

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022124\
 Data File : VN081116.D
 Acq On : 21 Feb 2024 13:35
 Operator : JC\MD
 Sample : P1540-01 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 AUD-1323

Quant Time: Feb 22 04:46:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021624W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 16 23:45:20 2024
 Response via : Initial Calibration

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

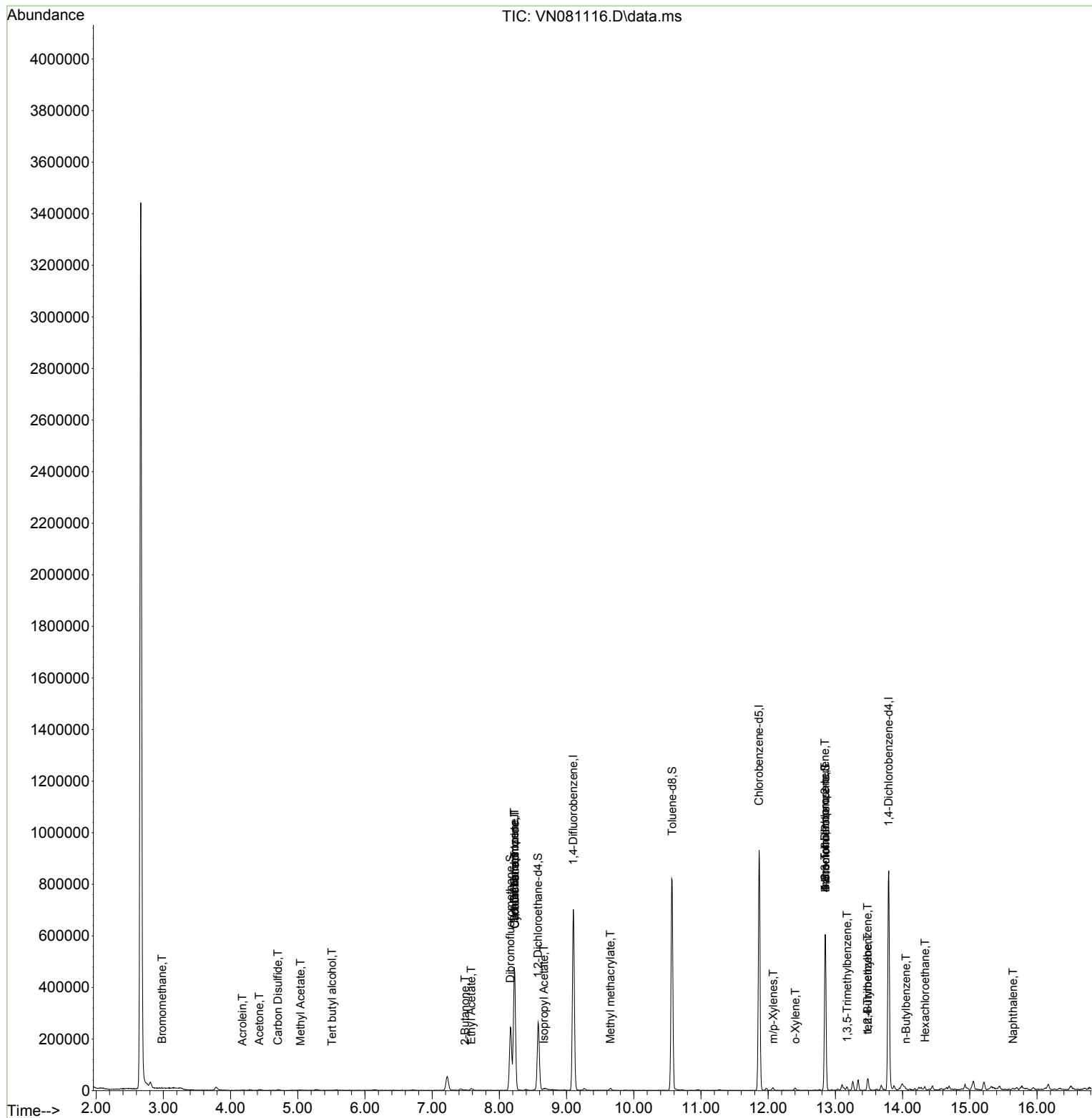
Internal Standards						
1) Pentafluorobenzene	8.224	168	329425	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	609830	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	528035	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	217599	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	210175	52.052	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.100%			
35) Dibromofluoromethane	8.165	113	171830	49.829	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.660%			
50) Toluene-d8	10.571	98	580026	47.358	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.720%			
62) 4-Bromofluorobenzene	12.853	95	216080	46.952	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 93.900%			
Target Compounds					Qvalue	
3) Chloromethane	2.371	50	1387	Below Cal		99
5) Bromomethane	2.983	94	1484	0.442 ug/l #		78
6) Chloroethane	3.130	64	152	Below Cal #		42
11) Tert butyl alcohol	5.512	59	161	0.217 ug/l #		72
13) Acrolein	4.177	56	1399	3.515 ug/l #		24
16) Acetone	4.430	43	4544	2.860 ug/l #		69
17) Carbon Disulfide	4.706	76	2199	0.212 ug/l #		78
18) Methyl Acetate	5.042	43	2128	0.549 ug/l #		70
20) Methylene Chloride	5.289	84	1655	Below Cal #		47
25) 2-Butanone	7.488	43	3127	1.218 ug/l #		86
31) Cyclohexane	8.230	56	8035	1.152 ug/l #		21
36) 1,1-Dichloropropene	8.224	75	30199	5.112 ug/l #		46
37) Ethyl Acetate	7.582	43	4428	0.830 ug/l #		12
38) Carbon Tetrachloride	8.230	117	37559	6.284 ug/l #		17
43) Isopropyl Acetate	8.665	43	2694	0.289 ug/l #		57
48) Methyl methacrylate	9.653	41	2529	0.583 ug/l #		48
49) 1,4-Dioxane	9.688	88	110	Below Cal #		18
68) m/p-Xylenes	12.076	106	3311	0.422 ug/l		87
69) o-Xylene	12.406	106	2531	0.326 ug/l		64
71) Bromoform	12.853	173	1890	0.726 ug/l #		1
76) 1,2,3-Trichloropropane	12.847	75	111238	22.500 ug/l #		1
80) 1,3,5-Trimethylbenzene	13.176	105	5910	0.383 ug/l		88
81) trans-1,4-Dichloro-2-b...	12.847	75	111238	57.912 ug/l #		14
83) tert-Butylbenzene	13.482	119	3931	0.295 ug/l #		78
84) 1,2,4-Trimethylbenzene	13.482	105	25607	1.665 ug/l		93
89) n-Butylbenzene	14.053	91	3782	0.282 ug/l		85
90) Hexachloroethane	14.335	117	772	0.303 ug/l #		21
95) Naphthalene	15.647	128	5050	0.319 ug/l #		93

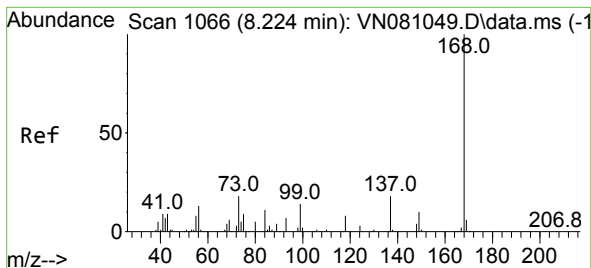
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022124\
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QLast Update : Fri Feb 16 23:45:20 2024
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VN081116.D

Acq: 21 Feb 2024 13:35

Instrument :

MSVOA_N

ClientSampleId :

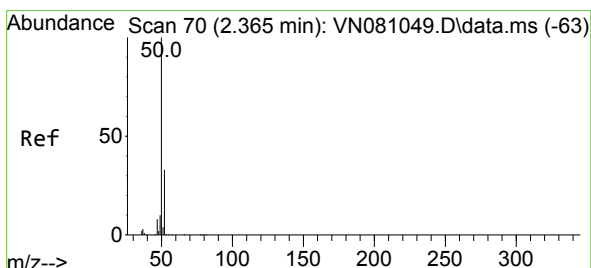
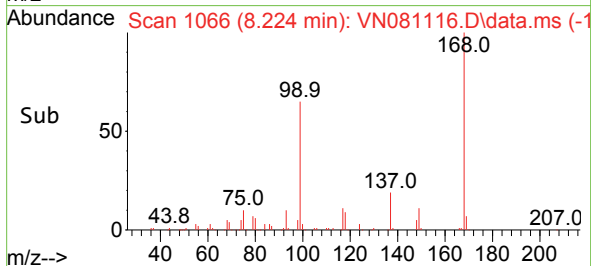
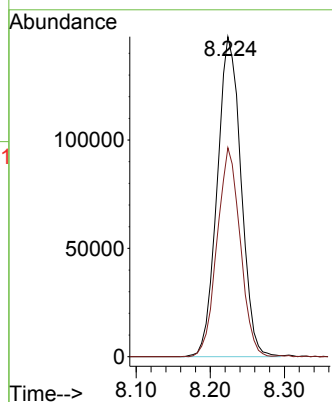
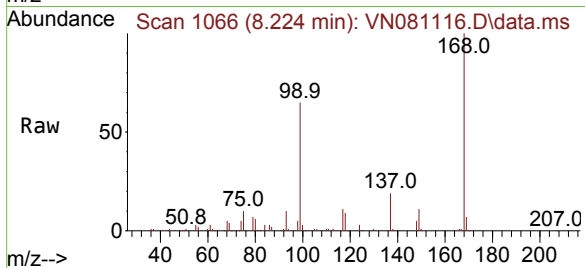
AUD-1323

Tgt Ion:168 Resp: 329425

Ion Ratio Lower Upper

168 100

99 65.3 59.9 89.9



#3

Chloromethane

Concen: Below Cal

RT: 2.371 min Scan# 71

Delta R.T. 0.006 min

Lab File: VN081116.D

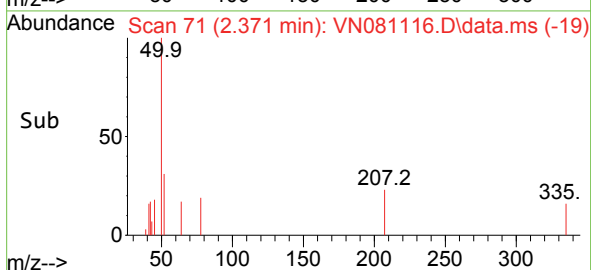
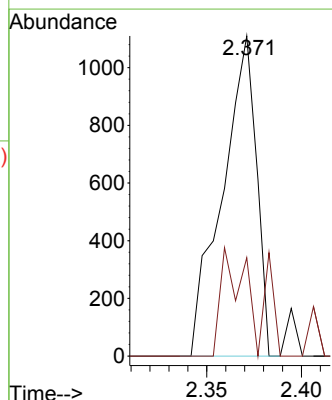
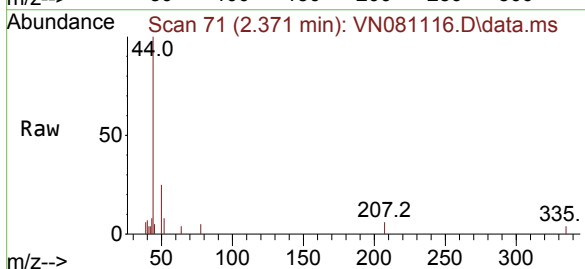
Acq: 21 Feb 2024 13:35

