

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092023\
 Data File : VU055417.D
 Acq On : 20 Sep 2023 11:55
 Operator : MD/SY
 Sample : 04380-21
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BH4P4

Quant Time: Sep 21 00:27:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR091923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Sep 21 00:26:15 2023
 Response via : Initial Calibration

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

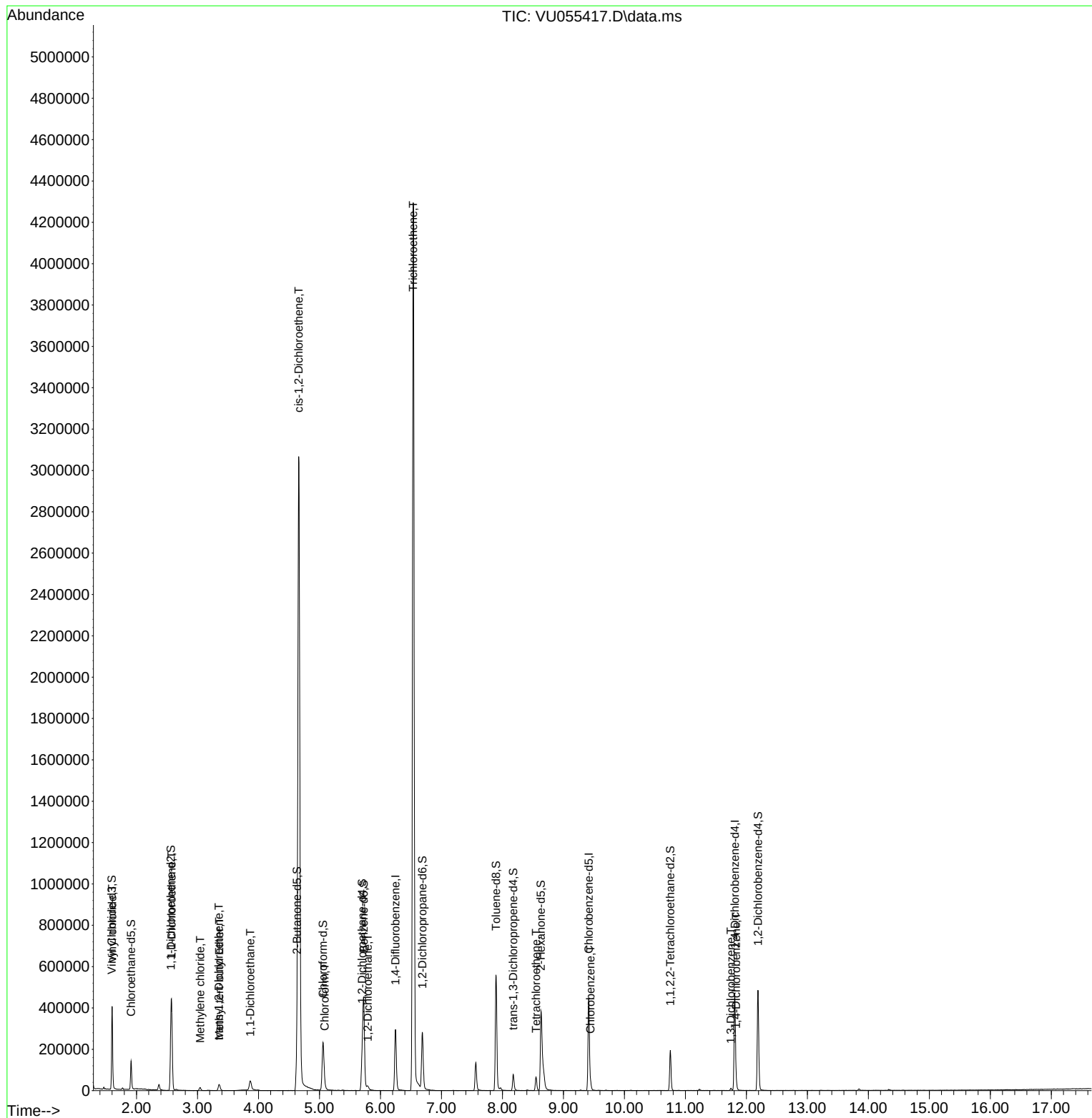
Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	243614	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	253370	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	124031	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	109719	4.456	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.200%
7) Chloroethane-d5	1.911	69	98188	4.525	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.600%
11) 1,1-Dichloroethene-d2	2.563	65	46816	4.619	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.400%
20) 2-Butanone-d5	4.631	46	231657	52.090	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.180%
24) Chloroform-d	5.058	84	215175	4.832	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.600%
26) 1,2-Dichloroethane-d4	5.698	65	109396	5.107	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.200%
32) Benzene-d6	5.724	84	435038	4.909	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.200%
36) 1,2-Dichloropropane-d6	6.688	67	132696	5.011	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.200%
41) Toluene-d8	7.894	98	384167	4.756	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.200%
43) trans-1,3-Dichloroprop...	8.177	79	45186	4.863	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.200%
46) 2-Hexanone-d5	8.631	63	120909	42.777	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	85.560%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	95228	4.799	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.000%
66) 1,2-Dichlorobenzene-d4	12.190	152	129397	5.169	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.400%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	190787	8.476	ug/L	98
12) 1,1-Dichloroethene	2.576	96	100001	5.871	ug/L	92
16) Methylene chloride	3.042	84	6779	0.332	ug/L	98
17) Methyl tert-butyl Ether	3.357	73	17226	0.466	ug/L	95
18) trans-1,2-Dichloroethene	3.351	96	6064	0.353	ug/L	90
19) 1,1-Dichloroethane	3.865	63	49868	1.571	ug/L	98
22) cis-1,2-Dichloroethene	4.660	96	1613209	81.049	ug/L	99
25) Chloroform	5.084	83	14677	0.437	ug/L	99
27) 1,2-Dichloroethane	5.791	62	13780	0.668	ug/L	99
34) Trichloroethene	6.537	95	1503297	72.877	ug/L	98
47) Tetrachloroethene	8.553	164	13494	0.912	ug/L	93
51) Chlorobenzene	9.444	112	14035	0.282	ug/L	94
64) 1,3-Dichlorobenzene	11.746	146	4829	0.141	ug/L	93
65) 1,4-Dichlorobenzene	11.833	146	10788	0.315	ug/L	81

