

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072823\
 Data File : VW026667.D
 Acq On : 28 Jul 2023 12:46
 Operator : SY/MD
 Sample : 03805-06
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 X3H65

Quant Time: Jul 28 22:08:48 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM071123SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Jul 28 22:07:53 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	650351	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	583161	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	269805	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	221288	20.172	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	80.680%
7) Chloroethane-d5	2.887	69	163279	21.211	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.840%
11) 1,1-Dichloroethene-d2	4.027	65	108004	20.964	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	83.840%
21) 2-Butanone-d5	7.075	46	121694	34.325	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	68.640%
24) Chloroform-d	7.642	84	458822	24.505	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.000%
26) 1,2-Dichloroethane-d4	8.471	65	223	0.021	ug/L	0.17
Spiked Amount	25.000	Range	70 - 130	Recovery	=	0.080%#
32) Benzene-d6	8.270	84	955613	23.871	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	95.480%
36) 1,2-Dichloropropane-d6	9.270	67	299619	24.341	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	97.360%
41) Toluene-d8	10.319	98	841140	24.498	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	98.000%
43) trans-1,3-Dichloroprop...	10.575	79	114779	23.268	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.080%
47) 2-Hexanone-d5	10.922	63	92838	38.652	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	77.300%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	207876	19.942	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	79.760%
66) 1,2-Dichlorobenzene-d4	13.849	152	233636	23.585	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	94.360%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.045	96	755724	86.742	ug/L #	62
13) Acetone	4.119	43	467868	183.459	ug/L	98
16) Methylene chloride	4.917	84	426798	37.148	ug/L	98
17) trans-1,2-Dichloroethene	5.417	96	231429	24.844	ug/L	96
18) Methyl tert-butyl Ether	5.417	73	254433	17.452	ug/L	99
20) cis-1,2-Dichloroethene	7.167	96	297258	30.816	ug/L	99
22) 2-Butanone	7.167	43	382779	98.564	ug/L	100
27) 1,2-Dichloroethane	8.398	62	413283	34.404	ug/L	99
31) Carbon tetrachloride	8.069	117	926860	71.436	ug/L	99
33) Benzene	8.325	78	2040176	50.774	ug/L	100
34) Trichloroethene	9.087	95	913780	88.532	ug/L	97
37) 1,2-Dichloropropane	9.368	63	506078	47.427	ug/L	100
38) Bromodichloromethane	9.642	83	680277	56.113	ug/L	96
39) cis-1,3-Dichloropropene	10.069	75	887978	57.801	ug/L	98
40) 4-Methyl-2-pentanone	10.209	43	1164944	144.642	ug/L	100
44) trans-1,3-Dichloropropene	10.605	75	477140	36.826	ug/L	96
45) 1,1,2-Trichloroethane	10.782	97	289117	38.821	ug/L	98
46) Tetrachloroethene	10.861	164	346658	47.310	ug/L	92
48) 2-Hexanone	10.965	43	495293	88.119	ug/L	96

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

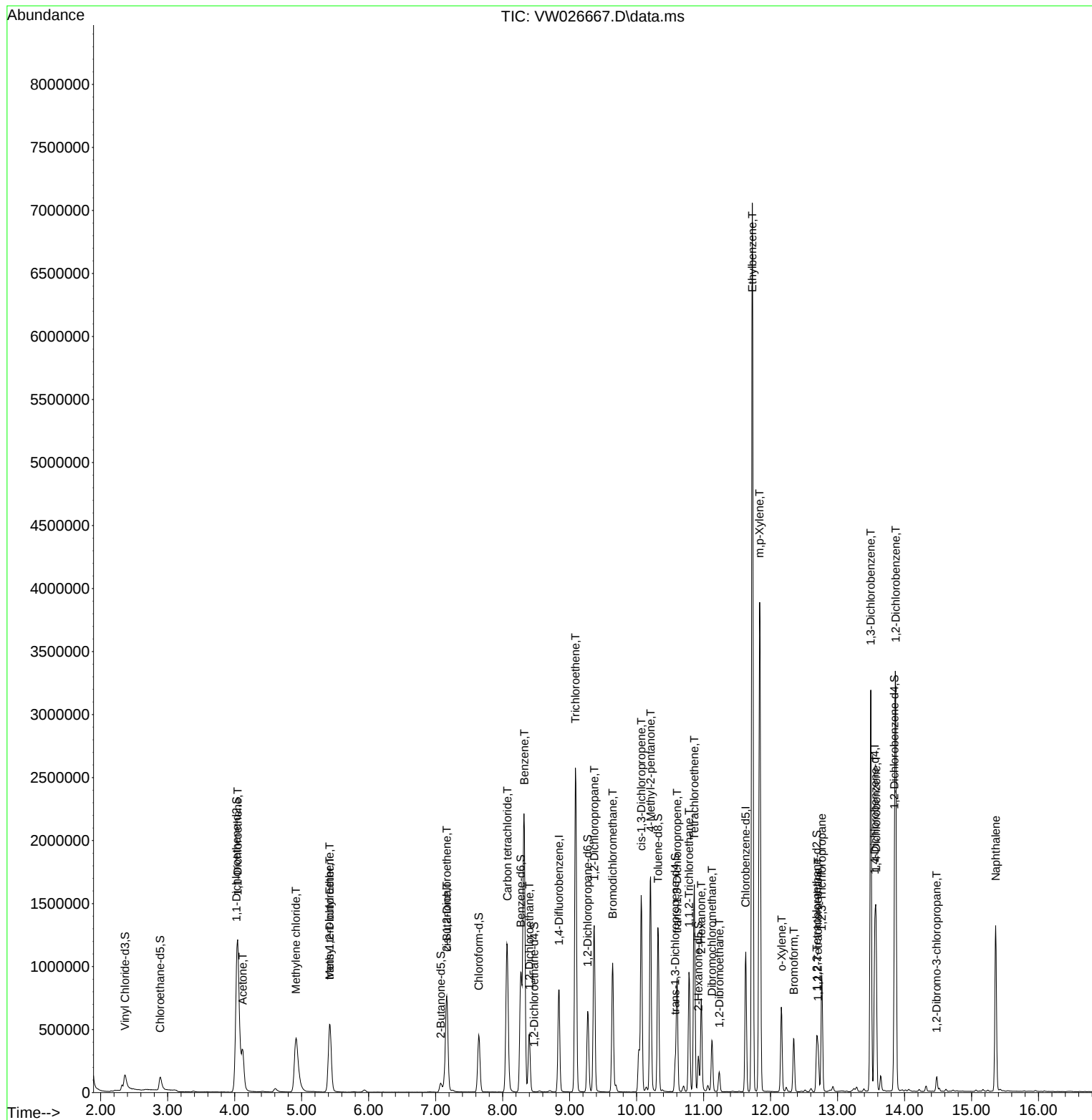
49) Dibromochloromethane	11.123	129	212653	28.837	ug/L	95
50) 1,2-Dibromoethane	11.233	107	105858	15.079	ug/L	99
52) Ethylbenzene	11.727	91	3620083	80.133	ug/L	98
53) m,p-Xylene	11.837	106	1162770	70.749	ug/L	91
54) o-Xylene	12.166	106	147416	9.556	ug/L	96
57) 1,1,2,2-Tetrachloroethane	12.709	83	148677	15.212	ug/L	97
59) Bromoform	12.349	173	188684	44.216	ug/L	99
61) 1,2,3-Trichloropropane	12.763	75	384422	52.752	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	1140708	65.122	ug/L	97
65) 1,4-Dichlorobenzene	13.574	146	449770	25.746	ug/L	96
67) 1,2-Dichlorobenzene	13.867	146	1140554	73.572	ug/L #	92
68) 1,2-Dibromo-3-chloropr...	14.476	75	32007	18.453	ug/L	94
71) Naphthalene	15.360	128	1051308	48.803	ug/L	100

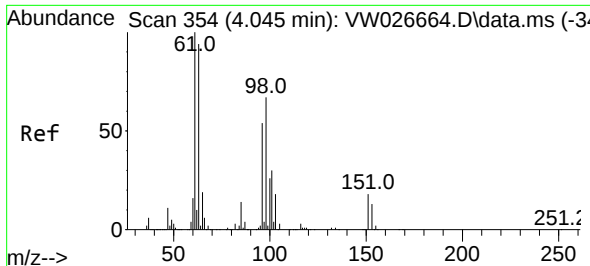
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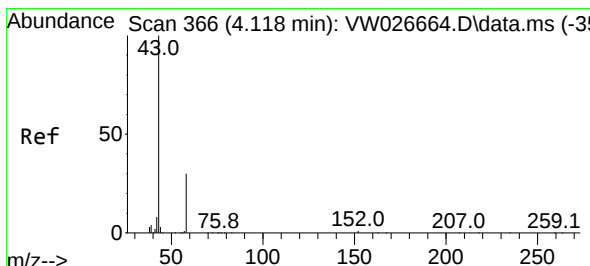
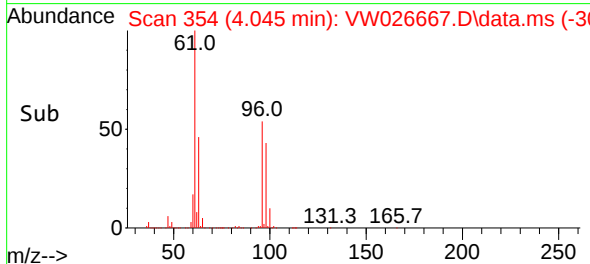
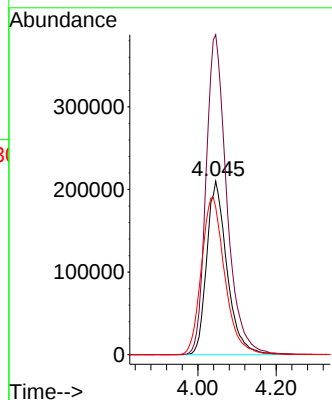
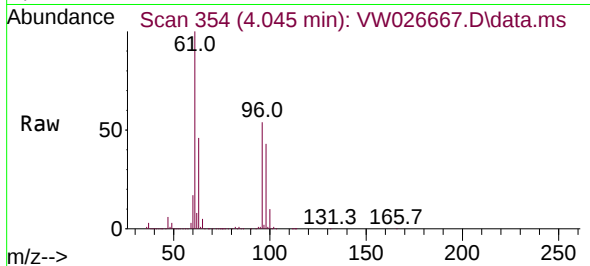




