

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071824\
 Data File : VU060043.D
 Acq On : 19 Jul 2024 01:57
 Operator : MD/SY
 Sample : P3244-01 40X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 19 03:45:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR071824WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Jul 19 02:49:52 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	140841	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	143199	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	79203	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	38994	3.979	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.600%
7) Chloroethane-d5	1.911	69	37431	4.112	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.200%
11) 1,1-Dichloroethene-d2	2.563	65	15307	4.001	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	80.000%
20) 2-Butanone-d5	4.628	46	109144	47.640	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	95.280%
24) Chloroform-d	5.055	84	84585	4.107	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.200%
26) 1,2-Dichloroethane-d4	5.695	65	41292	4.306	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.200%
32) Benzene-d6	5.721	84	170541	4.445	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.000%
36) 1,2-Dichloropropane-d6	6.682	67	55521	4.541	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.800%
41) Toluene-d8	7.891	98	142572	4.113	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.200%
43) trans-1,3-Dichloroprop...	8.177	79	17781	4.273	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.400%
46) 2-Hexanone-d5	8.627	63	88146	47.731	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.460%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	47817	4.395	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	87.800%
66) 1,2-Dichlorobenzene-d4	12.187	152	66516	4.653	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	264242	18.323	ug/L	98
12) 1,1-Dichloroethene	2.576	96	2571	0.239	ug/L #	1
16) Methylene chloride	3.039	84	5440	0.413	ug/L	92
18) trans-1,2-Dichloroethene	3.348	96	11491	1.028	ug/L	92
19) 1,1-Dichloroethane	3.866	63	10542	0.496	ug/L	98
22) cis-1,2-Dichloroethene	4.657	96	2833099	226.198	ug/L	98
33) Benzene	5.769	78	40095	0.848	ug/L	100
37) 1,2-Dichloropropane	6.682	63	5348	0.418	ug/L #	88
42) Toluene	7.962	91	1652422	32.824	ug/L	100
49) Dibromochloromethane	8.547	129	2703	0.250	ug/L #	10
51) Chlorobenzene	9.441	112	12375	0.376	ug/L	98
52) Ethylbenzene	9.563	91	290082	5.778	ug/L	100
53) m,p-Xylene	9.685	106	379716	19.578	ug/L	99
54) o-Xylene	10.094	106	181190	9.769	ug/L	97
55) Styrene	10.094	104	10844	0.343	ug/L #	1
60) Isopropylbenzene	10.480	105	26933	0.520	ug/L #	65
61) 1,2,3-Trichloropropane	10.991	75	2687	0.322	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.081	105	140386	3.547	ug/L	99
63) 1,2,4-Trimethylbenzene	11.460	105	618549	16.172	ug/L	100

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QLast Update : Fri Jul 19 02:49:52 2024
Response via : Initial Calibration

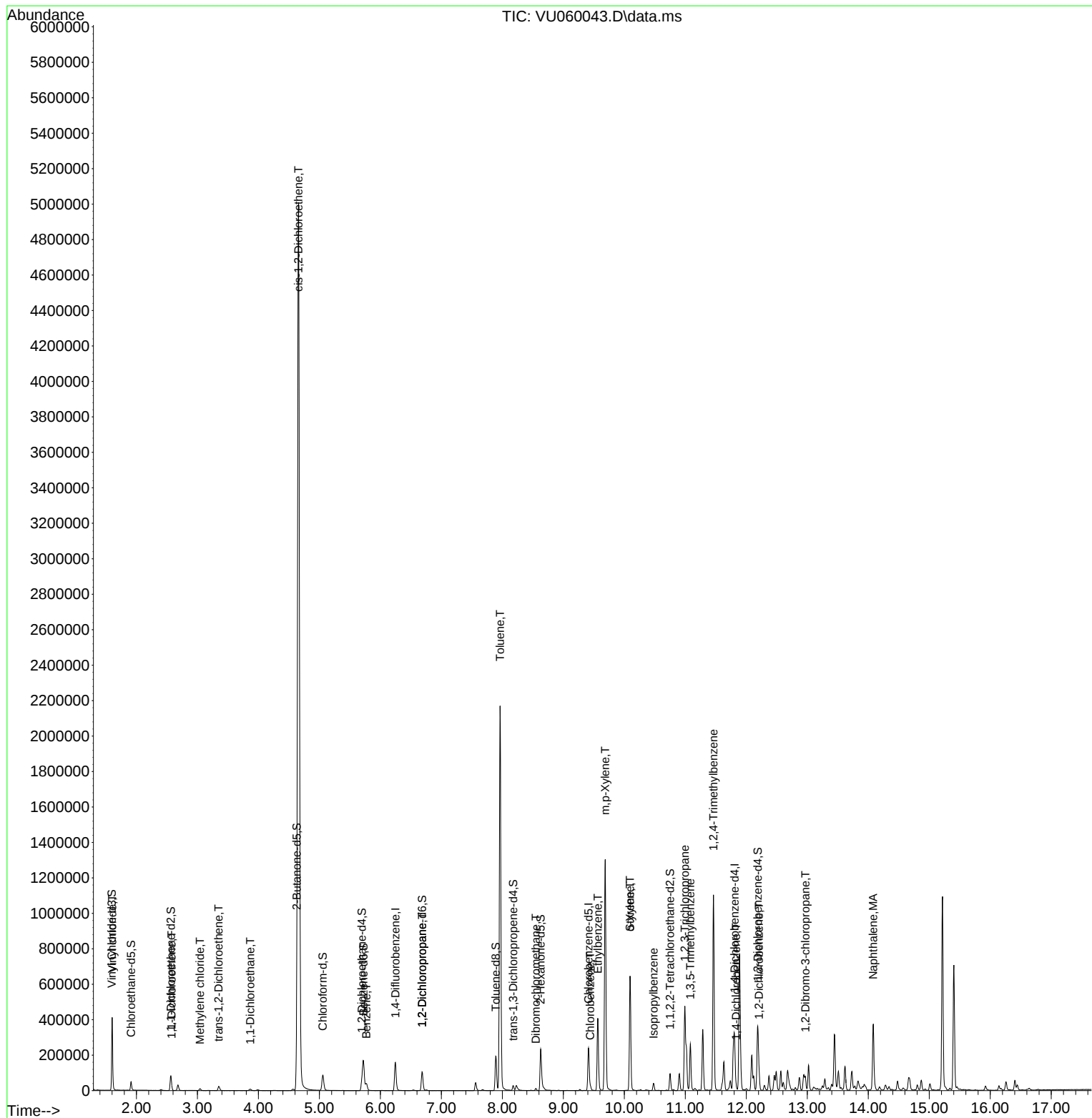
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.833	146	6891	0.243	ug/L	95
67) 1,2-Dichlorobenzene	12.206	146	32568	1.221	ug/L	92
68) 1,2-Dibromo-3-chloropr...	12.968	75	182	0.112	ug/L #	1
71) Naphthalene	14.081	128	314972	13.884	ug/L	98

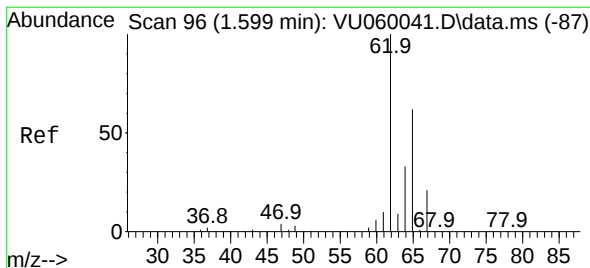
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 18.323 ug/L

RT: 1.602 min Scan# 91

Delta R.T. 0.003 min

Lab File: VU060043.D

Acq: 19 Jul 2024 01:57

Instrument :

