

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW091923\
 Data File : VW027152.D
 Acq On : 19 Sep 2023 17:03
 Operator : SY/MD
 Sample : 04472-21
 Misc : 5.73g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 20 01:38:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM091823SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Sep 20 01:34:37 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	20781	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.635	117	14941	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.550	152	5946	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.399	65	239	0.715	ug/L	0.03
Spiked Amount	25.000	Range	30 - 150	Recovery	=	2.840%#
7) Chloroethane-d5	2.899	69	7736	29.961	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	119.840%
11) 1,1-Dichloroethene-d2	4.027	65	4323	30.157	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	120.640%#
21) 2-Butanone-d5	7.100	46	1644	26.554	ug/L	0.02
Spiked Amount	50.000	Range	20 - 135	Recovery	=	53.100%
24) Chloroform-d	7.654	84	16502	26.432	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	105.720%
26) 1,2-Dichloroethane-d4	8.307	65	7169	23.533	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	94.120%
32) Benzene-d6	8.276	84	30094	31.189	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	124.760%
36) 1,2-Dichloropropane-d6	9.270	67	9545	34.960	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	139.840%#
41) Toluene-d8	10.325	98	20783	24.201	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	96.800%
43) trans-1,3-Dichloroprop...	10.404	79	176	1.595	ug/L	-0.17
Spiked Amount	25.000	Range	30 - 135	Recovery	=	6.400%#
47) 2-Hexanone-d5	10.904	63	159	4.833	ug/L	-0.02
Spiked Amount	50.000	Range	20 - 135	Recovery	=	9.660%#
56) 1,1,2,2-Tetrachloroeth...	12.690	84	8226	37.602	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	150.400%#
66) 1,2-Dichlorobenzene-d4	14.092	152	67	0.316	ug/L	0.24
Spiked Amount	25.000	Range	75 - 120	Recovery	=	1.280%#
Target Compounds						
					Qvalue	
3) Chloromethane	2.308	50	448	1.766	ug/L	98
13) Acetone	4.125	43	1708	29.202	ug/L	80
14) Carbon disulfide	4.393	76	14564	14.415	ug/L #	94
15) Methyl Acetate	4.844	43	322	2.790	ug/L	99
16) Methylene chloride	4.905	84	1346	3.404	ug/L	90
18) Methyl tert-butyl Ether	5.423	73	263	0.602	ug/L #	11
29) Cyclohexane	7.959	56	434	1.214	ug/L #	78
33) Benzene	8.325	78	1080	1.094	ug/L	100
34) Trichloroethene	9.093	95	281	1.077	ug/L #	69
35) Methylcyclohexane	9.337	83	7002	15.740	ug/L #	77
40) 4-Methyl-2-pentanone	10.209	43	194	1.765	ug/L #	40
42) Toluene	10.392	91	4775	4.579	ug/L	88
45) 1,1,2-Trichloroethane	10.758	97	4262	22.602	ug/L #	26
49) Dibromochloromethane	11.209	129	286	1.449	ug/L	85
50) 1,2-Dibromoethane	11.227	107	263	1.520	ug/L #	1
52) Ethylbenzene	11.733	91	20582	17.997	ug/L	92
53) m,p-Xylene	11.831	106	43691	99.616	ug/L	98
54) o-Xylene	12.166	106	36665	87.752	ug/L	100
55) Styrene	12.172	104	2795	3.904	ug/L #	1

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

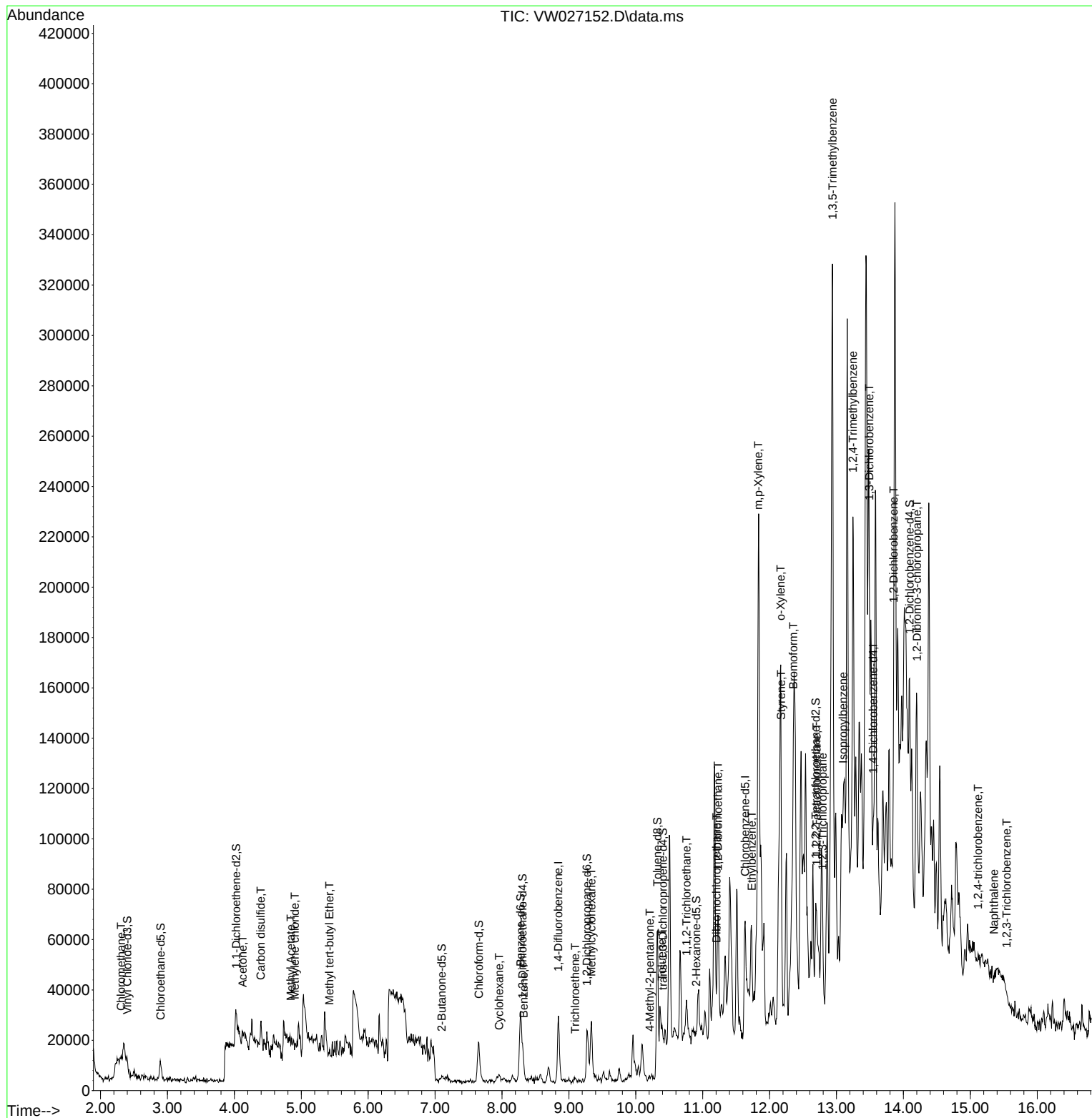
57) 1,1,2,2-Tetrachloroethane	12.702	83	264	1.195	ug/L #	54
59) Bromoform	12.355	173	78	0.906	ug/L #	61
60) Isopropylbenzene	13.099	105	26298	33.012	ug/L	96
61) 1,2,3-Trichloropropane	12.794	75	113	1.019	ug/L #	1
62) 1,3,5-Trimethylbenzene	12.940	105	75303	118.120	ug/L	93
63) 1,2,4-Trimethylbenzene	13.245	105	77495	125.457	ug/L	99
64) 1,3-Dichlorobenzene	13.489	146	308	0.818	ug/L #	1
67) 1,2-Dichlorobenzene	13.855	146	306	0.889	ug/L #	1
68) 1,2-Dibromo-3-chloropr...	14.202	75	1659	67.556	ug/L #	22
70) 1,2,4-trichlorobenzene	15.116	180	132	0.614	ug/L #	1
71) Naphthalene	15.354	128	695	1.944	ug/L #	65
72) 1,2,3-Trichlorobenzene	15.543	180	110	0.567	ug/L #	1

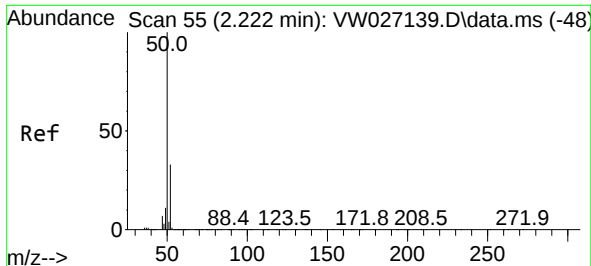
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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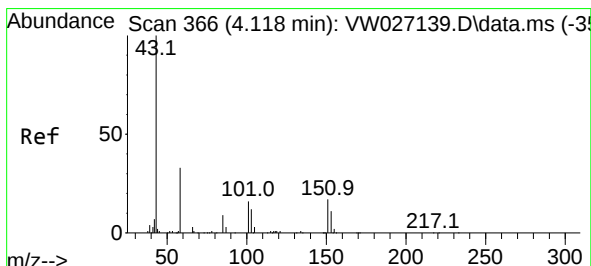
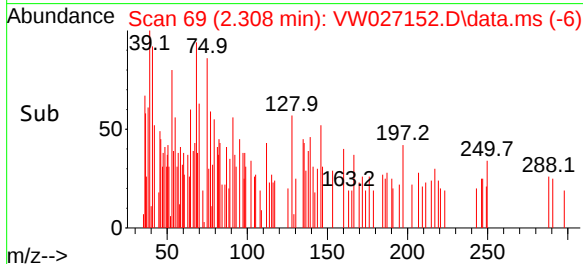
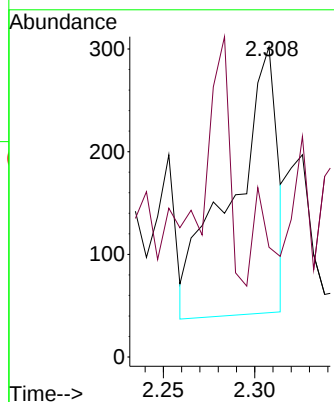
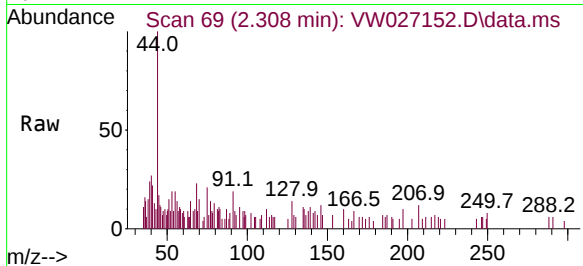