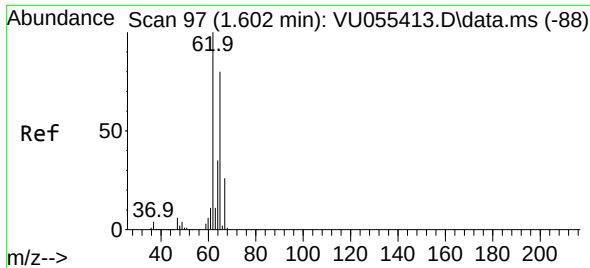
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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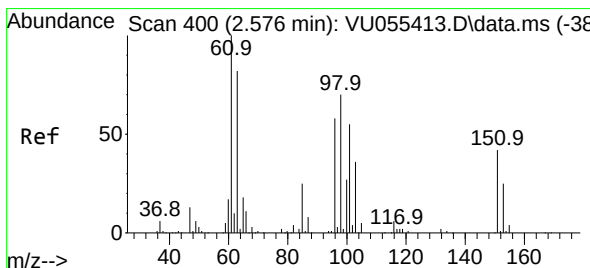
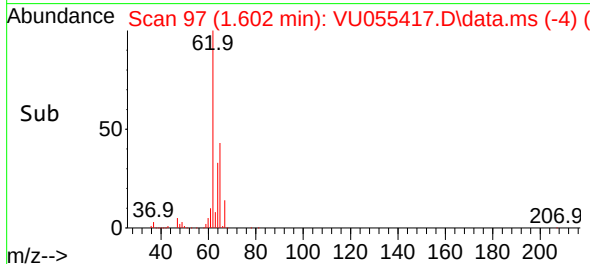
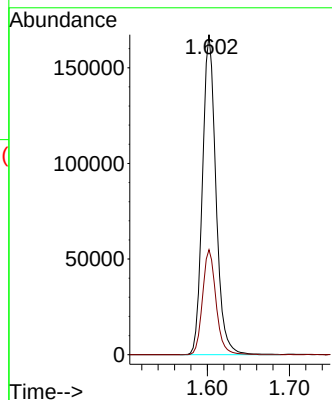
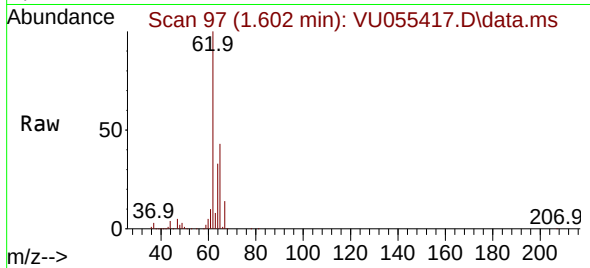




#5
 Vinyl chloride
 Concen: 8.476 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VU055417.D
 Acq: 20 Sep 2023 11:55

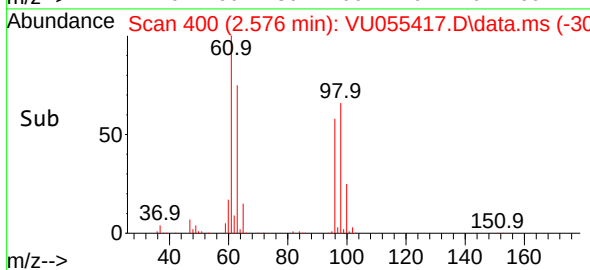
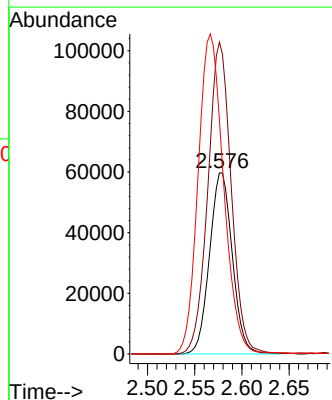
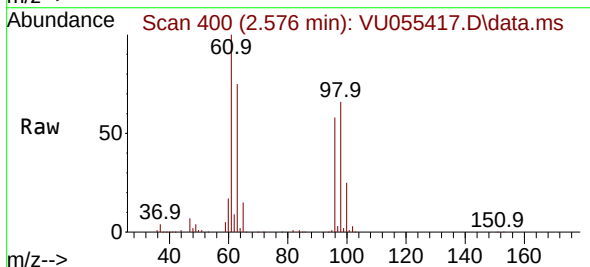
Instrument :
 MSVOA_U
 ClientSampleId :
 BH4P4