MSVOA_U

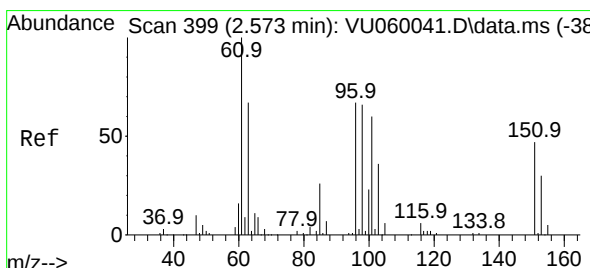
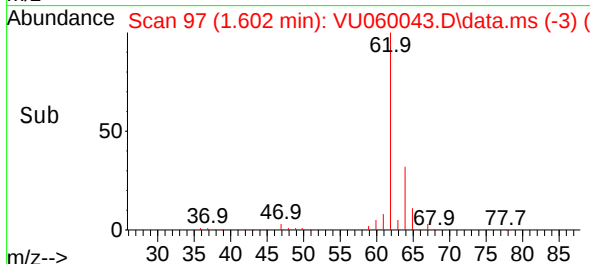
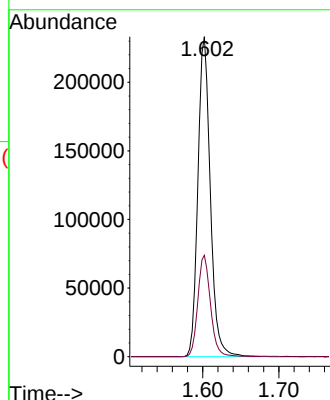
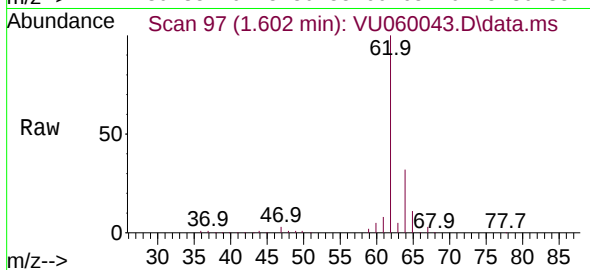
ClientSampleId :

Tgt Ion: 62 Resp: 264242

Ion Ratio Lower Upper

62 100

64 31.7 22.8 42.4



#12

1,1-Dichloroethene

Concen: 0.239 ug/L

RT: 2.576 min Scan# 400

Delta R.T. 0.003 min

Lab File: VU060043.D

Acq: 19 Jul 2024 01:57

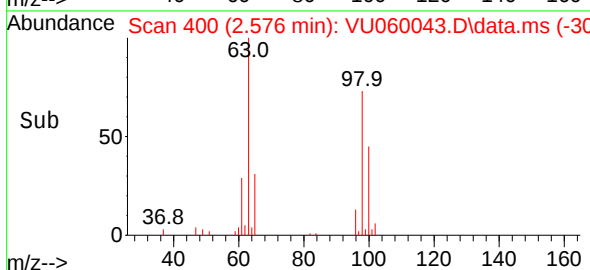
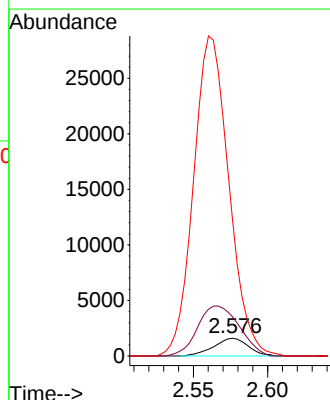
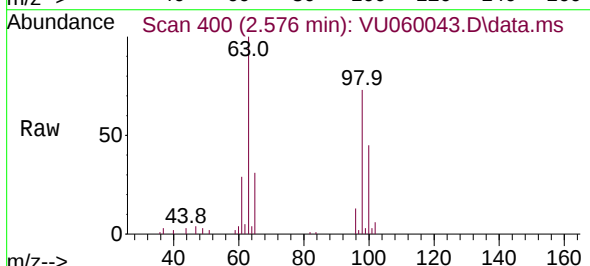
Tgt Ion: 96 Resp: 2571

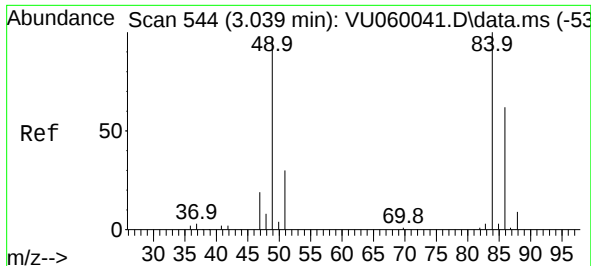
Ion Ratio Lower Upper

96 100

61 221.3 107.0 198.6#

63 769.0 76.4 142.0#





#16

Methylene chloride

Concen: 0.413 ug/L

RT: 3.039 min Scan# 544

Delta R.T. 0.000 min

Lab File: VU060043.D

Acq: 19 Jul 2024 01:57

Instrument :

MSVOA_U

ClientSampleId :

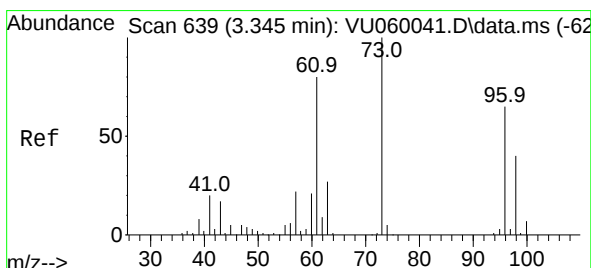
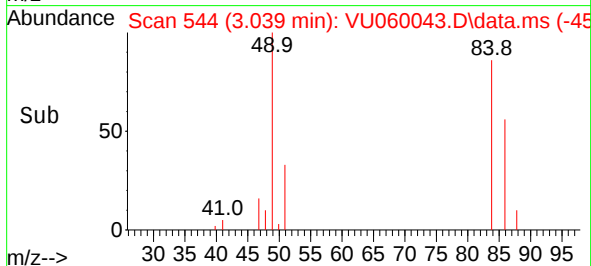
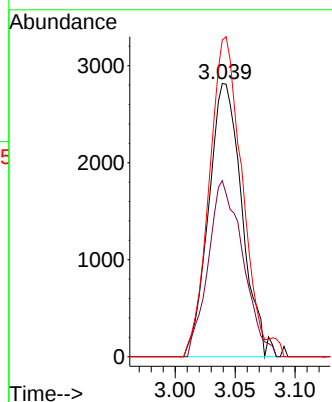
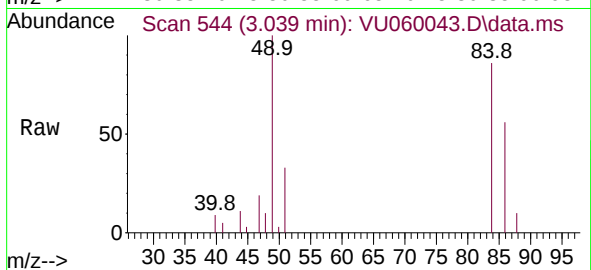
Tgt Ion: 84 Resp: 5440

