

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092024\
 Data File : VW030176.D
 Acq On : 20 Sep 2024 15:38
 Operator : SY/MD
 Sample : P4024-05
 Misc : 10.14g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 20 23:54:37 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM091624SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Sep 20 23:43:18 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	530503	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	307480	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.555	152	74408	25.000	ug/L	# 0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.368	65	109990	16.055	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	64.200%		
7) Chloroethane-d5	2.899	69	95293	19.702	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	78.800%		
11) 1,1-Dichloroethene-d2	4.021	65	53118	15.518	ug/L	0.00
Spiked Amount 25.000	Range 45 - 110		Recovery =	62.080%		
21) 2-Butanone-d5	7.075	46	81105	48.891	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	97.780%		
24) Chloroform-d	7.648	84	239862	16.444	ug/L	0.00
Spiked Amount 25.000	Range 40 - 150		Recovery =	65.760%		
26) 1,2-Dichloroethane-d4	8.306	65	131492	17.952	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	71.800%		
32) Benzene-d6	8.276	84	493299	27.849	ug/L	0.00
Spiked Amount 25.000	Range 20 - 135		Recovery =	111.400%		
36) 1,2-Dichloropropane-d6	9.270	67	148695	27.188	ug/L	0.00
Spiked Amount 25.000	Range 70 - 120		Recovery =	108.760%		
41) Toluene-d8	10.318	98	369847	23.299	ug/L	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	93.200%		
43) trans-1,3-Dichloroprop...	10.574	79	60737	27.720	ug/L	0.00
Spiked Amount 25.000	Range 30 - 135		Recovery =	110.880%		
47) 2-Hexanone-d5	10.922	63	79569	95.078	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	190.160%#		
56) 1,1,2,2-Tetrachloroeth...	12.702	84	125016	30.703	ug/L	0.01
Spiked Amount 25.000	Range 45 - 120		Recovery =	122.800%#		
66) 1,2-Dichlorobenzene-d4	13.854	152	44268	17.526	ug/L	0.00
Spiked Amount 25.000	Range 75 - 120		Recovery =	70.120%#		
Target Compounds						Qvalue
13) Acetone	4.124	43	411080	215.991	ug/L	96
14) Carbon disulfide	4.386	76	55217	3.069	ug/L	99
20) cis-1,2-Dichloroethene	7.166	96	89188	11.641	ug/L	95
22) 2-Butanone	7.172	43	13917	6.177	ug/L	81
29) Cyclohexane	7.959	56	82562	12.603	ug/L	94
33) Benzene	8.325	78	62678	3.334	ug/L	100
34) Trichloroethene	9.093	95	116641	22.984	ug/L	97
35) Methylcyclohexane	9.337	83	215778	27.580	ug/L	98
40) 4-Methyl-2-pentanone	10.208	43	20689	7.946	ug/L	# 86
42) Toluene	10.385	91	651744	32.672	ug/L	99
45) 1,1,2-Trichloroethane	10.763	97	48761	13.151	ug/L	# 21
46) Tetrachloroethene	10.861	164	735428	196.398	ug/L	92
48) 2-Hexanone	10.934	43	448111	223.817	ug/L	# 44
51) Chlorobenzene	11.653	112	237487	18.432	ug/L	90
52) Ethylbenzene	11.726	91	3114532	136.399	ug/L	98
53) m,p-Xylene	11.836	106	5211195	618.544	ug/L	83
54) o-Xylene	12.159	106	1469329	185.336	ug/L	90
55) Styrene	12.165	104	76953	5.596	ug/L	# 1
57) 1,1,2,2-Tetrachloroethane	12.696	83	29828	6.740	ug/L	# 1

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

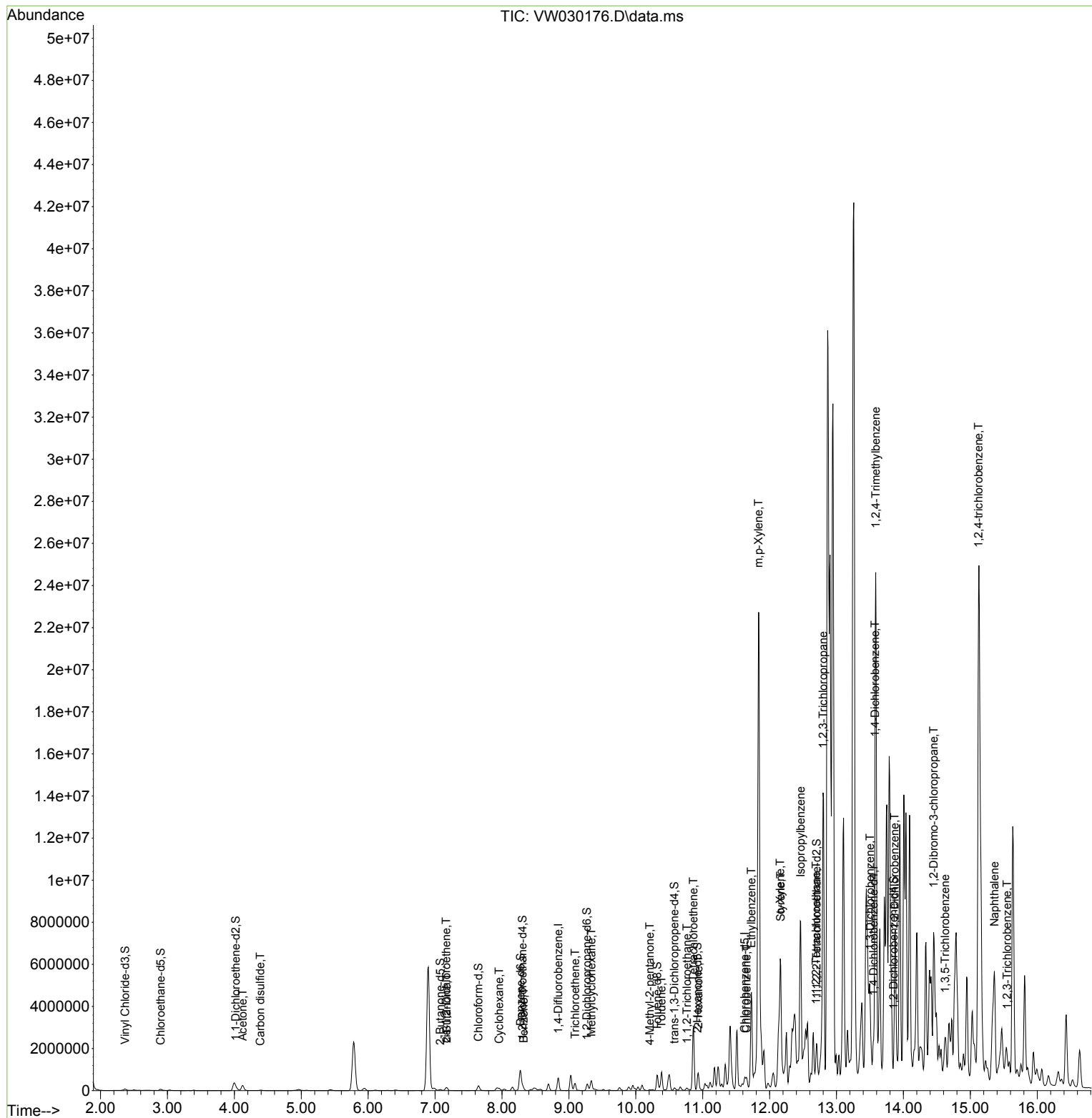
60) Isopropylbenzene	12.464	105	5046190	460.610	ug/L	98
61) 1,2,3-Trichloropropane	12.799	75	70232	45.371	ug/L #	1
63) 1,2,4-Trimethylbenzene	13.586	105	13771434	1649.754	ug/L	96
64) 1,3-Dichlorobenzene	13.501	146	19261	3.967	ug/L #	1
65) 1,4-Dichlorobenzene	13.574	146	89325	17.807	ug/L #	61
67) 1,2-Dichlorobenzene	13.866	146	44164	10.093	ug/L #	47
68) 1,2-Dibromo-3-chloropr...	14.452	75	38206	113.171	ug/L #	13
69) 1,3,5-Trichlorobenzene	14.622	180	29009	8.560	ug/L #	85
70) 1,2,4-trichlorobenzene	15.122	180	28569	10.407	ug/L #	1
71) Naphthalene	15.360	128	2716108	544.832	ug/L #	94
72) 1,2,3-Trichlorobenzene	15.549	180	24652	10.240	ug/L #	1

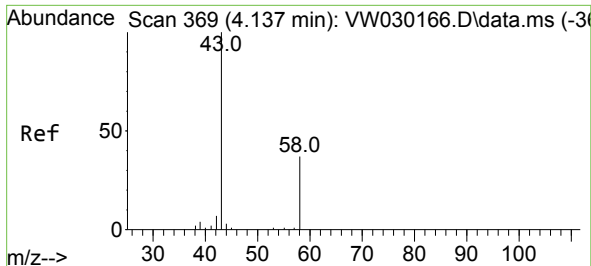
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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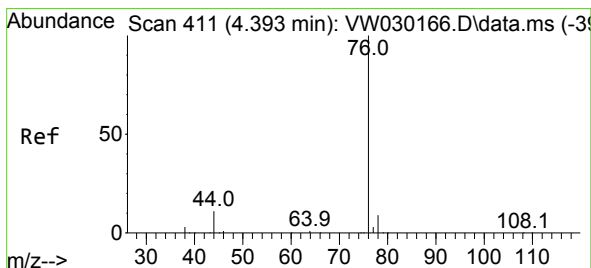
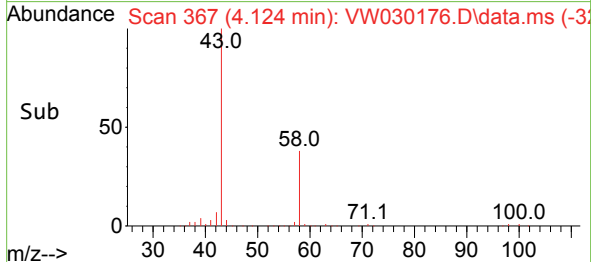
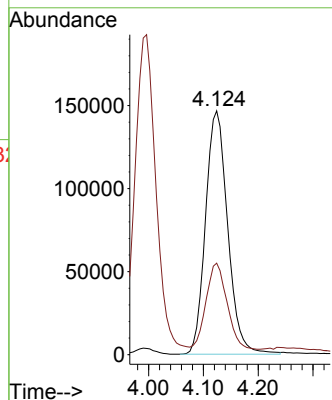
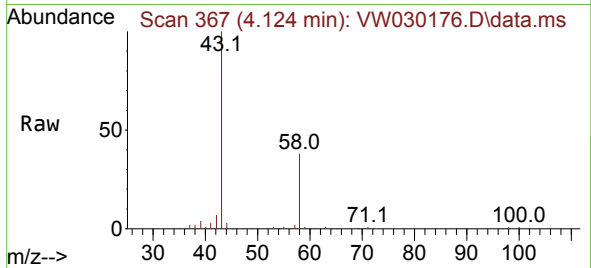




