

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022822\
 Data File : VX027227.D
 Acq On : 28 Feb 2022 17:59
 Operator : JC/MD
 Sample : N1688-11DL 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 01 00:45:25 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022322W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 23 13:06:57 2022
 Response via : Initial Calibration

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

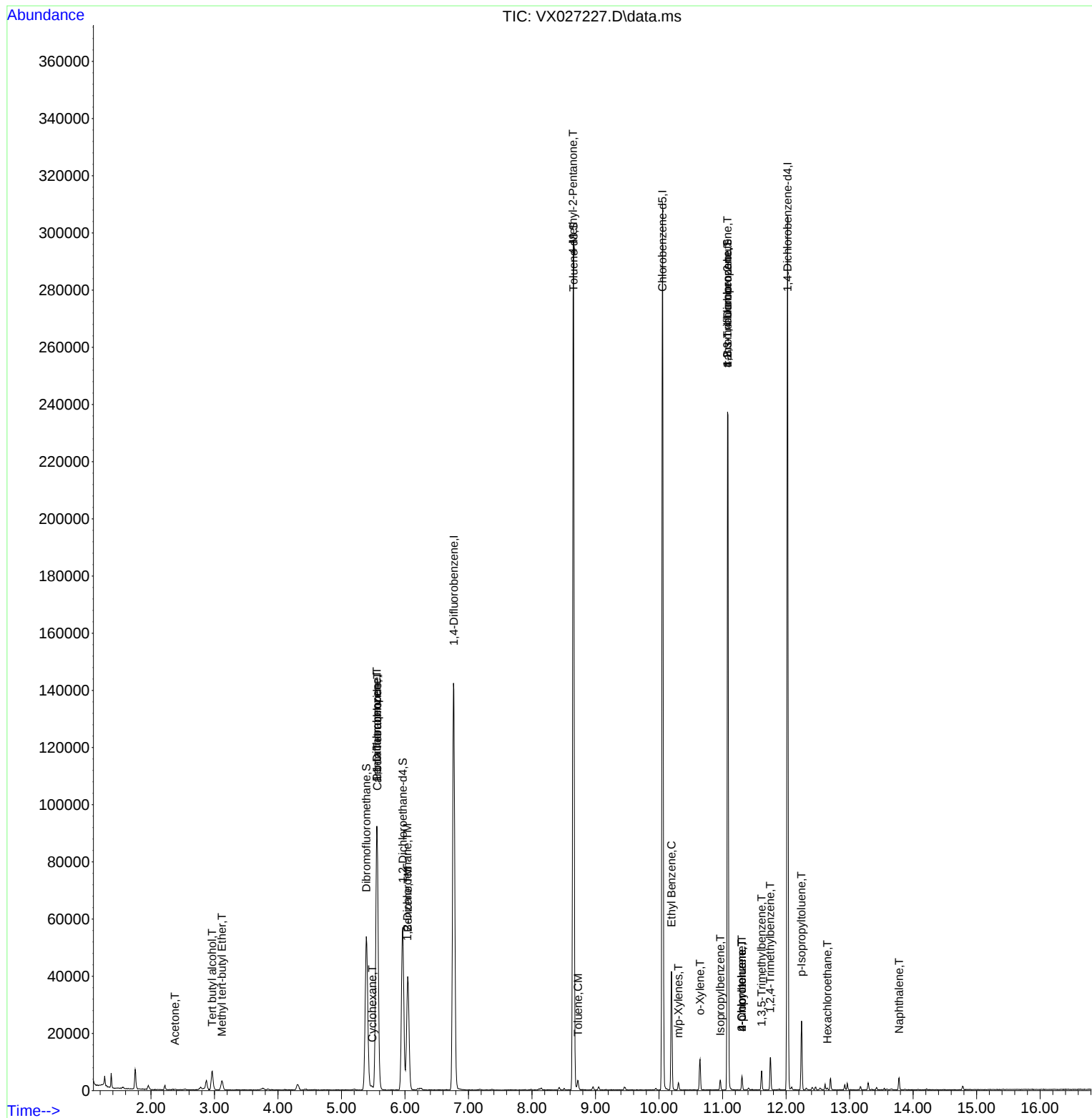
Internal Standards						
1) Pentafluorobenzene	5.556	168	90144	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	151264	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	138766	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	63182	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	55323	51.100	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 102.200%	
35) Dibromofluoromethane	5.391	113	47222	50.294	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.580%	
50) Toluene-d8	8.653	98	176644	50.315	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 100.640%	
62) 4-Bromofluorobenzene	11.079	95	66621	49.437	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 98.880%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.611	94	75	Below Cal		84
11) Tert butyl alcohol	2.965	59	7531	35.752	ug/l	97
16) Acetone	2.380	43	293	0.616	ug/l #	46
19) Methyl tert-butyl Ether	3.117	73	3054	1.014	ug/l #	84
31) Cyclohexane	5.483	56	931	0.574	ug/l	88
36) 1,1-Dichloropropene	5.556	75	6537	4.771	ug/l #	50
38) Carbon Tetrachloride	5.562	117	8787	6.148	ug/l #	17
40) Benzene	6.043	78	48815	12.182	ug/l	97
42) 1,2-Dichloroethane	6.037	62	431	0.303	ug/l #	75
51) 4-Methyl-2-Pentanone	8.647	43	655	0.435	ug/l #	1
52) Toluene	8.726	92	1314	0.512	ug/l	96
67) Ethyl Benzene	10.195	91	24113	4.856	ug/l	97
68) m/p-Xylenes	10.305	106	636	0.333	ug/l	83
69) o-Xylene	10.646	106	2470	1.289	ug/l	98
73) Isopropylbenzene	10.963	105	2070	0.458	ug/l	93
76) 1,2,3-Trichloropropane	11.079	75	32156	25.267	ug/l #	40
78) n-propylbenzene	11.305	91	3395	0.661	ug/l	99
79) 2-Chlorotoluene	11.305	91	3395	1.078	ug/l #	42
80) 1,3,5-Trimethylbenzene	11.616	105	3501	0.921	ug/l	72
81) trans-1,4-Dichloro-2-b...	11.079	75	32156	71.507	ug/l #	4
82) 4-Chlorotoluene	11.305	91	3395	0.944	ug/l #	46
84) 1,2,4-Trimethylbenzene	11.750	105	5506	1.456	ug/l	94
86) p-Isopropyltoluene	12.244	119	961	0.243	ug/l #	1
90) Hexachloroethane	12.652	117	442	0.722	ug/l #	14
95) Naphthalene	13.780	128	3079	0.694	ug/l	95

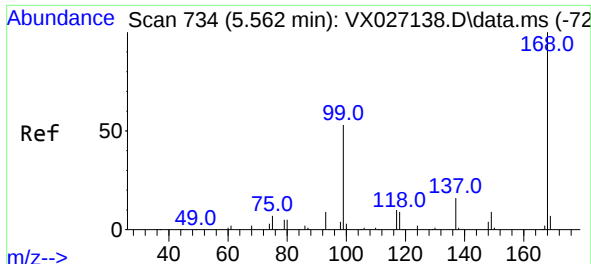
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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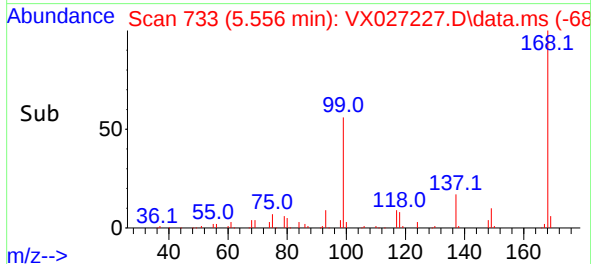
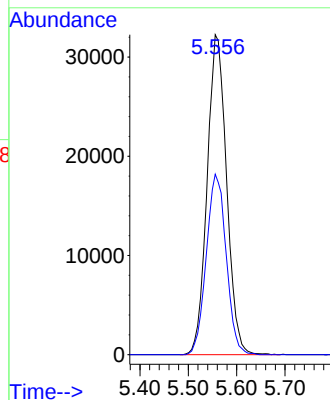
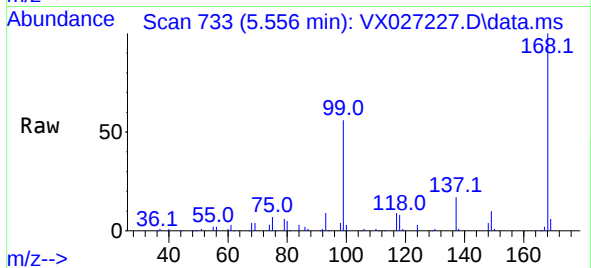




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

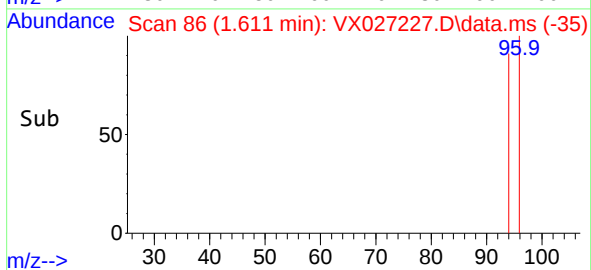
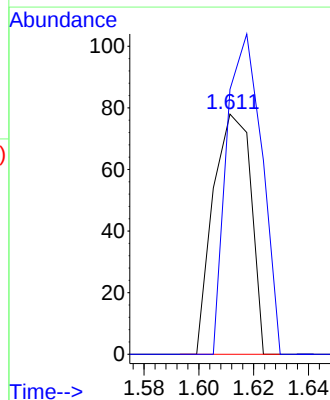
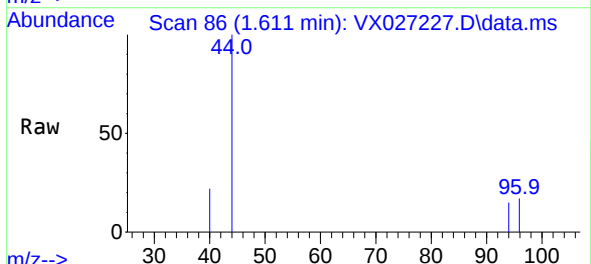
Instrument :
MSVOA_X
ClientSampleId :

