

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW030323\
 Data File : VW030133.D
 Acq On : 03 Mar 2023 12:20
 Operator : SY/MD
 Sample : 01769-11
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 DCAH1

Quant Time: Mar 03 22:27:14 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR022323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Mar 03 22:25:34 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.542	114	149299	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.793	117	148045	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	76653	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	36980	3.828	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.600%
7) Chloroethane-d5	1.536	69	40548	4.471	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.400%
11) 1,1-Dichloroethene-d2	2.066	63	81169	4.087	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.800%
20) 2-Butanone-d5	3.828	46	94114	52.841	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.680%
24) Chloroform-d	4.262	84	92087	4.666	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.400%
26) 1,2-Dichloroethane-d4	4.953	65	40023	4.968	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.400%
32) Benzene-d6	4.970	84	171036	4.294	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.800%
36) 1,2-Dichloropropane-d6	5.998	67	54432	4.542	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.800%
41) Toluene-d8	7.252	98	138628	3.671	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	73.400%
43) trans-1,3-Dichloroprop...	7.561	79	16838	4.107	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.200%
46) 2-Hexanone-d5	8.034	63	83419	49.177	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.360%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	42134	4.942	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.800%
66) 1,2-Dichlorobenzene-d4	11.571	152	60692	4.680	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	67996	3.552	ug/L	100
6) Bromomethane	1.491	94	8594	3.764	ug/L	94
9) Trichlorofluoromethane	1.719	101	140529	7.700	ug/L	98
12) 1,1-Dichloroethene	2.076	96	36979	3.691	ug/L	95
13) Acetone	2.153	43	94970	72.143	ug/L #	51
14) Carbon disulfide	2.246	76	141800	5.289	ug/L	99
16) Methylene chloride	2.455	84	27769	2.269	ug/L	97
17) Methyl tert-butyl Ether	2.712	73	163358	8.337	ug/L	99
19) 1,1-Dichloroethane	3.118	63	164777	9.280	ug/L	99
21) 2-Butanone	3.902	43	202318	114.276	ug/L	98
27) 1,2-Dichloroethane	5.053	62	74036	7.663	ug/L	99
29) 1,1,1-Trichloroethane	4.523	97	150662	8.663	ug/L	99
30) Cyclohexane	4.593	56	158241	10.531	ug/L	98
34) Trichloroethene	5.841	95	55247	4.876	ug/L	99
35) Methylcyclohexane	6.060	83	97352	5.678	ug/L	96
37) 1,2-Dichloropropane	6.101	63	21782	2.118	ug/L	100
42) Toluene	7.323	91	365751	8.352	ug/L	99
47) Tetrachloroethene	7.912	164	80751	8.304	ug/L	99
48) 2-Hexanone	8.085	43	168544	55.467	ug/L	98

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

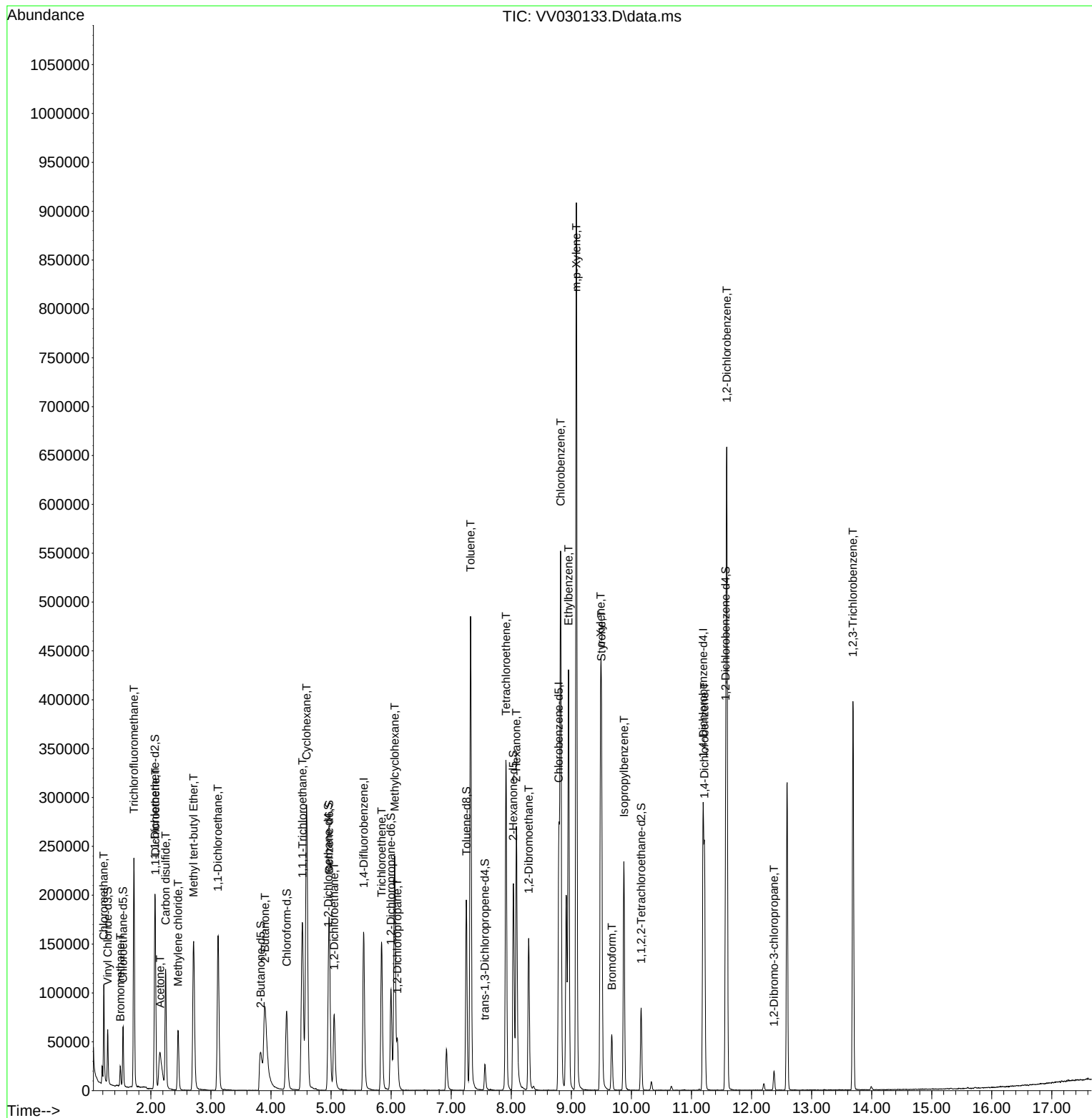
50) 1,2-Dibromoethane	8.291	107	108178	15.753	ug/L	98
51) Chlorobenzene	8.822	112	309626	10.484	ug/L	99
52) Ethylbenzene	8.953	91	301954	6.336	ug/L	99
53) m,p-Xylene	9.085	106	244483	13.348	ug/L	99
54) o-Xylene	9.487	106	90495	5.172	ug/L	99
55) Styrene	9.503	104	157972	5.429	ug/L	100
59) Bromoform	9.674	173	26191	5.701	ug/L	99
60) Isopropylbenzene	9.876	105	148569	3.368	ug/L	100
65) 1,4-Dichlorobenzene	11.217	146	96767	4.176	ug/L	98
67) 1,2-Dichlorobenzene	11.587	146	255761	12.613	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.374	75	4976	4.343	ug/L	95
72) 1,2,3-Trichlorobenzene	13.689	180	124722	9.907	ug/L	100

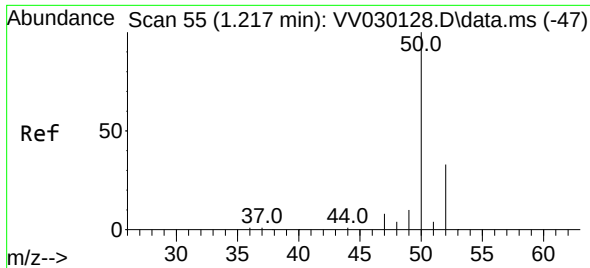
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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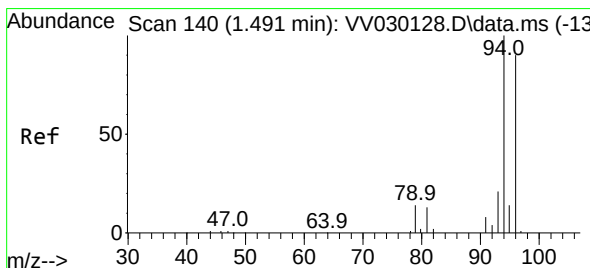
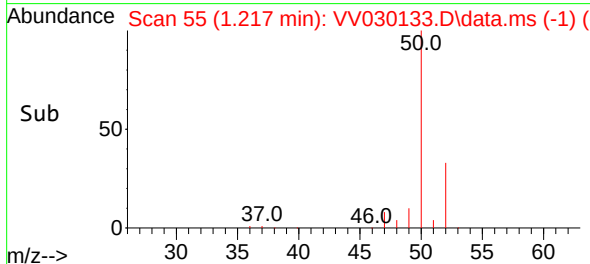
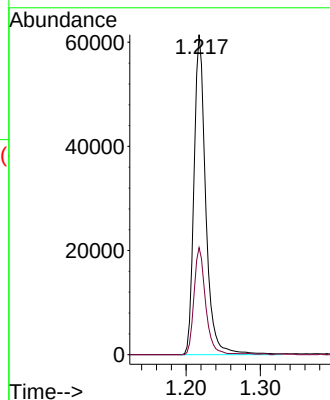
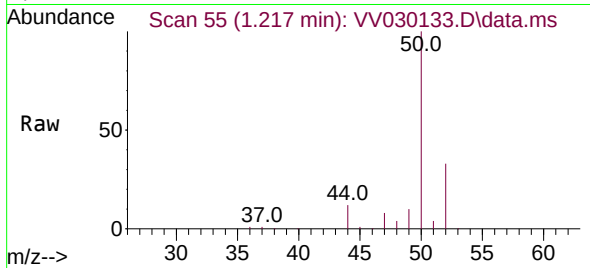




#3
Chloromethane
Concen: 3.552 ug/L
RT: 1.217 min Scan# 51
Delta R.T. 0.000 min
Lab File: VV030133.D
Acq: 03 Mar 2023 12:20

