

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U062123\
 Data File : VU054638.D
 Acq On : 21 Jun 2023 13:05
 Operator : MD/SY
 Sample : 03326-11
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GCA39

Quant Time: Jun 22 02:44:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR060723WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Jun 22 02:42:14 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	326730	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	326211	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	164846	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	118897	5.718	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	114.400%
7) Chloroethane-d5	1.911	69	92139	4.733	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.600%
11) 1,1-Dichloroethene-d2	2.567	65	45744	4.926	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	98.600%
20) 2-Butanone-d5	4.679	46	72293	12.366	ug/L	0.05
Spiked Amount	50.000	Range	40 - 130	Recovery	=	24.740%#
24) Chloroform-d	5.062	84	190777	4.389	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.800%
26) 1,2-Dichloroethane-d4	5.701	65	92391	4.361	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.200%
32) Benzene-d6	5.727	84	372328	4.106	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.200%
36) 1,2-Dichloropropane-d6	6.705	67	133843	4.420	ug/L	0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.400%
41) Toluene-d8	7.894	98	334009	4.150	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.000%
43) trans-1,3-Dichloroprop...	8.177	79	48098	4.567	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.400%
46) 2-Hexanone-d5	8.631	63	191458	43.334	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	86.660%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	93690	4.149	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	83.000%
66) 1,2-Dichlorobenzene-d4	12.187	152	119245	4.289	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	85.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	732550	20.350	ug/L	98
12) 1,1-Dichloroethene	2.579	96	666469	28.124	ug/L	88
15) Methyl Acetate	3.049	43	9518	0.932	ug/L #	52
17) Methyl tert-butyl Ether	3.361	73	12218	0.209	ug/L #	1
18) trans-1,2-Dichloroethene	3.354	96	1173161	47.947	ug/L	96
19) 1,1-Dichloroethane	3.872	63	123532	2.440	ug/L	98
25) Chloroform	5.084	83	369022	7.392	ug/L	98
27) 1,2-Dichloroethane	5.791	62	26958	0.921	ug/L	96
29) 1,1,1-Trichloroethane	5.316	97	11999	0.271	ug/L #	2
31) Carbon tetrachloride	5.521	117	12962	0.340	ug/L	99
33) Benzene	5.775	78	196238	1.674	ug/L	100
35) Methylcyclohexane	6.589	83	2192715	46.793	ug/L #	1
37) 1,2-Dichloropropane	6.582	63	843524	26.610	ug/L #	1
38) Bromodichloromethane	7.052	83	5999	0.167	ug/L #	26
40) 4-Methyl-2-pentanone	7.788	43	44397	2.625	ug/L #	87
42) Toluene	7.965	91	94521	0.783	ug/L	98
45) 1,1,2-Trichloroethane	8.396	97	160827	7.975	ug/L	99
47) Tetrachloroethene	8.550	164	29446	1.241	ug/L	92
48) 2-Hexanone	8.685	43	8407	0.667	ug/L #	45

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

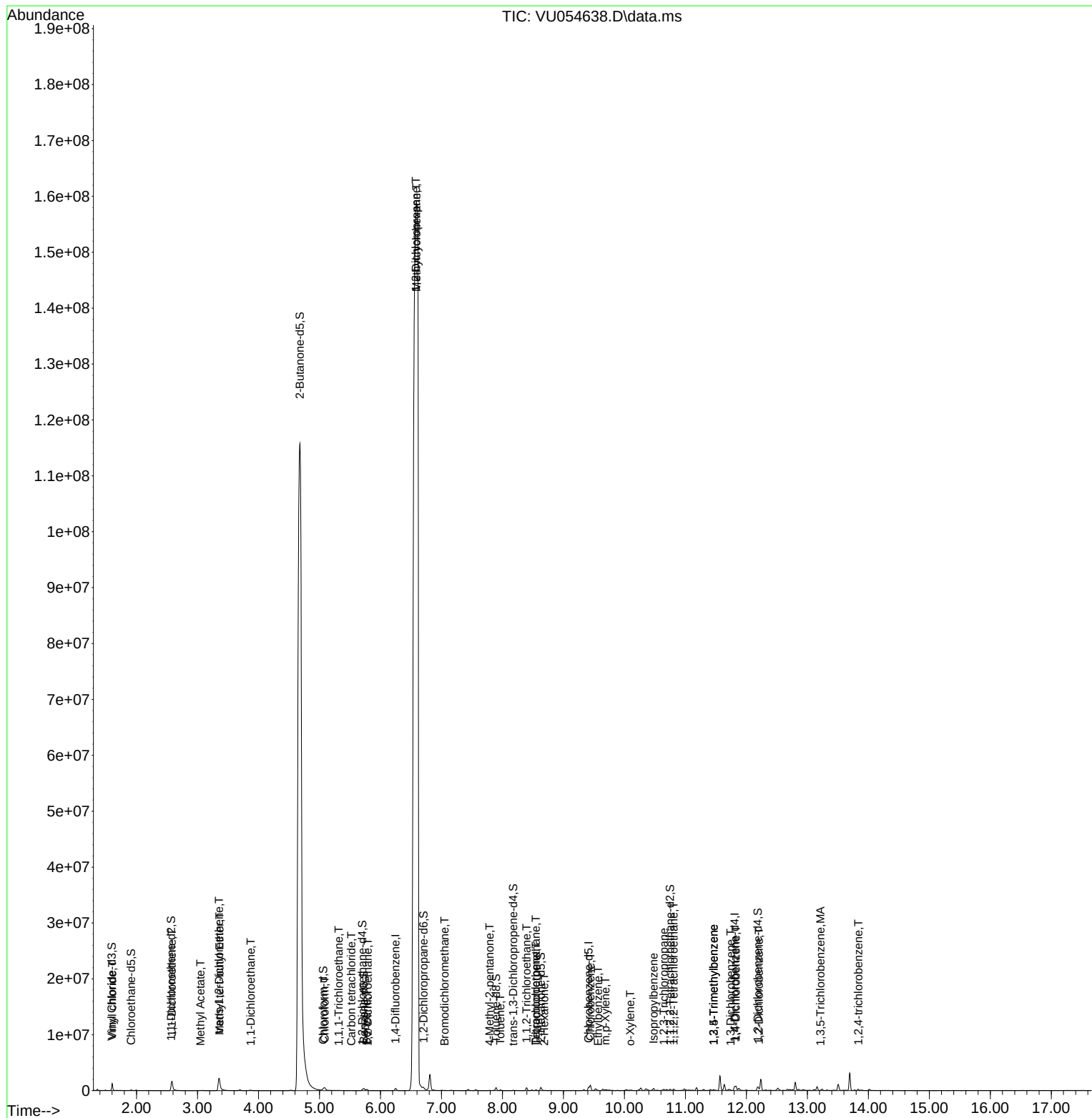
49) Dibromochloromethane	8.550	129	28783	1.359	ug/L #	11
51) Chlorobenzene	9.444	112	474237	6.301	ug/L	97
52) Ethylbenzene	9.569	91	20438	0.155	ug/L	94
53) m,p-Xylene	9.688	106	20070	0.414	ug/L	89
54) o-Xylene	10.097	106	21664	0.462	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.807	83	16253	0.635	ug/L #	37
60) Isopropylbenzene	10.479	105	224209	1.859	ug/L	99
61) 1,2,3-Trichloropropane	10.647	75	4049	0.243	ug/L #	49
62) 1,3,5-Trimethylbenzene	11.463	105	54023	0.549	ug/L	100
63) 1,2,4-Trimethylbenzene	11.463	105	54023	0.541	ug/L	95
64) 1,3-Dichlorobenzene	11.743	146	16153	0.287	ug/L #	87
65) 1,4-Dichlorobenzene	11.830	146	261125	4.616	ug/L	99
67) 1,2-Dichlorobenzene	12.206	146	51165	0.987	ug/L	96
69) 1,3,5-Trichlorobenzene	13.216	180	9591	0.226	ug/L	98
70) 1,2,4-trichlorobenzene	13.836	180	54467	1.549	ug/L #	92

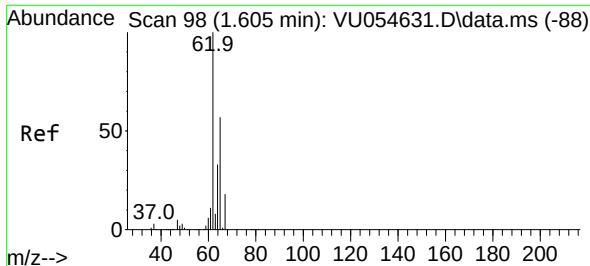
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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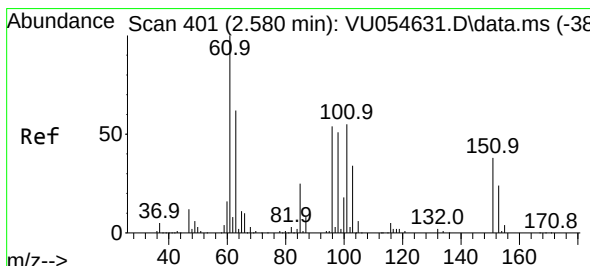
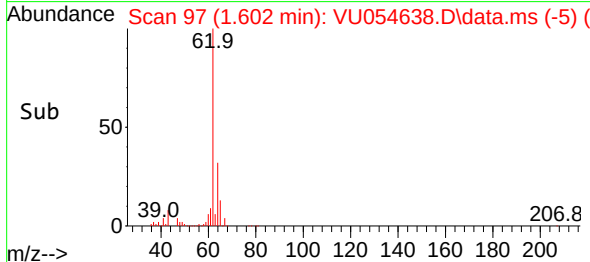
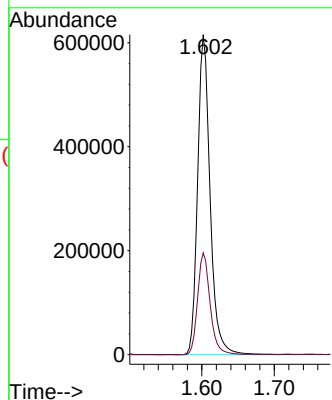
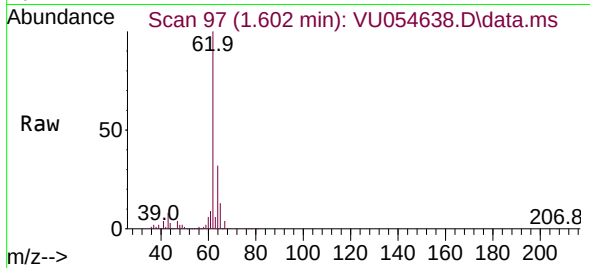




#5
 Vinyl chloride
 Concen: 20.350 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. -0.003 min
 Lab File: VU054638.D
 Acq: 21 Jun 2023 13:05

