

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW082523\
 Data File : VW026917.D
 Acq On : 26 Aug 2023 01:03
 Operator : SY/MD
 Sample : 04175-05
 Misc : 5.76g/10mL/MSVOA_W/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 28 01:07:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM081023SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sat Aug 26 05:14:45 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	9631	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.636	117	6928	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	2445	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.351	65	2745	17.338	ug/L	-0.02
Spiked Amount	25.000	Range	30 - 150	Recovery	=	69.360%
7) Chloroethane-d5	2.649	69	229	1.945	ug/L	-0.24
Spiked Amount	25.000	Range	30 - 150	Recovery	=	7.800%#
11) 1,1-Dichloroethene-d2	4.027	65	760	9.760	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	39.040%#
21) 2-Butanone-d5	7.112	46	1090	23.953	ug/L	0.03
Spiked Amount	50.000	Range	20 - 135	Recovery	=	47.900%
24) Chloroform-d	7.655	84	8100	25.059	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	100.240%
26) 1,2-Dichloroethane-d4	8.465	65	89	0.499	ug/L	0.16
Spiked Amount	25.000	Range	70 - 130	Recovery	=	2.000%#
32) Benzene-d6	8.276	84	13632	28.550	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	114.200%
36) 1,2-Dichloropropane-d6	9.270	67	5536	37.222	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	148.880%#
41) Toluene-d8	10.325	98	8367	20.414	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	81.640%
43) trans-1,3-Dichloroprop...	10.587	79	1785	29.068	ug/L	0.01
Spiked Amount	25.000	Range	30 - 135	Recovery	=	116.280%
47) 2-Hexanone-d5	10.971	63	63	4.031	ug/L	0.05
Spiked Amount	50.000	Range	20 - 135	Recovery	=	8.060%#
56) 1,1,2,2-Tetrachloroeth...	12.690	84	3212	27.347	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	109.400%
66) 1,2-Dichlorobenzene-d4	13.849	152	2104	24.042	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	96.160%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.027	85	106	0.809	ug/L #	43
3) Chloromethane	2.277	50	540	3.016	ug/L	99
5) Vinyl chloride	2.430	62	302	1.764	ug/L	97
8) Chloroethane	3.143	64	164	1.599	ug/L	89
9) Trichlorofluoromethane	3.192	101	109	0.776	ug/L	85
13) Acetone	4.112	43	313	6.918	ug/L	84
15) Methyl Acetate	4.716	43	102	1.125	ug/L	93
18) Methyl tert-butyl Ether	5.417	73	172	0.716	ug/L #	72
22) 2-Butanone	7.155	43	195	2.924	ug/L #	6
25) Chloroform	7.685	83	376	1.190	ug/L	95
27) 1,2-Dichloroethane	8.410	62	195	0.885	ug/L #	75
29) Cyclohexane	7.947	56	255	1.190	ug/L #	35
35) Methylcyclohexane	9.343	83	134	0.610	ug/L #	37
37) 1,2-Dichloropropane	9.374	63	100	0.724	ug/L #	88
39) cis-1,3-Dichloropropene	10.075	75	166	0.835	ug/L	91
45) 1,1,2-Trichloroethane	10.794	97	80	0.846	ug/L #	54
48) 2-Hexanone	10.983	43	220	3.597	ug/L #	1
49) Dibromochloromethane	11.172	129	80	0.809	ug/L	99
52) Ethylbenzene	11.733	91	375	0.655	ug/L #	38

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

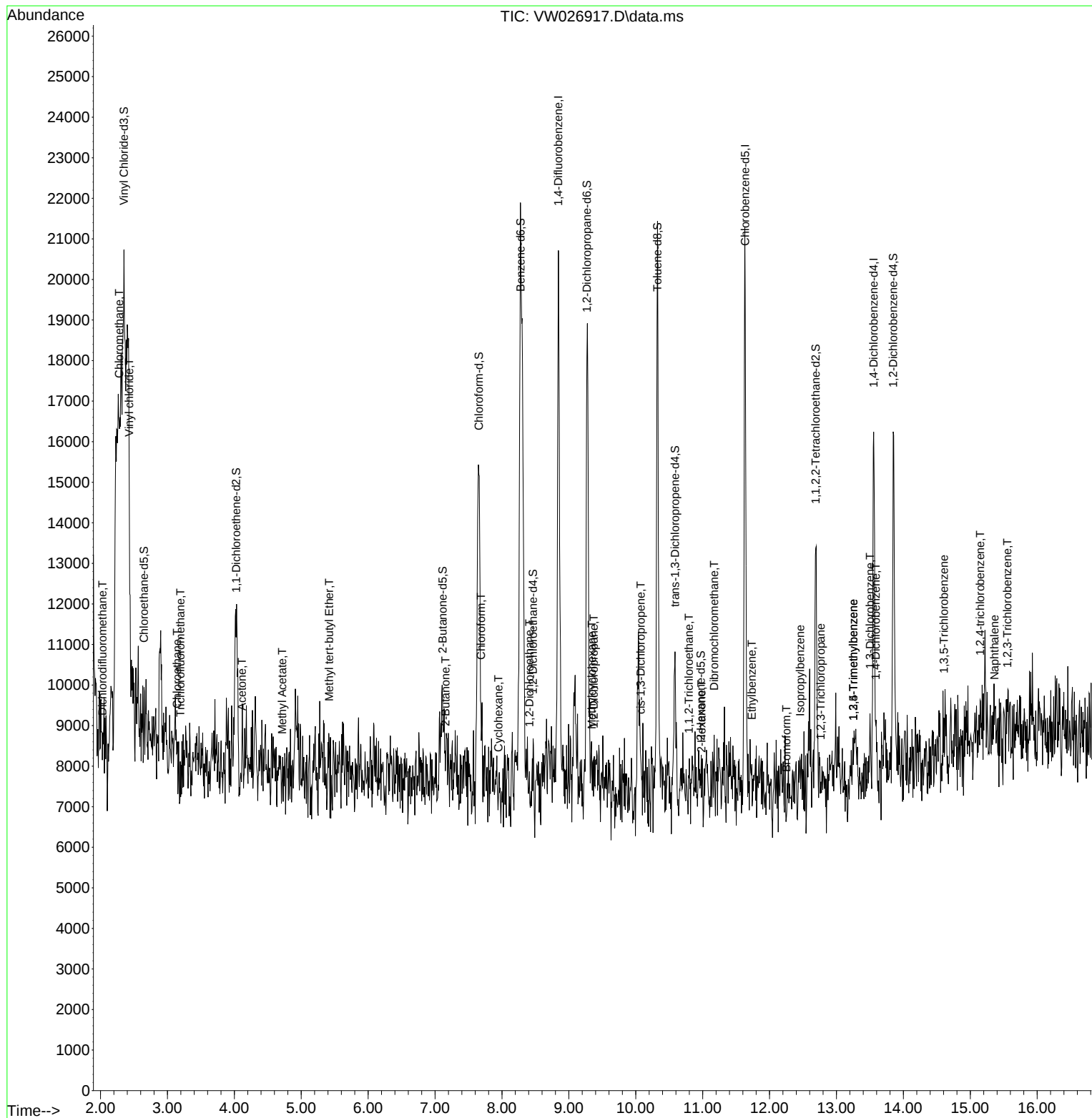
59) Bromoform	12.251	173	40	1.044	ug/L #		1
60) Isopropylbenzene	12.459	105	224	0.616	ug/L #		6
61) 1,2,3-Trichloropropane	12.763	75	205	3.457	ug/L #		92
62) 1,3,5-Trimethylbenzene	13.251	105	256	0.891	ug/L		94
63) 1,2,4-Trimethylbenzene	13.251	105	256	0.909	ug/L		96
64) 1,3-Dichlorobenzene	13.501	146	355	2.246	ug/L		88
65) 1,4-Dichlorobenzene	13.586	146	210	1.273	ug/L #		28
69) 1,3,5-Trichlorobenzene	14.604	180	72	0.674	ug/L #		25
70) 1,2,4-trichlorobenzene	15.147	180	118	1.303	ug/L #		78
71) Naphthalene	15.360	128	237	1.372	ug/L #		1
72) 1,2,3-Trichlorobenzene	15.556	180	153	1.873	ug/L #		24

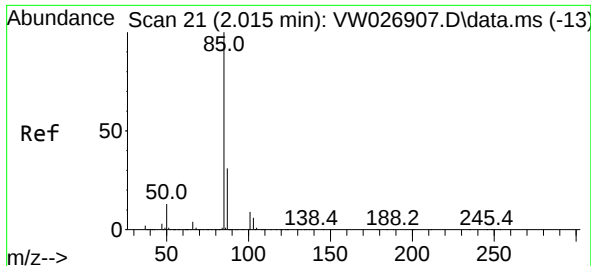
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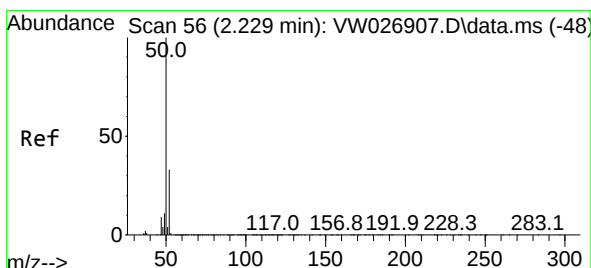
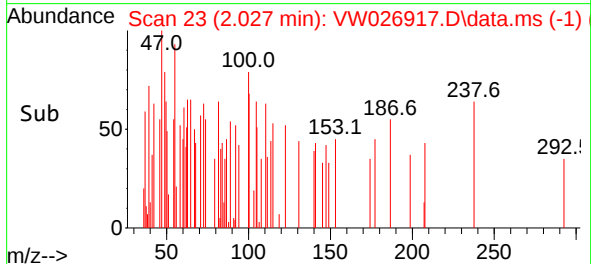
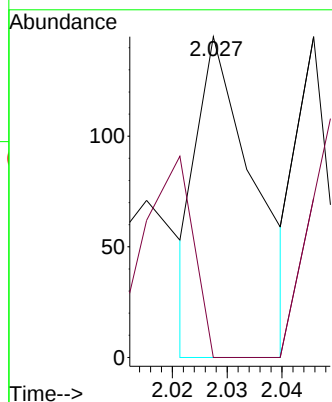
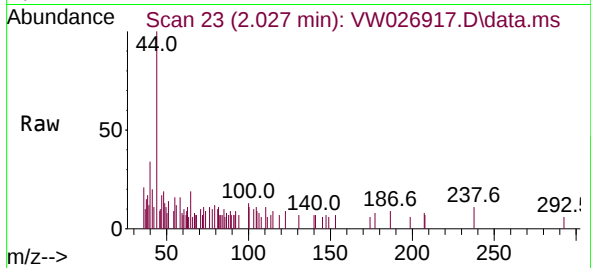




