

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020223\
 Data File : VU052922.D
 Acq On : 02 Feb 2023 13:51
 Operator : JC/MD
 Sample : 01381-27
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 03 00:25:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM012623WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Feb 03 00:24:34 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.244	114	245302	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	245857	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	130759	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	77229	43.742	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.480%
7) Chloroethane-d5	1.909	69	71077	48.857	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.720%
11) 1,1-Dichloroethene-d2	2.556	63	119406	34.003	ug/L	-0.01
Spiked Amount	50.000	Range	60 - 125	Recovery	=	68.000%
21) 2-Butanone-d5	4.636	46	83345	76.415	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	76.420%
24) Chloroform-d	5.057	84	169343	44.942	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.880%
26) 1,2-Dichloroethane-d4	5.697	65	117499	48.837	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.680%
32) Benzene-d6	5.719	84	344934	45.922	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.840%
36) 1,2-Dichloropropane-d6	6.687	67	101034	45.863	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.720%
41) Toluene-d8	7.893	98	323291	47.267	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.540%
43) trans-1,3-Dichloroprop...	8.179	79	51309	46.469	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.940%
47) 2-Hexanone-d5	8.655	63	61612	79.596	ug/L	0.03
Spiked Amount	100.000	Range	45 - 130	Recovery	=	79.600%
56) 1,1,2,2-Tetrachloroeth...	10.761	84	135401	41.600	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	83.200%
66) 1,2-Dichlorobenzene-d4	12.192	152	125966	49.613	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.220%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.382	85	42184	18.365	ug/L	99
3) Chloromethane	1.517	50	84121	44.404	ug/L	99
6) Bromomethane	1.855	94	34526	26.122	ug/L	99
9) Trichlorofluoromethane	2.118	101	115583	32.926	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.568	101	75055	37.933	ug/L	97
12) 1,1-Dichloroethene	2.552	96	1050	0.579	ug/L #	1
13) Acetone	2.636	43	590370	443.191	ug/L	98
15) Methyl Acetate	2.948	43	158161	88.121	ug/L	100
16) Methylene chloride	3.041	84	49101	22.746	ug/L	93
18) Methyl tert-butyl Ether	3.359	73	625917	108.546	ug/L	99
22) 2-Butanone	4.713	43	85151	59.804	ug/L	98
25) Chloroform	5.083	83	6884	1.783	ug/L	97
27) 1,2-Dichloroethane	5.790	62	225294	73.709	ug/L	99
29) Cyclohexane	5.382	56	54871	18.834	ug/L	98
34) Trichloroethene	6.536	95	81830	38.469	ug/L	95
35) Methylcyclohexane	6.758	83	204901	60.861	ug/L	99
37) 1,2-Dichloropropane	6.755	63	2409	1.171	ug/L #	85
40) 4-Methyl-2-pentanone	7.816	43	291449	120.232	ug/L	100
42) Toluene	7.967	91	533294	62.176	ug/L	98

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

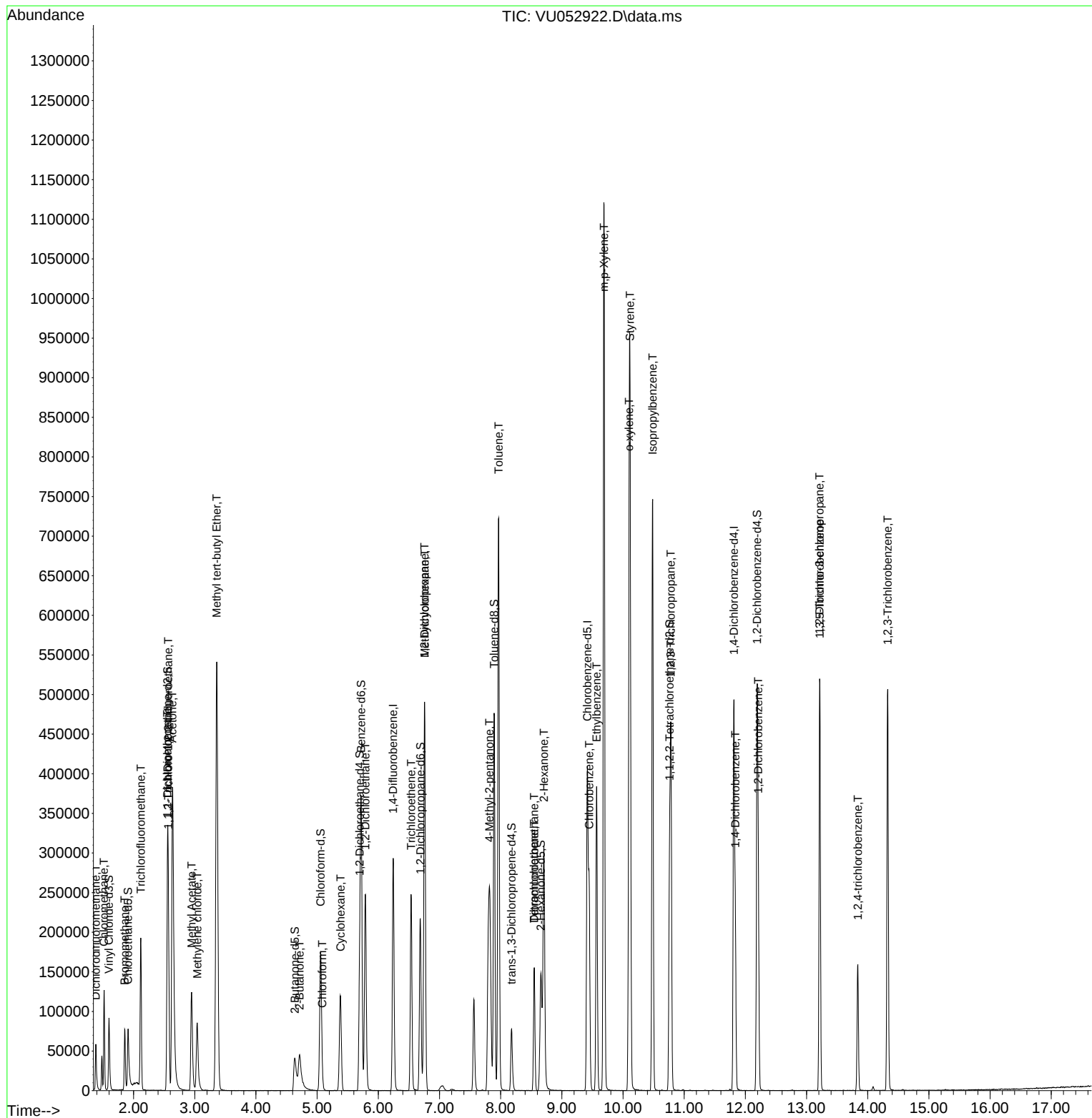
46) Tetrachloroethene	8.549	164	35024	19.121	ug/L	93
48) 2-Hexanone	8.706	43	237661	115.892	ug/L	99
49) Dibromochloromethane	8.549	129	33134	13.168	ug/L #	11
51) Chlorobenzene	9.446	112	147662	25.023	ug/L	98
52) Ethylbenzene	9.568	91	276905	30.209	ug/L	100
53) m,p-Xylene	9.690	106	329214	88.718	ug/L	100
54) o-xylene	10.099	106	149718	42.263	ug/L	93
55) Styrene	10.115	104	381696	62.790	ug/L	97
60) 1,2,3-Trichloropropane	10.780	75	15602	6.151	ug/L #	1
61) Isopropylbenzene	10.485	105	491353	58.182	ug/L	99
65) 1,4-Dichlorobenzene	11.835	146	87257	19.782	ug/L	97
67) 1,2-Dichlorobenzene	12.211	146	95098	22.066	ug/L	98
68) 1,2-Dibromo-3-chloropr...	13.214	75	25455	35.012	ug/L #	1
69) 1,3,5-Trichlorobenzene	13.218	180	163668	51.887	ug/L	99
70) 1,2,4-trichlorobenzene	13.838	180	51719	19.557	ug/L	99
72) 1,2,3-Trichlorobenzene	14.327	180	161416	57.755	ug/L	98

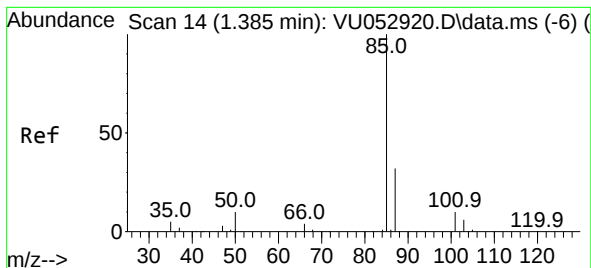
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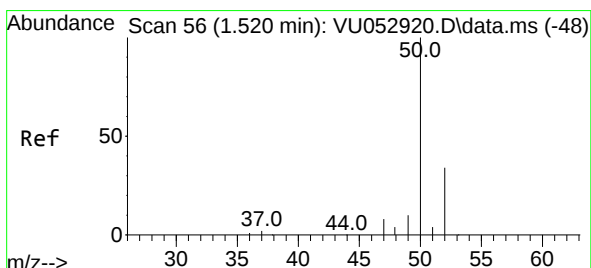
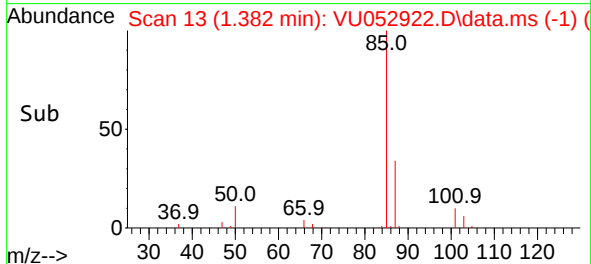
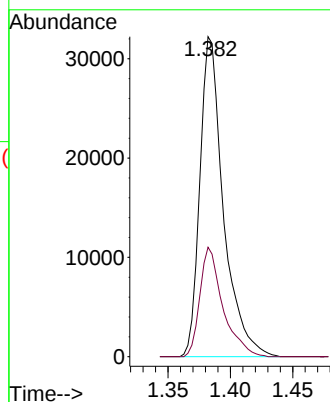
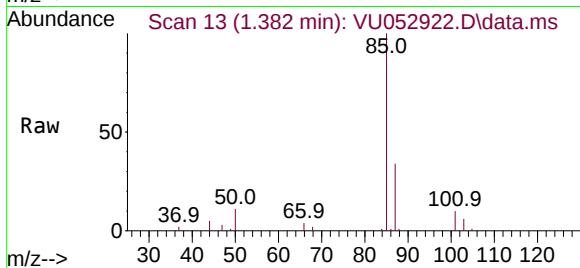




#2
Dichlorodifluoromethane
Concen: 18.365 ug/L
RT: 1.382 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

