

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112023\
 Data File : VX038951.D
 Acq On : 20 Nov 2023 12:24
 Operator : JC/MD
 Sample : 05428-01 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D2-20231113

Quant Time: Nov 21 00:18:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X111623W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 16 22:59:22 2023
 Response via : Initial Calibration

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

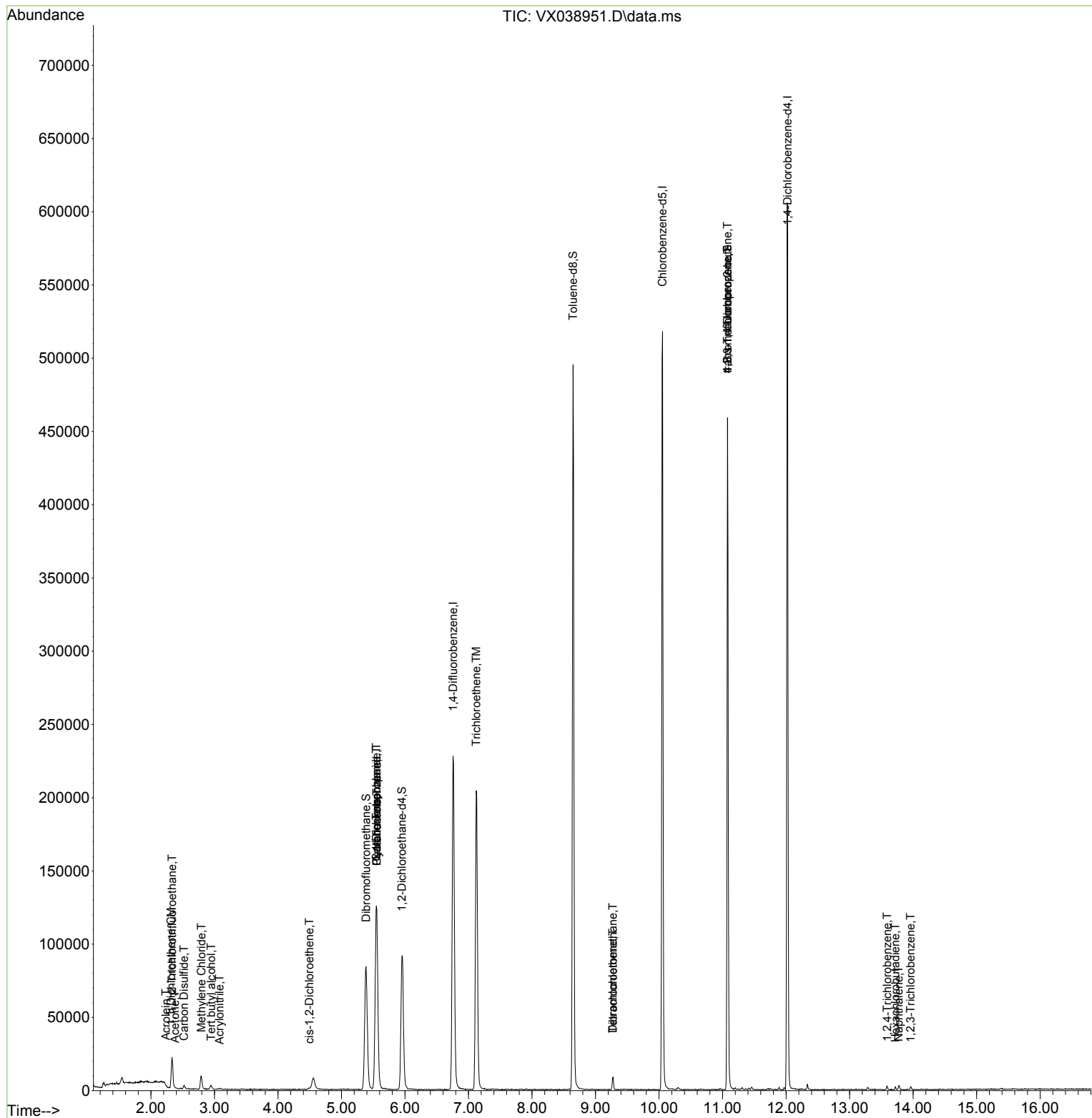
Internal Standards						
1) Pentafluorobenzene	5.556	168	116181	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	231381	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	234930	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	119043	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	89094	47.591	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	95.180%		
35) Dibromofluoromethane	5.385	113	74175	44.387	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	88.780%		
50) Toluene-d8	8.647	98	289175	45.228	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	90.460%#		
62) 4-Bromofluorobenzene	11.079	95	125689	49.108	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	98.220%		
Target Compounds					Qvalue	
9) 1,1,2-Trichlorotrifluo...	2.331	101	7970	5.557	ug/l	92
11) Tert butyl alcohol	2.947	59	1758	3.376	ug/l #	85
12) 1,1-Dichloroethene	2.319	96	377	0.260	ug/l #	85
13) Acrolein	2.233	56	118	0.428	ug/l #	1
15) Acrylonitrile	3.081	53	433	0.394	ug/l #	82
16) Acetone	2.380	43	926	0.929	ug/l	97
17) Carbon Disulfide	2.520	76	1249	0.278	ug/l #	88
20) Methylene Chloride	2.794	84	4264	2.374	ug/l	95
27) cis-1,2-Dichloroethene	4.495	96	707	0.380	ug/l #	12
31) Cyclohexane	5.556	56	3218	1.204	ug/l #	16
36) 1,1-Dichloropropene	5.550	75	10772	4.498	ug/l #	50
38) Carbon Tetrachloride	5.550	117	12415	5.609	ug/l #	15
44) Trichloroethene	7.123	130	76227	44.208	ug/l	95
60) Dibromochloromethane	9.275	129	1539	0.825	ug/l #	11
64) Tetrachloroethene	9.275	164	1463	1.002	ug/l #	86
76) 1,2,3-Trichloropropane	11.079	75	66162	22.276	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	66162	49.410	ug/l #	5
93) 1,2,4-Trichlorobenzene	13.591	180	772	0.298	ug/l	85
94) Hexachlorobutadiene	13.719	225	253	0.275	ug/l	75
95) Naphthalene	13.774	128	2213	0.229	ug/l #	96
96) 1,2,3-Trichlorobenzene	13.963	180	590	0.240	ug/l	90

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

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RE120D2-20231113

Quant Time: Nov 21 00:18:01 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X111623W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 16 22:59:22 2023
Response via : Initial Calibration

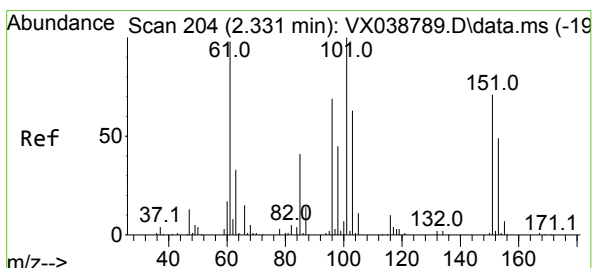
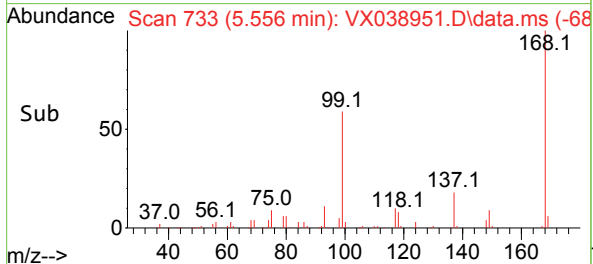
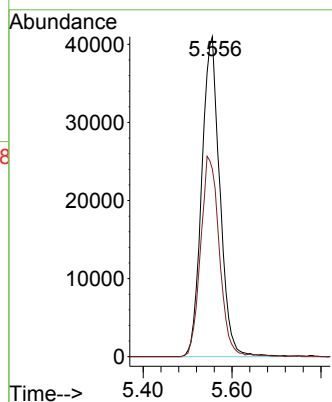
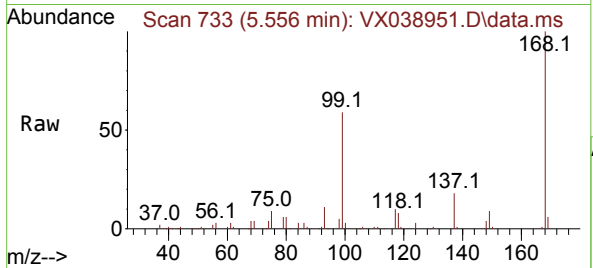




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX038951.D
Acq: 20 Nov 2023 12:24

