

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU101024\
 Data File : VU061100.D
 Acq On : 10 Oct 2024 19:38
 Operator : MD/SY
 Sample : P4380-16
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 11 06:52:23 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR100124WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Oct 11 06:46:55 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	170263	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	158258	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	79077	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	39696	3.261	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	65.200%
7) Chloroethane-d5	1.907	69	35231	3.867	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	77.400%
11) 1,1-Dichloroethene-d2	2.557	65	18586	3.461	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.200%
20) 2-Butanone-d5	4.666	46	97043	33.281	ug/L	0.05
Spiked Amount	50.000	Range	40 - 130	Recovery	=	66.560%
24) Chloroform-d	5.052	84	85853	4.002	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.000%
26) 1,2-Dichloroethane-d4	5.695	65	44837	3.943	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.800%
32) Benzene-d6	5.718	84	168635	4.041	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.800%
36) 1,2-Dichloropropane-d6	6.682	67	58610	4.277	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	85.600%
41) Toluene-d8	7.888	98	153848	3.944	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.800%
43) trans-1,3-Dichloroprop...	8.174	79	21686	3.701	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	74.000%
46) 2-Hexanone-d5	8.631	63	103173	42.541	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	85.080%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	42470	4.226	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	84.600%
66) 1,2-Dichlorobenzene-d4	12.184	152	54353	4.299	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.515	50	1617	0.135	ug/L #	79
8) Chloroethane	1.891	64	58749	8.050	ug/L #	52
13) Acetone	2.689	43	28520	15.208	ug/L	99
14) Carbon disulfide	2.779	76	8519	0.255	ug/L #	92
15) Methyl Acetate	2.956	43	1317	0.288	ug/L #	52
19) 1,1-Dichloroethane	3.856	63	13418	0.640	ug/L	96
22) cis-1,2-Dichloroethene	4.660	96	9969	0.831	ug/L	95
27) 1,2-Dichloroethane	5.759	62	2080	0.150	ug/L #	72
30) Cyclohexane	5.374	56	2611	0.128	ug/L	97
33) Benzene	5.763	78	255982	5.487	ug/L	100
34) Trichloroethene	6.534	95	4817	0.381	ug/L	94
35) Methylcyclohexane	6.753	83	3690	0.181	ug/L #	88
37) 1,2-Dichloropropane	6.682	63	6103	0.496	ug/L #	93
42) Toluene	7.962	91	88562	1.782	ug/L	100
47) Tetrachloroethene	8.544	164	20629	2.506	ug/L	97
49) Dibromochloromethane	8.544	129	20914	2.206	ug/L #	9
51) Chlorobenzene	9.441	112	8962	0.296	ug/L	90
52) Ethylbenzene	9.563	91	28198	0.501	ug/L	97
53) m,p-Xylene	9.685	106	35471	1.726	ug/L	90

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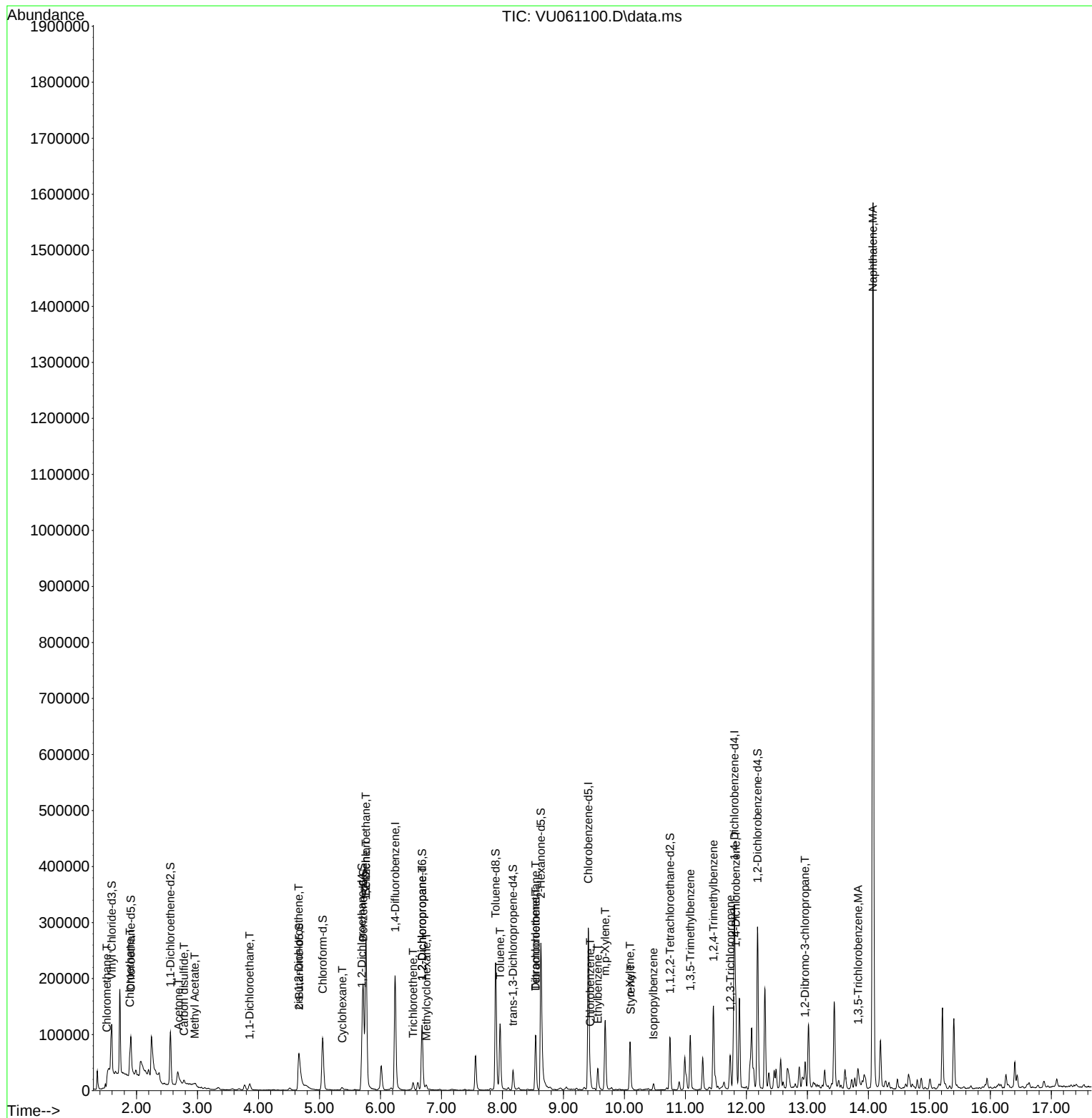
54) o-Xylene	10.094	106	22771	1.126	ug/L	91
55) Styrene	10.103	104	2754	0.084	ug/L #	1
60) Isopropylbenzene	10.476	105	7566	0.143	ug/L	96
61) 1,2,3-Trichloropropane	11.737	75	1028	0.132	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.081	105	52782	1.132	ug/L	99
63) 1,2,4-Trimethylbenzene	11.460	105	84890	1.804	ug/L	97
65) 1,4-Dichlorobenzene	11.827	146	51937	2.318	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.962	75	175	0.103	ug/L #	1
69) 1,3,5-Trichlorobenzene	13.833	180	2533	0.159	ug/L #	78
71) Naphthalene	14.077	128	1208061	60.458	ug/L	99

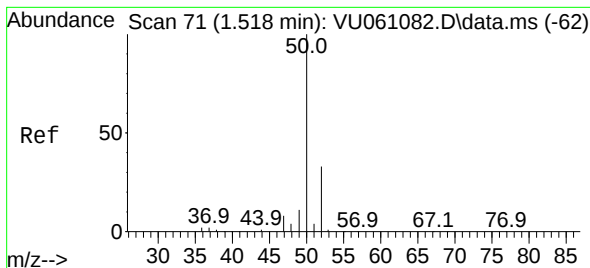
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.135 ug/L

RT: 1.515 min Scan# 71

Delta R.T. -0.003 min

Lab File: VU061100.D

Acq: 10 Oct 2024 19:38

Instrument :

MSVOA_U

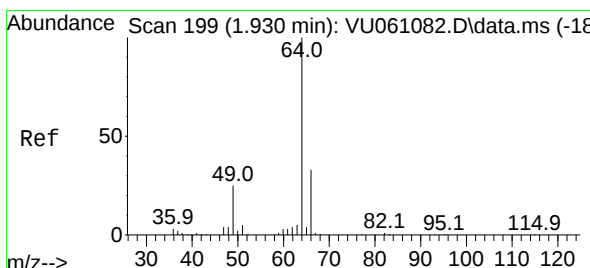
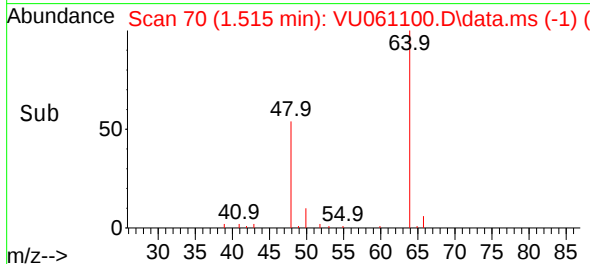
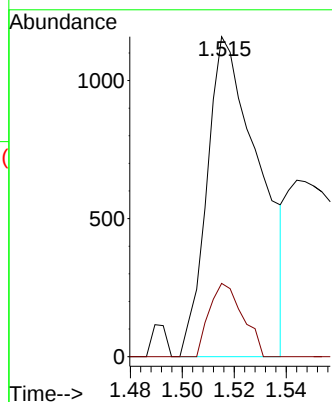
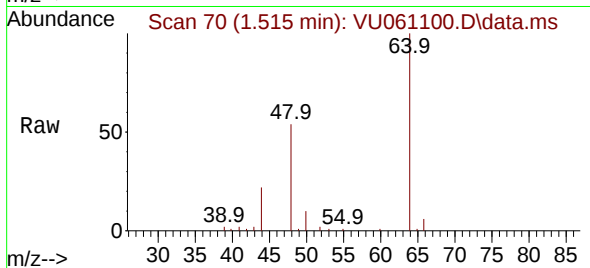
ClientSampleId :

