

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U020823\
 Data File : U053003.D
 Acq On : 08 Feb 2023 16:16
 Operator : JC/MD
 Sample : 01443-06
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 X3E95

Quant Time: Feb 09 01:48:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM020823WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Feb 09 01:09:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.244	114	362896	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.421	117	355148	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.813	152	195702	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.598	65	142565	42.285	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	84.560%		
7) Chloroethane-d5	1.913	69	119269	43.732	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	87.460%		
11) 1,1-Dichloroethene-d2	2.547	63	175451	33.959	ug/L	-0.02
Spiked Amount 50.000	Range 60 - 125		Recovery =	67.920%		
21) 2-Butanone-d5	4.643	46	103747	79.339	ug/L	0.02
Spiked Amount 100.000	Range 40 - 130		Recovery =	79.340%		
24) Chloroform-d	5.061	84	219490	39.373	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	78.740%		
26) 1,2-Dichloroethane-d4	5.698	65	142797	42.857	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	85.720%		
32) Benzene-d6	5.720	84	499789	42.416	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	84.840%		
36) 1,2-Dichloropropane-d6	6.688	67	151944	41.795	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	83.580%		
41) Toluene-d8	7.897	98	495482	42.916	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	85.840%		
43) trans-1,3-Dichloroprop...	8.180	79	87674	44.003	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	88.000%		
47) 2-Hexanone-d5	8.672	63	102979	93.278	ug/L	0.04
Spiked Amount 100.000	Range 45 - 130		Recovery =	93.280%		
56) 1,1,2,2-Tetrachloroeth...	10.765	84	208040	41.337	ug/L	0.02
Spiked Amount 50.000	Range 65 - 120		Recovery =	82.680%		
66) 1,2-Dichlorobenzene-d4	12.193	152	198217	45.510	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	91.020%		
Target Compounds						Qvalue
10) 1,1,2-Trichloro-1,2,2-...	2.547	101	1962	0.785	ug/L #	25
13) Acetone	2.656	43	225646	190.755	ug/L	93
15) Methyl Acetate	2.958	43	2410	1.406	ug/L #	76
17) trans-1,2-Dichloroethene	3.338	96	289601	113.742	ug/L	95
25) Chloroform	5.087	83	20495	4.201	ug/L	96
27) 1,2-Dichloroethane	5.769	62	9928	2.847	ug/L	99
30) 1,1,1-Trichloroethane	5.306	97	757613	165.933	ug/L	98
33) Benzene	5.765	78	1157896	106.341	ug/L	100
34) Trichloroethene	6.537	95	532447	179.809	ug/L	98
37) 1,2-Dichloropropane	6.788	63	249643	90.433	ug/L	98
38) Bromodichloromethane	7.103	83	278341	69.785	ug/L	99
39) cis-1,3-Dichloropropene	7.563	75	5913	1.246	ug/L #	62
42) Toluene	7.968	91	1600360	129.728	ug/L	95
44) trans-1,3-Dichloropropene	8.177	75	3866	0.840	ug/L #	68
45) 1,1,2-Trichloroethane	8.402	97	198927	69.961	ug/L	99
46) Tetrachloroethene	8.550	164	215216	91.770	ug/L	98
48) 2-Hexanone	8.720	43	254961	119.633	ug/L	94
50) 1,2-Dibromoethane	8.923	107	205016	65.907	ug/L	100
51) Chlorobenzene	9.450	112	822937	103.673	ug/L	99

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

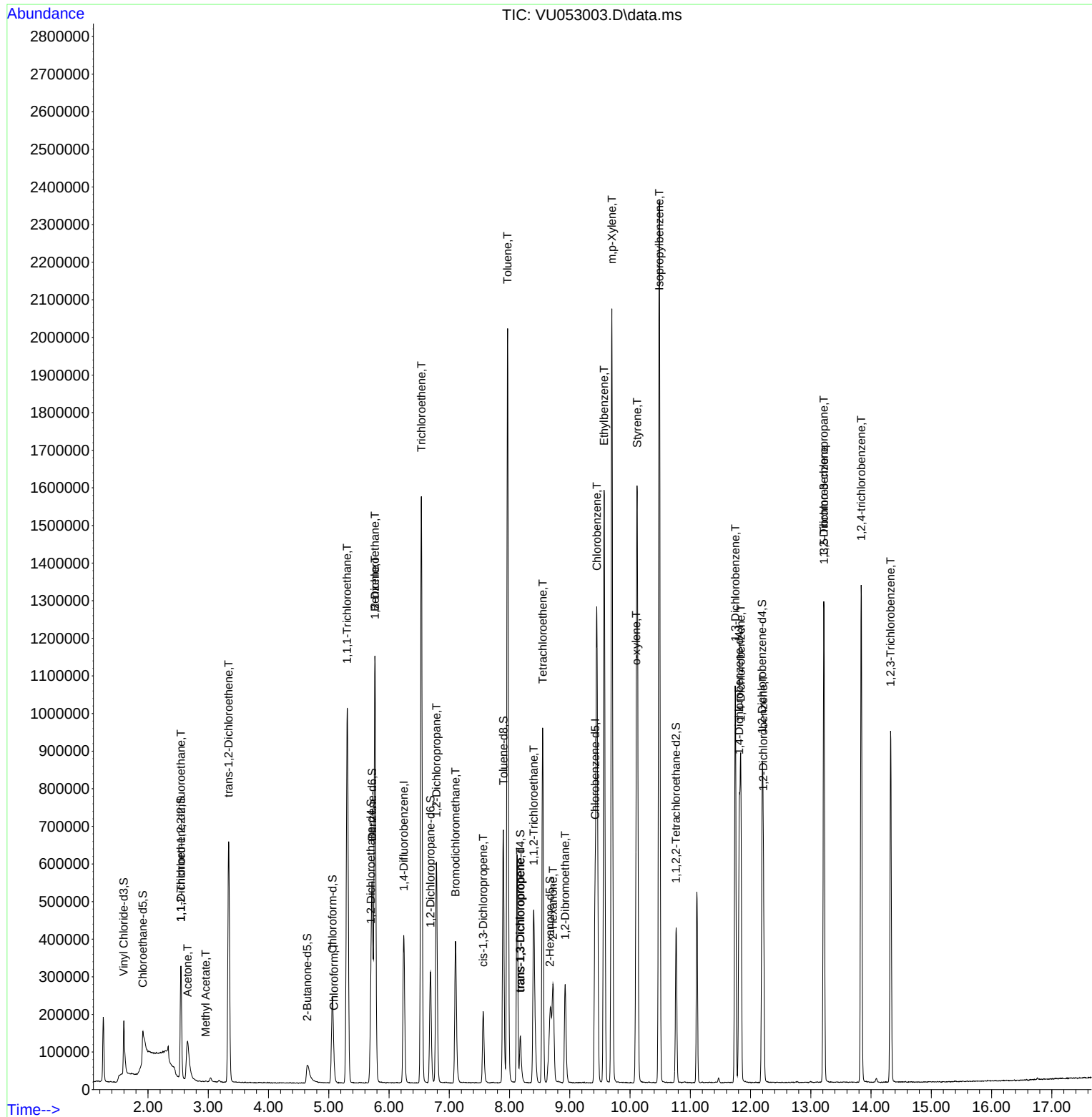
52) Ethylbenzene	9.569	91	1287621	94.909	ug/L	99
53) m,p-Xylene	9.698	106	648722	120.911	ug/L	97
54) o-xylene	10.103	106	137207	25.892	ug/L	95
55) Styrene	10.119	104	833177	93.210	ug/L	96
61) Isopropylbenzene	10.485	105	1703264	126.606	ug/L	100
64) 1,3-Dichlorobenzene	11.746	146	454471	74.883	ug/L	99
65) 1,4-Dichlorobenzene	11.839	146	353284	57.867	ug/L	99
67) 1,2-Dichlorobenzene	12.212	146	216392	35.508	ug/L	100
68) 1,2-Dibromo-3-chloropr...	13.215	75	62232	63.729	ug/L #	1
69) 1,3,5-Trichlorobenzene	13.218	180	400599	85.169	ug/L	99
70) 1,2,4-trichlorobenzene	13.836	180	417229	99.289	ug/L	99
72) 1,2,3-Trichlorobenzene	14.324	180	291755	70.836	ug/L	99

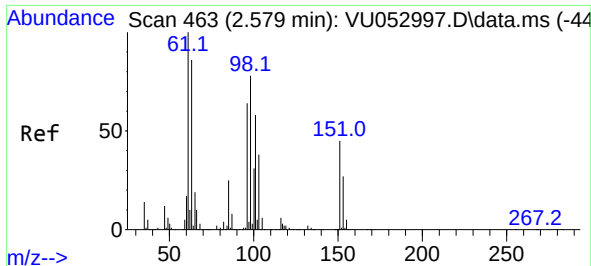
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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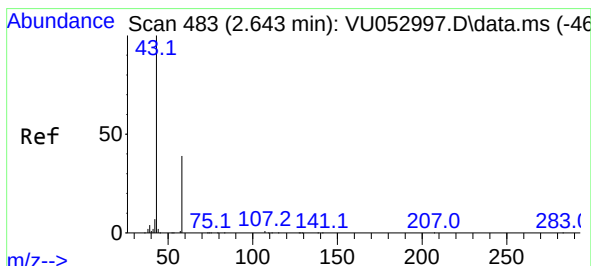
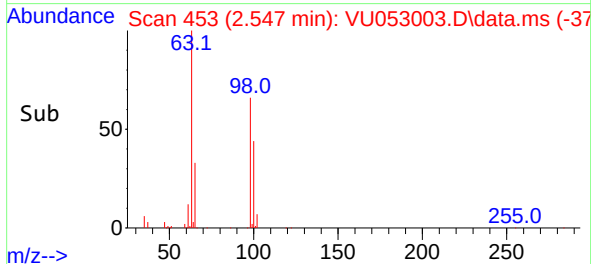
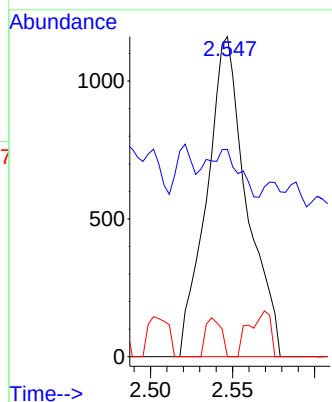
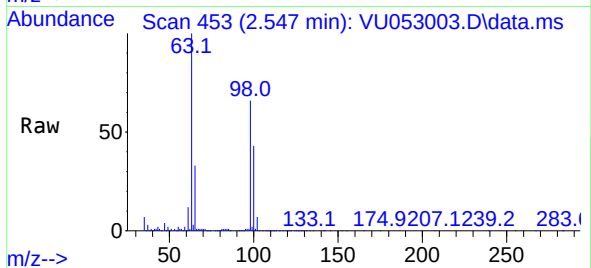




