

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081622\
 Data File : VW024251.D
 Acq On : 16 Aug 2022 13:34
 Operator : SY/VA
 Sample : N4181-06
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 X3C31

Quant Time: Aug 17 01:02:03 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM080422SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Aug 17 01:00:38 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.835	114	274992	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.628	117	267131	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	151660	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.343	65	93496	16.266	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	65.080%
7) Chloroethane-d5	2.867	69	66085	18.456	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	73.840%
11) 1,1-Dichloroethene-d2	4.013	63	130596	19.936	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	79.760%
21) 2-Butanone-d5	7.073	46	56651	52.975	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	105.960%
24) Chloroform-d	7.640	84	171120	20.566	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	82.280%
26) 1,2-Dichloroethane-d4	8.299	65	99839	21.612	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	86.440%
32) Benzene-d6	8.268	84	313390	19.892	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	79.560%
36) 1,2-Dichloropropane-d6	9.268	67	96301	20.703	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	82.800%
41) Toluene-d8	10.323	98	275477	18.708	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	74.840%
43) trans-1,3-Dichloroprop...	10.573	79	41823	20.528	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	82.120%
47) 2-Hexanone-d5	10.920	63	44581	51.889	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.780%
56) 1,1,2,2-Tetrachloroeth...	12.688	84	104213	23.092	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	92.360%
66) 1,2-Dichlorobenzene-d4	13.853	152	112893	20.342	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	81.360%
Target Compounds						
					Qvalue	
3) Chloromethane	2.208	50	87768	19.343	ug/L	99
6) Bromomethane	2.757	94	35310	9.750	ug/L	95
9) Trichlorofluoromethane	3.239	101	39295	13.124	ug/L	96
12) 1,1-Dichloroethene	4.025	96	74105	22.416	ug/L	97
13) Acetone	4.123	43	40928	51.983	ug/L	67
15) Methyl Acetate	4.665	43	70476	39.741	ug/L	95
16) Methylene chloride	4.903	84	57570	11.872	ug/L	93
17) trans-1,2-Dichloroethene	5.415	96	42386	11.102	ug/L	96
18) Methyl tert-butyl Ether	5.421	73	201017	36.924	ug/L	98
20) cis-1,2-Dichloroethene	7.165	96	114226	27.243	ug/L #	95
23) Bromochloromethane	7.512	128	31979	15.315	ug/L	97
27) 1,2-Dichloroethane	8.396	62	54928	11.015	ug/L	98
29) Cyclohexane	7.945	56	58064	10.602	ug/L	97
30) 1,1,1-Trichloroethane	7.866	97	65220	10.826	ug/L	99
31) Carbon tetrachloride	8.061	117	74561	13.119	ug/L	100
34) Trichloroethene	9.085	95	180260	43.226	ug/L	95
35) Methylcyclohexane	9.329	83	189894	29.038	ug/L	98
37) 1,2-Dichloropropane	9.366	63	53022	13.595	ug/L	99
38) Bromodichloromethane	9.640	83	116540	21.305	ug/L	99

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

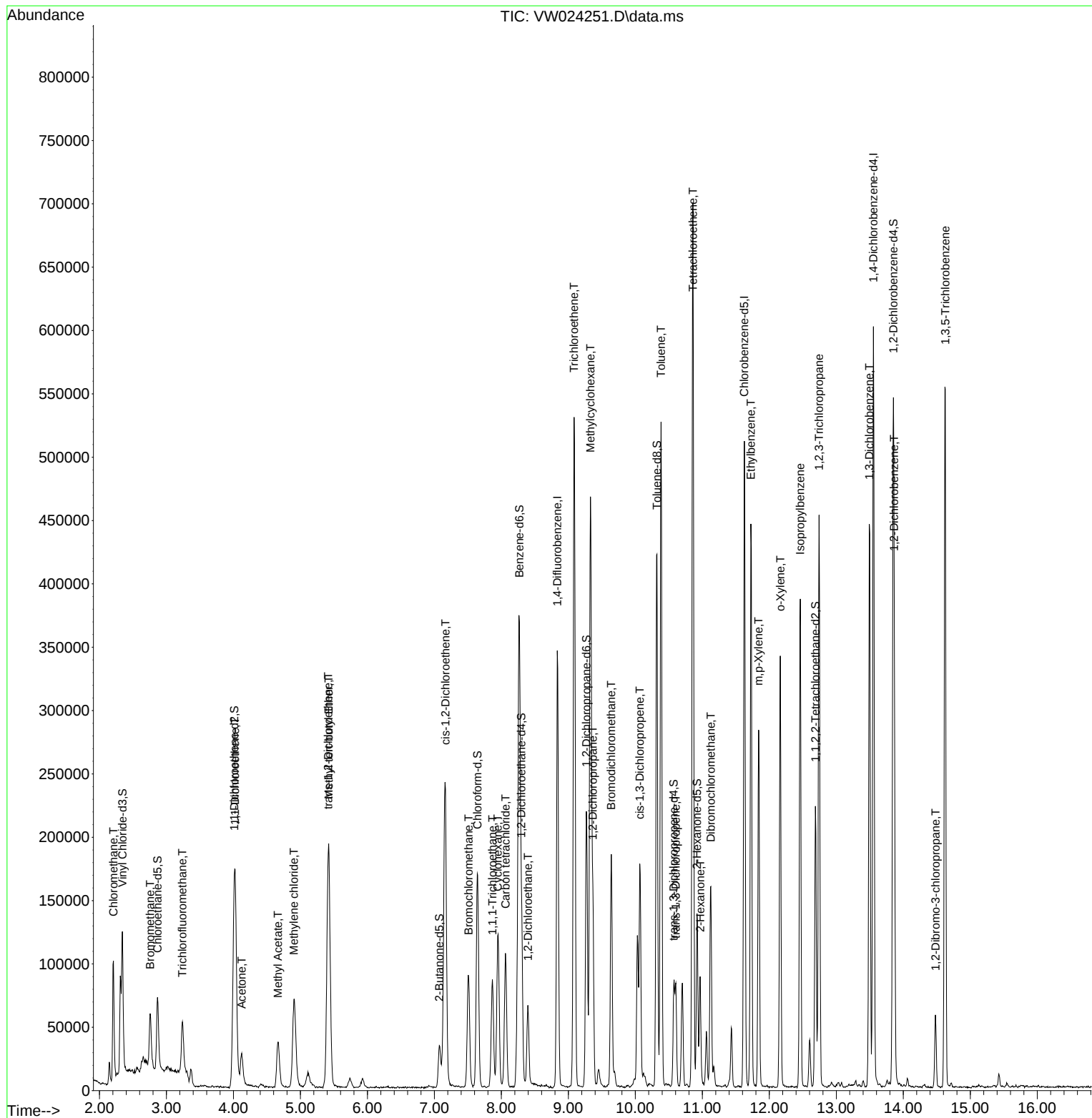
39) cis-1,3-Dichloropropene	10.067	75	99468	17.336	ug/L	98
42) Toluene	10.384	91	376460	22.454	ug/L	97
44) trans-1,3-Dichloropropene	10.603	75	41957	8.003	ug/L	94
46) Tetrachloroethene	10.859	164	149459	44.270	ug/L	98
48) 2-Hexanone	10.969	43	51918	29.556	ug/L	96
49) Dibromochloromethane	11.128	129	81702	20.645	ug/L	93
52) Ethylbenzene	11.725	91	302748	16.482	ug/L	100
53) m,p-Xylene	11.841	106	77306	10.812	ug/L	90
54) o-Xylene	12.164	106	86695	12.834	ug/L	99
60) Isopropylbenzene	12.463	105	235610	12.833	ug/L	99
61) 1,2,3-Trichloropropane	12.743	75	17881	5.924	ug/L #	1
64) 1,3-Dichlorobenzene	13.493	146	179254	19.939	ug/L	92
67) 1,2-Dichlorobenzene	13.865	146	89506	10.484	ug/L	94
68) 1,2-Dibromo-3-chloropr...	14.481	75	12828	18.191	ug/L	90
69) 1,3,5-Trichlorobenzene	14.627	180	161528	27.400	ug/L	98

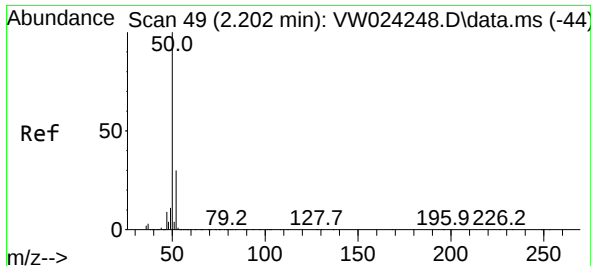
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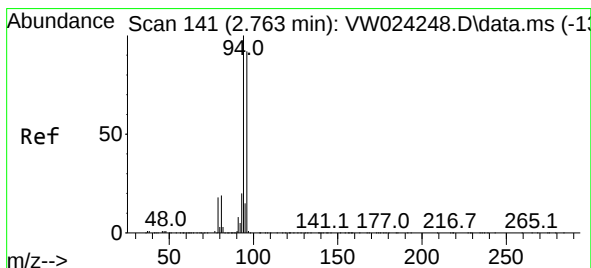
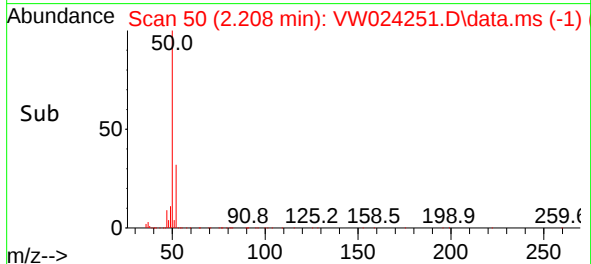
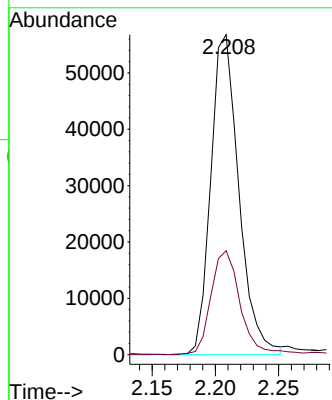
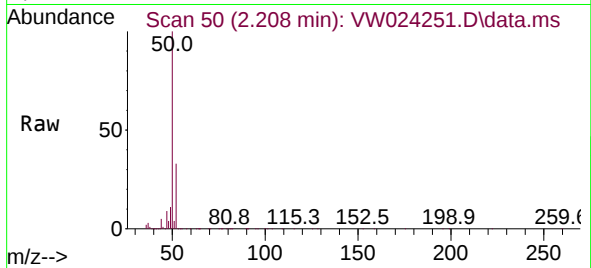




#3
Chloromethane
Concen: 19.343 ug/L
RT: 2.208 min Scan# 50
Delta R.T. 0.006 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

