

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW051223\
 Data File : VW025962.D
 Acq On : 12 May 2023 14:32
 Operator : SY/MD
 Sample : 02769-11
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 GBW08

Quant Time: May 14 22:48:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM050123SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sun May 14 22:48:01 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	645748	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	582457	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	296853	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	184910	20.207	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	80.840%
7) Chloroethane-d5	2.893	69	152198	22.435	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.720%
11) 1,1-Dichloroethene-d2	4.015	65	93152	20.330	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	81.320%
21) 2-Butanone-d5	7.075	46	136957	45.273	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	90.540%
24) Chloroform-d	7.642	84	400698	21.520	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	86.080%
26) 1,2-Dichloroethane-d4	8.301	65	231981	22.032	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	88.120%
32) Benzene-d6	8.270	84	818150	21.497	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	86.000%
36) 1,2-Dichloropropane-d6	9.270	67	268855	22.079	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	88.320%
41) Toluene-d8	10.319	98	716588	21.115	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	84.440%
43) trans-1,3-Dichloroprop...	10.575	79	103895	21.048	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	84.200%
47) 2-Hexanone-d5	10.922	63	97922	47.159	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.320%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	213707	23.026	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	92.120%
66) 1,2-Dichlorobenzene-d4	13.849	152	228727	21.136	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	84.560%
Target Compounds						
					Qvalue	
3) Chloromethane	2.223	50	239584	22.523	ug/L	100
6) Bromomethane	2.783	94	43008	7.182	ug/L	95
9) Trichlorofluoromethane	3.259	101	115780	13.934	ug/L	100
12) 1,1-Dichloroethene	4.039	96	176889	20.482	ug/L	92
13) Acetone	4.125	43	237708	88.619	ug/L	99
15) Methyl Acetate	4.667	43	202571	38.322	ug/L	99
16) Methylene chloride	4.917	84	142087	10.669	ug/L	95
17) trans-1,2-Dichloroethene	5.417	96	103905	11.029	ug/L	95
18) Methyl tert-butyl Ether	5.423	73	442188	30.924	ug/L	100
20) cis-1,2-Dichloroethene	7.167	96	267553	26.470	ug/L	99
23) Bromochloromethane	7.514	128	65365	15.265	ug/L	94
27) 1,2-Dichloroethane	8.398	62	127634	10.102	ug/L	100
29) Cyclohexane	7.953	56	183805	10.183	ug/L	99
30) 1,1,1-Trichloroethane	7.868	97	147713	10.370	ug/L	99
31) Carbon tetrachloride	8.069	117	166234	12.968	ug/L	100
34) Trichloroethene	9.087	95	421095	40.723	ug/L	97
35) Methylcyclohexane	9.331	83	494915	26.910	ug/L	100
37) 1,2-Dichloropropane	9.368	63	144004	13.043	ug/L	100
38) Bromodichloromethane	9.642	83	257279	20.312	ug/L	98

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

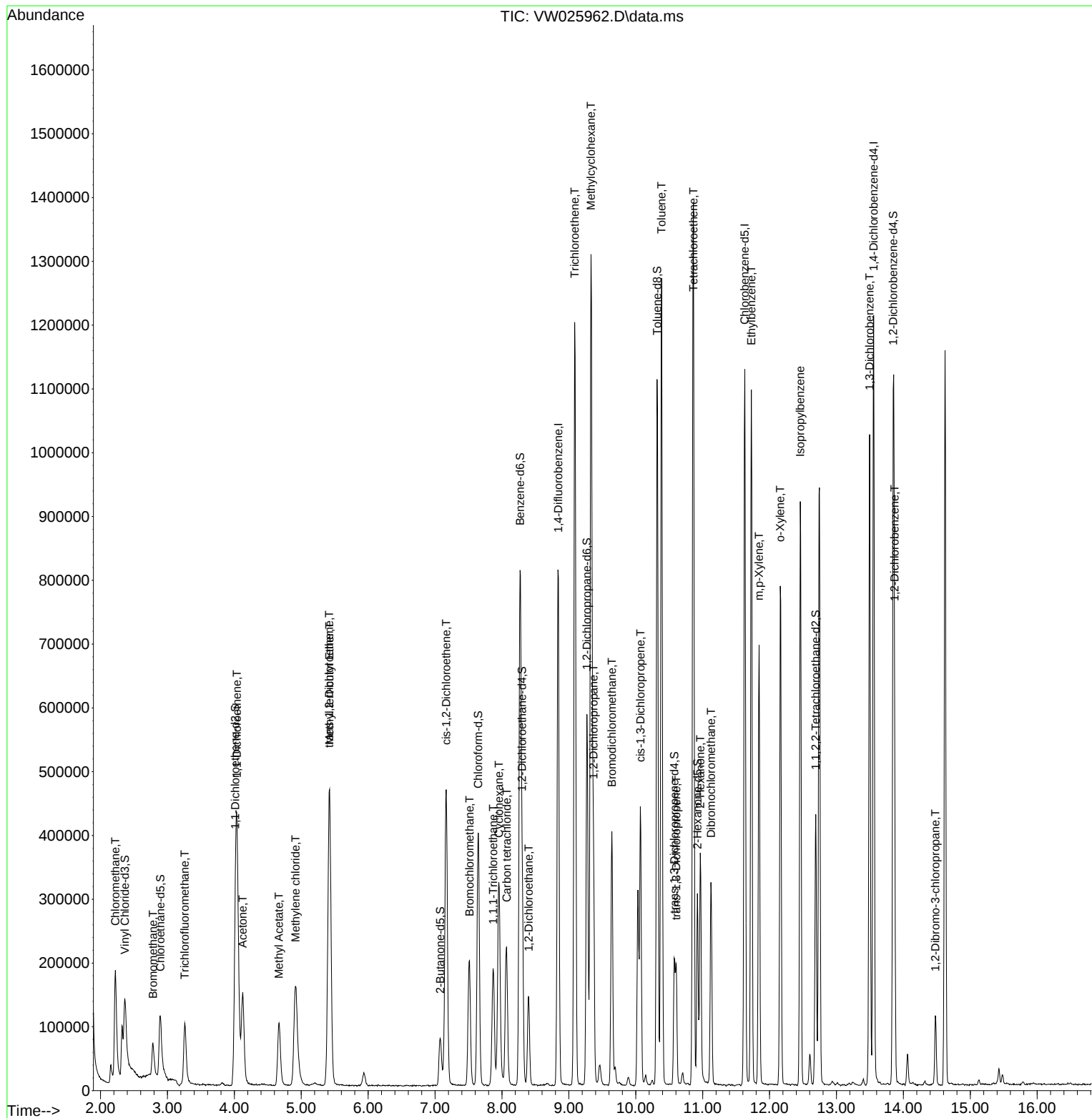
39) cis-1,3-Dichloropropene	10.069	75	245358	15.154	ug/L	99
42) Toluene	10.386	91	872301	21.185	ug/L	98
44) trans-1,3-Dichloropropene	10.605	75	101215	7.545	ug/L	98
46) Tetrachloroethene	10.861	164	287965	39.584	ug/L	96
48) 2-Hexanone	10.965	43	245850	47.755	ug/L	97
49) Dibromochloromethane	11.123	129	155903	20.390	ug/L	96
52) Ethylbenzene	11.727	91	725041	15.654	ug/L	97
53) m,p-Xylene	11.843	106	177656	10.422	ug/L	91
54) o-Xylene	12.160	106	200347	12.469	ug/L	92
60) Isopropylbenzene	12.459	105	560119	12.413	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	369760	19.036	ug/L	94
67) 1,2-Dichlorobenzene	13.867	146	169650	9.793	ug/L	93
68) 1,2-Dibromo-3-chloropr...	14.476	75	28777	17.689	ug/L	95

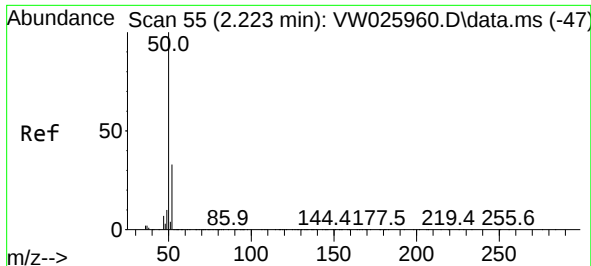
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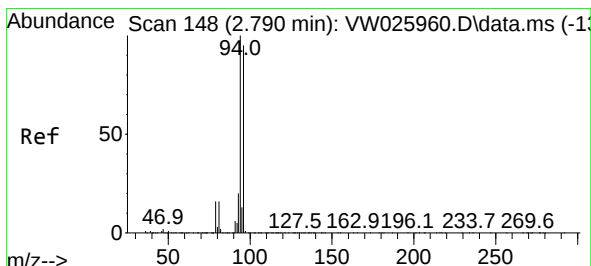
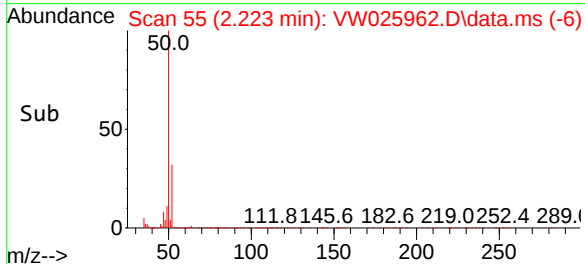
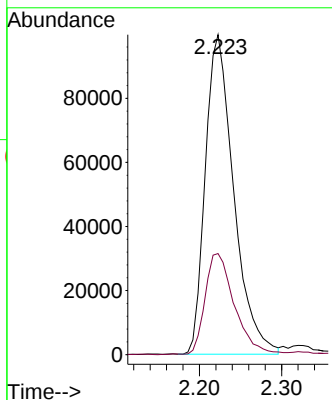
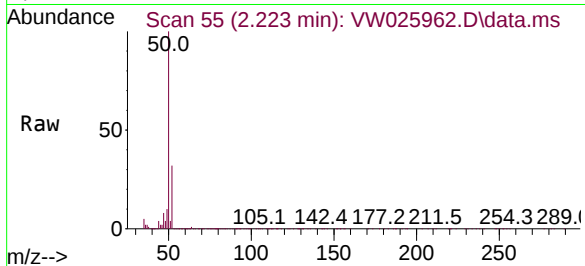




#3
Chloromethane
Concen: 22.523 ug/L
RT: 2.223 min Scan# 51
Delta R.T. -0.000 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

