

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU052424\
 Data File : VU058961.D
 Acq On : 23 May 2024 20:22
 Operator : MD/SY
 Sample : P2566-03
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 24 07:07:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM052324WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri May 24 06:52:32 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.251	114	1102	50.000	ug/L	# 0.00
28) Chlorobenzene-d5	9.421	117	4156	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	5260	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	2067	177.346	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	354.700%#
7) Chloroethane-d5	1.907	69	731	75.467	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	150.940%#
11) 1,1-Dichloroethene-d2	2.566	63	2895	162.577	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	325.160%#
21) 2-Butanone-d5	0.000	46	0	0.000	ug/L	
Spiked Amount	100.000	Range	40 - 130	Recovery	=	0.000%#
24) Chloroform-d	5.062	84	1140	57.024	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	114.040%
26) 1,2-Dichloroethane-d4	5.701	65	444	36.315	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	72.620%
32) Benzene-d6	5.734	84	2324	16.402	ug/L	0.01
Spiked Amount	50.000	Range	70 - 125	Recovery	=	32.800%#
36) 1,2-Dichloropropane-d6	6.669	67	184	3.932	ug/L	-0.01
Spiked Amount	50.000	Range	70 - 120	Recovery	=	7.860%#
41) Toluene-d8	7.901	98	3625	28.543	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	57.080%#
43) trans-1,3-Dichloroprop...	8.187	79	1027	48.873	ug/L	0.01
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.740%
47) 2-Hexanone-d5	8.647	63	134	6.923	ug/L	0.02
Spiked Amount	100.000	Range	45 - 130	Recovery	=	6.920%#
56) 1,1,2,2-Tetrachloroeth...	10.749	84	1168	16.590	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	33.180%#
66) 1,2-Dichlorobenzene-d4	12.190	152	3425	31.557	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	63.120%#
Target Compounds						
					Qvalue	
3) Chloromethane	1.515	50	705	89.235	ug/L	99
5) Vinyl chloride	1.602	62	10420	1129.440	ug/L	93
8) Chloroethane	1.898	64	45	7.112	ug/L	# 42
12) 1,1-Dichloroethene	2.570	96	446	65.330	ug/L	# 24
13) Acetone	2.634	43	11276	1597.450	ug/L	96
14) Carbon disulfide	2.792	76	964	75.055	ug/L	# 75
15) Methyl Acetate	2.843	43	61	5.362	ug/L	# 50
16) Methylene chloride	3.036	84	1388	127.456	ug/L	87
18) Methyl tert-butyl Ether	3.351	73	180	6.631	ug/L	# 28
20) cis-1,2-Dichloroethene	4.660	96	42068	4633.927	ug/L	94
22) 2-Butanone	4.647	43	359	39.043	ug/L	86
25) Chloroform	5.081	83	1504	81.534	ug/L	91
30) 1,1,1-Trichloroethane	5.309	97	520	10.425	ug/L	# 5
31) Carbon tetrachloride	5.518	117	4322	107.274	ug/L	100
33) Benzene	5.772	78	1003	8.028	ug/L	100
35) Methylcyclohexane	6.762	83	370	9.519	ug/L	# 30
42) Toluene	7.968	91	5999	44.792	ug/L	100
45) 1,1,2-Trichloroethane	8.396	97	1952	48.691	ug/L	96
46) Tetrachloroethene	8.547	164	76804	3473.646	ug/L	97

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

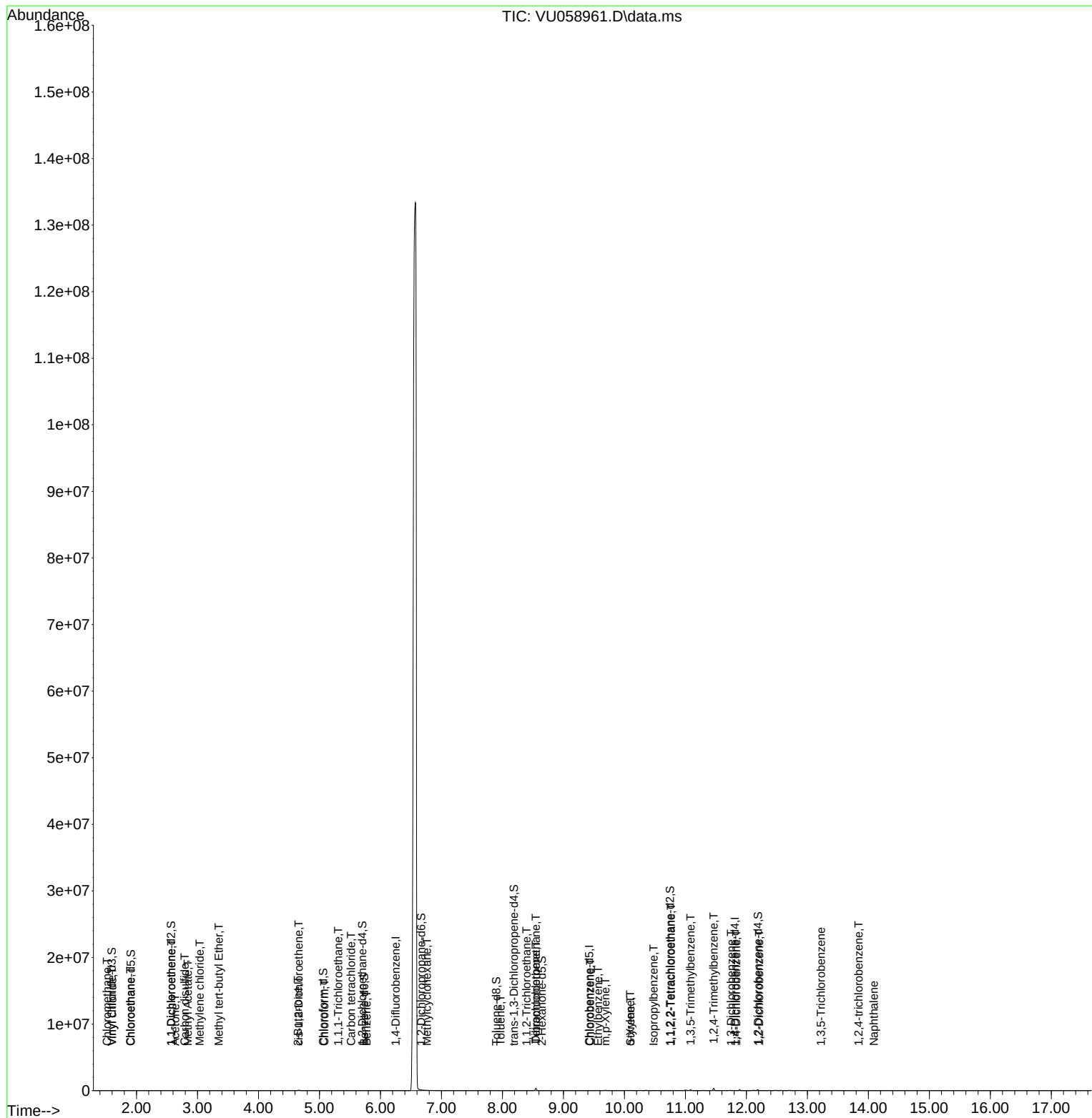
49) Dibromochloromethane	8.547	129	77134	2013.443	ug/L	#	9
51) Chlorobenzene	9.441	112	127	1.435	ug/L	#	79
52) Ethylbenzene	9.566	91	18255	125.950	ug/L		96
53) m,p-Xylene	9.688	106	16232	311.782	ug/L		88
54) o-Xylene	10.097	106	10355	198.722	ug/L		89
55) Styrene	10.100	104	843	9.057	ug/L	#	1
57) 1,1,2,2-Tetrachloroethane	10.765	83	209	2.893	ug/L	#	26
61) Isopropylbenzene	10.479	105	9383	27.935	ug/L		97
62) 1,3,5-Trimethylbenzene	11.084	105	63736	240.858	ug/L		95
63) 1,2,4-Trimethylbenzene	11.463	105	178278	668.036	ug/L		99
64) 1,3-Dichlorobenzene	11.749	146	406	2.328	ug/L	#	78
65) 1,4-Dichlorobenzene	11.836	146	738	4.190	ug/L	#	73
67) 1,2-Dichlorobenzene	12.212	146	333	1.877	ug/L	#	76
69) 1,3,5-Trichlorobenzene	13.222	180	399	3.249	ug/L	#	40
70) 1,2,4-trichlorobenzene	13.843	180	341	3.223	ug/L	#	78
71) Naphthalene	14.090	128	12002	38.896	ug/L		98

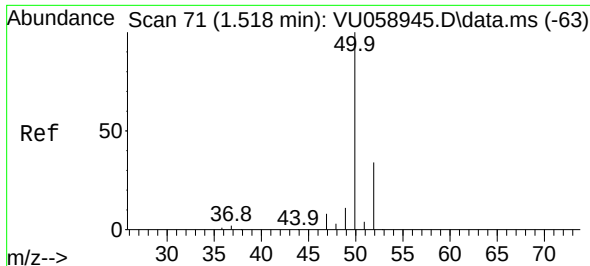
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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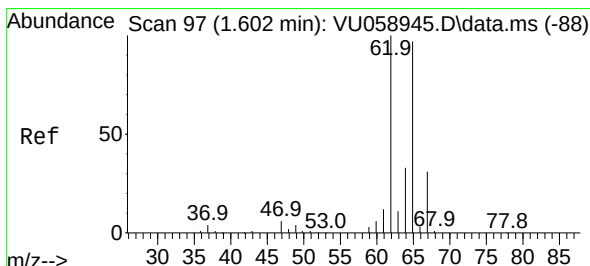
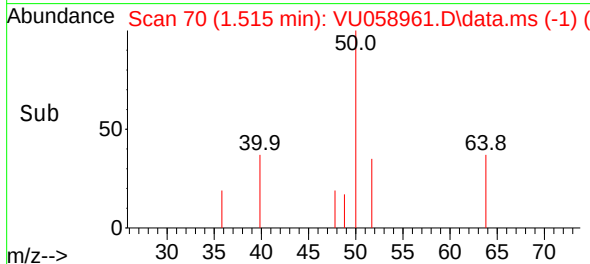
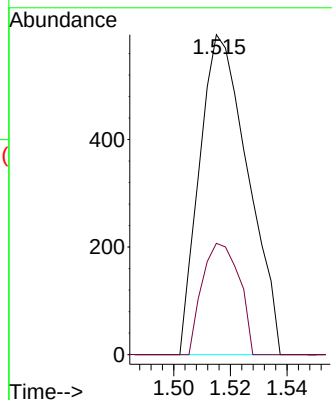
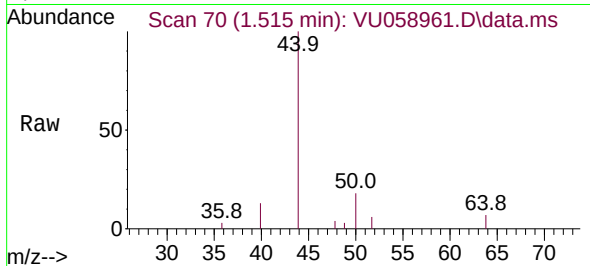




#3
Chloromethane
Concen: 89.235 ug/L
RT: 1.515 min Scan# 71
Delta R.T. -0.003 min
Lab File: VU058961.D
Acq: 23 May 2024 20:22

