

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U092022\
 Data File : VU050854.D
 Acq On : 21 Sep 2022 00:41
 Operator : JC/MD
 Sample : N4650-07
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ03

Quant Time: Sep 21 04:41:46 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)

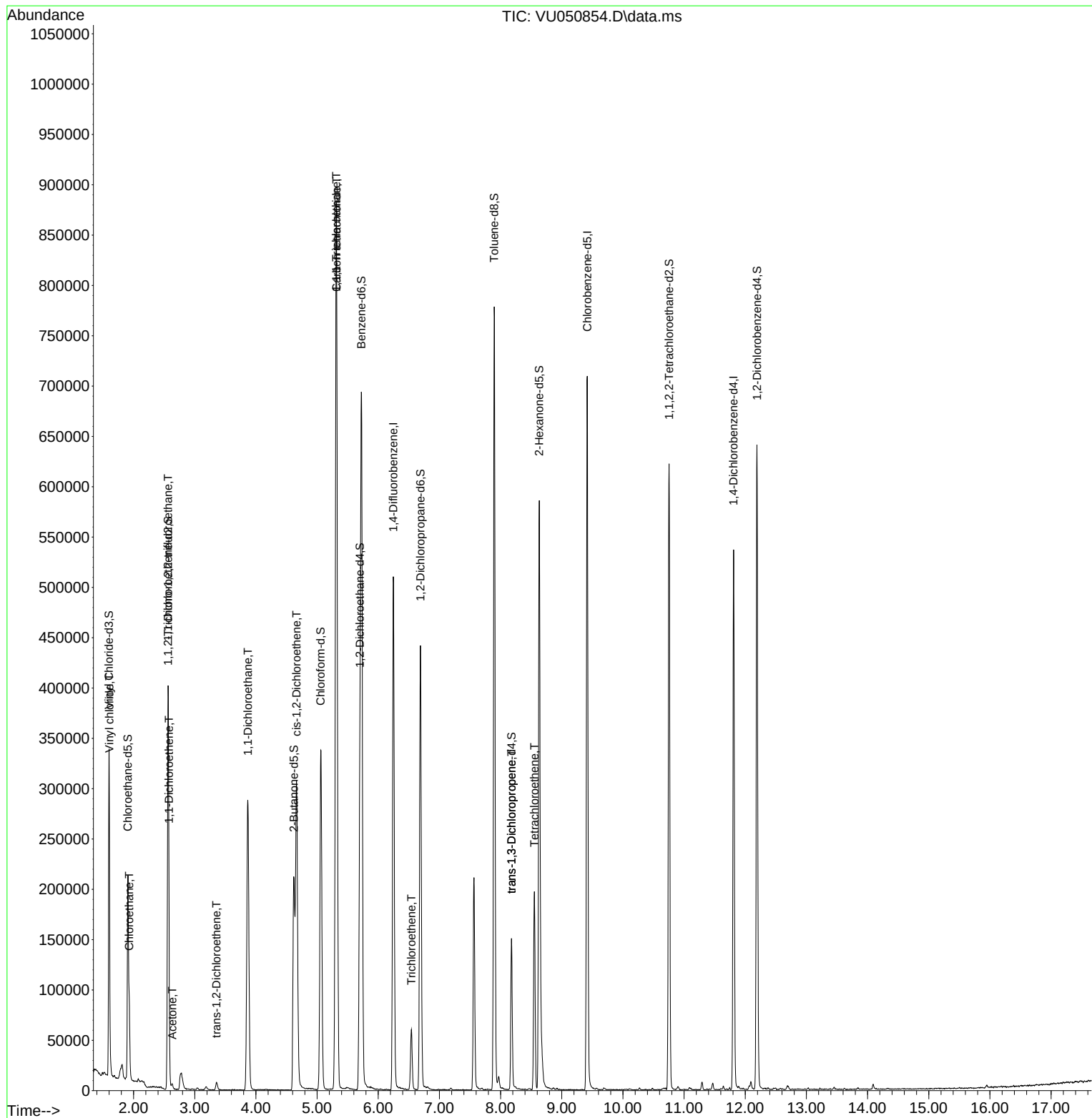
Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	403501	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	395081	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	140457	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	192320	46.004	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.000%
7) Chloroethane-d5	1.906	69	149451	50.196	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.400%
11) 1,1-Dichloroethene-d2	2.565	63	231335	35.563	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.120%
21) 2-Butanone-d5	4.620	46	303144	112.319	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	112.320%
24) Chloroform-d	5.060	84	319693	48.797	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.600%
26) 1,2-Dichloroethane-d4	5.700	65	205072	50.792	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.580%
32) Benzene-d6	5.726	84	644908	49.558	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.120%
36) 1,2-Dichloropropane-d6	6.690	67	217890	49.605	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.200%
41) Toluene-d8	7.896	98	513076	45.105	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.220%
43) trans-1,3-Dichloroprop...	8.179	79	86258	45.141	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.280%
47) 2-Hexanone-d5	8.632	63	183092	101.147	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.150%
56) 1,1,2,2-Tetrachloroeth...	10.754	84	322559	48.166	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.340%
66) 1,2-Dichlorobenzene-d4	12.192	152	162756	55.344	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	110.680%
Target Compounds						Qvalue
5) Vinyl chloride	1.604	62	63861	13.430	ug/L	91
8) Chloroethane	1.928	64	43395	16.482	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	2.562	101	2060	0.624	ug/L #	21
12) 1,1-Dichloroethene	2.578	96	8191	2.640	ug/L #	1
13) Acetone	2.633	43	5944	2.601	ug/L	90
17) trans-1,2-Dichloroethene	3.356	96	1863	0.586	ug/L	88
19) 1,1-Dichloroethane	3.867	63	335703	52.255	ug/L	98
20) cis-1,2-Dichloroethene	4.665	96	154440	43.809	ug/L	98
30) 1,1,1-Trichloroethane	5.314	97	641002	121.954	ug/L	99
31) Carbon tetrachloride	5.317	117	82527	18.900	ug/L	100
34) Trichloroethene	6.542	95	20722	6.136	ug/L	96
44) trans-1,3-Dichloropropene	8.179	75	3708	0.732	ug/L	84
46) Tetrachloroethene	8.552	164	42005	17.307	ug/L	94

