

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032924\
 Data File : VN081616.D
 Acq On : 29 Mar 2024 15:29
 Operator : JC\MD
 Sample : P1921-05 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S-20

Quant Time: Mar 30 00:30:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031824W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 19 06:00:00 2024
 Response via : Initial Calibration

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

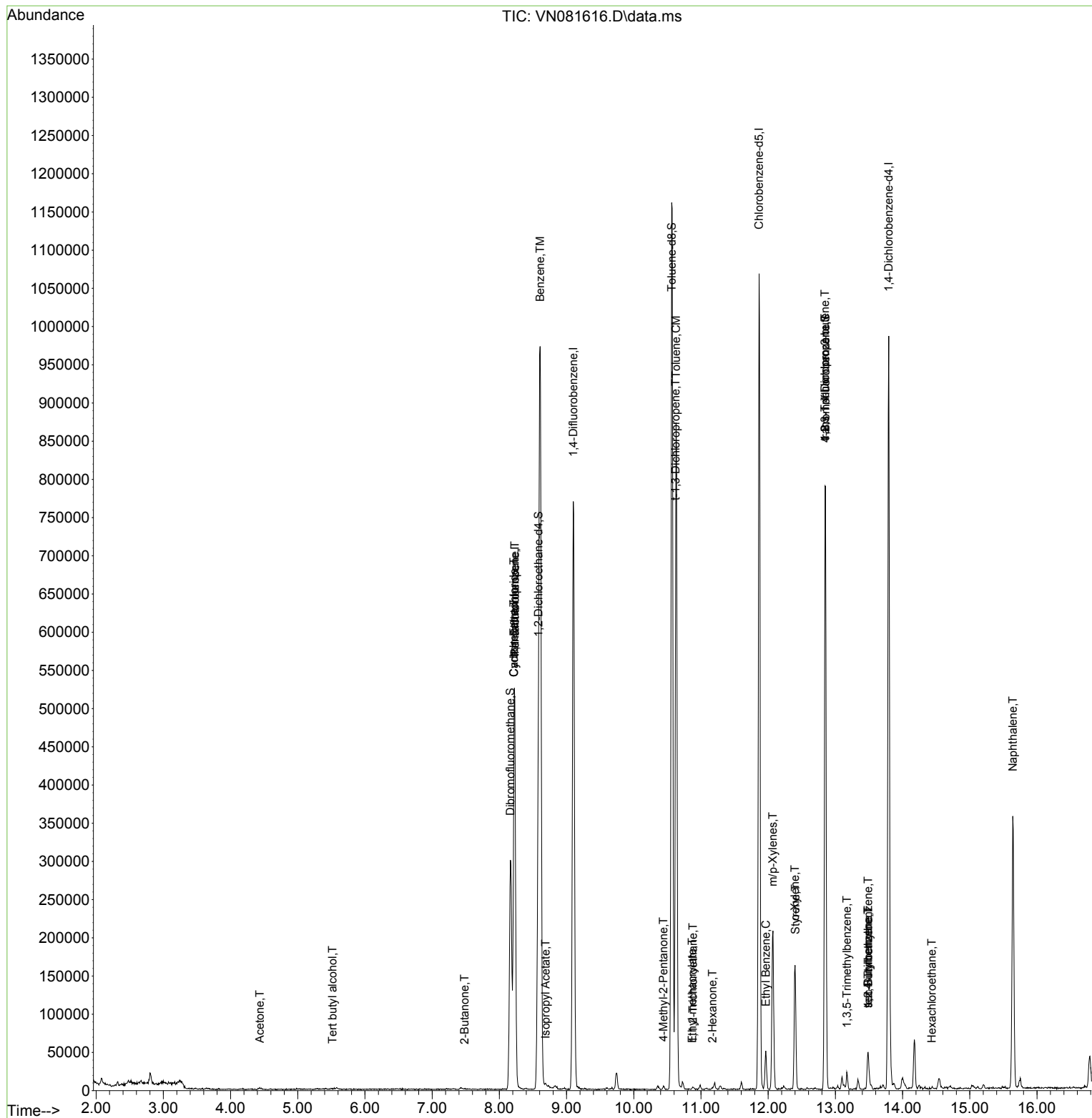
Internal Standards						
1) Pentafluorobenzene	8.230	168	371757	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	695469	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	632057	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	260256	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	257636	54.343	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery	= 108.680%		
35) Dibromofluoromethane	8.165	113	219601	50.033	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery	= 100.060%		
50) Toluene-d8	10.565	98	823870	51.926	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery	= 103.860%		
62) 4-Bromofluorobenzene	12.853	95	271387	48.543	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery	= 97.080%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.518	59	771	0.933	ug/l #	91
16) Acetone	4.436	43	3032	1.979	ug/l #	80
25) 2-Butanone	7.483	43	752	0.286	ug/l #	80
31) Cyclohexane	8.218	56	9074	1.176	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	30375	4.112	ug/l #	52
38) Carbon Tetrachloride	8.218	117	41086	5.078	ug/l #	19
40) Benzene	8.606	78	984645	45.597	ug/l	97
43) Isopropyl Acetate	8.688	43	4474	0.427	ug/l #	76
51) 4-Methyl-2-Pentanone	10.441	43	2455	0.384	ug/l #	79
52) Toluene	10.629	92	389732	28.395	ug/l	99
53) t-1,3-Dichloropropene	10.624	75	4975	0.593	ug/l #	1
55) 1,1,2-Trichloroethane	10.882	97	2548	0.461	ug/l #	13
56) Ethyl methacrylate	10.871	69	77	0.581	ug/l #	20
59) 2-Hexanone	11.171	43	1607	0.340	ug/l #	32
67) Ethyl Benzene	11.965	91	33931	1.307	ug/l	100
68) m/p-Xylenes	12.070	106	68480	7.038	ug/l	91
69) o-Xylene	12.400	106	45232	4.735	ug/l	92
70) Styrene	12.406	104	9103	0.591	ug/l #	24
76) 1,2,3-Trichloropropane	12.847	75	145809	23.421	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.170	105	9792	0.534	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.847	75	145809	63.292	ug/l #	14
83) tert-Butylbenzene	13.488	119	3618	0.229	ug/l #	76
84) 1,2,4-Trimethylbenzene	13.488	105	30489	1.656	ug/l	98
85) sec-Butylbenzene	13.488	105	30489	1.350	ug/l #	60
90) Hexachloroethane	14.435	117	1064	0.304	ug/l #	21
95) Naphthalene	15.641	128	329035	18.122	ug/l	99

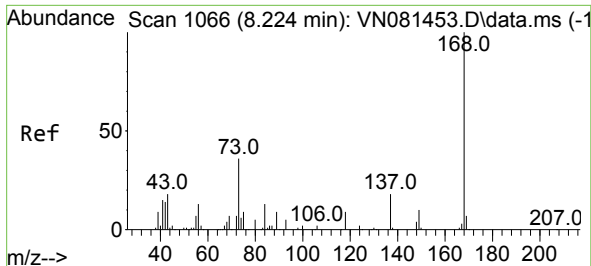
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Mar 19 06:00:00 2024
Response via : Initial Calibration

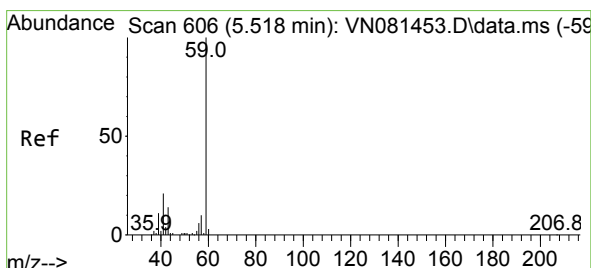
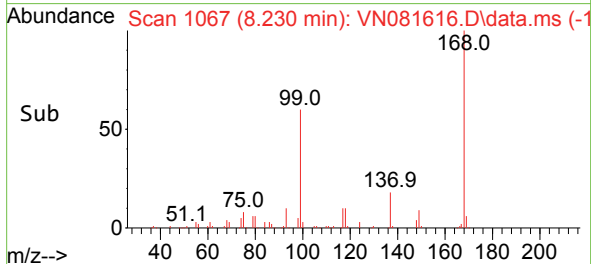
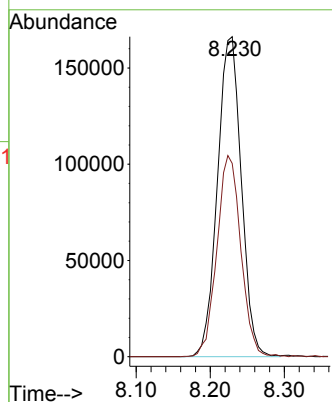
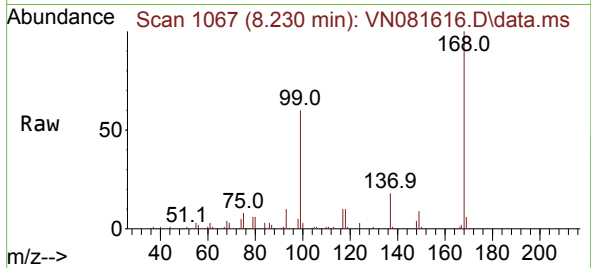




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

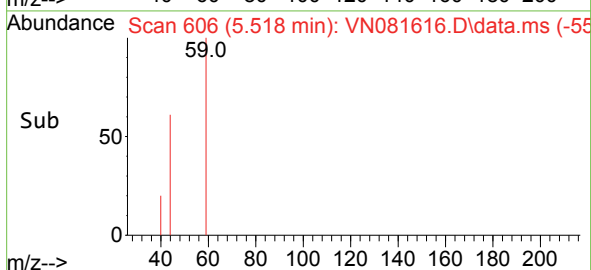
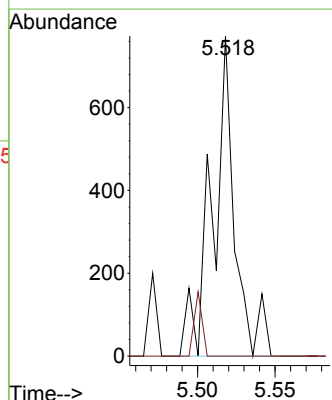
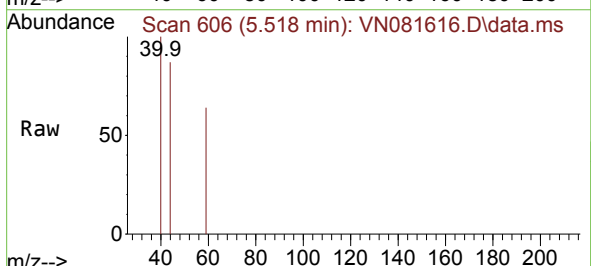
Instrument :
MSVOA_N
ClientSampleId :
S-20