#13
Acetone
Concen: 215.991 ug/L
RT: 4.124 min Scan# 30
Delta R.T. -0.012 min
Lab File: VW030176.D
Acq: 20 Sep 2024 15:38

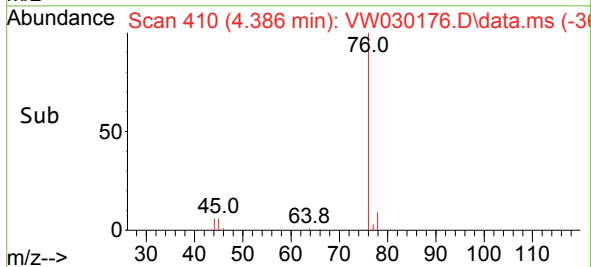
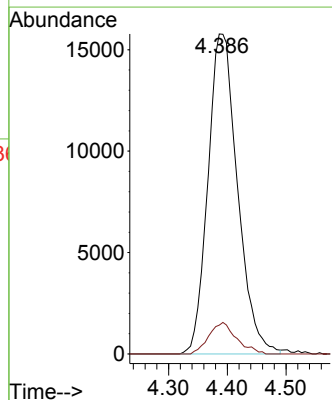
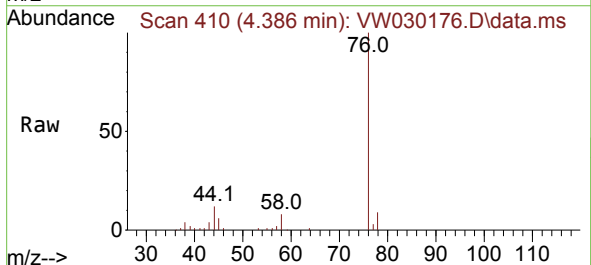
Instrument :
MSVOA_W
ClientSampleId :

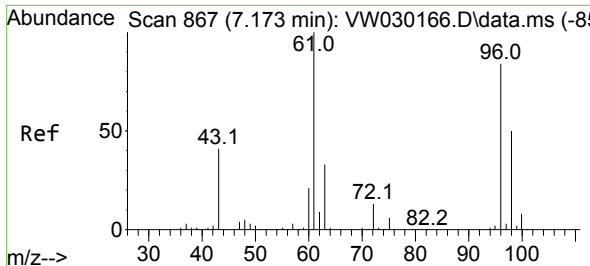
Tgt Ion: 43 Resp: 411080
Ion Ratio Lower Upper
43 100
58 34.7 0.0 65.0



#14
Carbon disulfide
Concen: 3.069 ug/L
RT: 4.386 min Scan# 410
Delta R.T. -0.006 min
Lab File: VW030176.D
Acq: 20 Sep 2024 15:38

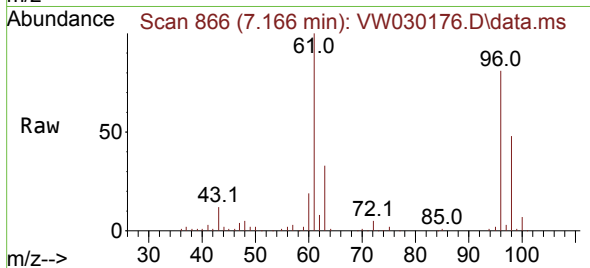
Tgt Ion: 76 Resp: 55217
Ion Ratio Lower Upper
76 100
78 9.0 7.6 11.4





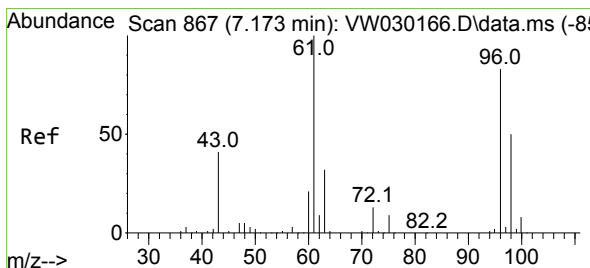
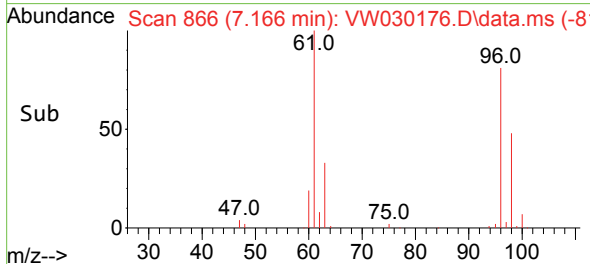
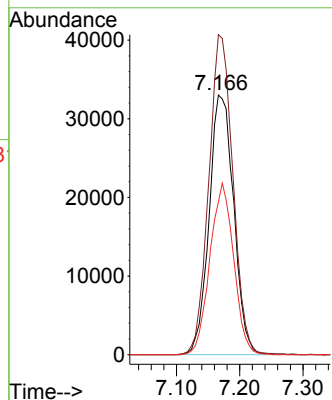
#20
 cis-1,2-Dichloroethene
 Concen: 11.641 ug/L
 RT: 7.166 min Scan# 866
 Delta R.T. -0.006 min
 Lab File: VW030176.D
 Acq: 20 Sep 2024 15:38

Instrument :
 MSVOA_W
 ClientSampleId :



Tgt Ion: 96 Resp: 89188

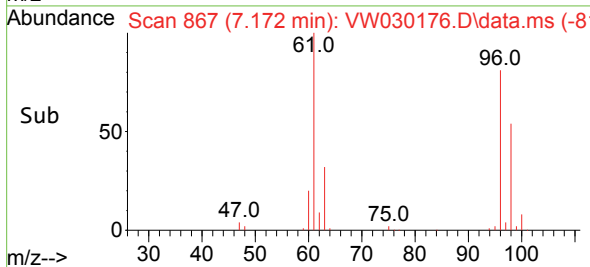
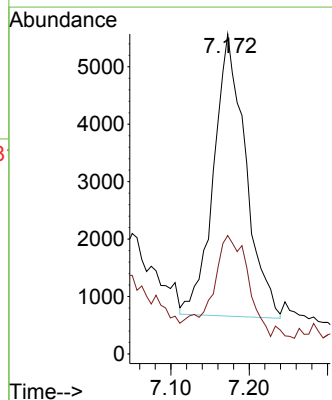
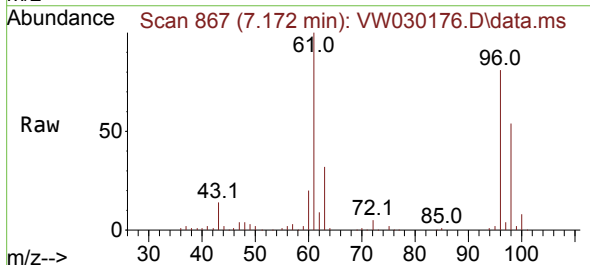
Ion	Ratio	Lower	Upper
96	100		
61	123.3	89.5	166.3
98	58.8	44.3	82.3

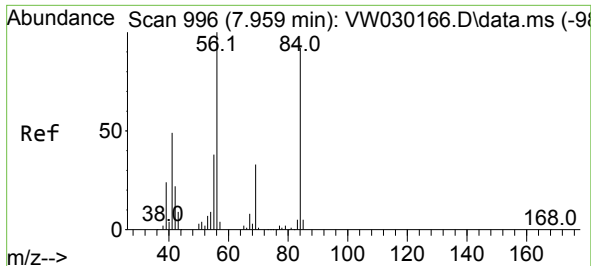


#22
 2-Butanone
 Concen: 6.177 ug/L
 RT: 7.172 min Scan# 867
 Delta R.T. -0.000 min
 Lab File: VW030176.D
 Acq: 20 Sep 2024 15:38

Tgt Ion: 43 Resp: 13917

Ion	Ratio	Lower	Upper
43	100		
72	18.0	13.9	41.7





#29

Cyclohexane

Concen: 12.603 ug/L

RT: 7.959 min Scan# 996

Delta R.T. -0.000 min

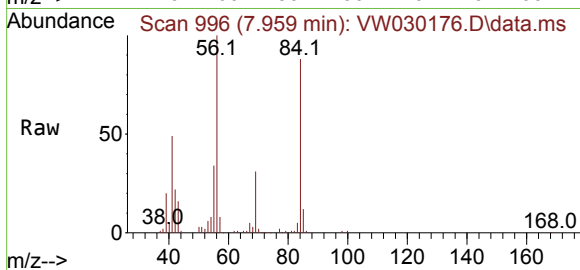
Lab File: VW030176.D

Acq: 20 Sep 2024 15:38

Instrument :

MSVOA_W

ClientSampleId :