#12
1,1-Dichloroethene
Concen: 86.742 ug/L
RT: 4.045 min Scan# 354
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

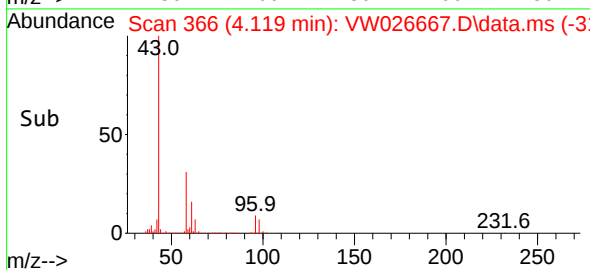
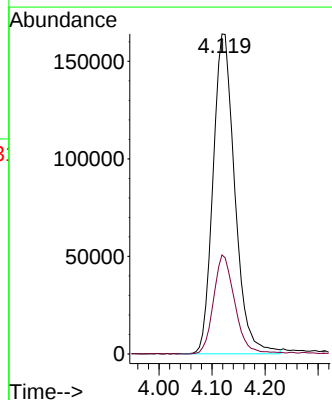
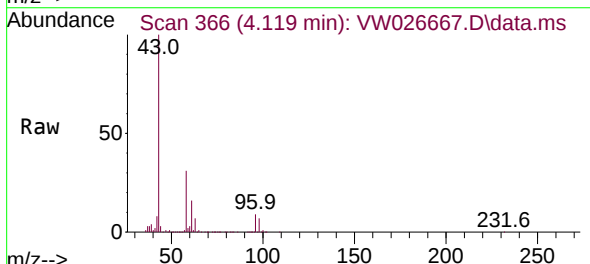
Instrument :
MSVOA_W
ClientSampleId :
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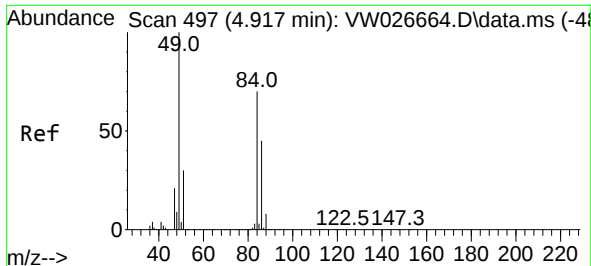
Tgt Ion: 96 Resp: 755724
Ion Ratio Lower Upper
96 100
61 184.5 140.8 261.4
63 84.9 127.7 237.3#



#13
Acetone
Concen: 183.459 ug/L
RT: 4.119 min Scan# 366
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

Tgt Ion: 43 Resp: 467868
Ion Ratio Lower Upper
43 100
58 30.3 0.0 63.2

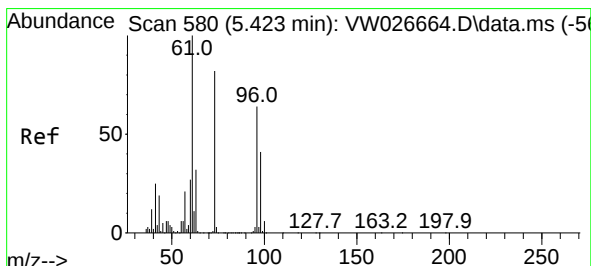
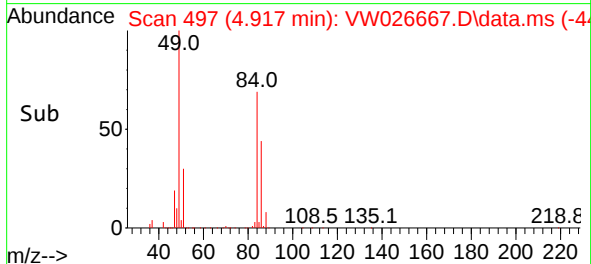
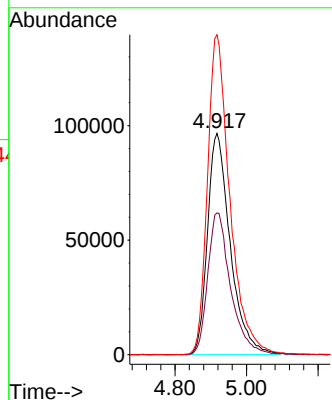
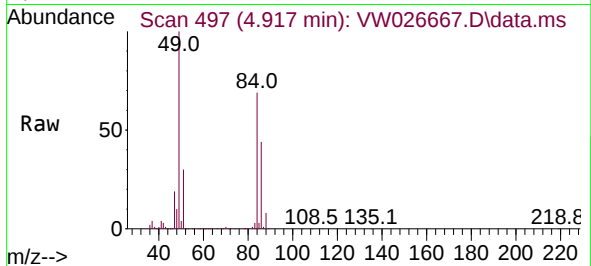




#16
Methylene chloride
Concen: 37.148 ug/L
RT: 4.917 min Scan# 49
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

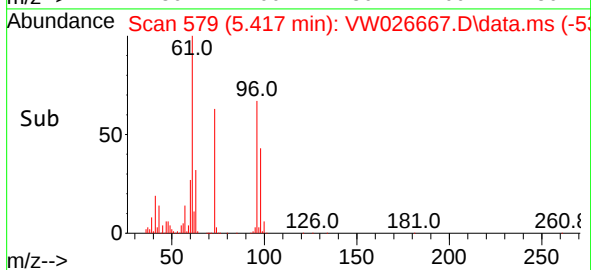
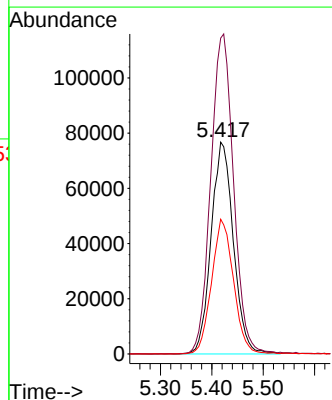
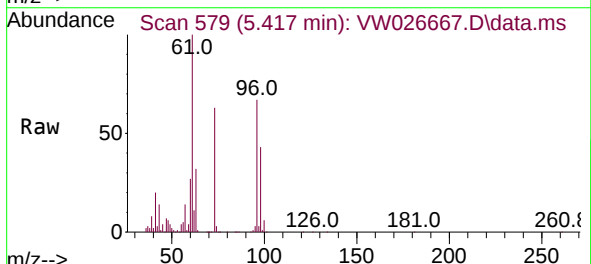
Instrument :
MSVOA_W
ClientSampleId :
X3H65

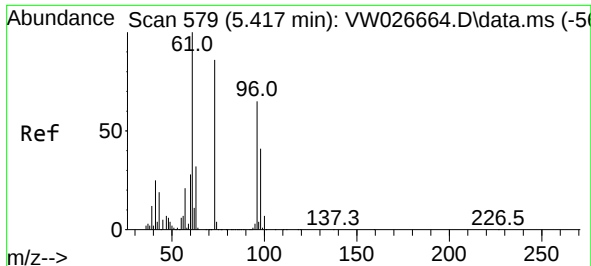
Tgt Ion: 84 Resp: 426798
Ion Ratio Lower Upper
84 100
86 64.1 43.8 81.3
49 144.6 99.2 184.2



#17
trans-1,2-Dichloroethene
Concen: 24.844 ug/L
RT: 5.417 min Scan# 579
Delta R.T. -0.006 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

Tgt Ion: 96 Resp: 231429
Ion Ratio Lower Upper
96 100
61 149.0 108.1 200.9
98 63.6 43.4 80.6

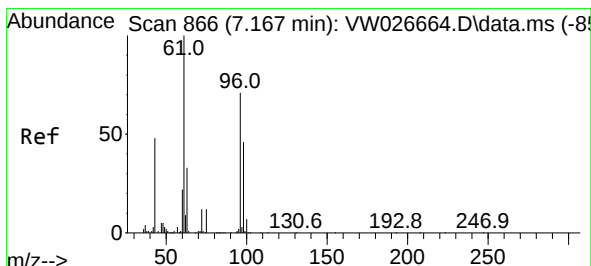
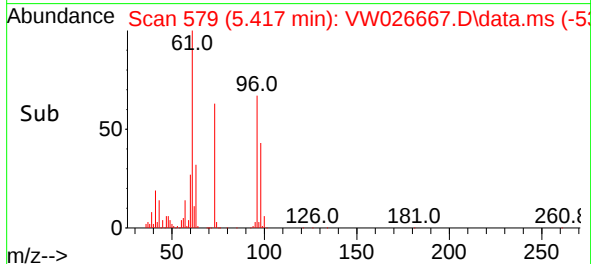
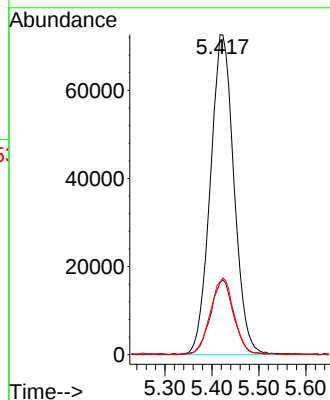
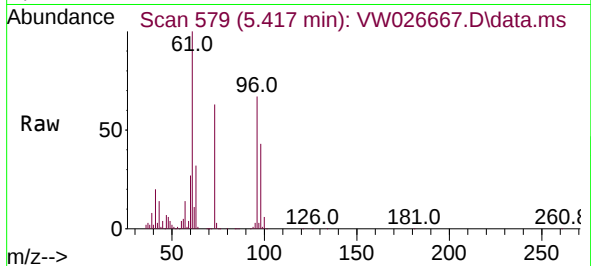




#18
Methyl tert-butyl Ether
Concen: 17.452 ug/L
RT: 5.417 min Scan# 579
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

