

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063023\
 Data File : VW026491.D
 Acq On : 30 Jun 2023 23:36
 Operator : SY/MD
 Sample : 03444-22
 Misc : 6.30g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 A46Y3

Quant Time: Jul 03 01:12:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM062923SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sat Jul 01 01:41:22 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	889202	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	716922	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	296435	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.369	65	201865	19.938	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	79.760%
7) Chloroethane-d5	2.893	69	197595	23.968	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.880%
11) 1,1-Dichloroethene-d2	4.027	65	86336	17.043	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	68.160%
21) 2-Butanone-d5	7.075	46	180413	47.151	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.300%
24) Chloroform-d	7.654	84	504423	23.273	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.080%
26) 1,2-Dichloroethane-d4	8.307	65	332794	28.092	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	112.360%
32) Benzene-d6	8.276	84	1108049	26.575	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	106.320%
36) 1,2-Dichloropropane-d6	9.270	67	314100	23.636	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	94.560%
41) Toluene-d8	10.325	98	835740	22.691	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.760%
43) trans-1,3-Dichloroprop...	10.575	79	135523	25.300	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	101.200%
47) 2-Hexanone-d5	10.922	63	131642	59.235	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	118.460%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	278207	27.114	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	108.440%
66) 1,2-Dichlorobenzene-d4	13.854	152	185333	17.955	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	71.840%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	2.375	62	4067500	322.671	ug/L	98
8) Chloroethane	2.930	64	39000	5.101	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	4.070	101	812555	79.867	ug/L	97
13) Acetone	4.124	43	37827	13.995	ug/L	89
14) Carbon disulfide	4.393	76	23897	0.742	ug/L #	95
16) Methylene chloride	4.917	84	37336	2.485	ug/L	94
17) trans-1,2-Dichloroethene	5.429	96	30539	2.851	ug/L	99
19) 1,1-Dichloroethane	6.216	63	883054	40.970	ug/L	98
20) cis-1,2-Dichloroethene	7.167	96	2089865	172.249	ug/L	99
27) 1,2-Dichloroethane	8.398	62	71135	4.973	ug/L	98
29) Cyclohexane	7.941	56	16707	0.822	ug/L #	82
30) 1,1,1-Trichloroethane	7.874	97	3932382	257.487	ug/L	99
33) Benzene	8.319	78	117229	2.611	ug/L	100
34) Trichloroethene	9.093	95	37973	3.320	ug/L	97
35) Methylcyclohexane	9.331	83	128241	6.294	ug/L #	78
42) Toluene	10.386	91	1170387	25.481	ug/L	97
45) 1,1,2-Trichloroethane	10.757	97	37226	4.585	ug/L #	20
46) Tetrachloroethene	10.861	164	129392	16.003	ug/L	93
51) Chlorobenzene	11.654	112	124903	4.395	ug/L	95

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 Quant Title : SFAM01.0
 QLast Update : Sat Jul 01 01:41:22 2023
 Response via : Initial Calibration

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

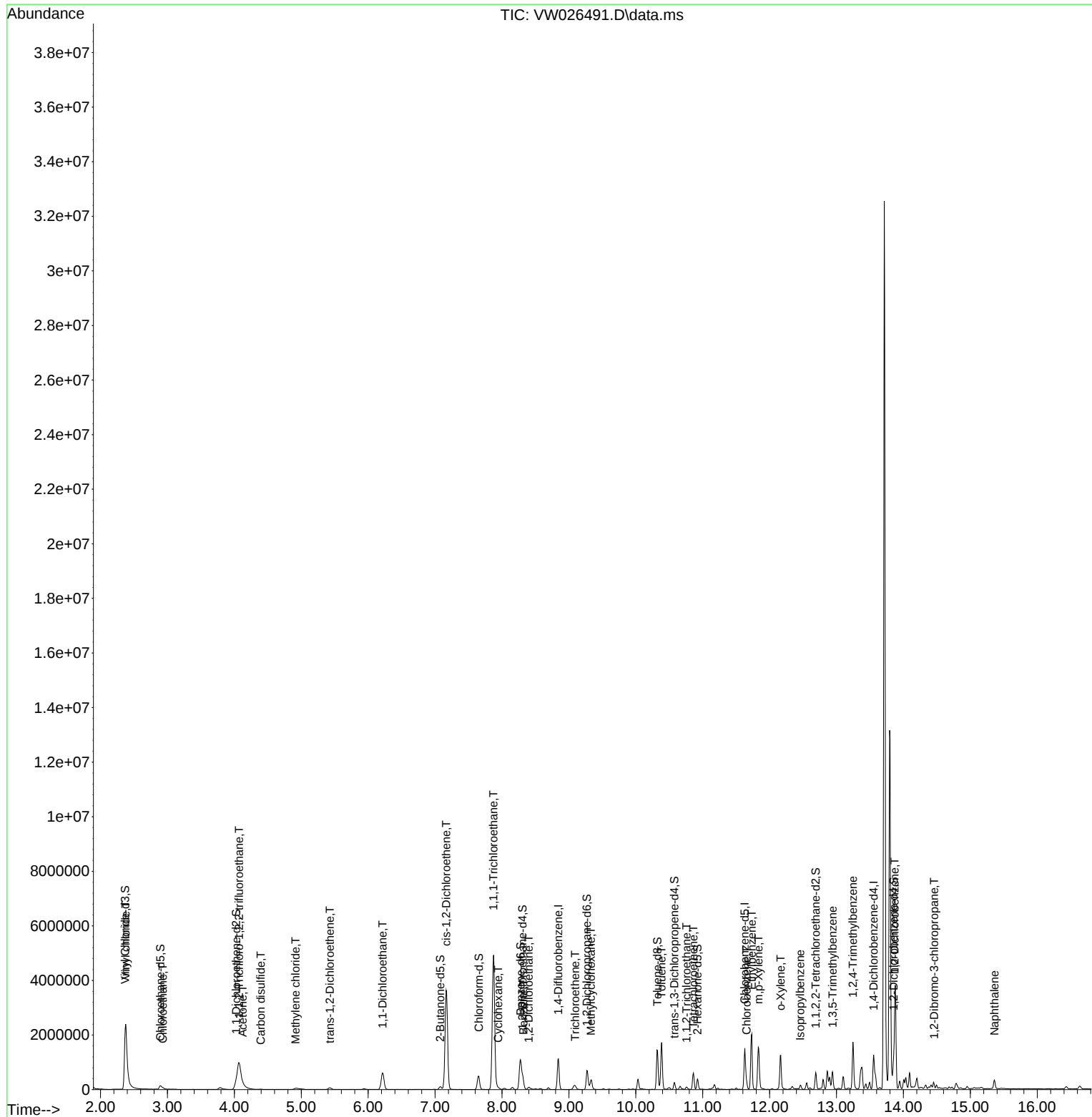
52) Ethylbenzene	11.733	91	1388098	26.856	ug/L	99
53) m,p-Xylene	11.836	106	466668	24.349	ug/L	97
54) o-Xylene	12.166	106	318855	17.938	ug/L	86
60) Isopropylbenzene	12.458	105	91062	2.106	ug/L	98
62) 1,3,5-Trimethylbenzene	12.940	105	324165	9.428	ug/L	99
63) 1,2,4-Trimethylbenzene	13.245	105	892678	26.577	ug/L	99
67) 1,2-Dichlorobenzene	13.867	146	219180	13.351	ug/L	98
68) 1,2-Dibromo-3-chloropr...	14.458	75	1184	0.797	ug/L #	6
71) Naphthalene	15.360	128	262848	12.065	ug/L	99

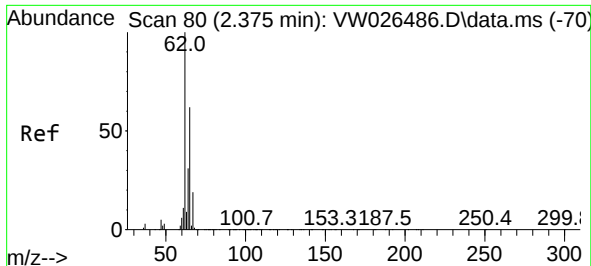
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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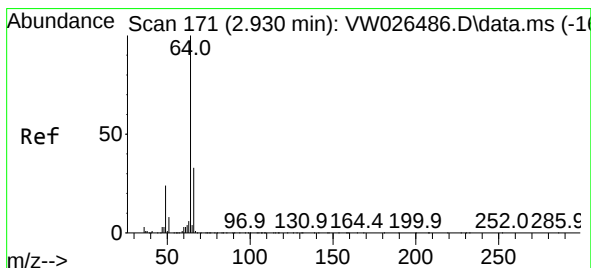
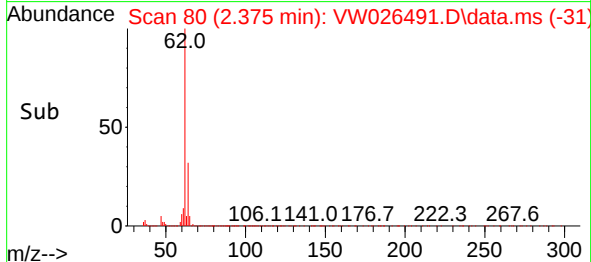
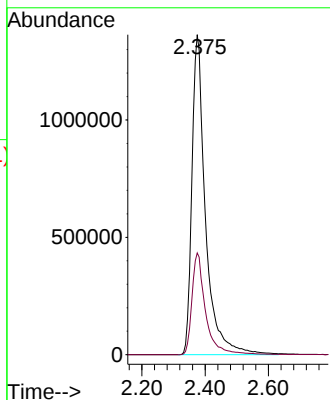
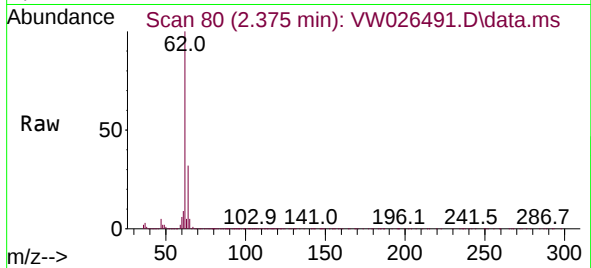