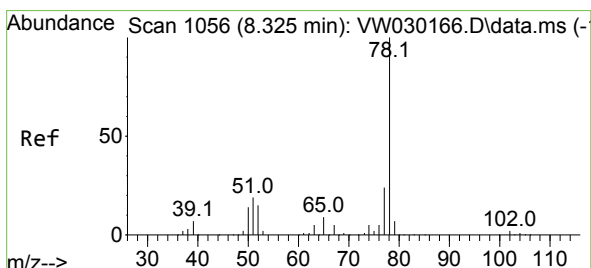
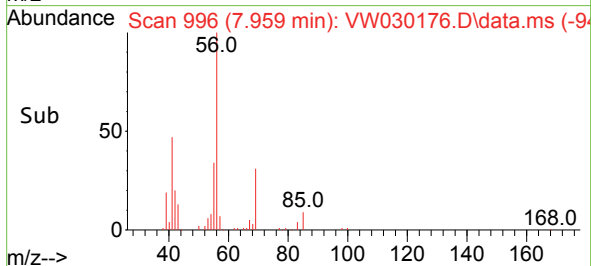
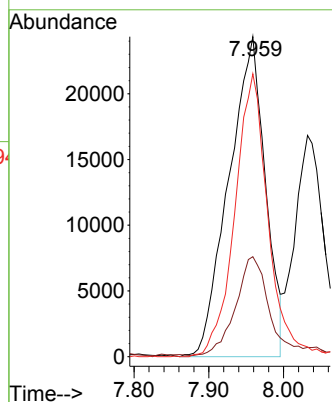
Tgt Ion: 56 Resp: 82562

Ion Ratio Lower Upper

56 100

69 28.0 24.6 37.0

84 80.2 68.9 103.3



#33

Benzene

Concen: 3.334 ug/L

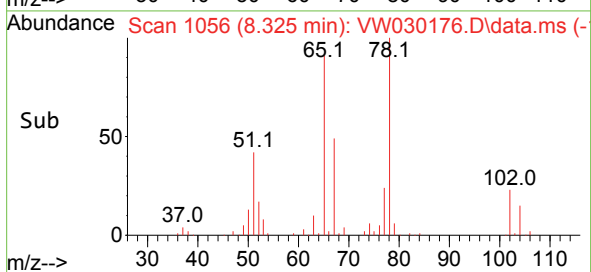
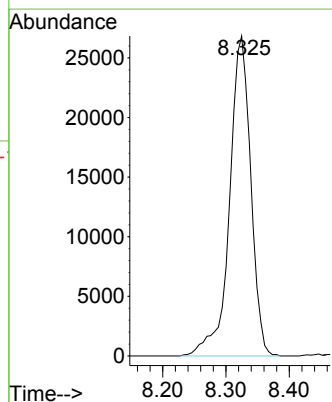
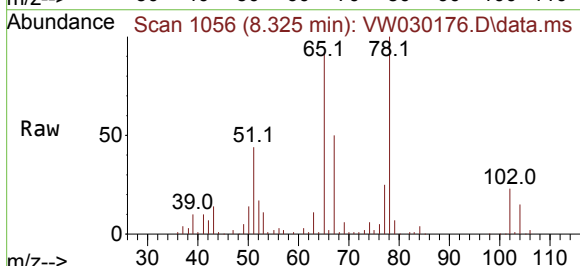
RT: 8.325 min Scan# 1056

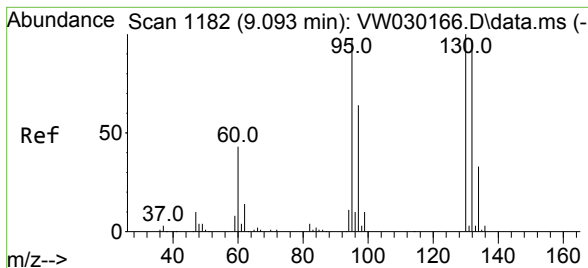
Delta R.T. -0.000 min

Lab File: VW030176.D

Acq: 20 Sep 2024 15:38

Tgt Ion: 78 Resp: 62678





#34

Trichloroethene

Concen: 22.984 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. -0.000 min

Lab File: VW030176.D

Acq: 20 Sep 2024 15:38

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 95 Resp: 116641

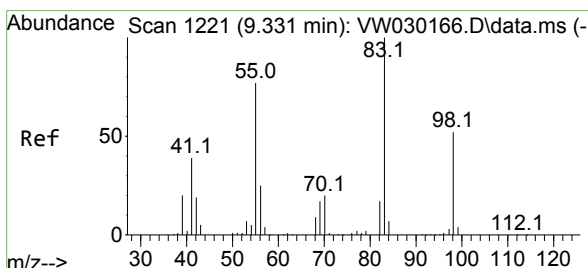
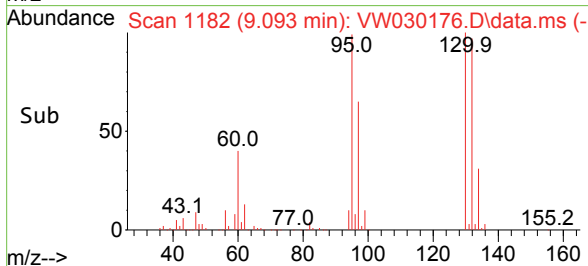
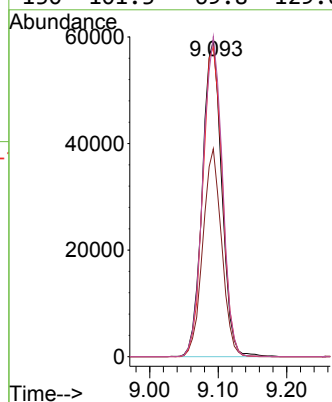
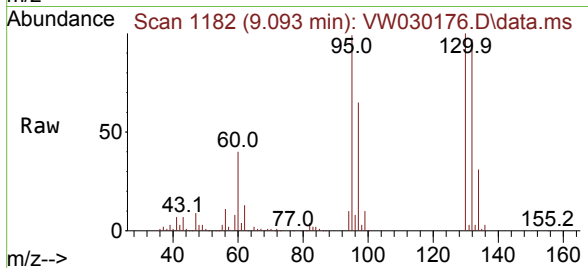
Ion Ratio Lower Upper

95 100

97 65.8 45.2 84.0

132 98.0 64.8 120.3

130 101.3 69.8 129.6



#35

Methylcyclohexane

Concen: 27.580 ug/L

RT: 9.337 min Scan# 1222

Delta R.T. 0.006 min

Lab File: VW030176.D

Acq: 20 Sep 2024 15:38

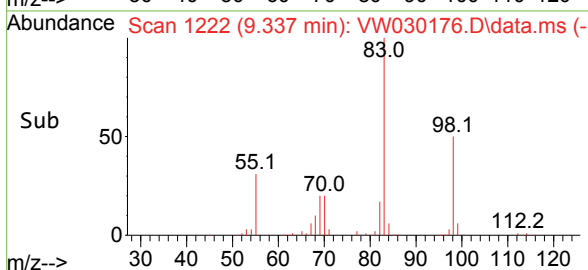
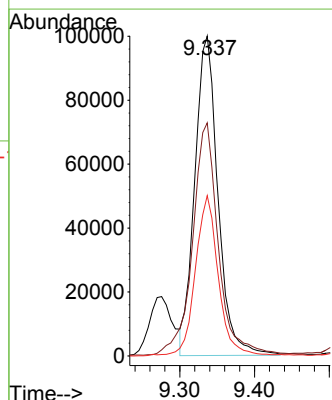
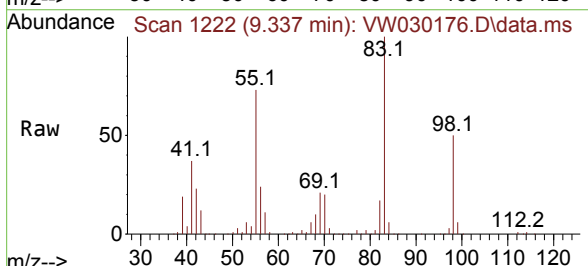
Tgt Ion: 83 Resp: 215778

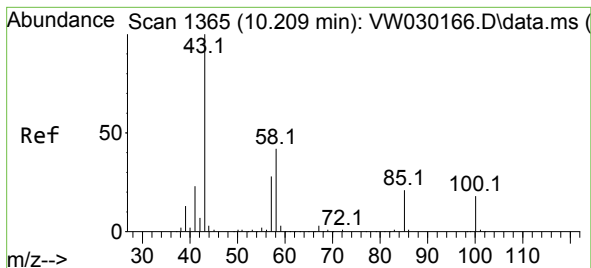
Ion Ratio Lower Upper

83 100

55 80.8 63.0 94.6

98 49.5 38.7 58.1





#40

4-Methyl-2-pentanone

Concen: 7.946 ug/L

RT: 10.208 min Scan# 1

Delta R.T. -0.000 min

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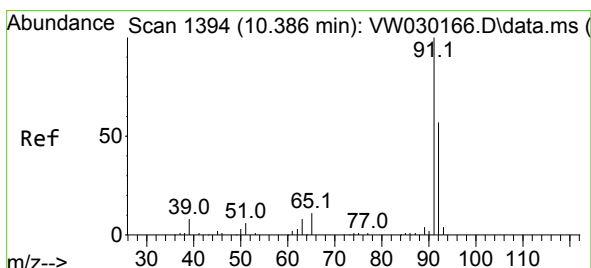
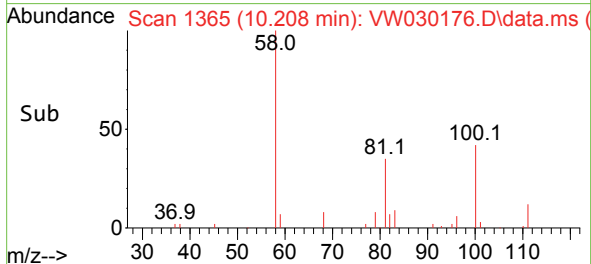
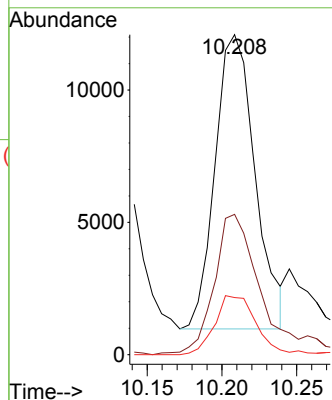
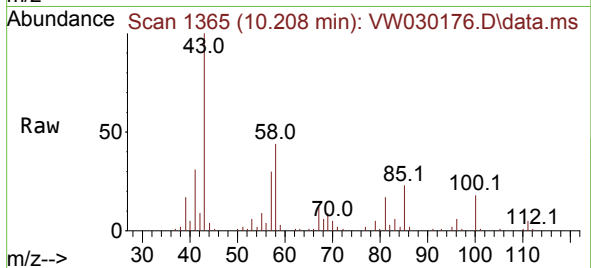
Tgt Ion: 43 Resp: 20689

