

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU031924\
 Data File : VU058161.D
 Acq On : 19 Mar 2024 17:37
 Operator : MD/SY
 Sample : P1796-12
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GCFZ7

Quant Time: Mar 20 05:22:19 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	6.242	114	136895	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	128771	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	58750	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	41085	4.171	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.400%
7) Chloroethane-d5	1.904	69	38662	4.776	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.600%
11) 1,1-Dichloroethene-d2	2.557	65	19129	4.488	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	89.800%
20) 2-Butanone-d5	4.615	46	89333	55.047	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.100%
24) Chloroform-d	5.052	84	87183	4.680	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.600%
26) 1,2-Dichloroethane-d4	5.692	65	40879	4.843	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.800%
32) Benzene-d6	5.718	84	176048	4.691	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.800%
36) 1,2-Dichloropropane-d6	6.682	67	56516	4.954	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.000%
41) Toluene-d8	7.891	98	148289	4.361	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.200%
43) trans-1,3-Dichloroprop...	8.174	79	15975	4.072	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.400%
46) 2-Hexanone-d5	8.624	63	71061	53.951	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.900%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	34518	4.934	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.600%
66) 1,2-Dichlorobenzene-d4	12.187	152	48946	5.059	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.200%
Target Compounds						
					Qvalue	
3) Chloromethane	1.512	50	46399	4.784	ug/L	98
6) Bromomethane	1.850	94	23787	4.329	ug/L	98
9) Trichlorofluoromethane	2.129	101	133824	9.005	ug/L	100
12) 1,1-Dichloroethene	2.573	96	34224	4.143	ug/L	95
13) Acetone	2.618	43	142290	117.817	ug/L	99
14) Carbon disulfide	2.785	76	162941	6.380	ug/L	99
16) Methylene chloride	3.033	84	28260	2.815	ug/L	97
17) Methyl tert-butyl Ether	3.348	73	190790	9.768	ug/L	99
19) 1,1-Dichloroethane	3.856	63	195401	10.888	ug/L	99
21) 2-Butanone	4.686	43	308726	162.230	ug/L	100
27) 1,2-Dichloroethane	5.782	62	87758	8.651	ug/L	100
29) 1,1,1-Trichloroethane	5.306	97	153934	10.044	ug/L	99
30) Cyclohexane	5.377	56	208565	13.476	ug/L	98
34) Trichloroethene	6.534	95	66005	6.349	ug/L	97
35) Methylcyclohexane	6.756	83	122856	7.709	ug/L	99
37) 1,2-Dichloropropane	6.782	63	26332	2.584	ug/L	# 96
42) Toluene	7.962	91	415704	10.102	ug/L	100
47) Tetrachloroethene	8.547	164	73264	10.157	ug/L	97
48) 2-Hexanone	8.676	43	238748	69.455	ug/L	99

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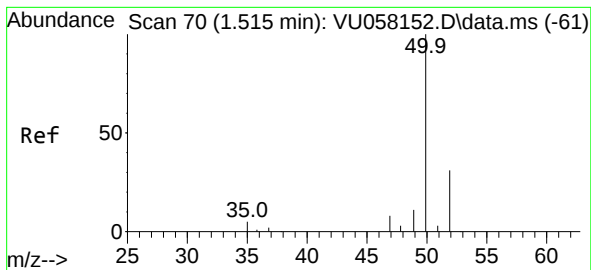
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

50) 1,2-Dibromoethane	8.917	107	103661	19.333	ug/L	97
51) Chlorobenzene	9.438	112	321743	12.468	ug/L	96
52) Ethylbenzene	9.563	91	343388	7.457	ug/L	98
53) m,p-Xylene	9.689	106	257362	15.643	ug/L	100
54) o-Xylene	10.094	106	100982	6.158	ug/L	98
55) Styrene	10.107	104	162847	6.327	ug/L	98
59) Bromoform	10.283	173	19740	6.025	ug/L	99
60) Isopropylbenzene	10.476	105	166559	4.257	ug/L	99
65) 1,4-Dichlorobenzene	11.830	146	84419	4.850	ug/L	100
67) 1,2-Dichlorobenzene	12.206	146	221595	14.272	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.991	75	4506	4.719	ug/L	94
72) 1,2,3-Trichlorobenzene	14.325	180	86881	11.443	ug/L	99

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



#3

Chloromethane

Concen: 4.784 ug/L

RT: 1.512 min Scan# 61

Delta R.T. -0.003 min

Lab File: VU058161.D

Acq: 19 Mar 2024 17:37

Instrument :

MSVOA_U

ClientSampleId :

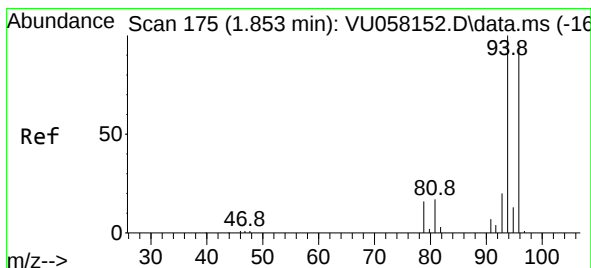
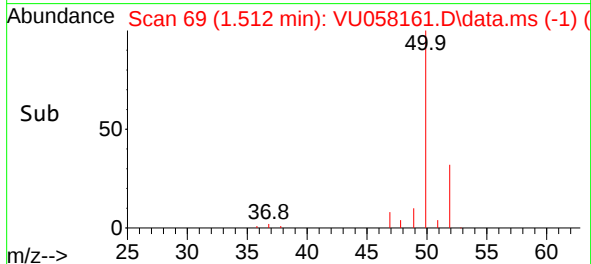
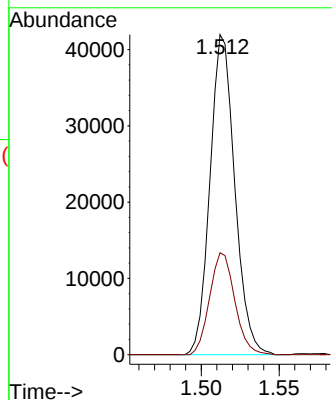
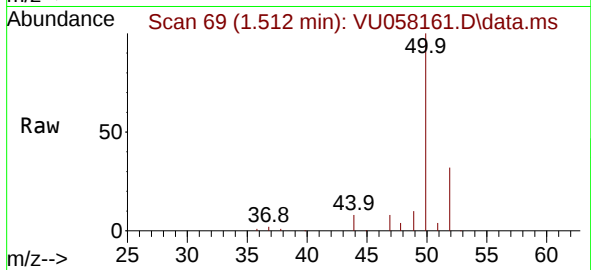
GCFZ7

Tgt Ion: 50 Resp: 46399

Ion Ratio Lower Upper

50 100

52 31.8 23.1 42.9



#6

Bromomethane

Concen: 4.329 ug/L

RT: 1.850 min Scan# 174

Delta R.T. -0.003 min

Lab File: VU058161.D

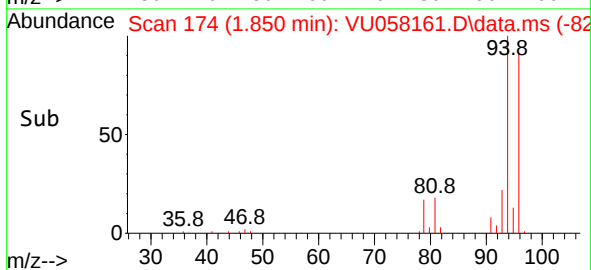
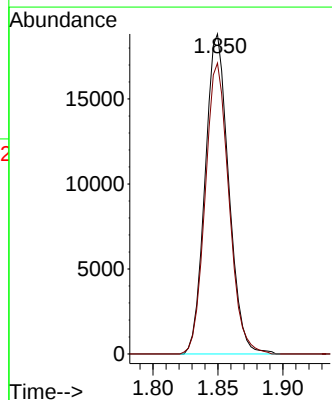
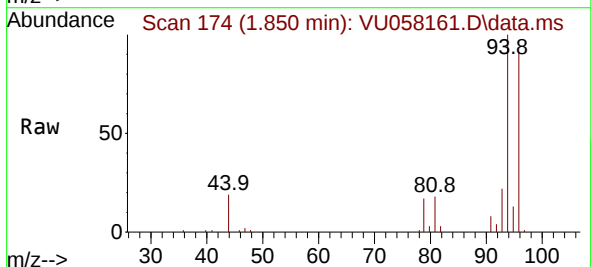
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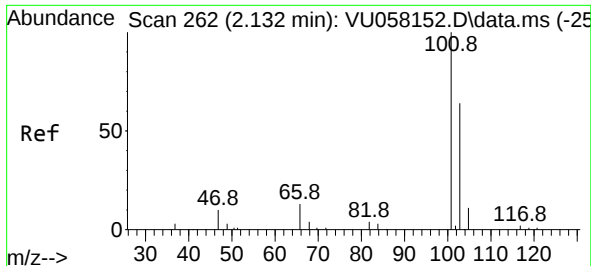
Tgt Ion: 94 Resp: 23787

