

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU090723\
 Data File : VU055207.D
 Acq On : 08 Sep 2023 00:08
 Operator : MD/SY
 Sample : 04306-06
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BH4H8

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Sep 08 06:37:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR090123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Sep 08 06:18:43 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.251	114	204887	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.418	117	205125	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.811	152	111958	5.000	ug/L	# 0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	42241	4.399	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.000%
7) Chloroethane-d5	1.907	69	39187	3.525	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	70.600%
11) 1,1-Dichloroethene-d2	2.563	65	19211	3.511	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.200%
20) 2-Butanone-d5	0.000	46	0d	0.000	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	0.000%#
24) Chloroform-d	5.065	84	111875	4.390	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.800%
26) 1,2-Dichloroethane-d4	5.701	65	59367	4.657	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.200%
32) Benzene-d6	5.730	84	212999	4.207	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.200%
36) 1,2-Dichloropropane-d6	6.701	67	72550	4.505	ug/L	0.01
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.000%
41) Toluene-d8	7.898	98	191985	4.116	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.400%
43) trans-1,3-Dichloroprop...	8.180	79	20866	4.705	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.000%
46) 2-Hexanone-d5	8.634	63	93391	51.869	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.740%
56) 1,1,2,2-Tetrachloroeth...	10.756	84	58865	5.197	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.000%
66) 1,2-Dichlorobenzene-d4	12.193	152	72432	4.432	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.600%
Target Compounds						
						Qvalue
3) Chloromethane	1.515	50	3439	0.284	ug/L	93
5) Vinyl chloride	1.599	62	1716960	134.275	ug/L	94
12) 1,1-Dichloroethene	2.576	96	252118	26.616	ug/L #	76
16) Methylene chloride	3.042	84	7176	0.496	ug/L	95
17) Methyl tert-butyl Ether	3.364	73	7833	0.315	ug/L #	82
18) trans-1,2-Dichloroethene	3.348	96	1020946	106.234	ug/L	97
22) cis-1,2-Dichloroethene	4.644	96	49040838m	4168.694	ug/L	
25) Chloroform	5.087	83	9928	0.459	ug/L	97
27) 1,2-Dichloroethane	5.798	62	17667	1.338	ug/L #	88
30) Cyclohexane	5.390	56	27210	1.725	ug/L	99
33) Benzene	5.775	78	97745	2.239	ug/L	100
34) Trichloroethene	6.534	95	43872775m	3615.987	ug/L	
35) Methylcyclohexane	6.769	83	84133	4.942	ug/L #	69
42) Toluene	7.971	91	25851	0.555	ug/L	86
45) 1,1,2-Trichloroethane	8.399	97	173835	21.715	ug/L	98
47) Tetrachloroethene	8.553	164	93376	11.135	ug/L	95
51) Chlorobenzene	9.444	112	1000553	32.460	ug/L	98
53) m,p-Xylene	9.695	106	3905	0.203	ug/L	90
54) o-Xylene	10.100	106	8030	0.424	ug/L	88

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
60) Isopropylbenzene	10.483	105	39462	0.756	ug/L	#	84
63) 1,2,4-Trimethylbenzene	11.470	105	6783	0.158	ug/L		92
64) 1,3-Dichlorobenzene	11.743	146	2198284	87.711	ug/L		99
65) 1,4-Dichlorobenzene	11.836	146	3598492	144.062	ug/L		97
67) 1,2-Dichlorobenzene	12.209	146	1894178	80.611	ug/L		99
70) 1,2,4-trichlorobenzene	13.843	180	16386788m	922.690	ug/L		
72) 1,2,3-Trichlorobenzene	14.331	180	4159726	269.849	ug/L		99

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 Dadoda

09/14/2023

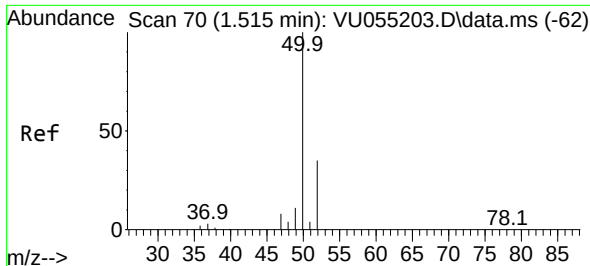
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Abundance

09/14/2023





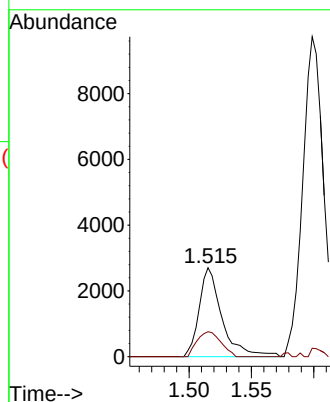
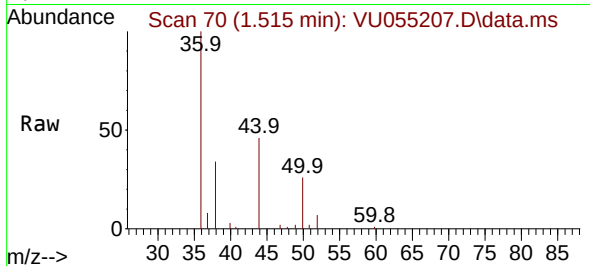
#3
Chloromethane
Concen: 0.284 ug/L
RT: 1.515 min Scan# 70
Delta R.T. 0.000 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Instrument :
MSVOA_U
ClientSampleId :
BH4H8

Tgt Ion: 50 Resp: 3439
Ion Ratio Lower Upper
50 100
52 28.0 22.5 41.7

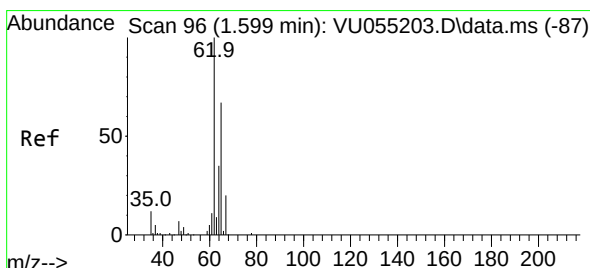
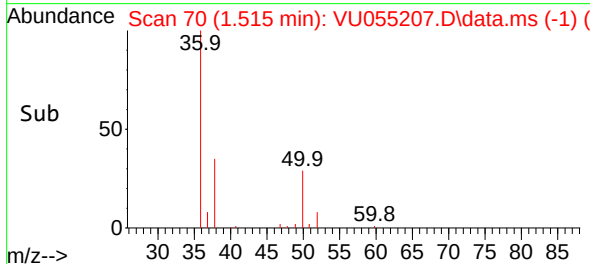
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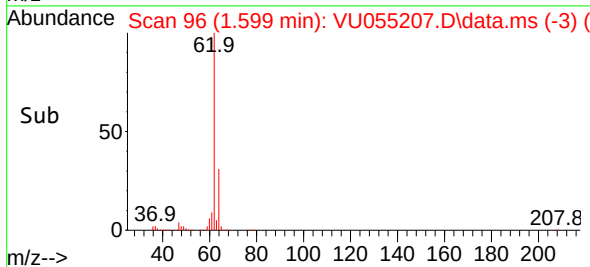
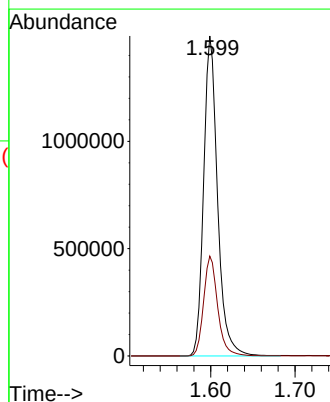
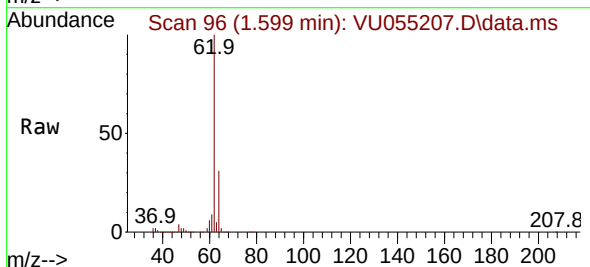
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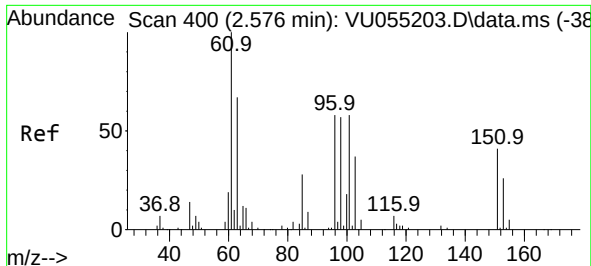
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#5
Vinyl chloride
Concen: 134.275 ug/L
RT: 1.599 min Scan# 96
Delta R.T. 0.000 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