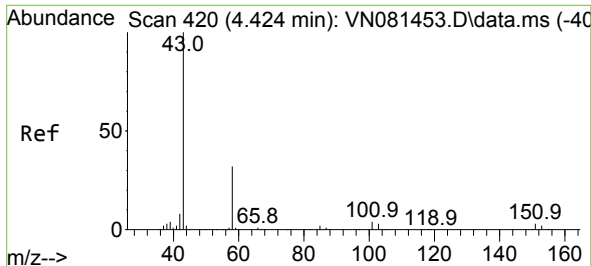
Tgt Ion:168 Resp: 371757
Ion Ratio Lower Upper
168 100
99 60.4 59.9 89.9



#11
Tert butyl alcohol
Concen: 0.933 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

Tgt Ion: 59 Resp: 771
Ion Ratio Lower Upper
59 100
57 7.1 8.6 12.8#

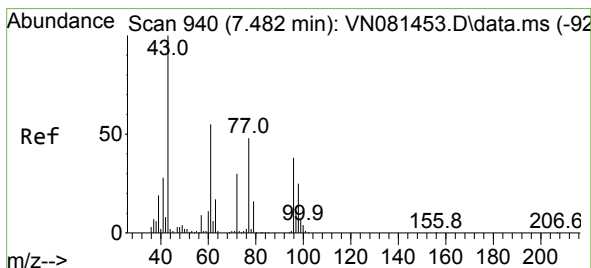
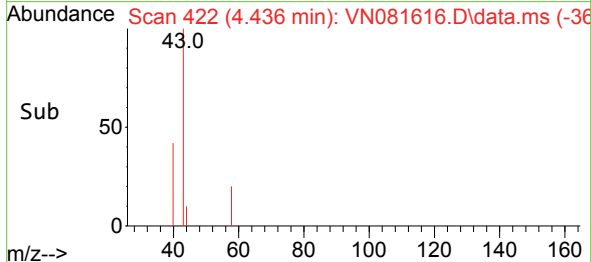
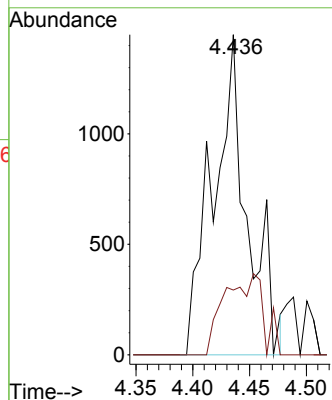
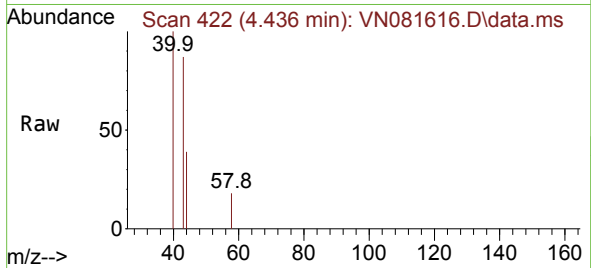




#16
Acetone
Concen: 1.979 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

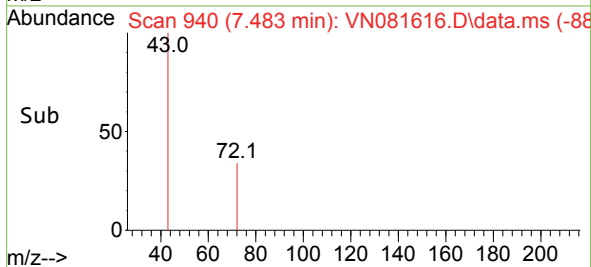
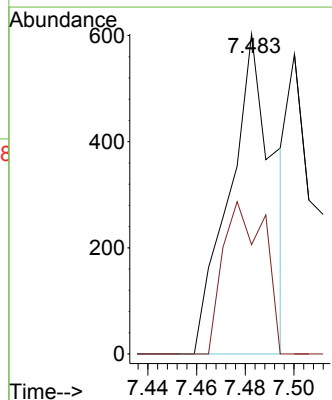
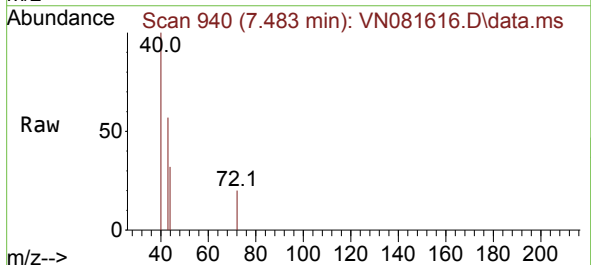
Instrument :
MSVOA_N
ClientSampleId :
S-20

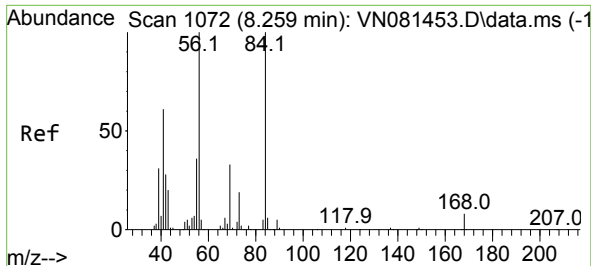
Tgt Ion: 43 Resp: 3032
Ion Ratio Lower Upper
43 100
58 20.2 24.8 37.2#



#25
2-Butanone
Concen: 0.286 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

Tgt Ion: 43 Resp: 752
Ion Ratio Lower Upper
43 100
72 34.2 19.5 29.3#

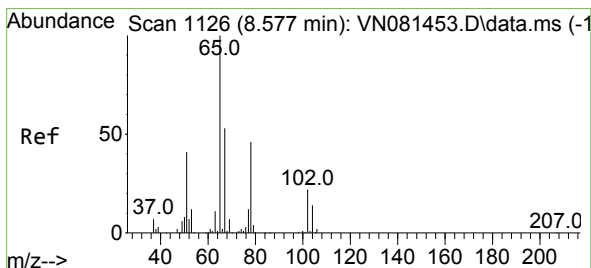
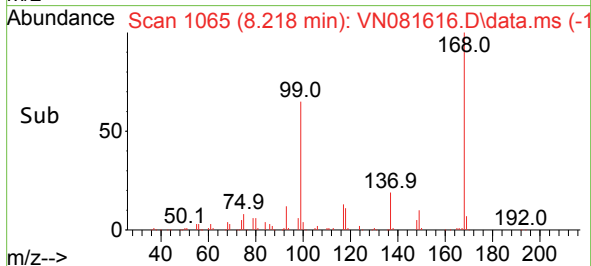
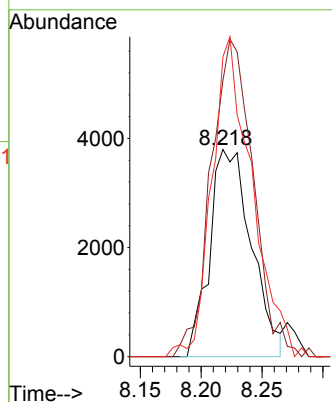
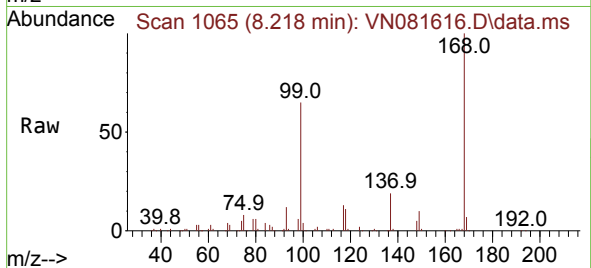




#31
Cyclohexane
Concen: 1.176 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.041 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

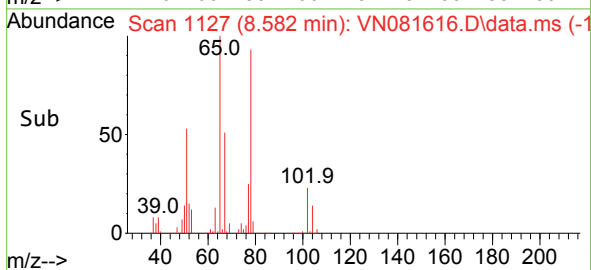
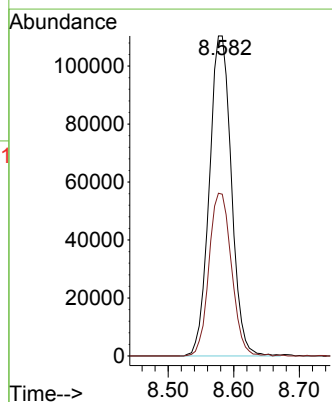
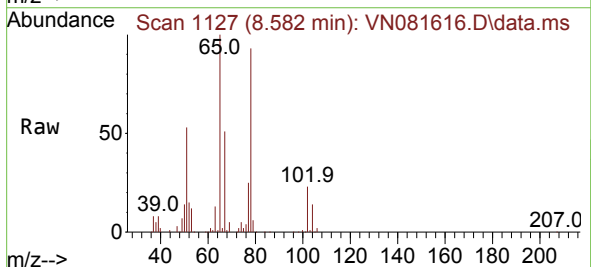
Instrument :
MSVOA_N
ClientSampleId :
S-20

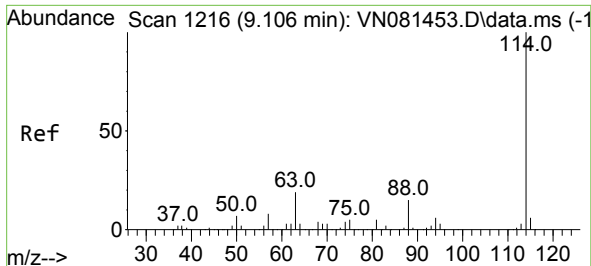
Tgt Ion: 56 Resp: 9074
Ion Ratio Lower Upper
56 100
69 127.8 20.1 30.1#
84 139.0 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 54.343 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

Tgt Ion: 65 Resp: 257636
Ion Ratio Lower Upper
65 100
67 51.9 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN081616.D

Acq: 29 Mar 2024 15:29

Instrument :

MSVOA_N

ClientSampleId :