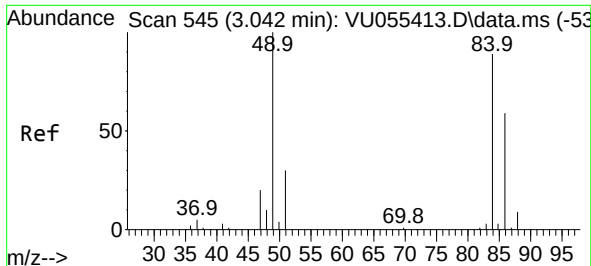
Tgt Ion: 62 Resp: 190787
 Ion Ratio Lower Upper
 62 100
 64 32.8 22.3 41.5



#12
 1,1-Dichloroethene
 Concen: 5.871 ug/L
 RT: 2.576 min Scan# 400
 Delta R.T. -0.000 min
 Lab File: VU055417.D
 Acq: 20 Sep 2023 11:55

Tgt Ion: 96 Resp: 100001
 Ion Ratio Lower Upper
 96 100
 61 172.4 114.5 212.7
 63 129.5 98.3 182.5

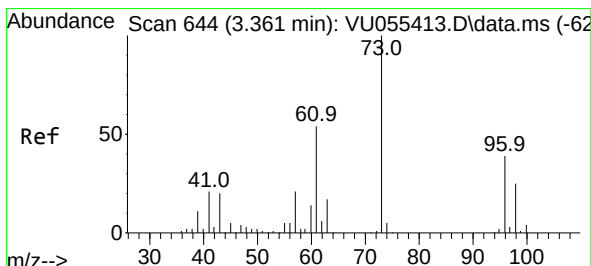
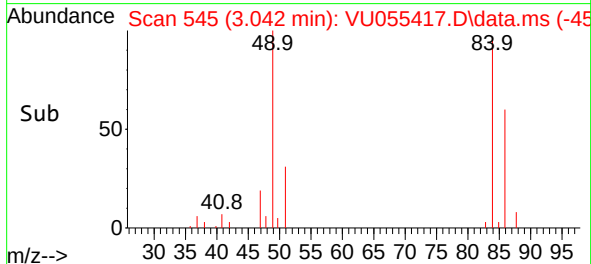
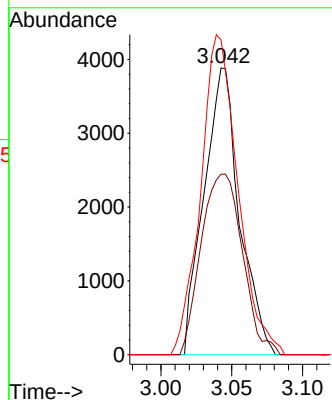
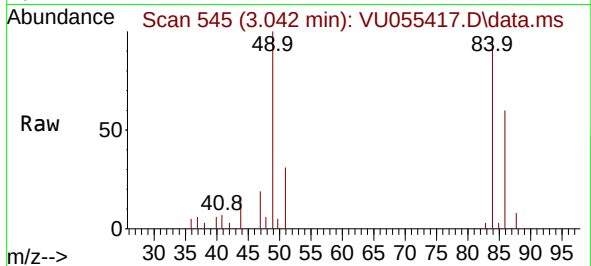




#16
Methylene chloride
Concen: 0.332 ug/L
RT: 3.042 min Scan# 54
Delta R.T. -0.000 min
Lab File: VU055417.D
Acq: 20 Sep 2023 11:55

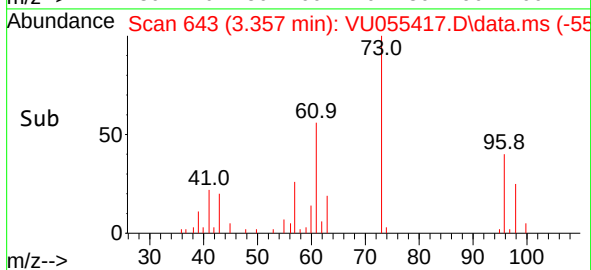
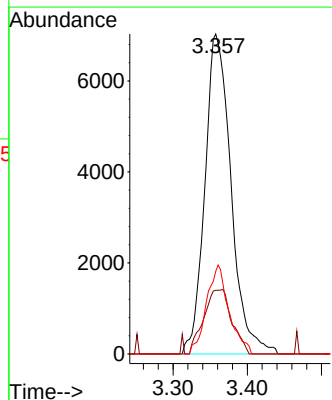
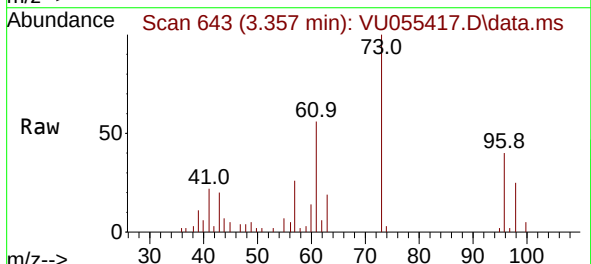
Instrument :
MSVOA_U
ClientSampleId :
BH4P4

