

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122821\
 Data File : VW021674.D
 Acq On : 28 Dec 2021 14:57
 Operator : SY/VA
 Sample : M5174-17
 Misc : 5.00g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 GBC26

Quant Time: Dec 29 00:25:30 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM122821SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Dec 29 00:22:49 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	98606	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.634	117	95018	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	55509	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.349	65	48532	24.963	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	99.840%
7) Chloroethane-d5	2.879	69	32248	24.627	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.520%
11) 1,1-Dichloroethene-d2	4.019	63	65563	23.044	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	92.160%
21) 2-Butanone-d5	7.086	46	13309	46.791	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.580%
24) Chloroform-d	7.647	84	69202	22.467	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	89.880%
26) 1,2-Dichloroethane-d4	8.305	65	37282	22.922	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	91.680%
32) Benzene-d6	8.275	84	136646	24.220	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	96.880%
36) 1,2-Dichloropropane-d6	9.275	67	36827	24.062	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	96.240%
41) Toluene-d8	10.323	98	137462	24.454	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	97.800%
43) trans-1,3-Dichloroprop...	10.579	79	17924	24.067	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	96.280%
47) 2-Hexanone-d5	10.921	63	10950	47.174	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.340%
56) 1,1,2,2-Tetrachloroeth...	12.689	84	28805	22.828	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	91.320%
66) 1,2-Dichlorobenzene-d4	13.853	152	50325	23.708	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	94.840%
Target Compounds						
					Qvalue	
3) Chloromethane	2.215	50	27291	18.071	ug/L	99
6) Bromomethane	2.776	94	11688	8.065	ug/L	99
9) Trichlorofluoromethane	3.251	101	18905	14.107	ug/L	98
12) 1,1-Dichloroethene	4.038	96	29095	19.931	ug/L	78
13) Acetone	4.135	43	21493	88.995	ug/L	94
15) Methyl Acetate	4.672	43	17592	38.177	ug/L	# 88
16) Methylene chloride	4.916	84	17992	10.221	ug/L	80
17) trans-1,2-Dichloroethene	5.428	96	16003	10.377	ug/L	85
18) Methyl tert-butyl Ether	5.428	73	66755	31.088	ug/L	93
20) cis-1,2-Dichloroethene	7.171	96	41708	26.055	ug/L	76
23) Bromochloromethane	7.513	128	11170	14.436	ug/L	# 67
27) 1,2-Dichloroethane	8.403	62	17694	9.829	ug/L	98
29) Cyclohexane	7.958	56	22091	10.054	ug/L	# 80
30) 1,1,1-Trichloroethane	7.872	97	25808	10.294	ug/L	95
31) Carbon tetrachloride	8.074	117	31594	12.960	ug/L	100
34) Trichloroethene	9.092	95	68102	41.379	ug/L	90
35) Methylcyclohexane	9.336	83	70132	25.827	ug/L	# 84
37) 1,2-Dichloropropane	9.366	63	17015	13.243	ug/L	# 97
38) Bromodichloromethane	9.646	83	40868	20.839	ug/L	# 97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122821\
 Data File : VW021674.D
 Acq On : 28 Dec 2021 14:57
 Operator : SY/VA
 Sample : M5174-17
 Misc : 5.00g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 GBC26

Quant Time: Dec 29 00:25:30 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM122821SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Dec 29 00:22:49 2021
 Response via : Initial Calibration

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

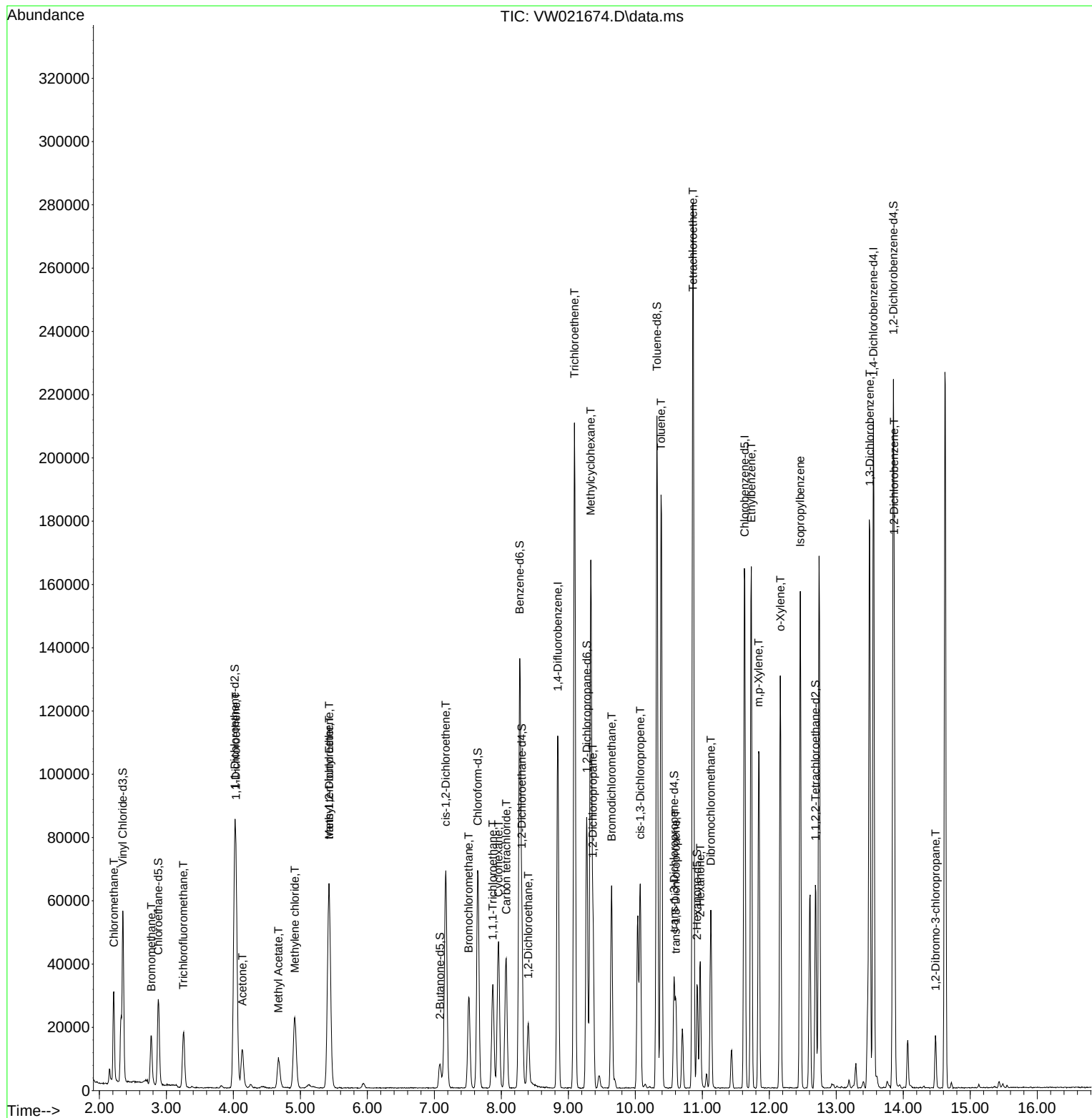
39) cis-1,3-Dichloropropene	10.073	75	35664	16.989	ug/L	97
42) Toluene	10.384	91	137558	20.554	ug/L	98
44) trans-1,3-Dichloropropene	10.604	75	14588	7.734	ug/L	97
46) Tetrachloroethene	10.860	164	65739	42.654	ug/L	95
48) 2-Hexanone	10.969	43	24439	50.844	ug/L #	94
49) Dibromochloromethane	11.128	129	29013	20.234	ug/L	98
52) Ethylbenzene	11.731	91	115754	15.409	ug/L	98
53) m,p-Xylene	11.841	106	30106	10.001	ug/L	87
54) o-Xylene	12.164	106	34003	11.918	ug/L	100
60) Isopropylbenzene	12.463	105	97276	12.571	ug/L	95
64) 1,3-Dichlorobenzene	13.499	146	74309	20.340	ug/L	94
67) 1,2-Dichlorobenzene	13.865	146	33810	10.600	ug/L	96
68) 1,2-Dibromo-3-chloropr...	14.481	75	3859	20.632	ug/L #	58

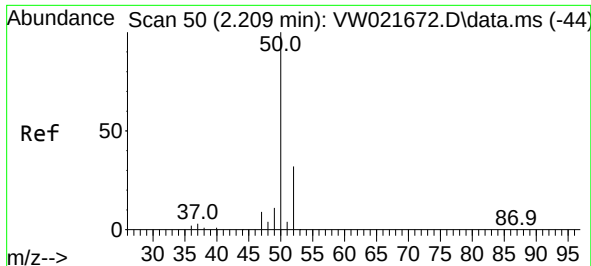
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122821\
Data File : VW021674.D
Acq On : 28 Dec 2021 14:57
Operator : SY/VA
Sample : M5174-17
Misc : 5.00g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
GBC26

Quant Time: Dec 29 00:25:30 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM122821SMA.M
Quant Title : SFAM01.0
QLast Update : Wed Dec 29 00:22:49 2021
Response via : Initial Calibration

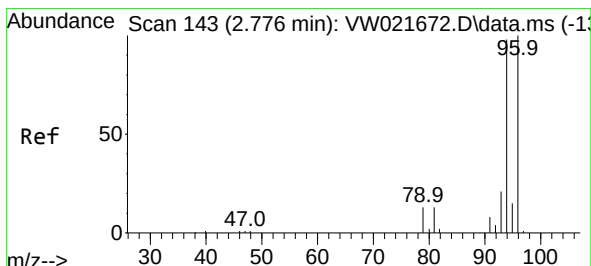
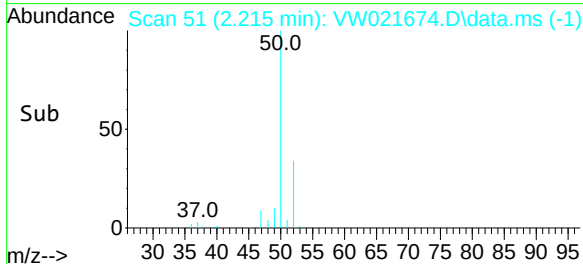
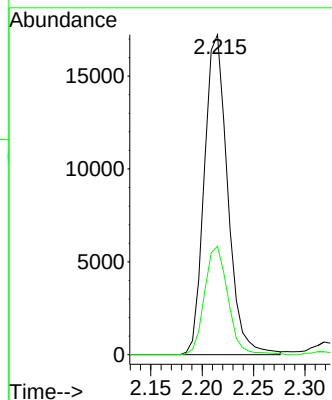
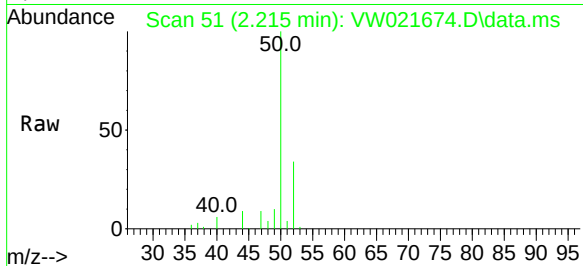




