

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW083123\
 Data File : VW026979.D
 Acq On : 31 Aug 2023 15:48
 Operator : SY/MD
 Sample : 04235-10RE
 Misc : 6.14g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 01 00:49:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM081023SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Sep 01 00:44:05 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	1123050	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	690212	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	195184	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	184740	10.007	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	40.040%
7) Chloroethane-d5	2.893	69	208064	15.156	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	60.640%
11) 1,1-Dichloroethene-d2	4.021	65	80510	8.867	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	35.480%#
21) 2-Butanone-d5	7.075	46	221174	41.682	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	83.360%
24) Chloroform-d	7.648	84	522254	13.856	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	55.440%
26) 1,2-Dichloroethane-d4	8.307	65	292700	14.072	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	56.280%#
32) Benzene-d6	8.276	84	991133	20.836	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	83.360%
36) 1,2-Dichloropropane-d6	9.270	67	347397	23.445	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	93.800%
41) Toluene-d8	10.319	98	833655	20.416	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	81.680%
43) trans-1,3-Dichloroprop...	10.581	79	94068	15.376	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	61.520%
47) 2-Hexanone-d5	10.922	63	125335	80.500	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	161.000%#
56) 1,1,2,2-Tetrachloroeth...	12.690	84	248435	21.231	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	84.920%
66) 1,2-Dichlorobenzene-d4	13.848	152	139469	19.964	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	79.840%
Target Compounds						
					Qvalue	
13) Acetone	4.125	43	56963	10.797	ug/L	91
14) Carbon disulfide	4.387	76	172815	2.894	ug/L	97
16) Methylene chloride	4.923	84	56286	2.591	ug/L	88
20) cis-1,2-Dichloroethene	7.173	96	15844	0.796	ug/L	89
29) Cyclohexane	7.953	56	136019	6.372	ug/L #	87
33) Benzene	8.325	78	676266	13.455	ug/L	100
35) Methylcyclohexane	9.337	83	845085	38.589	ug/L	98
38) Bromodichloromethane	9.611	83	12762	0.790	ug/L #	82
42) Toluene	10.386	91	2200459	43.277	ug/L	98
45) 1,1,2-Trichloroethane	10.764	97	334428	35.518	ug/L #	22
48) 2-Hexanone	10.934	43	670107	109.968	ug/L #	24
52) Ethylbenzene	11.727	91	9312132	163.317	ug/L	95
55) Styrene	12.166	104	576783	16.827	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.690	83	39905	3.346	ug/L #	97
60) Isopropylbenzene	12.465	105	1817773	62.641	ug/L #	94
62) 1,3,5-Trimethylbenzene	12.940	105	3533938	154.072	ug/L	97
63) 1,2,4-Trimethylbenzene	13.245	105	7786165	346.412	ug/L	97
67) 1,2-Dichlorobenzene	13.867	146	15829	1.379	ug/L #	1
68) 1,2-Dibromo-3-chloropr...	14.495	75	3888	3.406	ug/L #	43

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Quant Title : SFAM01.0
QLast Update : Fri Sep 01 00:44:05 2023
Response via : Initial Calibration

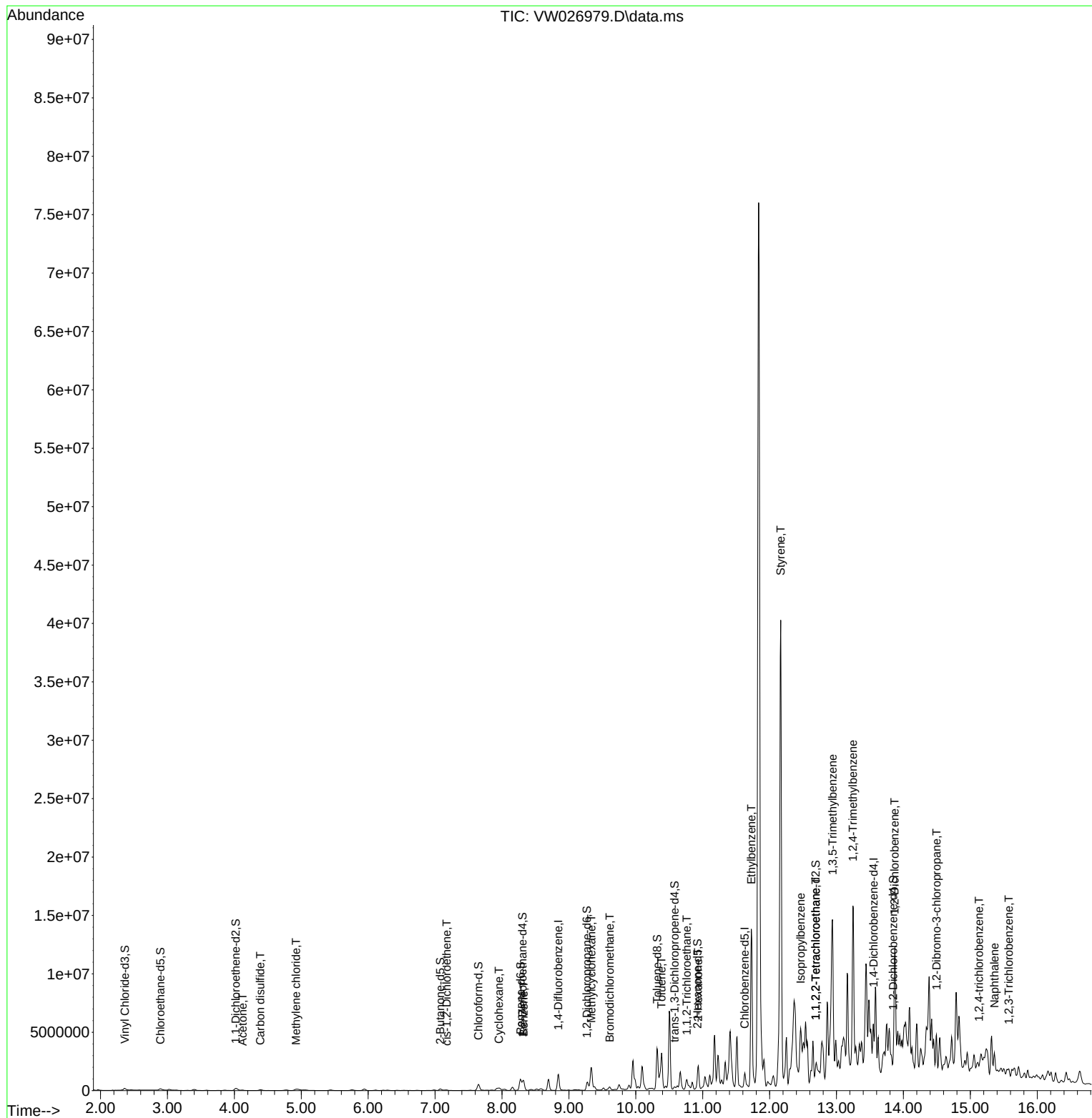
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 1,2,4-trichlorobenzene	15.129	180	5634	0.779	ug/L #	1
71) Naphthalene	15.360	128	1753362	127.151	ug/L	98
72) 1,2,3-Trichlorobenzene	15.574	180	7144	1.096	ug/L #	1