Ion Ratio Lower Upper

84 100

86 64.4 44.4 82.5

49 116.0 72.0 133.6



#18

trans-1,2-Dichloroethene

Concen: 1.028 ug/L

RT: 3.348 min Scan# 640

Delta R.T. 0.003 min

Lab File: VU060043.D

Acq: 19 Jul 2024 01:57

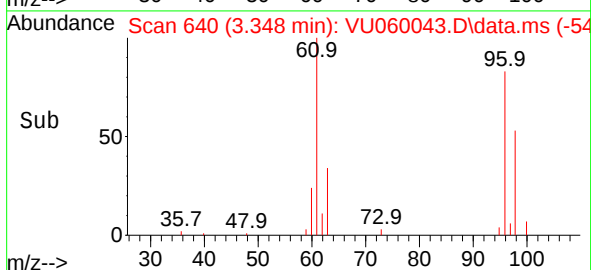
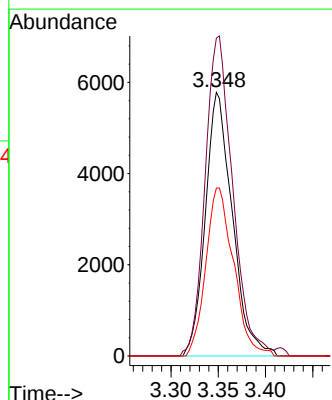
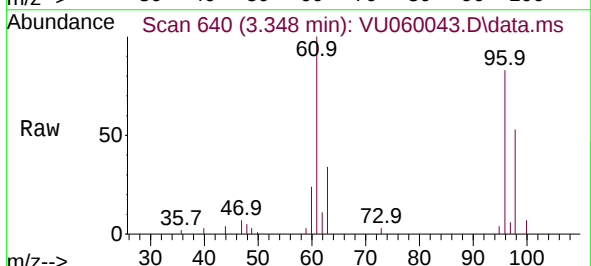
Tgt Ion: 96 Resp: 11491

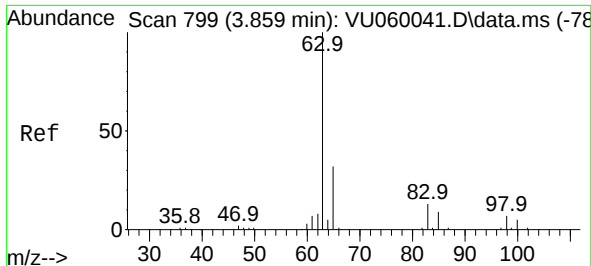
Ion Ratio Lower Upper

96 100

61 120.5 91.6 170.0

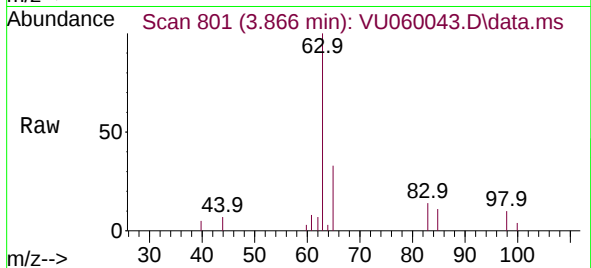
98 63.7 47.7 88.5



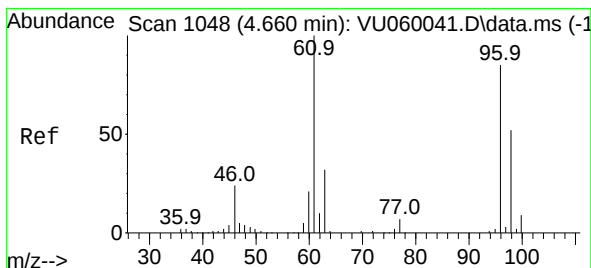
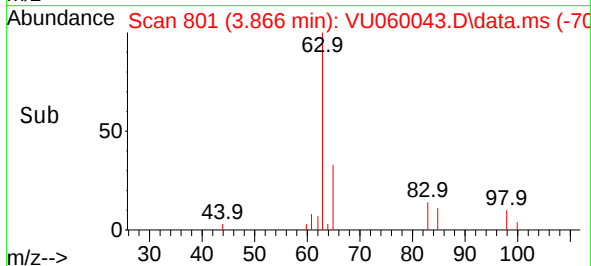
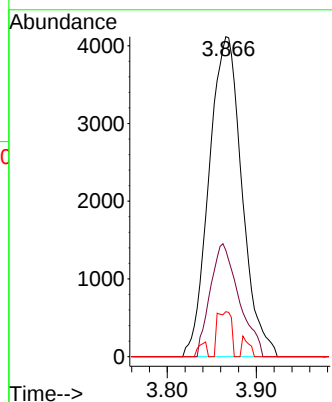


#19
1,1-Dichloroethane
Concen: 0.496 ug/L
RT: 3.866 min Scan# 801
Delta R.T. 0.006 min
Lab File: VU060043.D
Acq: 19 Jul 2024 01:57

Instrument :
MSVOA_U
ClientSampleId :

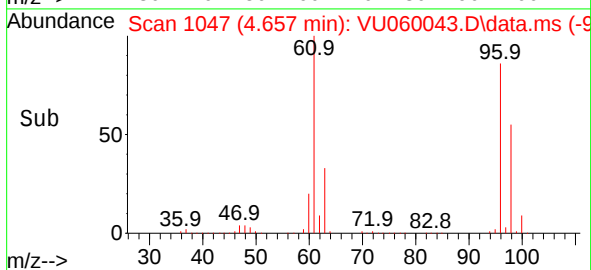
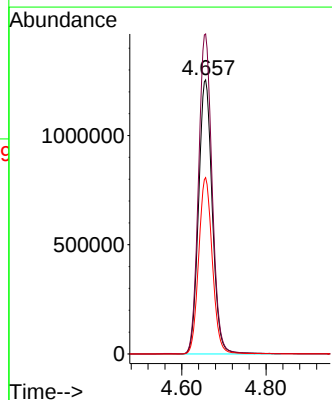
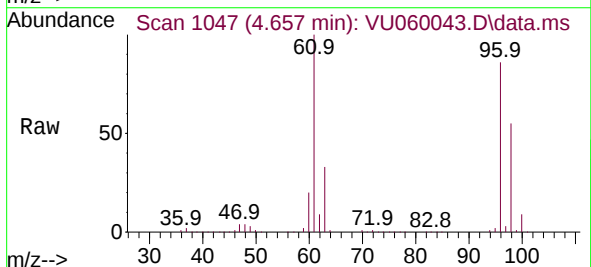


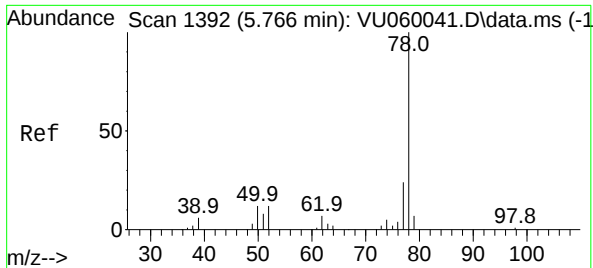
Tgt Ion: 63 Resp: 10542
Ion Ratio Lower Upper
63 100
65 33.2 22.0 40.8
83 14.1 9.7 17.9



#22
cis-1,2-Dichloroethene
Concen: 226.198 ug/L
RT: 4.657 min Scan# 1047
Delta R.T. -0.003 min
Lab File: VU060043.D
Acq: 19 Jul 2024 01:57

Tgt Ion: 96 Resp: 2833099
Ion Ratio Lower Upper
96 100
61 116.7 80.2 148.9
98 64.3 44.7 83.1

