

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U092022\
 Data File : VU050869.D
 Acq On : 21 Sep 2022 06:33
 Operator : JC/MD
 Sample : N4650-17
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ12

Quant Time: Sep 21 07:03:38 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092022WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Sep 21 04:30:12 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	418317	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	404497	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	179122	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	184939	42.671	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	85.340%		
7) Chloroethane-d5	1.909	69	150301	48.693	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	97.380%		
11) 1,1-Dichloroethene-d2	2.565	63	246343	36.529	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	73.060%		
21) 2-Butanone-d5	4.620	46	324995	116.151	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	116.150%		
24) Chloroform-d	5.060	84	321165	47.286	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	94.580%		
26) 1,2-Dichloroethane-d4	5.700	65	204066	48.753	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	97.500%		
32) Benzene-d6	5.726	84	650382	48.815	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	97.640%		
36) 1,2-Dichloropropane-d6	6.690	67	222344	49.440	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	98.880%		
41) Toluene-d8	7.896	98	517878	44.468	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	88.940%		
43) trans-1,3-Dichloroprop...	8.179	79	85763	43.837	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	87.680%		
47) 2-Hexanone-d5	8.629	63	188085	101.486	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	101.490%		
56) 1,1,2,2-Tetrachloroeth...	10.755	84	330693	48.231	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	96.460%		
66) 1,2-Dichlorobenzene-d4	12.192	152	193164	51.505	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	103.020%		
Target Compounds						Qvalue
5) Vinyl chloride	1.604	62	188626	38.262	ug/L	98
8) Chloroethane	1.929	64	361193	132.329	ug/L	98
9) Trichlorofluoromethane	2.134	101	3133	0.586	ug/L	97
12) 1,1-Dichloroethene	2.578	96	40750	12.671	ug/L #	10
13) Acetone	2.626	43	7139	3.013	ug/L	97
17) trans-1,2-Dichloroethene	3.353	96	22197	6.734	ug/L	95
19) 1,1-Dichloroethane	3.867	63	1947074	292.343	ug/L	98
20) cis-1,2-Dichloroethene	4.665	96	3163518	865.595	ug/L	99
27) 1,2-Dichloroethane	5.793	62	16051	3.182	ug/L	98
30) 1,1,1-Trichloroethane	5.314	97	1833511	340.716	ug/L	99
33) Benzene	5.777	78	13799	0.927	ug/L	100
34) Trichloroethene	6.539	95	32357	9.358	ug/L	97
42) Toluene	7.967	91	145255	9.829	ug/L	98
45) 1,1,2-Trichloroethane	8.398	97	2685	0.715	ug/L	96
46) Tetrachloroethene	8.552	164	38248	15.392	ug/L	93
52) Ethylbenzene	9.568	91	62620	4.248	ug/L	100
53) m,p-Xylene	9.690	106	63504	11.586	ug/L	96
54) o-Xylene	10.099	106	60651	11.106	ug/L	98
62) 1,3,5-Trimethylbenzene	11.086	105	90416	8.592	ug/L	100

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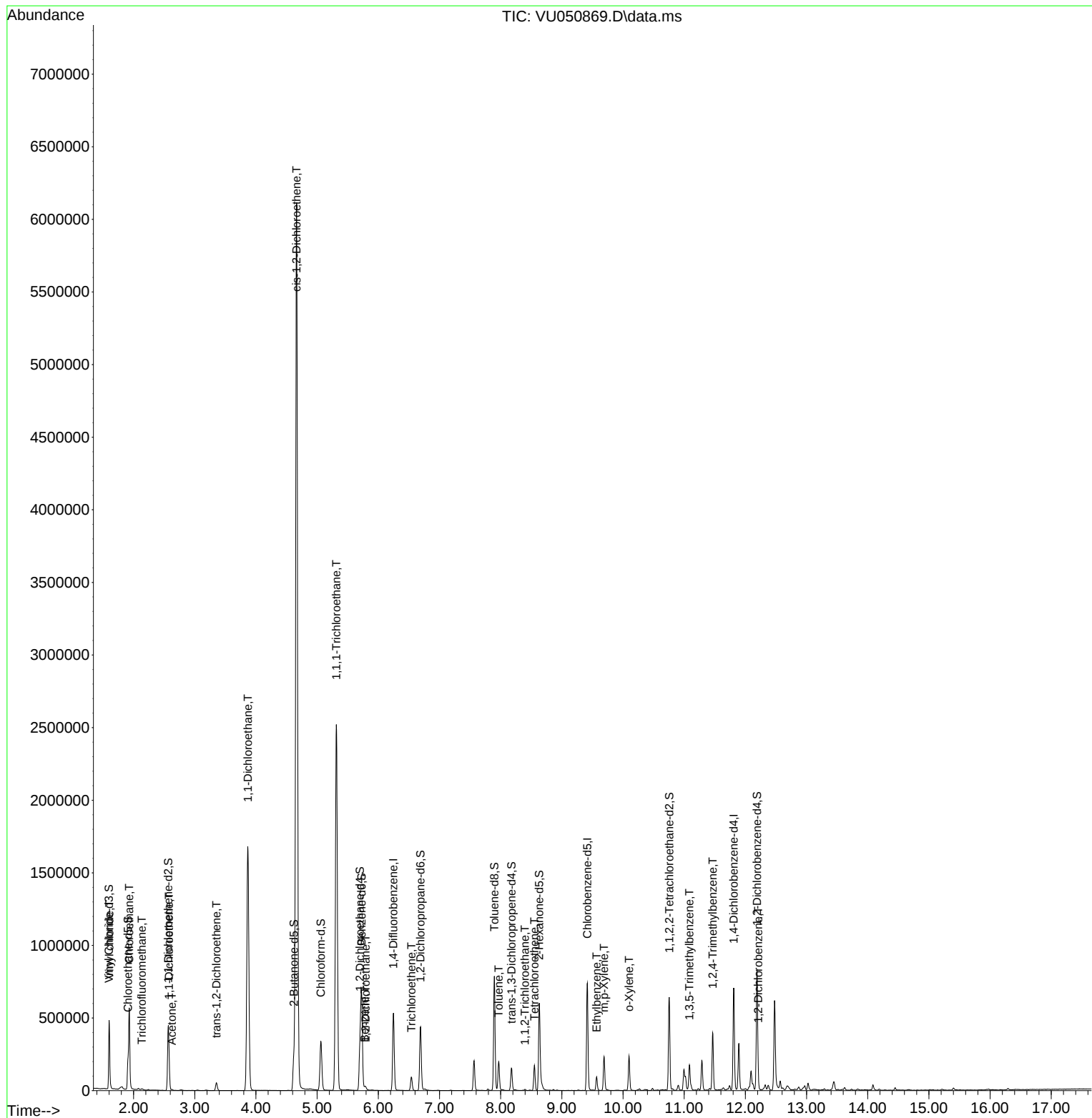
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	11.465	105	210537	20.203	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	6657	1.074	ug/L	91

