

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U092022\
 Data File : VU050855.D
 Acq On : 21 Sep 2022 01:04
 Operator : JC/MD
 Sample : N4650-08
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ05

Quant Time: Sep 21 04:41:58 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	6.250	114	421464	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	409849	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	180493	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	187275	42.888	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.780%
7) Chloroethane-d5	1.909	69	149256	47.994	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.980%
11) 1,1-Dichloroethene-d2	2.565	63	231457	34.065	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	68.120%
21) 2-Butanone-d5	4.623	46	305971	108.535	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.540%
24) Chloroform-d	5.060	84	316650	46.273	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.540%
26) 1,2-Dichloroethane-d4	5.700	65	203348	48.218	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.440%
32) Benzene-d6	5.726	84	637845	47.249	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.500%
36) 1,2-Dichloropropane-d6	6.690	67	216811	47.581	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.160%
41) Toluene-d8	7.896	98	512288	43.413	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.820%
43) trans-1,3-Dichloroprop...	8.179	79	84216	42.484	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.960%
47) 2-Hexanone-d5	8.632	63	186477	99.305	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.300%
56) 1,1,2,2-Tetrachloroeth...	10.754	84	327225	47.102	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.200%
66) 1,2-Dichlorobenzene-d4	12.192	152	190125	50.310	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.620%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.604	62	116516	23.458	ug/L	95
8) Chloroethane	1.928	64	33738	12.268	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.562	101	2323	0.674	ug/L #	21
12) 1,1-Dichloroethene	2.578	96	8553	2.640	ug/L #	1
13) Acetone	2.633	43	6652	2.787	ug/L	100
17) trans-1,2-Dichloroethene	3.353	96	3633	1.094	ug/L	98
19) 1,1-Dichloroethane	3.867	63	471299	70.235	ug/L	97
20) cis-1,2-Dichloroethene	4.665	96	168365	45.724	ug/L	97
27) 1,2-Dichloroethane	5.793	62	2849	0.561	ug/L #	85
30) 1,1,1-Trichloroethane	5.314	97	281914	51.703	ug/L	99
31) Carbon tetrachloride	5.314	117	36898	8.146	ug/L	97
34) Trichloroethene	6.539	95	86680	24.740	ug/L	95
35) Methylcyclohexane	6.761	83	8475	1.501	ug/L	93
39) cis-1,3-Dichloropropene	7.565	75	4872	0.882	ug/L #	65
42) Toluene	7.970	91	22025	1.471	ug/L	96
44) trans-1,3-Dichloropropene	8.179	75	3778	0.719	ug/L	99
45) 1,1,2-Trichloroethane	8.369	97	2146	0.564	ug/L #	22
46) Tetrachloroethene	8.552	164	95648	37.990	ug/L	99
52) Ethylbenzene	9.571	91	42637	2.854	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Wed Sep 21 04:30:12 2022
Response via : Initial Calibration

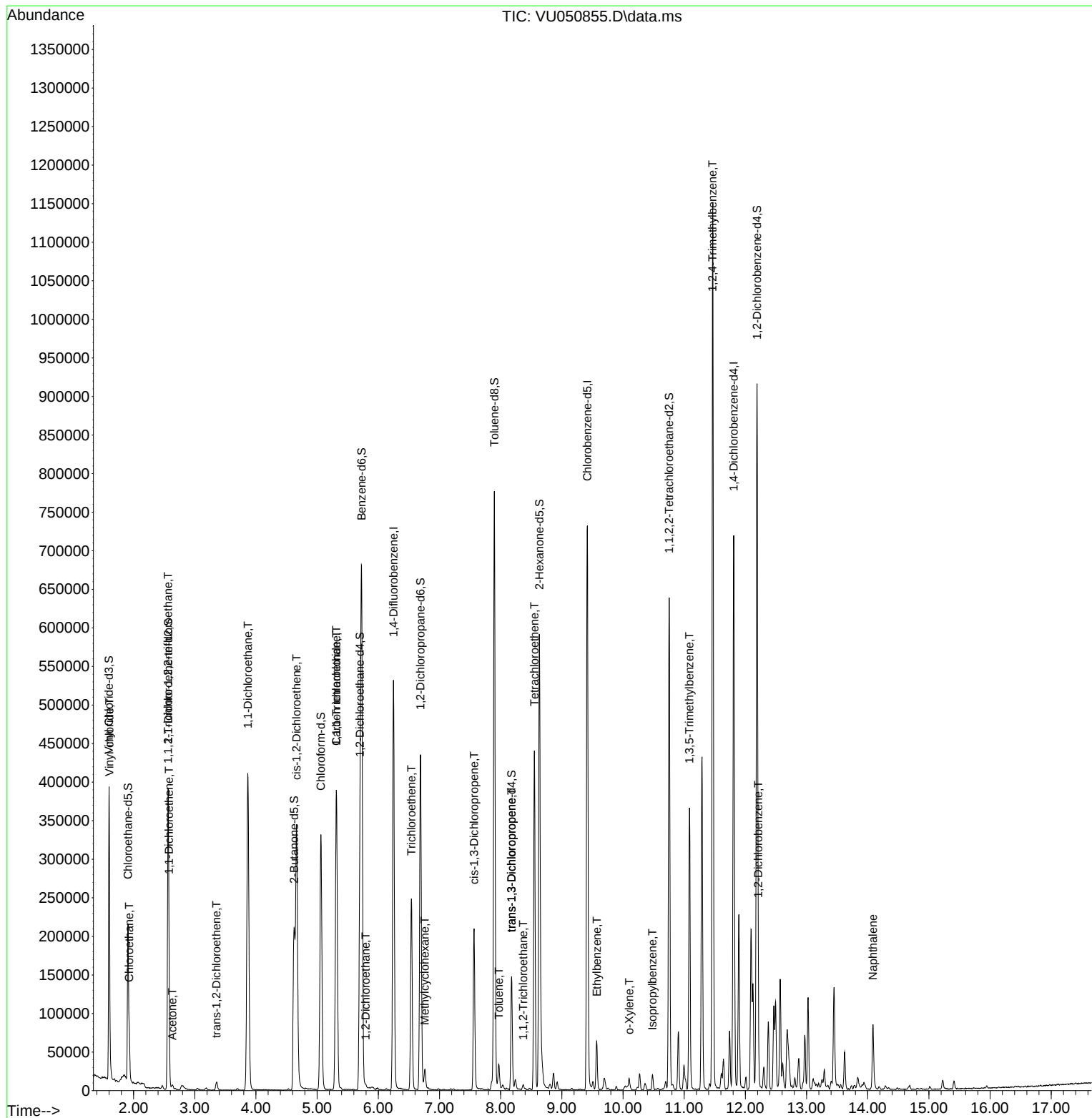
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.102	106	3858	0.697	ug/L	88
61) Isopropylbenzene	10.481	105	12637	0.980	ug/L	94
62) 1,3,5-Trimethylbenzene	11.086	105	187334	17.667	ug/L	98
63) 1,2,4-Trimethylbenzene	11.465	105	616240	58.685	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	5140	0.823	ug/L	92
71) Naphthalene	14.086	128	70246	5.412	ug/L	99

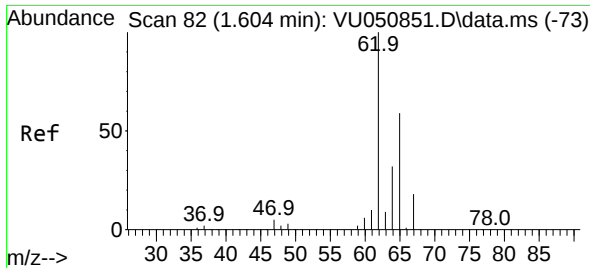
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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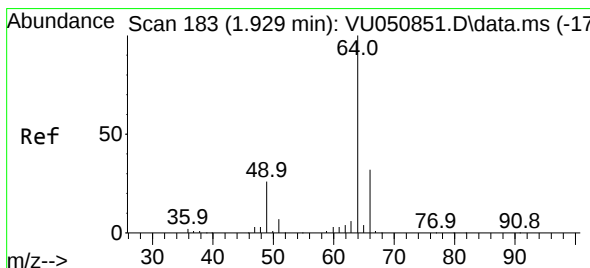
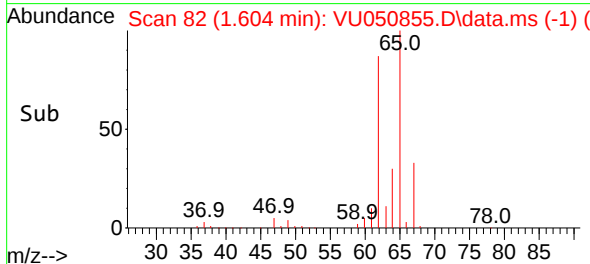
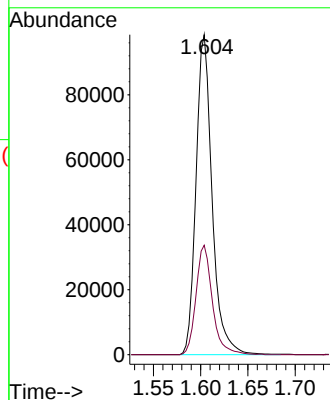
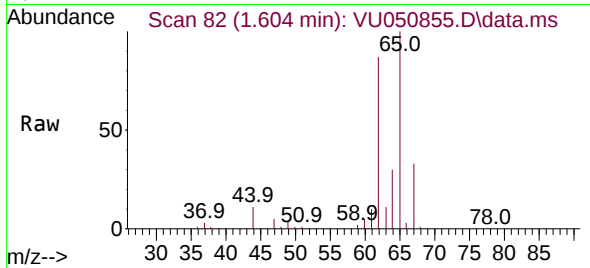




