

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U061623\
 Data File : VU054564.D
 Acq On : 16 Jun 2023 11:21
 Operator : MD/SY
 Sample : 03258-15
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DCGY7

Quant Time: Jun 17 06:12:52 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR060723WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Jun 17 06:10:25 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	262127	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	253191	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	135337	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.599	65	58469	3.505	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	70.000%
7) Chloroethane-d5	1.914	69	77640	4.971	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.400%
11) 1,1-Dichloroethene-d2	2.563	65	29159	3.914	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.200%
20) 2-Butanone-d5	4.627	46	246136	52.478	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.960%
24) Chloroform-d	5.058	84	187904	5.389	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.800%
26) 1,2-Dichloroethane-d4	5.698	65	85946	5.056	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.200%
32) Benzene-d6	5.724	84	333125	4.733	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.600%
36) 1,2-Dichloropropane-d6	6.685	67	116411	4.953	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.000%
41) Toluene-d8	7.894	98	300757	4.815	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.200%
43) trans-1,3-Dichloroprop...	8.177	79	36629	4.481	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.600%
46) 2-Hexanone-d5	8.627	63	169769	49.507	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.020%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	86238	4.920	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.400%
66) 1,2-Dichlorobenzene-d4	12.190	152	113023	4.951	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.383	85	97068	3.963	ug/L	99
5) Vinyl chloride	1.602	62	132098	4.574	ug/L	96
8) Chloroethane	1.933	64	273889	15.822	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.579	101	250456	12.058	ug/L	97
12) 1,1-Dichloroethene	2.579	96	48794	2.566	ug/L #	86
13) Acetone	2.640	43	560737	126.797	ug/L	97
15) Methyl Acetate	2.952	43	91334	11.145	ug/L	99
18) trans-1,2-Dichloroethene	3.351	96	66513	3.388	ug/L	96
19) 1,1-Dichloroethane	3.869	63	98361	2.421	ug/L	98
22) cis-1,2-Dichloroethene	4.660	96	105374	4.714	ug/L	94
23) Bromochloromethane	4.971	128	56058	6.027	ug/L	90
25) Chloroform	5.084	83	359695	8.981	ug/L	97
27) 1,2-Dichloroethane	5.791	62	52384	2.231	ug/L	100
29) 1,1,1-Trichloroethane	5.312	97	78502	2.286	ug/L	98
31) Carbon tetrachloride	5.521	117	103321	3.492	ug/L	99
34) Trichloroethene	6.541	95	59761	2.484	ug/L	94
39) cis-1,3-Dichloropropene	7.602	75	169592	5.049	ug/L	99
40) 4-Methyl-2-pentanone	7.785	43	816306	62.172	ug/L	98
44) trans-1,3-Dichloropropene	8.206	75	69852	2.562	ug/L	98

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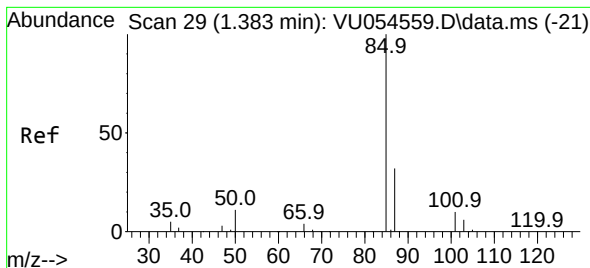
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

45) 1,1,2-Trichloroethane	8.396	97	36229	2.315	ug/L	98
47) Tetrachloroethene	8.550	164	63854	3.467	ug/L	98
50) 1,2-Dibromoethane	8.920	107	81340	5.660	ug/L	97
51) Chlorobenzene	9.444	112	394728	6.757	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.778	83	34302	1.725	ug/L	95
59) Bromoform	10.286	173	34053	3.505	ug/L	96
63) 1,2,4-Trimethylbenzene	11.463	105	370851	4.520	ug/L	99
64) 1,3-Dichlorobenzene	11.743	146	160951	3.478	ug/L	97
65) 1,4-Dichlorobenzene	11.833	146	107437	2.313	ug/L	99
70) 1,2,4-trichlorobenzene	13.836	180	154895	5.365	ug/L	99
72) 1,2,3-Trichlorobenzene	14.325	180	83845	3.380	ug/L	98

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

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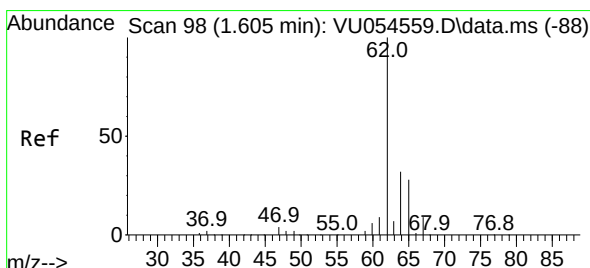
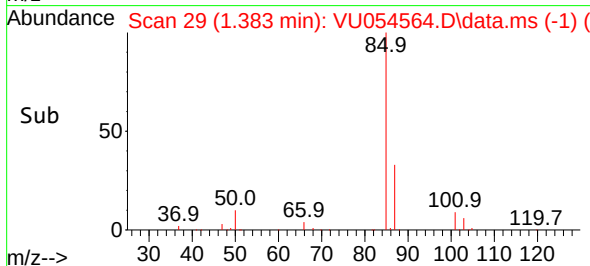
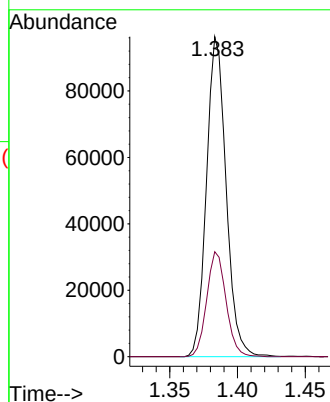
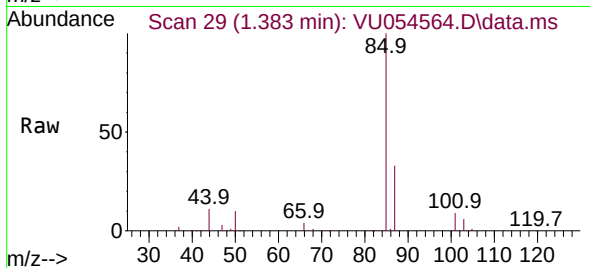




#2
Dichlorodifluoromethane
Concen: 3.963 ug/L
RT: 1.383 min Scan# 29
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

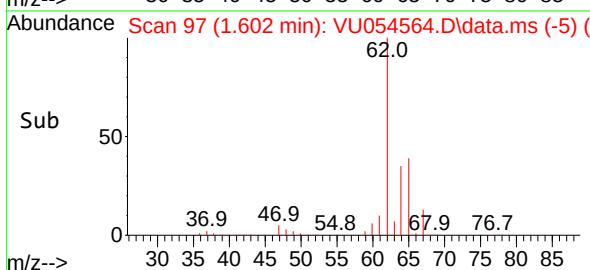
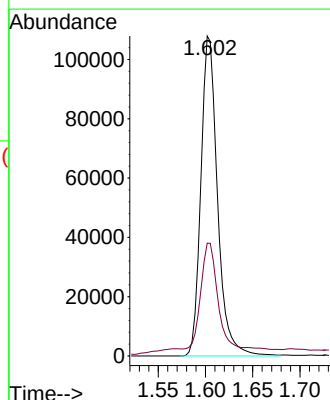
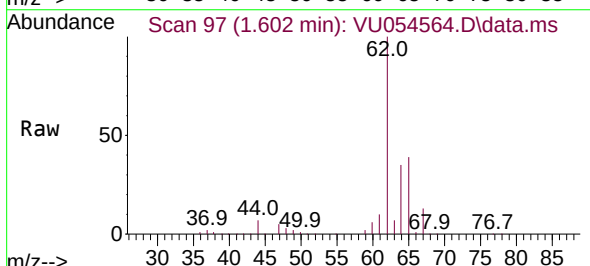
Instrument :
MSVOA_U
ClientSampleId :
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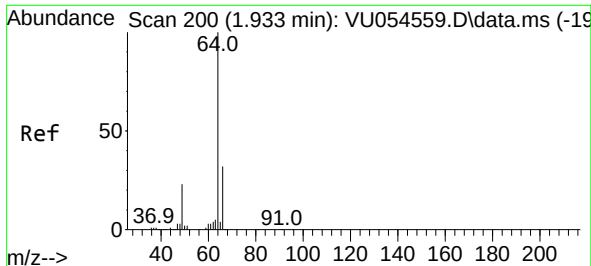
Tgt Ion: 85 Resp: 97068
Ion Ratio Lower Upper
85 100
87 32.3 25.4 38.2



#5
Vinyl chloride
Concen: 4.574 ug/L
RT: 1.602 min Scan# 97
Delta R.T. -0.003 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