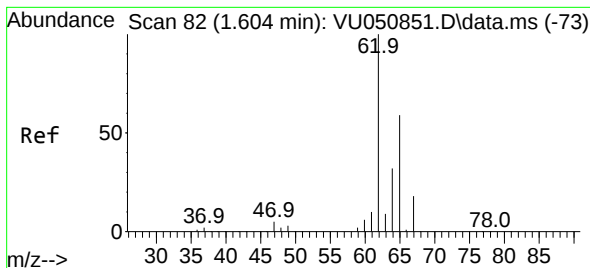
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 21 04:30:12 2022
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#5

Vinyl chloride

Concen: 38.262 ug/L

RT: 1.604 min Scan# 81

Delta R.T. 0.000 min

Lab File: VU050869.D

Acq: 21 Sep 2022 06:33

Instrument :

MSVOA_U

ClientSampleId :

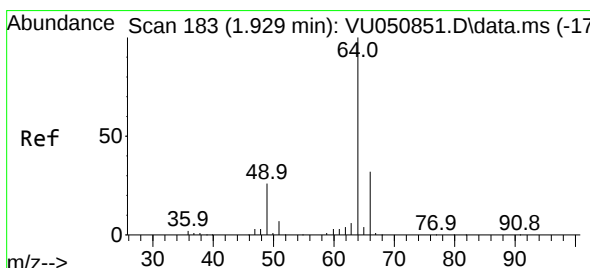
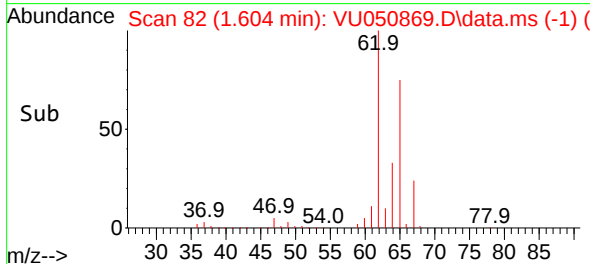
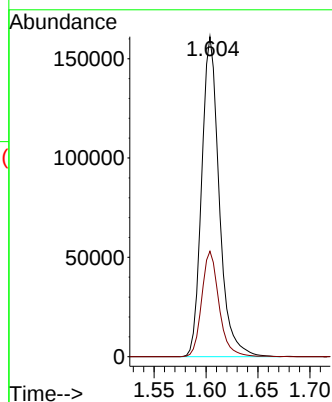
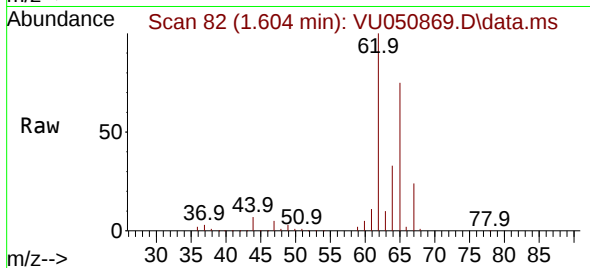
EXZ12

Tgt Ion: 62 Resp: 188626

Ion Ratio Lower Upper

62 100

64 32.9 22.2 41.2



#8

Chloroethane

Concen: 132.329 ug/L

RT: 1.929 min Scan# 183

Delta R.T. 0.000 min

Lab File: VU050869.D

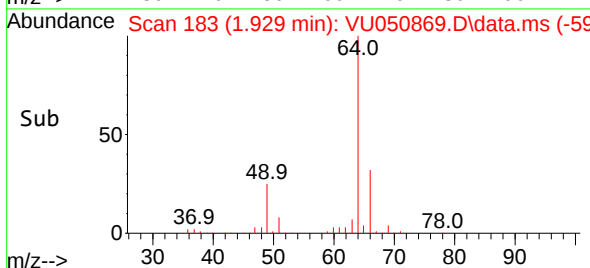
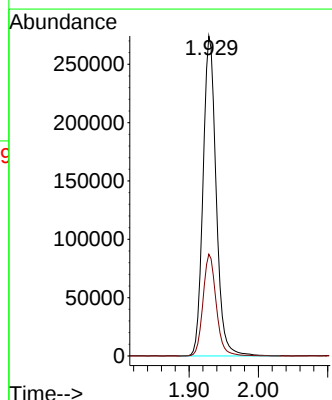
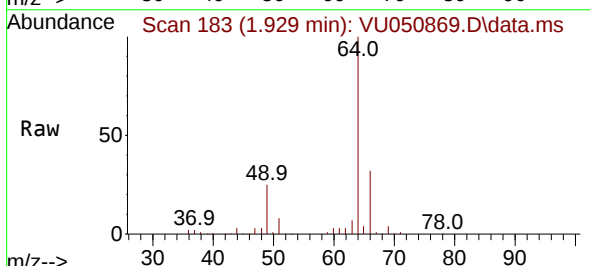
Acq: 21 Sep 2022 06:33

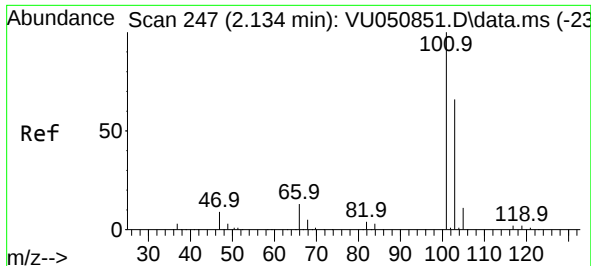
Tgt Ion: 64 Resp: 361193

Ion Ratio Lower Upper

64 100

66 31.8 22.9 42.5

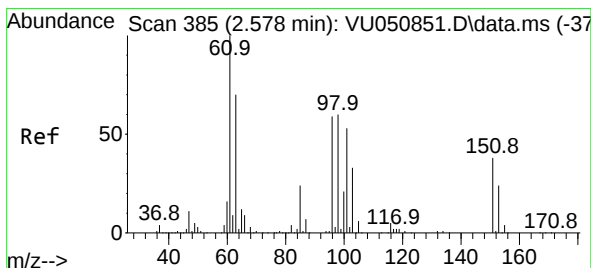
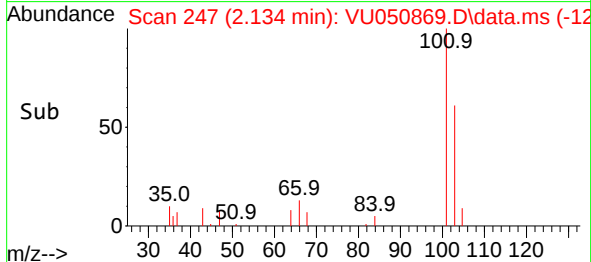
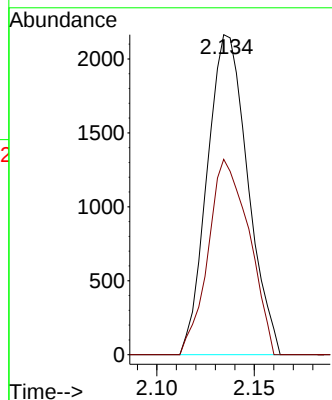
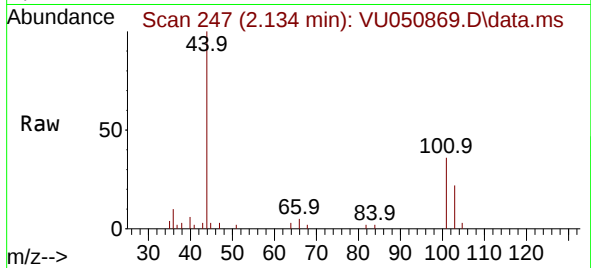