#5
 Vinyl chloride
 Concen: 322.671 ug/L
 RT: 2.375 min Scan# 80
 Delta R.T. -0.000 min
 Lab File: VW026491.D
 Acq: 30 Jun 2023 23:36

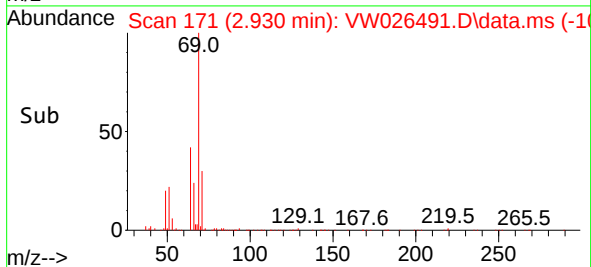
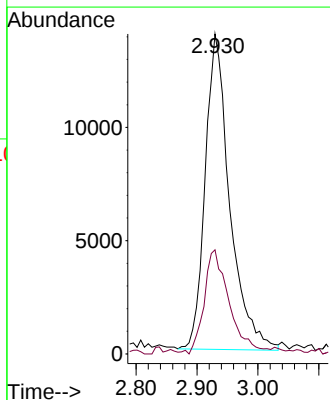
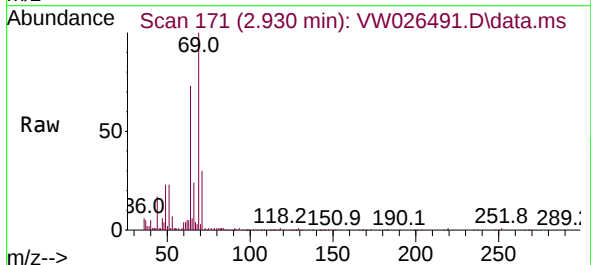
Instrument :
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 ClientSampleId :
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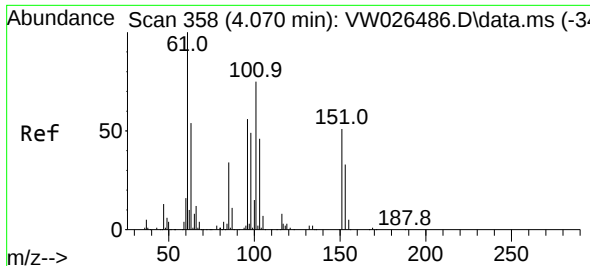
Tgt Ion: 62 Resp: 4067500
 Ion Ratio Lower Upper
 62 100
 64 31.8 23.0 42.8



#8
 Chloroethane
 Concen: 5.101 ug/L
 RT: 2.930 min Scan# 171
 Delta R.T. -0.000 min
 Lab File: VW026491.D
 Acq: 30 Jun 2023 23:36

Tgt Ion: 64 Resp: 39000
 Ion Ratio Lower Upper
 64 100
 66 32.6 22.1 41.1

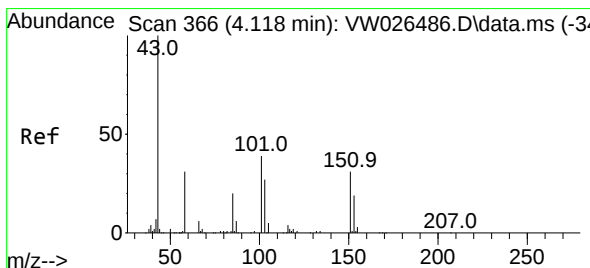
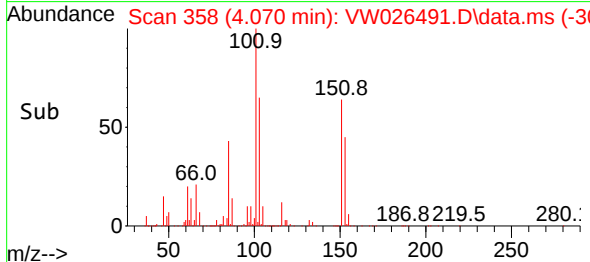
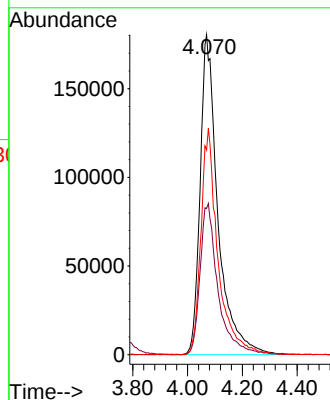
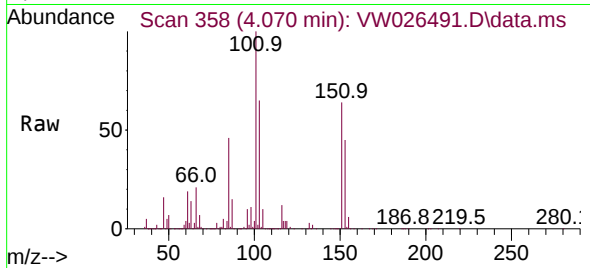




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 79.867 ug/L
RT: 4.070 min Scan# 31
Delta R.T. -0.000 min
Lab File: VW026491.D
Acq: 30 Jun 2023 23:36

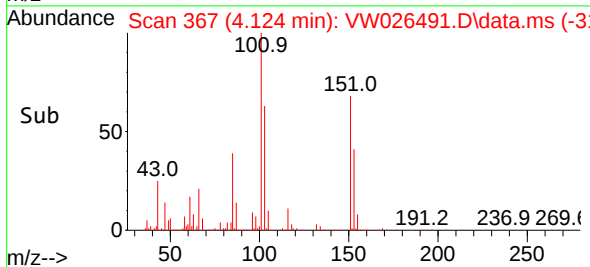
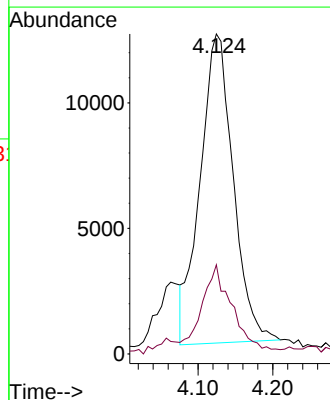
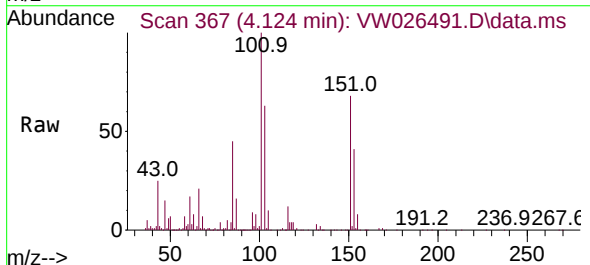
Instrument :
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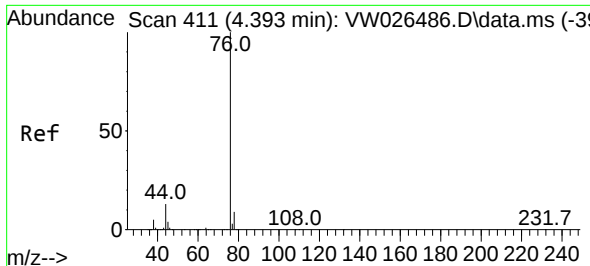
Tgt Ion:101 Resp: 812555
Ion Ratio Lower Upper
101 100
85 46.9 34.1 51.1
151 66.5 53.7 80.5



#13
Acetone
Concen: 13.995 ug/L
RT: 4.124 min Scan# 367
Delta R.T. 0.006 min
Lab File: VW026491.D
Acq: 30 Jun 2023 23:36