Tgt Ion: 62 Resp: 132098
Ion Ratio Lower Upper
62 100
64 35.3 23.0 42.6

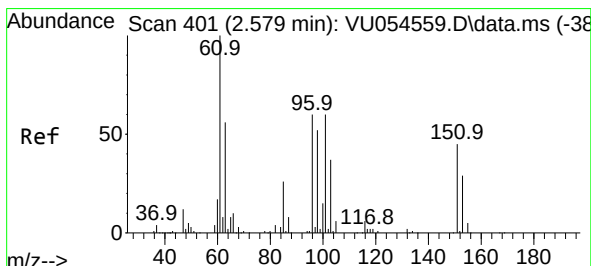
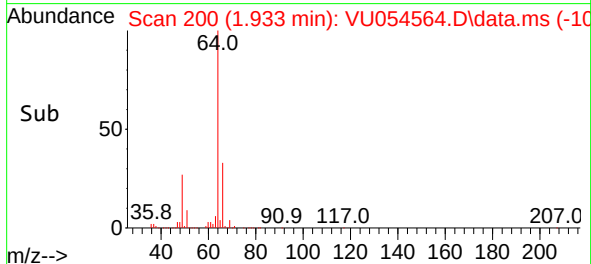
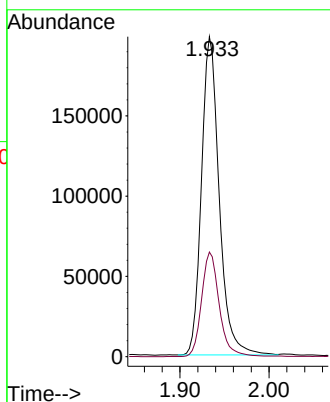
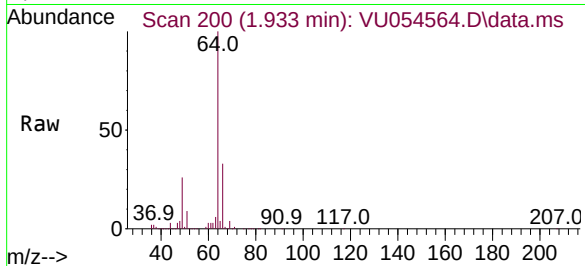




#8
Chloroethane
Concen: 15.822 ug/L
RT: 1.933 min Scan# 200
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

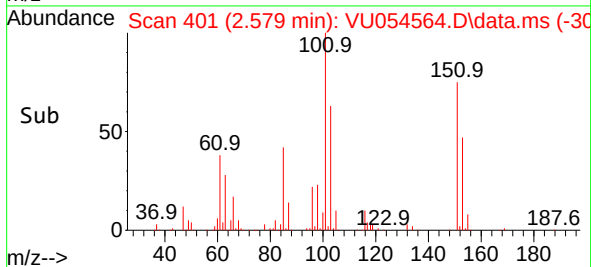
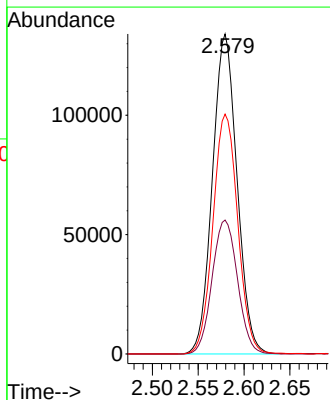
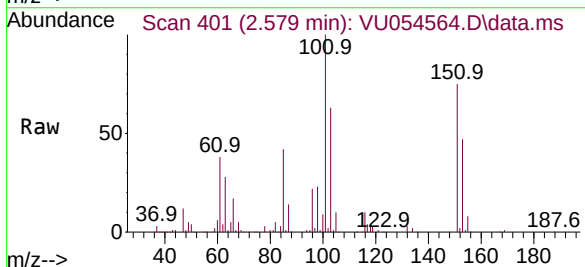
Instrument :
MSVOA_U
ClientSampleId :
DCGY7

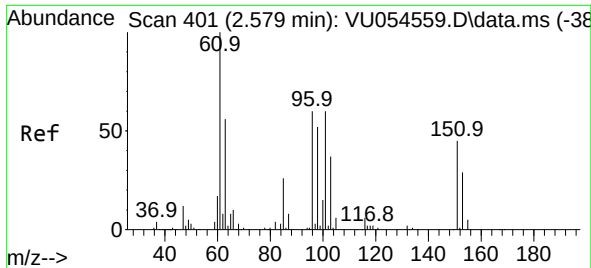
Tgt Ion: 64 Resp: 273889
Ion Ratio Lower Upper
64 100
66 32.7 22.9 42.5



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 12.058 ug/L
RT: 2.579 min Scan# 401
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

Tgt Ion:101 Resp: 250456
Ion Ratio Lower Upper
101 100
85 43.2 34.6 51.8
151 75.7 57.7 86.5

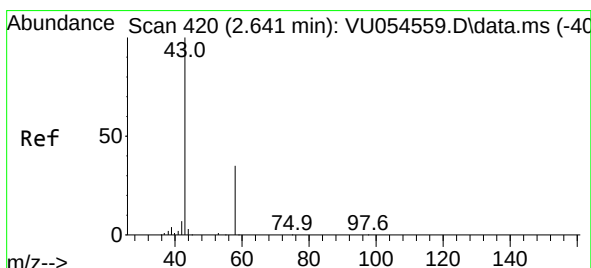
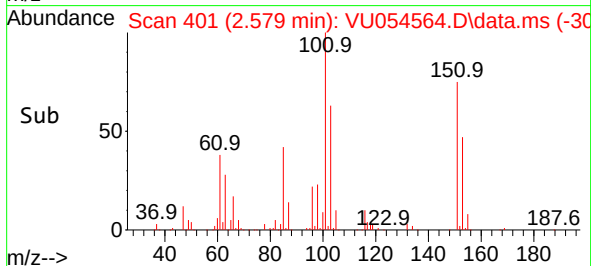
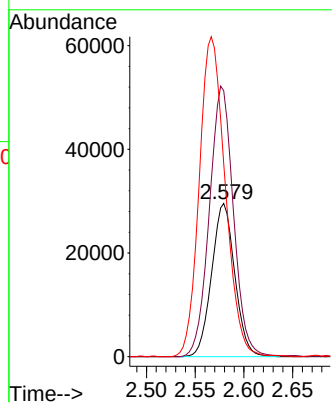
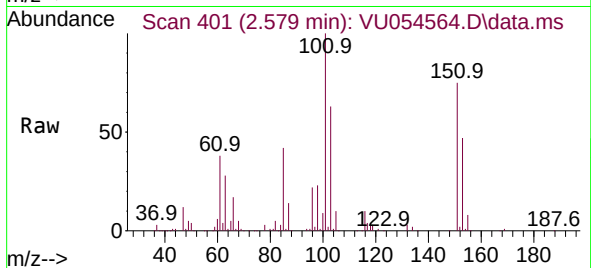




#12
1,1-Dichloroethene
Concen: 2.566 ug/L
RT: 2.579 min Scan# 401
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

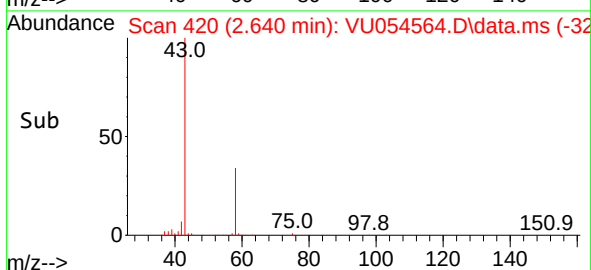
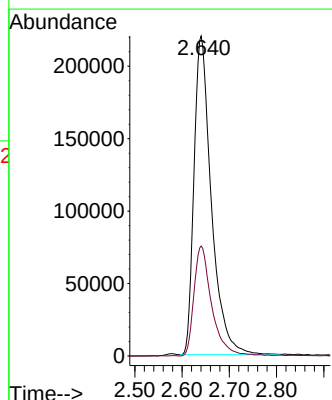
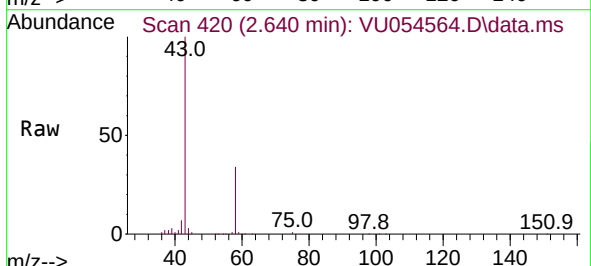
Instrument :
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ClientSampleId :
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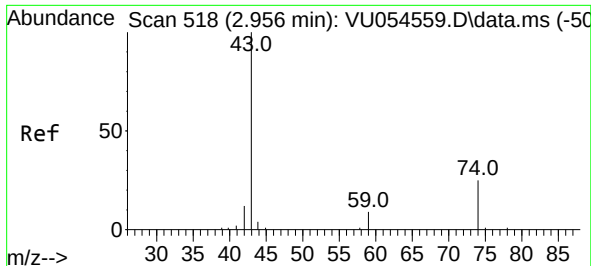
Tgt Ion: 96 Resp: 48794
Ion Ratio Lower Upper
96 100
61 173.6 119.9 222.7
63 126.0 64.3 119.3#



#13
Acetone
Concen: 126.797 ug/L
RT: 2.640 min Scan# 420
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