#2
 Dichlorodifluoromethane
 Concen: 0.809 ug/L
 RT: 2.027 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VW026917.D
 Acq: 26 Aug 2023 01:03

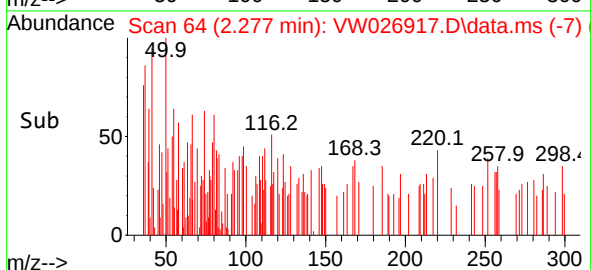
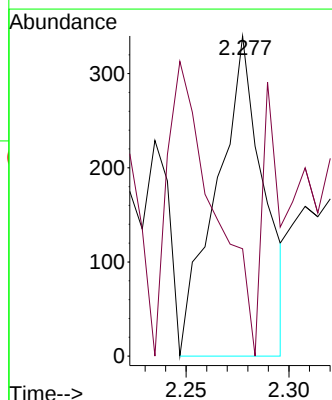
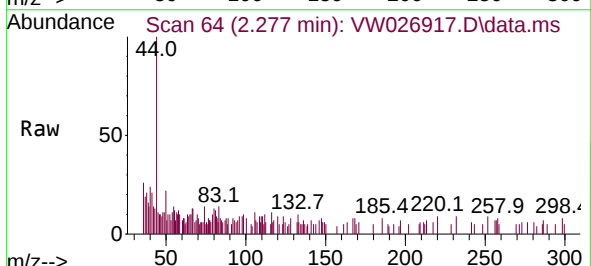
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 ClientSampleId :

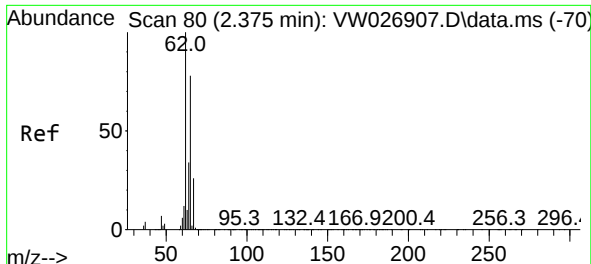
Tgt Ion: 85 Resp: 106
 Ion Ratio Lower Upper
 85 100
 87 52.8 19.5 29.3#



#3
 Chloromethane
 Concen: 3.016 ug/L
 RT: 2.277 min Scan# 64
 Delta R.T. 0.049 min
 Lab File: VW026917.D
 Acq: 26 Aug 2023 01:03

Tgt Ion: 50 Resp: 540
 Ion Ratio Lower Upper
 50 100
 52 33.5 23.0 42.8

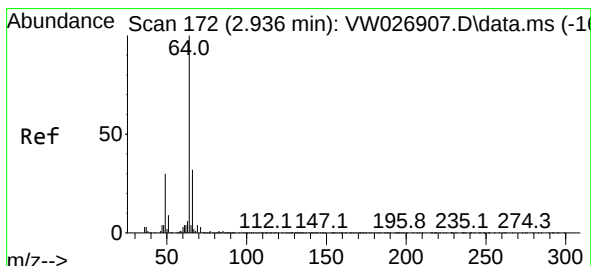
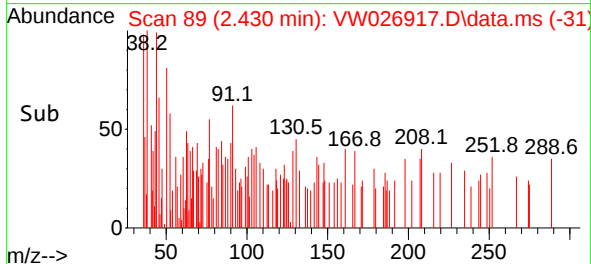
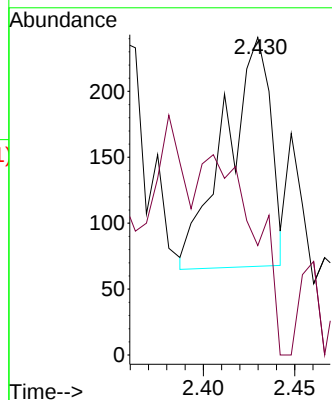
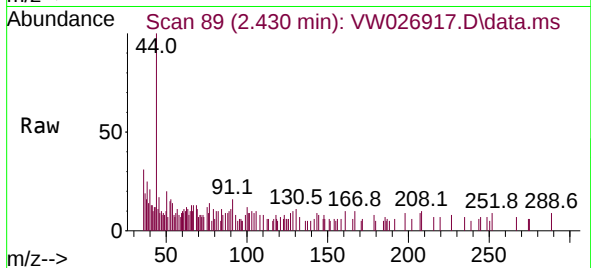




#5
 Vinyl chloride
 Concen: 1.764 ug/L
 RT: 2.430 min Scan# 80
 Delta R.T. 0.055 min
 Lab File: VW026917.D
 Acq: 26 Aug 2023 01:03

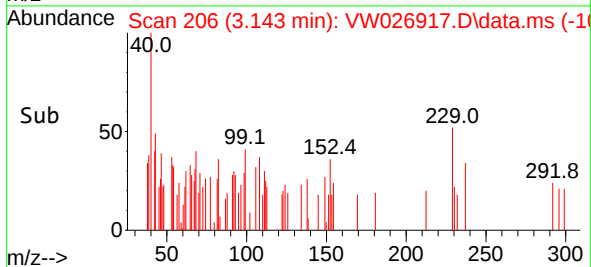
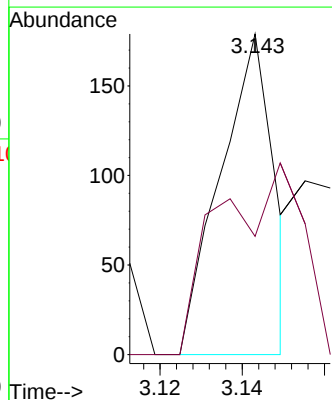
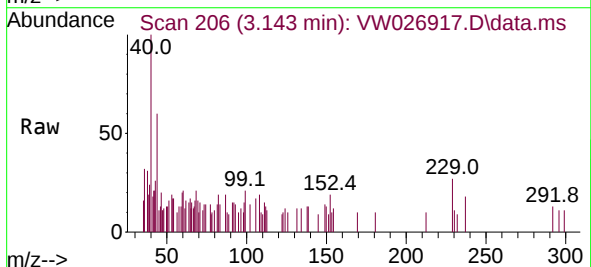
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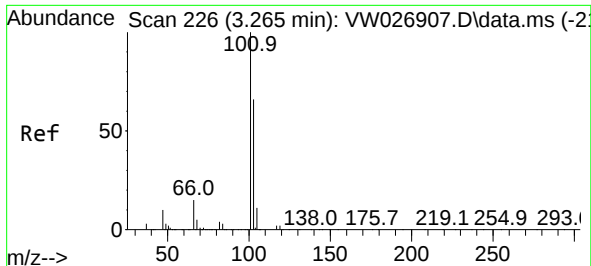
Tgt Ion: 62 Resp: 302
 Ion Ratio Lower Upper
 62 100
 64 34.4 22.7 42.3



#8
 Chloroethane
 Concen: 1.599 ug/L
 RT: 3.143 min Scan# 206
 Delta R.T. 0.207 min
 Lab File: VW026917.D
 Acq: 26 Aug 2023 01:03

Tgt Ion: 64 Resp: 164
 Ion Ratio Lower Upper
 64 100
 66 36.9 21.7 40.3

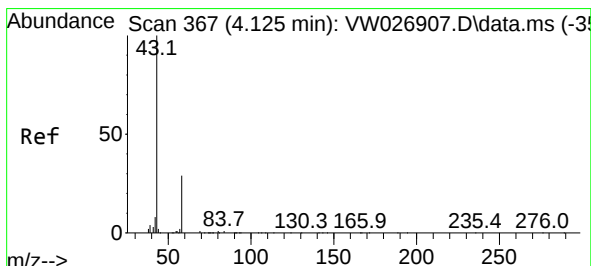
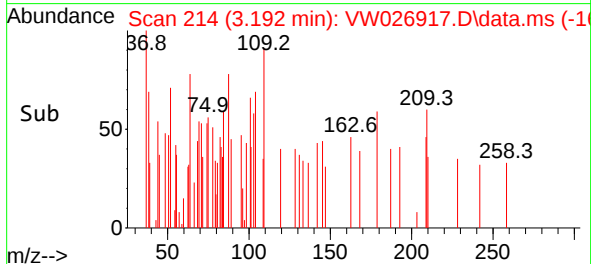
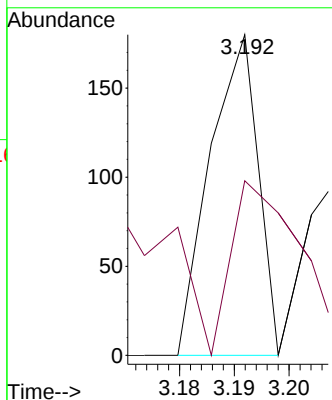
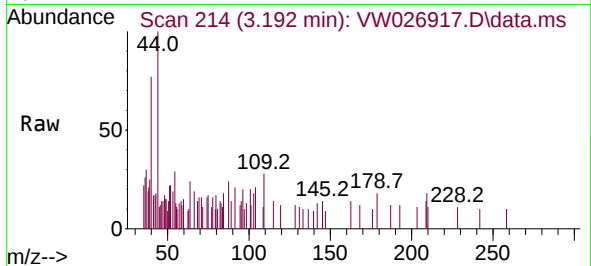