#3
Chloromethane
Concen: 1.766 ug/L
RT: 2.308 min Scan# 61
Delta R.T. 0.085 min
Lab File: VW027152.D
Acq: 19 Sep 2023 17:03

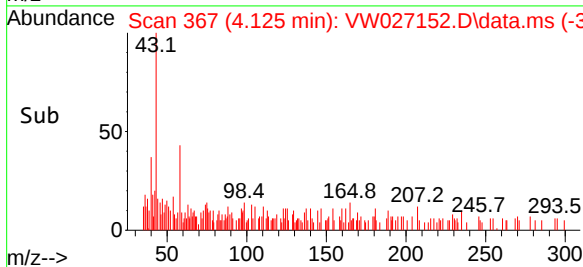
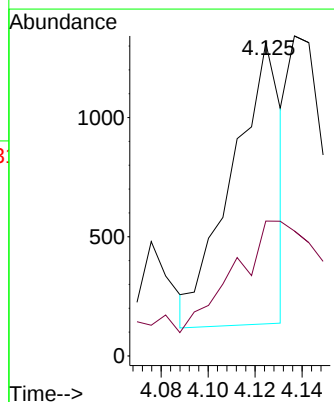
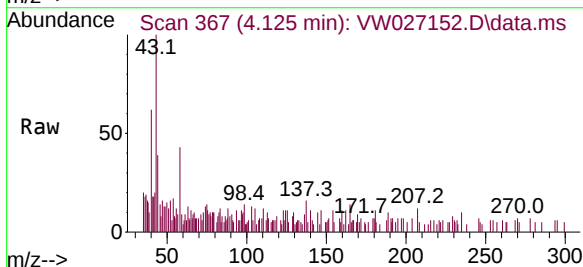
Instrument :
MSVOA_W
ClientSampleId :

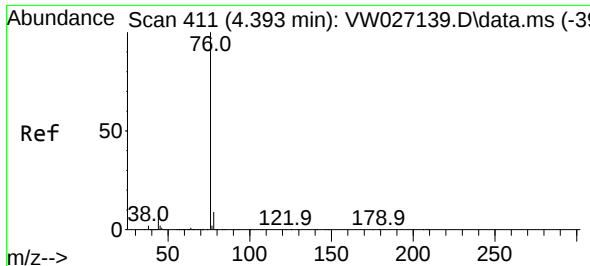
Tgt Ion: 50 Resp: 448
Ion Ratio Lower Upper
50 100
52 35.4 23.8 44.2



#13
Acetone
Concen: 29.202 ug/L
RT: 4.125 min Scan# 367
Delta R.T. 0.006 min
Lab File: VW027152.D
Acq: 19 Sep 2023 17:03

Tgt Ion: 43 Resp: 1708
Ion Ratio Lower Upper
43 100
58 51.0 0.0 77.4

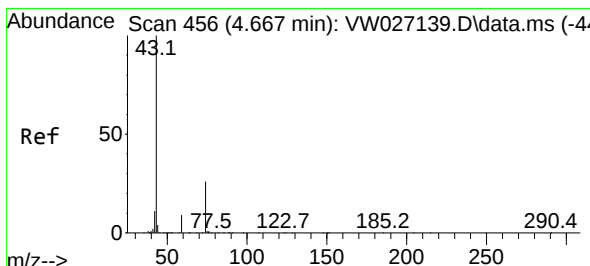
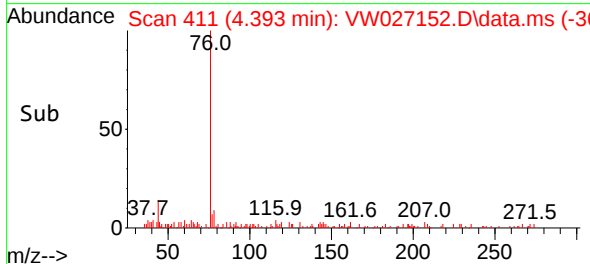
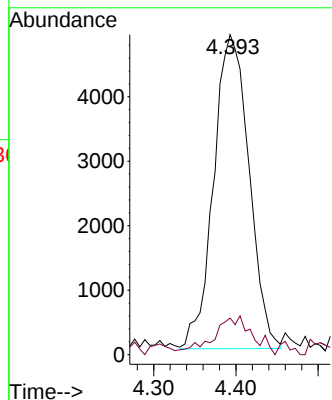
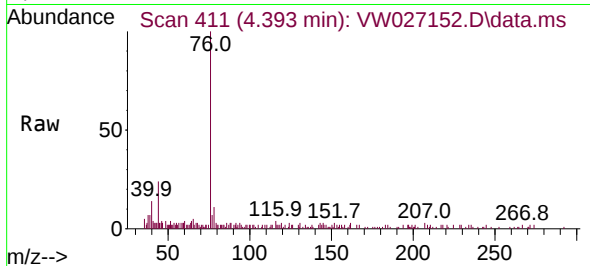




#14
Carbon disulfide
Concen: 14.415 ug/L
RT: 4.393 min Scan# 411
Delta R.T. 0.000 min
Lab File: VW027152.D
Acq: 19 Sep 2023 17:03

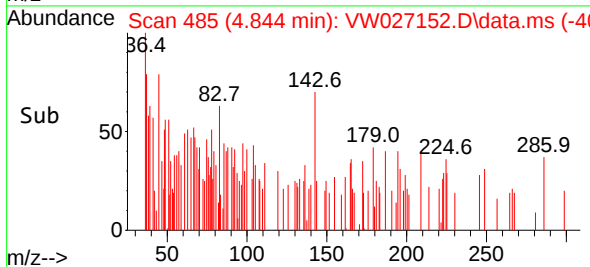
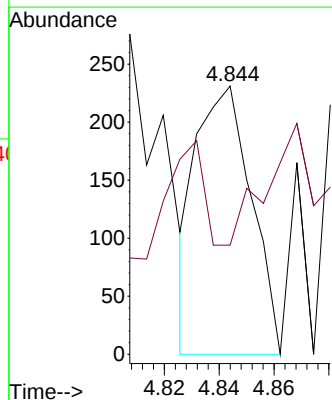
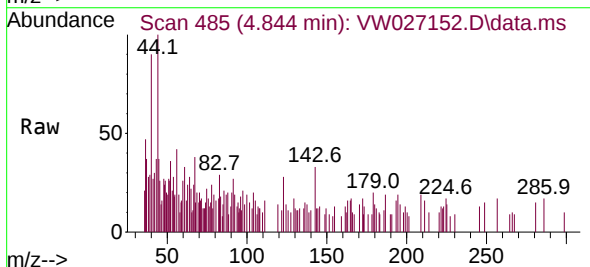
Instrument :
MSVOA_W
ClientSampleId :

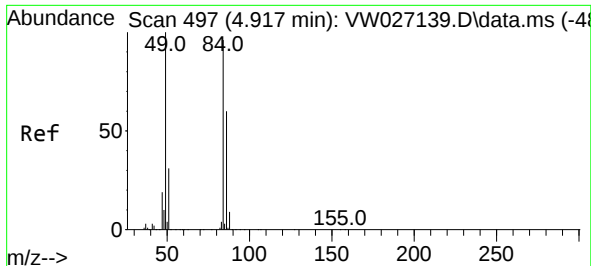
Tgt Ion: 76 Resp: 14564
Ion Ratio Lower Upper
76 100
78 11.5 7.5 11.3#



#15
Methyl Acetate
Concen: 2.790 ug/L
RT: 4.844 min Scan# 485
Delta R.T. 0.177 min
Lab File: VW027152.D
Acq: 19 Sep 2023 17:03

Tgt Ion: 43 Resp: 322
Ion Ratio Lower Upper
43 100
74 28.3 23.2 34.8

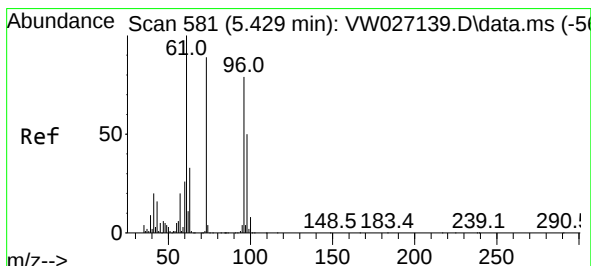
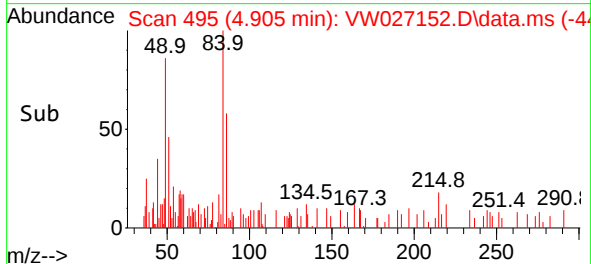
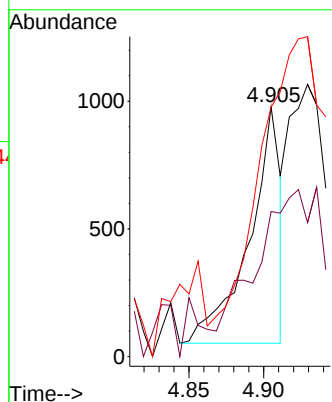
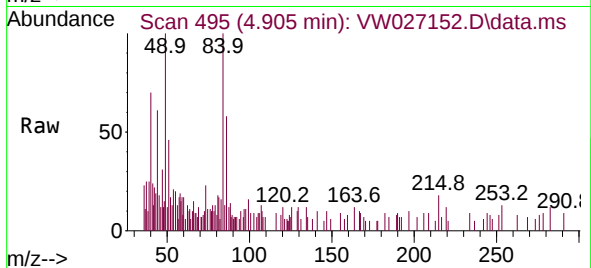




#16
Methylene chloride
Concen: 3.404 ug/L
RT: 4.905 min Scan# 495
Delta R.T. -0.012 min
Lab File: VW027152.D
Acq: 19 Sep 2023 17:03