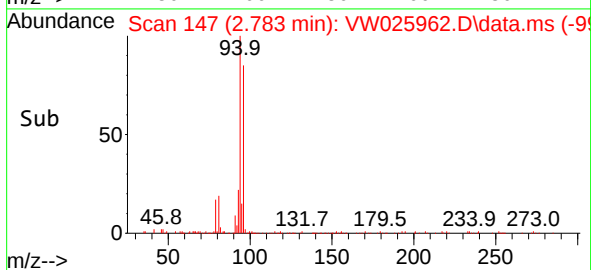
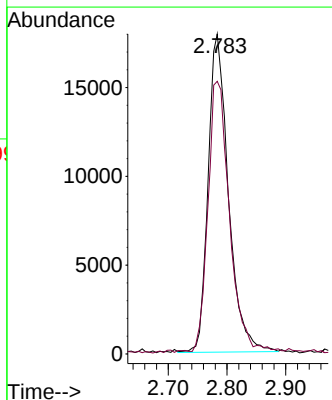
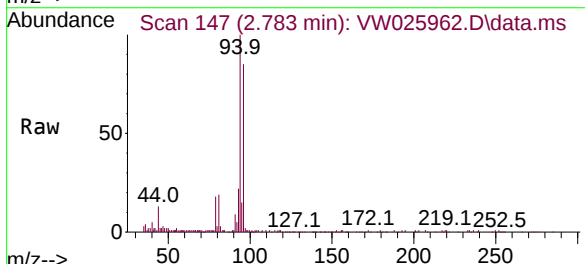
Instrument :
MSVOA_W
ClientSampleId :
GBW08

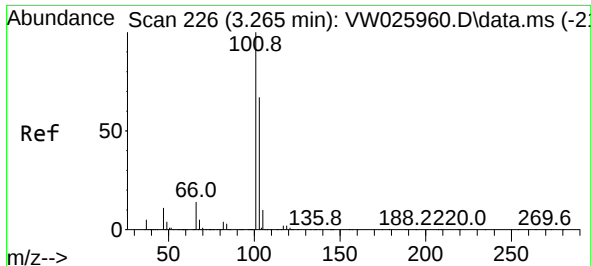
Tgt Ion: 50 Resp: 239584
Ion Ratio Lower Upper
50 100
52 31.6 22.1 41.1



#6
Bromomethane
Concen: 7.182 ug/L
RT: 2.783 min Scan# 147
Delta R.T. -0.006 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

Tgt Ion: 94 Resp: 43008
Ion Ratio Lower Upper
94 100
96 85.2 63.1 117.1

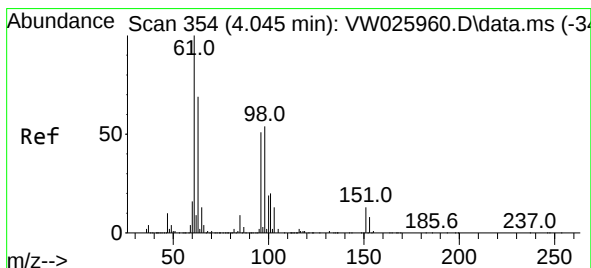
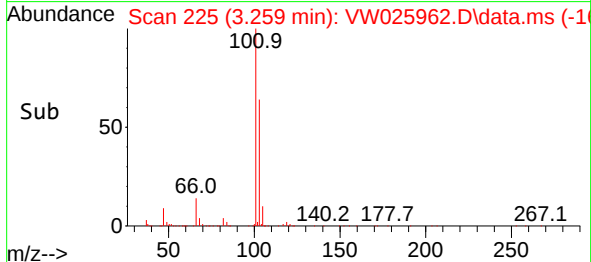
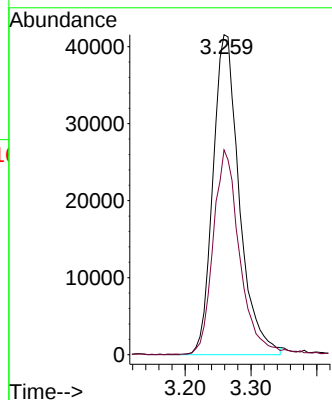
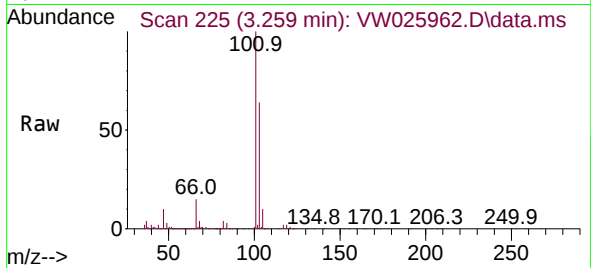




#9
 Trichlorofluoromethane
 Concen: 13.934 ug/L
 RT: 3.259 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VW025962.D
 Acq: 12 May 2023 14:32

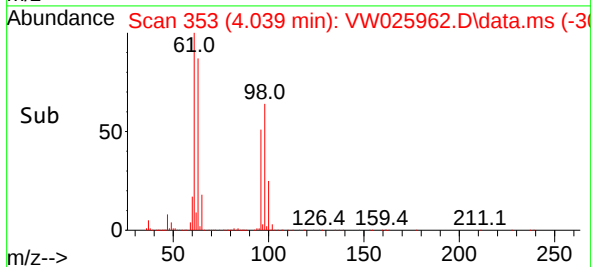
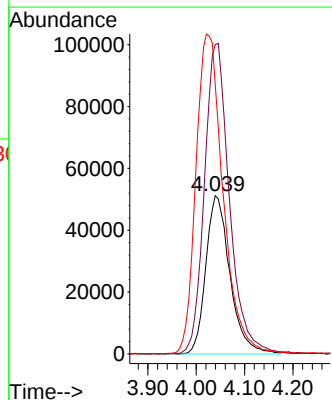
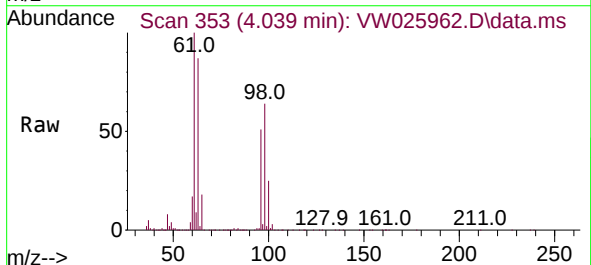
Instrument :
 MSVOA_W
 ClientSampleId :
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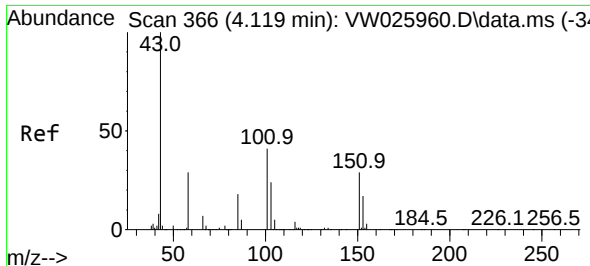
Tgt Ion:101 Resp: 115780
 Ion Ratio Lower Upper
 101 100
 103 63.3 50.6 76.0



#12
 1,1-Dichloroethene
 Concen: 20.482 ug/L
 RT: 4.039 min Scan# 353
 Delta R.T. -0.006 min
 Lab File: VW025962.D
 Acq: 12 May 2023 14:32

Tgt Ion: 96 Resp: 176889
 Ion Ratio Lower Upper
 96 100
 61 195.5 135.0 250.8
 63 170.2 104.9 194.7

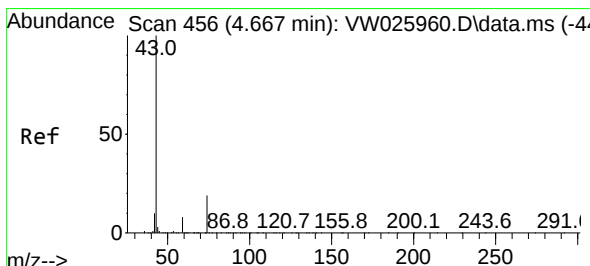
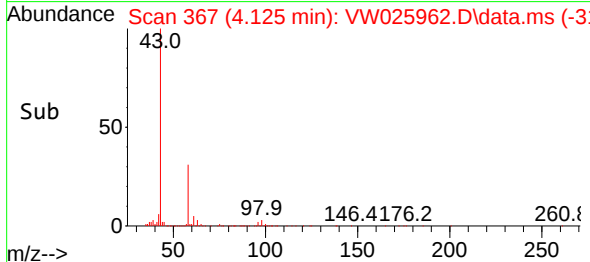
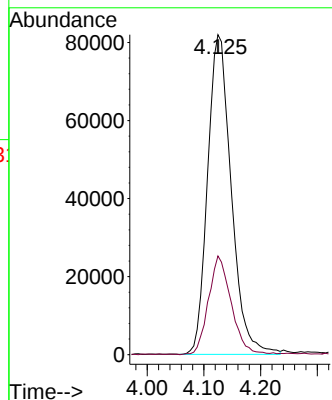
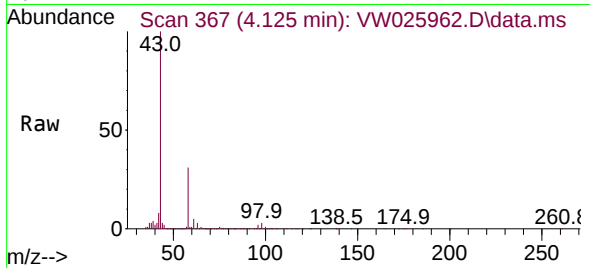




#13
Acetone
Concen: 88.619 ug/L
RT: 4.125 min Scan# 366
Delta R.T. 0.006 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