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.785 ug/L
RT: 2.547 min Scan# 410
Delta R.T. -0.032 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

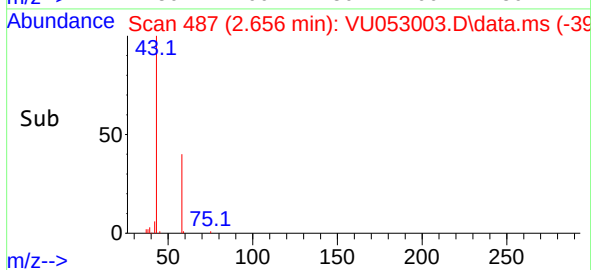
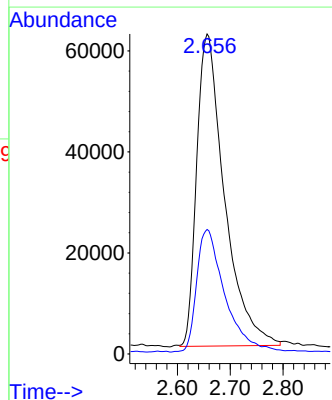
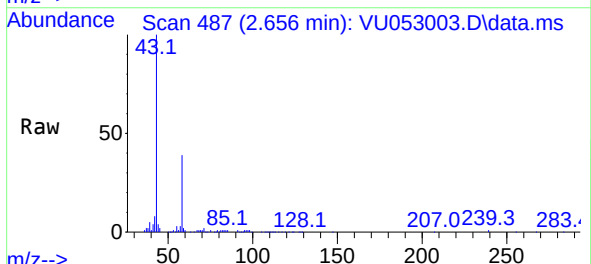
Instrument :
MSVOA_U
ClientSampleId :
X3E95

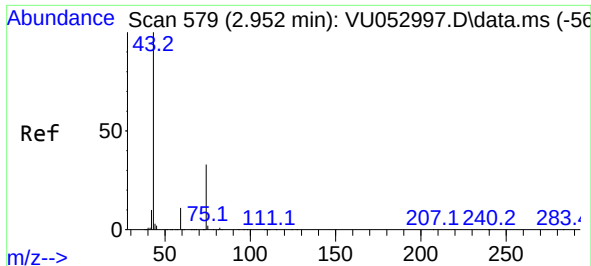
Tgt Ion:101 Resp: 1962
Ion Ratio Lower Upper
101 100
85 6.9 32.9 49.3#
151 3.2 62.6 94.0#



#13
Acetone
Concen: 190.755 ug/L
RT: 2.656 min Scan# 487
Delta R.T. 0.013 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

Tgt Ion: 43 Resp: 225646
Ion Ratio Lower Upper
43 100
58 39.0 0.0 70.2

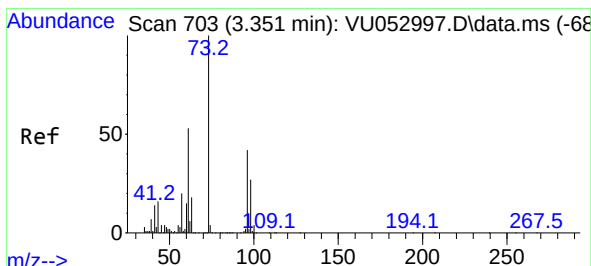
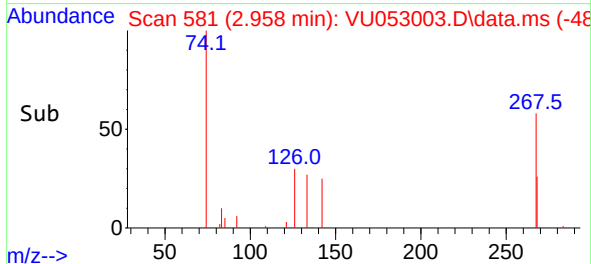
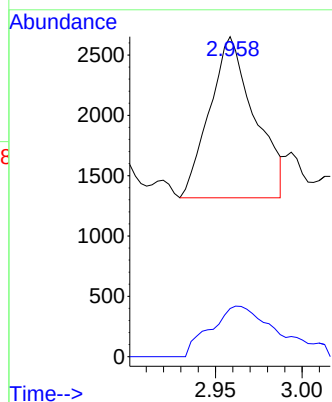
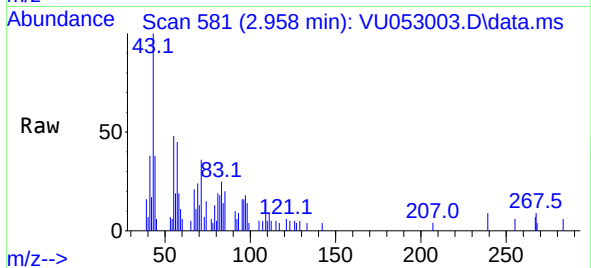




#15
Methyl Acetate
Concen: 1.406 ug/L
RT: 2.958 min Scan# 511
Delta R.T. 0.007 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

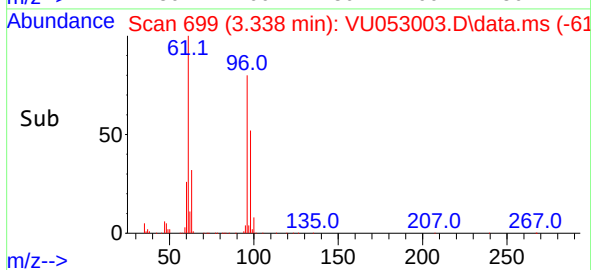
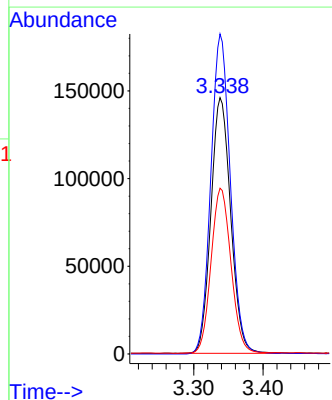
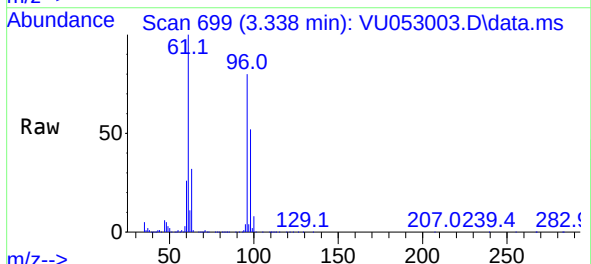
Instrument :
MSVOA_U
ClientSampleId :
X3E95

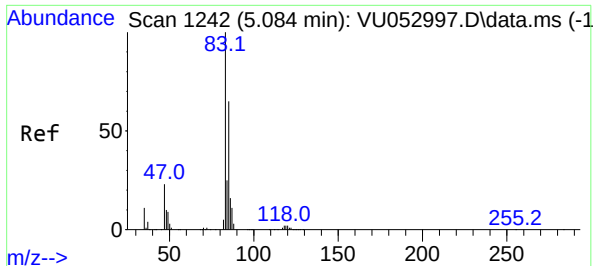
Tgt Ion: 43 Resp: 2410
Ion Ratio Lower Upper
43 100
74 40.0 22.0 33.0#



#17
trans-1,2-Dichloroethene
Concen: 113.742 ug/L
RT: 3.338 min Scan# 699
Delta R.T. -0.013 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

Tgt Ion: 96 Resp: 289601
Ion Ratio Lower Upper
96 100
61 124.9 92.7 172.3
98 64.7 44.7 82.9

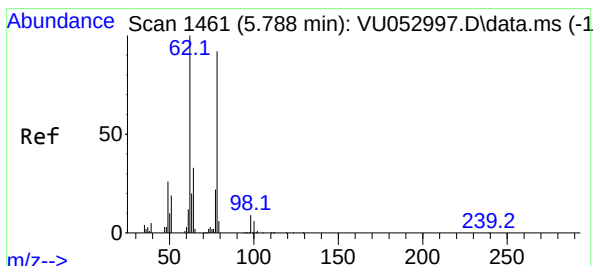
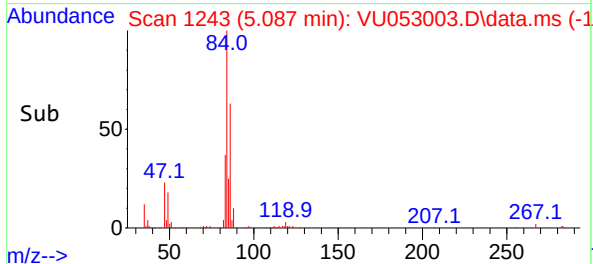
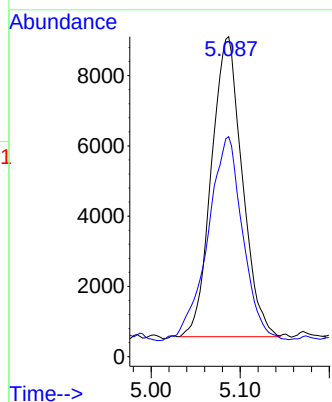
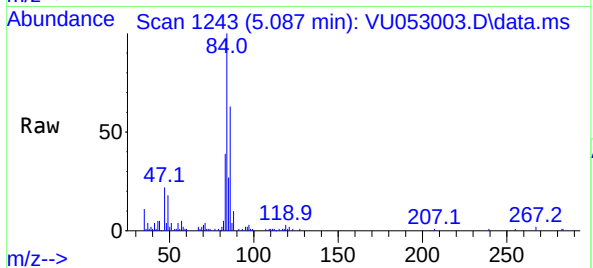




