

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102023\
 Data File : VU055843.D
 Acq On : 20 Oct 2023 19:28
 Operator : MD/SY
 Sample : 04947-02MS
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 E45J0MS

Quant Time: Oct 23 01:10:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM101023WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Oct 23 01:04:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	506490	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	509302	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	290492	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.599	65	159410	35.089	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	70.180%
7) Chloroethane-d5	1.888	69	144928	39.027	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	78.060%
11) 1,1-Dichloroethene-d2	2.560	63	325553	40.189	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.380%
21) 2-Butanone-d5	4.612	46	260141	77.278	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	77.280%
24) Chloroform-d	5.055	84	370501	42.541	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.080%
26) 1,2-Dichloroethane-d4	5.695	65	233260	43.512	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.020%
32) Benzene-d6	5.721	84	706093	43.331	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.660%
36) 1,2-Dichloropropane-d6	6.682	67	223865	43.395	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	86.780%
41) Toluene-d8	7.894	98	630437	42.846	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.700%
43) trans-1,3-Dichloroprop...	8.174	79	103816	41.893	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.780%
47) 2-Hexanone-d5	8.631	63	147730	72.843	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	72.840%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	389722	49.080	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.160%
66) 1,2-Dichlorobenzene-d4	12.190	152	277782	48.187	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.380%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.380	85	183928	43.613	ug/L	98
3) Chloromethane	1.518	50	204397	51.221	ug/L	99
5) Vinyl chloride	1.602	62	220012	50.099	ug/L	98
6) Bromomethane	1.830	94	81928	29.183	ug/L	99
8) Chloroethane	1.911	64	140047	48.618	ug/L	99
9) Trichlorofluoromethane	2.126	101	300399	47.877	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.573	101	179765	44.550	ug/L	99
12) 1,1-Dichloroethene	2.573	96	174090	48.483	ug/L	87
13) Acetone	2.618	43	191503	61.303	ug/L	97
14) Carbon disulfide	2.785	76	479782	43.907	ug/L	98
15) Methyl Acetate	2.940	43	202688	42.367	ug/L	96
16) Methylene chloride	3.036	84	217454	49.938	ug/L	93
17) trans-1,2-Dichloroethene	3.345	96	182322	49.656	ug/L	94
18) Methyl tert-butyl Ether	3.354	73	640032	54.202	ug/L	99
19) 1,1-Dichloroethane	3.859	63	374357	49.717	ug/L	98
20) cis-1,2-Dichloroethene	4.660	96	218673	52.183	ug/L	97
22) 2-Butanone	4.695	43	304987	81.000	ug/L	99
23) Bromochloromethane	4.965	128	110409	50.874	ug/L	97
25) Chloroform	5.081	83	390621	49.660	ug/L	99

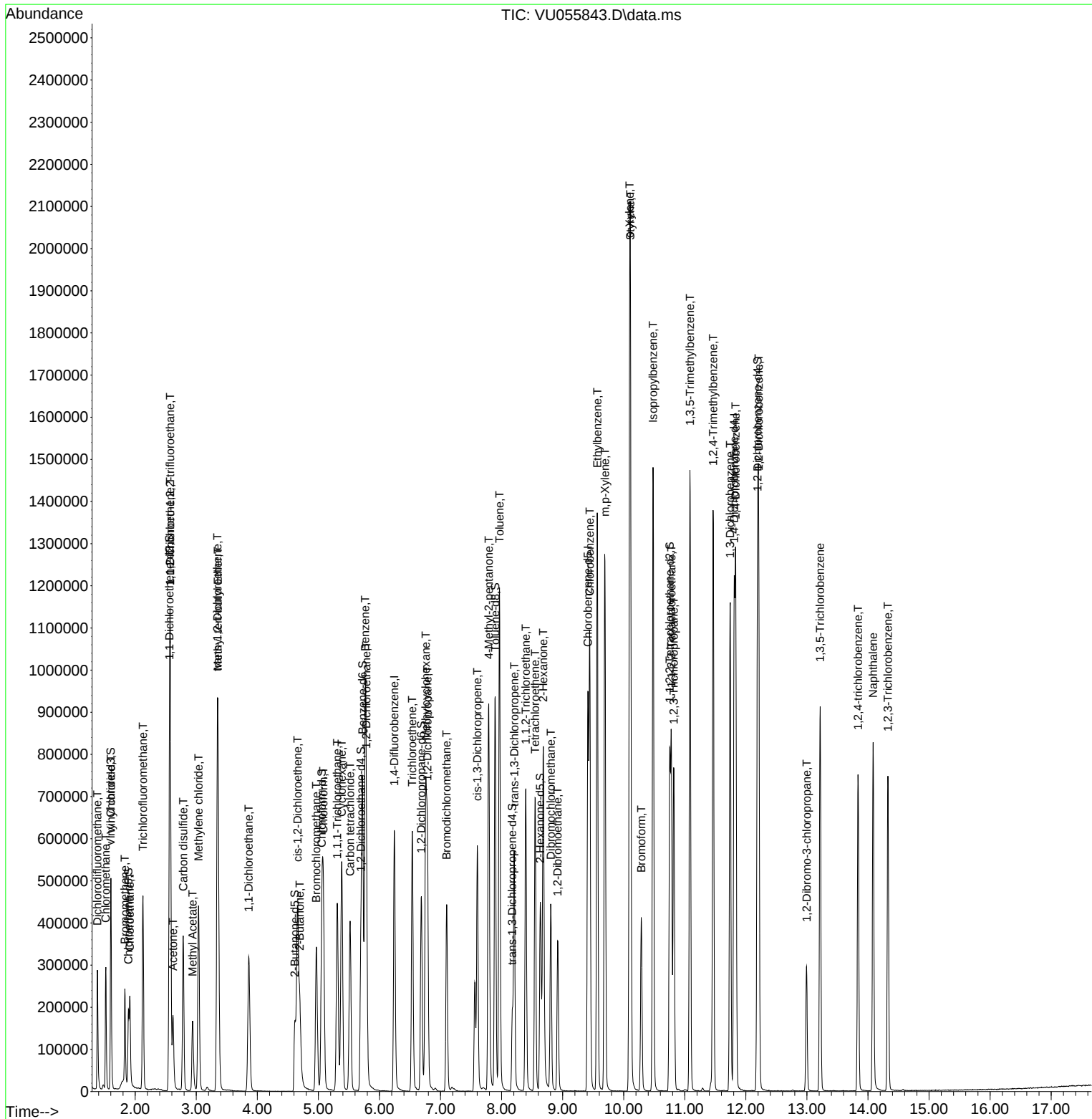
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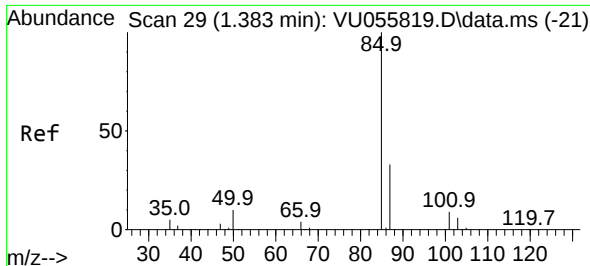
Instrument :
 MSVOA_U
 ClientSampleId :
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Quant Time: Oct 23 01:10:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM101023WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Oct 23 01:04:15 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.785	62	315581	50.163	ug/L	100
29) Cyclohexane	5.380	56	277051	47.459	ug/L	99
30) 1,1,1-Trichloroethane	5.309	97	327214	49.729	ug/L	99
31) Carbon tetrachloride	5.518	117	280551	48.711	ug/L	98
33) Benzene	5.766	78	818924	50.867	ug/L	100
34) Trichloroethene	6.538	95	220157	49.978	ug/L	98
35) Methylcyclohexane	6.756	83	287694	45.013	ug/L	99
37) 1,2-Dichloropropane	6.785	63	226609	51.116	ug/L	100
38) Bromodichloromethane	7.100	83	290395	49.672	ug/L	98
39) cis-1,3-Dichloropropene	7.602	75	351603	52.132	ug/L	99
40) 4-Methyl-2-pentanone	7.788	43	635715	103.077	ug/L	97
42) Toluene	7.965	91	871110	51.278	ug/L	99
44) trans-1,3-Dichloropropene	8.206	75	329145	51.005	ug/L	100
45) 1,1,2-Trichloroethane	8.396	97	227307	51.999	ug/L	98
46) Tetrachloroethene	8.550	164	152004	48.195	ug/L	99
48) 2-Hexanone	8.682	43	518120	99.459	ug/L	94
49) Dibromochloromethane	8.804	129	228914	51.251	ug/L	99
50) 1,2-Dibromoethane	8.917	107	236754	50.424	ug/L	98
51) Chlorobenzene	9.444	112	561312	51.069	ug/L	99
52) Ethylbenzene	9.566	91	962551	51.827	ug/L	100
53) m,p-Xylene	9.692	106	371865	53.444	ug/L	97
54) o-Xylene	10.097	106	375127	55.713	ug/L	100
55) Styrene	10.110	104	651279	57.098	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.779	83	412915	55.165	ug/L	98
59) Bromoform	10.287	173	187806	52.518	ug/L	96
60) 1,2,3-Trichloropropane	10.820	75	328631	52.126	ug/L	98
61) Isopropylbenzene	10.480	105	964791	53.275	ug/L	99
62) 1,3,5-Trimethylbenzene	11.084	105	813803	55.536	ug/L	99
63) 1,2,4-Trimethylbenzene	11.463	105	765772	52.849	ug/L	100
64) 1,3-Dichlorobenzene	11.743	146	469072	52.397	ug/L	99
65) 1,4-Dichlorobenzene	11.833	146	464942	50.514	ug/L	99
67) 1,2-Dichlorobenzene	12.209	146	475183	53.487	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.994	75	80439	42.677	ug/L	97
69) 1,3,5-Trichlorobenzene	13.216	180	278478	46.635	ug/L	100
70) 1,2,4-trichlorobenzene	13.836	180	222164	44.666	ug/L	98
71) Naphthalene	14.084	128	666083	45.081	ug/L	100
72) 1,2,3-Trichlorobenzene	14.325	180	223609	45.598	ug/L	97

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

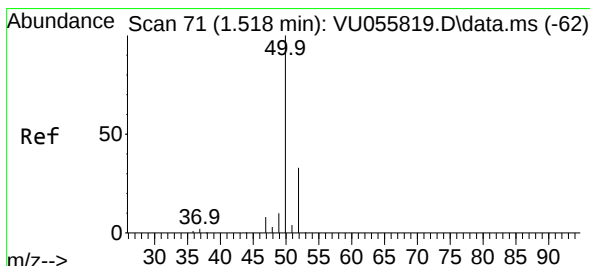
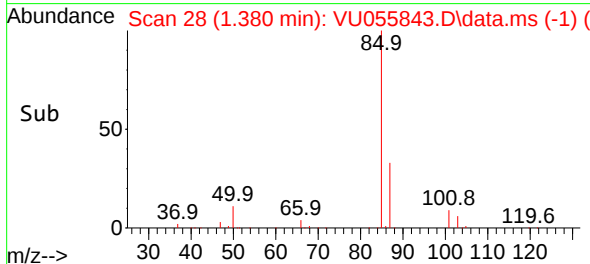
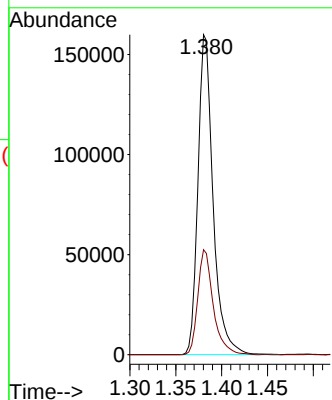
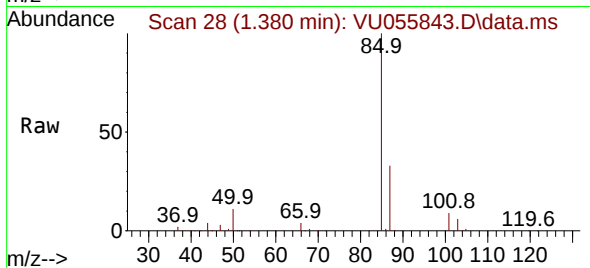




#2
 Dichlorodifluoromethane
 Concen: 43.613 ug/L
 RT: 1.380 min Scan# 29
 Delta R.T. -0.003 min
 Lab File: VU055843.D
 Acq: 20 Oct 2023 19:28

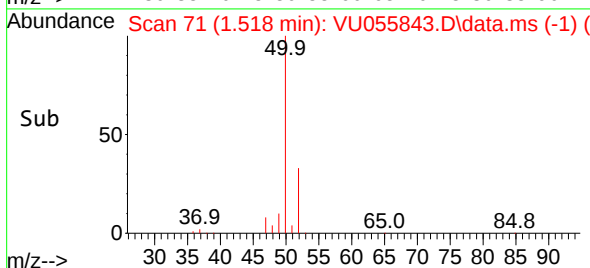
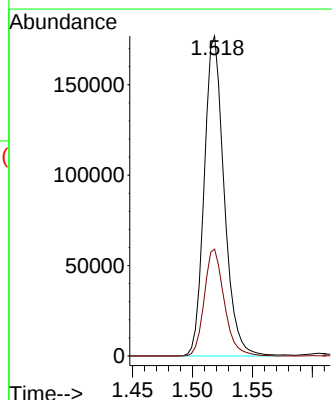
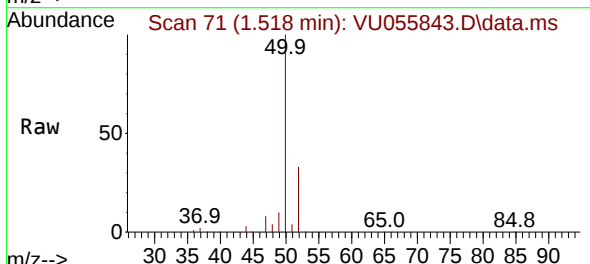
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 MSVOA_U
 ClientSampleId :
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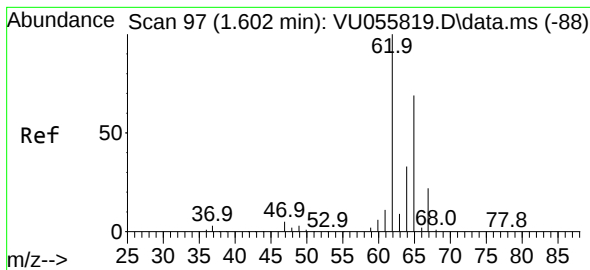
Tgt Ion: 85 Resp: 183928
 Ion Ratio Lower Upper
 85 100
 87 33.4 26.0 39.0



#3
 Chloromethane
 Concen: 51.221 ug/L
 RT: 1.518 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: VU055843.D
 Acq: 20 Oct 2023 19:28

Tgt Ion: 50 Resp: 204397
 Ion Ratio Lower Upper
 50 100
 52 33.4 22.8 42.4





#5

Vinyl chloride

Concen: 50.099 ug/L

RT: 1.602 min Scan# 91

Delta R.T. 0.000 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Instrument :

MSVOA_U

ClientSampleId :

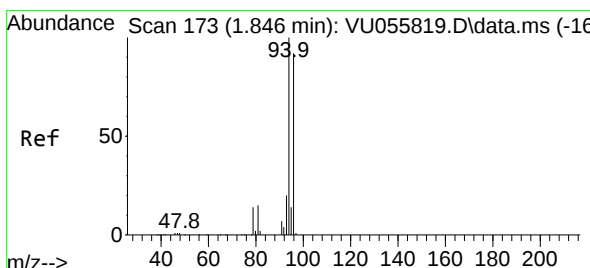
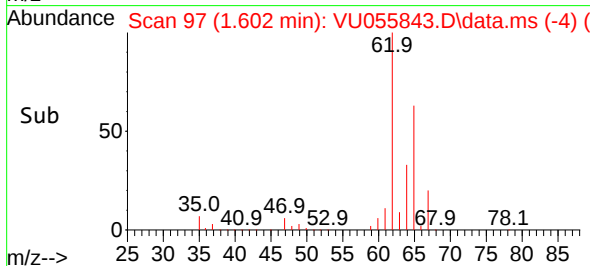
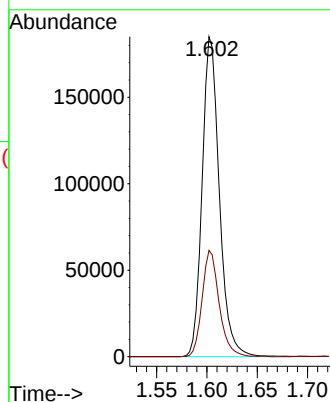
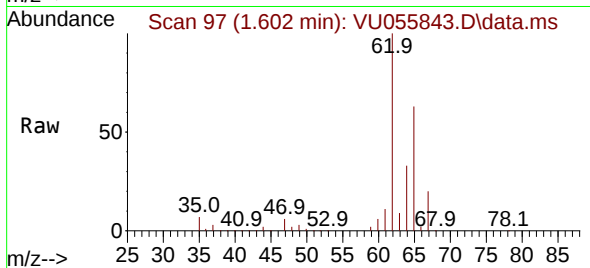
E45J0MS