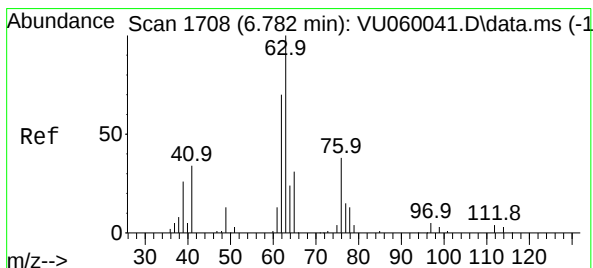
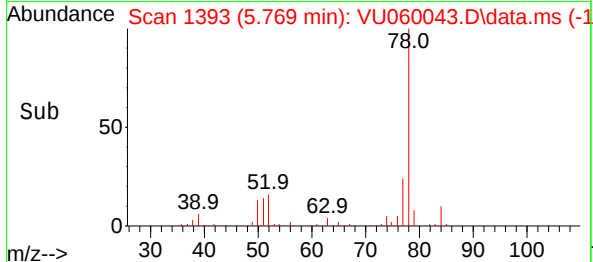
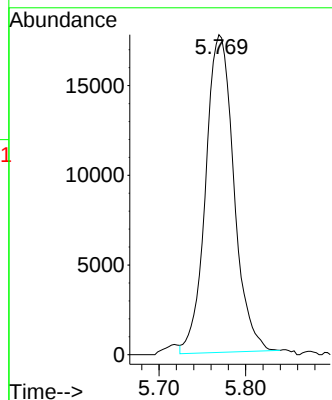
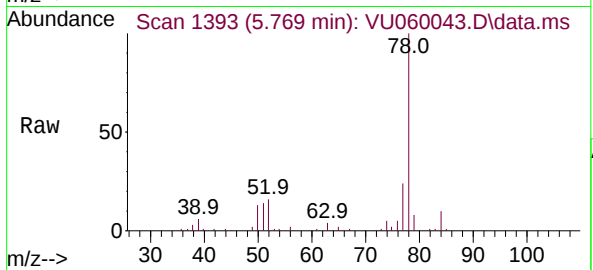




#33
Benzene
Concen: 0.848 ug/L
RT: 5.769 min Scan# 14
Delta R.T. 0.003 min
Lab File: VU060043.D
Acq: 19 Jul 2024 01:57

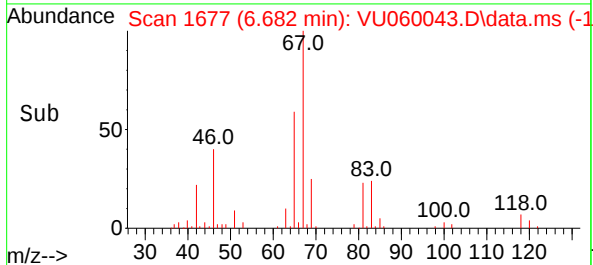
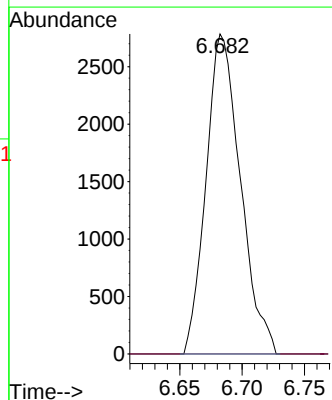
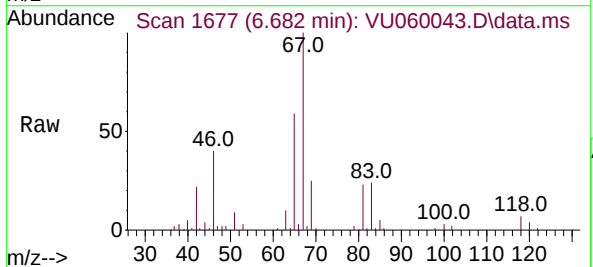
Instrument :
MSVOA_U
ClientSampleId :

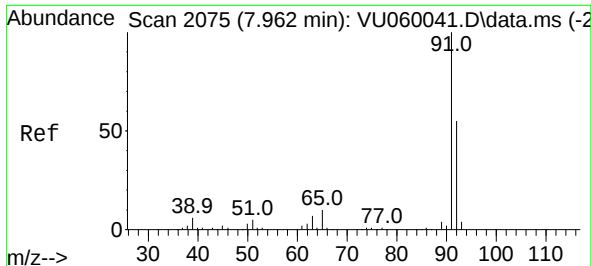
Tgt Ion: 78 Resp: 40095



#37
1,2-Dichloropropane
Concen: 0.418 ug/L
RT: 6.682 min Scan# 1677
Delta R.T. -0.100 min
Lab File: VU060043.D
Acq: 19 Jul 2024 01:57

Tgt Ion: 63 Resp: 5348
Ion Ratio Lower Upper
63 100
112 0.0 3.3 4.9#





#42

Toluene

Concen: 32.824 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. 0.000 min

Lab File: VU060043.D

Acq: 19 Jul 2024 01:57

Instrument :

MSVOA_U

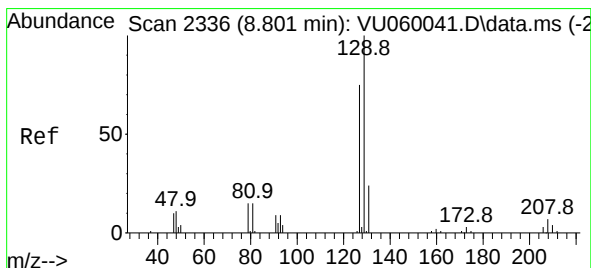
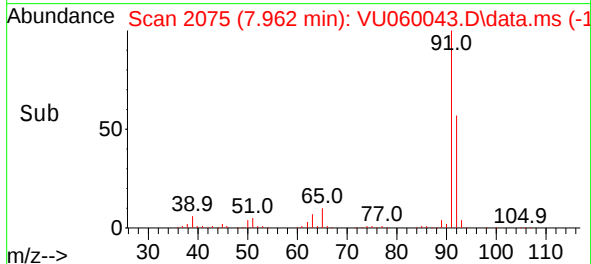
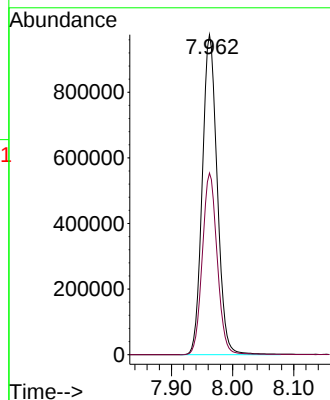
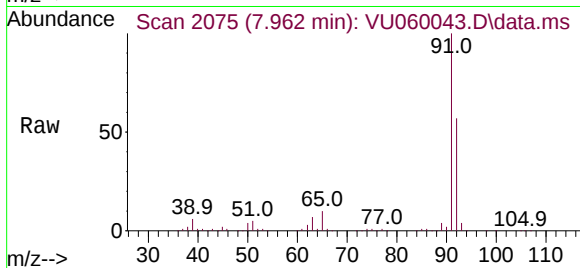
ClientSampleId :

Tgt Ion: 91 Resp: 1652422

Ion Ratio Lower Upper

91 100

92 56.7 39.8 73.8



#49

Dibromochloromethane

Concen: 0.250 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.254 min

Lab File: VU060043.D

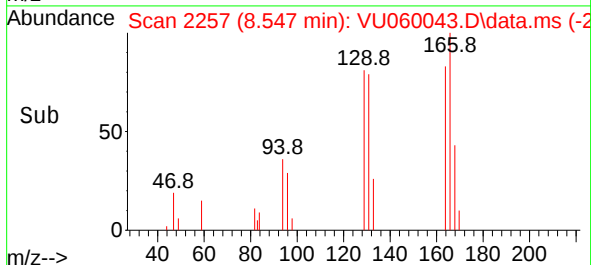
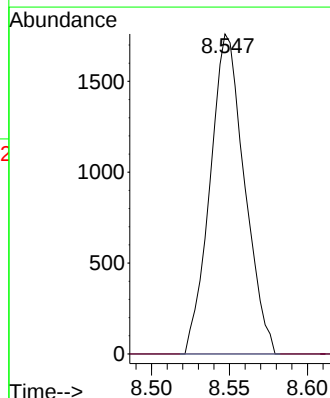
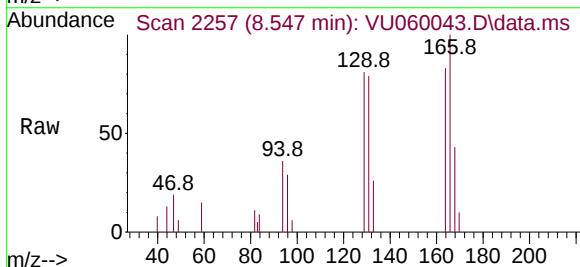
Acq: 19 Jul 2024 01:57