Tgt Ion: 50 Resp: 1617

Ion Ratio Lower Upper

50 100

52 22.9 24.4 45.4#



#8

Chloroethane

Concen: 8.050 ug/L

RT: 1.891 min Scan# 187

Delta R.T. -0.038 min

Lab File: VU061100.D

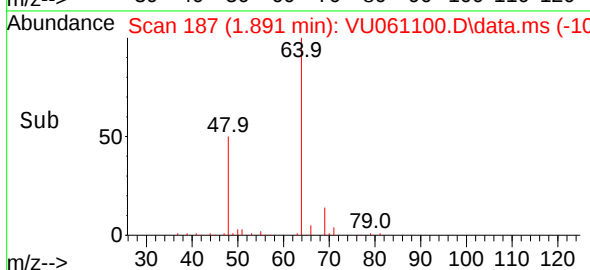
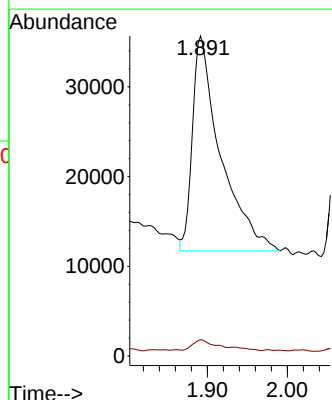
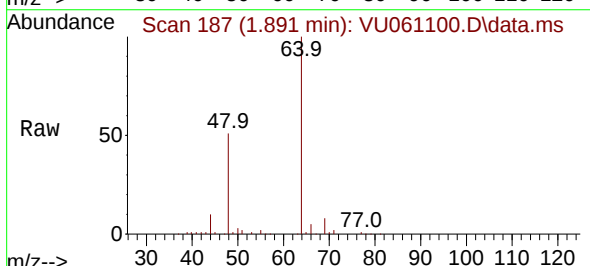
Acq: 10 Oct 2024 19:38

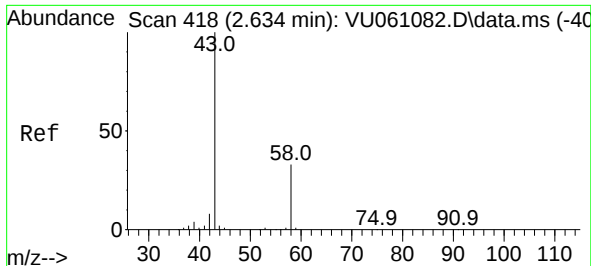
Tgt Ion: 64 Resp: 58749

Ion Ratio Lower Upper

64 100

66 5.1 22.3 41.3#





#13

Acetone

Concen: 15.208 ug/L

RT: 2.689 min Scan# 418

Delta R.T. 0.055 min

Lab File: VU061100.D

Acq: 10 Oct 2024 19:38

Instrument :

MSVOA_U

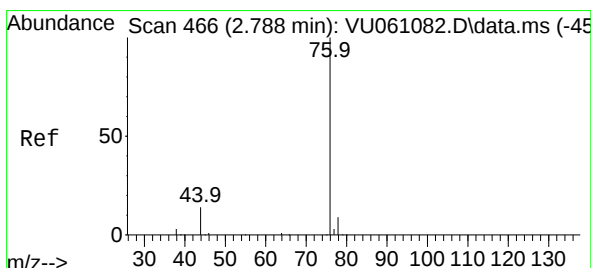
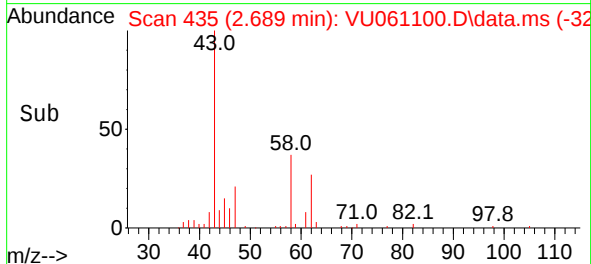
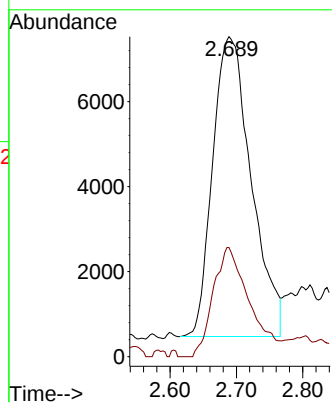
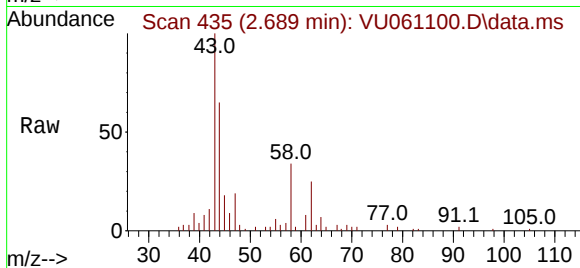
ClientSampleId :

Tgt Ion: 43 Resp: 28520

Ion Ratio Lower Upper

43 100

58 34.1 0.0 69.6



#14

Carbon disulfide

Concen: 0.255 ug/L

RT: 2.779 min Scan# 463

Delta R.T. -0.010 min

Lab File: VU061100.D

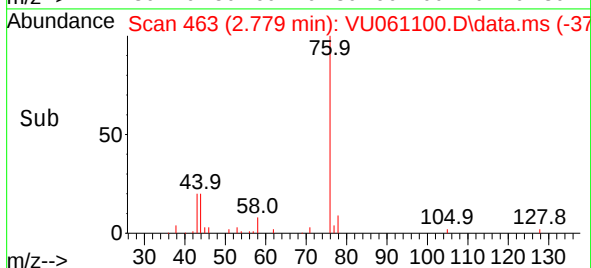
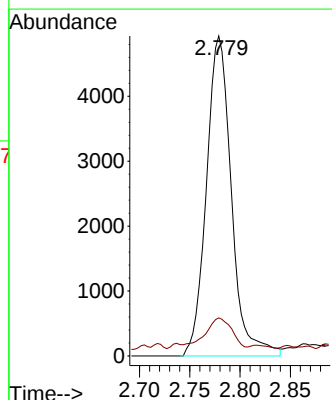
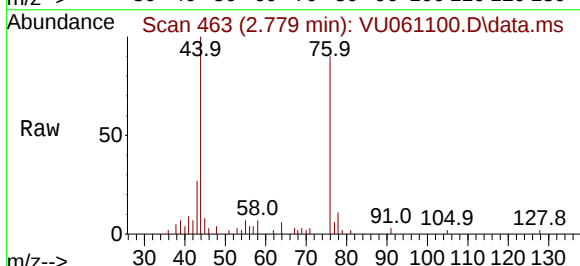
Acq: 10 Oct 2024 19:38

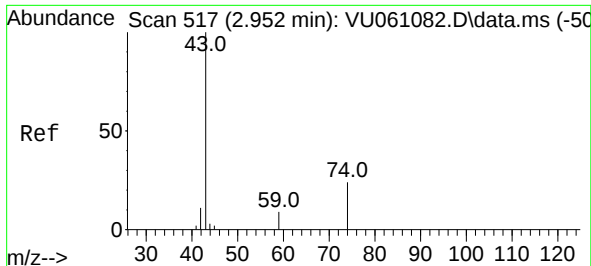
Tgt Ion: 76 Resp: 8519

Ion Ratio Lower Upper

76 100

78 11.9 7.1 10.7#





#15

Methyl Acetate

Concen: 0.288 ug/L

RT: 2.956 min Scan# 517

Delta R.T. 0.003 min

Lab File: VU061100.D

Acq: 10 Oct 2024 19:38

Instrument :

MSVOA_U

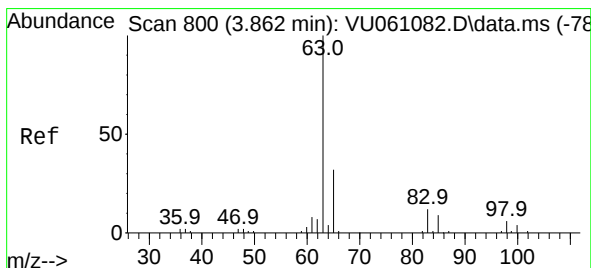
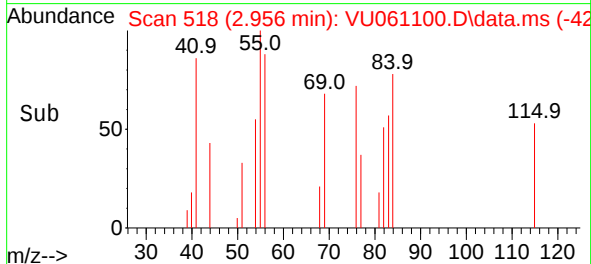
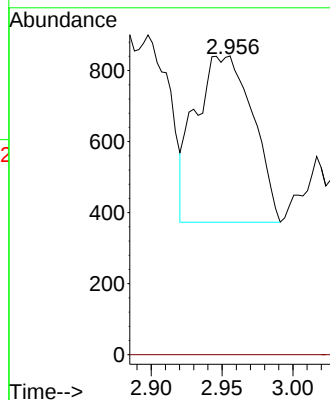
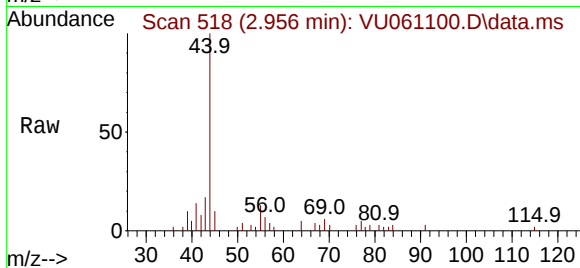
ClientSampleId :