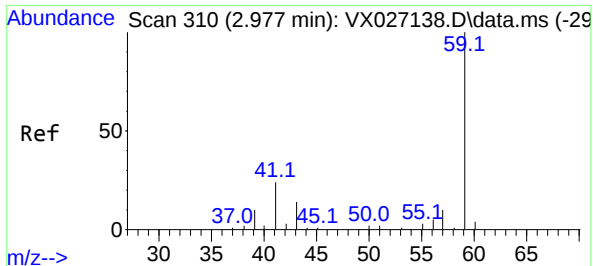
Tgt Ion:168 Resp: 90144
Ion Ratio Lower Upper
168 100
99 56.4 50.3 75.5



#5
Bromomethane
Concen: Below Cal
RT: 1.611 min Scan# 86
Delta R.T. 0.012 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

Tgt Ion: 94 Resp: 75
Ion Ratio Lower Upper
94 100
96 110.3 75.9 113.9





#11

Tert butyl alcohol

Concen: 35.752 ug/l

RT: 2.965 min Scan# 30

Delta R.T. -0.012 min

Lab File: VX027227.D

Acq: 28 Feb 2022 17:59

Instrument :

MSVOA_X

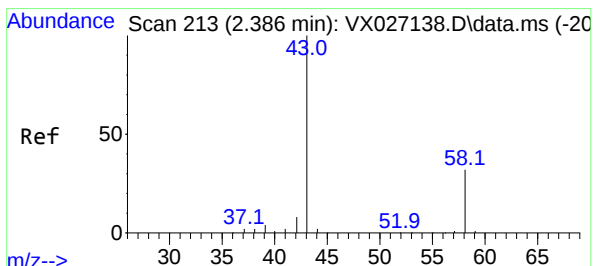
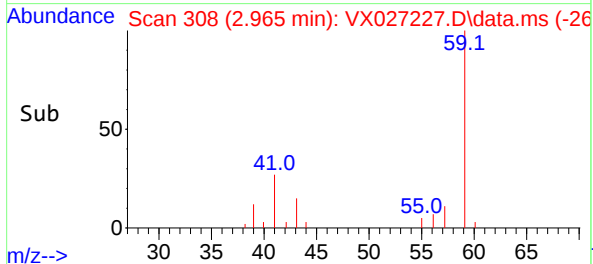
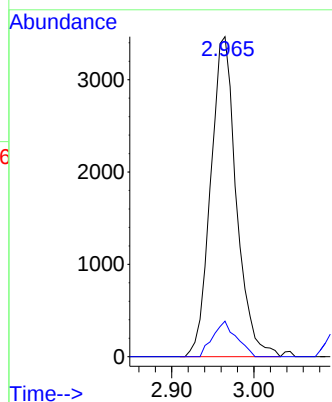
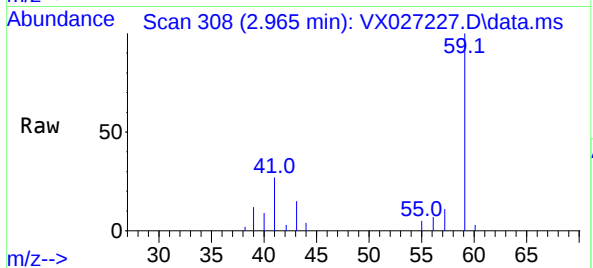
ClientSampleId :

Tgt Ion: 59 Resp: 7531

Ion Ratio Lower Upper

59 100

57 10.2 7.2 10.8



#16

Acetone

Concen: 0.616 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.006 min

Lab File: VX027227.D

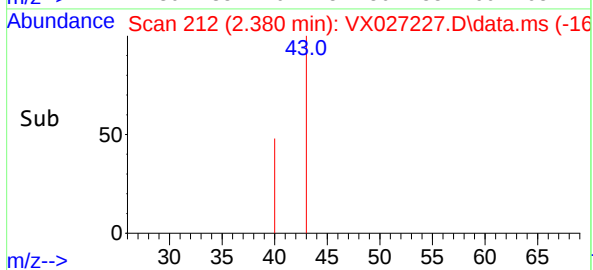
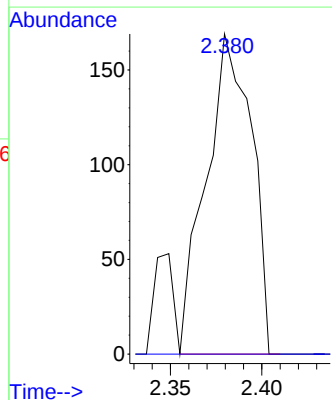
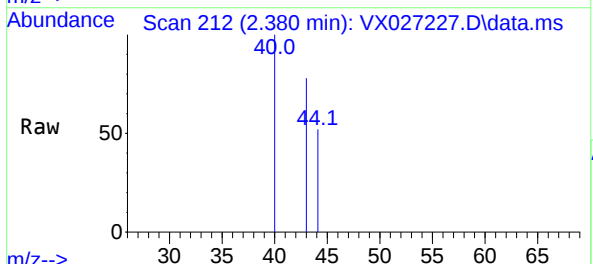
Acq: 28 Feb 2022 17:59

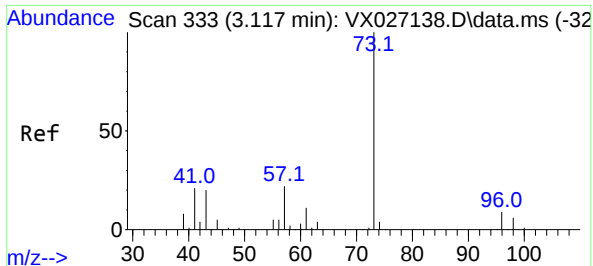
Tgt Ion: 43 Resp: 293

Ion Ratio Lower Upper

43 100

58 0.0 23.0 34.6#





#19

Methyl tert-butyl Ether

Concen: 1.014 ug/l

RT: 3.117 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX027227.D

Acq: 28 Feb 2022 17:59

Instrument :

MSVOA_X

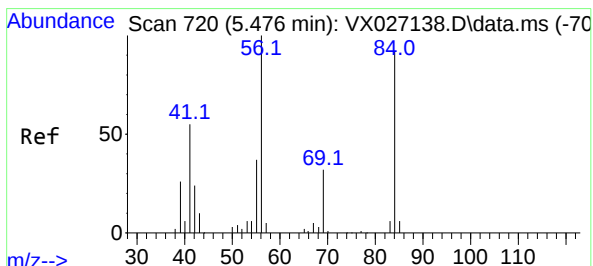
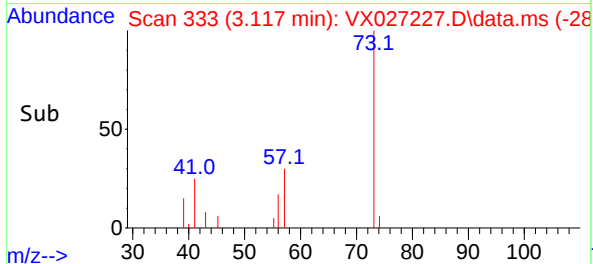
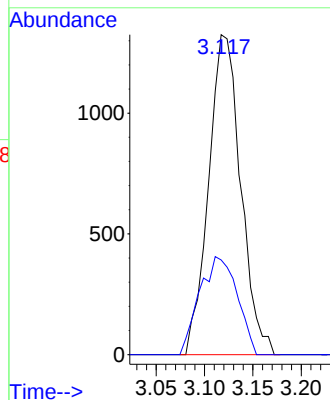
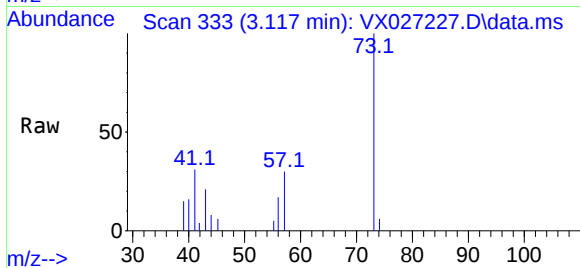
ClientSampleId :

Tgt Ion: 73 Resp: 3054

Ion Ratio Lower Upper

73 100

57 29.6 17.4 26.2#



#31

Cyclohexane

Concen: 0.574 ug/l

RT: 5.483 min Scan# 721

Delta R.T. 0.007 min

Lab File: VX027227.D

Acq: 28 Feb 2022 17:59

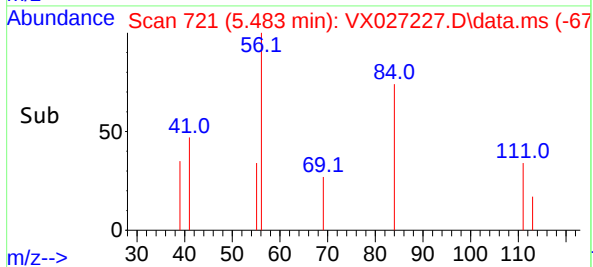
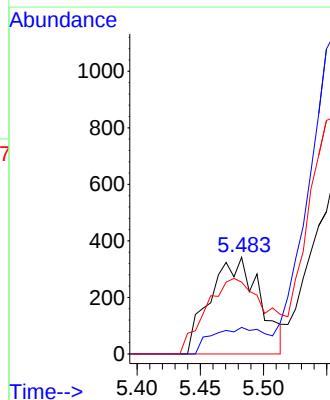
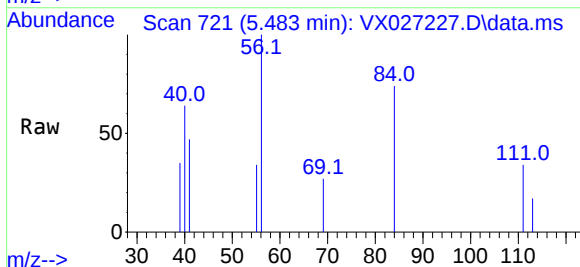
Tgt Ion: 56 Resp: 931

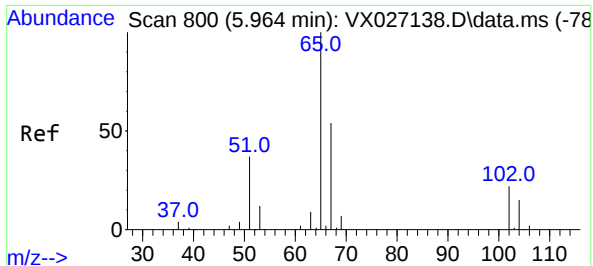
Ion Ratio Lower Upper

56 100

69 27.5 25.8 38.6

84 74.3 68.9 103.3





#33

1,2-Dichloroethane-d4

Concen: 51.100 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX027227.D

Acq: 28 Feb 2022 17:59

Instrument :