#25
Chloroform
Concen: 4.201 ug/L
RT: 5.087 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

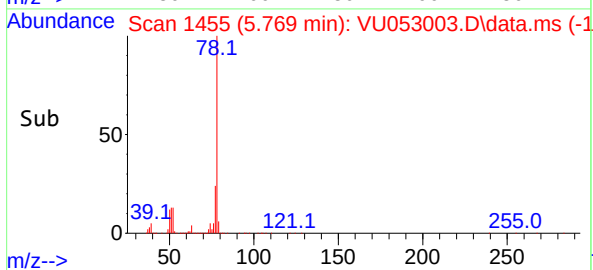
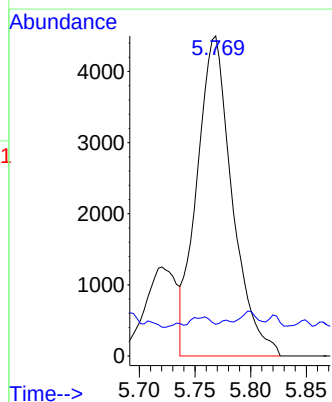
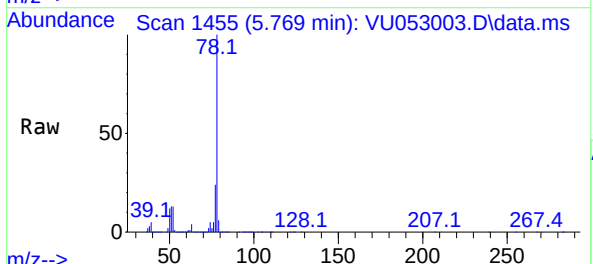
Instrument :
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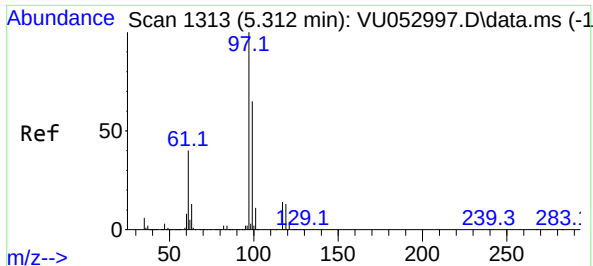
Tgt Ion: 83 Resp: 20495
Ion Ratio Lower Upper
83 100
85 68.8 45.8 85.0



#27
1,2-Dichloroethane
Concen: 2.847 ug/L
RT: 5.769 min Scan# 1455
Delta R.T. -0.019 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

Tgt Ion: 62 Resp: 9928
Ion Ratio Lower Upper
62 100
98 9.9 7.6 11.4

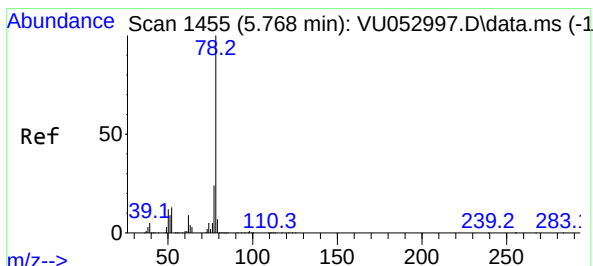
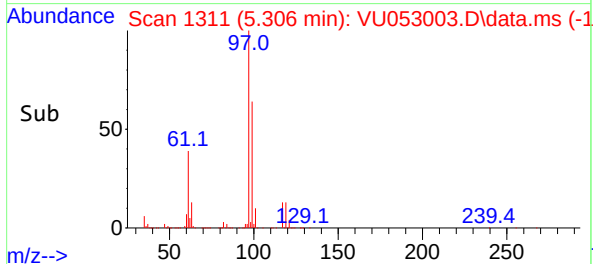
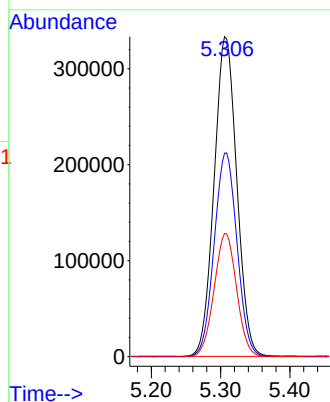
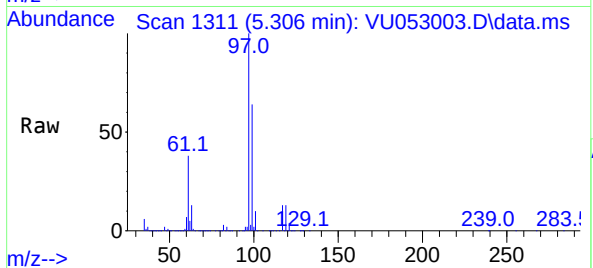




#30
1,1,1-Trichloroethane
Concen: 165.933 ug/L
RT: 5.306 min Scan# 11
Delta R.T. -0.006 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

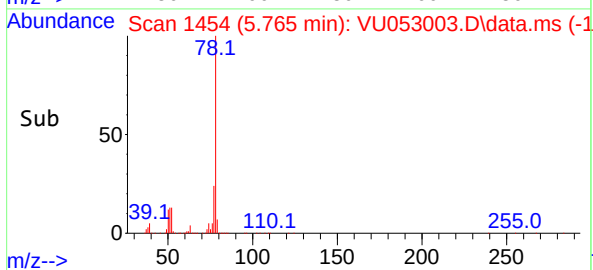
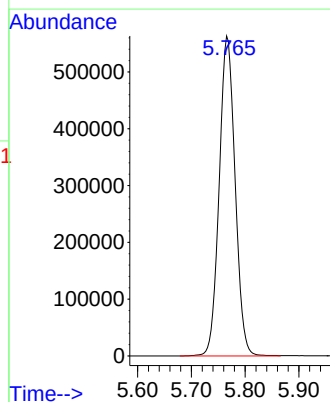
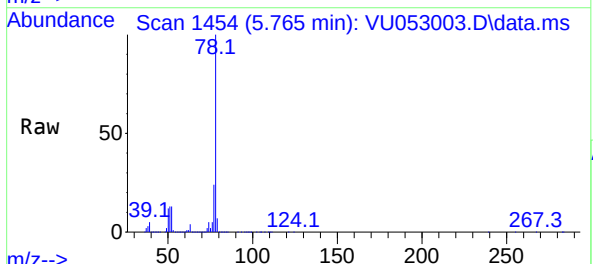
Instrument :
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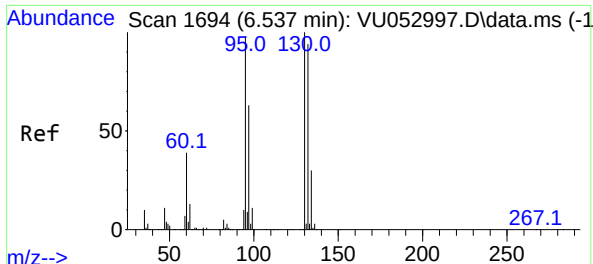
Tgt Ion: 97 Resp: 757613
Ion Ratio Lower Upper
97 100
99 64.2 51.4 77.0
61 38.3 33.0 49.6



#33
Benzene
Concen: 106.341 ug/L
RT: 5.765 min Scan# 1454
Delta R.T. -0.003 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

Tgt Ion: 78 Resp: 1157896



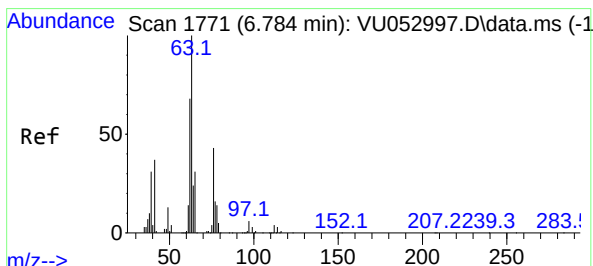
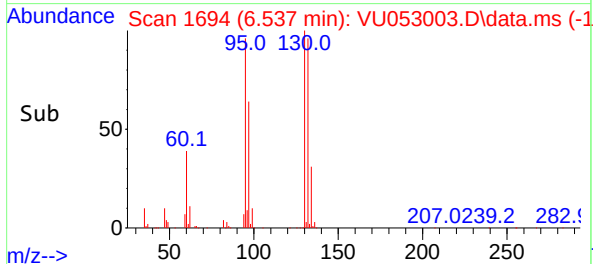
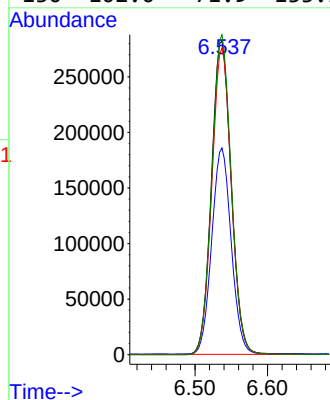
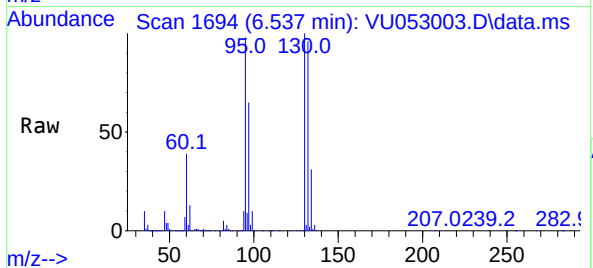


#34
Trichloroethene
Concen: 179.809 ug/L
RT: 6.537 min Scan# 1694
Delta R.T. 0.000 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