Tgt Ion: 43 Resp: 1317

Ion Ratio Lower Upper

43 100

74 0.0 18.9 28.3#



#19

1,1-Dichloroethane

Concen: 0.640 ug/L

RT: 3.856 min Scan# 798

Delta R.T. -0.006 min

Lab File: VU061100.D

Acq: 10 Oct 2024 19:38

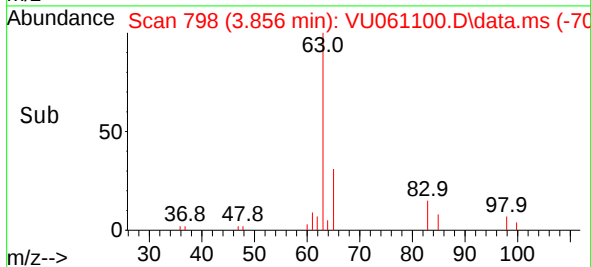
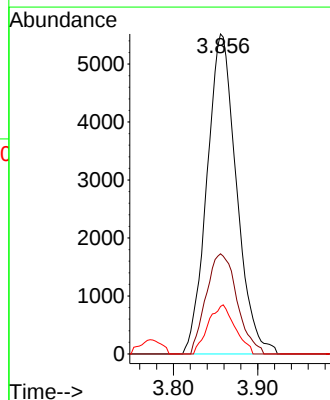
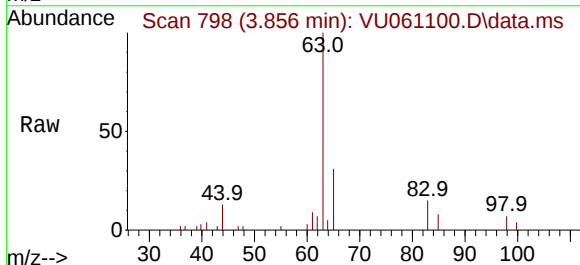
Tgt Ion: 63 Resp: 13418

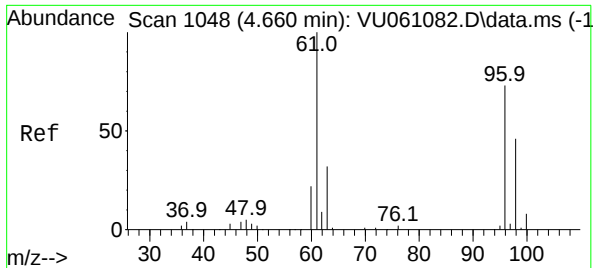
Ion Ratio Lower Upper

63 100

65 31.3 23.0 42.8

83 14.8 9.0 16.6





#22

cis-1,2-Dichloroethene

Concen: 0.831 ug/L

RT: 4.660 min Scan# 1048

Delta R.T. 0.000 min

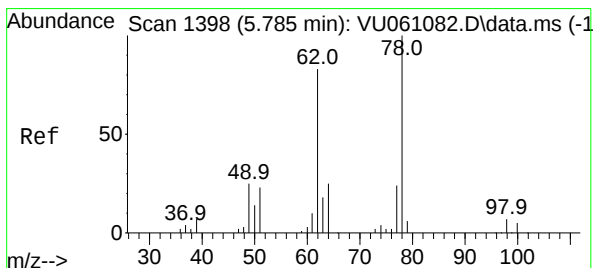
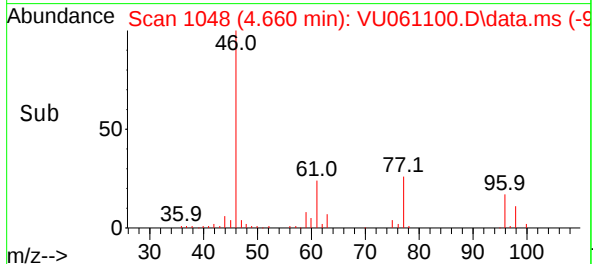
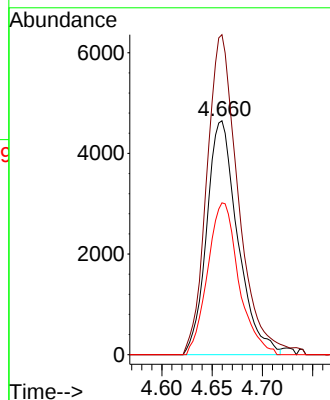
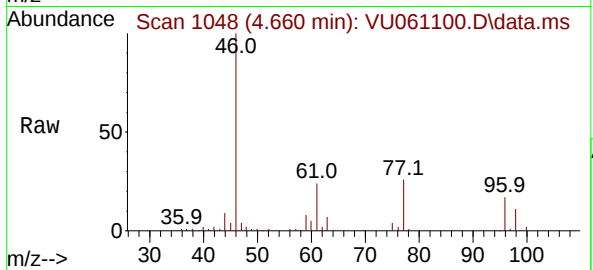
Lab File: VU061100.D

Acq: 10 Oct 2024 19:38

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 96 Resp: 9969

Ion	Ratio	Lower	Upper
96	100		
61	136.8	89.7	166.5
98	64.9	45.1	83.9



#27

1,2-Dichloroethane

Concen: 0.150 ug/L

RT: 5.759 min Scan# 1390

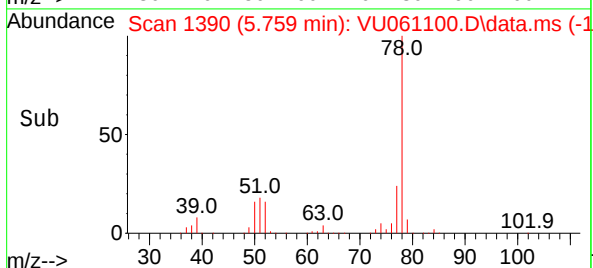
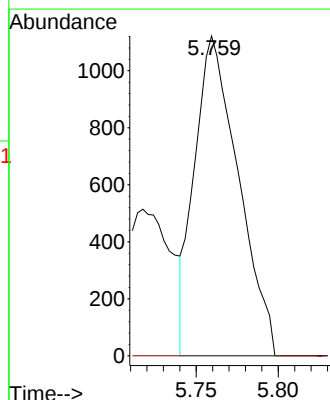
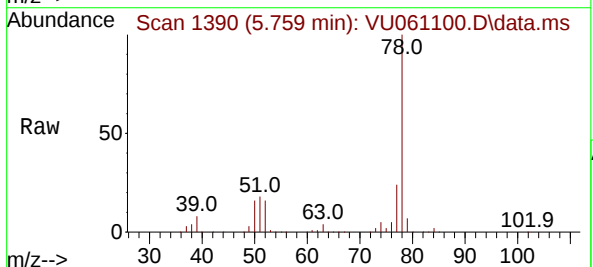
Delta R.T. -0.026 min

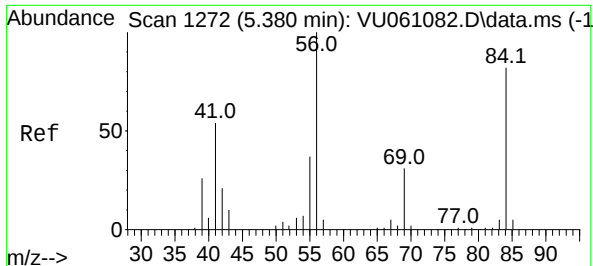
Lab File: VU061100.D

Acq: 10 Oct 2024 19:38

Tgt Ion: 62 Resp: 2080

Ion	Ratio	Lower	Upper
62	100		
98	0.0	8.2	12.4#





#30

Cyclohexane

Concen: 0.128 ug/L

RT: 5.374 min Scan# 1272

Delta R.T. -0.006 min

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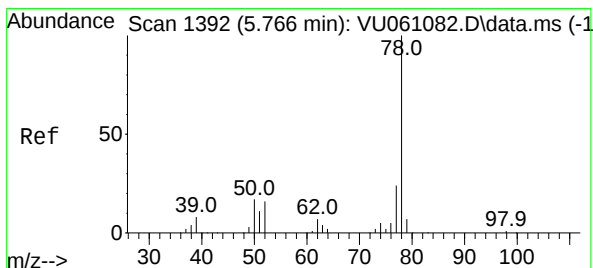
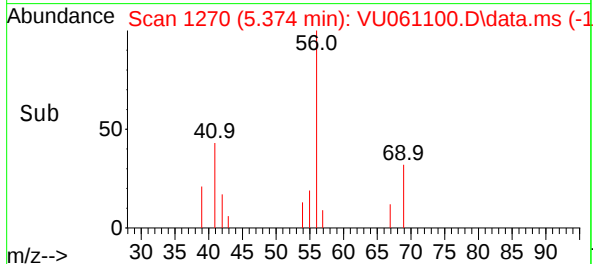
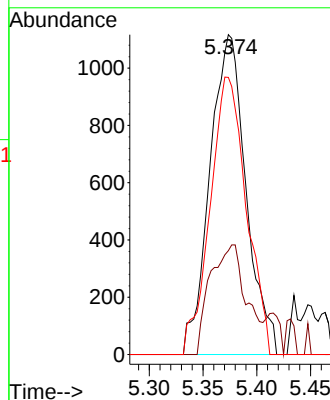
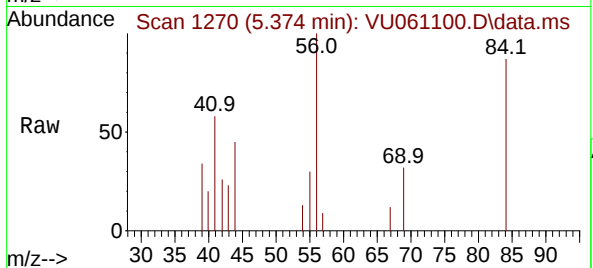
Tgt Ion: 56 Resp: 2611