Tgt Ion: 43 Resp: 37827
Ion Ratio Lower Upper
43 100
58 25.5 0.0 63.2

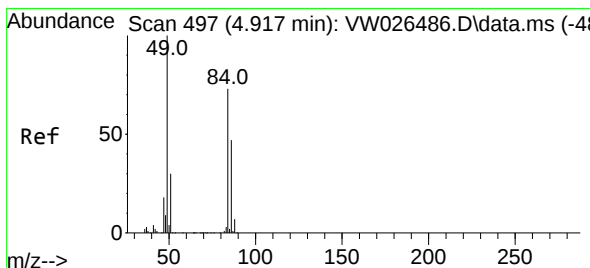
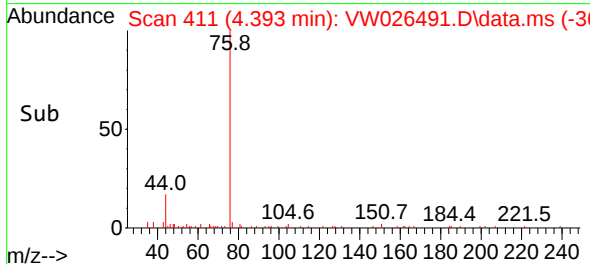
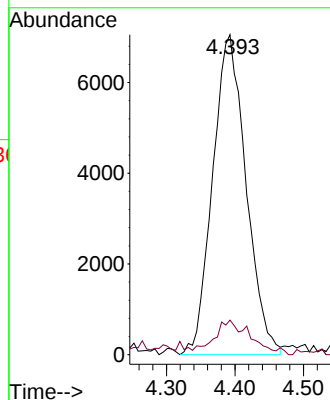
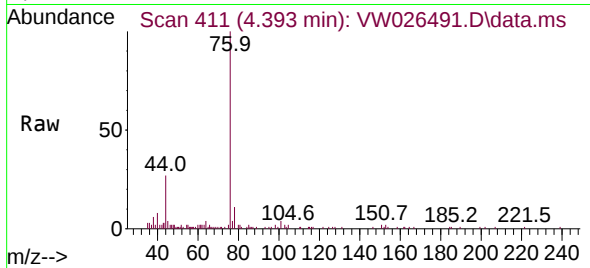




#14
Carbon disulfide
Concen: 0.742 ug/L
RT: 4.393 min Scan# 411
Delta R.T. -0.000 min
Lab File: VW026491.D
Acq: 30 Jun 2023 23:36

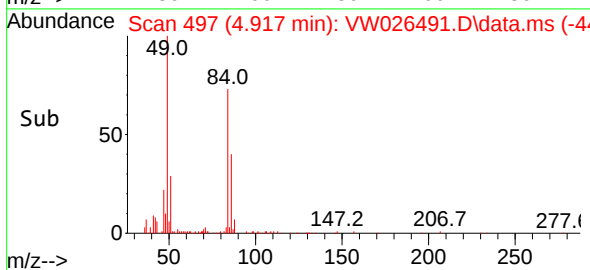
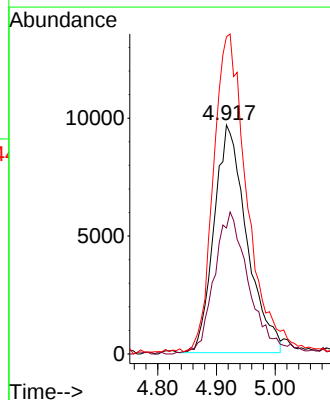
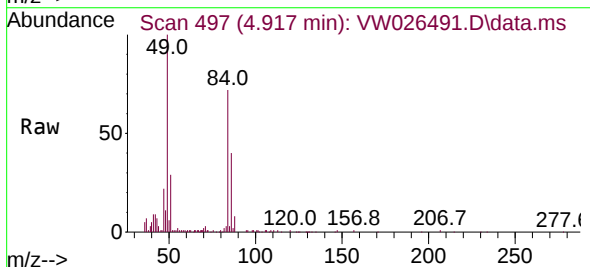
Instrument :
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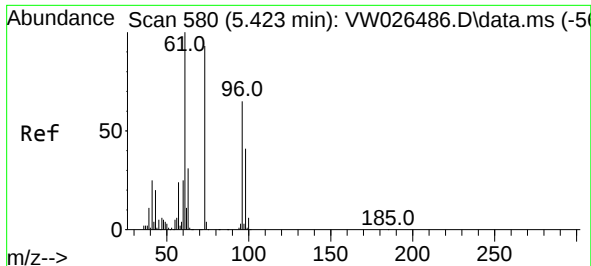
Tgt Ion: 76 Resp: 23897
Ion Ratio Lower Upper
76 100
78 10.8 7.1 10.7#



#16
Methylene chloride
Concen: 2.485 ug/L
RT: 4.917 min Scan# 497
Delta R.T. -0.000 min
Lab File: VW026491.D
Acq: 30 Jun 2023 23:36

Tgt Ion: 84 Resp: 37336
Ion Ratio Lower Upper
84 100
86 55.0 44.1 81.9
49 138.5 94.1 174.8

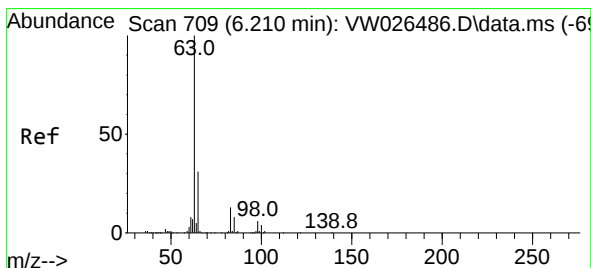
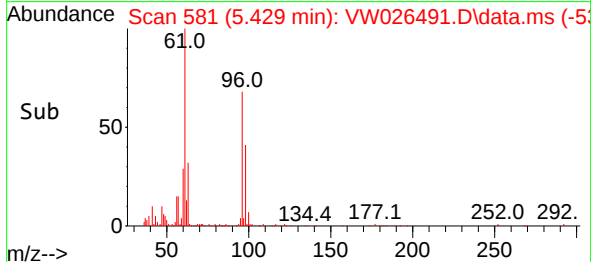
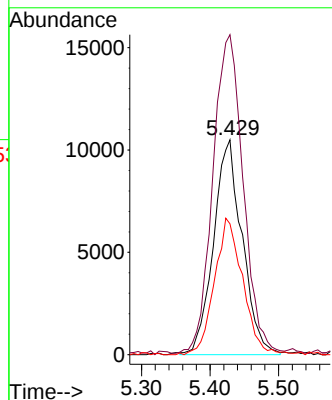
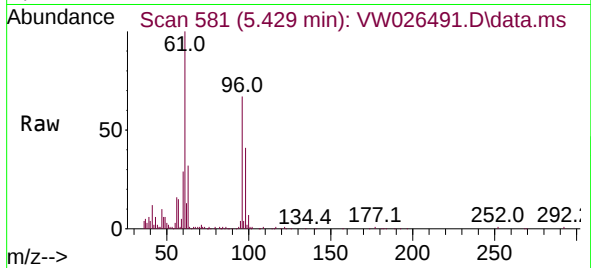




#17
trans-1,2-Dichloroethene
Concen: 2.851 ug/L
RT: 5.429 min Scan# 580
Delta R.T. 0.006 min
Lab File: VW026491.D
Acq: 30 Jun 2023 23:36

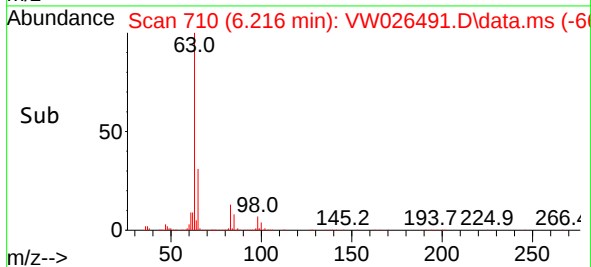
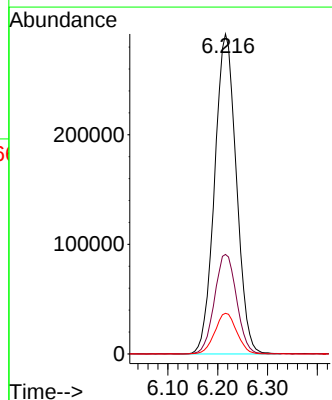
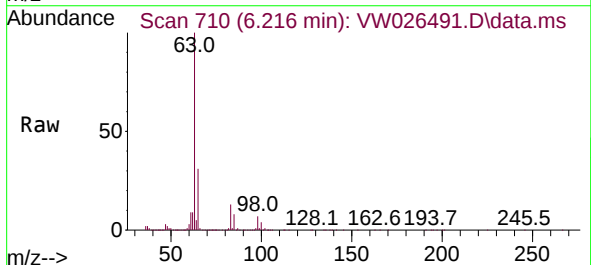
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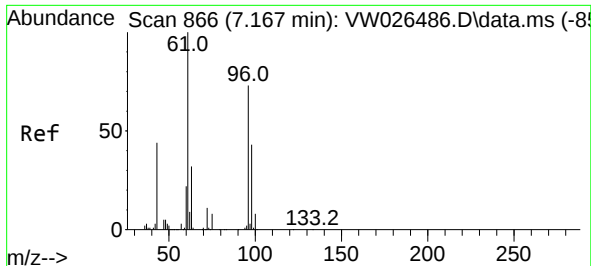
Tgt Ion: 96 Resp: 30539
Ion Ratio Lower Upper
96 100
61 148.9 105.2 195.4
98 60.9 43.2 80.2



#19
1,1-Dichloroethane
Concen: 40.970 ug/L
RT: 6.216 min Scan# 710
Delta R.T. 0.006 min
Lab File: VW026491.D
Acq: 30 Jun 2023 23:36

Tgt Ion: 63 Resp: 883054
Ion Ratio Lower Upper
63 100
65 31.1 22.3 41.5
83 12.7 8.3 15.3



