

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U092623\
 Data File : VU055514.D
 Acq On : 26 Sep 2023 13:57
 Operator : MD/SY
 Sample : 04610-08
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 27 04:48:46 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	317924	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	323277	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	171701	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	92371	2.875	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	57.400%
7) Chloroethane-d5	1.911	69	86904	3.069	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	61.400%#
11) 1,1-Dichloroethene-d2	2.563	65	39834	3.012	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.200%
20) 2-Butanone-d5	4.628	46	322300	55.532	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.060%
24) Chloroform-d	5.058	84	236868	4.076	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.600%
26) 1,2-Dichloroethane-d4	5.698	65	119905	4.289	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.800%
32) Benzene-d6	5.724	84	426280	3.770	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	75.400%
36) 1,2-Dichloropropane-d6	6.685	67	145897	4.318	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.400%
41) Toluene-d8	7.894	98	344848	3.346	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	67.000%#
43) trans-1,3-Dichloroprop...	8.177	79	51835	4.372	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.400%
46) 2-Hexanone-d5	8.631	63	207526	57.545	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	115.080%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	121399	4.795	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.800%
66) 1,2-Dichlorobenzene-d4	12.190	152	149757	4.321	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.400%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	319673	10.882	ug/L	98
12) 1,1-Dichloroethene	2.576	96	360766	16.230	ug/L #	69
16) Methylene chloride	3.039	84	674160	25.314	ug/L	96
18) trans-1,2-Dichloroethene	3.348	96	435007	19.416	ug/L	98
22) cis-1,2-Dichloroethene	4.663	96	182605	7.030	ug/L	97
27) 1,2-Dichloroethane	5.788	62	91634	3.406	ug/L	99
29) 1,1,1-Trichloroethane	5.312	97	621497	16.864	ug/L	98
31) Carbon tetrachloride	5.521	117	456708	14.458	ug/L	98
33) Benzene	5.769	78	2137307	22.971	ug/L	100
34) Trichloroethene	6.541	95	154903	5.886	ug/L	98
37) 1,2-Dichloropropane	6.785	63	432842	17.787	ug/L	99
42) Toluene	7.965	91	2452424	24.710	ug/L	98
45) 1,1,2-Trichloroethane	8.396	97	85123	4.989	ug/L	99
47) Tetrachloroethene	8.550	164	340611	18.041	ug/L	99
48) 2-Hexanone	8.682	43	28290	3.307	ug/L #	84
49) Dibromochloromethane	8.550	129	337511	18.871	ug/L #	9
51) Chlorobenzene	9.444	112	968198	15.231	ug/L	98
52) Ethylbenzene	9.566	91	2406555	22.619	ug/L	98
53) m,p-Xylene	9.688	106	816352	20.474	ug/L	99

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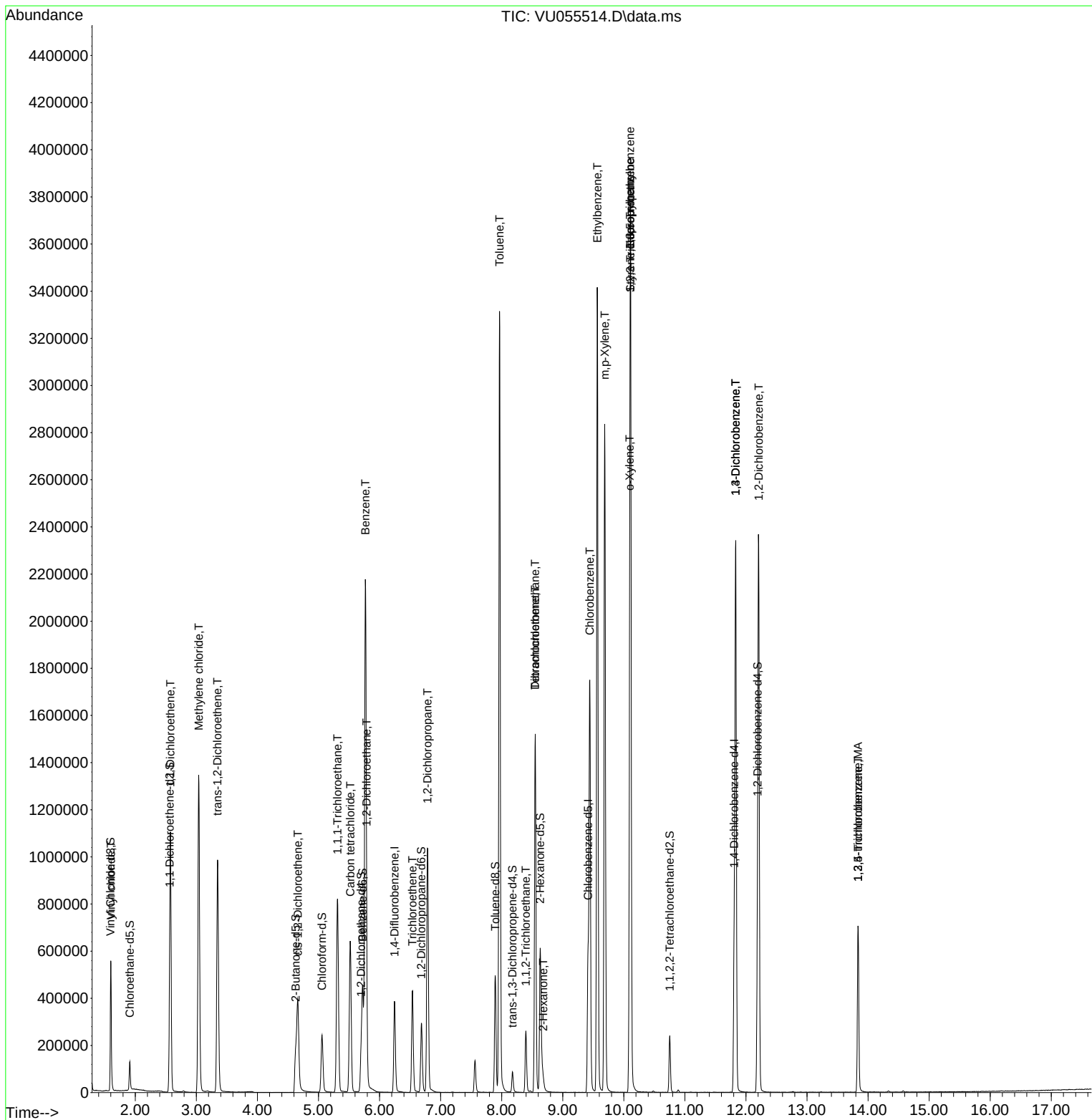
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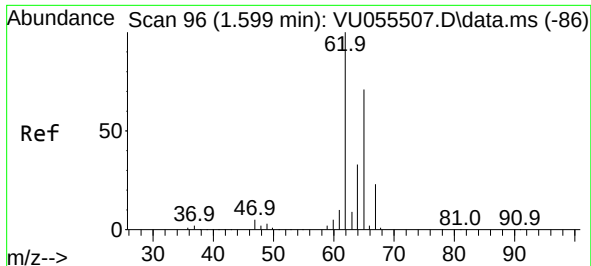
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

54) o-Xylene	10.097	106	312931	8.072	ug/L	97
55) Styrene	10.110	104	1630904	26.018	ug/L	98
60) Isopropylbenzene	10.103	105	268973	2.718	ug/L #	1
61) 1,2,3-Trichloropropane	10.110	75	73880	5.512	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.103	105	268973	3.399	ug/L #	30
64) 1,3-Dichlorobenzene	11.833	146	933527	19.704	ug/L	100
65) 1,4-Dichlorobenzene	11.833	146	933527	19.714	ug/L	99
67) 1,2-Dichlorobenzene	12.209	146	934535	21.515	ug/L	99
69) 1,3,5-Trichlorobenzene	13.836	180	223287	6.844	ug/L	98
70) 1,2,4-trichlorobenzene	13.836	180	223287	8.977	ug/L	99

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

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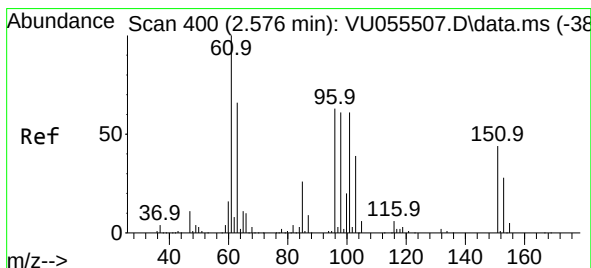
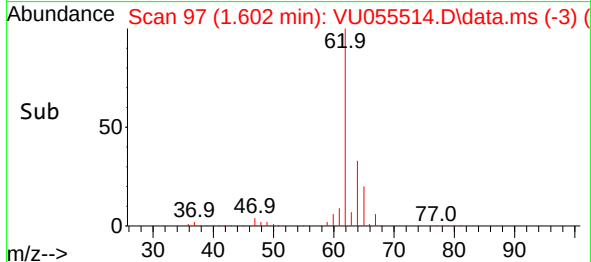
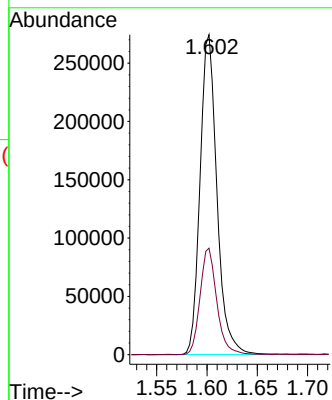
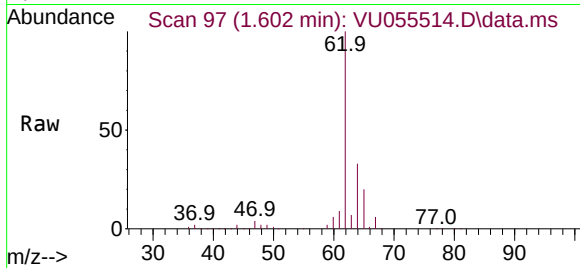