MSVOA_X

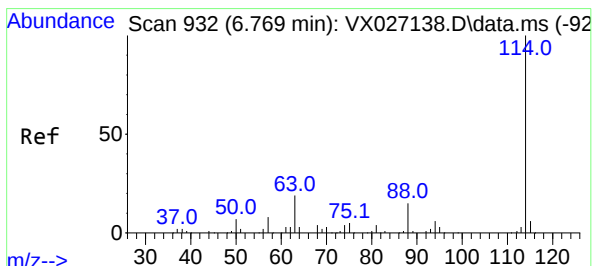
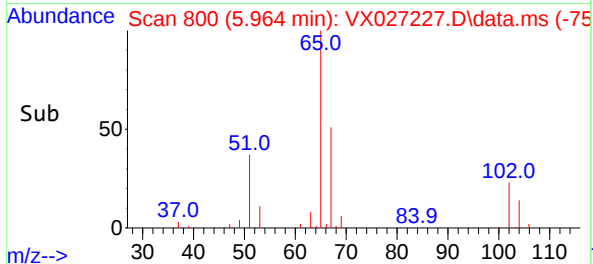
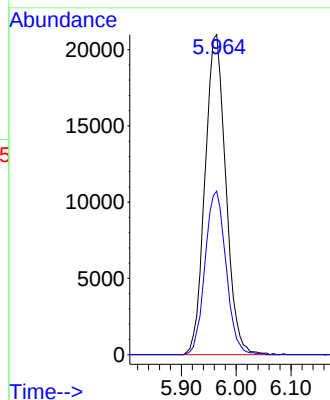
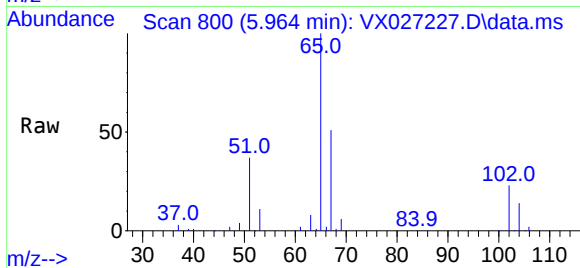
ClientSampleId :

Tgt Ion: 65 Resp: 55323

Ion Ratio Lower Upper

65 100

67 51.5 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.000 min

Lab File: VX027227.D

Acq: 28 Feb 2022 17:59

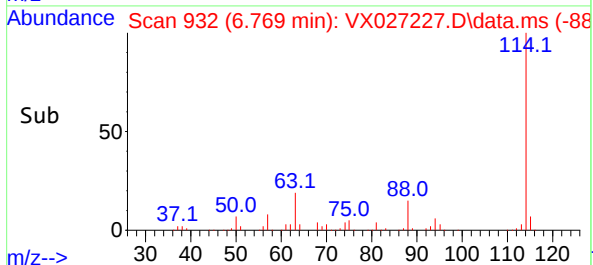
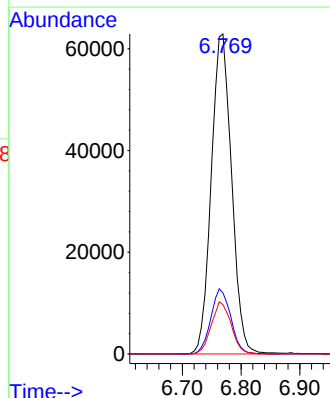
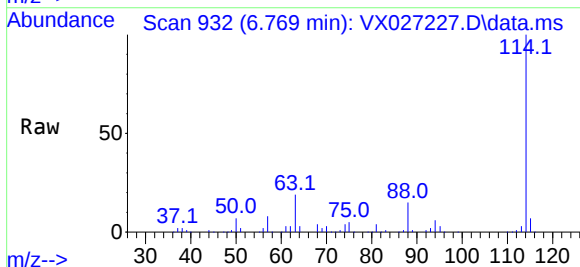
Tgt Ion: 114 Resp: 151264

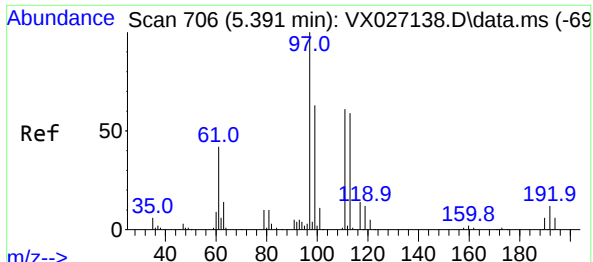
Ion Ratio Lower Upper

114 100

63 19.1 0.0 42.8

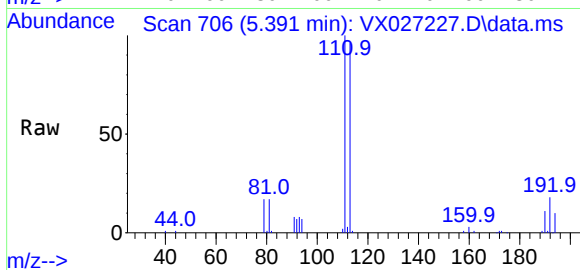
88 15.4 0.0 33.0



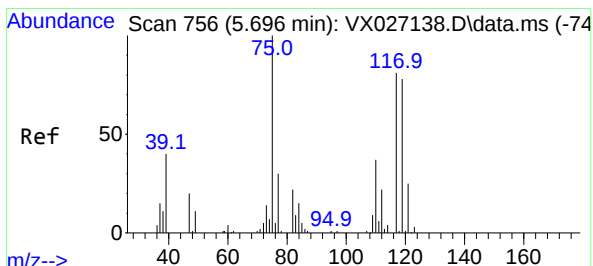
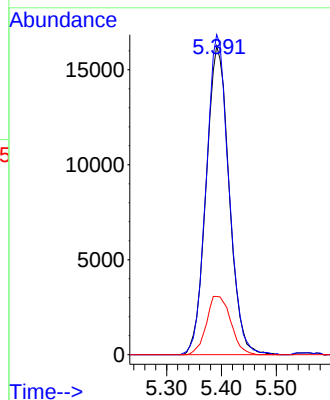
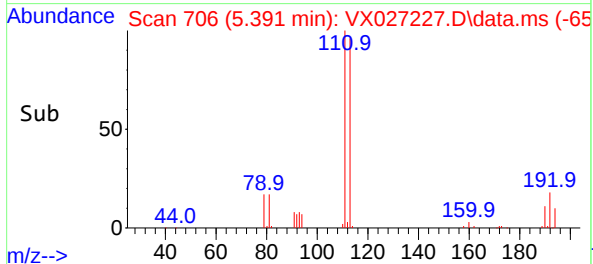


#35
Dibromofluoromethane
Concen: 50.294 ug/l
RT: 5.391 min Scan# 706
Delta R.T. 0.000 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

Instrument :
MSVOA_X
ClientSampleId :

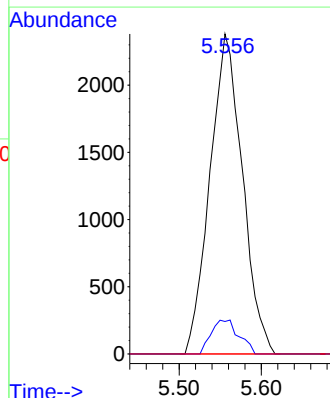
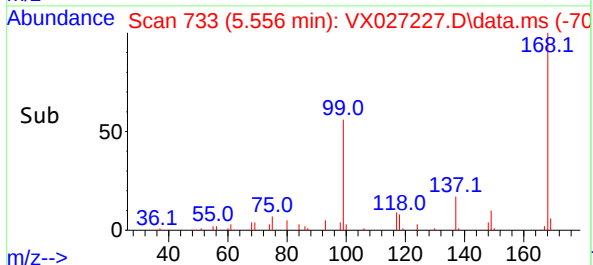
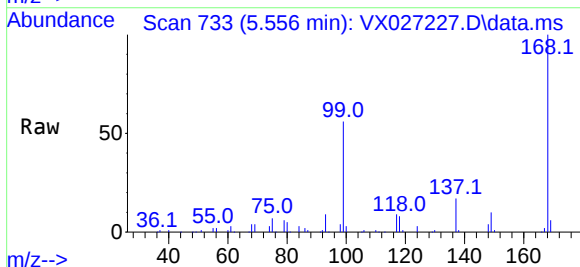


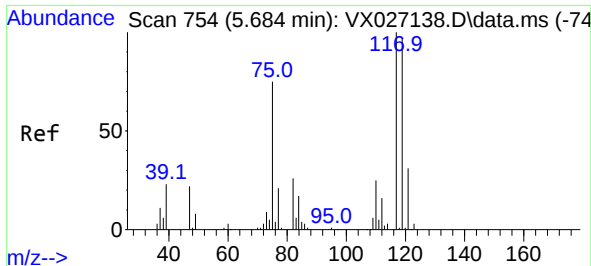
Tgt Ion:113 Resp: 47222
Ion Ratio Lower Upper
113 100
111 102.1 81.2 121.8
192 20.0 15.0 22.4



#36
1,1-Dichloropropene
Concen: 4.771 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.140 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

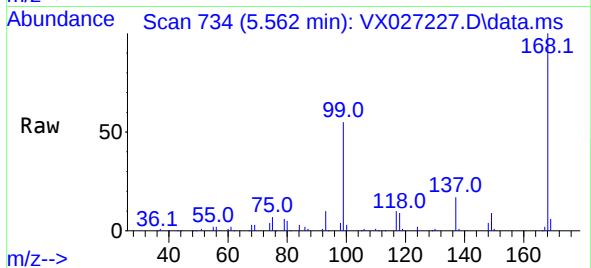
Tgt Ion: 75 Resp: 6537
Ion Ratio Lower Upper
75 100
110 9.1 17.2 51.6#
77 0.0 24.6 36.8#



