

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102722\
 Data File : VU051560.D
 Acq On : 27 Oct 2022 23:53
 Operator : JC/MD
 Sample : N5300-12DL 100X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BHA78DL

Quant Time: Oct 28 00:14:27 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR100722WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Oct 28 00:08:00 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	264848	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	257063	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	128017	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	76792	3.595	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	71.800%
7) Chloroethane-d5	1.909	69	75834	4.131	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.600%
11) 1,1-Dichloroethene-d2	2.565	65	28228	3.343	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	66.800%
20) 2-Butanone-d5	4.623	46	231611	49.241	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.480%
24) Chloroform-d	5.064	84	158555	3.981	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.600%
26) 1,2-Dichloroethane-d4	5.700	65	83685	4.074	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.400%
32) Benzene-d6	5.726	84	310890	4.396	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.000%
36) 1,2-Dichloropropane-d6	6.690	67	105696	4.401	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.000%
41) Toluene-d8	7.896	98	230426	3.642	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	72.800%
43) trans-1,3-Dichloroprop...	8.179	79	29615	3.753	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	75.000%
46) 2-Hexanone-d5	8.632	63	177216	66.639	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	133.280%#
56) 1,1,2,2-Tetrachloroeth...	10.755	84	87663	4.569	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.400%
66) 1,2-Dichlorobenzene-d4	12.192	152	91285	4.103	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	82.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.601	62	7783	0.262	ug/L #	1
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	6054	0.294	ug/L #	87
16) Methylene chloride	3.044	84	13216	0.463	ug/L	91
19) 1,1-Dichloroethane	3.864	63	40733	0.971	ug/L	95
22) cis-1,2-Dichloroethene	4.665	96	199363	8.858	ug/L	95
29) 1,1,1-Trichloroethane	5.311	97	8878	0.288	ug/L	97
30) Cyclohexane	5.385	56	4626	0.177	ug/L	88
33) Benzene	5.771	78	805166	9.382	ug/L	100
35) Methylcyclohexane	6.764	83	3565	0.132	ug/L	94
42) Toluene	7.967	91	4142362	45.474	ug/L	100
51) Chlorobenzene	9.449	112	16347	0.300	ug/L	96
52) Ethylbenzene	9.568	91	378470	4.623	ug/L	96
53) m,p-Xylene	9.690	106	367636	11.580	ug/L	96
54) o-Xylene	10.099	106	124218	4.135	ug/L	99
60) Isopropylbenzene	10.481	105	26723	0.330	ug/L	98
62) 1,3,5-Trimethylbenzene	11.086	105	91862	4.271	ug/L	99
63) 1,2,4-Trimethylbenzene	11.468	105	344254	5.659	ug/L	98
65) 1,4-Dichlorobenzene	11.835	146	5622	0.142	ug/L	96
67) 1,2-Dichlorobenzene	12.211	146	17111	0.439	ug/L	97

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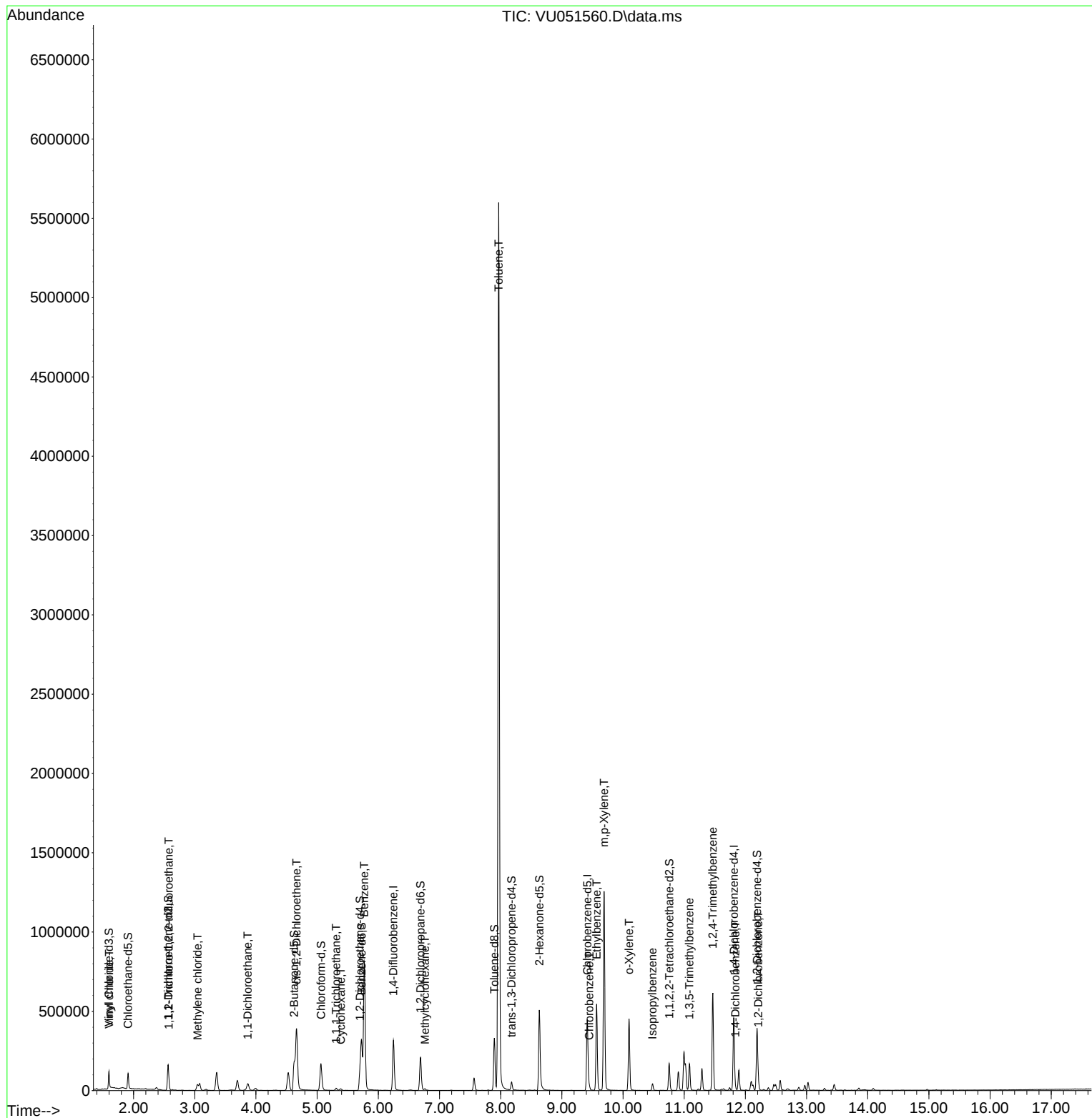
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