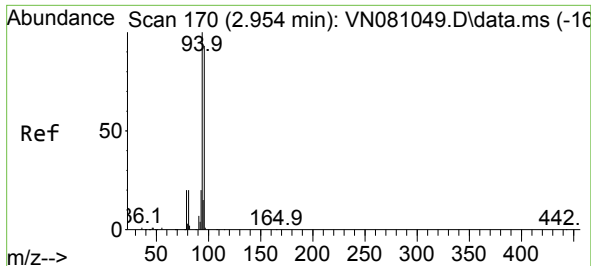
Tgt Ion: 50 Resp: 1387

Ion Ratio Lower Upper

50 100

52 30.7 25.0 37.4

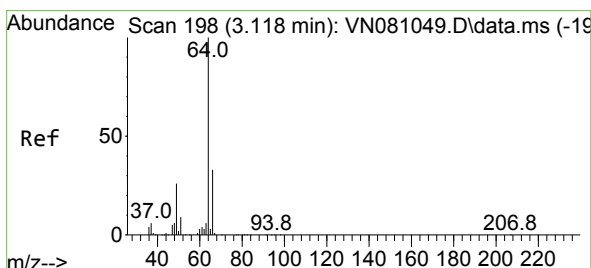
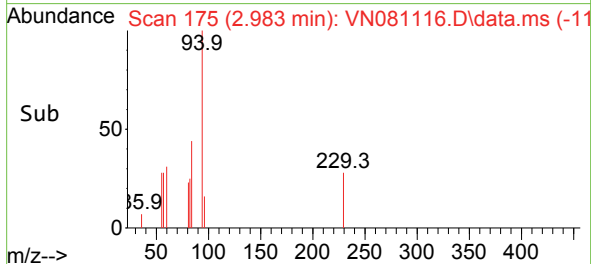
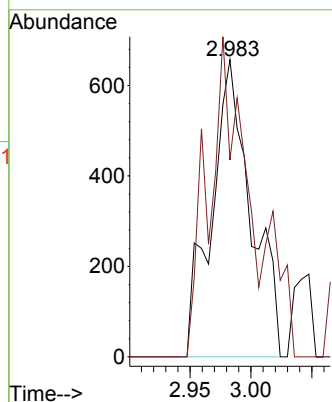
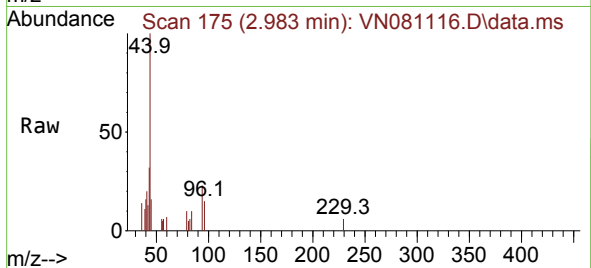




#5
Bromomethane
Concen: 0.442 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

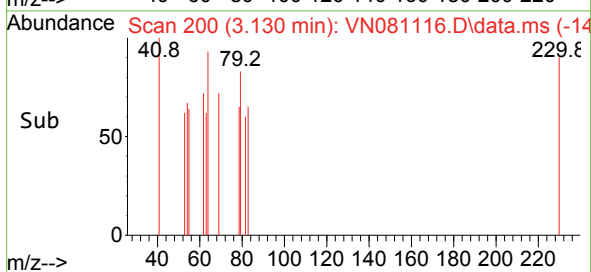
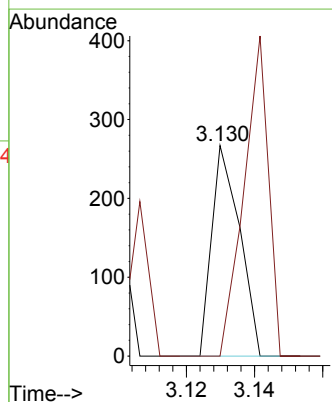
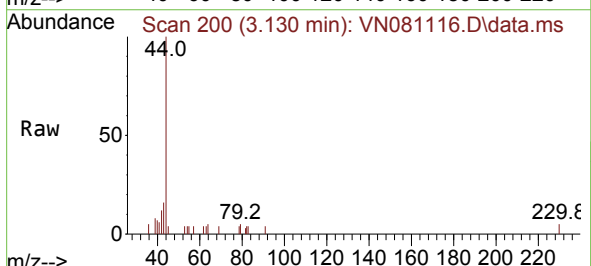
Instrument :
MSVOA_N
ClientSampleId :
AUD-1323

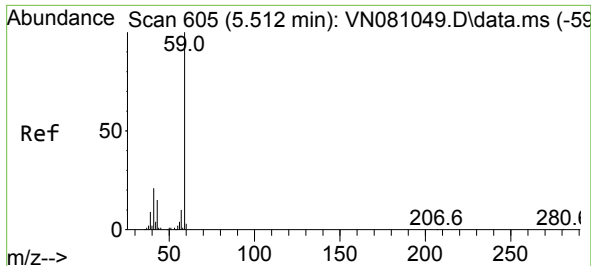
Tgt Ion: 94 Resp: 1484
Ion Ratio Lower Upper
94 100
96 66.2 69.2 103.8#



#6
Chloroethane
Concen: Below Cal
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

Tgt Ion: 64 Resp: 152
Ion Ratio Lower Upper
64 100
66 0.0 26.4 39.6#

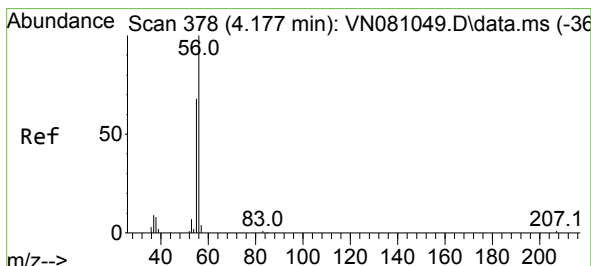
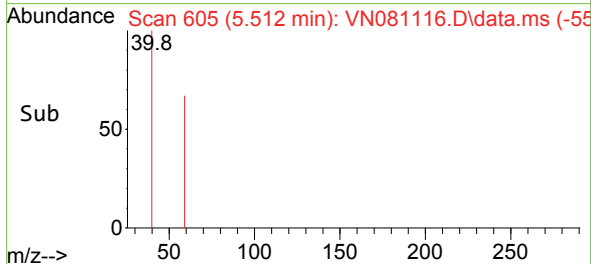
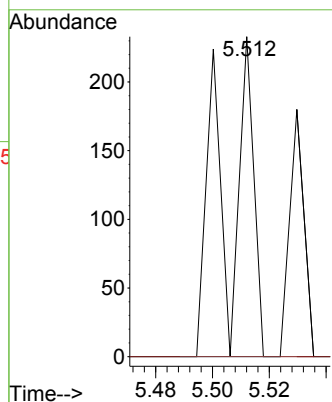
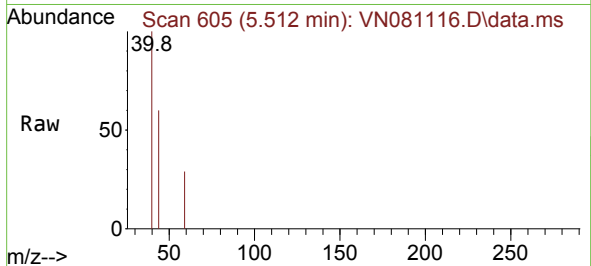




#11
Tert butyl alcohol
Concen: 0.217 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

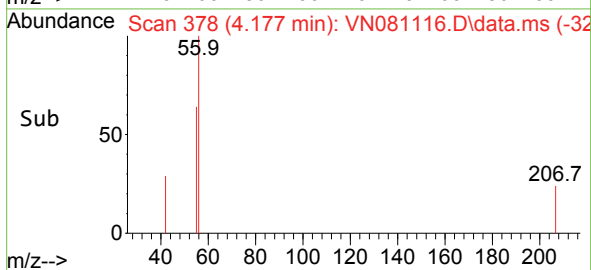
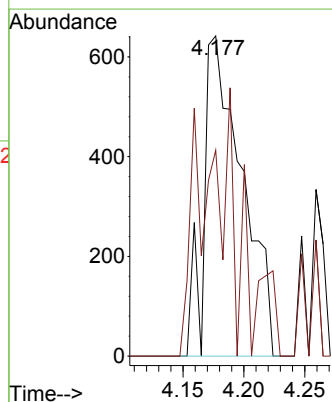
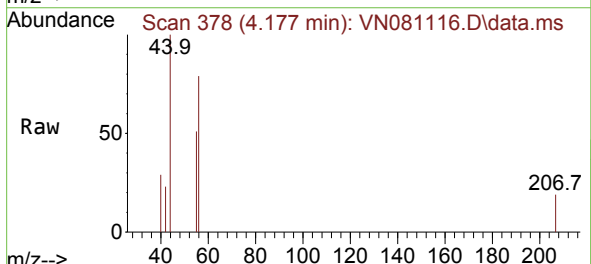
Instrument :
MSVOA_N
ClientSampleId :
AUD-1323

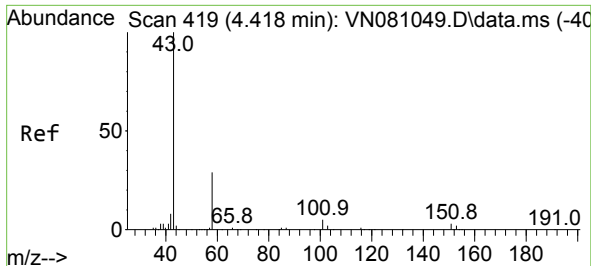
Tgt Ion: 59 Resp: 161
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 3.515 ug/l
RT: 4.177 min Scan# 378
Delta R.T. -0.000 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

Tgt Ion: 56 Resp: 1399
Ion Ratio Lower Upper
56 100
55 6.9 55.3 82.9#

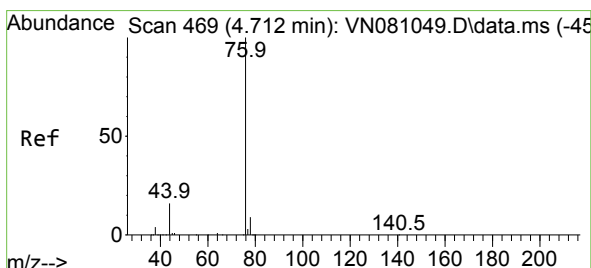
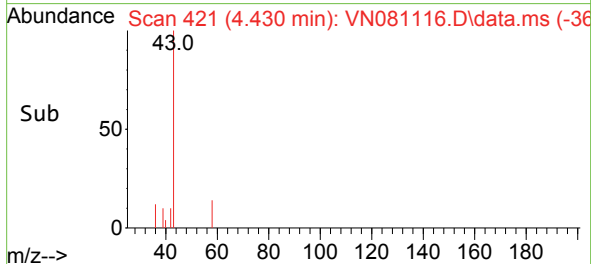
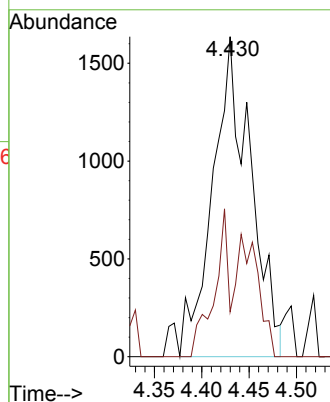
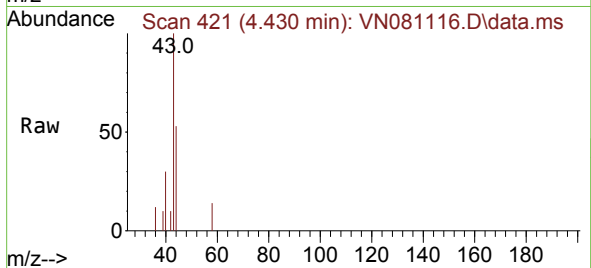




