

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW110921\
 Data File : VW023298.D
 Acq On : 09 Nov 2021 12:47
 Operator : SY/MD
 Sample : M4534-07
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 GB864

Quant Time: Nov 10 09:01:16 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Nov 10 00:38:37 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	153601	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	152244	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	77046	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	28267	2.938	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	58.800%
7) Chloroethane-d5	1.564	69	26905	3.431	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	68.600%
11) 1,1-Dichloroethene-d2	2.108	63	58128	3.227	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.600%
20) 2-Butanone-d5	3.908	46	67147	40.504	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	81.000%
24) Chloroform-d	4.349	84	73457	3.582	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	71.600%
26) 1,2-Dichloroethane-d4	5.037	65	34784	3.772	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.400%
32) Benzene-d6	5.050	84	141668	3.627	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	72.600%
36) 1,2-Dichloropropane-d6	6.072	67	43658	3.797	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	76.000%
41) Toluene-d8	7.317	98	113715	3.107	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	62.200%#
43) trans-1,3-Dichloroprop...	7.628	79	15253	3.498	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	70.000%
46) 2-Hexanone-d5	8.091	63	66765	41.618	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	83.240%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	32425	3.921	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	78.400%
66) 1,2-Dichlorobenzene-d4	11.625	152	49671	3.872	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	77.400%#
Target Compounds						
					Qvalue	
3) Chloromethane	1.236	50	42128	3.308	ug/L	97
6) Bromomethane	1.519	94	21394	2.632	ug/L	97
9) Trichlorofluoromethane	1.751	101	131095	6.860	ug/L	99
12) 1,1-Dichloroethene	2.114	96	30820	3.365	ug/L	95
13) Acetone	2.191	43	108972	107.578	ug/L	96
14) Carbon disulfide	2.291	76	159966	4.628	ug/L	100
16) Methylene chloride	2.507	84	33672	2.519	ug/L	96
17) Methyl tert-butyl Ether	2.770	73	170895	8.476	ug/L	95
19) 1,1-Dichloroethane	3.188	63	167587	8.815	ug/L	99
21) 2-Butanone	3.982	43	224894	137.323	ug/L	100
27) 1,2-Dichloroethane	5.133	62	75469	7.002	ug/L	99
29) 1,1,1-Trichloroethane	4.609	97	148823	8.049	ug/L	99
30) Cyclohexane	4.677	56	182940	11.041	ug/L	99
34) Trichloroethene	5.915	95	57086	5.045	ug/L	96
35) Methylcyclohexane	6.130	83	108639	6.083	ug/L	97
37) 1,2-Dichloropropane	6.175	63	21965	2.211	ug/L	99
42) Toluene	7.387	91	380969	8.370	ug/L	99
47) Tetrachloroethene	7.976	164	80133	8.171	ug/L	98
48) 2-Hexanone	8.143	43	223065	69.094	ug/L	99

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

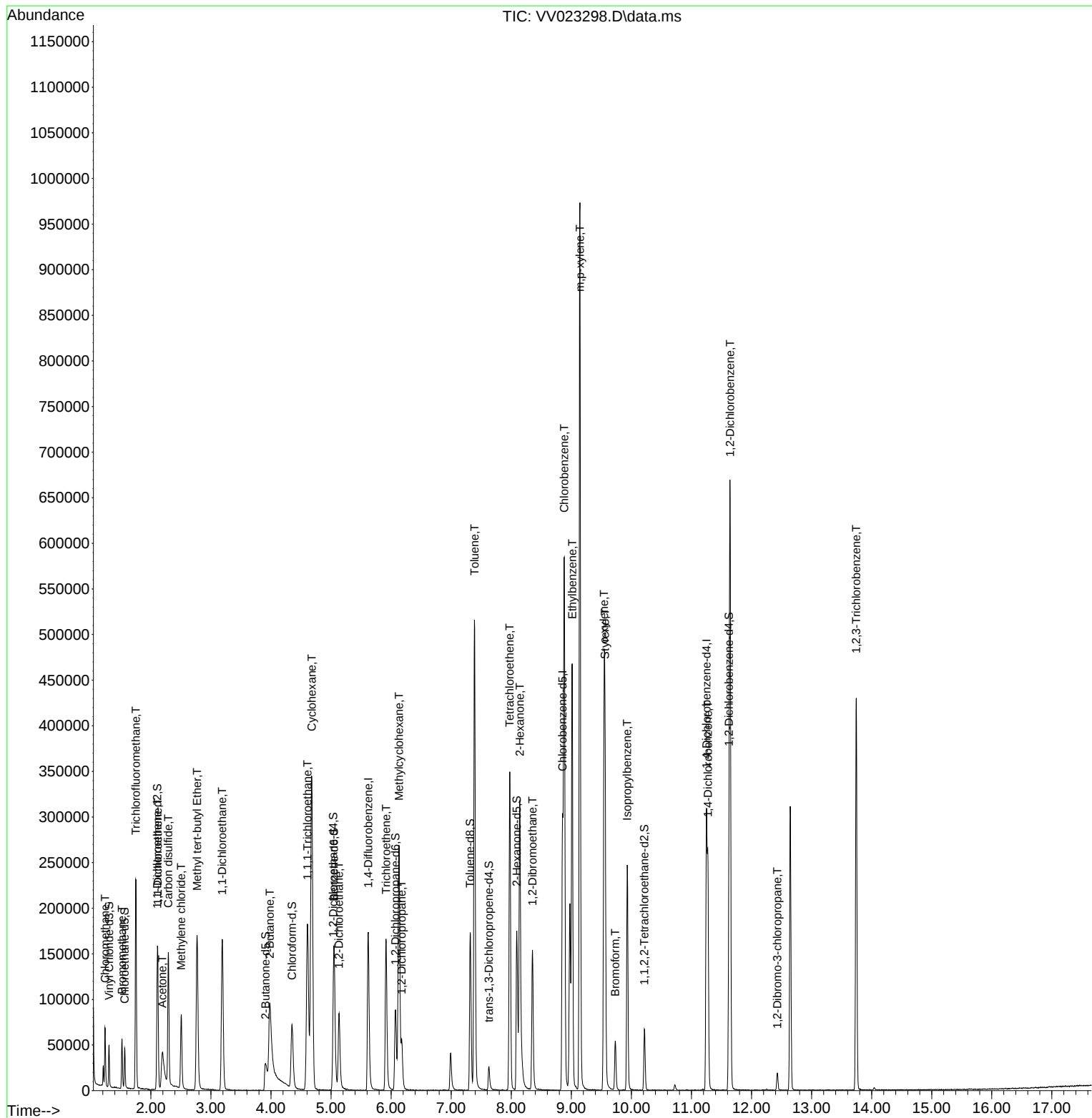
50) 1,2-Dibromoethane	8.352	107	102951	15.564	ug/L	99
51) Chlorobenzene	8.882	112	312665	10.335	ug/L	99
52) Ethylbenzene	9.014	91	314933	6.561	ug/L	99
53) m,p-xylene	9.143	106	256036	13.591	ug/L	97
54) o-xylene	9.545	106	94593	5.352	ug/L	97
55) Styrene	9.561	104	166817	5.510	ug/L	97
59) Bromoform	9.731	173	24857	5.401	ug/L	99
60) Isopropylbenzene	9.931	105	156467	3.539	ug/L	99
65) 1,4-Dichlorobenzene	11.275	146	96450	4.181	ug/L	99
67) 1,2-Dichlorobenzene	11.644	146	253219	12.527	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.429	75	4778	4.382	ug/L	90
72) 1,2,3-Trichlorobenzene	13.744	180	129143	10.421	ug/L	99

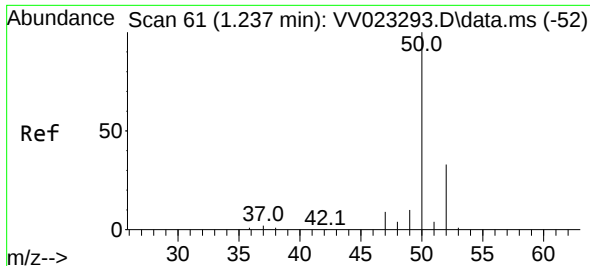
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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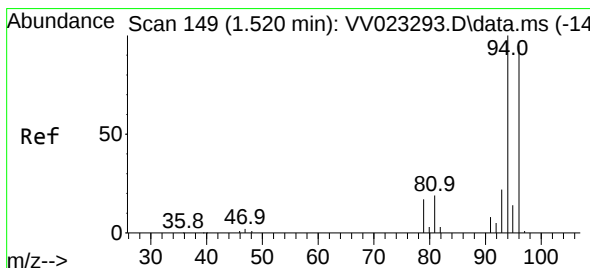
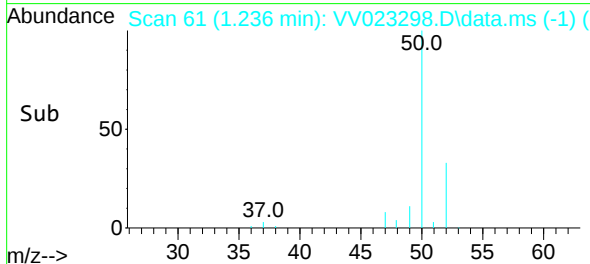
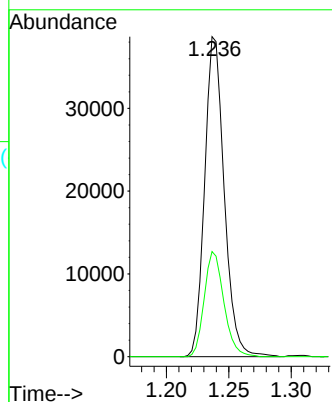
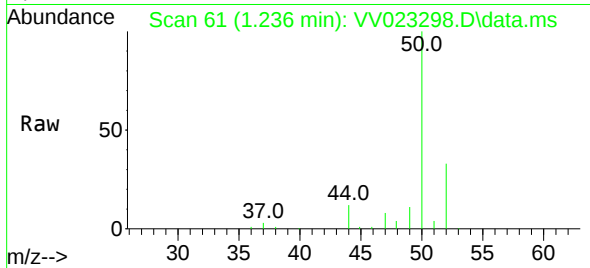




#3
Chloromethane
Concen: 3.308 ug/L
RT: 1.236 min Scan# 61
Delta R.T. -0.003 min
Lab File: VV023298.D
Acq: 09 Nov 2021 12:47