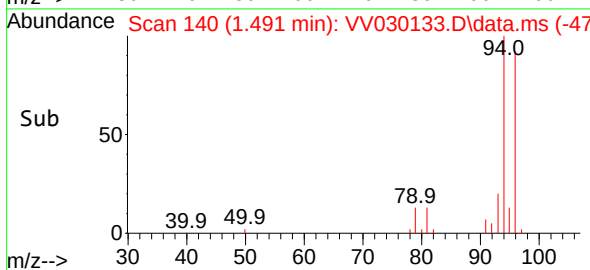
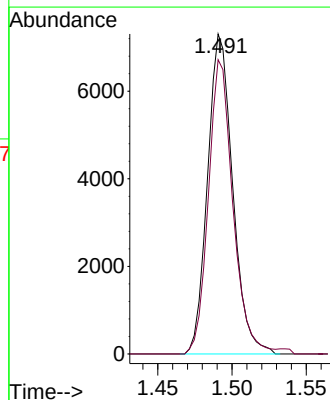
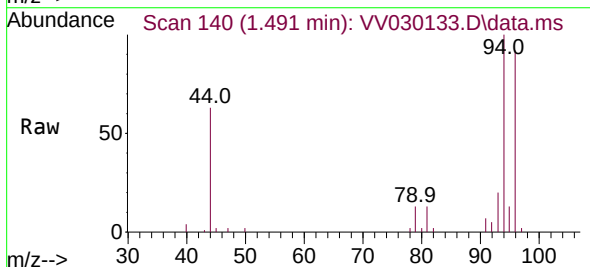
Instrument :
MSVOA_V
ClientSampleId :
DCAH1

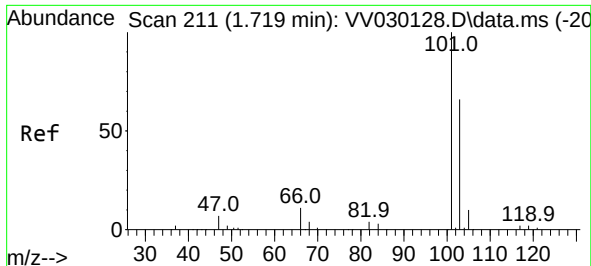
Tgt Ion: 50 Resp: 67996
Ion Ratio Lower Upper
50 100
52 33.5 23.6 43.8



#6
Bromomethane
Concen: 3.764 ug/L
RT: 1.491 min Scan# 140
Delta R.T. 0.000 min
Lab File: VV030133.D
Acq: 03 Mar 2023 12:20

Tgt Ion: 94 Resp: 8594
Ion Ratio Lower Upper
94 100
96 92.0 68.4 127.0

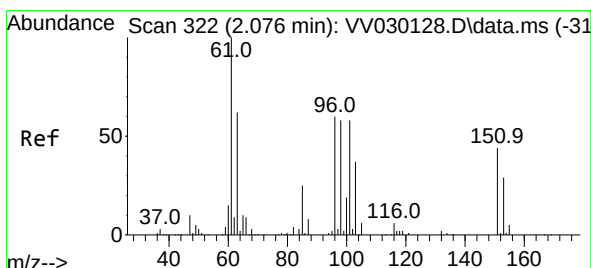
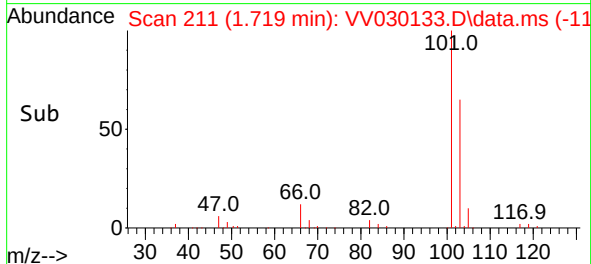
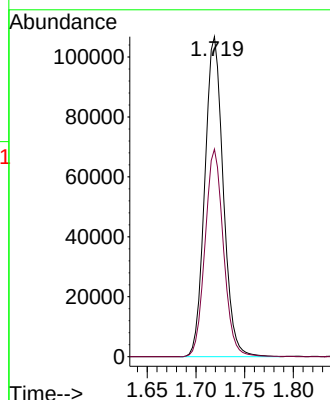
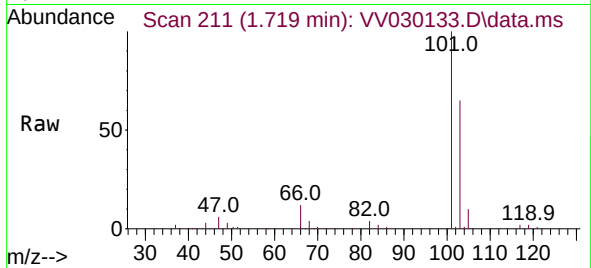




#9
 Trichlorofluoromethane
 Concen: 7.700 ug/L
 RT: 1.719 min Scan# 211
 Delta R.T. 0.000 min
 Lab File: VV030133.D
 Acq: 03 Mar 2023 12:20

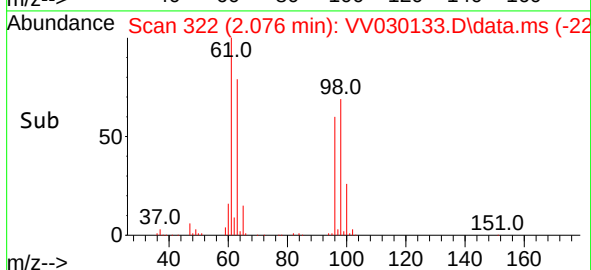
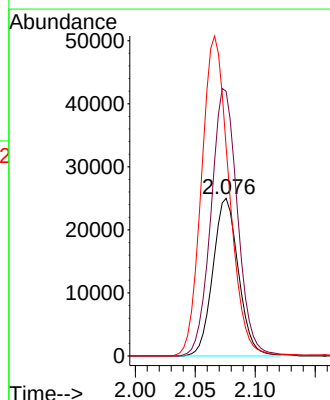
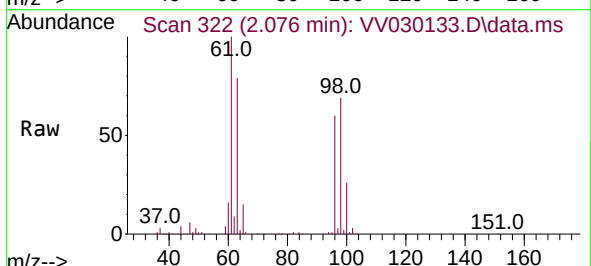
Instrument :
 MSVOA_V
 ClientSampleId :
 DCAH1

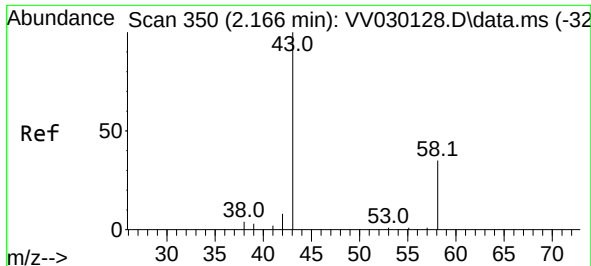
Tgt Ion:101 Resp: 140529
 Ion Ratio Lower Upper
 101 100
 103 64.7 52.7 79.1



#12
 1,1-Dichloroethene
 Concen: 3.691 ug/L
 RT: 2.076 min Scan# 322
 Delta R.T. 0.000 min
 Lab File: VV030133.D
 Acq: 03 Mar 2023 12:20

Tgt Ion: 96 Resp: 36979
 Ion Ratio Lower Upper
 96 100
 61 168.0 115.6 214.6
 63 132.9 85.6 159.0





#13

Acetone

Concen: 72.143 ug/L

RT: 2.153 min Scan# 346

Delta R.T. -0.013 min

Lab File: VV030133.D

Acq: 03 Mar 2023 12:20

Instrument :

MSVOA_V

ClientSampleId :

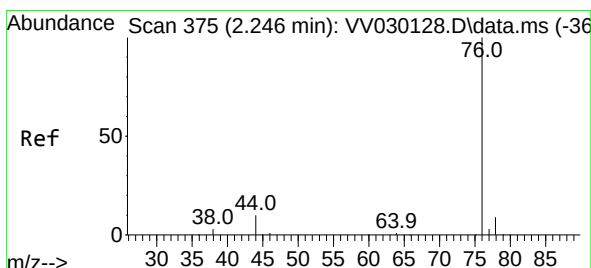
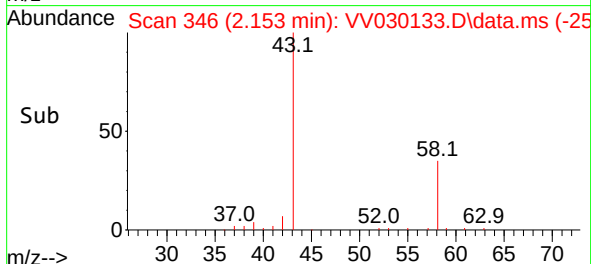
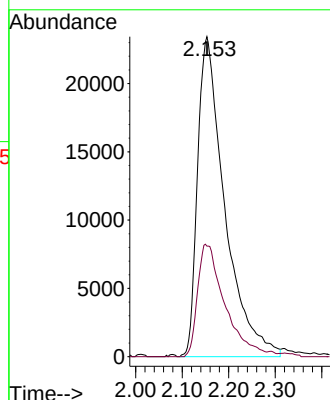
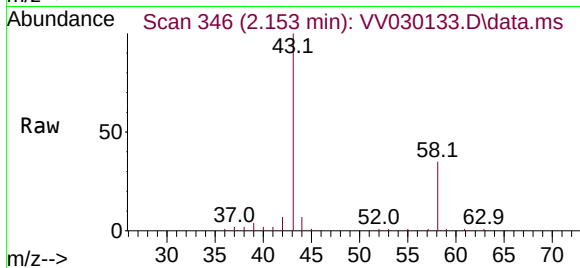
DCAH1