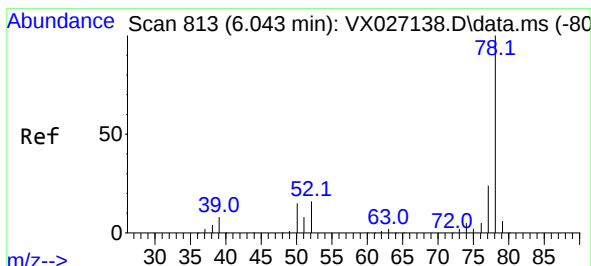
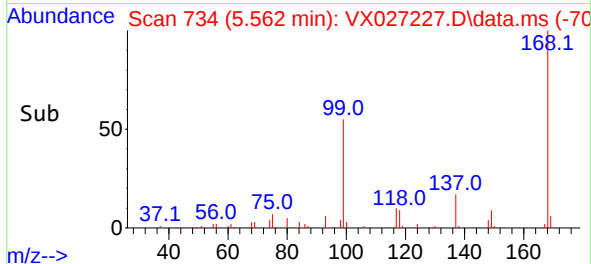
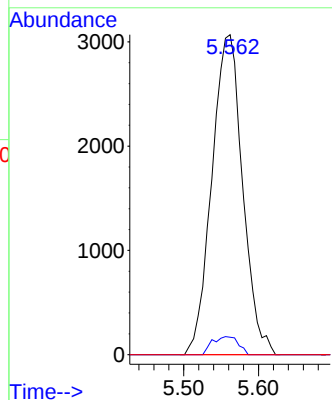


#38
Carbon Tetrachloride
Concen: 6.148 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.122 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

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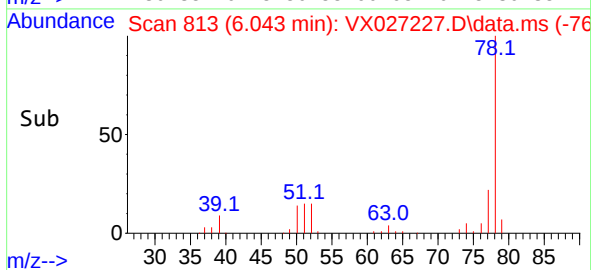
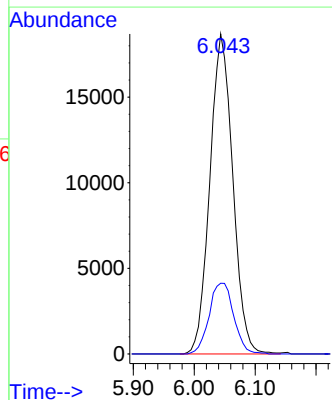
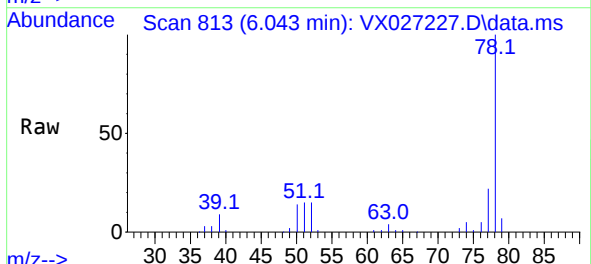


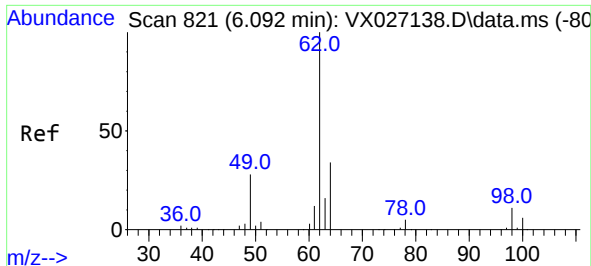
Tgt Ion:117 Resp: 8787
Ion Ratio Lower Upper
117 100
119 5.5 74.7 112.1#
121 0.0 25.4 38.0#



#40
Benzene
Concen: 12.182 ug/l
RT: 6.043 min Scan# 813
Delta R.T. 0.000 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

Tgt Ion: 78 Resp: 48815
Ion Ratio Lower Upper
78 100
77 22.1 18.9 28.3





#42

1,2-Dichloroethane

Concen: 0.303 ug/l

RT: 6.037 min Scan# 81

Delta R.T. -0.055 min

Lab File: VX027227.D

Acq: 28 Feb 2022 17:59

Instrument :

MSVOA_X

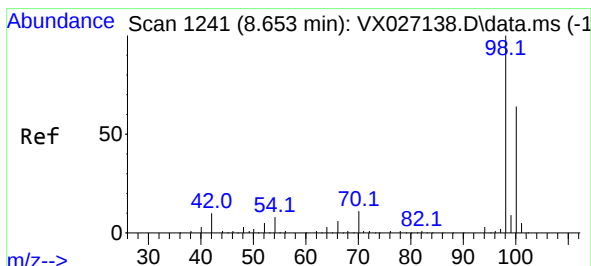
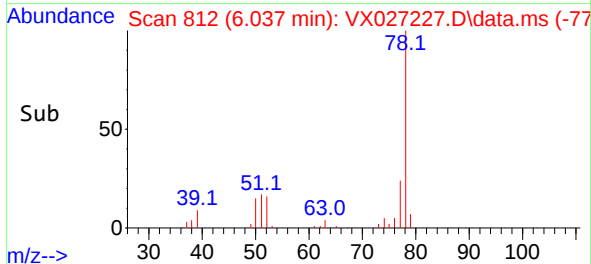
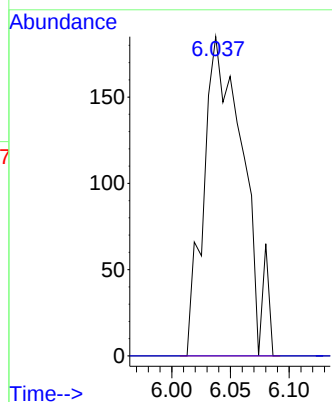
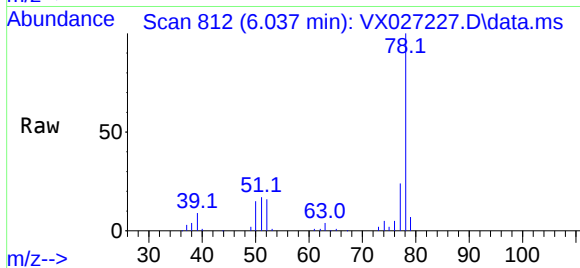
ClientSampleId :

Tgt Ion: 62 Resp: 431

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.8



#50

Toluene-d8

Concen: 50.315 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX027227.D

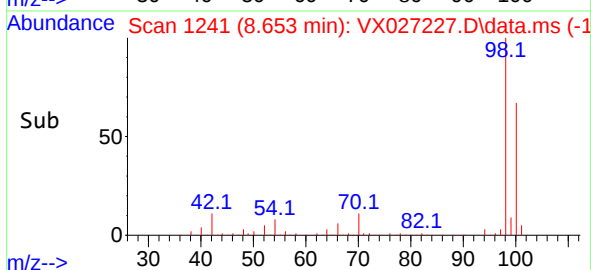
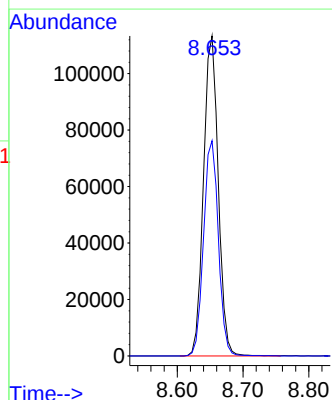
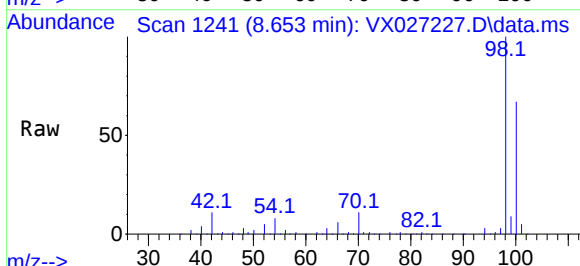
Acq: 28 Feb 2022 17:59

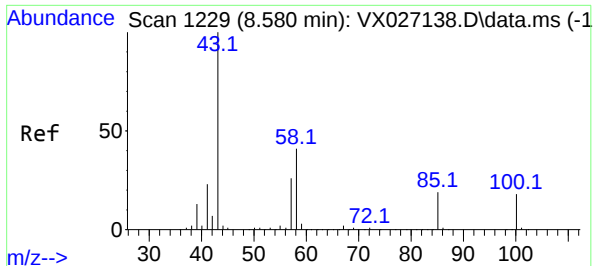
Tgt Ion: 98 Resp: 176644

Ion Ratio Lower Upper

98 100

100 67.5 53.2 79.8

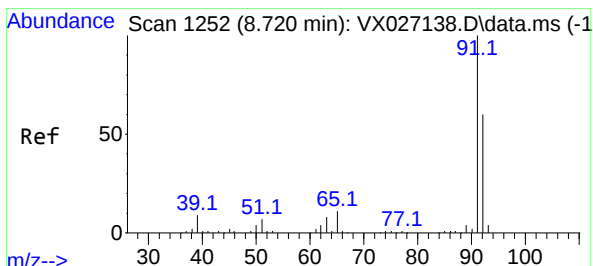
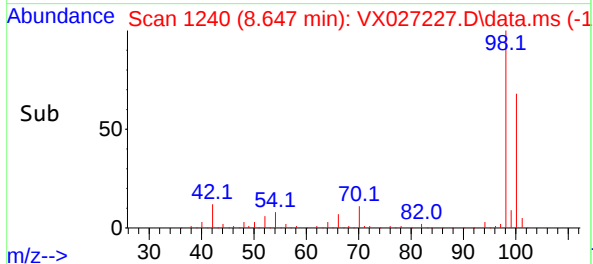
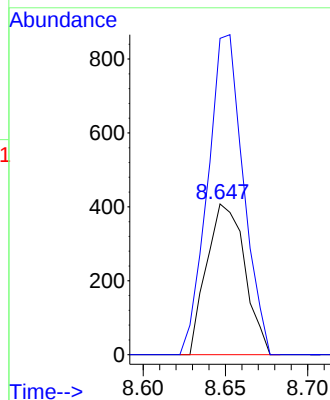
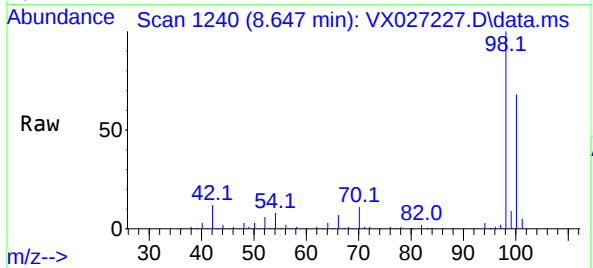