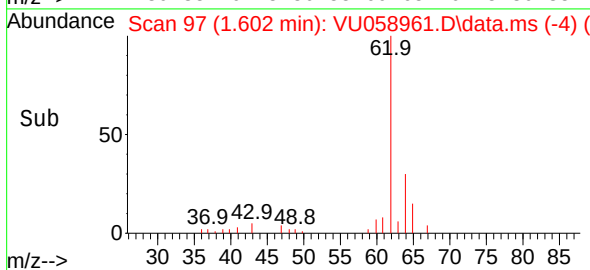
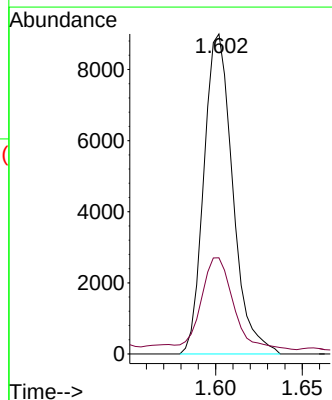
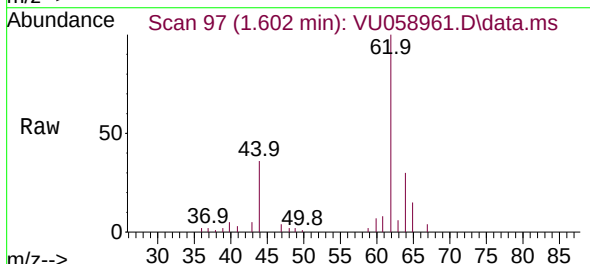
Instrument :
MSVOA_U
ClientSampleId :

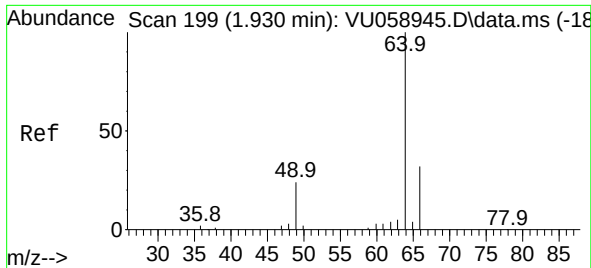
Tgt Ion: 50 Resp: 705
Ion Ratio Lower Upper
50 100
52 34.8 23.9 44.3



#5
Vinyl chloride
Concen: 1129.440 ug/L
RT: 1.602 min Scan# 97
Delta R.T. -0.000 min
Lab File: VU058961.D
Acq: 23 May 2024 20:22

Tgt Ion: 62 Resp: 10420
Ion Ratio Lower Upper
62 100
64 30.1 23.7 43.9

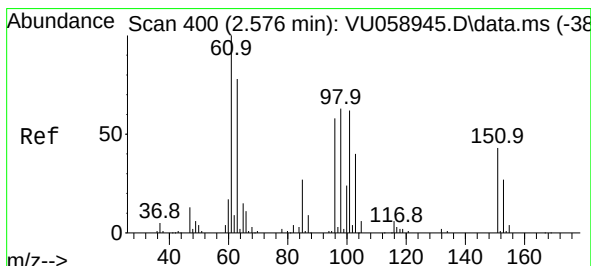
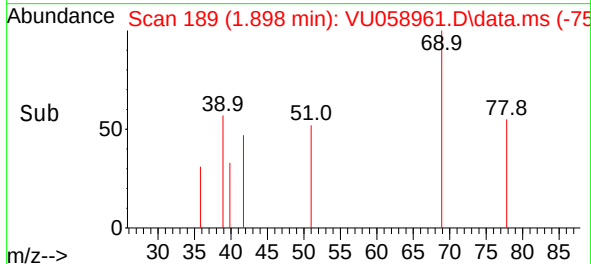
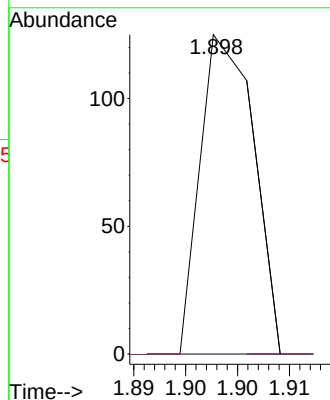
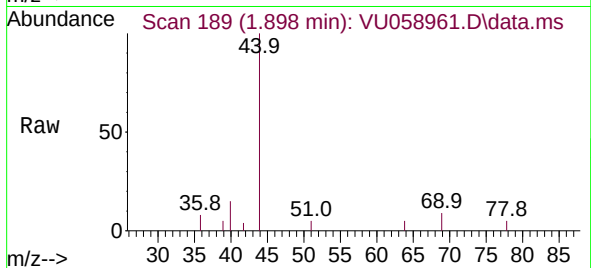




#8
Chloroethane
Concen: 7.112 ug/L
RT: 1.898 min Scan# 11
Delta R.T. -0.032 min
Lab File: VU058961.D
Acq: 23 May 2024 20:22

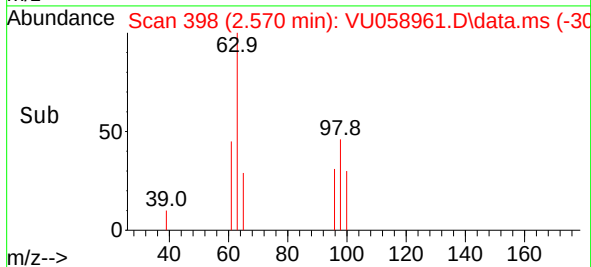
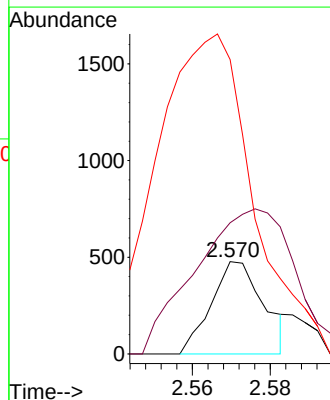
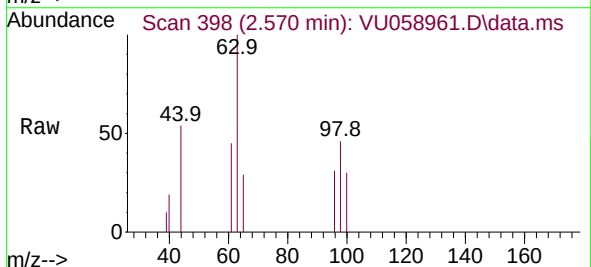
Instrument :
MSVOA_U
ClientSampleId :

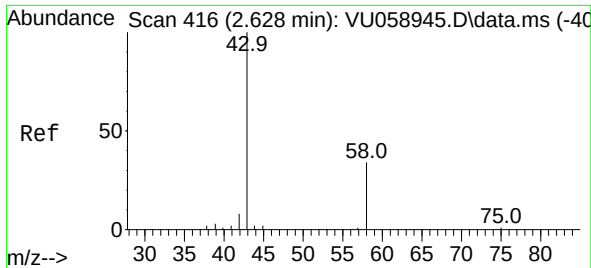
Tgt Ion: 64 Resp: 45
Ion Ratio Lower Upper
64 100
66 0.0 22.7 42.1#



#12
1,1-Dichloroethene
Concen: 65.330 ug/L
RT: 2.570 min Scan# 398
Delta R.T. -0.006 min
Lab File: VU058961.D
Acq: 23 May 2024 20:22

Tgt Ion: 96 Resp: 446
Ion Ratio Lower Upper
96 100
61 142.1 122.2 227.0
63 319.3 102.8 190.8#





#13

Acetone

Concen: 1597.450 ug/L

RT: 2.634 min Scan# 416

Delta R.T. 0.006 min

Lab File: VU058961.D

Acq: 23 May 2024 20:22

Instrument :

MSVOA_U

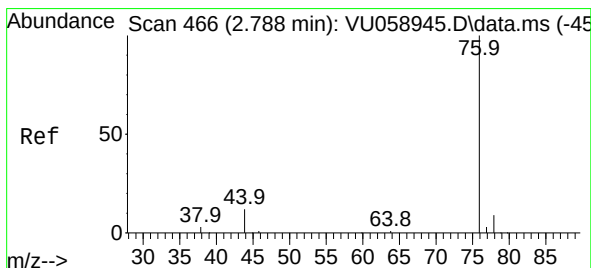
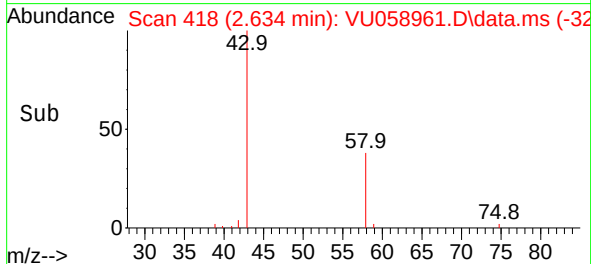
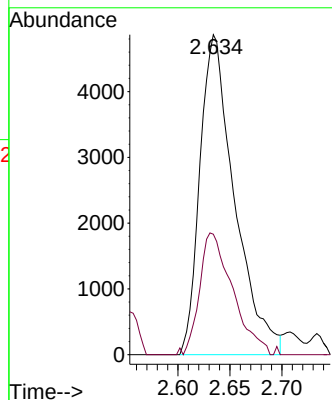
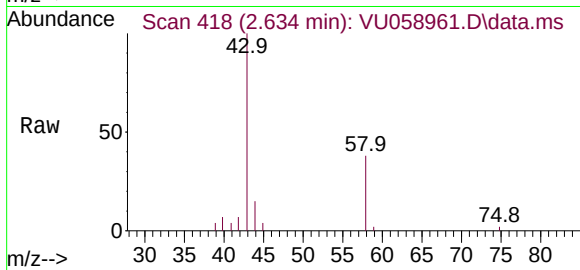
ClientSampleId :

Tgt Ion: 43 Resp: 11276

Ion Ratio Lower Upper

43 100

58 36.2 0.0 67.2



#14

Carbon disulfide

Concen: 75.055 ug/L

RT: 2.792 min Scan# 467

Delta R.T. 0.003 min

Lab File: VU058961.D

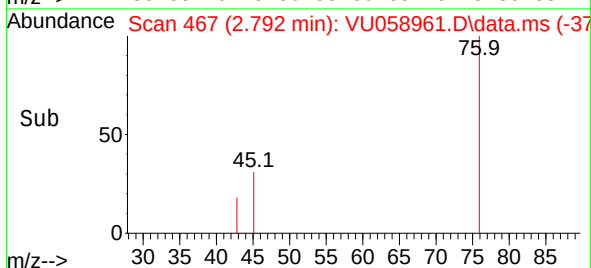
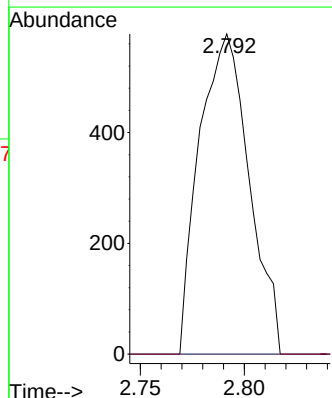
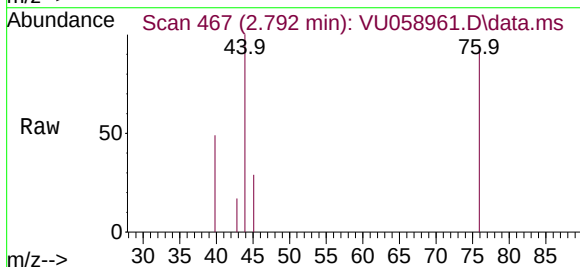
Acq: 23 May 2024 20:22