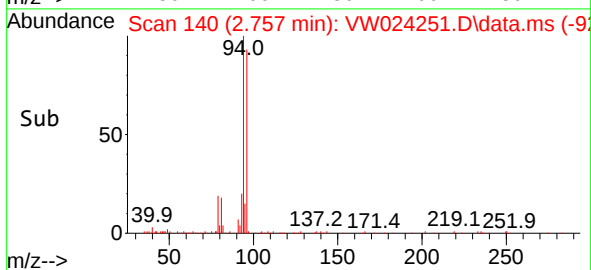
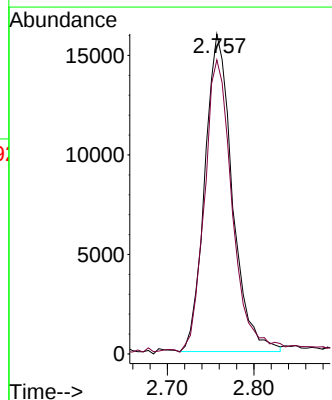
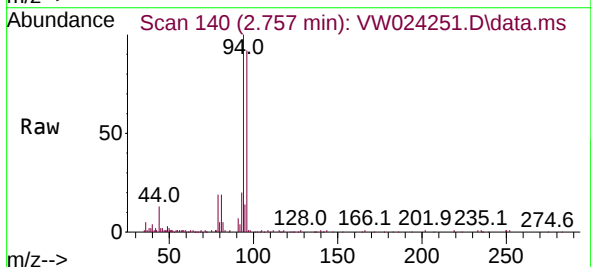
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ClientSampleId :
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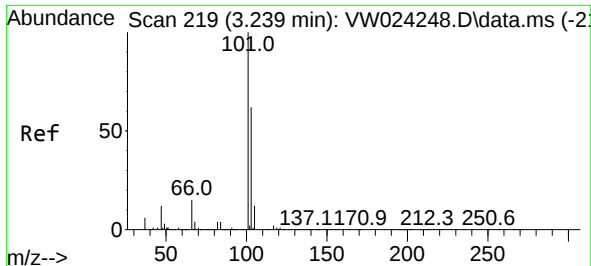
Tgt Ion: 50 Resp: 87768
Ion Ratio Lower Upper
50 100
52 32.5 23.2 43.2



#6
Bromomethane
Concen: 9.750 ug/L
RT: 2.757 min Scan# 140
Delta R.T. -0.006 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

Tgt Ion: 94 Resp: 35310
Ion Ratio Lower Upper
94 100
96 91.9 61.0 113.4

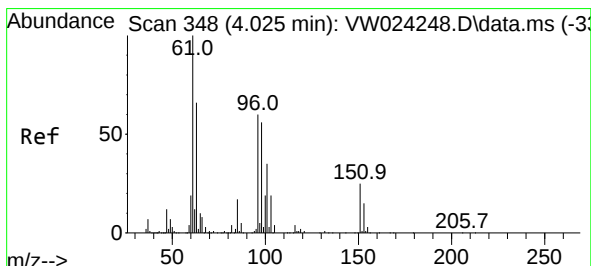
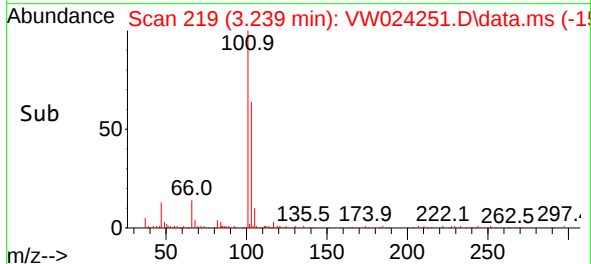
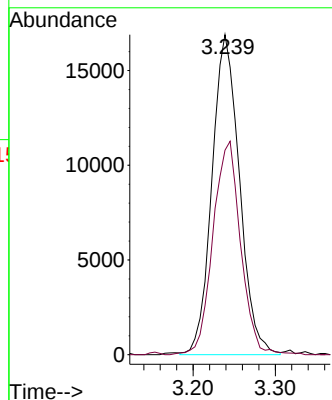
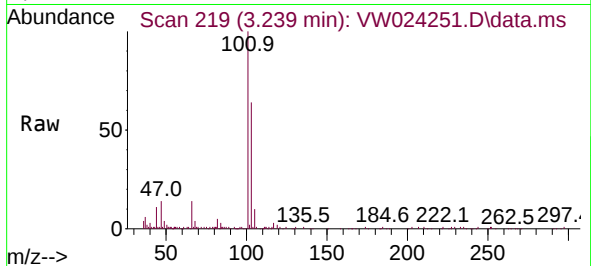




#9
 Trichlorofluoromethane
 Concen: 13.124 ug/L
 RT: 3.239 min Scan# 219
 Delta R.T. 0.000 min
 Lab File: VW024251.D
 Acq: 16 Aug 2022 13:34

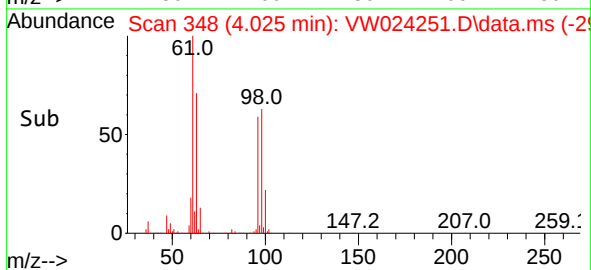
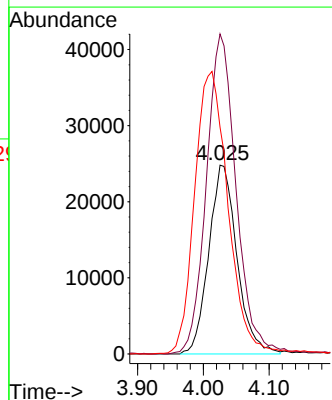
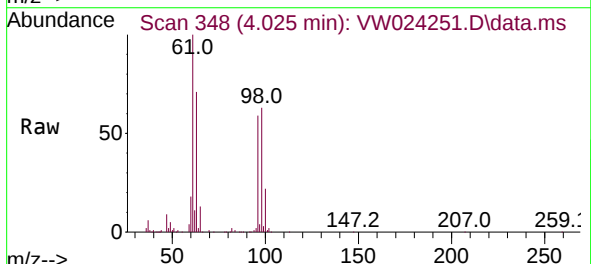
Instrument :
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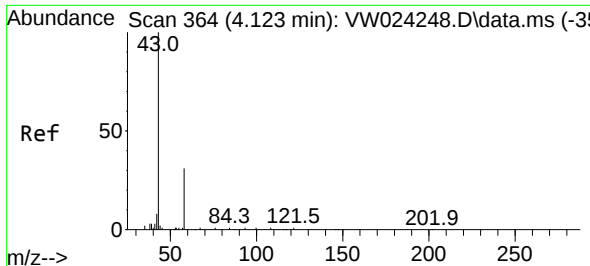
Tgt Ion:101 Resp: 39295
 Ion Ratio Lower Upper
 101 100
 103 66.2 50.5 75.7



#12
 1,1-Dichloroethene
 Concen: 22.416 ug/L
 RT: 4.025 min Scan# 348
 Delta R.T. 0.000 min
 Lab File: VW024251.D
 Acq: 16 Aug 2022 13:34

Tgt Ion: 96 Resp: 74105
 Ion Ratio Lower Upper
 96 100
 61 169.5 123.1 228.5
 63 120.1 84.9 157.7





#13

Acetone

Concen: 51.983 ug/L

RT: 4.123 min Scan# 364

Delta R.T. 0.000 min

Lab File: VW024251.D

Acq: 16 Aug 2022 13:34

Instrument :

MSVOA_W

ClientSampleId :

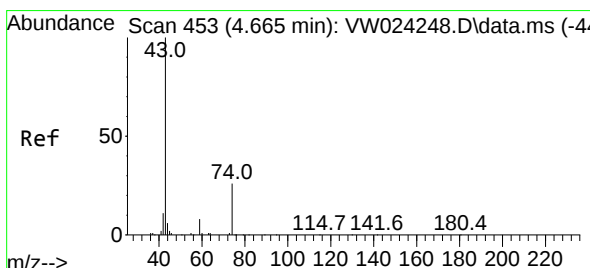
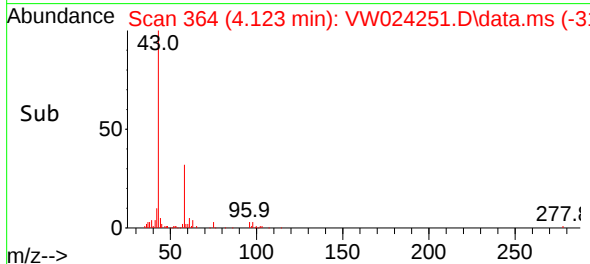
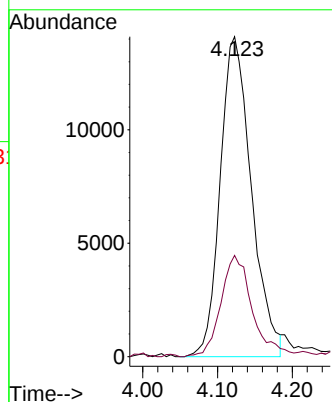
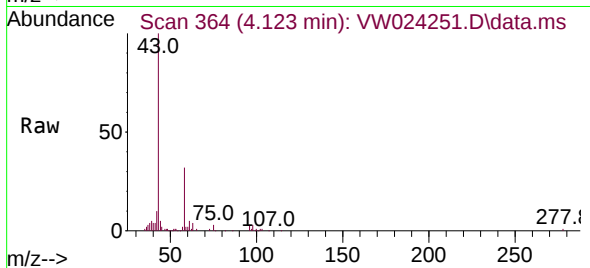
X3C31

Tgt Ion: 43 Resp: 40928

Ion Ratio Lower Upper

43 100

58 29.7 0.0 31.8



#15

Methyl Acetate

Concen: 39.741 ug/L

RT: 4.665 min Scan# 453

Delta R.T. 0.000 min

Lab File: VW024251.D

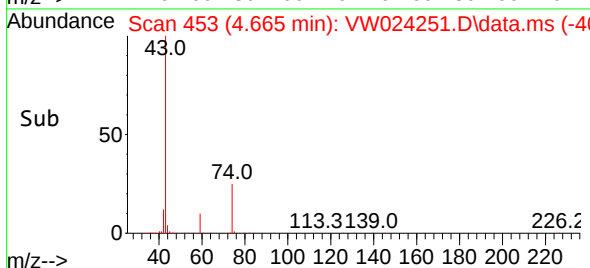
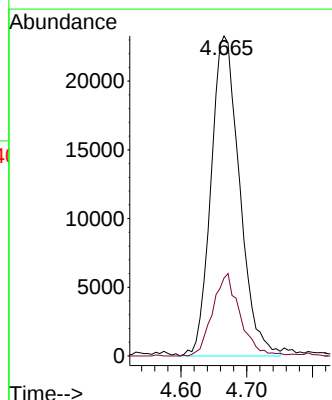
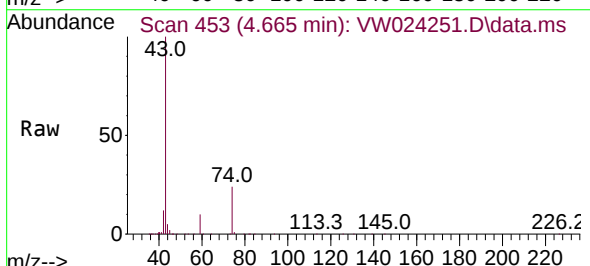
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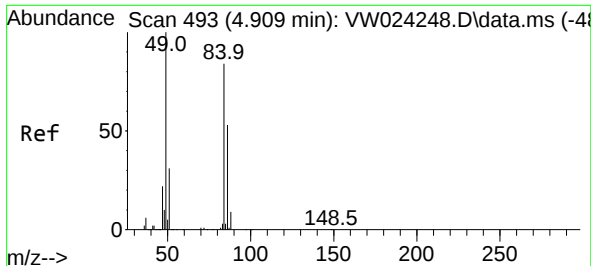
Tgt Ion: 43 Resp: 70476

