

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020222\
 Data File : VX026748.D
 Acq On : 02 Feb 2022 19:39
 Operator : JC/MD
 Sample : N1357-01DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

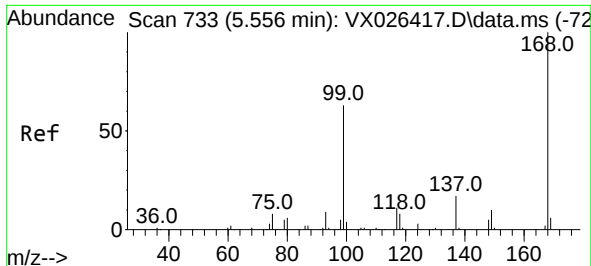
Instrument :
 MSVOA_X
 ClientSampleId :
 GROUNDWATERDL

Quant Time: Feb 03 03:09:22 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011122W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 11 14:45:13 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	122763	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	208032	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	179549	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	78205	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	78431	45.735	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	91.460%		
35) Dibromofluoromethane	5.391	113	64596	48.084	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.160%		
50) Toluene-d8	8.653	98	237871	49.136	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	98.280%		
62) 4-Bromofluorobenzene	11.079	95	84385	49.069	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	98.140%		
Target Compounds					Qvalue	
4) Vinyl Chloride	1.374	62	2288	1.640	ug/l	91
8) Diethyl Ether	2.136	74	17624	22.610	ug/l	99
16) Acetone	2.386	43	20601	23.556	ug/l	95
24) 1,1-Dichloroethane	3.617	63	3058	1.182	ug/l	98
25) 2-Butanone	4.568	43	8475	7.452	ug/l	99
27) cis-1,2-Dichloroethene	4.495	96	24191	15.271	ug/l	87
36) 1,1-Dichloropropene	5.562	75	9128	4.304	ug/l #	51
37) Ethyl Acetate	4.733	43	1102	0.514	ug/l #	69
40) Benzene	6.044	78	59874	10.214	ug/l	98
44) Trichloroethene	7.129	130	2217	1.333	ug/l	99
51) 4-Methyl-2-Pentanone	8.580	43	1573	0.765	ug/l	94
52) Toluene	8.720	92	149417	41.567	ug/l	99
59) 2-Hexanone	9.439	43	396	0.252	ug/l	93
64) Tetrachloroethene	9.281	164	577	0.340	ug/l #	84
65) Chlorobenzene	10.080	112	7301	1.931	ug/l	98
67) Ethyl Benzene	10.195	91	64426	9.376	ug/l	100
68) m/p-Xylenes	10.305	106	33264	12.936	ug/l	96
69) o-Xylene	10.647	106	20188	8.137	ug/l	99
70) Styrene	10.647	104	1301	0.321	ug/l #	1
73) Isopropylbenzene	10.964	105	9962	1.554	ug/l	99
78) n-propylbenzene	11.305	91	8207	1.123	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	4275	0.809	ug/l	97
84) 1,2,4-Trimethylbenzene	11.756	105	38942	7.367	ug/l	97
85) sec-Butylbenzene	11.890	105	1491	0.234	ug/l	98
86) p-Isopropyltoluene	11.969	119	1585	0.296	ug/l	95
89) n-Butylbenzene	12.335	91	1704	0.371	ug/l #	63
91) 1,2-Dichlorobenzene	12.335	146	3465	1.332	ug/l	96
93) 1,2,4-Trichlorobenzene	13.591	180	755	0.453	ug/l	89

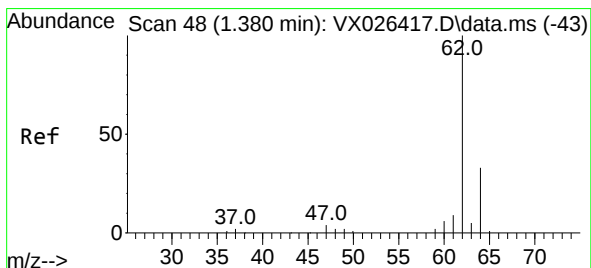
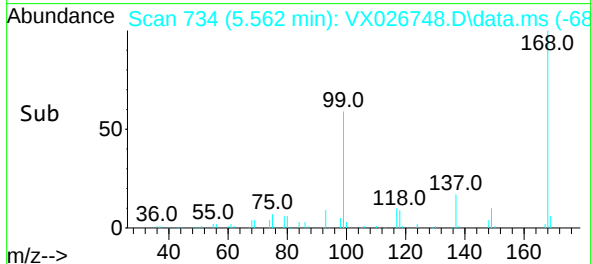
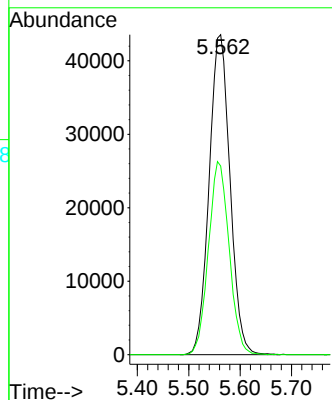
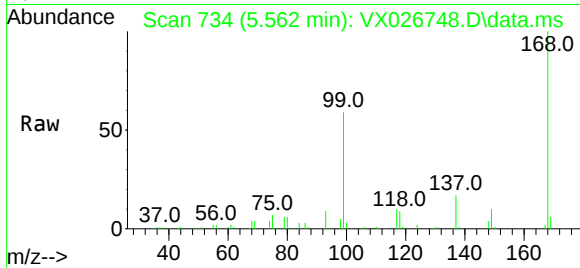
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

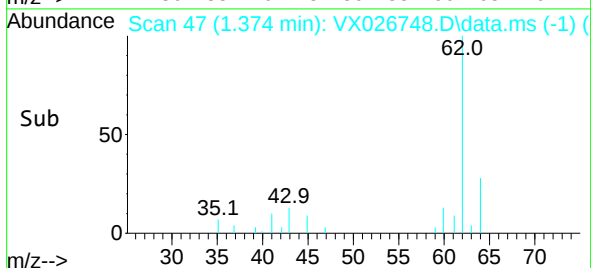
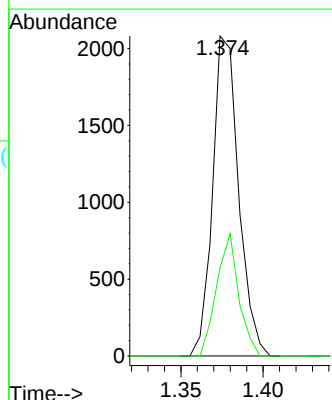
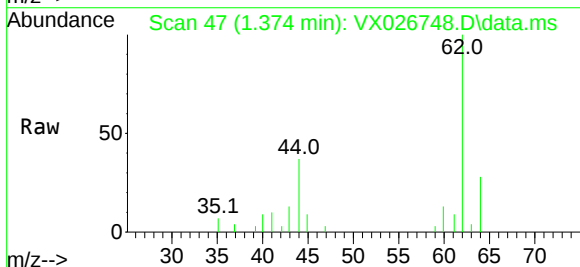
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATERDL

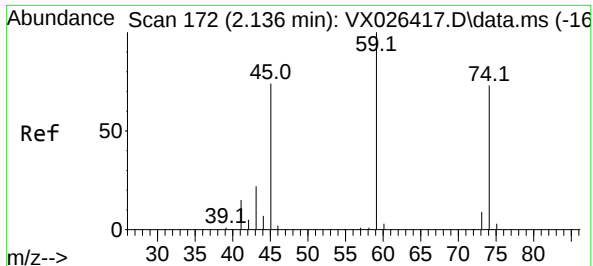
Tgt Ion:168 Resp: 122763
Ion Ratio Lower Upper
168 100
99 59.0 50.3 75.5



#4
Vinyl Chloride
Concen: 1.640 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.006 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

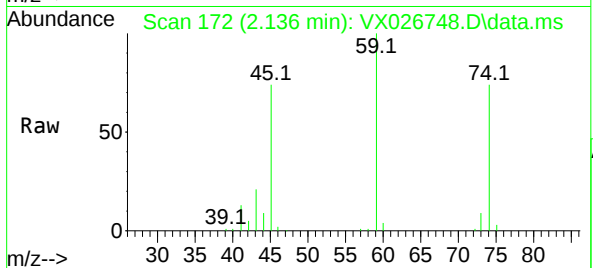
Tgt Ion: 62 Resp: 2288
Ion Ratio Lower Upper
62 100
64 27.6 26.2 39.2



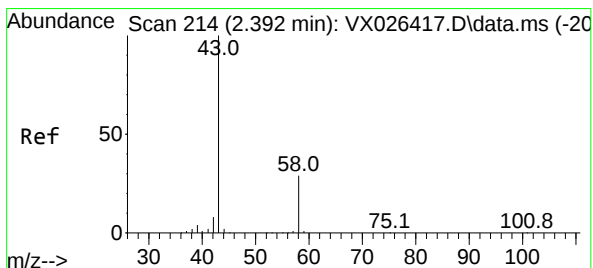
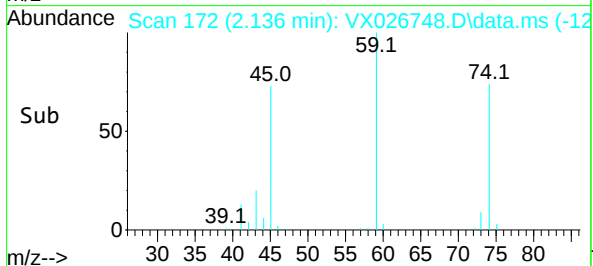
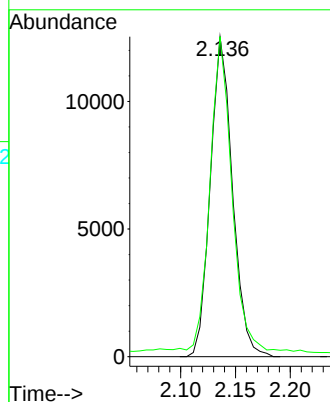


#8
Diethyl Ether
Concen: 22.610 ug/l
RT: 2.136 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATERDL

