

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW110621\
 Data File : VW020777.D
 Acq On : 05 Nov 2021 13:49
 Operator : SY/VA
 Sample : M4511-07
 Misc : 5.00g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 A42A3

Quant Time: Nov 08 04:52:29 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM110621SMA.M
 Quant Title : SFAM01.0
 QLast Update : Mon Nov 08 04:38:07 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	162725	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.634	117	151008	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	82435	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.349	65	33374	21.813	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.240%
7) Chloroethane-d5	2.879	69	19639	22.658	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.640%
11) 1,1-Dichloroethene-d2	4.013	63	68154	21.223	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	84.880%
21) 2-Butanone-d5	7.074	46	22906	45.081	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	90.160%
24) Chloroform-d	7.647	84	80585	22.288	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	89.160%
26) 1,2-Dichloroethane-d4	8.305	65	42955	22.316	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	89.280%
32) Benzene-d6	8.275	84	154561	22.654	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	90.600%
36) 1,2-Dichloropropane-d6	9.274	67	48462	22.942	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	91.760%
41) Toluene-d8	10.323	98	147801	22.267	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	89.080%
43) trans-1,3-Dichloroprop...	10.579	79	22772	21.735	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	86.960%
47) 2-Hexanone-d5	10.920	63	18738	43.842	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	87.680%
56) 1,1,2,2-Tetrachloroeth...	12.695	84	38212	21.828	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	87.320%
66) 1,2-Dichlorobenzene-d4	13.853	152	60596	23.390	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	93.560%
Target Compounds						
					Qvalue	
3) Chloromethane	2.215	50	33722	19.423	ug/L	98
6) Bromomethane	2.769	94	11783	9.092	ug/L	98
9) Trichlorofluoromethane	3.251	101	18403	13.855	ug/L	98
12) 1,1-Dichloroethene	4.044	96	42793	20.555	ug/L	72
13) Acetone	4.117	43	34151	73.145	ug/L	92
15) Methyl Acetate	4.665	43	31775	35.871	ug/L	95
16) Methylene chloride	4.909	84	24977	10.365	ug/L	87
17) trans-1,2-Dichloroethene	5.421	96	23773	10.742	ug/L	86
18) Methyl tert-butyl Ether	5.428	73	92491	29.536	ug/L	95
20) cis-1,2-Dichloroethene	7.165	96	61026	26.160	ug/L	88
23) Bromochloromethane	7.513	128	16237	15.083	ug/L #	74
27) 1,2-Dichloroethane	8.396	62	25273	9.784	ug/L	96
29) Cyclohexane	7.958	56	40347	10.241	ug/L	92
30) 1,1,1-Trichloroethane	7.872	97	36401	10.144	ug/L	95
31) Carbon tetrachloride	8.067	117	43197	12.650	ug/L	99
34) Trichloroethene	9.091	95	98529	40.929	ug/L	93
35) Methylcyclohexane	9.335	83	107203	25.519	ug/L	90
37) 1,2-Dichloropropane	9.366	63	27449	12.819	ug/L	98
38) Bromodichloromethane	9.646	83	59741	19.931	ug/L #	96

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 Quant Title : SFAM01.0
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 Response via : Initial Calibration

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

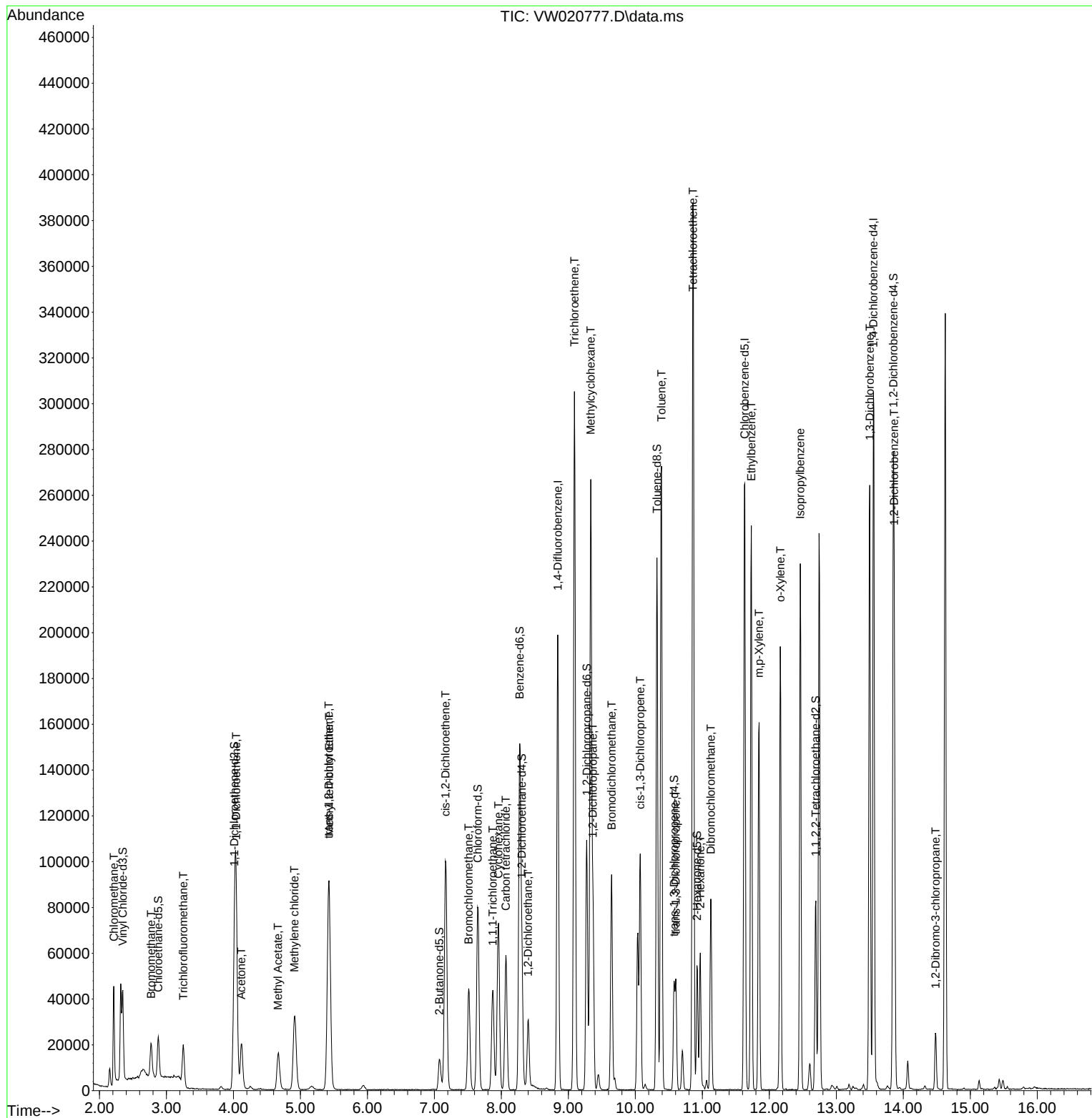
39) cis-1,3-Dichloropropene	10.073	75	57205	16.416	ug/L	98
42) Toluene	10.390	91	199081	20.471	ug/L	96
44) trans-1,3-Dichloropropene	10.603	75	23684	7.514	ug/L	99
46) Tetrachloroethene	10.859	164	90368	41.852	ug/L	97
48) 2-Hexanone	10.969	43	38809	37.979	ug/L	99
49) Dibromochloromethane	11.128	129	41981	19.346	ug/L	94
52) Ethylbenzene	11.731	91	171323	15.723	ug/L	97
53) m,p-Xylene	11.847	106	45516	10.426	ug/L	90
54) o-Xylene	12.164	106	51315	12.409	ug/L	93
60) Isopropylbenzene	12.463	105	142514	12.543	ug/L	95
64) 1,3-Dichlorobenzene	13.499	146	110731	21.020	ug/L	90
67) 1,2-Dichlorobenzene	13.865	146	48069	10.330	ug/L	96
68) 1,2-Dibromo-3-chloropr...	14.481	75	5879	17.654	ug/L #	65

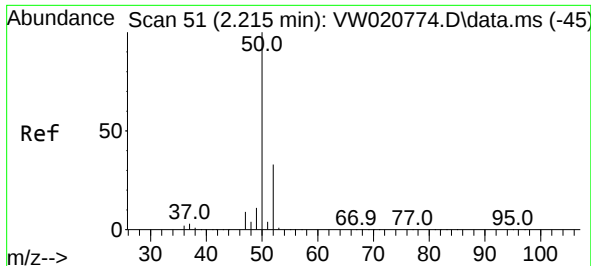
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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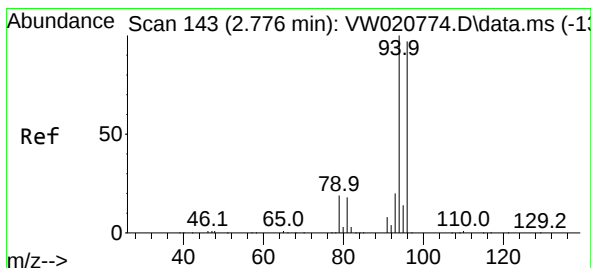
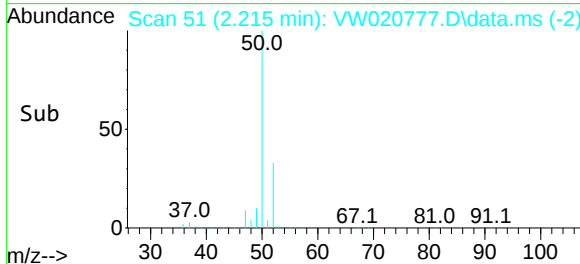
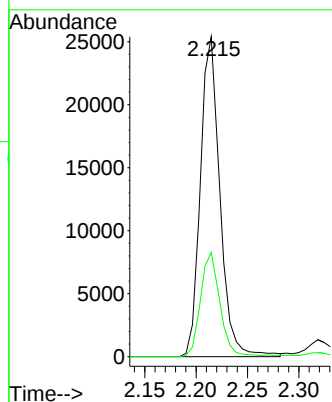
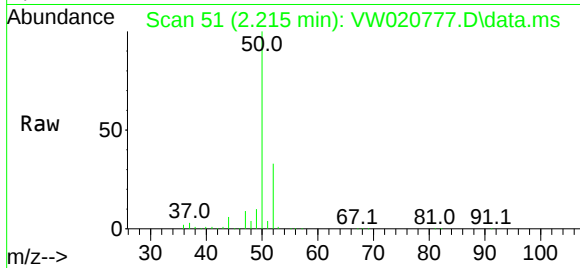