Ion Ratio Lower Upper

43 100

74 24.2 21.5 32.3

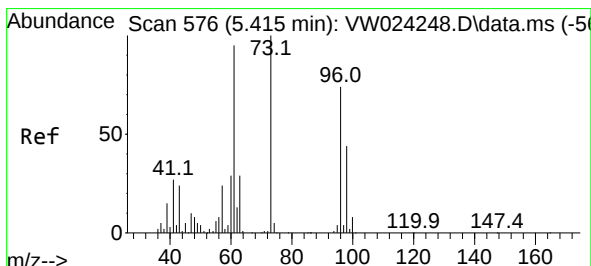
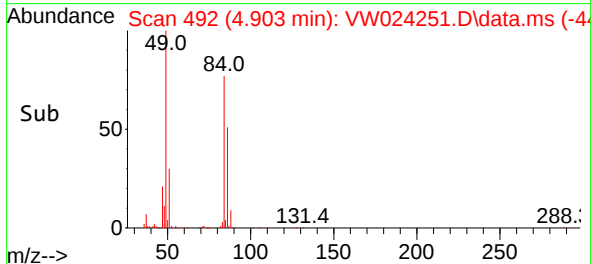
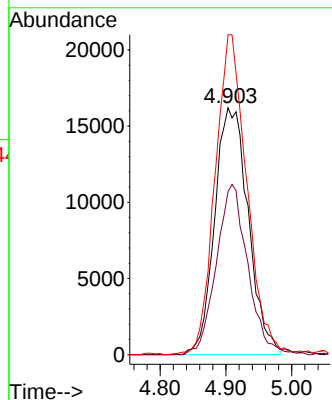
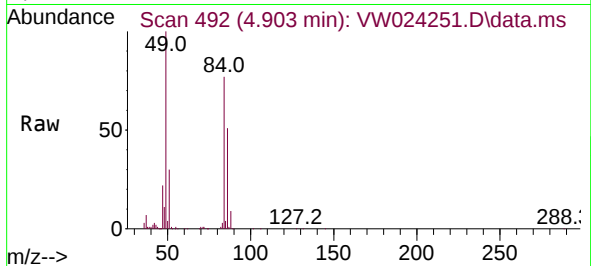




#16
Methylene chloride
Concen: 11.872 ug/L
RT: 4.903 min Scan# 493
Delta R.T. -0.006 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

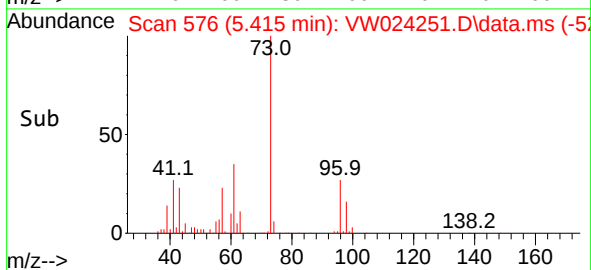
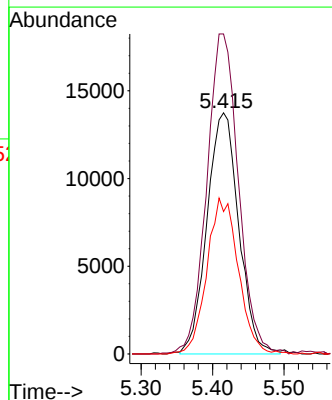
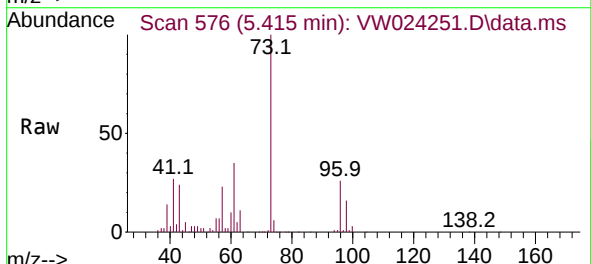
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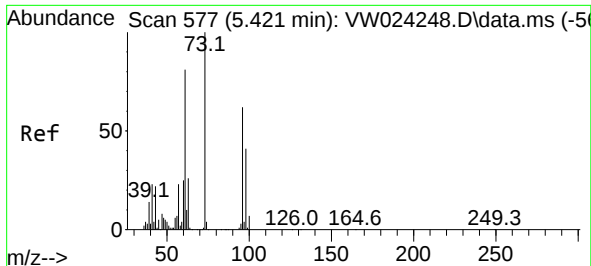
Tgt Ion: 84 Resp: 57570
Ion Ratio Lower Upper
84 100
86 66.0 42.8 79.6
49 129.7 85.3 158.3



#17
trans-1,2-Dichloroethene
Concen: 11.102 ug/L
RT: 5.415 min Scan# 576
Delta R.T. 0.000 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

Tgt Ion: 96 Resp: 42386
Ion Ratio Lower Upper
96 100
61 132.7 93.0 172.8
98 59.1 48.5 90.1

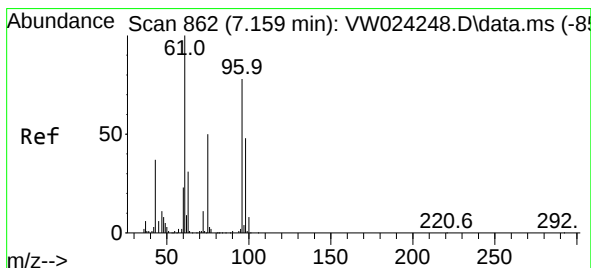
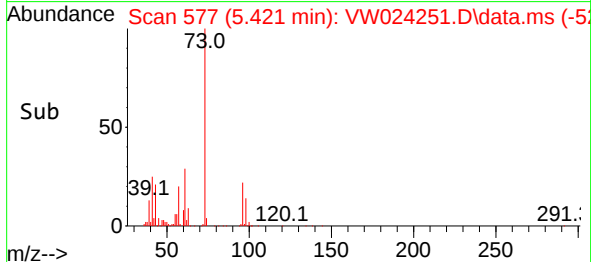
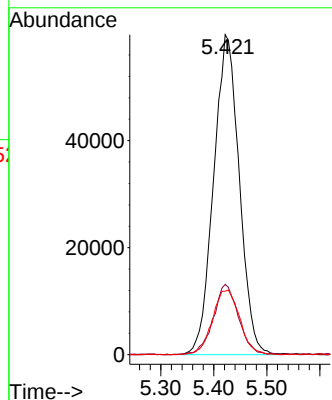
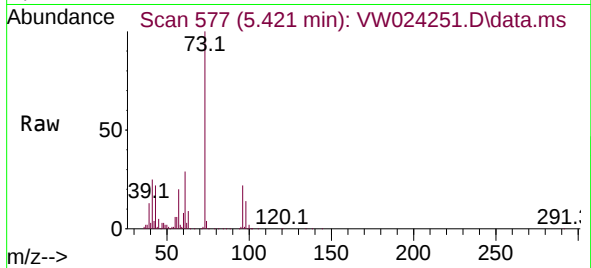




#18
Methyl tert-butyl Ether
Concen: 36.924 ug/L
RT: 5.421 min Scan# 577
Delta R.T. 0.000 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

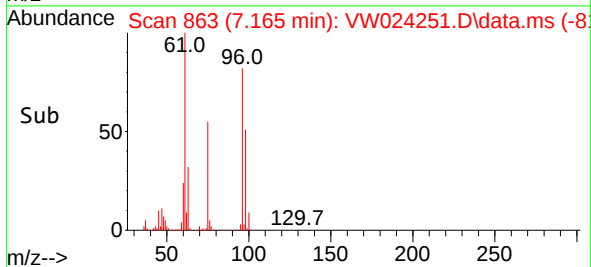
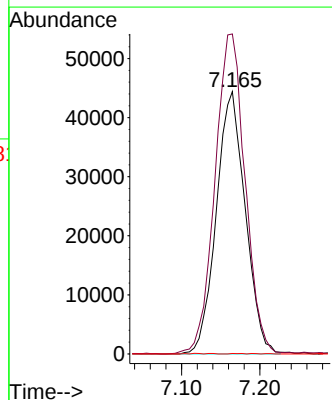
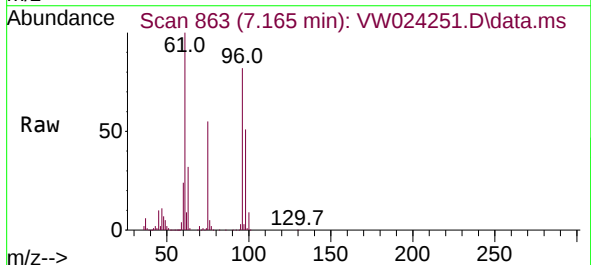
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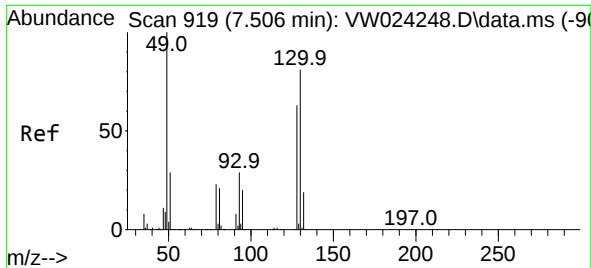
Tgt Ion: 73 Resp: 201017
Ion Ratio Lower Upper
73 100
43 21.6 16.6 24.8
57 21.0 17.6 26.4



#20
cis-1,2-Dichloroethene
Concen: 27.243 ug/L
RT: 7.165 min Scan# 863
Delta R.T. 0.006 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

Tgt Ion: 96 Resp: 114226
Ion Ratio Lower Upper
96 100
61 122.0 89.5 166.3
68 0.2 0.1 0.1#

