

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW041723\
 Data File : VW030598.D
 Acq On : 17 Apr 2023 19:00
 Operator : SY/MD
 Sample : 02360-06
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 18 02:51:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM041723WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Apr 18 02:45:56 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.555	114	267941	50.000	ug/L	# 0.01
28) Chlorobenzene-d5	8.796	117	278381	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	138217	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	83241	42.379	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.760%
7) Chloroethane-d5	1.481	69	156	0.095	ug/L	-0.05
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.180%#
11) 1,1-Dichloroethene-d2	2.063	65	40200	43.156	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.320%
21) 2-Butanone-d5	3.815	46	96955	89.868	ug/L	0.01
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.870%
24) Chloroform-d	4.262	84	150862	42.381	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.760%
26) 1,2-Dichloroethane-d4	4.957	65	104190	45.527	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.060%
32) Benzene-d6	4.985	84	300938	45.723	ug/L	0.02
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.440%
36) 1,2-Dichloropropane-d6	6.066	67	100403	49.110	ug/L	0.07
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.220%
41) Toluene-d8	7.262	98	307093	49.695	ug/L	0.01
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.380%
43) trans-1,3-Dichloroprop...	7.564	79	52135	50.595	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.180%
47) 2-Hexanone-d5	8.037	63	74678	92.723	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	92.720%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	127567	43.001	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	86.000%
66) 1,2-Dichlorobenzene-d4	11.570	152	105961	48.232	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.460%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	17088	5.655	ug/L	99
6) Bromomethane	1.494	94	3316	3.432	ug/L	93
9) Trichlorofluoromethane	2.072	101	172933	43.796	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.072	101	177315	85.446	ug/L	99
12) 1,1-Dichloroethene	2.072	96	56227	29.969	ug/L	83
13) Acetone	2.134	43	26168	15.675	ug/L	91
20) cis-1,2-Dichloroethene	3.828	96	24899	12.085	ug/L	95
25) Chloroform	4.291	83	27424	6.861	ug/L	98
30) 1,1,1-Trichloroethane	4.535	97	936465	239.403	ug/L	100
31) Carbon tetrachloride	4.760	117	51111	14.614	ug/L	99
33) Benzene	5.043	78	42646	5.045	ug/L	100
38) Bromodichloromethane	6.461	83	13272	4.152	ug/L #	92
40) 4-Methyl-2-pentanone	7.175	43	3729409	1173.371	ug/L	99
42) Toluene	7.333	91	2076850	229.370	ug/L	99
44) trans-1,3-Dichloropropene	7.567	75	2764	0.824	ug/L #	83
45) 1,1,2-Trichloroethane	7.780	97	175107	76.749	ug/L	99
46) Tetrachloroethene	7.918	164	36900	19.172	ug/L	99
52) Ethylbenzene	8.960	91	20117	2.007	ug/L	97
53) m,p-Xylene	9.085	106	8460	2.234	ug/L	93

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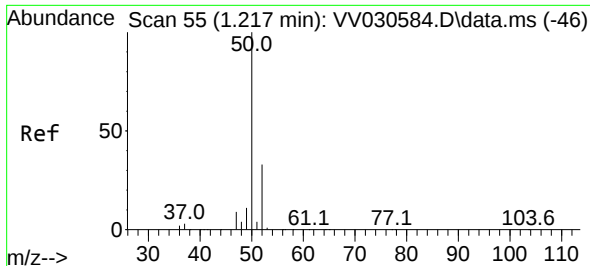
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM041723WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Apr 18 02:45:56 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	9.490	106	2496	0.674	ug/L	81
60) Isopropylbenzene	9.876	105	103739	12.035	ug/L	99
65) 1,4-Dichlorobenzene	11.220	146	6960	1.529	ug/L	97

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

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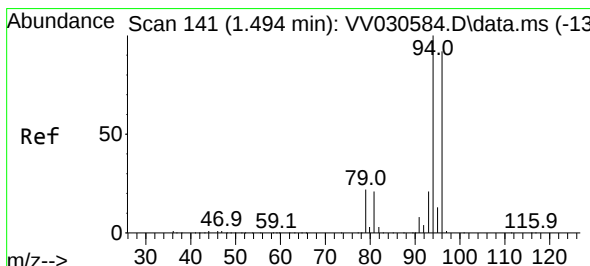
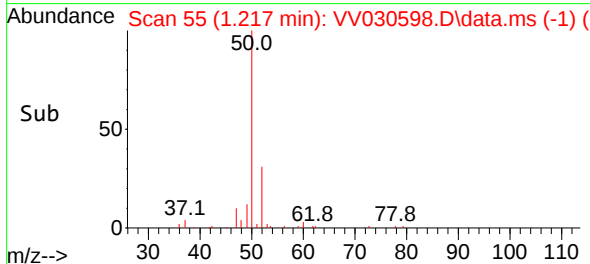
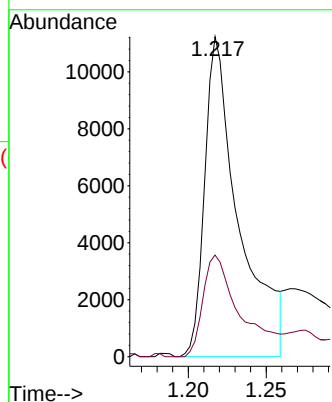
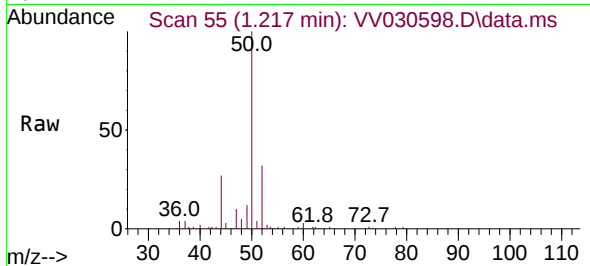




#3
Chloromethane
Concen: 5.655 ug/L
RT: 1.217 min Scan# 51
Delta R.T. -0.000 min
Lab File: VV030598.D
Acq: 17 Apr 2023 19:00