#5
 Vinyl chloride
 Concen: 23.458 ug/L
 RT: 1.604 min Scan# 82
 Delta R.T. -0.000 min
 Lab File: VU050855.D
 Acq: 21 Sep 2022 01:04

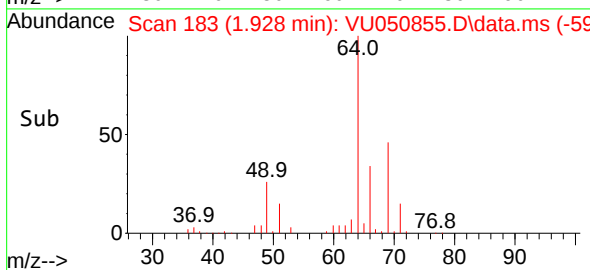
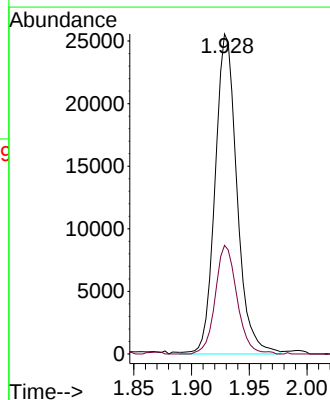
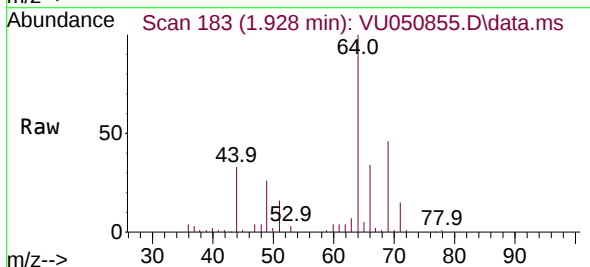
Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ05

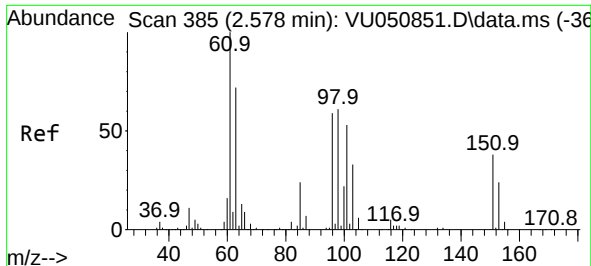
Tgt Ion: 62 Resp: 116516
 Ion Ratio Lower Upper
 62 100
 64 34.2 22.2 41.2



#8
 Chloroethane
 Concen: 12.268 ug/L
 RT: 1.928 min Scan# 183
 Delta R.T. -0.000 min
 Lab File: VU050855.D
 Acq: 21 Sep 2022 01:04

Tgt Ion: 64 Resp: 33738
 Ion Ratio Lower Upper
 64 100
 66 34.0 22.9 42.5





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.674 ug/L

RT: 2.562 min Scan# 3

Delta R.T. -0.016 min

Lab File: VU050855.D

Acq: 21 Sep 2022 01:04

Instrument :

MSVOA_U

ClientSampleId :

EXZ05

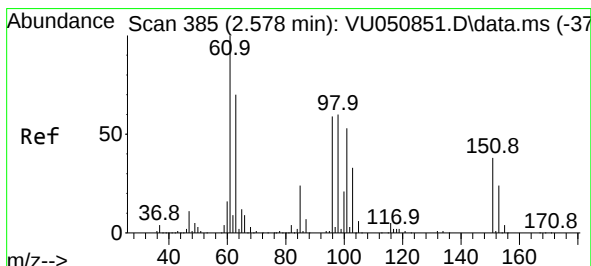
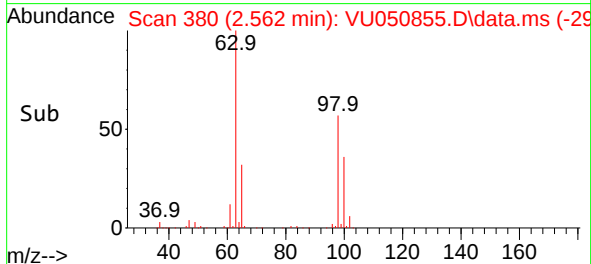
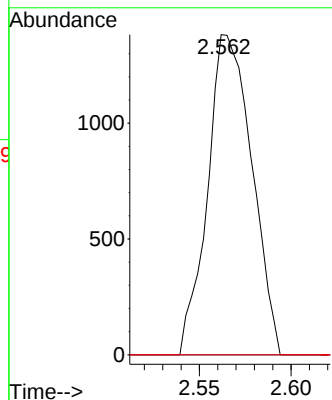
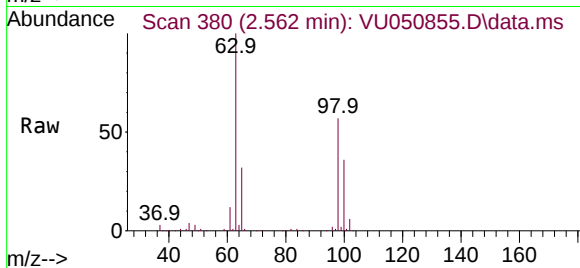
Tgt Ion:101 Resp: 2323

Ion Ratio Lower Upper

101 100

85 0.0 35.1 52.7#

151 0.0 56.6 84.8#



#12

1,1-Dichloroethene

Concen: 2.640 ug/L

RT: 2.578 min Scan# 385

Delta R.T. -0.000 min

Lab File: VU050855.D

Acq: 21 Sep 2022 01:04

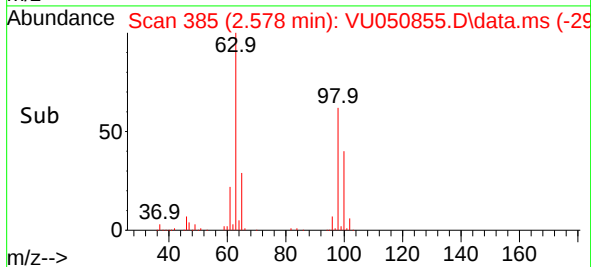
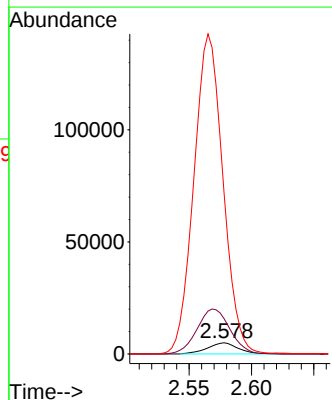
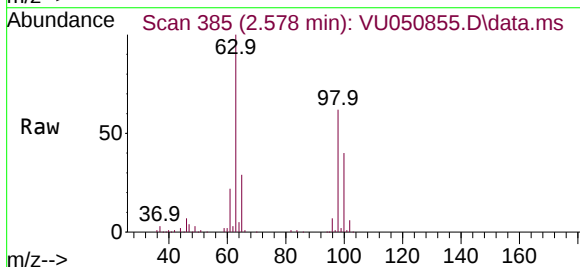
Tgt Ion: 96 Resp: 8553

