

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW051923\
 Data File : VW026006.D
 Acq On : 19 May 2023 15:40
 Operator : SY/MD
 Sample : 02851-05
 Misc : 5.16g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 H0FJ8

Quant Time: May 20 05:08:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM050123SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sat May 20 04:57:36 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.849	114	5928	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.635	117	4699	25.000	ug/L	# 0.00
58) 1,4-Dichlorobenzene-d4	13.562	152	1567	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.369	65	2632	31.332	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 125.320%	
7) Chloroethane-d5	2.899	69	1777	28.533	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 114.120%	
11) 1,1-Dichloroethene-d2	4.021	65	795	18.900	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	= 75.600%	
21) 2-Butanone-d5	7.063	46	259	9.326	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	= 18.660%#	
24) Chloroform-d	7.648	84	5421	31.714	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	= 126.840%	
26) 1,2-Dichloroethane-d4	8.246	65	186	1.924	ug/L	-0.05
Spiked Amount	25.000	Range	70 - 130	Recovery	= 7.680%#	
32) Benzene-d6	8.282	84	10332	33.650	ug/L	0.01
Spiked Amount	25.000	Range	20 - 135	Recovery	= 134.600%	
36) 1,2-Dichloropropane-d6	9.276	67	3801	38.691	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	= 154.760%#	
41) Toluene-d8	10.325	98	6716	24.529	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	= 98.120%	
43) trans-1,3-Dichloroprop...	10.581	79	921	23.128	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	= 92.520%	
47) 2-Hexanone-d5	10.946	63	115	6.865	ug/L	0.02
Spiked Amount	50.000	Range	20 - 135	Recovery	= 13.720%#	
56) 1,1,2,2-Tetrachloroeth...	12.690	84	2620	34.991	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	= 139.960%#	
66) 1,2-Dichlorobenzene-d4	13.848	152	1471	25.751	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	= 103.000%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.009	85	49	0.740	ug/L	# 1
3) Chloromethane	2.466	50	83	0.850	ug/L	96
6) Bromomethane	2.844	94	57	1.037	ug/L	80
8) Chloroethane	2.954	64	97	1.688	ug/L	90
9) Trichlorofluoromethane	3.228	101	54	0.708	ug/L	84
10) 1,1,2-Trichloro-1,2,2-...	4.088	101	161	1.941	ug/L	# 39
13) Acetone	4.100	43	270	10.965	ug/L	82
15) Methyl Acetate	4.637	43	104	2.143	ug/L	99
16) Methylene chloride	4.917	84	325	2.658	ug/L	97
17) trans-1,2-Dichloroethene	5.429	96	102	1.179	ug/L	# 36
20) cis-1,2-Dichloroethene	7.185	96	101	1.088	ug/L	# 35
22) 2-Butanone	7.179	43	171	5.029	ug/L	84
23) Bromochloromethane	7.478	128	123	3.129	ug/L	# 1
27) 1,2-Dichloroethane	8.386	62	111	0.957	ug/L	# 75
34) Trichloroethene	9.087	95	71	0.851	ug/L	# 41
37) 1,2-Dichloropropane	9.386	63	240	2.695	ug/L	# 43
38) Bromodichloromethane	9.636	83	90	0.881	ug/L	# 97
40) 4-Methyl-2-pentanone	10.215	43	85	1.466	ug/L	# 1
45) 1,1,2-Trichloroethane	10.776	97	80	1.343	ug/L	# 48

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

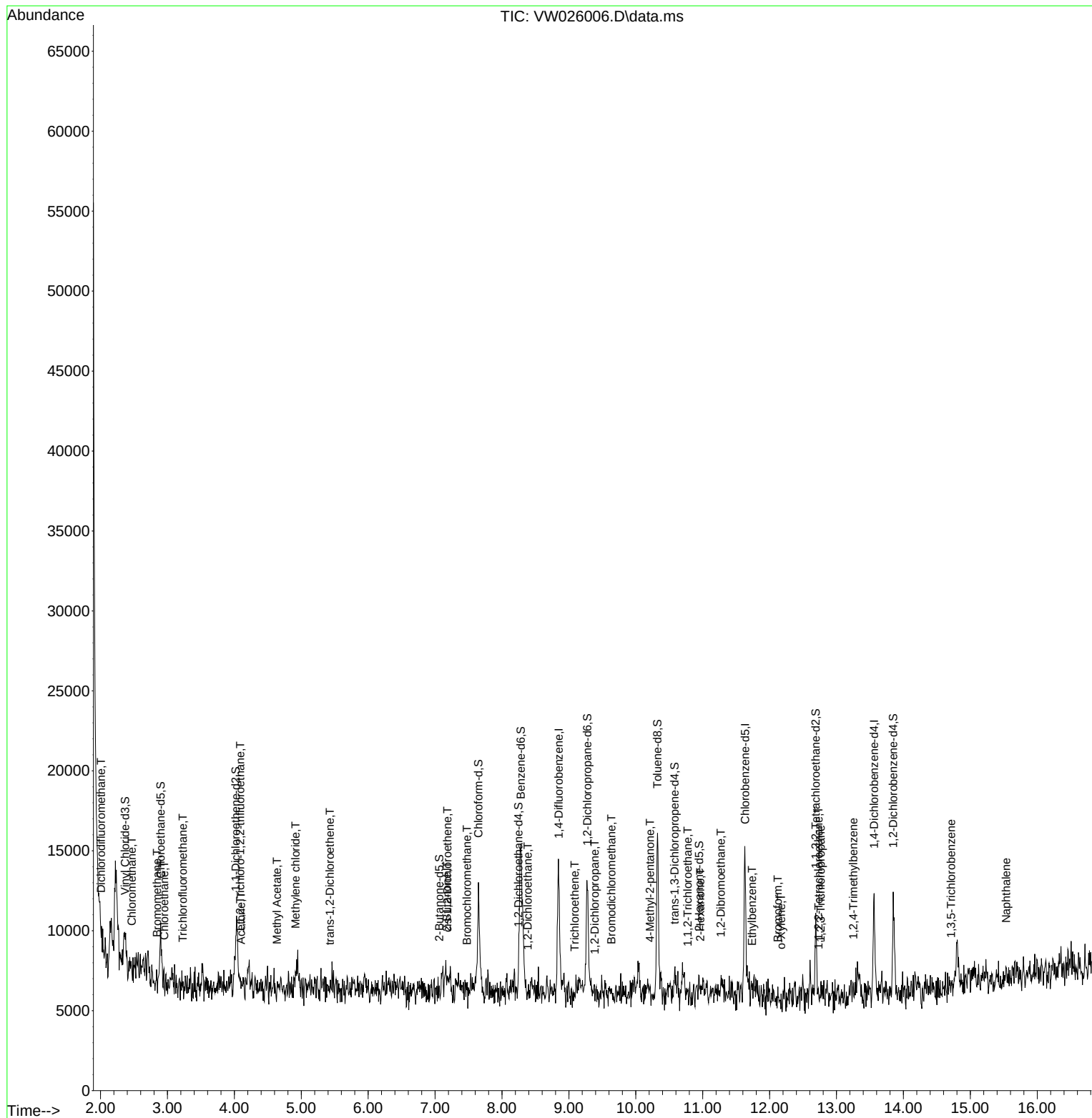
48) 2-Hexanone	10.965	43	91	2.191	ug/L #	23
50) 1,2-Dibromoethane	11.270	107	61	1.111	ug/L #	75
52) Ethylbenzene	11.739	91	245	0.656	ug/L	95
54) o-Xylene	12.172	106	120	0.926	ug/L #	15
57) 1,1,2,2-Tetrachloroethane	12.733	83	87	1.170	ug/L #	25
59) Bromoform	12.123	173	61	2.628	ug/L #	1
61) 1,2,3-Trichloropropane	12.763	75	88	2.376	ug/L #	1
63) 1,2,4-Trimethylbenzene	13.251	105	104	0.597	ug/L #	32
69) 1,3,5-Trichlorobenzene	14.714	180	63	0.926	ug/L #	13
71) Naphthalene	15.537	128	76	0.706	ug/L #	2

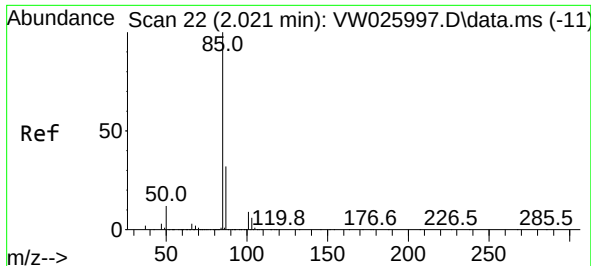
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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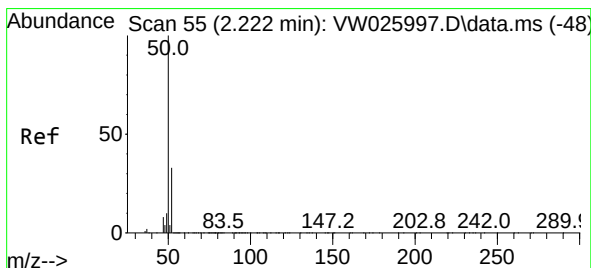
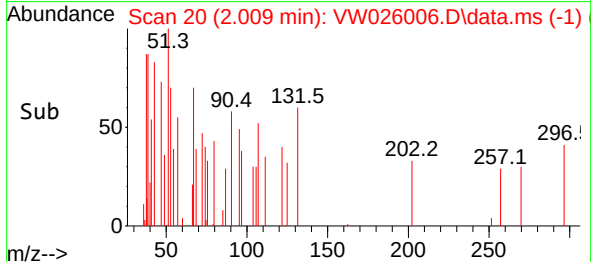
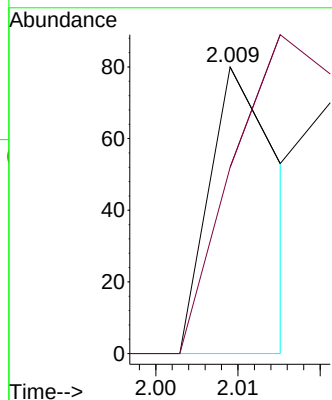
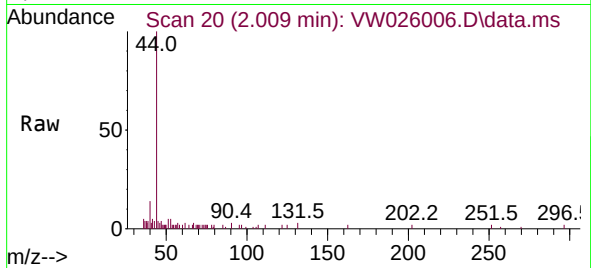