#3
Chloromethane
Concen: 19.423 ug/L
RT: 2.215 min Scan# 51
Delta R.T. -0.000 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

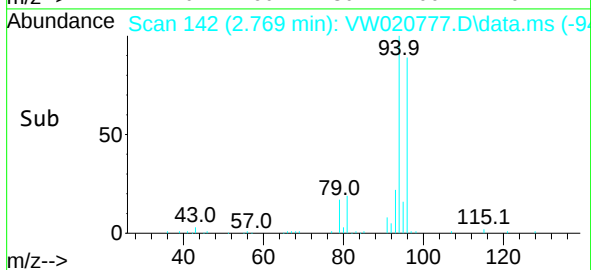
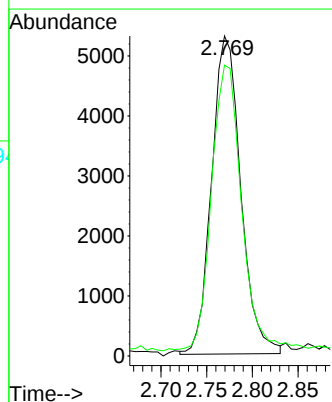
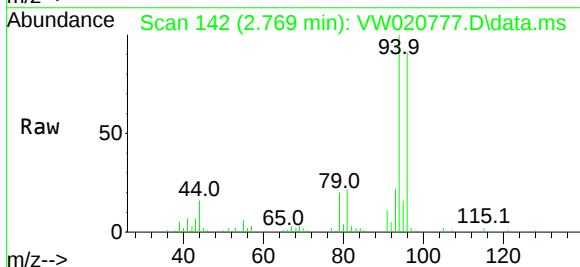
Instrument :
MSVOA_W
ClientSampleId :
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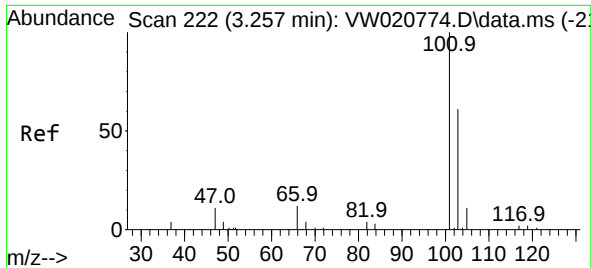
Tgt Ion: 50 Resp: 33722
Ion Ratio Lower Upper
50 100
52 32.6 23.4 43.6



#6
Bromomethane
Concen: 9.092 ug/L
RT: 2.769 min Scan# 142
Delta R.T. -0.007 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

Tgt Ion: 94 Resp: 11783
Ion Ratio Lower Upper
94 100
96 90.9 64.8 120.4

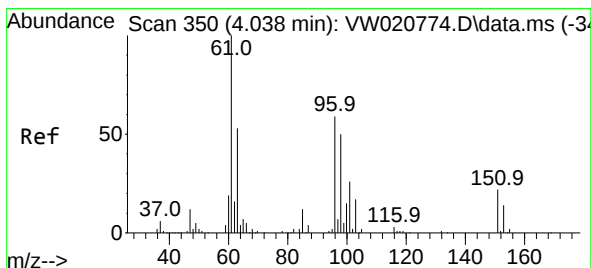
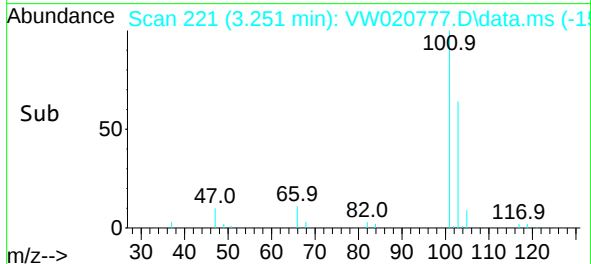
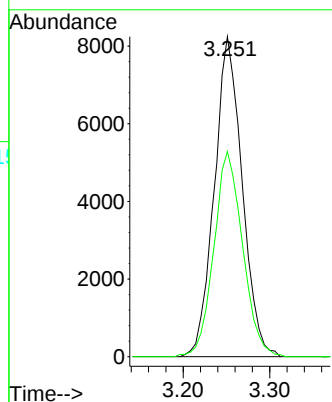
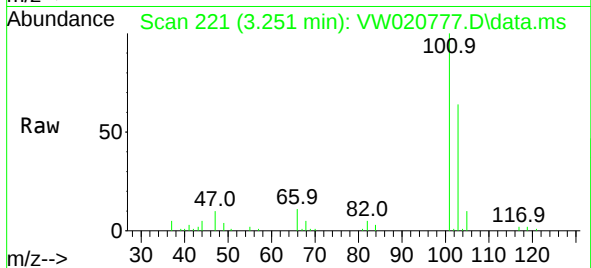




#9
 Trichlorofluoromethane
 Concen: 13.855 ug/L
 RT: 3.251 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VW020777.D
 Acq: 05 Nov 2021 13:49

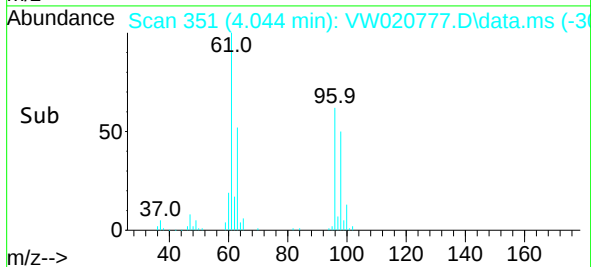
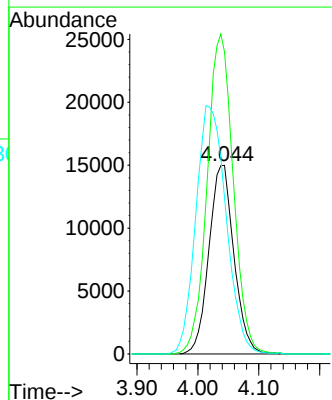
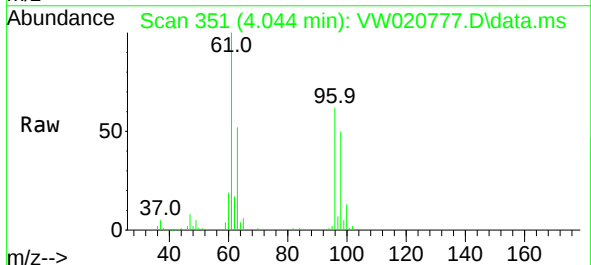
Instrument :
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 ClientSampleId :
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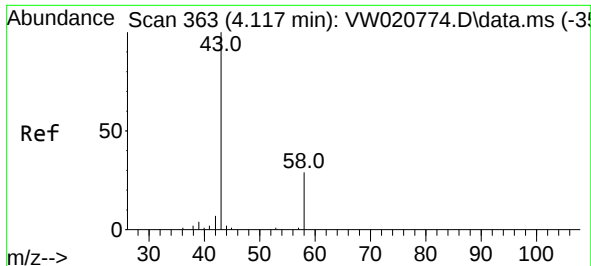
Tgt Ion:101 Resp: 18403
 Ion Ratio Lower Upper
 101 100
 103 66.1 51.4 77.2



#12
 1,1-Dichloroethene
 Concen: 20.555 ug/L
 RT: 4.044 min Scan# 351
 Delta R.T. 0.006 min
 Lab File: VW020777.D
 Acq: 05 Nov 2021 13:49

Tgt Ion: 96 Resp: 42793
 Ion Ratio Lower Upper
 96 100
 61 160.1 138.3 256.9
 63 83.0 82.6 153.4

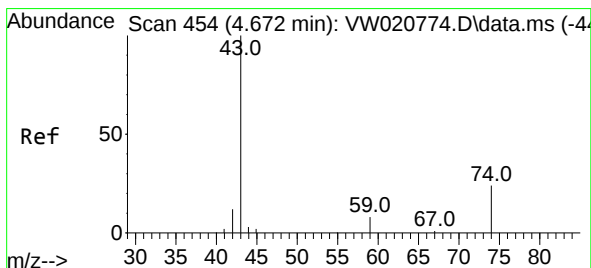
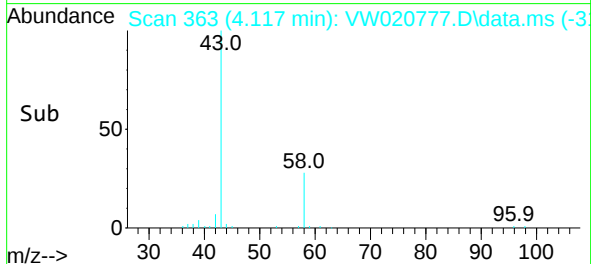
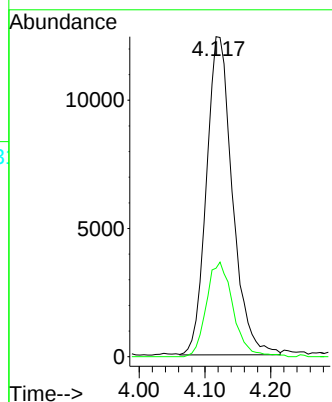
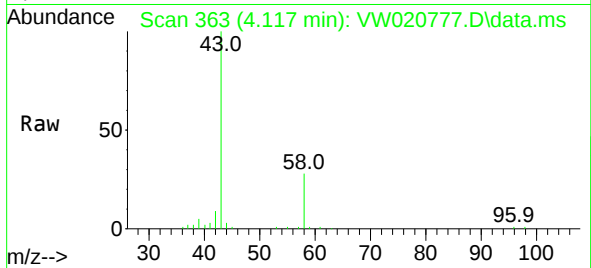




#13
Acetone
Concen: 73.145 ug/L
RT: 4.117 min Scan# 363
Delta R.T. -0.006 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