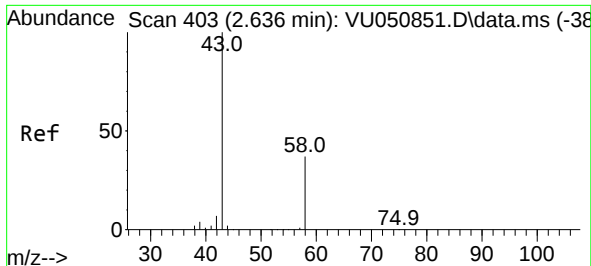
Ion Ratio Lower Upper

96 100

61 318.2 118.6 220.2#

63 1448.3 90.4 168.0#





#13

Acetone

Concen: 2.787 ug/L

RT: 2.633 min Scan# 403

Delta R.T. -0.003 min

Lab File: VU050855.D

Acq: 21 Sep 2022 01:04

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ClientSampleId :

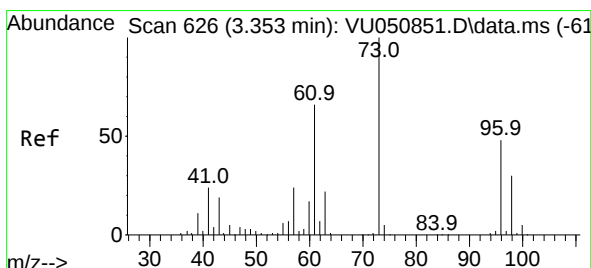
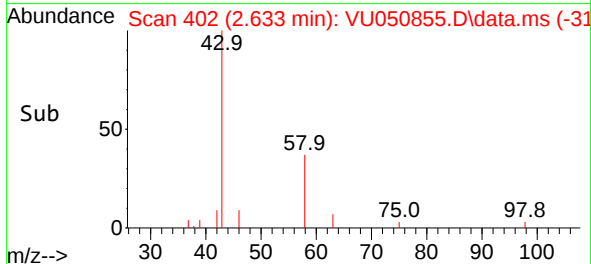
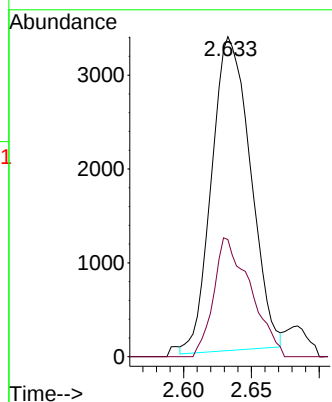
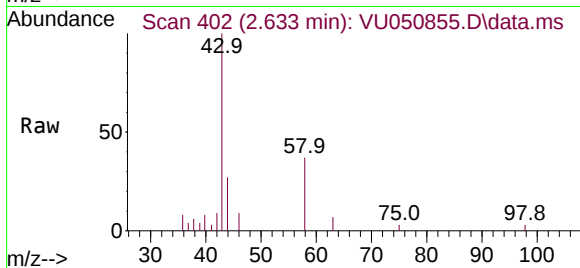
EXZ05

Tgt Ion: 43 Resp: 6652

Ion Ratio Lower Upper

43 100

58 36.0 0.0 71.4



#17

trans-1,2-Dichloroethene

Concen: 1.094 ug/L

RT: 3.353 min Scan# 626

Delta R.T. -0.000 min

Lab File: VU050855.D

Acq: 21 Sep 2022 01:04

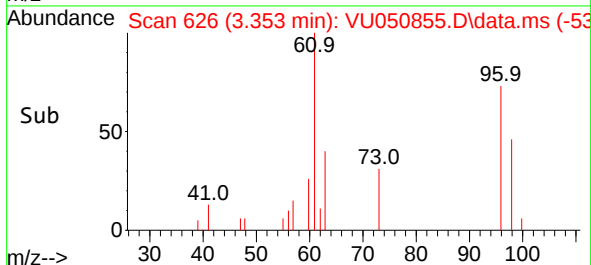
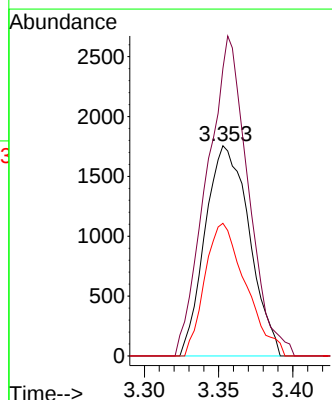
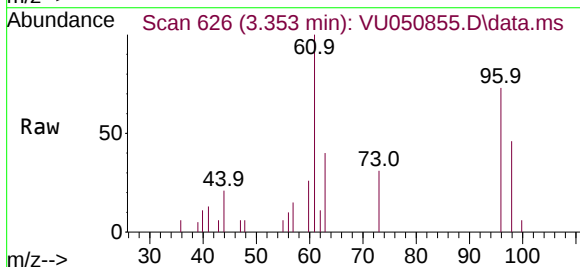
Tgt Ion: 96 Resp: 3633

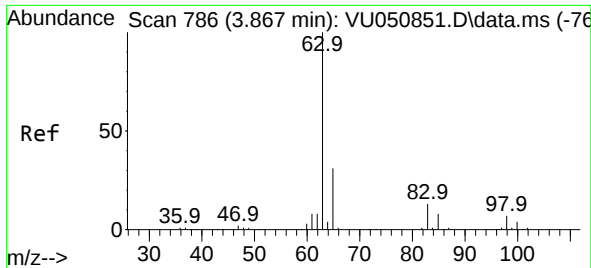
Ion Ratio Lower Upper

96 100

61 136.8 98.0 182.0

98 63.1 44.3 82.3

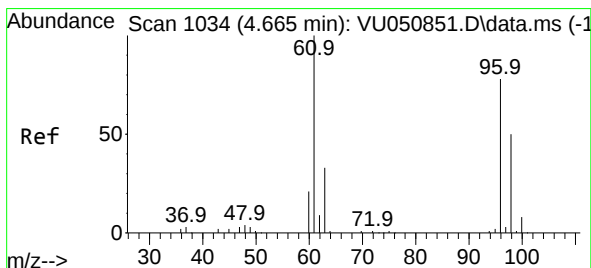
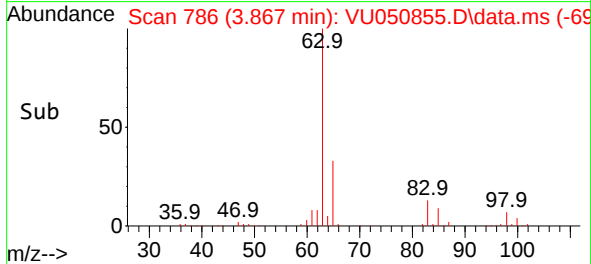
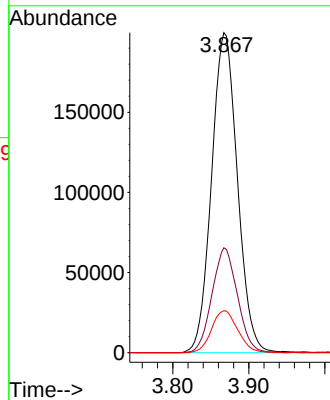
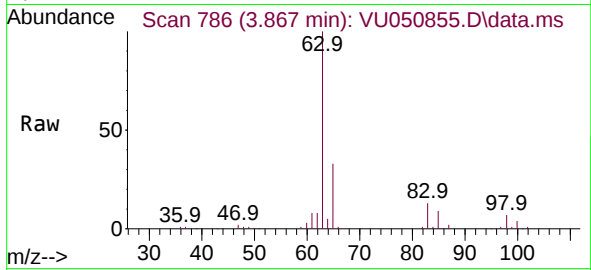




#19
1,1-Dichloroethane
Concen: 70.235 ug/L
RT: 3.867 min Scan# 786
Delta R.T. -0.000 min
Lab File: VU050855.D
Acq: 21 Sep 2022 01:04

