

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011923\
 Data File : VN076316.D
 Acq On : 19 Jan 2023 12:31
 Operator : JC\MD
 Sample : 01214-18
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TJRC-011823-GW

Quant Time: Jan 20 00:53:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 03:59:22 2023
 Response via : Initial Calibration

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

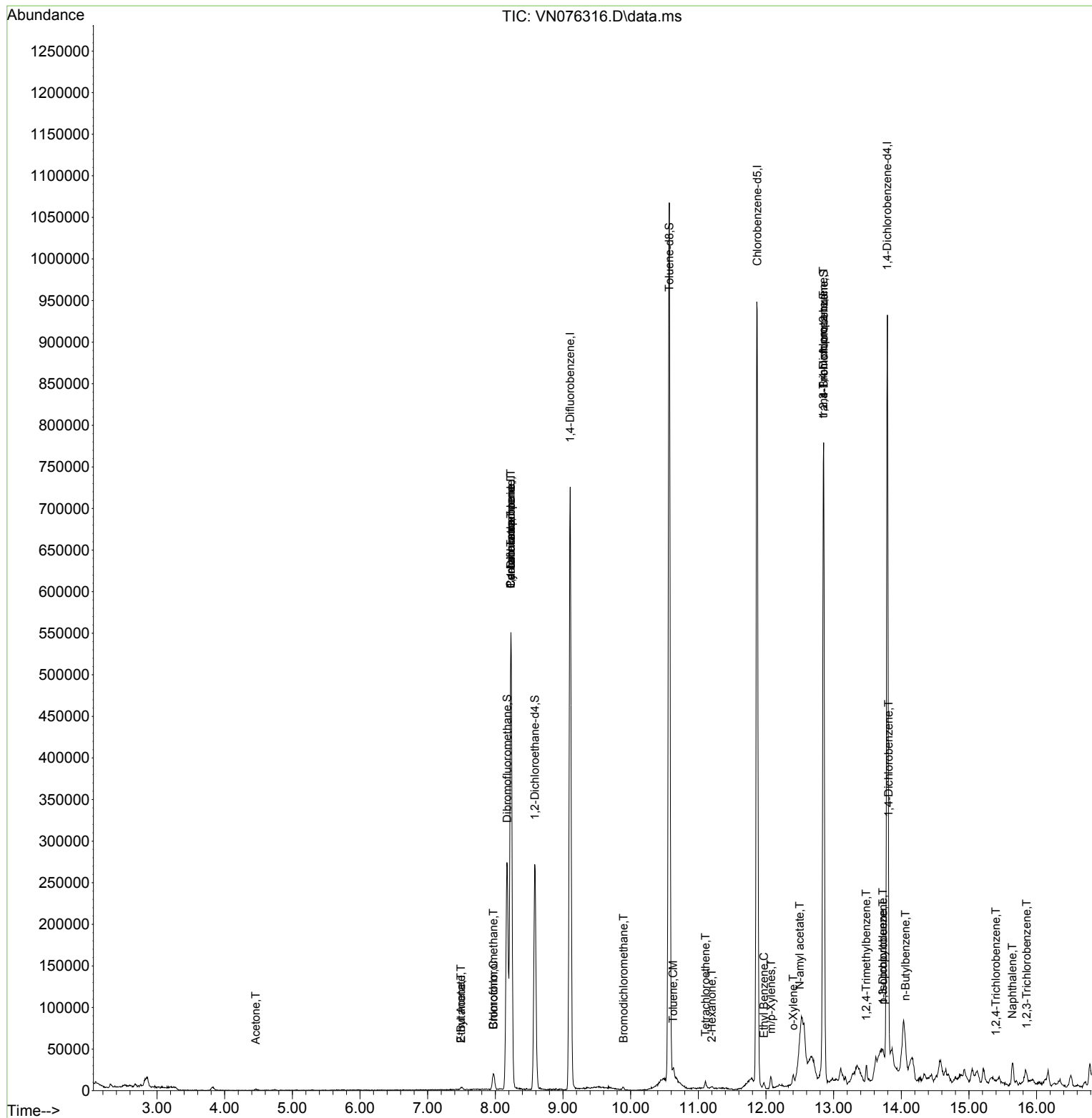
Internal Standards						
1) Pentafluorobenzene	8.230	168	424814	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	660573	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	592392	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	254791	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	219466	46.139	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.280%		
35) Dibromofluoromethane	8.177	113	195675	47.354	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.700%		
50) Toluene-d8	10.571	98	764572	50.101	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.200%		
62) 4-Bromofluorobenzene	12.853	95	256630	51.513	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	103.020%		
Target Compounds						
					Qvalue	
16) Acetone	4.459	43	2220	1.383	ug/l #	88
20) Methylene Chloride	5.277	84	391	Below Cal	#	38
25) 2-Butanone	7.494	43	4791	2.057	ug/l	93
28) Bromochloromethane	7.971	49	1404	0.465	ug/l #	5
30) Chloroform	7.971	83	18626	2.258	ug/l	93
31) Cyclohexane	8.230	56	8754	1.198	ug/l #	48
36) 1,1-Dichloropropene	8.230	75	31318	5.334	ug/l #	49
37) Ethyl Acetate	7.494	43	4791	1.053	ug/l #	69
38) Carbon Tetrachloride	8.230	117	41456	6.331	ug/l #	17
47) Bromodichloromethane	9.894	83	2309	0.375	ug/l #	91
52) Toluene	10.629	92	4417	0.376	ug/l	80
59) 2-Hexanone	11.200	43	1131	0.347	ug/l #	53
64) Tetrachloroethene	11.106	164	1865	0.349	ug/l #	82
67) Ethyl Benzene	11.971	91	4875	0.227	ug/l	93
68) m/p-Xylenes	12.076	106	5178	0.603	ug/l	90
69) o-Xylene	12.406	106	3126	0.370	ug/l	91
74) N-amyl acetate	12.500	43	1770	0.312	ug/l #	75
76) 1,2,3-Trichloropropane	12.847	75	132352	28.099	ug/l #	1
77) Bromobenzene	12.982	156	302	Below Cal	#	27
81) trans-1,4-Dichloro-2-b...	12.847	75	132352	86.428	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.482	105	12207	0.737	ug/l	97
86) p-Isopropyltoluene	13.729	119	3468	0.207	ug/l #	76
87) 1,3-Dichlorobenzene	13.729	146	2784	0.300	ug/l #	50
88) 1,4-Dichlorobenzene	13.812	146	2292	0.360	ug/l #	1
89) n-Butylbenzene	14.065	91	3415	0.257	ug/l #	33
93) 1,2,4-Trichlorobenzene	15.400	180	1160	1.558	ug/l	88
95) Naphthalene	15.641	128	27445	3.836	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.853	180	1082	1.402	ug/l #	70

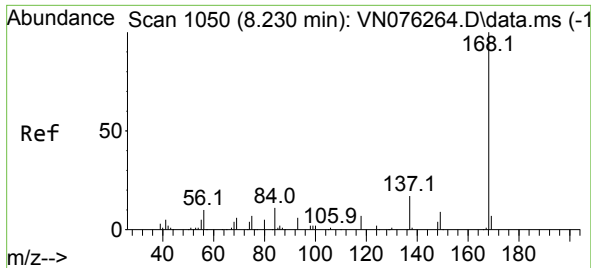
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011923\
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 17 03:59:22 2023
Response via : Initial Calibration

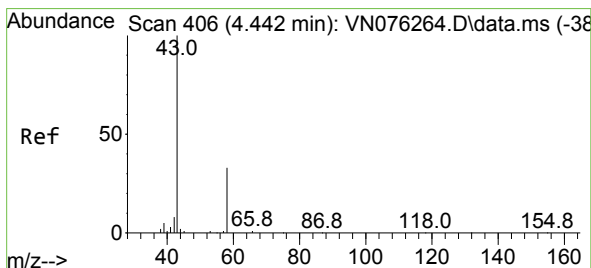
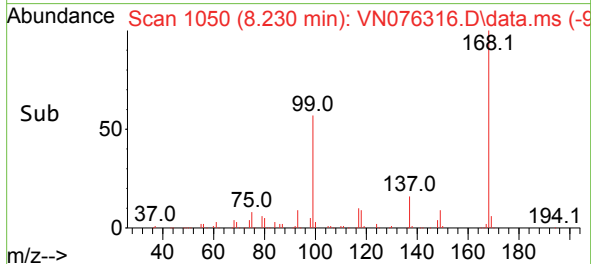
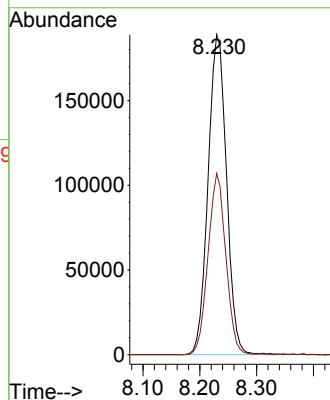
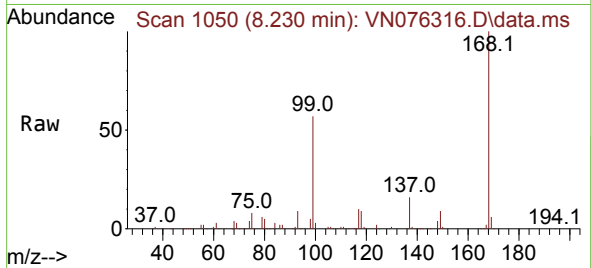




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

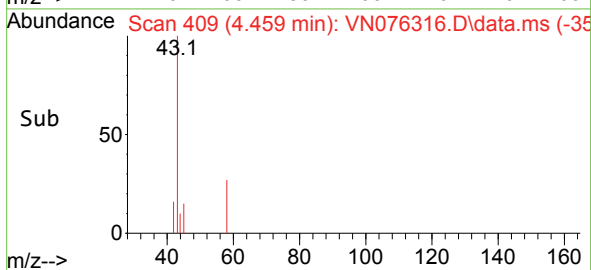
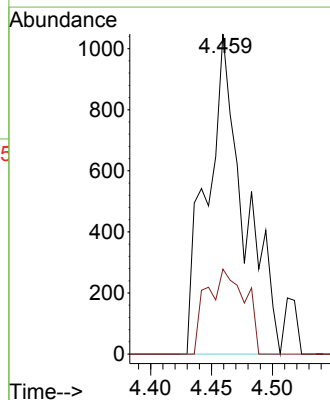
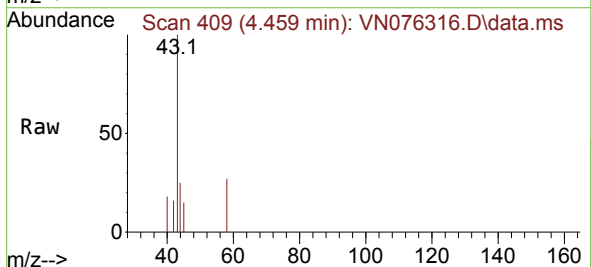
Instrument :
MSVOA_N
ClientSampleId :
TJRC-011823-GW

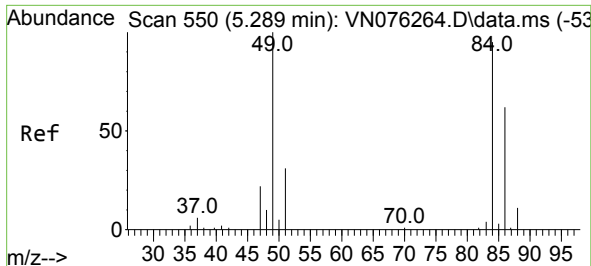
Tgt Ion:168 Resp: 424814
Ion Ratio Lower Upper
168 100
99 56.6 41.6 62.4