#5
 Vinyl chloride
 Concen: 10.882 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. 0.003 min
 Lab File: VU055514.D
 Acq: 26 Sep 2023 13:57

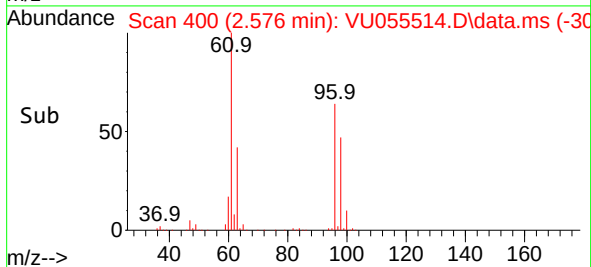
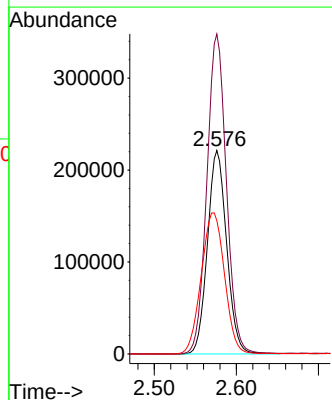
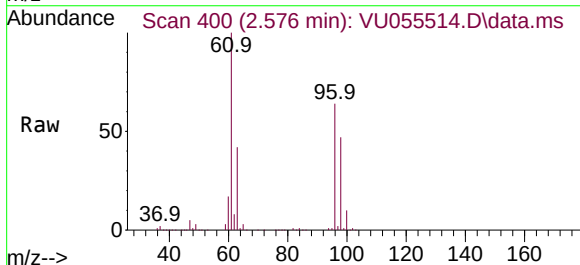
Instrument :
 MSVOA_U
 ClientSampleId :

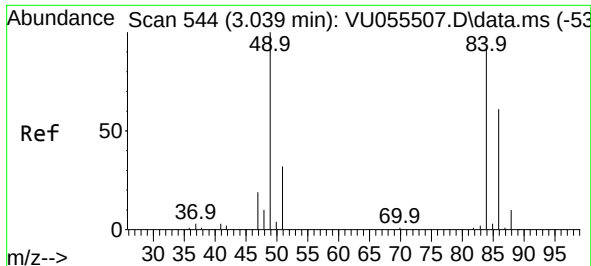
Tgt Ion: 62 Resp: 319673
 Ion Ratio Lower Upper
 62 100
 64 33.3 22.3 41.5



#12
 1,1-Dichloroethene
 Concen: 16.230 ug/L
 RT: 2.576 min Scan# 400
 Delta R.T. -0.000 min
 Lab File: VU055514.D
 Acq: 26 Sep 2023 13:57

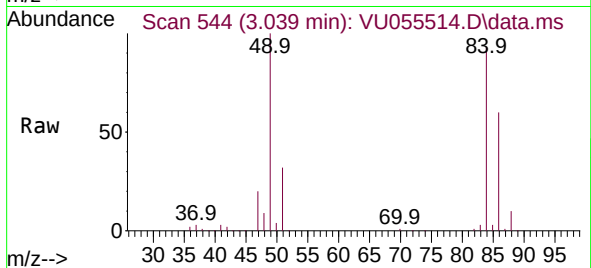
Tgt Ion: 96 Resp: 360766
 Ion Ratio Lower Upper
 96 100
 61 157.3 114.5 212.7
 63 65.5 98.3 182.5#



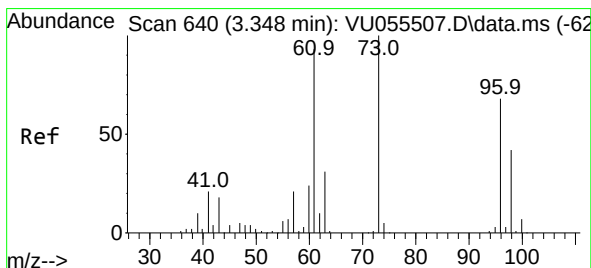
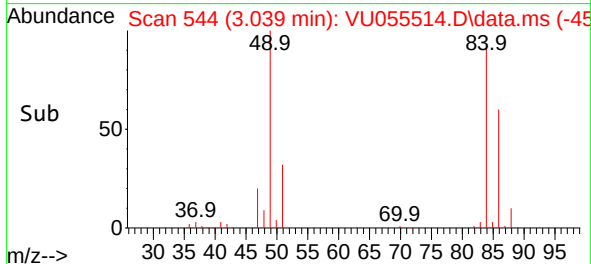
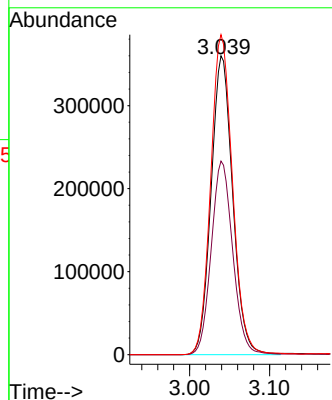


#16
Methylene chloride
Concen: 25.314 ug/L
RT: 3.039 min Scan# 544
Delta R.T. -0.000 min
Lab File: VU055514.D
Acq: 26 Sep 2023 13:57

Instrument :
MSVOA_U
ClientSampleId :

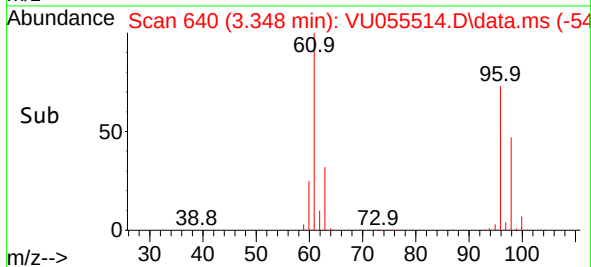
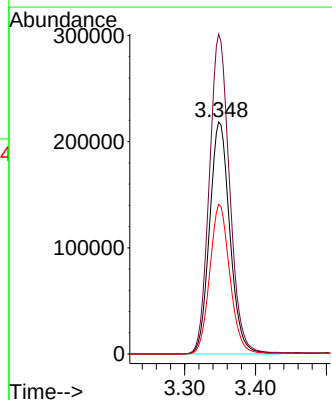
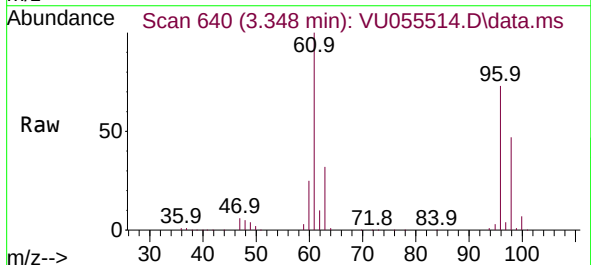


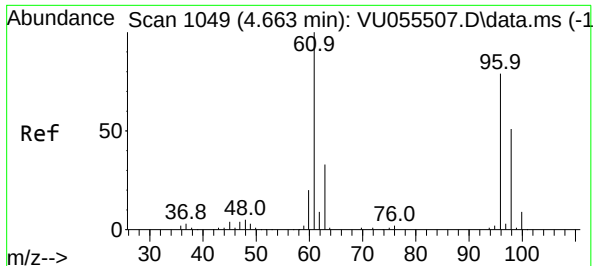
Tgt Ion: 84 Resp: 674160
Ion Ratio Lower Upper
84 100
86 64.7 44.9 83.3
49 107.0 78.8 146.3



#18
trans-1,2-Dichloroethene
Concen: 19.416 ug/L
RT: 3.348 min Scan# 640
Delta R.T. -0.000 min
Lab File: VU055514.D
Acq: 26 Sep 2023 13:57

Tgt Ion: 96 Resp: 435007
Ion Ratio Lower Upper
96 100
61 137.9 94.6 175.6
98 64.5 45.7 84.9





#22

cis-1,2-Dichloroethene

Concen: 7.030 ug/L

RT: 4.663 min Scan# 1049

Delta R.T. -0.000 min

Lab File: VU055514.D

Acq: 26 Sep 2023 13:57

Instrument :

MSVOA_U

ClientSampleId :

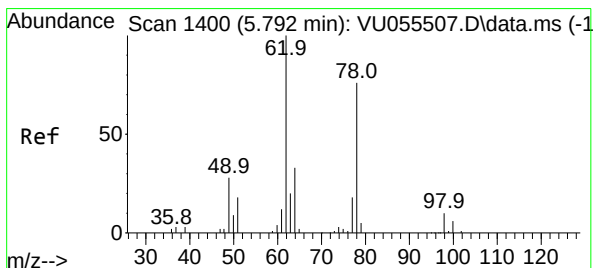
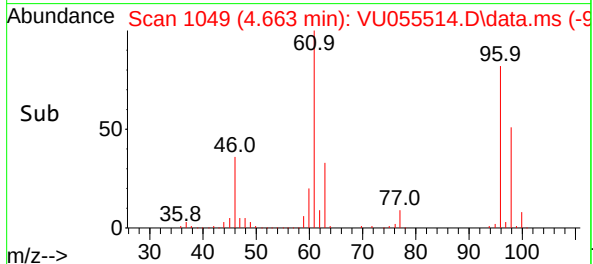
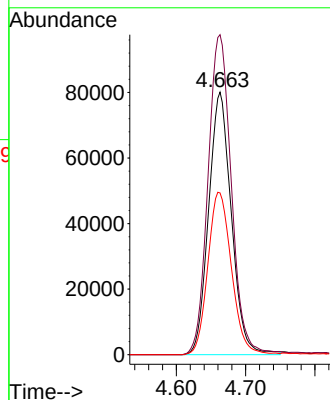
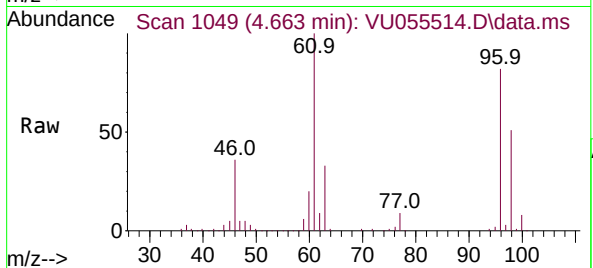
Tgt Ion: 96 Resp: 182605