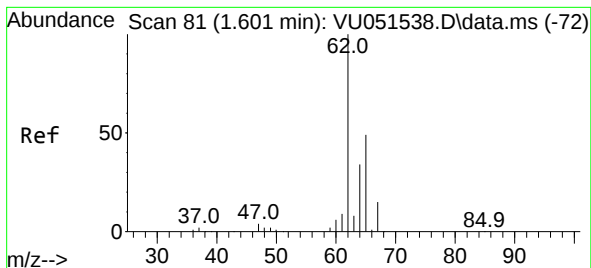
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.262 ug/L

RT: 1.601 min Scan# 81

Delta R.T. 0.000 min

Lab File: VU051560.D

Acq: 27 Oct 2022 23:53

Instrument :

MSVOA_U

ClientSampleId :

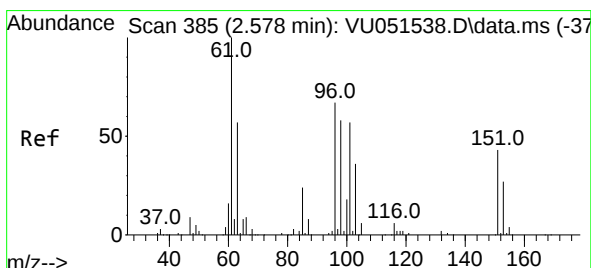
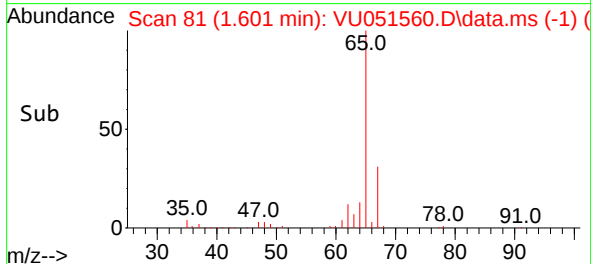
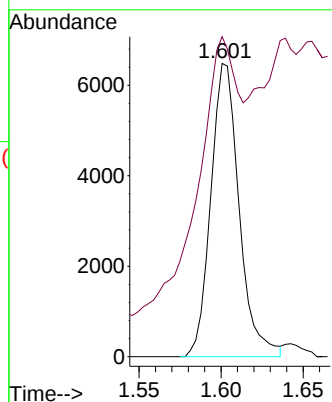
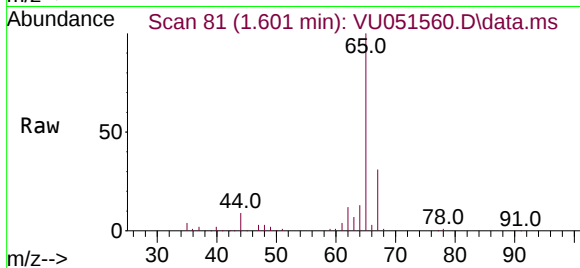
BHA78DL

Tgt Ion: 62 Resp: 7783

Ion Ratio Lower Upper

62 100

64 109.1 24.0 44.6#



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.294 ug/L

RT: 2.575 min Scan# 384

Delta R.T. -0.003 min

Lab File: VU051560.D

Acq: 27 Oct 2022 23:53

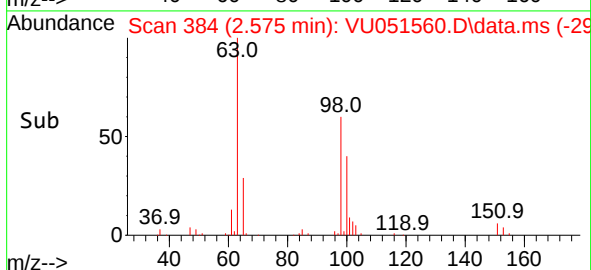
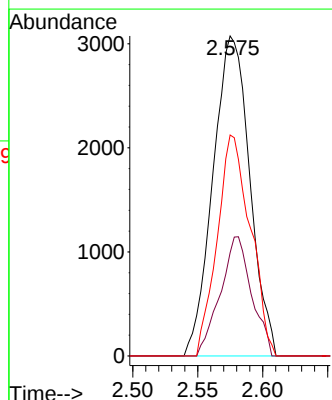
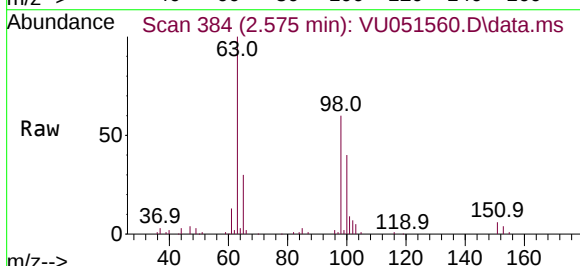
Tgt Ion: 101 Resp: 6054