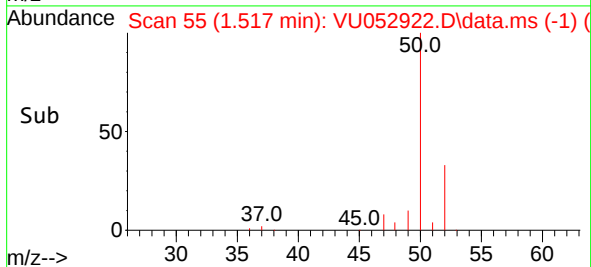
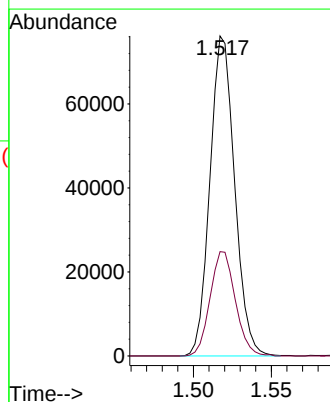
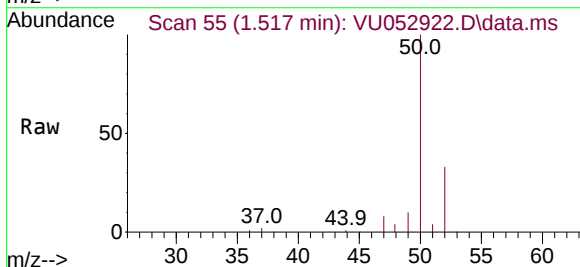
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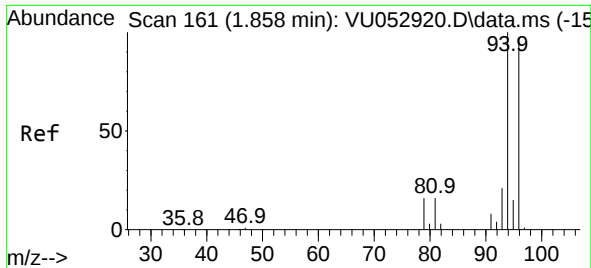
Tgt Ion: 85 Resp: 42184
Ion Ratio Lower Upper
85 100
87 33.4 26.4 39.6



#3
Chloromethane
Concen: 44.404 ug/L
RT: 1.517 min Scan# 55
Delta R.T. -0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion: 50 Resp: 84121
Ion Ratio Lower Upper
50 100
52 32.6 23.4 43.4

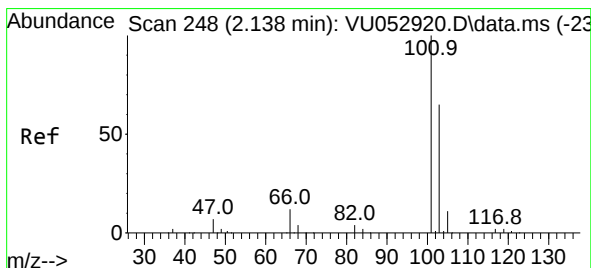
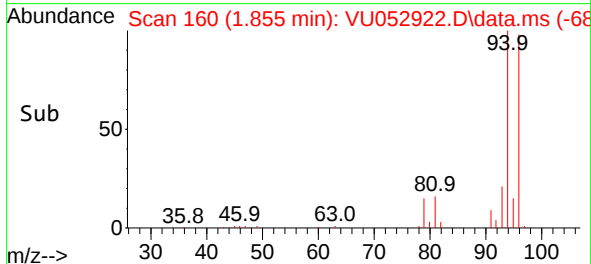
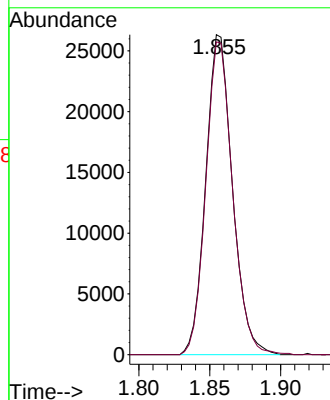
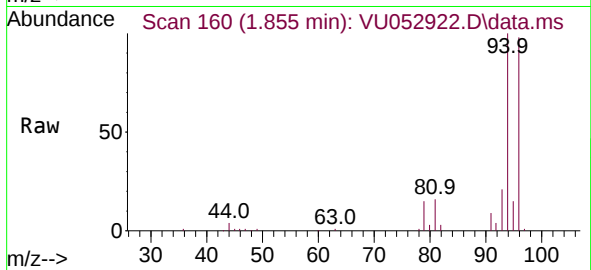




#6
Bromomethane
Concen: 26.122 ug/L
RT: 1.855 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

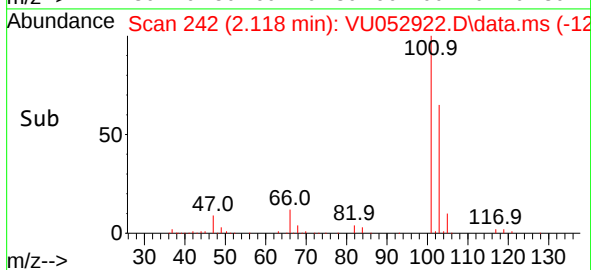
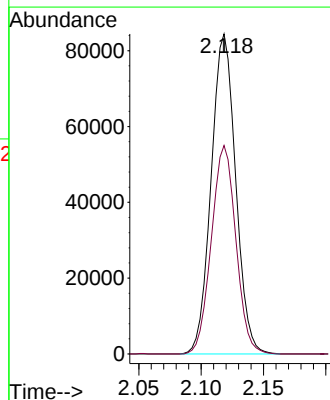
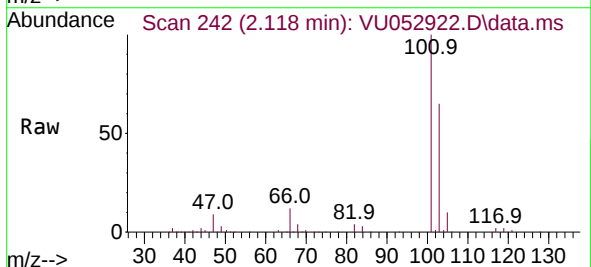
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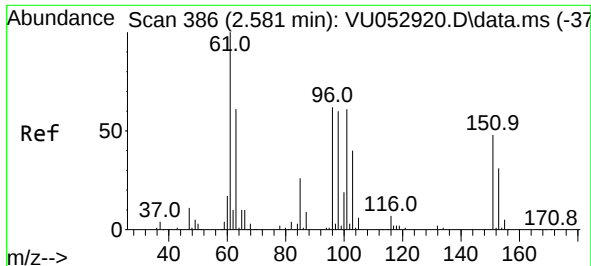
Tgt Ion: 94 Resp: 34526
Ion Ratio Lower Upper
94 100
96 97.8 67.8 125.8



#9
Trichlorofluoromethane
Concen: 32.926 ug/L
RT: 2.118 min Scan# 242
Delta R.T. -0.019 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion:101 Resp: 115583
Ion Ratio Lower Upper
101 100
103 65.1 52.0 78.0

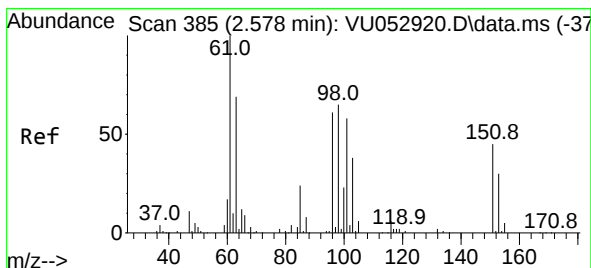
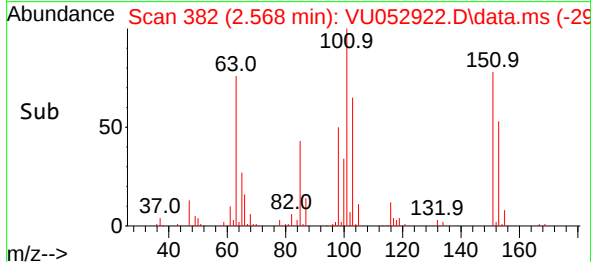
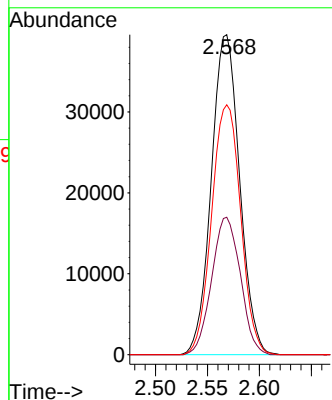
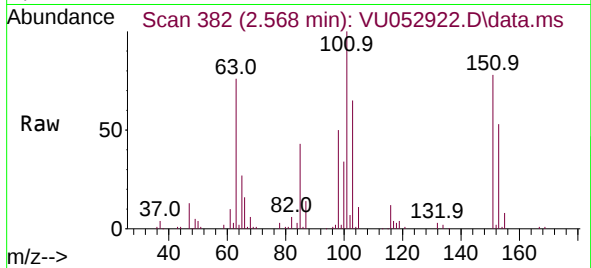




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 37.933 ug/L
RT: 2.568 min Scan# 311
Delta R.T. -0.013 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

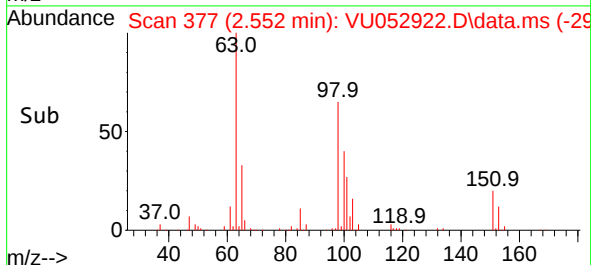
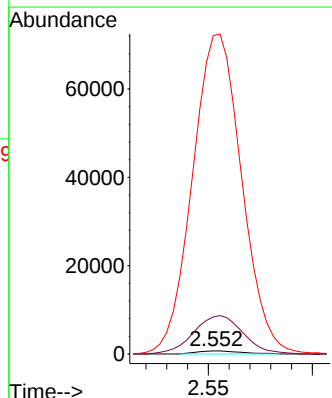
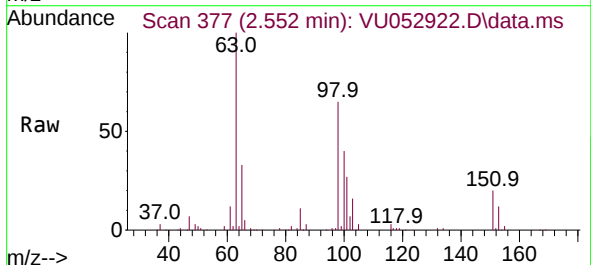
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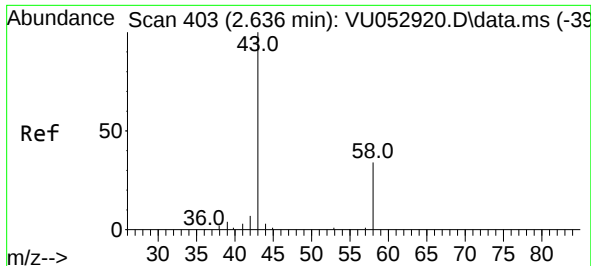
Tgt Ion:101 Resp: 75055
Ion Ratio Lower Upper
101 100
85 43.4 32.9 49.3
151 80.0 62.6 94.0



#12
1,1-Dichloroethene
Concen: 0.579 ug/L
RT: 2.552 min Scan# 377
Delta R.T. -0.026 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion: 96 Resp: 1050
Ion Ratio Lower Upper
96 100
61 1196.9 114.3 212.3#
63 10290.4 80.6 149.6#