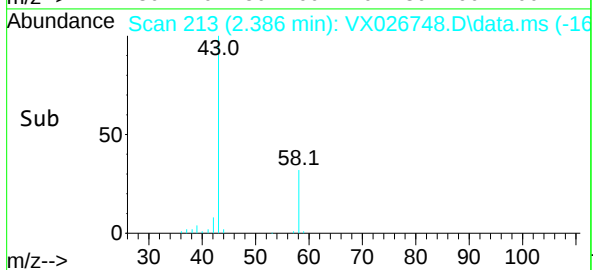
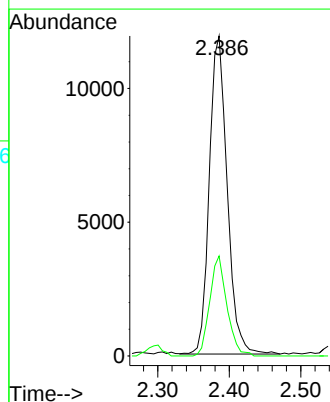
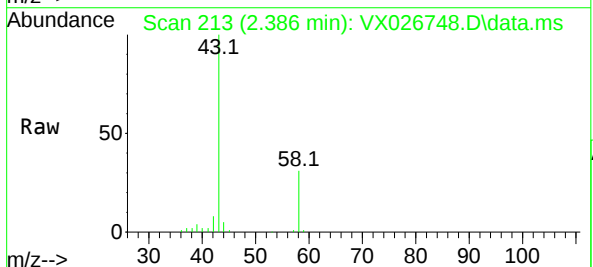


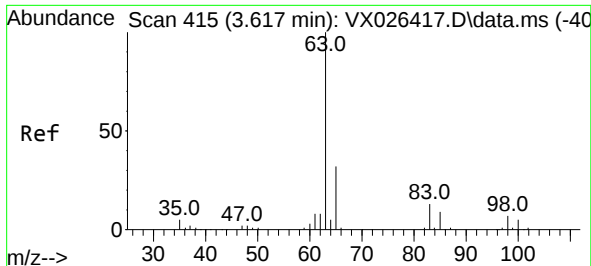
Tgt Ion: 74 Resp: 17624
Ion Ratio Lower Upper
74 100
45 100.7 50.7 152.1



#16
Acetone
Concen: 23.556 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

Tgt Ion: 43 Resp: 20601
Ion Ratio Lower Upper
43 100
58 31.5 23.0 34.6

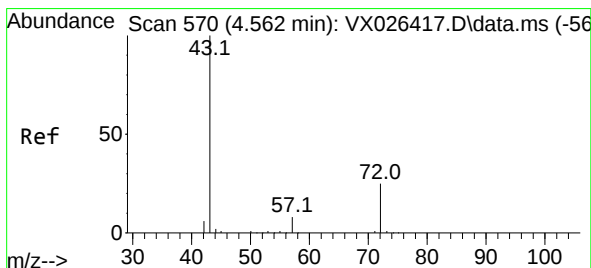
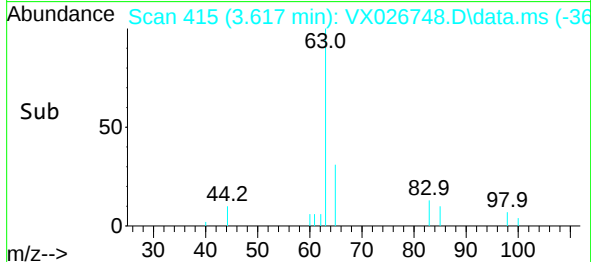
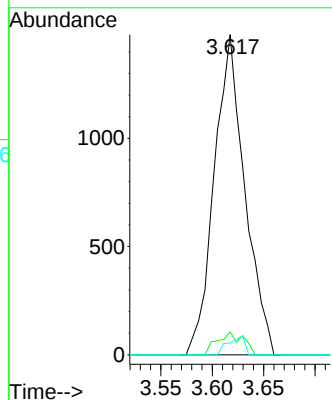
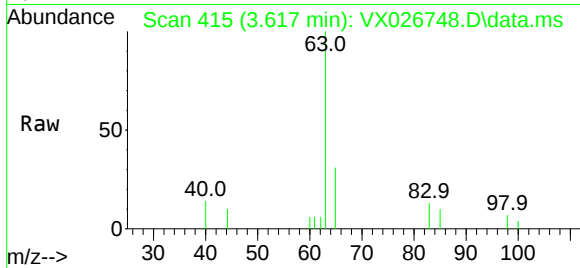




#24
1,1-Dichloroethane
Concen: 1.182 ug/l
RT: 3.617 min Scan# 415
Delta R.T. 0.000 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

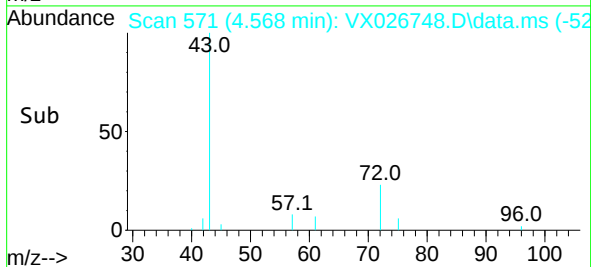
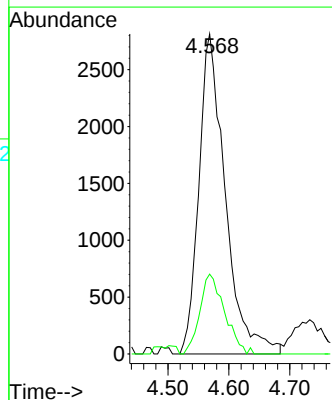
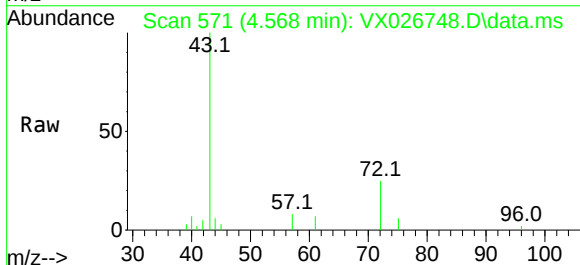
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATERDL

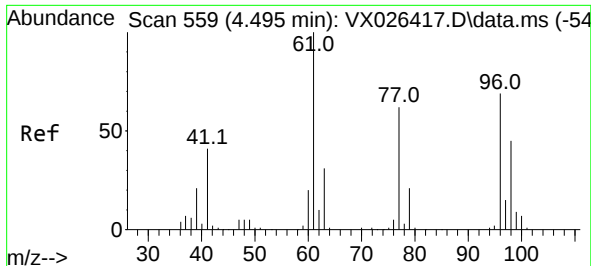
Tgt Ion: 63 Resp: 3058
Ion Ratio Lower Upper
63 100
98 7.1 3.7 11.1
100 3.7 2.4 7.2



#25
2-Butanone
Concen: 7.452 ug/l
RT: 4.568 min Scan# 571
Delta R.T. 0.006 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

Tgt Ion: 43 Resp: 8475
Ion Ratio Lower Upper
43 100
72 25.0 20.4 30.6





#27

cis-1,2-Dichloroethene

Concen: 15.271 ug/l

RT: 4.495 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX026748.D

Acq: 02 Feb 2022 19:39

Instrument :

MSVOA_X

ClientSampleId :

GROUNDWATERDL

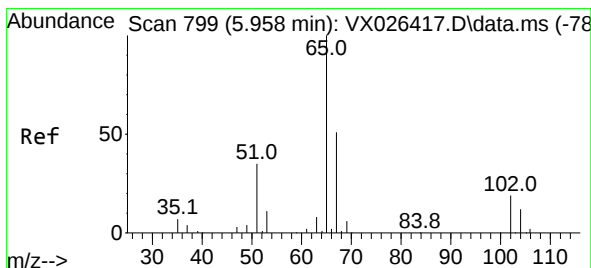
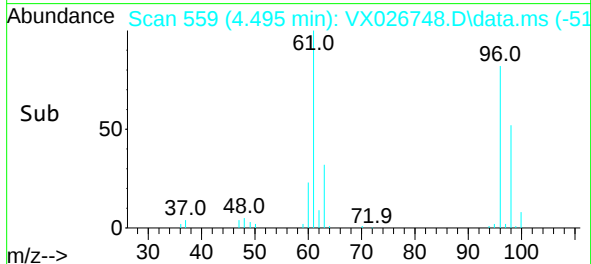
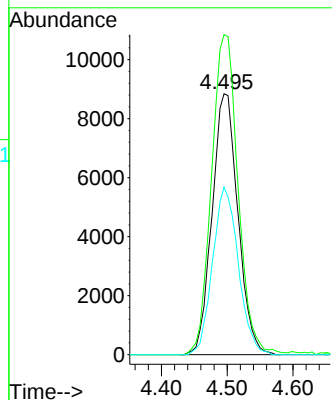
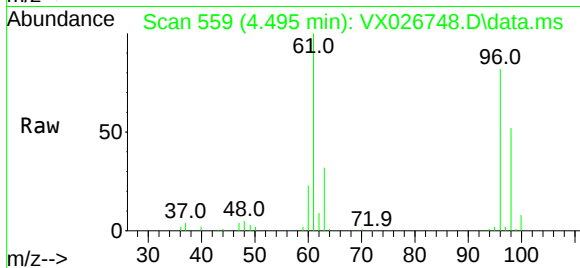
Tgt Ion: 96 Resp: 24191

Ion Ratio Lower Upper

96 100

61 125.8 0.0 296.6

98 63.9 0.0 128.8



#33

1,2-Dichloroethane-d4

Concen: 45.735 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.006 min

Lab File: VX026748.D

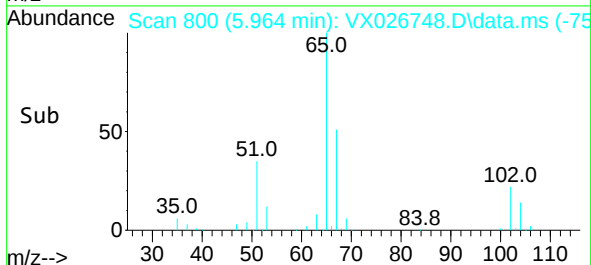
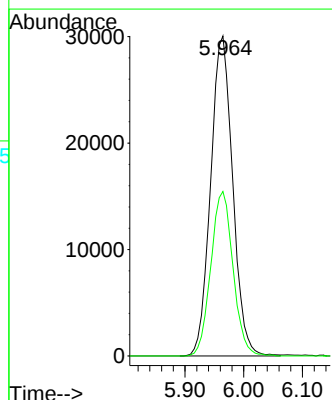
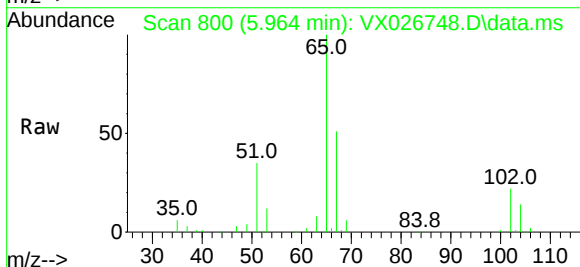
Acq: 02 Feb 2022 19:39

