

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW010924\
 Data File : VW027837.D
 Acq On : 09 Jan 2024 10:10
 Operator : SY/MD
 Sample : P1017-01
 Misc : 5.00g/10mL/MSVOA_W/SOIL/Vial A
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 DCML7

Quant Time: Jan 10 00:42:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM010824SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Jan 10 00:40:17 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	365637	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	325690	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.550	152	155644	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	95909	21.491	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.960%
7) Chloroethane-d5	2.905	69	82001	20.959	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.840%
11) 1,1-Dichloroethene-d2	4.027	65	44065	21.951	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	87.800%
21) 2-Butanone-d5	7.087	46	37167	50.365	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	100.740%
24) Chloroform-d	7.654	84	195705	22.135	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	88.520%
26) 1,2-Dichloroethane-d4	8.307	65	91767	22.909	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	91.640%
32) Benzene-d6	8.276	84	425612	23.025	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	92.080%
36) 1,2-Dichloropropane-d6	9.276	67	117774	23.030	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	92.120%
41) Toluene-d8	10.319	98	403577	23.354	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	93.400%
43) trans-1,3-Dichloroprop...	10.575	79	48967	24.633	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	98.520%
47) 2-Hexanone-d5	10.922	63	35125	52.326	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	104.660%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	89960	24.693	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	98.760%
66) 1,2-Dichlorobenzene-d4	13.848	152	130808	23.908	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.640%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.045	96	431124	99.128	ug/L	# 82
13) Acetone	4.155	43	138470	146.818	ug/L	98
16) Methylene chloride	4.923	84	204813	38.636	ug/L	94
17) trans-1,2-Dichloroethene	5.429	96	118744	25.554	ug/L	96
18) Methyl tert-butyl Ether	5.435	73	117146	20.634	ug/L	100
20) cis-1,2-Dichloroethene	7.173	96	151957	30.066	ug/L	98
22) 2-Butanone	7.185	43	107649	117.669	ug/L	99
27) 1,2-Dichloroethane	8.404	62	161432	35.045	ug/L	96
31) Carbon tetrachloride	8.069	117	440973	77.821	ug/L	98
33) Benzene	8.325	78	938079	52.181	ug/L	100
34) Trichloroethene	9.093	95	464420	94.512	ug/L	99
37) 1,2-Dichloropropane	9.367	63	209277	48.322	ug/L	99
38) Bromodichloromethane	9.642	83	299017	55.217	ug/L	98
39) cis-1,3-Dichloropropene	10.075	75	372590	55.830	ug/L	97
40) 4-Methyl-2-pentanone	10.209	43	329422	194.999	ug/L	99
44) trans-1,3-Dichloropropene	10.605	75	197006	38.243	ug/L	100
45) 1,1,2-Trichloroethane	10.782	97	143348	44.180	ug/L	99
46) Tetrachloroethene	10.861	164	207997	51.912	ug/L	88
48) 2-Hexanone	10.965	43	131253	107.302	ug/L	98

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Quant Title : SFAM01.0
QLast Update : Wed Jan 10 00:40:17 2024
Response via : Initial Calibration

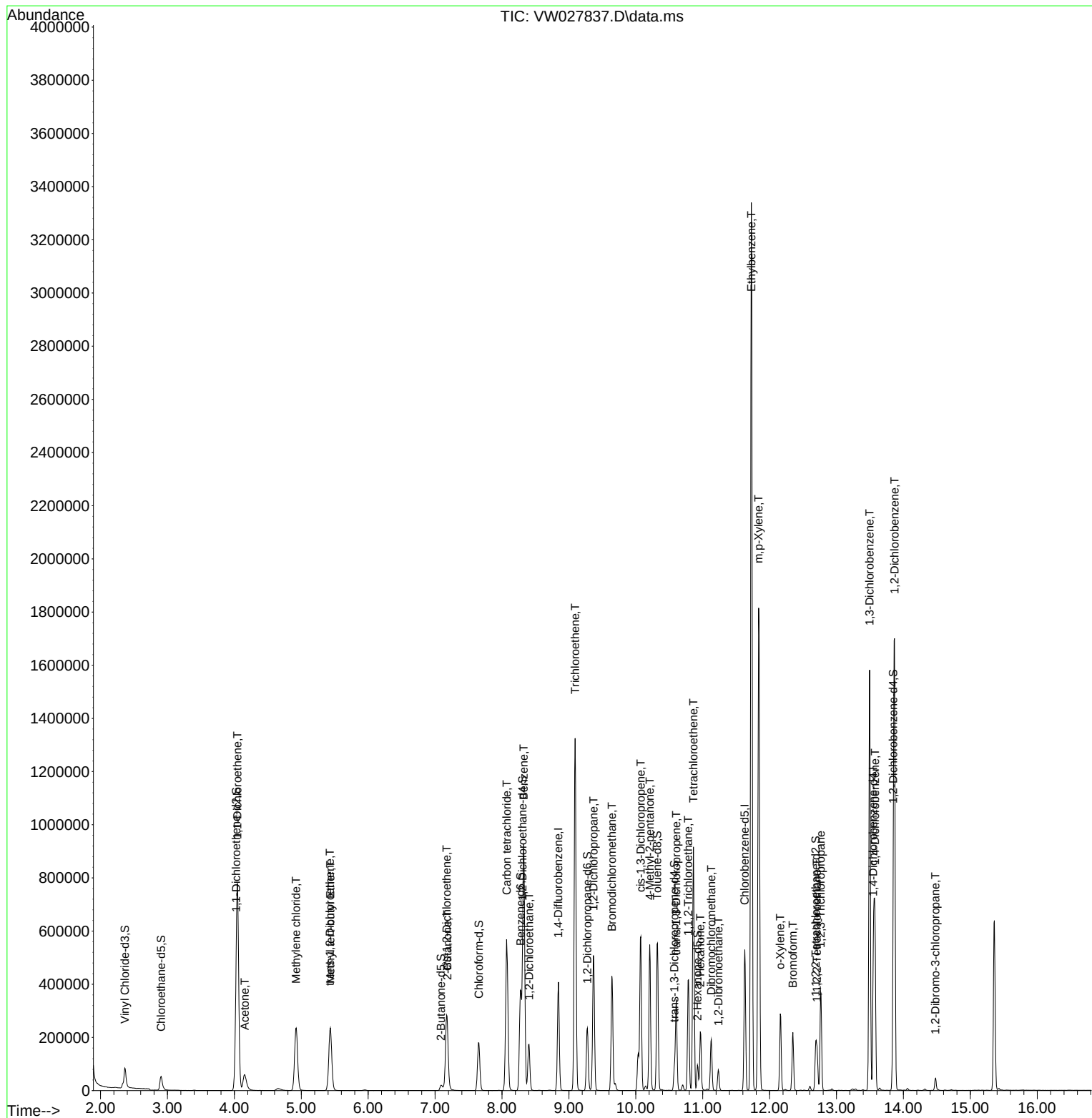
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	11.129	129	106117	29.931	ug/L	90
50) 1,2-Dibromoethane	11.233	107	54877	18.350	ug/L	91
52) Ethylbenzene	11.727	91	1829692	82.965	ug/L	100
53) m,p-Xylene	11.837	106	606195	70.622	ug/L	96
54) o-Xylene	12.160	106	79260	9.857	ug/L	99
57) 1,1,2,2-Tetrachloroethane	12.708	83	67007	19.155	ug/L	98
59) Bromoform	12.349	173	99983	52.316	ug/L #	93
61) 1,2,3-Trichloropropane	12.763	75	164839	69.943	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	667732	68.781	ug/L	97
65) 1,4-Dichlorobenzene	13.574	146	254634	26.834	ug/L	90
67) 1,2-Dichlorobenzene	13.867	146	667027	80.613	ug/L	90
68) 1,2-Dibromo-3-chloropr...	14.476	75	12256	26.647	ug/L	96

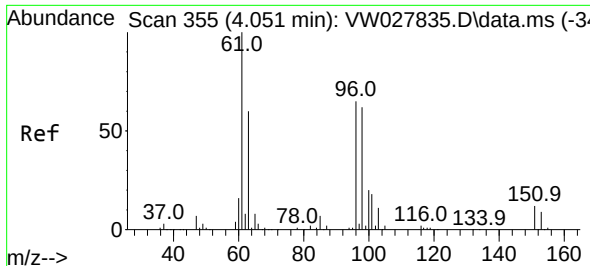
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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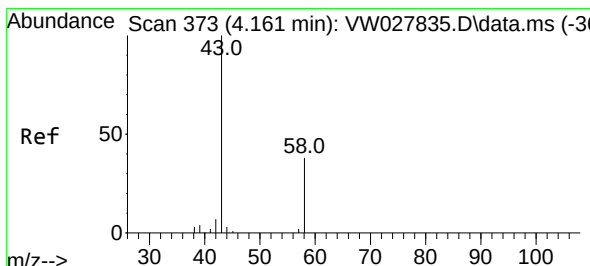
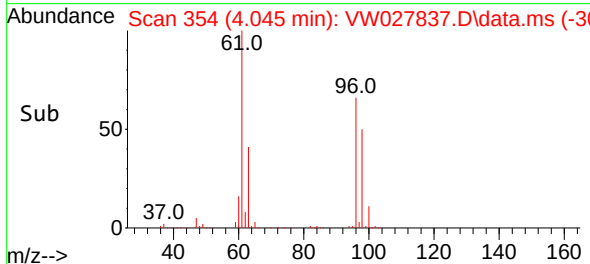
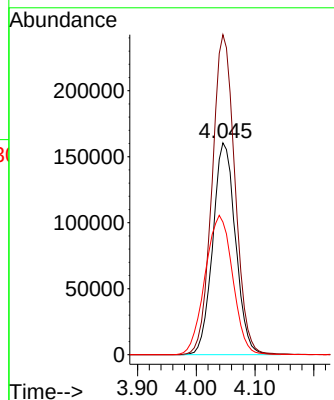
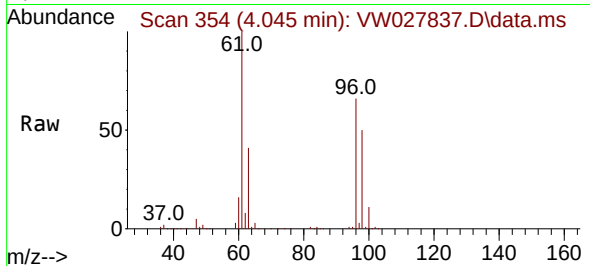




