

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U092623\
 Data File : VU055523.D
 Acq On : 26 Sep 2023 17:51
 Operator : MD/SY
 Sample : 04610-08DL 2.5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 27 04:51:14 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR091923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Sep 27 04:44:22 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	271371	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	280439	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	150005	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	125580	4.579	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.600%
7) Chloroethane-d5	1.911	69	94216	3.898	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	78.000%
11) 1,1-Dichloroethene-d2	2.563	65	51657	4.576	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.600%
20) 2-Butanone-d5	4.624	46	216057	43.613	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	87.220%
24) Chloroform-d	5.058	84	222399	4.483	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.600%
26) 1,2-Dichloroethane-d4	5.698	65	105682	4.429	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.600%
32) Benzene-d6	5.724	84	450506	4.593	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.800%
36) 1,2-Dichloropropane-d6	6.688	67	137344	4.686	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.800%
41) Toluene-d8	7.894	98	388114	4.341	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.800%
43) trans-1,3-Dichloroprop...	8.180	79	49149	4.779	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.600%
46) 2-Hexanone-d5	8.630	63	139370	44.549	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	89.100%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	100339	4.568	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.400%
66) 1,2-Dichlorobenzene-d4	12.190	152	145135	4.794	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	116151	4.632	ug/L	100
12) 1,1-Dichloroethene	2.576	96	130092	6.856	ug/L	89
16) Methylene chloride	3.039	84	254861	11.212	ug/L	98
18) trans-1,2-Dichloroethene	3.351	96	154546	8.081	ug/L	97
22) cis-1,2-Dichloroethene	4.663	96	65043	2.934	ug/L	98
27) 1,2-Dichloroethane	5.788	62	32523	1.416	ug/L #	93
29) 1,1,1-Trichloroethane	5.312	97	221843	6.939	ug/L	98
31) Carbon tetrachloride	5.521	117	162793	5.941	ug/L	98
33) Benzene	5.769	78	775003	9.602	ug/L	100
34) Trichloroethene	6.541	95	56542	2.476	ug/L	99
35) Methylcyclohexane	6.688	83	33580	1.021	ug/L #	20
37) 1,2-Dichloropropane	6.788	63	157235	7.449	ug/L	99
42) Toluene	7.965	91	867946	10.081	ug/L	100
45) 1,1,2-Trichloroethane	8.396	97	30190	2.040	ug/L	97
47) Tetrachloroethene	8.550	164	120972	7.386	ug/L	98
48) 2-Hexanone	8.682	43	24794	3.341	ug/L #	87
49) Dibromochloromethane	8.550	129	119925	7.729	ug/L #	9
51) Chlorobenzene	9.444	112	347913	6.309	ug/L	98
52) Ethylbenzene	9.566	91	839060	9.091	ug/L	97

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

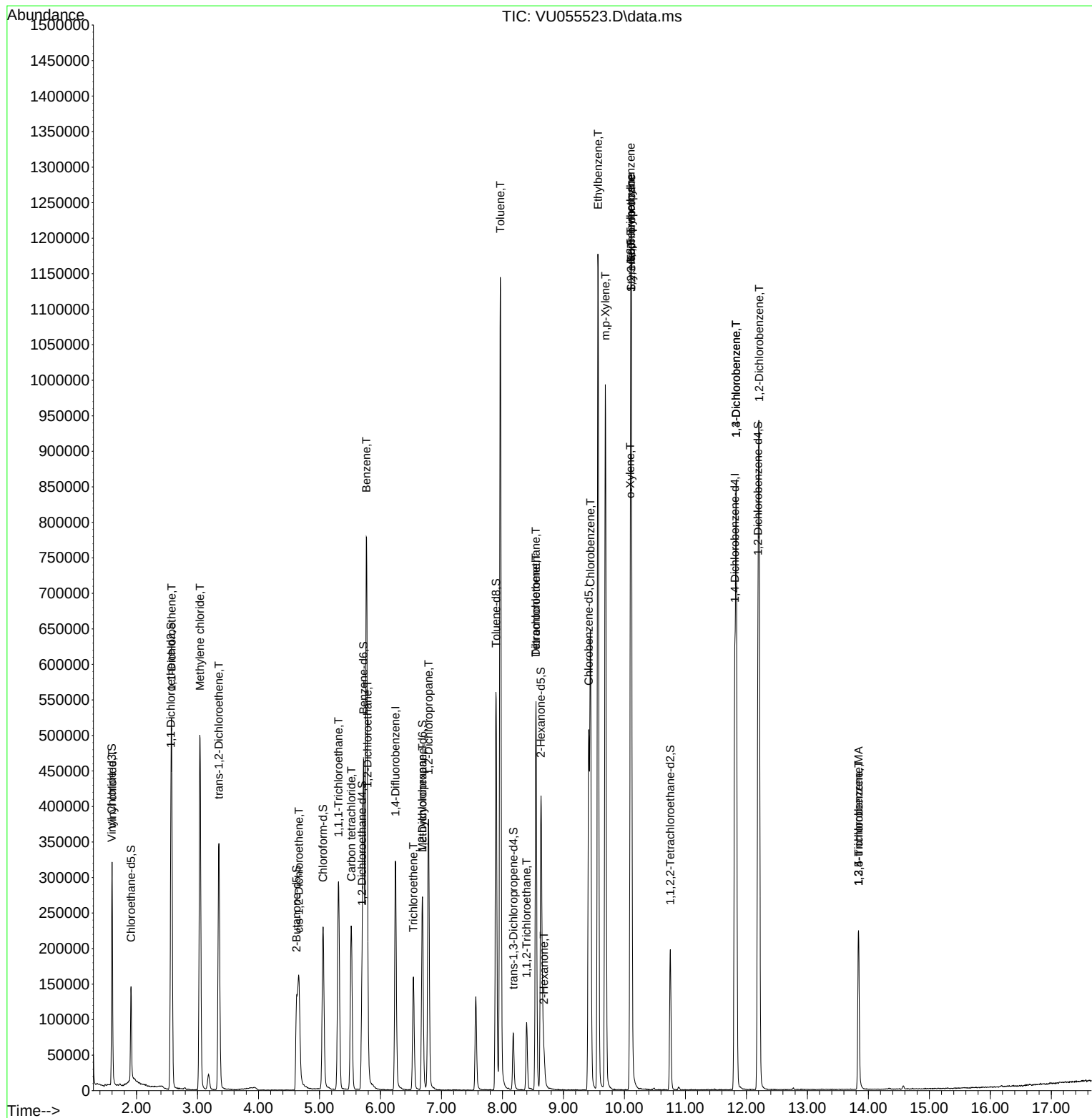
53) m,p-Xylene	9.688	106	284686	8.230	ug/L	98
54) o-Xylene	10.097	106	109526	3.257	ug/L	98
55) Styrene	10.113	104	560302	10.304	ug/L	98
60) Isopropylbenzene	10.103	105	92368	1.068	ug/L #	1
61) 1,2,3-Trichloropropane	10.113	75	24264	2.072	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.103	105	92368	1.336	ug/L #	30
64) 1,3-Dichlorobenzene	11.833	146	333986	8.069	ug/L	99
65) 1,4-Dichlorobenzene	11.833	146	333986	8.073	ug/L	99
67) 1,2-Dichlorobenzene	12.209	146	335334	8.837	ug/L	99
69) 1,3,5-Trichlorobenzene	13.839	180	74551	2.615	ug/L	99
70) 1,2,4-trichlorobenzene	13.839	180	74551	3.431	ug/L	98

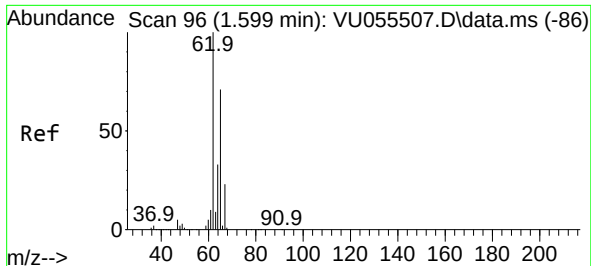
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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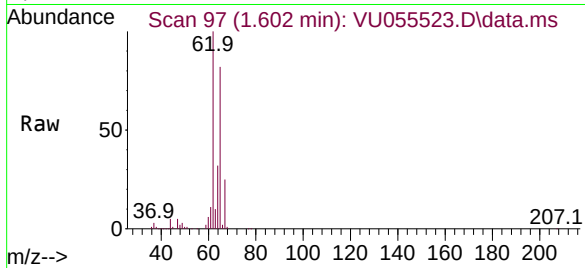
Quant Time: Sep 27 04:51:14 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR091923WMA.M
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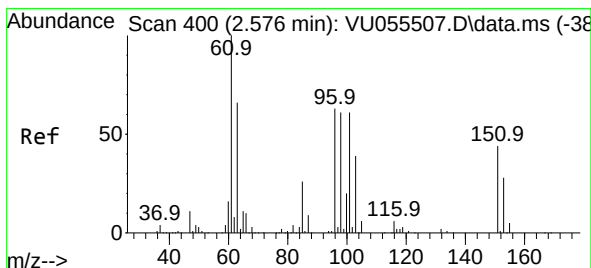
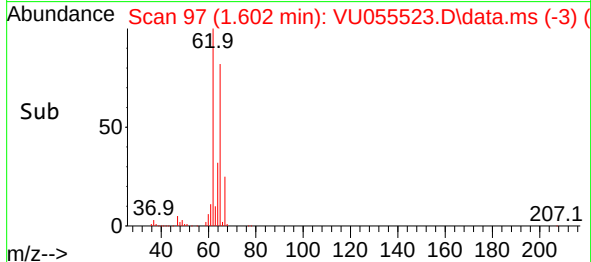
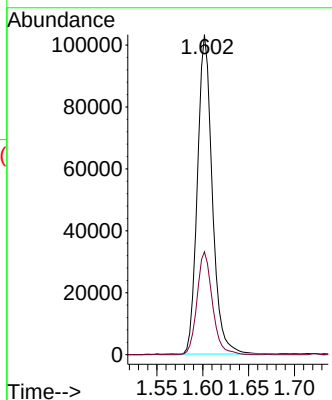


