

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100922\
 Data File : VU051306.D
 Acq On : 09 Oct 2022 17:41
 Operator : JC/MD
 Sample : N5013-05
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BHA42

Quant Time: Oct 10 01:29:03 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR100722WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Mon Oct 10 01:25:26 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	220499	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	230219	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	101820	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	69917	3.931	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.600%
7) Chloroethane-d5	1.909	69	68578	4.487	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.800%
11) 1,1-Dichloroethene-d2	2.562	65	29695	4.223	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	84.400%
20) 2-Butanone-d5	4.620	46	256845	65.589	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	131.180%#
24) Chloroform-d	5.060	84	160951	4.854	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.000%
26) 1,2-Dichloroethane-d4	5.703	65	89016	5.205	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.200%
32) Benzene-d6	5.726	84	308635	4.873	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.400%
36) 1,2-Dichloropropane-d6	6.690	67	109533	5.092	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.800%
41) Toluene-d8	7.896	98	248596	4.387	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.800%
43) trans-1,3-Dichloroprop...	8.179	79	36508	5.166	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	103.400%
46) 2-Hexanone-d5	8.632	63	153348	64.388	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	128.780%
56) 1,1,2,2-Tetrachloroeth...	10.754	84	92262	5.370	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	107.400%
66) 1,2-Dichlorobenzene-d4	12.192	152	94502	5.340	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.600	62	1989	0.080	ug/L #	1
8) Chloroethane	1.932	64	32239	2.041	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.571	101	1412	0.082	ug/L #	37
17) Methyl tert-butyl Ether	3.366	73	4457	0.121	ug/L	98
19) 1,1-Dichloroethane	3.867	63	47378	1.357	ug/L	100
22) cis-1,2-Dichloroethene	4.668	96	10630	0.567	ug/L	95
29) 1,1,1-Trichloroethane	5.314	97	3676	0.133	ug/L #	90
33) Benzene	5.774	78	83637	1.088	ug/L	100
35) Methylcyclohexane	6.690	83	24374	1.008	ug/L #	17
37) 1,2-Dichloropropane	6.687	63	11049	0.525	ug/L #	88
42) Toluene	7.967	91	131797	1.616	ug/L	100
51) Chlorobenzene	9.446	112	22393	0.459	ug/L	97
52) Ethylbenzene	9.568	91	19705	0.269	ug/L	94
53) m,p-Xylene	9.690	106	20111	0.707	ug/L	99
54) o-Xylene	10.102	106	5373	0.200	ug/L	96
61) 1,2,3-Trichloropropane	11.809	75	15150	1.178	ug/L #	68
62) 1,3,5-Trimethylbenzene	11.468	105	5146	0.301	ug/L	96
63) 1,2,4-Trimethylbenzene	11.468	105	5146	0.106	ug/L	100
65) 1,4-Dichlorobenzene	11.835	146	7475	0.238	ug/L	95

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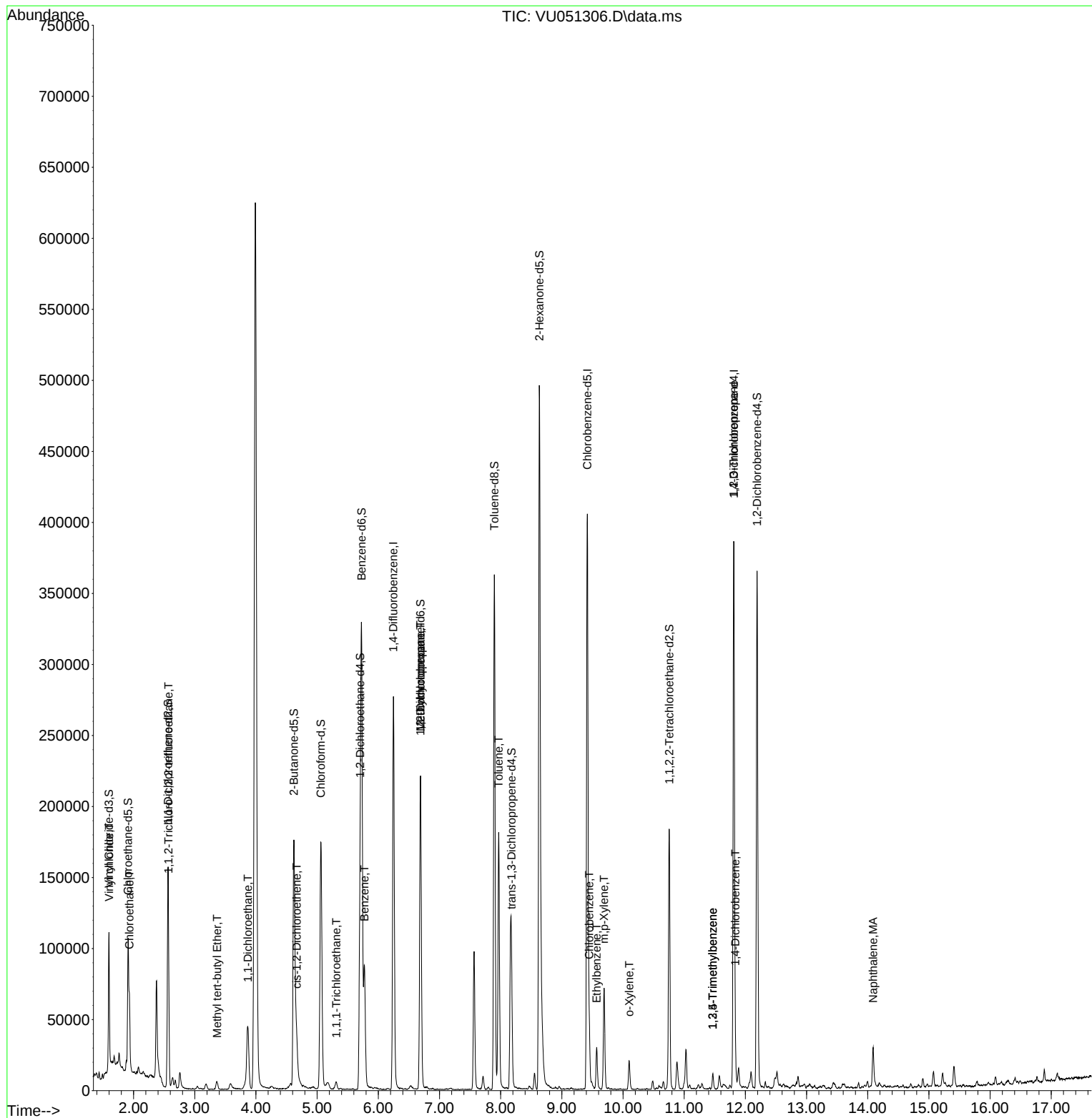
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
71) Naphthalene	14.089	128	23446	0.807 ug/L	97

