

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU070124\
 Data File : VU059717.D
 Acq On : 02 Jul 2024 04:28
 Operator : MD/SY
 Sample : P3121-19
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 02 07:22:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR061724WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Jun 29 01:51:23 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	213514	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	203351	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	107216	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	35486	2.390	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	47.800%
7) Chloroethane-d5	1.907	69	42392	2.968	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	59.400%#
11) 1,1-Dichloroethene-d2	2.560	65	18639	3.026	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.600%
20) 2-Butanone-d5	4.618	46	166565	54.465	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.920%
24) Chloroform-d	5.055	84	112994	3.708	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	74.200%
26) 1,2-Dichloroethane-d4	5.695	65	55447	3.777	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.600%
32) Benzene-d6	5.721	84	224136	4.005	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.000%
36) 1,2-Dichloropropane-d6	6.682	67	71676	4.180	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	83.600%
41) Toluene-d8	7.891	98	208402	4.006	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.200%
43) trans-1,3-Dichloroprop...	8.174	79	22801	4.246	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.000%
46) 2-Hexanone-d5	8.624	63	142501	63.866	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	127.740%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	62920	4.441	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.800%
66) 1,2-Dichlorobenzene-d4	12.187	152	85094	4.459	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	89.200%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	9004	0.419	ug/L	90
12) 1,1-Dichloroethene	2.573	96	8557	0.565	ug/L #	1
13) Acetone	2.592	43	58492	29.485	ug/L	50
14) Carbon disulfide	2.788	76	5056	0.100	ug/L	99
15) Methyl Acetate	2.955	43	18883	3.607	ug/L #	51
16) Methylene chloride	3.039	84	6276	0.350	ug/L #	1
18) trans-1,2-Dichloroethene	3.345	96	124671	7.916	ug/L	91
21) 2-Butanone	4.708	43	30259	9.510	ug/L #	47
22) cis-1,2-Dichloroethene	4.653	96	4751576	273.727	ug/L	96
25) Chloroform	5.116	83	136674	4.468	ug/L #	29
30) Cyclohexane	5.380	56	771959	37.235	ug/L #	90
34) Trichloroethene	6.534	95	364365	21.787	ug/L	96
35) Methylcyclohexane	6.756	83	290623	12.213	ug/L	99
37) 1,2-Dichloropropane	6.756	63	3358	0.210	ug/L #	69
38) Bromodichloromethane	7.151	83	45281	2.270	ug/L #	27
42) Toluene	7.965	91	38602	0.590	ug/L	98
45) 1,1,2-Trichloroethane	8.364	97	37367	3.173	ug/L #	19
47) Tetrachloroethene	8.547	164	287586	22.161	ug/L	96
48) 2-Hexanone	8.675	43	24412	4.619	ug/L #	40

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

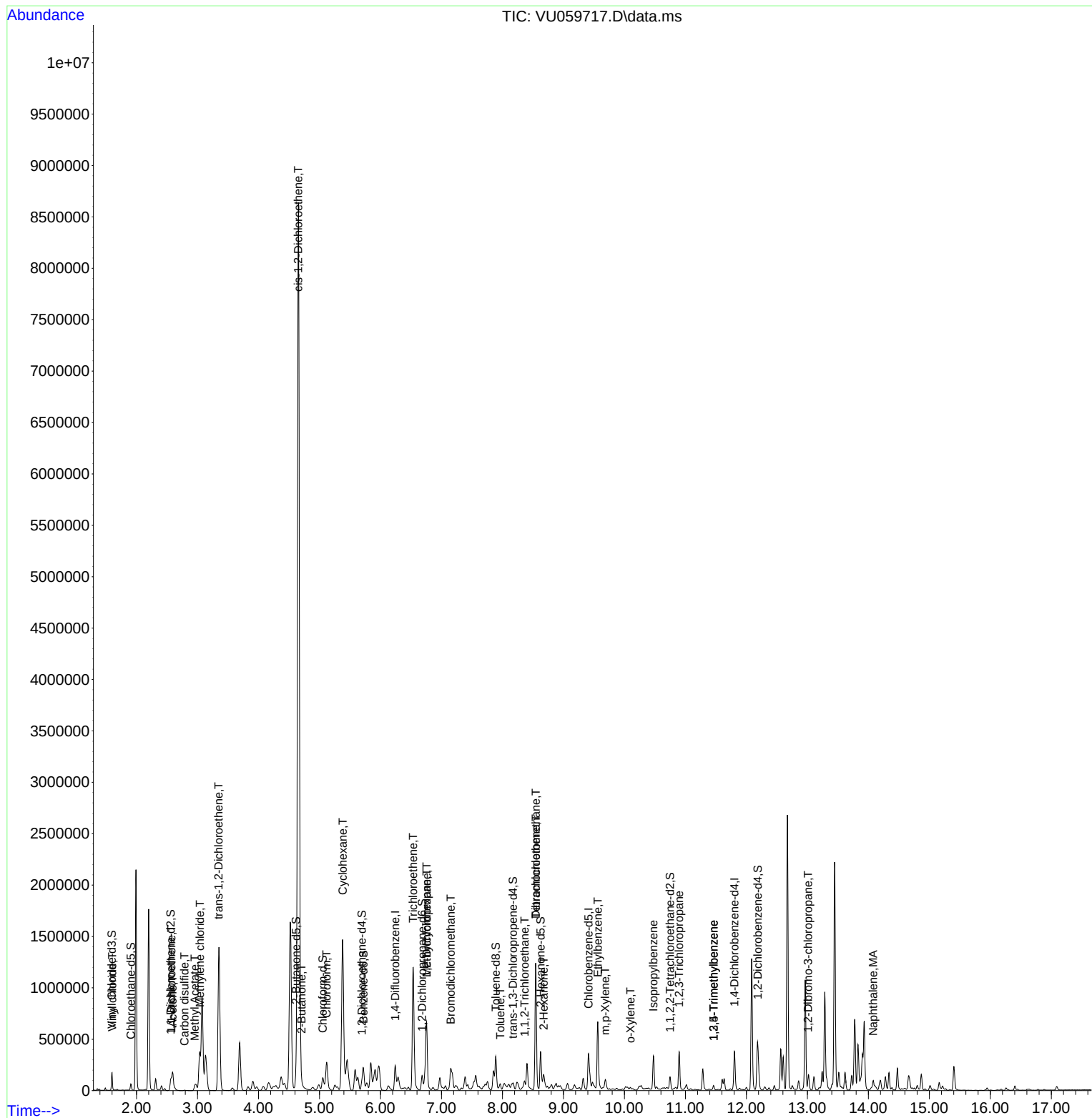
49) Dibromochloromethane	8.547	129	263001	20.161	ug/L #	12
52) Ethylbenzene	9.563	91	466127	6.950	ug/L	96
53) m,p-Xylene	9.685	106	22466	0.872	ug/L	91
54) o-Xylene	10.100	106	4972	0.203	ug/L	96
60) Isopropylbenzene	10.476	105	203792	3.077	ug/L	98
61) 1,2,3-Trichloropropane	10.897	75	1584	0.160	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.463	105	23567	0.449	ug/L	95
63) 1,2,4-Trimethylbenzene	11.463	105	23567	0.470	ug/L	99
68) 1,2-Dibromo-3-chloropr...	13.013	75	951	0.492	ug/L #	6
71) Naphthalene	14.080	128	79448	2.902	ug/L	95

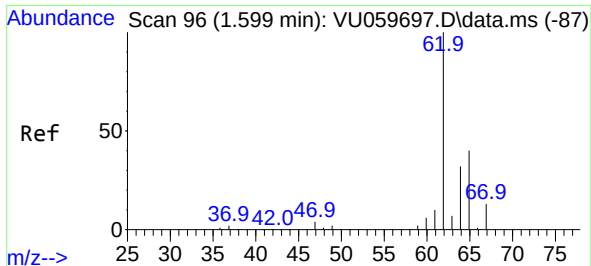
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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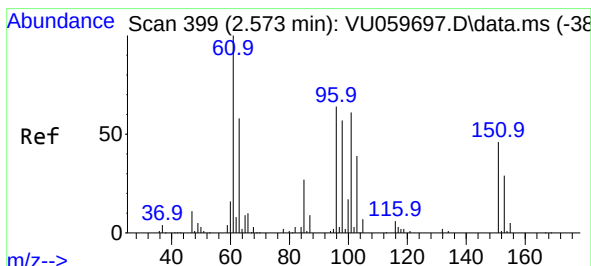
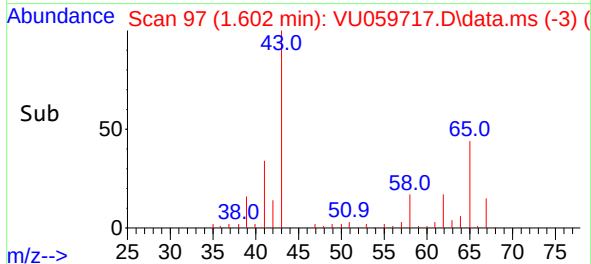
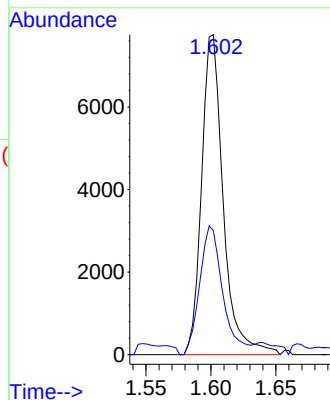
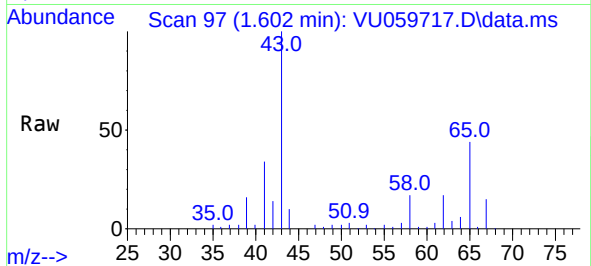




