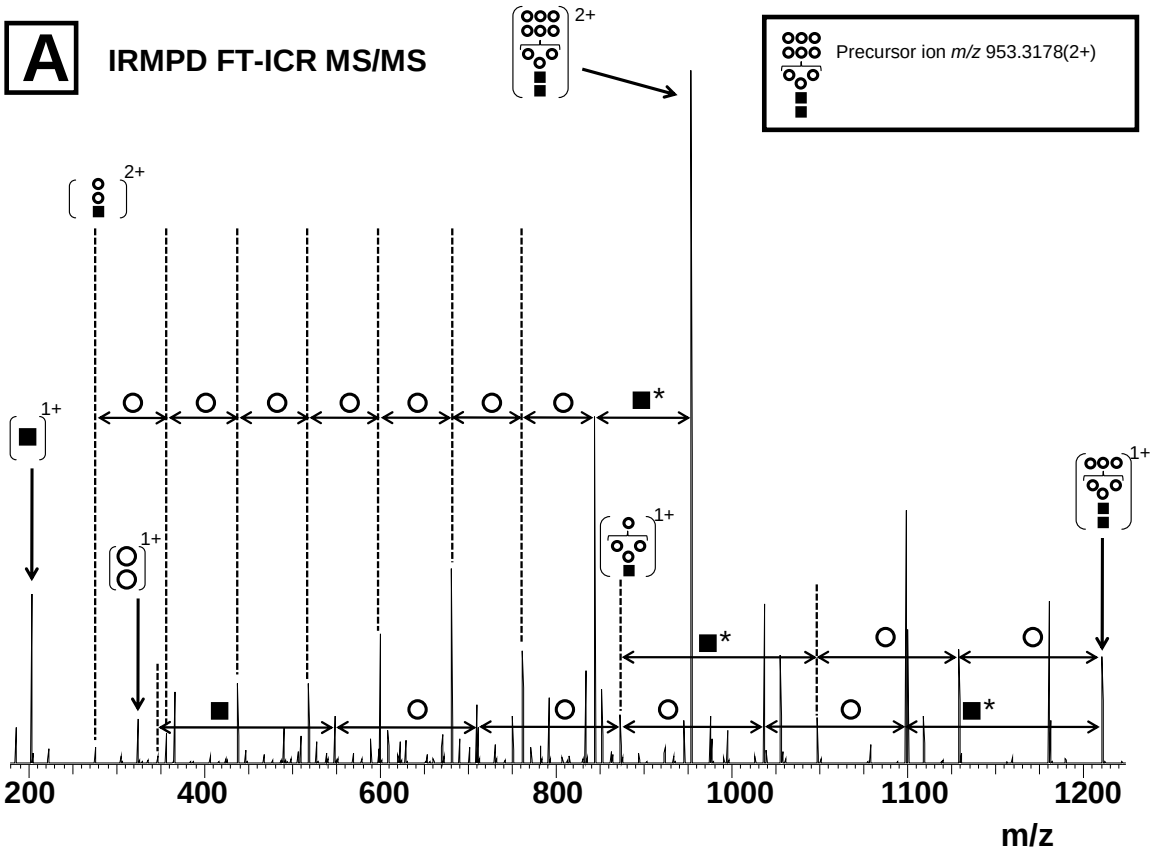
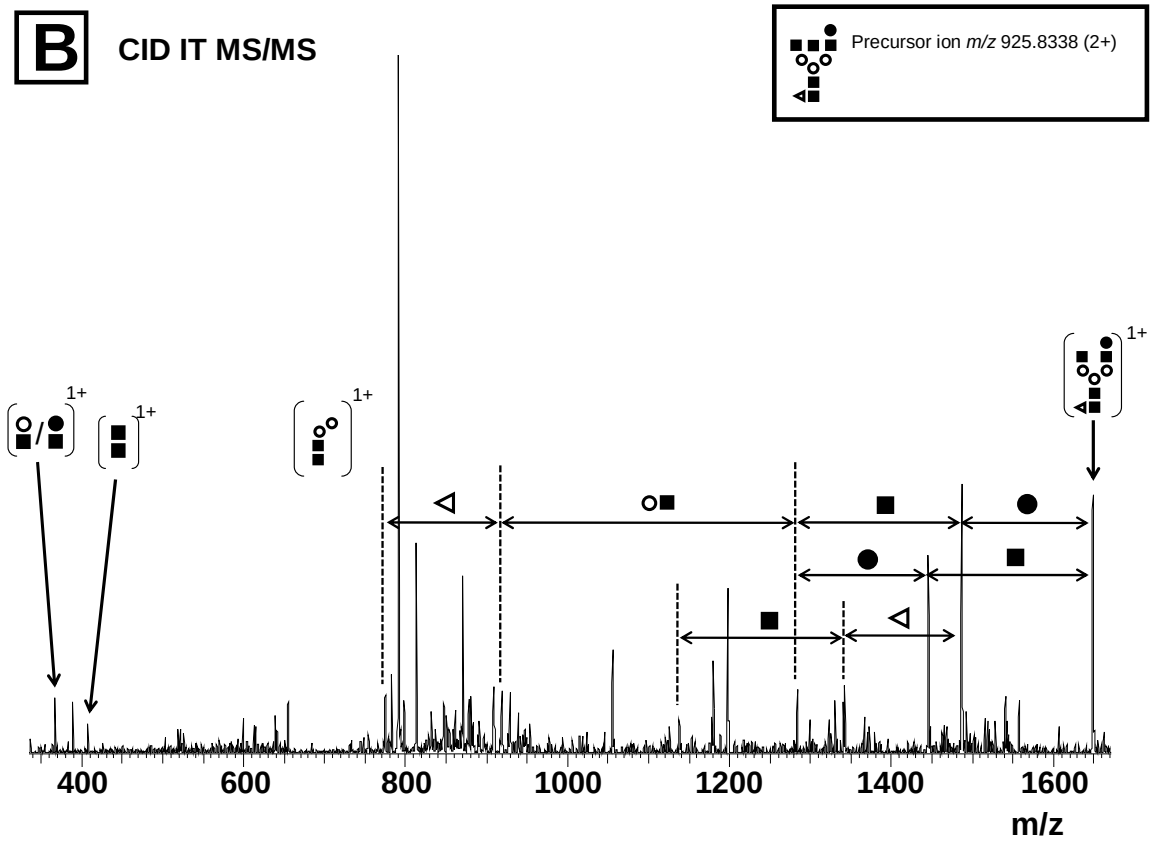
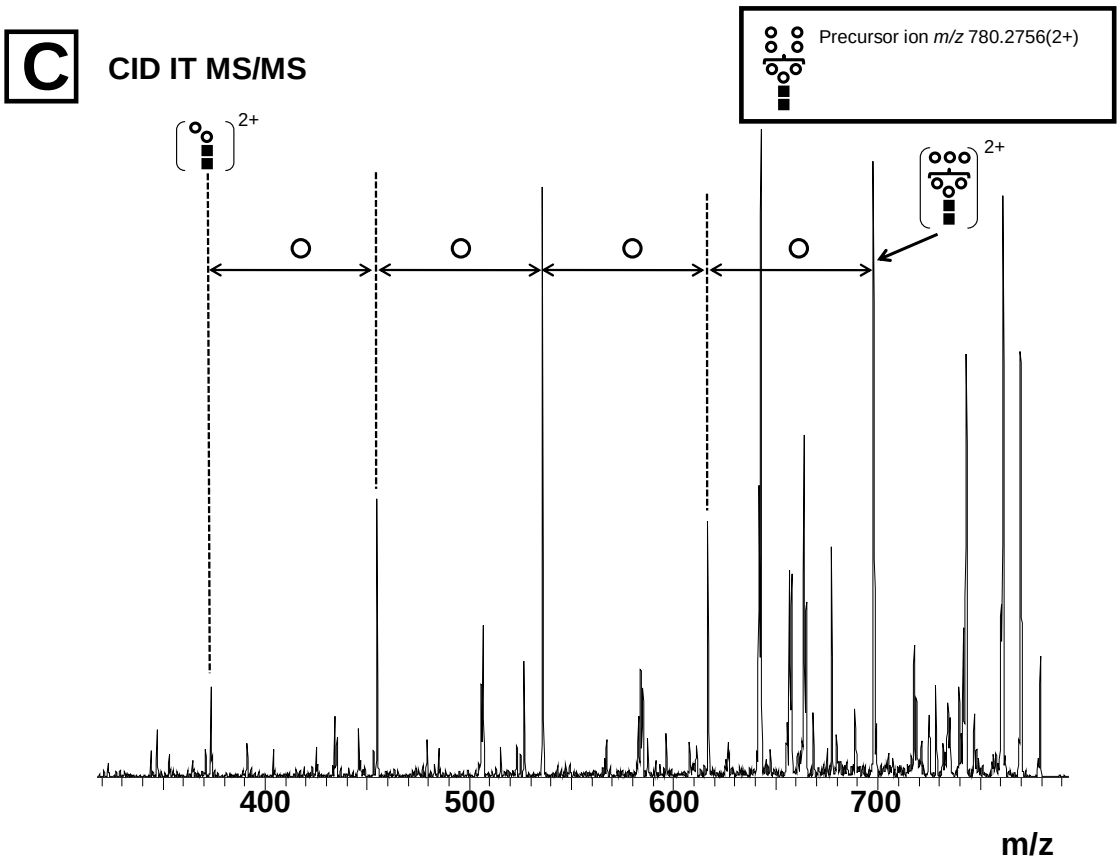
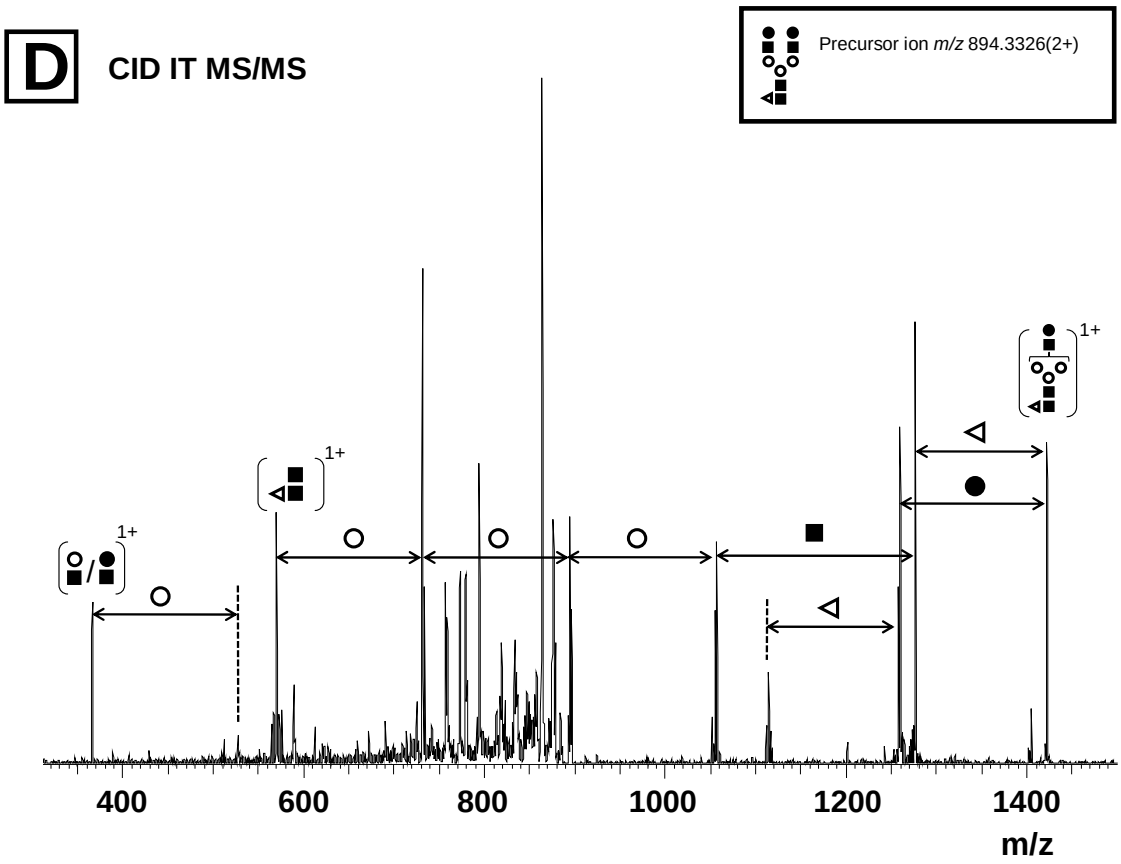
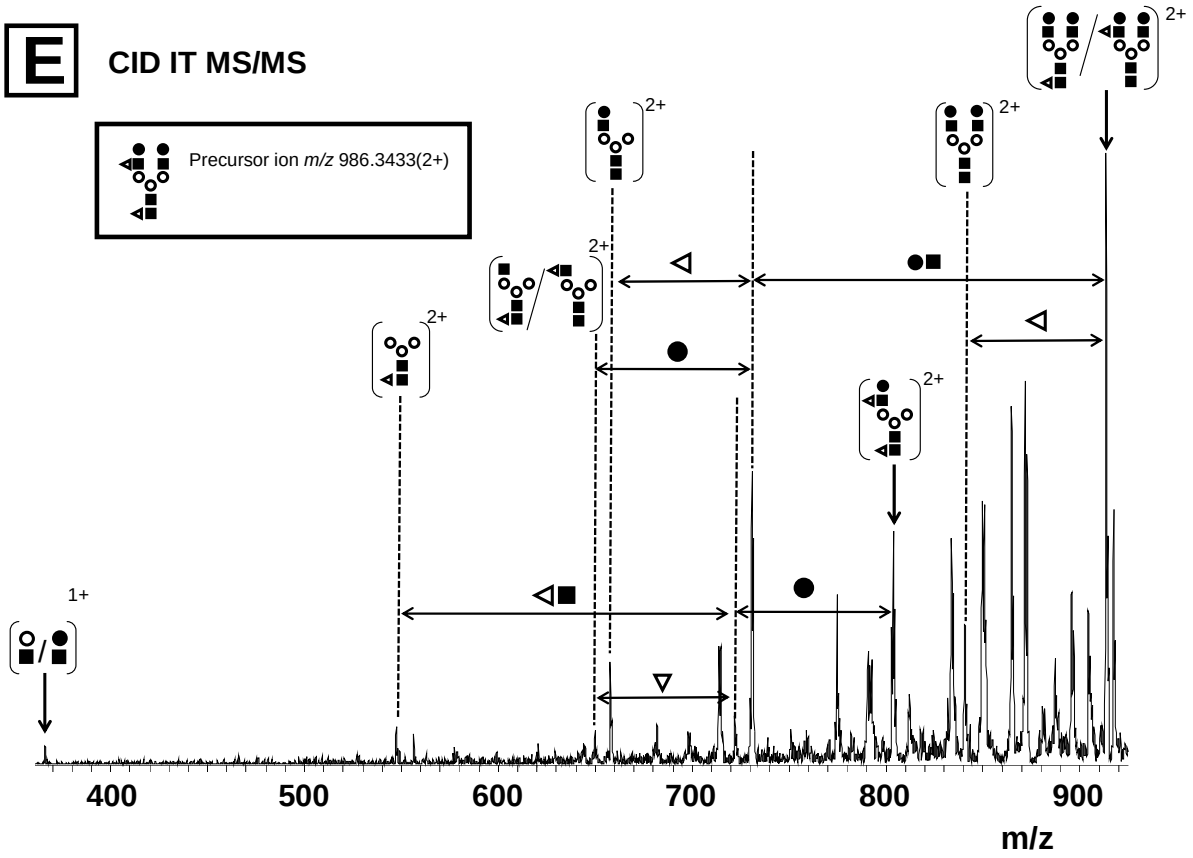
Supplemental Figure 2. Examples of MS/MS spectra for confirmation of glycan identities. (**A**) Infrared multi-photon dissociation (IRMPD) LTQ-FT ICR tandem mass spectra of a high-mannose glycan of gp120 from 293T cell line. (**B**) Collision-induced dissociation (CID) LTQ-ion trap tandem mass spectra of triantennary complex glycan of gp120 from 293T cell line. (**C**) CID LTQ-ion trap tandem mass spectra of high-mannose glycan of gp120 from Jurkat cell line. (**D**) CID LTQ-ion trap tandem mass spectra of fucosylated complex glycan of gp120 from RD cell line. (**E**) CID LTQ-ion trap tandem mass spectra of bi-fucosylated complex glycan of gp120 from HepG2 cell line. (**F**) CID LTQ-ion trap tandem mass spectra of triantennary complex glycan of gp120 from HepG2 cell line. (**G**) CID LTQ FT ICR tandem mass spectra of high mannose glycan of gp120 from CHO cell line. Full rectangle, GlcNAc; full rectangle with *, reducing-end GlcNAc; empty circle, Man; full circle, Gal; full triangle, Fuc.