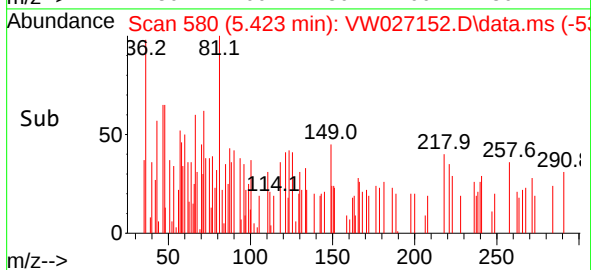
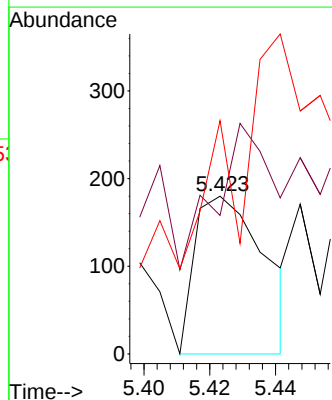
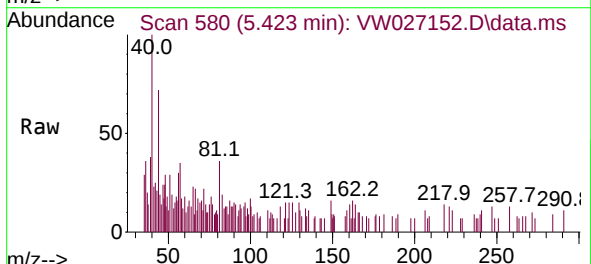
Instrument :
MSVOA_W
ClientSampleId :

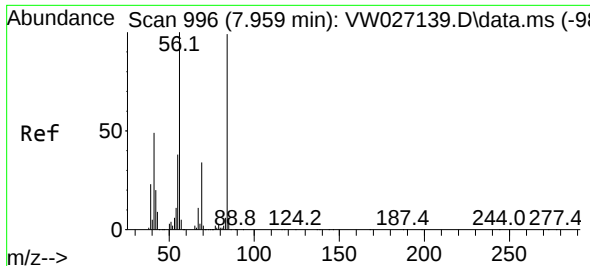
Tgt Ion:	84	Resp:	1346
Ion	Ratio	Lower	Upper
84	100		
86	58.1	46.7	86.7
49	99.9	77.1	143.1



#18
Methyl tert-butyl Ether
Concen: 0.602 ug/L
RT: 5.423 min Scan# 580
Delta R.T. -0.006 min
Lab File: VW027152.D
Acq: 19 Sep 2023 17:03

Tgt Ion:	73	Resp:	263
Ion	Ratio	Lower	Upper
73	100		
43	73.8	15.2	22.8#
57	51.3	17.6	26.4#





#29

Cyclohexane

Concen: 1.214 ug/L

RT: 7.959 min Scan# 996

Delta R.T. 0.000 min

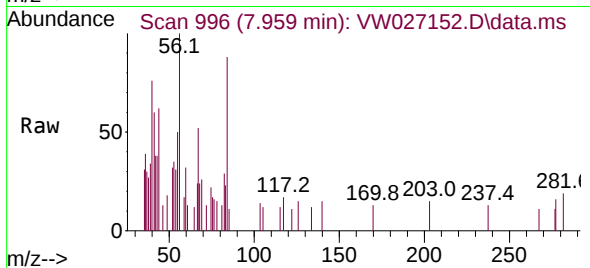
Lab File: VW027152.D

Acq: 19 Sep 2023 17:03

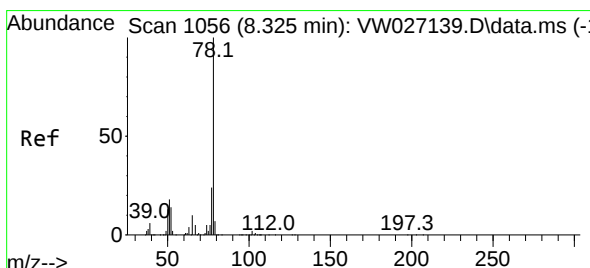
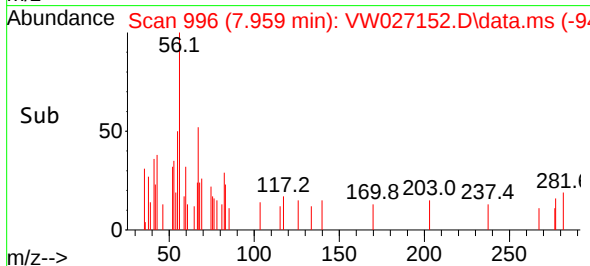
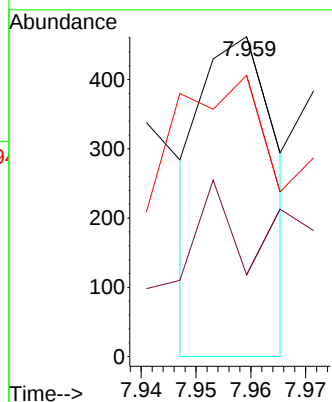
Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:	56	Resp:	434
Ion Ratio	Lower	Upper	
56	100		
69	40.8	26.5	39.7#
84	116.4	74.4	111.6#



#33

Benzene

Concen: 1.094 ug/L

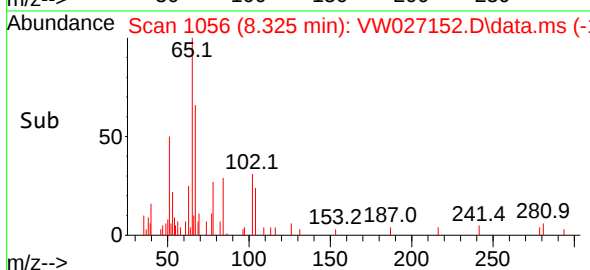
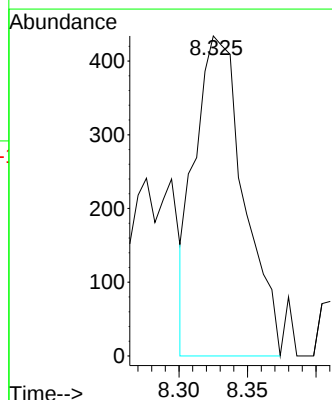
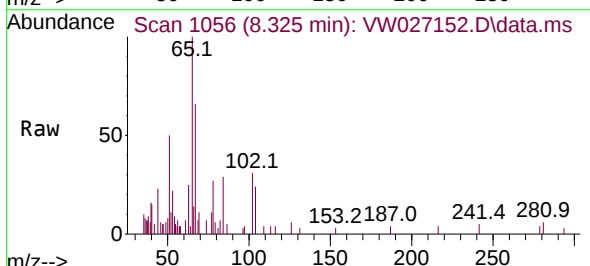
RT: 8.325 min Scan# 1056

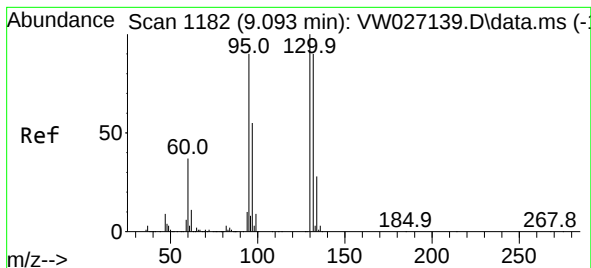
Delta R.T. 0.000 min

Lab File: VW027152.D

Acq: 19 Sep 2023 17:03

Tgt Ion: 78 Resp: 1080





#34

Trichloroethene

Concen: 1.077 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. 0.000 min

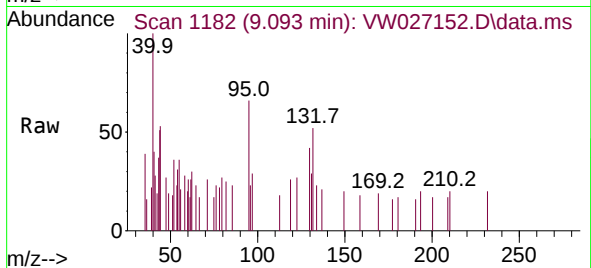
Lab File: VW027152.D

Acq: 19 Sep 2023 17:03

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 95 Resp: 281

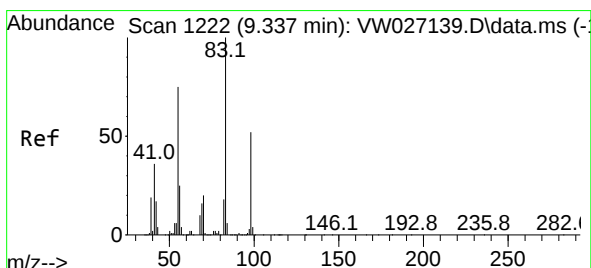
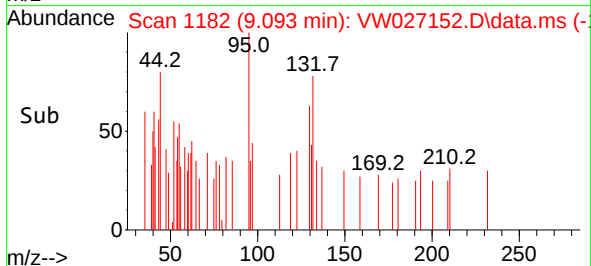
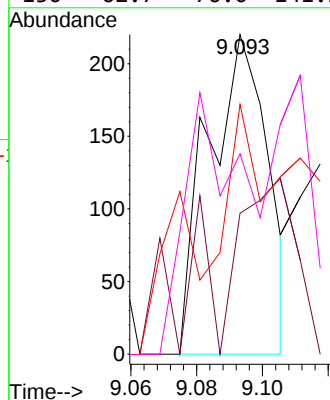
Ion Ratio Lower Upper