#9
 Trichlorofluoromethane
 Concen: 0.776 ug/L
 RT: 3.192 min Scan# 214
 Delta R.T. -0.073 min
 Lab File: VW026917.D
 Acq: 26 Aug 2023 01:03

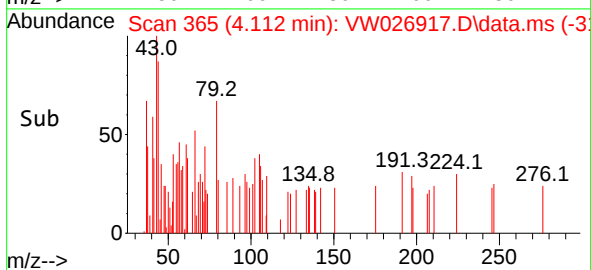
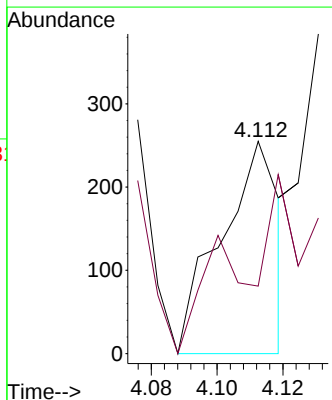
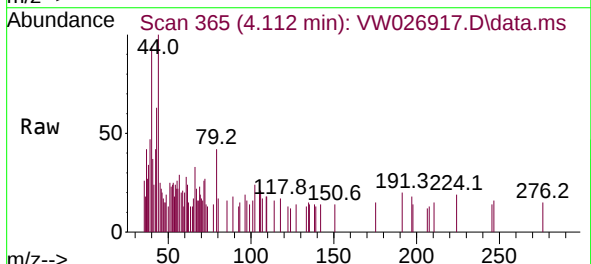
Instrument :
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 ClientSampleId :

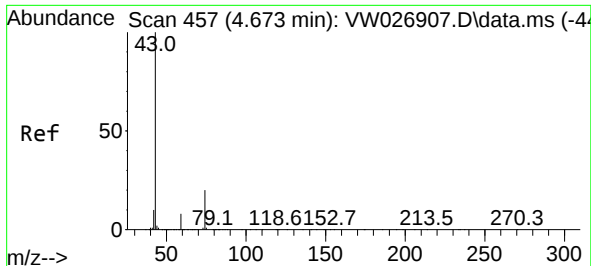
Tgt Ion:101 Resp: 109
 Ion Ratio Lower Upper
 101 100
 103 77.1 51.9 77.9



#13
 Acetone
 Concen: 6.918 ug/L
 RT: 4.112 min Scan# 365
 Delta R.T. -0.012 min
 Lab File: VW026917.D
 Acq: 26 Aug 2023 01:03

Tgt Ion: 43 Resp: 313
 Ion Ratio Lower Upper
 43 100
 58 37.4 0.0 57.4

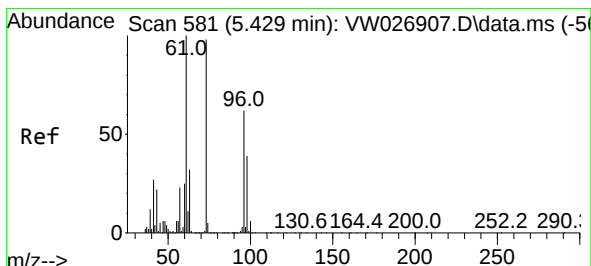
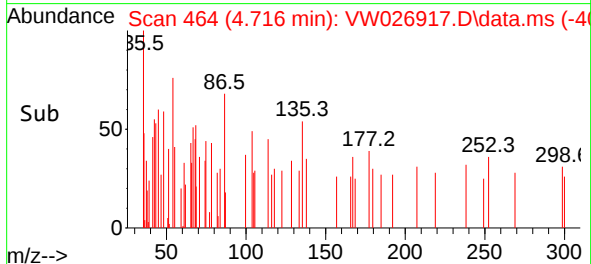
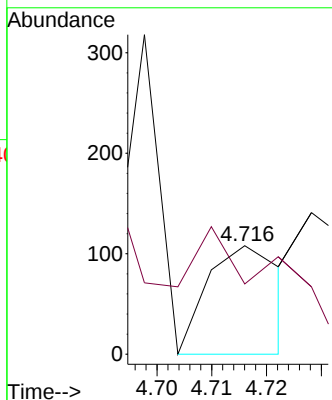
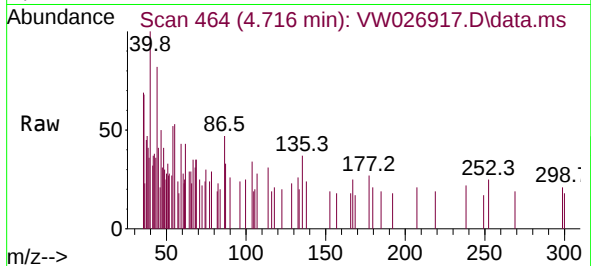




#15
Methyl Acetate
Concen: 1.125 ug/L
RT: 4.716 min Scan# 4
Delta R.T. 0.043 min
Lab File: VW026917.D
Acq: 26 Aug 2023 01:03

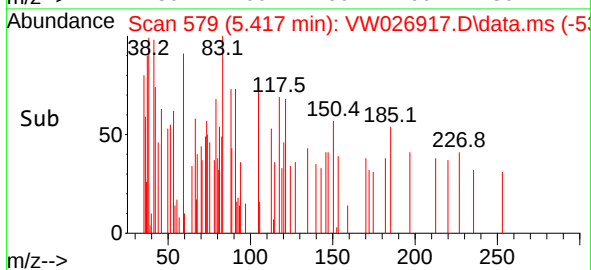
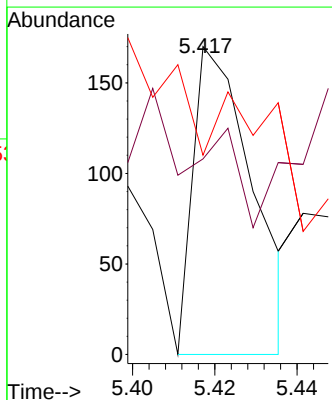
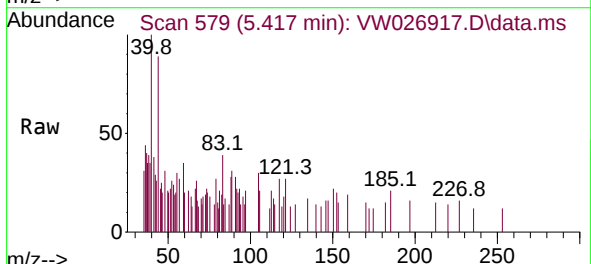
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ClientSampleId :

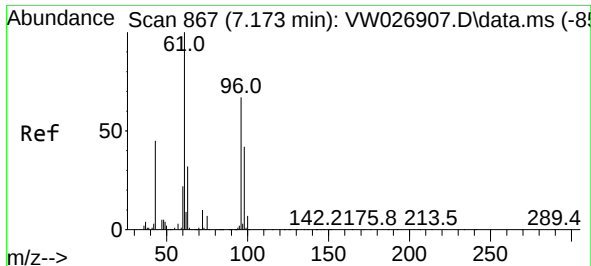
Tgt Ion: 43 Resp: 102
Ion Ratio Lower Upper
43 100
74 23.5 16.4 24.6



#18
Methyl tert-butyl Ether
Concen: 0.716 ug/L
RT: 5.417 min Scan# 579
Delta R.T. -0.012 min
Lab File: VW026917.D
Acq: 26 Aug 2023 01:03

Tgt Ion: 73 Resp: 172
Ion Ratio Lower Upper
73 100
43 19.8 18.0 27.0
57 0.0 19.3 28.9#

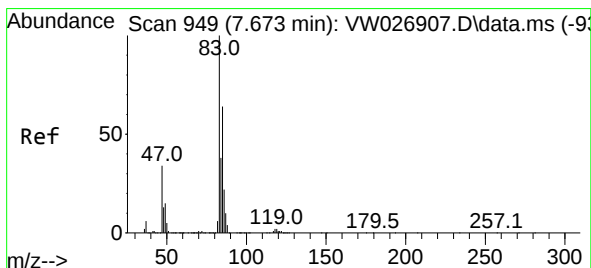
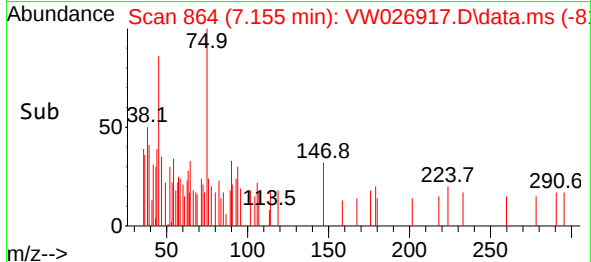
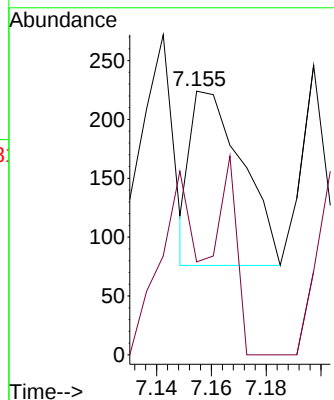
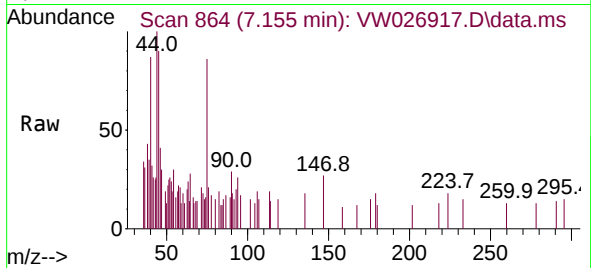