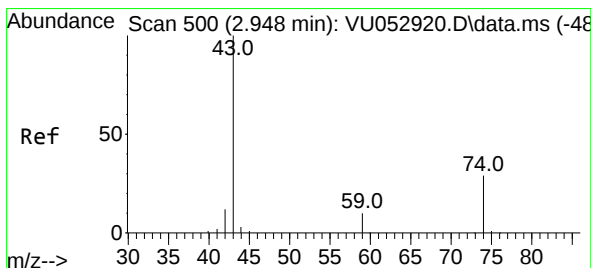
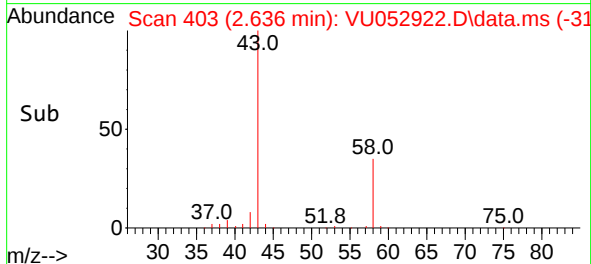
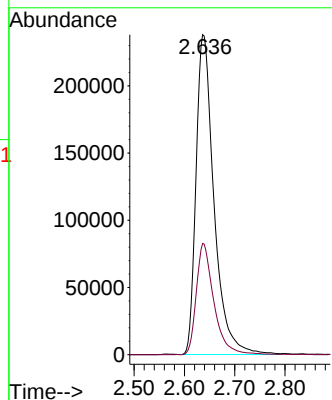
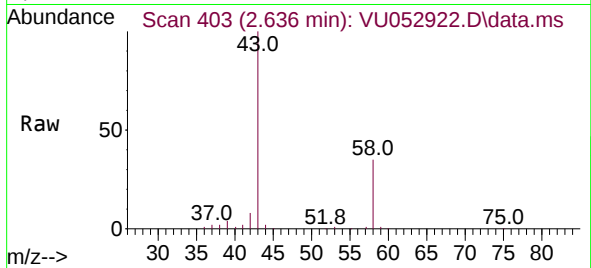




#13
Acetone
Concen: 443.191 ug/L
RT: 2.636 min Scan# 403
Delta R.T. -0.000 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

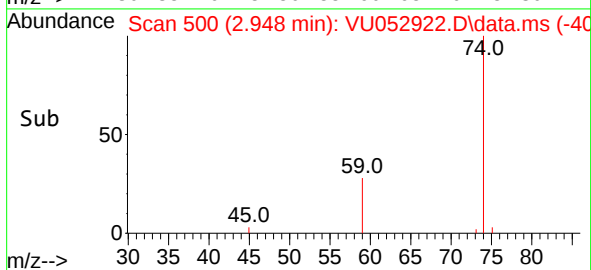
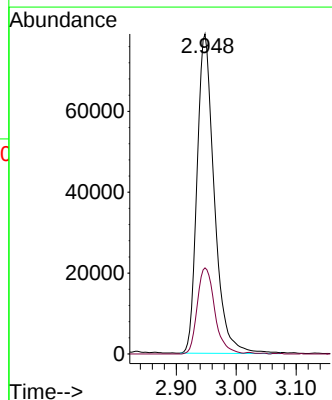
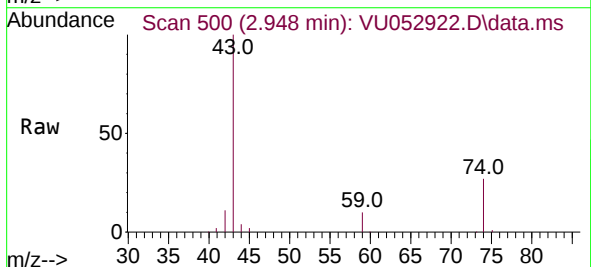
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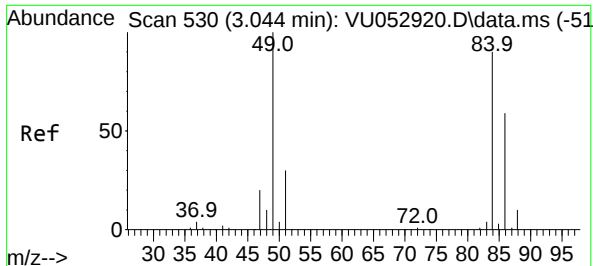
Tgt Ion: 43 Resp: 590370
Ion Ratio Lower Upper
43 100
58 33.9 0.0 70.2



#15
Methyl Acetate
Concen: 88.121 ug/L
RT: 2.948 min Scan# 500
Delta R.T. -0.000 min
Lab File: VU052922.D
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Tgt Ion: 43 Resp: 158161
Ion Ratio Lower Upper
43 100
74 27.4 22.0 33.0

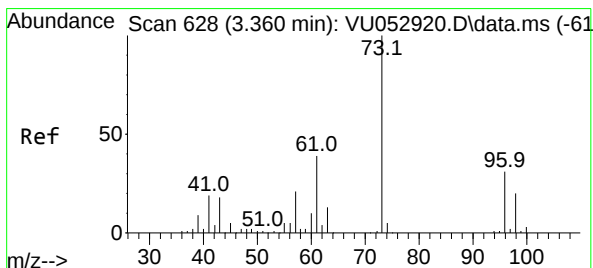
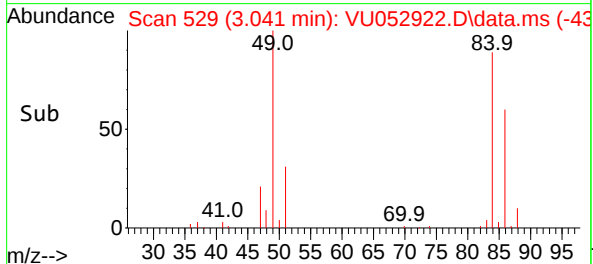
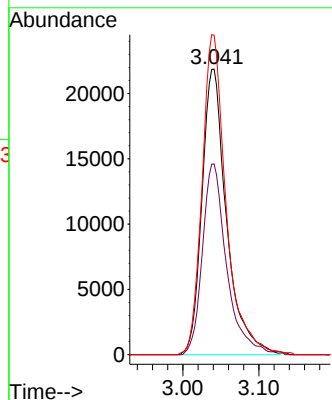
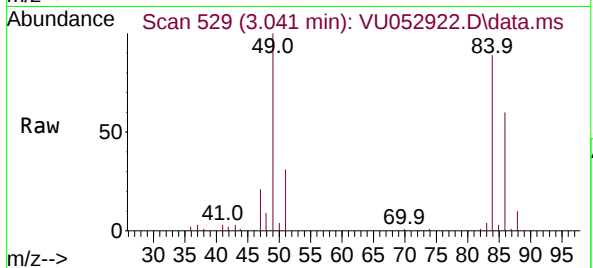




#16
Methylene chloride
Concen: 22.746 ug/L
RT: 3.041 min Scan# 51
Delta R.T. -0.003 min
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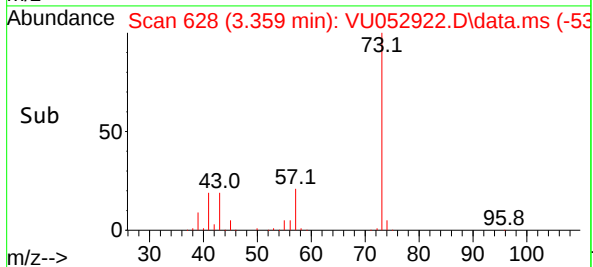
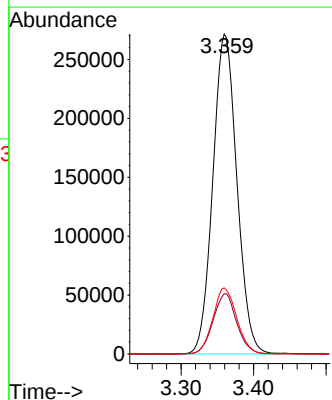
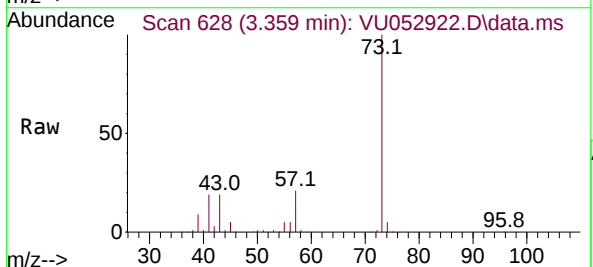
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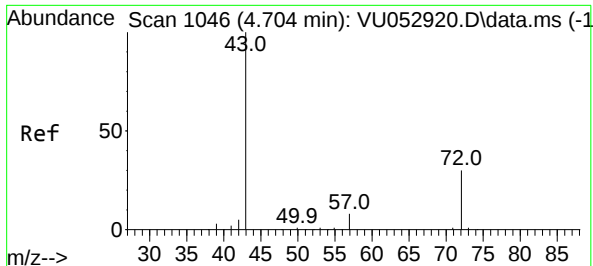
Tgt Ion: 84 Resp: 49101
Ion Ratio Lower Upper
84 100
86 66.8 43.4 80.6
49 111.9 72.4 134.5



#18
Methyl tert-butyl Ether
Concen: 108.546 ug/L
RT: 3.359 min Scan# 628
Delta R.T. -0.000 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion: 73 Resp: 625917
Ion Ratio Lower Upper
73 100
43 18.5 14.2 21.2
57 20.5 16.3 24.5





#22

2-Butanone

Concen: 59.804 ug/L

RT: 4.713 min Scan# 1049

Delta R.T. 0.010 min

Lab File: VU052922.D

Acq: 02 Feb 2023 13:51

Instrument :

MSVOA_U

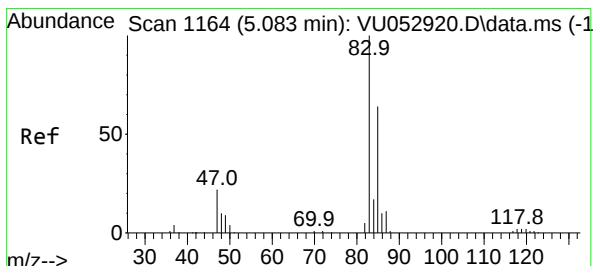
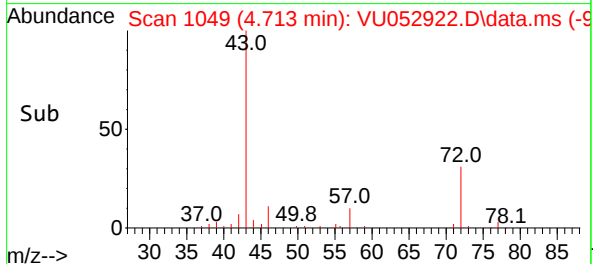
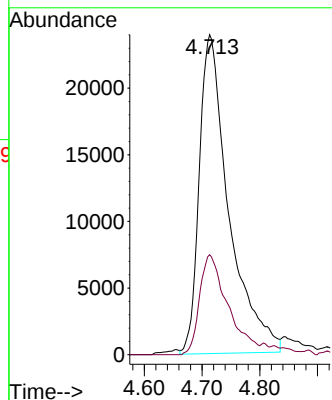
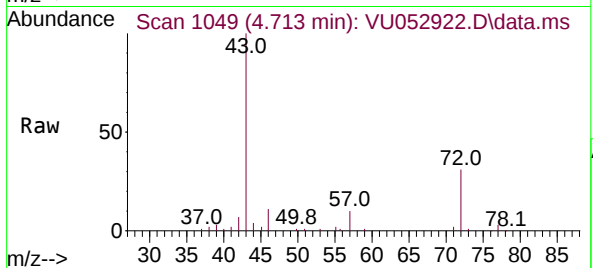
ClientSampleId :