Tgt Ion: 43 Resp: 560737
Ion Ratio Lower Upper
43 100
58 35.1 0.0 67.2

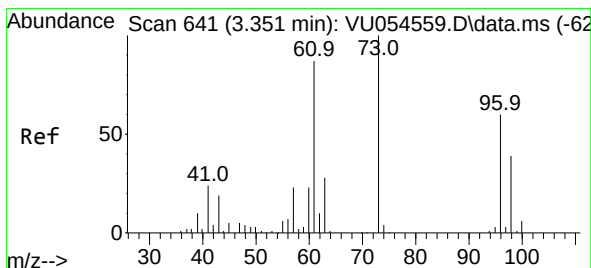
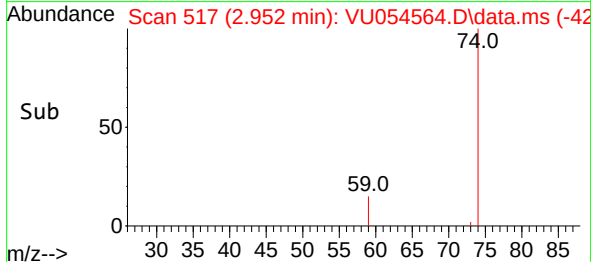
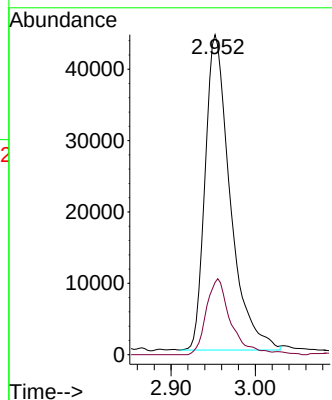
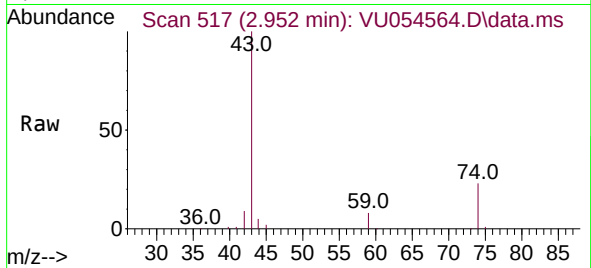




#15
Methyl Acetate
Concen: 11.145 ug/L
RT: 2.952 min Scan# 518
Delta R.T. -0.003 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

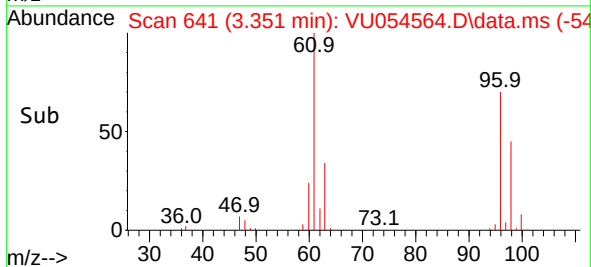
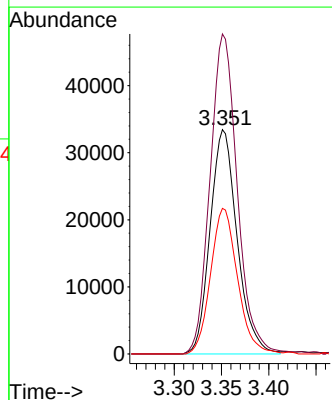
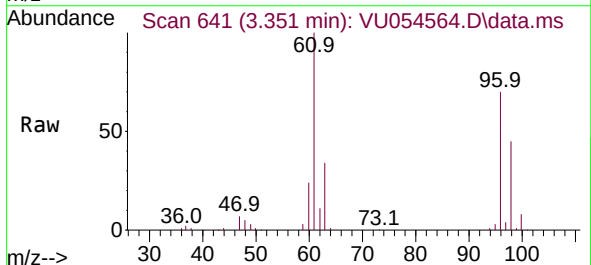
Instrument :
MSVOA_U
ClientSampleId :
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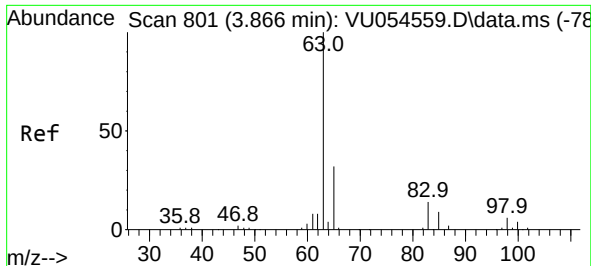
Tgt Ion: 43 Resp: 91334
Ion Ratio Lower Upper
43 100
74 23.4 19.0 28.6



#18
trans-1,2-Dichloroethene
Concen: 3.388 ug/L
RT: 3.351 min Scan# 641
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

Tgt Ion: 96 Resp: 66513
Ion Ratio Lower Upper
96 100
61 142.6 104.6 194.2
98 64.9 45.4 84.4





#19

1,1-Dichloroethane

Concen: 2.421 ug/L

RT: 3.869 min Scan# 801

Delta R.T. 0.003 min

Lab File: VU054564.D

Acq: 16 Jun 2023 11:21

Instrument :

MSVOA_U

ClientSampleId :

DCGY7

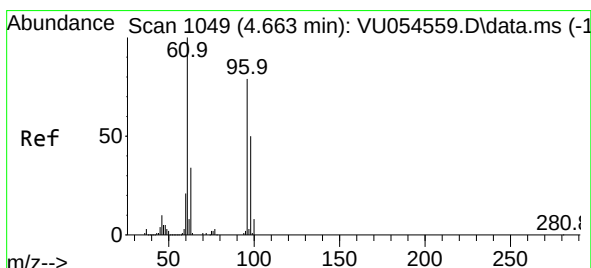
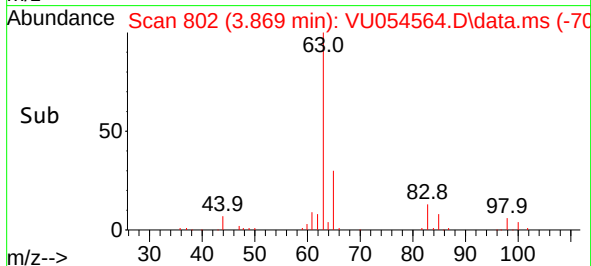
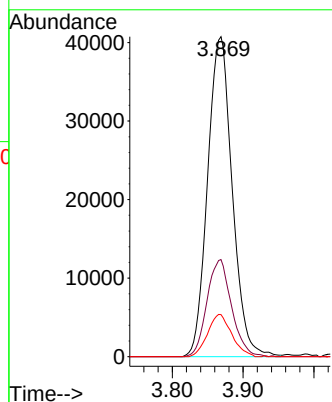
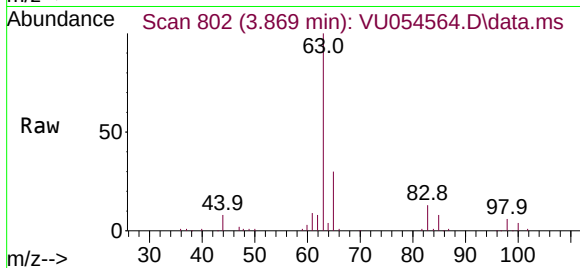
Tgt Ion: 63 Resp: 98361

Ion Ratio Lower Upper

63 100

65 30.3 22.2 41.2

83 13.2 9.0 16.6



#22

cis-1,2-Dichloroethene

Concen: 4.714 ug/L

RT: 4.660 min Scan# 1048

Delta R.T. -0.003 min

Lab File: VU054564.D

Acq: 16 Jun 2023 11:21

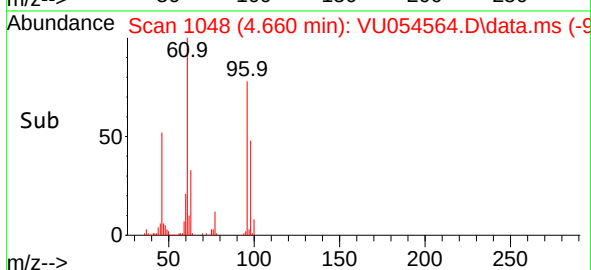
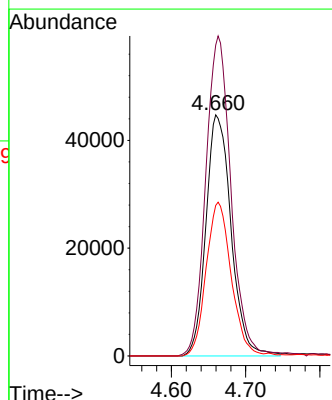
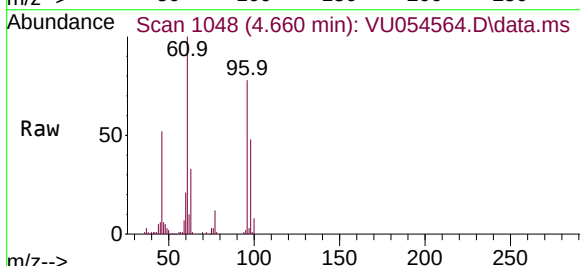
Tgt Ion: 96 Resp: 105374

