

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081522\
 Data File : VX030631.D
 Acq On : 15 Aug 2022 16:34
 Operator : JC/MD
 Sample : N4181-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 X3C26

Quant Time: Aug 16 04:31:27 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML080422WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 16 04:27:08 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.769	114	286536	50.000	ug/L	0.00
28) Chlorobenzene-d5	10.055	117	261792	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.024	152	128299	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.368	65	55802	30.326	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	60.660%
7) Chloroethane-d5	1.666	69	43497	33.532	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	67.060%#
11) 1,1-Dichloroethene-d2	2.306	63	162673	46.736	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.480%
21) 2-Butanone-d5	4.471	46	189126	110.929	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	110.930%
24) Chloroform-d	5.062	84	161311	42.586	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.180%
26) 1,2-Dichloroethane-d4	5.964	65	118588	46.108	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.220%
32) Benzene-d6	5.977	84	290699	38.765	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	77.540%
36) 1,2-Dichloropropane-d6	7.312	67	104070	42.775	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	85.540%
41) Toluene-d8	8.653	98	258597	36.584	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	73.160%#
43) trans-1,3-Dichloroprop...	8.952	79	43740	36.138	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.280%
47) 2-Hexanone-d5	9.391	63	126241	101.796	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.800%
56) 1,1,2,2-Tetrachloroeth...	11.195	84	154750	48.418	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.840%
66) 1,2-Dichlorobenzene-d4	12.323	152	100190	40.261	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	80.520%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.374	62	204450	103.241	ug/L	97
9) Trichlorofluoromethane	1.880	101	262713	89.763	ug/L	100
12) 1,1-Dichloroethene	2.319	96	118099	73.638	ug/L #	66
13) Acetone	2.404	43	6447	5.160	ug/L	58
15) Methyl Acetate	2.715	43	6125	2.368	ug/L	98
18) Methyl tert-butyl Ether	3.123	73	549492	86.965	ug/L	100
20) cis-1,2-Dichloroethene	4.495	96	90552	43.325	ug/L	98
33) Benzene	6.044	78	181256	21.595	ug/L	100
34) Trichloroethene	7.129	95	162724	66.937	ug/L	90
35) Methylcyclohexane	7.385	83	338040	95.518	ug/L	98
37) 1,2-Dichloropropane	7.434	63	49100	22.001	ug/L	99
39) cis-1,3-Dichloropropene	8.330	75	3287	0.987	ug/L #	44
40) 4-Methyl-2-pentanone	8.580	43	477384	122.834	ug/L	99
45) 1,1,2-Trichloroethane	9.159	97	65816	31.716	ug/L	97
46) Tetrachloroethene	9.275	164	79300	51.615	ug/L	99
48) 2-Hexanone	9.433	43	293037	97.043	ug/L	99
49) Dibromochloromethane	9.525	129	80125	36.293	ug/L	98
50) 1,2-Dibromoethane	9.616	107	273452	119.826	ug/L	97
52) Ethylbenzene	10.195	91	750561	77.632	ug/L	98

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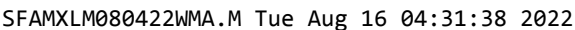
Instrument :
 MSVOA_X
 ClientSampleId :
 X3C26

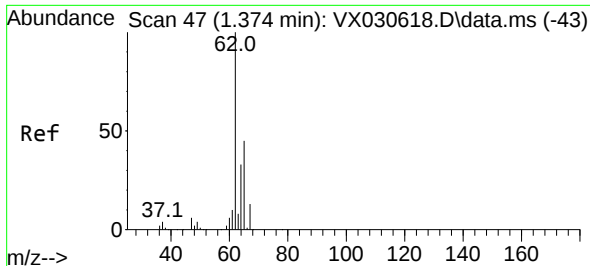
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML080422WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 16 04:27:08 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.646	106	113544	31.620	ug/L	98
55) Styrene	10.646	104	6086	1.007	ug/L #	1
60) Isopropylbenzene	10.963	105	779221	85.684	ug/L	100
64) 1,3-Dichlorobenzene	11.969	146	247076	62.499	ug/L	98
68) 1,2-Dibromo-3-chloropr...	13.116	75	33027	36.338	ug/L #	8
69) 1,3,5-Trichlorobenzene	13.116	180	143312	51.693	ug/L	95
70) 1,2,4-trichlorobenzene	13.591	180	123877	50.878	ug/L	96

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

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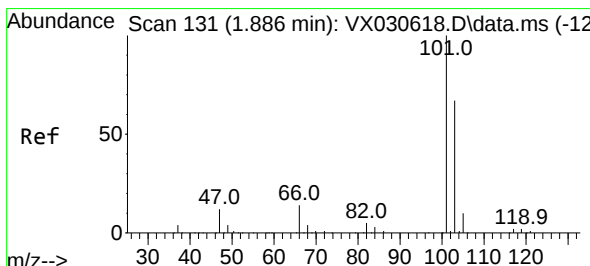
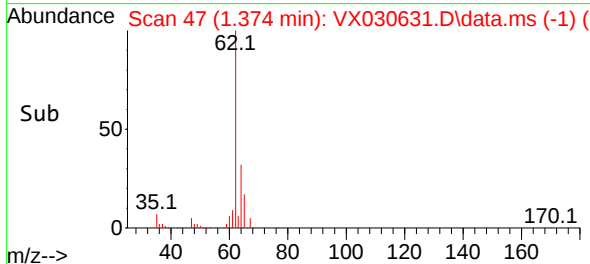
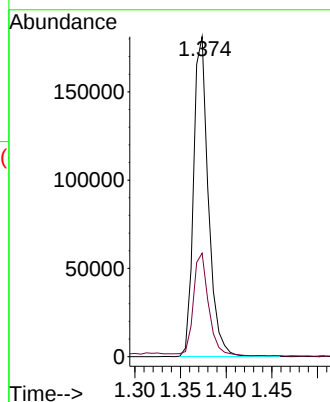
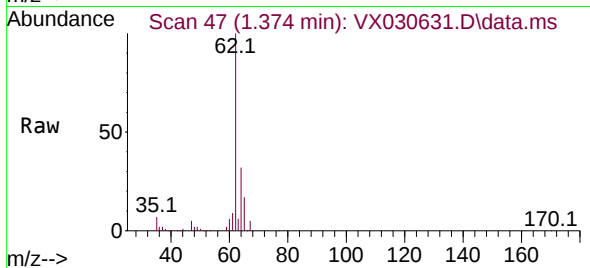




#5
 Vinyl chloride
 Concen: 103.241 ug/L
 RT: 1.374 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VX030631.D
 Acq: 15 Aug 2022 16:34

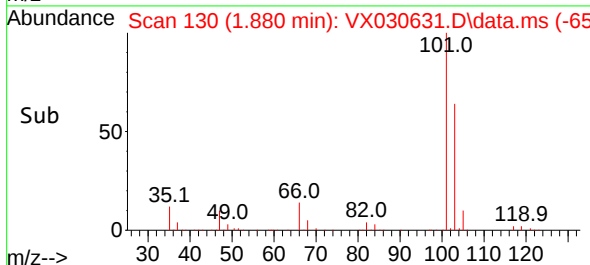
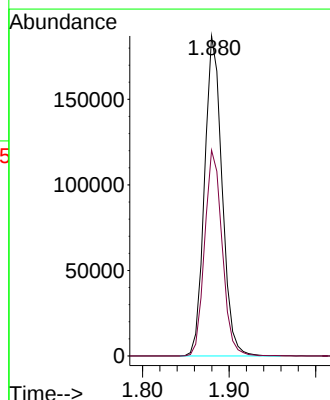
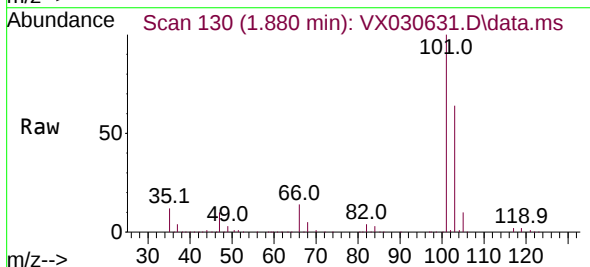
Instrument :
 MSVOA_X
 ClientSampleId :
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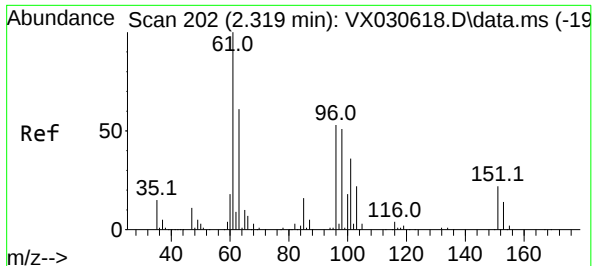
Tgt Ion: 62 Resp: 204450
 Ion Ratio Lower Upper
 62 100
 64 32.3 23.8 44.2



