientSampleId :

DCNO2

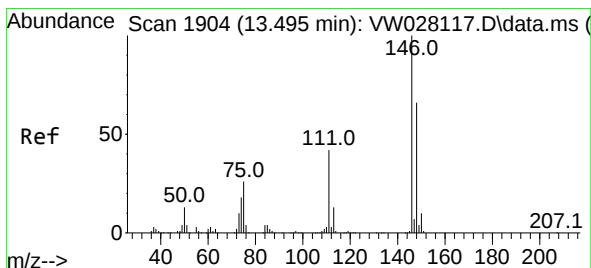
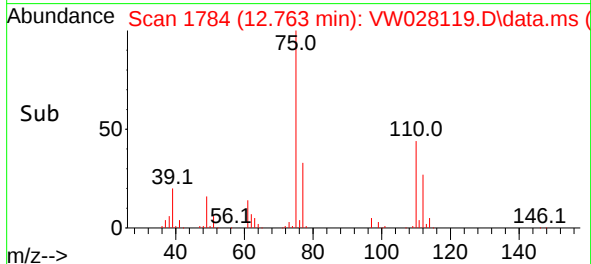
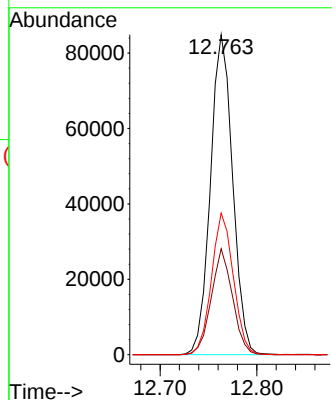
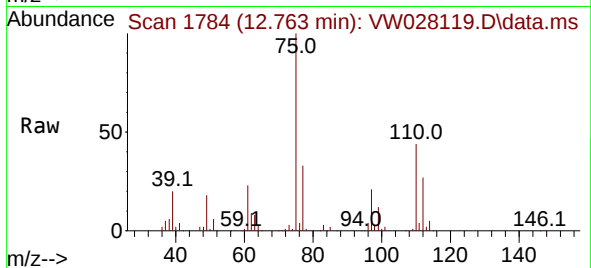
Tgt Ion: 75 Resp: 135552

Ion Ratio Lower Upper

75 100

77 31.7 25.9 38.9

110 43.6 34.1 51.1



#64

1,3-Dichlorobenzene

Concen: 60.018 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VW028119.D

Acq: 07 Mar 2024 11:51

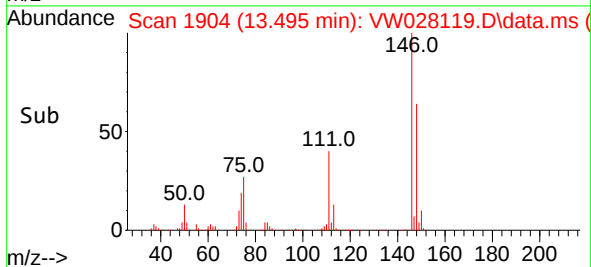
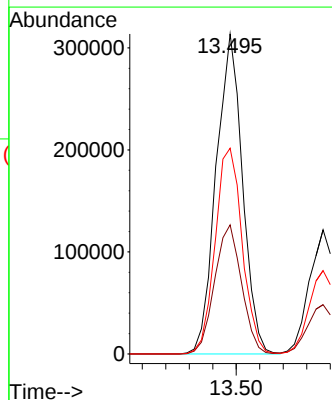
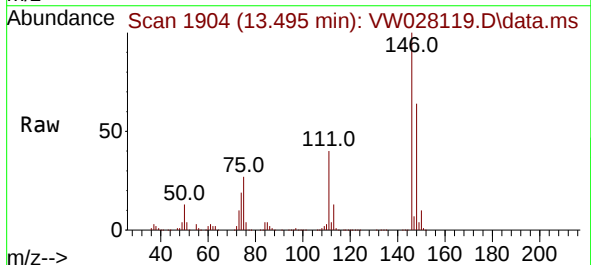
Tgt Ion:146 Resp: 488719