Tgt Ion: 43 Resp: 85151

Ion Ratio Lower Upper

43 100

72 30.0 15.5 46.5



#25

Chloroform

Concen: 1.783 ug/L

RT: 5.083 min Scan# 1164

Delta R.T. -0.000 min

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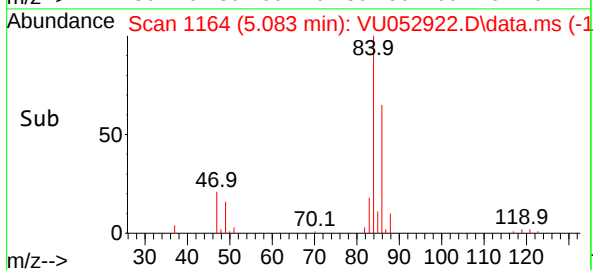
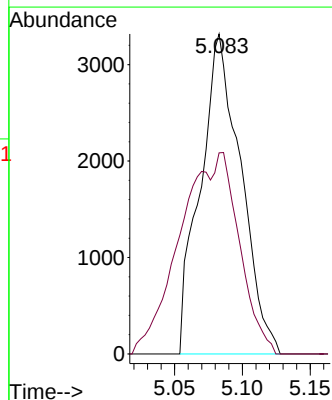
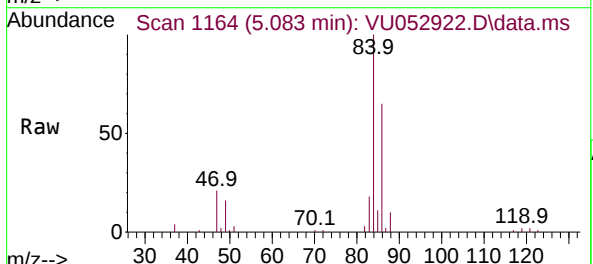
Acq: 02 Feb 2023 13:51

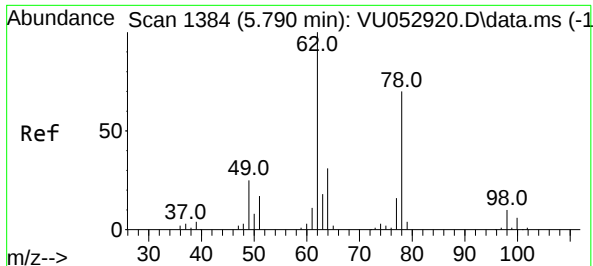
Tgt Ion: 83 Resp: 6884

Ion Ratio Lower Upper

83 100

85 62.8 45.8 85.0





#27

1,2-Dichloroethane

Concen: 73.709 ug/L

RT: 5.790 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU052922.D

Acq: 02 Feb 2023 13:51

Instrument :

MSVOA_U

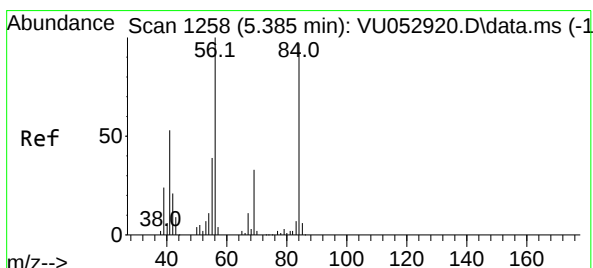
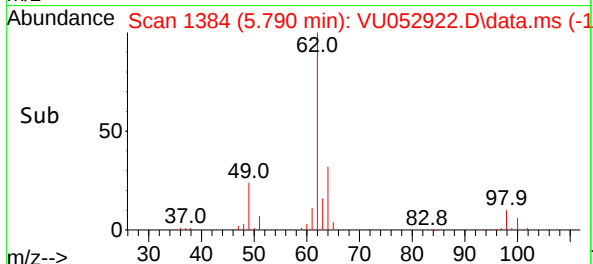
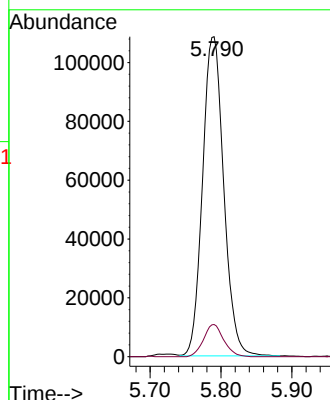
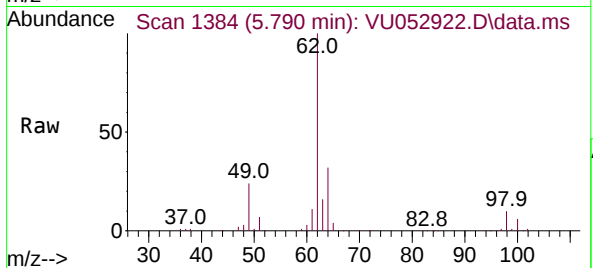
ClientSampleId :

Tgt Ion: 62 Resp: 225294

Ion Ratio Lower Upper

62 100

98 10.0 7.6 11.4



#29

Cyclohexane

Concen: 18.834 ug/L

RT: 5.382 min Scan# 1257

Delta R.T. -0.003 min

Lab File: VU052922.D

Acq: 02 Feb 2023 13:51

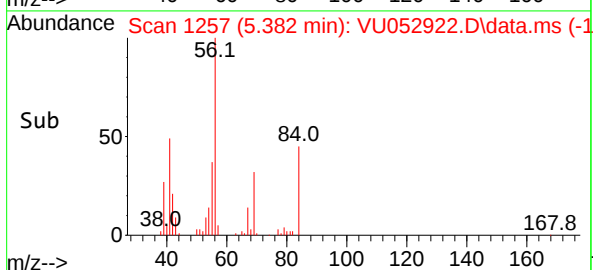
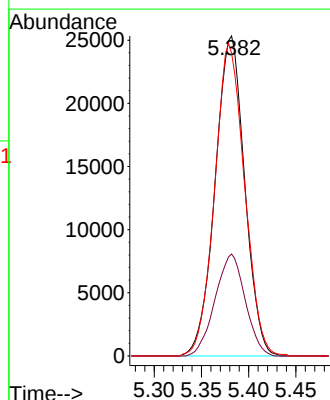
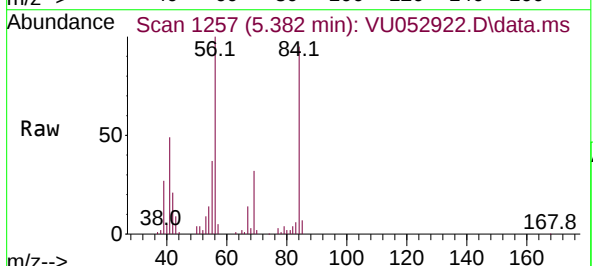
Tgt Ion: 56 Resp: 54871

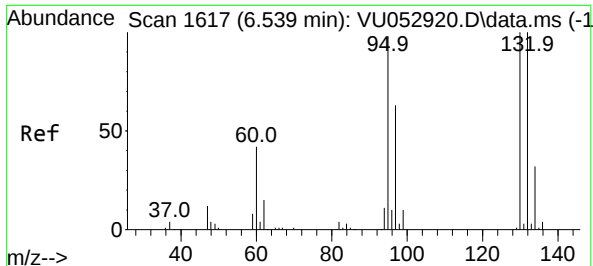
Ion Ratio Lower Upper

56 100

69 32.5 26.6 40.0

84 98.7 77.0 115.4





#34

Trichloroethene

Concen: 38.469 ug/L

RT: 6.536 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU052922.D

Acq: 02 Feb 2023 13:51

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 81830

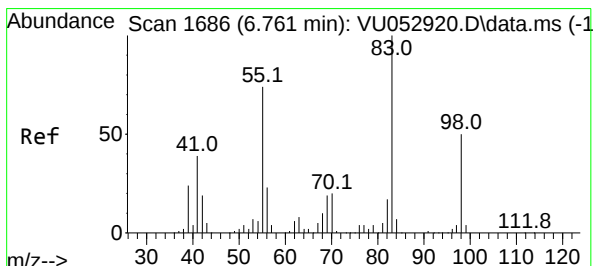
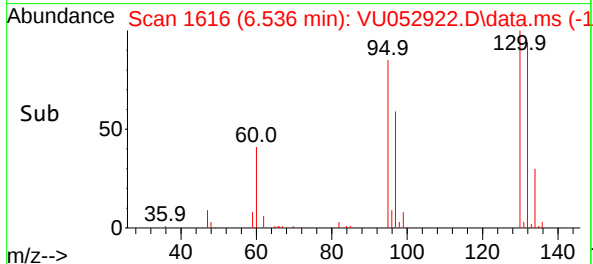
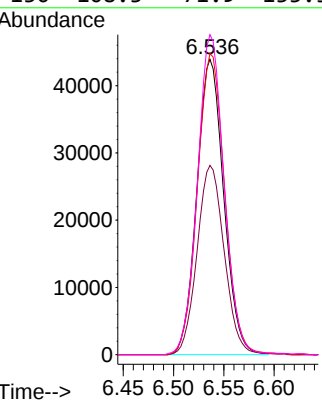
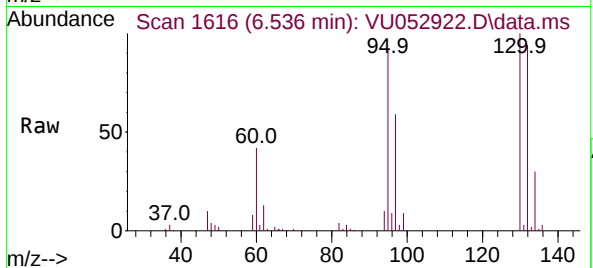
Ion Ratio Lower Upper

95 100

97 64.1 44.5 82.7

132 101.9 66.8 124.0

130 108.3 71.9 133.5



#35

Methylcyclohexane

Concen: 60.861 ug/L

RT: 6.758 min Scan# 1685

Delta R.T. -0.003 min

Lab File: VU052922.D

Acq: 02 Feb 2023 13:51

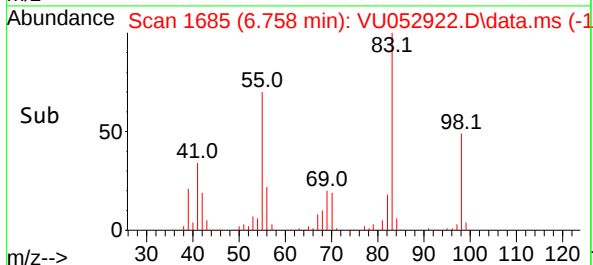
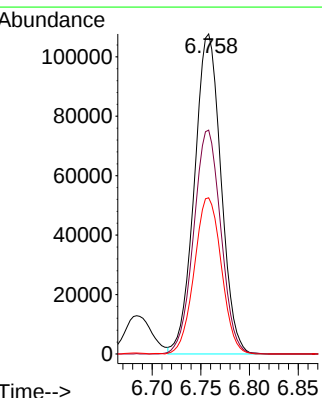
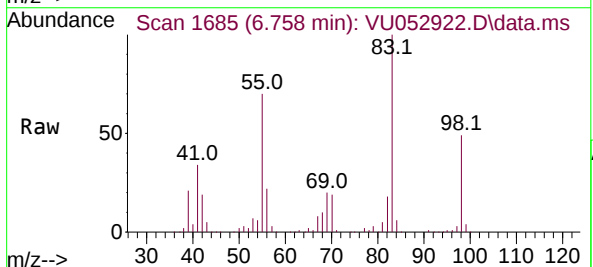
Tgt Ion: 83 Resp: 204901