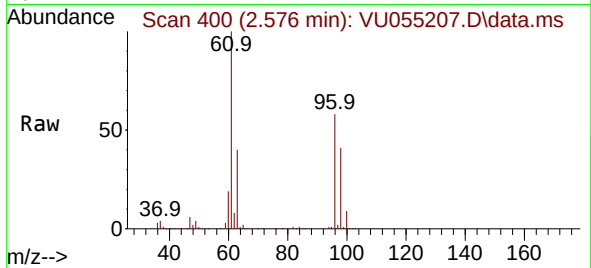
Tgt Ion: 62 Resp: 1716960
Ion Ratio Lower Upper
62 100
64 31.2 24.2 45.0





#12
1,1-Dichloroethene
Concen: 26.616 ug/L
RT: 2.576 min Scan# 400
Delta R.T. 0.000 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

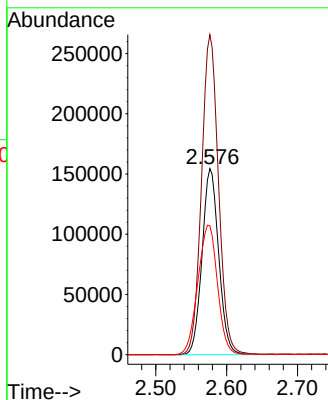
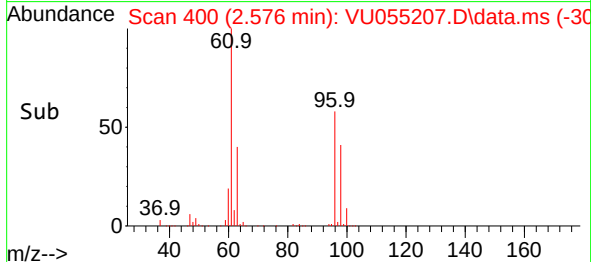
Instrument :
MSVOA_U
ClientSampleId :
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Tgt Ion: 96 Resp: 252118
Ion Ratio Lower Upper
96 100
61 172.0 120.8 224.4
63 69.3 94.5 175.5

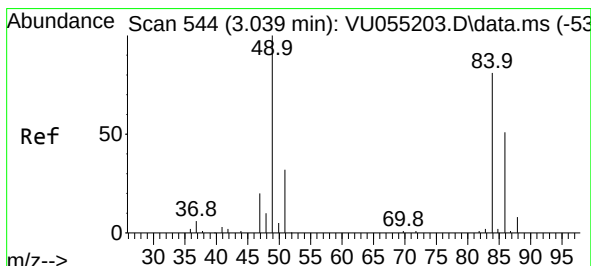
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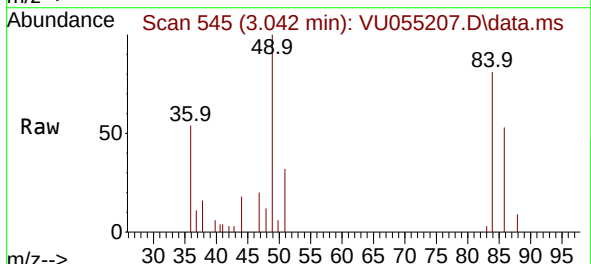


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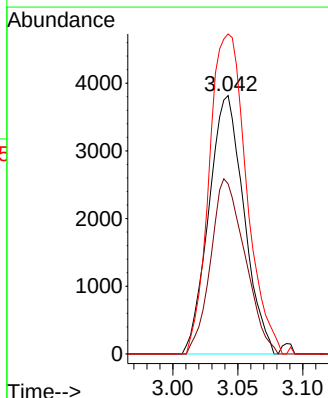
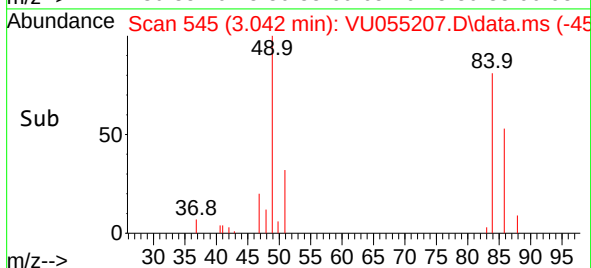
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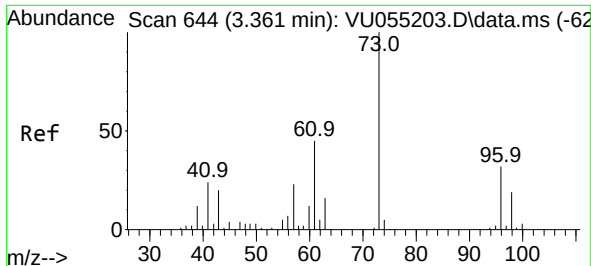


#16
Methylene chloride
Concen: 0.496 ug/L
RT: 3.042 min Scan# 545
Delta R.T. 0.003 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08



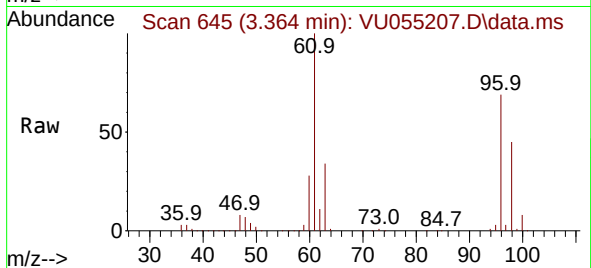
Tgt Ion: 84 Resp: 7176
Ion Ratio Lower Upper
84 100
86 65.8 43.4 80.6
49 131.4 87.7 162.9





#17
Methyl tert-butyl Ether
Concen: 0.315 ug/L
RT: 3.364 min Scan# 644
Delta R.T. 0.003 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

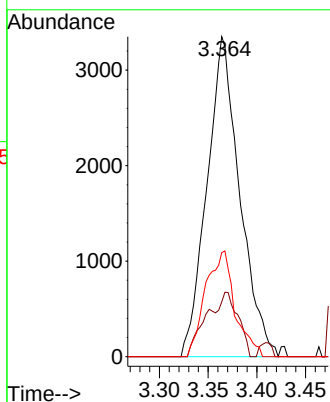
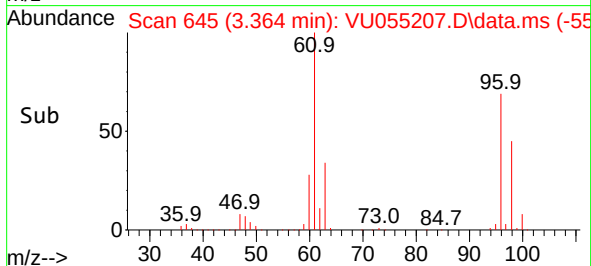
Instrument :
MSVOA_U
ClientSampleId :
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Tgt Ion: 73 Resp: 783
Ion Ratio Lower Upper
73 100
43 11.6 16.2 24.2
57 29.6 17.4 26.2