#16
Acetone
Concen: 2.860 ug/l
RT: 4.430 min Scan# 419
Delta R.T. 0.012 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

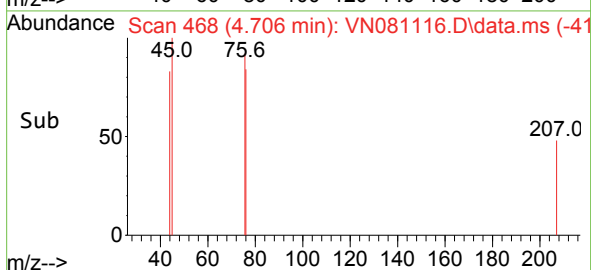
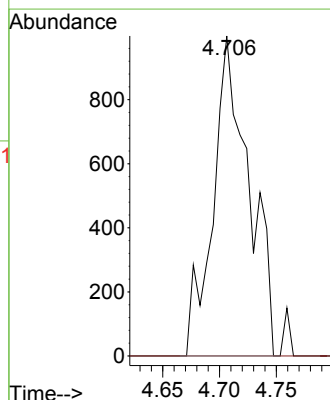
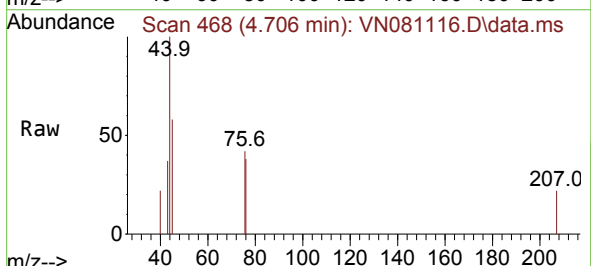
Instrument :
MSVOA_N
ClientSampleId :
AUD-1323

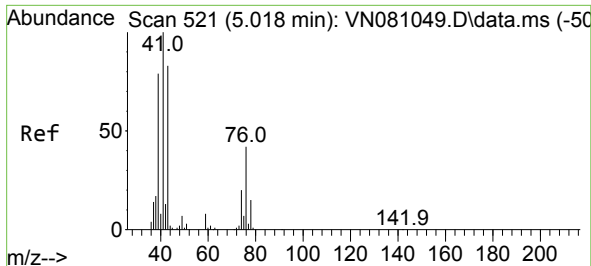
Tgt Ion: 43 Resp: 4544
Ion Ratio Lower Upper
43 100
58 14.1 24.8 37.2#



#17
Carbon Disulfide
Concen: 0.212 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.006 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

Tgt Ion: 76 Resp: 2199
Ion Ratio Lower Upper
76 100
78 0.0 6.3 9.5#

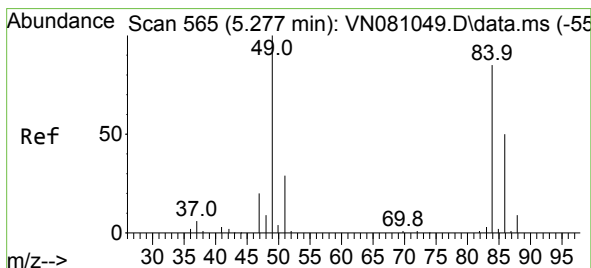
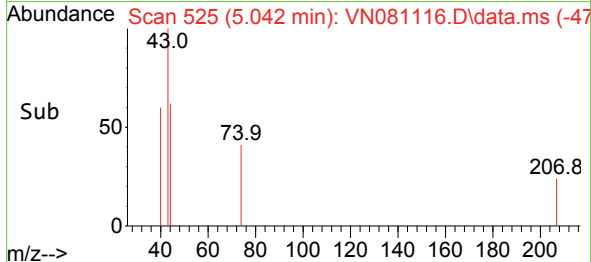
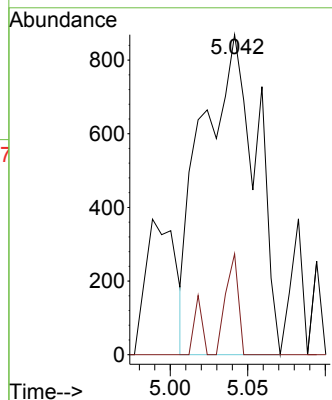
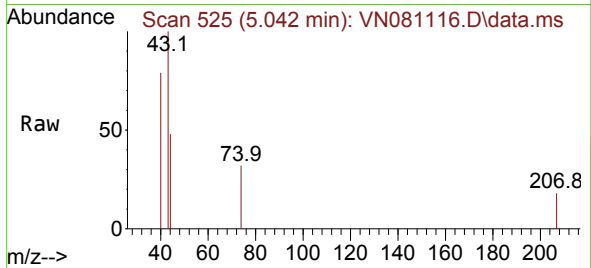




#18
Methyl Acetate
Concen: 0.549 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.023 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

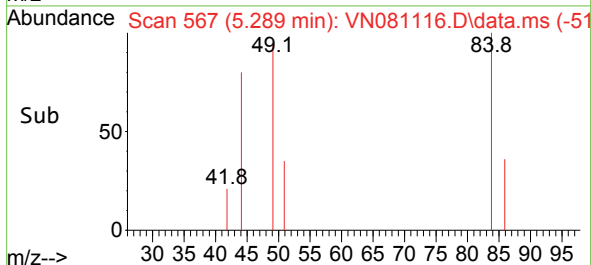
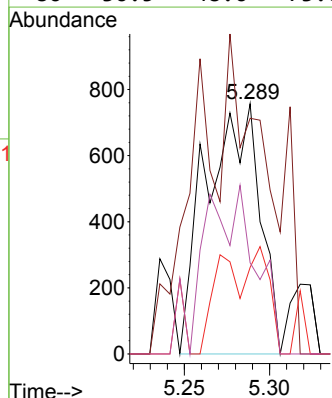
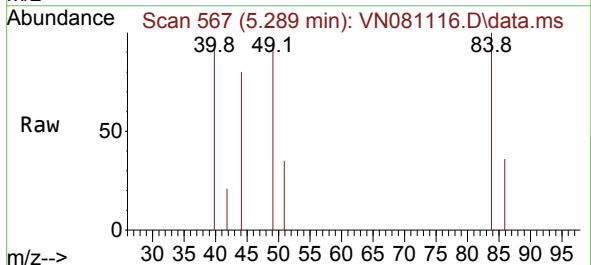
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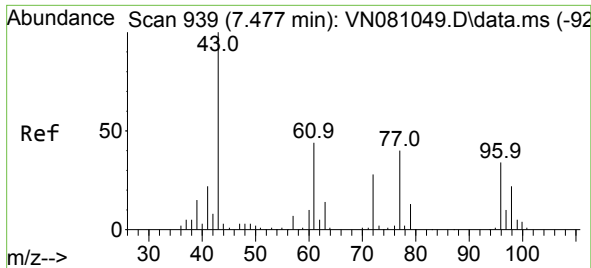
Tgt Ion: 43 Resp: 2128
Ion Ratio Lower Upper
43 100
74 7.3 17.3 25.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.289 min Scan# 567
Delta R.T. 0.012 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

Tgt Ion: 84 Resp: 1655
Ion Ratio Lower Upper
84 100
49 45.4 108.1 162.1#
51 34.6 32.9 49.3
86 36.5 48.6 73.0#

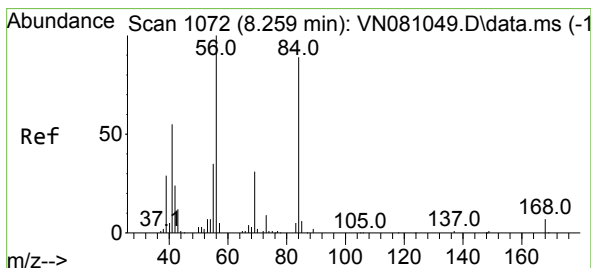
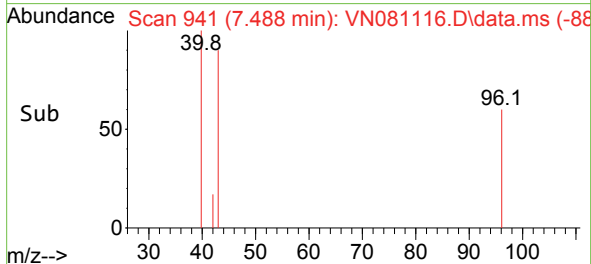
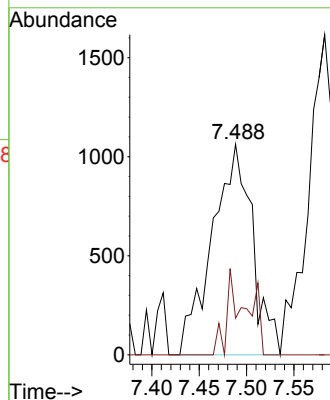
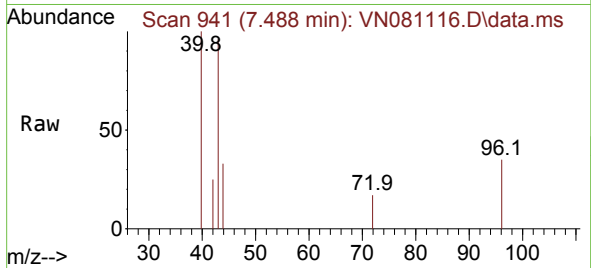




#25
2-Butanone
Concen: 1.218 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