#22
2-Butanone
Concen: 2.924 ug/L
RT: 7.155 min Scan# 864
Delta R.T. -0.018 min
Lab File: VW026917.D
Acq: 26 Aug 2023 01:03

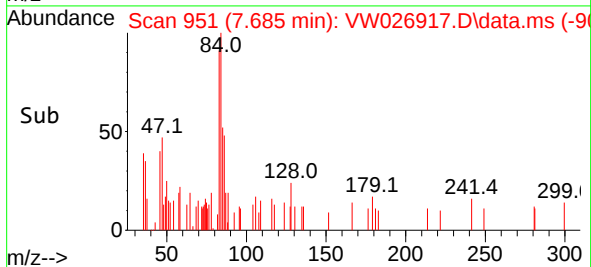
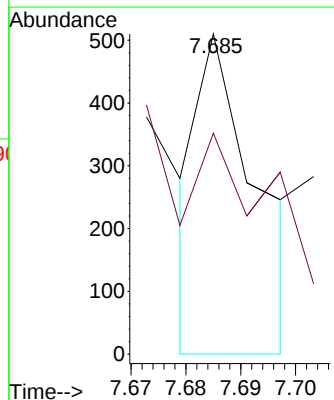
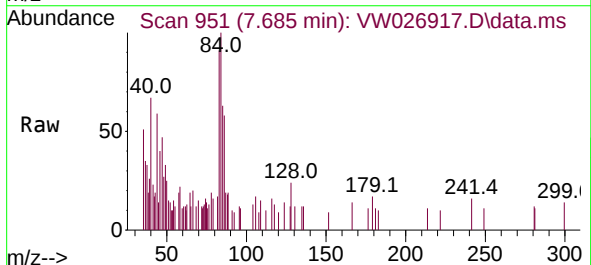
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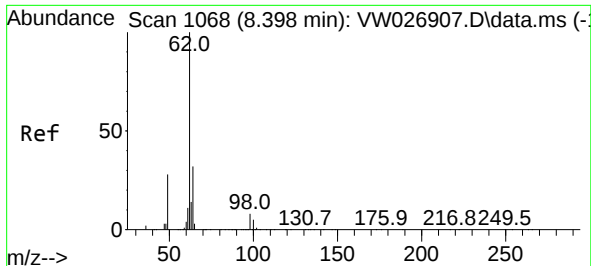
Tgt Ion: 43 Resp: 195
Ion Ratio Lower Upper
43 100
72 69.7 11.8 35.4#



#25
Chloroform
Concen: 1.190 ug/L
RT: 7.685 min Scan# 951
Delta R.T. 0.012 min
Lab File: VW026917.D
Acq: 26 Aug 2023 01:03

Tgt Ion: 83 Resp: 376
Ion Ratio Lower Upper
83 100
85 69.0 45.4 84.2





#27

1,2-Dichloroethane

Concen: 0.885 ug/L

RT: 8.410 min Scan# 1068

Delta R.T. 0.012 min

Lab File: VW026917.D

Acq: 26 Aug 2023 01:03

Instrument :

MSVOA_W

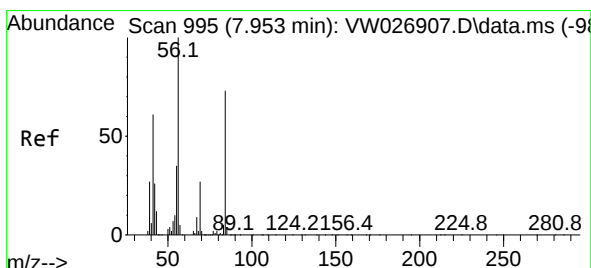
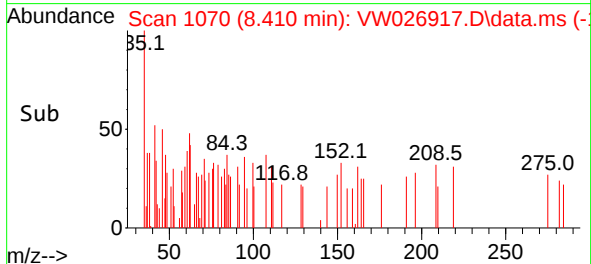
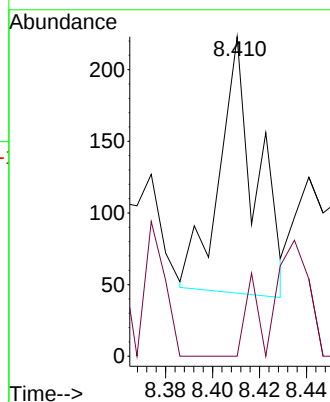
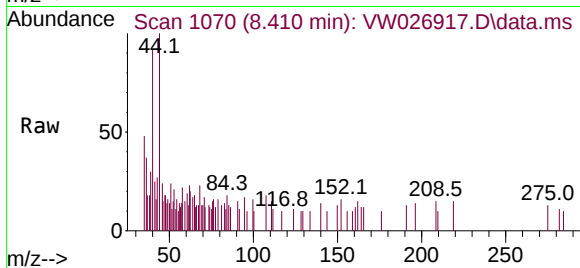
ClientSampleId :

Tgt Ion: 62 Resp: 195

Ion Ratio Lower Upper

62 100

98 0.0 7.1 10.7#



#29

Cyclohexane

Concen: 1.190 ug/L

RT: 7.947 min Scan# 994

Delta R.T. -0.006 min

Lab File: VW026917.D

Acq: 26 Aug 2023 01:03

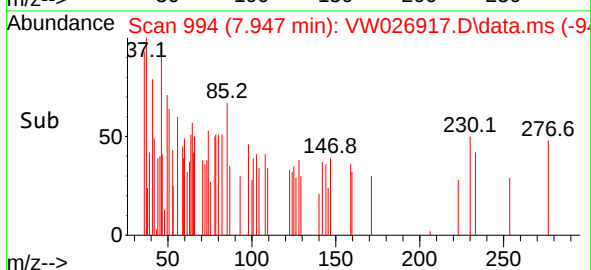
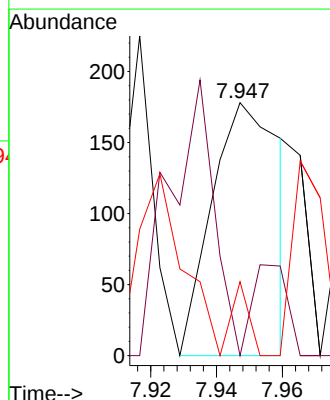
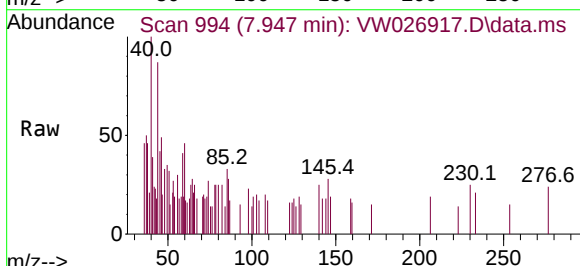
Tgt Ion: 56 Resp: 255

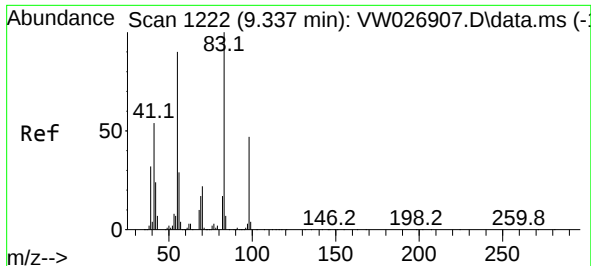
Ion Ratio Lower Upper

56 100

69 18.0 23.2 34.8#

84 7.5 62.7 94.1#





#35

Methylcyclohexane

Concen: 0.610 ug/L

RT: 9.343 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW026917.D

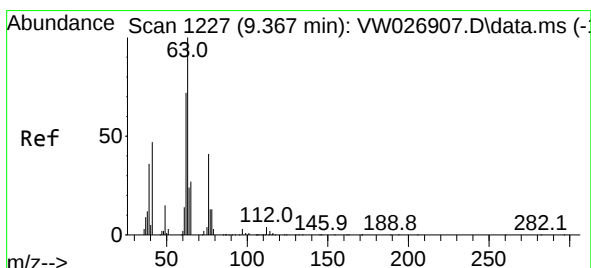
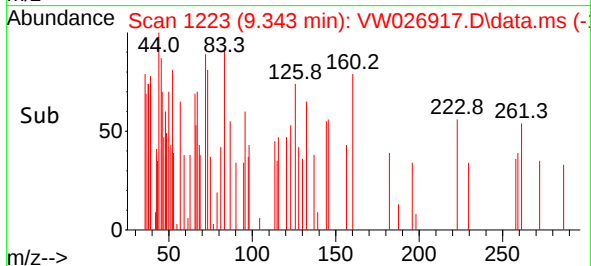
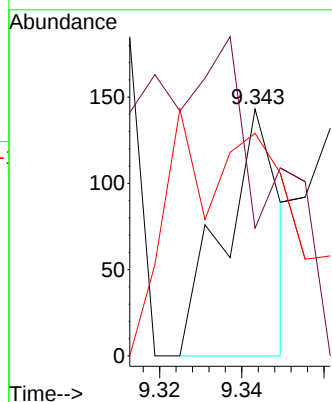
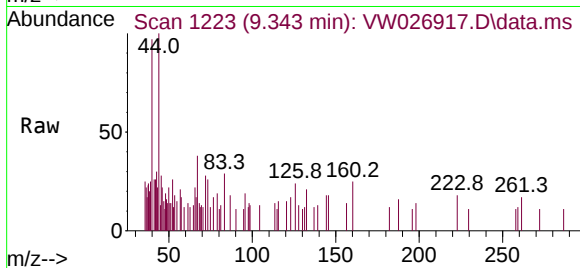
Acq: 26 Aug 2023 01:03