95 100

97 44.1 46.1 85.7#

132 78.2 67.9 126.1

130 62.7 76.0 141.2#



#35

Methylcyclohexane

Concen: 15.740 ug/L

RT: 9.337 min Scan# 1222

Delta R.T. 0.000 min

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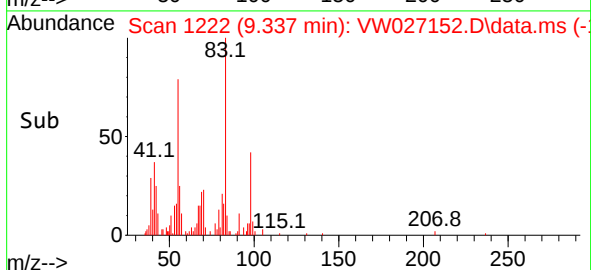
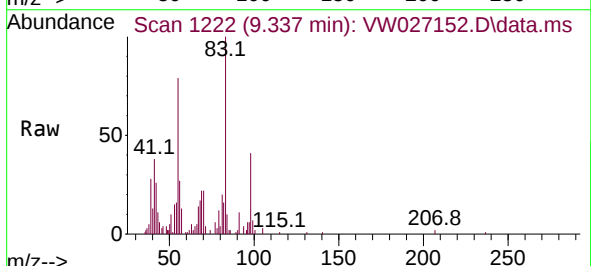
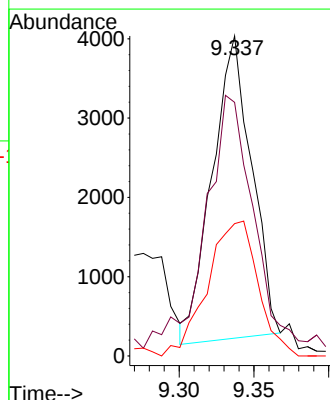
Tgt Ion: 83 Resp: 7002

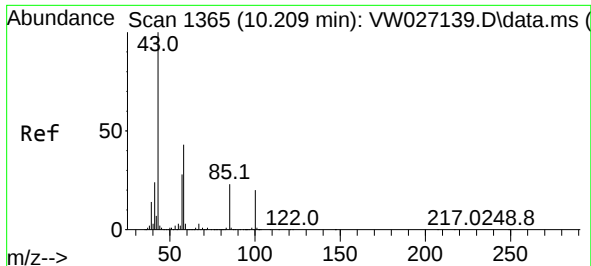
Ion Ratio Lower Upper

83 100

55 96.5 58.0 87.0#

98 57.1 38.5 57.7





#40

4-Methyl-2-pentanone

Concen: 1.765 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. 0.000 min

Lab File: VW027152.D

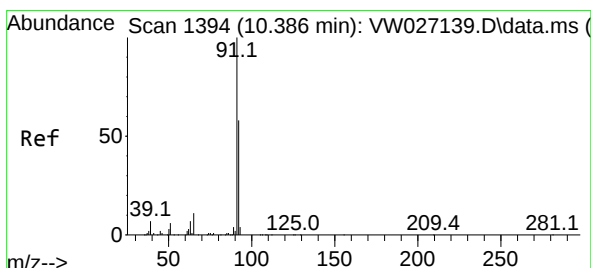
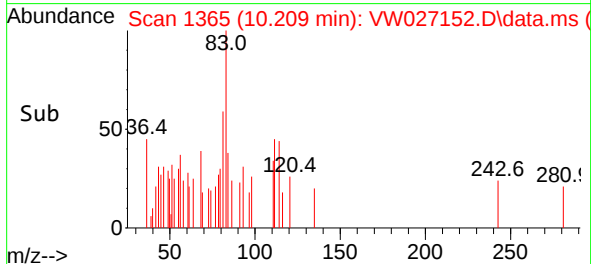
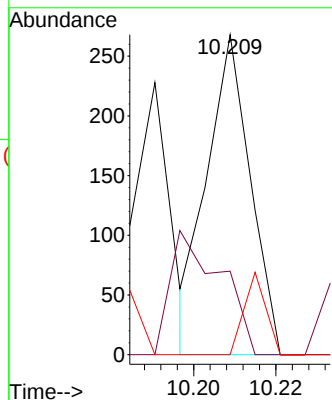
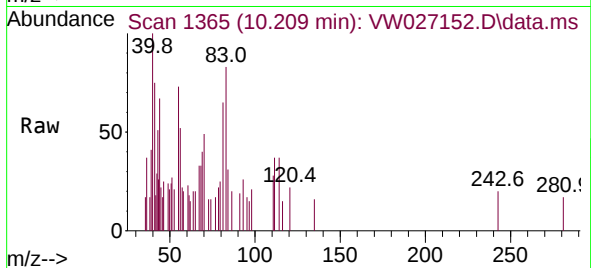
Acq: 19 Sep 2023 17:03

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ClientSampleId :

Tgt Ion:	43	Resp:	194
Ion Ratio	100	Lower	Upper
43	100		
58	0.0	35.4	53.2#
100	0.0	15.2	22.8#



#42

Toluene

Concen: 4.579 ug/L

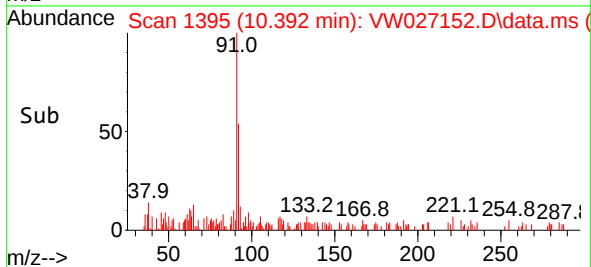
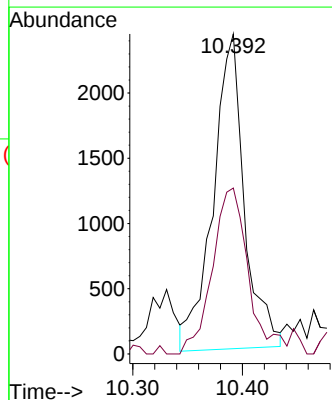
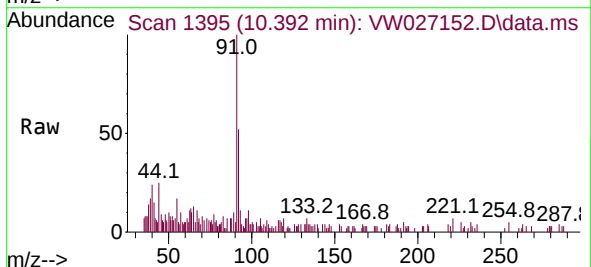
RT: 10.392 min Scan# 1395

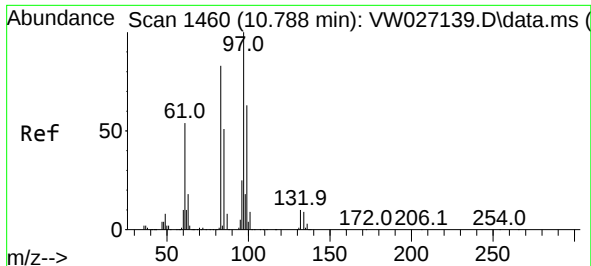
Delta R.T. 0.006 min

Lab File: VW027152.D

Acq: 19 Sep 2023 17:03

Tgt Ion:	91	Resp:	4775
Ion Ratio	100	Lower	Upper
91	100		
92	51.9	42.7	79.3

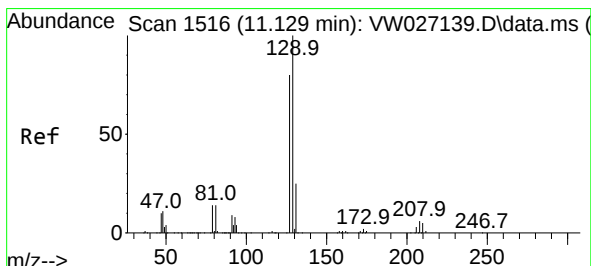
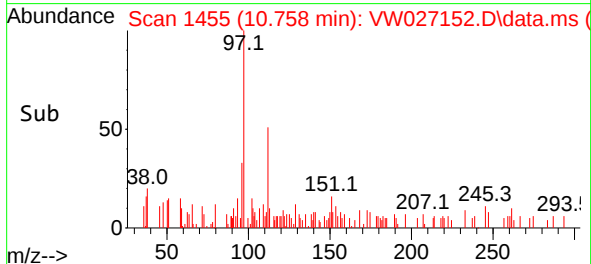
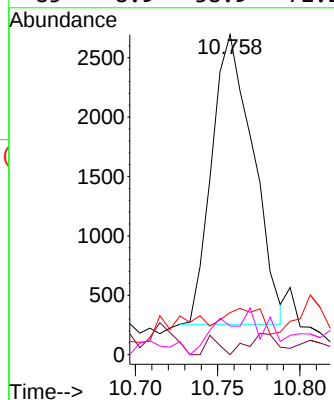
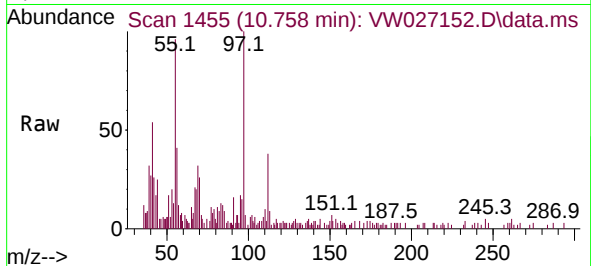




#45
1,1,2-Trichloroethane
Concen: 22.602 ug/L
RT: 10.758 min Scan# 1460
Delta R.T. -0.030 min
Lab File: VW027152.D
Acq: 19 Sep 2023 17:03

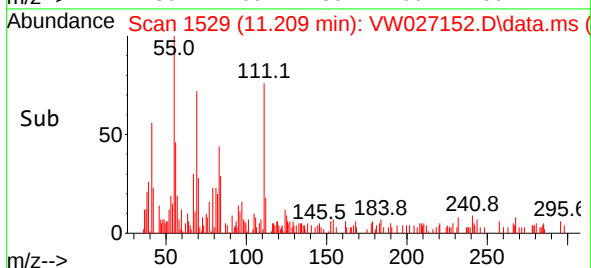
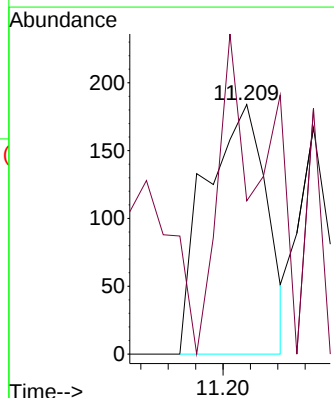
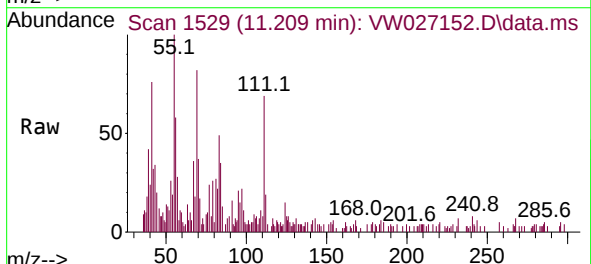
Instrument :
MSVOA_W
ClientSampleId :