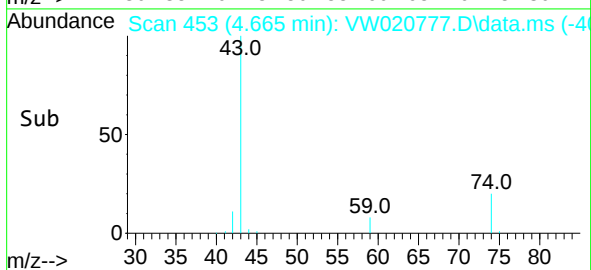
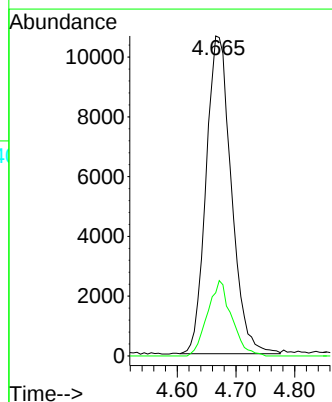
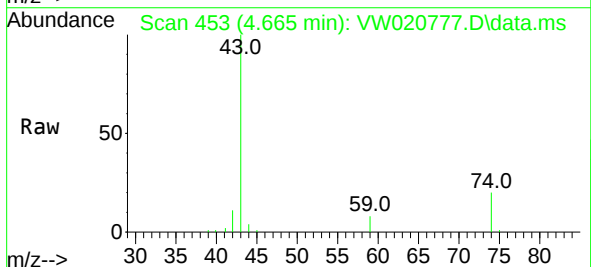
Instrument :
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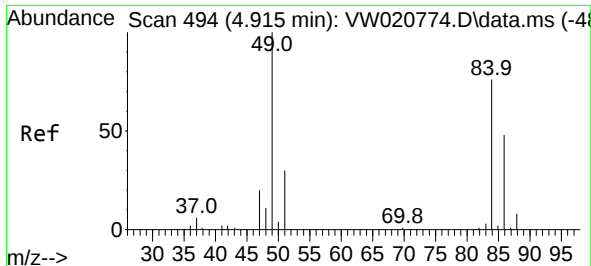
Tgt Ion: 43 Resp: 34151
Ion Ratio Lower Upper
43 100
58 30.5 0.0 52.8



#15
Methyl Acetate
Concen: 35.871 ug/L
RT: 4.665 min Scan# 453
Delta R.T. -0.006 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

Tgt Ion: 43 Resp: 31775
Ion Ratio Lower Upper
43 100
74 22.7 16.4 24.6

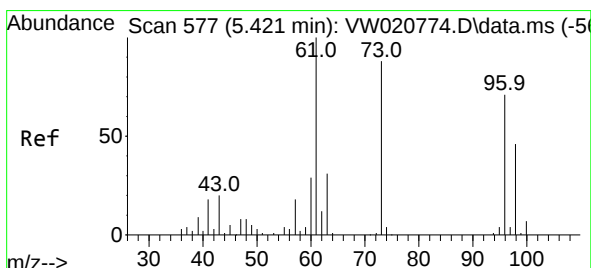
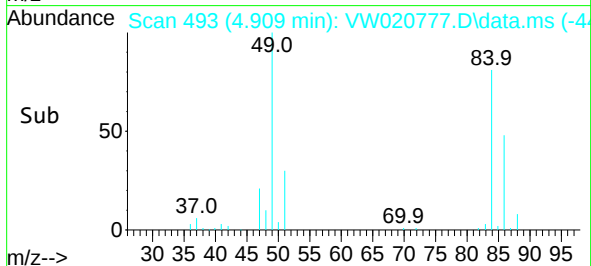
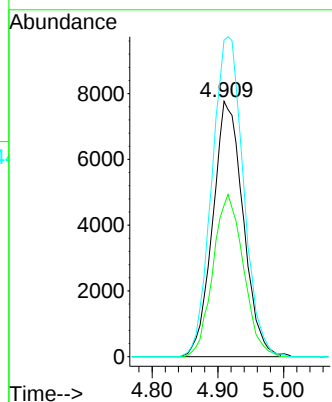
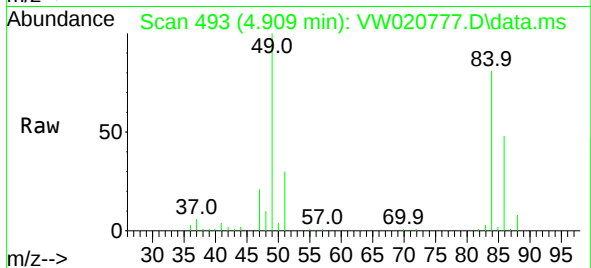




#16
Methylene chloride
Concen: 10.365 ug/L
RT: 4.909 min Scan# 494
Delta R.T. -0.013 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

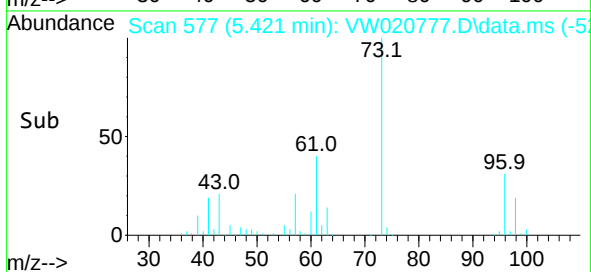
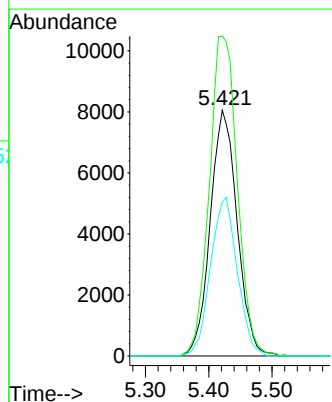
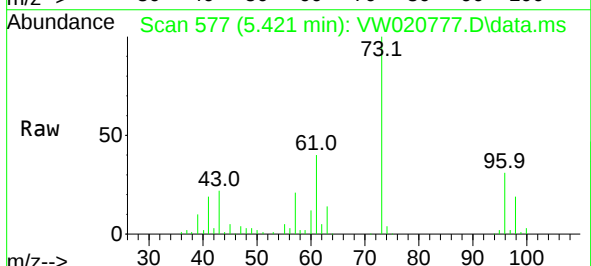
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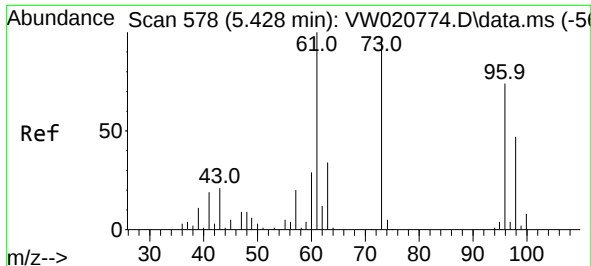
Tgt Ion: 84 Resp: 24977
Ion Ratio Lower Upper
84 100
86 59.3 45.5 84.5
49 124.0 100.5 186.7



#17
trans-1,2-Dichloroethene
Concen: 10.742 ug/L
RT: 5.421 min Scan# 577
Delta R.T. -0.007 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

Tgt Ion: 96 Resp: 23773
Ion Ratio Lower Upper
96 100
61 130.2 107.4 199.4
98 62.6 41.2 76.6

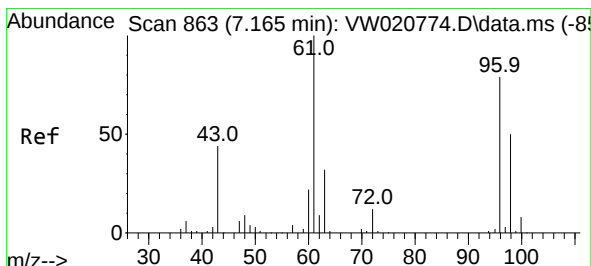
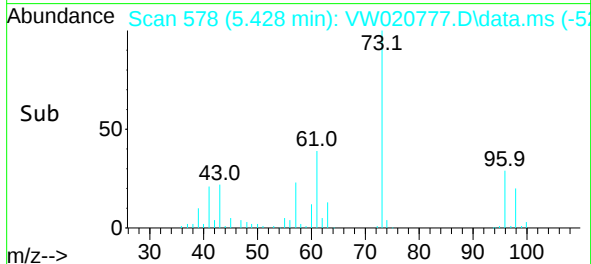
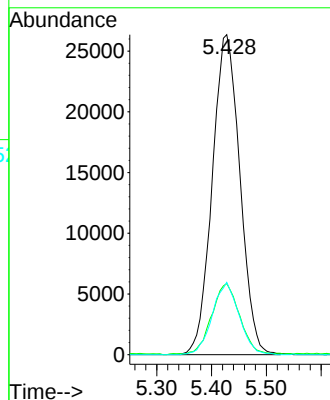
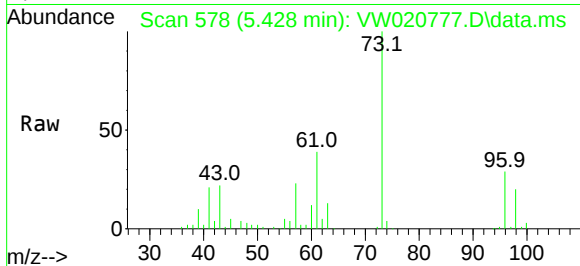




#18
Methyl tert-butyl Ether
Concen: 29.536 ug/L
RT: 5.428 min Scan# 518
Delta R.T. -0.000 min
Lab File: VW020777.D
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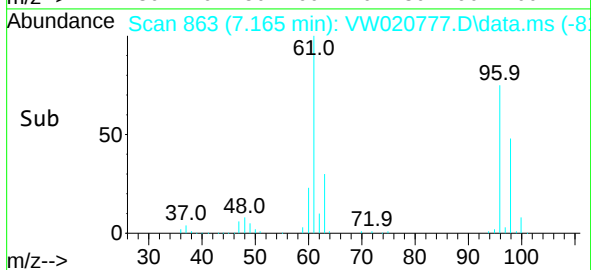
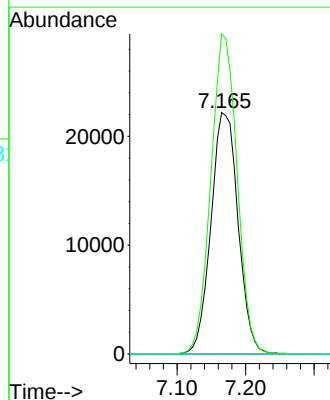
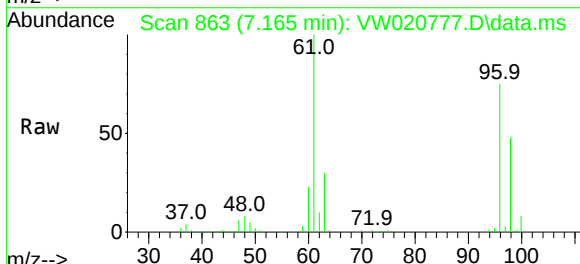
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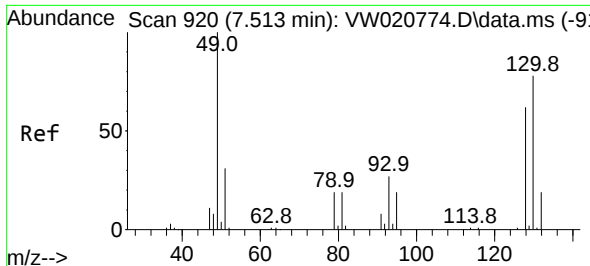
Tgt Ion: 73	Resp: 92491
Ion Ratio	Lower Upper
73 100	
43 21.8	19.5 29.3
57 21.9	19.3 28.9