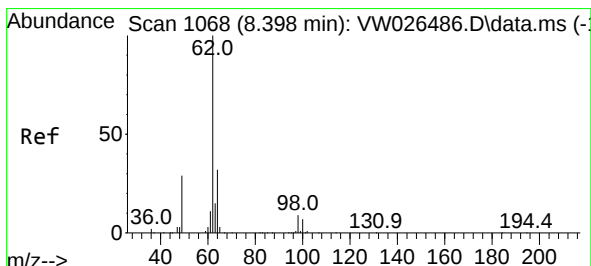
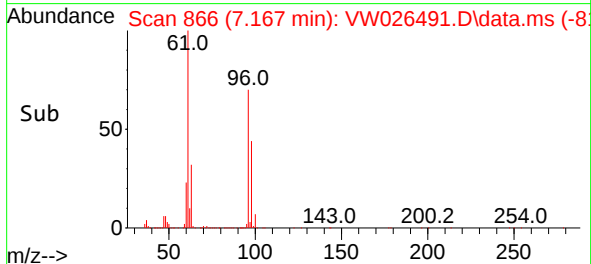
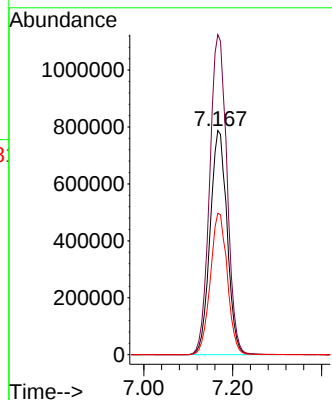
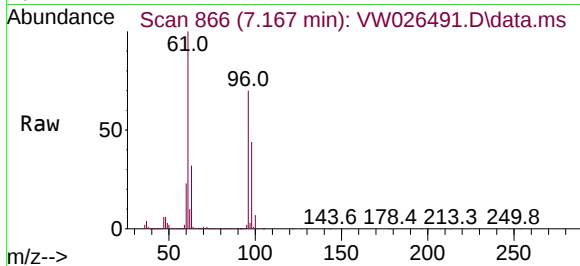


#20
cis-1,2-Dichloroethene
Concen: 172.249 ug/L
RT: 7.167 min Scan# 866
Delta R.T. -0.000 min
Lab File: VW026491.D
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Tgt Ion: 96 Resp: 2089865

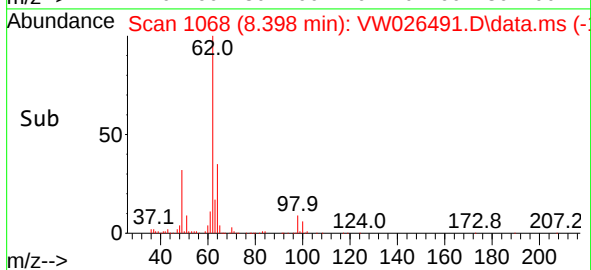
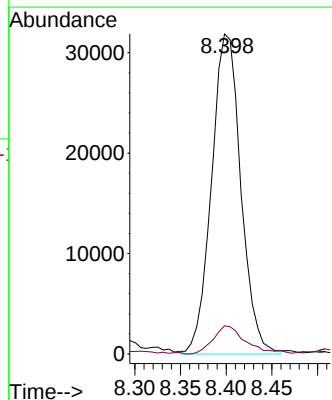
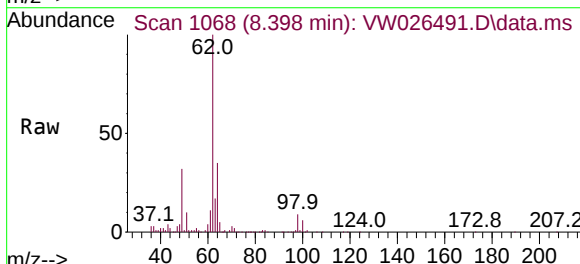
Ion	Ratio	Lower	Upper
96	100		
61	142.8	99.3	184.5
98	63.1	44.3	82.3

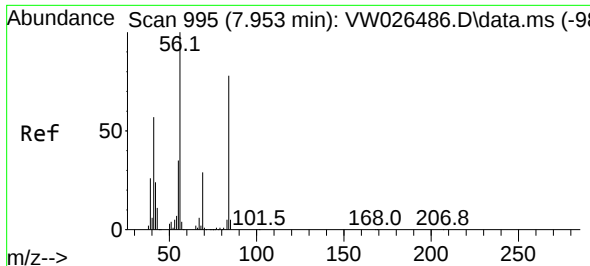


#27
1,2-Dichloroethane
Concen: 4.973 ug/L
RT: 8.398 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VW026491.D
Acq: 30 Jun 2023 23:36

Tgt Ion: 62 Resp: 71135

Ion	Ratio	Lower	Upper
62	100		
98	8.8	7.6	11.4

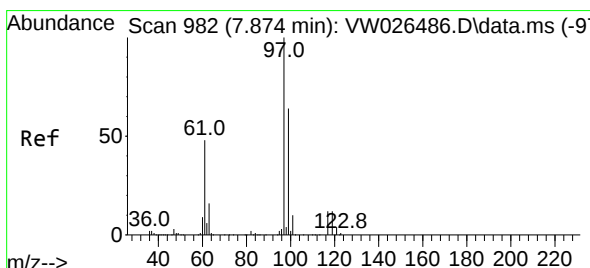
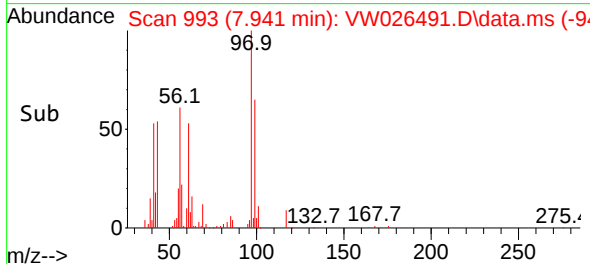
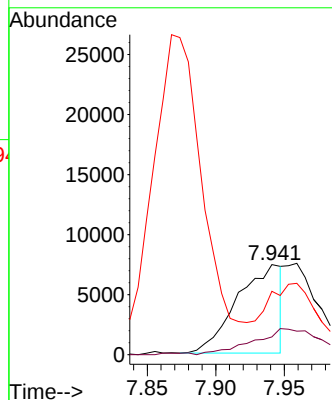
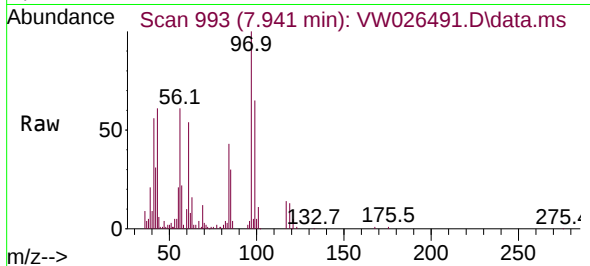




#29
Cyclohexane
Concen: 0.822 ug/L
RT: 7.941 min Scan# 995
Delta R.T. -0.012 min
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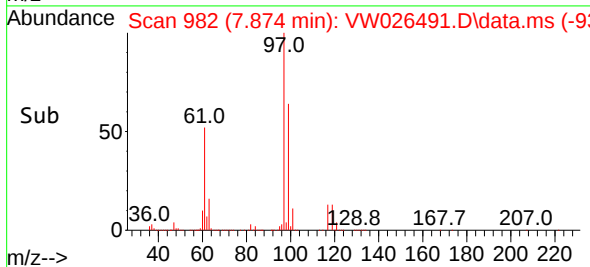
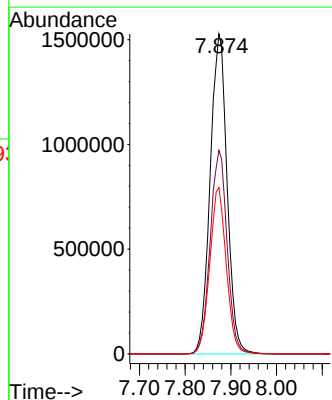
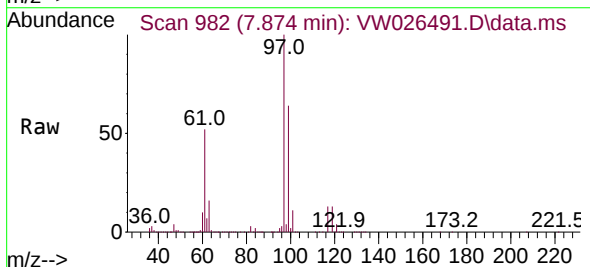
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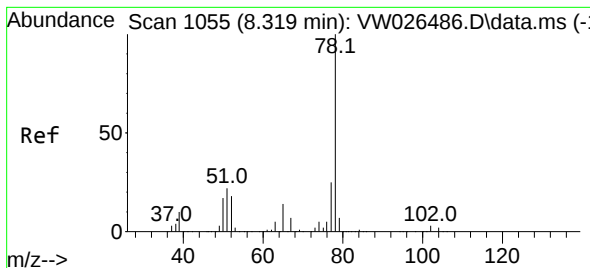
Tgt Ion: 56 Resp: 16707
Ion Ratio Lower Upper
56 100
69 43.1 23.2 34.8#
84 92.3 63.5 95.3



#30
1,1,1-Trichloroethane
Concen: 257.487 ug/L
RT: 7.874 min Scan# 982
Delta R.T. -0.000 min
Lab File: VW026491.D
Acq: 30 Jun 2023 23:36