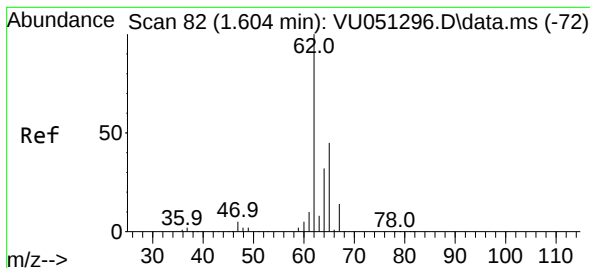
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.080 ug/L

RT: 1.600 min Scan# 81

Delta R.T. -0.003 min

Lab File: VU051306.D

Acq: 09 Oct 2022 17:41

Instrument :

MSVOA_U

ClientSampleId :

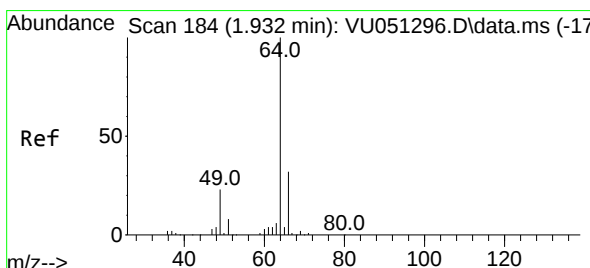
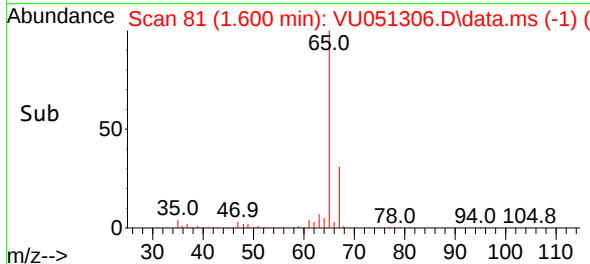
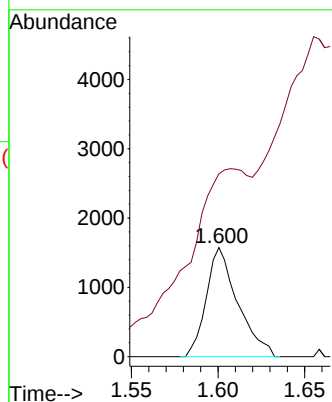
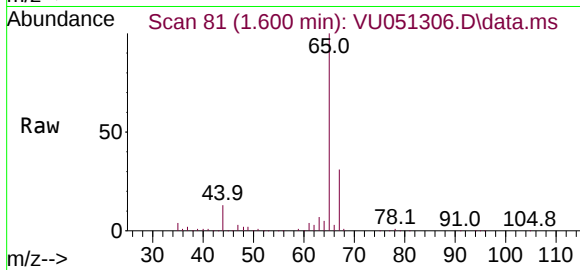
BHA42

Tgt Ion: 62 Resp: 1989

Ion Ratio Lower Upper

62 100

64 167.5 24.0 44.6#



#8

Chloroethane

Concen: 2.041 ug/L

RT: 1.932 min Scan# 184

Delta R.T. -0.000 min

Lab File: VU051306.D

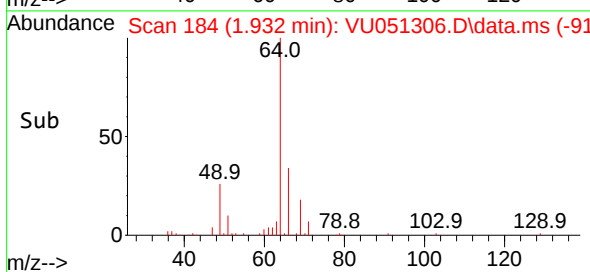
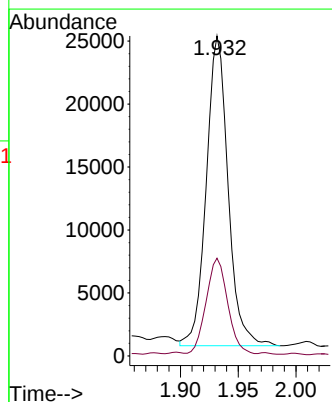
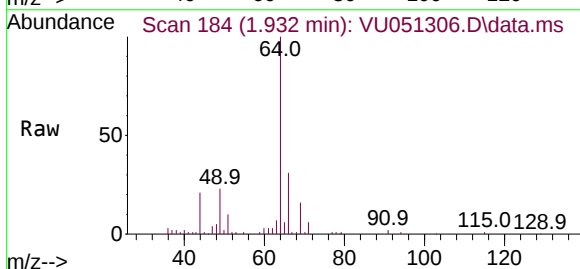
Acq: 09 Oct 2022 17:41

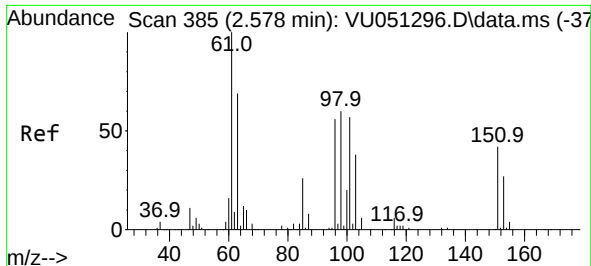
Tgt Ion: 64 Resp: 32239

Ion Ratio Lower Upper

64 100

66 30.6 22.3 41.3

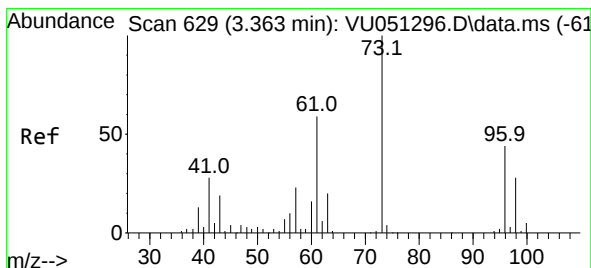
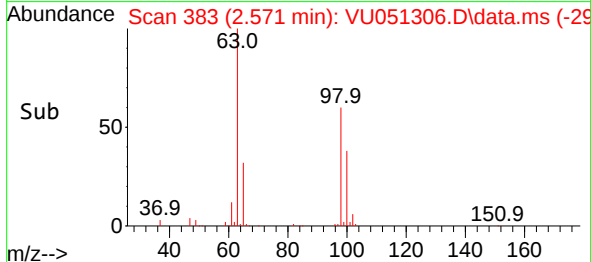
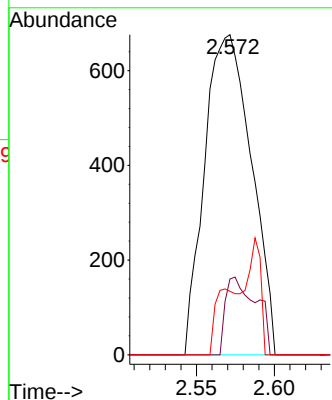
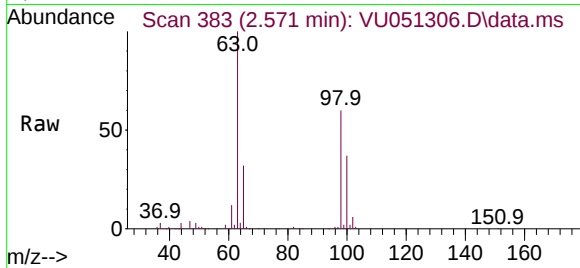