#16
Acetone
Concen: 1.383 ug/l
RT: 4.459 min Scan# 409
Delta R.T. 0.017 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

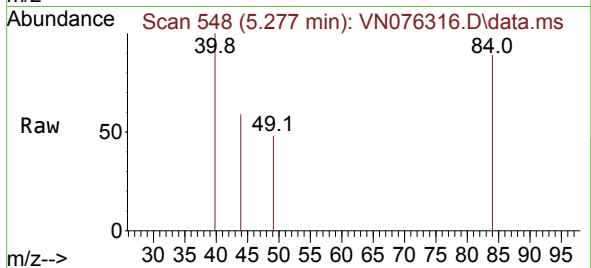
Tgt Ion: 43 Resp: 2220
Ion Ratio Lower Upper
43 100
58 26.5 26.7 40.1#



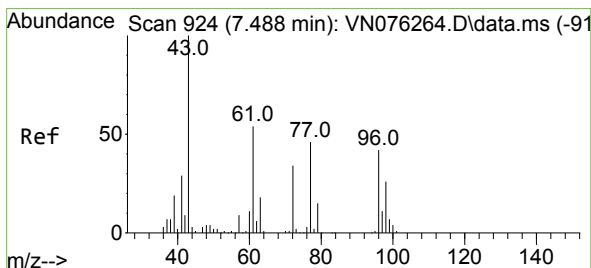
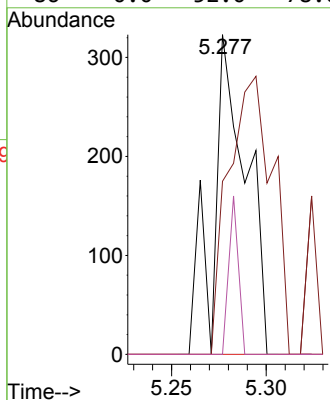
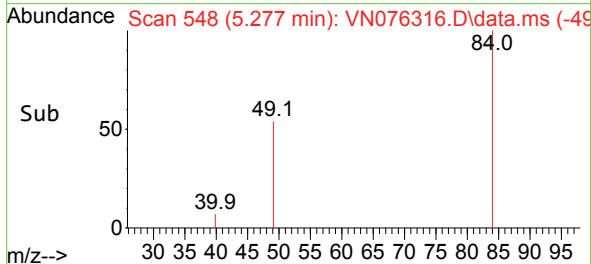


#20
Methylene Chloride
Concen: Below Cal
RT: 5.277 min Scan# 54
Delta R.T. -0.012 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

Instrument :
MSVOA_N
ClientSampleId :
TJRC-011823-GW

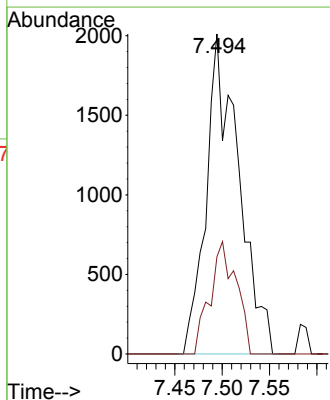
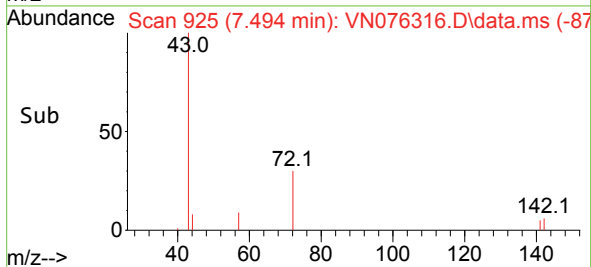
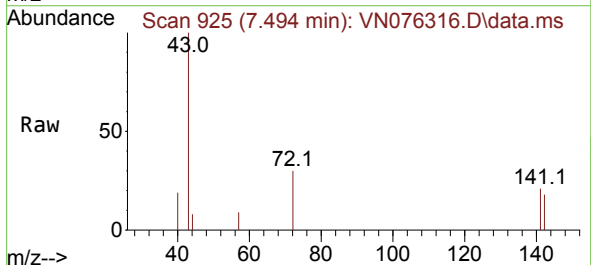


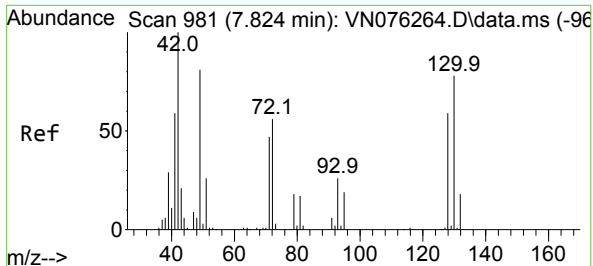
Tgt Ion: 84	Resp: 391
Ion Ratio	Lower Upper
84	100
49	54.2 84.5 126.7#
51	0.0 26.0 39.0#
86	0.0 52.0 78.0#



#25
2-Butanone
Concen: 2.057 ug/l
RT: 7.494 min Scan# 925
Delta R.T. 0.006 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

Tgt Ion: 43	Resp: 4791
Ion Ratio	Lower Upper
43	100
72	30.4 27.4 41.2

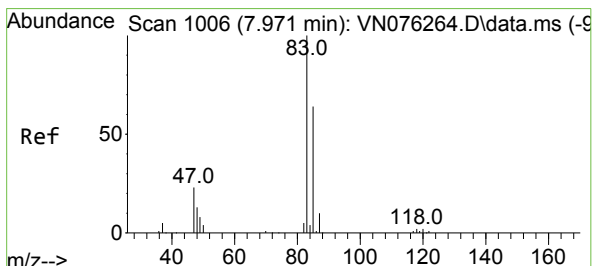
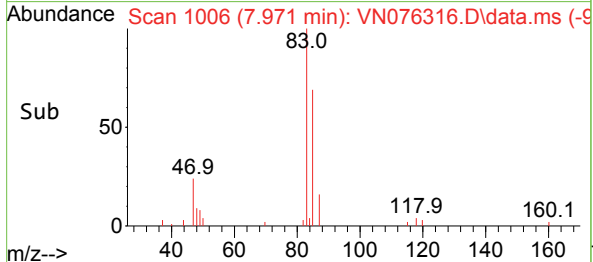
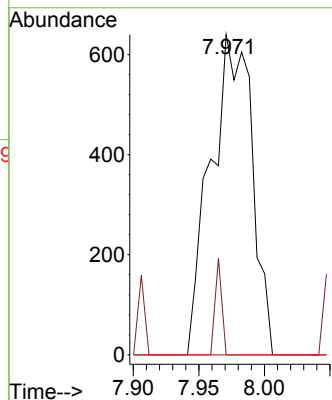
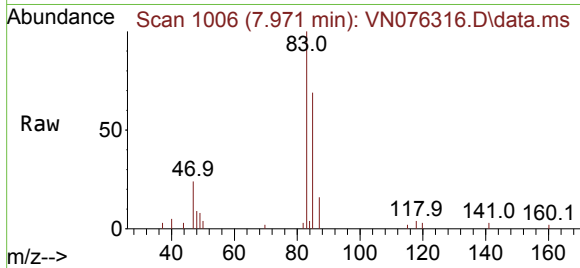




#28
Bromochloromethane
Concen: 0.465 ug/l
RT: 7.971 min Scan# 1006
Delta R.T. 0.147 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

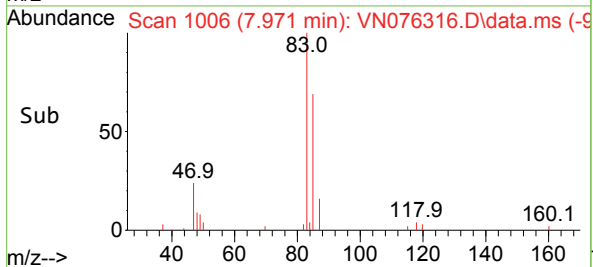
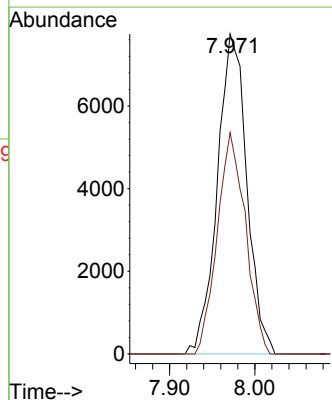
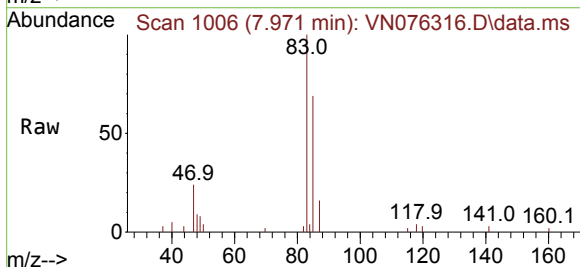
Instrument :
MSVOA_N
ClientSampleId :
TJRC-011823-GW

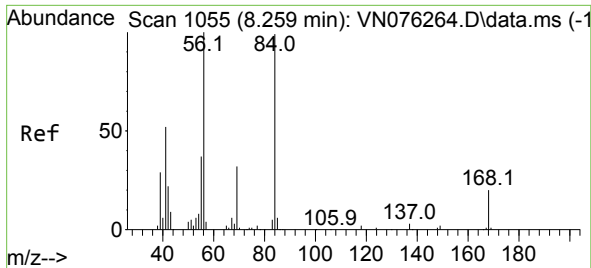
Tgt Ion: 49 Resp: 1404
Ion Ratio Lower Upper
49 100
129 4.8 0.0 5.2
130 0.0 76.0 114.0#



#30
Chloroform
Concen: 2.258 ug/l
RT: 7.971 min Scan# 1006
Delta R.T. -0.000 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

Tgt Ion: 83 Resp: 18626
Ion Ratio Lower Upper
83 100
85 69.2 51.0 76.6

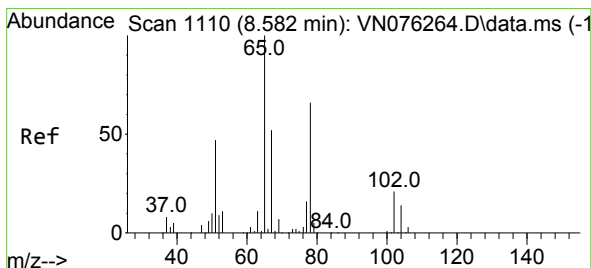
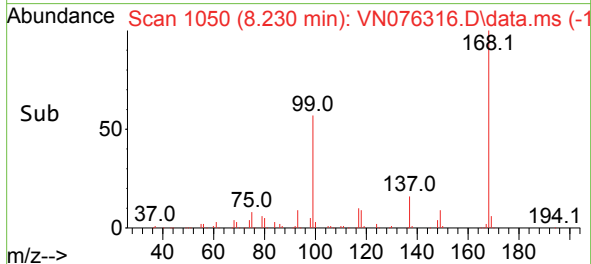
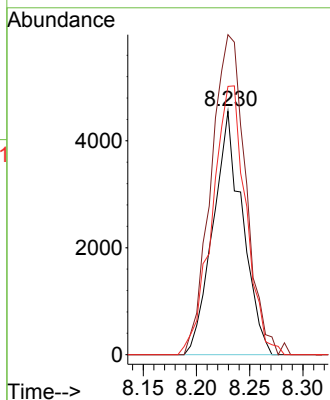
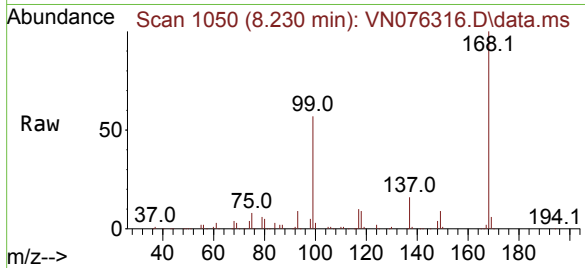