#51
4-Methyl-2-Pentanone
Concen: 0.435 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.067 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

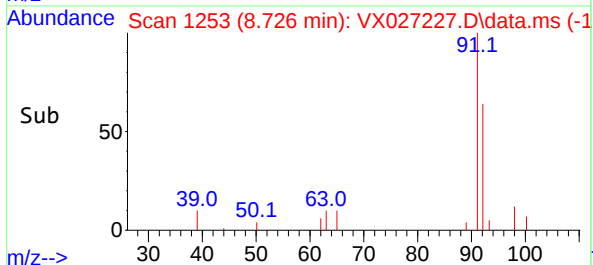
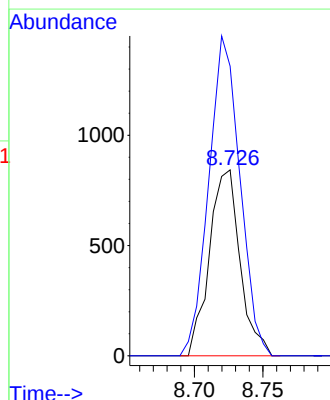
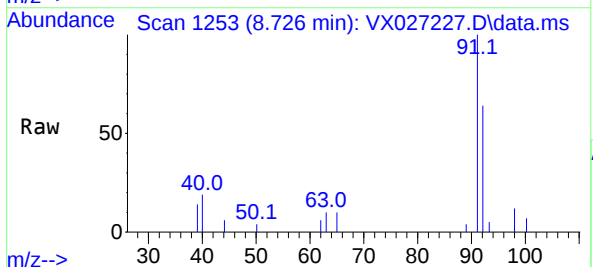
Instrument :
MSVOA_X
ClientSampleId :

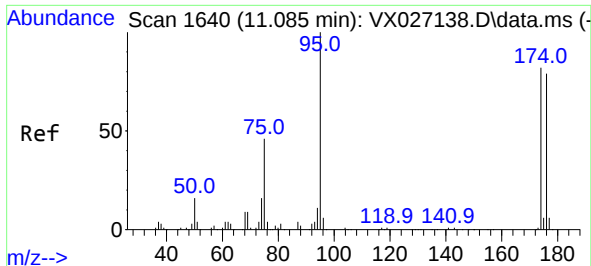
Tgt Ion: 43 Resp: 655
Ion Ratio Lower Upper
43 100
58 199.4 30.5 45.7#



#52
Toluene
Concen: 0.512 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.006 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

Tgt Ion: 92 Resp: 1314
Ion Ratio Lower Upper
92 100
91 174.5 135.7 203.5

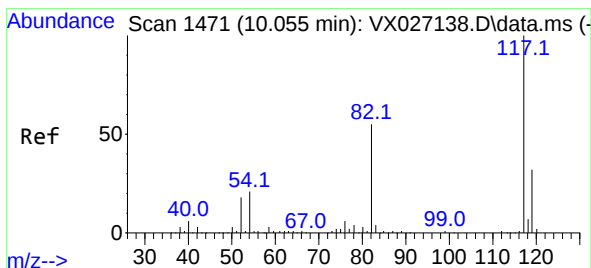
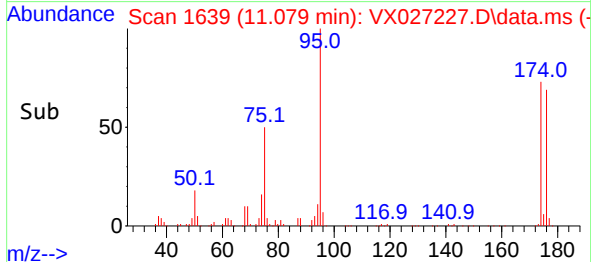
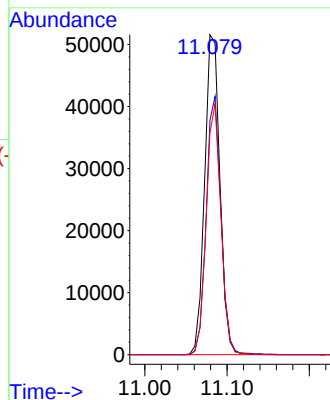
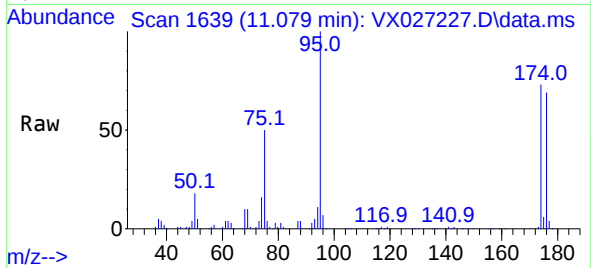




#62
4-Bromofluorobenzene
Concen: 49.437 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.006 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

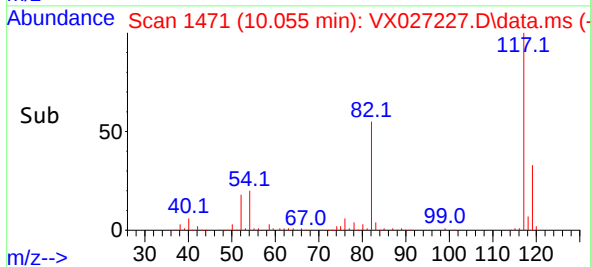
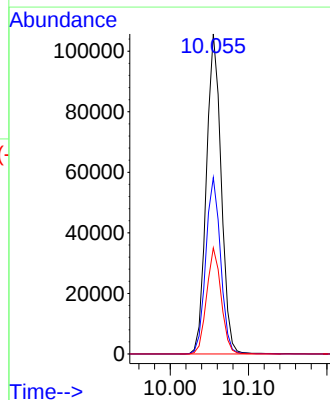
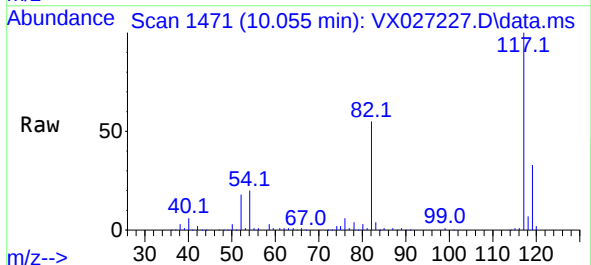
Instrument :
MSVOA_X
ClientSampleId :

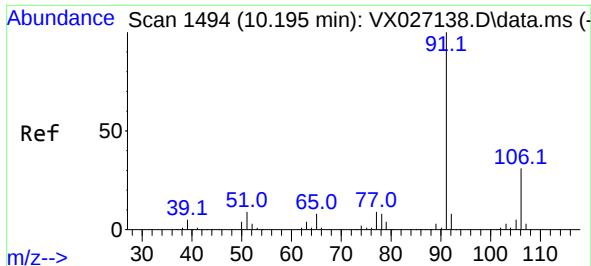
Tgt Ion: 95 Resp: 66621
Ion Ratio Lower Upper
95 100
174 77.8 0.0 148.6
176 75.3 0.0 141.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

Tgt Ion: 117 Resp: 138766
Ion Ratio Lower Upper
117 100
82 55.1 45.2 67.8
119 33.2 26.2 39.2

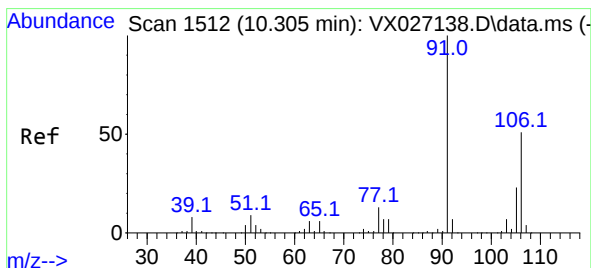
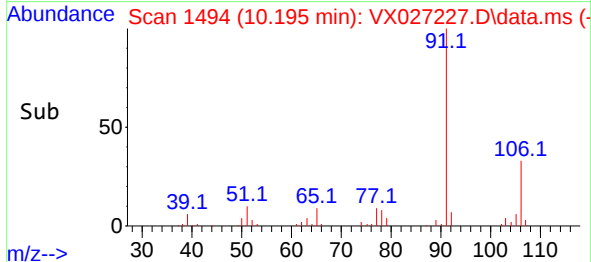
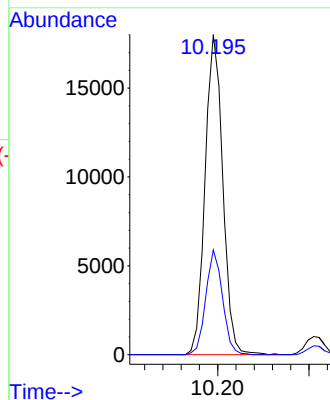
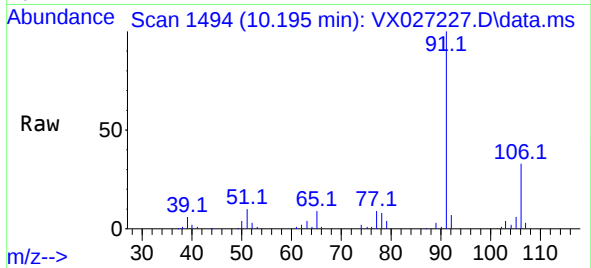




#67
Ethyl Benzene
Concen: 4.856 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