#2
 Dichlorodifluoromethane
 Concen: 0.740 ug/L
 RT: 2.009 min Scan# 20
 Delta R.T. -0.012 min
 Lab File: VW026006.D
 Acq: 19 May 2023 15:40

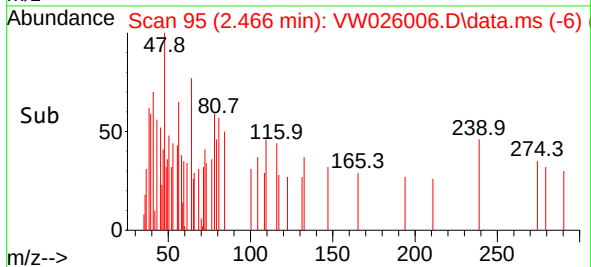
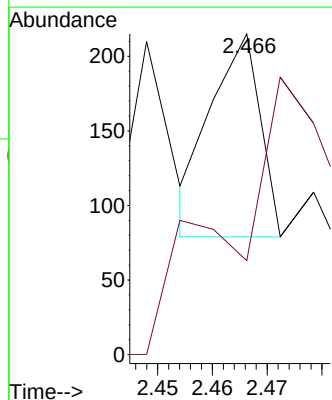
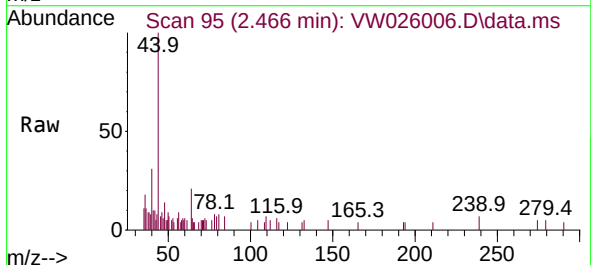
Instrument :
 MSVOA_W
 ClientSampleId :
 H0FJ8

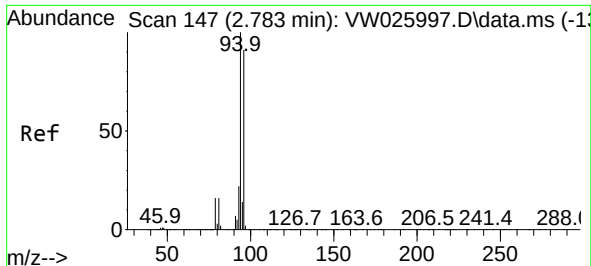
Tgt Ion: 85 Resp: 49
 Ion Ratio Lower Upper
 85 100
 87 163.3 24.7 37.1#



#3
 Chloromethane
 Concen: 0.850 ug/L
 RT: 2.466 min Scan# 95
 Delta R.T. 0.244 min
 Lab File: VW026006.D
 Acq: 19 May 2023 15:40

Tgt Ion: 50 Resp: 83
 Ion Ratio Lower Upper
 50 100
 52 29.3 22.1 41.1

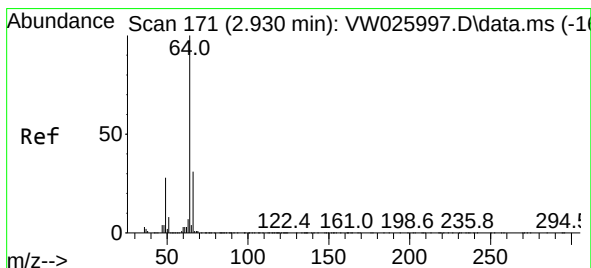
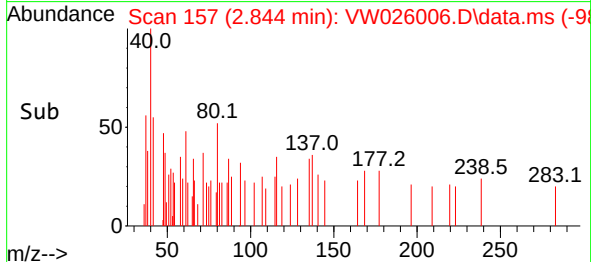
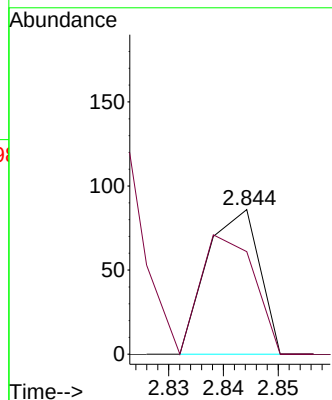
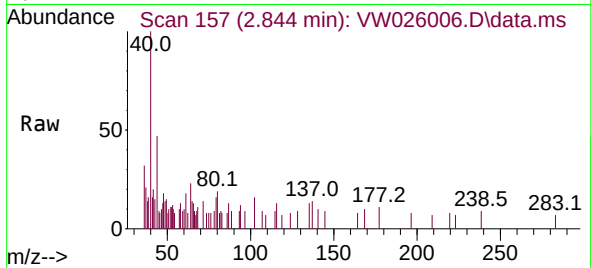




#6
Bromomethane
Concen: 1.037 ug/L
RT: 2.844 min Scan# 11
Delta R.T. 0.061 min
Lab File: VW026006.D
Acq: 19 May 2023 15:40

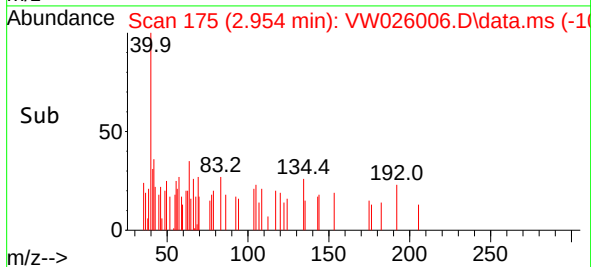
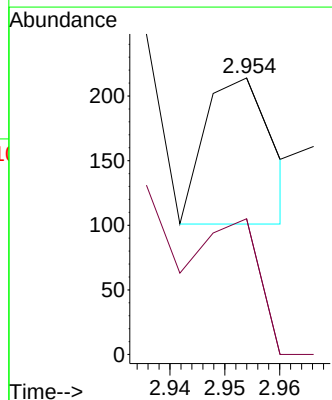
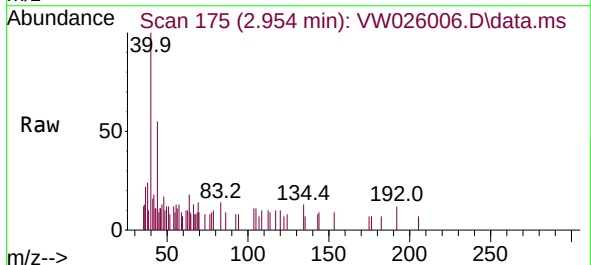
Instrument :
MSVOA_W
ClientSampleId :
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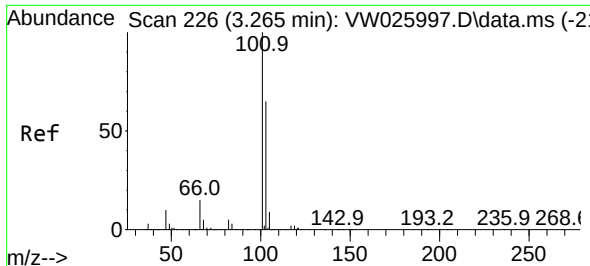
Tgt Ion: 94 Resp: 57
Ion Ratio Lower Upper
94 100
96 70.9 63.1 117.1



#8
Chloroethane
Concen: 1.688 ug/L
RT: 2.954 min Scan# 175
Delta R.T. 0.024 min
Lab File: VW026006.D
Acq: 19 May 2023 15:40