Ion Ratio Lower Upper

56 100

69 34.5 25.4 38.0

84 86.9 71.0 106.6



#33

Benzene

Concen: 5.487 ug/L

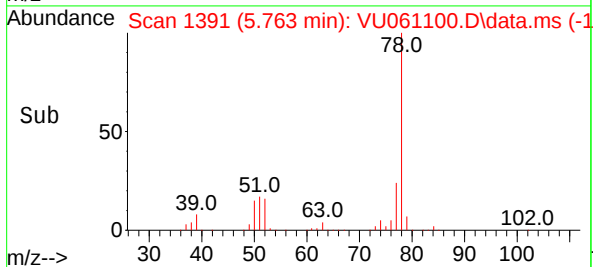
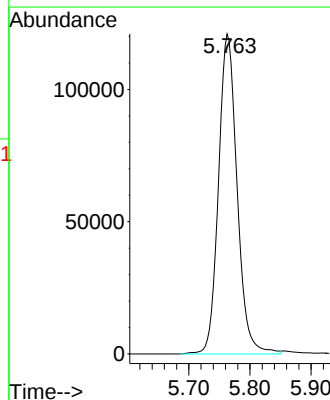
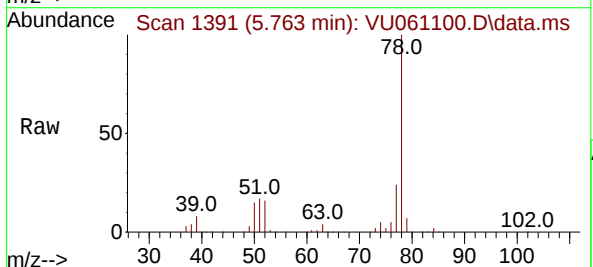
RT: 5.763 min Scan# 1391

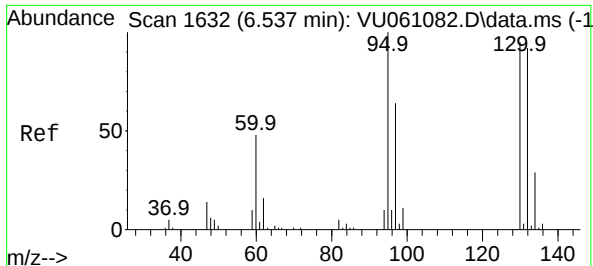
Delta R.T. -0.003 min

Lab File: VU061100.D

Acq: 10 Oct 2024 19:38

Tgt Ion: 78 Resp: 255982





#34

Trichloroethene

Concen: 0.381 ug/L

RT: 6.534 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU061100.D

Acq: 10 Oct 2024 19:38

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 4817

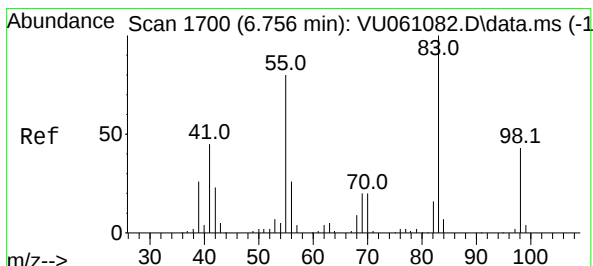
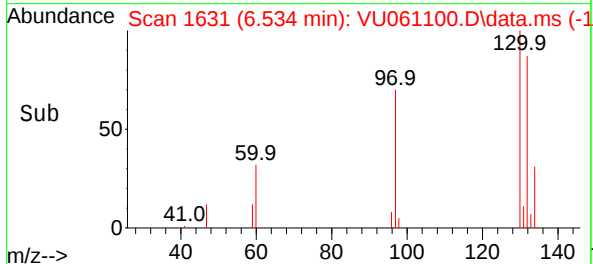
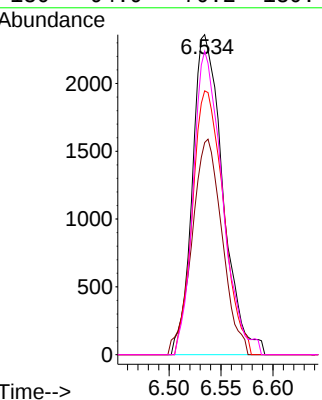
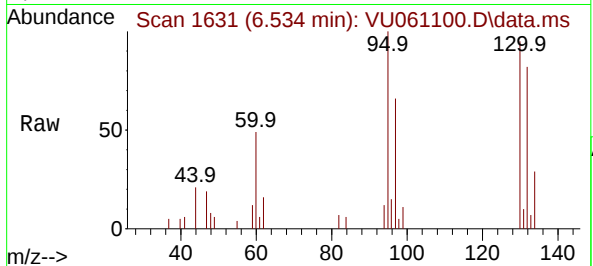
Ion Ratio Lower Upper

95 100

97 66.3 44.9 83.5

132 82.5 63.5 117.9

130 94.9 70.2 130.4



#35

Methylcyclohexane

Concen: 0.181 ug/L

RT: 6.753 min Scan# 1699

Delta R.T. -0.003 min

Lab File: VU061100.D

Acq: 10 Oct 2024 19:38

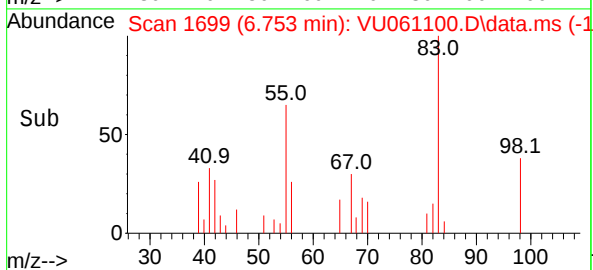
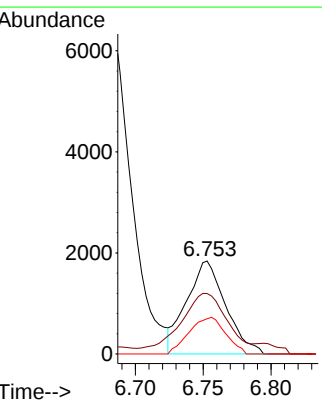
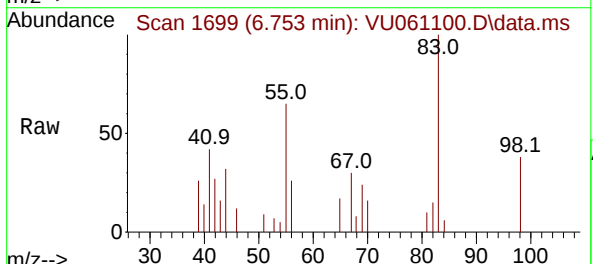
Tgt Ion: 83 Resp: 3690

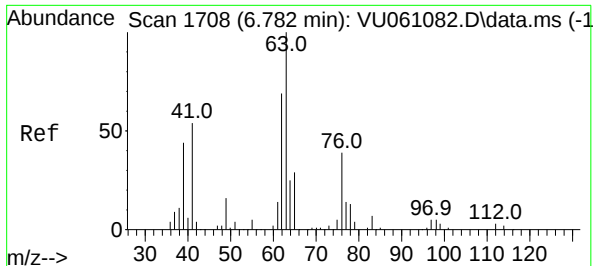
Ion Ratio Lower Upper

83 100

55 69.2 62.6 94.0

98 36.7 37.6 56.4#

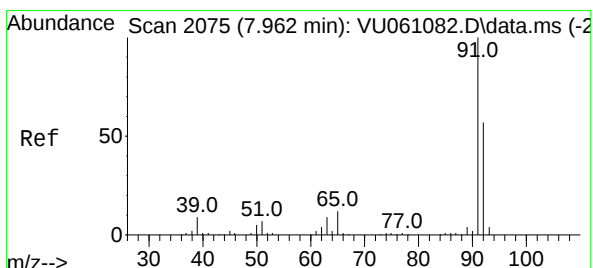
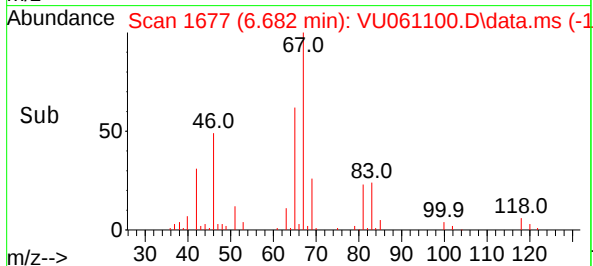
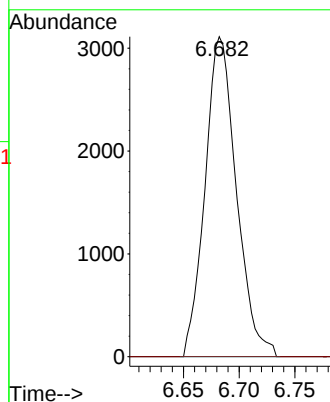
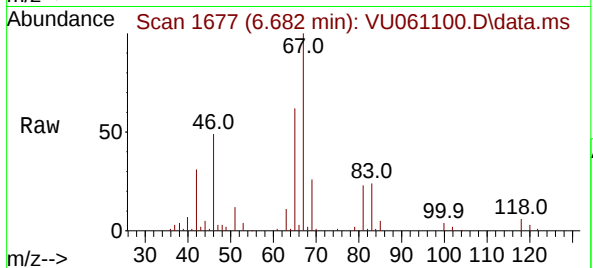