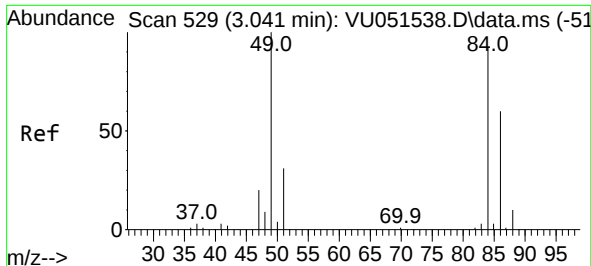
Ion Ratio Lower Upper

101 100

85 31.7 34.6 51.8#

151 62.2 56.5 84.7

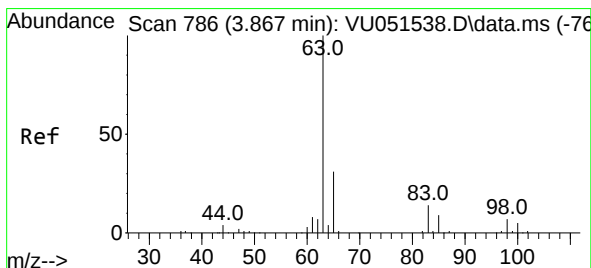
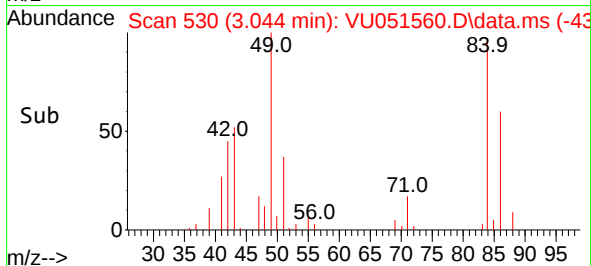
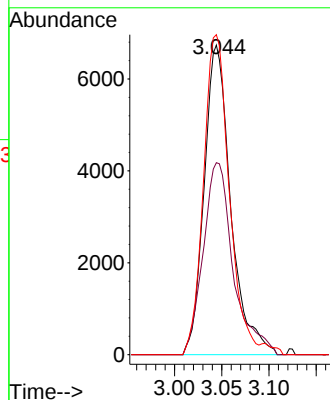
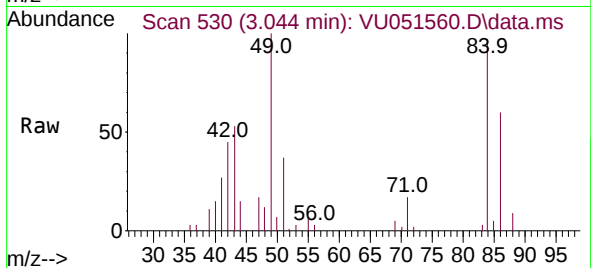




#16
Methylene chloride
Concen: 0.463 ug/L
RT: 3.044 min Scan# 51
Delta R.T. 0.003 min
Lab File: VU051560.D
Acq: 27 Oct 2022 23:53

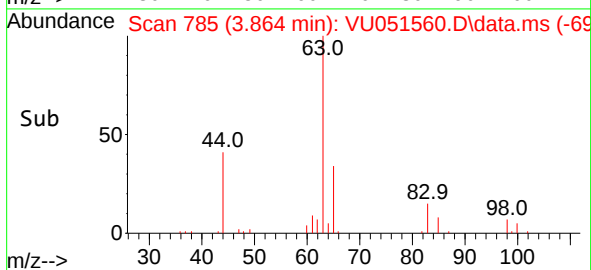
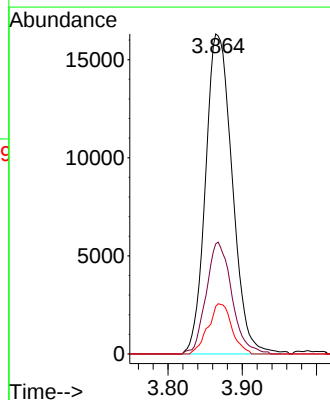
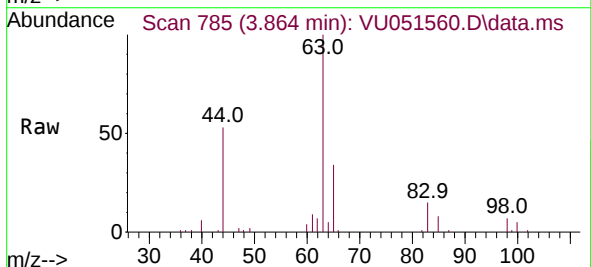
Instrument :
MSVOA_U
ClientSampleId :
BHA78DL

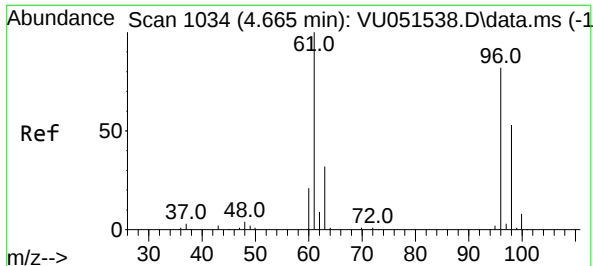
Tgt Ion: 84 Resp: 13216
Ion Ratio Lower Upper
84 100
86 62.0 46.5 86.3
49 103.4 81.3 151.1



#19
1,1-Dichloroethane
Concen: 0.971 ug/L
RT: 3.864 min Scan# 785
Delta R.T. -0.003 min
Lab File: VU051560.D
Acq: 27 Oct 2022 23:53

Tgt Ion: 63 Resp: 40733
Ion Ratio Lower Upper
63 100
65 34.4 22.0 41.0
83 14.9 9.0 16.6





#22

cis-1,2-Dichloroethene

Concen: 8.858 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. 0.000 min

Lab File: VU051560.D

Acq: 27 Oct 2022 23:53

Instrument :

MSVOA_U

ClientSampleId :

BHA78DL

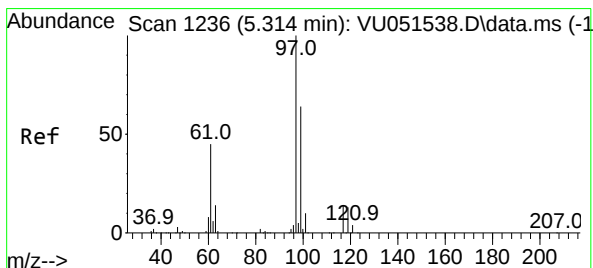
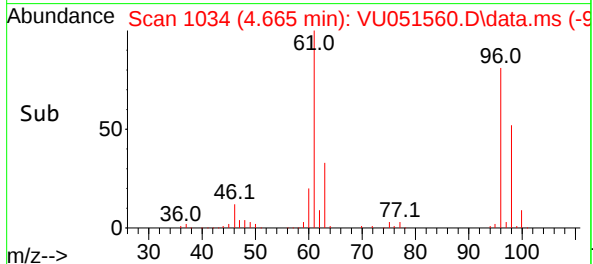
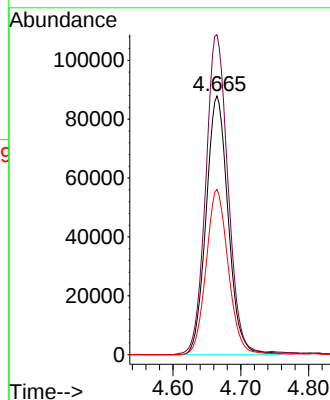
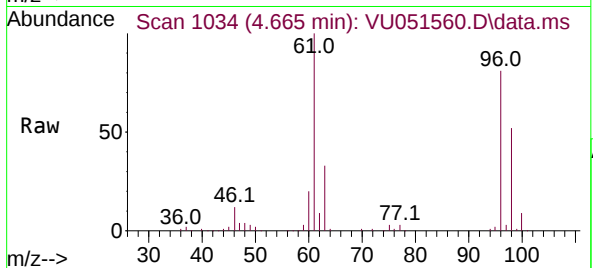
Tgt Ion: 96 Resp: 199363