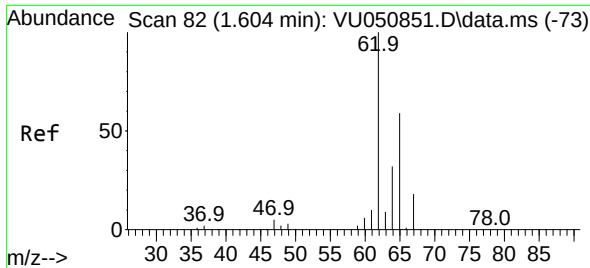
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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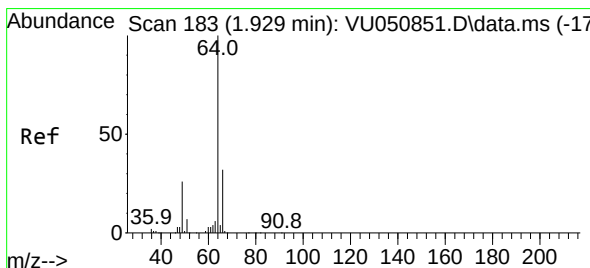
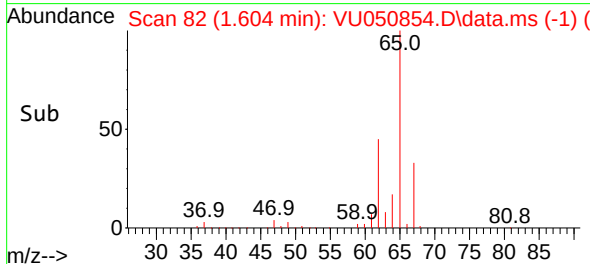
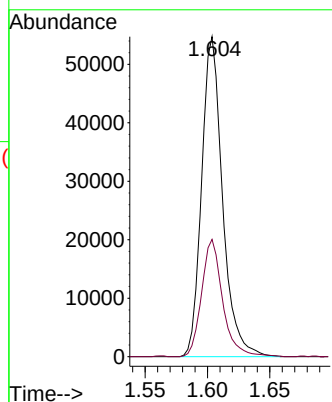
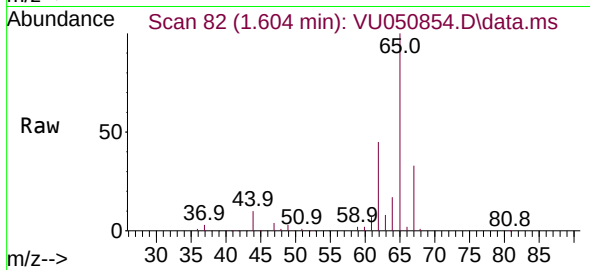




#5
 Vinyl chloride
 Concen: 13.430 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU050854.D
 Acq: 21 Sep 2022 00:41