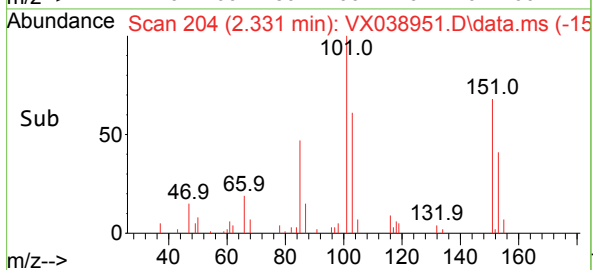
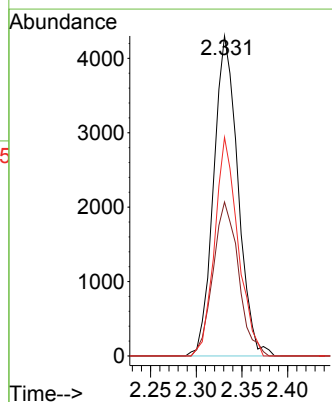
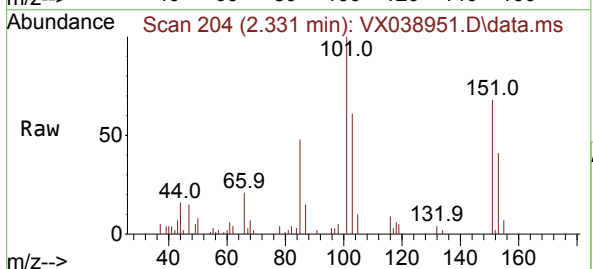
Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20231113

Tgt Ion:168 Resp: 116181
Ion Ratio Lower Upper
168 100
99 58.6 56.6 85.0



#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.557 ug/l
RT: 2.331 min Scan# 204
Delta R.T. 0.000 min
Lab File: VX038951.D
Acq: 20 Nov 2023 12:24

Tgt Ion:101 Resp: 7970
Ion Ratio Lower Upper
101 100
85 50.3 37.0 55.6
151 65.6 58.6 87.8





#11

Tert butyl alcohol

Concen: 3.376 ug/l

RT: 2.947 min Scan# 306

Delta R.T. -0.006 min

Lab File: VX038951.D

Acq: 20 Nov 2023 12:24

Instrument :

MSVOA_X

ClientSampleId :

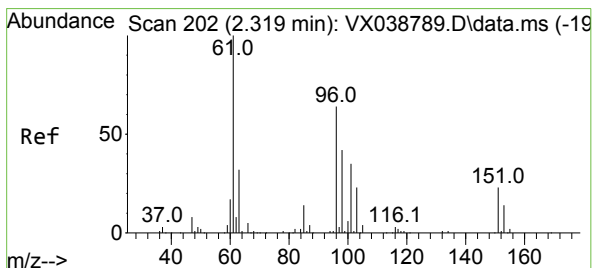
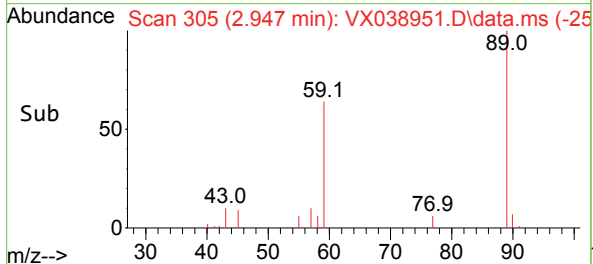
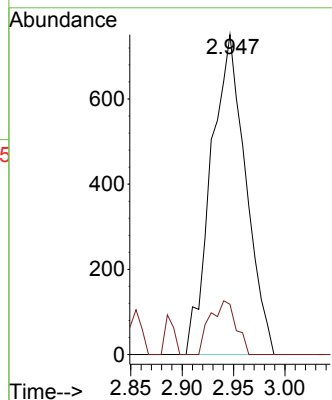
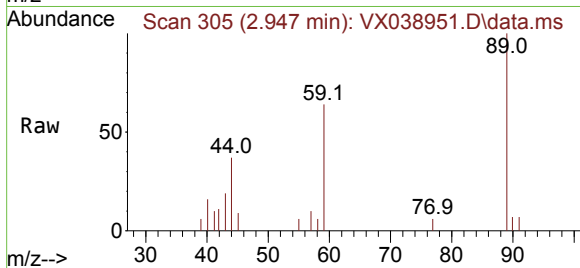
RE120D2-20231113

Tgt Ion: 59 Resp: 1758

Ion Ratio Lower Upper

59 100

57 12.6 6.0 9.0#



#12

1,1-Dichloroethene

Concen: 0.260 ug/l

RT: 2.319 min Scan# 202

Delta R.T. 0.000 min

Lab File: VX038951.D

Acq: 20 Nov 2023 12:24

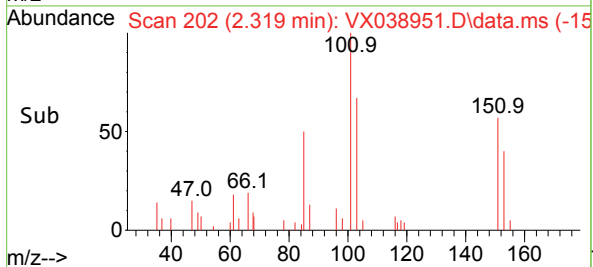
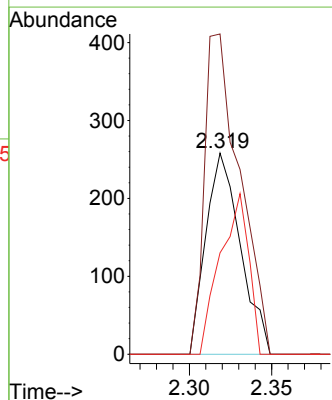
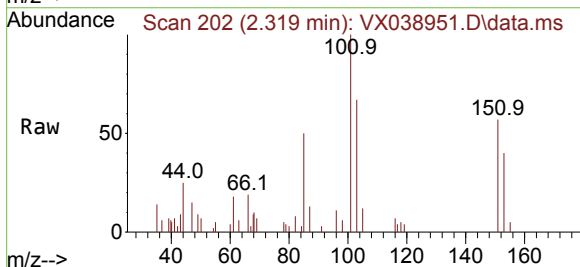
Tgt Ion: 96 Resp: 377

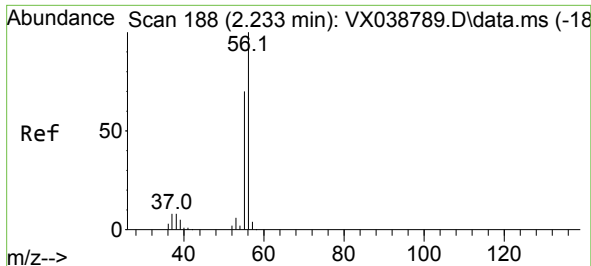
Ion Ratio Lower Upper

96 100

61 159.3 144.6 216.8

98 50.4 50.4 75.6#





#13

Acrolein

Concen: 0.428 ug/l

RT: 2.233 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX038951.D

Acq: 20 Nov 2023 12:24

Instrument :

MSVOA_X

ClientSampleId :

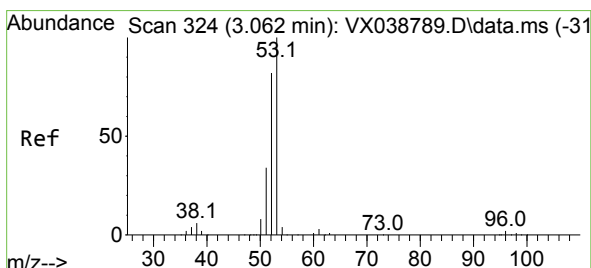
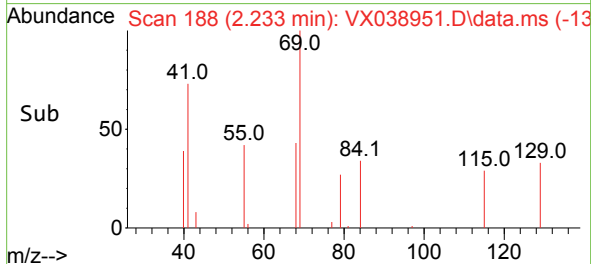
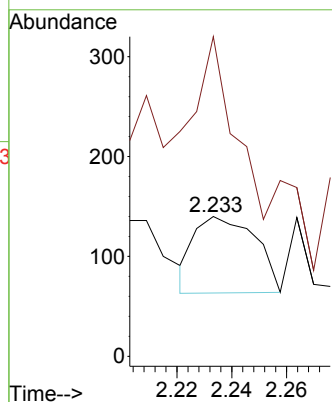
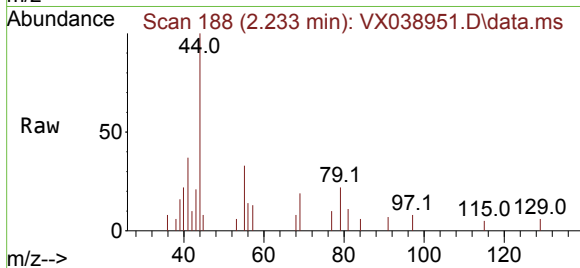
RE120D2-20231113