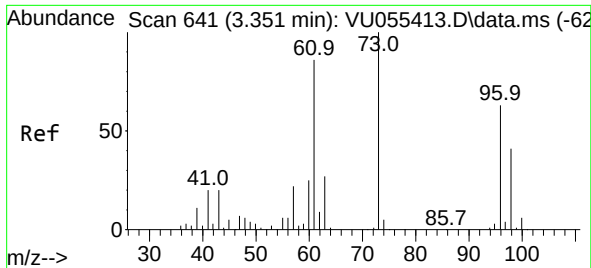
Tgt Ion: 84 Resp: 6779
Ion Ratio Lower Upper
84 100
86 63.0 44.9 83.3
49 109.8 78.8 146.3



#17
Methyl tert-butyl Ether
Concen: 0.466 ug/L
RT: 3.357 min Scan# 643
Delta R.T. -0.003 min
Lab File: VU055417.D
Acq: 20 Sep 2023 11:55

Tgt Ion: 73 Resp: 17226
Ion Ratio Lower Upper
73 100
43 21.5 14.9 22.3
57 23.8 17.3 25.9

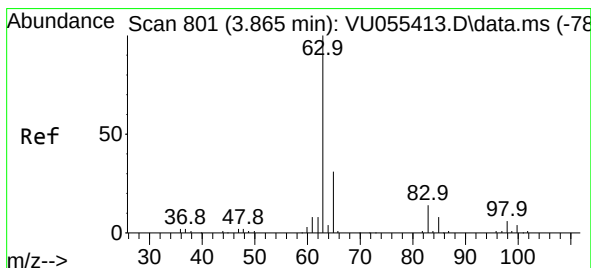
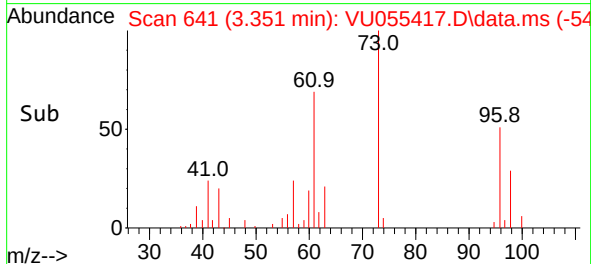
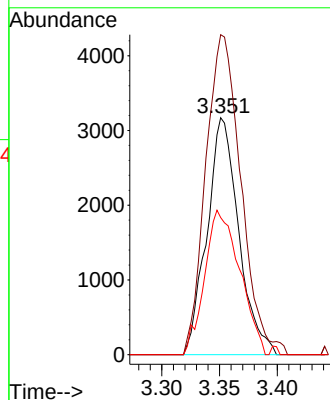
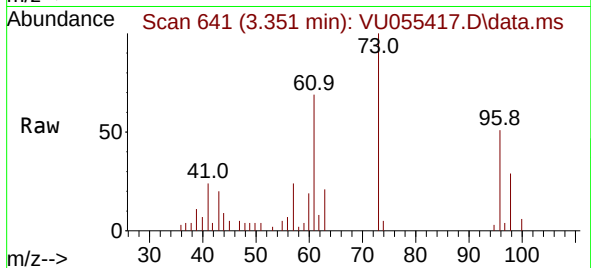




#18
trans-1,2-Dichloroethene
Concen: 0.353 ug/L
RT: 3.351 min Scan# 641
Delta R.T. -0.000 min
Lab File: VU055417.D
Acq: 20 Sep 2023 11:55