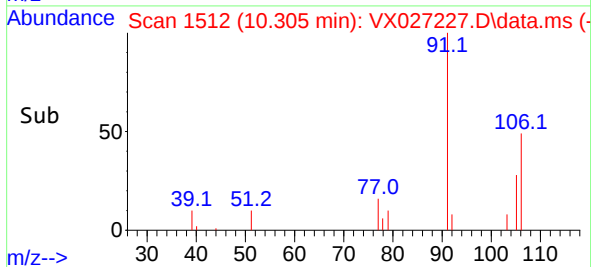
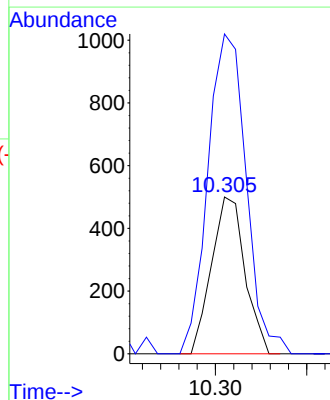
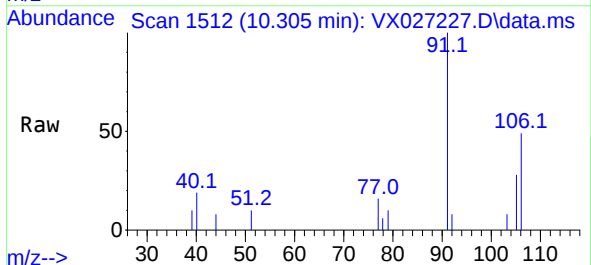
Instrument :
MSVOA_X
ClientSampleId :

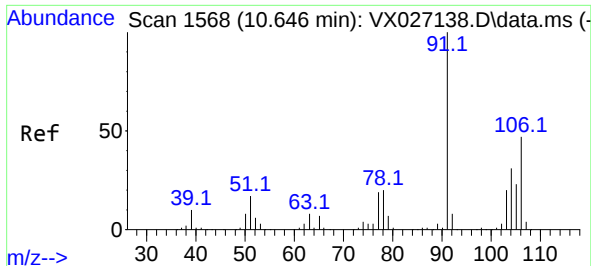
Tgt Ion: 91 Resp: 24113
Ion Ratio Lower Upper
91 100
106 32.7 24.7 37.1



#68
m/p-Xylenes
Concen: 0.333 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. -0.000 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

Tgt Ion: 106 Resp: 636
Ion Ratio Lower Upper
106 100
91 233.3 165.3 247.9

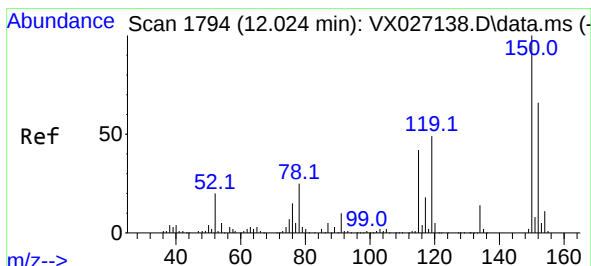
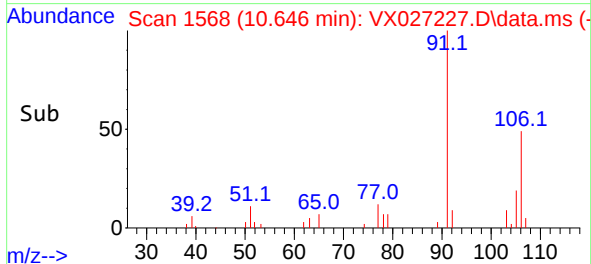
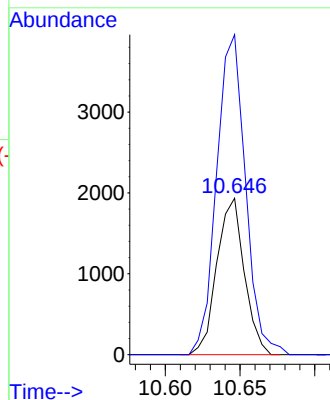
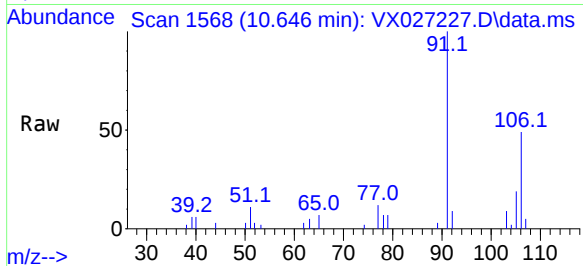




#69
o-Xylene
Concen: 1.289 ug/l
RT: 10.646 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

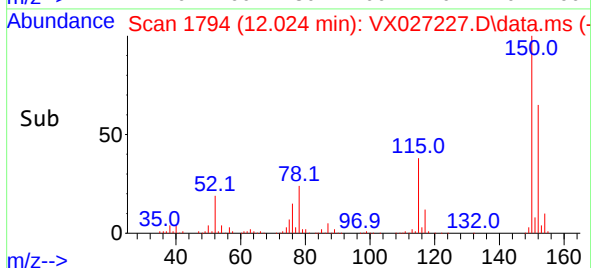
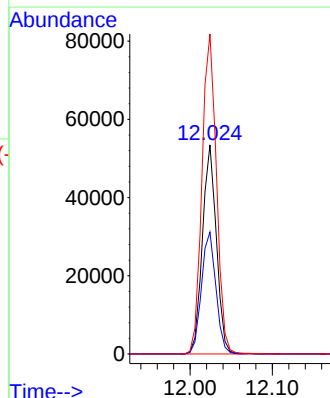
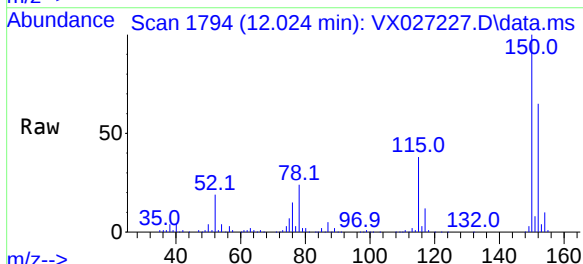
Instrument :
MSVOA_X
ClientSampleId :

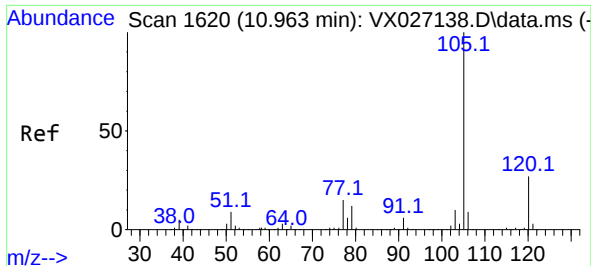
Tgt Ion:106 Resp: 2470
Ion Ratio Lower Upper
106 100
91 215.3 109.7 329.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

Tgt Ion:152 Resp: 63182
Ion Ratio Lower Upper
152 100
115 60.1 44.2 132.6
150 158.4 0.0 348.2

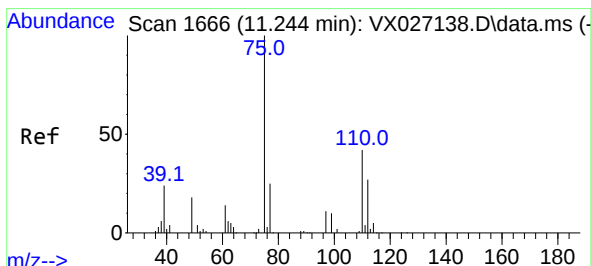
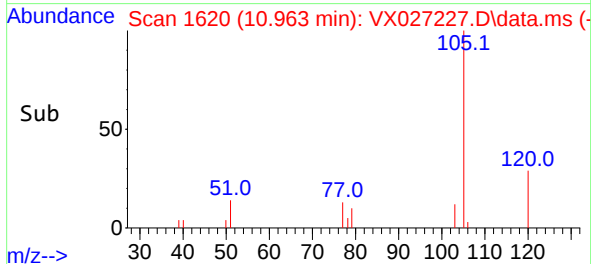
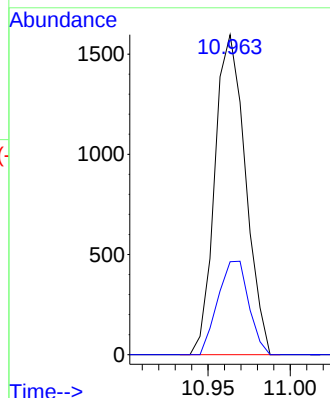
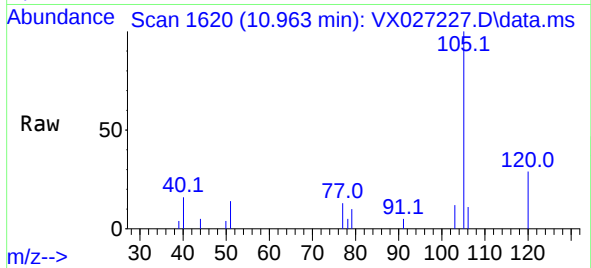




#73
Isopropylbenzene
Concen: 0.458 ug/l
RT: 10.963 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

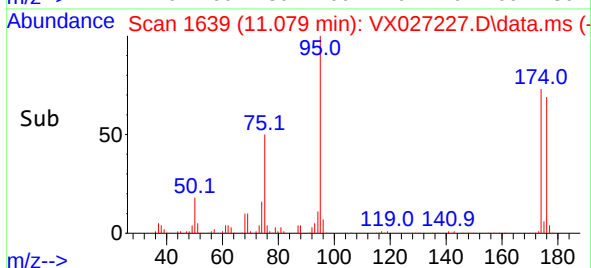
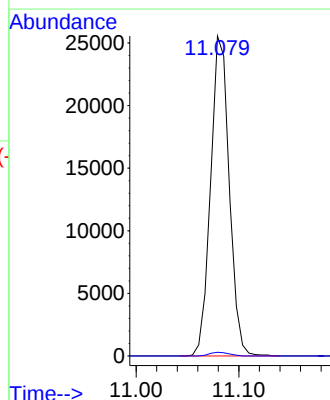
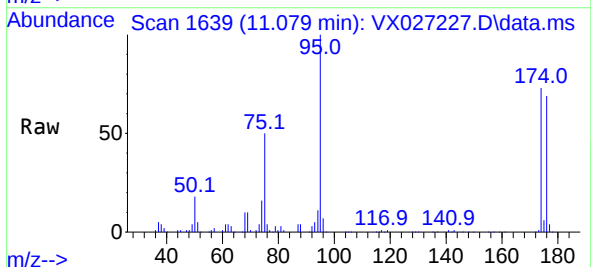
Instrument :
MSVOA_X
ClientSampleId :