#5
 Vinyl chloride
 Concen: 0.419 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. 0.003 min
 Lab File: VU059717.D
 Acq: 02 Jul 2024 04:28

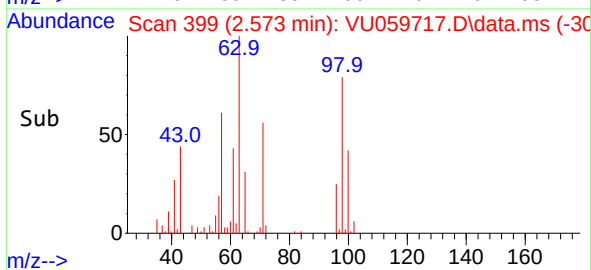
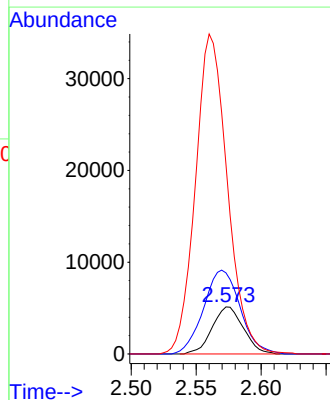
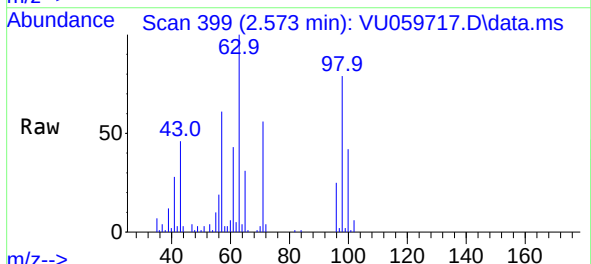
Instrument :
 MSVOA_U
 ClientSampleId :

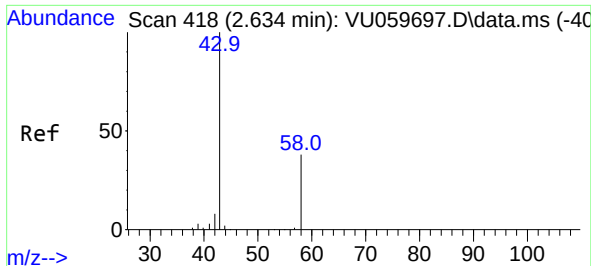
Tgt Ion: 62 Resp: 9004
 Ion Ratio Lower Upper
 62 100
 64 38.8 23.1 42.9



#12
 1,1-Dichloroethene
 Concen: 0.565 ug/L
 RT: 2.573 min Scan# 399
 Delta R.T. 0.000 min
 Lab File: VU059717.D
 Acq: 02 Jul 2024 04:28

Tgt Ion: 96 Resp: 8557
 Ion Ratio Lower Upper
 96 100
 61 172.7 122.9 228.3
 63 403.4 80.4 149.4#





#13

Acetone

Concen: 29.485 ug/L

RT: 2.592 min Scan# 405

Delta R.T. -0.042 min

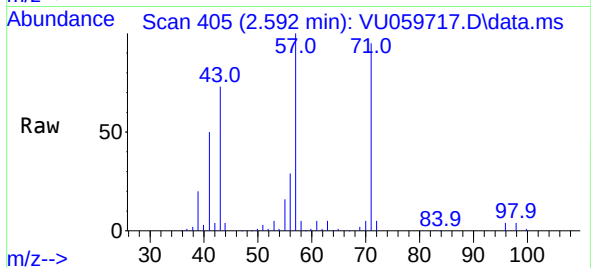
Lab File: VU059717.D

Acq: 02 Jul 2024 04:28

Instrument :

MSVOA_U

ClientSampleId :

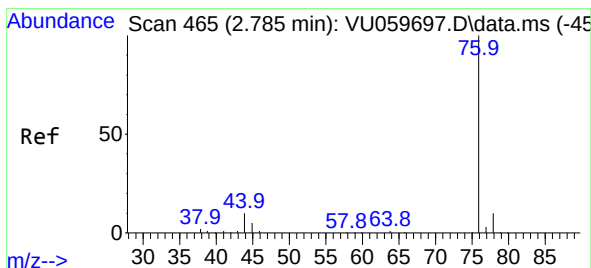
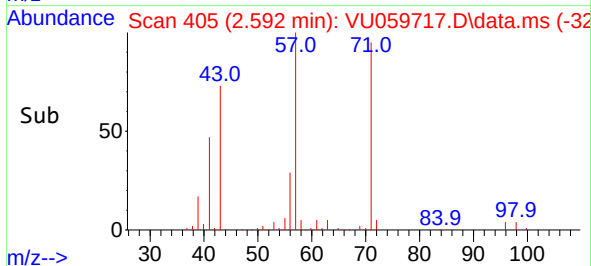
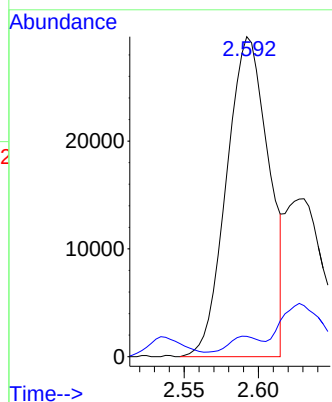


Tgt Ion: 43 Resp: 58492

Ion Ratio Lower Upper

43 100

58 5.3 0.0 68.0



#14

Carbon disulfide

Concen: 0.100 ug/L

RT: 2.788 min Scan# 466

Delta R.T. 0.003 min

Lab File: VU059717.D

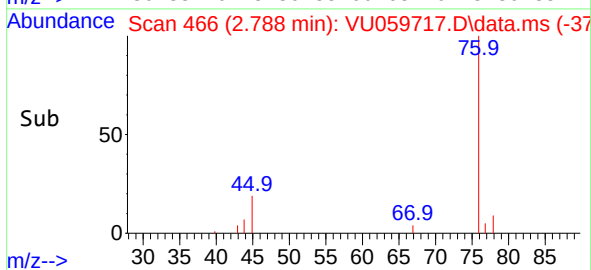
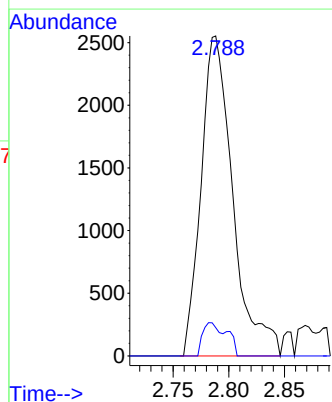
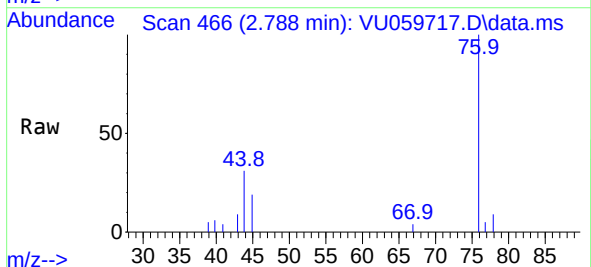
Acq: 02 Jul 2024 04:28

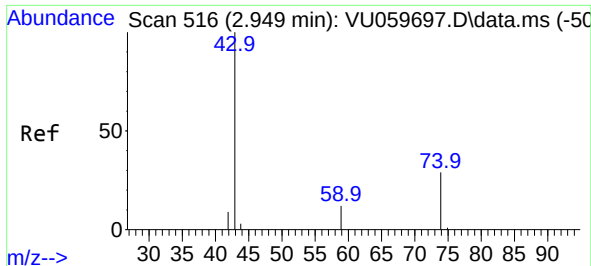
Tgt Ion: 76 Resp: 5056

Ion Ratio Lower Upper

76 100

78 8.9 7.3 10.9

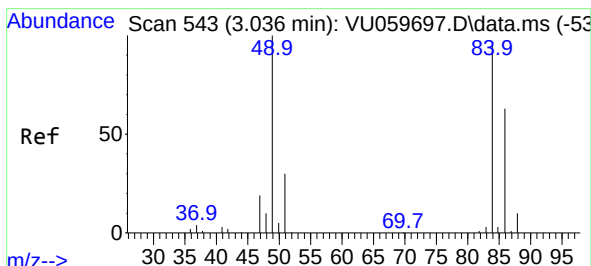
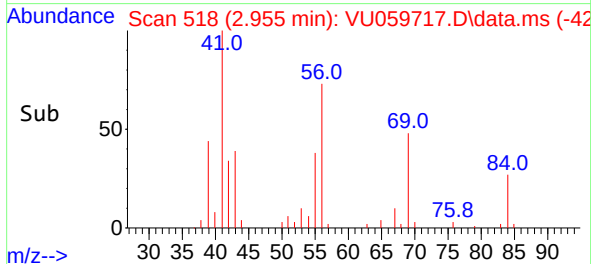
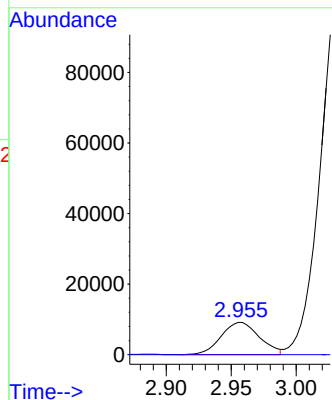
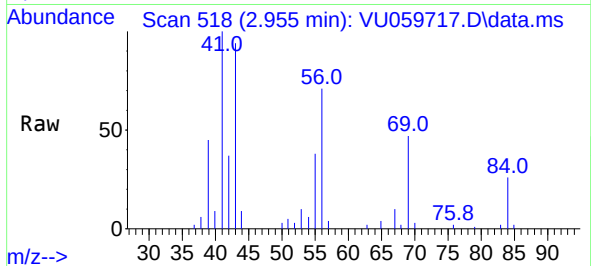