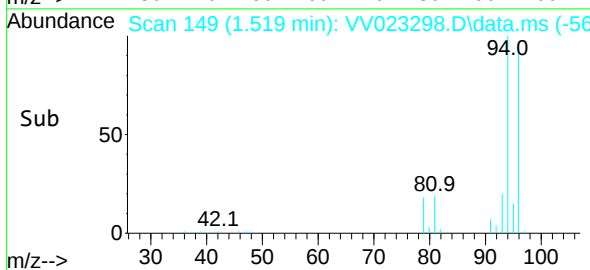
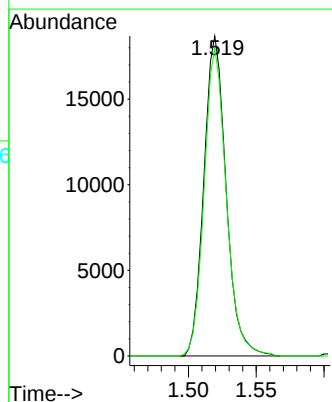
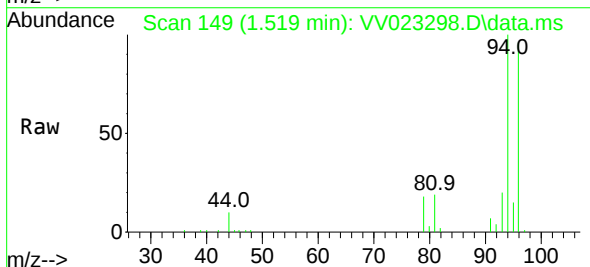
Instrument :
MSVOA_V
ClientSampleId :
GB864

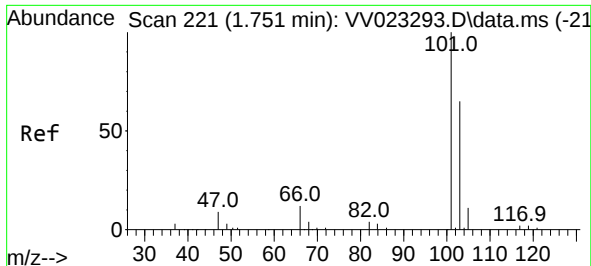
Tgt Ion: 50 Resp: 42128
Ion Ratio Lower Upper
50 100
52 32.8 24.3 45.1



#6
Bromomethane
Concen: 2.632 ug/L
RT: 1.519 min Scan# 149
Delta R.T. -0.000 min
Lab File: VV023298.D
Acq: 09 Nov 2021 12:47

Tgt Ion: 94 Resp: 21394
Ion Ratio Lower Upper
94 100
96 96.1 65.0 120.8

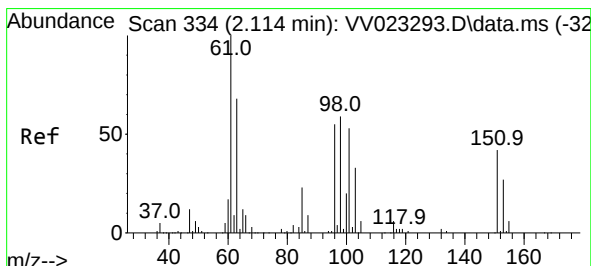
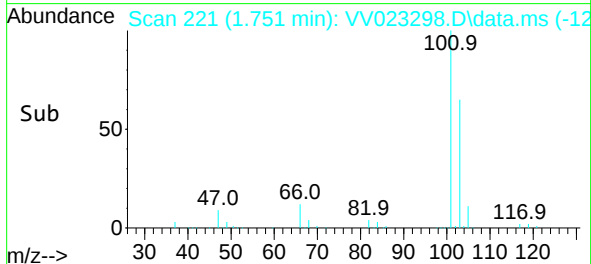
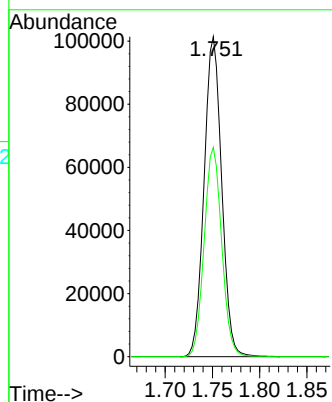
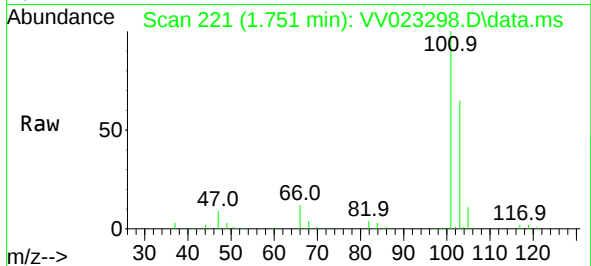




#9
 Trichlorofluoromethane
 Concen: 6.860 ug/L
 RT: 1.751 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VV023298.D
 Acq: 09 Nov 2021 12:47

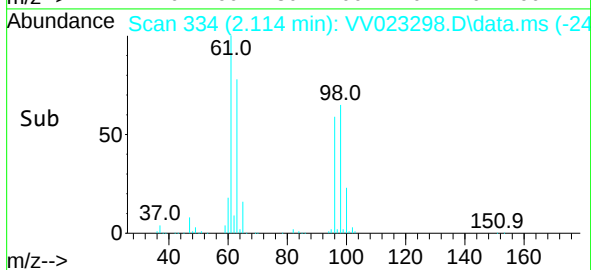
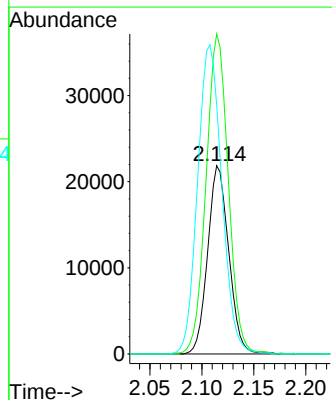
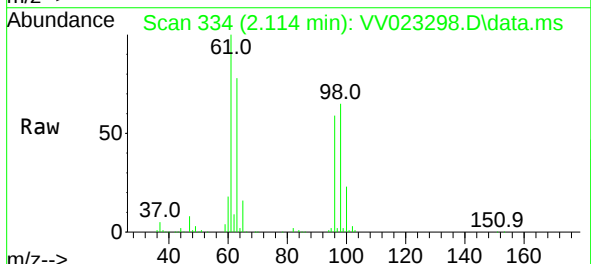
Instrument :
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 ClientSampleId :
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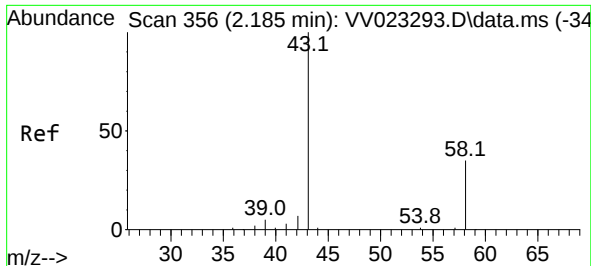
Tgt Ion:101 Resp: 131095
 Ion Ratio Lower Upper
 101 100
 103 65.3 52.6 79.0



#12
 1,1-Dichloroethene
 Concen: 3.365 ug/L
 RT: 2.114 min Scan# 334
 Delta R.T. -0.003 min
 Lab File: VV023298.D
 Acq: 09 Nov 2021 12:47

Tgt Ion: 96 Resp: 30820
 Ion Ratio Lower Upper
 96 100
 61 169.9 121.5 225.7
 63 132.5 99.6 185.0





#13

Acetone

Concen: 107.578 ug/L

RT: 2.191 min Scan# 356

Delta R.T. -0.000 min

Lab File: VV023298.D

Acq: 09 Nov 2021 12:47

Instrument :

MSVOA_V

ClientSampleId :

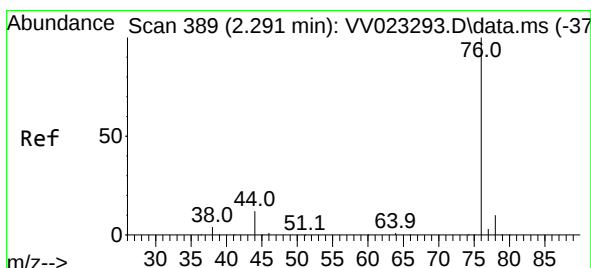
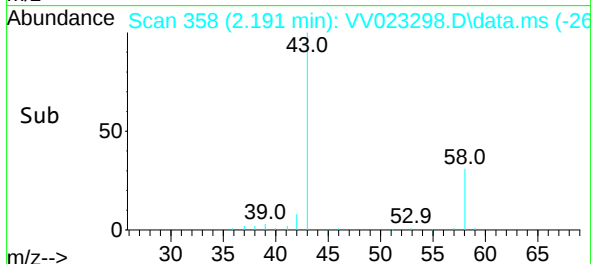
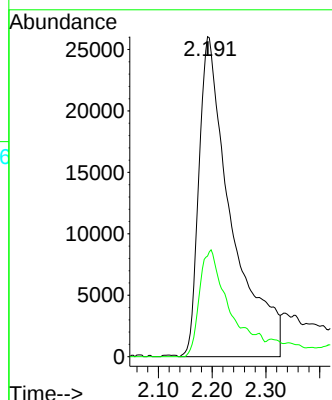
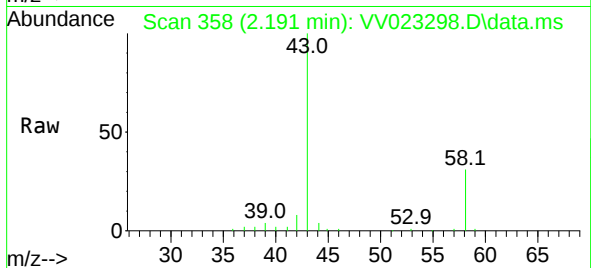
GB864