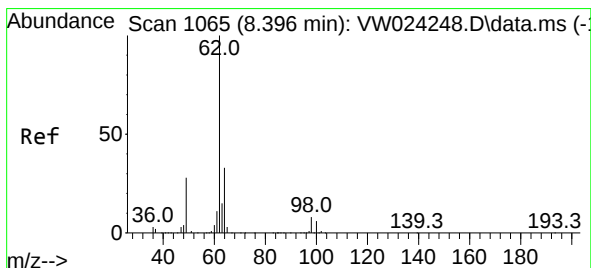
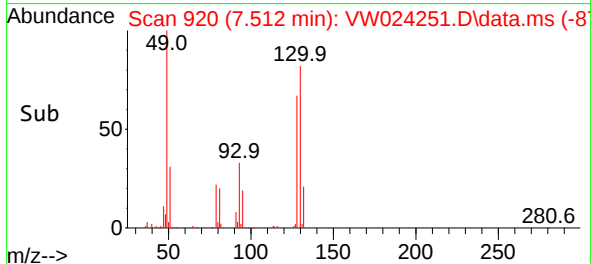
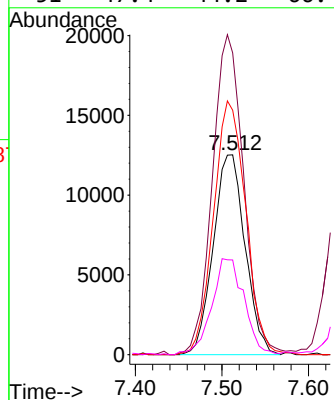
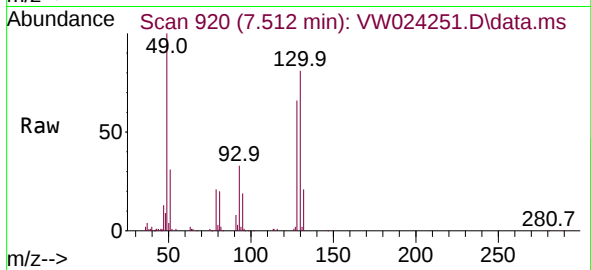




#23
Bromochloromethane
Concen: 15.315 ug/L
RT: 7.512 min Scan# 919
Delta R.T. 0.006 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

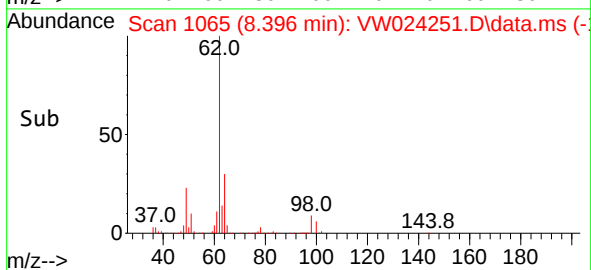
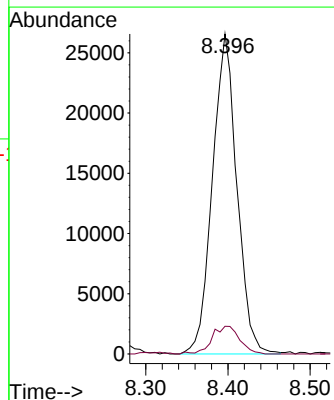
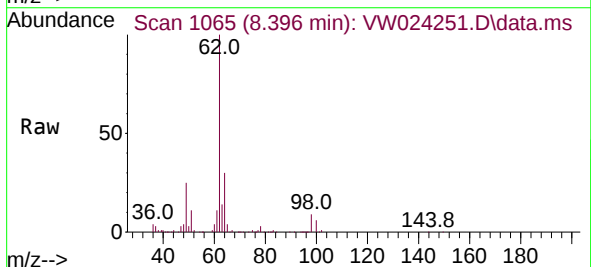
Instrument :
MSVOA_W
ClientSampleId :
X3C31

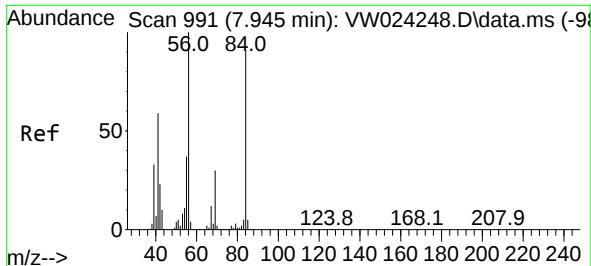
Tgt Ion:	128	Resp:	31979
Ion	Ratio	Lower	Upper
128	100		
49	151.0	106.6	198.0
130	122.4	88.1	163.5
51	47.4	44.2	66.4



#27
1,2-Dichloroethane
Concen: 11.015 ug/L
RT: 8.396 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

Tgt Ion:	62	Resp:	54928
Ion	Ratio	Lower	Upper
62	100		
98	8.6	7.4	11.0





#29

Cyclohexane

Concen: 10.602 ug/L

RT: 7.945 min Scan# 991

Delta R.T. 0.000 min

Lab File: VW024251.D

Acq: 16 Aug 2022 13:34

Instrument :

MSVOA_W

ClientSampleId :

X3C31

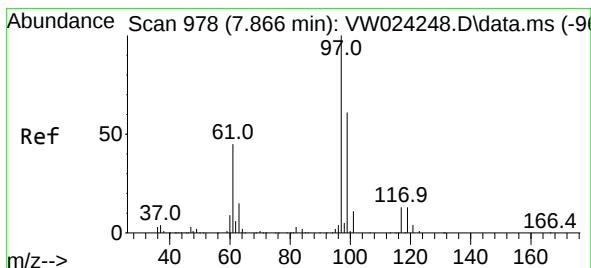
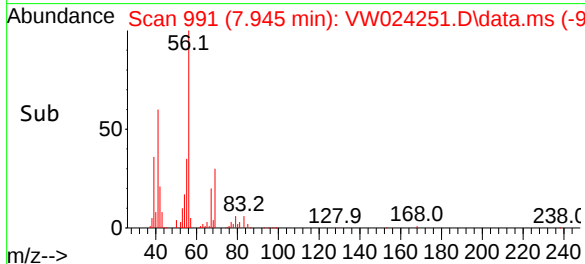
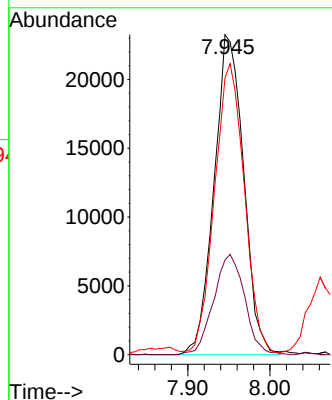
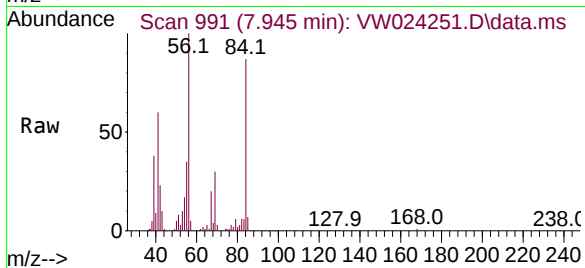
Tgt Ion: 56 Resp: 58064

Ion Ratio Lower Upper

56 100

69 32.9 24.5 36.7

84 92.1 75.5 113.3



#30

1,1,1-Trichloroethane

Concen: 10.826 ug/L

RT: 7.866 min Scan# 978

Delta R.T. 0.000 min

Lab File: VW024251.D

Acq: 16 Aug 2022 13:34

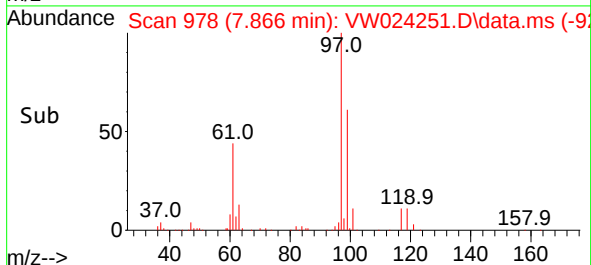
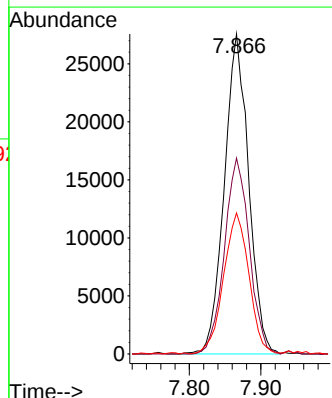
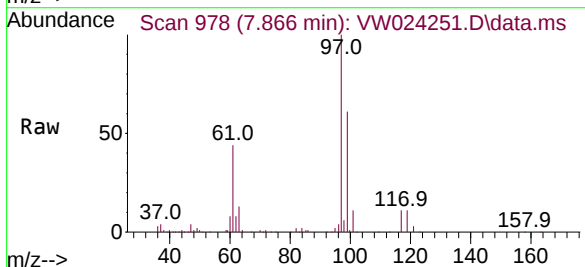
Tgt Ion: 97 Resp: 65220

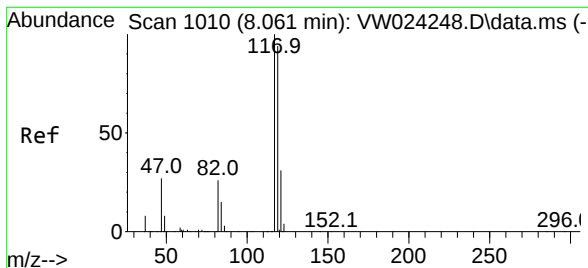
Ion Ratio Lower Upper

97 100

99 62.7 51.0 76.6

61 45.9 36.2 54.2

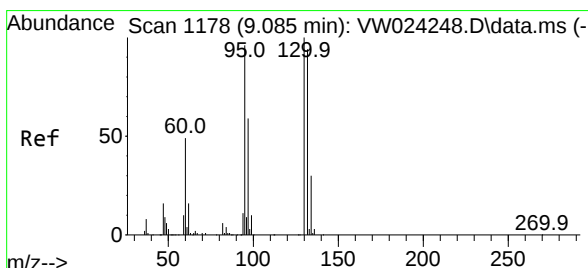
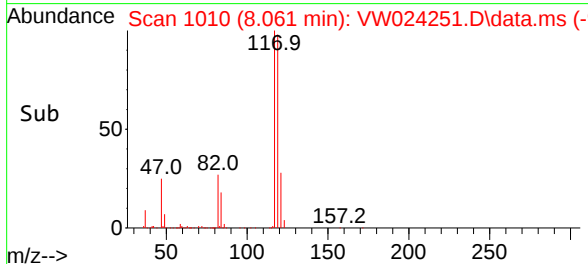
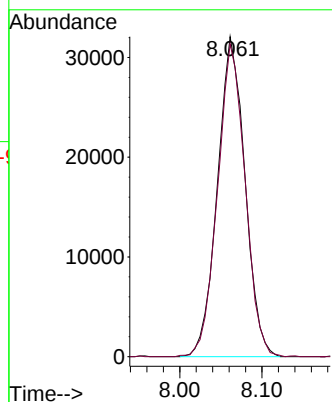
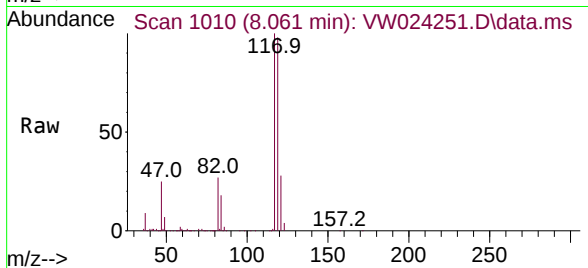




