

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU031924\
 Data File : VU058163.D
 Acq On : 19 Mar 2024 20:18
 Operator : MD/SY
 Sample : P1796-02
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 20 05:23:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR022924WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Mar 20 05:19:57 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.264	114	131575	5.000	ug/L	0.02
28) Chlorobenzene-d5	9.418	117	121296	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	58226	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.599	65	207881	21.959	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	439.200%#
7) Chloroethane-d5	1.920	69	36808	4.731	ug/L	0.02
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.600%
11) 1,1-Dichloroethene-d2	2.563	65	19877	4.852	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.000%
20) 2-Butanone-d5	4.714	46	14896	9.550	ug/L	0.10
Spiked Amount	50.000	Range	40 - 130	Recovery	=	19.100%#
24) Chloroform-d	5.087	84	79267	4.427	ug/L	0.04
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.600%
26) 1,2-Dichloroethane-d4	5.724	65	39057	4.814	ug/L	0.03
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.200%
32) Benzene-d6	5.746	84	170249	4.816	ug/L	0.03
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.400%
36) 1,2-Dichloropropane-d6	6.701	67	54092	5.034	ug/L	0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.600%
41) Toluene-d8	7.901	98	150124	4.687	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.800%
43) trans-1,3-Dichloroprop...	8.184	79	15970	4.322	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.400%
46) 2-Hexanone-d5	8.647	63	69358	55.903	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	111.800%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	20486	3.109	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	62.200%#
66) 1,2-Dichlorobenzene-d4	12.190	152	47519	4.955	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.200%
Target Compounds						
					Qvalue	
3) Chloromethane	1.602	50	147568	15.830	ug/L #	43
12) 1,1-Dichloroethene	2.576	96	361267	45.507	ug/L #	71
14) Carbon disulfide	2.785	76	15432	0.629	ug/L	97
18) trans-1,2-Dichloroethene	3.341	96	531499	61.464	ug/L	88
19) 1,1-Dichloroethane	3.872	63	22278	1.292	ug/L	97
21) 2-Butanone	4.878	43	40107	21.928	ug/L #	1
25) Chloroform	5.110	83	6603	0.375	ug/L	97
27) 1,2-Dichloroethane	5.817	62	18378	1.885	ug/L	96
30) Cyclohexane	5.402	56	26525	1.820	ug/L	100
33) Benzene	5.788	78	789066	21.200	ug/L	100
34) Trichloroethene	6.553	95	38569	3.938	ug/L	97
35) Methylcyclohexane	6.769	83	134799	8.979	ug/L	95
37) 1,2-Dichloropropane	6.772	63	1848	0.193	ug/L #	96
42) Toluene	7.971	91	249293	6.431	ug/L	100
45) 1,1,2-Trichloroethane	8.370	97	17399	3.057	ug/L #	18
52) Ethylbenzene	9.569	91	355330	8.192	ug/L	100
53) m,p-Xylene	9.695	106	126602	8.169	ug/L	99
54) o-Xylene	10.100	106	95597	6.189	ug/L	98
55) Styrene	10.103	104	6571	0.271	ug/L #	1

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Mar 20 05:19:57 2024
Response via : Initial Calibration

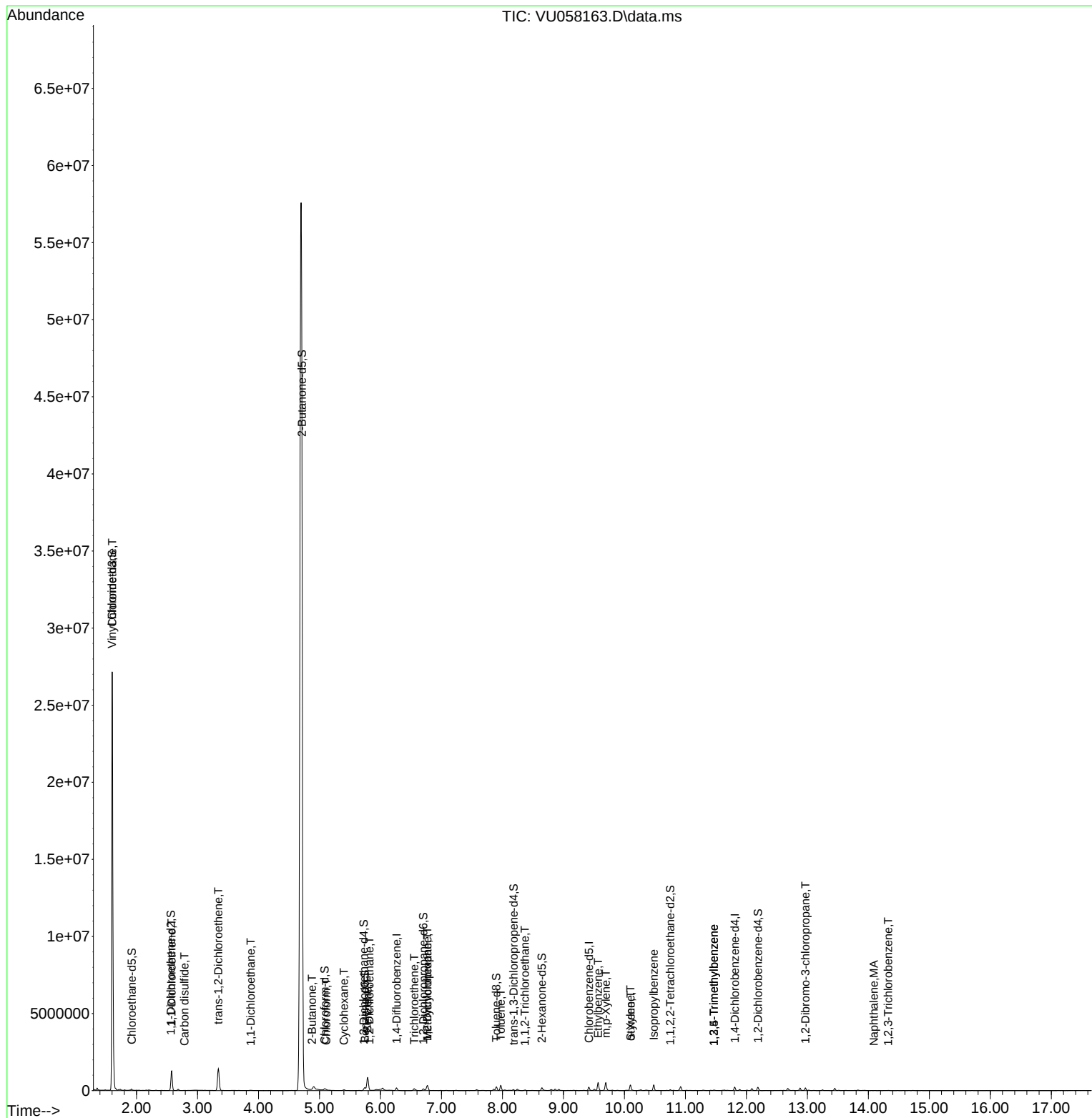
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) Isopropylbenzene	10.483	105	240517	6.202	ug/L	100
62) 1,3,5-Trimethylbenzene	11.466	105	14403	0.440	ug/L	93
63) 1,2,4-Trimethylbenzene	11.466	105	14403	0.446	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.968	75	766	0.809	ug/L #	7
71) Naphthalene	14.090	128	1773	0.136	ug/L #	76
72) 1,2,3-Trichlorobenzene	14.325	180	3062	0.407	ug/L #	81

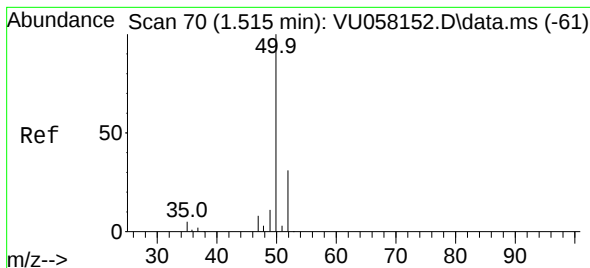
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 15.830 ug/L

RT: 1.602 min Scan# 91

Delta R.T. 0.087 min

Lab File: VU058163.D

Acq: 19 Mar 2024 20:18

Instrument :