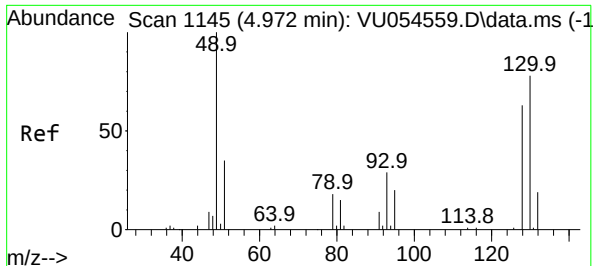
Ion Ratio Lower Upper

96 100

61 128.9 96.5 179.1

98 62.4 44.9 83.3

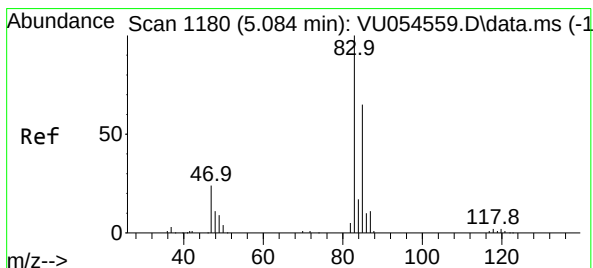
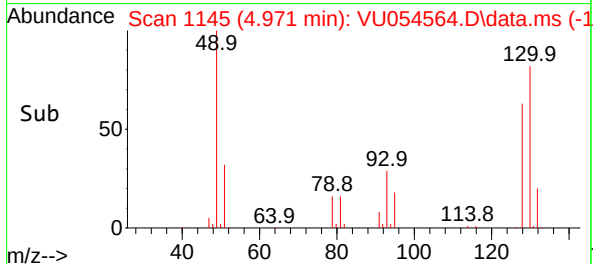
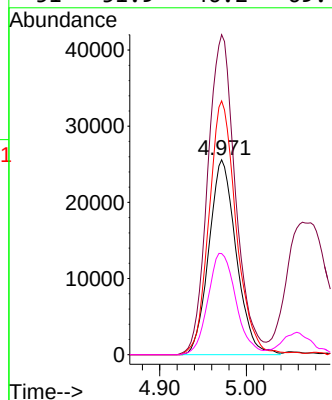
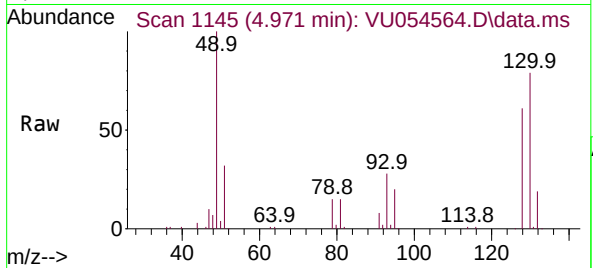




#23
Bromochloromethane
Concen: 6.027 ug/L
RT: 4.971 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

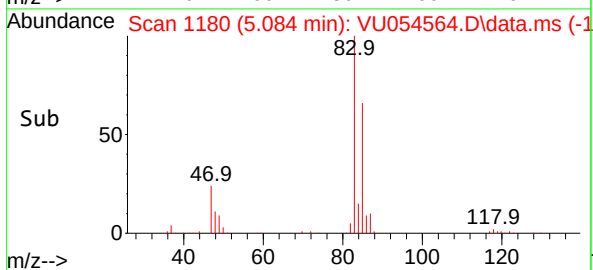
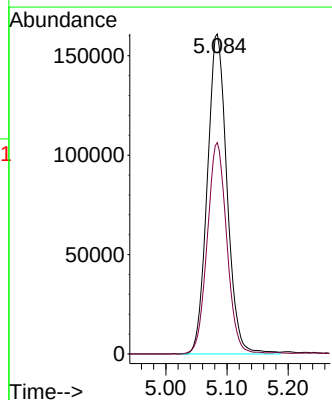
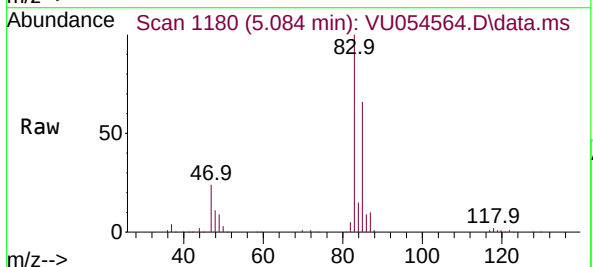
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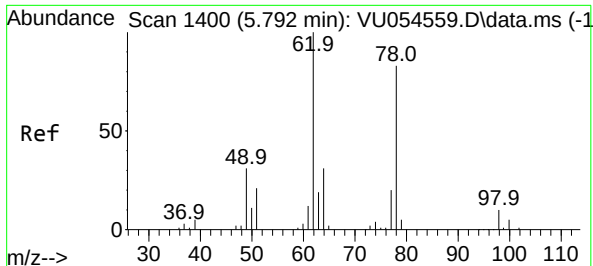
Tgt Ion:128 Resp: 56058
Ion Ratio Lower Upper
128 100
49 164.2 132.1 245.3
130 130.2 91.5 169.9
51 51.9 46.2 69.4



#25
Chloroform
Concen: 8.981 ug/L
RT: 5.084 min Scan# 1180
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

Tgt Ion: 83 Resp: 359695
Ion Ratio Lower Upper
83 100
85 66.0 44.7 82.9

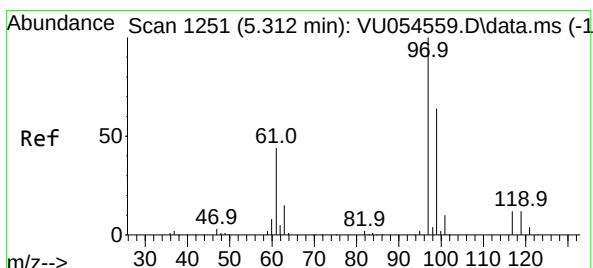
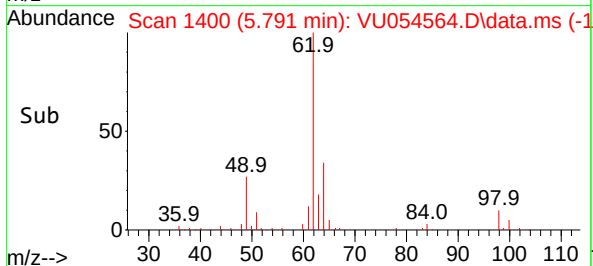
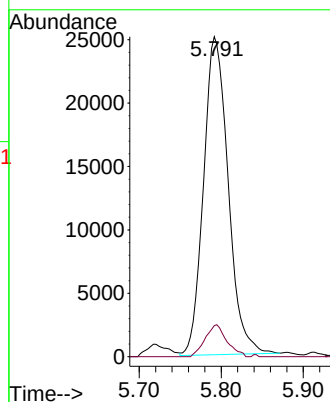
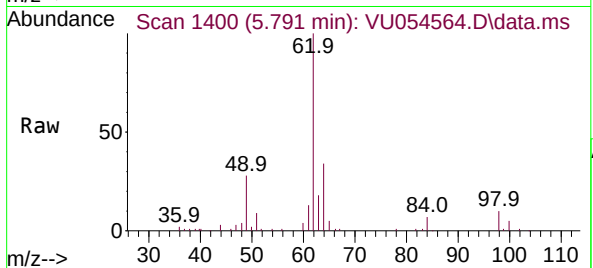




#27
1,2-Dichloroethane
Concen: 2.231 ug/L
RT: 5.791 min Scan# 1400
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

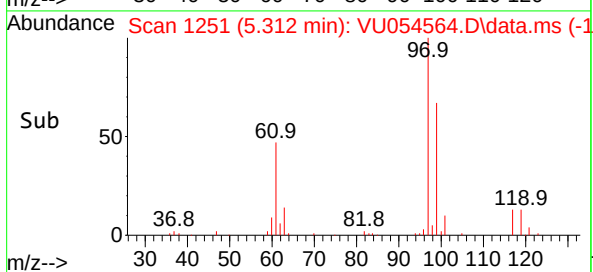
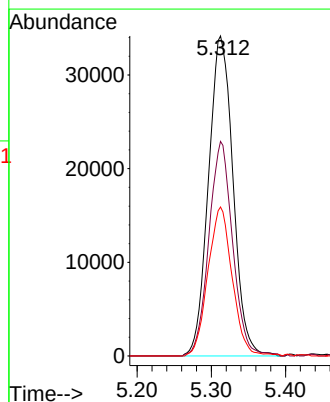
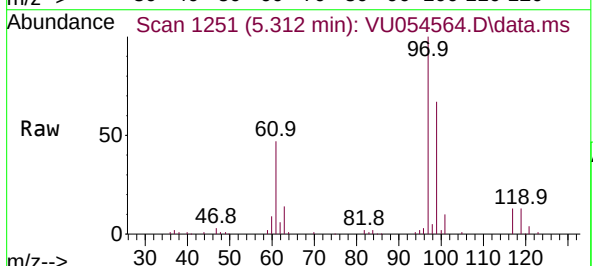
Instrument :
MSVOA_U
ClientSampleId :
DCGY7

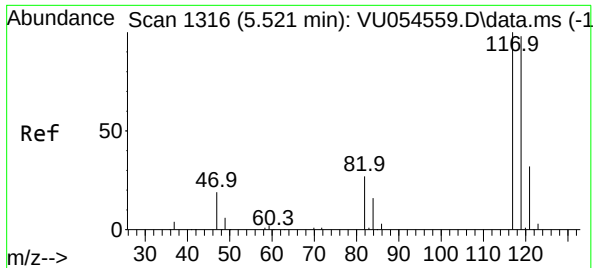
Tgt Ion: 62 Resp: 52384
Ion Ratio Lower Upper
62 100
98 9.7 7.8 11.6



