

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121623\
 Data File : VX039233.D
 Acq On : 15 Dec 2023 17:12
 Operator : JC/MD
 Sample : 05844-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 YCHF0

Quant Time: Dec 16 01:51:49 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML120523WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Dec 12 03:50:51 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.757	114	220601	50.000	ug/L	0.00
28) Chlorobenzene-d5	10.055	117	203326	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.018	152	95632	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.368	65	67924	39.256	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.520%
7) Chloroethane-d5	1.666	69	52447	41.009	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	82.020%
11) 1,1-Dichloroethene-d2	2.307	65	36197	47.657	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.320%
21) 2-Butanone-d5	4.446	46	155781	99.462	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	99.460%
24) Chloroform-d	5.056	84	148984	48.640	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.280%
26) 1,2-Dichloroethane-d4	5.952	65	104807	52.835	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.660%
32) Benzene-d6	5.971	84	303939	48.436	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.880%
36) 1,2-Dichloropropane-d6	7.306	67	98058	48.557	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.120%
41) Toluene-d8	8.647	98	271653	47.770	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.540%
43) trans-1,3-Dichloroprop...	8.946	79	47643	46.361	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.720%
47) 2-Hexanone-d5	9.378	63	111604	92.530	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	92.530%
56) 1,1,2,2-Tetrachloroeth...	11.189	84	141119	49.260	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.520%
66) 1,2-Dichlorobenzene-d4	12.317	152	94044	52.026	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.060%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.374	62	11173	6.165	ug/L	91
9) Trichlorofluoromethane	1.886	101	1613	0.687	ug/L #	77
12) 1,1-Dichloroethene	2.319	96	5003	3.520	ug/L #	1
13) Acetone	2.374	43	44436	29.533	ug/L	94
17) trans-1,2-Dichloroethene	3.093	96	7938	5.301	ug/L	85
19) 1,1-Dichloroethane	3.611	63	6142	2.074	ug/L #	93
20) cis-1,2-Dichloroethene	4.483	96	158266	91.126	ug/L	93
22) 2-Butanone	4.556	43	42834	23.196	ug/L	97
27) 1,2-Dichloroethane	6.080	62	4755	2.040	ug/L #	88
30) 1,1,1-Trichloroethane	5.385	97	3778	1.531	ug/L #	51
33) Benzene	6.038	78	4837	0.749	ug/L	100
34) Trichloroethene	7.123	95	264949	155.156	ug/L	98
37) 1,2-Dichloropropane	7.428	63	8258	4.608	ug/L #	97
46) Tetrachloroethene	9.269	164	24097	21.392	ug/L	94
51) Chlorobenzene	10.080	112	3019	0.713	ug/L	95
52) Ethylbenzene	10.195	91	4156	0.543	ug/L	98
53) m,p-Xylene	10.299	106	1459	0.509	ug/L	96
55) Styrene	10.659	104	2352	0.500	ug/L	89
60) Isopropylbenzene	10.964	105	3760	0.538	ug/L	94

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 Quant Title : VOC Analysis
 QLast Update : Tue Dec 12 03:50:51 2023
 Response via : Initial Calibration

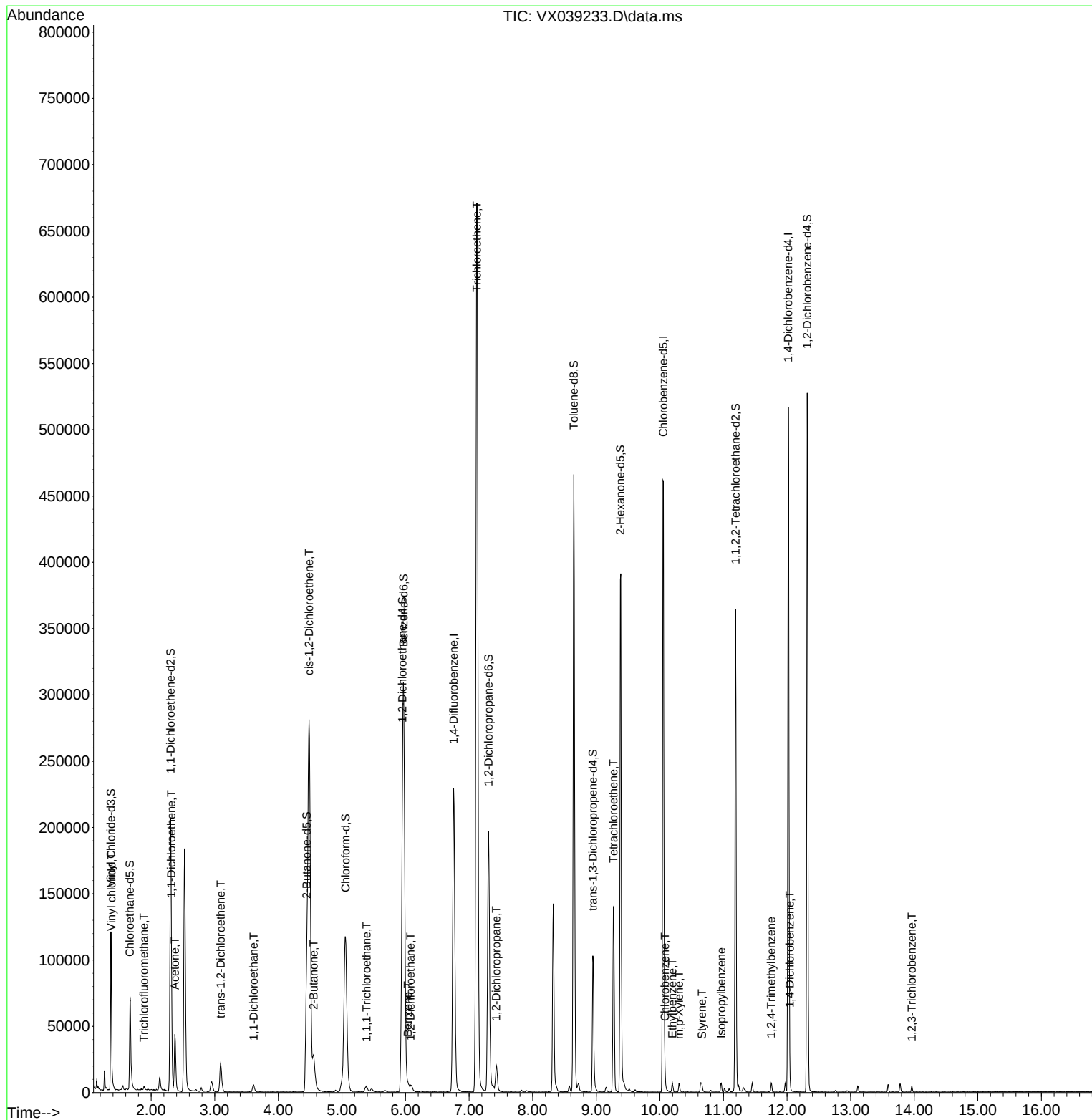
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	11.750	105	3120	0.539	ug/L	99
65) 1,4-Dichlorobenzene	12.043	146	2205	0.728	ug/L	93
72) 1,2,3-Trichlorobenzene	13.963	180	1219	0.675	ug/L	92

