

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071824\
 Data File : VU060053.D
 Acq On : 19 Jul 2024 11:50
 Operator : MD/SY
 Sample : P3217-03DL 100X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 20 00:57:07 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	6.242	114	140774	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	142864	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	72994	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	34893	3.562	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	71.200%
7) Chloroethane-d5	1.911	69	35071	3.854	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	77.000%
11) 1,1-Dichloroethene-d2	2.563	65	15109	3.951	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	79.000%
20) 2-Butanone-d5	4.624	46	99397	43.407	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	86.820%
24) Chloroform-d	5.055	84	81459	3.957	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.200%
26) 1,2-Dichloroethane-d4	5.695	65	41182	4.297	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.000%
32) Benzene-d6	5.721	84	161118	4.209	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.200%
36) 1,2-Dichloropropane-d6	6.682	67	52827	4.331	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.600%
41) Toluene-d8	7.894	98	136371	3.943	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.800%
43) trans-1,3-Dichloroprop...	8.174	79	17207	4.144	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.800%
46) 2-Hexanone-d5	8.627	63	77571	42.103	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	84.200%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	46326	4.268	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.400%
66) 1,2-Dichlorobenzene-d4	12.187	152	60227	4.571	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.400%
Target Compounds						Qvalue
5) Vinyl chloride	1.602	62	4851	0.337	ug/L	89
18) trans-1,2-Dichloroethene	3.354	96	1428	0.128	ug/L	90
22) cis-1,2-Dichloroethene	4.657	96	194709	15.553	ug/L	98
34) Trichloroethene	6.537	95	5440	0.435	ug/L	93
35) Methylcyclohexane	6.685	83	12568	0.766	ug/L #	24
37) 1,2-Dichloropropane	6.685	63	5308	0.416	ug/L #	89
42) Toluene	7.968	91	11319	0.225	ug/L	99
47) Tetrachloroethene	8.547	164	8418	0.813	ug/L	95
49) Dibromochloromethane	8.547	129	7703	0.715	ug/L #	10
52) Ethylbenzene	9.566	91	19400	0.387	ug/L	97
53) m,p-Xylene	9.688	106	21417	1.107	ug/L	92
54) o-Xylene	10.094	106	25001	1.351	ug/L	96
60) Isopropylbenzene	11.286	105	28922	0.606	ug/L	94
62) 1,3,5-Trimethylbenzene	11.084	105	26263	0.720	ug/L	96
63) 1,2,4-Trimethylbenzene	11.463	105	42687	1.211	ug/L	100
65) 1,4-Dichlorobenzene	11.830	146	13320	0.509	ug/L	99
67) 1,2-Dichlorobenzene	12.206	146	58810	2.392	ug/L	95
71) Naphthalene	14.084	128	35848	1.715	ug/L	96

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Quant Time: Jul 20 00:57:07 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

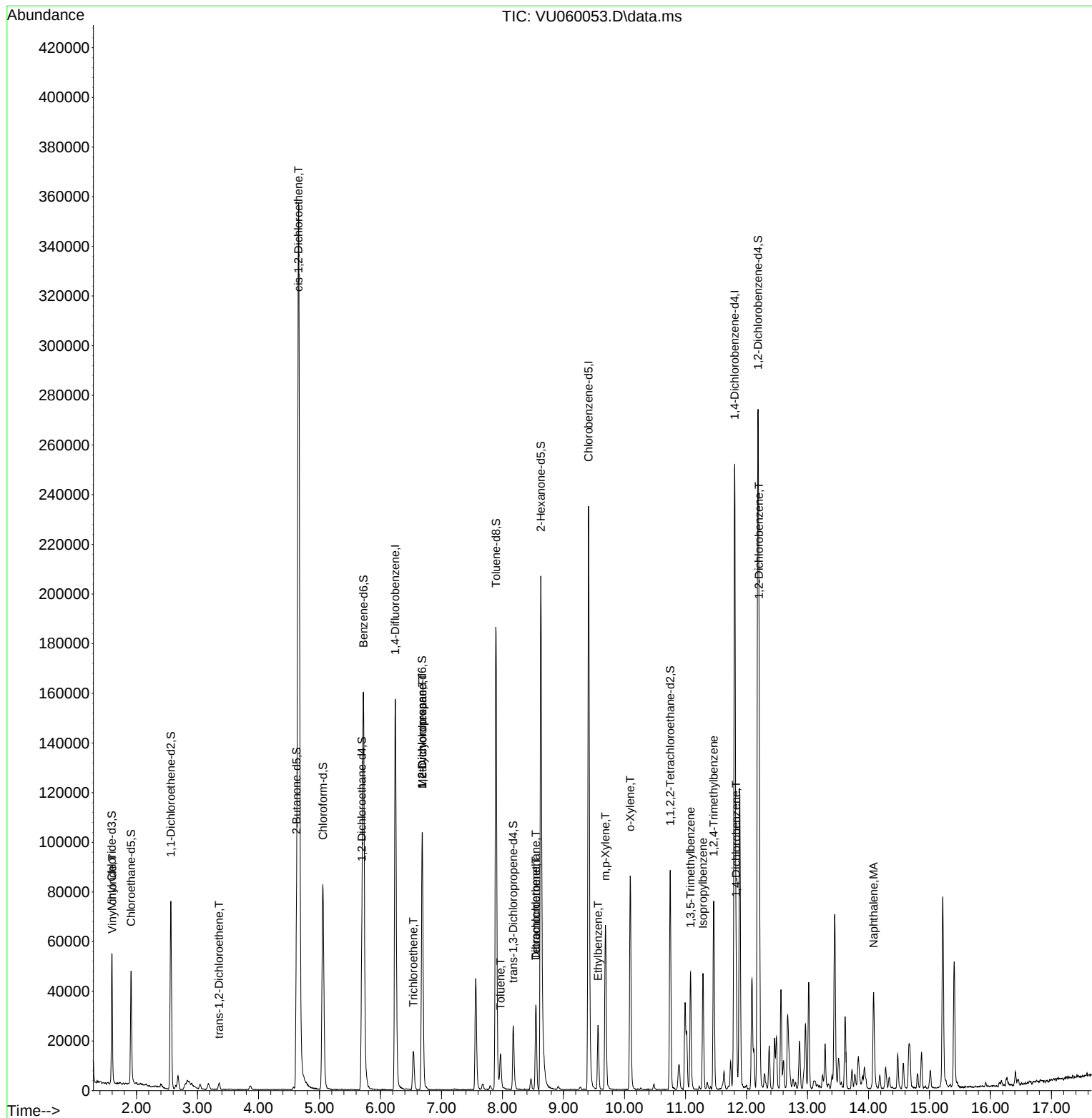
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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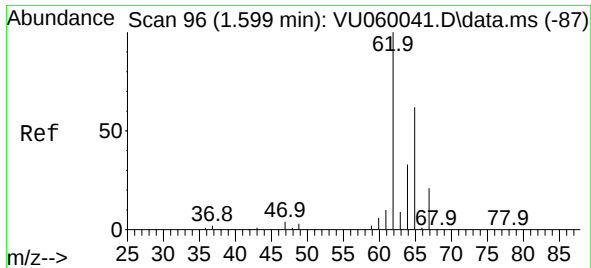
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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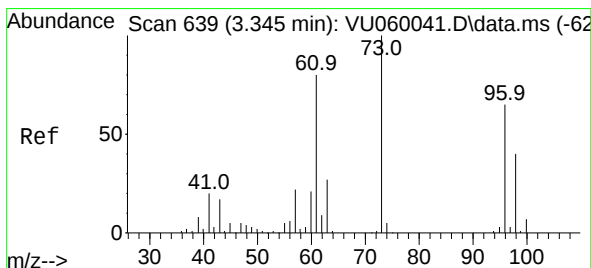
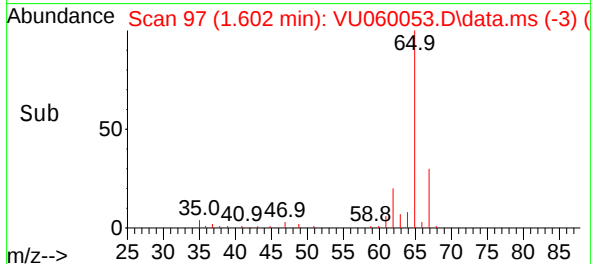
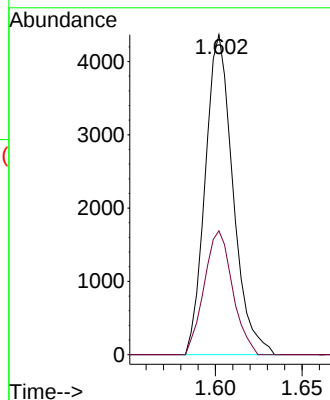
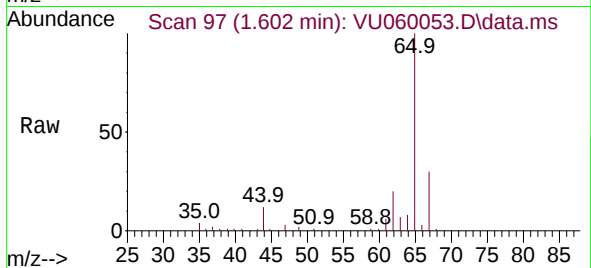