Tgt Ion: 56 Resp: 118

Ion Ratio Lower Upper

56 100

55 272.0 57.1 85.7#



#15

Acrylonitrile

Concen: 0.394 ug/l

RT: 3.081 min Scan# 327

Delta R.T. 0.018 min

Lab File: VX038951.D

Acq: 20 Nov 2023 12:24

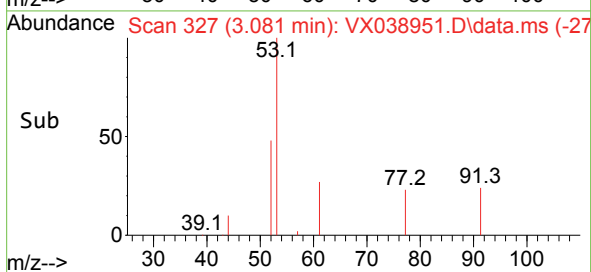
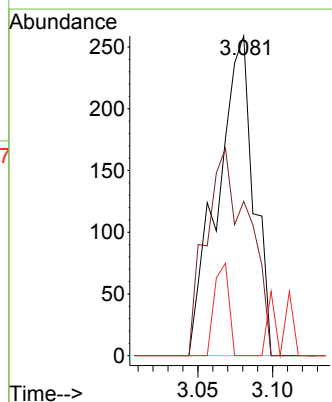
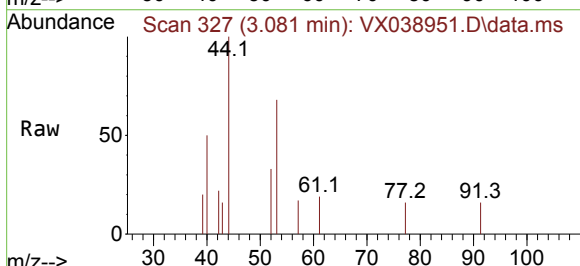
Tgt Ion: 53 Resp: 433

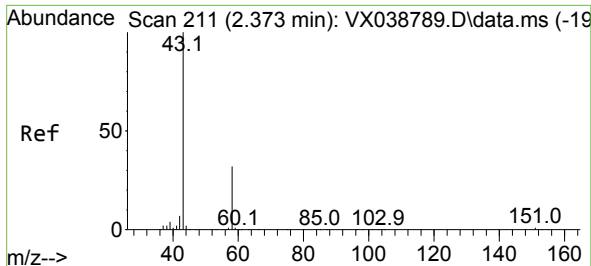
Ion Ratio Lower Upper

53 100

52 76.4 66.0 99.0

51 11.5 29.8 44.6#





#16

Acetone

Concen: 0.929 ug/l

RT: 2.380 min Scan# 211

Delta R.T. 0.006 min

Lab File: VX038951.D

Acq: 20 Nov 2023 12:24

Instrument :

MSVOA_X

ClientSampleId :

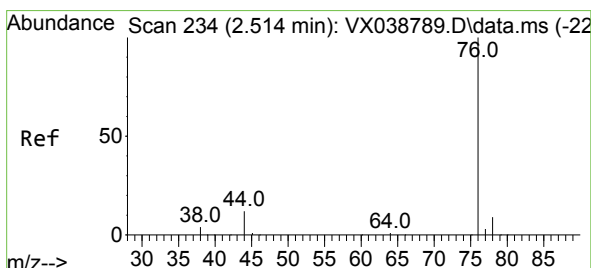
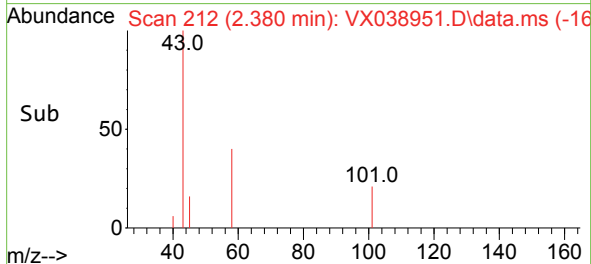
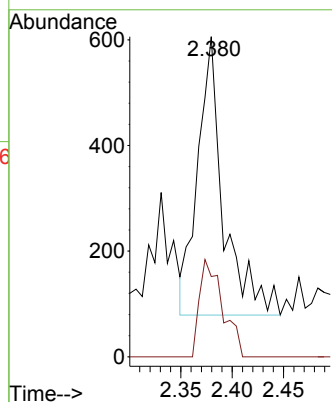
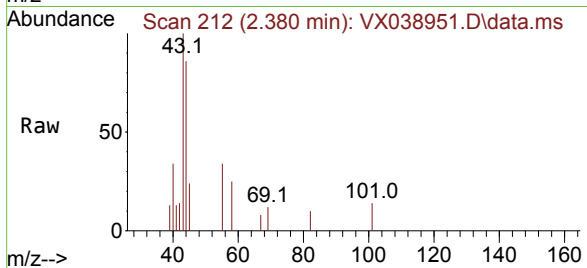
RE120D2-20231113

Tgt Ion: 43 Resp: 926

Ion Ratio Lower Upper

43 100

58 28.8 21.9 32.9



#17

Carbon Disulfide

Concen: 0.278 ug/l

RT: 2.520 min Scan# 235

Delta R.T. 0.006 min

Lab File: VX038951.D

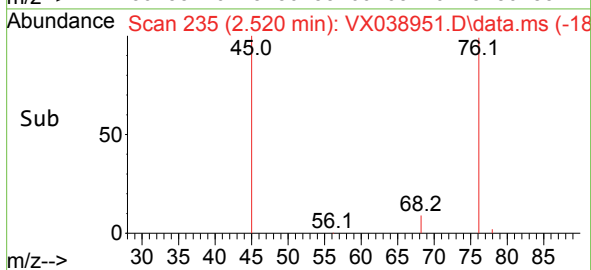
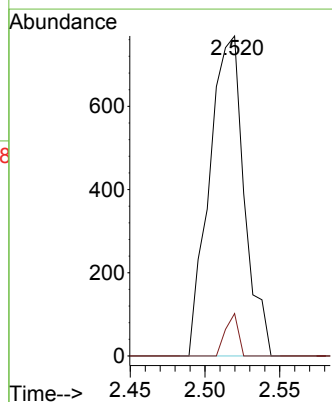
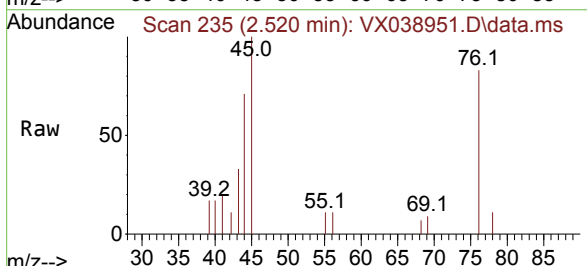
Acq: 20 Nov 2023 12:24

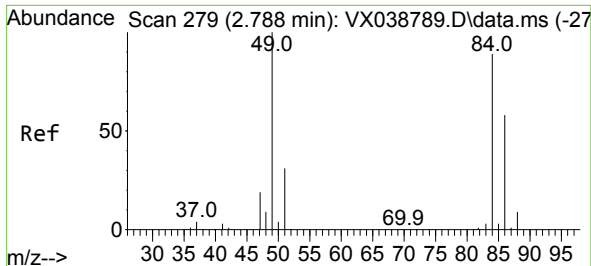
Tgt Ion: 76 Resp: 1249

Ion Ratio Lower Upper

76 100

78 13.3 7.0 10.6#

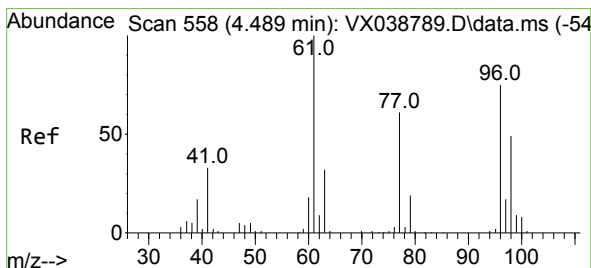
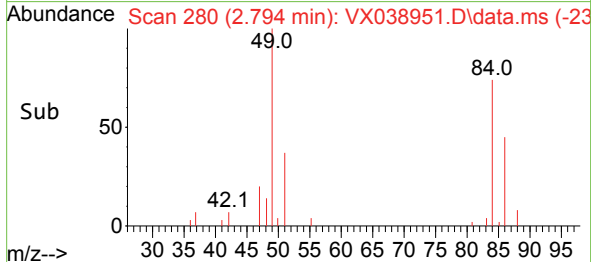
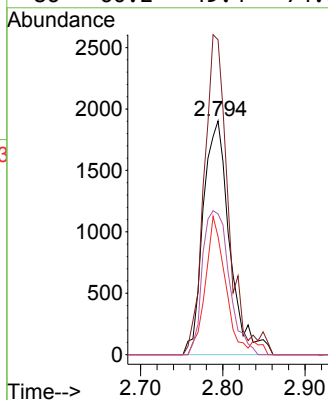
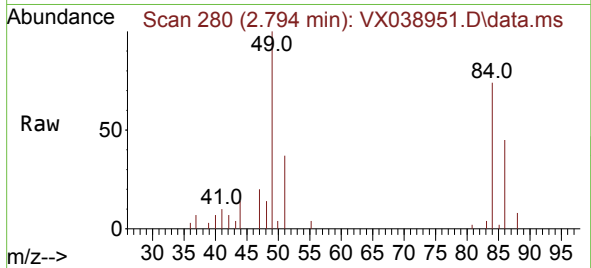




#20
Methylene Chloride
Concen: 2.374 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX038951.D
Acq: 20 Nov 2023 12:24