#3
Chloromethane
Concen: 18.071 ug/L
RT: 2.215 min Scan# 51
Delta R.T. 0.006 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

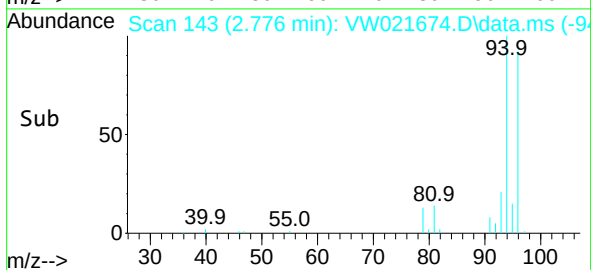
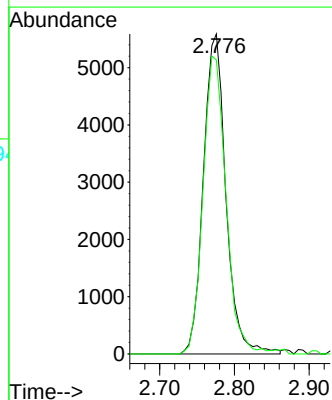
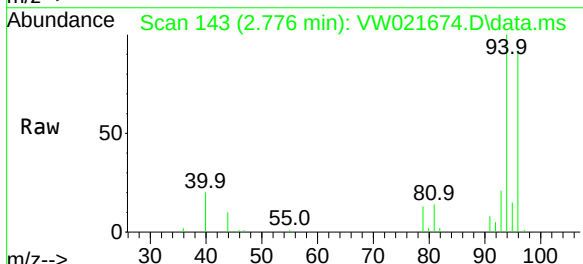
Instrument :
MSVOA_W
ClientSampleId :
GBC26

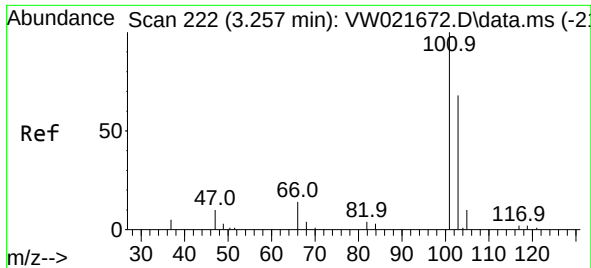
Tgt Ion: 50 Resp: 27291
Ion Ratio Lower Upper
50 100
52 33.9 23.4 43.6



#6
Bromomethane
Concen: 8.065 ug/L
RT: 2.776 min Scan# 143
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

Tgt Ion: 94 Resp: 11688
Ion Ratio Lower Upper
94 100
96 91.9 64.8 120.4

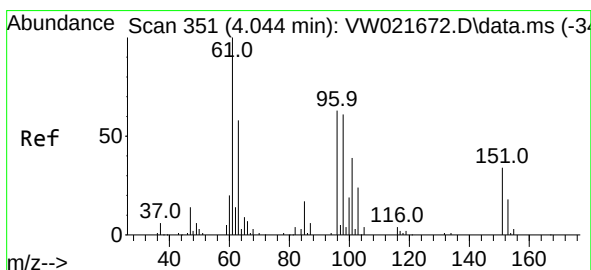
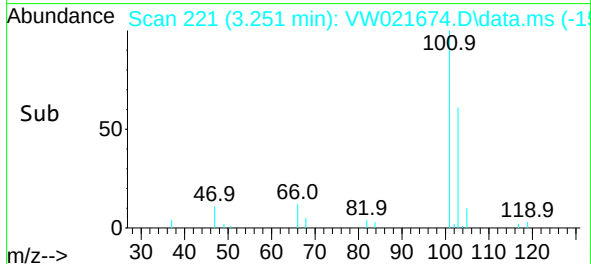
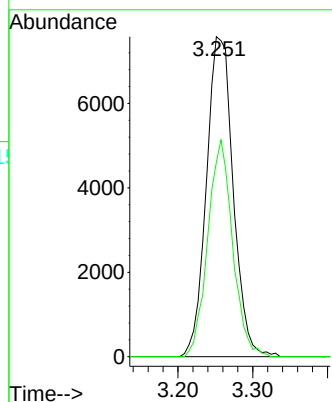
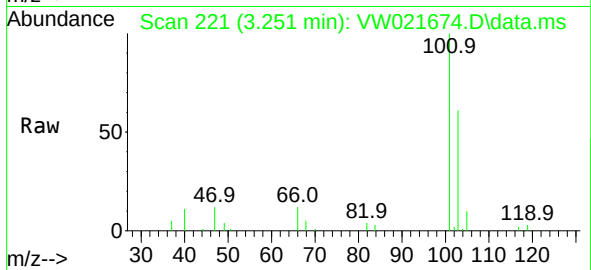




#9
 Trichlorofluoromethane
 Concen: 14.107 ug/L
 RT: 3.251 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VW021674.D
 Acq: 28 Dec 2021 14:57

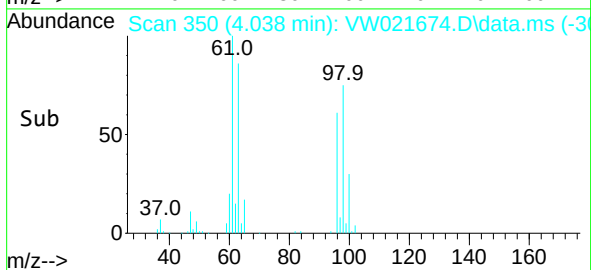
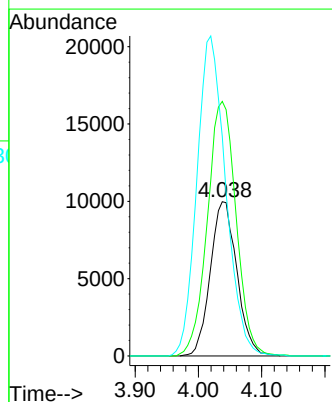
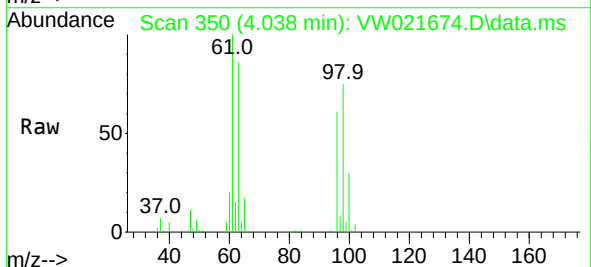
Instrument :
 MSVOA_W
 ClientSampleId :
 GBC26

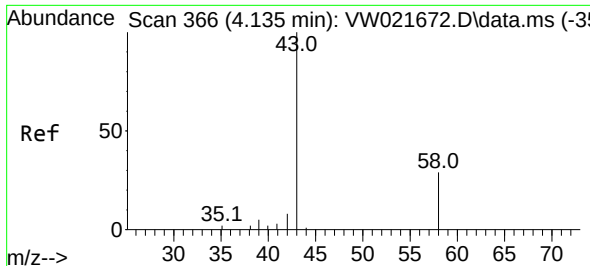
Tgt Ion:101 Resp: 18905
 Ion Ratio Lower Upper
 101 100
 103 62.8 51.4 77.2



#12
 1,1-Dichloroethene
 Concen: 19.931 ug/L
 RT: 4.038 min Scan# 350
 Delta R.T. -0.006 min
 Lab File: VW021674.D
 Acq: 28 Dec 2021 14:57

Tgt Ion: 96 Resp: 29095
 Ion Ratio Lower Upper
 96 100
 61 165.0 138.3 256.9
 63 142.3 82.6 153.4

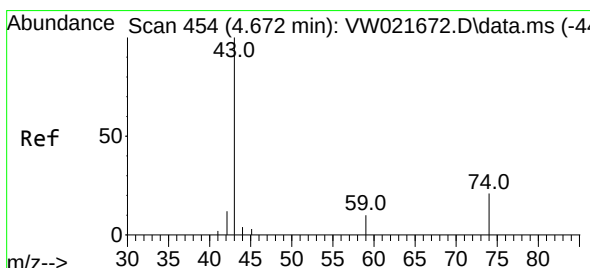
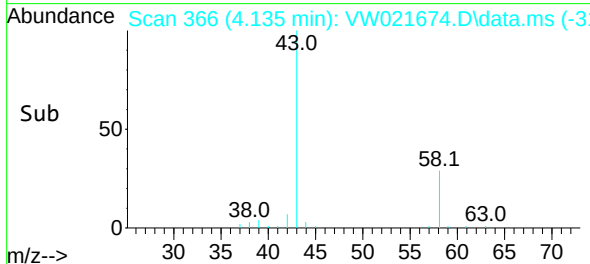
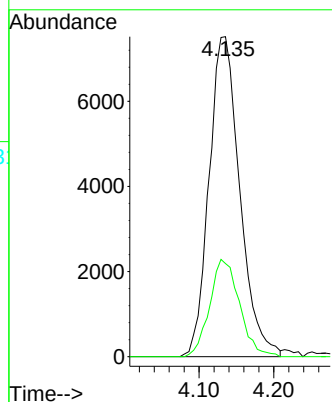
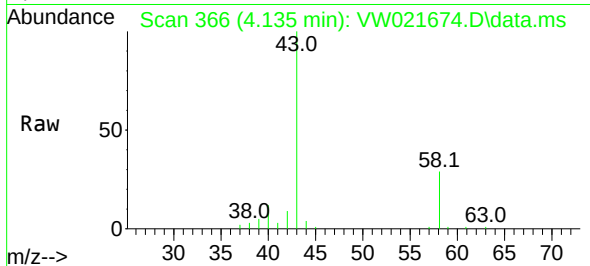




#13
Acetone
Concen: 88.995 ug/L
RT: 4.135 min Scan# 366
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