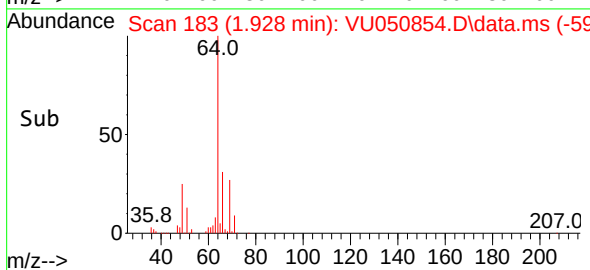
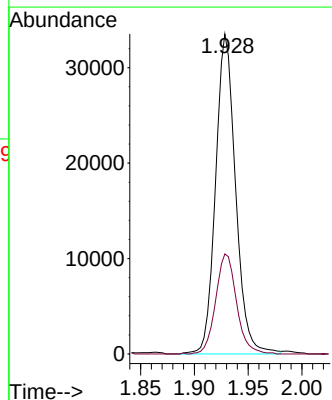
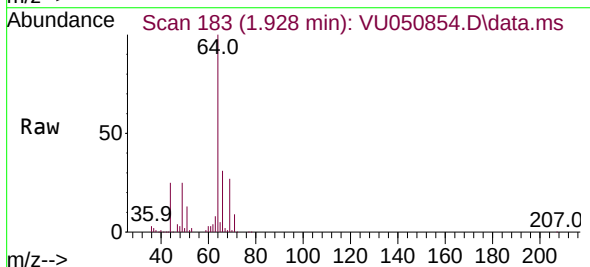
Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ03

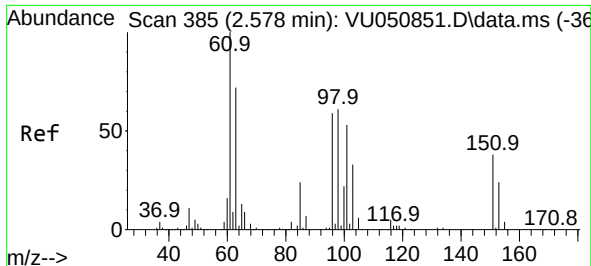
Tgt Ion: 62 Resp: 63861
 Ion Ratio Lower Upper
 62 100
 64 36.6 22.2 41.2



#8
 Chloroethane
 Concen: 16.482 ug/L
 RT: 1.928 min Scan# 183
 Delta R.T. -0.000 min
 Lab File: VU050854.D
 Acq: 21 Sep 2022 00:41

Tgt Ion: 64 Resp: 43395
 Ion Ratio Lower Upper
 64 100
 66 31.3 22.9 42.5





#10

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

Concen: 0.624 ug/L

RT: 2.562 min Scan# 3

Delta R.T. -0.016 min

Lab File: VU050854.D

Acq: 21 Sep 2022 00:41

Instrument :

MSVOA_U

ClientSampleId :

EXZ03

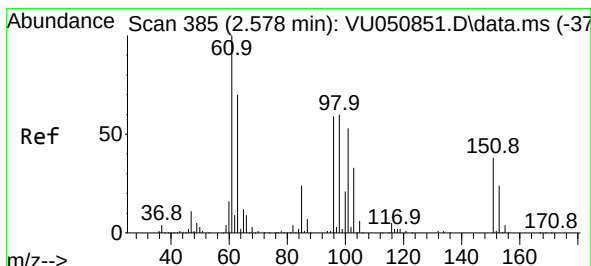
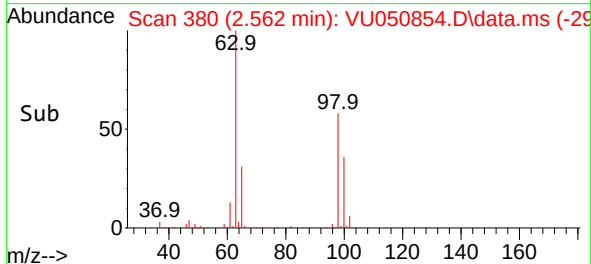
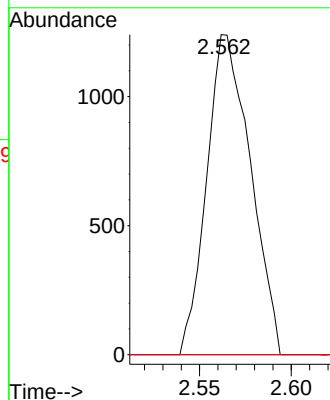
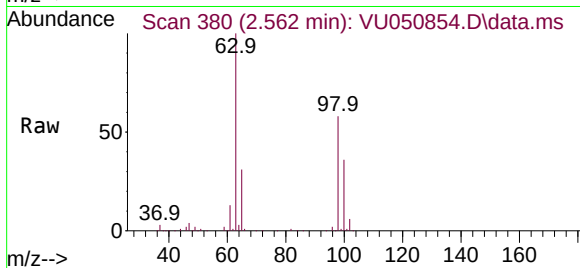
Tgt Ion:101 Resp: 2060