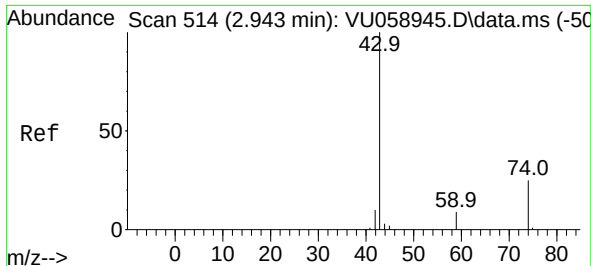
Tgt Ion: 76 Resp: 964

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#





#15

Methyl Acetate

Concen: 5.362 ug/L

RT: 2.843 min Scan# 41

Delta R.T. -0.100 min

Lab File: VU058961.D

Acq: 23 May 2024 20:22

Instrument :

MSVOA_U

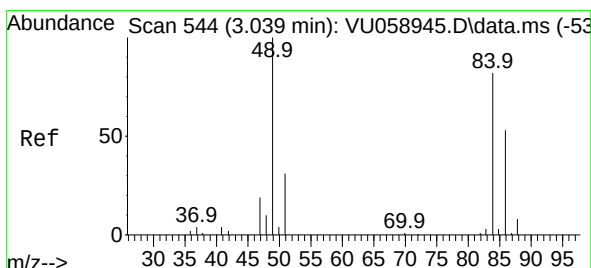
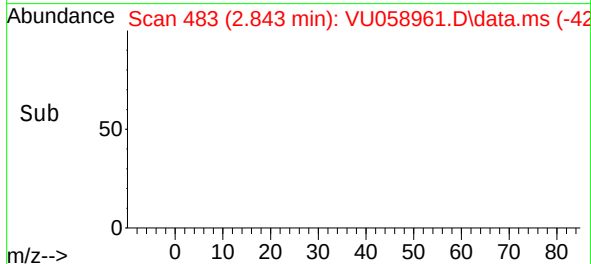
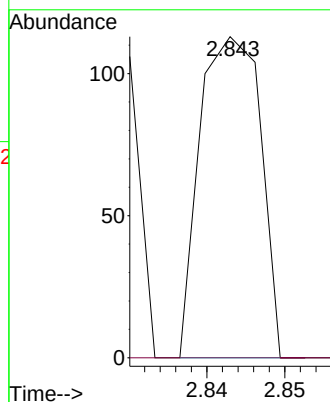
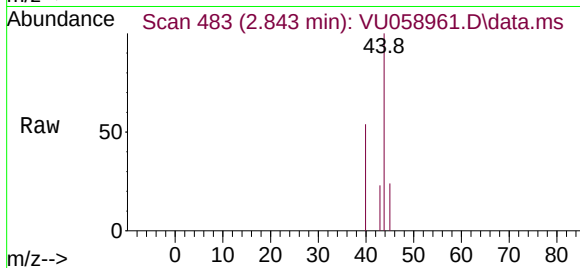
ClientSampleId :

Tgt Ion: 43 Resp: 61

Ion Ratio Lower Upper

43 100

74 0.0 19.8 29.8#



#16

Methylene chloride

Concen: 127.456 ug/L

RT: 3.036 min Scan# 543

Delta R.T. -0.003 min

Lab File: VU058961.D

Acq: 23 May 2024 20:22

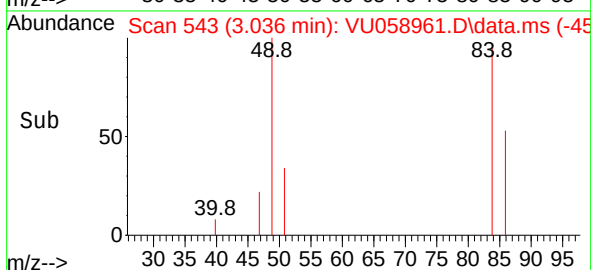
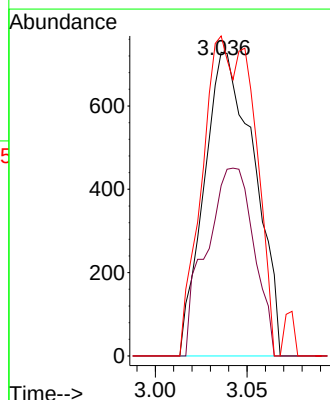
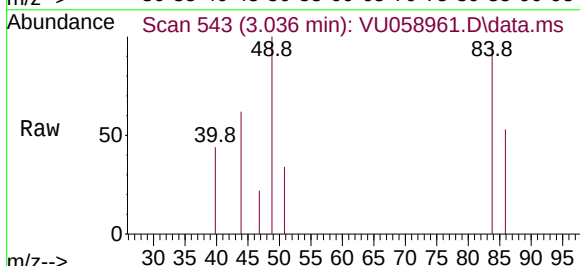
Tgt Ion: 84 Resp: 1388

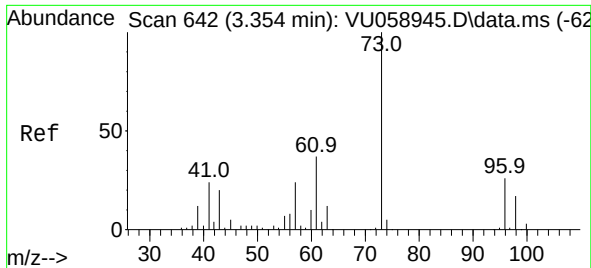
Ion Ratio Lower Upper

84 100

86 56.1 44.9 83.5

49 105.3 85.4 158.6





#18

Methyl tert-butyl Ether

Concen: 6.631 ug/L

RT: 3.351 min Scan# 642

Delta R.T. -0.003 min

Lab File: VU058961.D

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Instrument :

MSVOA_U

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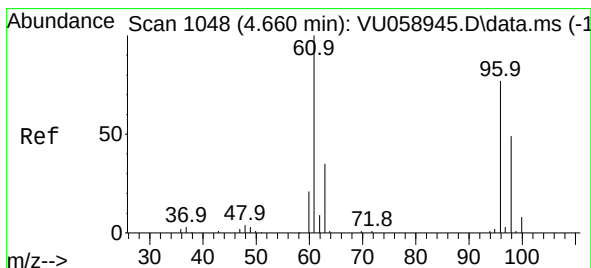
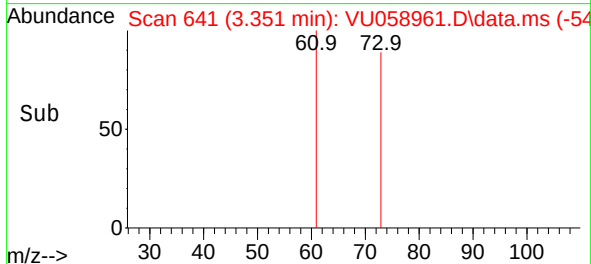
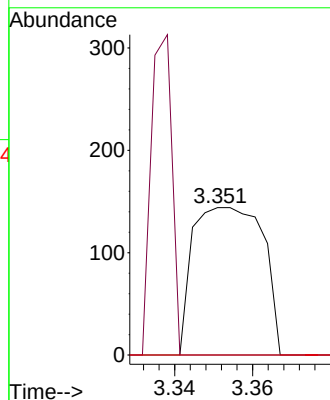
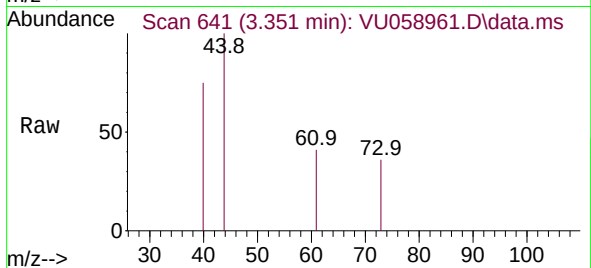
Tgt Ion: 73 Resp: 180

Ion Ratio Lower Upper

73 100

43 65.0 15.4 23.2#

57 0.0 18.6 27.8#



#20

cis-1,2-Dichloroethene

Concen: 4633.927 ug/L

RT: 4.660 min Scan# 1048

Delta R.T. -0.000 min

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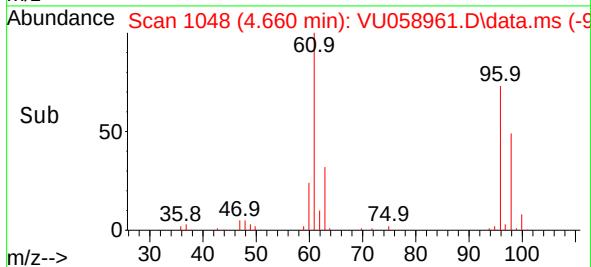
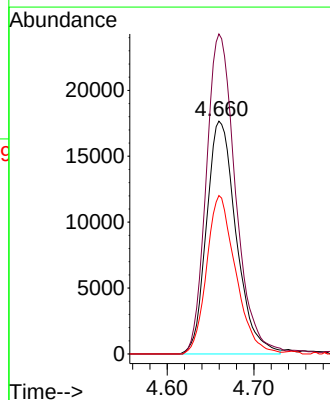
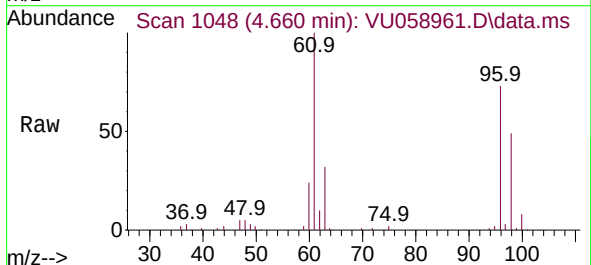
Tgt Ion: 96 Resp: 42068

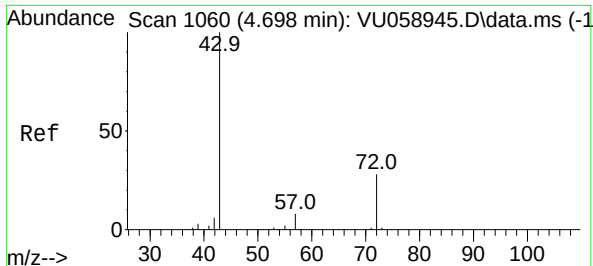
Ion Ratio Lower Upper

96 100

61 137.5 91.1 169.3

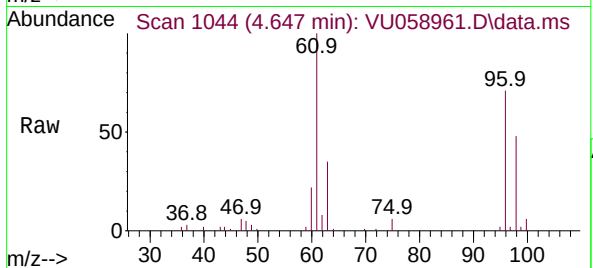
98 68.0 44.4 82.4



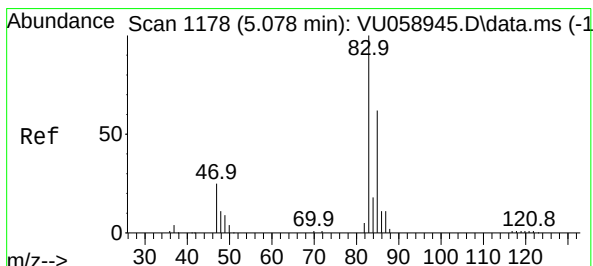
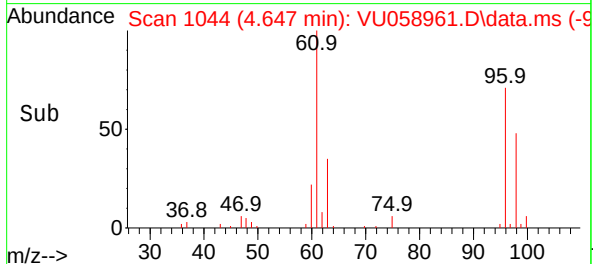
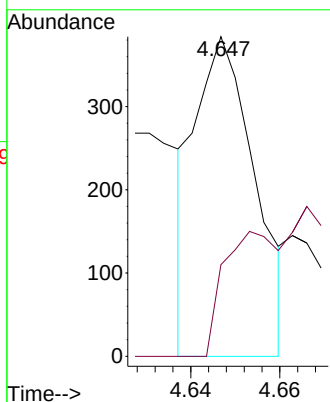