#20
cis-1,2-Dichloroethene
Concen: 26.160 ug/L
RT: 7.165 min Scan# 863
Delta R.T. -0.006 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

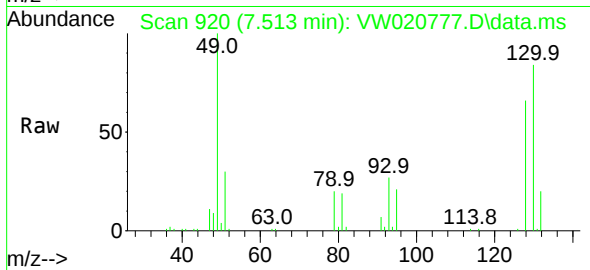
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Ion Ratio	Lower Upper
96 100	
61 132.5	103.7 192.7
68 0.0	0.0 0.0



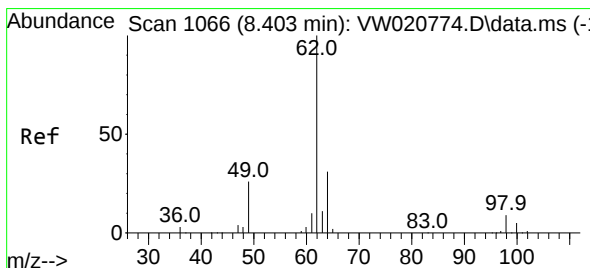
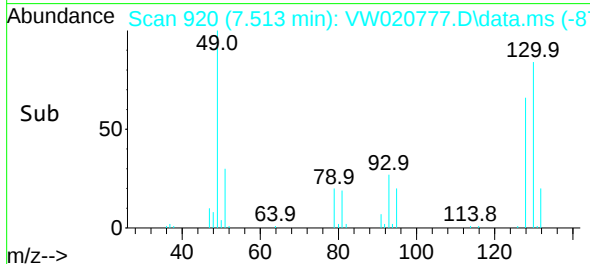
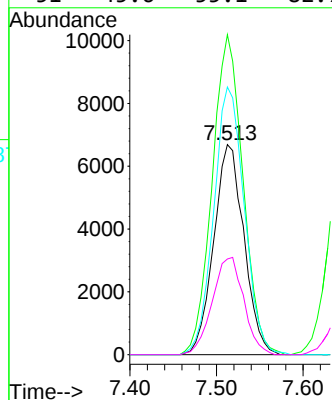


#23
 Bromochloromethane
 Concen: 15.083 ug/L
 RT: 7.513 min Scan# 91
 Delta R.T. -0.000 min
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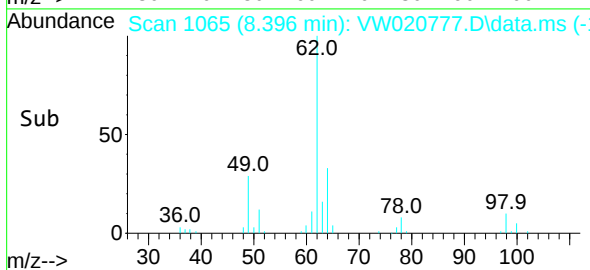
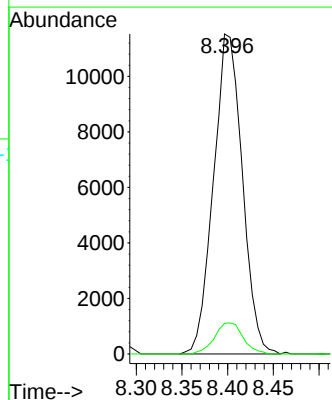
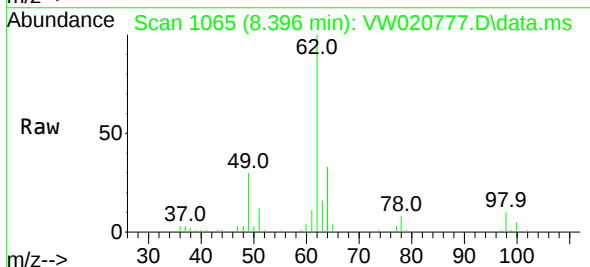


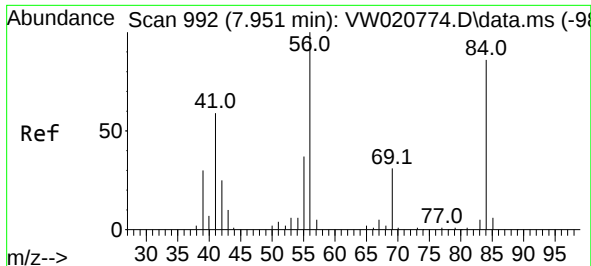
Tgt Ion:	128	Resp:	16237
Ion	Ratio	Lower	Upper
128	100		
49	152.3	150.3	279.1
130	127.4	88.3	163.9
51	45.6	55.1	82.7



#27
 1,2-Dichloroethane
 Concen: 9.784 ug/L
 RT: 8.396 min Scan# 1065
 Delta R.T. -0.007 min
 Lab File: VW020777.D
 Acq: 05 Nov 2021 13:49

Tgt Ion:	62	Resp:	25273
Ion	Ratio	Lower	Upper
62	100		
98	9.5	6.5	9.7

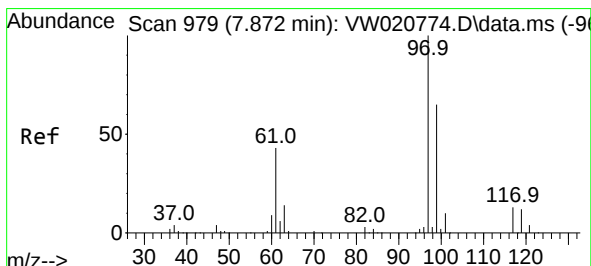
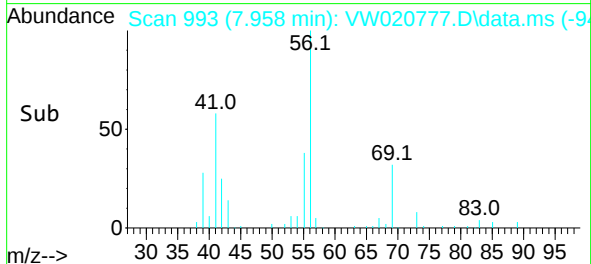
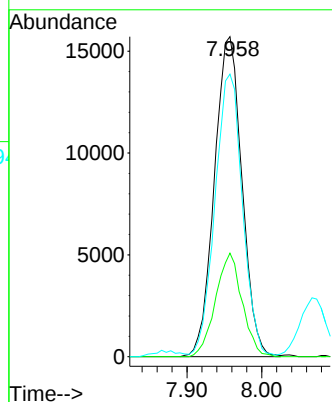
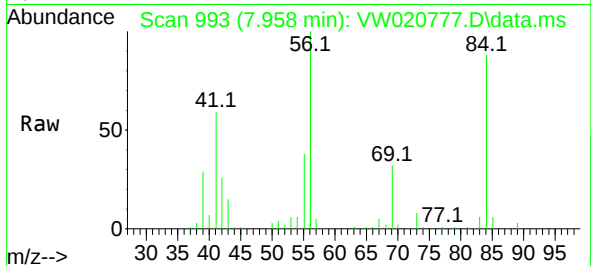




#29
Cyclohexane
Concen: 10.241 ug/L
RT: 7.958 min Scan# 992
Delta R.T. -0.000 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

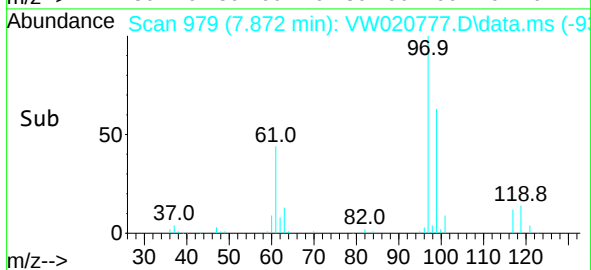
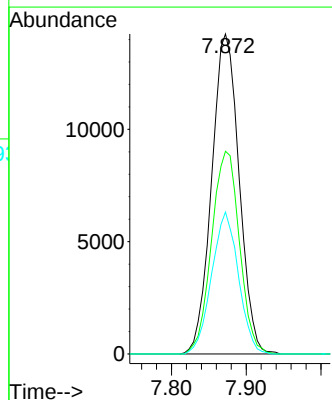
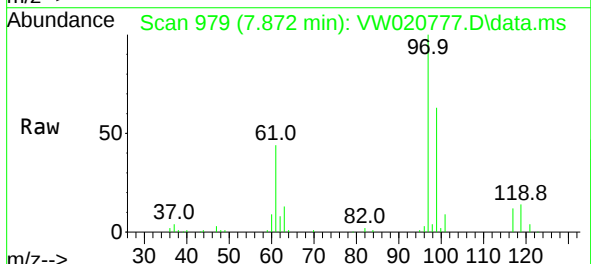
Instrument :
MSVOA_W
ClientSampleId :
A42A3

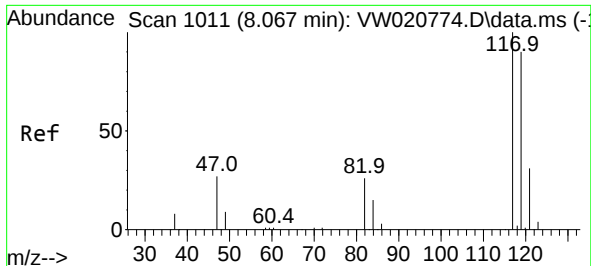
Tgt Ion: 56 Resp: 40347
Ion Ratio Lower Upper
56 100
69 31.1 23.5 35.3
84 88.0 63.4 95.2