#31
Cyclohexane
Concen: 1.198 ug/l
RT: 8.230 min Scan# 1105
Delta R.T. -0.029 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

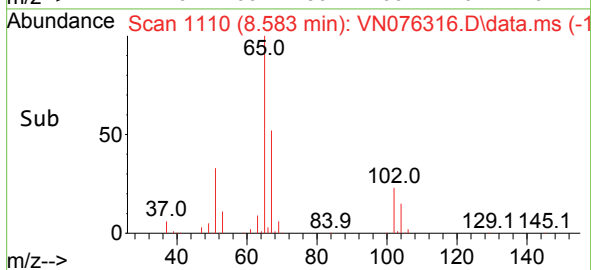
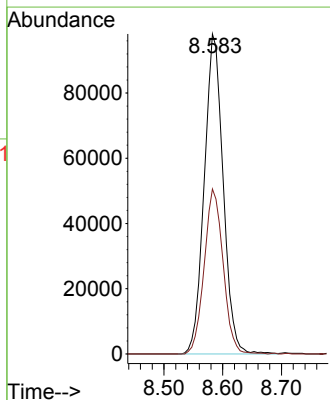
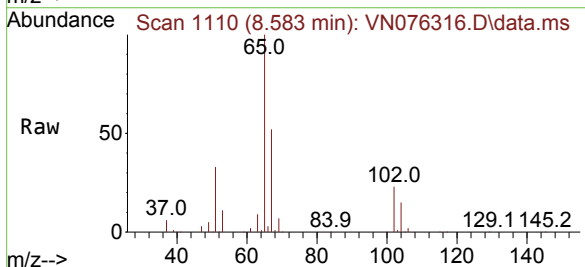
Instrument :
MSVOA_N
ClientSampleId :
TJRC-011823-GW

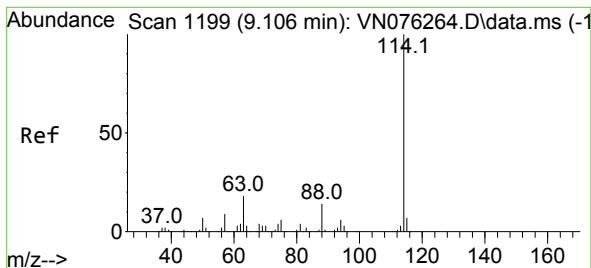
Tgt Ion: 56 Resp: 8754
Ion Ratio Lower Upper
56 100
69 131.5 25.8 38.8#
84 110.2 79.0 118.4



#33
1,2-Dichloroethane-d4
Concen: 46.139 ug/l
RT: 8.583 min Scan# 1110
Delta R.T. 0.001 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

Tgt Ion: 65 Resp: 219466
Ion Ratio Lower Upper
65 100
67 51.5 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN076316.D

Acq: 19 Jan 2023 12:31

Instrument :

MSVOA_N

ClientSampleId :

TJRC-011823-GW

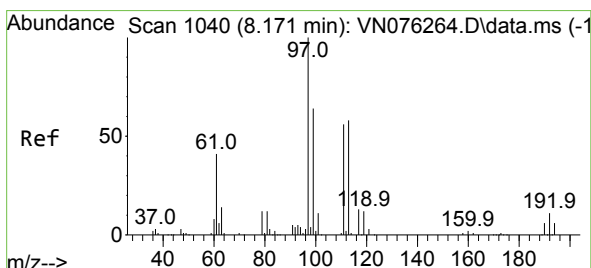
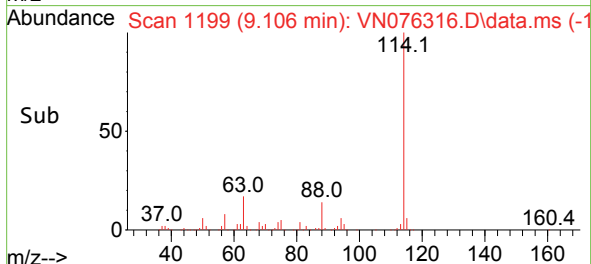
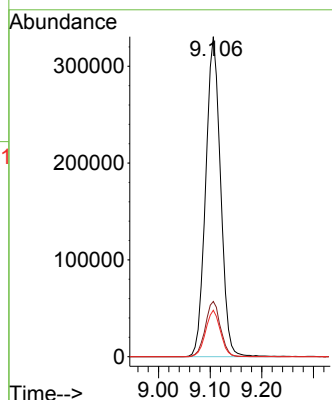
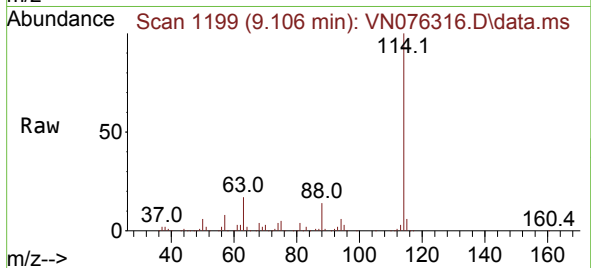
Tgt Ion:114 Resp: 660573

Ion Ratio Lower Upper

114 100

63 17.3 0.0 35.8

88 14.5 0.0 28.0



#35

Dibromofluoromethane

Concen: 47.354 ug/l

RT: 8.177 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VN076316.D

Acq: 19 Jan 2023 12:31

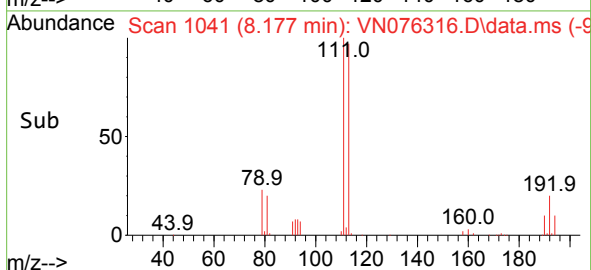
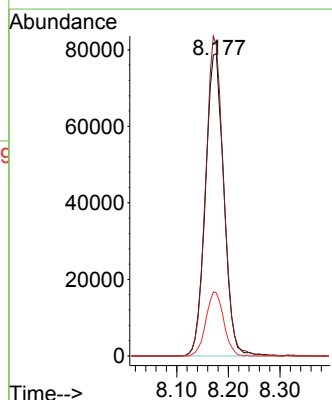
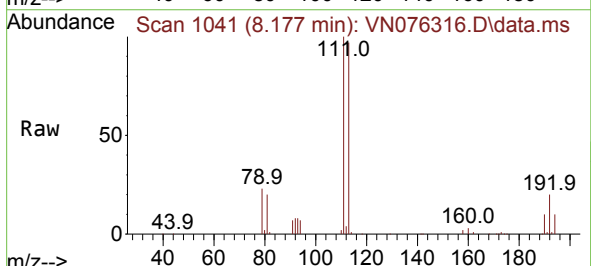
Tgt Ion:113 Resp: 195675

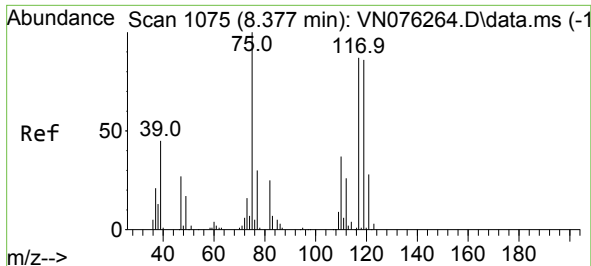
Ion Ratio Lower Upper

113 100

111 103.2 82.7 124.1

192 20.5 15.6 23.4





#36

1,1-Dichloropropene

Concen: 5.334 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN076316.D

Acq: 19 Jan 2023 12:31

Instrument :

MSVOA_N

ClientSampleId :

TJRC-011823-GW

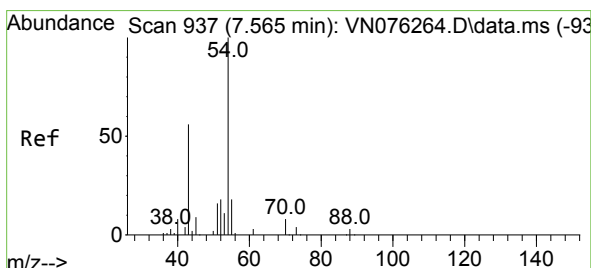
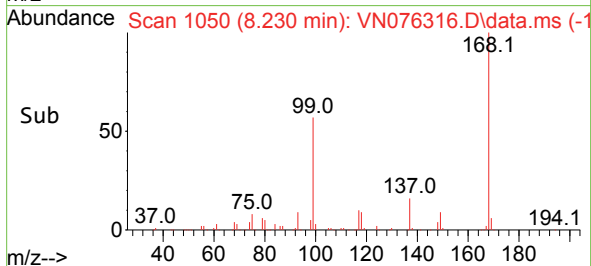
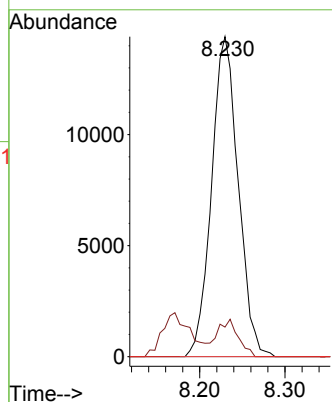
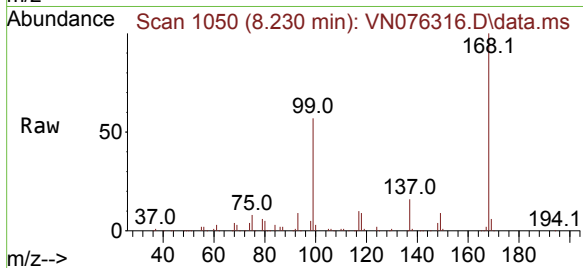
Tgt Ion: 75 Resp: 31318

Ion Ratio Lower Upper

75 100

110 9.6 18.8 56.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.053 ug/l

RT: 7.494 min Scan# 925

Delta R.T. -0.071 min

Lab File: VN076316.D

Acq: 19 Jan 2023 12:31

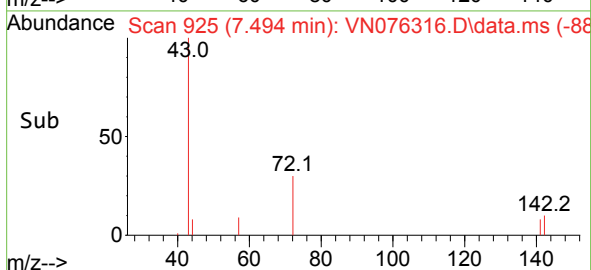
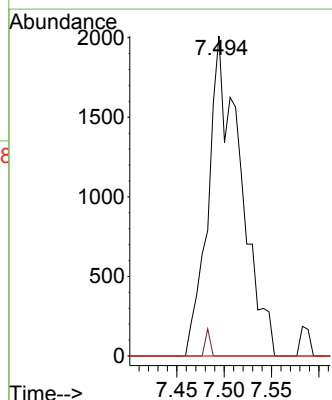
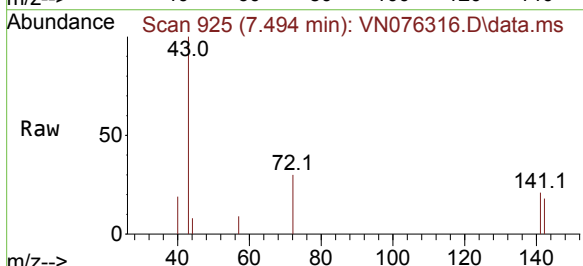
Tgt Ion: 43 Resp: 4791