Tgt Ion: 43 Resp: 108972

Ion Ratio Lower Upper

43 100

58 29.6 0.0 55.4



#14

Carbon disulfide

Concen: 4.628 ug/L

RT: 2.291 min Scan# 389

Delta R.T. -0.003 min

Lab File: VV023298.D

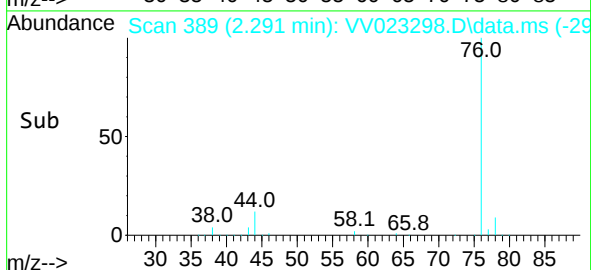
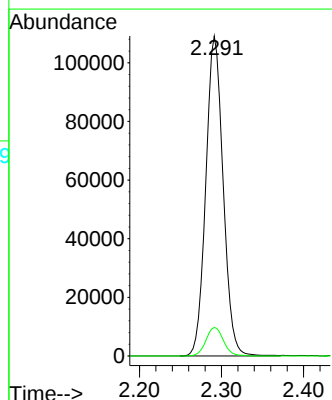
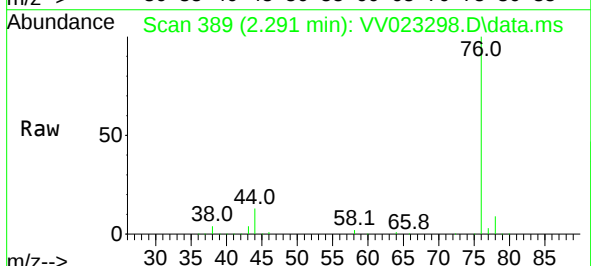
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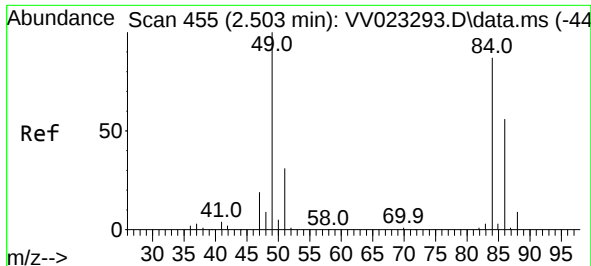
Tgt Ion: 76 Resp: 159966

Ion Ratio Lower Upper

76 100

78 8.9 7.2 10.8

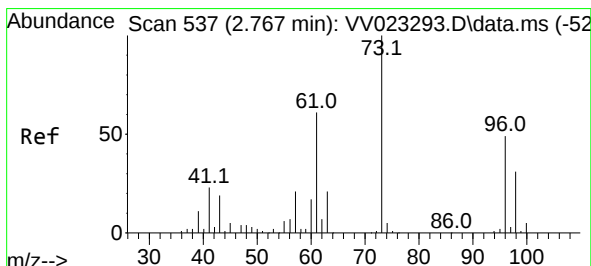
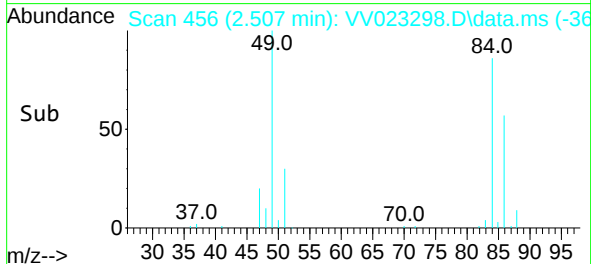
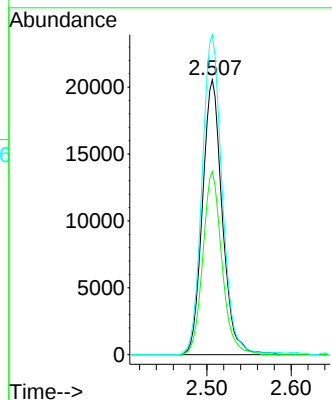
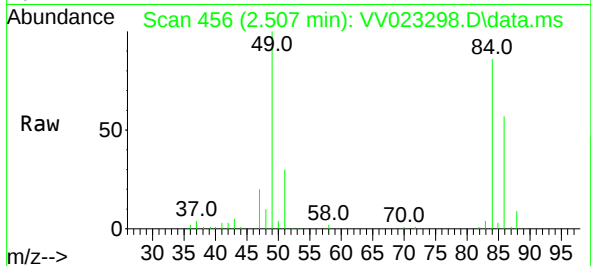




#16
Methylene chloride
Concen: 2.519 ug/L
RT: 2.507 min Scan# 41
Delta R.T. -0.000 min
Lab File: VV023298.D
Acq: 09 Nov 2021 12:47

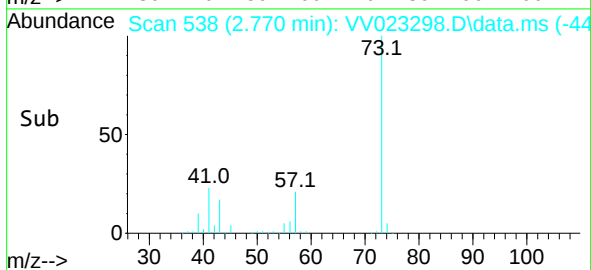
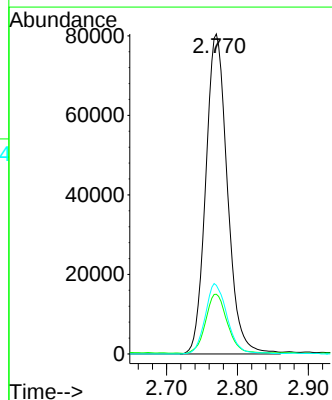
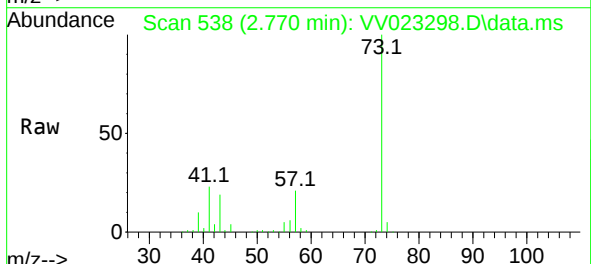
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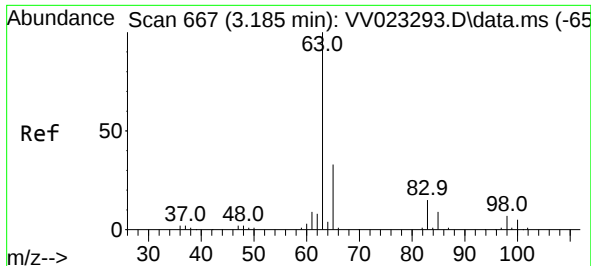
Tgt Ion: 84 Resp: 33672
Ion Ratio Lower Upper
84 100
86 66.6 42.3 78.5
49 116.4 79.7 148.1



#17
Methyl tert-butyl Ether
Concen: 8.476 ug/L
RT: 2.770 min Scan# 538
Delta R.T. 0.003 min
Lab File: VV023298.D
Acq: 09 Nov 2021 12:47

Tgt Ion: 73 Resp: 170895
Ion Ratio Lower Upper
73 100
43 18.7 17.4 26.0
57 22.3 16.5 24.7





#19

1,1-Dichloroethane

Concen: 8.815 ug/L

RT: 3.188 min Scan# 6

Delta R.T. -0.000 min

Lab File: VV023298.D

Acq: 09 Nov 2021 12:47

Instrument :

MSVOA_V

ClientSampleId :

GB864

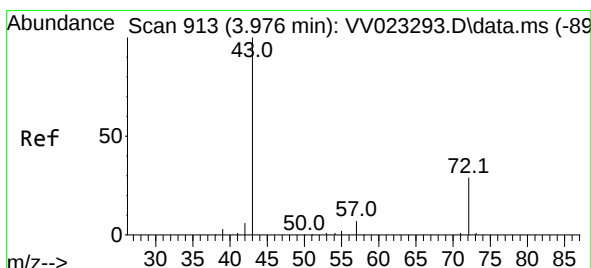
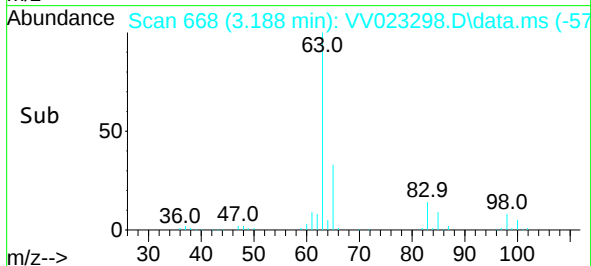
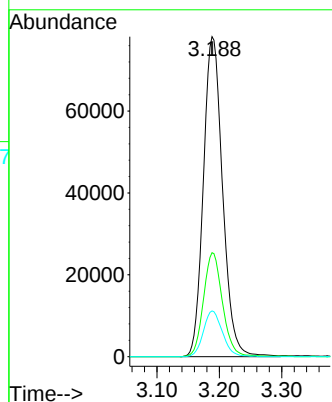
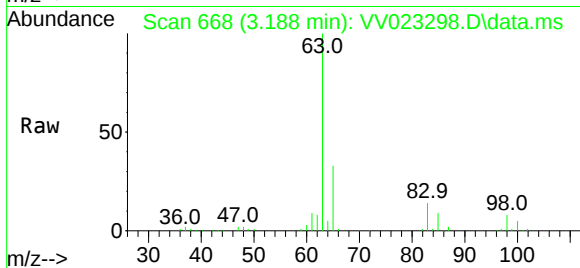
Tgt Ion: 63 Resp: 167587