Tgt Ion: 64 Resp: 97
Ion Ratio Lower Upper
64 100
66 37.6 22.3 41.3

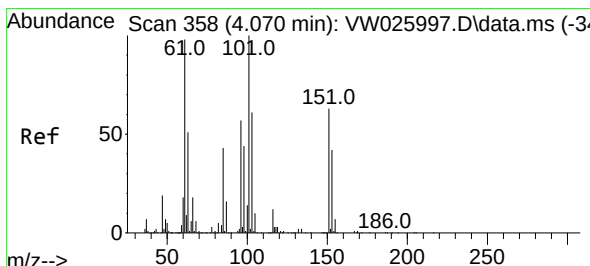
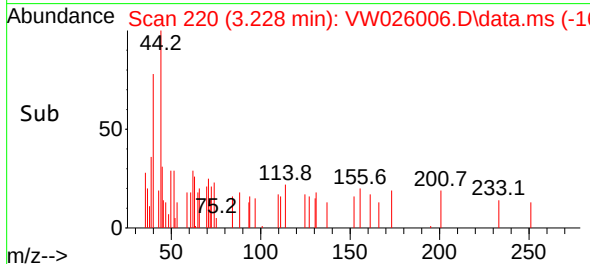
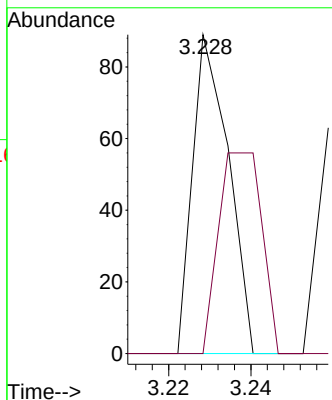
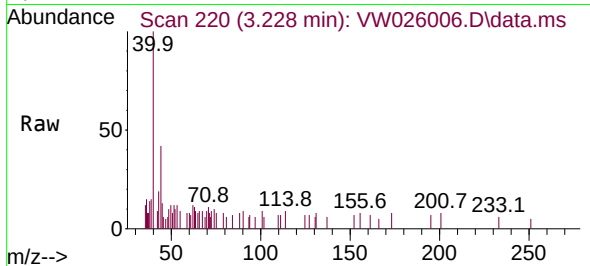




#9
 Trichlorofluoromethane
 Concen: 0.708 ug/L
 RT: 3.228 min Scan# 210
 Delta R.T. -0.037 min
 Lab File: VW026006.D
 Acq: 19 May 2023 15:40

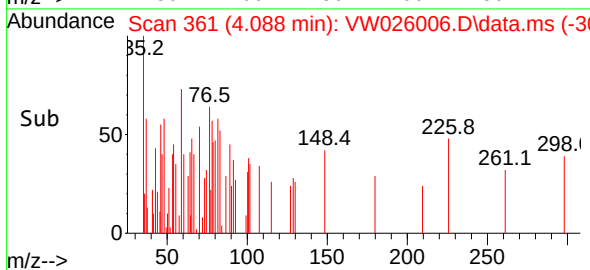
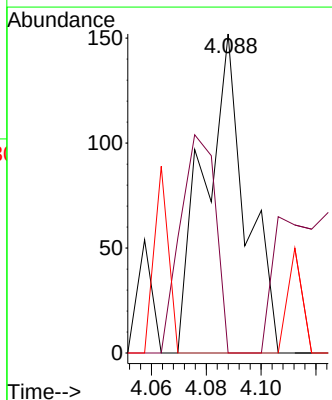
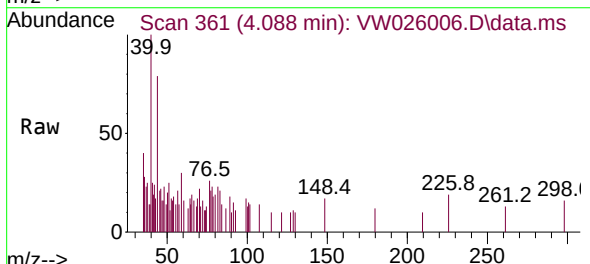
Instrument :
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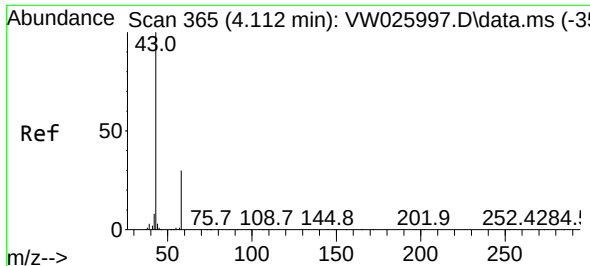
Tgt Ion:101 Resp: 54
 Ion Ratio Lower Upper
 101 100
 103 75.9 50.6 76.0



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 1.941 ug/L
 RT: 4.088 min Scan# 361
 Delta R.T. 0.018 min
 Lab File: VW026006.D
 Acq: 19 May 2023 15:40

Tgt Ion:101 Resp: 161
 Ion Ratio Lower Upper
 101 100
 85 57.8 33.9 50.9#
 151 0.0 54.2 81.2#

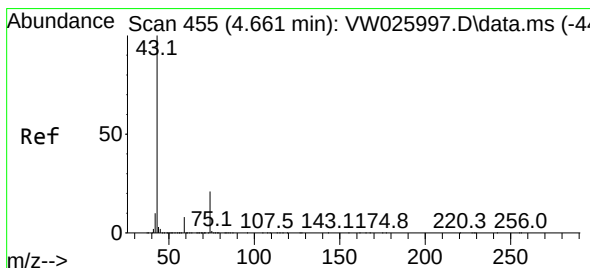
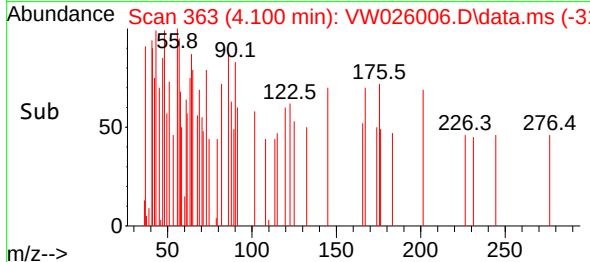
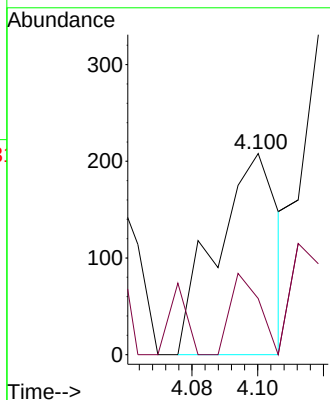
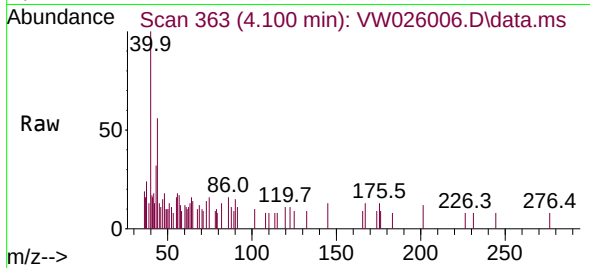




#13
Acetone
Concen: 10.965 ug/L
RT: 4.100 min Scan# 365
Delta R.T. -0.012 min
Lab File: VW026006.D
Acq: 19 May 2023 15:40

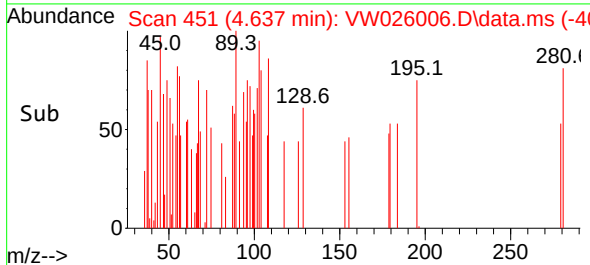
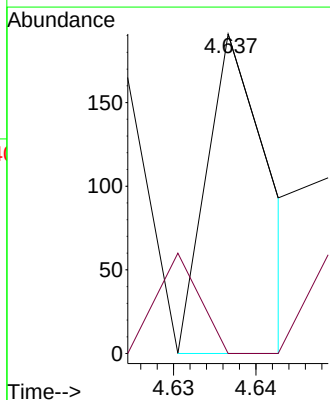
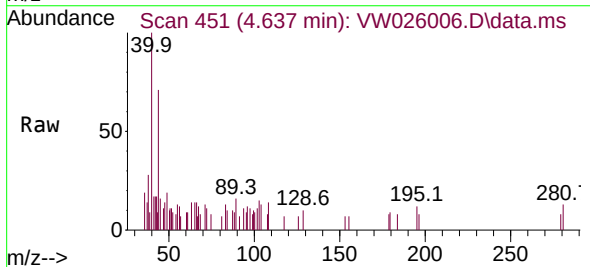
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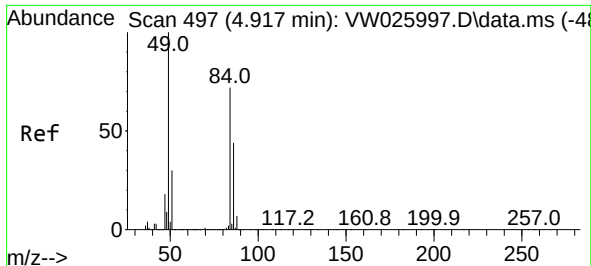
Tgt Ion: 43 Resp: 270
Ion Ratio Lower Upper
43 100
58 19.3 0.0 58.2



#15
Methyl Acetate
Concen: 2.143 ug/L
RT: 4.637 min Scan# 451
Delta R.T. -0.024 min
Lab File: VW026006.D
Acq: 19 May 2023 15:40