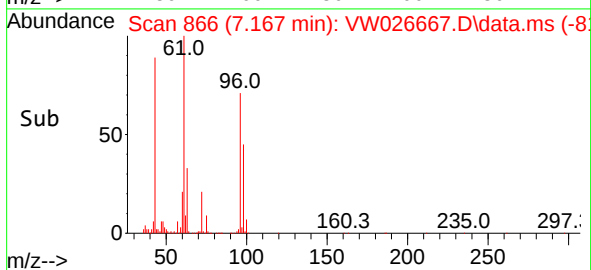
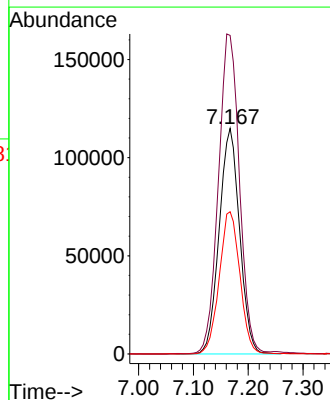
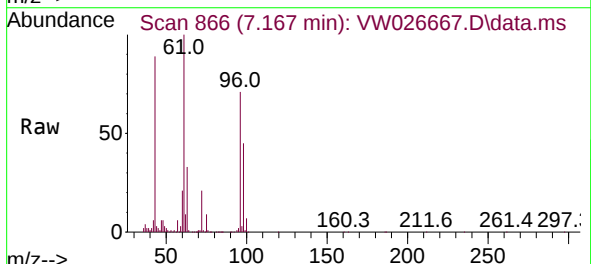
Instrument :
MSVOA_W
ClientSampleId :
X3H65

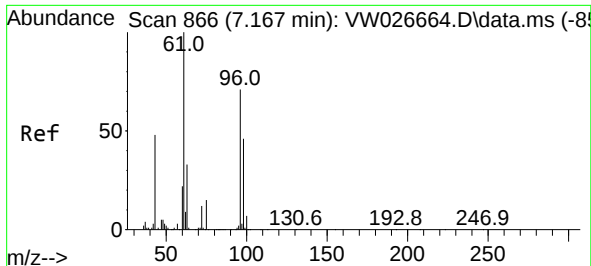
Tgt Ion: 73 Resp: 254433
Ion Ratio Lower Upper
73 100
43 22.6 17.4 26.2
57 23.8 19.3 28.9



#20
cis-1,2-Dichloroethene
Concen: 30.816 ug/L
RT: 7.167 min Scan# 866
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

Tgt Ion: 96 Resp: 297258
Ion Ratio Lower Upper
96 100
61 141.2 98.8 183.6
98 63.0 42.4 78.6

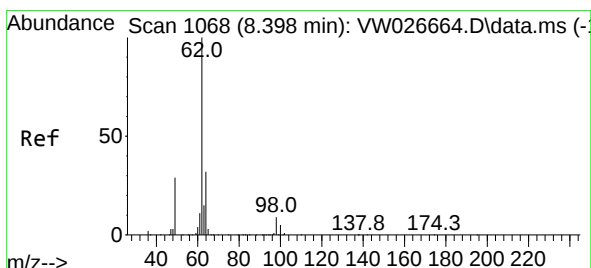
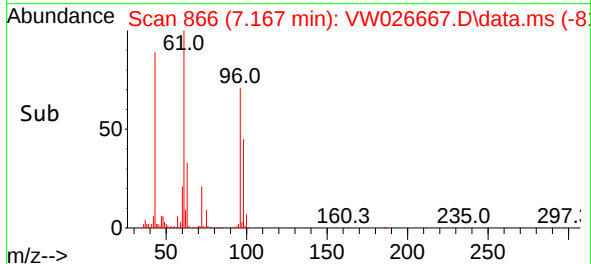
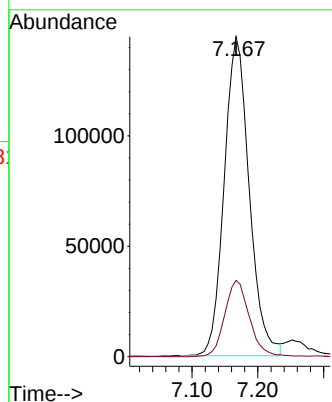
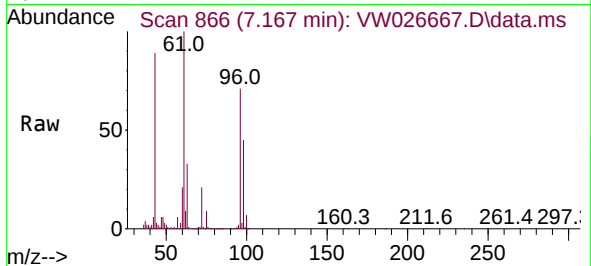




#22
2-Butanone
Concen: 98.564 ug/L
RT: 7.167 min Scan# 866
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

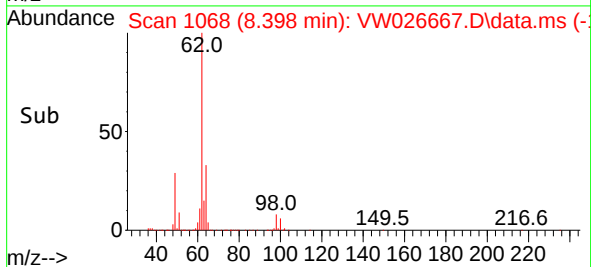
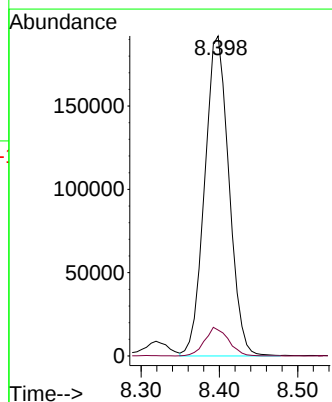
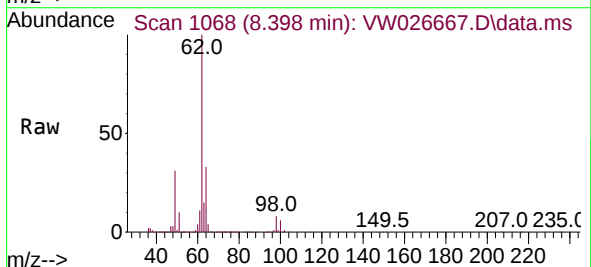
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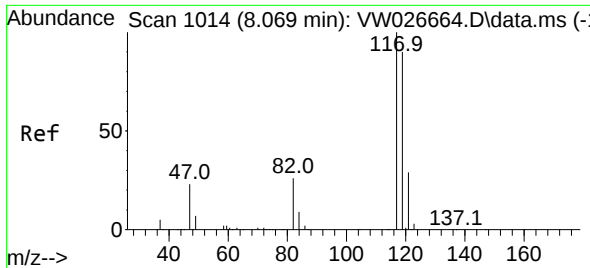
Tgt Ion: 43 Resp: 382779
Ion Ratio Lower Upper
43 100
72 23.6 11.9 35.5



#27
1,2-Dichloroethane
Concen: 34.404 ug/L
RT: 8.398 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

Tgt Ion: 62 Resp: 413283
Ion Ratio Lower Upper
62 100
98 8.1 6.7 10.1

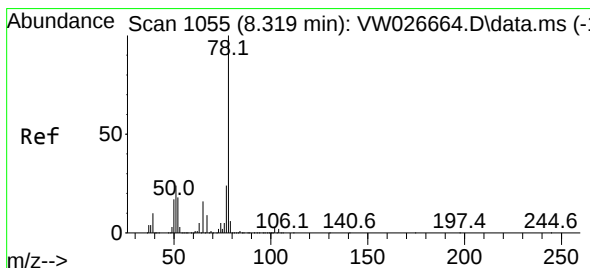
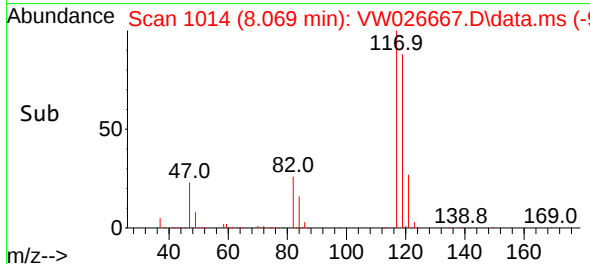
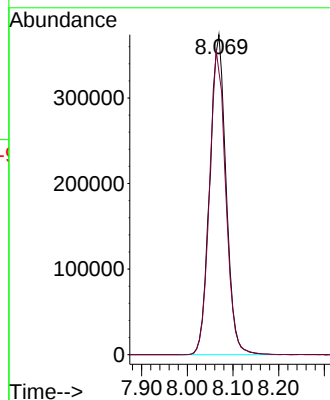
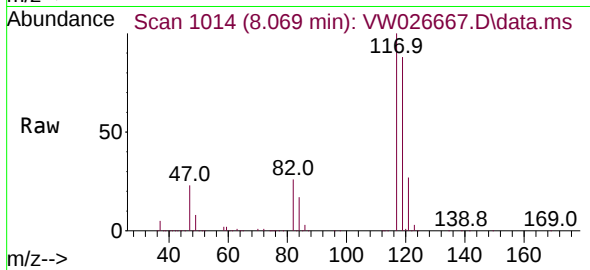




#31
Carbon tetrachloride
Concen: 71.436 ug/L
RT: 8.069 min Scan# 1014
Delta R.T. 0.000 min
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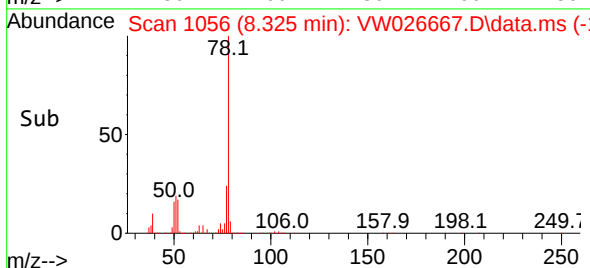
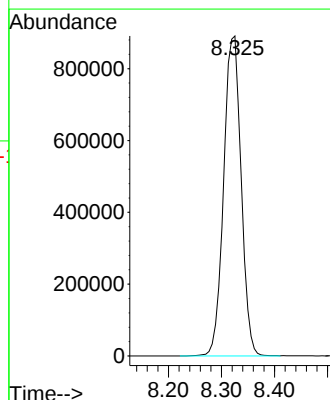
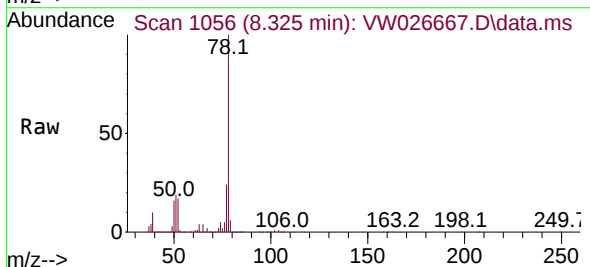
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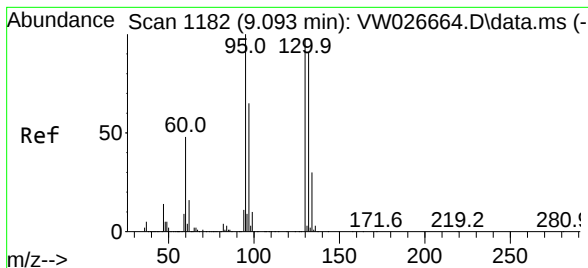
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Ion Ratio Lower Upper
117 100
119 95.0 77.1 115.7