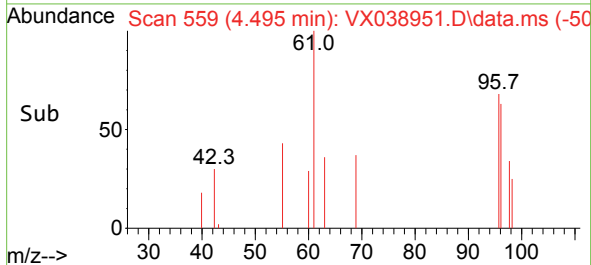
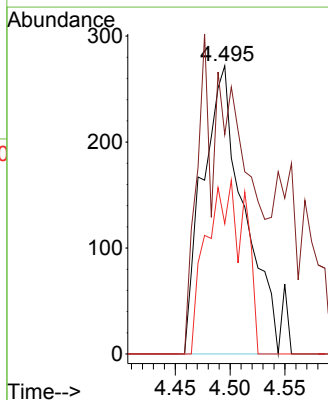
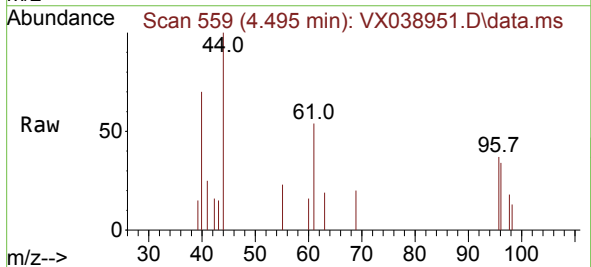
Instrument :
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RE120D2-20231113

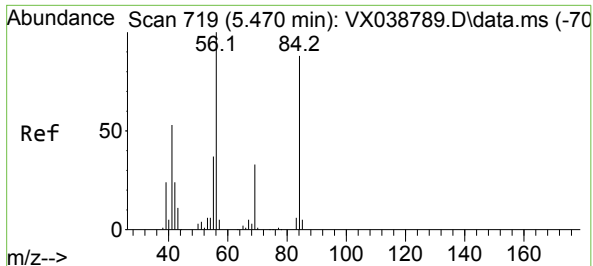
Tgt Ion: 84	Resp:	4264
Ion	Ratio	Lower Upper
84	100	
49	134.7	103.6 155.4
51	50.5	33.8 50.6
86	60.2	49.4 74.0



#27
cis-1,2-Dichloroethene
Concen: 0.380 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.006 min
Lab File: VX038951.D
Acq: 20 Nov 2023 12:24

Tgt Ion: 96	Resp:	707
Ion	Ratio	Lower Upper
96	100	
61	0.0	0.0 312.2
98	56.4	0.0 129.0

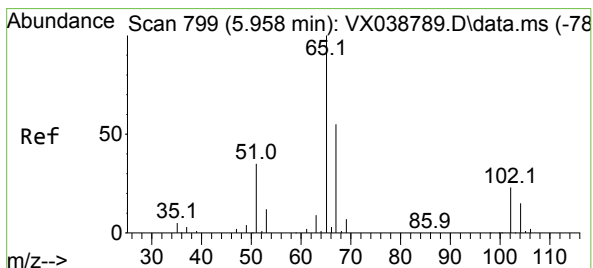
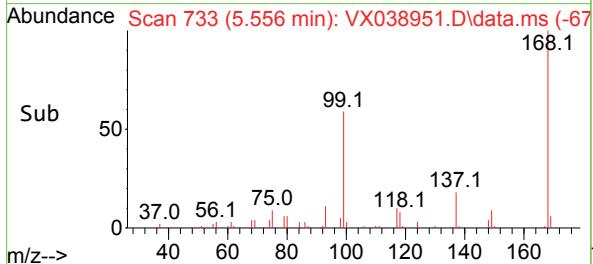
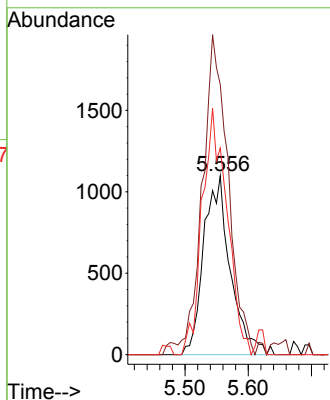
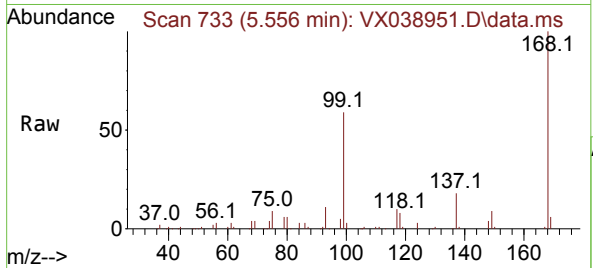




#31
Cyclohexane
Concen: 1.204 ug/l
RT: 5.556 min Scan# 719
Delta R.T. 0.085 min
Lab File: VX038951.D
Acq: 20 Nov 2023 12:24

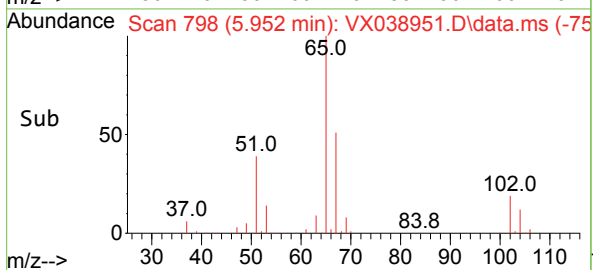
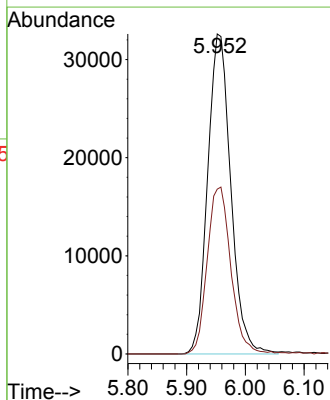
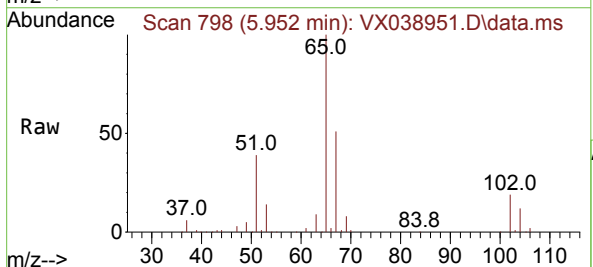
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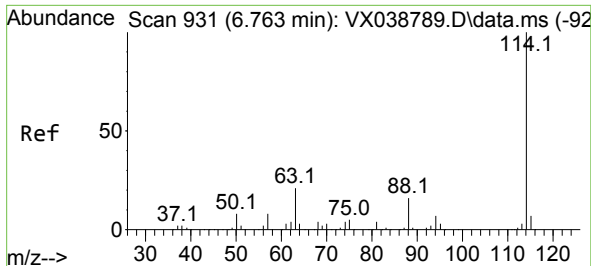
Tgt Ion: 56 Resp: 3218
Ion Ratio Lower Upper
56 100
69 145.6 23.4 35.2#
84 115.6 65.9 98.9#



#33
1,2-Dichloroethane-d4
Concen: 47.591 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.006 min
Lab File: VX038951.D
Acq: 20 Nov 2023 12:24

Tgt Ion: 65 Resp: 89094
Ion Ratio Lower Upper
65 100
67 53.5 0.0 100.2

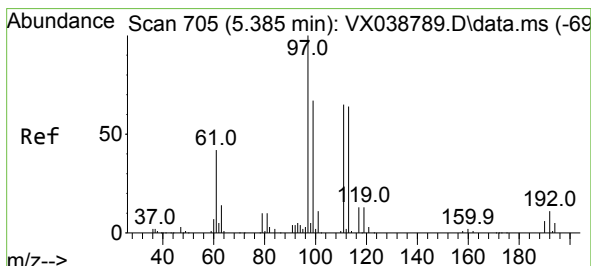
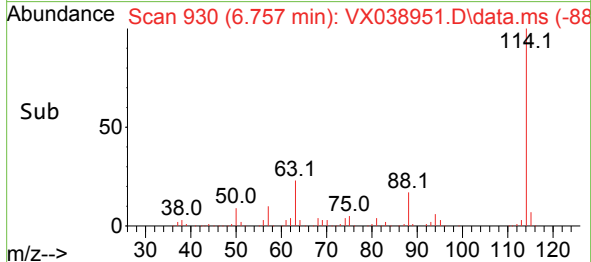
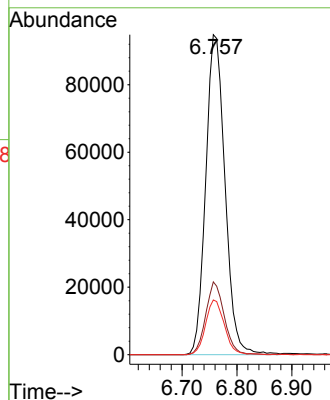
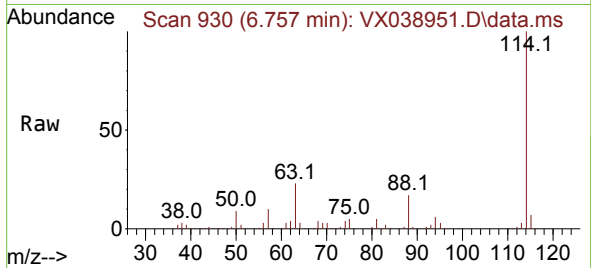