#9
 Trichlorofluoromethane
 Concen: 89.763 ug/L
 RT: 1.880 min Scan# 130
 Delta R.T. -0.006 min
 Lab File: VX030631.D
 Acq: 15 Aug 2022 16:34

Tgt Ion: 101 Resp: 262713
 Ion Ratio Lower Upper
 101 100
 103 64.1 51.5 77.3





#12

1,1-Dichloroethene

Concen: 73.638 ug/L

RT: 2.319 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX030631.D

Acq: 15 Aug 2022 16:34

Instrument :

MSVOA_X

ClientSampleId :

X3C26

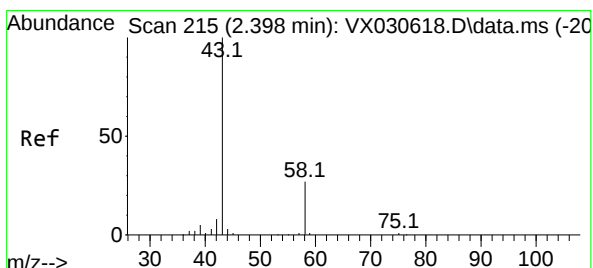
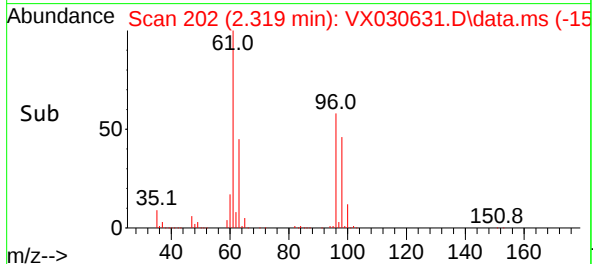
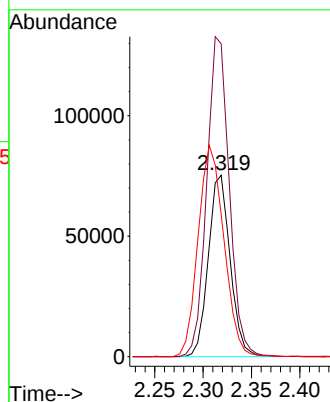
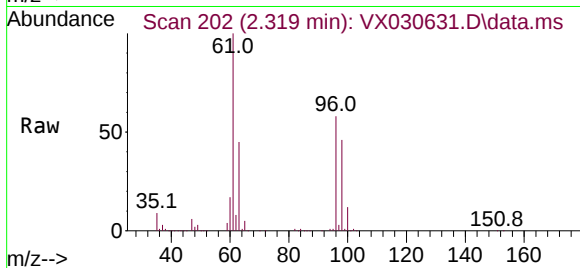
Tgt Ion: 96 Resp: 118099

Ion Ratio Lower Upper

96 100

61 172.4 130.2 241.8

63 78.4 113.5 210.9#



#13

Acetone

Concen: 5.160 ug/L

RT: 2.404 min Scan# 216

Delta R.T. 0.006 min

Lab File: VX030631.D

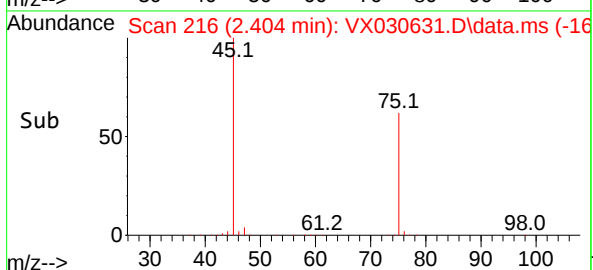
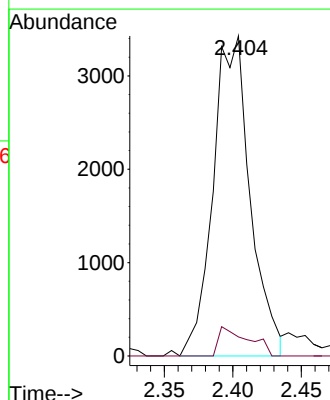
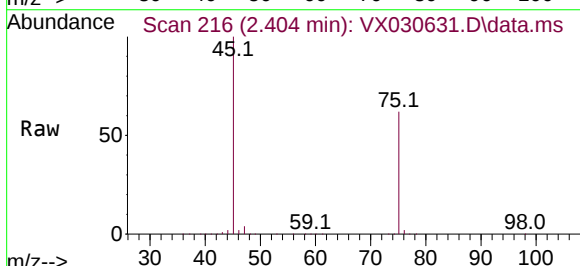
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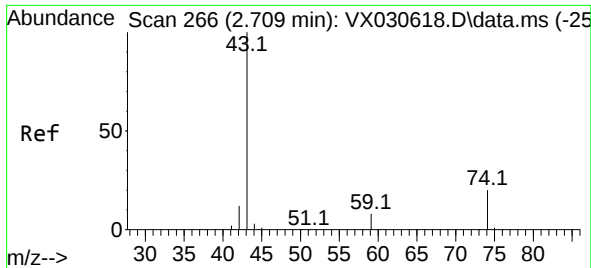
Tgt Ion: 43 Resp: 6447

Ion Ratio Lower Upper

43 100

58 6.3 0.0 57.8

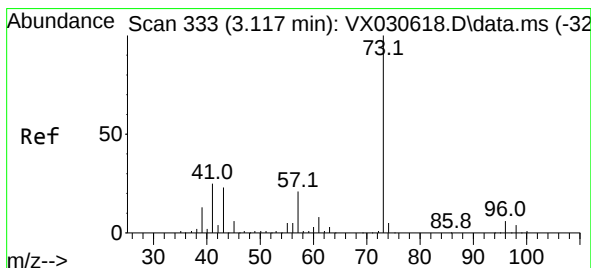
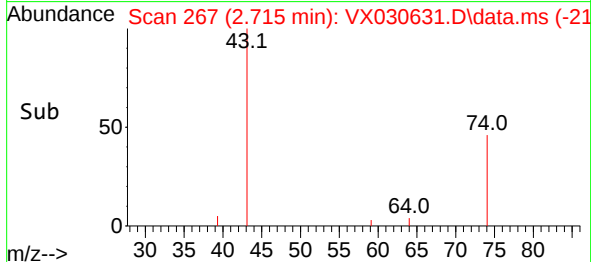
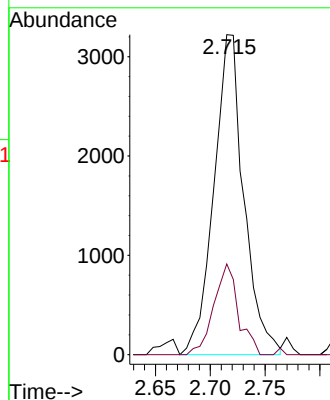
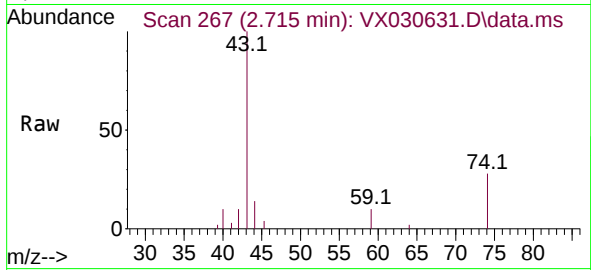




#15
Methyl Acetate
Concen: 2.368 ug/L
RT: 2.715 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX030631.D
Acq: 15 Aug 2022 16:34