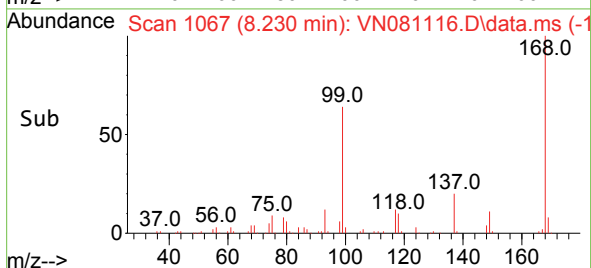
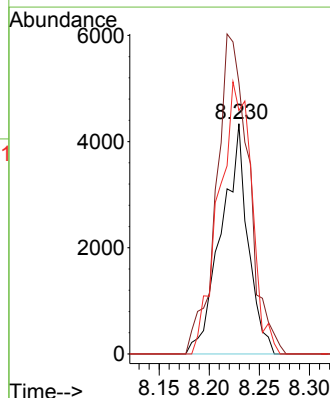
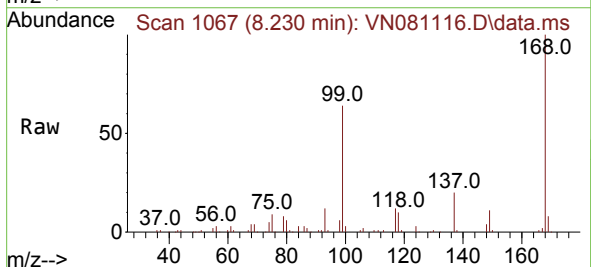
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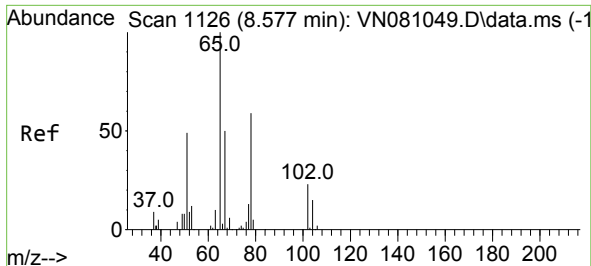
Tgt Ion: 43 Resp: 3127
Ion Ratio Lower Upper
43 100
72 17.4 19.5 29.3#



#31
Cyclohexane
Concen: 1.152 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.030 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

Tgt Ion: 56 Resp: 8035
Ion Ratio Lower Upper
56 100
69 117.8 20.1 30.1#
84 105.8 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 52.052 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN081116.D

Acq: 21 Feb 2024 13:35

Instrument :

MSVOA_N

ClientSampleId :

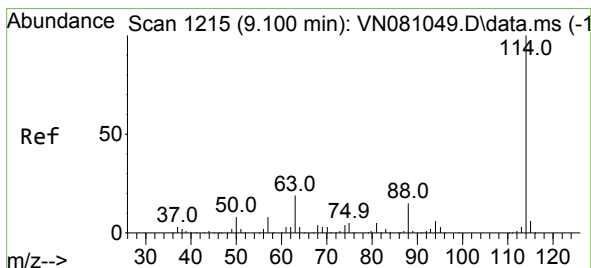
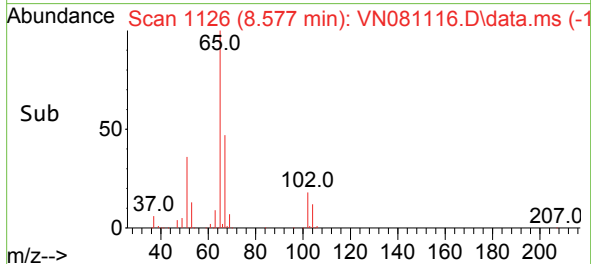
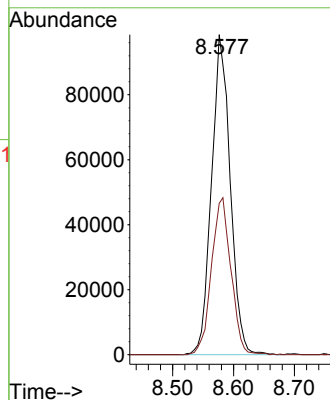
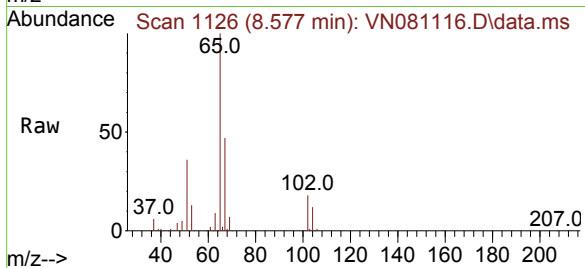
AUD-1323

Tgt Ion: 65 Resp: 210175

Ion Ratio Lower Upper

65 100

67 51.1 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN081116.D

Acq: 21 Feb 2024 13:35

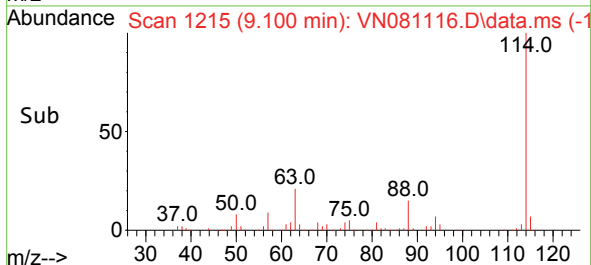
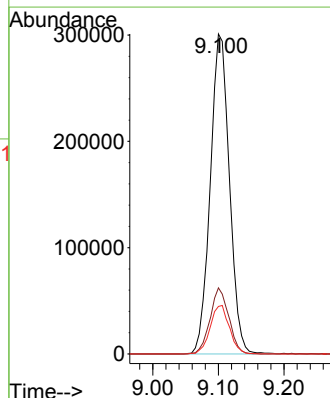
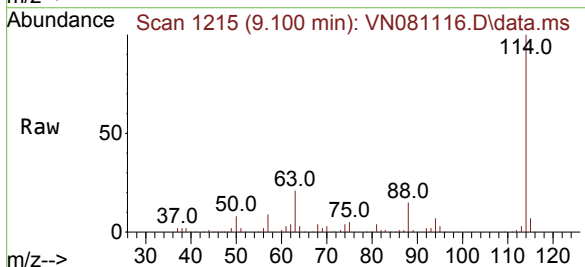
Tgt Ion: 114 Resp: 609830

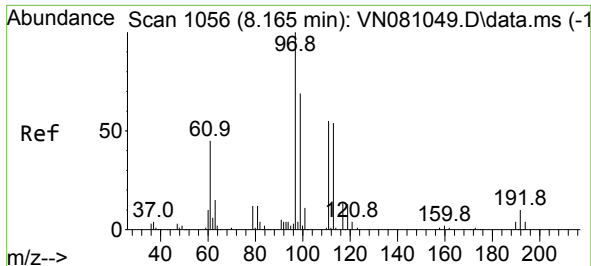
Ion Ratio Lower Upper

114 100

63 20.6 0.0 48.0

88 14.9 0.0 34.8

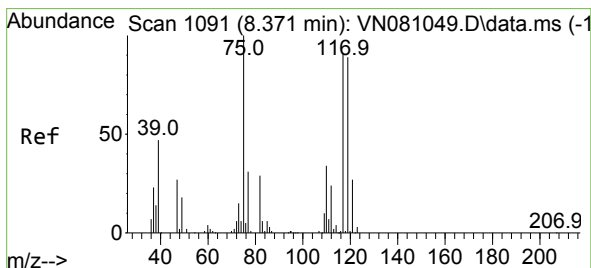
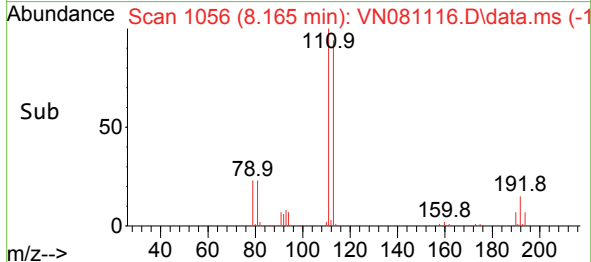
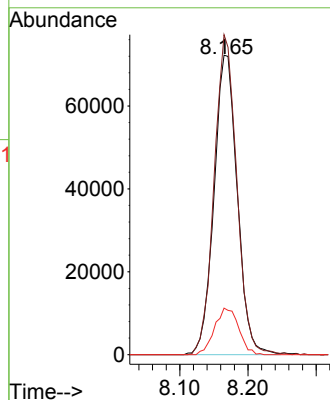
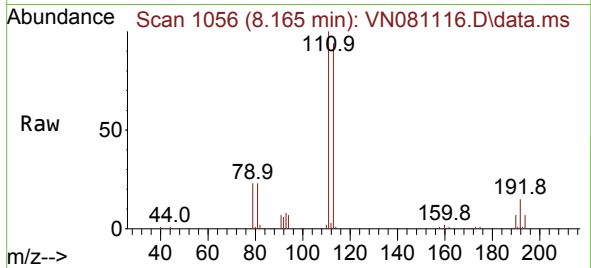




#35
Dibromofluoromethane
Concen: 49.829 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

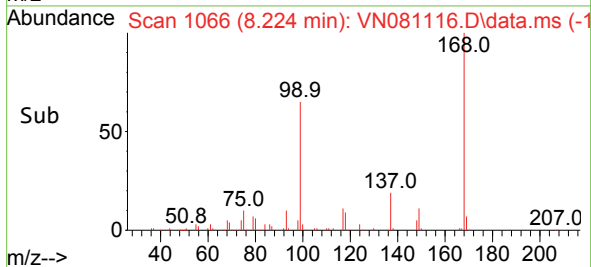
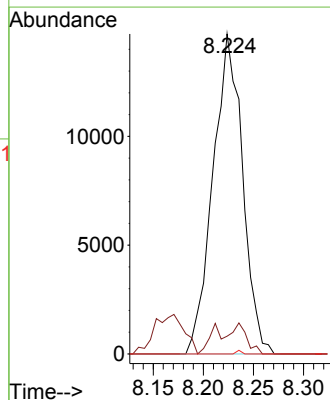
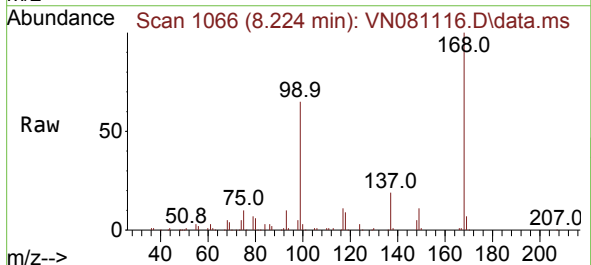
Instrument :
MSVOA_N
ClientSampleId :
AUD-1323

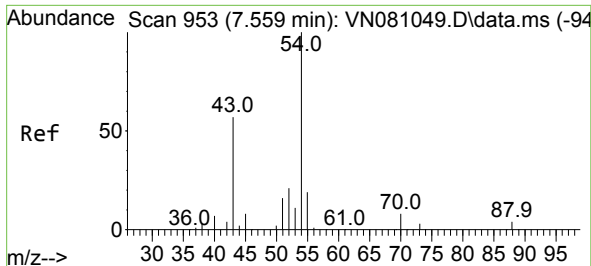
Tgt Ion:113 Resp: 171830
Ion Ratio Lower Upper
113 100
111 103.7 82.2 123.4
192 16.1 12.5 18.7



#36
1,1-Dichloropropene
Concen: 5.112 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

Tgt Ion: 75 Resp: 30199
Ion Ratio Lower Upper
75 100
110 3.6 16.0 48.0#
77 0.0 25.8 38.6#





#37

Ethyl Acetate

Concen: 0.830 ug/l

RT: 7.582 min Scan# 91

Delta R.T. 0.023 min

Lab File: VN081116.D

Acq: 21 Feb 2024 13:35

Instrument :

MSVOA_N

ClientSampleId :