Instrument :
MSVOA_U
ClientSampleId :
X3E95

Tgt Ion: 95 Resp: 532447

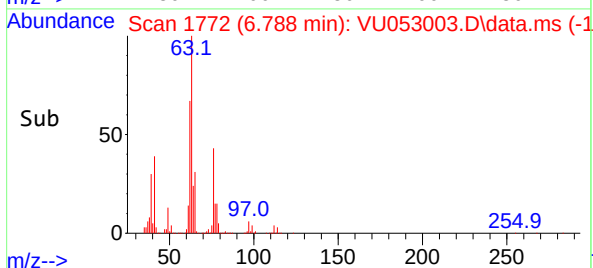
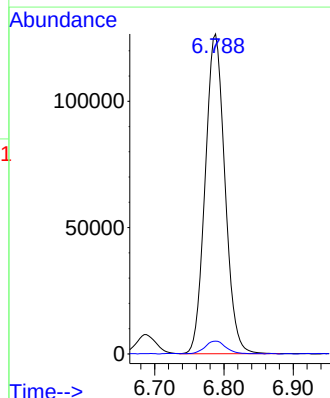
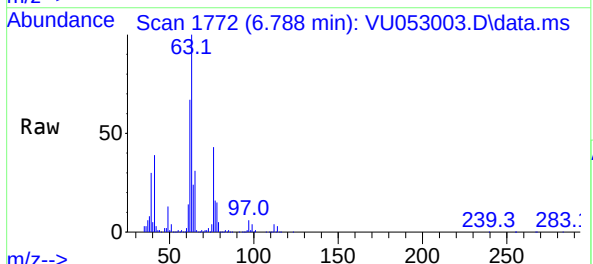
Ion	Ratio	Lower	Upper
95	100		
97	65.9	44.5	82.7
132	97.8	66.8	124.0
130	102.0	71.9	133.5

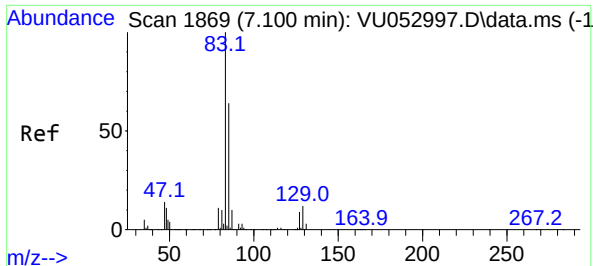


#37
1,2-Dichloropropane
Concen: 90.433 ug/L
RT: 6.788 min Scan# 1772
Delta R.T. 0.003 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

Tgt Ion: 63 Resp: 249643

Ion	Ratio	Lower	Upper
63	100		
112	4.2	3.8	5.8

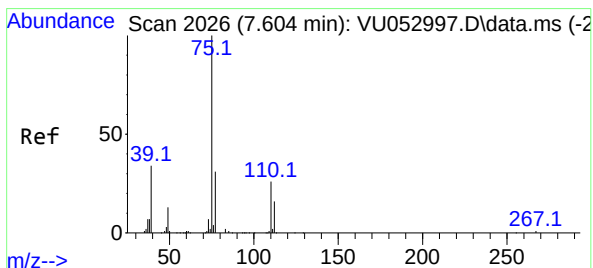
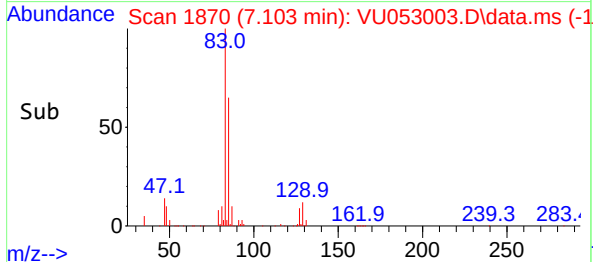
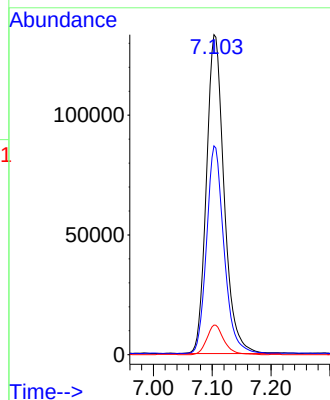
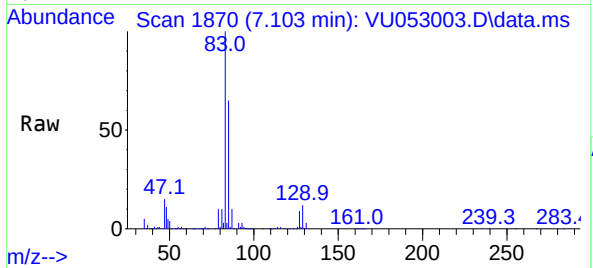




#38
Bromodichloromethane
Concen: 69.785 ug/L
RT: 7.103 min Scan# 11
Delta R.T. 0.003 min
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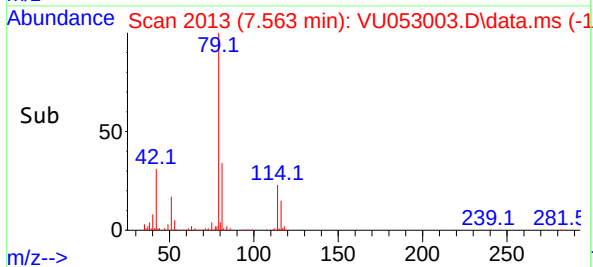
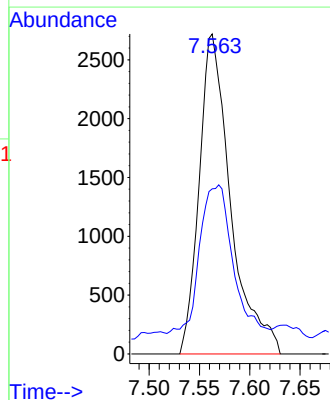
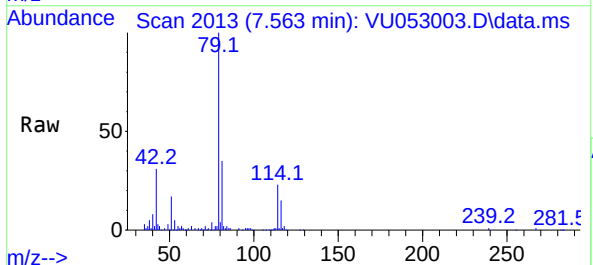
Instrument :
MSVOA_U
ClientSampleId :
X3E95

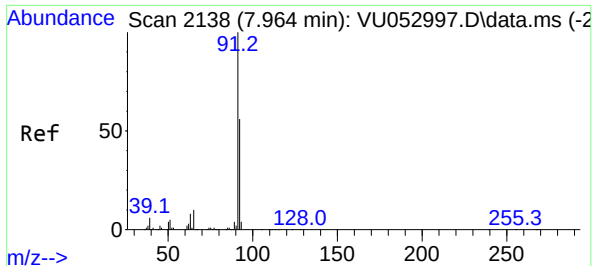
Tgt Ion: 83 Resp: 278341
Ion Ratio Lower Upper
83 100
85 65.3 45.2 84.0
127 9.3 7.4 11.0



#39
cis-1,3-Dichloropropene
Concen: 1.246 ug/L
RT: 7.563 min Scan# 2013
Delta R.T. -0.042 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

Tgt Ion: 75 Resp: 5913
Ion Ratio Lower Upper
75 100
77 51.6 21.6 40.0#

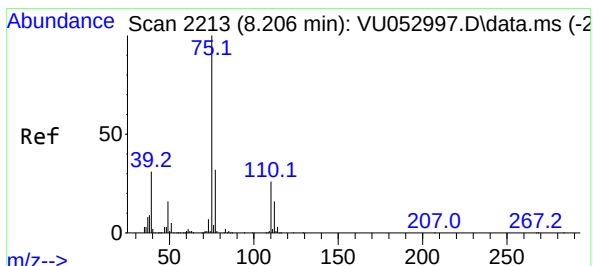
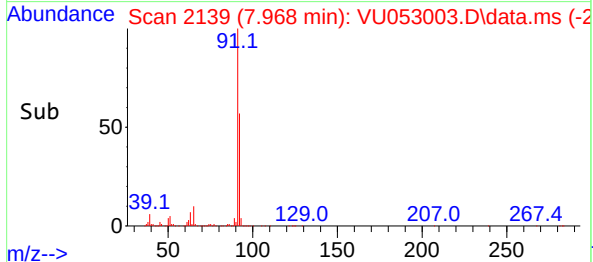
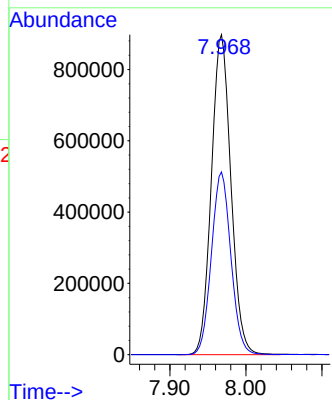
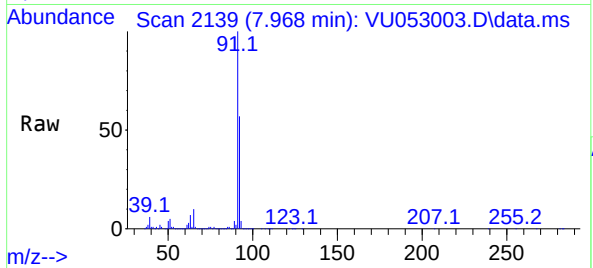




#42
Toluene
Concen: 129.728 ug/L
RT: 7.968 min Scan# 2138
Delta R.T. 0.003 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

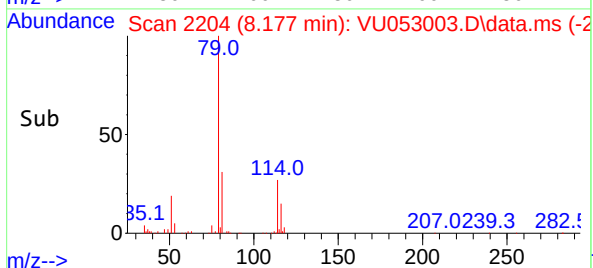
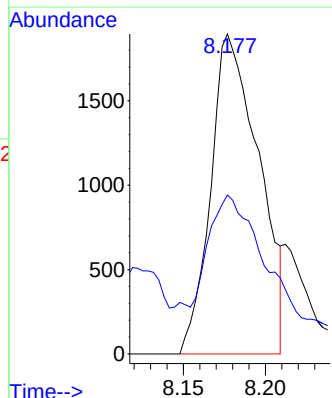
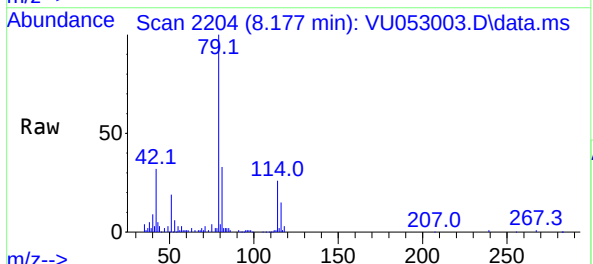
Instrument :
MSVOA_U
ClientSampleId :
X3E95