Tgt Ion: 43 Resp: 104
Ion Ratio Lower Upper
43 100
74 21.2 16.5 24.7

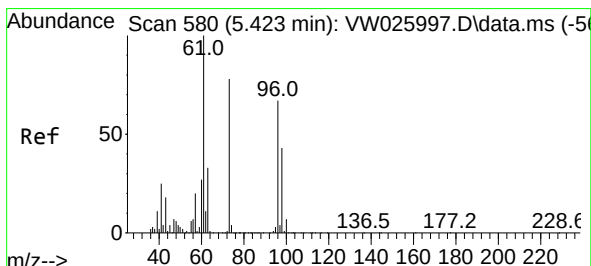
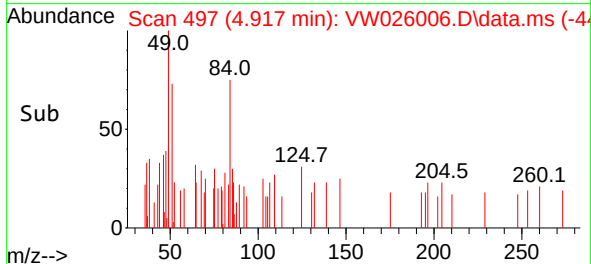
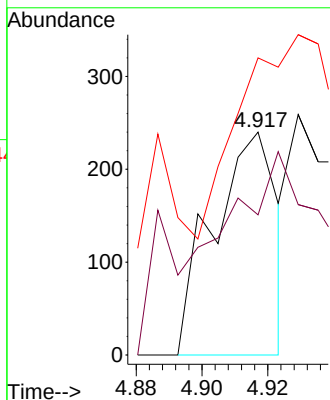
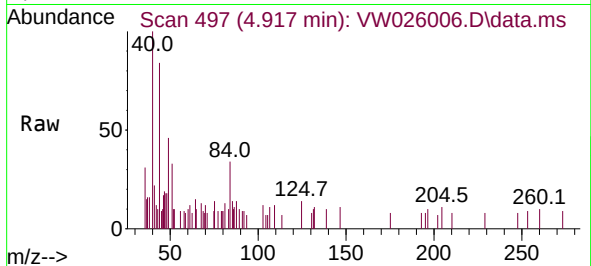




#16
Methylene chloride
Concen: 2.658 ug/L
RT: 4.917 min Scan# 49
Delta R.T. -0.000 min
Lab File: VW026006.D
Acq: 19 May 2023 15:40

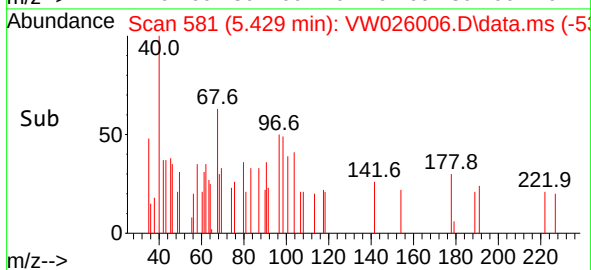
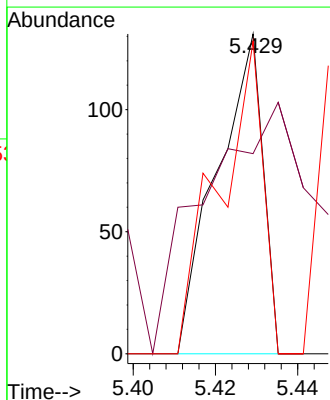
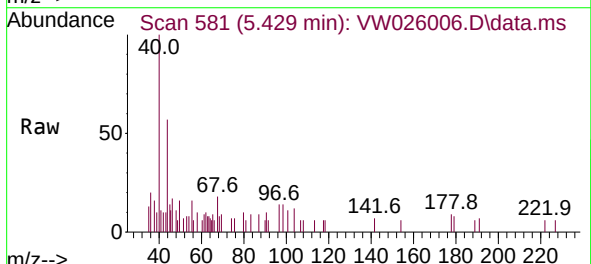
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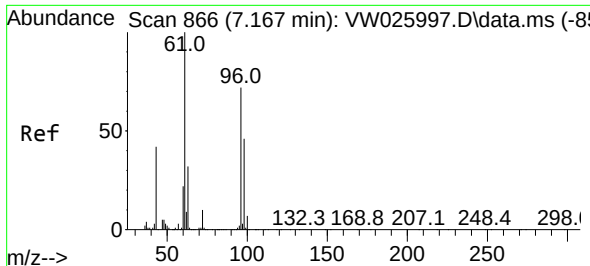
Tgt Ion: 84 Resp: 325
Ion Ratio Lower Upper
84 100
86 62.9 41.7 77.5
49 133.3 95.3 177.1



#17
trans-1,2-Dichloroethene
Concen: 1.179 ug/L
RT: 5.429 min Scan# 581
Delta R.T. 0.006 min
Lab File: VW026006.D
Acq: 19 May 2023 15:40

Tgt Ion: 96 Resp: 102
Ion Ratio Lower Upper
96 100
61 62.6 108.1 200.9#
98 97.7 44.0 81.8#

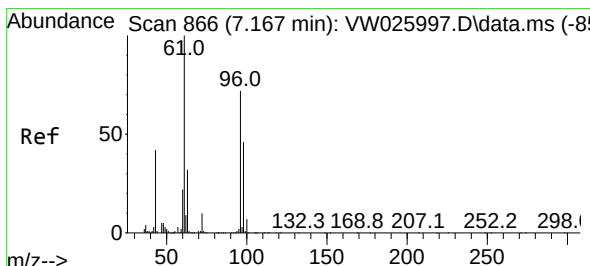
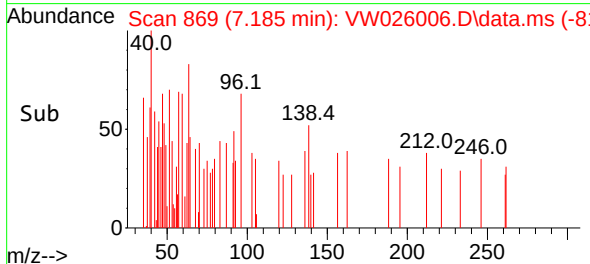
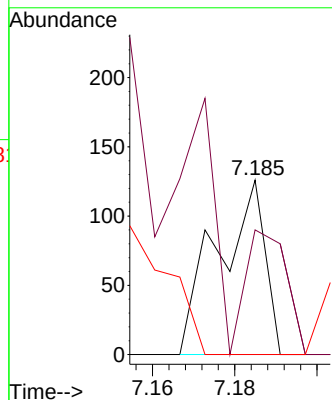
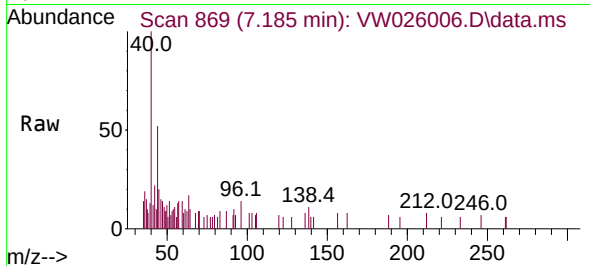




#20
 cis-1,2-Dichloroethene
 Concen: 1.088 ug/L
 RT: 7.185 min Scan# 80
 Delta R.T. 0.018 min
 Lab File: VW026006.D
 Acq: 19 May 2023 15:40

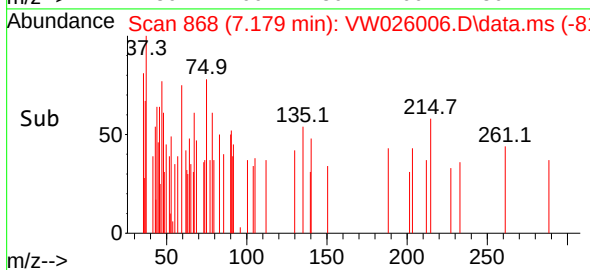
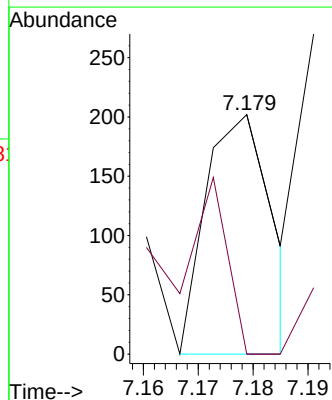
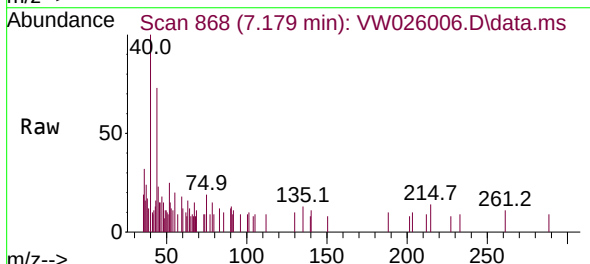
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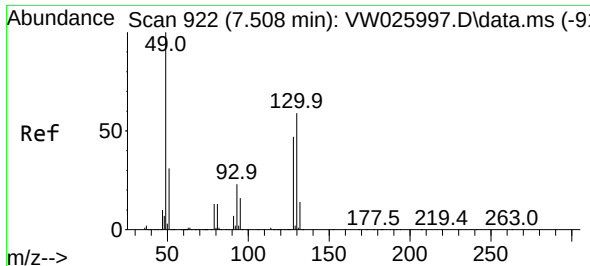
Tgt Ion: 96 Resp: 101
 Ion Ratio Lower Upper
 96 100
 61 71.4 98.6 183.0#
 98 0.0 45.2 84.0#



#22
 2-Butanone
 Concen: 5.029 ug/L
 RT: 7.179 min Scan# 868
 Delta R.T. 0.012 min
 Lab File: VW026006.D
 Acq: 19 May 2023 15:40