Tgt Ion: 43 Resp: 94970

Ion Ratio Lower Upper

43 100

58 35.0 0.0 29.4#



#14

Carbon disulfide

Concen: 5.289 ug/L

RT: 2.246 min Scan# 375

Delta R.T. 0.000 min

Lab File: VV030133.D

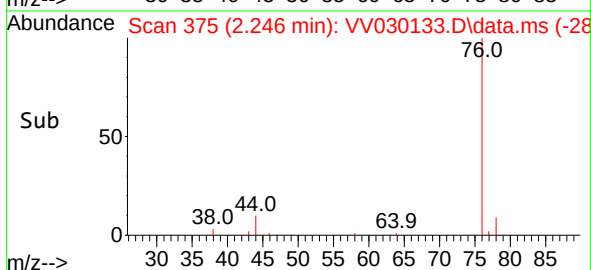
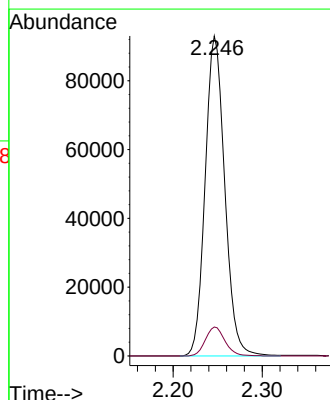
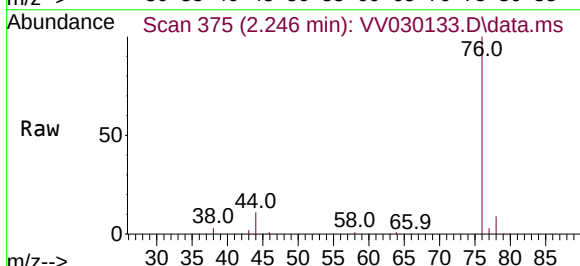
Acq: 03 Mar 2023 12:20

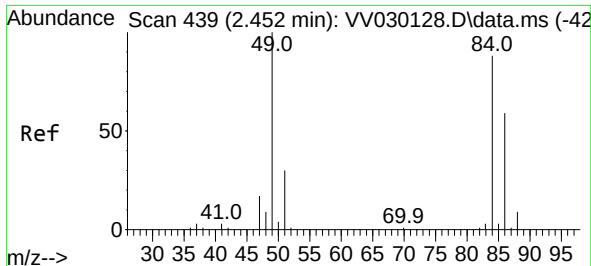
Tgt Ion: 76 Resp: 141800

Ion Ratio Lower Upper

76 100

78 9.1 7.7 11.5

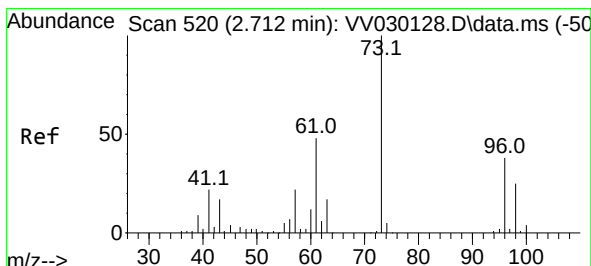
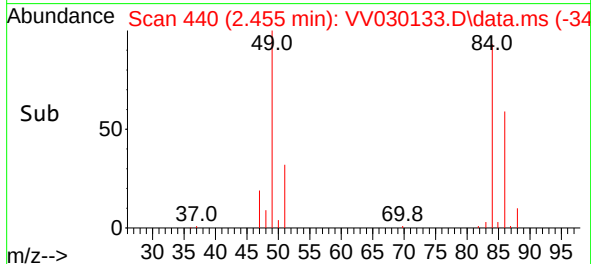
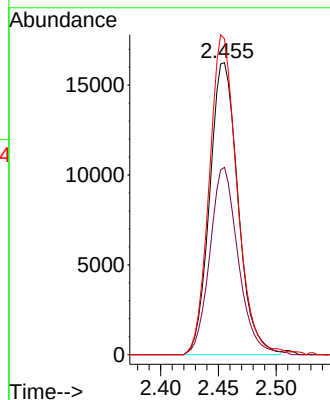
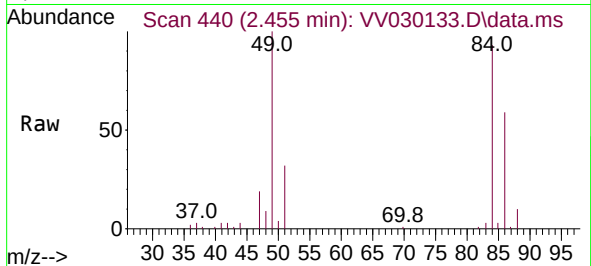




#16
Methylene chloride
Concen: 2.269 ug/L
RT: 2.455 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV030133.D
Acq: 03 Mar 2023 12:20

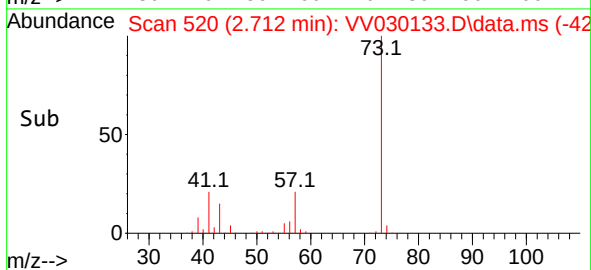
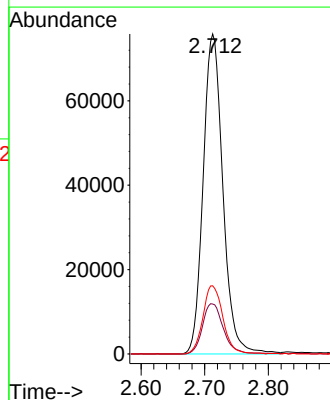
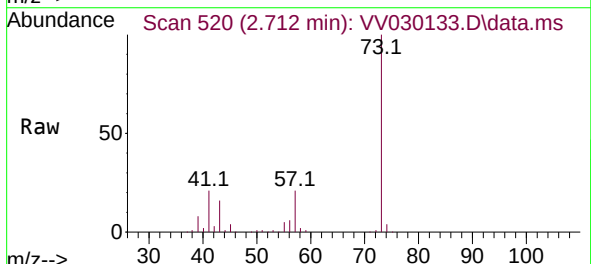
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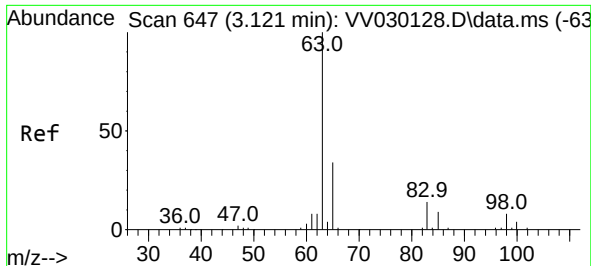
Tgt Ion: 84 Resp: 27769
Ion Ratio Lower Upper
84 100
86 64.1 44.7 83.1
49 108.1 78.8 146.3



#17
Methyl tert-butyl Ether
Concen: 8.337 ug/L
RT: 2.712 min Scan# 520
Delta R.T. 0.000 min
Lab File: VV030133.D
Acq: 03 Mar 2023 12:20

Tgt Ion: 73 Resp: 163358
Ion Ratio Lower Upper
73 100
43 16.6 13.4 20.2
57 21.5 16.8 25.2





#19

1,1-Dichloroethane

Concen: 9.280 ug/L

RT: 3.118 min Scan# 64

Delta R.T. -0.003 min

Lab File: VV030133.D

Acq: 03 Mar 2023 12:20

Instrument :

MSVOA_V

ClientSampleId :

DCAH1

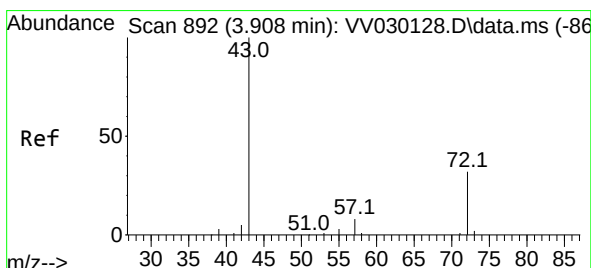
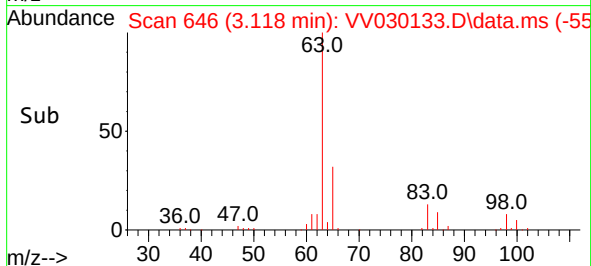
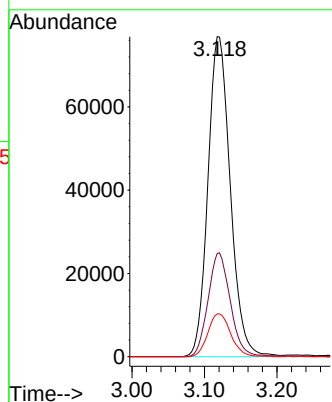
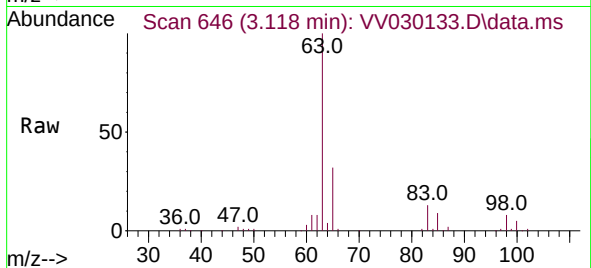
Tgt Ion: 63 Resp: 164777

Ion Ratio Lower Upper

63 100

65 32.2 23.0 42.8

83 13.4 9.6 17.8



#21

2-Butanone

Concen: 114.276 ug/L

RT: 3.902 min Scan# 890

Delta R.T. -0.006 min

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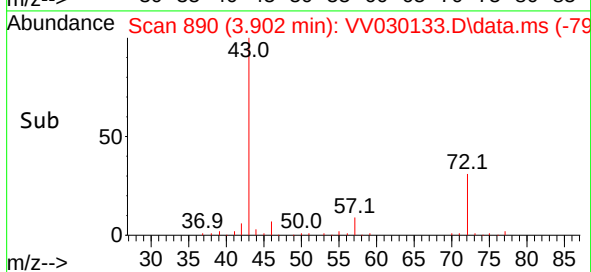
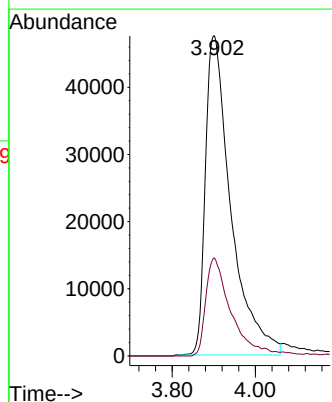
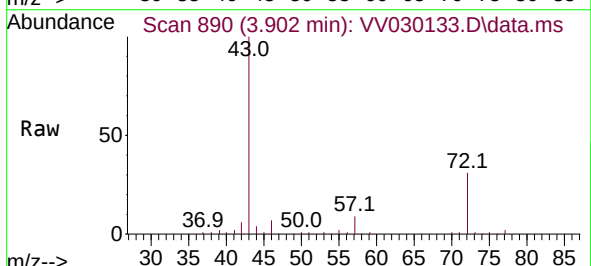
Acq: 03 Mar 2023 12:20