Tgt Ion: 62 Resp: 220012

Ion Ratio Lower Upper

62 100

64 33.2 23.9 44.5



#6

Bromomethane

Concen: 29.183 ug/L

RT: 1.830 min Scan# 168

Delta R.T. -0.016 min

Lab File: VU055843.D

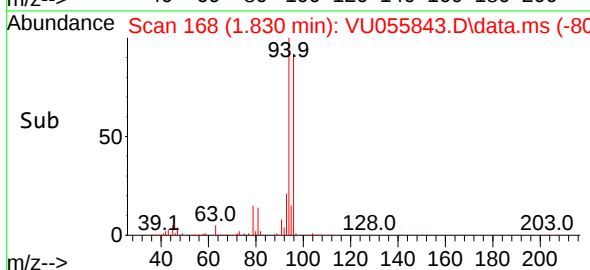
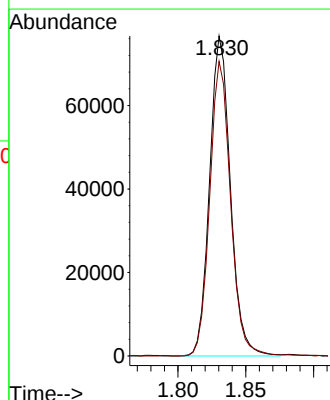
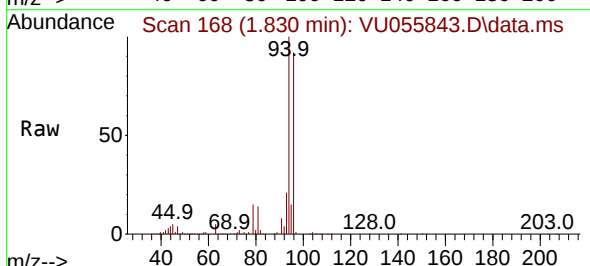
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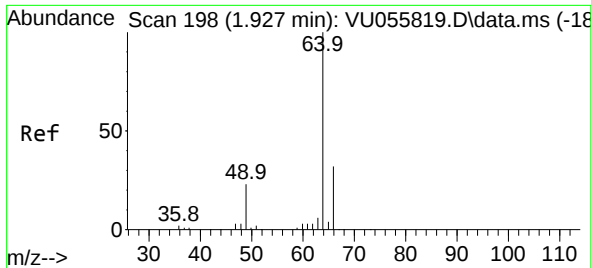
Tgt Ion: 94 Resp: 81928

Ion Ratio Lower Upper

94 100

96 92.1 63.5 117.9

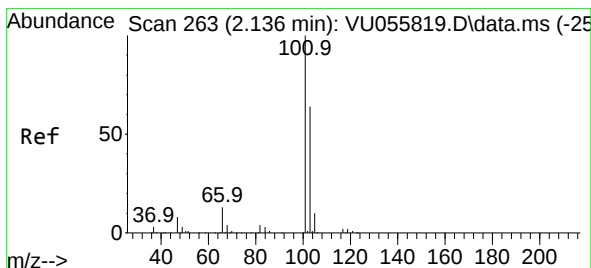
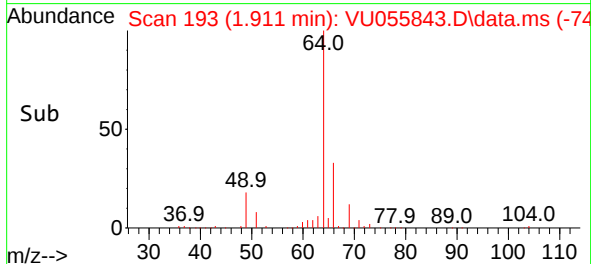
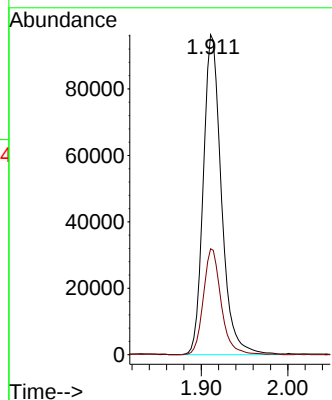
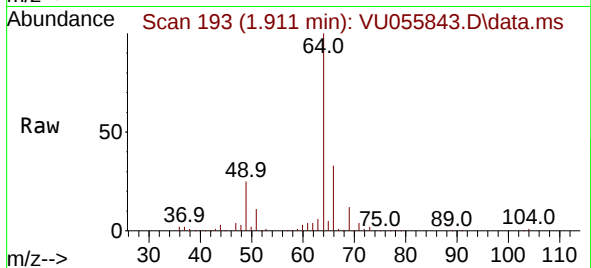




#8
Chloroethane
Concen: 48.618 ug/L
RT: 1.911 min Scan# 19
Delta R.T. -0.016 min
Lab File: VU055843.D
Acq: 20 Oct 2023 19:28

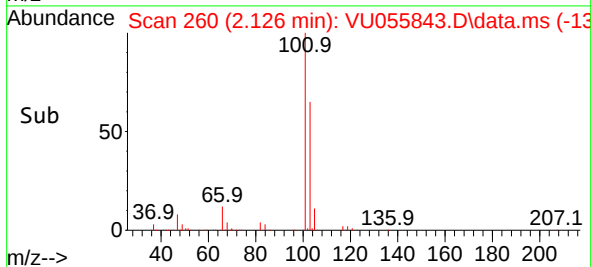
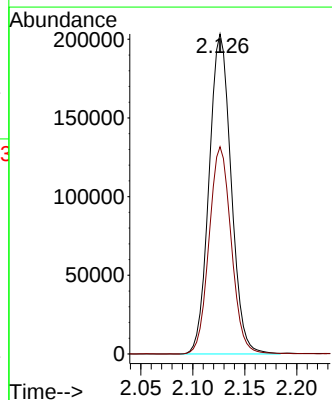
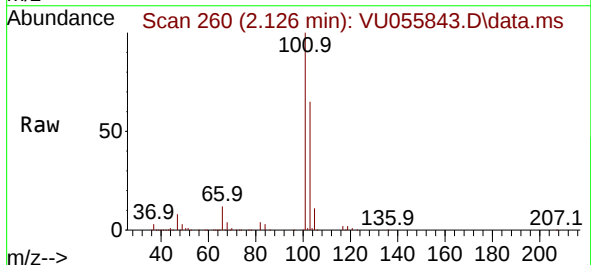
Instrument :
MSVOA_U
ClientSampleId :
E45J0MS

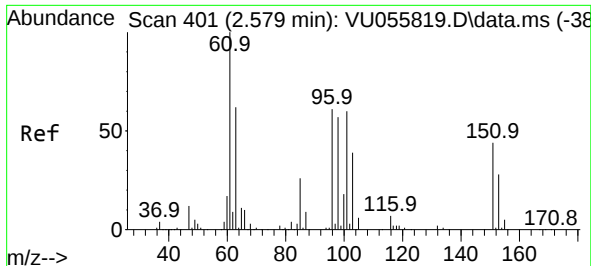
Tgt Ion: 64 Resp: 140047
Ion Ratio Lower Upper
64 100
66 33.1 22.9 42.5



#9
Trichlorofluoromethane
Concen: 47.877 ug/L
RT: 2.126 min Scan# 260
Delta R.T. -0.010 min
Lab File: VU055843.D
Acq: 20 Oct 2023 19:28

Tgt Ion:101 Resp: 300399
Ion Ratio Lower Upper
101 100
103 65.0 51.3 76.9

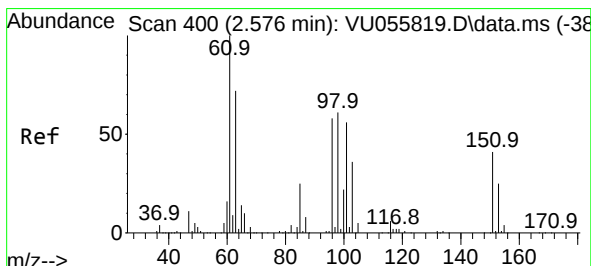
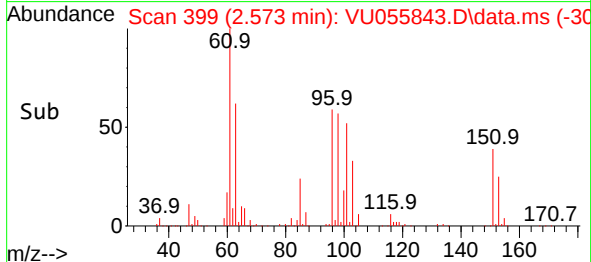
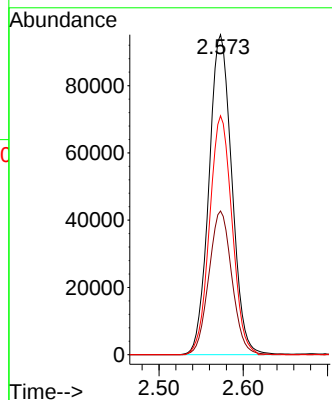
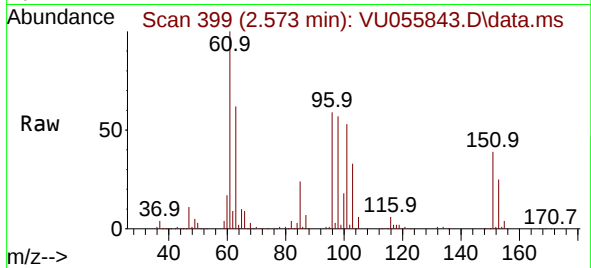




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 44.550 ug/L
 RT: 2.573 min Scan# 399
 Delta R.T. -0.006 min
 Lab File: VU055843.D
 Acq: 20 Oct 2023 19:28

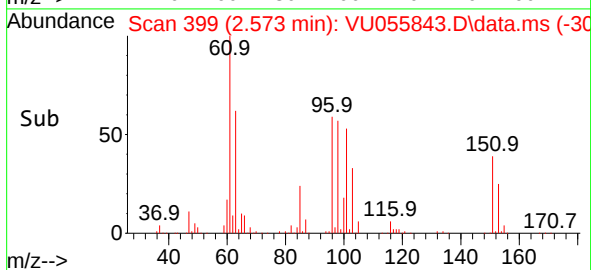
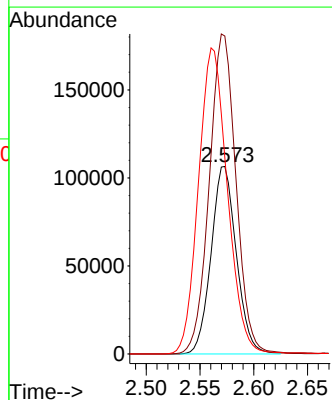
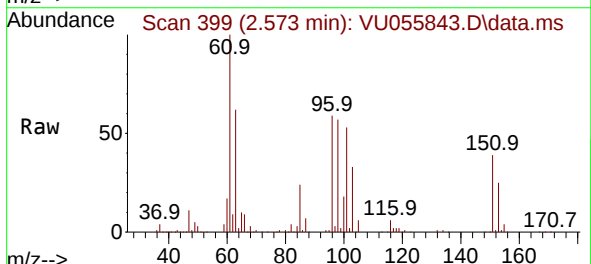
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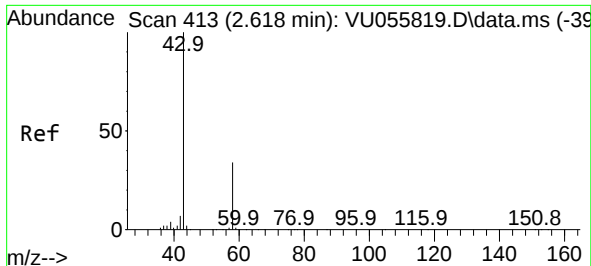
Tgt Ion:101 Resp: 179765
 Ion Ratio Lower Upper
 101 100
 85 45.1 37.1 55.7
 151 73.4 58.2 87.4



#12
 1,1-Dichloroethene
 Concen: 48.483 ug/L
 RT: 2.573 min Scan# 399
 Delta R.T. -0.003 min
 Lab File: VU055843.D
 Acq: 20 Oct 2023 19:28

Tgt Ion: 96 Resp: 174090
 Ion Ratio Lower Upper
 96 100
 61 169.6 122.0 226.6
 63 104.6 93.7 174.1





#13

Acetone

Concen: 61.303 ug/L

RT: 2.618 min Scan# 413

Delta R.T. 0.000 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Instrument :

MSVOA_U

ClientSampleId :

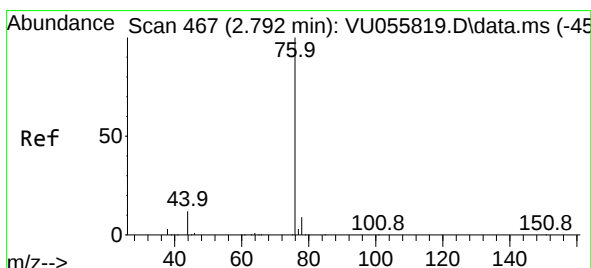
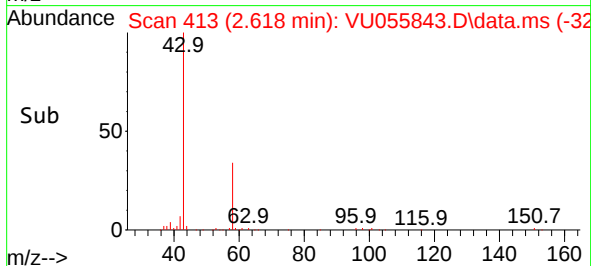
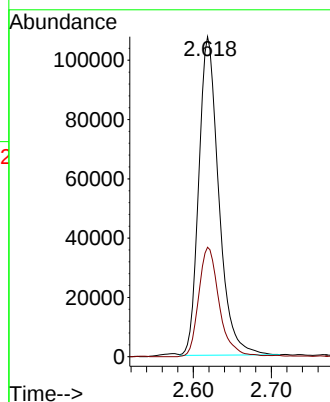
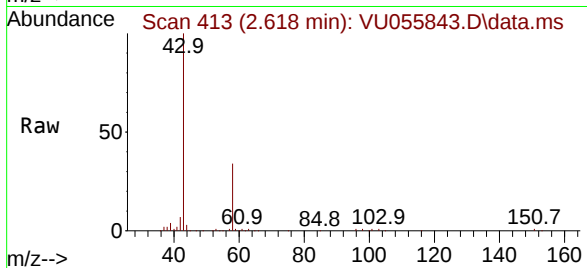
E45J0MS

Tgt Ion: 43 Resp: 191503

Ion Ratio Lower Upper

43 100

58 35.2 0.0 67.4



#14

Carbon disulfide

Concen: 43.907 ug/L

RT: 2.785 min Scan# 465

Delta R.T. -0.006 min

Lab File: VU055843.D

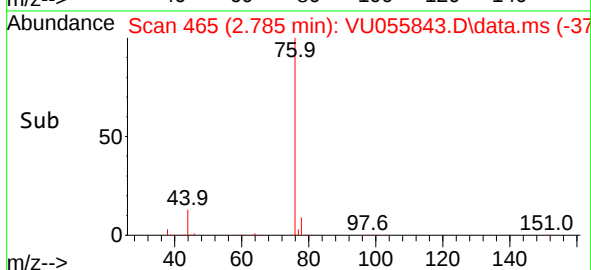
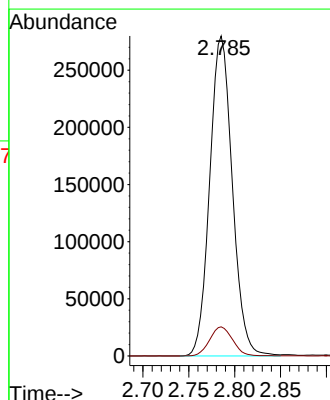
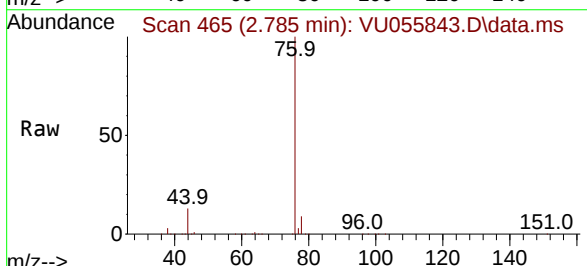
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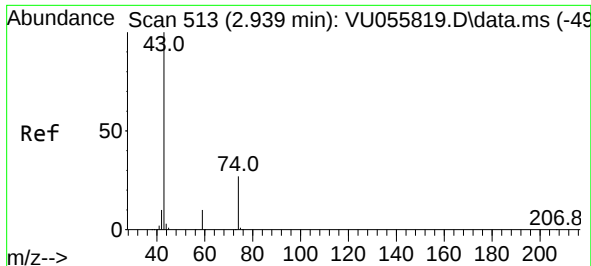
Tgt Ion: 76 Resp: 479782

Ion Ratio Lower Upper

76 100

78 9.1 6.8 10.2

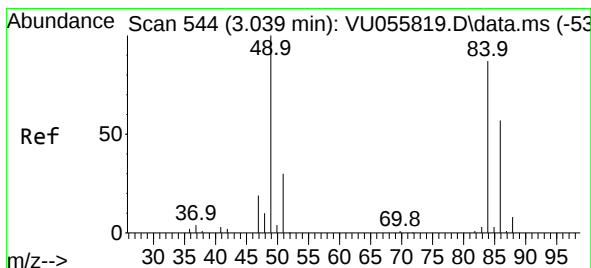
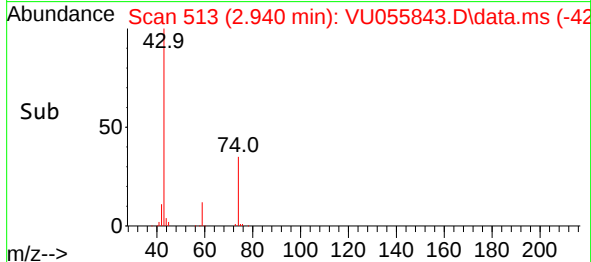
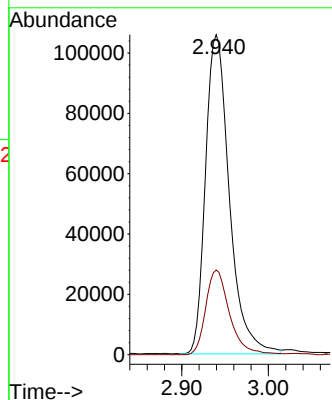
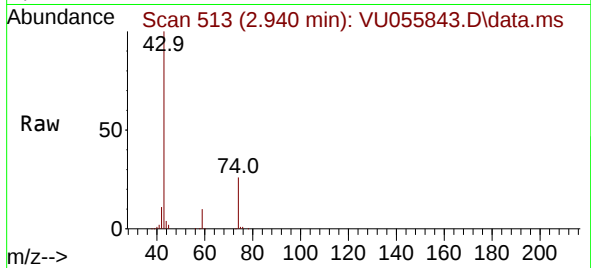