#5
 Vinyl chloride
 Concen: 0.337 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. 0.003 min
 Lab File: VU060053.D
 Acq: 19 Jul 2024 11:50

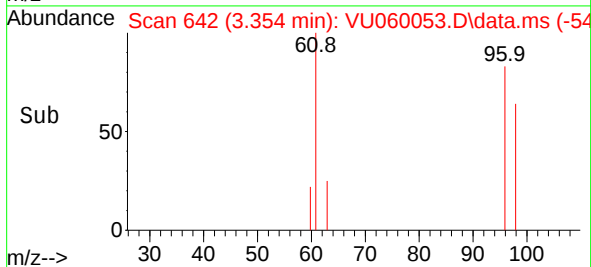
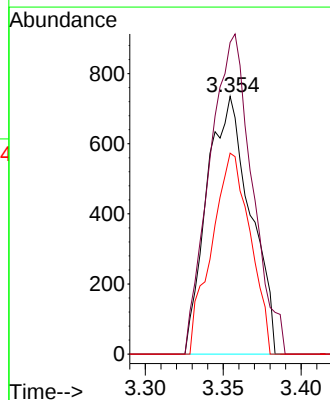
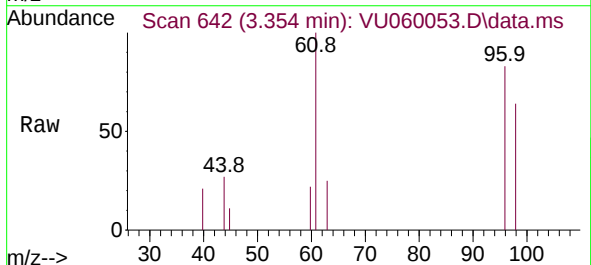
Instrument :
 MSVOA_U
 ClientSampleId :

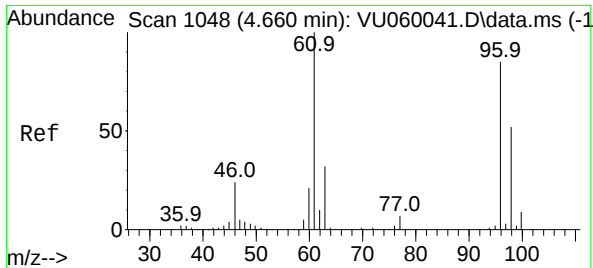
Tgt Ion: 62 Resp: 4851
 Ion Ratio Lower Upper
 62 100
 64 38.7 22.8 42.4



#18
 trans-1,2-Dichloroethene
 Concen: 0.128 ug/L
 RT: 3.354 min Scan# 642
 Delta R.T. 0.010 min
 Lab File: VU060053.D
 Acq: 19 Jul 2024 11:50

Tgt Ion: 96 Resp: 1428
 Ion Ratio Lower Upper
 96 100
 61 121.0 91.6 170.0
 98 78.0 47.7 88.5