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 911
Delta R.T. -0.006 min
Lab File: VX038951.D
Acq: 20 Nov 2023 12:24

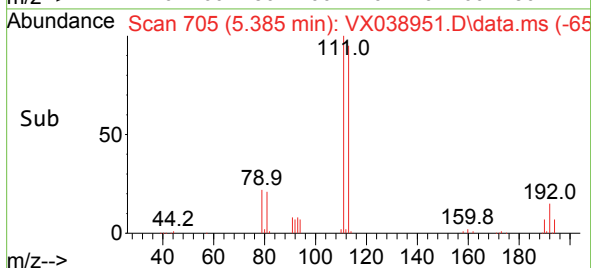
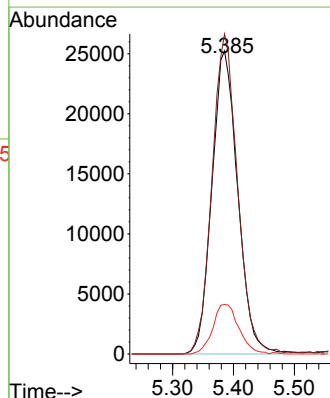
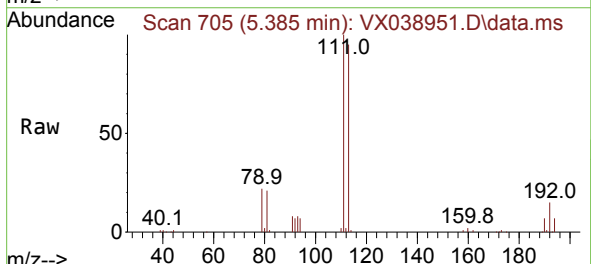
Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20231113

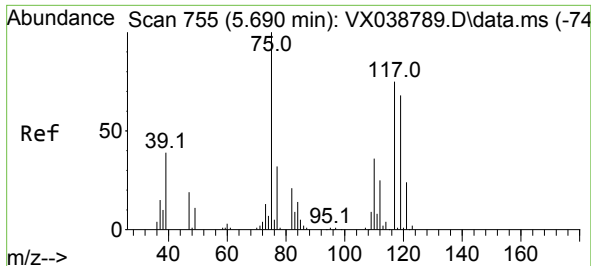
Tgt Ion:114 Resp: 231381
Ion Ratio Lower Upper
114 100
63 22.8 0.0 45.0
88 17.1 0.0 36.6



#35
Dibromofluoromethane
Concen: 44.387 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX038951.D
Acq: 20 Nov 2023 12:24

Tgt Ion:113 Resp: 74175
Ion Ratio Lower Upper
113 100
111 104.4 82.9 124.3
192 16.5 13.3 19.9

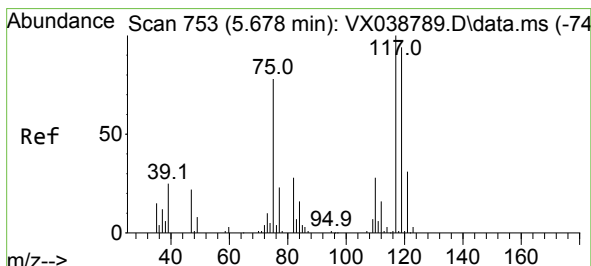
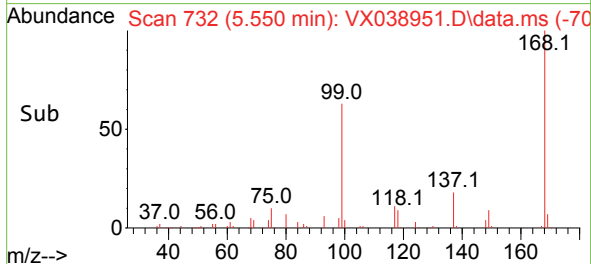
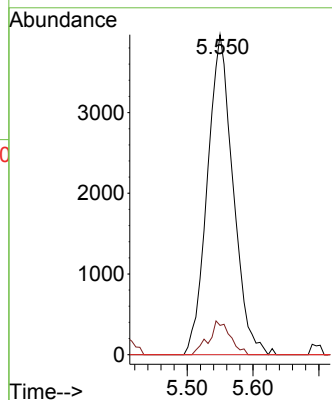
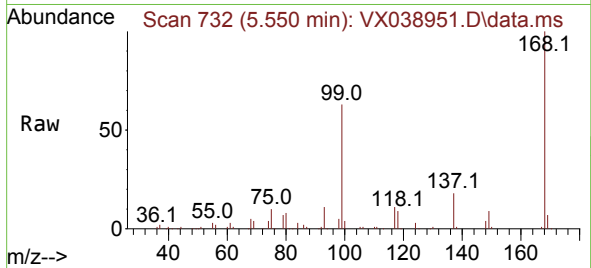




#36
1,1-Dichloropropene
Concen: 4.498 ug/l
RT: 5.550 min Scan# 711
Delta R.T. -0.140 min
Lab File: VX038951.D
Acq: 20 Nov 2023 12:24

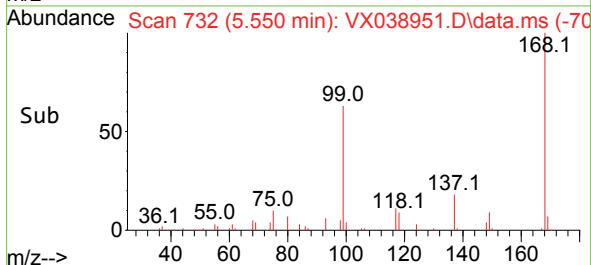
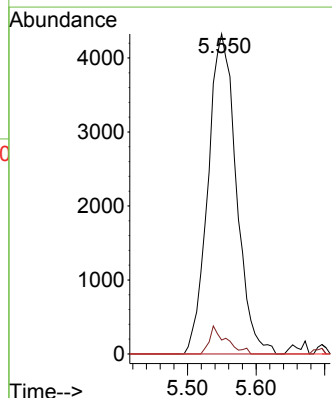
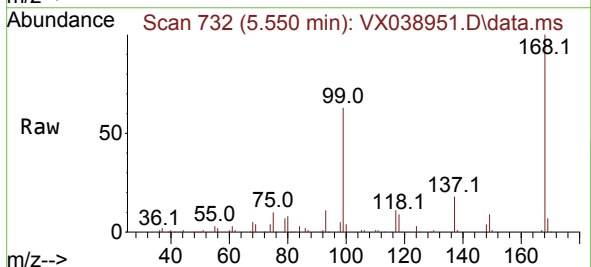
Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20231113

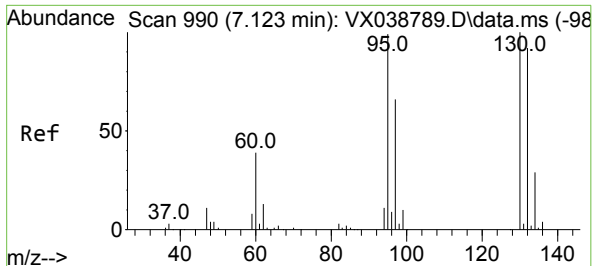
Tgt Ion: 75 Resp: 10772
Ion Ratio Lower Upper
75 100
110 8.7 17.0 50.9#
77 0.0 24.7 37.1#



#38
Carbon Tetrachloride
Concen: 5.609 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.128 min
Lab File: VX038951.D
Acq: 20 Nov 2023 12:24

Tgt Ion: 117 Resp: 12415
Ion Ratio Lower Upper
117 100
119 4.4 78.2 117.2#
121 0.0 24.4 36.6#

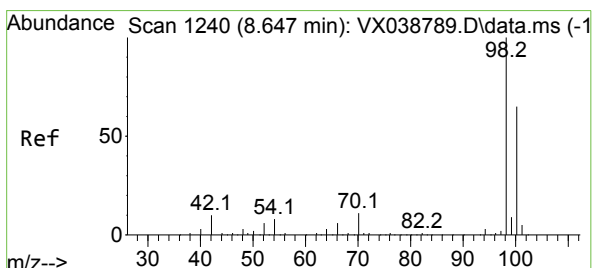
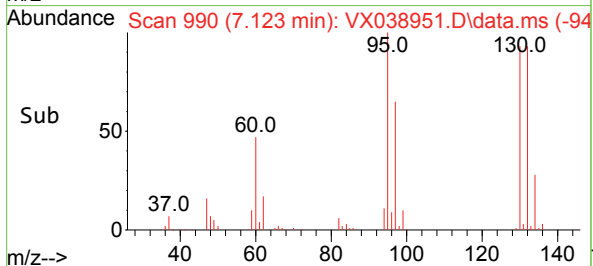
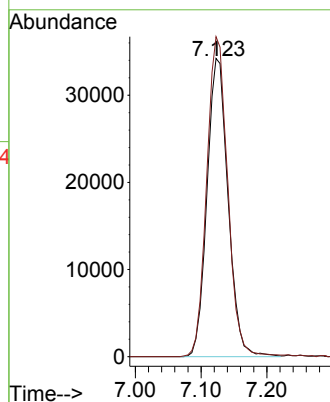
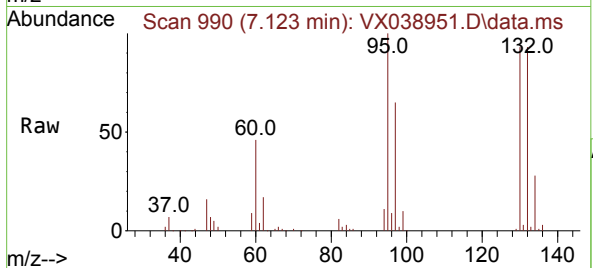