#15
Methyl Acetate
Concen: 42.367 ug/L
RT: 2.940 min Scan# 513
Delta R.T. 0.000 min
Lab File: VU055843.D
Acq: 20 Oct 2023 19:28

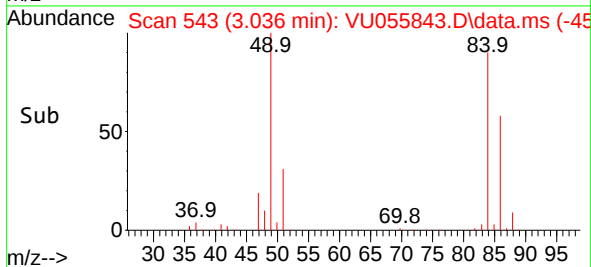
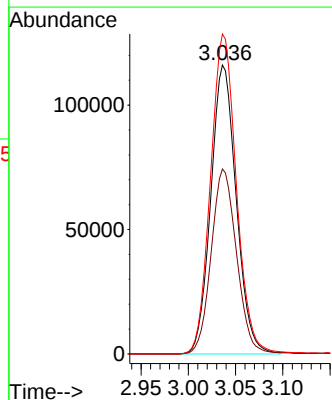
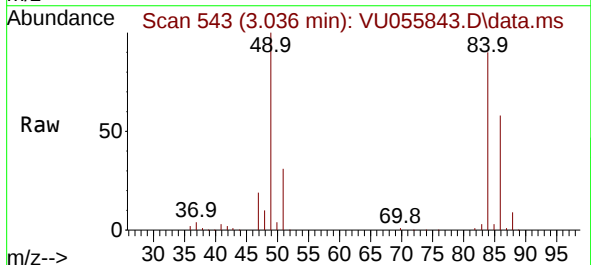
Instrument :
MSVOA_U
ClientSampleId :
E45J0MS

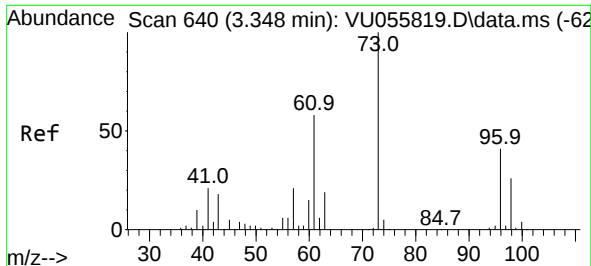
Tgt Ion: 43 Resp: 202688
Ion Ratio Lower Upper
43 100
74 26.5 19.5 29.3



#16
Methylene chloride
Concen: 49.938 ug/L
RT: 3.036 min Scan# 543
Delta R.T. -0.003 min
Lab File: VU055843.D
Acq: 20 Oct 2023 19:28

Tgt Ion: 84 Resp: 217454
Ion Ratio Lower Upper
84 100
86 64.0 46.3 86.1
49 110.8 84.8 157.6





#17

trans-1,2-Dichloroethene

Concen: 49.656 ug/L

RT: 3.345 min Scan# 61

Delta R.T. -0.003 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Instrument :

MSVOA_U

ClientSampleId :

E45J0MS

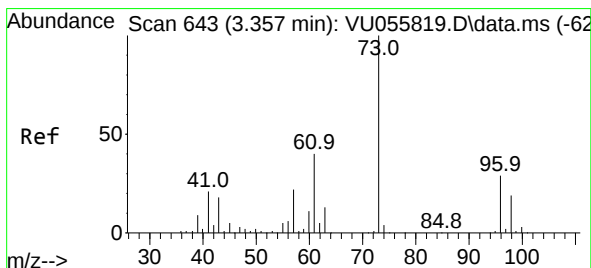
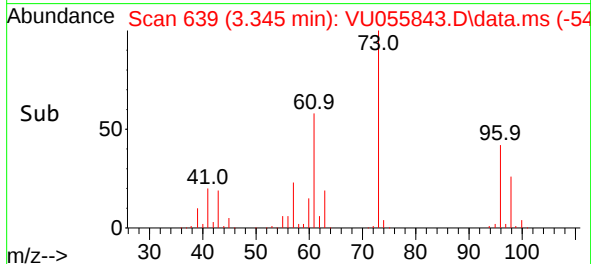
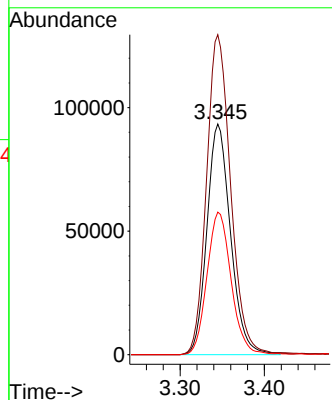
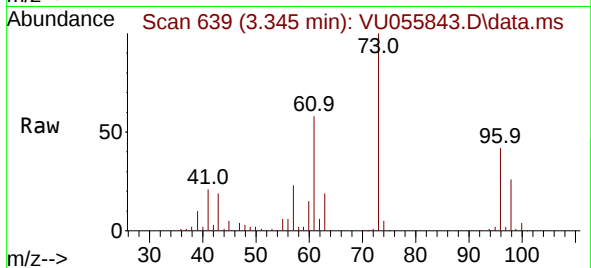
Tgt Ion: 96 Resp: 182322

Ion Ratio Lower Upper

96 100

61 138.7 102.1 189.7

98 61.8 46.3 86.1



#18

Methyl tert-butyl Ether

Concen: 54.202 ug/L

RT: 3.354 min Scan# 642

Delta R.T. -0.003 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

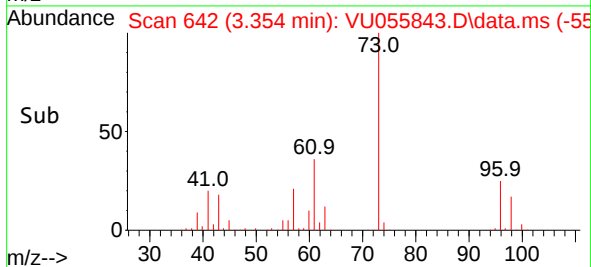
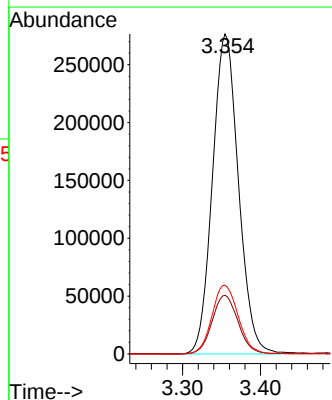
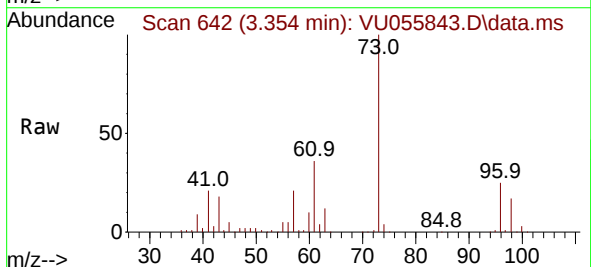
Tgt Ion: 73 Resp: 640032

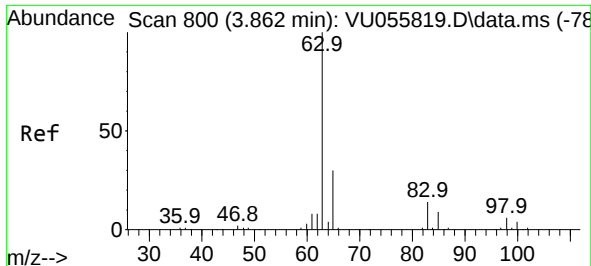
Ion Ratio Lower Upper

73 100

43 18.2 15.4 23.2

57 21.8 17.7 26.5





#19

1,1-Dichloroethane

Concen: 49.717 ug/L

RT: 3.859 min Scan# 799

Delta R.T. -0.003 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Instrument :

MSVOA_U

ClientSampleId :

E45J0MS

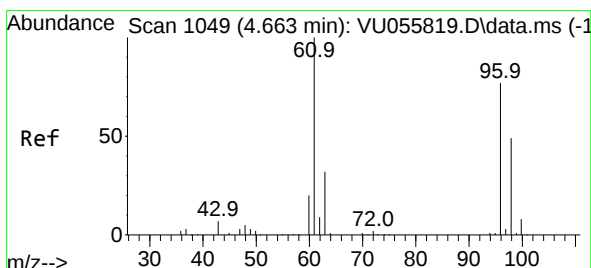
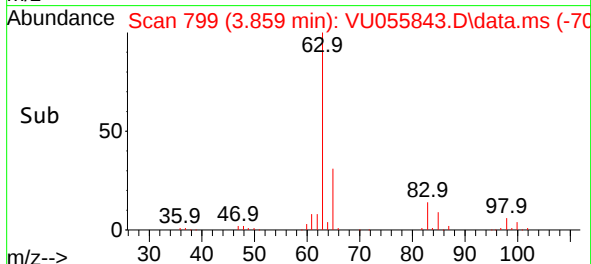
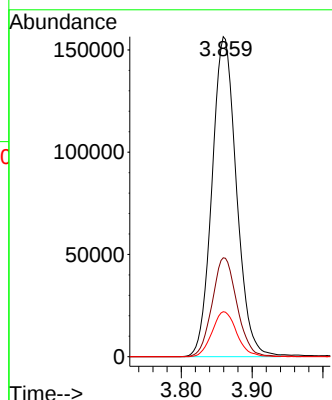
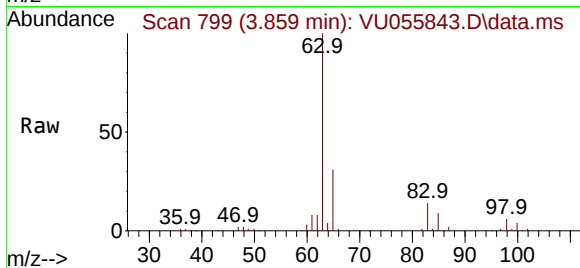
Tgt Ion: 63 Resp: 374357

Ion Ratio Lower Upper

63 100

65 30.9 22.3 41.5

83 14.0 9.5 17.7



#20

cis-1,2-Dichloroethene

Concen: 52.183 ug/L

RT: 4.660 min Scan# 1048

Delta R.T. -0.003 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

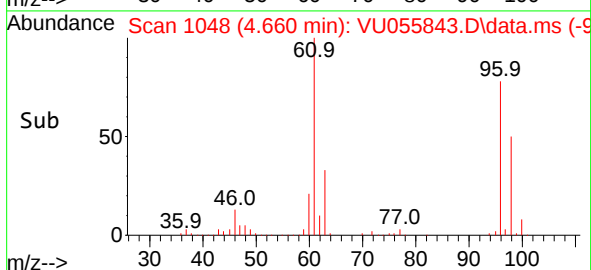
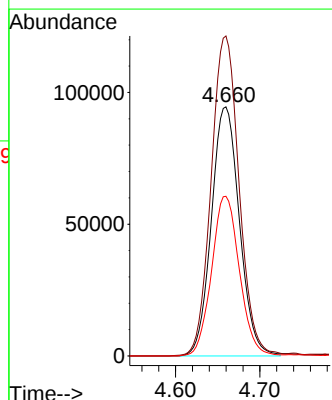
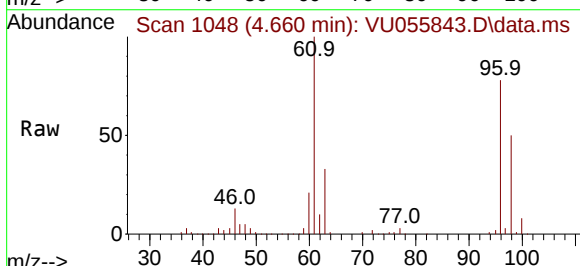
Tgt Ion: 96 Resp: 218673

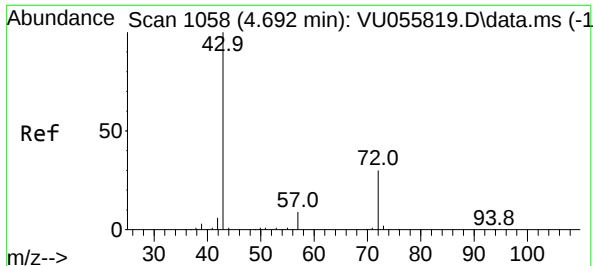
Ion Ratio Lower Upper

96 100

61 128.4 92.3 171.5

98 64.1 43.9 81.5

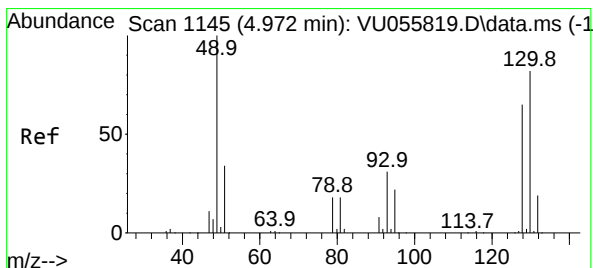
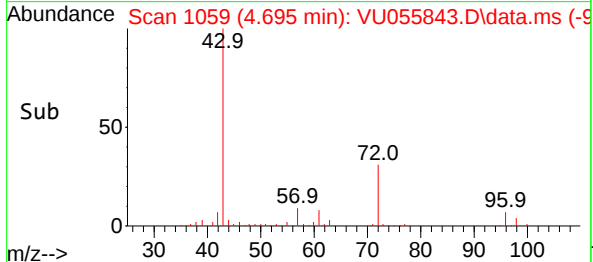
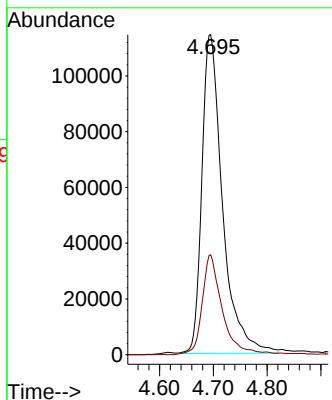
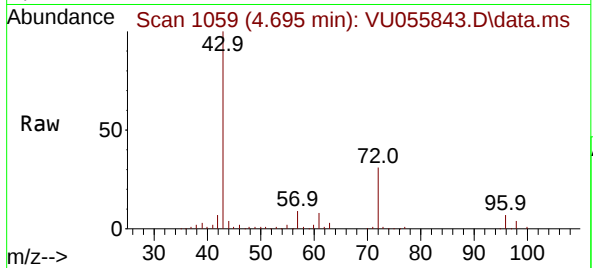




#22
2-Butanone
Concen: 81.000 ug/L
RT: 4.695 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VU055843.D
Acq: 20 Oct 2023 19:28

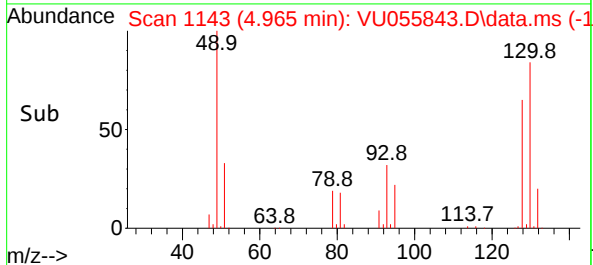
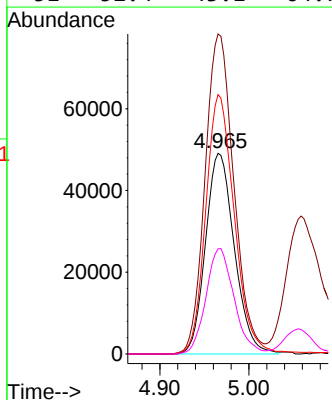
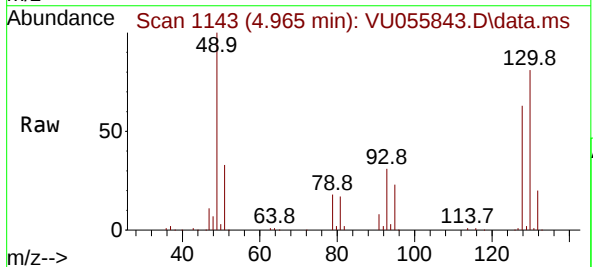
Instrument :
MSVOA_U
ClientSampleId :
E45J0MS

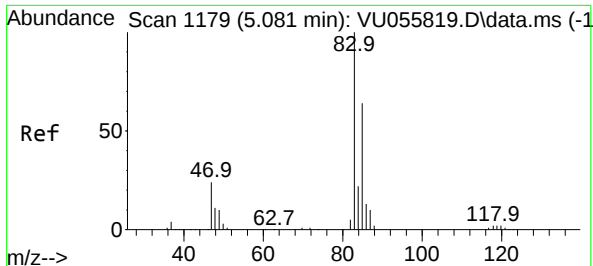
Tgt Ion: 43 Resp: 304987
Ion Ratio Lower Upper
43 100
72 30.0 14.6 44.0



#23
Bromochloromethane
Concen: 50.874 ug/L
RT: 4.965 min Scan# 1143
Delta R.T. -0.006 min
Lab File: VU055843.D
Acq: 20 Oct 2023 19:28

Tgt Ion:128 Resp: 110409
Ion Ratio Lower Upper
128 100
49 159.5 116.3 216.1
130 129.2 91.6 170.0
51 52.4 43.1 64.7





