

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020623\
 Data File : VU052979.D
 Acq On : 06 Feb 2023 14:41
 Operator : JC/MD
 Sample : 01422-09
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0B69

Quant Time: Feb 07 01:06:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR011023WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sun Feb 05 21:58:05 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	151738	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	152825	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	68240	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	44816	3.362	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	67.200%
7) Chloroethane-d5	1.912	69	43995	4.051	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	81.000%
11) 1,1-Dichloroethene-d2	2.562	65	20824	3.547	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.000%
20) 2-Butanone-d5	4.642	46	144202	40.457	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	80.920%
24) Chloroform-d	5.057	84	107029	4.304	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.000%
26) 1,2-Dichloroethane-d4	5.697	65	55472	4.344	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.800%
32) Benzene-d6	5.722	84	204980	4.138	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.800%
36) 1,2-Dichloropropane-d6	6.687	67	67827	4.109	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	82.200%
41) Toluene-d8	7.893	98	172260	3.944	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.800%
43) trans-1,3-Dichloroprop...	8.176	79	23559	3.838	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.800%
46) 2-Hexanone-d5	8.635	63	119446	46.843	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.680%
56) 1,1,2,2-Tetrachloroeth...	10.754	84	61382	4.857	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.200%
66) 1,2-Dichlorobenzene-d4	12.188	152	70041	5.638	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	112.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.604	62	620640	32.767	ug/L	98
12) 1,1-Dichloroethene	2.575	96	13768	1.047	ug/L #	41
15) Methyl Acetate	2.957	43	3387	0.553	ug/L	99
17) Methyl tert-butyl Ether	3.359	73	5635	0.194	ug/L #	88
18) trans-1,2-Dichloroethene	3.349	96	62382	4.650	ug/L	85
21) 2-Butanone	4.726	43	24625	5.984	ug/L	90
22) cis-1,2-Dichloroethene	4.658	96	2696517	187.153	ug/L	91
25) Chloroform	5.083	83	66329	2.422	ug/L	99
34) Trichloroethene	6.536	95	1928563	134.785	ug/L	98
35) Methylcyclohexane	6.684	83	15895	0.673	ug/L #	16
37) 1,2-Dichloropropane	6.787	63	13283	0.818	ug/L	99
38) Bromodichloromethane	7.102	83	33870	1.772	ug/L	100
42) Toluene	7.967	91	518854	8.611	ug/L	100
45) 1,1,2-Trichloroethane	8.558	97	74969	7.342	ug/L #	1
47) Tetrachloroethene	8.558	164	8647334	820.259	ug/L	98
48) 2-Hexanone	8.687	43	5209	0.766	ug/L #	84
49) Dibromochloromethane	8.558	129	8480931	718.440	ug/L #	11
52) Ethylbenzene	9.568	91	9199	0.150	ug/L	98
53) m,p-Xylene	9.687	106	5493	0.236	ug/L	85

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QLast Update : Sun Feb 05 21:58:05 2023
Response via : Initial Calibration

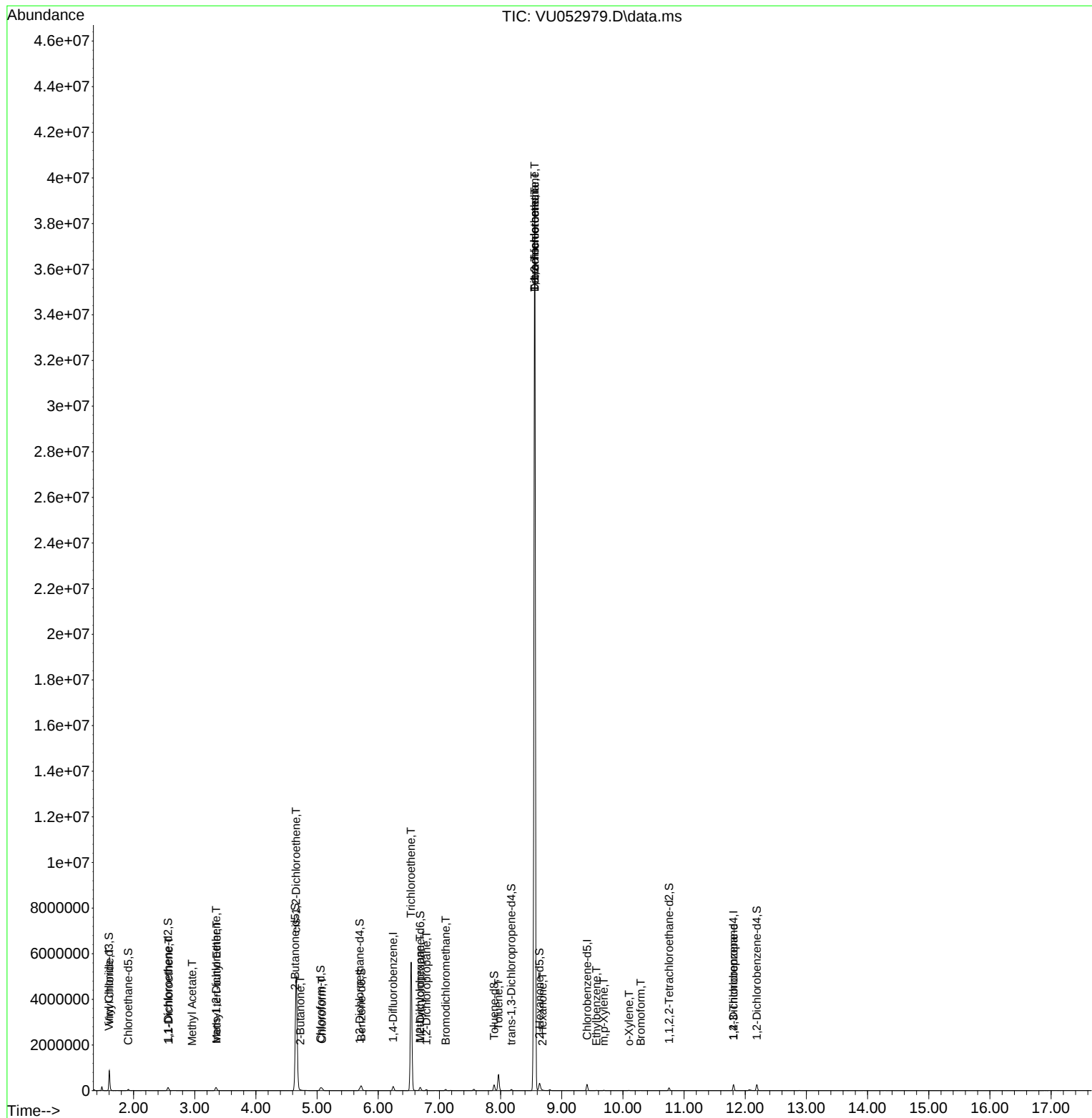
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.098	106	3461	0.156	ug/L	92
59) Bromoform	10.291	173	3342	0.630	ug/L #	92
61) 1,2,3-Trichloropropane	11.809	75	7900	0.996	ug/L #	68