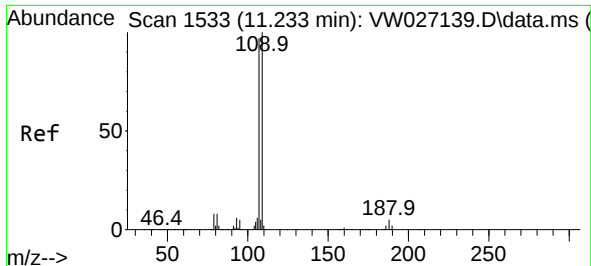
Tgt Ion: 97	Resp: 4262
Ion Ratio	Lower Upper
97 100	
99 2.3	43.3 80.5#
83 13.1	58.0 107.8#
85 8.9	38.9 72.2#



#49
Dibromochloromethane
Concen: 1.449 ug/L
RT: 11.209 min Scan# 1529
Delta R.T. 0.079 min
Lab File: VW027152.D
Acq: 19 Sep 2023 17:03

Tgt Ion:129	Resp:	286	
Ion	Ratio	Lower	Upper
129	100		
127	61.4	51.9	96.5





#50

1,2-Dibromoethane

Concen: 1.520 ug/L

RT: 11.227 min Scan# 1

Delta R.T. -0.006 min

Lab File: VW027152.D

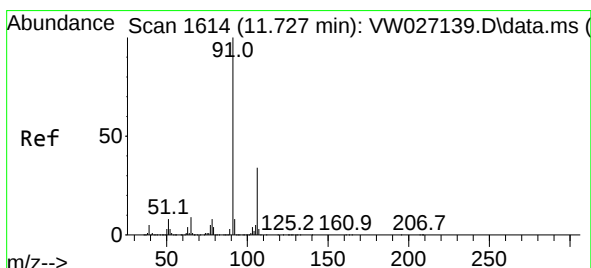
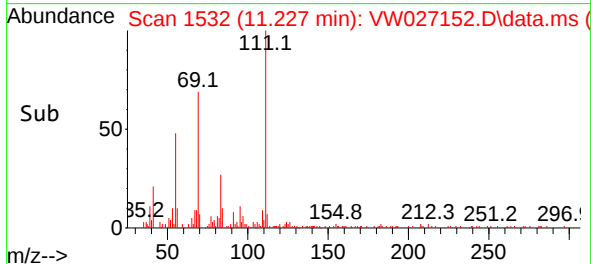
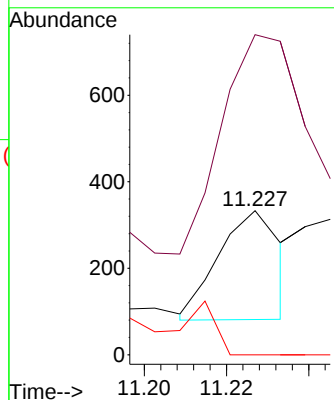
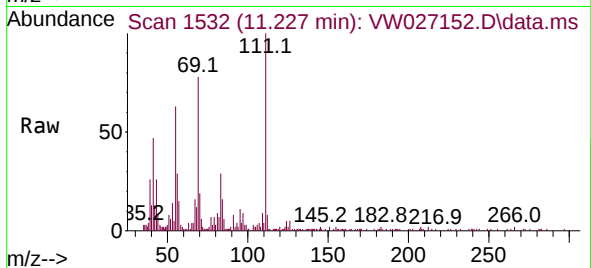
Acq: 19 Sep 2023 17:03

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	107	Resp:	263
Ion	Ratio	Lower	Upper
107	100		
109	222.2	63.3	117.5#
188	0.0	3.1	4.7#



#52

Ethylbenzene

Concen: 17.997 ug/L

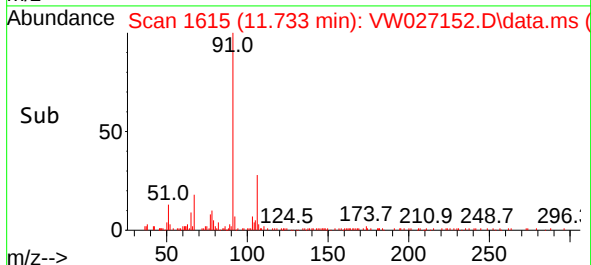
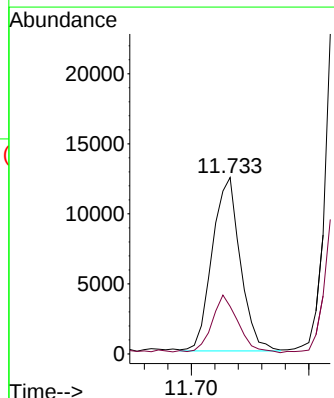
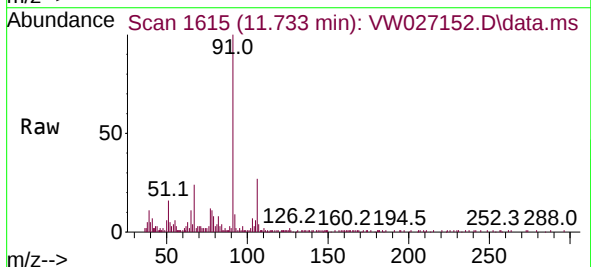
RT: 11.733 min Scan# 1615

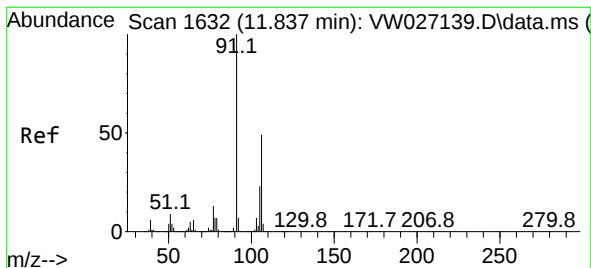
Delta R.T. 0.006 min

Lab File: VW027152.D

Acq: 19 Sep 2023 17:03

Tgt Ion:	91	Resp:	20582
Ion	Ratio	Lower	Upper
91	100		
106	26.9	21.8	40.4





#53

m,p-Xylene

Concen: 99.616 ug/L

RT: 11.831 min Scan# 1

Delta R.T. -0.006 min

Lab File: VW027152.D

Acq: 19 Sep 2023 17:03

Instrument :

MSVOA_W

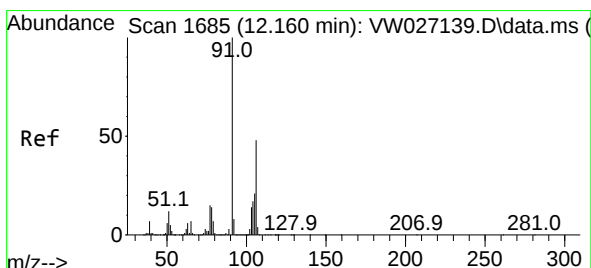
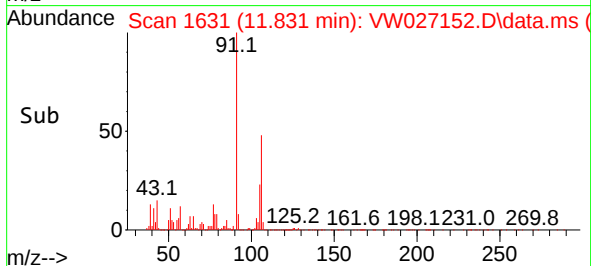
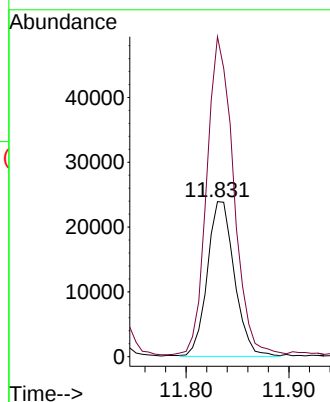
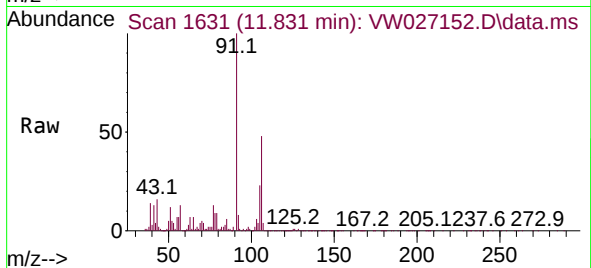
ClientSampleId :

Tgt Ion:106 Resp: 43691

Ion Ratio Lower Upper

106 100

91 206.3 142.7 265.1



#54

o-Xylene

Concen: 87.752 ug/L

RT: 12.166 min Scan# 1686

Delta R.T. 0.006 min

Lab File: VW027152.D

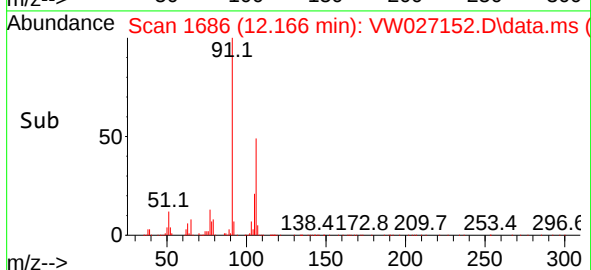
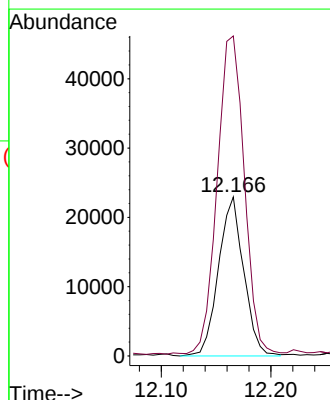
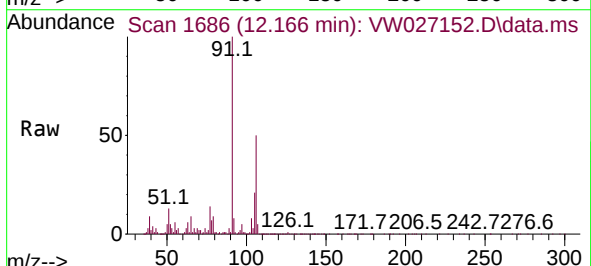
Acq: 19 Sep 2023 17:03