S-20

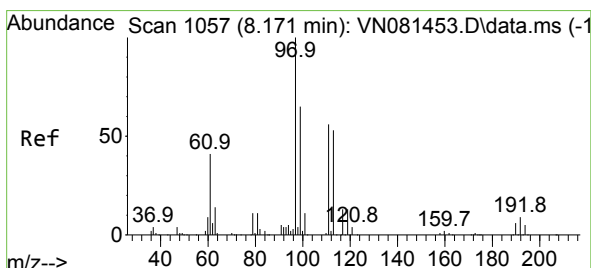
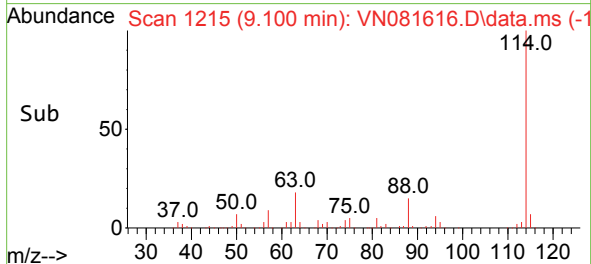
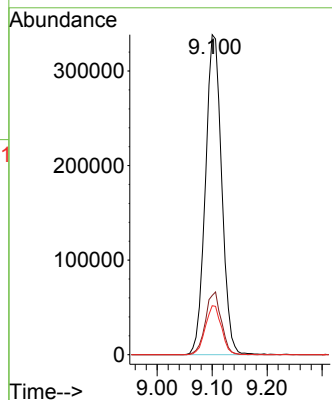
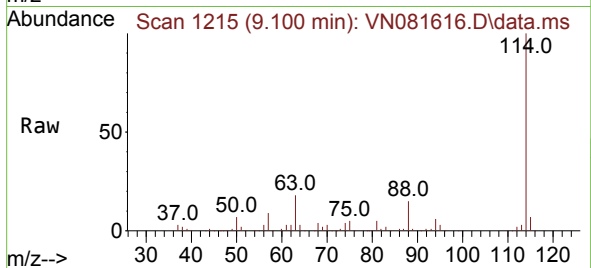
Tgt Ion:114 Resp: 695469

Ion Ratio Lower Upper

114 100

63 18.5 0.0 48.0

88 15.3 0.0 34.8



#35

Dibromofluoromethane

Concen: 50.033 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN081616.D

Acq: 29 Mar 2024 15:29

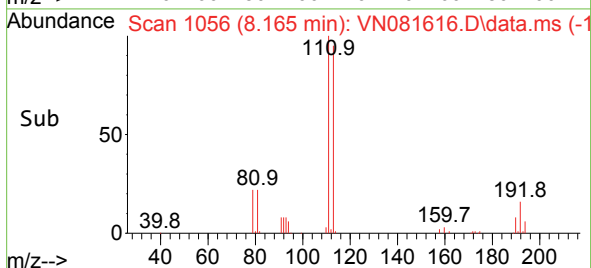
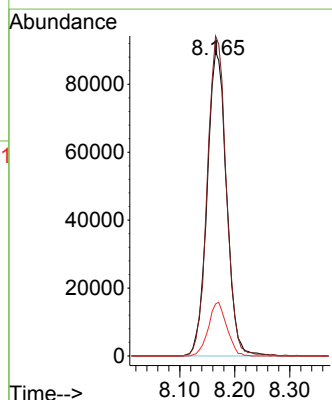
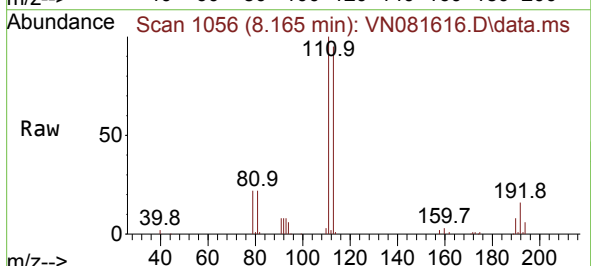
Tgt Ion:113 Resp: 219601

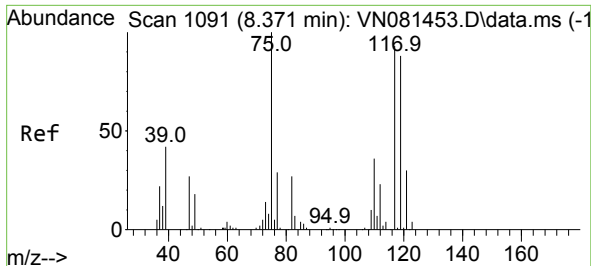
Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.4

192 16.7 12.5 18.7

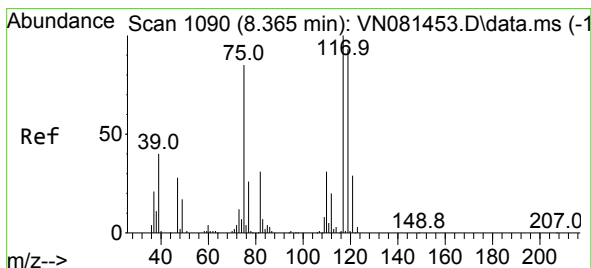
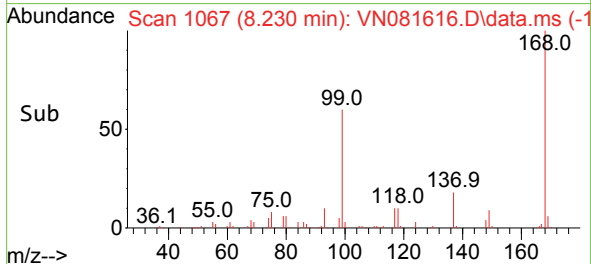
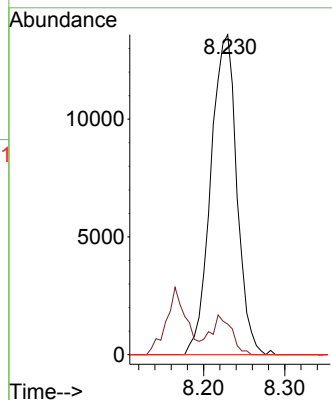
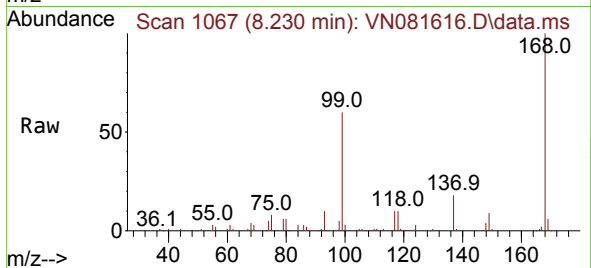




#36
1,1-Dichloropropene
Concen: 4.112 ug/l
RT: 8.230 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

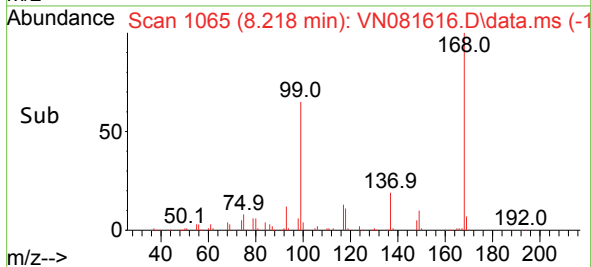
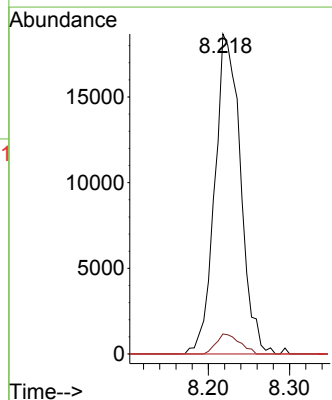
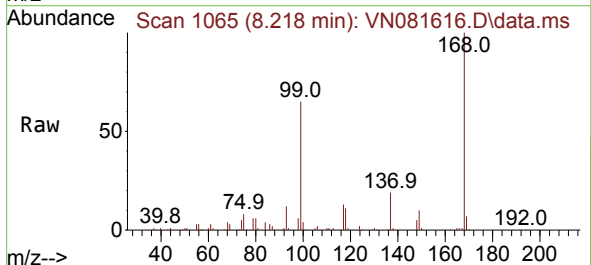
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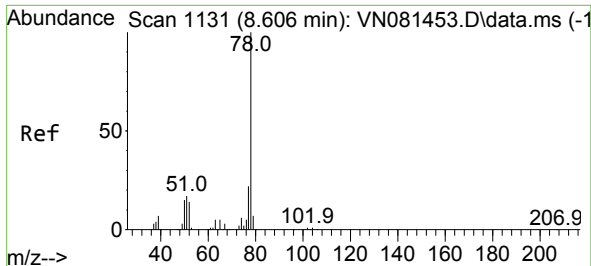
Tgt Ion: 75 Resp: 30375
Ion Ratio Lower Upper
75 100
110 10.1 16.0 48.0#
77 0.0 25.8 38.6#



#38
Carbon Tetrachloride
Concen: 5.078 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

Tgt Ion: 117 Resp: 41086
Ion Ratio Lower Upper
117 100
119 6.2 73.4 110.2#
121 0.0 24.4 36.6#

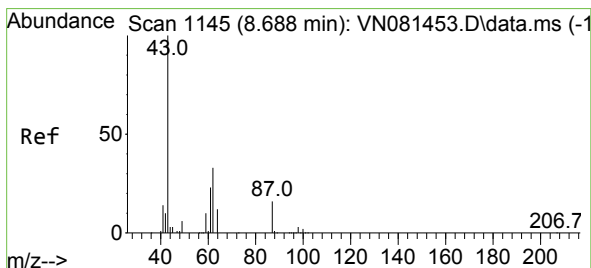
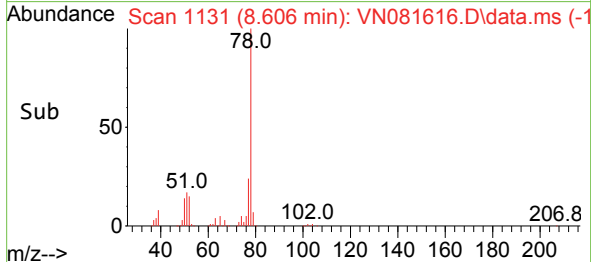
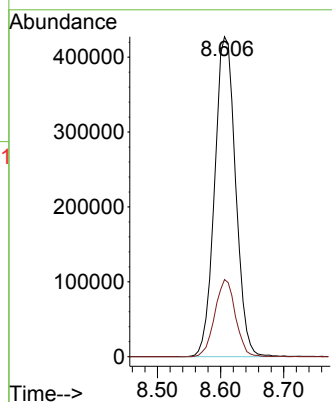
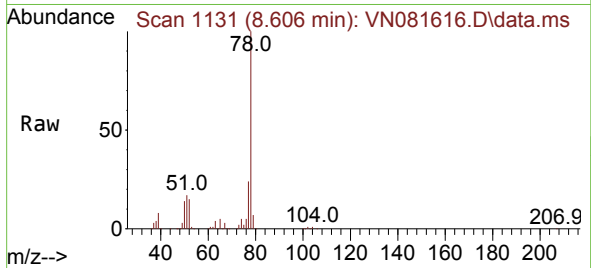