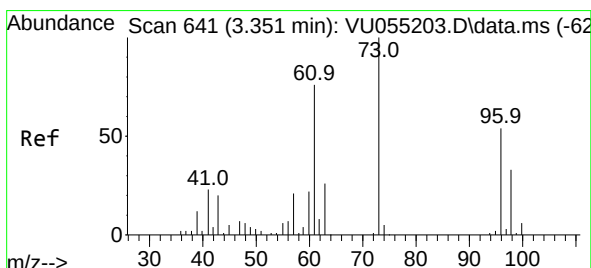
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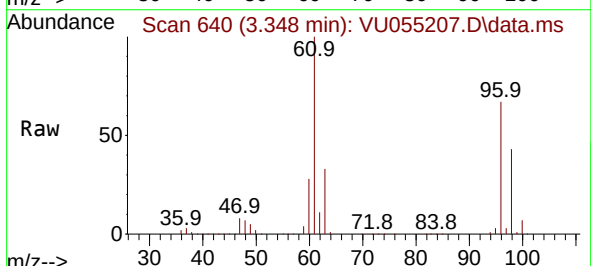


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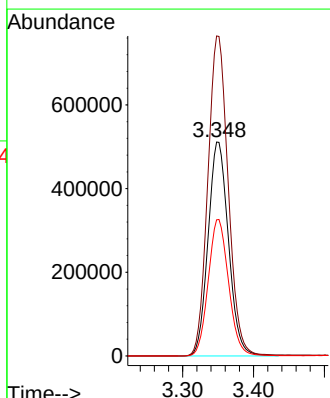
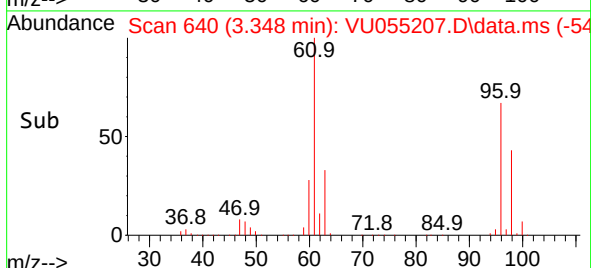
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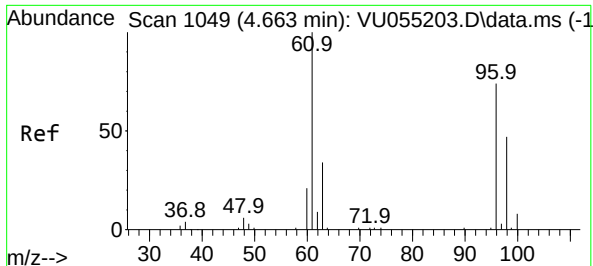


#18
trans-1,2-Dichloroethene
Concen: 106.234 ug/L
RT: 3.348 min Scan# 640
Delta R.T. -0.003 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08



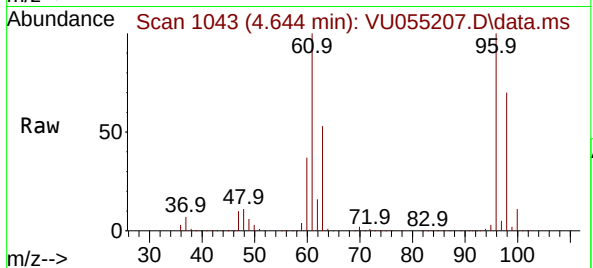
Tgt Ion: 96 Resp: 1020946
Ion Ratio Lower Upper
96 100
61 149.6 108.1 200.9
98 63.7 45.4 84.4





#22
cis-1,2-Dichloroethene
Concen: 4168.694 ug/L m
RT: 4.644 min Scan# 1043
Delta R.T. -0.019 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

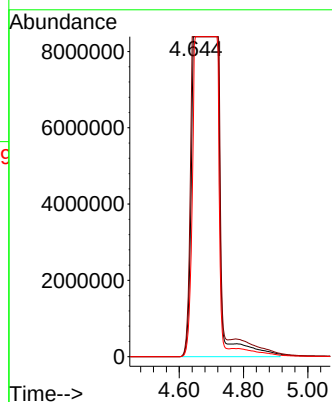
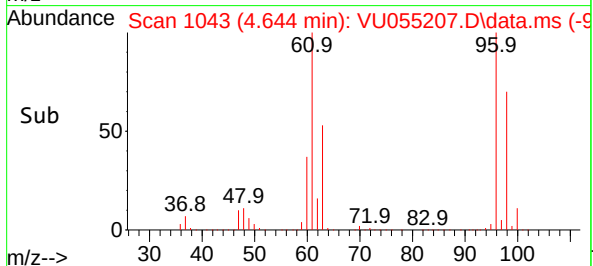
Instrument :
MSVOA_U
ClientSampleId :
BH4H8



Tgt Ion: 96 Resp: 4904083
Ion Ratio Lower Upper
96 100
61 100.0 97.2 180.4
98 70.2 46.1 85.7

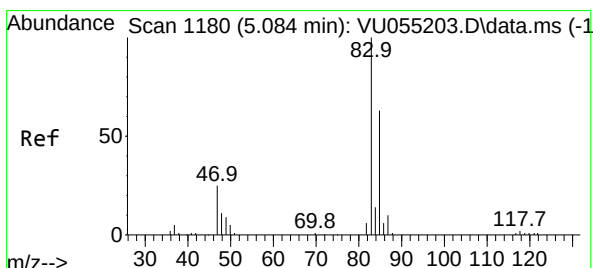
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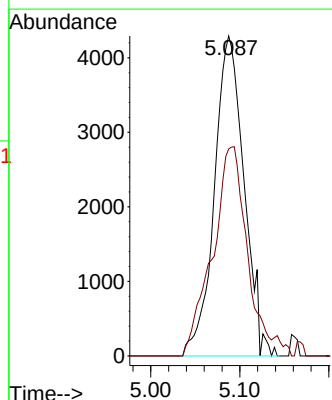
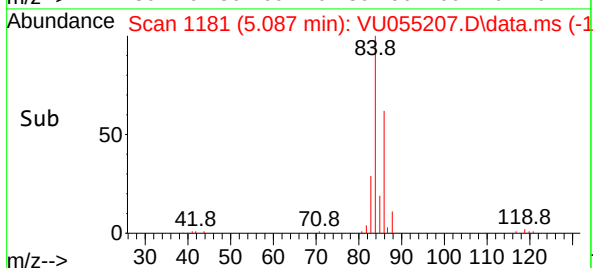
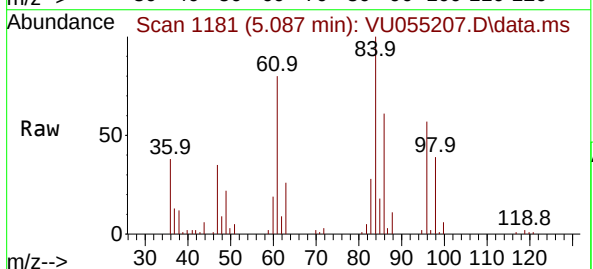
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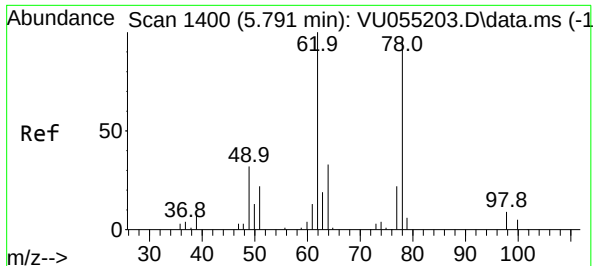
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#25
Chloroform
Concen: 0.459 ug/L
RT: 5.087 min Scan# 1181
Delta R.T. 0.003 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Tgt Ion: 83 Resp: 9928
Ion Ratio Lower Upper
83 100
85 64.7 47.2 87.6





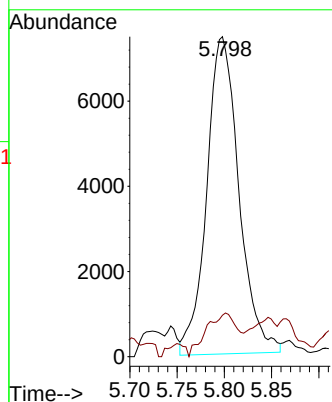
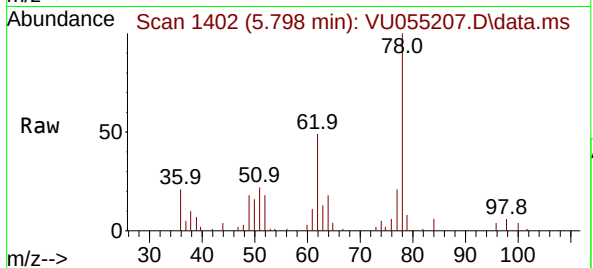
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1,2-Dichloroethane
Concen: 1.338 ug/L
RT: 5.798 min Scan# 1400
Delta R.T. 0.006 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Instrument :
MSVOA_U
ClientSampleId :
BH4H8