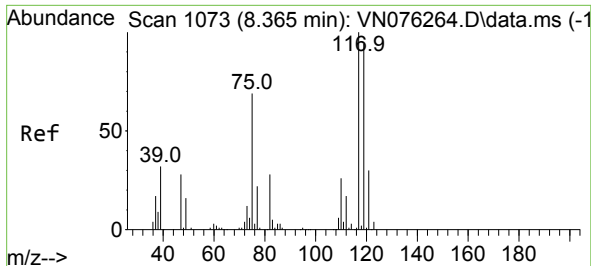
Ion Ratio Lower Upper

43 100

61 1.3 11.1 16.7#

70 0.0 10.0 15.0#

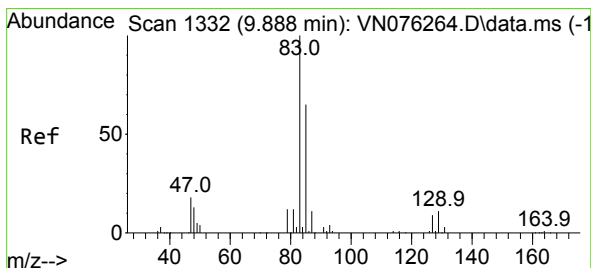
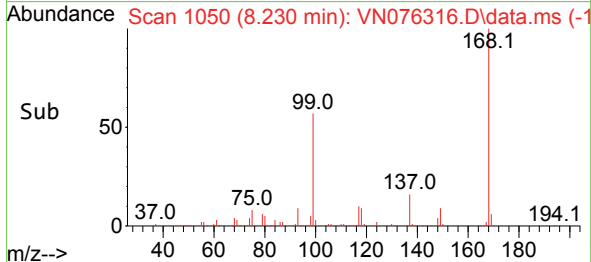
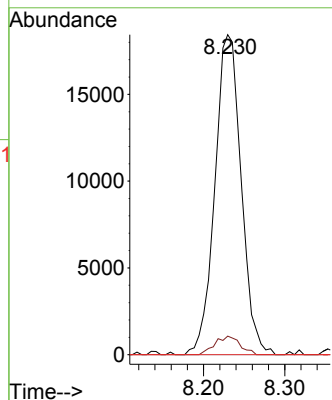
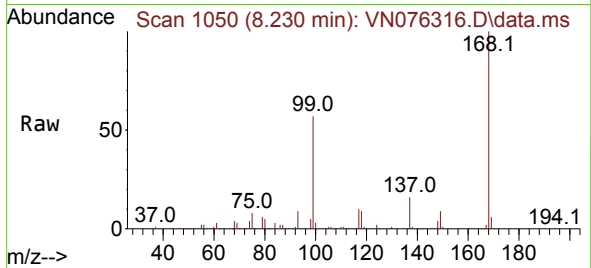




#38
Carbon Tetrachloride
Concen: 6.331 ug/l
RT: 8.230 min Scan# 1073
Delta R.T. -0.135 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

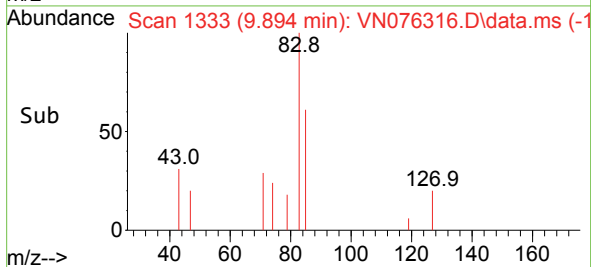
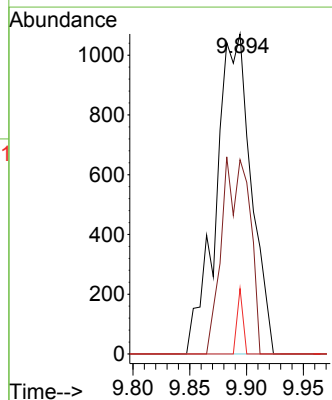
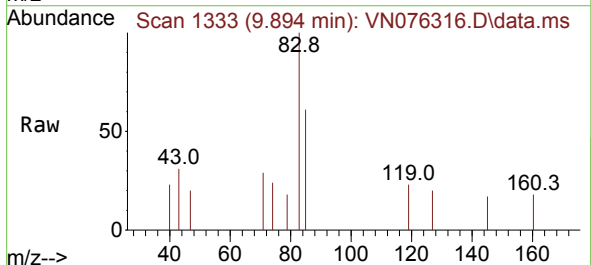
Instrument :
MSVOA_N
ClientSampleId :
TJRC-011823-GW

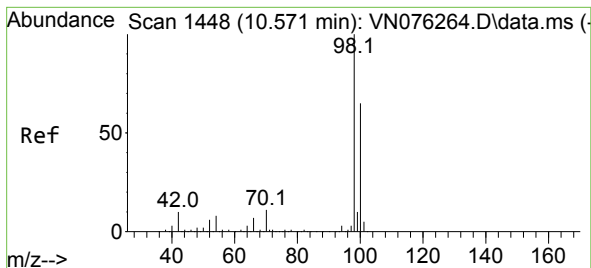
Tgt Ion:117 Resp: 41456
Ion Ratio Lower Upper
117 100
119 5.8 75.4 113.0#
121 0.0 24.2 36.2#



#47
Bromodichloromethane
Concen: 0.375 ug/l
RT: 9.894 min Scan# 1333
Delta R.T. 0.006 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

Tgt Ion: 83 Resp: 2309
Ion Ratio Lower Upper
83 100
85 60.7 52.1 78.1
127 20.4 7.4 11.0#

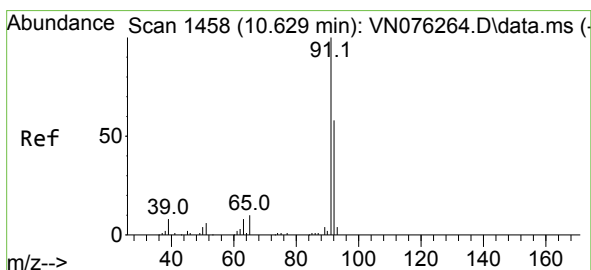
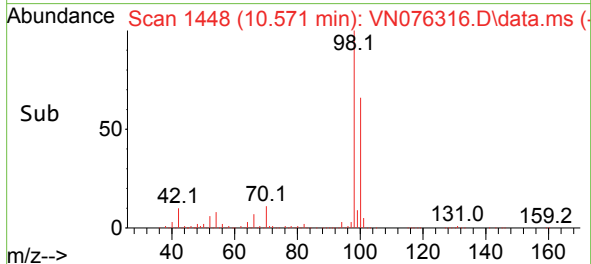
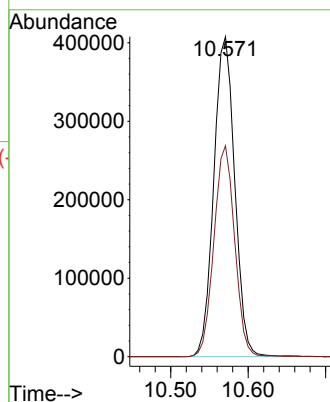
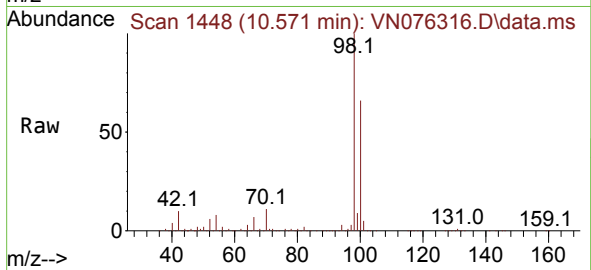




#50
Toluene-d8
Concen: 50.101 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

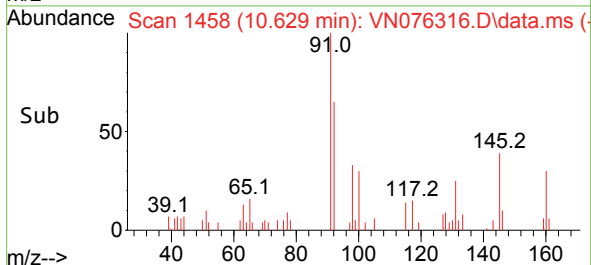
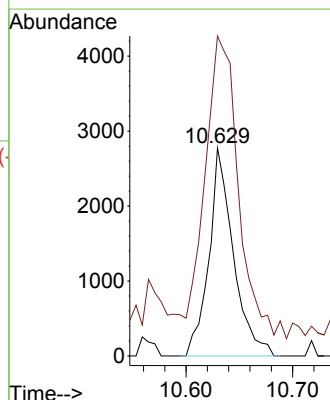
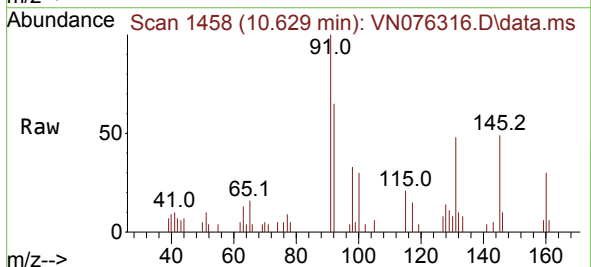
Instrument :
MSVOA_N
ClientSampleId :
TJRC-011823-GW

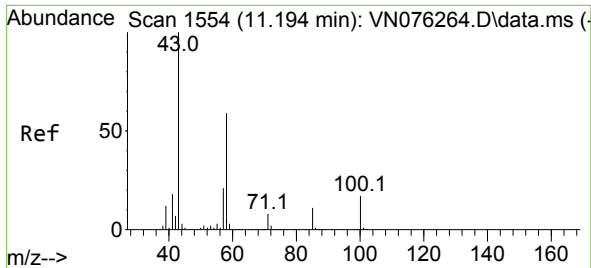
Tgt Ion: 98 Resp: 764572
Ion Ratio Lower Upper
98 100
100 65.5 52.2 78.4



#52
Toluene
Concen: 0.376 ug/l
RT: 10.629 min Scan# 1458
Delta R.T. 0.000 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