#5
 Vinyl chloride
 Concen: 4.632 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. 0.003 min
 Lab File: VU055523.D
 Acq: 26 Sep 2023 17:51

Instrument :
 MSVOA_U
 ClientSampleId :

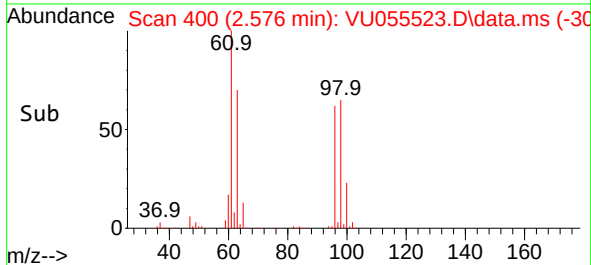
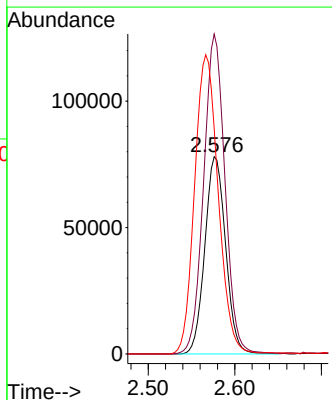
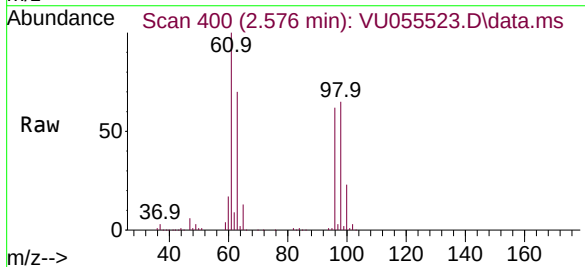


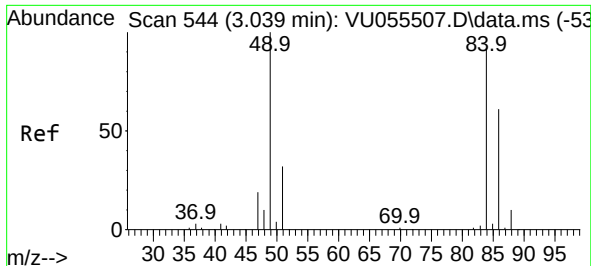
Tgt Ion: 62 Resp: 116151
 Ion Ratio Lower Upper
 62 100
 64 32.1 22.3 41.5



#12
 1,1-Dichloroethene
 Concen: 6.856 ug/L
 RT: 2.576 min Scan# 400
 Delta R.T. -0.000 min
 Lab File: VU055523.D
 Acq: 26 Sep 2023 17:51

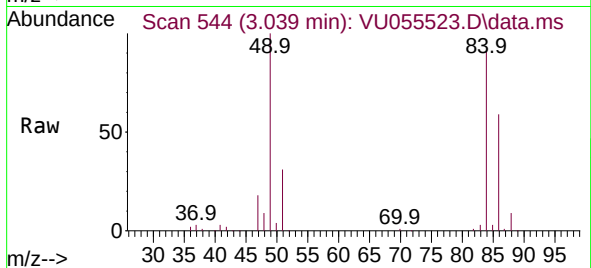
Tgt Ion: 96 Resp: 130092
 Ion Ratio Lower Upper
 96 100
 61 162.1 114.5 212.7
 63 114.1 98.3 182.5



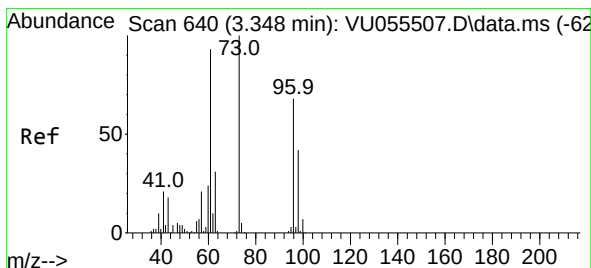
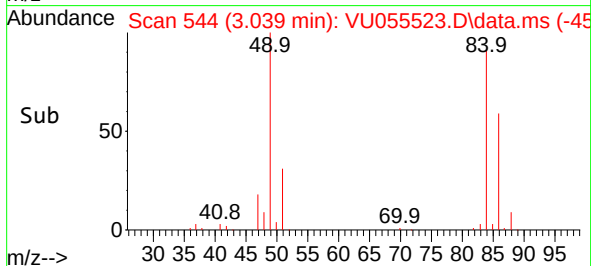
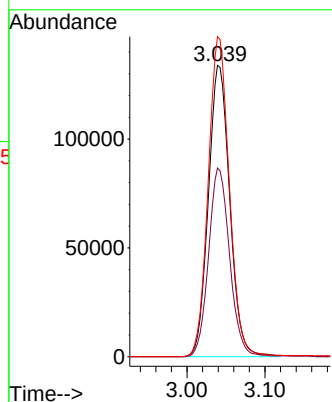


#16
Methylene chloride
Concen: 11.212 ug/L
RT: 3.039 min Scan# 544
Delta R.T. -0.000 min
Lab File: VU055523.D
Acq: 26 Sep 2023 17:51

Instrument :
MSVOA_U
ClientSampleId :

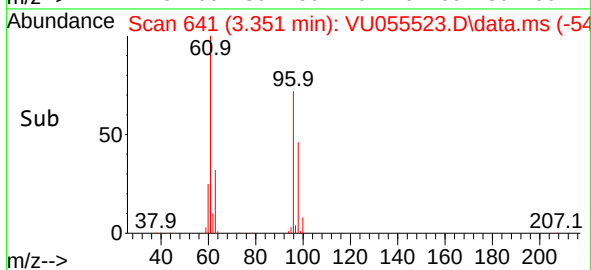
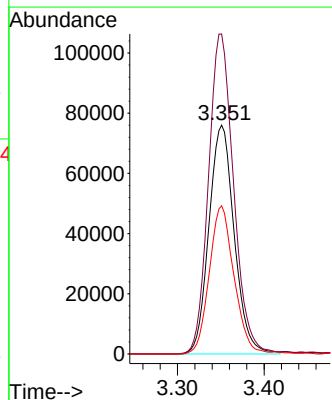
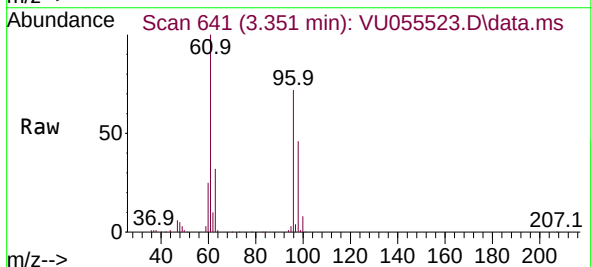


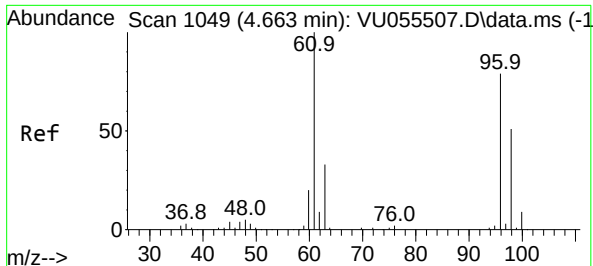
Tgt Ion: 84 Resp: 254861
Ion Ratio Lower Upper
84 100
86 64.7 44.9 83.3
49 109.8 78.8 146.3



#18
trans-1,2-Dichloroethene
Concen: 8.081 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU055523.D
Acq: 26 Sep 2023 17:51

Tgt Ion: 96 Resp: 154546
Ion Ratio Lower Upper
96 100
61 139.8 94.6 175.6
98 64.7 45.7 84.9

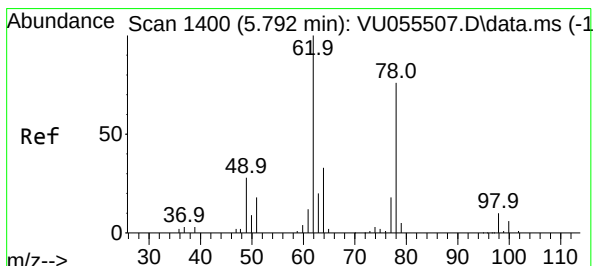
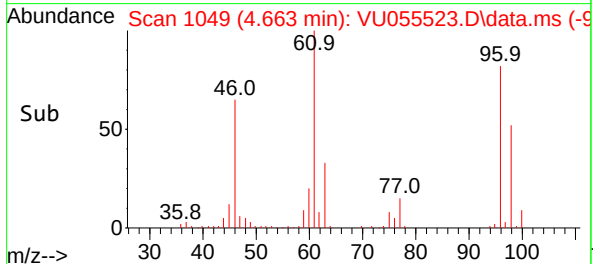
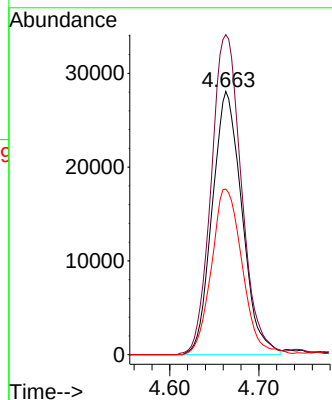
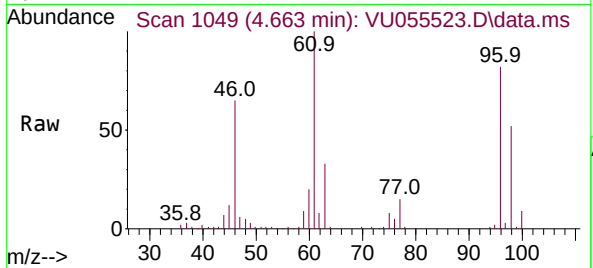