Tgt Ion: 62 Resp: 1766
Ion Ratio Lower Upper
62 100
98 12.9 6.9 10.3

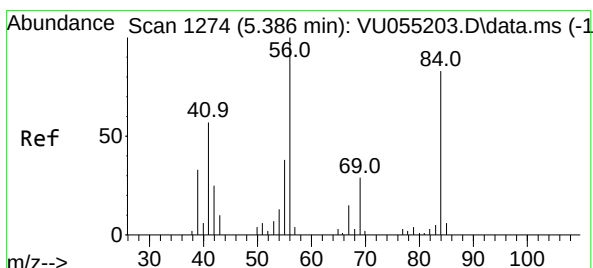
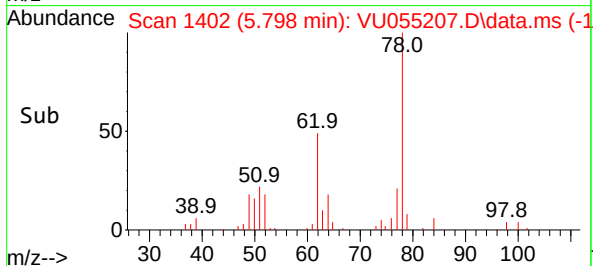
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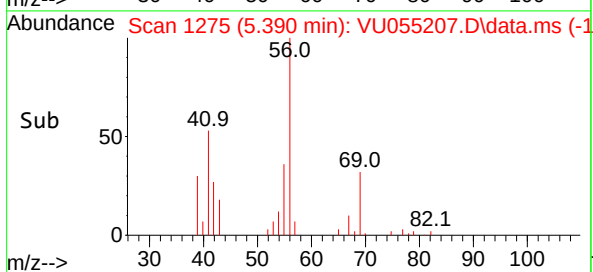
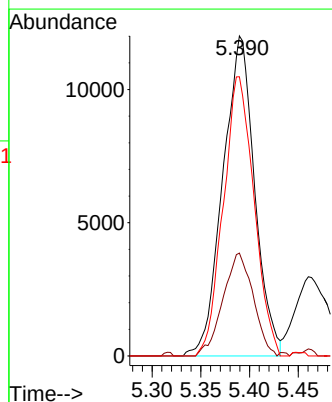
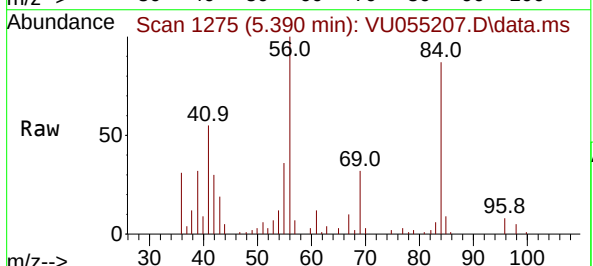
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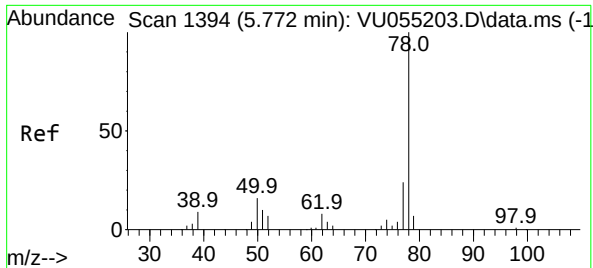
09/14/2023



#30
Cyclohexane
Concen: 1.725 ug/L
RT: 5.390 min Scan# 1275
Delta R.T. 0.003 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Tgt Ion: 56 Resp: 27210
Ion Ratio Lower Upper
56 100
69 30.6 24.6 37.0
84 84.4 68.8 103.2





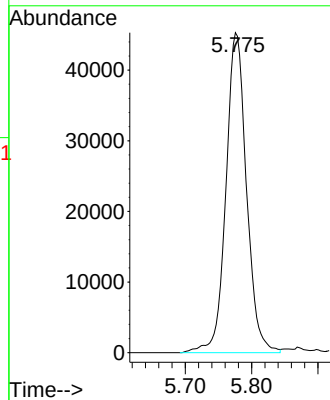
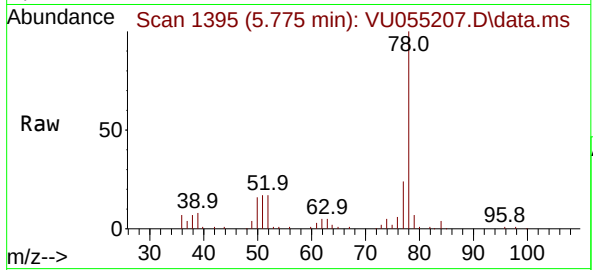
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Benzene
Concen: 2.239 ug/L
RT: 5.775 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Instrument :
MSVOA_U
ClientSampleId :
BH4H8

Tgt Ion: 78 Resp: 9774

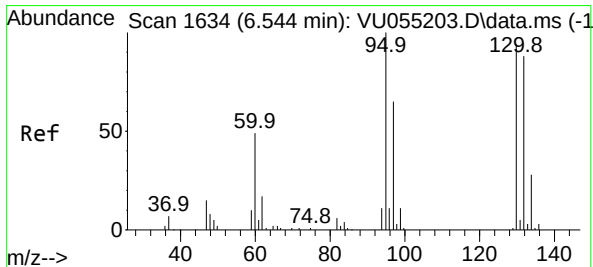
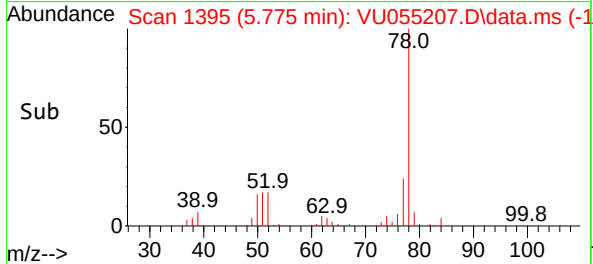
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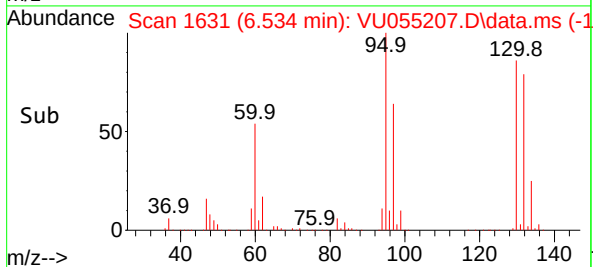
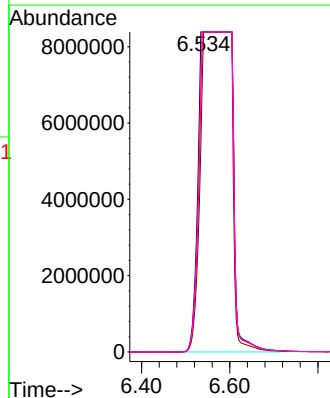
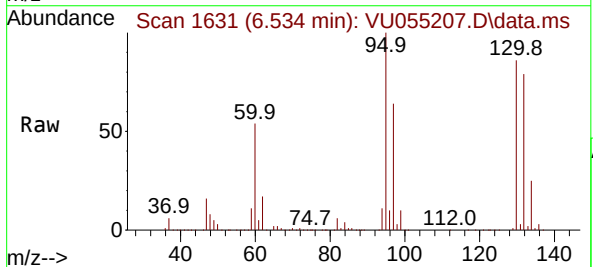
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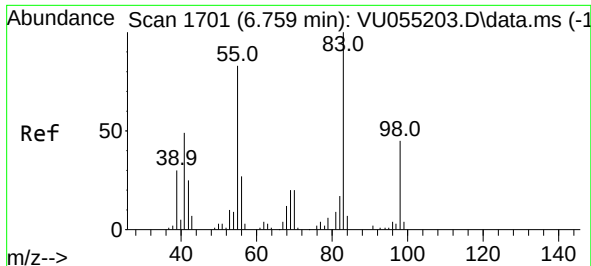