#12
1,1-Dichloroethene
Concen: 99.128 ug/L
RT: 4.045 min Scan# 31
Delta R.T. -0.006 min
Lab File: VW027837.D
Acq: 09 Jan 2024 10:10

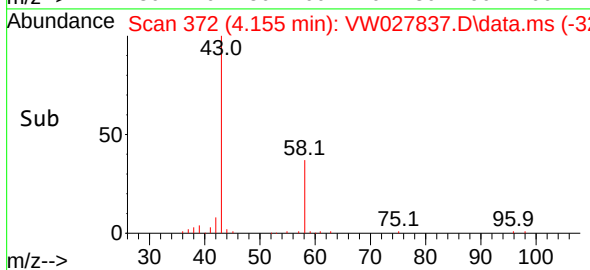
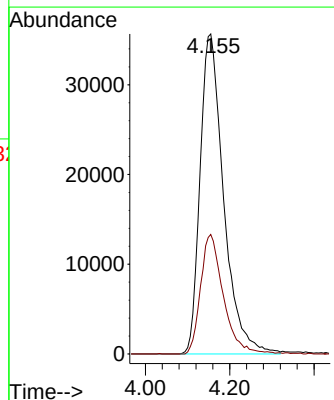
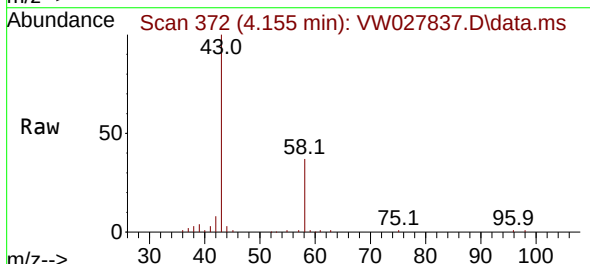
Instrument :
MSVOA_W
ClientSampleId :
DCML7

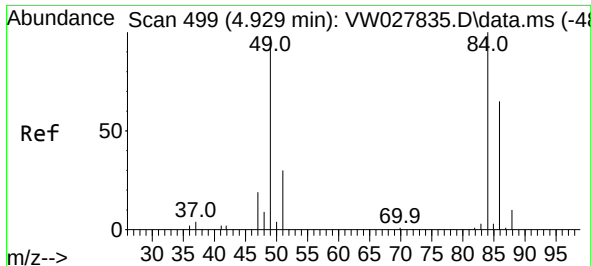
Tgt Ion: 96 Resp: 431124
Ion Ratio Lower Upper
96 100
61 151.0 105.7 196.3
63 62.6 76.0 141.2#



#13
Acetone
Concen: 146.818 ug/L
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW027837.D
Acq: 09 Jan 2024 10:10

Tgt Ion: 43 Resp: 138470
Ion Ratio Lower Upper
43 100
58 36.0 0.0 70.2

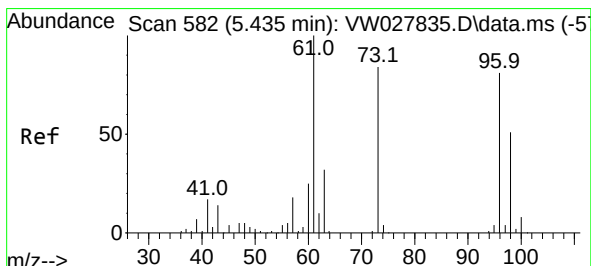
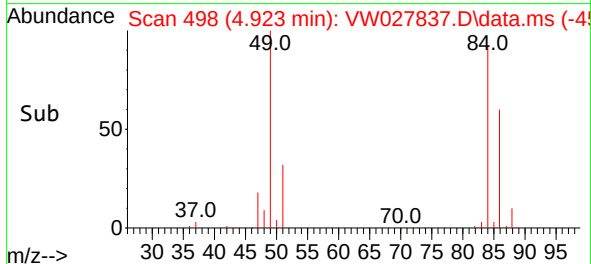
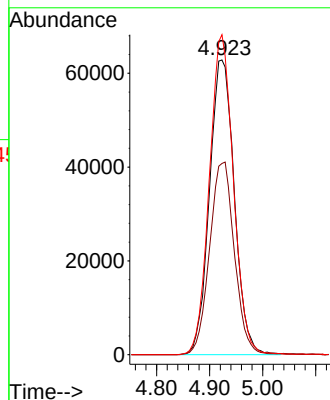
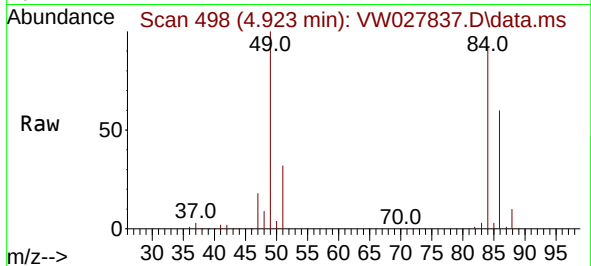




#16
Methylene chloride
Concen: 38.636 ug/L
RT: 4.923 min Scan# 49
Delta R.T. -0.006 min
Lab File: VW027837.D
Acq: 09 Jan 2024 10:10

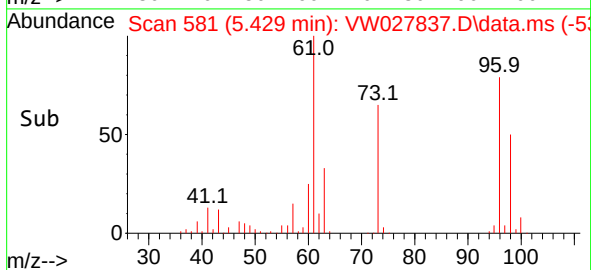
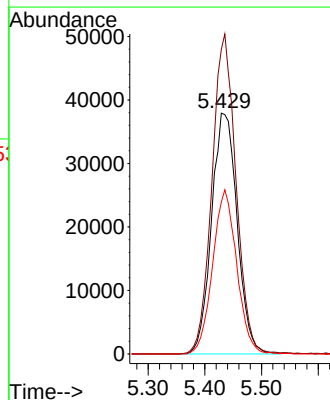
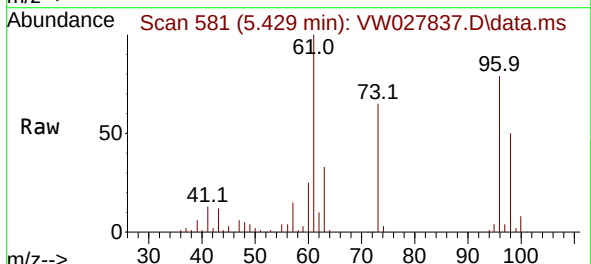
Instrument :
MSVOA_W
ClientSampleId :
DCML7

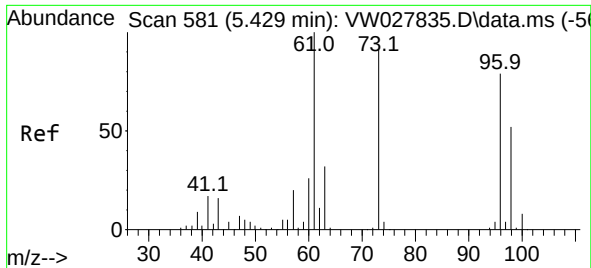
Tgt Ion: 84 Resp: 204813
Ion Ratio Lower Upper
84 100
86 64.9 43.5 80.9
49 108.6 70.3 130.5



#17
trans-1,2-Dichloroethene
Concen: 25.554 ug/L
RT: 5.429 min Scan# 581
Delta R.T. -0.006 min
Lab File: VW027837.D
Acq: 09 Jan 2024 10:10

Tgt Ion: 96 Resp: 118744
Ion Ratio Lower Upper
96 100
61 126.4 85.0 157.8
98 63.1 46.3 86.1

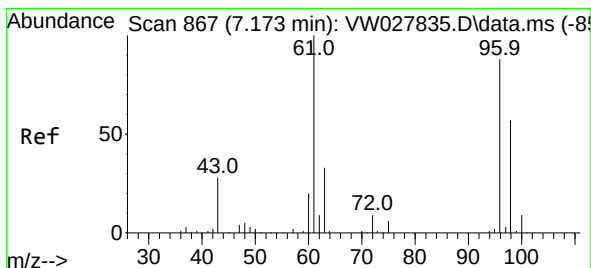
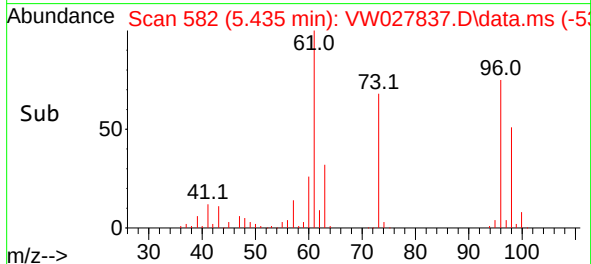
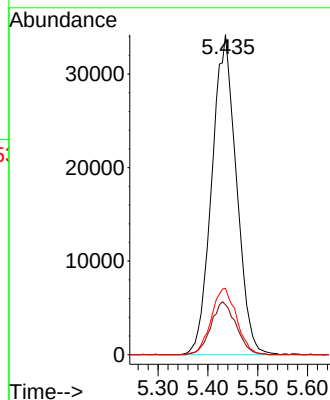
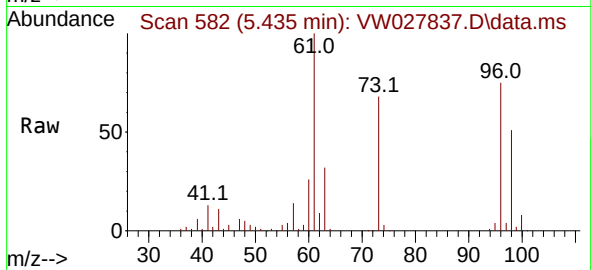




#18
Methyl tert-butyl Ether
Concen: 20.634 ug/L
RT: 5.435 min Scan# 581
Delta R.T. 0.006 min
Lab File: VW027837.D
Acq: 09 Jan 2024 10:10