#22
 cis-1,2-Dichloroethene
 Concen: 2.934 ug/L
 RT: 4.663 min Scan# 1049
 Delta R.T. -0.000 min
 Lab File: VU055523.D
 Acq: 26 Sep 2023 17:51

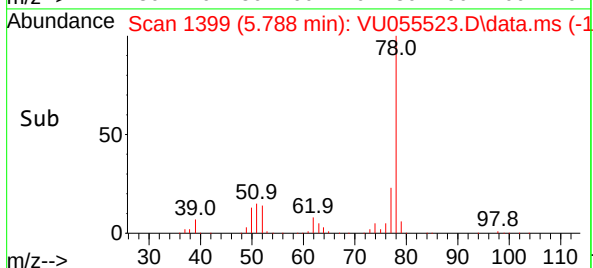
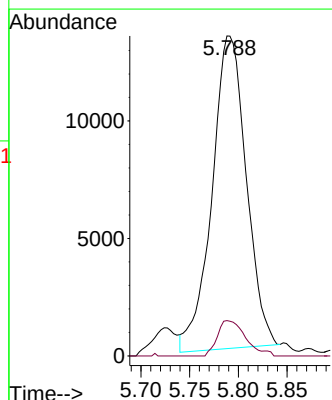
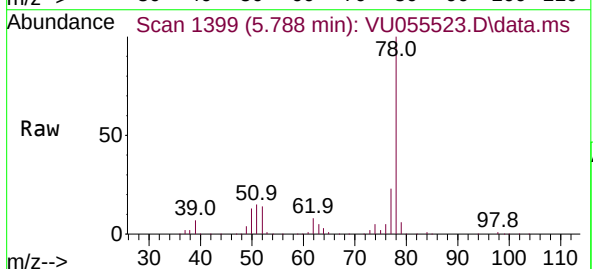
Instrument :
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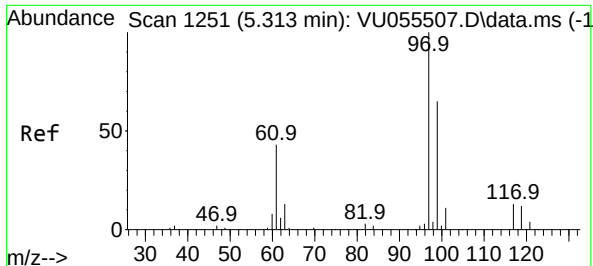
Tgt Ion: 96 Resp: 65043
 Ion Ratio Lower Upper
 96 100
 61 121.6 87.8 163.2
 98 63.0 44.4 82.4



#27
 1,2-Dichloroethane
 Concen: 1.416 ug/L
 RT: 5.788 min Scan# 1399
 Delta R.T. -0.004 min
 Lab File: VU055523.D
 Acq: 26 Sep 2023 17:51

Tgt Ion: 62 Resp: 32523
 Ion Ratio Lower Upper
 62 100
 98 11.0 7.0 10.4#

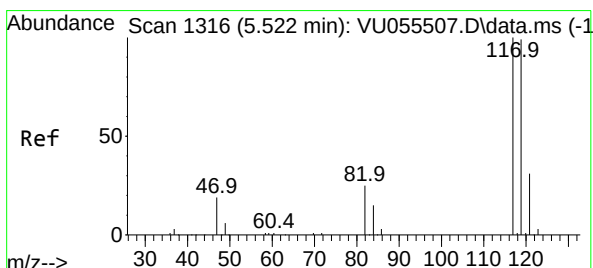
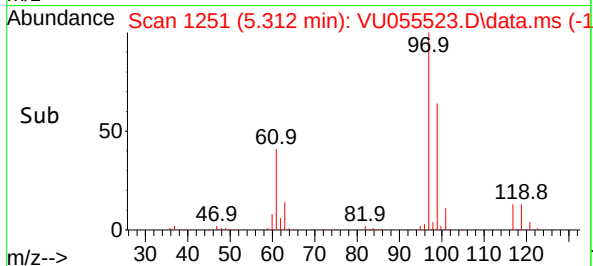
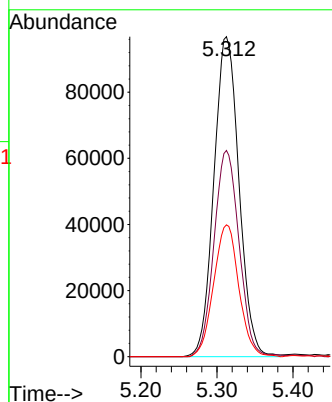
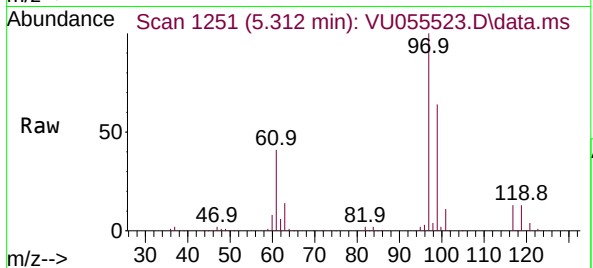




#29
1,1,1-Trichloroethane
Concen: 6.939 ug/L
RT: 5.312 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VU055523.D
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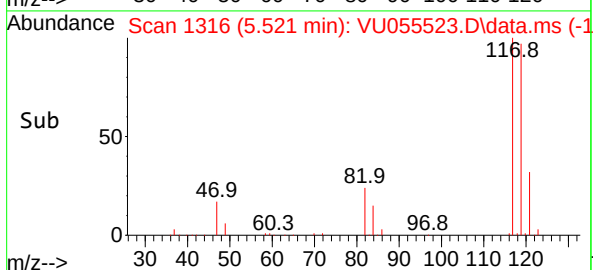
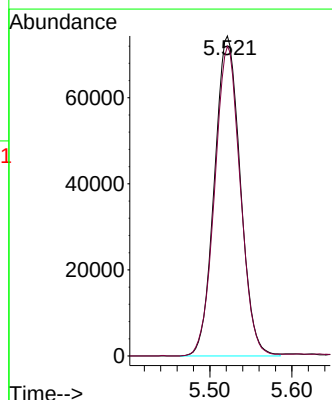
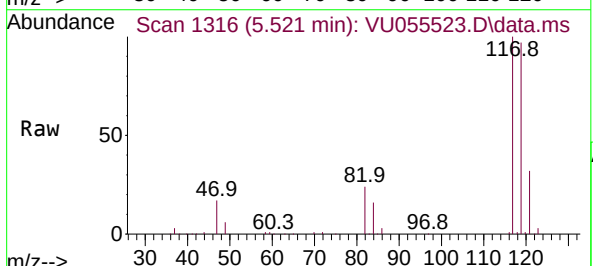
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ClientSampleId :

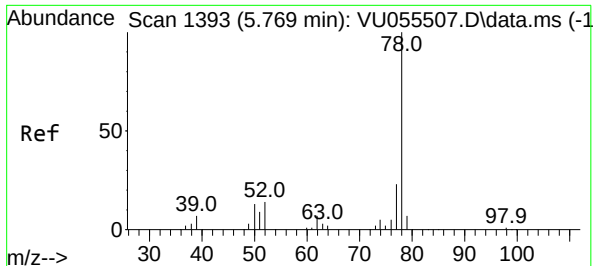
Tgt Ion: 97 Resp: 221843
Ion Ratio Lower Upper
97 100
99 64.2 50.7 76.1
61 41.4 34.6 51.8



#31
Carbon tetrachloride
Concen: 5.941 ug/L
RT: 5.521 min Scan# 1316
Delta R.T. -0.000 min
Lab File: VU055523.D
Acq: 26 Sep 2023 17:51

Tgt Ion: 117 Resp: 162793
Ion Ratio Lower Upper
117 100
119 96.0 75.2 112.8

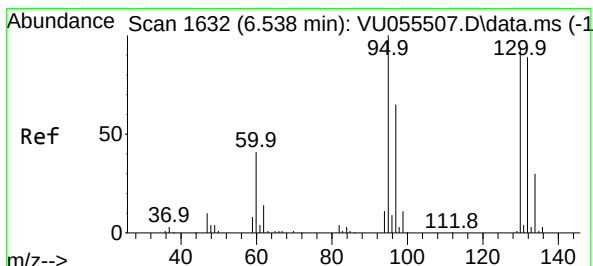
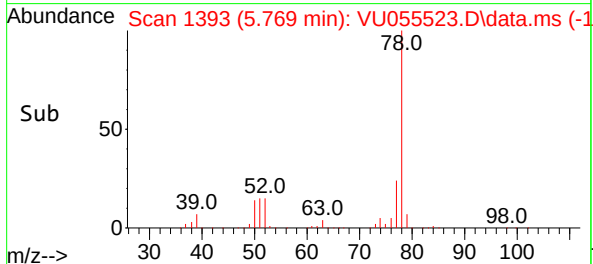
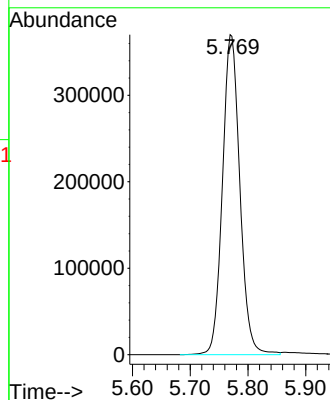
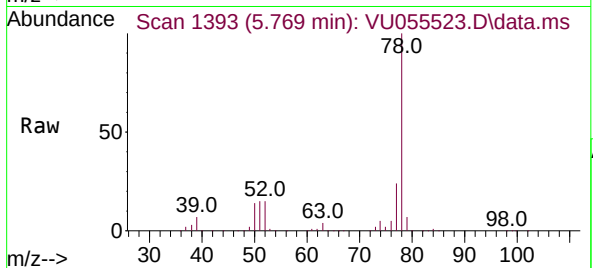