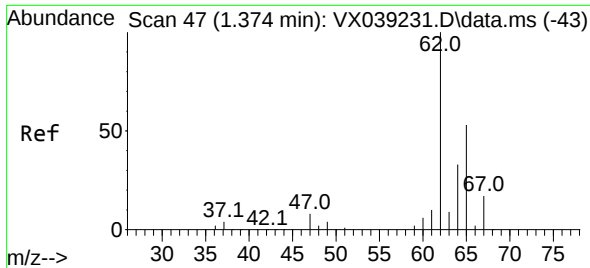
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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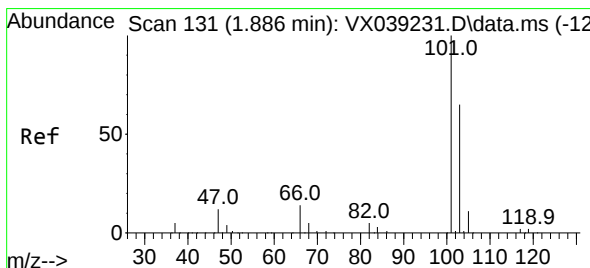
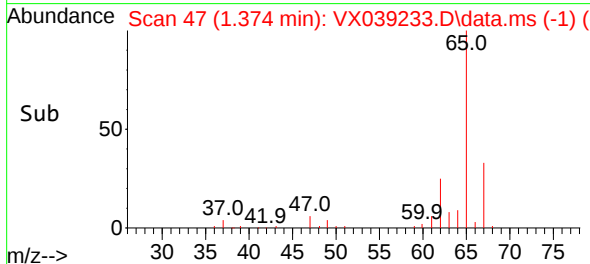
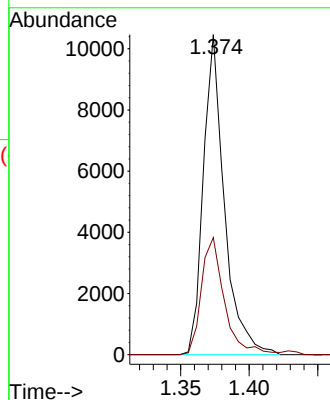
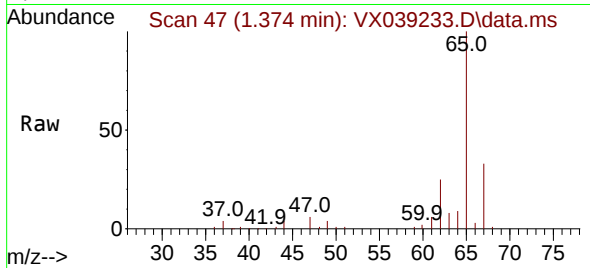




#5
 Vinyl chloride
 Concen: 6.165 ug/L
 RT: 1.374 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VX039233.D
 Acq: 15 Dec 2023 17:12

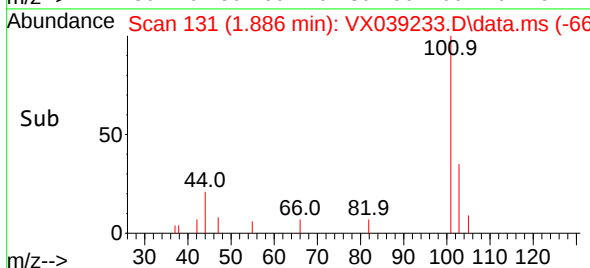
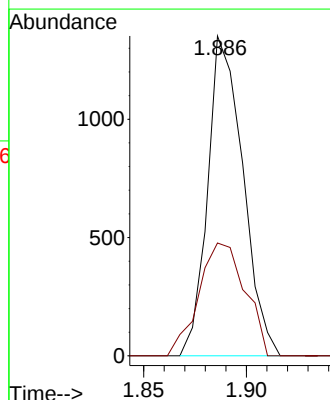
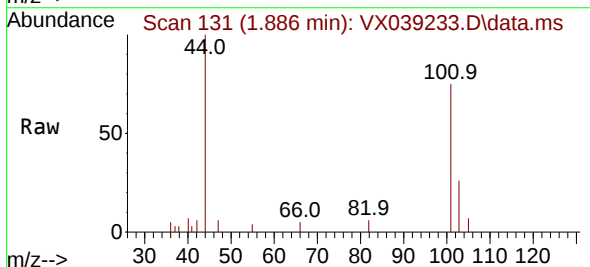
Instrument :
 MSVOA_X
 ClientSampleId :
 YCHF0

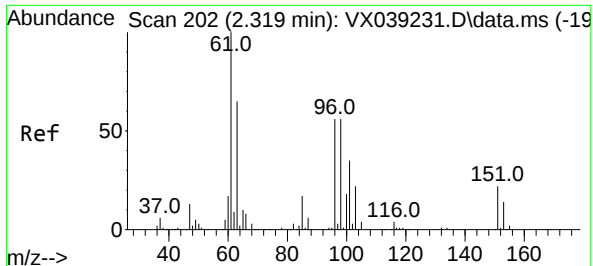
Tgt Ion: 62 Resp: 11173
 Ion Ratio Lower Upper
 62 100
 64 36.6 22.3 41.3



#9
 Trichlorofluoromethane
 Concen: 0.687 ug/L
 RT: 1.886 min Scan# 131
 Delta R.T. -0.006 min
 Lab File: VX039233.D
 Acq: 15 Dec 2023 17:12

Tgt Ion: 101 Resp: 1613
 Ion Ratio Lower Upper
 101 100
 103 46.4 51.4 77.2#





#12

1,1-Dichloroethene

Concen: 3.520 ug/L

RT: 2.319 min Scan# 202

Delta R.T. 0.000 min

Lab File: VX039233.D

Acq: 15 Dec 2023 17:12

Instrument :

MSVOA_X

ClientSampleId :

YCHF0

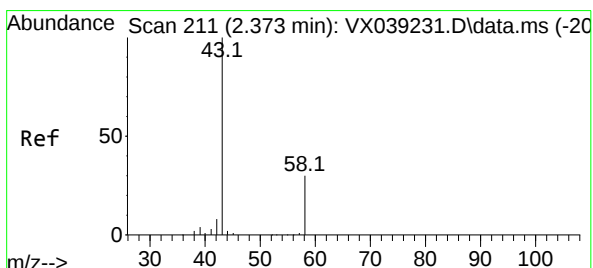
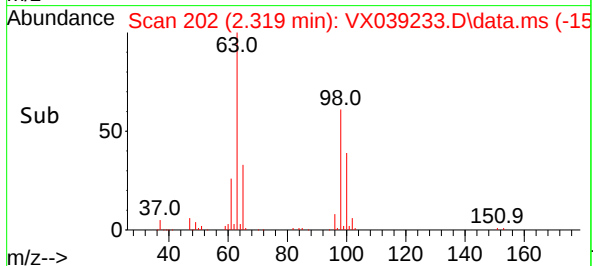
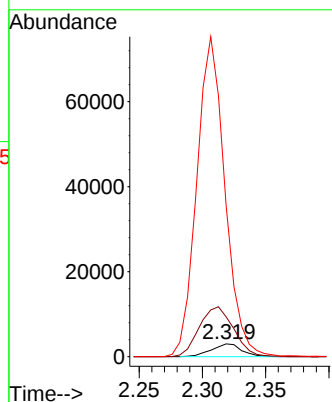
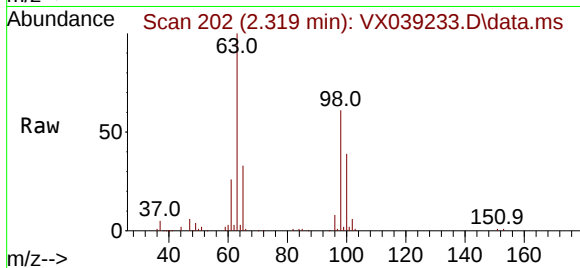
Tgt Ion: 96 Resp: 5003