#33
Benzene
Concen: 50.774 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

Tgt Ion: 78 Resp: 2040176





#34

Trichloroethene

Concen: 88.532 ug/L

RT: 9.087 min Scan# 1182

Delta R.T. -0.006 min

Lab File: VW026667.D

Acq: 28 Jul 2023 12:46

Instrument :

MSVOA_W

ClientSampleId :

X3H65

Tgt Ion: 95 Resp: 913780

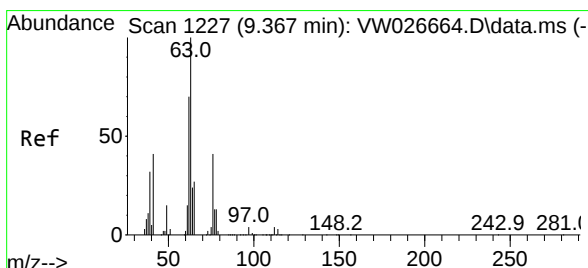
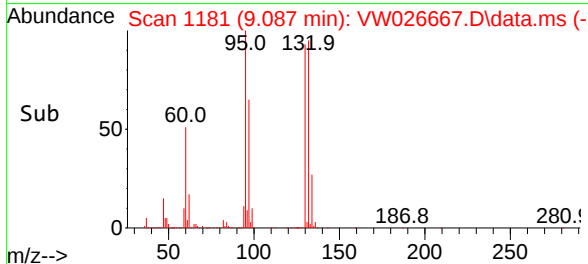
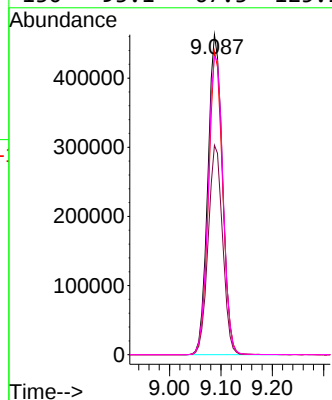
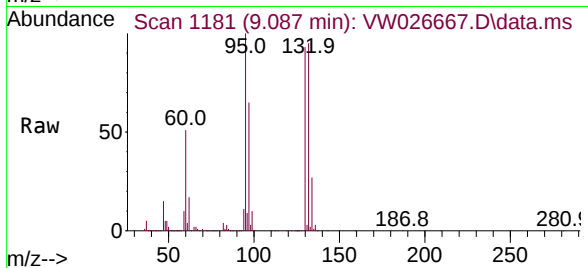
Ion Ratio Lower Upper

95 100

97 65.5 47.9 88.9

132 94.8 65.0 120.8

130 93.1 67.3 125.1



#37

1,2-Dichloropropane

Concen: 47.427 ug/L

RT: 9.368 min Scan# 1227

Delta R.T. 0.000 min

Lab File: VW026667.D

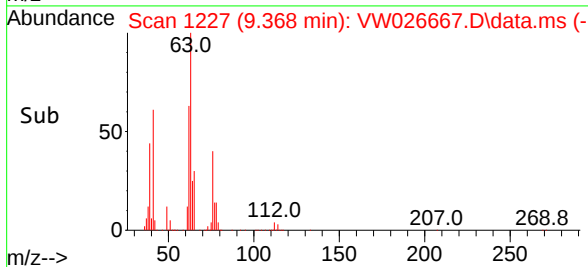
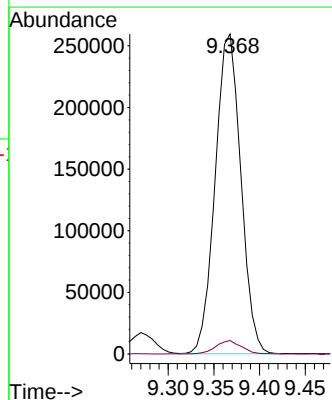
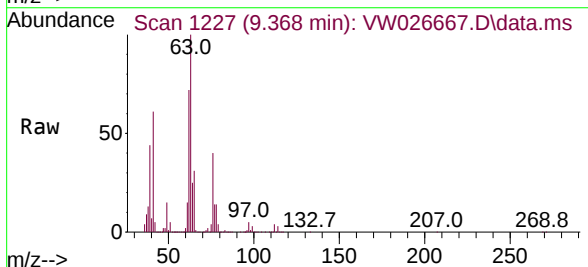
Acq: 28 Jul 2023 12:46

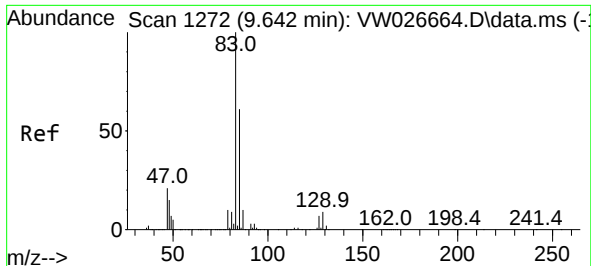
Tgt Ion: 63 Resp: 506078

Ion Ratio Lower Upper

63 100

112 4.1 3.4 5.2

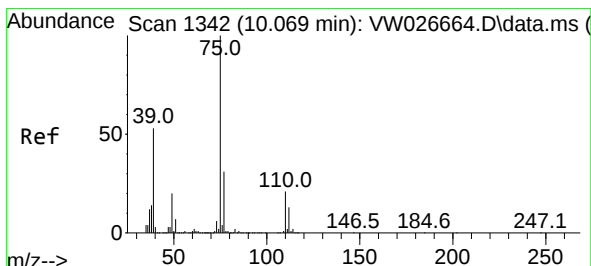
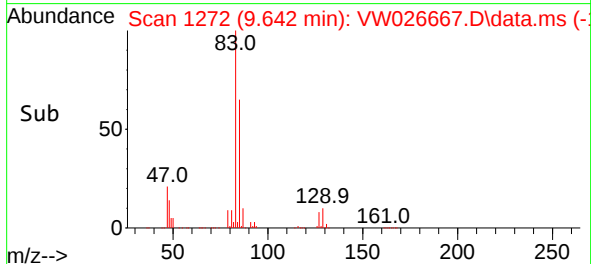
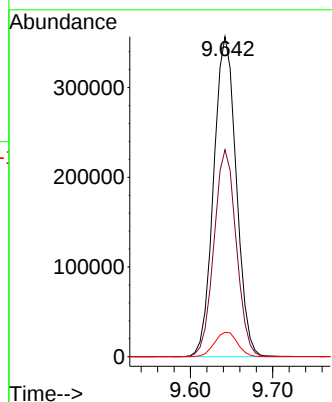
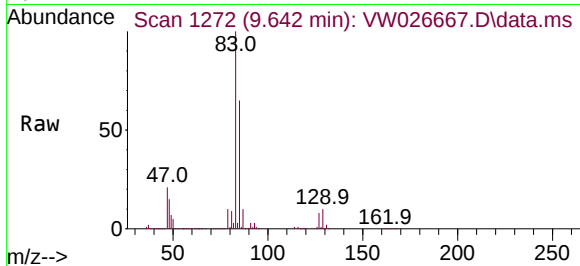




#38
Bromodichloromethane
Concen: 56.113 ug/L
RT: 9.642 min Scan# 1272
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

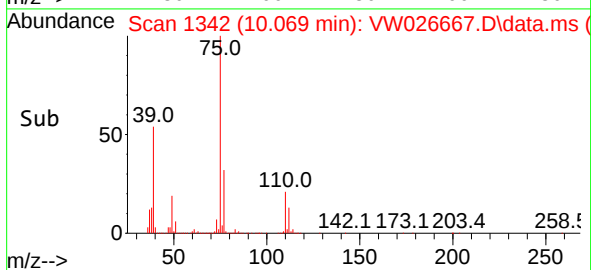
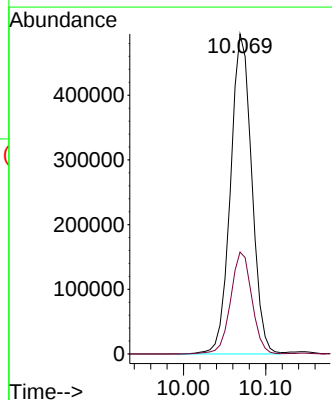
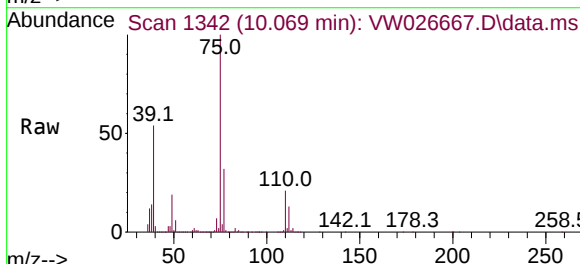
Instrument :
MSVOA_W
ClientSampleId :
X3H65

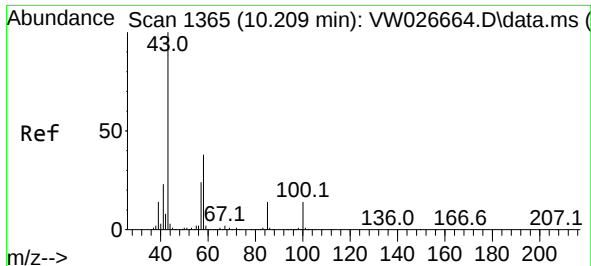
Tgt Ion: 83 Resp: 680277
Ion Ratio Lower Upper
83 100
85 64.6 43.3 80.3
127 7.6 6.6 10.0



#39
cis-1,3-Dichloropropene
Concen: 57.801 ug/L
RT: 10.069 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