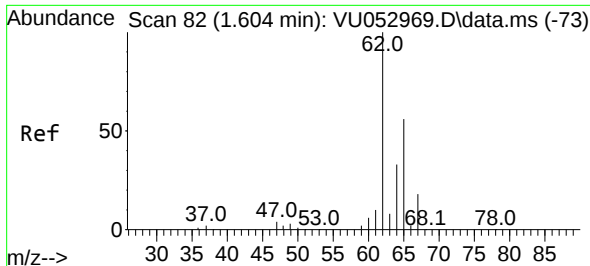
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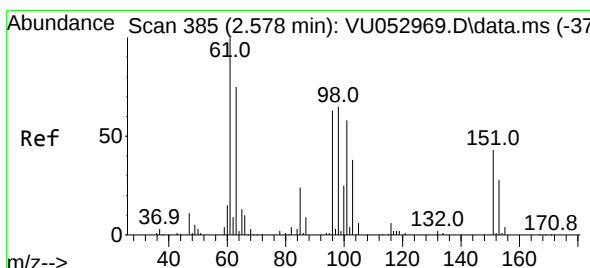
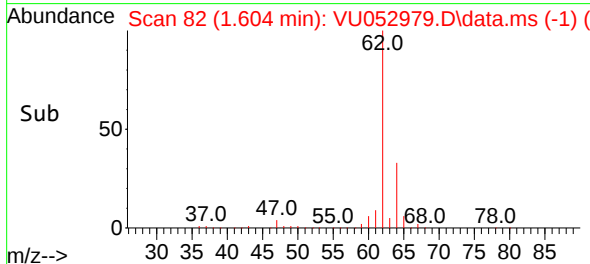
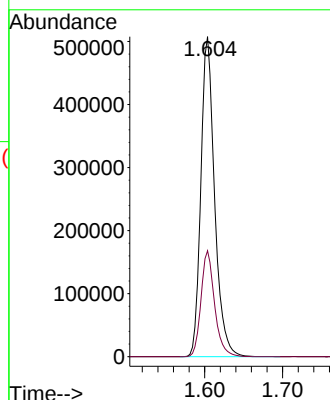
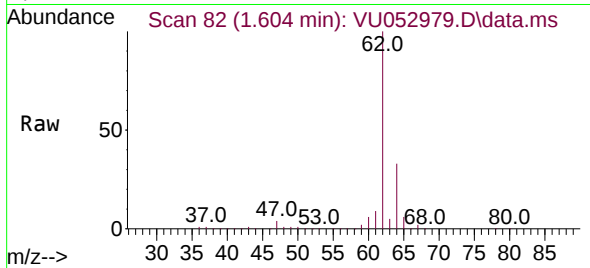




#5
 Vinyl chloride
 Concen: 32.767 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VU052979.D
 Acq: 06 Feb 2023 14:41

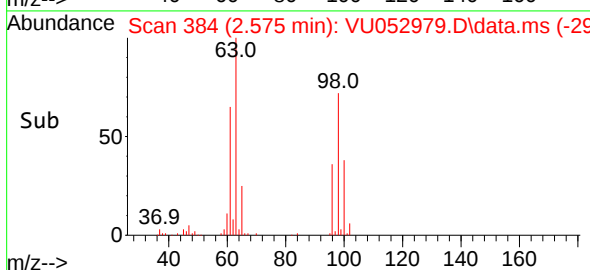
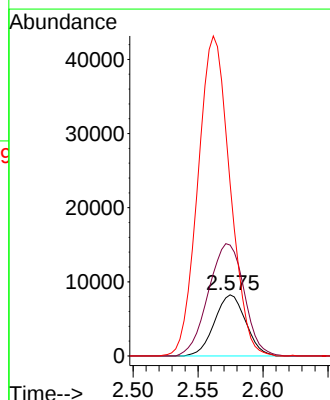
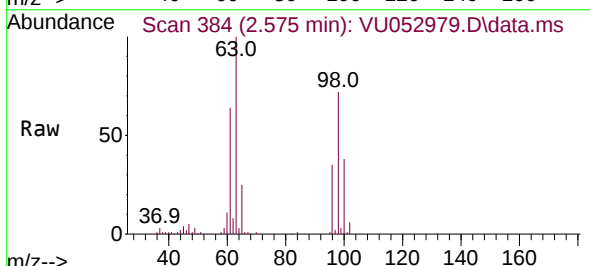
Instrument :
 MSVOA_U
 ClientSampleId :
 C0B69

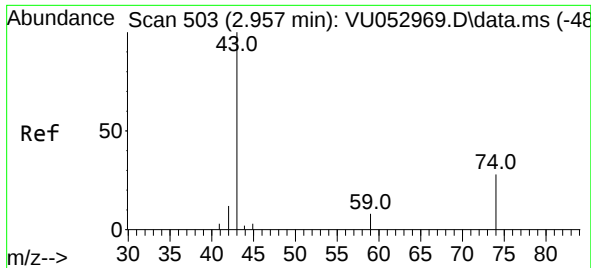
Tgt Ion: 62 Resp: 620640
 Ion Ratio Lower Upper
 62 100
 64 33.1 22.3 41.3



#12
 1,1-Dichloroethene
 Concen: 1.047 ug/L
 RT: 2.575 min Scan# 384
 Delta R.T. -0.003 min
 Lab File: VU052979.D
 Acq: 06 Feb 2023 14:41

Tgt Ion: 96 Resp: 13768
 Ion Ratio Lower Upper
 96 100
 61 181.5 129.6 240.8
 63 282.2 83.7 155.5#

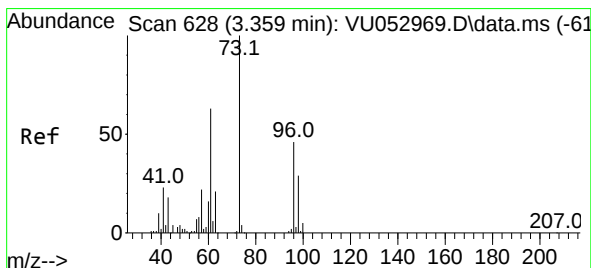
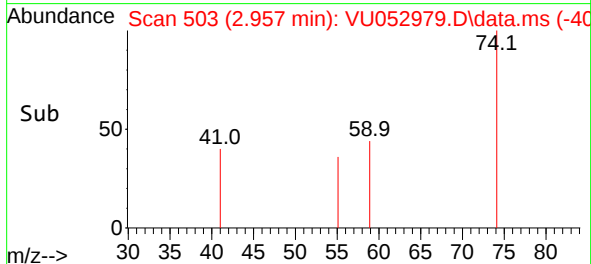
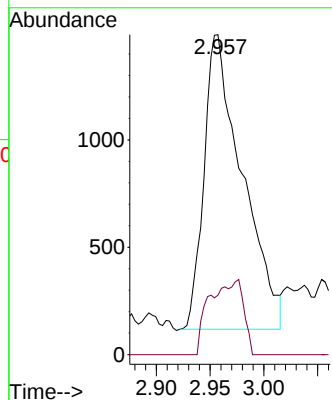
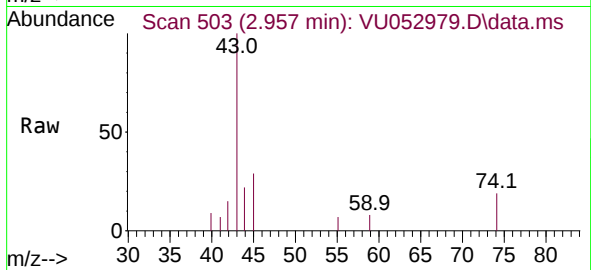




#15
Methyl Acetate
Concen: 0.553 ug/L
RT: 2.957 min Scan# 503
Delta R.T. 0.003 min
Lab File: VU052979.D
Acq: 06 Feb 2023 14:41