Tgt Ion: 43 Resp: 171
 Ion Ratio Lower Upper
 43 100
 72 31.6 11.8 35.4

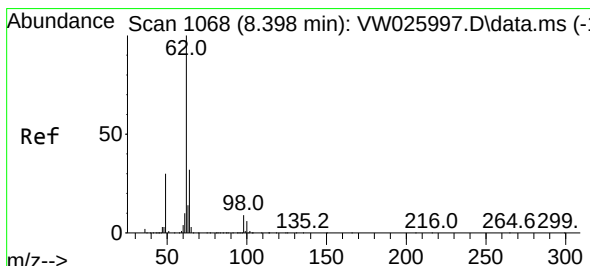
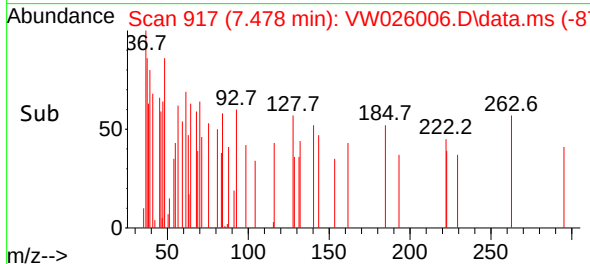
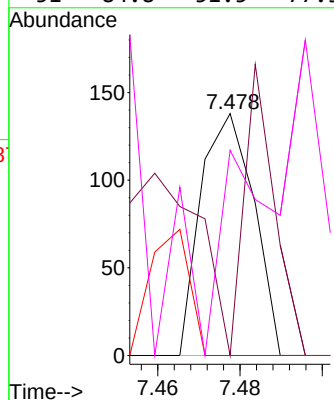
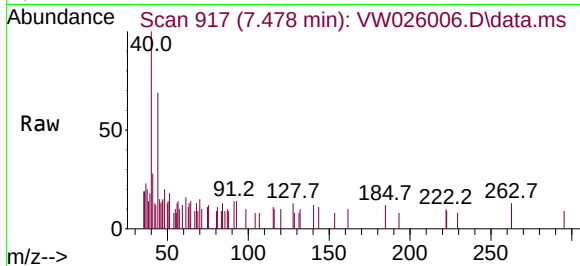




#23
Bromochloromethane
Concen: 3.129 ug/L
RT: 7.478 min Scan# 91
Delta R.T. -0.031 min
Lab File: VW026006.D
Acq: 19 May 2023 15:40

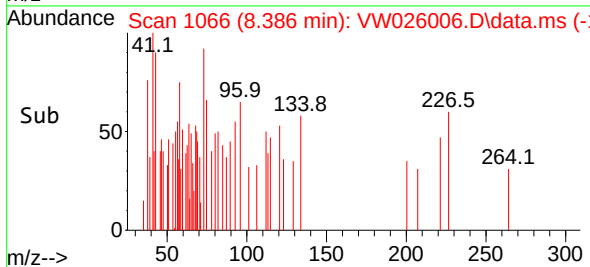
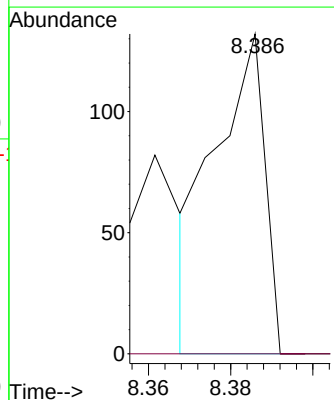
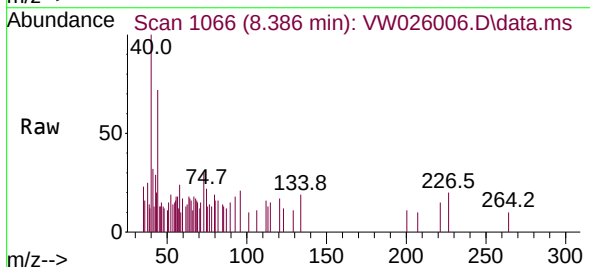
Instrument :
MSVOA_W
ClientSampleId :
H0FJ8

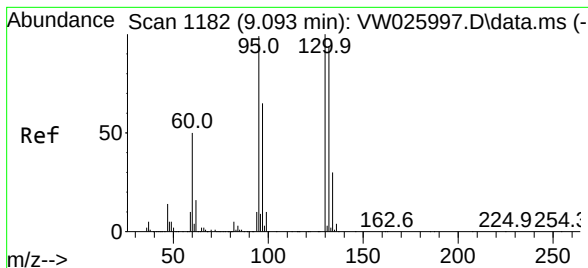
Tgt Ion:128 Resp: 123
Ion Ratio Lower Upper
128 100
49 0.0 151.5 281.5#
130 0.0 91.3 169.6#
51 84.8 51.5 77.3#



#27
1,2-Dichloroethane
Concen: 0.957 ug/L
RT: 8.386 min Scan# 1066
Delta R.T. -0.012 min
Lab File: VW026006.D
Acq: 19 May 2023 15:40

Tgt Ion: 62 Resp: 111
Ion Ratio Lower Upper
62 100
98 0.0 7.2 10.8#





#34

Trichloroethene

Concen: 0.851 ug/L

RT: 9.087 min Scan# 1182

Delta R.T. -0.006 min

Lab File: VW026006.D

Acq: 19 May 2023 15:40

Instrument :

MSVOA_W

ClientSampleId :

H0FJ8

Tgt Ion: 95 Resp: 71

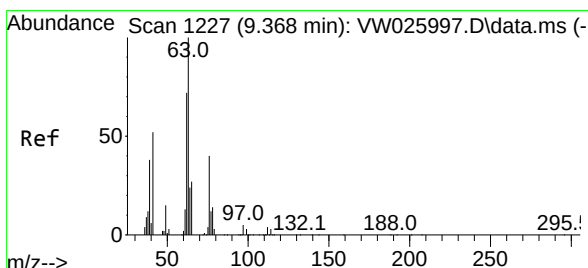
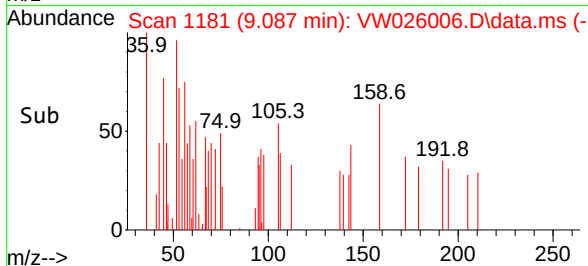
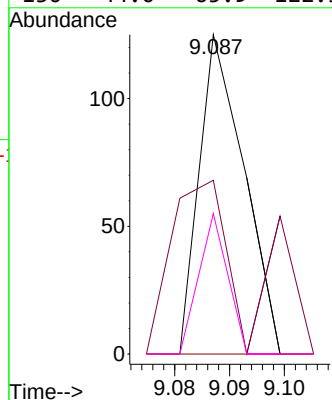
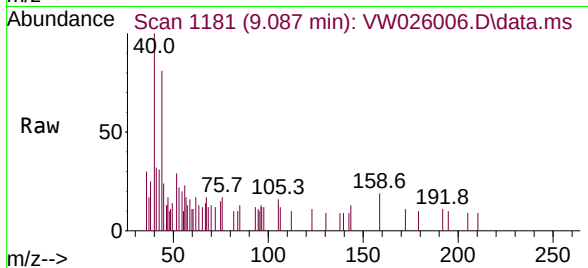
Ion Ratio Lower Upper

95 100

97 54.4 45.9 85.3

132 0.0 66.0 122.6#

130 44.0 65.9 122.3#



#37

1,2-Dichloropropane

Concen: 2.695 ug/L

RT: 9.386 min Scan# 1230

Delta R.T. 0.018 min

Lab File: VW026006.D

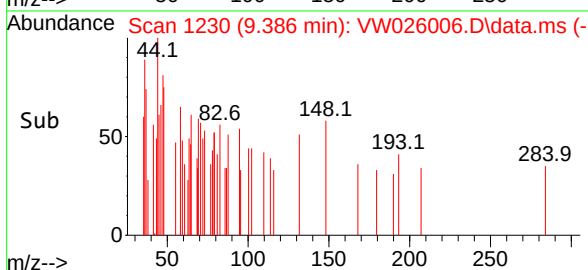
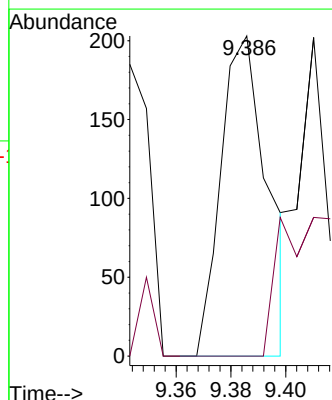
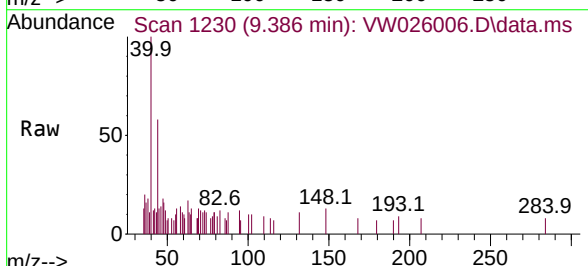
Acq: 19 May 2023 15:40

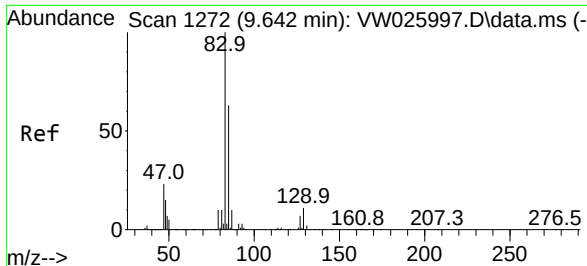
Tgt Ion: 63 Resp: 240

Ion Ratio Lower Upper

63 100

112 22.9 3.3 4.9#

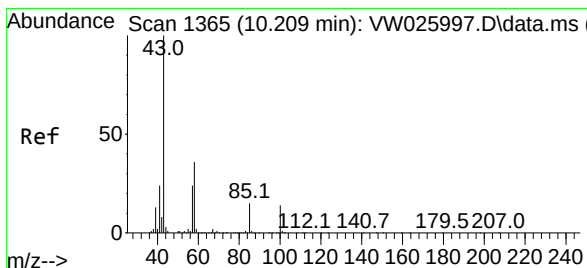
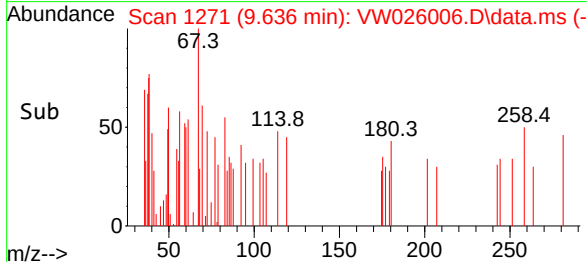
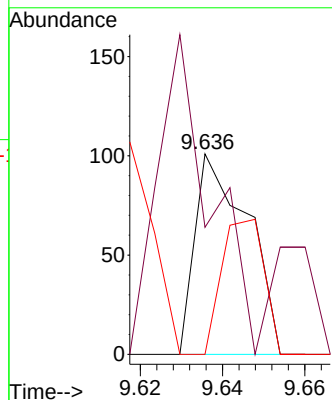
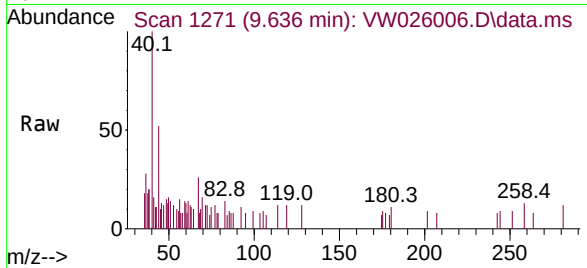