Ion Ratio Lower Upper

43 100

58 50.7 32.7 49.1#

100 20.4 12.7 19.1#



#42

Toluene

Concen: 32.672 ug/L

RT: 10.385 min Scan# 1394

Delta R.T. -0.000 min

Lab File: VW030176.D

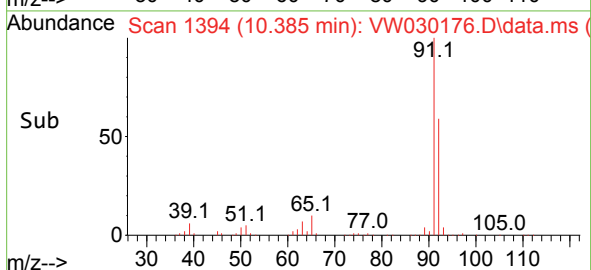
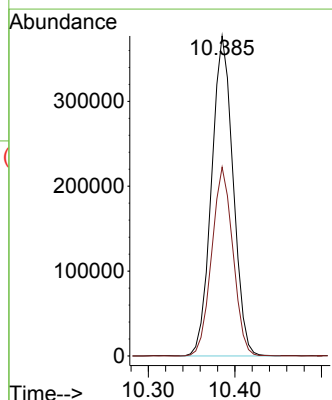
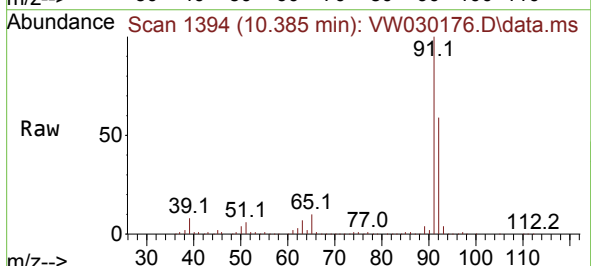
Acq: 20 Sep 2024 15:38

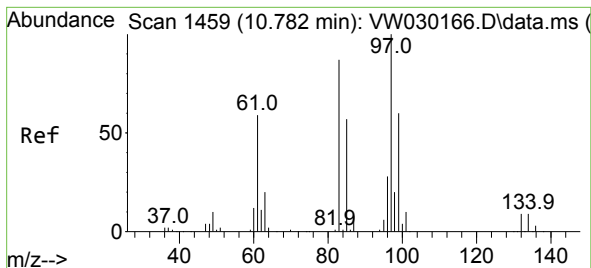
Tgt Ion: 91 Resp: 651744

Ion Ratio Lower Upper

91 100

92 59.0 40.7 75.5





#45

1,1,2-Trichloroethane

Concen: 13.151 ug/L

RT: 10.763 min Scan# 1456

Delta R.T. -0.019 min

Lab File: VW030176.D

Acq: 20 Sep 2024 15:38

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 97 Resp: 48761

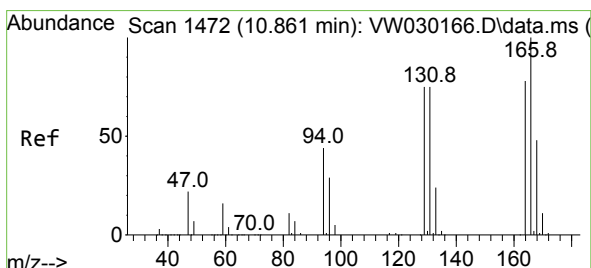
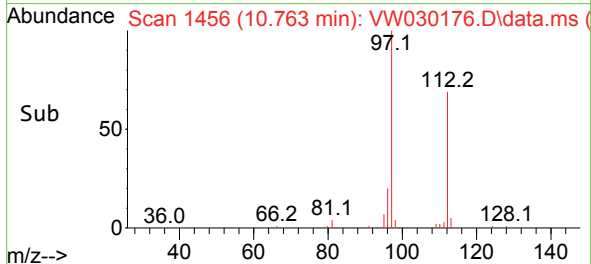
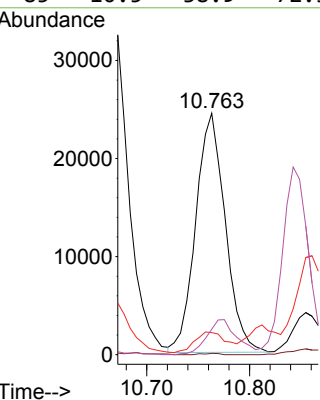
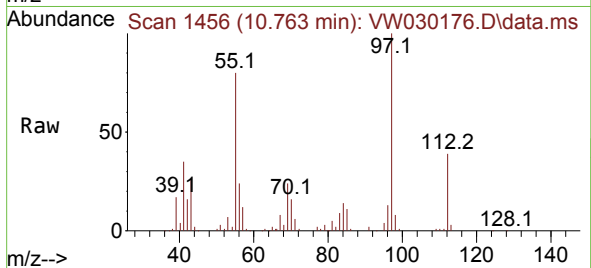
Ion Ratio Lower Upper

97 100

99 0.5 45.6 84.8#

83 9.2 64.0 119.0#

85 10.5 38.9 72.3#



#46

Tetrachloroethene

Concen: 196.398 ug/L

RT: 10.861 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VW030176.D

Acq: 20 Sep 2024 15:38

Tgt Ion:164 Resp: 735428

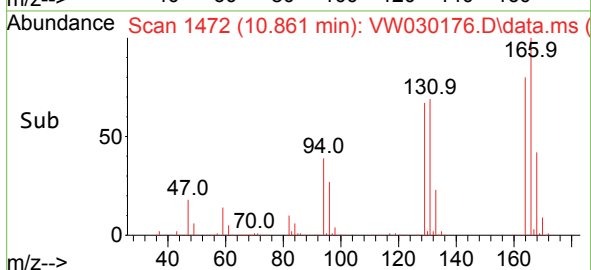
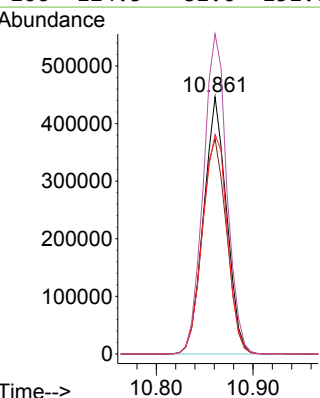
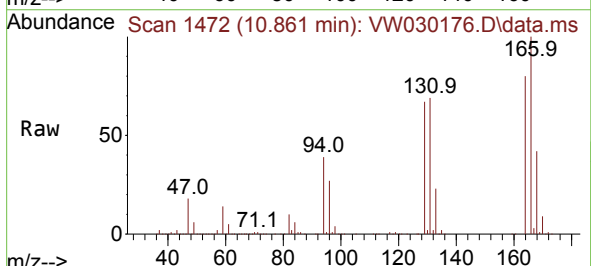
Ion Ratio Lower Upper

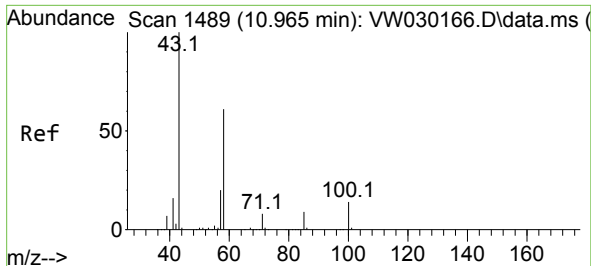
164 100

129 83.7 66.0 122.6

131 85.3 64.8 120.4

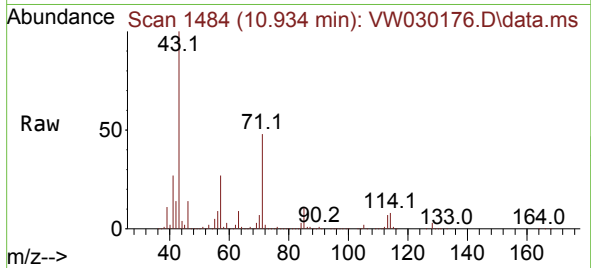
166 124.5 81.6 151.6



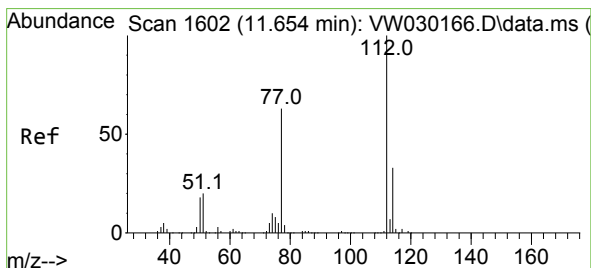
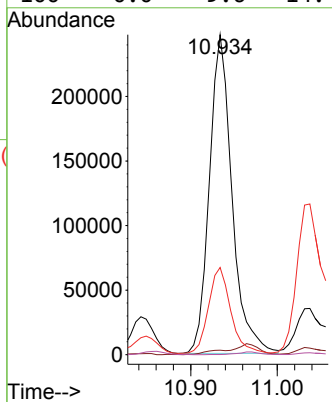
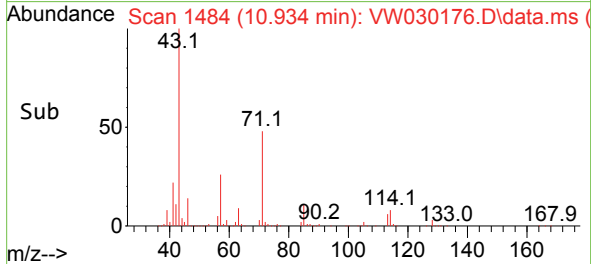