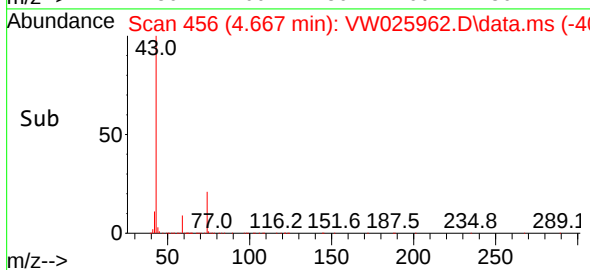
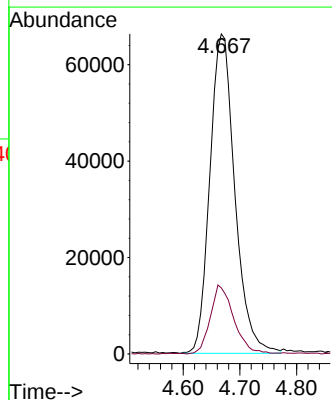
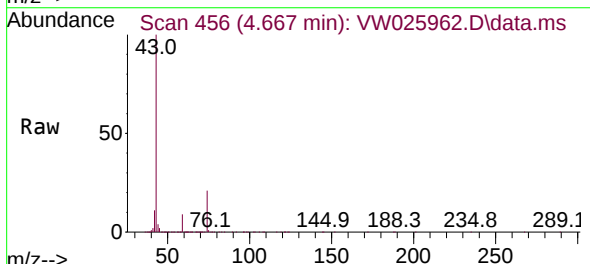
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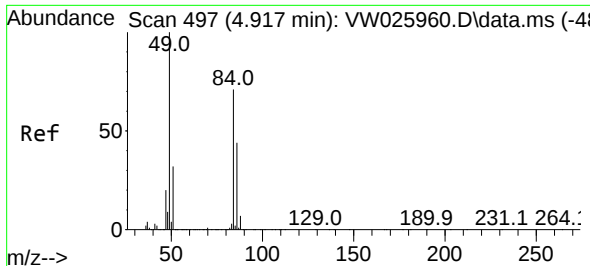
Tgt Ion: 43 Resp: 237708
Ion Ratio Lower Upper
43 100
58 29.7 0.0 58.2



#15
Methyl Acetate
Concen: 38.322 ug/L
RT: 4.667 min Scan# 456
Delta R.T. -0.000 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

Tgt Ion: 43 Resp: 202571
Ion Ratio Lower Upper
43 100
74 20.0 16.5 24.7

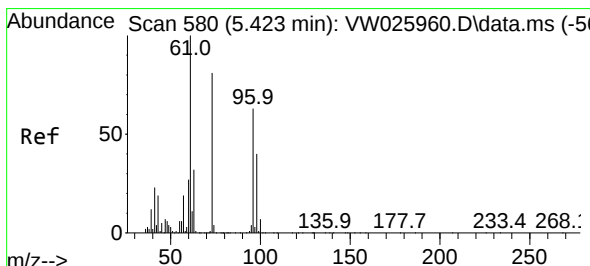
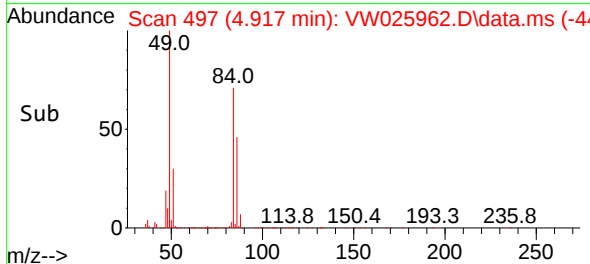
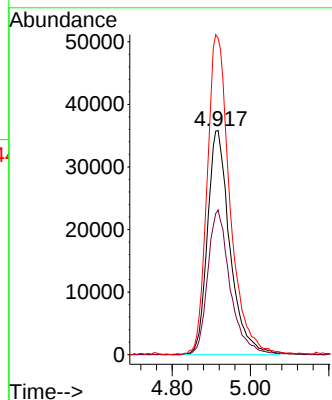
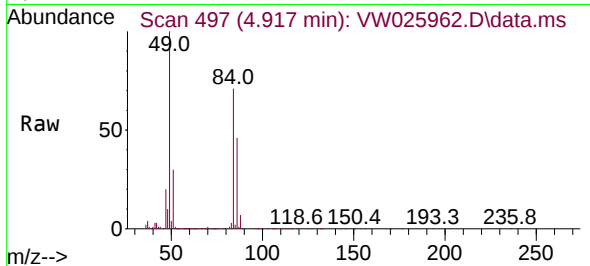




#16
Methylene chloride
Concen: 10.669 ug/L
RT: 4.917 min Scan# 497
Delta R.T. 0.000 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

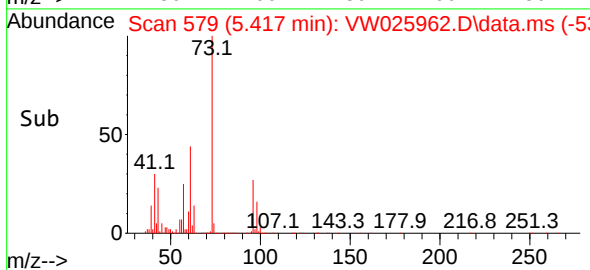
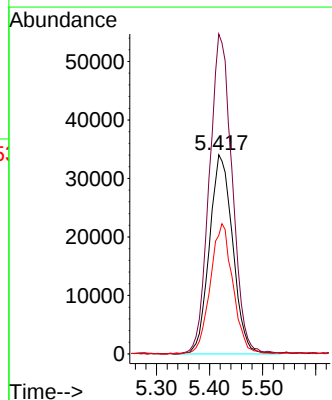
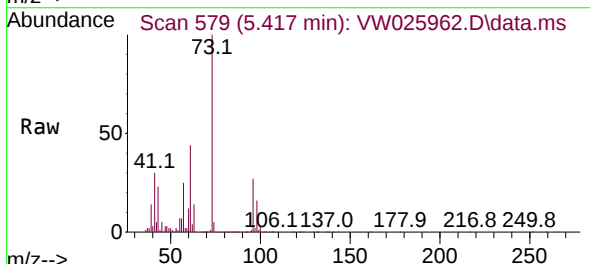
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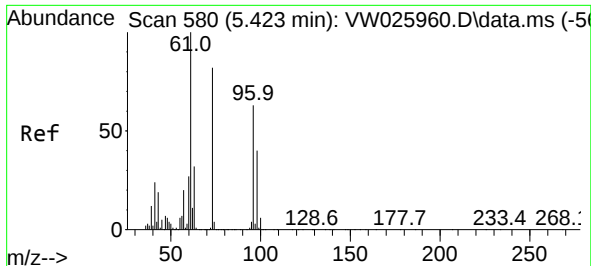
Tgt Ion: 84 Resp: 142087
Ion Ratio Lower Upper
84 100
86 64.5 41.7 77.5
49 141.2 95.3 177.1



#17
trans-1,2-Dichloroethene
Concen: 11.029 ug/L
RT: 5.417 min Scan# 579
Delta R.T. -0.006 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

Tgt Ion: 96 Resp: 103905
Ion Ratio Lower Upper
96 100
61 160.6 108.1 200.9
98 59.5 44.0 81.8

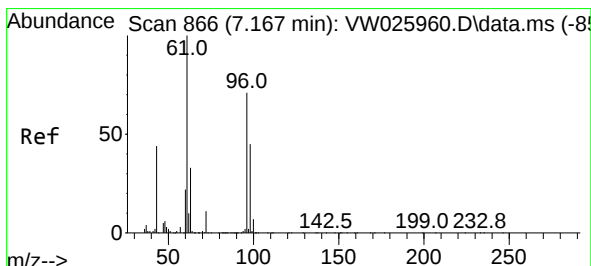
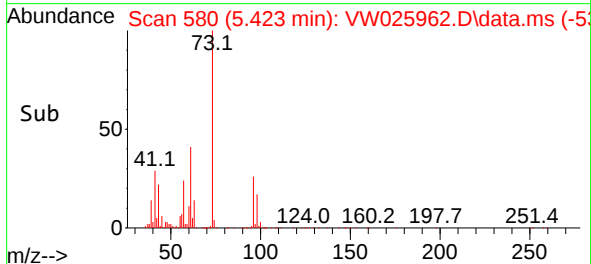
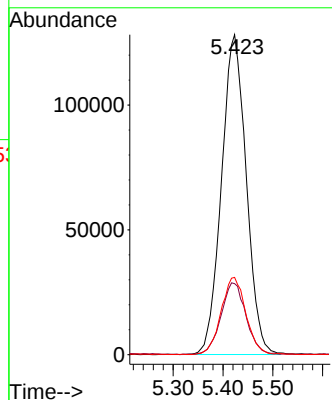
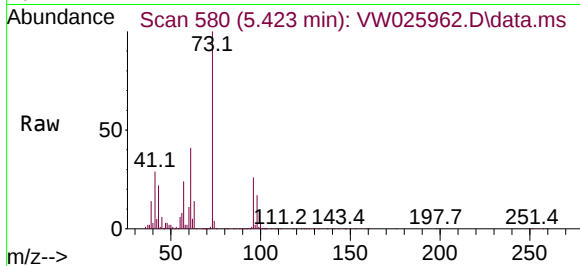




#18
Methyl tert-butyl Ether
Concen: 30.924 ug/L
RT: 5.423 min Scan# 580
Delta R.T. -0.000 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

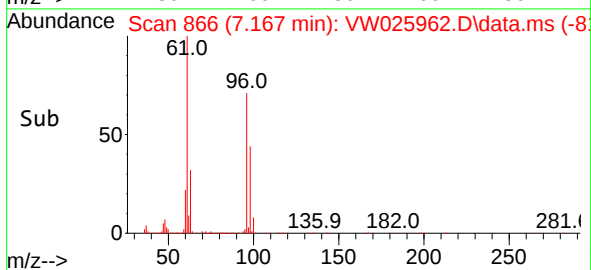
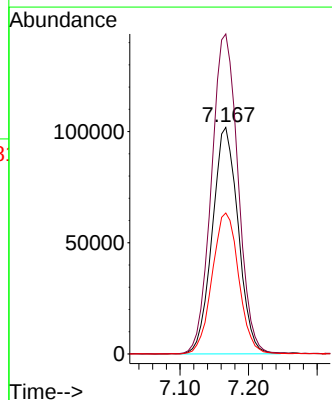
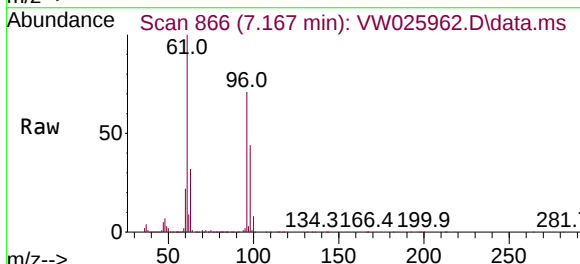
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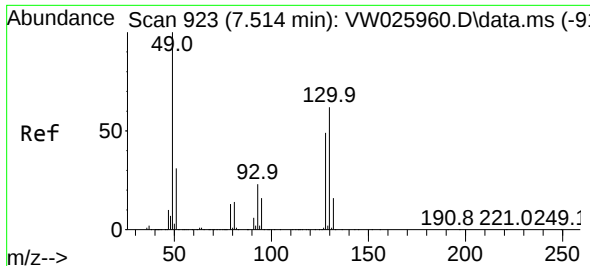
Tgt Ion: 73 Resp: 442188
Ion Ratio Lower Upper
73 100
43 22.5 18.2 27.4
57 24.0 19.2 28.8