#38
Bromodichloromethane
Concen: 0.881 ug/L
RT: 9.636 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW026006.D
Acq: 19 May 2023 15:40

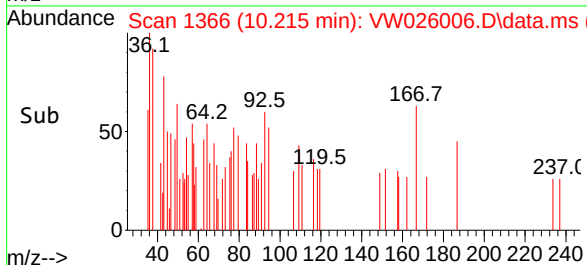
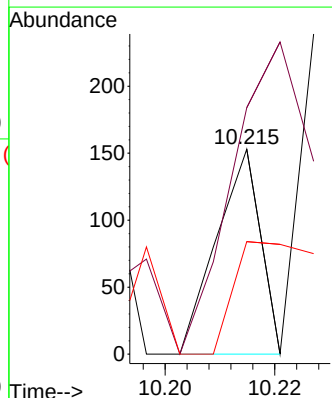
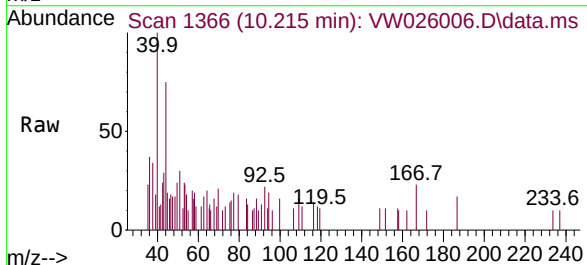
Instrument :
MSVOA_W
ClientSampleId :
H0FJ8

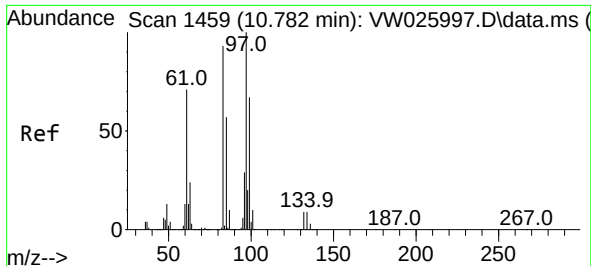
Tgt Ion: 83 Resp: 90
Ion Ratio Lower Upper
83 100
85 63.4 44.4 82.5
127 0.0 6.5 9.7#



#40
4-Methyl-2-pentanone
Concen: 1.466 ug/L
RT: 10.215 min Scan# 1366
Delta R.T. 0.006 min
Lab File: VW026006.D
Acq: 19 May 2023 15:40

Tgt Ion: 43 Resp: 85
Ion Ratio Lower Upper
43 100
58 335.3 29.4 44.0#
100 103.5 10.1 15.1#

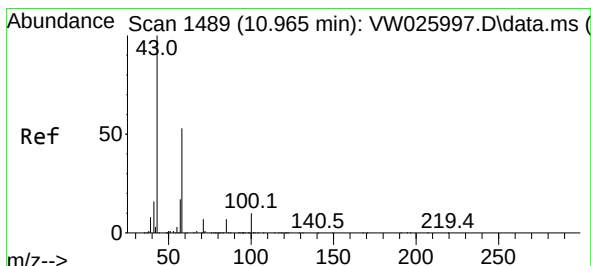
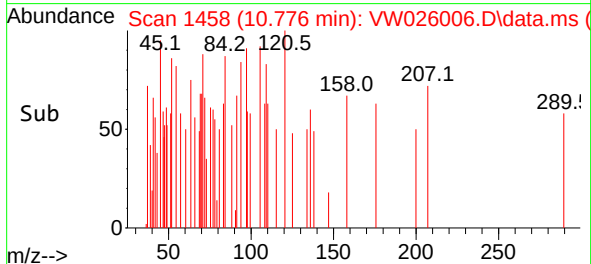
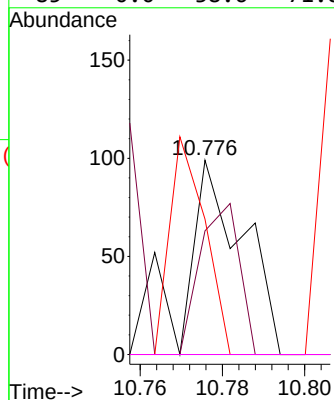
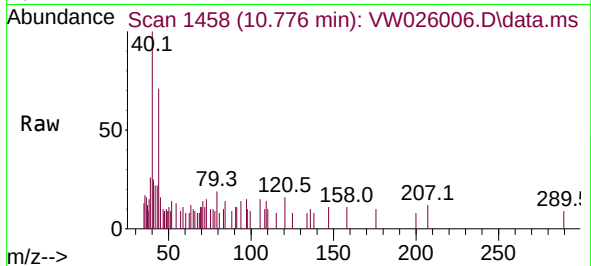




#45
1,1,2-Trichloroethane
Concen: 1.343 ug/L
RT: 10.776 min Scan# 1458
Delta R.T. -0.006 min
Lab File: VW026006.D
Acq: 19 May 2023 15:40

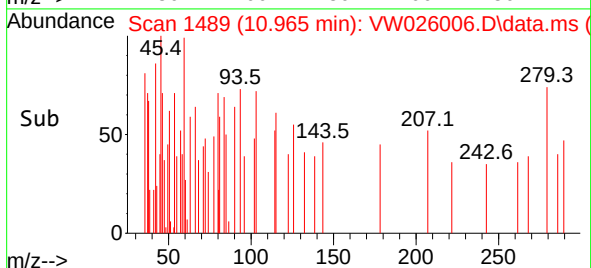
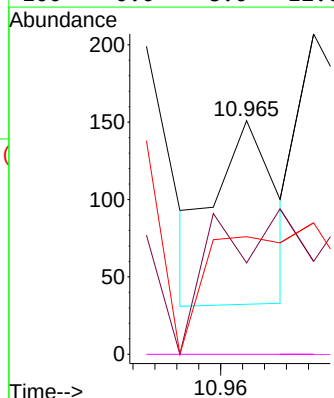
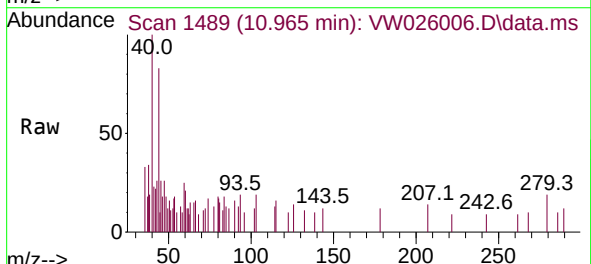
Instrument :
MSVOA_W
ClientSampleId :
H0FJ8

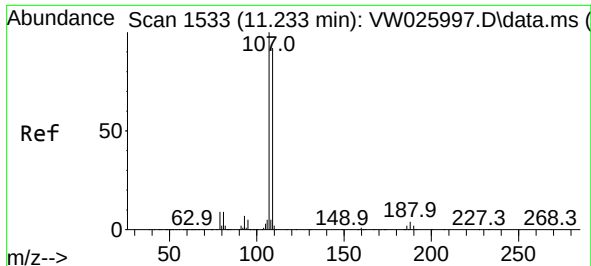
Tgt Ion:	97	Resp:	80
Ion	Ratio	Lower	Upper
97	100		
99	38.7	44.5	82.7#
83	42.3	63.0	117.0#
85	0.0	38.6	71.8#



#48
2-Hexanone
Concen: 2.191 ug/L
RT: 10.965 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VW026006.D
Acq: 19 May 2023 15:40

Tgt Ion:	43	Resp:	91
Ion	Ratio	Lower	Upper
43	100		
58	91.2	40.8	61.2#
57	89.0	13.6	20.4#
100	0.0	8.0	12.0#