Tgt Ion: 92 Resp: 4417
Ion Ratio Lower Upper
92 100
91 197.6 136.6 205.0

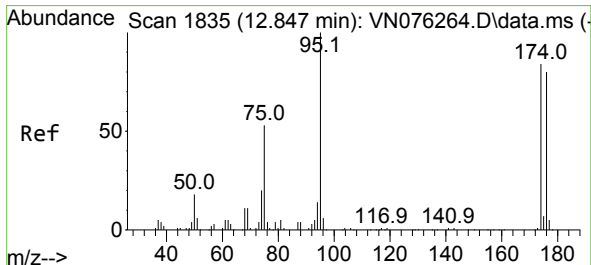
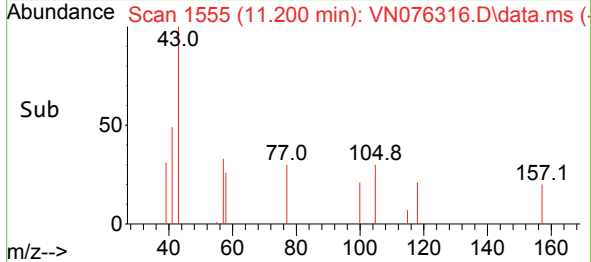
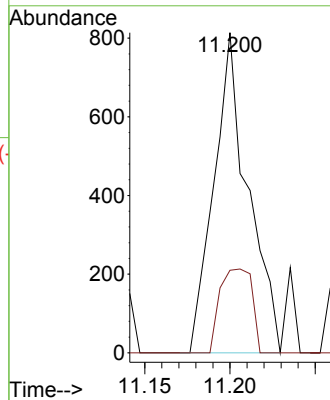
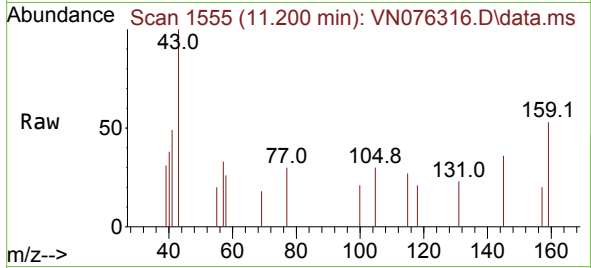




#59
2-Hexanone
Concen: 0.347 ug/l
RT: 11.200 min Scan# 1555
Delta R.T. 0.006 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

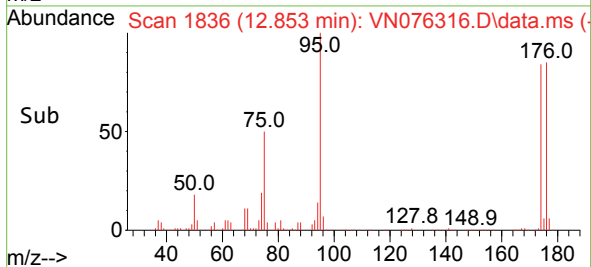
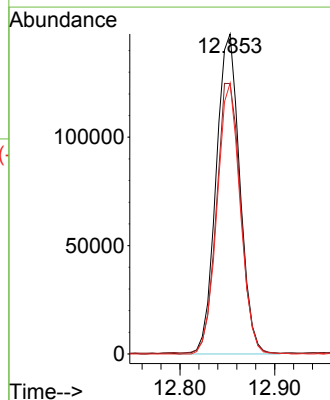
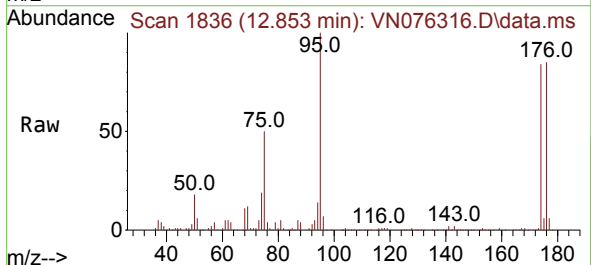
Instrument :
MSVOA_N
ClientSampleId :
TJRC-011823-GW

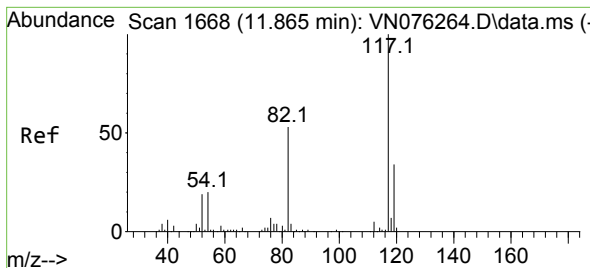
Tgt Ion: 43 Resp: 1131
Ion Ratio Lower Upper
43 100
58 24.7 30.1 90.3#



#62
4-Bromofluorobenzene
Concen: 51.513 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

Tgt Ion: 95 Resp: 256630
Ion Ratio Lower Upper
95 100
174 85.9 0.0 174.6
176 82.7 0.0 167.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN076316.D

Acq: 19 Jan 2023 12:31

Instrument :

MSVOA_N

ClientSampleId :

TJRC-011823-GW

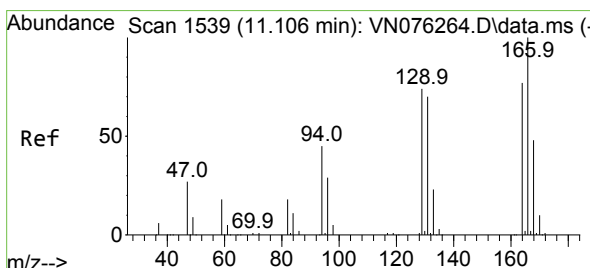
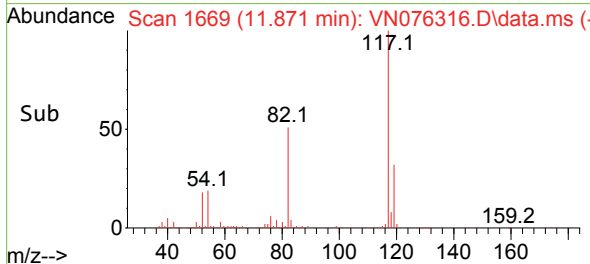
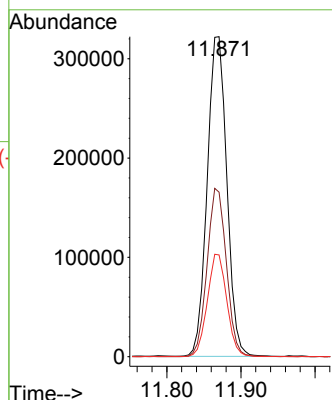
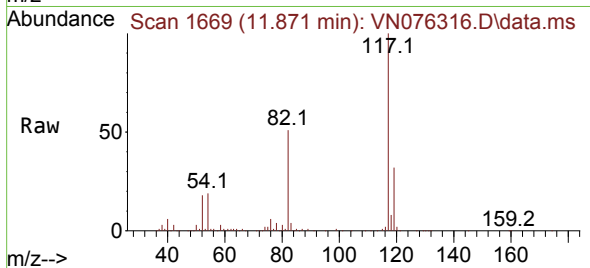
Tgt Ion:117 Resp: 592392

Ion Ratio Lower Upper

117 100

82 51.5 42.2 63.2

119 31.8 26.9 40.3



#64

Tetrachloroethene

Concen: 0.349 ug/l

RT: 11.106 min Scan# 1539

Delta R.T. -0.000 min

Lab File: VN076316.D

Acq: 19 Jan 2023 12:31

Tgt Ion:164 Resp: 1865

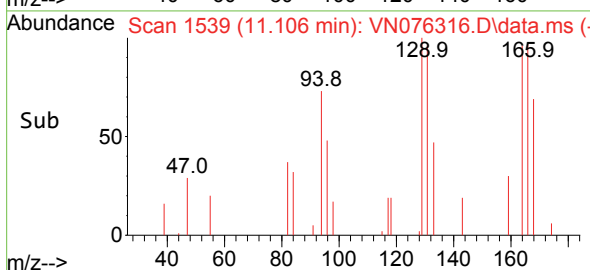
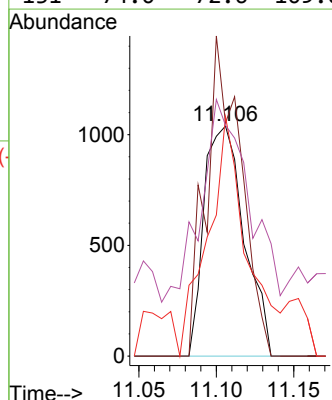
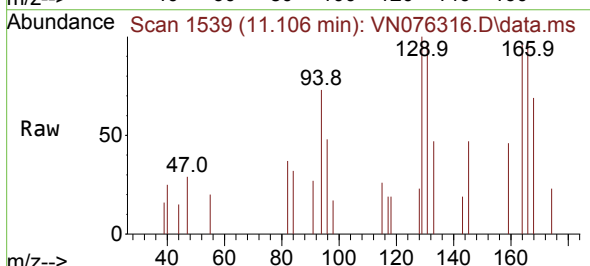
Ion Ratio Lower Upper

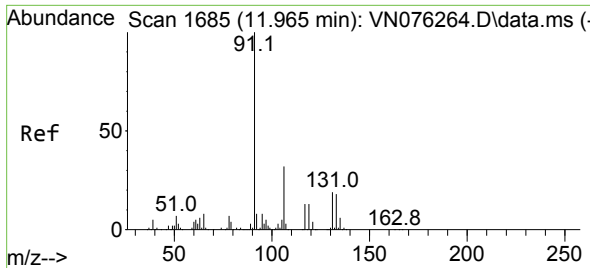
164 100

166 101.3 104.0 156.0#

129 104.1 76.6 114.8

131 74.0 72.6 109.0

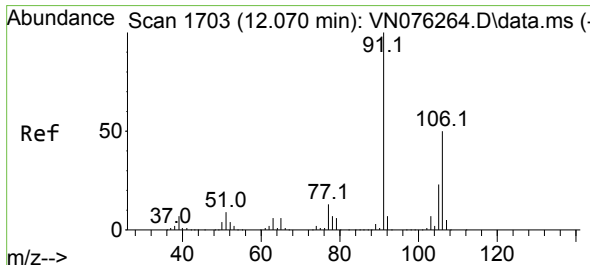
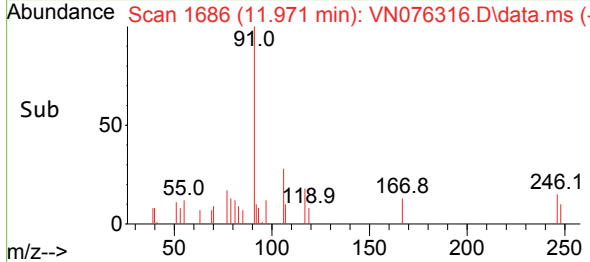
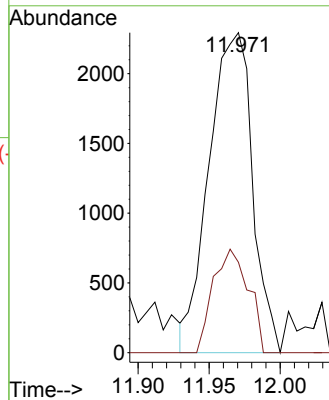
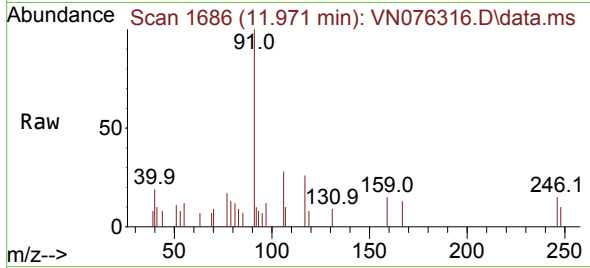




#67
Ethyl Benzene
Concen: 0.227 ug/l
RT: 11.971 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

