

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071824\
 Data File : VU060023.D
 Acq On : 18 Jul 2024 17:35
 Operator : MD/SY
 Sample : P3217-20DL 20X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 19 01:35:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR071824WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Jul 19 01:30:22 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	139055	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	145733	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	76726	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	44437	4.593	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.800%
7) Chloroethane-d5	1.907	69	43776	4.870	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.400%
11) 1,1-Dichloroethene-d2	2.554	65	17527	4.640	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.800%
20) 2-Butanone-d5	4.631	46	124320	54.962	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.920%
24) Chloroform-d	5.052	84	94269	4.636	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.800%
26) 1,2-Dichloroethane-d4	5.695	65	47340	5.000	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.000%
32) Benzene-d6	5.718	84	186223	4.769	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.400%
36) 1,2-Dichloropropane-d6	6.682	67	60942	4.898	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.000%
41) Toluene-d8	7.891	98	153033	4.338	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.800%
43) trans-1,3-Dichloroprop...	8.177	79	20037	4.731	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.600%
46) 2-Hexanone-d5	8.634	63	104891	55.811	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	111.620%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	57505	5.193	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.800%
66) 1,2-Dichlorobenzene-d4	12.190	152	70897	5.119	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.400%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.599	62	36575	2.569	ug/L	99
12) 1,1-Dichloroethene	2.567	96	4544	0.428	ug/L #	1
16) Methylene chloride	3.036	84	8834	0.679	ug/L	94
17) Methyl tert-butyl Ether	3.358	73	2370	0.098	ug/L #	85
22) cis-1,2-Dichloroethene	4.653	96	69956	5.657	ug/L	97
33) Benzene	5.769	78	6101	0.127	ug/L	100
37) 1,2-Dichloropropane	6.682	63	6298	0.484	ug/L #	88
42) Toluene	7.965	91	21507	0.420	ug/L	97
47) Tetrachloroethene	8.547	164	5958	0.564	ug/L	96
49) Dibromochloromethane	8.550	129	5380	0.489	ug/L #	10
51) Chlorobenzene	9.441	112	15997	0.478	ug/L	97
52) Ethylbenzene	9.566	91	17856	0.349	ug/L	94
53) m,p-Xylene	9.689	106	6005	0.304	ug/L	92
54) o-Xylene	10.097	106	7802	0.413	ug/L	91
60) Isopropylbenzene	10.479	105	5979	0.119	ug/L	99
61) 1,2,3-Trichloropropane	11.807	75	9686	1.197	ug/L #	48
62) 1,3,5-Trimethylbenzene	11.087	105	12250	0.319	ug/L	96
63) 1,2,4-Trimethylbenzene	11.467	105	17300	0.467	ug/L	100
67) 1,2-Dichlorobenzene	12.206	146	10281	0.398	ug/L	98

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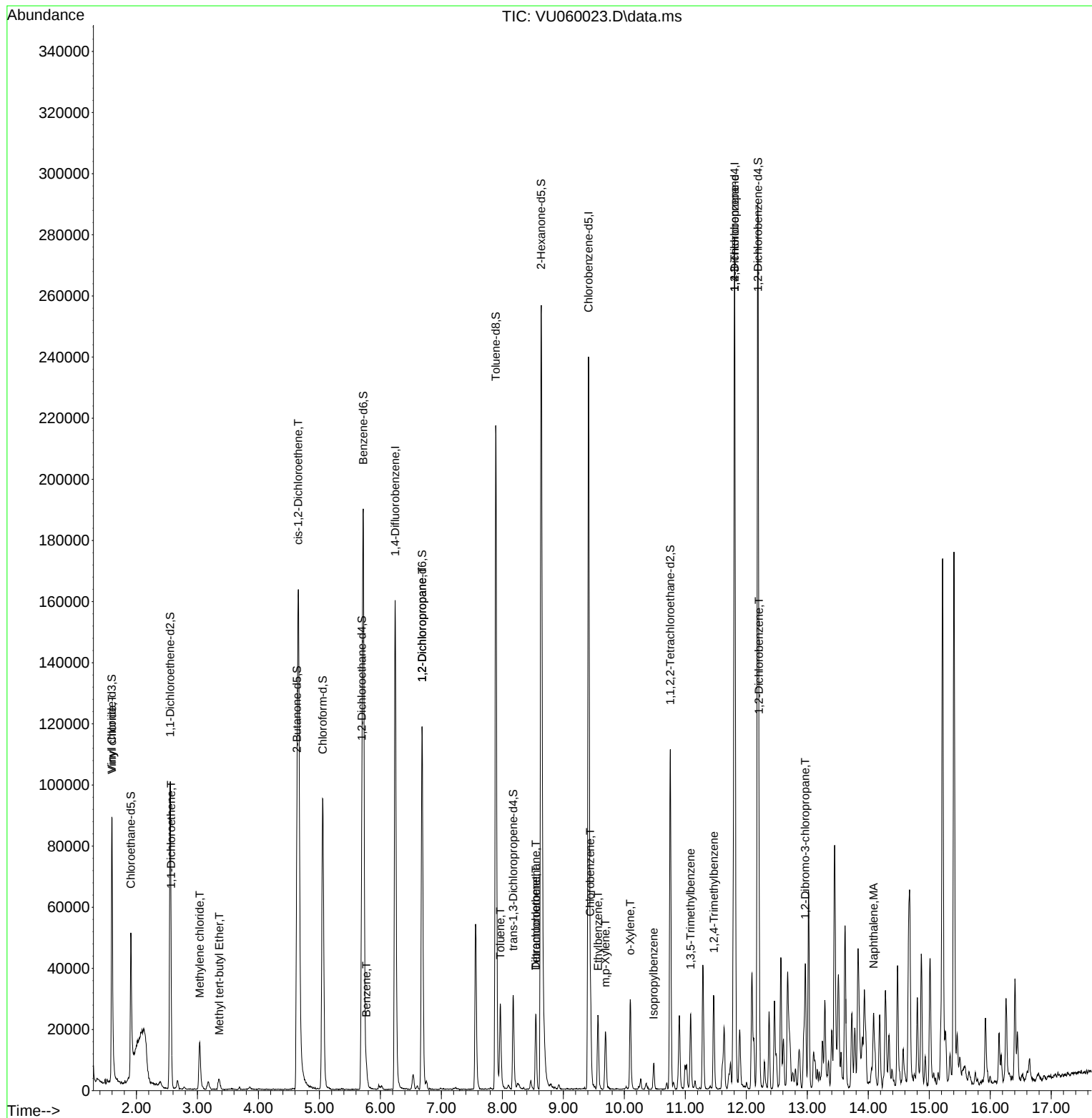
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2-Dibromo-3-chloropr...	12.965	75	159	0.101	ug/L #	1
71) Naphthalene	14.087	128	22057	1.004	ug/L #	94

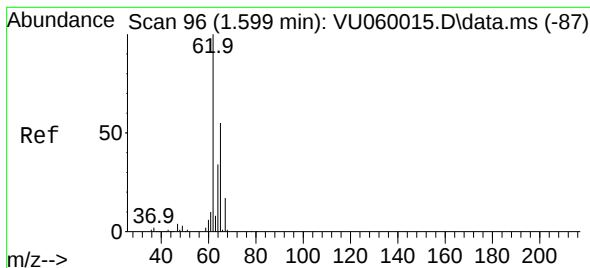
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 2.569 ug/L