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.082 ug/L
 RT: 2.571 min Scan# 31
 Delta R.T. -0.007 min
 Lab File: VU051306.D
 Acq: 09 Oct 2022 17:41

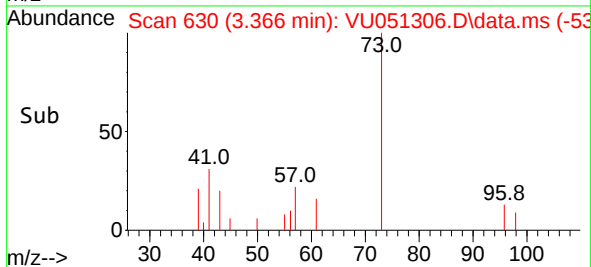
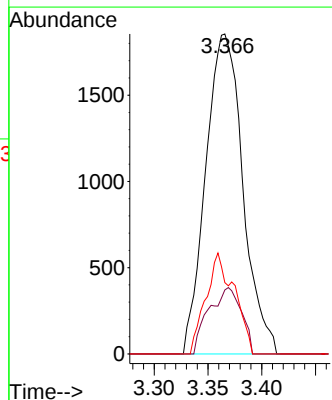
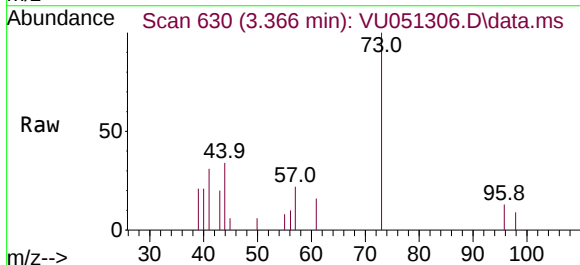
Instrument :
 MSVOA_U
 ClientSampleId :
 BHA42

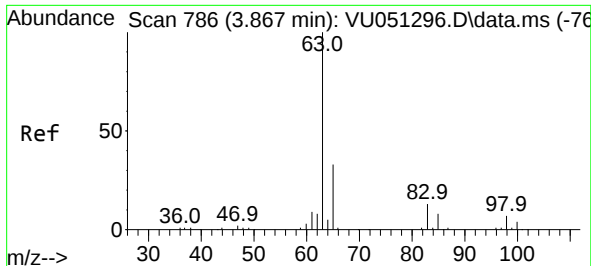
Tgt Ion:101 Resp: 1412
 Ion Ratio Lower Upper
 101 100
 85 15.8 34.6 51.8#
 151 8.8 56.5 84.7#



#17
 Methyl tert-butyl Ether
 Concen: 0.121 ug/L
 RT: 3.366 min Scan# 630
 Delta R.T. 0.003 min
 Lab File: VU051306.D
 Acq: 09 Oct 2022 17:41

Tgt Ion: 73 Resp: 4457
 Ion Ratio Lower Upper
 73 100
 43 18.2 15.4 23.0
 57 24.2 18.9 28.3





#19

1,1-Dichloroethane

Concen: 1.357 ug/L

RT: 3.867 min Scan# 786

Delta R.T. -0.000 min

Lab File: VU051306.D

Acq: 09 Oct 2022 17:41

Instrument :

MSVOA_U

ClientSampleId :

BHA42

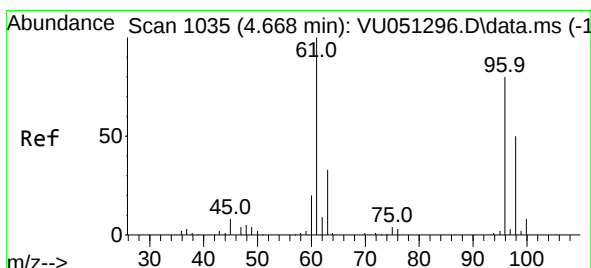
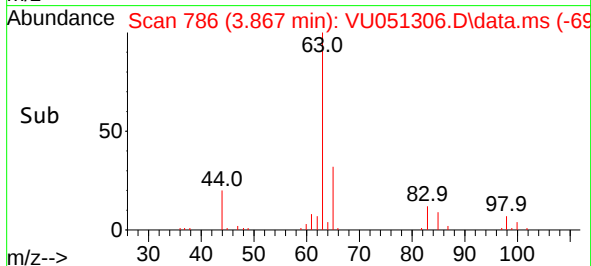
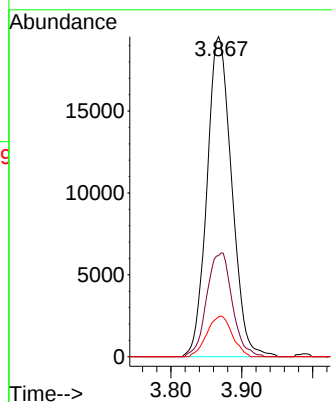
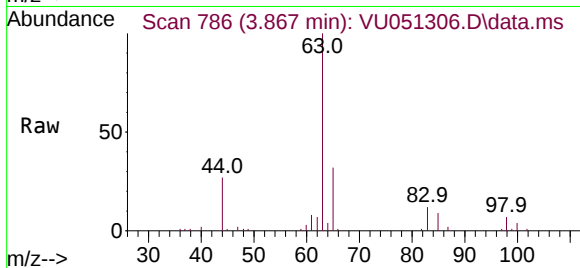
Tgt Ion: 63 Resp: 47378

