

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021422\
 Data File : VX027013.D
 Acq On : 14 Feb 2022 12:06
 Operator : JC/MD
 Sample : VIBLK
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VIBLK624

Quant Time: Feb 15 05:19:39 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML021422WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Feb 15 05:10:18 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.763	114	116138	50.000	ug/L	0.00
28) Chlorobenzene-d5	10.055	117	110784	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.024	152	53435	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.374	65	53337	51.739	ug/L	0.00
Spiked Amount 50.000	Range 60	- 135	Recovery	= 103.480%		
7) Chloroethane-d5	1.672	69	39222	59.296	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	= 118.600%		
11) 1,1-Dichloroethene-d2	2.313	63	83760	42.375	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	= 84.740%		
21) 2-Butanone-d5	4.459	46	82363	115.021	ug/L	0.00
Spiked Amount 100.000	Range 40	- 130	Recovery	= 115.020%		
24) Chloroform-d	5.062	84	101870	52.621	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	= 105.240%		
26) 1,2-Dichloroethane-d4	5.958	65	67451	53.760	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	= 107.520%		
32) Benzene-d6	5.977	84	211731	53.054	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	= 106.100%		
36) 1,2-Dichloropropane-d6	7.312	67	63833	53.846	ug/L	0.00
Spiked Amount 50.000	Range 70	- 120	Recovery	= 107.700%		
41) Toluene-d8	8.653	98	194636	53.304	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	= 106.600%		
43) trans-1,3-Dichloroprop...	8.952	79	28509	52.745	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	= 105.480%		
47) 2-Hexanone-d5	9.384	63	57729	112.639	ug/L	0.00
Spiked Amount 100.000	Range 45	- 130	Recovery	= 112.640%		
56) 1,1,2,2-Tetrachloroeth...	11.195	84	76459	54.574	ug/L	0.00
Spiked Amount 50.000	Range 65	- 120	Recovery	= 109.140%		
66) 1,2-Dichlorobenzene-d4	12.323	152	67663	55.745	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	= 111.500%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	946	0.759	ug/L	94
6) Bromomethane	1.618	94	713	1.699	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.313	101	861	0.973	ug/L	95
12) 1,1-Dichloroethene	2.325	96	1266	1.558	ug/L #	1
14) Carbon disulfide	2.514	76	5684	2.361	ug/L	99
17) trans-1,2-Dichloroethene	3.093	96	1017	1.183	ug/L	74
20) cis-1,2-Dichloroethene	4.495	96	787	0.834	ug/L	91
35) Methylcyclohexane	7.385	83	1333	0.861	ug/L	93
42) Toluene	8.720	91	5610	1.460	ug/L	96
44) trans-1,3-Dichloropropene	8.976	75	953	0.752	ug/L	95
52) Ethylbenzene	10.195	91	3055	0.739	ug/L	99
53) m,p-Xylene	10.305	106	1449	0.889	ug/L	88
55) Styrene	10.659	104	1886	0.714	ug/L	92
57) 1,1,2,2-Tetrachloroethane	11.207	83	1122	0.963	ug/L #	72
60) Isopropylbenzene	10.963	105	3103	0.804	ug/L	98
62) 1,3,5-Trimethylbenzene	11.457	105	2274	0.854	ug/L	95
63) 1,2,4-Trimethylbenzene	11.750	105	3050	0.943	ug/L	96
64) 1,3-Dichlorobenzene	11.969	146	2186	1.273	ug/L	98
65) 1,4-Dichlorobenzene	12.043	146	2580	1.493	ug/L	96

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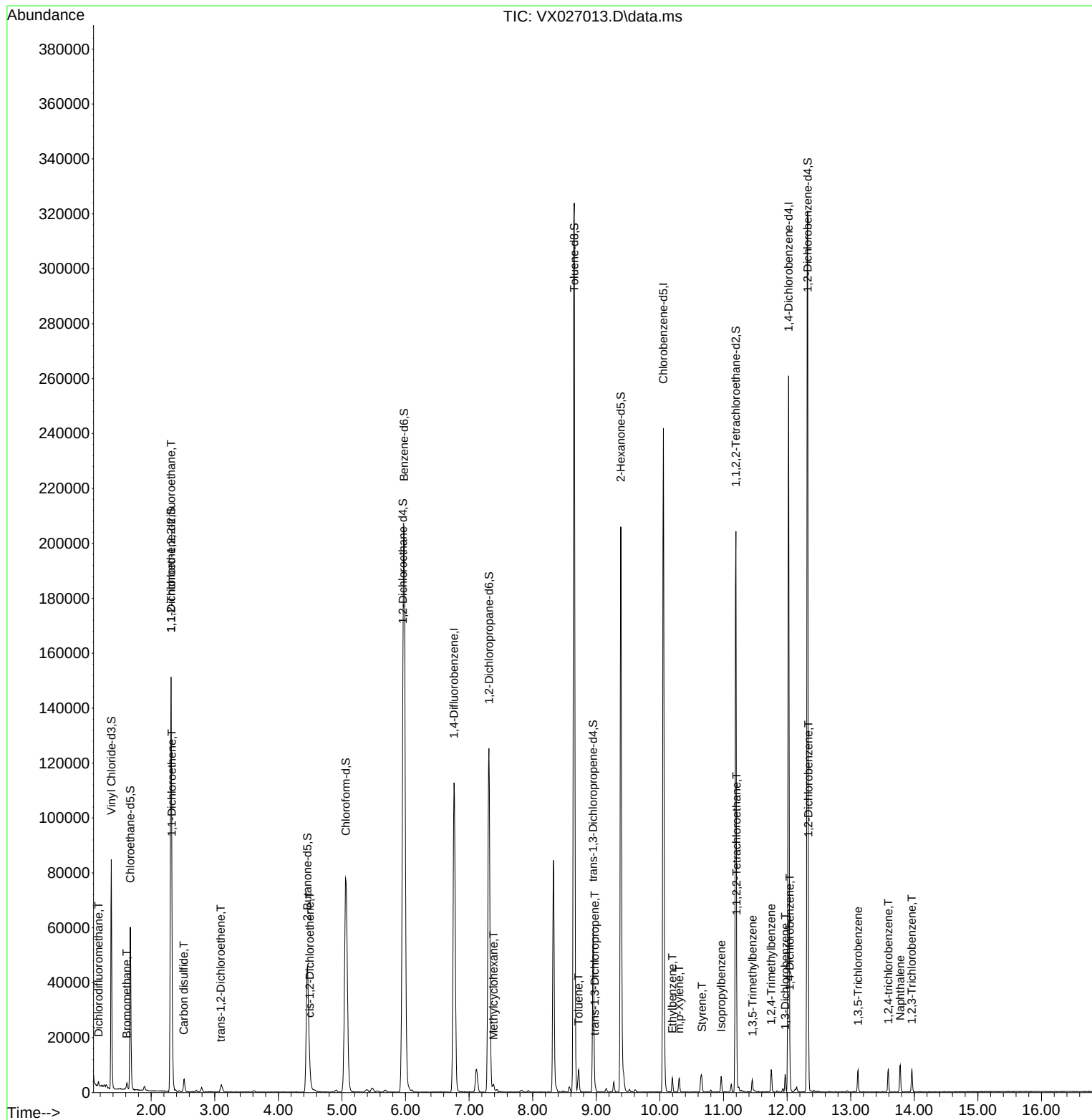
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	12.335	146	2063	1.242	ug/L #	84
69) 1,3,5-Trichlorobenzene	13.116	180	2149	1.821	ug/L	97
70) 1,2,4-trichlorobenzene	13.591	180	2248	2.158	ug/L	98
71) Naphthalene	13.780	128	6766	1.950	ug/L	98
72) 1,2,3-Trichlorobenzene	13.963	180	2252	2.162	ug/L	95