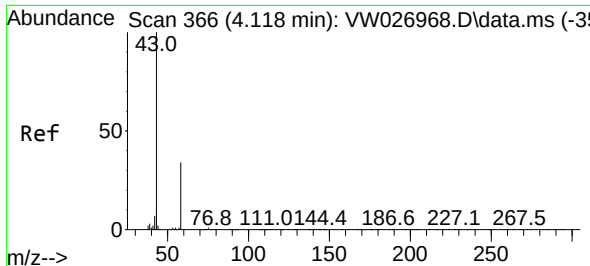
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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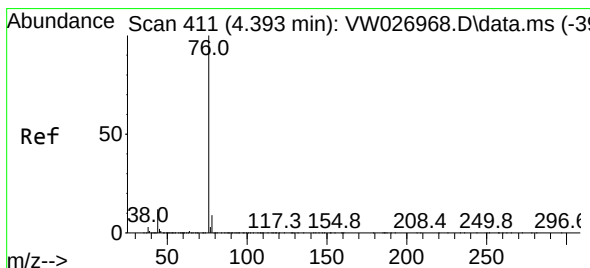
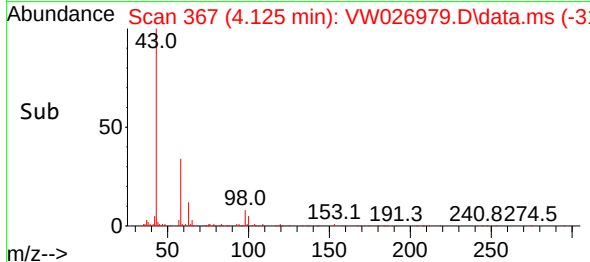
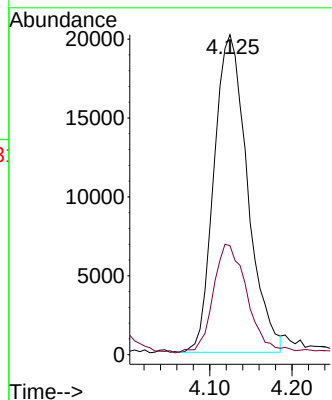
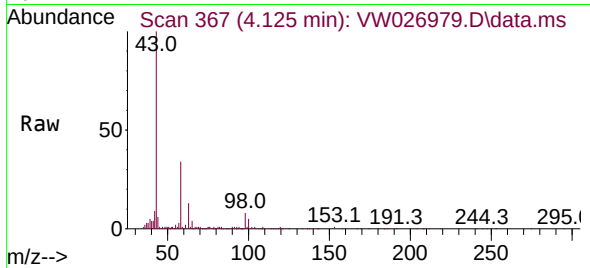




#13
Acetone
Concen: 10.797 ug/L
RT: 4.125 min Scan# 30
Delta R.T. 0.006 min
Lab File: VW026979.D
Acq: 31 Aug 2023 15:48

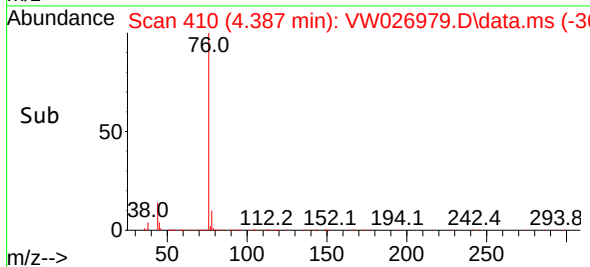
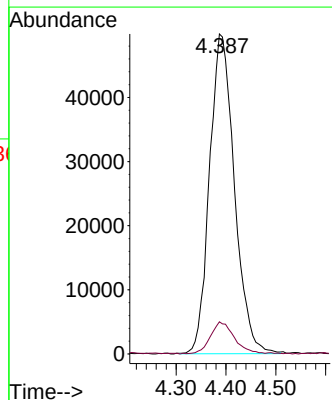
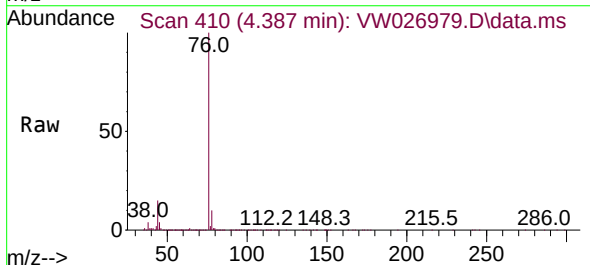
Instrument :
MSVOA_W
ClientSampleId :

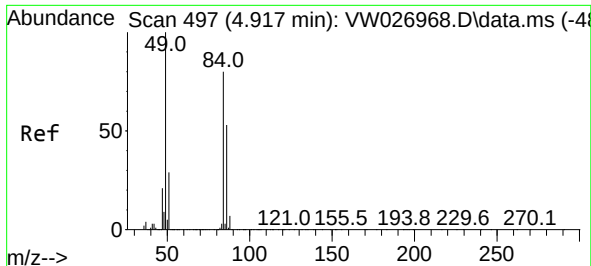
Tgt Ion: 43 Resp: 56963
Ion Ratio Lower Upper
43 100
58 33.7 0.0 57.4



#14
Carbon disulfide
Concen: 2.894 ug/L
RT: 4.387 min Scan# 410
Delta R.T. -0.006 min
Lab File: VW026979.D
Acq: 31 Aug 2023 15:48

Tgt Ion: 76 Resp: 172815
Ion Ratio Lower Upper
76 100
78 10.0 7.1 10.7

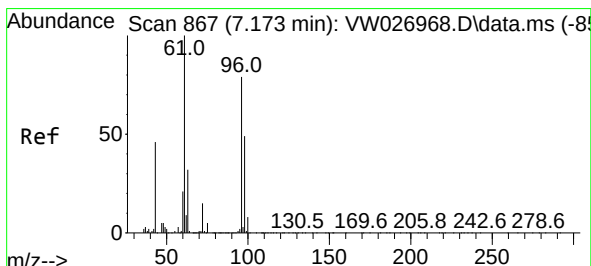
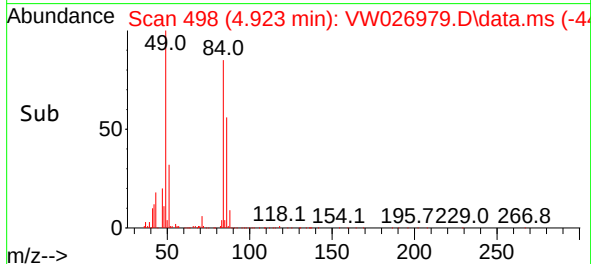
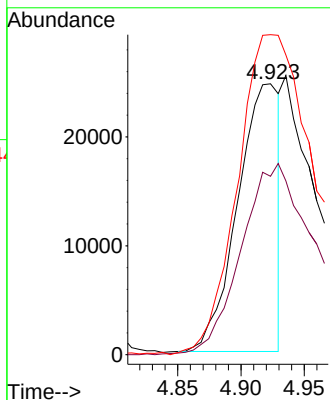
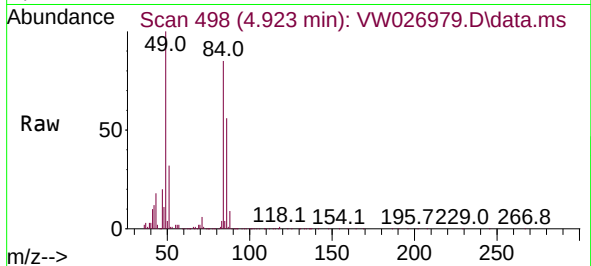




#16
Methylene chloride
Concen: 2.591 ug/L
RT: 4.923 min Scan# 49
Delta R.T. 0.006 min
Lab File: VW026979.D
Acq: 31 Aug 2023 15:48