Ion Ratio Lower Upper

63 100

65 31.6 22.0 41.0

83 12.5 9.0 16.6



#22

cis-1,2-Dichloroethene

Concen: 0.567 ug/L

RT: 4.668 min Scan# 1035

Delta R.T. -0.000 min

Lab File: VU051306.D

Acq: 09 Oct 2022 17:41

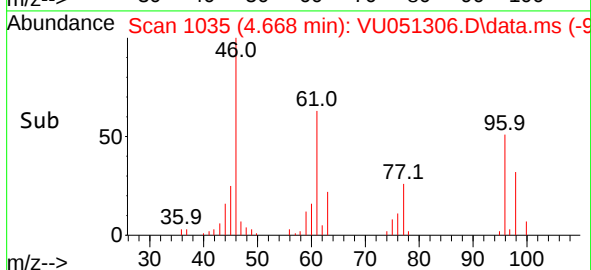
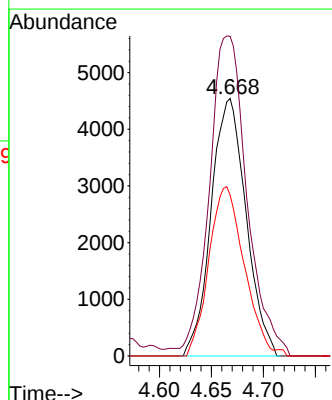
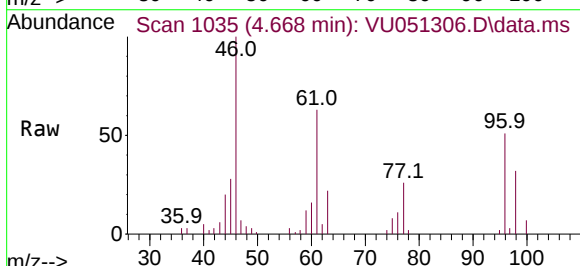
Tgt Ion: 96 Resp: 10630

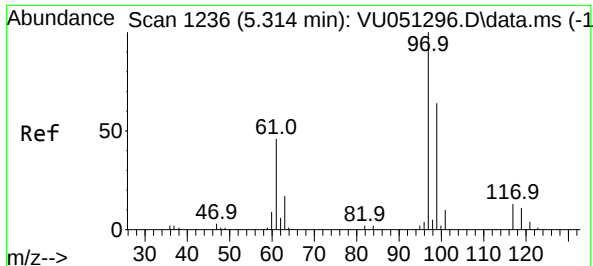
Ion Ratio Lower Upper

96 100

61 124.1 90.6 168.2

98 62.5 47.5 88.3

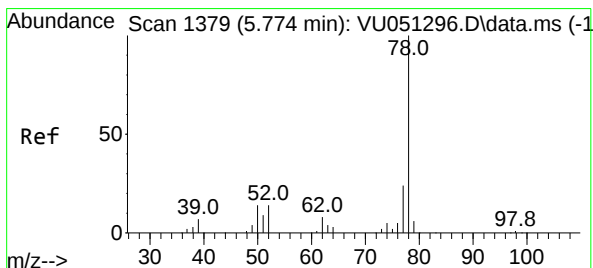
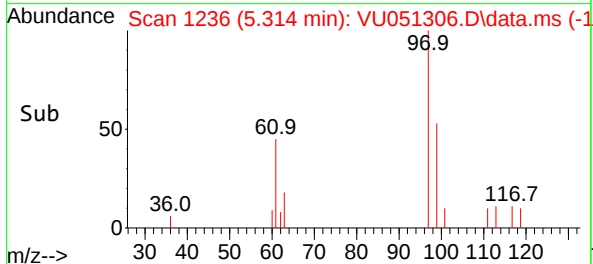
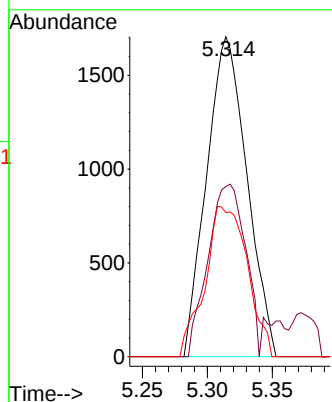
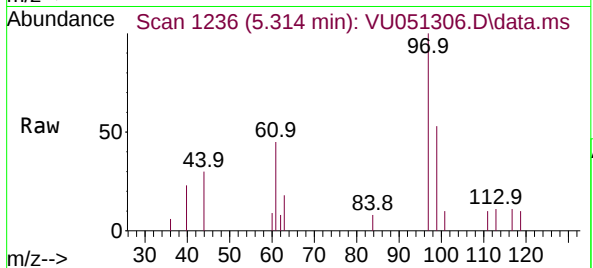




#29
1,1,1-Trichloroethane
Concen: 0.133 ug/L
RT: 5.314 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU051306.D
Acq: 09 Oct 2022 17:41

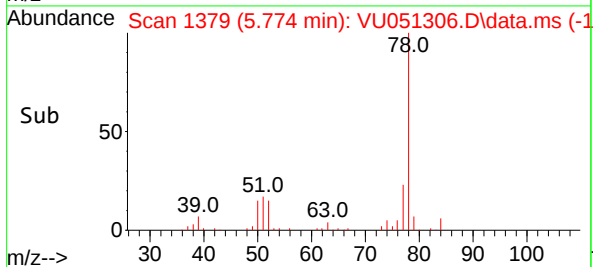
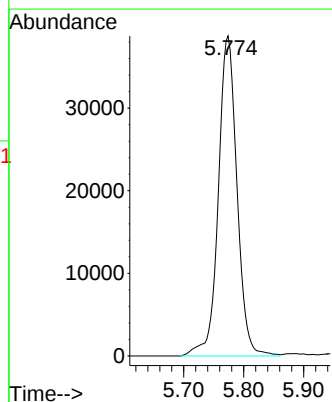
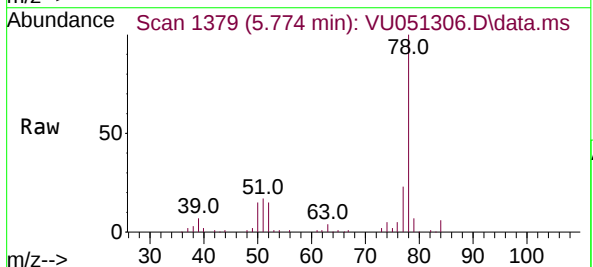
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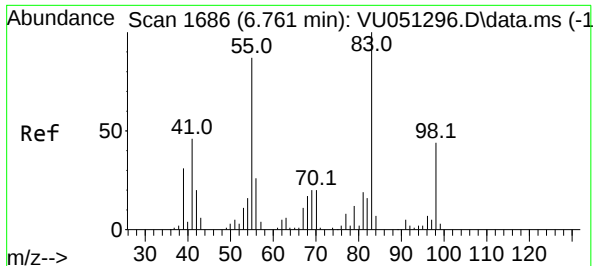
Tgt Ion: 97 Resp: 3676
Ion Ratio Lower Upper
97 100
99 50.2 50.2 75.4#
61 49.4 38.7 58.1



#33
Benzene
Concen: 1.088 ug/L
RT: 5.774 min Scan# 1379
Delta R.T. -0.000 min
Lab File: VU051306.D
Acq: 09 Oct 2022 17:41