#15
Methyl Acetate
Concen: 3.607 ug/L
RT: 2.955 min Scan# 516
Delta R.T. 0.006 min
Lab File: VU059717.D
Acq: 02 Jul 2024 04:28

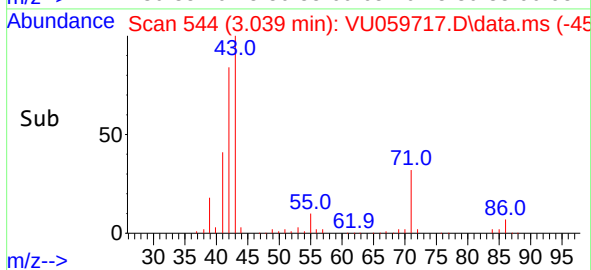
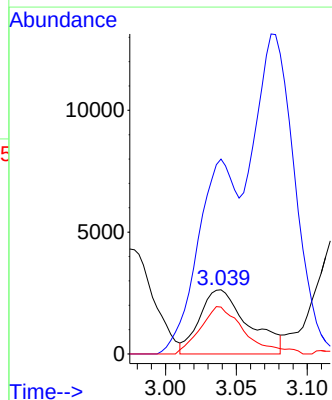
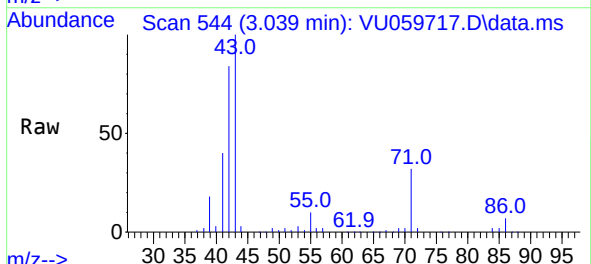
Instrument :
MSVOA_U
ClientSampleId :

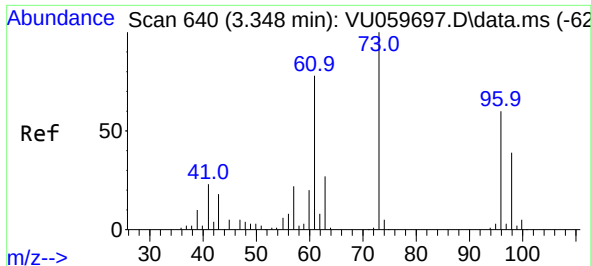
Tgt Ion: 43 Resp: 18883
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#16
Methylene chloride
Concen: 0.350 ug/L
RT: 3.039 min Scan# 544
Delta R.T. 0.000 min
Lab File: VU059717.D
Acq: 02 Jul 2024 04:28

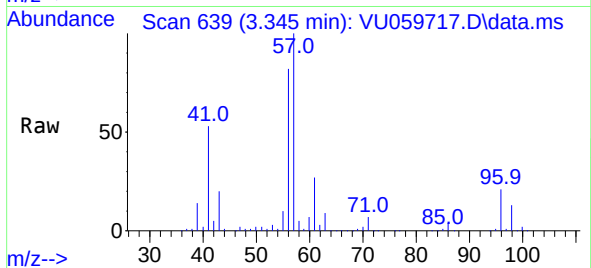
Tgt Ion: 84 Resp: 6276
Ion Ratio Lower Upper
84 100
86 303.7 42.1 78.1#
49 73.0 80.6 149.8#



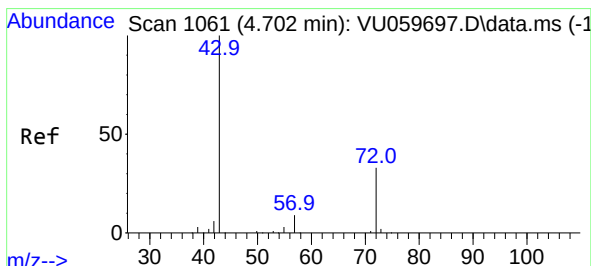
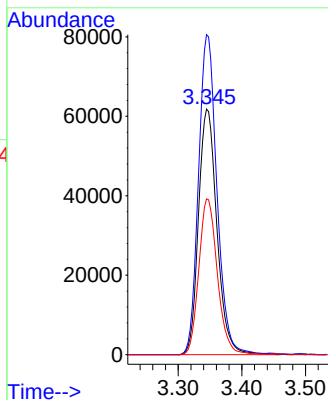
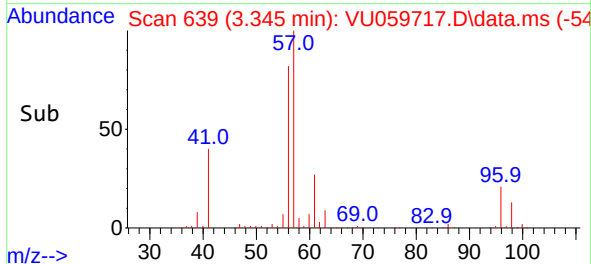


#18
trans-1,2-Dichloroethene
Concen: 7.916 ug/L
RT: 3.345 min Scan# 61
Delta R.T. -0.003 min
Lab File: VU059717.D
Acq: 02 Jul 2024 04:28

Instrument :
MSVOA_U
ClientSampleId :

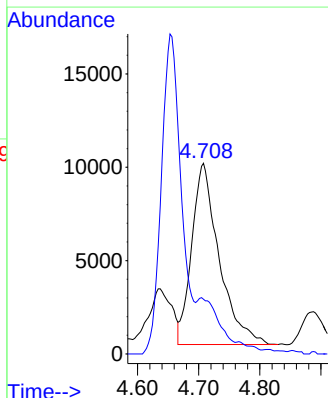
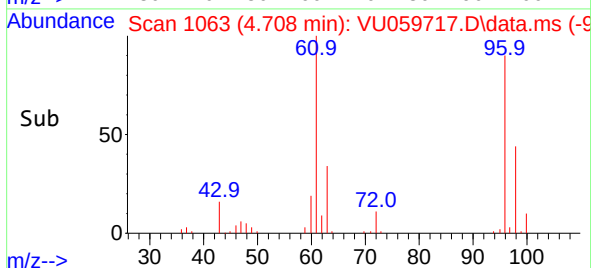
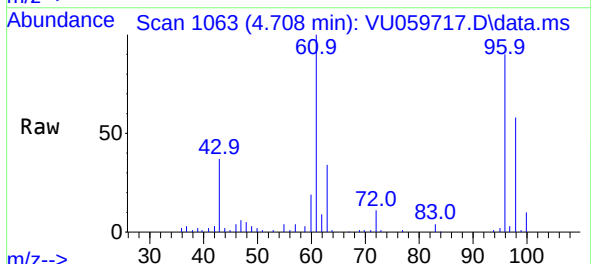


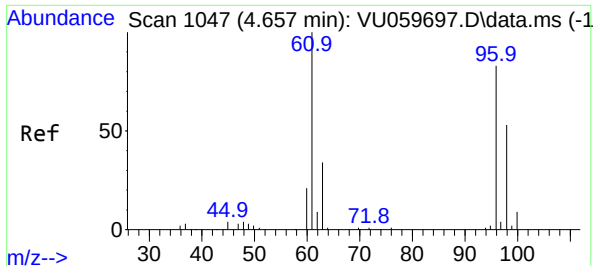
Tgt Ion: 96 Resp: 124671
Ion Ratio Lower Upper
96 100
61 130.3 101.8 189.0
98 63.5 43.3 80.5



#21
2-Butanone
Concen: 9.510 ug/L
RT: 4.708 min Scan# 1063
Delta R.T. 0.010 min
Lab File: VU059717.D
Acq: 02 Jul 2024 04:28

Tgt Ion: 43 Resp: 30259
Ion Ratio Lower Upper
43 100
72 0.0 13.8 41.4#

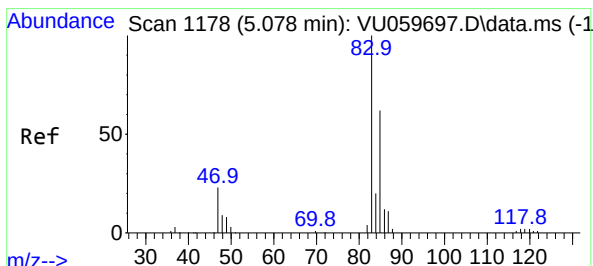
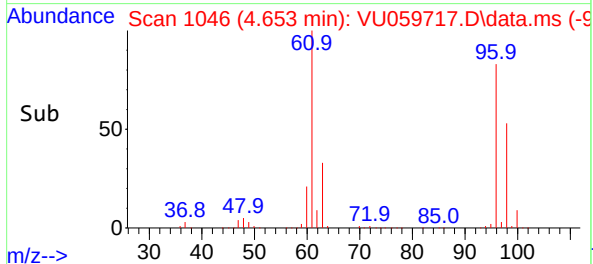
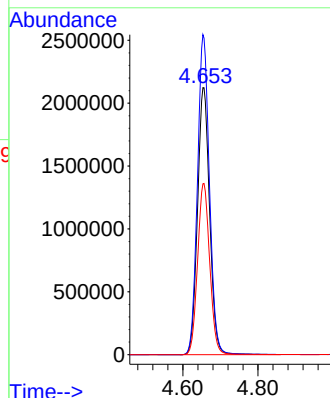
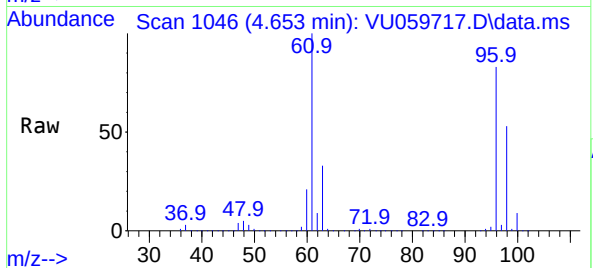