#20
cis-1,2-Dichloroethene
Concen: 26.470 ug/L
RT: 7.167 min Scan# 866
Delta R.T. -0.000 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

Tgt Ion: 96 Resp: 267553
Ion Ratio Lower Upper
96 100
61 141.2 98.6 183.0
98 62.2 45.2 84.0

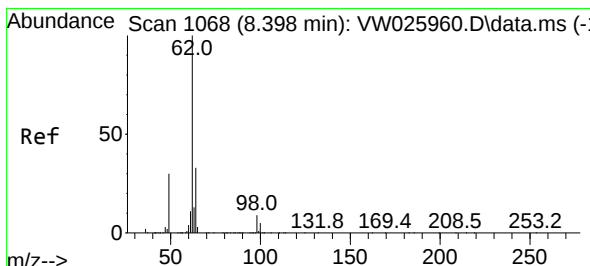
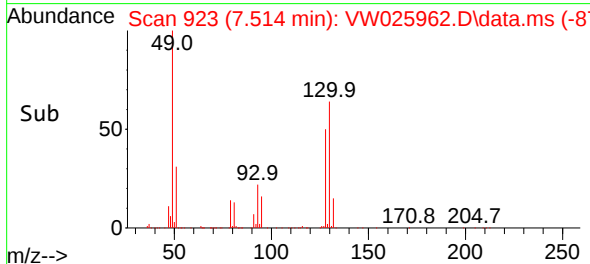
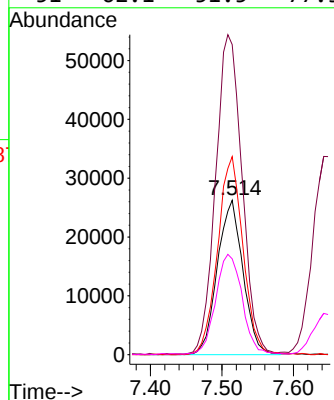
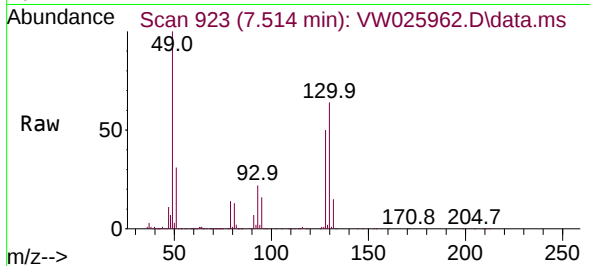




#23
Bromochloromethane
Concen: 15.265 ug/L
RT: 7.514 min Scan# 91
Delta R.T. -0.000 min
Lab File: VW025962.D
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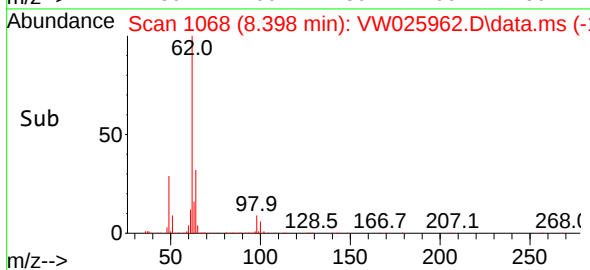
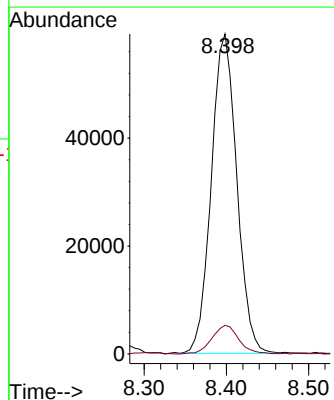
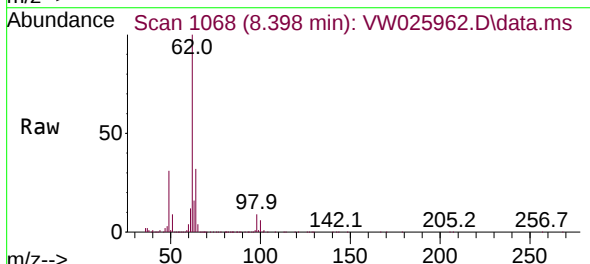
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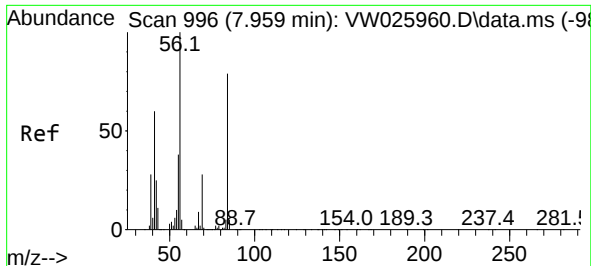
Tgt Ion:	128	Resp:	65365
Ion	Ratio	Lower	Upper
128	100		
49	200.9	151.5	281.5
130	128.3	91.3	169.6
51	62.1	51.5	77.3



#27
1,2-Dichloroethane
Concen: 10.102 ug/L
RT: 8.398 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

Tgt Ion:	62	Resp:	127634
Ion	Ratio	Lower	Upper
62	100		
98	9.0	7.2	10.8





#29

Cyclohexane

Concen: 10.183 ug/L

RT: 7.953 min Scan# 996

Delta R.T. -0.006 min

Lab File: VW025962.D

Acq: 12 May 2023 14:32

Instrument :

MSVOA_W

ClientSampleId :

GBW08

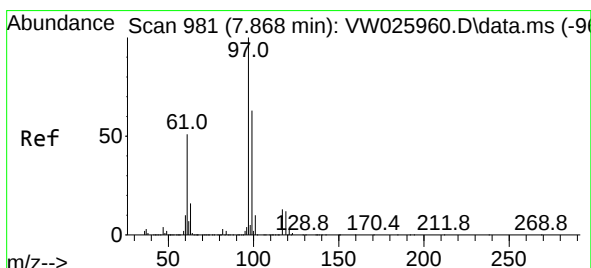
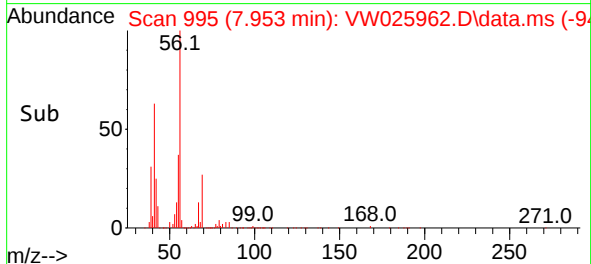
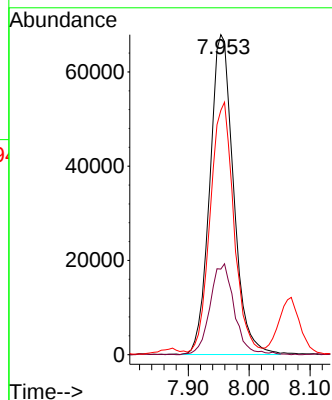
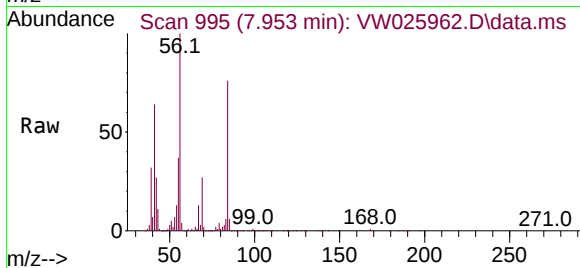
Tgt Ion: 56 Resp: 183805

Ion Ratio Lower Upper

56 100

69 28.4 23.4 35.0

84 78.8 63.3 94.9



#30

1,1,1-Trichloroethane

Concen: 10.370 ug/L

RT: 7.868 min Scan# 981

Delta R.T. -0.000 min

Lab File: VW025962.D

Acq: 12 May 2023 14:32

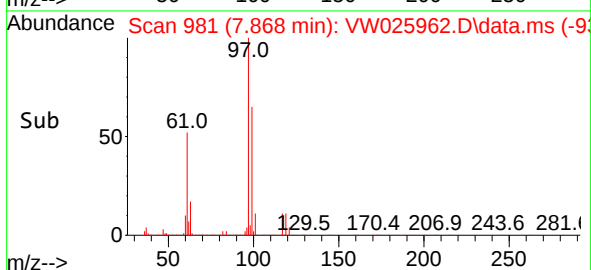
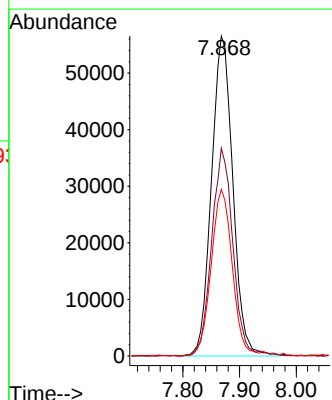
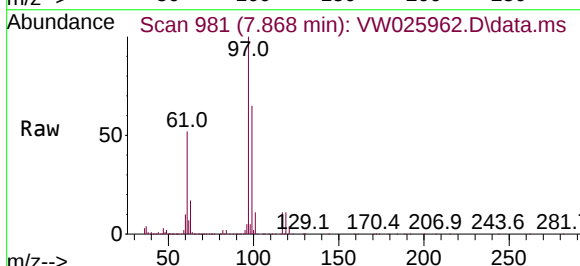
Tgt Ion: 97 Resp: 147713