Ion Ratio Lower Upper

96 100

61 123.7 90.6 168.2

98 63.9 47.5 88.3



#29

1,1,1-Trichloroethane

Concen: 0.288 ug/L

RT: 5.311 min Scan# 1235

Delta R.T. -0.003 min

Lab File: VU051560.D

Acq: 27 Oct 2022 23:53

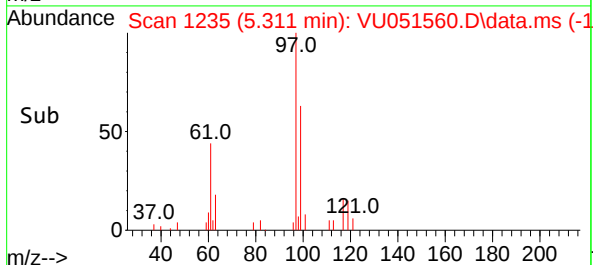
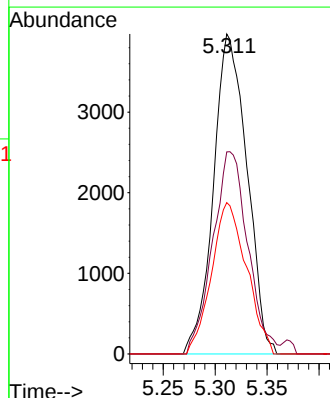
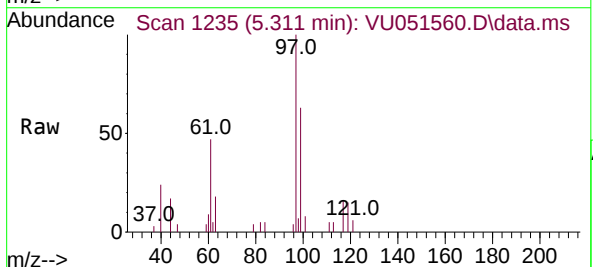
Tgt Ion: 97 Resp: 8878

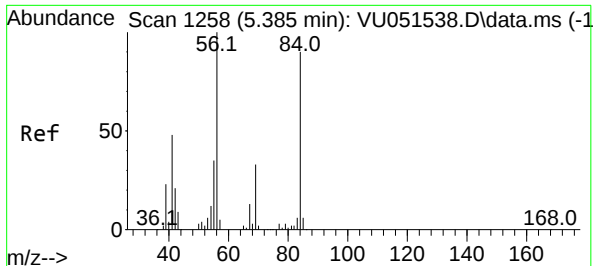
Ion Ratio Lower Upper

97 100

99 66.5 50.2 75.4

61 49.5 38.7 58.1





#30

Cyclohexane

Concen: 0.177 ug/L

RT: 5.385 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU051560.D

Acq: 27 Oct 2022 23:53

Instrument :

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ClientSampleId :

BHA78DL

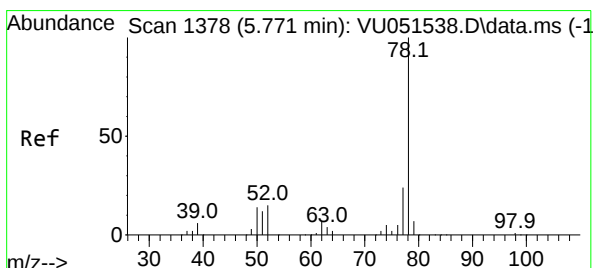
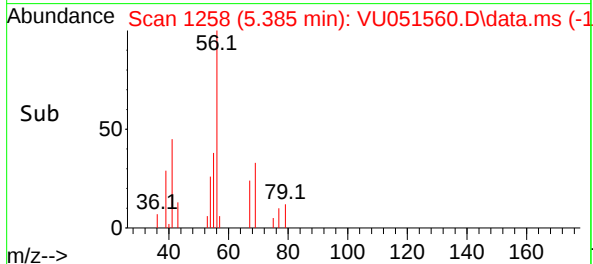
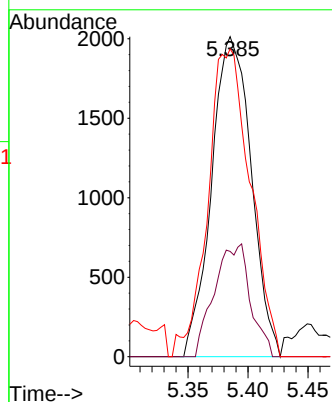
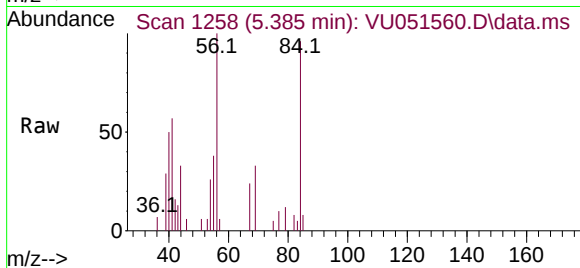
Tgt Ion: 56 Resp: 4626

Ion Ratio Lower Upper

56 100

69 32.0 25.1 37.7

84 102.9 70.9 106.3



#33

Benzene

Concen: 9.382 ug/L

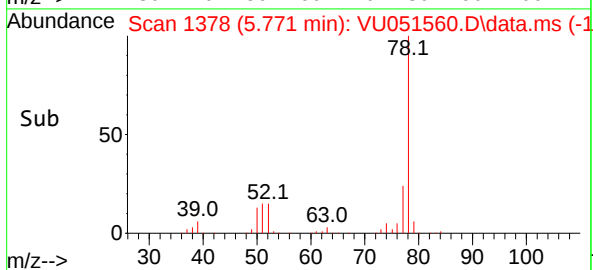
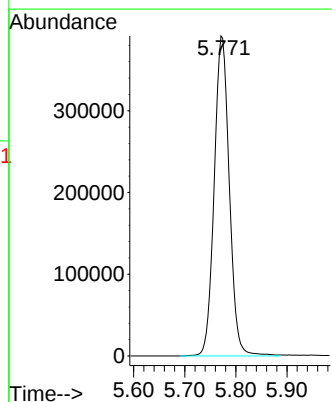
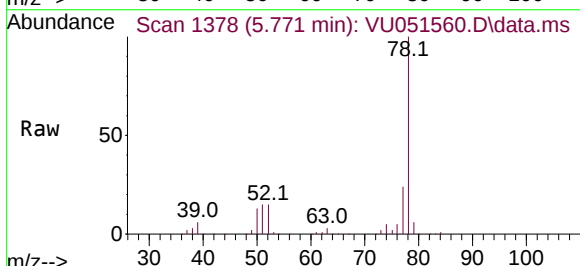
RT: 5.771 min Scan# 1378