#22
2-Butanone
Concen: 39.043 ug/L
RT: 4.647 min Scan# 1044
Delta R.T. -0.051 min
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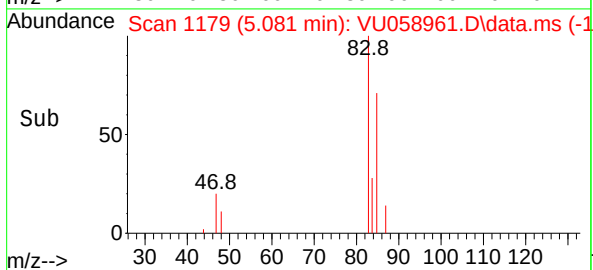
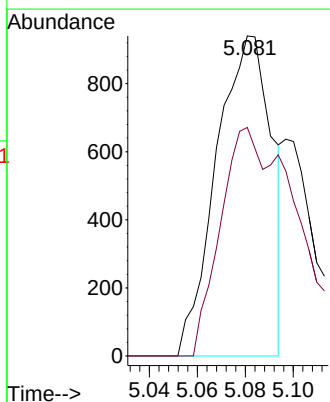
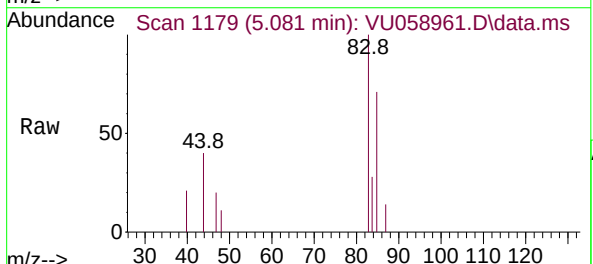


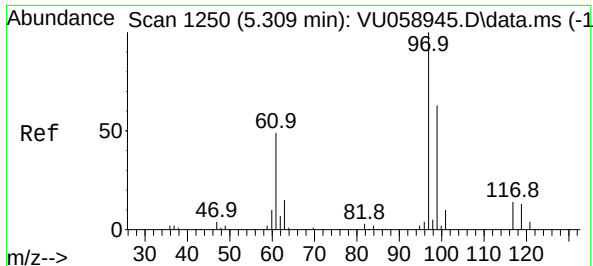
Tgt Ion: 43 Resp: 359
Ion Ratio Lower Upper
43 100
72 35.4 13.9 41.7



#25
Chloroform
Concen: 81.534 ug/L
RT: 5.081 min Scan# 1179
Delta R.T. 0.003 min
Lab File: VU058961.D
Acq: 23 May 2024 20:22

Tgt Ion: 83 Resp: 1504
Ion Ratio Lower Upper
83 100
85 55.7 43.8 81.3





#30

1,1,1-Trichloroethane

Concen: 10.425 ug/L

RT: 5.309 min Scan# 1250

Delta R.T. -0.000 min

Lab File: VU058961.D

Acq: 23 May 2024 20:22

Instrument :

MSVOA_U

ClientSampleId :

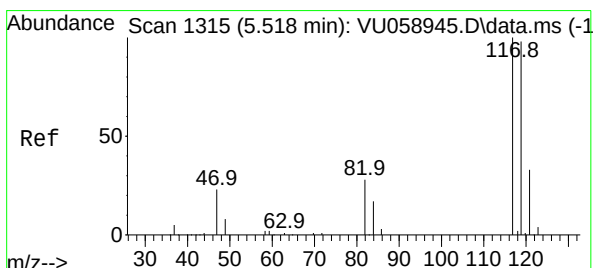
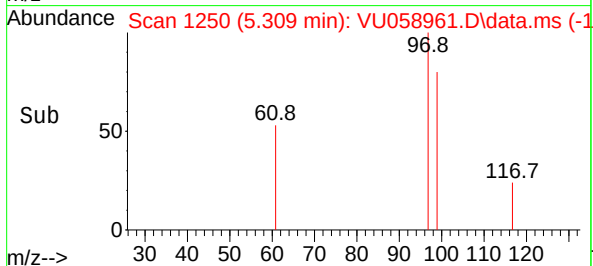
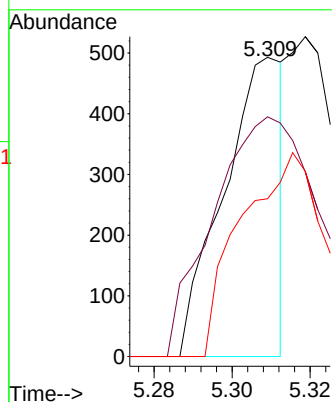
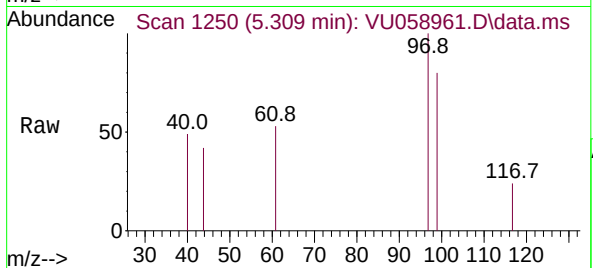
Tgt Ion: 97 Resp: 520

Ion Ratio Lower Upper

97 100

99 146.0 51.8 77.8#

61 105.4 38.9 58.3#



#31

Carbon tetrachloride

Concen: 107.274 ug/L

RT: 5.518 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VU058961.D

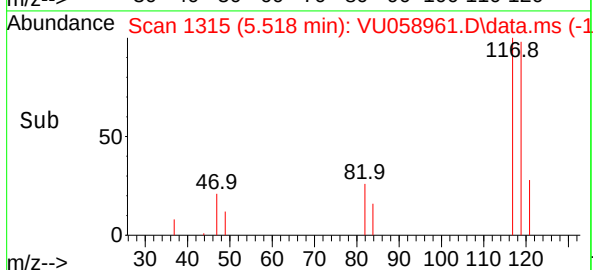
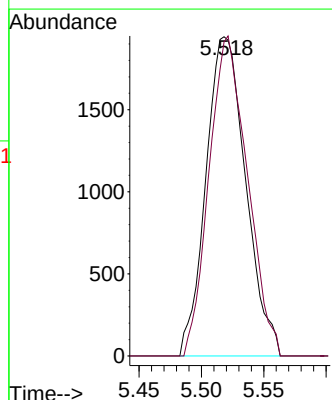
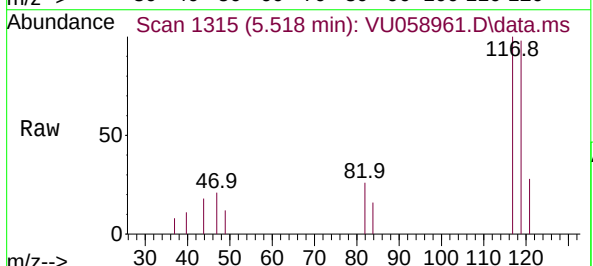
Acq: 23 May 2024 20:22

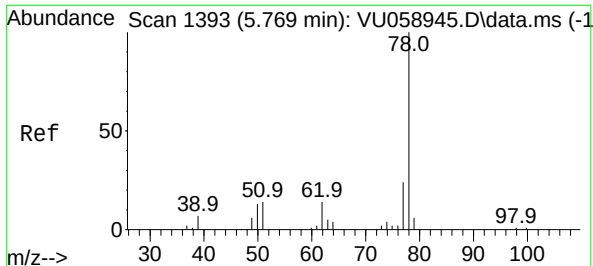
Tgt Ion: 117 Resp: 4322

Ion Ratio Lower Upper

117 100

119 96.6 77.4 116.0





#33

Benzene

Concen: 8.028 ug/L

RT: 5.772 min Scan# 1394

Delta R.T. 0.003 min

Lab File: VU058961.D

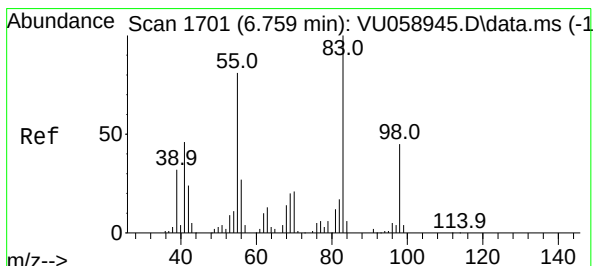
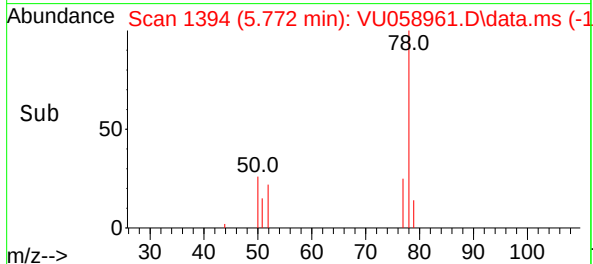
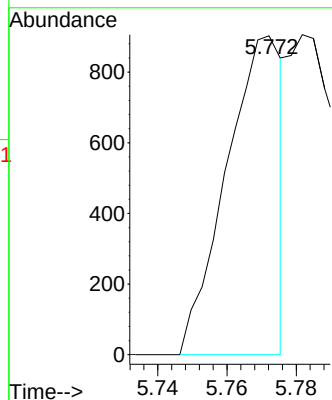
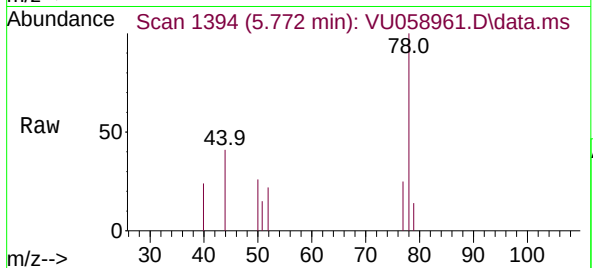
Acq: 23 May 2024 20:22

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 1003



#35

Methylcyclohexane

Concen: 9.519 ug/L

RT: 6.762 min Scan# 1702

Delta R.T. 0.003 min

Lab File: VU058961.D

Acq: 23 May 2024 20:22

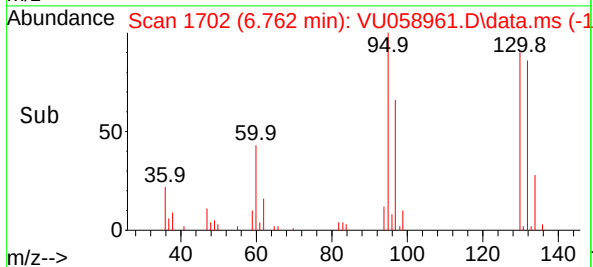
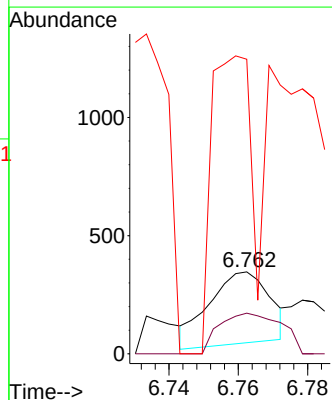
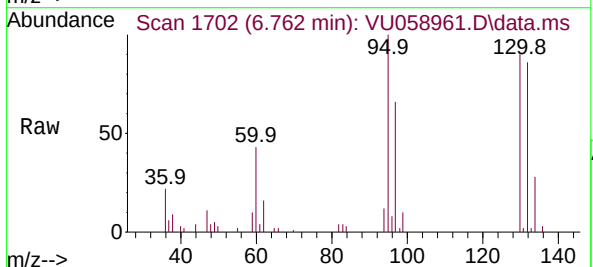
Tgt Ion: 83 Resp: 370