#22
cis-1,2-Dichloroethene
Concen: 273.727 ug/L
RT: 4.653 min Scan# 1190
Delta R.T. -0.006 min
Lab File: VU059717.D
Acq: 02 Jul 2024 04:28

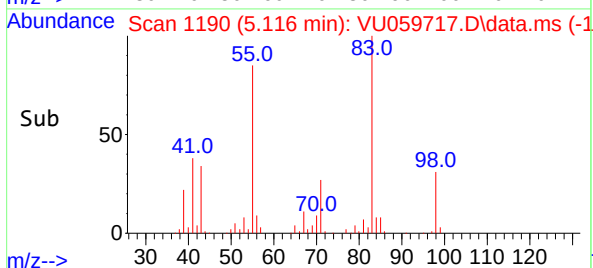
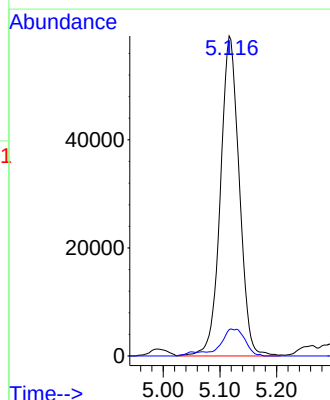
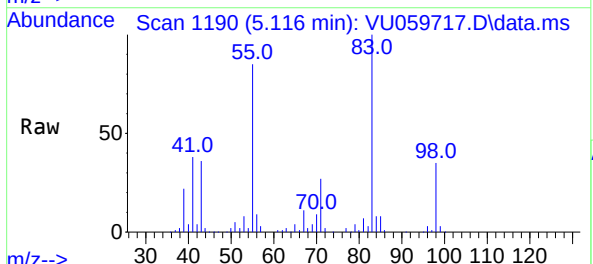
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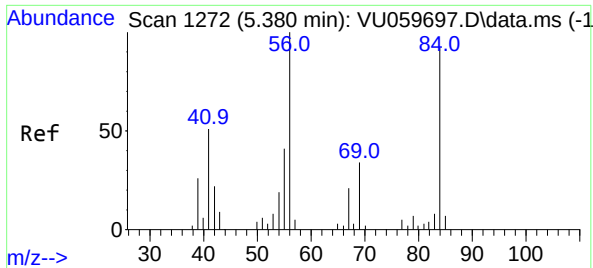
Tgt Ion: 96 Resp: 4751576
Ion Ratio Lower Upper
96 100
61 119.8 87.4 162.2
98 64.0 42.3 78.5



#25
Chloroform
Concen: 4.468 ug/L
RT: 5.116 min Scan# 1190
Delta R.T. 0.039 min
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Acq: 02 Jul 2024 04:28

Tgt Ion: 83 Resp: 136674
Ion Ratio Lower Upper
83 100
85 8.3 44.7 83.1#

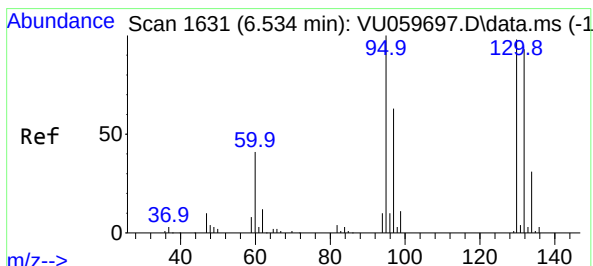
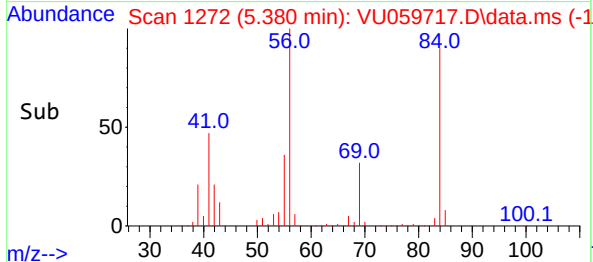
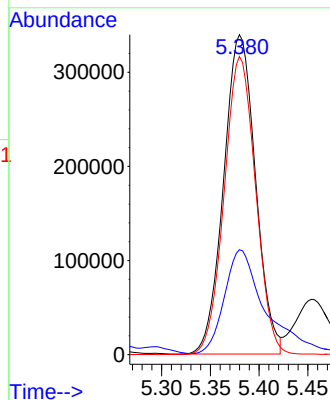
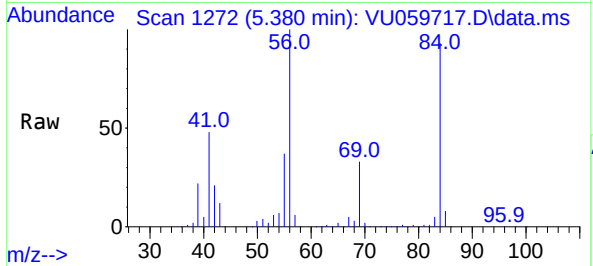




#30
Cyclohexane
Concen: 37.235 ug/L
RT: 5.380 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU059717.D
Acq: 02 Jul 2024 04:28

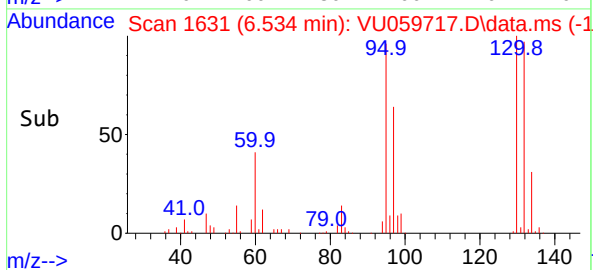
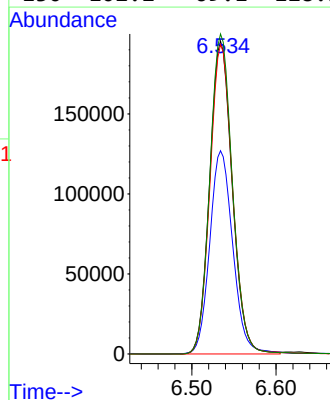
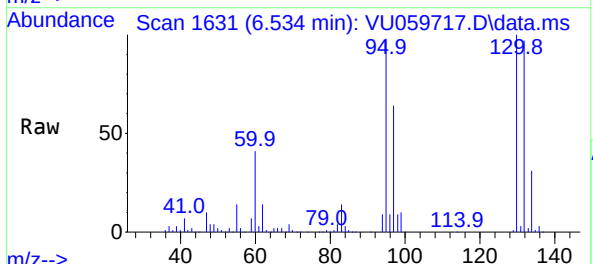
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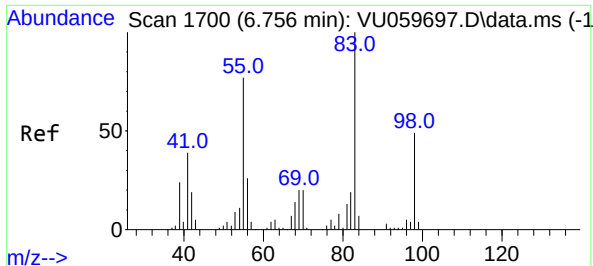
Tgt Ion: 56 Resp: 771959
Ion Ratio Lower Upper
56 100
69 43.8 24.8 37.2#
84 92.2 69.8 104.8



#34
Trichloroethene
Concen: 21.787 ug/L
RT: 6.534 min Scan# 1631
Delta R.T. -0.003 min
Lab File: VU059717.D
Acq: 02 Jul 2024 04:28

Tgt Ion: 95 Resp: 364365
Ion Ratio Lower Upper
95 100
97 64.9 45.3 84.1
132 98.8 64.0 119.0
130 102.2 69.1 128.3





#35

Methylcyclohexane

Concen: 12.213 ug/L

RT: 6.756 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VU059717.D

Acq: 02 Jul 2024 04:28

Instrument :

MSVOA_U

ClientSampleId :

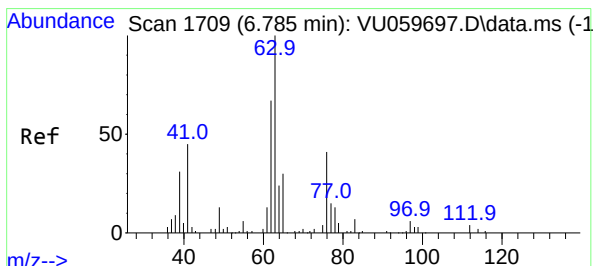
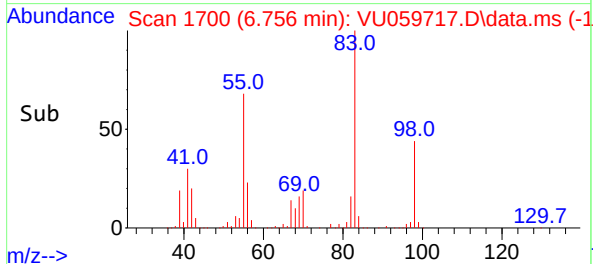
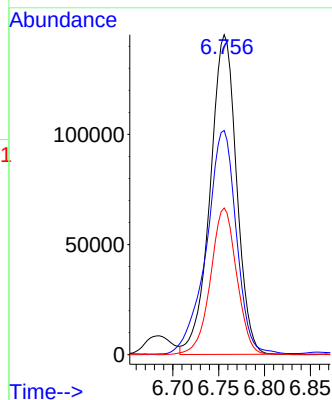
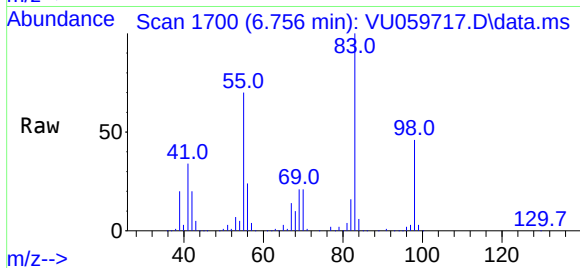
Tgt Ion: 83 Resp: 290623