#37
1,2-Dichloropropane
Concen: 0.496 ug/L
RT: 6.682 min Scan# 1
Delta R.T. -0.100 min
Lab File: VU061100.D
Acq: 10 Oct 2024 19:38

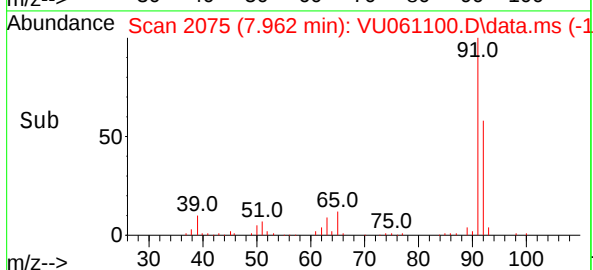
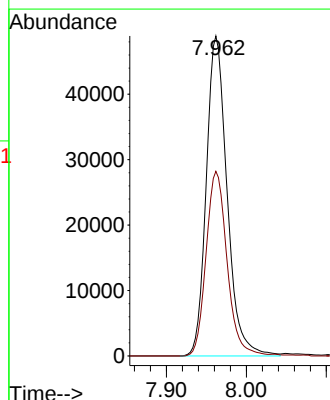
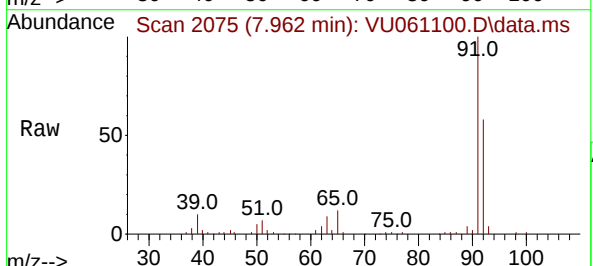
Instrument :
MSVOA_U
ClientSampleId :

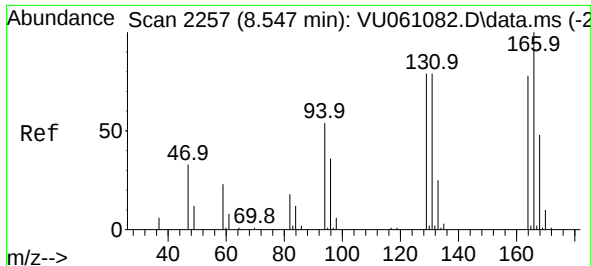
Tgt Ion: 63 Resp: 6103
Ion Ratio Lower Upper
63 100
112 0.0 2.0 3.0#



#42
Toluene
Concen: 1.782 ug/L
RT: 7.962 min Scan# 2075
Delta R.T. 0.000 min
Lab File: VU061100.D
Acq: 10 Oct 2024 19:38

Tgt Ion: 91 Resp: 88562
Ion Ratio Lower Upper
91 100
92 57.7 40.5 75.3





#47

Tetrachloroethene

Concen: 2.506 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. -0.003 min

Lab File: VU061100.D

Acq: 10 Oct 2024 19:38

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:164 Resp: 20629

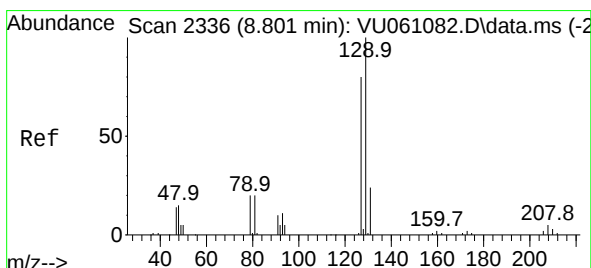
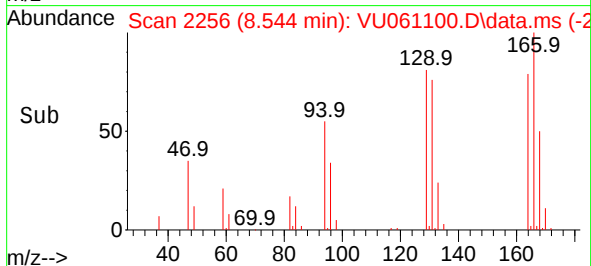
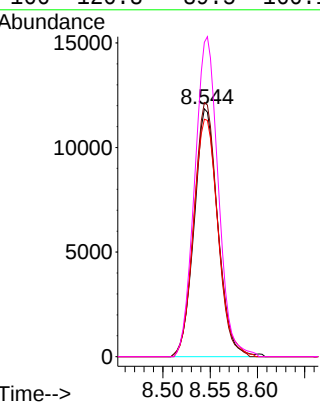
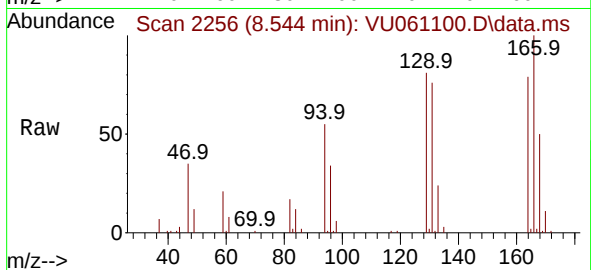
Ion Ratio Lower Upper

164 100

129 102.5 67.3 124.9

131 95.8 65.4 121.4

166 126.8 89.5 166.1



#49

Dibromochloromethane

Concen: 2.206 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. -0.257 min

Lab File: VU061100.D

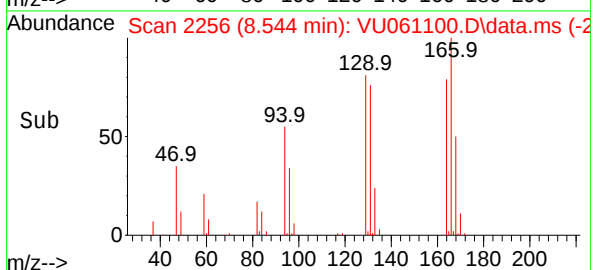
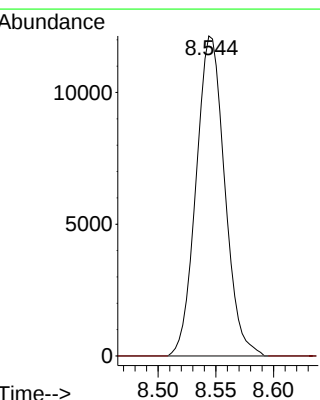
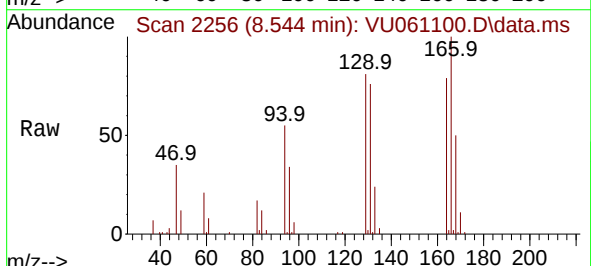
Acq: 10 Oct 2024 19:38

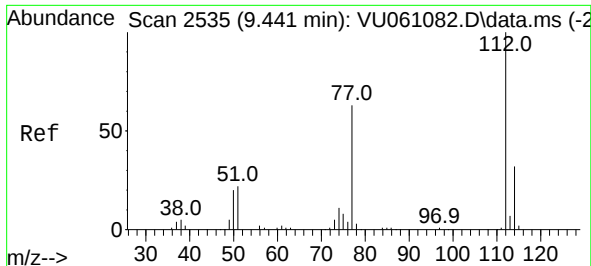
Tgt Ion:129 Resp: 20914

Ion Ratio Lower Upper

129 100

127 0.0 56.1 104.1#





#51

Chlorobenzene

Concen: 0.296 ug/L

RT: 9.441 min Scan# 2535

Delta R.T. 0.000 min

Lab File: VU061100.D

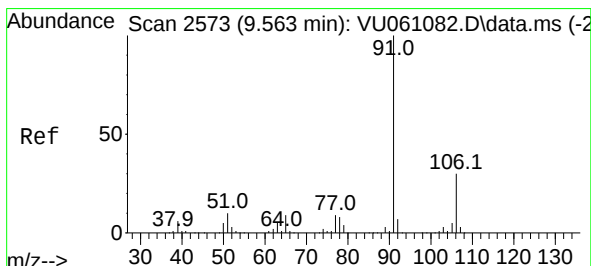
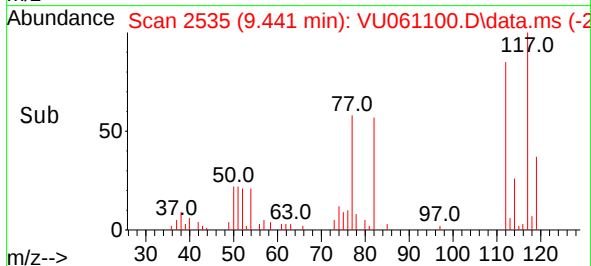
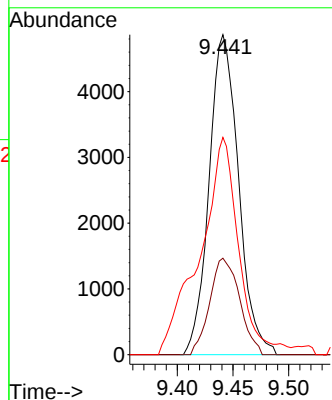
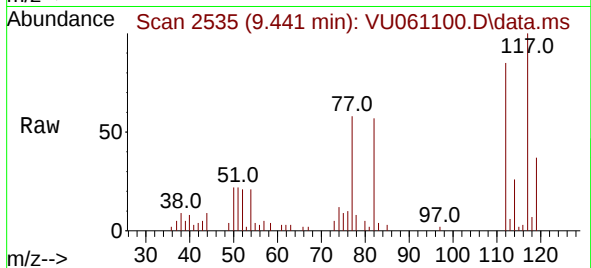
Acq: 10 Oct 2024 19:38