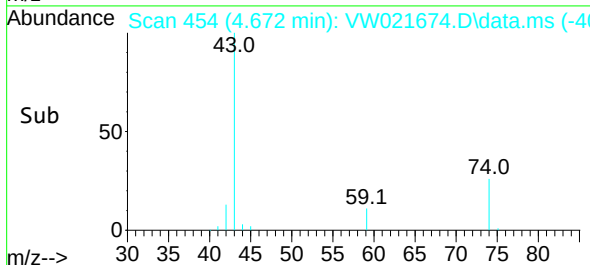
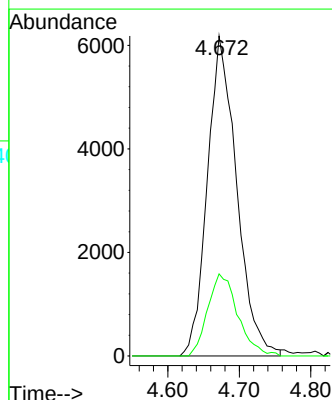
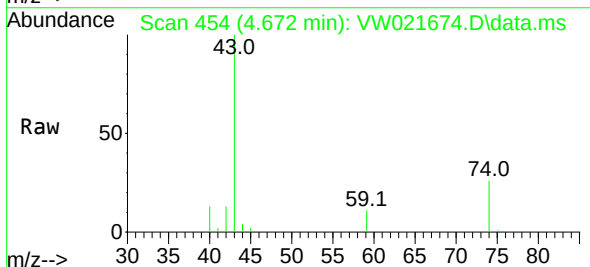
Instrument :
MSVOA_W
ClientSampleId :
GBC26

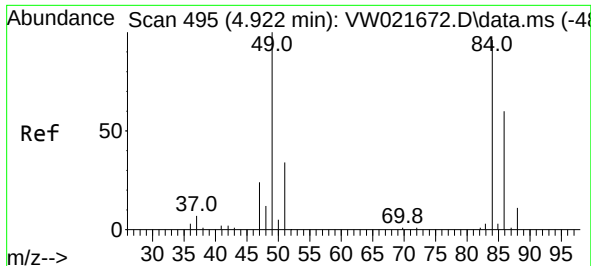
Tgt Ion: 43 Resp: 21493
Ion Ratio Lower Upper
43 100
58 29.4 0.0 52.8



#15
Methyl Acetate
Concen: 38.177 ug/L
RT: 4.672 min Scan# 454
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

Tgt Ion: 43 Resp: 17592
Ion Ratio Lower Upper
43 100
74 26.0 16.4 24.6#

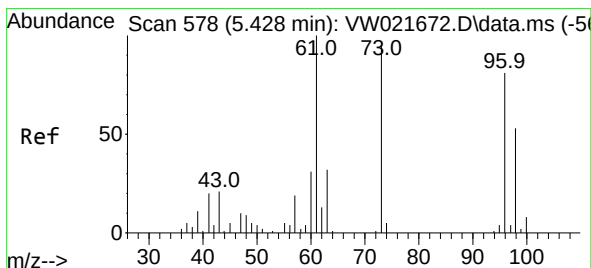
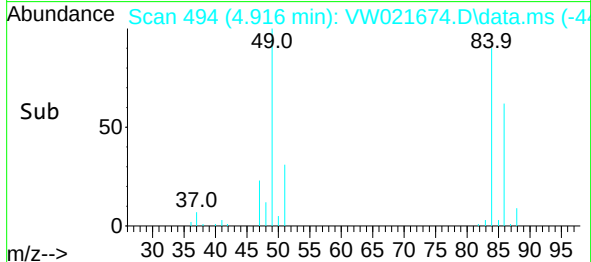
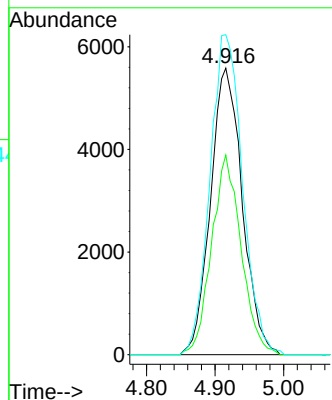
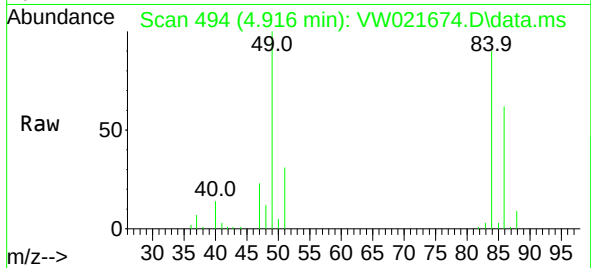




#16
Methylene chloride
Concen: 10.221 ug/L
RT: 4.916 min Scan# 49
Delta R.T. -0.006 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

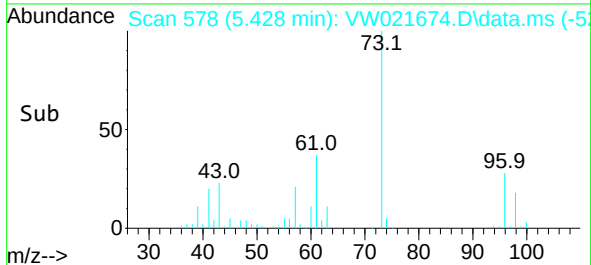
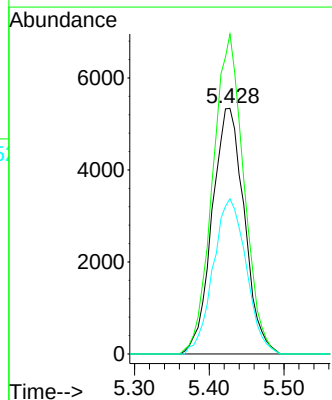
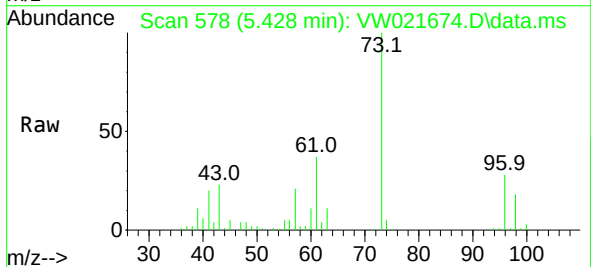
Instrument :
MSVOA_W
ClientSampleId :
GBC26

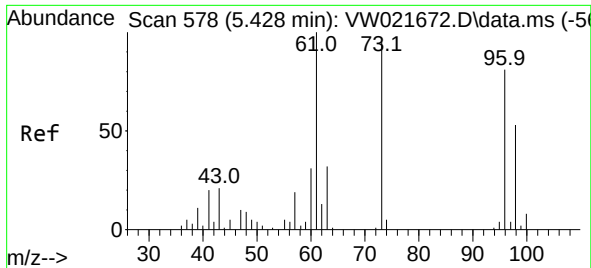
Tgt Ion: 84 Resp: 17992
Ion Ratio Lower Upper
84 100
86 69.7 45.5 84.5
49 111.7 100.5 186.7



#17
trans-1,2-Dichloroethene
Concen: 10.377 ug/L
RT: 5.428 min Scan# 578
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

Tgt Ion: 96 Resp: 16003
Ion Ratio Lower Upper
96 100
61 130.3 107.4 199.4
98 63.2 41.2 76.6

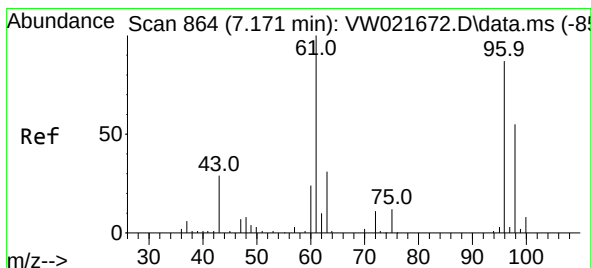
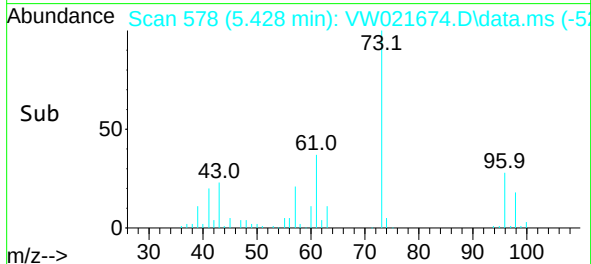
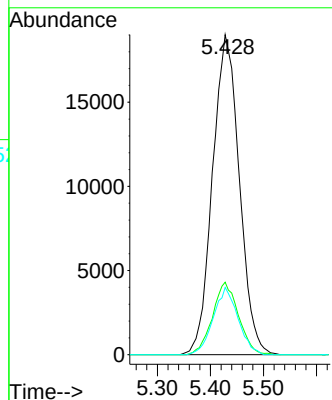
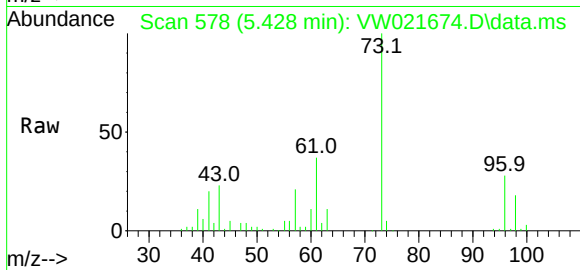




#18
Methyl tert-butyl Ether
Concen: 31.088 ug/L
RT: 5.428 min Scan# 518
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

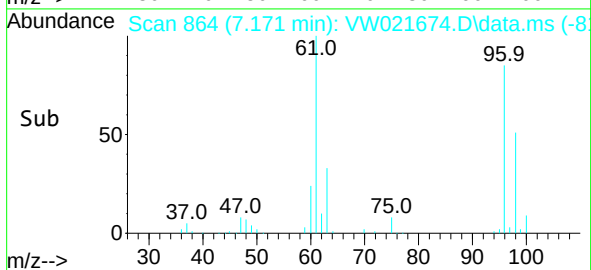
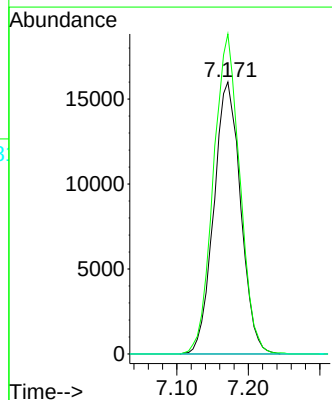
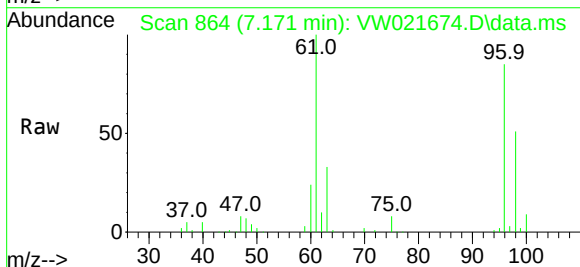
Instrument :
MSVOA_W
ClientSampleId :
GBC26