Tgt Ion: 75 Resp: 887978
Ion Ratio Lower Upper
75 100
77 31.8 21.4 39.8

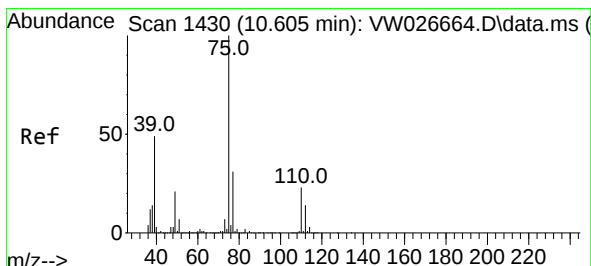
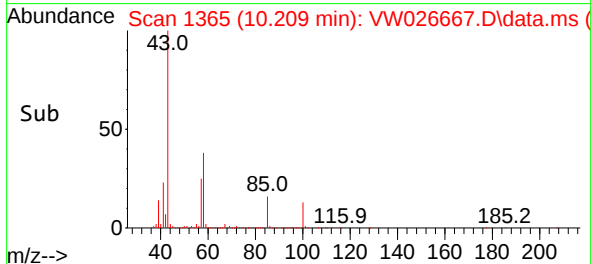
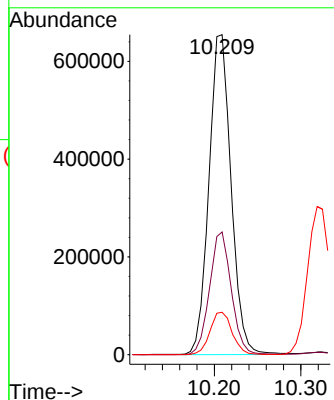
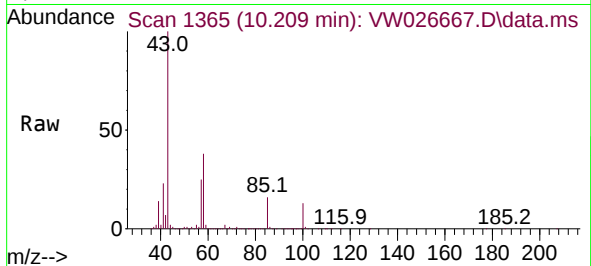




#40
4-Methyl-2-pentanone
Concen: 144.642 ug/L
RT: 10.209 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

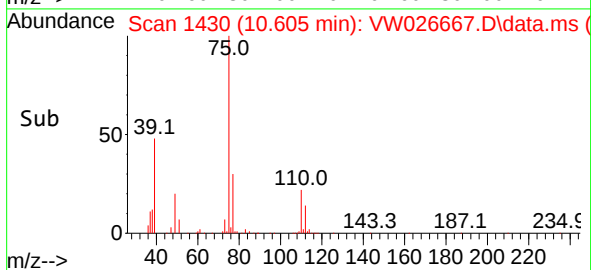
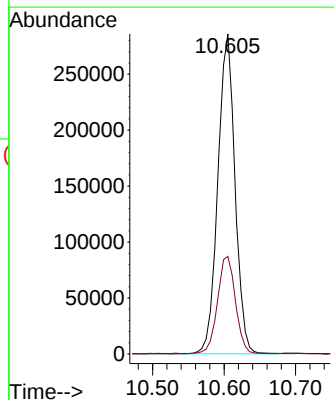
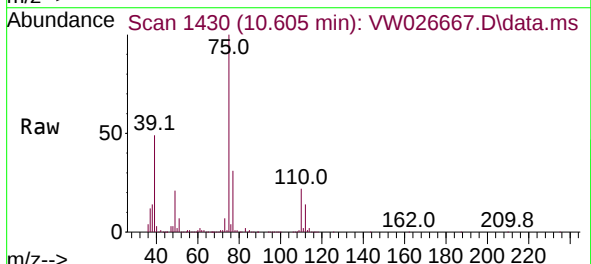
Instrument :
MSVOA_W
ClientSampleId :
X3H65

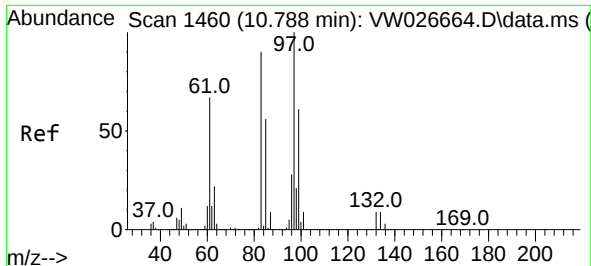
Tgt Ion: 43 Resp: 1164944
Ion Ratio Lower Upper
43 100
58 37.6 29.8 44.8
100 13.3 10.7 16.1



#44
trans-1,3-Dichloropropene
Concen: 36.826 ug/L
RT: 10.605 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

Tgt Ion: 75 Resp: 477140
Ion Ratio Lower Upper
75 100
77 30.5 23.0 42.6



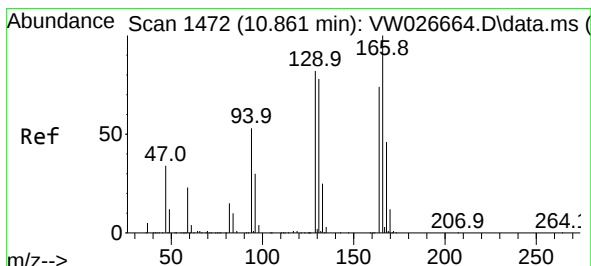
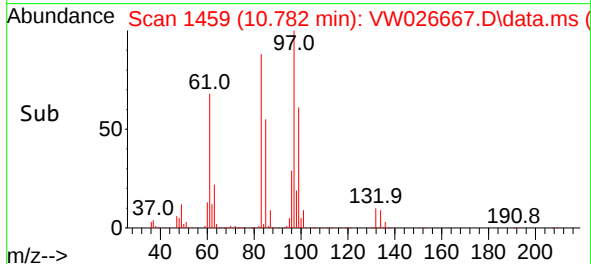
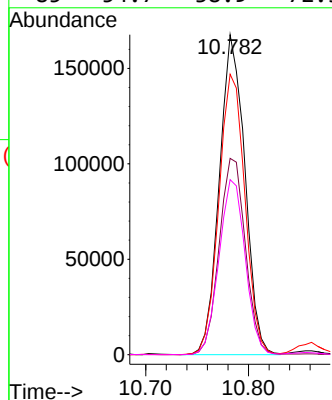
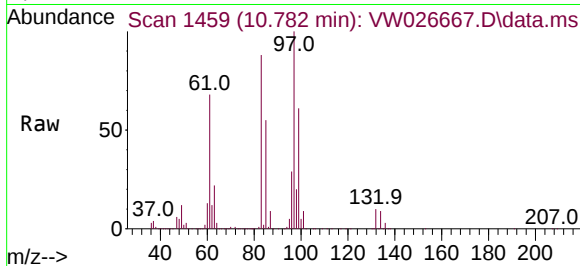


#45
1,1,2-Trichloroethane
Concen: 38.821 ug/L
RT: 10.782 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

Instrument :
MSVOA_W
ClientSampleId :
X3H65

Tgt Ion: 97 Resp: 289117

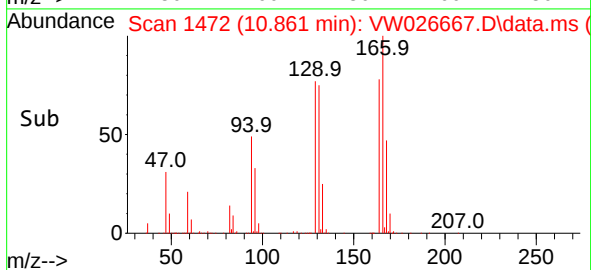
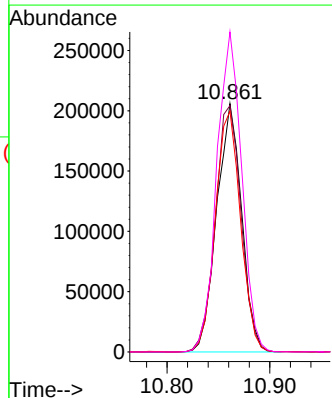
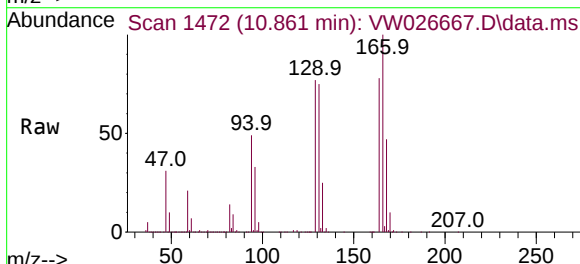
Ion	Ratio	Lower	Upper
97	100		
99	61.4	40.5	75.3
83	87.7	61.0	113.2
85	54.7	38.9	72.3

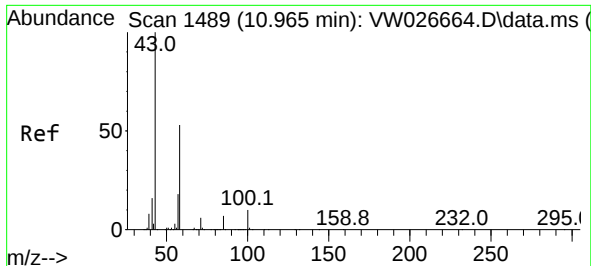


#46
Tetrachloroethene
Concen: 47.310 ug/L
RT: 10.861 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

Tgt Ion: 164 Resp: 346658

Ion	Ratio	Lower	Upper
164	100		
129	99.2	75.5	140.1
131	96.9	74.8	138.8
166	128.8	95.1	176.5