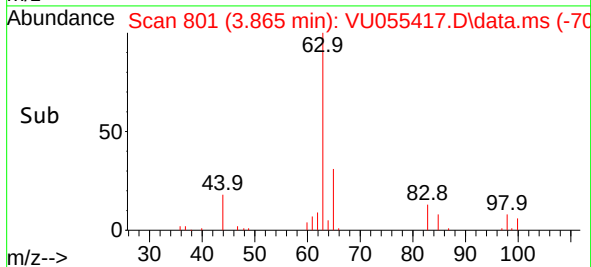
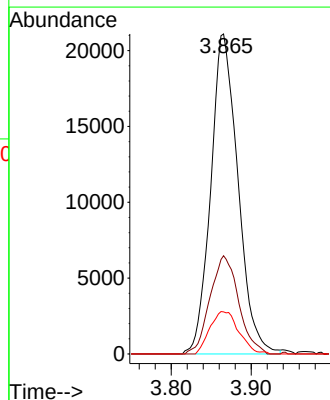
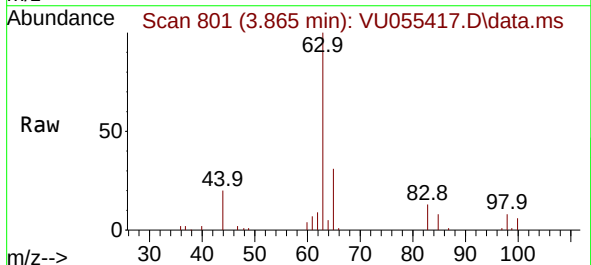
Instrument :
MSVOA_U
ClientSampleId :
BH4P4

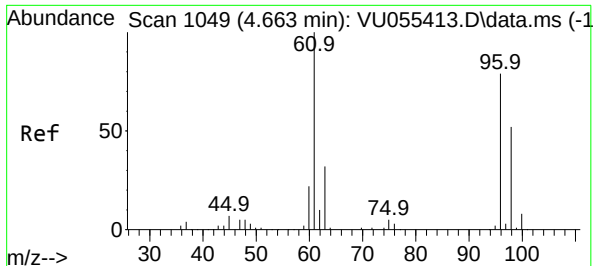
Tgt Ion: 96 Resp: 6064
Ion Ratio Lower Upper
96 100
61 125.8 94.6 175.6
98 53.9 45.7 84.9



#19
1,1-Dichloroethane
Concen: 1.571 ug/L
RT: 3.865 min Scan# 801
Delta R.T. -0.000 min
Lab File: VU055417.D
Acq: 20 Sep 2023 11:55

Tgt Ion: 63 Resp: 49868
Ion Ratio Lower Upper
63 100
65 30.7 22.0 41.0
83 13.1 10.1 18.9





#22

cis-1,2-Dichloroethene

Concen: 81.049 ug/L

RT: 4.660 min Scan# 1048

Delta R.T. -0.003 min

Lab File: VU055417.D

Acq: 20 Sep 2023 11:55

Instrument :

MSVOA_U

ClientSampleId :

BH4P4

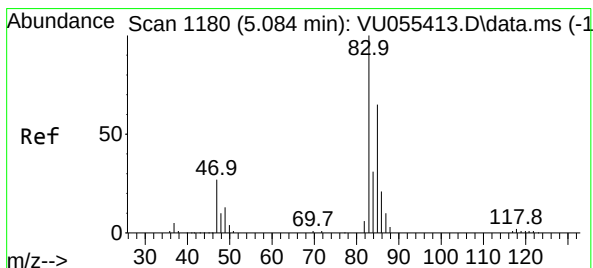
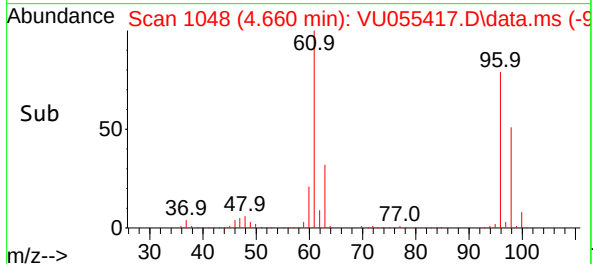
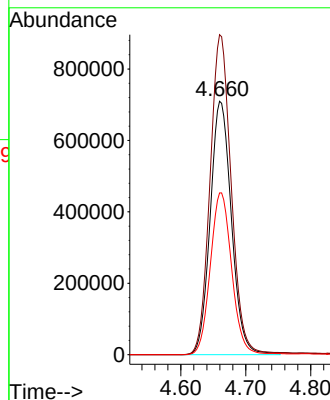
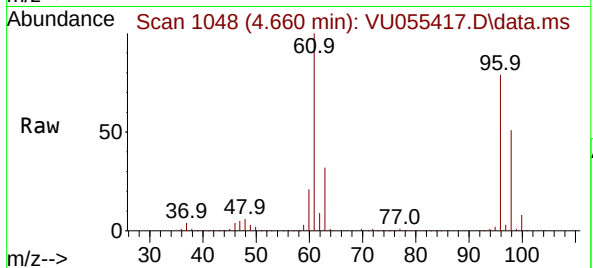
Tgt Ion: 96 Resp: 1613209