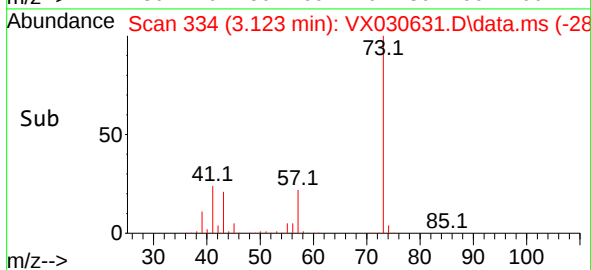
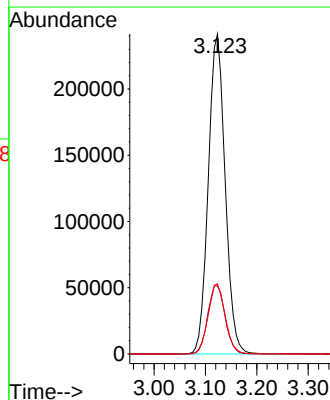
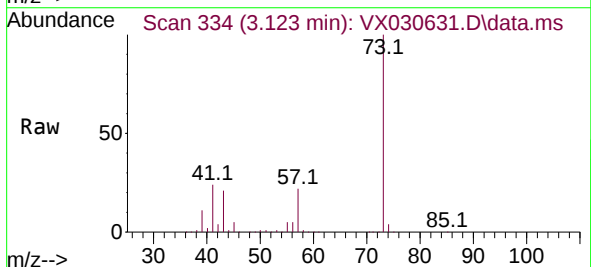
Instrument :
MSVOA_X
ClientSampleId :
X3C26

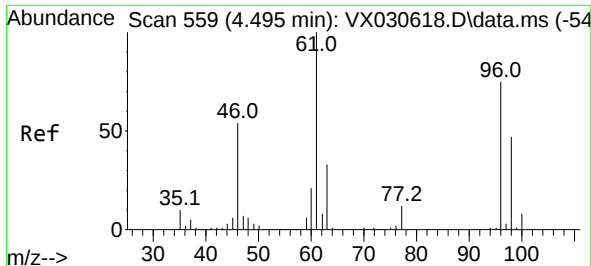
Tgt Ion: 43 Resp: 6125
Ion Ratio Lower Upper
43 100
74 20.7 17.2 25.8



#18
Methyl tert-butyl Ether
Concen: 86.965 ug/L
RT: 3.123 min Scan# 334
Delta R.T. 0.006 min
Lab File: VX030631.D
Acq: 15 Aug 2022 16:34

Tgt Ion: 73 Resp: 549492
Ion Ratio Lower Upper
73 100
43 22.1 17.6 26.4
57 22.1 17.5 26.3

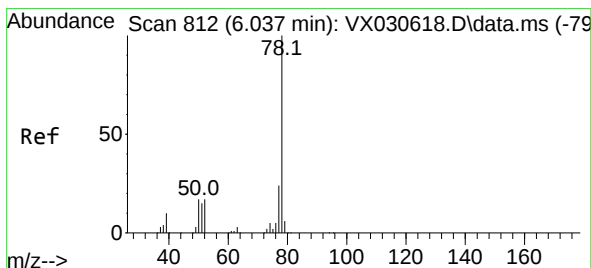
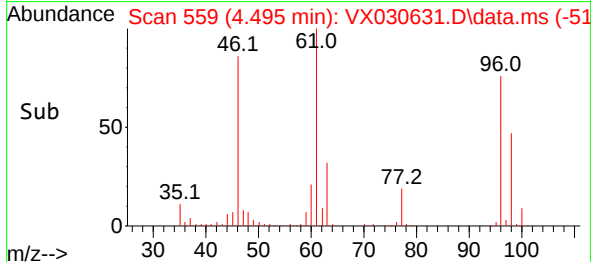
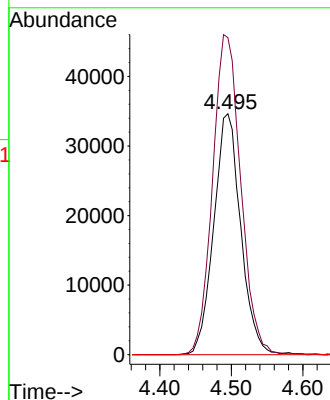
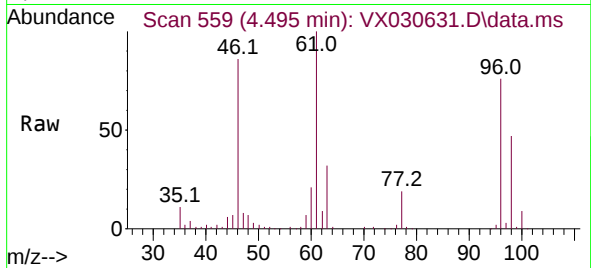




#20
cis-1,2-Dichloroethene
Concen: 43.325 ug/L
RT: 4.495 min Scan# 51
Delta R.T. 0.000 min
Lab File: VX030631.D
Acq: 15 Aug 2022 16:34

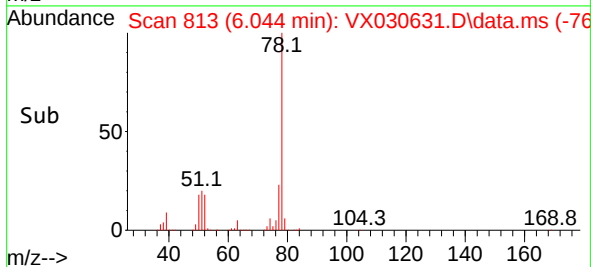
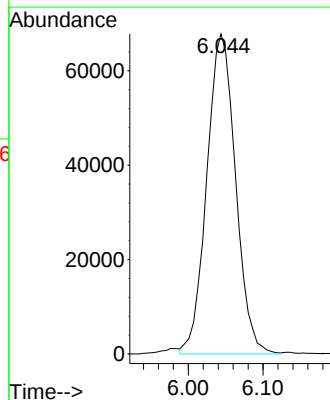
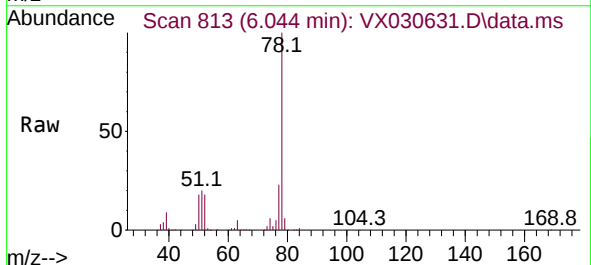
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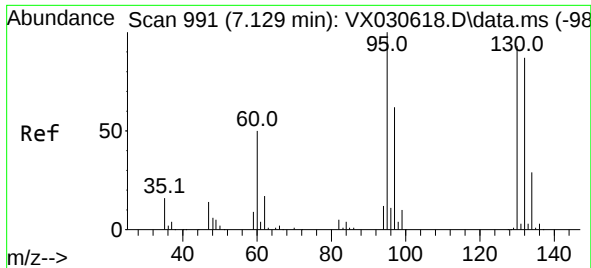
Tgt Ion: 96 Resp: 90552
Ion Ratio Lower Upper
96 100
61 131.6 94.0 174.6
68 0.0 0.0 0.0



#33
Benzene
Concen: 21.595 ug/L
RT: 6.044 min Scan# 813
Delta R.T. 0.006 min
Lab File: VX030631.D
Acq: 15 Aug 2022 16:34