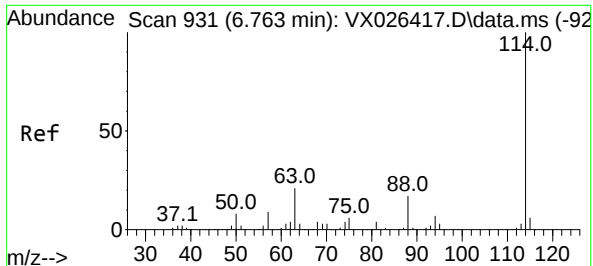
Tgt Ion: 65 Resp: 78431

Ion Ratio Lower Upper

65 100

67 51.7 0.0 100.8

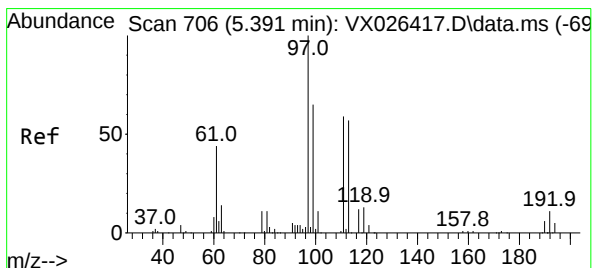
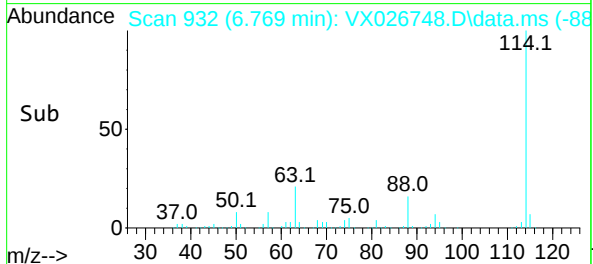
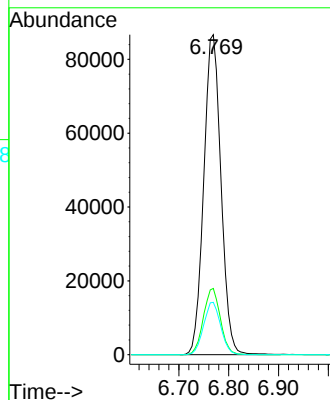
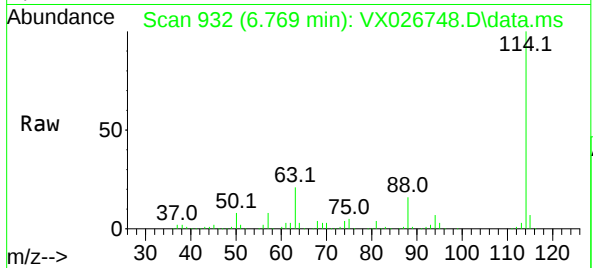




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

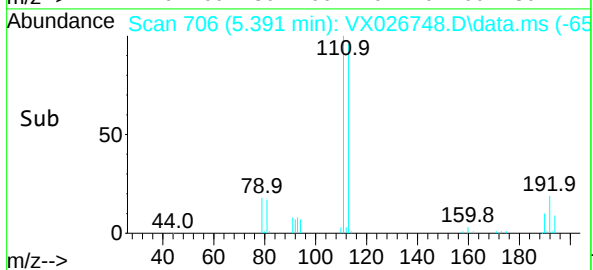
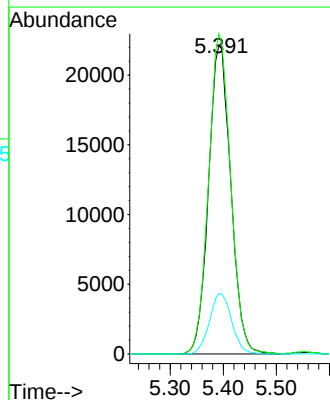
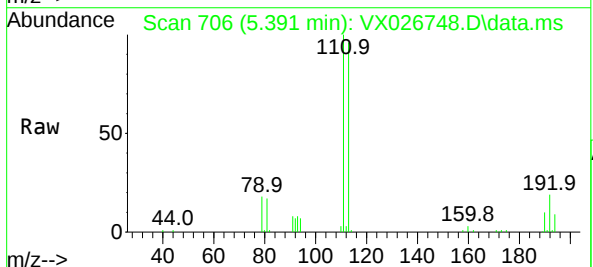
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATERDL

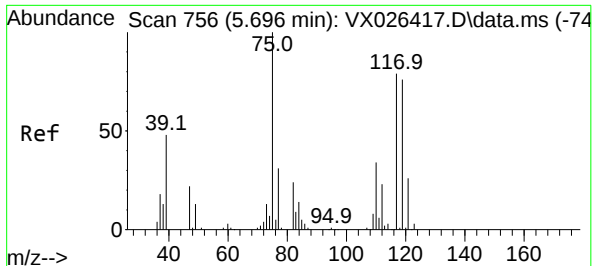
Tgt Ion:114 Resp: 208032
Ion Ratio Lower Upper
114 100
63 20.7 0.0 42.8
88 16.4 0.0 33.0



#35
Dibromofluoromethane
Concen: 48.084 ug/l
RT: 5.391 min Scan# 706
Delta R.T. 0.000 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

Tgt Ion:113 Resp: 64596
Ion Ratio Lower Upper
113 100
111 103.1 81.2 121.8
192 19.5 15.0 22.4





#36

1,1-Dichloropropene

Concen: 4.304 ug/l

RT: 5.562 min Scan# 71

Delta R.T. -0.134 min

Lab File: VX026748.D

Acq: 02 Feb 2022 19:39

Instrument :

MSVOA_X

ClientSampleId :

GROUNDWATERDL

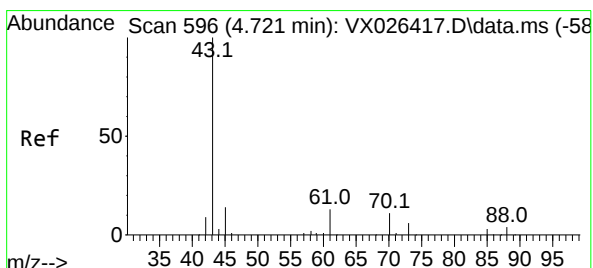
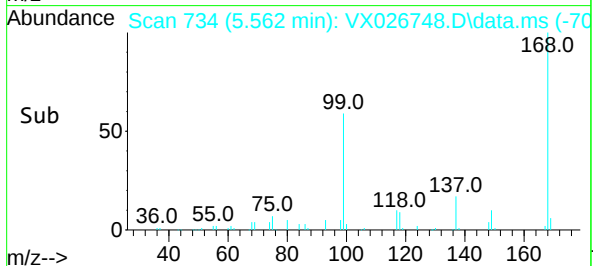
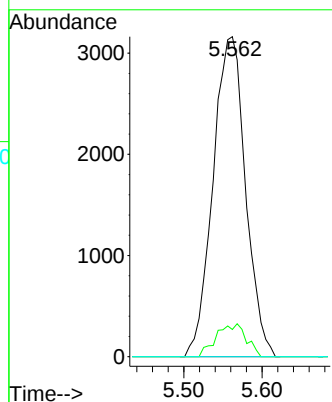
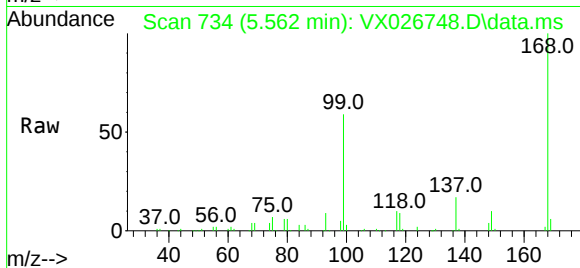
Tgt Ion: 75 Resp: 9128

Ion Ratio Lower Upper

75 100

110 9.4 17.2 51.6#

77 0.0 24.6 36.8#



#37

Ethyl Acetate

Concen: 0.514 ug/l

RT: 4.733 min Scan# 598

Delta R.T. 0.012 min

Lab File: VX026748.D

Acq: 02 Feb 2022 19:39

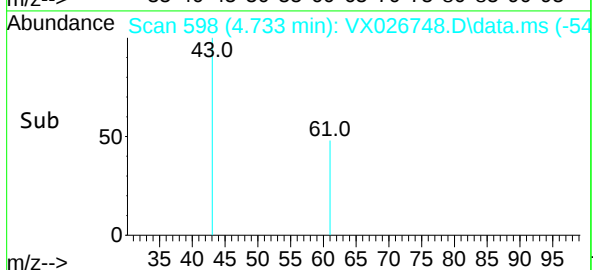
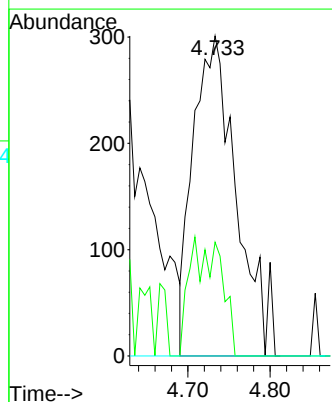
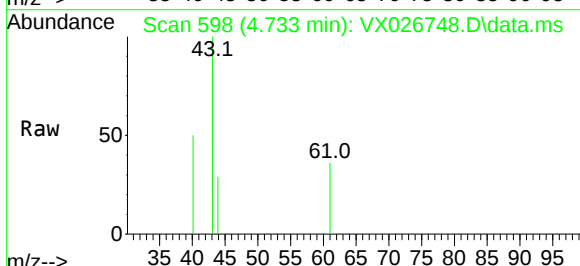
Tgt Ion: 43 Resp: 1102

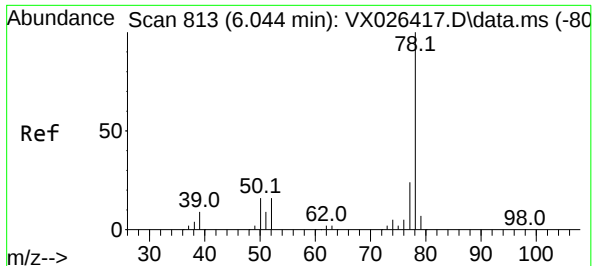
Ion Ratio Lower Upper

43 100

61 0.0 10.6 16.0#

70 0.0 8.5 12.7#





#40

Benzene

Concen: 10.214 ug/l

RT: 6.044 min Scan# 813

Delta R.T. 0.000 min

Lab File: VX026748.D

Acq: 02 Feb 2022 19:39

Instrument :

MSVOA_X

ClientSampleId :