Tgt Ion: 78 Resp: 83637

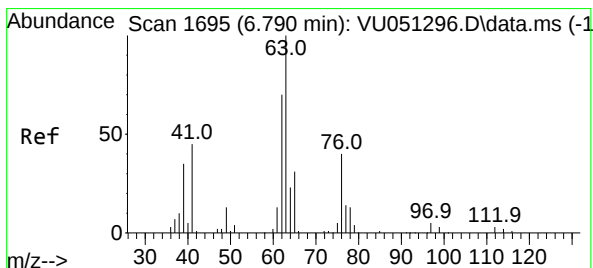
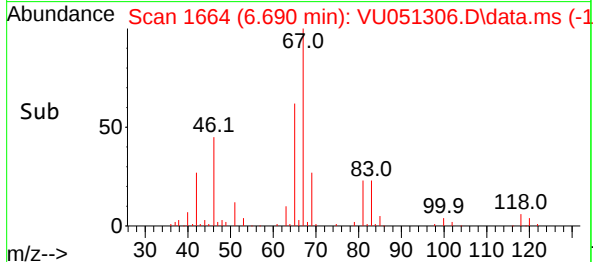
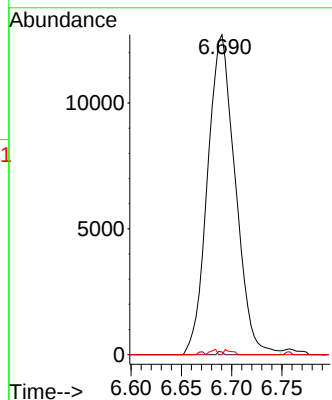
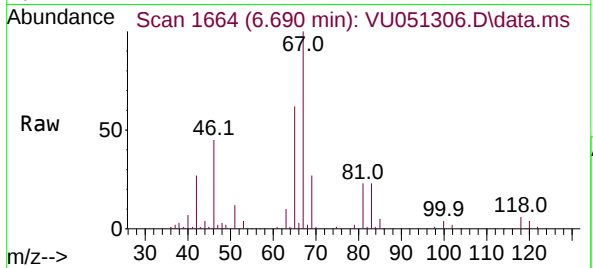




#35
Methylcyclohexane
Concen: 1.008 ug/L
RT: 6.690 min Scan# 1664
Delta R.T. -0.071 min
Lab File: VU051306.D
Acq: 09 Oct 2022 17:41

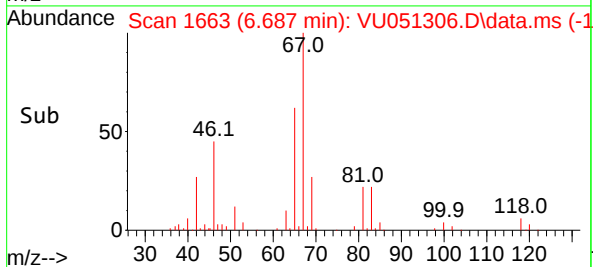
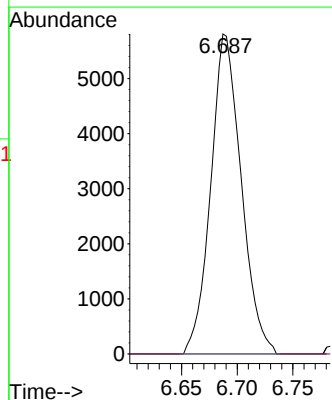
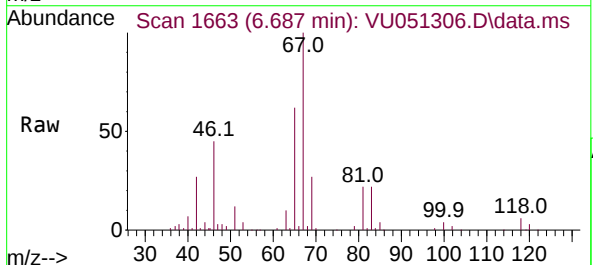
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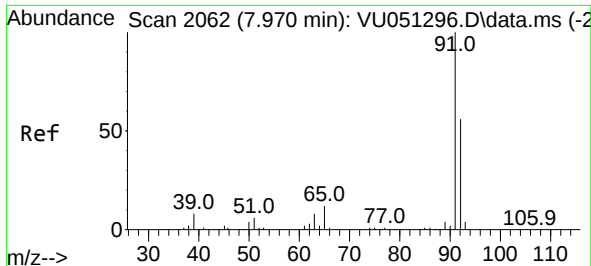
Tgt Ion: 83 Resp: 24374
Ion Ratio Lower Upper
83 100
55 0.2 65.8 98.6#
98 0.5 35.9 53.9#



#37
1,2-Dichloropropane
Concen: 0.525 ug/L
RT: 6.687 min Scan# 1663
Delta R.T. -0.103 min
Lab File: VU051306.D
Acq: 09 Oct 2022 17:41

Tgt Ion: 63 Resp: 11049
Ion Ratio Lower Upper
63 100
112 0.2 3.2 4.8#





#42

Toluene

Concen: 1.616 ug/L

RT: 7.967 min Scan# 2062

Delta R.T. -0.003 min

Lab File: VU051306.D

Acq: 09 Oct 2022 17:41

Instrument :

MSVOA_U

ClientSampleId :

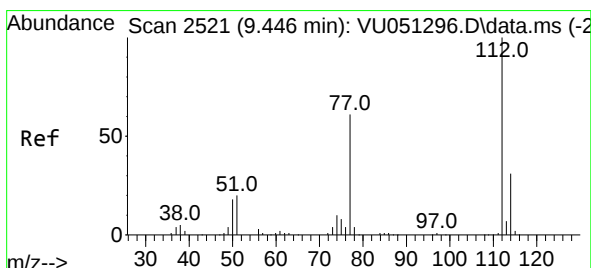
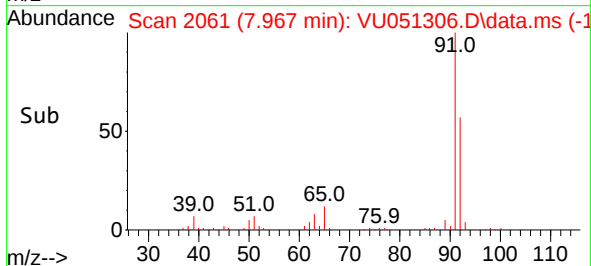
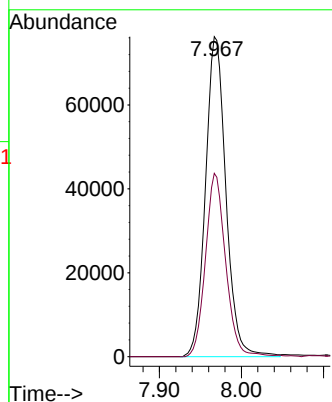
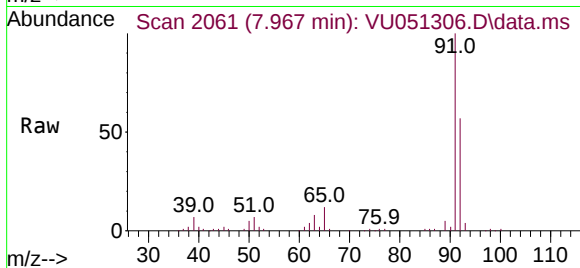
BHA42