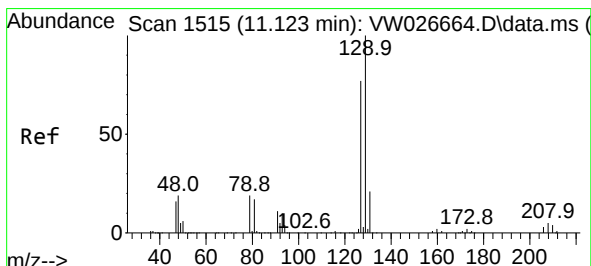
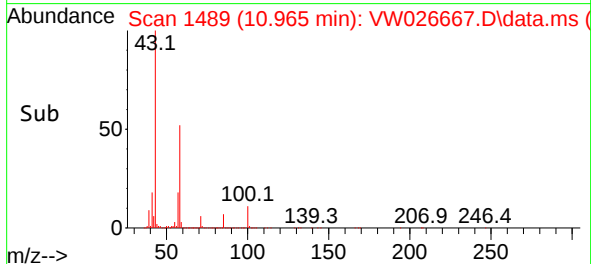
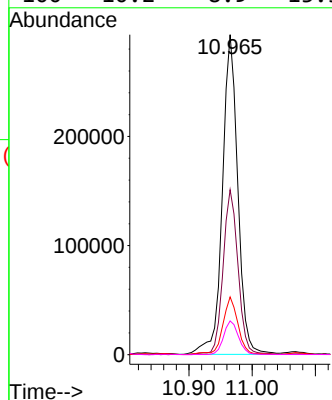
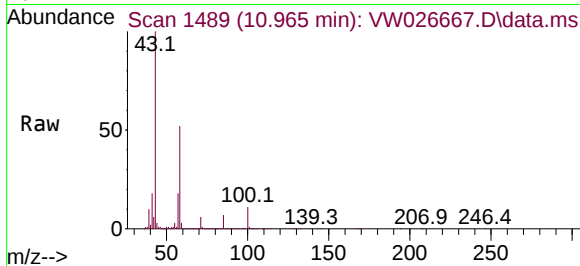




#48
2-Hexanone
Concen: 88.119 ug/L
RT: 10.965 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

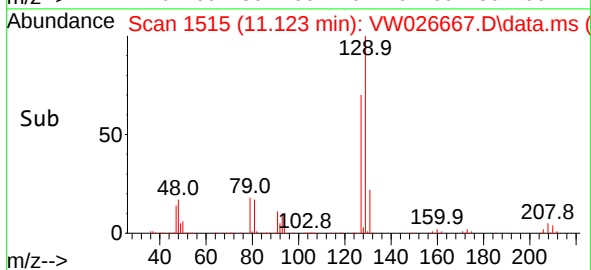
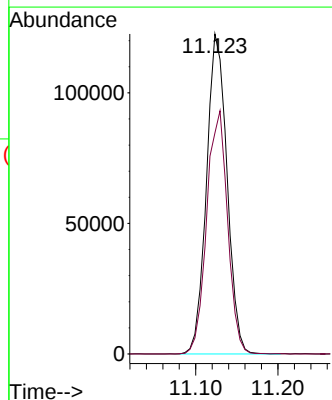
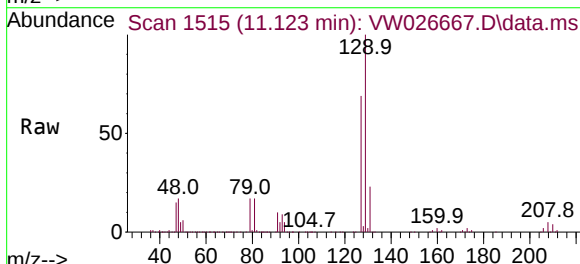
Instrument :
MSVOA_W
ClientSampleId :
X3H65

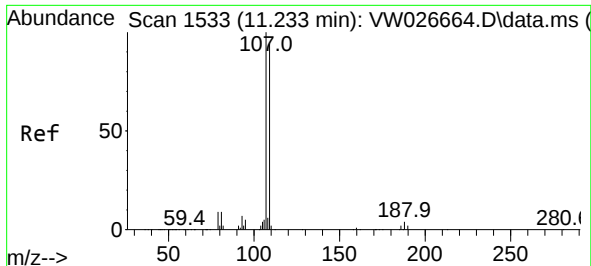
Tgt Ion:	43	Resp:	495293
Ion	Ratio	Lower	Upper
43	100		
58	49.5	42.1	63.1
57	17.2	14.8	22.2
100	10.2	8.9	13.3



#49
Dibromochloromethane
Concen: 28.837 ug/L
RT: 11.123 min Scan# 1515
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

Tgt Ion:	129	Resp:	212653
Ion	Ratio	Lower	Upper
129	100		
127	69.0	51.2	95.2





#50

1,2-Dibromoethane

Concen: 15.079 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. 0.000 min

Lab File: VW026667.D

Acq: 28 Jul 2023 12:46

Instrument :

MSVOA_W

ClientSampleId :

X3H65

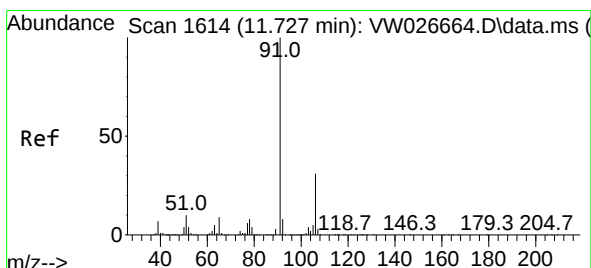
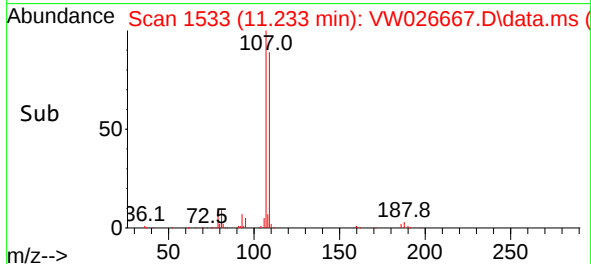
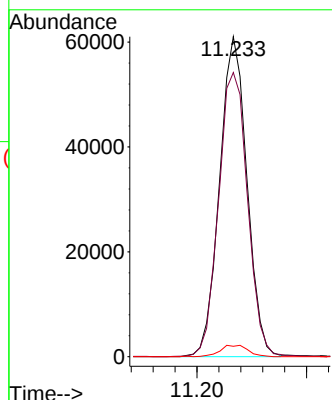
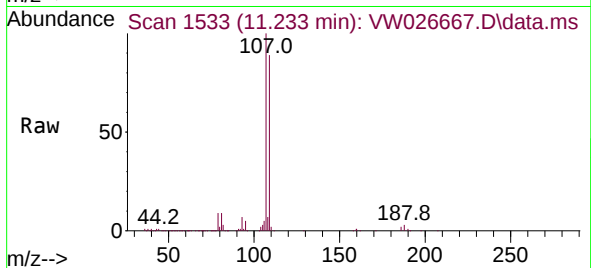
Tgt Ion:107 Resp: 105858

Ion Ratio Lower Upper

107 100

109 88.8 62.9 116.7

188 3.2 2.8 4.2



#52

Ethylbenzene

Concen: 80.133 ug/L

RT: 11.727 min Scan# 1614

Delta R.T. 0.000 min

Lab File: VW026667.D

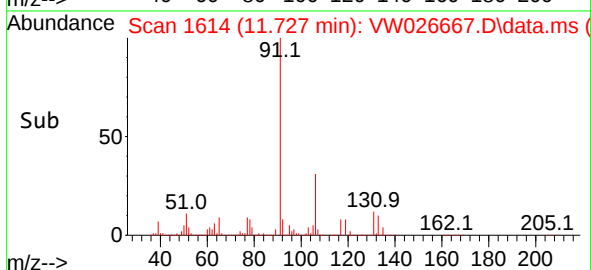
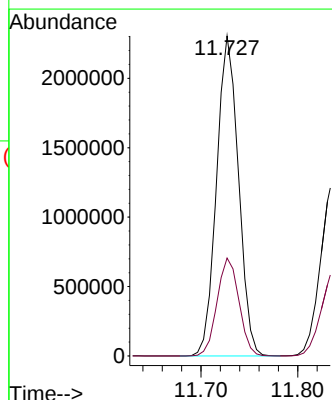
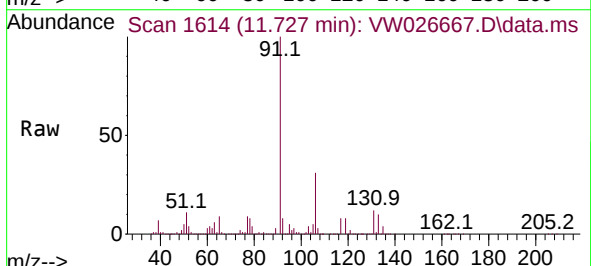
Acq: 28 Jul 2023 12:46

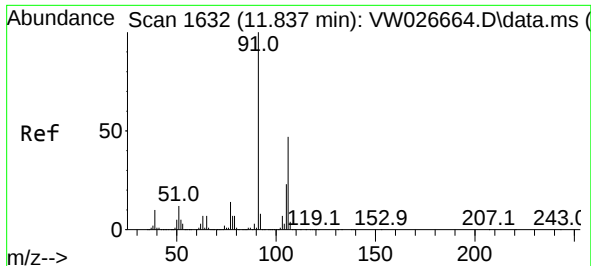
Tgt Ion: 91 Resp: 3620083

Ion Ratio Lower Upper

91 100

106 30.6 20.8 38.6

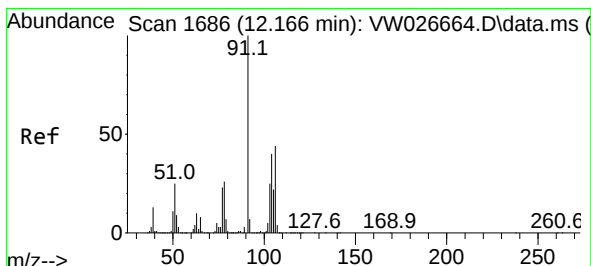
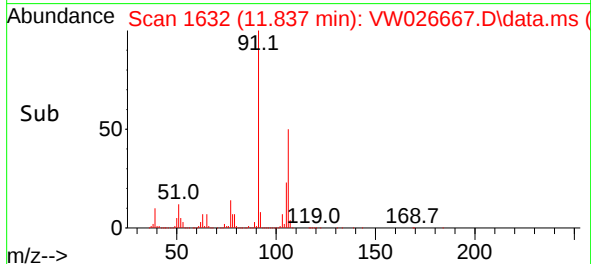
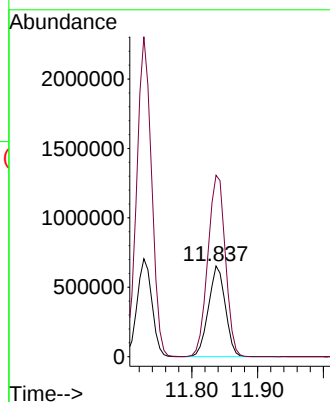
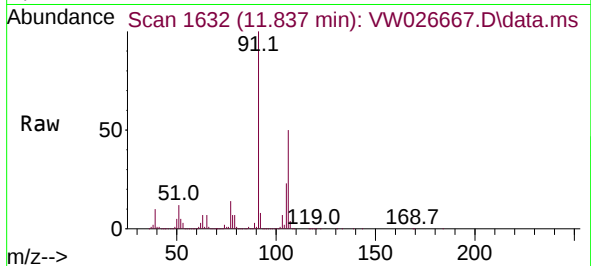