#30
1,1,1-Trichloroethane
Concen: 10.144 ug/L
RT: 7.872 min Scan# 979
Delta R.T. 0.000 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

Tgt Ion: 97 Resp: 36401
Ion Ratio Lower Upper
97 100
99 64.3 51.6 77.4
61 43.3 40.9 61.3

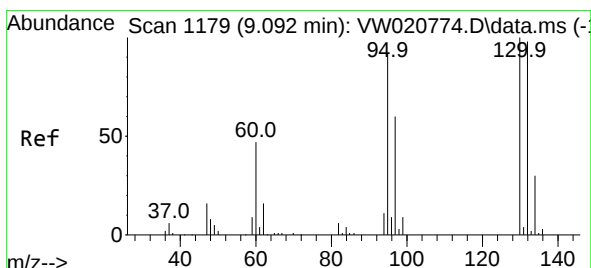
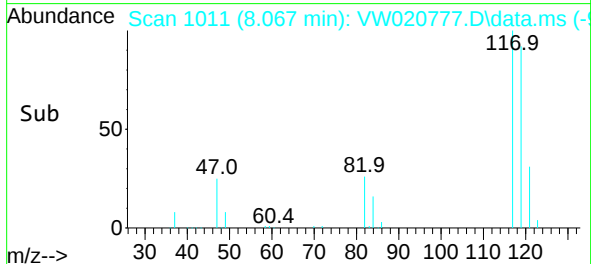
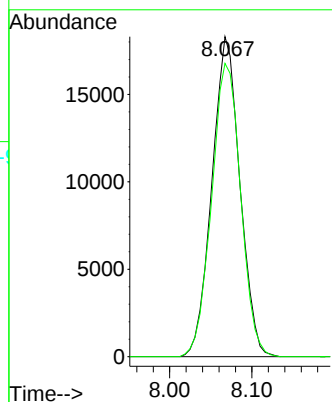
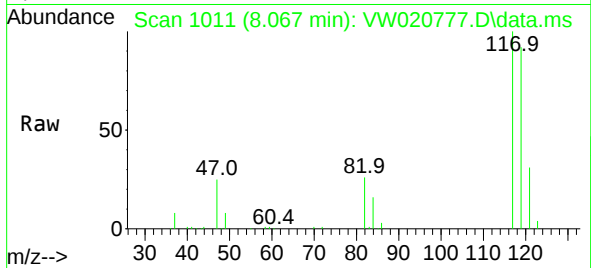




#31
Carbon tetrachloride
Concen: 12.650 ug/L
RT: 8.067 min Scan# 1011
Delta R.T. 0.000 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

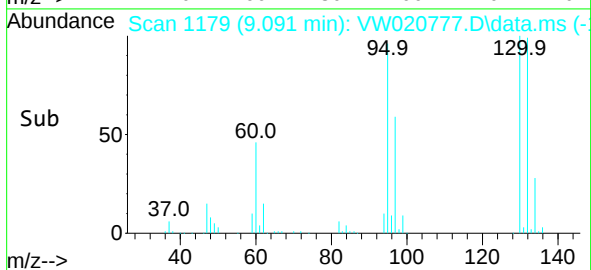
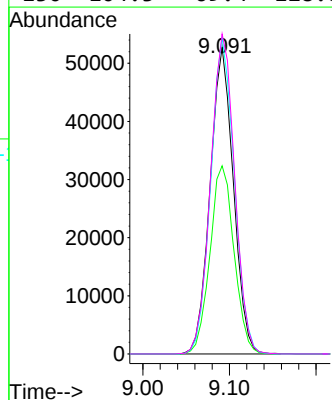
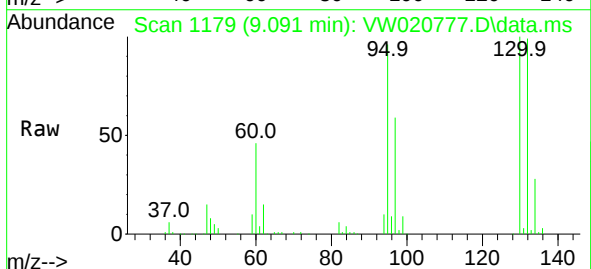
Instrument :
MSVOA_W
ClientSampleId :
A42A3

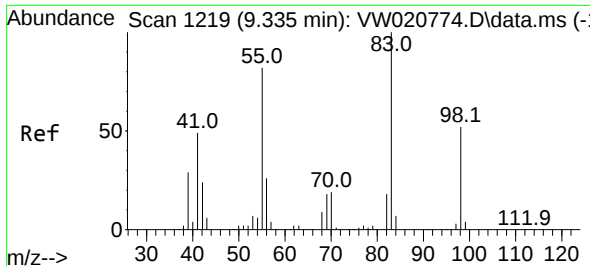
Tgt Ion: 117 Resp: 43197
Ion Ratio Lower Upper
117 100
119 95.3 75.7 113.5



#34
Trichloroethene
Concen: 40.929 ug/L
RT: 9.091 min Scan# 1179
Delta R.T. -0.000 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

Tgt Ion: 95 Resp: 98529
Ion Ratio Lower Upper
95 100
97 61.3 47.0 87.2
132 103.1 65.5 121.6
130 104.3 69.4 128.8





#35

Methylcyclohexane

Concen: 25.519 ug/L

RT: 9.335 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VW020777.D

Acq: 05 Nov 2021 13:49

Instrument :

MSVOA_W

ClientSampleId :

A42A3

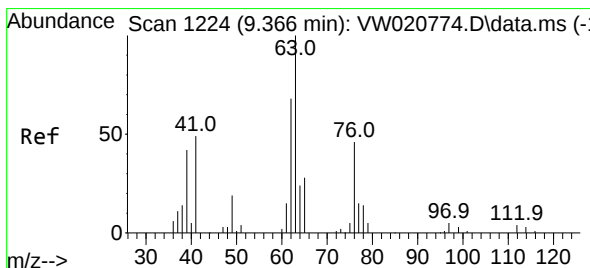
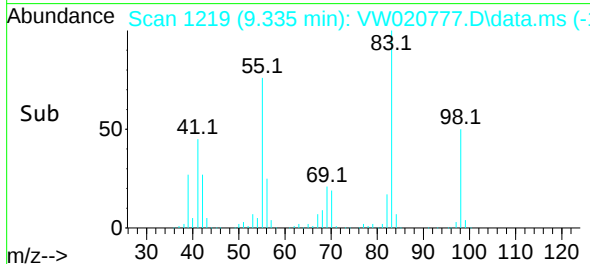
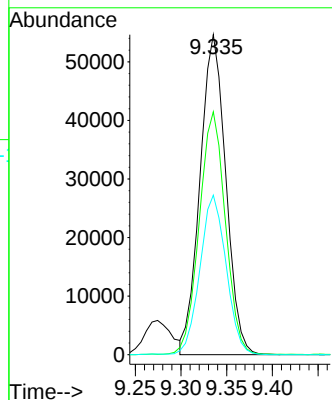
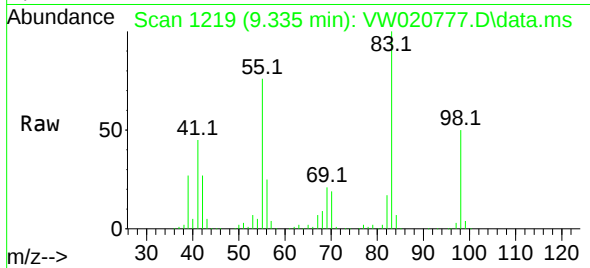
Tgt Ion: 83 Resp: 107203

Ion Ratio Lower Upper

83 100

55 76.7 70.8 106.2

98 50.5 37.7 56.5



#37

1,2-Dichloropropane

Concen: 12.819 ug/L

RT: 9.366 min Scan# 1224

Delta R.T. -0.006 min

Lab File: VW020777.D

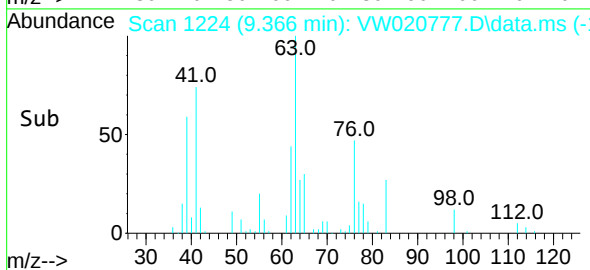
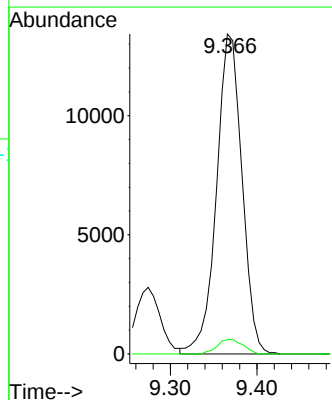
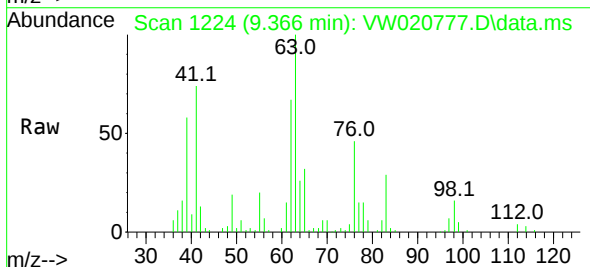
Acq: 05 Nov 2021 13:49