Ion Ratio Lower Upper

94 100

96 90.9 65.2 121.2

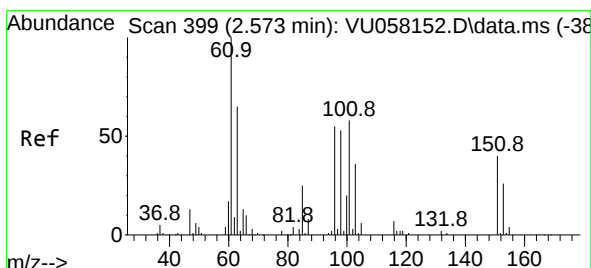
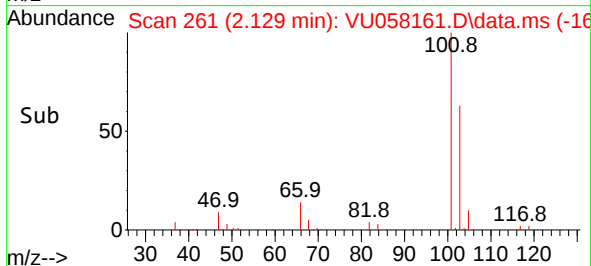
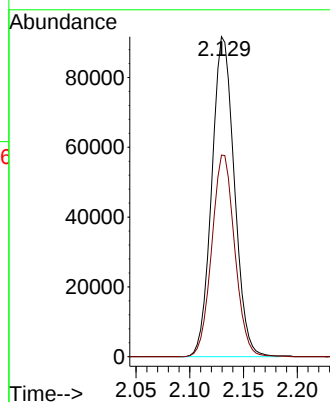
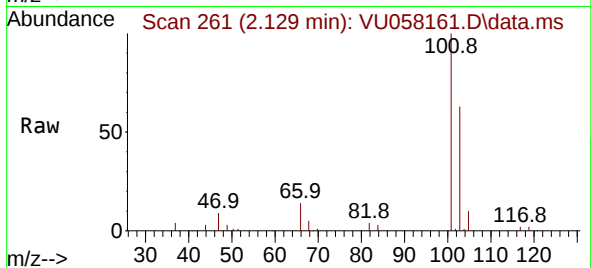




#9
 Trichlorofluoromethane
 Concen: 9.005 ug/L
 RT: 2.129 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: VU058161.D
 Acq: 19 Mar 2024 17:37

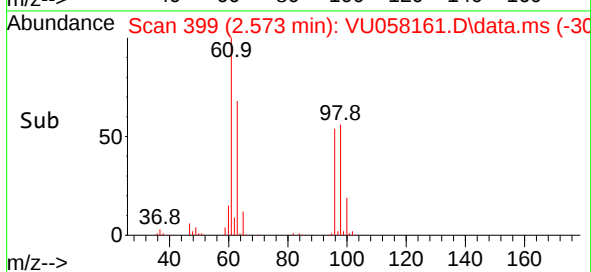
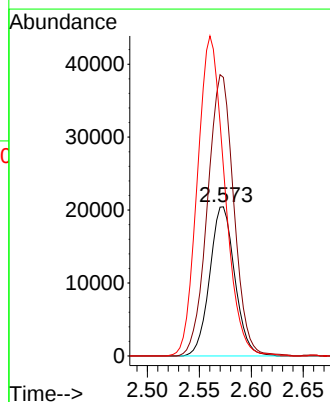
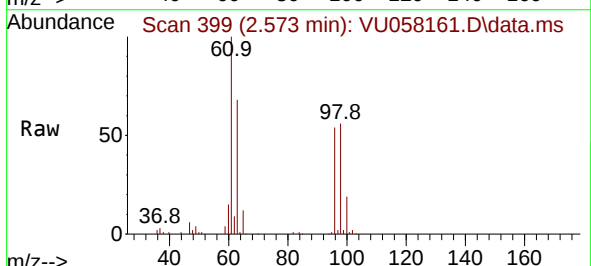
Instrument :
 MSVOA_U
 ClientSampleId :
 GCFZ7

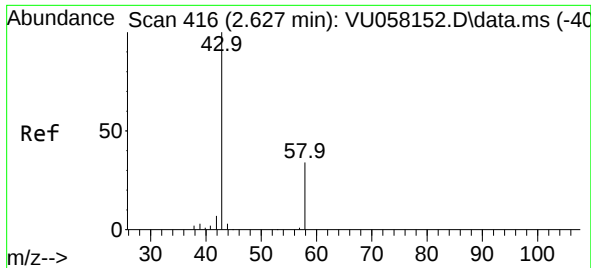
Tgt Ion:101 Resp: 133824
 Ion Ratio Lower Upper
 101 100
 103 64.2 51.4 77.2



#12
 1,1-Dichloroethene
 Concen: 4.143 ug/L
 RT: 2.573 min Scan# 399
 Delta R.T. 0.000 min
 Lab File: VU058161.D
 Acq: 19 Mar 2024 17:37

Tgt Ion: 96 Resp: 34224
 Ion Ratio Lower Upper
 96 100
 61 186.8 131.8 244.8
 63 126.8 98.1 182.1





#13

Acetone

Concen: 117.817 ug/L

RT: 2.618 min Scan# 416

Delta R.T. -0.009 min

Lab File: VU058161.D

Acq: 19 Mar 2024 17:37

Instrument :

MSVOA_U

ClientSampleId :

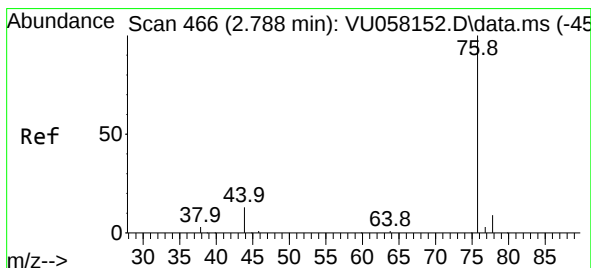
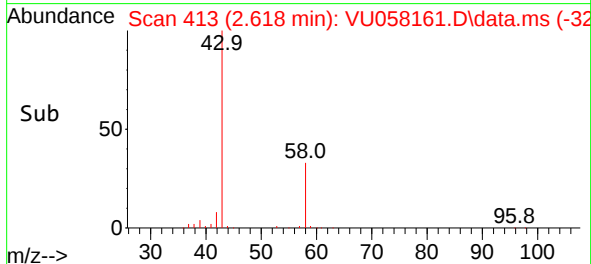
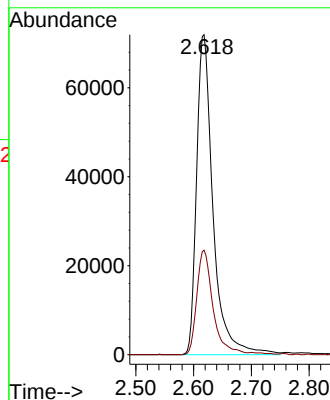
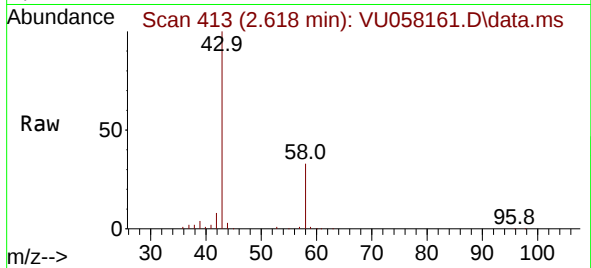
GCFZ7

Tgt Ion: 43 Resp: 142290

Ion Ratio Lower Upper

43 100

58 32.2 0.0 63.6



#14

Carbon disulfide

Concen: 6.380 ug/L

RT: 2.785 min Scan# 465

Delta R.T. -0.003 min

Lab File: VU058161.D

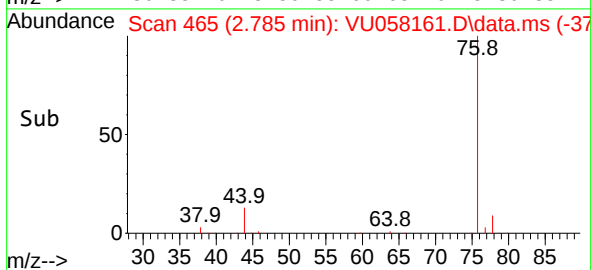
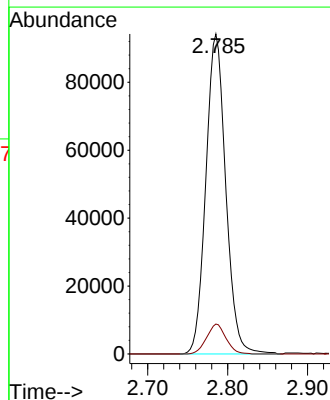
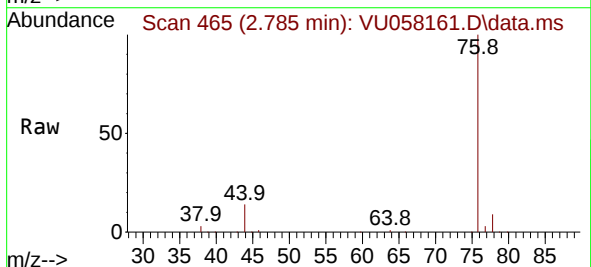
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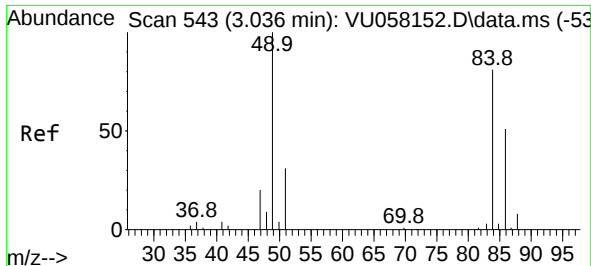
Tgt Ion: 76 Resp: 162941