Ion Ratio Lower Upper

96 100

61 311.7 128.0 237.6#

63 1180.4 101.5 188.5#



#13

Acetone

Concen: 29.533 ug/L

RT: 2.374 min Scan# 211

Delta R.T. 0.000 min

Lab File: VX039233.D

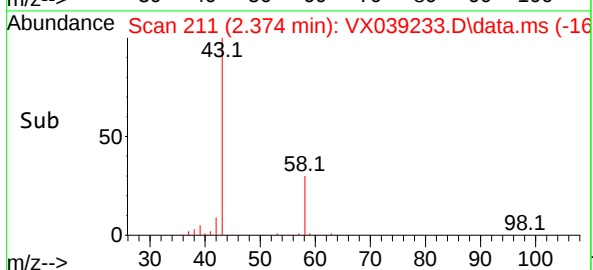
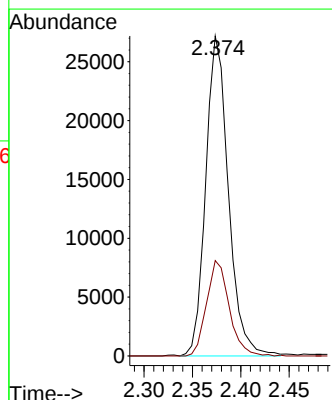
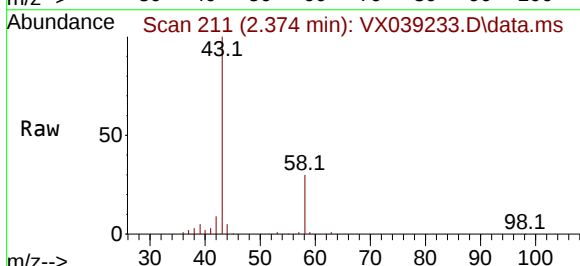
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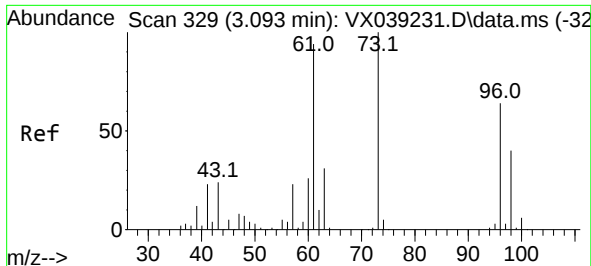
Tgt Ion: 43 Resp: 44436

Ion Ratio Lower Upper

43 100

58 29.7 0.0 65.8





#17

trans-1,2-Dichloroethene

Concen: 5.301 ug/L

RT: 3.093 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX039233.D

Acq: 15 Dec 2023 17:12

Instrument :

MSVOA_X

ClientSampleId :

YCHF0

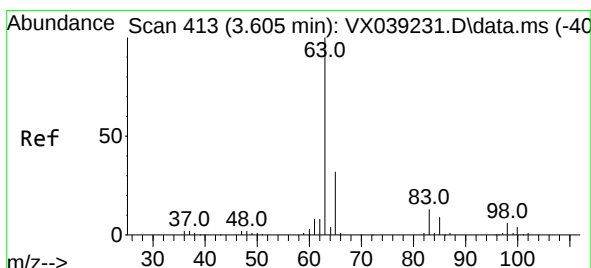
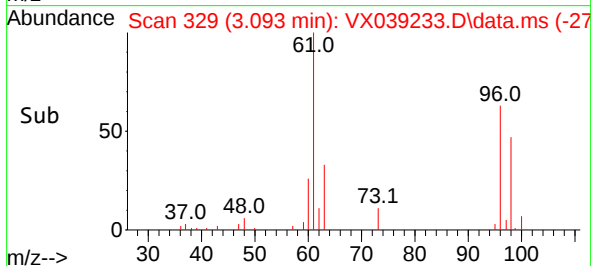
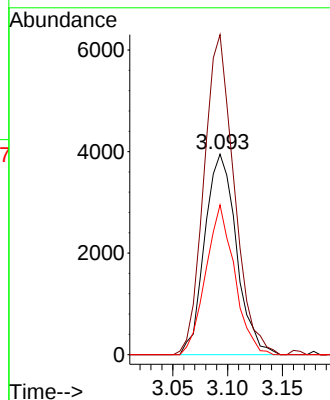
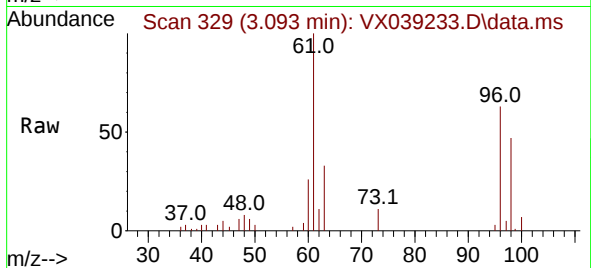
Tgt Ion: 96 Resp: 7938

Ion Ratio Lower Upper

96 100

61 159.6 99.8 185.3

98 74.7 42.6 79.2



#19

1,1-Dichloroethane

Concen: 2.074 ug/L

RT: 3.611 min Scan# 414

Delta R.T. 0.006 min

Lab File: VX039233.D

Acq: 15 Dec 2023 17:12

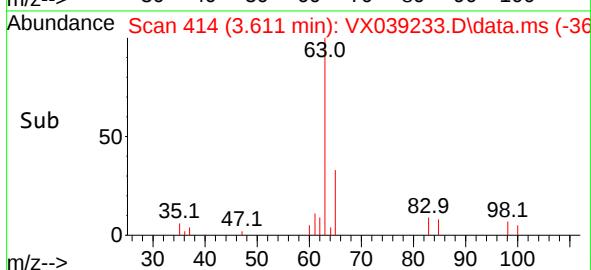
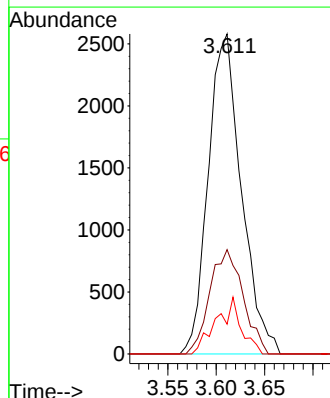
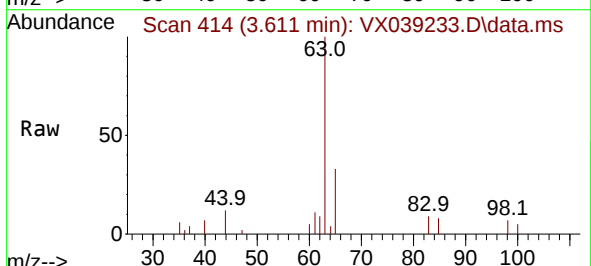
Tgt Ion: 63 Resp: 6142