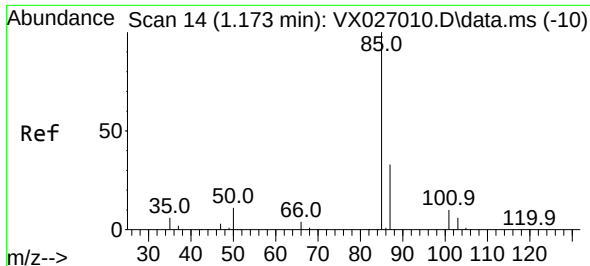
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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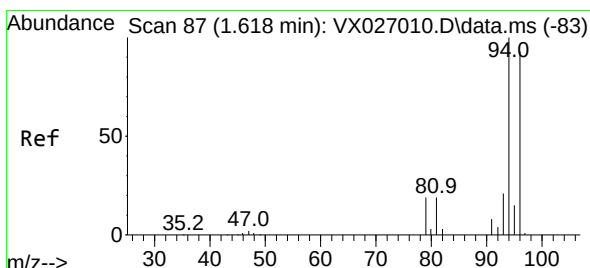
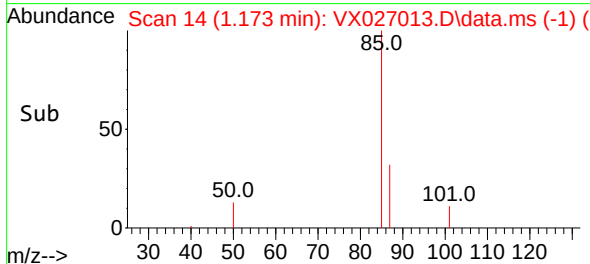
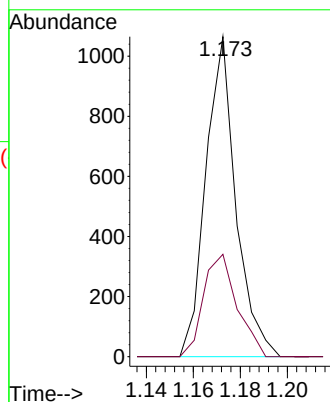
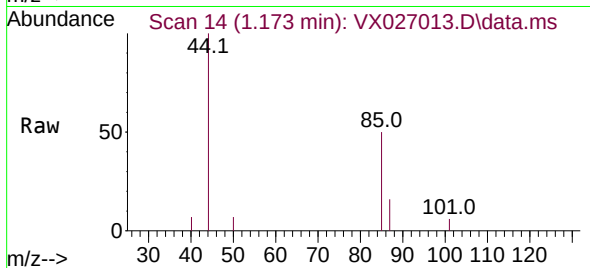




#2
Dichlorodifluoromethane
Concen: 0.759 ug/L
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX027013.D
Acq: 14 Feb 2022 12:06

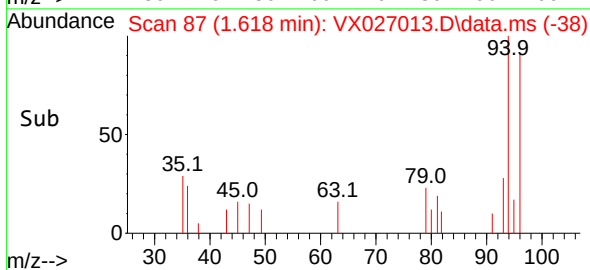
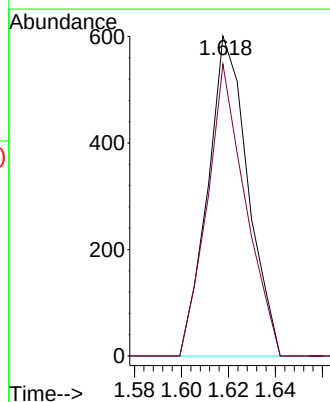
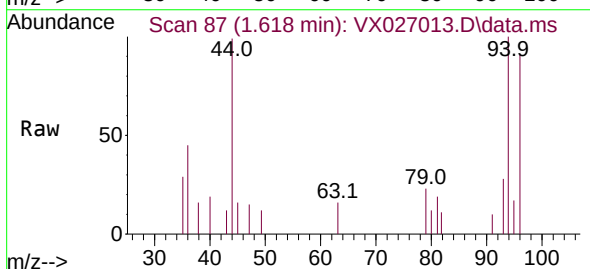
Instrument :
MSVOA_X
ClientSampleId :
VIBLK624

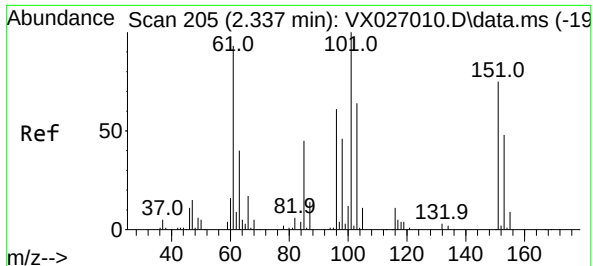
Tgt Ion: 85 Resp: 946
Ion Ratio Lower Upper
85 100
87 35.7 25.9 38.9



#6
Bromomethane
Concen: 1.699 ug/L
RT: 1.618 min Scan# 87
Delta R.T. -0.000 min
Lab File: VX027013.D
Acq: 14 Feb 2022 12:06

Tgt Ion: 94 Resp: 713
Ion Ratio Lower Upper
94 100
96 91.2 64.9 120.5

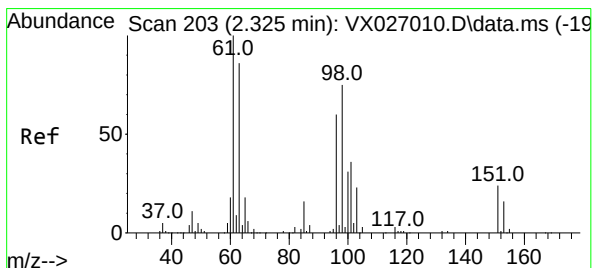
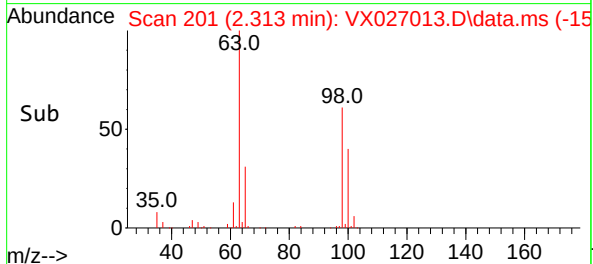
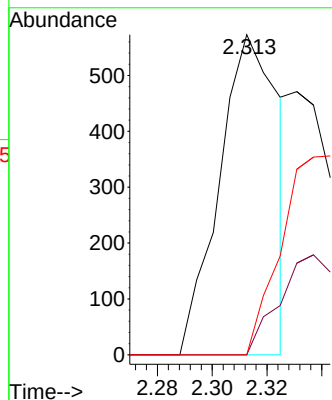
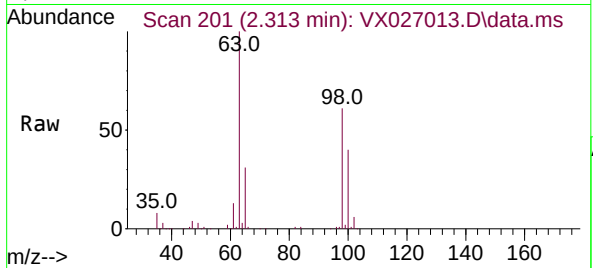




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.973 ug/L
 RT: 2.313 min Scan# 205
 Delta R.T. -0.024 min
 Lab File: VX027013.D
 Acq: 14 Feb 2022 12:06