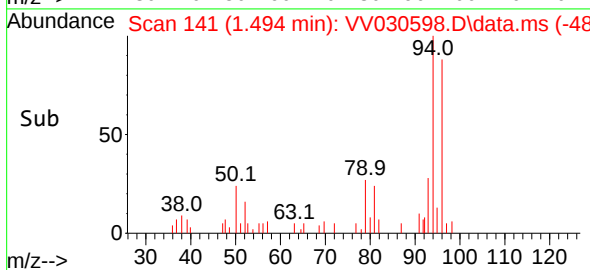
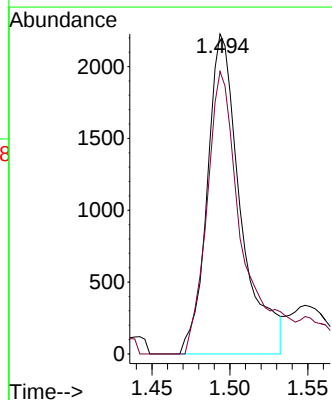
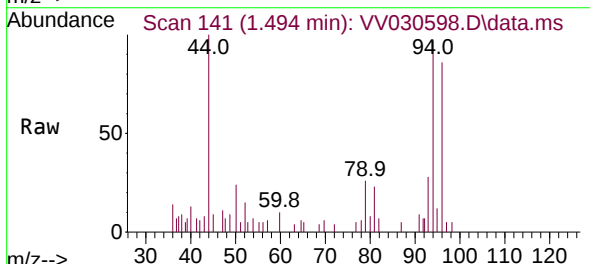
Instrument :
MSVOA_V
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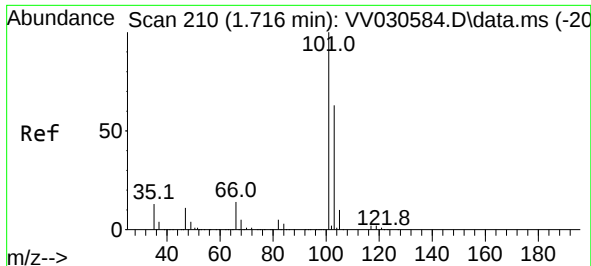
Tgt Ion: 50 Resp: 17088
Ion Ratio Lower Upper
50 100
52 31.8 22.5 41.9



#6
Bromomethane
Concen: 3.432 ug/L
RT: 1.494 min Scan# 141
Delta R.T. -0.000 min
Lab File: VV030598.D
Acq: 17 Apr 2023 19:00

Tgt Ion: 94 Resp: 3316
Ion Ratio Lower Upper
94 100
96 88.3 66.3 123.1

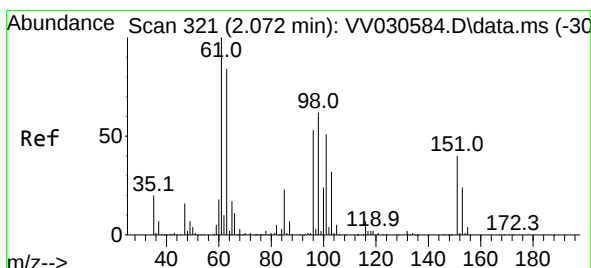
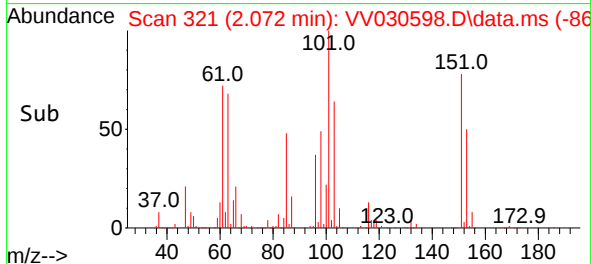
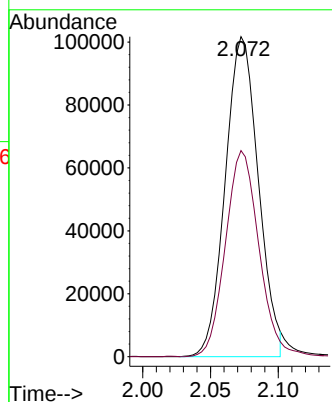
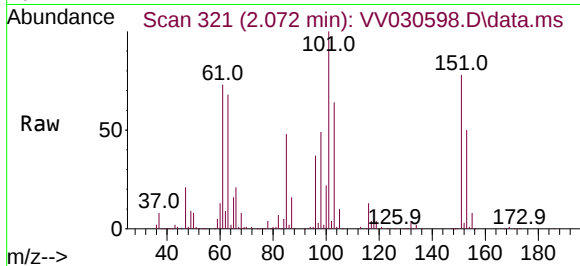




#9
 Trichlorofluoromethane
 Concen: 43.796 ug/L
 RT: 2.072 min Scan# 31
 Delta R.T. 0.357 min
 Lab File: VV030598.D
 Acq: 17 Apr 2023 19:00

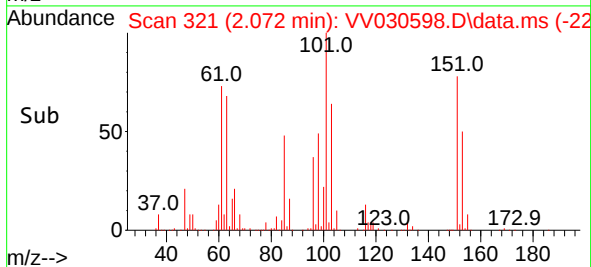
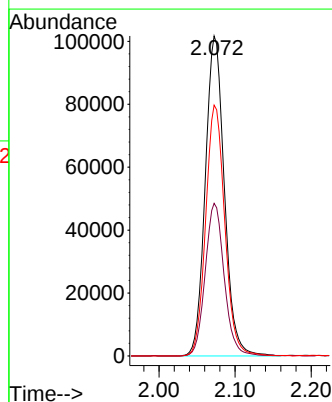
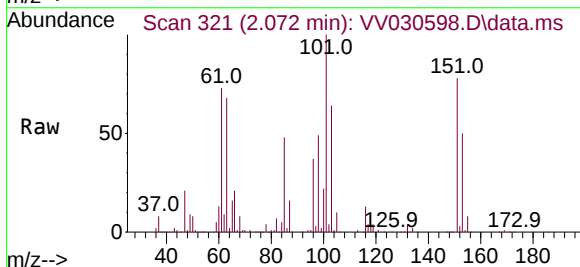
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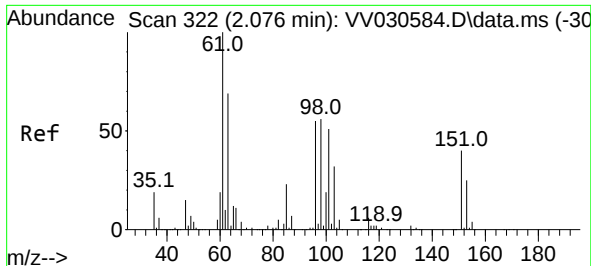
Tgt Ion:101 Resp: 172933
 Ion Ratio Lower Upper
 101 100
 103 63.9 51.4 77.0



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 85.446 ug/L
 RT: 2.072 min Scan# 321
 Delta R.T. -0.000 min
 Lab File: VV030598.D
 Acq: 17 Apr 2023 19:00

Tgt Ion:101 Resp: 177315
 Ion Ratio Lower Upper
 101 100
 85 47.6 37.5 56.3
 151 78.4 63.5 95.3





#12

1,1-Dichloroethene

Concen: 29.969 ug/L

RT: 2.072 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV030598.D

Acq: 17 Apr 2023 19:00

Instrument :

MSVOA_V

ClientSampleId :