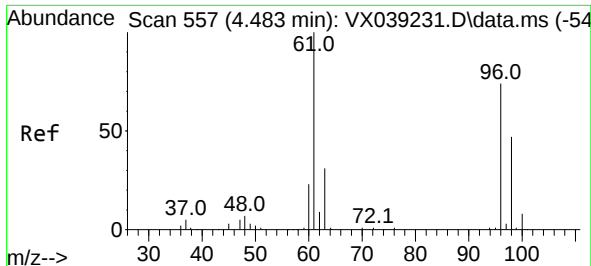
Ion Ratio Lower Upper

63 100

65 32.6 21.1 39.3

83 9.3 9.7 17.9#



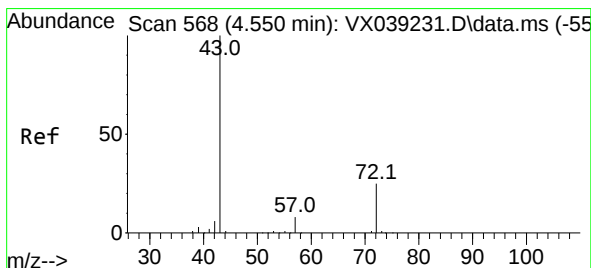
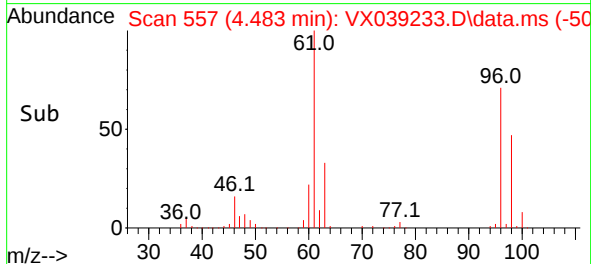
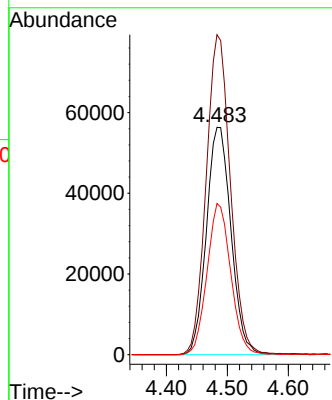
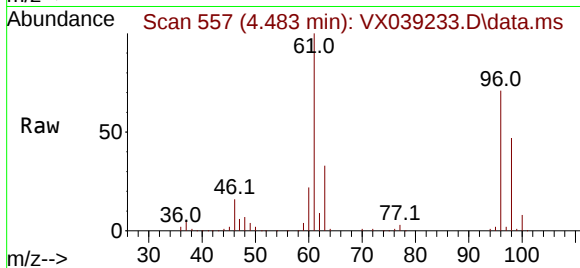


#20
 cis-1,2-Dichloroethene
 Concen: 91.126 ug/L
 RT: 4.483 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VX039233.D
 Acq: 15 Dec 2023 17:12

Instrument :
 MSVOA_X
 ClientSampleId :
 YCHF0

Tgt Ion: 96 Resp: 158266

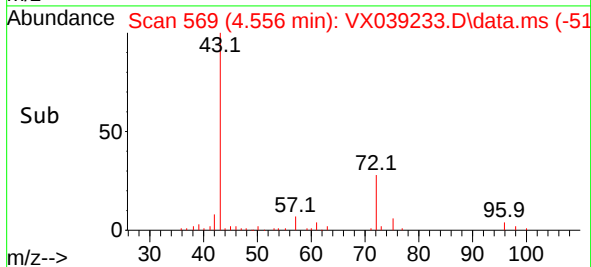
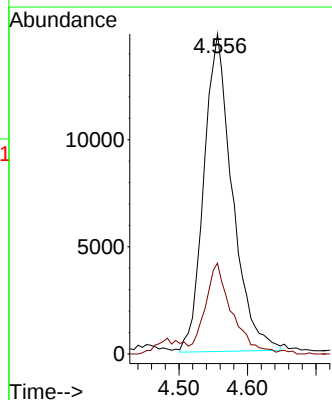
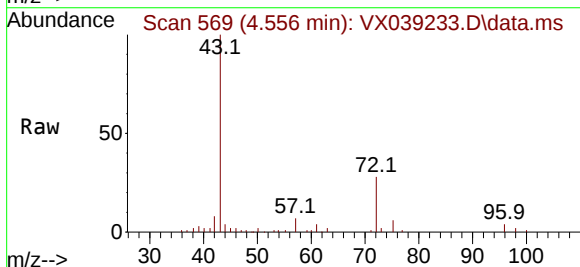
Ion	Ratio	Lower	Upper
96	100		
61	140.7	91.7	170.3
98	66.5	44.2	82.2

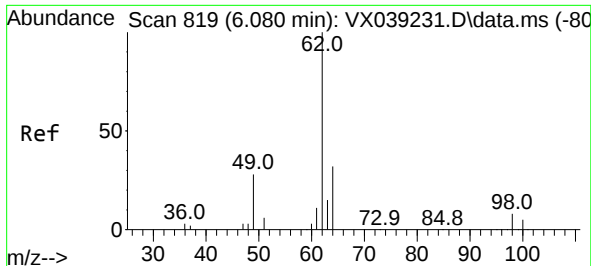


#22
 2-Butanone
 Concen: 23.196 ug/L
 RT: 4.556 min Scan# 569
 Delta R.T. 0.012 min
 Lab File: VX039233.D
 Acq: 15 Dec 2023 17:12

Tgt Ion: 43 Resp: 42834

Ion	Ratio	Lower	Upper
43	100		
72	26.7	12.6	37.6





#27

1,2-Dichloroethane

Concen: 2.040 ug/L

RT: 6.080 min Scan# 819

Delta R.T. 0.000 min

Lab File: VX039233.D

Acq: 15 Dec 2023 17:12

Instrument :

MSVOA_X

ClientSampleId :

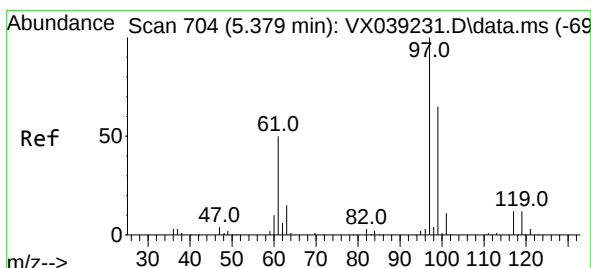
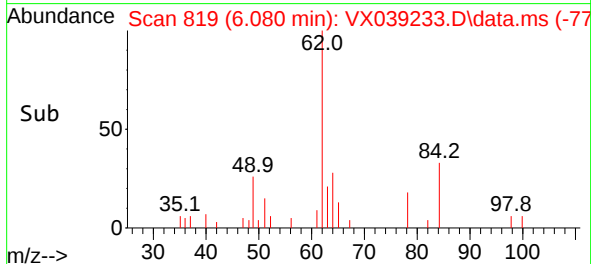
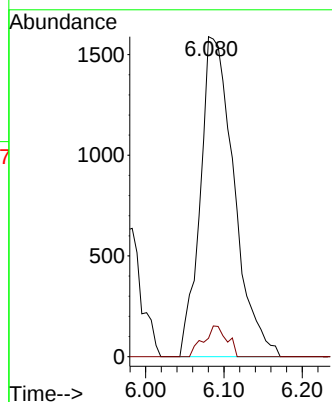
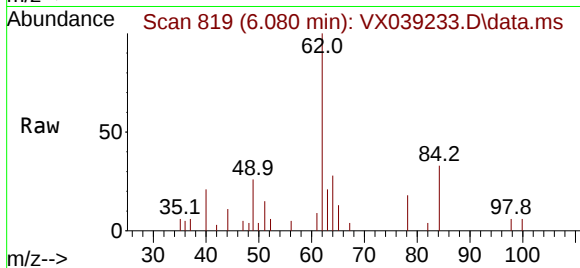
YCHF0