Tgt Ion: 78 Resp: 181256

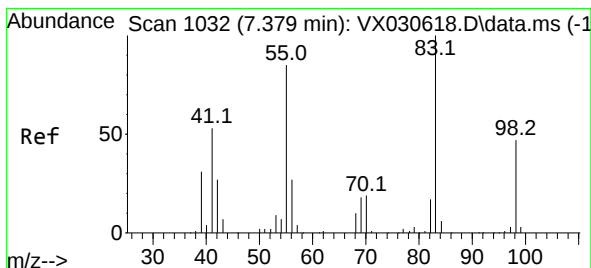
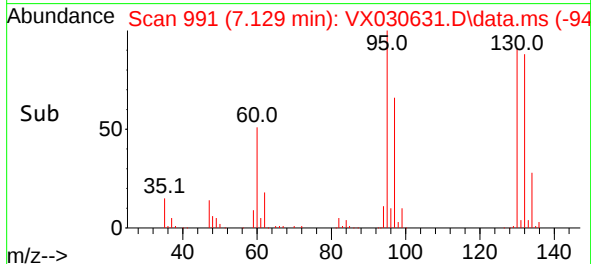
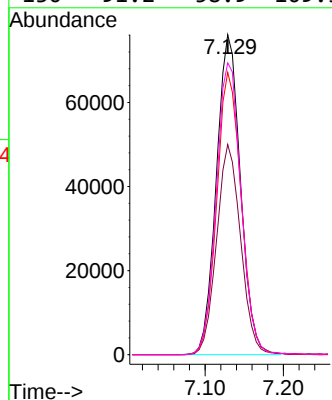
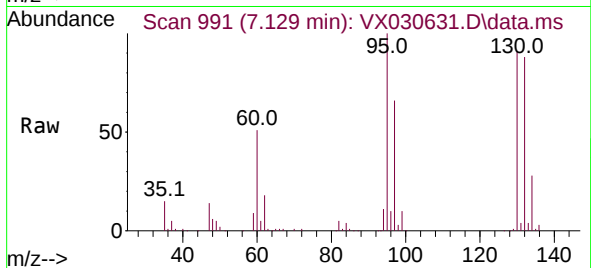




#34
Trichloroethene
Concen: 66.937 ug/L
RT: 7.129 min Scan# 991
Delta R.T. 0.000 min
Lab File: VX030631.D
Acq: 15 Aug 2022 16:34

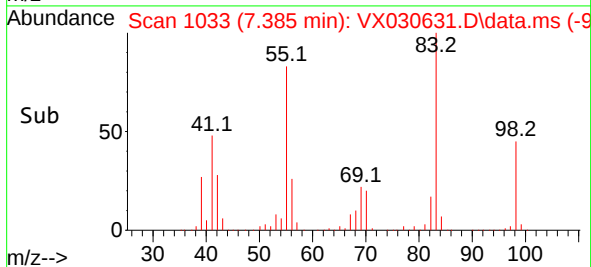
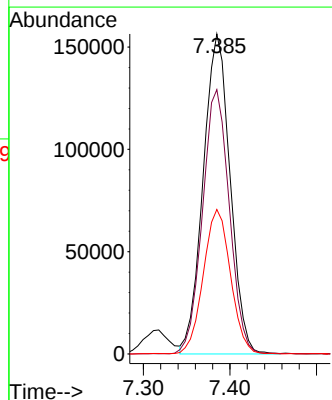
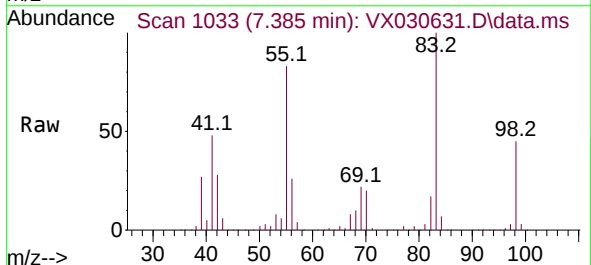
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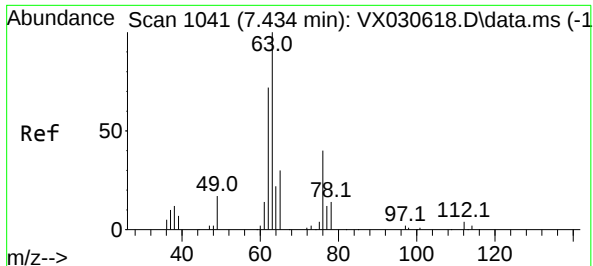
Tgt Ion: 95 Resp: 162724
Ion Ratio Lower Upper
95 100
97 65.7 40.2 74.6
132 88.3 55.3 102.7
130 91.2 58.9 109.5



#35
Methylcyclohexane
Concen: 95.518 ug/L
RT: 7.385 min Scan# 1033
Delta R.T. 0.006 min
Lab File: VX030631.D
Acq: 15 Aug 2022 16:34

Tgt Ion: 83 Resp: 338040
Ion Ratio Lower Upper
83 100
55 82.2 64.0 96.0
98 45.7 36.7 55.1





#37

1,2-Dichloropropane

Concen: 22.001 ug/L

RT: 7.434 min Scan# 1188

Delta R.T. 0.000 min

Lab File: VX030631.D

Acq: 15 Aug 2022 16:34

Instrument :

MSVOA_X

ClientSampleId :

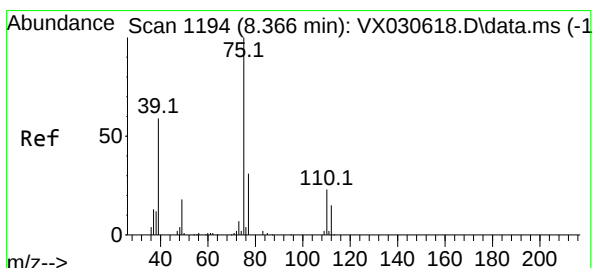
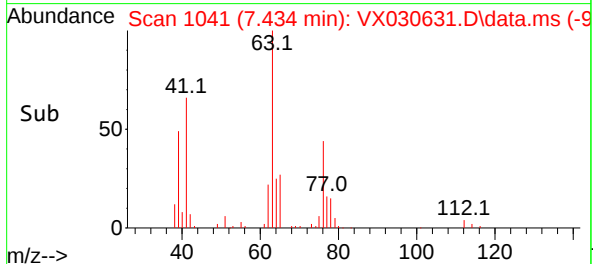
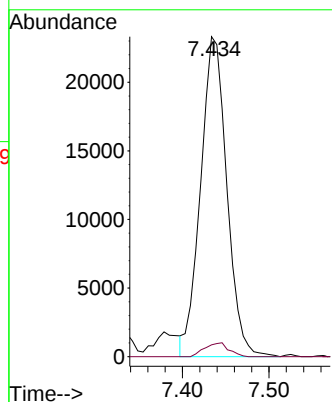
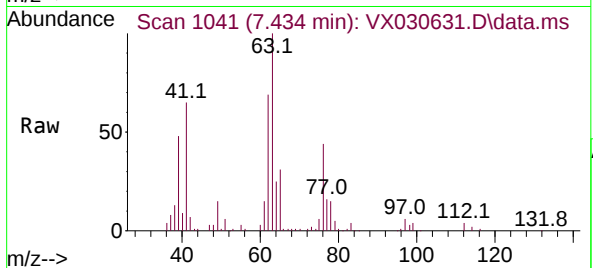
X3C26

Tgt Ion: 63 Resp: 49100

Ion Ratio Lower Upper

63 100

112 4.0 3.0 4.4



#39

cis-1,3-Dichloropropene

Concen: 0.987 ug/L

RT: 8.330 min Scan# 1188

Delta R.T. -0.037 min

Lab File: VX030631.D

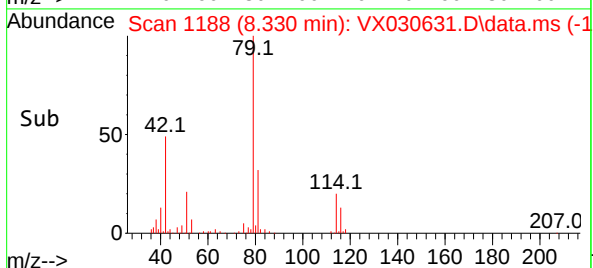
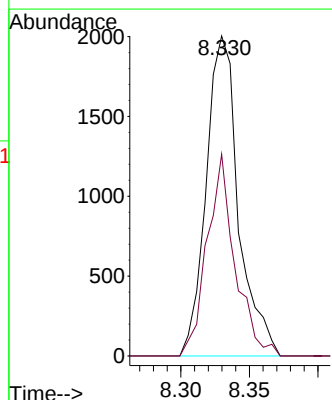
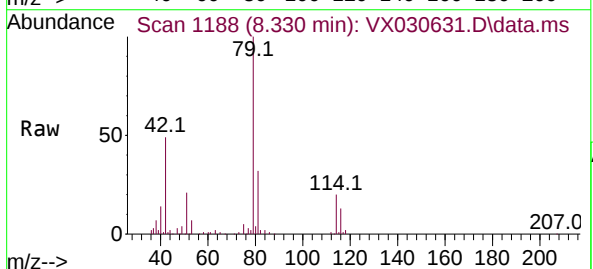
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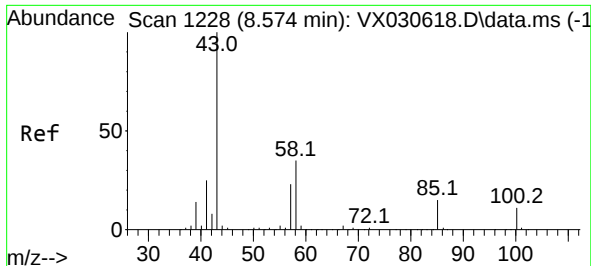
Tgt Ion: 75 Resp: 3287