Tgt Ion: 97 Resp: 3932382
Ion Ratio Lower Upper
97 100
99 63.8 51.3 76.9
61 50.7 39.5 59.3





#33

Benzene

Concen: 2.611 ug/L

RT: 8.319 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VW026491.D

Acq: 30 Jun 2023 23:36

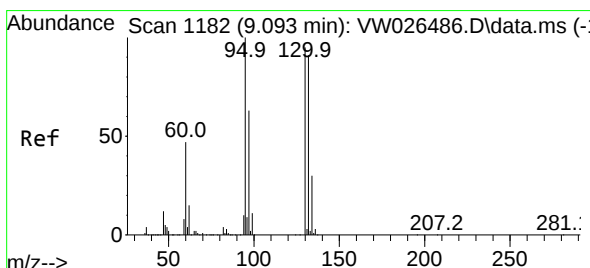
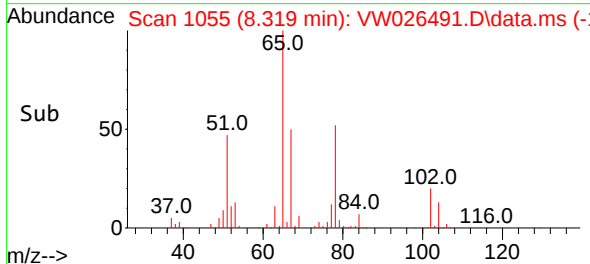
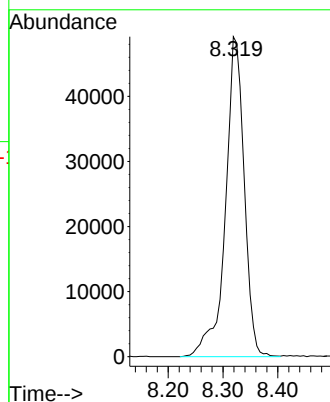
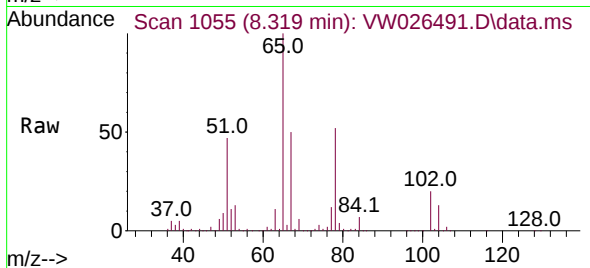
Instrument :

MSVOA_W

ClientSampleId :

A46Y3

Tgt Ion: 78 Resp: 117229



#34

Trichloroethene

Concen: 3.320 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. -0.000 min

Lab File: VW026491.D

Acq: 30 Jun 2023 23:36

Tgt Ion: 95 Resp: 37973

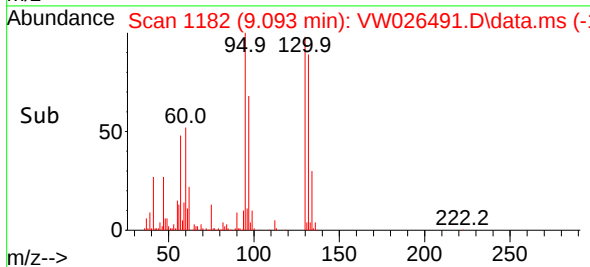
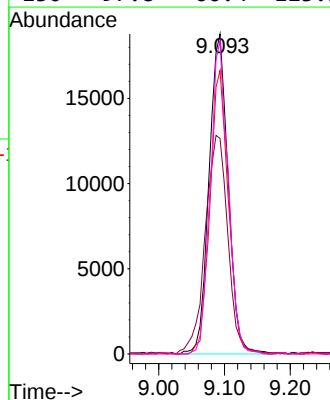
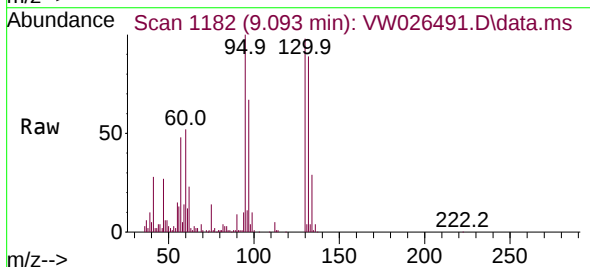
Ion Ratio Lower Upper

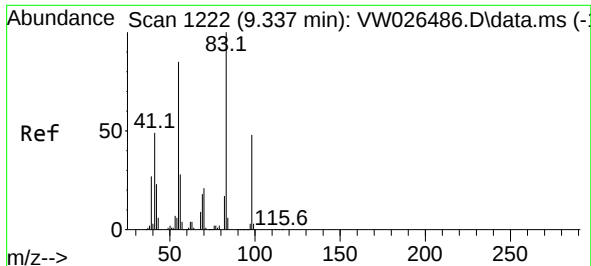
95 100

97 67.4 44.1 81.9

132 88.6 61.8 114.8

130 97.8 66.4 123.2

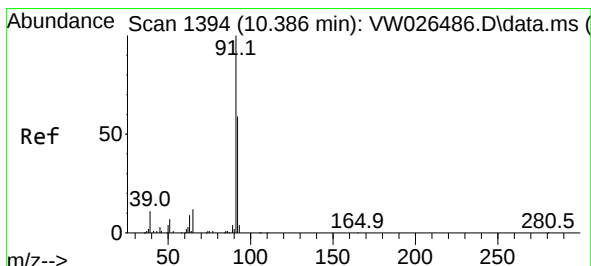
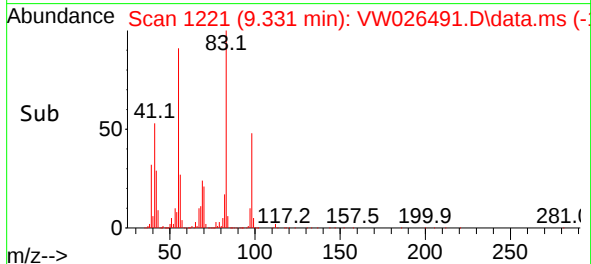
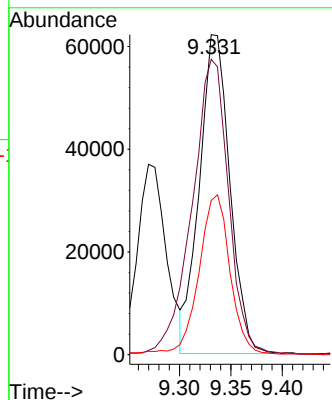
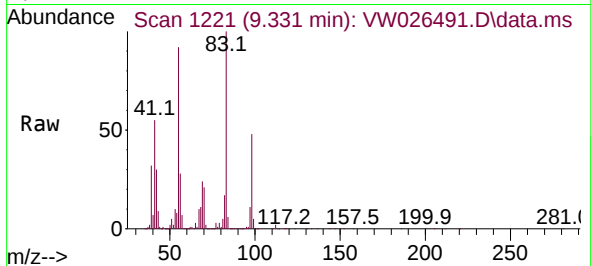




#35
Methylcyclohexane
Concen: 6.294 ug/L
RT: 9.331 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW026491.D
Acq: 30 Jun 2023 23:36

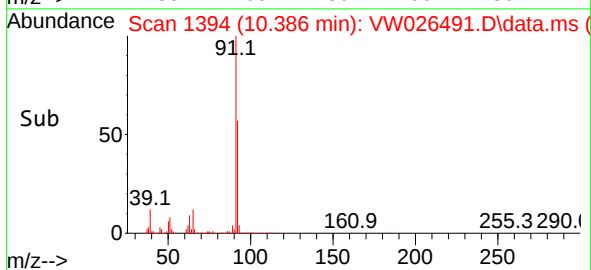
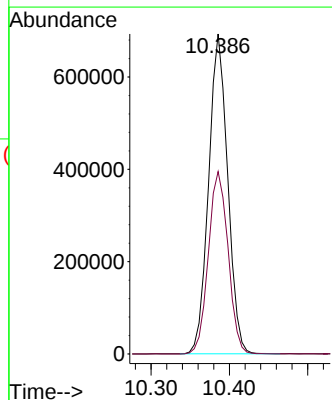
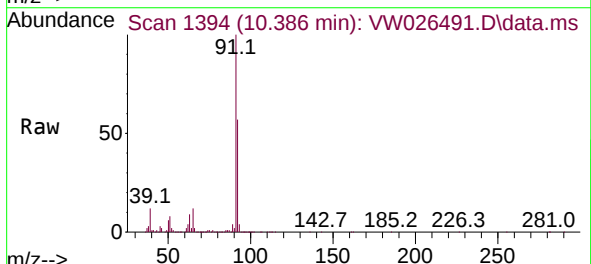
Instrument :
MSVOA_W
ClientSampleId :
A46Y3

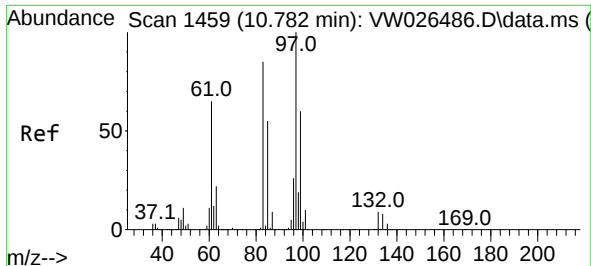
Tgt Ion: 83 Resp: 128241
Ion Ratio Lower Upper
83 100
55 110.5 66.5 99.7#
98 50.9 37.0 55.6