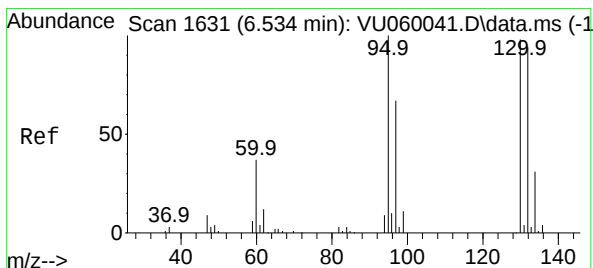
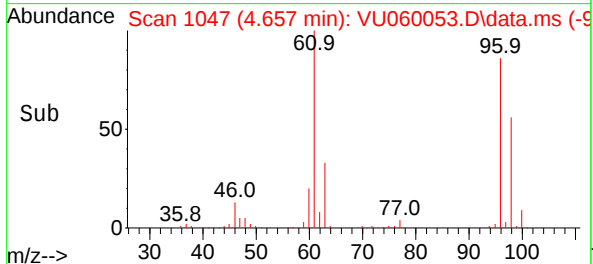
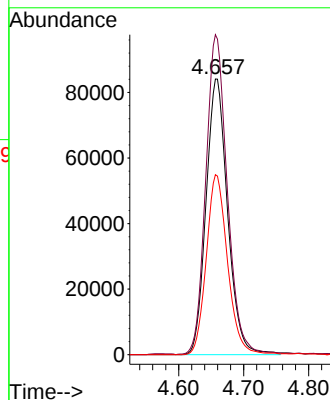
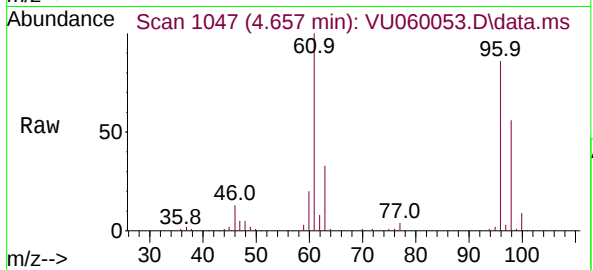




#22
cis-1,2-Dichloroethene
Concen: 15.553 ug/L
RT: 4.657 min Scan# 1047
Delta R.T. -0.003 min
Lab File: VU060053.D
Acq: 19 Jul 2024 11:50

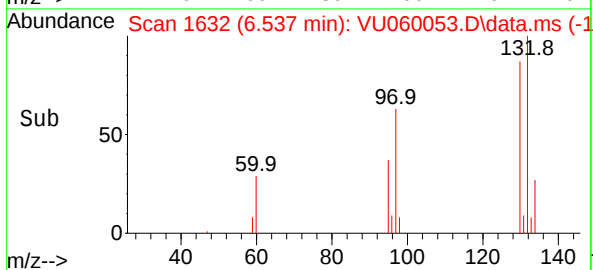
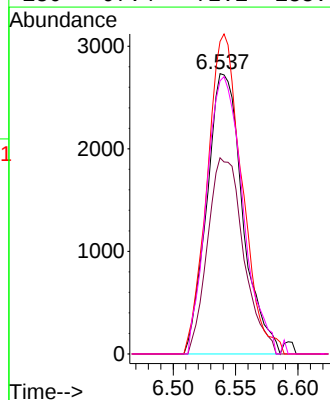
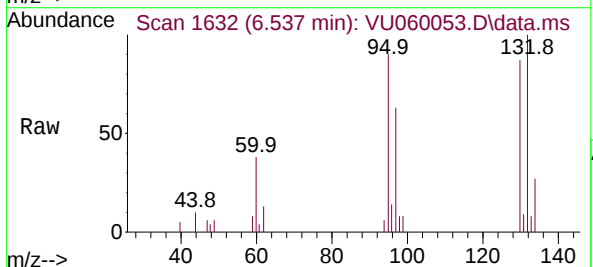
Instrument :
MSVOA_U
ClientSampleId :

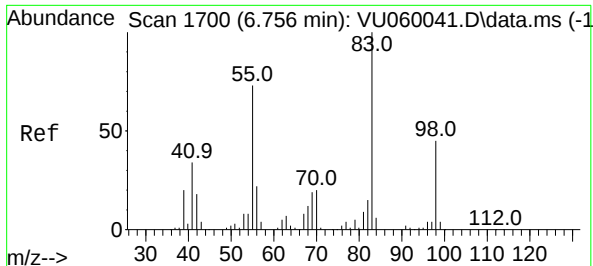
Tgt Ion: 96 Resp: 194709
Ion Ratio Lower Upper
96 100
61 116.1 80.2 148.9
98 65.3 44.7 83.1



#34
Trichloroethene
Concen: 0.435 ug/L
RT: 6.537 min Scan# 1632
Delta R.T. 0.003 min
Lab File: VU060053.D
Acq: 19 Jul 2024 11:50

Tgt Ion: 95 Resp: 5440
Ion Ratio Lower Upper
95 100
97 70.0 45.9 85.3
132 111.5 71.4 132.6
130 97.4 72.1 133.9





#35

Methylcyclohexane

Concen: 0.766 ug/L

RT: 6.685 min Scan# 1

Delta R.T. -0.071 min

Lab File: VU060053.D

Acq: 19 Jul 2024 11:50

Instrument :

MSVOA_U

ClientSampleId :

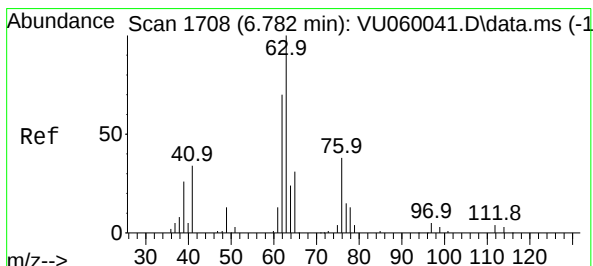
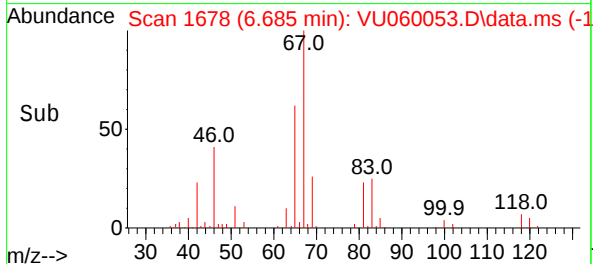
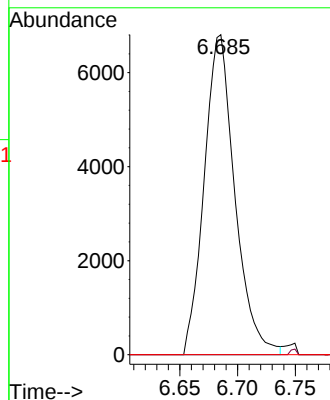
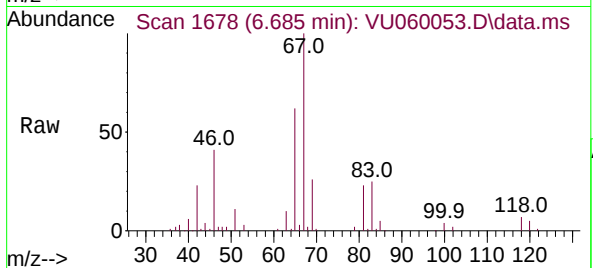
Tgt Ion: 83 Resp: 12568