Ion Ratio Lower Upper

63 100

65 32.5 22.6 42.0

83 14.3 11.1 20.7



#21

2-Butanone

Concen: 137.323 ug/L

RT: 3.982 min Scan# 915

Delta R.T. -0.000 min

Lab File: VV023298.D

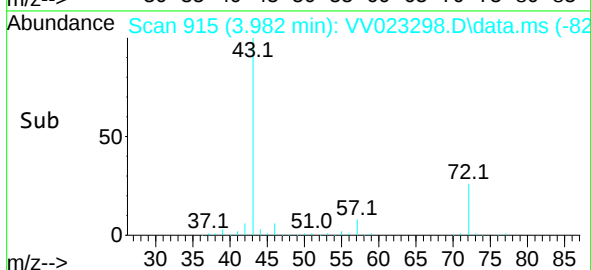
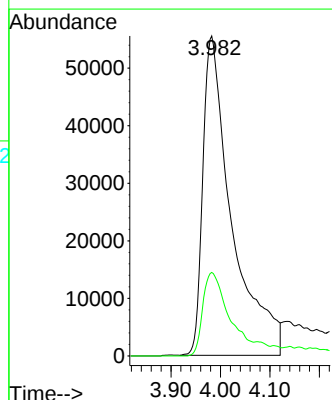
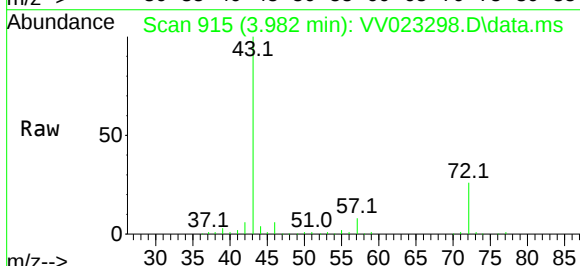
Acq: 09 Nov 2021 12:47

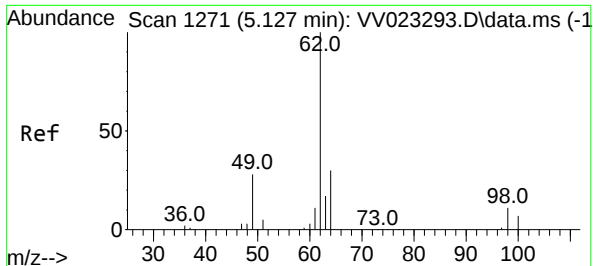
Tgt Ion: 43 Resp: 224894

Ion Ratio Lower Upper

43 100

72 23.8 11.9 35.9





#27

1,2-Dichloroethane

Concen: 7.002 ug/L

RT: 5.133 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV023298.D

Acq: 09 Nov 2021 12:47

Instrument :

MSVOA_V

ClientSampleId :

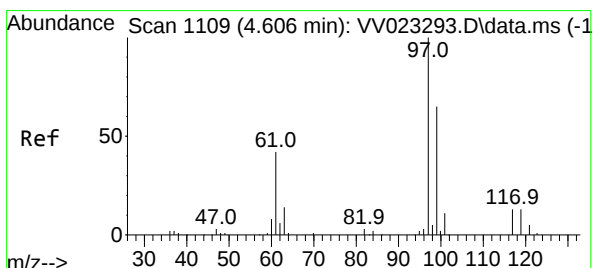
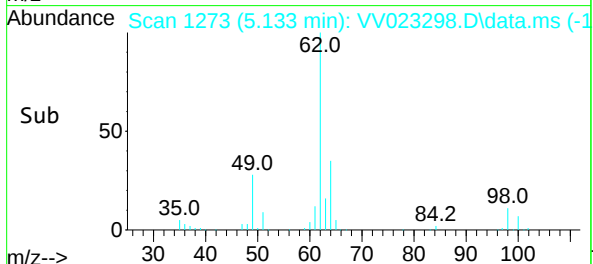
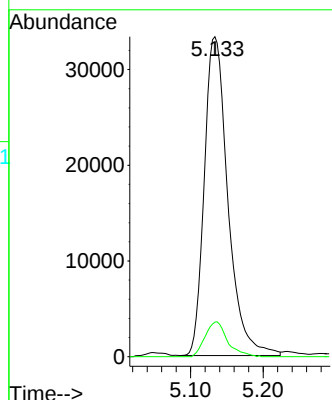
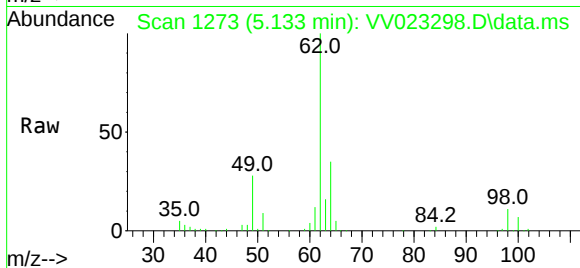
GB864

Tgt Ion: 62 Resp: 75469

Ion Ratio Lower Upper

62 100

98 10.8 8.2 12.4



#29

1,1,1-Trichloroethane

Concen: 8.049 ug/L

RT: 4.609 min Scan# 1110

Delta R.T. 0.003 min

Lab File: VV023298.D

Acq: 09 Nov 2021 12:47

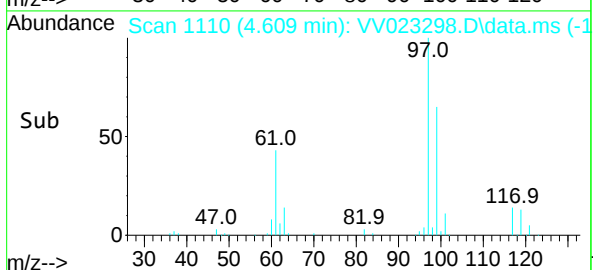
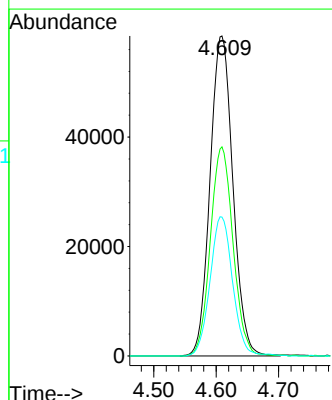
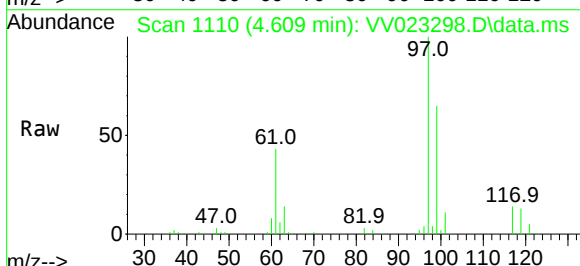
Tgt Ion: 97 Resp: 148823

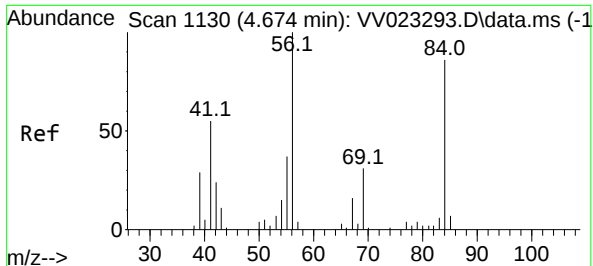
Ion Ratio Lower Upper

97 100

99 65.0 51.0 76.4

61 42.9 34.1 51.1





#30

Cyclohexane

Concen: 11.041 ug/L

RT: 4.677 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VV023298.D

Acq: 09 Nov 2021 12:47

Instrument :

MSVOA_V

ClientSampleId :

GB864

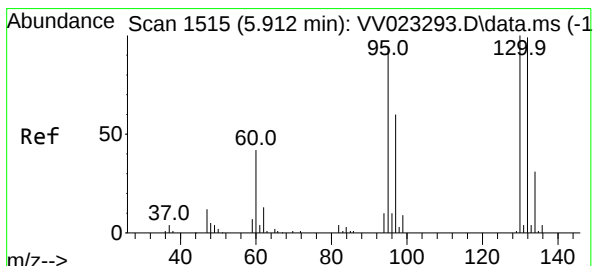
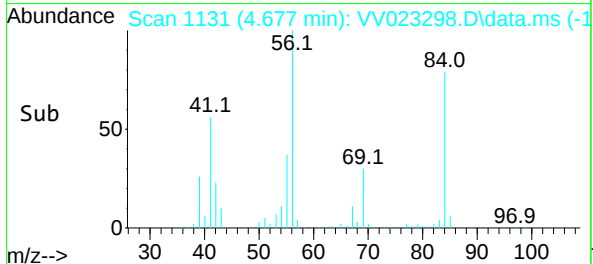
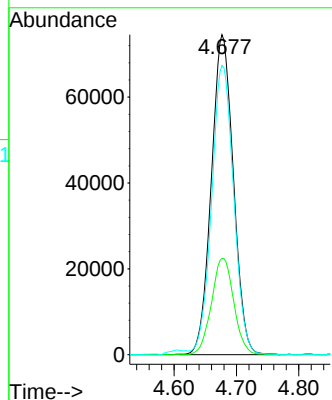
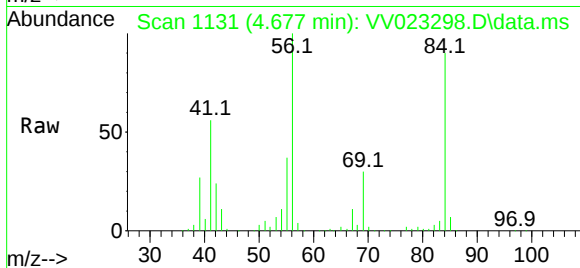
Tgt Ion: 56 Resp: 182940

Ion Ratio Lower Upper

56 100

69 30.5 23.5 35.3

84 90.5 71.6 107.4



#34

Trichloroethene

Concen: 5.045 ug/L

RT: 5.915 min Scan# 1516

Delta R.T. 0.003 min

Lab File: VV023298.D

Acq: 09 Nov 2021 12:47

Tgt Ion: 95 Resp: 57086

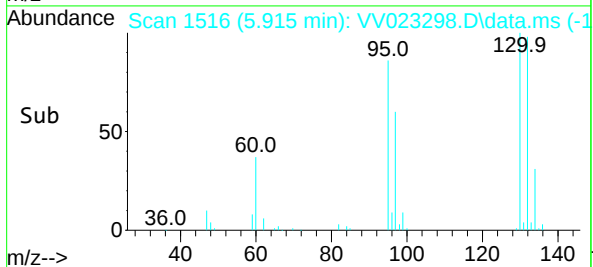
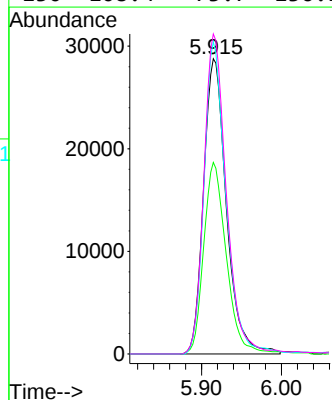
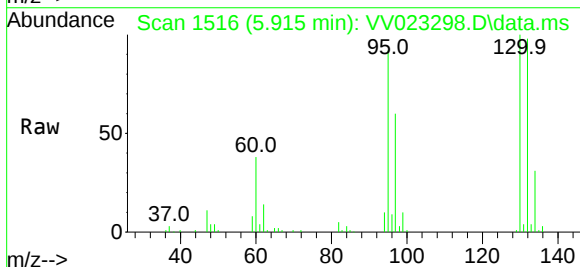
Ion Ratio Lower Upper