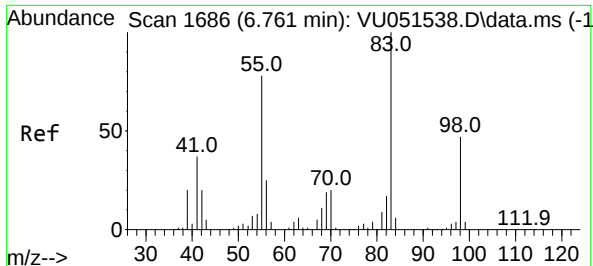
Delta R.T. 0.000 min

Lab File: VU051560.D

Acq: 27 Oct 2022 23:53

Tgt Ion: 78 Resp: 805166





#35

Methylcyclohexane

Concen: 0.132 ug/L

RT: 6.764 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU051560.D

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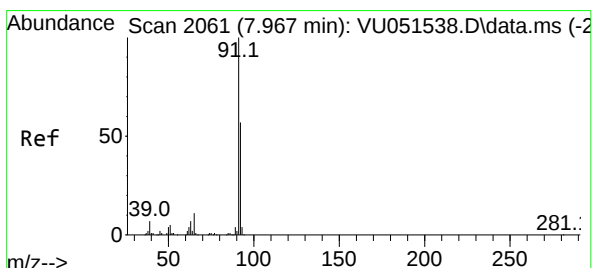
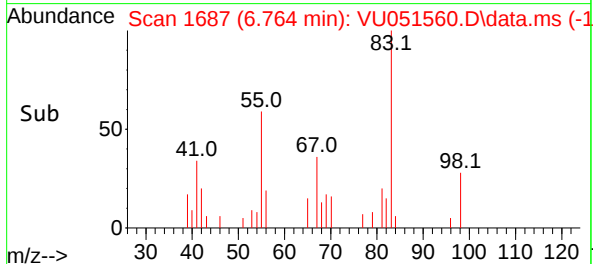
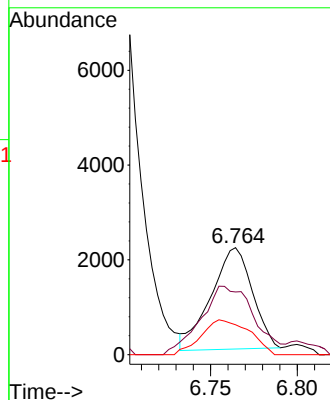
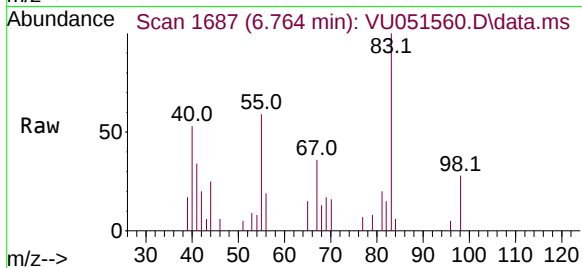
Tgt Ion: 83 Resp: 3565

Ion Ratio Lower Upper

83 100

55 87.1 65.8 98.6

98 39.9 35.9 53.9



#42

Toluene

Concen: 45.474 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. 0.000 min

Lab File: VU051560.D

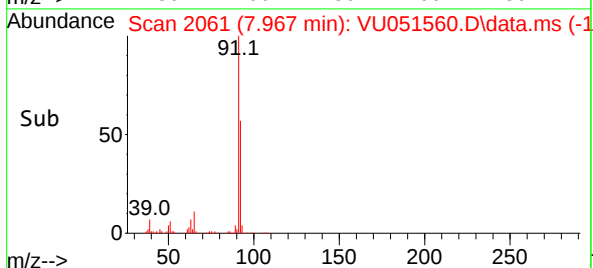
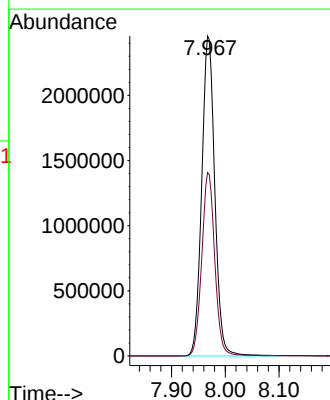
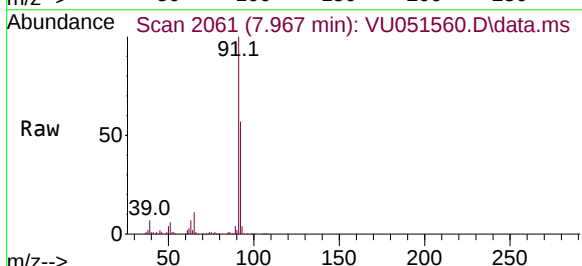
Acq: 27 Oct 2022 23:53

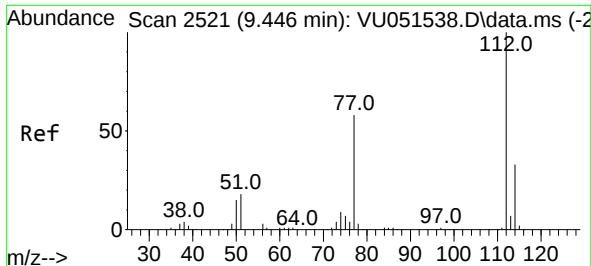
Tgt Ion: 91 Resp: 4142362

Ion Ratio Lower Upper

91 100

92 57.3 39.9 74.1

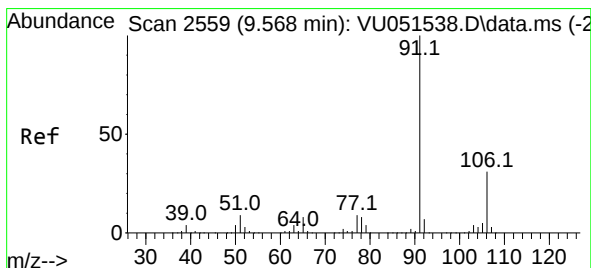
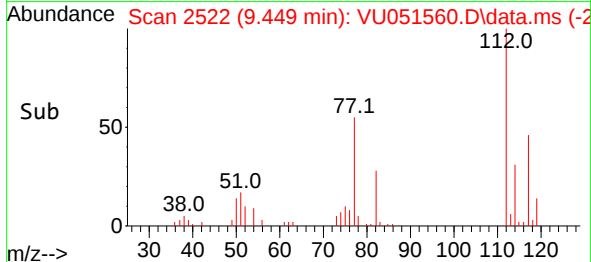
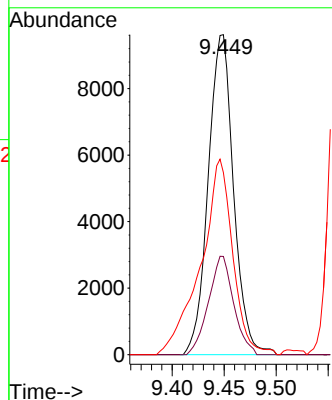
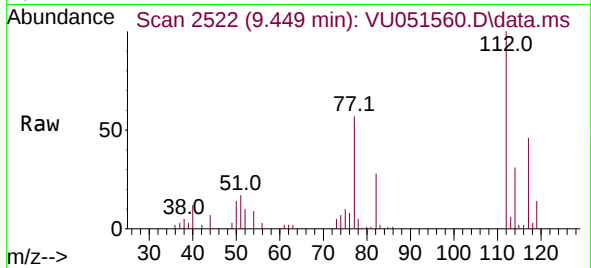