#40
Benzene
Concen: 45.597 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

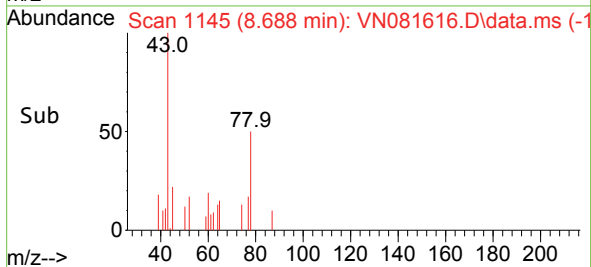
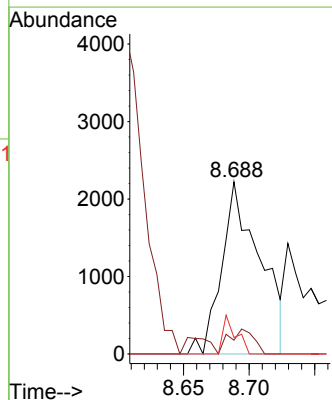
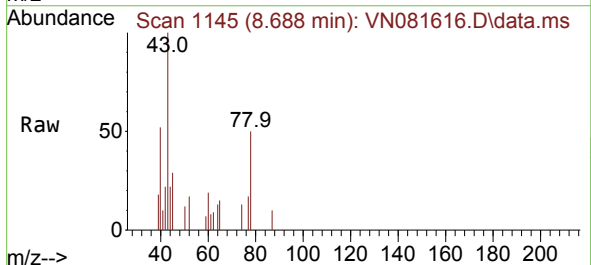
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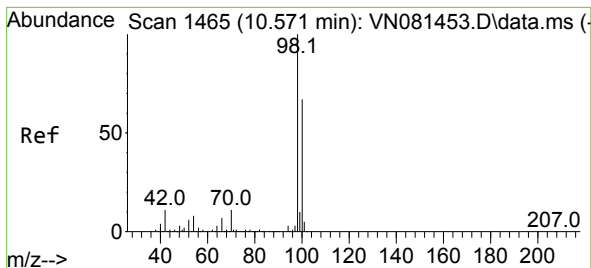
Tgt Ion: 78 Resp: 984645
Ion Ratio Lower Upper
78 100
77 24.1 20.4 30.6



#43
Isopropyl Acetate
Concen: 0.427 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

Tgt Ion: 43 Resp: 4474
Ion Ratio Lower Upper
43 100
61 9.3 19.9 29.9#
87 7.6 9.0 13.6#

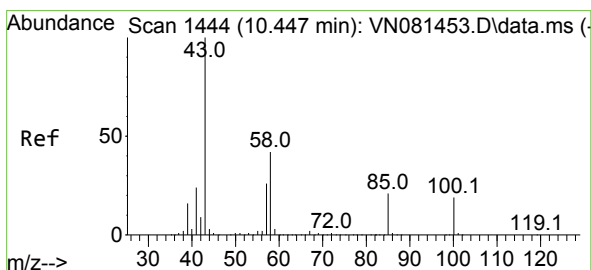
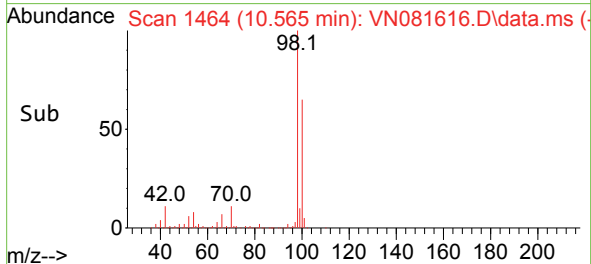
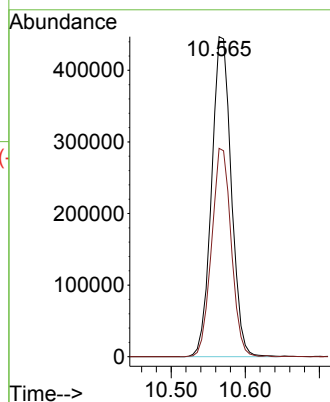
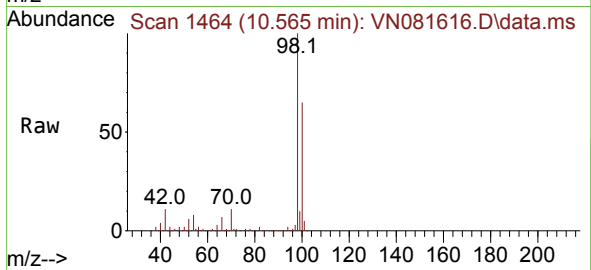




#50
Toluene-d8
Concen: 51.926 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

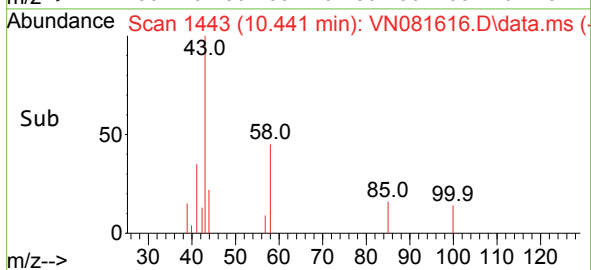
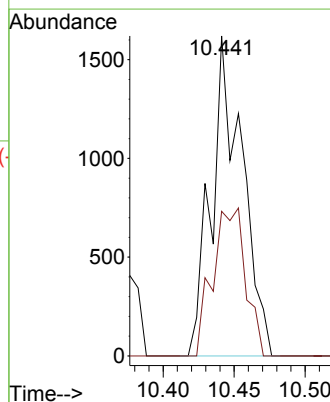
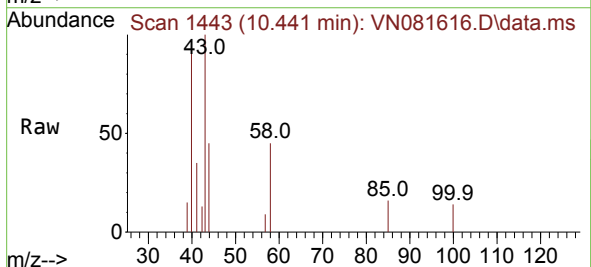
Instrument :
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ClientSampleId :
S-20

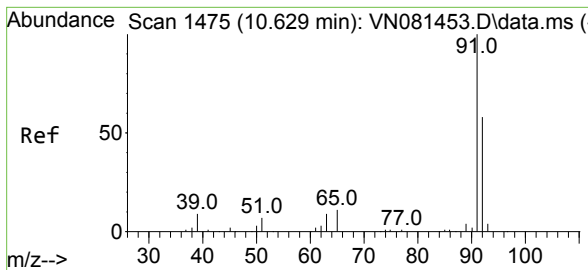
Tgt Ion: 98 Resp: 823870
Ion Ratio Lower Upper
98 100
100 64.9 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 0.384 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

Tgt Ion: 43 Resp: 2455
Ion Ratio Lower Upper
43 100
58 49.1 29.4 44.0#





#52

Toluene

Concen: 28.395 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN081616.D

Acq: 29 Mar 2024 15:29

Instrument :

MSVOA_N

ClientSampleId :

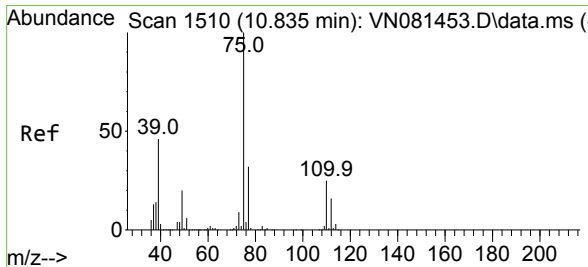
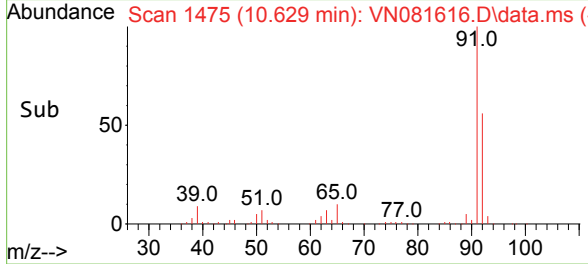
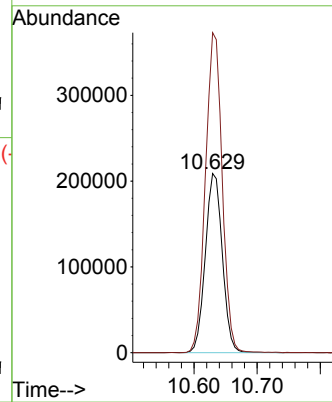
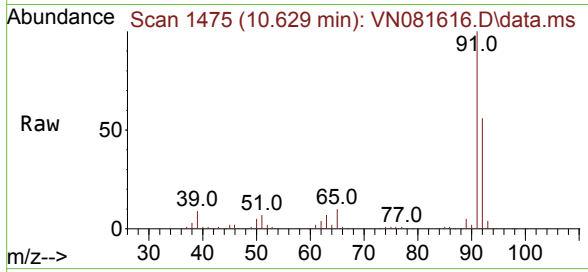
S-20