#44
Trichloroethene
Concen: 44.208 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX038951.D
Acq: 20 Nov 2023 12:24

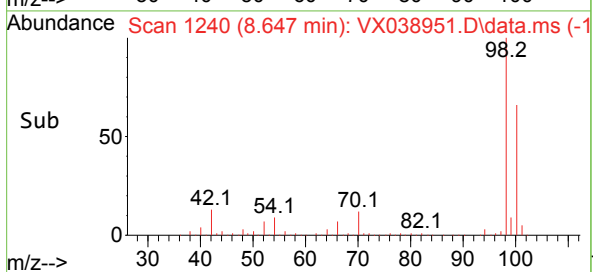
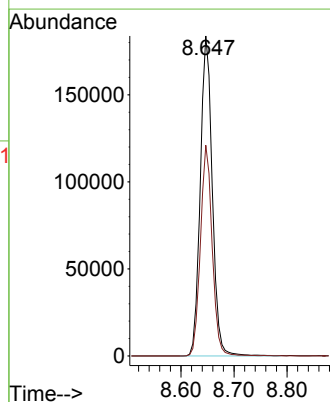
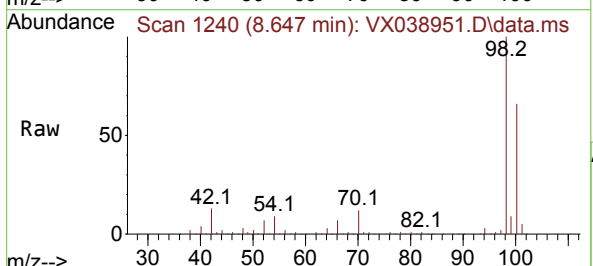
Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20231113

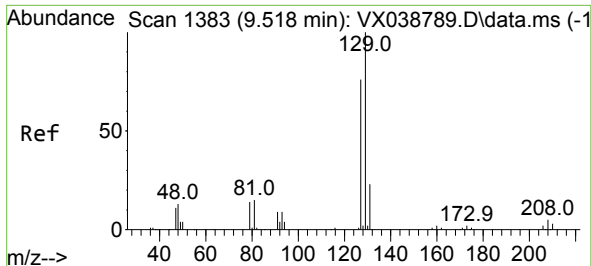
Tgt Ion:130 Resp: 76227
Ion Ratio Lower Upper
130 100
95 107.3 0.0 204.4



#50
Toluene-d8
Concen: 45.228 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX038951.D
Acq: 20 Nov 2023 12:24

Tgt Ion: 98 Resp: 289175
Ion Ratio Lower Upper
98 100
100 64.5 53.1 79.7

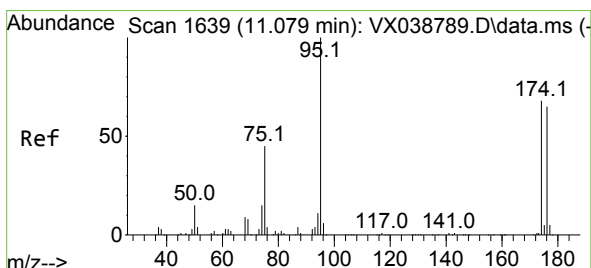
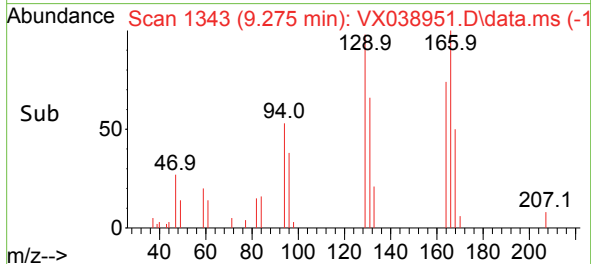
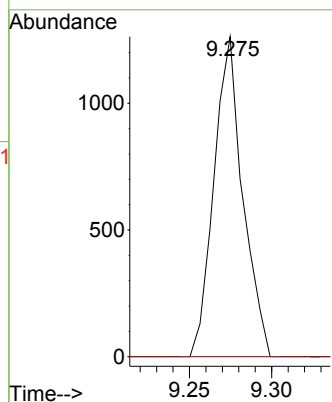
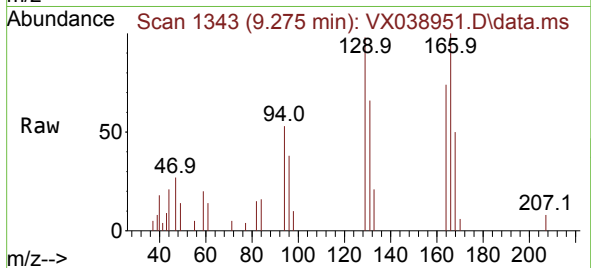




#60
Dibromochloromethane
Concen: 0.825 ug/l
RT: 9.275 min Scan# 11
Delta R.T. -0.244 min
Lab File: VX038951.D
Acq: 20 Nov 2023 12:24

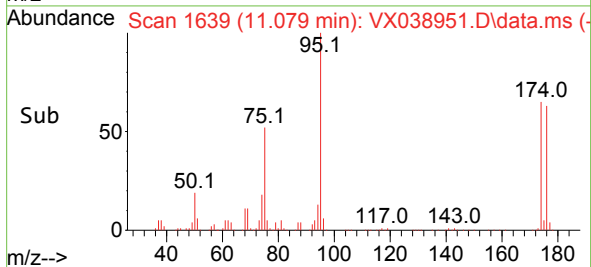
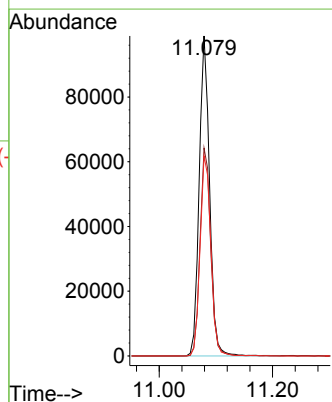
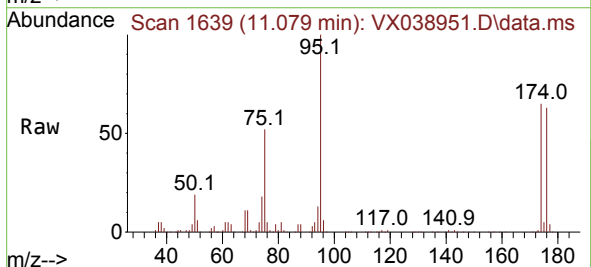
Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20231113

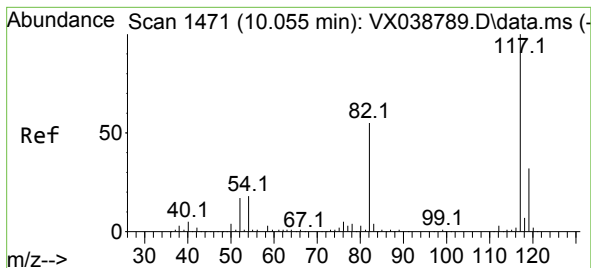
Tgt Ion:129 Resp: 1539
Ion Ratio Lower Upper
129 100
127 0.0 38.8 116.4#



#62
4-Bromofluorobenzene
Concen: 49.108 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX038951.D
Acq: 20 Nov 2023 12:24

Tgt Ion: 95 Resp: 125689
Ion Ratio Lower Upper
95 100
174 66.3 0.0 135.6
176 64.8 0.0 131.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX038951.D

Acq: 20 Nov 2023 12:24

Instrument :

MSVOA_X

ClientSampleId :

RE120D2-20231113

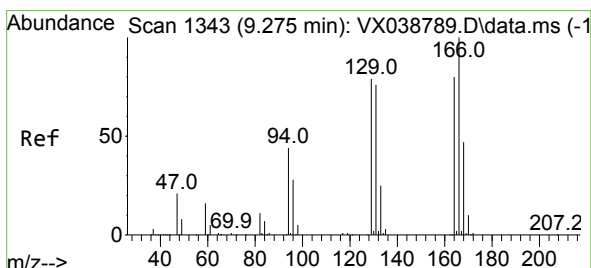
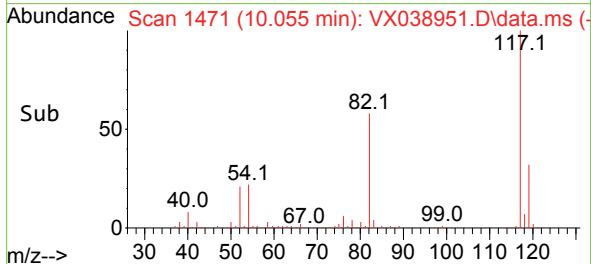
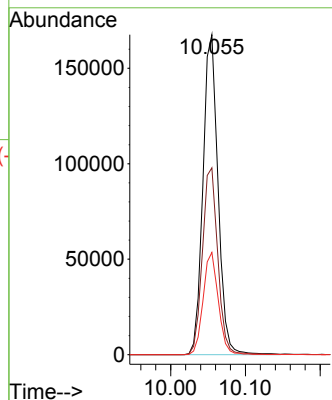
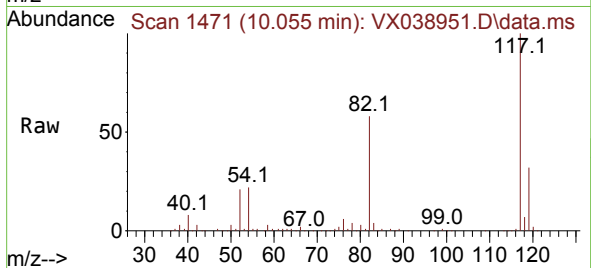
Tgt Ion:117 Resp: 234930