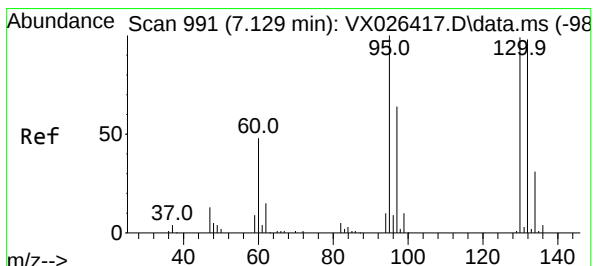
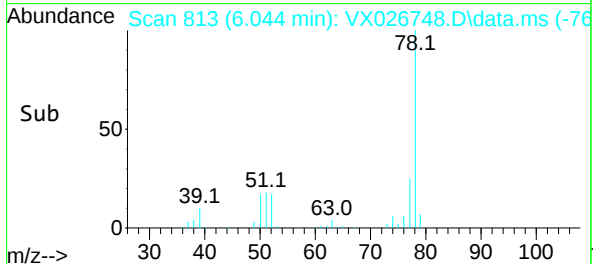
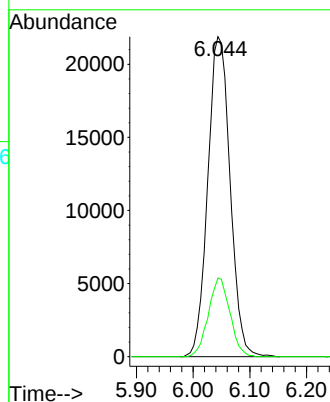
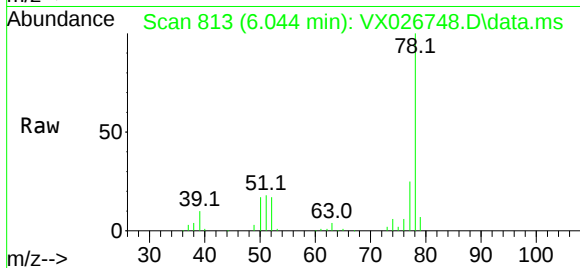
GROUNDWATERDL

Tgt Ion: 78 Resp: 59874

Ion Ratio Lower Upper

78 100

77 24.6 18.9 28.3



#44

Trichloroethene

Concen: 1.333 ug/l

RT: 7.129 min Scan# 991

Delta R.T. 0.000 min

Lab File: VX026748.D

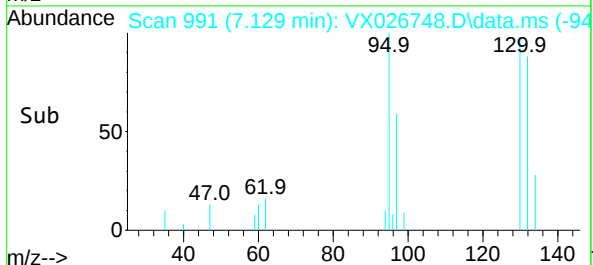
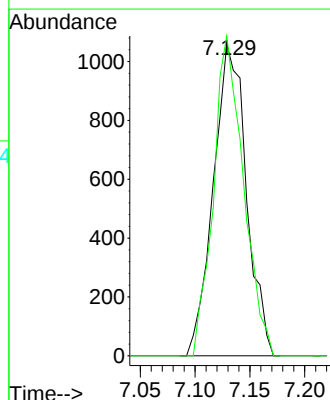
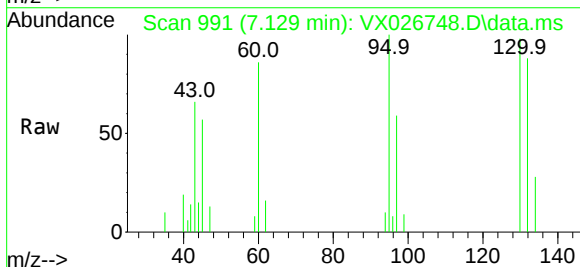
Acq: 02 Feb 2022 19:39

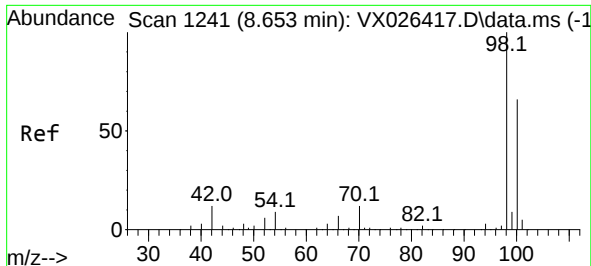
Tgt Ion:130 Resp: 2217

Ion Ratio Lower Upper

130 100

95 102.5 0.0 202.6

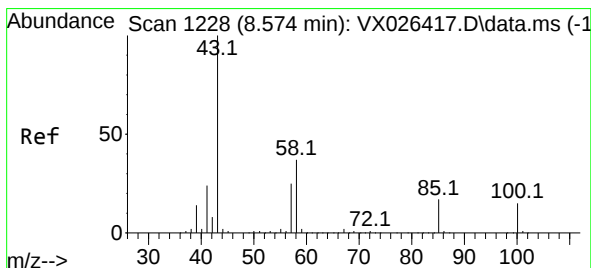
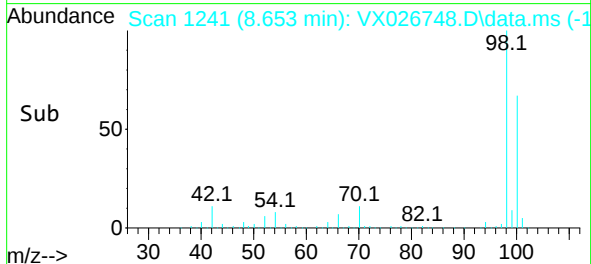
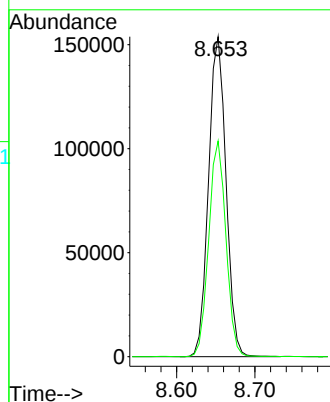
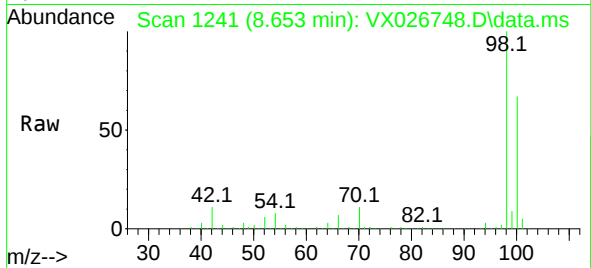




#50
Toluene-d8
Concen: 49.136 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

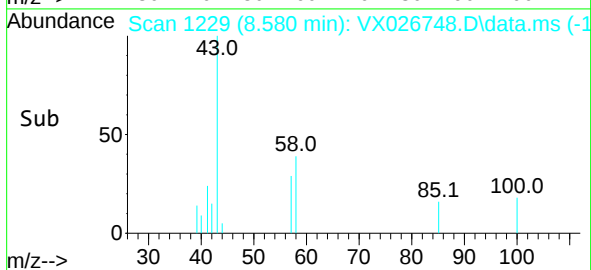
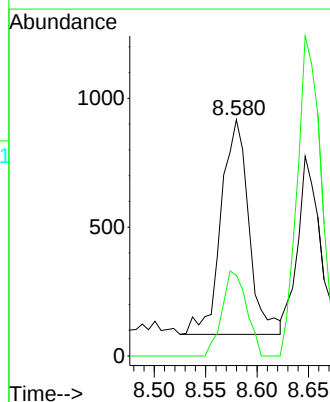
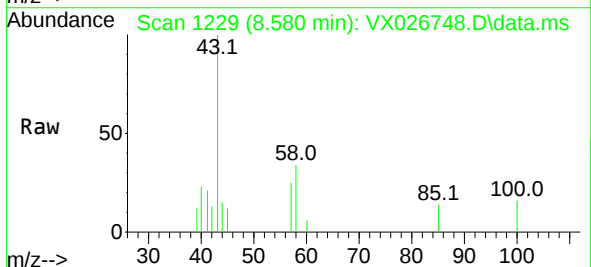
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATERDL

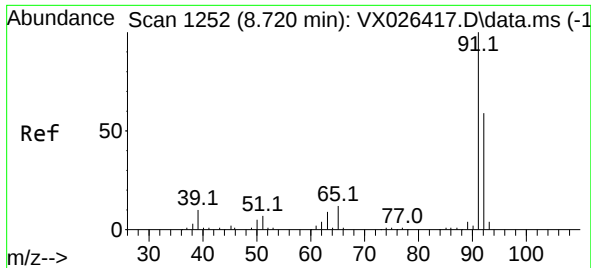
Tgt Ion: 98 Resp: 237871
Ion Ratio Lower Upper
98 100
100 66.6 53.2 79.8



#51
4-Methyl-2-Pentanone
Concen: 0.765 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

Tgt Ion: 43 Resp: 1573
Ion Ratio Lower Upper
43 100
58 34.6 30.5 45.7

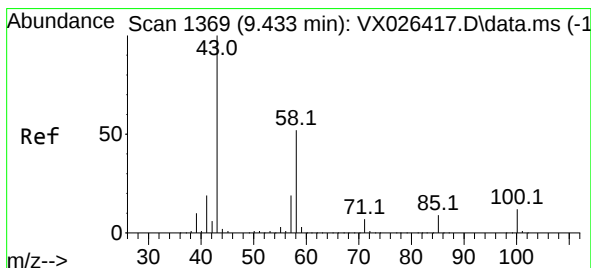
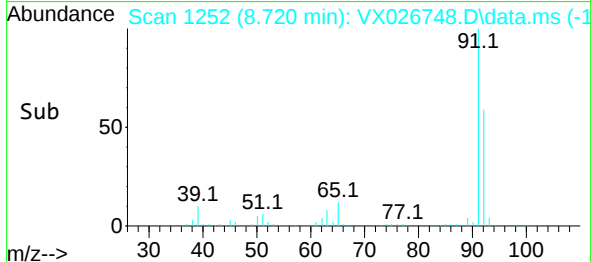
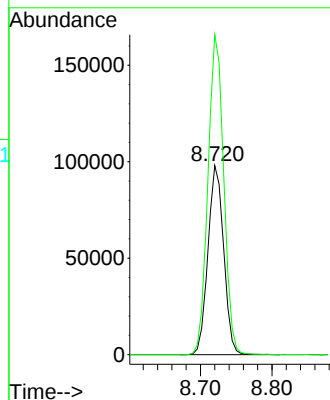
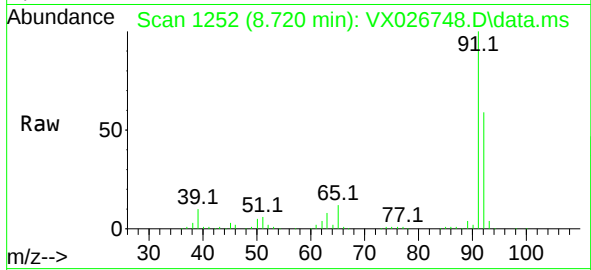