Ion Ratio Lower Upper

96 100

61 121.9 87.8 163.2

98 61.6 44.4 82.4



#27

1,2-Dichloroethane

Concen: 3.406 ug/L

RT: 5.788 min Scan# 1399

Delta R.T. -0.003 min

Lab File: VU055514.D

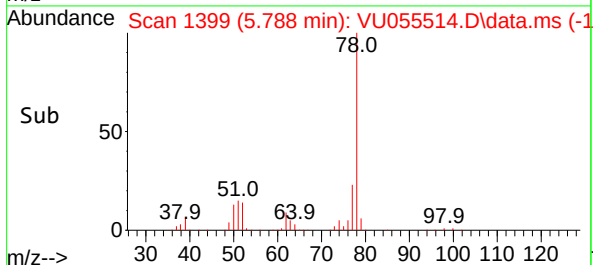
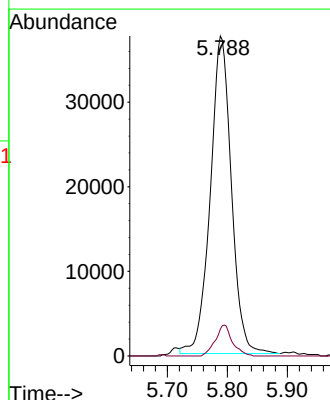
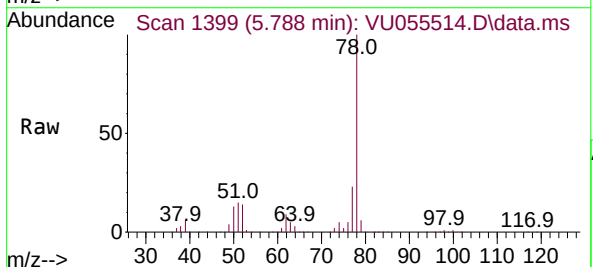
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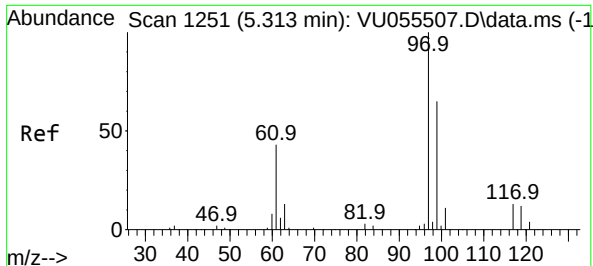
Tgt Ion: 62 Resp: 91634

Ion Ratio Lower Upper

62 100

98 8.4 7.0 10.4





#29

1,1,1-Trichloroethane

Concen: 16.864 ug/L

RT: 5.312 min Scan# 1251

Delta R.T. -0.000 min

Lab File: VU055514.D

Acq: 26 Sep 2023 13:57

Instrument :

MSVOA_U

ClientSampleId :

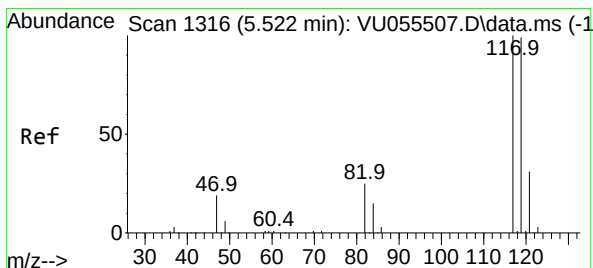
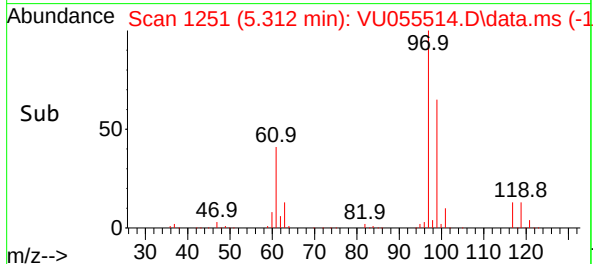
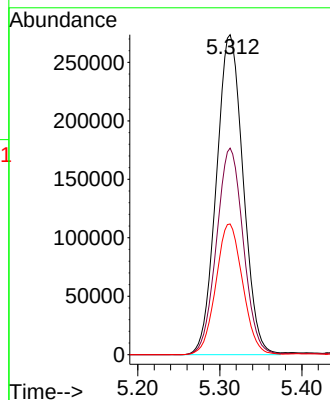
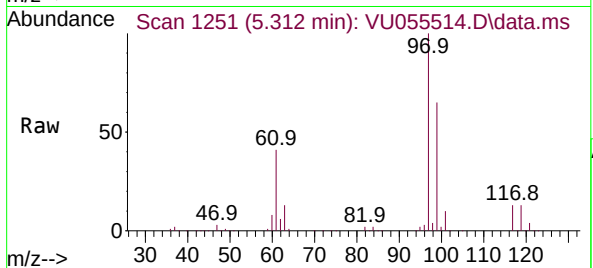
Tgt Ion: 97 Resp: 621497

Ion Ratio Lower Upper

97 100

99 64.7 50.7 76.1

61 40.9 34.6 51.8



#31

Carbon tetrachloride

Concen: 14.458 ug/L

RT: 5.521 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VU055514.D

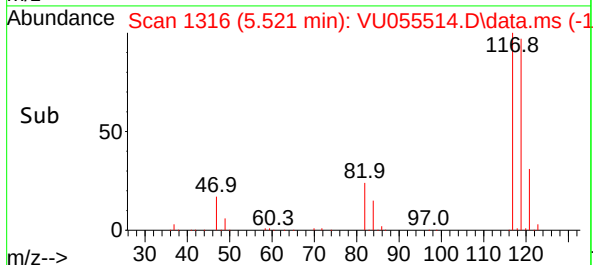
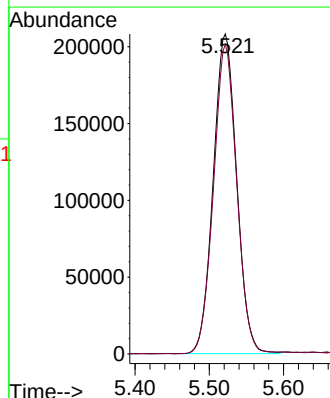
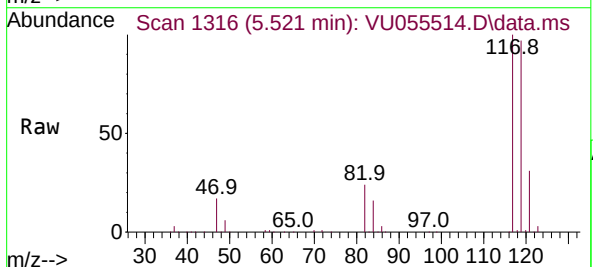
Acq: 26 Sep 2023 13:57

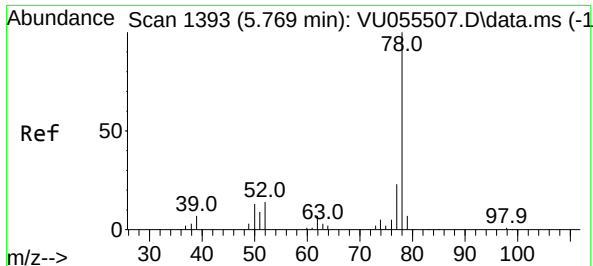
Tgt Ion: 117 Resp: 456708

Ion Ratio Lower Upper

117 100

119 96.1 75.2 112.8

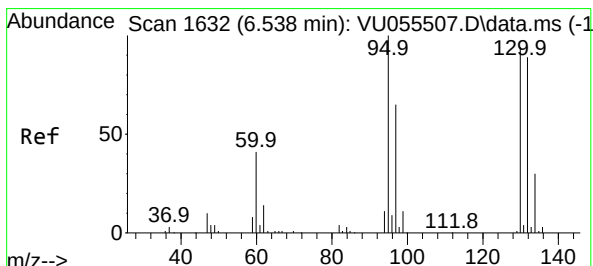
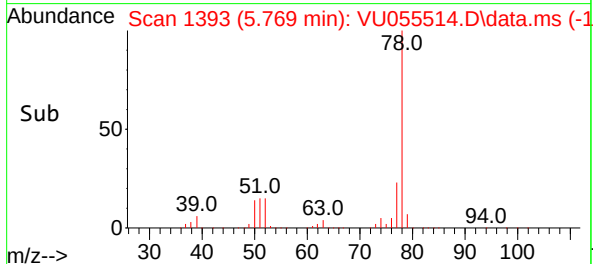
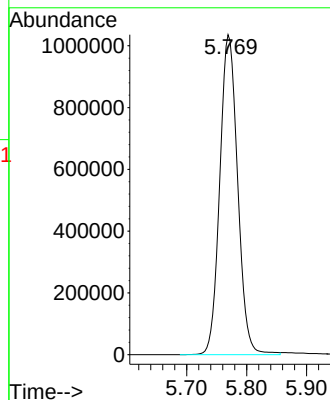
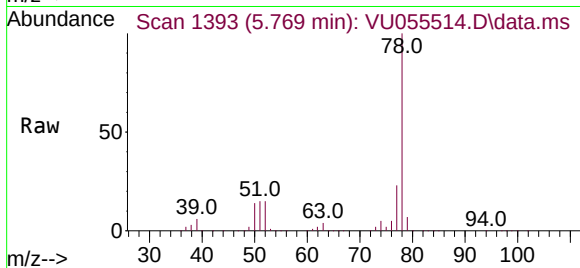