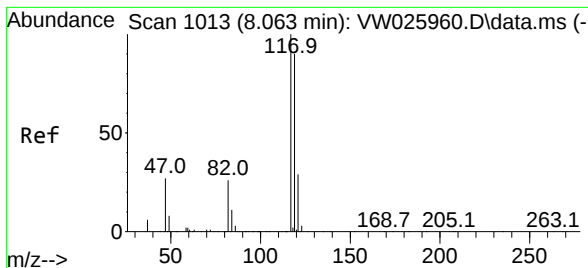
Ion Ratio Lower Upper

97 100

99 63.7 51.1 76.7

61 51.5 40.4 60.6





#31

Carbon tetrachloride

Concen: 12.968 ug/L

RT: 8.069 min Scan# 1013

Delta R.T. 0.006 min

Lab File: VW025962.D

Acq: 12 May 2023 14:32

Instrument :

MSVOA_W

ClientSampleId :

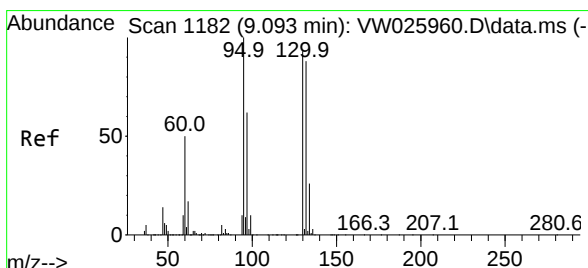
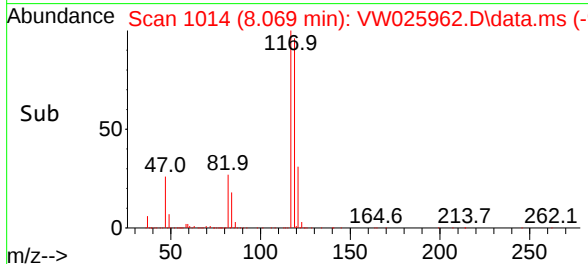
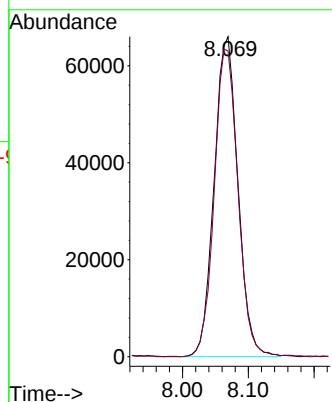
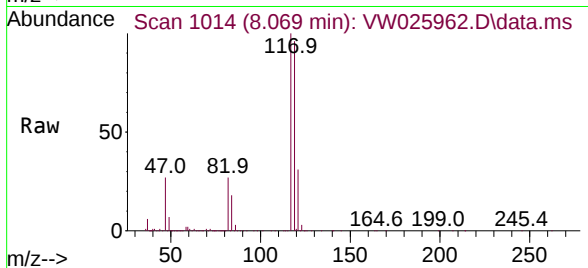
GBW08

Tgt Ion:117 Resp: 166234

Ion Ratio Lower Upper

117 100

119 95.9 76.9 115.3



#34

Trichloroethene

Concen: 40.723 ug/L

RT: 9.087 min Scan# 1181

Delta R.T. -0.006 min

Lab File: VW025962.D

Acq: 12 May 2023 14:32

Tgt Ion: 95 Resp: 421095

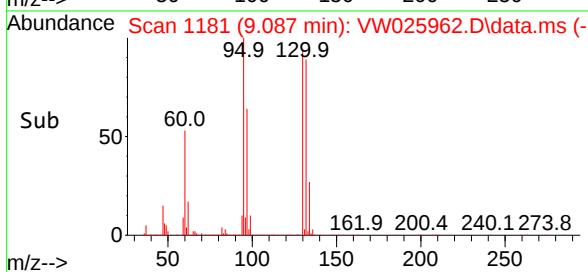
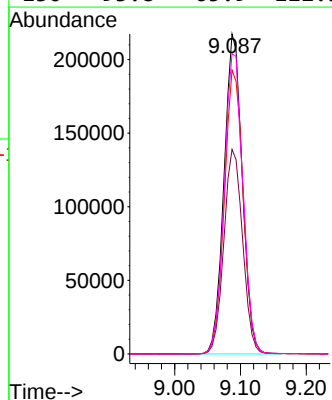
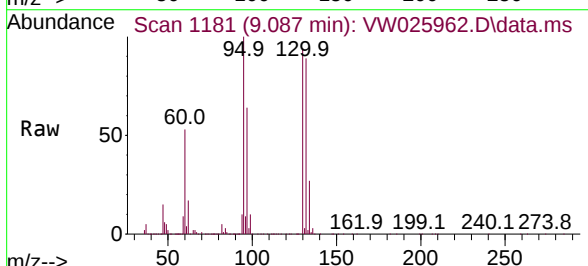
Ion Ratio Lower Upper

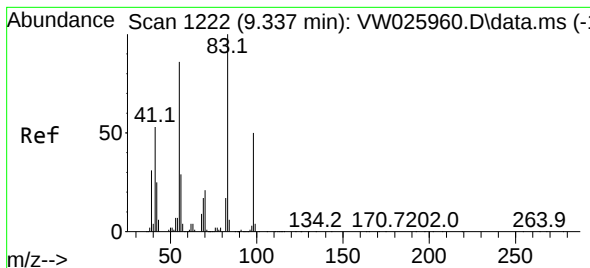
95 100

97 63.9 45.9 85.3

132 88.7 66.0 122.6

130 93.8 65.9 122.3

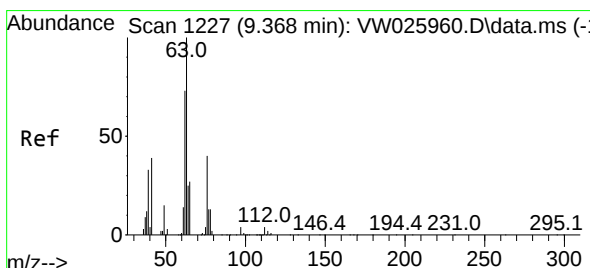
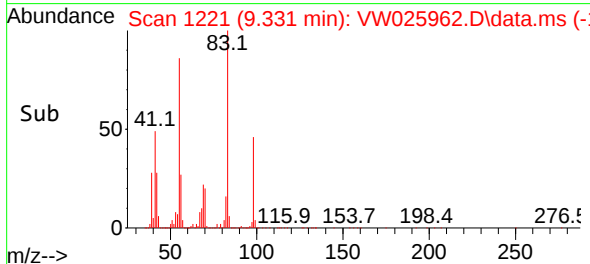
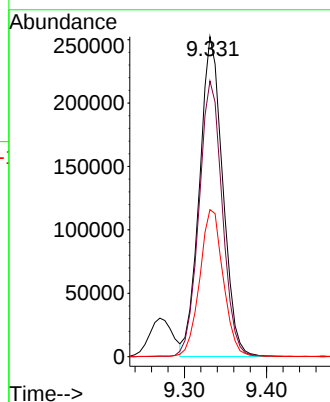
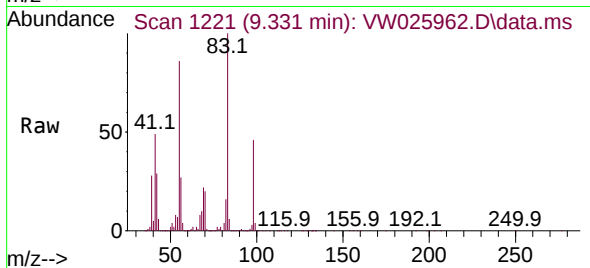




#35
Methylcyclohexane
Concen: 26.910 ug/L
RT: 9.331 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

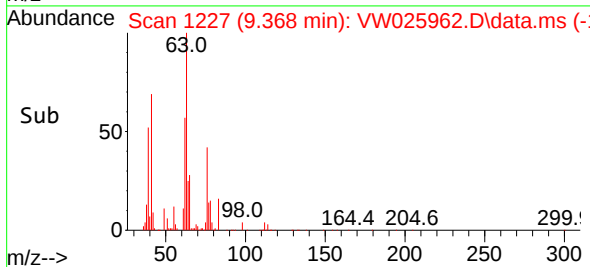
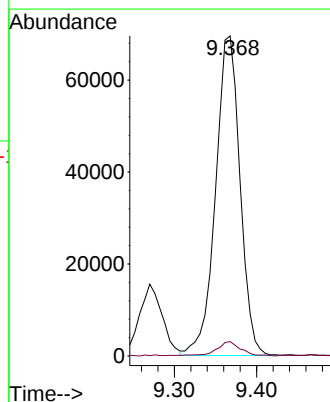
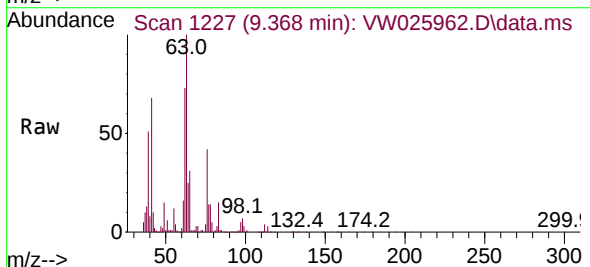
Instrument :
MSVOA_W
ClientSampleId :
GBW08

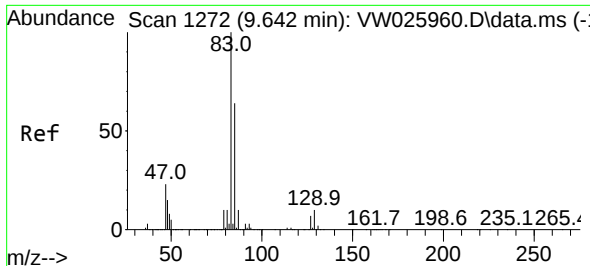
Tgt Ion: 83 Resp: 494915
Ion Ratio Lower Upper
83 100
55 86.7 69.0 103.4
98 46.5 37.1 55.7



#37
1,2-Dichloropropane
Concen: 13.043 ug/L
RT: 9.368 min Scan# 1227
Delta R.T. -0.000 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