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	83	Resp:	134
Ion	Ratio	Lower	Upper
83	100		
55	57.5	69.3	103.9#
98	127.6	37.4	56.0#



#37

1,2-Dichloropropane

Concen: 0.724 ug/L

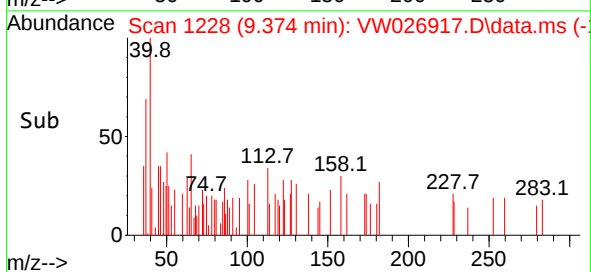
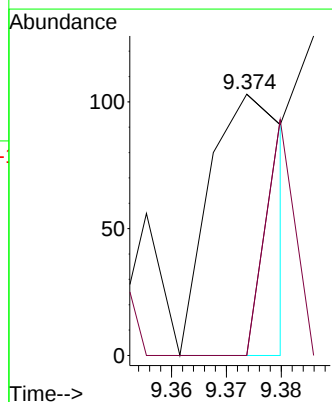
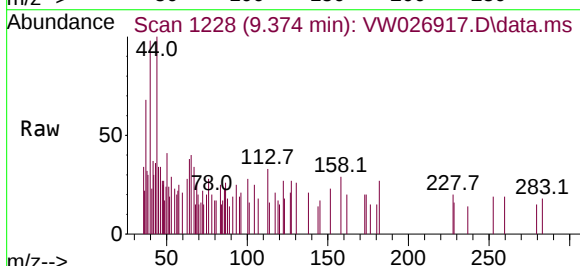
RT: 9.374 min Scan# 1228

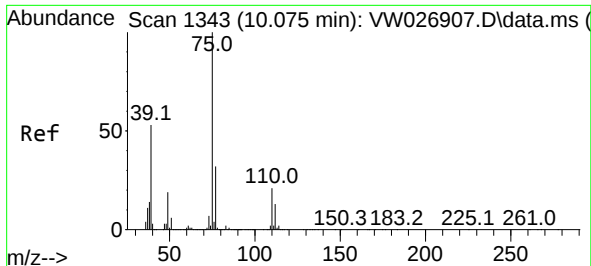
Delta R.T. 0.006 min

Lab File: VW026917.D

Acq: 26 Aug 2023 01:03

Tgt Ion:	63	Resp:	100
Ion	Ratio	Lower	Upper
63	100		
112	0.0	3.1	4.7#





#39

cis-1,3-Dichloropropene

Concen: 0.835 ug/L

RT: 10.075 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW026917.D

Acq: 26 Aug 2023 01:03

Instrument :

MSVOA_W

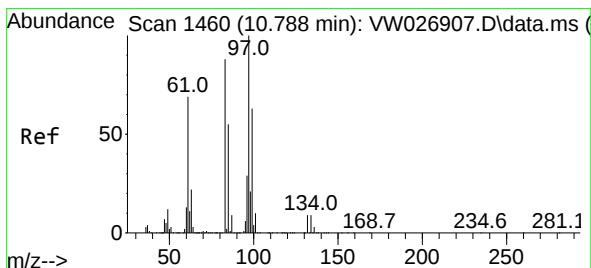
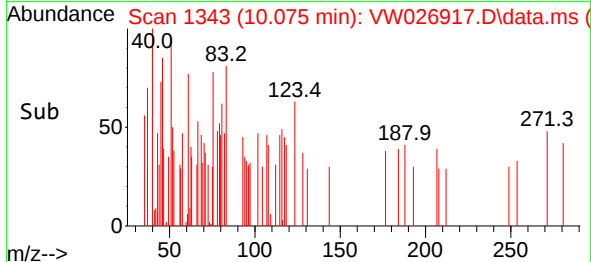
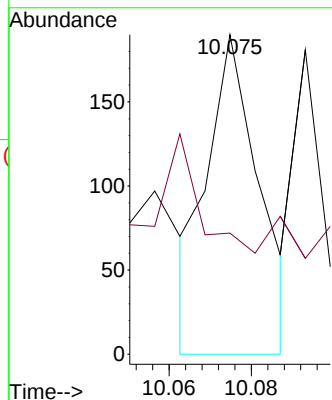
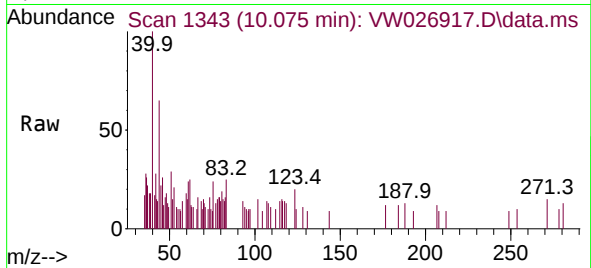
ClientSampleId :

Tgt Ion: 75 Resp: 166

Ion Ratio Lower Upper

75 100

77 37.9 22.8 42.4



#45

1,1,2-Trichloroethane

Concen: 0.846 ug/L

RT: 10.794 min Scan# 1461

Delta R.T. 0.006 min

Lab File: VW026917.D

Acq: 26 Aug 2023 01:03

Tgt Ion: 97 Resp: 80

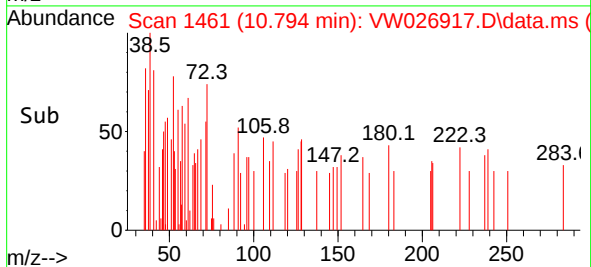
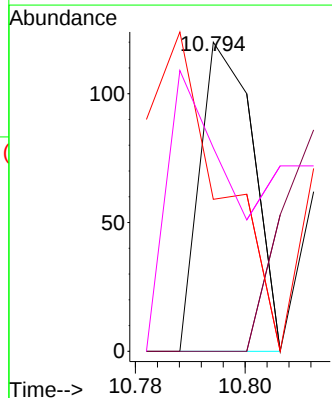
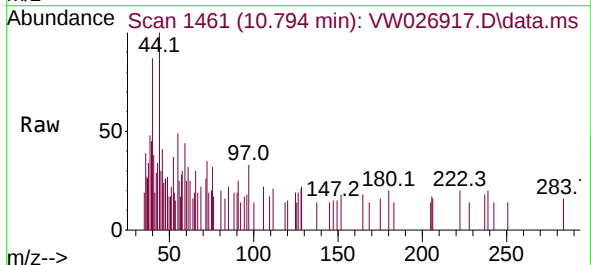
Ion Ratio Lower Upper

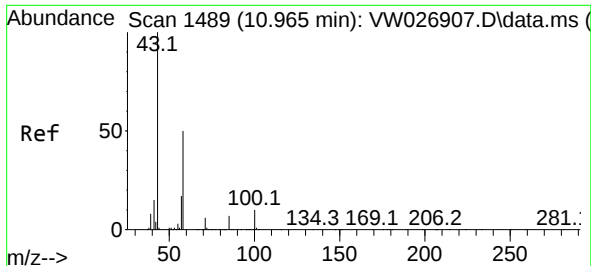
97 100

99 0.0 44.2 82.0#

83 49.2 61.9 114.9#

85 65.8 40.0 74.2

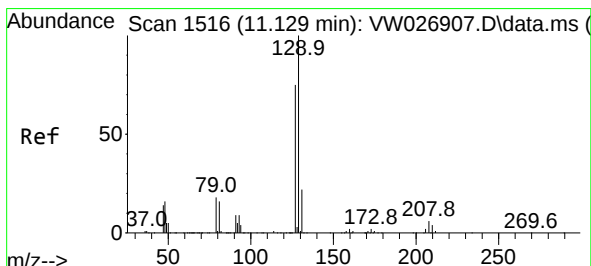
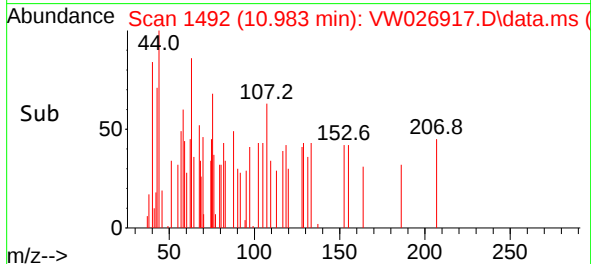
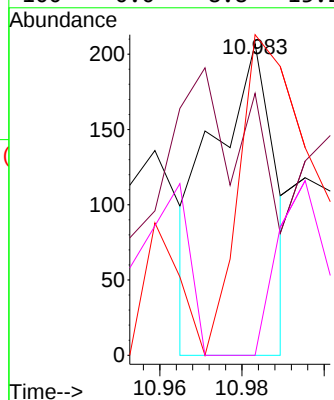
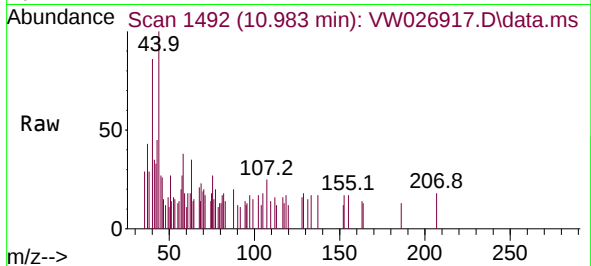




#48
2-Hexanone
Concen: 3.597 ug/L
RT: 10.983 min Scan# 1489
Delta R.T. 0.018 min
Lab File: VW026917.D
Acq: 26 Aug 2023 01:03