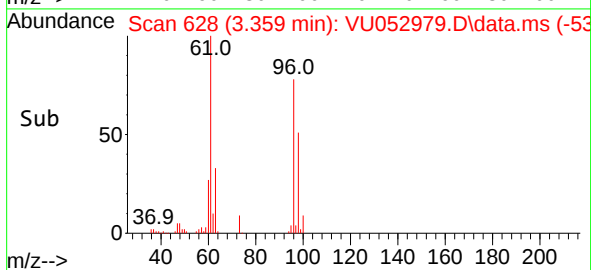
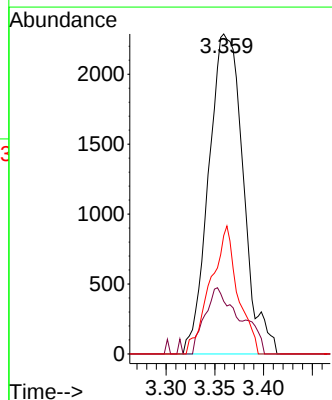
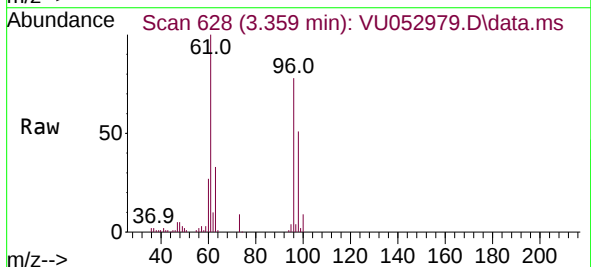
Instrument :
MSVOA_U
ClientSampleId :
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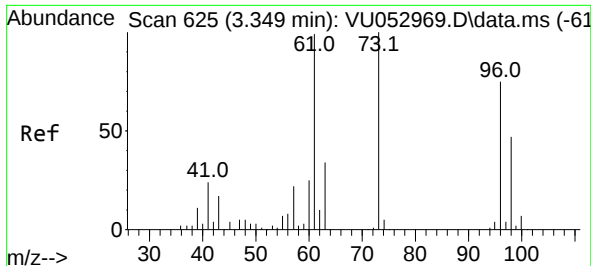
Tgt Ion: 43 Resp: 3387
Ion Ratio Lower Upper
43 100
74 22.4 17.5 26.3



#17
Methyl tert-butyl Ether
Concen: 0.194 ug/L
RT: 3.359 min Scan# 628
Delta R.T. 0.003 min
Lab File: VU052979.D
Acq: 06 Feb 2023 14:41

Tgt Ion: 73 Resp: 5635
Ion Ratio Lower Upper
73 100
43 17.1 15.8 23.8
57 31.6 18.6 28.0#

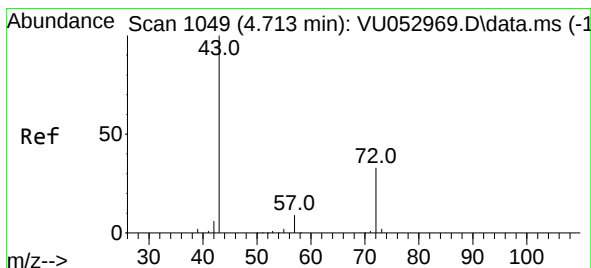
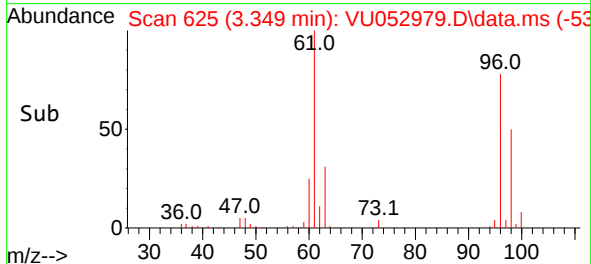
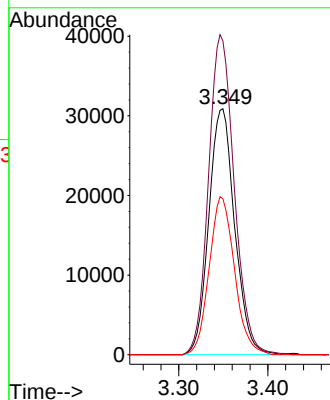
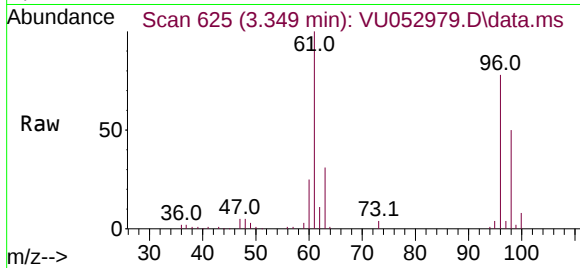




#18
trans-1,2-Dichloroethene
Concen: 4.650 ug/L
RT: 3.349 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU052979.D
Acq: 06 Feb 2023 14:41

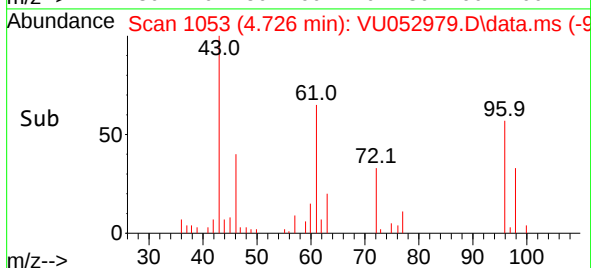
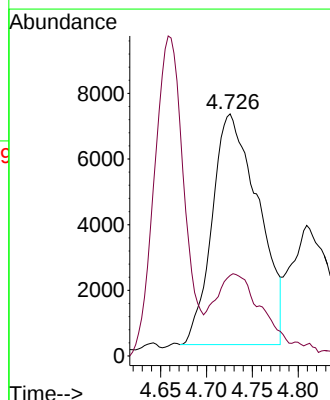
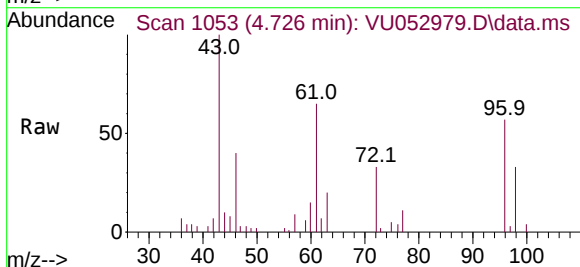
Instrument :
MSVOA_U
ClientSampleId :
C0B69

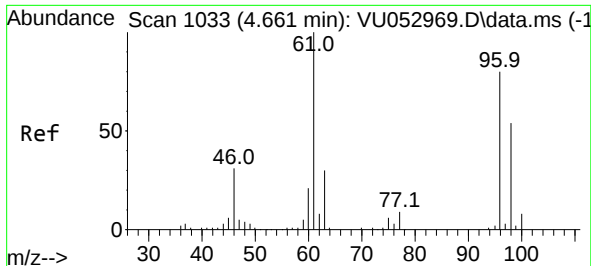
Tgt Ion: 96 Resp: 62382
Ion Ratio Lower Upper
96 100
61 127.6 108.4 201.4
98 63.4 43.8 81.4



#21
2-Butanone
Concen: 5.984 ug/L
RT: 4.726 min Scan# 1053
Delta R.T. 0.013 min
Lab File: VU052979.D
Acq: 06 Feb 2023 14:41