#31
Carbon tetrachloride
Concen: 13.119 ug/L
RT: 8.061 min Scan# 1010
Delta R.T. 0.000 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

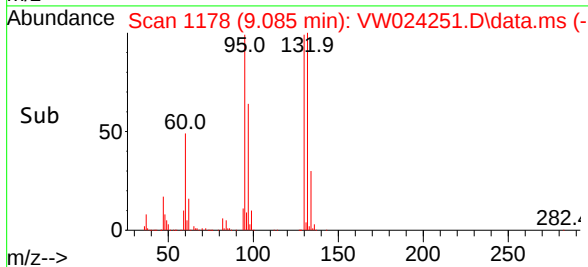
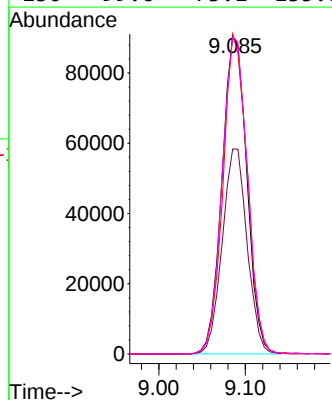
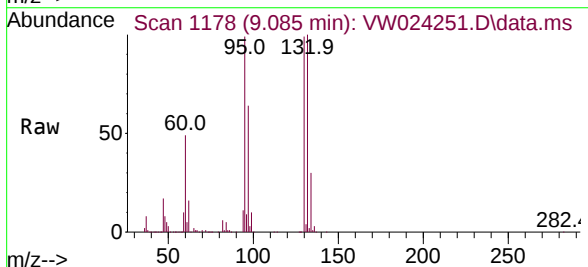
Instrument :
MSVOA_W
ClientSampleId :
X3C31

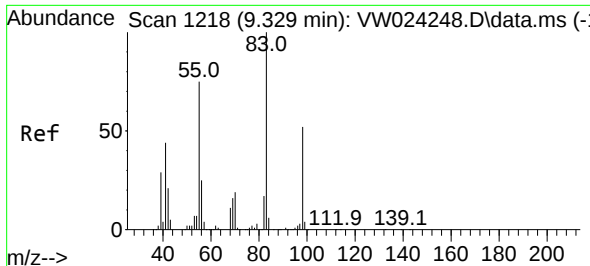
Tgt Ion: 117 Resp: 74561
Ion Ratio Lower Upper
117 100
119 97.5 77.8 116.8



#34
Trichloroethene
Concen: 43.226 ug/L
RT: 9.085 min Scan# 1178
Delta R.T. 0.000 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

Tgt Ion: 95 Resp: 180260
Ion Ratio Lower Upper
95 100
97 64.5 41.6 77.2
132 100.7 67.0 124.4
130 99.6 73.1 135.8

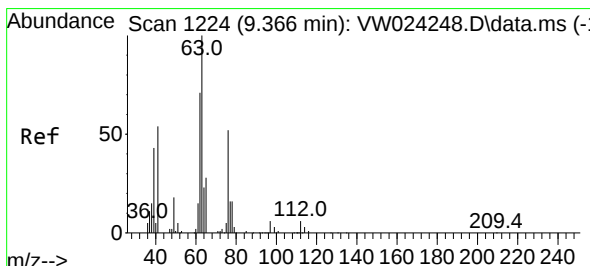
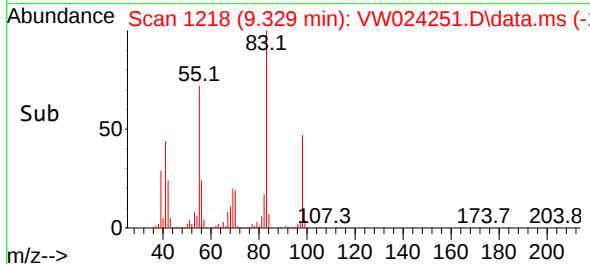
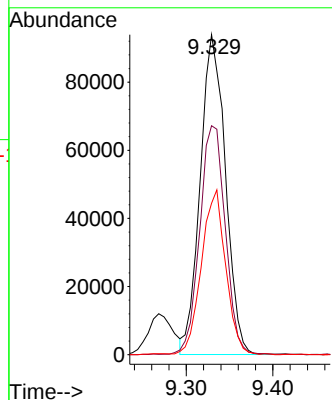
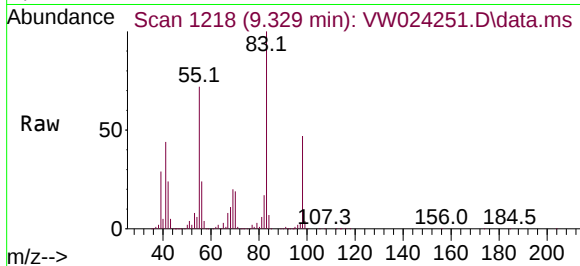




#35
Methylcyclohexane
Concen: 29.038 ug/L
RT: 9.329 min Scan# 1218
Delta R.T. 0.000 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

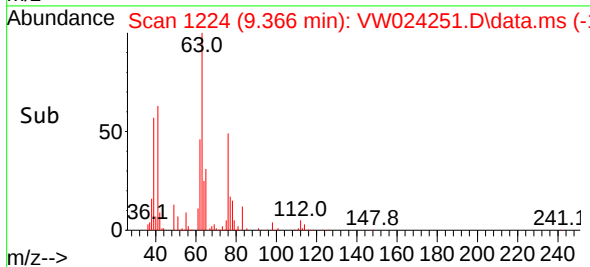
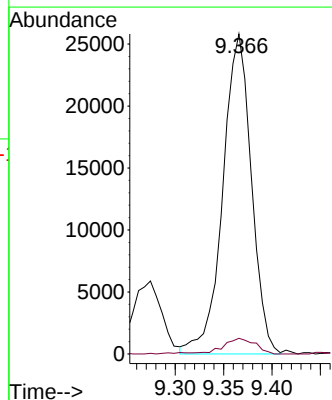
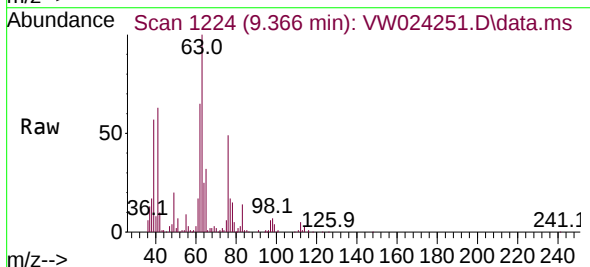
Instrument :
MSVOA_W
ClientSampleId :
X3C31

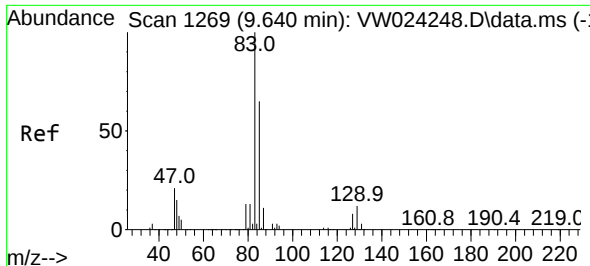
Tgt Ion: 83 Resp: 189894
Ion Ratio Lower Upper
83 100
55 72.3 59.1 88.7
98 49.6 40.8 61.2



#37
1,2-Dichloropropane
Concen: 13.595 ug/L
RT: 9.366 min Scan# 1224
Delta R.T. 0.000 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

Tgt Ion: 63 Resp: 53022
Ion Ratio Lower Upper
63 100
112 5.2 3.8 5.6

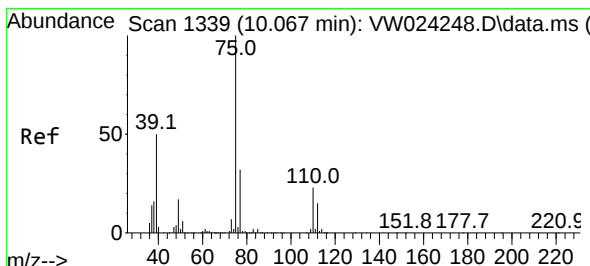
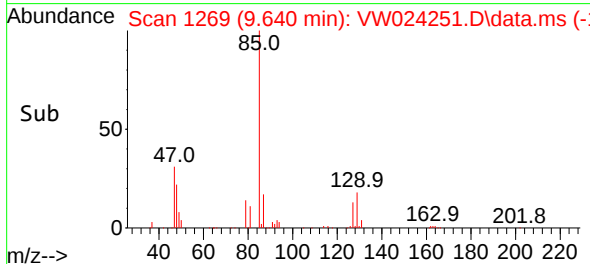
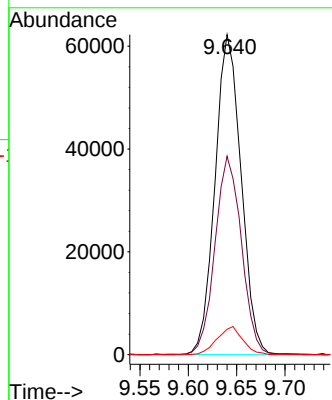
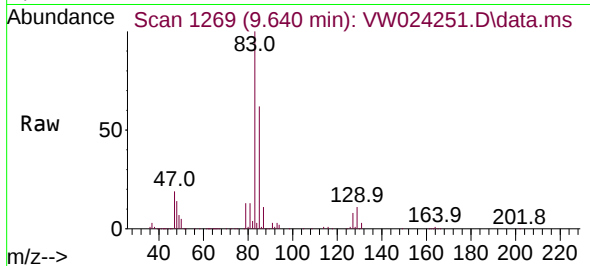




#38
Bromodichloromethane
Concen: 21.305 ug/L
RT: 9.640 min Scan# 1269
Delta R.T. 0.000 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

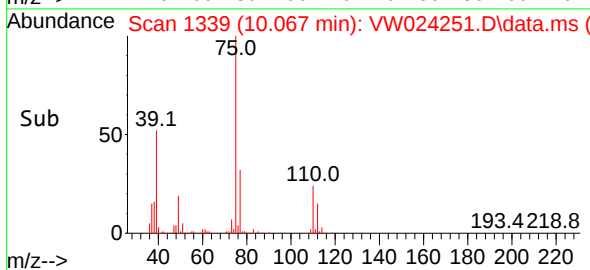
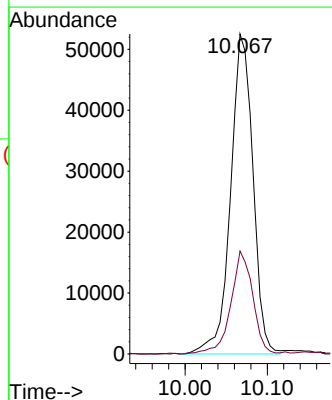
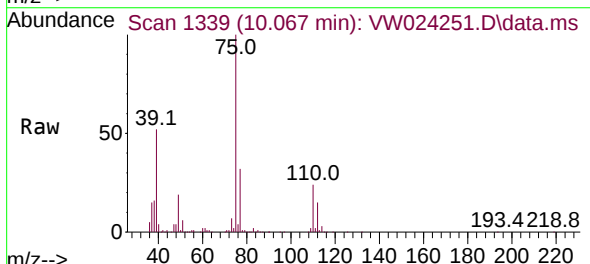
Instrument :
MSVOA_W
ClientSampleId :
X3C31