Ion Ratio Lower Upper

76 100

78 9.5 7.3 10.9

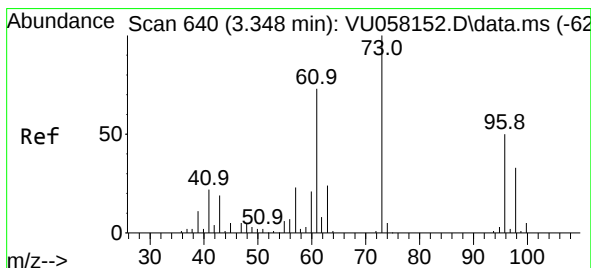
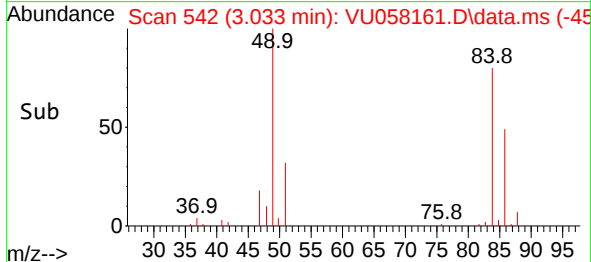
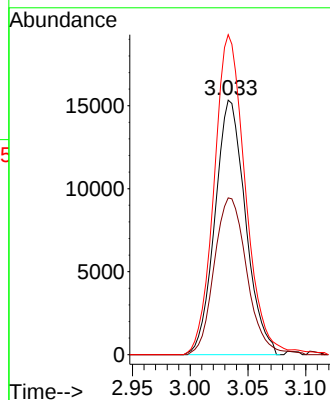
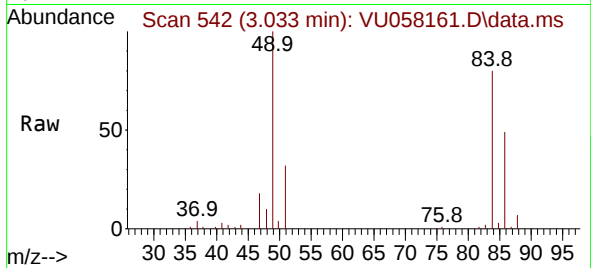




#16
Methylene chloride
Concen: 2.815 ug/L
RT: 3.033 min Scan# 54
Delta R.T. -0.003 min
Lab File: VU058161.D
Acq: 19 Mar 2024 17:37

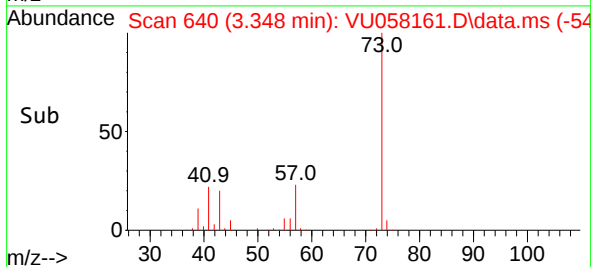
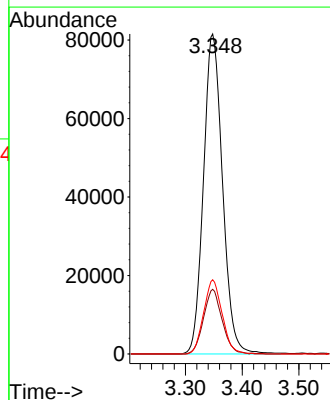
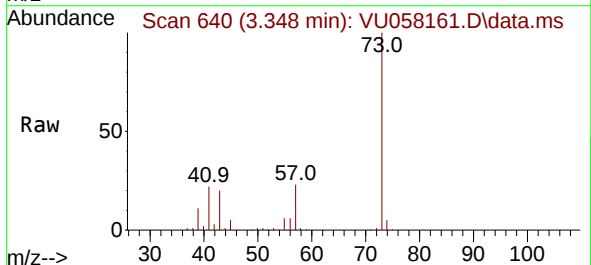
Instrument :
MSVOA_U
ClientSampleId :
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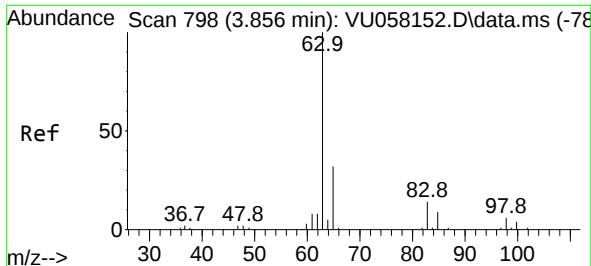
Tgt Ion: 84 Resp: 28260
Ion Ratio Lower Upper
84 100
86 61.6 44.4 82.4
49 130.9 88.8 165.0



#17
Methyl tert-butyl Ether
Concen: 9.768 ug/L
RT: 3.348 min Scan# 640
Delta R.T. 0.000 min
Lab File: VU058161.D
Acq: 19 Mar 2024 17:37

Tgt Ion: 73 Resp: 190790
Ion Ratio Lower Upper
73 100
43 19.6 16.2 24.4
57 22.5 17.9 26.9





#19

1,1-Dichloroethane

Concen: 10.888 ug/L

RT: 3.856 min Scan# 798

Delta R.T. 0.000 min

Lab File: VU058161.D

Acq: 19 Mar 2024 17:37

Instrument :

MSVOA_U

ClientSampleId :

GCFZ7

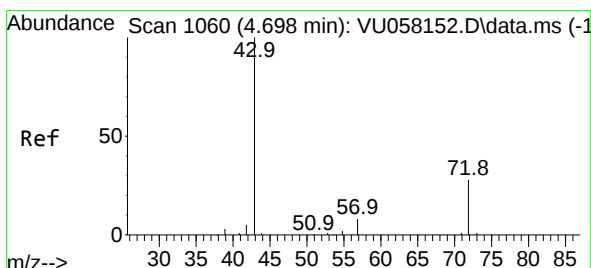
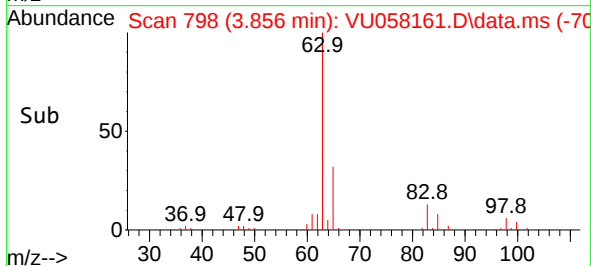
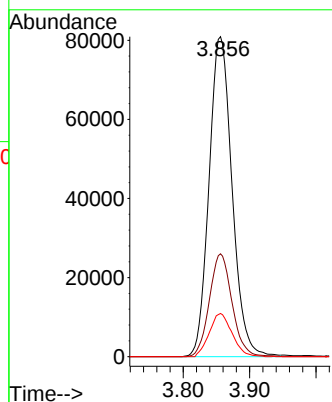
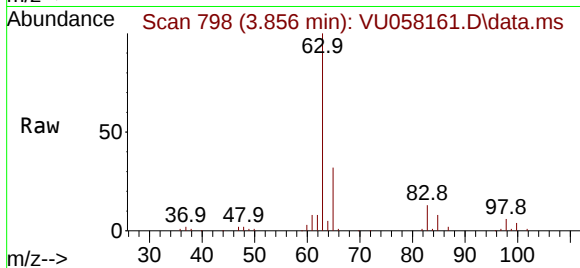
Tgt Ion: 63 Resp: 195401

Ion Ratio Lower Upper

63 100

65 32.2 22.1 41.1

83 13.5 9.0 16.6



#21

2-Butanone

Concen: 162.230 ug/L

RT: 4.686 min Scan# 1056

Delta R.T. -0.013 min

Lab File: VU058161.D

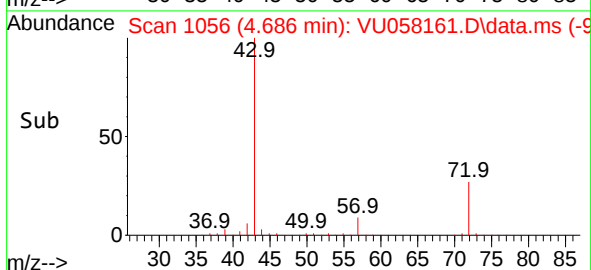
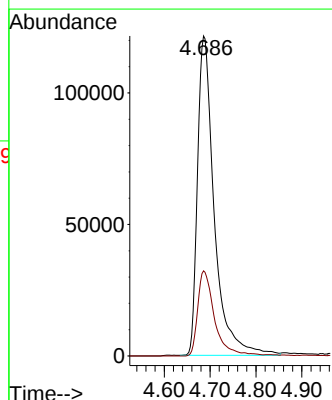
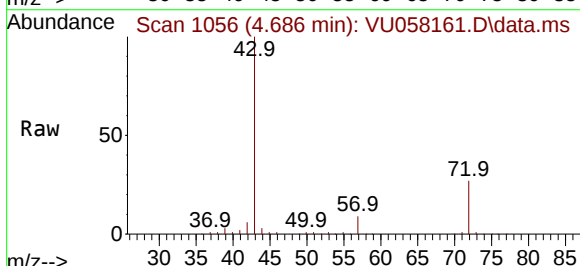
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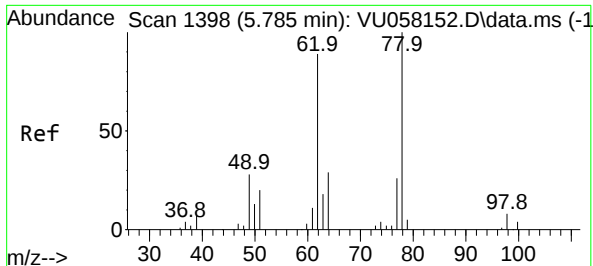
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Ion Ratio Lower Upper

43 100

72 26.0 13.0 39.0





#27

1,2-Dichloroethane

Concen: 8.651 ug/L

RT: 5.782 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU058161.D

Acq: 19 Mar 2024 17:37

Instrument :

MSVOA_U

ClientSampleId :