Tgt Ion: 43 Resp: 24625
Ion Ratio Lower Upper
43 100
72 30.5 12.9 38.6





#22

cis-1,2-Dichloroethene

Concen: 187.153 ug/L

RT: 4.658 min Scan# 1032

Delta R.T. -0.003 min

Lab File: VU052979.D

Acq: 06 Feb 2023 14:41

Instrument :

MSVOA_U

ClientSampleId :

C0B69

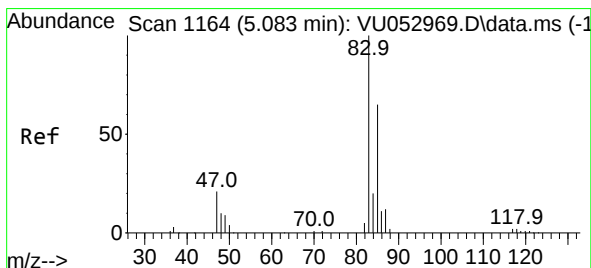
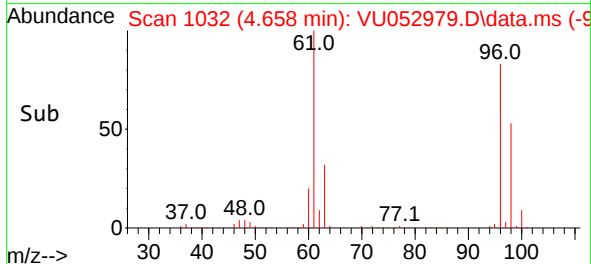
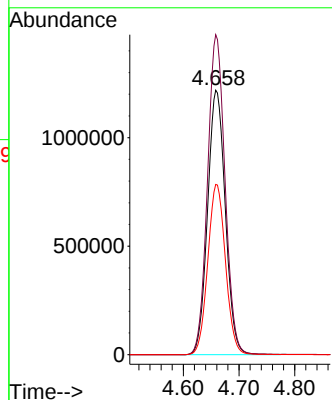
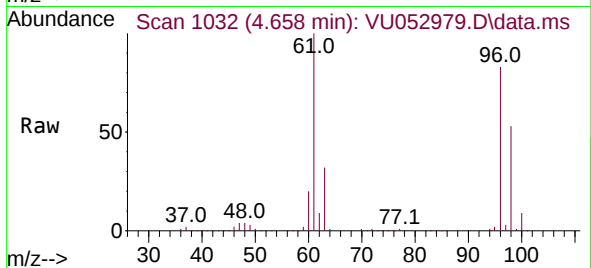
Tgt Ion: 96 Resp: 2696517

Ion Ratio Lower Upper

96 100

61 121.0 94.6 175.8

98 64.4 43.3 80.3



#25

Chloroform

Concen: 2.422 ug/L

RT: 5.083 min Scan# 1164

Delta R.T. -0.000 min

Lab File: VU052979.D

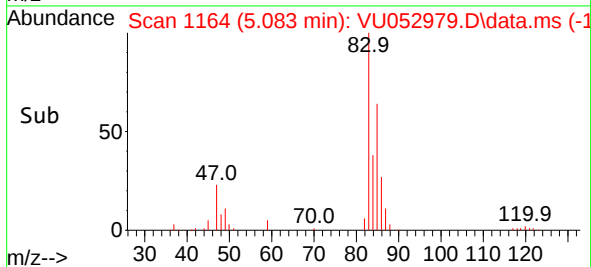
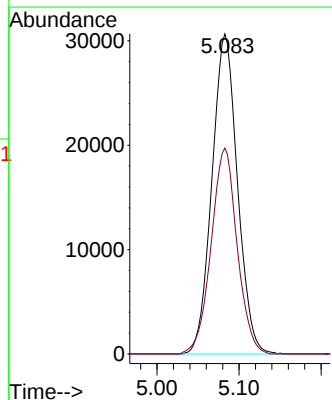
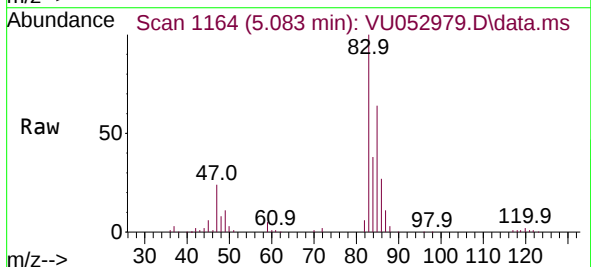
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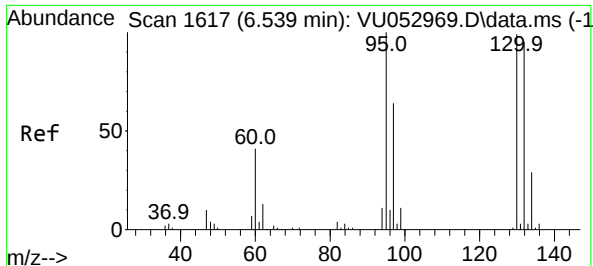
Tgt Ion: 83 Resp: 66329

Ion Ratio Lower Upper

83 100

85 64.3 45.6 84.6

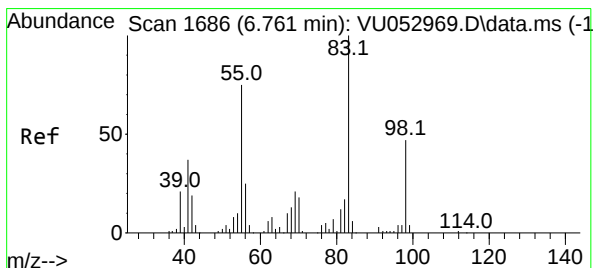
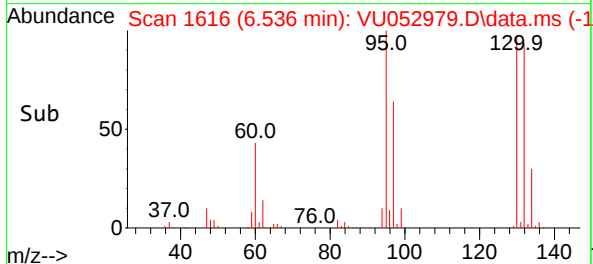
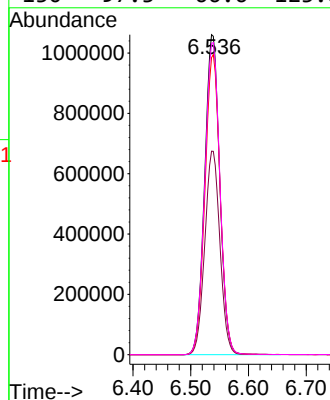
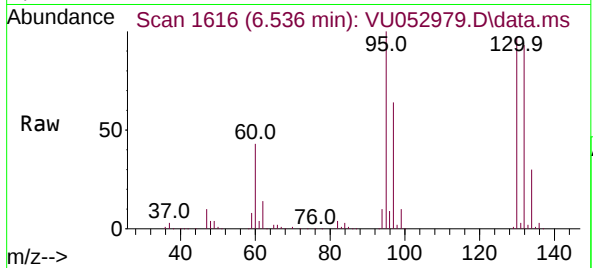




#34
Trichloroethene
Concen: 134.785 ug/L
RT: 6.536 min Scan# 1616
Delta R.T. -0.000 min
Lab File: VU052979.D
Acq: 06 Feb 2023 14:41