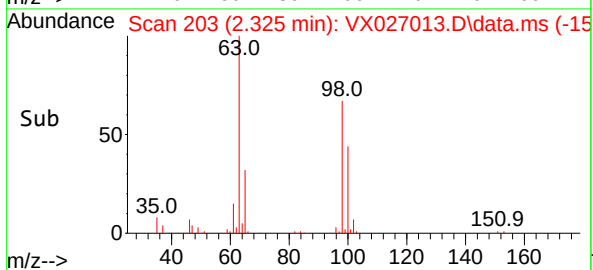
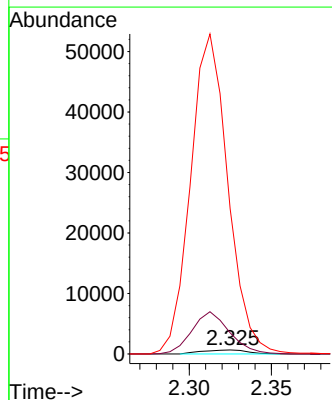
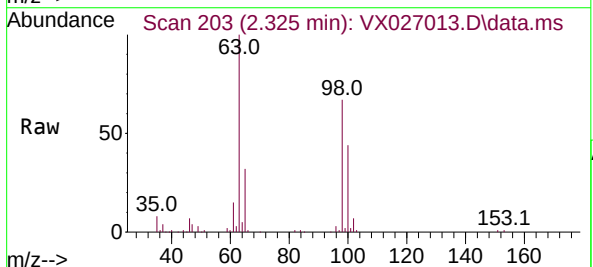
Instrument :
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 ClientSampleId :
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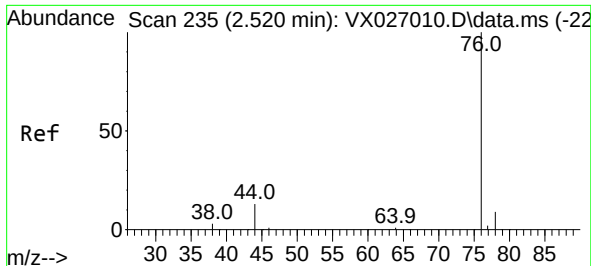
Tgt Ion:101 Resp: 861
 Ion Ratio Lower Upper
 101 100
 85 35.1 33.9 50.9
 151 74.6 60.7 91.1



#12
 1,1-Dichloroethene
 Concen: 1.558 ug/L
 RT: 2.325 min Scan# 203
 Delta R.T. -0.000 min
 Lab File: VX027013.D
 Acq: 14 Feb 2022 12:06

Tgt Ion: 96 Resp: 1266
 Ion Ratio Lower Upper
 96 100
 61 535.3 118.2 219.4#
 63 3685.9 109.6 203.4#

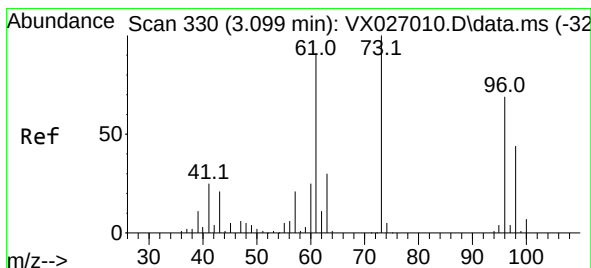
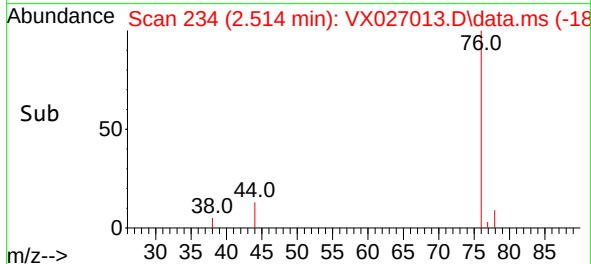
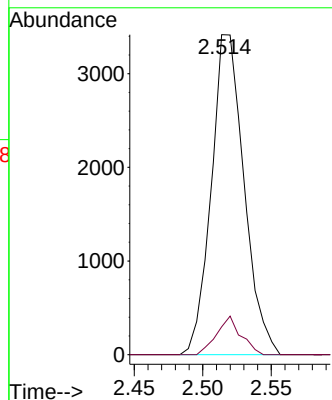
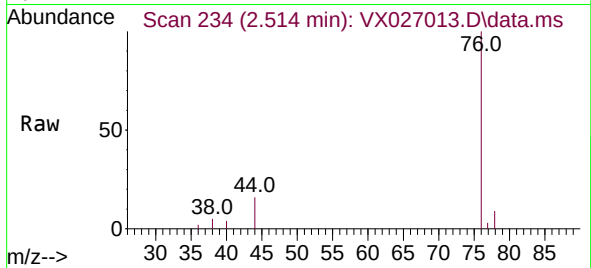




#14
Carbon disulfide
Concen: 2.361 ug/L
RT: 2.514 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX027013.D
Acq: 14 Feb 2022 12:06

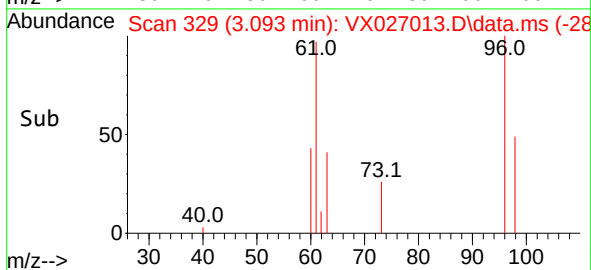
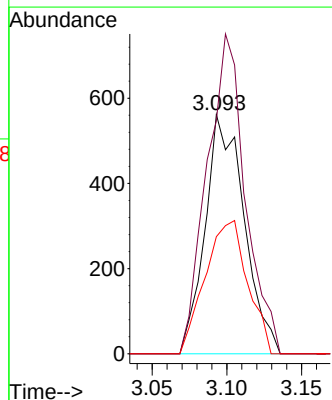
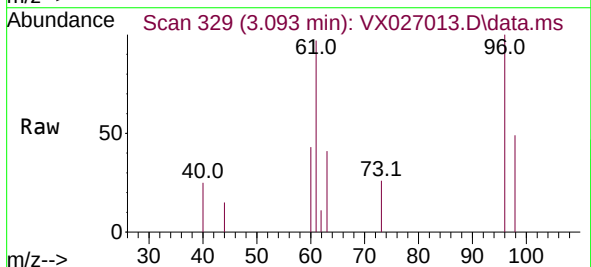
Instrument :
MSVOA_X
ClientSampleId :
VIBLK624

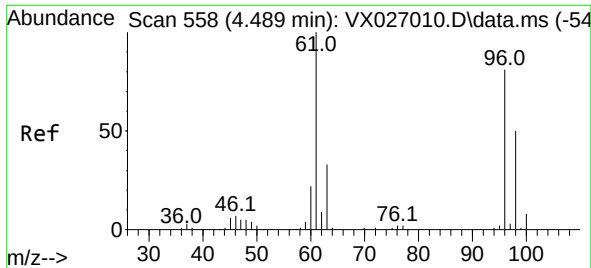
Tgt Ion: 76 Resp: 5684
Ion Ratio Lower Upper
76 100
78 8.7 7.1 10.7



#17
trans-1,2-Dichloroethene
Concen: 1.183 ug/L
RT: 3.093 min Scan# 329
Delta R.T. -0.006 min
Lab File: VX027013.D
Acq: 14 Feb 2022 12:06

Tgt Ion: 96 Resp: 1017
Ion Ratio Lower Upper
96 100
61 97.3 93.0 172.6
98 48.9 44.3 82.3



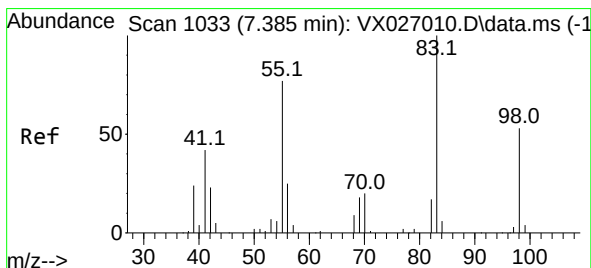
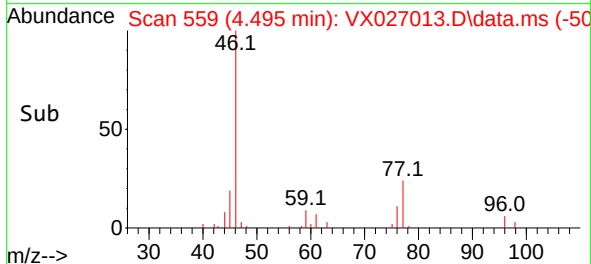
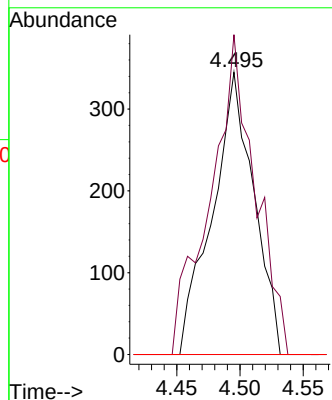
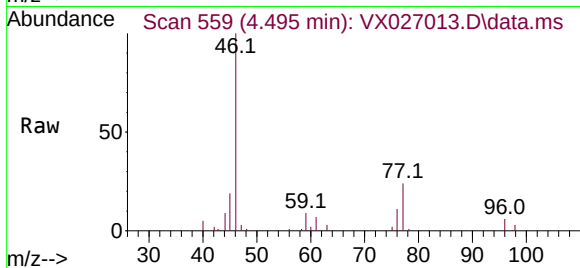