#34
Trichloroethene
Concen: 3615.987 ug/L m
RT: 6.534 min Scan# 1631
Delta R.T. -0.010 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Tgt Ion: 95 Resp:43872775

Ion	Ratio	Lower	Upper
95	100		
97	64.2	44.7	83.1
132	79.1	66.6	123.6
130	85.7	66.5	123.5





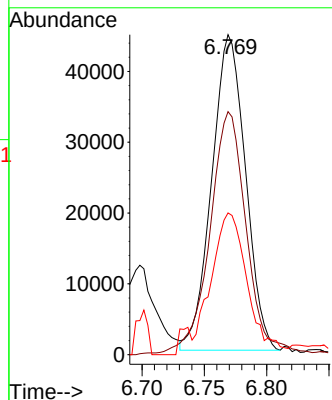
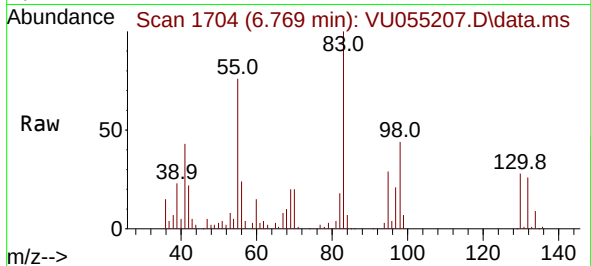
#35
Methylcyclohexane
Concen: 4.942 ug/L
RT: 6.769 min Scan# 1701
Delta R.T. 0.010 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Instrument :
MSVOA_U
ClientSampleId :
BH4H8

Tgt Ion: 83 Resp: 8413
Ion Ratio Lower Upper
83 100
55 83.6 60.4 90.6
98 0.0 35.3 52.9

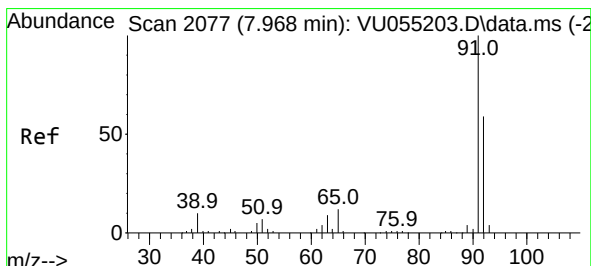
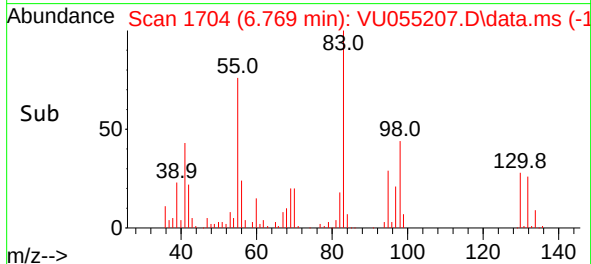
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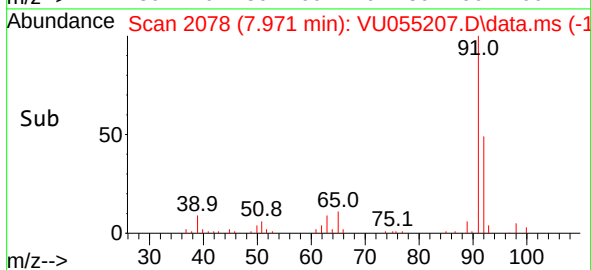
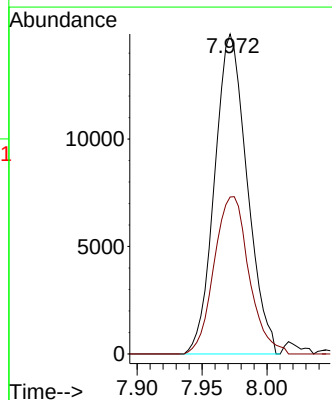
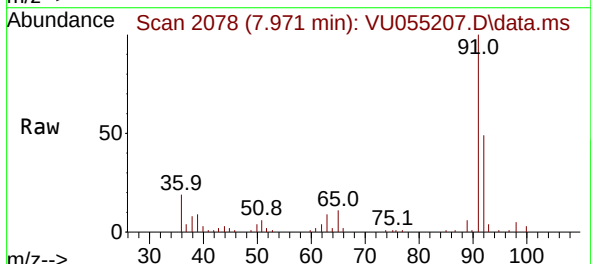
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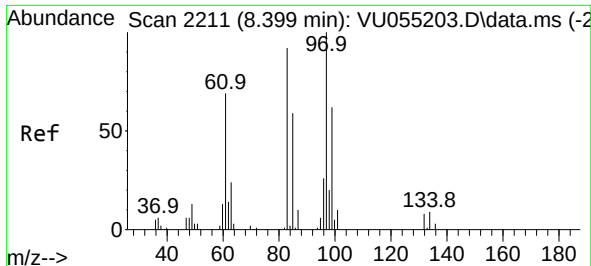
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#42
Toluene
Concen: 0.555 ug/L
RT: 7.971 min Scan# 2078
Delta R.T. 0.003 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Tgt Ion: 91 Resp: 25851
Ion Ratio Lower Upper
91 100
92 49.1 41.9 77.9





#45

1,1,2-Trichloroethane

Concen: 21.715 ug/L

RT: 8.399 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU055207.D

Acq: 08 Sep 2023 00:08

Instrument :

MSVOA_U

ClientSampleId :

BH4H8

Tgt Ion: 97 Resp: 17383

Ion Ratio Lower Upper

97 100

99 63.7 44.9 83.5

83 93.2 66.9 124.3

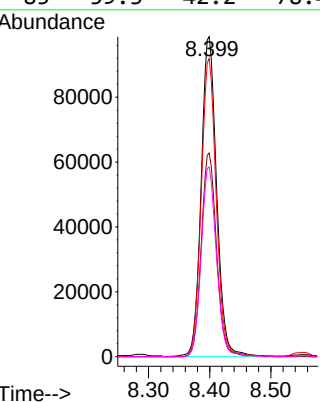
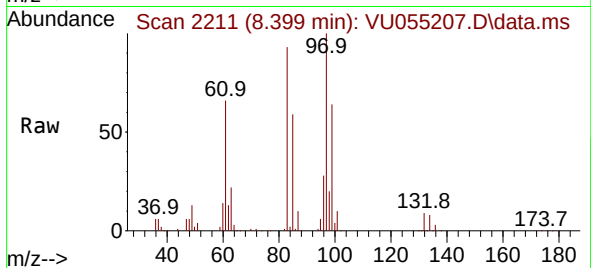
85 59.3 42.2 78.4

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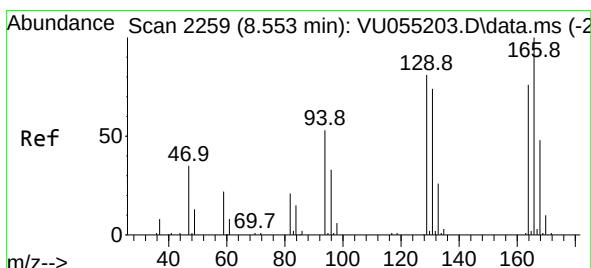
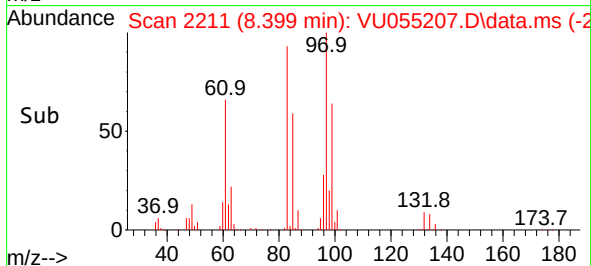