Tgt Ion: 92 Resp: 389732

Ion Ratio Lower Upper

92 100

91 176.3 139.4 209.0



#53

t-1,3-Dichloropropene

Concen: 0.593 ug/l

RT: 10.624 min Scan# 1474

Delta R.T. -0.212 min

Lab File: VN081616.D

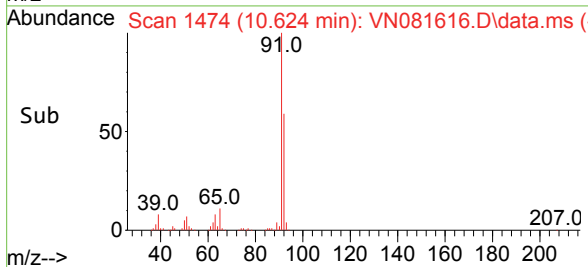
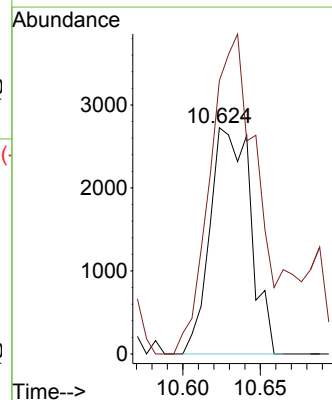
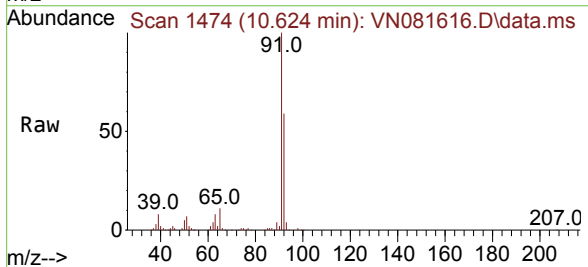
Acq: 29 Mar 2024 15:29

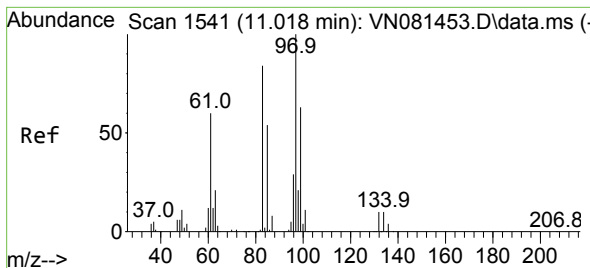
Tgt Ion: 75 Resp: 4975

Ion Ratio Lower Upper

75 100

77 111.5 25.5 38.3#





#55

1,1,2-Trichloroethane

Concen: 0.461 ug/l

RT: 10.882 min Scan# 1518

Delta R.T. -0.135 min

Lab File: VN081616.D

Acq: 29 Mar 2024 15:29

Instrument :

MSVOA_N

ClientSampleId :

S-20

Tgt Ion: 97 Resp: 2548

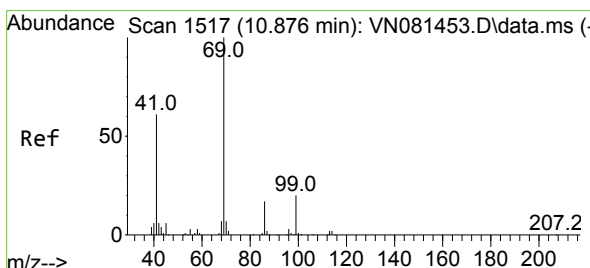
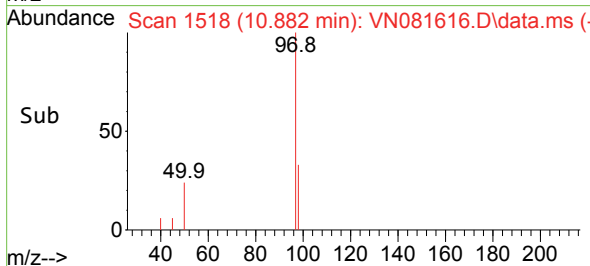
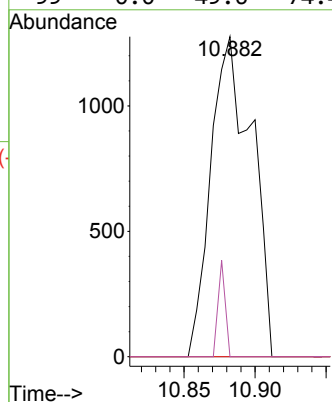
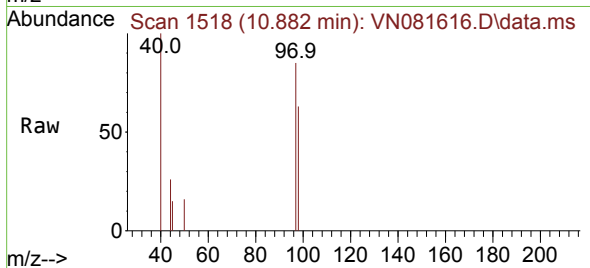
Ion Ratio Lower Upper

97 100

83 0.0 72.9 109.3#

85 0.0 50.2 75.2#

99 0.0 49.6 74.4#



#56

Ethyl methacrylate

Concen: 0.581 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.005 min

Lab File: VN081616.D

Acq: 29 Mar 2024 15:29

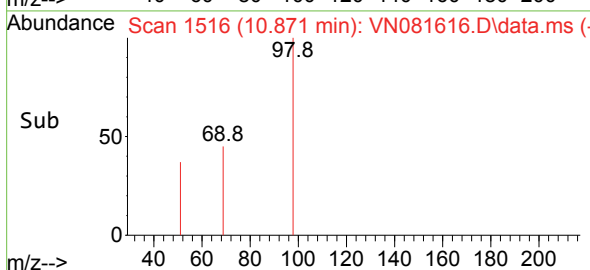
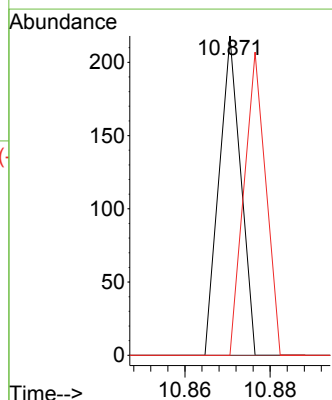
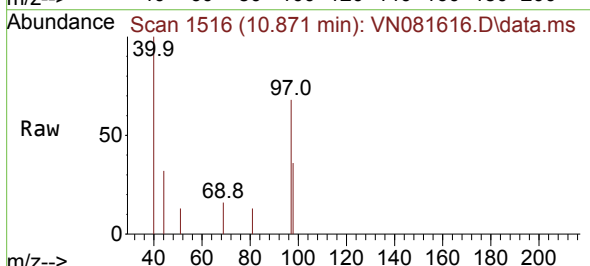
Tgt Ion: 69 Resp: 77

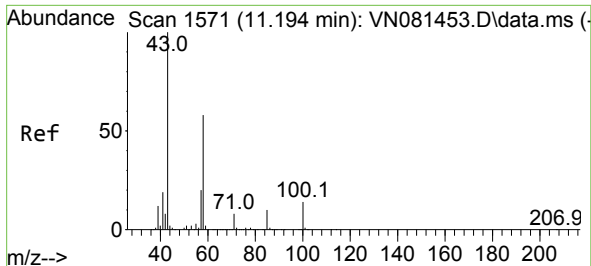
Ion Ratio Lower Upper

69 100

41 0.0 61.0 91.6#

39 0.0 31.8 47.6#

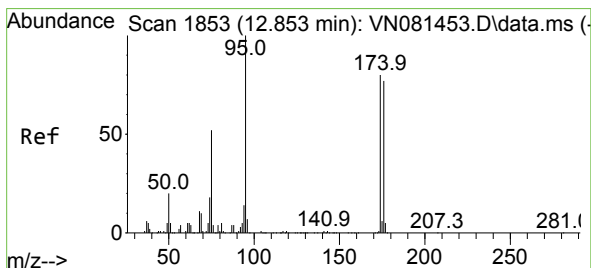
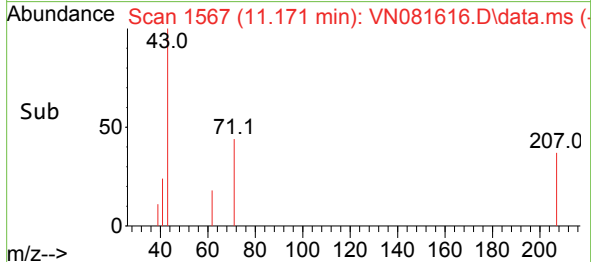
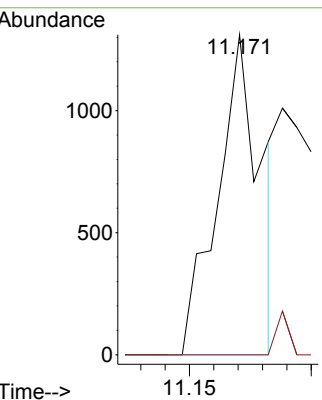
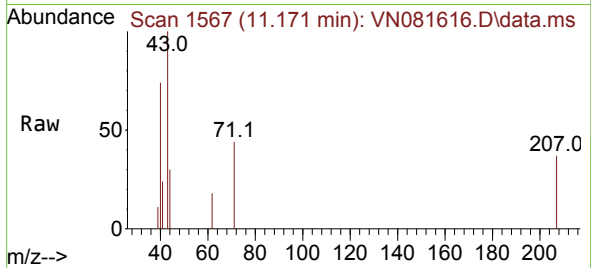




#59
2-Hexanone
Concen: 0.340 ug/l
RT: 11.171 min Scan# 1567
Delta R.T. -0.023 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

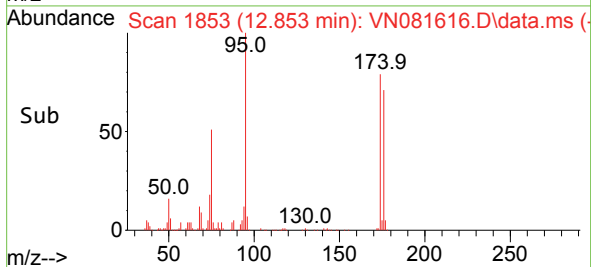
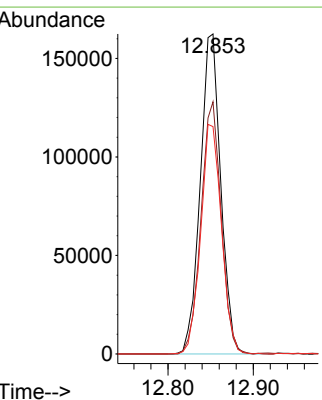
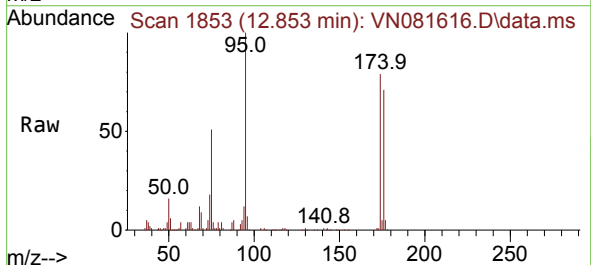
Instrument :
MSVOA_N
ClientSampleId :
S-20