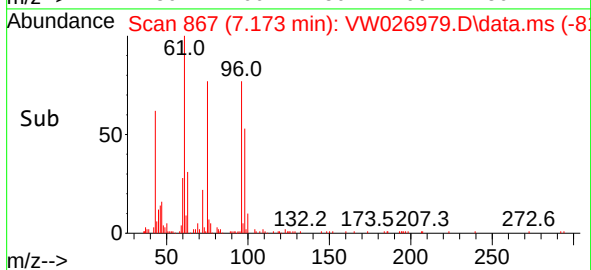
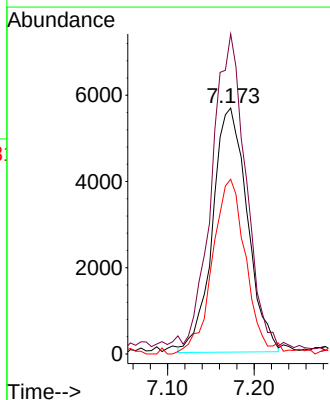
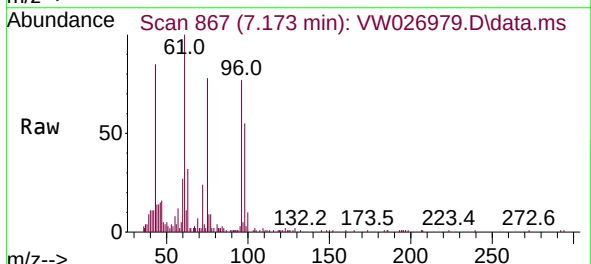
Instrument :
MSVOA_W
ClientSampleId :

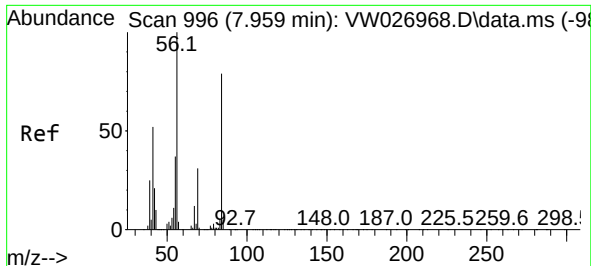
Tgt Ion: 84 Resp: 56286
Ion Ratio Lower Upper
84 100
86 65.8 43.5 80.9
49 118.1 96.0 178.2



#20
cis-1,2-Dichloroethene
Concen: 0.796 ug/L
RT: 7.173 min Scan# 867
Delta R.T. 0.000 min
Lab File: VW026979.D
Acq: 31 Aug 2023 15:48

Tgt Ion: 96 Resp: 15844
Ion Ratio Lower Upper
96 100
61 130.1 101.2 188.0
98 71.1 43.8 81.3





#29

Cyclohexane

Concen: 6.372 ug/L

RT: 7.953 min Scan# 995

Delta R.T. -0.006 min

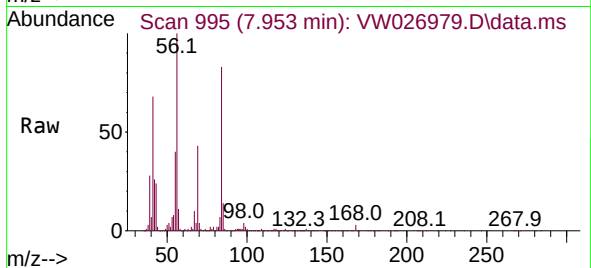
Lab File: VW026979.D

Acq: 31 Aug 2023 15:48

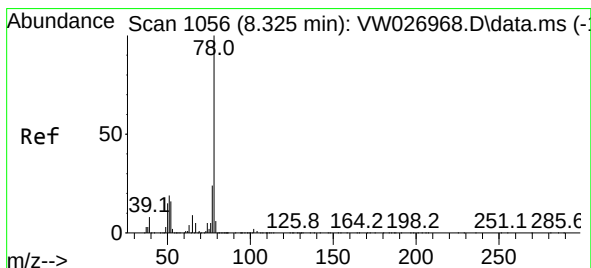
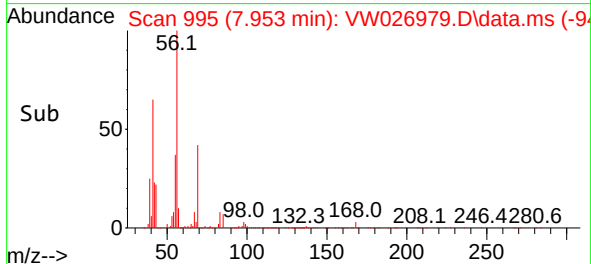
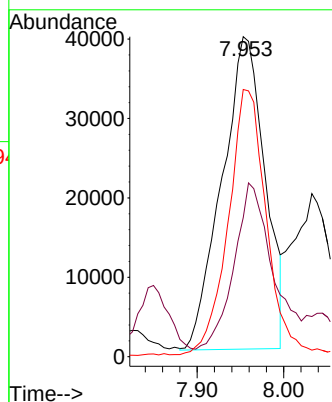
Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 56	Resp: 136019
Ion Ratio	Lower Upper
56	100
69	47.4 23.2 34.8#
84	74.3 62.7 94.1



#33

Benzene

Concen: 13.455 ug/L

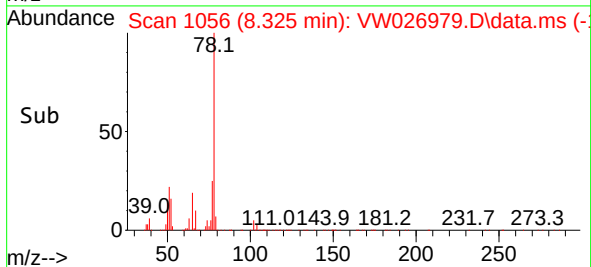
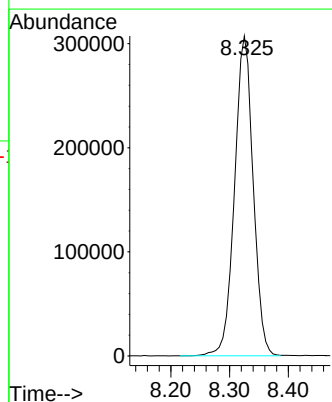
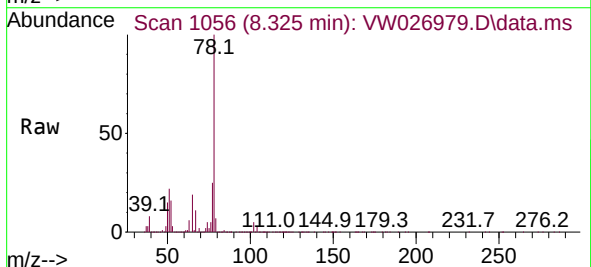
RT: 8.325 min Scan# 1056