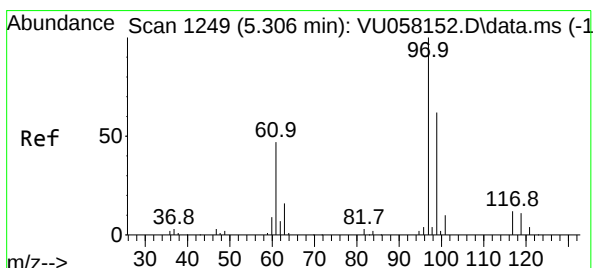
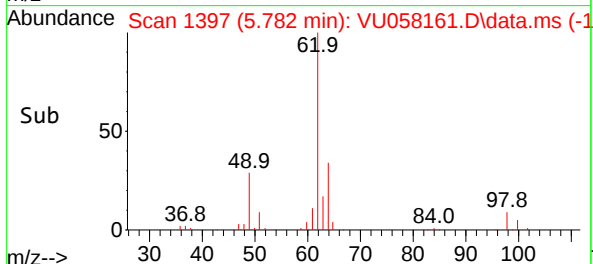
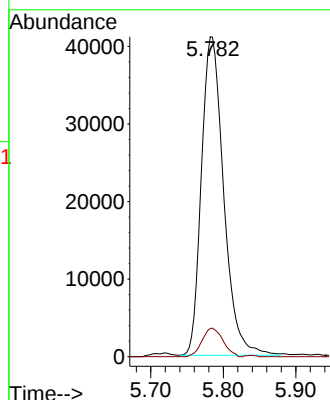
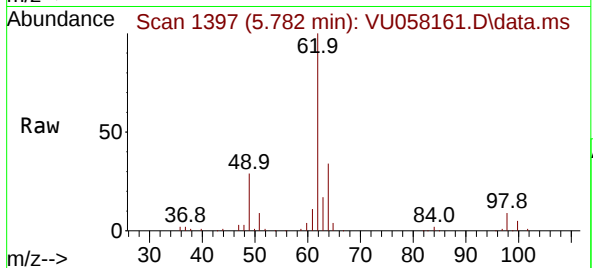
GCFZ7

Tgt Ion: 62 Resp: 87758

Ion Ratio Lower Upper

62 100

98 8.8 7.0 10.4



#29

1,1,1-Trichloroethane

Concen: 10.044 ug/L

RT: 5.306 min Scan# 1249

Delta R.T. 0.000 min

Lab File: VU058161.D

Acq: 19 Mar 2024 17:37

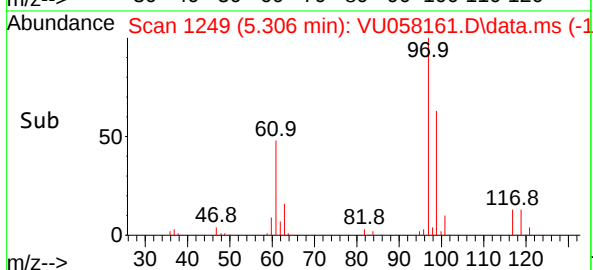
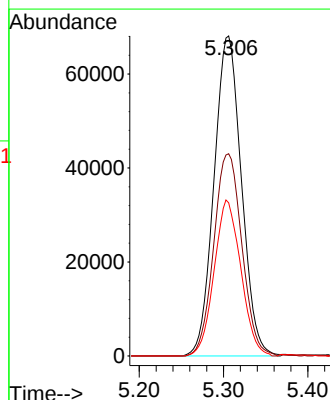
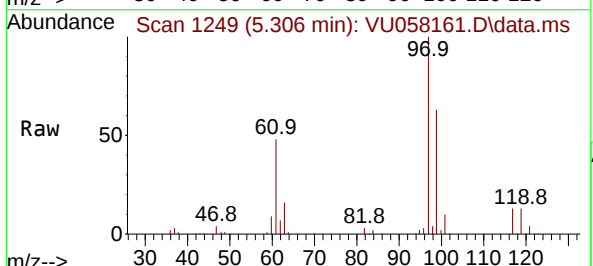
Tgt Ion: 97 Resp: 153934

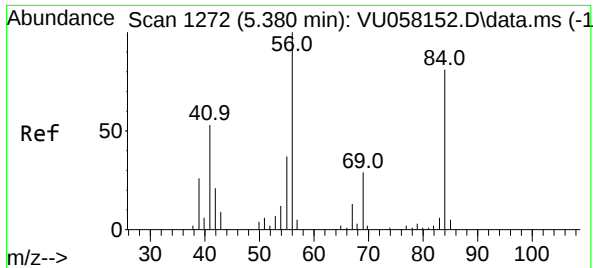
Ion Ratio Lower Upper

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99 64.8 51.2 76.8

61 47.4 37.4 56.2

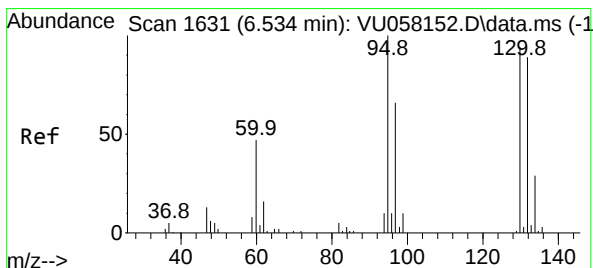
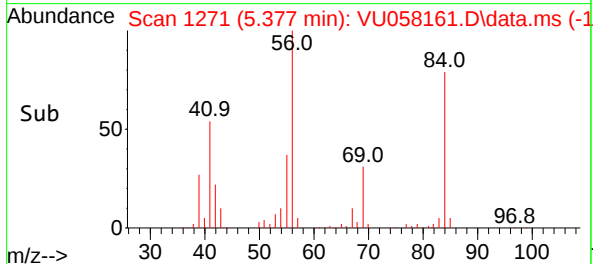
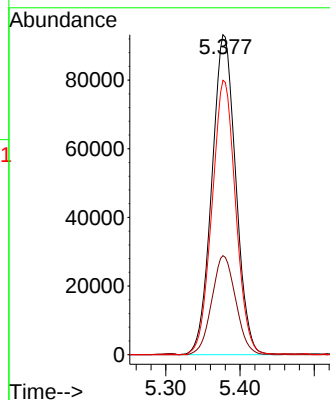
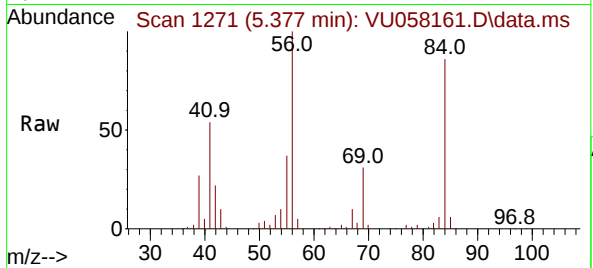




#30
Cyclohexane
Concen: 13.476 ug/L
RT: 5.377 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU058161.D
Acq: 19 Mar 2024 17:37

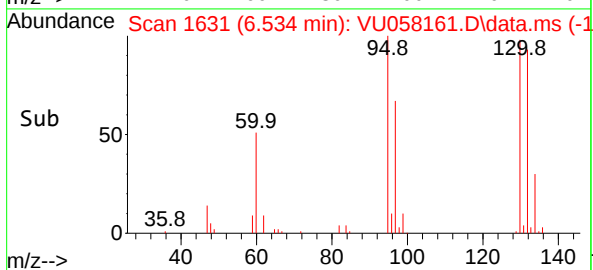
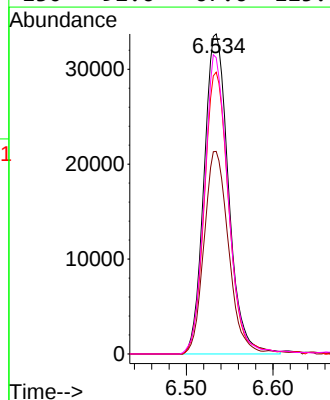
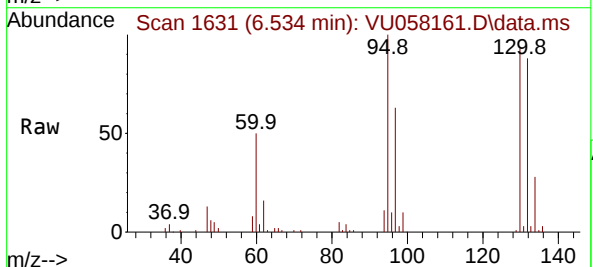
Instrument :
MSVOA_U
ClientSampleId :
GCFZ7

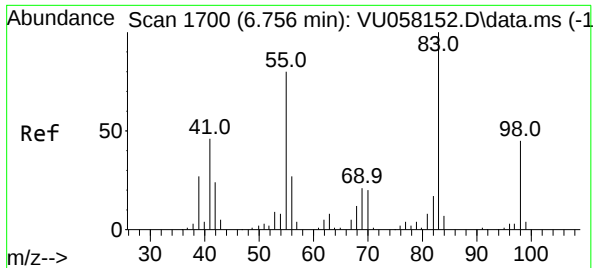
Tgt Ion: 56 Resp: 208565
Ion Ratio Lower Upper
56 100
69 31.0 24.2 36.2
84 84.8 66.6 99.8



#34
Trichloroethene
Concen: 6.349 ug/L
RT: 6.534 min Scan# 1631
Delta R.T. 0.000 min
Lab File: VU058161.D
Acq: 19 Mar 2024 17:37

Tgt Ion: 95 Resp: 66005
Ion Ratio Lower Upper
95 100
97 63.3 45.3 84.1
132 88.1 63.1 117.1
130 92.6 67.6 125.6