Tgt Ion: 63 Resp: 144004
Ion Ratio Lower Upper
63 100
112 4.1 3.3 4.9

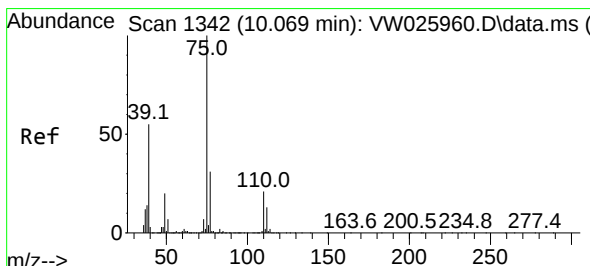
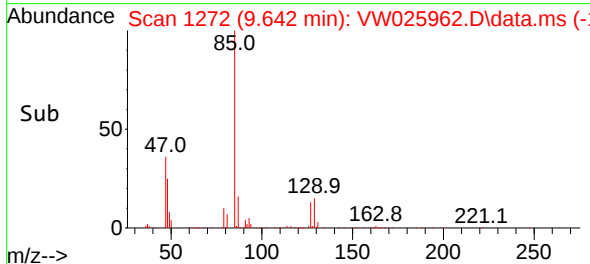
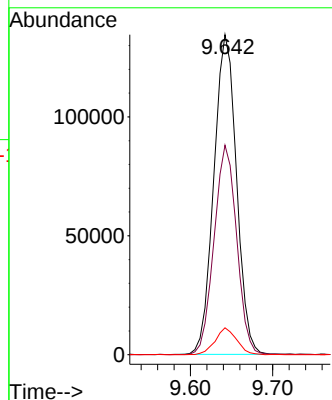
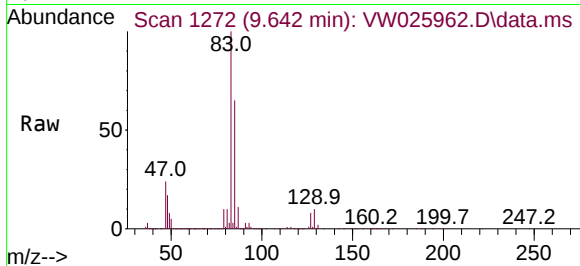




#38
Bromodichloromethane
Concen: 20.312 ug/L
RT: 9.642 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

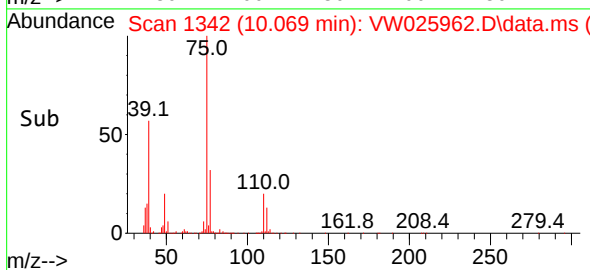
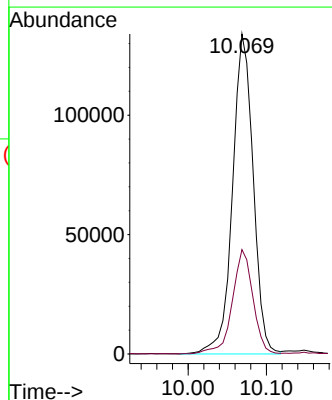
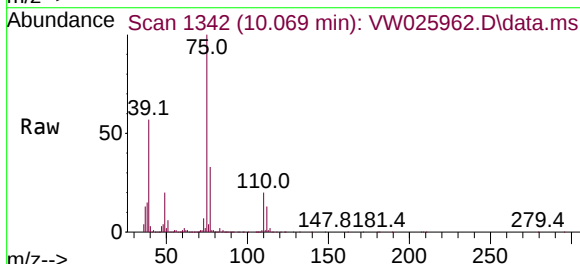
Instrument :
MSVOA_W
ClientSampleId :
GBW08

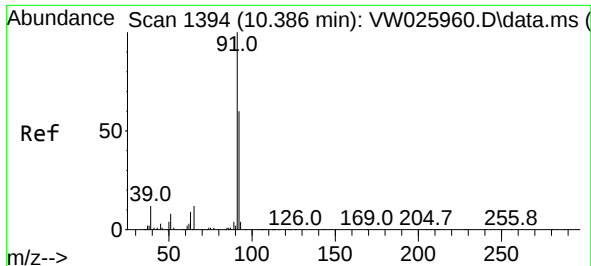
Tgt Ion: 83 Resp: 257279
Ion Ratio Lower Upper
83 100
85 65.4 44.4 82.5
127 8.4 6.5 9.7



#39
cis-1,3-Dichloropropene
Concen: 15.154 ug/L
RT: 10.069 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

Tgt Ion: 75 Resp: 245358
Ion Ratio Lower Upper
75 100
77 32.6 22.4 41.6

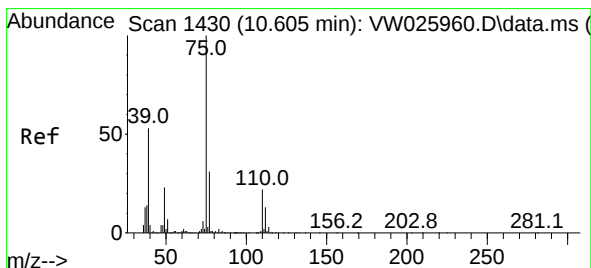
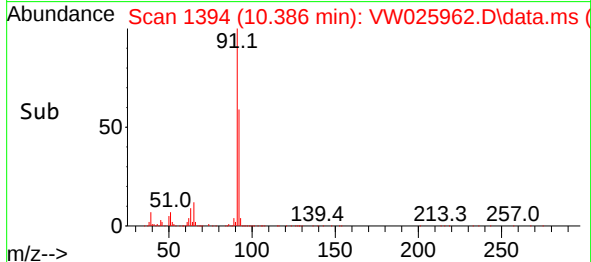
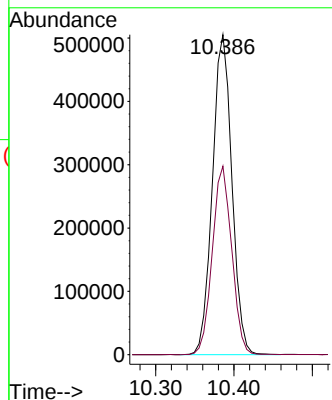
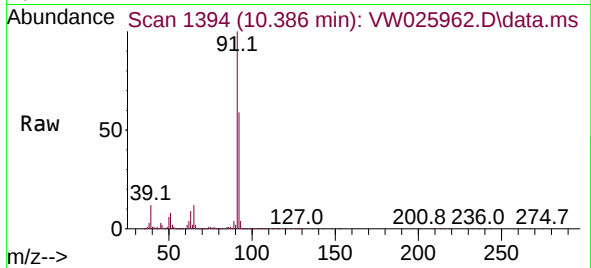




#42
Toluene
Concen: 21.185 ug/L
RT: 10.386 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

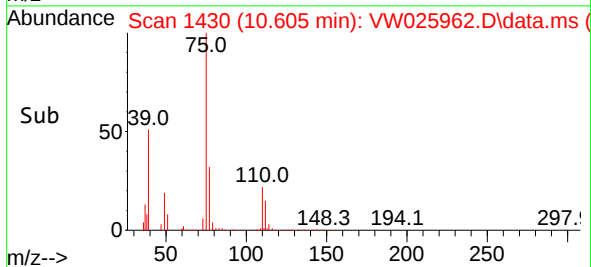
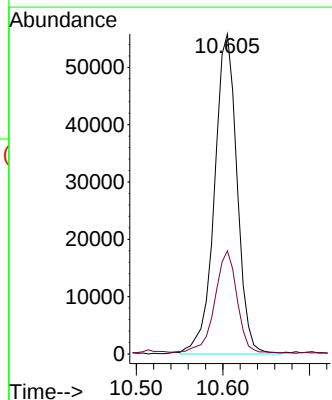
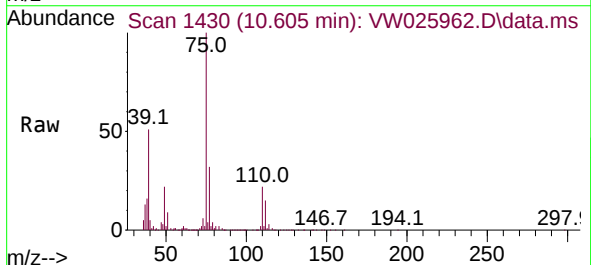
Instrument :
MSVOA_W
ClientSampleId :
GBW08

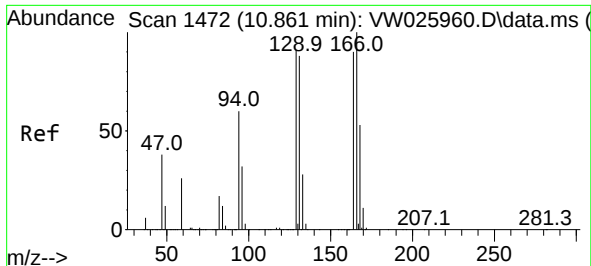
Tgt Ion: 91 Resp: 872301
Ion Ratio Lower Upper
91 100
92 58.9 40.2 74.6



#44
trans-1,3-Dichloropropene
Concen: 7.545 ug/L
RT: 10.605 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

Tgt Ion: 75 Resp: 101215
Ion Ratio Lower Upper
75 100
77 32.2 21.8 40.4

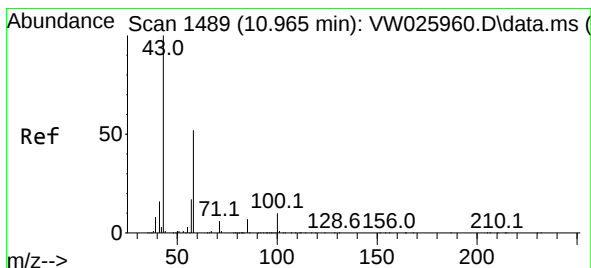
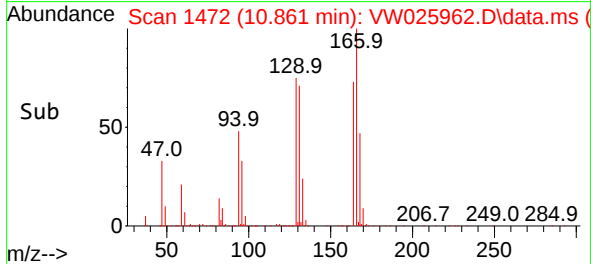
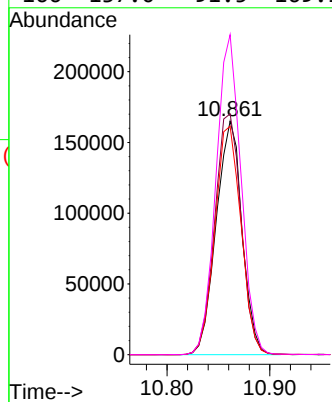
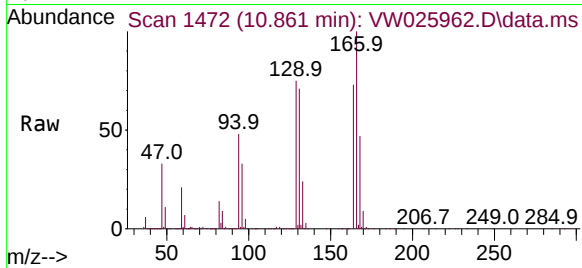