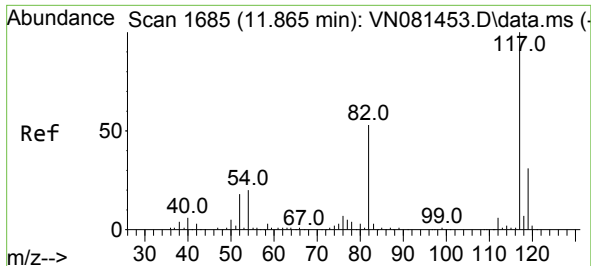
Tgt Ion: 43 Resp: 1607
Ion Ratio Lower Upper
43 100
58 3.9 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 48.543 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

Tgt Ion: 95 Resp: 271387
Ion Ratio Lower Upper
95 100
174 77.3 0.0 120.4
176 72.8 0.0 121.0

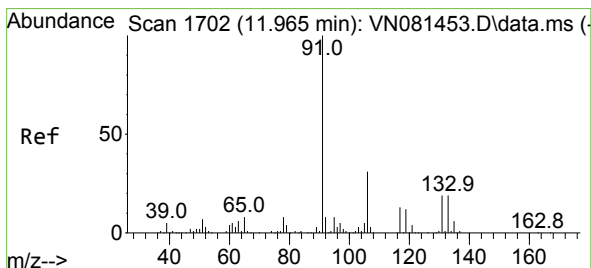
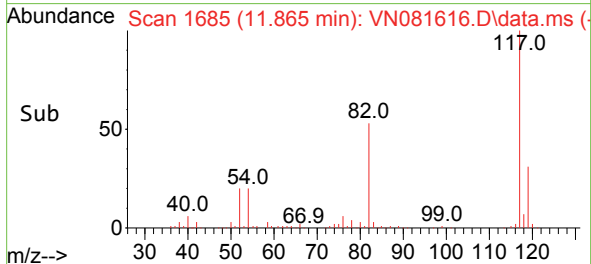
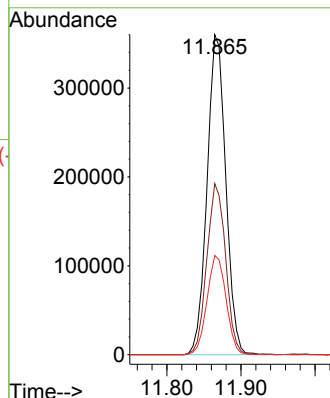
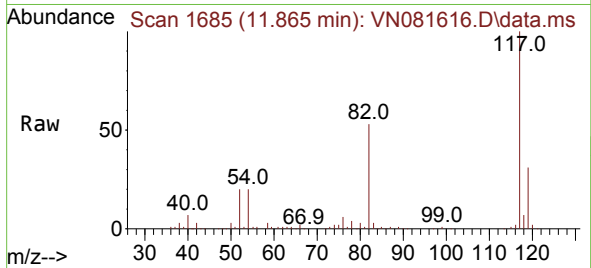




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

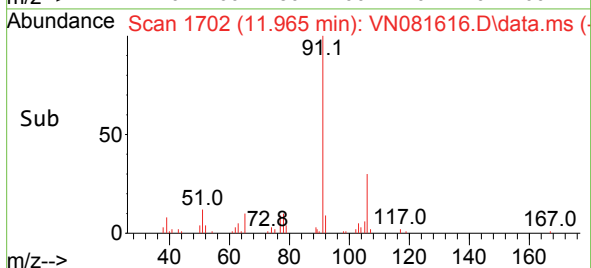
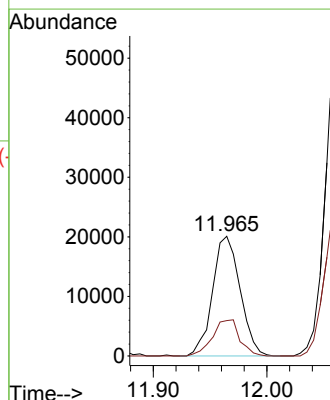
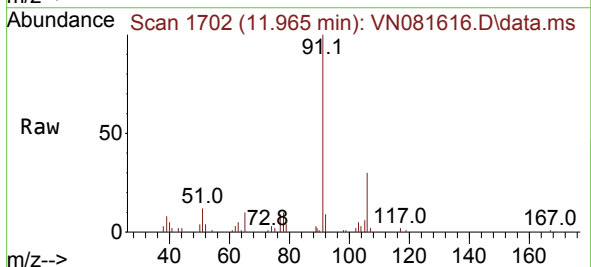
Instrument :
MSVOA_N
ClientSampleId :
S-20

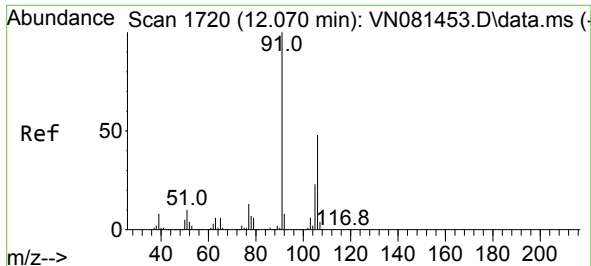
Tgt Ion:117 Resp: 632057
Ion Ratio Lower Upper
117 100
82 53.5 52.7 79.1
119 31.0 25.3 37.9



#67
Ethyl Benzene
Concen: 1.307 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

Tgt Ion: 91 Resp: 33931
Ion Ratio Lower Upper
91 100
106 29.5 23.8 35.6

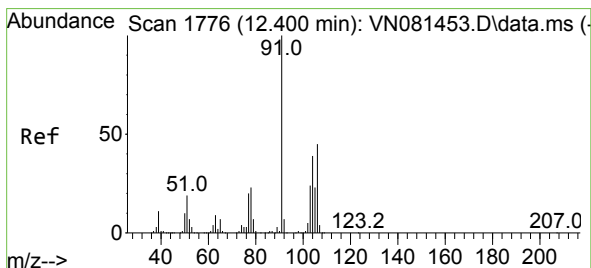
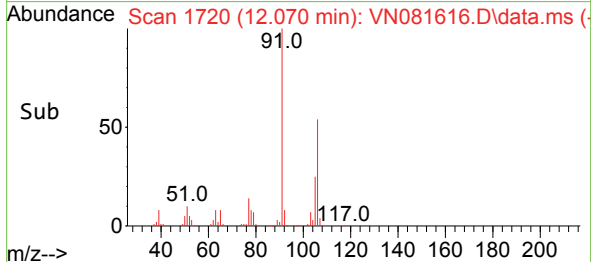
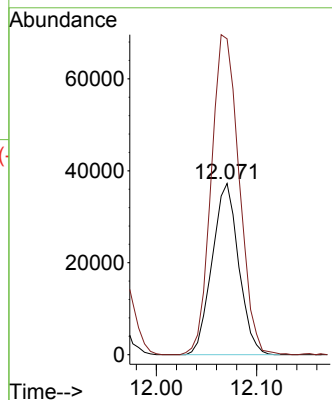
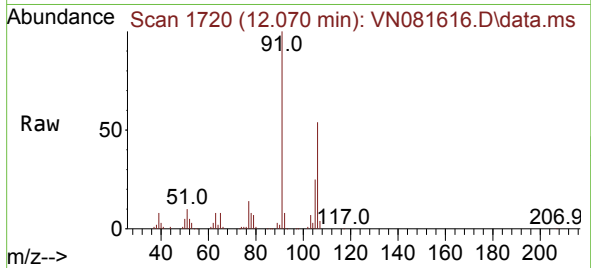




#68
m/p-Xylenes
Concen: 7.038 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

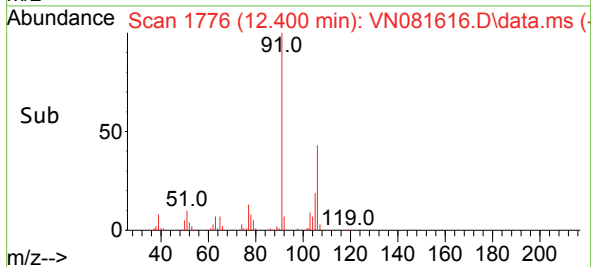
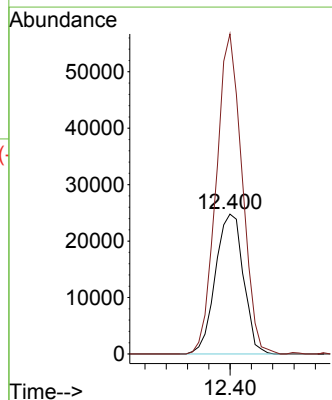
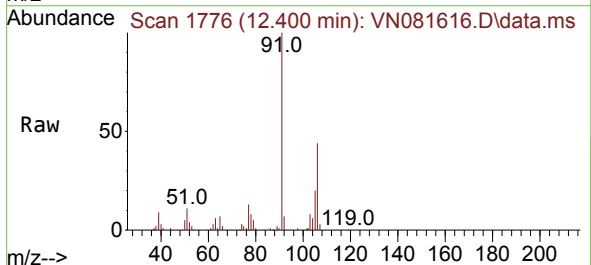
Instrument :
MSVOA_N
ClientSampleId :
S-20

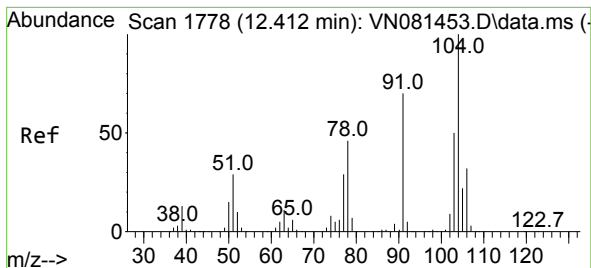
Tgt Ion:106 Resp: 68480
Ion Ratio Lower Upper
106 100
91 196.6 169.0 253.6



#69
o-Xylene
Concen: 4.735 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

Tgt Ion:106 Resp: 45232
Ion Ratio Lower Upper
106 100
91 211.1 112.1 336.3





#70

Styrene

Concen: 0.591 ug/l

RT: 12.406 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN081616.D

Acq: 29 Mar 2024 15:29

Instrument :

MSVOA_N

ClientSampleId :