RT: 1.599 min Scan# 90

Delta R.T. 0.000 min

Lab File: VU060023.D

Acq: 18 Jul 2024 17:35

Instrument :

MSVOA_U

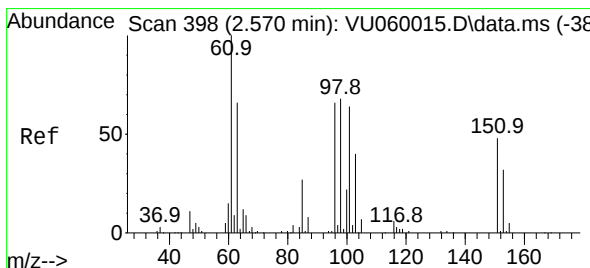
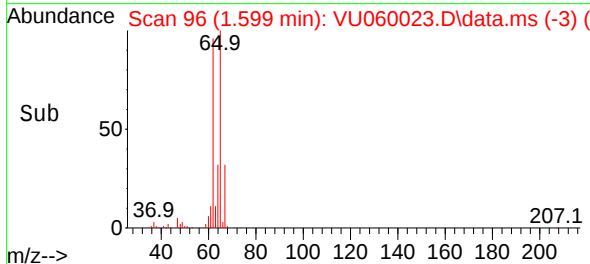
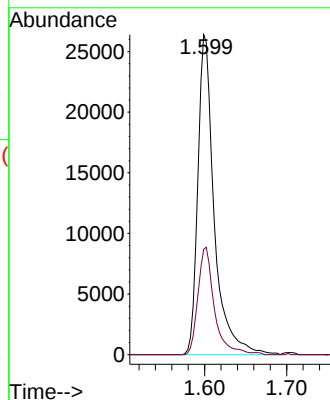
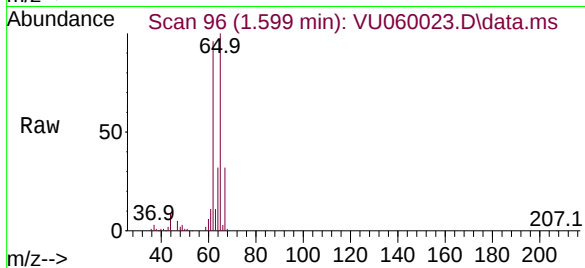
ClientSampleId :

Tgt Ion: 62 Resp: 36575

Ion Ratio Lower Upper

62 100

64 32.9 22.8 42.4



#12

1,1-Dichloroethene

Concen: 0.428 ug/L

RT: 2.567 min Scan# 397

Delta R.T. -0.003 min

Lab File: VU060023.D

Acq: 18 Jul 2024 17:35

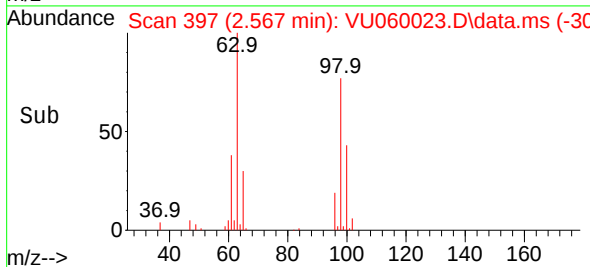
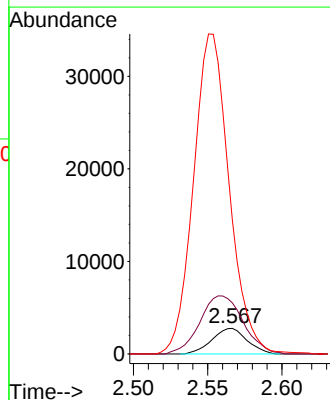
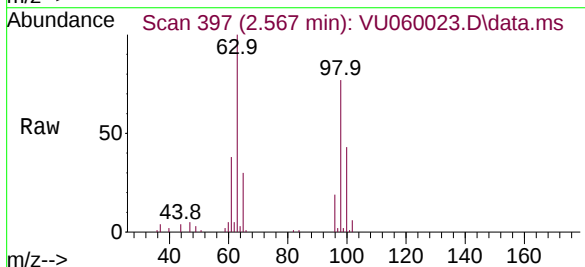
Tgt Ion: 96 Resp: 4544

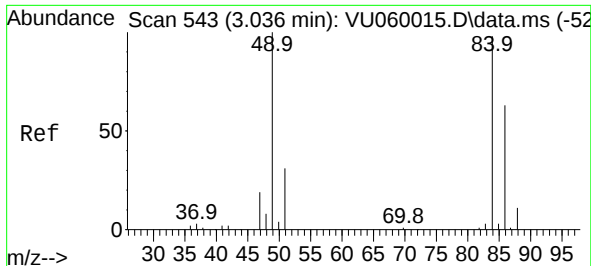
Ion Ratio Lower Upper

96 100

61 198.8 107.0 198.6#

63 522.2 76.4 142.0#





#16

Methylene chloride

Concen: 0.679 ug/L

RT: 3.036 min Scan# 543

Delta R.T. 0.000 min

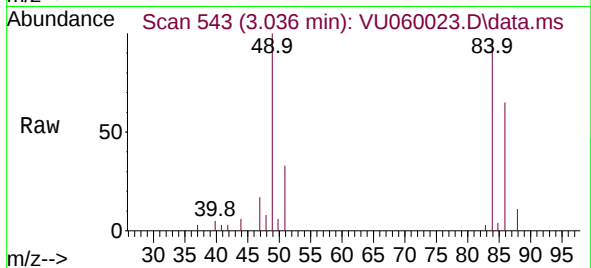
Lab File: VU060023.D

Acq: 18 Jul 2024 17:35

Instrument :

MSVOA_U

ClientSampleId :



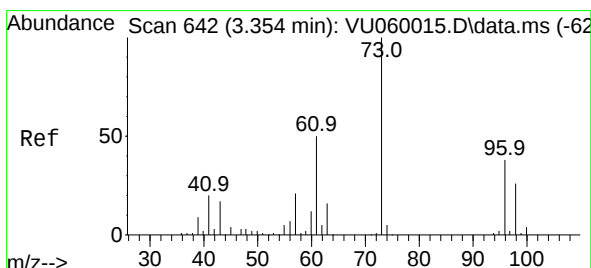
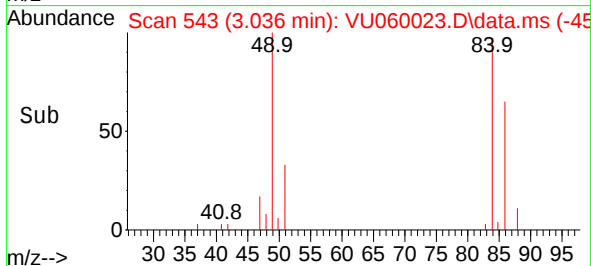
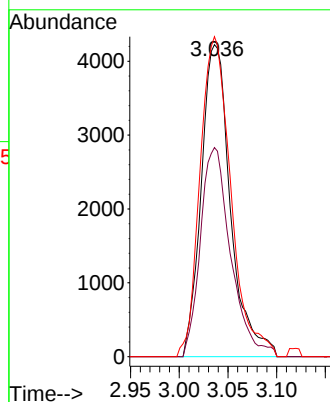
Tgt Ion: 84 Resp: 8834