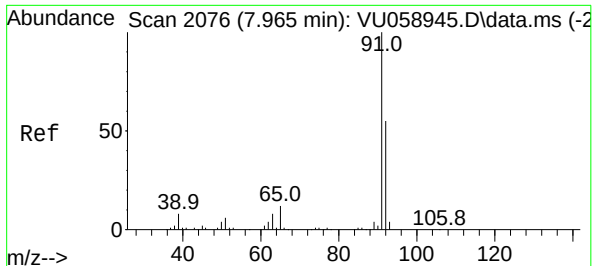
Ion Ratio Lower Upper

83 100

55 58.4 61.5 92.3#

98 144.6 36.2 54.2#





#42

Toluene

Concen: 44.792 ug/L

RT: 7.968 min Scan# 2076

Delta R.T. 0.003 min

Lab File: VU058961.D

Acq: 23 May 2024 20:22

Instrument :

MSVOA_U

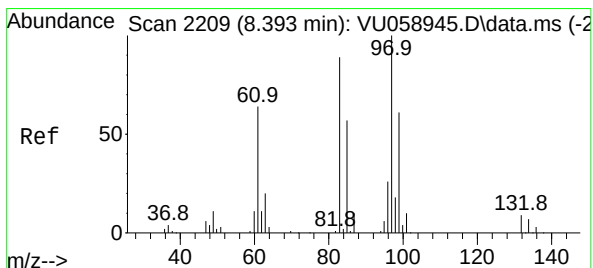
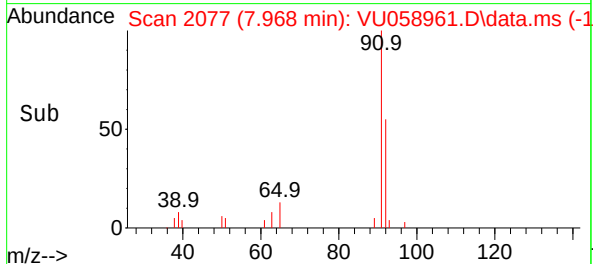
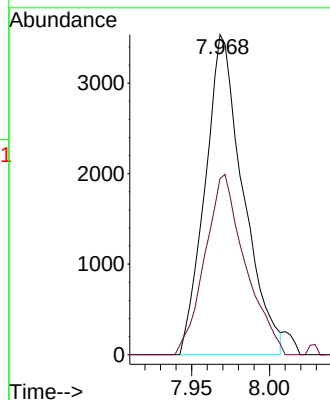
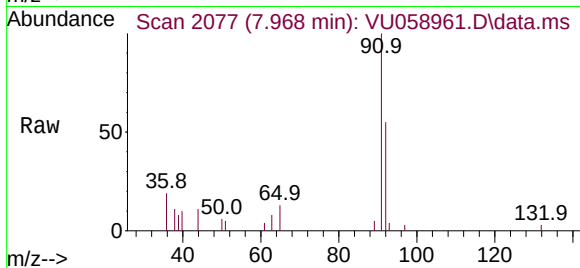
ClientSampleId :

Tgt Ion: 91 Resp: 5999

Ion Ratio Lower Upper

91 100

92 55.1 38.7 71.9



#45

1,1,2-Trichloroethane

Concen: 48.691 ug/L

RT: 8.396 min Scan# 2210

Delta R.T. 0.003 min

Lab File: VU058961.D

Acq: 23 May 2024 20:22

Tgt Ion: 97 Resp: 1952

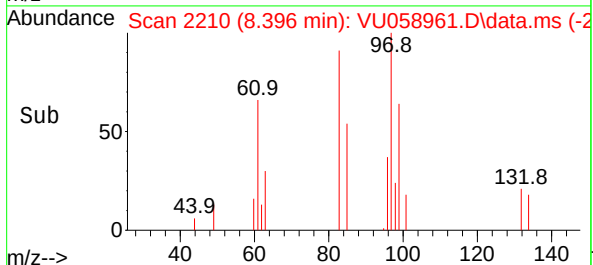
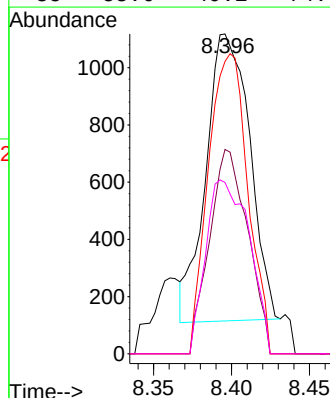
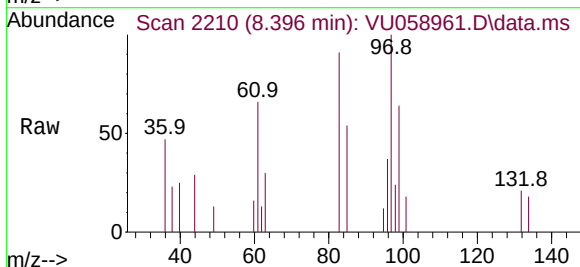
Ion Ratio Lower Upper

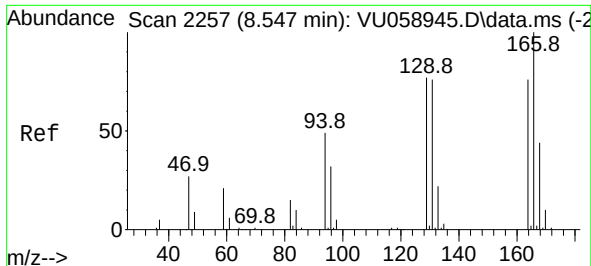
97 100

99 63.9 42.6 79.2

83 91.4 62.2 115.6

85 53.6 40.2 74.6





#46

Tetrachloroethene

Concen: 3473.646 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.000 min

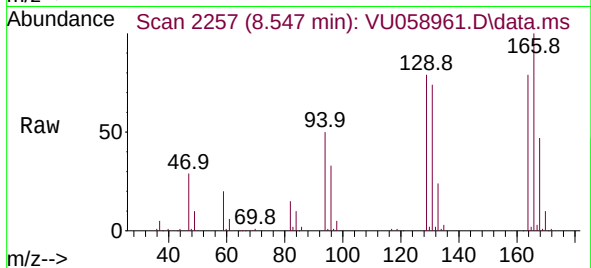
Lab File: VU058961.D

Acq: 23 May 2024 20:22

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 76804

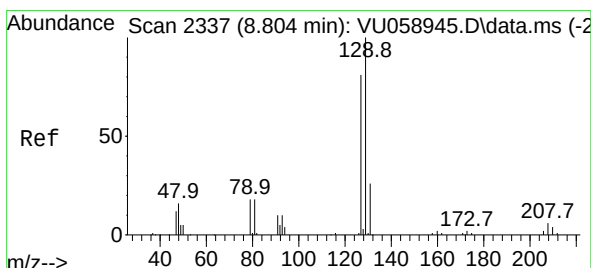
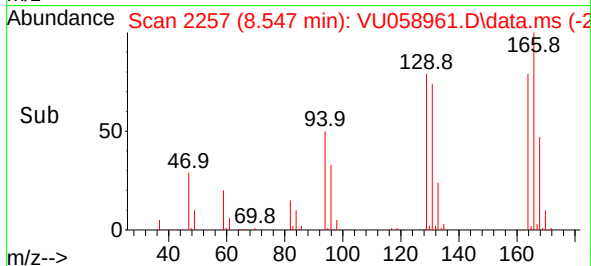
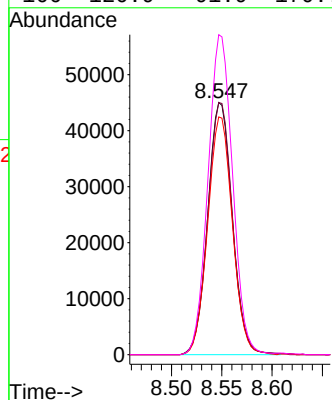
Ion Ratio Lower Upper

164 100

129 100.0 70.6 131.0

131 94.3 69.2 128.6

166 126.9 91.9 170.7



#49

Dibromochloromethane

Concen: 2013.443 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.257 min

Lab File: VU058961.D

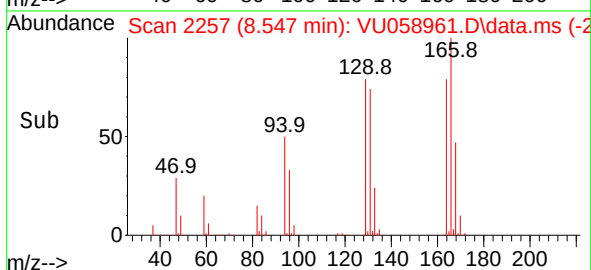
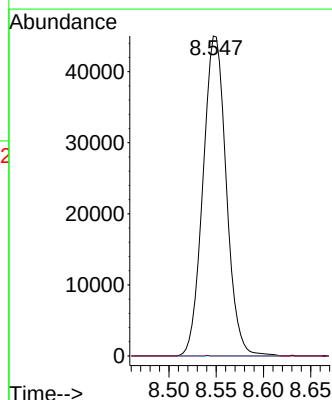
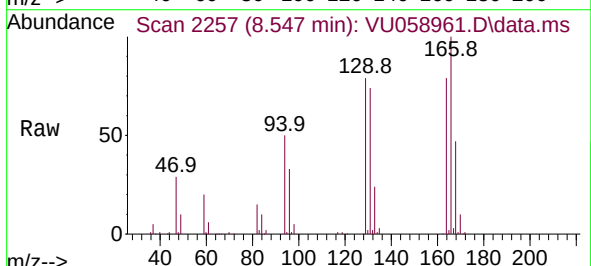
Acq: 23 May 2024 20:22