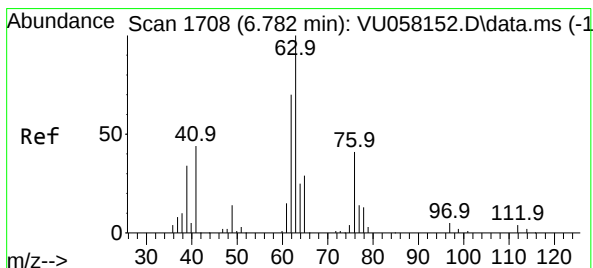
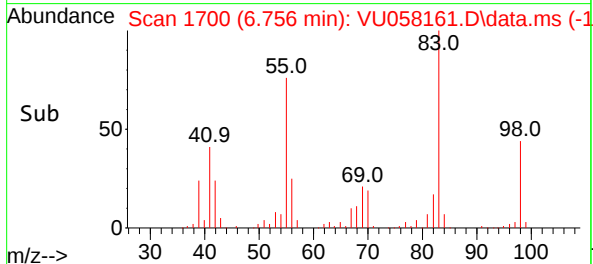
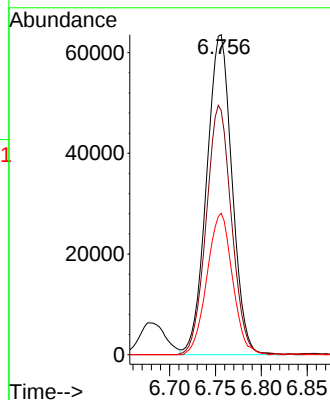
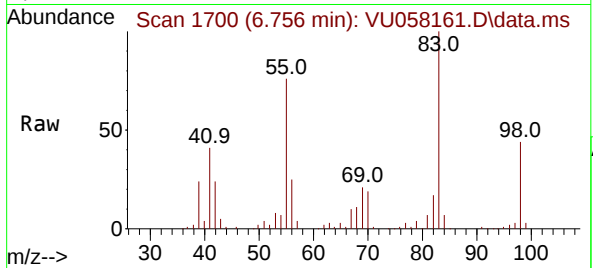




#35
Methylcyclohexane
Concen: 7.709 ug/L
RT: 6.756 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VU058161.D
Acq: 19 Mar 2024 17:37

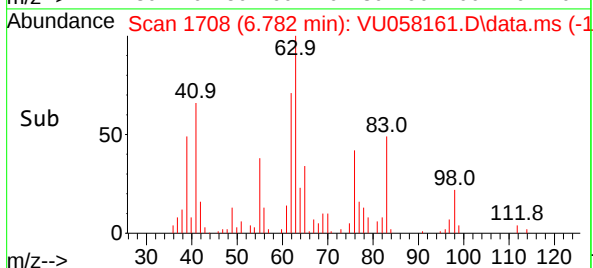
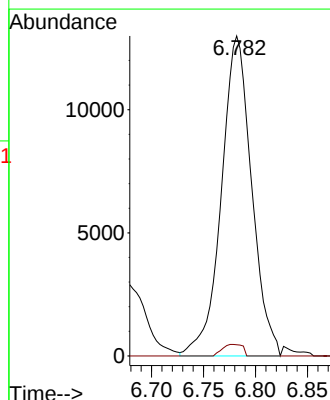
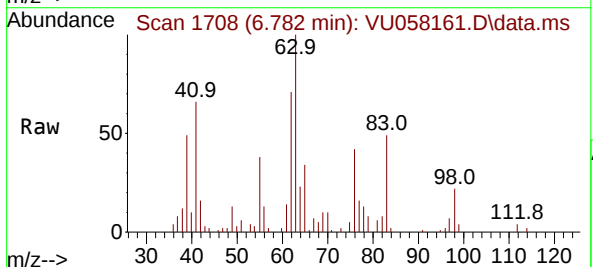
Instrument :
MSVOA_U
ClientSampleId :
GCFZ7

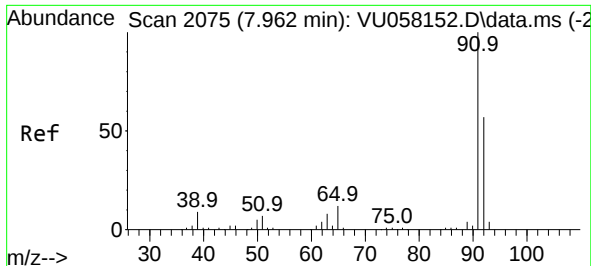
Tgt Ion: 83 Resp: 122856
Ion Ratio Lower Upper
83 100
55 77.5 63.0 94.6
98 44.3 36.2 54.4



#37
1,2-Dichloropropane
Concen: 2.584 ug/L
RT: 6.782 min Scan# 1708
Delta R.T. 0.000 min
Lab File: VU058161.D
Acq: 19 Mar 2024 17:37

Tgt Ion: 63 Resp: 26332
Ion Ratio Lower Upper
63 100
112 2.4 3.0 4.4#





#42

Toluene

Concen: 10.102 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. 0.000 min

Lab File: VU058161.D

Acq: 19 Mar 2024 17:37

Instrument :

MSVOA_U

ClientSampleId :

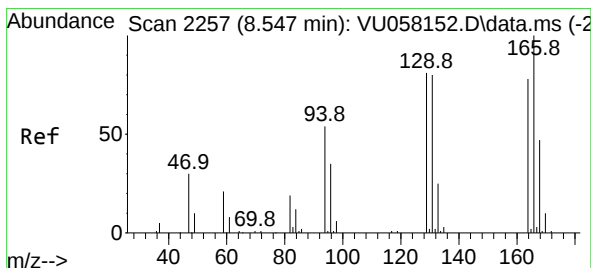
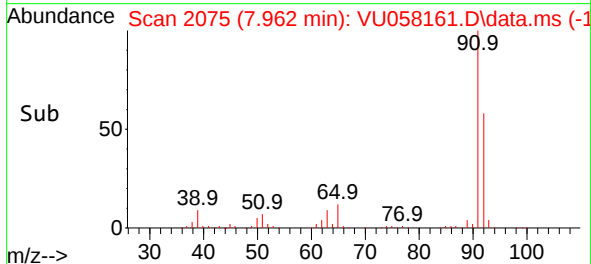
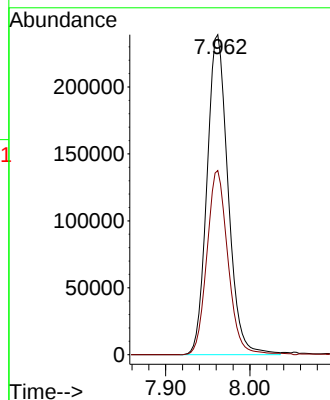
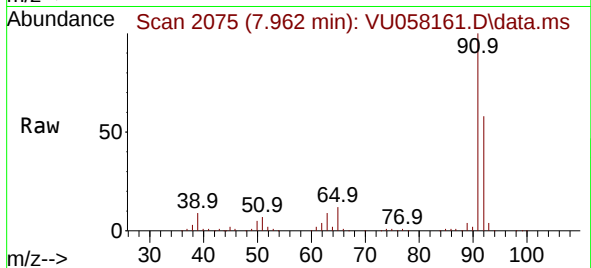
GCFZ7

Tgt Ion: 91 Resp: 415704

Ion Ratio Lower Upper

91 100

92 57.6 40.2 74.6



#47

Tetrachloroethene

Concen: 10.157 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. 0.000 min

Lab File: VU058161.D

Acq: 19 Mar 2024 17:37

Tgt Ion: 164 Resp: 73264

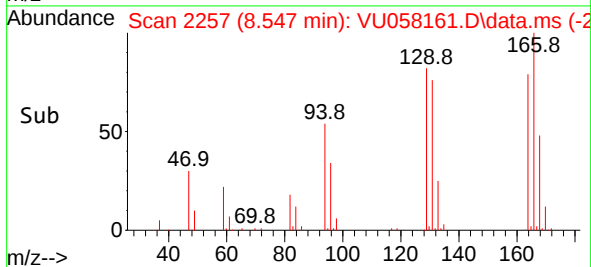
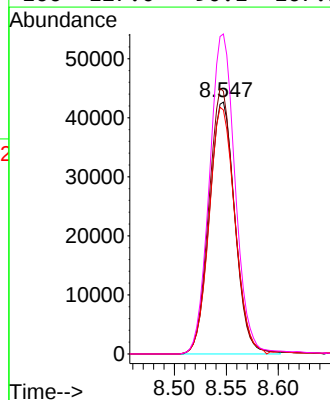
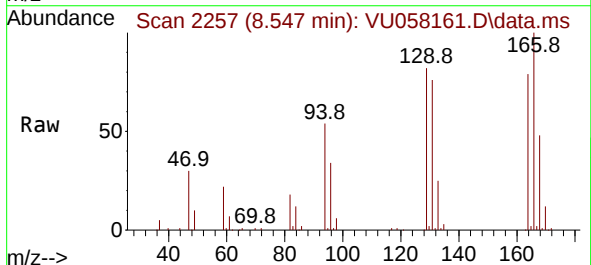
Ion Ratio Lower Upper