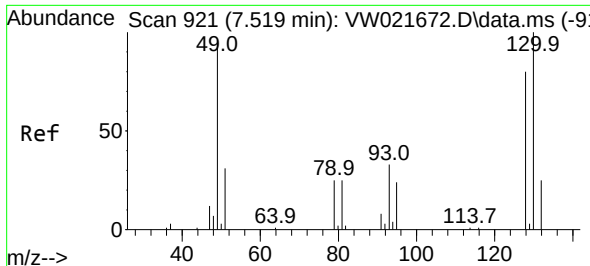
Tgt Ion: 73	Resp: 66755
Ion Ratio	Lower Upper
73 100	
43 21.9	19.5 29.3
57 19.4	19.3 28.9



#20
cis-1,2-Dichloroethene
Concen: 26.055 ug/L
RT: 7.171 min Scan# 864
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

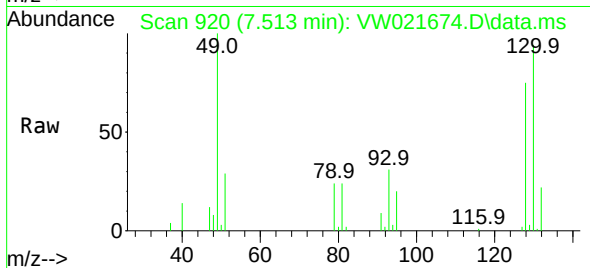
Tgt Ion: 96	Resp: 41708		
Ion Ratio	Lower	Upper	
96	100		
61	117.6	103.7	192.7
68	0.0	0.0	0.0



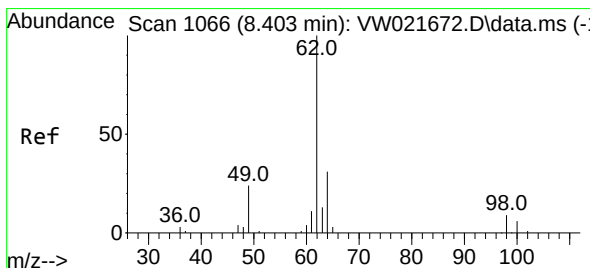
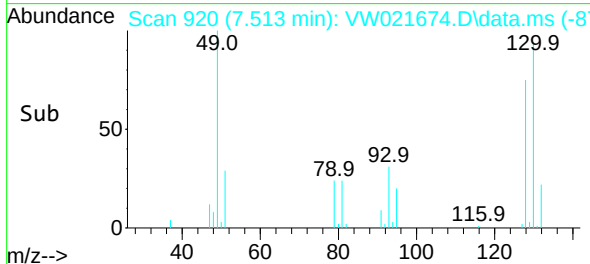
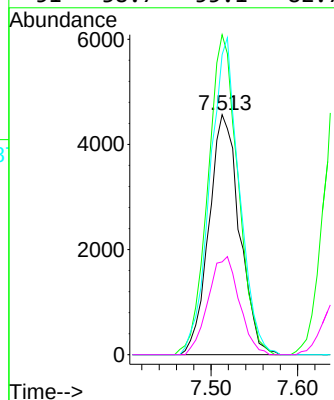


#23
Bromochloromethane
Concen: 14.436 ug/L
RT: 7.513 min Scan# 911
Delta R.T. -0.006 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

Instrument :
MSVOA_W
ClientSampleId :
GBC26

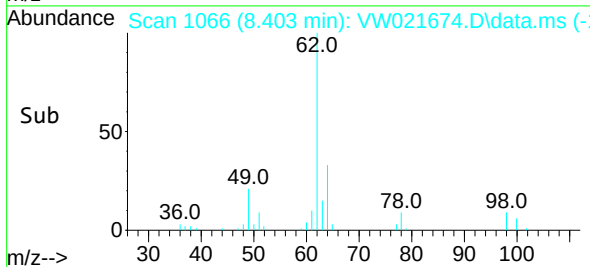
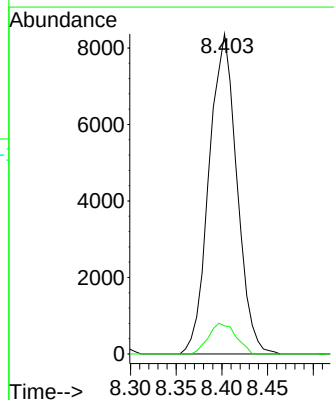
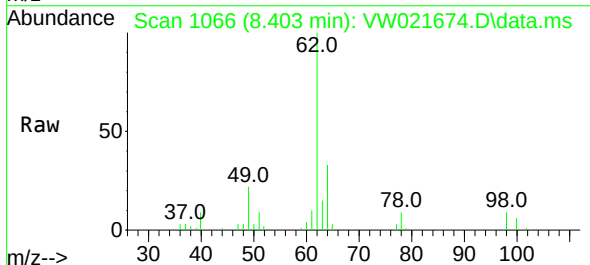


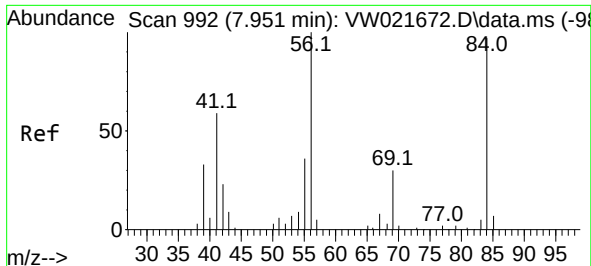
Tgt Ion:128 Resp: 11170
Ion Ratio Lower Upper
128 100
49 133.4 150.3 279.1#
130 125.1 88.3 163.9
51 38.7 55.1 82.7#



#27
1,2-Dichloroethane
Concen: 9.829 ug/L
RT: 8.403 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

Tgt Ion: 62 Resp: 17694
Ion Ratio Lower Upper
62 100
98 8.8 6.5 9.7





#29

Cyclohexane

Concen: 10.054 ug/L

RT: 7.958 min Scan# 992

Delta R.T. 0.006 min

Lab File: VW021674.D

Acq: 28 Dec 2021 14:57

Instrument :

MSVOA_W

ClientSampleId :

GBC26

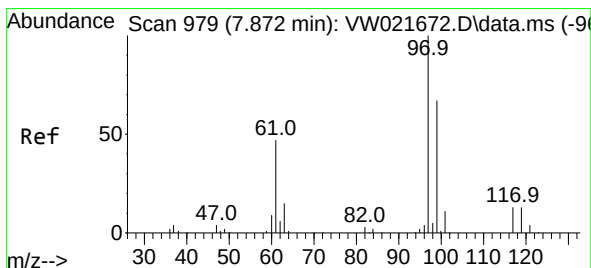
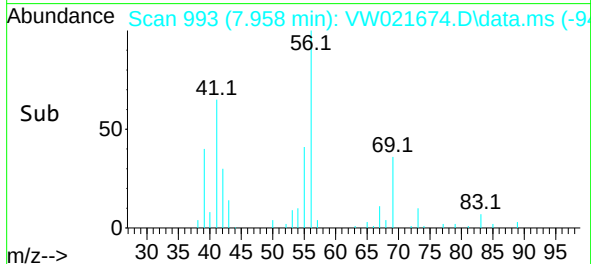
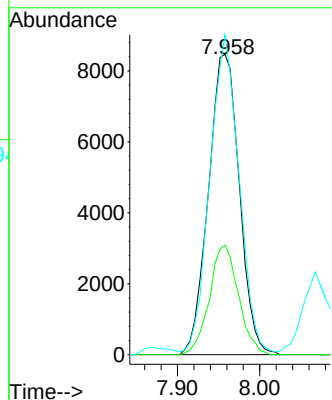
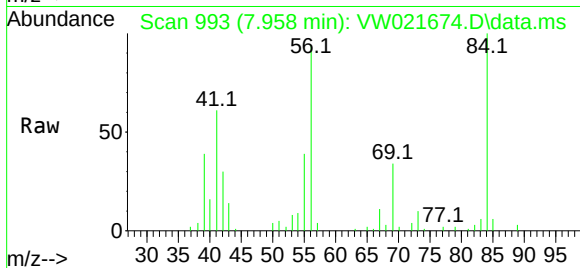
Tgt Ion: 56 Resp: 22091

Ion Ratio Lower Upper

56 100

69 34.3 23.5 35.3

84 100.8 63.4 95.2#



#30

1,1,1-Trichloroethane

Concen: 10.294 ug/L

RT: 7.872 min Scan# 979

Delta R.T. 0.000 min

Lab File: VW021674.D

Acq: 28 Dec 2021 14:57

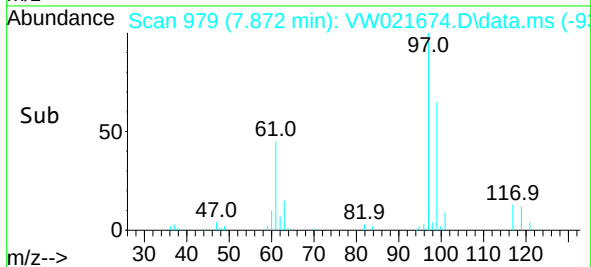
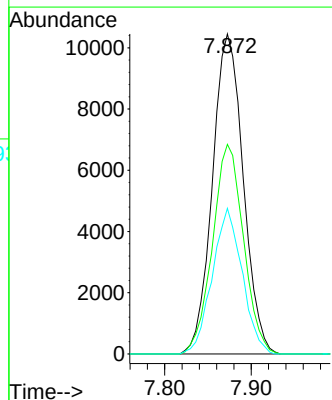
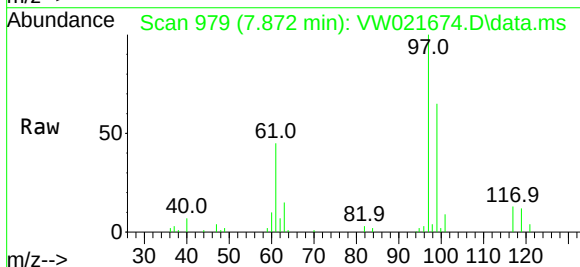
Tgt Ion: 97 Resp: 25808