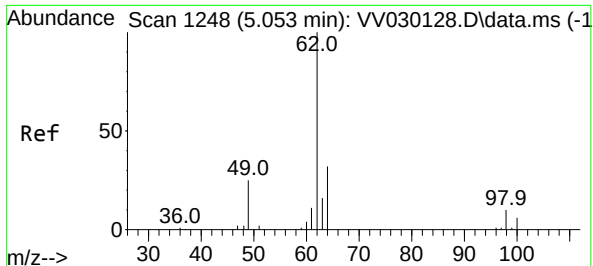
Tgt Ion: 43 Resp: 202318

Ion Ratio Lower Upper

43 100

72 29.2 15.1 45.3





#27

1,2-Dichloroethane

Concen: 7.663 ug/L

RT: 5.053 min Scan# 11

Delta R.T. 0.000 min

Lab File: VV030133.D

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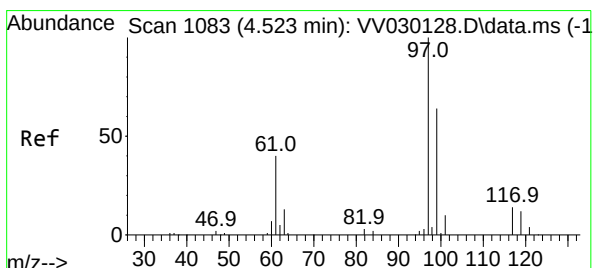
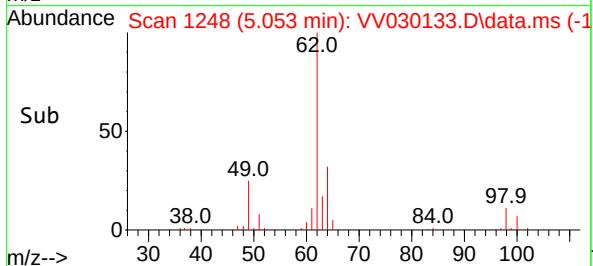
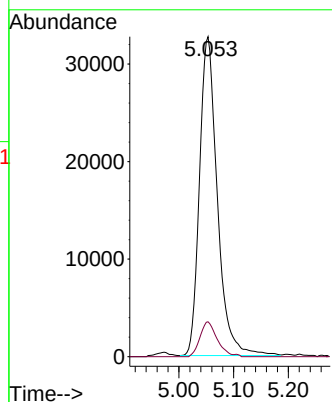
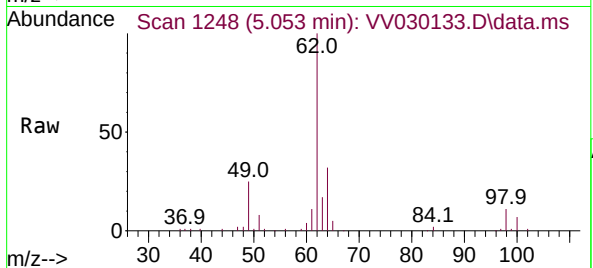
DCAH1

Tgt Ion: 62 Resp: 74036

Ion Ratio Lower Upper

62 100

98 10.9 9.0 13.4



#29

1,1,1-Trichloroethane

Concen: 8.663 ug/L

RT: 4.523 min Scan# 1083

Delta R.T. 0.000 min

Lab File: VV030133.D

Acq: 03 Mar 2023 12:20

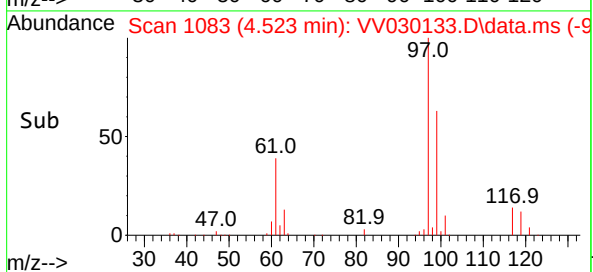
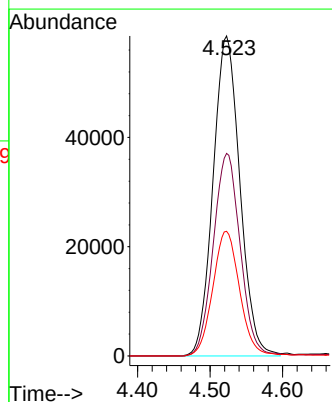
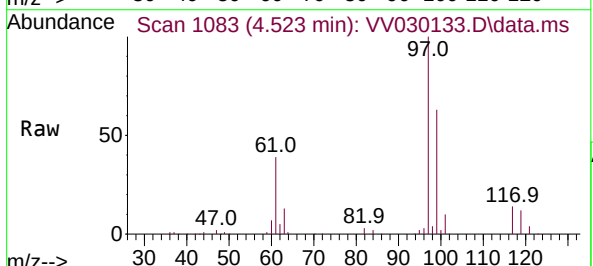
Tgt Ion: 97 Resp: 150662

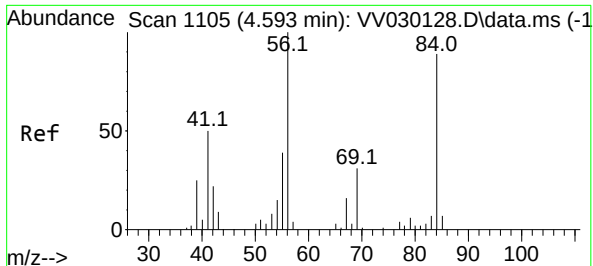
Ion Ratio Lower Upper

97 100

99 63.6 51.3 76.9

61 38.9 31.5 47.3

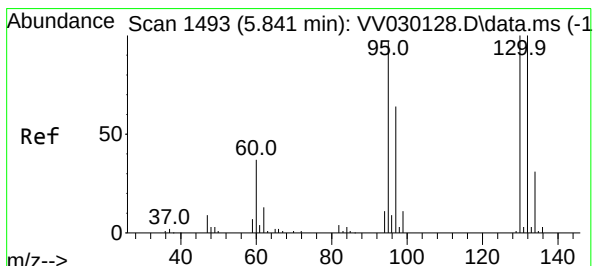
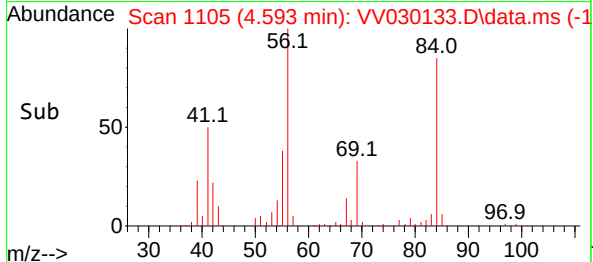
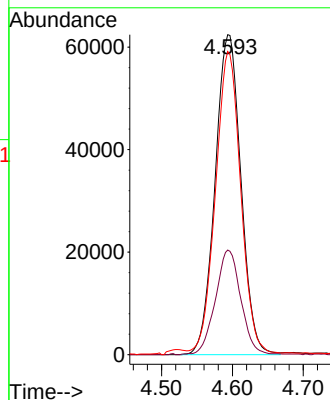
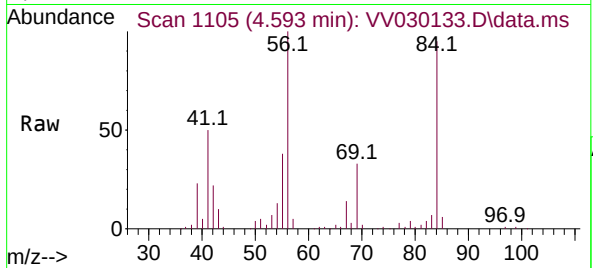




#30
Cyclohexane
Concen: 10.531 ug/L
RT: 4.593 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VV030133.D
Acq: 03 Mar 2023 12:20

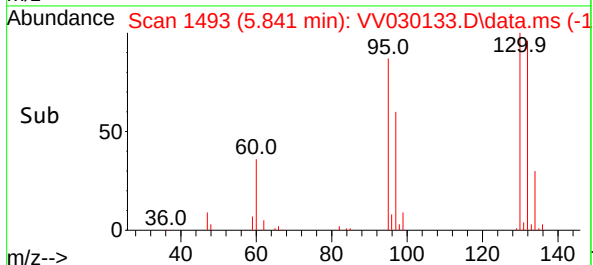
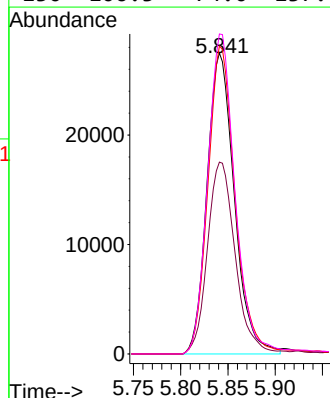
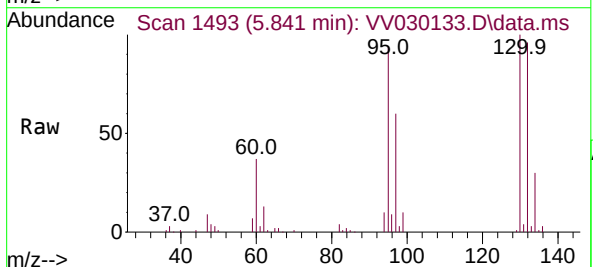
Instrument :
MSVOA_V
ClientSampleId :
DCAH1