#33
Benzene
Concen: 9.602 ug/L
RT: 5.769 min Scan# 1393
Delta R.T. -0.000 min
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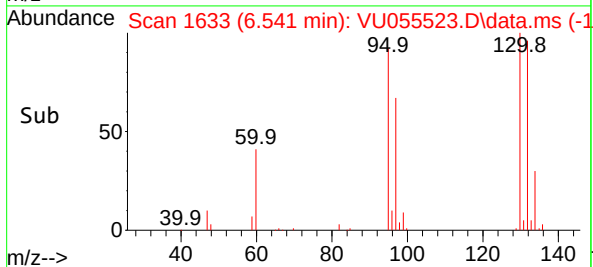
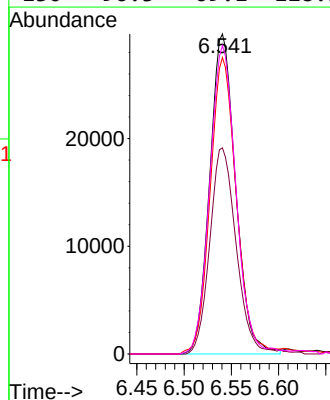
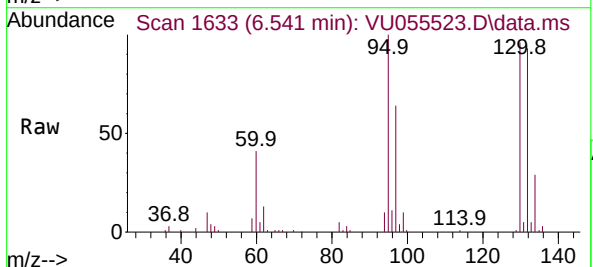
Tgt Ion: 78 Resp: 775003

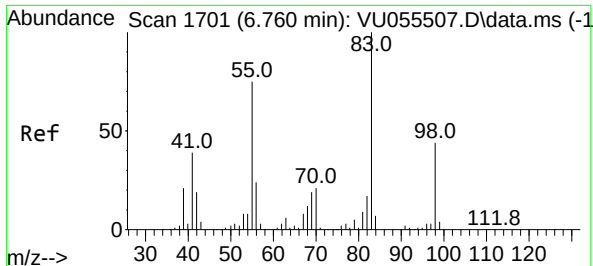


#34
Trichloroethene
Concen: 2.476 ug/L
RT: 6.541 min Scan# 1633
Delta R.T. 0.003 min
Lab File: VU055523.D
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Tgt Ion: 95 Resp: 56542

Ion	Ratio	Lower	Upper
95	100		
97	64.4	45.4	84.2
132	92.6	65.2	121.2
130	96.3	69.1	128.3

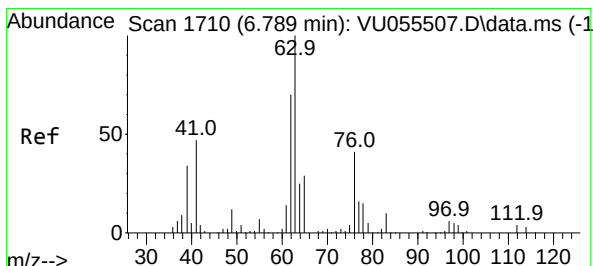
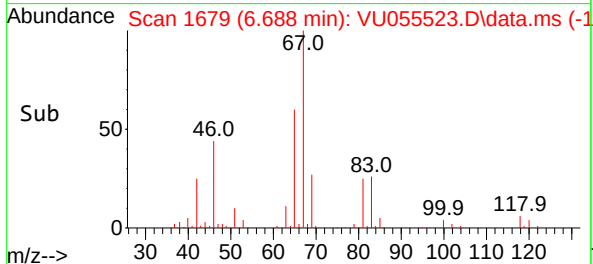
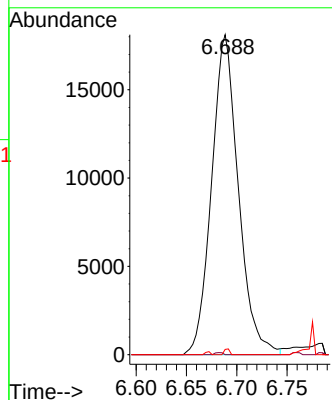
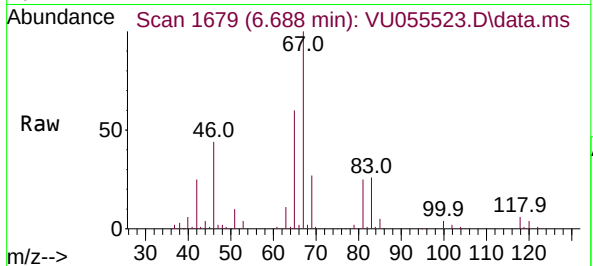




#35
Methylcyclohexane
Concen: 1.021 ug/L
RT: 6.688 min Scan# 1
Delta R.T. -0.071 min
Lab File: VU055523.D
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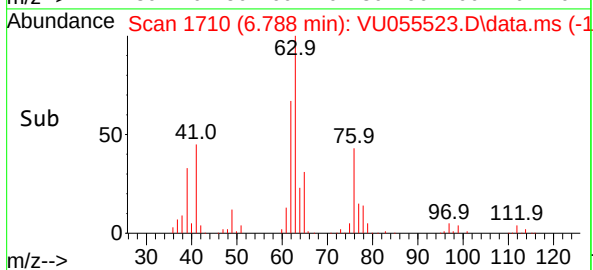
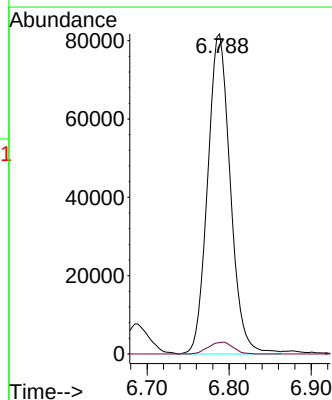
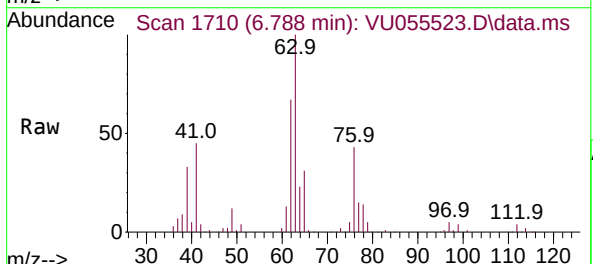
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MSVOA_U
ClientSampleId :

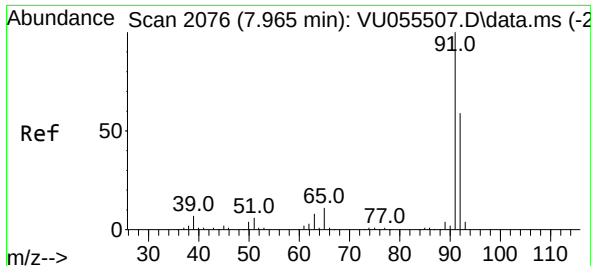
Tgt Ion: 83 Resp: 33580
Ion Ratio Lower Upper
83 100
55 0.2 59.1 88.7#
98 0.4 36.3 54.5#



#37
1,2-Dichloropropane
Concen: 7.449 ug/L
RT: 6.788 min Scan# 1710
Delta R.T. -0.000 min
Lab File: VU055523.D
Acq: 26 Sep 2023 17:51

Tgt Ion: 63 Resp: 157235
Ion Ratio Lower Upper
63 100
112 4.0 3.0 4.6

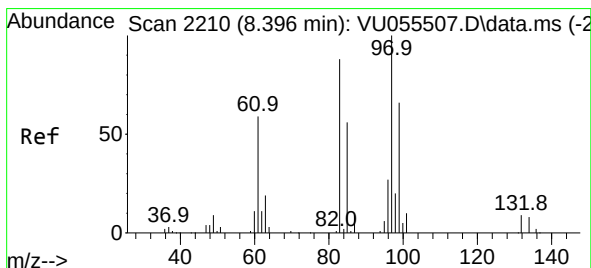
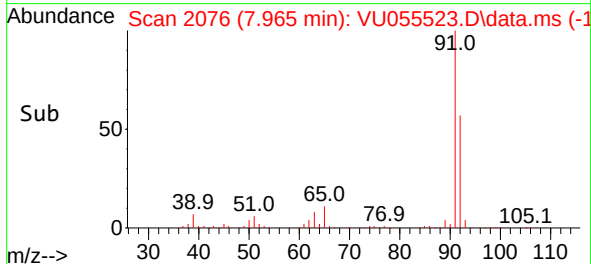
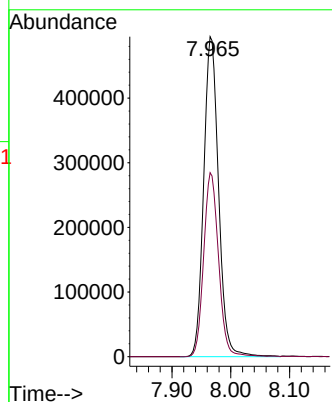
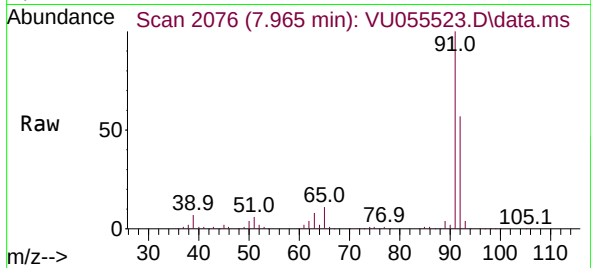




#42
Toluene
Concen: 10.081 ug/L
RT: 7.965 min Scan# 2076
Delta R.T. -0.000 min
Lab File: VU055523.D
Acq: 26 Sep 2023 17:51