#48
2-Hexanone
Concen: 223.817 ug/L
RT: 10.934 min Scan# 1489
Delta R.T. -0.031 min
Lab File: VW030176.D
Acq: 20 Sep 2024 15:38

Instrument :
MSVOA_W
ClientSampleId :

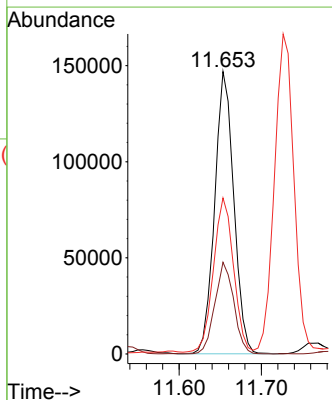
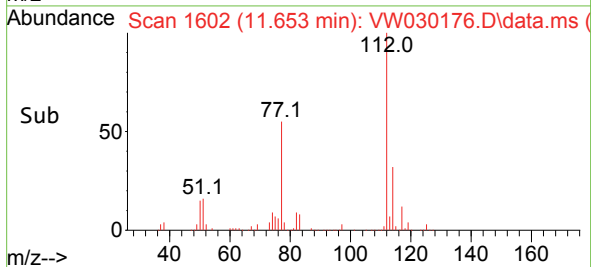
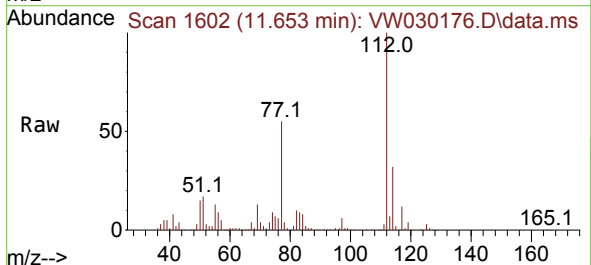


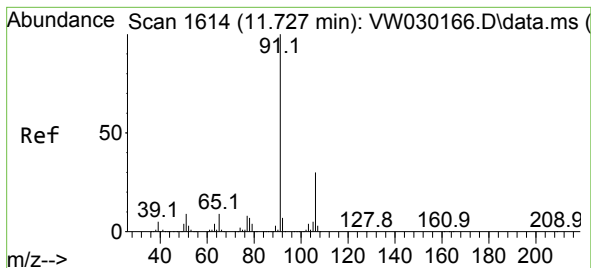
Tgt Ion: 43 Resp: 448111
Ion Ratio Lower Upper
43 100
58 1.3 44.8 67.2#
57 26.3 15.4 23.2#
100 0.0 9.6 14.4#



#51
Chlorobenzene
Concen: 18.432 ug/L
RT: 11.653 min Scan# 1602
Delta R.T. -0.000 min
Lab File: VW030176.D
Acq: 20 Sep 2024 15:38

Tgt Ion:112 Resp: 237487
Ion Ratio Lower Upper
112 100
114 32.5 23.8 44.2
77 55.2 52.9 79.3

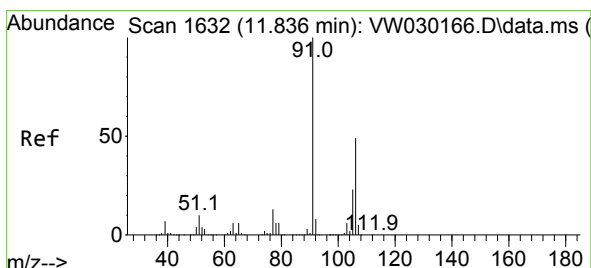
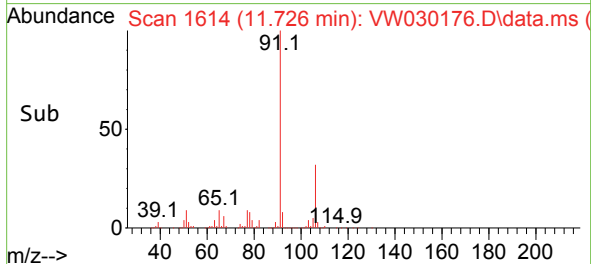
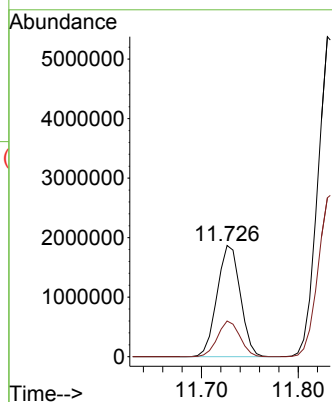
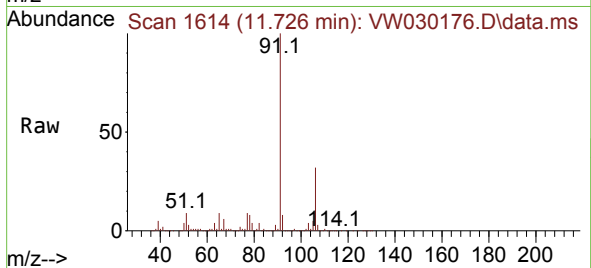




#52
Ethylbenzene
Concen: 136.399 ug/L
RT: 11.726 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW030176.D
Acq: 20 Sep 2024 15:38

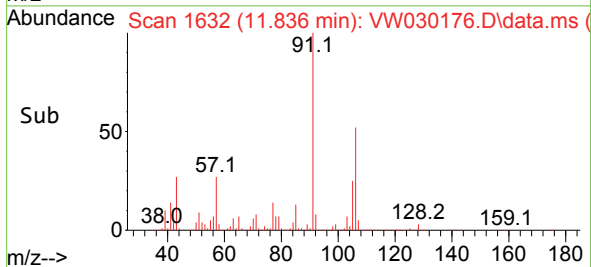
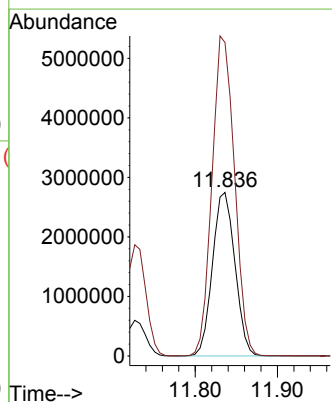
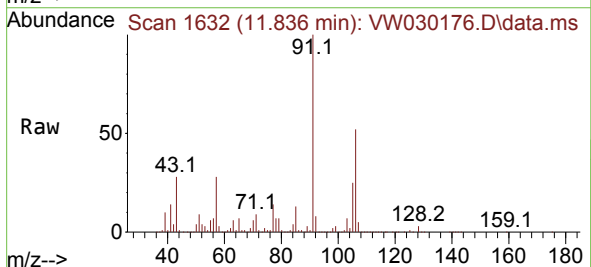
Instrument :
MSVOA_W
ClientSampleId :

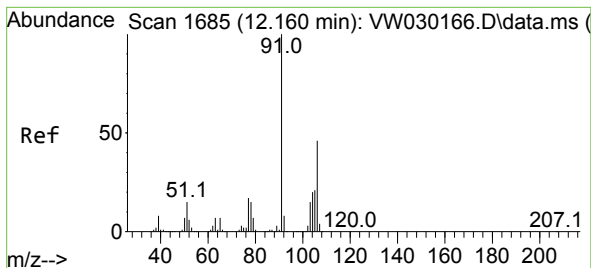
Tgt Ion: 91 Resp: 3114532
Ion Ratio Lower Upper
91 100
106 32.1 21.9 40.7



#53
m,p-Xylene
Concen: 618.544 ug/L
RT: 11.836 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW030176.D
Acq: 20 Sep 2024 15:38

Tgt Ion:106 Resp: 5211195
Ion Ratio Lower Upper
106 100
91 191.6 152.9 283.9





#54

o-Xylene

Concen: 185.336 ug/L

RT: 12.159 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW030176.D

Acq: 20 Sep 2024 15:38

Instrument :

MSVOA_W

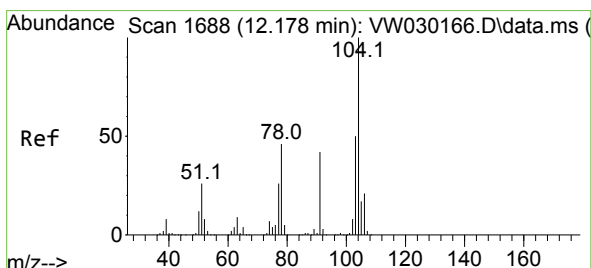
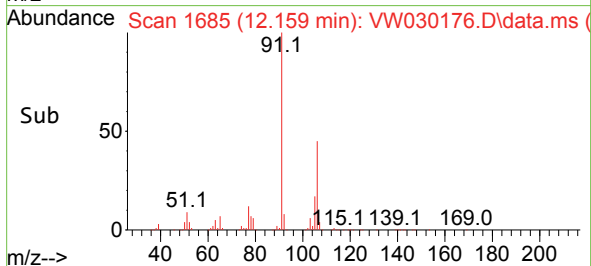
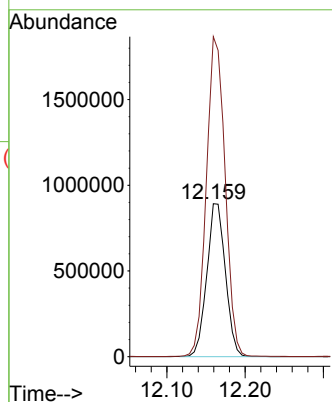
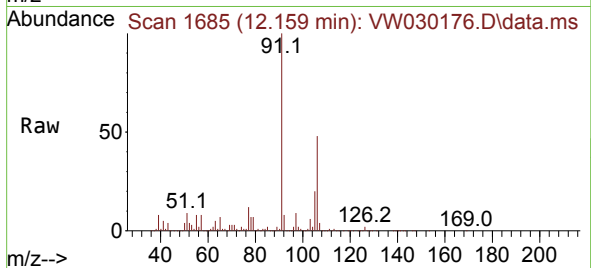
ClientSampleId :