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: VU050854.D

Acq: 21 Sep 2022 00:41

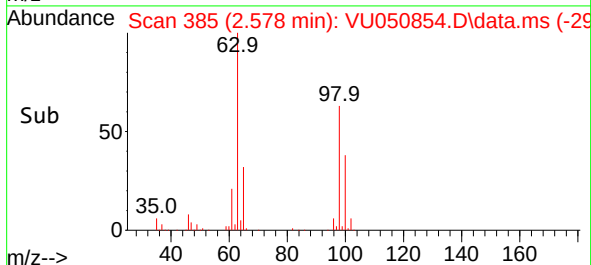
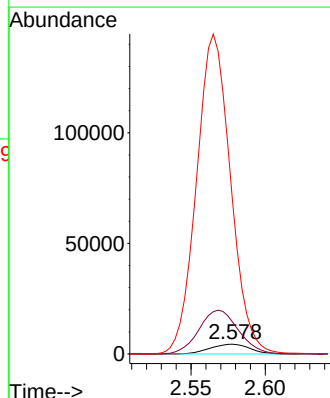
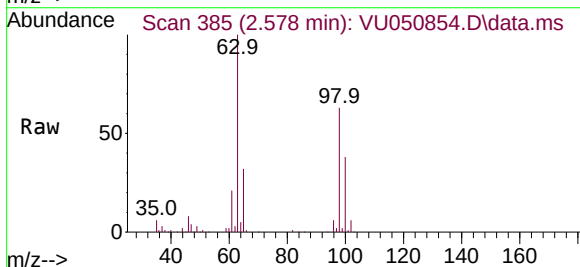
Tgt Ion: 96 Resp: 8191

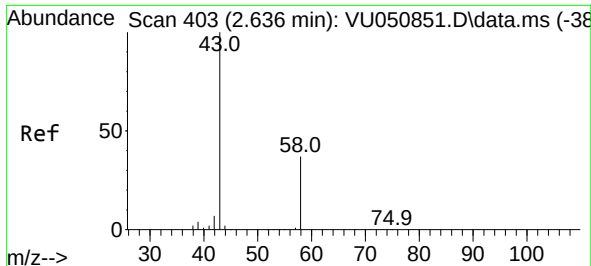
Ion Ratio Lower Upper

96 100

61 330.4 118.6 220.2#

63 1587.8 90.4 168.0#





#13

Acetone

Concen: 2.601 ug/L

RT: 2.633 min Scan# 40

Delta R.T. -0.003 min

Lab File: VU050854.D

Acq: 21 Sep 2022 00:41

Instrument :

MSVOA_U

ClientSampleId :

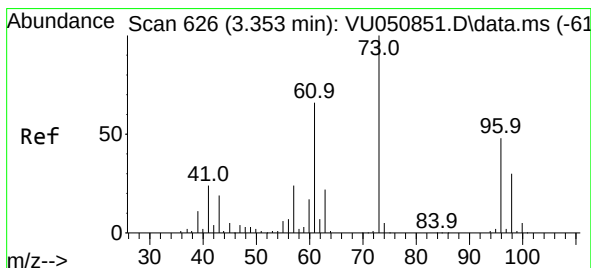
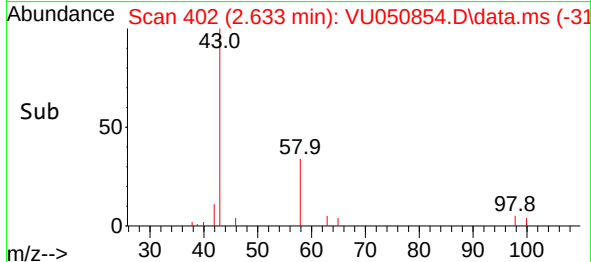
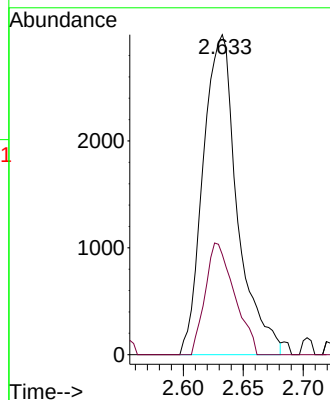
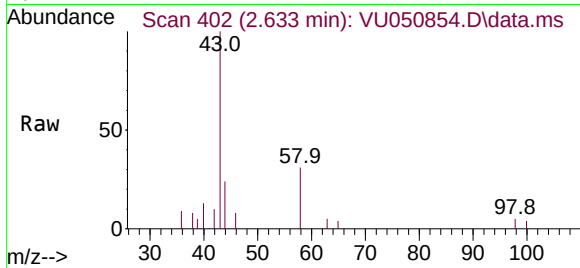
EXZ03