Ion Ratio Lower Upper

75 100

77 63.1 22.4 41.6#





#40

4-Methyl-2-pentanone

Concen: 122.834 ug/L

RT: 8.580 min Scan# 11

Delta R.T. 0.006 min

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Acq: 15 Aug 2022 16:34

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MSVOA_X

ClientSampleId :

X3C26

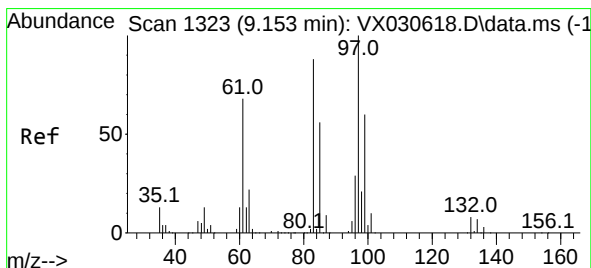
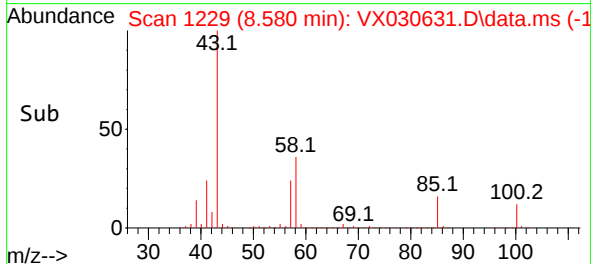
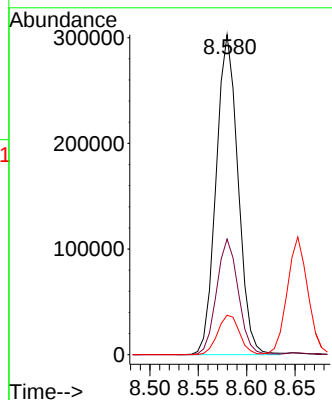
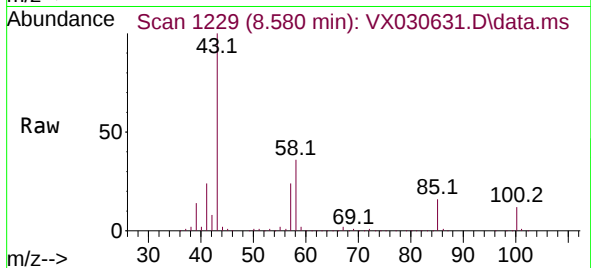
Tgt Ion: 43 Resp: 477384

Ion Ratio Lower Upper

43 100

58 35.8 29.0 43.6

100 12.4 10.5 15.7



#45

1,1,2-Trichloroethane

Concen: 31.716 ug/L

RT: 9.159 min Scan# 1324

Delta R.T. 0.006 min

Lab File: VX030631.D

Acq: 15 Aug 2022 16:34

Tgt Ion: 97 Resp: 65816

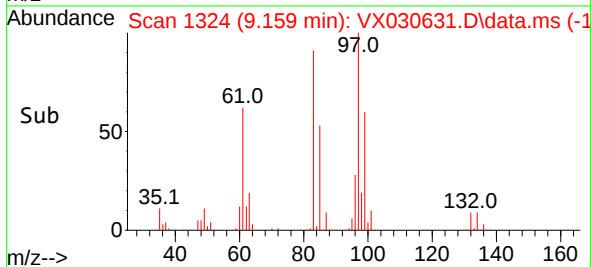
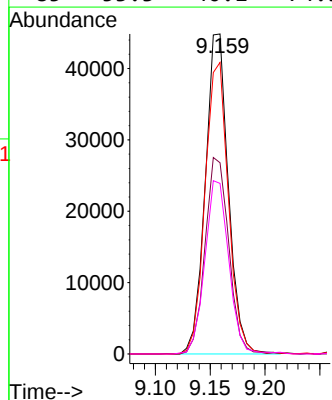
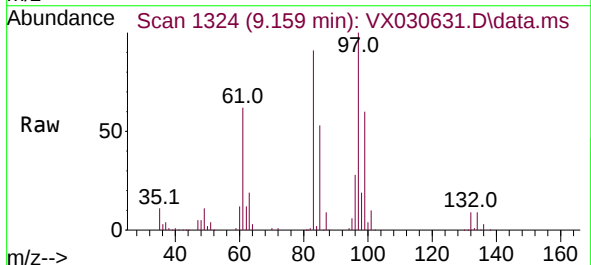
Ion Ratio Lower Upper

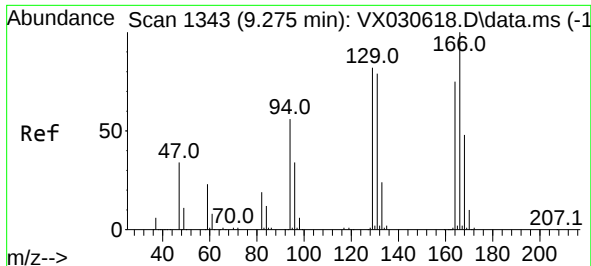
97 100

99 59.8 43.3 80.3

83 91.1 63.0 117.0

85 53.3 40.1 74.5



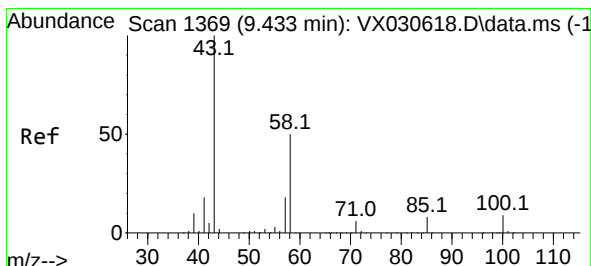
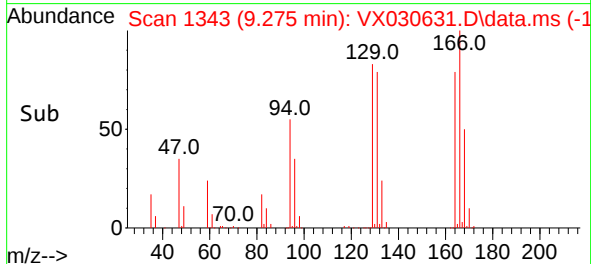
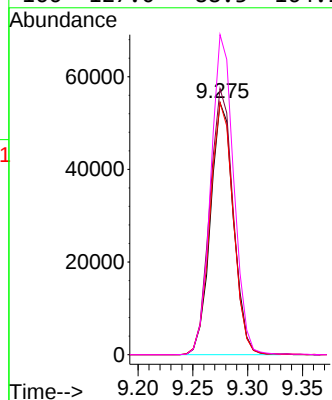
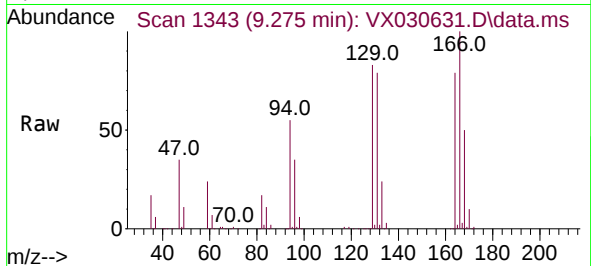


#46
Tetrachloroethene
Concen: 51.615 ug/L
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX030631.D
Acq: 15 Aug 2022 16:34