Tgt Ion: 91 Resp: 131797

Ion Ratio Lower Upper

91 100

92 57.3 39.9 74.1



#51

Chlorobenzene

Concen: 0.459 ug/L

RT: 9.446 min Scan# 2521

Delta R.T. -0.000 min

Lab File: VU051306.D

Acq: 09 Oct 2022 17:41

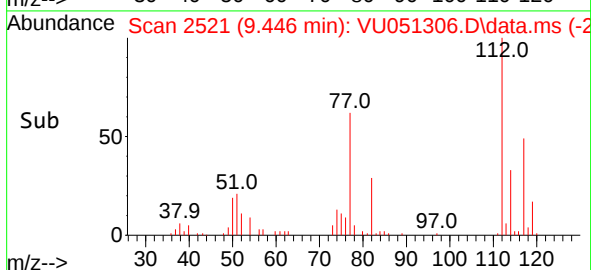
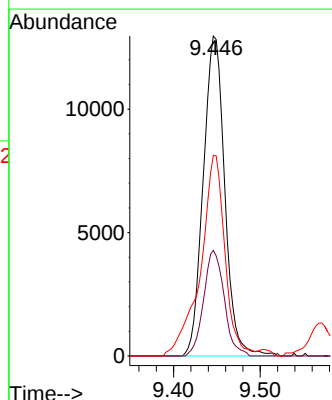
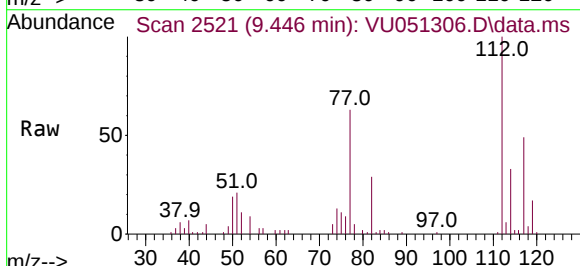
Tgt Ion: 112 Resp: 22393

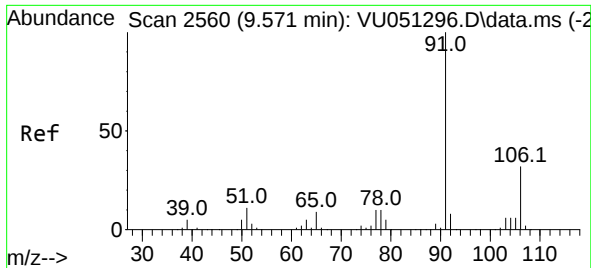
Ion Ratio Lower Upper

112 100

114 33.0 22.3 41.5

77 62.7 48.1 72.1

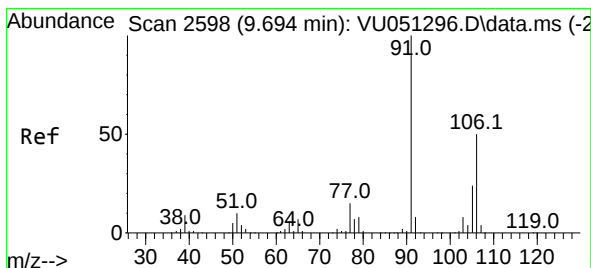
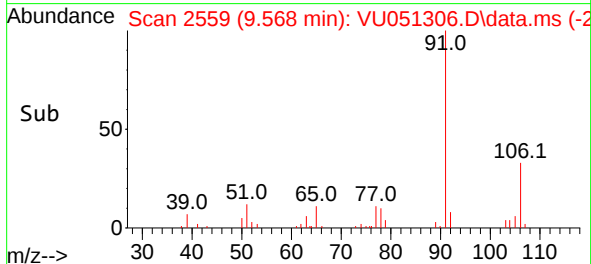
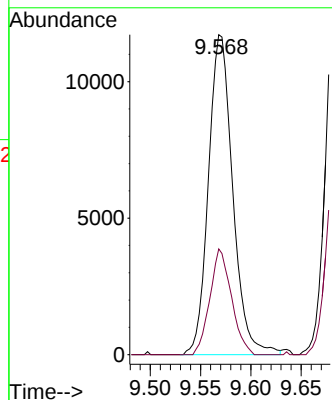
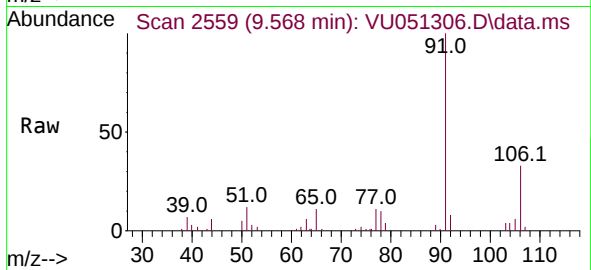




#52
Ethylbenzene
Concen: 0.269 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. -0.003 min
Lab File: VU051306.D
Acq: 09 Oct 2022 17:41

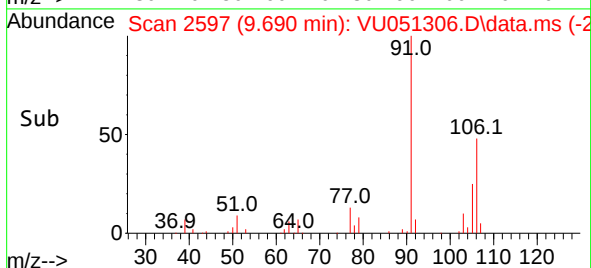
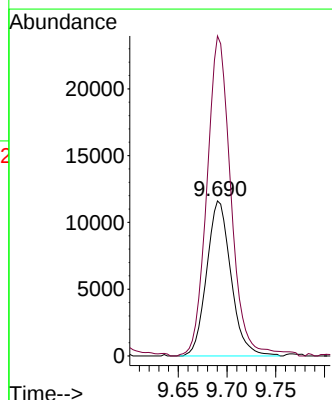
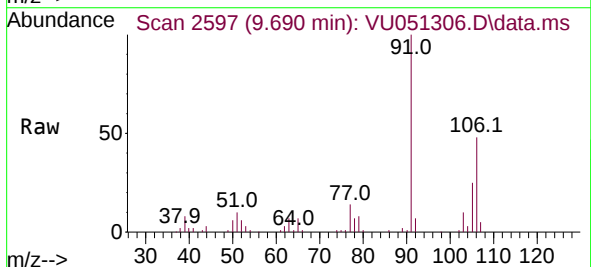
Instrument :
MSVOA_U
ClientSampleId :
BHA42

