

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092022\
 Data File : VU050844.D
 Acq On : 20 Sep 2022 20:21
 Operator : JC/MD
 Sample : N4651-13
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ46

Quant Time: Sep 21 02:27:10 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092022WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Sep 21 02:18:13 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	419148	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	400820	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	151583	50.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	193286	44.509	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.020%
7) Chloroethane-d5	1.906	69	152816	49.410	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.820%
11) 1,1-Dichloroethene-d2	2.636	63	219	0.032	ug/L	0.07
Spiked Amount	50.000	Range	60 - 125	Recovery	=	0.060%#
21) 2-Butanone-d5	4.623	46	318334	113.544	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	113.540%
24) Chloroform-d	5.063	84	324741	47.717	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.440%
26) 1,2-Dichloroethane-d4	5.700	65	206112	49.144	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.280%
32) Benzene-d6	5.726	84	654005	49.537	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.080%
36) 1,2-Dichloropropane-d6	6.690	67	226733	50.879	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.760%
41) Toluene-d8	7.896	98	534329	46.301	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.600%
43) trans-1,3-Dichloroprop...	8.179	79	88262	45.528	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.060%
47) 2-Hexanone-d5	8.632	63	194694	106.016	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	106.020%
56) 1,1,2,2-Tetrachloroeth...	10.754	84	323779	47.656	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.320%
66) 1,2-Dichlorobenzene-d4	12.192	152	173274	54.596	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	109.200%

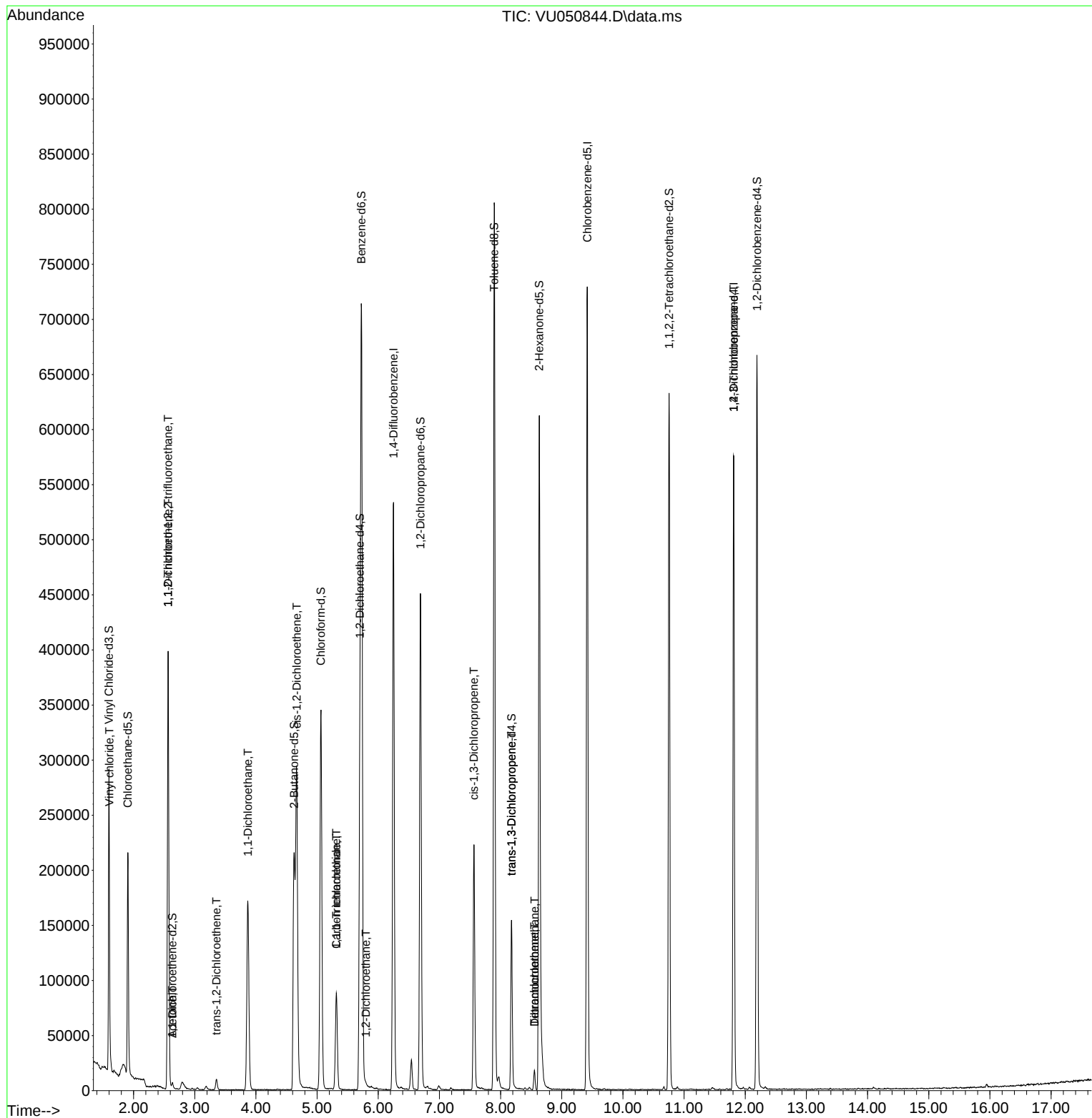
Target Compounds					Qvalue
5) Vinyl chloride	1.604	62	19718	3.992	ug/L 89
10) 1,1,2-Trichloro-1,2,2-...	2.565	101	2006	0.585	ug/L # 21
12) 1,1-Dichloroethene	2.565	96	2559	0.794	ug/L # 1
13) Acetone	2.632	43	5742	2.419	ug/L 95
17) trans-1,2-Dichloroethene	3.356	96	4290	1.299	ug/L 97
19) 1,1-Dichloroethane	3.867	63	197390	29.578	ug/L 98
20) cis-1,2-Dichloroethene	4.668	96	140610	38.397	ug/L 99
27) 1,2-Dichloroethane	5.796	62	2530	0.501	ug/L 98
30) 1,1,1-Trichloroethane	5.314	97	63227	11.857	ug/L 98
31) Carbon tetrachloride	5.314	117	8307	1.875	ug/L 95
39) cis-1,3-Dichloropropene	7.565	75	4929	0.913	ug/L # 53
44) trans-1,3-Dichloropropene	8.179	75	3855	0.750	ug/L 90
46) Tetrachloroethene	8.552	164	3858	1.567	ug/L 94
49) Dibromochloromethane	8.555	129	4156	1.139	ug/L # 10
60) 1,2,3-Trichloropropane	11.812	75	19265	4.518	ug/L # 70