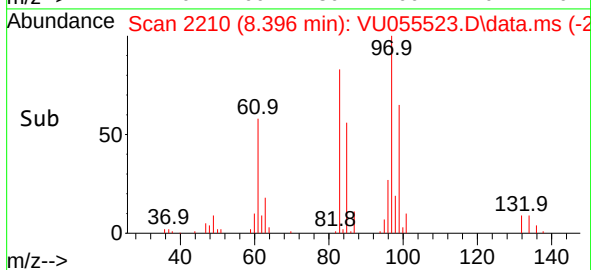
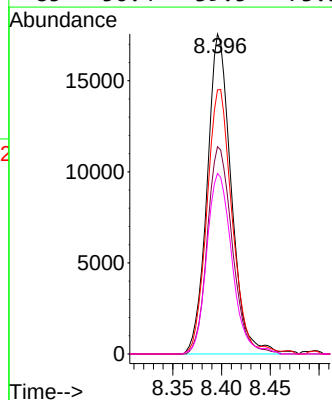
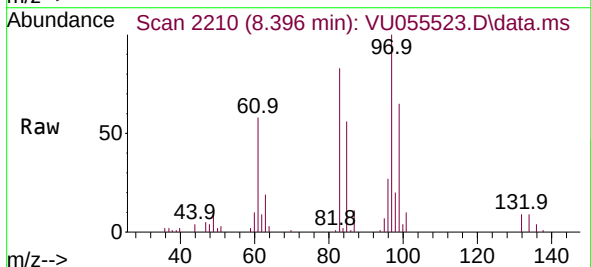
Instrument :
MSVOA_U
ClientSampleId :

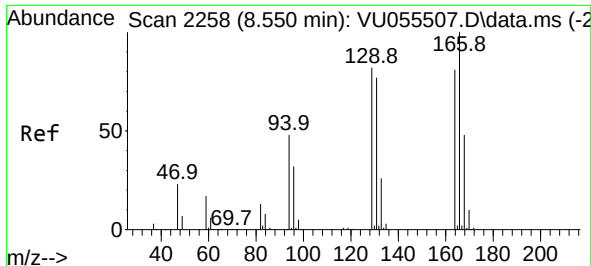
Tgt Ion: 91 Resp: 867946
Ion Ratio Lower Upper
91 100
92 57.5 40.3 74.8



#45
1,1,2-Trichloroethane
Concen: 2.040 ug/L
RT: 8.396 min Scan# 2210
Delta R.T. -0.000 min
Lab File: VU055523.D
Acq: 26 Sep 2023 17:51

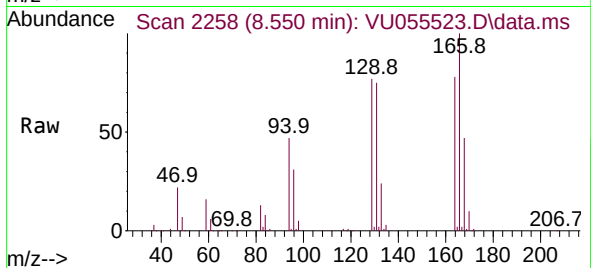
Tgt Ion: 97 Resp: 30190
Ion Ratio Lower Upper
97 100
99 64.7 44.1 81.9
83 82.5 61.5 114.1
85 56.4 39.5 73.3



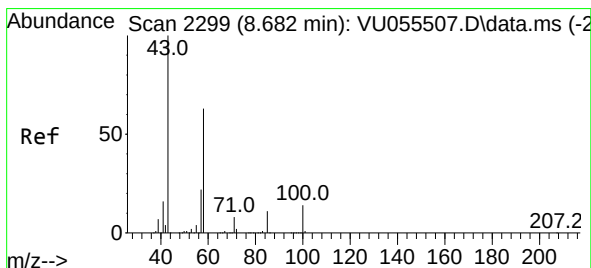
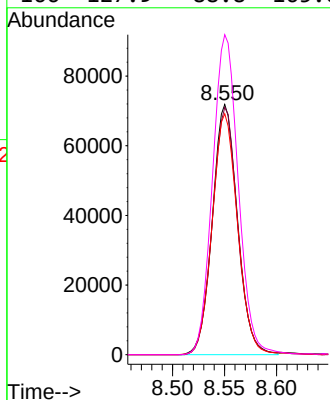
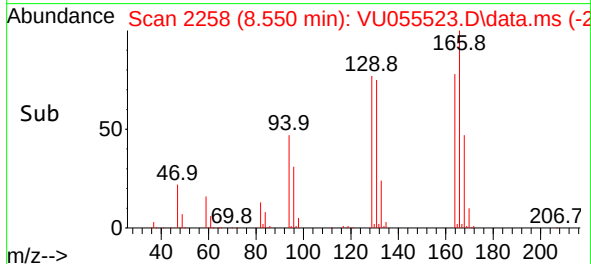


#47
Tetrachloroethene
Concen: 7.386 ug/L
RT: 8.550 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU055523.D
Acq: 26 Sep 2023 17:51

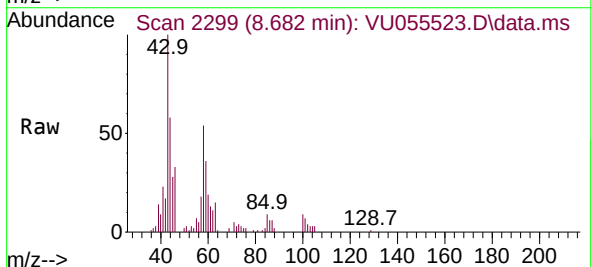
Instrument :
MSVOA_U
ClientSampleId :



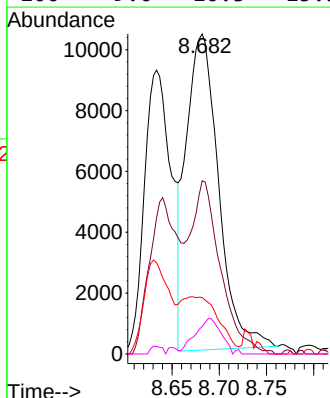
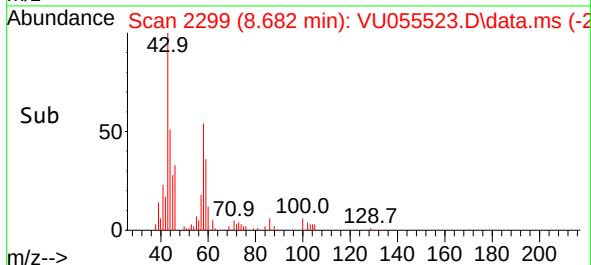
Tgt Ion:164 Resp: 120972
Ion Ratio Lower Upper
164 100
129 98.8 67.4 125.2
131 96.3 66.4 123.2
166 127.9 88.8 165.0

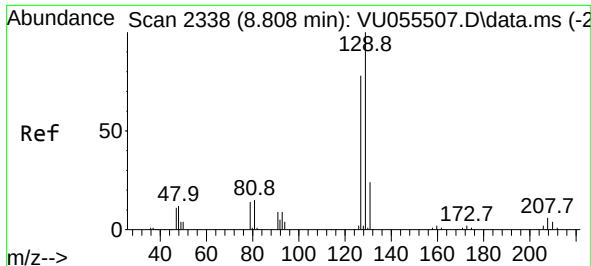


#48
2-Hexanone
Concen: 3.341 ug/L
RT: 8.682 min Scan# 2299
Delta R.T. -0.000 min
Lab File: VU055523.D
Acq: 26 Sep 2023 17:51



Tgt Ion: 43 Resp: 24794
Ion Ratio Lower Upper
43 100
58 47.5 48.5 72.7#
57 20.7 17.0 25.4
100 9.0 10.3 15.5#

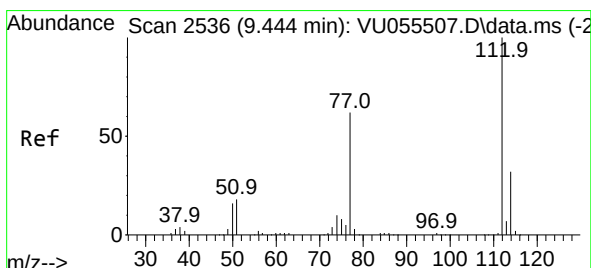
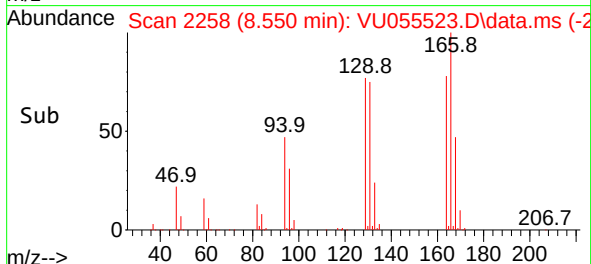
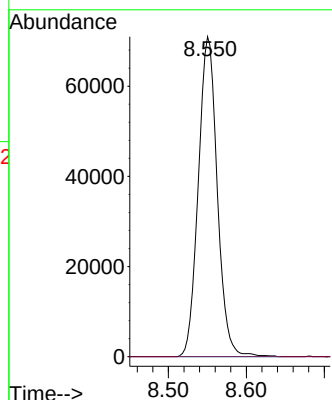
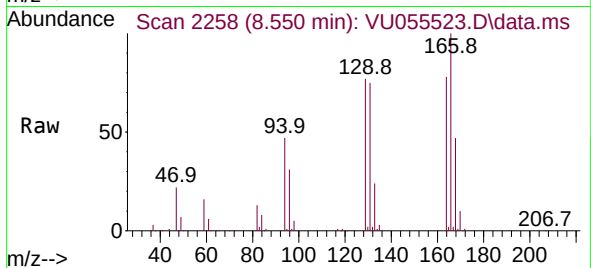




#49
Dibromochloromethane
Concen: 7.729 ug/L
RT: 8.550 min Scan# 21
Delta R.T. -0.258 min
Lab File: VU055523.D
Acq: 26 Sep 2023 17:51