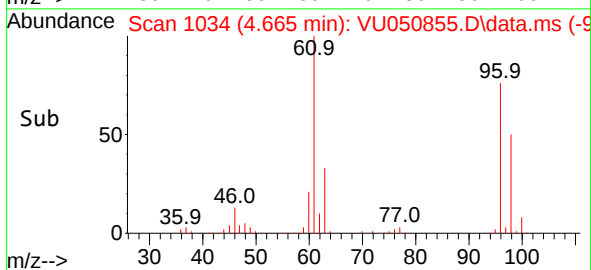
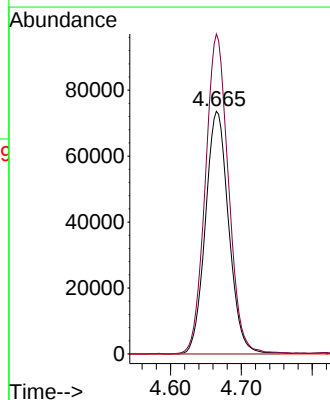
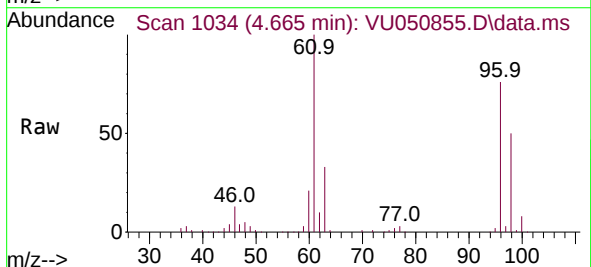
Instrument :
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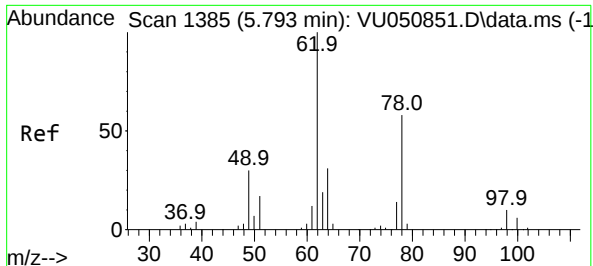
Tgt Ion: 63 Resp: 471299
Ion Ratio Lower Upper
63 100
65 32.8 21.5 39.9
83 13.1 9.3 17.3



#20
cis-1,2-Dichloroethene
Concen: 45.724 ug/L
RT: 4.665 min Scan# 1034
Delta R.T. -0.000 min
Lab File: VU050855.D
Acq: 21 Sep 2022 01:04

Tgt Ion: 96 Resp: 168365
Ion Ratio Lower Upper
96 100
61 131.9 90.1 167.3
68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 0.561 ug/L

RT: 5.793 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU050855.D

Acq: 21 Sep 2022 01:04

Instrument :

MSVOA_U

ClientSampleId :

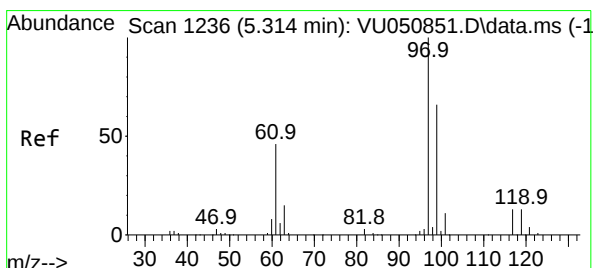
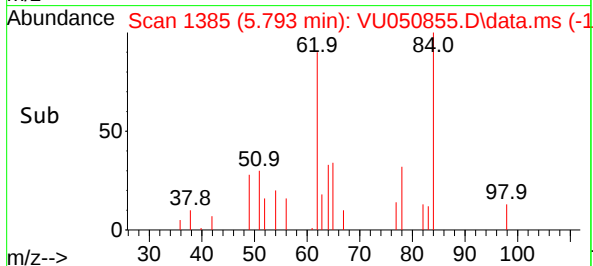
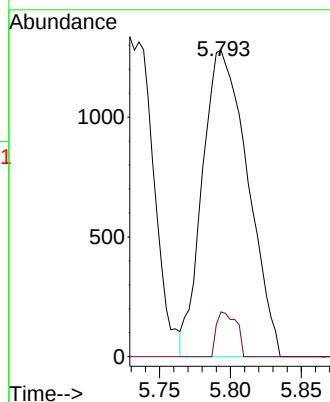
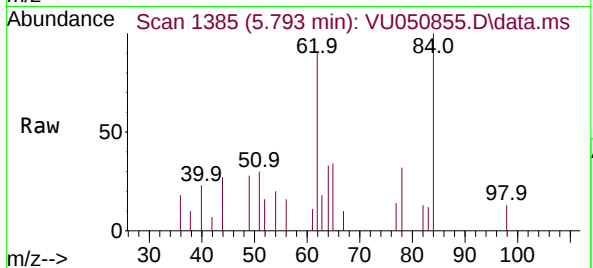
EXZ05

Tgt Ion: 62 Resp: 2849

Ion Ratio Lower Upper

62 100

98 14.6 7.4 11.0#



#30

1,1,1-Trichloroethane

Concen: 51.703 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. -0.000 min

Lab File: VU050855.D

Acq: 21 Sep 2022 01:04

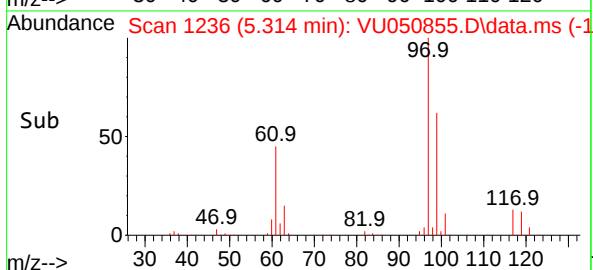
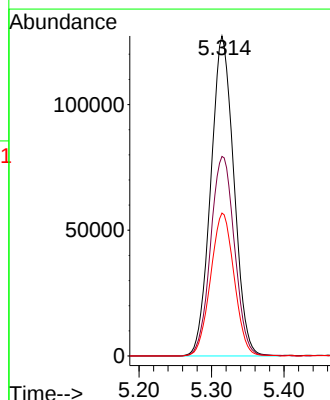
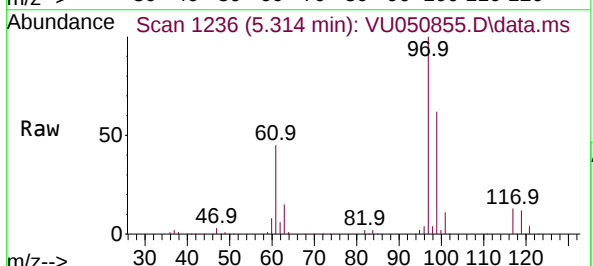
Tgt Ion: 97 Resp: 281914

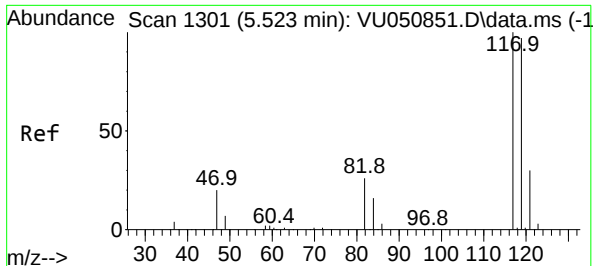
Ion Ratio Lower Upper

97 100

99 64.6 52.2 78.2

61 45.5 37.1 55.7

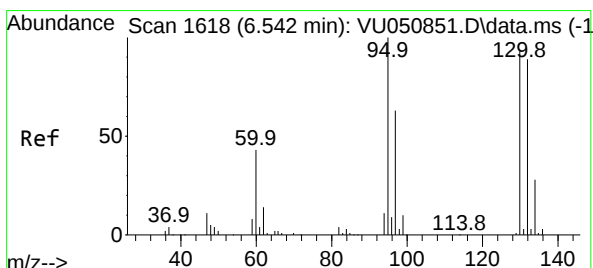
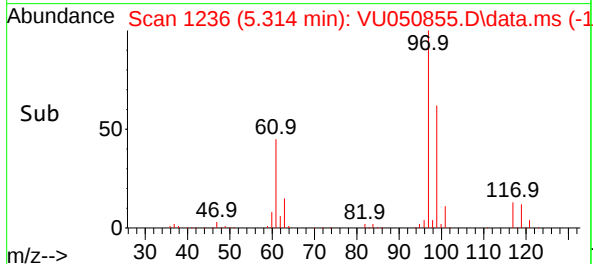
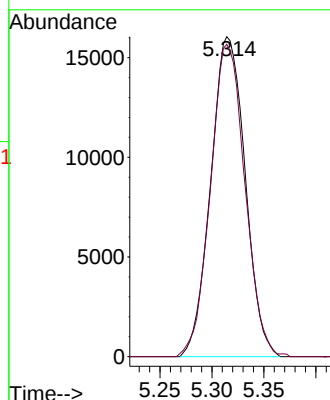
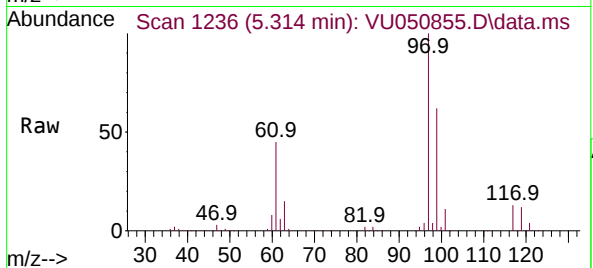