MSVOA_U

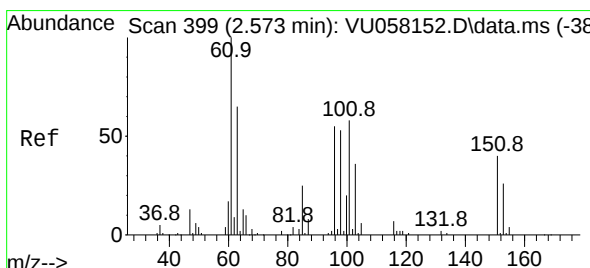
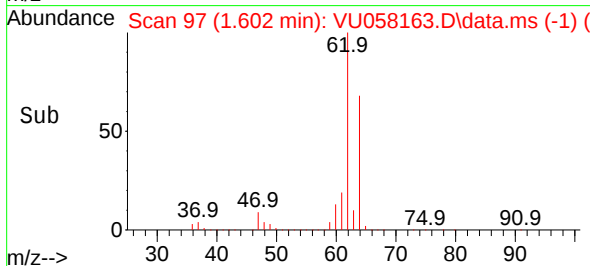
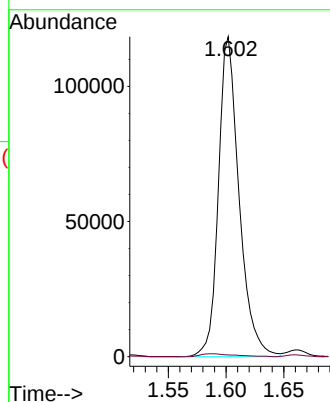
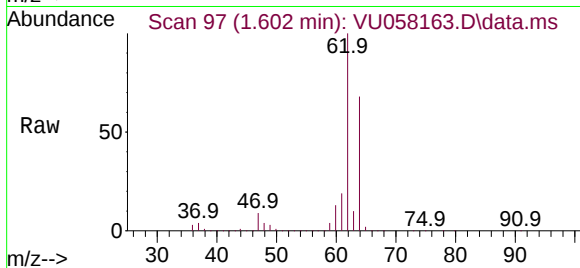
ClientSampleId :

Tgt Ion: 50 Resp: 147568

Ion Ratio Lower Upper

50 100

52 0.5 23.1 42.9#



#12

1,1-Dichloroethene

Concen: 45.507 ug/L

RT: 2.576 min Scan# 400

Delta R.T. 0.003 min

Lab File: VU058163.D

Acq: 19 Mar 2024 20:18

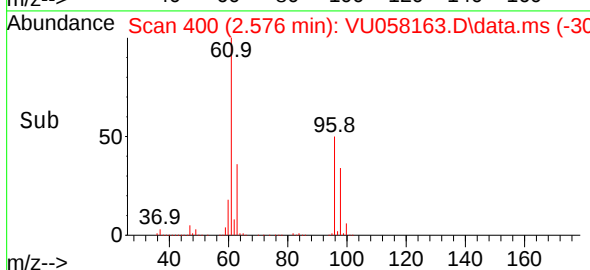
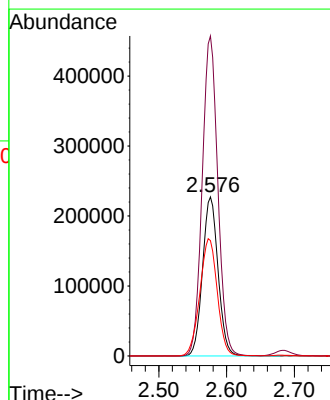
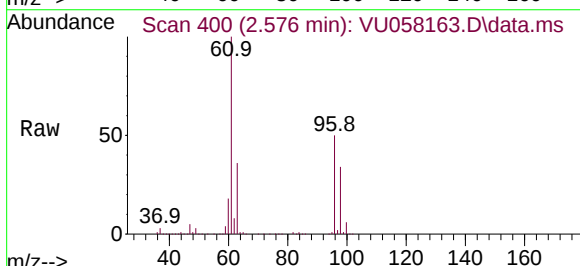
Tgt Ion: 96 Resp: 361267

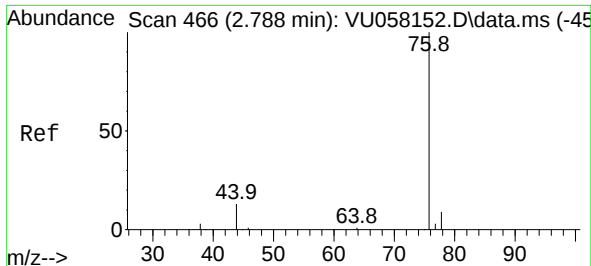
Ion Ratio Lower Upper

96 100

61 201.2 131.8 244.8

63 72.6 98.1 182.1#

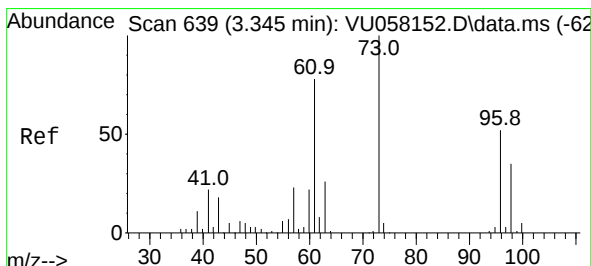
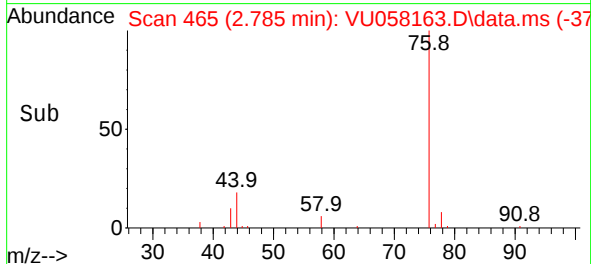
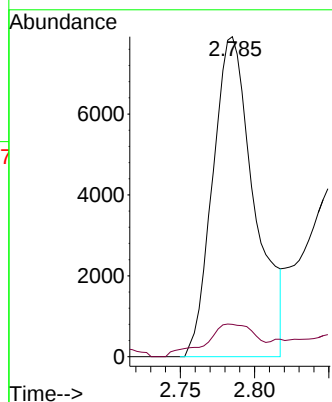
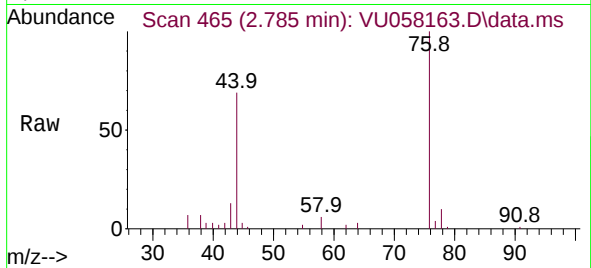




#14
Carbon disulfide
Concen: 0.629 ug/L
RT: 2.785 min Scan# 4
Delta R.T. -0.003 min
Lab File: VU058163.D
Acq: 19 Mar 2024 20:18

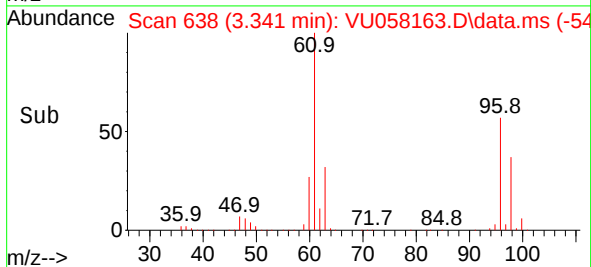
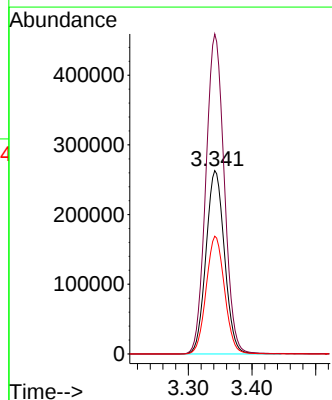
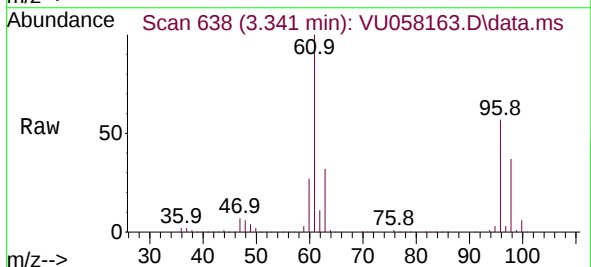
Instrument :
MSVOA_U
ClientSampleId :