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#47

Tetrachloroethene

Concen: 11.135 ug/L

RT: 8.553 min Scan# 2259

Delta R.T. 0.000 min

Lab File: VU055207.D

Acq: 08 Sep 2023 00:08

Tgt Ion:164 Resp: 93376

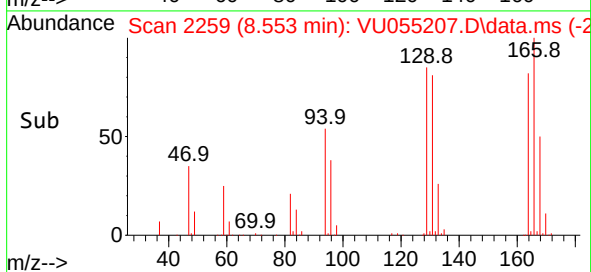
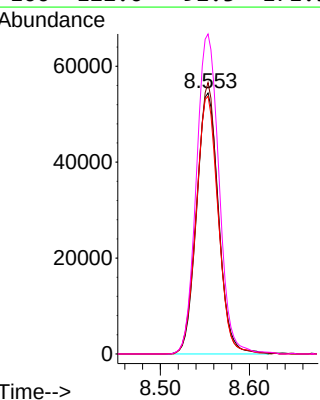
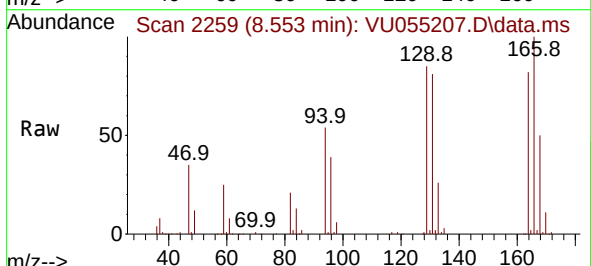
Ion Ratio Lower Upper

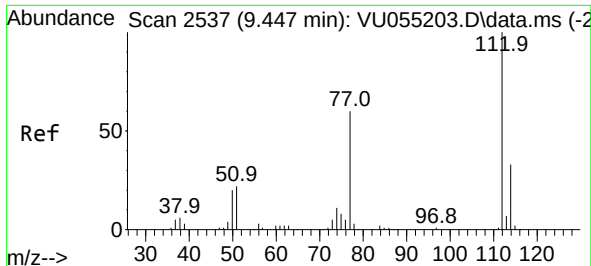
164 100

129 104.0 69.2 128.6

131 98.7 68.8 127.8

166 122.6 92.3 171.5





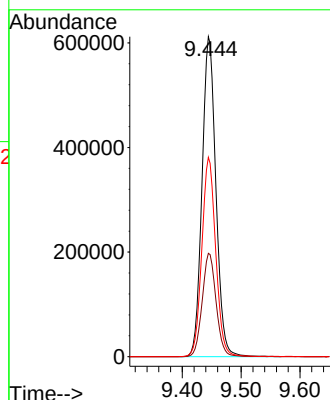
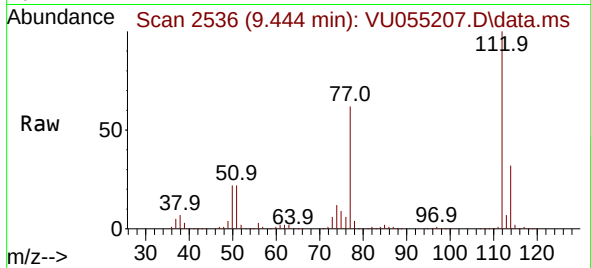
#51
Chlorobenzene
Concen: 32.460 ug/L
RT: 9.444 min Scan# 2112
Delta R.T. -0.003 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Instrument :
MSVOA_U
ClientSampleId :
BH4H8

Tgt Ion:112 Resp: 100055
Ion Ratio Lower Upper
112 100
114 32.3 21.7 40.3
77 62.3 48.6 72.8

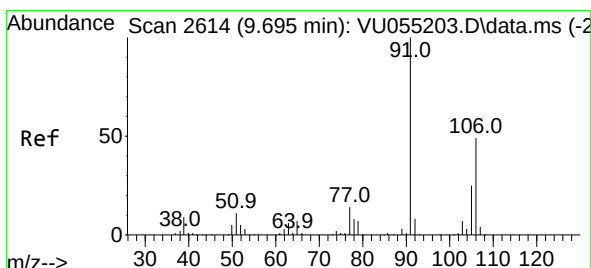
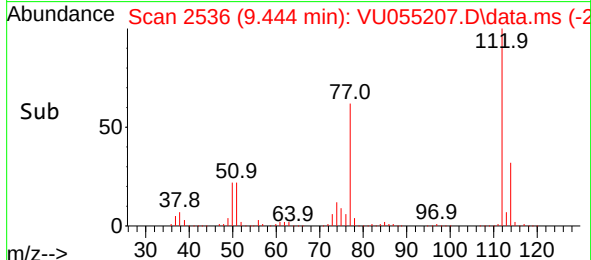
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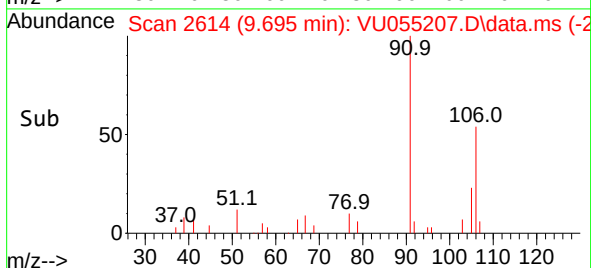
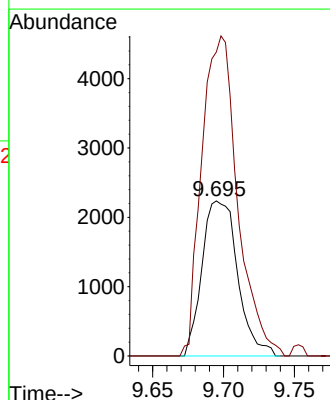
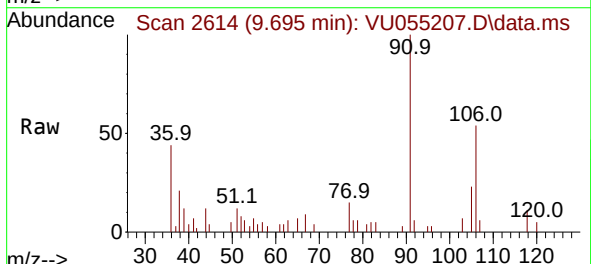
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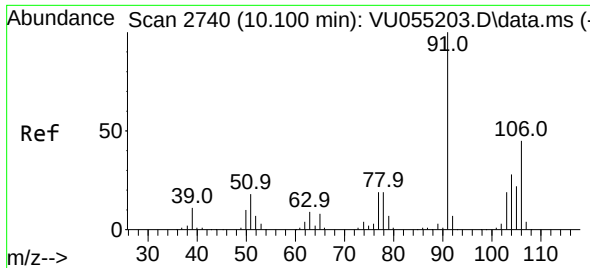
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#53
m,p-Xylene
Concen: 0.203 ug/L
RT: 9.695 min Scan# 2614
Delta R.T. 0.000 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Tgt Ion:106 Resp: 3905
Ion Ratio Lower Upper
106 100
91 196.2 148.3 275.5





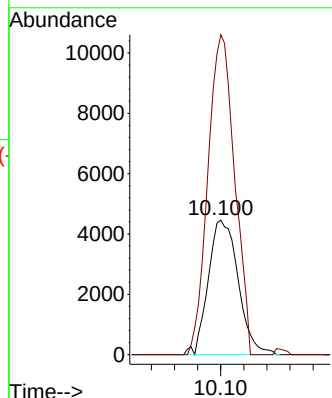
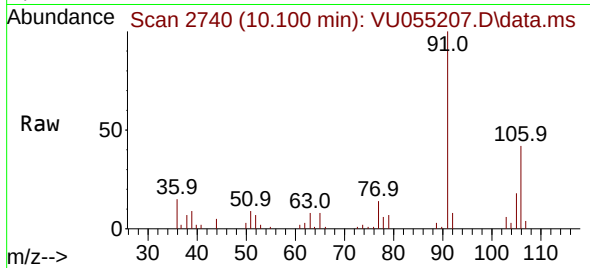
#54
o-Xylene
Concen: 0.424 ug/L
RT: 10.100 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Instrument :
MSVOA_U
ClientSampleId :
BH4H8