#31
Carbon tetrachloride
Concen: 8.146 ug/L
RT: 5.314 min Scan# 11
Delta R.T. -0.209 min
Lab File: VU050855.D
Acq: 21 Sep 2022 01:04

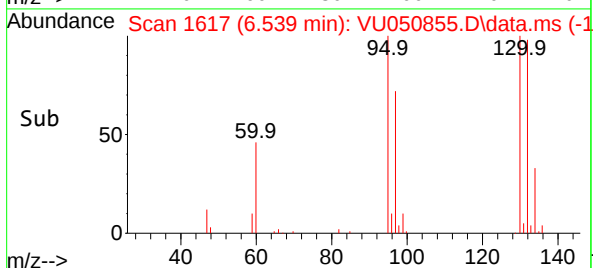
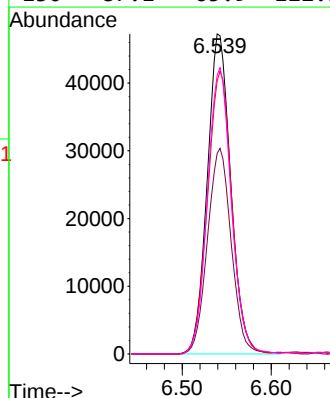
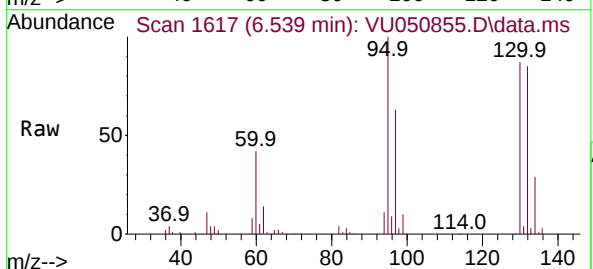
Instrument :
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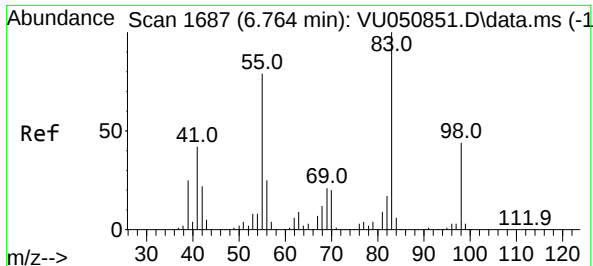
Tgt Ion:117 Resp: 36898
Ion Ratio Lower Upper
117 100
119 97.6 76.0 114.0



#34
Trichloroethene
Concen: 24.740 ug/L
RT: 6.539 min Scan# 1617
Delta R.T. -0.003 min
Lab File: VU050855.D
Acq: 21 Sep 2022 01:04

Tgt Ion: 95 Resp: 86680
Ion Ratio Lower Upper
95 100
97 62.7 43.9 81.5
132 85.3 63.1 117.1
130 87.1 65.9 122.3





#35

Methylcyclohexane

Concen: 1.501 ug/L

RT: 6.761 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU050855.D

Acq: 21 Sep 2022 01:04

Instrument :

MSVOA_U

ClientSampleId :

EXZ05

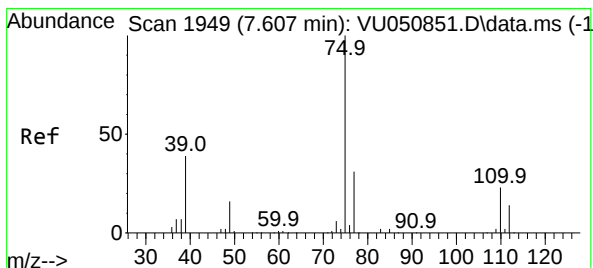
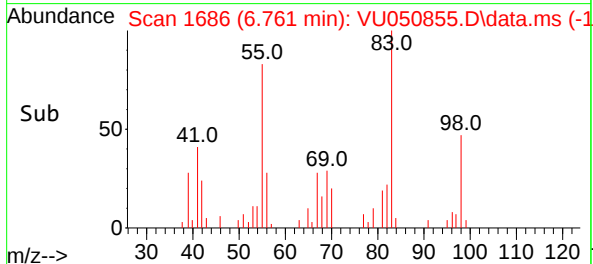
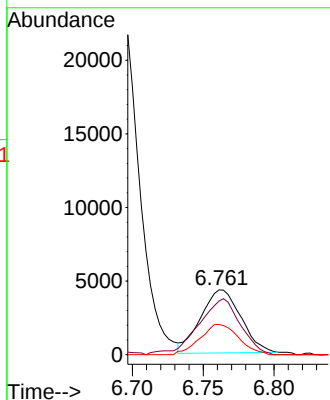
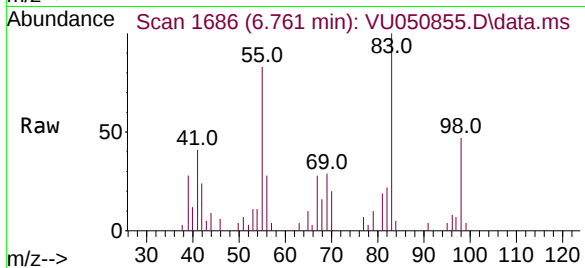
Tgt Ion: 83 Resp: 8475

Ion Ratio Lower Upper

83 100

55 89.3 64.7 97.1

98 45.9 35.2 52.8



#39

cis-1,3-Dichloropropene

Concen: 0.882 ug/L

RT: 7.565 min Scan# 1936

Delta R.T. -0.042 min

Lab File: VU050855.D

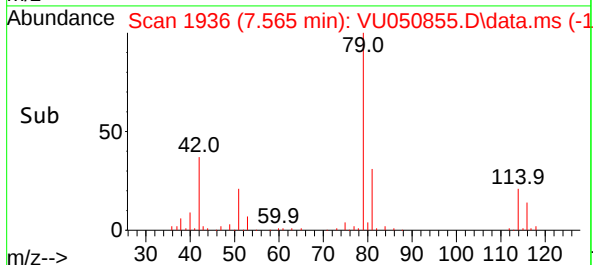
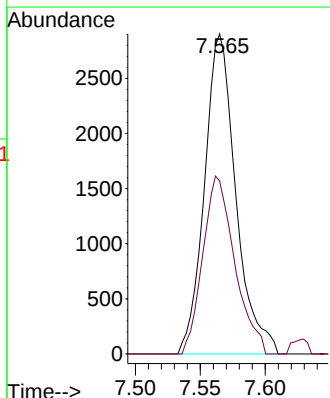
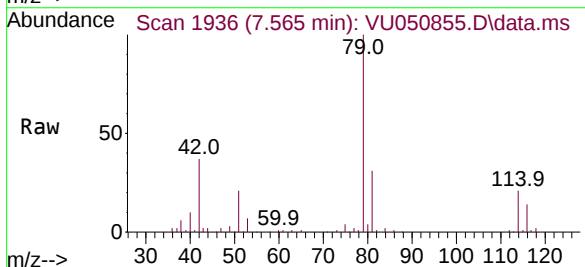
Acq: 21 Sep 2022 01:04

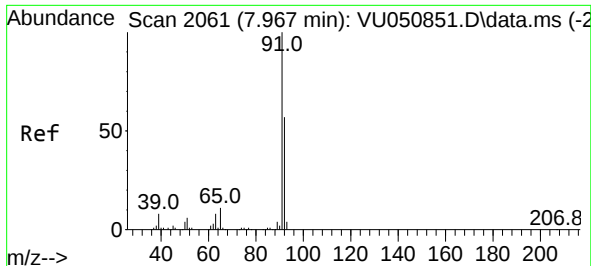
Tgt Ion: 75 Resp: 4872

Ion Ratio Lower Upper

75 100

77 52.1 22.8 42.4#





#42

Toluene

Concen: 1.471 ug/L

RT: 7.970 min Scan# 2061

Delta R.T. 0.003 min

Lab File: VU050855.D

Acq: 21 Sep 2022 01:04

Instrument :