#9
 Trichlorofluoromethane
 Concen: 0.586 ug/L
 RT: 2.134 min Scan# 247
 Delta R.T. 0.000 min
 Lab File: VU050869.D
 Acq: 21 Sep 2022 06:33

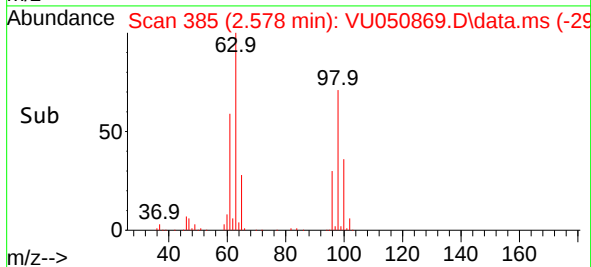
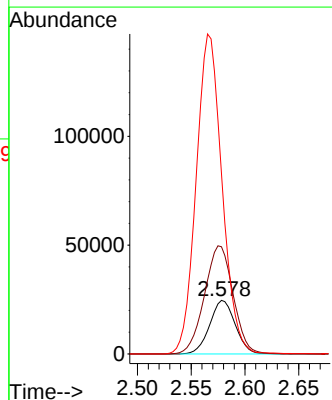
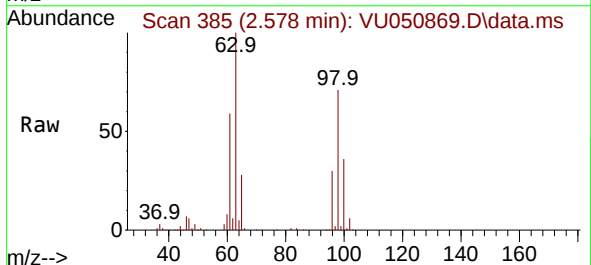
Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ12

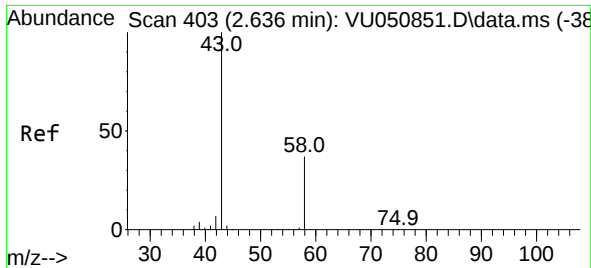
Tgt Ion:101 Resp: 3133
 Ion Ratio Lower Upper
 101 100
 103 61.5 50.9 76.3



#12
 1,1-Dichloroethene
 Concen: 12.671 ug/L
 RT: 2.578 min Scan# 385
 Delta R.T. 0.000 min
 Lab File: VU050869.D
 Acq: 21 Sep 2022 06:33

Tgt Ion: 96 Resp: 40750
 Ion Ratio Lower Upper
 96 100
 61 200.0 118.6 220.2
 63 336.4 90.4 168.0#





#13

Acetone

Concen: 3.013 ug/L

RT: 2.626 min Scan# 403

Delta R.T. -0.010 min

Lab File: VU050869.D

Acq: 21 Sep 2022 06:33

Instrument :

MSVOA_U

ClientSampleId :

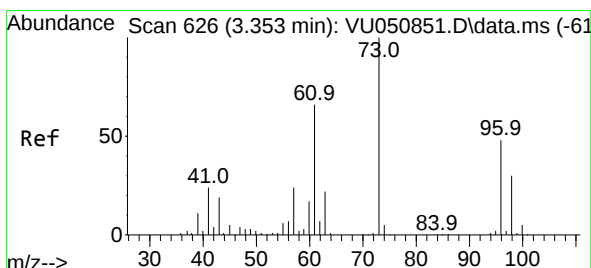
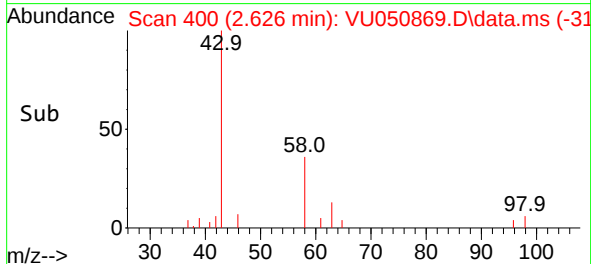
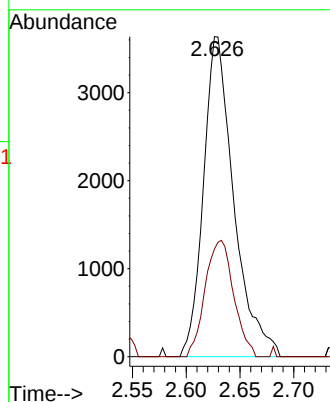
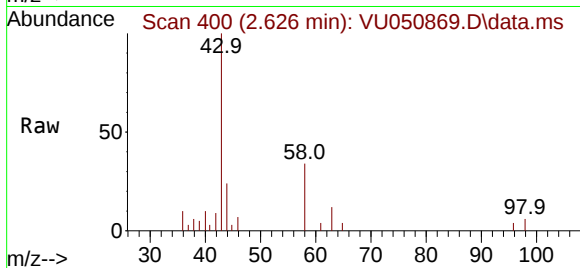
EXZ12

Tgt Ion: 43 Resp: 7139

Ion Ratio Lower Upper

43 100

58 34.1 0.0 71.4



#17

trans-1,2-Dichloroethene

Concen: 6.734 ug/L

RT: 3.353 min Scan# 626

Delta R.T. 0.000 min

Lab File: VU050869.D

Acq: 21 Sep 2022 06:33

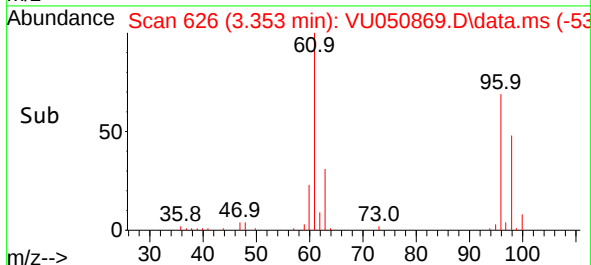
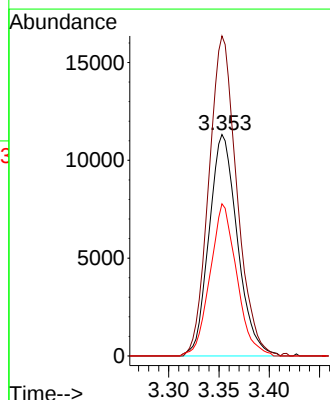
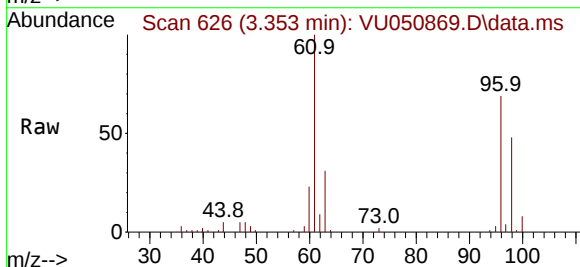
Tgt Ion: 96 Resp: 22197