Ion Ratio Lower Upper

96 100

61 126.2 87.8 163.2

98 63.8 44.4 82.4



#25

Chloroform

Concen: 0.437 ug/L

RT: 5.084 min Scan# 1180

Delta R.T. -0.000 min

Lab File: VU055417.D

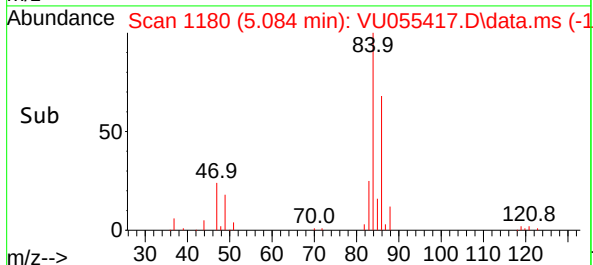
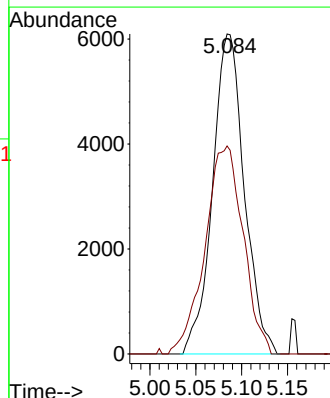
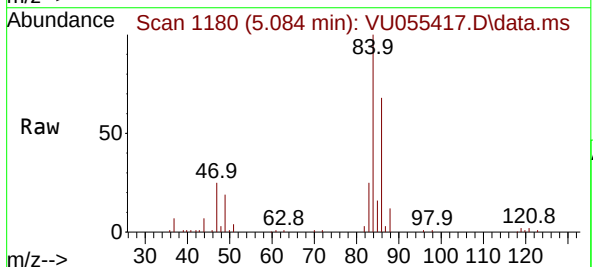
Acq: 20 Sep 2023 11:55

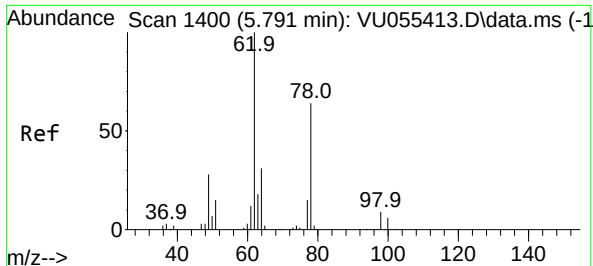
Tgt Ion: 83 Resp: 14677

Ion Ratio Lower Upper

83 100

85 65.0 44.9 83.5

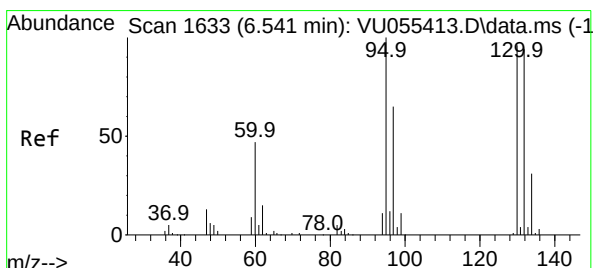
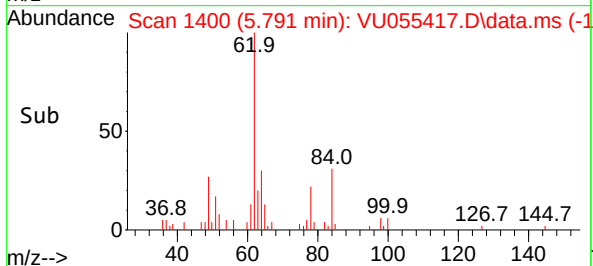
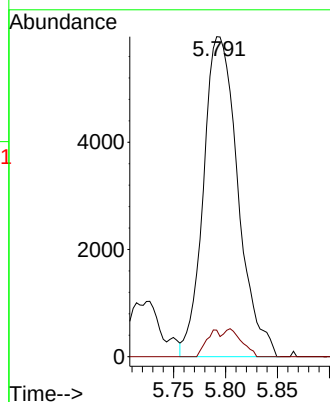
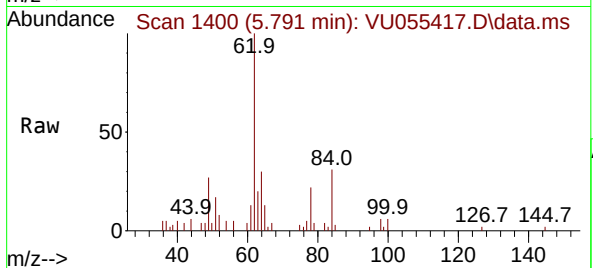




#27
1,2-Dichloroethane
Concen: 0.668 ug/L
RT: 5.791 min Scan# 1400
Delta R.T. -0.000 min
Lab File: VU055417.D
Acq: 20 Sep 2023 11:55