Ion Ratio Lower Upper

117 100

82 58.4 46.2 69.4

119 31.9 25.5 38.3



#64

Tetrachloroethene

Concen: 1.002 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. 0.000 min

Lab File: VX038951.D

Acq: 20 Nov 2023 12:24

Tgt Ion:164 Resp: 1463

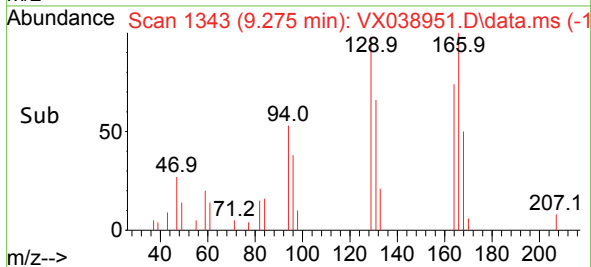
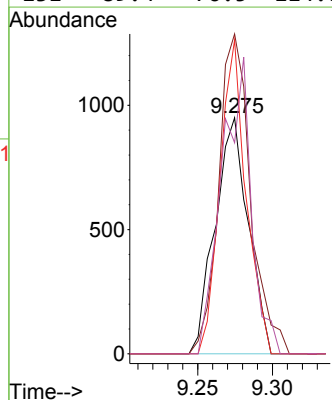
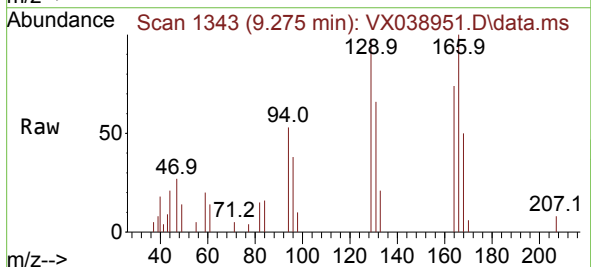
Ion Ratio Lower Upper

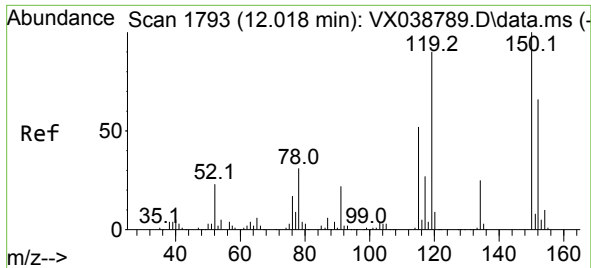
164 100

166 135.5 102.7 154.1

129 132.9 80.4 120.6#

131 89.4 76.5 114.7

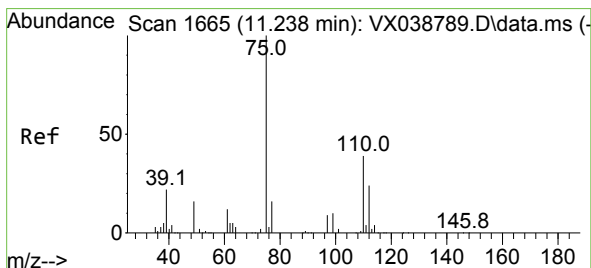
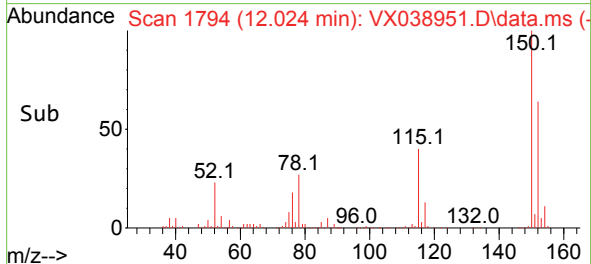
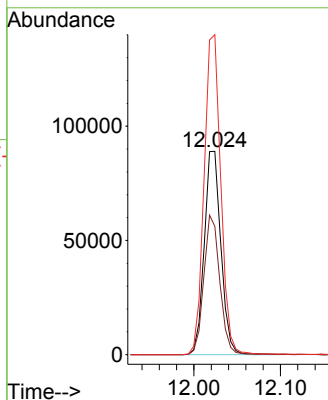
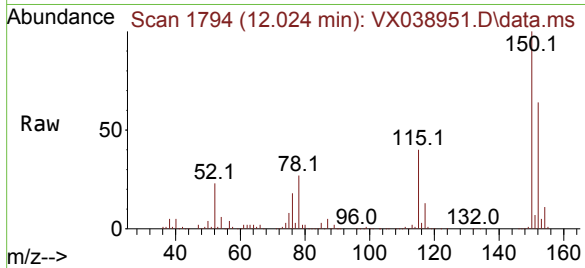




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VX038951.D
 Acq: 20 Nov 2023 12:24

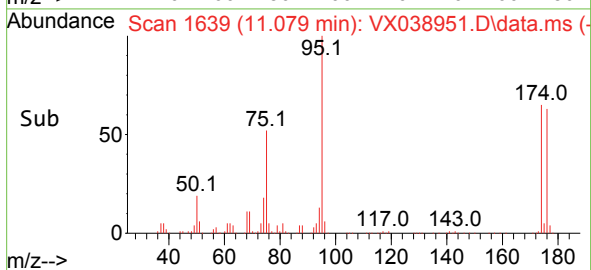
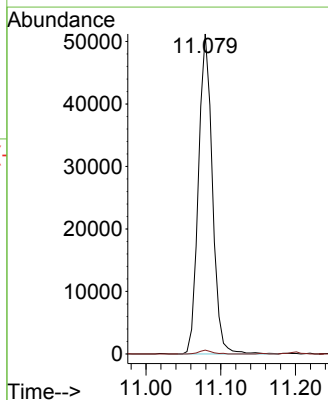
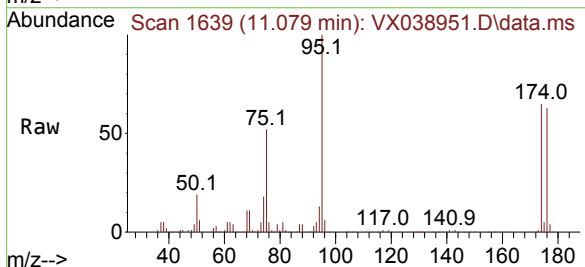
Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D2-20231113

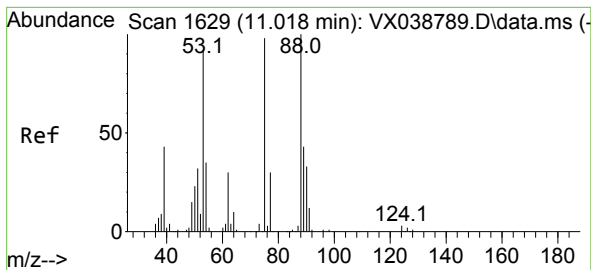
Tgt Ion:152 Resp: 119043
 Ion Ratio Lower Upper
 152 100
 115 65.9 43.3 129.9
 150 157.4 0.0 345.0



#76
 1,2,3-Trichloropropane
 Concen: 22.276 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.159 min
 Lab File: VX038951.D
 Acq: 20 Nov 2023 12:24

Tgt Ion: 75 Resp: 66162
 Ion Ratio Lower Upper
 75 100
 77 1.1 19.1 57.5#

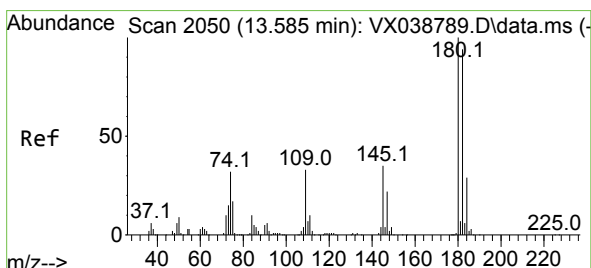
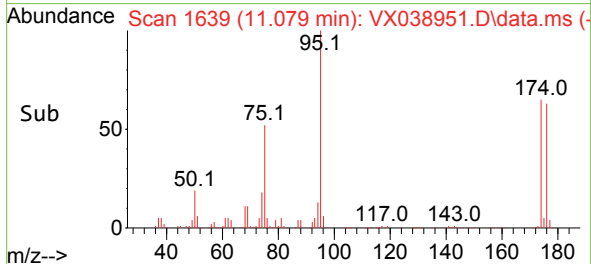
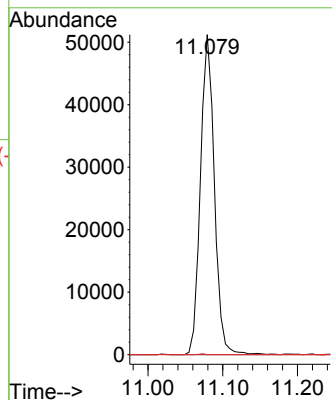
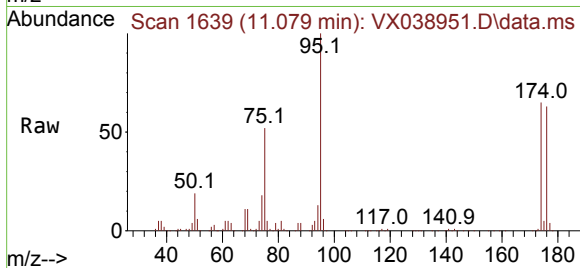