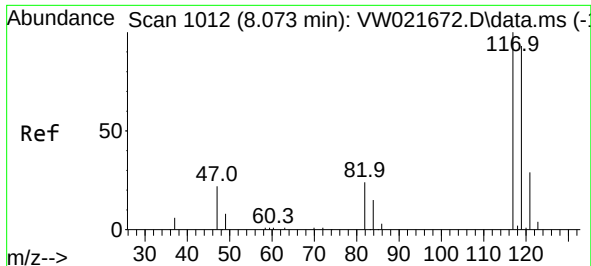
Ion Ratio Lower Upper

97 100

99 65.9 51.6 77.4

61 44.2 40.9 61.3

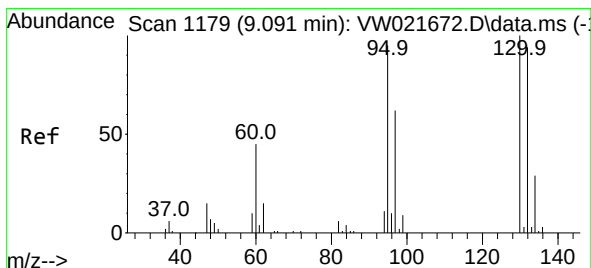
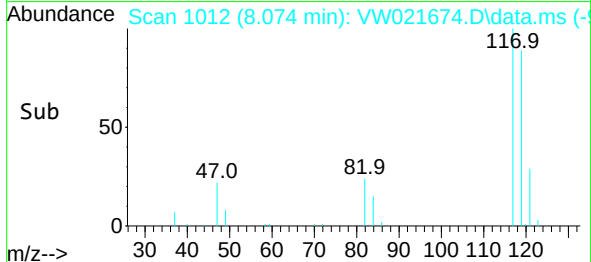
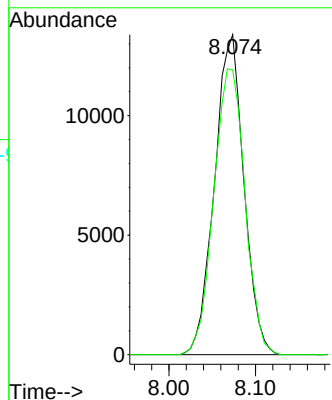
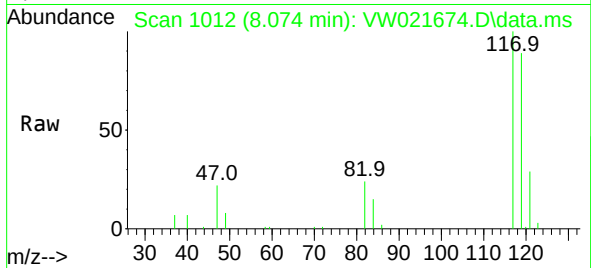




#31
Carbon tetrachloride
Concen: 12.960 ug/L
RT: 8.074 min Scan# 1012
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

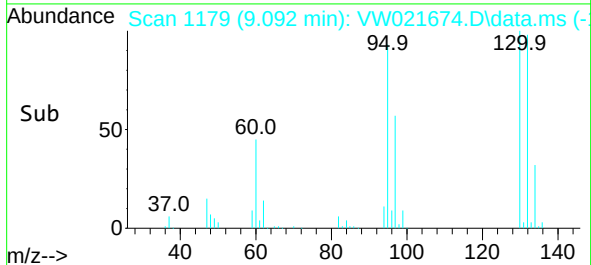
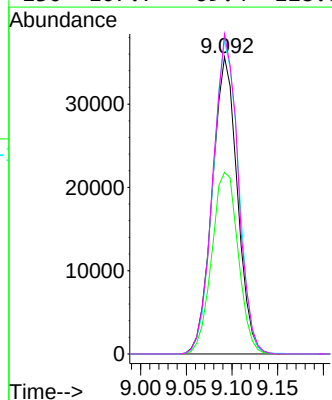
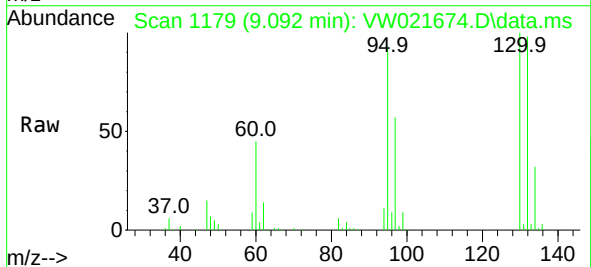
Instrument :
MSVOA_W
ClientSampleId :
GBC26

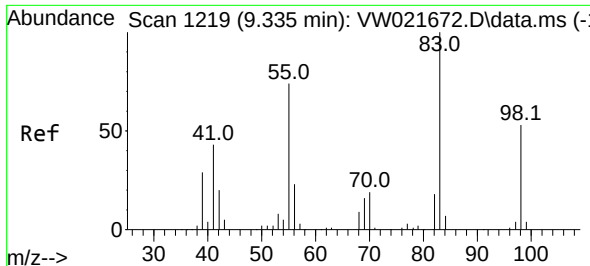
Tgt Ion: 117 Resp: 31594
Ion Ratio Lower Upper
117 100
119 95.0 75.7 113.5



#34
Trichloroethene
Concen: 41.379 ug/L
RT: 9.092 min Scan# 1179
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

Tgt Ion: 95 Resp: 68102
Ion Ratio Lower Upper
95 100
97 61.1 47.0 87.2
132 105.4 65.5 121.6
130 107.7 69.4 128.8

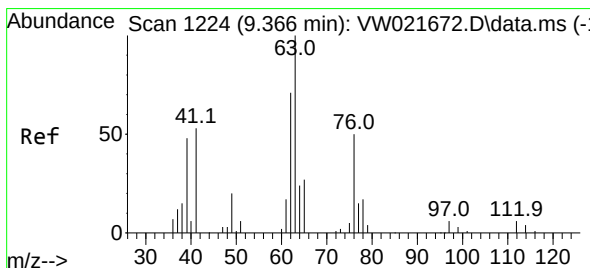
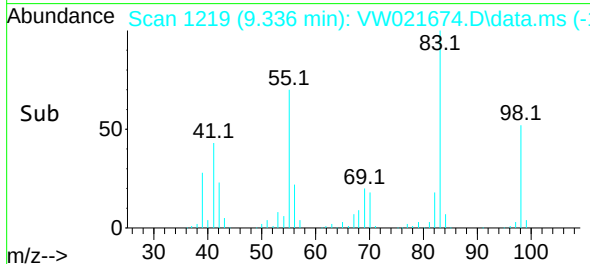
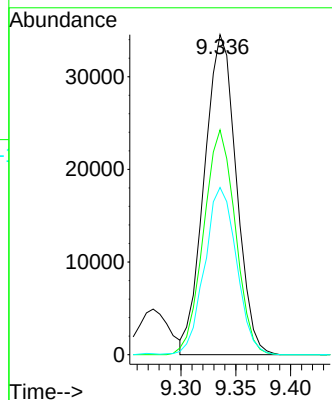
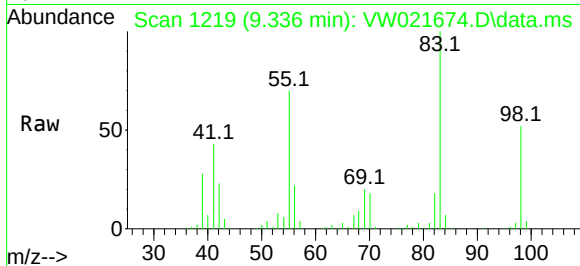




#35
Methylcyclohexane
Concen: 25.827 ug/L
RT: 9.336 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

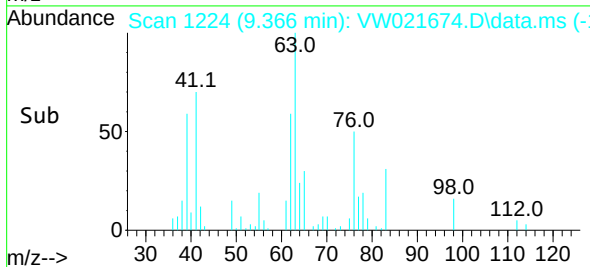
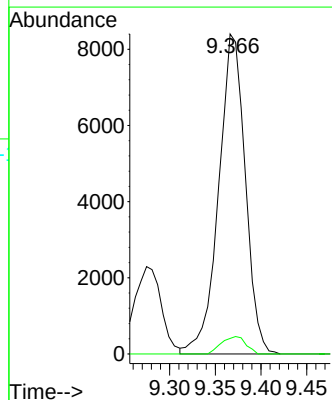
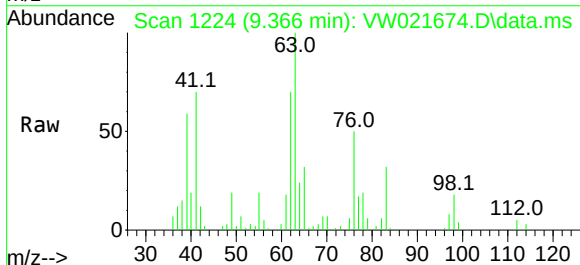
Instrument :
MSVOA_W
ClientSampleId :
GBC26

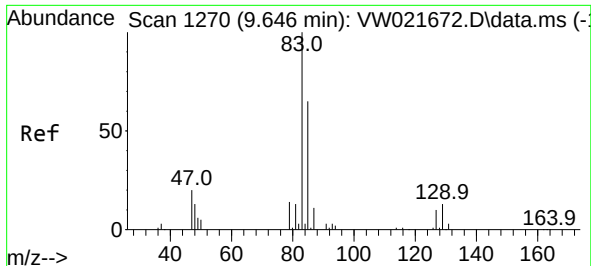
Tgt Ion: 83 Resp: 70132
Ion Ratio Lower Upper
83 100
55 69.6 70.8 106.2#
98 52.0 37.7 56.5



#37
1,2-Dichloropropane
Concen: 13.243 ug/L
RT: 9.366 min Scan# 1224
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