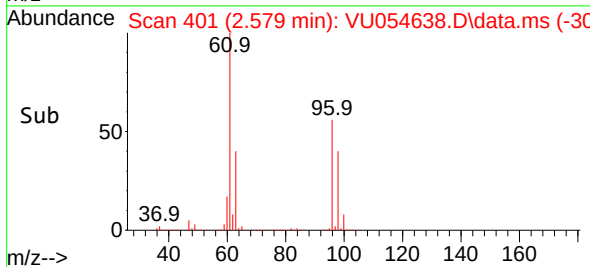
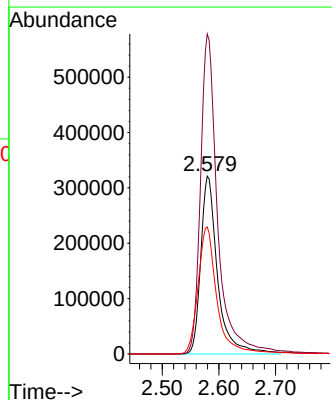
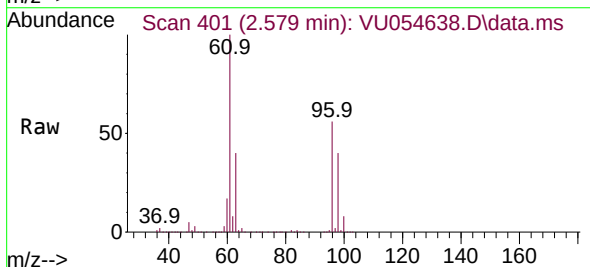
Instrument :
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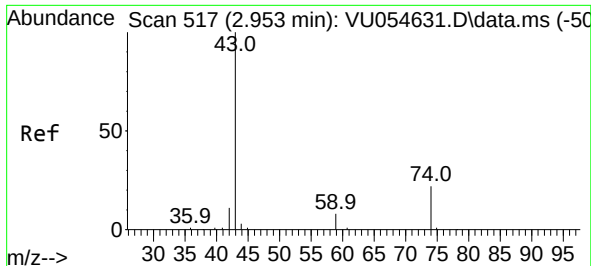
Tgt Ion: 62 Resp: 732550
 Ion Ratio Lower Upper
 62 100
 64 31.8 23.0 42.6



#12
 1,1-Dichloroethene
 Concen: 28.124 ug/L
 RT: 2.579 min Scan# 401
 Delta R.T. -0.000 min
 Lab File: VU054638.D
 Acq: 21 Jun 2023 13:05

Tgt Ion: 96 Resp: 666469
 Ion Ratio Lower Upper
 96 100
 61 180.1 119.9 222.7
 63 71.5 64.3 119.3

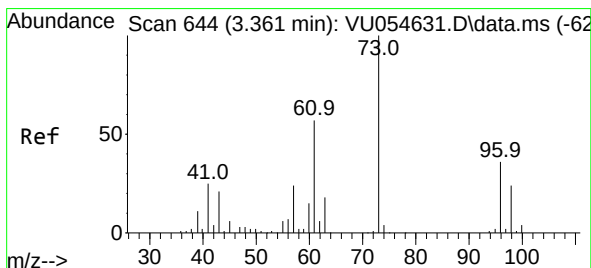
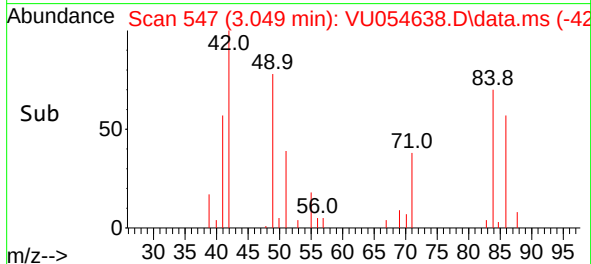
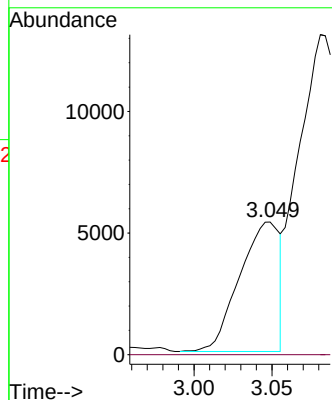
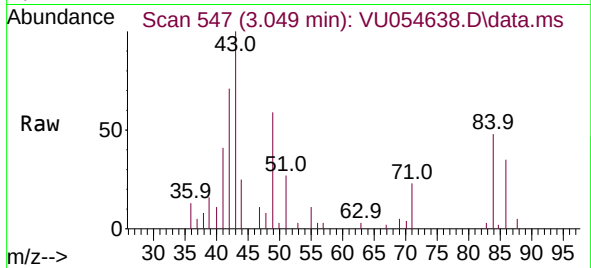




#15
Methyl Acetate
Concen: 0.932 ug/L
RT: 3.049 min Scan# 547
Delta R.T. 0.096 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

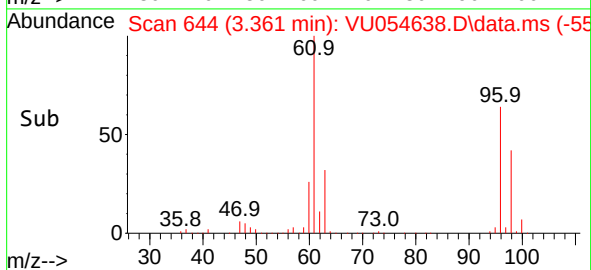
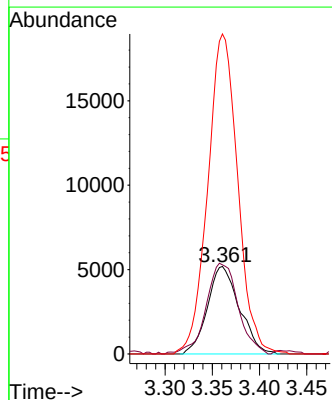
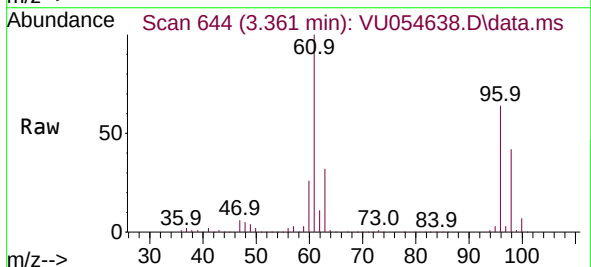
Instrument :
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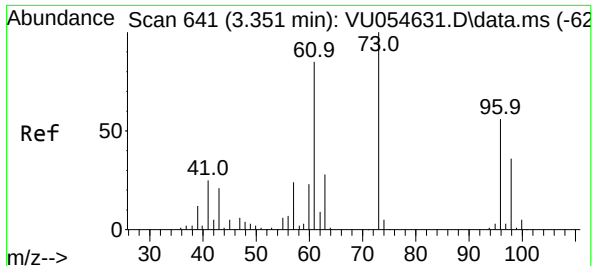
Tgt Ion: 43 Resp: 9518
Ion Ratio Lower Upper
43 100
74 0.0 19.0 28.6#



#17
Methyl tert-butyl Ether
Concen: 0.209 ug/L
RT: 3.361 min Scan# 644
Delta R.T. -0.000 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

Tgt Ion: 73 Resp: 12218
Ion Ratio Lower Upper
73 100
43 103.5 15.7 23.5#
57 341.6 18.6 28.0#

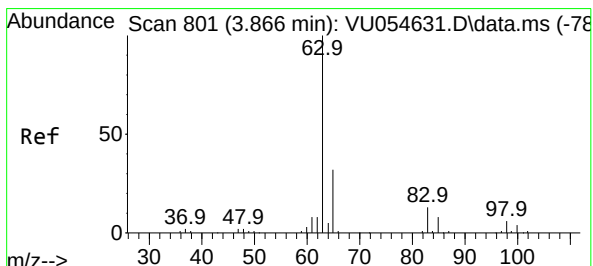
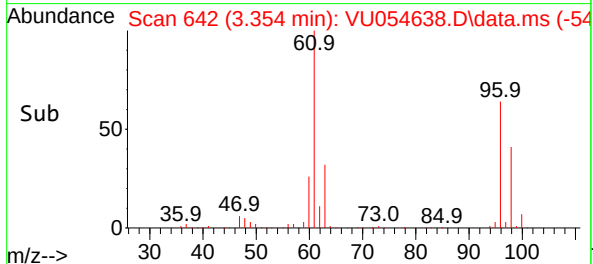
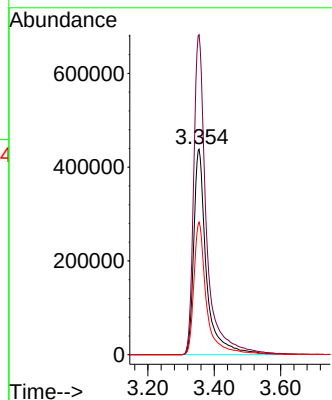
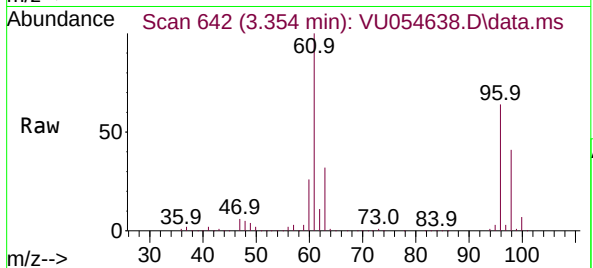




#18
trans-1,2-Dichloroethene
Concen: 47.947 ug/L
RT: 3.354 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

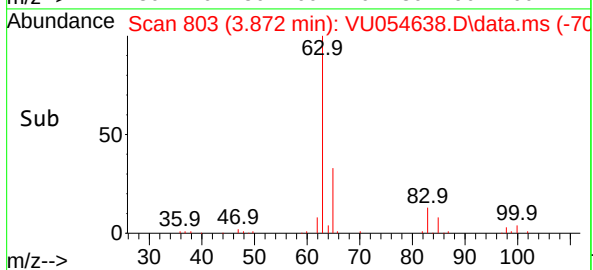
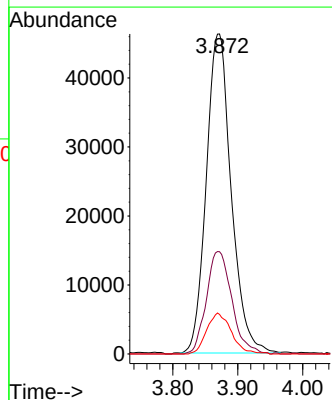
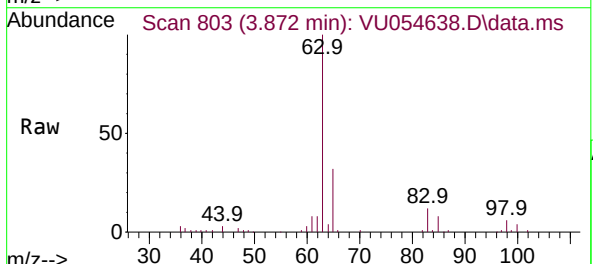
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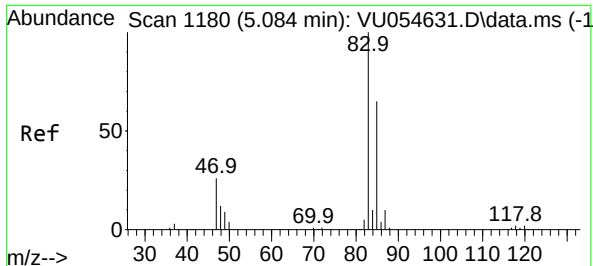
Tgt Ion: 96 Resp: 1173161
Ion Ratio Lower Upper
96 100
61 155.7 104.6 194.2
98 64.4 45.4 84.4