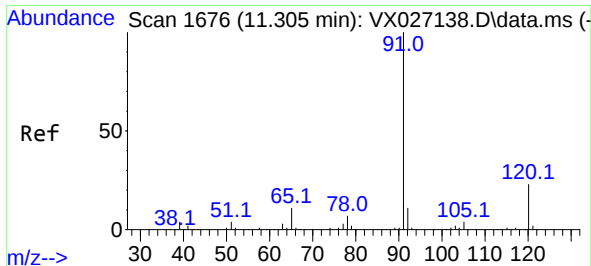
Tgt Ion:105 Resp: 2070
Ion Ratio Lower Upper
105 100
120 29.5 13.1 39.1



#76
1,2,3-Trichloropropane
Concen: 25.267 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.165 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

Tgt Ion: 75 Resp: 32156
Ion Ratio Lower Upper
75 100
77 1.2 18.3 54.8#

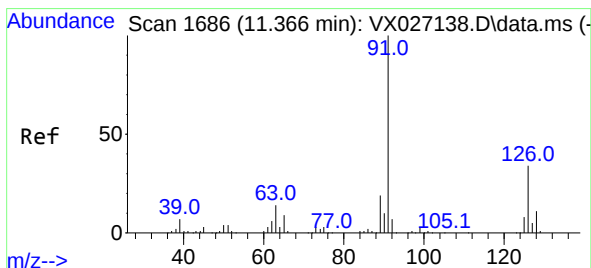
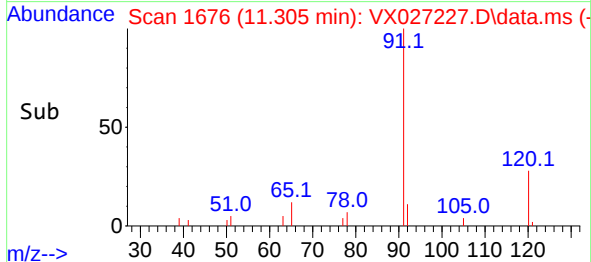
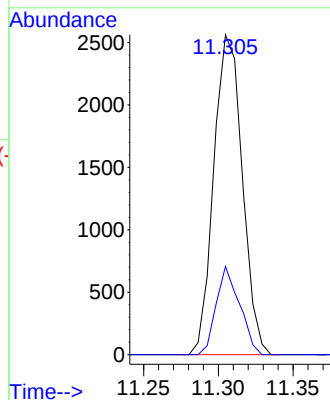
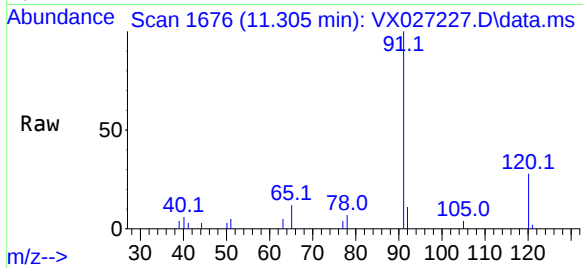




#78
n-propylbenzene
Concen: 0.661 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

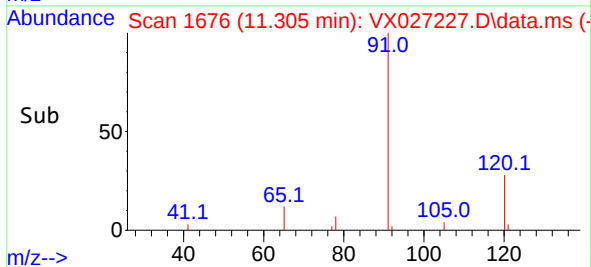
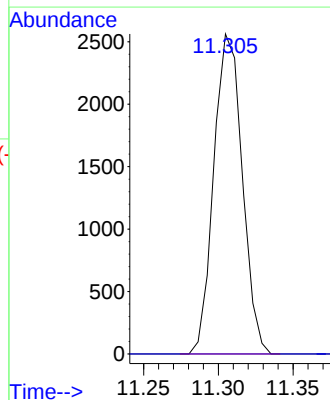
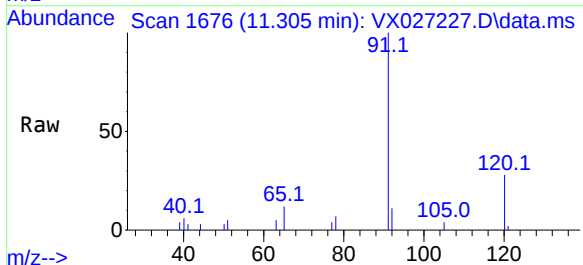
Instrument :
MSVOA_X
ClientSampleId :

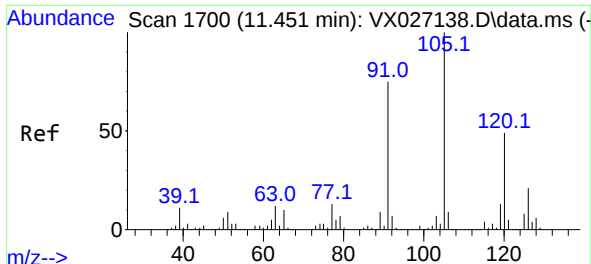
Tgt Ion: 91 Resp: 3395
Ion Ratio Lower Upper
91 100
120 22.6 11.6 34.7



#79
2-Chlorotoluene
Concen: 1.078 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.061 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

Tgt Ion: 91 Resp: 3395
Ion Ratio Lower Upper
91 100
126 0.0 16.4 49.2#

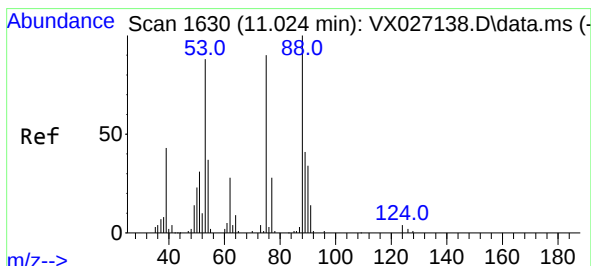
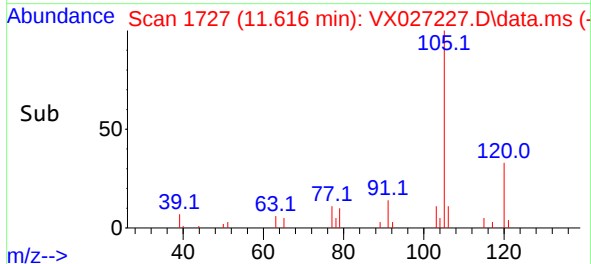
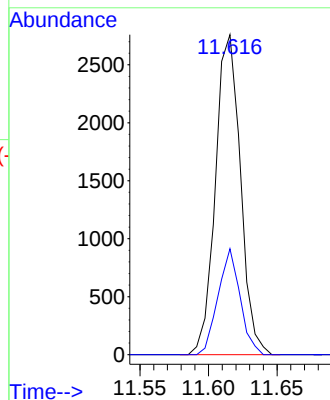
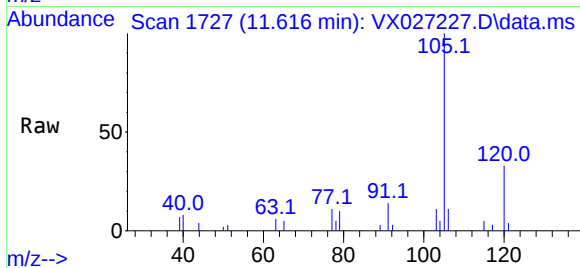




#80
1,3,5-Trimethylbenzene
Concen: 0.921 ug/l
RT: 11.616 min Scan# 11
Delta R.T. 0.165 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

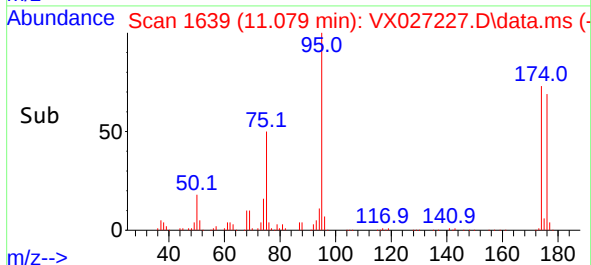
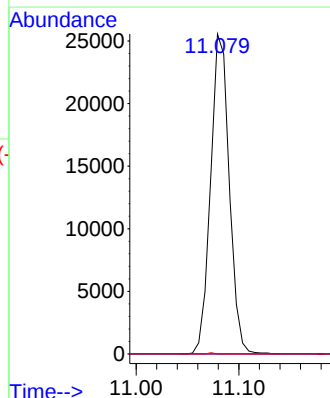
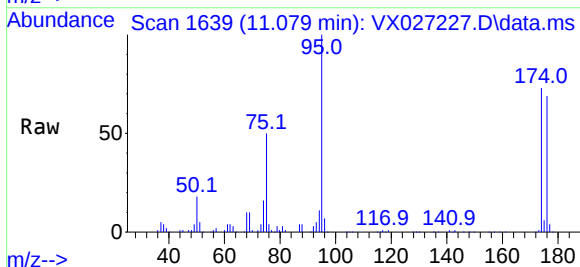
Instrument :
MSVOA_X
ClientSampleId :

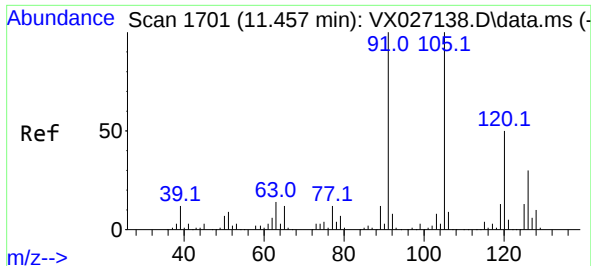
Tgt Ion:105 Resp: 3501
Ion Ratio Lower Upper
105 100
120 29.1 24.0 72.0



#81
trans-1,4-Dichloro-2-butene
Concen: 71.507 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.055 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

Tgt Ion: 75 Resp: 32156
Ion Ratio Lower Upper
75 100
53 0.0 94.0 141.0#
89 0.1 37.0 55.4#