#33
Benzene
Concen: 22.971 ug/L
RT: 5.769 min Scan# 1393
Delta R.T. -0.000 min
Lab File: VU055514.D
Acq: 26 Sep 2023 13:57

Instrument :
MSVOA_U
ClientSampleId :

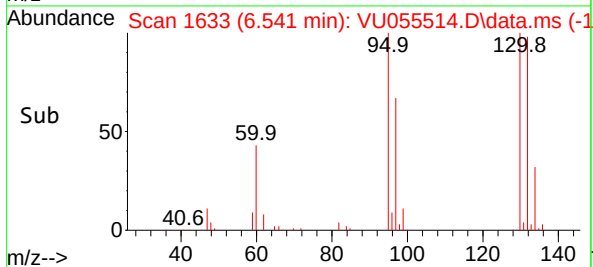
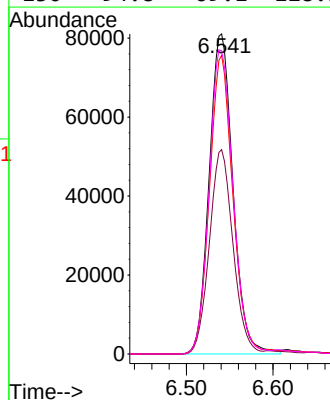
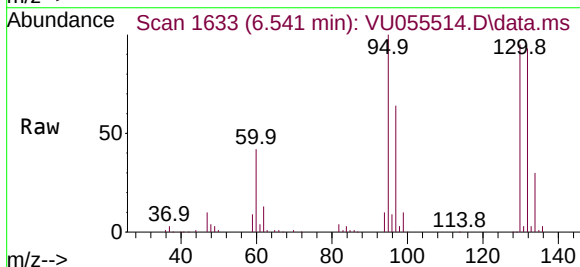
Tgt Ion: 78 Resp: 2137307

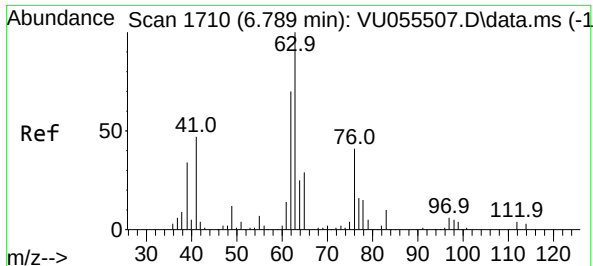


#34
Trichloroethene
Concen: 5.886 ug/L
RT: 6.541 min Scan# 1633
Delta R.T. 0.003 min
Lab File: VU055514.D
Acq: 26 Sep 2023 13:57

Tgt Ion: 95 Resp: 154903

Ion	Ratio	Lower	Upper
95	100		
97	63.8	45.4	84.2
132	93.3	65.2	121.2
130	94.8	69.1	128.3





#37

1,2-Dichloropropane

Concen: 17.787 ug/L

RT: 6.785 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU055514.D

Acq: 26 Sep 2023 13:57

Instrument :

MSVOA_U

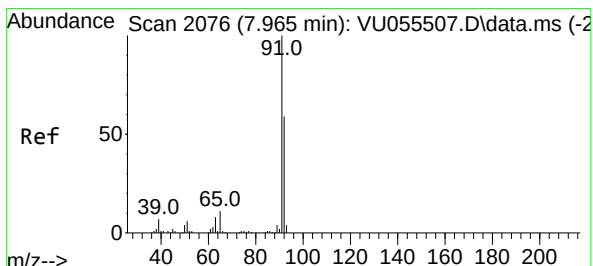
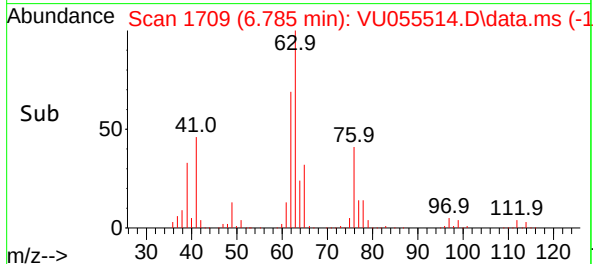
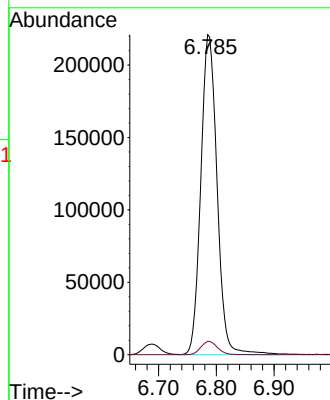
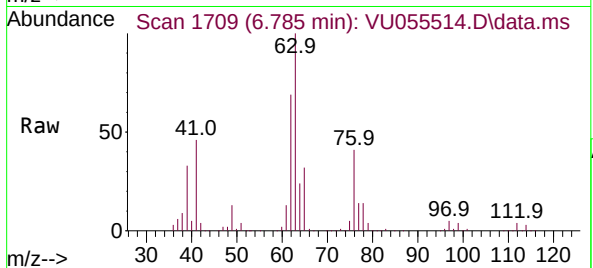
ClientSampleId :

Tgt Ion: 63 Resp: 432842

Ion Ratio Lower Upper

63 100

112 4.2 3.0 4.6



#42

Toluene

Concen: 24.710 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. -0.000 min

Lab File: VU055514.D

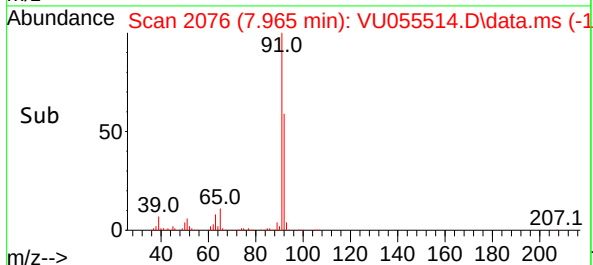
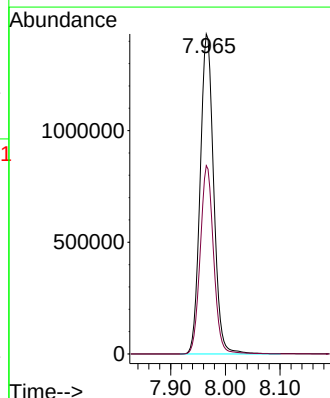
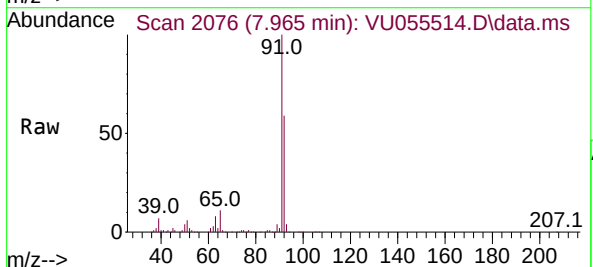
Acq: 26 Sep 2023 13:57

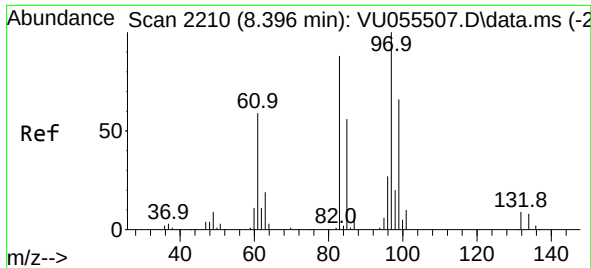
Tgt Ion: 91 Resp: 2452424

Ion Ratio Lower Upper

91 100

92 58.8 40.3 74.8

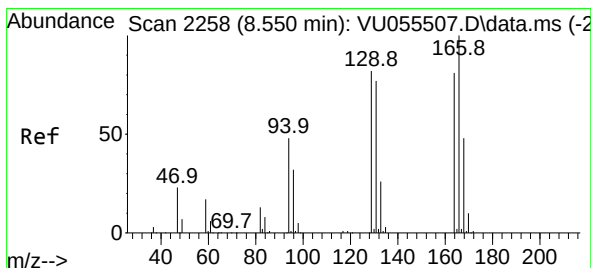
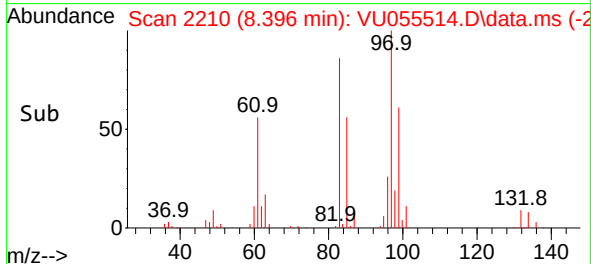
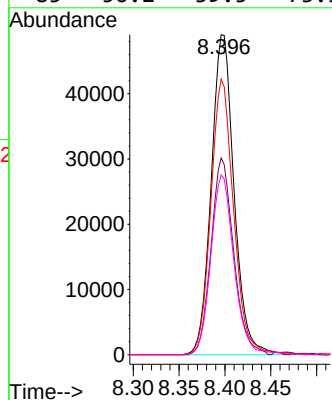
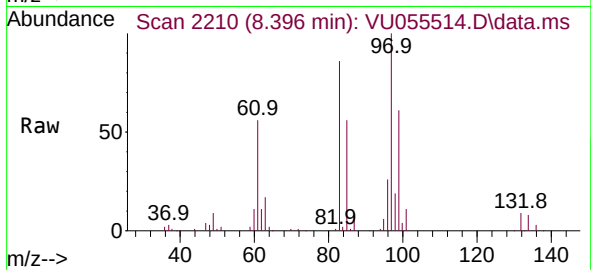