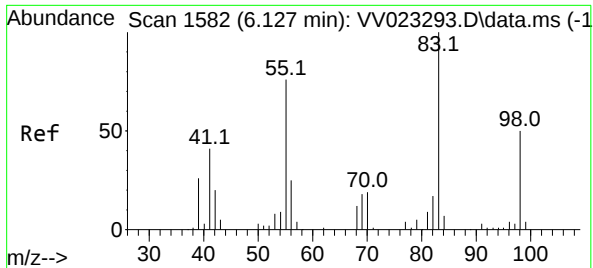
95 100

97 64.9 45.0 83.6

132 105.8 69.7 129.4

130 108.4 73.7 136.9

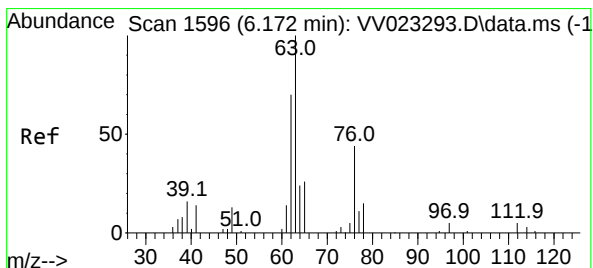
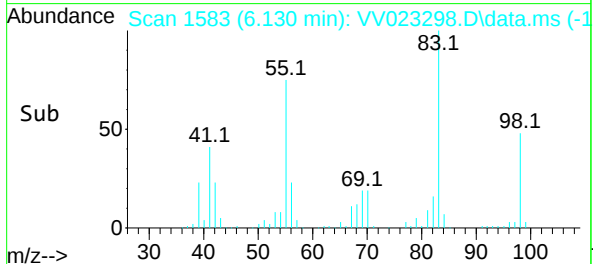
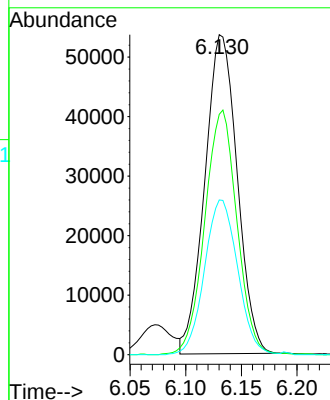
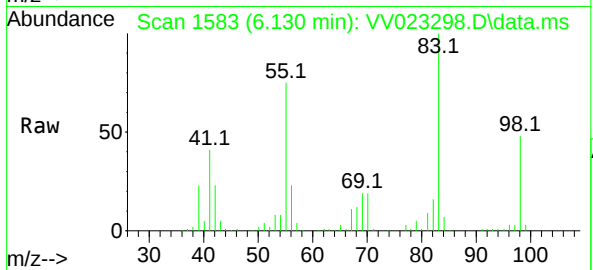




#35
Methylcyclohexane
Concen: 6.083 ug/L
RT: 6.130 min Scan# 1583
Delta R.T. -0.000 min
Lab File: VV023298.D
Acq: 09 Nov 2021 12:47

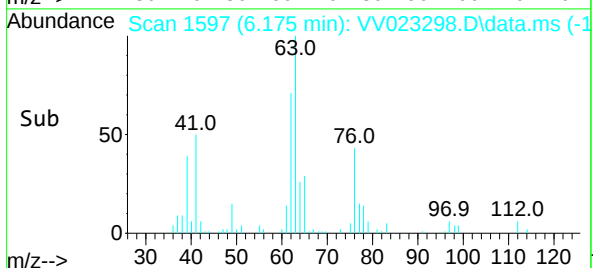
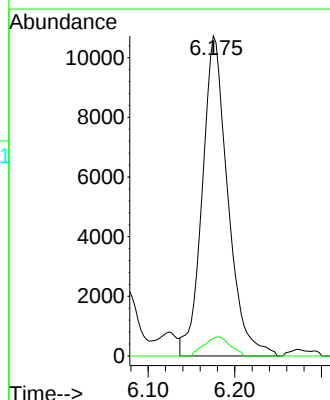
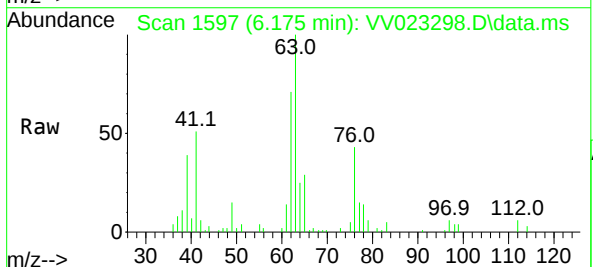
Instrument :
MSVOA_V
ClientSampleId :
GB864

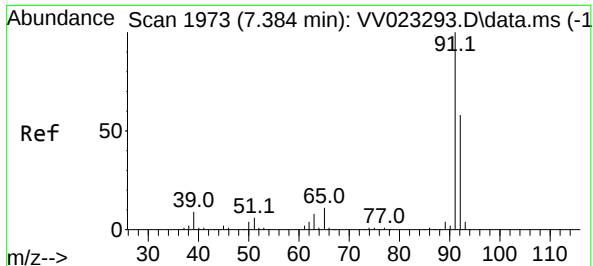
Tgt Ion: 83 Resp: 108639
Ion Ratio Lower Upper
83 100
55 76.2 62.8 94.2
98 49.6 37.9 56.9



#37
1,2-Dichloropropane
Concen: 2.211 ug/L
RT: 6.175 min Scan# 1597
Delta R.T. 0.003 min
Lab File: VV023298.D
Acq: 09 Nov 2021 12:47

Tgt Ion: 63 Resp: 21965
Ion Ratio Lower Upper
63 100
112 6.1 4.6 6.8

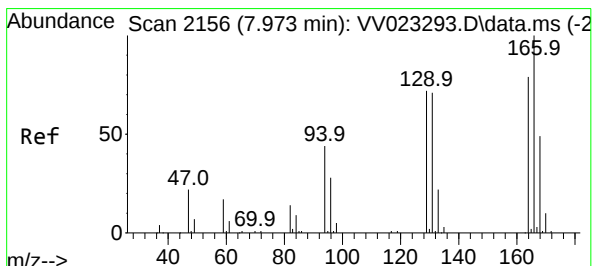
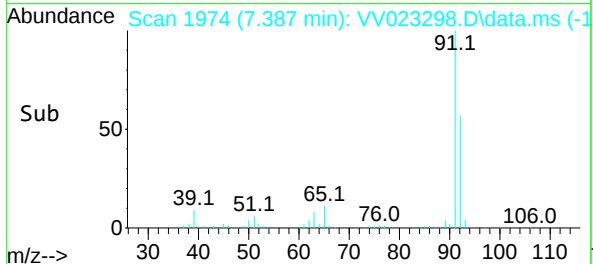
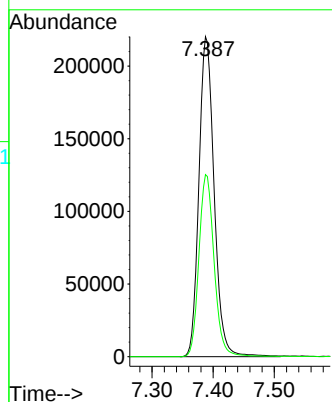
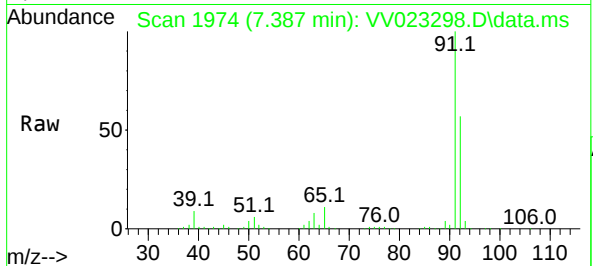




#42
Toluene
Concen: 8.370 ug/L
RT: 7.387 min Scan# 1973
Delta R.T. -0.000 min
Lab File: VV023298.D
Acq: 09 Nov 2021 12:47

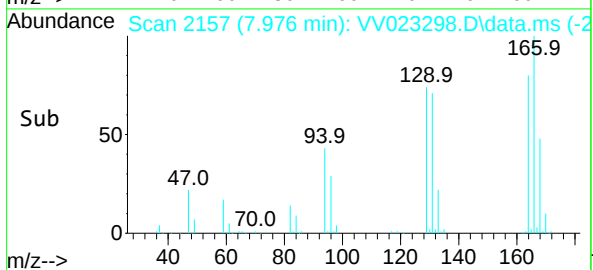
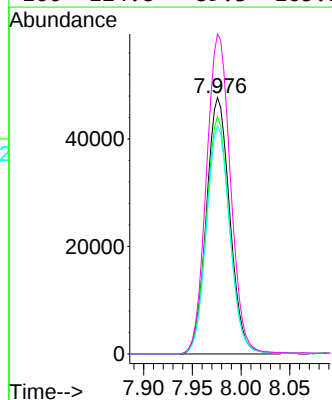
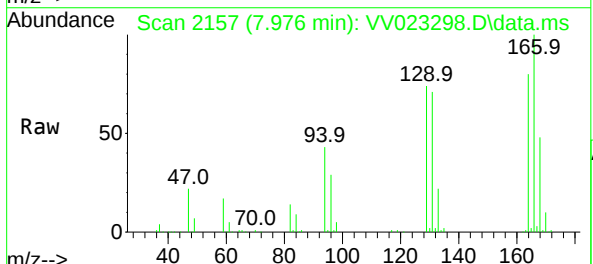
Instrument :
MSVOA_V
ClientSampleId :
GB864

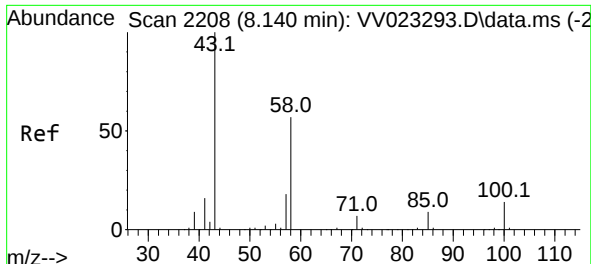
Tgt Ion: 91 Resp: 380969
Ion Ratio Lower Upper
91 100
92 56.9 39.3 72.9