#25

Chloroform

Concen: 49.660 ug/L

RT: 5.081 min Scan# 1179

Delta R.T. 0.000 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Instrument :

MSVOA_U

ClientSampleId :

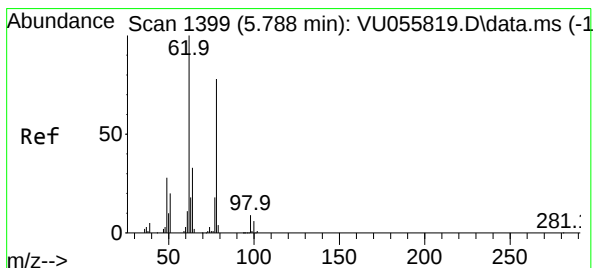
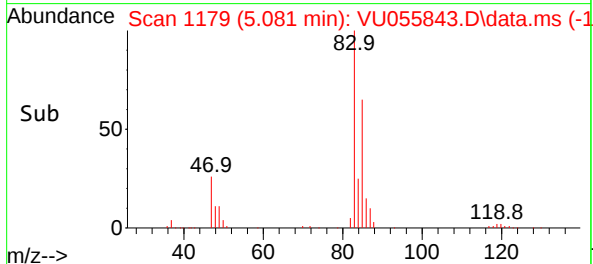
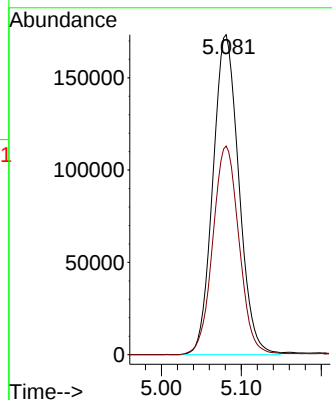
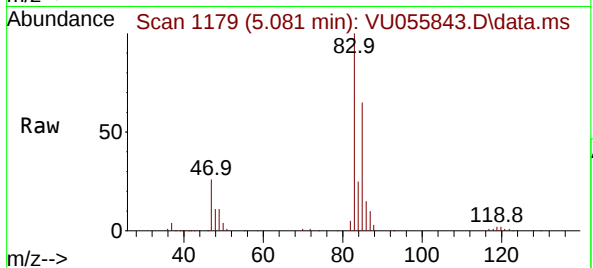
E45J0MS

Tgt Ion: 83 Resp: 390621

Ion Ratio Lower Upper

83 100

85 65.2 46.3 86.1



#27

1,2-Dichloroethane

Concen: 50.163 ug/L

RT: 5.785 min Scan# 1398

Delta R.T. -0.003 min

Lab File: VU055843.D

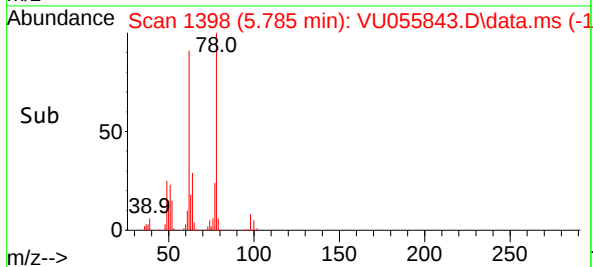
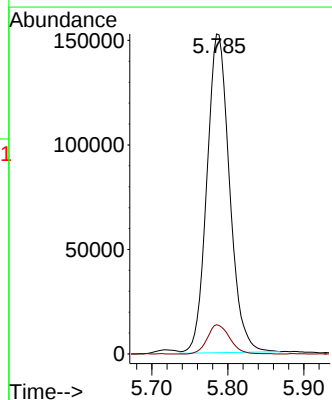
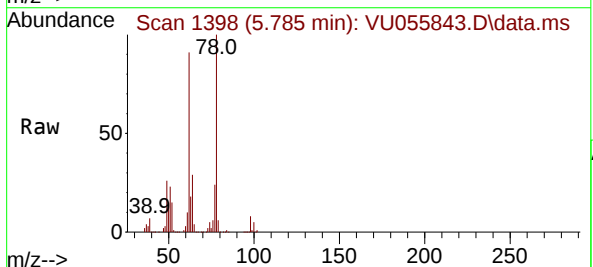
Acq: 20 Oct 2023 19:28

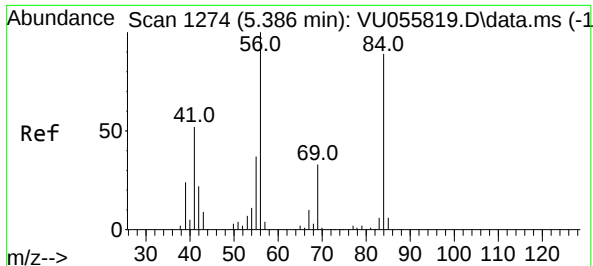
Tgt Ion: 62 Resp: 315581

Ion Ratio Lower Upper

62 100

98 9.1 7.2 10.8





#29

Cyclohexane

Concen: 47.459 ug/L

RT: 5.380 min Scan# 1274

Delta R.T. -0.006 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Instrument :

MSVOA_U

ClientSampleId :

E45J0MS

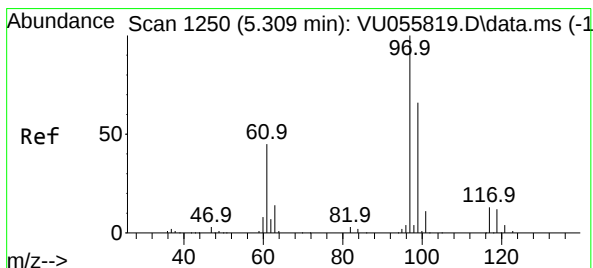
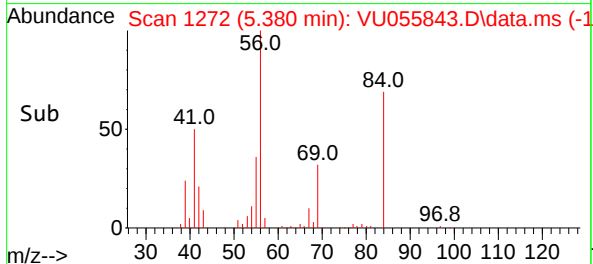
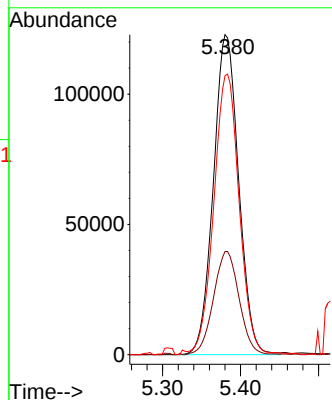
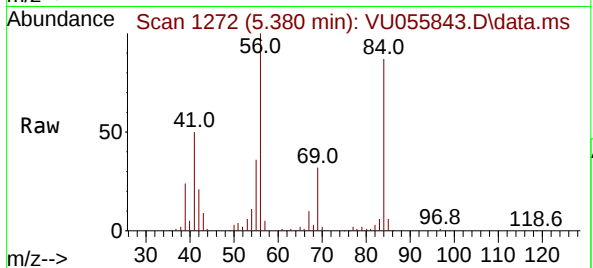
Tgt Ion: 56 Resp: 277051

Ion Ratio Lower Upper

56 100

69 32.6 24.9 37.3

84 88.3 70.7 106.1



#30

1,1,1-Trichloroethane

Concen: 49.729 ug/L

RT: 5.309 min Scan# 1250

Delta R.T. 0.000 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

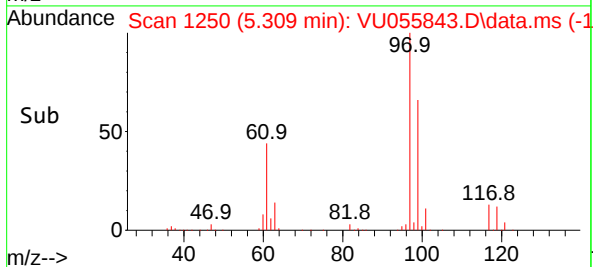
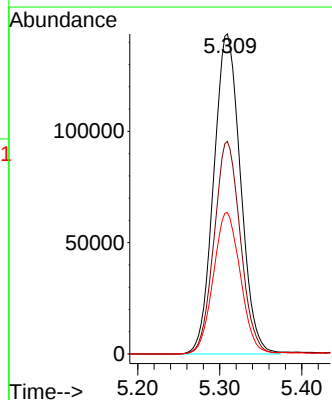
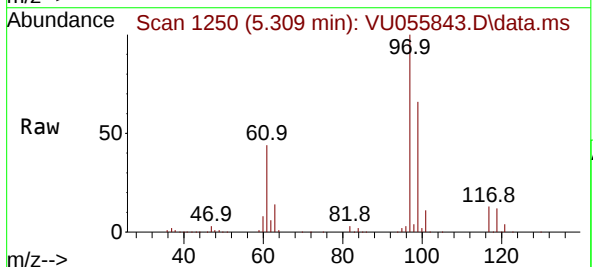
Tgt Ion: 97 Resp: 327214

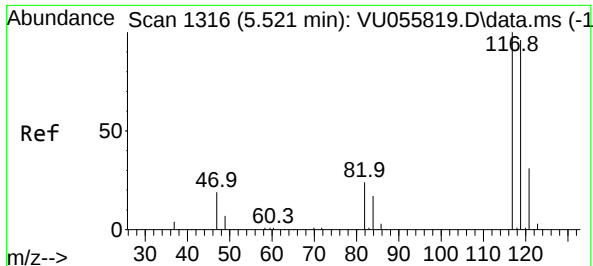
Ion Ratio Lower Upper

97 100

99 65.2 51.6 77.4

61 44.6 36.8 55.2

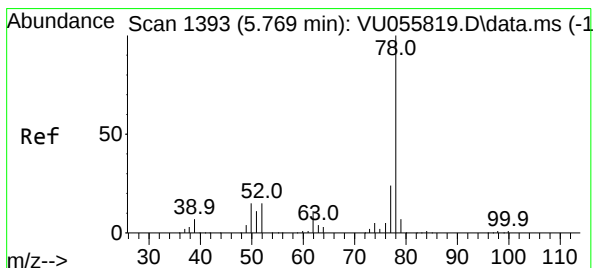
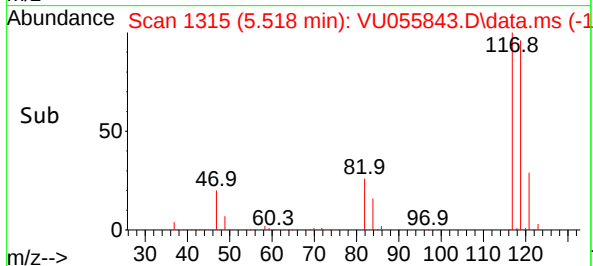
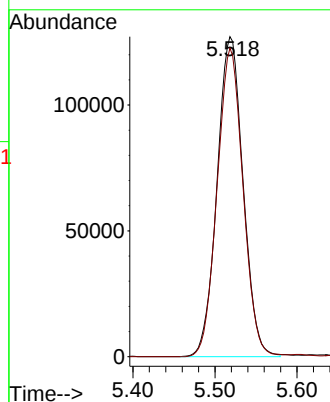
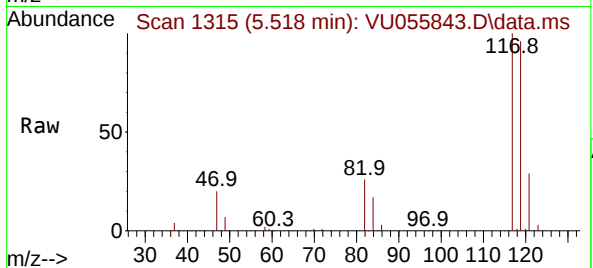




#31
Carbon tetrachloride
Concen: 48.711 ug/L
RT: 5.518 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU055843.D
Acq: 20 Oct 2023 19:28

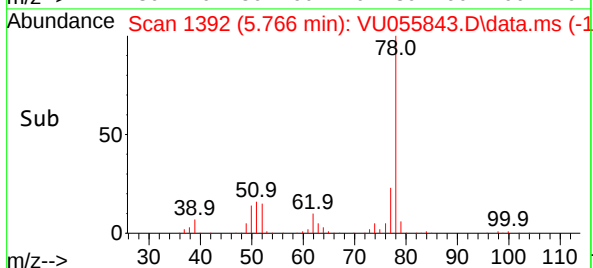
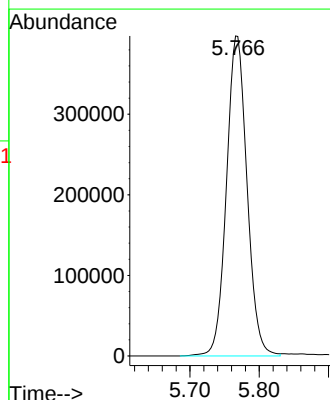
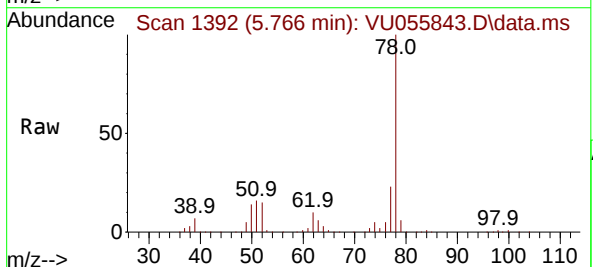
Instrument :
MSVOA_U
ClientSampleId :
E45J0MS

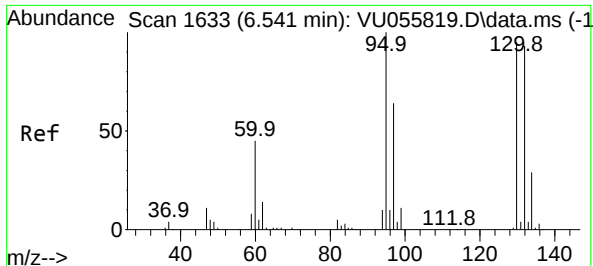
Tgt Ion:117 Resp: 280551
Ion Ratio Lower Upper
117 100
119 95.9 75.4 113.0



#33
Benzene
Concen: 50.867 ug/L
RT: 5.766 min Scan# 1392
Delta R.T. -0.003 min
Lab File: VU055843.D
Acq: 20 Oct 2023 19:28

Tgt Ion: 78 Resp: 818924

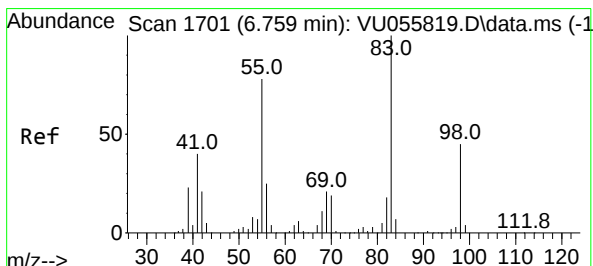
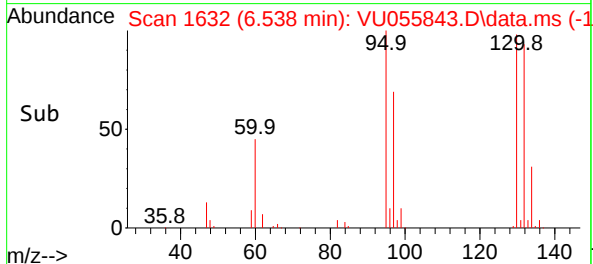
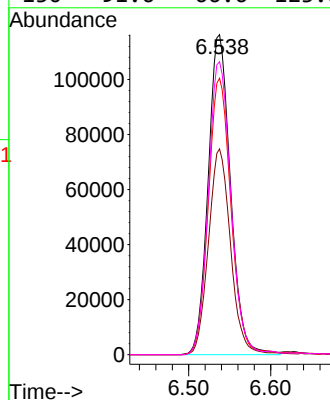
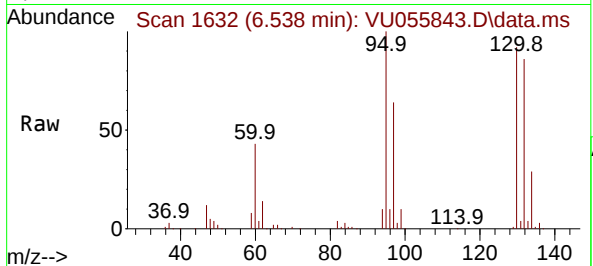




#34
Trichloroethene
Concen: 49.978 ug/L
RT: 6.538 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU055843.D
Acq: 20 Oct 2023 19:28

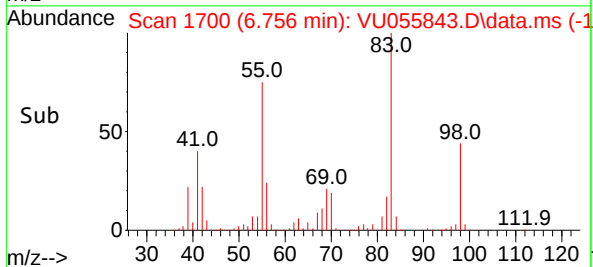
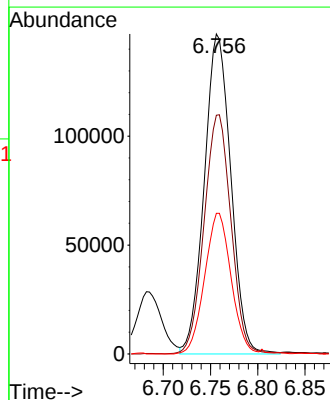
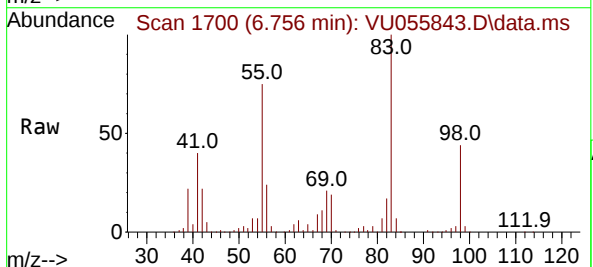
Instrument :
MSVOA_U
ClientSampleId :
E45J0MS