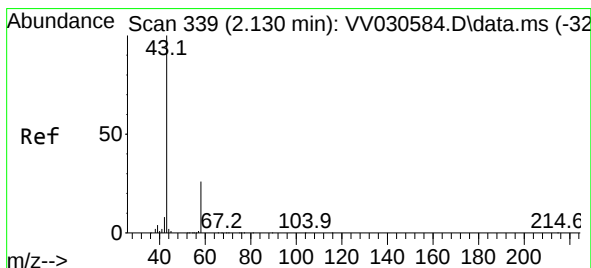
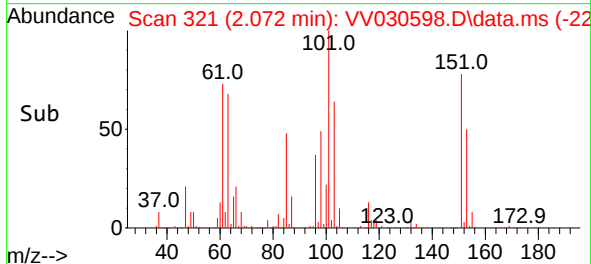
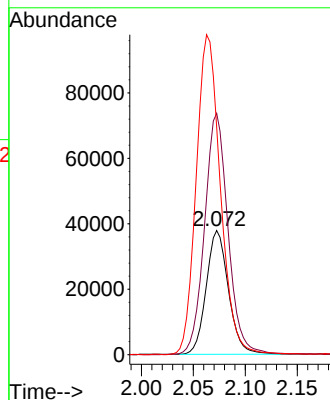
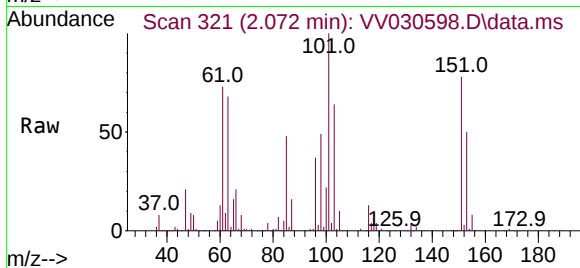
Tgt Ion: 96 Resp: 56227

Ion Ratio Lower Upper

96 100

61 194.4 131.9 245.0

63 183.3 99.8 185.3



#13

Acetone

Concen: 15.675 ug/L

RT: 2.134 min Scan# 340

Delta R.T. 0.003 min

Lab File: VV030598.D

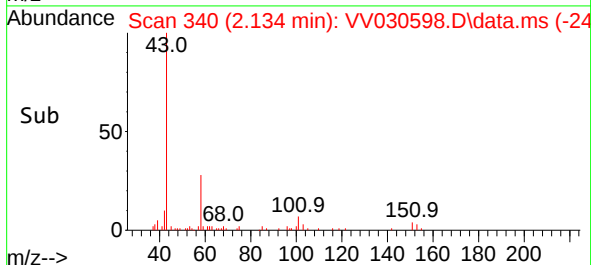
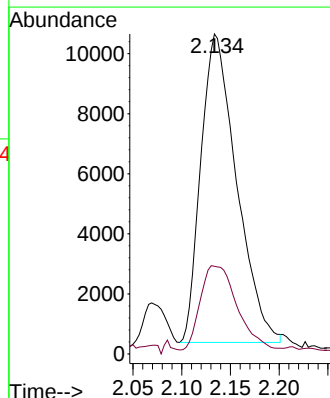
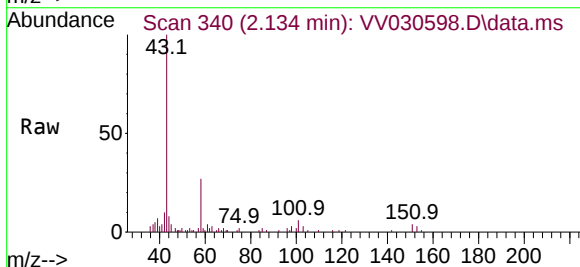
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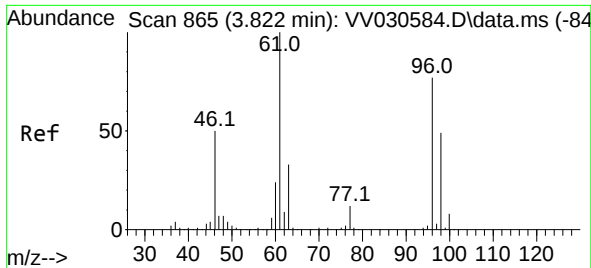
Tgt Ion: 43 Resp: 26168

Ion Ratio Lower Upper

43 100

58 31.1 0.0 52.8

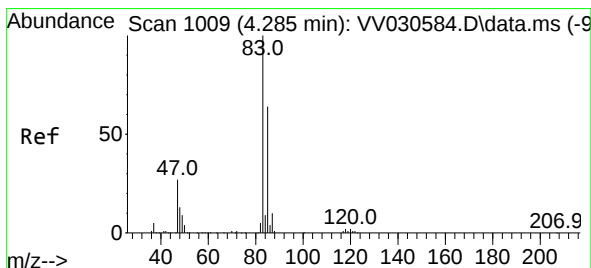
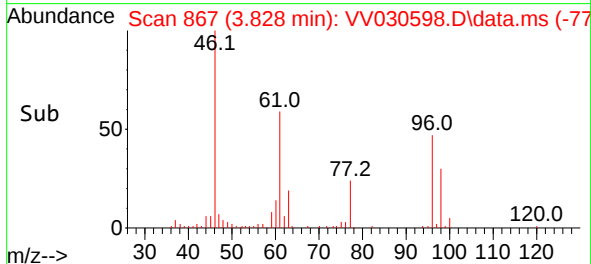
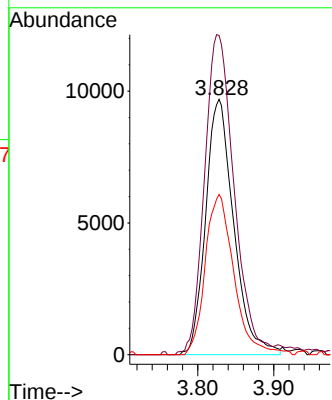
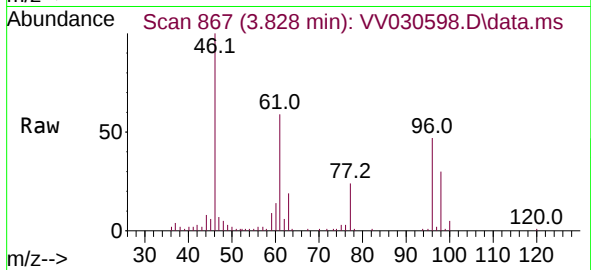




#20
 cis-1,2-Dichloroethene
 Concen: 12.085 ug/L
 RT: 3.828 min Scan# 80
 Delta R.T. 0.006 min
 Lab File: VV030598.D
 Acq: 17 Apr 2023 19:00