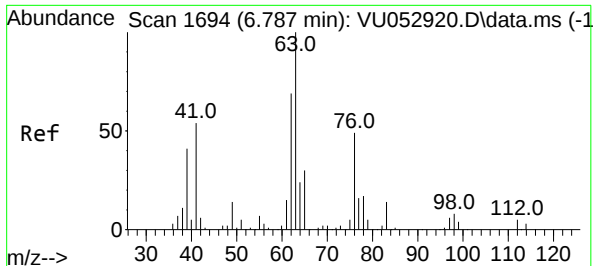
Ion Ratio Lower Upper

83 100

55 71.4 57.1 85.7

98 49.7 38.9 58.3





#37

1,2-Dichloropropane

Concen: 1.171 ug/L

RT: 6.755 min Scan# 1

Delta R.T. -0.032 min

Lab File: VU052922.D

Acq: 02 Feb 2023 13:51

Instrument :

MSVOA_U

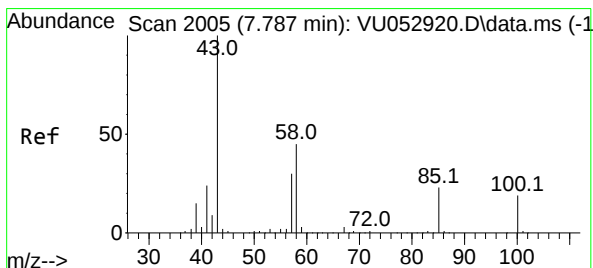
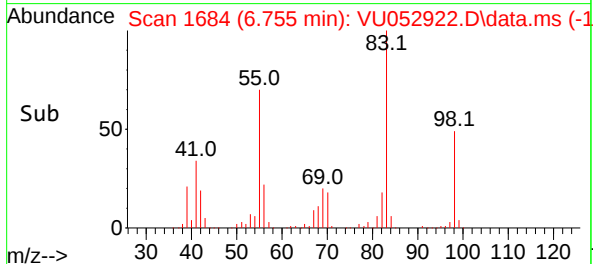
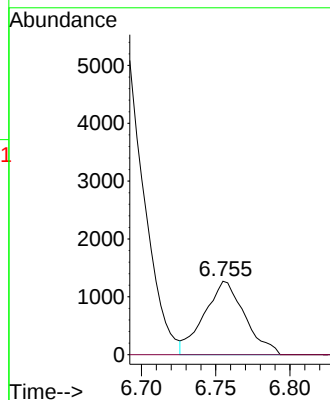
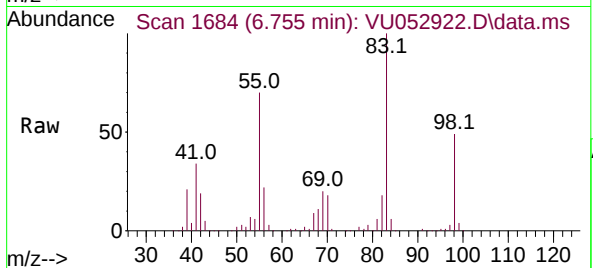
ClientSampleId :

Tgt Ion: 63 Resp: 2409

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.8#



#40

4-Methyl-2-pentanone

Concen: 120.232 ug/L

RT: 7.816 min Scan# 2014

Delta R.T. 0.029 min

Lab File: VU052922.D

Acq: 02 Feb 2023 13:51

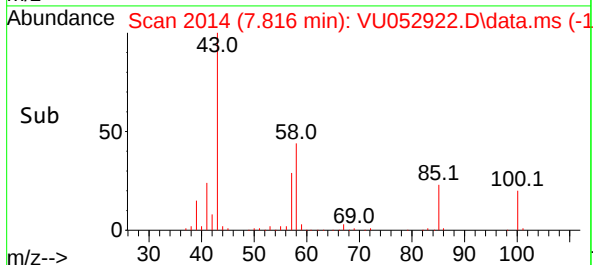
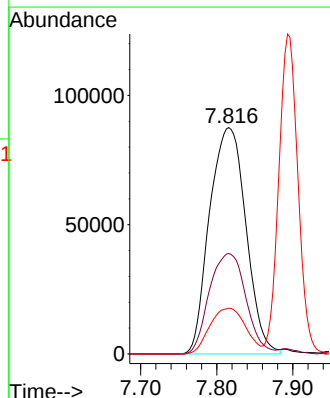
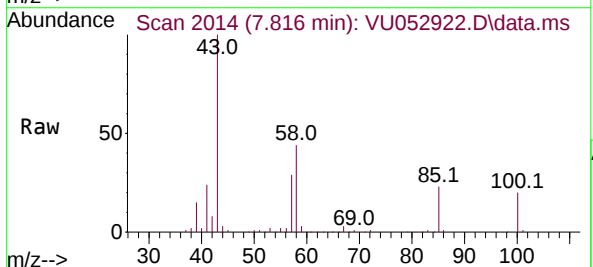
Tgt Ion: 43 Resp: 291449

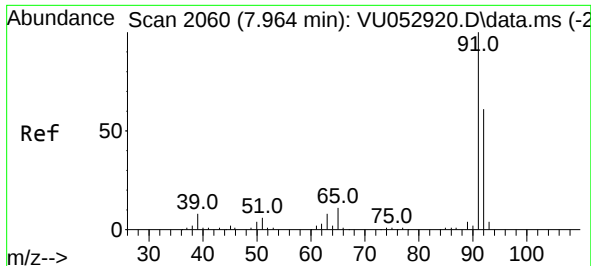
Ion Ratio Lower Upper

43 100

58 44.4 35.4 53.2

100 19.9 16.0 24.0





#42

Toluene

Concen: 62.176 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. 0.003 min

Lab File: VU052922.D

Acq: 02 Feb 2023 13:51

Instrument :

MSVOA_U

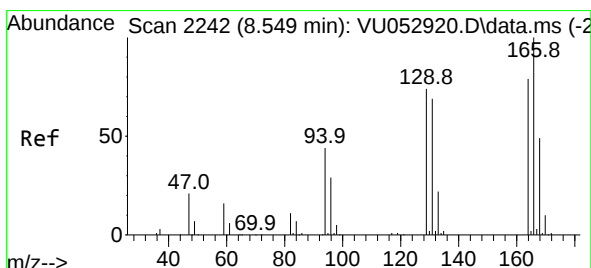
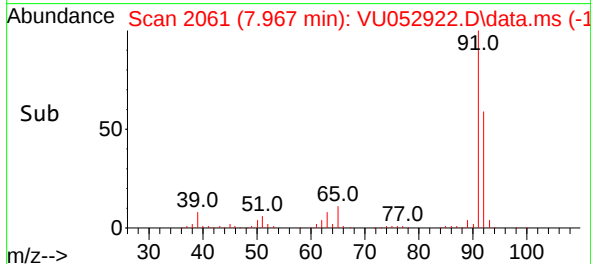
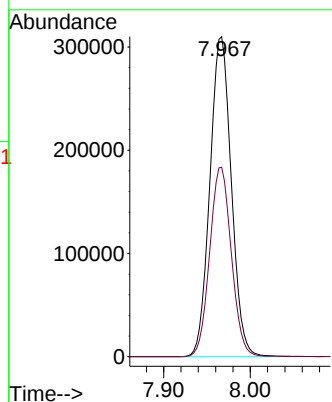
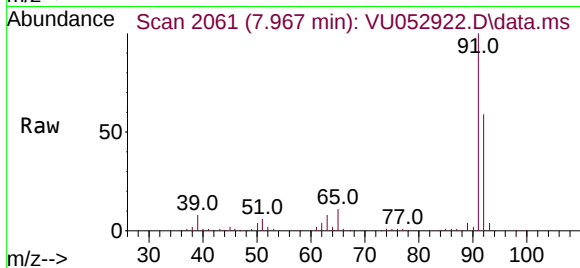
ClientSampleId :

Tgt Ion: 91 Resp: 533294

Ion Ratio Lower Upper

91 100

92 59.2 42.6 79.0



#46

Tetrachloroethene

Concen: 19.121 ug/L

RT: 8.549 min Scan# 2242

Delta R.T. -0.000 min

Lab File: VU052922.D

Acq: 02 Feb 2023 13:51

Tgt Ion:164 Resp: 35024

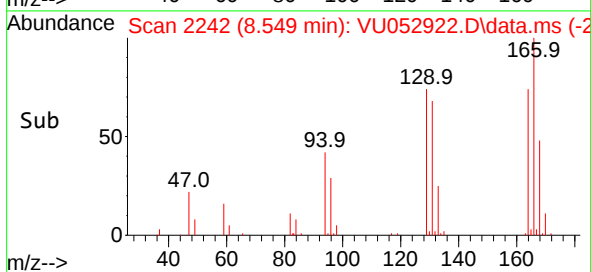
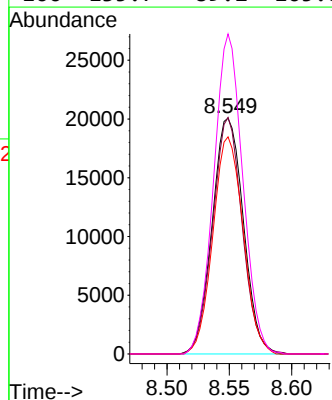
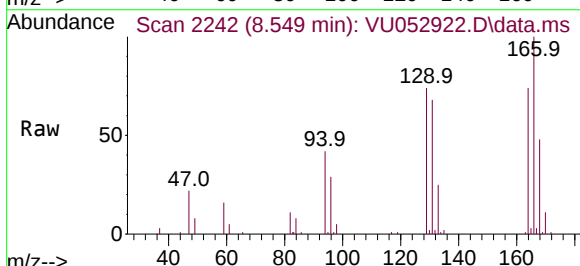
Ion Ratio Lower Upper

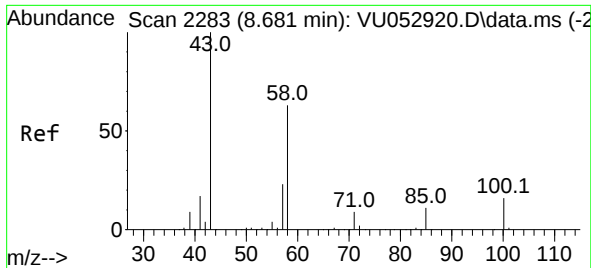
164 100

129 100.3 64.8 120.3

131 92.0 61.2 113.6

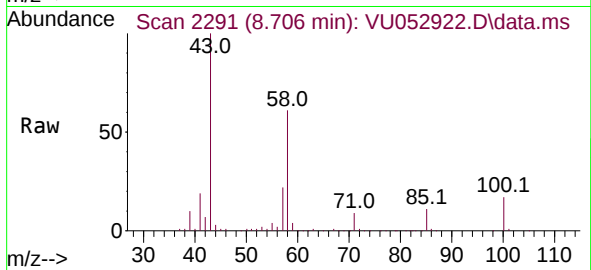
166 135.7 89.2 165.8



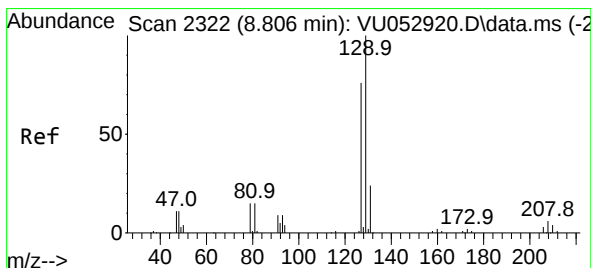
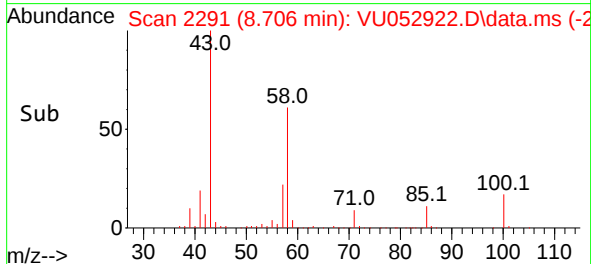
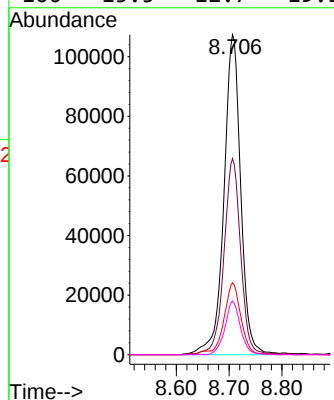