#29
1,1,1-Trichloroethane
Concen: 2.286 ug/L
RT: 5.312 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

Tgt Ion: 97 Resp: 78502
Ion Ratio Lower Upper
97 100
99 65.0 50.8 76.2
61 46.0 36.1 54.1

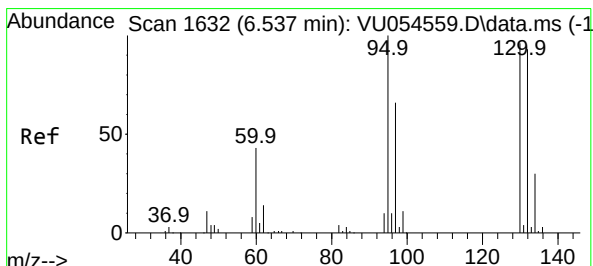
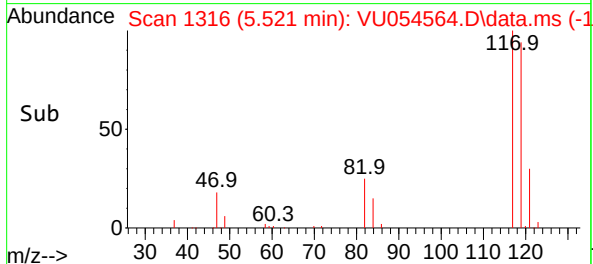
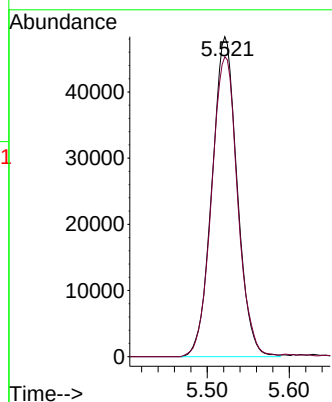
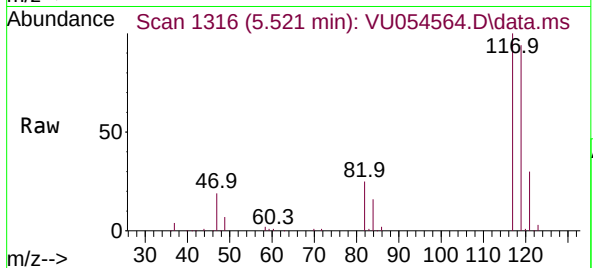




#31
Carbon tetrachloride
Concen: 3.492 ug/L
RT: 5.521 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

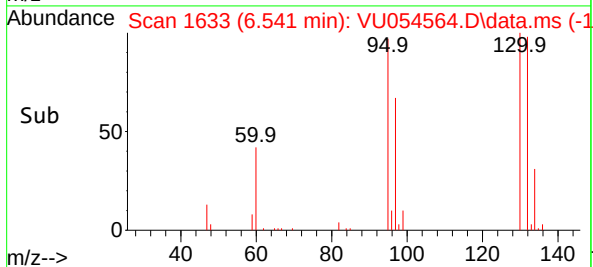
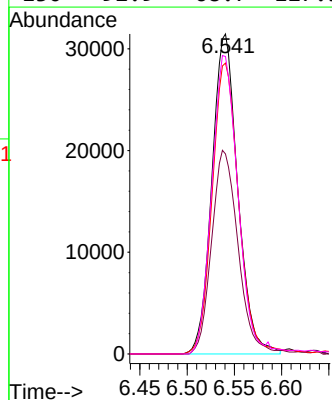
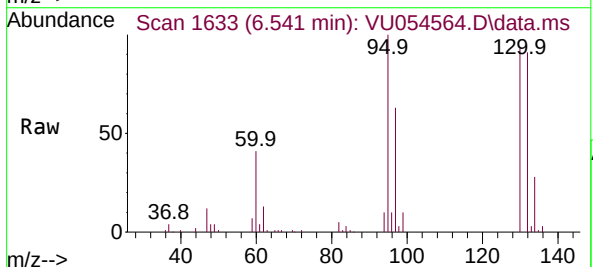
Instrument :
MSVOA_U
ClientSampleId :
DCGY7

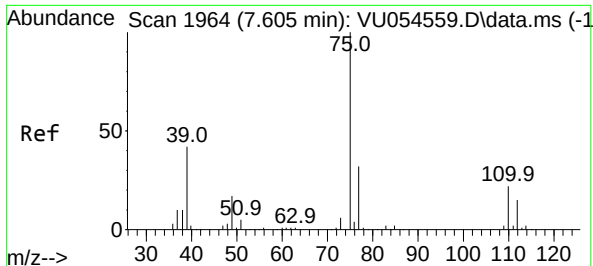
Tgt Ion:117 Resp: 103321
Ion Ratio Lower Upper
117 100
119 96.9 76.8 115.2



#34
Trichloroethene
Concen: 2.484 ug/L
RT: 6.541 min Scan# 1633
Delta R.T. 0.003 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

Tgt Ion: 95 Resp: 59761
Ion Ratio Lower Upper
95 100
97 62.5 46.8 87.0
132 90.9 68.4 127.0
130 92.9 68.7 127.5





#39

cis-1,3-Dichloropropene

Concen: 5.049 ug/L

RT: 7.602 min Scan# 1964

Delta R.T. -0.003 min

Lab File: VU054564.D

Acq: 16 Jun 2023 11:21

Instrument :

MSVOA_U

ClientSampleId :

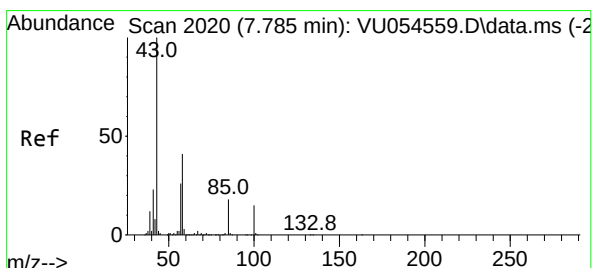
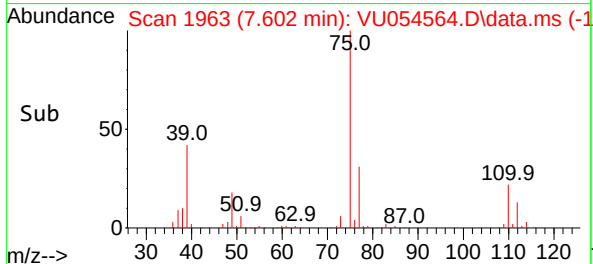
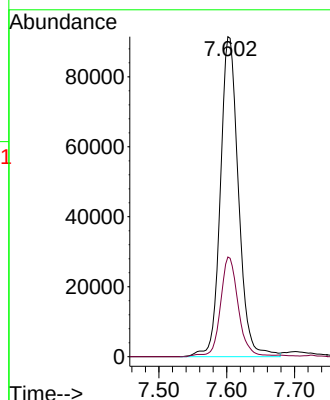
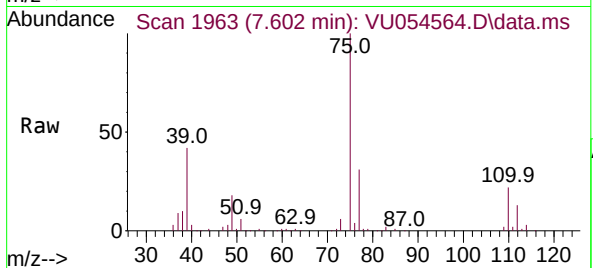
DCGY7

Tgt Ion: 75 Resp: 169592

Ion Ratio Lower Upper

75 100

77 31.1 22.3 41.5



#40

4-Methyl-2-pentanone

Concen: 62.172 ug/L

RT: 7.785 min Scan# 2020

Delta R.T. -0.000 min

Lab File: VU054564.D

Acq: 16 Jun 2023 11:21

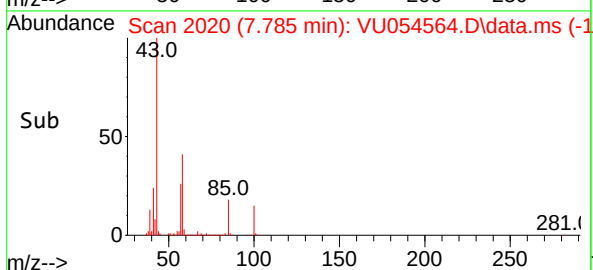
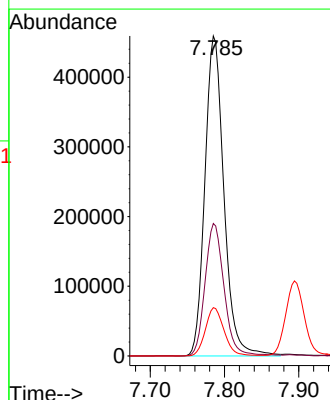
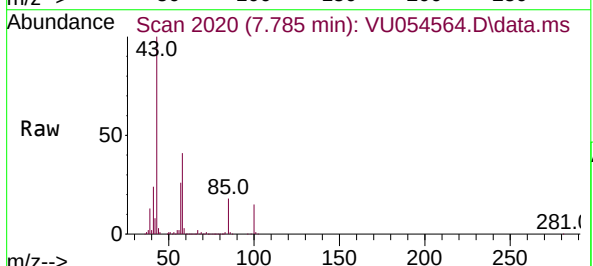
Tgt Ion: 43 Resp: 816306