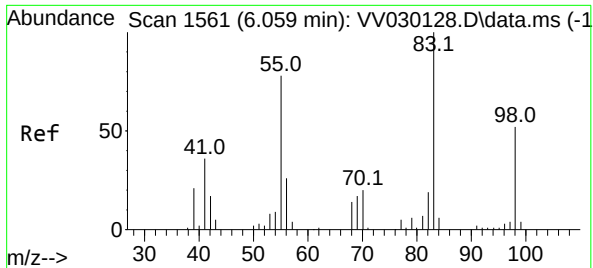
Tgt Ion: 56 Resp: 158241
Ion Ratio Lower Upper
56 100
69 32.2 25.1 37.7
84 91.4 74.6 111.8



#34
Trichloroethene
Concen: 4.876 ug/L
RT: 5.841 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VV030133.D
Acq: 03 Mar 2023 12:20

Tgt Ion: 95 Resp: 55247
Ion Ratio Lower Upper
95 100
97 63.7 46.5 86.5
132 102.3 71.7 133.3
130 106.3 74.0 137.4

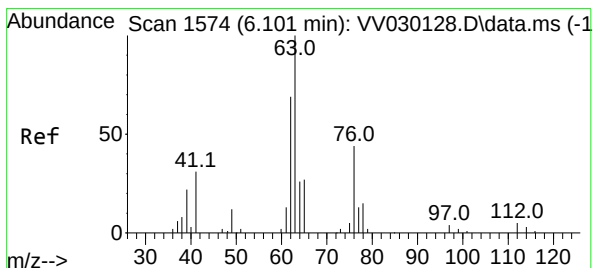
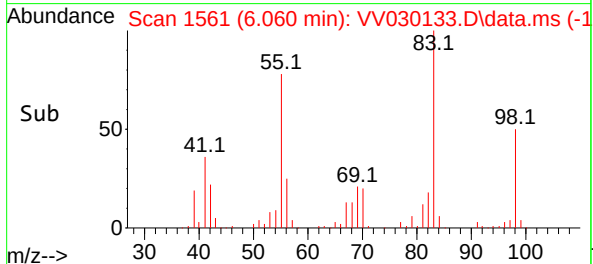
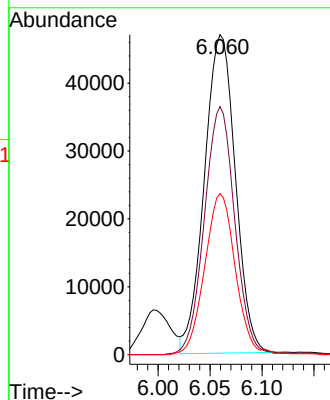
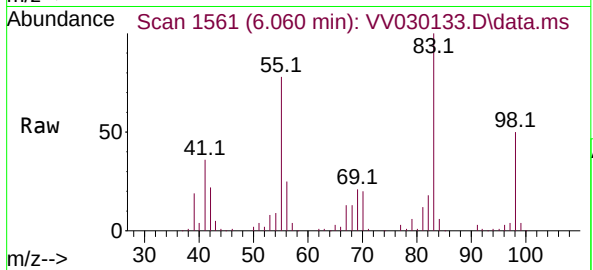




#35
Methylcyclohexane
Concen: 5.678 ug/L
RT: 6.060 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV030133.D
Acq: 03 Mar 2023 12:20

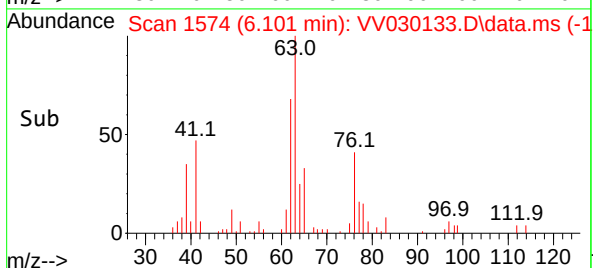
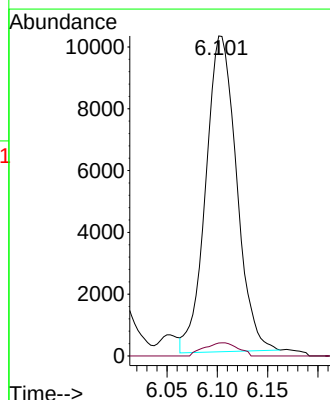
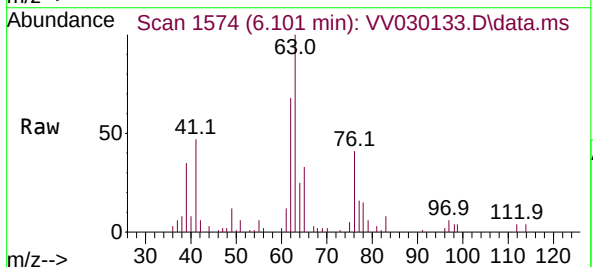
Instrument :
MSVOA_V
ClientSampleId :
DCAH1

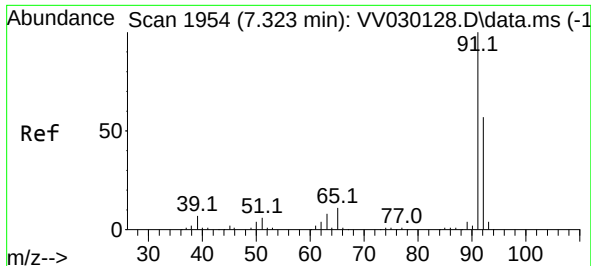
Tgt Ion: 83 Resp: 97352
Ion Ratio Lower Upper
83 100
55 76.8 57.6 86.4
98 49.8 38.8 58.2



#37
1,2-Dichloropropane
Concen: 2.118 ug/L
RT: 6.101 min Scan# 1574
Delta R.T. 0.000 min
Lab File: VV030133.D
Acq: 03 Mar 2023 12:20

Tgt Ion: 63 Resp: 21782
Ion Ratio Lower Upper
63 100
112 4.5 3.8 5.6

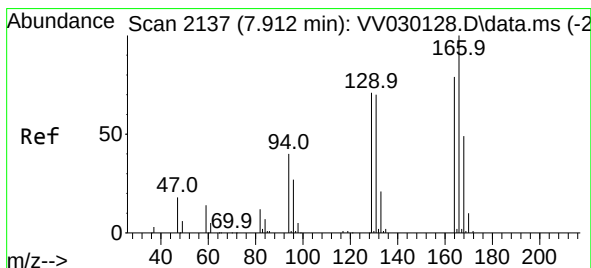
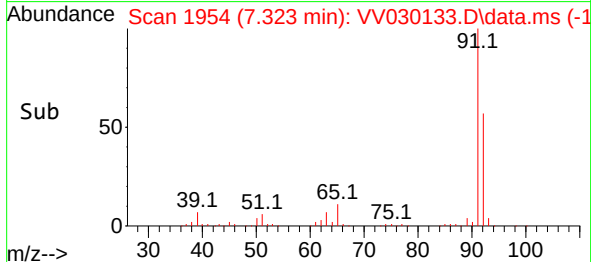
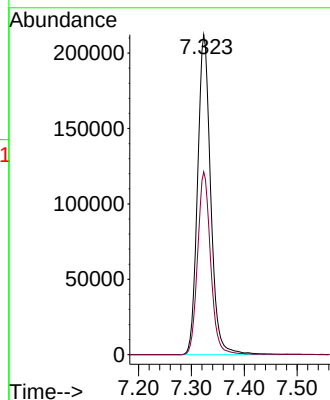
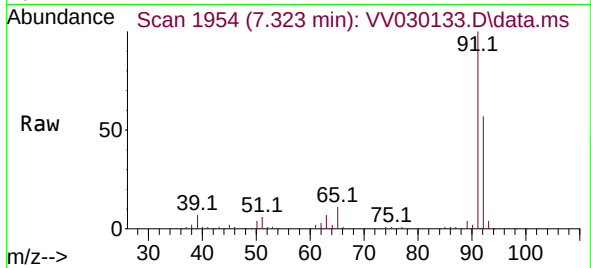




#42
Toluene
Concen: 8.352 ug/L
RT: 7.323 min Scan# 1954
Delta R.T. 0.000 min
Lab File: VV030133.D
Acq: 03 Mar 2023 12:20

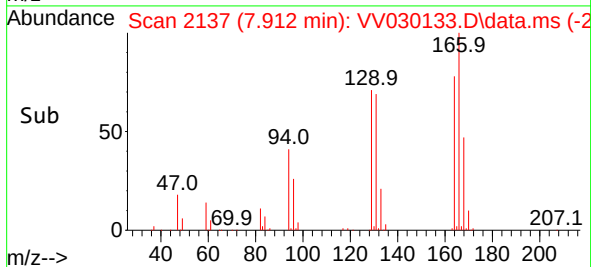
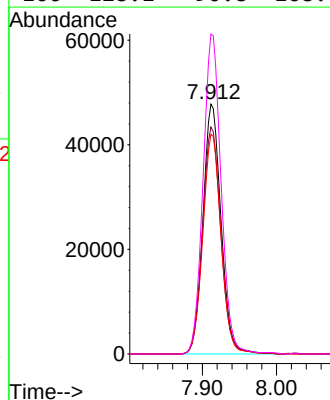
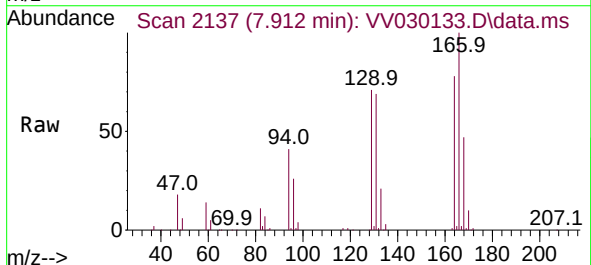
Instrument : MSVOA_V
ClientSampleId : DCAH1

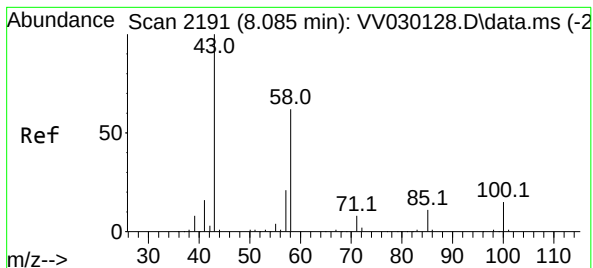
Tgt Ion: 91 Resp: 365751
Ion Ratio Lower Upper
91 100
92 57.2 39.6 73.6