#50

1,2-Dibromoethane

Concen: 1.111 ug/L

RT: 11.270 min Scan# 11

Delta R.T. 0.037 min

Lab File: VW026006.D

Acq: 19 May 2023 15:40

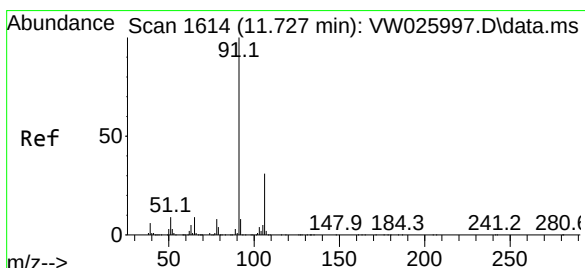
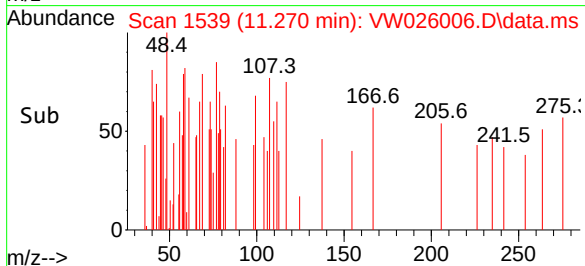
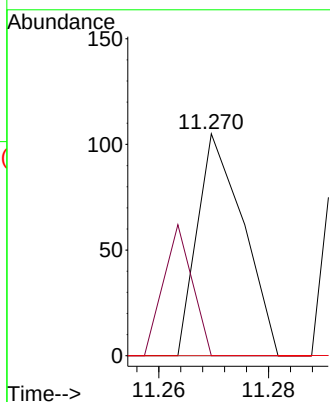
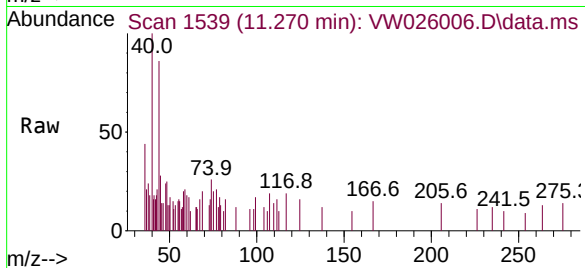
Instrument :

MSVOA_W

ClientSampleId :

H0FJ8

Tgt Ion:107	Resp:	61
Ion Ratio	Lower	Upper
107	100	
109	71.4	67.5 125.4
188	0.0	2.6 4.0#



#52

Ethylbenzene

Concen: 0.656 ug/L

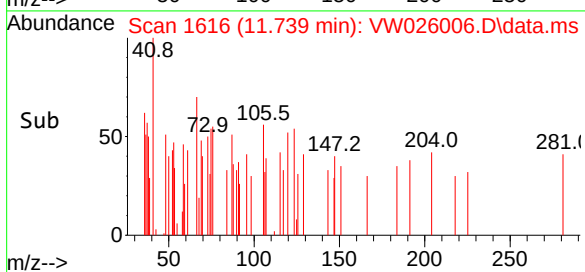
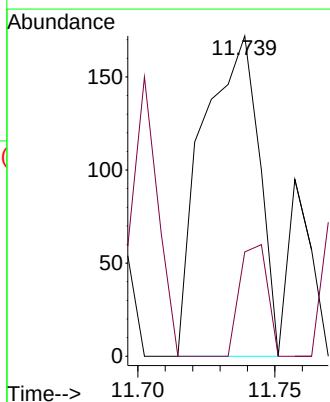
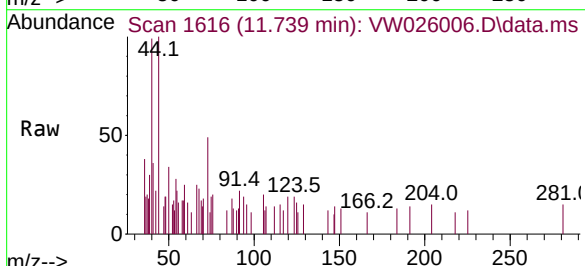
RT: 11.739 min Scan# 1616

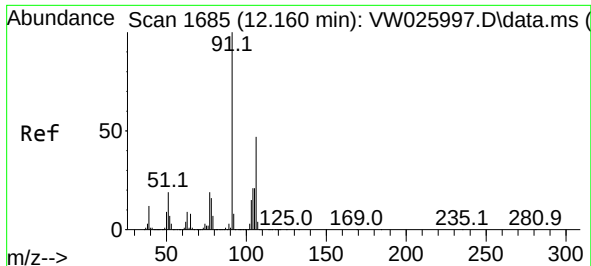
Delta R.T. 0.012 min

Lab File: VW026006.D

Acq: 19 May 2023 15:40

Tgt Ion: 91	Resp:	245
Ion Ratio	Lower	Upper
91	100	
106	32.6	20.8 38.6

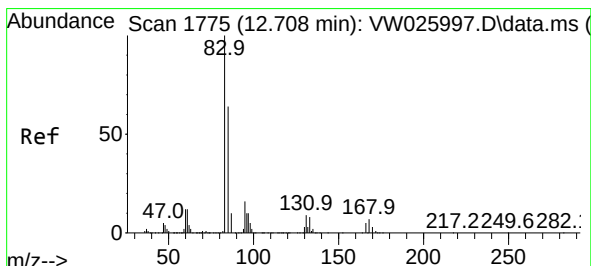
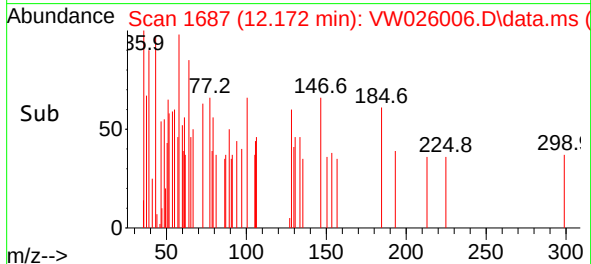
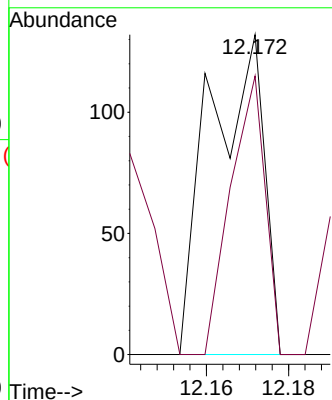
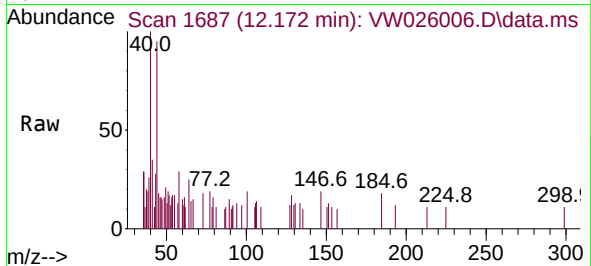




#54
o-Xylene
Concen: 0.926 ug/L
RT: 12.172 min Scan# 1
Delta R.T. 0.012 min
Lab File: VW026006.D
Acq: 19 May 2023 15:40

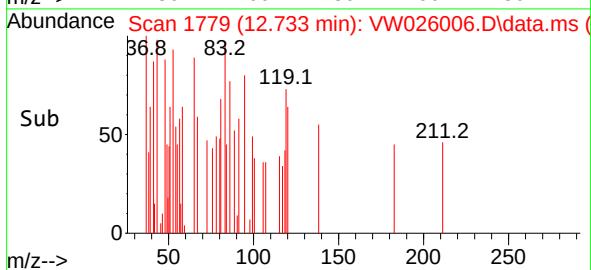
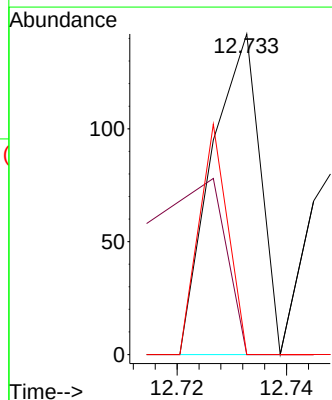
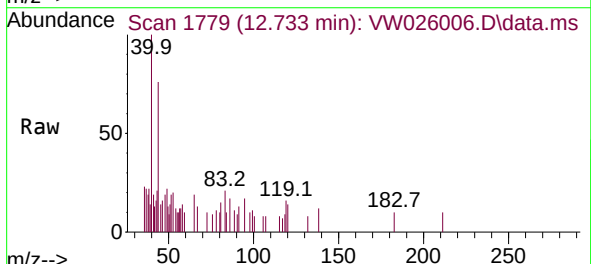
Instrument :
MSVOA_W
ClientSampleId :
H0FJ8

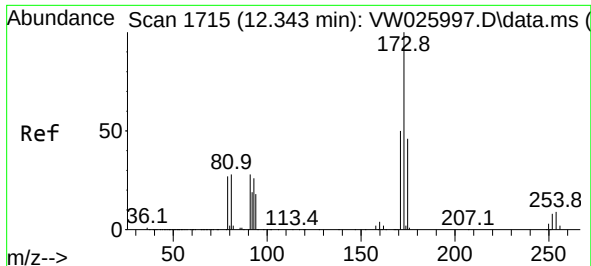
Tgt Ion:106 Resp: 120
Ion Ratio Lower Upper
106 100
91 87.1 157.8 293.1#



#57
1,1,2,2-Tetrachloroethane
Concen: 1.170 ug/L
RT: 12.733 min Scan# 1779
Delta R.T. 0.024 min
Lab File: VW026006.D
Acq: 19 May 2023 15:40

Tgt Ion: 83 Resp: 87
Ion Ratio Lower Upper
83 100
85 0.0 45.6 84.8#
131 0.0 8.1 12.1#