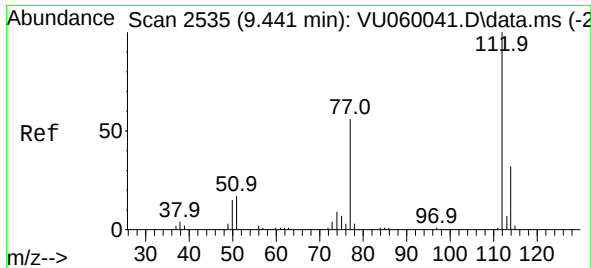
Tgt Ion: 129 Resp: 2703

Ion Ratio Lower Upper

129 100

127 0.0 54.6 101.4#





#51

Chlorobenzene

Concen: 0.376 ug/L

RT: 9.441 min Scan# 2535

Delta R.T. 0.000 min

Lab File: VU060043.D

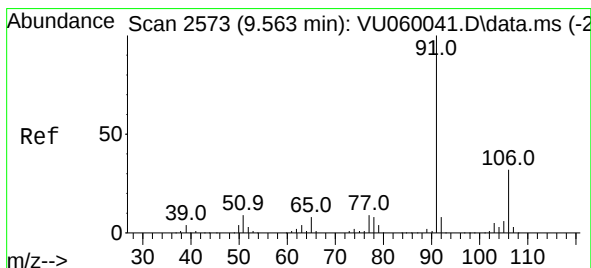
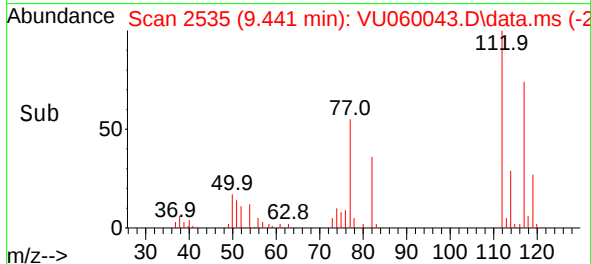
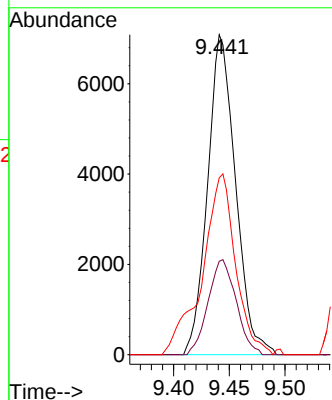
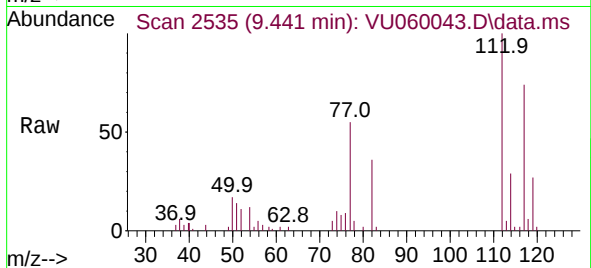
Acq: 19 Jul 2024 01:57

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	112	Resp:	12375
Ion Ratio	Lower	Upper	
112	100		
114	29.2	22.1	41.1
77	55.2	44.7	67.1



#52

Ethylbenzene

Concen: 5.778 ug/L

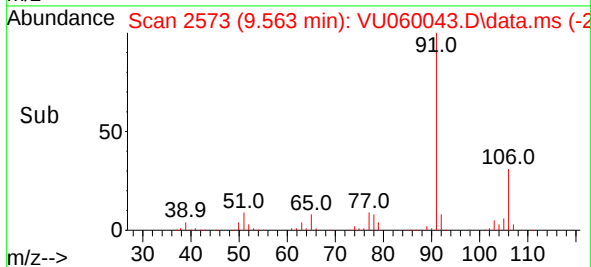
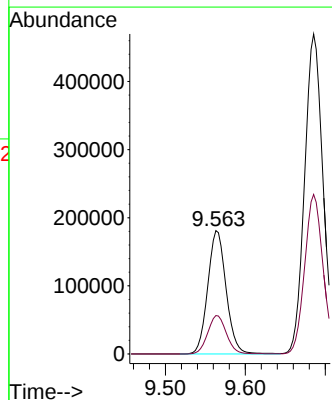
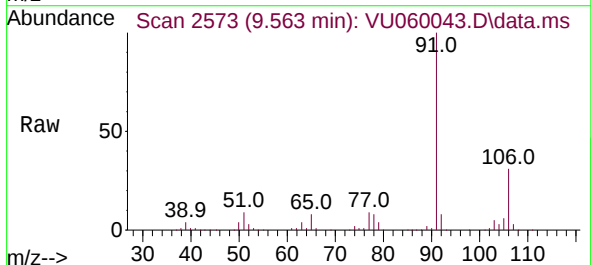
RT: 9.563 min Scan# 2573

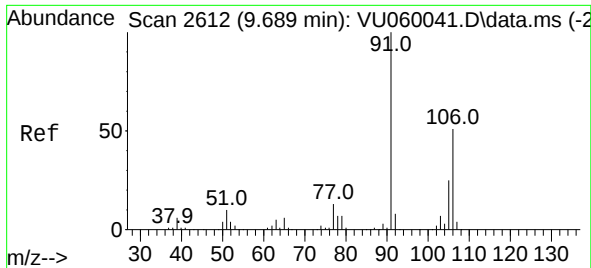
Delta R.T. 0.000 min

Lab File: VU060043.D

Acq: 19 Jul 2024 01:57

Tgt Ion:	91	Resp:	290082
Ion Ratio	Lower	Upper	
91	100		
106	31.2	21.9	40.7





#53

m,p-Xylene

Concen: 19.578 ug/L

RT: 9.685 min Scan# 2

Delta R.T. -0.003 min

Lab File: VU060043.D

Acq: 19 Jul 2024 01:57

Instrument :

MSVOA_U

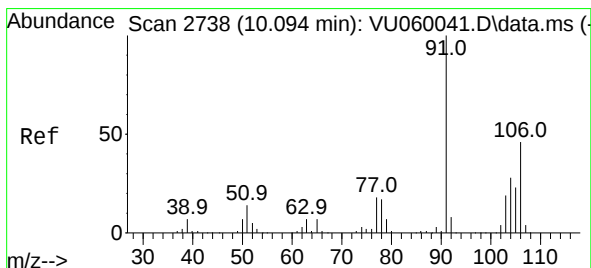
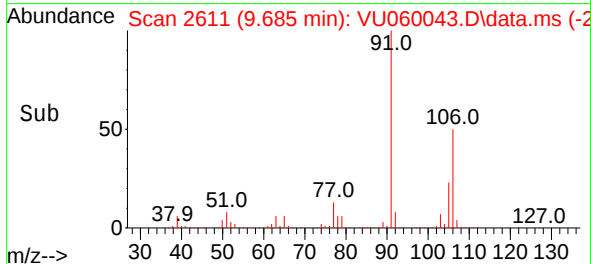
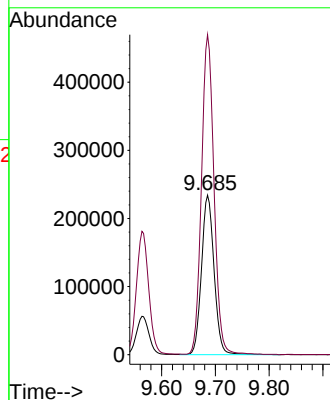
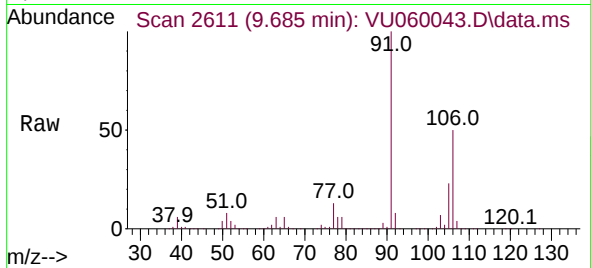
ClientSampleId :