Ion Ratio Lower Upper

83 100

55 0.3 56.7 85.1#

98 4.7 36.6 55.0#



#37

1,2-Dichloropropane

Concen: 0.416 ug/L

RT: 6.685 min Scan# 1678

Delta R.T. -0.097 min

Lab File: VU060053.D

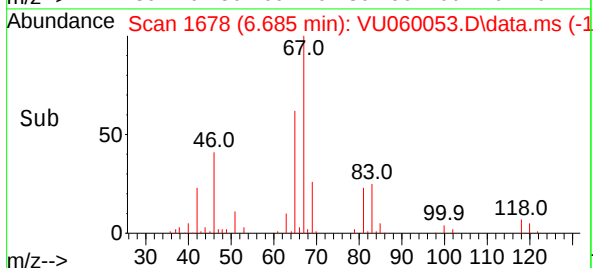
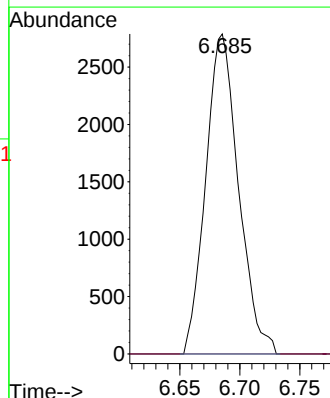
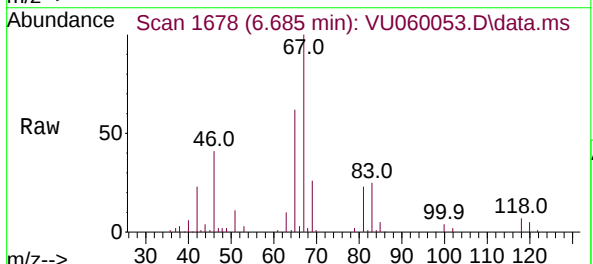
Acq: 19 Jul 2024 11:50

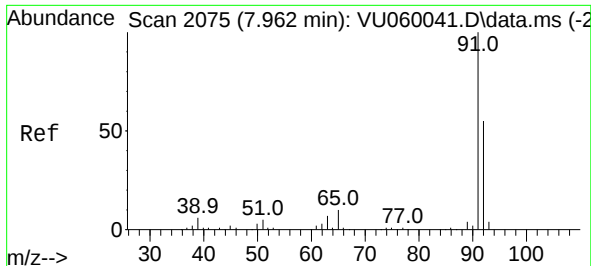
Tgt Ion: 63 Resp: 5308

Ion Ratio Lower Upper

63 100

112 0.4 3.3 4.9#





#42

Toluene

Concen: 0.225 ug/L

RT: 7.968 min Scan# 2075

Delta R.T. 0.006 min

Lab File: VU060053.D

Acq: 19 Jul 2024 11:50

Instrument :

MSVOA_U

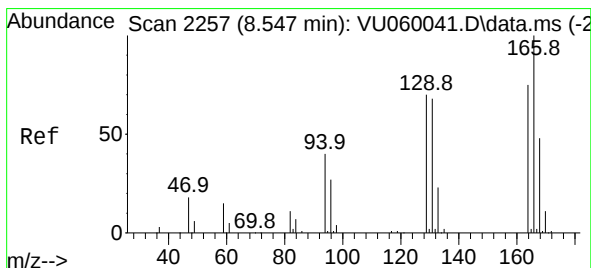
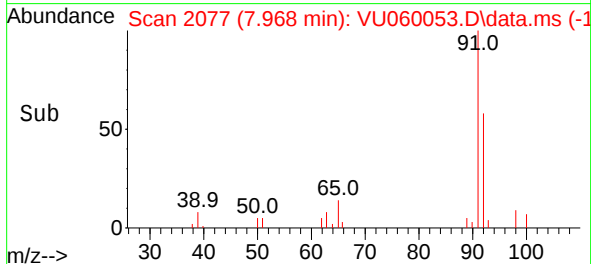
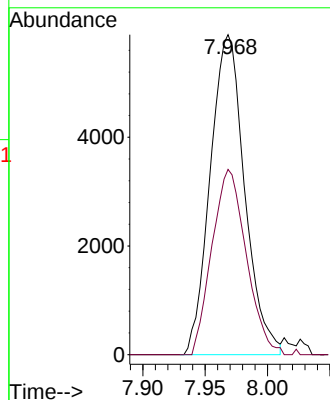
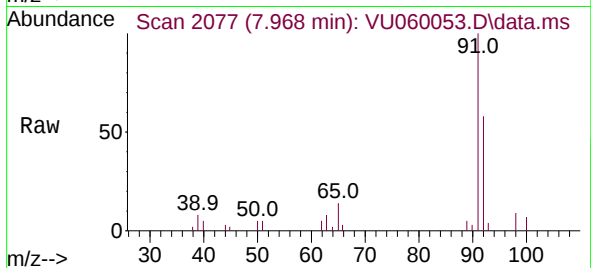
ClientSampleId :