#47
Tetrachloroethene
Concen: 8.304 ug/L
RT: 7.912 min Scan# 2137
Delta R.T. 0.000 min
Lab File: VV030133.D
Acq: 03 Mar 2023 12:20

Tgt Ion: 164 Resp: 80751
Ion Ratio Lower Upper
164 100
129 90.8 63.6 118.2
131 88.0 61.7 114.7
166 128.1 90.8 168.6





#48

2-Hexanone

Concen: 55.467 ug/L

RT: 8.085 min Scan# 2191

Delta R.T. 0.000 min

Lab File: VV030133.D

Acq: 03 Mar 2023 12:20

Instrument :

MSVOA_V

ClientSampleId :

DCAH1

Tgt Ion: 43 Resp: 168544

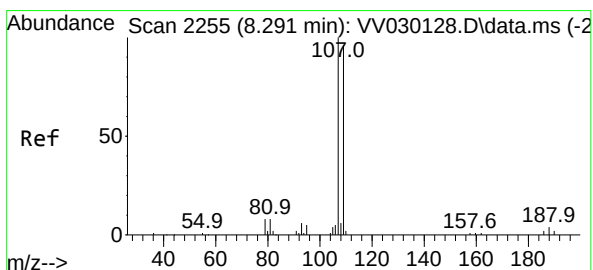
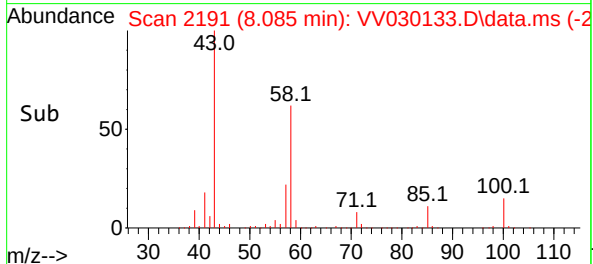
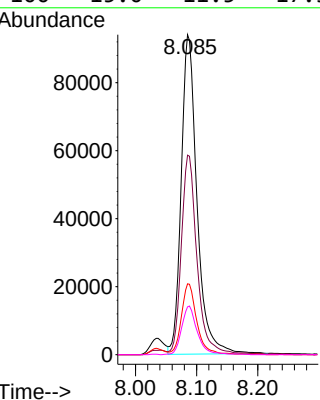
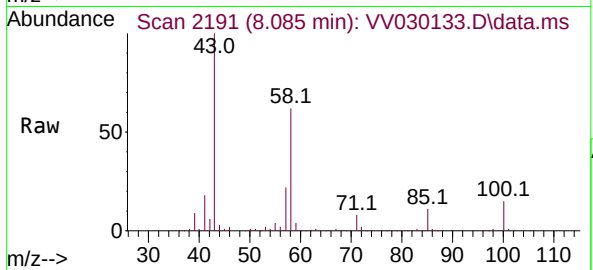
Ion Ratio Lower Upper

43 100

58 60.6 49.8 74.8

57 21.3 16.6 24.8

100 15.0 11.5 17.3



#50

1,2-Dibromoethane

Concen: 15.753 ug/L

RT: 8.291 min Scan# 2255

Delta R.T. 0.000 min

Lab File: VV030133.D

Acq: 03 Mar 2023 12:20

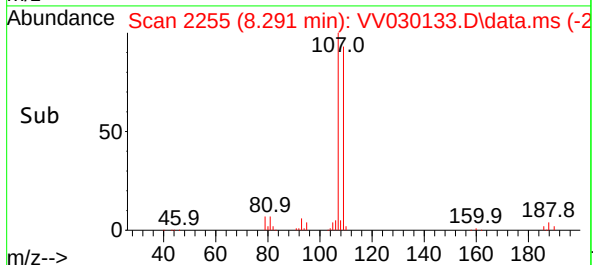
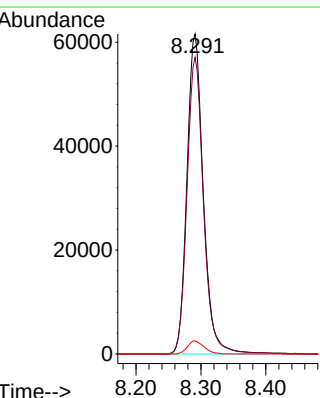
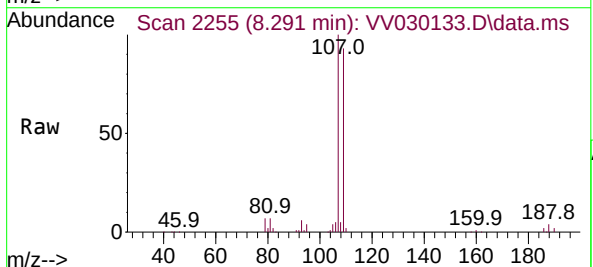
Tgt Ion: 107 Resp: 108178

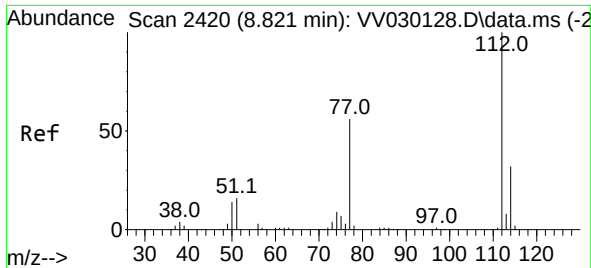
Ion Ratio Lower Upper

107 100

109 92.7 63.3 117.7

188 4.0 3.0 4.6

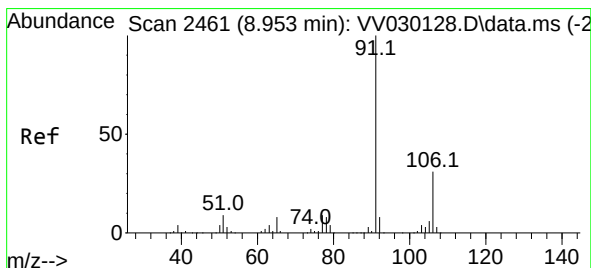
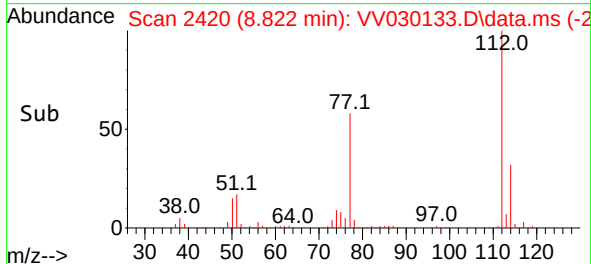
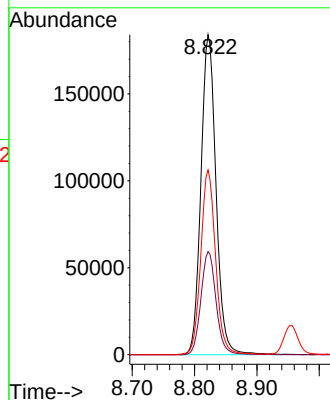
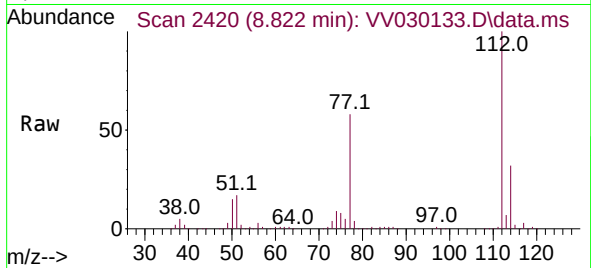




#51
Chlorobenzene
Concen: 10.484 ug/L
RT: 8.822 min Scan# 2420
Delta R.T. 0.000 min
Lab File: VV030133.D
Acq: 03 Mar 2023 12:20

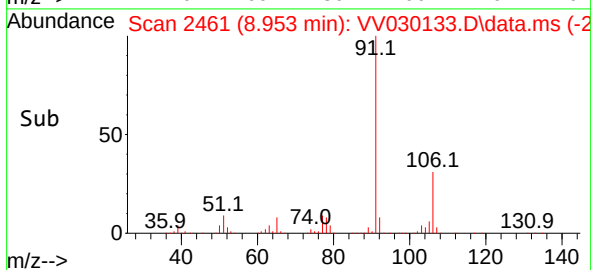
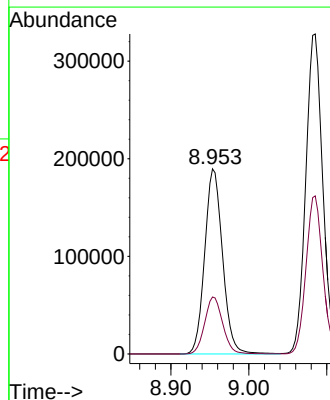
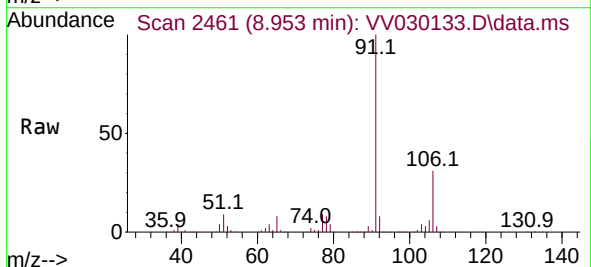
Instrument :
MSVOA_V
ClientSampleId :
DCAH1

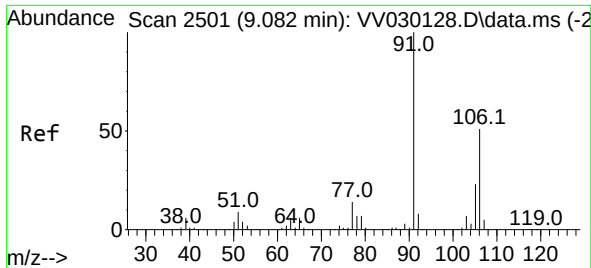
Tgt Ion:112 Resp: 309626
Ion Ratio Lower Upper
112 100
114 32.2 22.5 41.7
77 57.7 45.3 67.9



#52
Ethylbenzene
Concen: 6.336 ug/L
RT: 8.953 min Scan# 2461
Delta R.T. 0.000 min
Lab File: VV030133.D
Acq: 03 Mar 2023 12:20