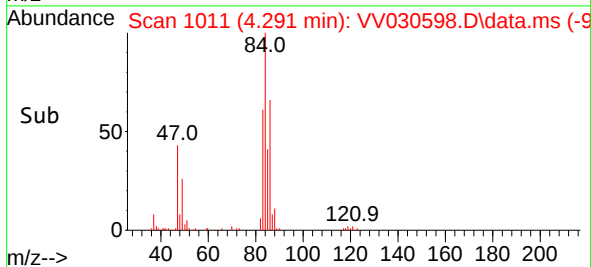
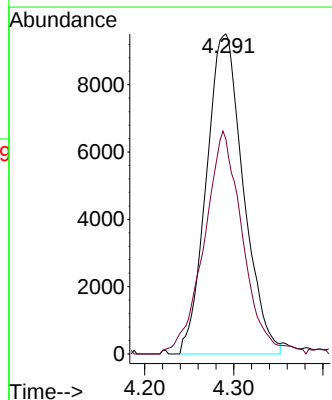
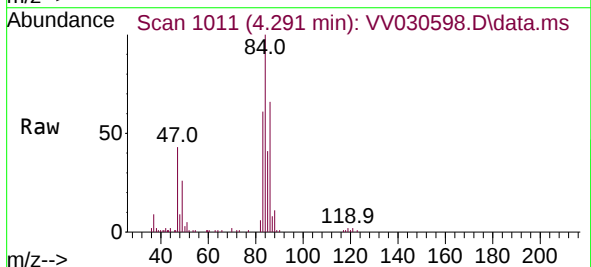
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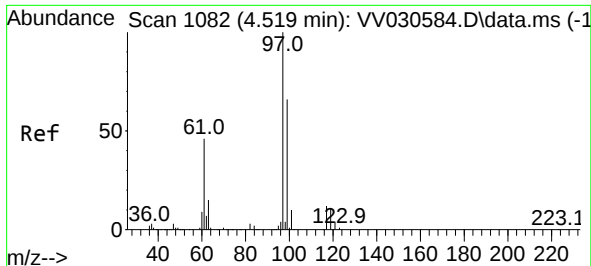
Tgt Ion: 96 Resp: 24899
 Ion Ratio Lower Upper
 96 100
 61 125.1 92.3 171.3
 98 62.7 45.9 85.3



#25
 Chloroform
 Concen: 6.861 ug/L
 RT: 4.291 min Scan# 1011
 Delta R.T. 0.006 min
 Lab File: VV030598.D
 Acq: 17 Apr 2023 19:00

Tgt Ion: 83 Resp: 27424
 Ion Ratio Lower Upper
 83 100
 85 67.3 45.8 85.2

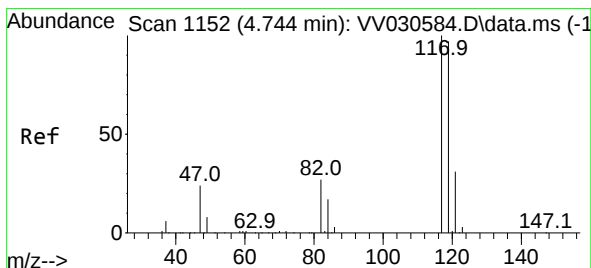
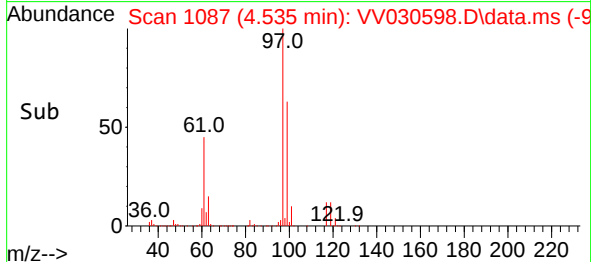
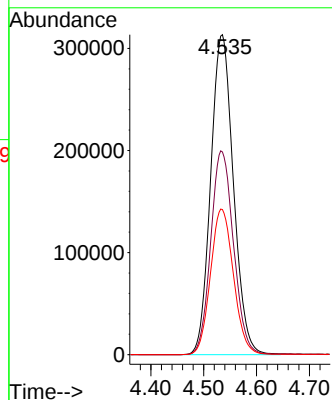
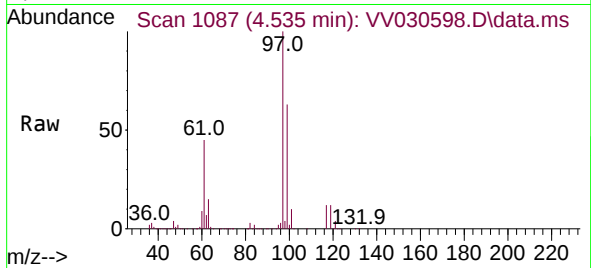




#30
1,1,1-Trichloroethane
Concen: 239.403 ug/L
RT: 4.535 min Scan# 1087
Delta R.T. 0.016 min
Lab File: VV030598.D
Acq: 17 Apr 2023 19:00

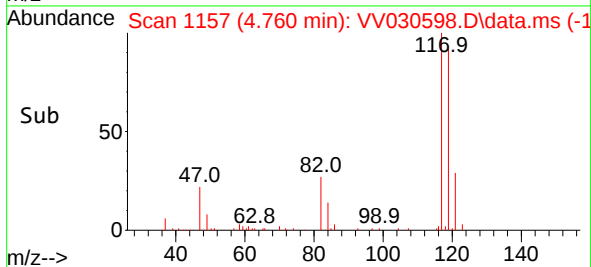
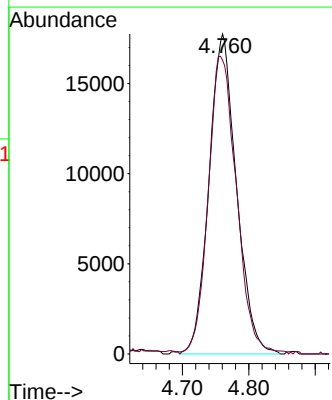
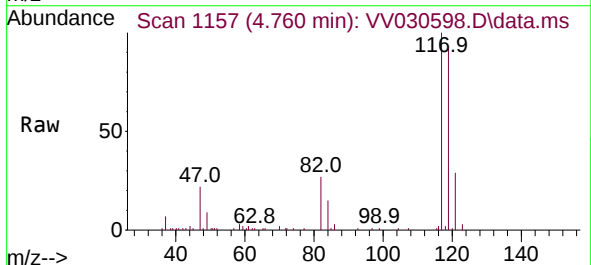
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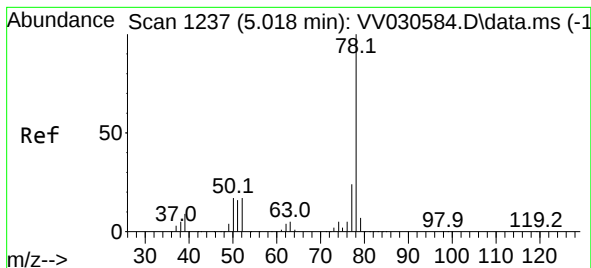
Tgt Ion: 97 Resp: 936465
Ion Ratio Lower Upper
97 100
99 64.0 51.4 77.0
61 46.1 37.0 55.6



#31
Carbon tetrachloride
Concen: 14.614 ug/L
RT: 4.760 min Scan# 1157
Delta R.T. 0.016 min
Lab File: VV030598.D
Acq: 17 Apr 2023 19:00