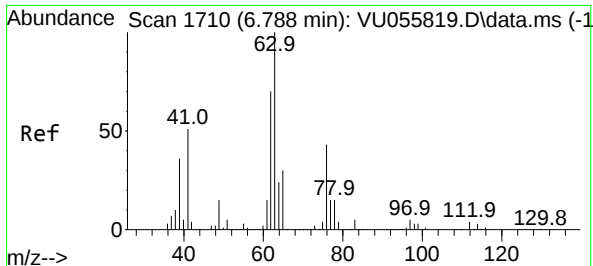
Tgt Ion: 95 Resp: 220157
Ion Ratio Lower Upper
95 100
97 64.3 44.4 82.5
132 86.4 61.8 114.8
130 91.6 66.6 123.8



#35
Methylcyclohexane
Concen: 45.013 ug/L
RT: 6.756 min Scan# 1700
Delta R.T. -0.003 min
Lab File: VU055843.D
Acq: 20 Oct 2023 19:28

Tgt Ion: 83 Resp: 287694
Ion Ratio Lower Upper
83 100
55 75.4 61.2 91.8
98 43.6 35.8 53.6





#37

1,2-Dichloropropane

Concen: 51.116 ug/L

RT: 6.785 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Instrument :

MSVOA_U

ClientSampleId :

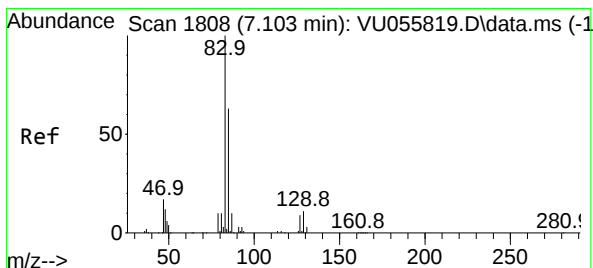
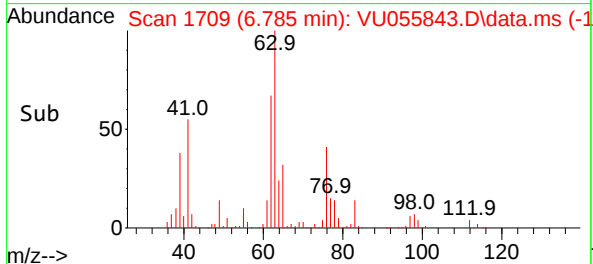
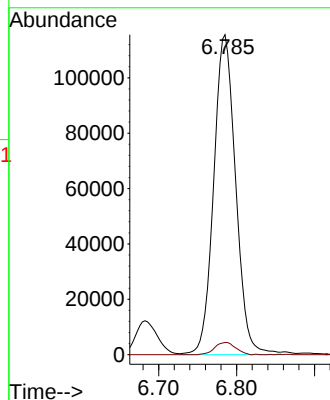
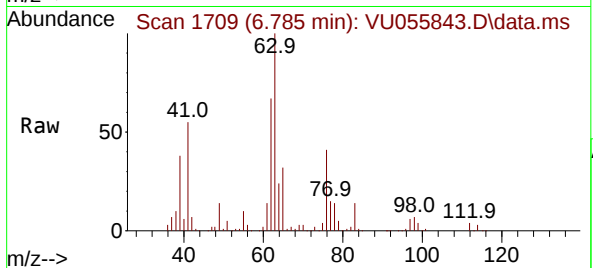
E45J0MS

Tgt Ion: 63 Resp: 226609

Ion Ratio Lower Upper

63 100

112 3.7 3.0 4.4



#38

Bromodichloromethane

Concen: 49.672 ug/L

RT: 7.100 min Scan# 1807

Delta R.T. -0.003 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

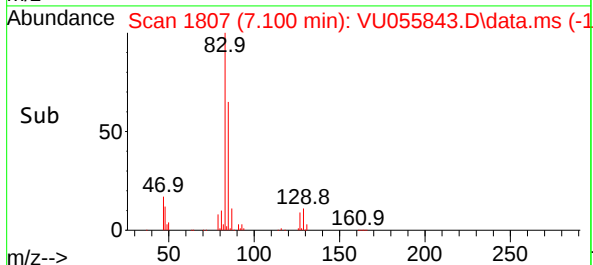
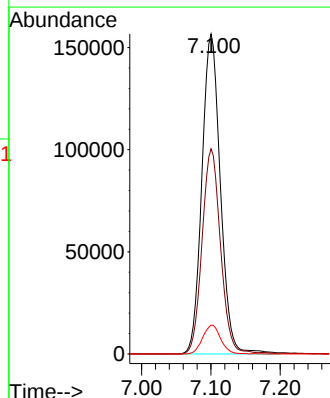
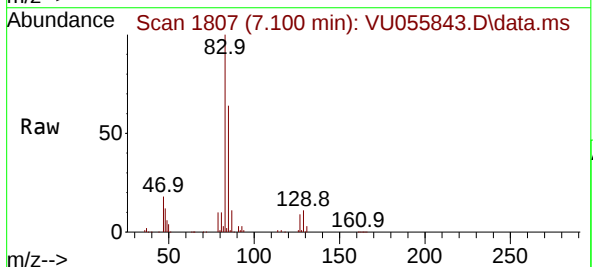
Tgt Ion: 83 Resp: 290395

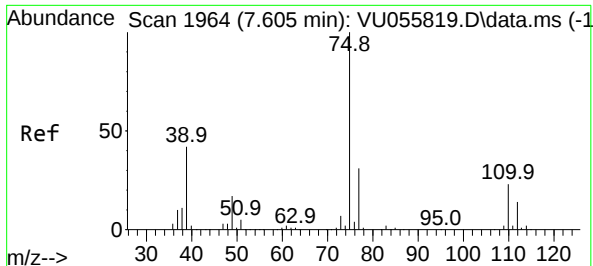
Ion Ratio Lower Upper

83 100

85 64.1 46.0 85.4

127 9.9 7.0 10.4





#39

cis-1,3-Dichloropropene

Concen: 52.132 ug/L

RT: 7.602 min Scan# 1963

Delta R.T. -0.003 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Instrument :

MSVOA_U

ClientSampleId :

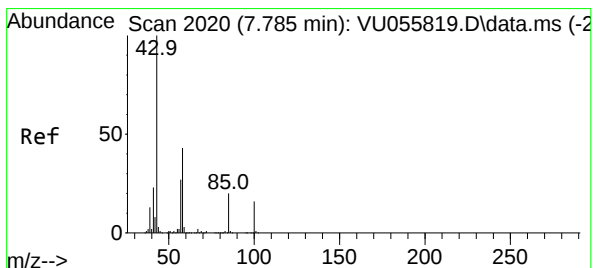
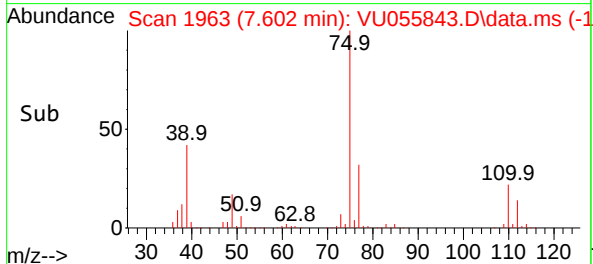
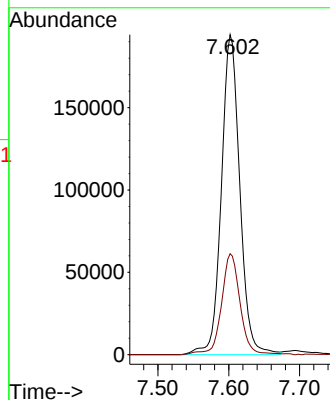
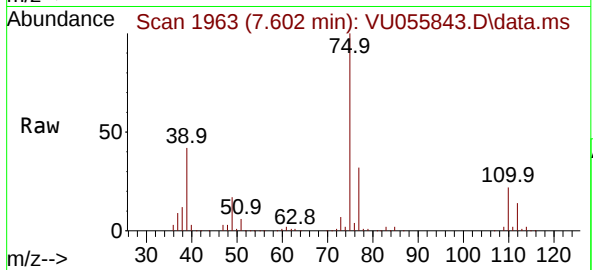
E45J0MS

Tgt Ion: 75 Resp: 351603

Ion Ratio Lower Upper

75 100

77 31.5 21.7 40.3



#40

4-Methyl-2-pentanone

Concen: 103.077 ug/L

RT: 7.788 min Scan# 2021

Delta R.T. 0.003 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

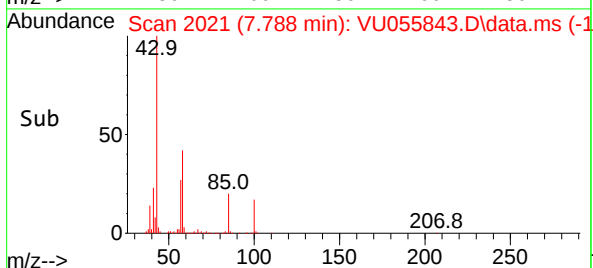
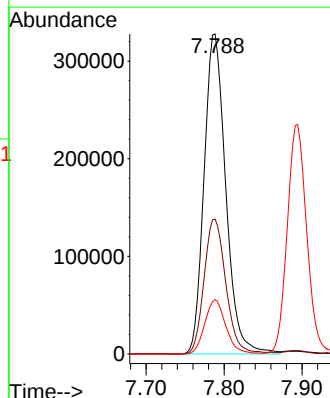
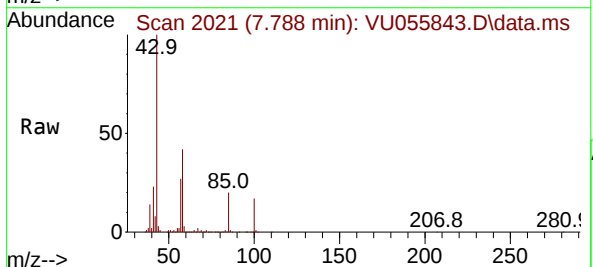
Tgt Ion: 43 Resp: 635715

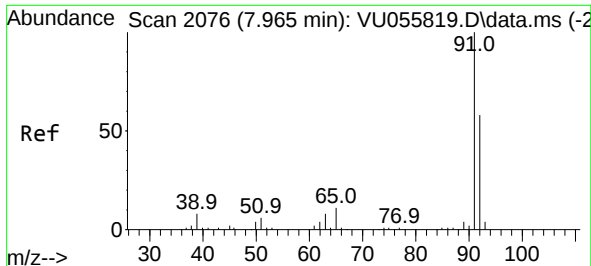
Ion Ratio Lower Upper

43 100

58 42.2 32.3 48.5

100 16.5 12.0 18.0





#42

Toluene

Concen: 51.278 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. 0.000 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Instrument :

MSVOA_U

ClientSampleId :

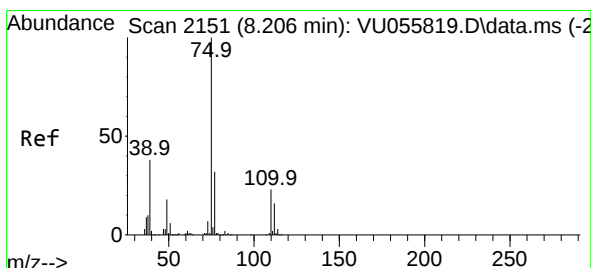
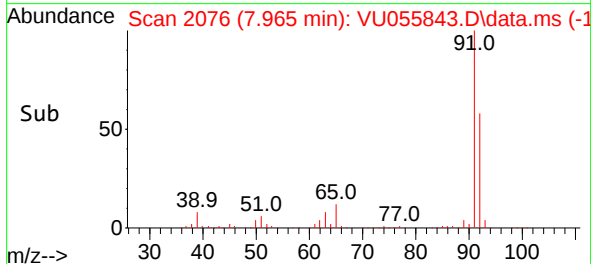
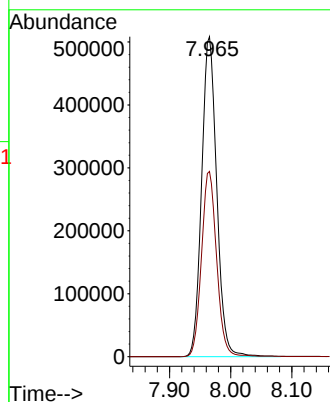
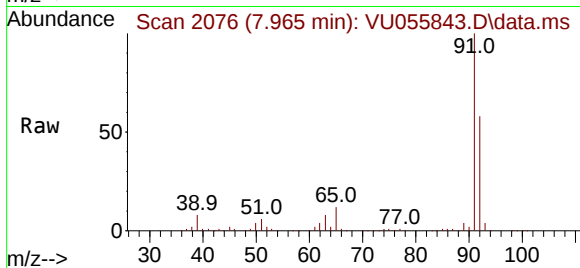
E45J0MS

Tgt Ion: 91 Resp: 871110

Ion Ratio Lower Upper

91 100

92 57.9 40.0 74.4



#44

trans-1,3-Dichloropropene

Concen: 51.005 ug/L

RT: 8.206 min Scan# 2151

Delta R.T. 0.000 min

Lab File: VU055843.D

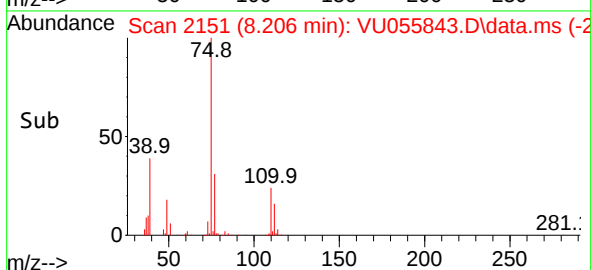
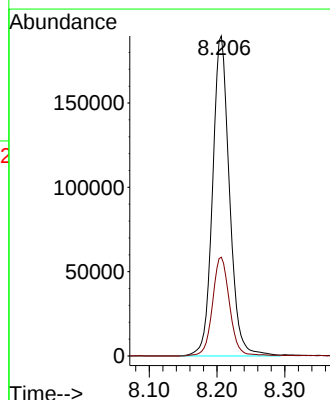
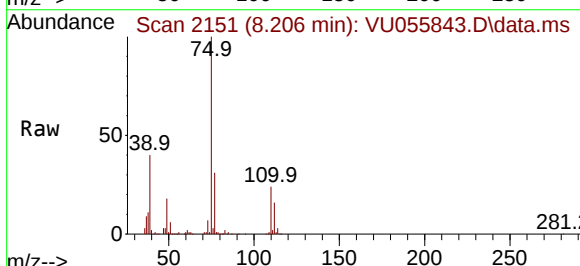
Acq: 20 Oct 2023 19:28

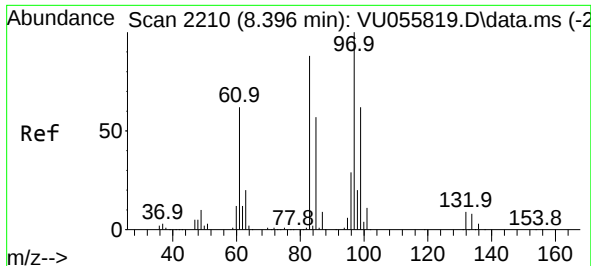
Tgt Ion: 75 Resp: 329145

Ion Ratio Lower Upper

75 100

77 30.9 21.6 40.2





#45

1,1,2-Trichloroethane

Concen: 51.999 ug/L

RT: 8.396 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Instrument :

MSVOA_U

ClientSampleId :

E45J0MS

Tgt Ion: 97 Resp: 227307

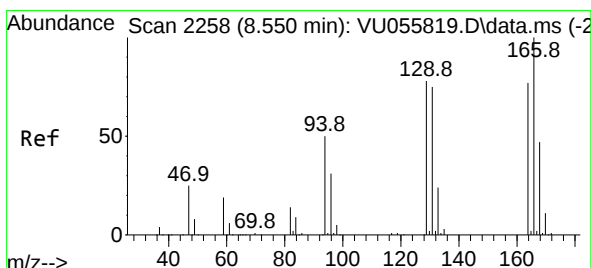
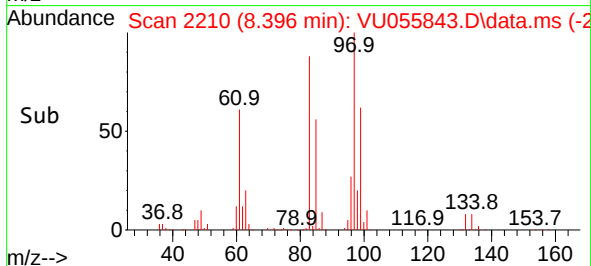
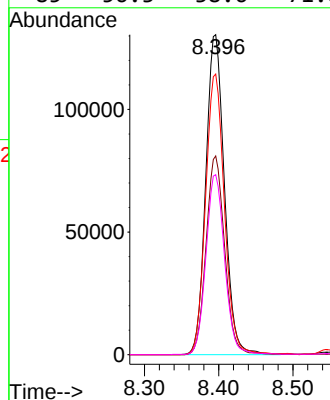
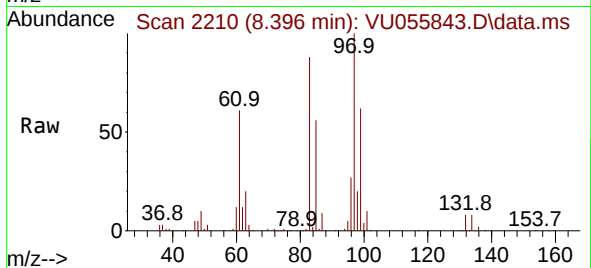
Ion Ratio Lower Upper