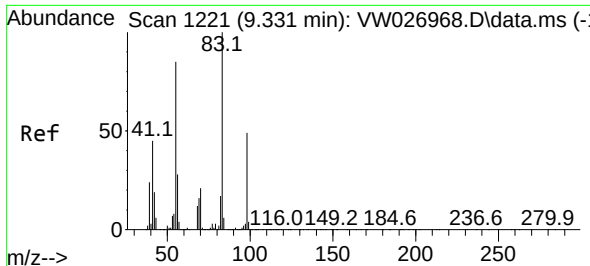
Delta R.T. 0.000 min

Lab File: VW026979.D

Acq: 31 Aug 2023 15:48

Tgt Ion: 78 Resp: 676266

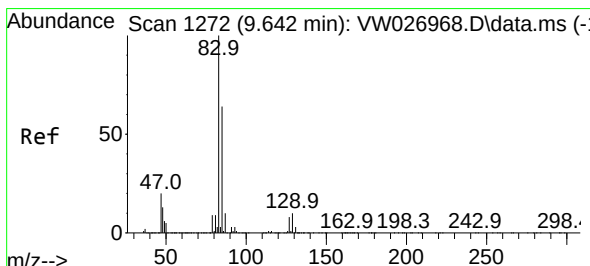
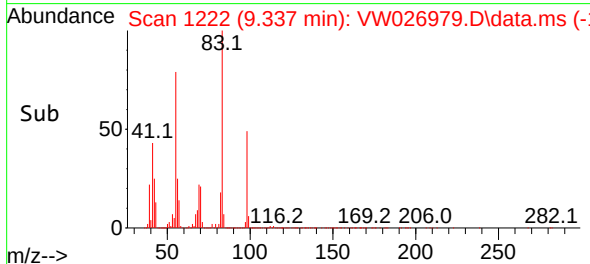
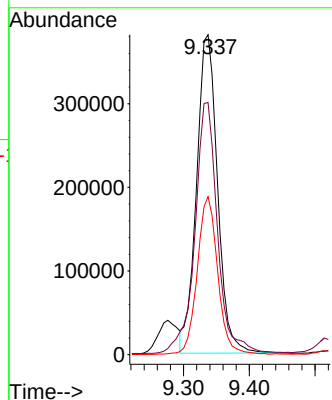
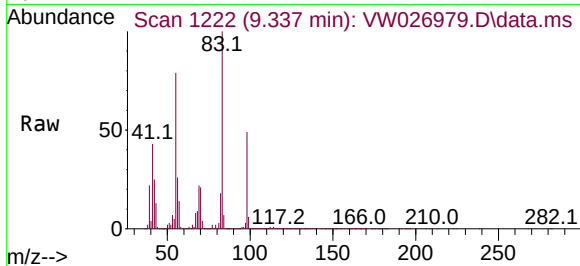




#35
Methylcyclohexane
Concen: 38.589 ug/L
RT: 9.337 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW026979.D
Acq: 31 Aug 2023 15:48

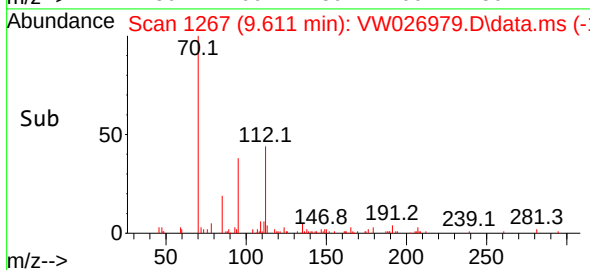
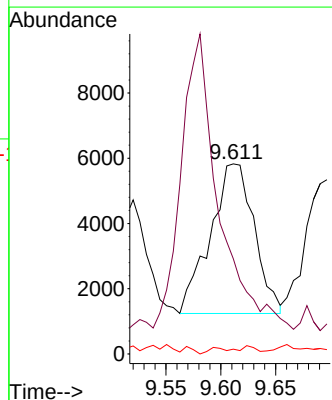
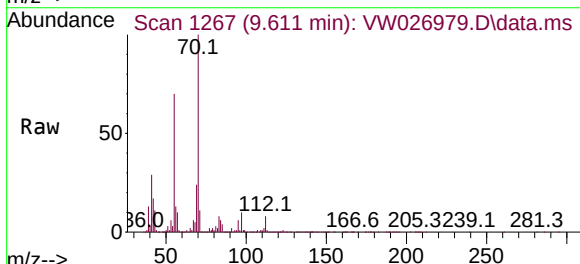
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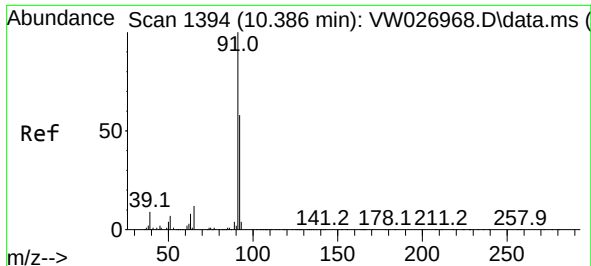
Tgt Ion: 83 Resp: 845085
Ion Ratio Lower Upper
83 100
55 85.5 69.3 103.9
98 48.4 37.4 56.0



#38
Bromodichloromethane
Concen: 0.790 ug/L
RT: 9.611 min Scan# 1267
Delta R.T. -0.030 min
Lab File: VW026979.D
Acq: 31 Aug 2023 15:48

Tgt Ion: 83 Resp: 12762
Ion Ratio Lower Upper
83 100
85 50.1 45.4 84.2
127 2.5 6.2 9.2#

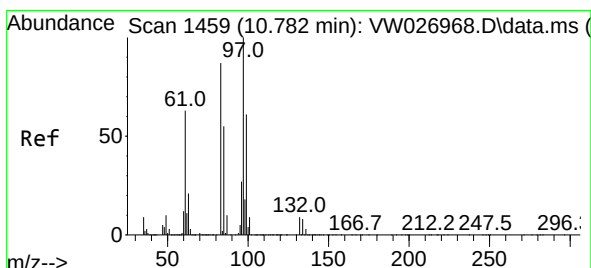
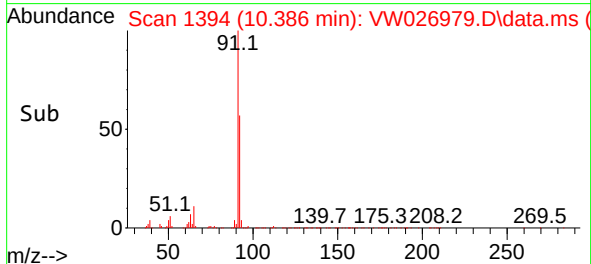
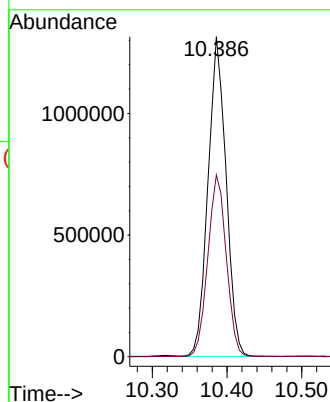
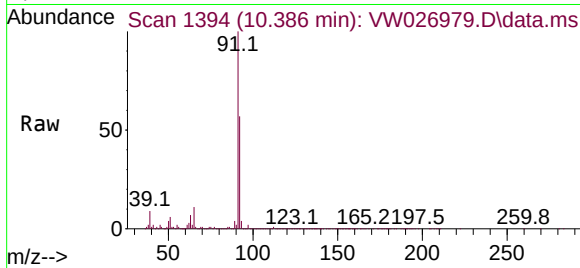




#42
Toluene
Concen: 43.277 ug/L
RT: 10.386 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW026979.D
Acq: 31 Aug 2023 15:48