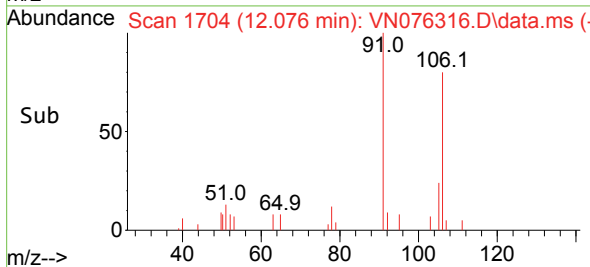
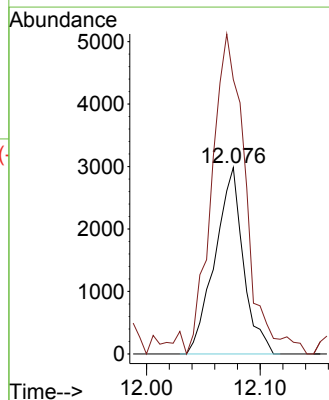
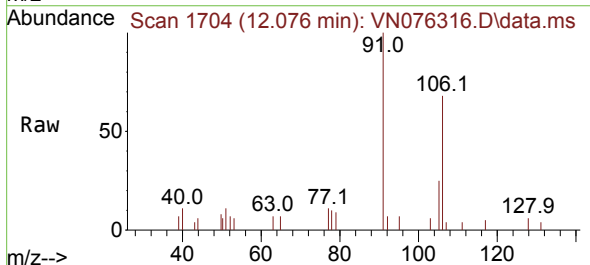
Instrument :
MSVOA_N
ClientSampleId :
TJRC-011823-GW

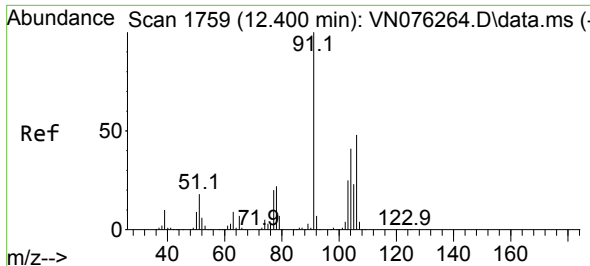
Tgt Ion: 91 Resp: 4875
Ion Ratio Lower Upper
91 100
106 28.2 25.5 38.3



#68
m/p-Xylenes
Concen: 0.603 ug/l
RT: 12.076 min Scan# 1704
Delta R.T. 0.006 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

Tgt Ion: 106 Resp: 5178
Ion Ratio Lower Upper
106 100
91 212.2 157.5 236.3

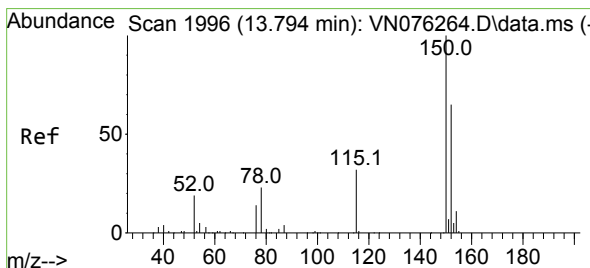
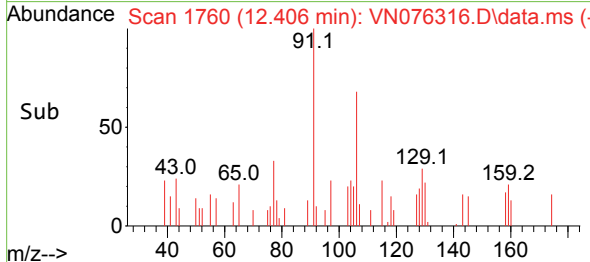
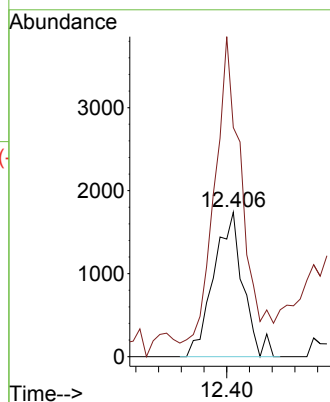
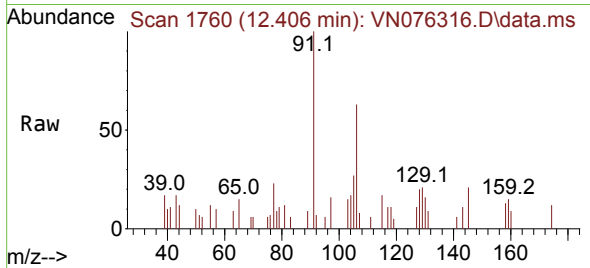




#69
o-Xylene
Concen: 0.370 ug/l
RT: 12.406 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

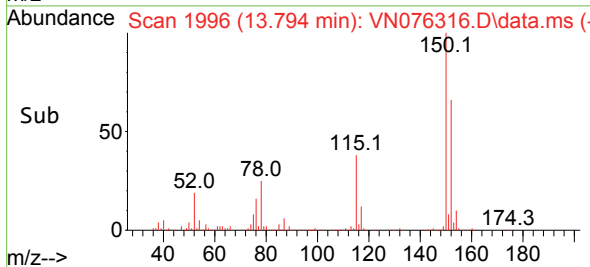
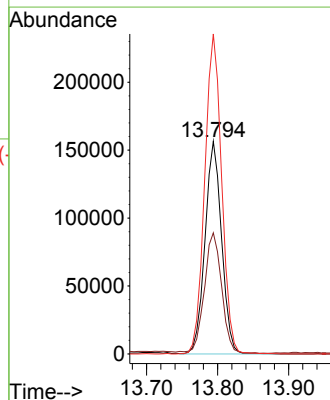
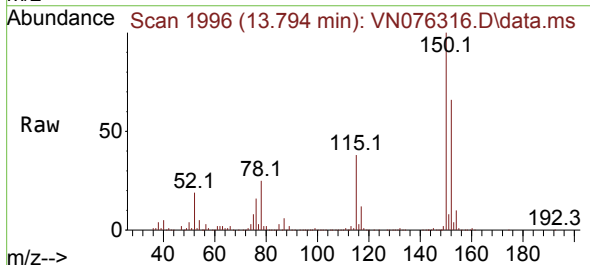
Instrument :
MSVOA_N
ClientSampleId :
TJRC-011823-GW

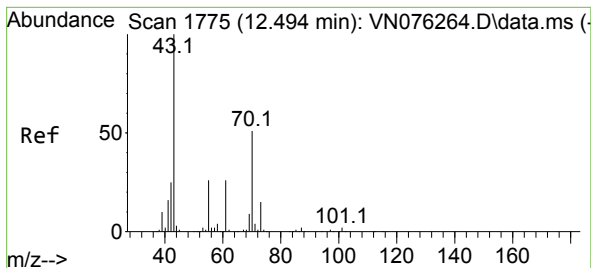
Tgt Ion:106 Resp: 3126
Ion Ratio Lower Upper
106 100
91 192.2 103.2 309.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

Tgt Ion:152 Resp: 254791
Ion Ratio Lower Upper
152 100
115 59.3 29.6 88.9
150 153.3 0.0 351.4





#74

N-amy1 acetate

Concen: 0.312 ug/l

RT: 12.500 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN076316.D

Acq: 19 Jan 2023 12:31

Instrument :

MSVOA_N

ClientSampleId :

TJRC-011823-GW

Tgt Ion: 43 Resp: 1770

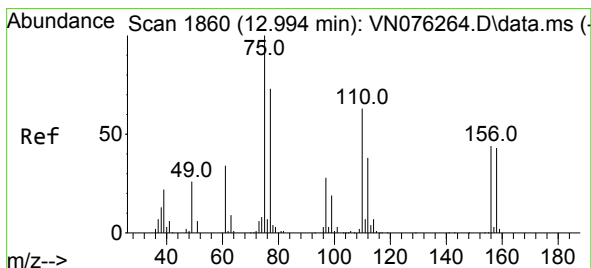
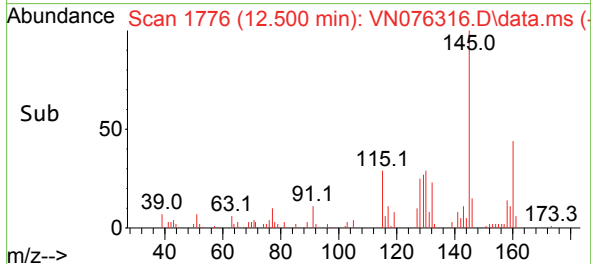
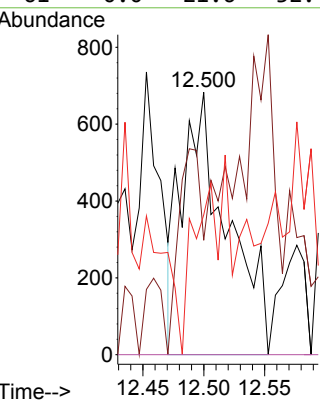
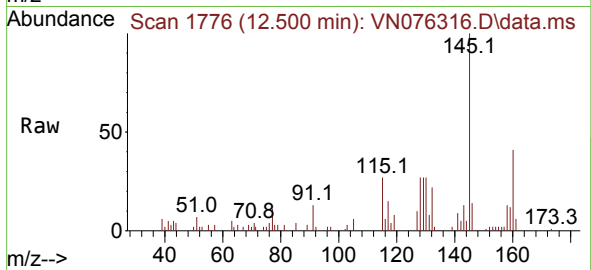
Ion Ratio Lower Upper

43 100

70 41.0 41.2 61.8#

55 34.2 21.0 31.6#

61 0.0 21.6 32.4#



#76

1,2,3-Trichloropropane

Concen: 28.099 ug/l

RT: 12.847 min Scan# 1835

Delta R.T. -0.147 min

Lab File: VN076316.D

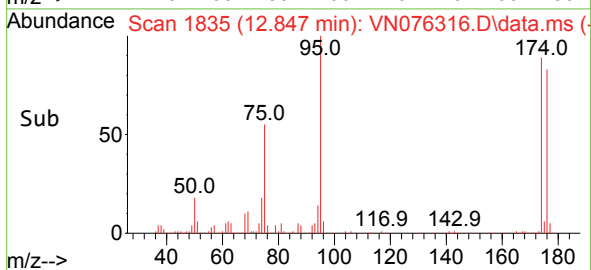
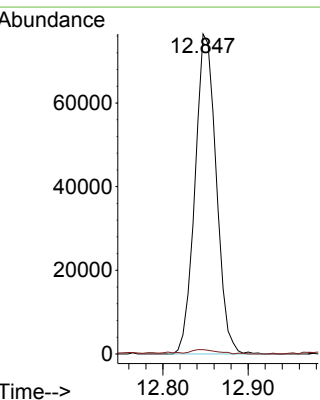
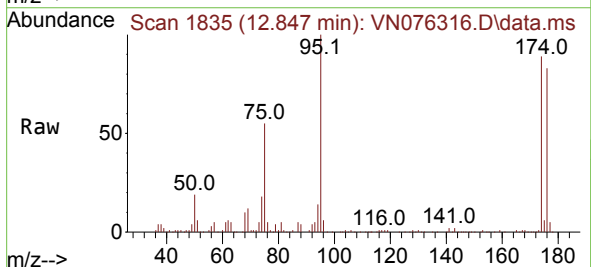
Acq: 19 Jan 2023 12:31