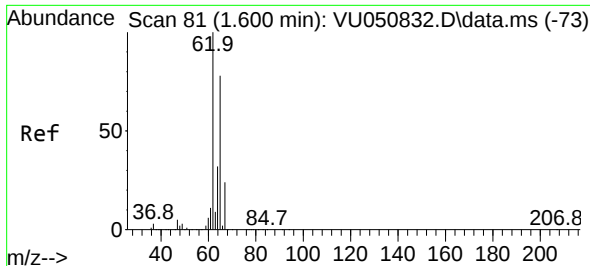
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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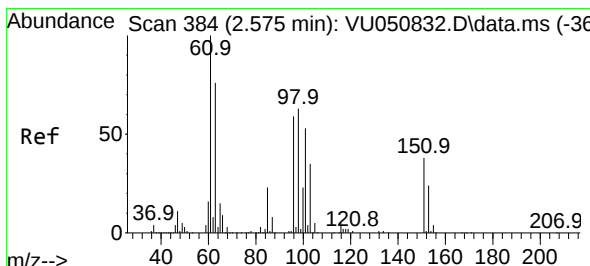
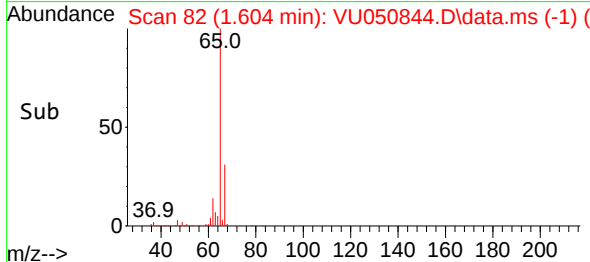
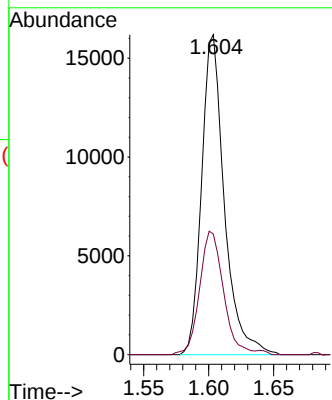
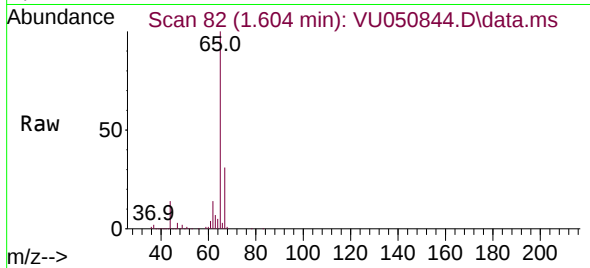




#5
 Vinyl chloride
 Concen: 3.992 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VU050844.D
 Acq: 20 Sep 2022 20:21

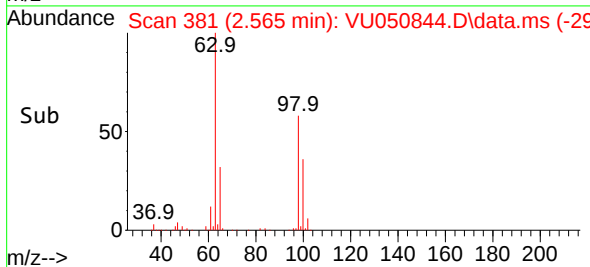
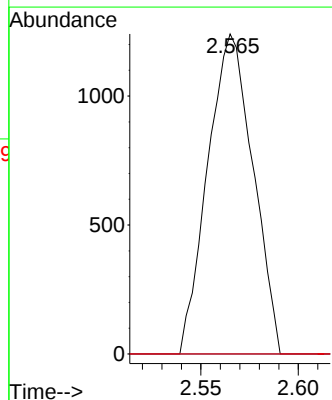
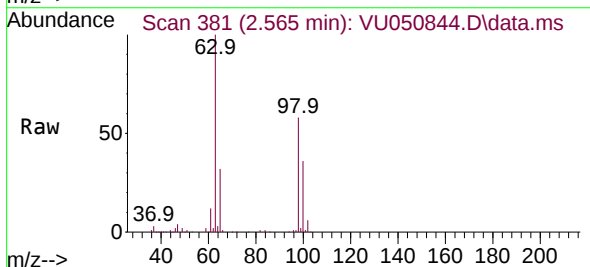
Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ46