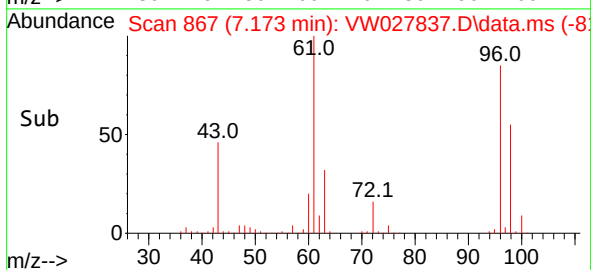
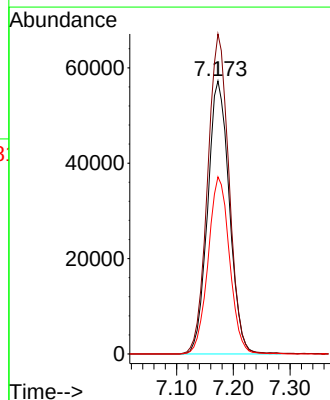
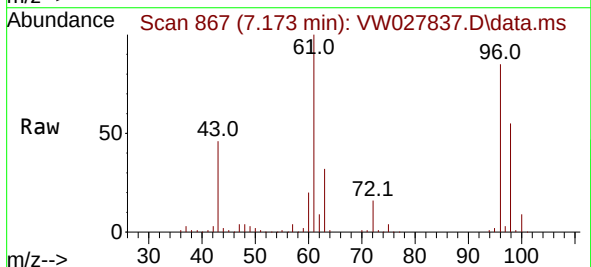
Instrument :
MSVOA_W
ClientSampleId :
DCML7

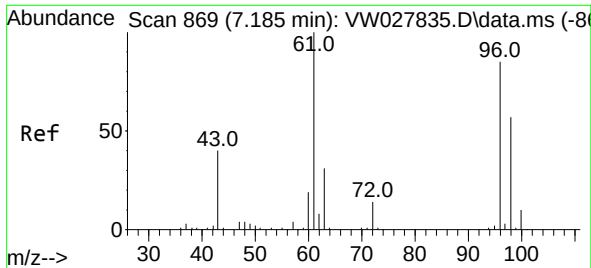
Tgt Ion: 73 Resp: 117146
Ion Ratio Lower Upper
73 100
43 16.9 13.5 20.3
57 21.4 16.9 25.3



#20
cis-1,2-Dichloroethene
Concen: 30.066 ug/L
RT: 7.173 min Scan# 867
Delta R.T. 0.000 min
Lab File: VW027837.D
Acq: 09 Jan 2024 10:10

Tgt Ion: 96 Resp: 151957
Ion Ratio Lower Upper
96 100
61 117.2 81.1 150.7
98 64.9 46.5 86.5





#22

2-Butanone

Concen: 117.669 ug/L

RT: 7.185 min Scan# 869

Delta R.T. 0.000 min

Lab File: VW027837.D

Acq: 09 Jan 2024 10:10

Instrument :

MSVOA_W

ClientSampleId :

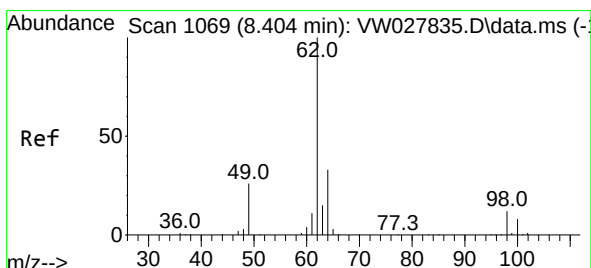
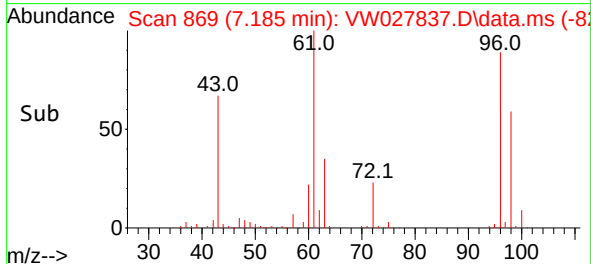
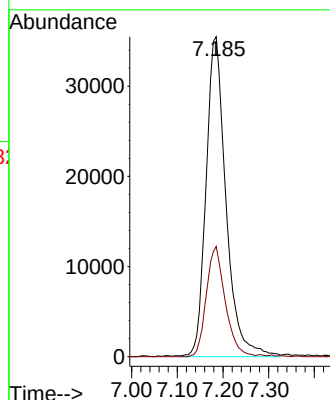
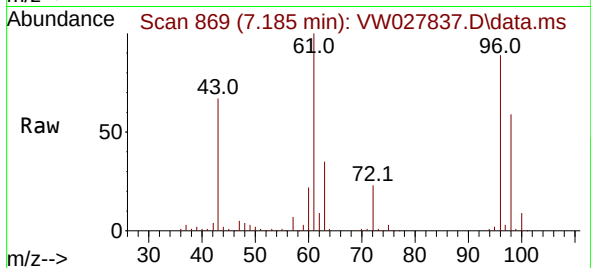
DCML7

Tgt Ion: 43 Resp: 107649

Ion Ratio Lower Upper

43 100

72 32.6 16.7 50.1



#27

1,2-Dichloroethane

Concen: 35.045 ug/L

RT: 8.404 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VW027837.D

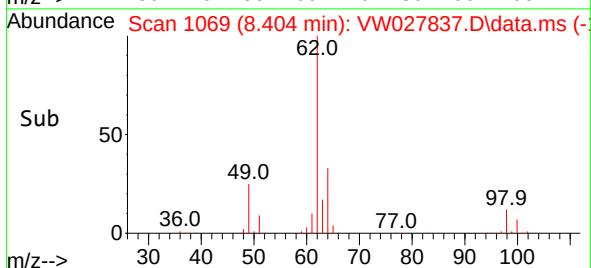
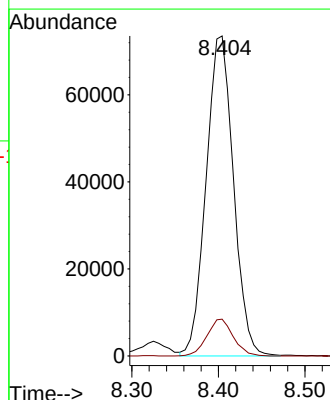
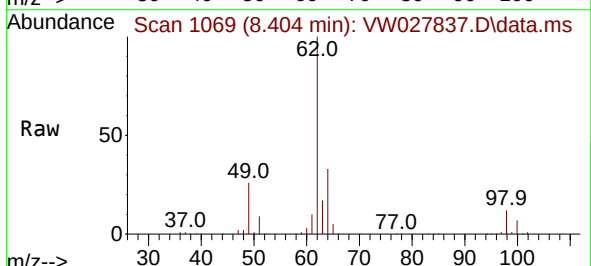
Acq: 09 Jan 2024 10:10

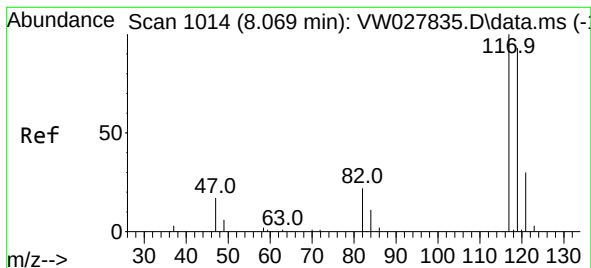
Tgt Ion: 62 Resp: 161432

Ion Ratio Lower Upper

62 100

98 11.5 8.1 12.1





#31

Carbon tetrachloride

Concen: 77.821 ug/L

RT: 8.069 min Scan# 1014

Delta R.T. 0.000 min

Lab File: VW027837.D

Acq: 09 Jan 2024 10:10

Instrument :

MSVOA_W

ClientSampleId :

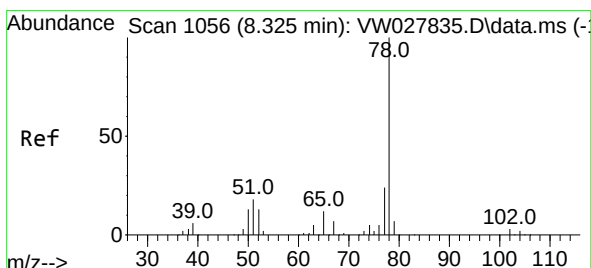
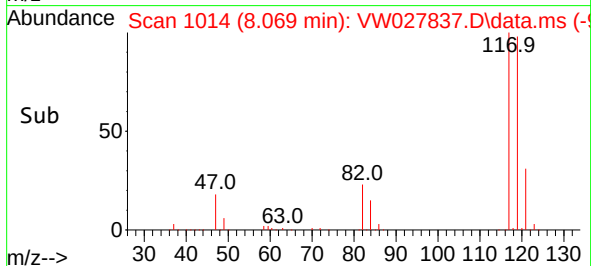
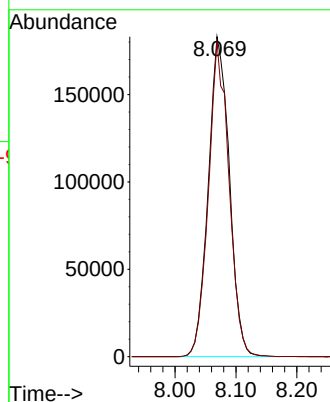
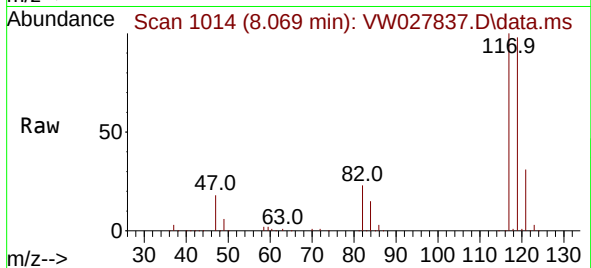
DCML7