Tgt Ion: 43 Resp: 5944

Ion Ratio Lower Upper

43 100

58 29.7 0.0 71.4



#17

trans-1,2-Dichloroethene

Concen: 0.586 ug/L

RT: 3.356 min Scan# 627

Delta R.T. 0.003 min

Lab File: VU050854.D

Acq: 21 Sep 2022 00:41

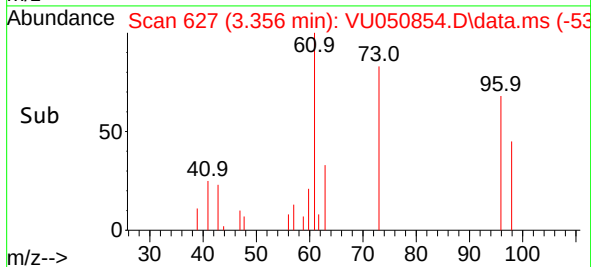
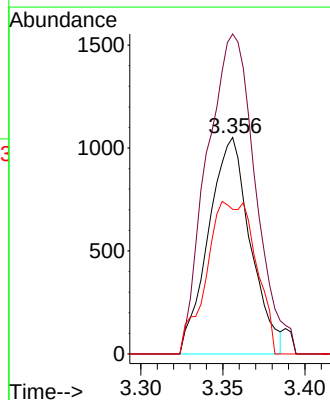
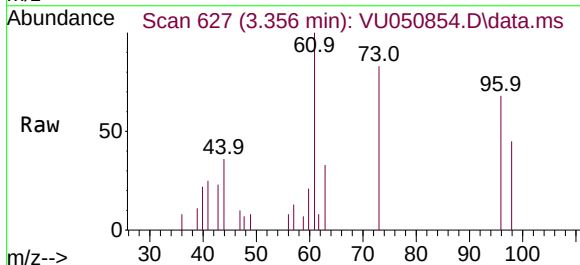
Tgt Ion: 96 Resp: 1863

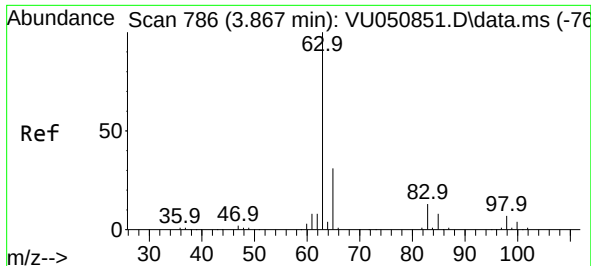
Ion Ratio Lower Upper

96 100

61 159.0 98.0 182.0

98 66.8 44.3 82.3

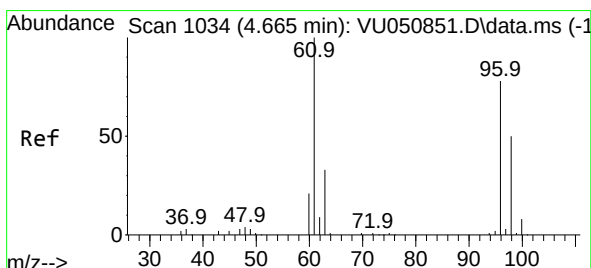
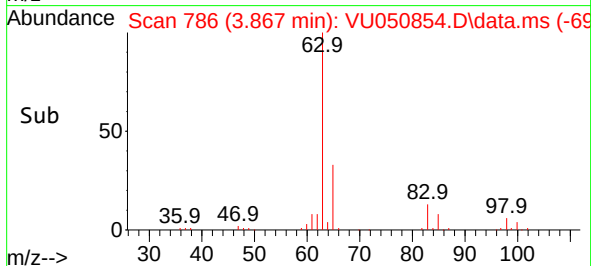
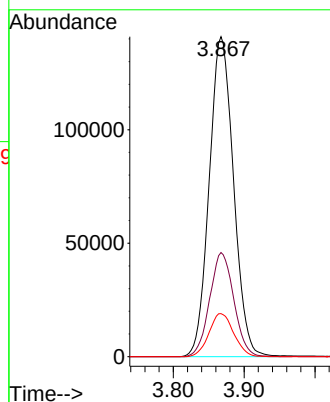
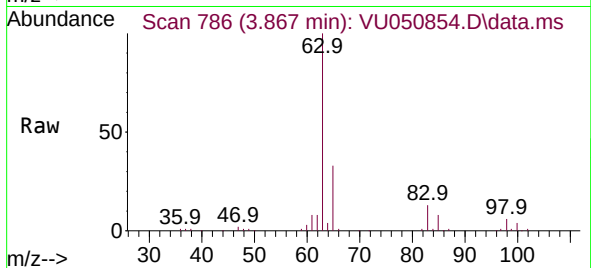