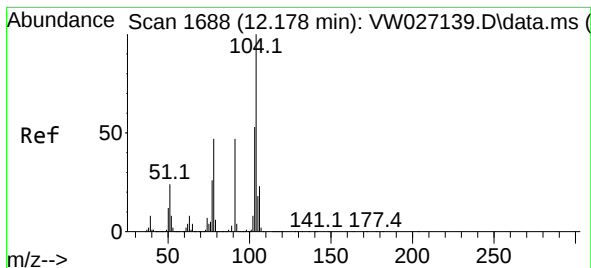
Tgt Ion:106 Resp: 36665

Ion Ratio Lower Upper

106 100

91 201.1 140.6 261.0





#55

Styrene

Concen: 3.904 ug/L

RT: 12.172 min Scan# 1

Delta R.T. -0.006 min

Lab File: VW027152.D

Acq: 19 Sep 2023 17:03

Instrument :

MSVOA_W

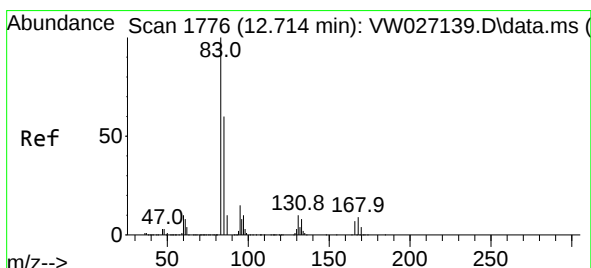
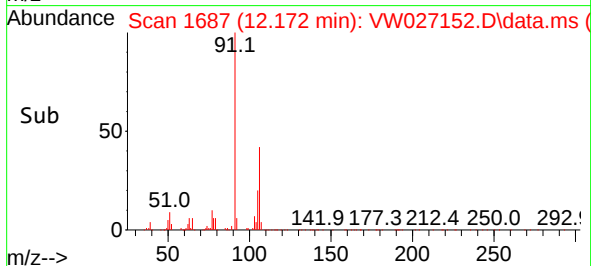
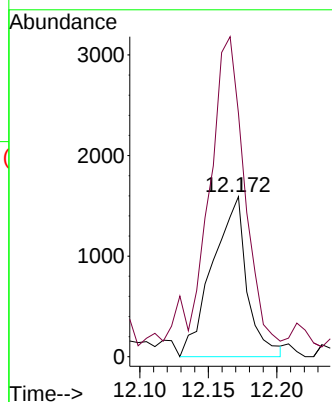
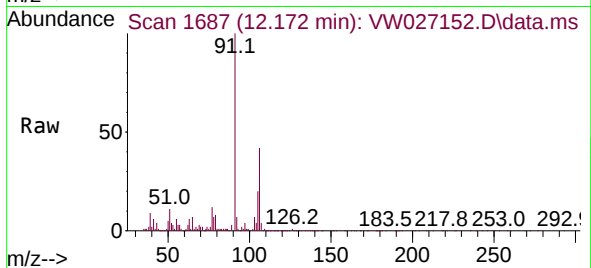
ClientSampleId :

Tgt Ion:104 Resp: 2795

Ion Ratio Lower Upper

104 100

78 152.1 30.2 56.0#



#57

1,1,2,2-Tetrachloroethane

Concen: 1.195 ug/L

RT: 12.702 min Scan# 1774

Delta R.T. -0.012 min

Lab File: VW027152.D

Acq: 19 Sep 2023 17:03

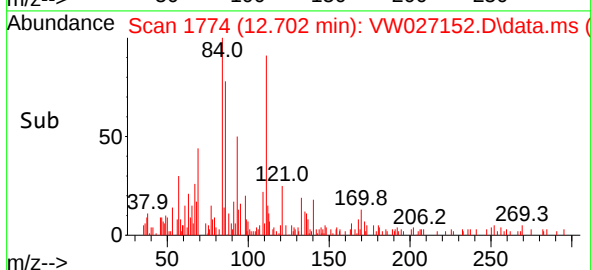
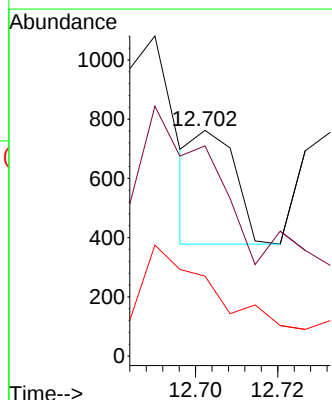
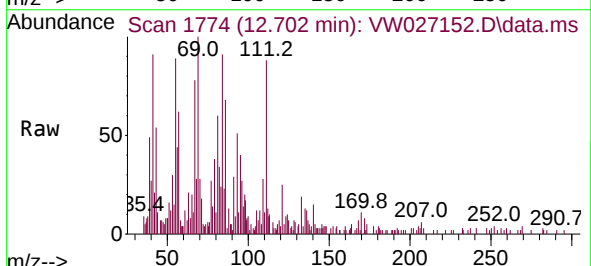
Tgt Ion: 83 Resp: 264

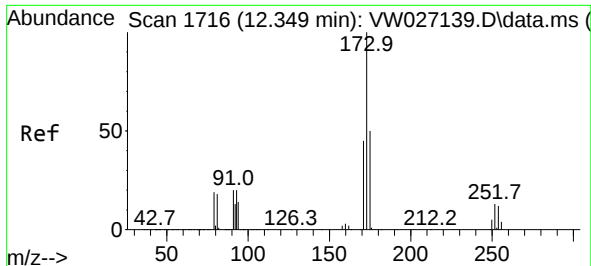
Ion Ratio Lower Upper

83 100

85 93.2 42.5 78.9#

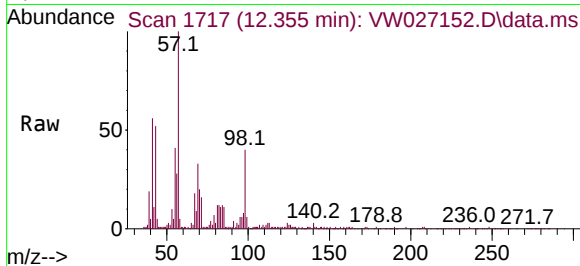
131 35.4 7.8 11.8#



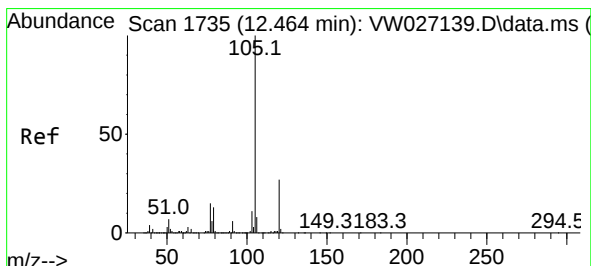
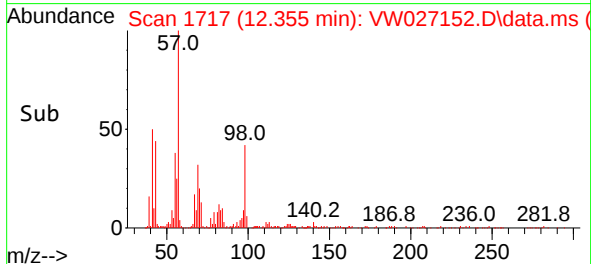
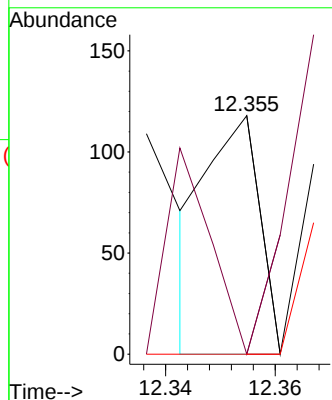


#59
Bromoform
Concen: 0.906 ug/L
RT: 12.355 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW027152.D
Acq: 19 Sep 2023 17:03

Instrument :
MSVOA_W
ClientSampleId :

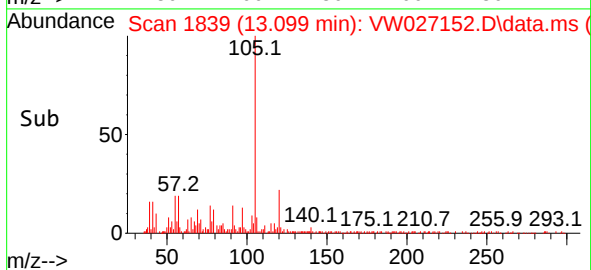
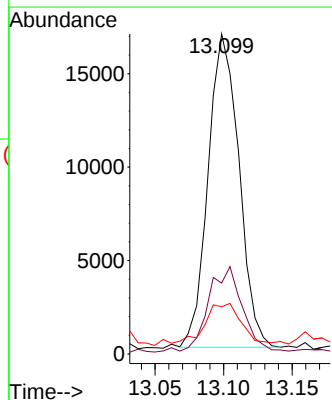
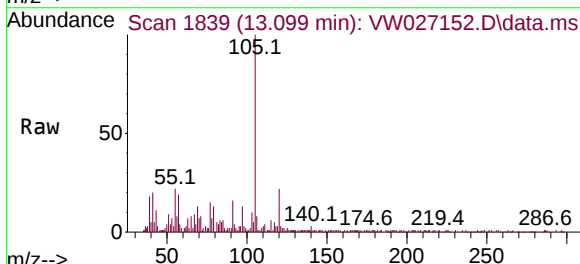


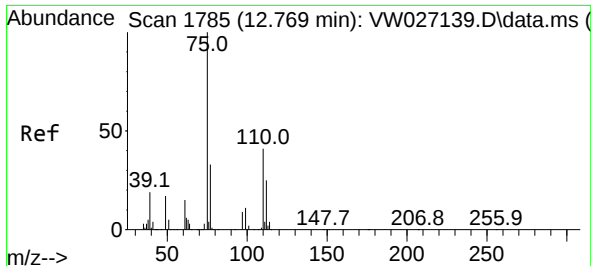
Tgt Ion:173 Resp: 78
Ion Ratio Lower Upper
173 100
175 73.1 36.6 55.0#
254 0.0 10.0 15.0#



#60
Isopropylbenzene
Concen: 33.012 ug/L
RT: 13.099 min Scan# 1839
Delta R.T. 0.634 min
Lab File: VW027152.D
Acq: 19 Sep 2023 17:03