S-20

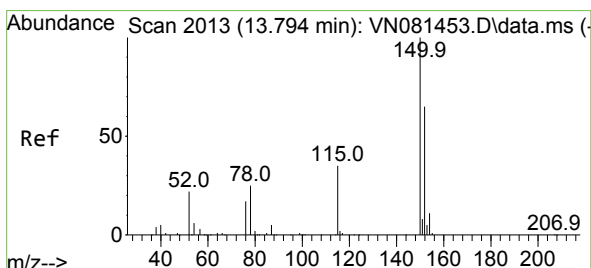
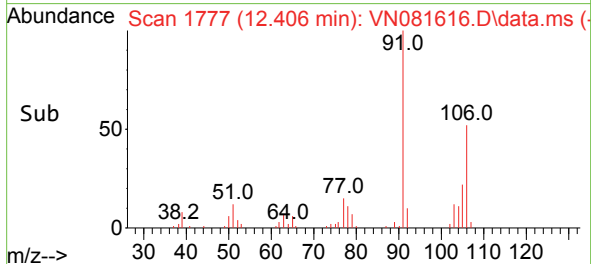
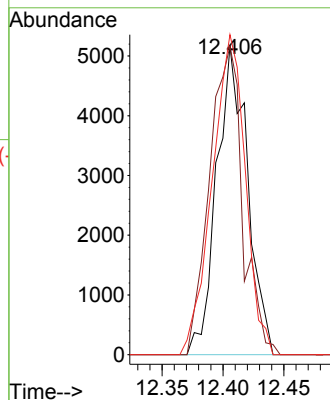
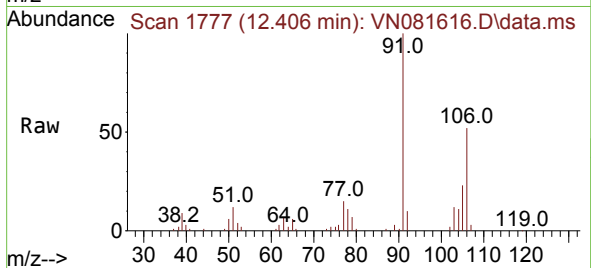
Tgt Ion:104 Resp: 9103

Ion Ratio Lower Upper

104 100

78 107.6 43.8 65.8#

103 111.6 44.2 66.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN081616.D

Acq: 29 Mar 2024 15:29

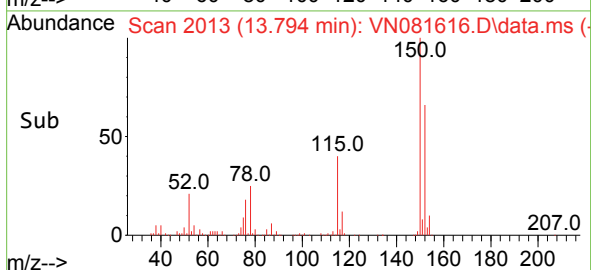
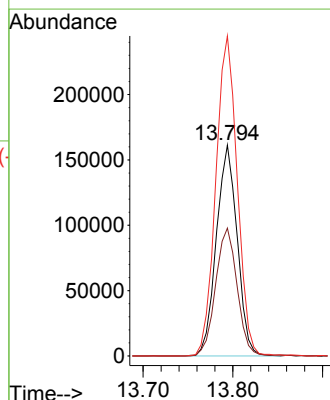
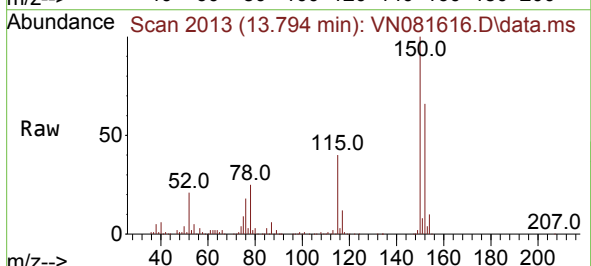
Tgt Ion:152 Resp: 260256

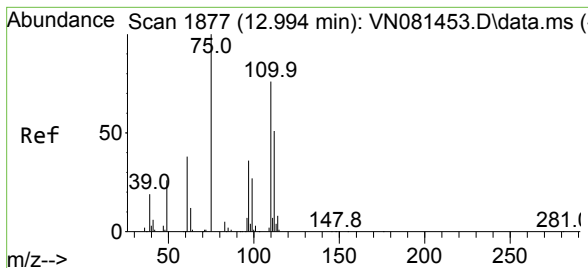
Ion Ratio Lower Upper

152 100

115 62.3 32.3 96.8

150 156.0 0.0 339.8

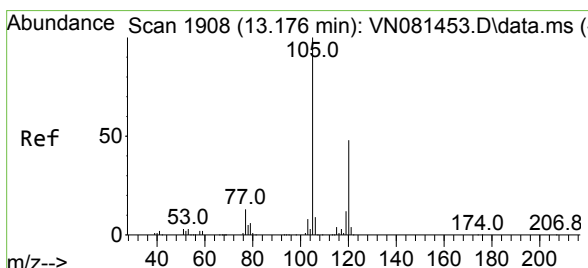
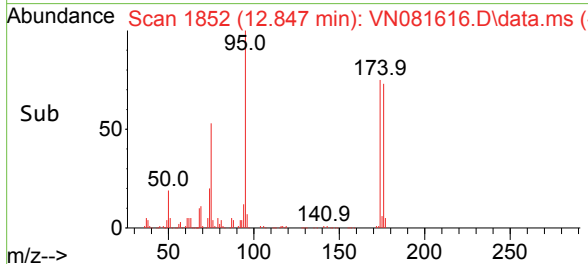
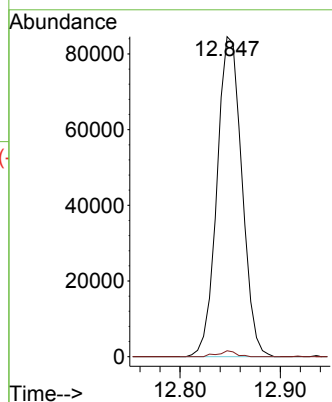
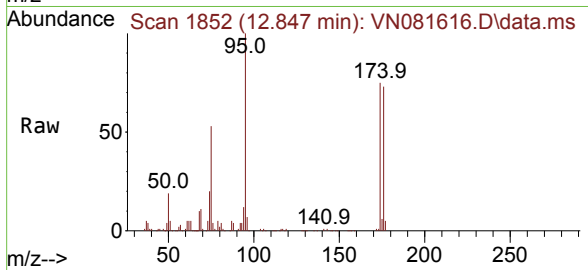




#76
 1,2,3-Trichloropropane
 Concen: 23.421 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN081616.D
 Acq: 29 Mar 2024 15:29

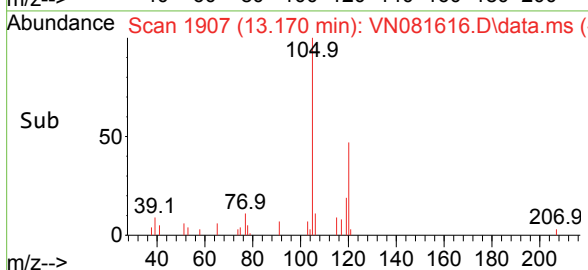
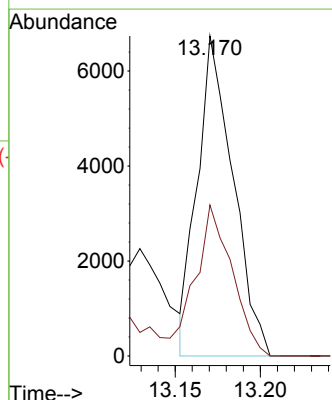
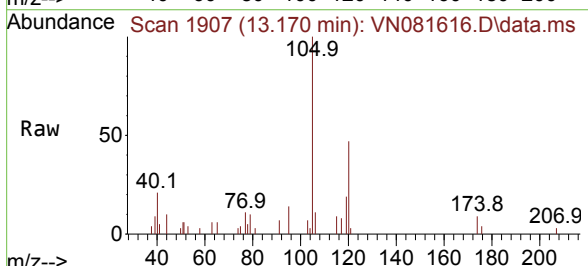
Instrument :
 MSVOA_N
 ClientSampleId :
 S-20

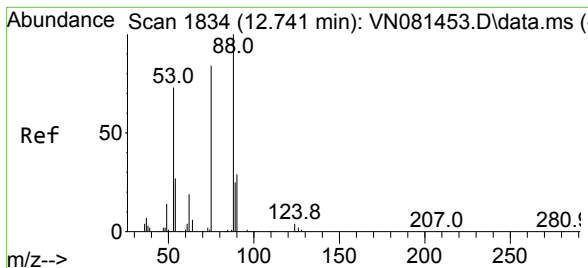
Tgt Ion: 75 Resp: 145809
 Ion Ratio Lower Upper
 75 100
 77 1.3 91.0 272.8#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.534 ug/l
 RT: 13.170 min Scan# 1907
 Delta R.T. -0.006 min
 Lab File: VN081616.D
 Acq: 29 Mar 2024 15:29

Tgt Ion: 105 Resp: 9792
 Ion Ratio Lower Upper
 105 100
 120 48.5 23.0 69.0

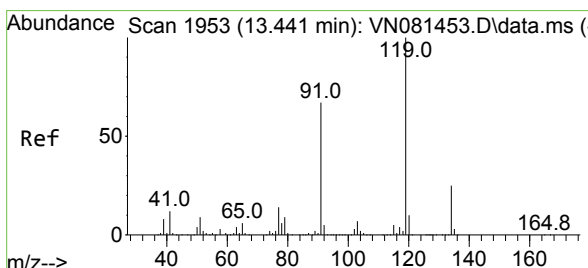
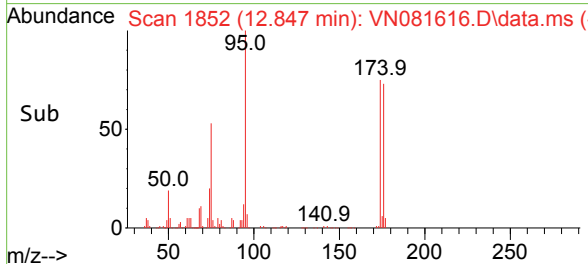
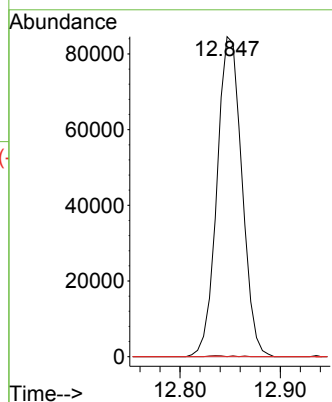
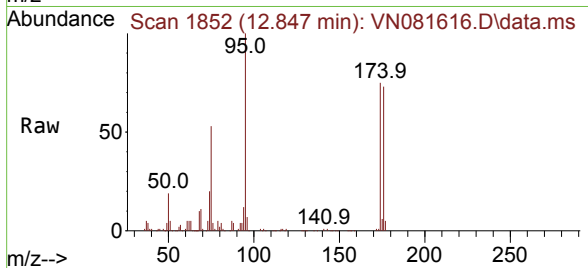