#20
 cis-1,2-Dichloroethene
 Concen: 0.834 ug/L
 RT: 4.495 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VX027013.D
 Acq: 14 Feb 2022 12:06

Instrument :
 MSVOA_X
 ClientSampleId :
 VIBLK624

Tgt Ion: 96 Resp: 787

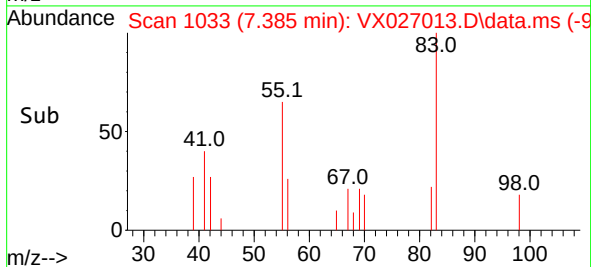
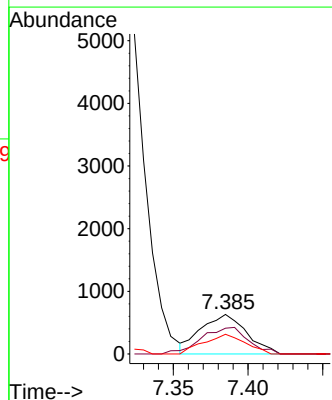
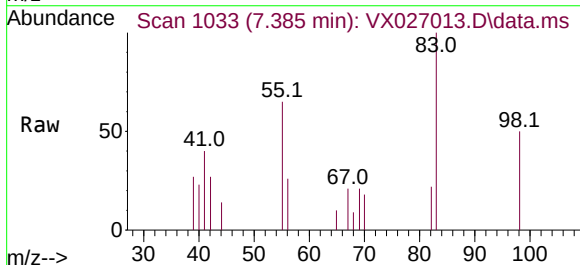
Ion	Ratio	Lower	Upper
96	100		
61	113.3	86.7	161.1
68	0.0	0.0	0.0

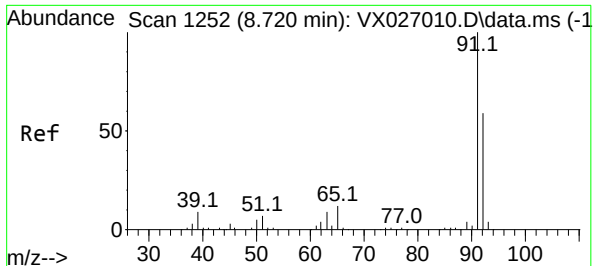


#35
 Methylcyclohexane
 Concen: 0.861 ug/L
 RT: 7.385 min Scan# 1033
 Delta R.T. -0.000 min
 Lab File: VX027013.D
 Acq: 14 Feb 2022 12:06

Tgt Ion: 83 Resp: 1333

Ion	Ratio	Lower	Upper
83	100		
55	69.2	60.6	90.8
98	45.5	39.8	59.8





#42

Toluene

Concen: 1.460 ug/L

RT: 8.720 min Scan# 1252

Delta R.T. -0.000 min

Lab File: VX027013.D

Acq: 14 Feb 2022 12:06

Instrument :

MSVOA_X

ClientSampleId :

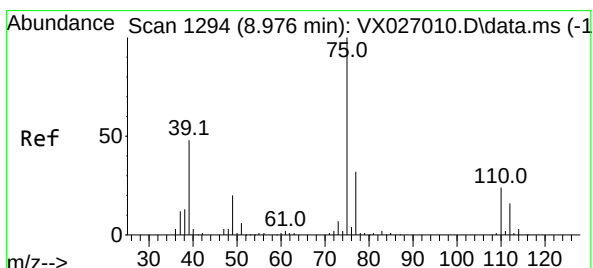
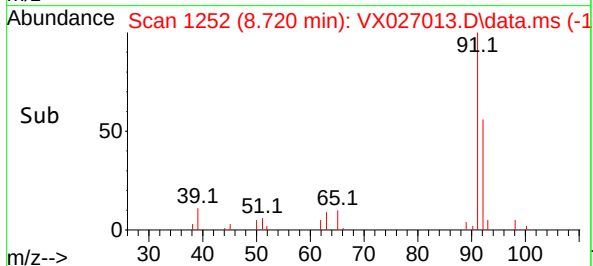
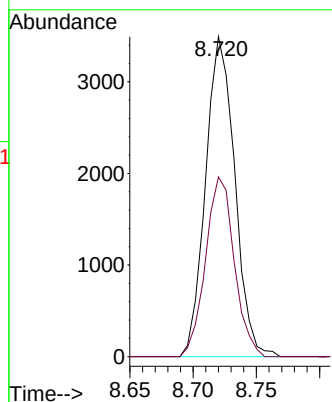
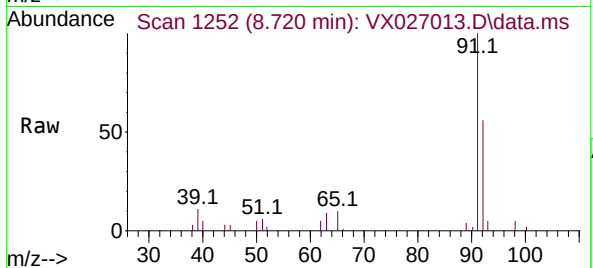
VIBLK624

Tgt Ion: 91 Resp: 5610

Ion Ratio Lower Upper

91 100

92 56.2 41.5 77.1



#44

trans-1,3-Dichloropropene

Concen: 0.752 ug/L

RT: 8.976 min Scan# 1294

Delta R.T. -0.000 min

Lab File: VX027013.D

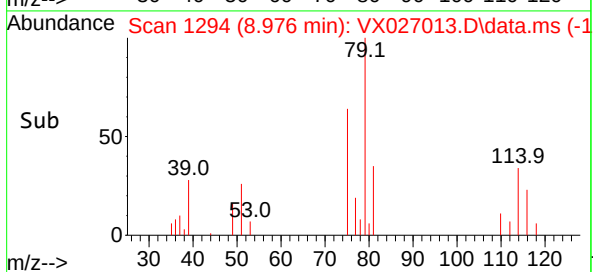
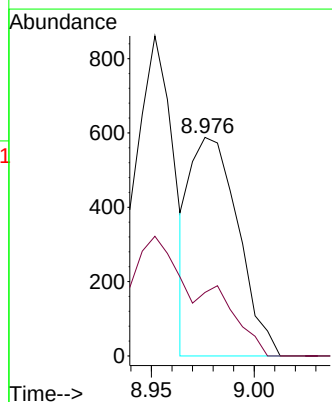
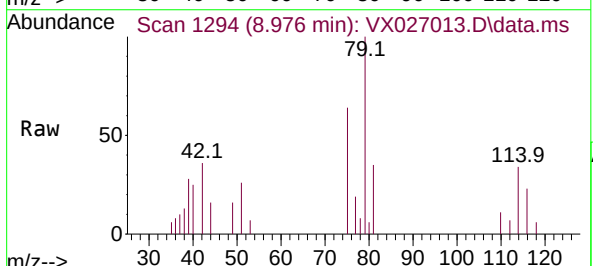
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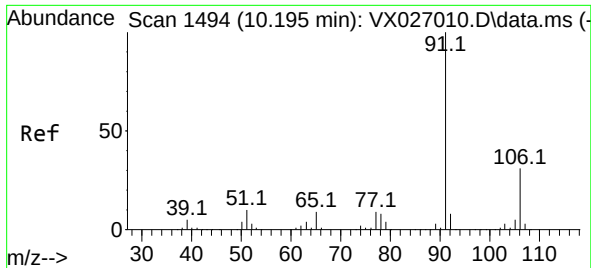
Tgt Ion: 75 Resp: 953