Ion Ratio Lower Upper

84 100

86 67.0 44.4 82.5

49 109.0 72.0 133.6



#17

Methyl tert-butyl Ether

Concen: 0.098 ug/L

RT: 3.358 min Scan# 643

Delta R.T. 0.003 min

Lab File: VU060023.D

Acq: 18 Jul 2024 17:35

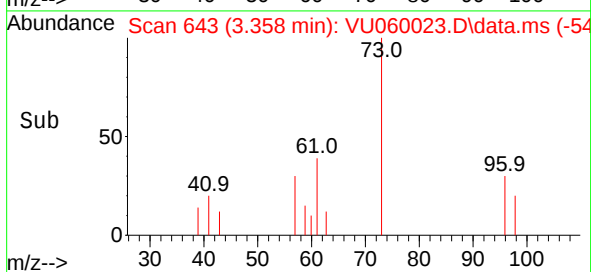
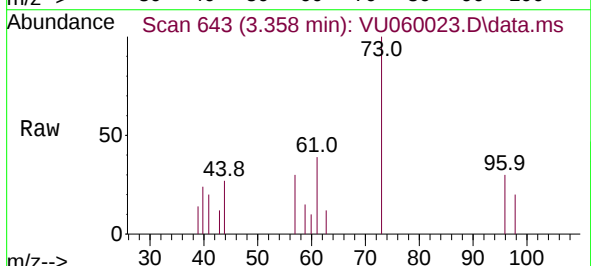
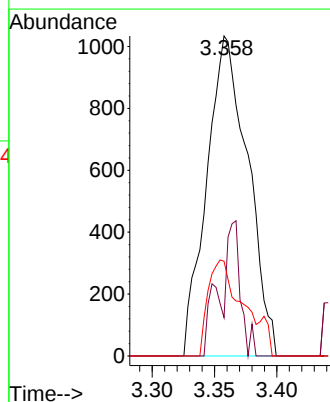
Tgt Ion: 73 Resp: 2370

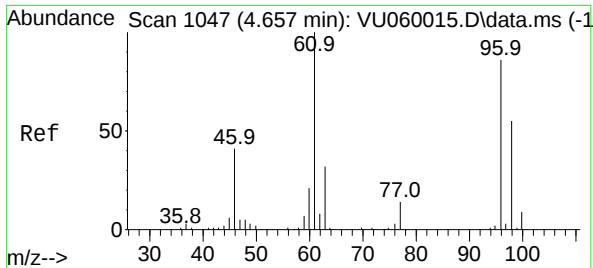
Ion Ratio Lower Upper

73 100

43 7.5 13.1 19.7#

57 26.1 17.0 25.4#

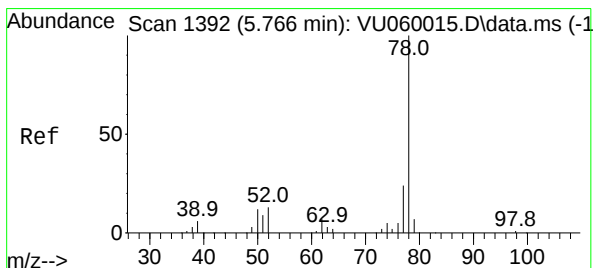
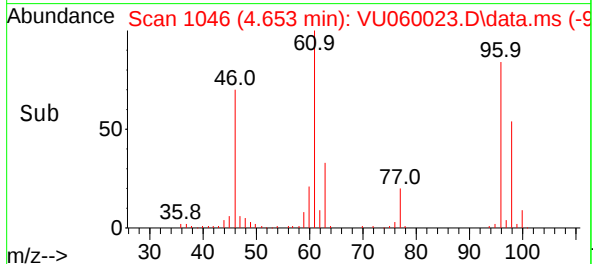
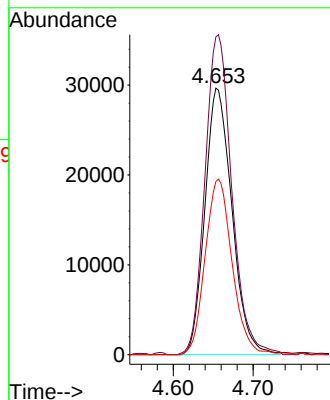
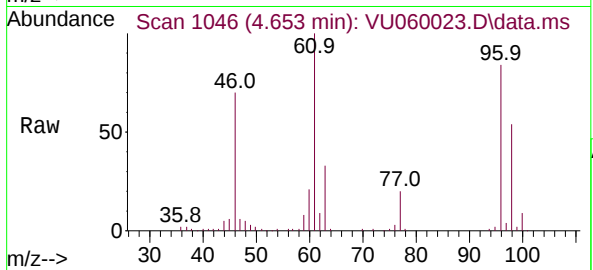




#22
cis-1,2-Dichloroethene
Concen: 5.657 ug/L
RT: 4.653 min Scan# 1046
Delta R.T. -0.003 min
Lab File: VU060023.D
Acq: 18 Jul 2024 17:35

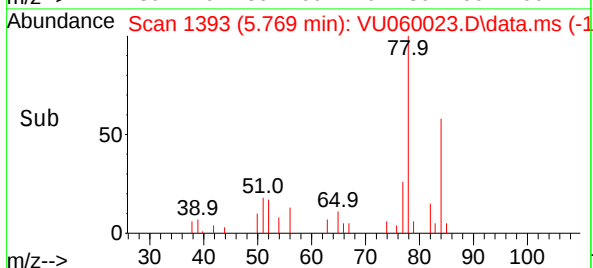
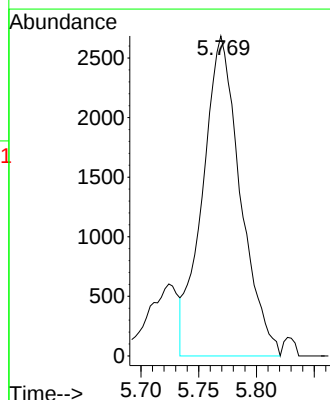
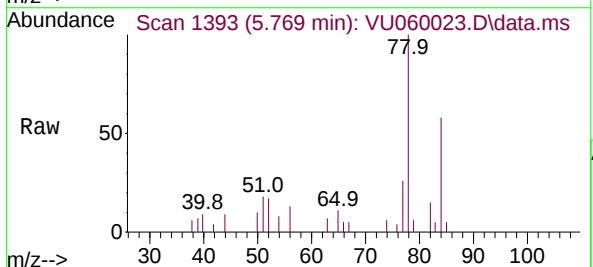
Instrument :
MSVOA_U
ClientSampleId :

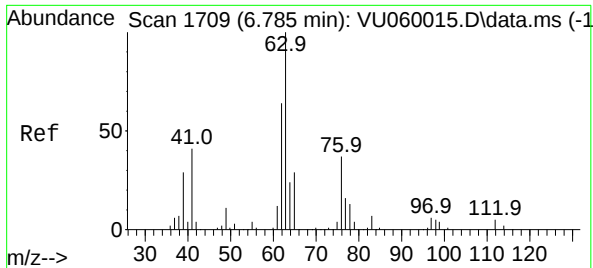
Tgt Ion: 96 Resp: 69956
Ion Ratio Lower Upper
96 100
61 119.2 80.2 148.9
98 65.0 44.7 83.1