#48
2-Hexanone
Concen: 115.892 ug/L
RT: 8.706 min Scan# 21
Delta R.T. 0.026 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Instrument :
MSVOA_U
ClientSampleId :

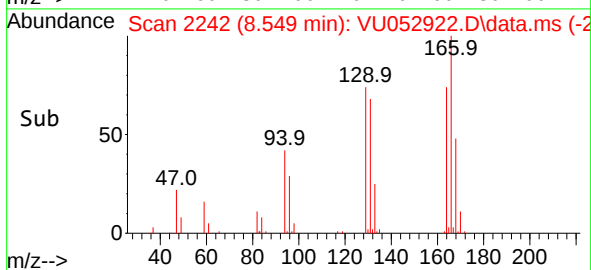
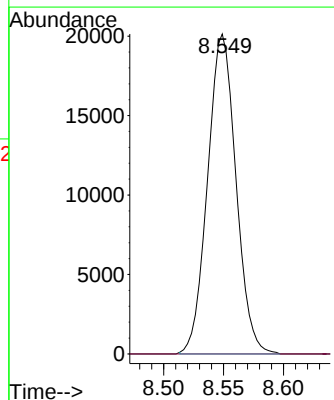
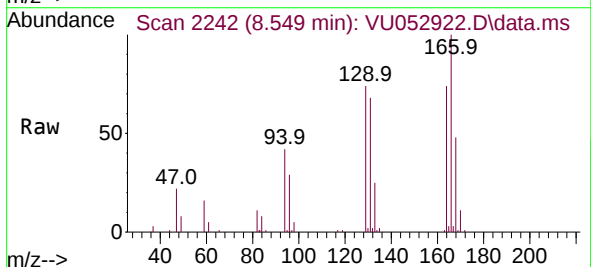


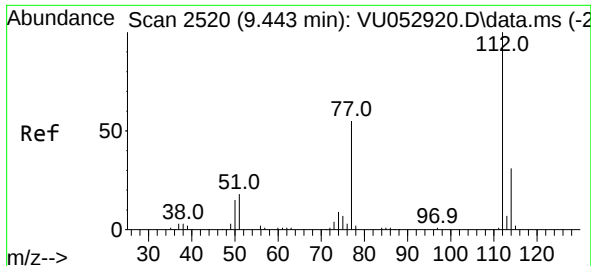
Tgt	Ion: 43	Resp:	237661
Ion	Ratio	Lower	Upper
43	100		
58	60.7	48.0	72.0
57	22.1	16.8	25.2
100	15.5	12.7	19.1



#49
Dibromochloromethane
Concen: 13.168 ug/L
RT: 8.549 min Scan# 2242
Delta R.T. -0.257 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion:129	Resp: 33134		
Ion Ratio	Lower	Upper	
129 100			
127 0.0	53.2	98.8#	

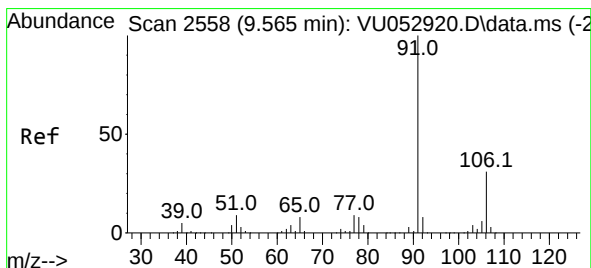
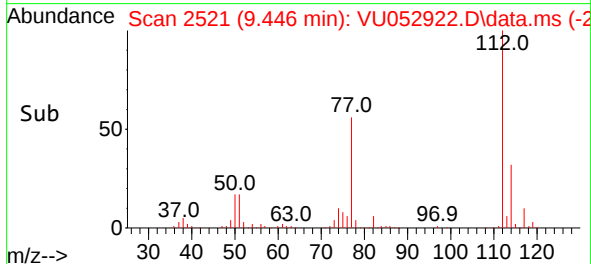
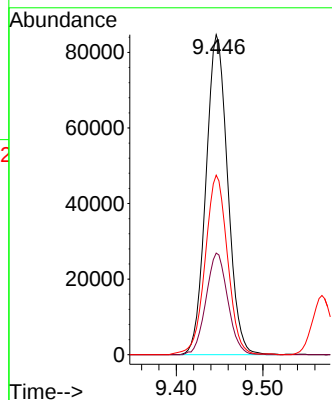
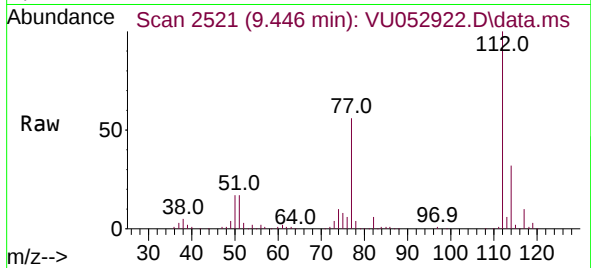




#51
Chlorobenzene
Concen: 25.023 ug/L
RT: 9.446 min Scan# 2521
Delta R.T. 0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

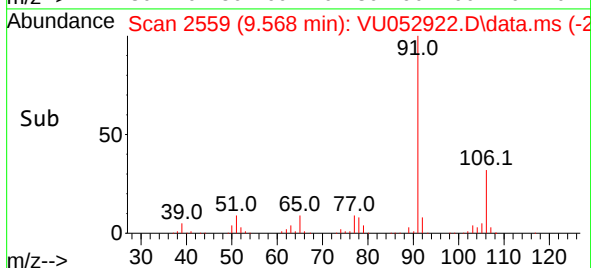
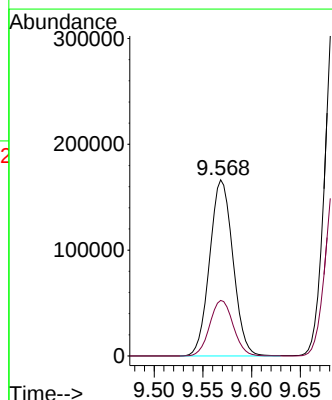
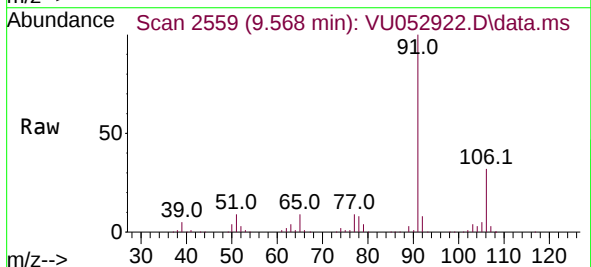
Instrument :
MSVOA_U
ClientSampleId :

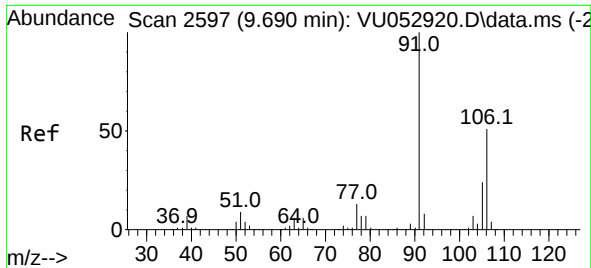
Tgt Ion:112 Resp: 147662
Ion Ratio Lower Upper
112 100
114 31.7 22.8 42.4
77 56.1 45.9 68.9



#52
Ethylbenzene
Concen: 30.209 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. 0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion: 91 Resp: 276905
Ion Ratio Lower Upper
91 100
106 31.5 22.0 40.8

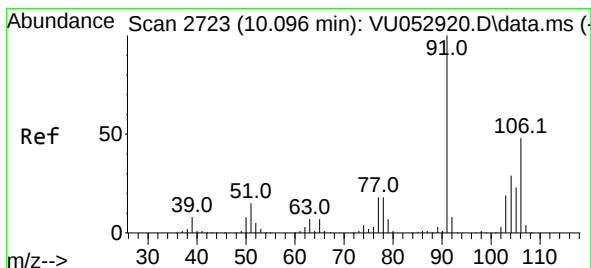
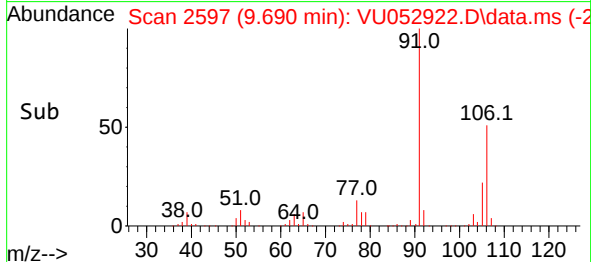
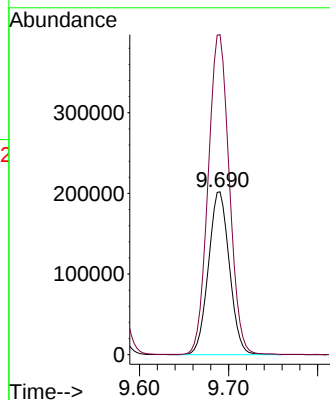
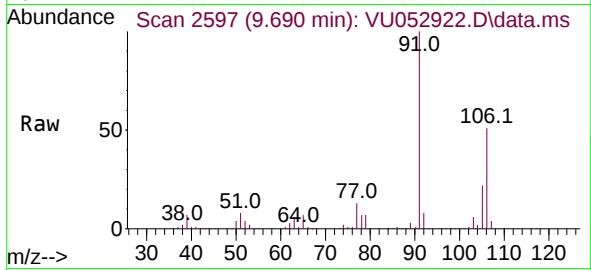




#53
m,p-Xylene
Concen: 88.718 ug/L
RT: 9.690 min Scan# 2597
Delta R.T. -0.000 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