Tgt Ion:117 Resp: 440973

Ion Ratio Lower Upper

117 100

119 95.5 74.8 112.2



#33

Benzene

Concen: 52.181 ug/L

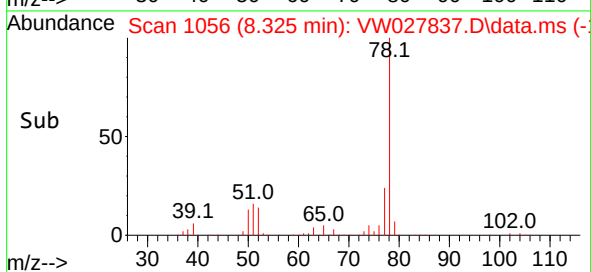
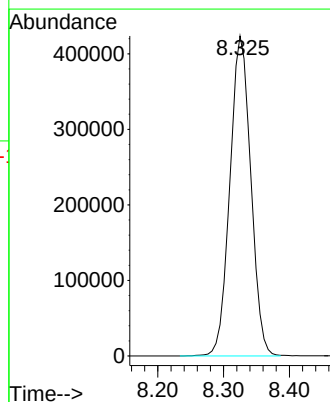
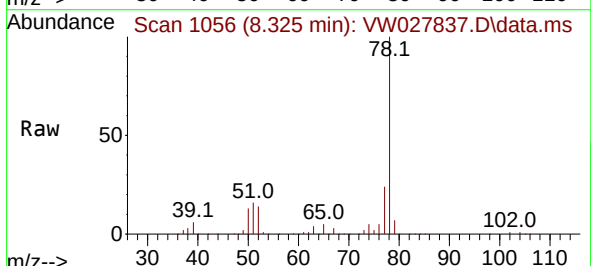
RT: 8.325 min Scan# 1056

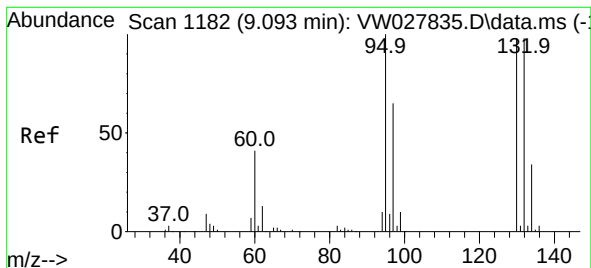
Delta R.T. 0.000 min

Lab File: VW027837.D

Acq: 09 Jan 2024 10:10

Tgt Ion: 78 Resp: 938079





#34

Trichloroethene

Concen: 94.512 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. 0.000 min

Lab File: VW027837.D

Acq: 09 Jan 2024 10:10

Instrument :

MSVOA_W

ClientSampleId :

DCML7

Tgt Ion: 95 Resp: 464420

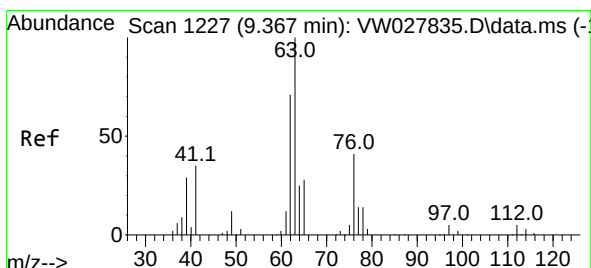
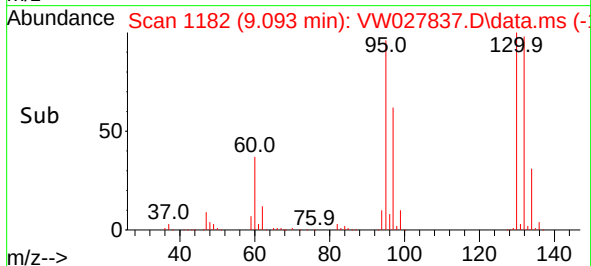
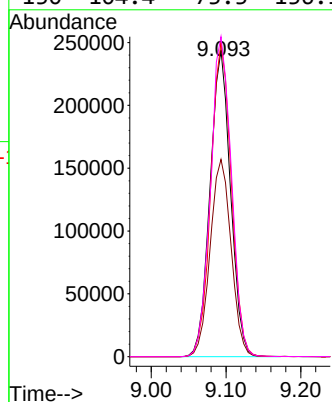
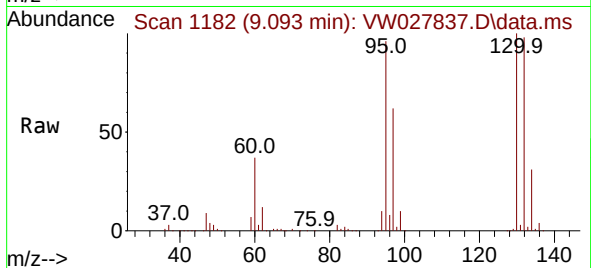
Ion Ratio Lower Upper

95 100

97 64.4 45.1 83.9

132 102.5 74.1 137.5

130 104.4 73.3 136.1



#37

1,2-Dichloropropane

Concen: 48.322 ug/L

RT: 9.367 min Scan# 1227

Delta R.T. 0.000 min

Lab File: VW027837.D

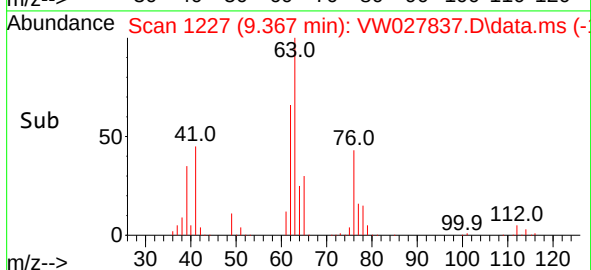
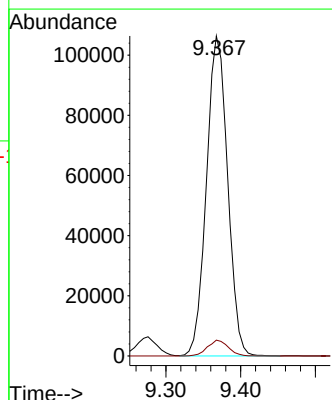
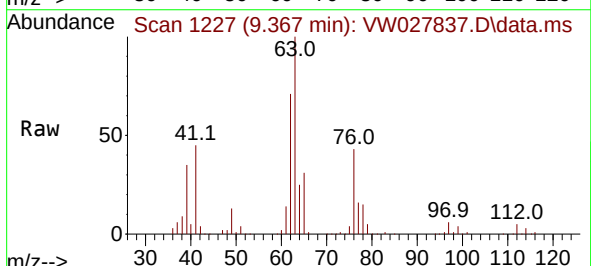
Acq: 09 Jan 2024 10:10

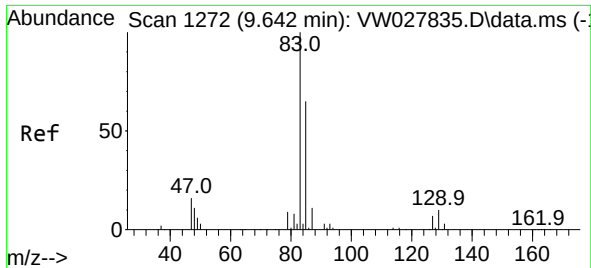
Tgt Ion: 63 Resp: 209277

Ion Ratio Lower Upper

63 100

112 4.8 4.2 6.2

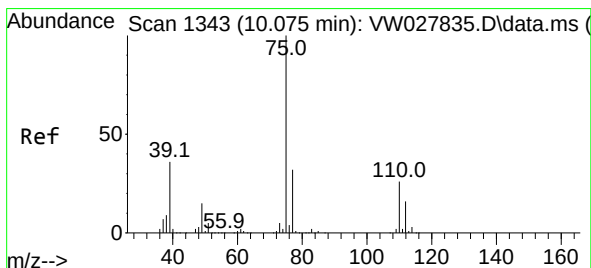
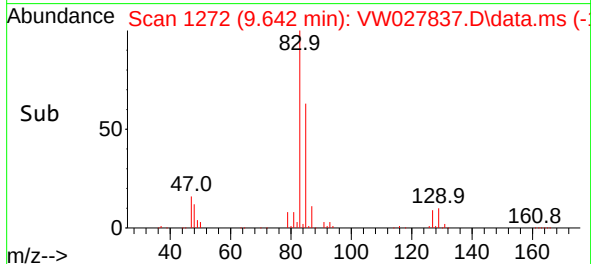
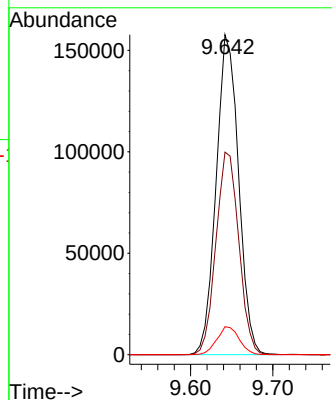
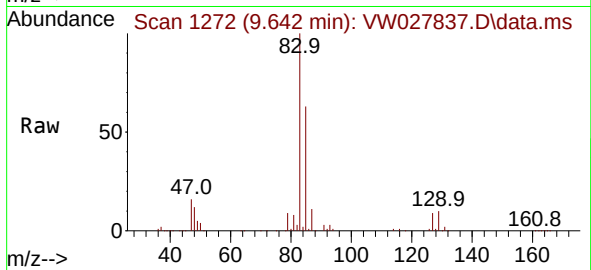




#38
Bromodichloromethane
Concen: 55.217 ug/L
RT: 9.642 min Scan# 1272
Delta R.T. 0.000 min
Lab File: VW027837.D
Acq: 09 Jan 2024 10:10

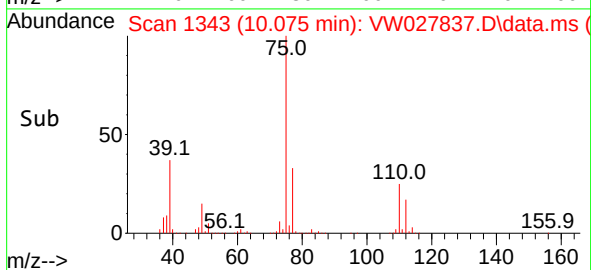
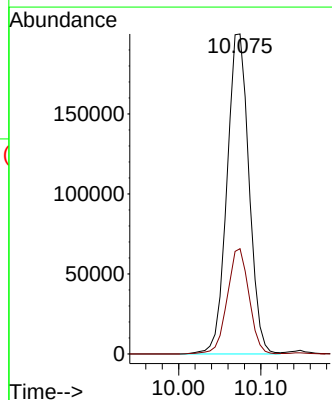
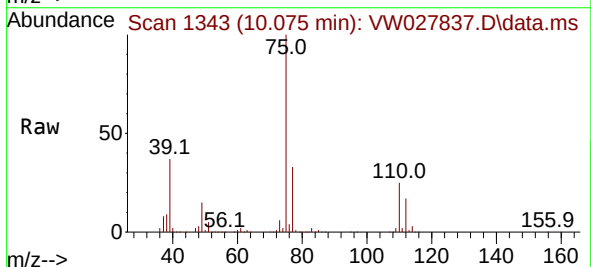
Instrument :
MSVOA_W
ClientSampleId :
DCML7