Ion Ratio Lower Upper

83 100

55 79.3 62.7 94.1

98 45.7 35.4 53.0



#37

1,2-Dichloropropane

Concen: 0.210 ug/L

RT: 6.756 min Scan# 1700

Delta R.T. -0.029 min

Lab File: VU059717.D

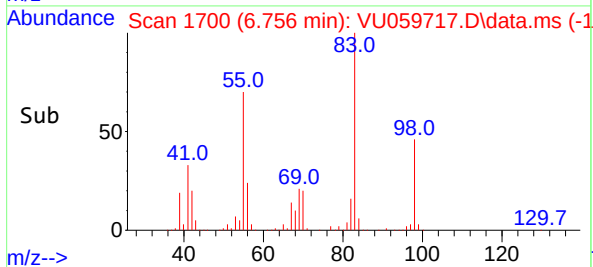
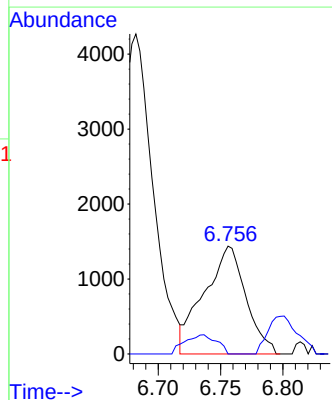
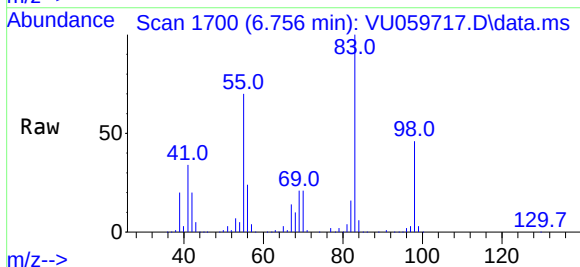
Acq: 02 Jul 2024 04:28

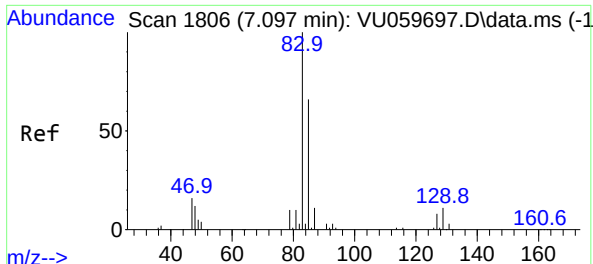
Tgt Ion: 63 Resp: 3358

Ion Ratio Lower Upper

63 100

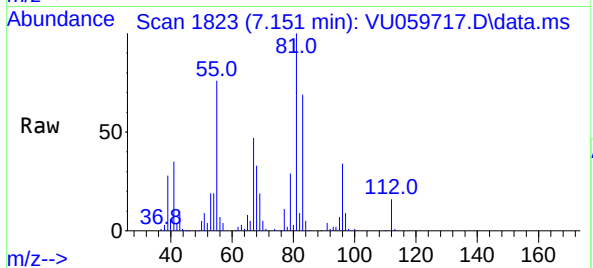
112 13.5 2.6 3.8#



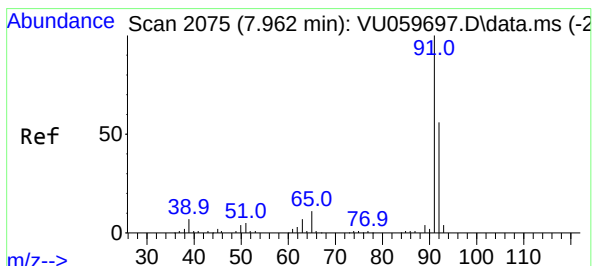
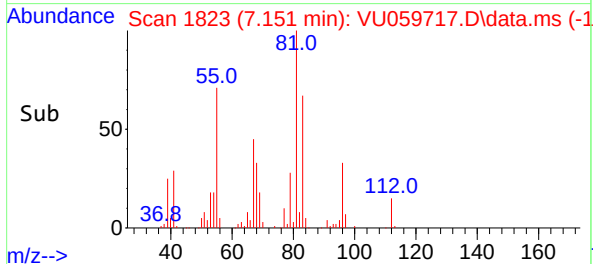
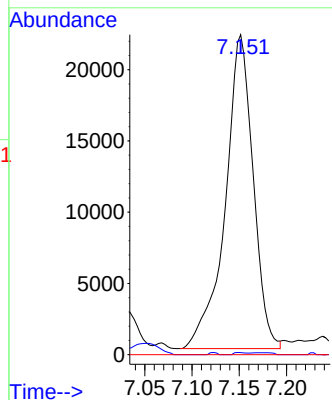


#38
Bromodichloromethane
Concen: 2.270 ug/L
RT: 7.151 min Scan# 11
Delta R.T. 0.051 min
Lab File: VU059717.D
Acq: 02 Jul 2024 04:28

Instrument :
MSVOA_U
ClientSampleId :

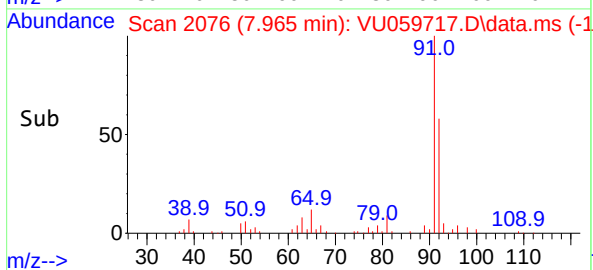
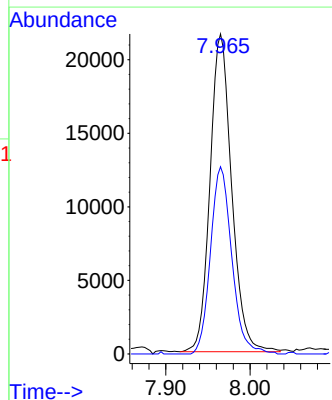
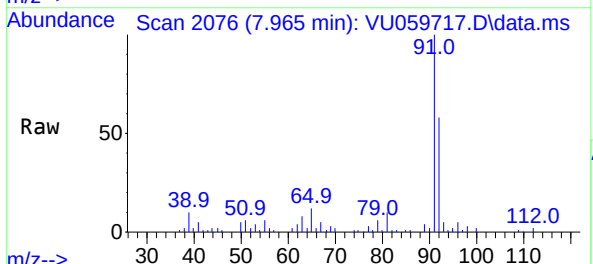


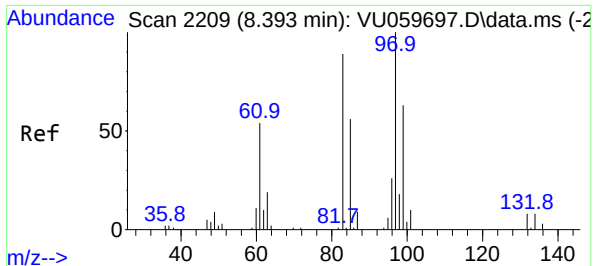
Tgt Ion: 83 Resp: 45281
Ion Ratio Lower Upper
83 100
85 0.7 42.7 79.3#
127 0.0 6.1 9.1#



#42
Toluene
Concen: 0.590 ug/L
RT: 7.965 min Scan# 2076
Delta R.T. 0.003 min
Lab File: VU059717.D
Acq: 02 Jul 2024 04:28

Tgt Ion: 91 Resp: 38602
Ion Ratio Lower Upper
91 100
92 58.5 39.7 73.7





#45

1,1,2-Trichloroethane

Concen: 3.173 ug/L

RT: 8.364 min Scan# 21

Delta R.T. -0.029 min

Lab File: VU059717.D

Acq: 02 Jul 2024 04:28

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 97 Resp: 37367

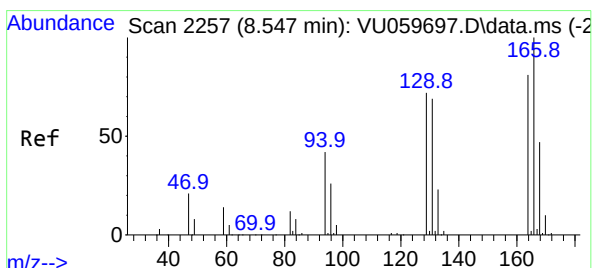
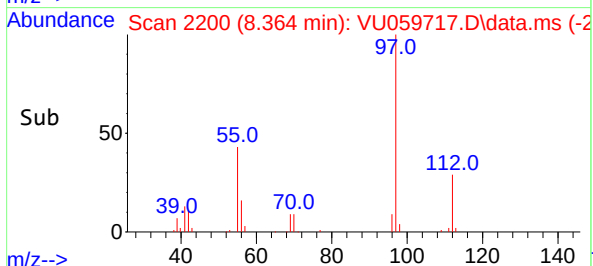
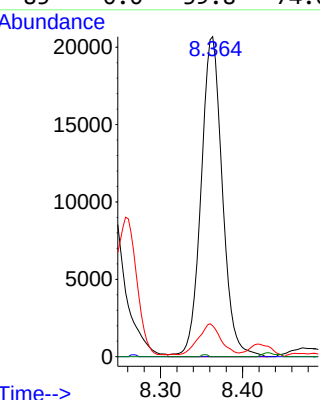
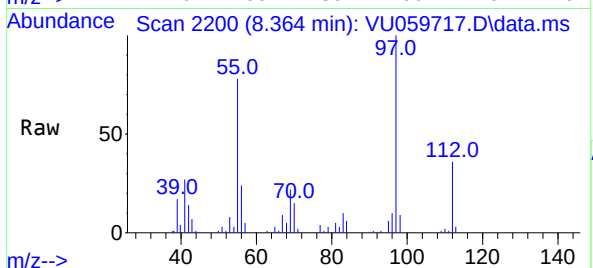
Ion Ratio Lower Upper