#47
Tetrachloroethene
Concen: 8.171 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. 0.003 min
Lab File: VV023298.D
Acq: 09 Nov 2021 12:47

Tgt Ion: 164 Resp: 80133
Ion Ratio Lower Upper
164 100
129 92.6 64.0 119.0
131 89.1 63.4 117.8
166 124.8 89.3 165.9



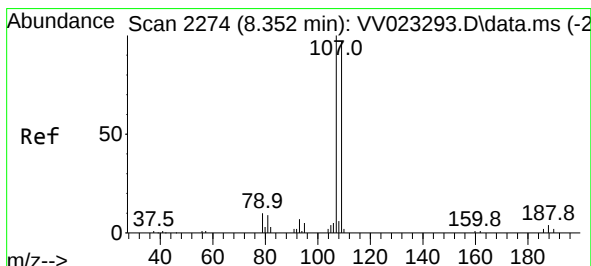
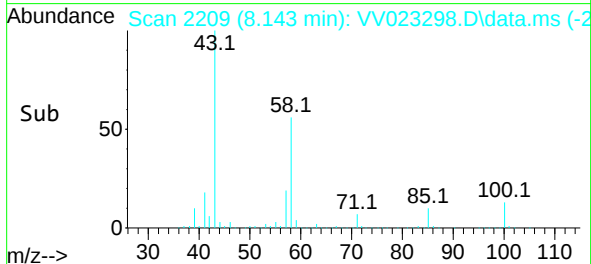
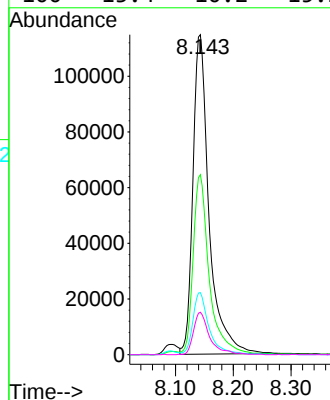
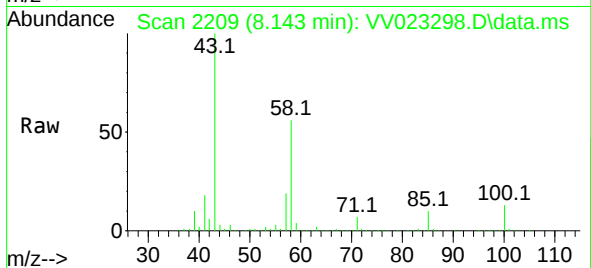


#48
2-Hexanone
Concen: 69.094 ug/L
RT: 8.143 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV023298.D
Acq: 09 Nov 2021 12:47

Instrument :
MSVOA_V
ClientSampleId :
GB864

Tgt Ion: 43 Resp: 223065

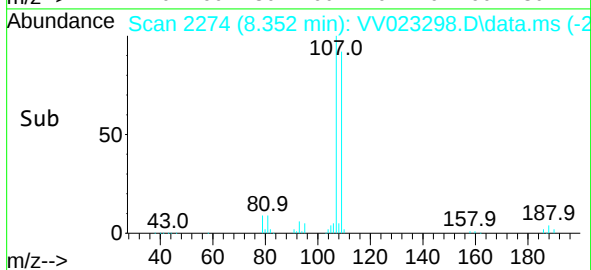
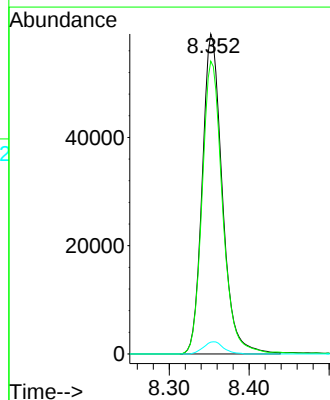
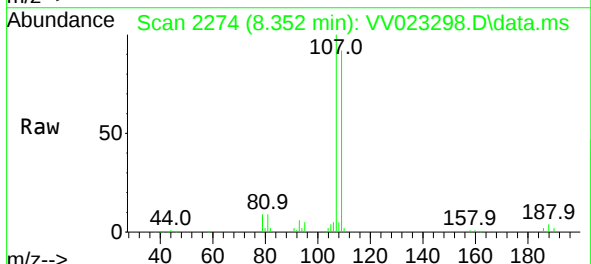
Ion	Ratio	Lower	Upper
43	100		
58	54.8	43.7	65.5
57	19.0	14.1	21.1
100	13.4	10.2	15.2

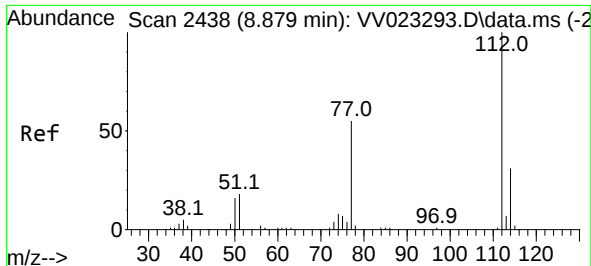


#50
1,2-Dibromoethane
Concen: 15.564 ug/L
RT: 8.352 min Scan# 2274
Delta R.T. -0.000 min
Lab File: VV023298.D
Acq: 09 Nov 2021 12:47

Tgt Ion: 107 Resp: 102951

Ion	Ratio	Lower	Upper
107	100		
109	91.5	64.7	120.1
188	3.7	3.6	5.4

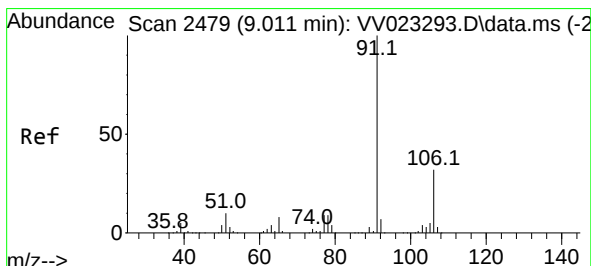
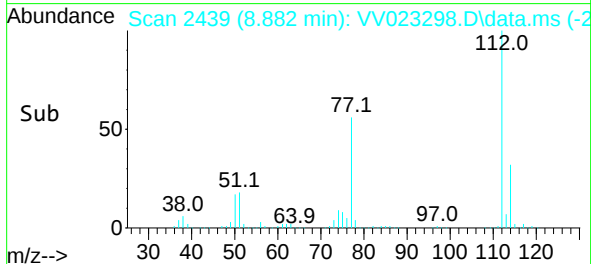
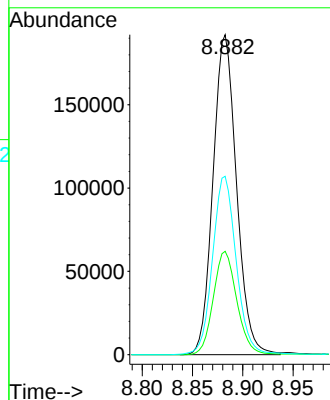
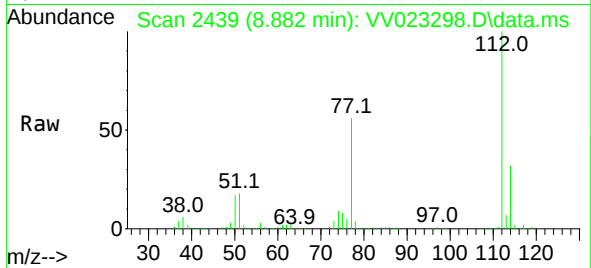




#51
Chlorobenzene
Concen: 10.335 ug/L
RT: 8.882 min Scan# 2438
Delta R.T. 0.003 min
Lab File: VV023298.D
Acq: 09 Nov 2021 12:47

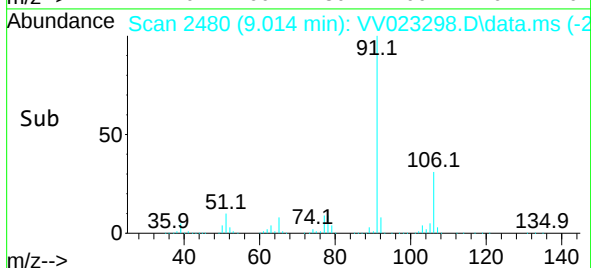
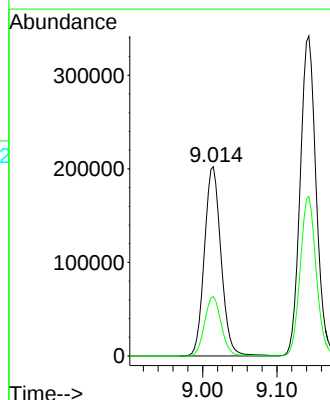
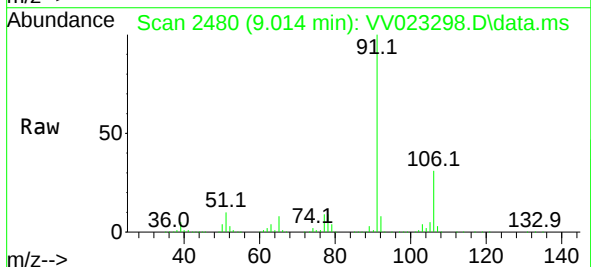
Instrument :
MSVOA_V
ClientSampleId :
GB864

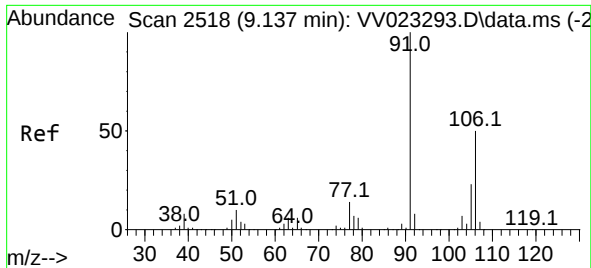
Tgt Ion:112 Resp: 312665
Ion Ratio Lower Upper
112 100
114 32.3 22.0 40.8
77 55.8 44.4 66.6



#52
Ethylbenzene
Concen: 6.561 ug/L
RT: 9.014 min Scan# 2480
Delta R.T. 0.003 min
Lab File: VV023298.D
Acq: 09 Nov 2021 12:47