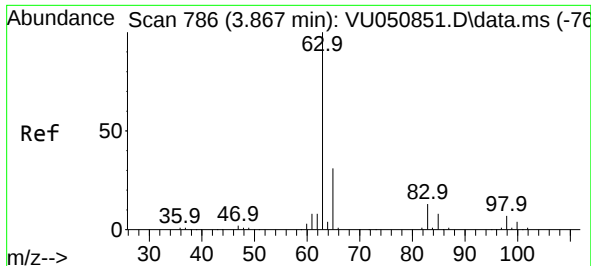
Ion Ratio Lower Upper

96 100

61 144.5 98.0 182.0

98 68.7 44.3 82.3





#19

1,1-Dichloroethane

Concen: 292.343 ug/L

RT: 3.867 min Scan# 786

Delta R.T. 0.000 min

Lab File: VU050869.D

Acq: 21 Sep 2022 06:33

Instrument :

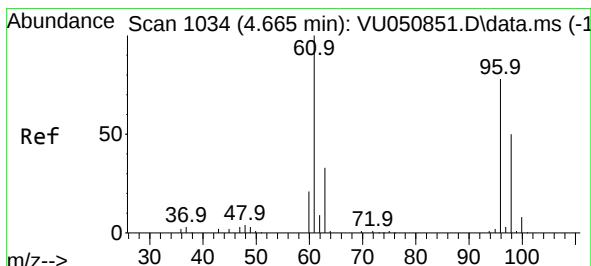
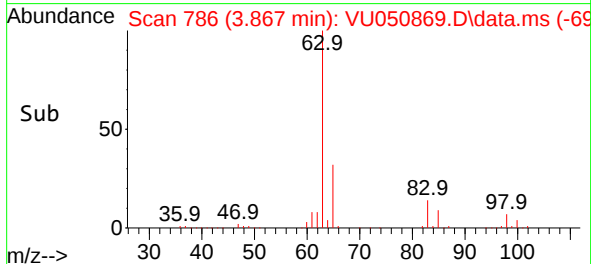
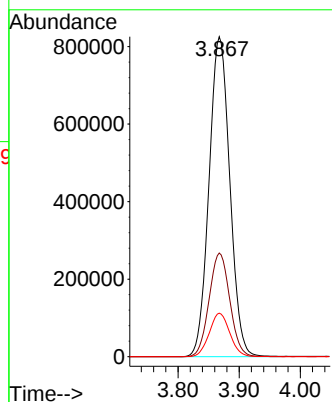
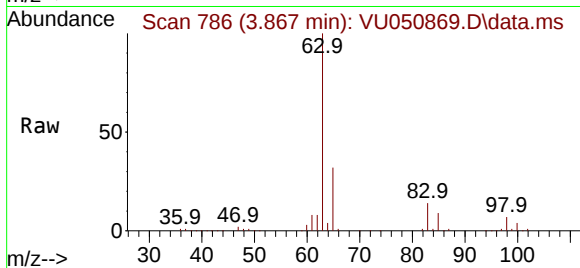
MSVOA_U

ClientSampleId :

EXZ12

Tgt Ion: 63 Resp: 1947074

Ion	Ratio	Lower	Upper
63	100		
65	32.4	21.5	39.9
83	13.6	9.3	17.3



#20

cis-1,2-Dichloroethene

Concen: 865.595 ug/L

RT: 4.665 min Scan# 1034

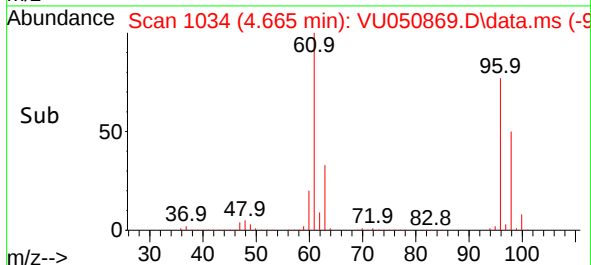
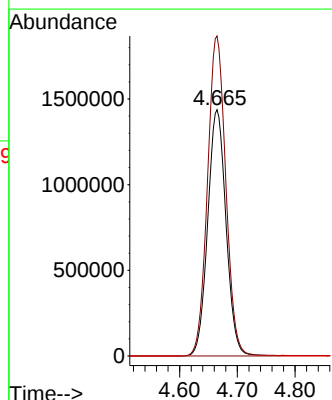
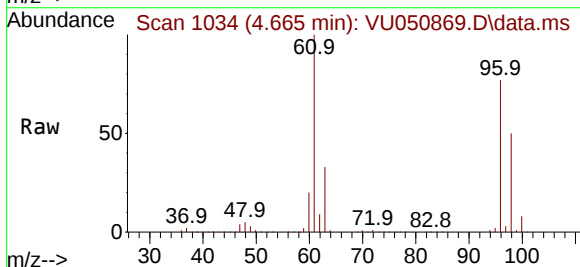
Delta R.T. 0.000 min

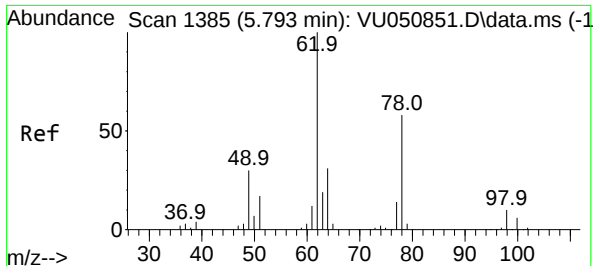
Lab File: VU050869.D

Acq: 21 Sep 2022 06:33

Tgt Ion: 96 Resp: 3163518

Ion	Ratio	Lower	Upper
96	100		
61	130.0	90.1	167.3
68	0.0	0.0	0.0





#27

1,2-Dichloroethane

Concen: 3.182 ug/L

RT: 5.793 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU050869.D

Acq: 21 Sep 2022 06:33

Instrument :

MSVOA_U

ClientSampleId :

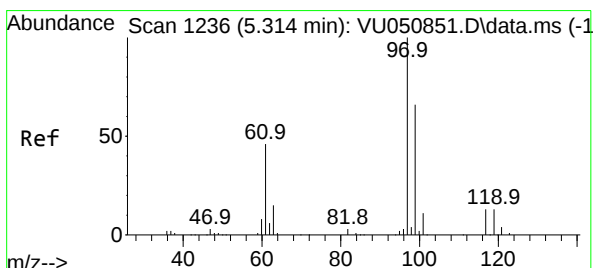
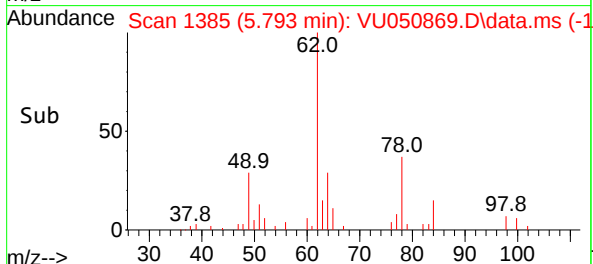
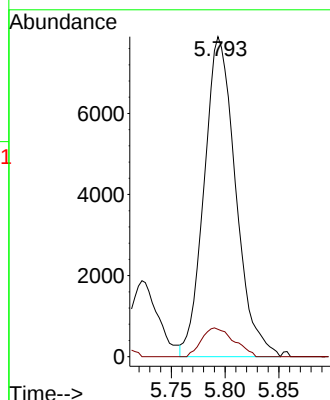
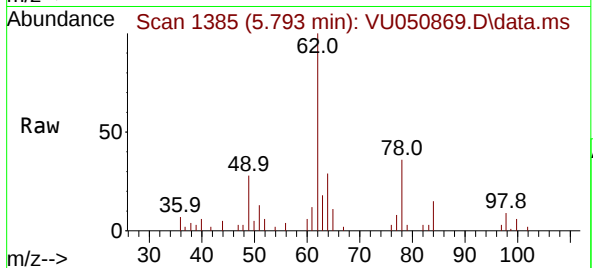
EXZ12