AUD-1323

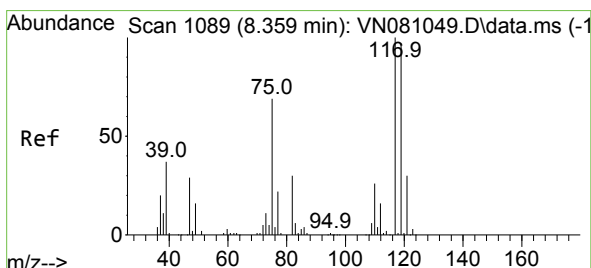
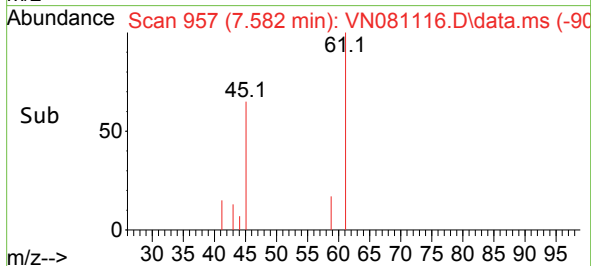
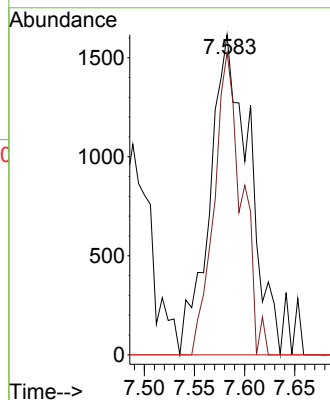
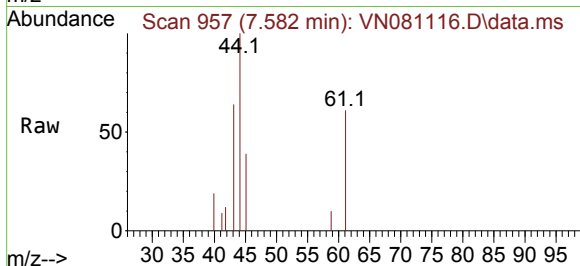
Tgt Ion: 43 Resp: 4428

Ion Ratio Lower Upper

43 100

61 67.0 10.6 15.8#

70 0.0 8.0 12.0#



#38

Carbon Tetrachloride

Concen: 6.284 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.130 min

Lab File: VN081116.D

Acq: 21 Feb 2024 13:35

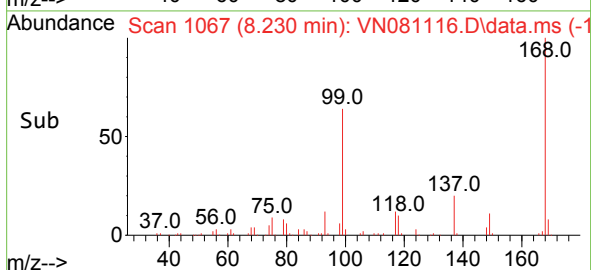
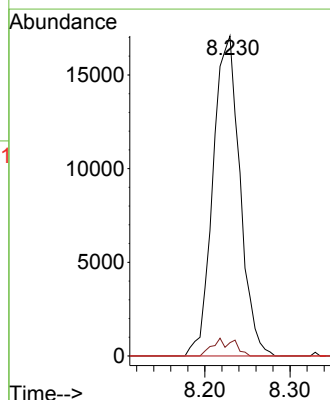
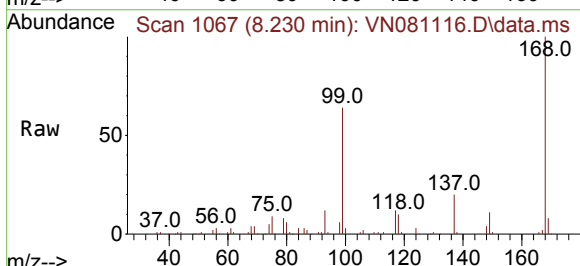
Tgt Ion: 117 Resp: 37559

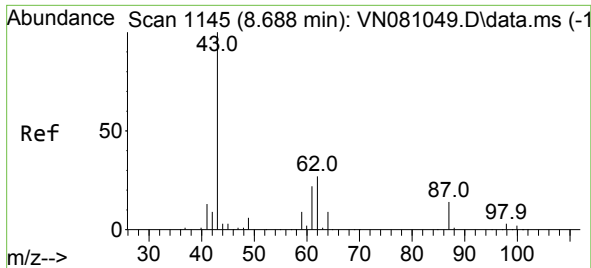
Ion Ratio Lower Upper

117 100

119 4.2 73.4 110.2#

121 0.0 24.4 36.6#

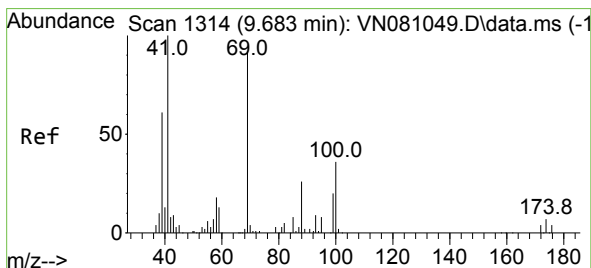
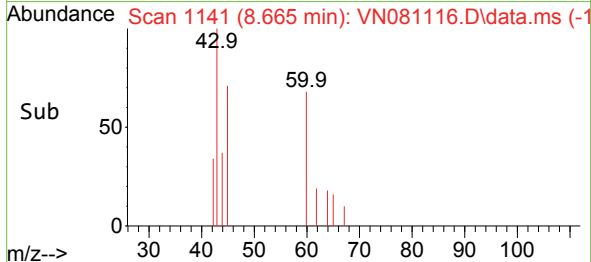
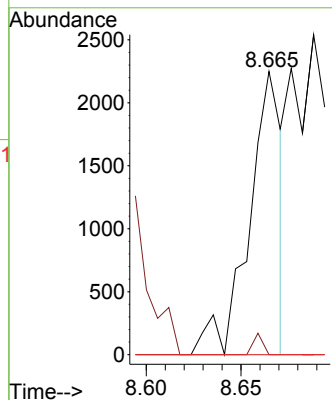
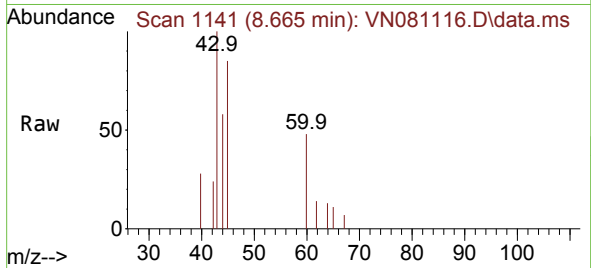




#43
Isopropyl Acetate
Concen: 0.289 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.024 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

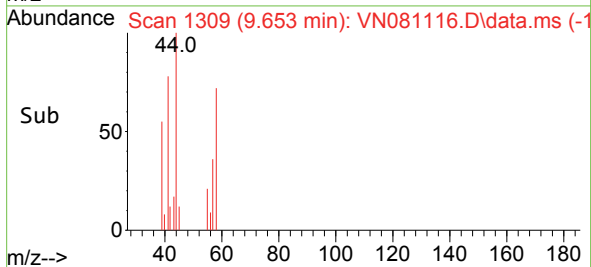
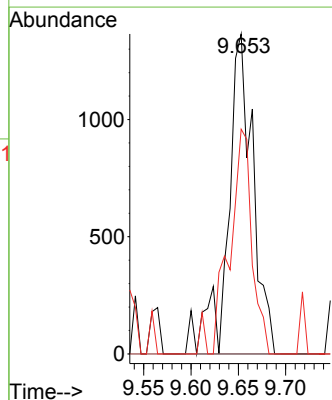
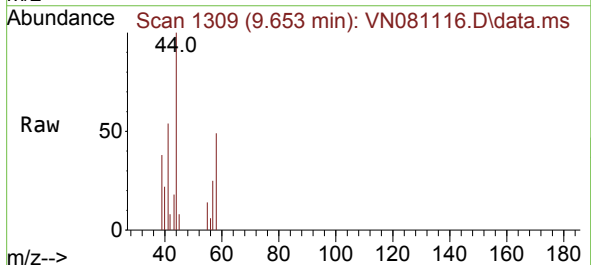
Instrument :
MSVOA_N
ClientSampleId :
AUD-1323

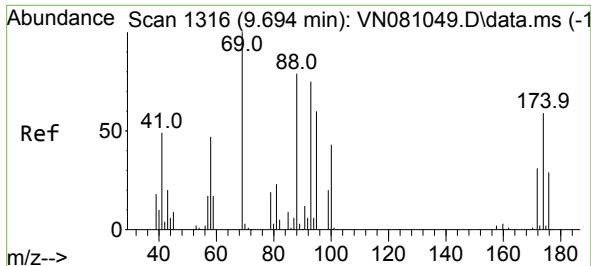
Tgt Ion: 43 Resp: 2694
Ion Ratio Lower Upper
43 100
61 0.0 19.9 29.9#
87 0.0 9.0 13.6#



#48
Methyl methacrylate
Concen: 0.583 ug/l
RT: 9.653 min Scan# 1309
Delta R.T. -0.030 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

Tgt Ion: 41 Resp: 2529
Ion Ratio Lower Upper
41 100
69 0.0 62.2 93.2#
39 61.4 47.6 71.4





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.688 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN081116.D

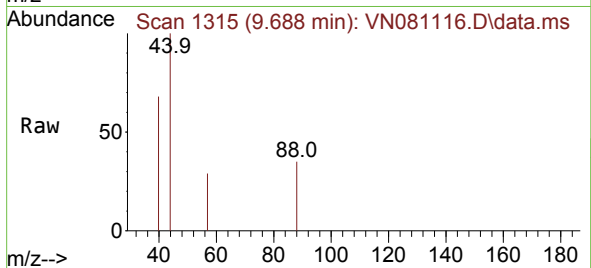
Acq: 21 Feb 2024 13:35

Instrument :

MSVOA_N

ClientSampleId :

AUD-1323



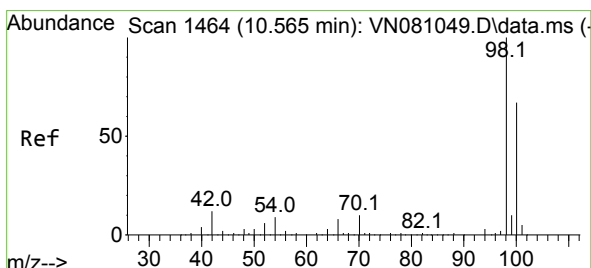
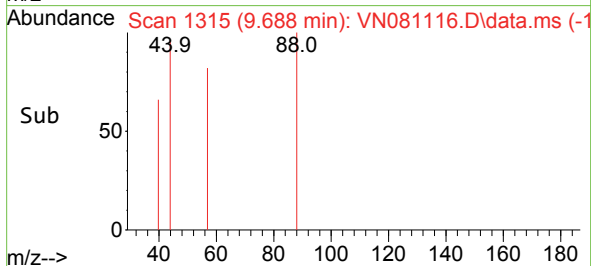
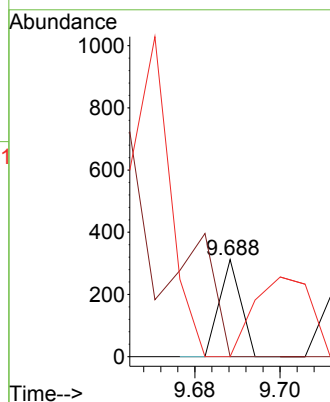
Tgt Ion: 88 Resp: 110