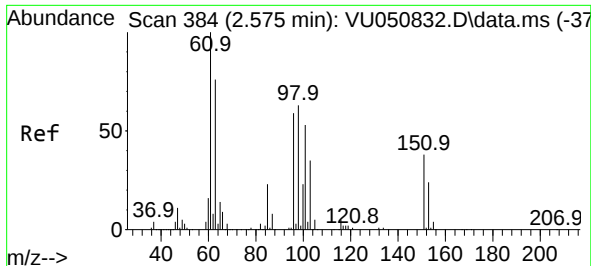
Tgt Ion: 62 Resp: 19718
 Ion Ratio Lower Upper
 62 100
 64 37.7 22.2 41.2



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.585 ug/L
 RT: 2.565 min Scan# 381
 Delta R.T. -0.010 min
 Lab File: VU050844.D
 Acq: 20 Sep 2022 20:21

Tgt Ion: 101 Resp: 2006
 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: 0.794 ug/L

RT: 2.565 min Scan# 31

Delta R.T. -0.010 min

Lab File: VU050844.D

Acq: 20 Sep 2022 20:21

Instrument :

MSVOA_U

ClientSampleId :

EXZ46

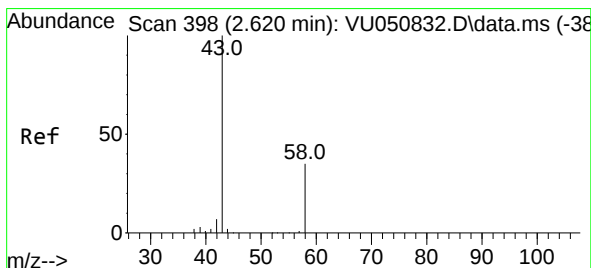
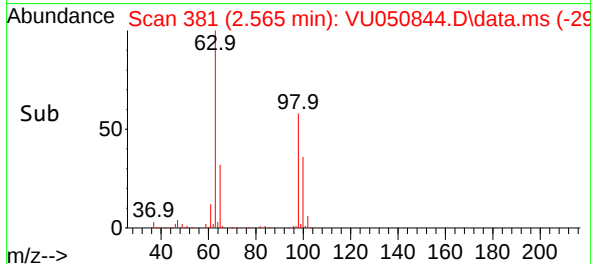
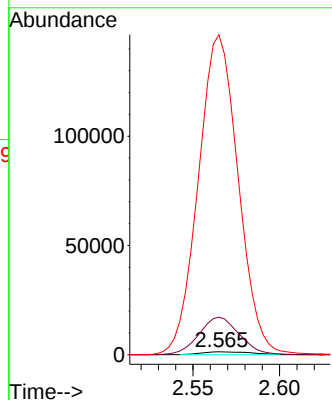
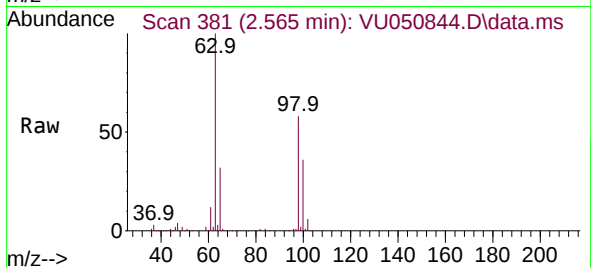
Tgt Ion: 96 Resp: 2559

Ion Ratio Lower Upper

96 100

61 1322.7 118.6 220.2#

63 11234.4 90.4 168.0#



#13

Acetone

Concen: 2.419 ug/L

RT: 2.632 min Scan# 402

Delta R.T. 0.013 min

Lab File: VU050844.D

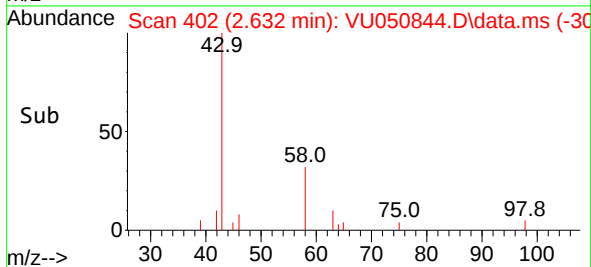
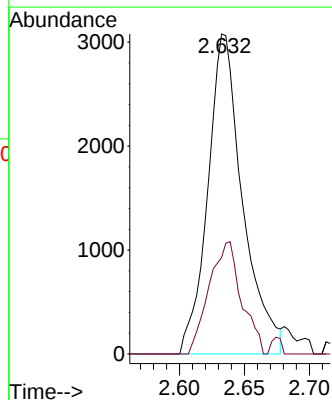
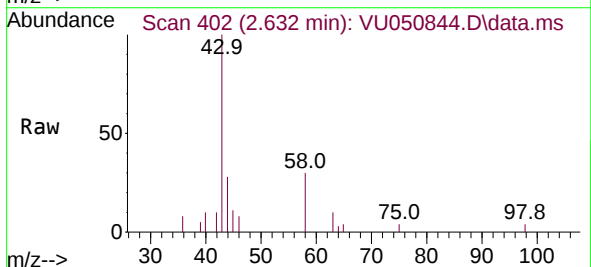
Acq: 20 Sep 2022 20:21