Tgt Ion: 91 Resp: 314933
Ion Ratio Lower Upper
91 100
106 31.4 22.5 41.9

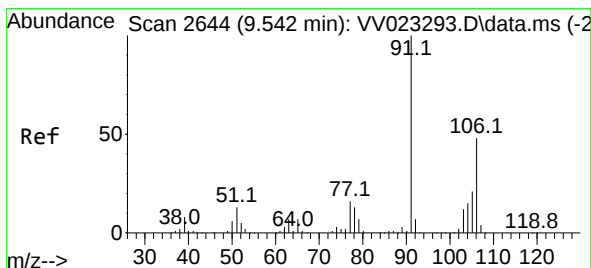
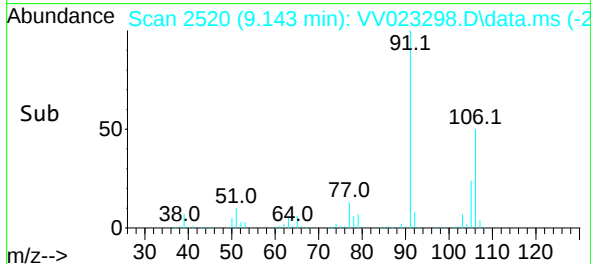
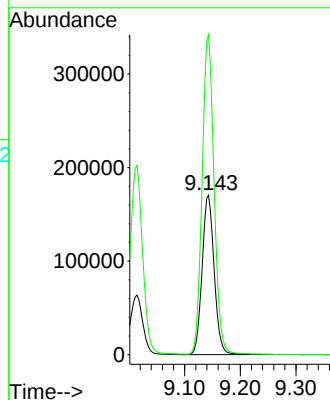
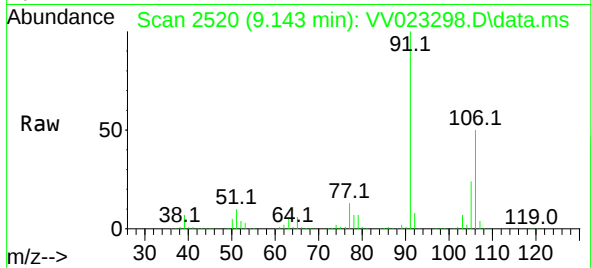




#53
m,p-xylene
Concen: 13.591 ug/L
RT: 9.143 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV023298.D
Acq: 09 Nov 2021 12:47

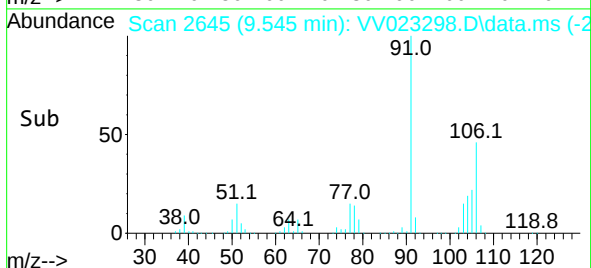
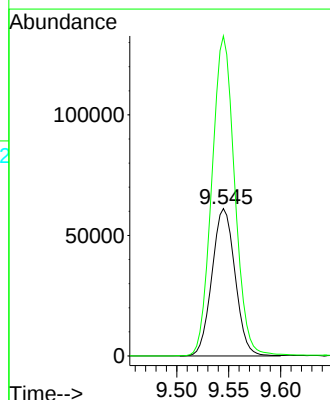
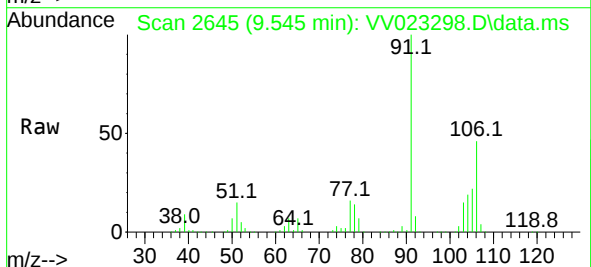
Instrument :
MSVOA_V
ClientSampleId :
GB864

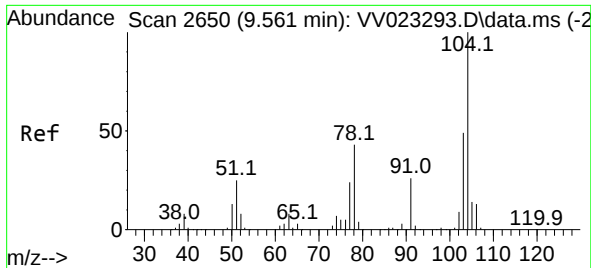
Tgt Ion:106 Resp: 256036
Ion Ratio Lower Upper
106 100
91 200.6 137.2 254.8



#54
o-xylene
Concen: 5.352 ug/L
RT: 9.545 min Scan# 2645
Delta R.T. -0.000 min
Lab File: VV023298.D
Acq: 09 Nov 2021 12:47

Tgt Ion:106 Resp: 94593
Ion Ratio Lower Upper
106 100
91 217.0 148.3 275.5

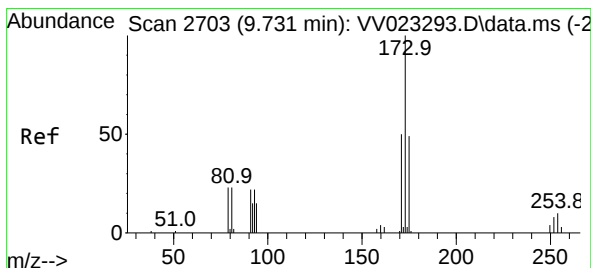
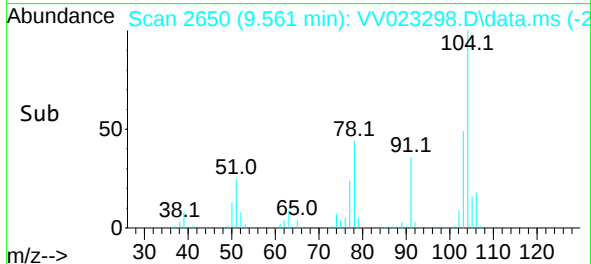
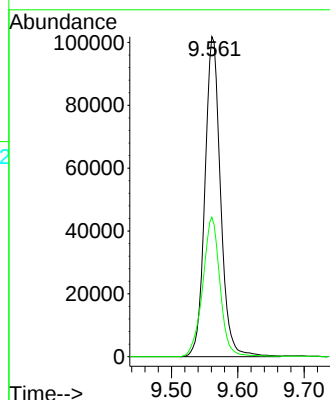
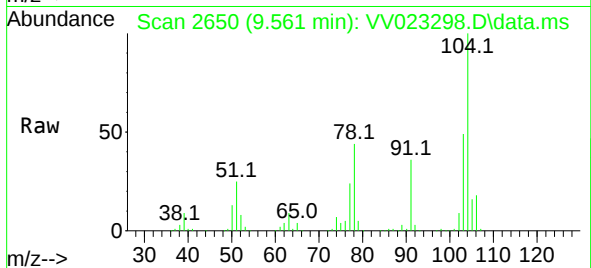




#55
Styrene
Concen: 5.510 ug/L
RT: 9.561 min Scan# 2703
Delta R.T. -0.000 min
Lab File: VV023298.D
Acq: 09 Nov 2021 12:47

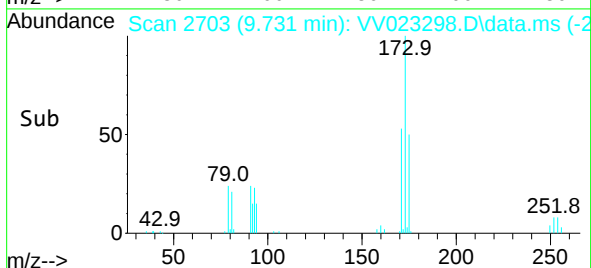
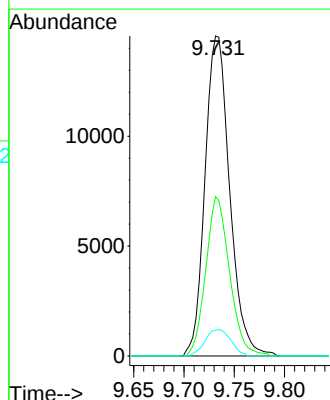
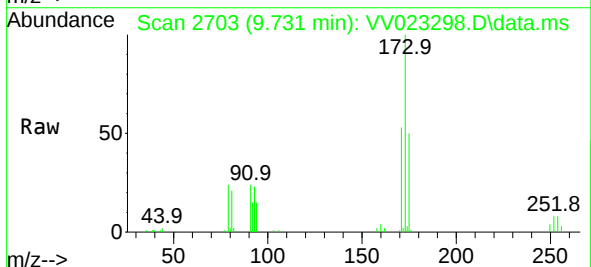
Instrument :
MSVOA_V
ClientSampleId :
GB864

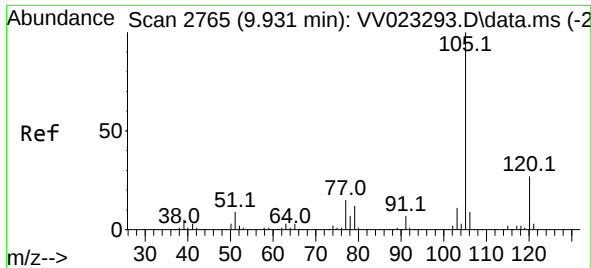
Tgt Ion:104 Resp: 166817
Ion Ratio Lower Upper
104 100
78 43.6 29.3 54.3



#59
Bromoform
Concen: 5.401 ug/L
RT: 9.731 min Scan# 2703
Delta R.T. -0.000 min
Lab File: VV023298.D
Acq: 09 Nov 2021 12:47

Tgt Ion:173 Resp: 24857
Ion Ratio Lower Upper
173 100
175 47.9 38.2 57.2
254 8.6 6.2 9.2