#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.292 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN081616.D
 Acq: 29 Mar 2024 15:29

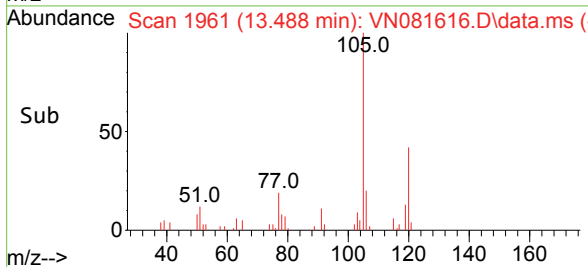
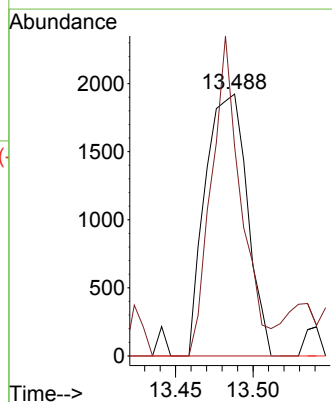
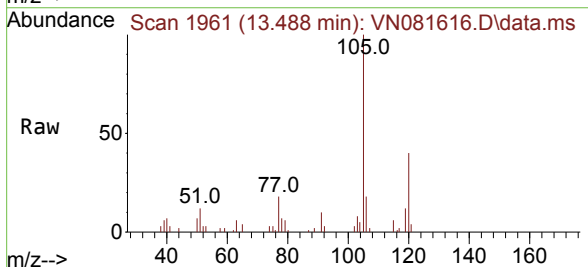
Instrument :
 MSVOA_N
 ClientSampleId :
 S-20

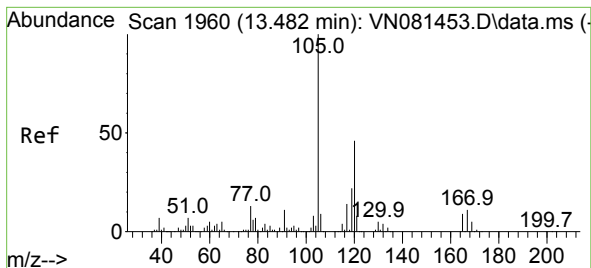
Tgt Ion: 75 Resp: 145809
 Ion Ratio Lower Upper
 75 100
 53 0.2 71.4 107.2#
 89 0.0 33.4 50.0#



#83
 tert-Butylbenzene
 Concen: 0.229 ug/l
 RT: 13.488 min Scan# 1961
 Delta R.T. 0.047 min
 Lab File: VN081616.D
 Acq: 29 Mar 2024 15:29

Tgt Ion: 119 Resp: 3618
 Ion Ratio Lower Upper
 119 100
 91 86.5 36.8 110.4
 134 0.0 12.4 37.4#





#84

1,2,4-Trimethylbenzene

Concen: 1.656 ug/l

RT: 13.488 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN081616.D

Acq: 29 Mar 2024 15:29

Instrument :

MSVOA_N

ClientSampleId :

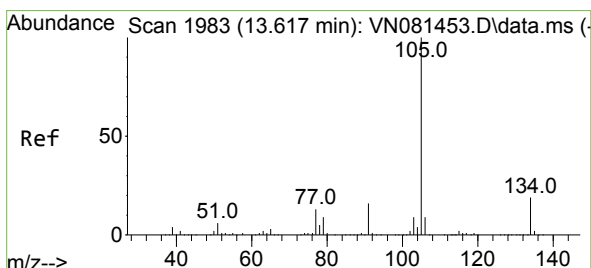
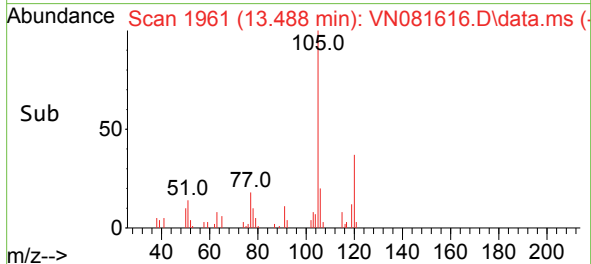
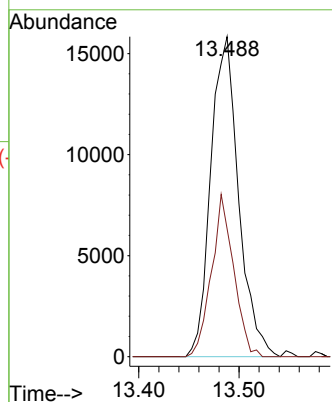
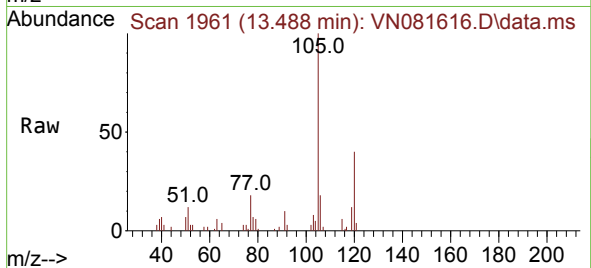
S-20

Tgt Ion:105 Resp: 30489

Ion Ratio Lower Upper

105 100

120 40.5 20.9 62.7



#85

sec-Butylbenzene

Concen: 1.350 ug/l

RT: 13.488 min Scan# 1961

Delta R.T. -0.129 min

Lab File: VN081616.D

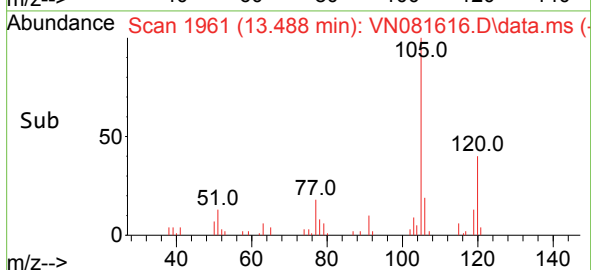
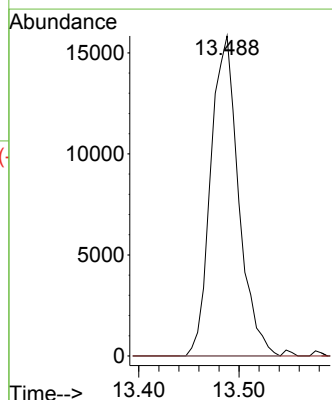
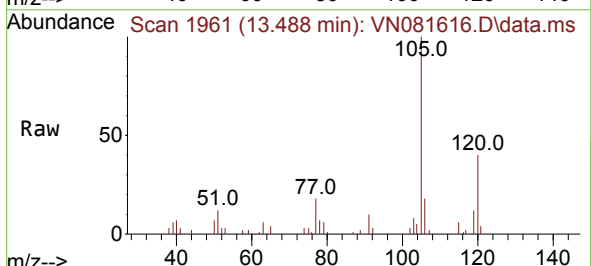
Acq: 29 Mar 2024 15:29

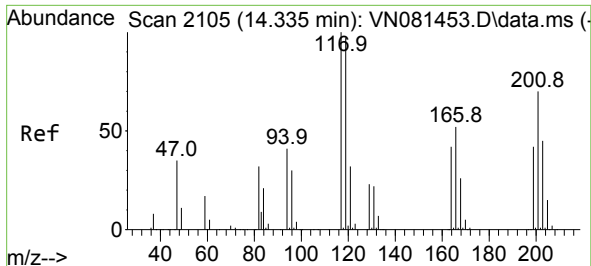
Tgt Ion:105 Resp: 30489

Ion Ratio Lower Upper

105 100

134 0.0 8.6 25.8#

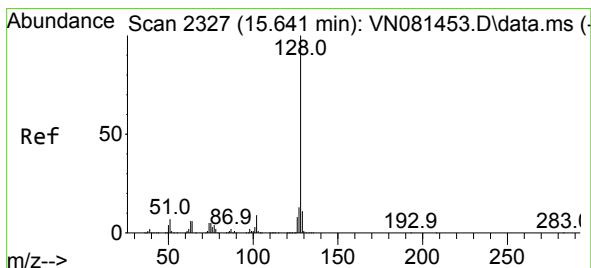
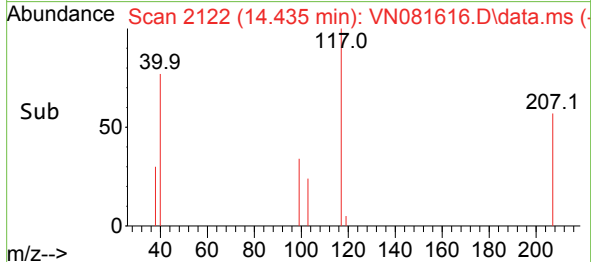
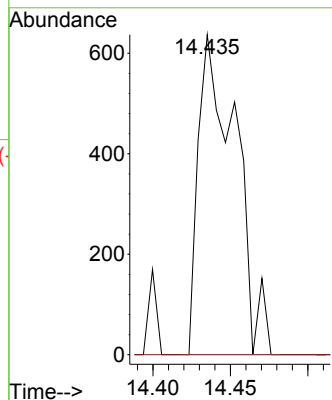
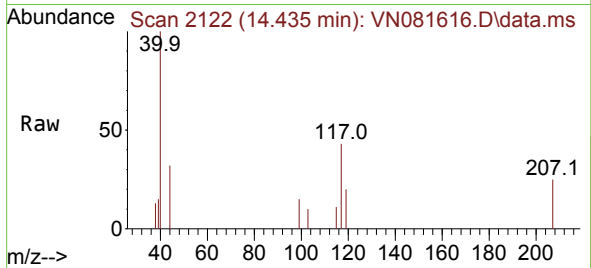




#90
Hexachloroethane
Concen: 0.304 ug/l
RT: 14.435 min Scan# 2105
Delta R.T. 0.100 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

Instrument :
MSVOA_N
ClientSampleId :
S-20

Tgt Ion:117 Resp: 1064
Ion Ratio Lower Upper
117 100
201 0.0 30.0 90.0#



#95
Naphthalene
Concen: 18.122 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN081616.D
Acq: 29 Mar 2024 15:29

Tgt Ion:128 Resp: 329035
Ion Ratio Lower Upper
128 100
127 12.9 10.0 15.0
129 10.6 8.7 13.1