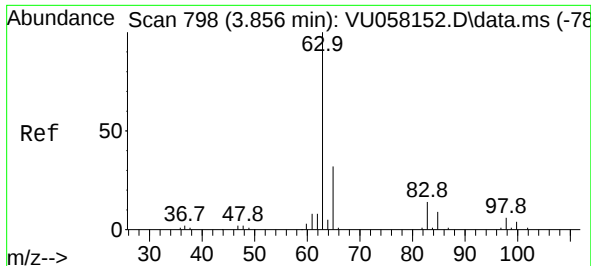
Tgt Ion: 76 Resp: 15432
Ion Ratio Lower Upper
76 100
78 10.1 7.3 10.9



#18
trans-1,2-Dichloroethene
Concen: 61.464 ug/L
RT: 3.341 min Scan# 638
Delta R.T. -0.003 min
Lab File: VU058163.D
Acq: 19 Mar 2024 20:18

Tgt Ion: 96 Resp: 531499
Ion Ratio Lower Upper
96 100
61 174.6 107.7 199.9
98 64.2 45.8 85.0





#19

1,1-Dichloroethane

Concen: 1.292 ug/L

RT: 3.872 min Scan# 80

Delta R.T. 0.016 min

Lab File: VU058163.D

Acq: 19 Mar 2024 20:18

Instrument :

MSVOA_U

ClientSampleId :

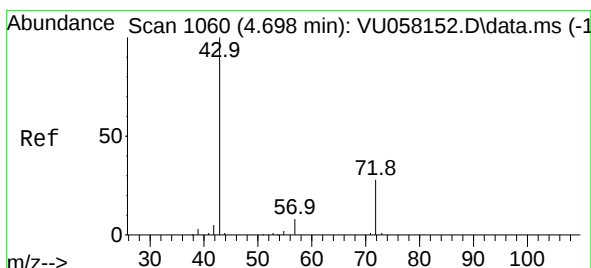
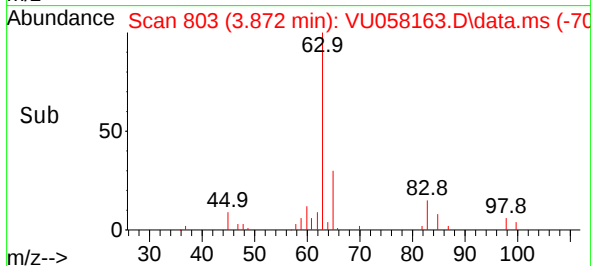
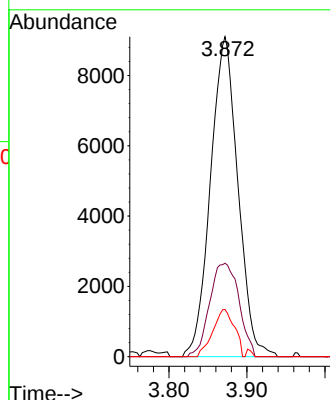
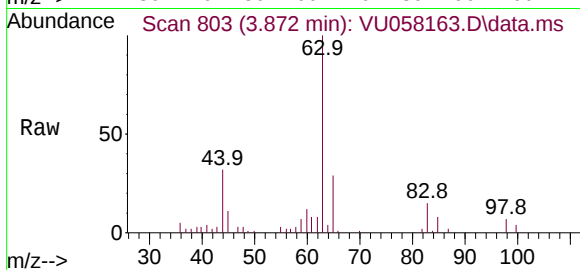
Tgt Ion: 63 Resp: 22278

Ion Ratio Lower Upper

63 100

65 30.6 22.1 41.1

83 14.8 9.0 16.6



#21

2-Butanone

Concen: 21.928 ug/L

RT: 4.878 min Scan# 1116

Delta R.T. 0.180 min

Lab File: VU058163.D

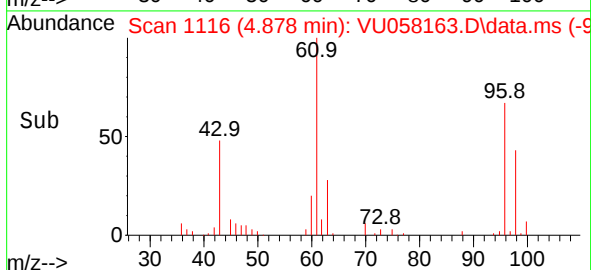
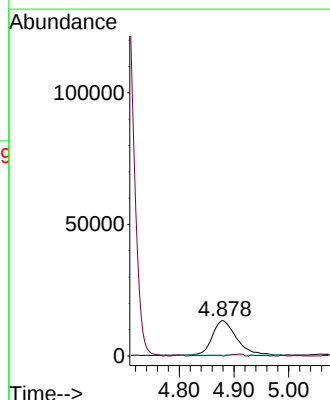
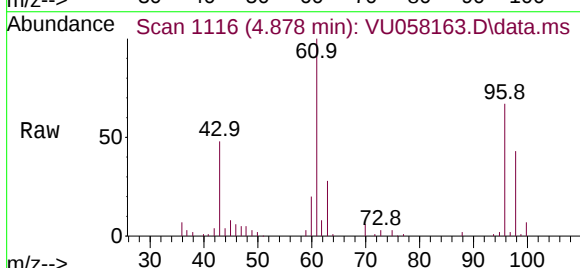
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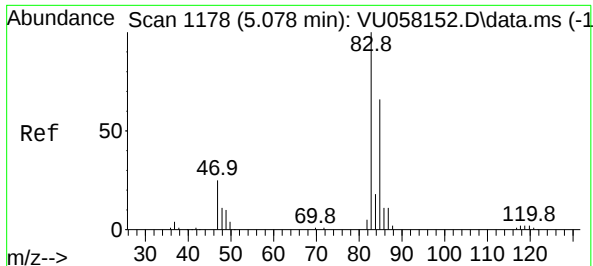
Tgt Ion: 43 Resp: 40107

Ion Ratio Lower Upper

43 100

72 977.1 13.0 39.0#





#25

Chloroform

Concen: 0.375 ug/L

RT: 5.110 min Scan# 1178

Delta R.T. 0.032 min

Lab File: VU058163.D

Acq: 19 Mar 2024 20:18

Instrument :

MSVOA_U

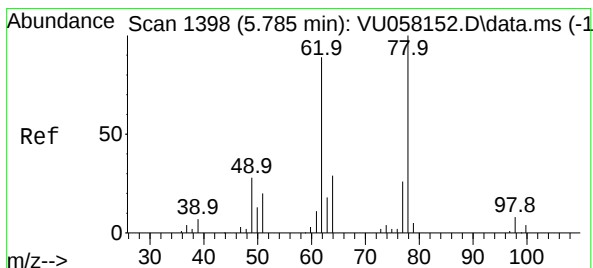
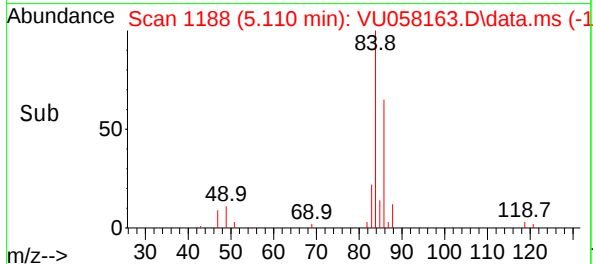
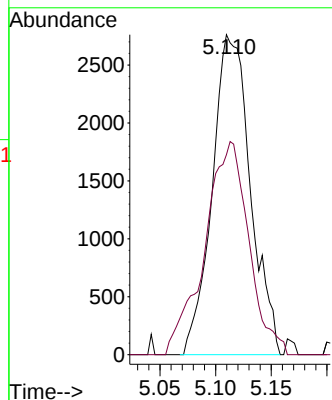
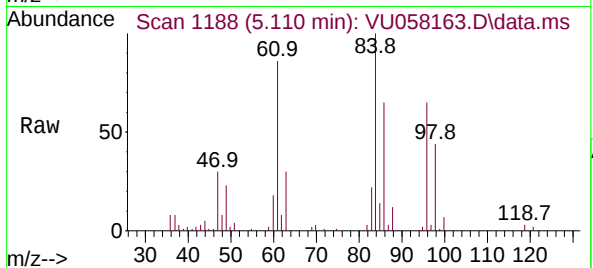
ClientSampleId :