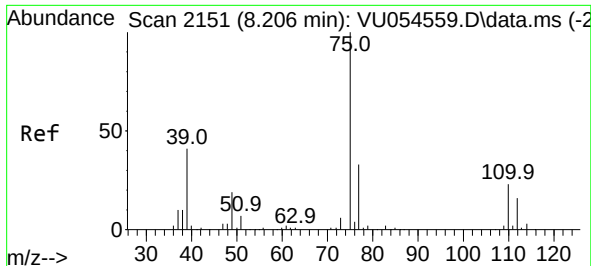
Ion Ratio Lower Upper

43 100

58 41.5 32.4 48.6

100 14.9 11.4 17.2

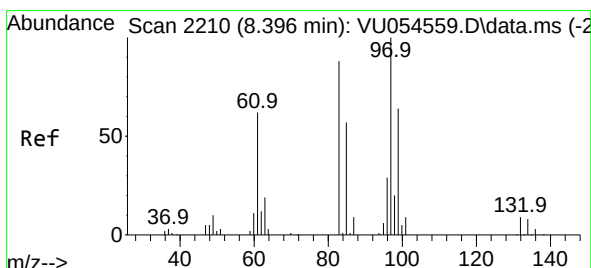
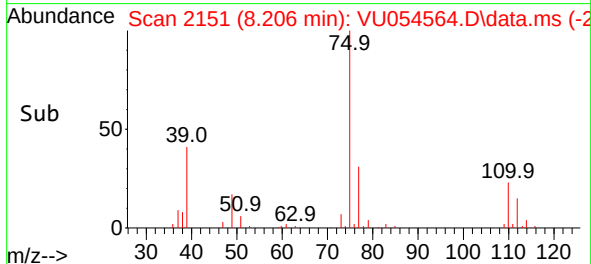
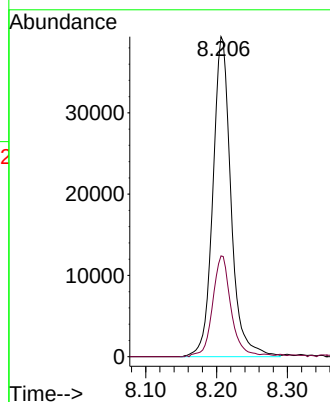
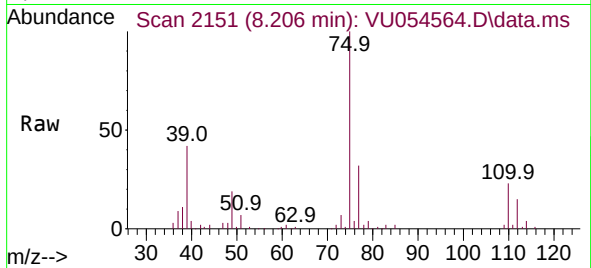




#44
trans-1,3-Dichloropropene
Concen: 2.562 ug/L
RT: 8.206 min Scan# 2151
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

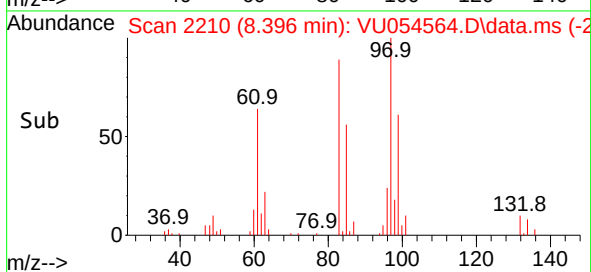
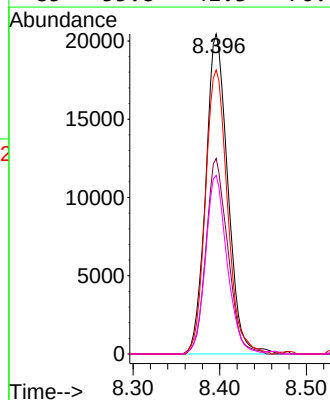
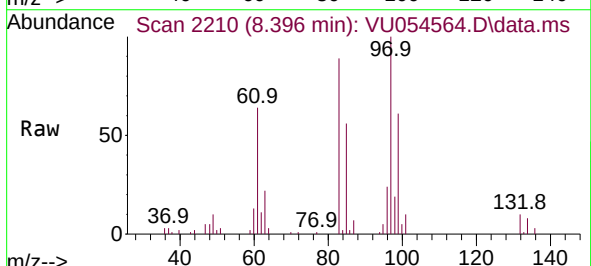
Instrument :
MSVOA_U
ClientSampleId :
DCGY7

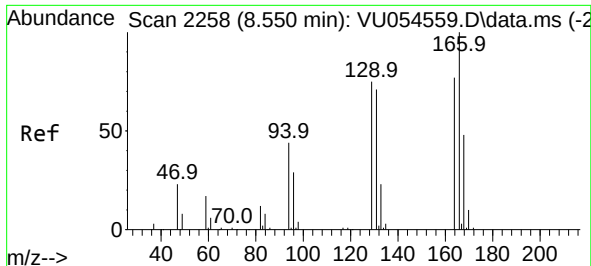
Tgt Ion: 75 Resp: 69852
Ion Ratio Lower Upper
75 100
77 31.5 21.3 39.6



#45
1,1,2-Trichloroethane
Concen: 2.315 ug/L
RT: 8.396 min Scan# 2210
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

Tgt Ion: 97 Resp: 36229
Ion Ratio Lower Upper
97 100
99 61.1 43.0 80.0
83 88.7 63.8 118.6
85 55.8 41.3 76.7

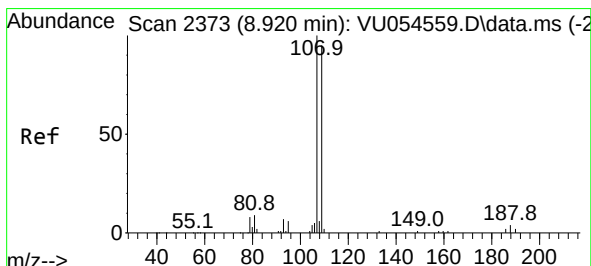
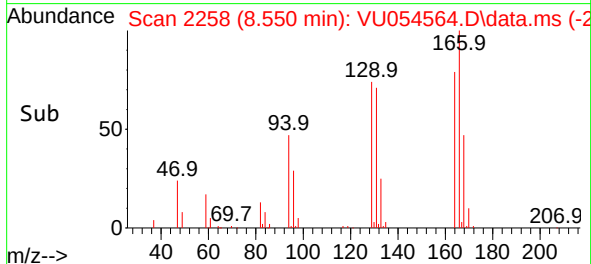
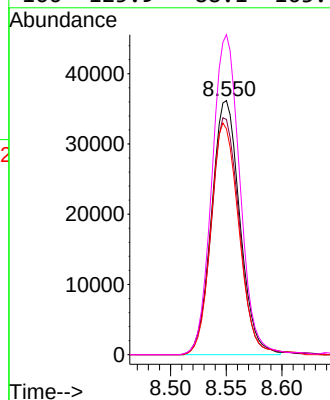
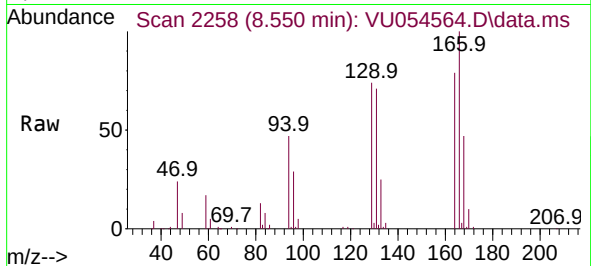




#47
Tetrachloroethene
Concen: 3.467 ug/L
RT: 8.550 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

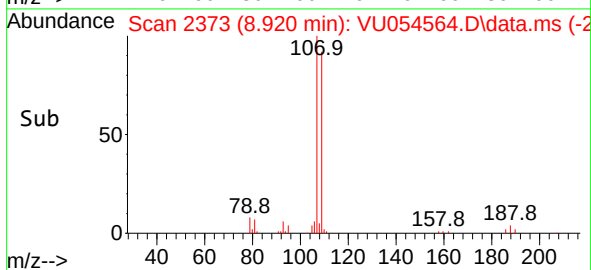
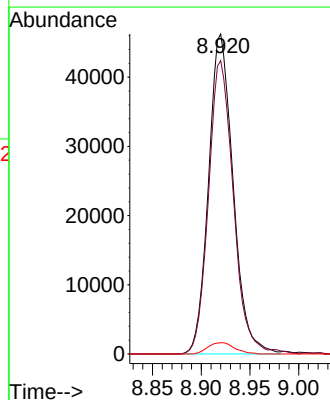
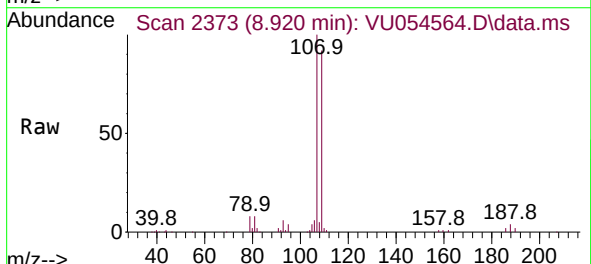
Instrument :
MSVOA_U
ClientSampleId :
DCGY7