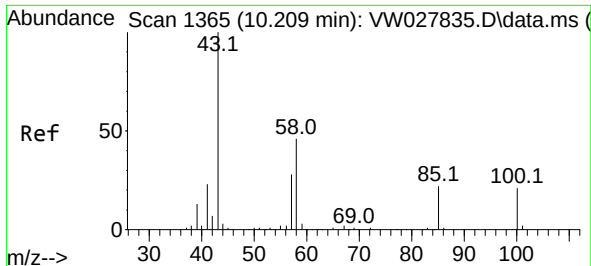
Tgt Ion: 83 Resp: 299017
Ion Ratio Lower Upper
83 100
85 63.3 43.0 79.8
127 8.8 6.3 9.5



#39
cis-1,3-Dichloropropene
Concen: 55.830 ug/L
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW027837.D
Acq: 09 Jan 2024 10:10

Tgt Ion: 75 Resp: 372590
Ion Ratio Lower Upper
75 100
77 32.9 21.7 40.3

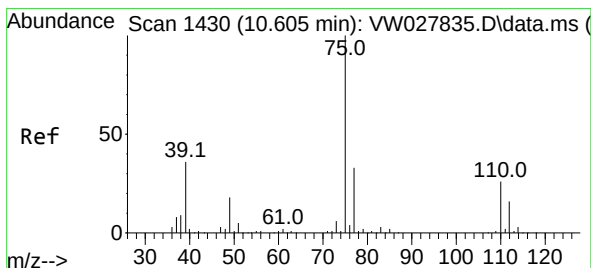
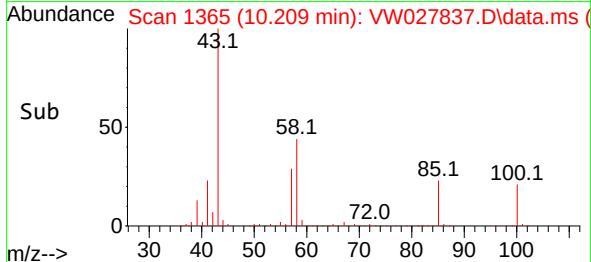
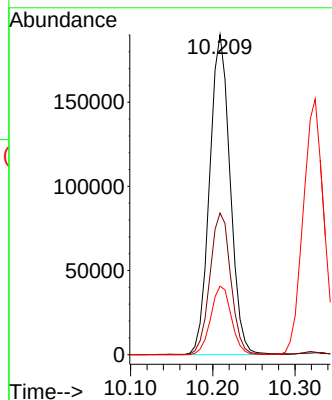
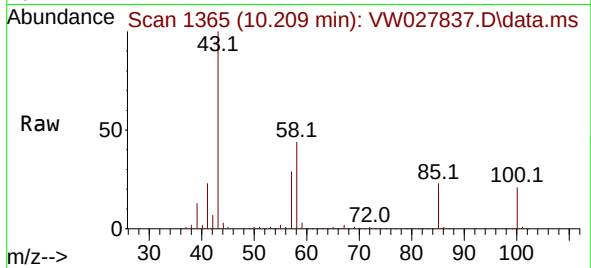




#40
4-Methyl-2-pentanone
Concen: 194.999 ug/L
RT: 10.209 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW027837.D
Acq: 09 Jan 2024 10:10

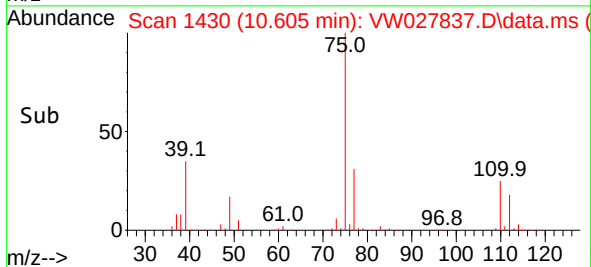
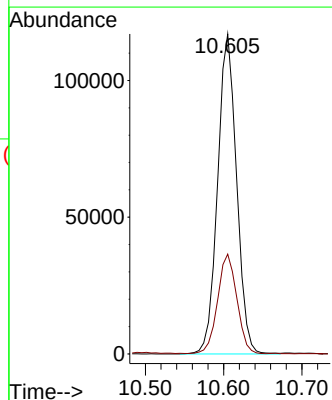
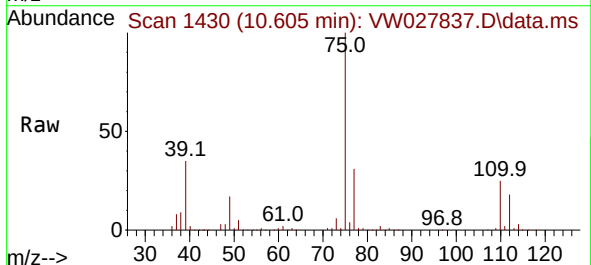
Instrument :
MSVOA_W
ClientSampleId :
DCML7

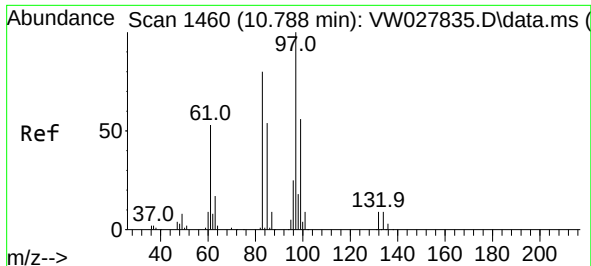
Tgt Ion: 43 Resp: 329422
Ion Ratio Lower Upper
43 100
58 45.1 36.9 55.3
100 21.6 16.7 25.1



#44
trans-1,3-Dichloropropene
Concen: 38.243 ug/L
RT: 10.605 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VW027837.D
Acq: 09 Jan 2024 10:10

Tgt Ion: 75 Resp: 197006
Ion Ratio Lower Upper
75 100
77 31.2 21.8 40.4

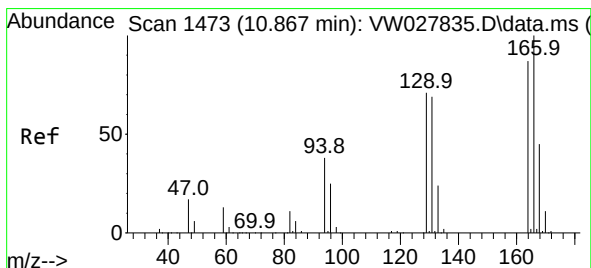
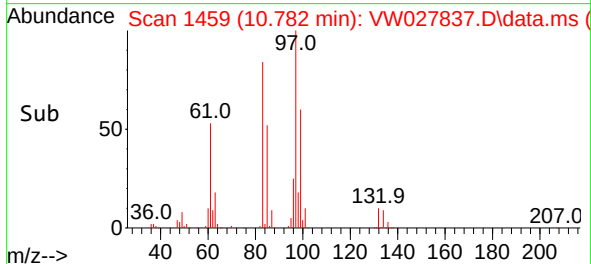
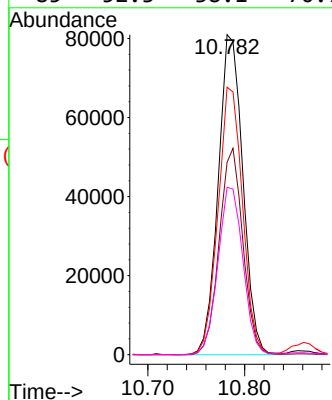
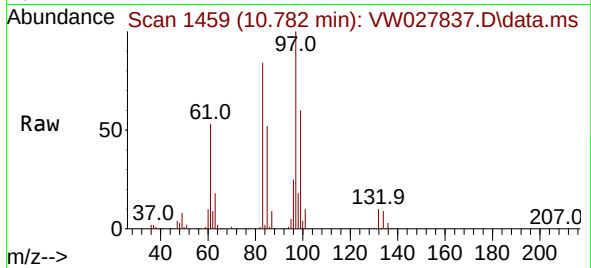




#45
1,1,2-Trichloroethane
Concen: 44.180 ug/L
RT: 10.782 min Scan# 1459
Delta R.T. -0.006 min
Lab File: VW027837.D
Acq: 09 Jan 2024 10:10

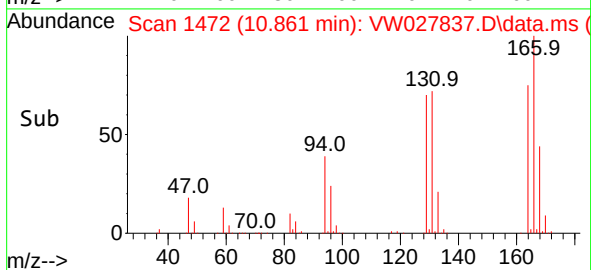
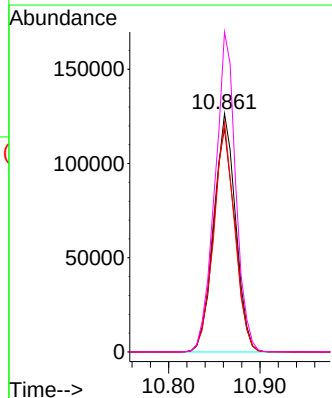
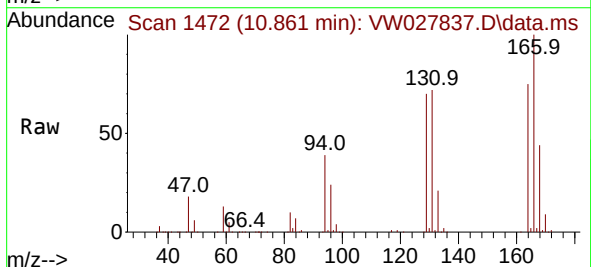
Instrument :
MSVOA_W
ClientSampleId :
DCML7