97 100

99 0.0 43.3 80.3#

83 9.7 62.3 115.7#

85 0.0 39.8 74.0#



#47

Tetrachloroethene

Concen: 22.161 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. 0.000 min

Lab File: VU059717.D

Acq: 02 Jul 2024 04:28

Tgt Ion:164 Resp: 287586

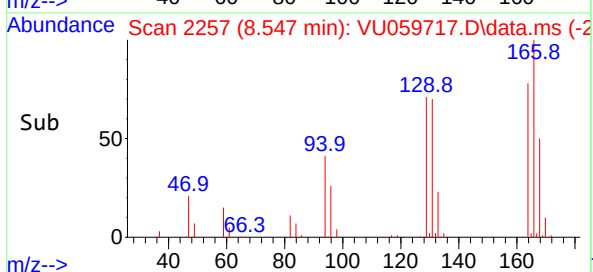
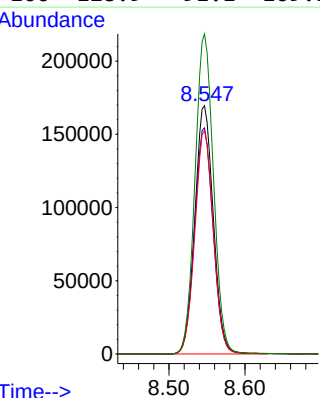
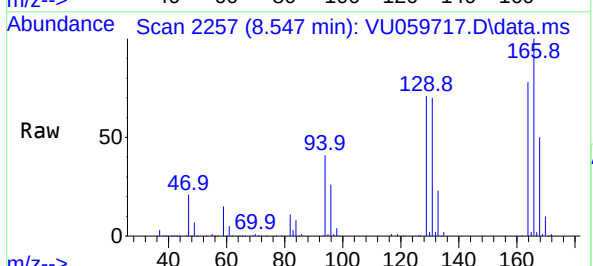
Ion Ratio Lower Upper

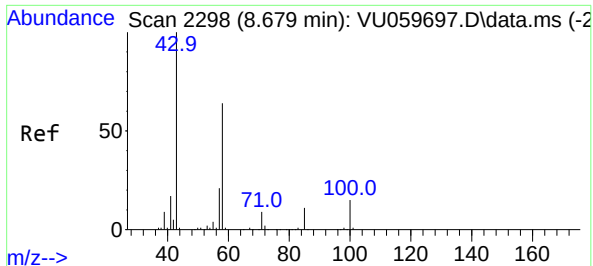
164 100

129 91.1 70.8 131.4

131 90.1 64.8 120.3

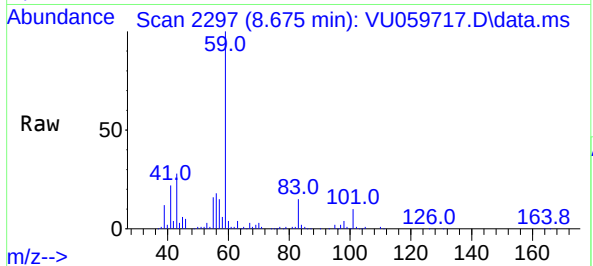
166 128.9 91.1 169.1



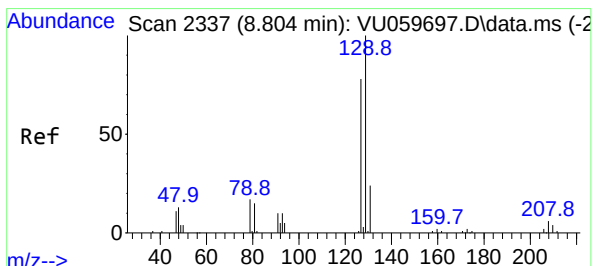
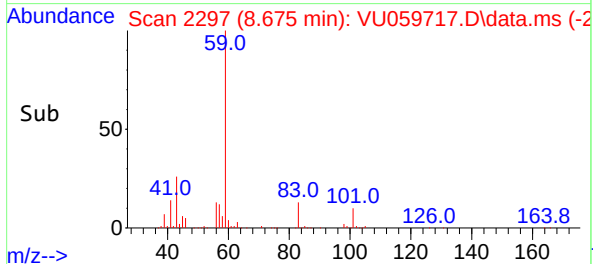
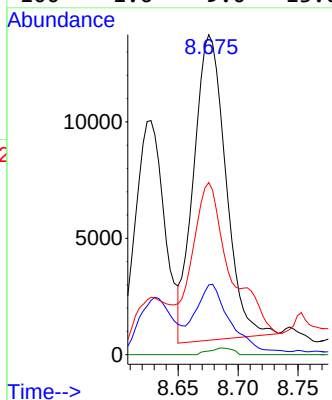


#48
2-Hexanone
Concen: 4.619 ug/L
RT: 8.675 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU059717.D
Acq: 02 Jul 2024 04:28

Instrument :
MSVOA_U
ClientSampleId :

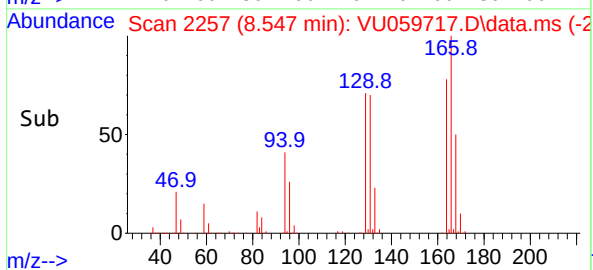
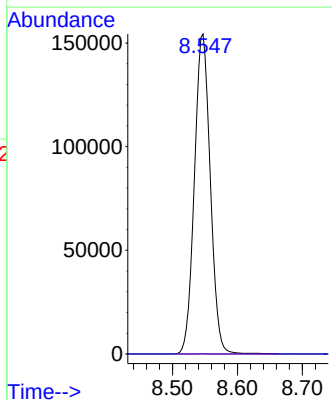
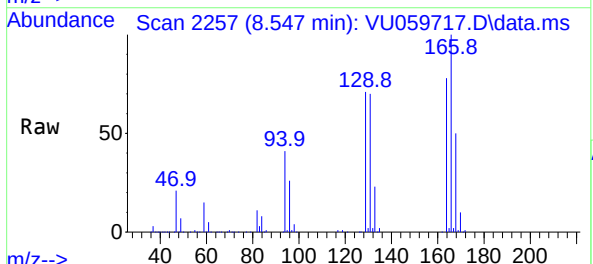


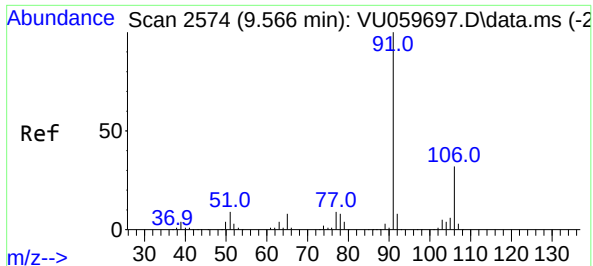
Tgt Ion: 43 Resp: 24412
Ion Ratio Lower Upper
43 100
58 23.5 46.1 69.1#
57 73.9 15.5 23.3#
100 1.6 9.0 13.6#



#49
Dibromochloromethane
Concen: 20.161 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. -0.254 min
Lab File: VU059717.D
Acq: 02 Jul 2024 04:28

Tgt Ion: 129 Resp: 263001
Ion Ratio Lower Upper
129 100
127 0.1 52.5 97.5#





#52

Ethylbenzene

Concen: 6.950 ug/L

RT: 9.563 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU059717.D

Acq: 02 Jul 2024 04:28

Instrument :