Tgt Ion:105 Resp: 26298
Ion Ratio Lower Upper
105 100
120 28.8 21.0 31.4
77 14.3 12.0 18.0

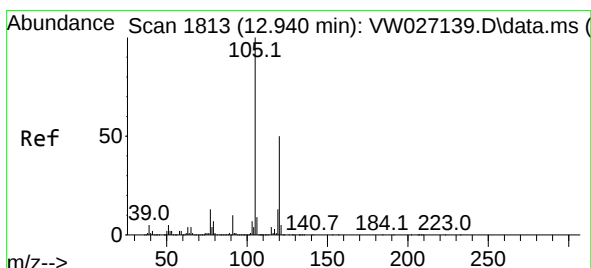
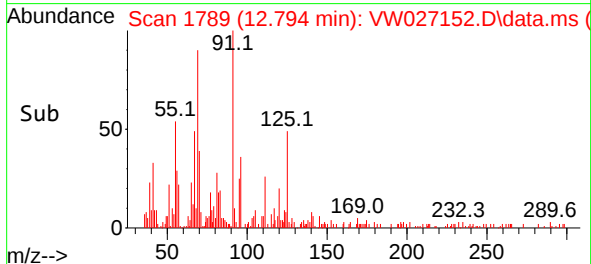
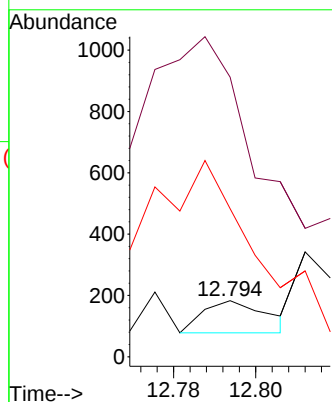
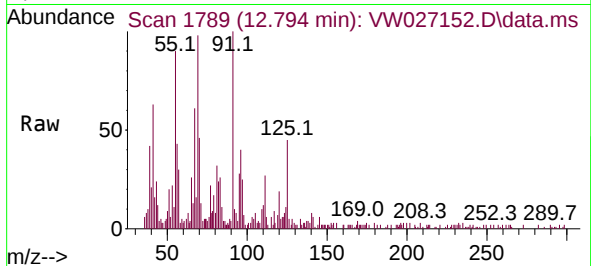




#61
1,2,3-Trichloropropane
Concen: 1.019 ug/L
RT: 12.794 min Scan# 11
Delta R.T. 0.024 min
Lab File: VW027152.D
Acq: 19 Sep 2023 17:03

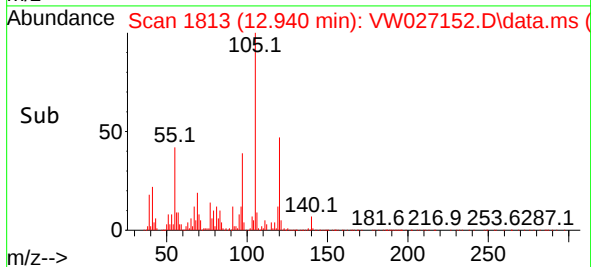
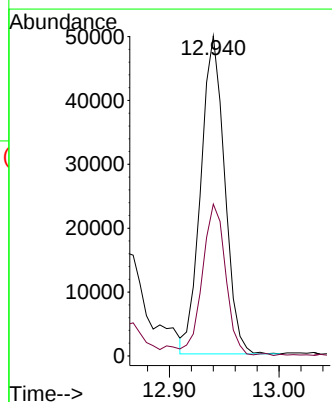
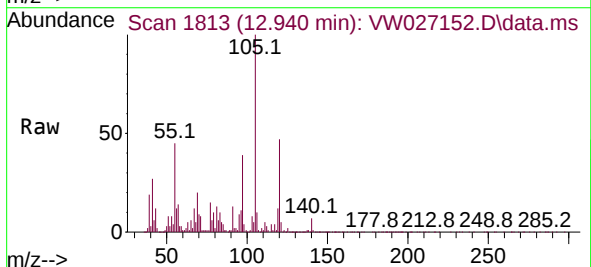
Instrument :
MSVOA_W
ClientSampleId :

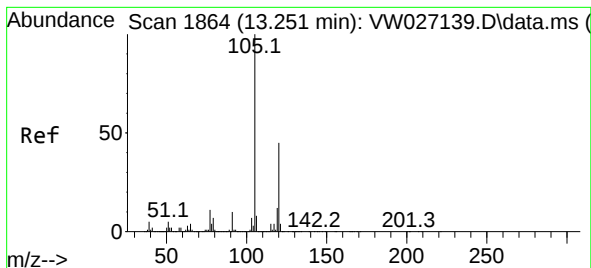
Tgt Ion: 75 Resp: 113
Ion Ratio Lower Upper
75 100
77 1384.1 26.0 39.0#
110 783.2 31.6 47.4#



#62
1,3,5-Trimethylbenzene
Concen: 118.120 ug/L
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW027152.D
Acq: 19 Sep 2023 17:03

Tgt Ion:105 Resp: 75303
Ion Ratio Lower Upper
105 100
120 45.7 40.5 60.7





#63

1,2,4-Trimethylbenzene

Concen: 125.457 ug/L

RT: 13.245 min Scan# 11

Delta R.T. -0.006 min

Lab File: VW027152.D

Acq: 19 Sep 2023 17:03

Instrument :

MSVOA_W

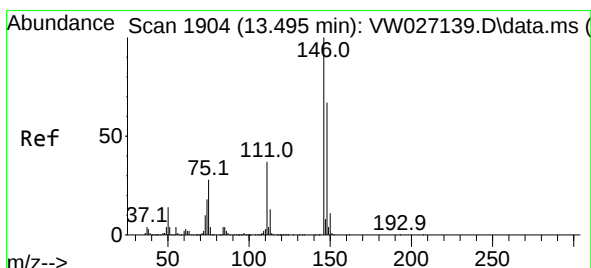
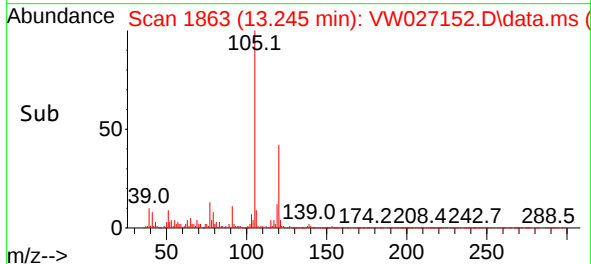
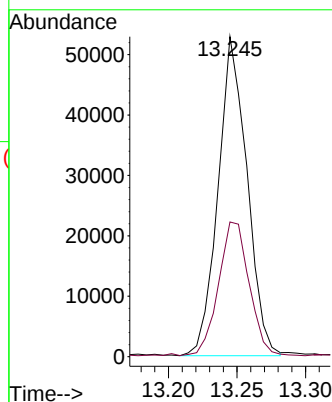
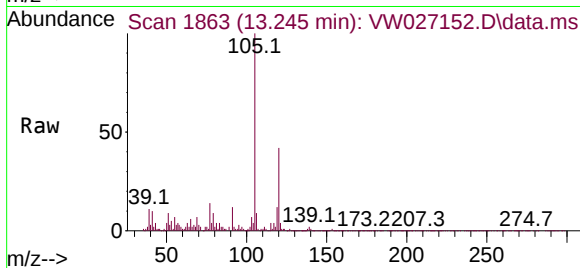
ClientSampleId :

Tgt Ion:105 Resp: 77495

Ion Ratio Lower Upper

105 100

120 44.4 36.2 54.2



#64

1,3-Dichlorobenzene

Concen: 0.818 ug/L

RT: 13.489 min Scan# 1903

Delta R.T. -0.006 min

Lab File: VW027152.D

Acq: 19 Sep 2023 17:03

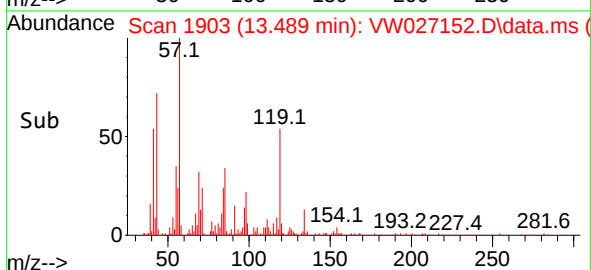
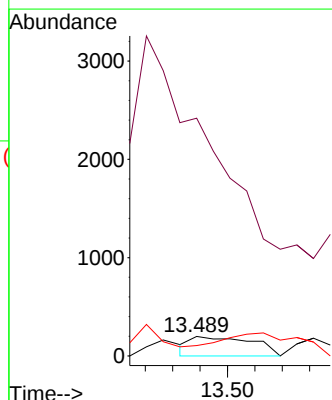
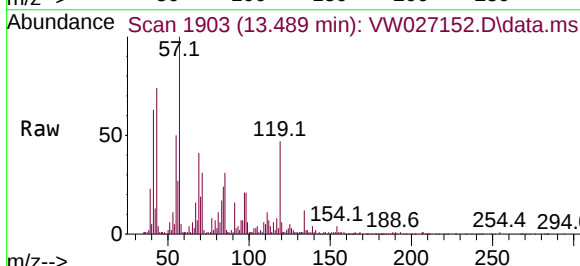
Tgt Ion:146 Resp: 308