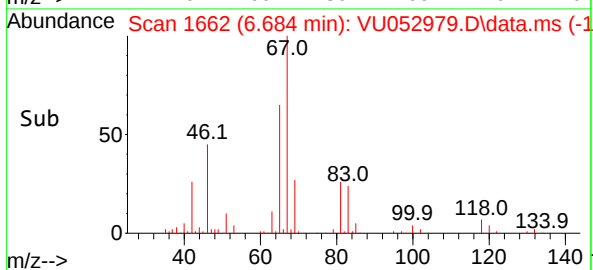
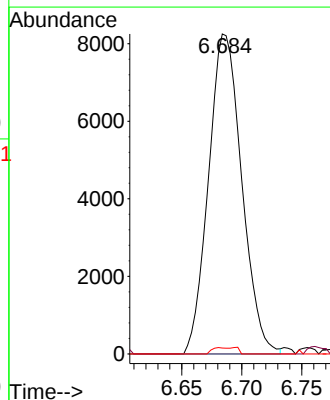
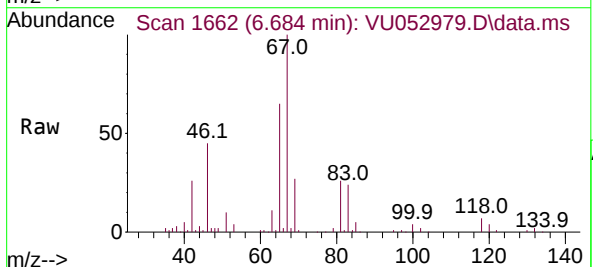
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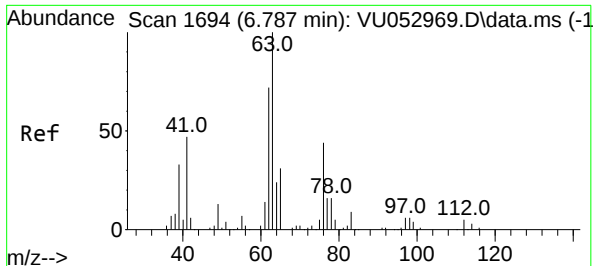
Tgt Ion: 95 Resp: 1928563
Ion Ratio Lower Upper
95 100
97 63.6 46.0 85.4
132 92.9 64.0 118.8
130 97.3 66.6 123.8



#35
Methylcyclohexane
Concen: 0.673 ug/L
RT: 6.684 min Scan# 1662
Delta R.T. -0.074 min
Lab File: VU052979.D
Acq: 06 Feb 2023 14:41

Tgt Ion: 83 Resp: 15895
Ion Ratio Lower Upper
83 100
55 1.1 67.6 101.4#
98 0.0 37.1 55.7#





#37

1,2-Dichloropropane

Concen: 0.818 ug/L

RT: 6.787 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU052979.D

Acq: 06 Feb 2023 14:41

Instrument :

MSVOA_U

ClientSampleId :

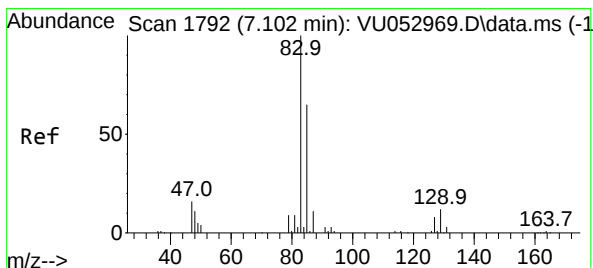
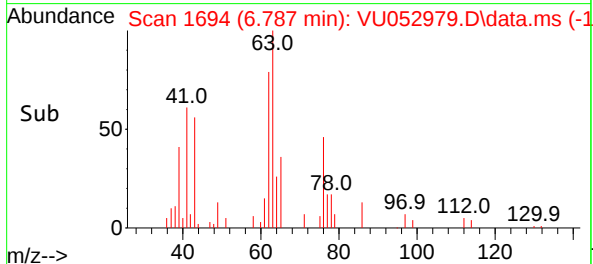
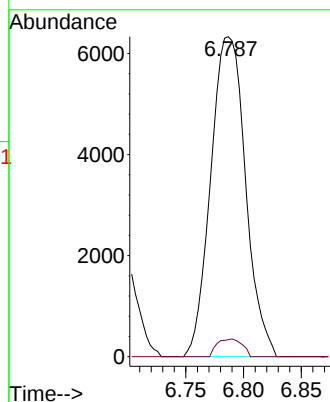
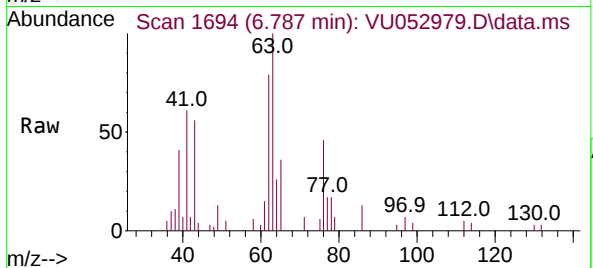
C0B69

Tgt Ion: 63 Resp: 13283

Ion Ratio Lower Upper

63 100

112 4.0 2.9 4.3



#38

Bromodichloromethane

Concen: 1.772 ug/L

RT: 7.102 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VU052979.D

Acq: 06 Feb 2023 14:41

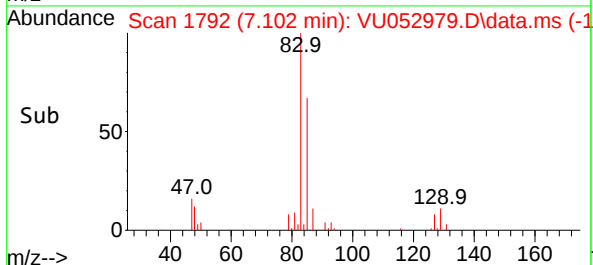
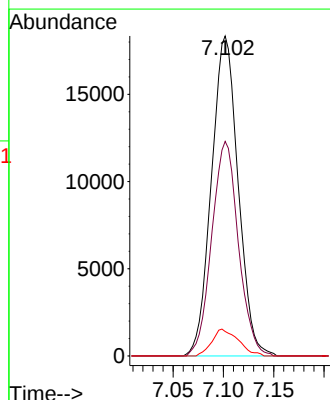
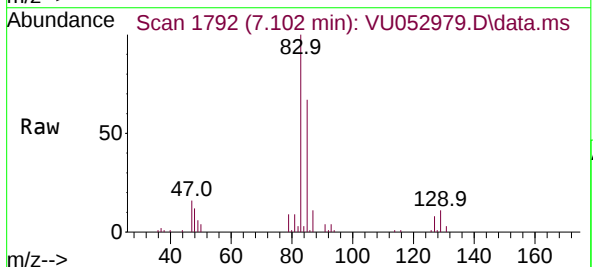
Tgt Ion: 83 Resp: 33870

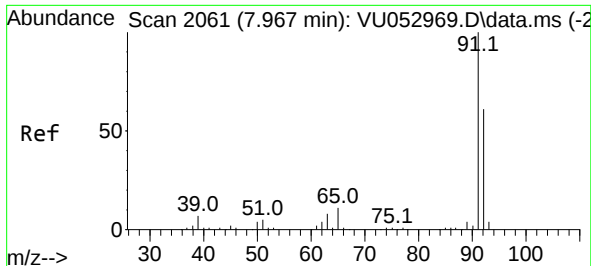
Ion Ratio Lower Upper

83 100

85 67.0 47.0 87.4

127 7.7 6.9 10.3





#42

Toluene

Concen: 8.611 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. -0.000 min

Lab File: VU052979.D

Acq: 06 Feb 2023 14:41

Instrument :

MSVOA_U

ClientSampleId :