MSVOA_U

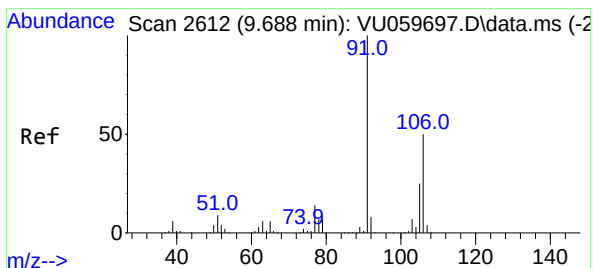
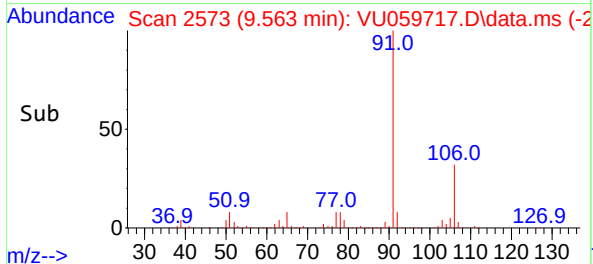
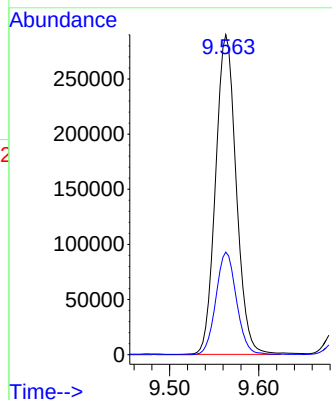
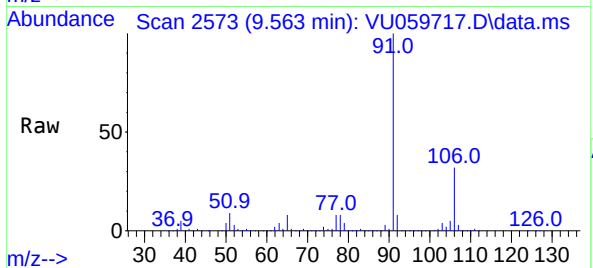
ClientSampleId :

Tgt Ion: 91 Resp: 466127

Ion Ratio Lower Upper

91 100

106 32.1 20.9 38.7



#53

m,p-Xylene

Concen: 0.872 ug/L

RT: 9.685 min Scan# 2611

Delta R.T. -0.003 min

Lab File: VU059717.D

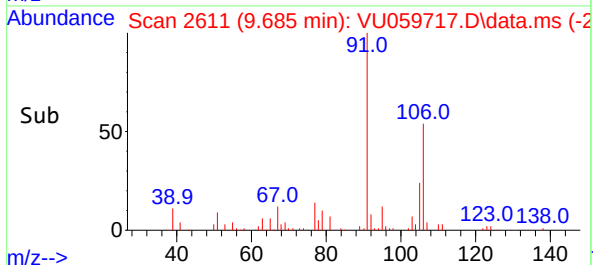
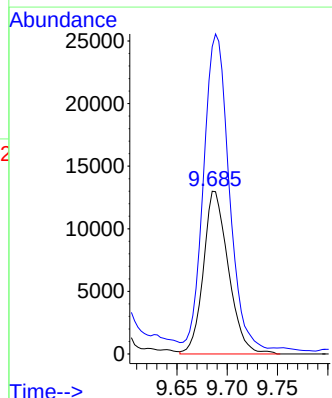
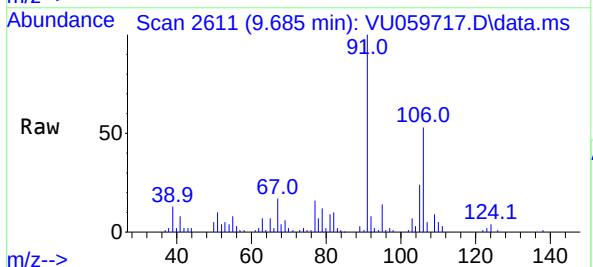
Acq: 02 Jul 2024 04:28

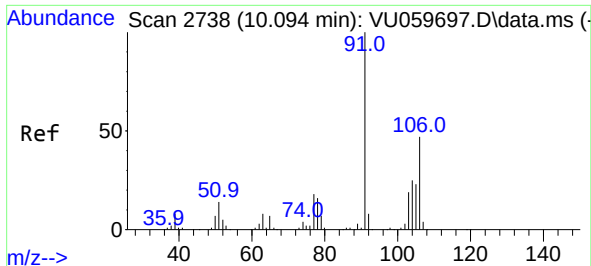
Tgt Ion:106 Resp: 22466

Ion Ratio Lower Upper

106 100

91 188.8 142.0 263.8

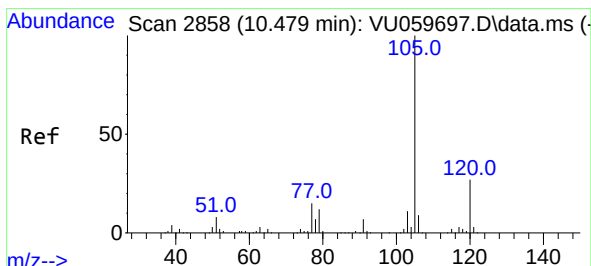
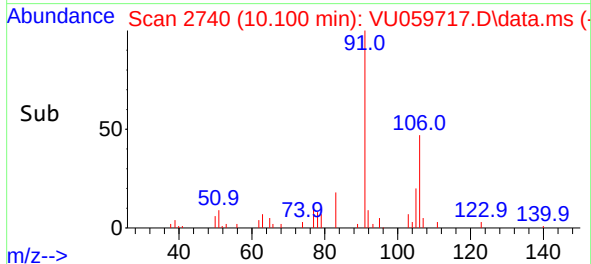
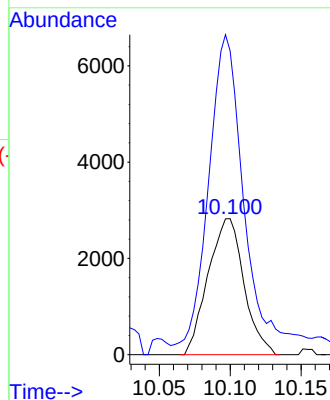
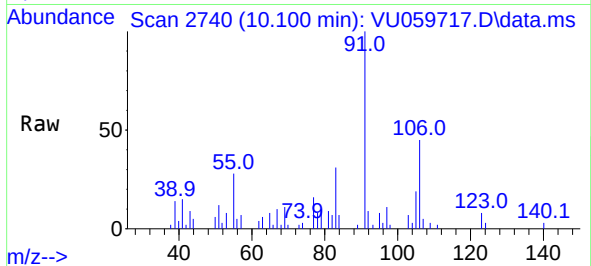




#54
o-Xylene
Concen: 0.203 ug/L
RT: 10.100 min Scan# 21
Delta R.T. 0.006 min
Lab File: VU059717.D
Acq: 02 Jul 2024 04:28

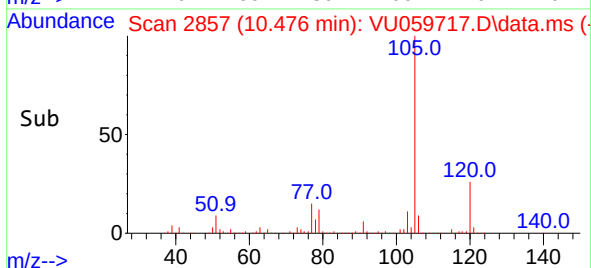
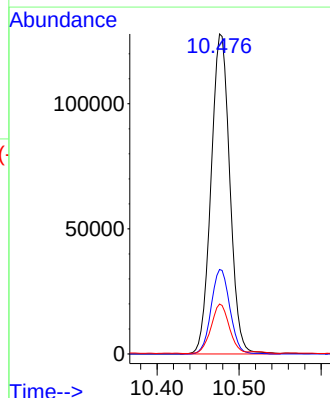
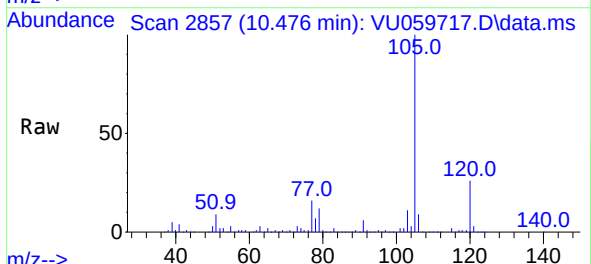
Instrument :
MSVOA_U
ClientSampleId :

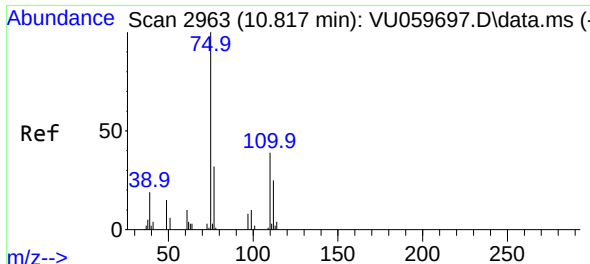
Tgt Ion:106 Resp: 4972
Ion Ratio Lower Upper
106 100
91 223.4 151.6 281.6



#60
Isopropylbenzene
Concen: 3.077 ug/L
RT: 10.476 min Scan# 2857
Delta R.T. -0.003 min
Lab File: VU059717.D
Acq: 02 Jul 2024 04:28

Tgt Ion:105 Resp: 203792
Ion Ratio Lower Upper
105 100
120 26.3 20.6 31.0
77 15.0 12.8 19.2