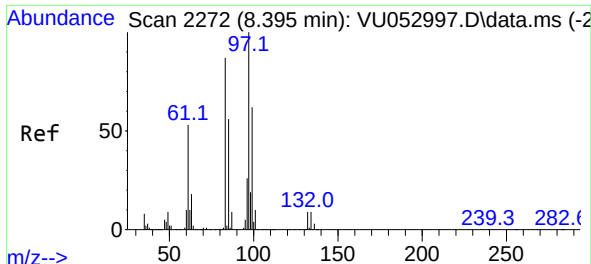
Tgt Ion: 91 Resp: 1600360
Ion Ratio Lower Upper
91 100
92 57.1 42.6 79.0



#44
trans-1,3-Dichloropropene
Concen: 0.840 ug/L
RT: 8.177 min Scan# 2204
Delta R.T. -0.029 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

Tgt Ion: 75 Resp: 3866
Ion Ratio Lower Upper
75 100
77 49.6 22.3 41.3#



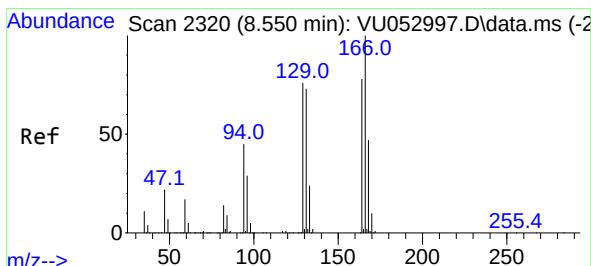
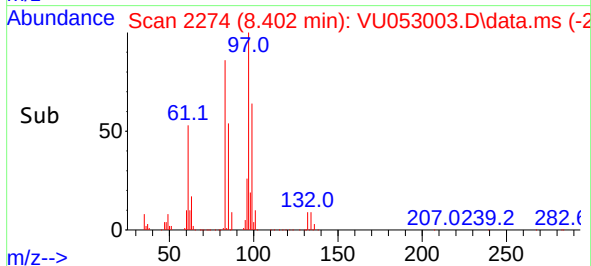
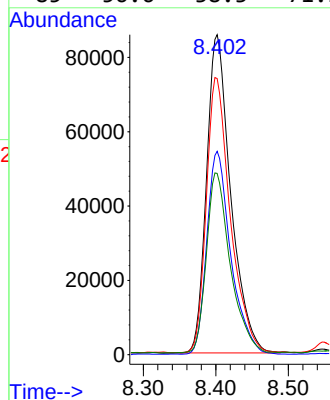
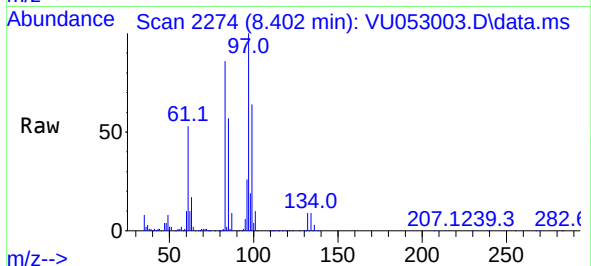


#45
1,1,2-Trichloroethane
Concen: 69.961 ug/L
RT: 8.402 min Scan# 21
Delta R.T. 0.007 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

Instrument :
MSVOA_U
ClientSampleId :
X3E95

Tgt Ion: 97 Resp: 198927

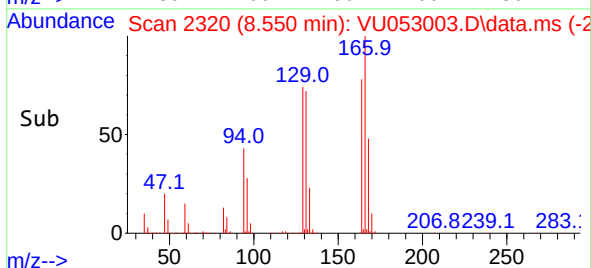
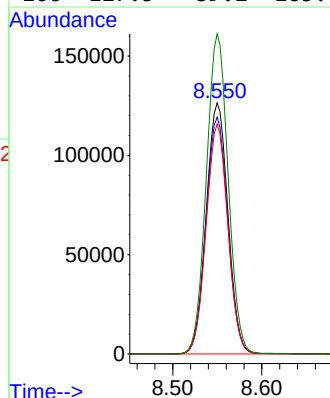
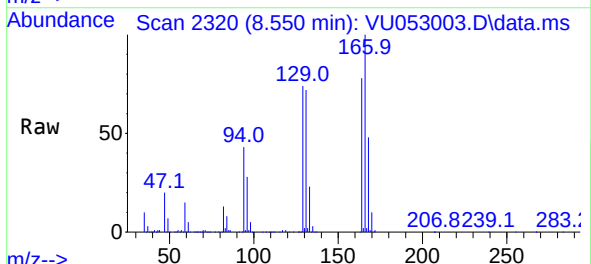
Ion	Ratio	Lower	Upper
97	100		
99	63.5	44.7	83.1
83	86.3	60.3	112.1
85	56.6	38.3	71.1

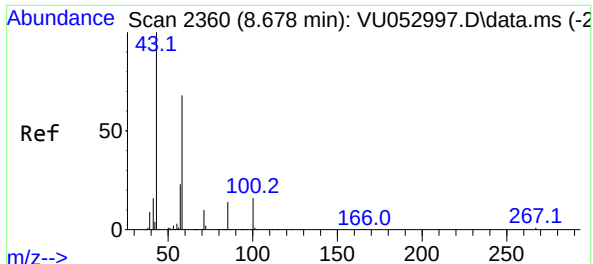


#46
Tetrachloroethene
Concen: 91.770 ug/L
RT: 8.550 min Scan# 2320
Delta R.T. 0.000 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

Tgt Ion: 164 Resp: 215216

Ion	Ratio	Lower	Upper
164	100		
129	94.3	64.8	120.3
131	91.6	61.2	113.6
166	127.5	89.2	165.8



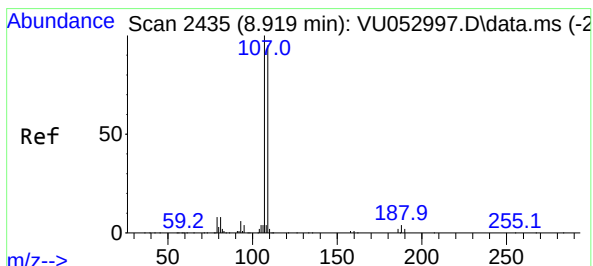
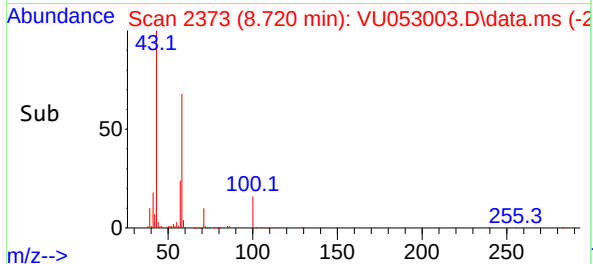
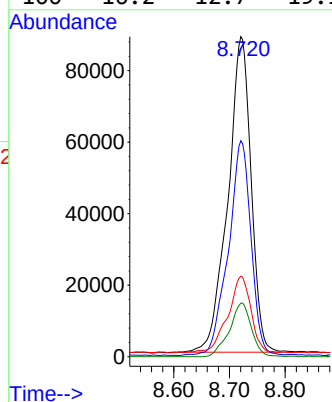
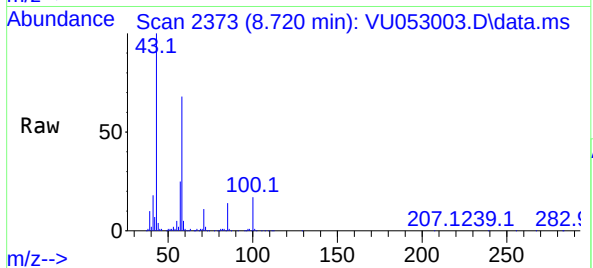


#48
2-Hexanone
Concen: 119.633 ug/L
RT: 8.720 min Scan# 21
Delta R.T. 0.042 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

Instrument :
MSVOA_U
ClientSampleId :
X3E95

Tgt Ion: 43 Resp: 254961

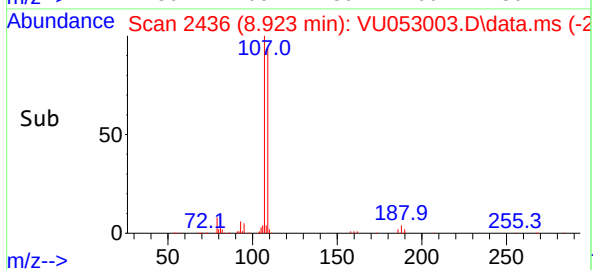
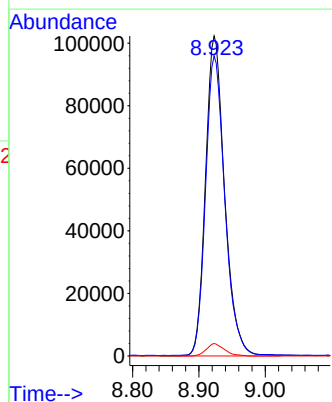
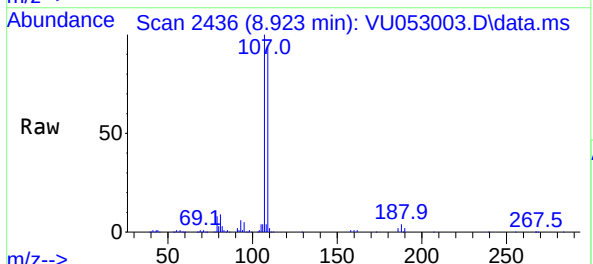
Ion	Ratio	Lower	Upper
43	100		
58	66.2	48.0	72.0
57	23.4	16.8	25.2
100	16.2	12.7	19.1