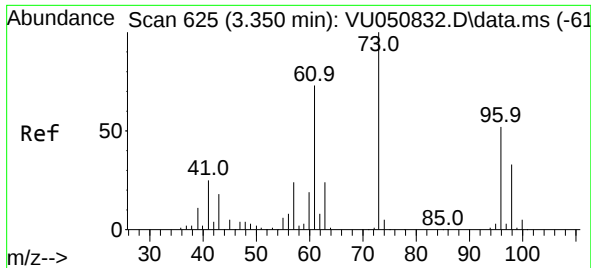
Tgt Ion: 43 Resp: 5742

Ion Ratio Lower Upper

43 100

58 32.5 0.0 71.4

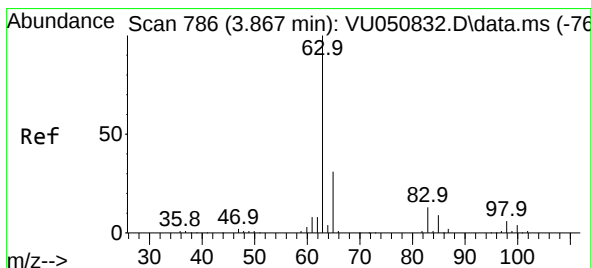
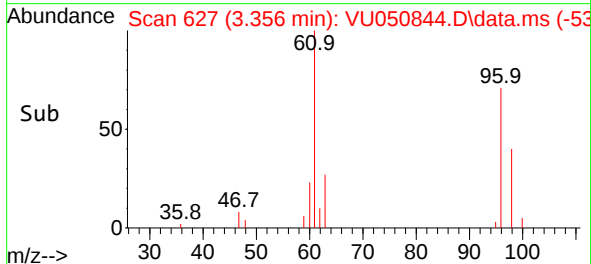
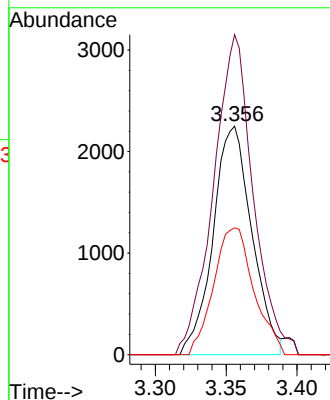
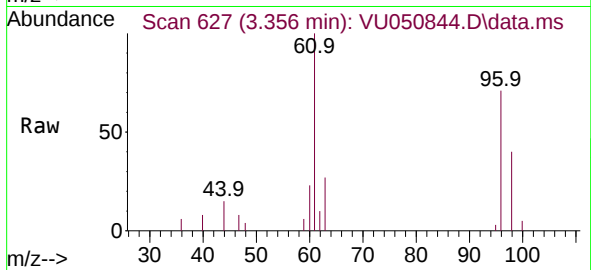




#17
trans-1,2-Dichloroethene
Concen: 1.299 ug/L
RT: 3.356 min Scan# 61
Delta R.T. 0.006 min
Lab File: VU050844.D
Acq: 20 Sep 2022 20:21

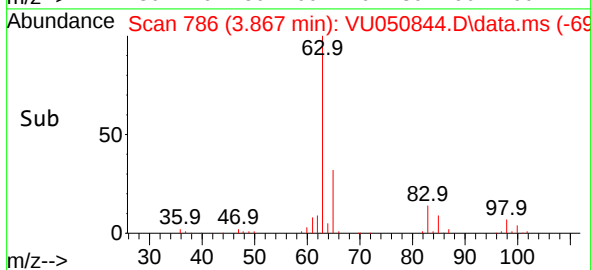
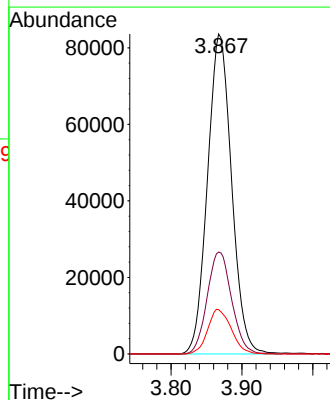
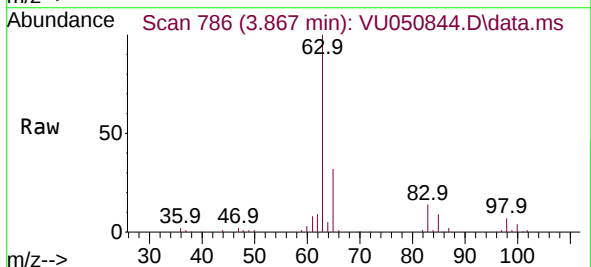
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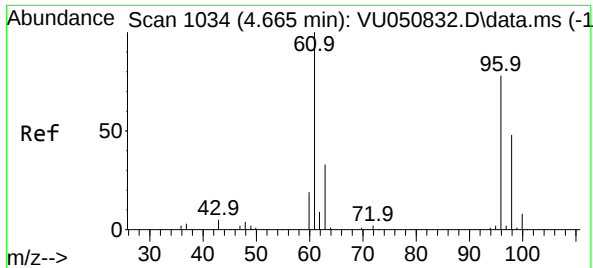
Tgt Ion: 96 Resp: 4290
Ion Ratio Lower Upper
96 100
61 140.0 98.0 182.0
98 55.5 44.3 82.3