#33
Benzene
Concen: 0.127 ug/L
RT: 5.769 min Scan# 1393
Delta R.T. 0.003 min
Lab File: VU060023.D
Acq: 18 Jul 2024 17:35

Tgt Ion: 78 Resp: 6101

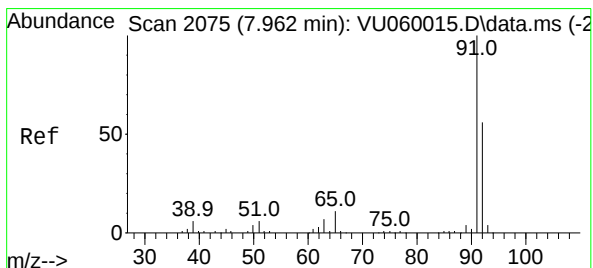
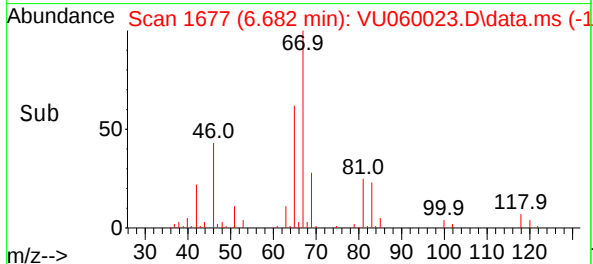
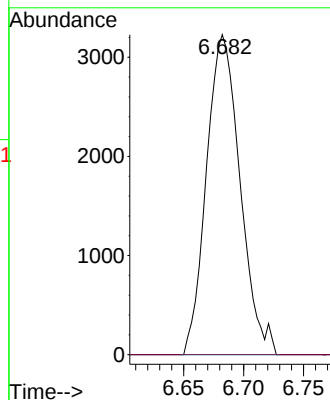
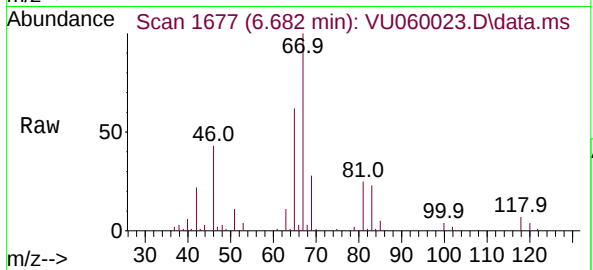




#37
1,2-Dichloropropane
Concen: 0.484 ug/L
RT: 6.682 min Scan# 1
Delta R.T. -0.103 min
Lab File: VU060023.D
Acq: 18 Jul 2024 17:35

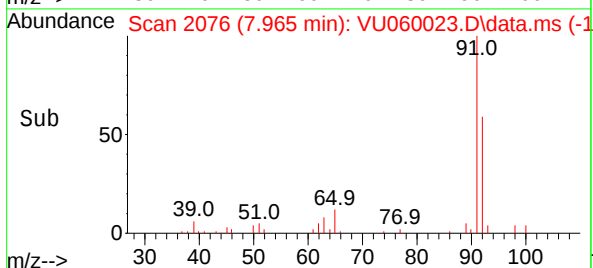
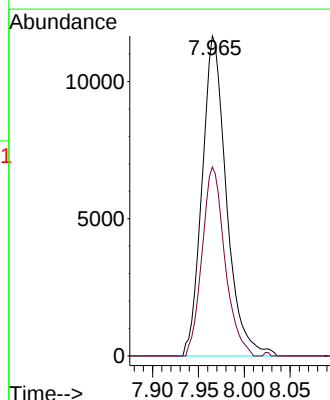
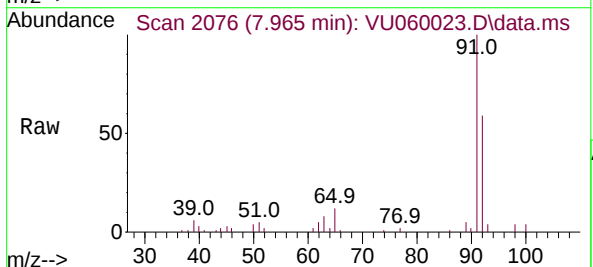
Instrument :
MSVOA_U
ClientSampleId :

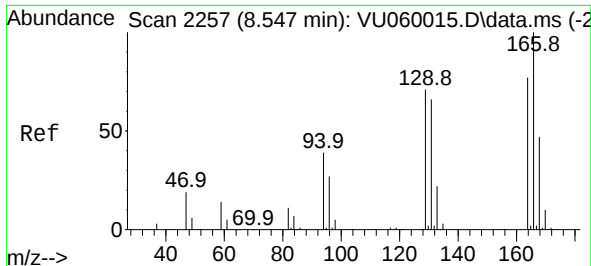
Tgt Ion: 63 Resp: 6298
Ion Ratio Lower Upper
63 100
112 0.0 3.3 4.9#



#42
Toluene
Concen: 0.420 ug/L
RT: 7.965 min Scan# 2076
Delta R.T. 0.003 min
Lab File: VU060023.D
Acq: 18 Jul 2024 17:35

Tgt Ion: 91 Resp: 21507
Ion Ratio Lower Upper
91 100
92 59.0 39.8 73.8





#47

Tetrachloroethene

Concen: 0.564 ug/L

RT: 8.547 min Scan# 21

Delta R.T. 0.000 min

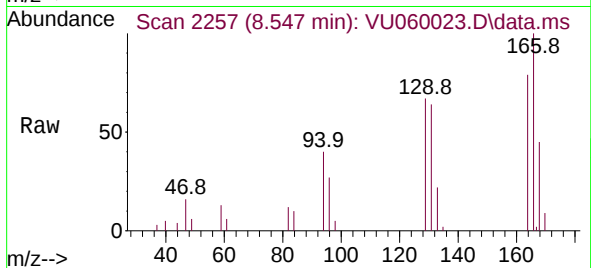
Lab File: VU060023.D

Acq: 18 Jul 2024 17:35

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 5958

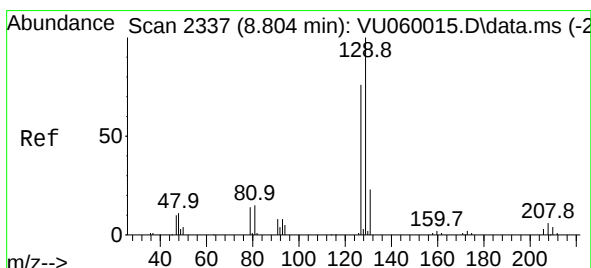
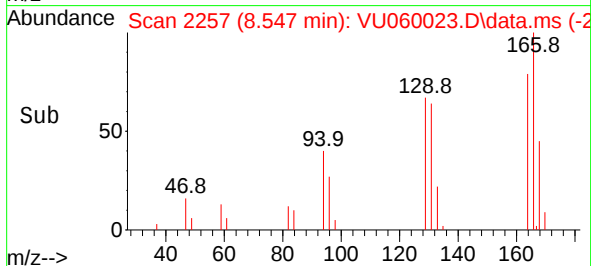
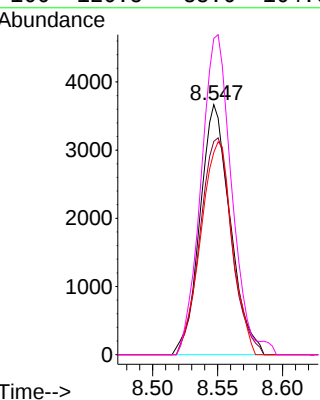
Ion Ratio Lower Upper