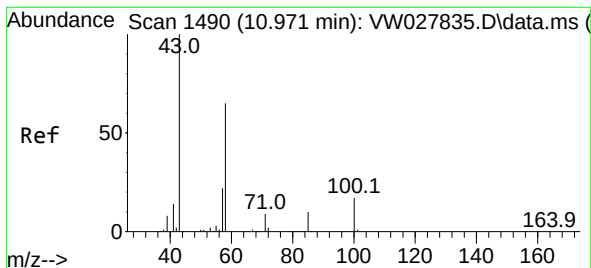
Tgt Ion: 97	Resp: 143348
Ion Ratio	Lower Upper
97 100	
99 60.1	42.1 78.3
83 83.6	58.4 108.4
85 52.3	38.1 70.7



#46
Tetrachloroethene
Concen: 51.912 ug/L
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW027837.D
Acq: 09 Jan 2024 10:10

Tgt	Ion:164	Resp:	207997
Ion	Ratio	Lower	Upper
164	100		
129	93.4	62.7	116.5
131	96.4	57.3	106.5
166	134.2	82.0	152.4





#48

2-Hexanone

Concen: 107.302 ug/L

RT: 10.965 min Scan# 1489

Delta R.T. -0.006 min

Lab File: VW027837.D

Acq: 09 Jan 2024 10:10

Instrument :

MSVOA_W

ClientSampleId :

DCML7

Tgt Ion: 43 Resp: 131253

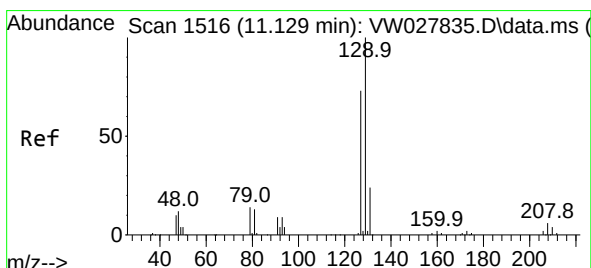
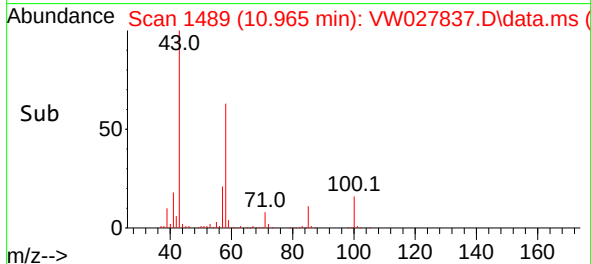
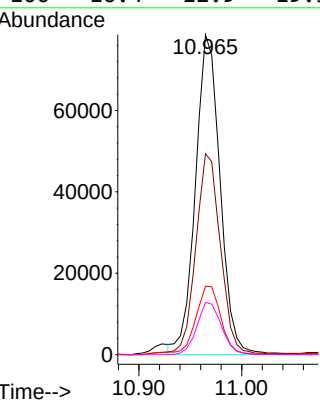
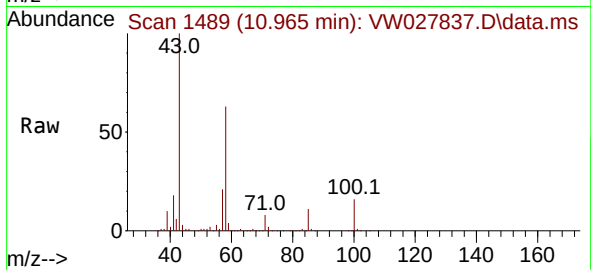
Ion Ratio Lower Upper

43 100

58 63.2 49.3 73.9

57 21.4 17.0 25.4

100 16.4 12.9 19.3



#49

Dibromochloromethane

Concen: 29.931 ug/L

RT: 11.129 min Scan# 1516

Delta R.T. 0.000 min

Lab File: VW027837.D

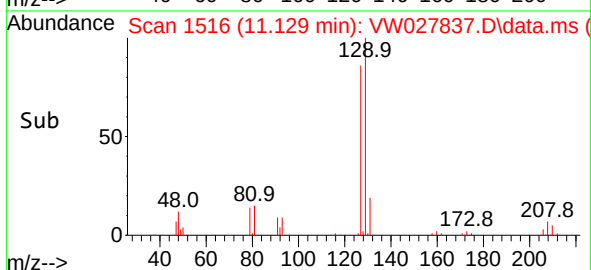
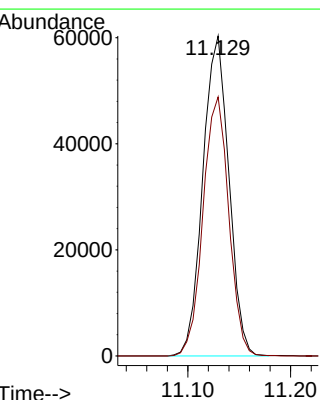
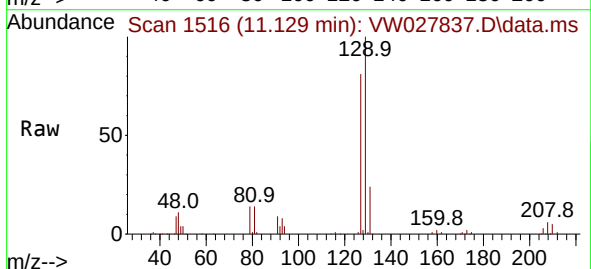
Acq: 09 Jan 2024 10:10

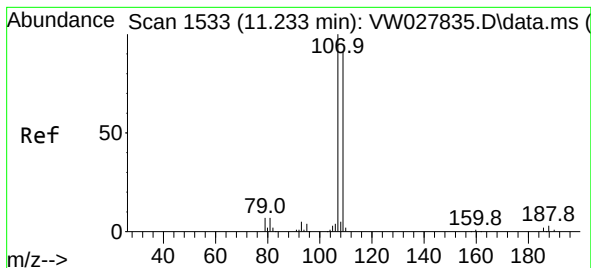
Tgt Ion:129 Resp: 106117

Ion Ratio Lower Upper

129 100

127 80.9 51.0 94.6

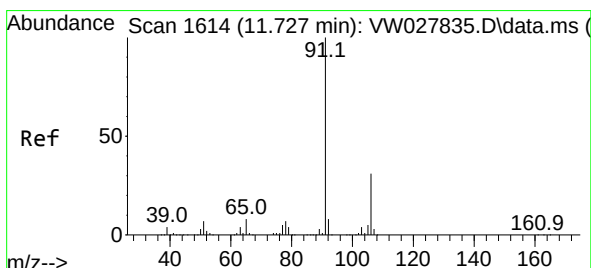
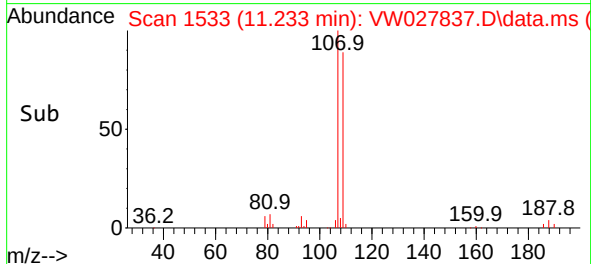
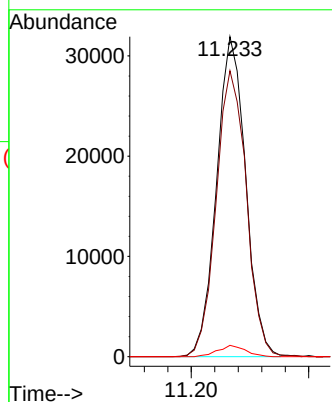
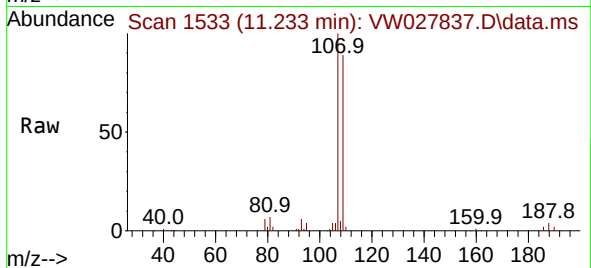




#50
1,2-Dibromoethane
Concen: 18.350 ug/L
RT: 11.233 min Scan# 1533
Delta R.T. 0.000 min
Lab File: VW027837.D
Acq: 09 Jan 2024 10:10

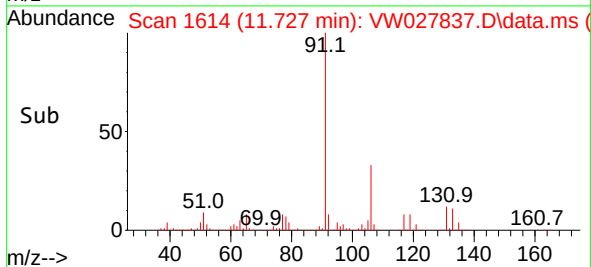
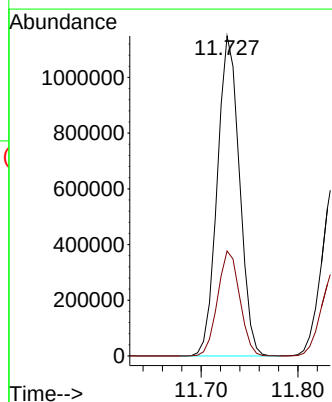
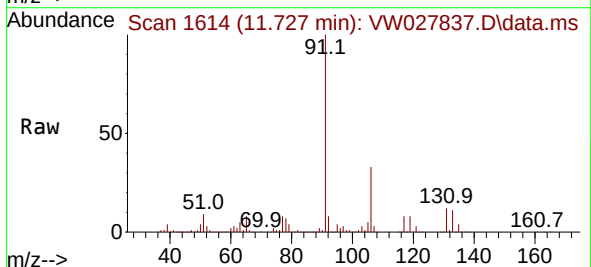
Instrument :
MSVOA_W
ClientSampleId :
DCML7

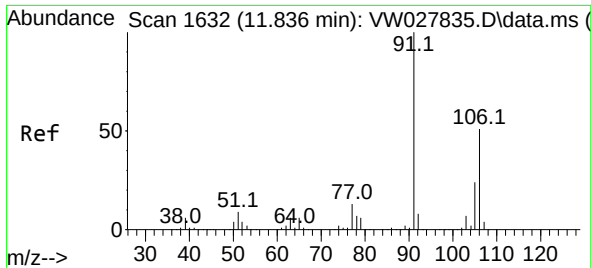
Tgt Ion:107 Resp: 54877
Ion Ratio Lower Upper
107 100
109 89.3 69.3 128.7
188 3.6 3.0 4.4