#45
1,1,2-Trichloroethane
Concen: 4.989 ug/L
RT: 8.396 min Scan# 2110
Delta R.T. -0.000 min
Lab File: VU055514.D
Acq: 26 Sep 2023 13:57

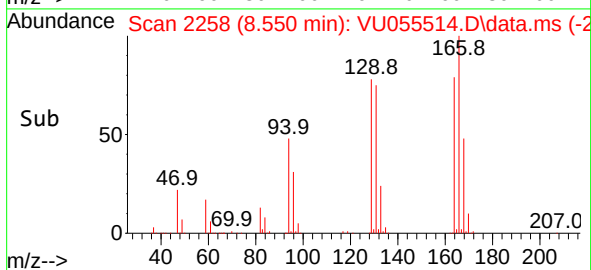
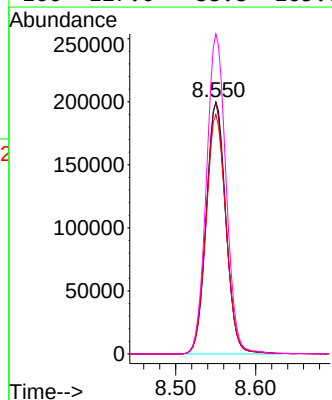
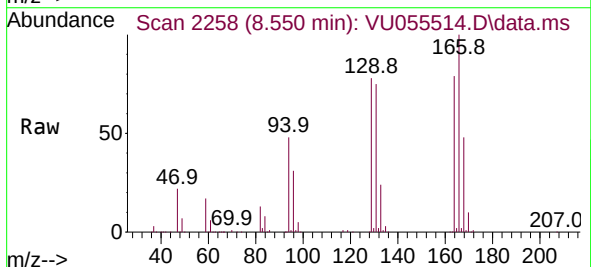
Instrument :
MSVOA_U
ClientSampleId :

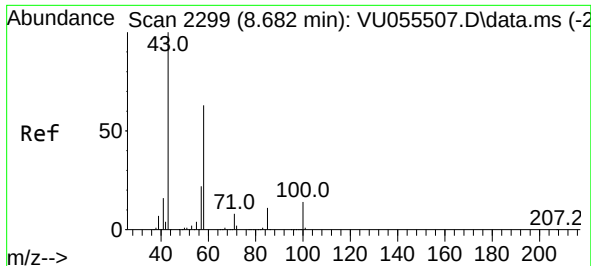
Tgt Ion:	97	Resp:	85123
Ion	Ratio	Lower	Upper
97	100		
99	61.5	44.1	81.9
83	86.1	61.5	114.1
85	56.2	39.5	73.3



#47
Tetrachloroethene
Concen: 18.041 ug/L
RT: 8.550 min Scan# 2258
Delta R.T. -0.000 min
Lab File: VU055514.D
Acq: 26 Sep 2023 13:57

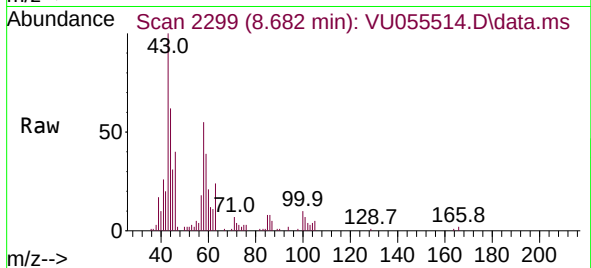
Tgt Ion:	164	Resp:	340611
Ion	Ratio	Lower	Upper
164	100		
129	99.6	67.4	125.2
131	95.0	66.4	123.2
166	127.0	88.8	165.0



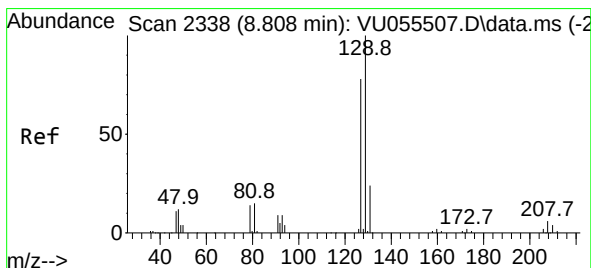
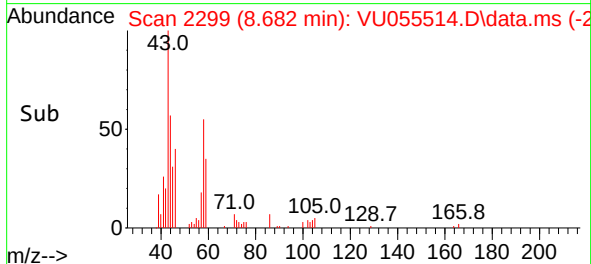
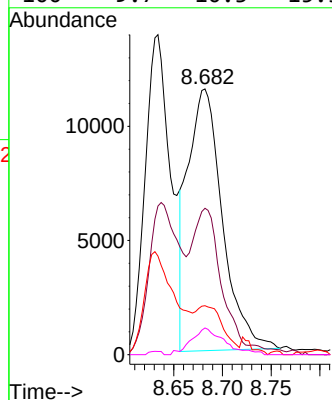


#48
2-Hexanone
Concen: 3.307 ug/L
RT: 8.682 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU055514.D
Acq: 26 Sep 2023 13:57

Instrument :
MSVOA_U
ClientSampleId :

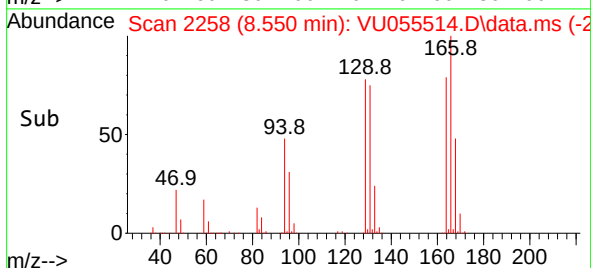
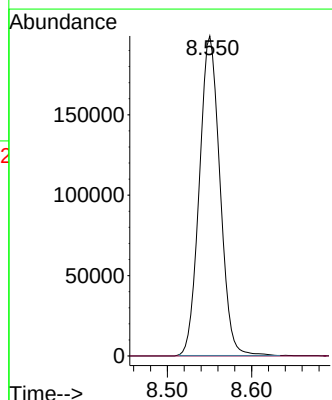
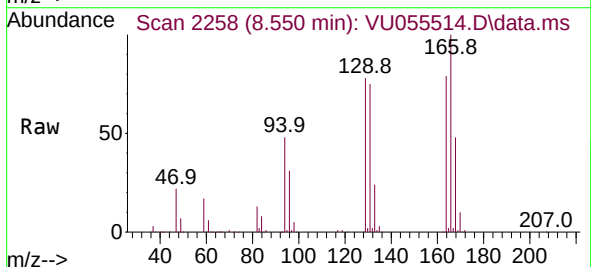


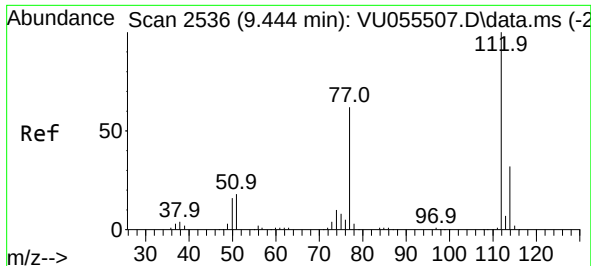
Tgt Ion: 43	Resp: 28290
Ion Ratio	Lower Upper
43 100	
58 47.8	48.5 72.7#
57 13.4	17.0 25.4#
100 9.7	10.3 15.5#



#49
Dibromochloromethane
Concen: 18.871 ug/L
RT: 8.550 min Scan# 2258
Delta R.T. -0.257 min
Lab File: VU055514.D
Acq: 26 Sep 2023 13:57

Tgt Ion:129	Resp: 337511
Ion Ratio	Lower Upper
129 100	
127 0.0	56.8 105.6#

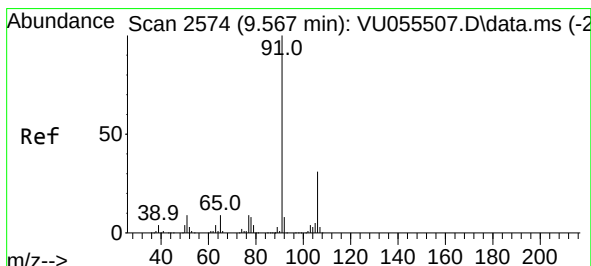
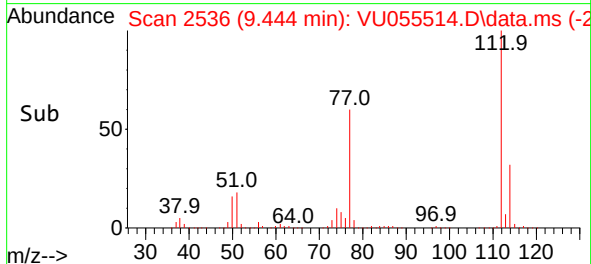
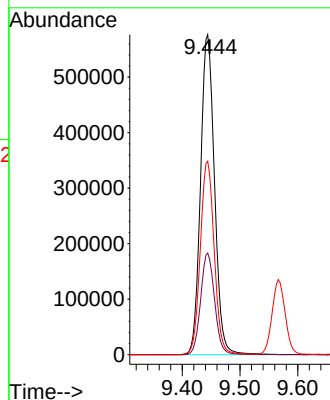
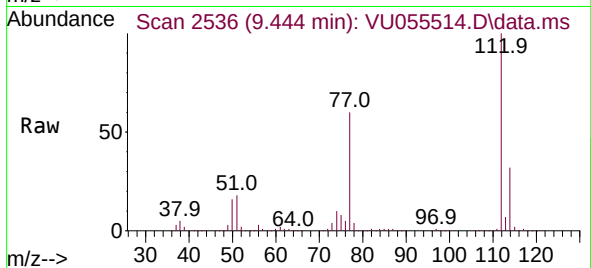