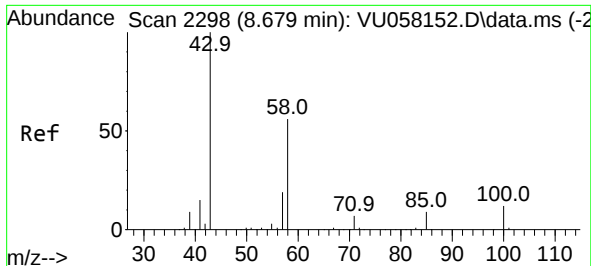
164 100

129 104.3 69.3 128.7

131 96.9 69.9 129.9

166 127.0 90.1 167.3

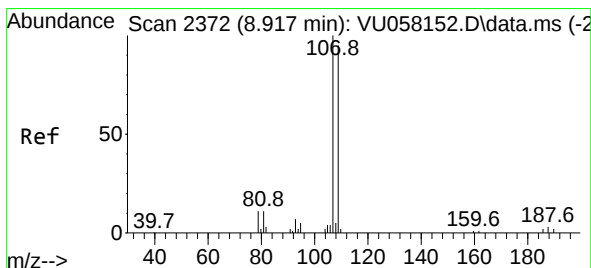
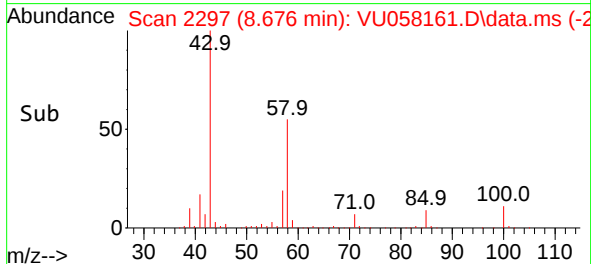
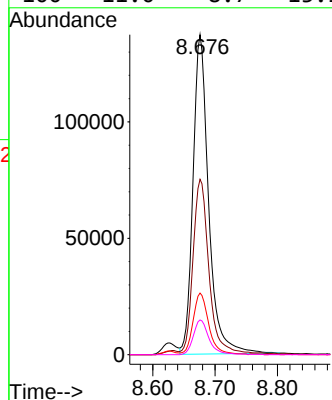
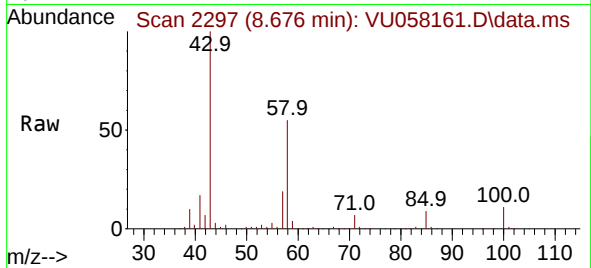




#48
2-Hexanone
Concen: 69.455 ug/L
RT: 8.676 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU058161.D
Acq: 19 Mar 2024 17:37

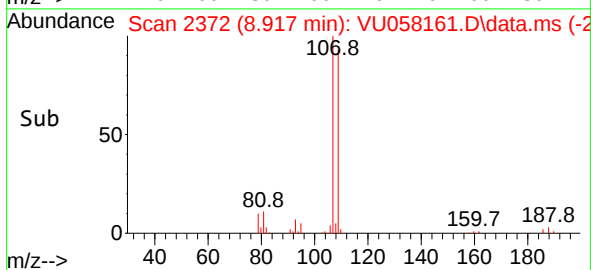
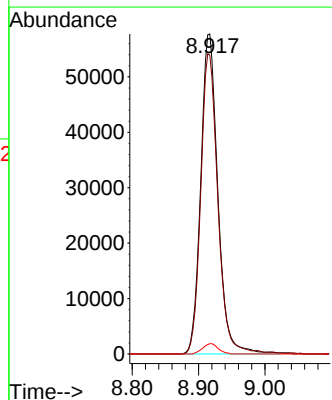
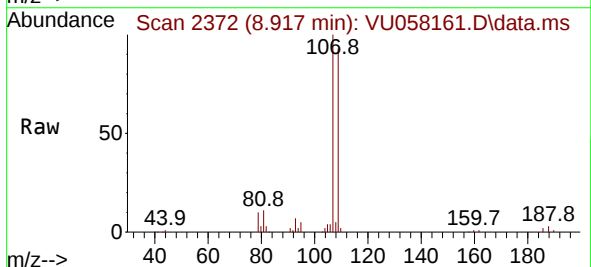
Instrument :
MSVOA_U
ClientSampleId :
GCFZ7

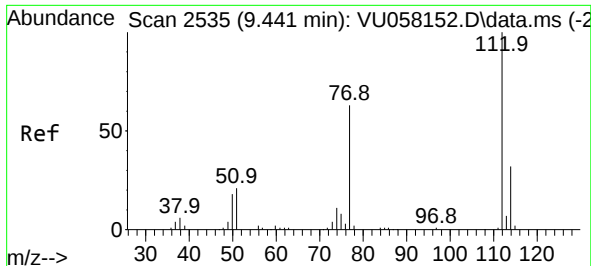
Tgt Ion: 43 Resp: 238748
Ion Ratio Lower Upper
43 100
58 55.0 43.3 64.9
57 19.5 15.2 22.8
100 11.0 8.7 13.1



#50
1,2-Dibromoethane
Concen: 19.333 ug/L
RT: 8.917 min Scan# 2372
Delta R.T. 0.000 min
Lab File: VU058161.D
Acq: 19 Mar 2024 17:37

Tgt Ion: 107 Resp: 103661
Ion Ratio Lower Upper
107 100
109 93.4 67.8 125.8
188 3.2 2.4 3.6

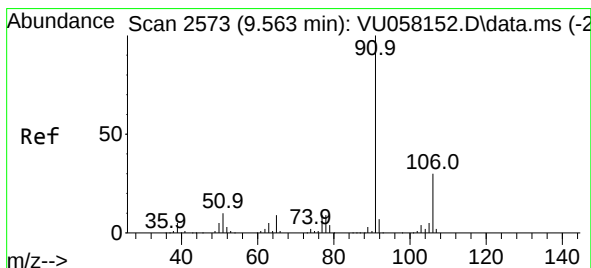
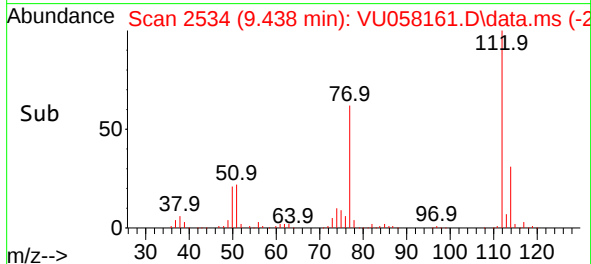
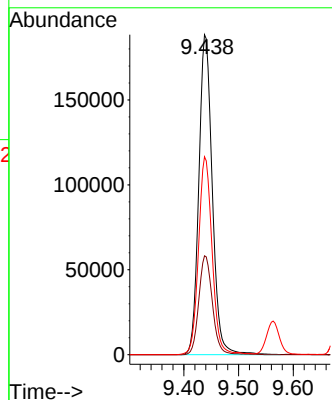
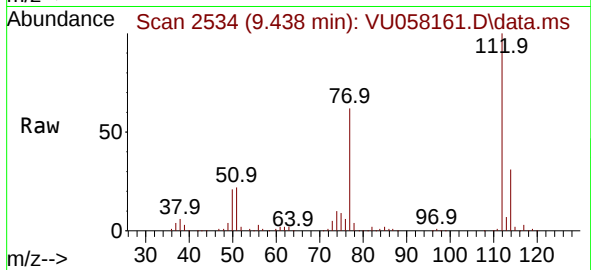




#51
Chlorobenzene
Concen: 12.468 ug/L
RT: 9.438 min Scan# 2534
Delta R.T. -0.003 min
Lab File: VU058161.D
Acq: 19 Mar 2024 17:37

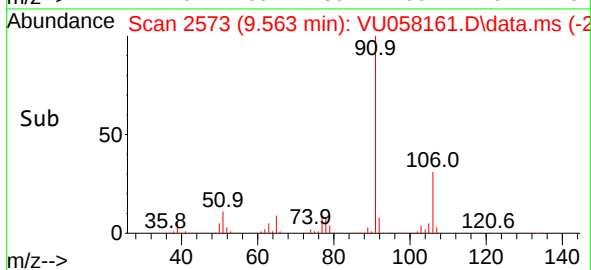
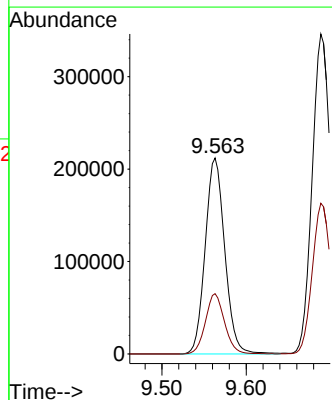
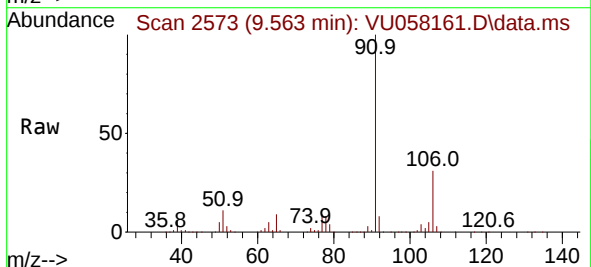
Instrument :
MSVOA_U
ClientSampleId :
GCFZ7

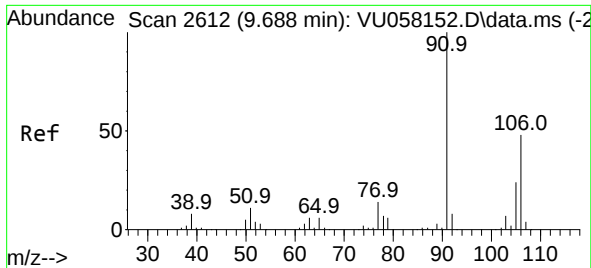
Tgt Ion:112 Resp: 321743
Ion Ratio Lower Upper
112 100
114 30.9 22.7 42.1
77 61.8 52.3 78.5



#52
Ethylbenzene
Concen: 7.457 ug/L
RT: 9.563 min Scan# 2573
Delta R.T. 0.000 min
Lab File: VU058161.D
Acq: 19 Mar 2024 17:37