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:112	Resp:	8962
Ion Ratio	Lower	Upper
112	100	
114	30.1	22.2 41.2
77	67.9	46.1 69.1



#52

Ethylbenzene

Concen: 0.501 ug/L

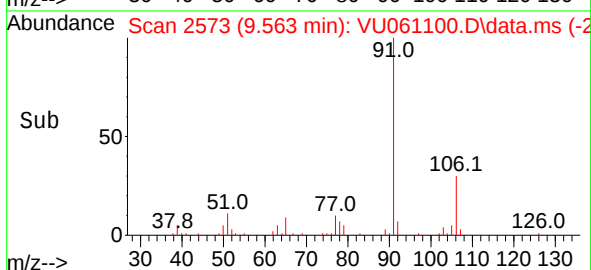
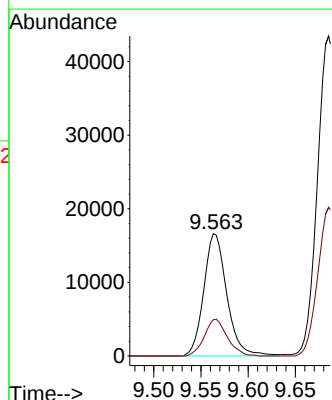
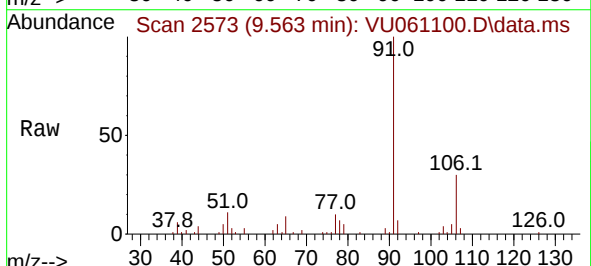
RT: 9.563 min Scan# 2573

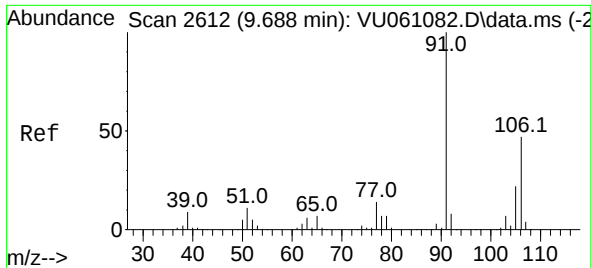
Delta R.T. 0.000 min

Lab File: VU061100.D

Acq: 10 Oct 2024 19:38

Tgt Ion: 91	Resp:	28198
Ion Ratio	Lower	Upper
91	100	
106	29.6	21.8 40.6





#53

m,p-Xylene

Concen: 1.726 ug/L

RT: 9.685 min Scan# 2

Delta R.T. -0.003 min

Lab File: VU061100.D

Acq: 10 Oct 2024 19:38

Instrument :

MSVOA_U

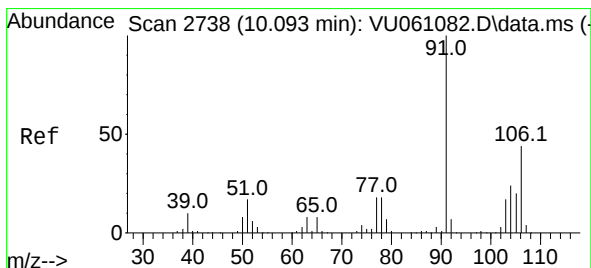
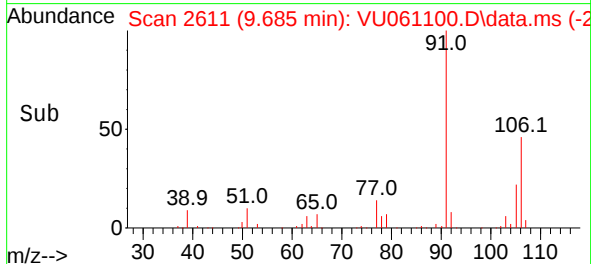
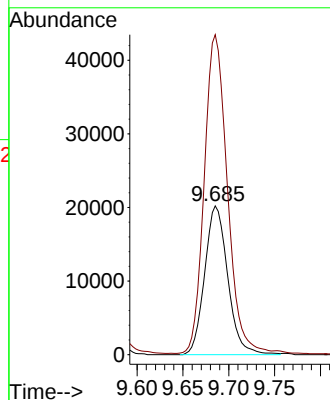
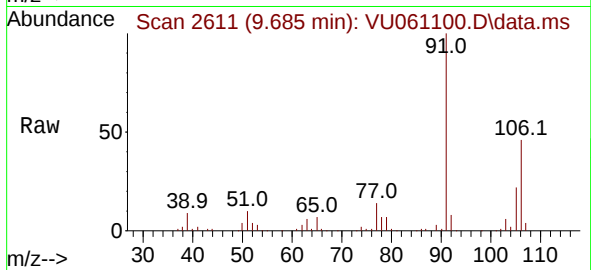
ClientSampleId :

Tgt Ion:106 Resp: 35471

Ion Ratio Lower Upper

106 100

91 215.1 139.7 259.4



#54

o-Xylene

Concen: 1.126 ug/L

RT: 10.094 min Scan# 2738

Delta R.T. 0.000 min

Lab File: VU061100.D

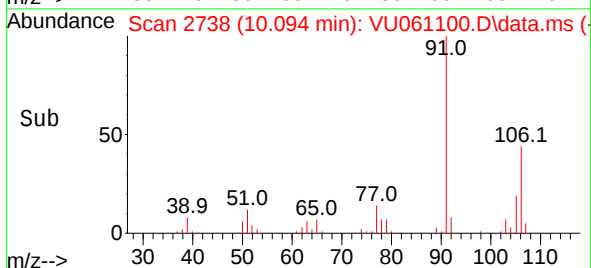
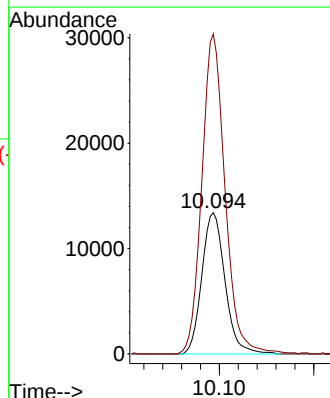
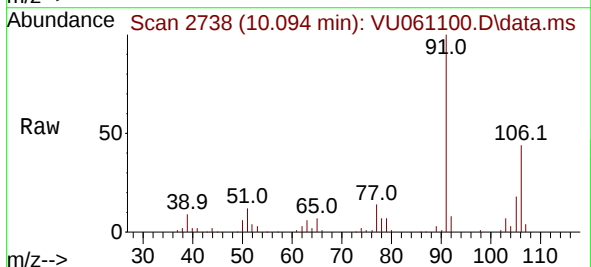
Acq: 10 Oct 2024 19:38

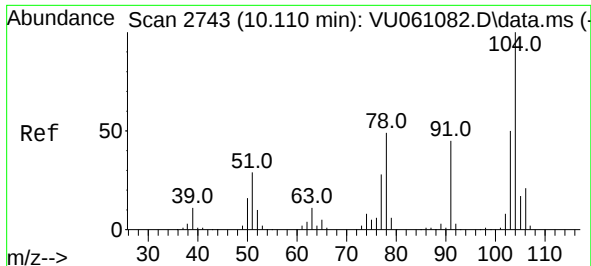
Tgt Ion:106 Resp: 22771

Ion Ratio Lower Upper

106 100

91 226.4 148.6 276.0





#55

Styrene

Concen: 0.084 ug/L

RT: 10.103 min Scan# 21

Delta R.T. -0.006 min

Lab File: VU061100.D

Acq: 10 Oct 2024 19:38

Instrument :

MSVOA_U

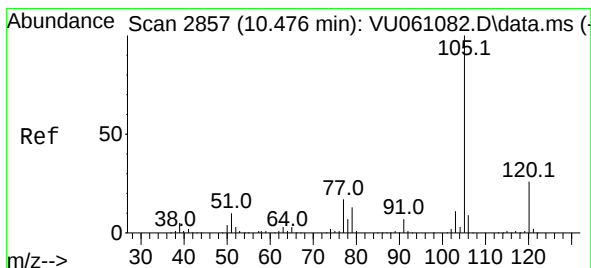
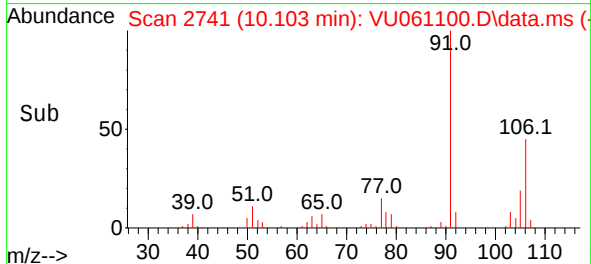
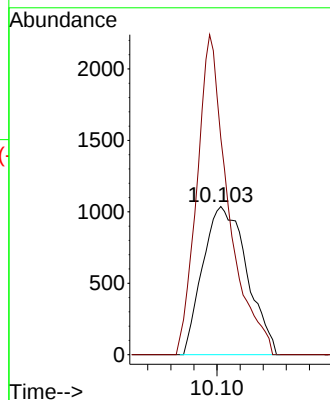
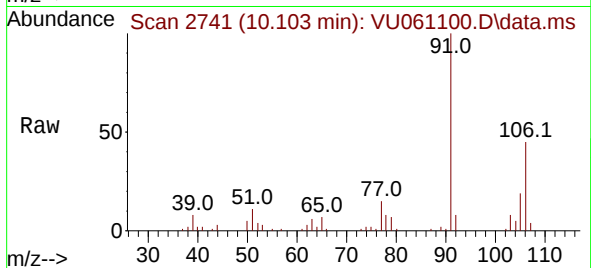
ClientSampleId :