MSVOA_U

ClientSampleId :

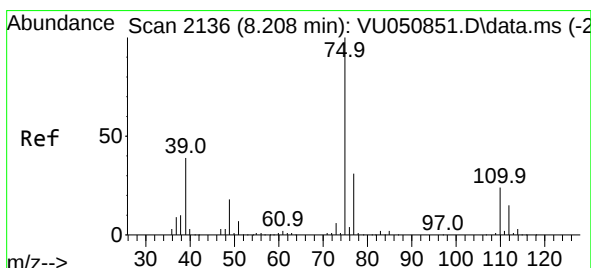
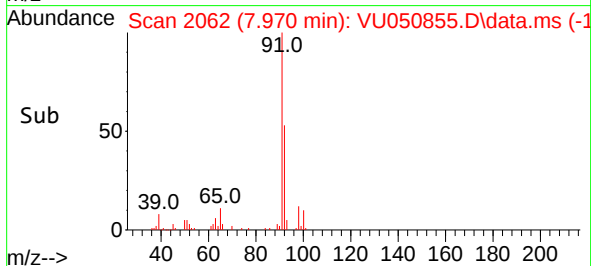
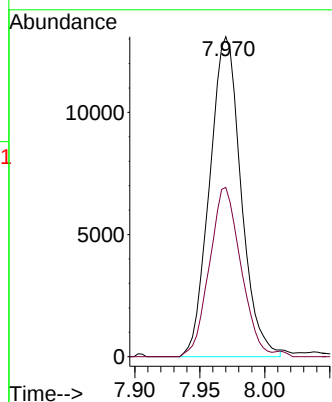
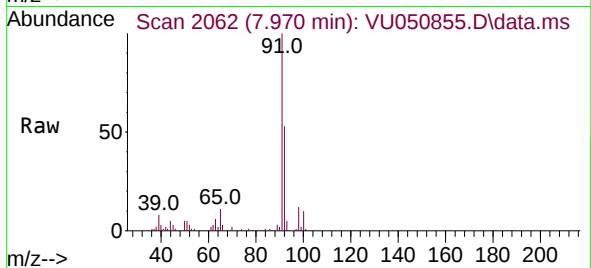
EXZ05

Tgt Ion: 91 Resp: 22025

Ion Ratio Lower Upper

91 100

92 52.9 39.1 72.5



#44

trans-1,3-Dichloropropene

Concen: 0.719 ug/L

RT: 8.179 min Scan# 2127

Delta R.T. -0.029 min

Lab File: VU050855.D

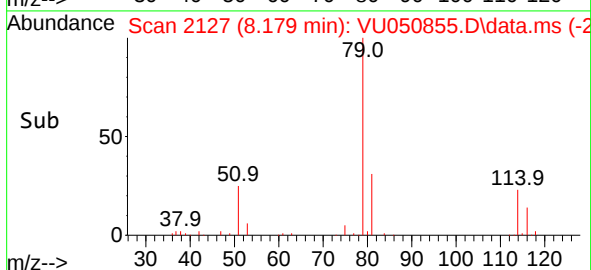
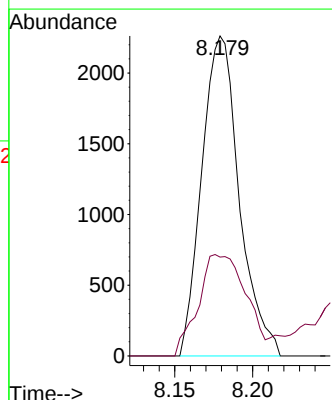
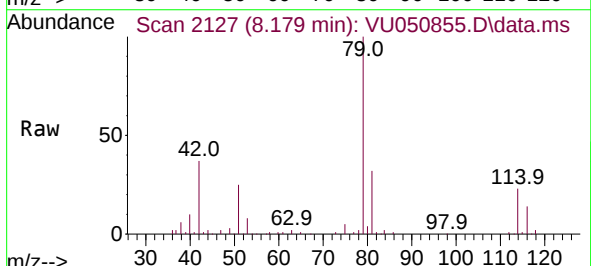
Acq: 21 Sep 2022 01:04

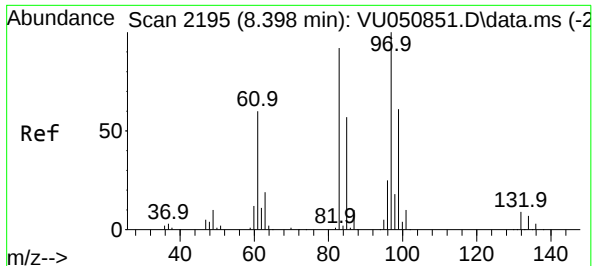
Tgt Ion: 75 Resp: 3778

Ion Ratio Lower Upper

75 100

77 30.9 21.9 40.7

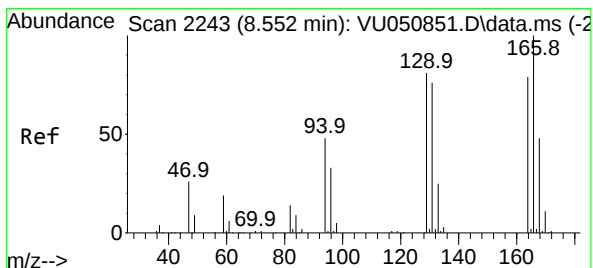
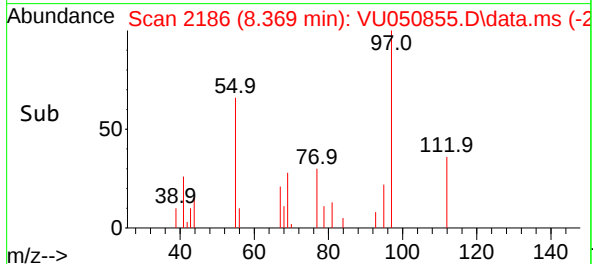
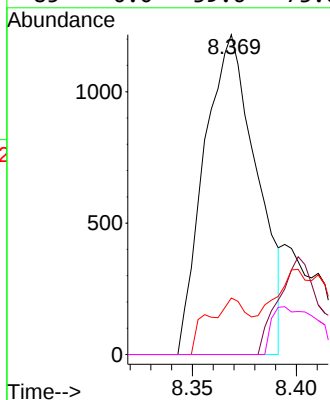
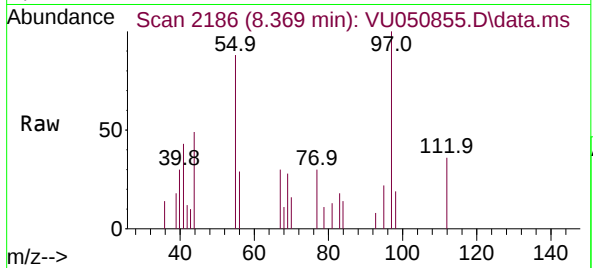




#45
1,1,2-Trichloroethane
Concen: 0.564 ug/L
RT: 8.369 min Scan# 2195
Delta R.T. -0.029 min
Lab File: VU050855.D
Acq: 21 Sep 2022 01:04

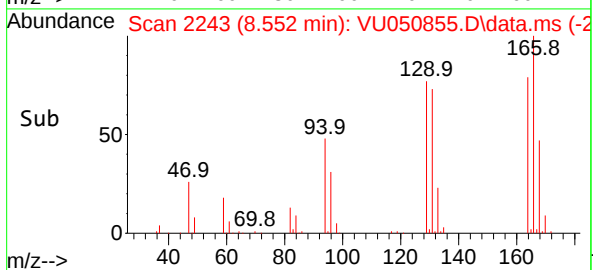
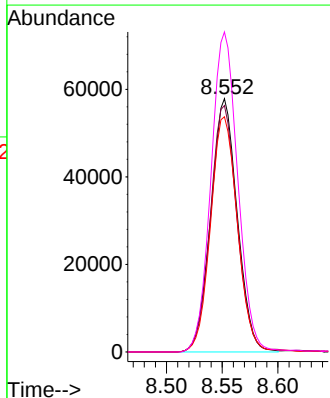
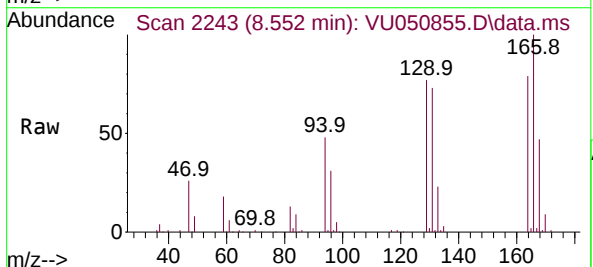
Instrument :
MSVOA_U
ClientSampleId :
EXZ05