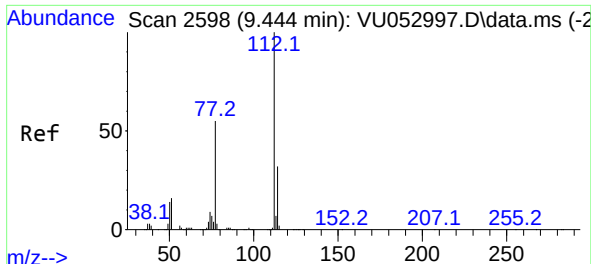


#50
1,2-Dibromoethane
Concen: 65.907 ug/L
RT: 8.923 min Scan# 2436
Delta R.T. 0.003 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

Tgt Ion: 107 Resp: 205016

Ion	Ratio	Lower	Upper
107	100		
109	93.8	65.5	121.6
188	3.9	3.2	4.8

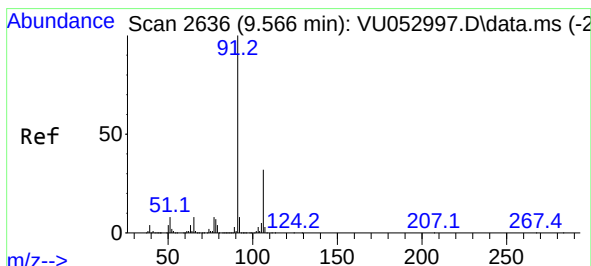
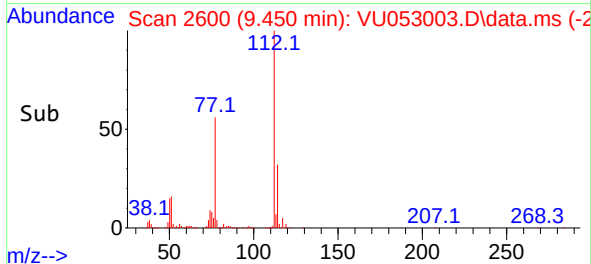
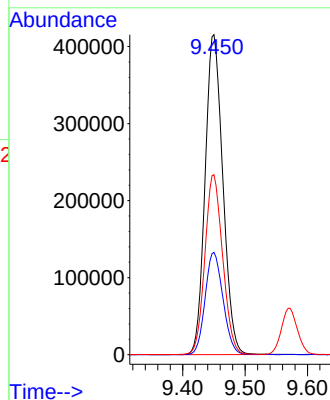
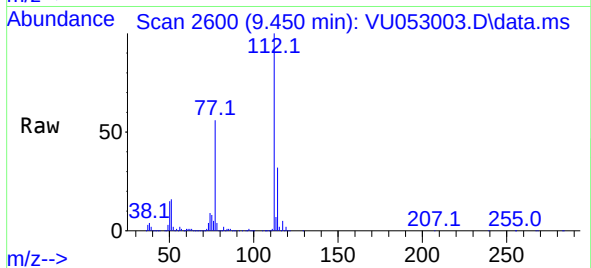




#51
Chlorobenzene
Concen: 103.673 ug/L
RT: 9.450 min Scan# 21
Delta R.T. 0.007 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

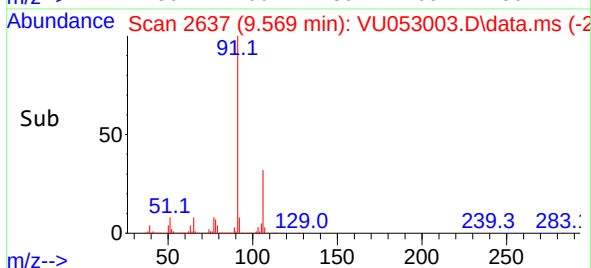
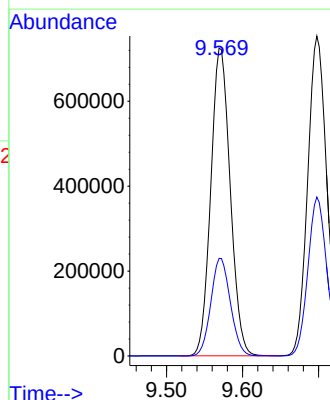
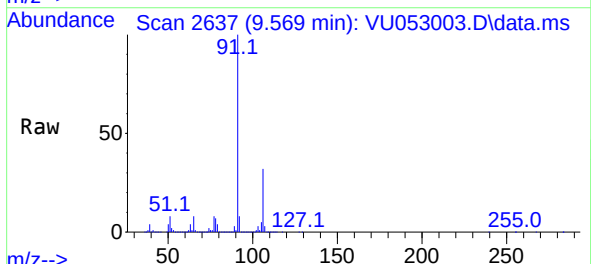
Instrument :
MSVOA_U
ClientSampleId :
X3E95

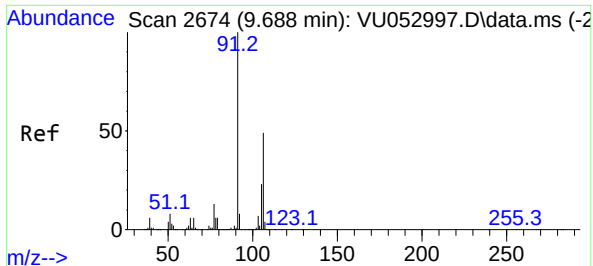
Tgt Ion:112 Resp: 822937
Ion Ratio Lower Upper
112 100
114 32.0 22.8 42.4
77 56.2 45.9 68.9



#52
Ethylbenzene
Concen: 94.909 ug/L
RT: 9.569 min Scan# 2637
Delta R.T. 0.003 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

Tgt Ion: 91 Resp: 1287621
Ion Ratio Lower Upper
91 100
106 31.7 22.0 40.8

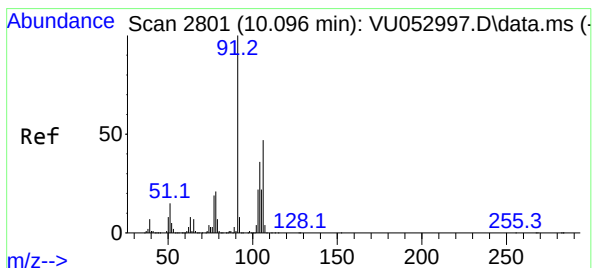
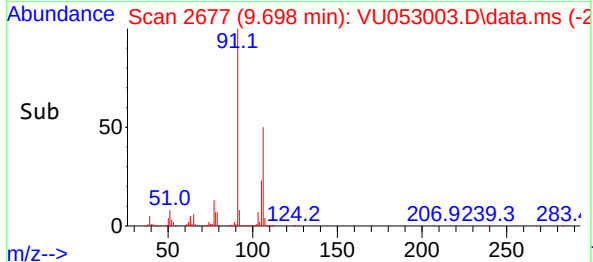
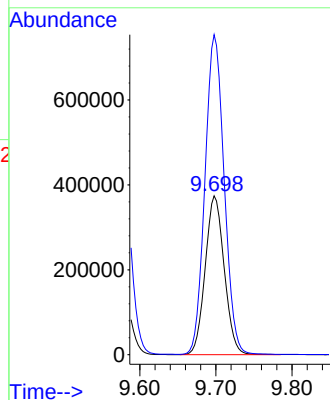
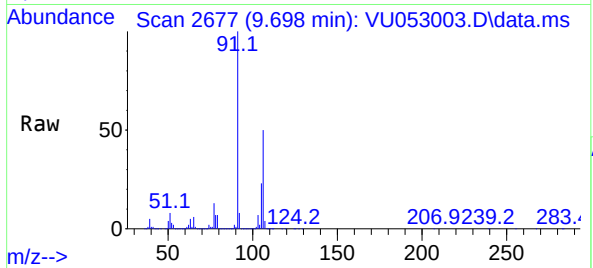




#53
m,p-Xylene
Concen: 120.911 ug/L
RT: 9.698 min Scan# 210
Delta R.T. 0.010 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

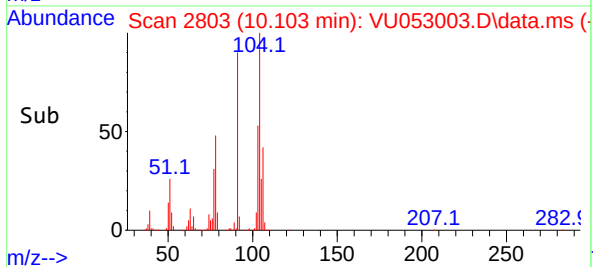
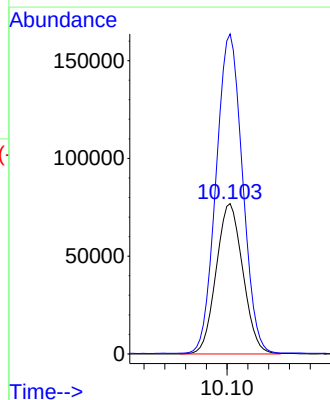
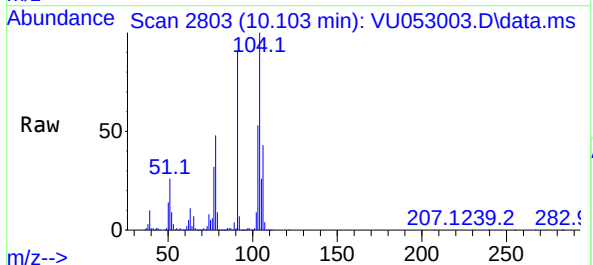
Instrument :
MSVOA_U
ClientSampleId :
X3E95

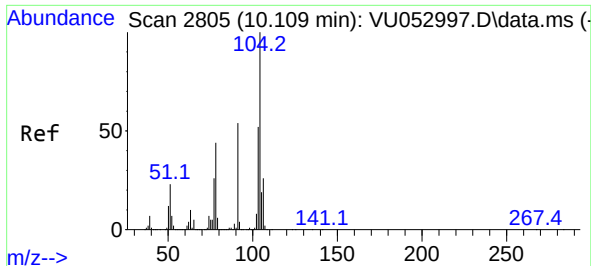
Tgt Ion:106 Resp: 648722
Ion Ratio Lower Upper
106 100
91 201.4 137.4 255.2