Tgt Ion: 91 Resp: 343388
Ion Ratio Lower Upper
91 100
106 30.8 20.9 38.7

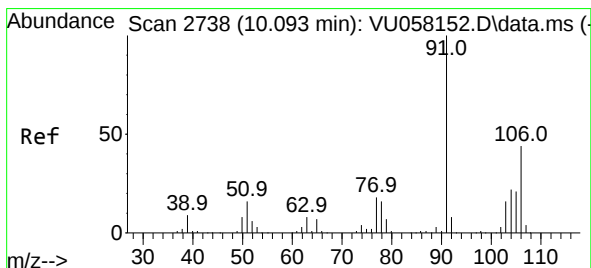
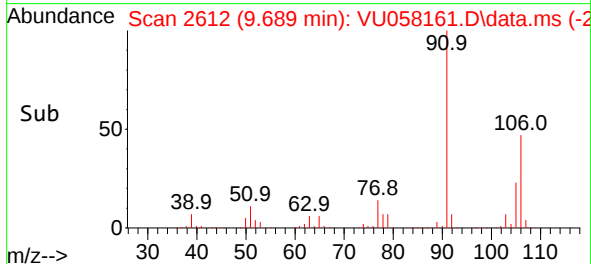
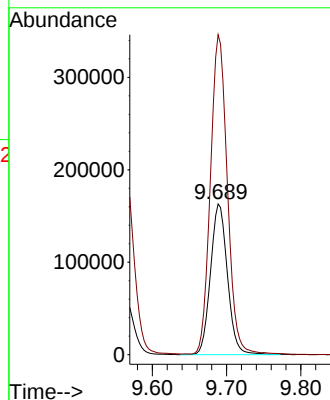
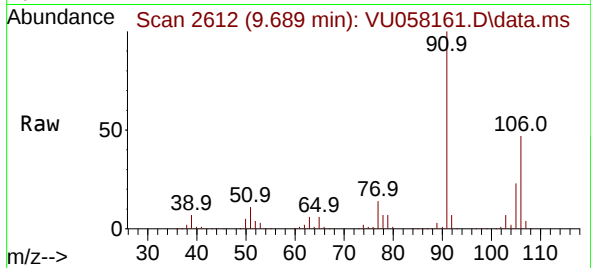




#53
m,p-Xylene
Concen: 15.643 ug/L
RT: 9.689 min Scan# 2612
Delta R.T. 0.000 min
Lab File: VU058161.D
Acq: 19 Mar 2024 17:37

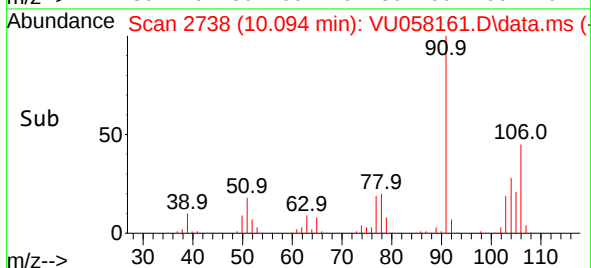
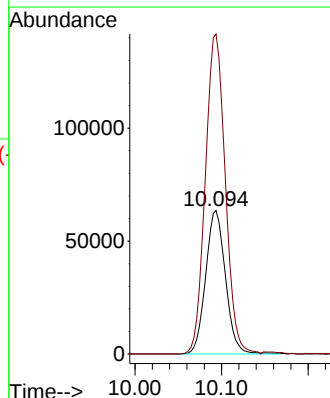
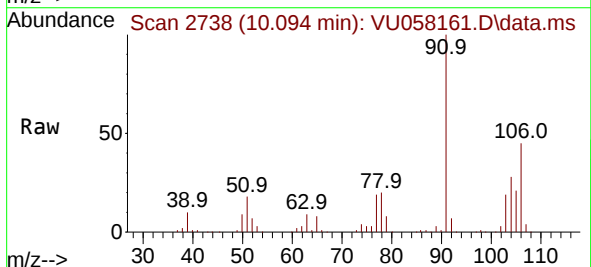
Instrument :
MSVOA_U
ClientSampleId :
GCFZ7

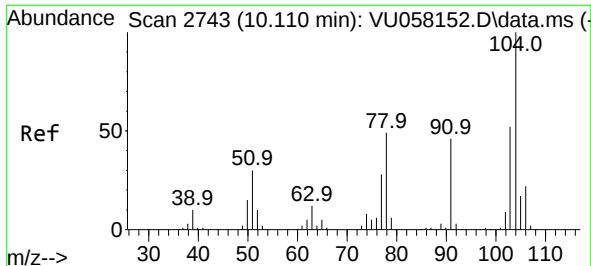
Tgt Ion:106 Resp: 257362
Ion Ratio Lower Upper
106 100
91 212.3 148.8 276.4



#54
o-Xylene
Concen: 6.158 ug/L
RT: 10.094 min Scan# 2738
Delta R.T. 0.000 min
Lab File: VU058161.D
Acq: 19 Mar 2024 17:37

Tgt Ion:106 Resp: 100982
Ion Ratio Lower Upper
106 100
91 223.1 158.3 294.1

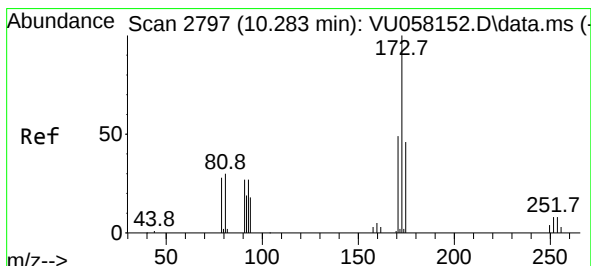
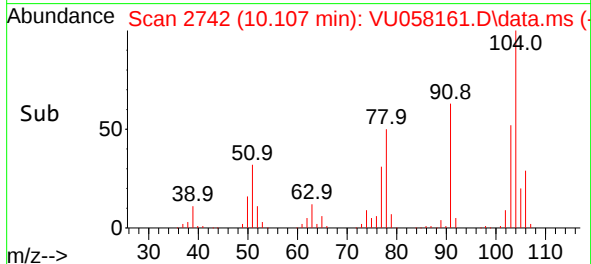
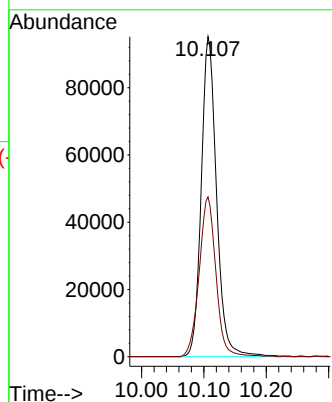
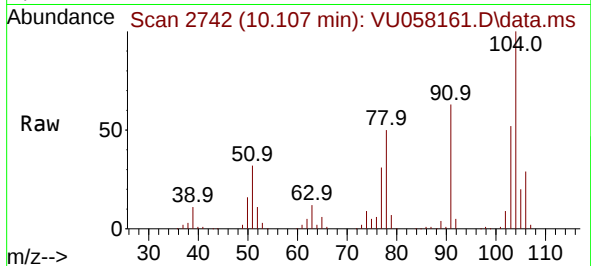




#55
Styrene
Concen: 6.327 ug/L
RT: 10.107 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU058161.D
Acq: 19 Mar 2024 17:37

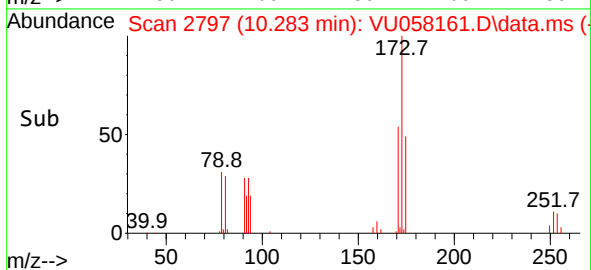
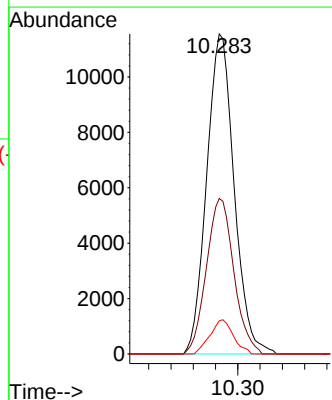
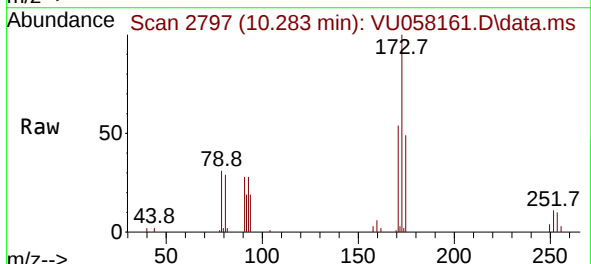
Instrument :
MSVOA_U
ClientSampleId :
GCFZ7

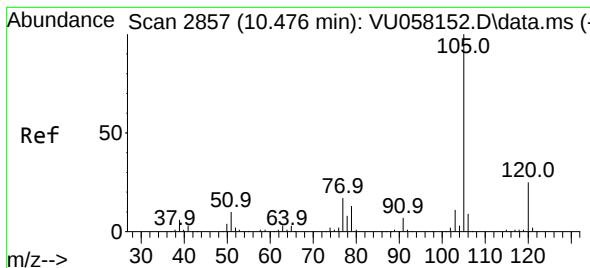
Tgt Ion:104 Resp: 162847
Ion Ratio Lower Upper
104 100
78 49.9 34.2 63.4



#59
Bromoform
Concen: 6.025 ug/L
RT: 10.283 min Scan# 2797
Delta R.T. 0.000 min
Lab File: VU058161.D
Acq: 19 Mar 2024 17:37

Tgt Ion:173 Resp: 19740
Ion Ratio Lower Upper
173 100
175 48.6 38.6 57.8
254 9.1 7.3 10.9





#60

Isopropylbenzene

Concen: 4.257 ug/L

RT: 10.476 min Scan# 2857

Delta R.T. 0.000 min

Lab File: VU058161.D

Acq: 19 Mar 2024 17:37

Instrument :

MSVOA_U

ClientSampleId :