#19
1,1-Dichloroethane
Concen: 29.578 ug/L
RT: 3.867 min Scan# 786
Delta R.T. -0.000 min
Lab File: VU050844.D
Acq: 20 Sep 2022 20:21

Tgt Ion: 63 Resp: 197390
Ion Ratio Lower Upper
63 100
65 31.8 21.5 39.9
83 13.9 9.3 17.3

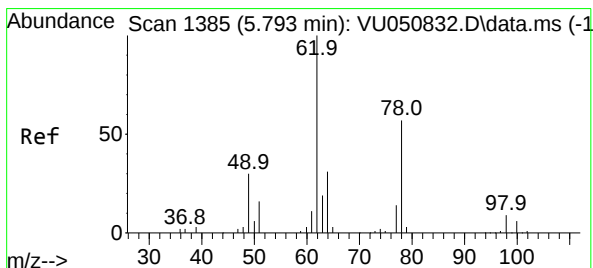
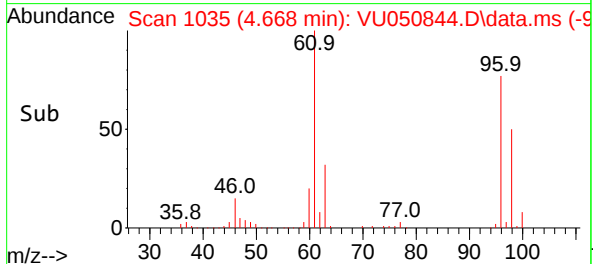
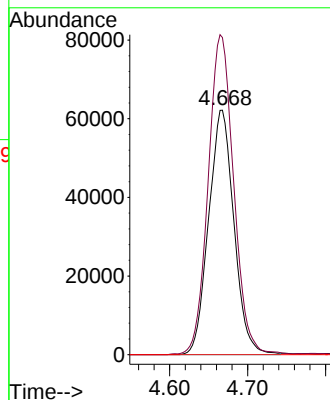
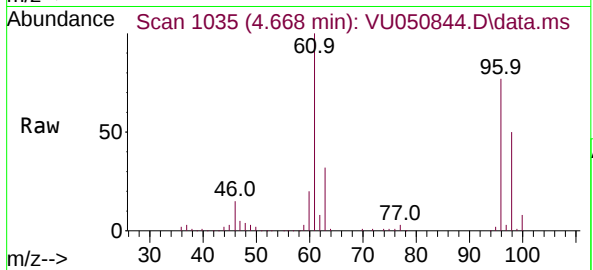




#20
 cis-1,2-Dichloroethene
 Concen: 38.397 ug/L
 RT: 4.668 min Scan# 1035
 Delta R.T. 0.003 min
 Lab File: VU050844.D
 Acq: 20 Sep 2022 20:21

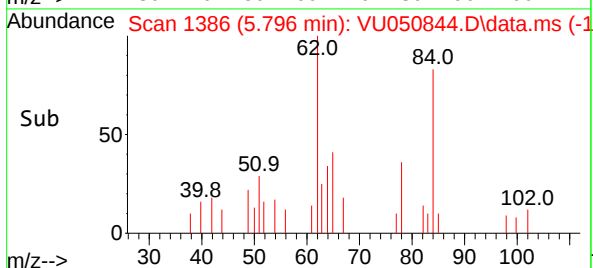
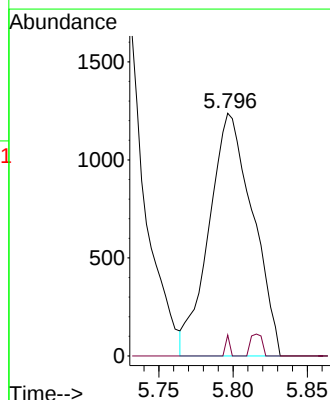
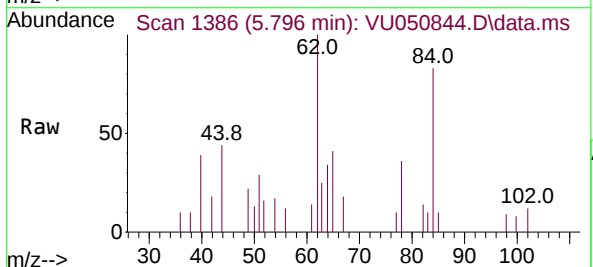
Instrument :
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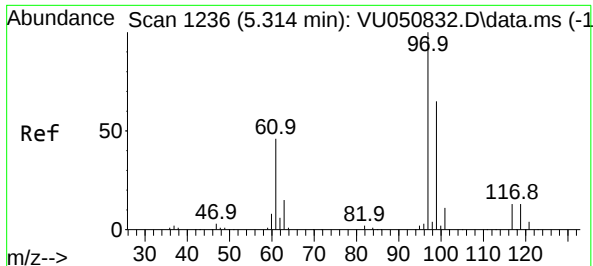
Tgt Ion: 96 Resp: 140610
 Ion Ratio Lower Upper
 96 100
 61 129.7 90.1 167.3
 68 0.0 0.0 0.0