#19
1,1-Dichloroethane
Concen: 2.440 ug/L
RT: 3.872 min Scan# 803
Delta R.T. 0.006 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

Tgt Ion: 63 Resp: 123532
Ion Ratio Lower Upper
63 100
65 32.8 22.2 41.2
83 12.4 9.0 16.6

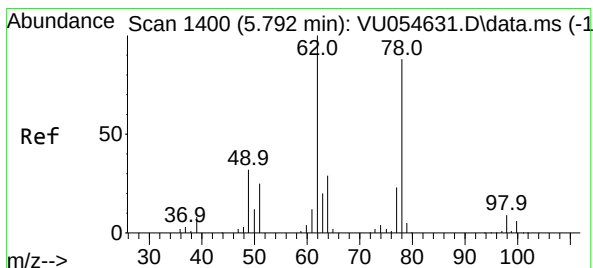
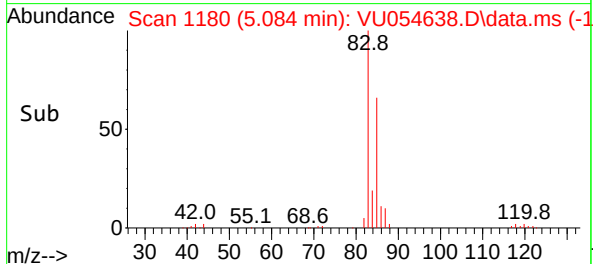
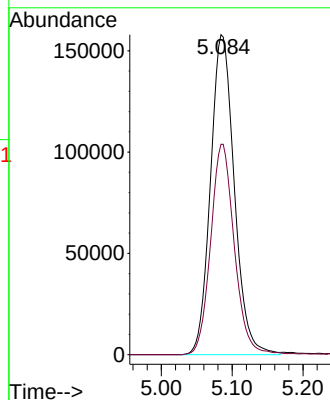
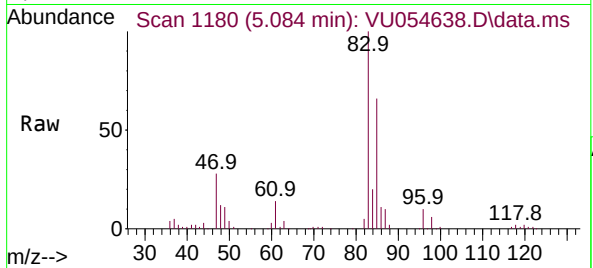




#25
Chloroform
Concen: 7.392 ug/L
RT: 5.084 min Scan# 1180
Delta R.T. -0.000 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

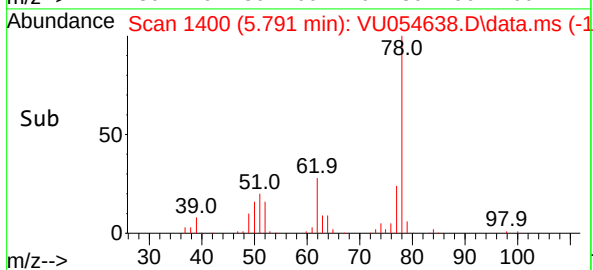
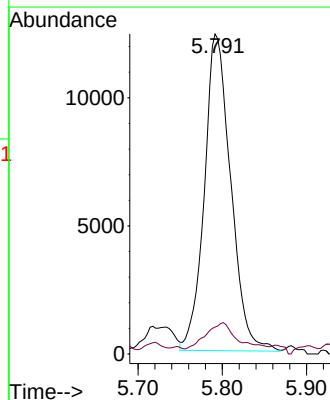
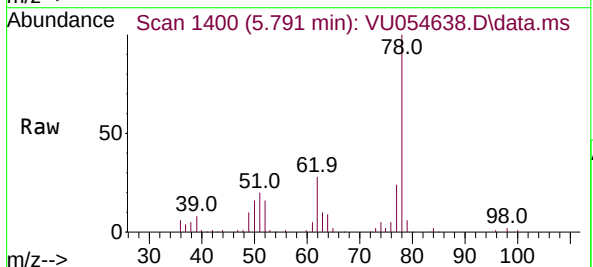
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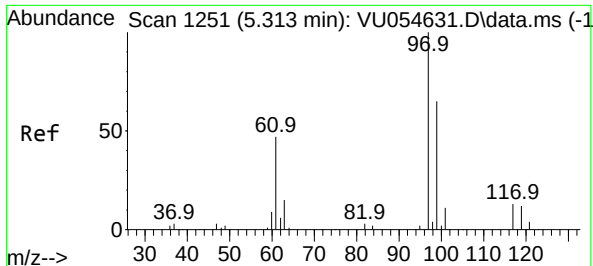
Tgt Ion: 83 Resp: 369022
Ion Ratio Lower Upper
83 100
85 65.7 44.7 82.9



#27
1,2-Dichloroethane
Concen: 0.921 ug/L
RT: 5.791 min Scan# 1400
Delta R.T. -0.000 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

Tgt Ion: 62 Resp: 26958
Ion Ratio Lower Upper
62 100
98 8.4 7.8 11.6

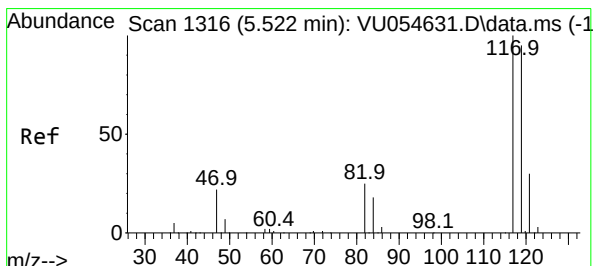
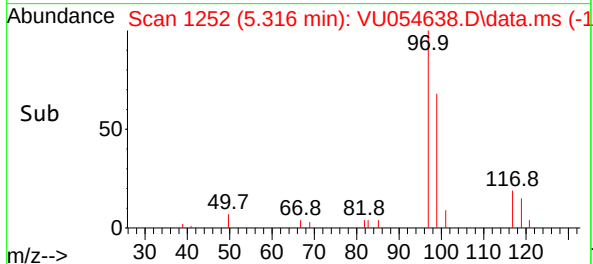
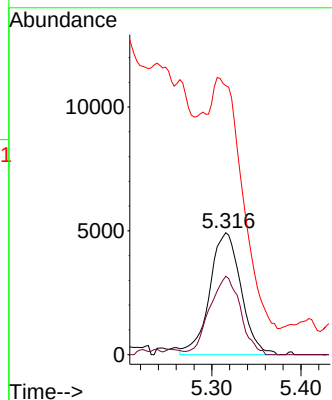
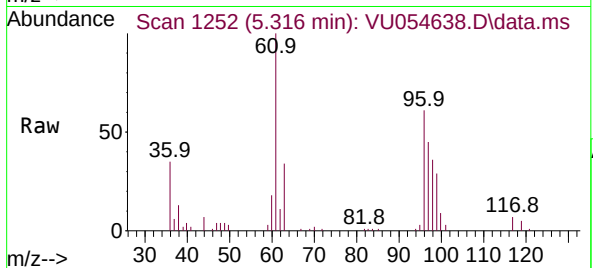




#29
1,1,1-Trichloroethane
Concen: 0.271 ug/L
RT: 5.316 min Scan# 11999
Delta R.T. 0.003 min
Lab File: VU054638.D
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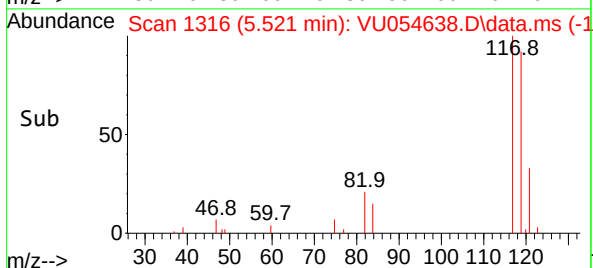
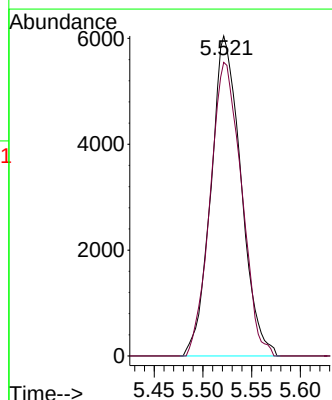
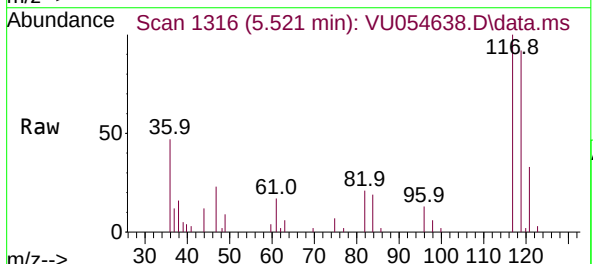
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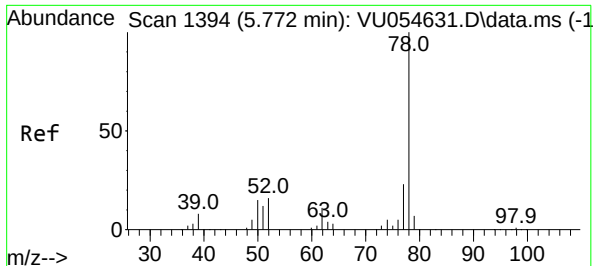
Tgt Ion: 97 Resp: 11999
Ion Ratio Lower Upper
97 100
99 63.4 50.8 76.2
61 199.0 36.1 54.1#



#31
Carbon tetrachloride
Concen: 0.340 ug/L
RT: 5.521 min Scan# 1316
Delta R.T. -0.000 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