#51
Chlorobenzene
Concen: 15.231 ug/L
RT: 9.444 min Scan# 2536
Delta R.T. -0.000 min
Lab File: VU055514.D
Acq: 26 Sep 2023 13:57

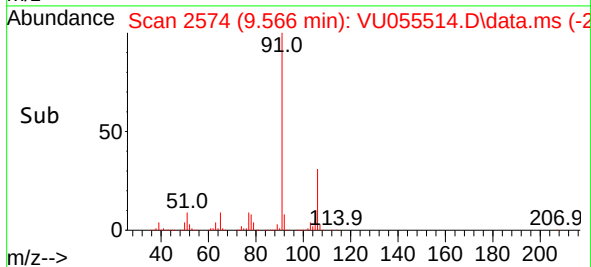
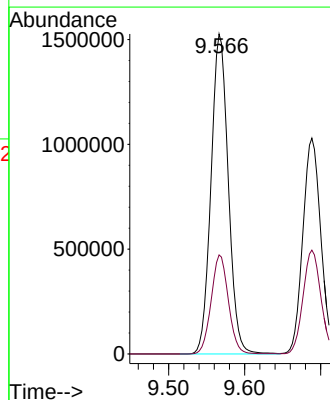
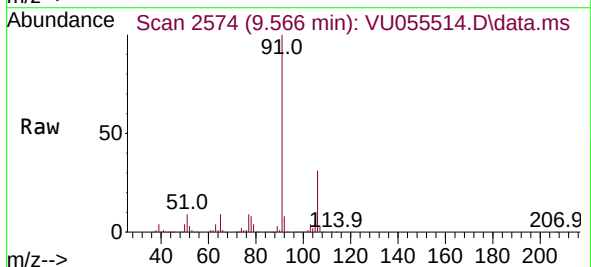
Instrument :
MSVOA_U
ClientSampleId :

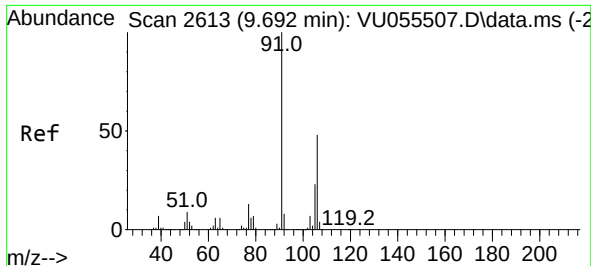
Tgt Ion:112 Resp: 968198
Ion Ratio Lower Upper
112 100
114 31.7 22.0 40.8
77 60.5 46.9 70.3



#52
Ethylbenzene
Concen: 22.619 ug/L
RT: 9.566 min Scan# 2574
Delta R.T. -0.000 min
Lab File: VU055514.D
Acq: 26 Sep 2023 13:57

Tgt Ion: 91 Resp: 2406555
Ion Ratio Lower Upper
91 100
106 30.9 22.4 41.6

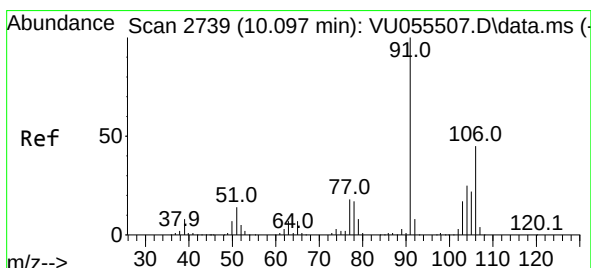
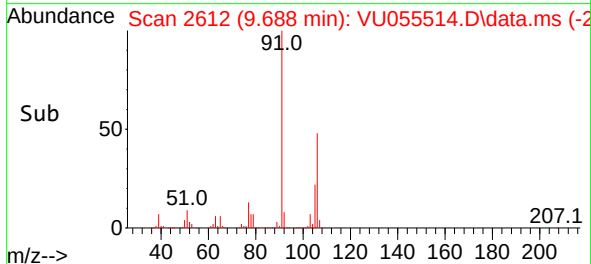
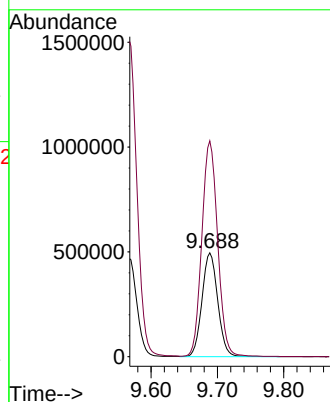
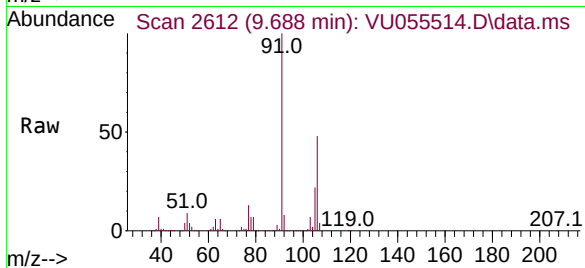




#53
m,p-Xylene
Concen: 20.474 ug/L
RT: 9.688 min Scan# 2612
Delta R.T. -0.003 min
Lab File: VU055514.D
Acq: 26 Sep 2023 13:57

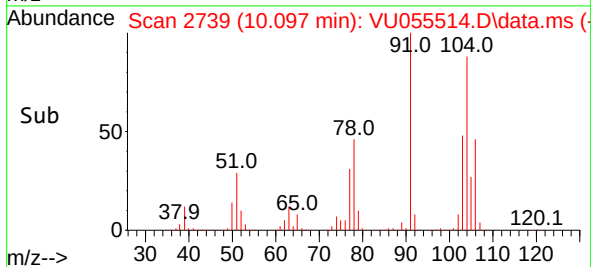
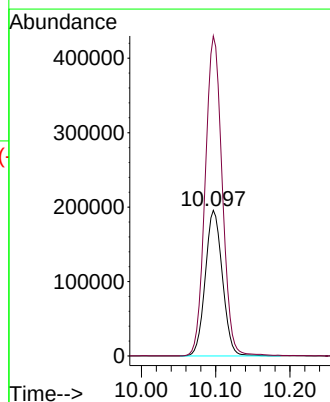
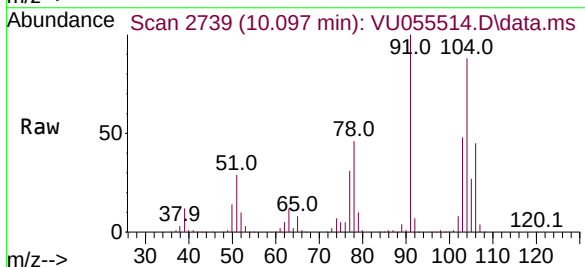
Instrument :
MSVOA_U
ClientSampleId :

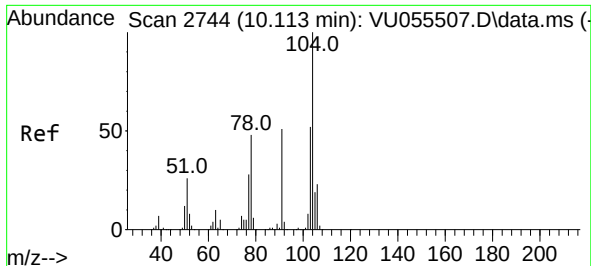
Tgt Ion:106 Resp: 816352
Ion Ratio Lower Upper
106 100
91 207.8 144.8 269.0



#54
o-Xylene
Concen: 8.072 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. -0.000 min
Lab File: VU055514.D
Acq: 26 Sep 2023 13:57

Tgt Ion:106 Resp: 312931
Ion Ratio Lower Upper
106 100
91 219.8 157.6 292.8

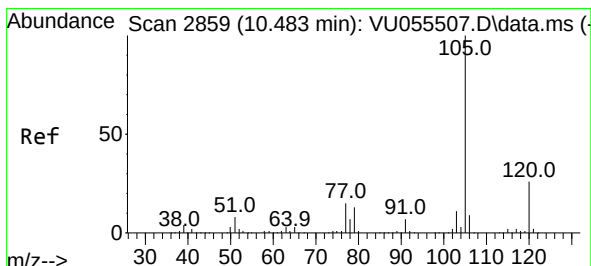
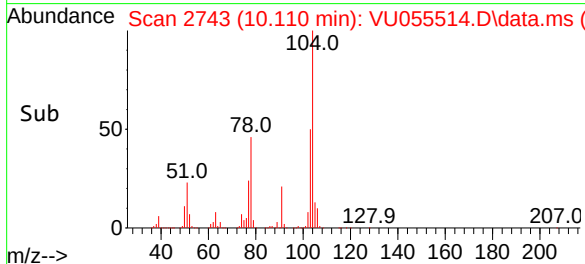
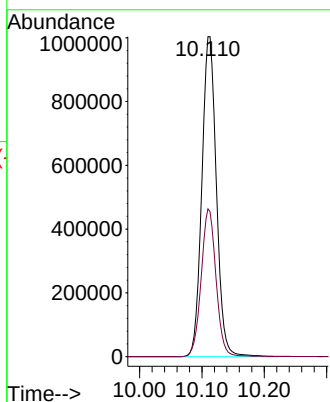
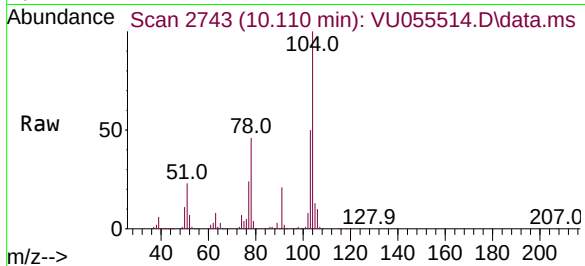