164 100

129 85.3 64.6 120.0

131 80.9 61.2 113.8

166 126.5 88.6 164.6



#49

Dibromochloromethane

Concen: 0.489 ug/L

RT: 8.550 min Scan# 2258

Delta R.T. -0.254 min

Lab File: VU060023.D

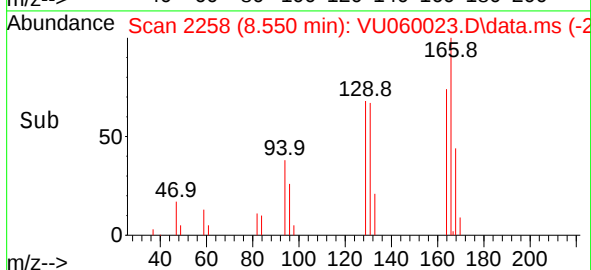
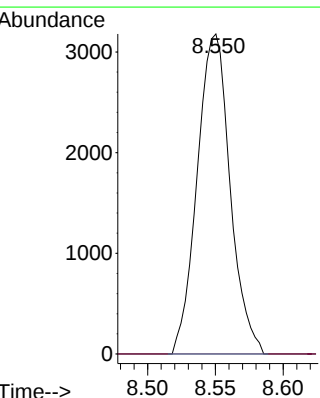
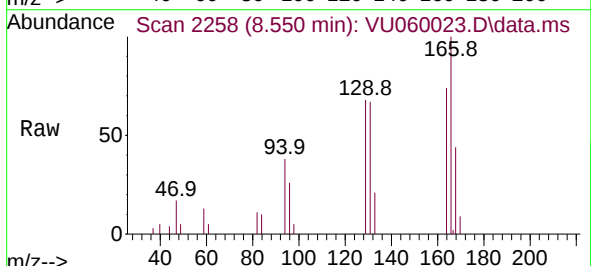
Acq: 18 Jul 2024 17:35

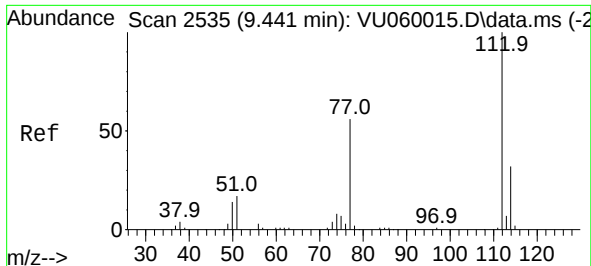
Tgt Ion:129 Resp: 5380

Ion Ratio Lower Upper

129 100

127 0.0 54.6 101.4#





#51

Chlorobenzene

Concen: 0.478 ug/L

RT: 9.441 min Scan# 2535

Delta R.T. -0.000 min

Lab File: VU060023.D

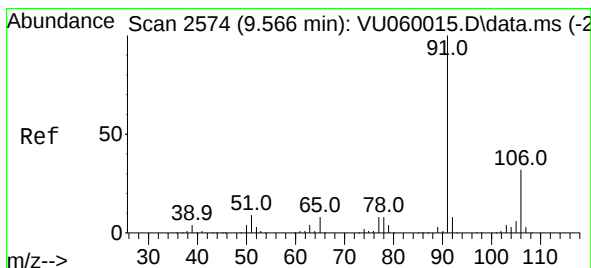
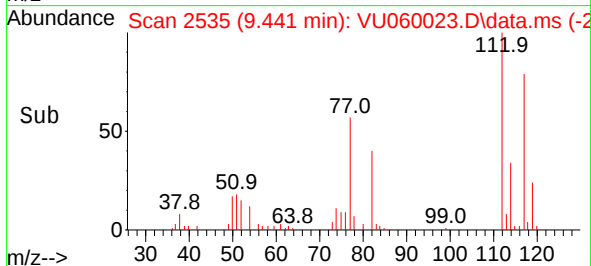
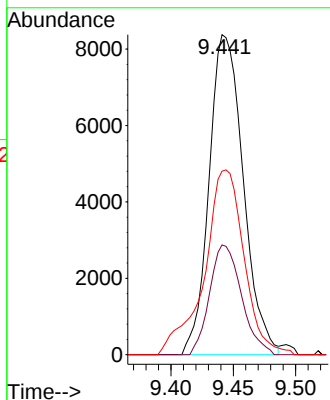
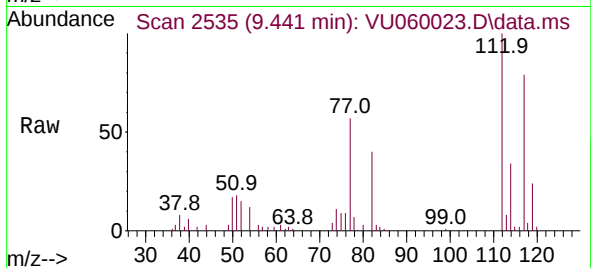
Acq: 18 Jul 2024 17:35

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	112	Resp:	15997
Ion	Ratio	Lower	Upper
112	100		
114	34.3	22.1	41.1
77	57.3	44.7	67.1



#52

Ethylbenzene

Concen: 0.349 ug/L

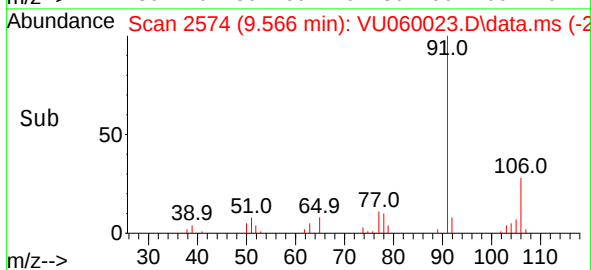
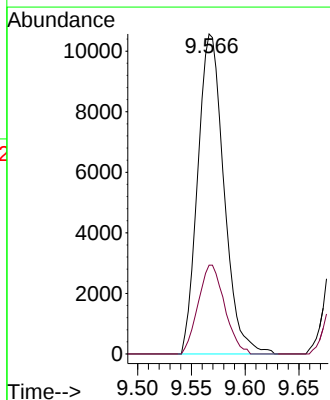
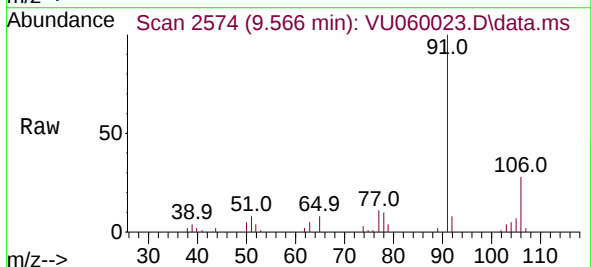
RT: 9.566 min Scan# 2574