Instrument :
MSVOA_X
ClientSampleId :
X3C26

Tgt Ion:164 Resp: 79300

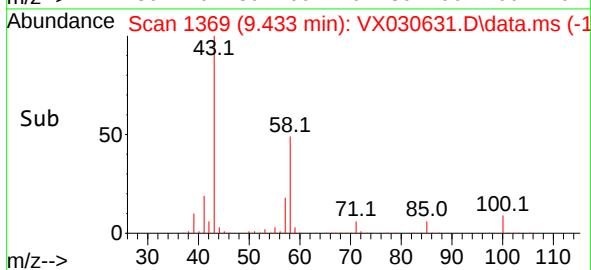
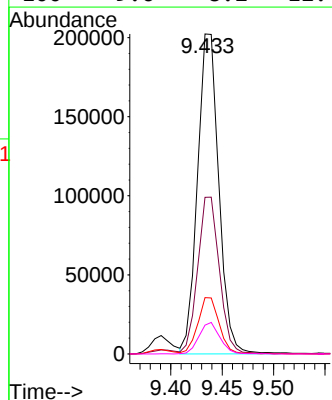
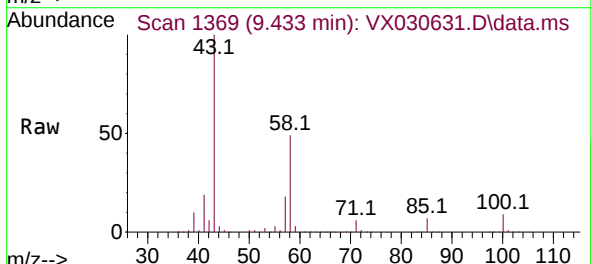
Ion	Ratio	Lower	Upper
164	100		
129	105.6	72.7	135.1
131	100.0	69.9	129.9
166	127.0	88.3	164.1

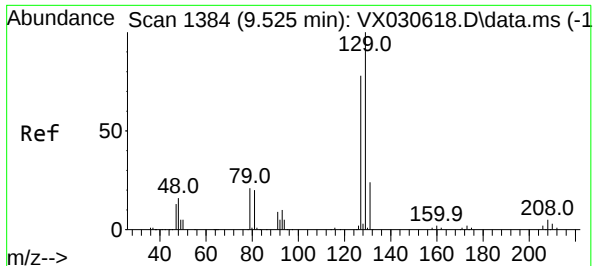


#48
2-Hexanone
Concen: 97.043 ug/L
RT: 9.433 min Scan# 1369
Delta R.T. 0.000 min
Lab File: VX030631.D
Acq: 15 Aug 2022 16:34

Tgt Ion: 43 Resp: 293037

Ion	Ratio	Lower	Upper
43	100		
58	49.8	40.4	60.6
57	17.7	14.6	22.0
100	9.6	8.2	12.4





#49

Dibromochloromethane

Concen: 36.293 ug/L

RT: 9.525 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX030631.D

Acq: 15 Aug 2022 16:34

Instrument :

MSVOA_X

ClientSampleId :

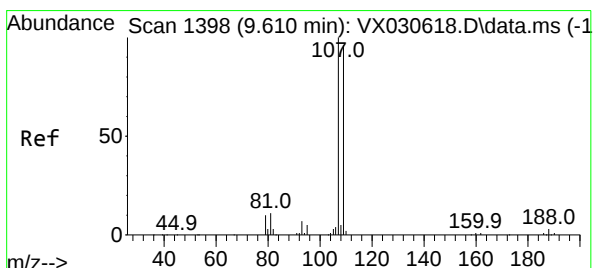
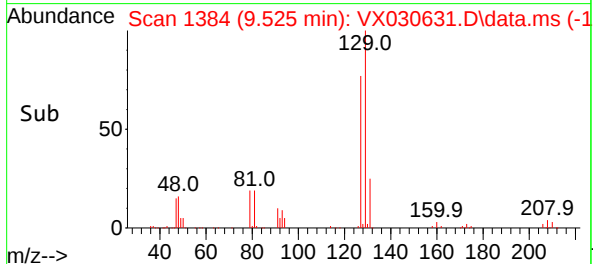
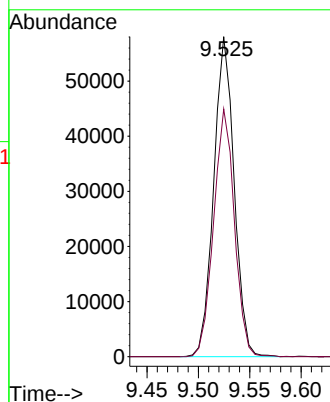
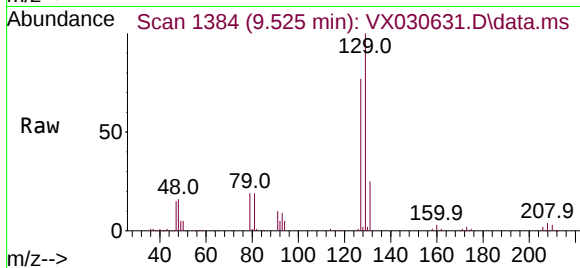
X3C26

Tgt Ion:129 Resp: 80125

Ion Ratio Lower Upper

129 100

127 77.4 55.6 103.2



#50

1,2-Dibromoethane

Concen: 119.826 ug/L

RT: 9.616 min Scan# 1399

Delta R.T. 0.006 min

Lab File: VX030631.D

Acq: 15 Aug 2022 16:34

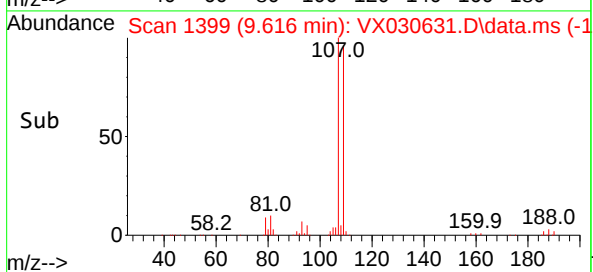
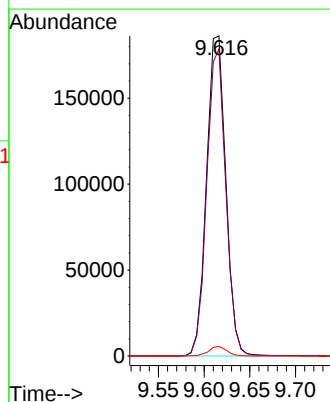
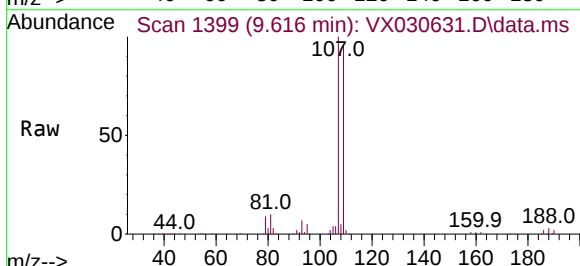
Tgt Ion:107 Resp: 273452

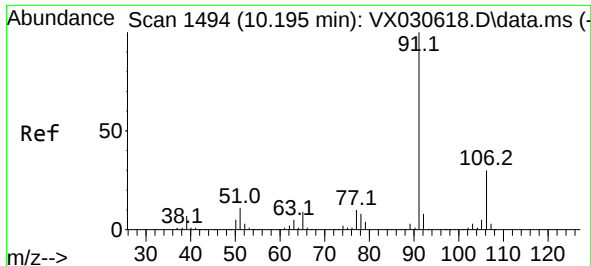
Ion Ratio Lower Upper

107 100

109 95.9 64.8 120.4

188 3.0 2.2 3.2





#52

Ethylbenzene

Concen: 77.632 ug/L

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX030631.D

Acq: 15 Aug 2022 16:34

Instrument :

MSVOA_X

ClientSampleId :