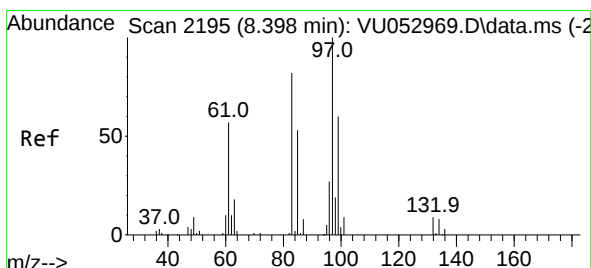
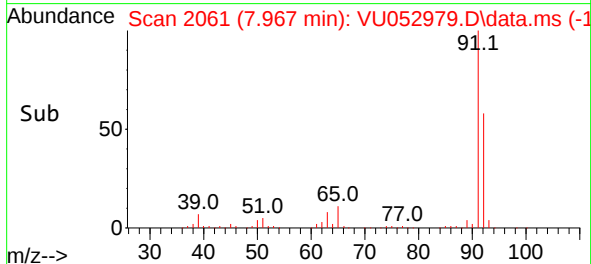
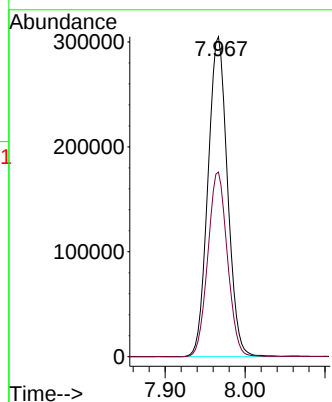
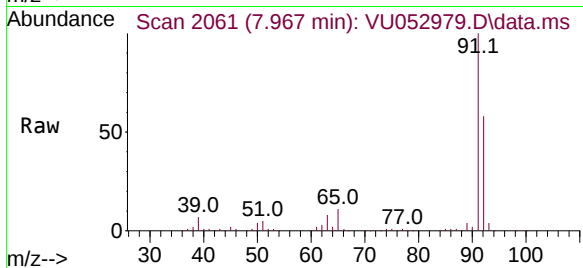
C0B69

Tgt Ion: 91 Resp: 518854

Ion Ratio Lower Upper

91 100

92 57.7 40.5 75.1



#45

1,1,2-Trichloroethane

Concen: 7.342 ug/L

RT: 8.558 min Scan# 2245

Delta R.T. 0.164 min

Lab File: VU052979.D

Acq: 06 Feb 2023 14:41

Tgt Ion: 97 Resp: 74969

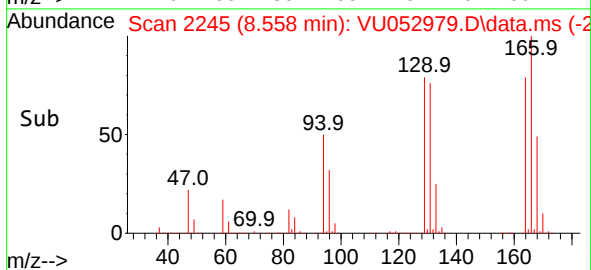
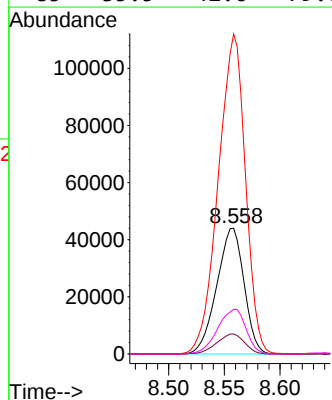
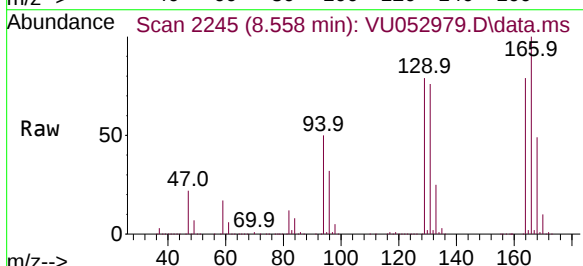
Ion Ratio Lower Upper

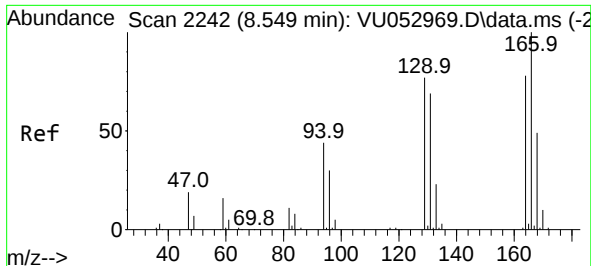
97 100

99 16.0 44.8 83.2#

83 254.5 65.3 121.3#

85 35.5 42.6 79.0#





#47

Tetrachloroethene

Concen: 820.259 ug/L

RT: 8.558 min Scan# 21

Delta R.T. 0.009 min

Lab File: VU052979.D

Acq: 06 Feb 2023 14:41

Instrument :

MSVOA_U

ClientSampleId :

C0B69

Tgt Ion:164 Resp: 8647334

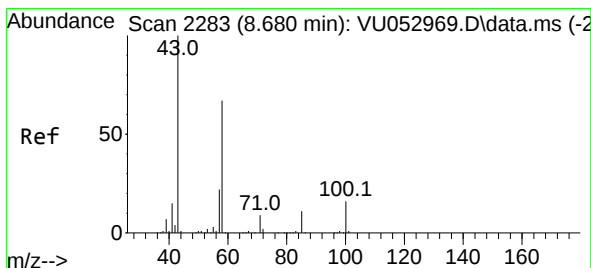
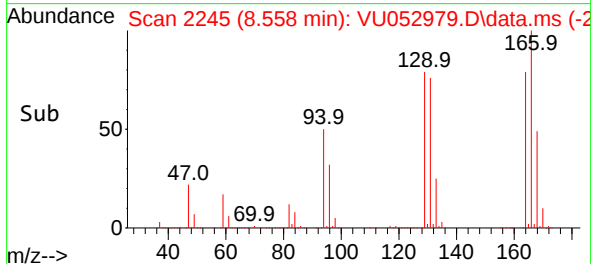
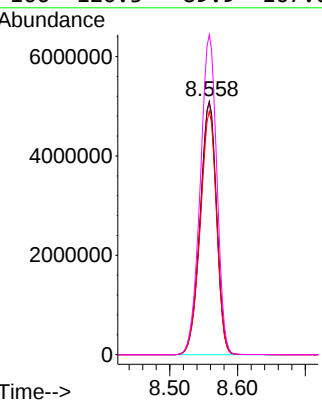
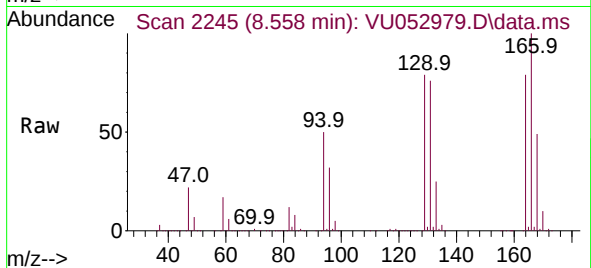
Ion Ratio Lower Upper