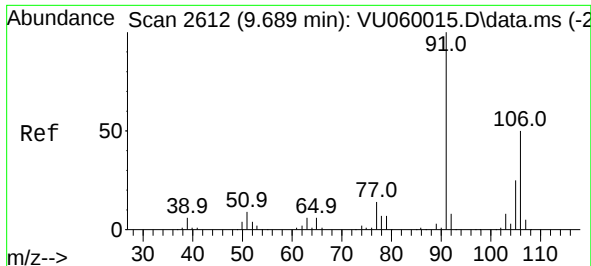
Delta R.T. 0.000 min

Lab File: VU060023.D

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Tgt Ion:	91	Resp:	17856
Ion	Ratio	Lower	Upper
91	100		
106	27.7	21.9	40.7





#53

m,p-Xylene

Concen: 0.304 ug/L

RT: 9.689 min Scan# 2612

Delta R.T. 0.000 min

Lab File: VU060023.D

Acq: 18 Jul 2024 17:35

Instrument :

MSVOA_U

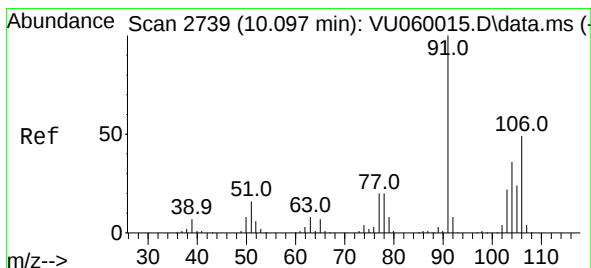
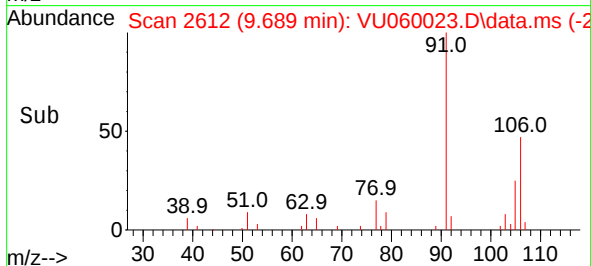
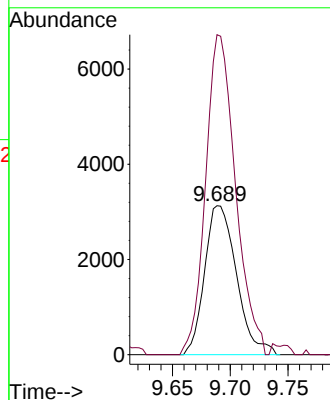
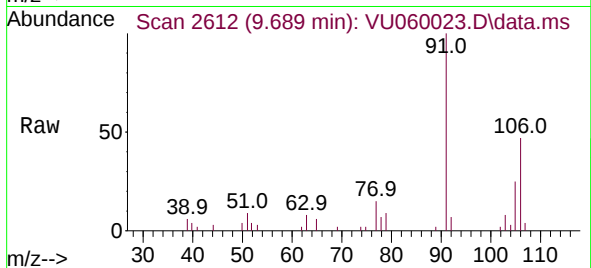
ClientSampleId :

Tgt Ion:106 Resp: 6005

Ion Ratio Lower Upper

106 100

91 214.8 141.3 262.5



#54

o-Xylene

Concen: 0.413 ug/L

RT: 10.097 min Scan# 2739

Delta R.T. 0.000 min

Lab File: VU060023.D

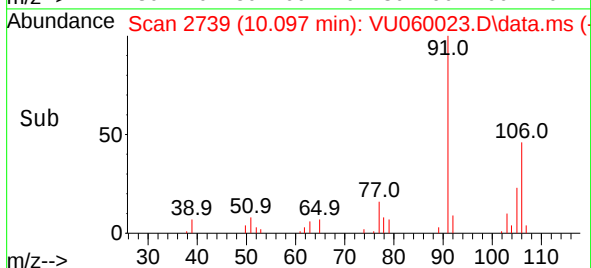
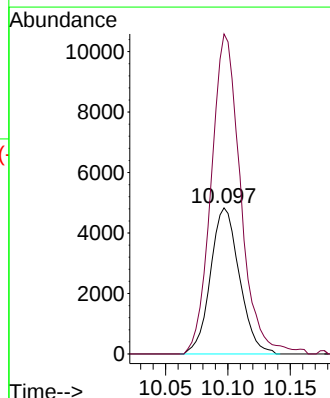
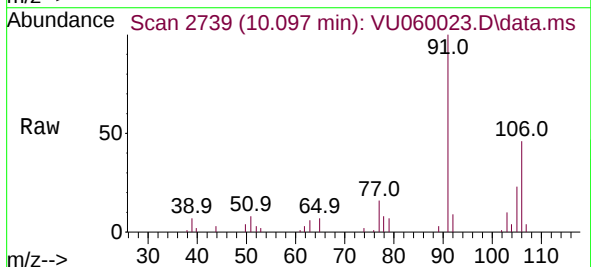
Acq: 18 Jul 2024 17:35

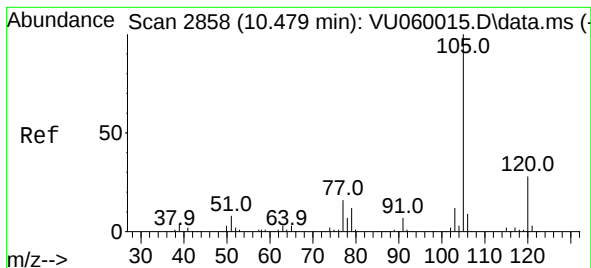
Tgt Ion:106 Resp: 7802

Ion Ratio Lower Upper

106 100

91 219.0 143.6 266.6





#60

Isopropylbenzene

Concen: 0.119 ug/L

RT: 10.479 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU060023.D

Acq: 18 Jul 2024 17:35

Instrument :

MSVOA_U

ClientSampleId :

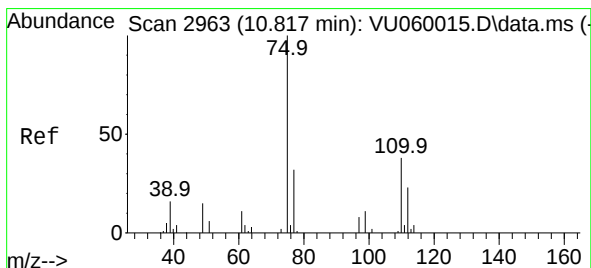
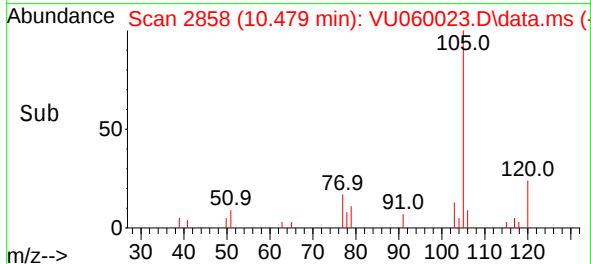
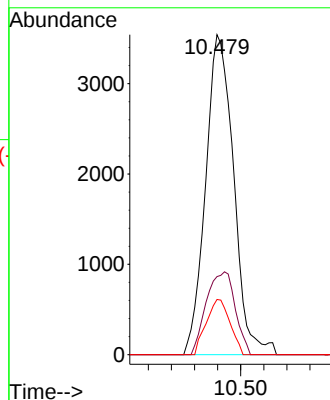
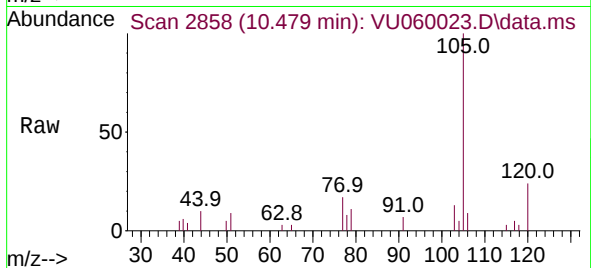
Tgt Ion:105 Resp: 5979