Tgt Ion: 117 Resp: 51111
Ion Ratio Lower Upper
117 100
119 95.6 75.9 113.9





#33

Benzene

Concen: 5.045 ug/L

RT: 5.043 min Scan# 1

Delta R.T. 0.026 min

Lab File: VV030598.D

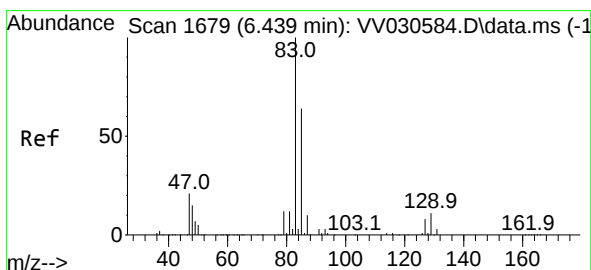
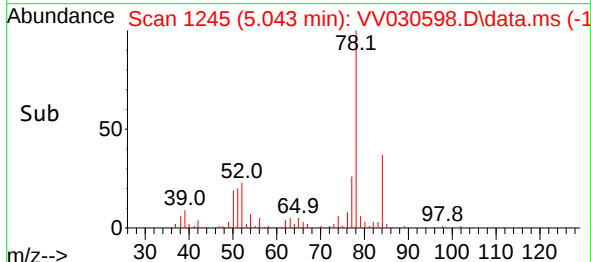
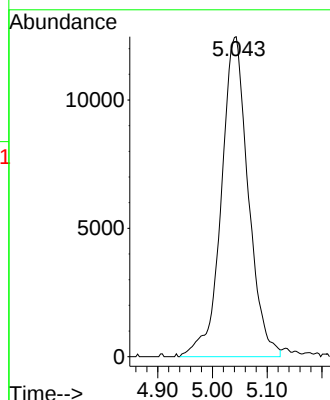
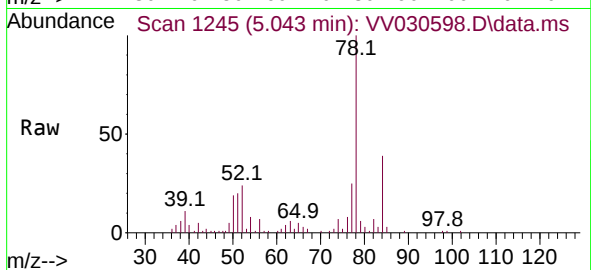
Acq: 17 Apr 2023 19:00

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 78 Resp: 42646



#38

Bromodichloromethane

Concen: 4.152 ug/L

RT: 6.461 min Scan# 1686

Delta R.T. 0.022 min

Lab File: VV030598.D

Acq: 17 Apr 2023 19:00

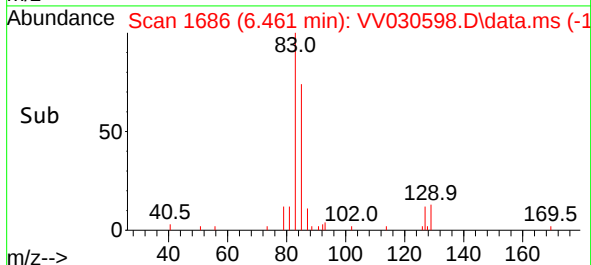
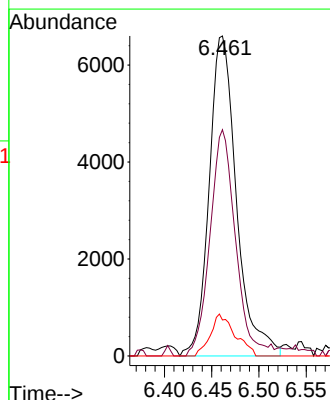
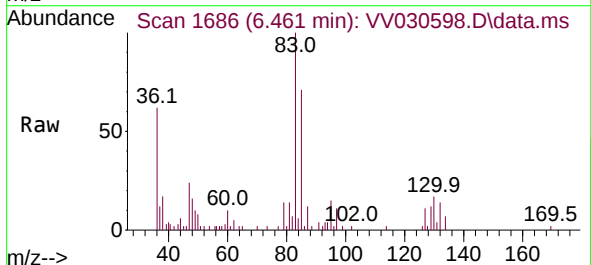
Tgt Ion: 83 Resp: 13272

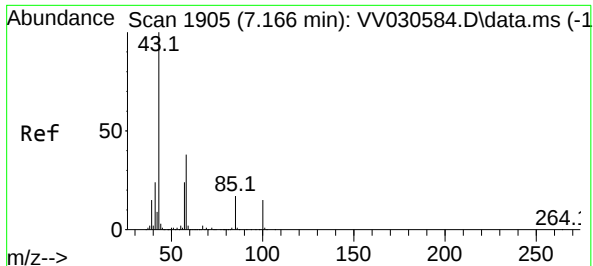
Ion Ratio Lower Upper

83 100

85 70.7 45.4 84.4

127 13.2 7.0 10.4#





#40

4-Methyl-2-pentanone

Concen: 1173.371 ug/L

RT: 7.175 min Scan# 1908

Delta R.T. 0.010 min

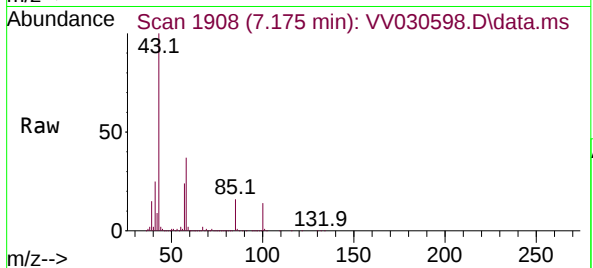
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Acq: 17 Apr 2023 19:00

Instrument :

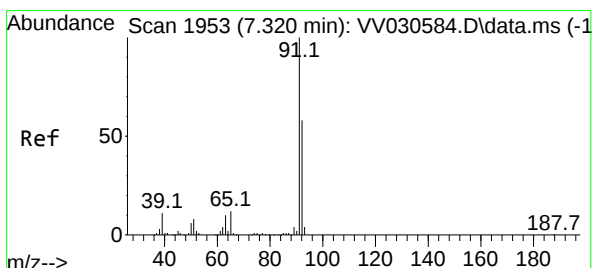
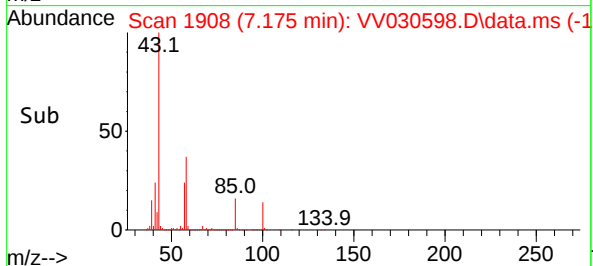
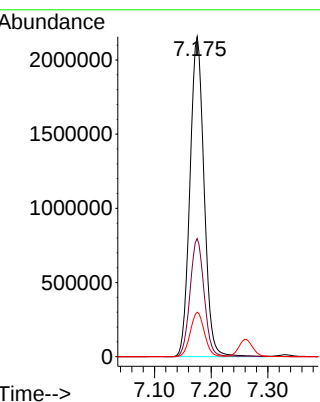
MSVOA_V