97 100

99 62.1 44.4 82.5

83 87.7 60.4 112.2

85 56.3 38.6 71.8



#46

Tetrachloroethene

Concen: 48.195 ug/L

RT: 8.550 min Scan# 2258

Delta R.T. 0.000 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Tgt Ion:164 Resp: 152004

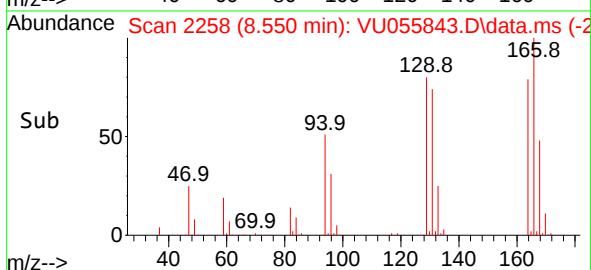
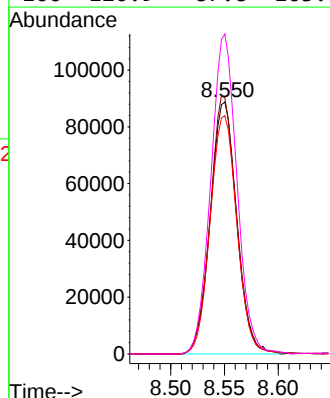
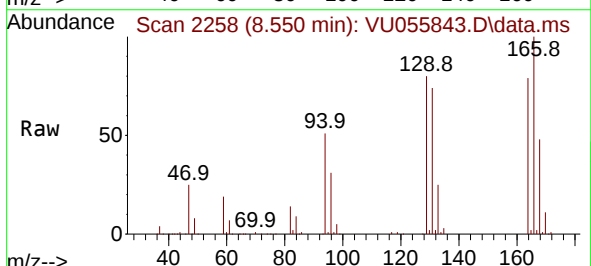
Ion Ratio Lower Upper

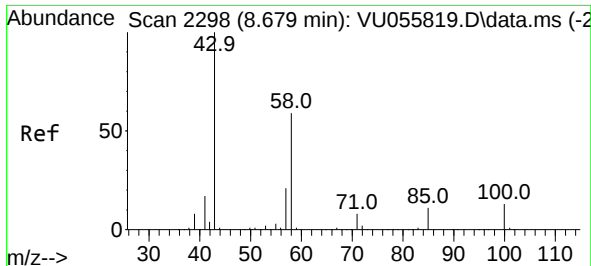
164 100

129 101.6 70.7 131.3

131 94.5 65.9 122.5

166 126.9 87.8 163.0

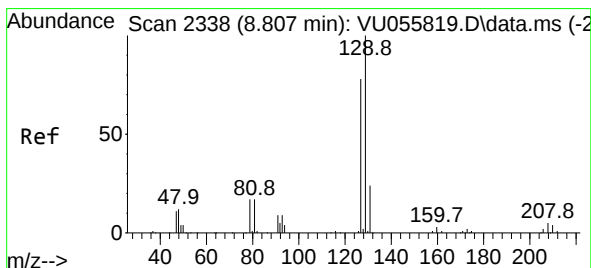
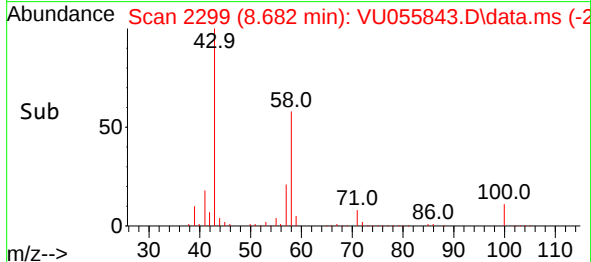
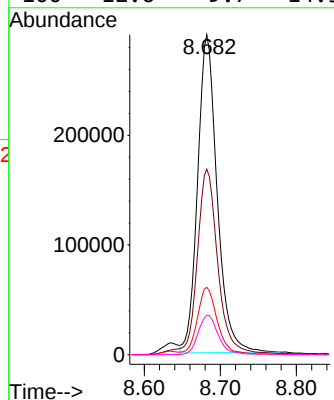
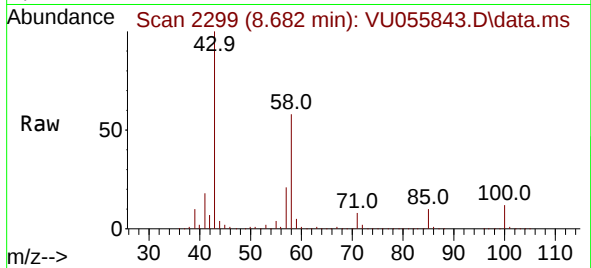




#48
2-Hexanone
Concen: 99.459 ug/L
RT: 8.682 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU055843.D
Acq: 20 Oct 2023 19:28

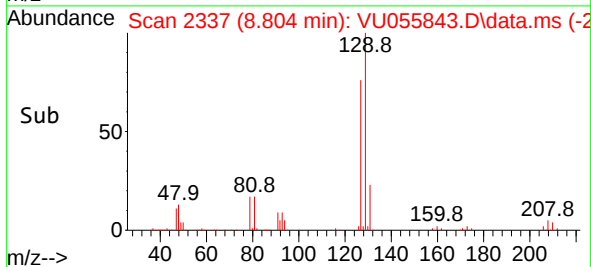
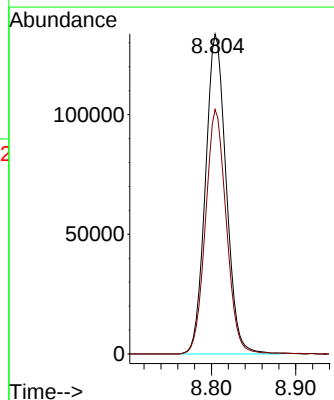
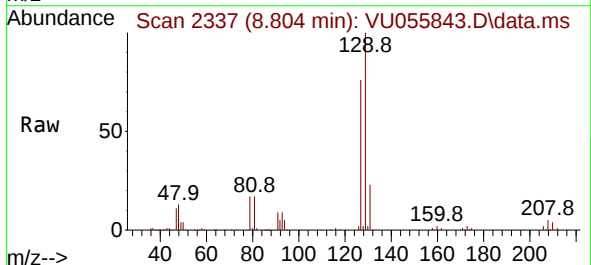
Instrument :
MSVOA_U
ClientSampleId :
E45J0MS

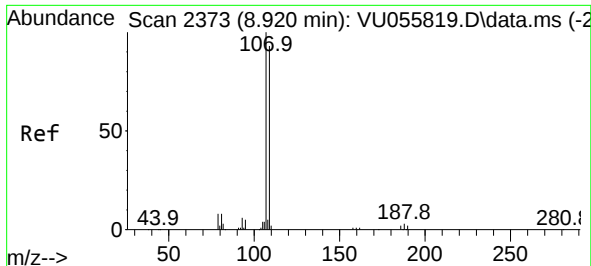
Tgt Ion: 43 Resp: 518120
Ion Ratio Lower Upper
43 100
58 62.5 45.2 67.8
57 21.7 16.1 24.1
100 12.6 9.7 14.5



#49
Dibromochloromethane
Concen: 51.251 ug/L
RT: 8.804 min Scan# 2337
Delta R.T. -0.003 min
Lab File: VU055843.D
Acq: 20 Oct 2023 19:28

Tgt Ion: 129 Resp: 228914
Ion Ratio Lower Upper
129 100
127 76.4 54.0 100.4





#50

1,2-Dibromoethane

Concen: 50.424 ug/L

RT: 8.917 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Instrument :

MSVOA_U

ClientSampleId :

E45J0MS

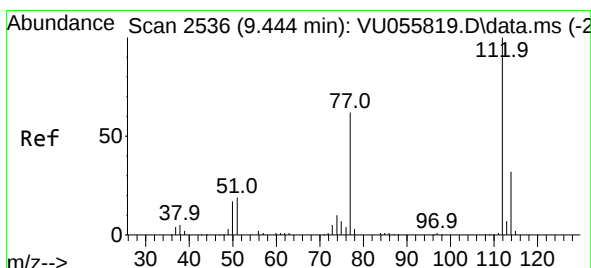
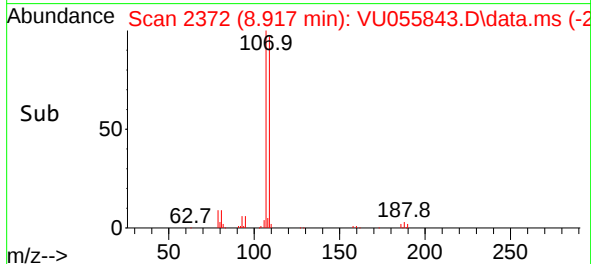
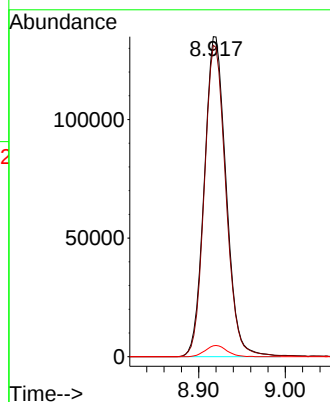
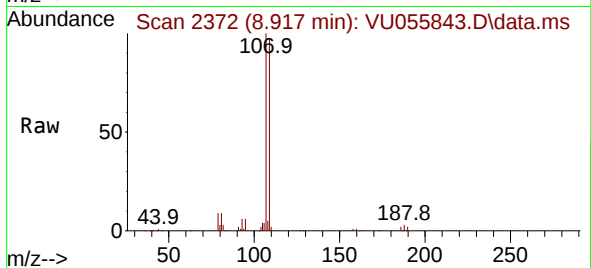
Tgt Ion:107 Resp: 236754

Ion Ratio Lower Upper

107 100

109 97.3 66.7 123.9

188 3.4 2.6 4.0



#51

Chlorobenzene

Concen: 51.069 ug/L

RT: 9.444 min Scan# 2536

Delta R.T. 0.000 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

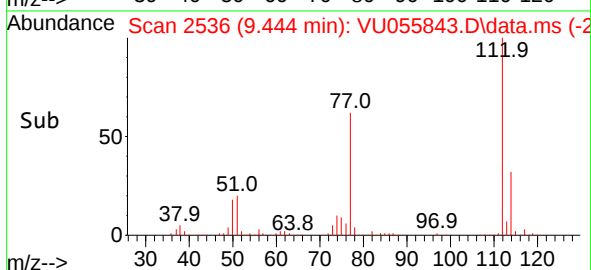
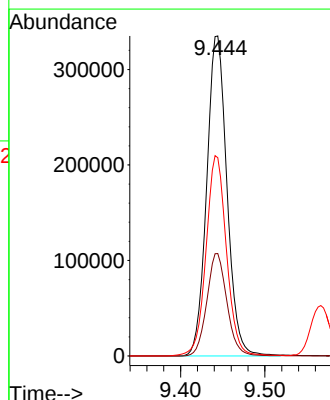
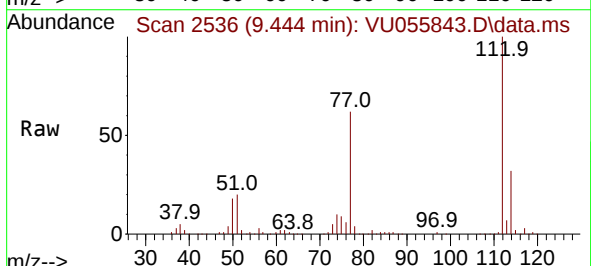
Tgt Ion:112 Resp: 561312

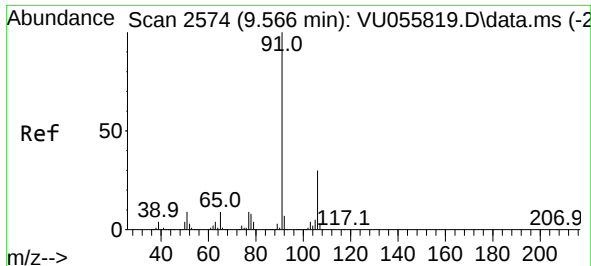
Ion Ratio Lower Upper

112 100

114 32.0 22.0 40.8

77 62.0 49.0 73.6

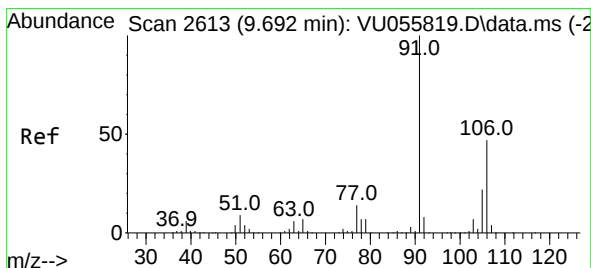
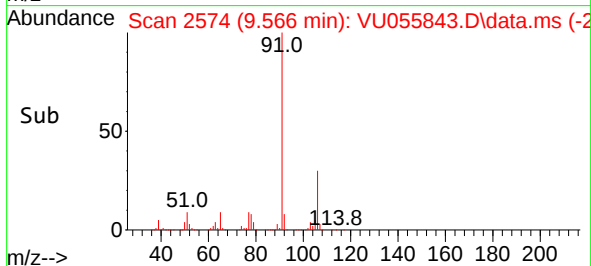
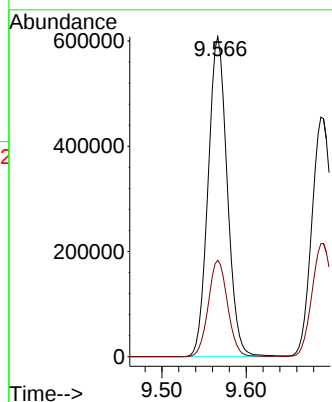
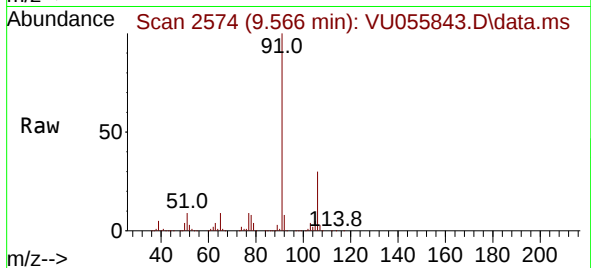




#52
Ethylbenzene
Concen: 51.827 ug/L
RT: 9.566 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU055843.D
Acq: 20 Oct 2023 19:28

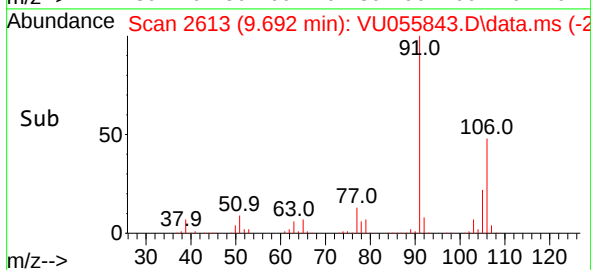
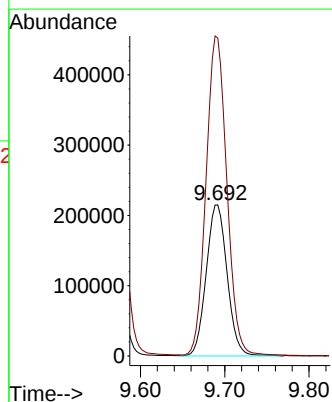
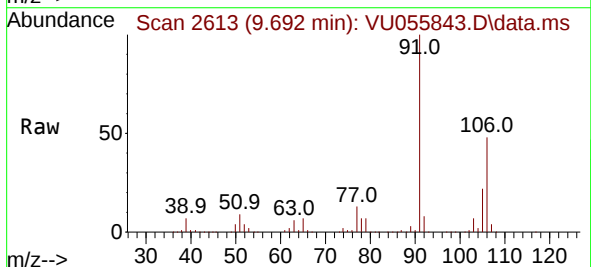
Instrument :
MSVOA_U
ClientSampleId :
E45J0MS

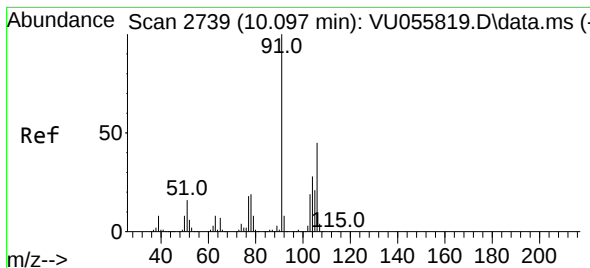
Tgt Ion: 91 Resp: 962551
Ion Ratio Lower Upper
91 100
106 30.1 21.2 39.4



#53
m,p-Xylene
Concen: 53.444 ug/L
RT: 9.692 min Scan# 2613
Delta R.T. 0.000 min
Lab File: VU055843.D
Acq: 20 Oct 2023 19:28

Tgt Ion: 106 Resp: 371865
Ion Ratio Lower Upper
106 100
91 210.5 143.8 267.0





#54

o-Xylene

Concen: 55.713 ug/L

RT: 10.097 min Scan# 2739

Delta R.T. 0.000 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Instrument :

MSVOA_U

ClientSampleId :