164 100

129 99.3 71.8 133.4

131 96.0 66.6 123.6

166 126.3 89.9 167.0



#48

2-Hexanone

Concen: 0.766 ug/L

RT: 8.687 min Scan# 2285

Delta R.T. 0.006 min

Lab File: VU052979.D

Acq: 06 Feb 2023 14:41

Tgt Ion: 43 Resp: 5209

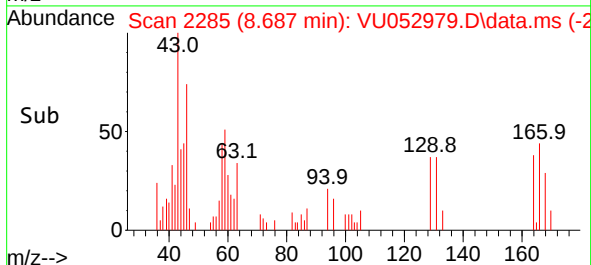
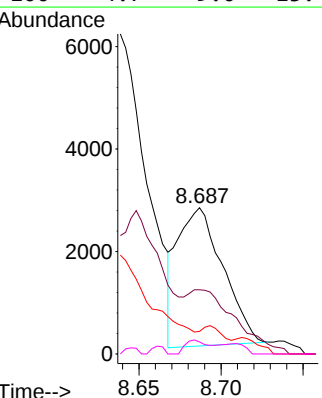
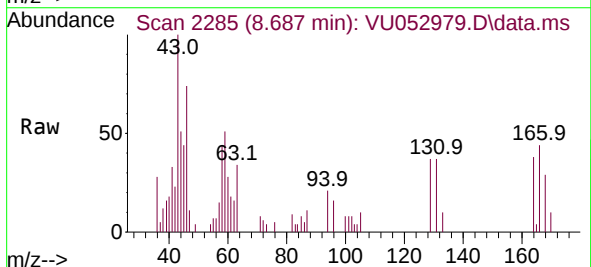
Ion Ratio Lower Upper

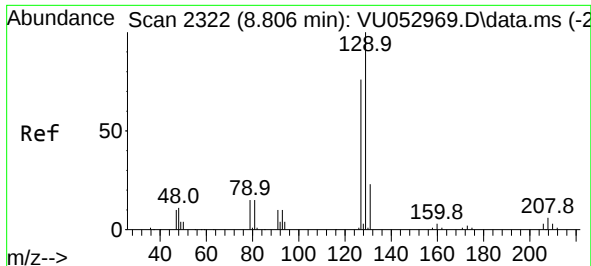
43 100

58 48.0 45.1 67.7

57 5.0 15.1 22.7#

100 4.7 9.0 13.4#

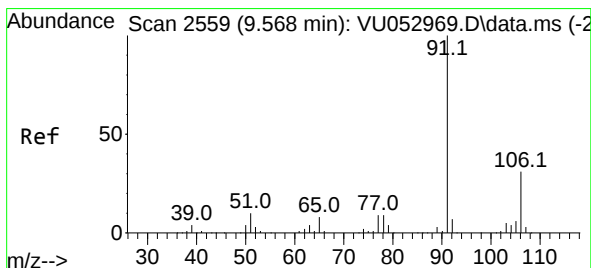
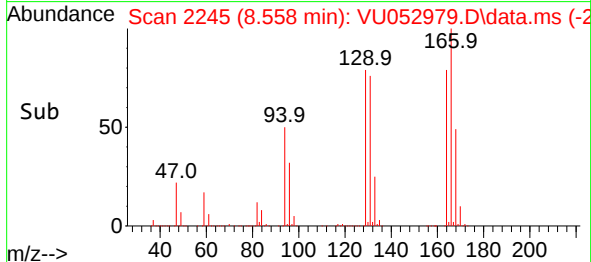
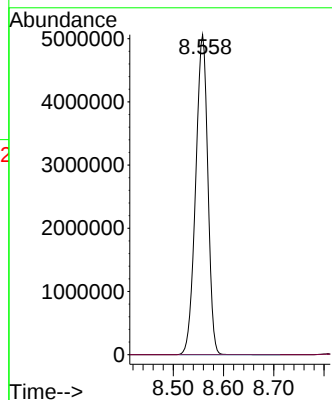
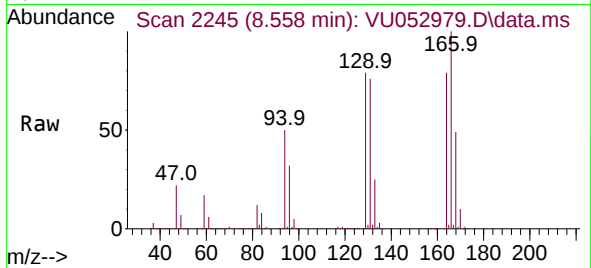




#49
Dibromochloromethane
Concen: 718.440 ug/L
RT: 8.558 min Scan# 211
Delta R.T. -0.248 min
Lab File: VU052979.D
Acq: 06 Feb 2023 14:41

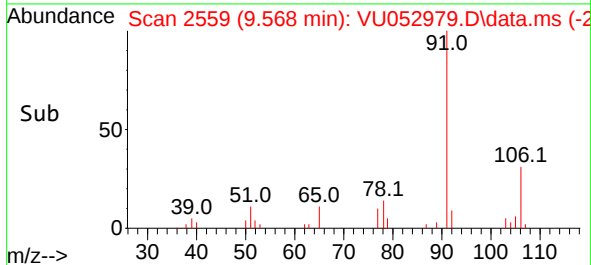
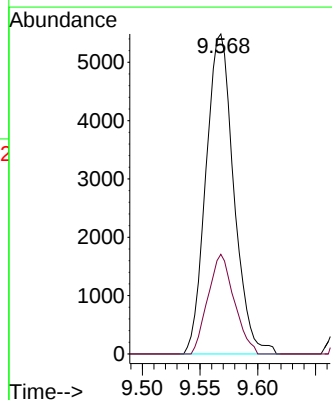
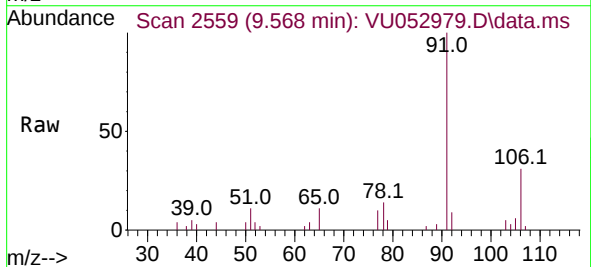
Instrument :
MSVOA_U
ClientSampleId :
C0B69

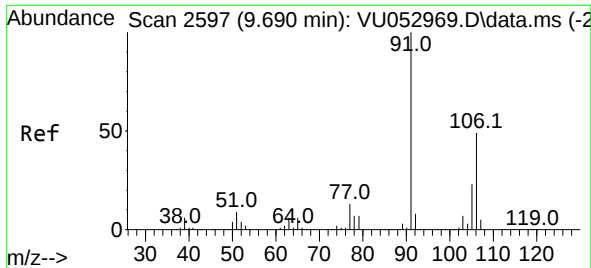
Tgt Ion:129 Resp: 8480931
Ion Ratio Lower Upper
129 100
127 0.0 53.5 99.5#



#52
Ethylbenzene
Concen: 0.150 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. -0.000 min
Lab File: VU052979.D
Acq: 06 Feb 2023 14:41