Tgt Ion:106 Resp: 1469329

Ion Ratio Lower Upper

106 100

91 209.1 158.1 293.7



#55

Styrene

Concen: 5.596 ug/L

RT: 12.165 min Scan# 1686

Delta R.T. -0.012 min

Lab File: VW030176.D

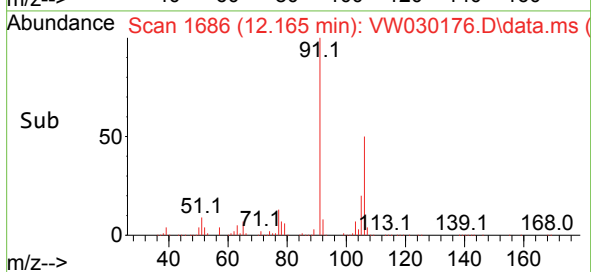
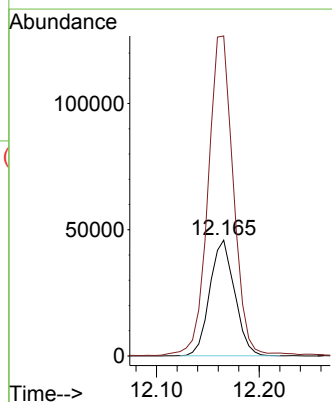
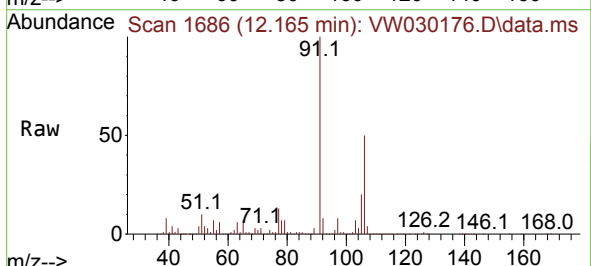
Acq: 20 Sep 2024 15:38

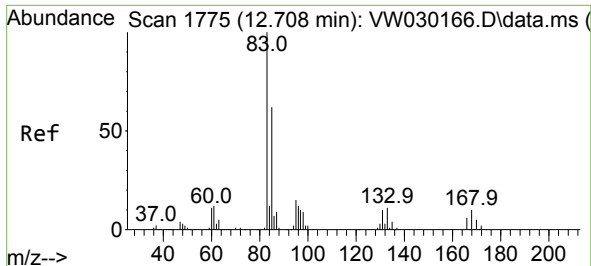
Tgt Ion:104 Resp: 76953

Ion Ratio Lower Upper

104 100

78 276.2 31.4 58.2#





#57

1,1,2,2-Tetrachloroethane

Concen: 6.740 ug/L

RT: 12.696 min Scan# 1

Delta R.T. -0.012 min

Lab File: VW030176.D

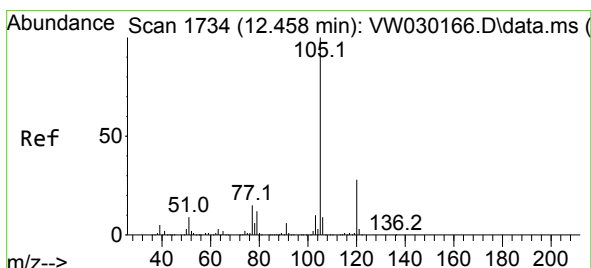
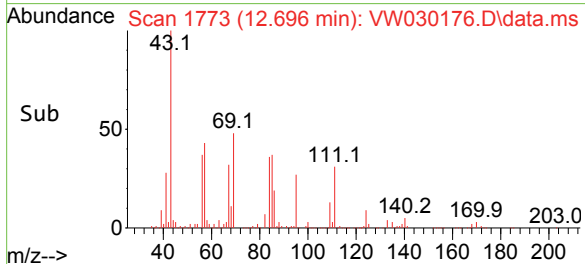
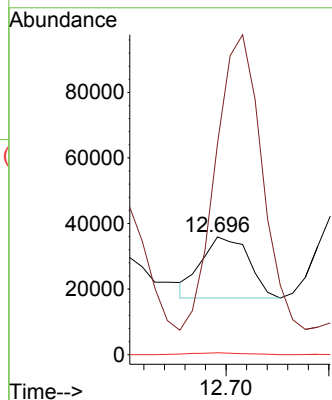
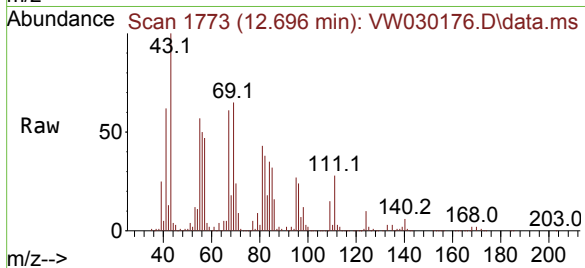
Acq: 20 Sep 2024 15:38

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	83	Resp:	29828
Ion Ratio	Lower	Upper	
83	100		
85	179.0	44.5	82.7#
131	1.6	7.4	11.2#



#60

Isopropylbenzene

Concen: 460.610 ug/L

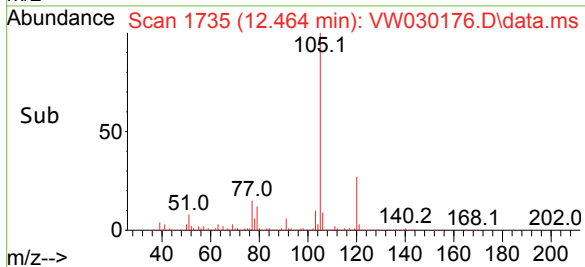
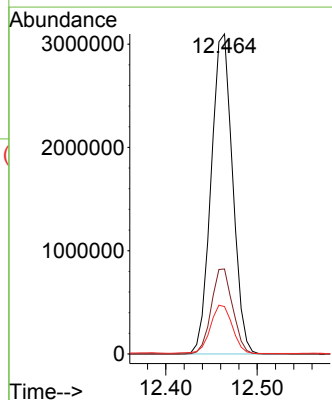
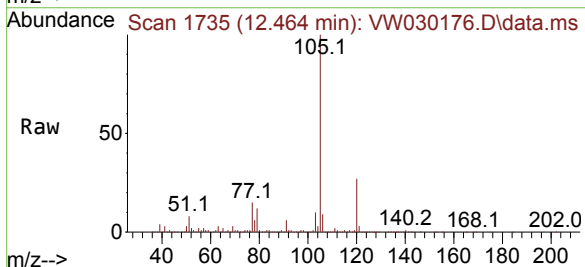
RT: 12.464 min Scan# 1735

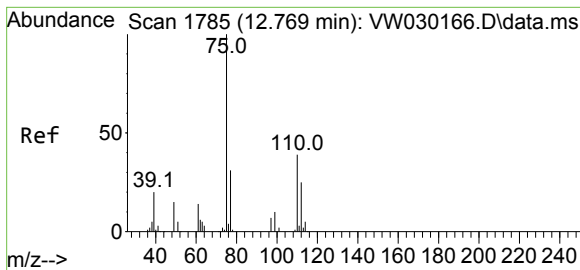
Delta R.T. 0.006 min

Lab File: VW030176.D

Acq: 20 Sep 2024 15:38

Tgt Ion:	105	Resp:	5046190
Ion Ratio	Lower	Upper	
105	100		
120	26.5	20.2	30.2
77	15.5	13.0	19.4

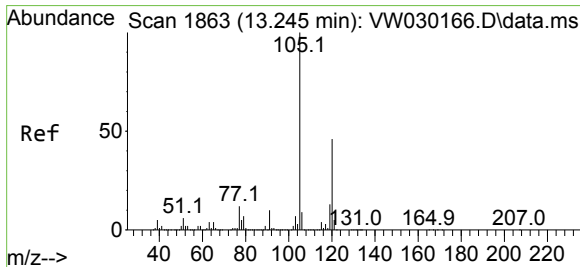
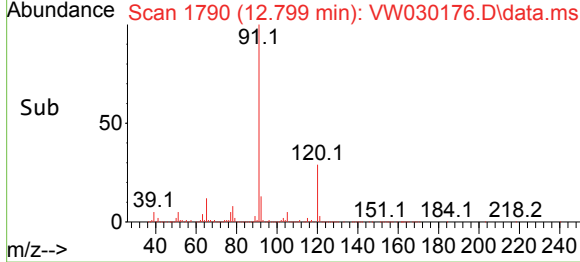
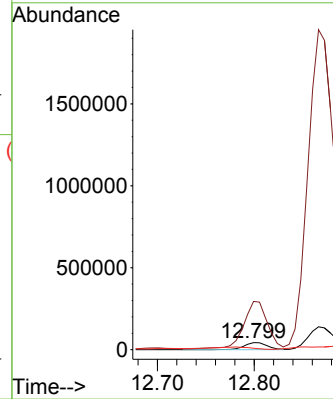
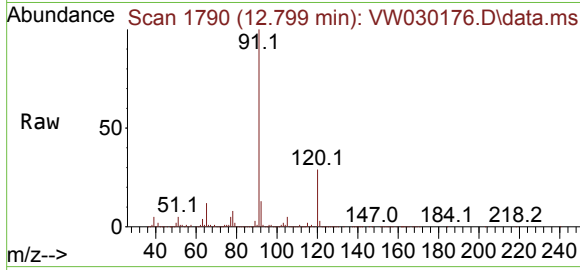




#61
1,2,3-Trichloropropane
Concen: 45.371 ug/L
RT: 12.799 min Scan# 1
Delta R.T. 0.030 min
Lab File: VW030176.D
Acq: 20 Sep 2024 15:38