#54
o-xylene
Concen: 25.892 ug/L
RT: 10.103 min Scan# 2803
Delta R.T. 0.007 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

Tgt Ion:106 Resp: 137207
Ion Ratio Lower Upper
106 100
91 212.7 143.4 266.2

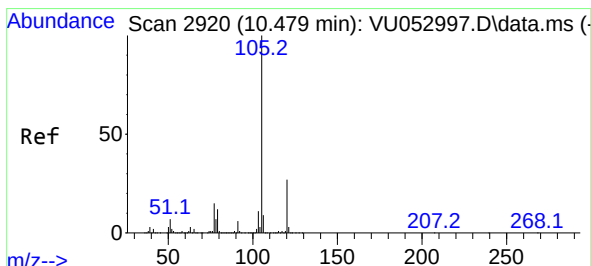
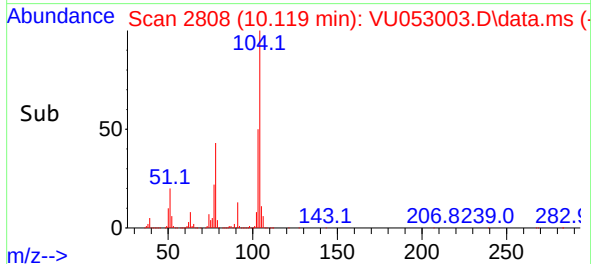
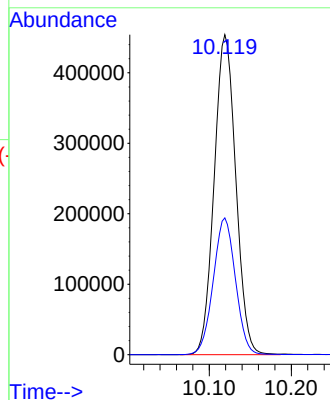
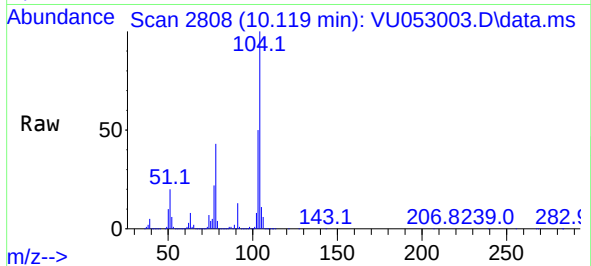




#55
Styrene
Concen: 93.210 ug/L
RT: 10.119 min Scan# 2805
Delta R.T. 0.010 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

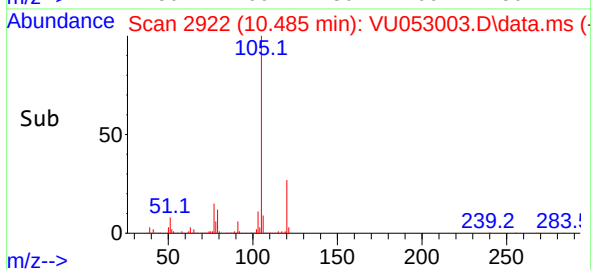
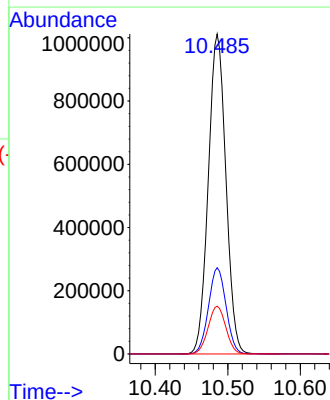
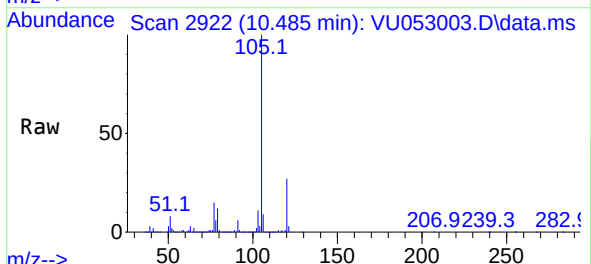
Instrument :
MSVOA_U
ClientSampleId :
X3E95

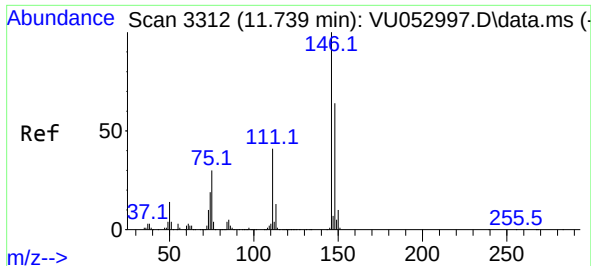
Tgt Ion:104 Resp: 833177
Ion Ratio Lower Upper
104 100
78 42.7 31.9 59.2



#61
Isopropylbenzene
Concen: 126.606 ug/L
RT: 10.485 min Scan# 2922
Delta R.T. 0.007 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

Tgt Ion:105 Resp: 1703264
Ion Ratio Lower Upper
105 100
120 26.9 21.4 32.2
77 15.0 12.2 18.2

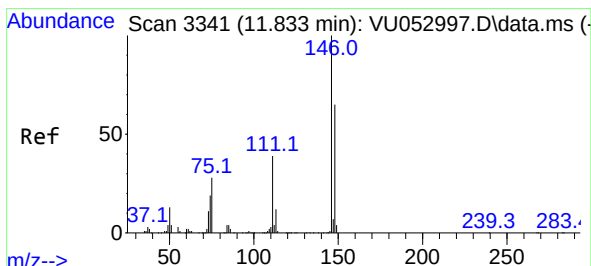
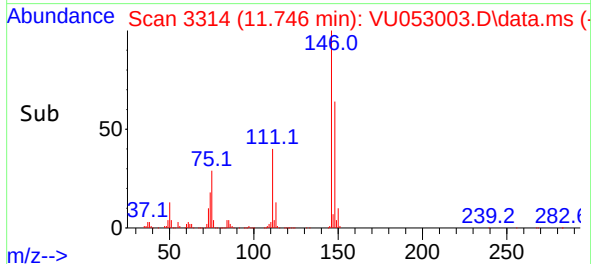
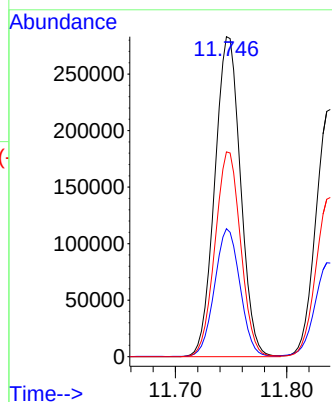
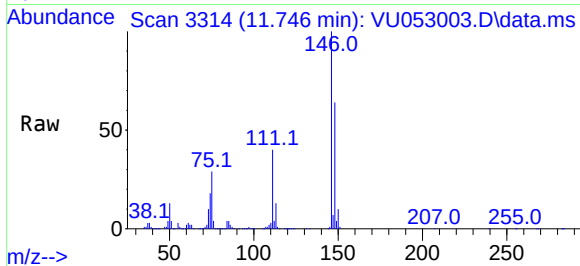




#64
1,3-Dichlorobenzene
Concen: 74.883 ug/L
RT: 11.746 min Scan# 3312
Delta R.T. 0.007 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

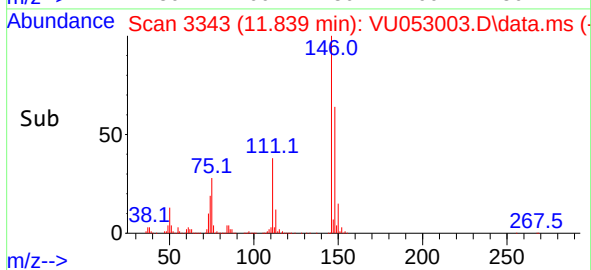
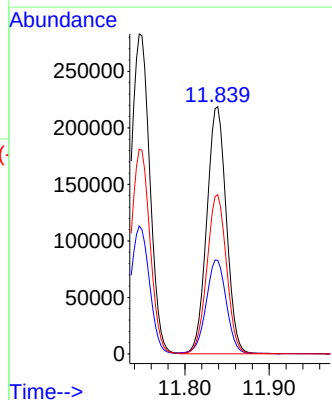
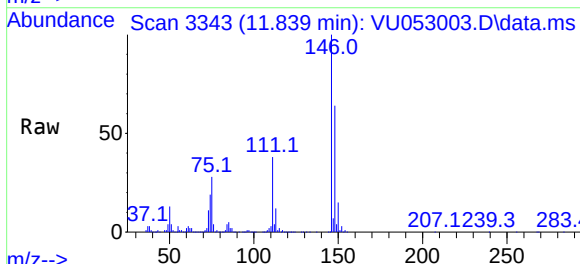
Instrument :
MSVOA_U
ClientSampleId :
X3E95

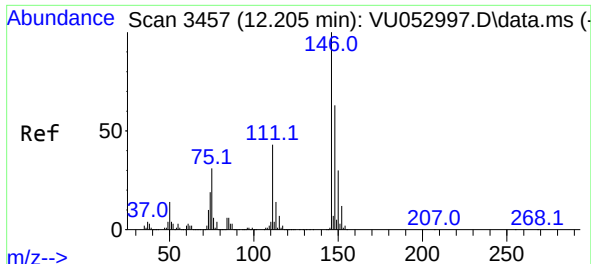
Tgt Ion:146 Resp: 454471
Ion Ratio Lower Upper
146 100
111 40.0 27.8 51.6
148 64.0 45.5 84.5



#65
1,4-Dichlorobenzene
Concen: 57.867 ug/L
RT: 11.839 min Scan# 3343
Delta R.T. 0.007 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

Tgt Ion:146 Resp: 353284
Ion Ratio Lower Upper
146 100
111 37.9 26.7 49.7
148 64.4 45.6 84.6