ClientSampleId :



Tgt Ion: 43 Resp: 3729409

Ion	Ratio	Lower	Upper
43	100		
58	36.8	29.2	43.8
100	13.9	11.3	16.9



#42

Toluene

Concen: 229.370 ug/L

RT: 7.333 min Scan# 1957

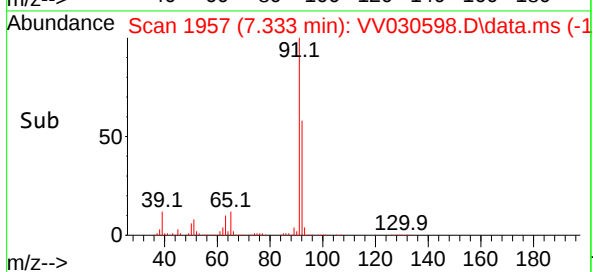
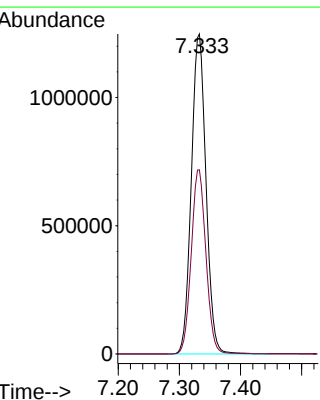
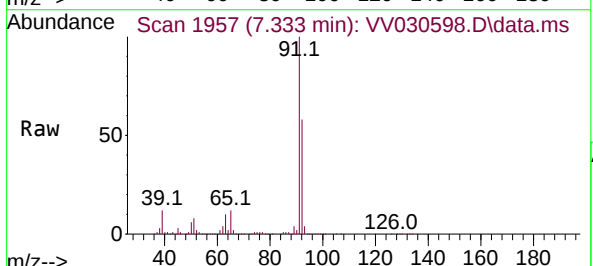
Delta R.T. 0.013 min

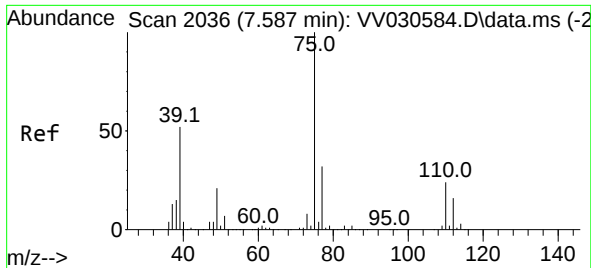
Lab File: VV030598.D

Acq: 17 Apr 2023 19:00

Tgt Ion: 91 Resp: 2076850

Ion	Ratio	Lower	Upper
91	100		
92	57.6	39.8	73.8

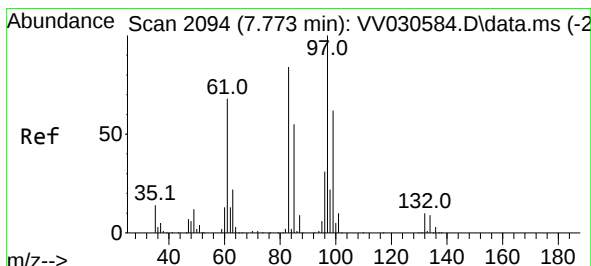
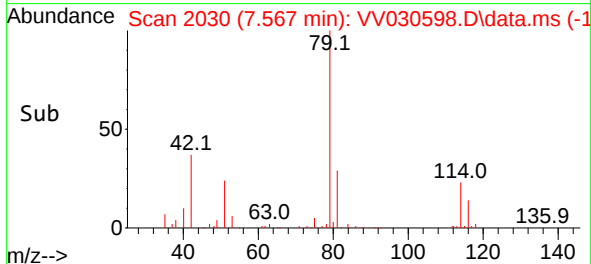
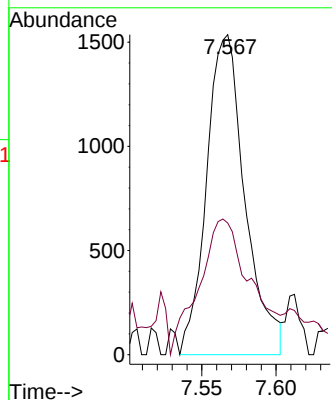
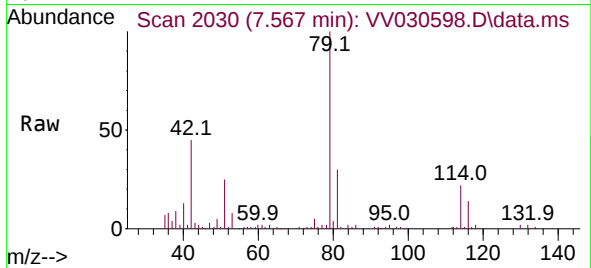




#44
trans-1,3-Dichloropropene
Concen: 0.824 ug/L
RT: 7.567 min Scan# 2036
Delta R.T. -0.019 min
Lab File: VV030598.D
Acq: 17 Apr 2023 19:00

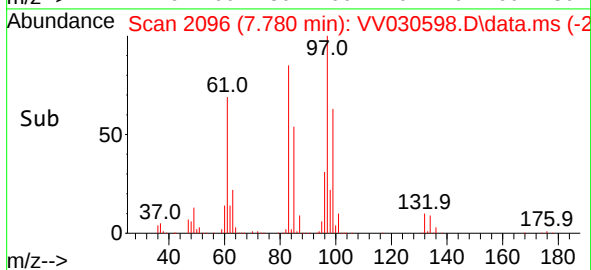
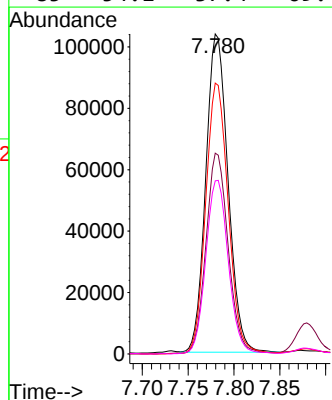
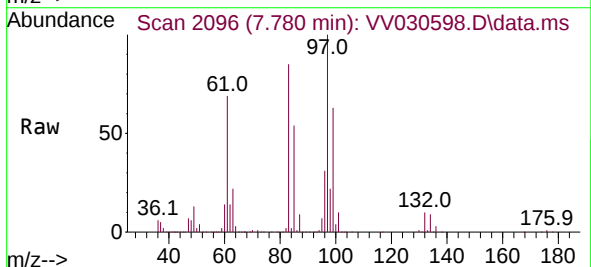
Instrument :
MSVOA_V
ClientSampleId :