Tgt Ion: 117 Resp: 12962
Ion Ratio Lower Upper
117 100
119 95.4 76.8 115.2

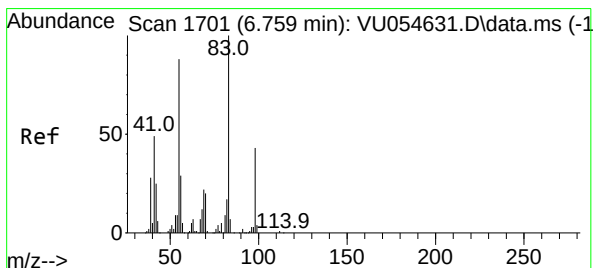
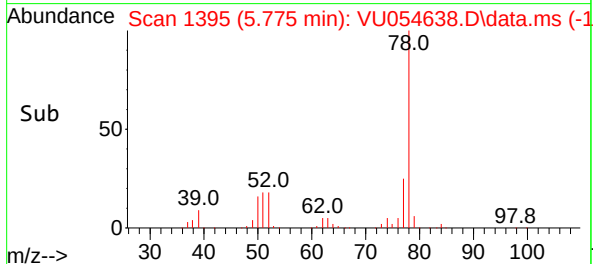
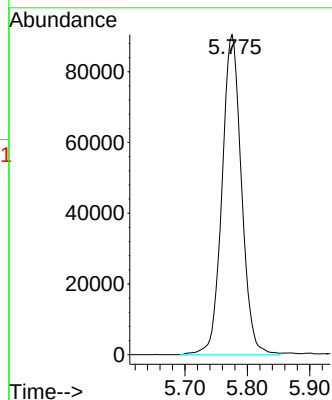
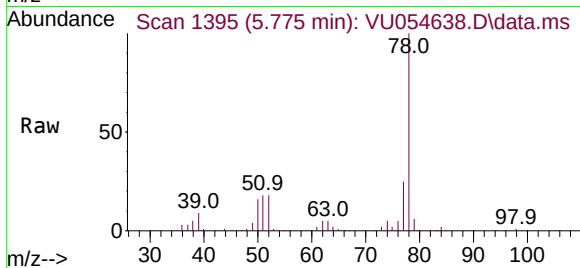




#33
Benzene
Concen: 1.674 ug/L
RT: 5.775 min Scan# 11
Delta R.T. 0.003 min
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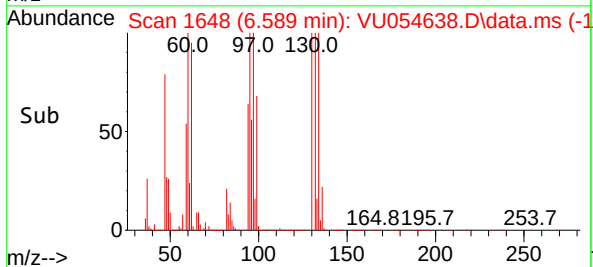
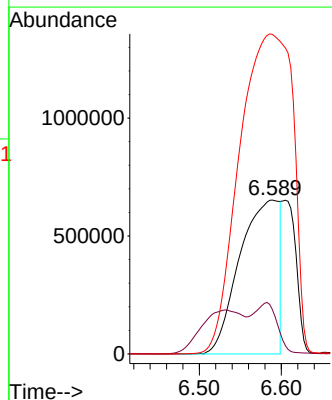
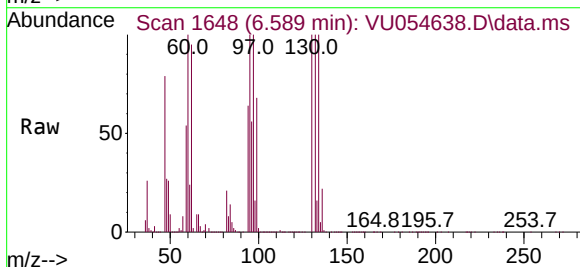
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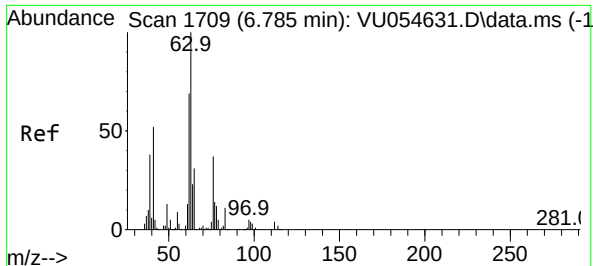
Tgt Ion: 78 Resp: 196238



#35
Methylcyclohexane
Concen: 46.793 ug/L
RT: 6.589 min Scan# 1648
Delta R.T. -0.171 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

Tgt Ion: 83 Resp: 2192715
Ion Ratio Lower Upper
83 100
55 18.4 67.1 100.7#
98 280.8 35.1 52.7#





#37

1,2-Dichloropropane

Concen: 26.610 ug/L

RT: 6.582 min Scan# 1

Delta R.T. -0.203 min

Lab File: VU054638.D

Acq: 21 Jun 2023 13:05

Instrument :

MSVOA_U

ClientSampleId :

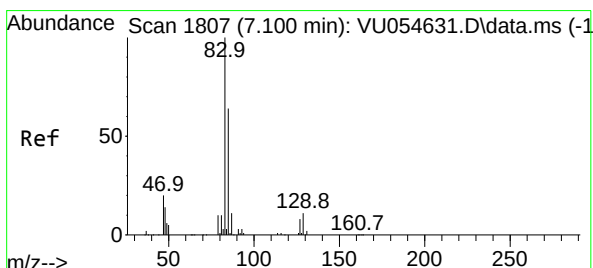
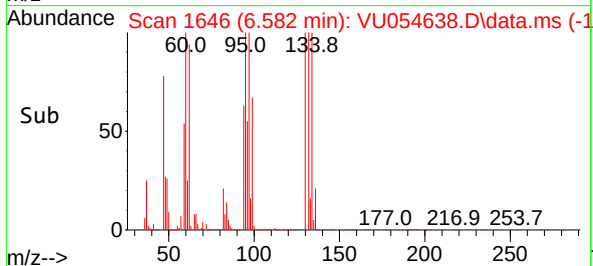
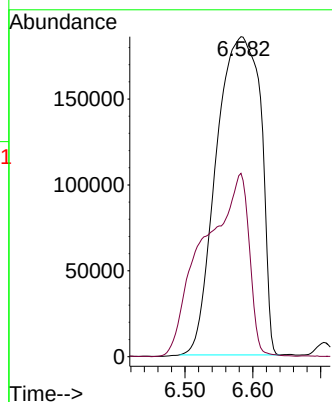
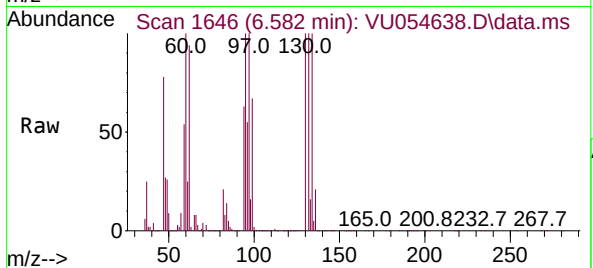
GCA39

Tgt Ion: 63 Resp: 843524

Ion Ratio Lower Upper

63 100

112 56.4 3.0 4.6#



#38

Bromodichloromethane

Concen: 0.167 ug/L

RT: 7.052 min Scan# 1792

Delta R.T. -0.048 min

Lab File: VU054638.D

Acq: 21 Jun 2023 13:05

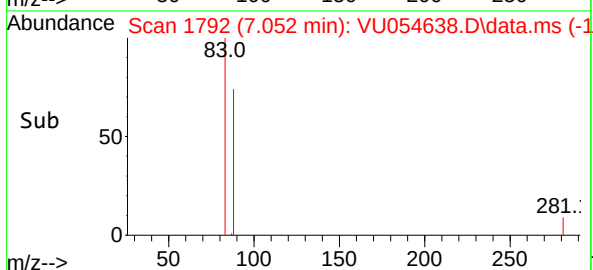
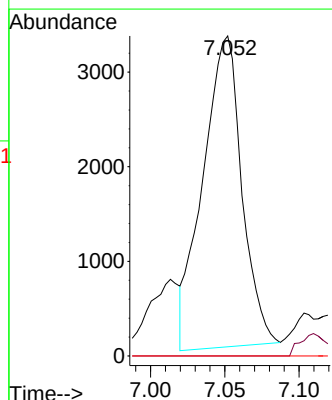
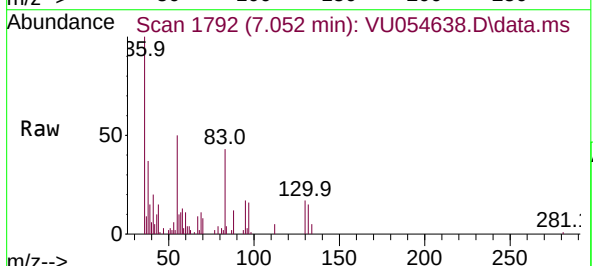
Tgt Ion: 83 Resp: 5999

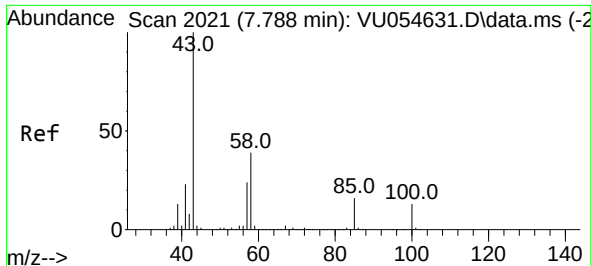
Ion Ratio Lower Upper

83 100

85 0.0 44.1 81.9#

127 0.0 6.6 10.0#





#40

4-Methyl-2-pentanone

Concen: 2.625 ug/L

RT: 7.788 min Scan# 2021

Delta R.T. -0.000 min

Lab File: VU054638.D

Acq: 21 Jun 2023 13:05

Instrument :

MSVOA_U

ClientSampleId :

GCA39

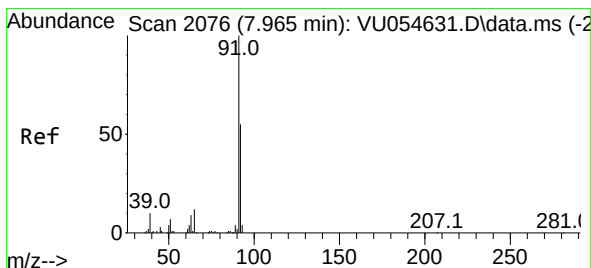
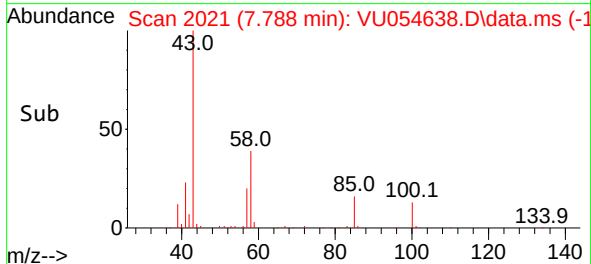
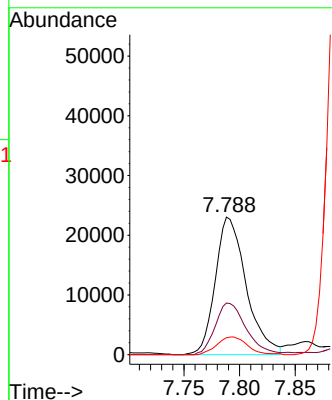
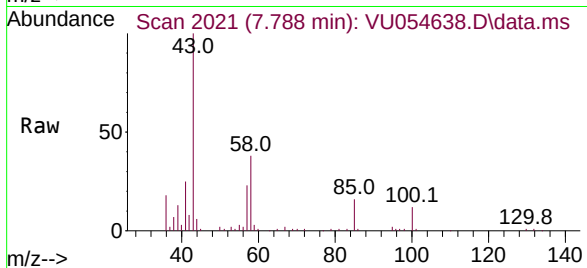
Tgt Ion: 43 Resp: 44397