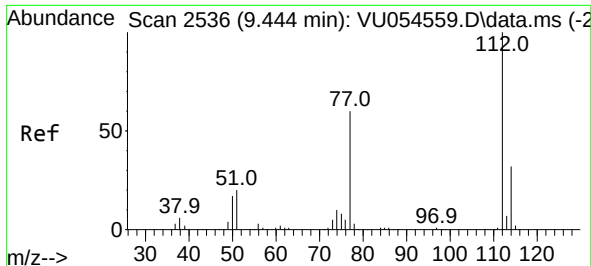
Tgt Ion:164	Resp:	63854
Ion	Ratio	Lower Upper
164	100	
129	92.6	67.7 125.7
131	88.8	64.6 120.0
166	125.9	88.1 163.7



#50
1,2-Dibromoethane
Concen: 5.660 ug/L
RT: 8.920 min Scan# 2373
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

Tgt Ion:107	Resp:	81340
Ion	Ratio	Lower Upper
107	100	
109	91.6	66.6 123.6
188	3.5	3.1 4.7

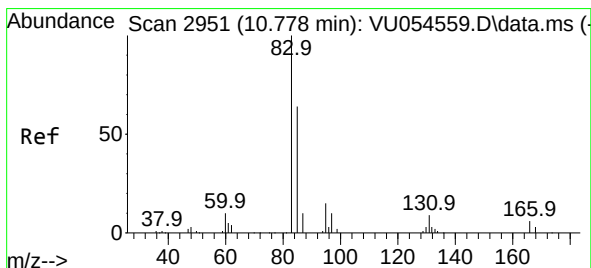
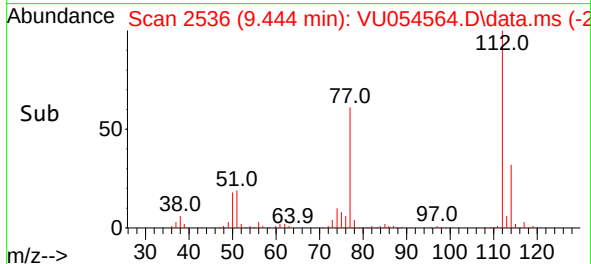
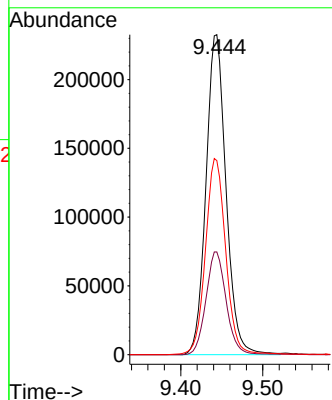
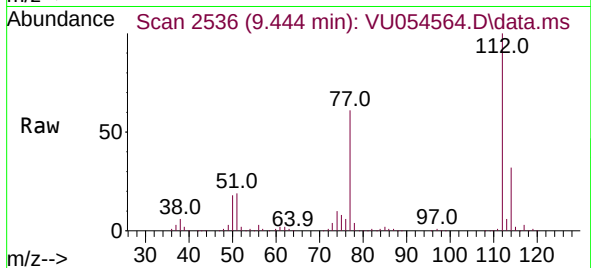




#51
Chlorobenzene
Concen: 6.757 ug/L
RT: 9.444 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

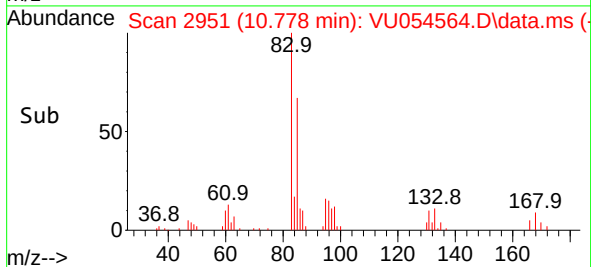
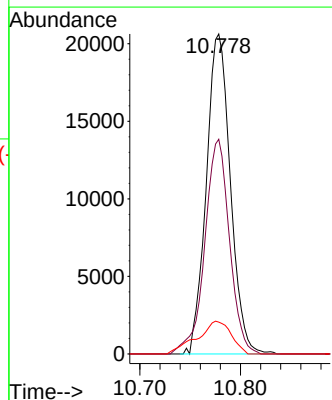
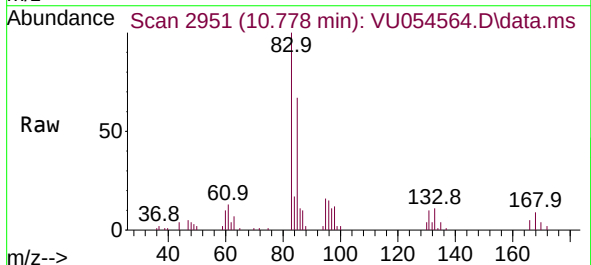
Instrument :
MSVOA_U
ClientSampleId :
DCGY7

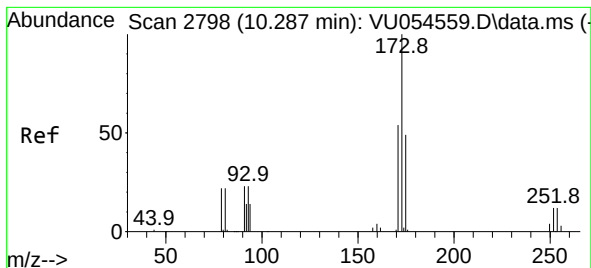
Tgt Ion:112 Resp: 394728
Ion Ratio Lower Upper
112 100
114 32.1 22.7 42.1
77 60.7 49.8 74.8



#57
1,1,2,2-Tetrachloroethane
Concen: 1.725 ug/L
RT: 10.778 min Scan# 2951
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

Tgt Ion: 83 Resp: 34302
Ion Ratio Lower Upper
83 100
85 67.1 44.2 82.2
131 9.9 7.0 10.6





#59

Bromoform

Concen: 3.505 ug/L

RT: 10.286 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU054564.D

Acq: 16 Jun 2023 11:21

Instrument :

MSVOA_U

ClientSampleId :

DCGY7

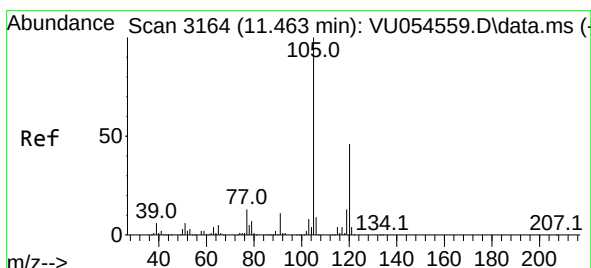
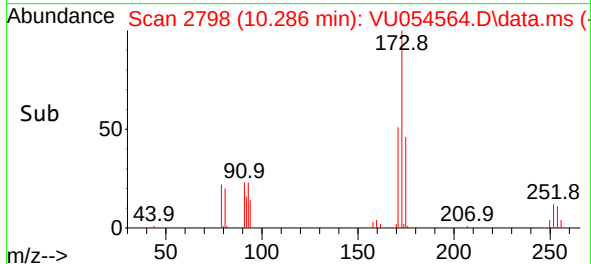
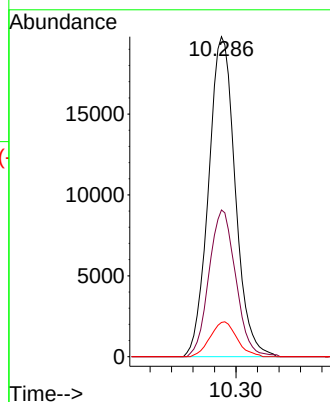
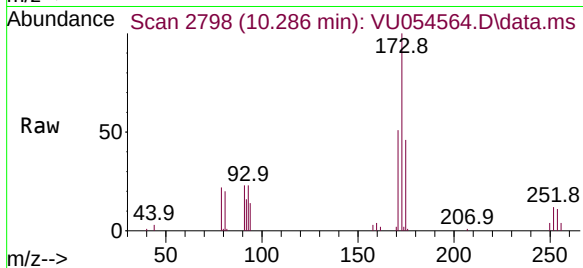
Tgt Ion:173 Resp: 34053

Ion Ratio Lower Upper

173 100

175 45.9 39.4 59.0

254 10.9 8.6 12.8



#63

1,2,4-Trimethylbenzene

Concen: 4.520 ug/L

RT: 11.463 min Scan# 3164

Delta R.T. -0.000 min

Lab File: VU054564.D

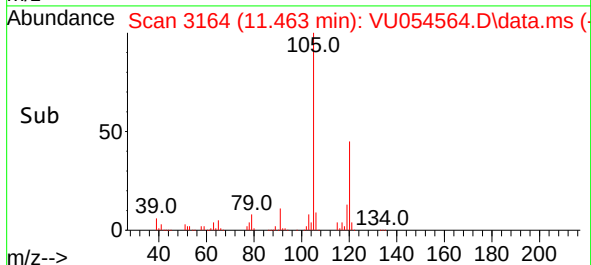
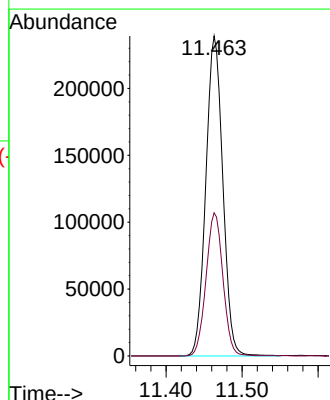
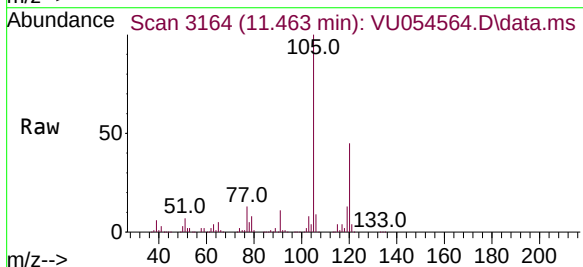
Acq: 16 Jun 2023 11:21