#53
m,p-Xylene
Concen: 70.749 ug/L
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

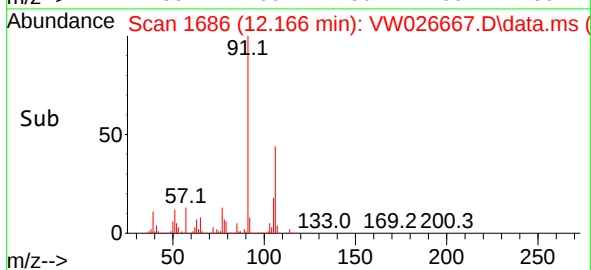
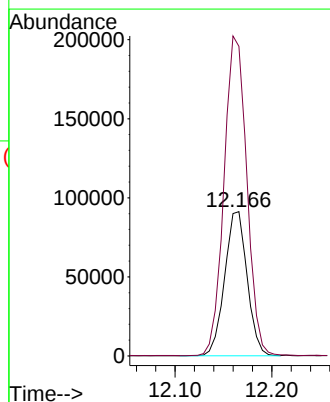
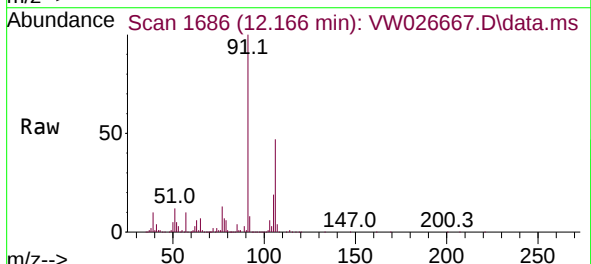
Instrument :
MSVOA_W
ClientSampleId :
X3H65

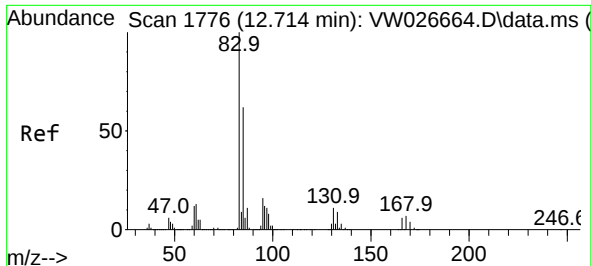
Tgt Ion:106 Resp: 1162770
Ion Ratio Lower Upper
106 100
91 200.1 150.3 279.1



#54
o-Xylene
Concen: 9.556 ug/L
RT: 12.166 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

Tgt Ion:106 Resp: 147416
Ion Ratio Lower Upper
106 100
91 214.4 154.3 286.5





#57

1,1,2,2-Tetrachloroethane

Concen: 15.212 ug/L

RT: 12.709 min Scan# 1

Delta R.T. -0.006 min

Lab File: VW026667.D

Acq: 28 Jul 2023 12:46

Instrument :

MSVOA_W

ClientSampleId :

X3H65

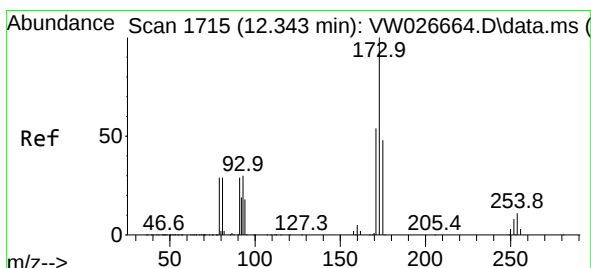
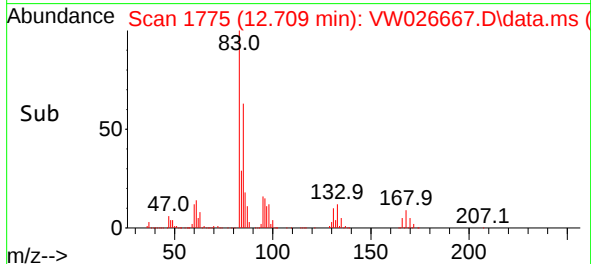
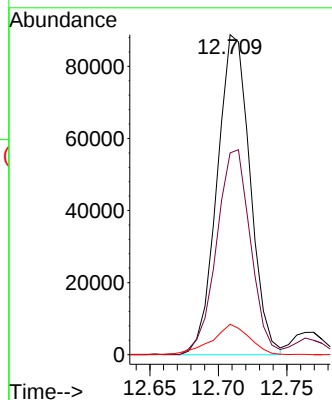
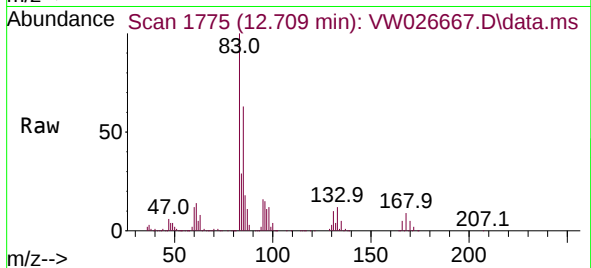
Tgt Ion: 83 Resp: 148677

Ion Ratio Lower Upper

83 100

85 63.1 46.2 85.8

131 9.5 7.2 10.8



#59

Bromoform

Concen: 44.216 ug/L

RT: 12.349 min Scan# 1716

Delta R.T. 0.006 min

Lab File: VW026667.D

Acq: 28 Jul 2023 12:46

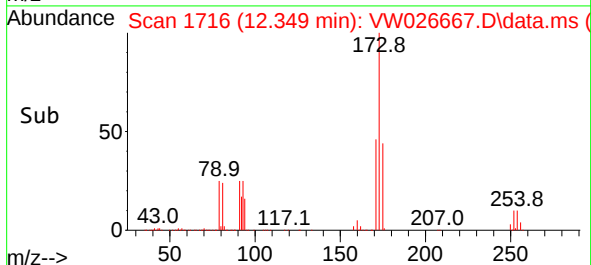
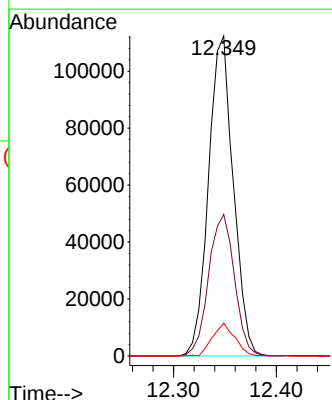
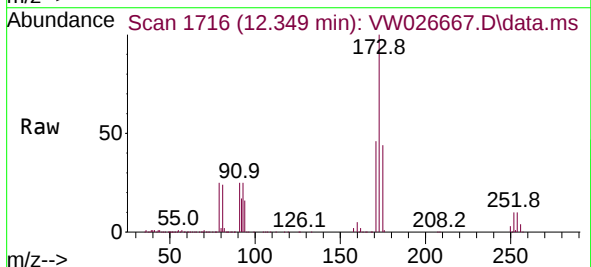
Tgt Ion:173 Resp: 188684

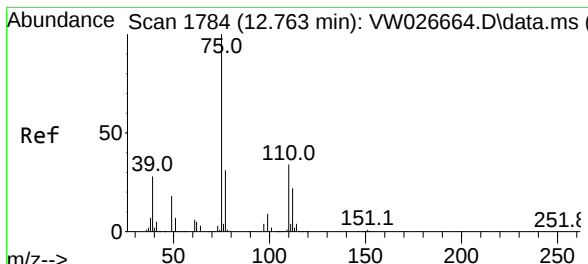
Ion Ratio Lower Upper

173 100

175 45.9 36.6 54.8

254 9.2 7.8 11.6



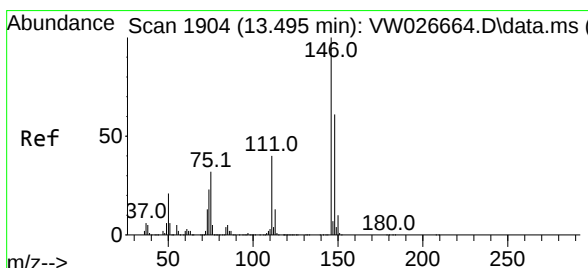
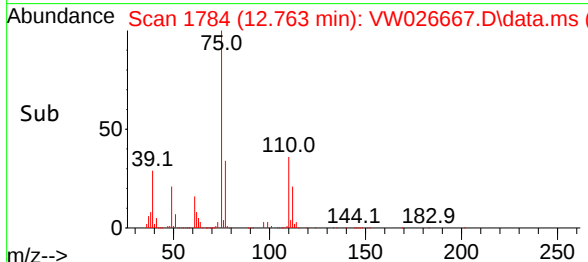
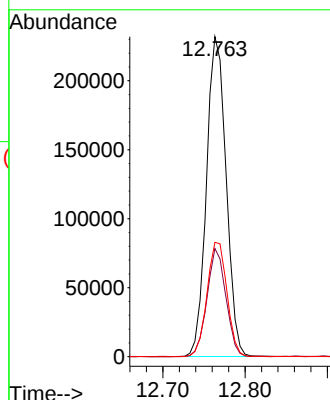
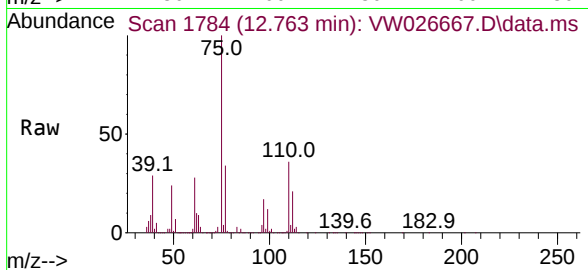


#61
 1,2,3-Trichloropropane
 Concen: 52.752 ug/L
 RT: 12.763 min Scan# 1784
 Delta R.T. 0.000 min
 Lab File: VW026667.D
 Acq: 28 Jul 2023 12:46