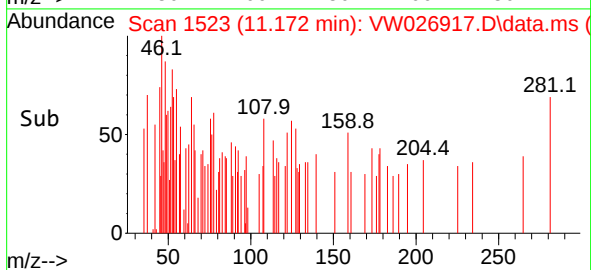
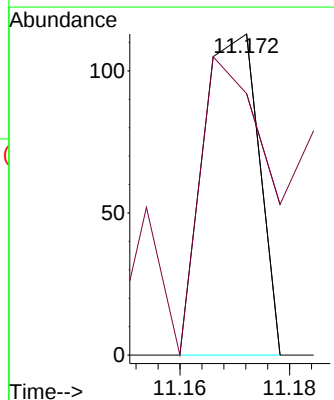
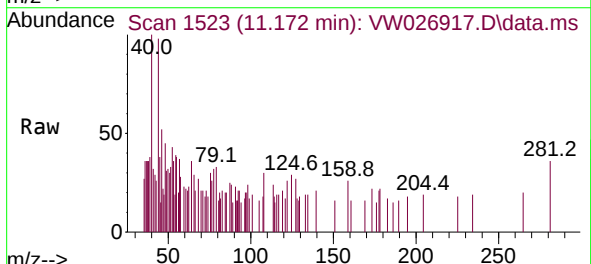
Instrument :
MSVOA_W
ClientSampleId :

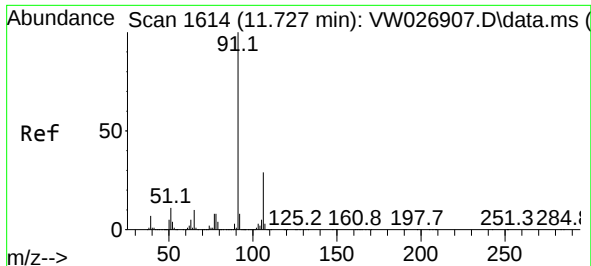
Tgt Ion: 43	Resp: 220
Ion Ratio	Lower Upper
43 100	
58 0.0	41.1 61.7#
57 117.7	14.3 21.5#
100 0.0	8.8 13.2#



#49
Dibromochloromethane
Concen: 0.809 ug/L
RT: 11.172 min Scan# 1523
Delta R.T. 0.043 min
Lab File: VW026917.D
Acq: 26 Aug 2023 01:03

Tgt Ion:129	Resp:	80	
Ion	Ratio	Lower	Upper
129	100		
127	81.4	56.6	105.2

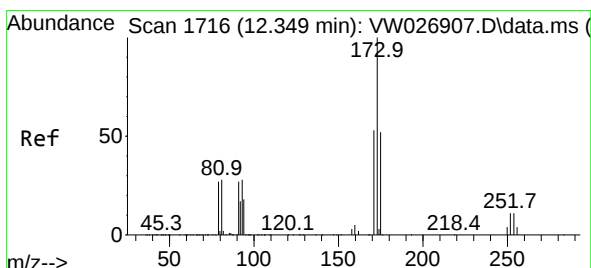
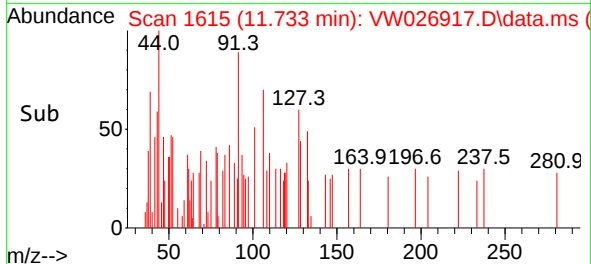
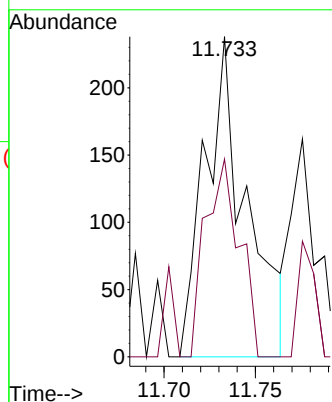
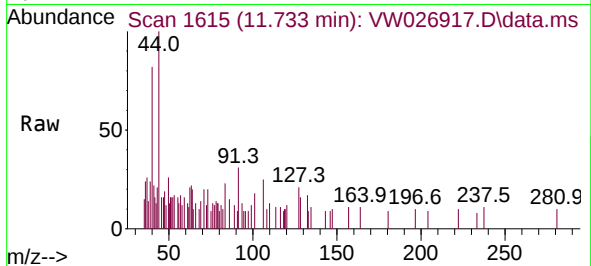




#52
Ethylbenzene
Concen: 0.655 ug/L
RT: 11.733 min Scan# 11700
Delta R.T. 0.006 min
Lab File: VW026917.D
Acq: 26 Aug 2023 01:03

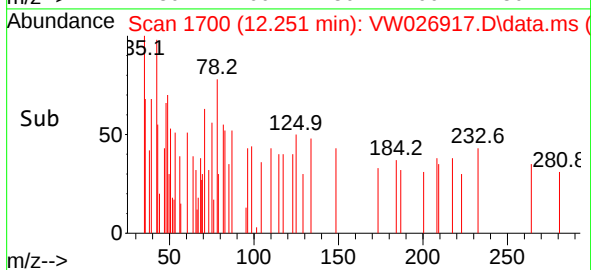
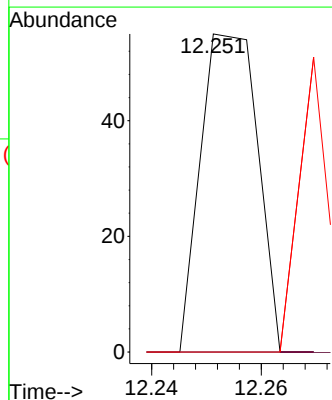
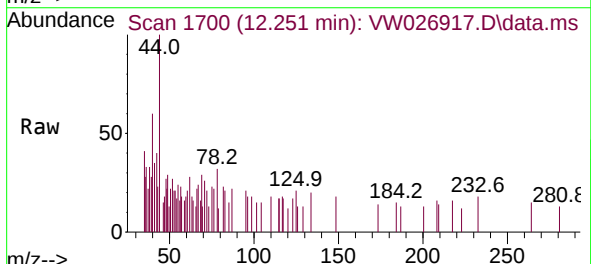
Instrument :
MSVOA_W
ClientSampleId :

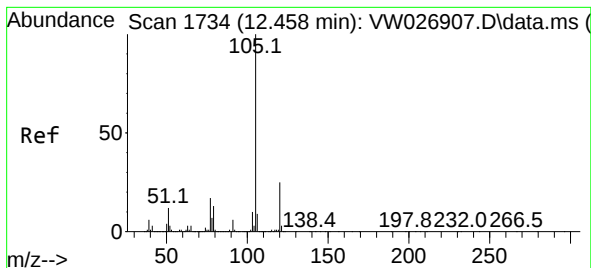
Tgt Ion: 91 Resp: 375
Ion Ratio Lower Upper
91 100
106 61.8 20.2 37.6#



#59
Bromoform
Concen: 1.044 ug/L
RT: 12.251 min Scan# 1700
Delta R.T. -0.097 min
Lab File: VW026917.D
Acq: 26 Aug 2023 01:03

Tgt Ion: 173 Resp: 40
Ion Ratio Lower Upper
173 100
175 102.5 36.6 55.0#
254 92.5 7.8 11.6#





#60

Isopropylbenzene

Concen: 0.616 ug/L

RT: 12.459 min Scan# 1734

Delta R.T. 0.000 min

Lab File: VW026917.D

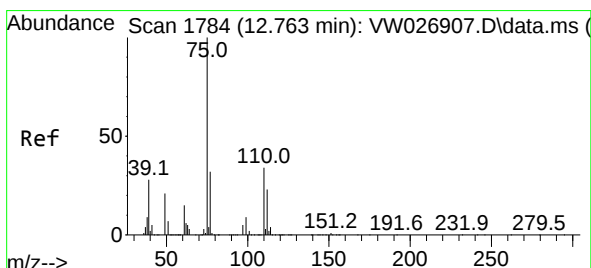
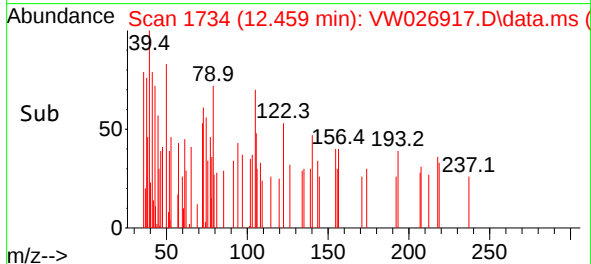
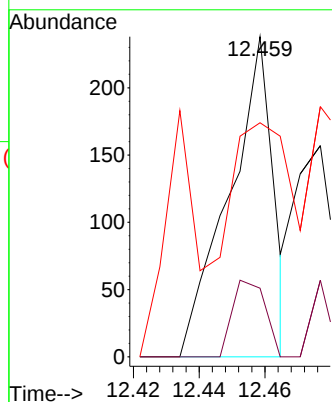
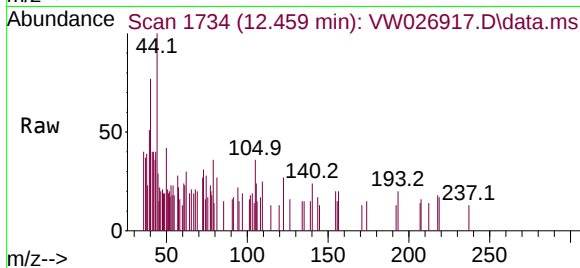
Acq: 26 Aug 2023 01:03

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	105	Resp:	224
Ion	Ratio	Lower	Upper
105	100		
120	17.4	21.0	31.6#
77	109.4	13.4	20.2#