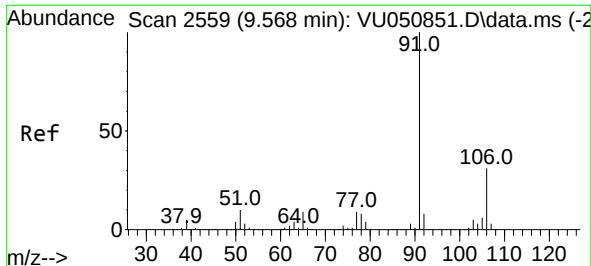
Tgt Ion: 97	Resp:	2146
Ion Ratio	Lower	Upper
97	100	
99	0.0	43.8
83	17.7	62.6
85	0.0	39.6



#46
Tetrachloroethene
Concen: 37.990 ug/L
RT: 8.552 min Scan# 2243
Delta R.T. -0.000 min
Lab File: VU050855.D
Acq: 21 Sep 2022 01:04

Tgt Ion: 164	Resp:	95648
Ion Ratio	Lower	Upper
164	100	
129	97.3	68.5
131	92.9	66.1
166	126.4	88.8

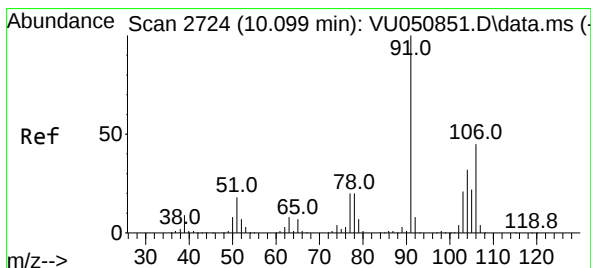
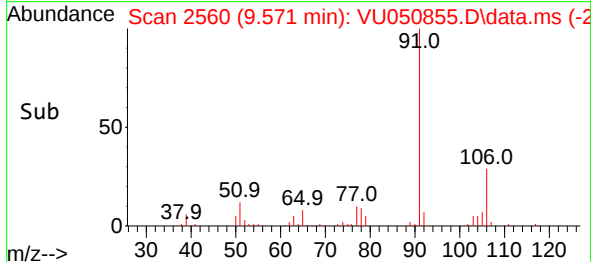
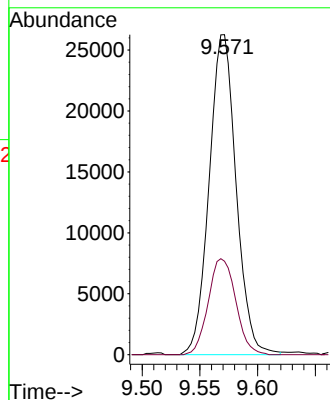
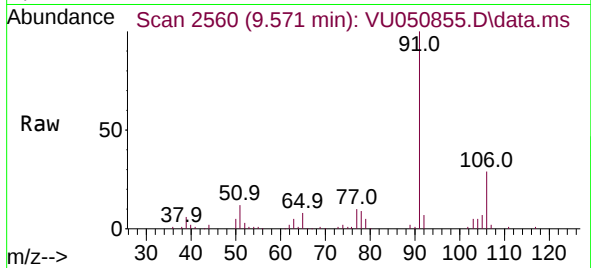




#52
Ethylbenzene
Concen: 2.854 ug/L
RT: 9.571 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU050855.D
Acq: 21 Sep 2022 01:04

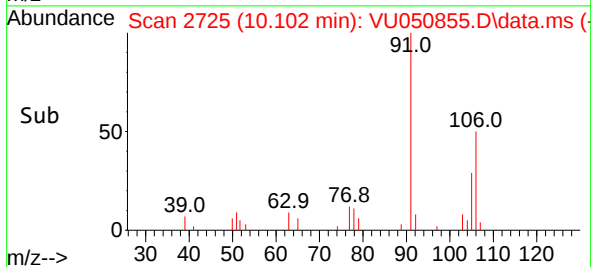
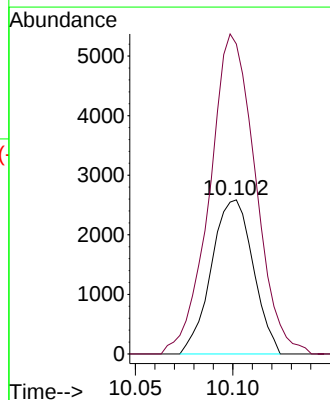
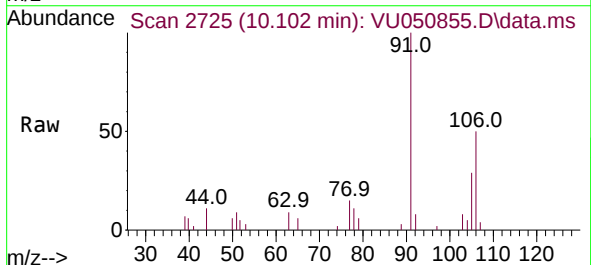
Instrument :
MSVOA_U
ClientSampleId :
EXZ05

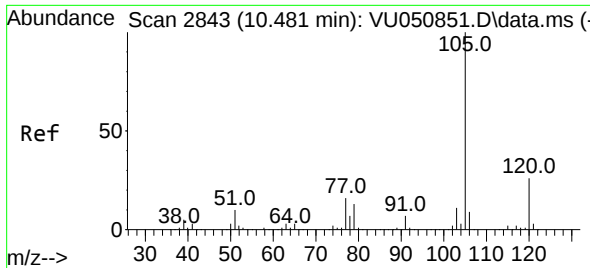
Tgt Ion: 91 Resp: 42637
Ion Ratio Lower Upper
91 100
106 29.2 21.0 39.0



#54
o-Xylene
Concen: 0.697 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. 0.003 min
Lab File: VU050855.D
Acq: 21 Sep 2022 01:04

Tgt Ion: 106 Resp: 3858
Ion Ratio Lower Upper
106 100
91 201.0 154.6 287.0

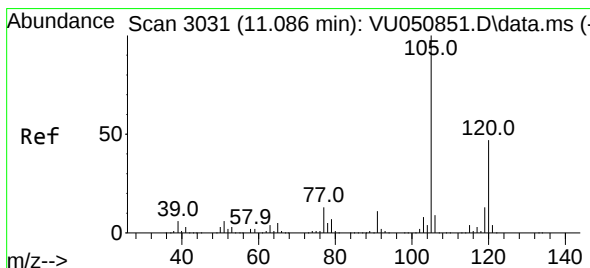
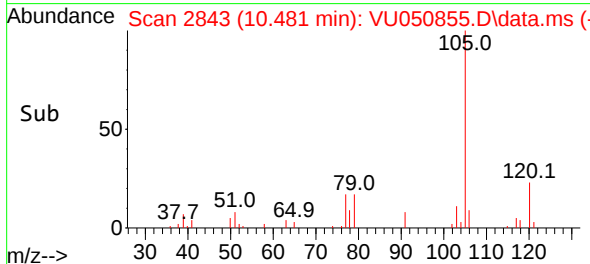
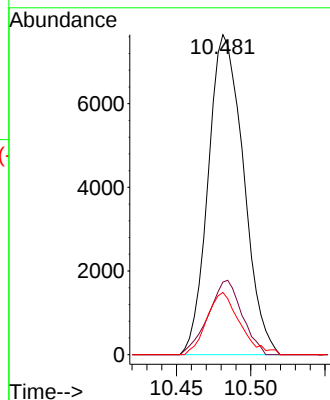
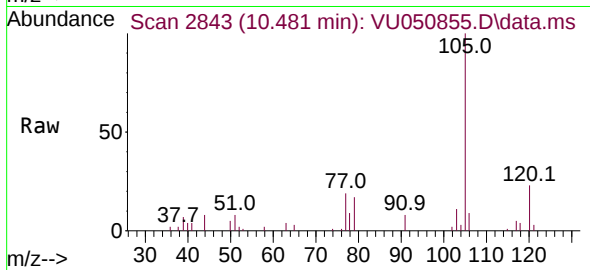




#61
Isopropylbenzene
Concen: 0.980 ug/L
RT: 10.481 min Scan# 2843
Delta R.T. -0.000 min
Lab File: VU050855.D
Acq: 21 Sep 2022 01:04