Tgt Ion: 83 Resp: 6603

Ion Ratio Lower Upper

83 100

85 62.5 45.4 84.4



#27

1,2-Dichloroethane

Concen: 1.885 ug/L

RT: 5.817 min Scan# 1408

Delta R.T. 0.032 min

Lab File: VU058163.D

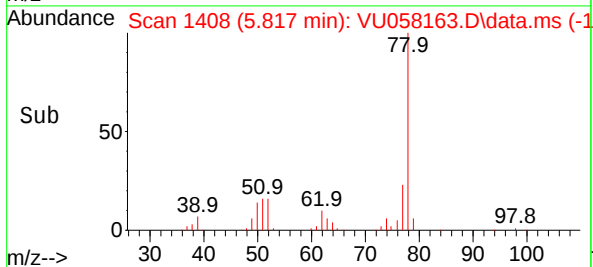
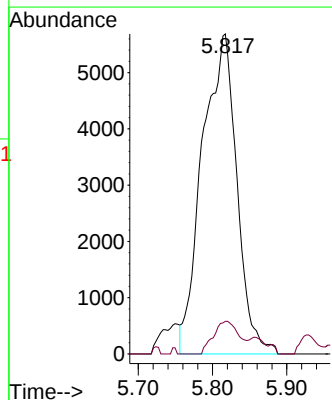
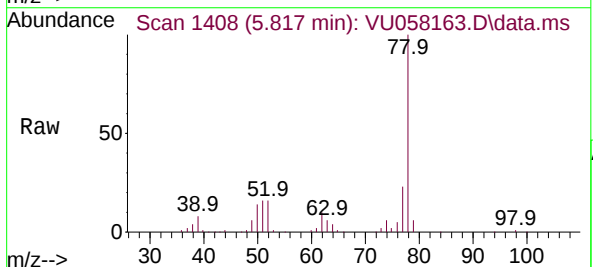
Acq: 19 Mar 2024 20:18

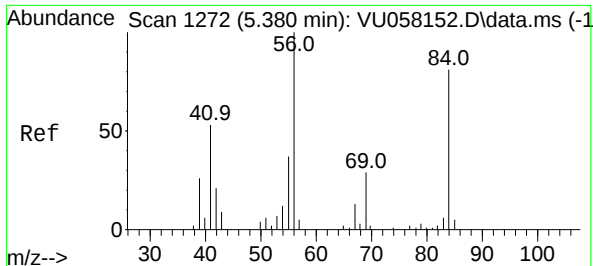
Tgt Ion: 62 Resp: 18378

Ion Ratio Lower Upper

62 100

98 10.2 7.0 10.4

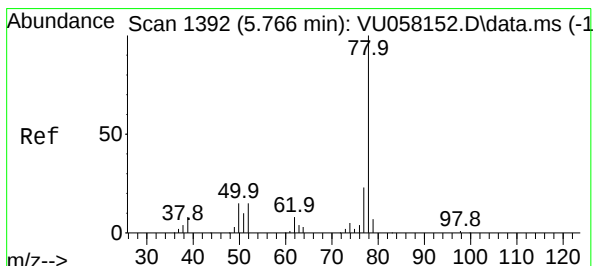
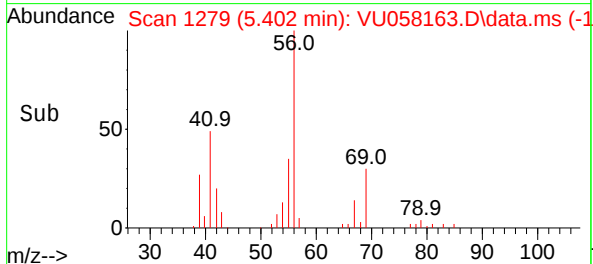
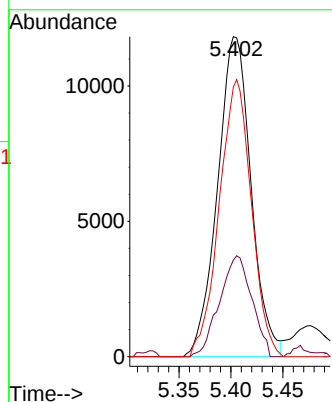
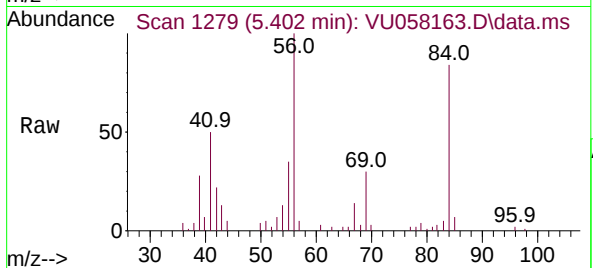




#30
Cyclohexane
Concen: 1.820 ug/L
RT: 5.402 min Scan# 1279
Delta R.T. 0.023 min
Lab File: VU058163.D
Acq: 19 Mar 2024 20:18

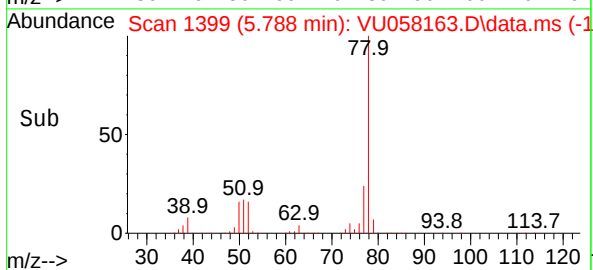
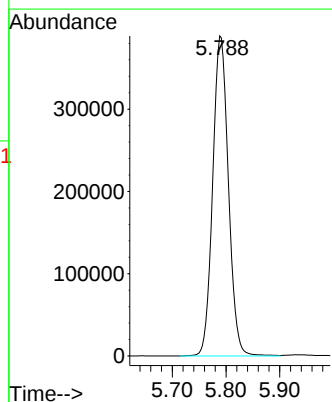
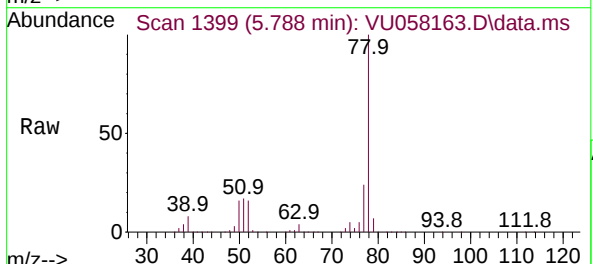
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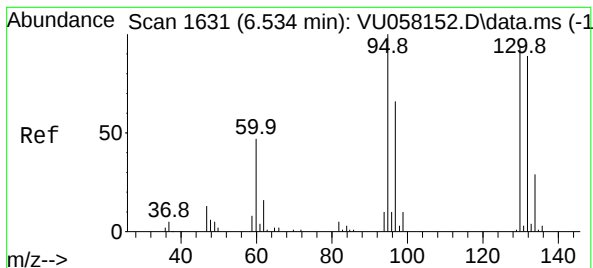
Tgt Ion: 56 Resp: 26525
Ion Ratio Lower Upper
56 100
69 30.4 24.2 36.2
84 82.9 66.6 99.8



#33
Benzene
Concen: 21.200 ug/L
RT: 5.788 min Scan# 1399
Delta R.T. 0.023 min
Lab File: VU058163.D
Acq: 19 Mar 2024 20:18

Tgt Ion: 78 Resp: 789066





#34

Trichloroethene

Concen: 3.938 ug/L

RT: 6.553 min Scan# 1

Delta R.T. 0.019 min

Lab File: VU058163.D

Acq: 19 Mar 2024 20:18

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 38569

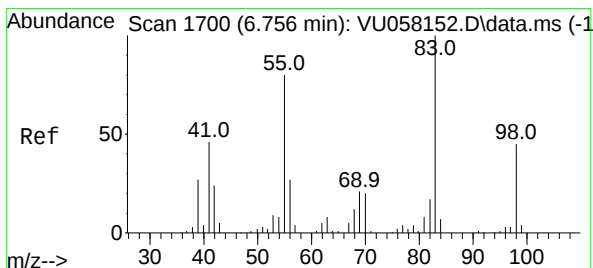
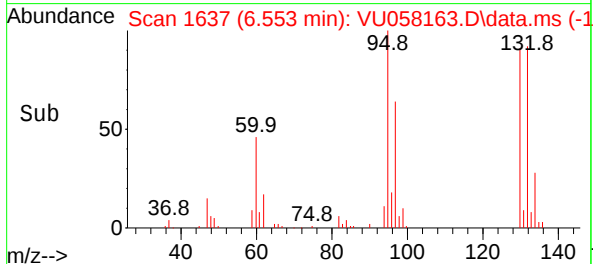
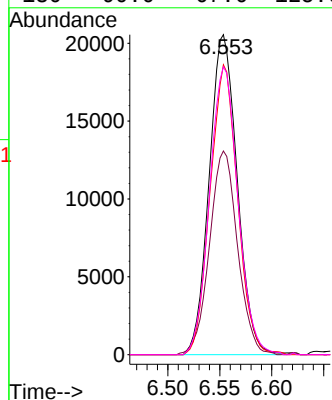
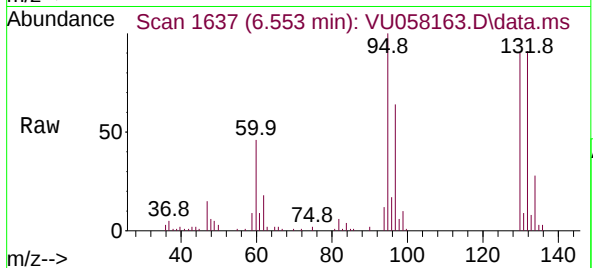
Ion Ratio Lower Upper