#61

1,2,3-Trichloropropane

Concen: 3.457 ug/L

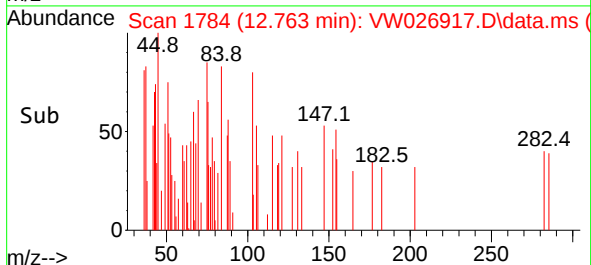
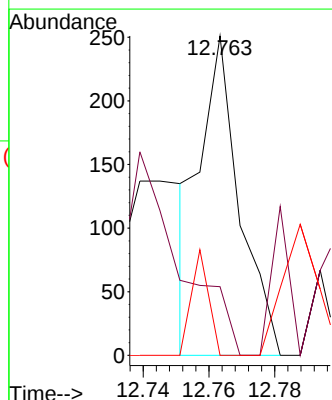
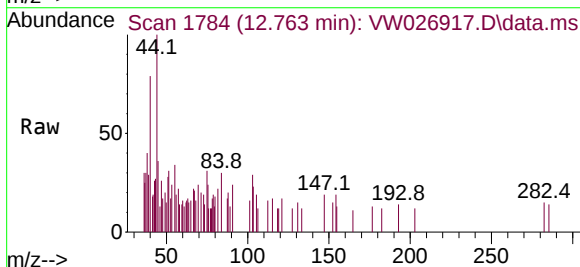
RT: 12.763 min Scan# 1784

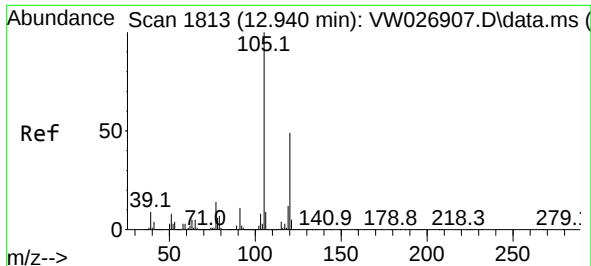
Delta R.T. 0.000 min

Lab File: VW026917.D

Acq: 26 Aug 2023 01:03

Tgt Ion:	75	Resp:	205
Ion	Ratio	Lower	Upper
75	100		
77	42.4	26.1	39.1#
110	37.1	29.9	44.9





#62

1,3,5-Trimethylbenzene

Concen: 0.891 ug/L

RT: 13.251 min Scan# 1864

Delta R.T. 0.311 min

Lab File: VW026917.D

Acq: 26 Aug 2023 01:03

Instrument :

MSVOA_W

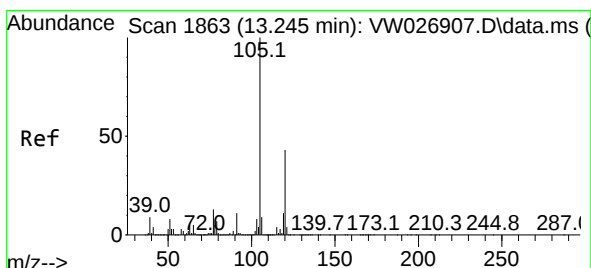
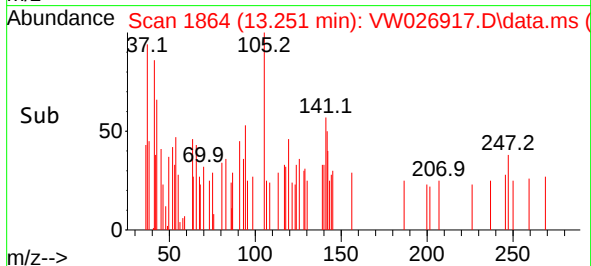
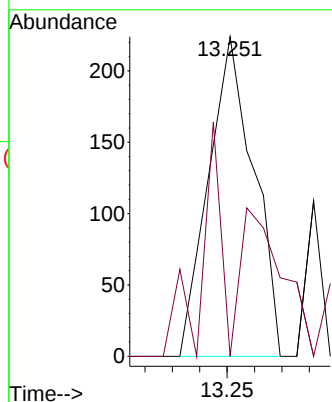
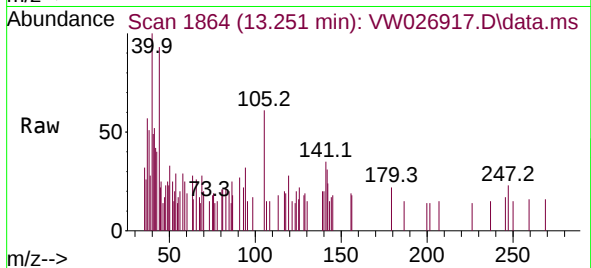
ClientSampleId :

Tgt Ion:105 Resp: 256

Ion Ratio Lower Upper

105 100

120 43.0 37.4 56.2



#63

1,2,4-Trimethylbenzene

Concen: 0.909 ug/L

RT: 13.251 min Scan# 1864

Delta R.T. 0.006 min

Lab File: VW026917.D

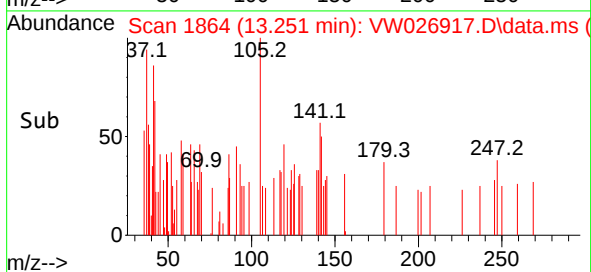
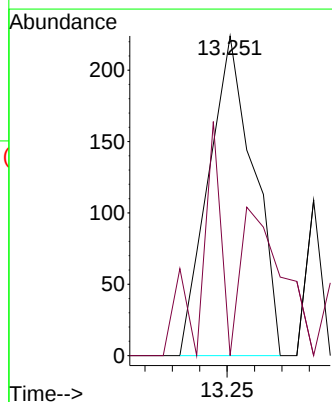
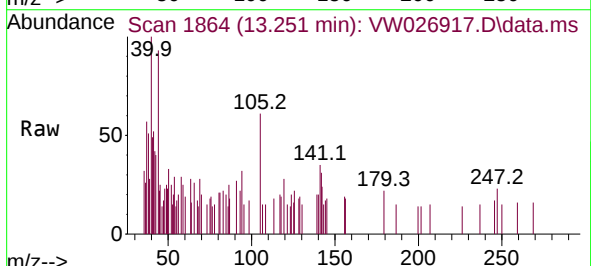
Acq: 26 Aug 2023 01:03

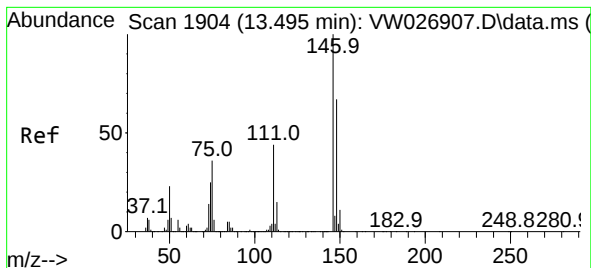
Tgt Ion:105 Resp: 256

Ion Ratio Lower Upper

105 100

120 43.0 36.2 54.4





#64

1,3-Dichlorobenzene

Concen: 2.246 ug/L

RT: 13.501 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VW026917.D

Acq: 26 Aug 2023 01:03

Instrument :

MSVOA_W

ClientSampleId :

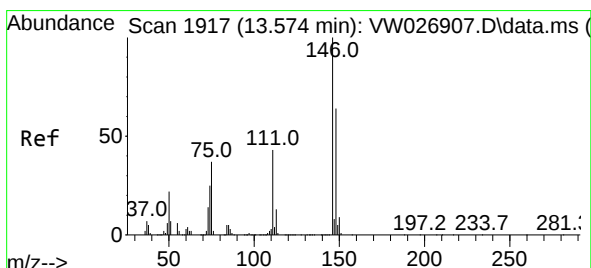
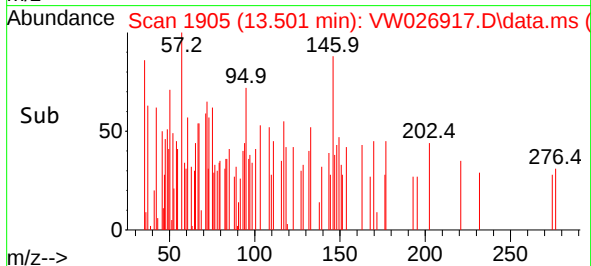
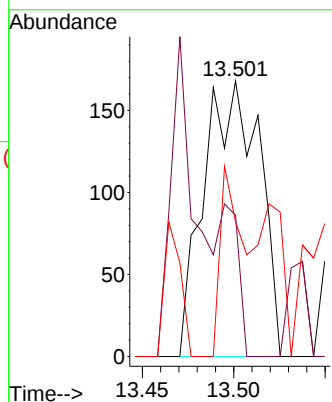
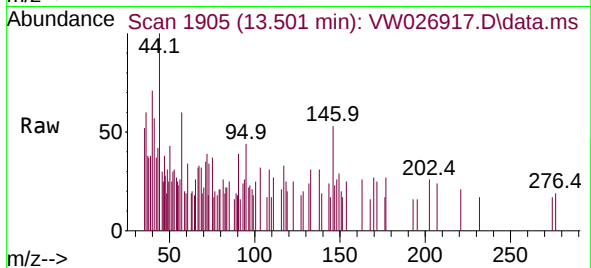
Tgt Ion:146 Resp: 355