#52
Toluene
Concen: 41.567 ug/l
RT: 8.720 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

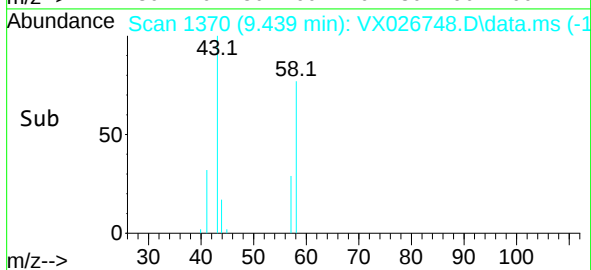
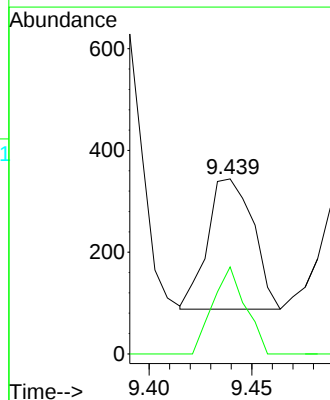
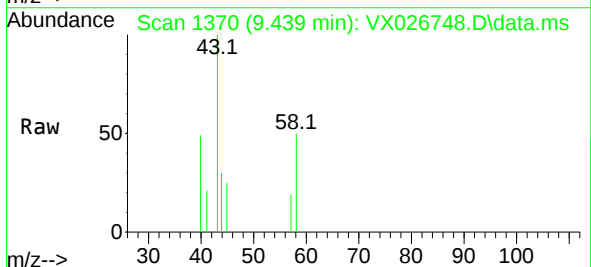
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATERDL

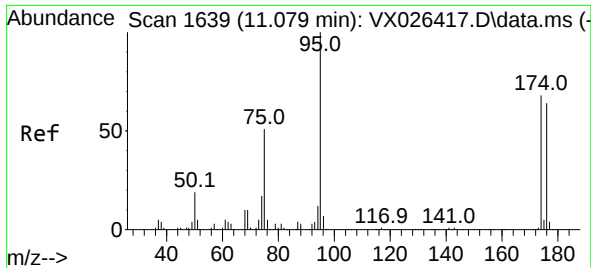
Tgt Ion: 92 Resp: 149417
Ion Ratio Lower Upper
92 100
91 170.3 135.7 203.5



#59
2-Hexanone
Concen: 0.252 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.006 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

Tgt Ion: 43 Resp: 396
Ion Ratio Lower Upper
43 100
58 48.0 26.4 79.2

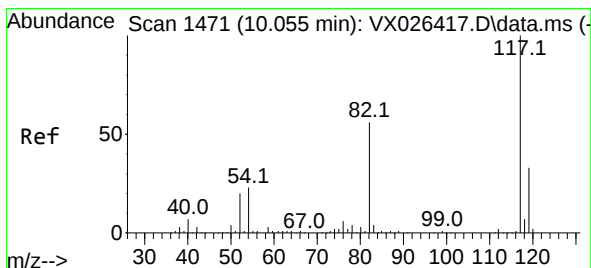
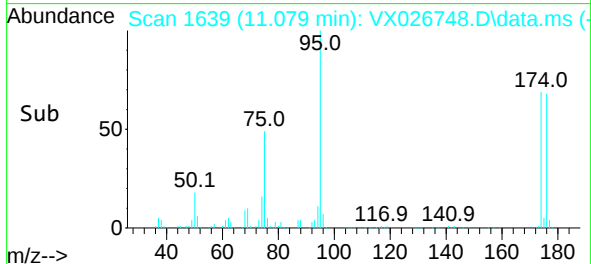
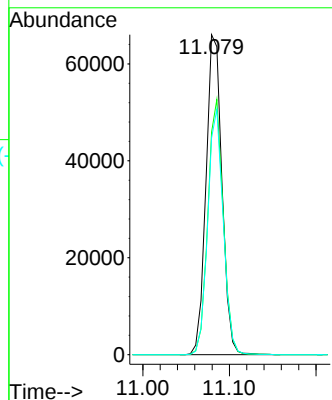
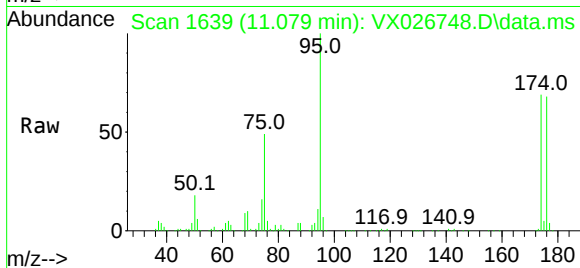




#62
4-Bromofluorobenzene
Concen: 49.069 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

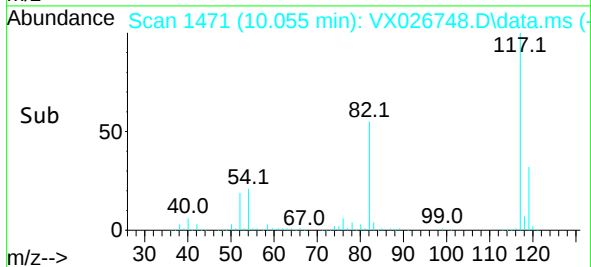
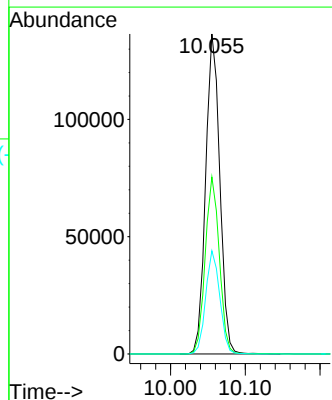
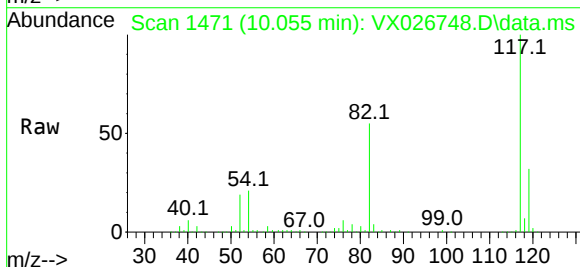
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATERDL

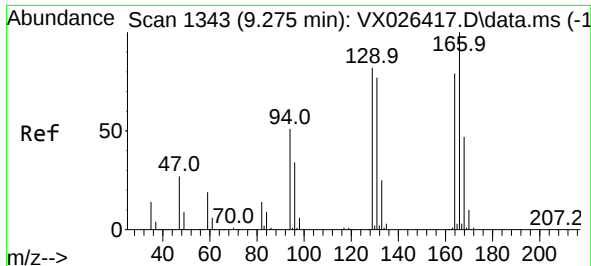
Tgt Ion: 95 Resp: 84385
Ion Ratio Lower Upper
95 100
174 76.9 0.0 148.6
176 74.6 0.0 141.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

Tgt Ion: 117 Resp: 179549
Ion Ratio Lower Upper
117 100
82 55.3 45.2 67.8
119 32.2 26.2 39.2

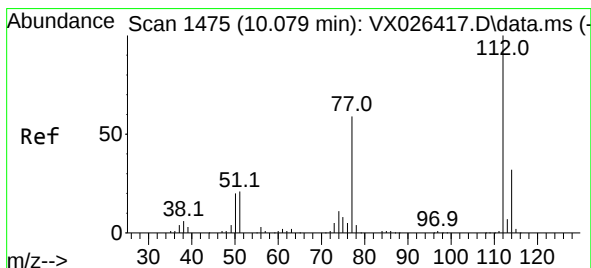
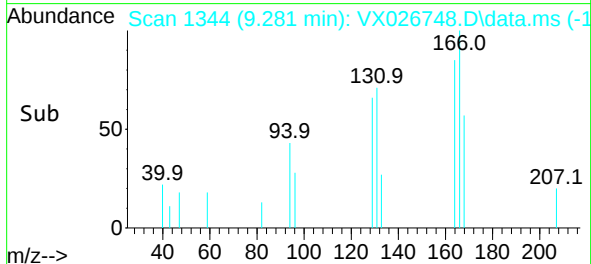
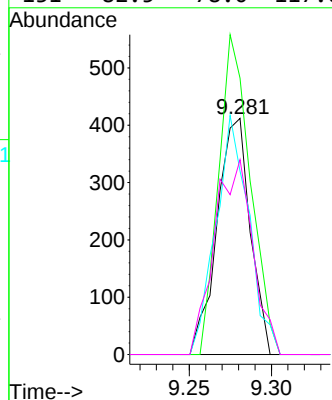
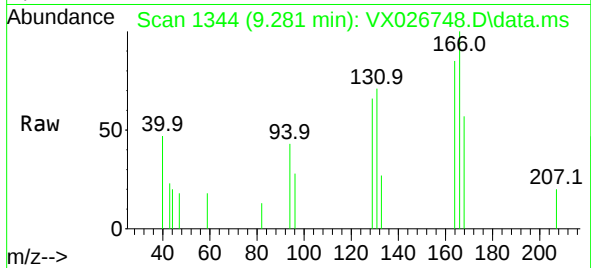




#64
Tetrachloroethene
Concen: 0.340 ug/l
RT: 9.281 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

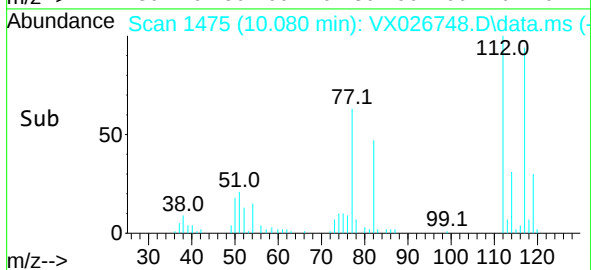
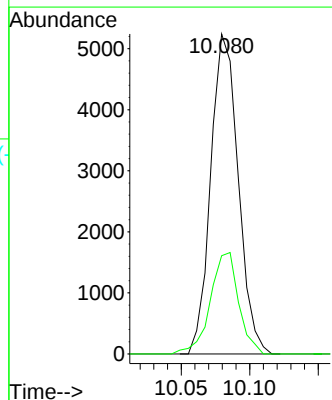
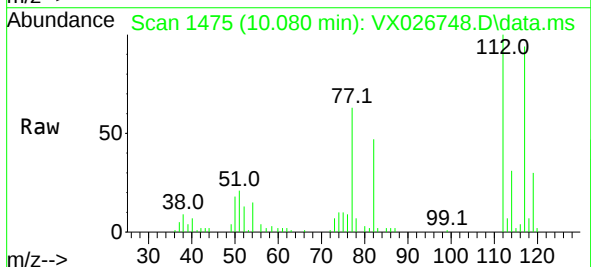
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATERDL

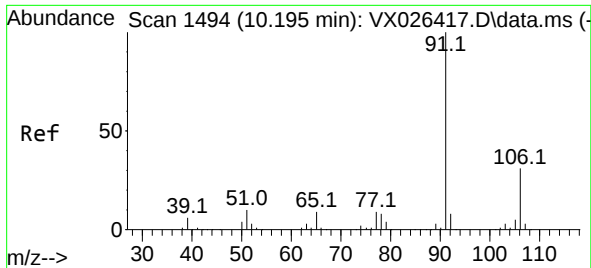
Tgt Ion:164 Resp: 577
Ion Ratio Lower Upper
164 100
166 117.0 101.8 152.6
129 77.7 83.3 124.9#
131 82.5 78.0 117.0



#65
Chlorobenzene
Concen: 1.931 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

Tgt Ion:112 Resp: 7301
Ion Ratio Lower Upper
112 100
114 30.7 25.3 37.9

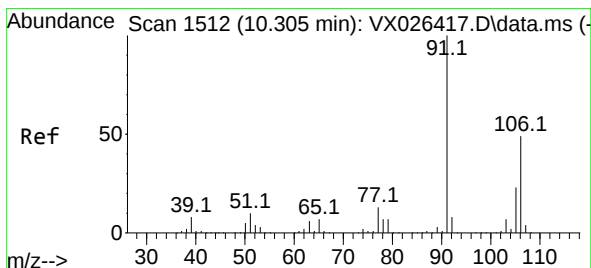
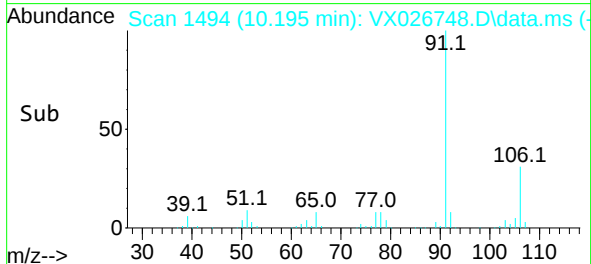
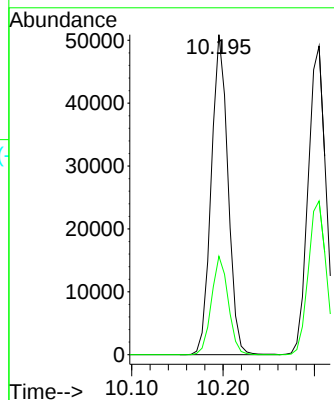
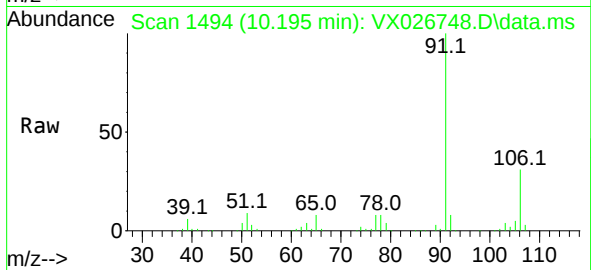




#67
Ethyl Benzene
Concen: 9.376 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

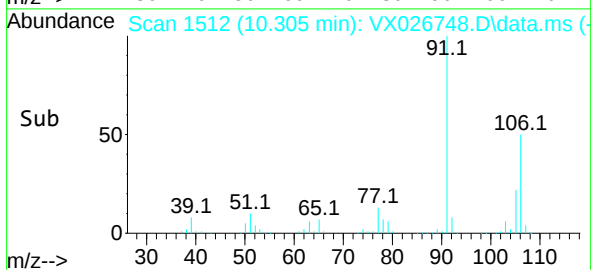
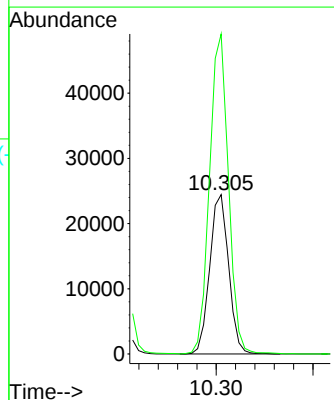
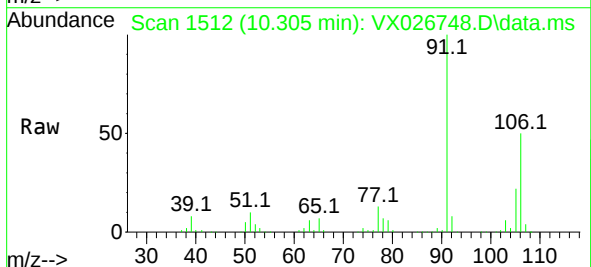
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATERDL

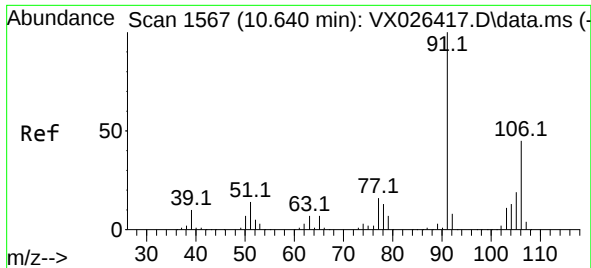
Tgt Ion: 91 Resp: 64426
Ion Ratio Lower Upper
91 100
106 30.8 24.7 37.1



#68
m/p-Xylenes
Concen: 12.936 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.000 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

Tgt Ion: 106 Resp: 33264
Ion Ratio Lower Upper
106 100
91 200.8 165.3 247.9

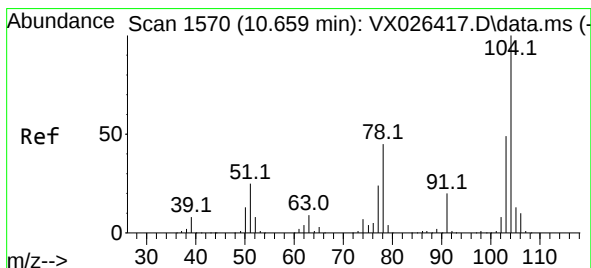
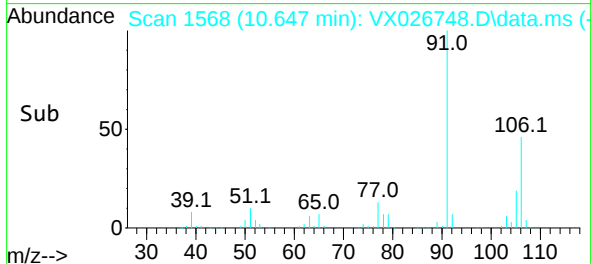
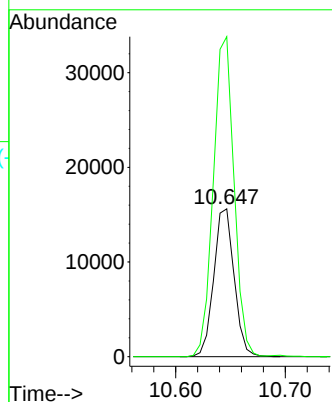
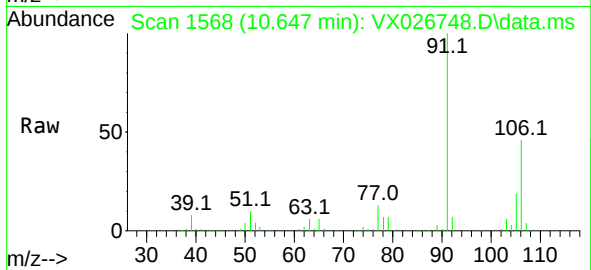




#69
o-Xylene
Concen: 8.137 ug/l
RT: 10.647 min Scan# 1567
Delta R.T. 0.006 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

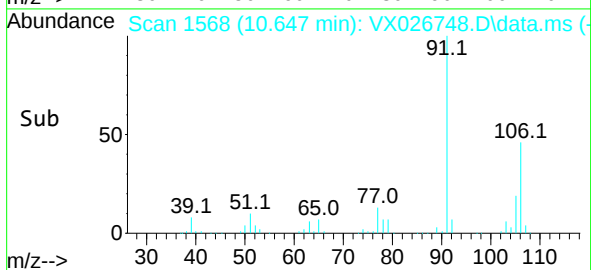
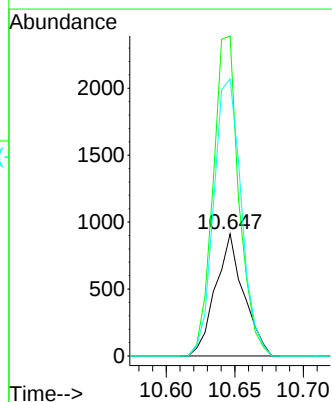
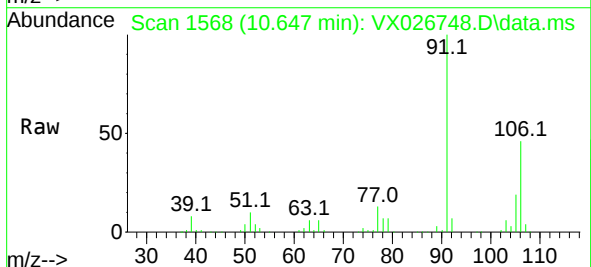
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATERDL

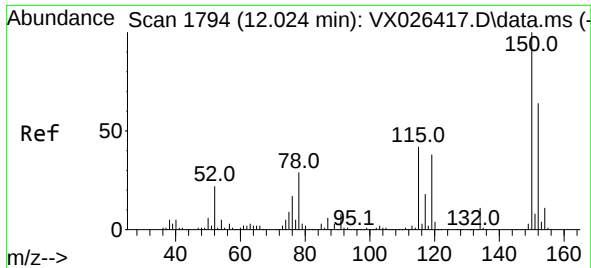
Tgt Ion:106 Resp: 20188
Ion Ratio Lower Upper
106 100
91 220.1 109.7 329.0



#70
Styrene
Concen: 0.321 ug/l
RT: 10.647 min Scan# 1568
Delta R.T. -0.012 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