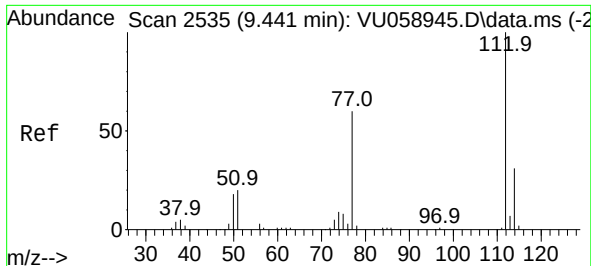
Tgt Ion:129 Resp: 77134

Ion Ratio Lower Upper

129 100

127 0.0 56.8 105.4#





#51

Chlorobenzene

Concen: 1.435 ug/L

RT: 9.441 min Scan# 2535

Delta R.T. -0.000 min

Lab File: VU058961.D

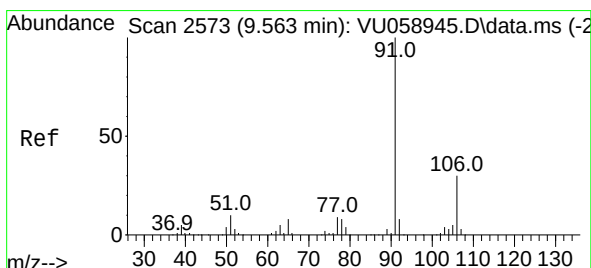
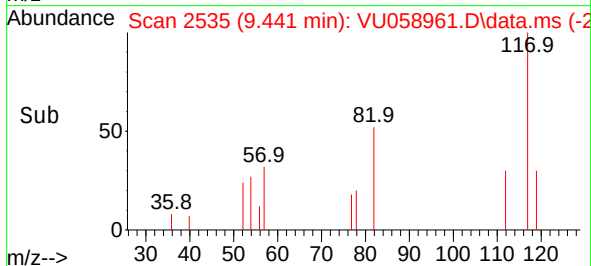
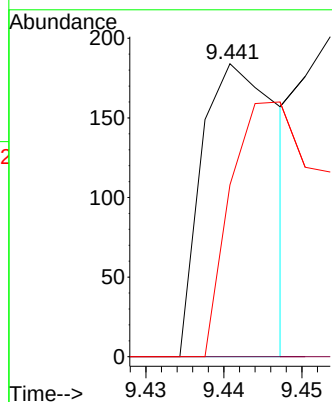
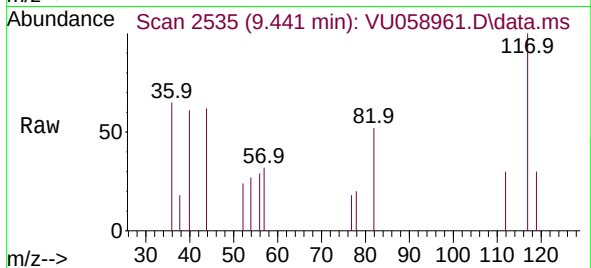
Acq: 23 May 2024 20:22

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:112	Resp:	127
Ion Ratio	Lower	Upper
112	100	
114	0.0	21.8 40.6#
77	58.7	48.8 73.2



#52

Ethylbenzene

Concen: 125.950 ug/L

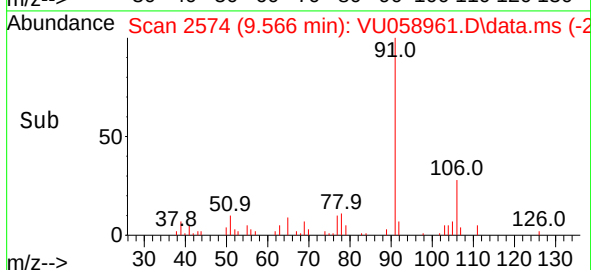
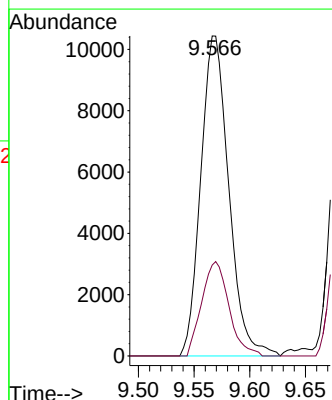
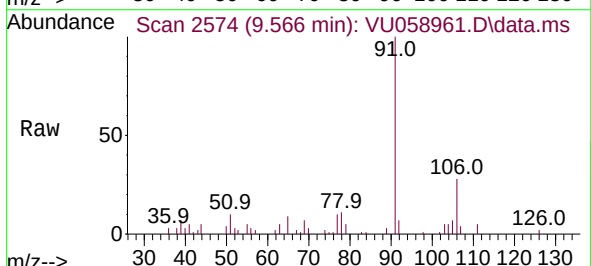
RT: 9.566 min Scan# 2574

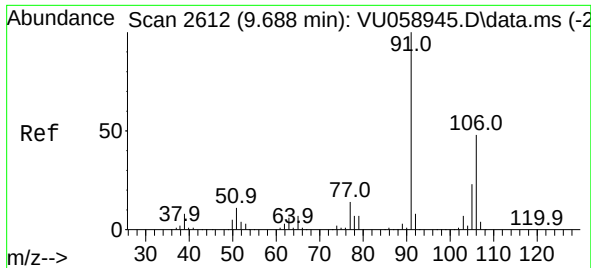
Delta R.T. 0.003 min

Lab File: VU058961.D

Acq: 23 May 2024 20:22

Tgt Ion: 91	Resp:	18255
Ion Ratio	Lower	Upper
91	100	
106	32.0	20.8 38.6

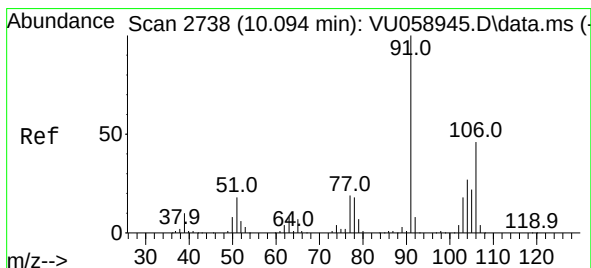
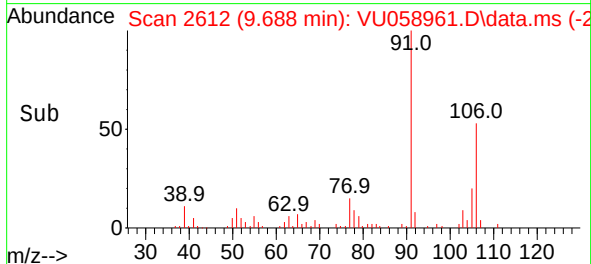
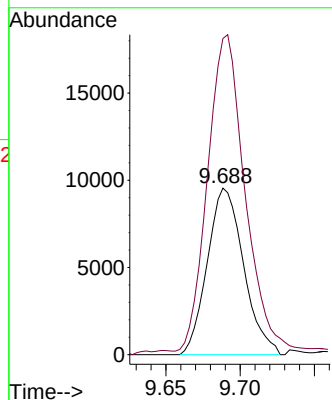
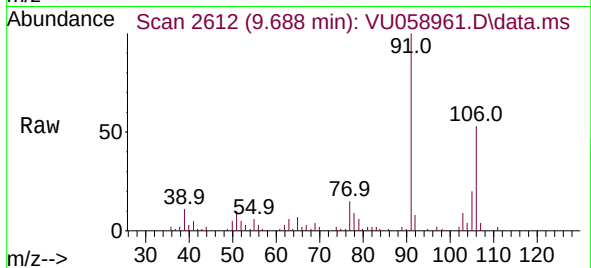




#53
m,p-Xylene
Concen: 311.782 ug/L
RT: 9.688 min Scan# 2612
Delta R.T. -0.000 min
Lab File: VU058961.D
Acq: 23 May 2024 20:22

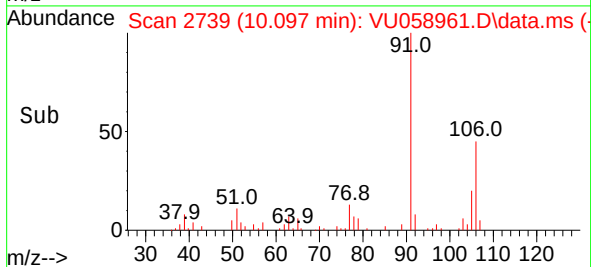
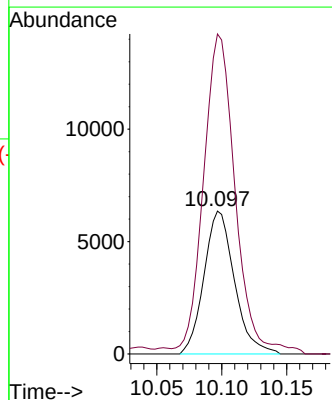
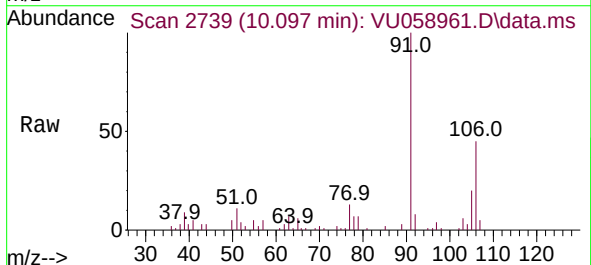
Instrument :
MSVOA_U
ClientSampleId :

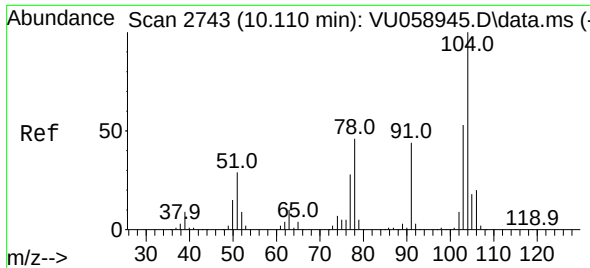
Tgt Ion:106 Resp: 16232
Ion Ratio Lower Upper
106 100
91 189.9 145.7 270.7



#54
o-Xylene
Concen: 198.722 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. 0.003 min
Lab File: VU058961.D
Acq: 23 May 2024 20:22

Tgt Ion:106 Resp: 10355
Ion Ratio Lower Upper
106 100
91 201.8 154.0 286.0

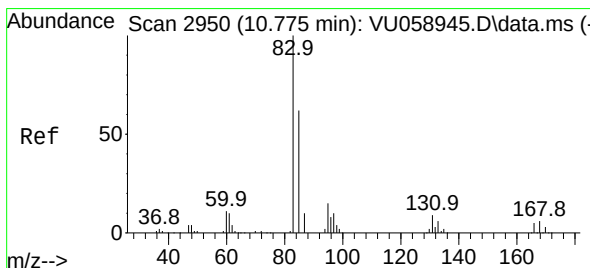
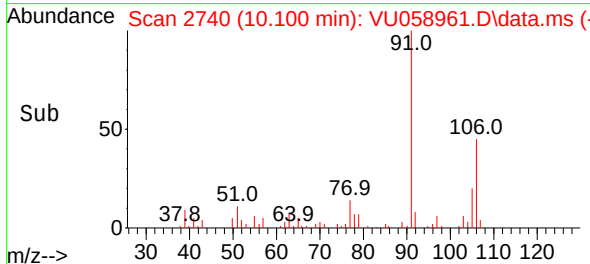
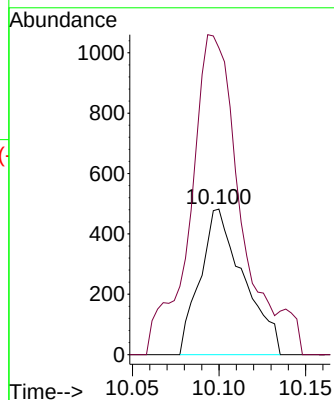
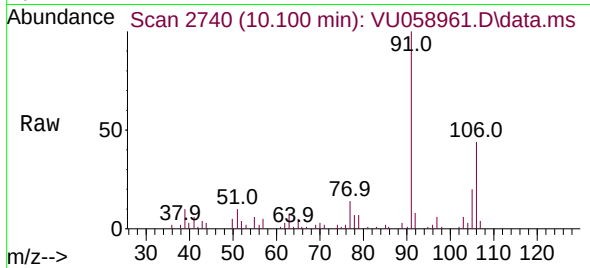




#55
Styrene
Concen: 9.057 ug/L
RT: 10.100 min Scan# 21
Delta R.T. -0.010 min
Lab File: VU058961.D
Acq: 23 May 2024 20:22