Tgt Ion: 63 Resp: 17015
Ion Ratio Lower Upper
63 100
112 5.0 3.2 4.8#

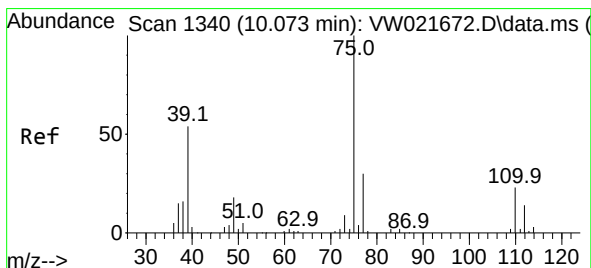
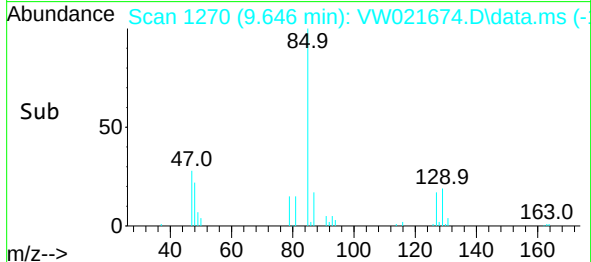
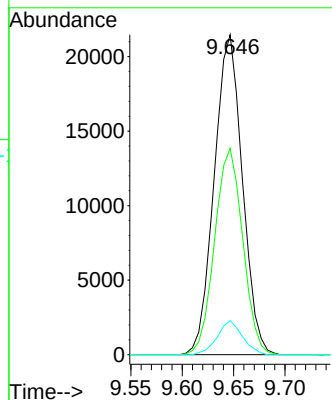
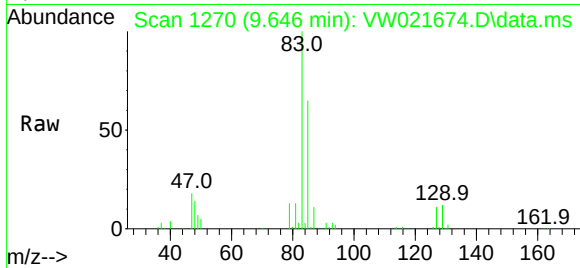




#38
Bromodichloromethane
Concen: 20.839 ug/L
RT: 9.646 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

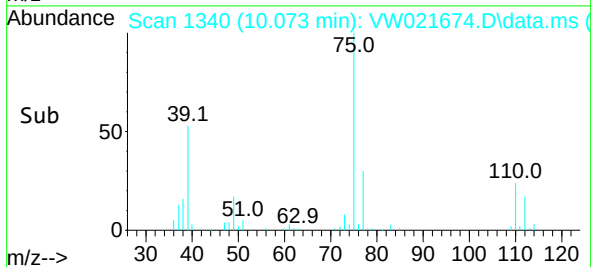
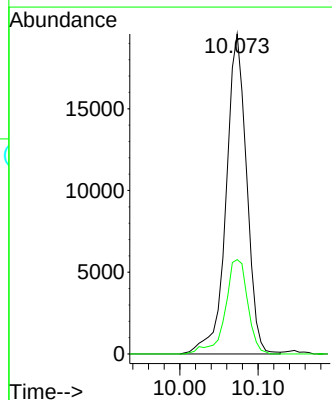
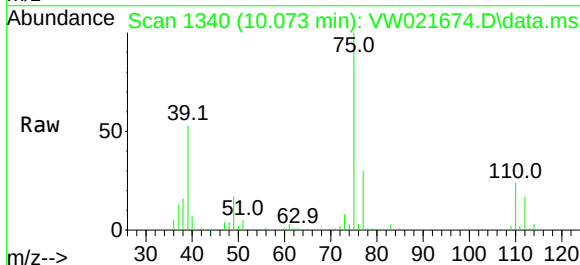
Instrument :
MSVOA_W
ClientSampleId :
GBC26

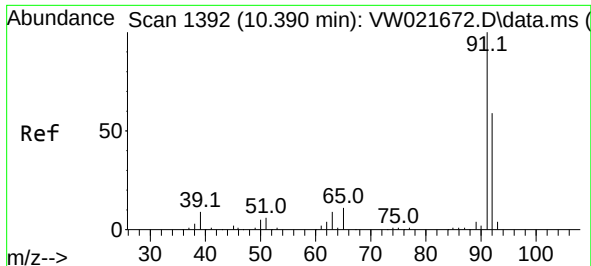
Tgt Ion: 83 Resp: 40868
Ion Ratio Lower Upper
83 100
85 64.5 44.1 81.9
127 10.7 6.1 9.1#



#39
cis-1,3-Dichloropropene
Concen: 16.989 ug/L
RT: 10.073 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

Tgt Ion: 75 Resp: 35664
Ion Ratio Lower Upper
75 100
77 29.5 21.8 40.6





#42

Toluene

Concen: 20.554 ug/L

RT: 10.384 min Scan# 1391

Delta R.T. -0.006 min

Lab File: VW021674.D

Acq: 28 Dec 2021 14:57

Instrument :

MSVOA_W

ClientSampleId :

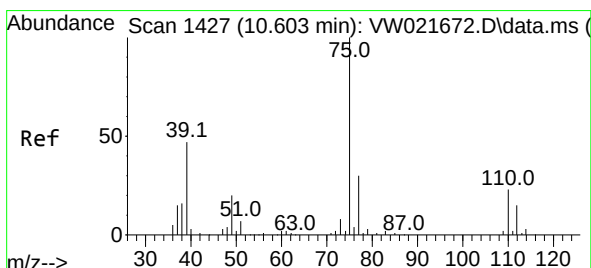
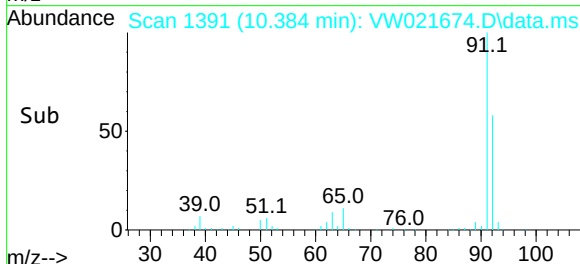
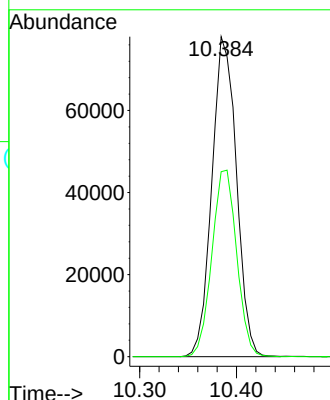
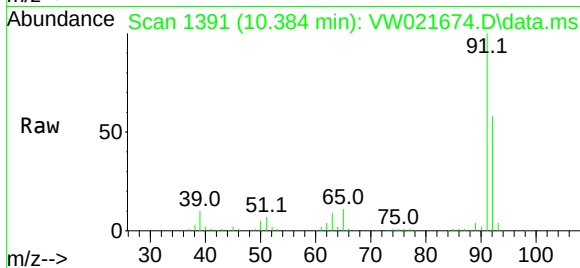
GBC26

Tgt Ion: 91 Resp: 137558

Ion Ratio Lower Upper

91 100

92 57.8 41.7 77.5



#44

trans-1,3-Dichloropropene

Concen: 7.734 ug/L

RT: 10.604 min Scan# 1427

Delta R.T. 0.000 min

Lab File: VW021674.D

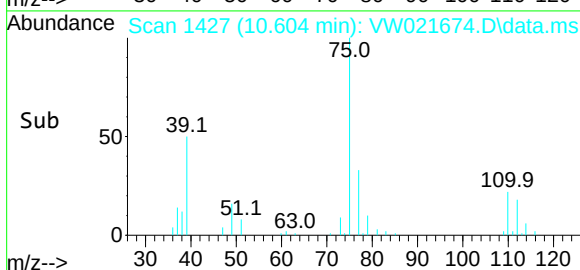
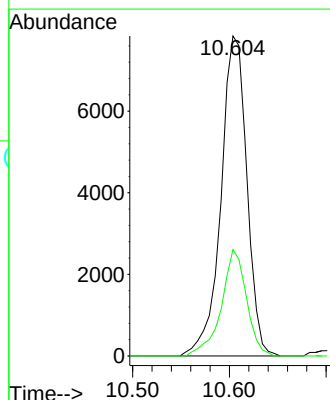
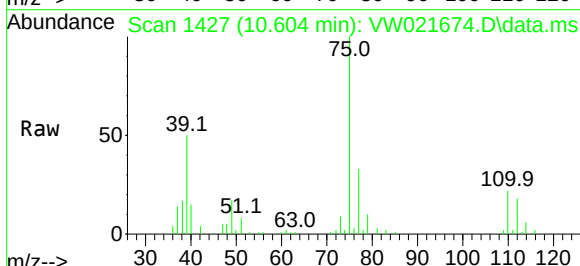
Acq: 28 Dec 2021 14:57

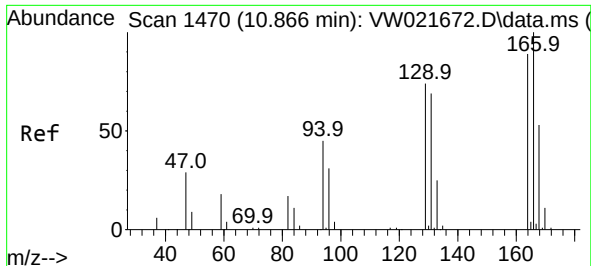
Tgt Ion: 75 Resp: 14588

Ion Ratio Lower Upper

75 100

77 33.3 22.2 41.2





#46

Tetrachloroethene

Concen: 42.654 ug/L

RT: 10.860 min Scan# 1470

Delta R.T. -0.006 min

Lab File: VW021674.D

Acq: 28 Dec 2021 14:57

Instrument :

MSVOA_W

ClientSampleId :