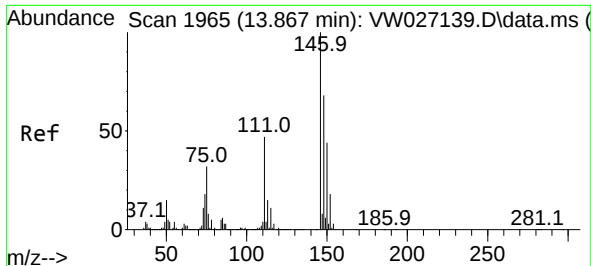
Ion Ratio Lower Upper

146 100

111 1221.7 27.6 51.4#

148 53.0 46.0 85.4





#67

1,2-Dichlorobenzene

Concen: 0.889 ug/L

RT: 13.855 min Scan# 1963

Delta R.T. -0.012 min

Lab File: VW027152.D

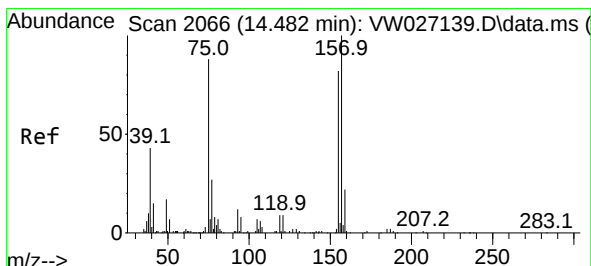
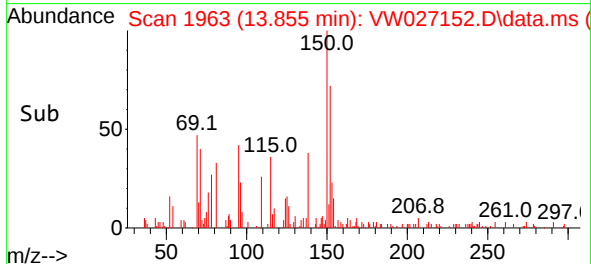
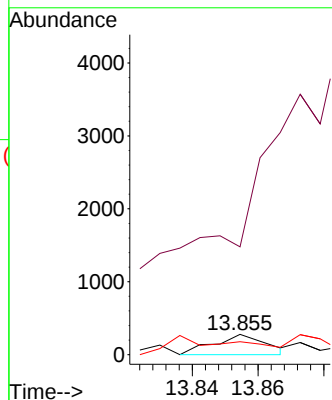
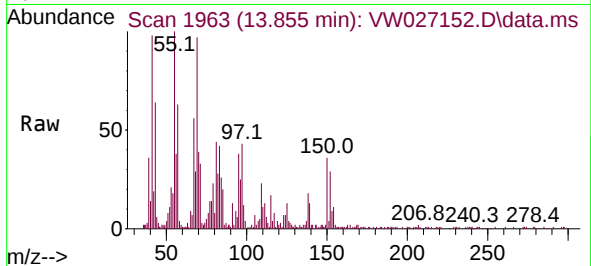
Acq: 19 Sep 2023 17:03

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	146	Resp:	306
Ion	Ratio	Lower	Upper
146	100		
111	532.0	32.2	48.2#
148	63.7	51.2	76.8



#68

1,2-Dibromo-3-chloropropane

Concen: 67.556 ug/L

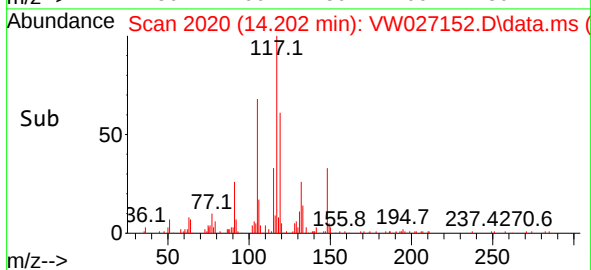
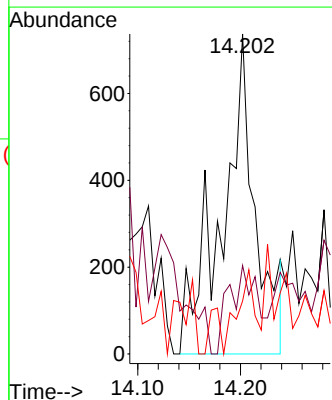
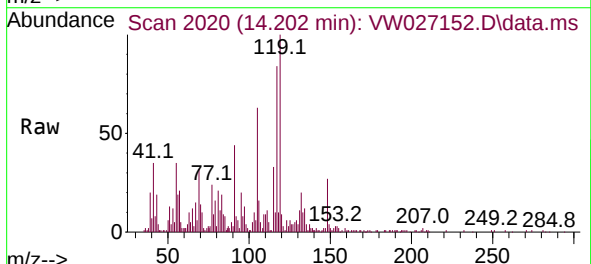
RT: 14.202 min Scan# 2020

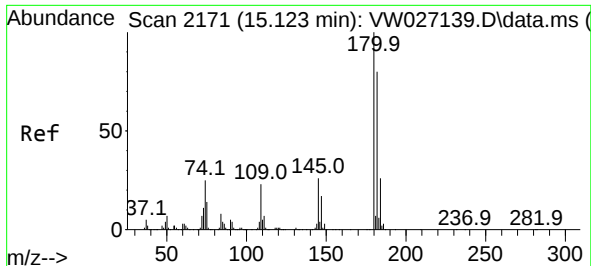
Delta R.T. -0.280 min

Lab File: VW027152.D

Acq: 19 Sep 2023 17:03

Tgt Ion:	75	Resp:	1659
Ion	Ratio	Lower	Upper
75	100		
155	27.7	58.7	88.1#
157	16.6	95.9	143.9#





#70

1,2,4-trichlorobenzene

Concen: 0.614 ug/L

RT: 15.116 min Scan# 2170

Delta R.T. -0.006 min

Lab File: VW027152.D

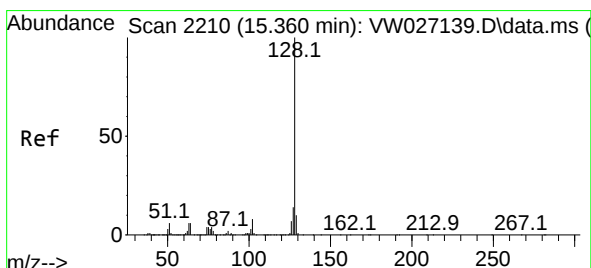
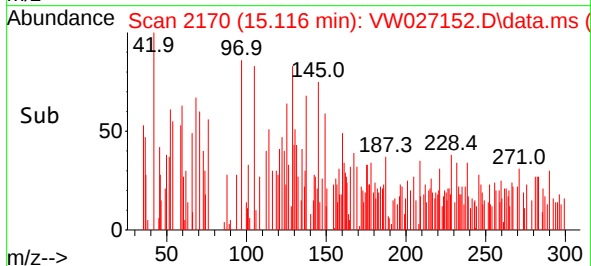
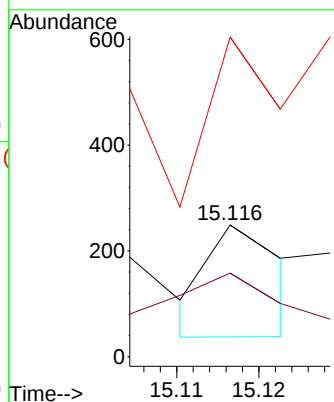
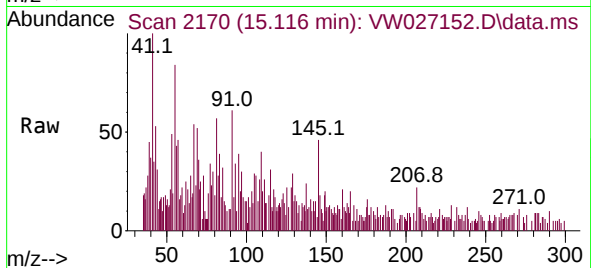
Acq: 19 Sep 2023 17:03

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:180	Resp:	132
Ion Ratio	Lower	Upper
180	100	
182	123.5	78.2 117.4#
145	260.6	24.6 36.8#



#71

Naphthalene

Concen: 1.944 ug/L

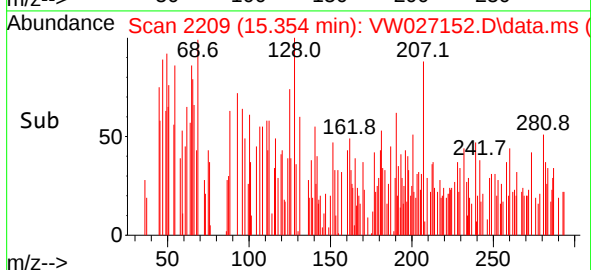
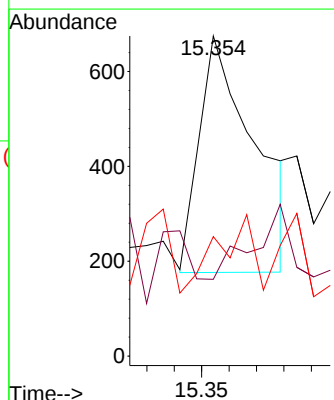
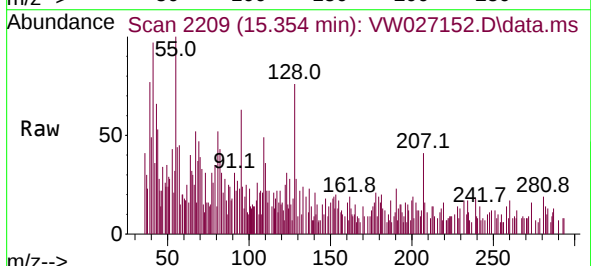
RT: 15.354 min Scan# 2209

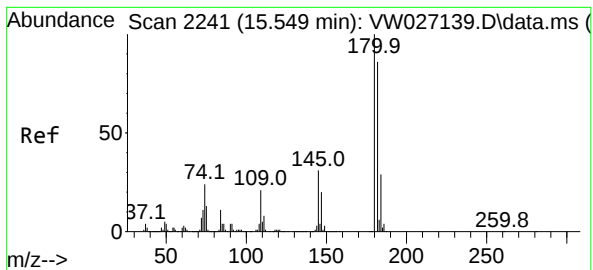
Delta R.T. -0.006 min

Lab File: VW027152.D

Acq: 19 Sep 2023 17:03

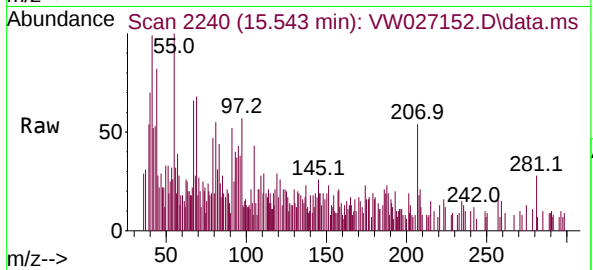
Tgt Ion:128	Resp:	695
Ion Ratio	Lower	Upper
128	100	
127	0.0	10.7 16.1#
129	24.7	8.8 13.2#





#72
 1,2,3-Trichlorobenzene
 Concen: 0.567 ug/L
 RT: 15.543 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VW027152.D
 Acq: 19 Sep 2023 17:03

Instrument :
 MSVOA_W
 ClientSampleId :



Tgt Ion:	180	Resp:	110
Ion Ratio	Lower	Upper	
180	100		
182	204.5	79.0	118.6#
145	211.8	25.4	38.2#