Tgt Ion:106 Resp: 379716

Ion Ratio Lower Upper

106 100

91 200.7 141.3 262.5



#54

o-Xylene

Concen: 9.769 ug/L

RT: 10.094 min Scan# 2738

Delta R.T. 0.000 min

Lab File: VU060043.D

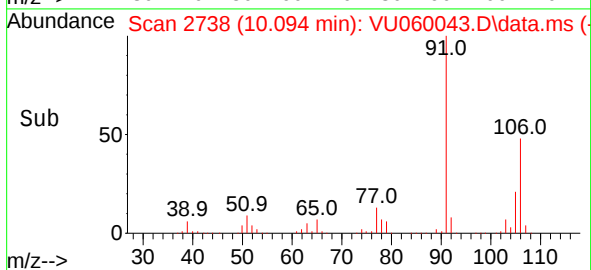
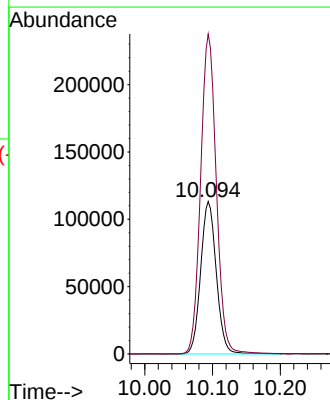
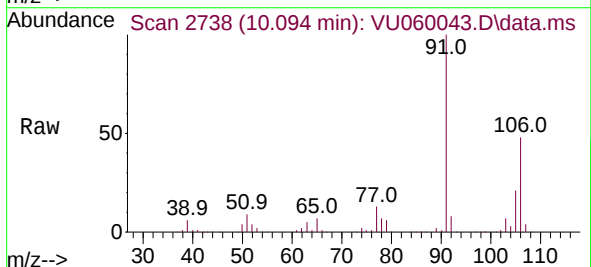
Acq: 19 Jul 2024 01:57

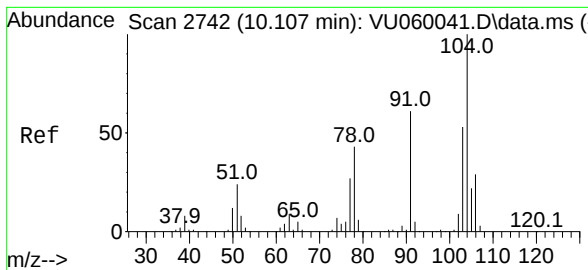
Tgt Ion:106 Resp: 181190

Ion Ratio Lower Upper

106 100

91 209.8 143.6 266.6





#55

Styrene

Concen: 0.343 ug/L

RT: 10.094 min Scan# 21

Delta R.T. -0.013 min

Lab File: VU060043.D

Acq: 19 Jul 2024 01:57

Instrument :

MSVOA_U

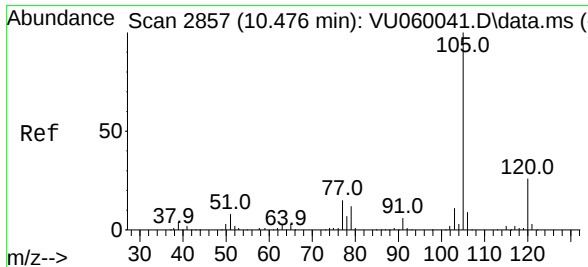
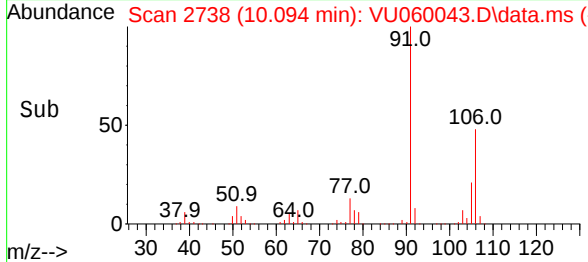
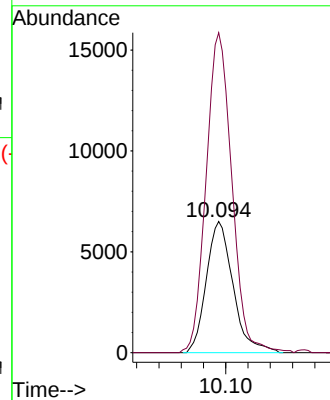
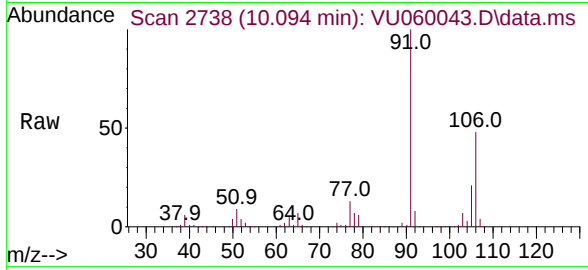
ClientSampleId :

Tgt Ion:104 Resp: 10844

Ion Ratio Lower Upper

104 100

78 243.9 31.4 58.4#



#60

Isopropylbenzene

Concen: 0.520 ug/L

RT: 10.480 min Scan# 2858

Delta R.T. 0.003 min

Lab File: VU060043.D

Acq: 19 Jul 2024 01:57

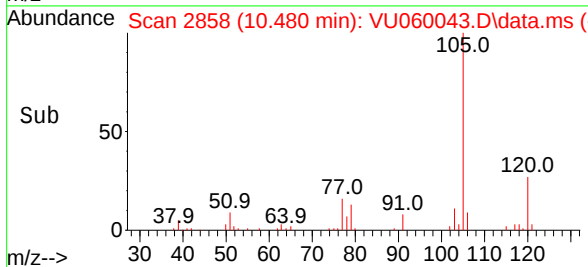
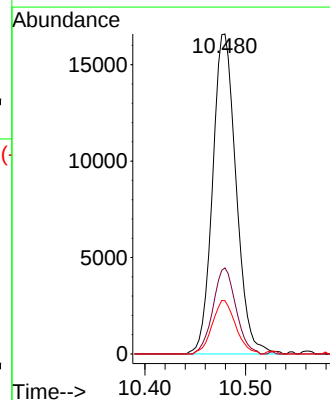
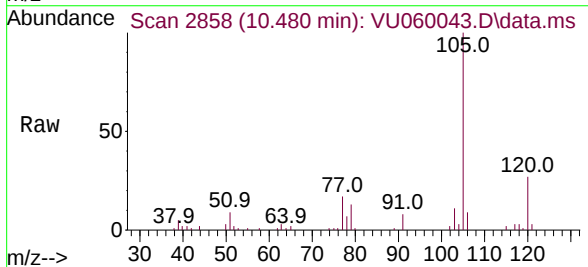
Tgt Ion:105 Resp: 26933