GBC26

Tgt Ion:164 Resp: 65739

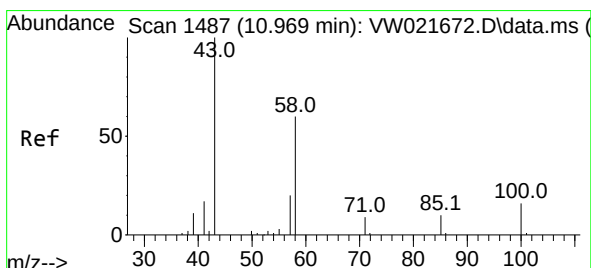
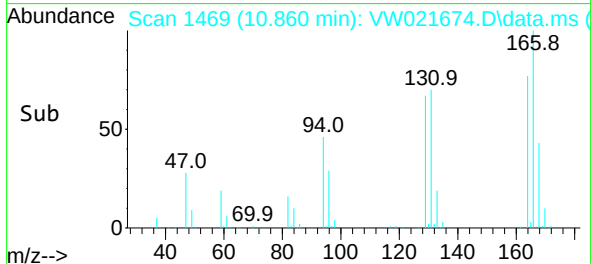
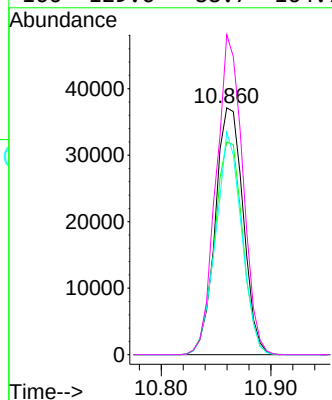
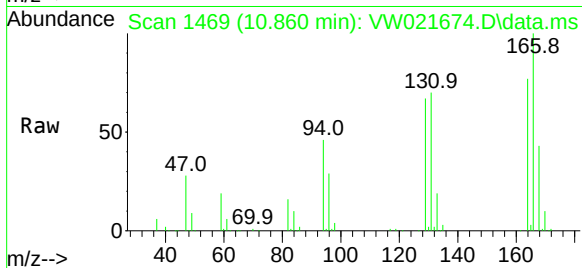
Ion Ratio Lower Upper

164 100

129 86.2 65.5 121.7

131 90.1 59.7 110.9

166 129.6 88.7 164.7



#48

2-Hexanone

Concen: 50.844 ug/L

RT: 10.969 min Scan# 1487

Delta R.T. 0.000 min

Lab File: VW021674.D

Acq: 28 Dec 2021 14:57

Tgt Ion: 43 Resp: 24439

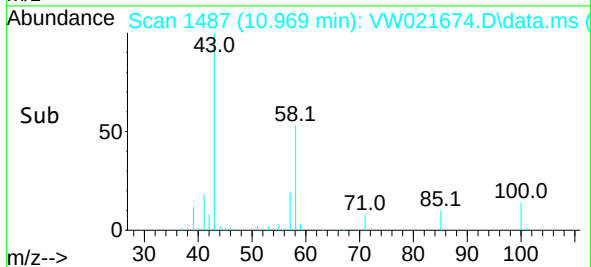
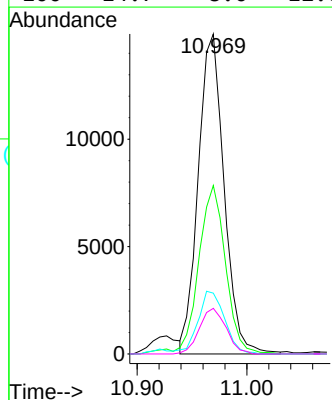
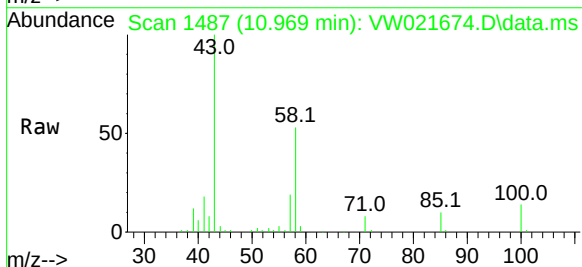
Ion Ratio Lower Upper

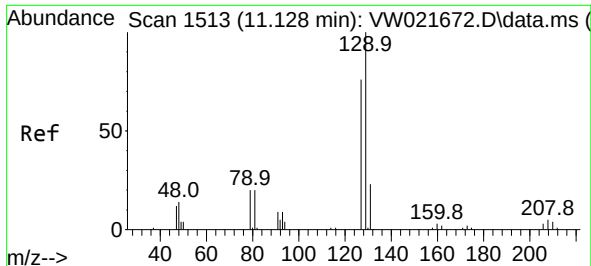
43 100

58 54.1 40.2 60.2

57 20.2 14.3 21.5

100 14.7 8.0 12.0#





#49

Dibromochloromethane

Concen: 20.234 ug/L

RT: 11.128 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW021674.D

Acq: 28 Dec 2021 14:57

Instrument :

MSVOA_W

ClientSampleId :

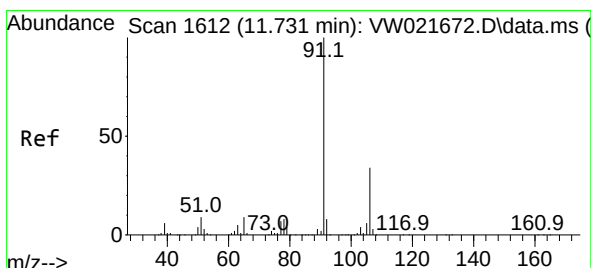
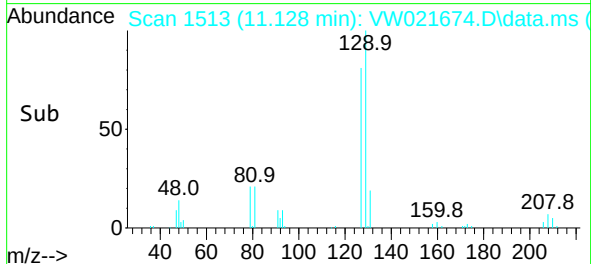
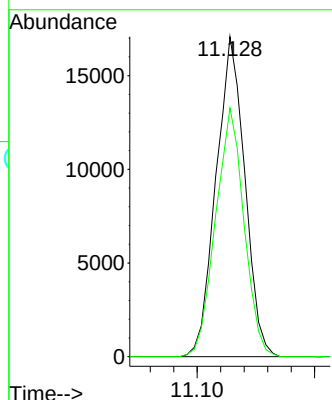
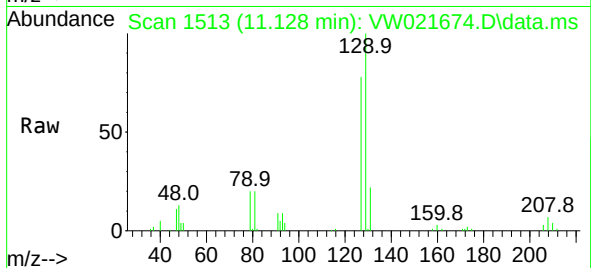
GBC26

Tgt Ion:129 Resp: 29013

Ion Ratio Lower Upper

129 100

127 77.7 55.7 103.5



#52

Ethylbenzene

Concen: 15.409 ug/L

RT: 11.731 min Scan# 1612

Delta R.T. 0.000 min

Lab File: VW021674.D

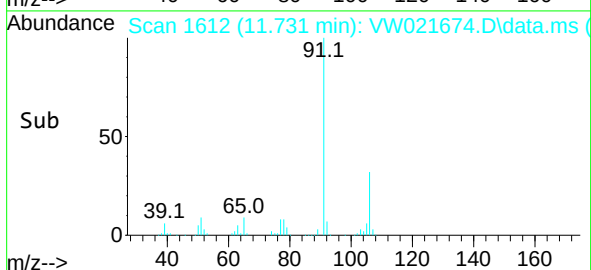
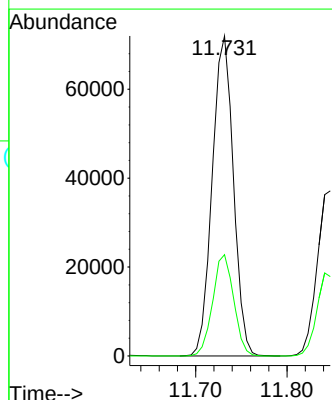
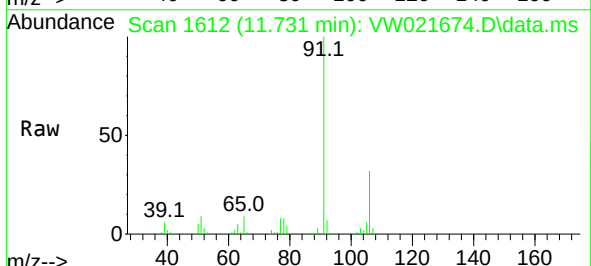
Acq: 28 Dec 2021 14:57

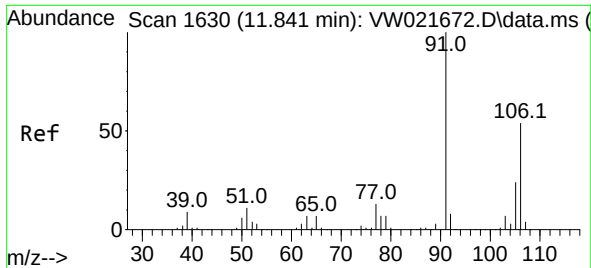
Tgt Ion: 91 Resp: 115754

Ion Ratio Lower Upper

91 100

106 31.7 21.5 39.9

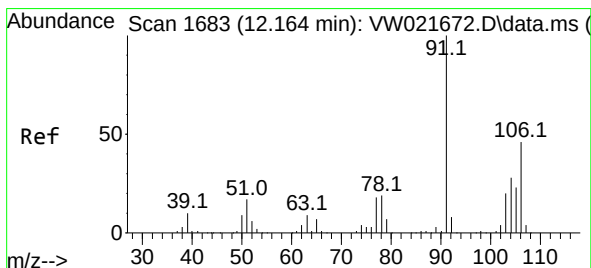
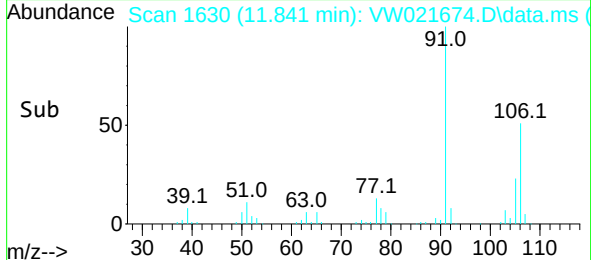
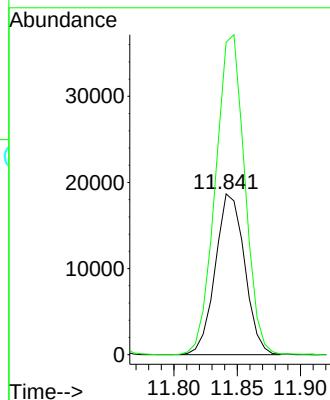
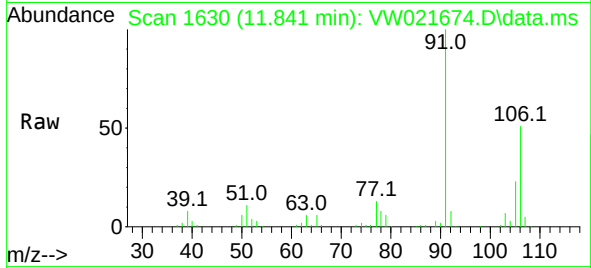