#55
Styrene
Concen: 26.018 ug/L
RT: 10.110 min Scan# 2741
Delta R.T. -0.003 min
Lab File: VU055514.D
Acq: 26 Sep 2023 13:57

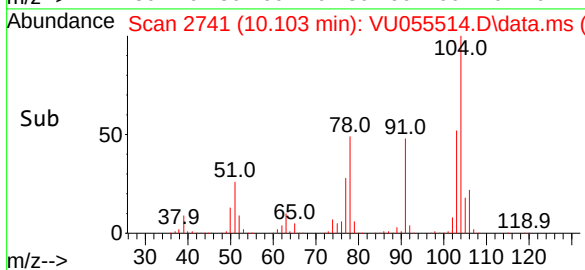
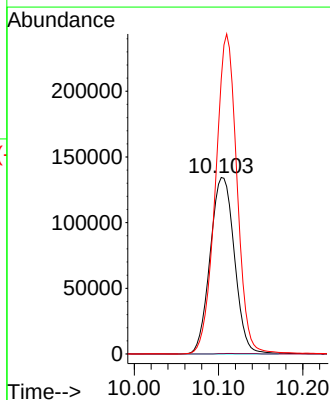
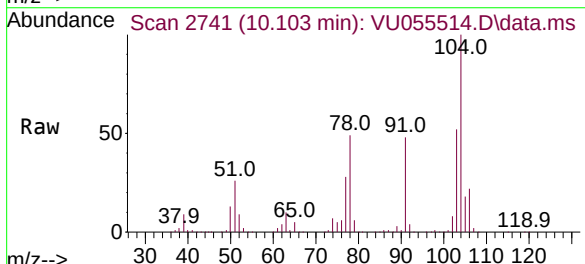
Instrument :
MSVOA_U
ClientSampleId :

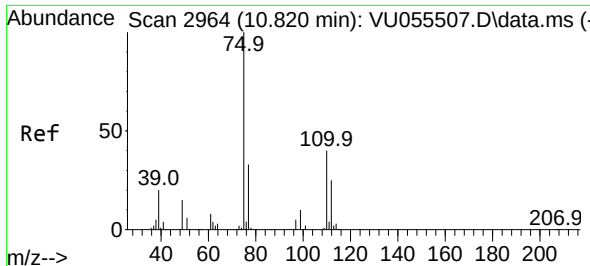
Tgt Ion:104 Resp: 1630904
Ion Ratio Lower Upper
104 100
78 46.2 31.2 58.0



#60
Isopropylbenzene
Concen: 2.718 ug/L
RT: 10.103 min Scan# 2741
Delta R.T. -0.380 min
Lab File: VU055514.D
Acq: 26 Sep 2023 13:57

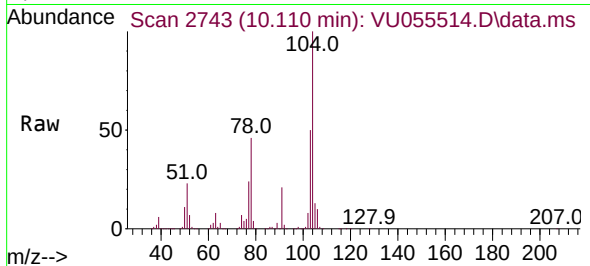
Tgt Ion:105 Resp: 268973
Ion Ratio Lower Upper
105 100
120 0.3 20.8 31.2#
77 161.3 12.6 19.0#



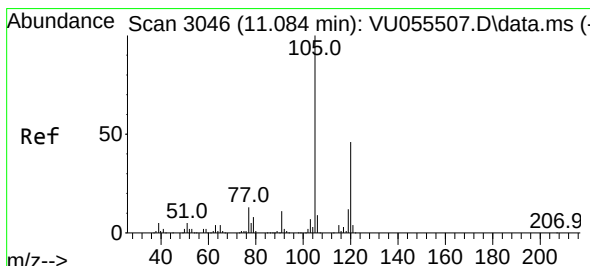
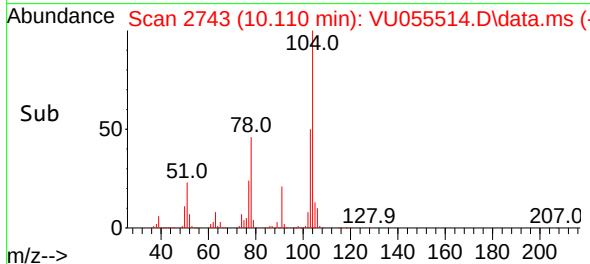
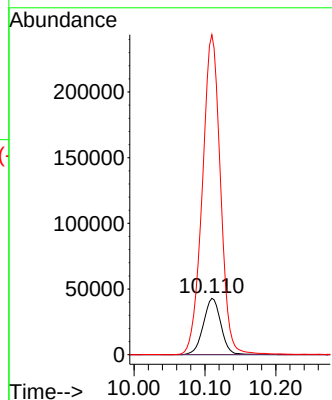


#61
 1,2,3-Trichloropropane
 Concen: 5.512 ug/L
 RT: 10.110 min Scan# 21
 Delta R.T. -0.711 min
 Lab File: VU055514.D
 Acq: 26 Sep 2023 13:57

Instrument :
 MSVOA_U
 ClientSampleId :

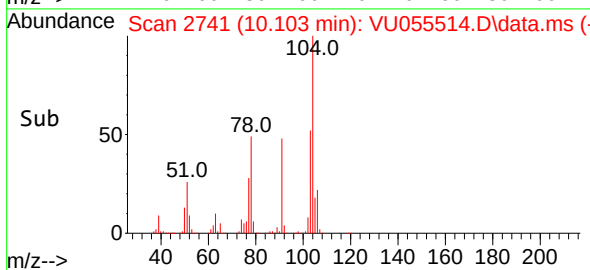
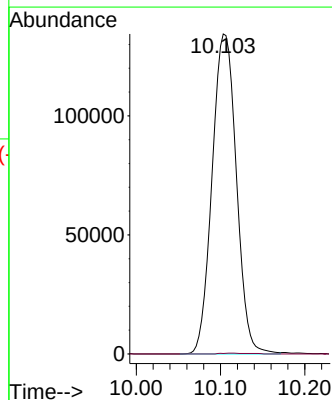
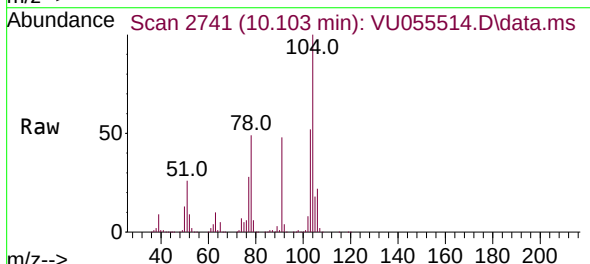


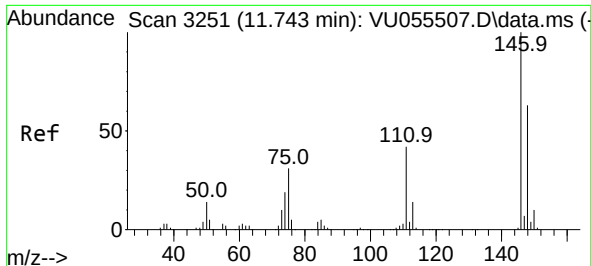
Tgt Ion: 75 Resp: 73880
 Ion Ratio Lower Upper
 75 100
 110 0.0 30.6 45.8#
 77 587.3 26.7 40.1#



#62
 1,3,5-Trimethylbenzene
 Concen: 3.399 ug/L
 RT: 10.103 min Scan# 2741
 Delta R.T. -0.981 min
 Lab File: VU055514.D
 Acq: 26 Sep 2023 13:57

Tgt Ion: 105 Resp: 268973
 Ion Ratio Lower Upper
 105 100
 120 0.3 38.1 57.1#

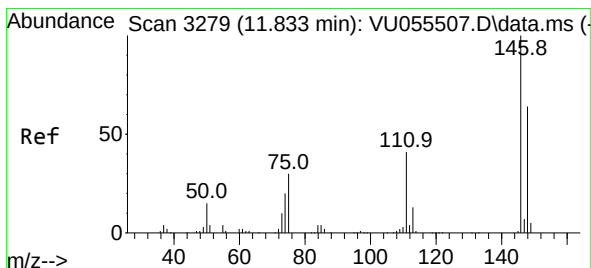
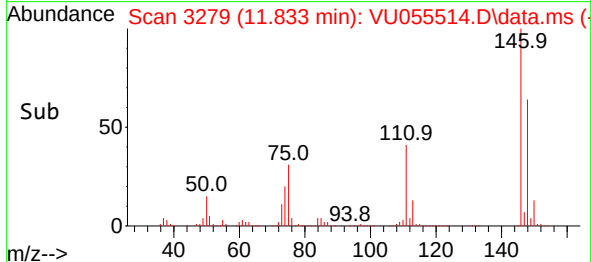
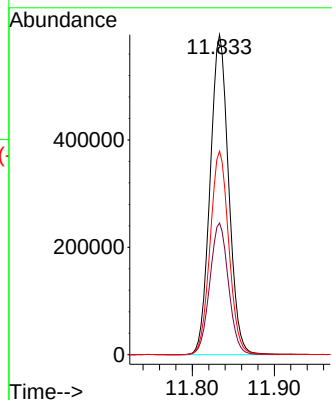
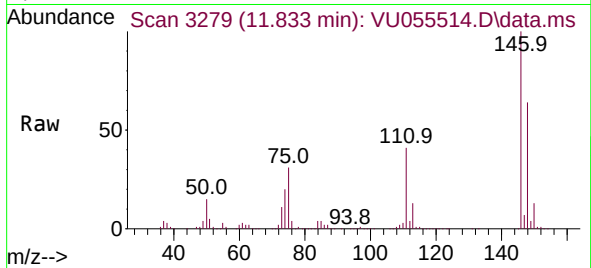