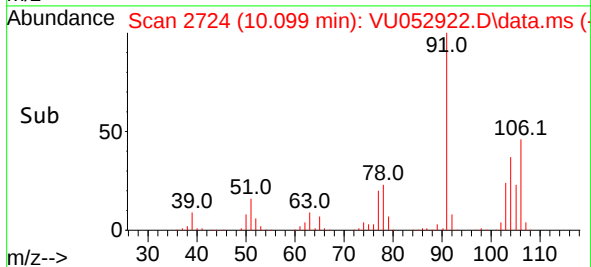
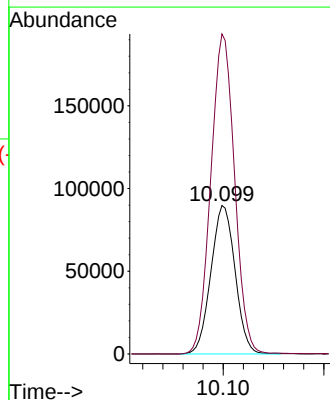
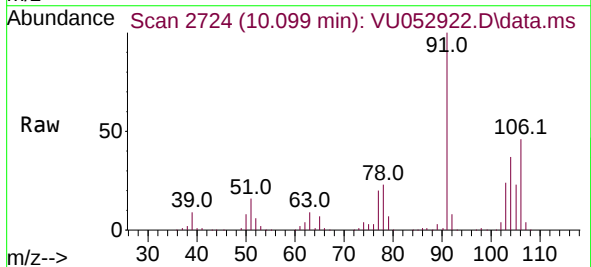
Instrument :
MSVOA_U
ClientSampleId :

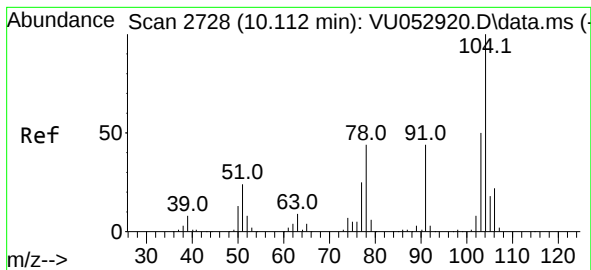
Tgt Ion:106 Resp: 329214
Ion Ratio Lower Upper
106 100
91 196.5 137.4 255.2



#54
o-xylene
Concen: 42.263 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. 0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion:106 Resp: 149718
Ion Ratio Lower Upper
106 100
91 215.6 143.4 266.2





#55

Styrene

Concen: 62.790 ug/L

RT: 10.115 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU052922.D

Acq: 02 Feb 2023 13:51

Instrument :

MSVOA_U

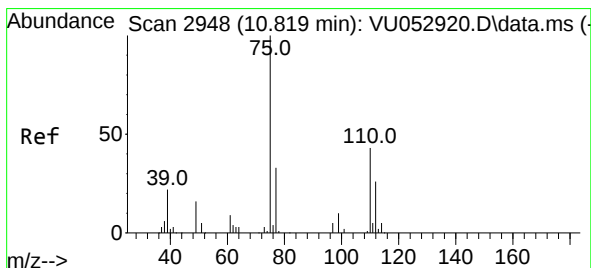
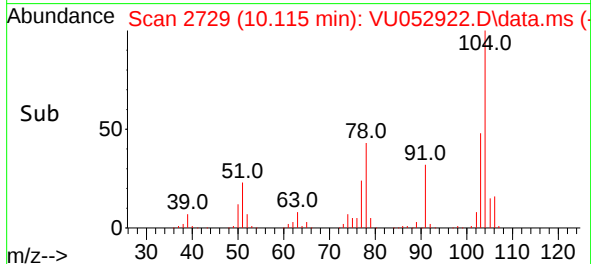
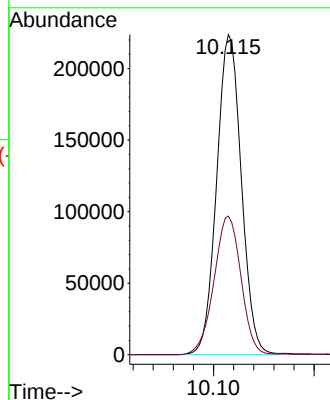
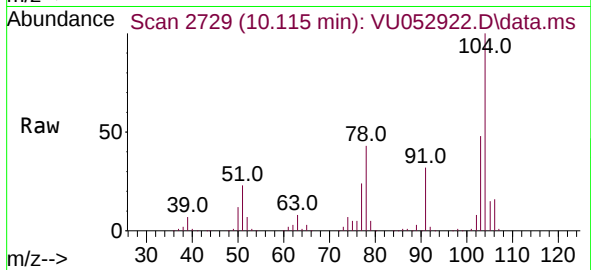
ClientSampleId :

Tgt Ion:104 Resp: 381696

Ion Ratio Lower Upper

104 100

78 43.3 31.9 59.2



#60

1,2,3-Trichloropropane

Concen: 6.151 ug/L

RT: 10.780 min Scan# 2936

Delta R.T. -0.039 min

Lab File: VU052922.D

Acq: 02 Feb 2023 13:51

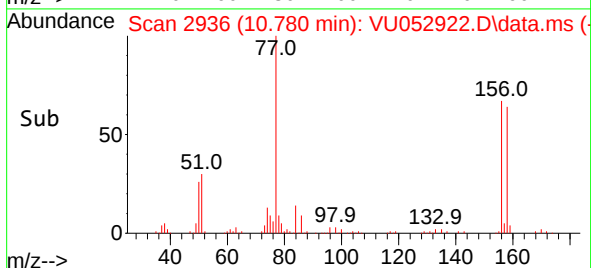
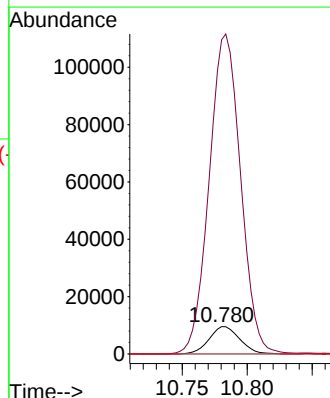
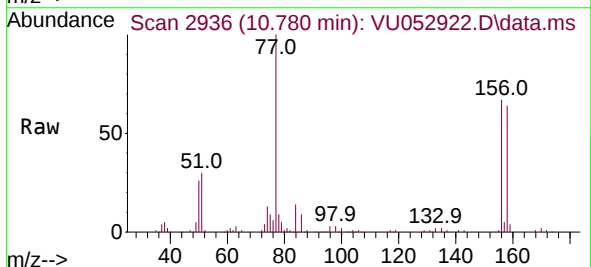
Tgt Ion: 75 Resp: 15602

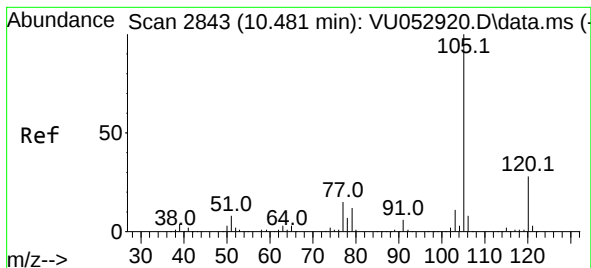
Ion Ratio Lower Upper

75 100

77 1203.0 25.8 38.8#

110 0.0 32.4 48.6#





#61

Isopropylbenzene

Concen: 58.182 ug/L

RT: 10.485 min Scan# 2844

Delta R.T. 0.003 min

Lab File: VU052922.D

Acq: 02 Feb 2023 13:51

Instrument :

MSVOA_U

ClientSampleId :

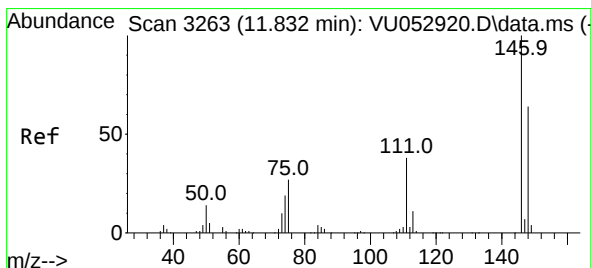
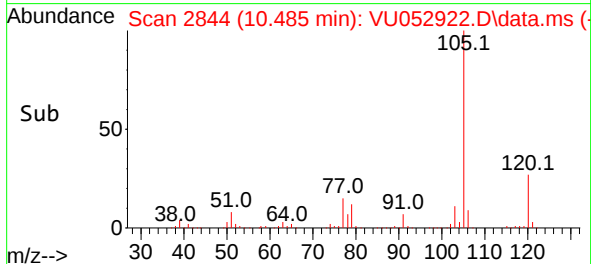
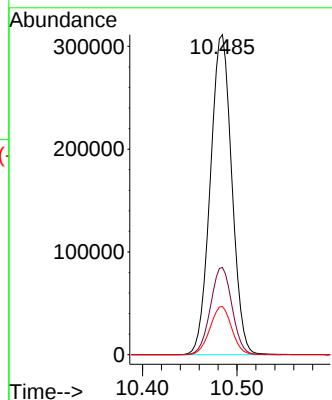
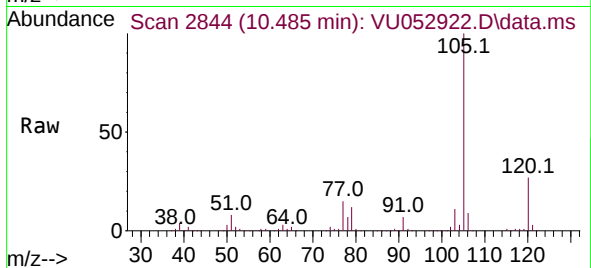
Tgt Ion:105 Resp: 491353

Ion Ratio Lower Upper

105 100

120 27.4 21.4 32.2

77 15.2 12.2 18.2



#65

1,4-Dichlorobenzene

Concen: 19.782 ug/L

RT: 11.835 min Scan# 3264

Delta R.T. 0.003 min

Lab File: VU052922.D

Acq: 02 Feb 2023 13:51

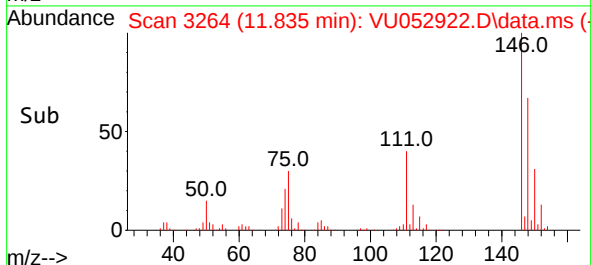
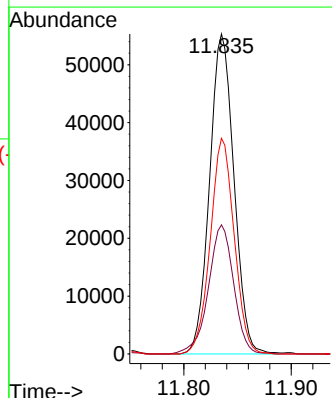
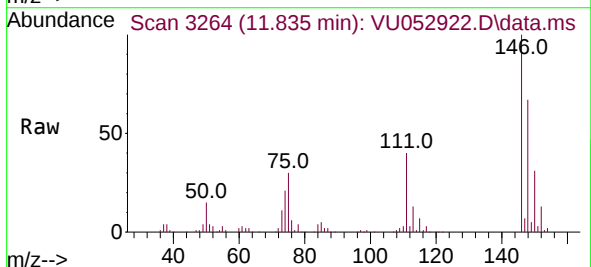
Tgt Ion:146 Resp: 87257