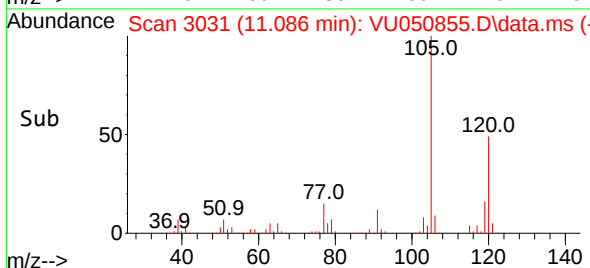
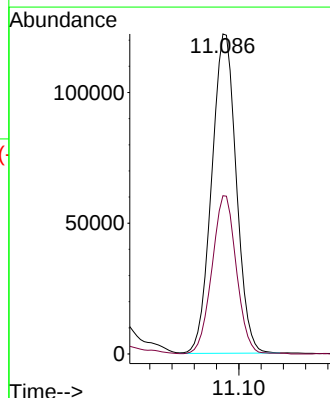
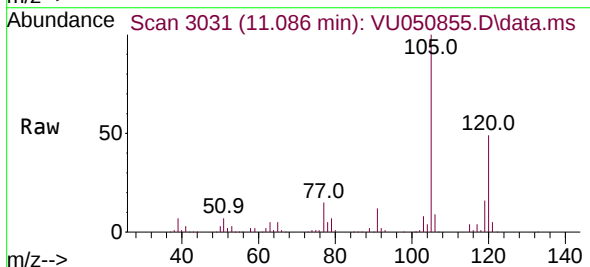
Instrument :
MSVOA_U
ClientSampleId :
EXZ05

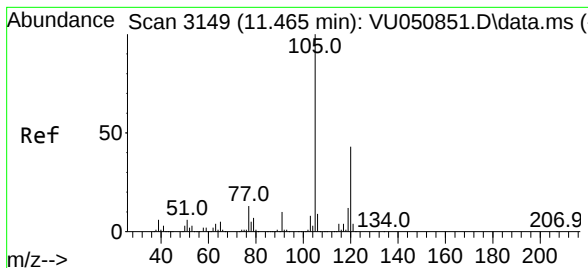
Tgt Ion:	105	Resp:	12637
Ion	Ratio	Lower	Upper
105	100		
120	22.2	20.5	30.7
77	17.9	12.9	19.3



#62
1,3,5-Trimethylbenzene
Concen: 17.667 ug/L
RT: 11.086 min Scan# 3031
Delta R.T. -0.000 min
Lab File: VU050855.D
Acq: 21 Sep 2022 01:04

Tgt Ion:	105	Resp:	187334
Ion	Ratio	Lower	Upper
105	100		
120	48.8	37.9	56.9

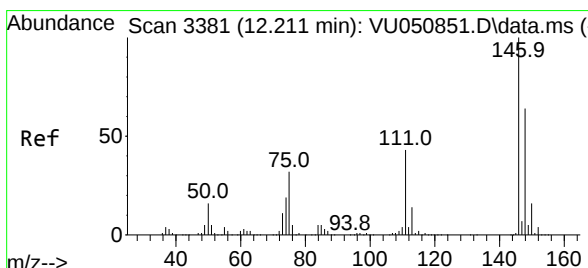
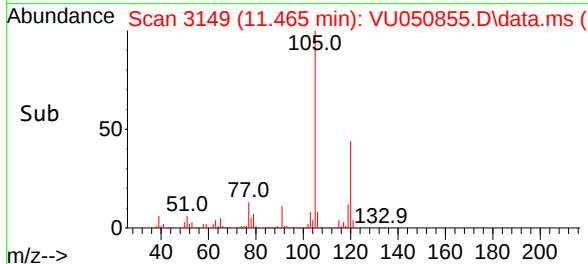
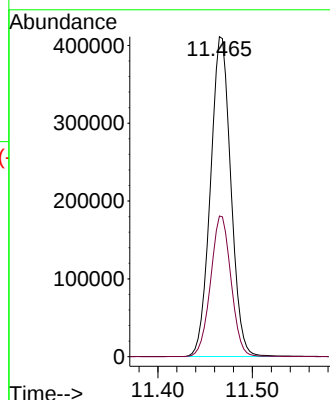
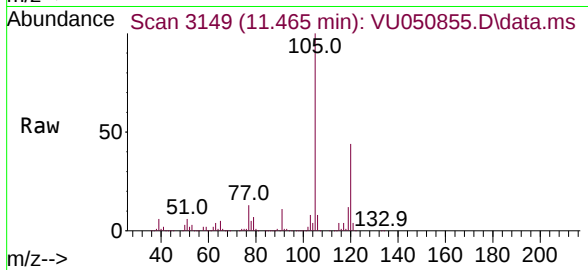




#63
1,2,4-Trimethylbenzene
Concen: 58.685 ug/L
RT: 11.465 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VU050855.D
Acq: 21 Sep 2022 01:04

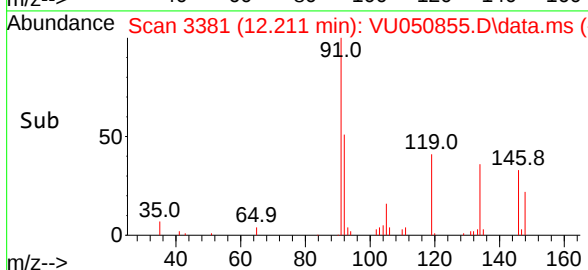
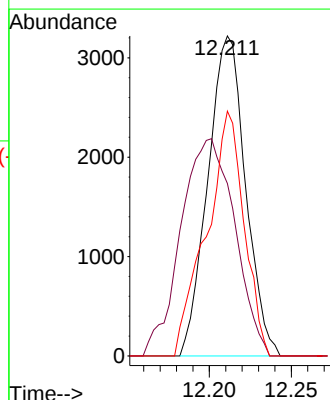
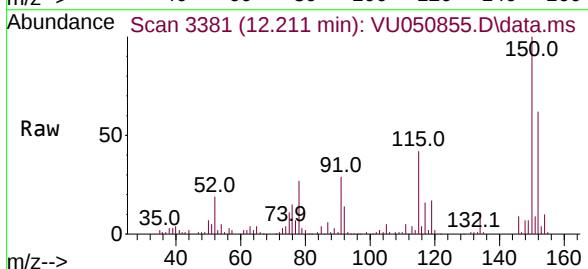
Instrument :
MSVOA_U
ClientSampleId :
EXZ05

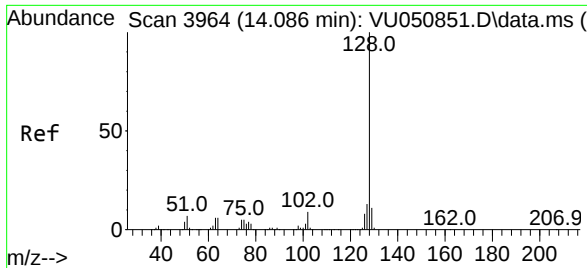
Tgt Ion:105 Resp: 616240
Ion Ratio Lower Upper
105 100
120 44.1 34.9 52.3



#67
1,2-Dichlorobenzene
Concen: 0.823 ug/L
RT: 12.211 min Scan# 3381
Delta R.T. -0.000 min
Lab File: VU050855.D
Acq: 21 Sep 2022 01:04

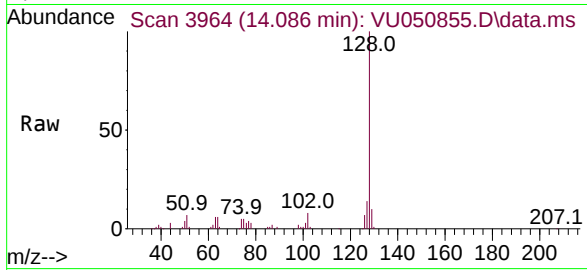
Tgt Ion:146 Resp: 5140
Ion Ratio Lower Upper
146 100
111 49.7 35.2 52.8
148 70.5 52.0 78.0





#71
Naphthalene
Concen: 5.412 ug/L
RT: 14.086 min Scan# 3964
Delta R.T. -0.000 min
Lab File: VU050855.D
Acq: 21 Sep 2022 01:04

Instrument :
MSVOA_U
ClientSampleId :
EXZ05



Tgt Ion:128 Resp: 70246
Ion Ratio Lower Upper
128 100
127 13.0 10.6 16.0
129 11.0 8.5 12.7