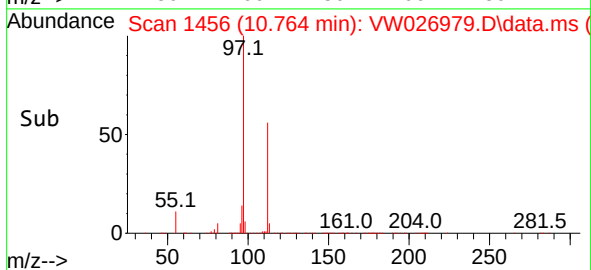
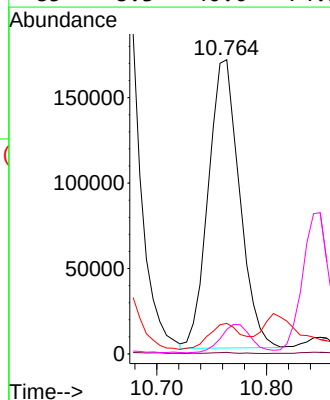
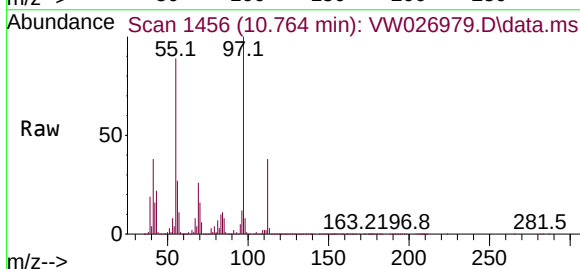
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ClientSampleId :

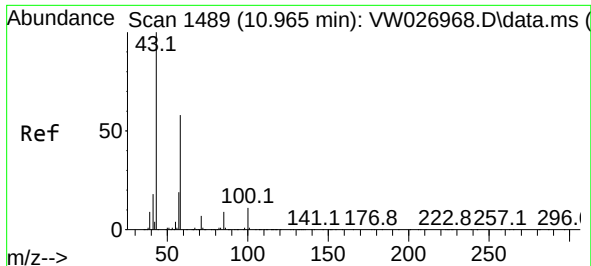
Tgt Ion: 91 Resp: 2200459
Ion Ratio Lower Upper
91 100
92 56.8 40.8 75.8



#45
1,1,2-Trichloroethane
Concen: 35.518 ug/L
RT: 10.764 min Scan# 1456
Delta R.T. -0.018 min
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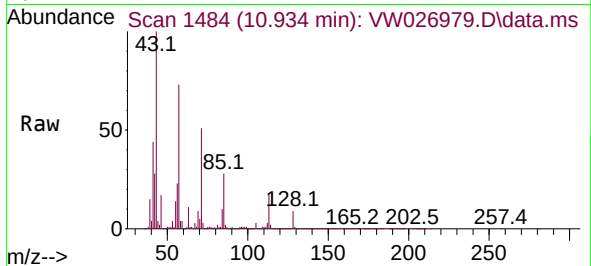
Tgt Ion: 97 Resp: 334428
Ion Ratio Lower Upper
97 100
99 0.5 44.2 82.0#
83 10.4 61.9 114.9#
85 8.3 40.0 74.2#



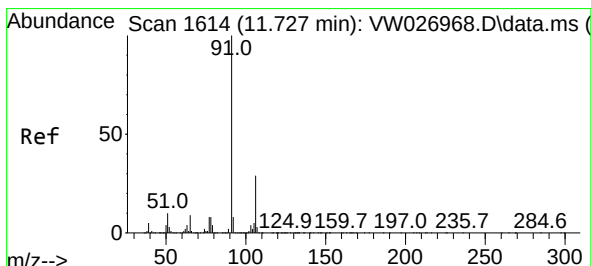
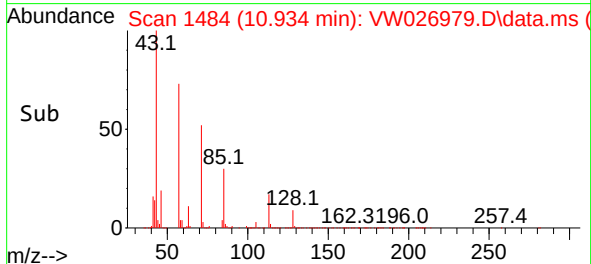
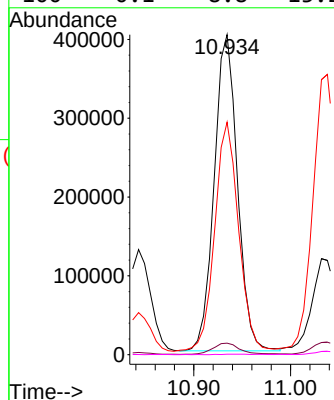


#48
2-Hexanone
Concen: 109.968 ug/L
RT: 10.934 min Scan# 1489
Delta R.T. -0.030 min
Lab File: VW026979.D
Acq: 31 Aug 2023 15:48

Instrument :
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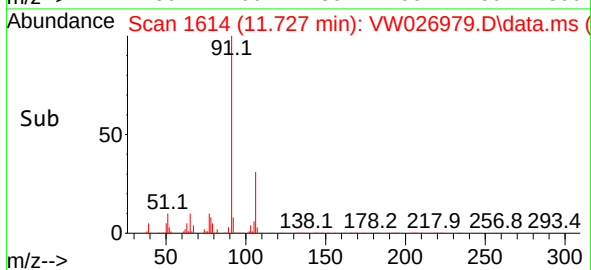
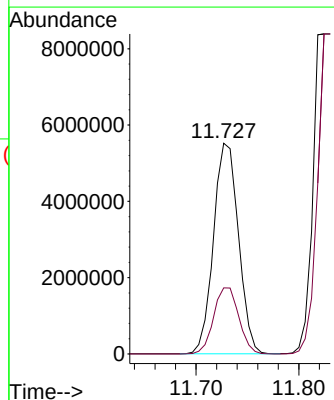
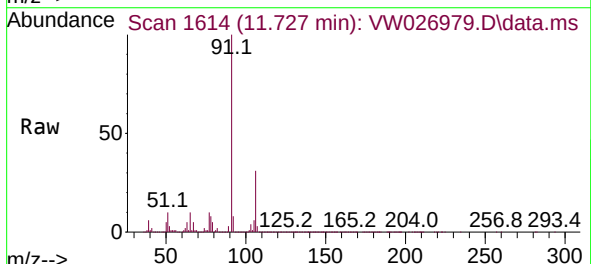


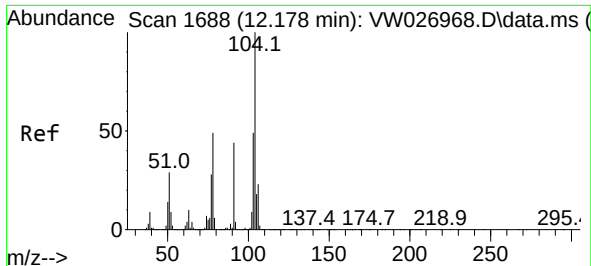
Tgt Ion: 43 Resp: 670107
Ion Ratio Lower Upper
43 100
58 4.0 41.1 61.7#
57 74.5 14.3 21.5#
100 0.1 8.8 13.2#



#52
Ethylbenzene
Concen: 163.317 ug/L
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW026979.D
Acq: 31 Aug 2023 15:48