#53
m,p-Xylene
Concen: 10.001 ug/L
RT: 11.841 min Scan# 1630
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

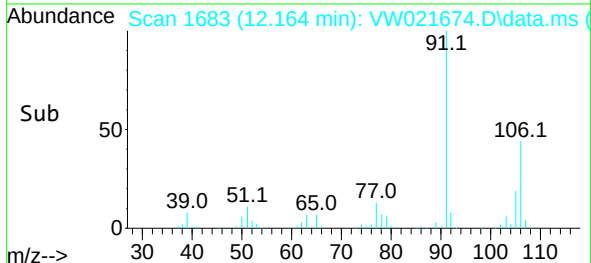
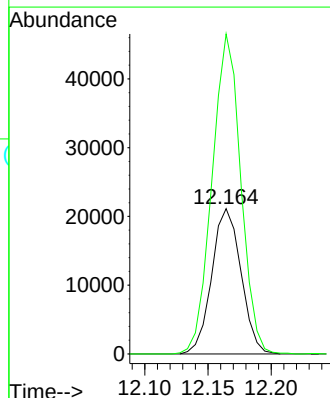
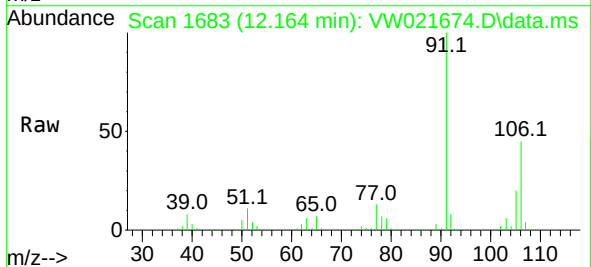
Instrument :
MSVOA_W
ClientSampleId :
GBC26

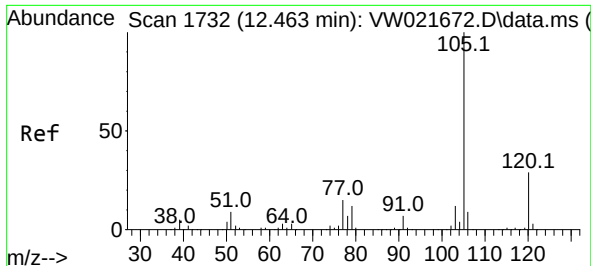
Tgt Ion:106 Resp: 30106
Ion Ratio Lower Upper
106 100
91 194.3 149.9 278.3



#54
o-Xylene
Concen: 11.918 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

Tgt Ion:106 Resp: 34003
Ion Ratio Lower Upper
106 100
91 220.3 153.6 285.3

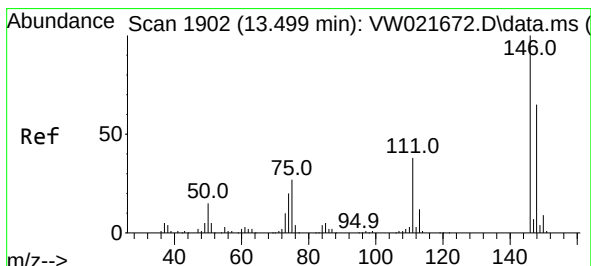
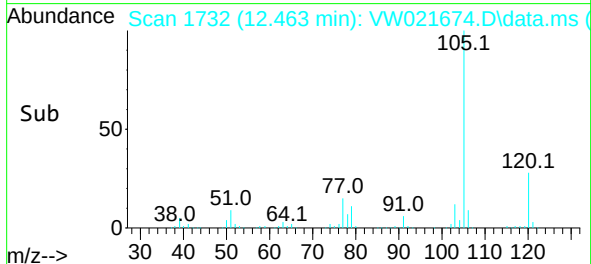
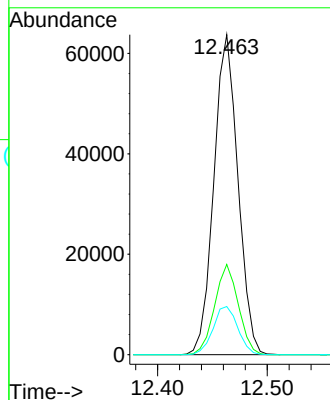
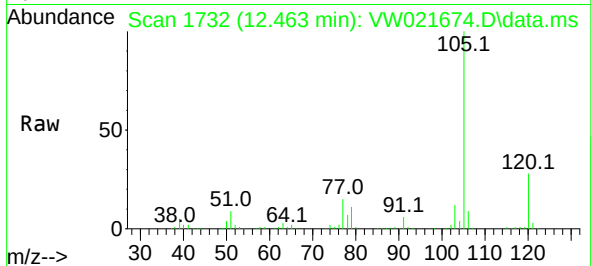




#60
Isopropylbenzene
Concen: 12.571 ug/L
RT: 12.463 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

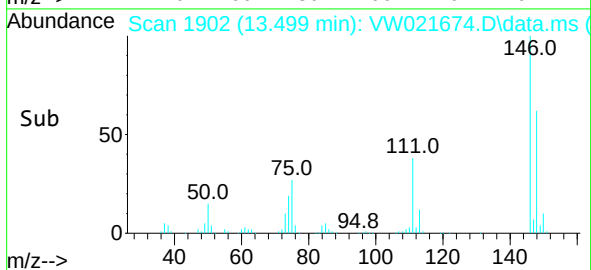
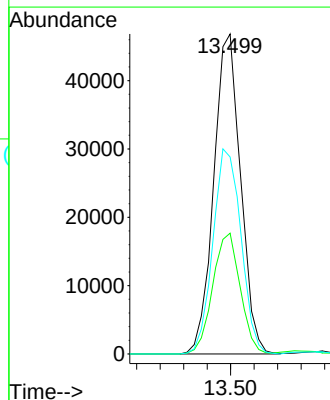
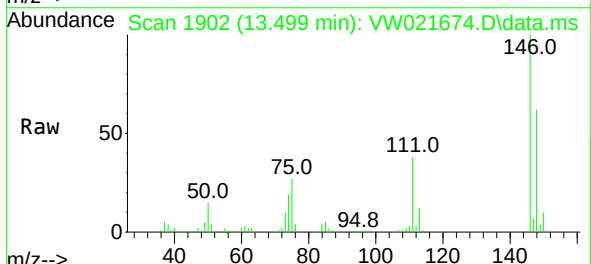
Instrument :
MSVOA_W
ClientSampleId :
GBC26

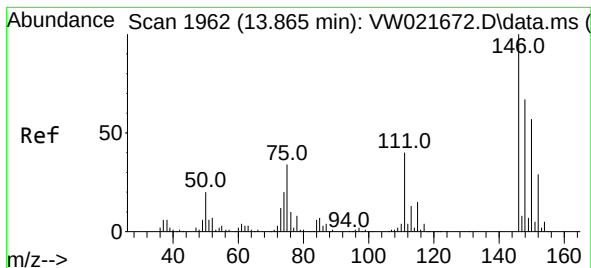
Tgt Ion:105 Resp: 97276
Ion Ratio Lower Upper
105 100
120 27.8 20.1 30.1
77 15.5 13.8 20.8



#64
1,3-Dichlorobenzene
Concen: 20.340 ug/L
RT: 13.499 min Scan# 1902
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

Tgt Ion:146 Resp: 74309
Ion Ratio Lower Upper
146 100
111 37.7 29.8 55.3
148 61.6 46.2 85.8

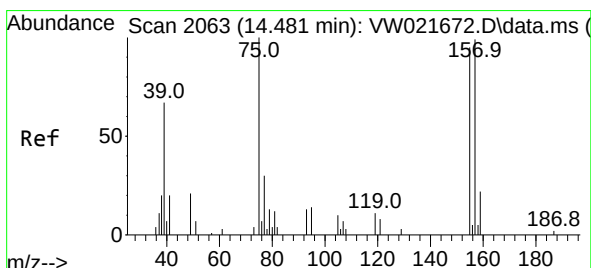
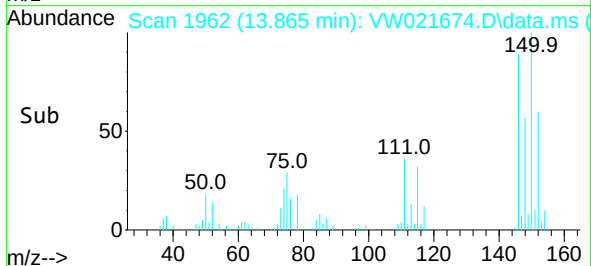
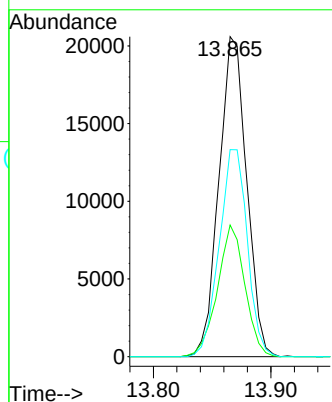
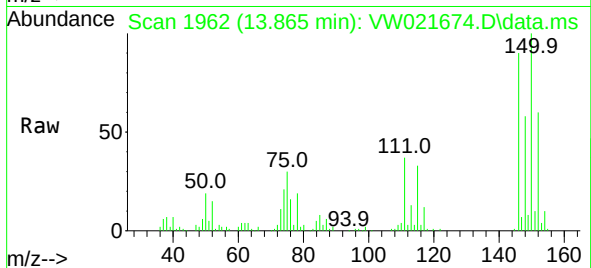




#67
1,2-Dichlorobenzene
Concen: 10.600 ug/L
RT: 13.865 min Scan# 1962
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

Instrument :
MSVOA_W
ClientSampleId :
GBC26

Tgt Ion:146 Resp: 33810
Ion Ratio Lower Upper
146 100
111 41.1 33.1 49.7
148 64.7 47.4 71.2



#68
1,2-Dibromo-3-chloropropane
Concen: 20.632 ug/L
RT: 14.481 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VW021674.D
Acq: 28 Dec 2021 14:57

Tgt Ion: 75 Resp: 3859
Ion Ratio Lower Upper
75 100
155 97.0 54.2 81.2#
157 129.0 69.4 104.2#