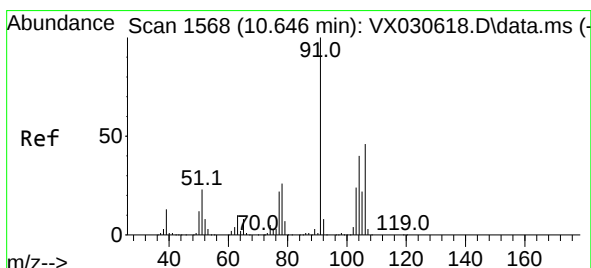
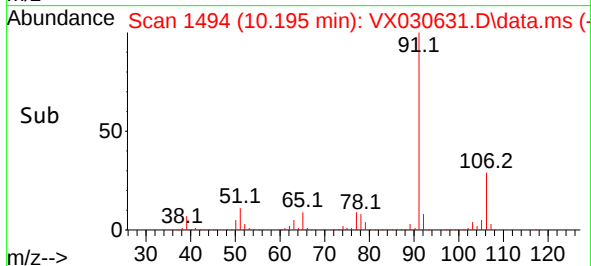
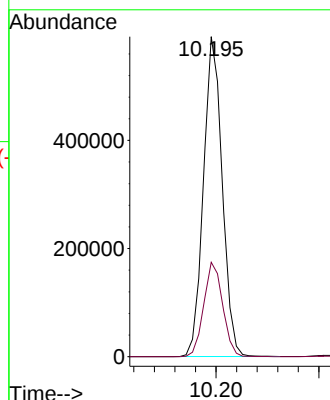
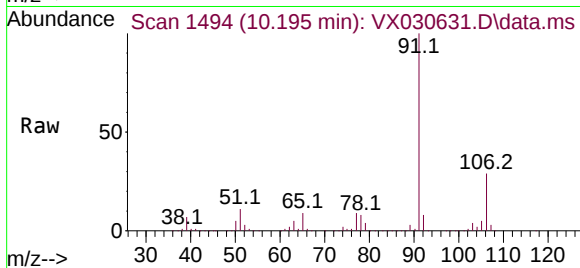
X3C26

Tgt Ion: 91 Resp: 750561

Ion Ratio Lower Upper

91 100

106 29.5 21.3 39.5



#54

o-Xylene

Concen: 31.620 ug/L

RT: 10.646 min Scan# 1568

Delta R.T. 0.000 min

Lab File: VX030631.D

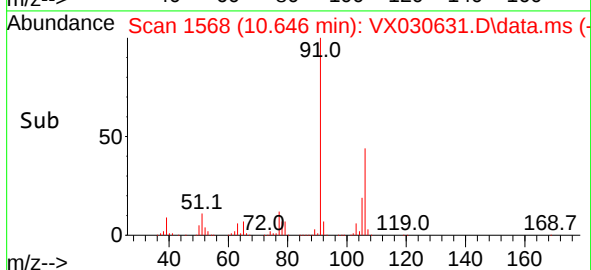
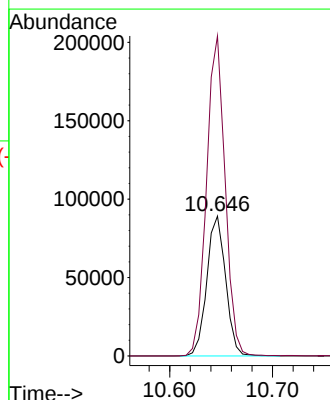
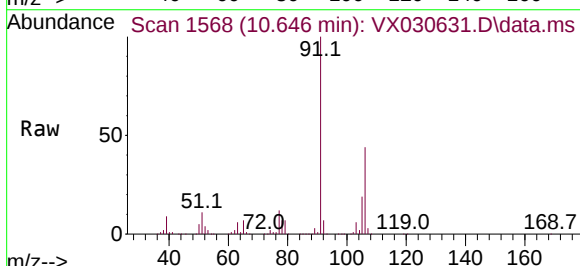
Acq: 15 Aug 2022 16:34

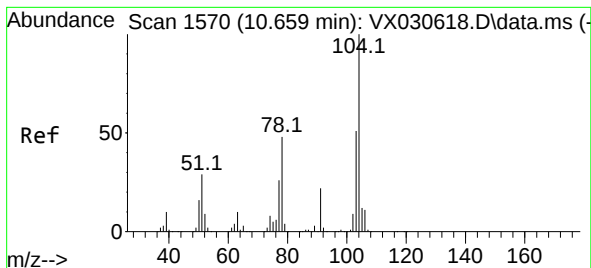
Tgt Ion: 106 Resp: 113544

Ion Ratio Lower Upper

106 100

91 228.9 157.8 293.0





#55

Styrene

Concen: 1.007 ug/L

RT: 10.646 min Scan# 1568

Delta R.T. -0.012 min

Lab File: VX030631.D

Acq: 15 Aug 2022 16:34

Instrument :

MSVOA_X

ClientSampleId :

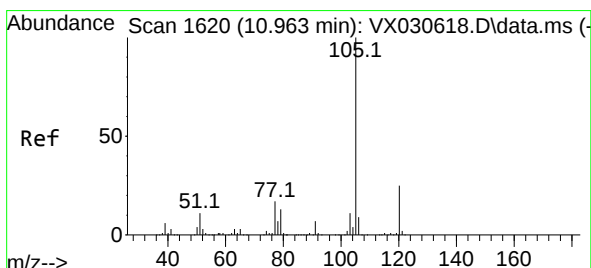
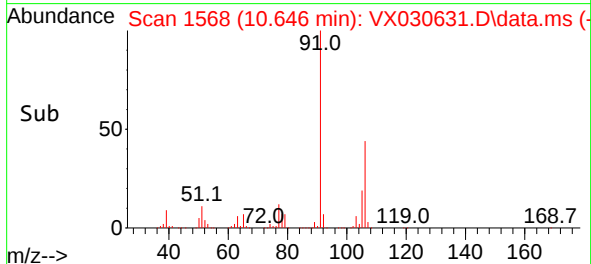
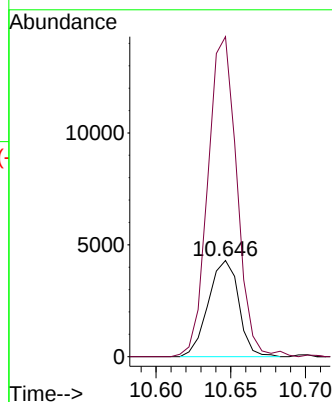
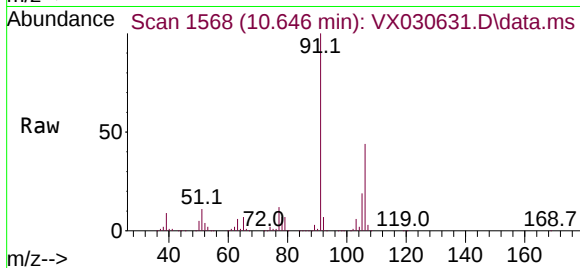
X3C26

Tgt Ion:104 Resp: 6086

Ion Ratio Lower Upper

104 100

78 332.5 33.2 61.7#



#60

Isopropylbenzene

Concen: 85.684 ug/L

RT: 10.963 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VX030631.D

Acq: 15 Aug 2022 16:34

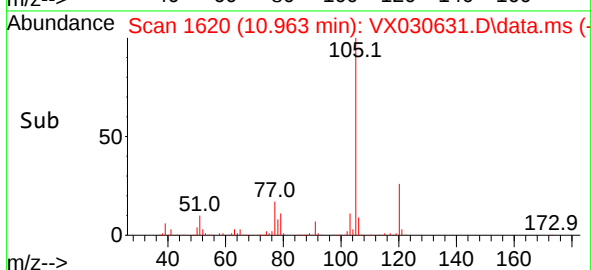
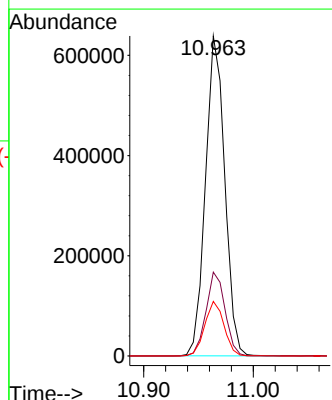
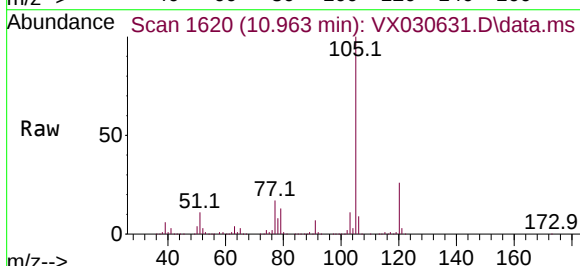
Tgt Ion:105 Resp: 779221