Tgt Ion: 62 Resp: 4755

Ion Ratio Lower Upper

62 100

98 5.7 8.0 12.0#



#30

1,1,1-Trichloroethane

Concen: 1.531 ug/L

RT: 5.385 min Scan# 705

Delta R.T. 0.012 min

Lab File: VX039233.D

Acq: 15 Dec 2023 17:12

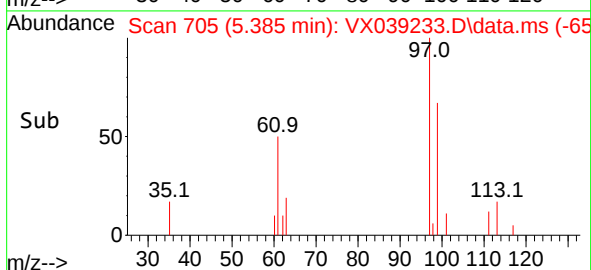
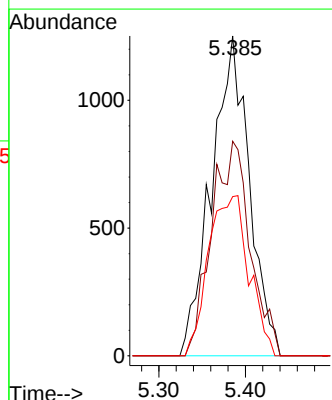
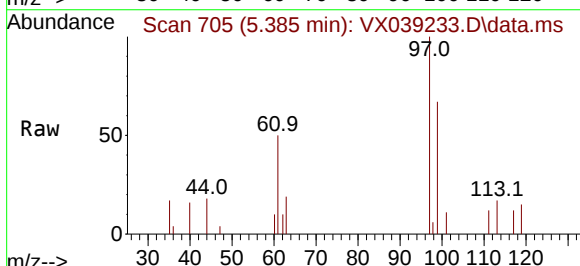
Tgt Ion: 97 Resp: 3778

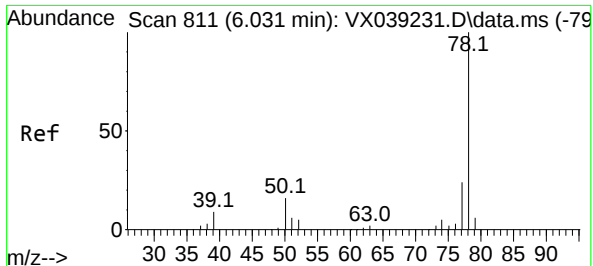
Ion Ratio Lower Upper

97 100

99 36.5 51.0 76.4#

61 0.0 36.7 55.1#

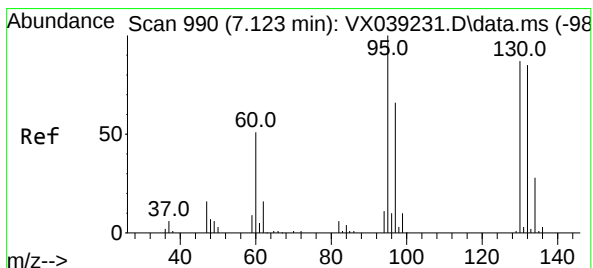
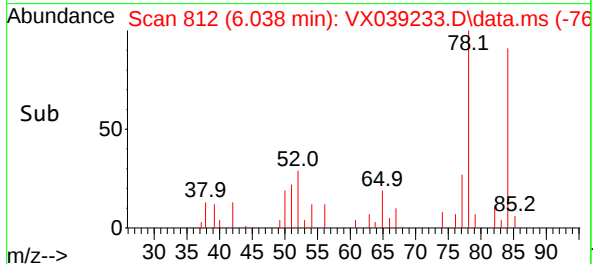
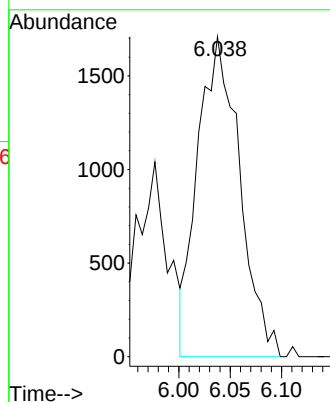
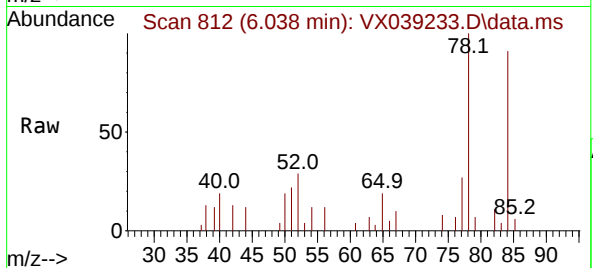




#33
Benzene
Concen: 0.749 ug/L
RT: 6.038 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX039233.D
Acq: 15 Dec 2023 17:12

Instrument :
MSVOA_X
ClientSampleId :
YCHF0

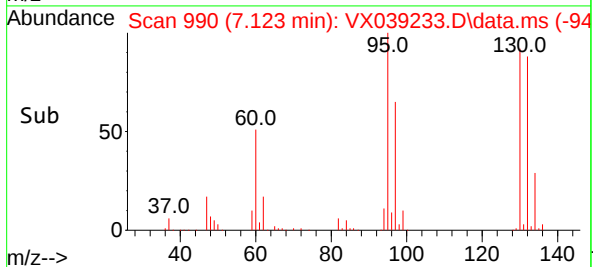
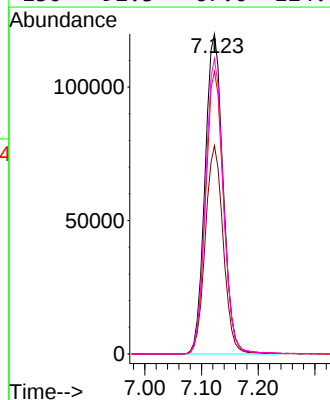
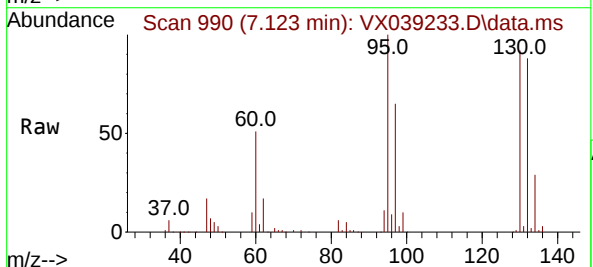
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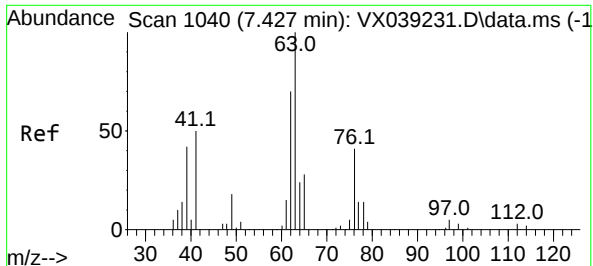


#34
Trichloroethene
Concen: 155.156 ug/L
RT: 7.123 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX039233.D
Acq: 15 Dec 2023 17:12

Tgt Ion: 95 Resp: 264949

Ion	Ratio	Lower	Upper
95	100		
97	65.1	45.5	84.5
132	88.2	62.2	115.4
130	92.3	67.0	124.4