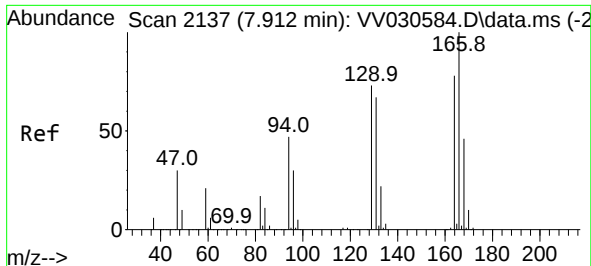
Tgt Ion: 75 Resp: 2764
Ion Ratio Lower Upper
75 100
77 41.1 22.1 41.1#



#45
1,1,2-Trichloroethane
Concen: 76.749 ug/L
RT: 7.780 min Scan# 2096
Delta R.T. 0.006 min
Lab File: VV030598.D
Acq: 17 Apr 2023 19:00

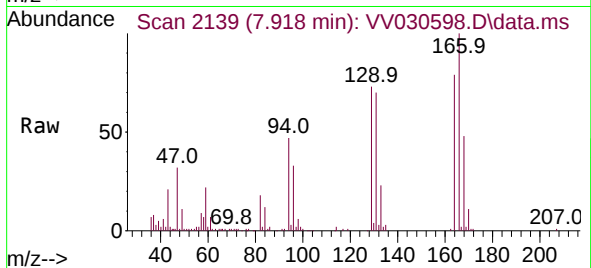
Tgt Ion: 97 Resp: 175107
Ion Ratio Lower Upper
97 100
99 62.8 43.8 81.4
83 84.7 59.6 110.6
85 54.1 37.4 69.4



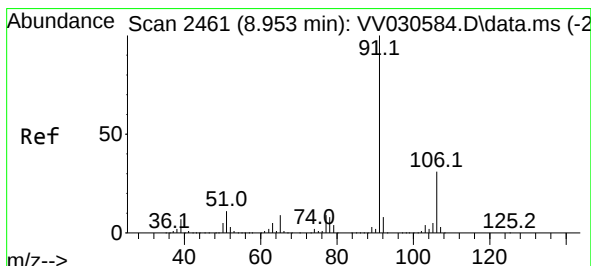
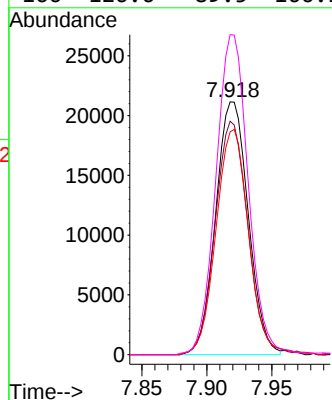
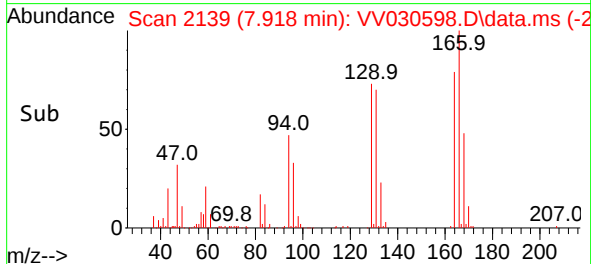


#46
Tetrachloroethene
Concen: 19.172 ug/L
RT: 7.918 min Scan# 2137
Delta R.T. 0.006 min
Lab File: VV030598.D
Acq: 17 Apr 2023 19:00

Instrument :
MSVOA_V
ClientSampleId :

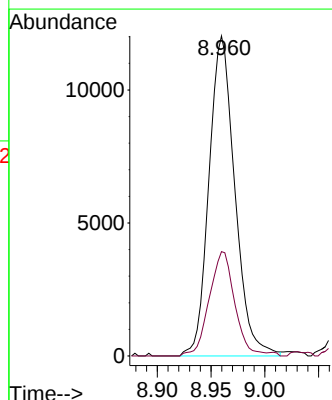
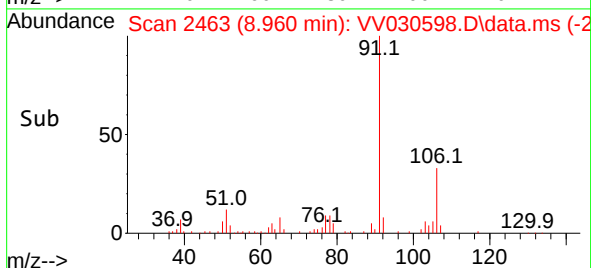
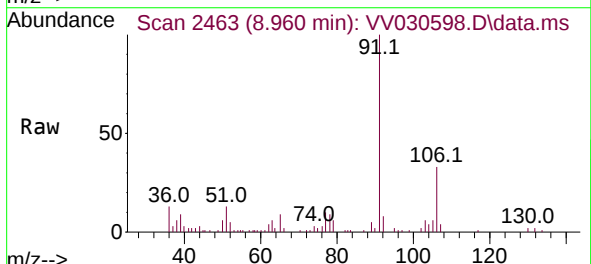


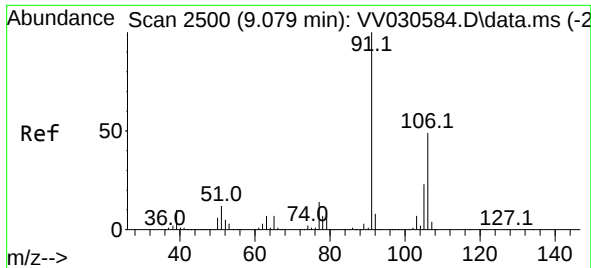
Tgt Ion:164 Resp: 36900
Ion Ratio Lower Upper
164 100
129 92.4 63.8 118.6
131 88.2 60.3 111.9
166 126.6 89.5 166.1



#52
Ethylbenzene
Concen: 2.007 ug/L
RT: 8.960 min Scan# 2463
Delta R.T. 0.006 min
Lab File: VV030598.D
Acq: 17 Apr 2023 19:00

Tgt Ion: 91 Resp: 20117
Ion Ratio Lower Upper
91 100
106 32.6 21.8 40.4

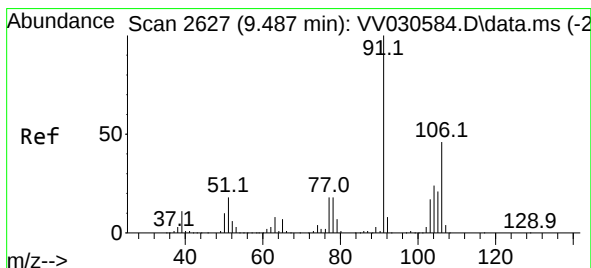
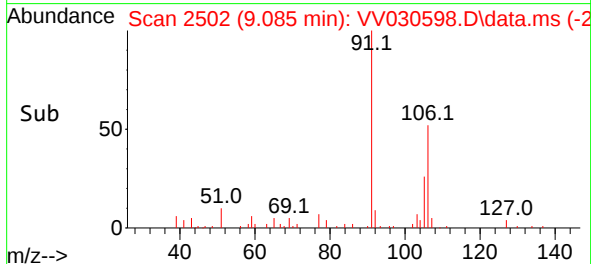
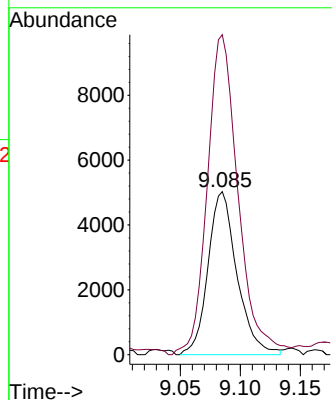
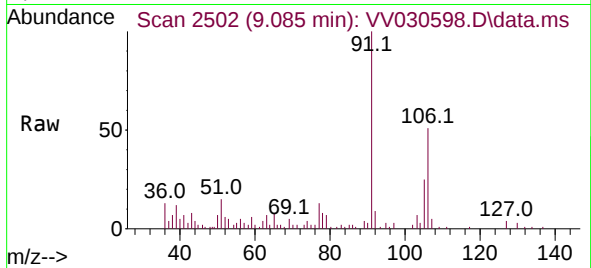