Tgt Ion: 62 Resp: 16051

Ion Ratio Lower Upper

62 100

98 9.8 7.4 11.0



#30

1,1,1-Trichloroethane

Concen: 340.716 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. 0.000 min

Lab File: VU050869.D

Acq: 21 Sep 2022 06:33

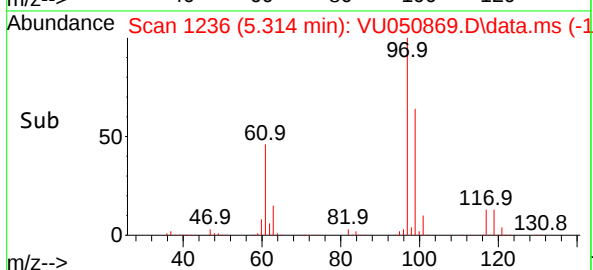
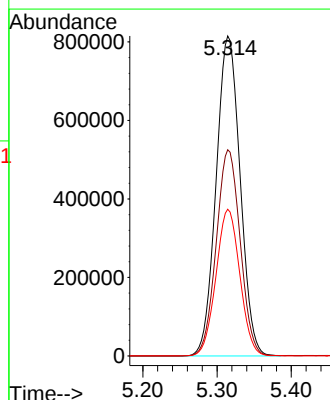
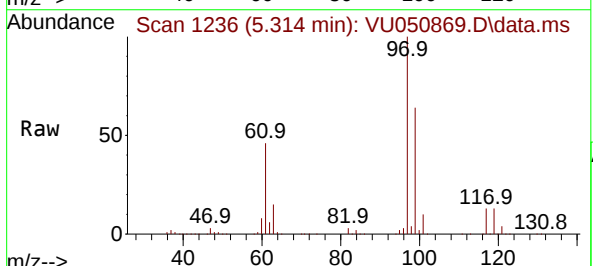
Tgt Ion: 97 Resp: 1833511

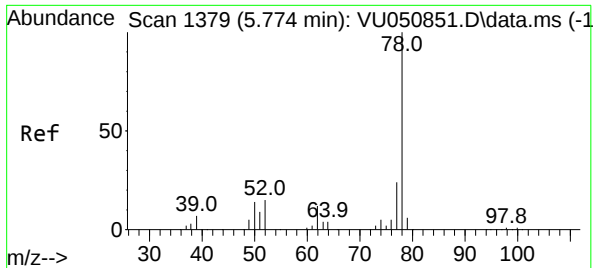
Ion Ratio Lower Upper

97 100

99 64.4 52.2 78.2

61 45.5 37.1 55.7





#33

Benzene

Concen: 0.927 ug/L

RT: 5.777 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU050869.D

Acq: 21 Sep 2022 06:33

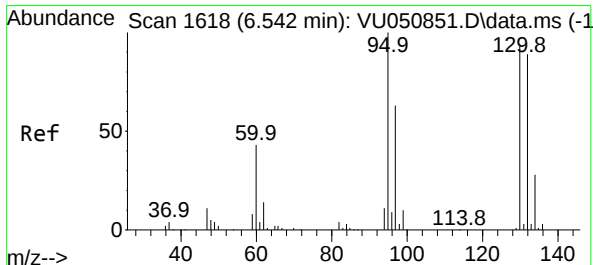
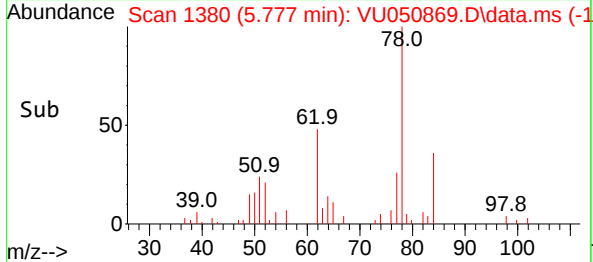
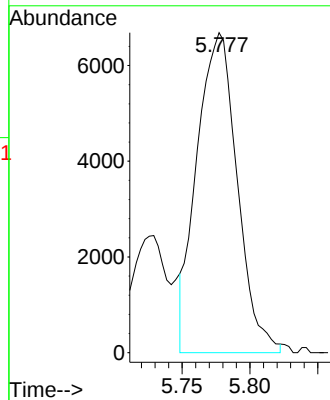
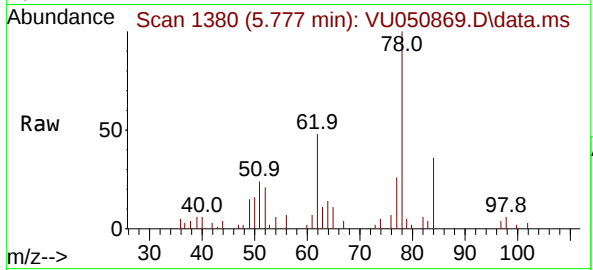
Instrument :

MSVOA_U

ClientSampleId :

EXZ12

Tgt Ion: 78 Resp: 13799



#34

Trichloroethene

Concen: 9.358 ug/L

RT: 6.539 min Scan# 1617

Delta R.T. -0.003 min

Lab File: VU050869.D

Acq: 21 Sep 2022 06:33

Tgt Ion: 95 Resp: 32357

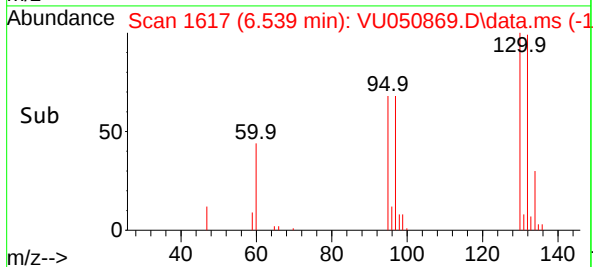
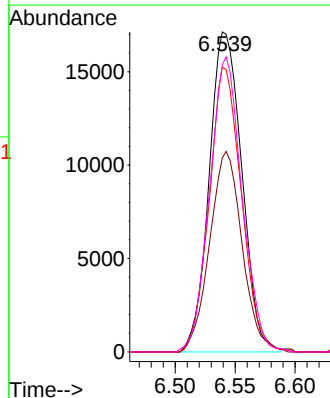
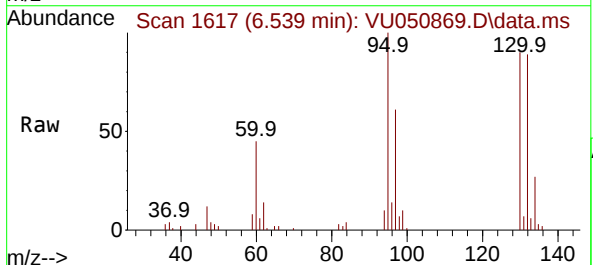
Ion Ratio Lower Upper