Tgt Ion: 91 Resp: 11319

Ion Ratio Lower Upper

91 100

92 57.9 39.8 73.8



#47

Tetrachloroethene

Concen: 0.813 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.000 min

Lab File: VU060053.D

Acq: 19 Jul 2024 11:50

Tgt Ion: 164 Resp: 8418

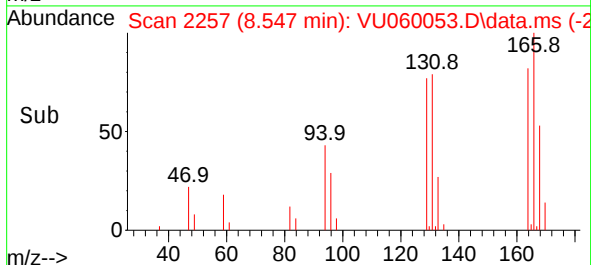
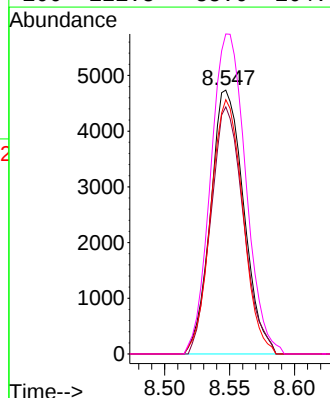
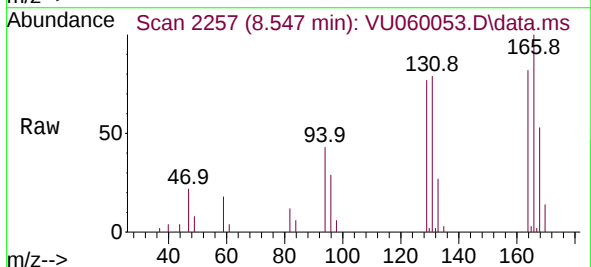
Ion Ratio Lower Upper

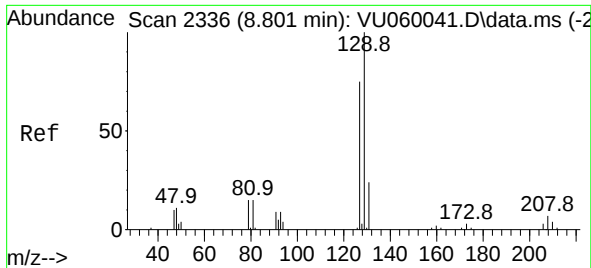
164 100

129 93.6 64.6 120.0

131 96.3 61.2 113.8

166 121.3 88.6 164.6





#49

Dibromochloromethane

Concen: 0.715 ug/L

RT: 8.547 min Scan# 21

Delta R.T. -0.254 min MSVOA_U

Lab File: VU060053.D

Acq: 19 Jul 2024 11:50

Instrument :

MSVOA_U

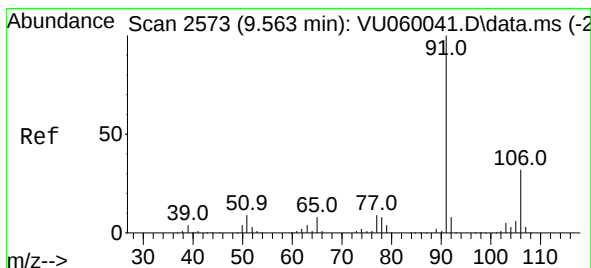
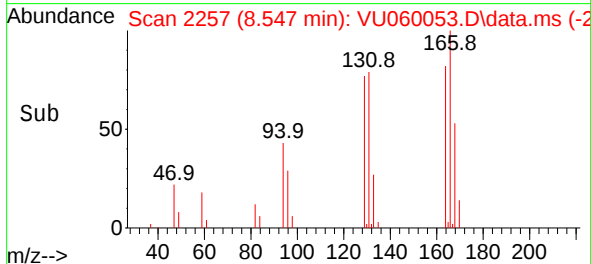
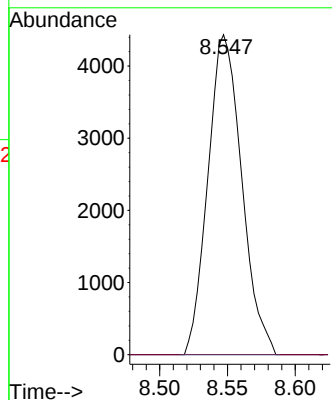
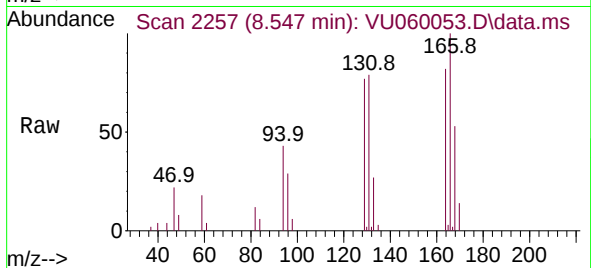
ClientSampleId :

Tgt Ion:129 Resp: 7703

Ion Ratio Lower Upper

129 100

127 0.0 54.6 101.4#



#52

Ethylbenzene

Concen: 0.387 ug/L

RT: 9.566 min Scan# 2574

Delta R.T. 0.003 min

Lab File: VU060053.D

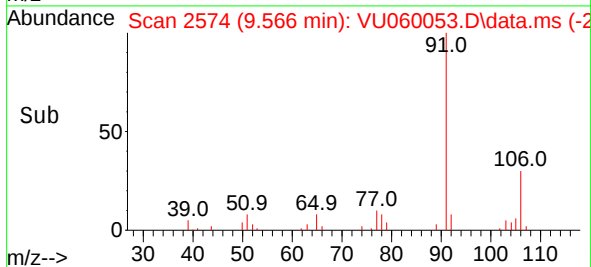
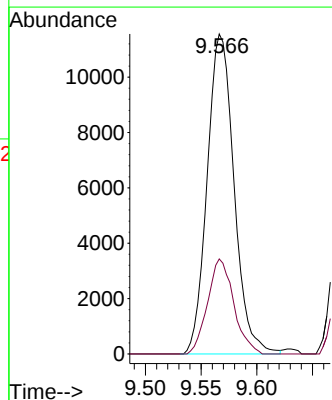
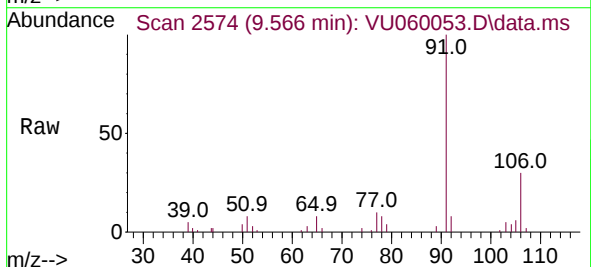
Acq: 19 Jul 2024 11:50