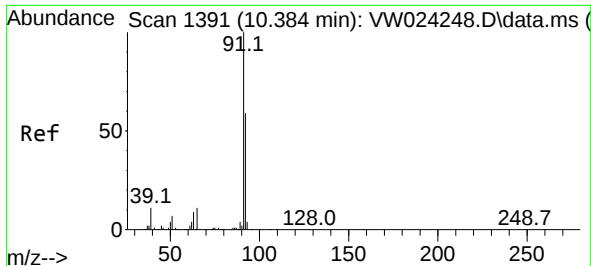
Tgt Ion: 83 Resp: 116540
Ion Ratio Lower Upper
83 100
85 62.0 43.7 81.1
127 8.0 6.9 10.3



#39
cis-1,3-Dichloropropene
Concen: 17.336 ug/L
RT: 10.067 min Scan# 1339
Delta R.T. 0.000 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

Tgt Ion: 75 Resp: 99468
Ion Ratio Lower Upper
75 100
77 32.2 23.4 43.6

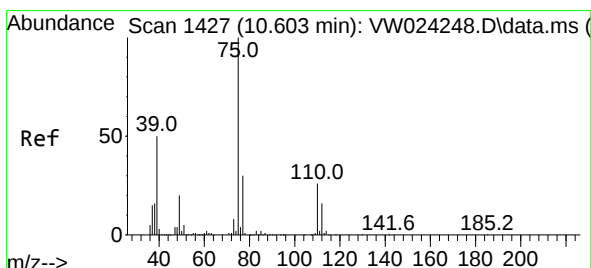
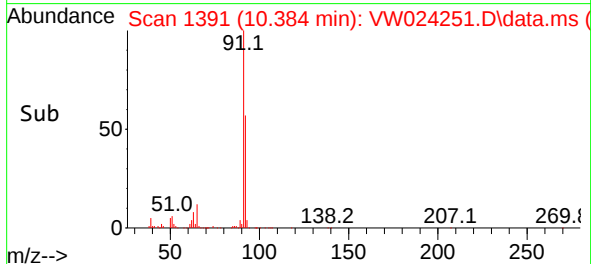
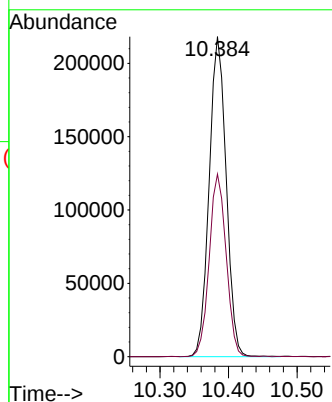
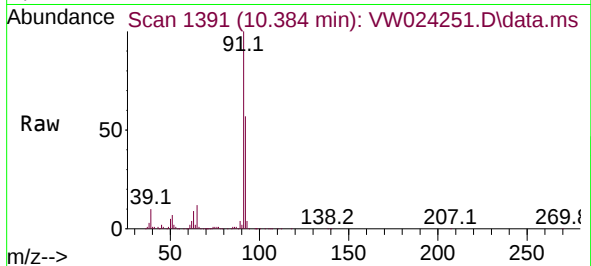




#42
Toluene
Concen: 22.454 ug/L
RT: 10.384 min Scan# 1391
Delta R.T. 0.000 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

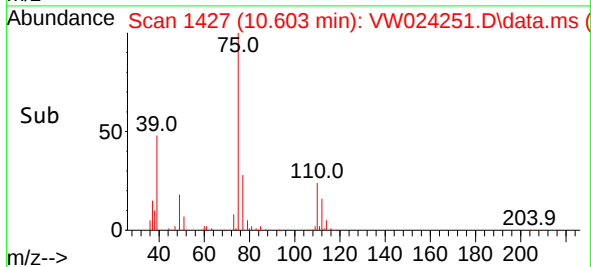
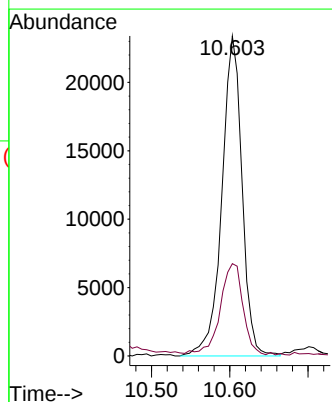
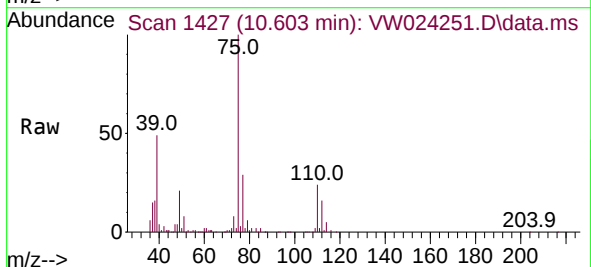
Instrument :
MSVOA_W
ClientSampleId :
X3C31

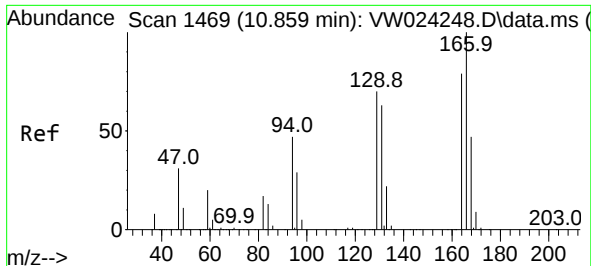
Tgt Ion: 91 Resp: 376460
Ion Ratio Lower Upper
91 100
92 57.0 41.4 77.0



#44
trans-1,3-Dichloropropene
Concen: 8.003 ug/L
RT: 10.603 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

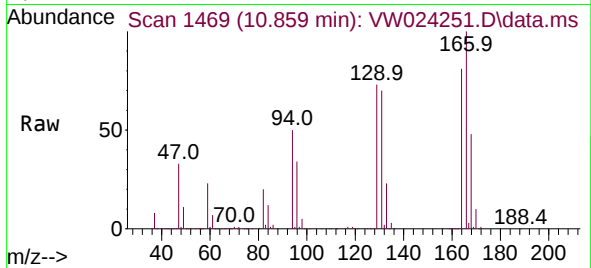
Tgt Ion: 75 Resp: 41957
Ion Ratio Lower Upper
75 100
77 28.9 22.4 41.6



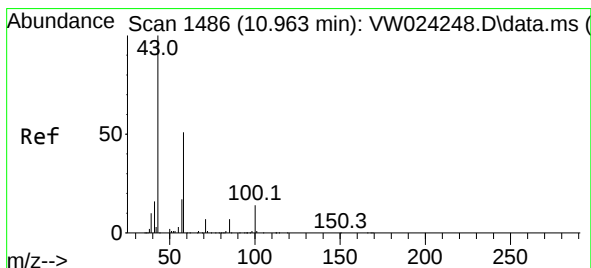
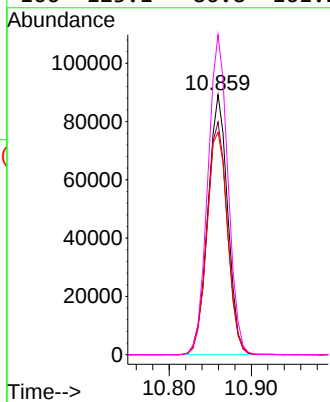
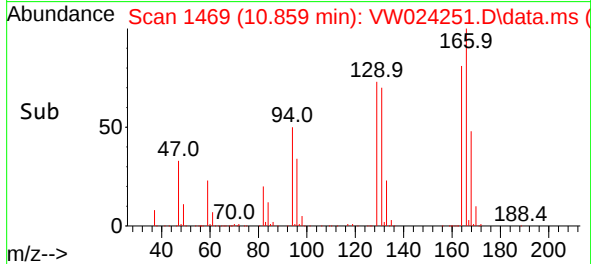


#46
Tetrachloroethene
Concen: 44.270 ug/L
RT: 10.859 min Scan# 1469
Delta R.T. 0.000 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

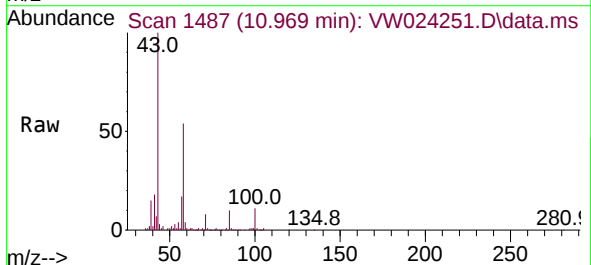
Instrument :
MSVOA_W
ClientSampleId :
X3C31



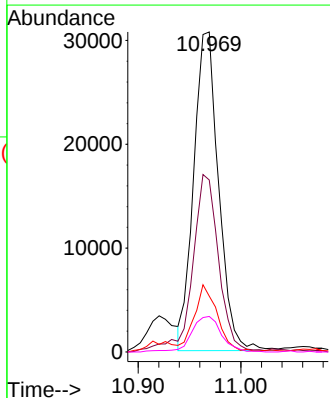
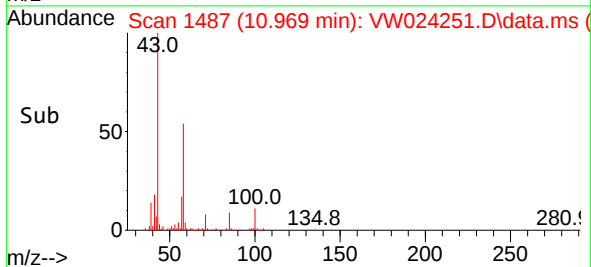
Tgt Ion:164 Resp: 149459
Ion Ratio Lower Upper
164 100
129 89.5 63.1 117.3
131 85.5 63.9 118.7
166 123.1 86.8 161.2

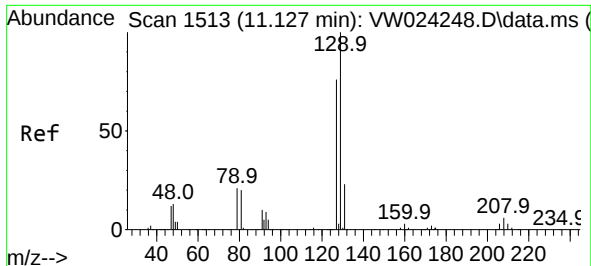


#48
2-Hexanone
Concen: 29.556 ug/L
RT: 10.969 min Scan# 1487
Delta R.T. 0.006 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34



Tgt Ion: 43 Resp: 51918
Ion Ratio Lower Upper
43 100
58 58.2 43.4 65.0
57 19.4 15.0 22.4
100 13.3 10.8 16.2





#49

Dibromochloromethane

Concen: 20.645 ug/L

RT: 11.128 min Scan# 1513

Delta R.T. 0.000 min

Lab File: VW024251.D

Acq: 16 Aug 2022 13:34

Instrument :