95 100

97 63.6 45.3 84.1

132 90.6 63.1 117.1

130 90.0 67.6 125.6



#35

Methylcyclohexane

Concen: 8.979 ug/L

RT: 6.769 min Scan# 1704

Delta R.T. 0.013 min

Lab File: VU058163.D

Acq: 19 Mar 2024 20:18

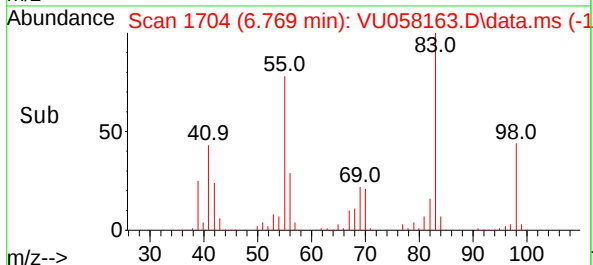
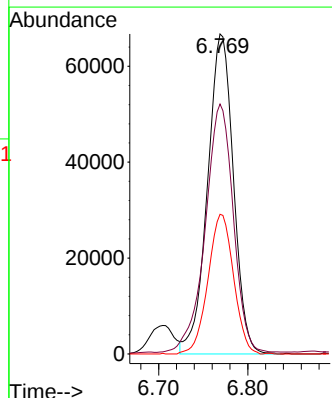
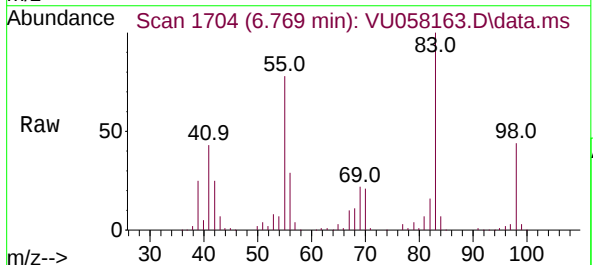
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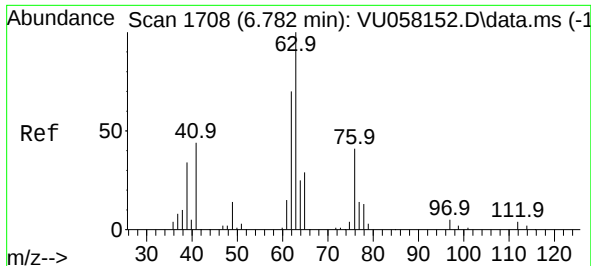
Ion Ratio Lower Upper

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98 43.1 36.2 54.4

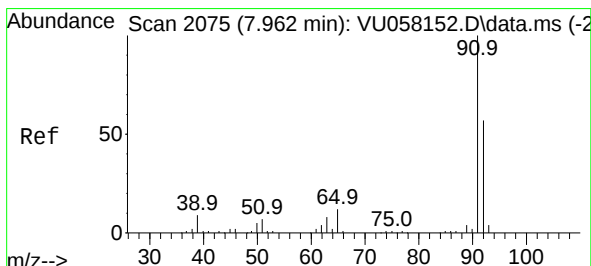
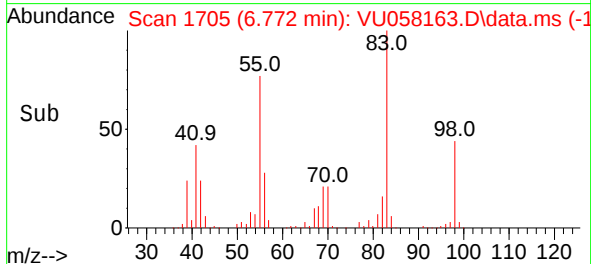
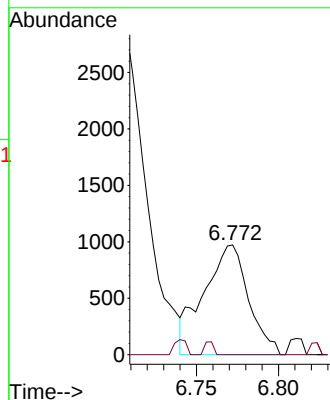
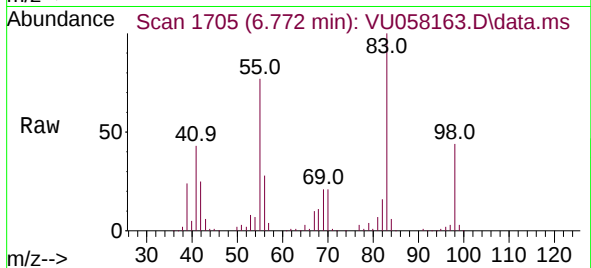




#37
1,2-Dichloropropane
Concen: 0.193 ug/L
RT: 6.772 min Scan# 1
Delta R.T. -0.010 min
Lab File: VU058163.D
Acq: 19 Mar 2024 20:18

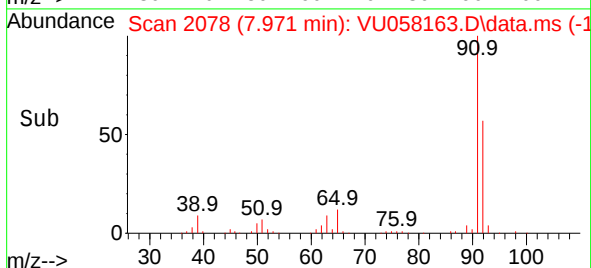
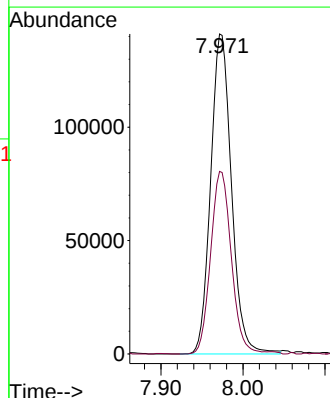
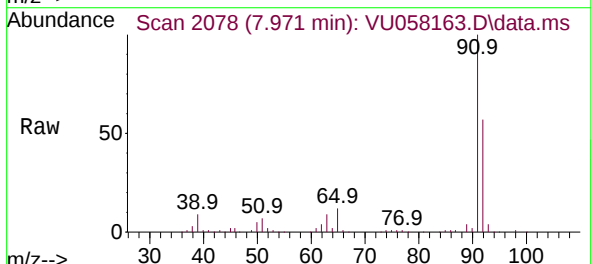
Instrument :
MSVOA_U
ClientSampleId :

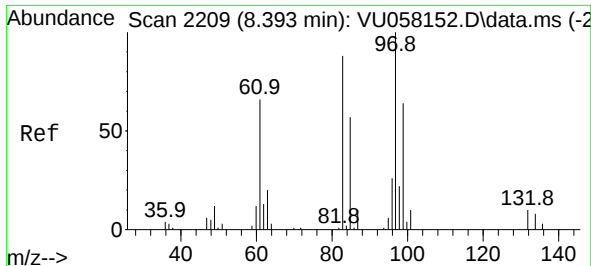
Tgt Ion: 63 Resp: 1848
Ion Ratio Lower Upper
63 100
112 2.4 3.0 4.4#



#42
Toluene
Concen: 6.431 ug/L
RT: 7.971 min Scan# 2078
Delta R.T. 0.010 min
Lab File: VU058163.D
Acq: 19 Mar 2024 20:18