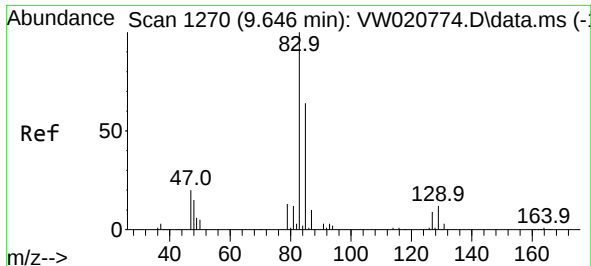
Tgt Ion: 63 Resp: 27449

Ion Ratio Lower Upper

63 100

112 4.6 3.2 4.8

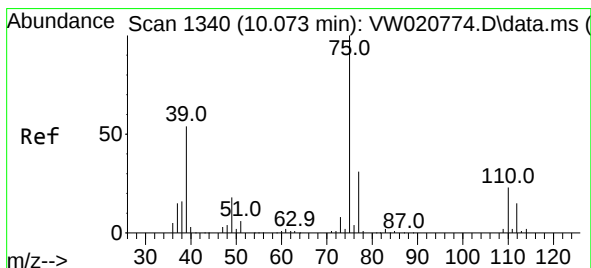
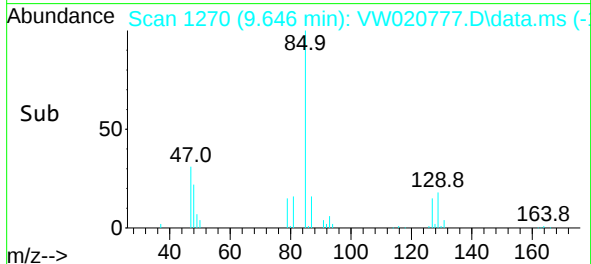
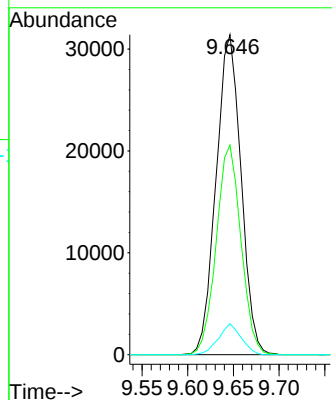
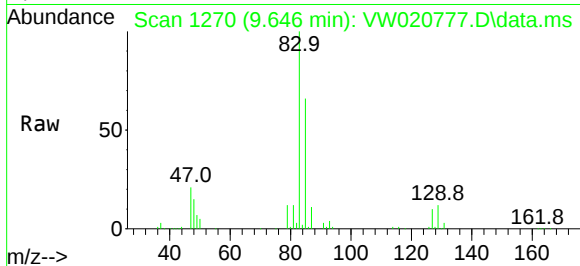




#38
Bromodichloromethane
Concen: 19.931 ug/L
RT: 9.646 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

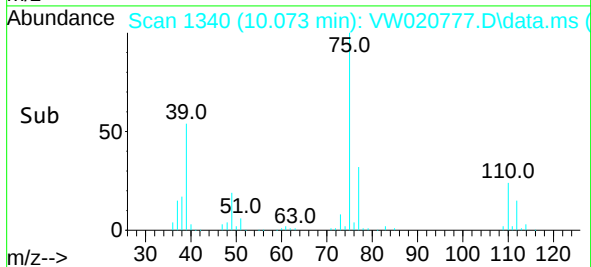
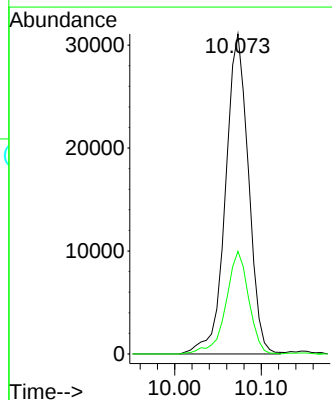
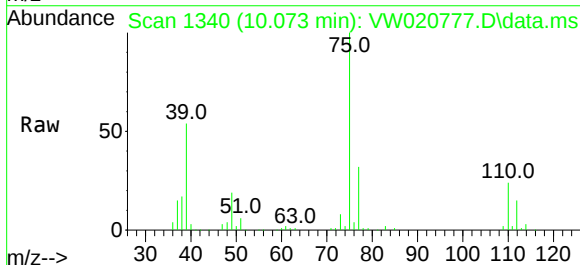
Instrument :
MSVOA_W
ClientSampleId :
A42A3

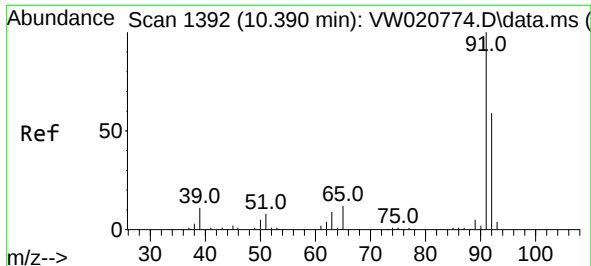
Tgt Ion: 83 Resp: 59741
Ion Ratio Lower Upper
83 100
85 65.5 44.1 81.9
127 9.7 6.1 9.1#



#39
cis-1,3-Dichloropropene
Concen: 16.416 ug/L
RT: 10.073 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

Tgt Ion: 75 Resp: 57205
Ion Ratio Lower Upper
75 100
77 32.0 21.8 40.6

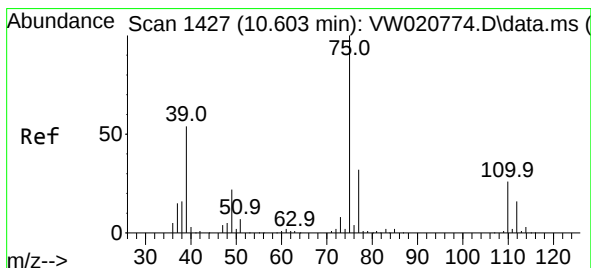
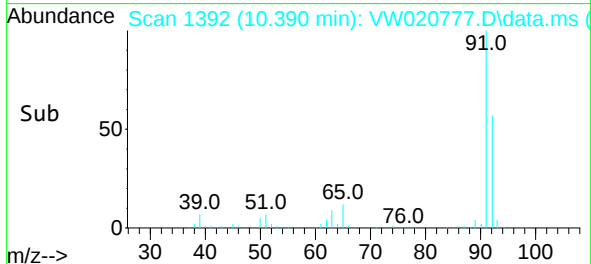
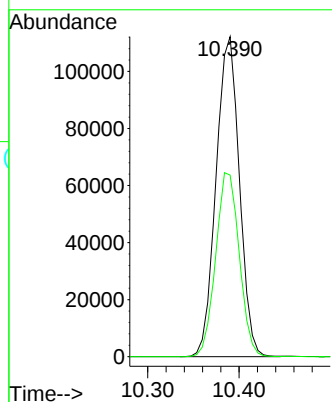
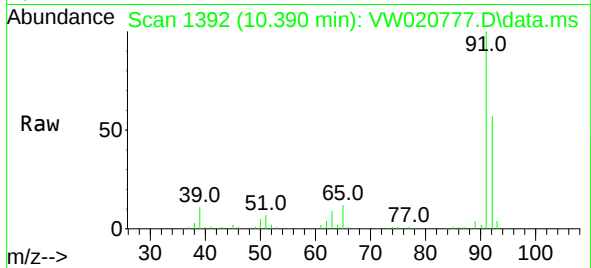




#42
Toluene
Concen: 20.471 ug/L
RT: 10.390 min Scan# 1392
Delta R.T. -0.000 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

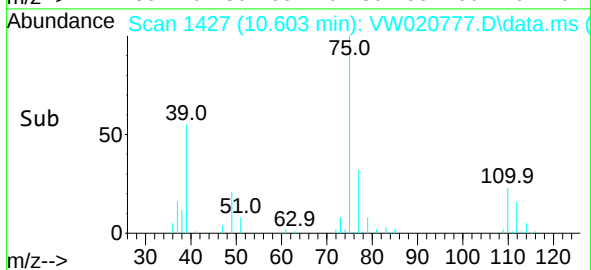
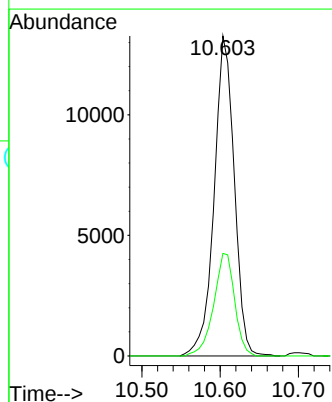
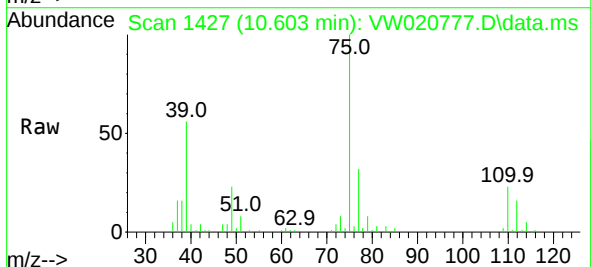
Instrument :
MSVOA_W
ClientSampleId :
A42A3

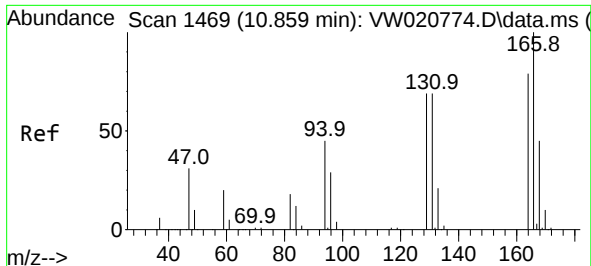
Tgt Ion: 91 Resp: 199081
Ion Ratio Lower Upper
91 100
92 56.8 41.7 77.5



#44
trans-1,3-Dichloropropene
Concen: 7.514 ug/L
RT: 10.603 min Scan# 1427
Delta R.T. -0.001 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

Tgt Ion: 75 Resp: 23684
Ion Ratio Lower Upper
75 100
77 32.0 22.2 41.2

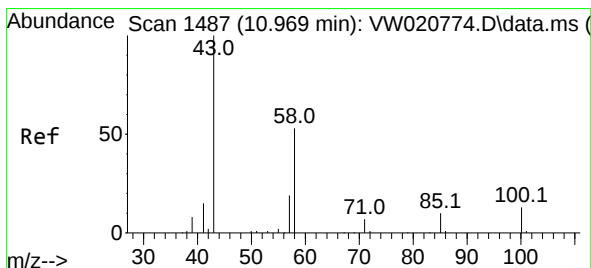
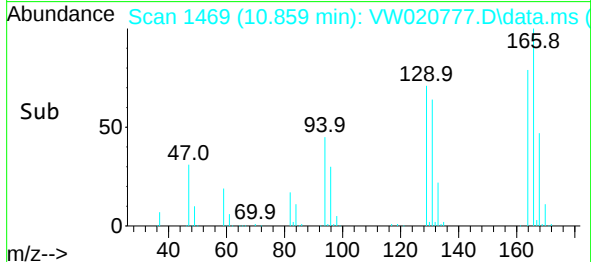
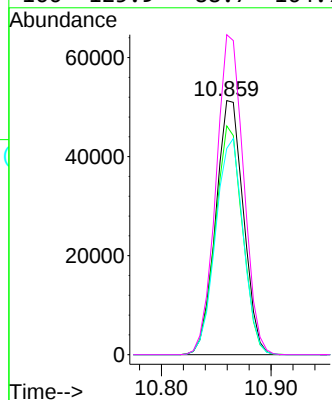
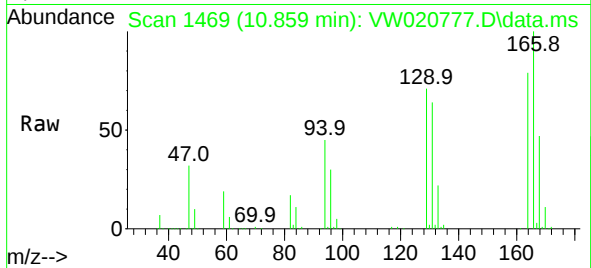