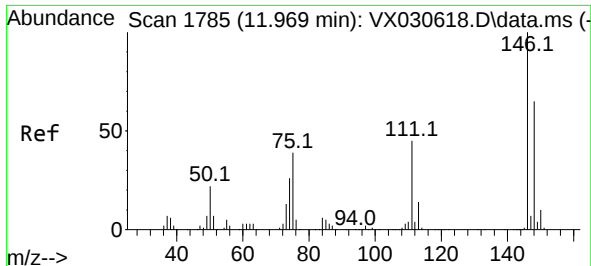
Ion Ratio Lower Upper

105 100

120 25.9 20.6 31.0

77 17.1 13.5 20.3

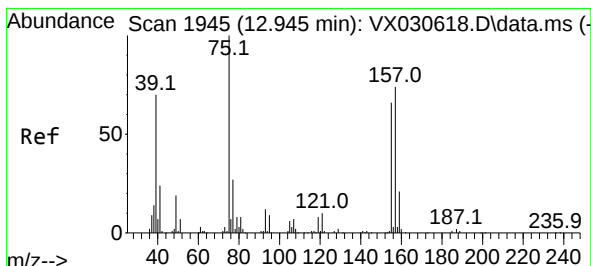
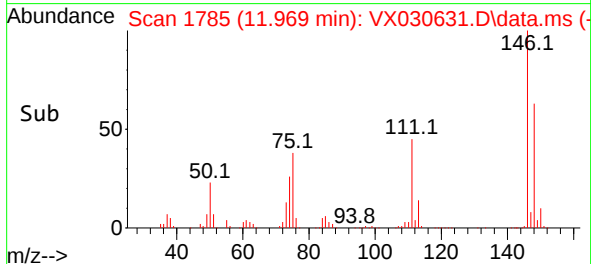
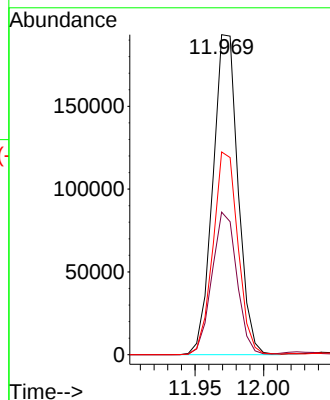
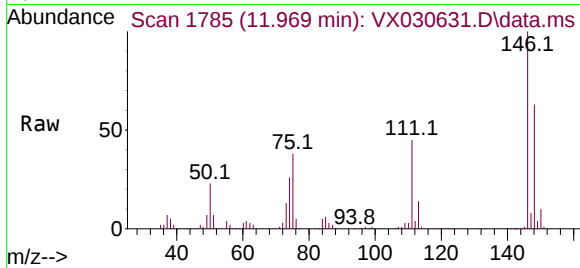




#64
1,3-Dichlorobenzene
Concen: 62.499 ug/L
RT: 11.969 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX030631.D
Acq: 15 Aug 2022 16:34

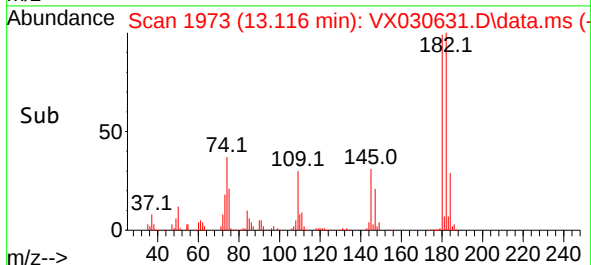
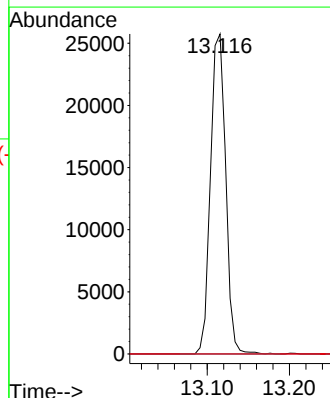
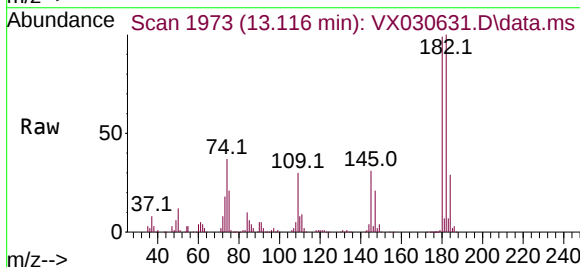
Instrument :
MSVOA_X
ClientSampleId :
X3C26

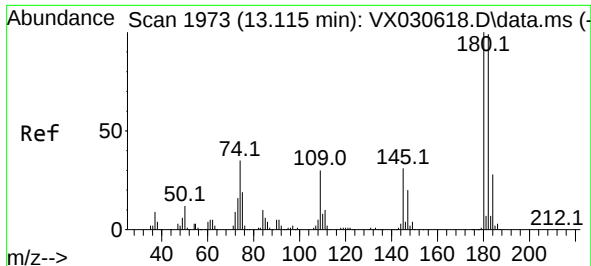
Tgt Ion:146 Resp: 247076
Ion Ratio Lower Upper
146 100
111 44.5 30.9 57.5
148 63.4 42.6 79.0



#68
1,2-Dibromo-3-chloropropane
Concen: 36.338 ug/L
RT: 13.116 min Scan# 1973
Delta R.T. 0.171 min
Lab File: VX030631.D
Acq: 15 Aug 2022 16:34

Tgt Ion: 75 Resp: 33027
Ion Ratio Lower Upper
75 100
155 0.0 57.1 85.7#
157 0.0 73.1 109.7#





#69

1,3,5-Trichlorobenzene

Concen: 51.693 ug/L

RT: 13.116 min Scan# 1973

Delta R.T. 0.000 min

Lab File: VX030631.D

Acq: 15 Aug 2022 16:34

Instrument :

MSVOA_X

ClientSampleId :

X3C26

Tgt Ion:180 Resp: 143312

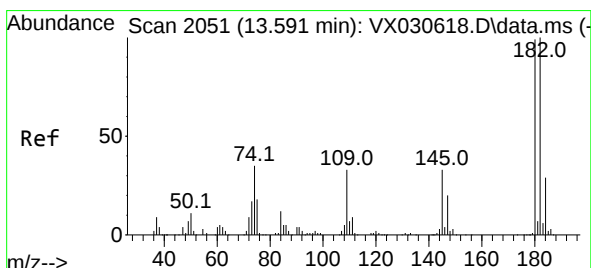
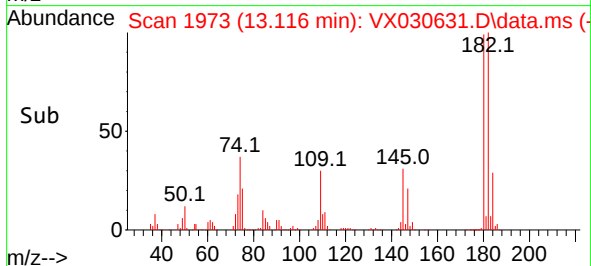
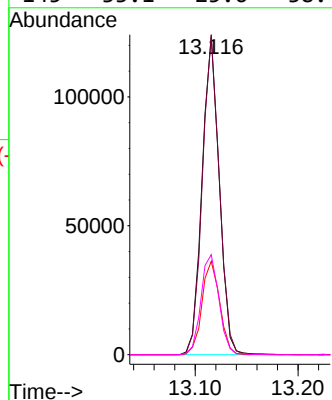
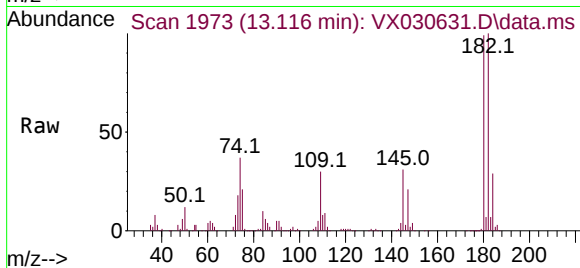
Ion Ratio Lower Upper

180 100

182 99.4 73.7 110.5

184 30.5 24.1 36.1

145 33.1 25.6 38.4



#70

1,2,4-trichlorobenzene

Concen: 50.878 ug/L

RT: 13.591 min Scan# 2051

Delta R.T. 0.000 min

Lab File: VX030631.D

Acq: 15 Aug 2022 16:34

Tgt Ion:180 Resp: 123877

Ion Ratio Lower Upper

180 100

182 96.0 72.7 109.1

145 33.2 26.6 40.0