#37

1,2-Dichloropropane

Concen: 4.608 ug/L

RT: 7.428 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX039233.D

Acq: 15 Dec 2023 17:12

Instrument :

MSVOA_X

ClientSampleId :

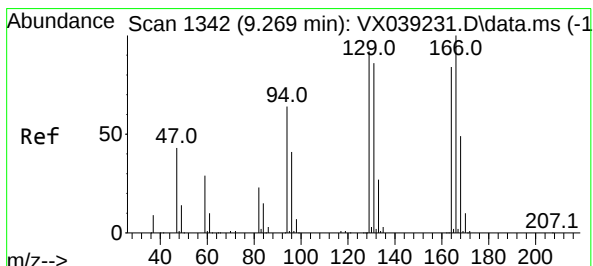
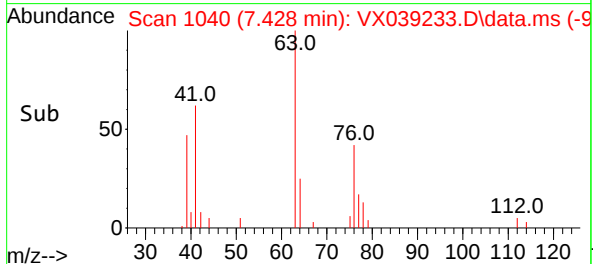
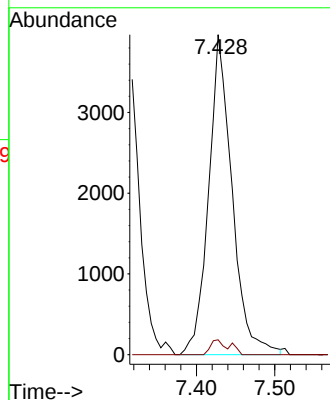
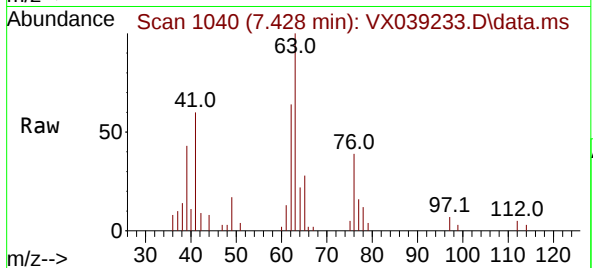
YCHF0

Tgt Ion: 63 Resp: 8258

Ion Ratio Lower Upper

63 100

112 2.7 2.8 4.2#



#46

Tetrachloroethene

Concen: 21.392 ug/L

RT: 9.269 min Scan# 1342

Delta R.T. 0.000 min

Lab File: VX039233.D

Acq: 15 Dec 2023 17:12

Tgt Ion:164 Resp: 24097

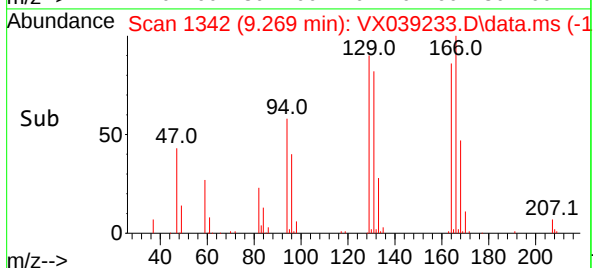
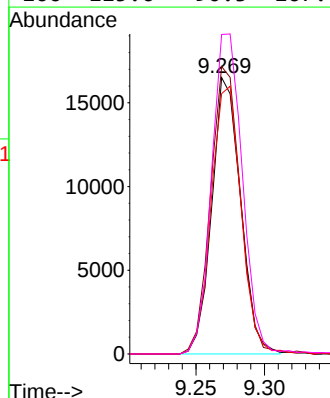
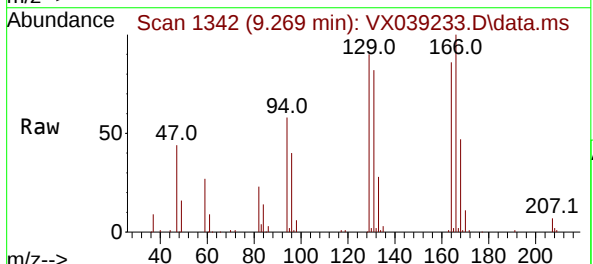
Ion Ratio Lower Upper

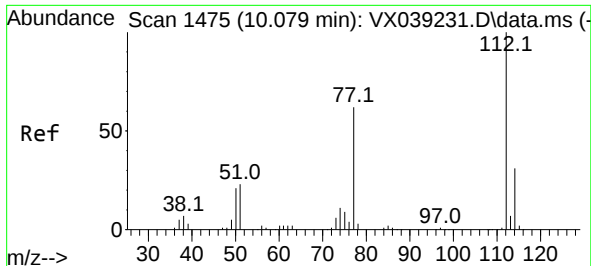
164 100

129 104.0 71.9 133.5

131 94.2 69.5 129.1

166 115.6 90.3 167.7

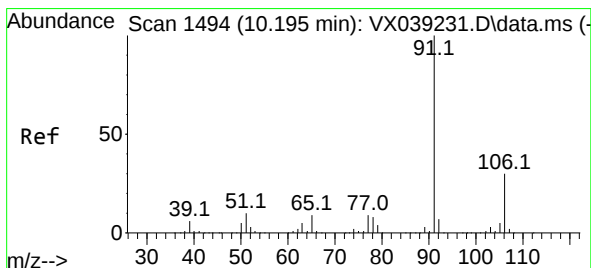
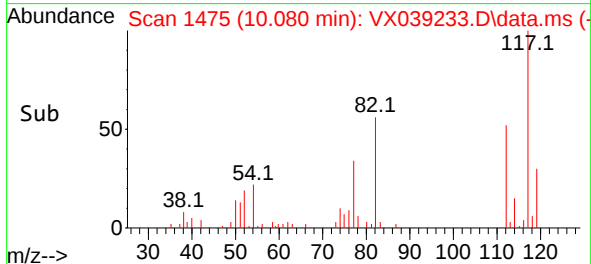
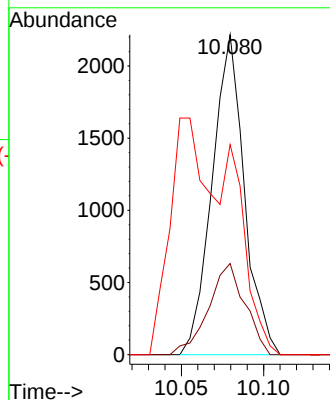
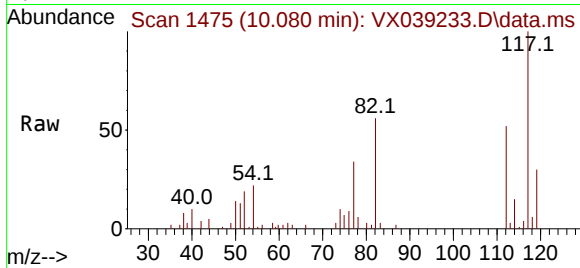




#51
Chlorobenzene
Concen: 0.713 ug/L
RT: 10.080 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VX039233.D
Acq: 15 Dec 2023 17:12