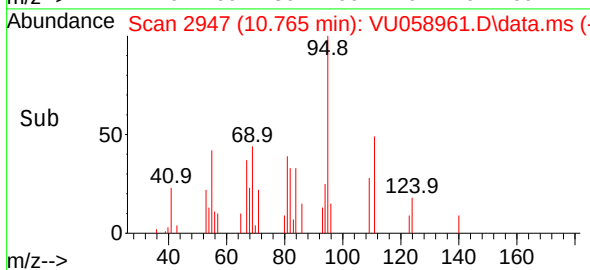
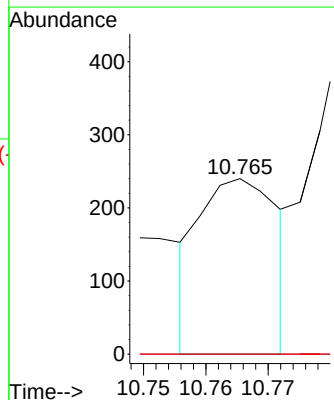
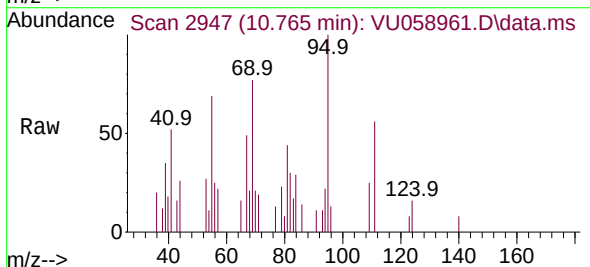
Instrument :
MSVOA_U
ClientSampleId :

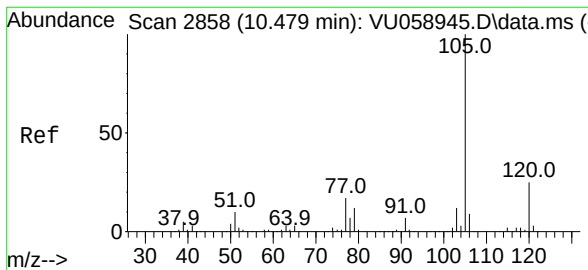
Tgt Ion:104 Resp: 843
Ion Ratio Lower Upper
104 100
78 210.8 32.3 59.9#



#57
1,1,2,2-Tetrachloroethane
Concen: 2.893 ug/L
RT: 10.765 min Scan# 2947
Delta R.T. -0.010 min
Lab File: VU058961.D
Acq: 23 May 2024 20:22

Tgt Ion: 83 Resp: 209
Ion Ratio Lower Upper
83 100
85 0.0 43.5 80.9#
131 0.0 7.1 10.7#

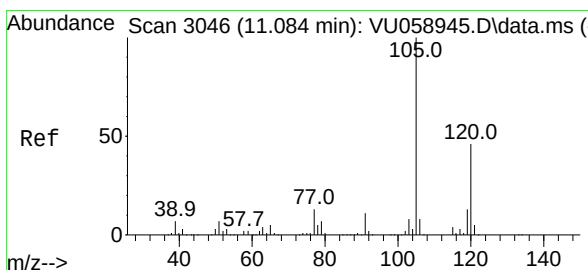
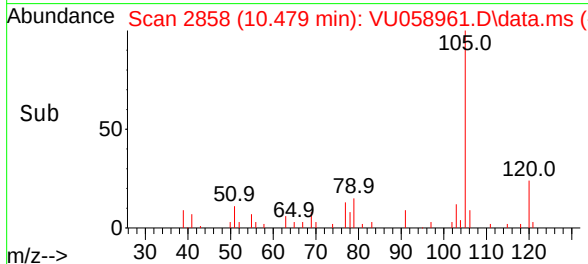
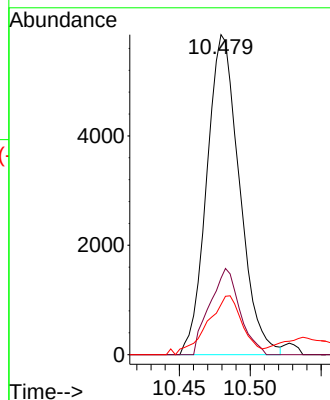
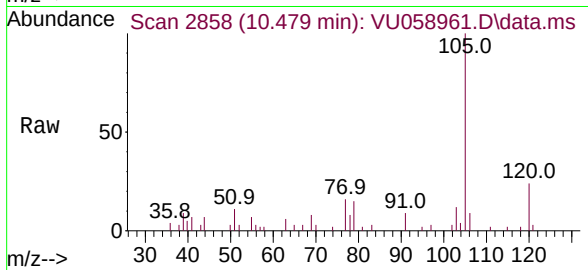




#61
Isopropylbenzene
Concen: 27.935 ug/L
RT: 10.479 min Scan# 2858
Delta R.T. -0.000 min
Lab File: VU058961.D
Acq: 23 May 2024 20:22

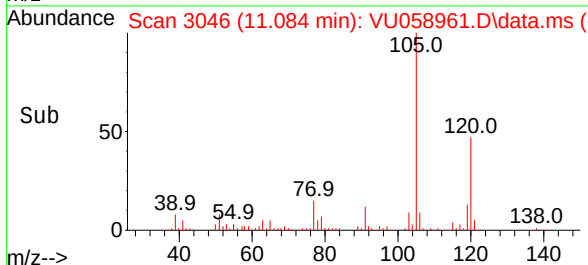
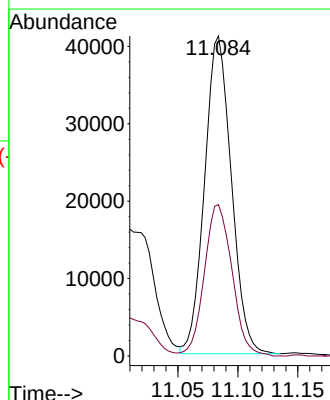
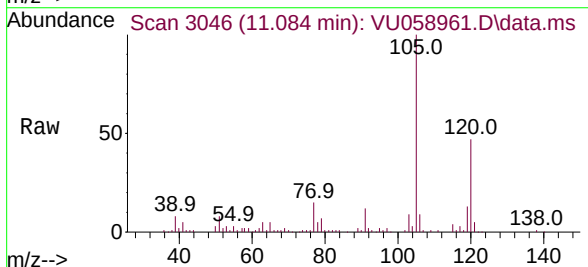
Instrument :
MSVOA_U
ClientSampleId :

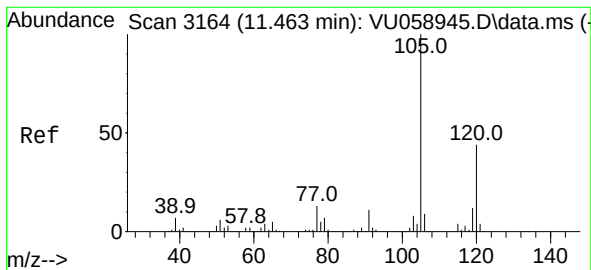
Tgt Ion:105 Resp: 9383
Ion Ratio Lower Upper
105 100
120 24.7 20.0 30.0
77 19.4 13.4 20.0



#62
1,3,5-Trimethylbenzene
Concen: 240.858 ug/L
RT: 11.084 min Scan# 3046
Delta R.T. -0.000 min
Lab File: VU058961.D
Acq: 23 May 2024 20:22

Tgt Ion:105 Resp: 63736
Ion Ratio Lower Upper
105 100
120 49.3 36.9 55.3





#63

1,2,4-Trimethylbenzene

Concen: 668.036 ug/L

RT: 11.463 min Scan# 3164

Delta R.T. -0.000 min

Lab File: VU058961.D

Acq: 23 May 2024 20:22

Instrument :

MSVOA_U

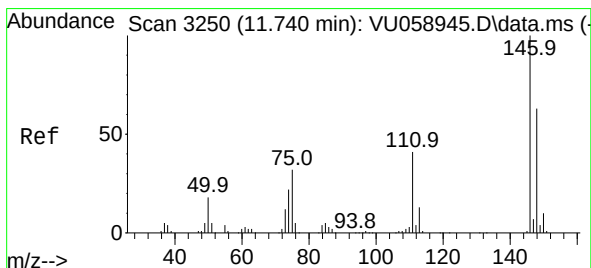
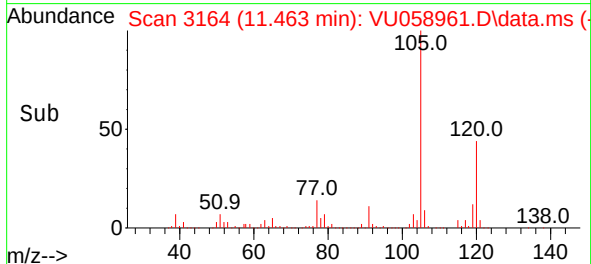
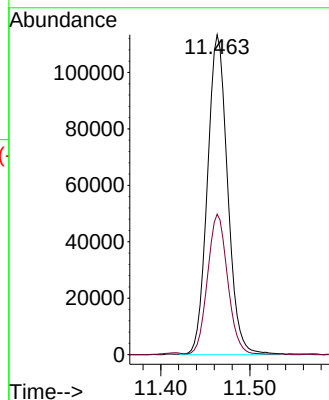
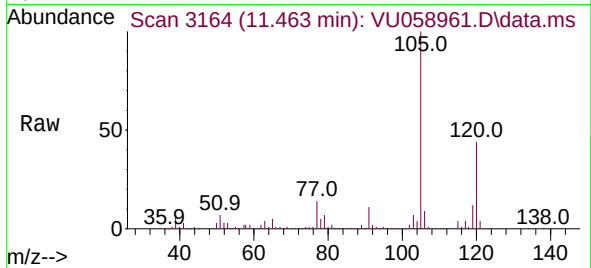
ClientSampleId :

Tgt Ion:105 Resp: 178278

Ion Ratio Lower Upper

105 100

120 43.4 35.3 52.9



#64

1,3-Dichlorobenzene

Concen: 2.328 ug/L

RT: 11.749 min Scan# 3253

Delta R.T. 0.010 min

Lab File: VU058961.D

Acq: 23 May 2024 20:22

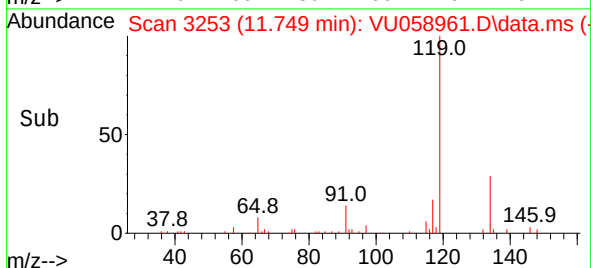
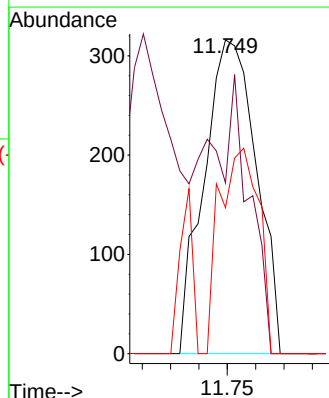
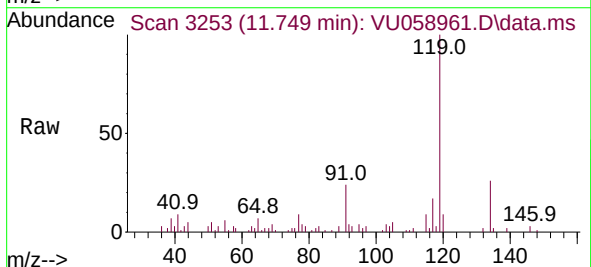
Tgt Ion:146 Resp: 406