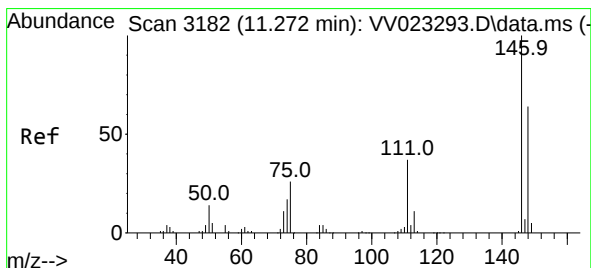
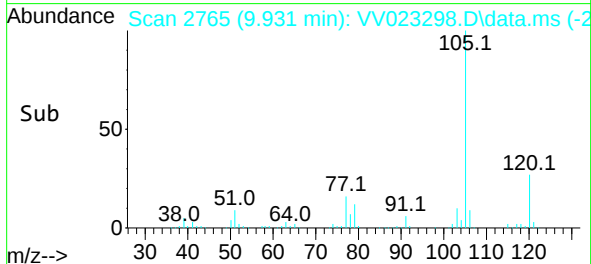
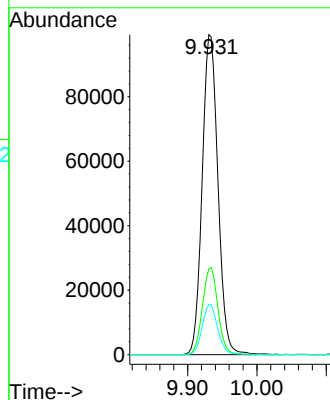
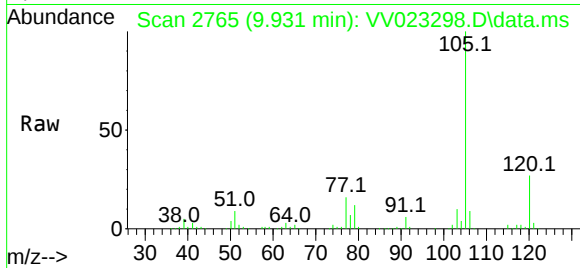




#60
Isopropylbenzene
Concen: 3.539 ug/L
RT: 9.931 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV023298.D
Acq: 09 Nov 2021 12:47

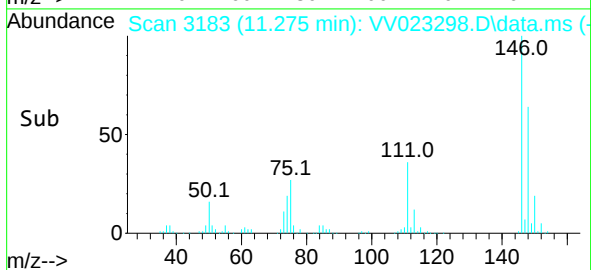
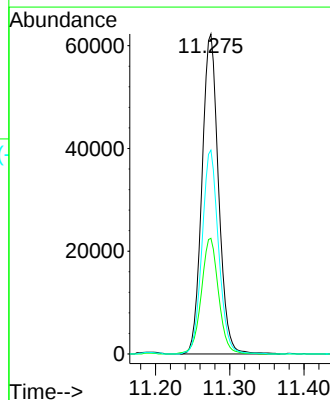
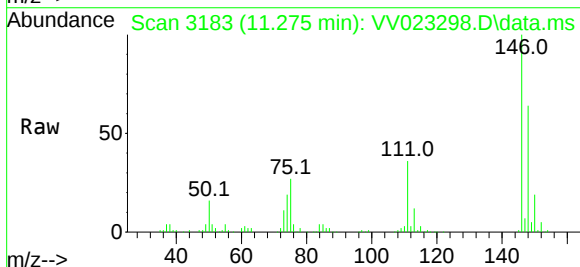
Instrument :
MSVOA_V
ClientSampleId :
GB864

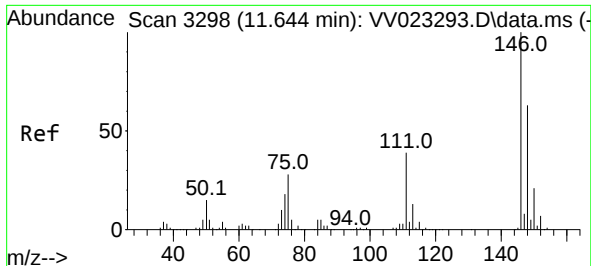
Tgt Ion:105 Resp: 156467
Ion Ratio Lower Upper
105 100
120 26.7 21.7 32.5
77 15.6 12.6 19.0



#65
1,4-Dichlorobenzene
Concen: 4.181 ug/L
RT: 11.275 min Scan# 3183
Delta R.T. 0.003 min
Lab File: VV023298.D
Acq: 09 Nov 2021 12:47

Tgt Ion:146 Resp: 96450
Ion Ratio Lower Upper
146 100
111 36.2 26.2 48.8
148 63.7 44.4 82.5





#67

1,2-Dichlorobenzene

Concen: 12.527 ug/L

RT: 11.644 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV023298.D

Acq: 09 Nov 2021 12:47

Instrument :

MSVOA_V

ClientSampleId :

GB864

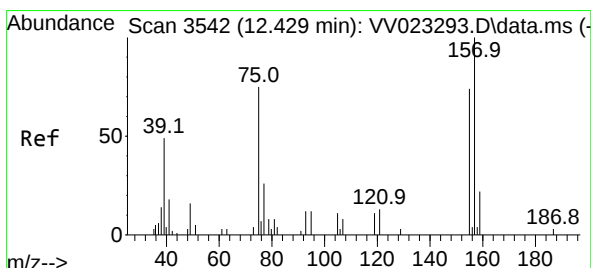
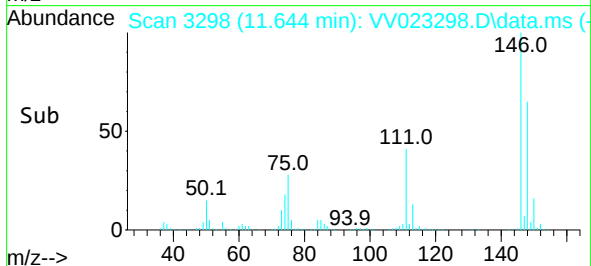
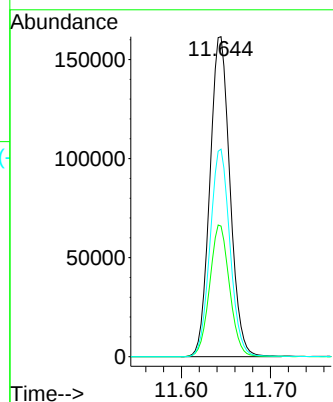
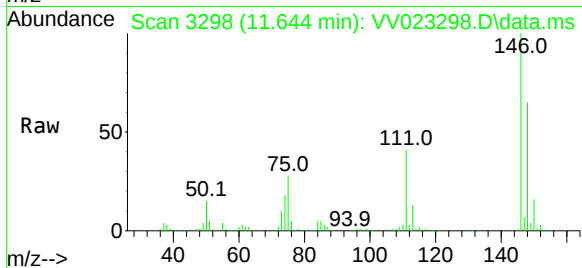
Tgt Ion:146 Resp: 253219

Ion Ratio Lower Upper

146 100

111 40.8 31.6 47.4

148 64.9 51.0 76.6



#68

1,2-Dibromo-3-chloropropane

Concen: 4.382 ug/L

RT: 12.429 min Scan# 3542

Delta R.T. -0.000 min

Lab File: VV023298.D

Acq: 09 Nov 2021 12:47

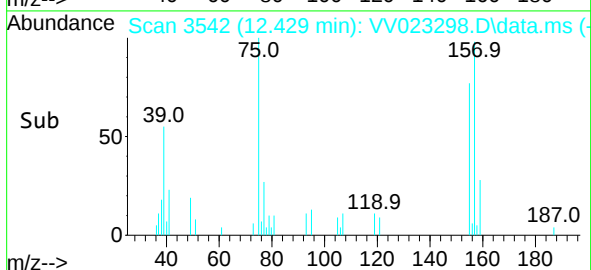
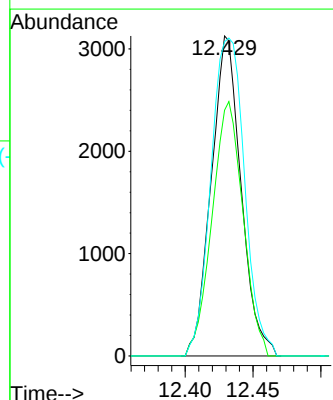
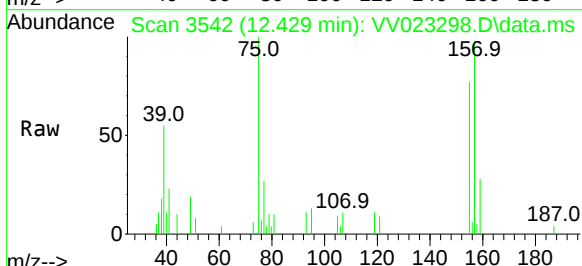
Tgt Ion: 75 Resp: 4778

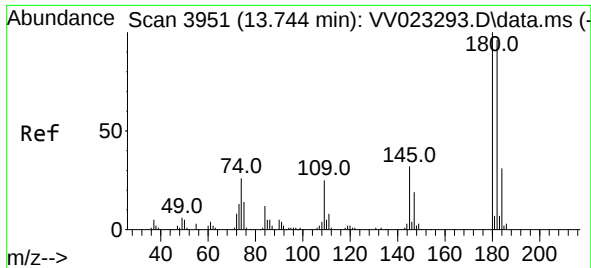
Ion Ratio Lower Upper

75 100

155 76.8 67.7 101.5

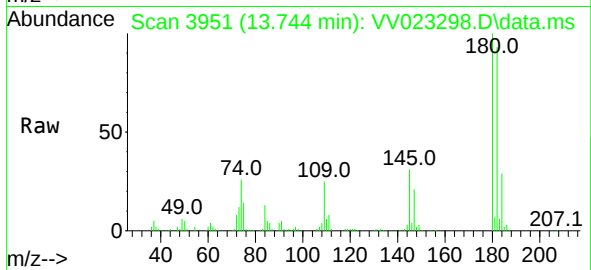
157 98.2 87.9 131.9





#72
 1,2,3-Trichlorobenzene
 Concen: 10.421 ug/L
 RT: 13.744 min Scan# 3951
 Delta R.T. -0.000 min
 Lab File: VV023298.D
 Acq: 09 Nov 2021 12:47

Instrument :
 MSVOA_V
 ClientSampleId :
 GB864



Tgt Ion:	180	Resp:	129143
Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.7	115.1
145	31.7	25.7	38.5