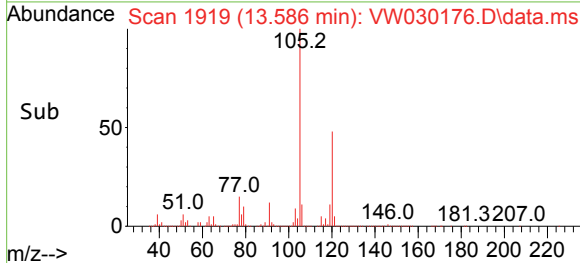
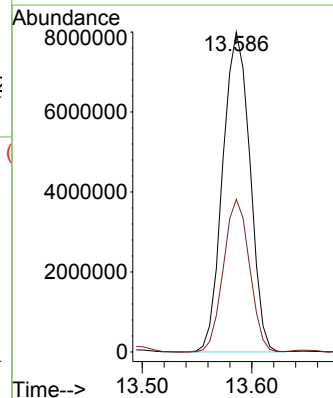
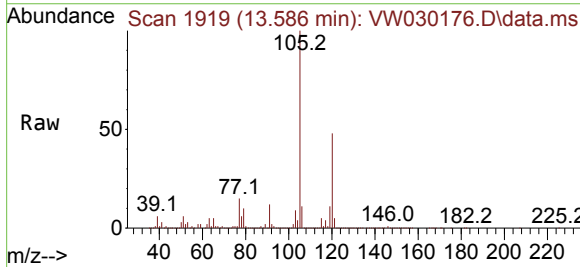
Instrument :
MSVOA_W
ClientSampleId :

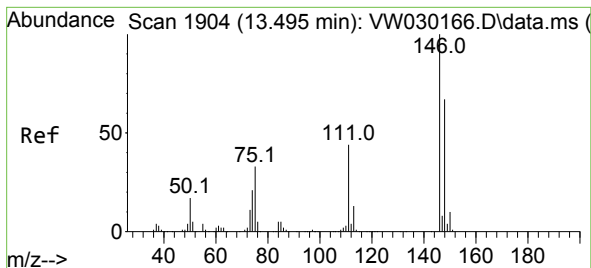
Tgt Ion: 75 Resp: 70232
Ion Ratio Lower Upper
75 100
77 697.4 26.2 39.2#
110 58.5 29.7 44.5#



#63
1,2,4-Trimethylbenzene
Concen: 1649.754 ug/L
RT: 13.586 min Scan# 1919
Delta R.T. 0.341 min
Lab File: VW030176.D
Acq: 20 Sep 2024 15:38

Tgt Ion:105 Resp:13771434
Ion Ratio Lower Upper
105 100
120 45.9 34.8 52.2





#64

1,3-Dichlorobenzene

Concen: 3.967 ug/L

RT: 13.501 min Scan# 1905

Delta R.T. 0.006 min

Lab File: VW030176.D

Acq: 20 Sep 2024 15:38

Instrument :

MSVOA_W

ClientSampleId :

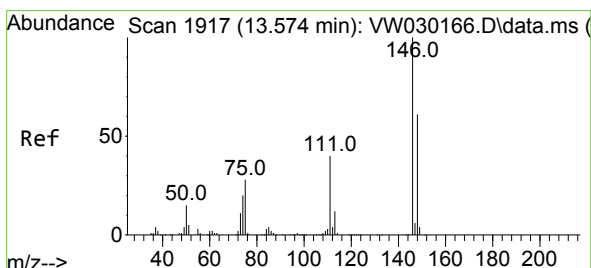
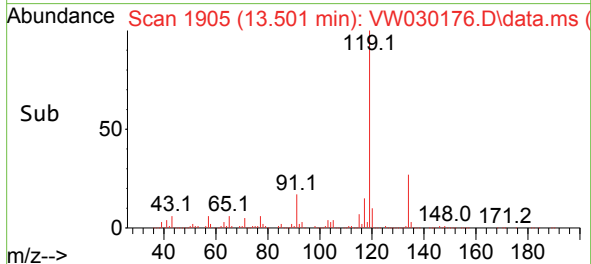
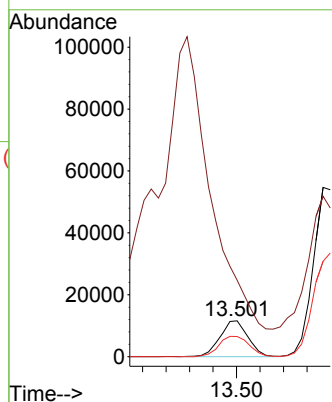
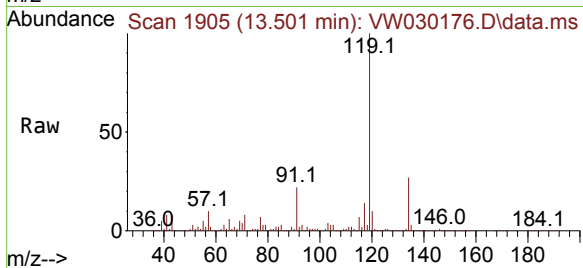
Tgt Ion:146 Resp: 19261

Ion Ratio Lower Upper

146 100

111 213.4 31.9 59.3#

148 56.3 47.7 88.5



#65

1,4-Dichlorobenzene

Concen: 17.807 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. -0.000 min

Lab File: VW030176.D

Acq: 20 Sep 2024 15:38

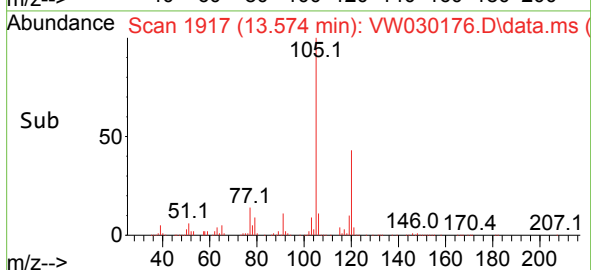
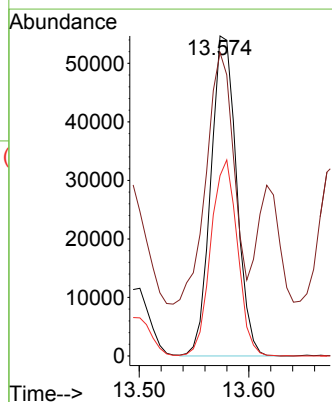
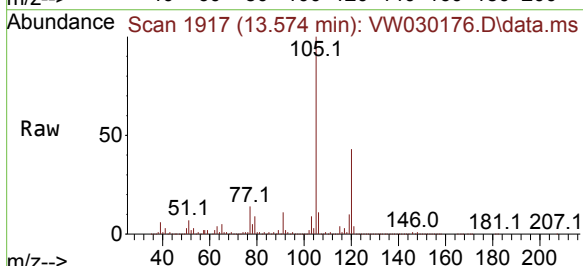
Tgt Ion:146 Resp: 89325

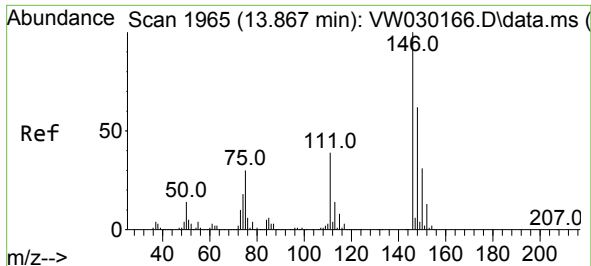
Ion Ratio Lower Upper

146 100

111 94.8 29.5 54.7#

148 56.4 44.4 82.5





#67

1,2-Dichlorobenzene

Concen: 10.093 ug/L

RT: 13.866 min Scan# 1965

Delta R.T. -0.000 min

Lab File: VW030176.D

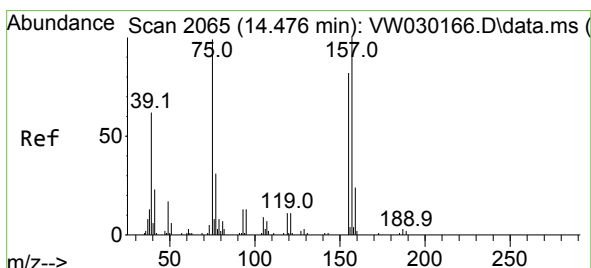
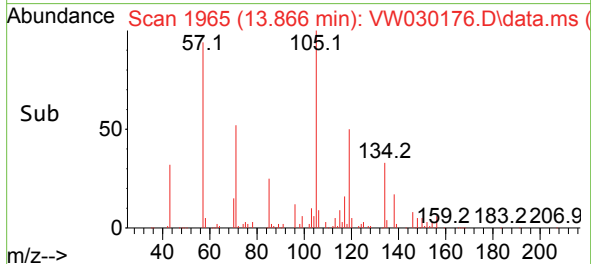
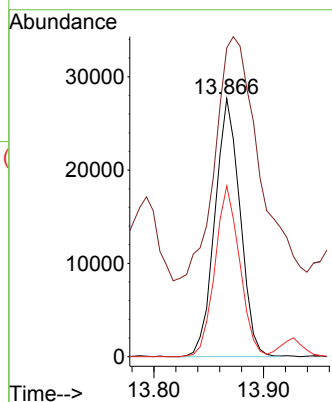
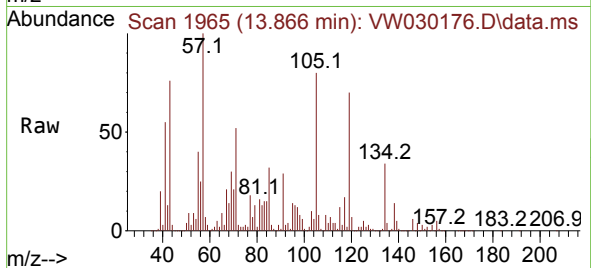
Acq: 20 Sep 2024 15:38

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:146	Resp:	44164
Ion Ratio	Lower	Upper
146	100	
111	119.6	32.7 49.1#
148	66.1	49.8 74.6