Tgt Ion: 91 Resp: 9312132
Ion Ratio Lower Upper
91 100
106 31.3 20.2 37.6

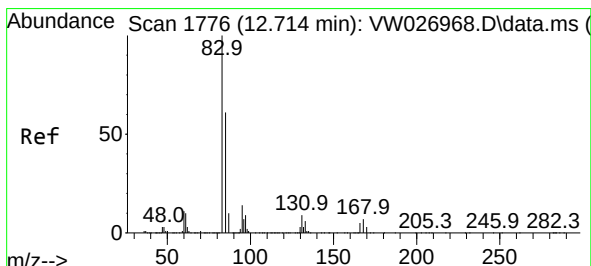
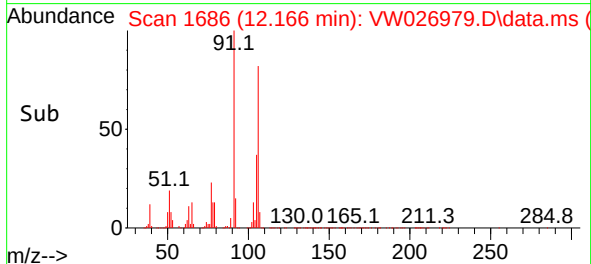
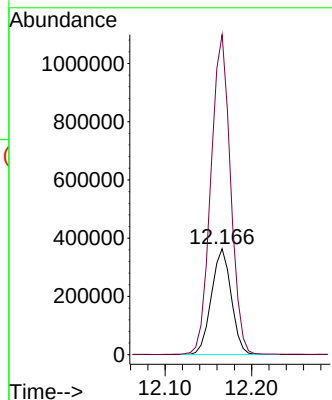
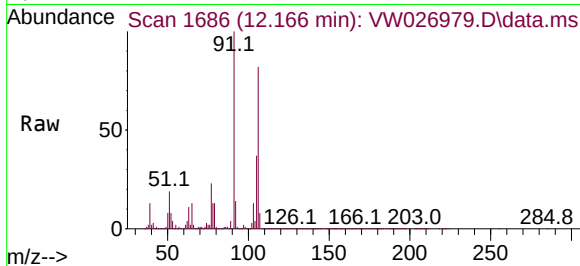




#55
Styrene
Concen: 16.827 ug/L
RT: 12.166 min Scan# 1
Delta R.T. -0.012 min
Lab File: VW026979.D
Acq: 31 Aug 2023 15:48

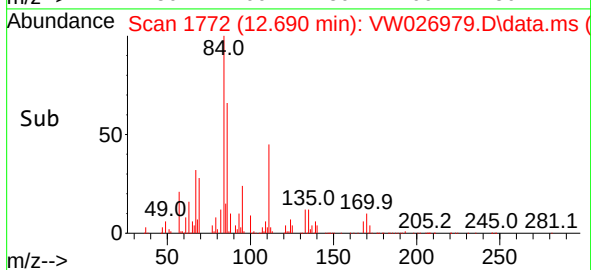
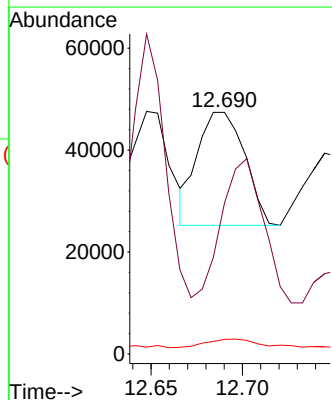
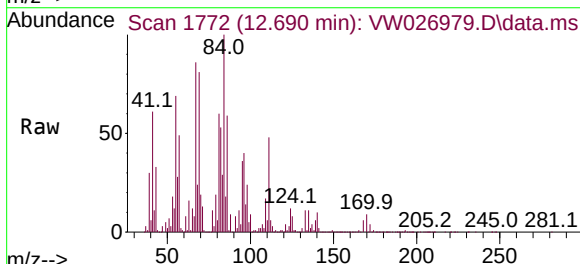
Instrument :
MSVOA_W
ClientSampleId :

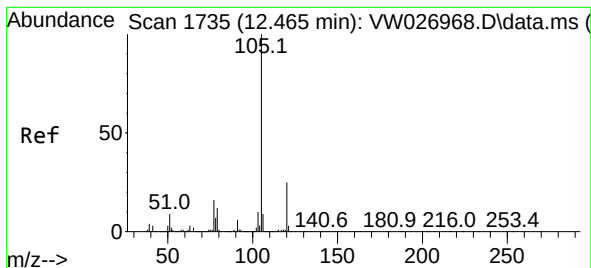
Tgt Ion:104 Resp: 576783
Ion Ratio Lower Upper
104 100
78 302.0 33.0 61.2#



#57
1,1,2,2-Tetrachloroethane
Concen: 3.346 ug/L
RT: 12.690 min Scan# 1772
Delta R.T. -0.024 min
Lab File: VW026979.D
Acq: 31 Aug 2023 15:48

Tgt Ion: 83 Resp: 39905
Ion Ratio Lower Upper
83 100
85 62.5 44.9 83.3
131 6.0 7.4 11.0#





#60

Isopropylbenzene

Concen: 62.641 ug/L

RT: 12.465 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW026979.D

Acq: 31 Aug 2023 15:48

Instrument :

MSVOA_W

ClientSampleId :

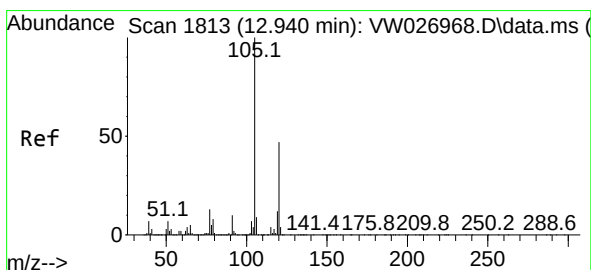
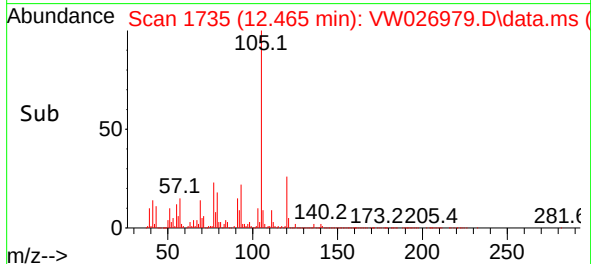
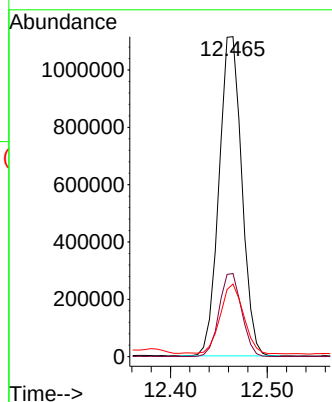
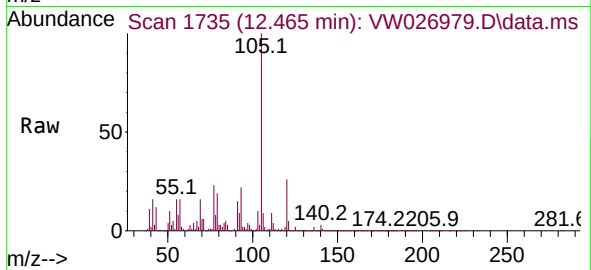
Tgt Ion:105 Resp: 1817773