Tgt Ion: 91 Resp: 249293
Ion Ratio Lower Upper
91 100
92 57.1 40.2 74.6





#45

1,1,2-Trichloroethane

Concen: 3.057 ug/L

RT: 8.370 min Scan# 21

Delta R.T. -0.022 min

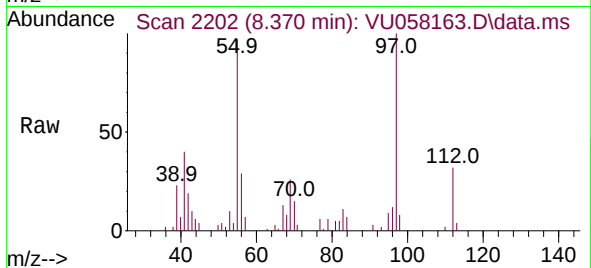
Lab File: VU058163.D

Acq: 19 Mar 2024 20:18

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion: 97 Resp: 17399

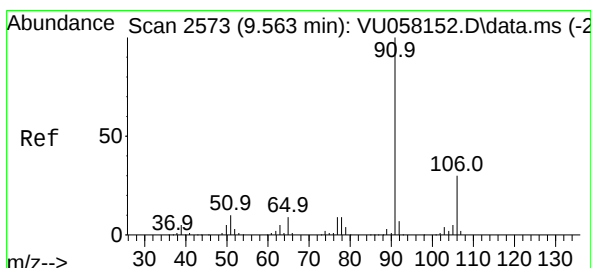
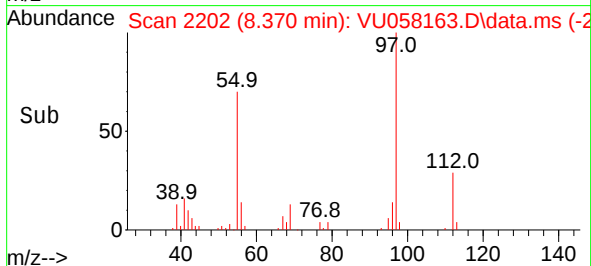
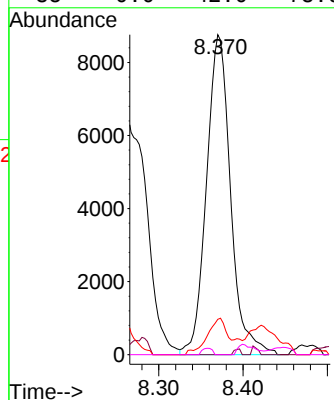
Ion Ratio Lower Upper

97 100

99 0.0 44.2 82.2#

83 11.0 64.2 119.2#

85 0.0 42.0 78.0#



#52

Ethylbenzene

Concen: 8.192 ug/L

RT: 9.569 min Scan# 2575

Delta R.T. 0.006 min

Lab File: VU058163.D

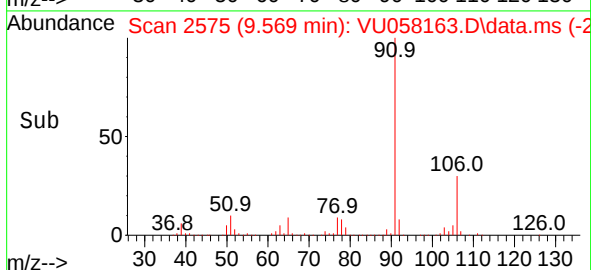
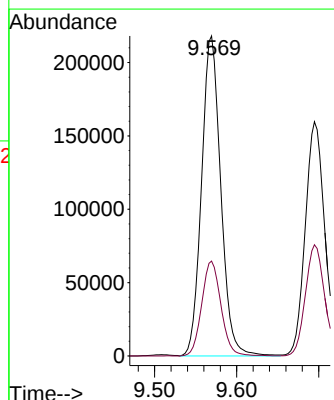
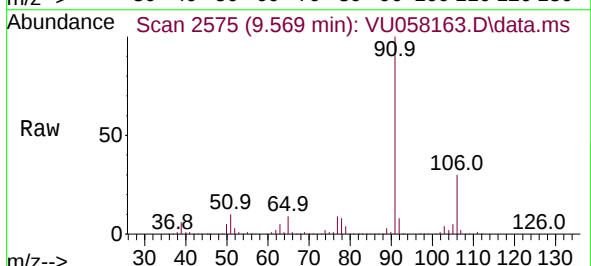
Acq: 19 Mar 2024 20:18

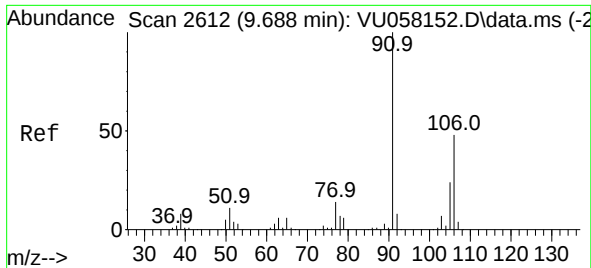
Tgt Ion: 91 Resp: 355330

Ion Ratio Lower Upper

91 100

106 29.7 20.9 38.7

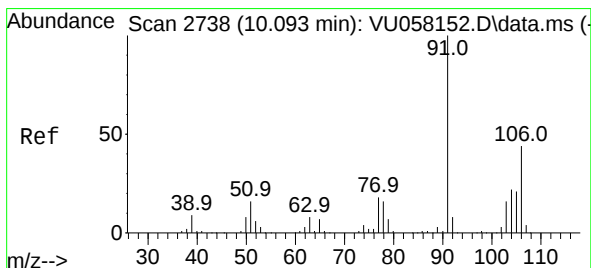
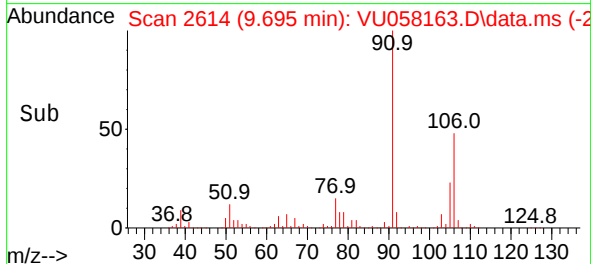
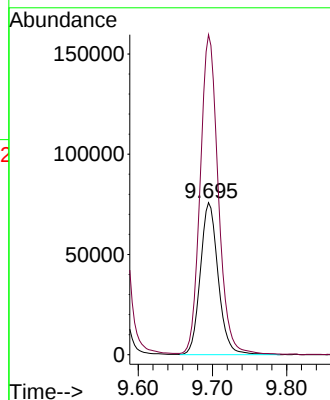
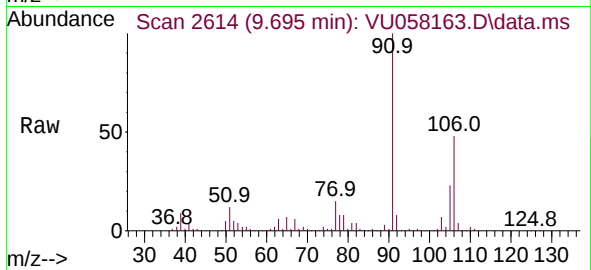




#53
m,p-Xylene
Concen: 8.169 ug/L
RT: 9.695 min Scan# 21
Delta R.T. 0.006 min
Lab File: VU058163.D
Acq: 19 Mar 2024 20:18

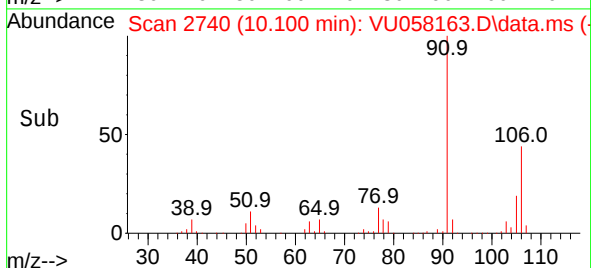
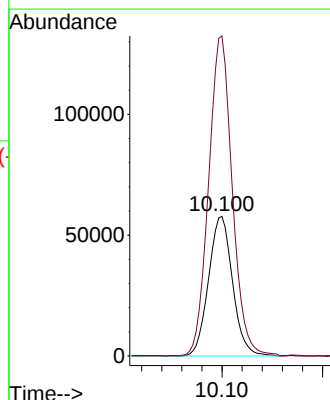
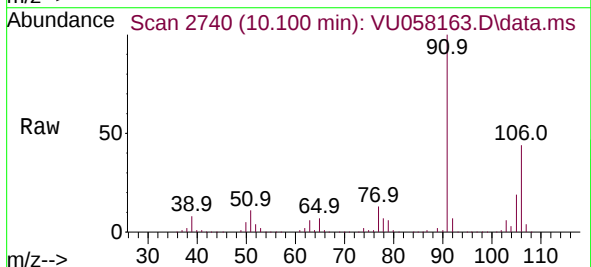
Instrument :
MSVOA_U
ClientSampleId :