Ion Ratio Lower Upper

43 100

58 37.6 32.4 48.6

100 0.0 11.4 17.2#



#42

Toluene

Concen: 0.783 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. -0.000 min

Lab File: VU054638.D

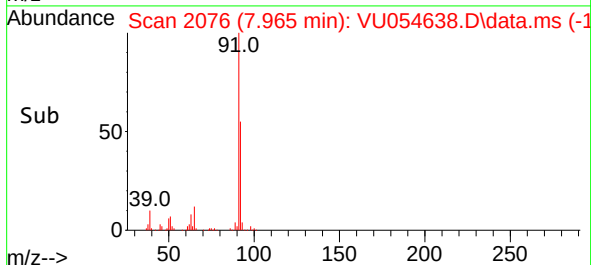
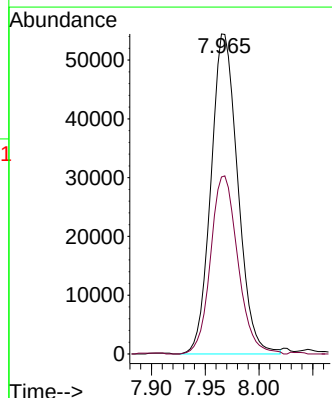
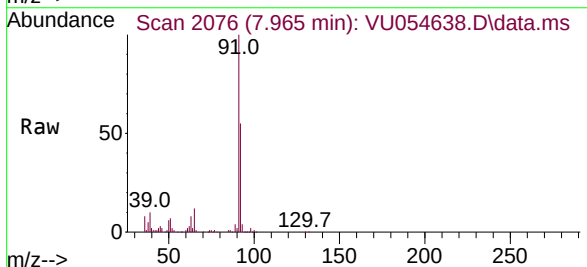
Acq: 21 Jun 2023 13:05

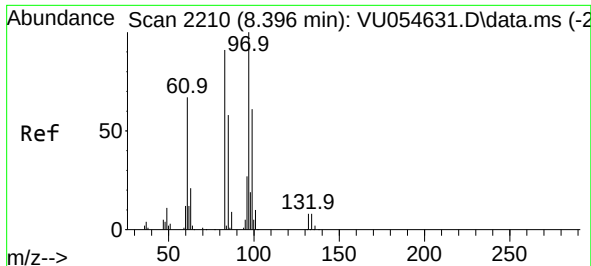
Tgt Ion: 91 Resp: 94521

Ion Ratio Lower Upper

91 100

92 55.3 39.5 73.4

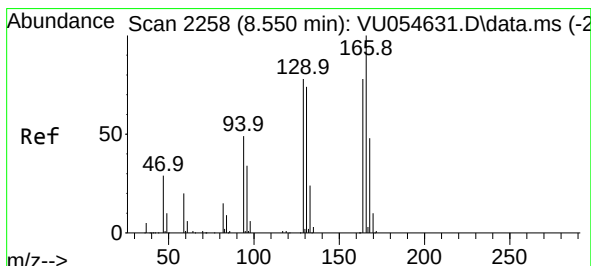
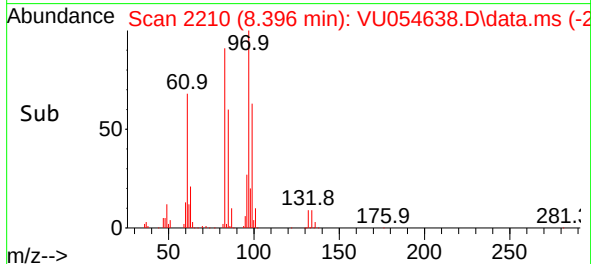
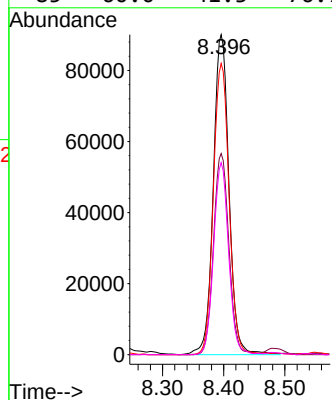
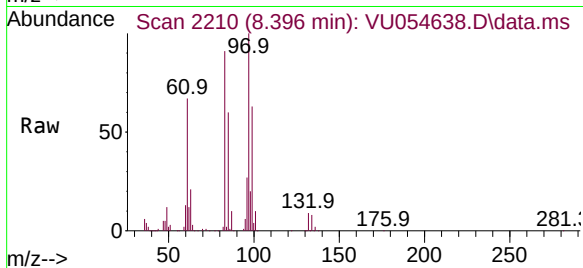




#45
1,1,2-Trichloroethane
Concen: 7.975 ug/L
RT: 8.396 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

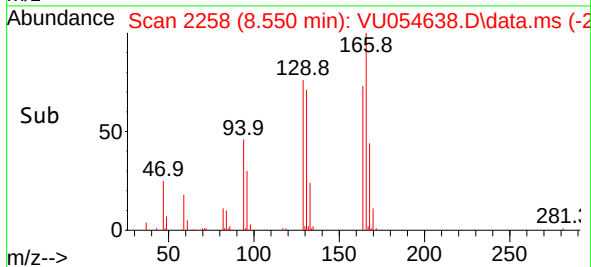
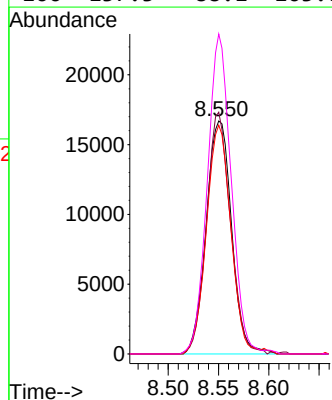
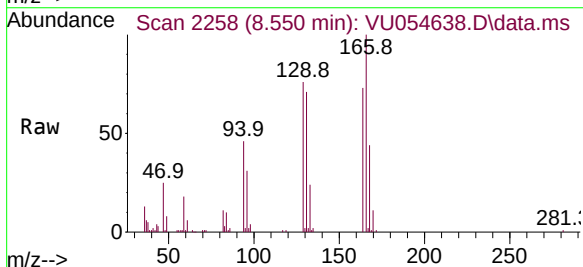
Instrument :
MSVOA_U
ClientSampleId :
GCA39

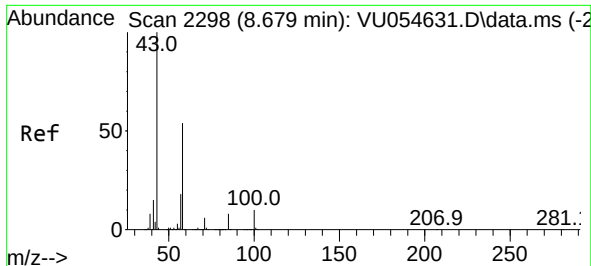
Tgt Ion:	97	Resp:	160827
Ion	Ratio	Lower	Upper
97	100		
99	62.8	43.0	80.0
83	91.0	63.8	118.6
85	60.0	41.3	76.7



#47
Tetrachloroethene
Concen: 1.241 ug/L
RT: 8.550 min Scan# 2258
Delta R.T. -0.000 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

Tgt Ion:	164	Resp:	29446
Ion	Ratio	Lower	Upper
164	100		
129	103.8	67.7	125.7
131	98.2	64.6	120.0
166	137.3	88.1	163.7

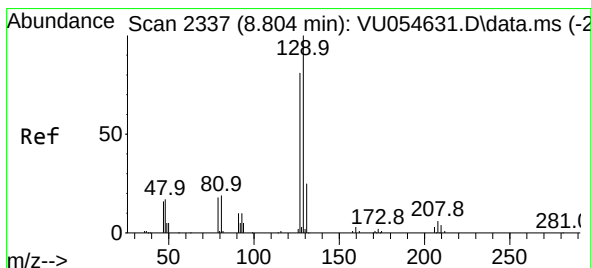
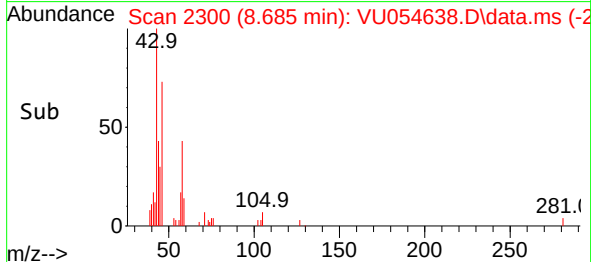
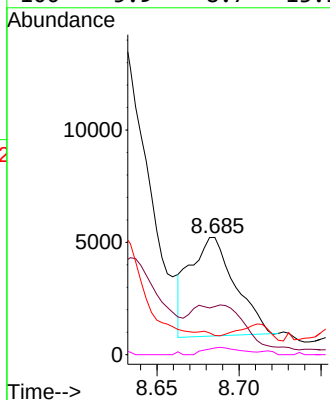
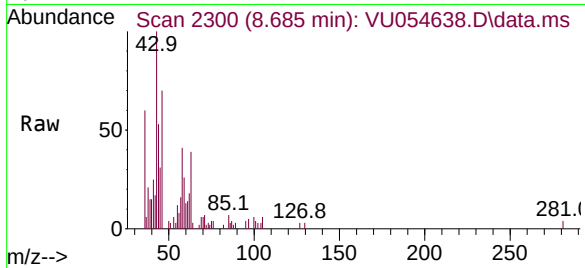




#48
2-Hexanone
Concen: 0.667 ug/L
RT: 8.685 min Scan# 21
Delta R.T. 0.006 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

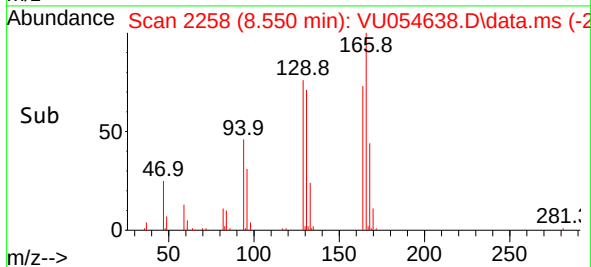
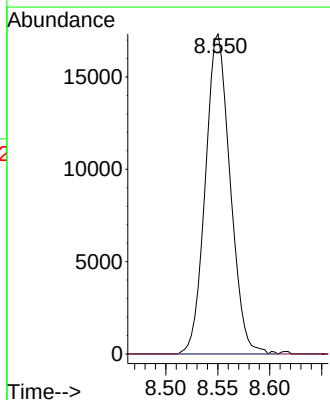
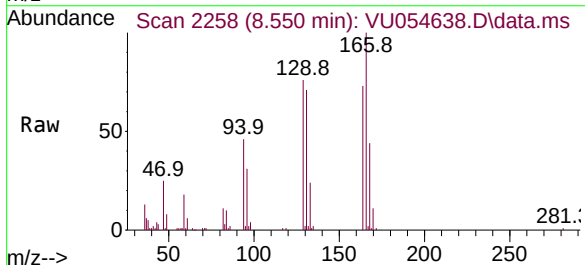
Instrument :
MSVOA_U
ClientSampleId :
GCA39