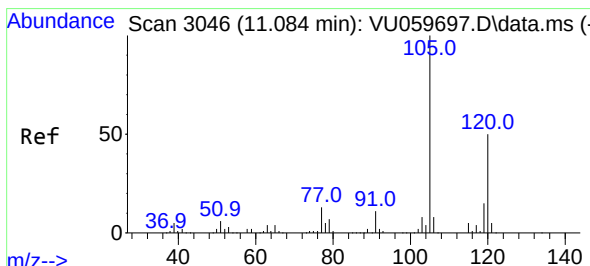
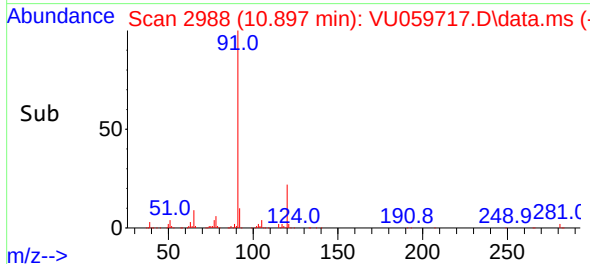
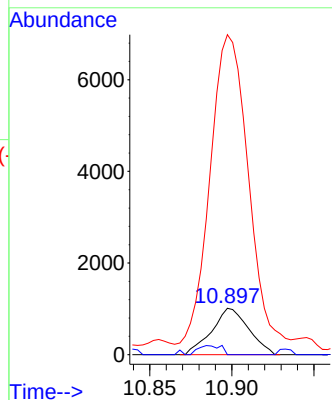
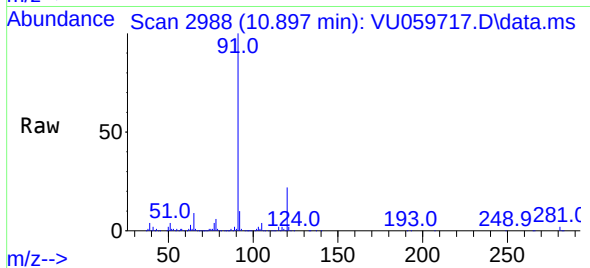




#61
1,2,3-Trichloropropane
Concen: 0.160 ug/L
RT: 10.897 min Scan# 2963
Delta R.T. 0.080 min
Lab File: VU059717.D
Acq: 02 Jul 2024 04:28

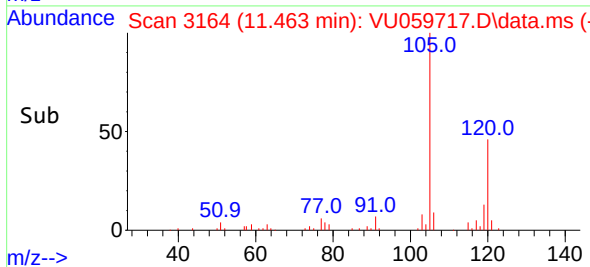
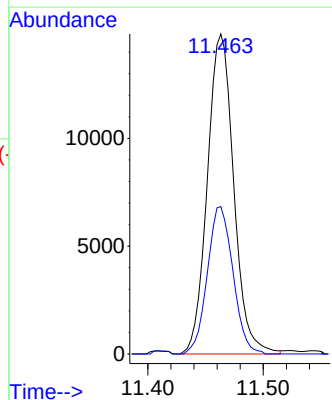
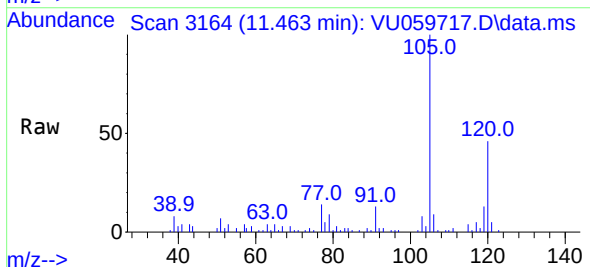
Instrument :
MSVOA_U
ClientSampleId :

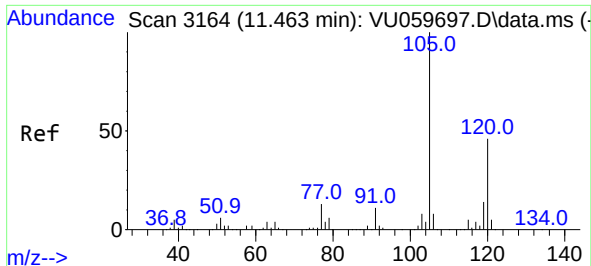
Tgt Ion	Ratio	Lower	Upper
75	100		
110	0.0	27.1	40.7#
77	680.5	25.4	38.2#



#62
1,3,5-Trimethylbenzene
Concen: 0.449 ug/L
RT: 11.463 min Scan# 3164
Delta R.T. 0.379 min
Lab File: VU059717.D
Acq: 02 Jul 2024 04:28

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.7	38.2	57.4

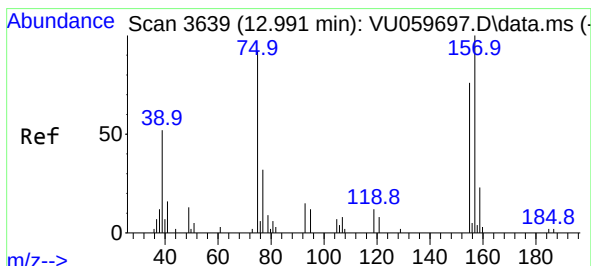
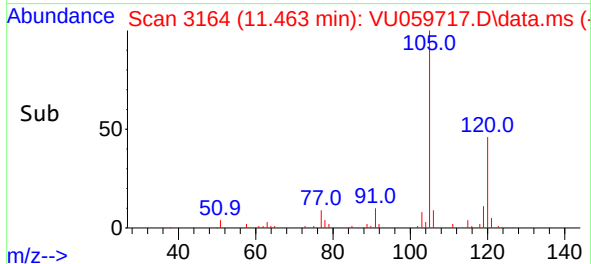
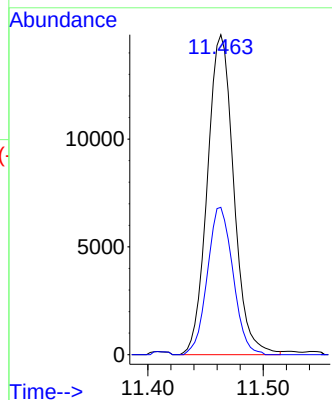
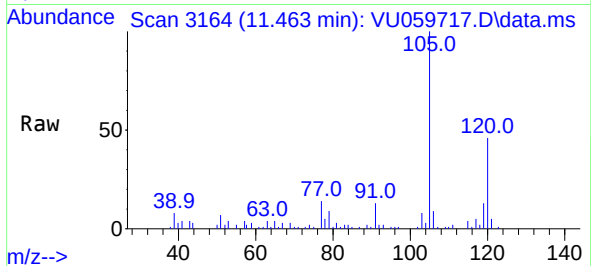




#63
1,2,4-Trimethylbenzene
Concen: 0.470 ug/L
RT: 11.463 min Scan# 3164
Delta R.T. 0.000 min
Lab File: VU059717.D
Acq: 02 Jul 2024 04:28

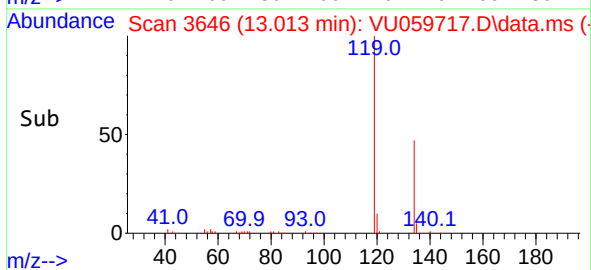
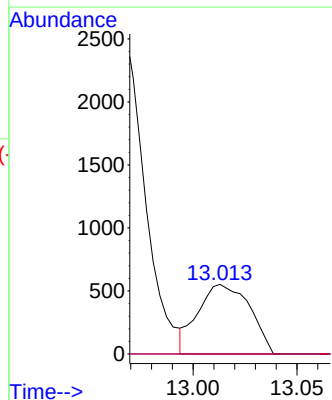
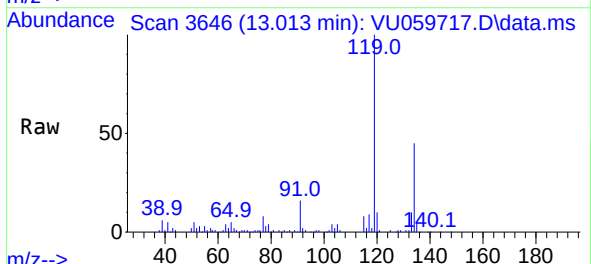
Instrument :
MSVOA_U
ClientSampleId :

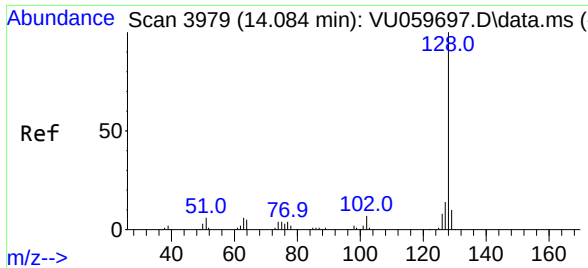
Tgt Ion:105 Resp: 23567
Ion Ratio Lower Upper
105 100
120 44.7 35.4 53.0



#68
1,2-Dibromo-3-chloropropane
Concen: 0.492 ug/L
RT: 13.013 min Scan# 3646
Delta R.T. 0.022 min
Lab File: VU059717.D
Acq: 02 Jul 2024 04:28

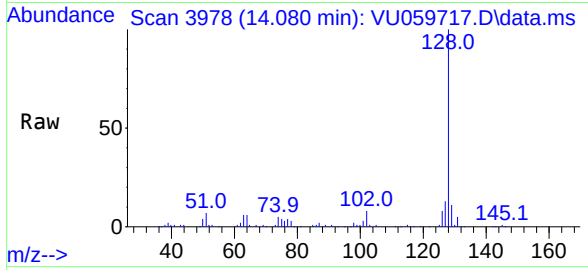
Tgt Ion: 75 Resp: 951
Ion Ratio Lower Upper
75 100
155 0.0 58.2 87.2#
157 0.0 80.0 120.0#





#71
Naphthalene
Concen: 2.902 ug/L
RT: 14.080 min Scan# 3978
Delta R.T. -0.003 min
Lab File: VU059717.D
Acq: 02 Jul 2024 04:28

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:128 Resp: 79448

Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.2	12.4
127	15.4	10.2	15.4