Ion Ratio Lower Upper

75 100

77 29.1 22.3 41.3

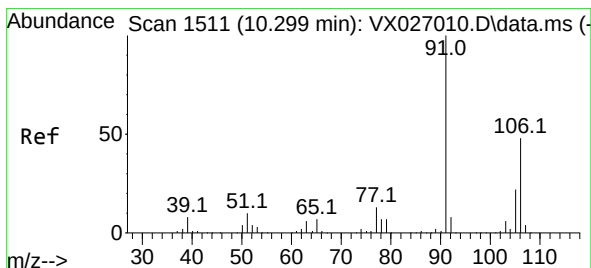
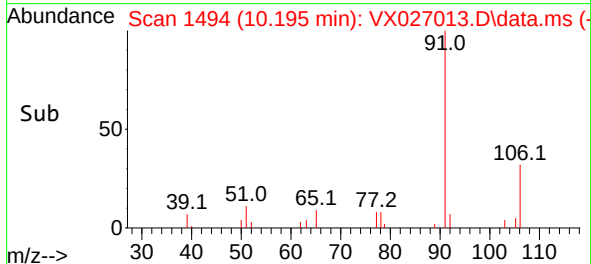
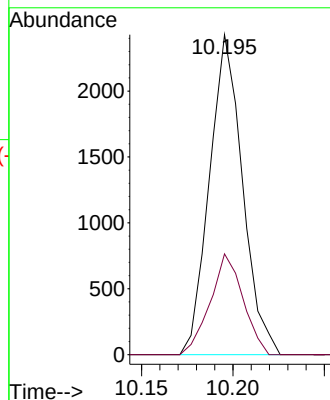
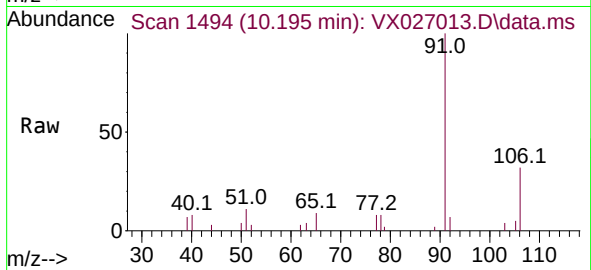




#52
Ethylbenzene
Concen: 0.739 ug/L
RT: 10.195 min Scan# 1494
Delta R.T. -0.000 min
Lab File: VX027013.D
Acq: 14 Feb 2022 12:06

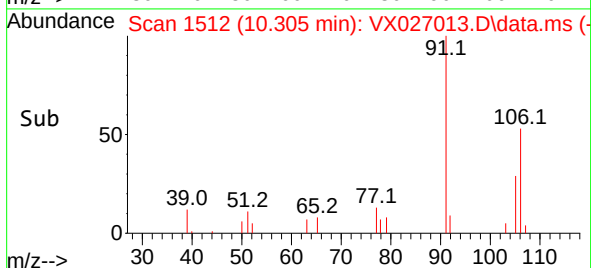
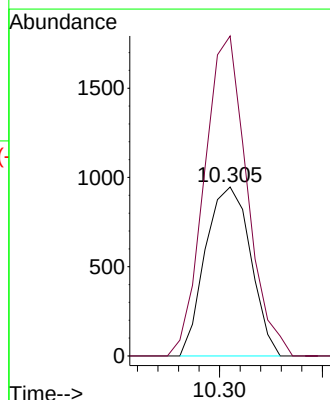
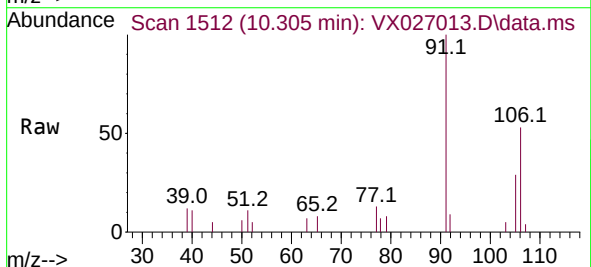
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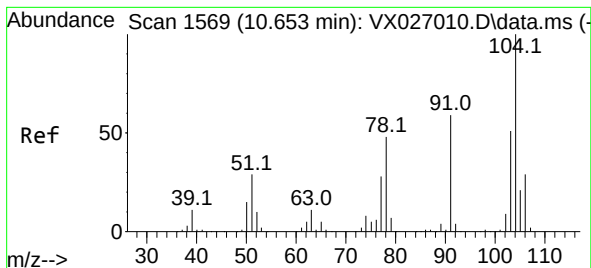
Tgt Ion: 91 Resp: 3055
Ion Ratio Lower Upper
91 100
106 31.5 21.7 40.3



#53
m,p-Xylene
Concen: 0.889 ug/L
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX027013.D
Acq: 14 Feb 2022 12:06

Tgt Ion: 106 Resp: 1449
Ion Ratio Lower Upper
106 100
91 189.3 145.7 270.5





#55

Styrene

Concen: 0.714 ug/L

RT: 10.659 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX027013.D

Acq: 14 Feb 2022 12:06

Instrument :

MSVOA_X

ClientSampleId :

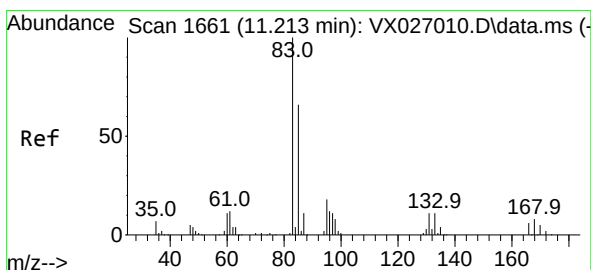
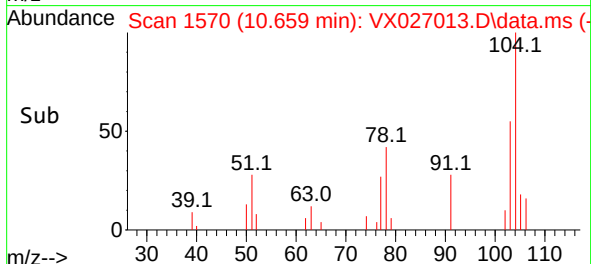
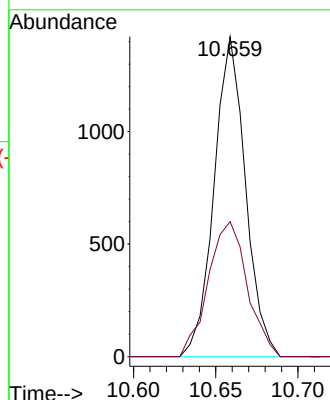
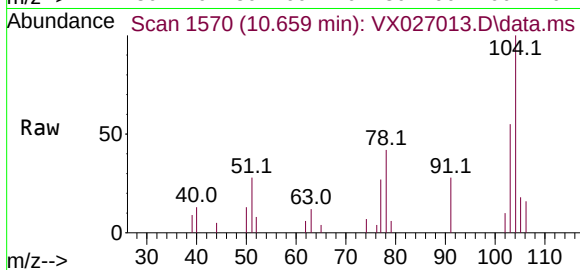
VIBLK624