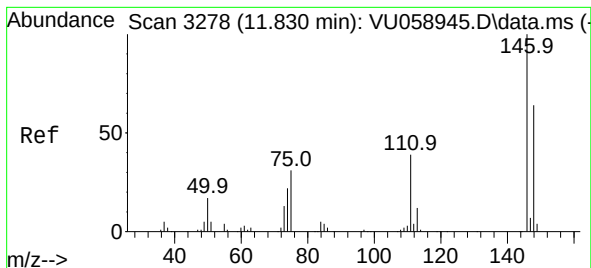
Ion Ratio Lower Upper

146 100

111 54.4 28.6 53.0#

148 46.5 44.2 82.2





#65

1,4-Dichlorobenzene

Concen: 4.190 ug/L

RT: 11.836 min Scan# 31

Delta R.T. 0.006 min

Lab File: VU058961.D

Acq: 23 May 2024 20:22

Instrument :

MSVOA_U

ClientSampleId :

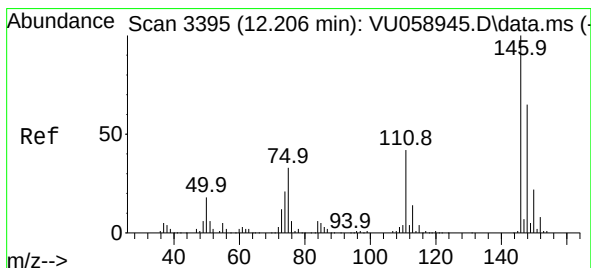
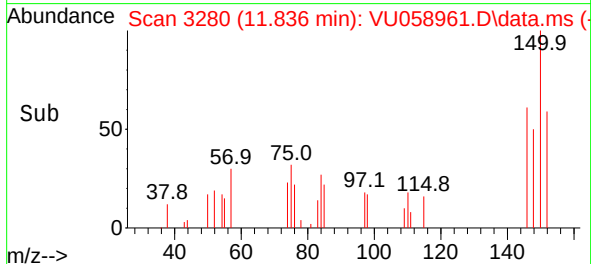
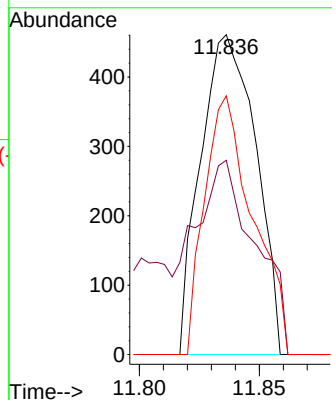
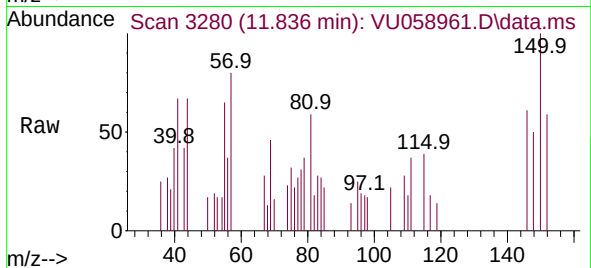
Tgt Ion:146 Resp: 738

Ion Ratio Lower Upper

146 100

111 60.7 27.3 50.7#

148 80.9 44.7 83.1



#67

1,2-Dichlorobenzene

Concen: 1.877 ug/L

RT: 12.212 min Scan# 3397

Delta R.T. 0.006 min

Lab File: VU058961.D

Acq: 23 May 2024 20:22

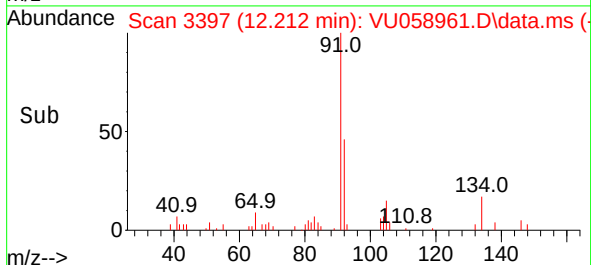
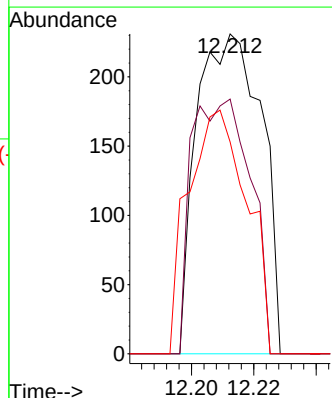
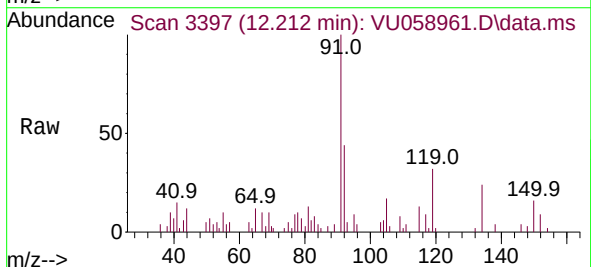
Tgt Ion:146 Resp: 333

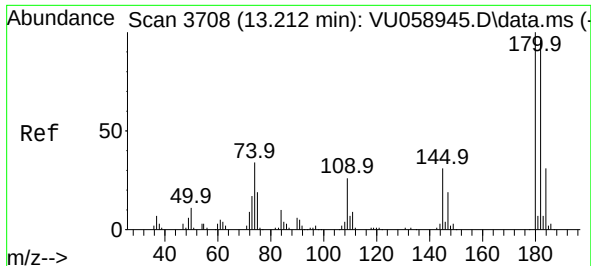
Ion Ratio Lower Upper

146 100

111 79.7 34.1 51.1#

148 66.2 52.2 78.4





#69

1,3,5-Trichlorobenzene

Concen: 3.249 ug/L

RT: 13.222 min Scan# 3711

Delta R.T. 0.010 min

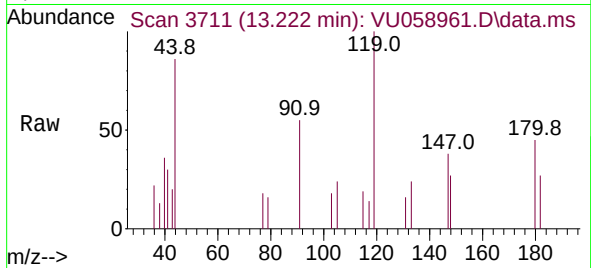
Lab File: VU058961.D

Acq: 23 May 2024 20:22

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 399

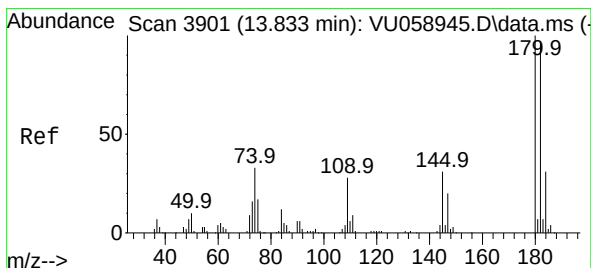
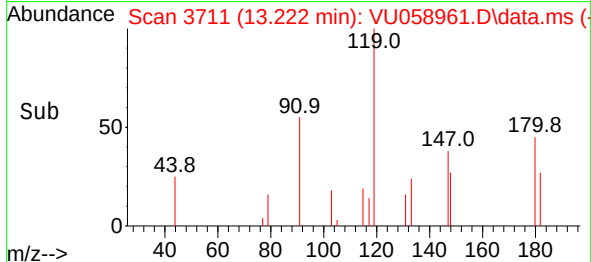
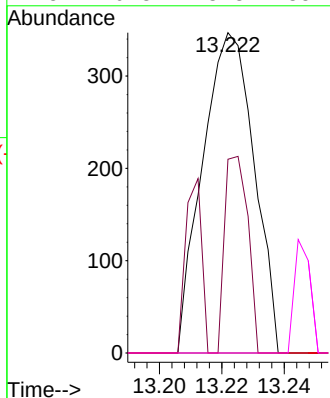
Ion Ratio Lower Upper

180 100

182 27.6 75.7 113.5#

184 0.0 24.3 36.5#

145 10.8 23.8 35.6#



#70

1,2,4-trichlorobenzene

Concen: 3.223 ug/L

RT: 13.843 min Scan# 3904

Delta R.T. 0.010 min

Lab File: VU058961.D

Acq: 23 May 2024 20:22

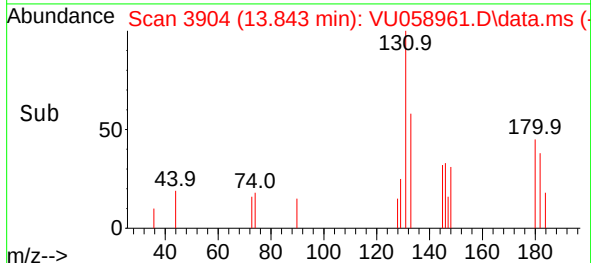
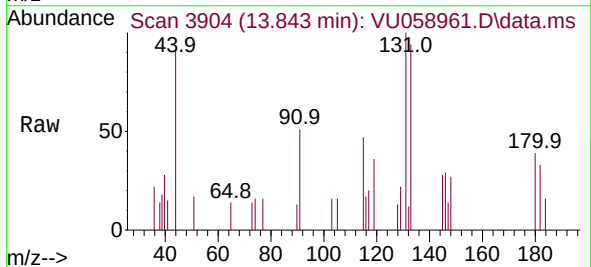
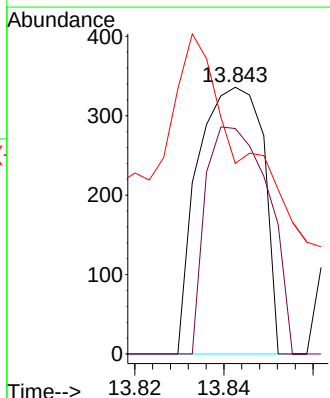
Tgt Ion:180 Resp: 341

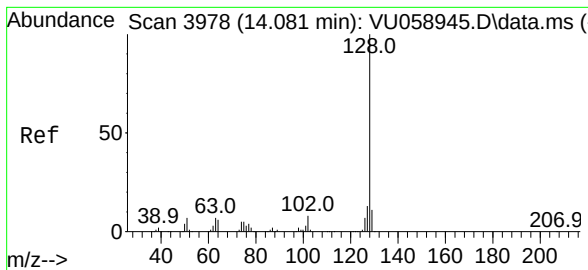
Ion Ratio Lower Upper

180 100

182 81.8 78.6 117.8

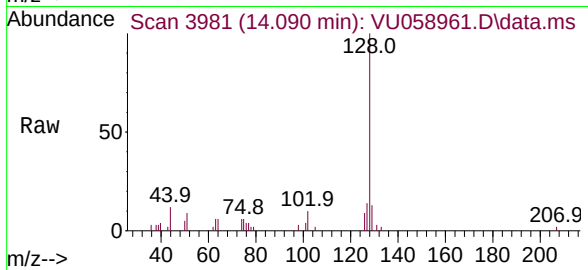
145 51.6 24.6 37.0#





#71
Naphthalene
Concen: 38.896 ug/L
RT: 14.090 min Scan# 3981
Delta R.T. 0.010 min
Lab File: VU058961.D
Acq: 23 May 2024 20:22

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:	128	Resp:	12002
Ion	Ratio	Lower	Upper
128	100		
127	14.4	10.8	16.2
129	11.4	8.8	13.2