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

58 0.0 63.9 95.9#



#50

Toluene-d8

Concen: 47.358 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN081116.D

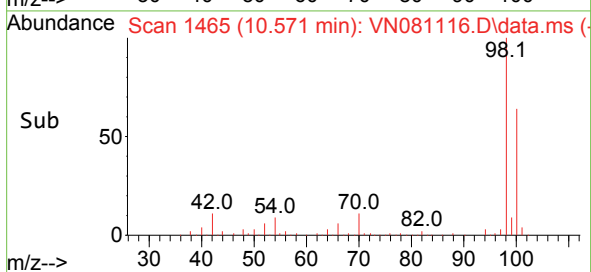
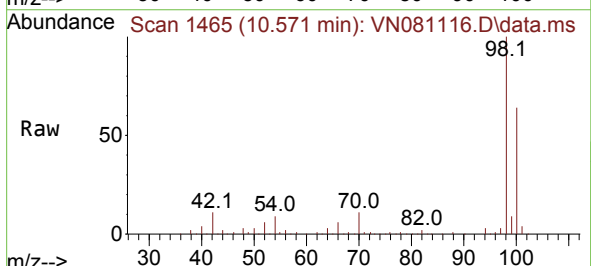
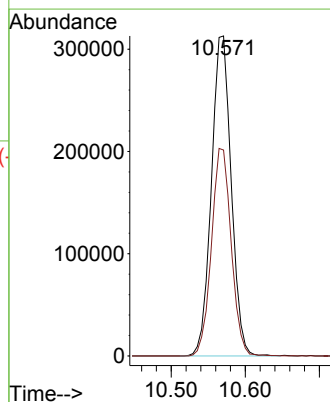
Acq: 21 Feb 2024 13:35

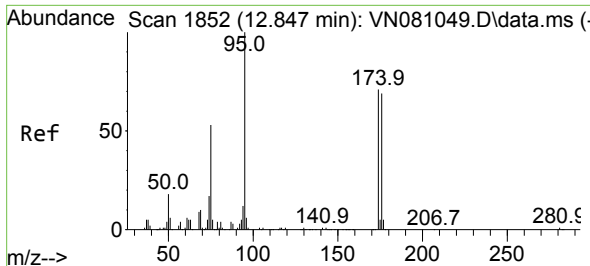
Tgt Ion: 98 Resp: 580026

Ion Ratio Lower Upper

98 100

100 64.7 51.4 77.0

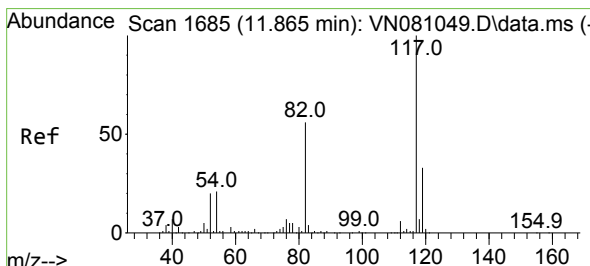
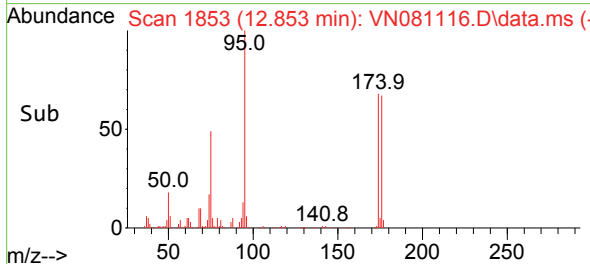
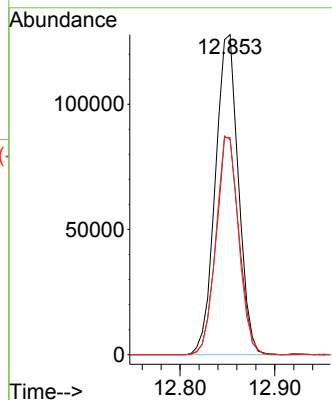
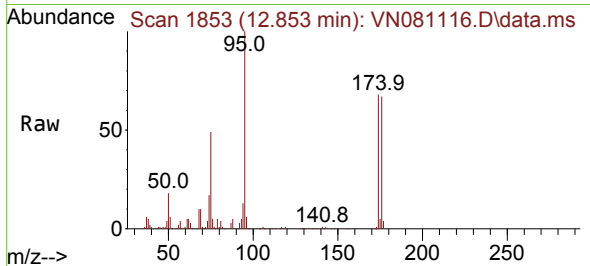




#62
4-Bromofluorobenzene
Concen: 46.952 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

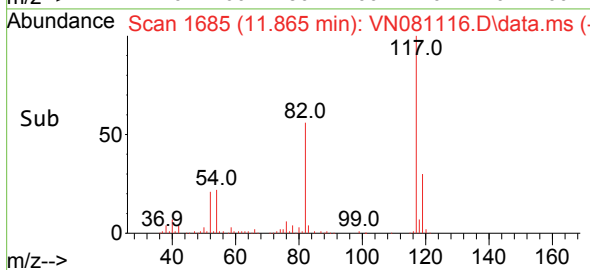
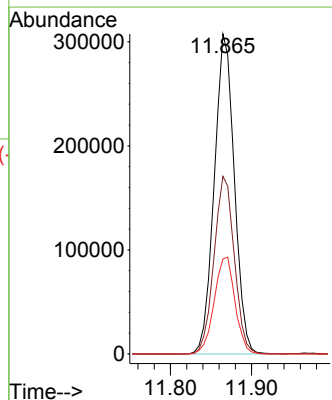
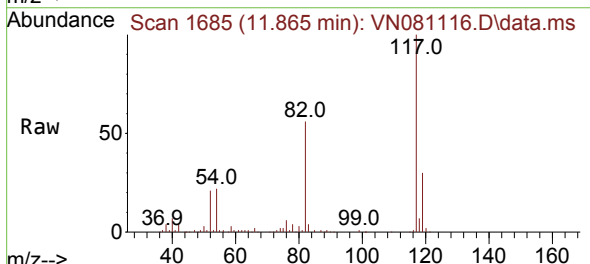
Instrument :
MSVOA_N
ClientSampleId :
AUD-1323

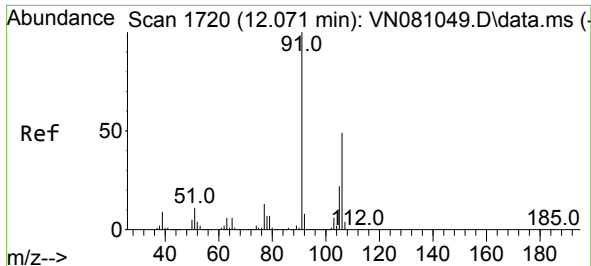
Tgt Ion: 95 Resp: 216080
Ion Ratio Lower Upper
95 100
174 67.7 0.0 120.4
176 67.4 0.0 121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

Tgt Ion: 117 Resp: 528035
Ion Ratio Lower Upper
117 100
82 55.5 52.7 79.1
119 29.7 25.3 37.9

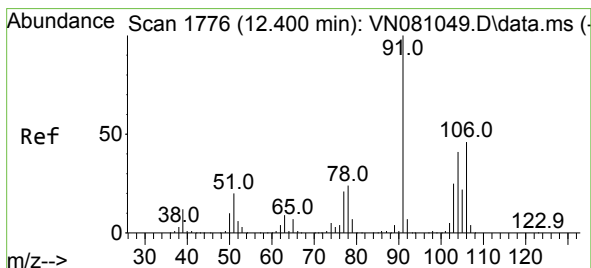
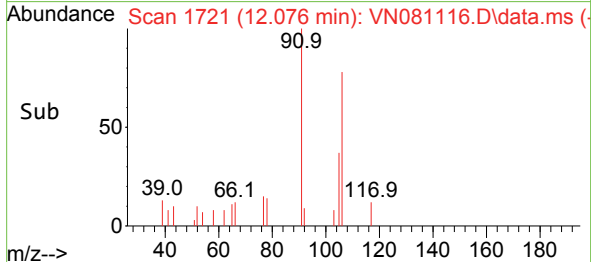
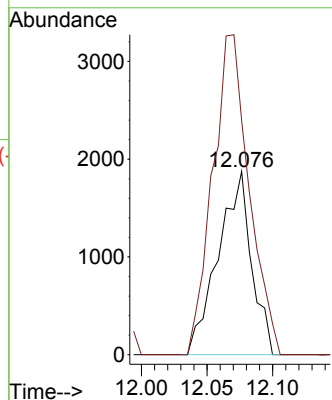
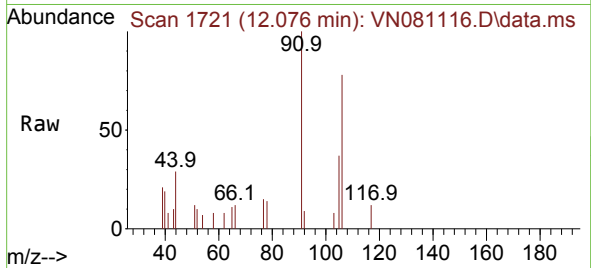




#68
m/p-Xylenes
Concen: 0.422 ug/l
RT: 12.076 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

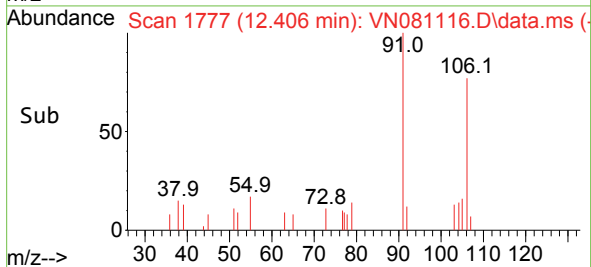
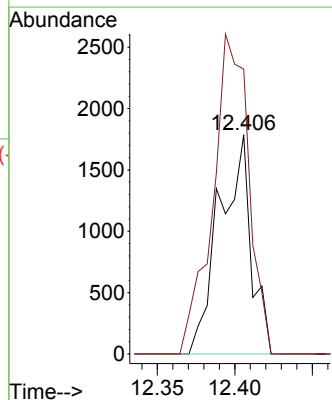
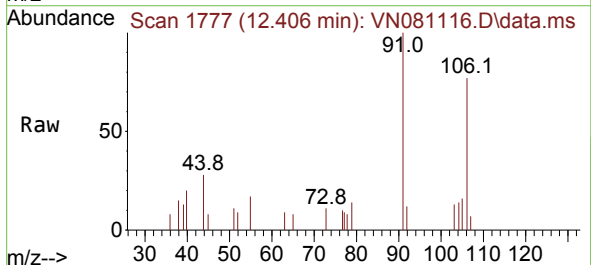
Instrument :
MSVOA_N
ClientSampleId :
AUD-1323