#19
1,1-Dichloroethane
Concen: 52.255 ug/L
RT: 3.867 min Scan# 786
Delta R.T. -0.000 min
Lab File: VU050854.D
Acq: 21 Sep 2022 00:41

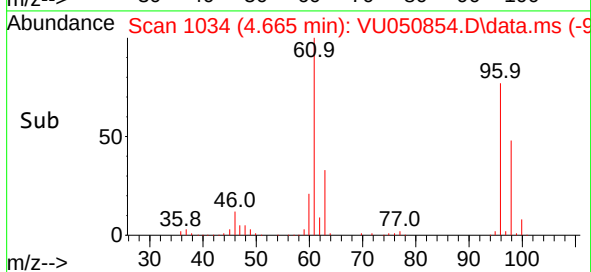
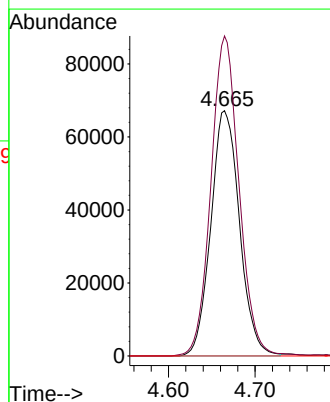
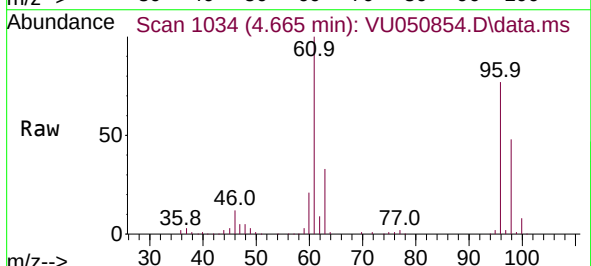
Instrument :
MSVOA_U
ClientSampleId :
EXZ03

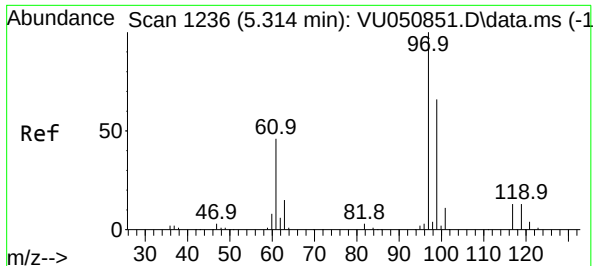
Tgt Ion: 63 Resp: 335703
Ion Ratio Lower Upper
63 100
65 32.5 21.5 39.9
83 13.4 9.3 17.3



#20
cis-1,2-Dichloroethene
Concen: 43.809 ug/L
RT: 4.665 min Scan# 1034
Delta R.T. -0.000 min
Lab File: VU050854.D
Acq: 21 Sep 2022 00:41

Tgt Ion: 96 Resp: 154440
Ion Ratio Lower Upper
96 100
61 130.5 90.1 167.3
68 0.0 0.0 0.0





#30

1,1,1-Trichloroethane

Concen: 121.954 ug/L

RT: 5.314 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU050854.D

Acq: 21 Sep 2022 00:41

Instrument :

MSVOA_U

ClientSampleId :

EXZ03

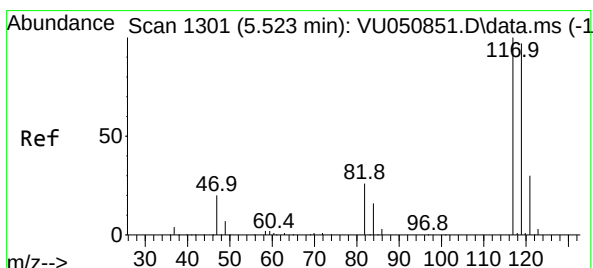
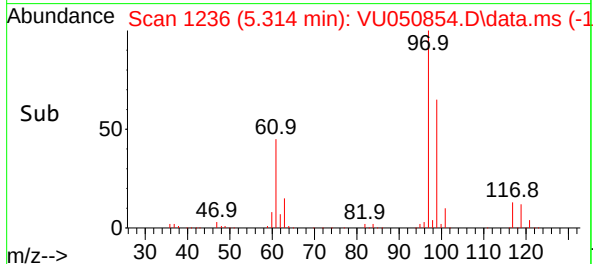
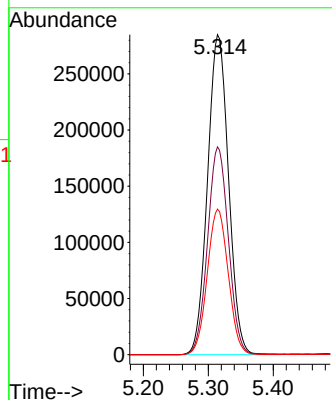
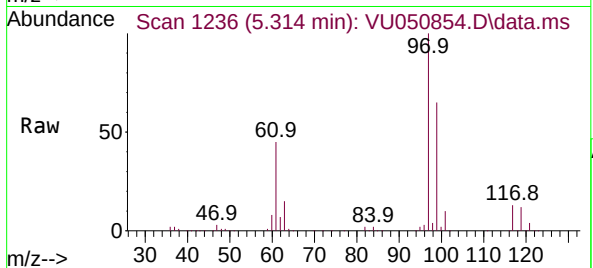
Tgt Ion: 97 Resp: 641002