Tgt Ion:106 Resp: 8030
Ion Ratio Lower Upper
106 100
91 237.8 152.9 284.1

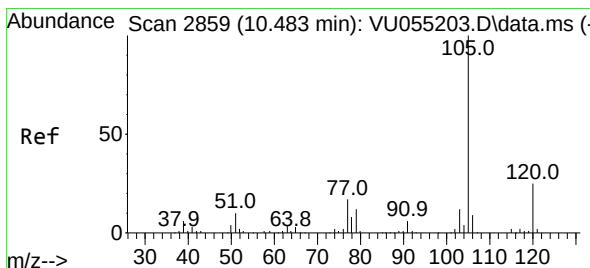
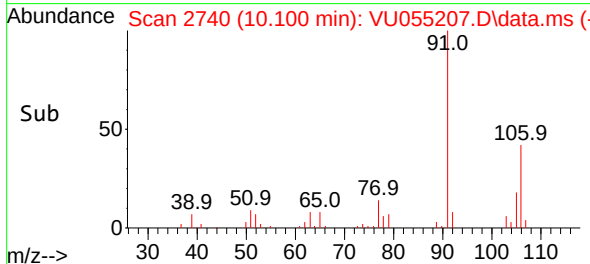
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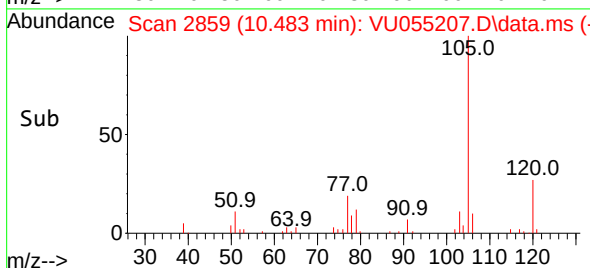
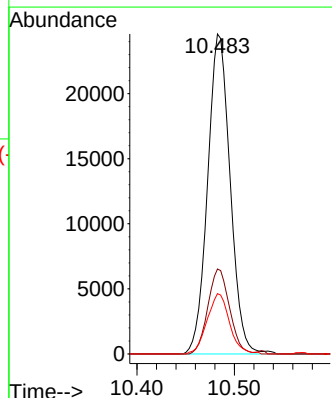
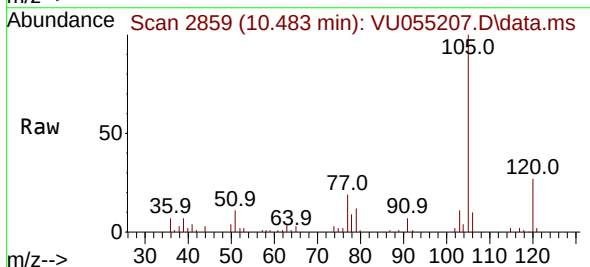
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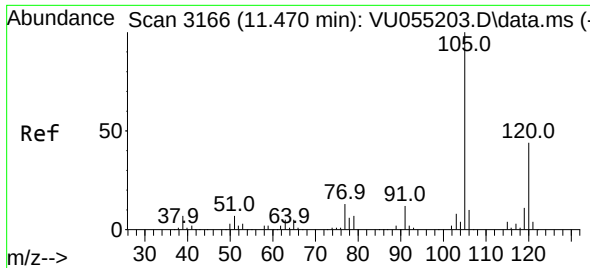
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#60
Isopropylbenzene
Concen: 0.756 ug/L
RT: 10.483 min Scan# 2859
Delta R.T. 0.000 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Tgt Ion:105 Resp: 39462
Ion Ratio Lower Upper
105 100
120 25.5 20.1 30.1
77 0.0 13.4 20.0#





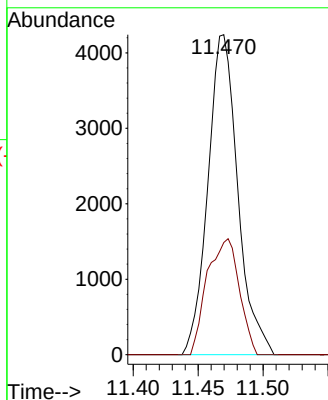
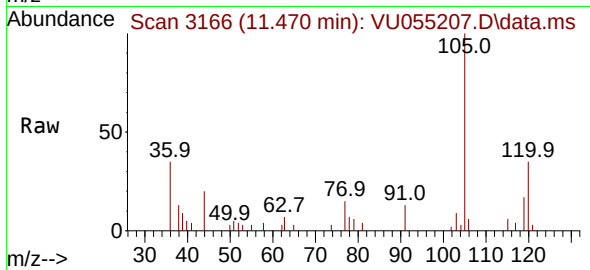
#63
1,2,4-Trimethylbenzene
Concen: 0.158 ug/L
RT: 11.470 min Scan# 3166
Delta R.T. 0.000 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Instrument :
MSVOA_U
ClientSampleId :
BH4H8

Tgt Ion:105 Resp: 678
Ion Ratio Lower Upper
105 100
120 38.8 35.4 53.0

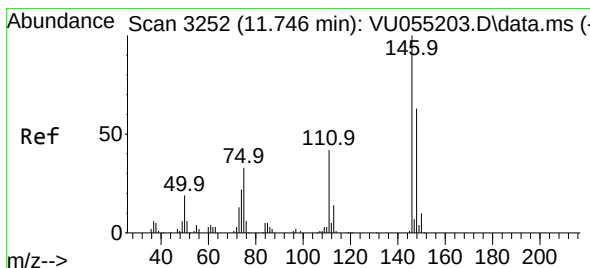
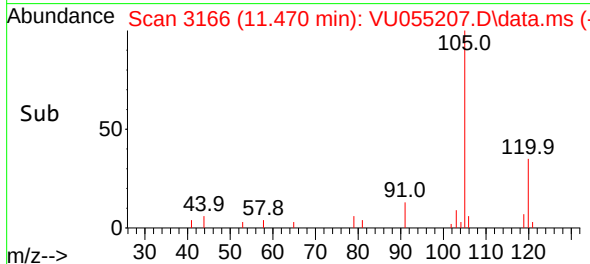
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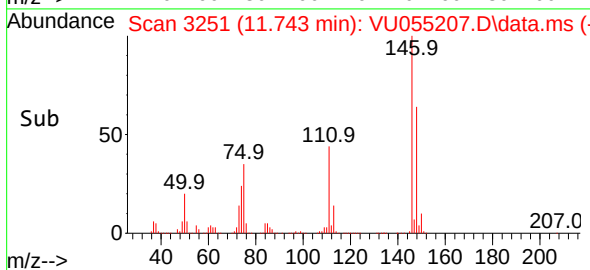
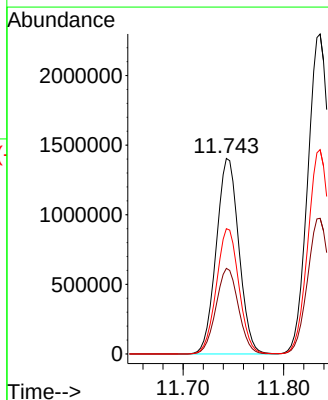
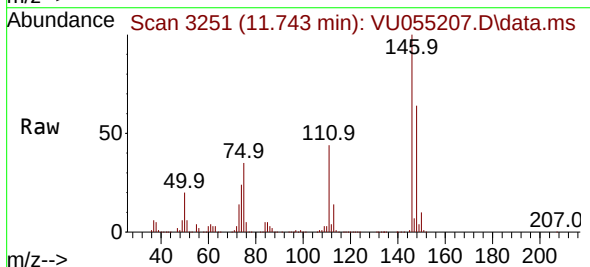
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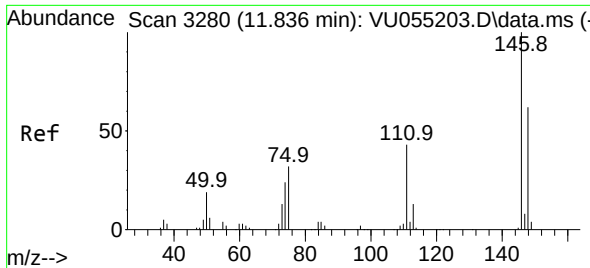
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#64
1,3-Dichlorobenzene
Concen: 87.711 ug/L
RT: 11.743 min Scan# 3251
Delta R.T. -0.003 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