Tgt Ion: 91 Resp: 9199
Ion Ratio Lower Upper
91 100
106 31.1 21.1 39.3

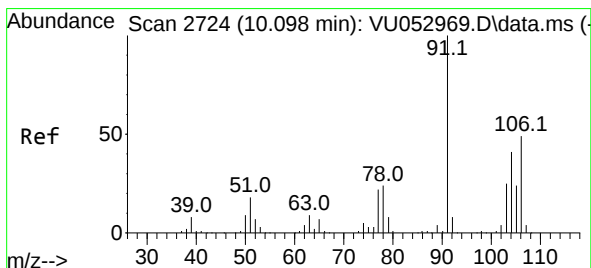
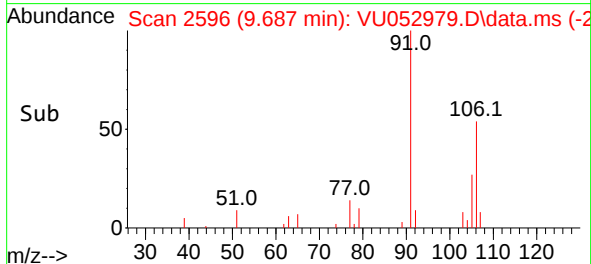
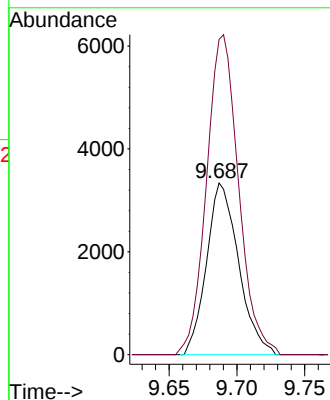
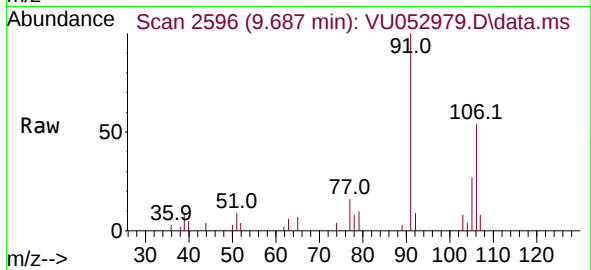




#53
m,p-Xylene
Concen: 0.236 ug/L
RT: 9.687 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU052979.D
Acq: 06 Feb 2023 14:41

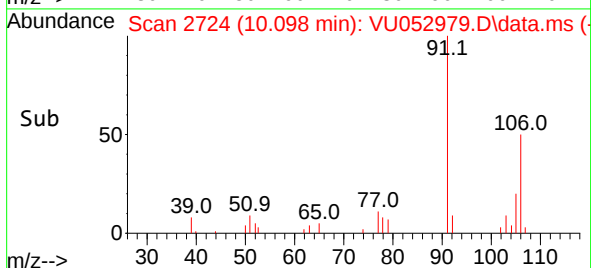
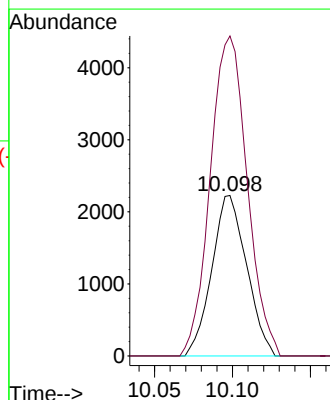
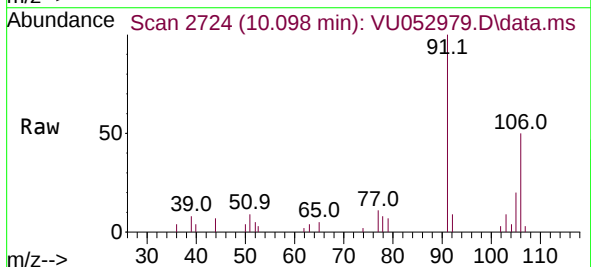
Instrument :
MSVOA_U
ClientSampleId :
C0B69

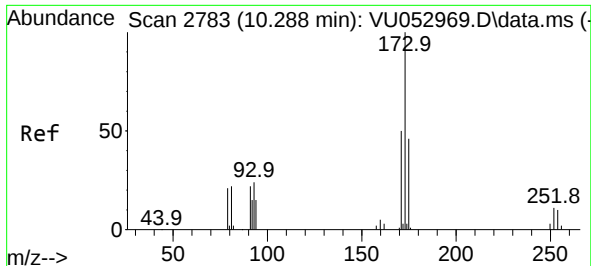
Tgt Ion:106 Resp: 5493
Ion Ratio Lower Upper
106 100
91 183.7 144.3 267.9



#54
o-Xylene
Concen: 0.156 ug/L
RT: 10.098 min Scan# 2724
Delta R.T. -0.000 min
Lab File: VU052979.D
Acq: 06 Feb 2023 14:41

Tgt Ion:106 Resp: 3461
Ion Ratio Lower Upper
106 100
91 199.4 148.7 276.1

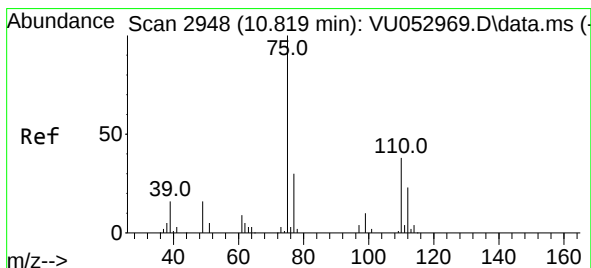
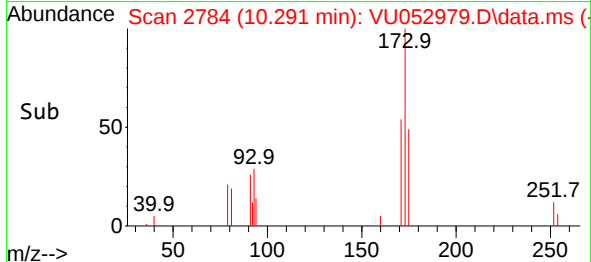
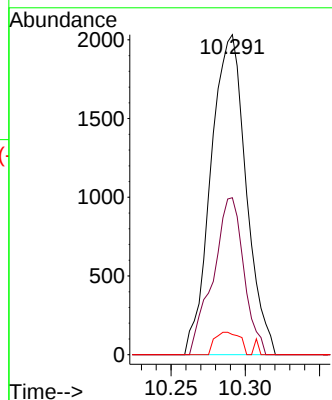
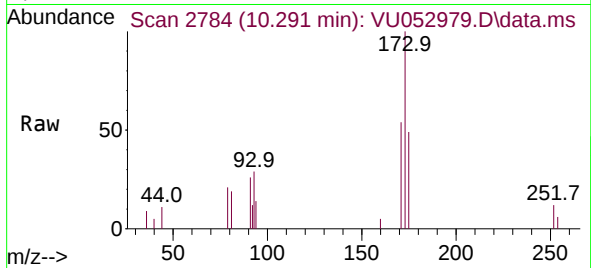




#59
Bromoform
Concen: 0.630 ug/L
RT: 10.291 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU052979.D
Acq: 06 Feb 2023 14:41

Instrument :
MSVOA_U
ClientSampleId :
C0B69

Tgt Ion:173 Resp: 3342
Ion Ratio Lower Upper
173 100
175 43.1 38.2 57.4
254 5.0 7.3 10.9#



#61
1,2,3-Trichloropropane
Concen: 0.996 ug/L
RT: 11.809 min Scan# 3256
Delta R.T. 0.990 min
Lab File: VU052979.D
Acq: 06 Feb 2023 14:41

Tgt Ion: 75 Resp: 7900
Ion Ratio Lower Upper
75 100
110 1.1 27.2 40.8#
77 32.3 24.0 36.0