#46
Tetrachloroethene
Concen: 39.584 ug/L
RT: 10.861 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

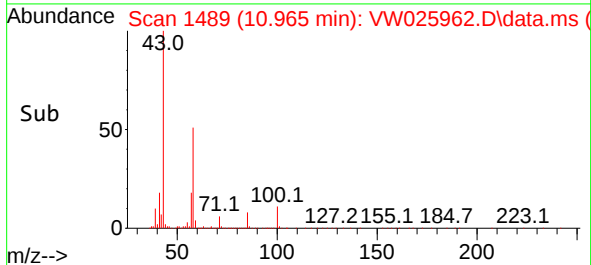
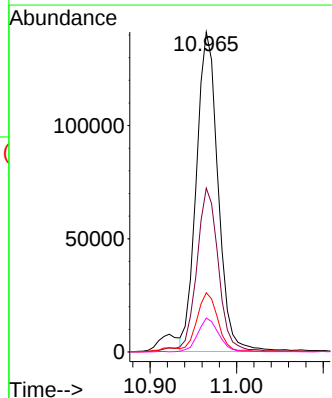
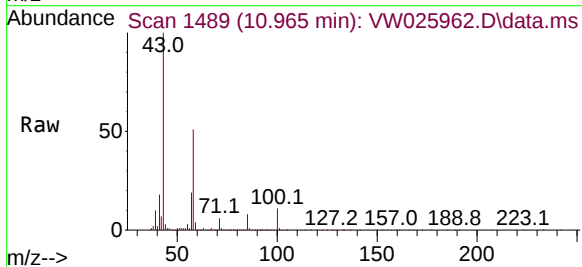
Instrument :
MSVOA_W
ClientSampleId :
GBW08

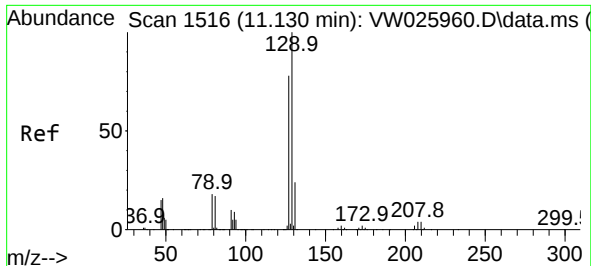
Tgt Ion:164 Resp: 287965
Ion Ratio Lower Upper
164 100
129 103.1 74.3 138.1
131 97.8 71.3 132.3
166 137.0 91.5 169.9



#48
2-Hexanone
Concen: 47.755 ug/L
RT: 10.965 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

Tgt Ion: 43 Resp: 245850
Ion Ratio Lower Upper
43 100
58 48.7 40.8 61.2
57 17.6 13.6 20.4
100 10.2 8.0 12.0





#49

Dibromochloromethane

Concen: 20.390 ug/L

RT: 11.123 min Scan# 1

Delta R.T. -0.006 min

Lab File: VW025962.D

Acq: 12 May 2023 14:32

Instrument :

MSVOA_W

ClientSampleId :

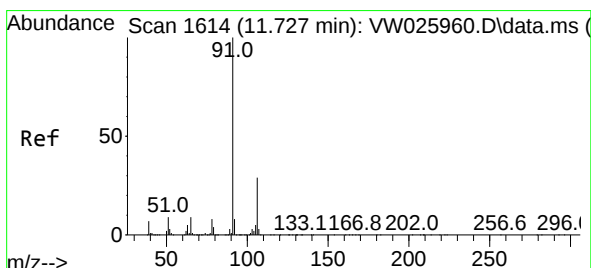
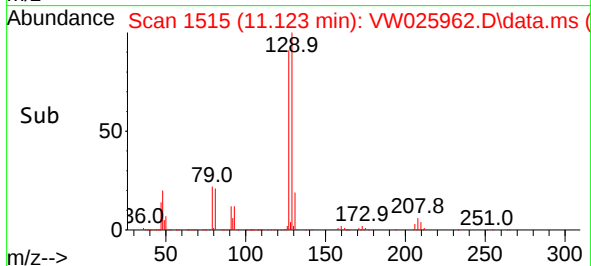
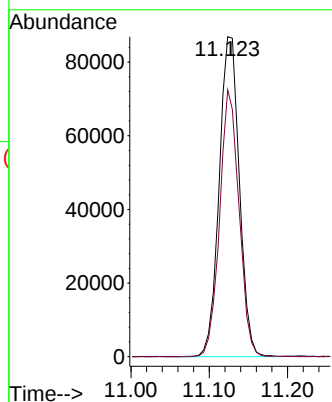
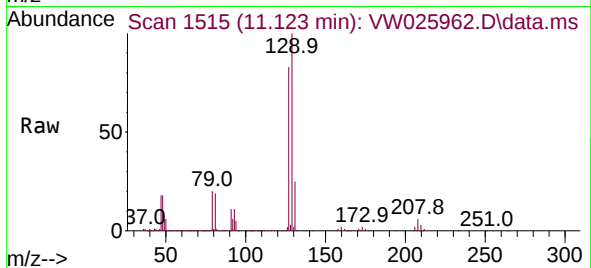
GBW08

Tgt Ion:129 Resp: 155903

Ion Ratio Lower Upper

129 100

127 83.4 56.1 104.3



#52

Ethylbenzene

Concen: 15.654 ug/L

RT: 11.727 min Scan# 1614

Delta R.T. -0.000 min

Lab File: VW025962.D

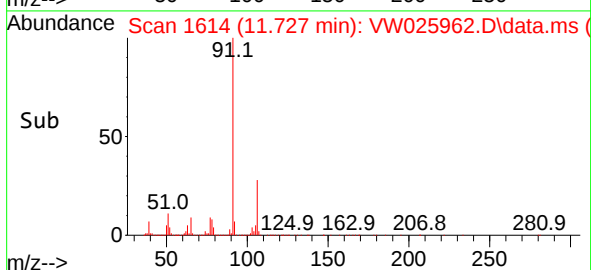
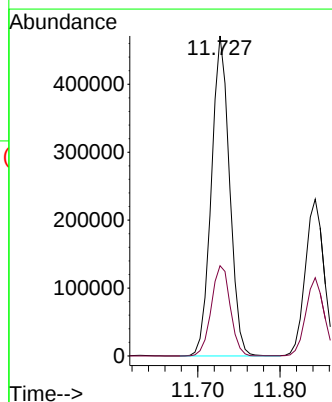
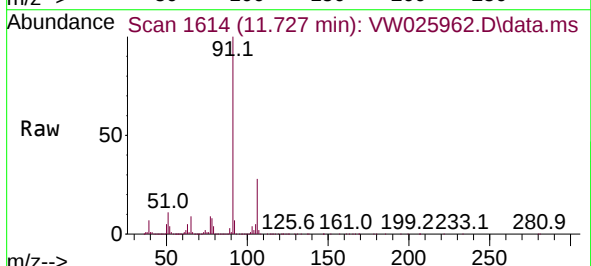
Acq: 12 May 2023 14:32

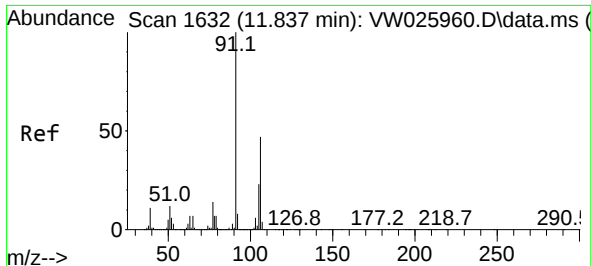
Tgt Ion: 91 Resp: 725041

Ion Ratio Lower Upper

91 100

106 28.2 20.8 38.6

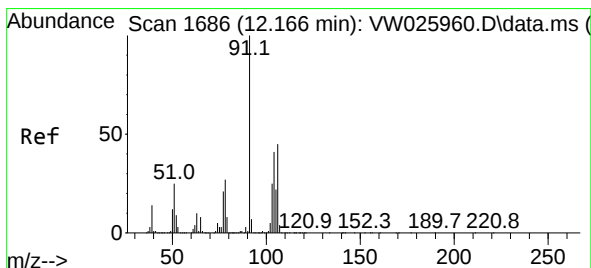
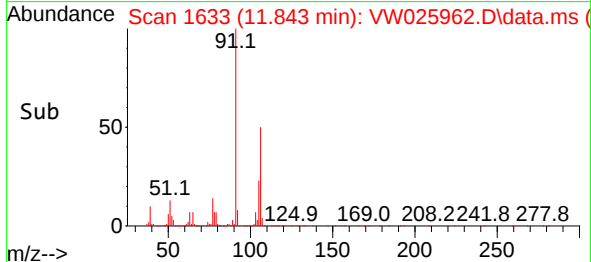
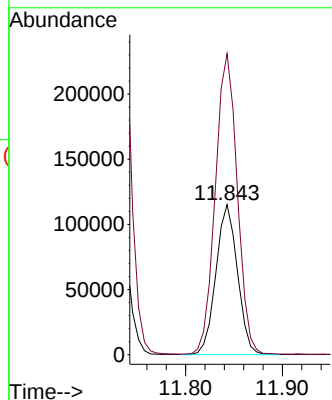
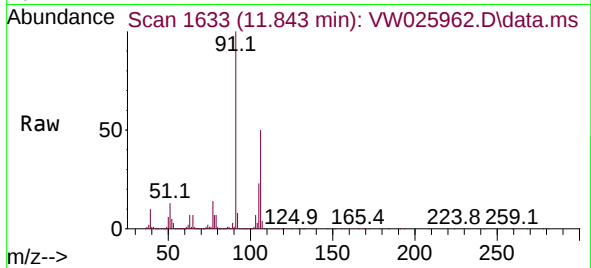