#51
Chlorobenzene
Concen: 0.300 ug/L
RT: 9.449 min Scan# 2521
Delta R.T. 0.003 min
Lab File: VU051560.D
Acq: 27 Oct 2022 23:53

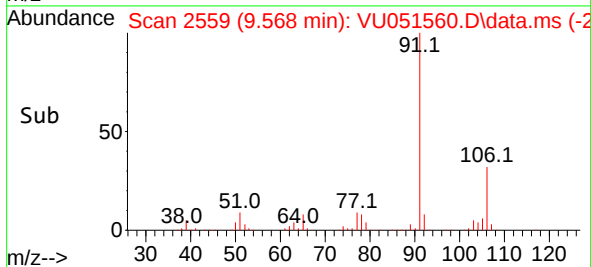
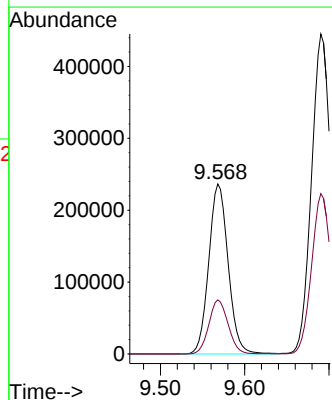
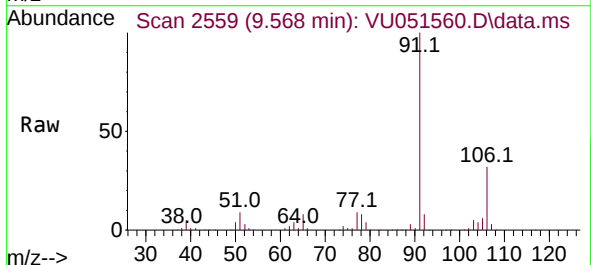
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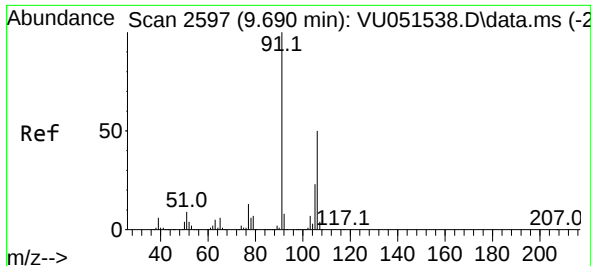
Tgt Ion:112 Resp: 16347
Ion Ratio Lower Upper
112 100
114 30.7 22.3 41.5
77 56.9 48.1 72.1



#52
Ethylbenzene
Concen: 4.623 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. 0.000 min
Lab File: VU051560.D
Acq: 27 Oct 2022 23:53

Tgt Ion: 91 Resp: 378470
Ion Ratio Lower Upper
91 100
106 31.8 20.9 38.7

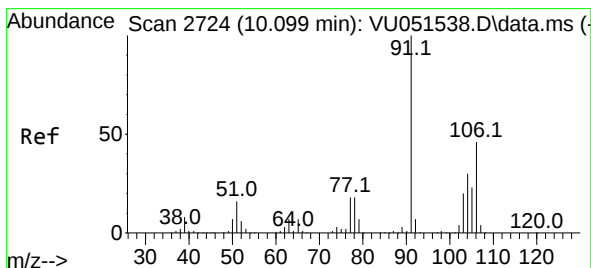
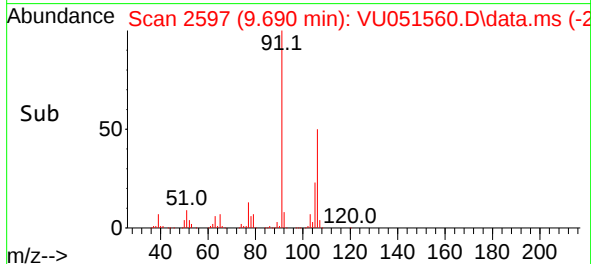
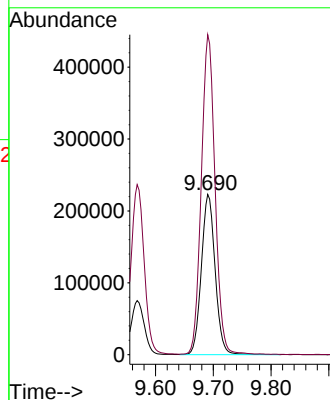
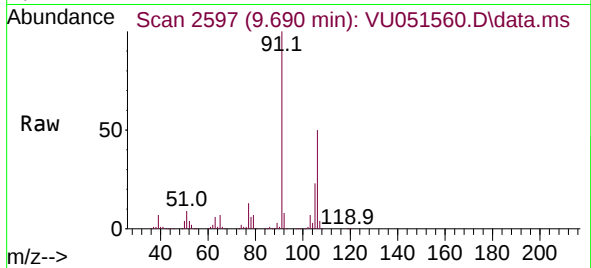




#53
m,p-Xylene
Concen: 11.580 ug/L
RT: 9.690 min Scan# 2597
Delta R.T. 0.000 min
Lab File: VU051560.D
Acq: 27 Oct 2022 23:53