#42
Toluene
Concen: 25.481 ug/L
RT: 10.386 min Scan# 1394
Delta R.T. -0.000 min
Lab File: VW026491.D
Acq: 30 Jun 2023 23:36

Tgt Ion: 91 Resp: 1170387
Ion Ratio Lower Upper
91 100
92 57.0 41.4 76.8

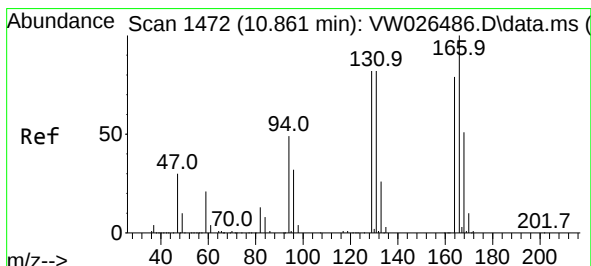
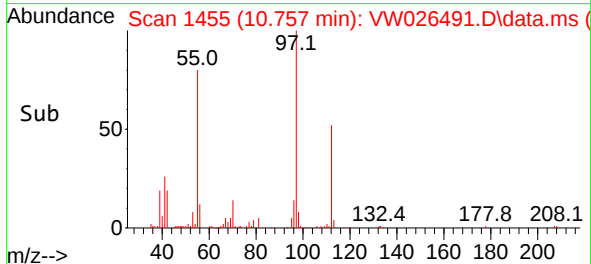
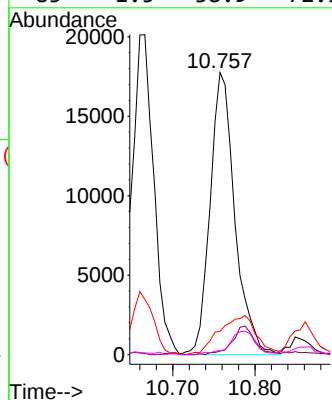
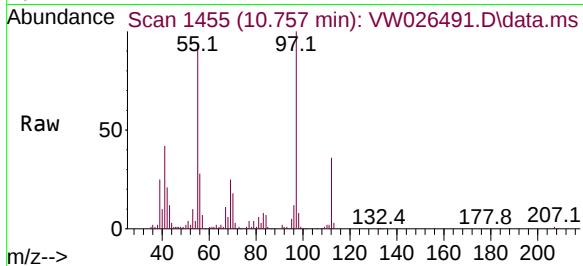




#45
1,1,2-Trichloroethane
Concen: 4.585 ug/L
RT: 10.757 min Scan# 1455
Delta R.T. -0.025 min
Lab File: VW026491.D
Acq: 30 Jun 2023 23:36

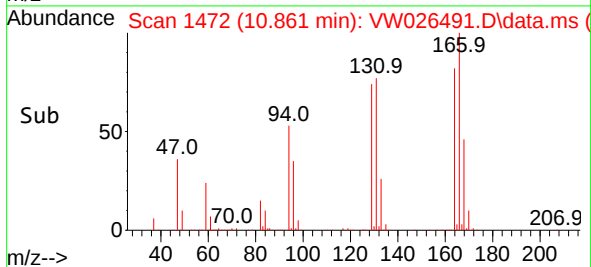
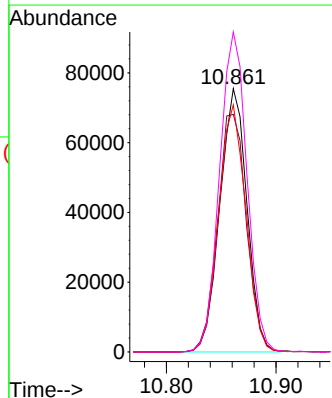
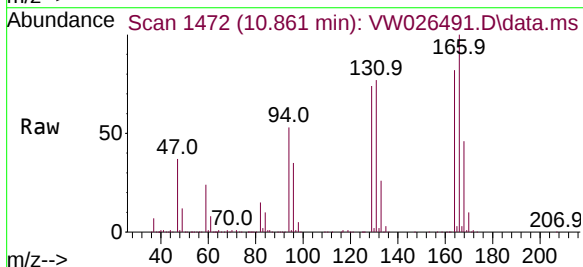
Instrument :
MSVOA_W
ClientSampleId :
A46Y3

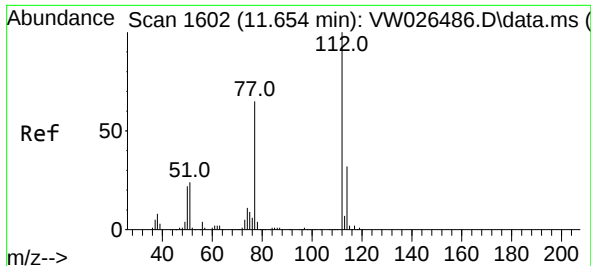
Tgt Ion: 97	Resp: 37226
Ion Ratio	Lower Upper
97 100	
99 1.2	42.1 78.3#
83 8.3	60.5 112.5#
85 1.5	38.9 72.3#



#46
Tetrachloroethene
Concen: 16.003 ug/L
RT: 10.861 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VW026491.D
Acq: 30 Jun 2023 23:36

Tgt Ion: 164	Resp: 129392
Ion Ratio	Lower Upper
164 100	
129 90.2	69.0 128.2
131 93.8	62.6 116.3
166 121.5	90.6 168.3

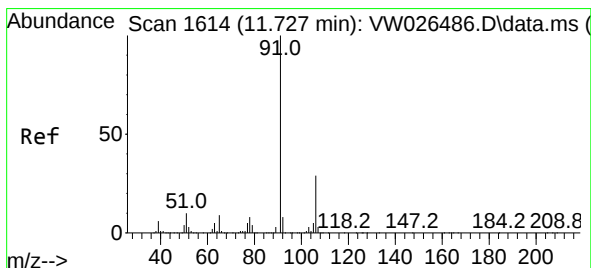
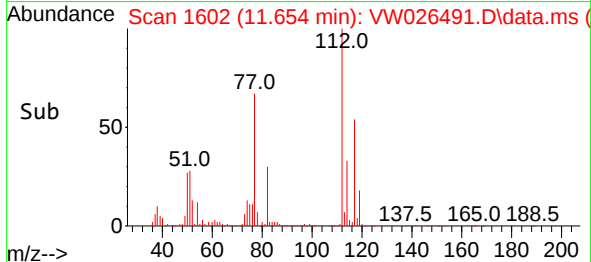
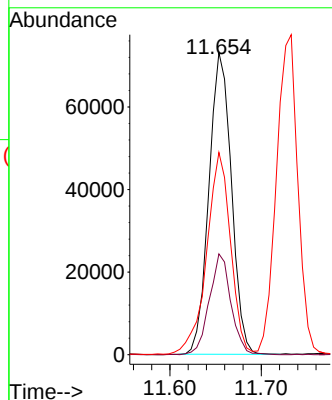
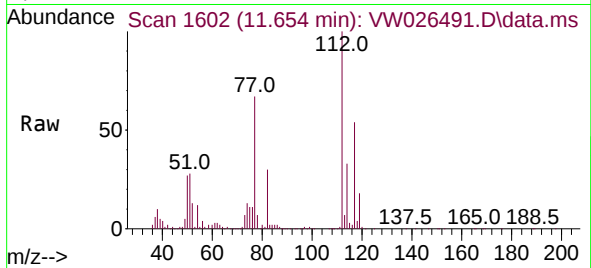




#51
Chlorobenzene
Concen: 4.395 ug/L
RT: 11.654 min Scan# 1602
Delta R.T. -0.000 min
Lab File: VW026491.D
Acq: 30 Jun 2023 23:36

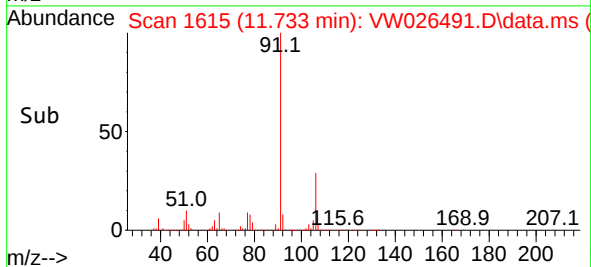
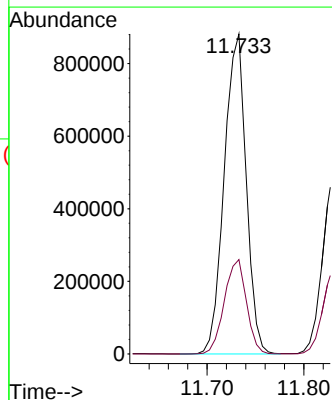
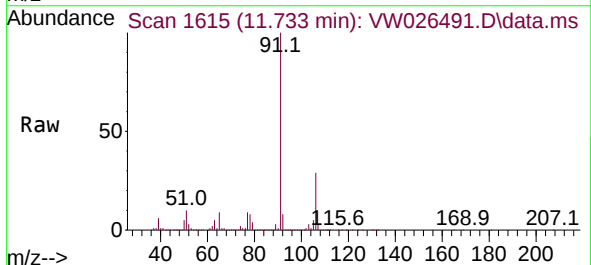
Instrument :
MSVOA_W
ClientSampleId :
A46Y3