#27
 1,2-Dichloroethane
 Concen: 0.501 ug/L
 RT: 5.796 min Scan# 1386
 Delta R.T. 0.003 min
 Lab File: VU050844.D
 Acq: 20 Sep 2022 20:21

Tgt Ion: 62 Resp: 2530
 Ion Ratio Lower Upper
 62 100
 98 8.6 7.4 11.0





#30

1,1,1-Trichloroethane

Concen: 11.857 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. -0.000 min

Lab File: VU050844.D

Acq: 20 Sep 2022 20:21

Instrument :

MSVOA_U

ClientSampleId :

EXZ46

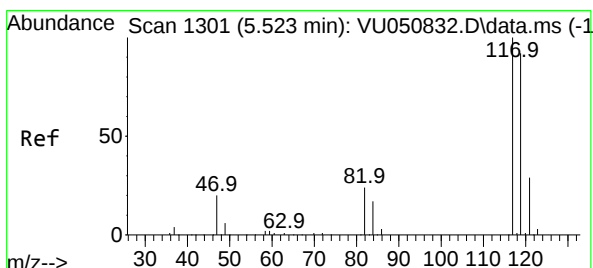
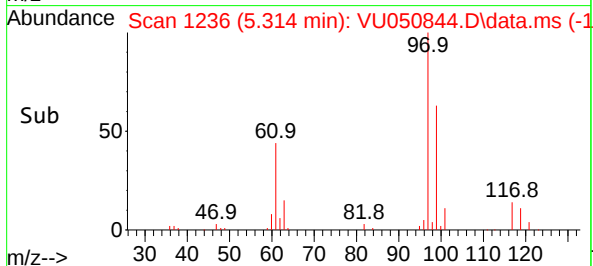
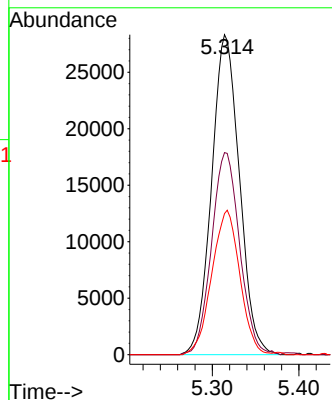
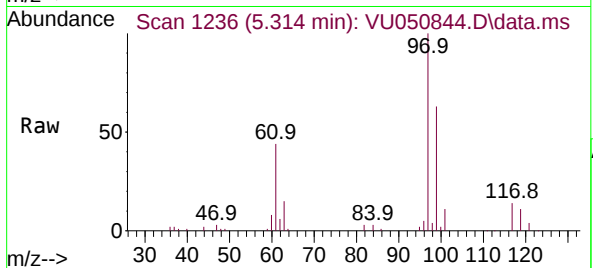
Tgt Ion: 97 Resp: 63227

Ion Ratio Lower Upper

97 100

99 63.7 52.2 78.2

61 45.6 37.1 55.7



#31

Carbon tetrachloride

Concen: 1.875 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. -0.209 min

Lab File: VU050844.D

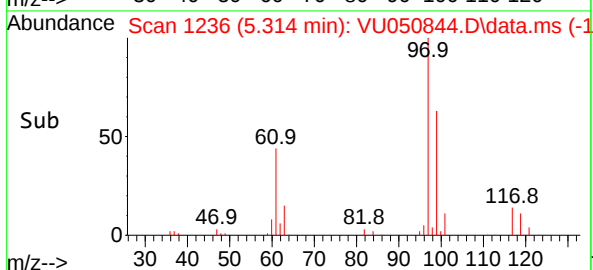
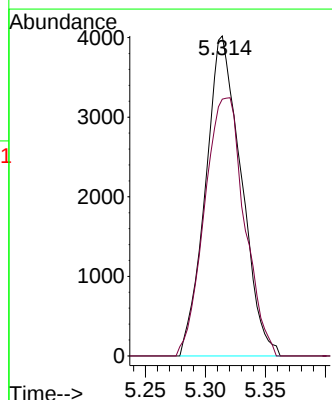
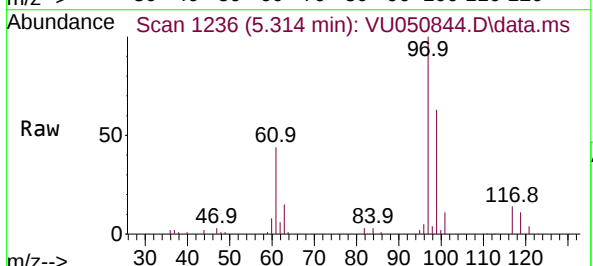
Acq: 20 Sep 2022 20:21