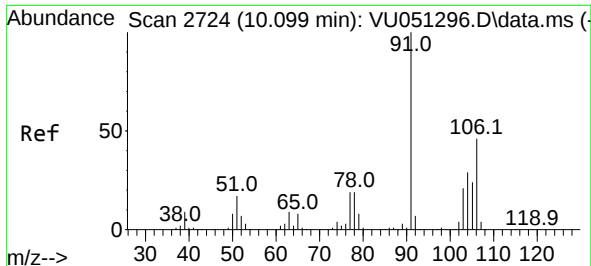
Tgt Ion: 91 Resp: 19705
Ion Ratio Lower Upper
91 100
106 33.0 20.9 38.7



#53
m,p-Xylene
Concen: 0.707 ug/L
RT: 9.690 min Scan# 2597
Delta R.T. -0.003 min
Lab File: VU051306.D
Acq: 09 Oct 2022 17:41

Tgt Ion: 106 Resp: 20111
Ion Ratio Lower Upper
106 100
91 206.4 143.9 267.3

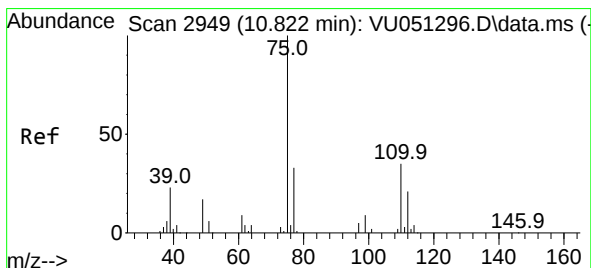
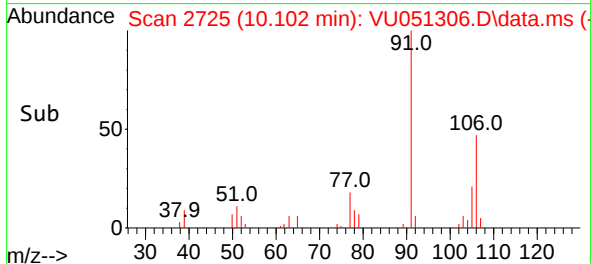
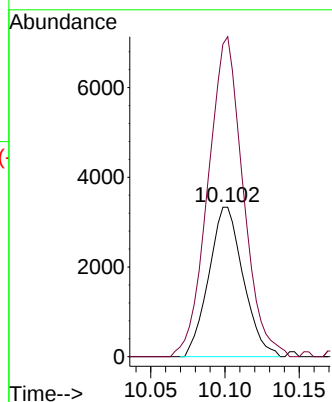
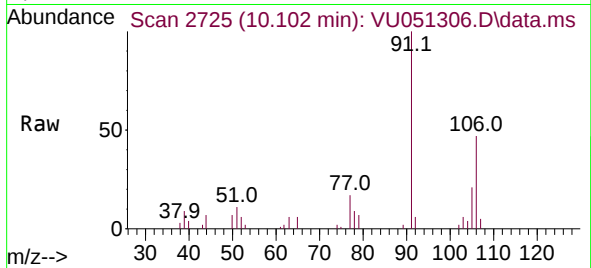




#54
o-Xylene
Concen: 0.200 ug/L
RT: 10.102 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU051306.D
Acq: 09 Oct 2022 17:41

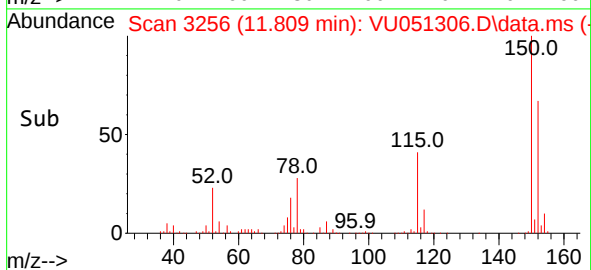
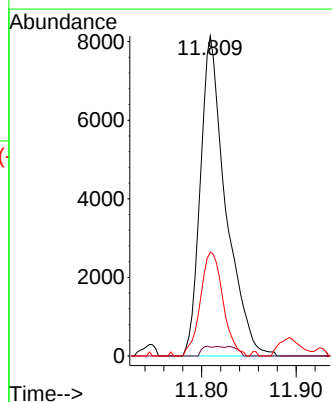
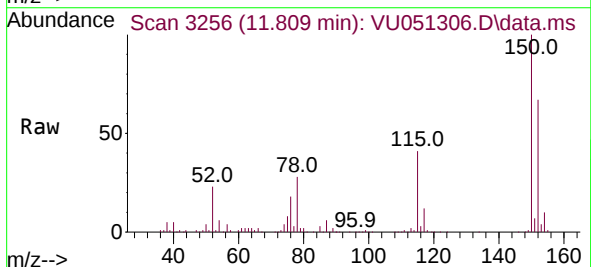
Instrument :
MSVOA_U
ClientSampleId :
BHA42

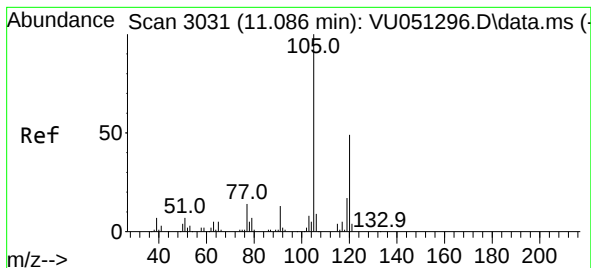
Tgt Ion:106 Resp: 5373
Ion Ratio Lower Upper
106 100
91 214.2 154.4 286.8



#61
1,2,3-Trichloropropane
Concen: 1.178 ug/L
RT: 11.809 min Scan# 3256
Delta R.T. 0.987 min
Lab File: VU051306.D
Acq: 09 Oct 2022 17:41

Tgt Ion: 75 Resp: 15150
Ion Ratio Lower Upper
75 100
110 1.4 27.0 40.6#
77 28.9 26.4 39.6





#62

1,3,5-Trimethylbenzene

Concen: 0.301 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. 0.382 min

Lab File: VU051306.D

Acq: 09 Oct 2022 17:41

Instrument :

MSVOA_U

ClientSampleId :