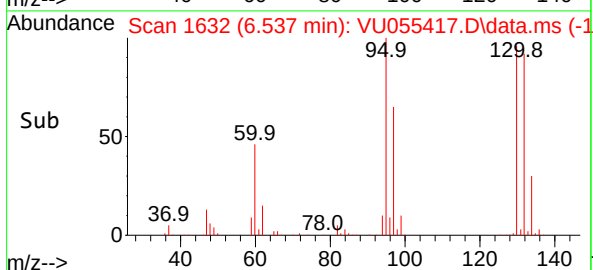
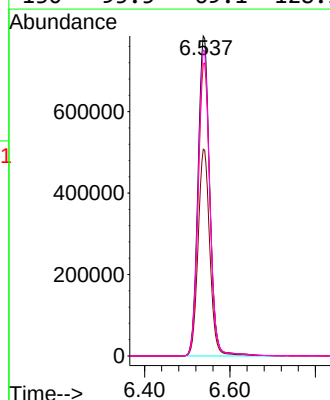
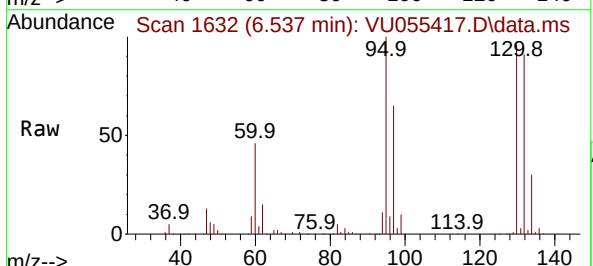
Instrument :
MSVOA_U
ClientSampleId :
BH4P4

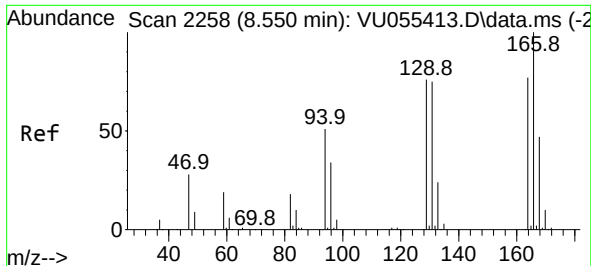
Tgt Ion: 62 Resp: 13780
Ion Ratio Lower Upper
62 100
98 8.3 7.0 10.4



#34
Trichloroethene
Concen: 72.877 ug/L
RT: 6.537 min Scan# 1632
Delta R.T. -0.003 min
Lab File: VU055417.D
Acq: 20 Sep 2023 11:55

Tgt Ion: 95 Resp: 1503297
Ion Ratio Lower Upper
95 100
97 64.6 45.4 84.2
132 91.2 65.2 121.2
130 95.5 69.1 128.3





#47

Tetrachloroethene

Concen: 0.912 ug/L

RT: 8.553 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU055417.D

Acq: 20 Sep 2023 11:55

Instrument :

MSVOA_U

ClientSampleId :

BH4P4

Tgt Ion:164 Resp: 13494

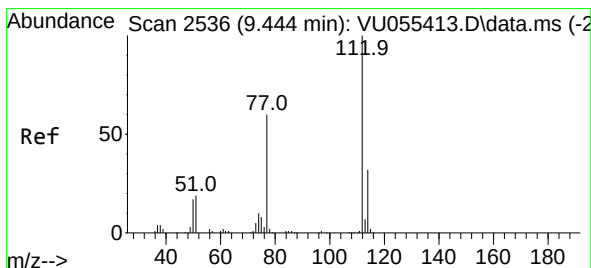
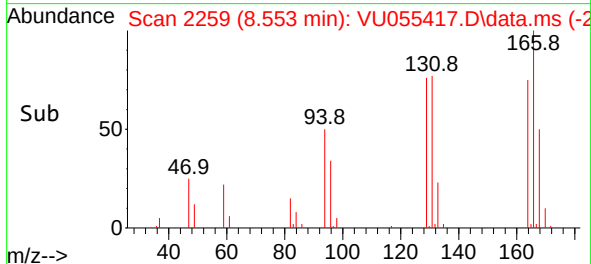
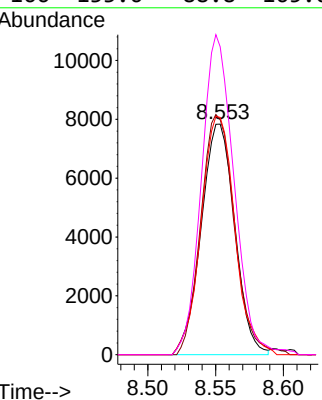
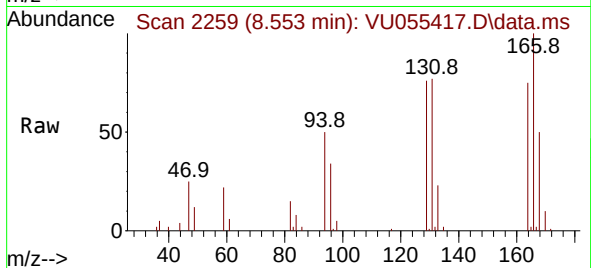
Ion Ratio Lower Upper