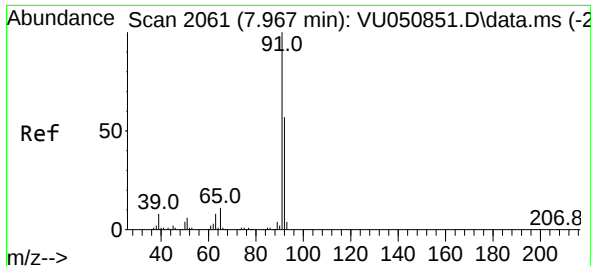
95 100

97 60.7 43.9 81.5

132 88.9 63.1 117.1

130 89.8 65.9 122.3





#42

Toluene

Concen: 9.829 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. 0.000 min

Lab File: VU050869.D

Acq: 21 Sep 2022 06:33

Instrument :

MSVOA_U

ClientSampleId :

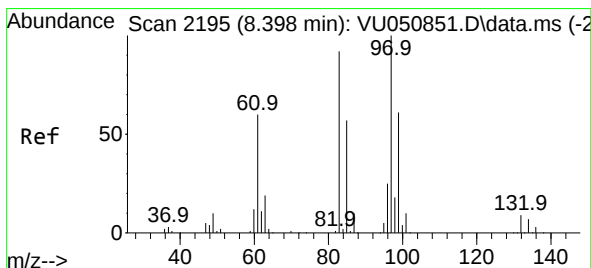
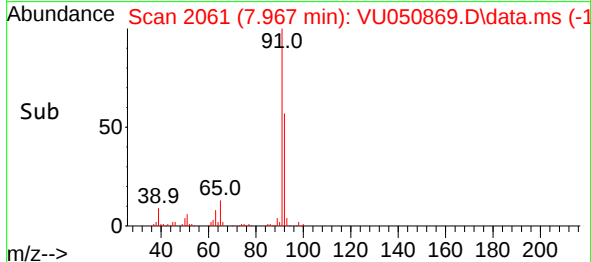
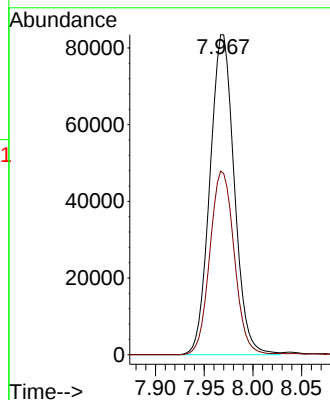
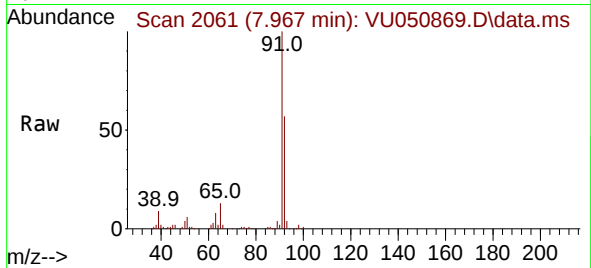
EXZ12

Tgt Ion: 91 Resp: 145255

Ion Ratio Lower Upper

91 100

92 57.3 39.1 72.5



#45

1,1,2-Trichloroethane

Concen: 0.715 ug/L

RT: 8.398 min Scan# 2195

Delta R.T. 0.000 min

Lab File: VU050869.D

Acq: 21 Sep 2022 06:33

Tgt Ion: 97 Resp: 2685

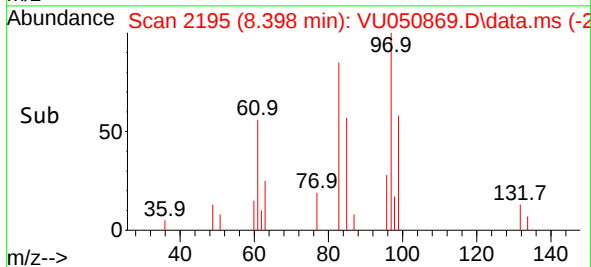
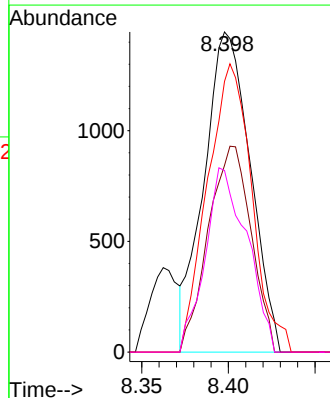
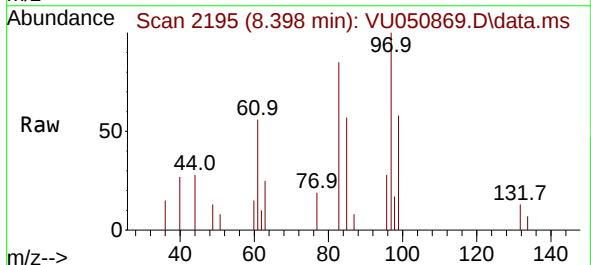
Ion Ratio Lower Upper

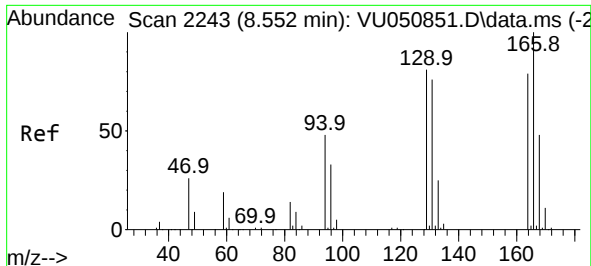
97 100

99 58.3 43.8 81.4

83 84.6 62.6 116.3

85 56.7 39.6 73.6

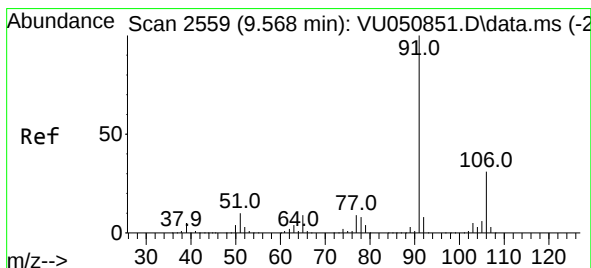
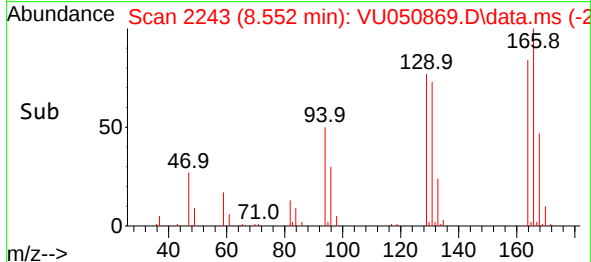
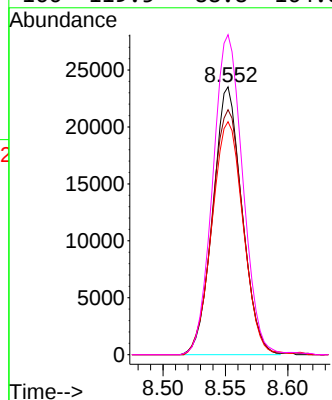
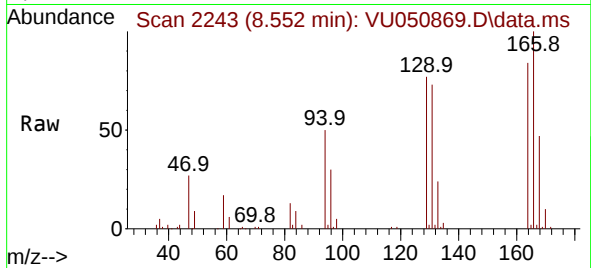