Tgt Ion: 91 Resp: 301954
Ion Ratio Lower Upper
91 100
106 30.8 22.0 40.8

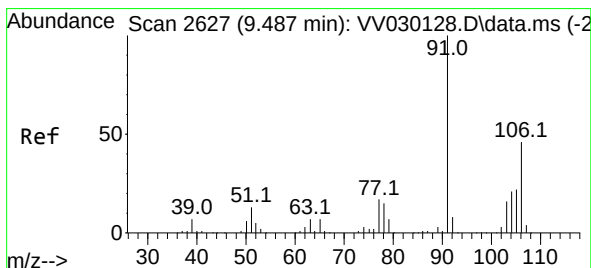
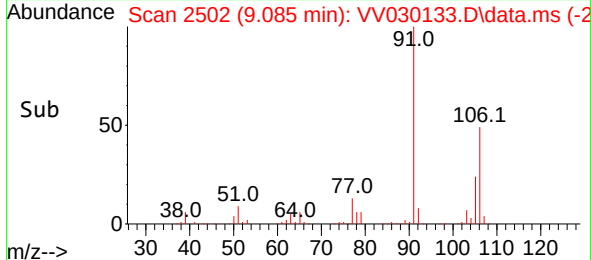
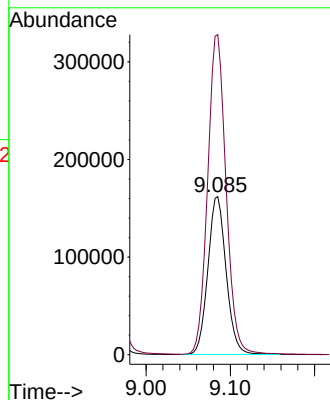
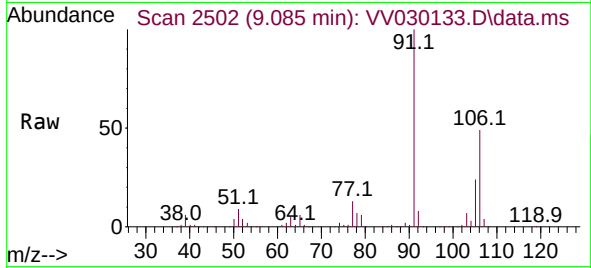




#53
m,p-Xylene
Concen: 13.348 ug/L
RT: 9.085 min Scan# 2501
Delta R.T. 0.003 min
Lab File: VV030133.D
Acq: 03 Mar 2023 12:20

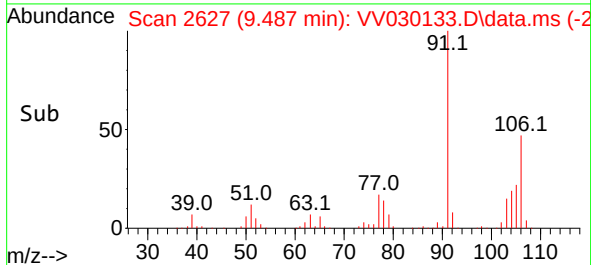
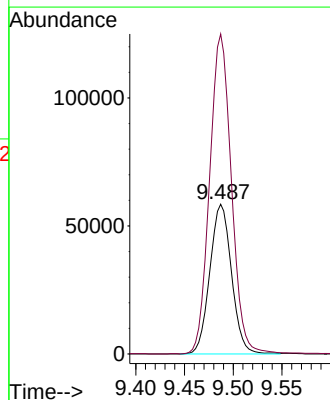
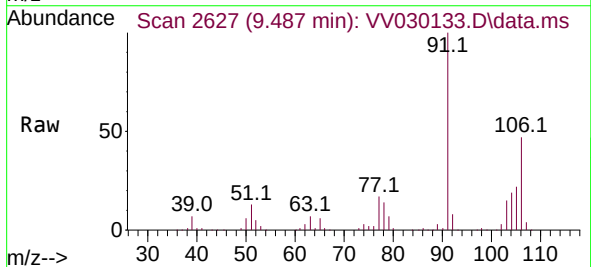
Instrument :
MSVOA_V
ClientSampleId :
DCAH1

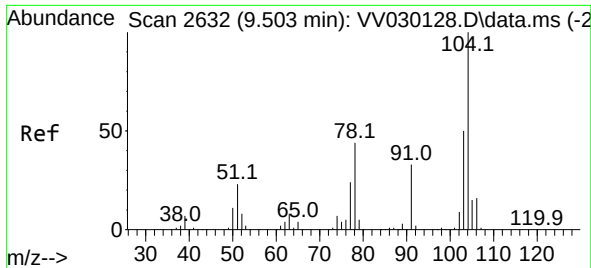
Tgt Ion:106 Resp: 244483
Ion Ratio Lower Upper
106 100
91 202.5 142.5 264.7



#54
o-Xylene
Concen: 5.172 ug/L
RT: 9.487 min Scan# 2627
Delta R.T. 0.000 min
Lab File: VV030133.D
Acq: 03 Mar 2023 12:20

Tgt Ion:106 Resp: 90495
Ion Ratio Lower Upper
106 100
91 213.6 148.8 276.4

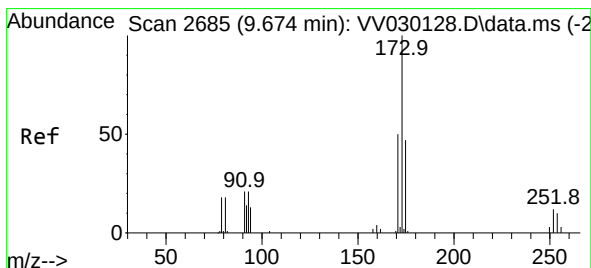
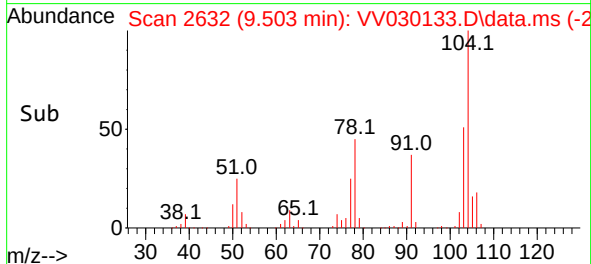
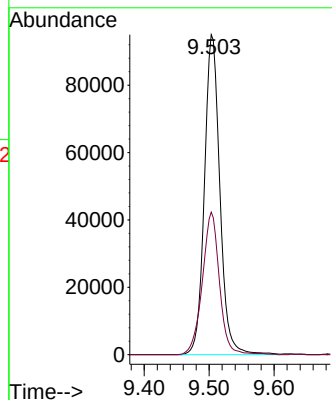
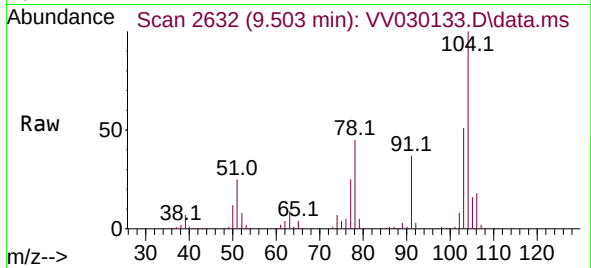




#55
Styrene
Concen: 5.429 ug/L
RT: 9.503 min Scan# 2632
Delta R.T. 0.000 min
Lab File: VV030133.D
Acq: 03 Mar 2023 12:20

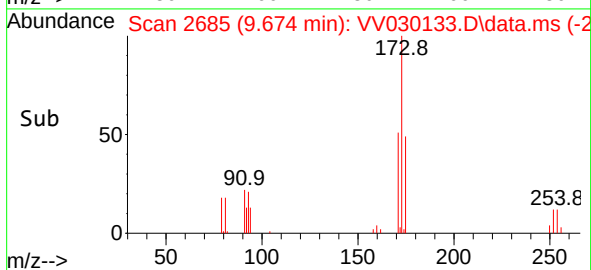
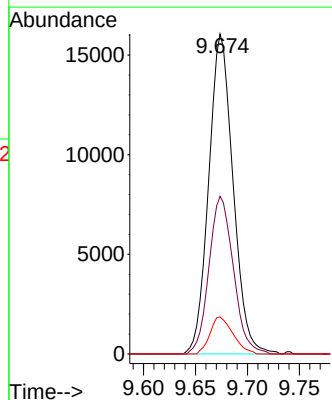
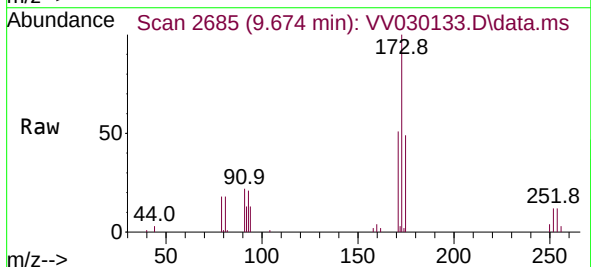
Instrument :
MSVOA_V
ClientSampleId :
DCAH1

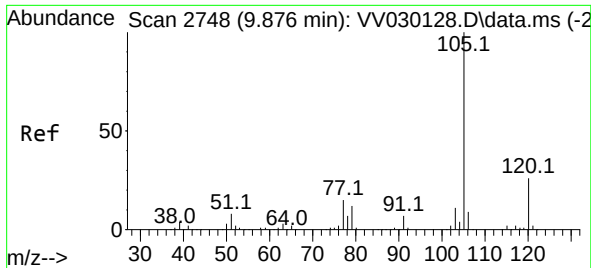
Tgt Ion:104 Resp: 157972
Ion Ratio Lower Upper
104 100
78 44.6 31.1 57.9



#59
Bromoform
Concen: 5.701 ug/L
RT: 9.674 min Scan# 2685
Delta R.T. 0.000 min
Lab File: VV030133.D
Acq: 03 Mar 2023 12:20

Tgt Ion:173 Resp: 26191
Ion Ratio Lower Upper
173 100
175 49.3 38.5 57.7
254 10.9 8.6 13.0