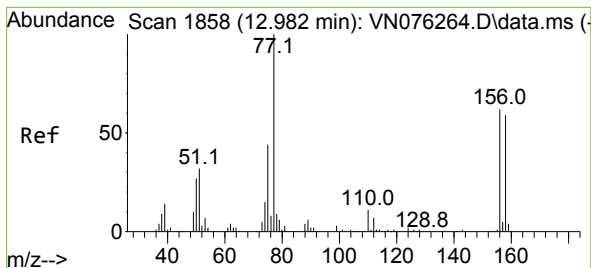
Tgt Ion: 75 Resp: 132352

Ion Ratio Lower Upper

75 100

77 1.7 75.2 225.6#





#77

Bromobenzene

Concen: Below Cal

RT: 12.982 min Scan# 1858

Delta R.T. 0.000 min

Lab File: VN076316.D

Acq: 19 Jan 2023 12:31

Instrument :

MSVOA_N

ClientSampleId :

TJRC-011823-GW

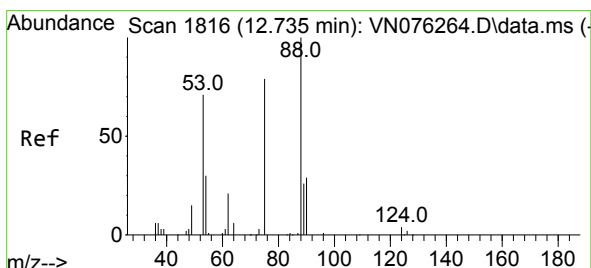
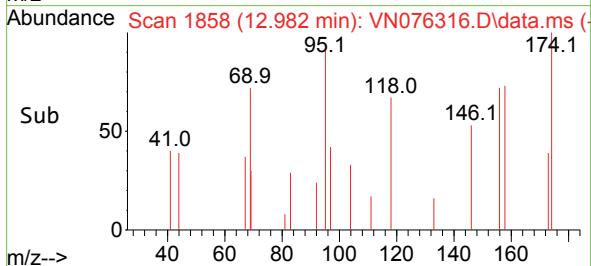
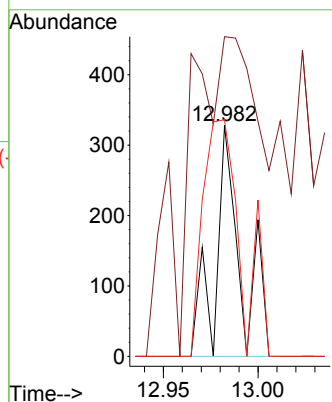
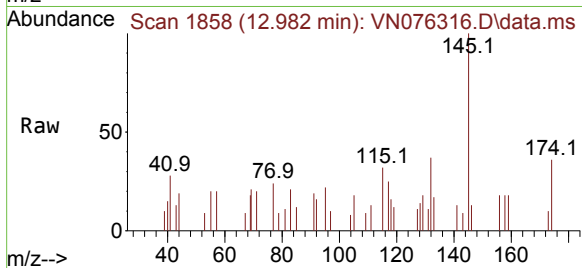
Tgt Ion:156 Resp: 302

Ion Ratio Lower Upper

156 100

77 72.2 93.4 280.2#

158 156.0 48.4 145.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 86.428 ug/l

RT: 12.847 min Scan# 1835

Delta R.T. 0.112 min

Lab File: VN076316.D

Acq: 19 Jan 2023 12:31

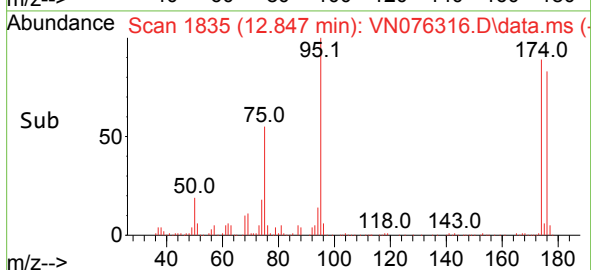
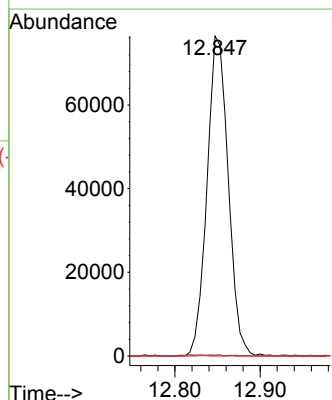
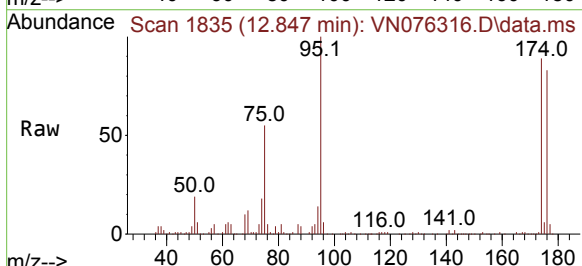
Tgt Ion: 75 Resp: 132352

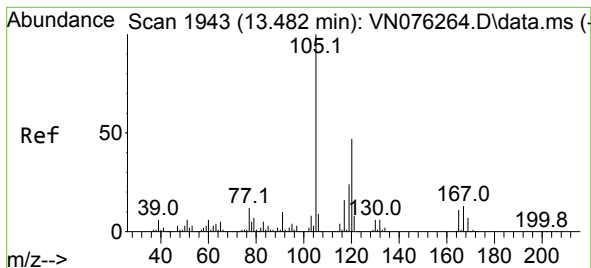
Ion Ratio Lower Upper

75 100

53 0.0 75.8 113.8#

89 0.0 37.0 55.6#





#84

1,2,4-Trimethylbenzene

Concen: 0.737 ug/l

RT: 13.482 min Scan# 1943

Delta R.T. 0.000 min

Lab File: VN076316.D

Acq: 19 Jan 2023 12:31

Instrument :

MSVOA_N

ClientSampleId :

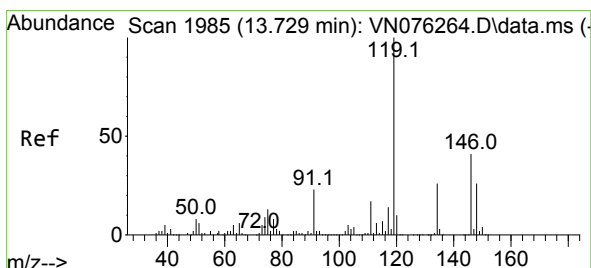
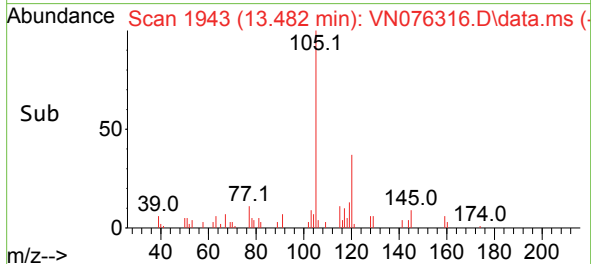
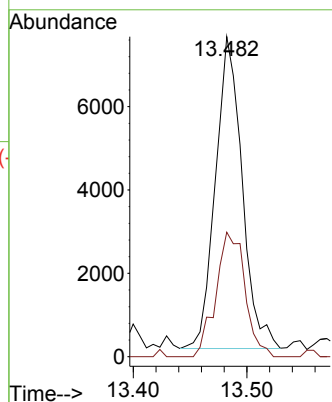
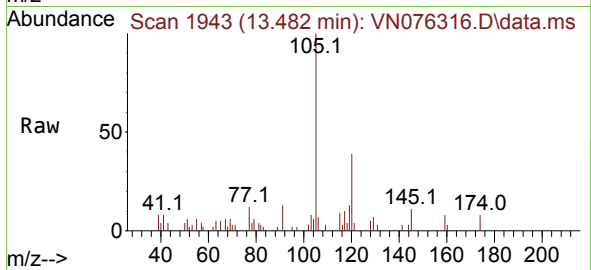
TJRC-011823-GW

Tgt Ion:105 Resp: 12207

Ion Ratio Lower Upper

105 100

120 43.4 22.9 68.5



#86

p-Isopropyltoluene

Concen: 0.207 ug/l

RT: 13.729 min Scan# 1985

Delta R.T. 0.000 min

Lab File: VN076316.D

Acq: 19 Jan 2023 12:31

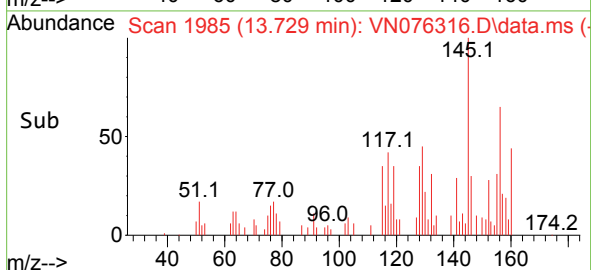
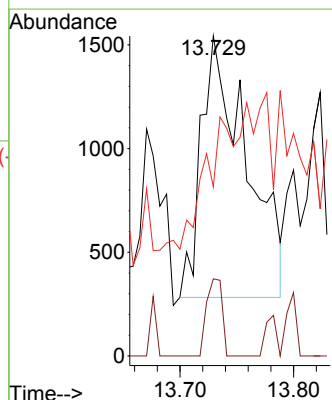
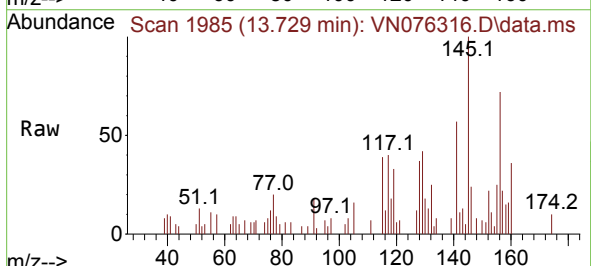
Tgt Ion:119 Resp: 3468

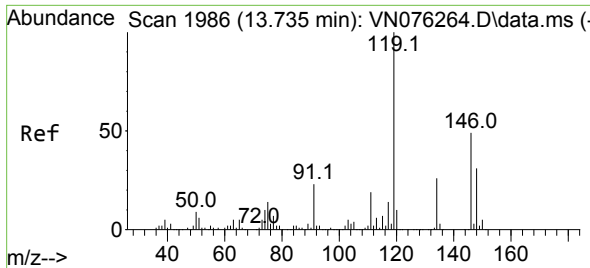
Ion Ratio Lower Upper

119 100

134 10.1 13.2 39.6#

91 31.1 11.8 35.3

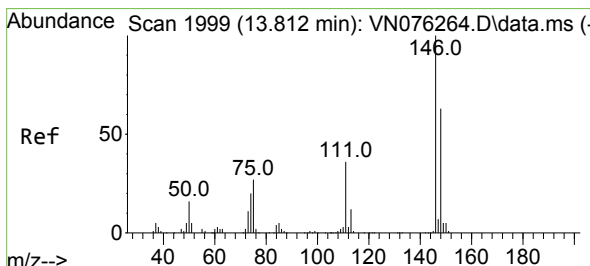
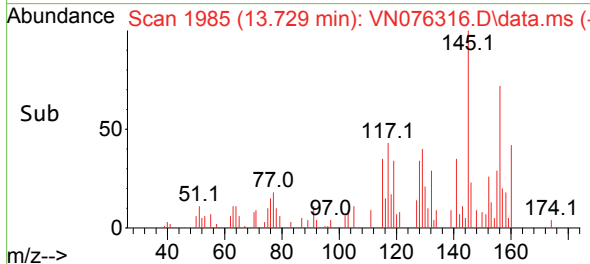
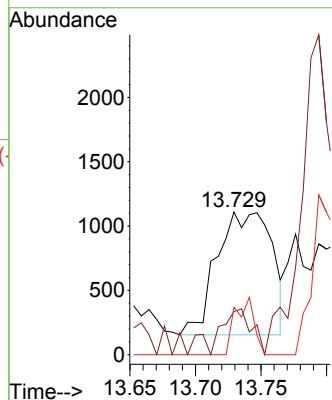
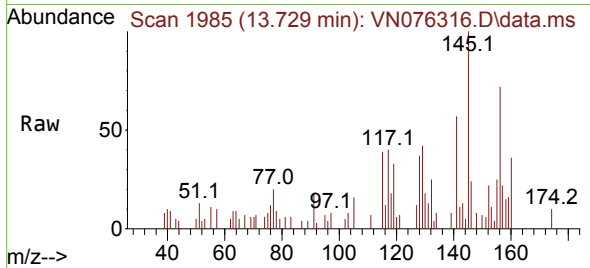