#46
Tetrachloroethene
Concen: 15.392 ug/L
RT: 8.552 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU050869.D
Acq: 21 Sep 2022 06:33

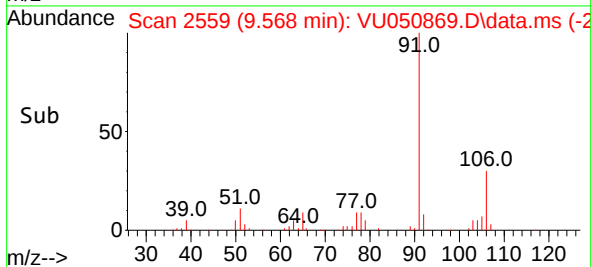
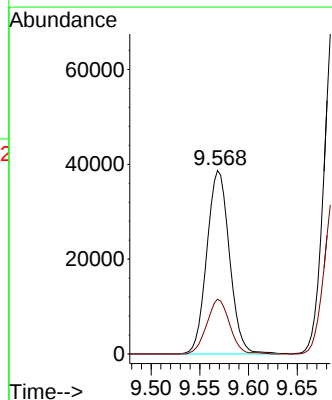
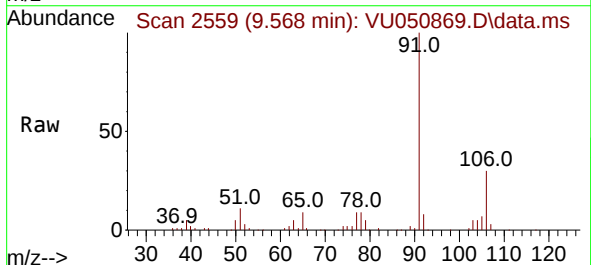
Instrument :
MSVOA_U
ClientSampleId :
EXZ12

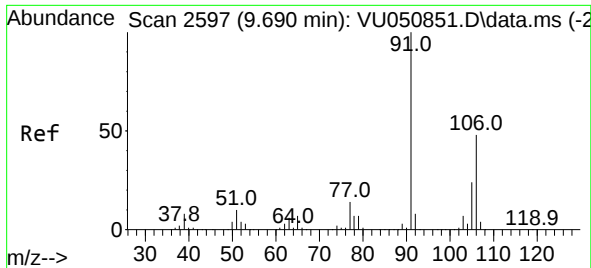
Tgt Ion:164 Resp: 38248
Ion Ratio Lower Upper
164 100
129 91.5 68.5 127.3
131 87.0 66.1 122.7
166 119.5 88.8 164.8



#52
Ethylbenzene
Concen: 4.248 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. 0.000 min
Lab File: VU050869.D
Acq: 21 Sep 2022 06:33

Tgt Ion: 91 Resp: 62620
Ion Ratio Lower Upper
91 100
106 29.8 21.0 39.0

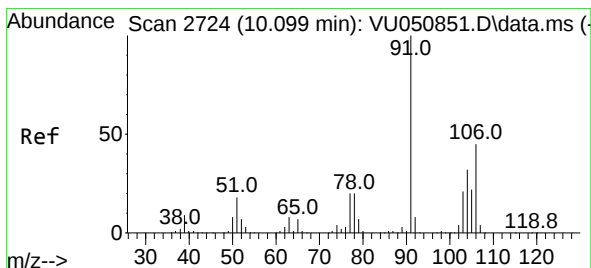
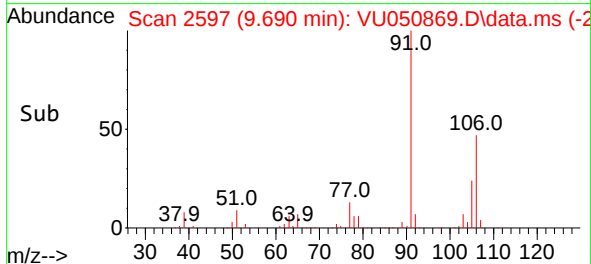
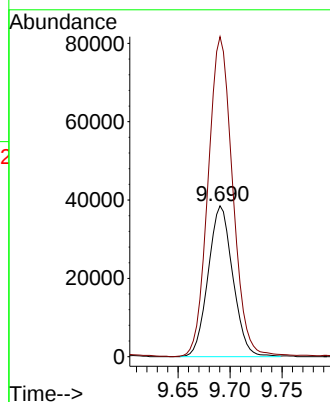
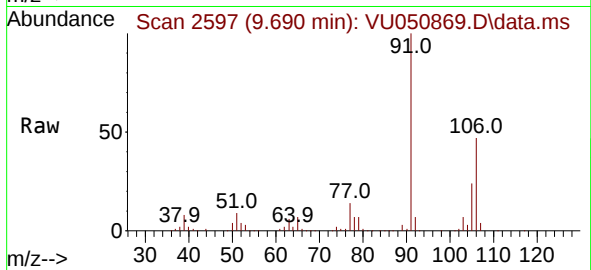




#53
m,p-Xylene
Concen: 11.586 ug/L
RT: 9.690 min Scan# 2597
Delta R.T. 0.000 min
Lab File: VU050869.D
Acq: 21 Sep 2022 06:33

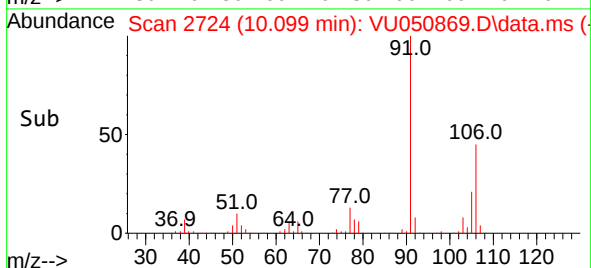
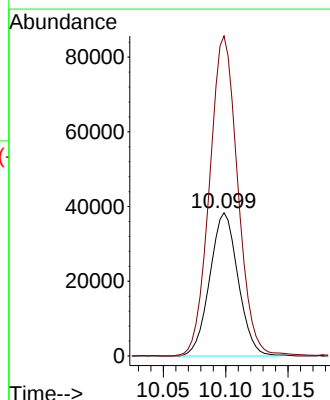
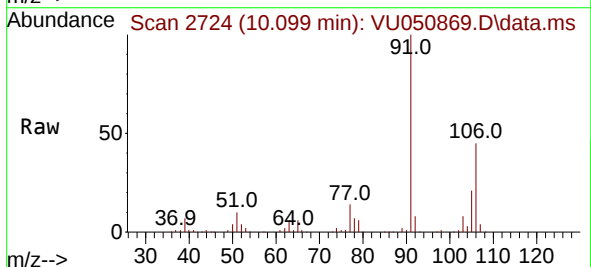
Instrument :
MSVOA_U
ClientSampleId :
EXZ12