Tgt Ion:104 Resp: 1301
Ion Ratio Lower Upper
104 100
78 241.4 42.5 63.7#
103 222.8 43.3 64.9#

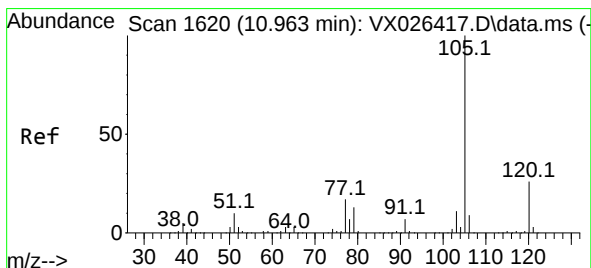
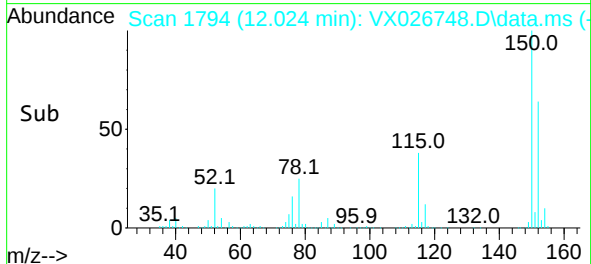
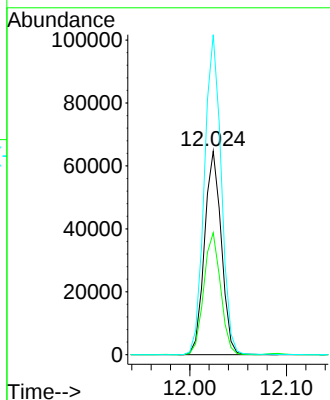
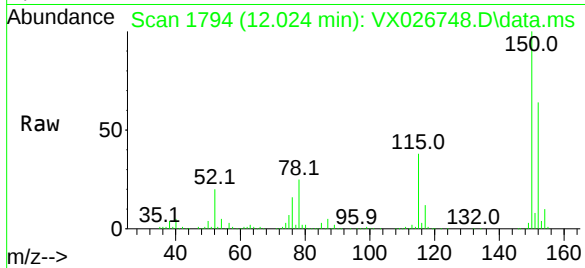




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

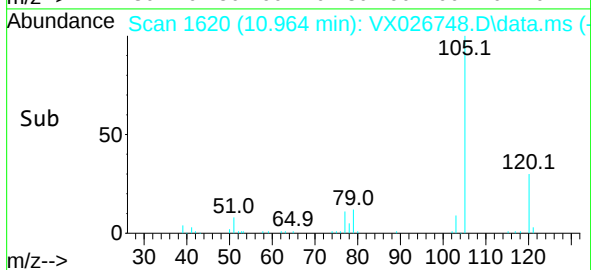
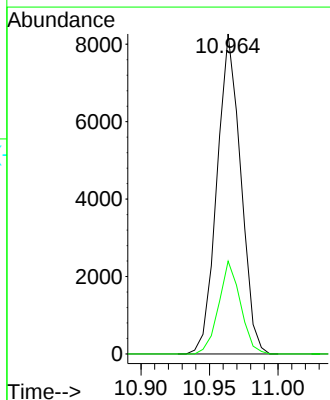
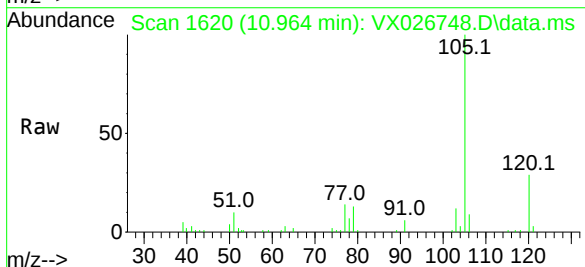
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATERDL

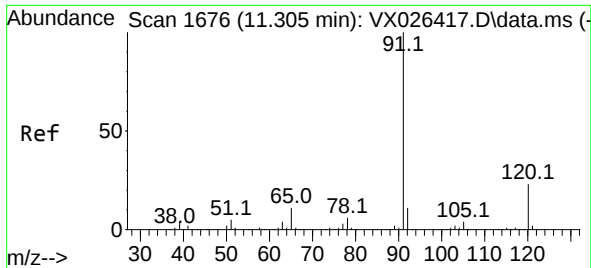
Tgt Ion:152 Resp: 78205
Ion Ratio Lower Upper
152 100
115 59.9 44.2 132.6
150 157.9 0.0 348.2



#73
Isopropylbenzene
Concen: 1.554 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

Tgt Ion:105 Resp: 9962
Ion Ratio Lower Upper
105 100
120 26.6 13.1 39.1

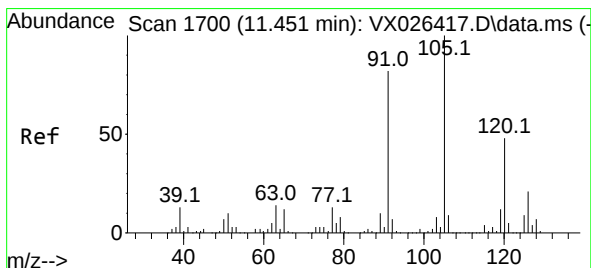
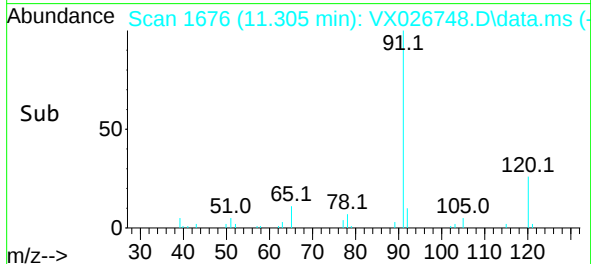
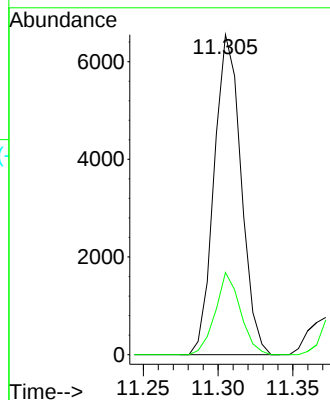
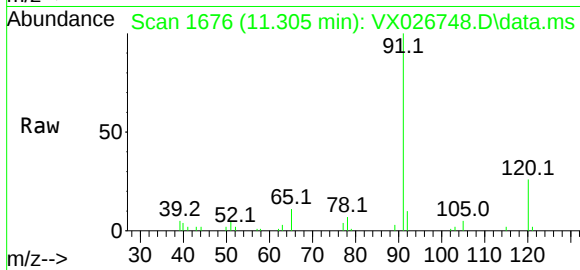




#78
n-propylbenzene
Concen: 1.123 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

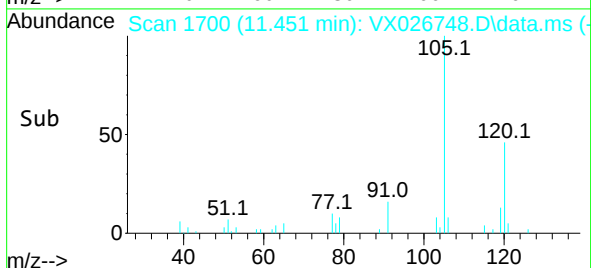
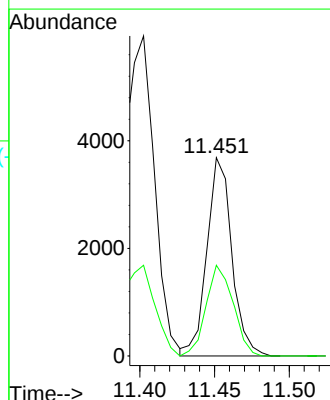
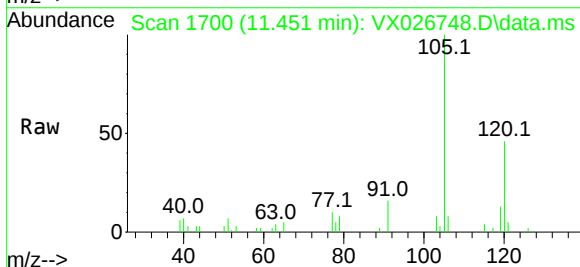
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATERDL

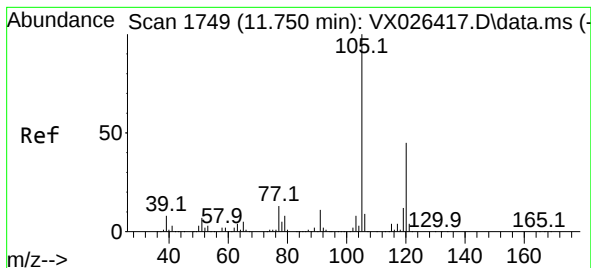
Tgt Ion: 91 Resp: 8207
Ion Ratio Lower Upper
91 100
120 23.9 11.6 34.7



#80
1,3,5-Trimethylbenzene
Concen: 0.809 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

Tgt Ion: 105 Resp: 4275
Ion Ratio Lower Upper
105 100
120 49.7 24.0 72.0





#84

1,2,4-Trimethylbenzene

Concen: 7.367 ug/l

RT: 11.756 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX026748.D

Acq: 02 Feb 2022 19:39

Instrument :

MSVOA_X

ClientSampleId :

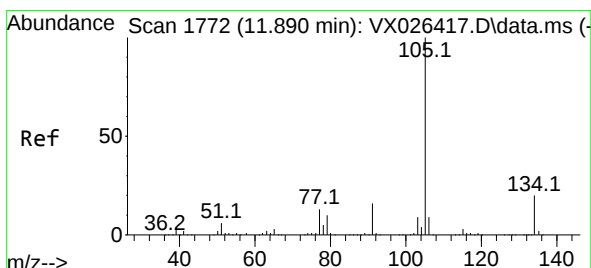
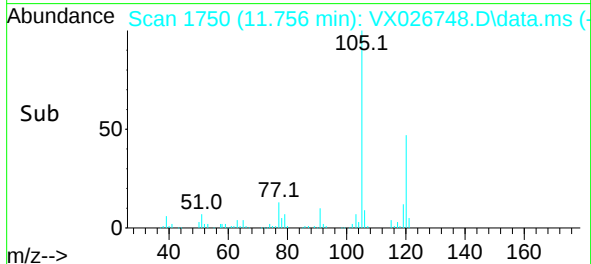
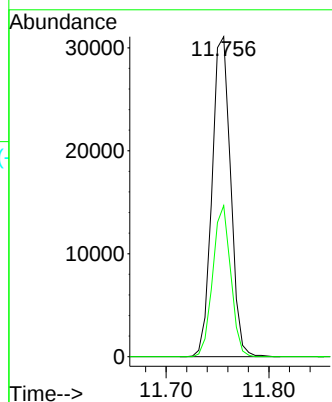
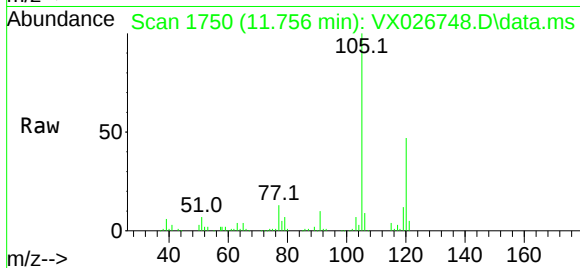
GROUNDWATERDL