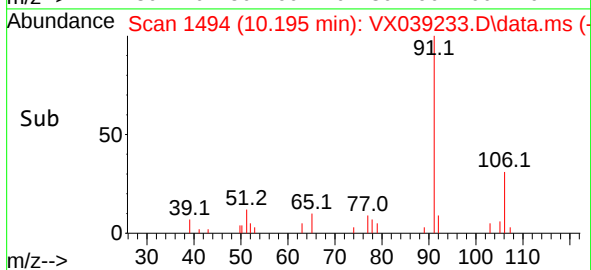
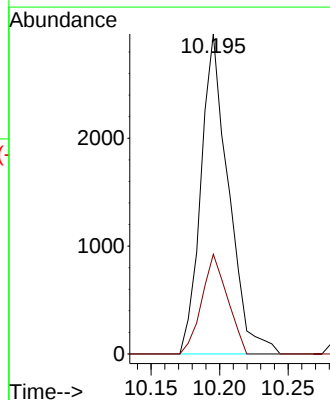
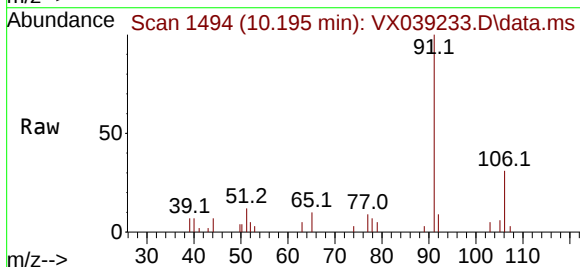
Instrument :
MSVOA_X
ClientSampleId :
YCHF0

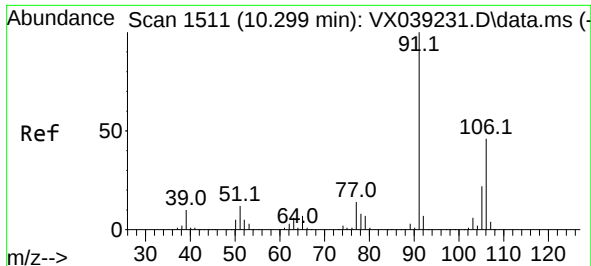
Tgt Ion:112	Resp:	3019
Ion	Ratio	Lower Upper
112	100	
114	28.5	21.8 40.4
77	65.6	49.0 73.6



#52
Ethylbenzene
Concen: 0.543 ug/L
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX039233.D
Acq: 15 Dec 2023 17:12

Tgt Ion: 91	Resp:	4156
Ion	Ratio	Lower Upper
91	100	
106	31.1	21.2 39.4

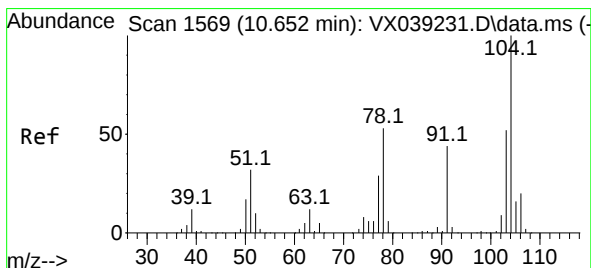
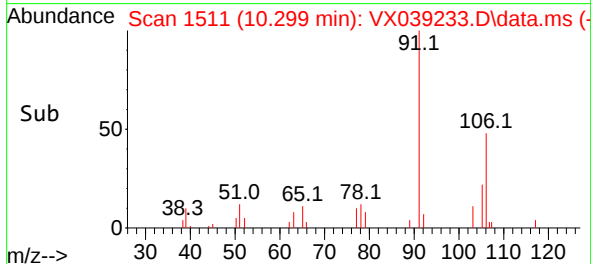
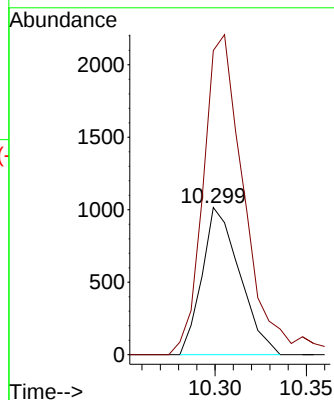
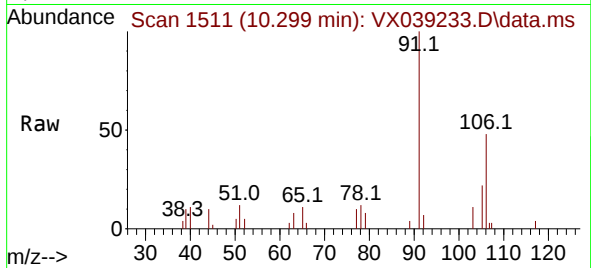




#53
m,p-Xylene
Concen: 0.509 ug/L
RT: 10.299 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX039233.D
Acq: 15 Dec 2023 17:12

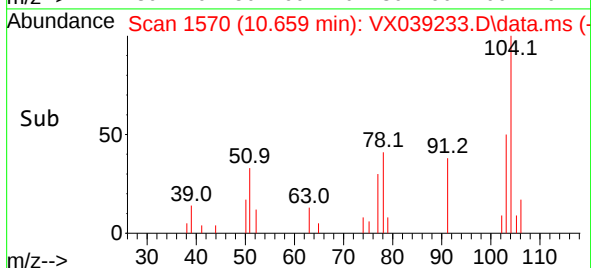
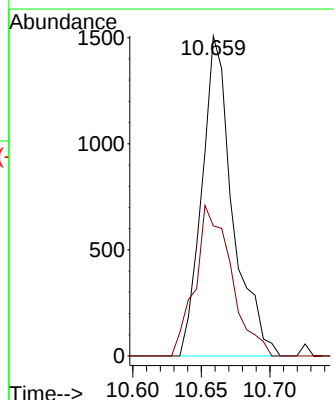
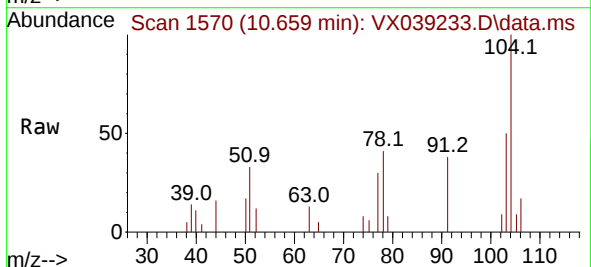
Instrument :
MSVOA_X
ClientSampleId :
YCHF0

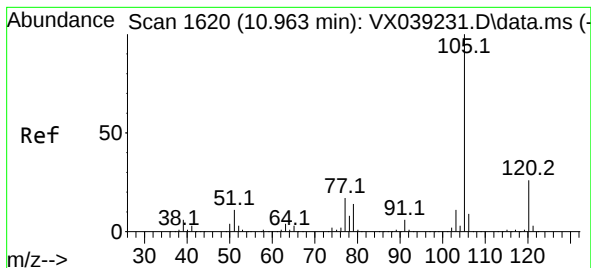
Tgt Ion:106 Resp: 1459
Ion Ratio Lower Upper
106 100
91 206.6 149.0 276.8



#55
Styrene
Concen: 0.500 ug/L
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX039233.D
Acq: 15 Dec 2023 17:12

Tgt Ion:104 Resp: 2352
Ion Ratio Lower Upper
104 100
78 40.6 33.5 62.1





#60

Isopropylbenzene

Concen: 0.538 ug/L

RT: 10.964 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX039233.D

Acq: 15 Dec 2023 17:12

Instrument :

MSVOA_X

ClientSampleId :