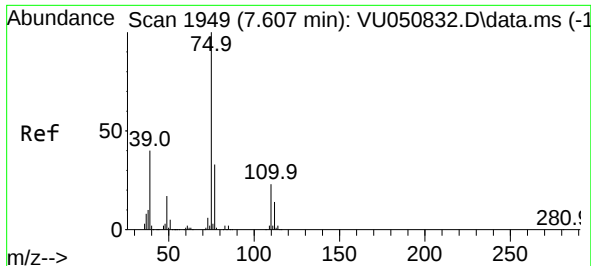
Tgt Ion: 117 Resp: 8307

Ion Ratio Lower Upper

117 100

119 90.4 76.0 114.0





#39

cis-1,3-Dichloropropene

Concen: 0.913 ug/L

RT: 7.565 min Scan# 1949

Delta R.T. -0.042 min

Lab File: VU050844.D

Acq: 20 Sep 2022 20:21

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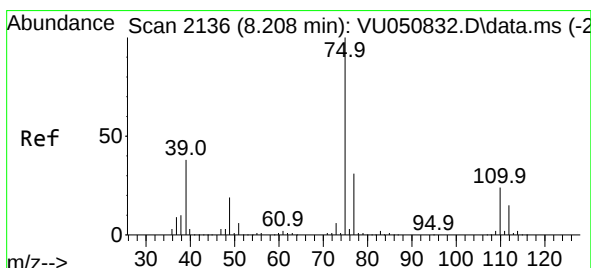
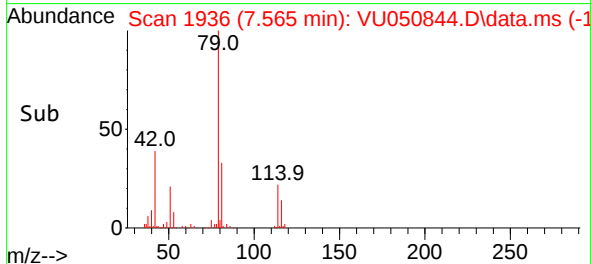
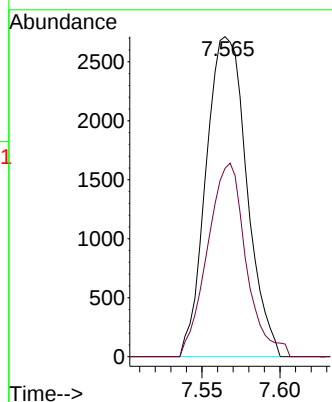
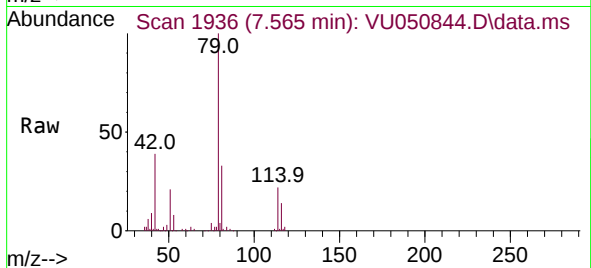
EXZ46

Tgt Ion: 75 Resp: 4929

Ion Ratio Lower Upper

75 100

77 58.9 22.8 42.4#



#44

trans-1,3-Dichloropropene

Concen: 0.750 ug/L

RT: 8.179 min Scan# 2127

Delta R.T. -0.029 min

Lab File: VU050844.D

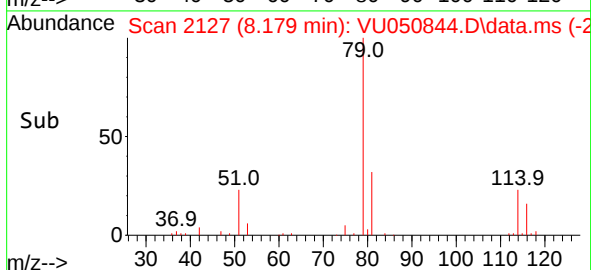
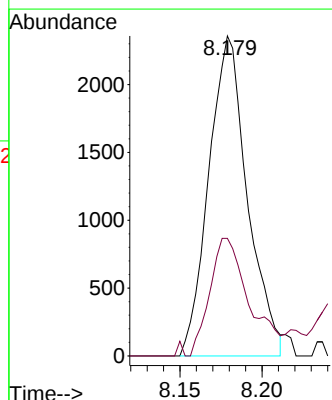
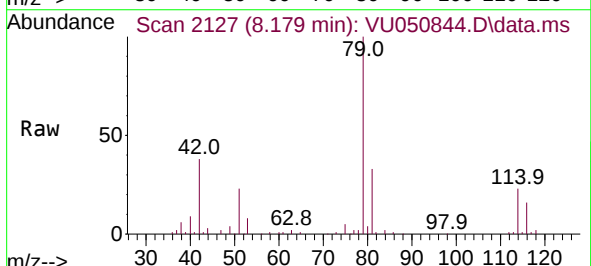
Acq: 20 Sep 2022 20:21