MSVOA_W

ClientSampleId :

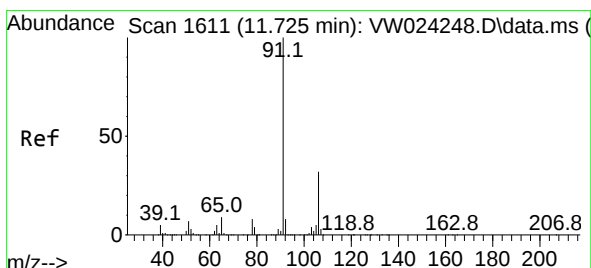
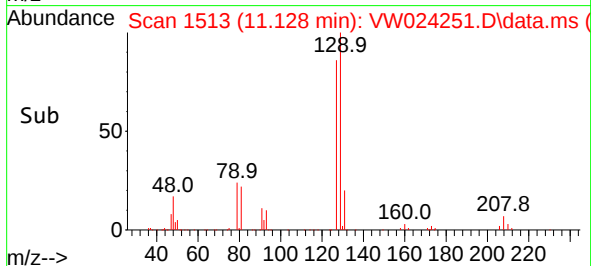
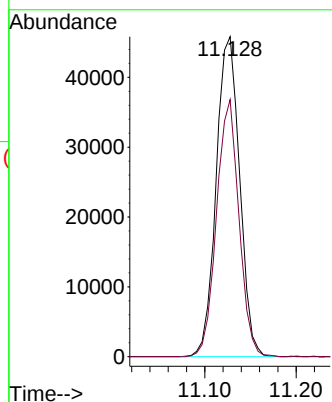
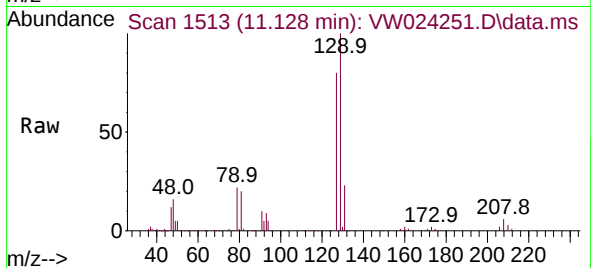
X3C31

Tgt Ion:129 Resp: 81702

Ion Ratio Lower Upper

129 100

127 80.3 52.3 97.1



#52

Ethylbenzene

Concen: 16.482 ug/L

RT: 11.725 min Scan# 1611

Delta R.T. 0.000 min

Lab File: VW024251.D

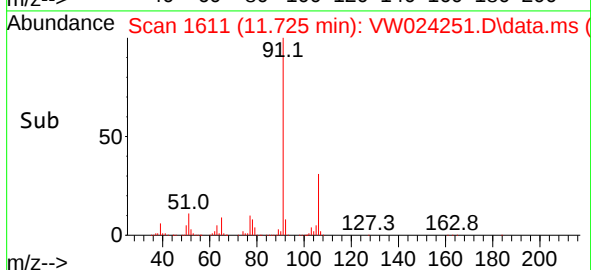
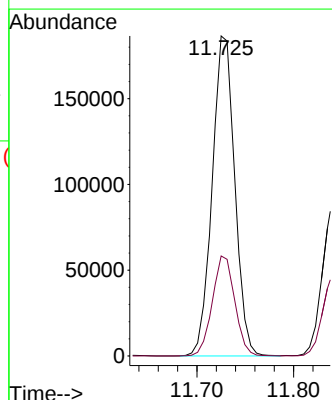
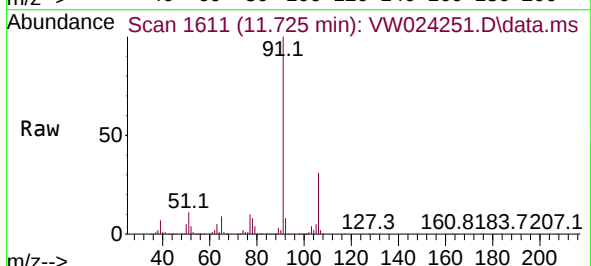
Acq: 16 Aug 2022 13:34

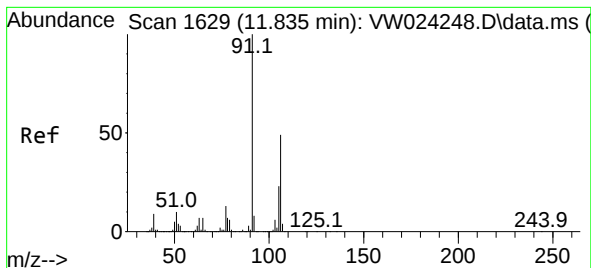
Tgt Ion: 91 Resp: 302748

Ion Ratio Lower Upper

91 100

106 31.3 21.9 40.7

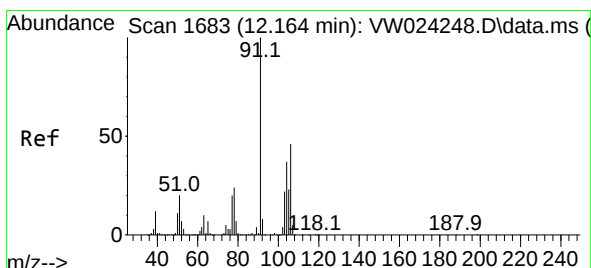
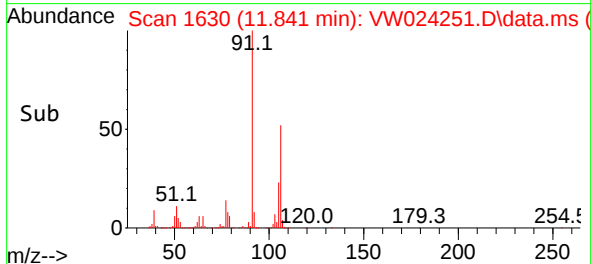
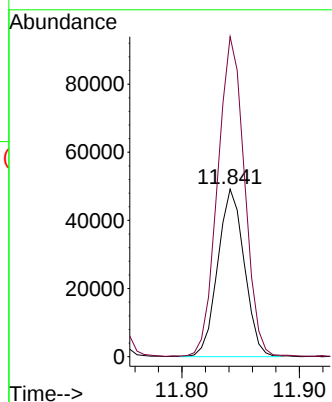
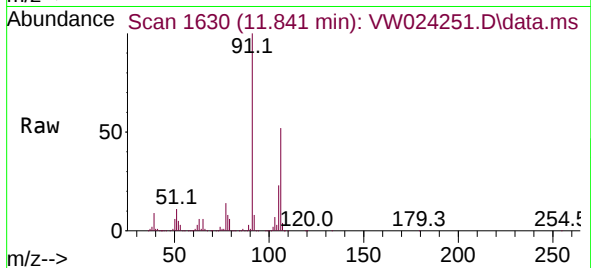




#53
m,p-Xylene
Concen: 10.812 ug/L
RT: 11.841 min Scan# 1630
Delta R.T. 0.006 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

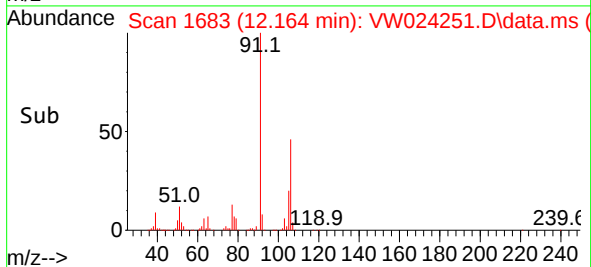
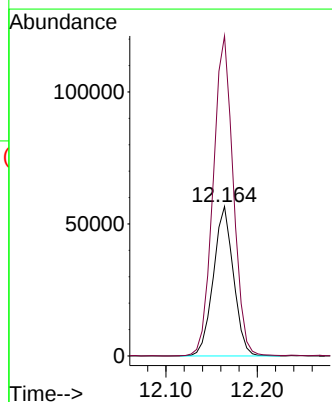
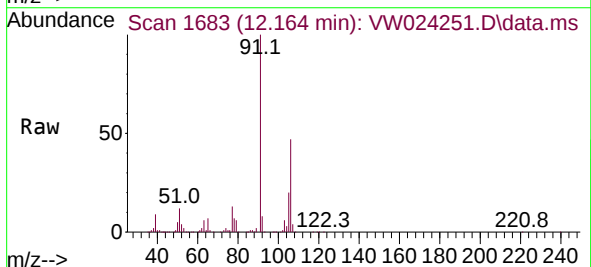
Instrument :
MSVOA_W
ClientSampleId :
X3C31

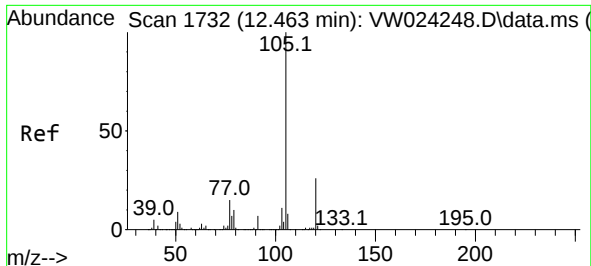
Tgt Ion:106 Resp: 77306
Ion Ratio Lower Upper
106 100
91 191.1 144.1 267.7



#54
o-Xylene
Concen: 12.834 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

Tgt Ion:106 Resp: 86695
Ion Ratio Lower Upper
106 100
91 214.1 150.9 280.3

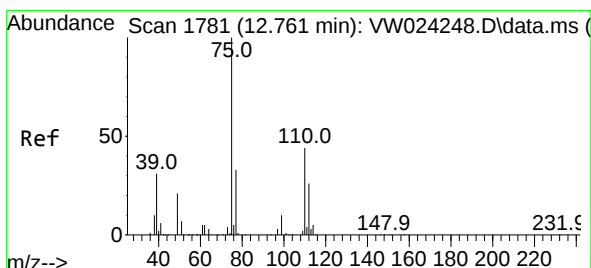
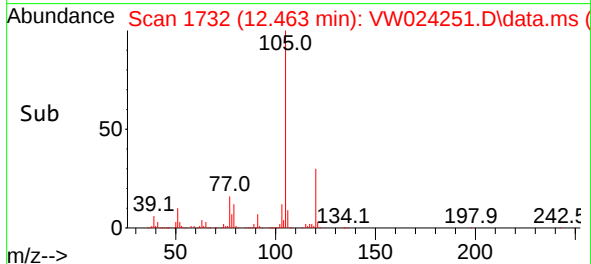
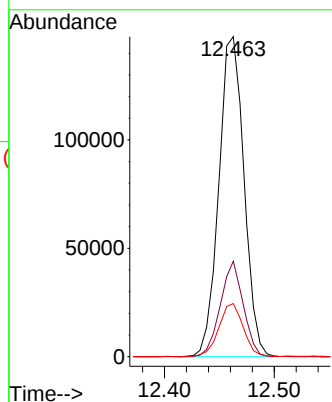
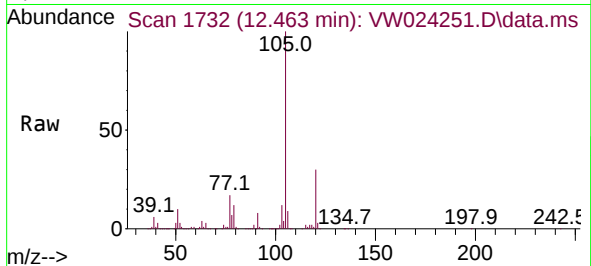