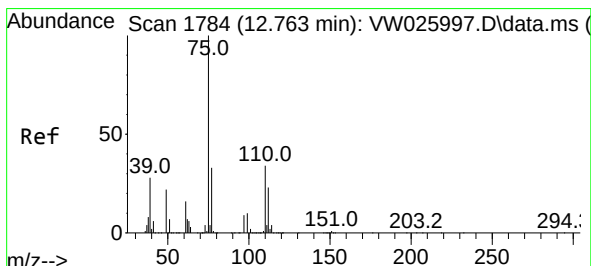
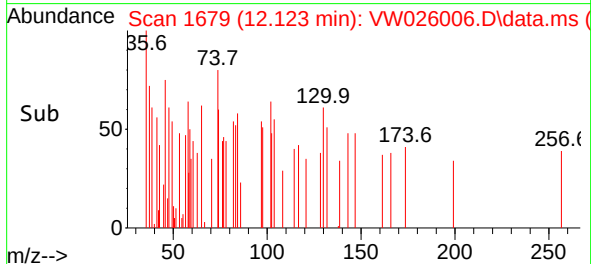
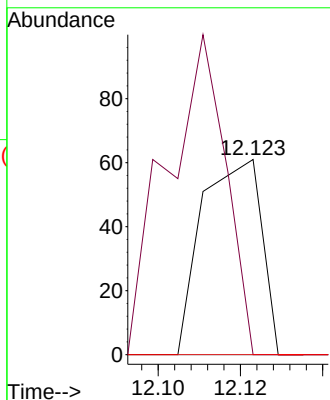
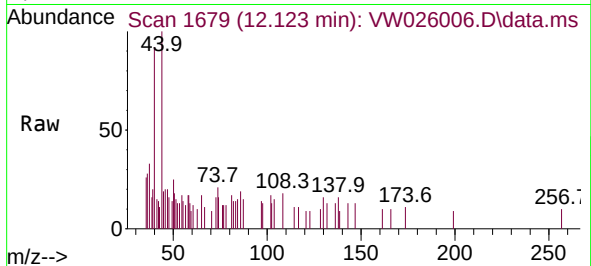




#59
Bromoform
Concen: 2.628 ug/L
RT: 12.123 min Scan# 1715
Delta R.T. -0.220 min
Lab File: VW026006.D
Acq: 19 May 2023 15:40

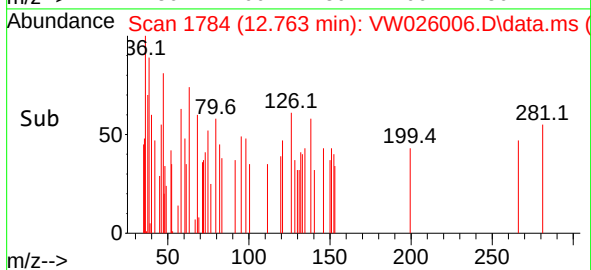
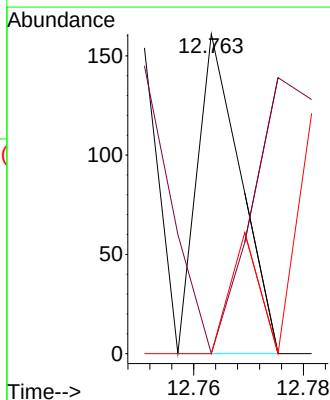
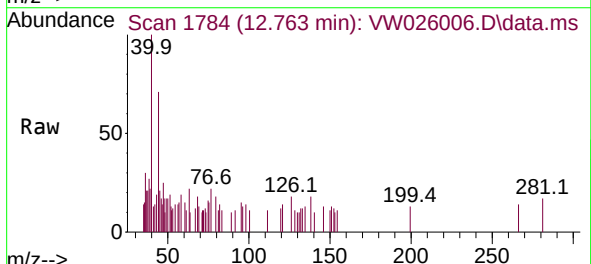
Instrument :
MSVOA_W
ClientSampleId :
H0FJ8

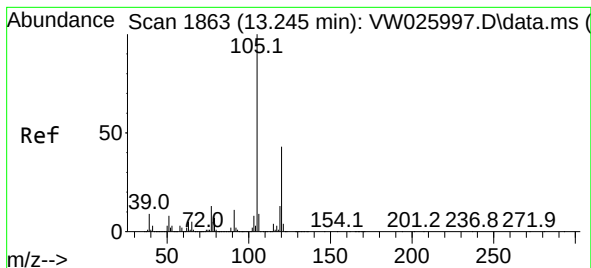
Tgt Ion:173 Resp: 61
Ion Ratio Lower Upper
173 100
175 163.9 38.6 57.8#
254 0.0 7.6 11.4#



#61
1,2,3-Trichloropropane
Concen: 2.376 ug/L
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW026006.D
Acq: 19 May 2023 15:40

Tgt Ion: 75 Resp: 88
Ion Ratio Lower Upper
75 100
77 195.5 25.2 37.8#
110 25.0 27.6 41.4#





#63

1,2,4-Trimethylbenzene

Concen: 0.597 ug/L

RT: 13.251 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW026006.D

Acq: 19 May 2023 15:40

Instrument :

MSVOA_W

ClientSampleId :

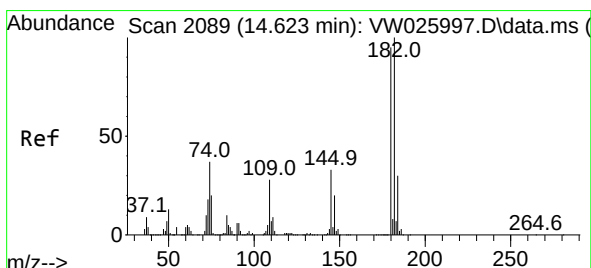
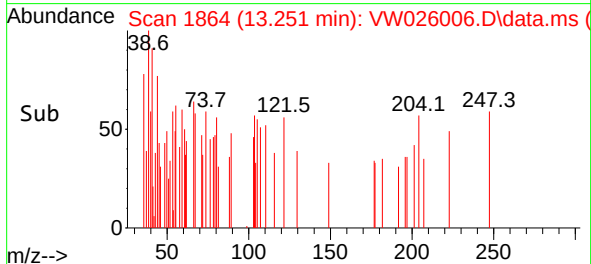
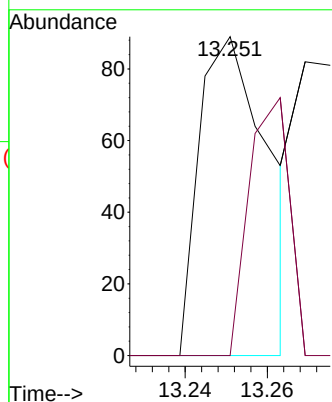
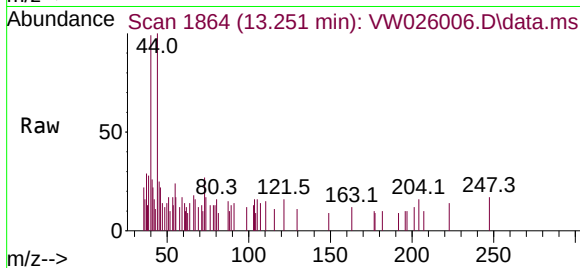
H0FJ8

Tgt Ion:105 Resp: 104

Ion Ratio Lower Upper

105 100

120 0.0 34.7 52.1#



#69

1,3,5-Trichlorobenzene

Concen: 0.926 ug/L

RT: 14.714 min Scan# 2104

Delta R.T. 0.091 min

Lab File: VW026006.D

Acq: 19 May 2023 15:40

Tgt Ion:180 Resp: 63

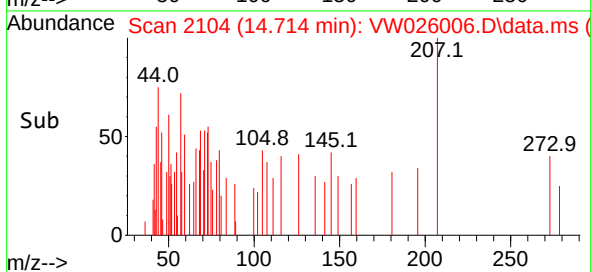
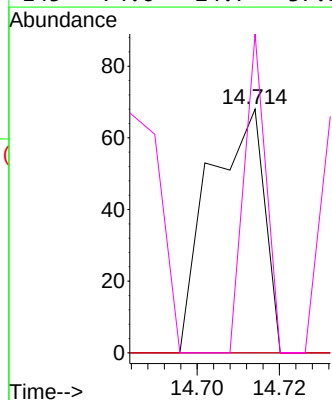
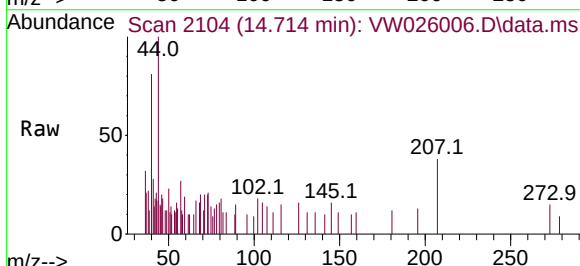
Ion Ratio Lower Upper

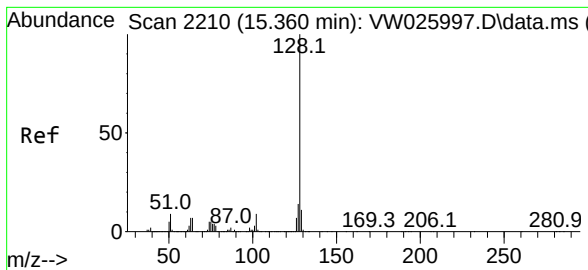
180 100

182 0.0 77.4 116.0#

184 0.0 24.7 37.1#

145 74.6 24.7 37.1#





#71
Naphthalene
Concen: 0.706 ug/L
RT: 15.537 min Scan# 21
Delta R.T. 0.177 min
Lab File: VW026006.D
Acq: 19 May 2023 15:40

Instrument :
MSVOA_W
ClientSampleId :
H0FJ8

Tgt Ion	Ratio	Lower	Upper
128	100		
127	75.0	10.5	15.7#
129	0.0	8.5	12.7#