Ion Ratio Lower Upper

105 100

120 25.7 21.0 31.6

77 22.5 13.4 20.2#



#62

1,3,5-Trimethylbenzene

Concen: 154.072 ug/L

RT: 12.940 min Scan# 1813

Delta R.T. 0.000 min

Lab File: VW026979.D

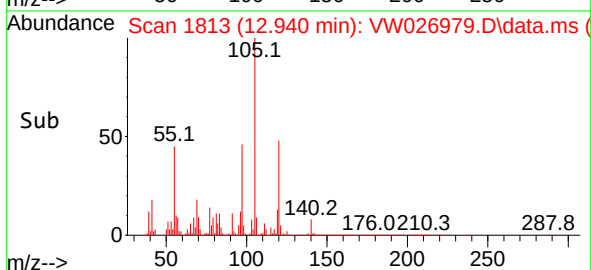
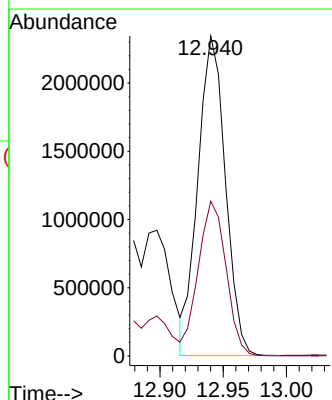
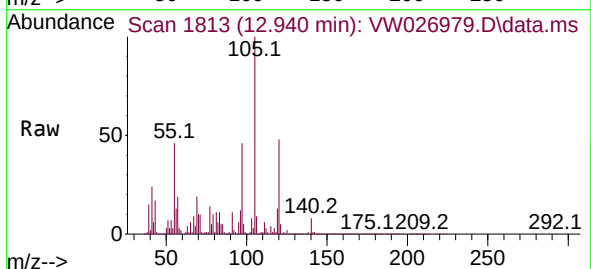
Acq: 31 Aug 2023 15:48

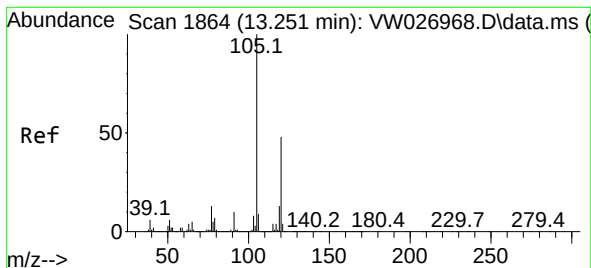
Tgt Ion:105 Resp: 3533938

Ion Ratio Lower Upper

105 100

120 49.1 37.4 56.2





#63

1,2,4-Trimethylbenzene

Concen: 346.412 ug/L

RT: 13.245 min Scan# 1863

Delta R.T. -0.006 min

Lab File: VW026979.D

Acq: 31 Aug 2023 15:48

Instrument :

MSVOA_W

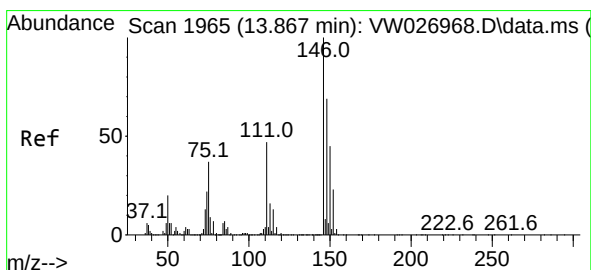
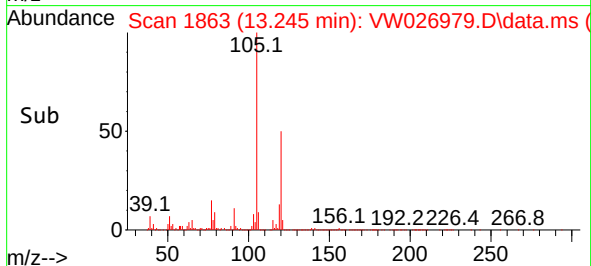
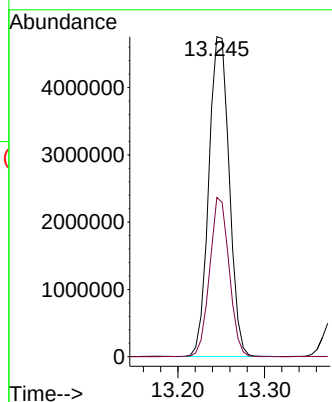
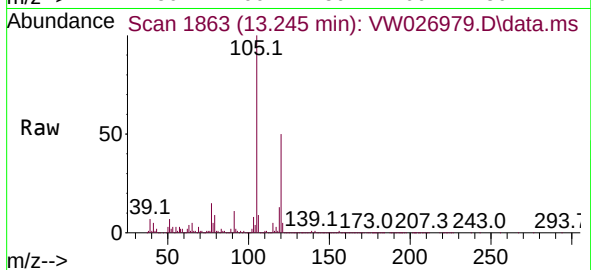
ClientSampleId :

Tgt Ion:105 Resp: 7786165

Ion Ratio Lower Upper

105 100

120 47.4 36.2 54.4



#67

1,2-Dichlorobenzene

Concen: 1.379 ug/L

RT: 13.867 min Scan# 1965

Delta R.T. 0.000 min

Lab File: VW026979.D

Acq: 31 Aug 2023 15:48

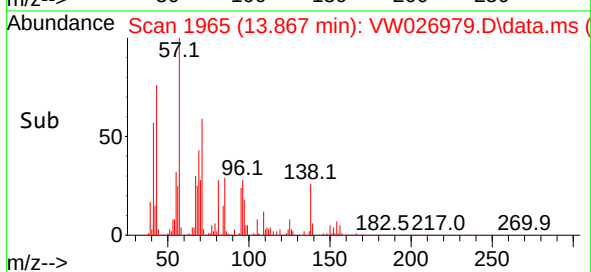
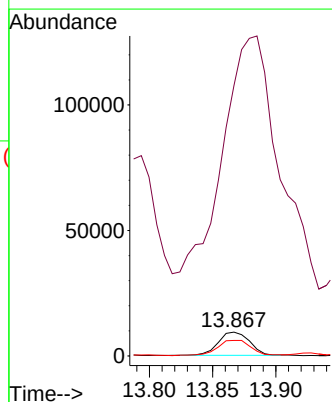
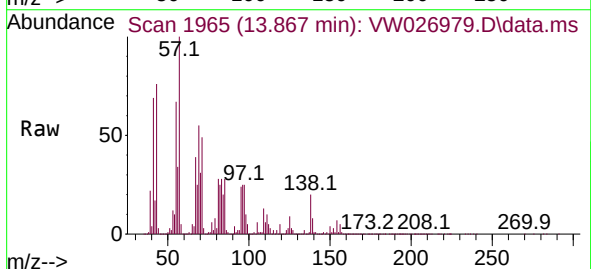
Tgt Ion:146 Resp: 15829