GCFZ7

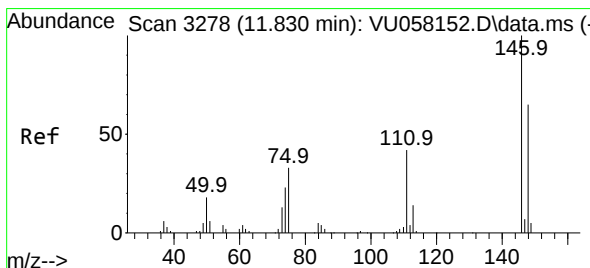
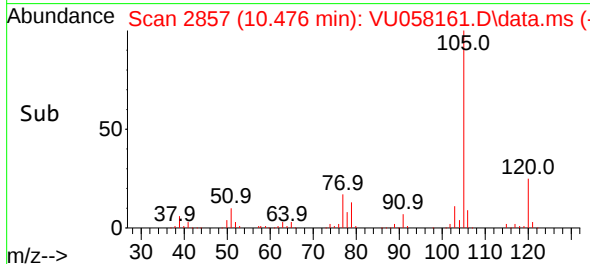
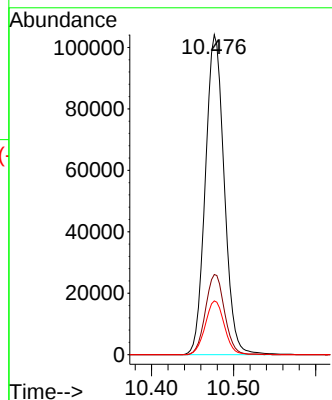
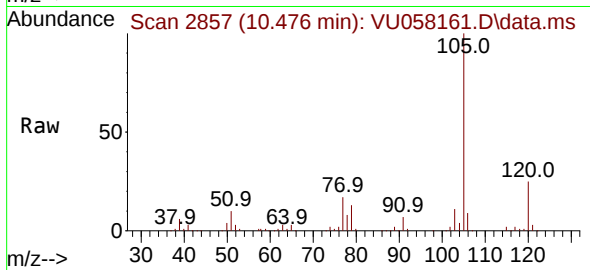
Tgt Ion:105 Resp: 166559

Ion Ratio Lower Upper

105 100

120 25.4 20.4 30.6

77 17.1 13.2 19.8



#65

1,4-Dichlorobenzene

Concen: 4.850 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. 0.000 min

Lab File: VU058161.D

Acq: 19 Mar 2024 17:37

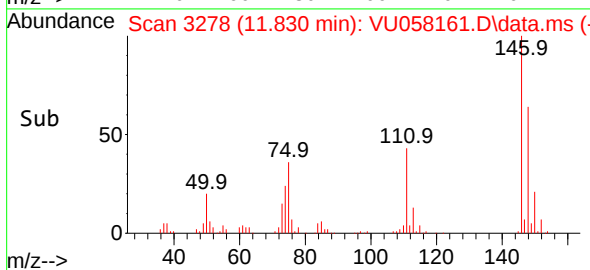
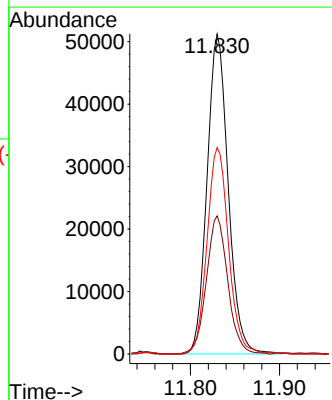
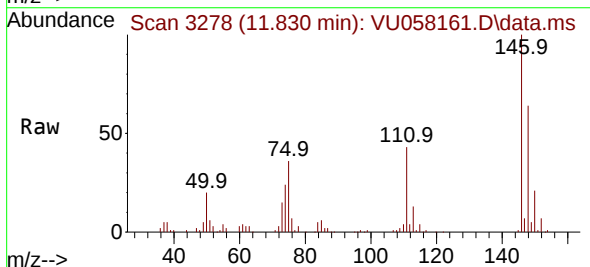
Tgt Ion:146 Resp: 84419

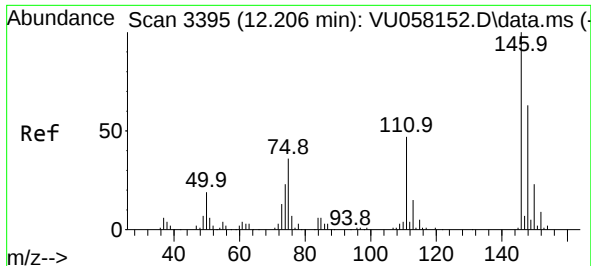
Ion Ratio Lower Upper

146 100

111 43.2 30.1 55.9

148 64.5 45.0 83.6





#67

1,2-Dichlorobenzene

Concen: 14.272 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. 0.000 min

Lab File: VU058161.D

Acq: 19 Mar 2024 17:37

Instrument :

MSVOA_U

ClientSampleId :

GCFZ7

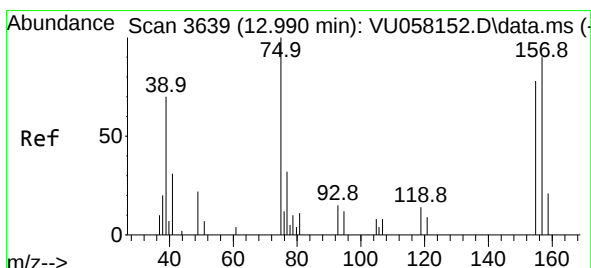
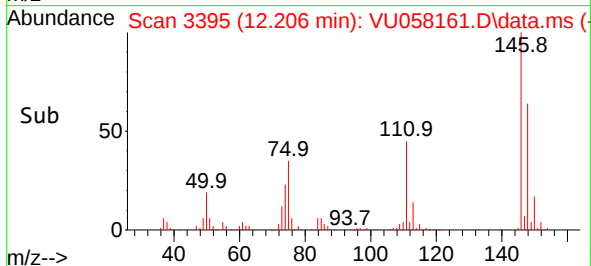
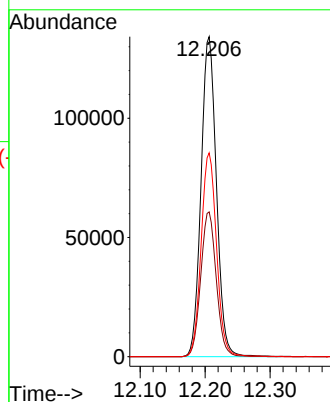
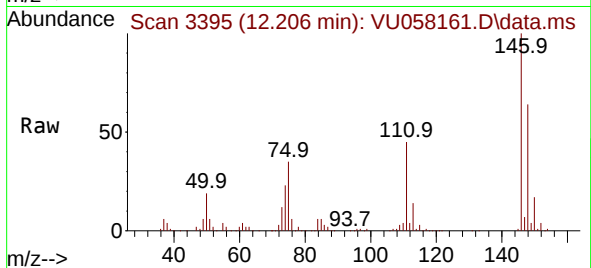
Tgt Ion:146 Resp: 221595

Ion Ratio Lower Upper

146 100

111 45.3 37.4 56.0

148 63.7 50.8 76.2



#68

1,2-Dibromo-3-chloropropane

Concen: 4.719 ug/L

RT: 12.991 min Scan# 3639

Delta R.T. 0.000 min

Lab File: VU058161.D

Acq: 19 Mar 2024 17:37

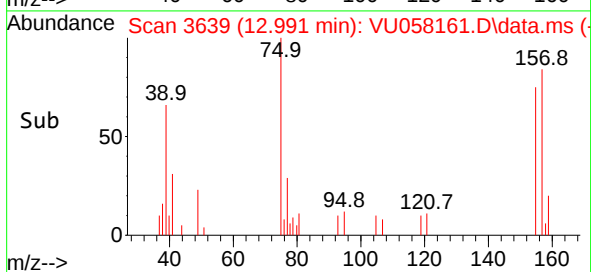
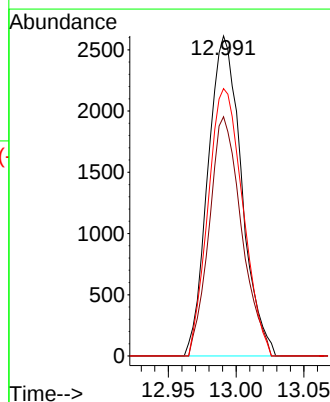
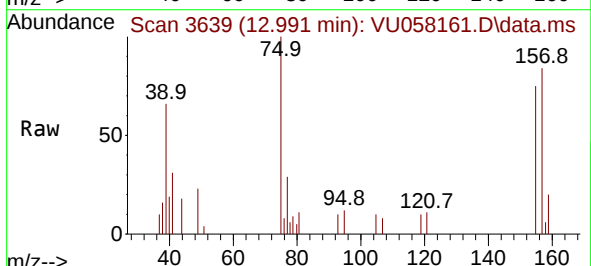
Tgt Ion: 75 Resp: 4506

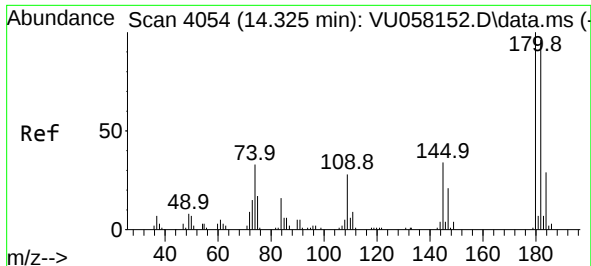
Ion Ratio Lower Upper

75 100

155 74.8 61.0 91.6

157 83.5 74.6 112.0





#72
 1,2,3-Trichlorobenzene
 Concen: 11.443 ug/L
 RT: 14.325 min Scan# 4054
 Delta R.T. 0.000 min
 Lab File: VU058161.D
 Acq: 19 Mar 2024 17:37

Instrument :
 MSVOA_U
 ClientSampleId :
 GCFZ7

Tgt Ion:180 Resp: 86881
 Ion Ratio Lower Upper
 180 100
 182 96.8 77.6 116.4
 145 34.7 28.7 43.1