YCHF0

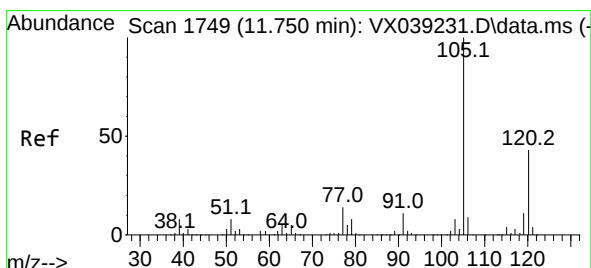
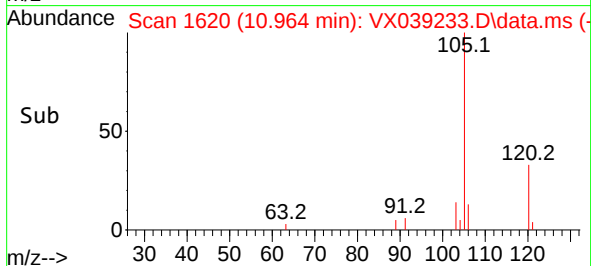
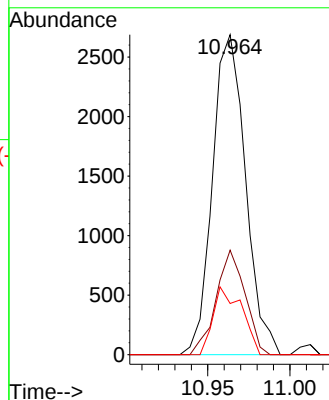
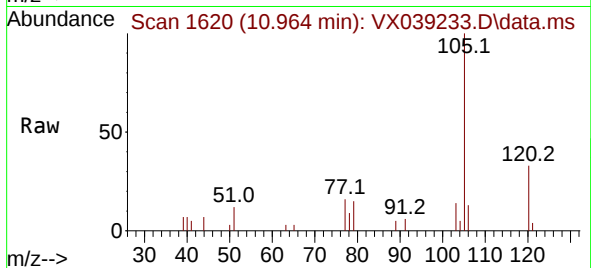
Tgt Ion:105 Resp: 3760

Ion Ratio Lower Upper

105 100

120 28.6 20.5 30.7

77 18.3 13.0 19.6



#63

1,2,4-Trimethylbenzene

Concen: 0.539 ug/L

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX039233.D

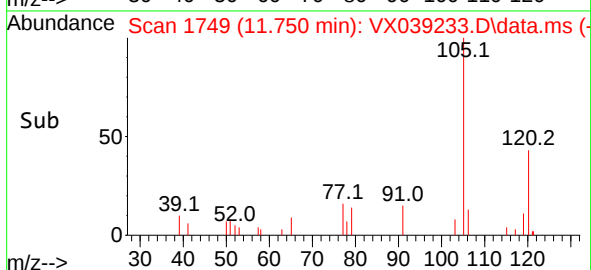
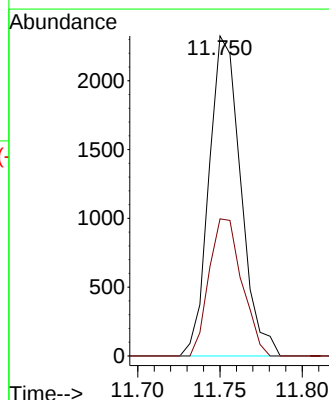
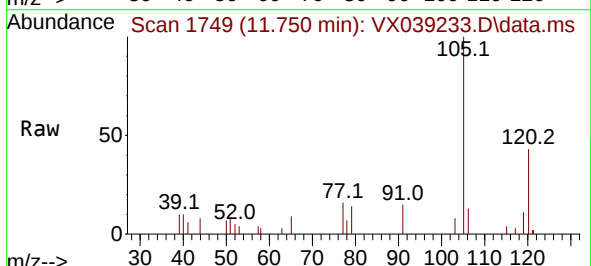
Acq: 15 Dec 2023 17:12

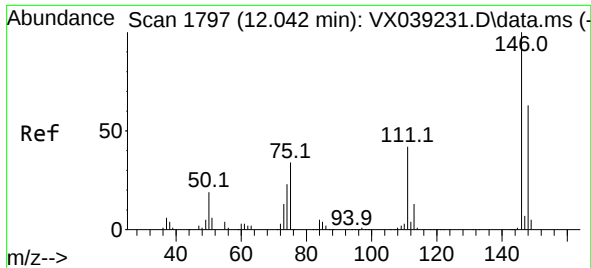
Tgt Ion:105 Resp: 3120

Ion Ratio Lower Upper

105 100

120 44.5 34.9 52.3

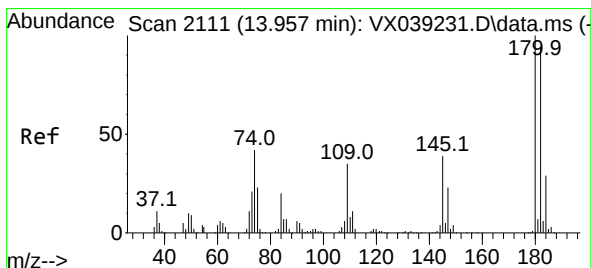
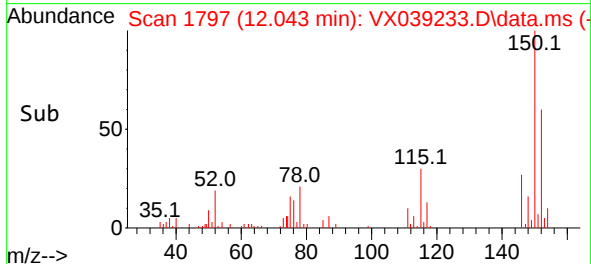
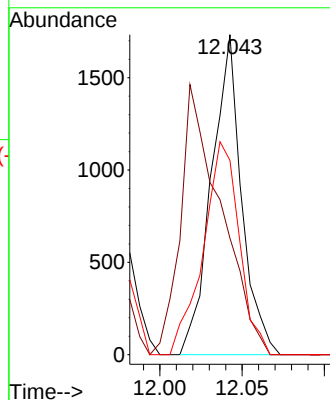
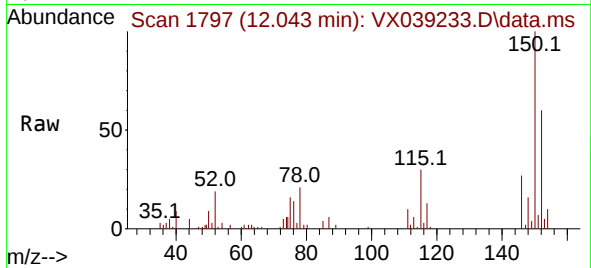




#65
1,4-Dichlorobenzene
Concen: 0.728 ug/L
RT: 12.043 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX039233.D
Acq: 15 Dec 2023 17:12

Instrument :
MSVOA_X
ClientSampleId :
YCHF0

Tgt Ion:146 Resp: 2205
Ion Ratio Lower Upper
146 100
111 36.4 29.7 55.1
148 60.7 45.8 85.2



#72
1,2,3-Trichlorobenzene
Concen: 0.675 ug/L
RT: 13.963 min Scan# 2112
Delta R.T. 0.000 min
Lab File: VX039233.D
Acq: 15 Dec 2023 17:12

Tgt Ion:180 Resp: 1219
Ion Ratio Lower Upper
180 100
182 87.8 75.9 113.9
145 30.6 28.6 42.8