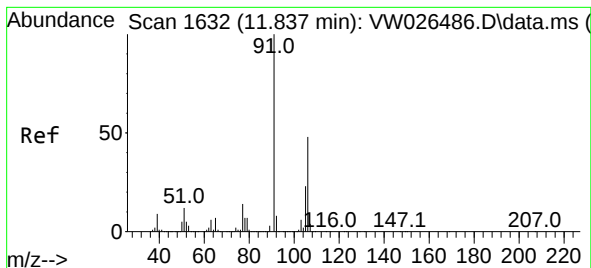
Tgt Ion:112 Resp: 124903
Ion Ratio Lower Upper
112 100
114 33.3 22.3 41.5
77 66.9 49.6 74.4



#52
Ethylbenzene
Concen: 26.856 ug/L
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW026491.D
Acq: 30 Jun 2023 23:36

Tgt Ion: 91 Resp: 1388098
Ion Ratio Lower Upper
91 100
106 29.5 20.9 38.7

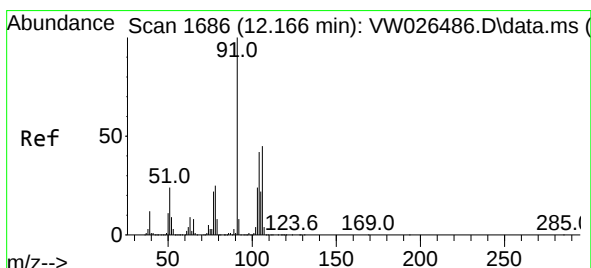
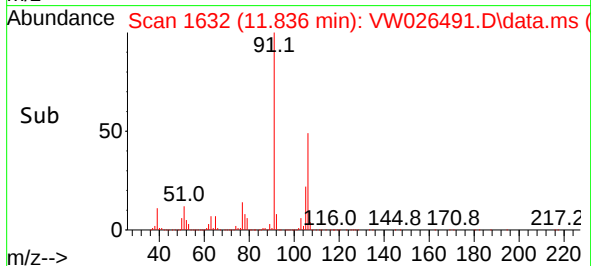
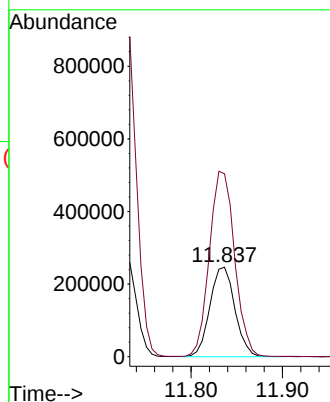
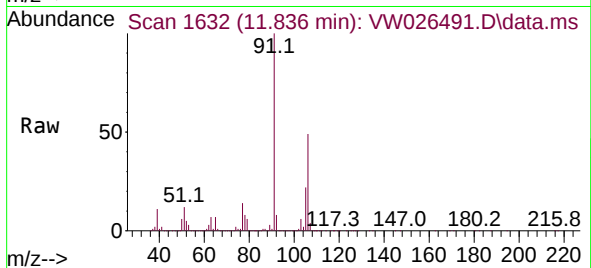




#53
m,p-Xylene
Concen: 24.349 ug/L
RT: 11.836 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW026491.D
Acq: 30 Jun 2023 23:36

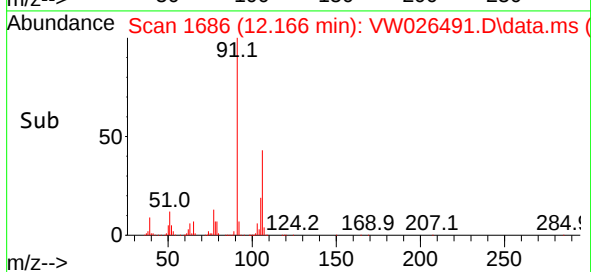
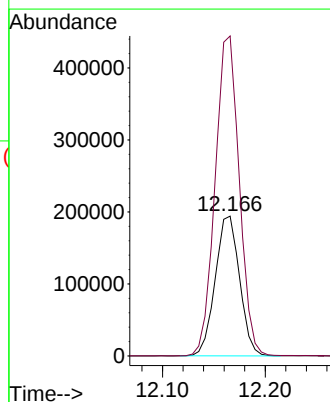
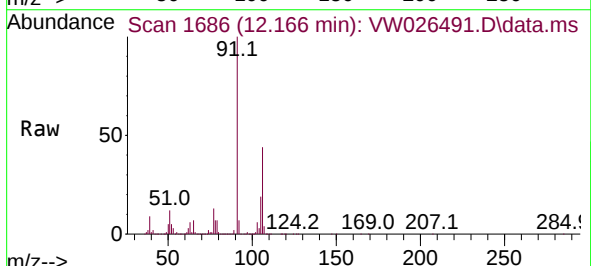
Instrument :
MSVOA_W
ClientSampleId :
A46Y3

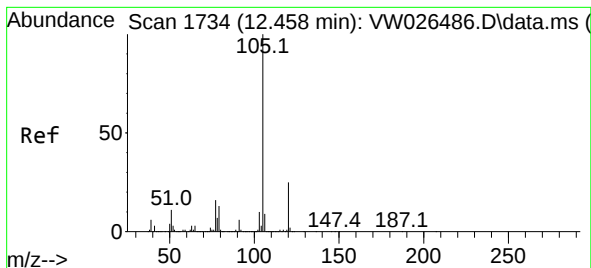
Tgt Ion:106 Resp: 466668
Ion Ratio Lower Upper
106 100
91 204.5 146.7 272.5



#54
o-Xylene
Concen: 17.938 ug/L
RT: 12.166 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VW026491.D
Acq: 30 Jun 2023 23:36

Tgt Ion:106 Resp: 318855
Ion Ratio Lower Upper
106 100
91 228.8 145.5 270.1





#60

Isopropylbenzene

Concen: 2.106 ug/L

RT: 12.458 min Scan# 11

Delta R.T. -0.000 min

Lab File: VW026491.D

Acq: 30 Jun 2023 23:36

Instrument :

MSVOA_W

ClientSampleId :

A46Y3

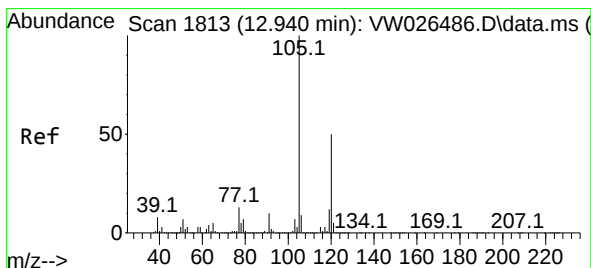
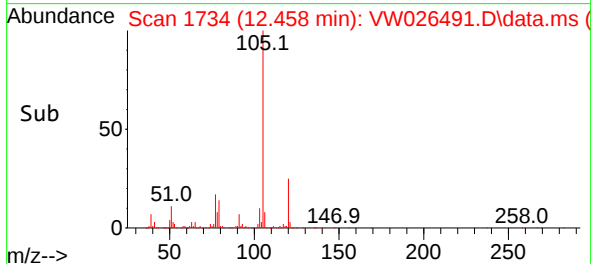
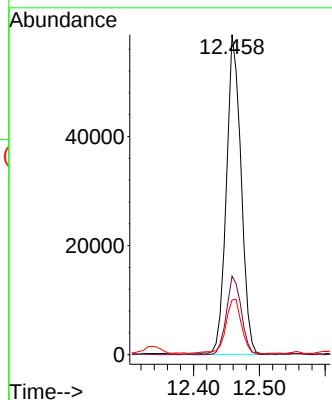
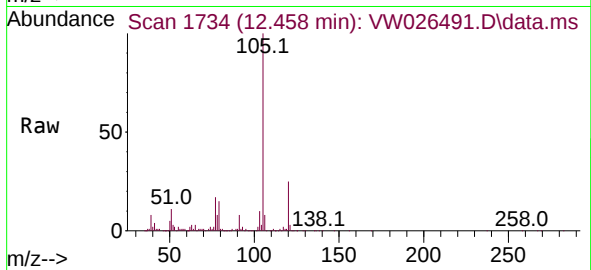
Tgt Ion:105 Resp: 91062

Ion Ratio Lower Upper

105 100

120 24.9 20.5 30.7

77 17.9 12.9 19.3



#62

1,3,5-Trimethylbenzene

Concen: 9.428 ug/L

RT: 12.940 min Scan# 1813

Delta R.T. -0.000 min

Lab File: VW026491.D

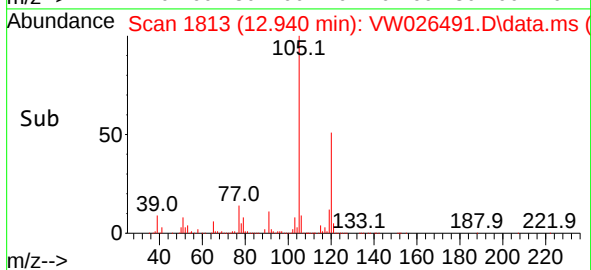
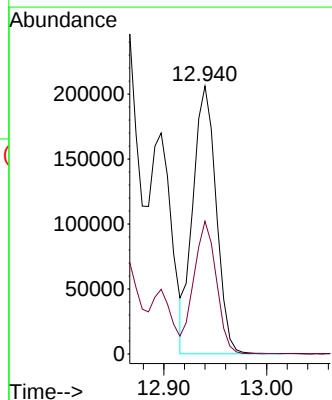
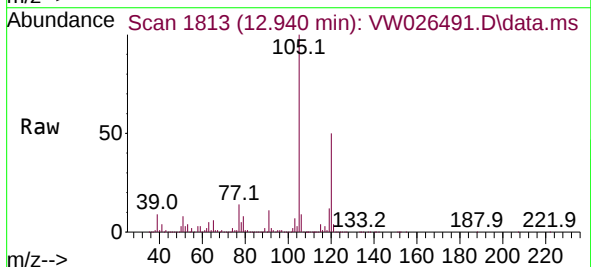
Acq: 30 Jun 2023 23:36