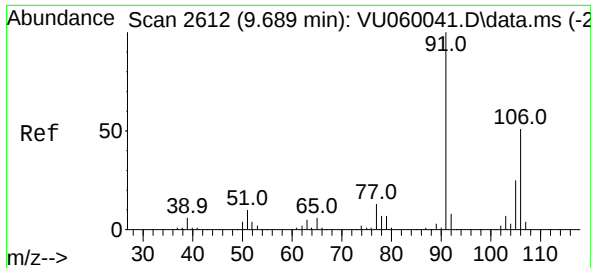
Tgt Ion: 91 Resp: 19400

Ion Ratio Lower Upper

91 100

106 29.7 21.9 40.7

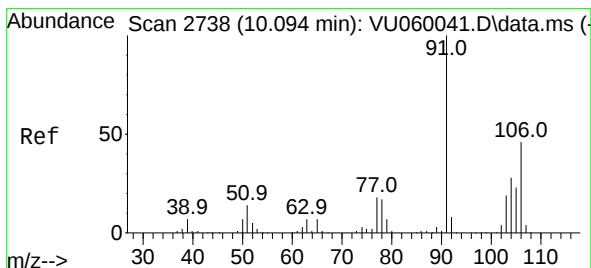
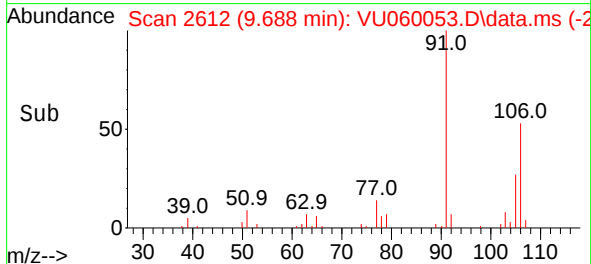
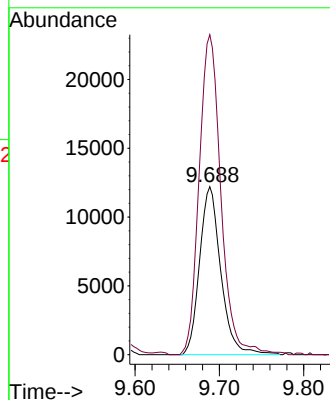
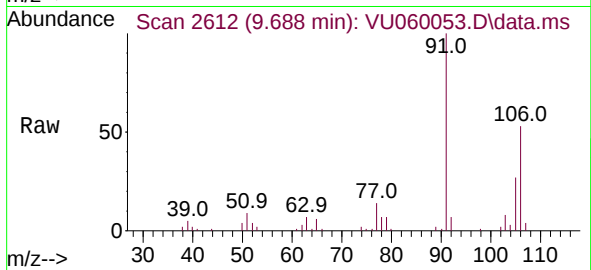




#53
m,p-Xylene
Concen: 1.107 ug/L
RT: 9.688 min Scan# 2612
Delta R.T. -0.000 min
Lab File: VU060053.D
Acq: 19 Jul 2024 11:50

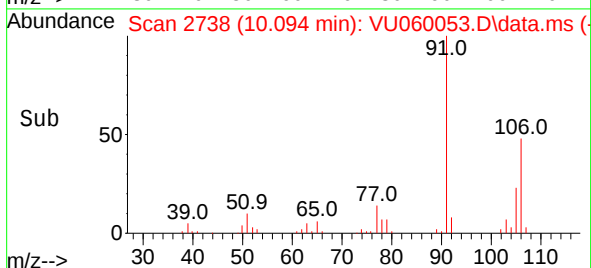
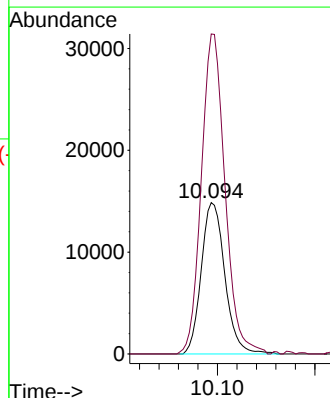
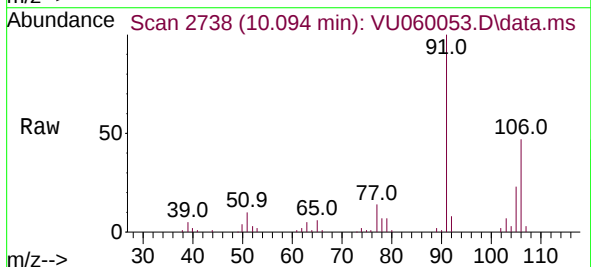
Instrument :
MSVOA_U
ClientSampleId :

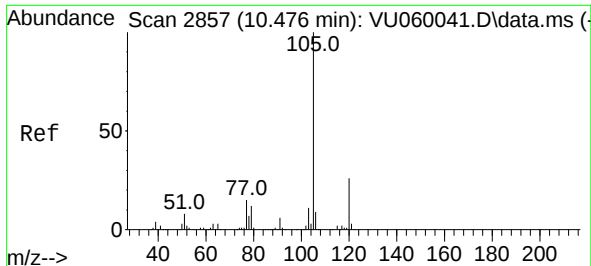
Tgt Ion:106 Resp: 21417
Ion Ratio Lower Upper
106 100
91 190.5 141.3 262.5



#54
o-Xylene
Concen: 1.351 ug/L
RT: 10.094 min Scan# 2738
Delta R.T. -0.000 min
Lab File: VU060053.D
Acq: 19 Jul 2024 11:50