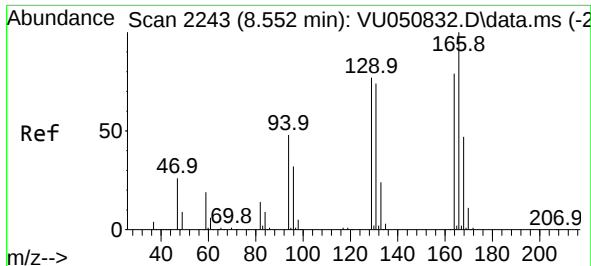
Tgt Ion: 75 Resp: 3855

Ion Ratio Lower Upper

75 100

77 36.7 21.9 40.7



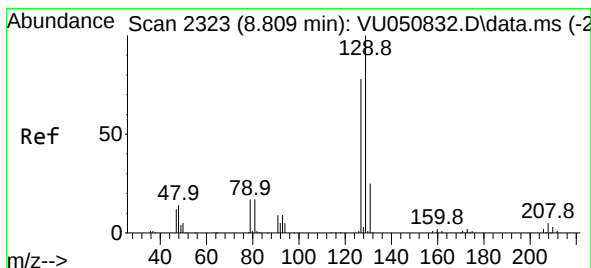
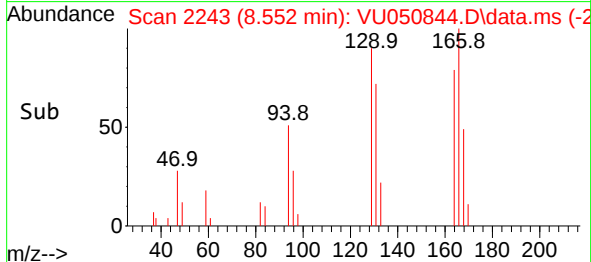
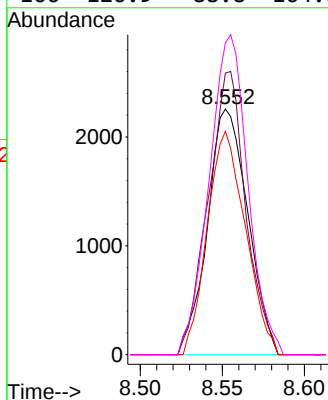
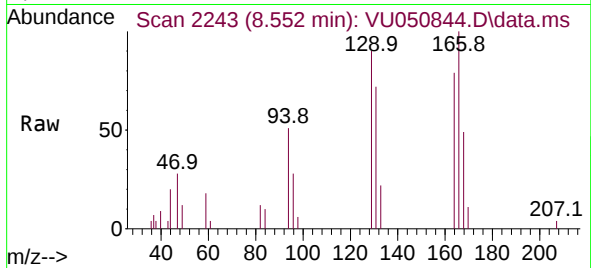


#46
 Tetrachloroethene
 Concen: 1.567 ug/L
 RT: 8.552 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VU050844.D
 Acq: 20 Sep 2022 20:21

Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ46

Tgt Ion:164 Resp: 3858

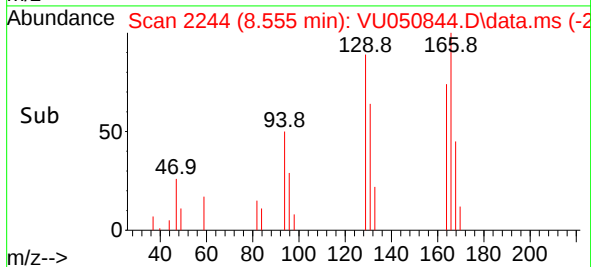
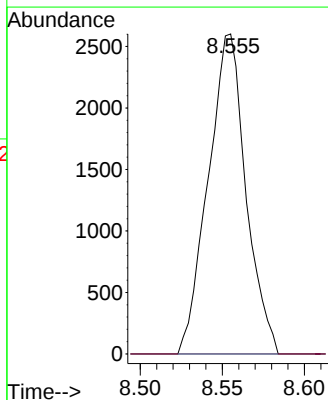
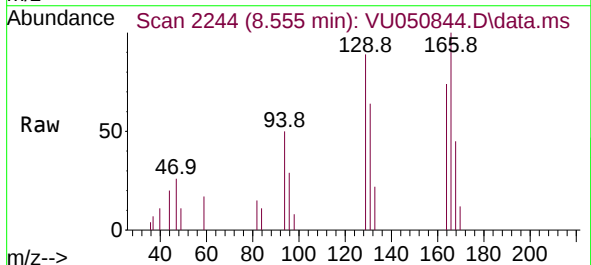
Ion	Ratio	Lower	Upper
164	100		
129	114.6	68.5	127.3
131	90.9	66.1	122.7
166	126.9	88.8	164.8

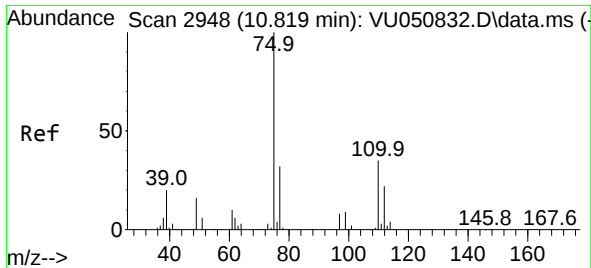


#49
 Dibromochloromethane
 Concen: 1.139 ug/L
 RT: 8.555 min Scan# 2244
 Delta R.T. -0.254 min
 Lab File: VU050844.D
 Acq: 20 Sep 2022 20:21

Tgt Ion:129 Resp: 4156

Ion	Ratio	Lower	Upper
129	100		
127	0.0	54.5	101.1#





#60
 1,2,3-Trichloropropane
 Concen: 4.518 ug/L
 RT: 11.812 min Scan# 31
 Delta R.T. 0.993 min
 Lab File: VU050844.D
 Acq: 20 Sep 2022 20:21

Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ46

Tgt Ion: 75 Resp: 19265
 Ion Ratio Lower Upper
 75 100
 77 32.7 26.2 39.4
 110 2.4 28.6 43.0#