Tgt Ion:104 Resp: 1886

Ion Ratio Lower Upper

104 100

78 42.2 33.3 61.9



#57

1,1,2,2-Tetrachloroethane

Concen: 0.963 ug/L

RT: 11.207 min Scan# 1660

Delta R.T. -0.006 min

Lab File: VX027013.D

Acq: 14 Feb 2022 12:06

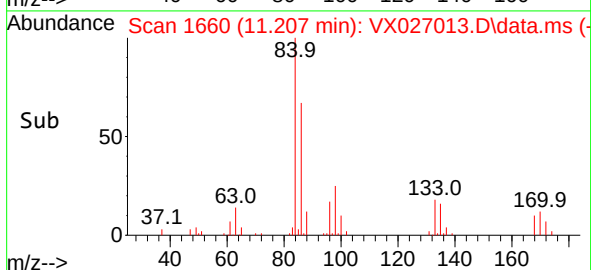
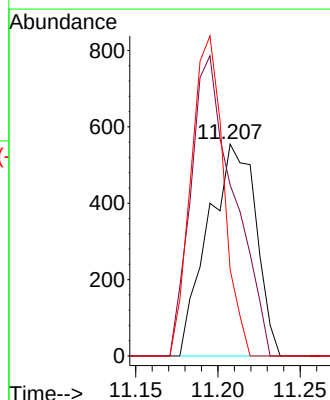
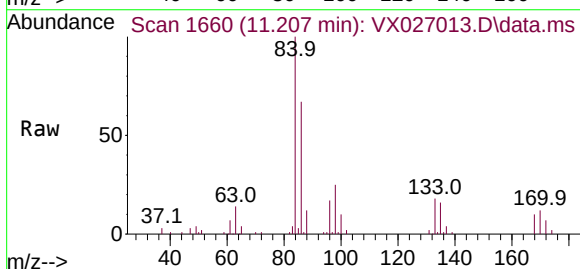
Tgt Ion: 83 Resp: 1122

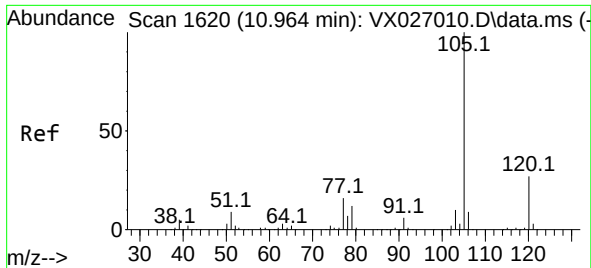
Ion Ratio Lower Upper

83 100

85 80.7 45.8 85.2

131 40.7 8.5 12.7#

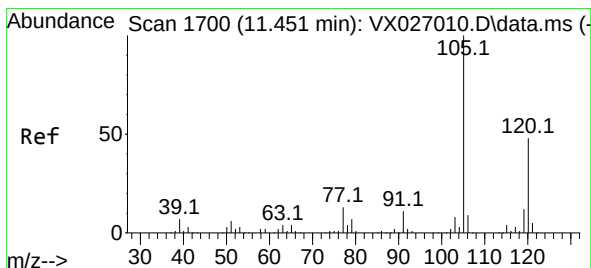
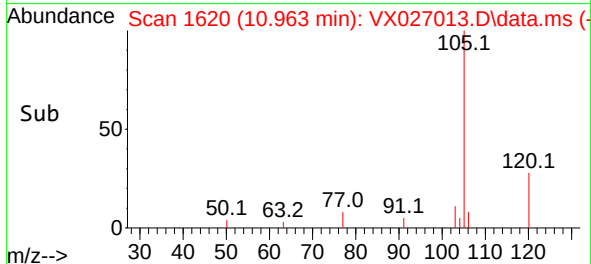
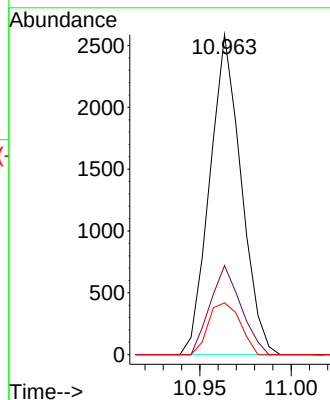
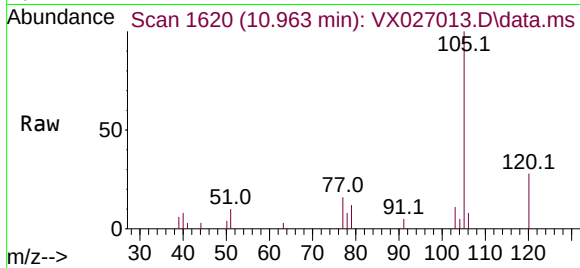




#60
Isopropylbenzene
Concen: 0.804 ug/L
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX027013.D
Acq: 14 Feb 2022 12:06

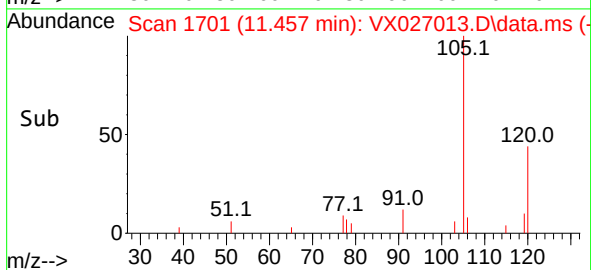
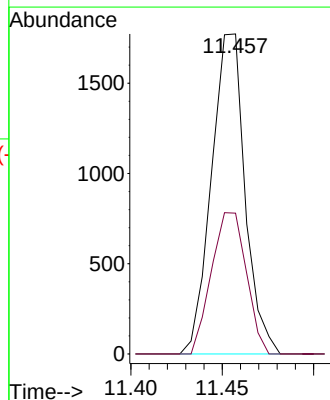
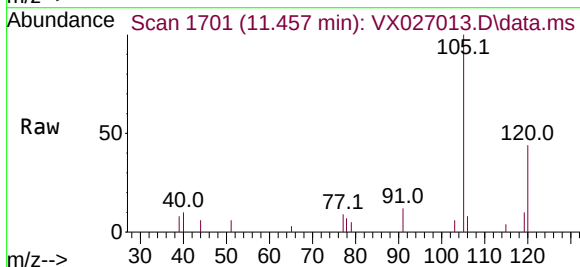
Instrument :
MSVOA_X
ClientSampleId :
VIBLK624

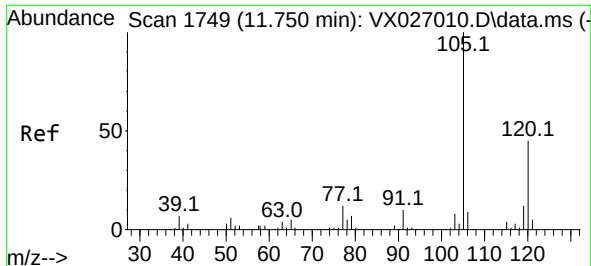
Tgt Ion:105 Resp: 3103
Ion Ratio Lower Upper
105 100
120 27.2 21.2 31.8
77 16.4 12.5 18.7



#62
1,3,5-Trimethylbenzene
Concen: 0.854 ug/L
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX027013.D
Acq: 14 Feb 2022 12:06

Tgt Ion:105 Resp: 2274
Ion Ratio Lower Upper
105 100
120 45.8 39.1 58.7

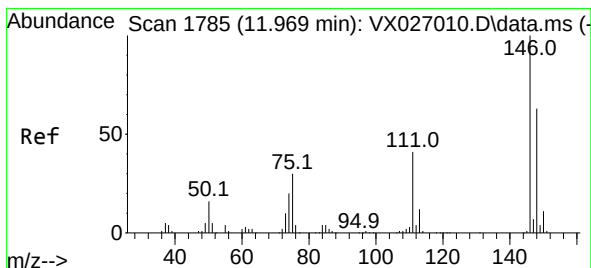
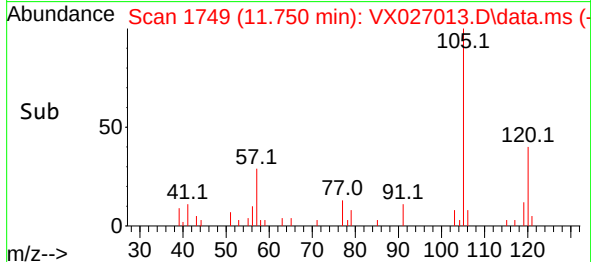
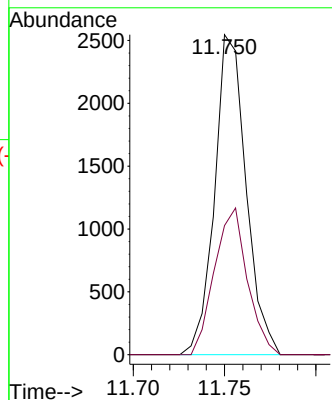
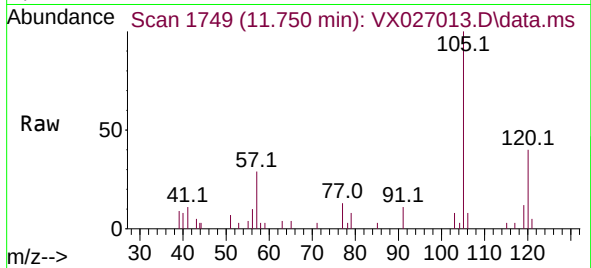