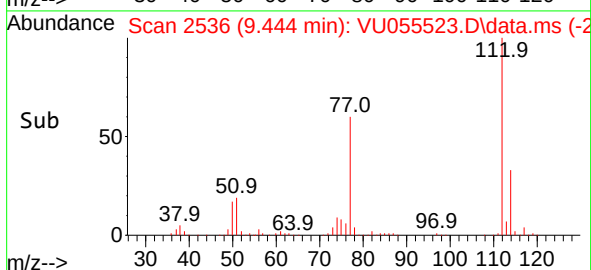
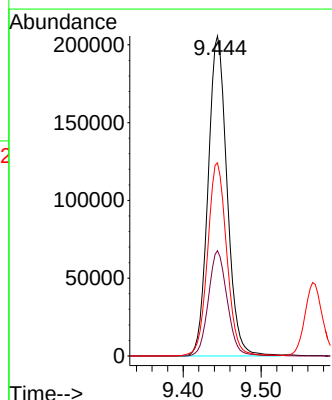
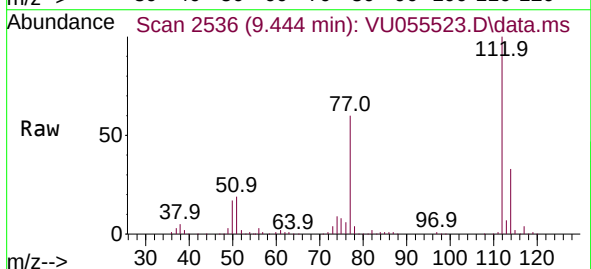
Instrument :
MSVOA_U
ClientSampleId :

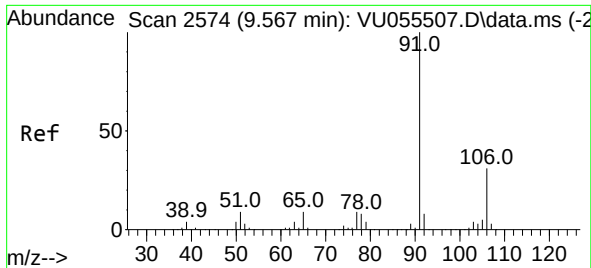
Tgt Ion:129 Resp: 119925
Ion Ratio Lower Upper
129 100
127 0.0 56.8 105.6#



#51
Chlorobenzene
Concen: 6.309 ug/L
RT: 9.444 min Scan# 2536
Delta R.T. -0.000 min
Lab File: VU055523.D
Acq: 26 Sep 2023 17:51

Tgt Ion:112 Resp: 347913
Ion Ratio Lower Upper
112 100
114 32.9 22.0 40.8
77 60.4 46.9 70.3

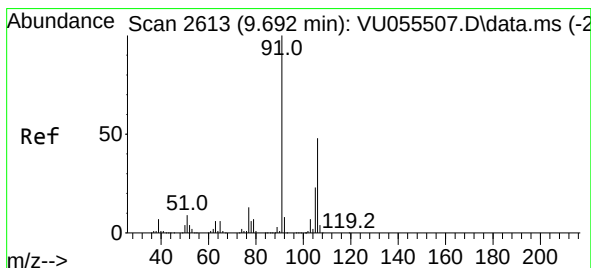
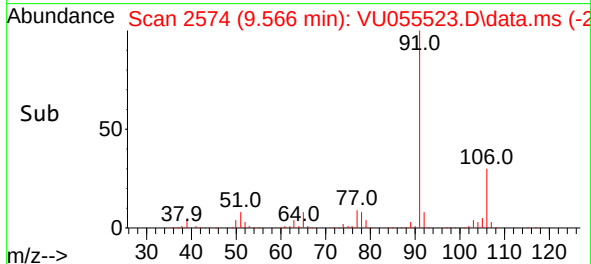
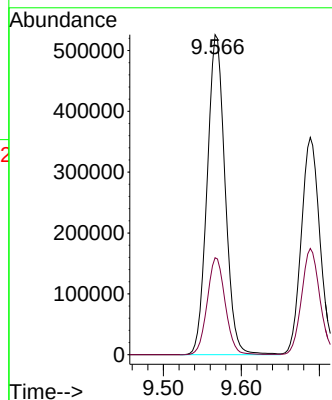
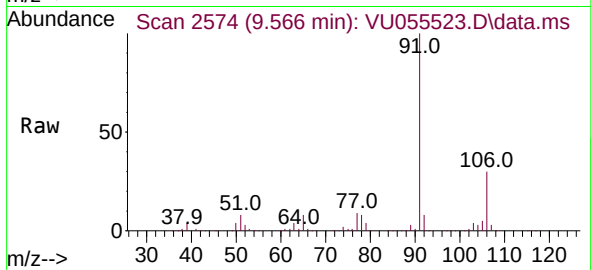




#52
Ethylbenzene
Concen: 9.091 ug/L
RT: 9.566 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU055523.D
Acq: 26 Sep 2023 17:51

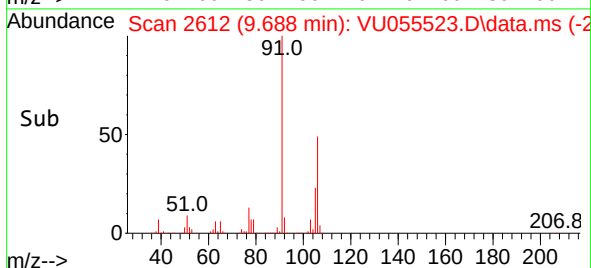
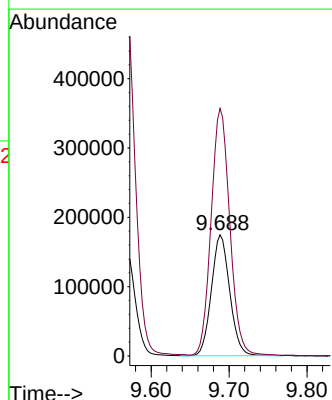
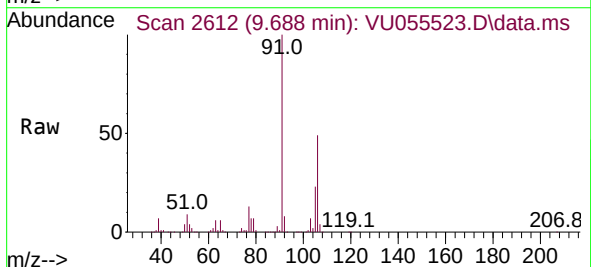
Instrument :
MSVOA_U
ClientSampleId :

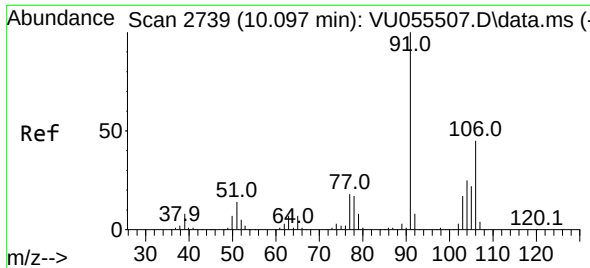
Tgt Ion: 91 Resp: 839060
Ion Ratio Lower Upper
91 100
106 30.3 22.4 41.6



#53
m,p-Xylene
Concen: 8.230 ug/L
RT: 9.688 min Scan# 2612
Delta R.T. -0.004 min
Lab File: VU055523.D
Acq: 26 Sep 2023 17:51

Tgt Ion:106 Resp: 284686
Ion Ratio Lower Upper
106 100
91 204.4 144.8 269.0

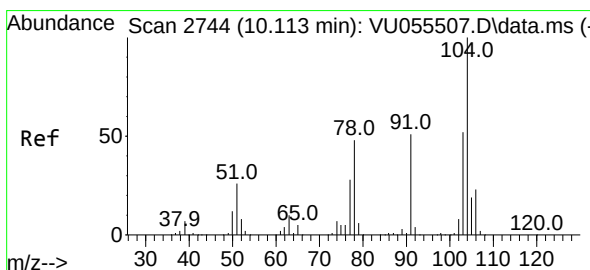
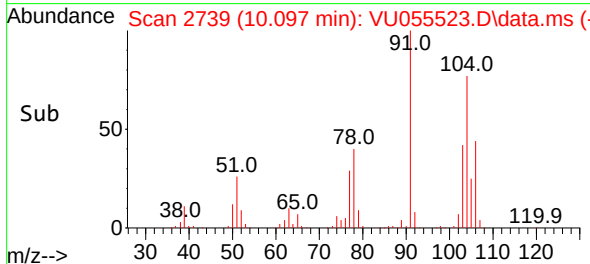
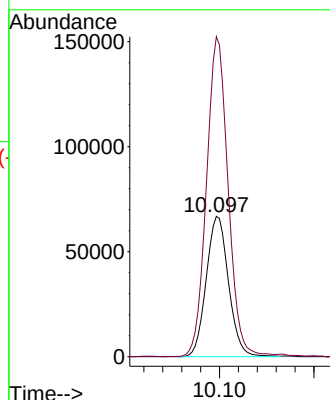
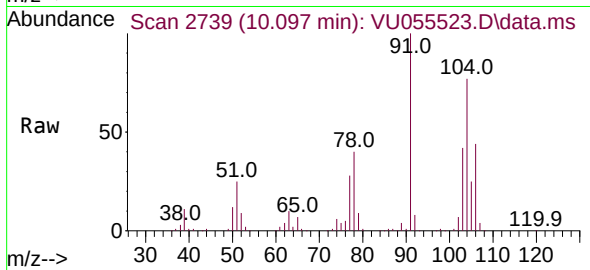




#54
o-Xylene
Concen: 3.257 ug/L
RT: 10.097 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU055523.D
Acq: 26 Sep 2023 17:51