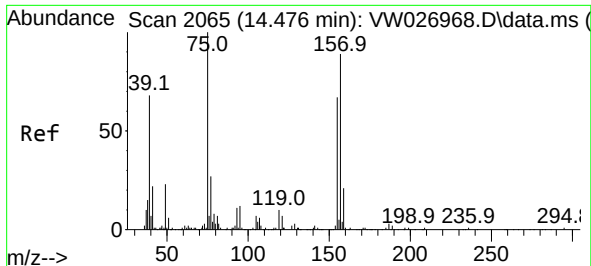
Ion Ratio Lower Upper

146 100

111 1134.5 34.6 52.0#

148 65.4 53.4 80.0

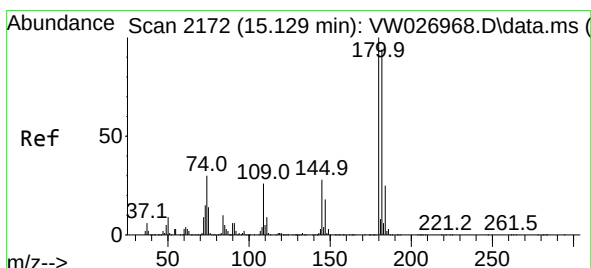
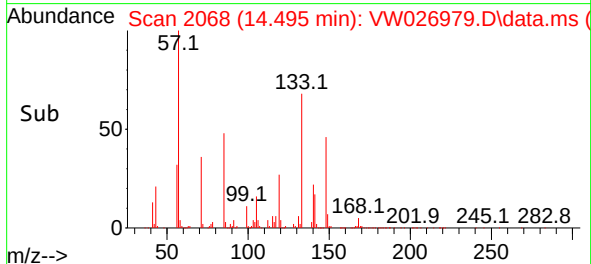
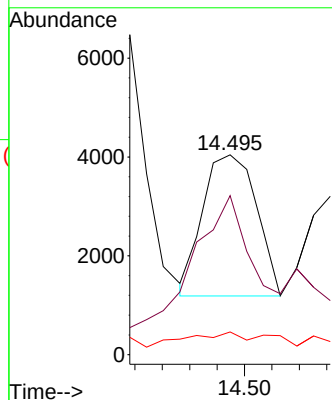
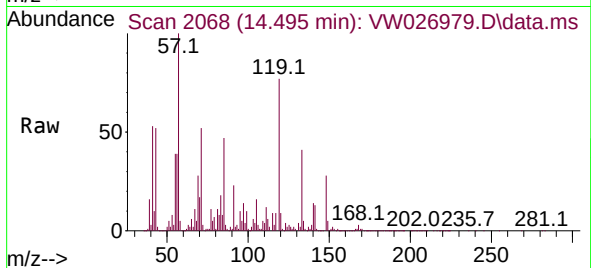




#68
1,2-Dibromo-3-chloropropane
Concen: 3.406 ug/L
RT: 14.495 min Scan# 2068
Delta R.T. 0.018 min
Lab File: VW026979.D
Acq: 31 Aug 2023 15:48

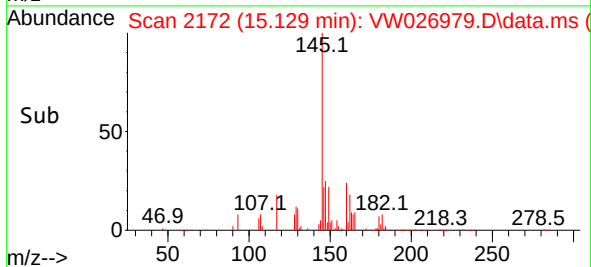
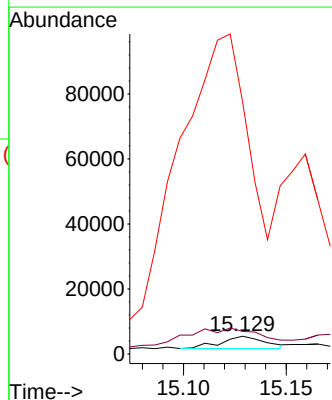
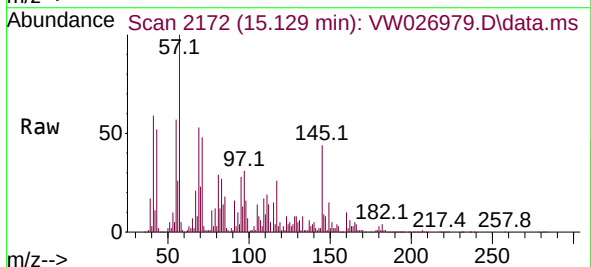
Instrument :
MSVOA_W
ClientSampleId :

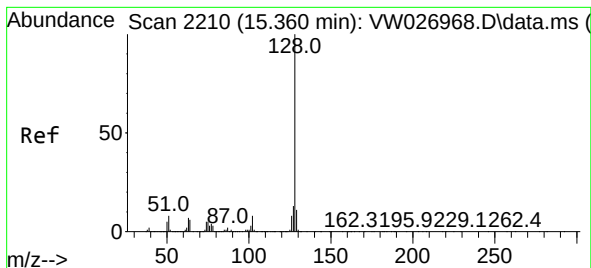
Tgt Ion: 75 Resp: 3888
Ion Ratio Lower Upper
75 100
155 79.6 55.0 82.6
157 11.4 77.8 116.6#



#70
1,2,4-trichlorobenzene
Concen: 0.779 ug/L
RT: 15.129 min Scan# 2172
Delta R.T. 0.000 min
Lab File: VW026979.D
Acq: 31 Aug 2023 15:48

Tgt Ion:180 Resp: 5634
Ion Ratio Lower Upper
180 100
182 304.4 72.5 108.7#
145 4108.0 24.7 37.1#





#71

Naphthalene

Concen: 127.151 ug/L

RT: 15.360 min Scan# 21

Delta R.T. 0.000 min

Lab File: VW026979.D

Acq: 31 Aug 2023 15:48

Instrument :

MSVOA_W

ClientSampleId :

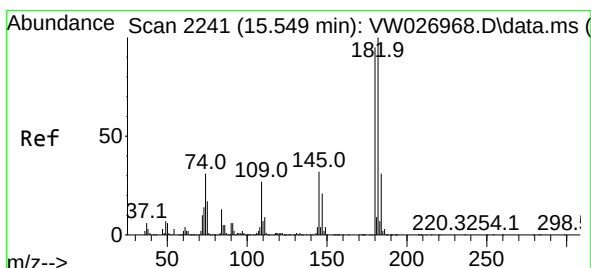
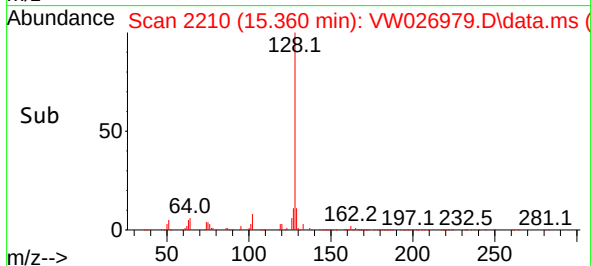
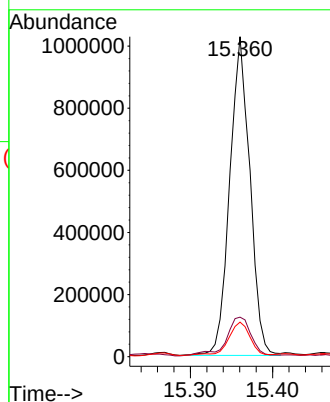
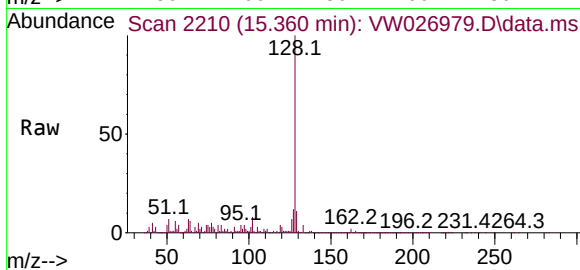
Tgt Ion:128 Resp: 1753362

Ion Ratio Lower Upper

128 100

127 12.9 10.7 16.1

129 10.0 9.0 13.4



#72

1,2,3-Trichlorobenzene

Concen: 1.096 ug/L

RT: 15.574 min Scan# 2245

Delta R.T. 0.024 min

Lab File: VW026979.D

Acq: 31 Aug 2023 15:48

Tgt Ion:180 Resp: 7144

Ion Ratio Lower Upper

180 100

182 159.4 74.6 112.0#

145 1340.9 27.0 40.6#