#53
m,p-Xylene
Concen: 10.422 ug/L
RT: 11.843 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

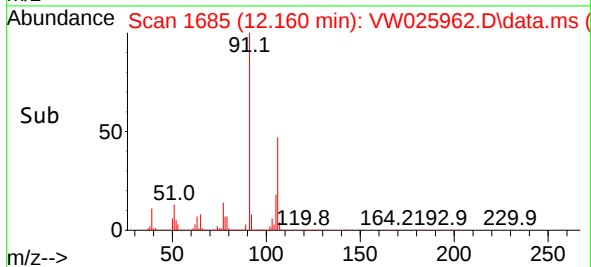
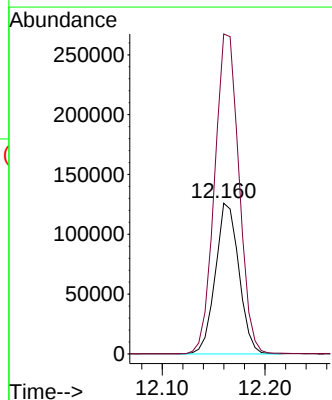
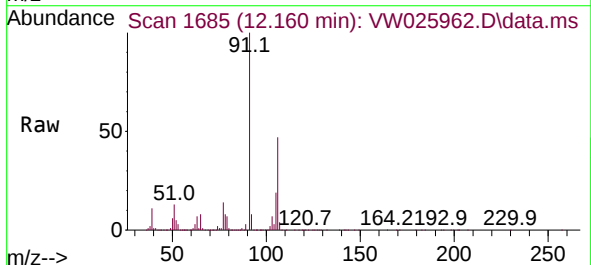
Instrument :
MSVOA_W
ClientSampleId :
GBW08

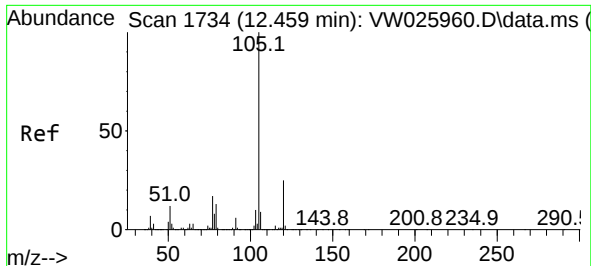
Tgt Ion:106 Resp: 177656
Ion Ratio Lower Upper
106 100
91 200.4 150.1 278.9



#54
o-Xylene
Concen: 12.469 ug/L
RT: 12.160 min Scan# 1685
Delta R.T. -0.006 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

Tgt Ion:106 Resp: 200347
Ion Ratio Lower Upper
106 100
91 212.2 157.8 293.1

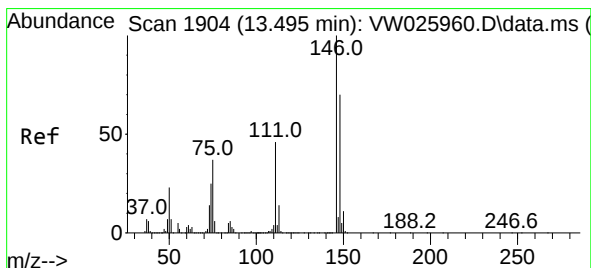
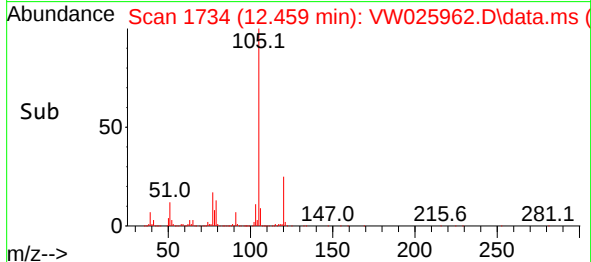
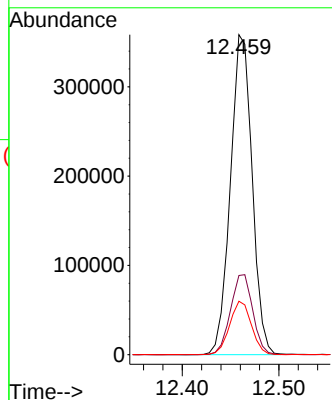
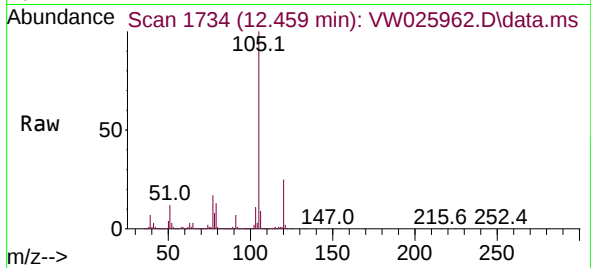




#60
Isopropylbenzene
Concen: 12.413 ug/L
RT: 12.459 min Scan# 1734
Delta R.T. -0.000 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

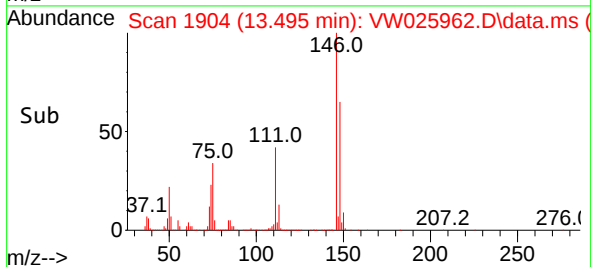
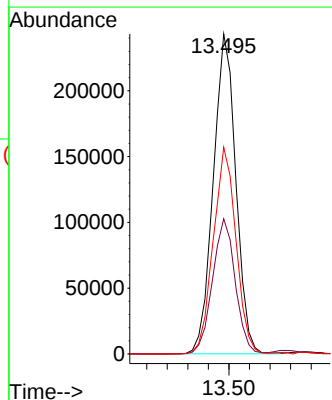
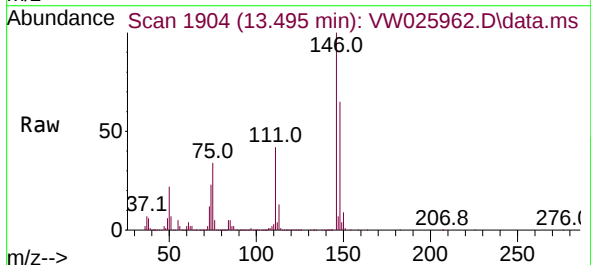
Instrument :
MSVOA_W
ClientSampleId :
GBW08

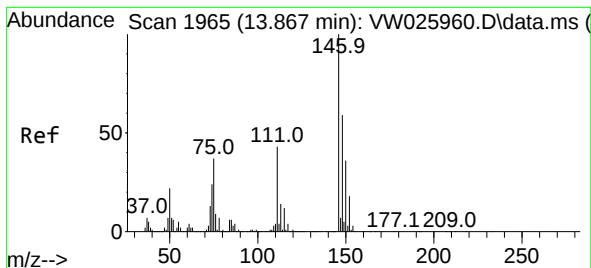
Tgt Ion:105 Resp: 560119
Ion Ratio Lower Upper
105 100
120 25.6 21.1 31.7
77 16.8 13.4 20.0



#64
1,3-Dichlorobenzene
Concen: 19.036 ug/L
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW025962.D
Acq: 12 May 2023 14:32

Tgt Ion:146 Resp: 369760
Ion Ratio Lower Upper
146 100
111 42.3 30.4 56.4
148 64.6 40.8 75.8





#67

1,2-Dichlorobenzene

Concen: 9.793 ug/L

RT: 13.867 min Scan# 1965

Delta R.T. -0.000 min

Lab File: VW025962.D

Acq: 12 May 2023 14:32

Instrument :

MSVOA_W

ClientSampleId :

GBW08

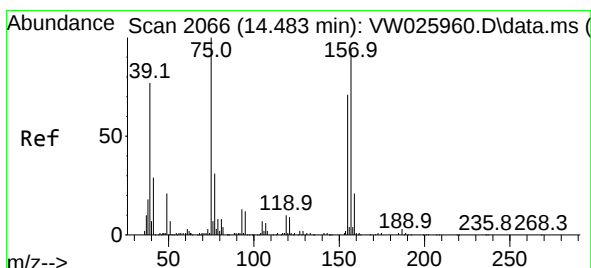
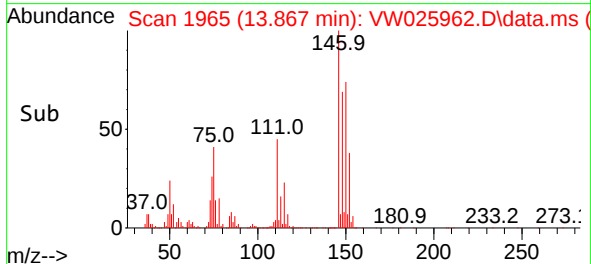
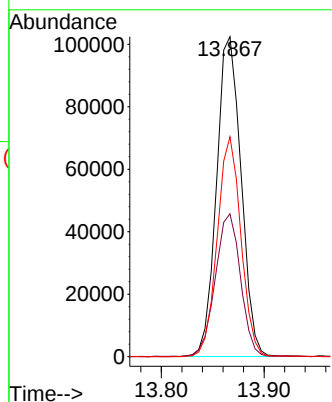
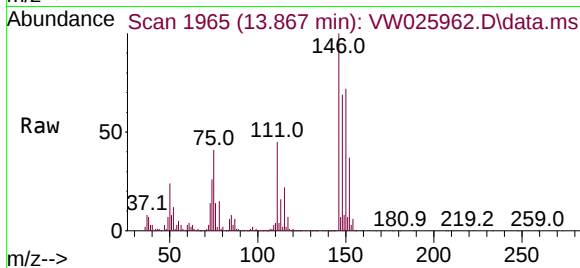
Tgt Ion:146 Resp: 169650

Ion Ratio Lower Upper

146 100

111 44.6 37.7 56.5

148 68.7 49.4 74.0



#68

1,2-Dibromo-3-chloropropane

Concen: 17.689 ug/L

RT: 14.476 min Scan# 2065

Delta R.T. -0.006 min

Lab File: VW025962.D

Acq: 12 May 2023 14:32

Tgt Ion: 75 Resp: 28777

Ion Ratio Lower Upper

75 100

155 64.1 56.3 84.5

157 80.1 66.3 99.5