Tgt Ion:106 Resp: 25001
Ion Ratio Lower Upper
106 100
91 211.3 143.6 266.6





#60

Isopropylbenzene

Concen: 0.606 ug/L

RT: 11.286 min Scan# 3109

Delta R.T. 0.810 min

Lab File: VU060053.D

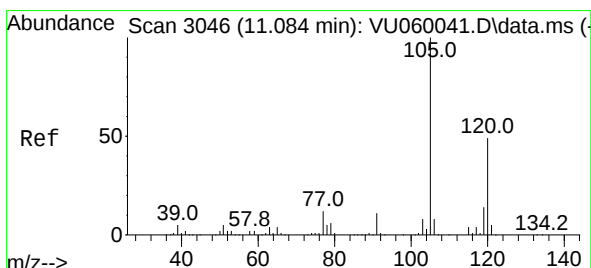
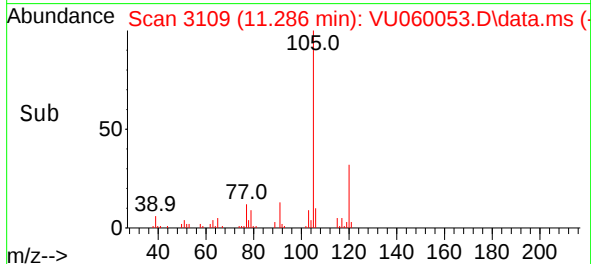
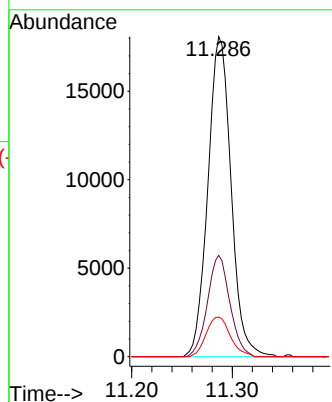
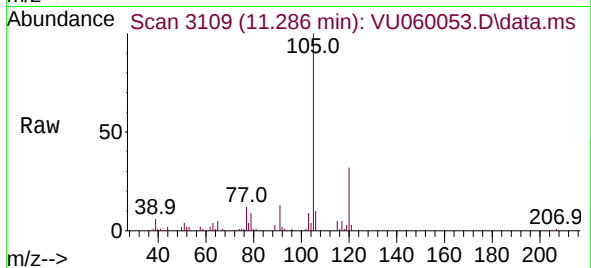
Acq: 19 Jul 2024 11:50

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:105	Resp:	28922
Ion Ratio	Lower	Upper
105	100	
120	30.6	21.9 32.9
77	12.9	12.1 18.1



#62

1,3,5-Trimethylbenzene

Concen: 0.720 ug/L

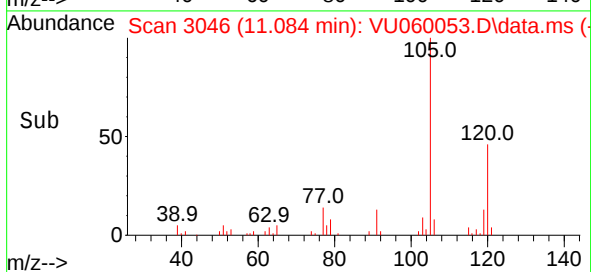
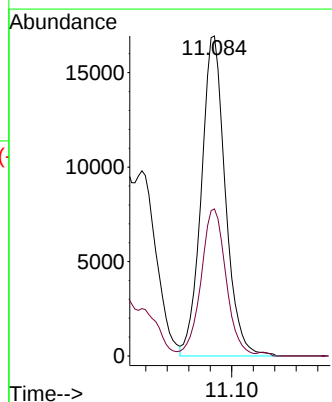
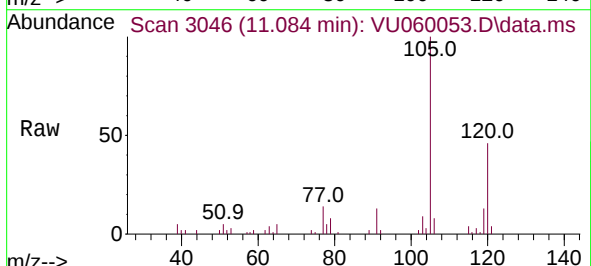
RT: 11.084 min Scan# 3046

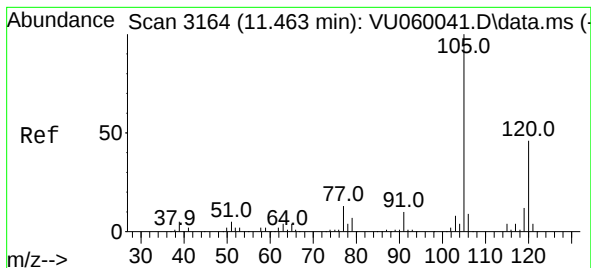
Delta R.T. -0.000 min

Lab File: VU060053.D

Acq: 19 Jul 2024 11:50

Tgt Ion:105	Resp:	26263
Ion Ratio	Lower	Upper
105	100	
120	46.3	39.4 59.2





#63

1,2,4-Trimethylbenzene

Concen: 1.211 ug/L

RT: 11.463 min Scan# 3164

Delta R.T. -0.000 min

Lab File: VU060053.D

Acq: 19 Jul 2024 11:50

Instrument :

MSVOA_U

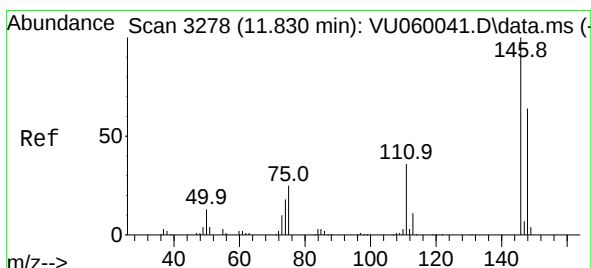
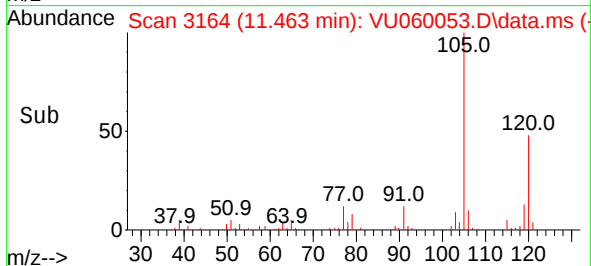
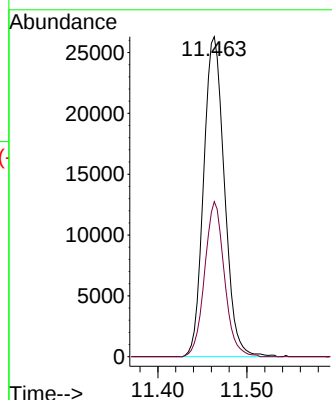
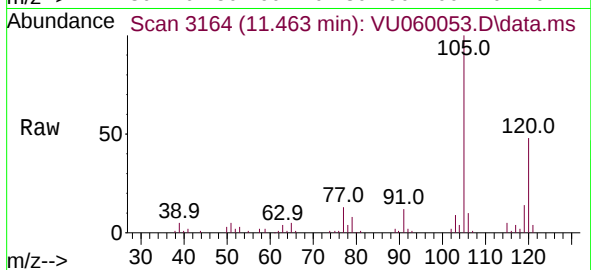
ClientSampleId :