#46
Tetrachloroethene
Concen: 41.852 ug/L
RT: 10.859 min Scan# 1469
Delta R.T. -0.000 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

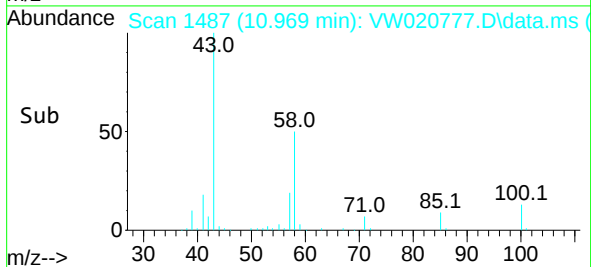
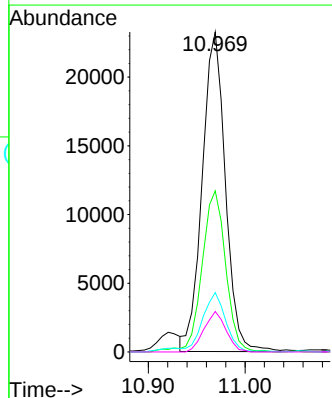
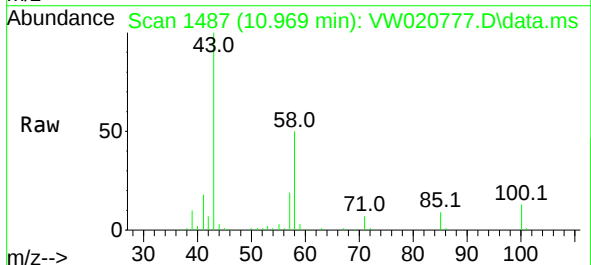
Instrument :
MSVOA_W
ClientSampleId :
A42A3

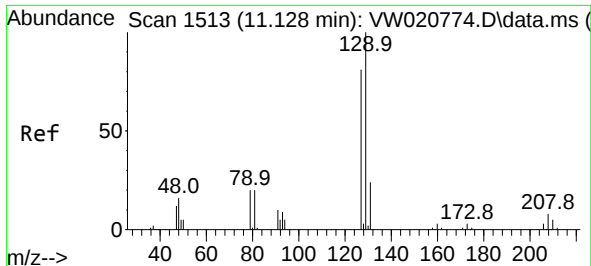
Tgt Ion:164 Resp: 90368
Ion Ratio Lower Upper
164 100
129 90.0 65.5 121.7
131 81.1 59.7 110.9
166 125.9 88.7 164.7



#48
2-Hexanone
Concen: 37.979 ug/L
RT: 10.969 min Scan# 1487
Delta R.T. 0.000 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

Tgt Ion: 43 Resp: 38809
Ion Ratio Lower Upper
43 100
58 50.5 40.2 60.2
57 18.4 14.3 21.5
100 11.9 8.0 12.0





#49

Dibromochloromethane

Concen: 19.346 ug/L

RT: 11.128 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW020777.D

Acq: 05 Nov 2021 13:49

Instrument :

MSVOA_W

ClientSampleId :

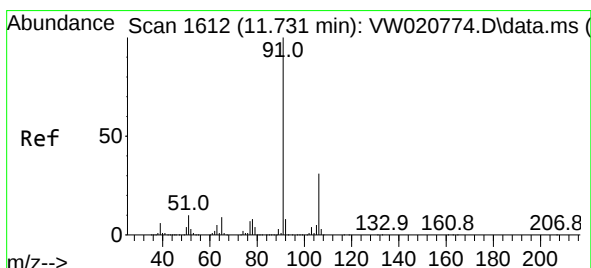
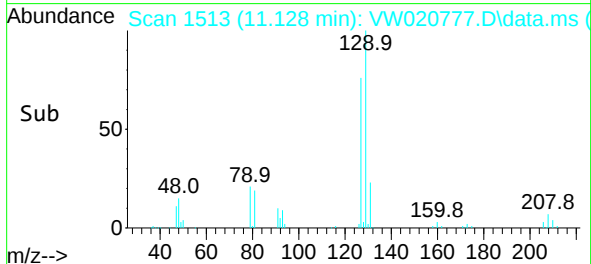
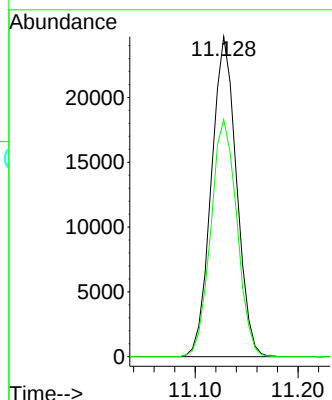
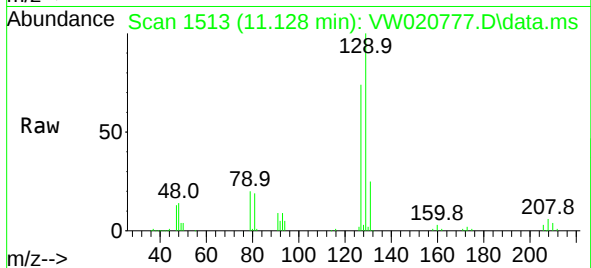
A42A3

Tgt Ion:129 Resp: 41981

Ion Ratio Lower Upper

129 100

127 74.1 55.7 103.5



#52

Ethylbenzene

Concen: 15.723 ug/L

RT: 11.731 min Scan# 1612

Delta R.T. -0.000 min

Lab File: VW020777.D

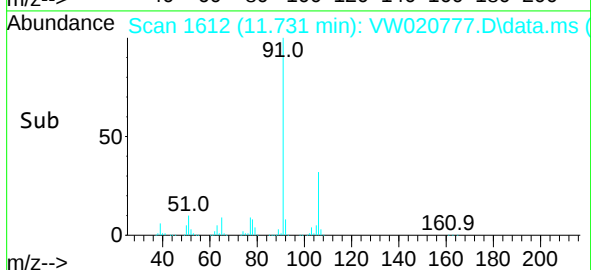
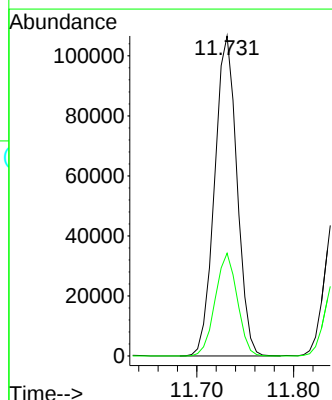
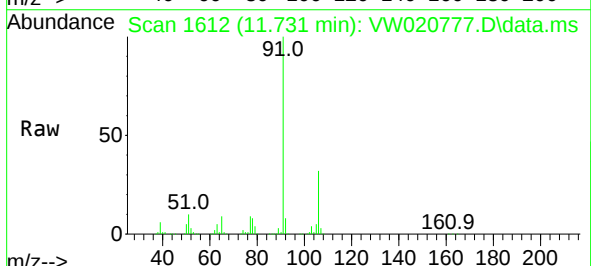
Acq: 05 Nov 2021 13:49

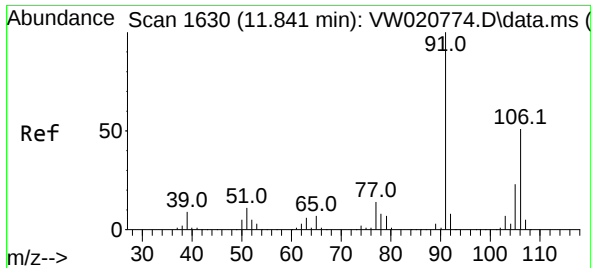
Tgt Ion: 91 Resp: 171323

Ion Ratio Lower Upper

91 100

106 32.1 21.5 39.9

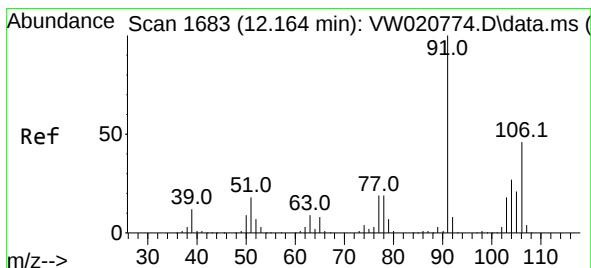
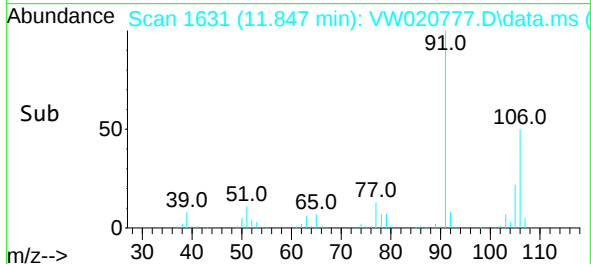
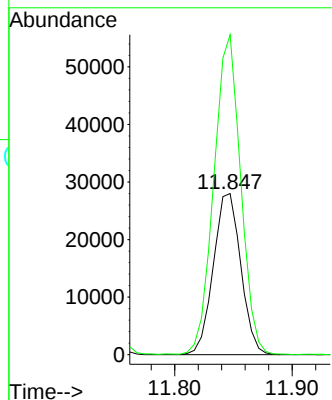
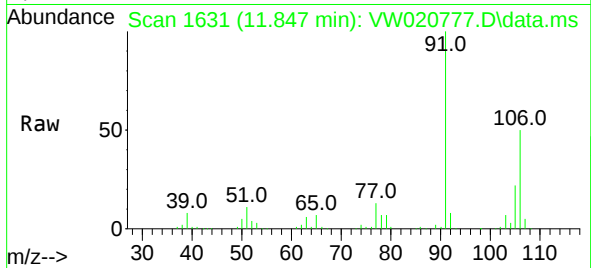