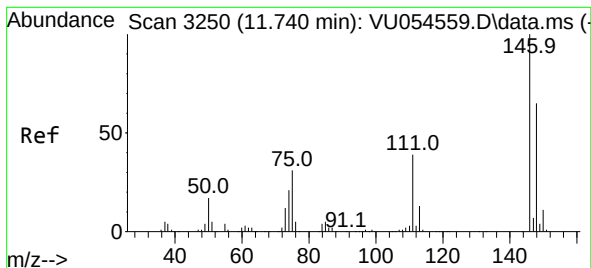
Tgt Ion:105 Resp: 370851

Ion Ratio Lower Upper

105 100

120 44.6 35.4 53.0





#64

1,3-Dichlorobenzene

Concen: 3.478 ug/L

RT: 11.743 min Scan# 3250

Delta R.T. 0.003 min

Lab File: VU054564.D

Acq: 16 Jun 2023 11:21

Instrument :

MSVOA_U

ClientSampleId :

DCGY7

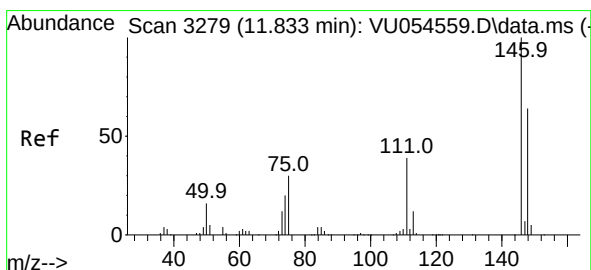
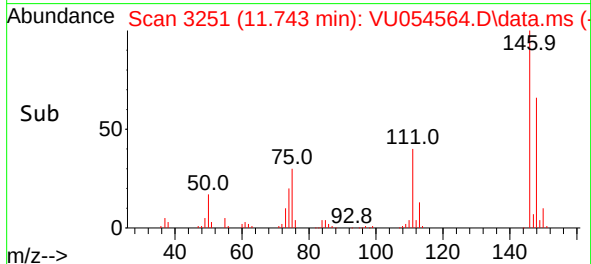
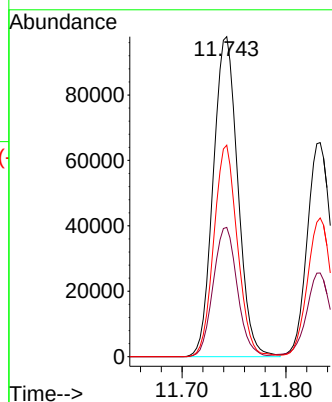
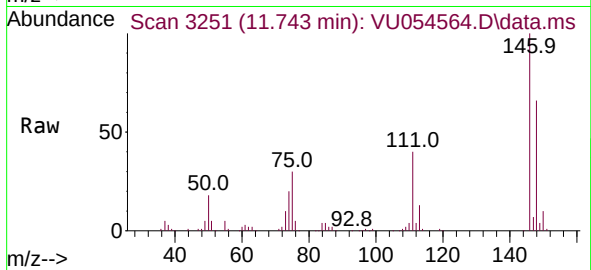
Tgt Ion:146 Resp: 160951

Ion Ratio Lower Upper

146 100

111 40.4 28.9 53.7

148 66.1 44.0 81.8



#65

1,4-Dichlorobenzene

Concen: 2.313 ug/L

RT: 11.833 min Scan# 3279

Delta R.T. -0.000 min

Lab File: VU054564.D

Acq: 16 Jun 2023 11:21

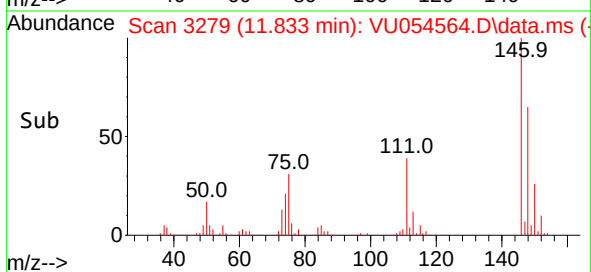
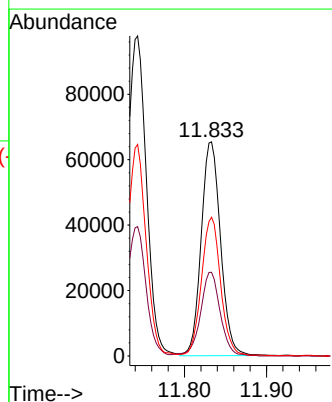
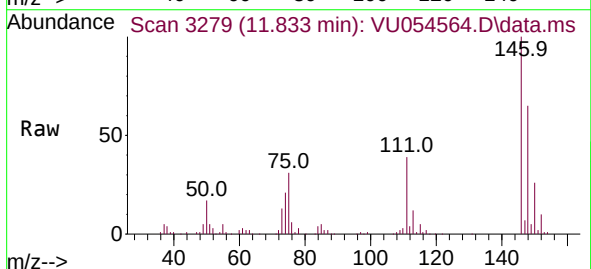
Tgt Ion:146 Resp: 107437

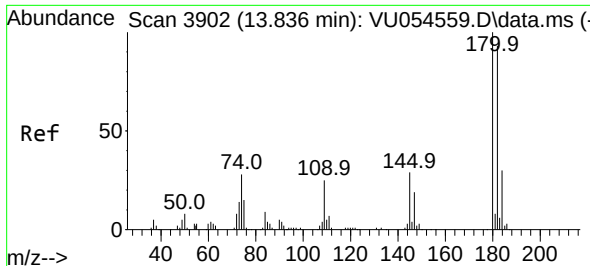
Ion Ratio Lower Upper

146 100

111 39.1 28.0 52.0

148 64.8 44.7 83.1

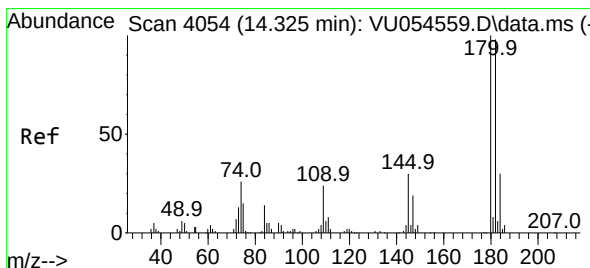
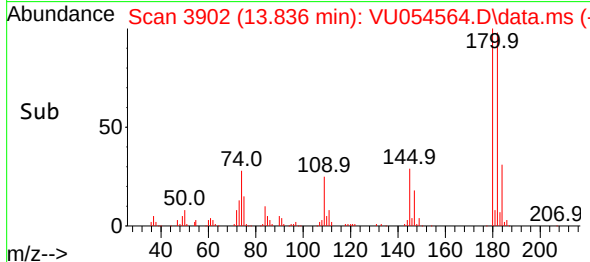
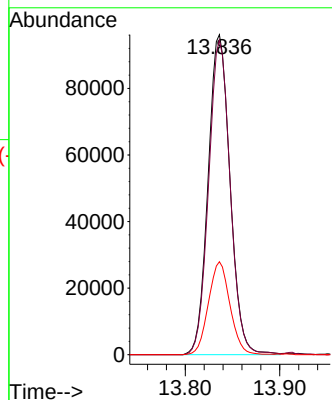
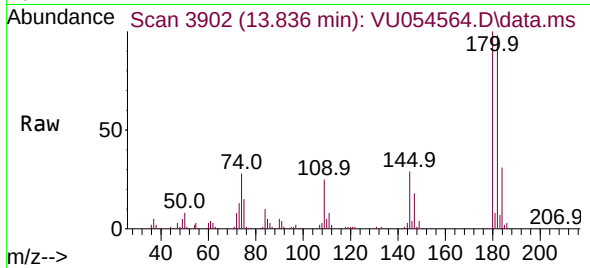




#70
1,2,4-trichlorobenzene
Concen: 5.365 ug/L
RT: 13.836 min Scan# 3902
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

Instrument :
MSVOA_U
ClientSampleId :
DCGY7

Tgt Ion:180 Resp: 154895
Ion Ratio Lower Upper
180 100
182 96.7 76.6 114.8
145 28.6 24.0 36.0



#72
1,2,3-Trichlorobenzene
Concen: 3.380 ug/L
RT: 14.325 min Scan# 4054
Delta R.T. -0.000 min
Lab File: VU054564.D
Acq: 16 Jun 2023 11:21

Tgt Ion:180 Resp: 83845
Ion Ratio Lower Upper
180 100
182 95.2 75.4 113.2
145 30.1 26.0 39.0