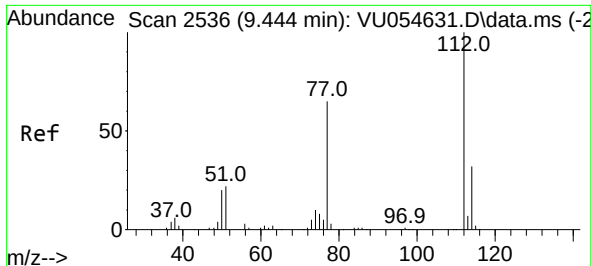
Tgt Ion: 43 Resp: 8407
Ion Ratio Lower Upper
43 100
58 0.0 45.2 67.8#
57 26.0 15.8 23.6#
100 5.9 8.7 13.1#



#49
Dibromochloromethane
Concen: 1.359 ug/L
RT: 8.550 min Scan# 2258
Delta R.T. -0.254 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

Tgt Ion: 129 Resp: 28783
Ion Ratio Lower Upper
129 100
127 0.0 53.2 98.8#

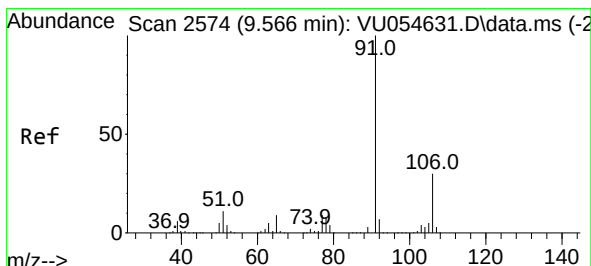
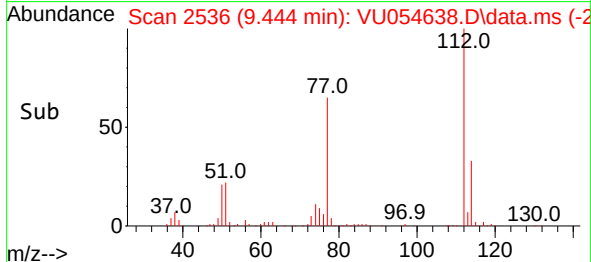
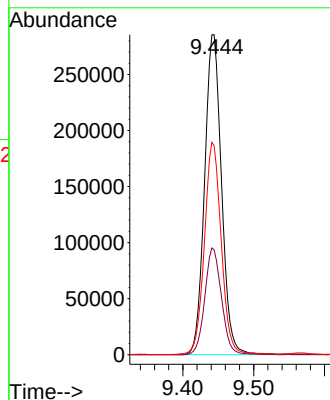
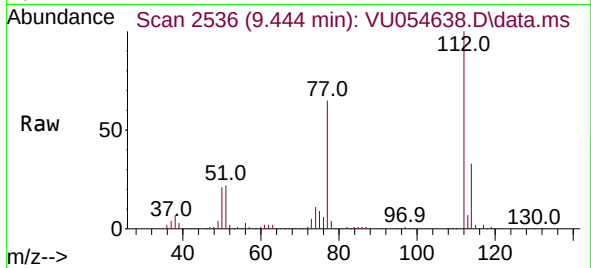




#51
Chlorobenzene
Concen: 6.301 ug/L
RT: 9.444 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

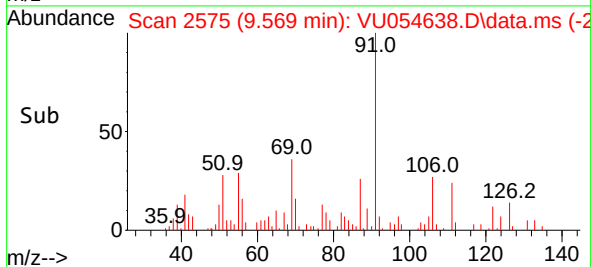
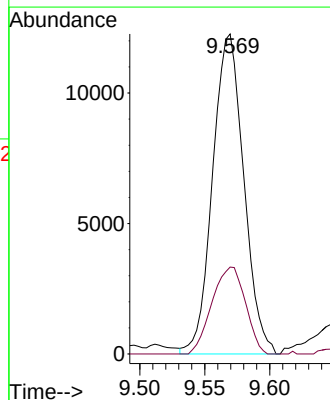
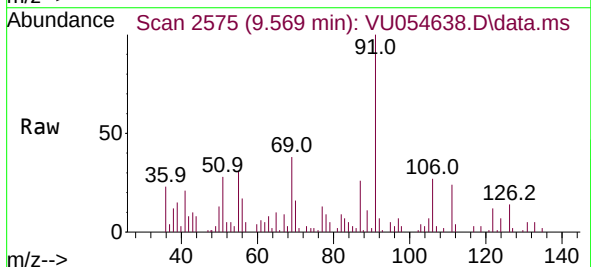
Instrument :
MSVOA_U
ClientSampleId :
GCA39

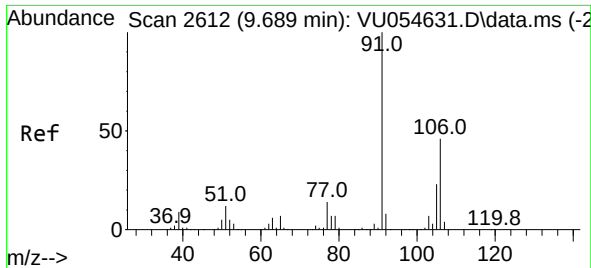
Tgt Ion:112 Resp: 474237
Ion Ratio Lower Upper
112 100
114 32.8 22.7 42.1
77 65.3 49.8 74.8



#52
Ethylbenzene
Concen: 0.155 ug/L
RT: 9.569 min Scan# 2575
Delta R.T. 0.003 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

Tgt Ion: 91 Resp: 20438
Ion Ratio Lower Upper
91 100
106 27.2 21.1 39.3

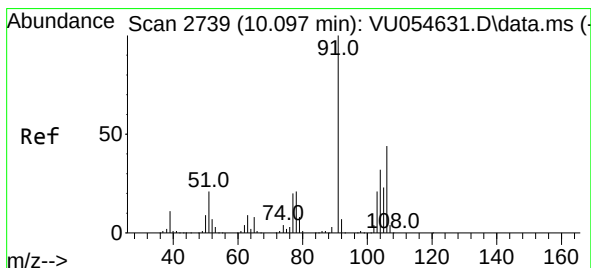
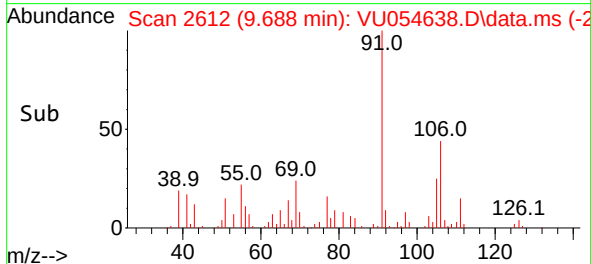
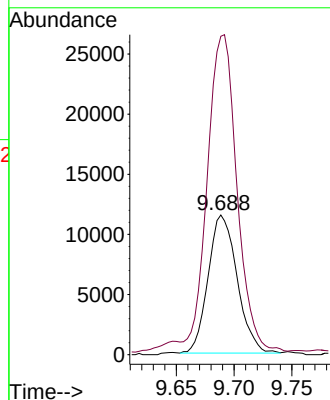
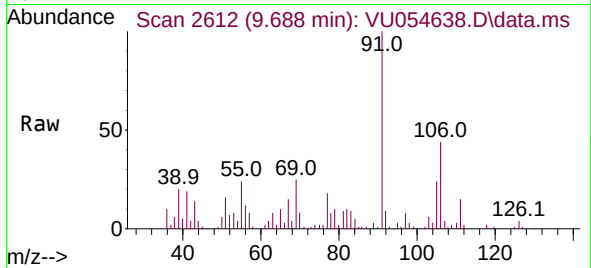




#53
m,p-Xylene
Concen: 0.414 ug/L
RT: 9.688 min Scan# 2612
Delta R.T. -0.000 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

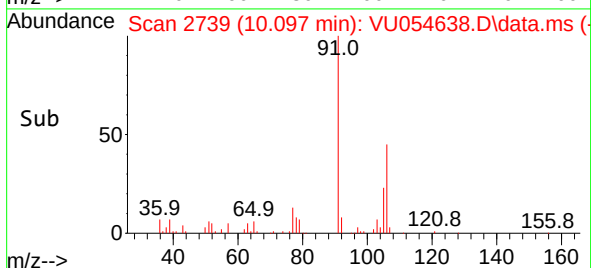
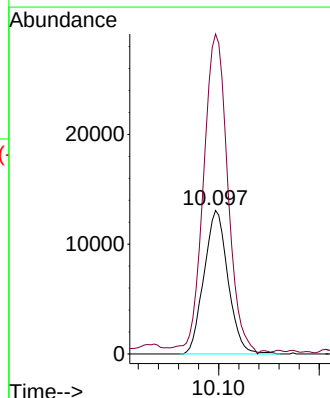
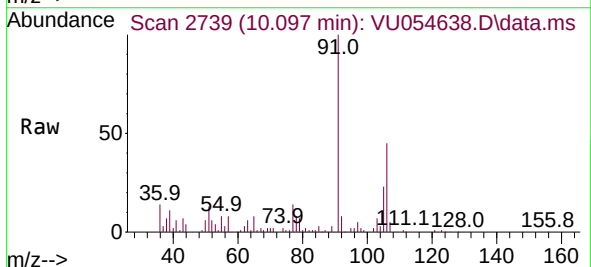
Instrument :
MSVOA_U
ClientSampleId :
GCA39

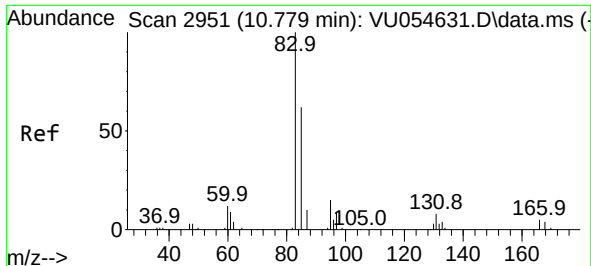
Tgt Ion:106 Resp: 20070
Ion Ratio Lower Upper
106 100
91 227.9 147.0 273.0



#54
o-Xylene
Concen: 0.462 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. -0.000 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

Tgt Ion:106 Resp: 21664
Ion Ratio Lower Upper
106 100
91 222.9 154.5 286.9





#57

1,1,2,2-Tetrachloroethane

Concen: 0.635 ug/L

RT: 10.807 min Scan# 2951

Delta R.T. 0.029 min

Lab File: VU054638.D

Acq: 21 Jun 2023 13:05

Instrument :

MSVOA_U

ClientSampleId :