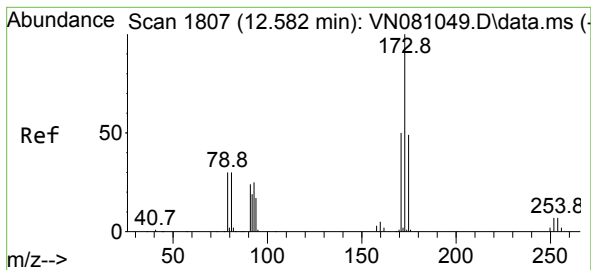
Tgt Ion:106 Resp: 3311
Ion Ratio Lower Upper
106 100
91 191.4 169.0 253.6



#69
o-Xylene
Concen: 0.326 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

Tgt Ion:106 Resp: 2531
Ion Ratio Lower Upper
106 100
91 165.6 112.1 336.3





#71

Bromoform

Concen: 0.726 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.270 min

Lab File: VN081116.D

Acq: 21 Feb 2024 13:35

Instrument :

MSVOA_N

ClientSampleId :

AUD-1323

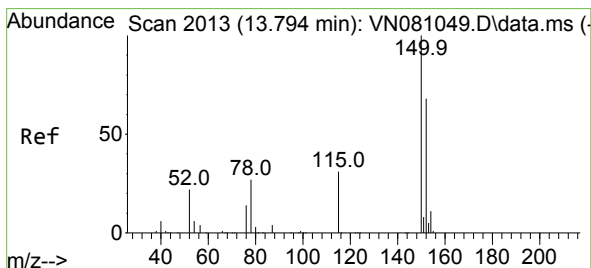
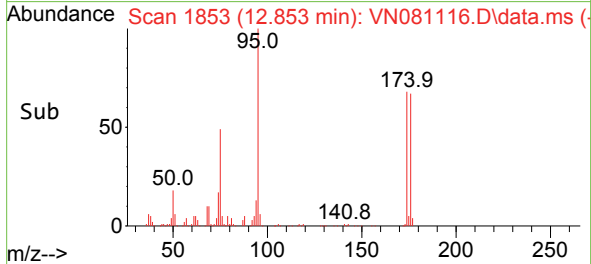
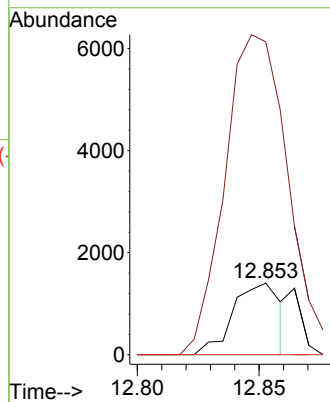
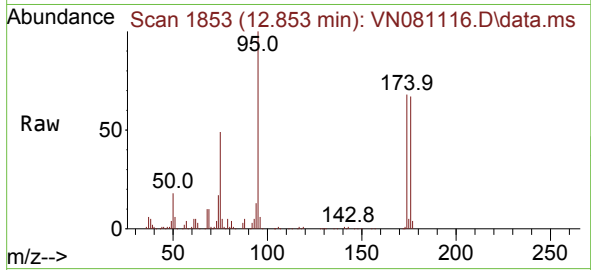
Tgt Ion:173 Resp: 1890

Ion Ratio Lower Upper

173 100

175 517.4 23.1 69.2#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN081116.D

Acq: 21 Feb 2024 13:35

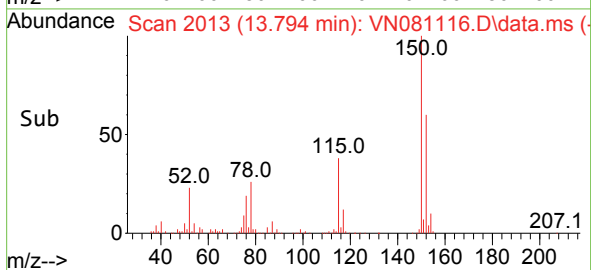
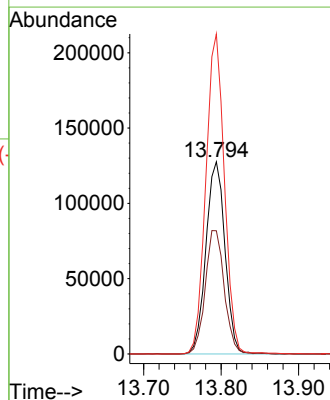
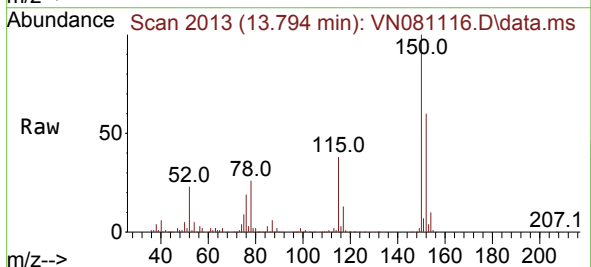
Tgt Ion:152 Resp: 217599

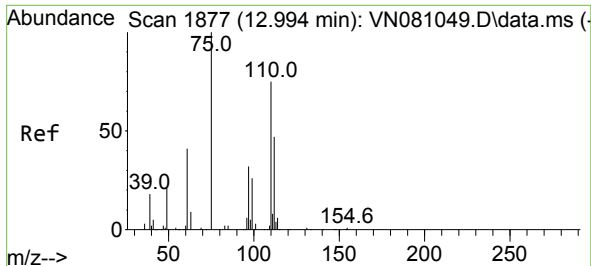
Ion Ratio Lower Upper

152 100

115 64.6 32.3 96.8

150 161.9 0.0 339.8

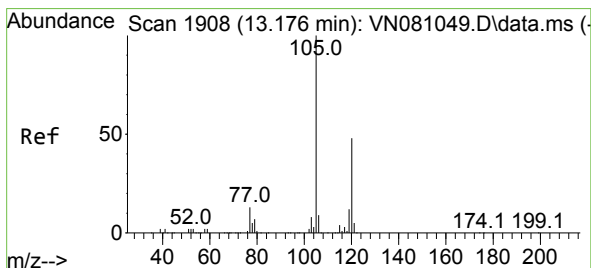
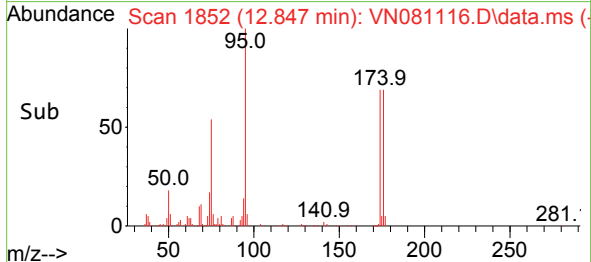
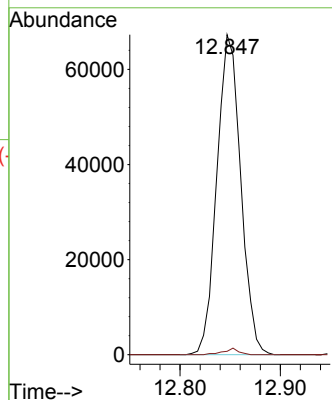
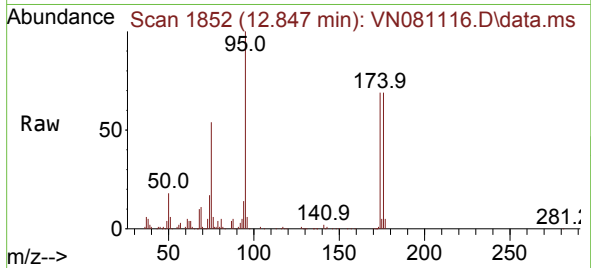




#76
1,2,3-Trichloropropane
Concen: 22.500 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

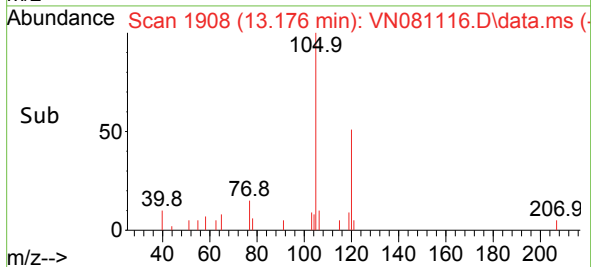
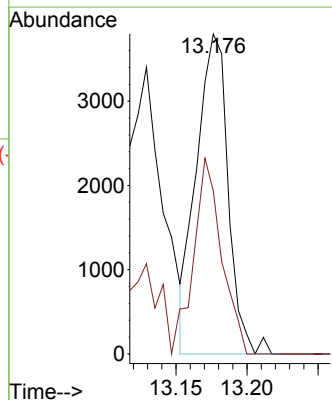
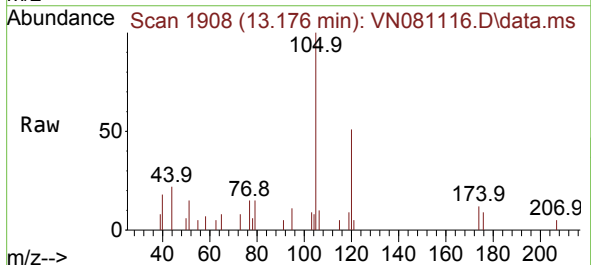
Instrument :
MSVOA_N
ClientSampleId :
AUD-1323

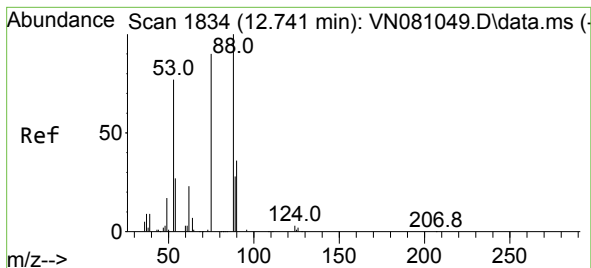
Tgt Ion: 75 Resp: 111238
Ion Ratio Lower Upper
75 100
77 1.3 91.0 272.8#



#80
1,3,5-Trimethylbenzene
Concen: 0.383 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. -0.000 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

Tgt Ion: 105 Resp: 5910
Ion Ratio Lower Upper
105 100
120 53.8 23.0 69.0

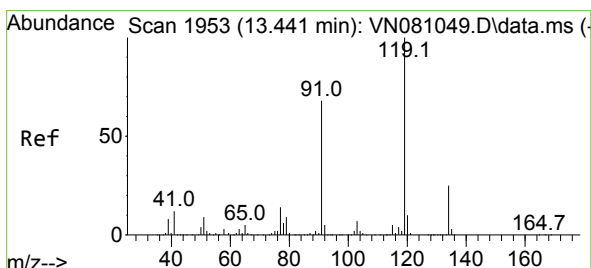
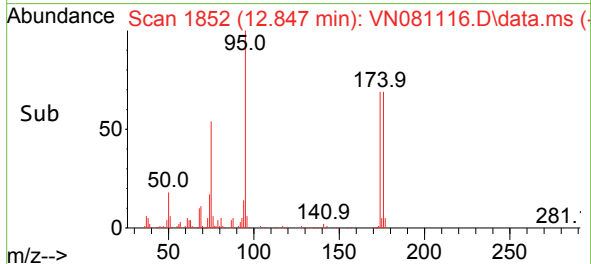
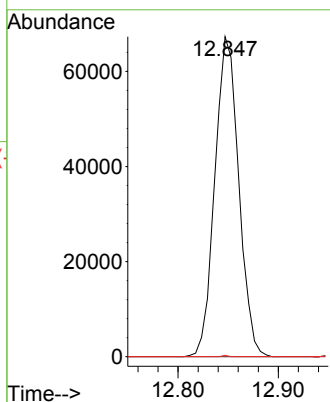
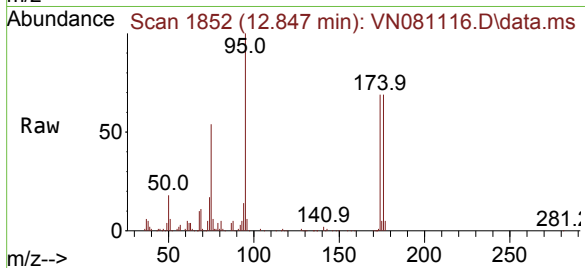