Tgt Ion:104 Resp: 2754

Ion Ratio Lower Upper

104 100

78 146.0 31.7 58.9#



#60

Isopropylbenzene

Concen: 0.143 ug/L

RT: 10.476 min Scan# 2857

Delta R.T. 0.000 min

Lab File: VU061100.D

Acq: 10 Oct 2024 19:38

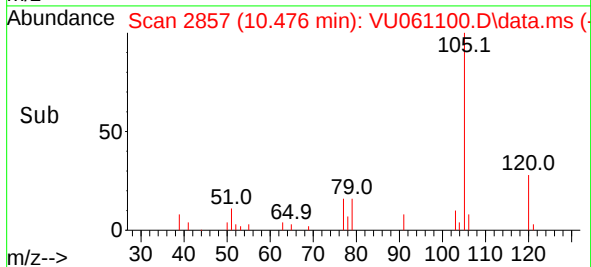
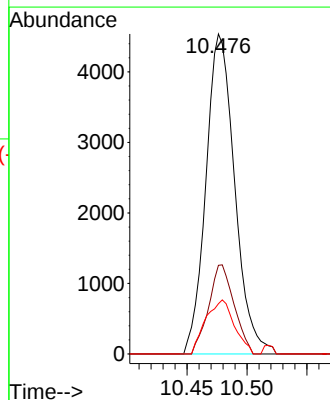
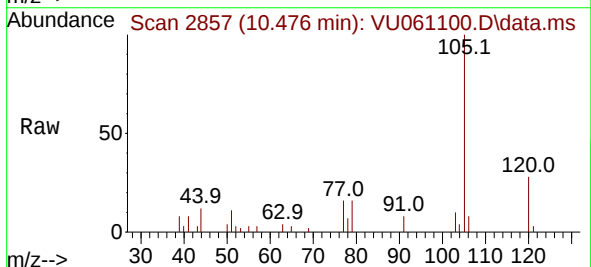
Tgt Ion:105 Resp: 7566

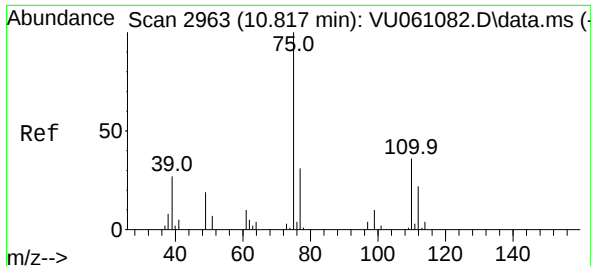
Ion Ratio Lower Upper

105 100

120 24.6 21.5 32.3

77 16.8 12.6 18.8





#61

1,2,3-Trichloropropane

Concen: 0.132 ug/L

RT: 11.737 min Scan# 3249

Delta R.T. 0.920 min

Lab File: VU061100.D

Acq: 10 Oct 2024 19:38

Instrument :

MSVOA_U

ClientSampleId :

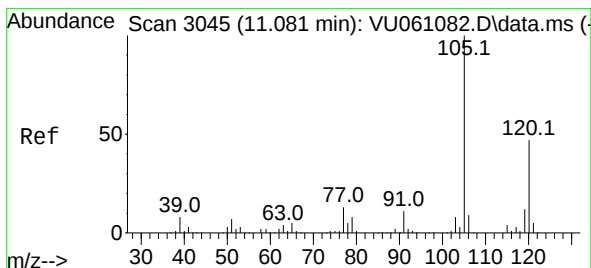
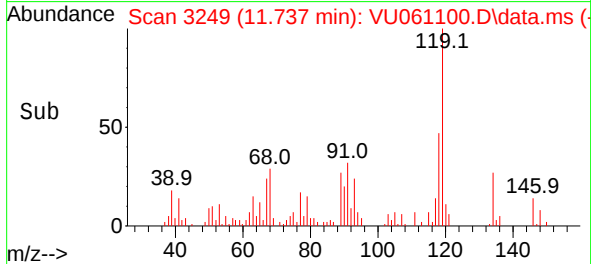
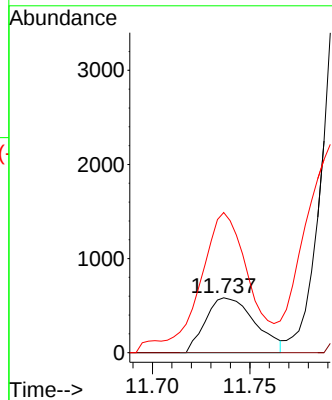
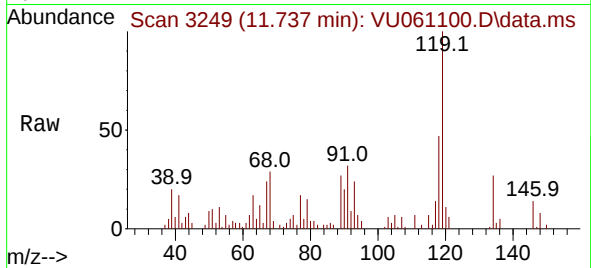
Tgt Ion: 75 Resp: 1028

Ion Ratio Lower Upper

75 100

110 0.0 28.6 43.0#

77 255.4 26.3 39.5#



#62

1,3,5-Trimethylbenzene

Concen: 1.132 ug/L

RT: 11.081 min Scan# 3045

Delta R.T. 0.000 min

Lab File: VU061100.D

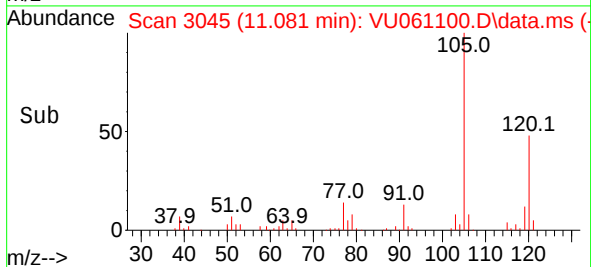
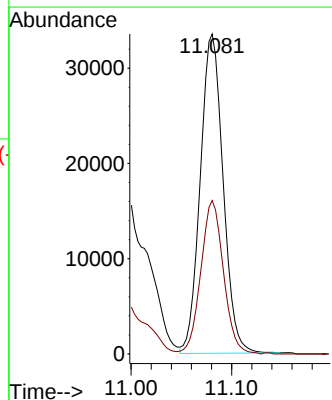
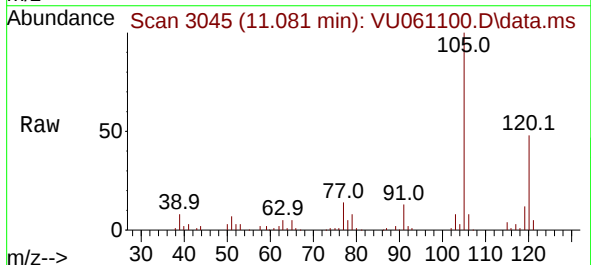
Acq: 10 Oct 2024 19:38

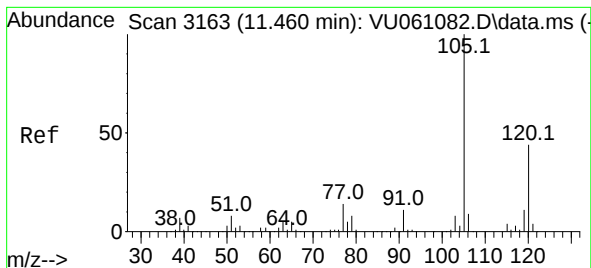
Tgt Ion:105 Resp: 52782

Ion Ratio Lower Upper

105 100

120 47.7 38.5 57.7





#63

1,2,4-Trimethylbenzene

Concen: 1.804 ug/L

RT: 11.460 min Scan# 3163

Delta R.T. 0.000 min

Lab File: VU061100.D

Acq: 10 Oct 2024 19:38

Instrument :