Ion Ratio Lower Upper

146 100

111 51.2 29.1 54.1

148 48.8 38.8 72.0



#65

1,4-Dichlorobenzene

Concen: 1.273 ug/L

RT: 13.586 min Scan# 1919

Delta R.T. 0.012 min

Lab File: VW026917.D

Acq: 26 Aug 2023 01:03

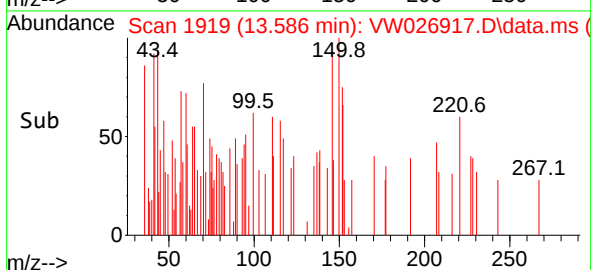
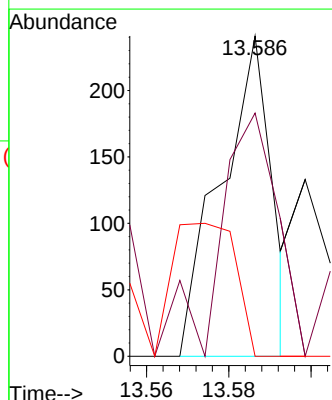
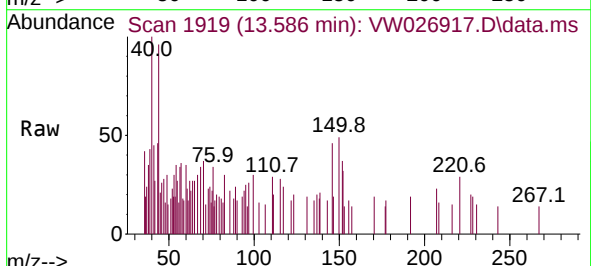
Tgt Ion:146 Resp: 210

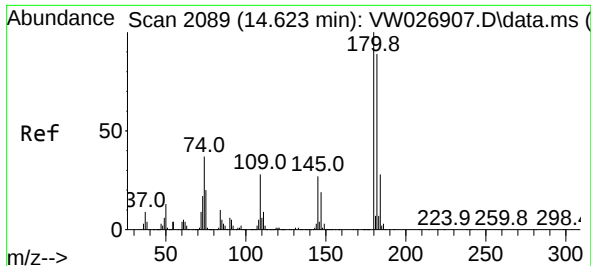
Ion Ratio Lower Upper

146 100

111 75.9 28.3 52.7#

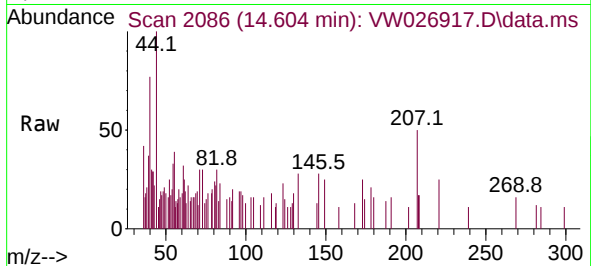
148 0.0 44.2 82.2#



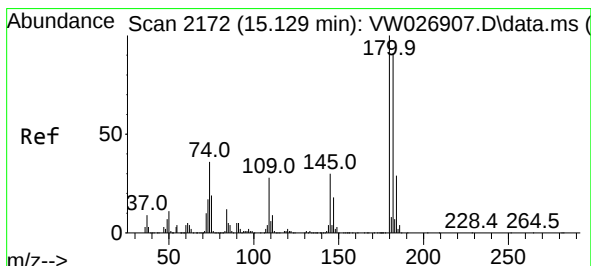
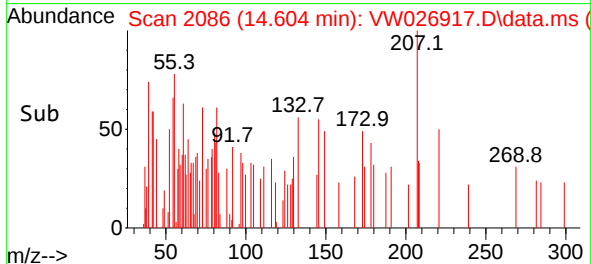
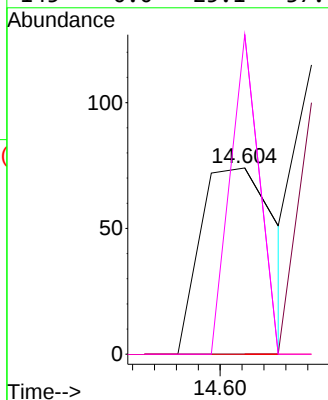


#69
1,3,5-Trichlorobenzene
Concen: 0.674 ug/L
RT: 14.604 min Scan# 2089
Delta R.T. -0.018 min
Lab File: VW026917.D
Acq: 26 Aug 2023 01:03

Instrument :
MSVOA_W
ClientSampleId :

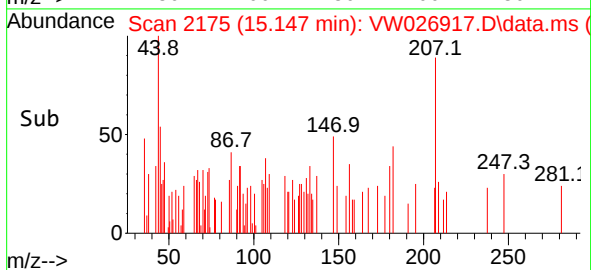
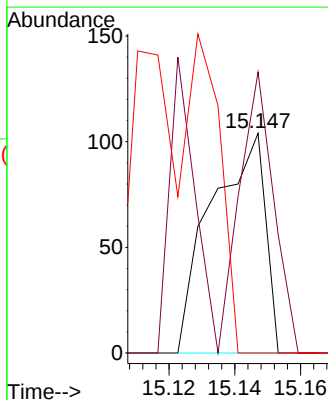
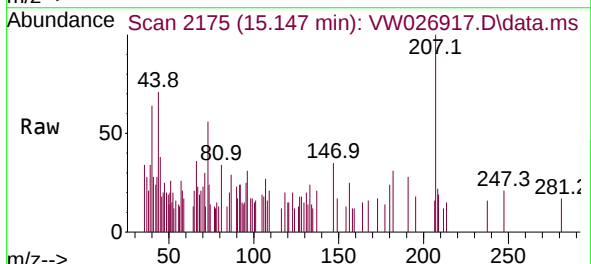


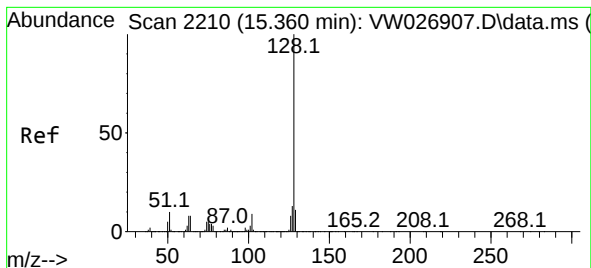
Tgt Ion:180 Resp: 72
Ion Ratio Lower Upper
180 100
182 169.4 75.2 112.8#
184 75.0 23.8 35.8#
145 0.0 25.1 37.7#



#70
1,2,4-trichlorobenzene
Concen: 1.303 ug/L
RT: 15.147 min Scan# 2175
Delta R.T. 0.018 min
Lab File: VW026917.D
Acq: 26 Aug 2023 01:03

Tgt Ion:180 Resp: 118
Ion Ratio Lower Upper
180 100
182 81.4 72.5 108.7
145 0.0 24.7 37.1#





#71

Naphthalene

Concen: 1.372 ug/L

RT: 15.360 min Scan# 21

Delta R.T. 0.000 min

Lab File: VW026917.D

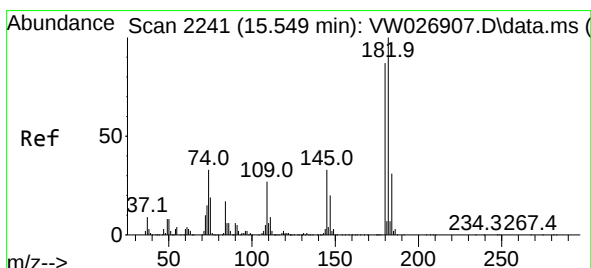
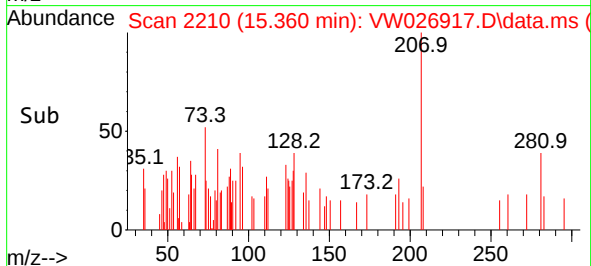
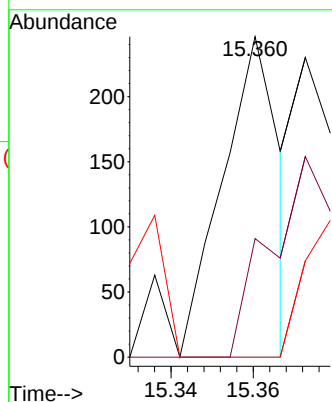
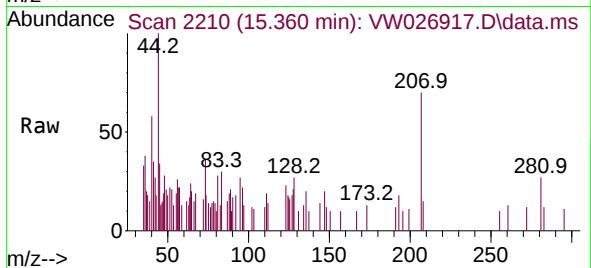
Acq: 26 Aug 2023 01:03

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:128	Resp:	237
Ion Ratio	Lower	Upper
128	100	
127	96.6	10.7 16.1#
129	51.9	9.0 13.4#



#72

1,2,3-Trichlorobenzene

Concen: 1.873 ug/L

RT: 15.556 min Scan# 2242

Delta R.T. 0.006 min

Lab File: VW026917.D

Acq: 26 Aug 2023 01:03

Tgt Ion:180	Resp:	153
Ion Ratio	Lower	Upper
180	100	
182	0.0	74.6 112.0#
145	44.4	27.0 40.6#