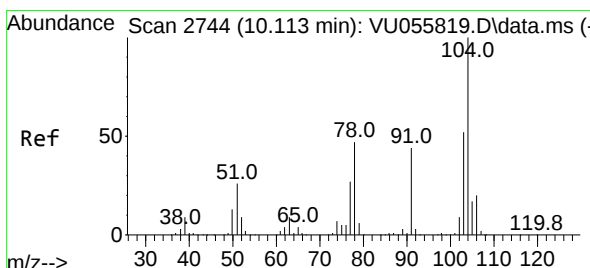
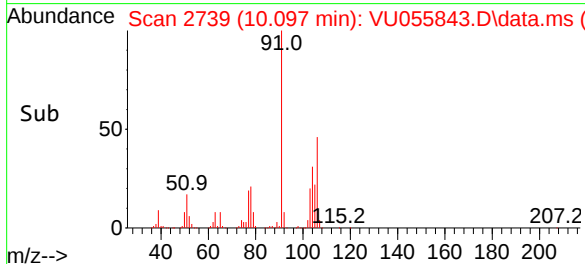
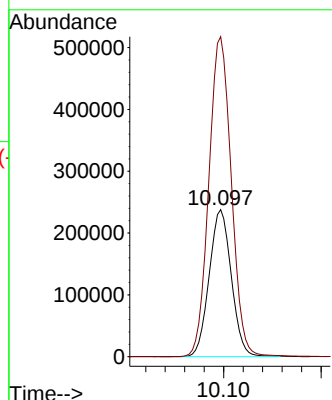
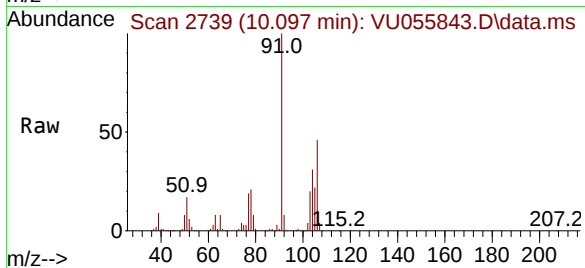
E45J0MS

Tgt Ion:106 Resp: 375127

Ion Ratio Lower Upper

106 100

91 217.5 151.8 282.0



#55

Styrene

Concen: 57.098 ug/L

RT: 10.110 min Scan# 2743

Delta R.T. -0.003 min

Lab File: VU055843.D

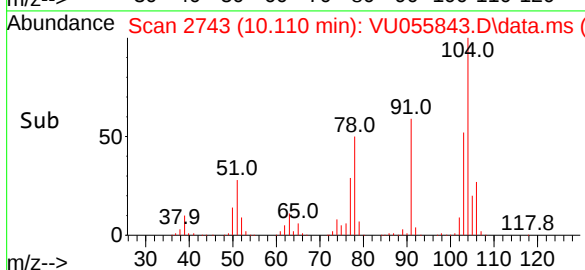
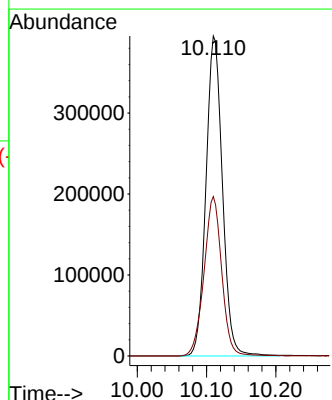
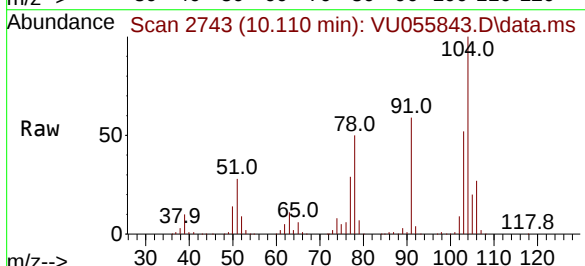
Acq: 20 Oct 2023 19:28

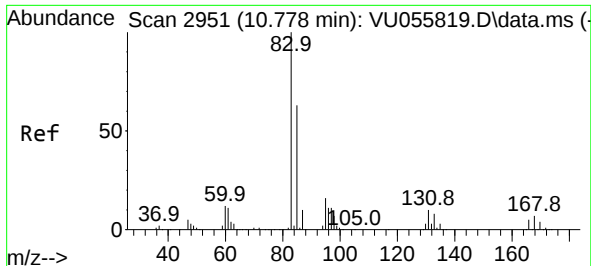
Tgt Ion:104 Resp: 651279

Ion Ratio Lower Upper

104 100

78 49.8 33.6 62.4





#57

1,1,2,2-Tetrachloroethane

Concen: 55.165 ug/L

RT: 10.779 min Scan# 2951

Delta R.T. 0.000 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Instrument :

MSVOA_U

ClientSampleId :

E45J0MS

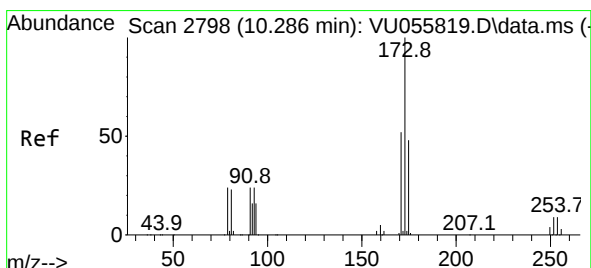
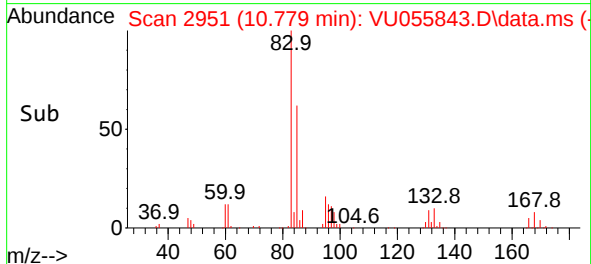
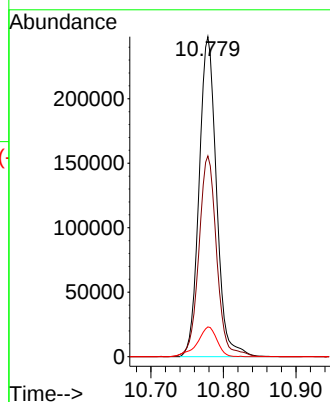
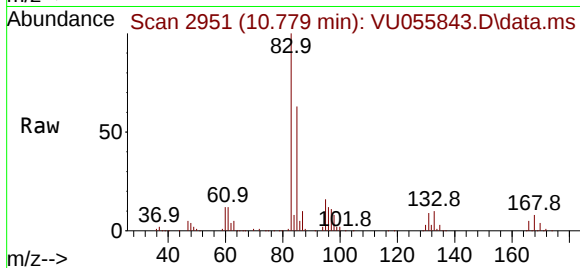
Tgt Ion: 83 Resp: 412915

Ion Ratio Lower Upper

83 100

85 62.7 44.9 83.5

131 9.3 7.3 10.9



#59

Bromoform

Concen: 52.518 ug/L

RT: 10.287 min Scan# 2798

Delta R.T. 0.000 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

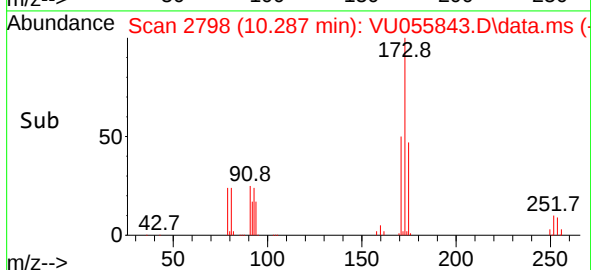
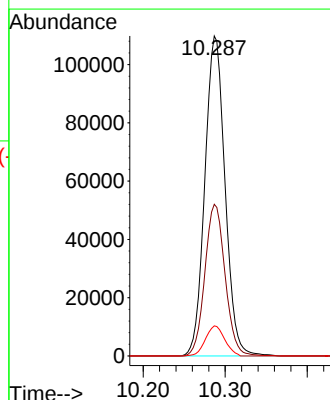
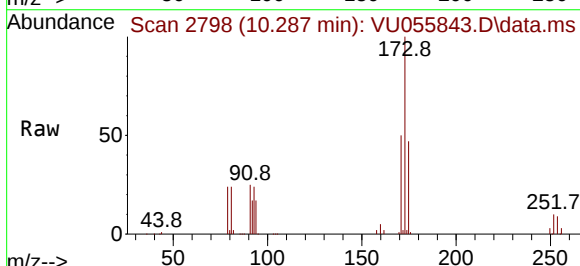
Tgt Ion:173 Resp: 187806

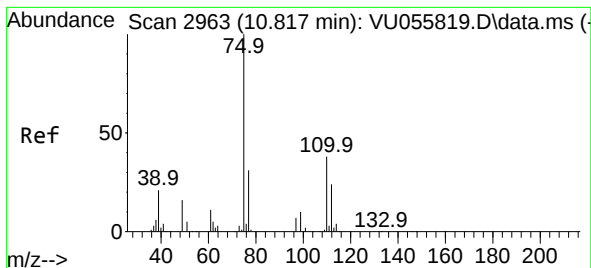
Ion Ratio Lower Upper

173 100

175 47.4 40.4 60.6

254 9.0 7.3 10.9





#60

1,2,3-Trichloropropane

Concen: 52.126 ug/L

RT: 10.820 min Scan# 2964

Delta R.T. 0.003 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Instrument :

MSVOA_U

ClientSampleId :

E45J0MS

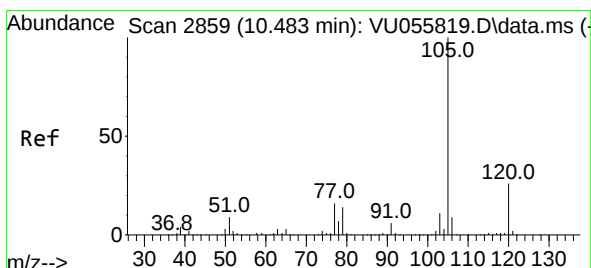
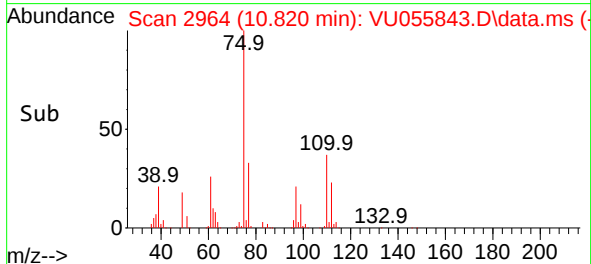
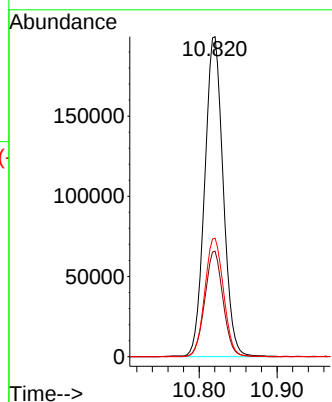
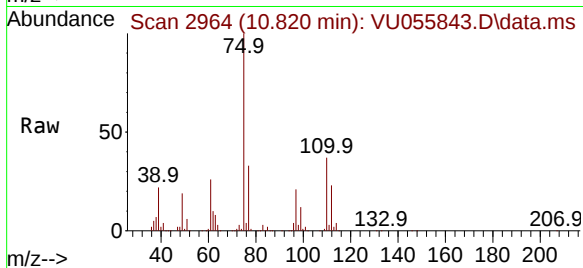
Tgt Ion: 75 Resp: 328631

Ion Ratio Lower Upper

75 100

77 32.5 25.8 38.8

110 37.5 28.5 42.7



#61

Isopropylbenzene

Concen: 53.275 ug/L

RT: 10.480 min Scan# 2858

Delta R.T. -0.003 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

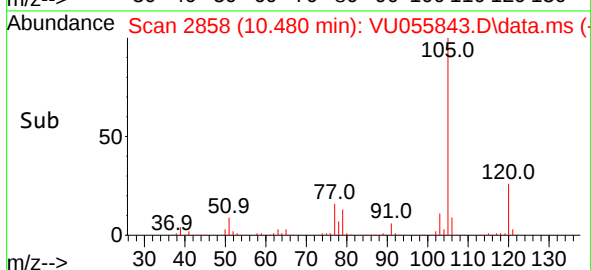
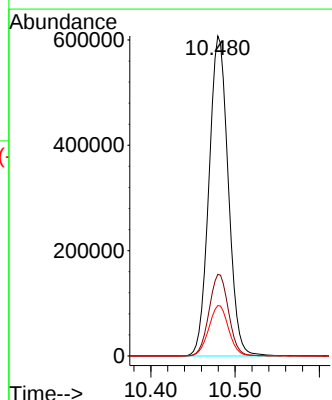
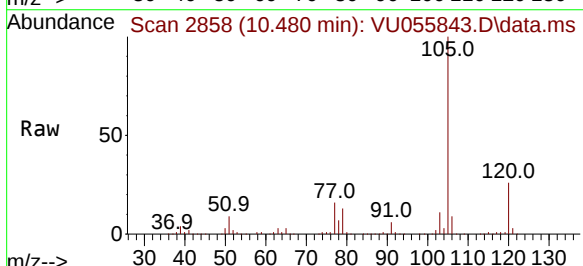
Tgt Ion: 105 Resp: 964791

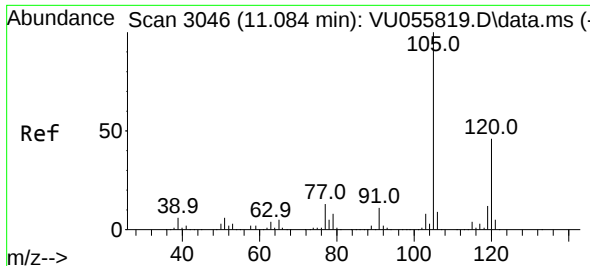
Ion Ratio Lower Upper

105 100

120 25.8 20.6 30.8

77 16.3 13.4 20.0





#62

1,3,5-Trimethylbenzene

Concen: 55.536 ug/L

RT: 11.084 min Scan# 3046

Delta R.T. 0.000 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Instrument :

MSVOA_U

ClientSampleId :

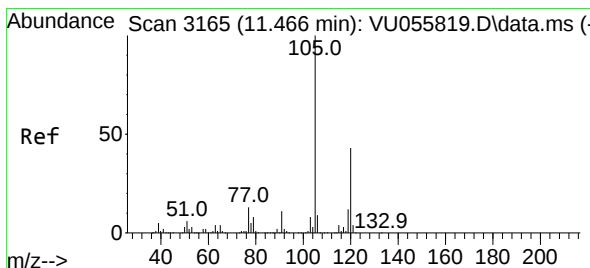
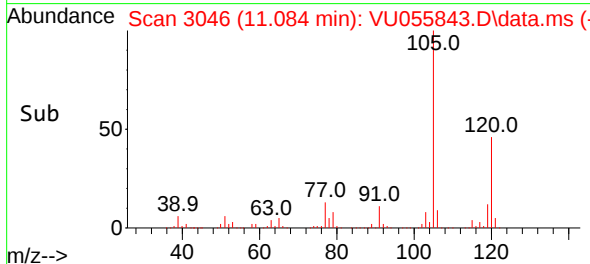
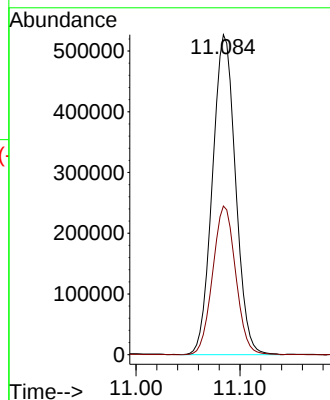
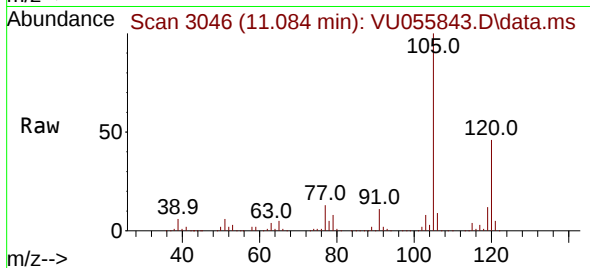
E45J0MS

Tgt Ion:105 Resp: 813803

Ion Ratio Lower Upper

105 100

120 46.2 37.7 56.5



#63

1,2,4-Trimethylbenzene

Concen: 52.849 ug/L

RT: 11.463 min Scan# 3164

Delta R.T. -0.003 min

Lab File: VU055843.D

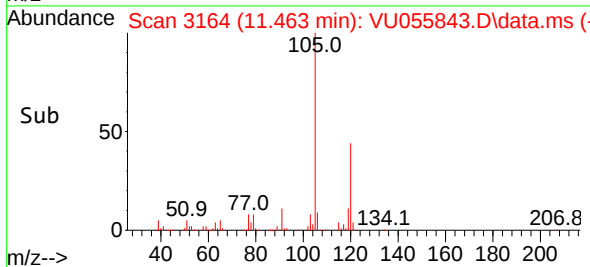
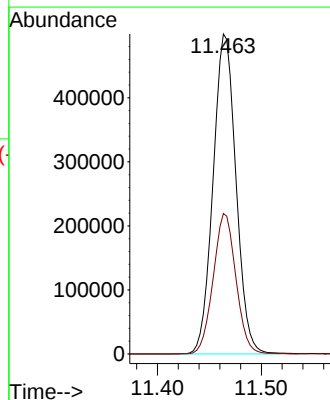
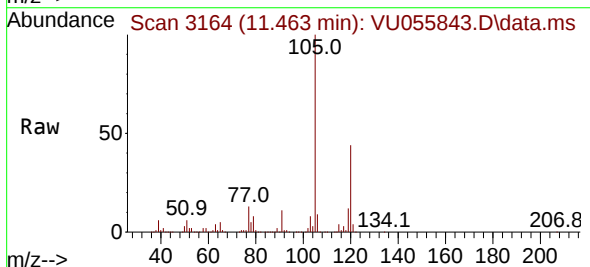
Acq: 20 Oct 2023 19:28