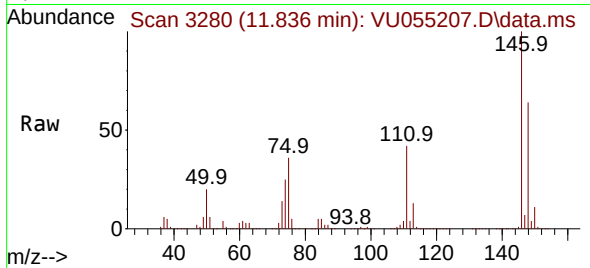
Tgt Ion:146 Resp: 2198284
Ion Ratio Lower Upper
146 100
111 43.8 30.0 55.6
148 64.1 45.2 84.0





#65
1,4-Dichlorobenzene
Concen: 144.062 ug/L
RT: 11.836 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

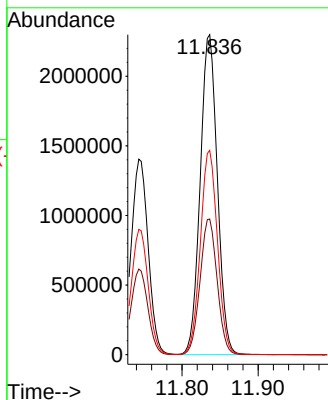
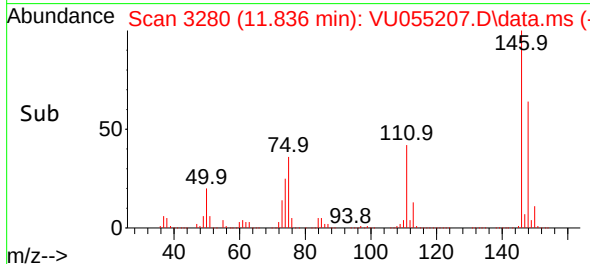
Instrument :
MSVOA_U
ClientSampleId :
BH4H8



Tgt Ion:146 Resp: 3598492
Ion Ratio Lower Upper
146 100
111 42.4 28.1 52.1
148 63.8 43.8 81.3

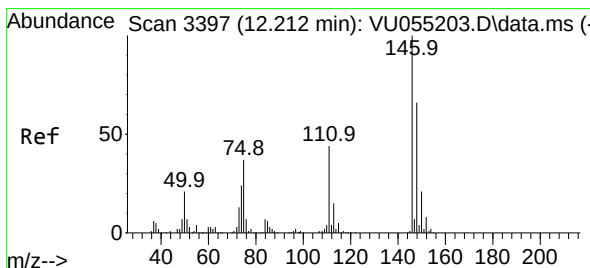
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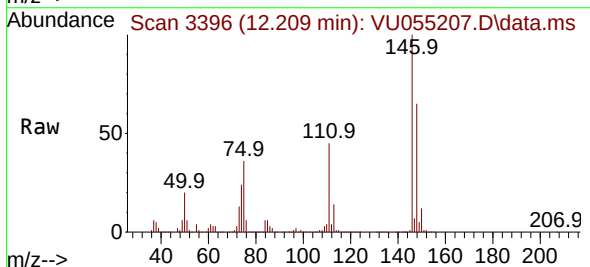


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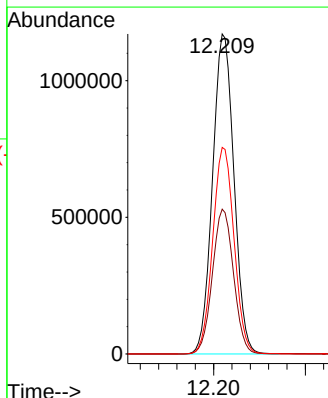
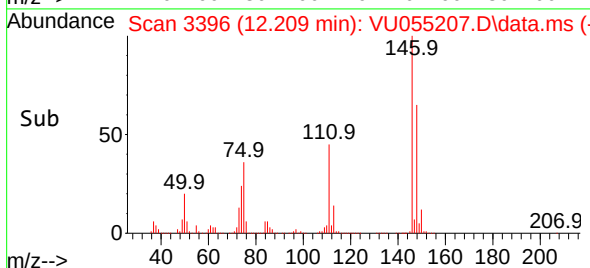
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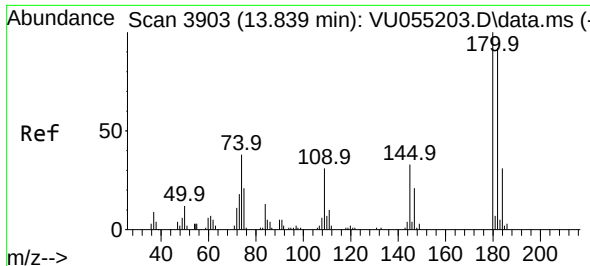


#67
1,2-Dichlorobenzene
Concen: 80.611 ug/L
RT: 12.209 min Scan# 3396
Delta R.T. -0.003 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08



Tgt Ion:146 Resp: 1894178
Ion Ratio Lower Upper
146 100
111 45.3 35.6 53.4
148 64.5 51.3 76.9





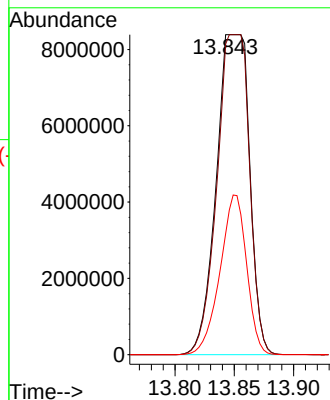
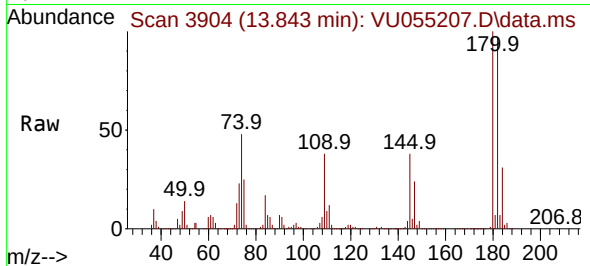
#70
1,2,4-trichlorobenzene
Concen: 922.690 ug/L m
RT: 13.843 min Scan# 3903
Delta R.T. 0.003 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Instrument :
MSVOA_U
ClientSampleId :
BH4H8

Tgt Ion:180 Resp:1638678
Ion Ratio Lower Upper
180 100
182 0.0 73.6 110.4
145 0.0 25.8 38.8

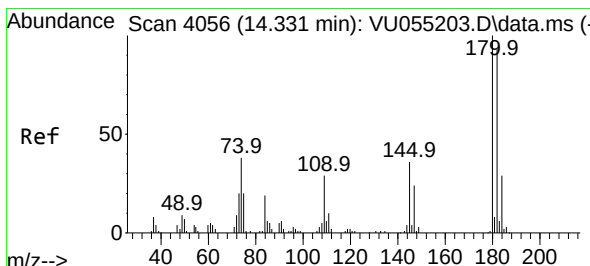
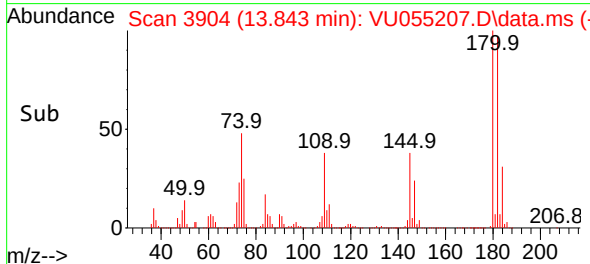
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#72
1,2,3-Trichlorobenzene
Concen: 269.849 ug/L
RT: 14.331 min Scan# 4056
Delta R.T. 0.000 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Tgt Ion:180 Resp: 4159726
Ion Ratio Lower Upper
180 100
182 95.1 75.6 113.4
145 35.2 27.0 40.6