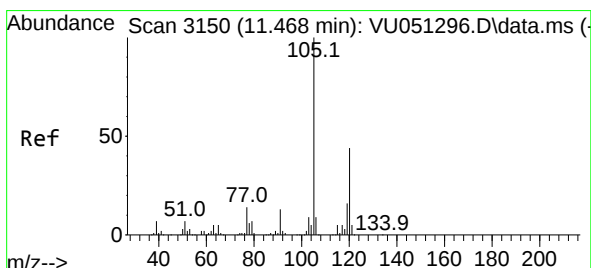
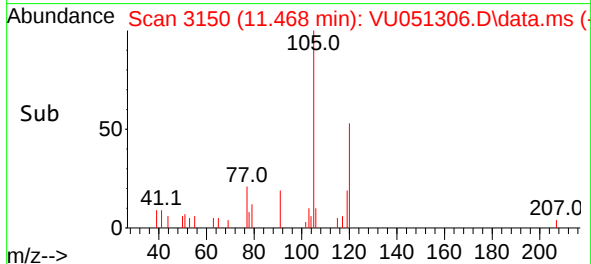
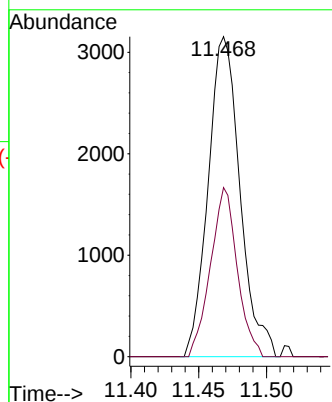
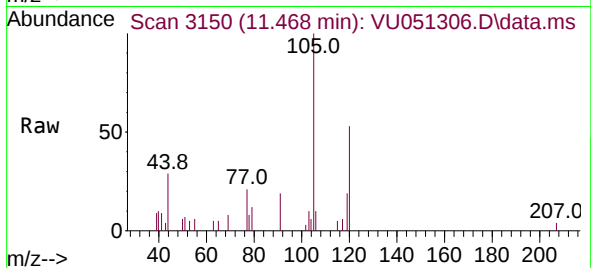
BHA42

Tgt Ion:105 Resp: 5146

Ion Ratio Lower Upper

105 100

120 44.4 37.7 56.5



#63

1,2,4-Trimethylbenzene

Concen: 0.106 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. -0.000 min

Lab File: VU051306.D

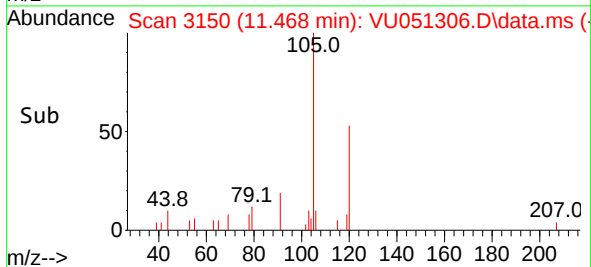
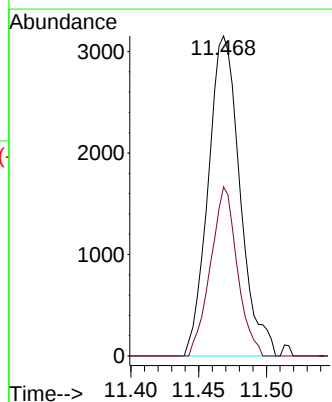
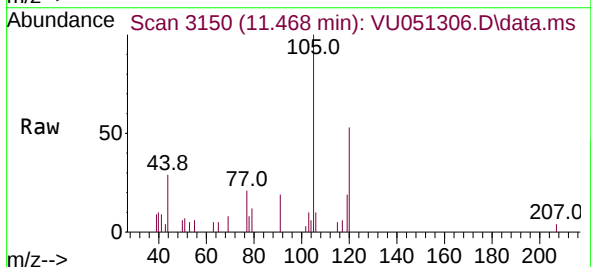
Acq: 09 Oct 2022 17:41

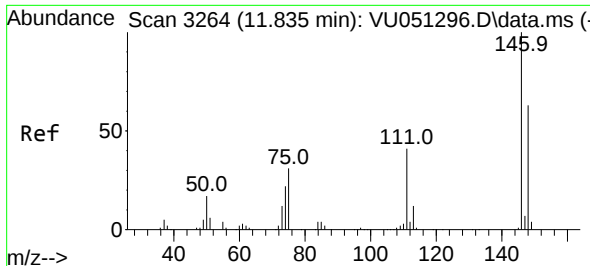
Tgt Ion:105 Resp: 5146

Ion Ratio Lower Upper

105 100

120 44.4 35.6 53.4

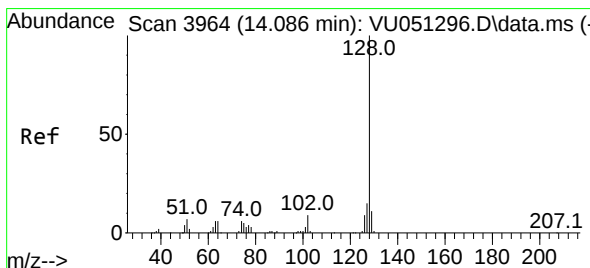
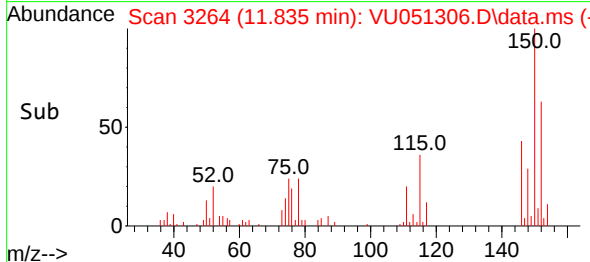
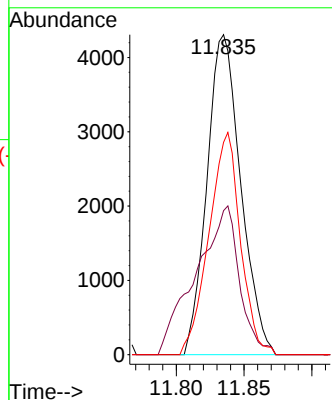
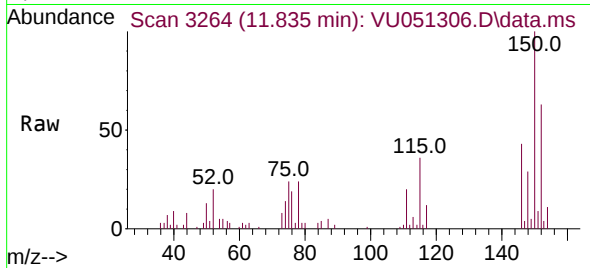




#65
1,4-Dichlorobenzene
Concen: 0.238 ug/L
RT: 11.835 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU051306.D
Acq: 09 Oct 2022 17:41

Instrument :
MSVOA_U
ClientSampleId :
BHA42

Tgt Ion:146 Resp: 7475
Ion Ratio Lower Upper
146 100
111 45.0 29.1 54.1
148 66.4 44.2 82.0



#71
Naphthalene
Concen: 0.807 ug/L
RT: 14.089 min Scan# 3965
Delta R.T. 0.003 min
Lab File: VU051306.D
Acq: 09 Oct 2022 17:41

Tgt Ion:128 Resp: 23446
Ion Ratio Lower Upper
128 100
129 12.2 8.5 12.7
127 14.6 11.1 16.7