#52
Ethylbenzene
Concen: 82.965 ug/L
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW027837.D
Acq: 09 Jan 2024 10:10

Tgt Ion: 91 Resp: 1829692
Ion Ratio Lower Upper
91 100
106 32.8 23.0 42.6

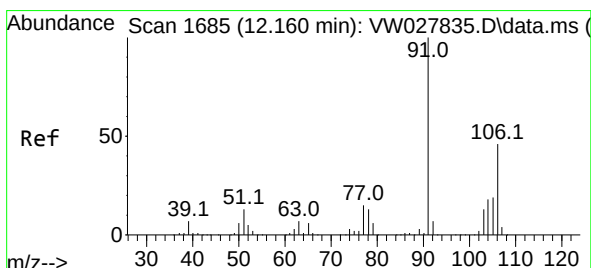
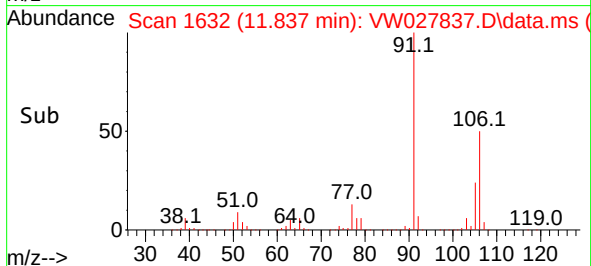
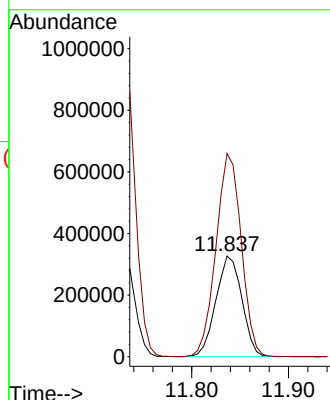
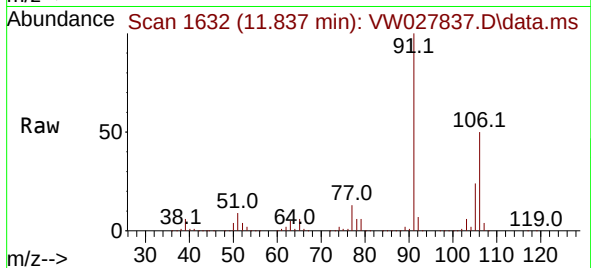




#53
m,p-Xylene
Concen: 70.622 ug/L
RT: 11.837 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW027837.D
Acq: 09 Jan 2024 10:10

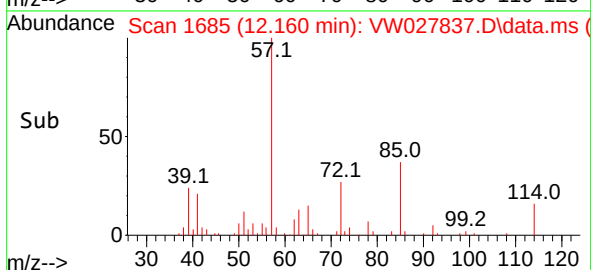
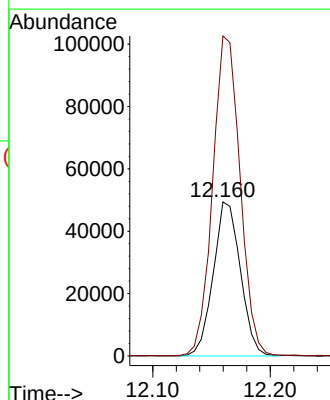
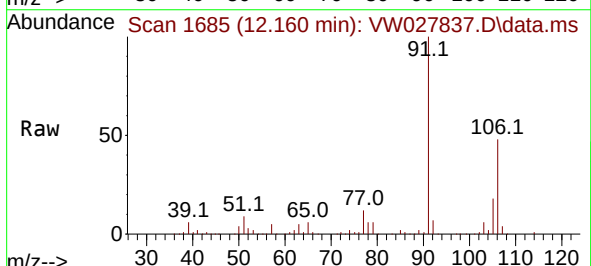
Instrument :
MSVOA_W
ClientSampleId :
DCML7

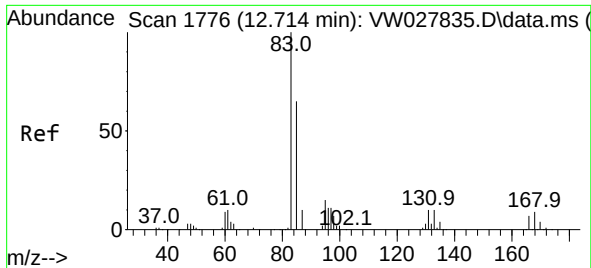
Tgt Ion:106 Resp: 606195
Ion Ratio Lower Upper
106 100
91 201.6 137.0 254.4



#54
o-Xylene
Concen: 9.857 ug/L
RT: 12.160 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VW027837.D
Acq: 09 Jan 2024 10:10

Tgt Ion:106 Resp: 79260
Ion Ratio Lower Upper
106 100
91 207.6 146.4 271.8





#57

1,1,2-Tetrachloroethane

Concen: 19.155 ug/L

RT: 12.708 min Scan# 1

Delta R.T. -0.006 min

Lab File: VW027837.D

Acq: 09 Jan 2024 10:10

Instrument :

MSVOA_W

ClientSampleId :

DCML7

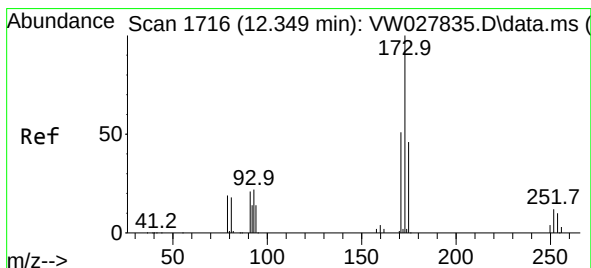
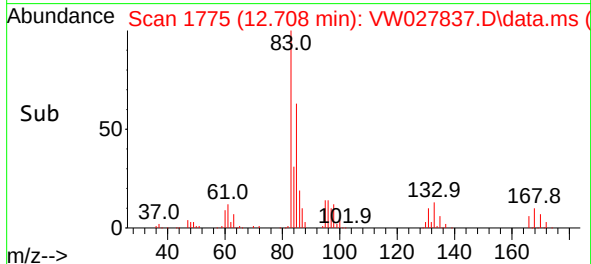
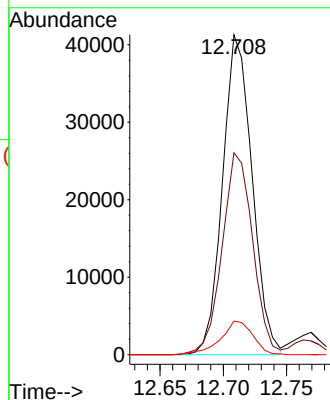
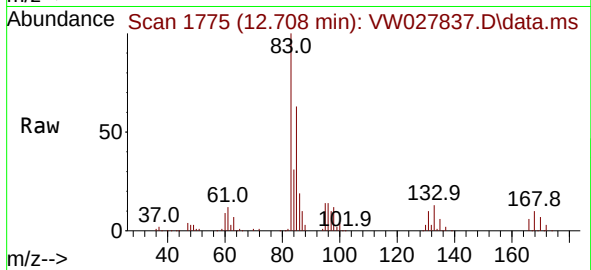
Tgt Ion: 83 Resp: 67007

Ion Ratio Lower Upper

83 100

85 63.1 43.2 80.2

131 10.5 8.2 12.2



#59

Bromoform

Concen: 52.316 ug/L

RT: 12.349 min Scan# 1716

Delta R.T. 0.000 min

Lab File: VW027837.D

Acq: 09 Jan 2024 10:10

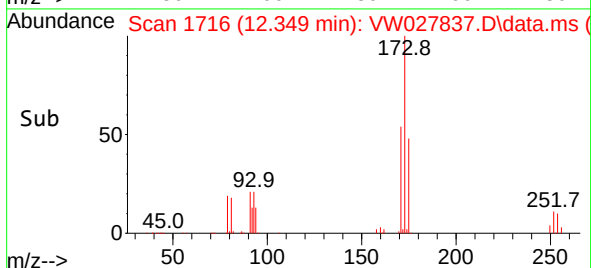
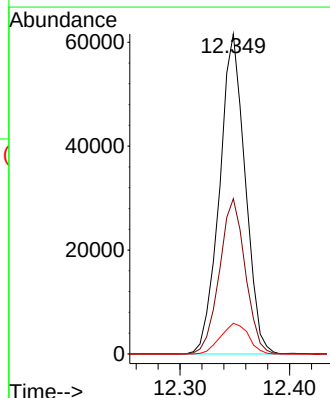
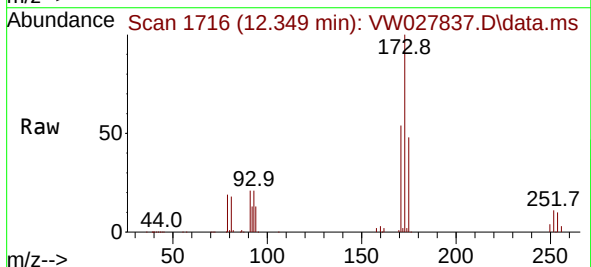
Tgt Ion:173 Resp: 99983

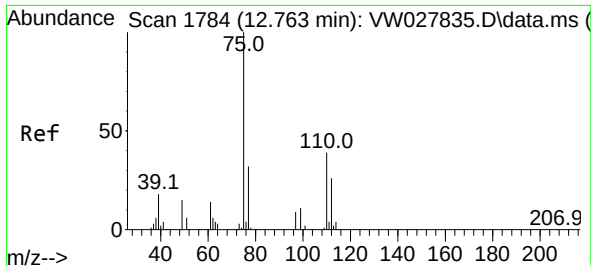
Ion Ratio Lower Upper

173 100

175 48.8 35.9 53.9

254 10.4 5.1 7.7#





#61

1,2,3-Trichloropropane

Concen: 69.943 ug/L

RT: 12.763 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW027837.D

Acq: 09 Jan 2024 10:10

Instrument :