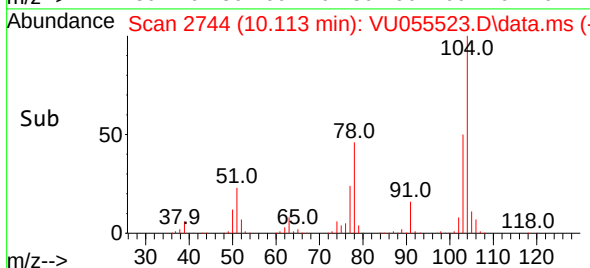
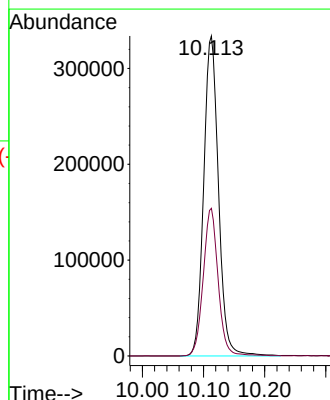
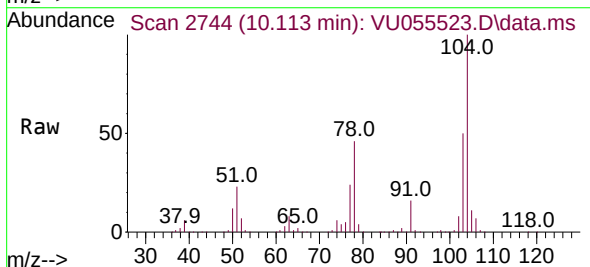
Instrument :
MSVOA_U
ClientSampleId :

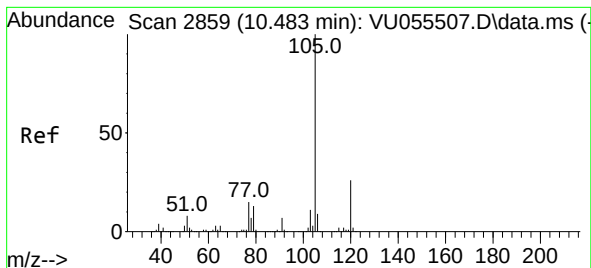
Tgt Ion:106 Resp: 109526
Ion Ratio Lower Upper
106 100
91 228.1 157.6 292.8



#55
Styrene
Concen: 10.304 ug/L
RT: 10.113 min Scan# 2744
Delta R.T. -0.000 min
Lab File: VU055523.D
Acq: 26 Sep 2023 17:51

Tgt Ion:104 Resp: 560302
Ion Ratio Lower Upper
104 100
78 46.2 31.2 58.0





#60

Isopropylbenzene

Concen: 1.068 ug/L

RT: 10.103 min Scan# 21

Delta R.T. -0.380 min

Lab File: VU055523.D

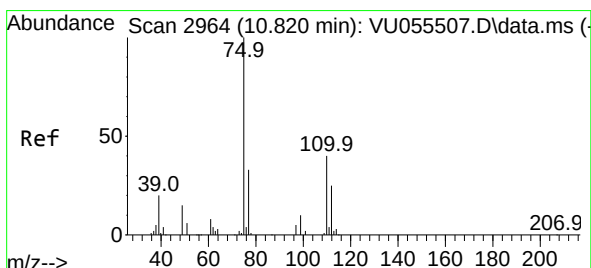
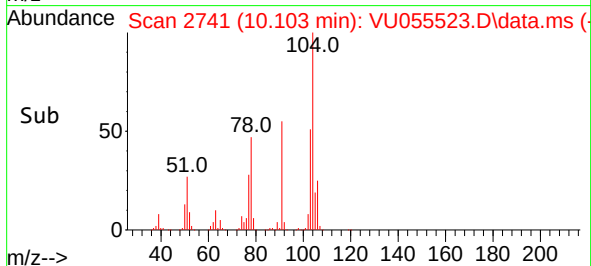
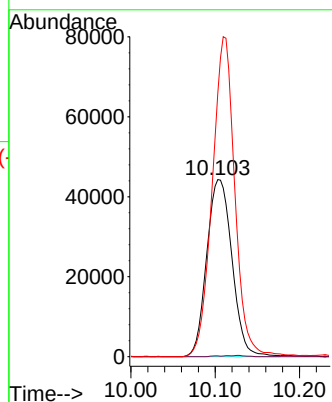
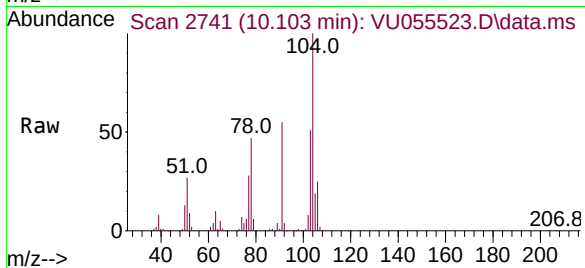
Acq: 26 Sep 2023 17:51

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:105 Resp: 92368
 Ion Ratio Lower Upper
 105 100
 120 0.3 20.8 31.2#
 77 161.7 12.6 19.0#



#61

1,2,3-Trichloropropane

Concen: 2.072 ug/L

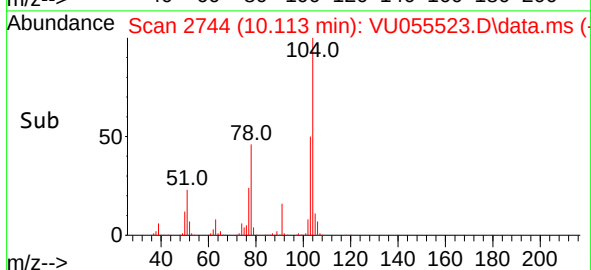
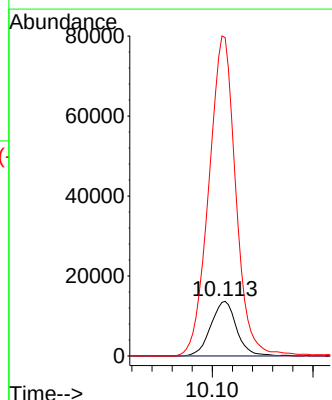
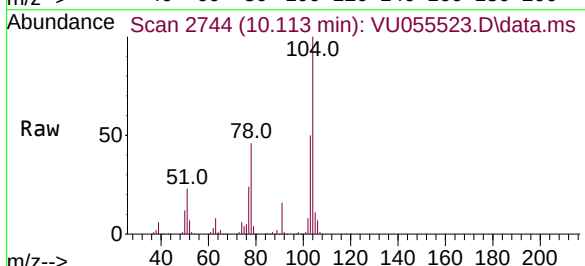
RT: 10.113 min Scan# 2744

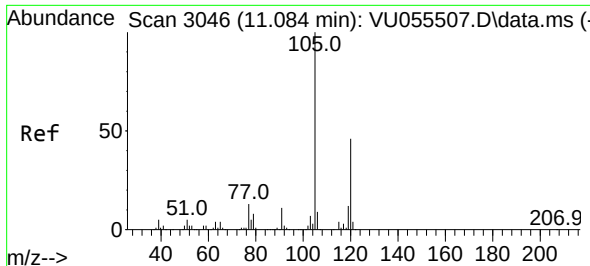
Delta R.T. -0.708 min

Lab File: VU055523.D

Acq: 26 Sep 2023 17:51

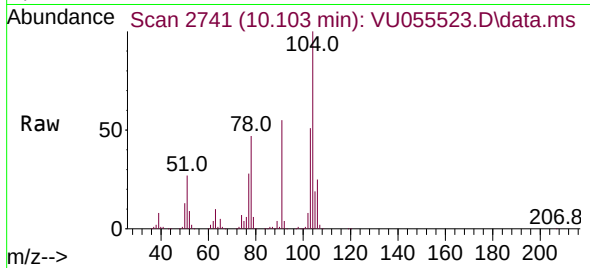
Tgt Ion: 75 Resp: 24264
 Ion Ratio Lower Upper
 75 100
 110 0.0 30.6 45.8#
 77 615.7 26.7 40.1#



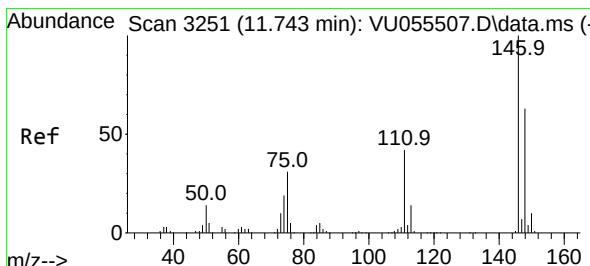
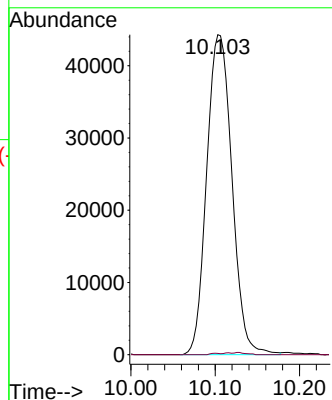
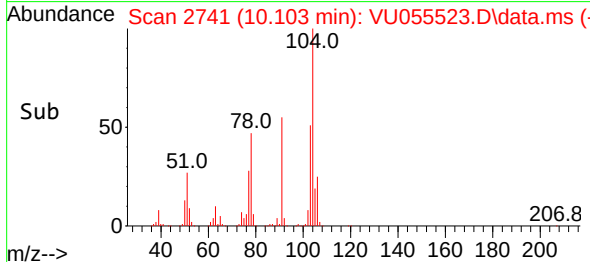


#62
 1,3,5-Trimethylbenzene
 Concen: 1.336 ug/L
 RT: 10.103 min Scan# 21
 Delta R.T. -0.981 min
 Lab File: VU055523.D
 Acq: 26 Sep 2023 17:51

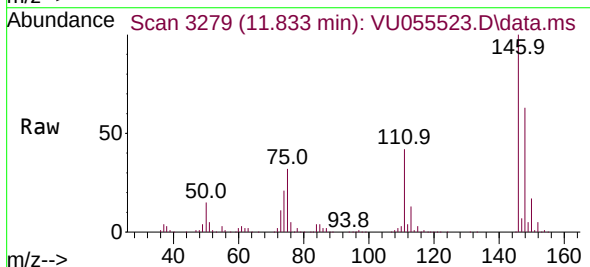
Instrument :
 MSVOA_U
 ClientSampleId :