GCA39

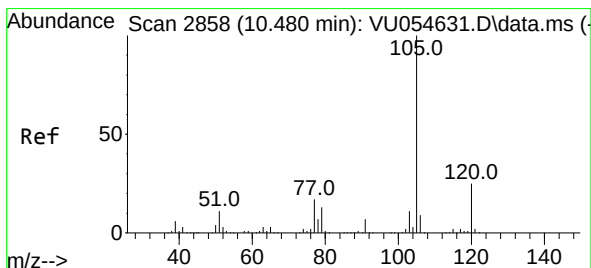
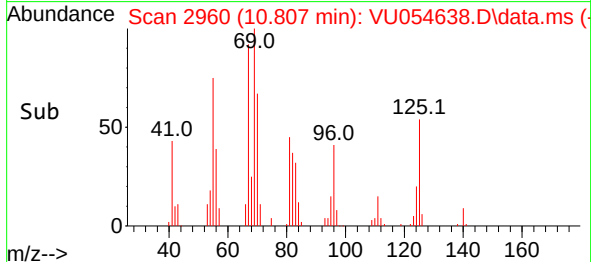
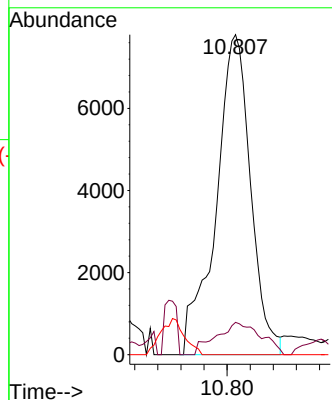
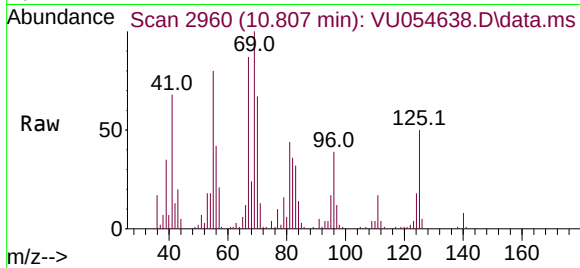
Tgt Ion: 83 Resp: 16253

Ion Ratio Lower Upper

83 100

85 10.1 44.2 82.2#

131 0.0 7.0 10.6#



#60

Isopropylbenzene

Concen: 1.859 ug/L

RT: 10.479 min Scan# 2858

Delta R.T. -0.000 min

Lab File: VU054638.D

Acq: 21 Jun 2023 13:05

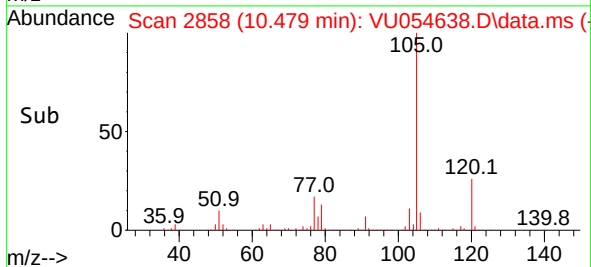
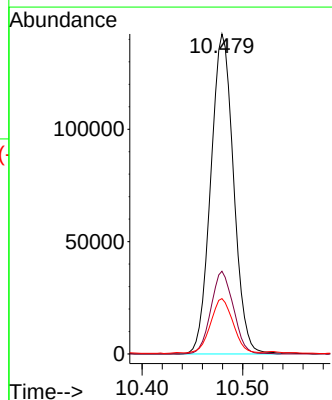
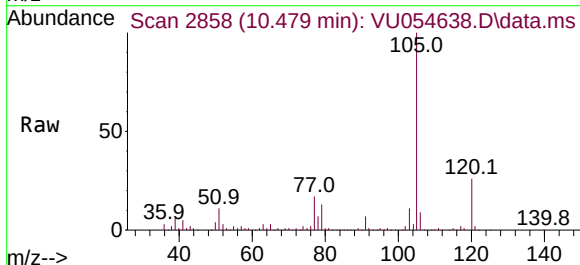
Tgt Ion:105 Resp: 224209

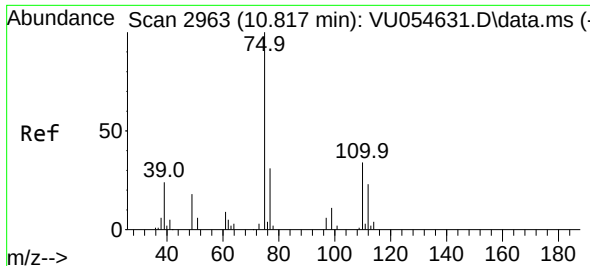
Ion Ratio Lower Upper

105 100

120 25.5 20.9 31.3

77 16.5 13.2 19.8

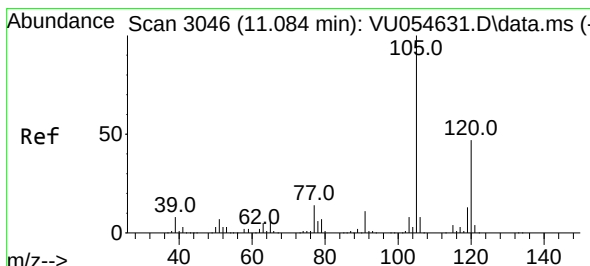
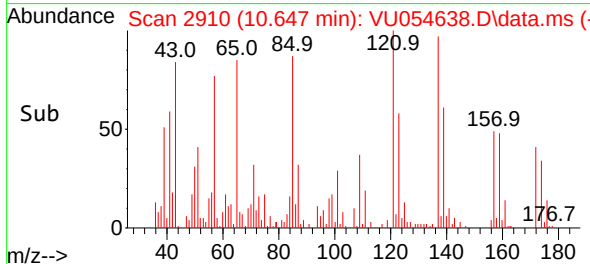
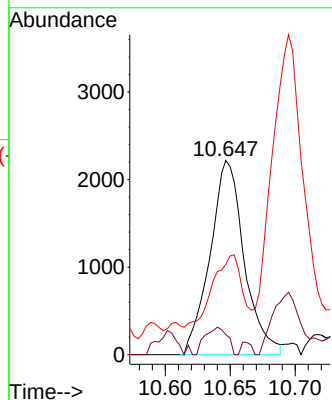
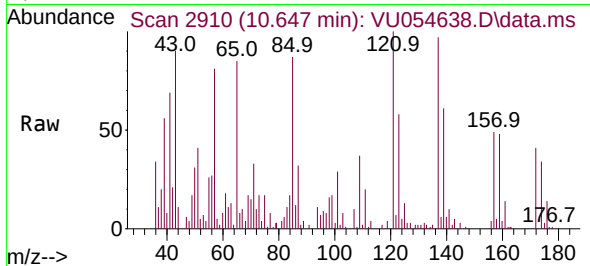




#61
1,2,3-Trichloropropane
Concen: 0.243 ug/L
RT: 10.647 min Scan# 2963
Delta R.T. -0.171 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

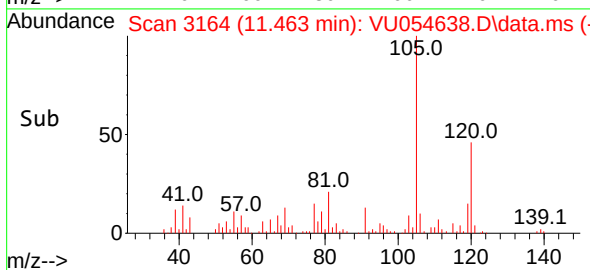
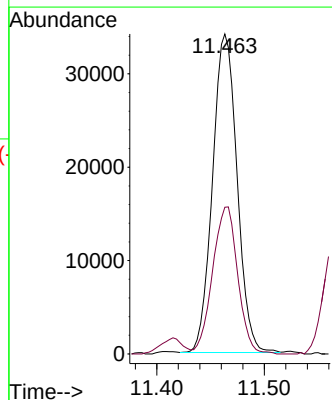
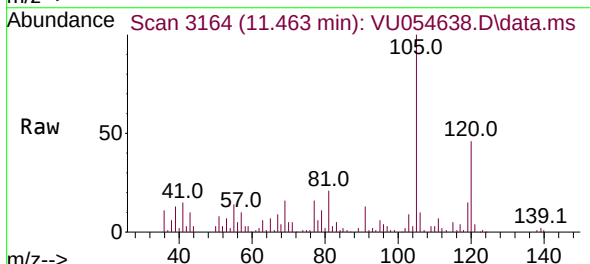
Instrument :
MSVOA_U
ClientSampleId :
GCA39

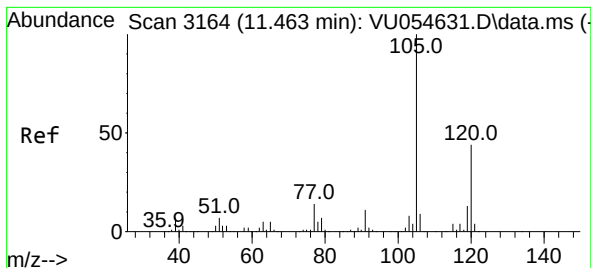
Tgt Ion: 75 Resp: 4049
Ion Ratio Lower Upper
75 100
110 9.2 28.0 42.0#
77 0.0 25.4 38.2#



#62
1,3,5-Trimethylbenzene
Concen: 0.549 ug/L
RT: 11.463 min Scan# 3164
Delta R.T. 0.379 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

Tgt Ion: 105 Resp: 54023
Ion Ratio Lower Upper
105 100
120 47.5 37.9 56.9





#63

1,2,4-Trimethylbenzene

Concen: 0.541 ug/L

RT: 11.463 min Scan# 3164

Delta R.T. -0.000 min

Lab File: VU054638.D

Acq: 21 Jun 2023 13:05

Instrument :

MSVOA_U

ClientSampleId :

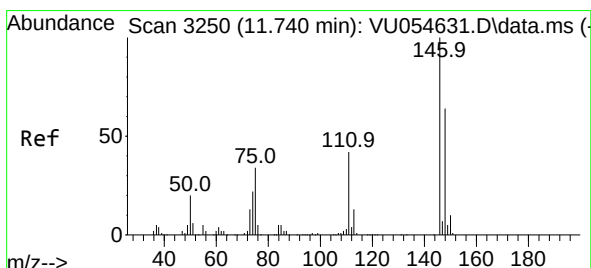
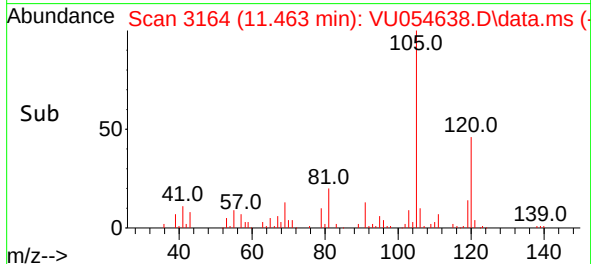
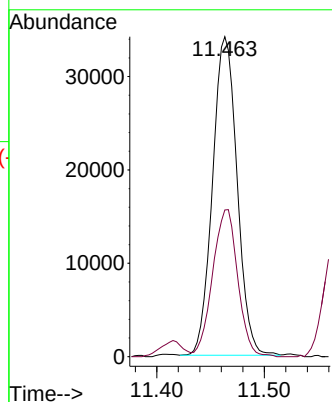
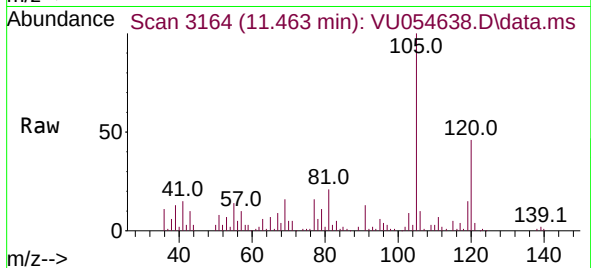
GCA39