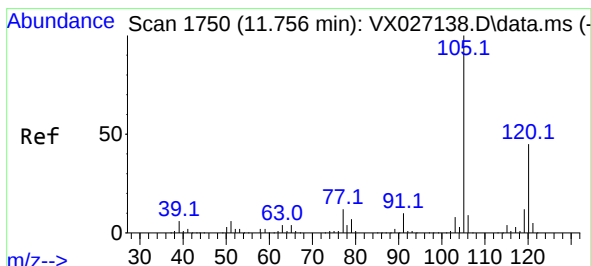
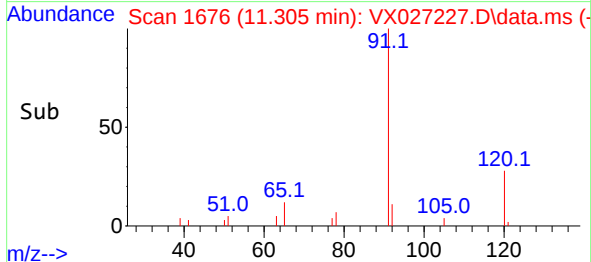
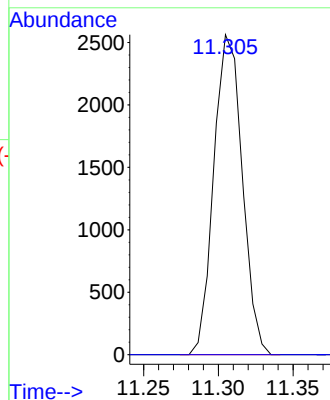
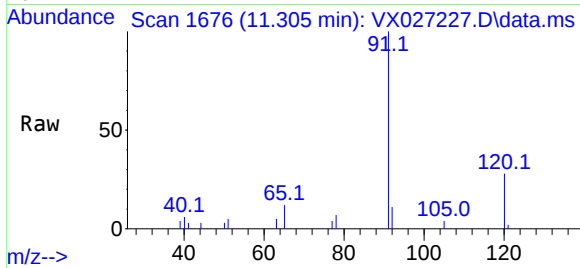




#82
4-Chlorotoluene
Concen: 0.944 ug/l
RT: 11.305 min Scan# 1701
Delta R.T. -0.152 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

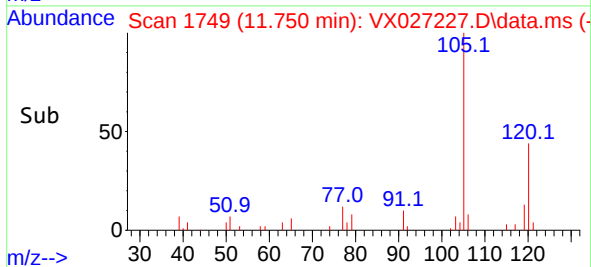
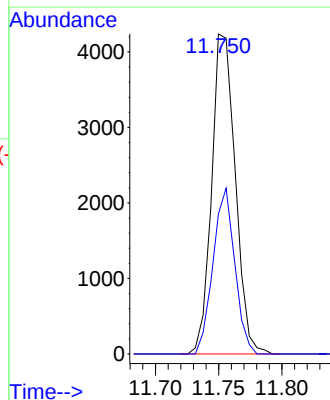
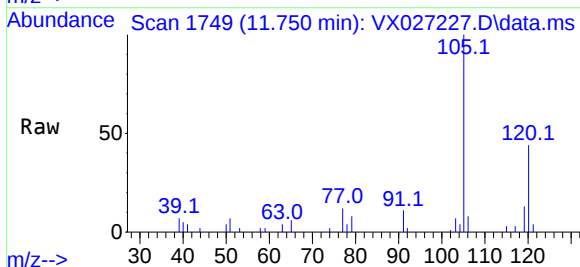
Instrument :
MSVOA_X
ClientSampleId :

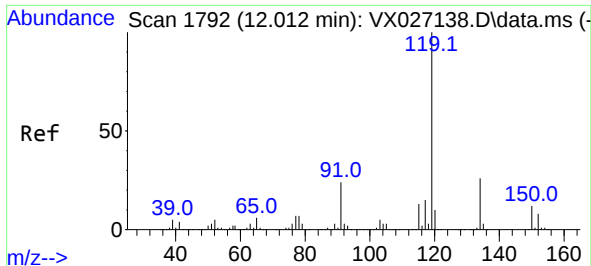
Tgt Ion: 91 Resp: 3395
Ion Ratio Lower Upper
91 100
126 0.0 14.1 42.4#



#84
1,2,4-Trimethylbenzene
Concen: 1.456 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.006 min
Lab File: VX027227.D
Acq: 28 Feb 2022 17:59

Tgt Ion: 105 Resp: 5506
Ion Ratio Lower Upper
105 100
120 47.5 21.9 65.5





#86

p-Isopropyltoluene

Concen: 0.243 ug/l

RT: 12.244 min Scan# 11

Delta R.T. 0.232 min

Lab File: VX027227.D

Acq: 28 Feb 2022 17:59

Instrument :

MSVOA_X

ClientSampleId :

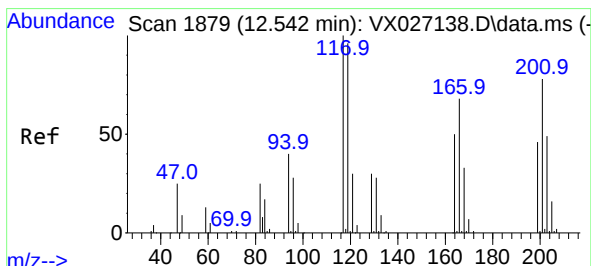
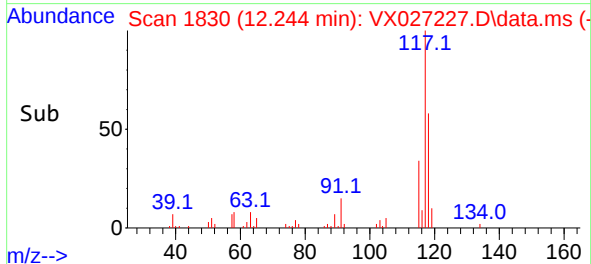
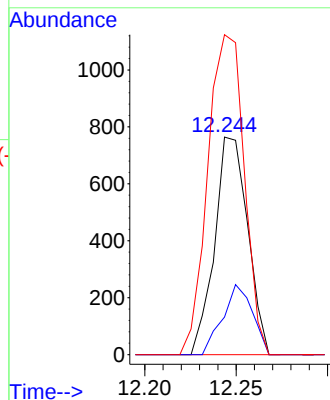
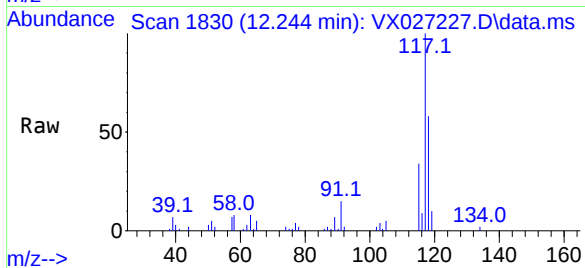
Tgt Ion:119 Resp: 961

Ion Ratio Lower Upper

119 100

134 29.0 13.0 39.0

91 162.4 12.6 37.6#



#90

Hexachloroethane

Concen: 0.722 ug/l

RT: 12.652 min Scan# 1897

Delta R.T. 0.110 min

Lab File: VX027227.D

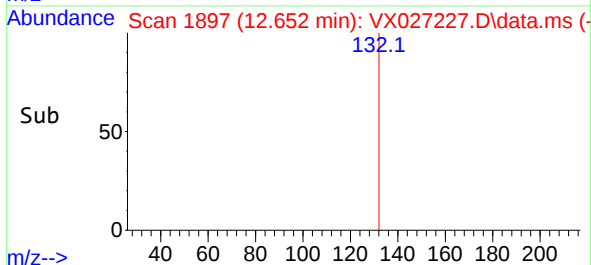
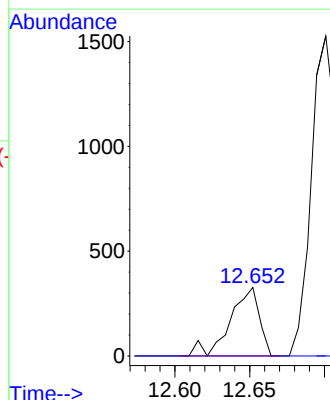
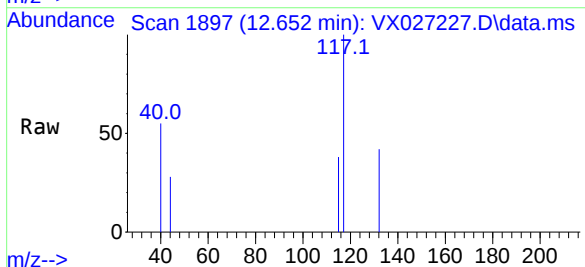
Acq: 28 Feb 2022 17:59

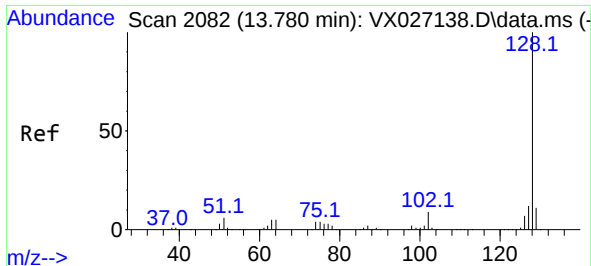
Tgt Ion:117 Resp: 442

Ion Ratio Lower Upper

117 100

201 0.0 35.6 106.8#





#95

Naphthalene

Concen: 0.694 ug/l

RT: 13.780 min Scan# 20

Delta R.T. -0.000 min

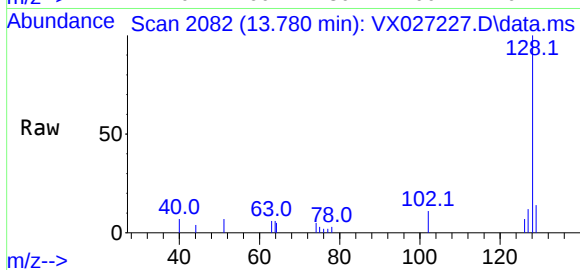
Lab File: VX027227.D

Acq: 28 Feb 2022 17:59

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:128 Resp: 3079

Ion Ratio Lower Upper

128 100

127 10.7 10.3 15.5

129 12.9 8.7 13.1