MSVOA_U

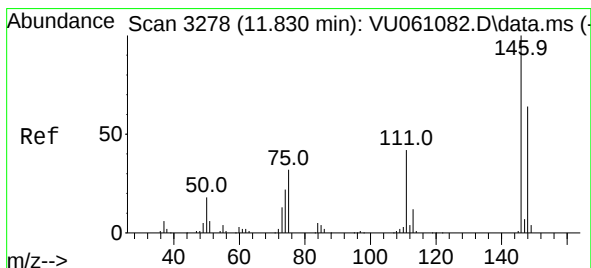
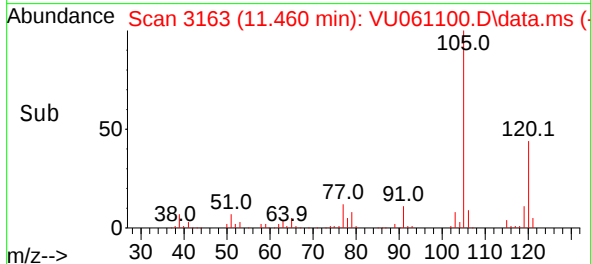
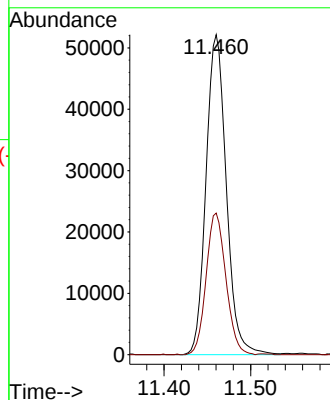
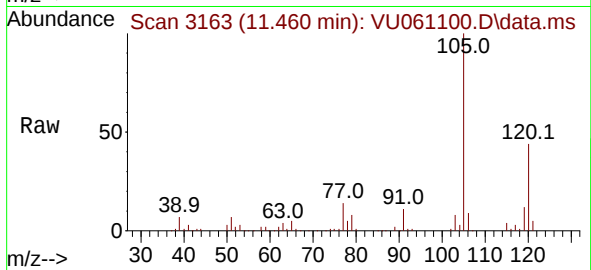
ClientSampleId :

Tgt Ion:105 Resp: 84890

Ion Ratio Lower Upper

105 100

120 43.1 36.1 54.1



#65

1,4-Dichlorobenzene

Concen: 2.318 ug/L

RT: 11.827 min Scan# 3277

Delta R.T. -0.003 min

Lab File: VU061100.D

Acq: 10 Oct 2024 19:38

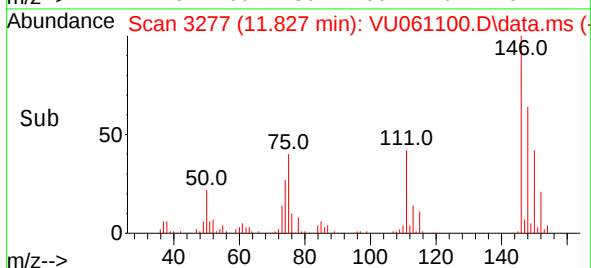
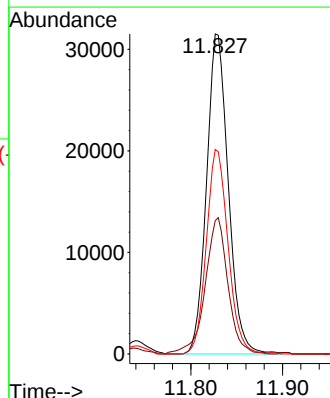
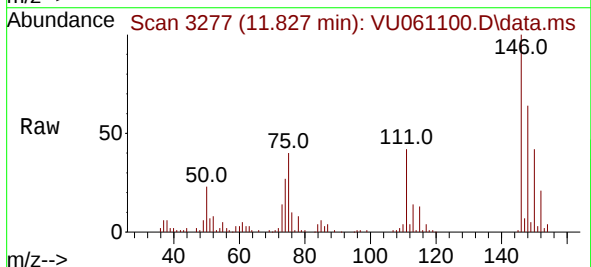
Tgt Ion:146 Resp: 51937

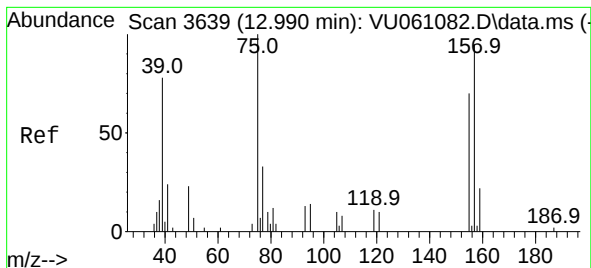
Ion Ratio Lower Upper

146 100

111 41.7 26.3 48.9

148 63.9 45.3 84.1

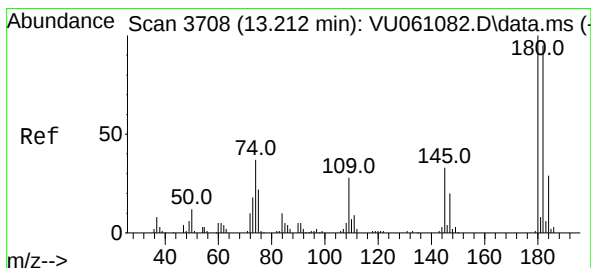
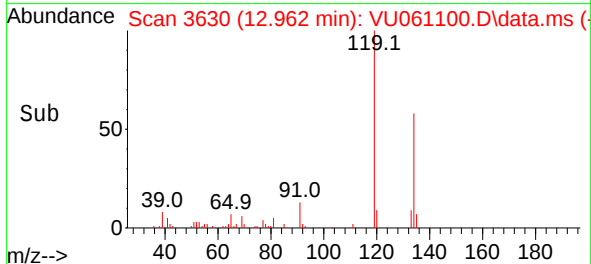
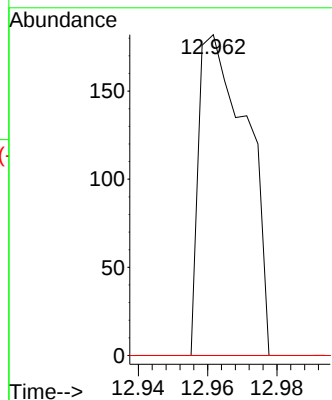
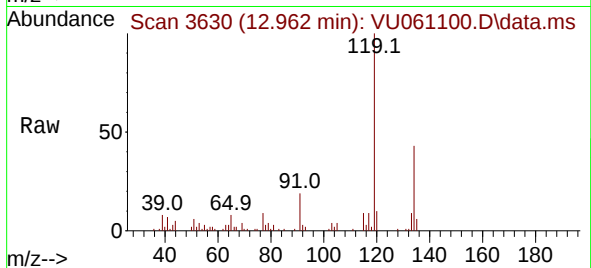




#68
1,2-Dibromo-3-chloropropane
Concen: 0.103 ug/L
RT: 12.962 min Scan# 3900
Delta R.T. -0.029 min
Lab File: VU061100.D
Acq: 10 Oct 2024 19:38

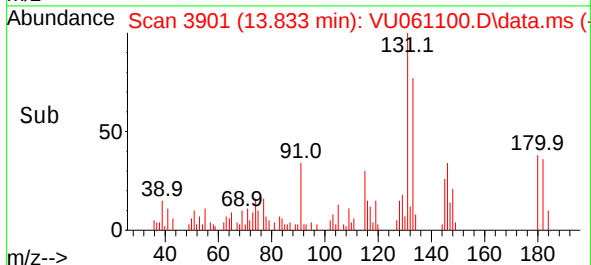
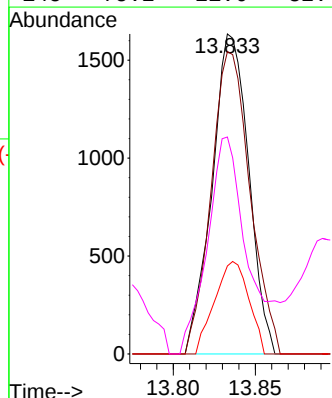
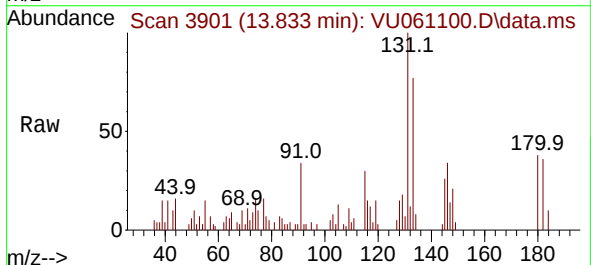
Instrument :
MSVOA_U
ClientSampleId :

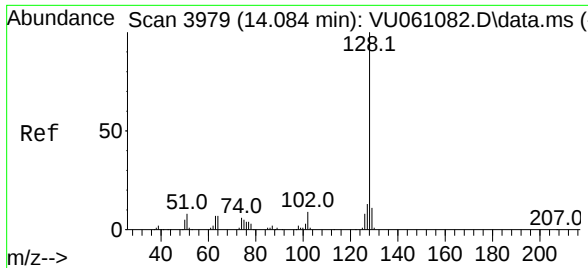
Tgt Ion: 75 Resp: 175
Ion Ratio Lower Upper
75 100
155 0.0 73.1 109.7#
157 0.0 91.0 136.4#



#69
1,3,5-Trichlorobenzene
Concen: 0.159 ug/L
RT: 13.833 min Scan# 3901
Delta R.T. 0.621 min
Lab File: VU061100.D
Acq: 10 Oct 2024 19:38

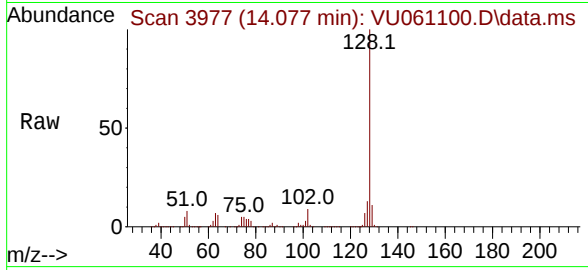
Tgt Ion:180 Resp: 2533
Ion Ratio Lower Upper
180 100
182 100.3 74.5 111.7
184 27.0 23.2 34.8
145 75.2 21.6 32.4#





#71
Naphthalene
Concen: 60.458 ug/L
RT: 14.077 min Scan# 3977
Delta R.T. -0.006 min
Lab File: VU061100.D
Acq: 10 Oct 2024 19:38

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:128 Resp: 1208061
Ion Ratio Lower Upper
128 100
129 11.0 8.3 12.5
127 13.0 10.7 16.1