#81
trans-1,4-Dichloro-2-butene
Concen: 57.912 ug/l
RT: 12.847 min Scan# 111238
Delta R.T. 0.106 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

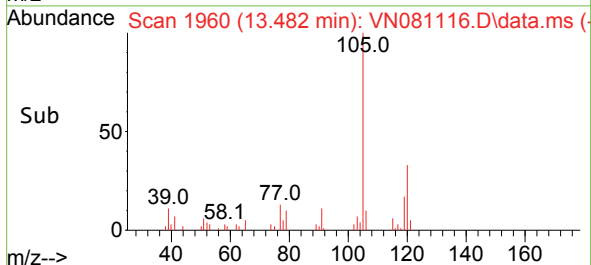
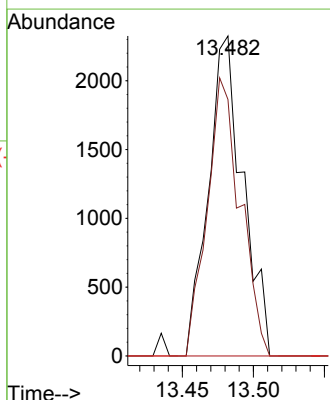
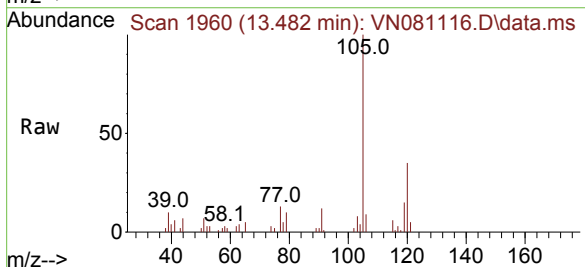
Instrument :
MSVOA_N
ClientSampleId :
AUD-1323

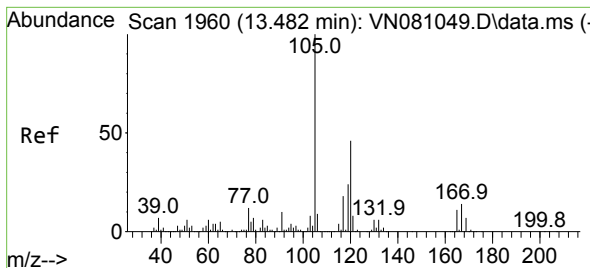
Tgt Ion: 75 Resp: 111238
Ion Ratio Lower Upper
75 100
53 0.0 71.4 107.2#
89 0.1 33.4 50.0#



#83
tert-Butylbenzene
Concen: 0.295 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.041 min
Lab File: VN081116.D
Acq: 21 Feb 2024 13:35

Tgt Ion: 119 Resp: 3931
Ion Ratio Lower Upper
119 100
91 83.8 36.8 110.4
134 0.0 12.4 37.4#





#84

1,2,4-Trimethylbenzene

Concen: 1.665 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.000 min

Lab File: VN081116.D

Acq: 21 Feb 2024 13:35

Instrument :

MSVOA_N

ClientSampleId :

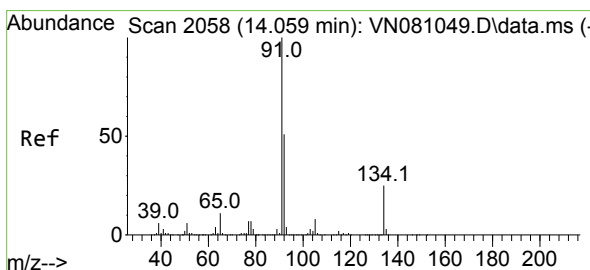
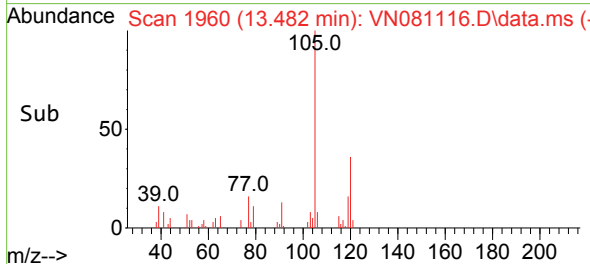
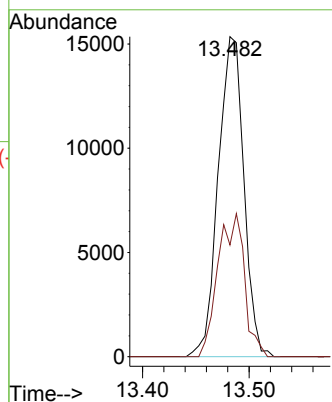
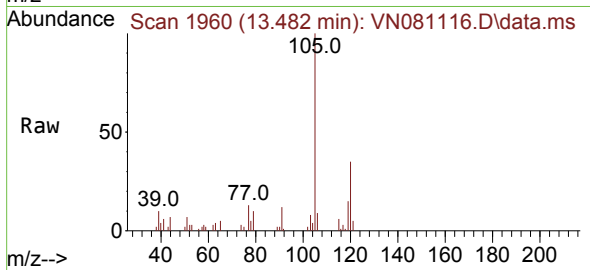
AUD-1323

Tgt Ion:105 Resp: 25607

Ion Ratio Lower Upper

105 100

120 46.2 20.9 62.7



#89

n-Butylbenzene

Concen: 0.282 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.006 min

Lab File: VN081116.D

Acq: 21 Feb 2024 13:35

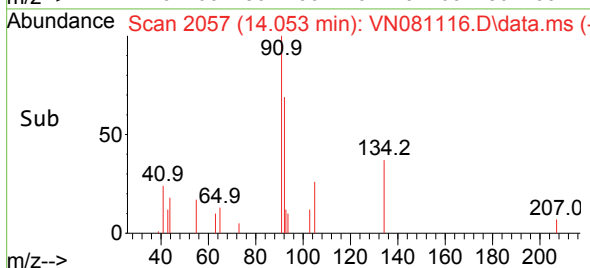
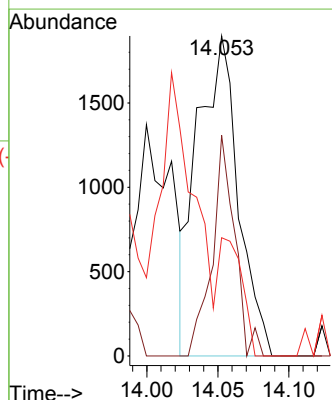
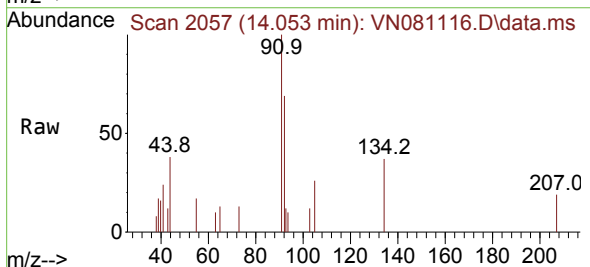
Tgt Ion: 91 Resp: 3782

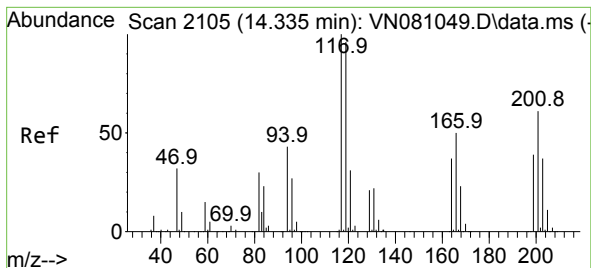
Ion Ratio Lower Upper

91 100

92 38.2 26.7 80.1

134 21.2 10.8 32.4





#90

Hexachloroethane

Concen: 0.303 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. -0.000 min

Lab File: VN081116.D

Acq: 21 Feb 2024 13:35

Instrument :

MSVOA_N

ClientSampleId :

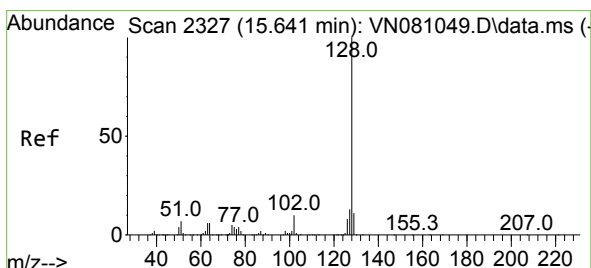
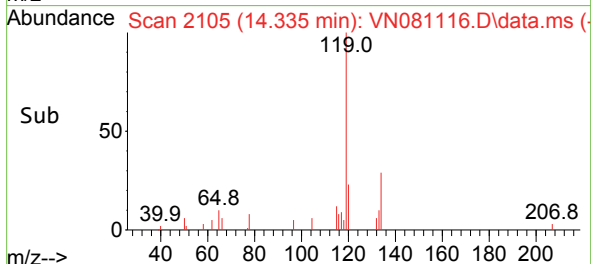
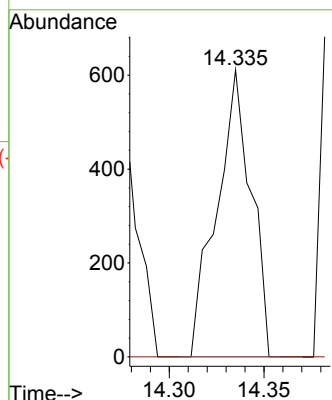
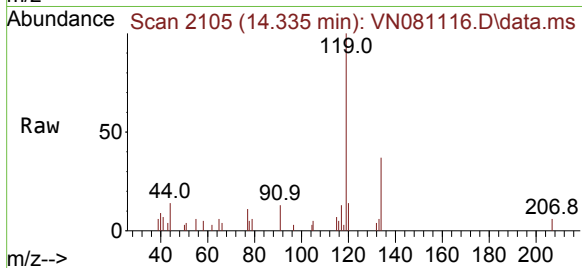
AUD-1323

Tgt Ion:117 Resp: 772

Ion Ratio Lower Upper

117 100

201 0.0 30.0 90.0#



#95

Naphthalene

Concen: 0.319 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. 0.006 min

Lab File: VN081116.D

Acq: 21 Feb 2024 13:35

Tgt Ion:128 Resp: 5050

Ion Ratio Lower Upper

128 100

127 15.9 10.0 15.0#

129 8.7 8.7 13.1#