#87
 1,3-Dichlorobenzene
 Concen: 0.300 ug/l
 RT: 13.729 min Scan# 1985
 Delta R.T. -0.006 min
 Lab File: VN076316.D
 Acq: 19 Jan 2023 12:31

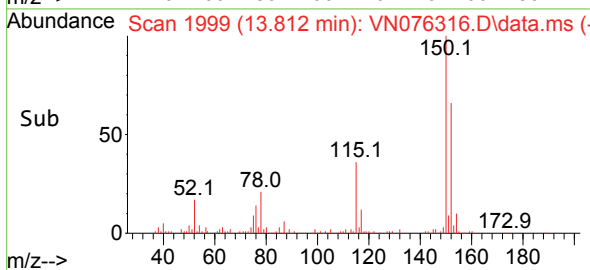
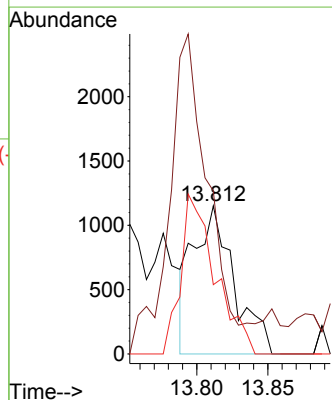
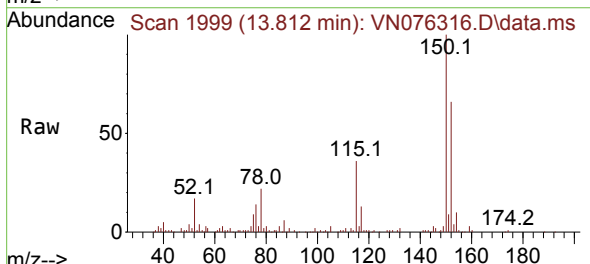
Instrument :
 MSVOA_N
 ClientSampleId :
 TJRC-011823-GW

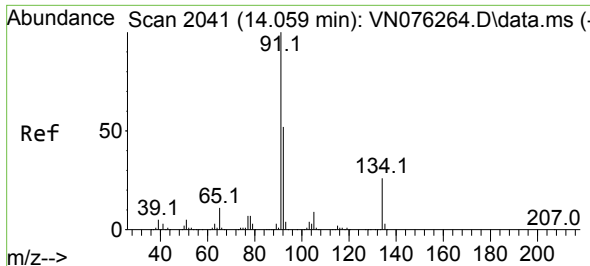
Tgt Ion:146 Resp: 2784
 Ion Ratio Lower Upper
 146 100
 111 19.7 19.9 59.7#
 148 15.9 31.6 94.8#



#88
 1,4-Dichlorobenzene
 Concen: 0.360 ug/l
 RT: 13.812 min Scan# 1999
 Delta R.T. -0.000 min
 Lab File: VN076316.D
 Acq: 19 Jan 2023 12:31

Tgt Ion:146 Resp: 2292
 Ion Ratio Lower Upper
 146 100
 111 213.0 19.1 57.5#
 148 91.6 31.9 95.9

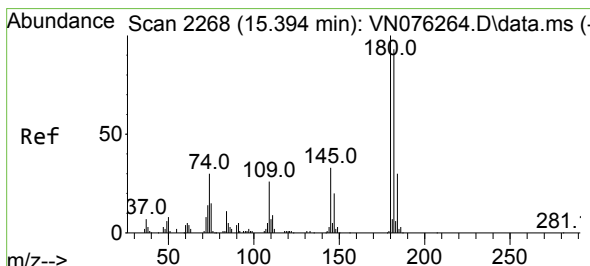
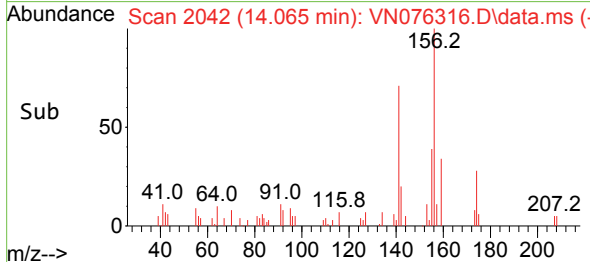
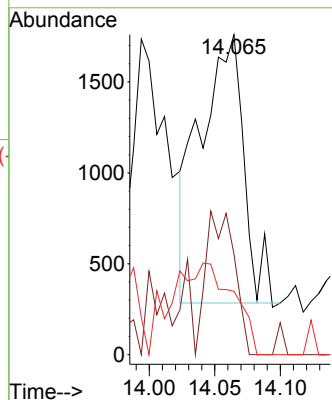
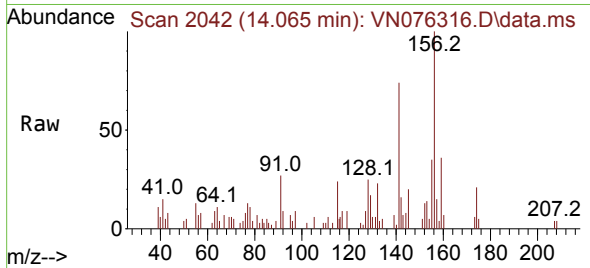




#89
n-Butylbenzene
Concen: 0.257 ug/l
RT: 14.065 min Scan# 2041
Delta R.T. 0.006 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

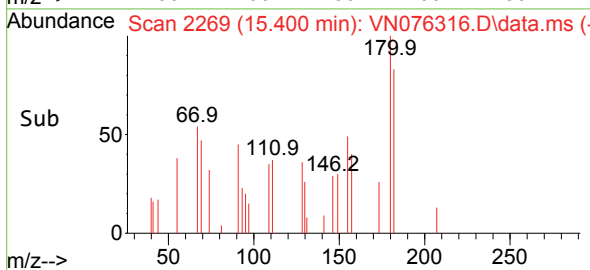
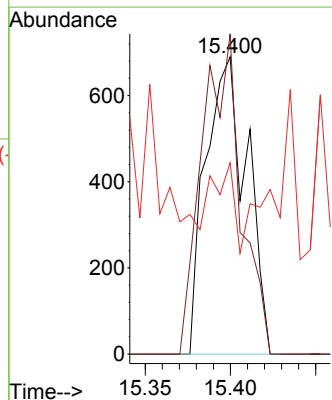
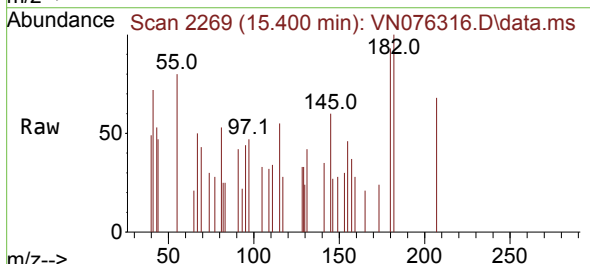
Instrument :
MSVOA_N
ClientSampleId :
TJRC-011823-GW

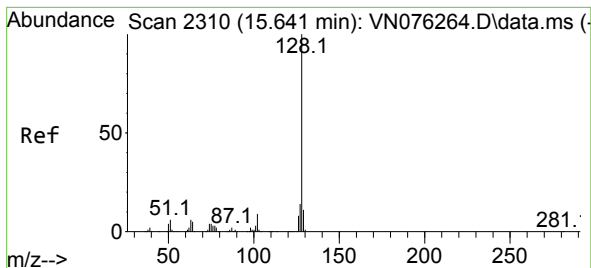
Tgt Ion: 91 Resp: 3415
Ion Ratio Lower Upper
91 100
92 0.0 26.3 78.9#
134 0.0 13.2 39.5#



#93
1,2,4-Trichlorobenzene
Concen: 1.558 ug/l
RT: 15.400 min Scan# 2269
Delta R.T. 0.006 min
Lab File: VN076316.D
Acq: 19 Jan 2023 12:31

Tgt Ion: 180 Resp: 1160
Ion Ratio Lower Upper
180 100
182 101.1 47.0 141.2
145 16.0 15.2 45.5





#95

Naphthalene

Concen: 3.836 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN076316.D

Acq: 19 Jan 2023 12:31

Instrument :

MSVOA_N

ClientSampleId :

TJRC-011823-GW

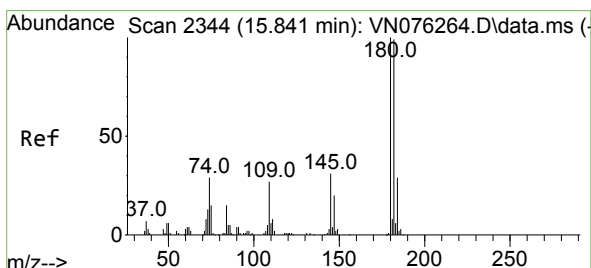
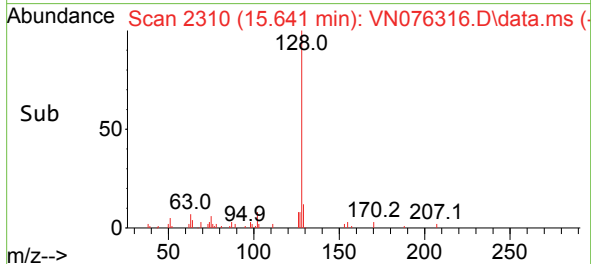
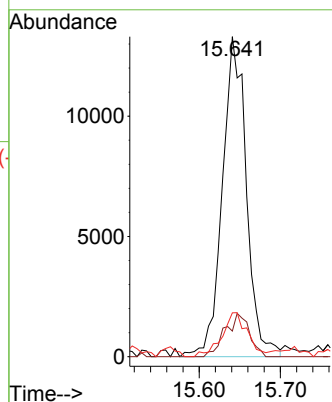
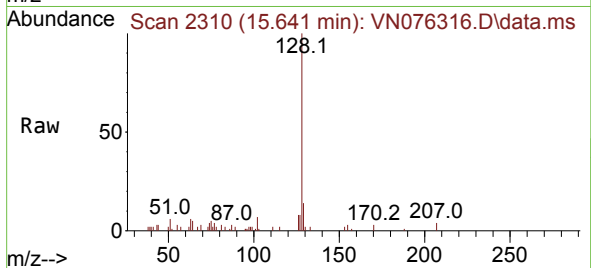
Tgt Ion:128 Resp: 27445

Ion Ratio Lower Upper

128 100

127 13.6 10.3 15.5

129 14.6 8.6 13.0#



#96

1,2,3-Trichlorobenzene

Concen: 1.402 ug/l

RT: 15.853 min Scan# 2346

Delta R.T. 0.012 min

Lab File: VN076316.D

Acq: 19 Jan 2023 12:31

Tgt Ion:180 Resp: 1082

Ion Ratio Lower Upper

180 100

182 99.1 47.5 142.5

145 91.3 15.9 47.6#