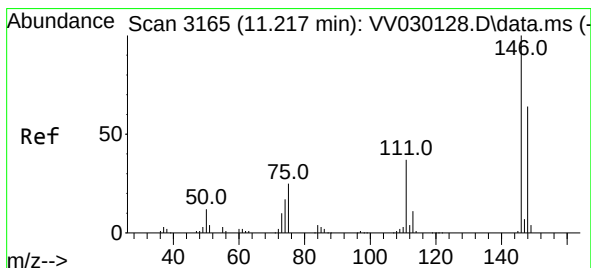
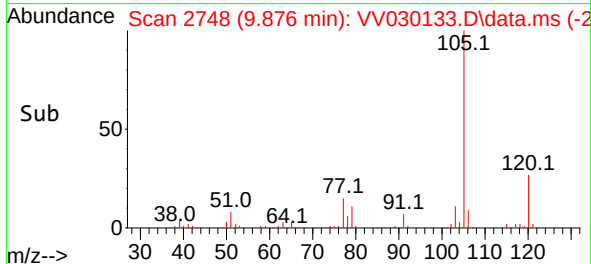
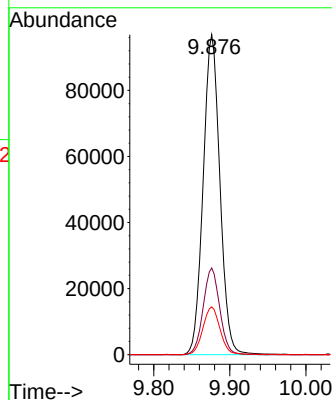
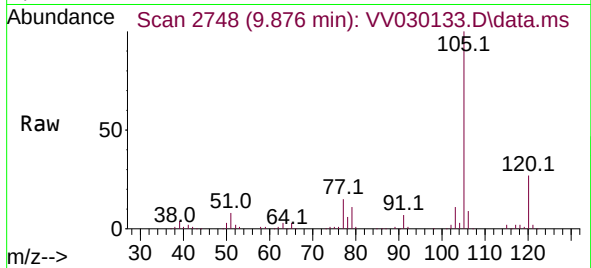




#60
Isopropylbenzene
Concen: 3.368 ug/L
RT: 9.876 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV030133.D
Acq: 03 Mar 2023 12:20

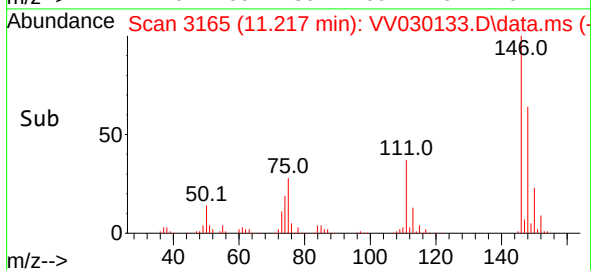
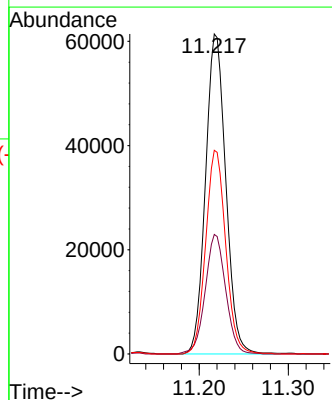
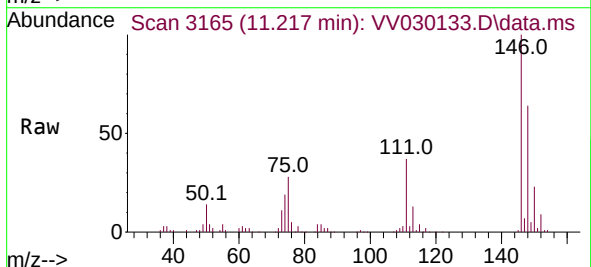
Instrument :
MSVOA_V
ClientSampleId :
DCAH1

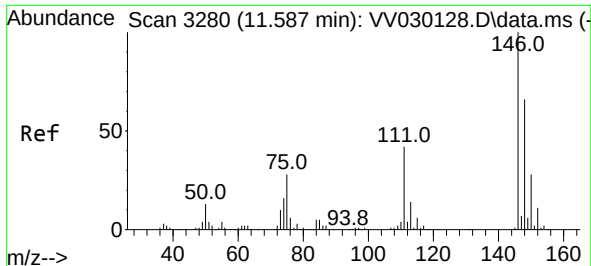
Tgt Ion:105 Resp: 148569
Ion Ratio Lower Upper
105 100
120 26.7 21.4 32.0
77 15.3 12.1 18.1



#65
1,4-Dichlorobenzene
Concen: 4.176 ug/L
RT: 11.217 min Scan# 3165
Delta R.T. 0.000 min
Lab File: VV030133.D
Acq: 03 Mar 2023 12:20

Tgt Ion:146 Resp: 96767
Ion Ratio Lower Upper
146 100
111 37.4 27.4 51.0
148 63.7 44.1 81.9





#67

1,2-Dichlorobenzene

Concen: 12.613 ug/L

RT: 11.587 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV030133.D

Acq: 03 Mar 2023 12:20

Instrument :

MSVOA_V

ClientSampleId :

DCAH1

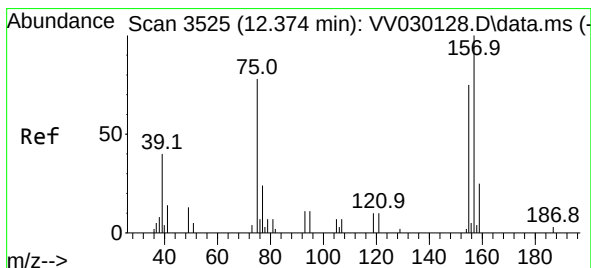
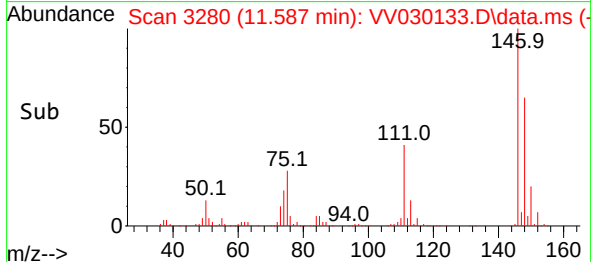
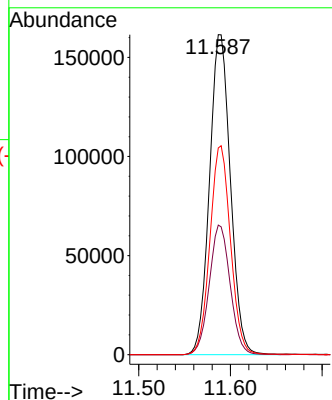
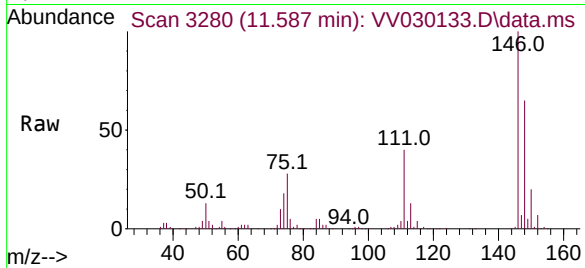
Tgt Ion:146 Resp: 255761

Ion Ratio Lower Upper

146 100

111 40.5 33.5 50.3

148 64.6 51.3 76.9



#68

1,2-Dibromo-3-chloropropane

Concen: 4.343 ug/L

RT: 12.374 min Scan# 3525

Delta R.T. 0.000 min

Lab File: VV030133.D

Acq: 03 Mar 2023 12:20

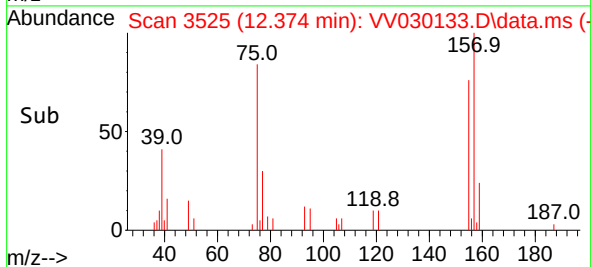
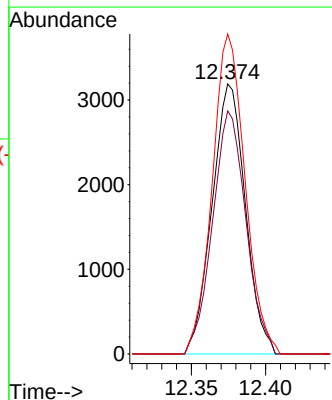
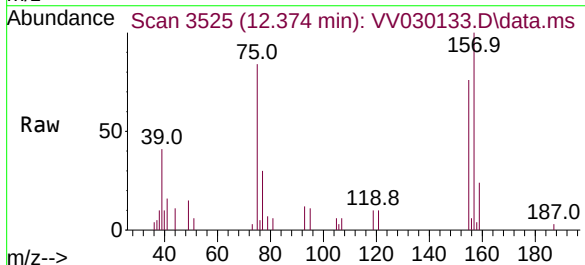
Tgt Ion: 75 Resp: 4976

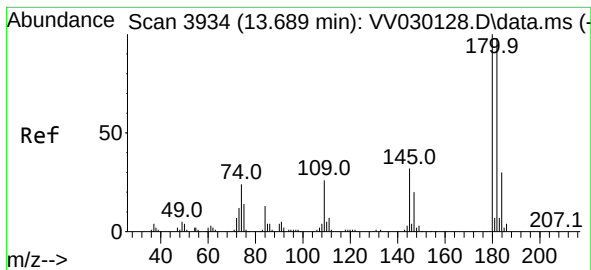
Ion Ratio Lower Upper

75 100

155 90.0 79.1 118.7

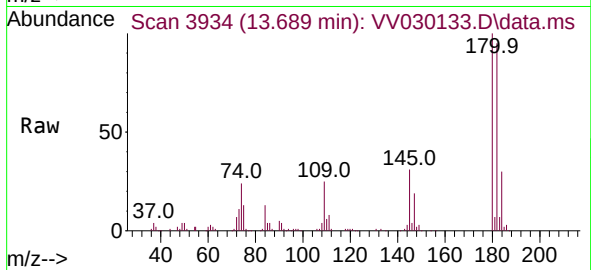
157 118.5 95.5 143.3





#72
 1,2,3-Trichlorobenzene
 Concen: 9.907 ug/L
 RT: 13.689 min Scan# 3934
 Delta R.T. 0.000 min
 Lab File: VV030133.D
 Acq: 03 Mar 2023 12:20

Instrument :
 MSVOA_V
 ClientSampleId :
 DCAH1



Tgt Ion:180 Resp: 124722
 Ion Ratio Lower Upper
 180 100
 182 95.6 76.2 114.2
 145 31.6 25.1 37.7