MSVOA_W

ClientSampleId :

DCML7

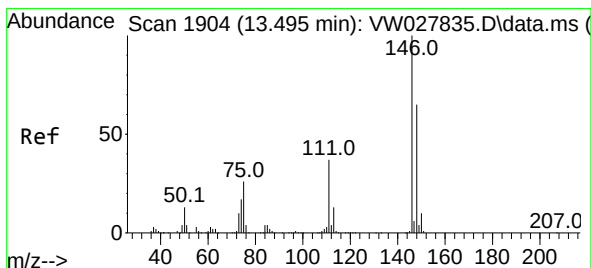
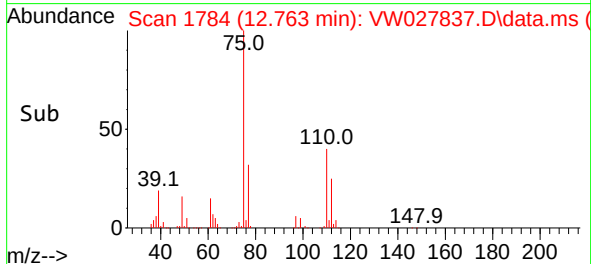
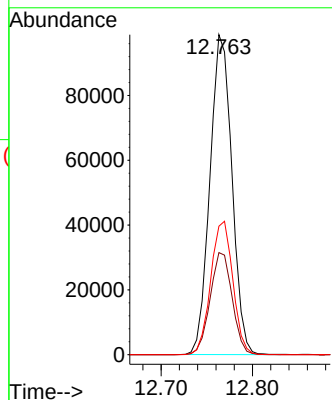
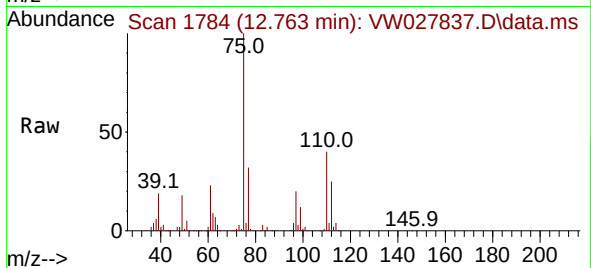
Tgt Ion: 75 Resp: 164839

Ion Ratio Lower Upper

75 100

77 32.1 26.1 39.1

110 42.0 33.1 49.7



#64

1,3-Dichlorobenzene

Concen: 68.781 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VW027837.D

Acq: 09 Jan 2024 10:10

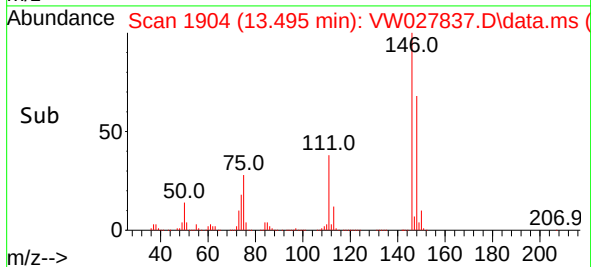
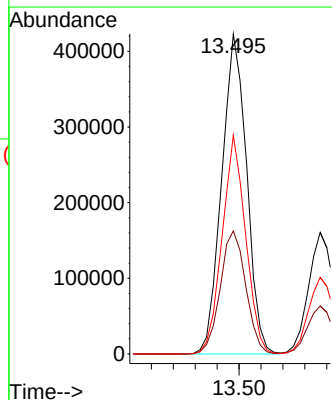
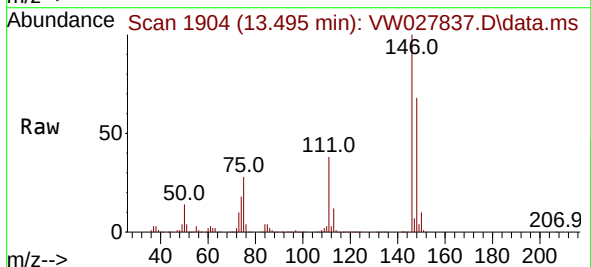
Tgt Ion:146 Resp: 667732

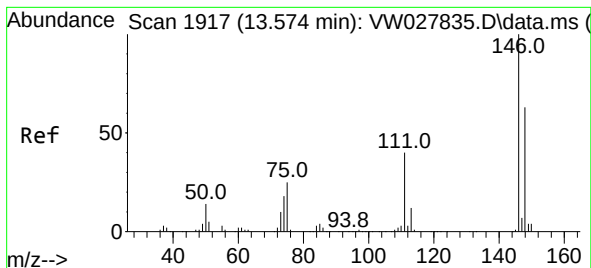
Ion Ratio Lower Upper

146 100

111 38.5 27.2 50.6

148 68.3 45.5 84.5





#65

1,4-Dichlorobenzene

Concen: 26.834 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. 0.000 min

Lab File: VW027837.D

Acq: 09 Jan 2024 10:10

Instrument :

MSVOA_W

ClientSampleId :

DCML7

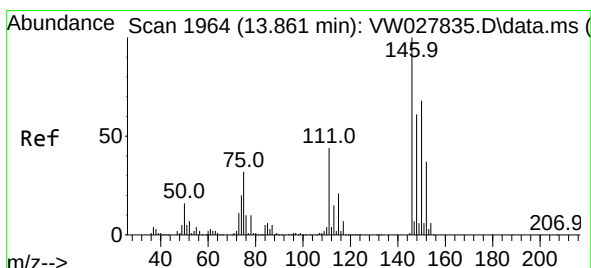
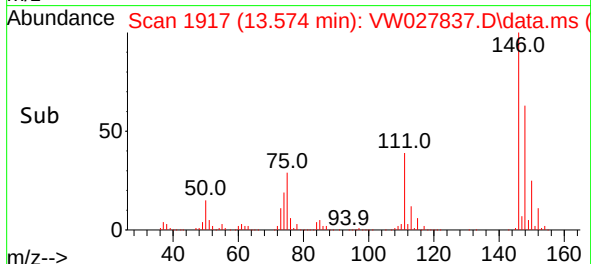
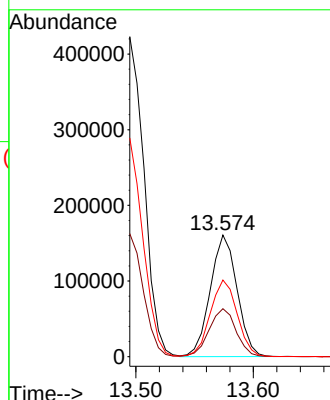
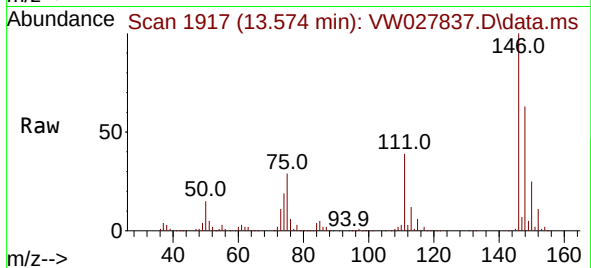
Tgt Ion:146 Resp: 254634

Ion Ratio Lower Upper

146 100

111 39.5 26.6 49.4

148 63.0 52.1 96.7



#67

1,2-Dichlorobenzene

Concen: 80.613 ug/L

RT: 13.867 min Scan# 1965

Delta R.T. 0.006 min

Lab File: VW027837.D

Acq: 09 Jan 2024 10:10

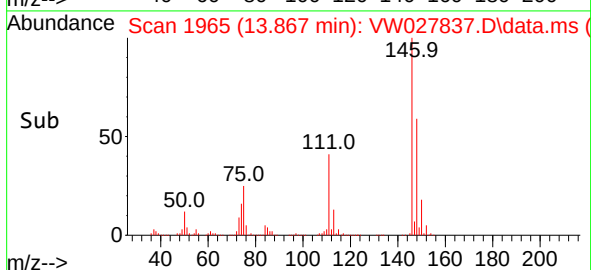
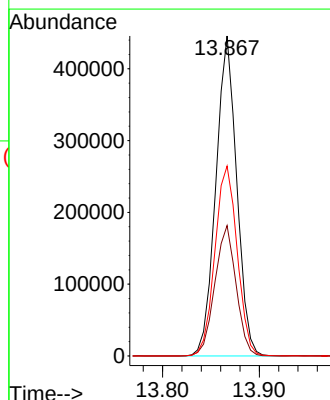
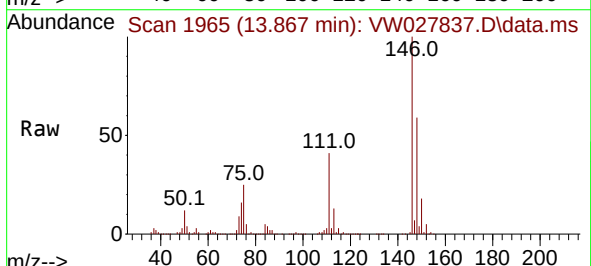
Tgt Ion:146 Resp: 667027

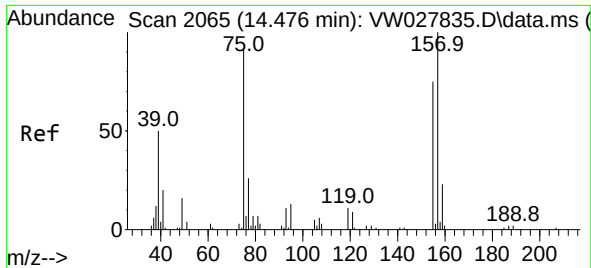
Ion Ratio Lower Upper

146 100

111 40.8 34.9 52.3

148 59.4 56.6 84.8





#68
 1,2-Dibromo-3-chloropropane
 Concen: 26.647 ug/L
 RT: 14.476 min Scan# 2065
 Delta R.T. 0.000 min
 Lab File: VW027837.D
 Acq: 09 Jan 2024 10:10

Instrument :
 MSVOA_W
 ClientSampleId :
 DCML7

Tgt Ion:	75	Resp:	12256
Ion	Ratio	Lower	Upper
75	100		
155	83.8	67.8	101.8
157	112.6	85.4	128.0