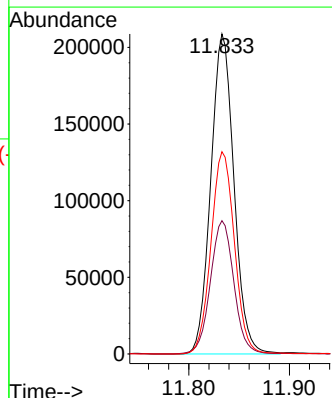
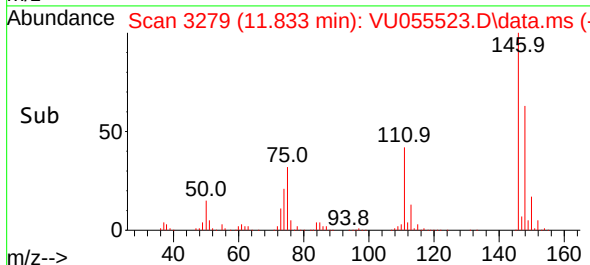
Tgt Ion:105 Resp: 92368
 Ion Ratio Lower Upper
 105 100
 120 0.3 38.1 57.1#

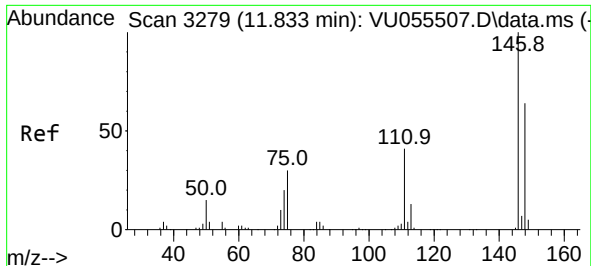


#64
 1,3-Dichlorobenzene
 Concen: 8.069 ug/L
 RT: 11.833 min Scan# 3279
 Delta R.T. 0.090 min
 Lab File: VU055523.D
 Acq: 26 Sep 2023 17:51



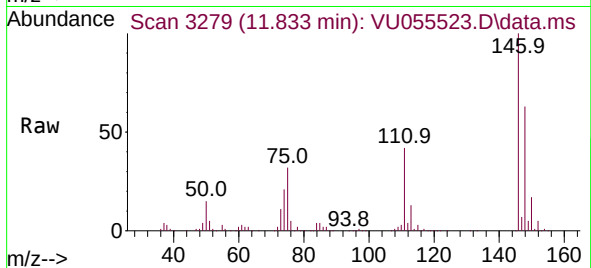
Tgt Ion:146 Resp: 333986
 Ion Ratio Lower Upper
 146 100
 111 41.7 28.8 53.6
 148 63.2 44.6 82.8



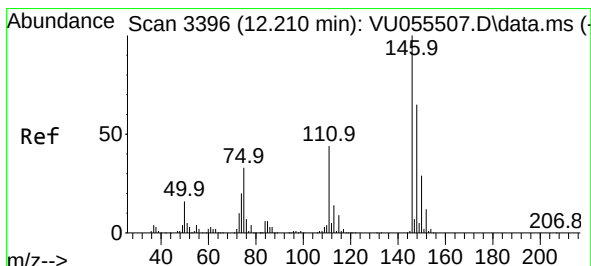
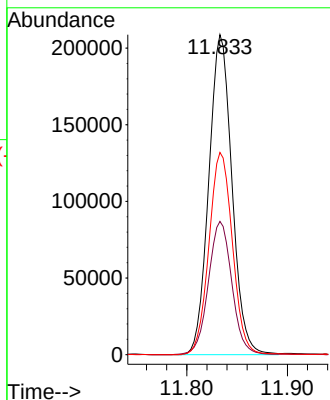
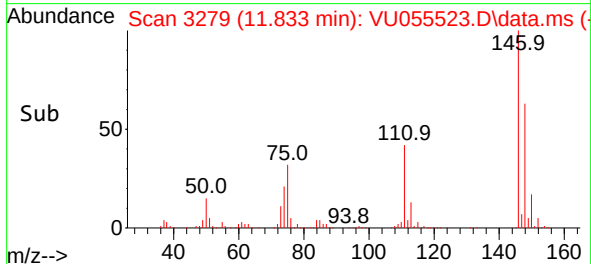


#65
1,4-Dichlorobenzene
Concen: 8.073 ug/L
RT: 11.833 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU055523.D
Acq: 26 Sep 2023 17:51

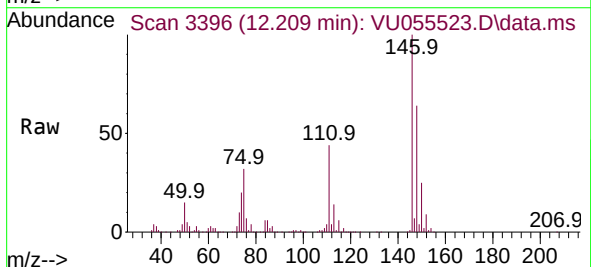
Instrument :
MSVOA_U
ClientSampleId :



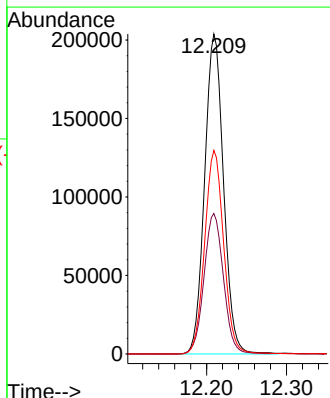
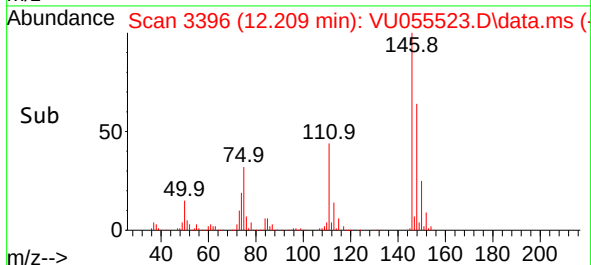
Tgt Ion:146 Resp: 333986
Ion Ratio Lower Upper
146 100
111 41.7 29.0 53.8
148 63.2 45.4 84.4

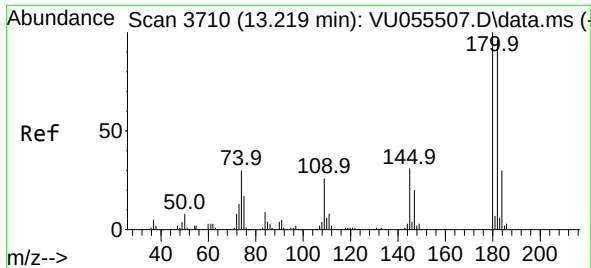


#67
1,2-Dichlorobenzene
Concen: 8.837 ug/L
RT: 12.209 min Scan# 3396
Delta R.T. -0.000 min
Lab File: VU055523.D
Acq: 26 Sep 2023 17:51



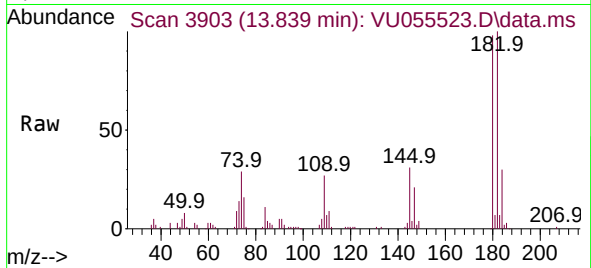
Tgt Ion:146 Resp: 335334
Ion Ratio Lower Upper
146 100
111 43.9 34.6 52.0
148 63.6 51.8 77.8



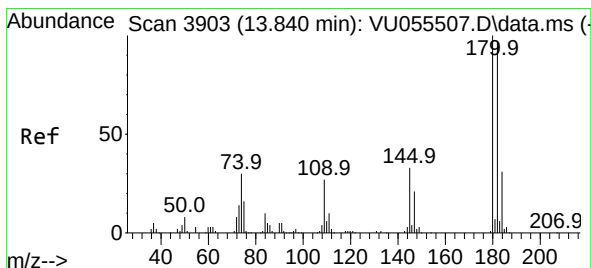
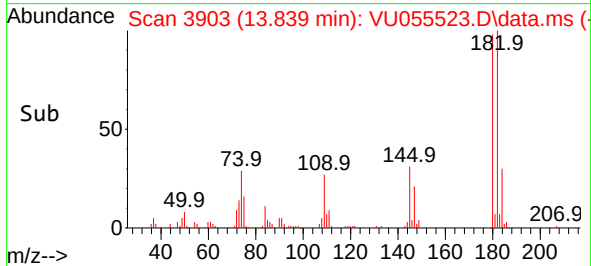
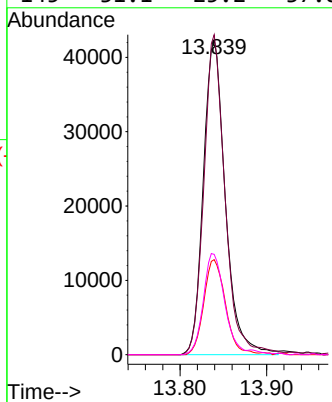


#69
 1,3,5-Trichlorobenzene
 Concen: 2.615 ug/L
 RT: 13.839 min Scan# 3903
 Delta R.T. 0.620 min
 Lab File: VU055523.D
 Acq: 26 Sep 2023 17:51

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:180 Resp: 74551
 Ion Ratio Lower Upper
 180 100
 182 97.7 77.1 115.7
 184 29.8 24.0 36.0
 145 31.1 25.2 37.8



#70
 1,2,4-trichlorobenzene
 Concen: 3.431 ug/L
 RT: 13.839 min Scan# 3903
 Delta R.T. -0.000 min
 Lab File: VU055523.D
 Acq: 26 Sep 2023 17:51

Tgt Ion:180 Resp: 74551
 Ion Ratio Lower Upper
 180 100
 182 97.7 76.4 114.6
 145 31.1 25.4 38.0