Ion Ratio Lower Upper

105 100

120 26.6 21.9 32.9

77 14.5 12.1 18.1



#61

1,2,3-Trichloropropane

Concen: 1.197 ug/L

RT: 11.807 min Scan# 3271

Delta R.T. 0.990 min

Lab File: VU060023.D

Acq: 18 Jul 2024 17:35

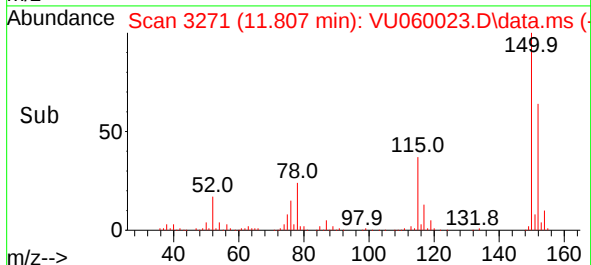
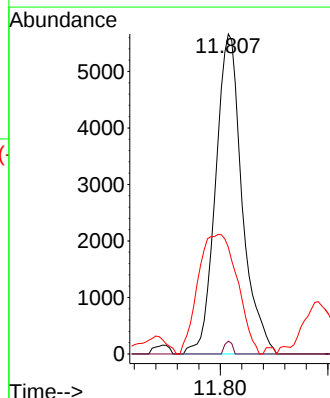
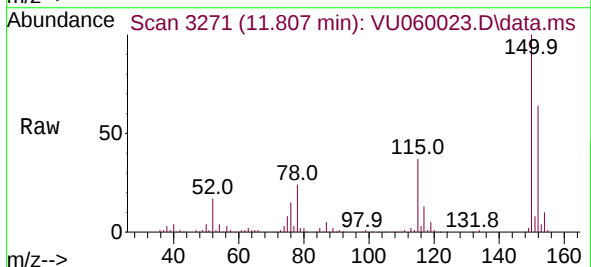
Tgt Ion: 75 Resp: 9686

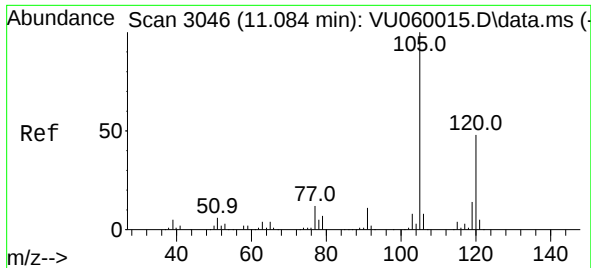
Ion Ratio Lower Upper

75 100

110 1.2 30.8 46.2#

77 55.1 26.2 39.2#





#62

1,3,5-Trimethylbenzene

Concen: 0.319 ug/L

RT: 11.087 min Scan# 3046

Delta R.T. 0.003 min

Lab File: VU060023.D

Acq: 18 Jul 2024 17:35

Instrument :

MSVOA_U

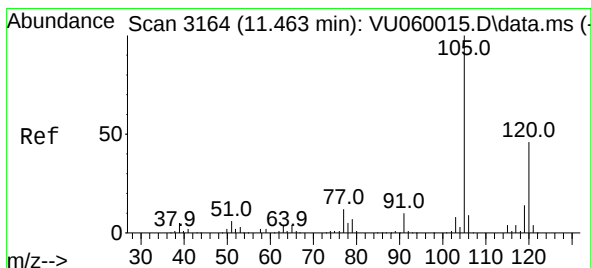
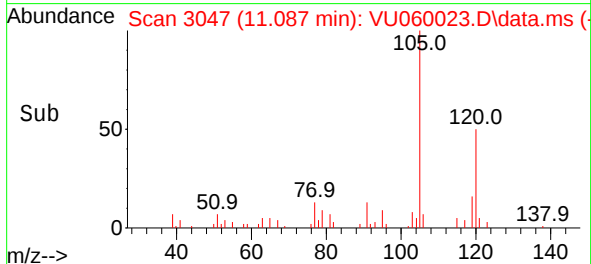
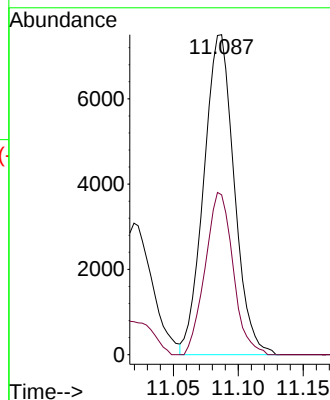
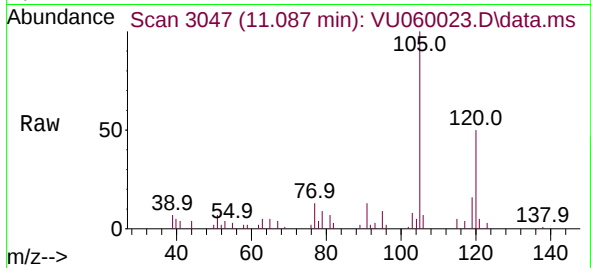
ClientSampleId :

Tgt Ion:105 Resp: 12250

Ion Ratio Lower Upper

105 100

120 46.3 39.4 59.2



#63

1,2,4-Trimethylbenzene

Concen: 0.467 ug/L

RT: 11.467 min Scan# 3165

Delta R.T. 0.003 min

Lab File: VU060023.D

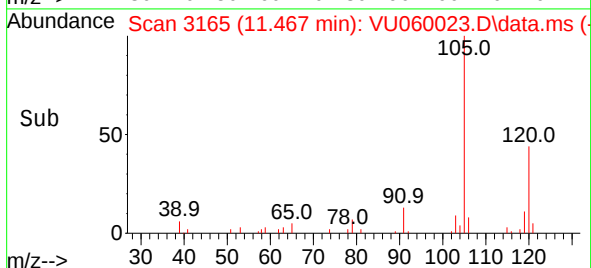
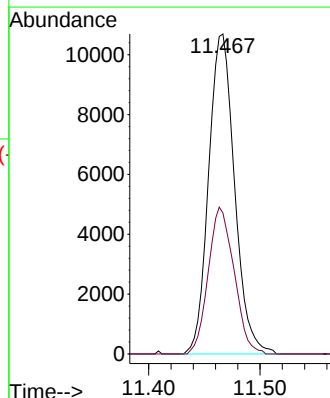
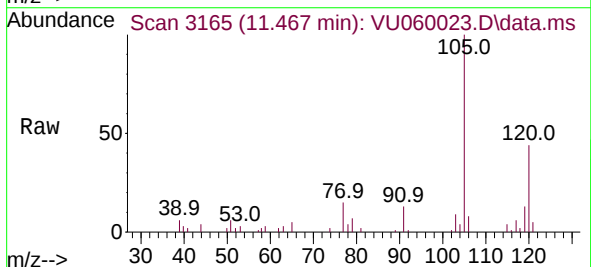
Acq: 18 Jul 2024 17:35