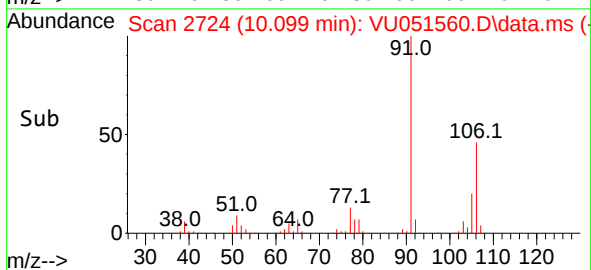
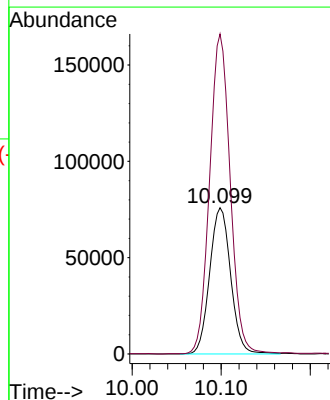
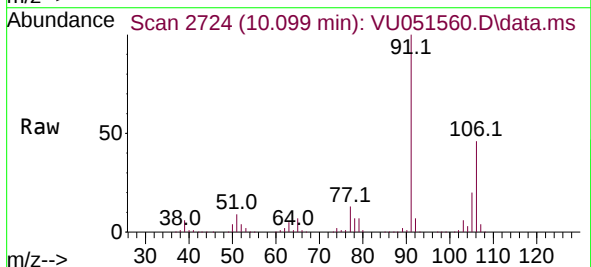
Instrument :
MSVOA_U
ClientSampleId :
BHA78DL

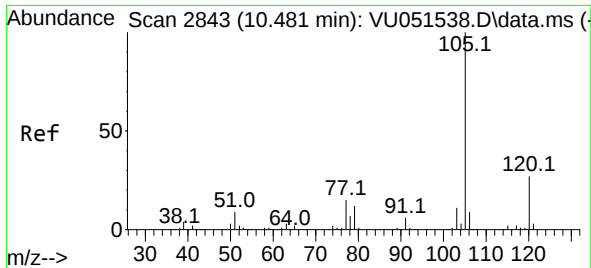
Tgt Ion:106 Resp: 367636
Ion Ratio Lower Upper
106 100
91 199.6 143.9 267.3



#54
o-Xylene
Concen: 4.135 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. 0.000 min
Lab File: VU051560.D
Acq: 27 Oct 2022 23:53

Tgt Ion:106 Resp: 124218
Ion Ratio Lower Upper
106 100
91 218.9 154.4 286.8

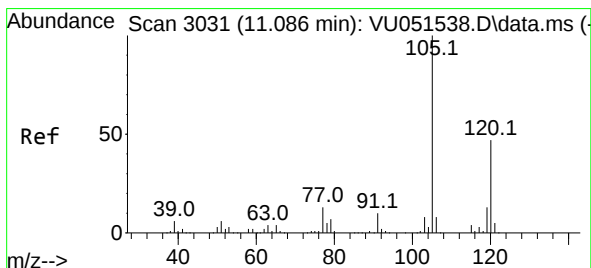
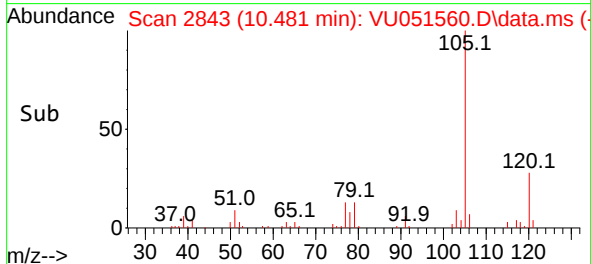
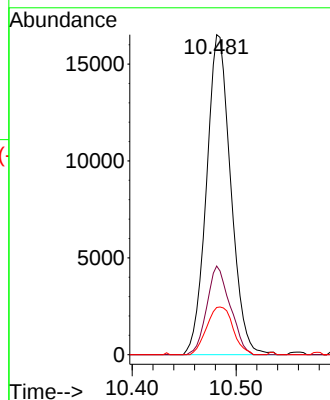
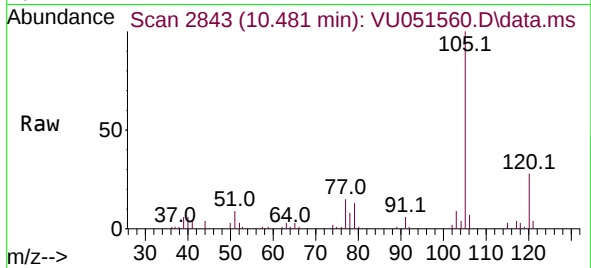




#60
Isopropylbenzene
Concen: 0.330 ug/L
RT: 10.481 min Scan# 2843
Delta R.T. 0.000 min
Lab File: VU051560.D
Acq: 27 Oct 2022 23:53

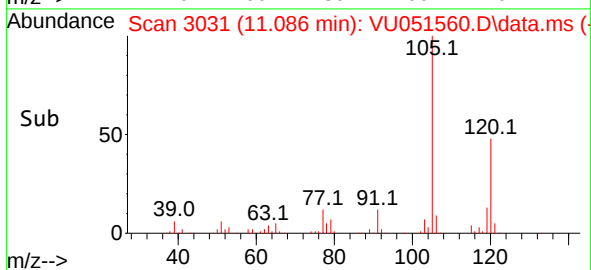
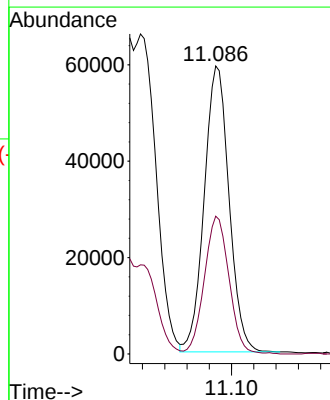
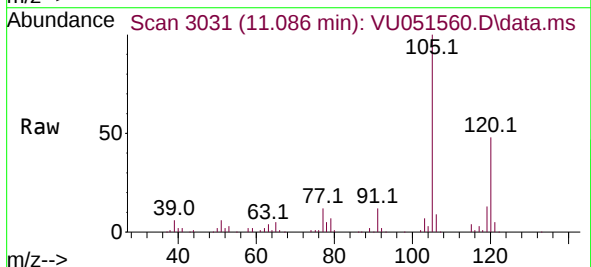
Instrument :
MSVOA_U
ClientSampleId :
BHA78DL

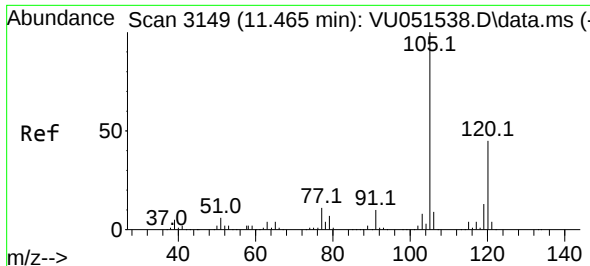
Tgt Ion:105 Resp: 26723
Ion Ratio Lower Upper
105 100
120 26.6 20.6 30.8
77 16.1 13.5 20.3