#68

1,2-Dibromo-3-chloropropane

Concen: 113.171 ug/L

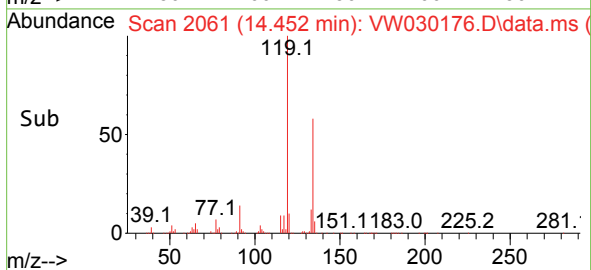
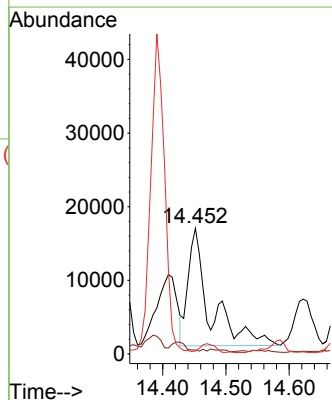
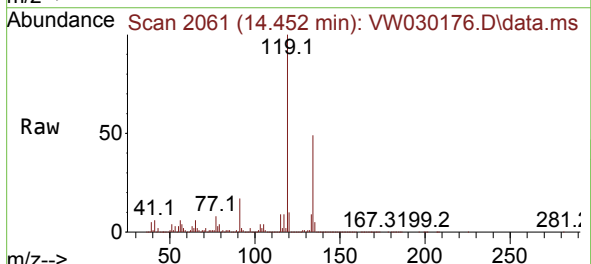
RT: 14.452 min Scan# 2061

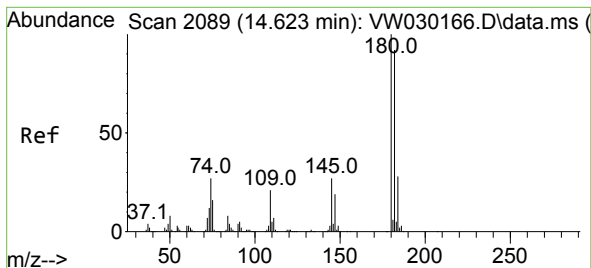
Delta R.T. -0.025 min

Lab File: VW030176.D

Acq: 20 Sep 2024 15:38

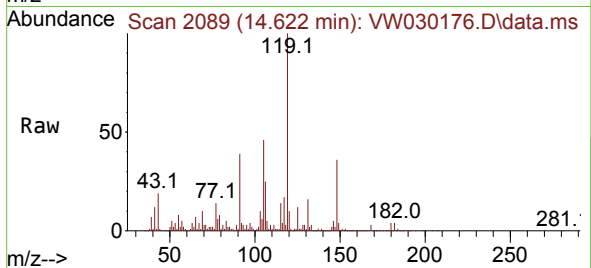
Tgt Ion: 75	Resp:	38206
Ion Ratio	Lower	Upper
75	100	
155	3.1	60.5 90.7#
157	2.3	66.9 100.3#



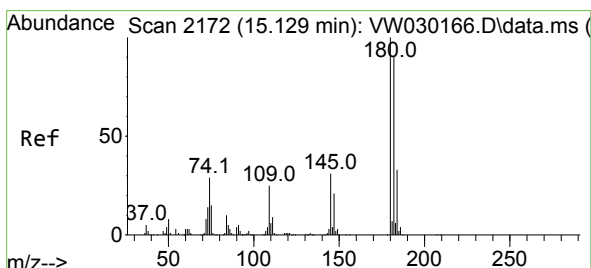
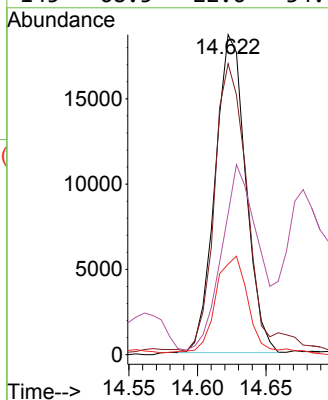
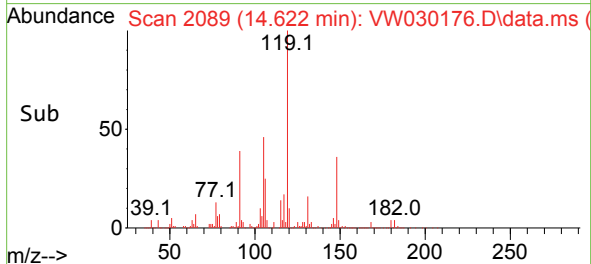


#69
 1,3,5-Trichlorobenzene
 Concen: 8.560 ug/L
 RT: 14.622 min Scan# 2089
 Delta R.T. -0.000 min
 Lab File: VW030176.D
 Acq: 20 Sep 2024 15:38

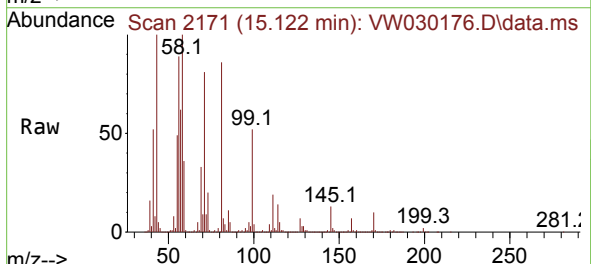
Instrument :
 MSVOA_W
 ClientSampleId :



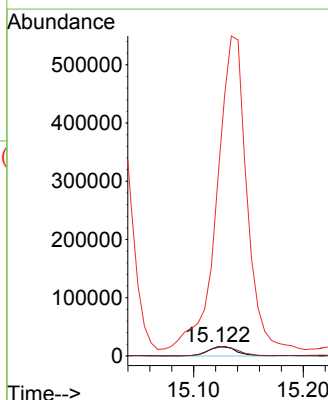
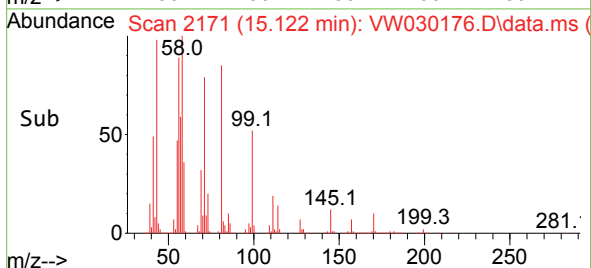
Tgt Ion:180 Resp: 29009
 Ion Ratio Lower Upper
 180 100
 182 93.5 75.5 113.3
 184 29.9 23.4 35.0
 145 68.5 22.6 34.0#

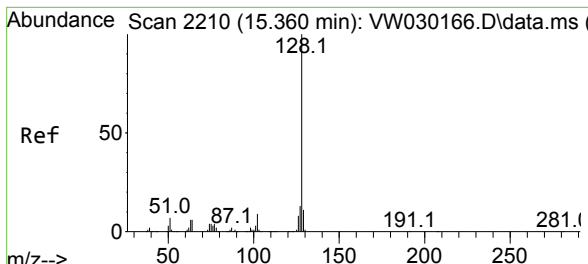


#70
 1,2,4-trichlorobenzene
 Concen: 10.407 ug/L
 RT: 15.122 min Scan# 2171
 Delta R.T. -0.006 min
 Lab File: VW030176.D
 Acq: 20 Sep 2024 15:38



Tgt Ion:180 Resp: 28569
 Ion Ratio Lower Upper
 180 100
 182 104.2 73.4 110.2
 145 3564.9 24.0 36.0#



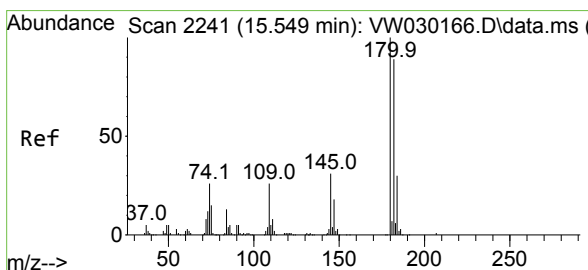
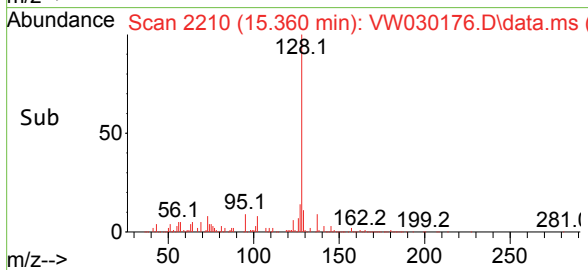
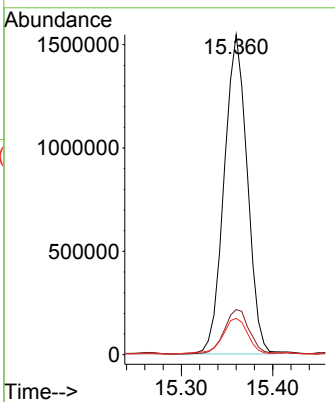
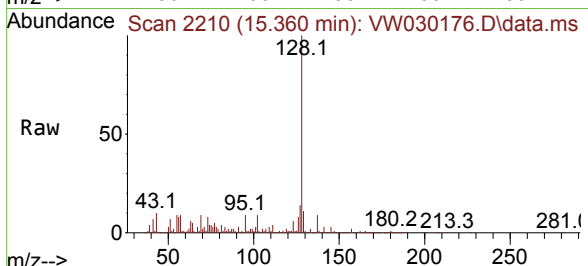


#71
Naphthalene
Concen: 544.832 ug/L
RT: 15.360 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW030176.D
Acq: 20 Sep 2024 15:38

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion:128 Resp: 2716108

Ion	Ratio	Lower	Upper
128	100		
127	15.2	10.1	15.1#
129	12.1	8.4	12.6



#72
1,2,3-Trichlorobenzene
Concen: 10.240 ug/L
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW030176.D
Acq: 20 Sep 2024 15:38

Tgt Ion:180 Resp: 24652

Ion	Ratio	Lower	Upper
180	100		
182	35.9	76.4	114.6#
145	596.3	26.2	39.4#