Tgt Ion:105 Resp: 38942

Ion Ratio Lower Upper

105 100

120 45.6 21.9 65.5



#85

sec-Butylbenzene

Concen: 0.234 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX026748.D

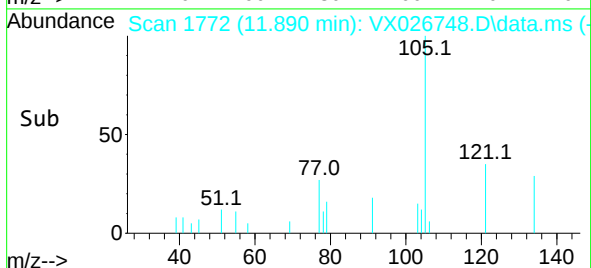
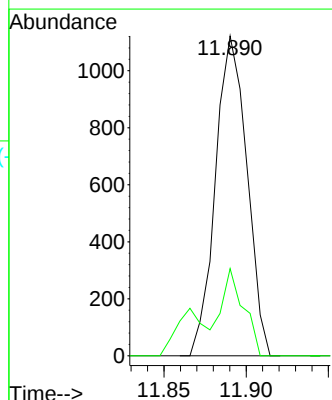
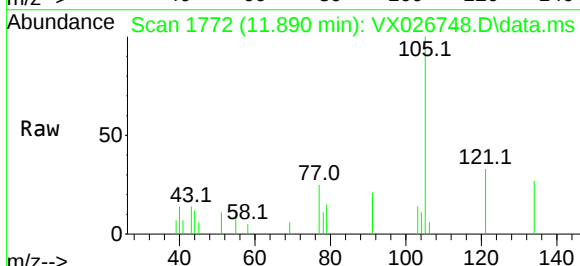
Acq: 02 Feb 2022 19:39

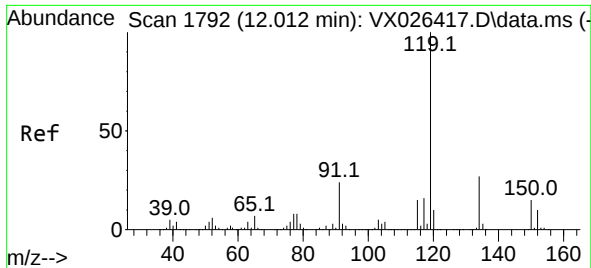
Tgt Ion:105 Resp: 1491

Ion Ratio Lower Upper

105 100

134 19.2 10.1 30.1

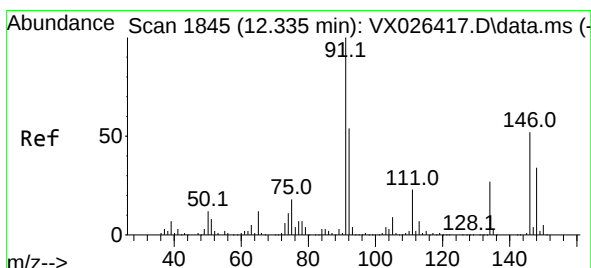
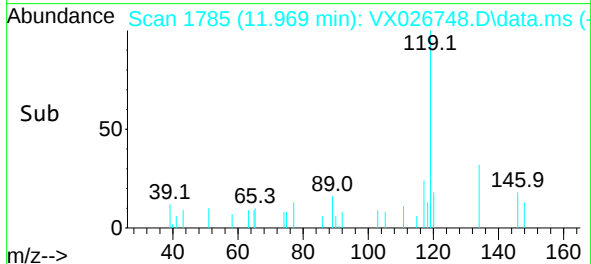
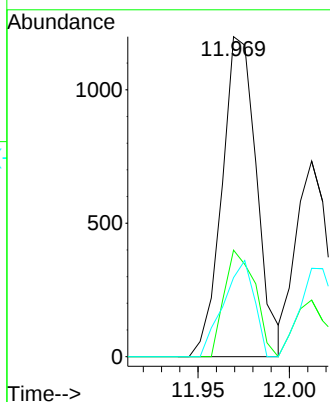
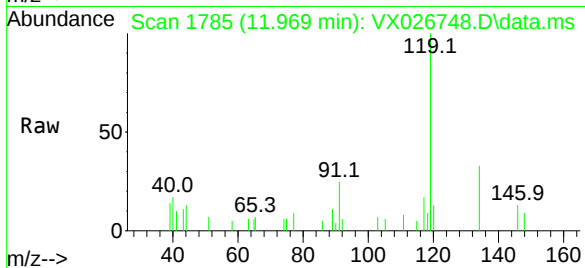




#86
p-Isopropyltoluene
Concen: 0.296 ug/l
RT: 11.969 min Scan# 11
Delta R.T. -0.043 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

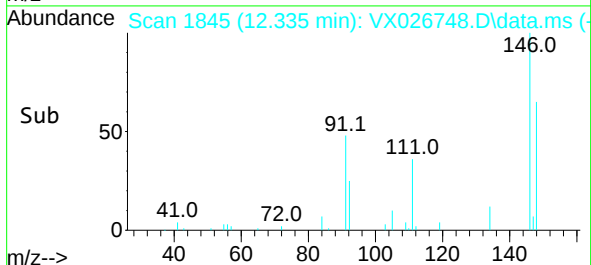
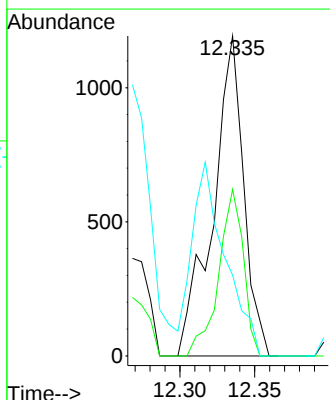
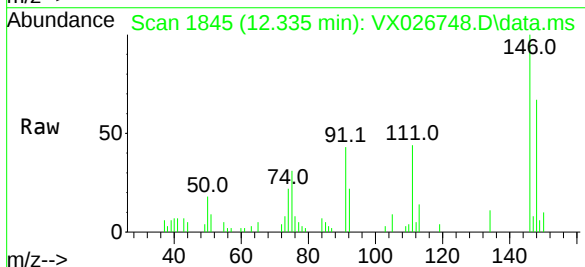
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATERDL

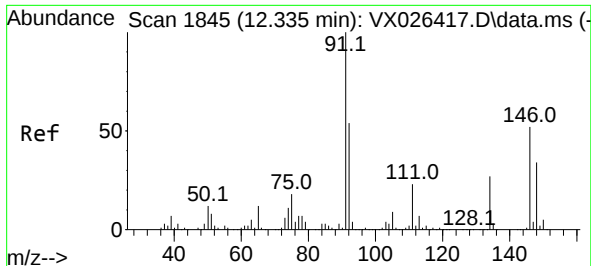
Tgt Ion:119 Resp: 1585
Ion Ratio Lower Upper
119 100
134 29.5 13.0 39.0
91 26.5 12.6 37.6



#89
n-Butylbenzene
Concen: 0.371 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX026748.D
Acq: 02 Feb 2022 19:39

Tgt Ion: 91 Resp: 1704
Ion Ratio Lower Upper
91 100
92 41.9 27.2 81.6
134 65.4 13.1 39.1#





#91

1,2-Dichlorobenzene

Concen: 1.332 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.000 min

Lab File: VX026748.D

Acq: 02 Feb 2022 19:39

Instrument :

MSVOA_X

ClientSampleId :

GROUNDWATERDL

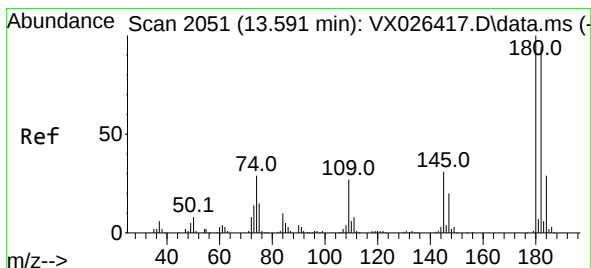
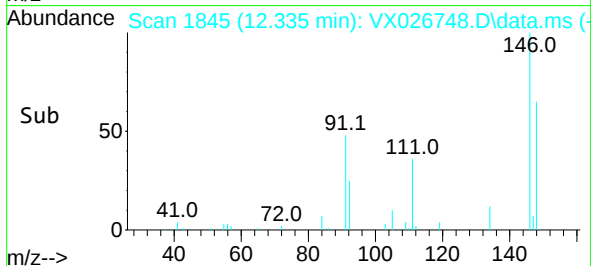
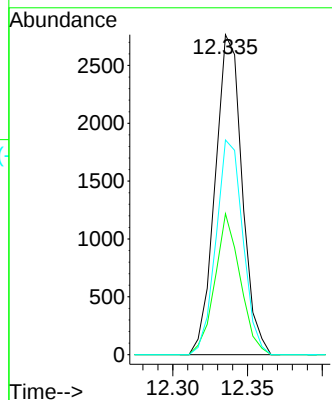
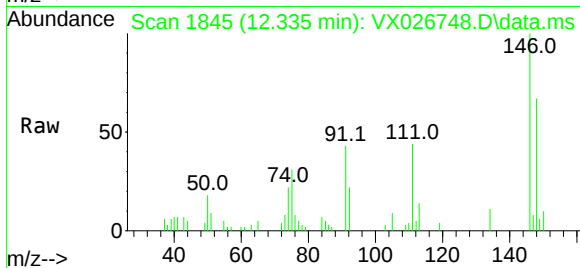
Tgt Ion:146 Resp: 3465

Ion Ratio Lower Upper

146 100

111 41.4 21.8 65.3

148 67.0 32.0 96.2



#93

1,2,4-Trichlorobenzene

Concen: 0.453 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.000 min

Lab File: VX026748.D

Acq: 02 Feb 2022 19:39

Tgt Ion:180 Resp: 755

Ion Ratio Lower Upper

180 100

182 98.1 46.7 140.0

145 47.3 16.3 48.8