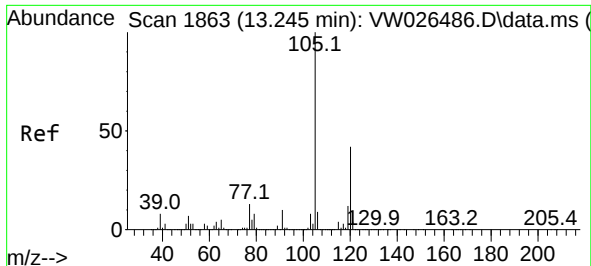
Tgt Ion:105 Resp: 324165

Ion Ratio Lower Upper

105 100

120 48.1 39.2 58.8

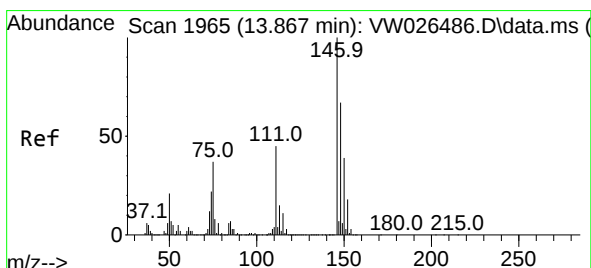
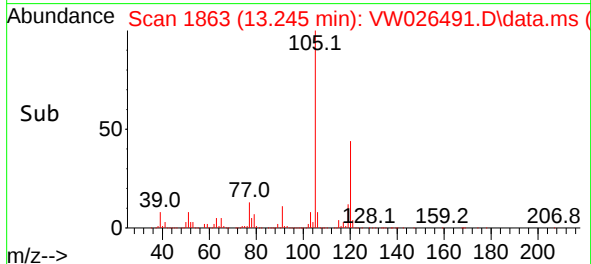
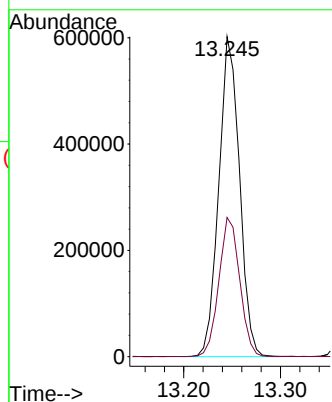
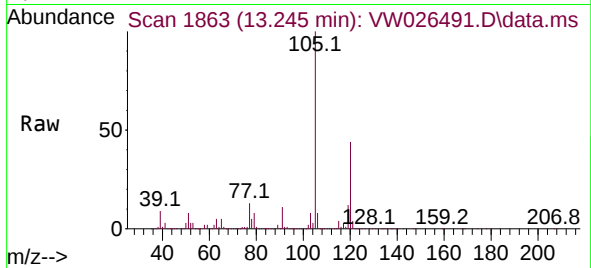




#63
1,2,4-Trimethylbenzene
Concen: 26.577 ug/L
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW026491.D
Acq: 30 Jun 2023 23:36

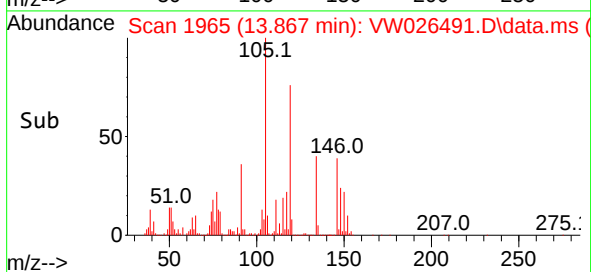
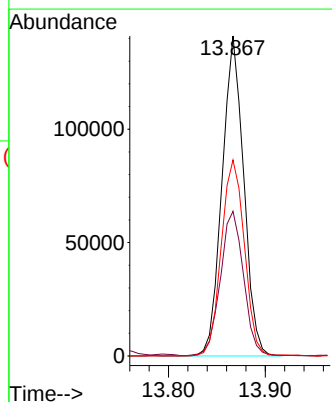
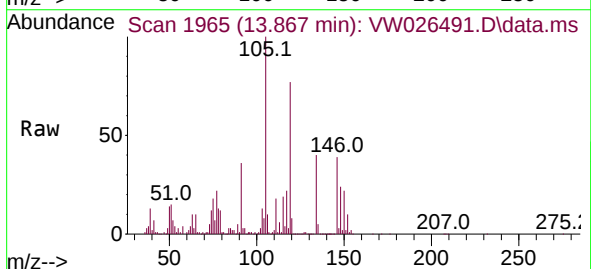
Instrument :
MSVOA_W
ClientSampleId :
A46Y3

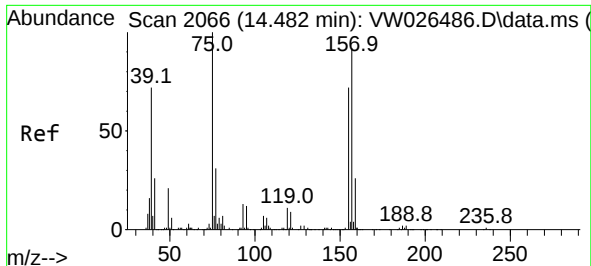
Tgt Ion:105 Resp: 892678
Ion Ratio Lower Upper
105 100
120 44.0 36.0 54.0



#67
1,2-Dichlorobenzene
Concen: 13.351 ug/L
RT: 13.867 min Scan# 1965
Delta R.T. -0.000 min
Lab File: VW026491.D
Acq: 30 Jun 2023 23:36

Tgt Ion:146 Resp: 219180
Ion Ratio Lower Upper
146 100
111 45.2 34.7 52.1
148 61.3 49.6 74.4





#68

1,2-Dibromo-3-chloropropane

Concen: 0.797 ug/L

RT: 14.458 min Scan# 2062

Delta R.T. -0.025 min

Lab File: VW026491.D

Acq: 30 Jun 2023 23:36

Instrument :

MSVOA_W

ClientSampleId :

A46Y3

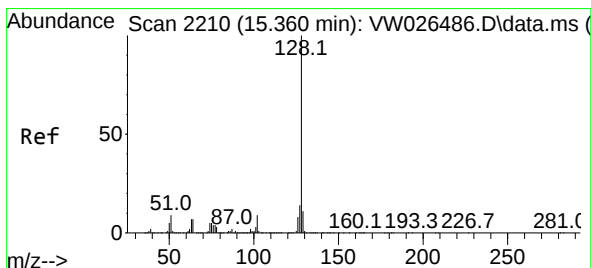
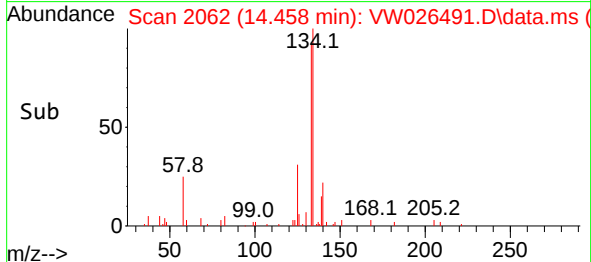
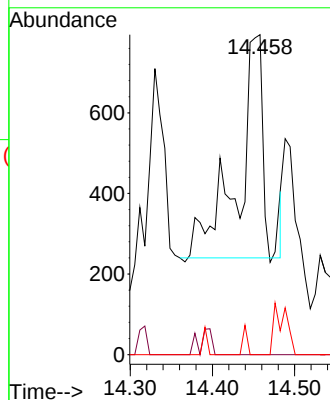
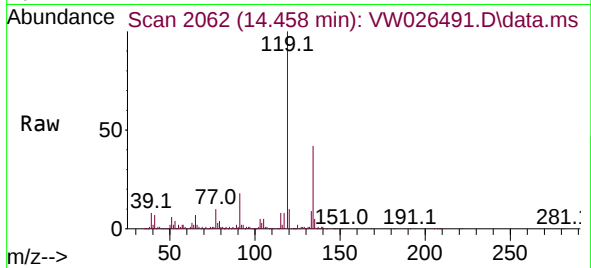
Tgt Ion: 75 Resp: 1184

Ion Ratio Lower Upper

75 100

155 0.0 58.5 87.7#

157 0.0 77.4 116.2#



#71

Naphthalene

Concen: 12.065 ug/L

RT: 15.360 min Scan# 2210

Delta R.T. -0.000 min

Lab File: VW026491.D

Acq: 30 Jun 2023 23:36

Tgt Ion: 128 Resp: 262848

Ion Ratio Lower Upper

128 100

127 13.3 10.4 15.6

129 10.8 8.3 12.5