Instrument :
 MSVOA_W
 ClientSampleId :
 X3H65

Tgt Ion: 75 Resp: 384422

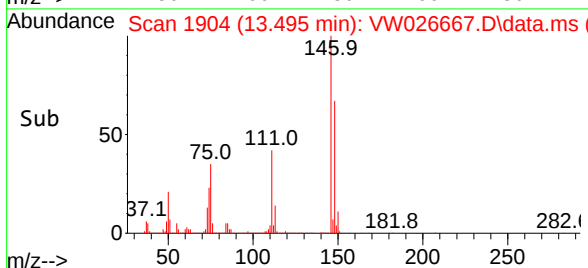
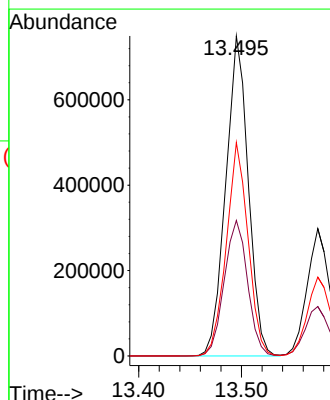
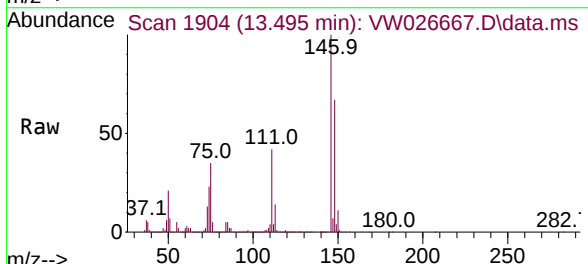
Ion	Ratio	Lower	Upper
75	100		
77	32.6	25.7	38.5
110	36.4	28.3	42.5

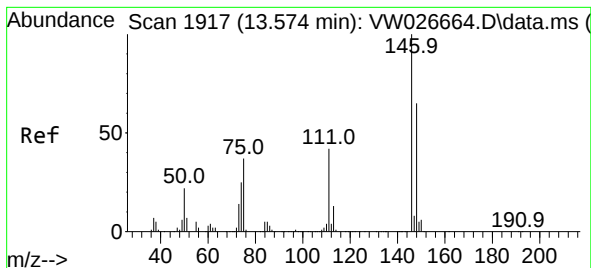


#64
 1,3-Dichlorobenzene
 Concen: 65.122 ug/L
 RT: 13.495 min Scan# 1904
 Delta R.T. 0.000 min
 Lab File: VW026667.D
 Acq: 28 Jul 2023 12:46

Tgt Ion: 146 Resp: 1140708

Ion	Ratio	Lower	Upper
146	100		
111	42.4	30.4	56.4
148	66.7	44.4	82.4

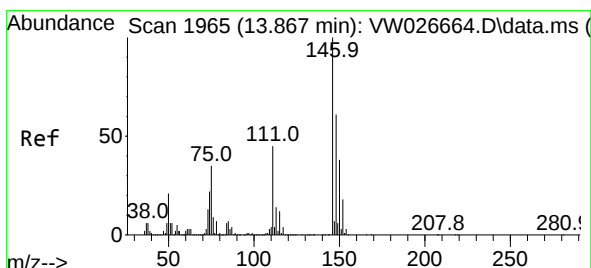
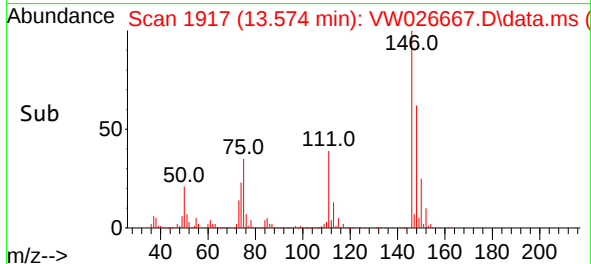
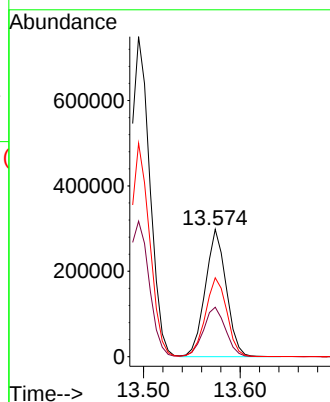
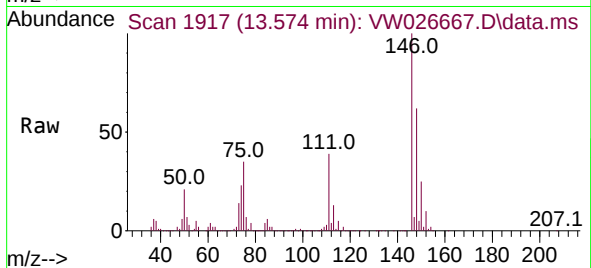




#65
1,4-Dichlorobenzene
Concen: 25.746 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

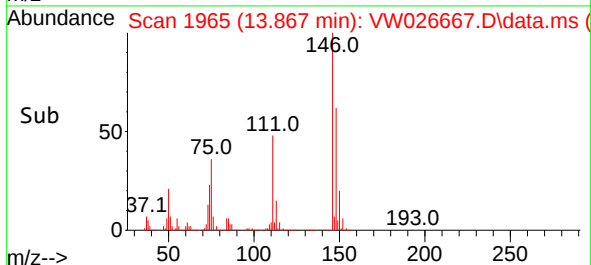
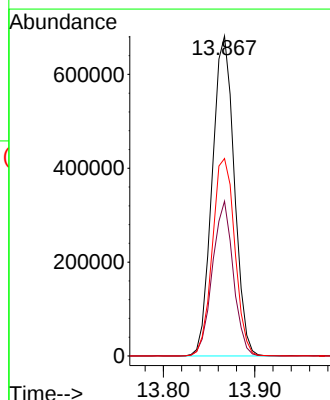
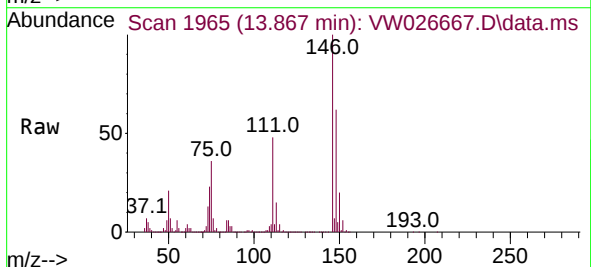
Instrument :
MSVOA_W
ClientSampleId :
X3H65

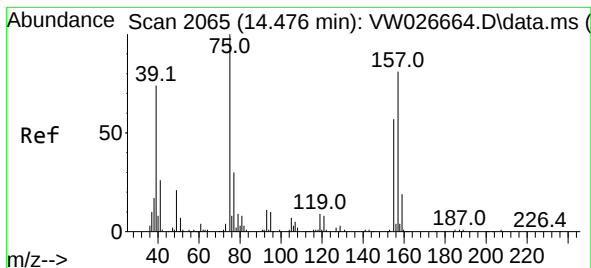
Tgt Ion:146 Resp: 449770
Ion Ratio Lower Upper
146 100
111 38.9 29.7 55.1
148 61.9 45.4 84.4



#67
1,2-Dichlorobenzene
Concen: 73.572 ug/L
RT: 13.867 min Scan# 1965
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

Tgt Ion:146 Resp: 1140554
Ion Ratio Lower Upper
146 100
111 48.3 31.8 47.8#
148 61.7 46.9 70.3

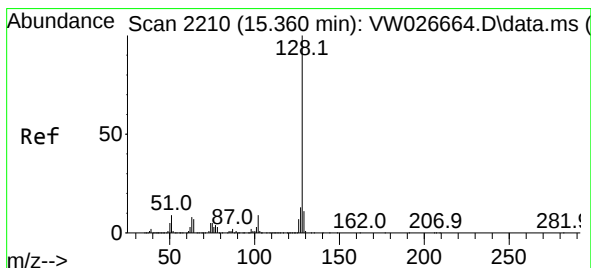
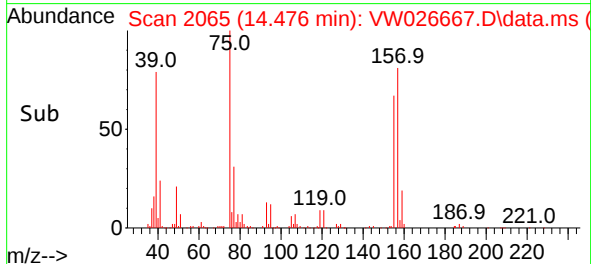
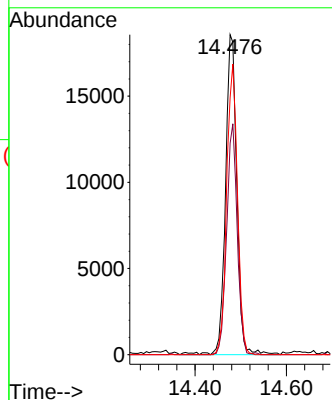
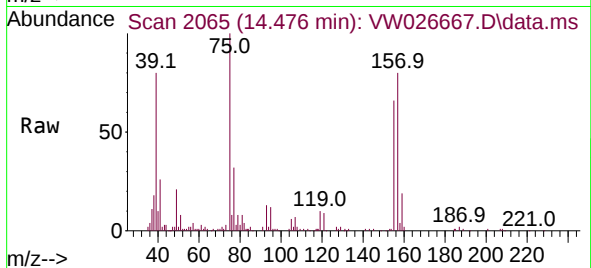




#68
1,2-Dibromo-3-chloropropane
Concen: 18.453 ug/L
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

Instrument :
MSVOA_W
ClientSampleId :
X3H65

Tgt Ion: 75 Resp: 32007
Ion Ratio Lower Upper
75 100
155 66.1 49.1 73.7
157 80.3 60.6 90.8



#71
Naphthalene
Concen: 48.803 ug/L
RT: 15.360 min Scan# 2210
Delta R.T. 0.000 min
Lab File: VW026667.D
Acq: 28 Jul 2023 12:46

Tgt Ion: 128 Resp: 1051308
Ion Ratio Lower Upper
128 100
127 13.1 10.6 16.0
129 10.8 8.7 13.1