#62
1,3,5-Trimethylbenzene
Concen: 4.271 ug/L
RT: 11.086 min Scan# 3031
Delta R.T. 0.000 min
Lab File: VU051560.D
Acq: 27 Oct 2022 23:53

Tgt Ion:105 Resp: 91862
Ion Ratio Lower Upper
105 100
120 47.9 37.7 56.5

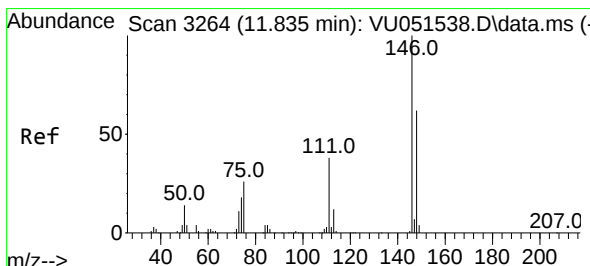
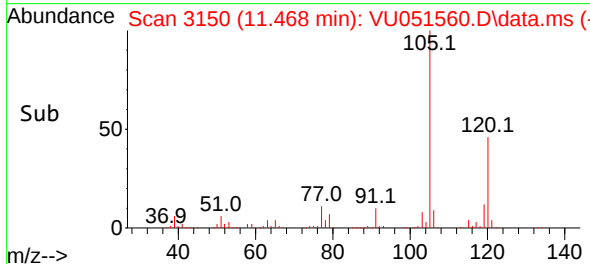
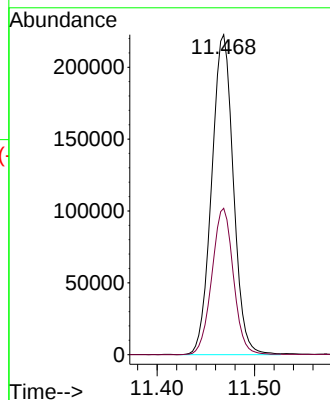
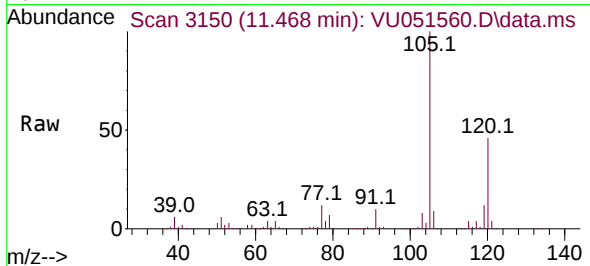




#63
1,2,4-Trimethylbenzene
Concen: 5.659 ug/L
RT: 11.468 min Scan# 3149
Delta R.T. 0.003 min
Lab File: VU051560.D
Acq: 27 Oct 2022 23:53

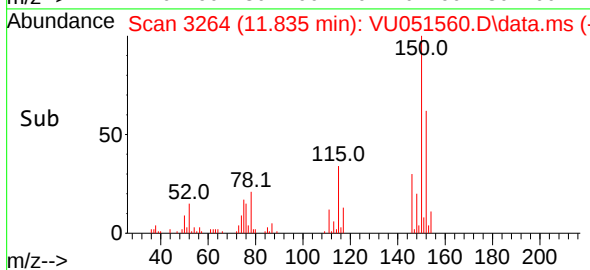
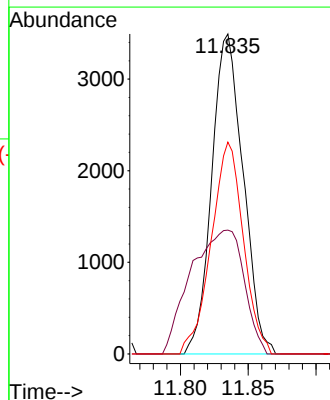
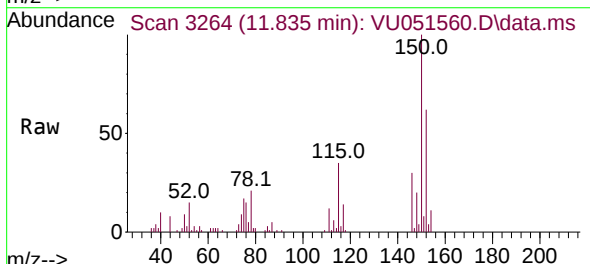
Instrument :
MSVOA_U
ClientSampleId :
BHA78DL

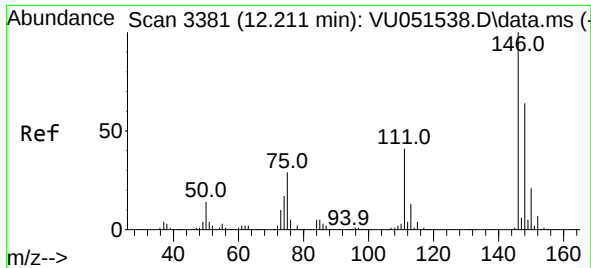
Tgt Ion:105 Resp: 344254
Ion Ratio Lower Upper
105 100
120 45.6 35.6 53.4



#65
1,4-Dichlorobenzene
Concen: 0.142 ug/L
RT: 11.835 min Scan# 3264
Delta R.T. 0.000 min
Lab File: VU051560.D
Acq: 27 Oct 2022 23:53

Tgt Ion:146 Resp: 5622
Ion Ratio Lower Upper
146 100
111 38.7 29.1 54.1
148 66.2 44.2 82.0





#67

1,2-Dichlorobenzene

Concen: 0.439 ug/L

RT: 12.211 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU051560.D

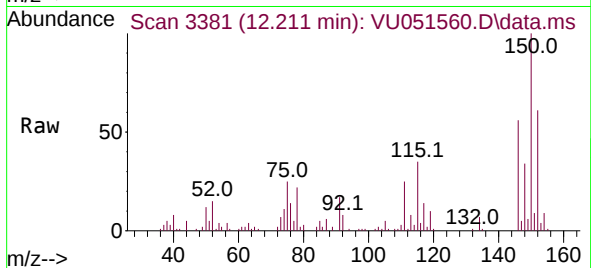
Acq: 27 Oct 2022 23:53

Instrument :

MSVOA_U

ClientSampleId :

BHA78DL



Tgt Ion:146 Resp: 17111

Ion Ratio Lower Upper

146 100

111 45.5 35.5 53.3

148 61.1 50.9 76.3