164 100

129 101.9 67.4 125.2

131 102.9 66.4 123.2

166 133.6 88.8 165.0



#51

Chlorobenzene

Concen: 0.282 ug/L

RT: 9.444 min Scan# 2536

Delta R.T. -0.000 min

Lab File: VU055417.D

Acq: 20 Sep 2023 11:55

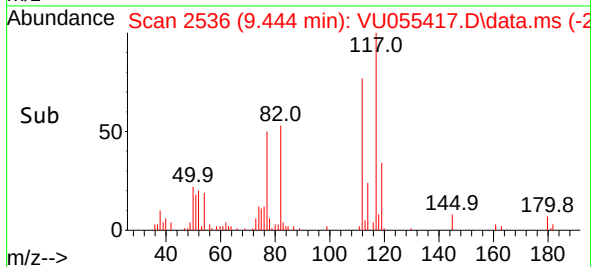
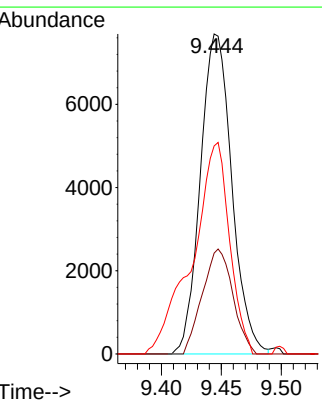
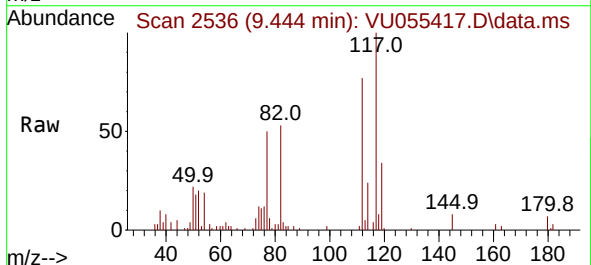
Tgt Ion:112 Resp: 14035

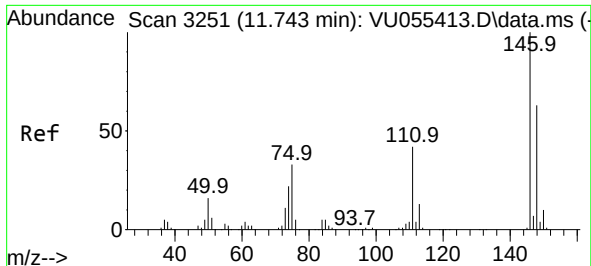
Ion Ratio Lower Upper

112 100

114 31.5 22.0 40.8

77 65.0 46.9 70.3

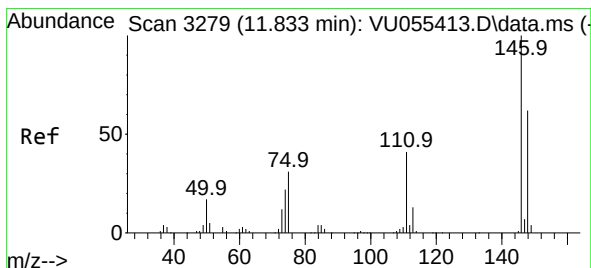
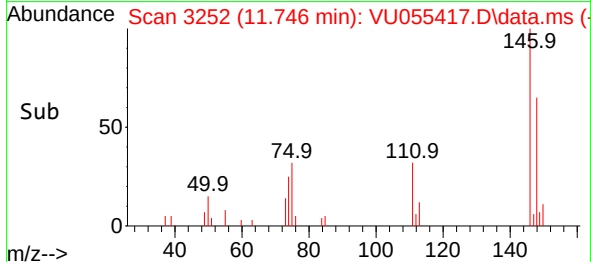
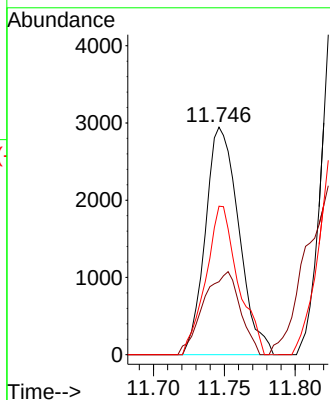
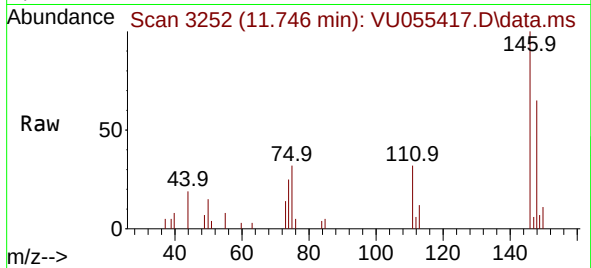




#64
1,3-Dichlorobenzene
Concen: 0.141 ug/L
RT: 11.746 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU055417.D
Acq: 20 Sep 2023 11:55

Instrument :
MSVOA_U
ClientSampleId :
BH4P4

Tgt Ion:146 Resp: 4829
Ion Ratio Lower Upper
146 100
111 32.1 28.8 53.6
148 65.2 44.6 82.8



#65
1,4-Dichlorobenzene
Concen: 0.315 ug/L
RT: 11.833 min Scan# 3279
Delta R.T. -0.000 min
Lab File: VU055417.D
Acq: 20 Sep 2023 11:55

Tgt Ion:146 Resp: 10788
Ion Ratio Lower Upper
146 100
111 50.5 29.0 53.8
148 82.5 45.4 84.4