#81
trans-1,4-Dichloro-2-butene
Concen: 49.410 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX038951.D
Acq: 20 Nov 2023 12:24

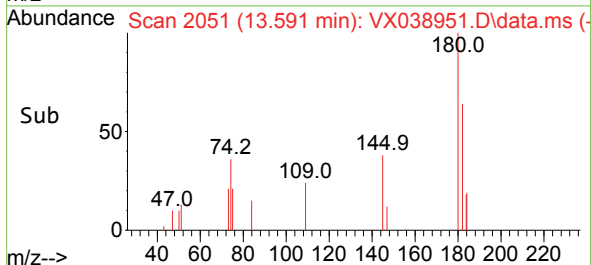
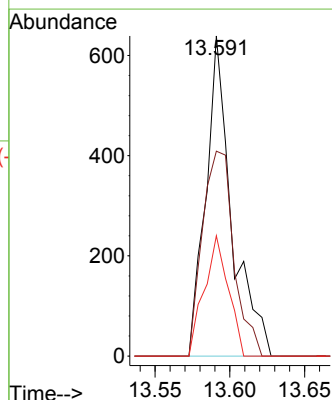
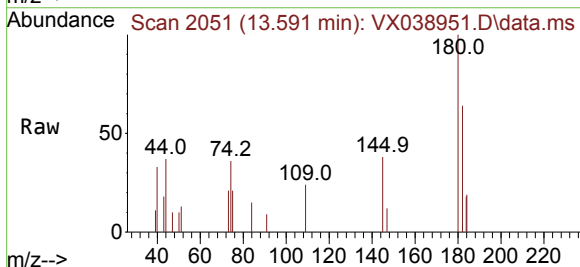
Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20231113

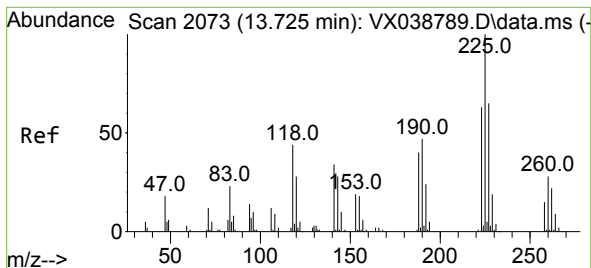
Tgt Ion: 75 Resp: 66162
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.1 36.9 55.3#



#93
1,2,4-Trichlorobenzene
Concen: 0.298 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VX038951.D
Acq: 20 Nov 2023 12:24

Tgt Ion:180 Resp: 772
Ion Ratio Lower Upper
180 100
182 76.9 48.3 144.8
145 34.7 18.0 54.0





#94

Hexachlorobutadiene

Concen: 0.275 ug/l

RT: 13.719 min Scan# 2073

Delta R.T. -0.006 min

Lab File: VX038951.D

Acq: 20 Nov 2023 12:24

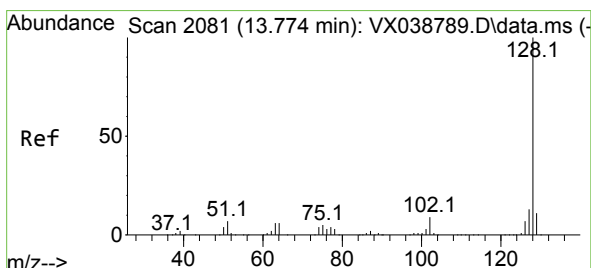
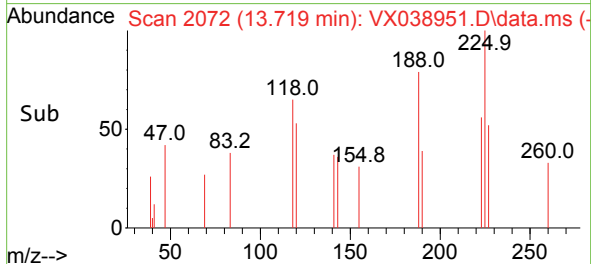
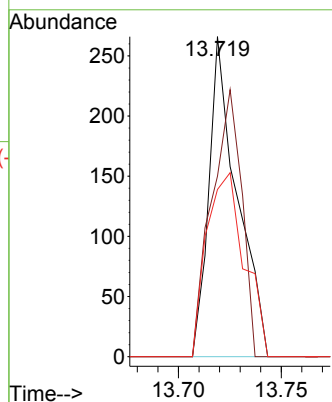
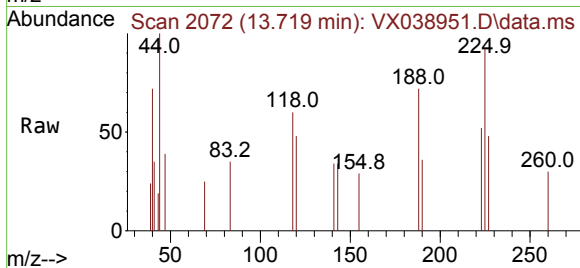
Instrument :

MSVOA_X

ClientSampleId :

RE120D2-20231113

Tgt Ion:225	Resp:	253
Ion Ratio	Lower	Upper
225	100	
223	88.5	31.1 93.2
227	77.1	32.5 97.5



#95

Naphthalene

Concen: 0.229 ug/l

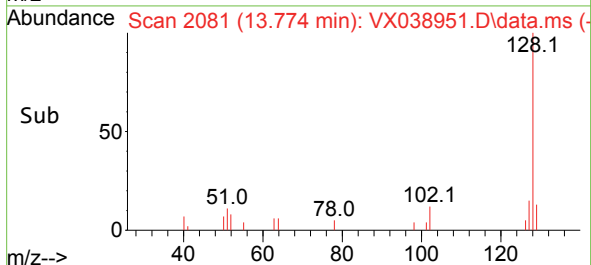
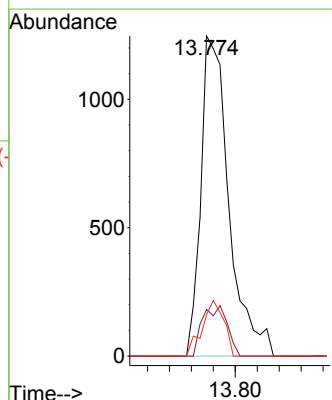
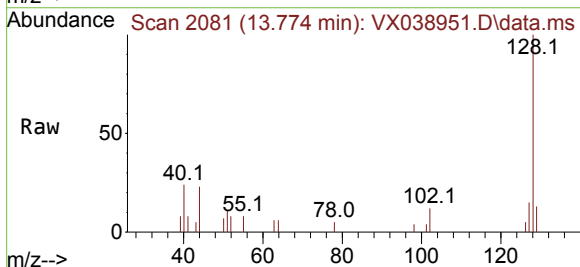
RT: 13.774 min Scan# 2081

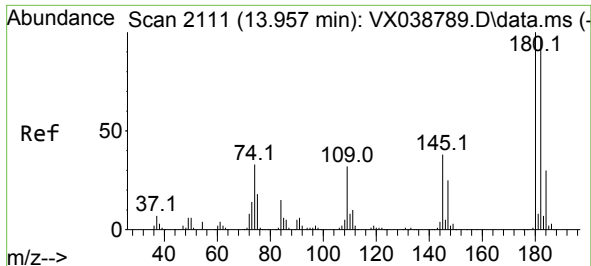
Delta R.T. 0.000 min

Lab File: VX038951.D

Acq: 20 Nov 2023 12:24

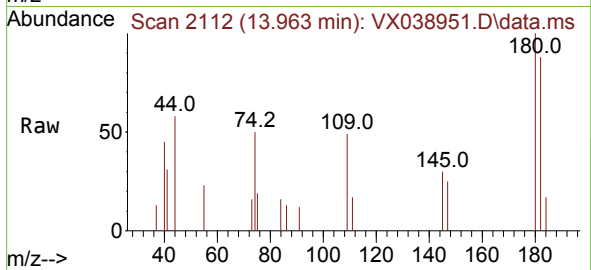
Tgt Ion:128	Resp:	2213
Ion Ratio	Lower	Upper
128	100	
127	14.0	10.3 15.5
129	13.4	8.8 13.2





#96
 1,2,3-Trichlorobenzene
 Concen: 0.240 ug/l
 RT: 13.963 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VX038951.D
 Acq: 20 Nov 2023 12:24

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D2-20231113



Tgt Ion:	180	Resp:	590
Ion	Ratio	Lower	Upper
180	100		
182	84.6	46.9	140.6
145	29.8	17.8	53.5