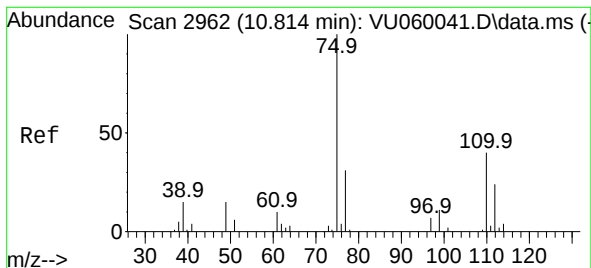
Ion Ratio Lower Upper

105 100

120 0.0 21.9 32.9#

77 16.6 12.1 18.1





#61

1,2,3-Trichloropropane

Concen: 0.322 ug/L

RT: 10.991 min Scan# 3017

Delta R.T. 0.177 min

Lab File: VU060043.D

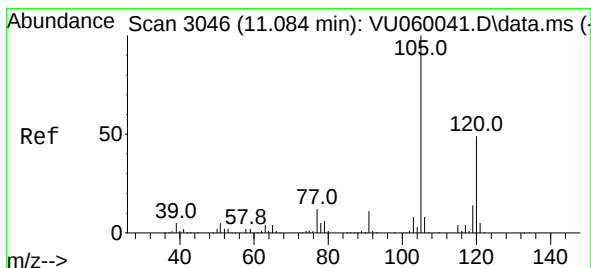
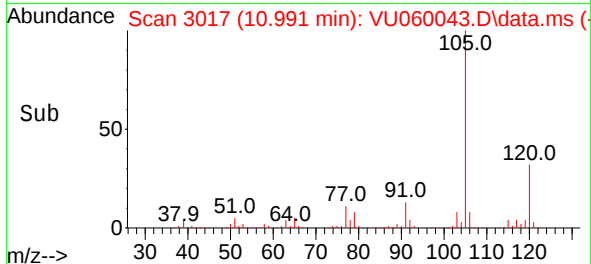
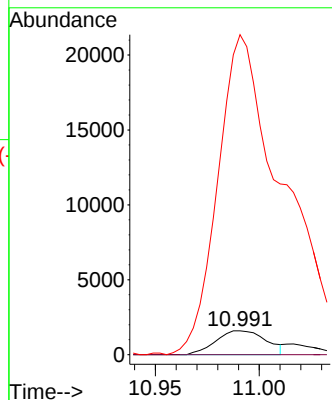
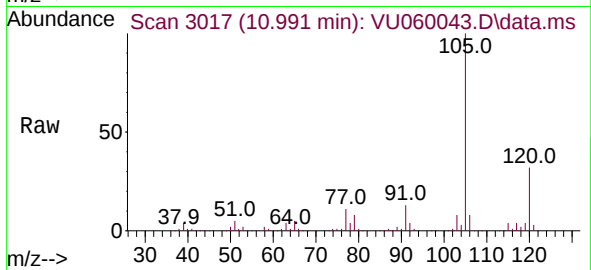
Acq: 19 Jul 2024 01:57

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 75 Resp: 2687
 Ion Ratio Lower Upper
 75 100
 110 0.0 30.8 46.2#
 77 1754.1 26.2 39.2#



#62

1,3,5-Trimethylbenzene

Concen: 3.547 ug/L

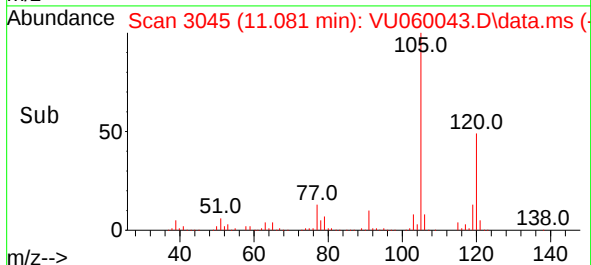
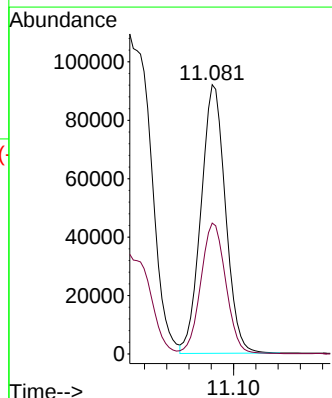
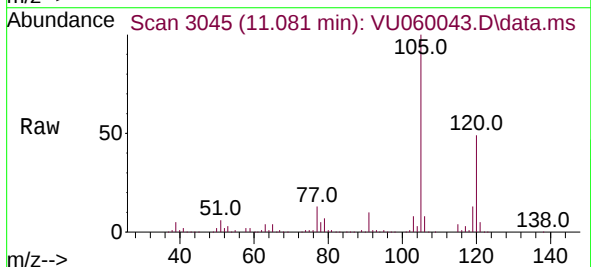
RT: 11.081 min Scan# 3045

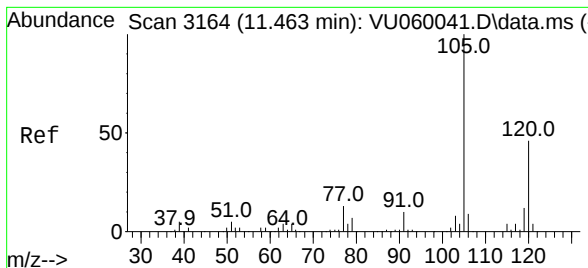
Delta R.T. -0.003 min

Lab File: VU060043.D

Acq: 19 Jul 2024 01:57

Tgt Ion:105 Resp: 140386
 Ion Ratio Lower Upper
 105 100
 120 49.8 39.4 59.2





#63

1,2,4-Trimethylbenzene

Concen: 16.172 ug/L

RT: 11.460 min Scan# 3164

Delta R.T. -0.003 min

Lab File: VU060043.D

Acq: 19 Jul 2024 01:57

Instrument :

MSVOA_U

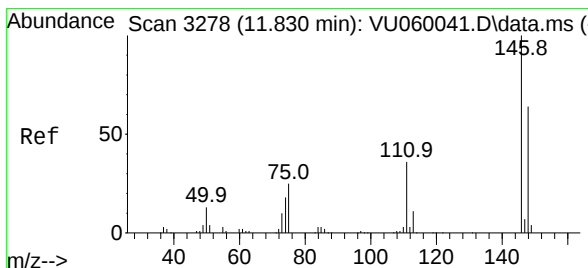
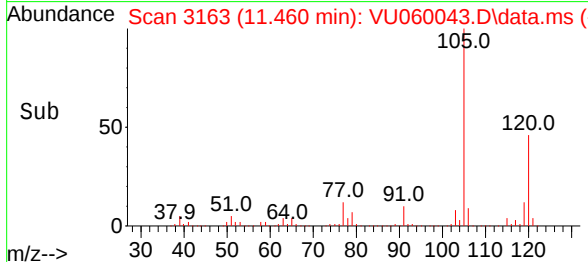
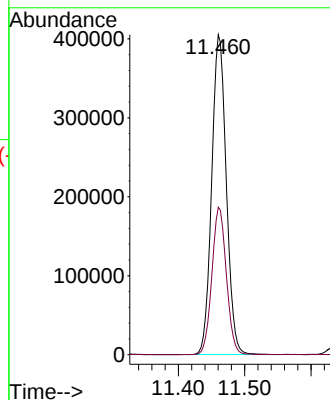
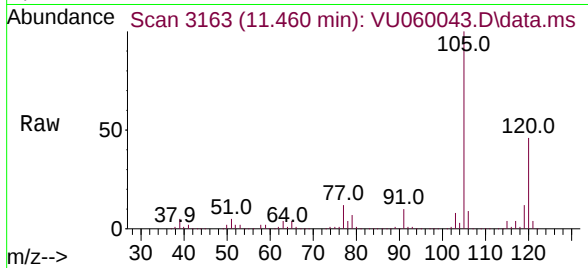
ClientSampleId :