Ion Ratio Lower Upper

97 100

99 64.5 52.2 78.2

61 45.5 37.1 55.7



#31

Carbon tetrachloride

Concen: 18.900 ug/L

RT: 5.317 min Scan# 1237

Delta R.T. -0.206 min

Lab File: VU050854.D

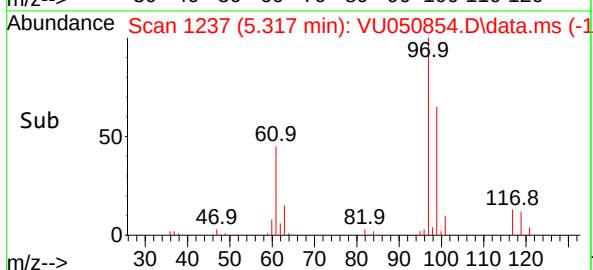
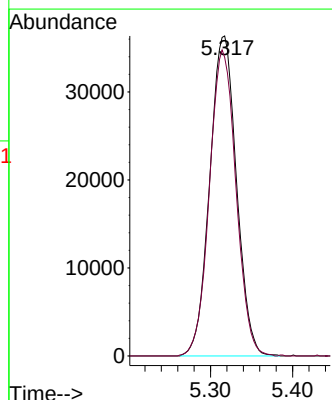
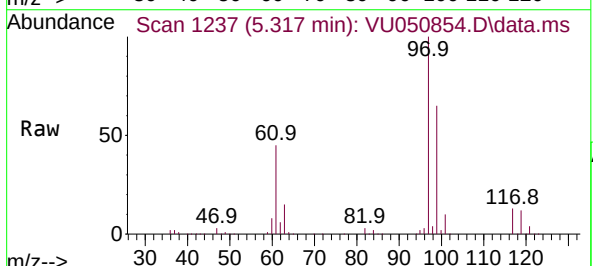
Acq: 21 Sep 2022 00:41

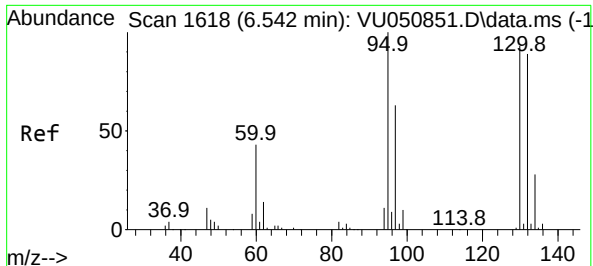
Tgt Ion: 117 Resp: 82527

Ion Ratio Lower Upper

117 100

119 94.8 76.0 114.0





#34

Trichloroethene

Concen: 6.136 ug/L

RT: 6.542 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU050854.D

Acq: 21 Sep 2022 00:41

Instrument :

MSVOA_U

ClientSampleId :