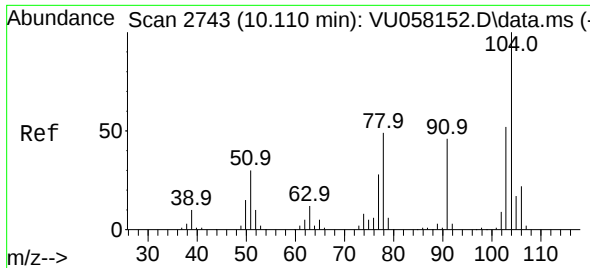
Tgt Ion:106 Resp: 126602
Ion Ratio Lower Upper
106 100
91 210.4 148.8 276.4



#54
o-Xylene
Concen: 6.189 ug/L
RT: 10.100 min Scan# 2740
Delta R.T. 0.006 min
Lab File: VU058163.D
Acq: 19 Mar 2024 20:18

Tgt Ion:106 Resp: 95597
Ion Ratio Lower Upper
106 100
91 229.3 158.3 294.1

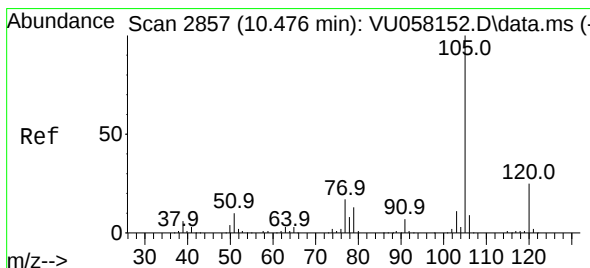
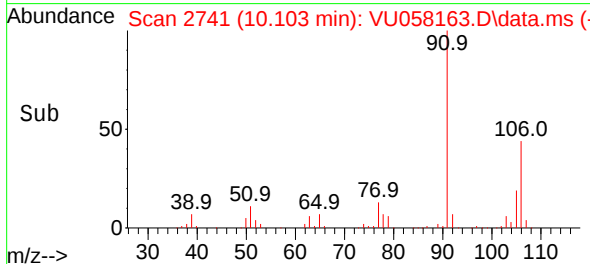
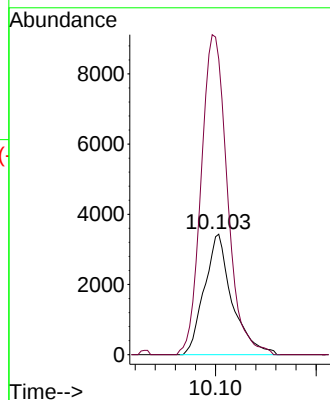
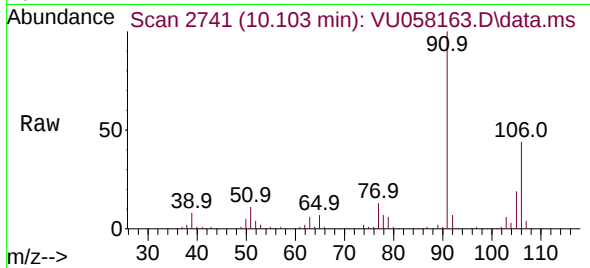




#55
Styrene
Concen: 0.271 ug/L
RT: 10.103 min Scan# 21
Delta R.T. -0.006 min
Lab File: VU058163.D
Acq: 19 Mar 2024 20:18

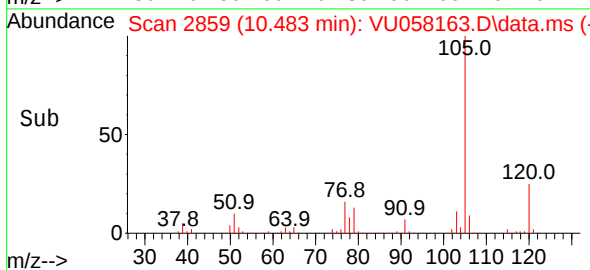
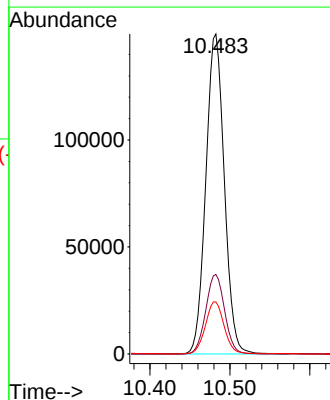
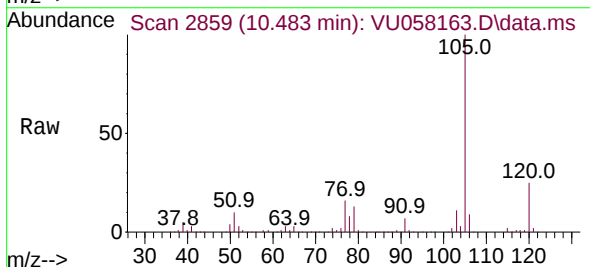
Instrument :
MSVOA_U
ClientSampleId :

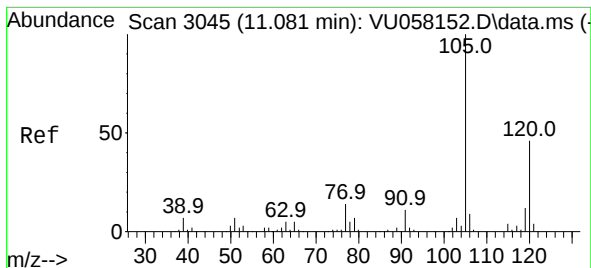
Tgt Ion:104 Resp: 6571
Ion Ratio Lower Upper
104 100
78 245.3 34.2 63.4#



#60
Isopropylbenzene
Concen: 6.202 ug/L
RT: 10.483 min Scan# 2859
Delta R.T. 0.006 min
Lab File: VU058163.D
Acq: 19 Mar 2024 20:18

Tgt Ion:105 Resp: 240517
Ion Ratio Lower Upper
105 100
120 25.4 20.4 30.6
77 16.7 13.2 19.8





#62

1,3,5-Trimethylbenzene

Concen: 0.440 ug/L

RT: 11.466 min Scan# 3165

Delta R.T. 0.386 min

Lab File: VU058163.D

Acq: 19 Mar 2024 20:18

Instrument :

MSVOA_U

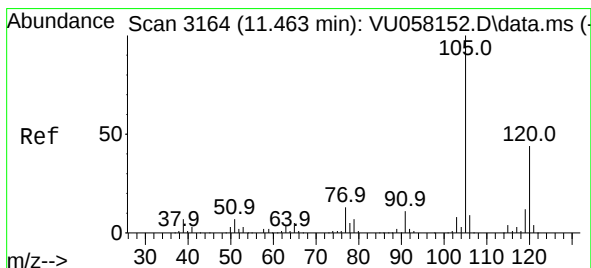
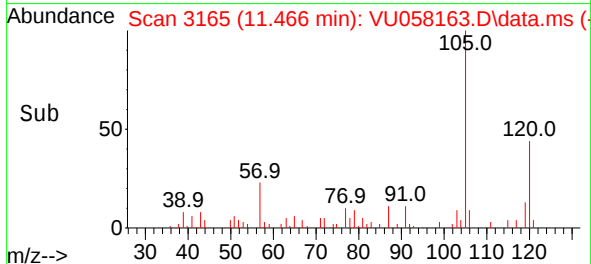
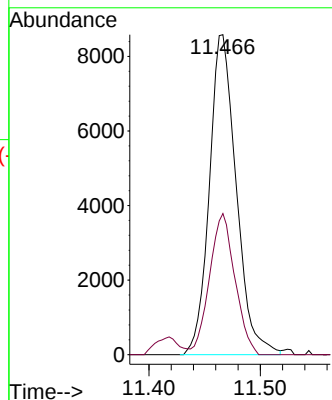
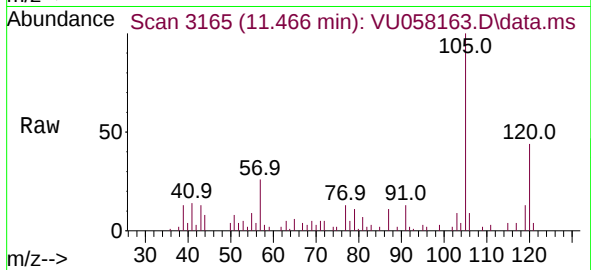
ClientSampleId :