Tgt Ion:105 Resp: 42687

Ion Ratio Lower Upper

105 100

120 46.1 36.7 55.1



#65

1,4-Dichlorobenzene

Concen: 0.509 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. -0.000 min

Lab File: VU060053.D

Acq: 19 Jul 2024 11:50

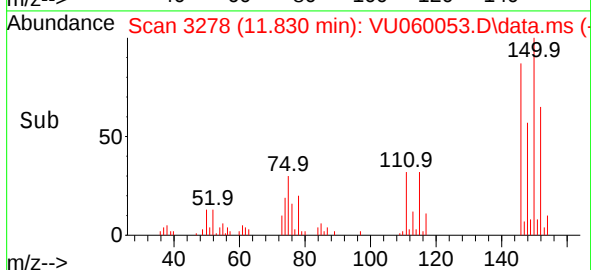
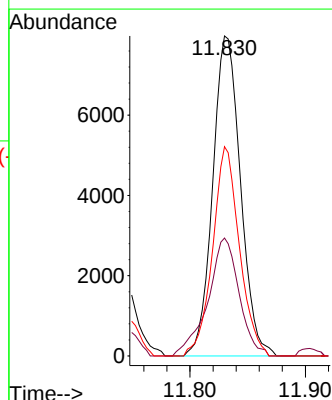
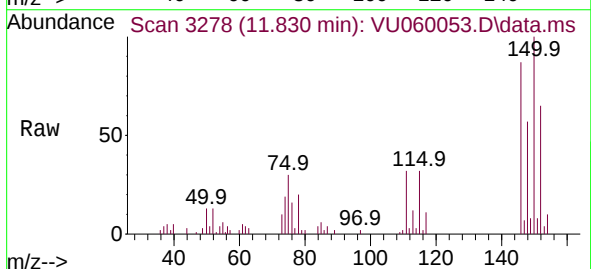
Tgt Ion:146 Resp: 13320

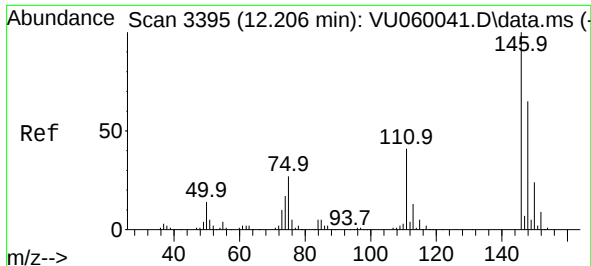
Ion Ratio Lower Upper

146 100

111 36.9 26.5 49.1

148 65.4 45.3 84.1





#67

1,2-Dichlorobenzene

Concen: 2.392 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. -0.000 min

Lab File: VU060053.D

Acq: 19 Jul 2024 11:50

Instrument :

MSVOA_U

ClientSampleId :

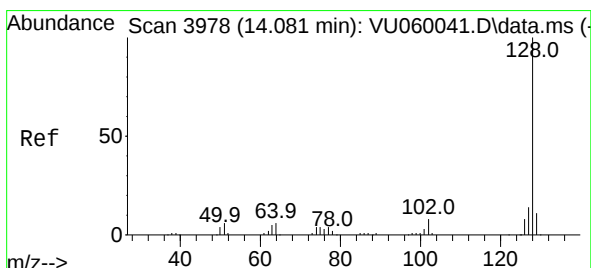
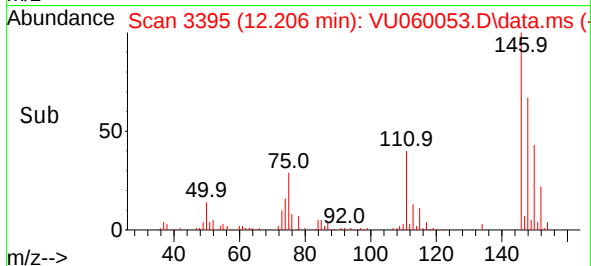
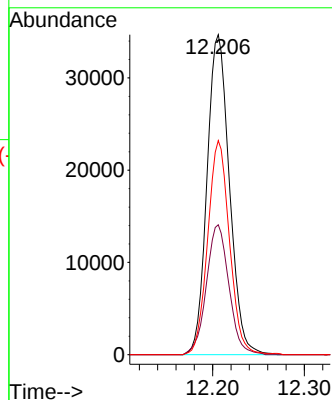
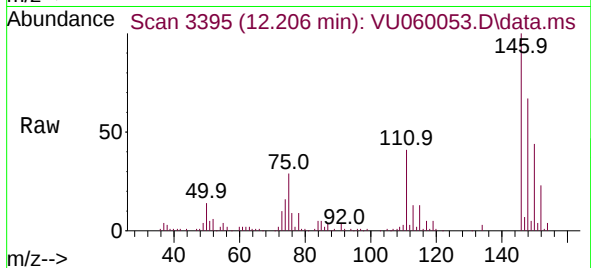
Tgt Ion:146 Resp: 58810

Ion Ratio Lower Upper

146 100

111 40.6 30.9 46.3

148 66.9 49.8 74.8



#71

Naphthalene

Concen: 1.715 ug/L

RT: 14.084 min Scan# 3979

Delta R.T. 0.003 min

Lab File: VU060053.D

Acq: 19 Jul 2024 11:50

Tgt Ion:128 Resp: 35848

Ion Ratio Lower Upper

128 100

129 11.9 8.2 12.4

127 12.0 10.6 16.0