#63
1,2,4-Trimethylbenzene
Concen: 0.943 ug/L
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX027013.D
Acq: 14 Feb 2022 12:06

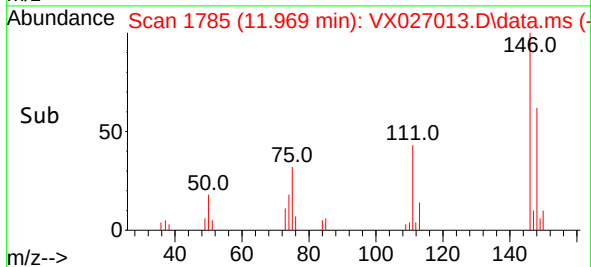
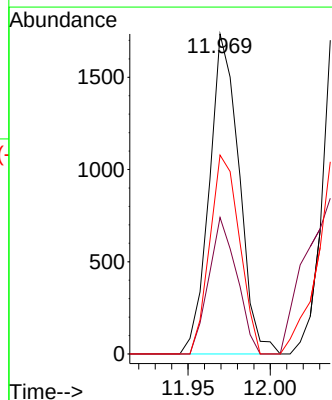
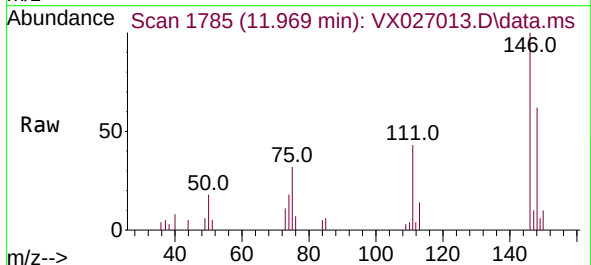
Instrument :
MSVOA_X
ClientSampleId :
VIBLK624

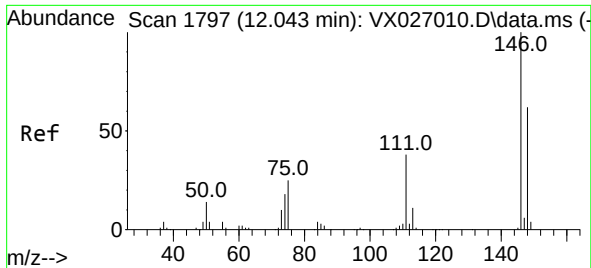
Tgt Ion:105 Resp: 3050
Ion Ratio Lower Upper
105 100
120 47.9 36.1 54.1



#64
1,3-Dichlorobenzene
Concen: 1.273 ug/L
RT: 11.969 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VX027013.D
Acq: 14 Feb 2022 12:06

Tgt Ion:146 Resp: 2186
Ion Ratio Lower Upper
146 100
111 42.7 28.3 52.7
148 62.1 43.8 81.4

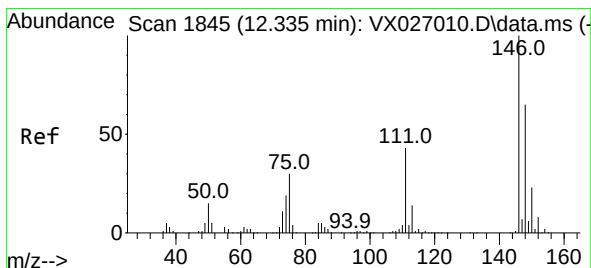
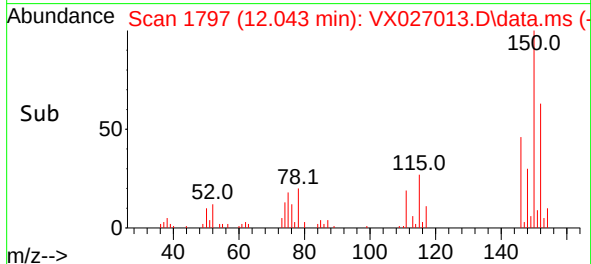
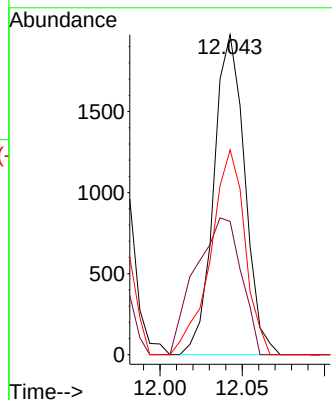
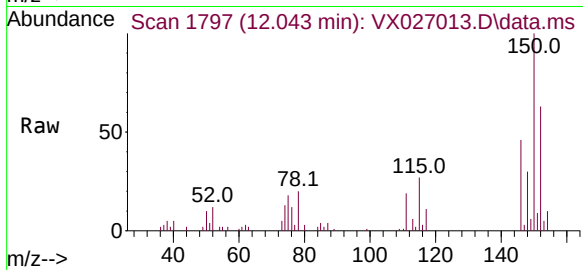




#65
1,4-Dichlorobenzene
Concen: 1.493 ug/L
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX027013.D
Acq: 14 Feb 2022 12:06

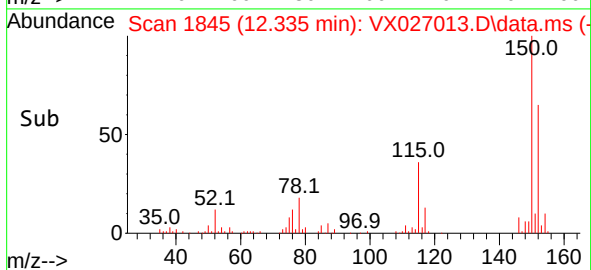
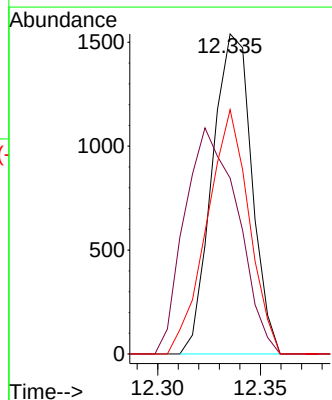
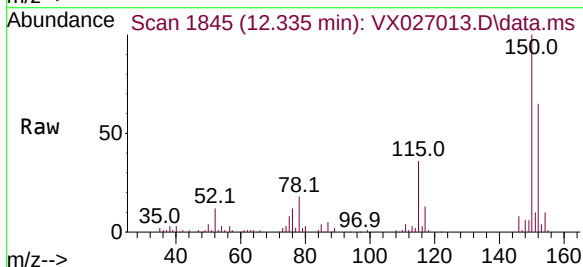
Instrument :
MSVOA_X
ClientSampleId :
VIBLK624

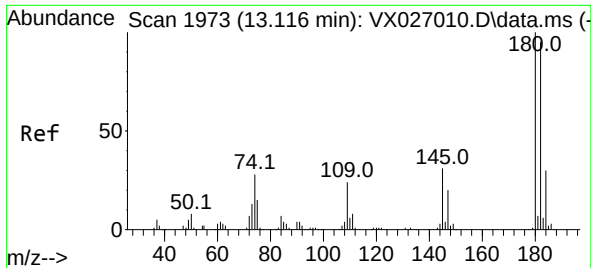
Tgt Ion:146 Resp: 2580
Ion Ratio Lower Upper
146 100
111 41.6 26.5 49.3
148 64.0 43.5 80.7