Tgt Ion:105 Resp: 14403

Ion Ratio Lower Upper

105 100

120 41.6 37.1 55.7



#63

1,2,4-Trimethylbenzene

Concen: 0.446 ug/L

RT: 11.466 min Scan# 3165

Delta R.T. 0.003 min

Lab File: VU058163.D

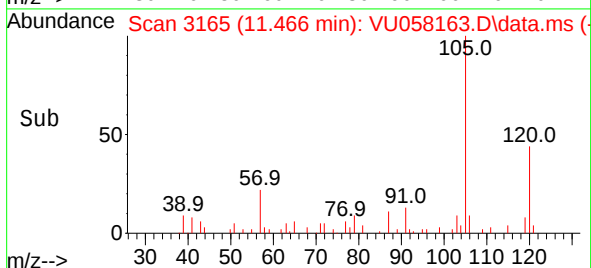
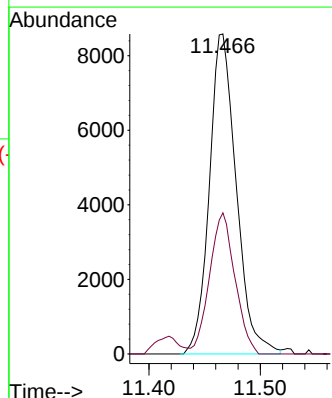
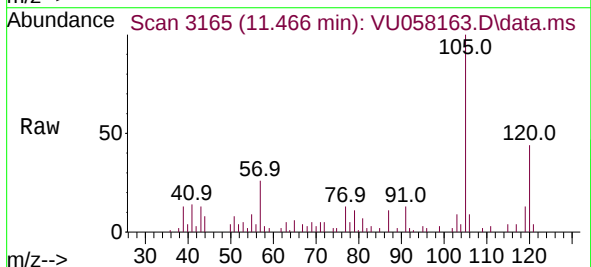
Acq: 19 Mar 2024 20:18

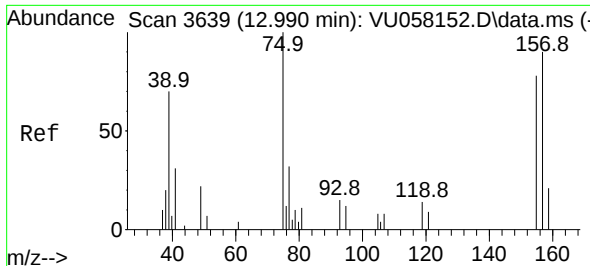
Tgt Ion:105 Resp: 14403

Ion Ratio Lower Upper

105 100

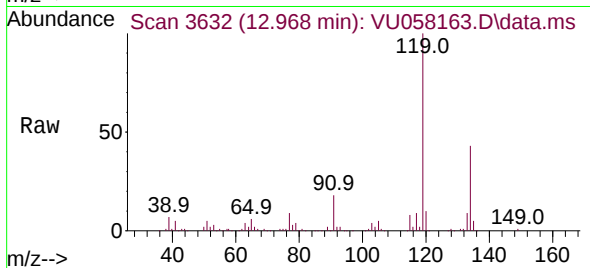
120 41.6 34.8 52.2



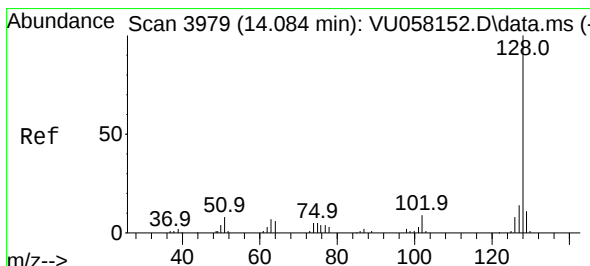
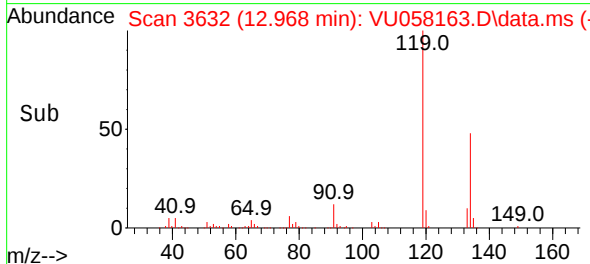
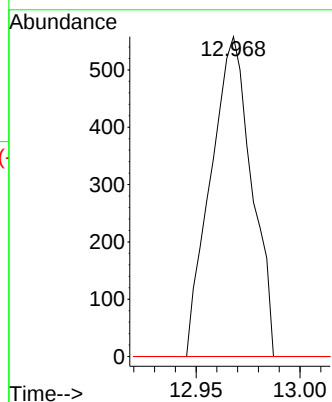


#68
1,2-Dibromo-3-chloropropane
Concen: 0.809 ug/L
RT: 12.968 min Scan# 309
Delta R.T. -0.022 min
Lab File: VU058163.D
Acq: 19 Mar 2024 20:18

Instrument :
MSVOA_U
ClientSampleId :

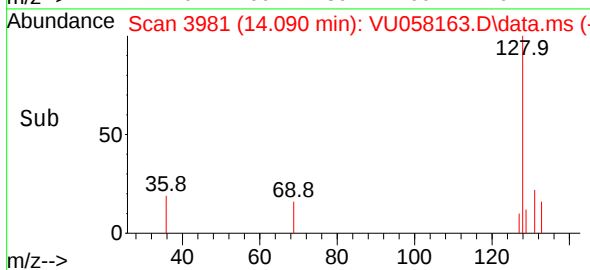
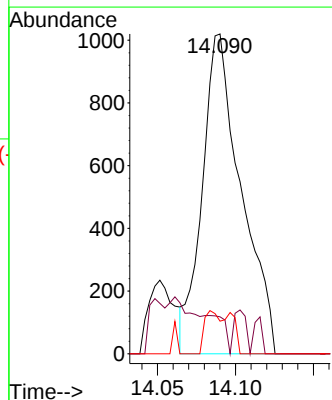
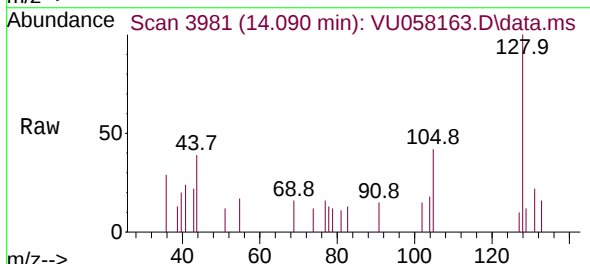


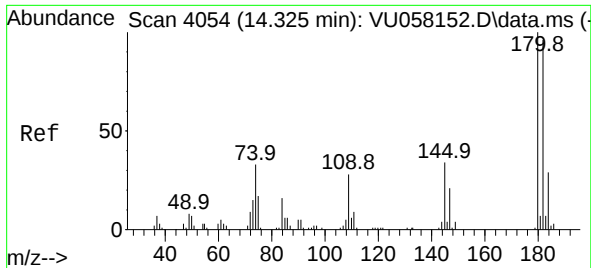
Tgt Ion: 75 Resp: 766
Ion Ratio Lower Upper
75 100
155 0.0 61.0 91.6#
157 0.0 74.6 112.0#



#71
Naphthalene
Concen: 0.136 ug/L
RT: 14.090 min Scan# 3981
Delta R.T. 0.006 min
Lab File: VU058163.D
Acq: 19 Mar 2024 20:18

Tgt Ion: 128 Resp: 1773
Ion Ratio Lower Upper
128 100
129 0.0 9.0 13.6#
127 5.3 10.6 16.0#





#72

1,2,3-Trichlorobenzene

Concen: 0.407 ug/L

RT: 14.325 min Scan# 4054

Delta R.T. 0.000 min

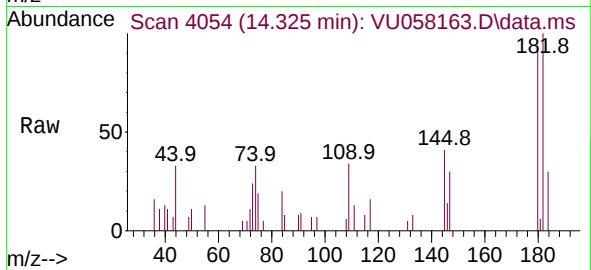
Lab File: VU058163.D

Acq: 19 Mar 2024 20:18

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 3062

Ion Ratio Lower Upper

180 100

182 99.8 77.6 116.4

145 73.8 28.7 43.1#