#60
Isopropylbenzene
Concen: 12.833 ug/L
RT: 12.463 min Scan# 1732
Delta R.T. 0.000 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

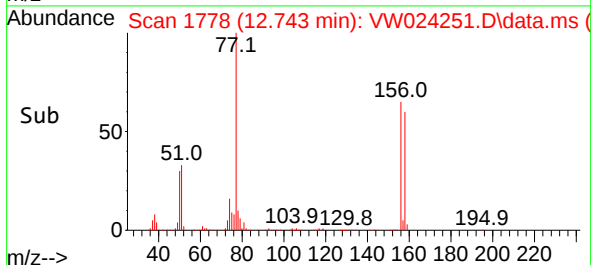
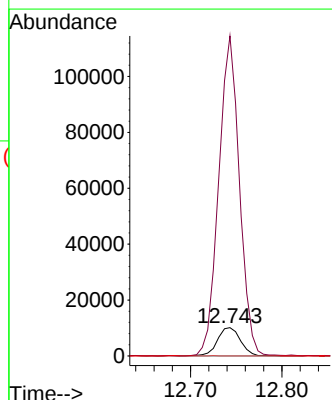
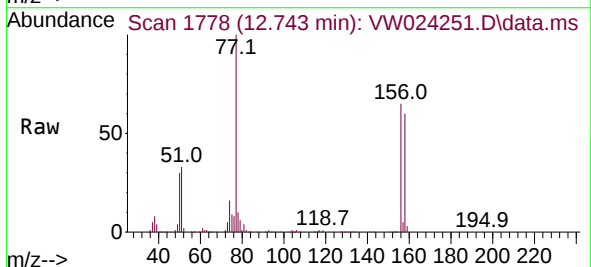
Instrument :
MSVOA_W
ClientSampleId :
X3C31

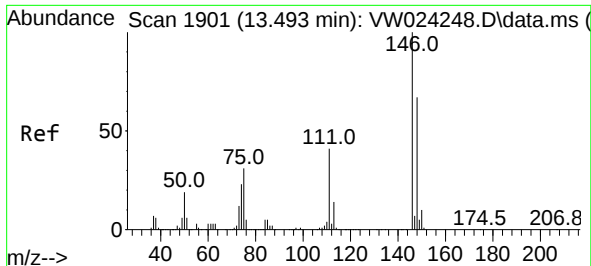
Tgt Ion:105 Resp: 235610
Ion Ratio Lower Upper
105 100
120 27.1 21.4 32.2
77 16.2 12.4 18.6



#61
1,2,3-Trichloropropane
Concen: 5.924 ug/L
RT: 12.743 min Scan# 1778
Delta R.T. -0.018 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

Tgt Ion: 75 Resp: 17881
Ion Ratio Lower Upper
75 100
77 1012.7 26.2 39.4#
110 0.0 33.6 50.4#

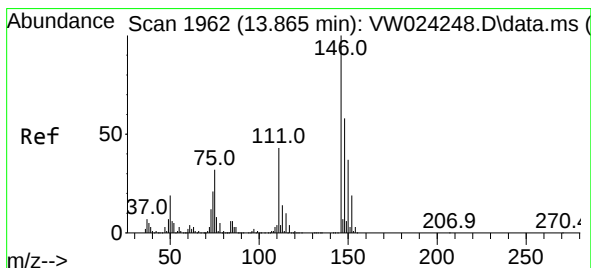
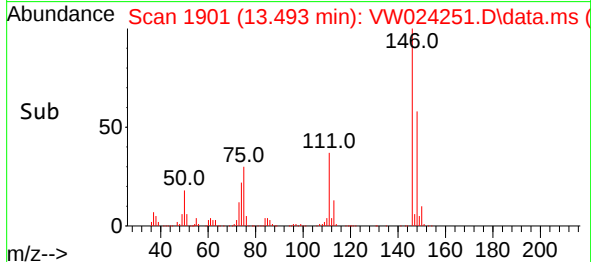
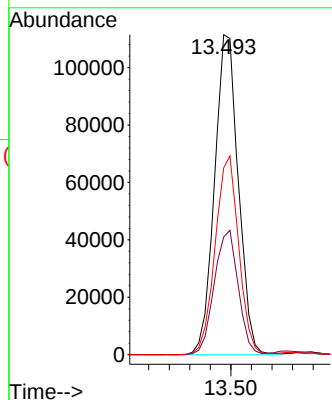
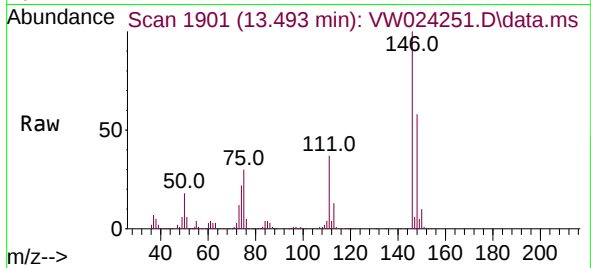




#64
1,3-Dichlorobenzene
Concen: 19.939 ug/L
RT: 13.493 min Scan# 1901
Delta R.T. 0.000 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

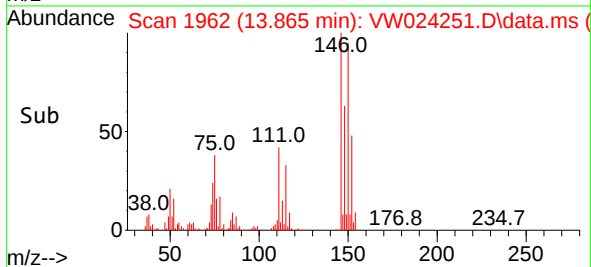
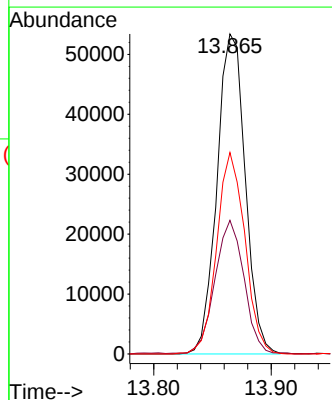
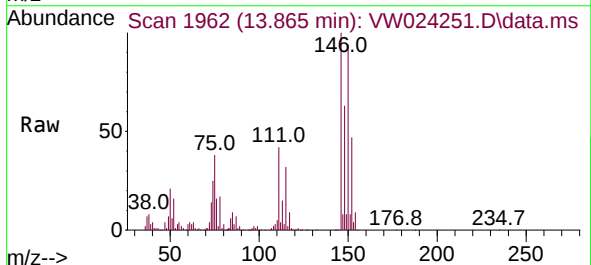
Instrument :
MSVOA_W
ClientSampleId :
X3C31

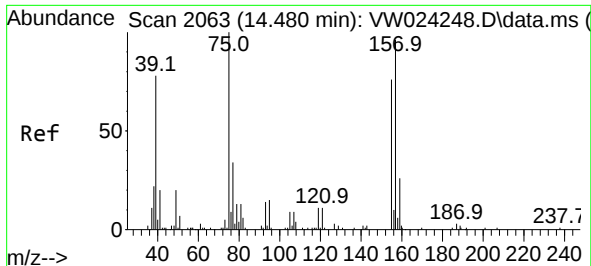
Tgt Ion:146 Resp: 179254
Ion Ratio Lower Upper
146 100
111 36.8 28.0 52.0
148 58.4 46.5 86.3



#67
1,2-Dichlorobenzene
Concen: 10.484 ug/L
RT: 13.865 min Scan# 1962
Delta R.T. 0.000 min
Lab File: VW024251.D
Acq: 16 Aug 2022 13:34

Tgt Ion:146 Resp: 89506
Ion Ratio Lower Upper
146 100
111 41.7 29.0 43.6
148 63.0 47.8 71.8





#68

1,2-Dibromo-3-chloropropane

Concen: 18.191 ug/L

RT: 14.481 min Scan# 2063

Delta R.T. 0.000 min

Lab File: VW024251.D

Acq: 16 Aug 2022 13:34

Instrument :

MSVOA_W

ClientSampleId :

X3C31

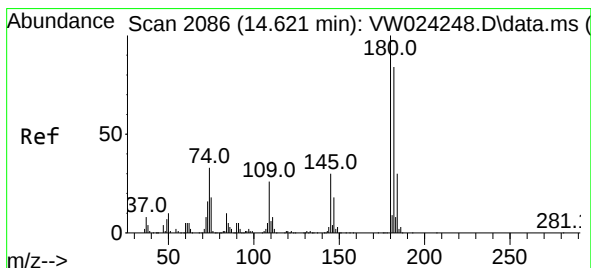
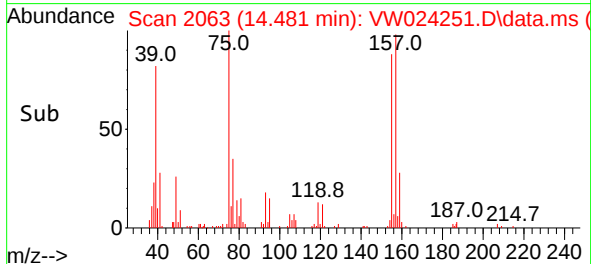
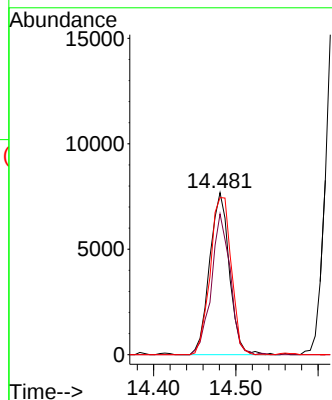
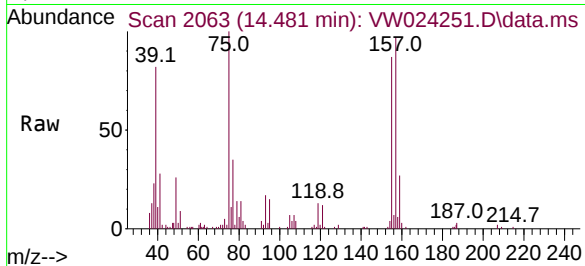
Tgt Ion: 75 Resp: 12828

Ion Ratio Lower Upper

75 100

155 86.8 68.8 103.2

157 97.0 91.5 137.3



#69

1,3,5-Trichlorobenzene

Concen: 27.400 ug/L

RT: 14.627 min Scan# 2087

Delta R.T. 0.006 min

Lab File: VW024251.D

Acq: 16 Aug 2022 13:34

Tgt Ion:180 Resp: 161528

Ion Ratio Lower Upper

180 100

182 99.4 78.4 117.6

184 30.1 24.7 37.1

145 30.7 25.9 38.9