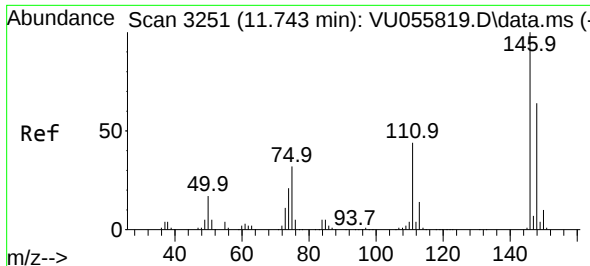
Tgt Ion:105 Resp: 765772

Ion Ratio Lower Upper

105 100

120 43.5 35.0 52.4

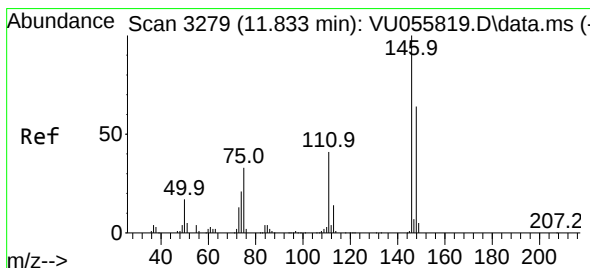
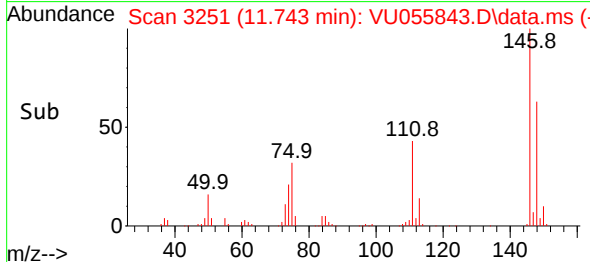
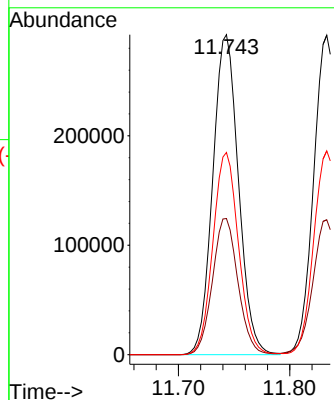
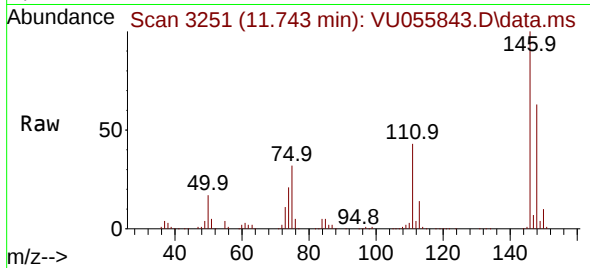




#64
1,3-Dichlorobenzene
Concen: 52.397 ug/L
RT: 11.743 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU055843.D
Acq: 20 Oct 2023 19:28

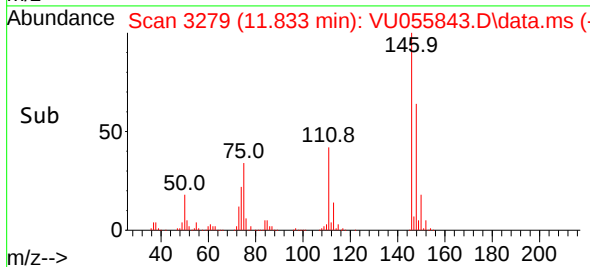
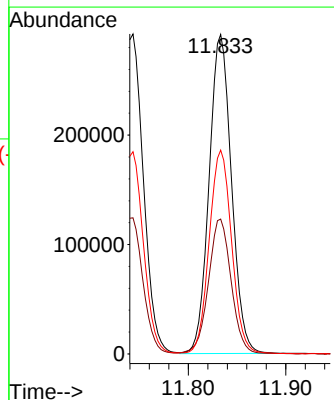
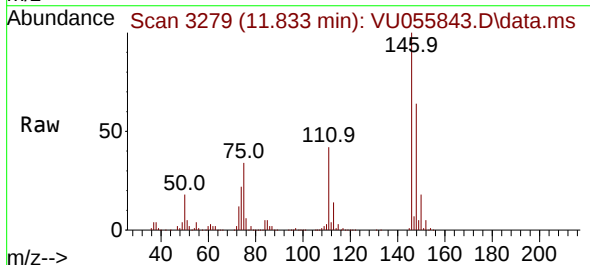
Instrument :
MSVOA_U
ClientSampleId :
E45J0MS

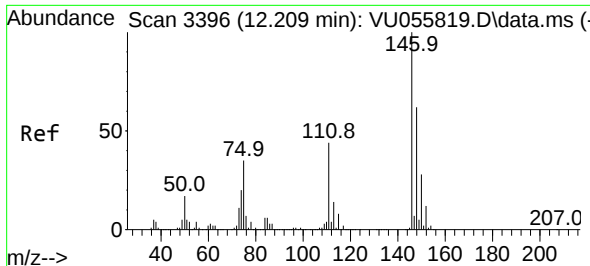
Tgt Ion:146 Resp: 469072
Ion Ratio Lower Upper
146 100
111 42.6 29.7 55.1
148 63.2 45.0 83.6



#65
1,4-Dichlorobenzene
Concen: 50.514 ug/L
RT: 11.833 min Scan# 3279
Delta R.T. 0.000 min
Lab File: VU055843.D
Acq: 20 Oct 2023 19:28

Tgt Ion:146 Resp: 464942
Ion Ratio Lower Upper
146 100
111 42.2 28.6 53.0
148 63.8 44.2 82.0





#67

1,2-Dichlorobenzene

Concen: 53.487 ug/L

RT: 12.209 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Instrument :

MSVOA_U

ClientSampleId :

E45J0MS

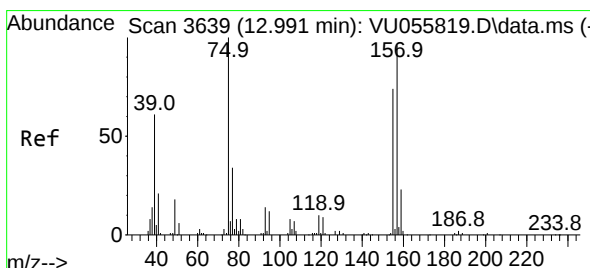
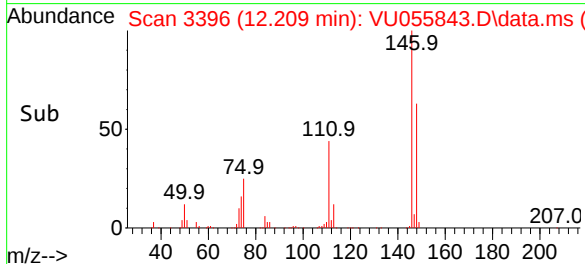
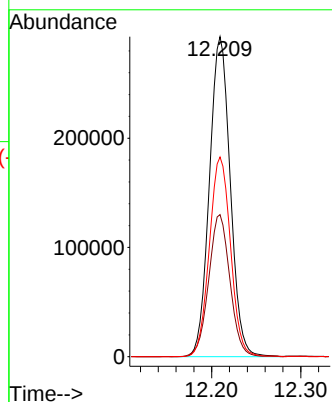
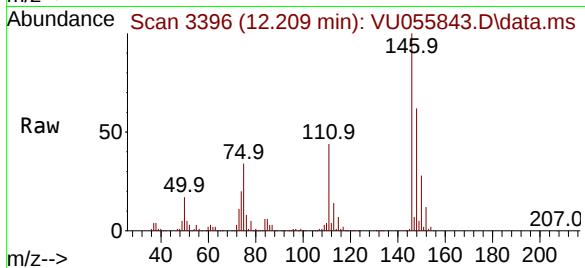
Tgt Ion:146 Resp: 475183

Ion Ratio Lower Upper

146 100

111 44.4 35.2 52.8

148 62.4 52.3 78.5



#68

1,2-Dibromo-3-chloropropane

Concen: 42.677 ug/L

RT: 12.994 min Scan# 3640

Delta R.T. 0.003 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

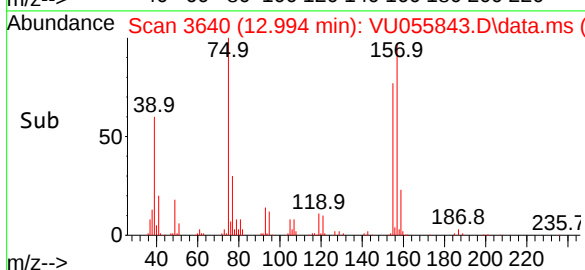
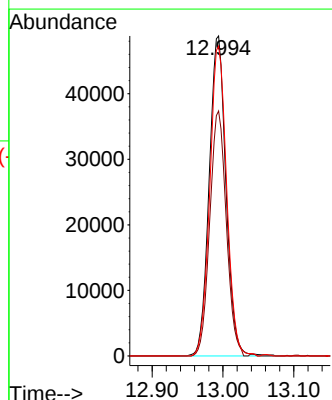
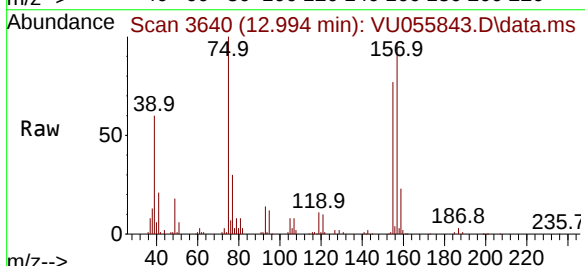
Tgt Ion: 75 Resp: 80439

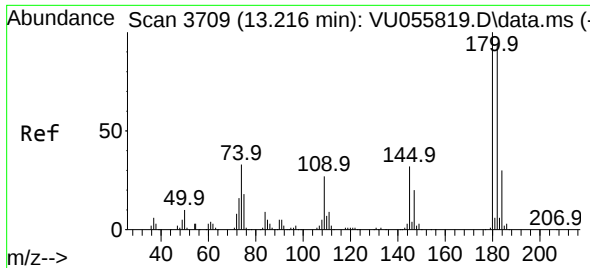
Ion Ratio Lower Upper

75 100

155 80.5 59.6 89.4

157 96.8 77.7 116.5

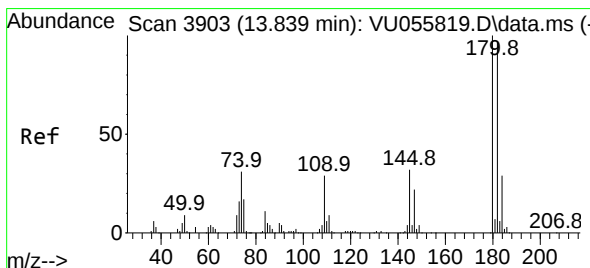
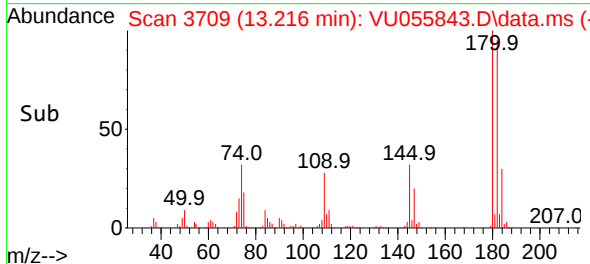
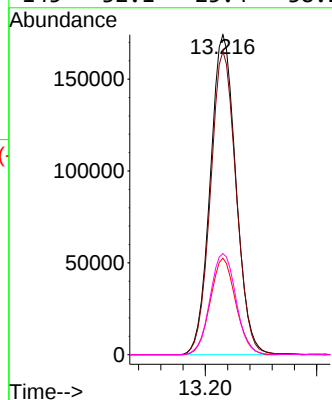
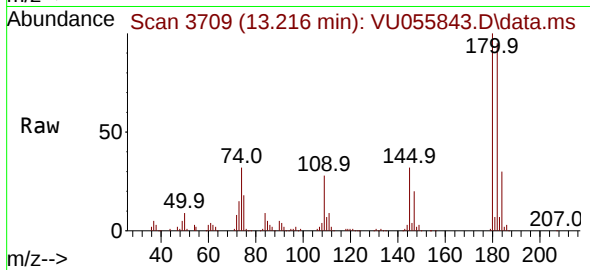




#69
 1,3,5-Trichlorobenzene
 Concen: 46.635 ug/L
 RT: 13.216 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VU055843.D
 Acq: 20 Oct 2023 19:28

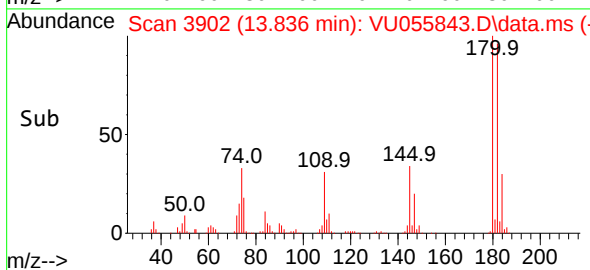
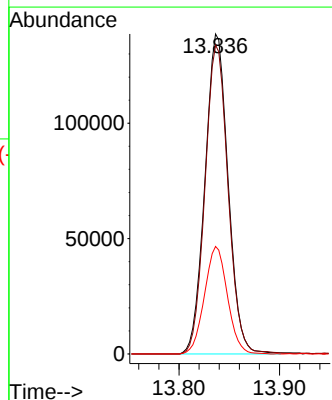
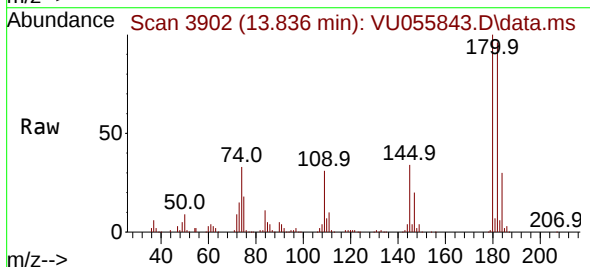
Instrument :
 MSVOA_U
 ClientSampleId :
 E45J0MS

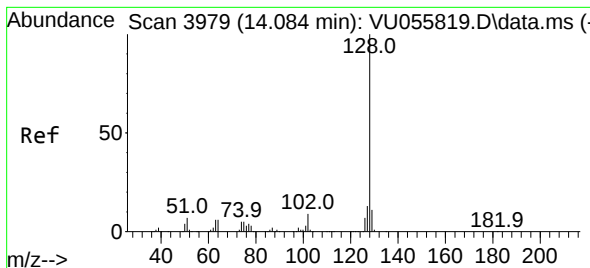
Tgt Ion:180 Resp: 278478
 Ion Ratio Lower Upper
 180 100
 182 94.6 76.2 114.2
 184 30.0 23.9 35.9
 145 32.1 25.4 38.2



#70
 1,2,4-trichlorobenzene
 Concen: 44.666 ug/L
 RT: 13.836 min Scan# 3902
 Delta R.T. -0.003 min
 Lab File: VU055843.D
 Acq: 20 Oct 2023 19:28

Tgt Ion:180 Resp: 222164
 Ion Ratio Lower Upper
 180 100
 182 96.0 75.4 113.2
 145 33.2 26.1 39.1





#71

Naphthalene

Concen: 45.081 ug/L

RT: 14.084 min Scan# 3979

Delta R.T. 0.000 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Instrument :

MSVOA_U

ClientSampleId :

E45J0MS

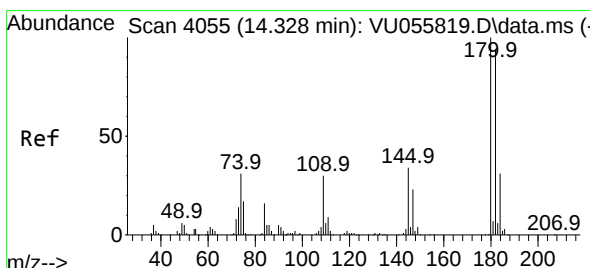
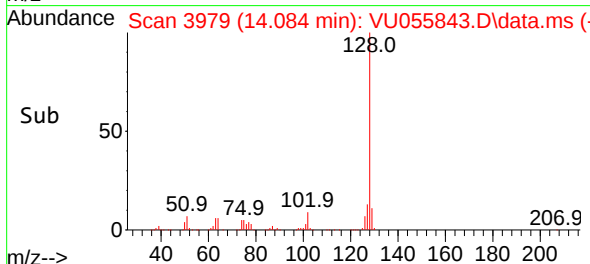
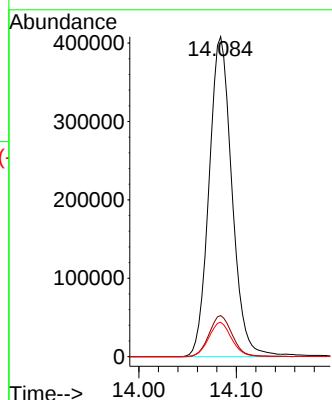
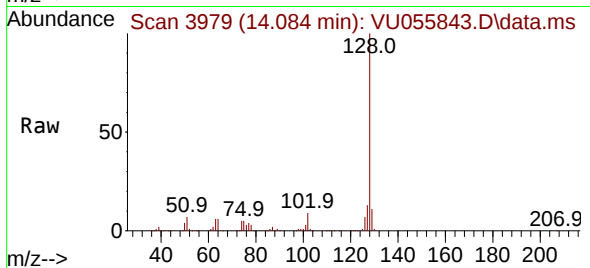
Tgt Ion:128 Resp: 666083

Ion Ratio Lower Upper

128 100

127 13.1 10.6 16.0

129 10.8 8.7 13.1



#72

1,2,3-Trichlorobenzene

Concen: 45.598 ug/L

RT: 14.325 min Scan# 4054

Delta R.T. -0.003 min

Lab File: VU055843.D

Acq: 20 Oct 2023 19:28

Tgt Ion:180 Resp: 223609

Ion Ratio Lower Upper

180 100

182 93.9 78.1 117.1

145 34.3 27.4 41.0