EXZ03

Tgt Ion: 95 Resp: 20722

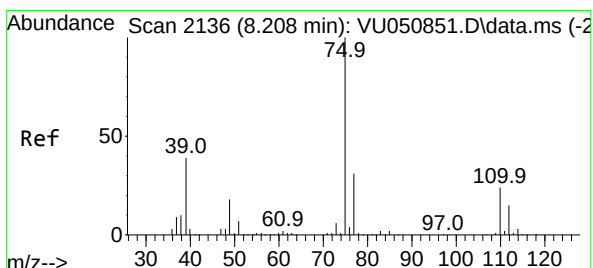
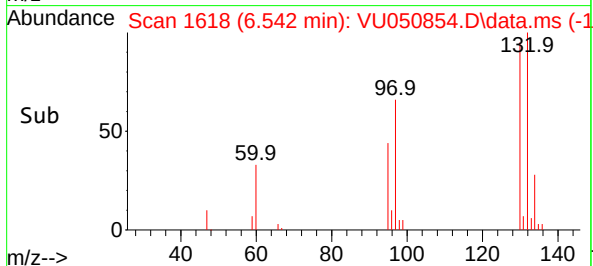
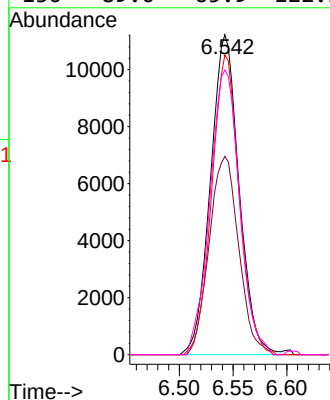
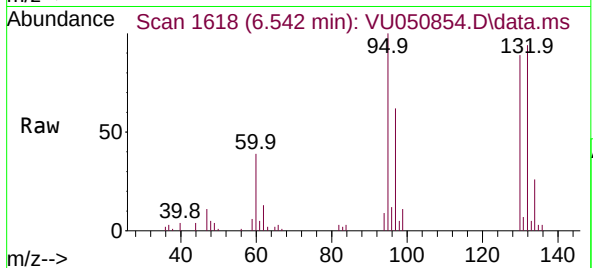
Ion Ratio Lower Upper

95 100

97 61.9 43.9 81.5

132 93.7 63.1 117.1

130 89.0 65.9 122.3



#44

trans-1,3-Dichloropropene

Concen: 0.732 ug/L

RT: 8.179 min Scan# 2127

Delta R.T. -0.029 min

Lab File: VU050854.D

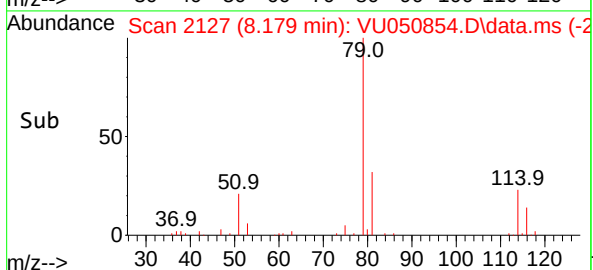
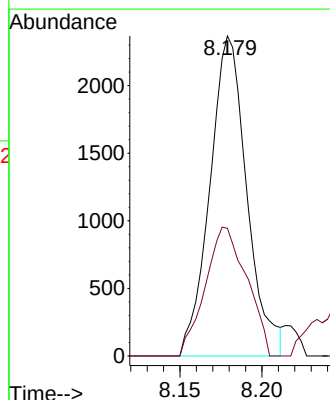
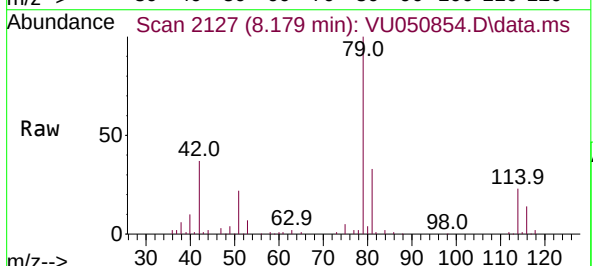
Acq: 21 Sep 2022 00:41

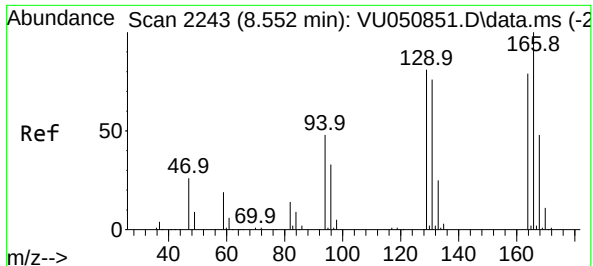
Tgt Ion: 75 Resp: 3708

Ion Ratio Lower Upper

75 100

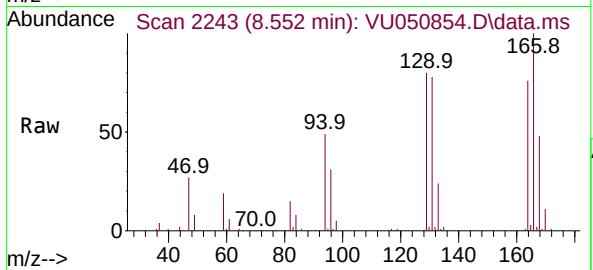
77 39.9 21.9 40.7





#46
 Tetrachloroethene
 Concen: 17.307 ug/L
 RT: 8.552 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VU050854.D
 Acq: 21 Sep 2022 00:41

Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ03



Tgt Ion:	164	Resp:	42005
Ion	Ratio	Lower	Upper
164	100		
129	104.9	68.5	127.3
131	102.5	66.1	122.7
166	131.4	88.8	164.8