#53
m,p-Xylene
Concen: 2.234 ug/L
RT: 9.085 min Scan# 2500
Delta R.T. 0.006 min
Lab File: VV030598.D
Acq: 17 Apr 2023 19:00

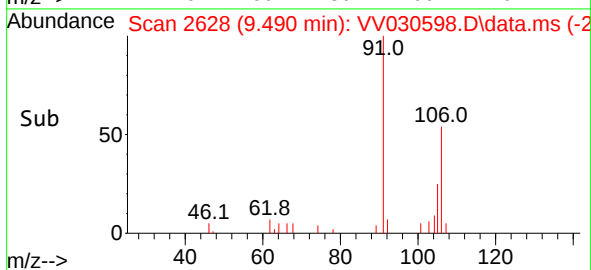
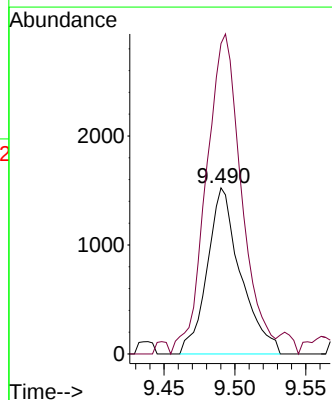
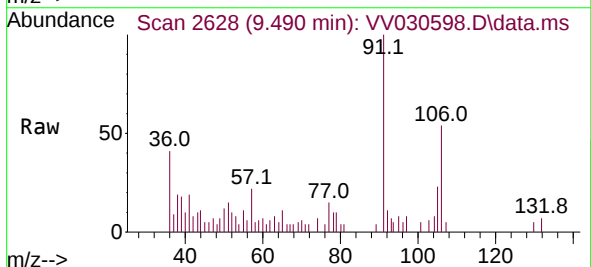
Instrument :
MSVOA_V
ClientSampleId :

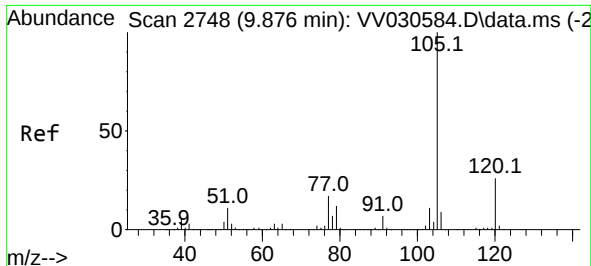
Tgt Ion:106 Resp: 8460
Ion Ratio Lower Upper
106 100
91 196.3 144.7 268.7



#54
o-Xylene
Concen: 0.674 ug/L
RT: 9.490 min Scan# 2628
Delta R.T. 0.003 min
Lab File: VV030598.D
Acq: 17 Apr 2023 19:00

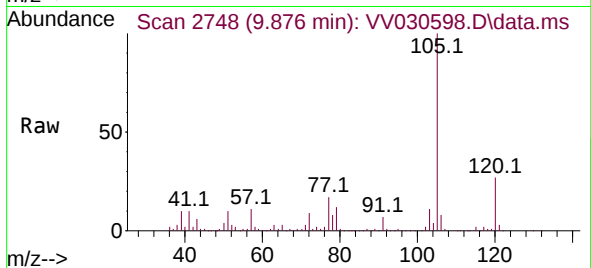
Tgt Ion:106 Resp: 2496
Ion Ratio Lower Upper
106 100
91 186.9 152.6 283.4



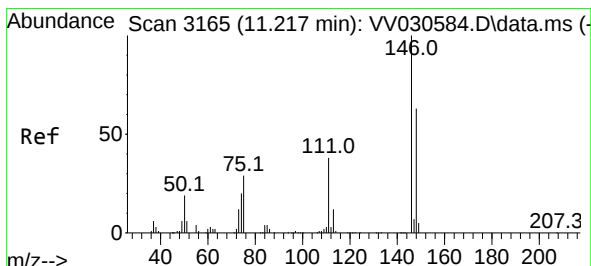
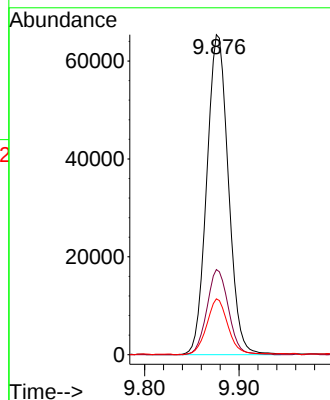
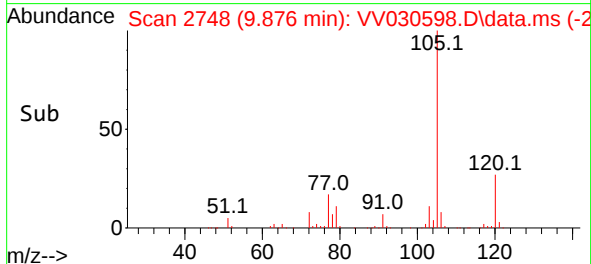


#60
Isopropylbenzene
Concen: 12.035 ug/L
RT: 9.876 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV030598.D
Acq: 17 Apr 2023 19:00

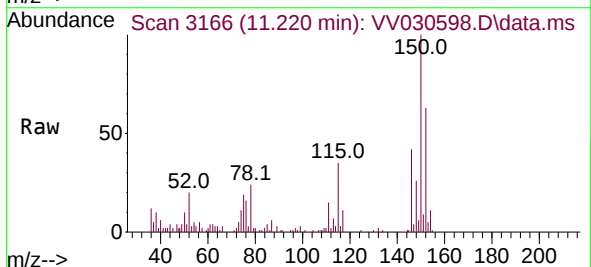
Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:105 Resp: 103739
Ion Ratio Lower Upper
105 100
120 26.6 20.9 31.3
77 17.2 13.0 19.6



#65
1,4-Dichlorobenzene
Concen: 1.529 ug/L
RT: 11.220 min Scan# 3166
Delta R.T. 0.003 min
Lab File: VV030598.D
Acq: 17 Apr 2023 19:00



Tgt Ion:146 Resp: 6960
Ion Ratio Lower Upper
146 100
111 35.8 26.5 49.1
148 62.1 44.7 83.1