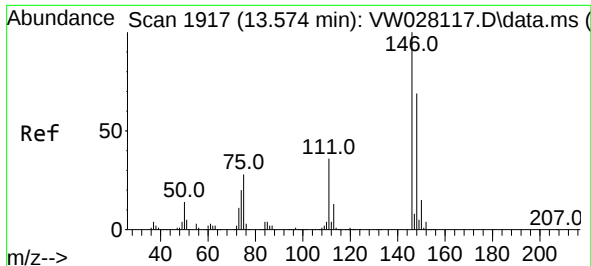
Ion Ratio Lower Upper

146 100

111 40.3 27.9 51.9

148 64.3 38.7 71.9

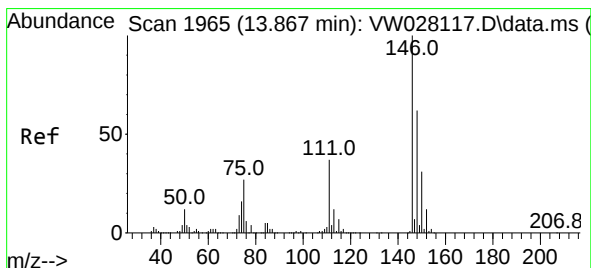
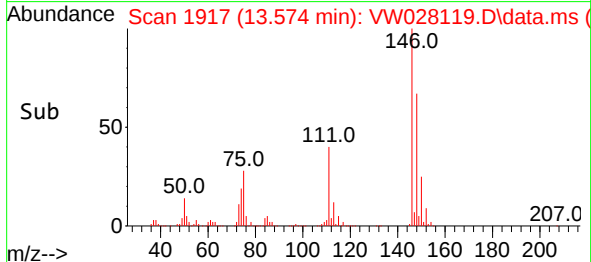
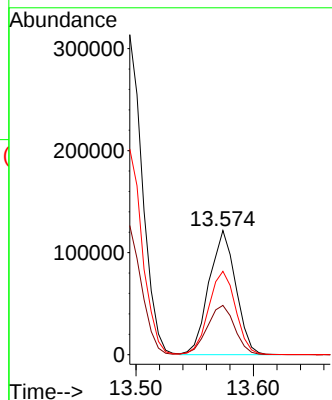
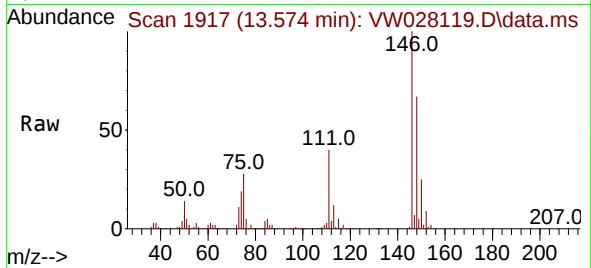




#65
1,4-Dichlorobenzene
Concen: 23.470 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW028119.D
Acq: 07 Mar 2024 11:51

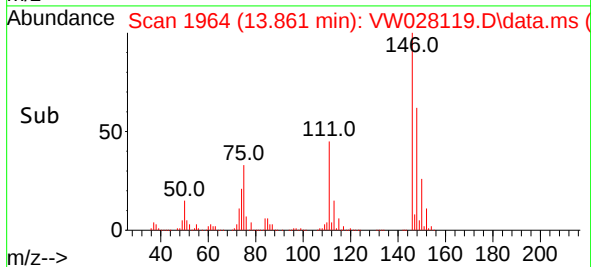
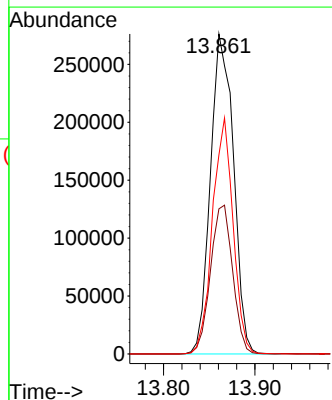
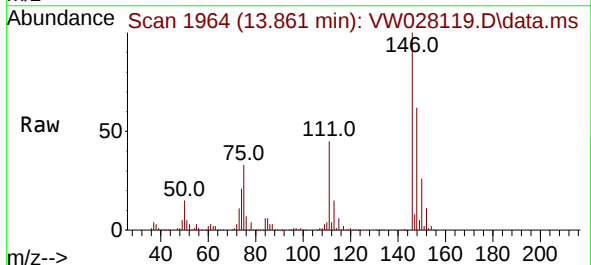
Instrument :
MSVOA_W
ClientSampleId :
DCNO2

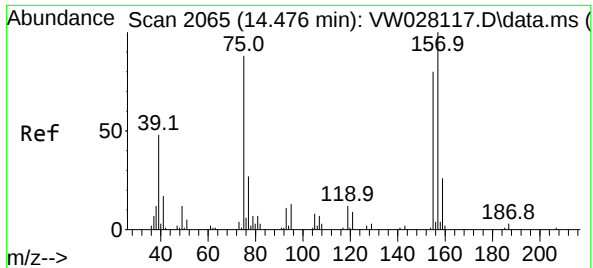
Tgt Ion:146 Resp: 192940
Ion Ratio Lower Upper
146 100
111 39.7 29.3 54.5
148 67.1 47.5 88.1



#67
1,2-Dichlorobenzene
Concen: 65.953 ug/L
RT: 13.861 min Scan# 1964
Delta R.T. -0.006 min
Lab File: VW028119.D
Acq: 07 Mar 2024 11:51

Tgt Ion:146 Resp: 483754
Ion Ratio Lower Upper
146 100
111 45.3 35.4 53.0
148 62.2 55.4 83.2





#68
 1,2-Dibromo-3-chloropropane
 Concen: 27.379 ug/L
 RT: 14.476 min Scan# 2065
 Delta R.T. -0.000 min
 Lab File: VW028119.D
 Acq: 07 Mar 2024 11:51

Instrument :
 MSVOA_W
 ClientSampleId :
 DCNO2

Tgt Ion:	75	Resp:	11353
Ion	Ratio	Lower	Upper
75	100		
155	86.8	69.3	103.9
157	112.1	82.4	123.6