#67
1,2-Dichlorobenzene
Concen: 1.242 ug/L
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX027013.D
Acq: 14 Feb 2022 12:06

Tgt Ion:146 Resp: 2063
Ion Ratio Lower Upper
146 100
111 54.9 34.5 51.7#
148 76.4 51.9 77.9





#69

1,3,5-Trichlorobenzene

Concen: 1.821 ug/L

RT: 13.116 min Scan# 1973

Delta R.T. -0.000 min

Lab File: VX027013.D

Acq: 14 Feb 2022 12:06

Instrument :

MSVOA_X

ClientSampleId :

VIBLK624

Tgt Ion:180 Resp: 2149

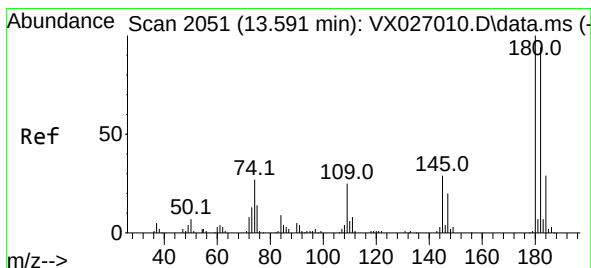
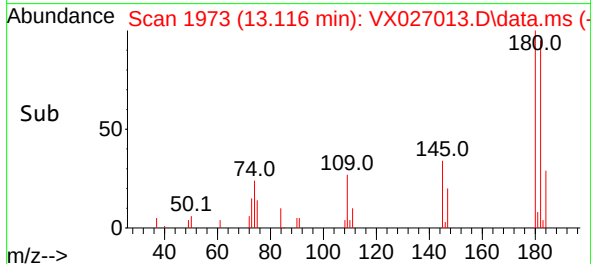
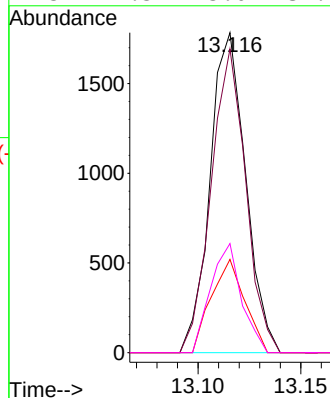
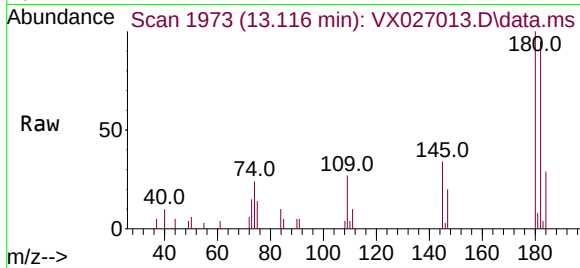
Ion Ratio Lower Upper

180 100

182 92.3 75.6 113.4

184 27.4 23.6 35.4

145 29.5 25.0 37.4



#70

1,2,4-trichlorobenzene

Concen: 2.158 ug/L

RT: 13.591 min Scan# 2051

Delta R.T. -0.000 min

Lab File: VX027013.D

Acq: 14 Feb 2022 12:06

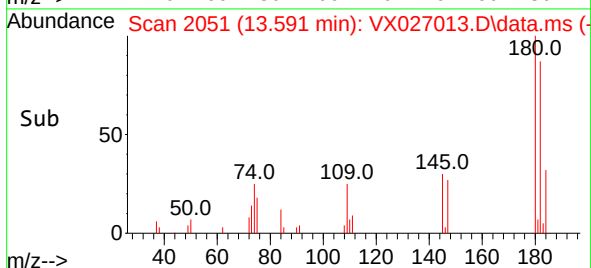
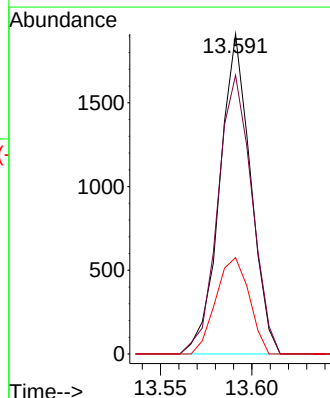
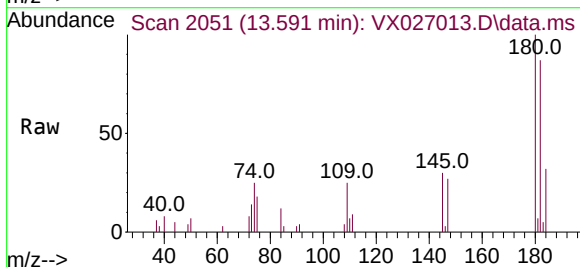
Tgt Ion:180 Resp: 2248

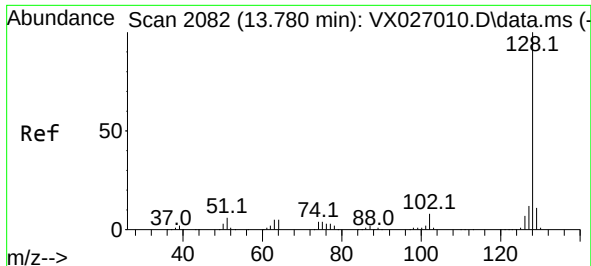
Ion Ratio Lower Upper

180 100

182 95.7 75.4 113.2

145 32.4 25.0 37.4

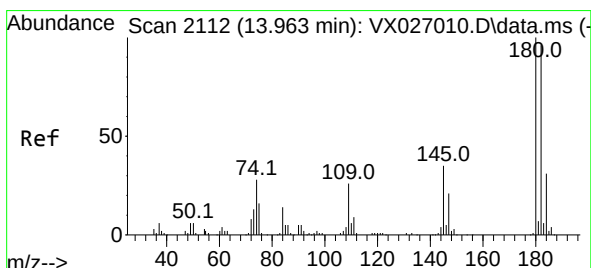
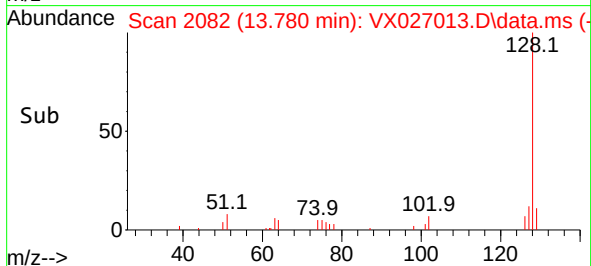
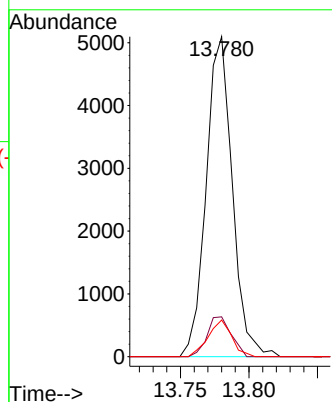
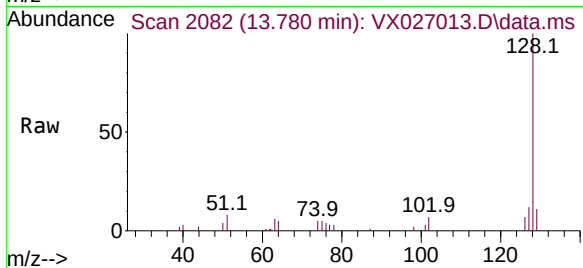




#71
Naphthalene
Concen: 1.950 ug/L
RT: 13.780 min Scan# 2082
Delta R.T. -0.000 min
Lab File: VX027013.D
Acq: 14 Feb 2022 12:06

Instrument :
MSVOA_X
ClientSampleId :
VIBLK624

Tgt Ion:128	Resp:	6766	
Ion	Ratio	Lower	Upper
128	100		
127	11.5	10.2	15.2
129	10.3	8.8	13.2



#72
1,2,3-Trichlorobenzene
Concen: 2.162 ug/L
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX027013.D
Acq: 14 Feb 2022 12:06

Tgt Ion:180	Resp:	2252	
Ion	Ratio	Lower	Upper
180	100		
182	89.3	77.0	115.4
145	33.7	27.4	41.0