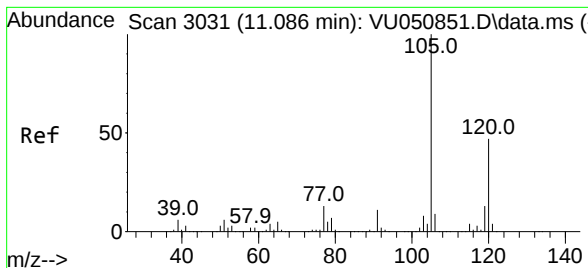
Tgt Ion:106 Resp: 63504
Ion Ratio Lower Upper
106 100
91 212.0 144.0 267.4



#54
o-Xylene
Concen: 11.106 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. 0.000 min
Lab File: VU050869.D
Acq: 21 Sep 2022 06:33

Tgt Ion:106 Resp: 60651
Ion Ratio Lower Upper
106 100
91 223.4 154.6 287.0





#62

1,3,5-Trimethylbenzene

Concen: 8.592 ug/L

RT: 11.086 min Scan# 3031

Delta R.T. 0.000 min

Lab File: VU050869.D

Acq: 21 Sep 2022 06:33

Instrument :

MSVOA_U

ClientSampleId :

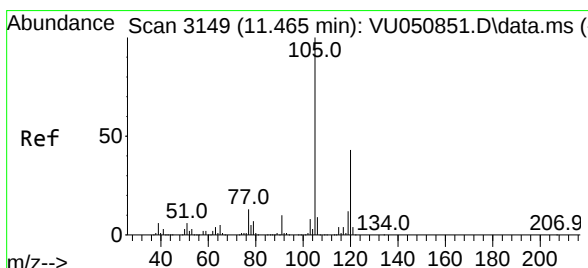
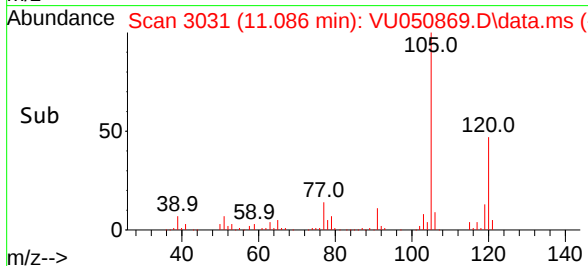
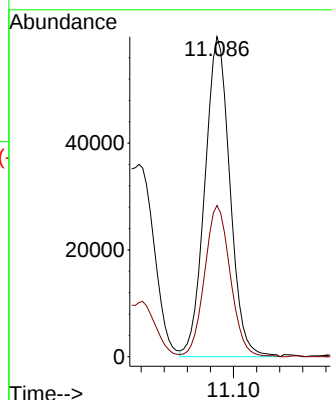
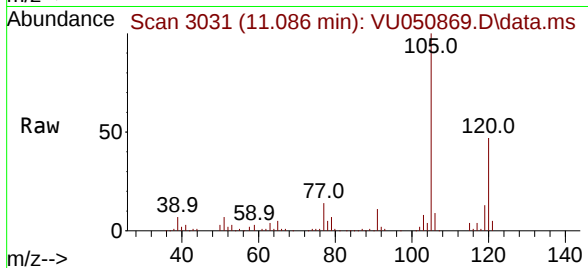
EXZ12

Tgt Ion:105 Resp: 90416

Ion Ratio Lower Upper

105 100

120 47.4 37.9 56.9



#63

1,2,4-Trimethylbenzene

Concen: 20.203 ug/L

RT: 11.465 min Scan# 3149

Delta R.T. 0.000 min

Lab File: VU050869.D

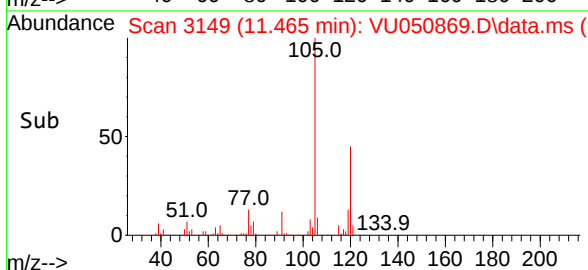
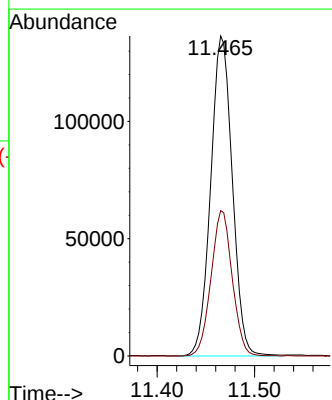
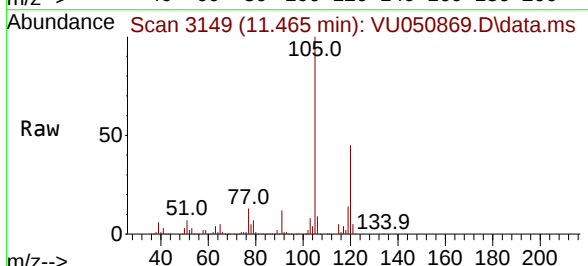
Acq: 21 Sep 2022 06:33

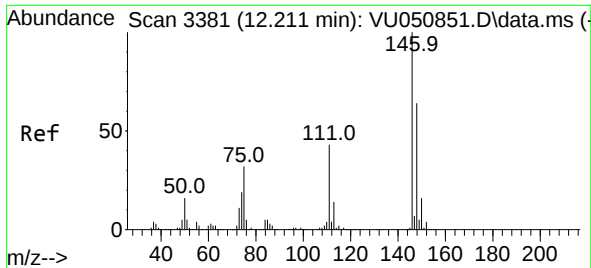
Tgt Ion:105 Resp: 210537

Ion Ratio Lower Upper

105 100

120 44.4 34.9 52.3





#67

1,2-Dichlorobenzene

Concen: 1.074 ug/L

RT: 12.211 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU050869.D

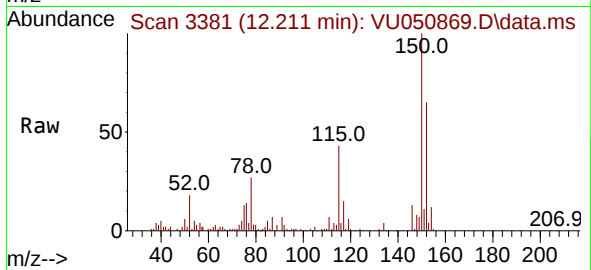
Acq: 21 Sep 2022 06:33

Instrument :

MSVOA_U

ClientSampleId :

EXZ12



Tgt Ion:146 Resp: 6657

Ion Ratio Lower Upper

146 100

111 51.6 35.2 52.8

148 59.2 52.0 78.0