#64
1,3-Dichlorobenzene
Concen: 19.704 ug/L
RT: 11.833 min Scan# 3279
Delta R.T. 0.090 min
Lab File: VU055514.D
Acq: 26 Sep 2023 13:57

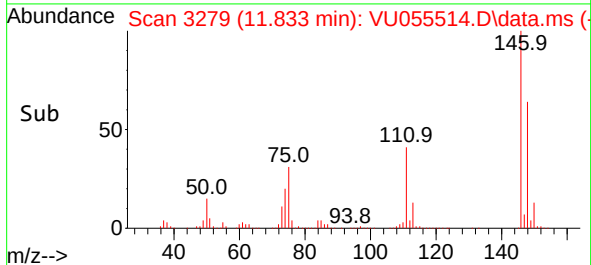
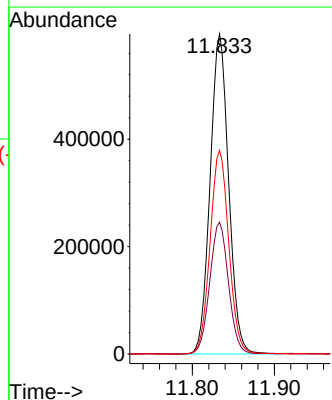
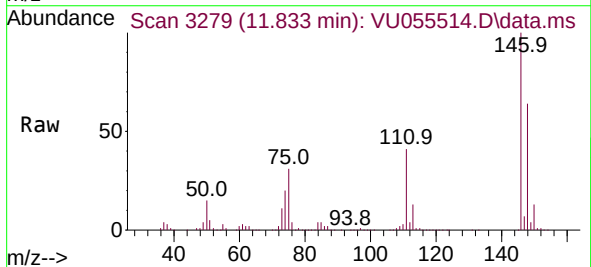
Instrument :
MSVOA_U
ClientSampleId :

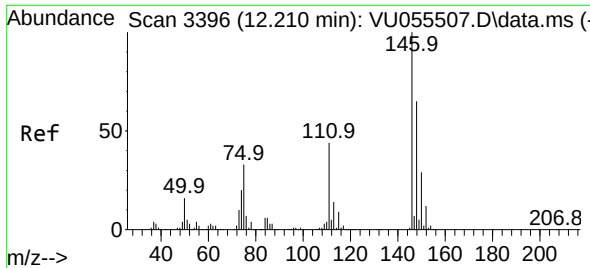
Tgt Ion:146 Resp: 933527
Ion Ratio Lower Upper
146 100
111 41.1 28.8 53.6
148 63.6 44.6 82.8



#65
1,4-Dichlorobenzene
Concen: 19.714 ug/L
RT: 11.833 min Scan# 3279
Delta R.T. -0.000 min
Lab File: VU055514.D
Acq: 26 Sep 2023 13:57

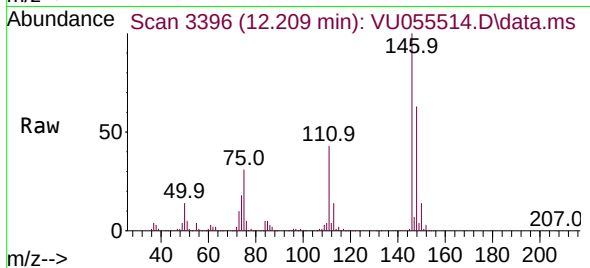
Tgt Ion:146 Resp: 933527
Ion Ratio Lower Upper
146 100
111 41.1 29.0 53.8
148 63.6 45.4 84.4



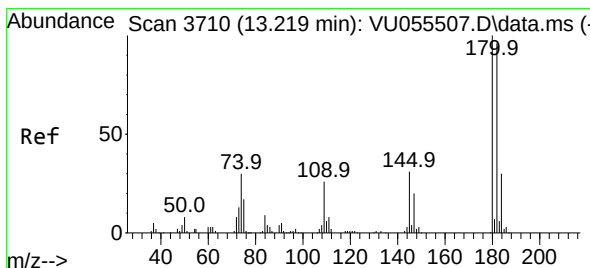
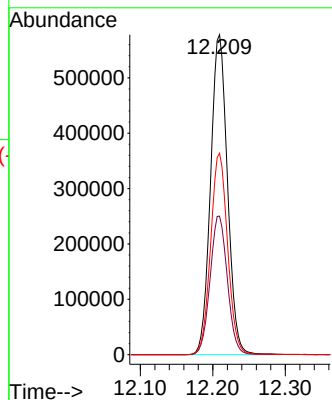
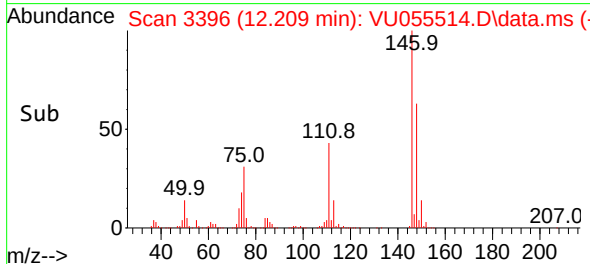


#67
1,2-Dichlorobenzene
Concen: 21.515 ug/L
RT: 12.209 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU055514.D
Acq: 26 Sep 2023 13:57

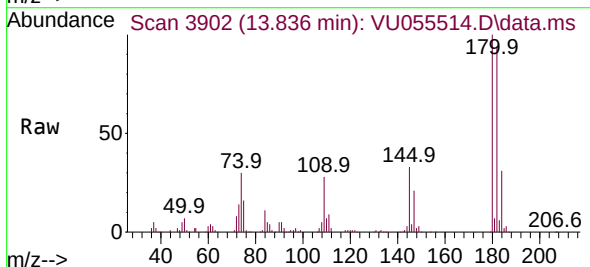
Instrument :
MSVOA_U
ClientSampleId :



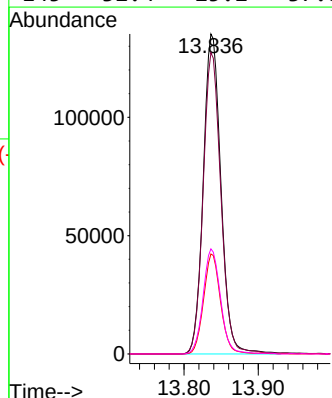
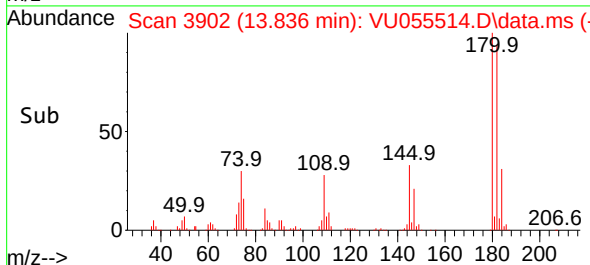
Tgt Ion:146 Resp: 934535
Ion Ratio Lower Upper
146 100
111 43.3 34.6 52.0
148 62.9 51.8 77.8

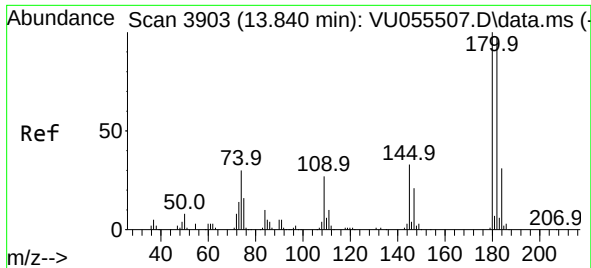


#69
1,3,5-Trichlorobenzene
Concen: 6.844 ug/L
RT: 13.836 min Scan# 3902
Delta R.T. 0.617 min
Lab File: VU055514.D
Acq: 26 Sep 2023 13:57



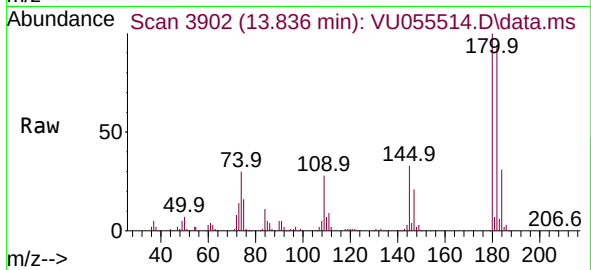
Tgt Ion:180 Resp: 223287
Ion Ratio Lower Upper
180 100
182 94.2 77.1 115.7
184 30.0 24.0 36.0
145 32.4 25.2 37.8





#70
 1,2,4-trichlorobenzene
 Concen: 8.977 ug/L
 RT: 13.836 min Scan# 3902
 Delta R.T. -0.003 min
 Lab File: VU055514.D
 Acq: 26 Sep 2023 13:57

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:180 Resp: 223287

Ion	Ratio	Lower	Upper
180	100		
182	94.2	76.4	114.6
145	32.4	25.4	38.0