Tgt Ion:105 Resp: 618549

Ion Ratio Lower Upper

105 100

120 45.8 36.7 55.1



#65

1,4-Dichlorobenzene

Concen: 0.243 ug/L

RT: 11.833 min Scan# 3279

Delta R.T. 0.003 min

Lab File: VU060043.D

Acq: 19 Jul 2024 01:57

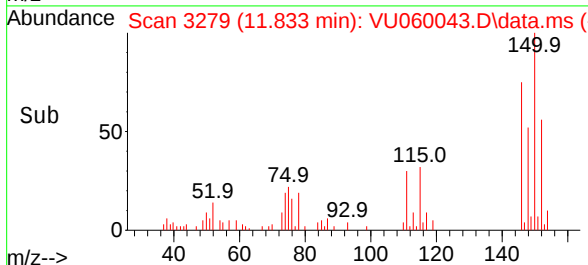
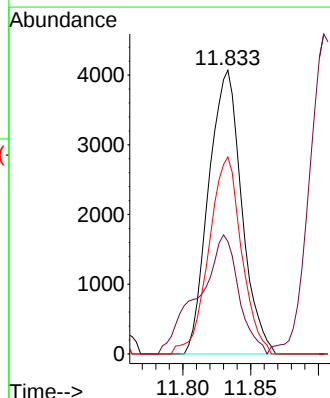
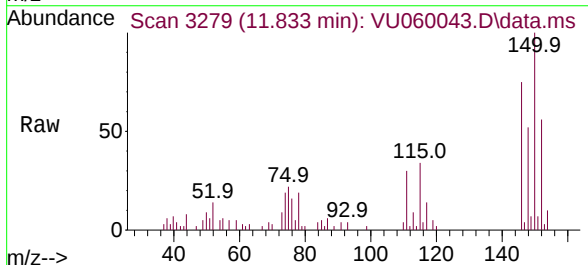
Tgt Ion:146 Resp: 6891

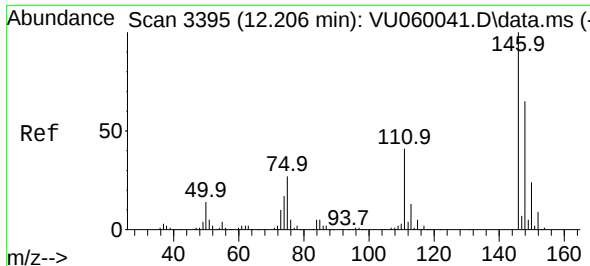
Ion Ratio Lower Upper

146 100

111 39.7 26.5 49.1

148 69.4 45.3 84.1





#67

1,2-Dichlorobenzene

Concen: 1.221 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. 0.000 min

Lab File: VU060043.D

Acq: 19 Jul 2024 01:57

Instrument :

MSVOA_U

ClientSampleId :

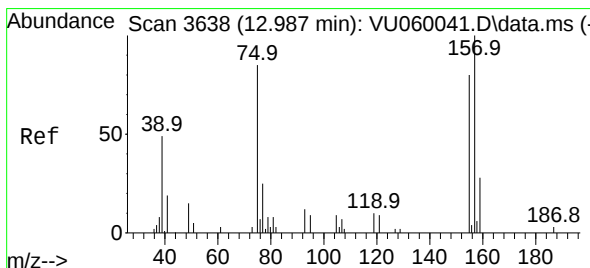
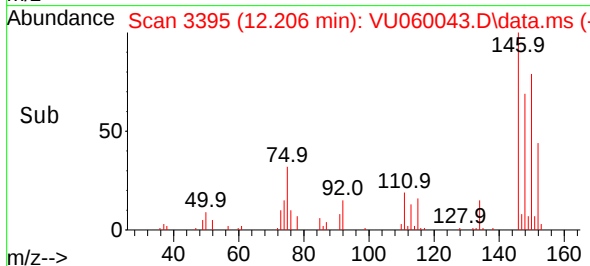
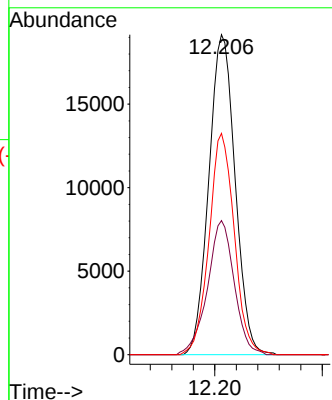
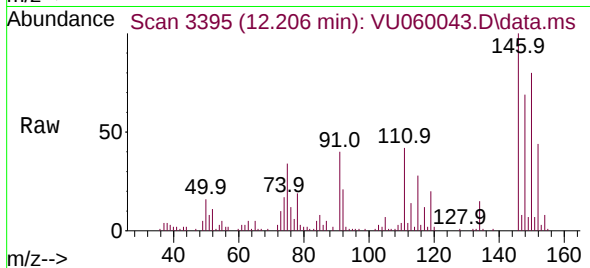
Tgt Ion:146 Resp: 32568

Ion Ratio Lower Upper

146 100

111 41.9 30.9 46.3

148 69.1 49.8 74.8



#68

1,2-Dibromo-3-chloropropane

Concen: 0.112 ug/L

RT: 12.968 min Scan# 3632

Delta R.T. -0.019 min

Lab File: VU060043.D

Acq: 19 Jul 2024 01:57

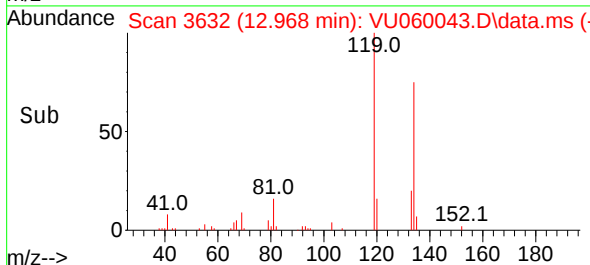
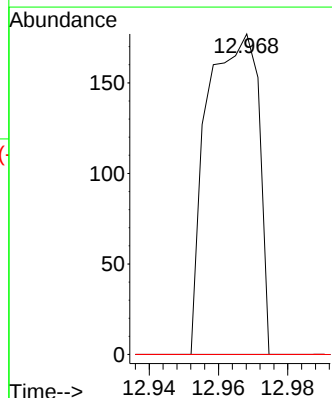
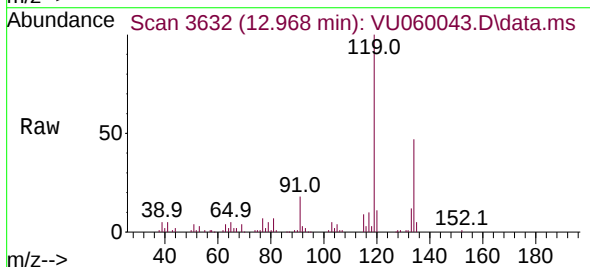
Tgt Ion: 75 Resp: 182

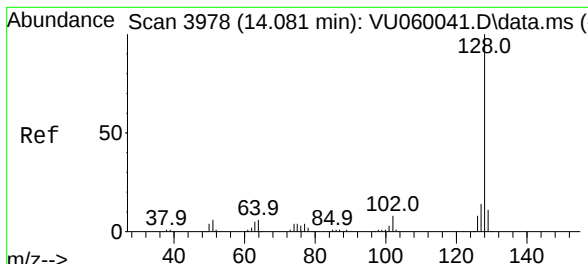
Ion Ratio Lower Upper

75 100

155 0.0 70.6 105.8#

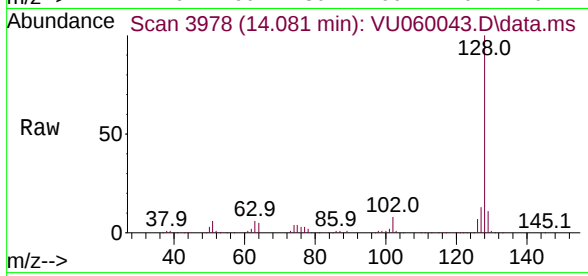
157 0.0 99.4 149.2#





#71
 Naphthalene
 Concen: 13.884 ug/L
 RT: 14.081 min Scan# 314972
 Delta R.T. 0.000 min
 Lab File: VU060043.D
 Acq: 19 Jul 2024 01:57

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:128 Resp: 314972

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.2	12.4
127	13.1	10.6	16.0