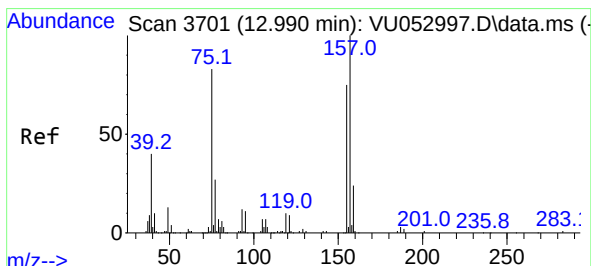
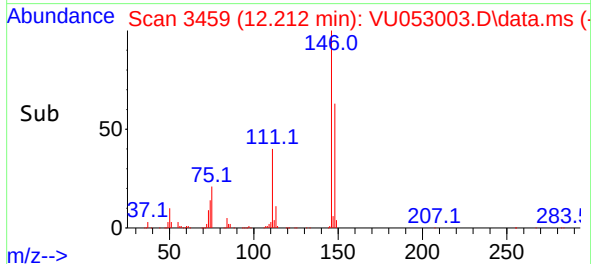
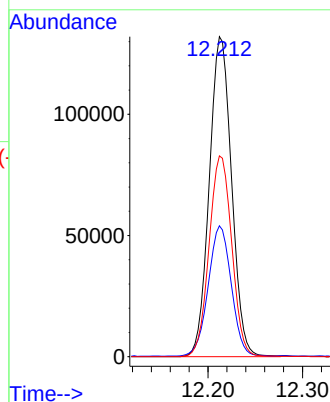
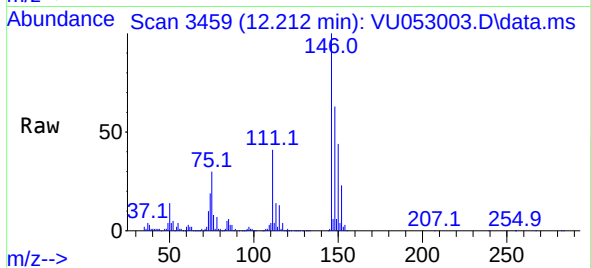




#67
1,2-Dichlorobenzene
Concen: 35.508 ug/L
RT: 12.212 min Scan# 3457
Delta R.T. 0.007 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

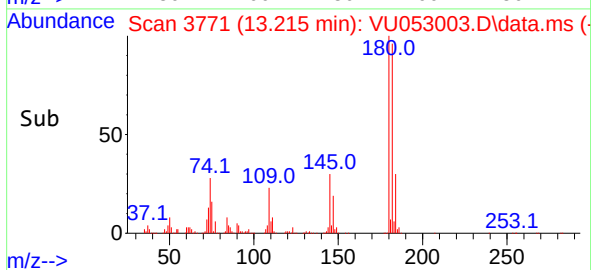
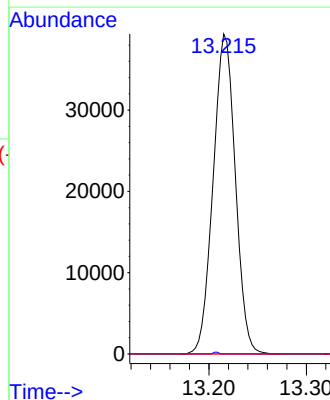
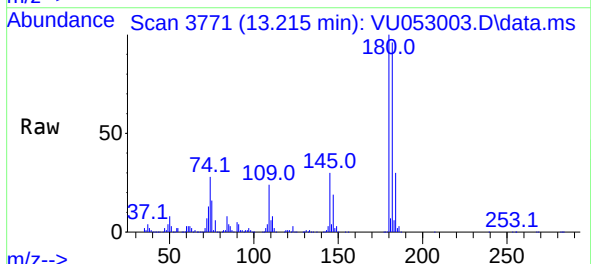
Instrument :
MSVOA_U
ClientSampleId :
X3E95

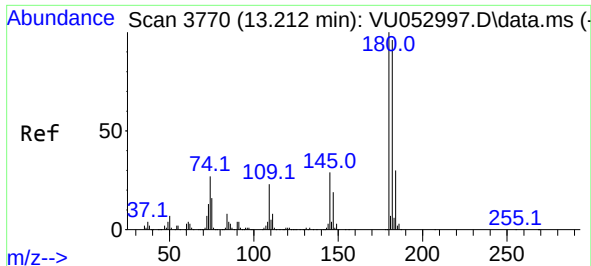
Tgt Ion:146 Resp: 216392
Ion Ratio Lower Upper
146 100
111 40.9 33.2 49.8
148 62.8 50.2 75.4



#68
1,2-Dibromo-3-chloropropane
Concen: 63.729 ug/L
RT: 13.215 min Scan# 3771
Delta R.T. 0.225 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

Tgt Ion: 75 Resp: 62232
Ion Ratio Lower Upper
75 100
155 0.5 69.2 103.8#
157 0.0 91.2 136.8#

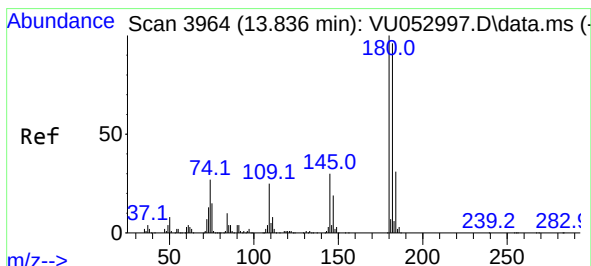
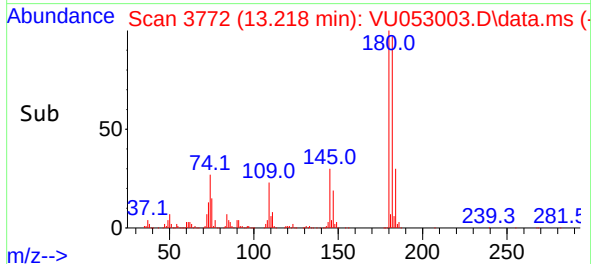
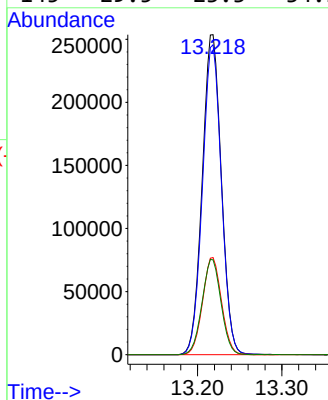
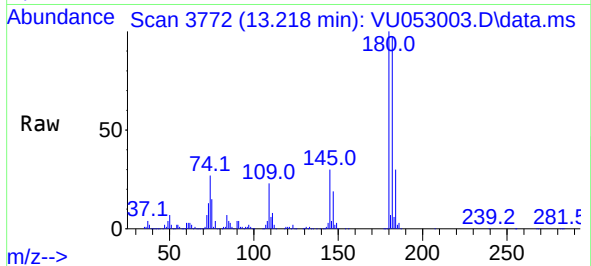




#69
1,3,5-Trichlorobenzene
Concen: 85.169 ug/L
RT: 13.218 min Scan# 3772
Delta R.T. 0.007 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

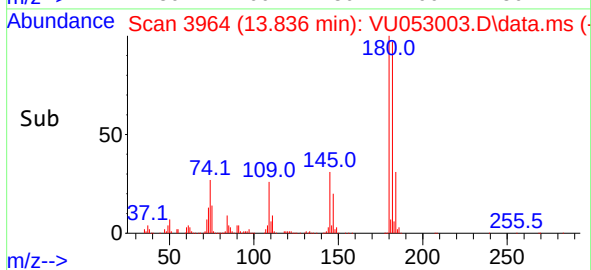
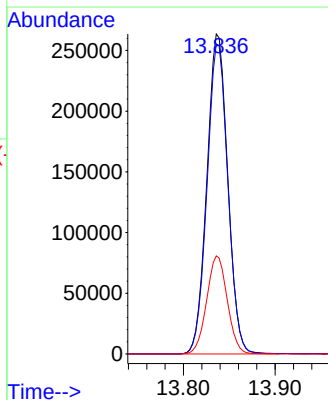
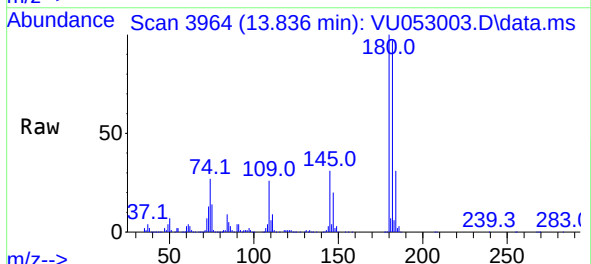
Instrument :
MSVOA_U
ClientSampleId :
X3E95

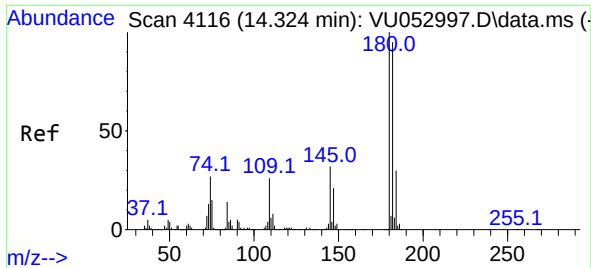
Tgt Ion:	180	Resp:	400599
Ion Ratio	Lower	Upper	
180	100		
182	95.7	77.0	115.6
184	30.0	24.4	36.6
145	29.5	23.3	34.9



#70
1,2,4-trichlorobenzene
Concen: 99.289 ug/L
RT: 13.836 min Scan# 3964
Delta R.T. 0.000 min
Lab File: VU053003.D
Acq: 08 Feb 2023 16:16

Tgt Ion:	180	Resp:	417229
Ion Ratio	Lower	Upper	
180	100		
182	96.6	78.2	117.2
145	30.3	23.4	35.2





#72
 1,2,3-Trichlorobenzene
 Concen: 70.836 ug/L
 RT: 14.324 min Scan# 4116
 Delta R.T. 0.000 min
 Lab File: VU053003.D
 Acq: 08 Feb 2023 16:16

Instrument :
 MSVOA_U
 ClientSampleId :
 X3E95

Tgt Ion:	180	Resp:	291755
Ion	Ratio	Lower	Upper
180	100		
182	96.0	77.5	116.3
145	31.8	24.2	36.4