#53
m,p-Xylene
Concen: 10.426 ug/L
RT: 11.847 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

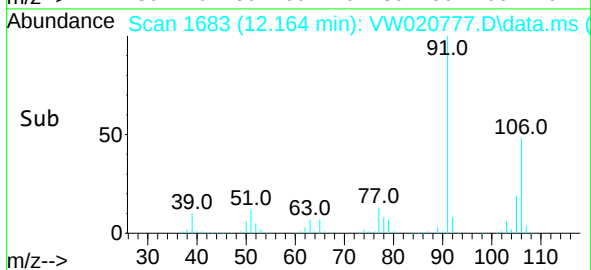
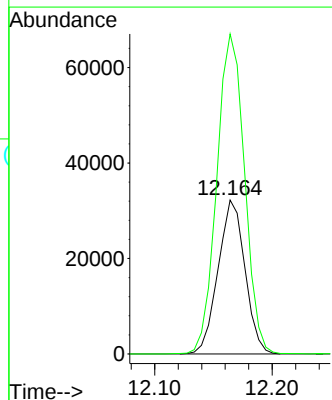
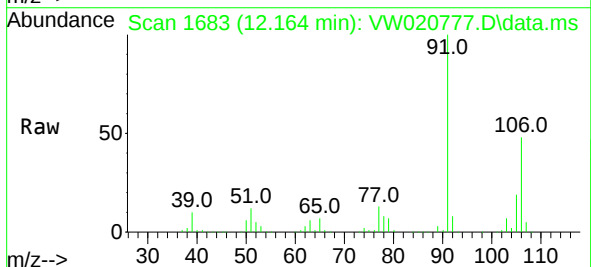
Instrument :
MSVOA_W
ClientSampleId :
A42A3

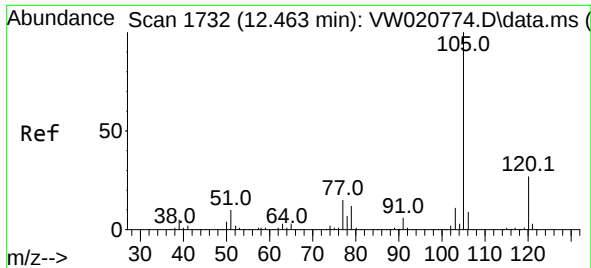
Tgt Ion:106 Resp: 45516
Ion Ratio Lower Upper
106 100
91 198.6 149.9 278.3



#54
o-Xylene
Concen: 12.409 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

Tgt Ion:106 Resp: 51315
Ion Ratio Lower Upper
106 100
91 207.9 153.6 285.3

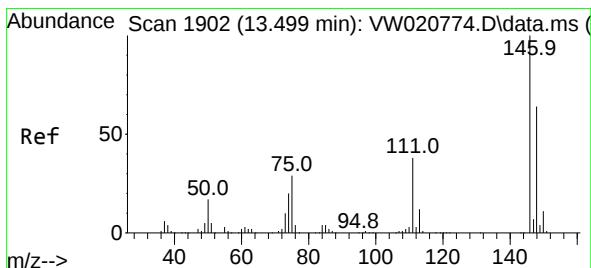
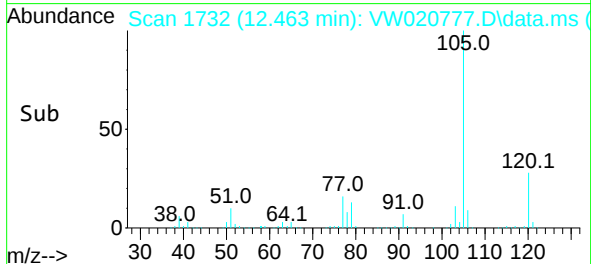
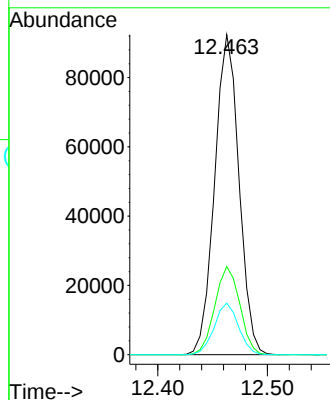
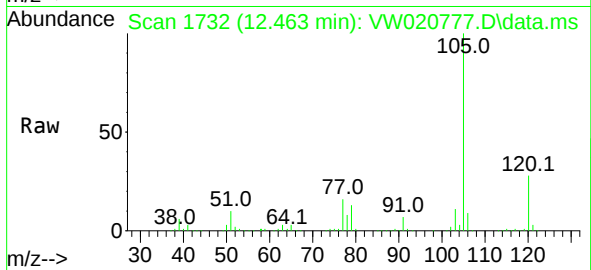




#60
Isopropylbenzene
Concen: 12.543 ug/L
RT: 12.463 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

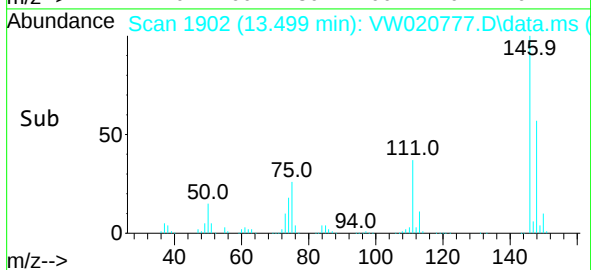
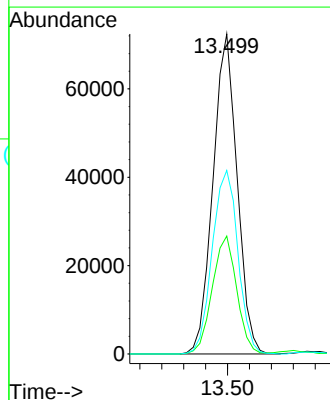
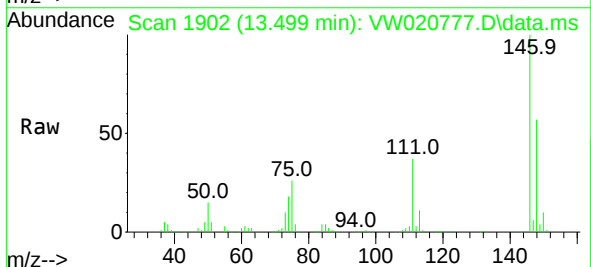
Instrument :
MSVOA_W
ClientSampleId :
A42A3

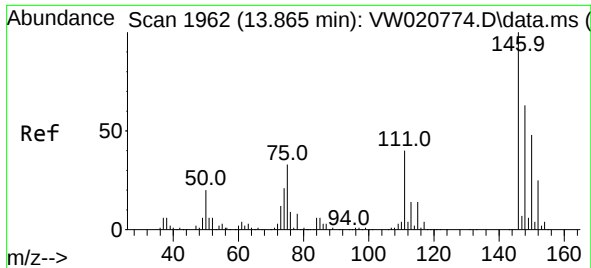
Tgt Ion:105 Resp: 142514
Ion Ratio Lower Upper
105 100
120 28.2 20.1 30.1
77 16.0 13.8 20.8



#64
1,3-Dichlorobenzene
Concen: 21.020 ug/L
RT: 13.499 min Scan# 1902
Delta R.T. -0.000 min
Lab File: VW020777.D
Acq: 05 Nov 2021 13:49

Tgt Ion:146 Resp: 110731
Ion Ratio Lower Upper
146 100
111 36.8 29.8 55.3
148 57.4 46.2 85.8





#67

1,2-Dichlorobenzene

Concen: 10.330 ug/L

RT: 13.865 min Scan# 1962

Delta R.T. -0.006 min

Lab File: VW020777.D

Acq: 05 Nov 2021 13:49

Instrument :

MSVOA_W

ClientSampleId :

A42A3

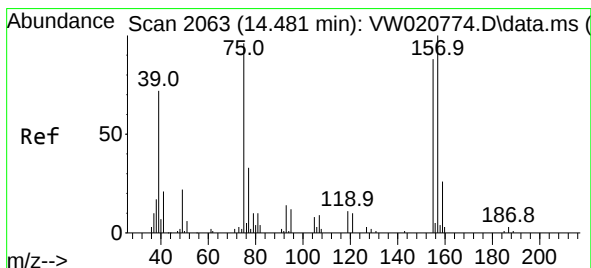
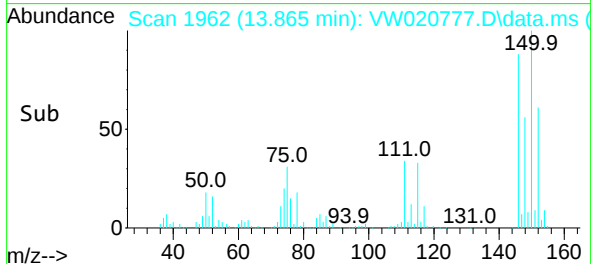
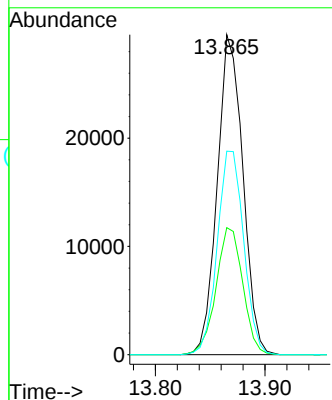
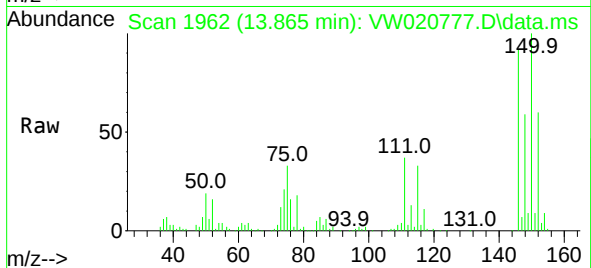
Tgt Ion:146 Resp: 48069

Ion Ratio Lower Upper

146 100

111 39.7 33.1 49.7

148 63.6 47.4 71.2



#68

1,2-Dibromo-3-chloropropane

Concen: 17.654 ug/L

RT: 14.481 min Scan# 2063

Delta R.T. -0.000 min

Lab File: VW020777.D

Acq: 05 Nov 2021 13:49

Tgt Ion: 75 Resp: 5879

Ion Ratio Lower Upper

75 100

155 96.5 54.2 81.2#

157 119.0 69.4 104.2#