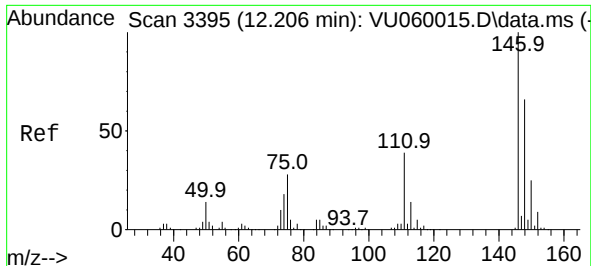
Tgt Ion:105 Resp: 17300

Ion Ratio Lower Upper

105 100

120 45.6 36.7 55.1





#67

1,2-Dichlorobenzene

Concen: 0.398 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. 0.000 min

Lab File: VU060023.D

Acq: 18 Jul 2024 17:35

Instrument :

MSVOA_U

ClientSampleId :

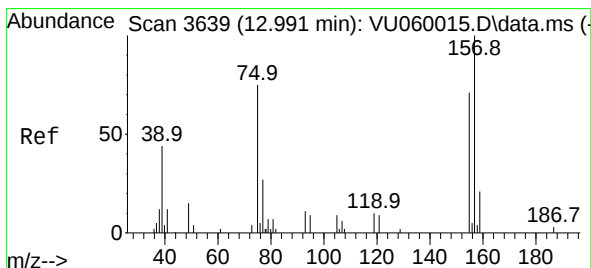
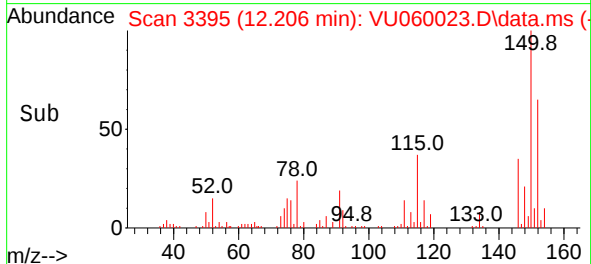
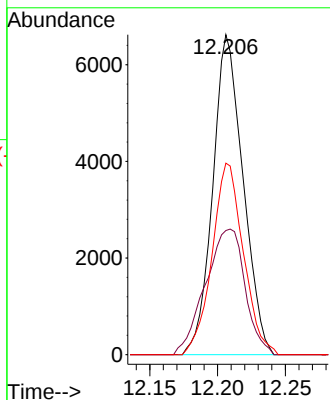
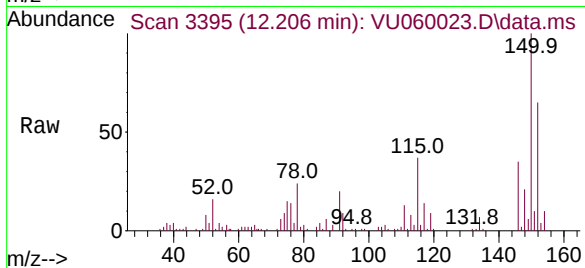
Tgt Ion:146 Resp: 10281

Ion Ratio Lower Upper

146 100

111 38.8 30.9 46.3

148 59.8 49.8 74.8



#68

1,2-Dibromo-3-chloropropane

Concen: 0.101 ug/L

RT: 12.965 min Scan# 3631

Delta R.T. -0.026 min

Lab File: VU060023.D

Acq: 18 Jul 2024 17:35

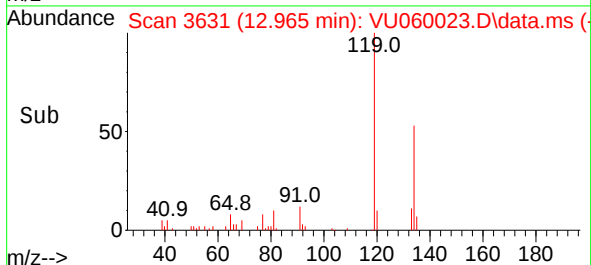
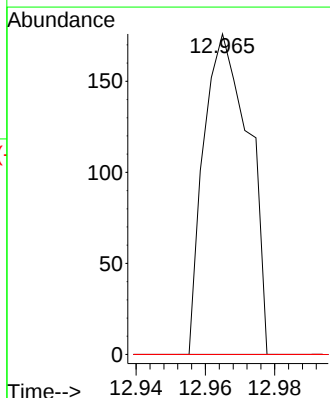
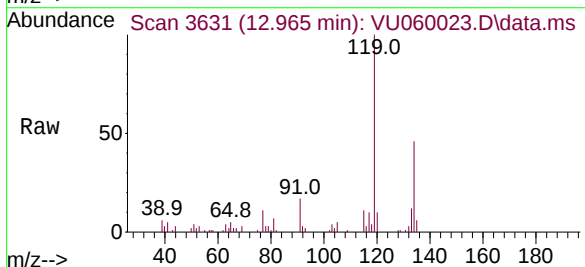
Tgt Ion: 75 Resp: 159

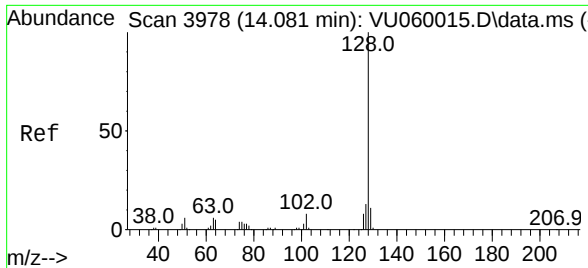
Ion Ratio Lower Upper

75 100

155 0.0 70.6 105.8#

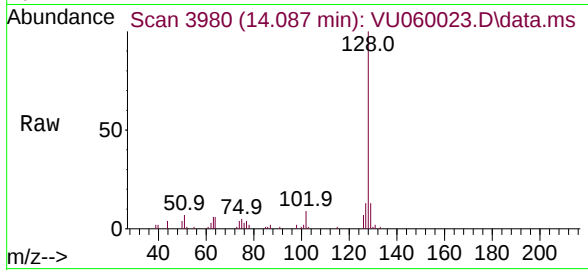
157 0.0 99.4 149.2#





#71
 Naphthalene
 Concen: 1.004 ug/L
 RT: 14.087 min Scan# 3980
 Delta R.T. 0.006 min
 Lab File: VU060023.D
 Acq: 18 Jul 2024 17:35

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	128	Resp:	22057
Ion	Ratio	Lower	Upper
128	100		
129	15.1	8.2	12.4#
127	13.4	10.6	16.0