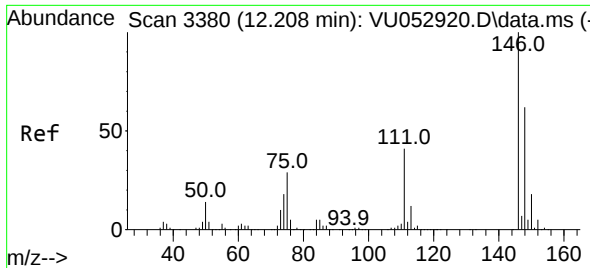
Ion Ratio Lower Upper

146 100

111 40.4 26.7 49.7

148 67.4 45.6 84.6





#67

1,2-Dichlorobenzene

Concen: 22.066 ug/L

RT: 12.211 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU052922.D

Acq: 02 Feb 2023 13:51

Instrument :

MSVOA_U

ClientSampleId :

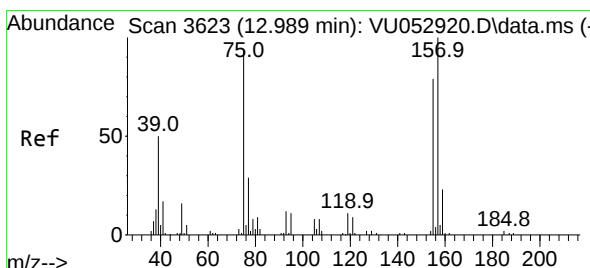
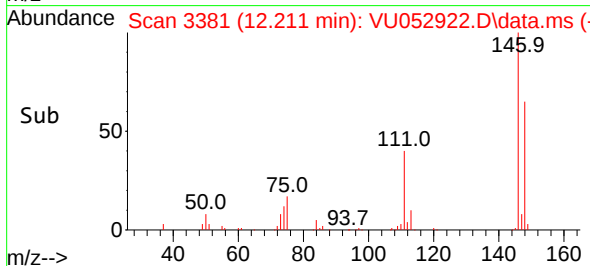
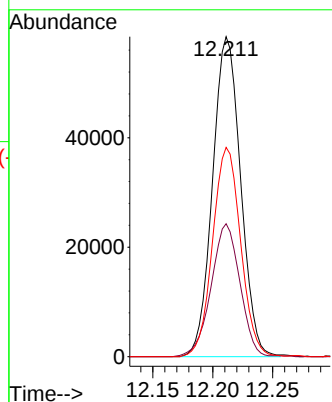
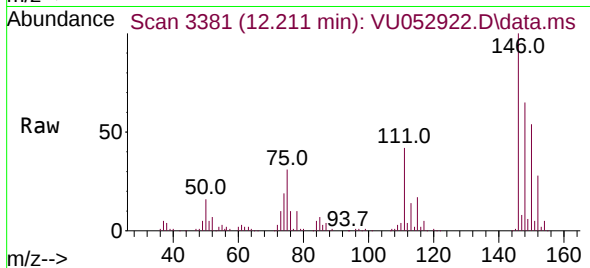
Tgt Ion:146 Resp: 95098

Ion Ratio Lower Upper

146 100

111 41.5 33.2 49.8

148 65.4 50.2 75.4



#68

1,2-Dibromo-3-chloropropane

Concen: 35.012 ug/L

RT: 13.214 min Scan# 3693

Delta R.T. 0.225 min

Lab File: VU052922.D

Acq: 02 Feb 2023 13:51

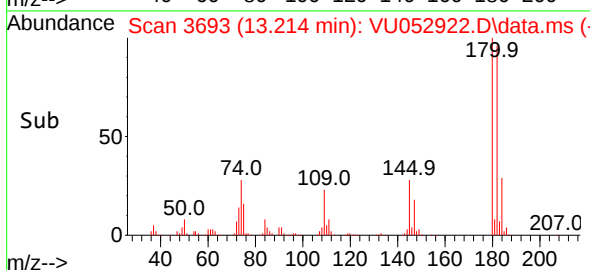
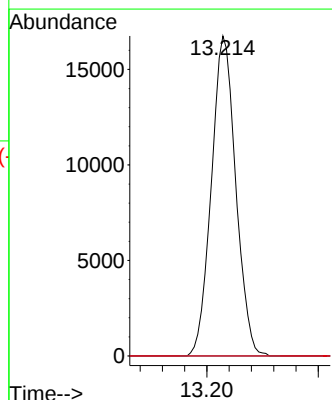
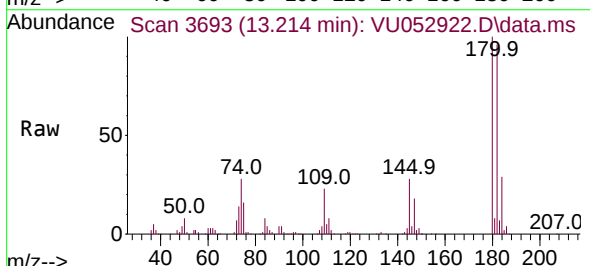
Tgt Ion: 75 Resp: 25455

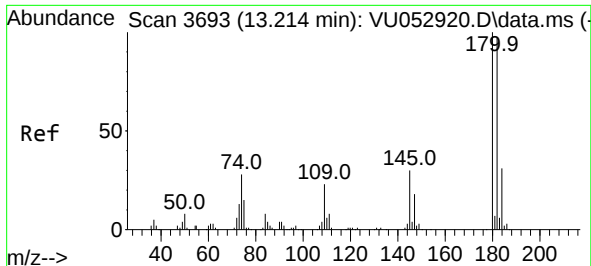
Ion Ratio Lower Upper

75 100

155 0.0 69.2 103.8#

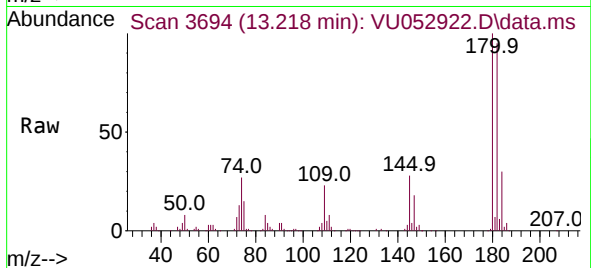
157 0.0 91.2 136.8#



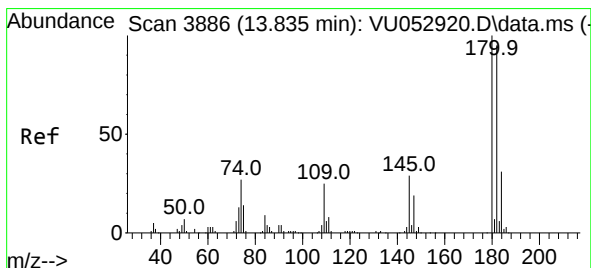
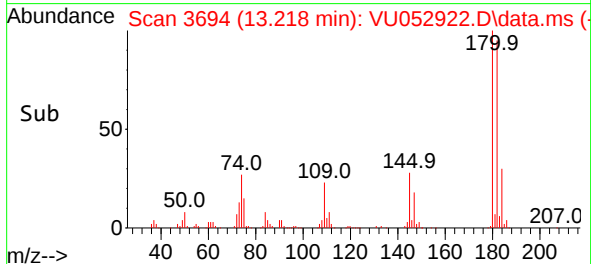
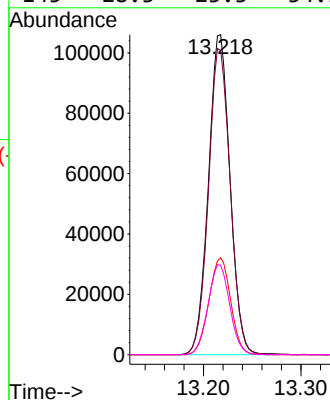


#69
 1,3,5-Trichlorobenzene
 Concen: 51.887 ug/L
 RT: 13.218 min Scan# 3694
 Delta R.T. 0.003 min
 Lab File: VU052922.D
 Acq: 02 Feb 2023 13:51

Instrument :
 MSVOA_U
 ClientSampleId :

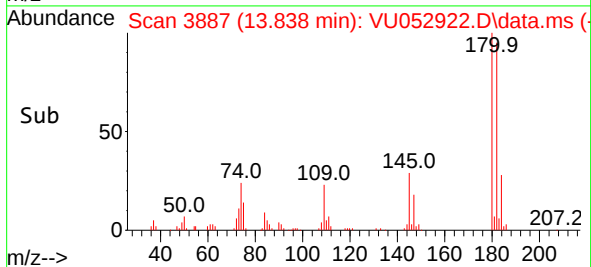
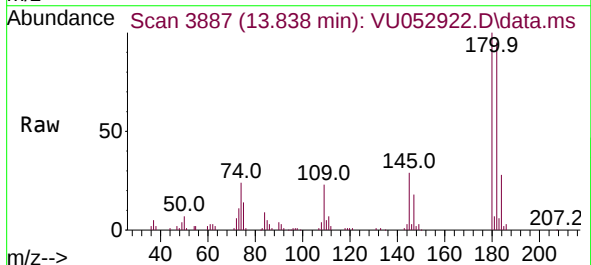
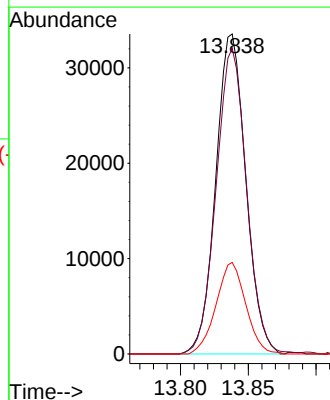


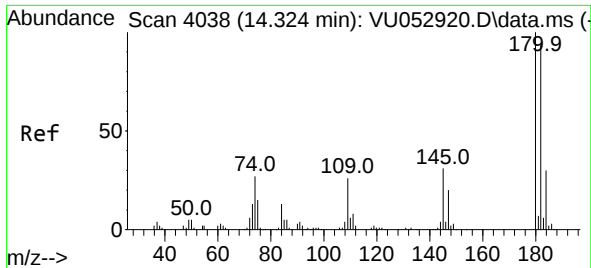
Tgt Ion:180 Resp: 163668
 Ion Ratio Lower Upper
 180 100
 182 96.0 77.0 115.6
 184 30.5 24.4 36.6
 145 28.3 23.3 34.9



#70
 1,2,4-trichlorobenzene
 Concen: 19.557 ug/L
 RT: 13.838 min Scan# 3887
 Delta R.T. 0.003 min
 Lab File: VU052922.D
 Acq: 02 Feb 2023 13:51

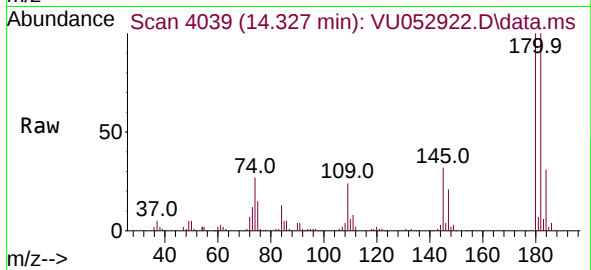
Tgt Ion:180 Resp: 51719
 Ion Ratio Lower Upper
 180 100
 182 96.8 78.2 117.2
 145 28.3 23.4 35.2





#72
 1,2,3-Trichlorobenzene
 Concen: 57.755 ug/L
 RT: 14.327 min Scan# 4039
 Delta R.T. 0.003 min
 Lab File: VU052922.D
 Acq: 02 Feb 2023 13:51

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:180 Resp: 161416
 Ion Ratio Lower Upper
 180 100
 182 98.0 77.5 116.3
 145 32.2 24.2 36.4