Tgt Ion:105 Resp: 54023

Ion Ratio Lower Upper

105 100

120 47.5 35.4 53.0



#64

1,3-Dichlorobenzene

Concen: 0.287 ug/L

RT: 11.743 min Scan# 3251

Delta R.T. 0.003 min

Lab File: VU054638.D

Acq: 21 Jun 2023 13:05

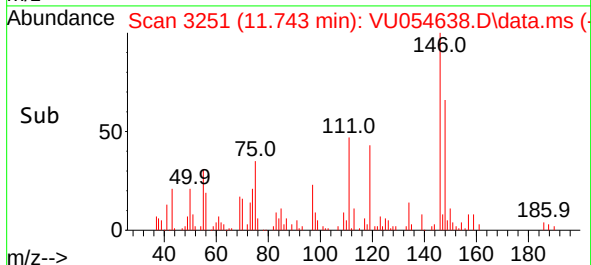
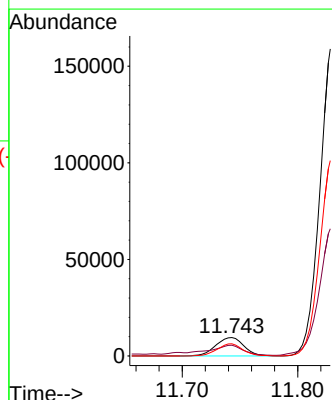
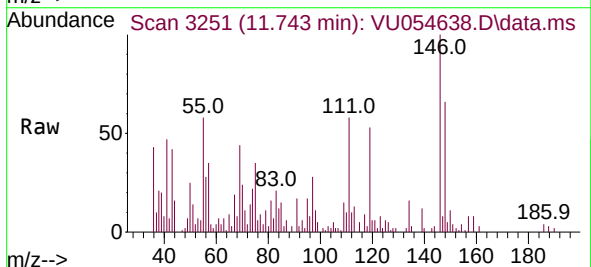
Tgt Ion:146 Resp: 16153

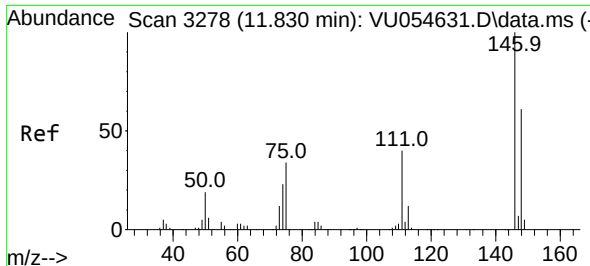
Ion Ratio Lower Upper

146 100

111 58.1 28.9 53.7#

148 66.0 44.0 81.8

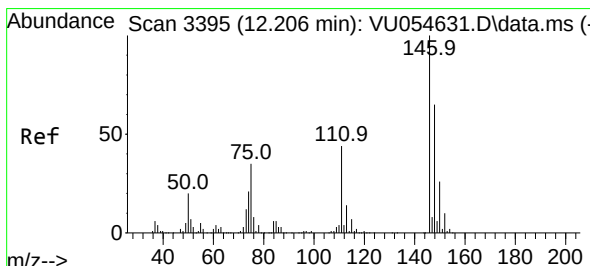
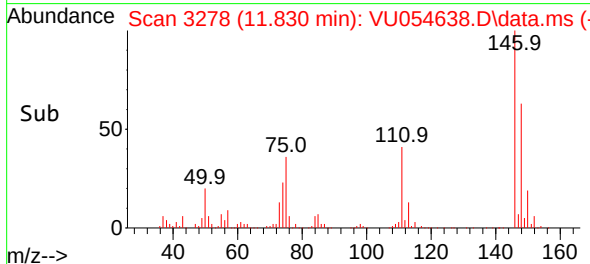
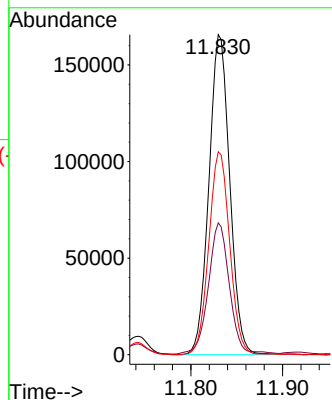
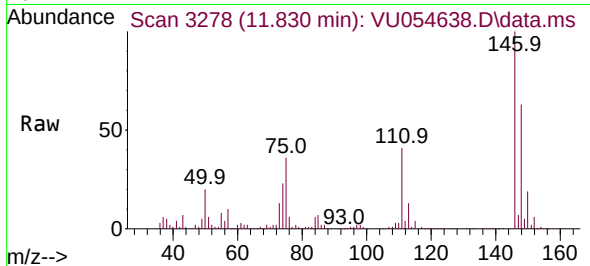




#65
1,4-Dichlorobenzene
Concen: 4.616 ug/L
RT: 11.830 min Scan# 311
Delta R.T. -0.000 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

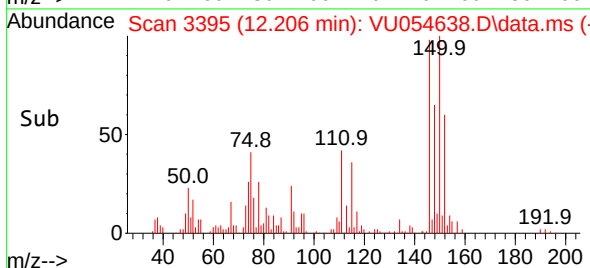
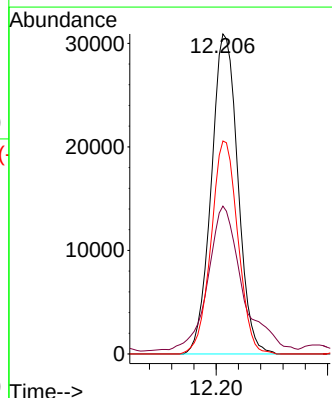
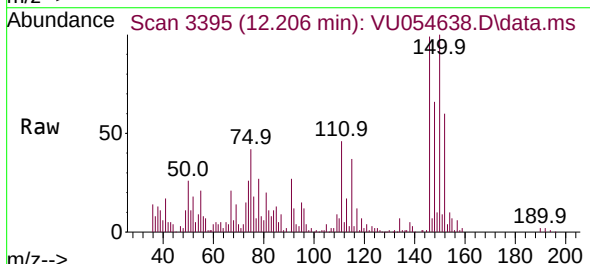
Instrument :
MSVOA_U
ClientSampleId :
GCA39

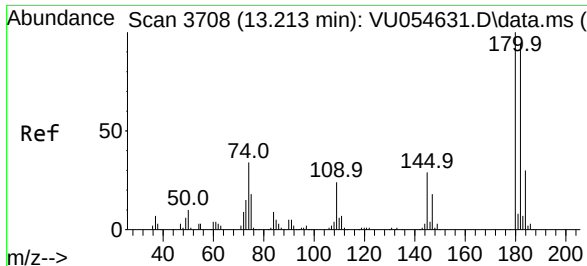
Tgt Ion:146 Resp: 261125
Ion Ratio Lower Upper
146 100
111 41.2 28.0 52.0
148 63.4 44.7 83.1



#67
1,2-Dichlorobenzene
Concen: 0.987 ug/L
RT: 12.206 min Scan# 3395
Delta R.T. -0.000 min
Lab File: VU054638.D
Acq: 21 Jun 2023 13:05

Tgt Ion:146 Resp: 51165
Ion Ratio Lower Upper
146 100
111 46.2 34.5 51.7
148 66.6 50.9 76.3

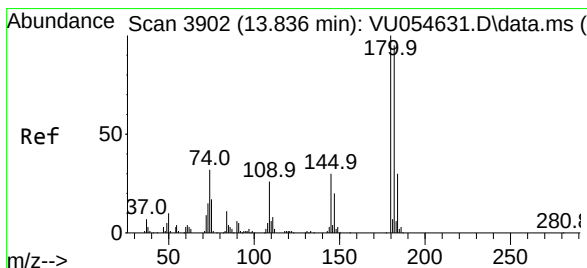
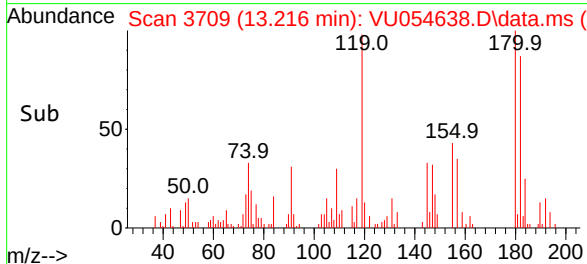
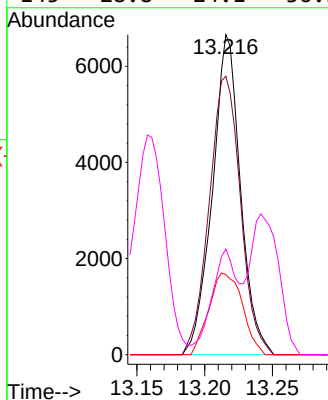
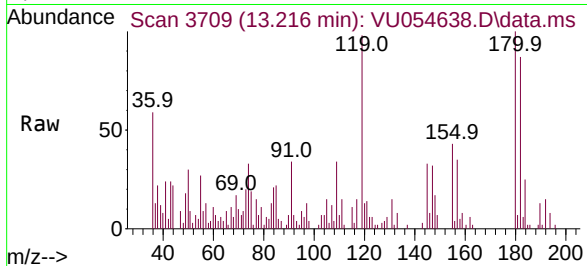




#69
 1,3,5-Trichlorobenzene
 Concen: 0.226 ug/L
 RT: 13.216 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VU054638.D
 Acq: 21 Jun 2023 13:05

Instrument :
 MSVOA_U
 ClientSampleId :
 GCA39

Tgt Ion:180 Resp: 9591
 Ion Ratio Lower Upper
 180 100
 182 96.8 75.0 112.6
 184 30.3 24.1 36.1
 145 28.8 24.1 36.1



#70
 1,2,4-trichlorobenzene
 Concen: 1.549 ug/L
 RT: 13.836 min Scan# 3902
 Delta R.T. -0.000 min
 Lab File: VU054638.D
 Acq: 21 Jun 2023 13:05

Tgt Ion:180 Resp: 54467
 Ion Ratio Lower Upper
 180 100
 182 96.4 76.6 114.8
 145 47.5 24.0 36.0#