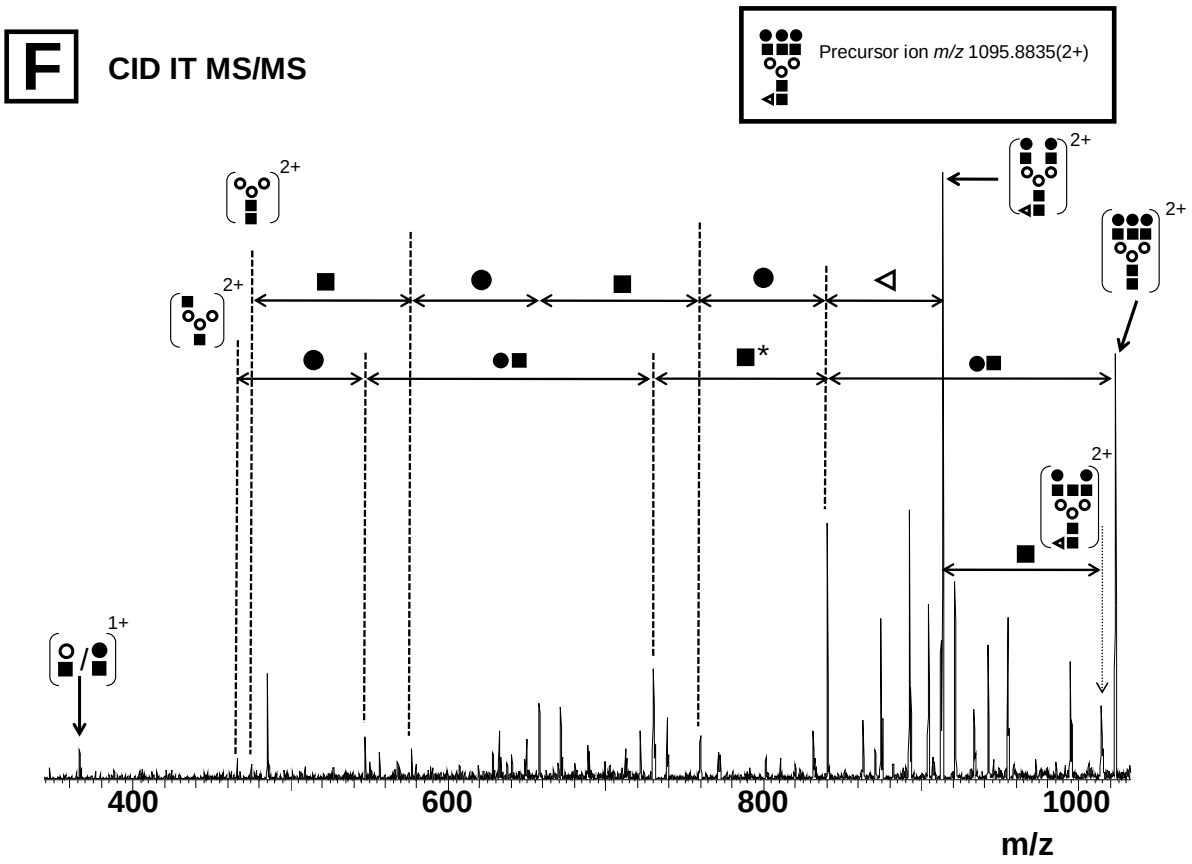

A
IRMPD FT-ICR MS/MS
Precursor ion m/z 953.3178(2+)
2+
1+
200
400
600
800
1000
1100
1200
m/z

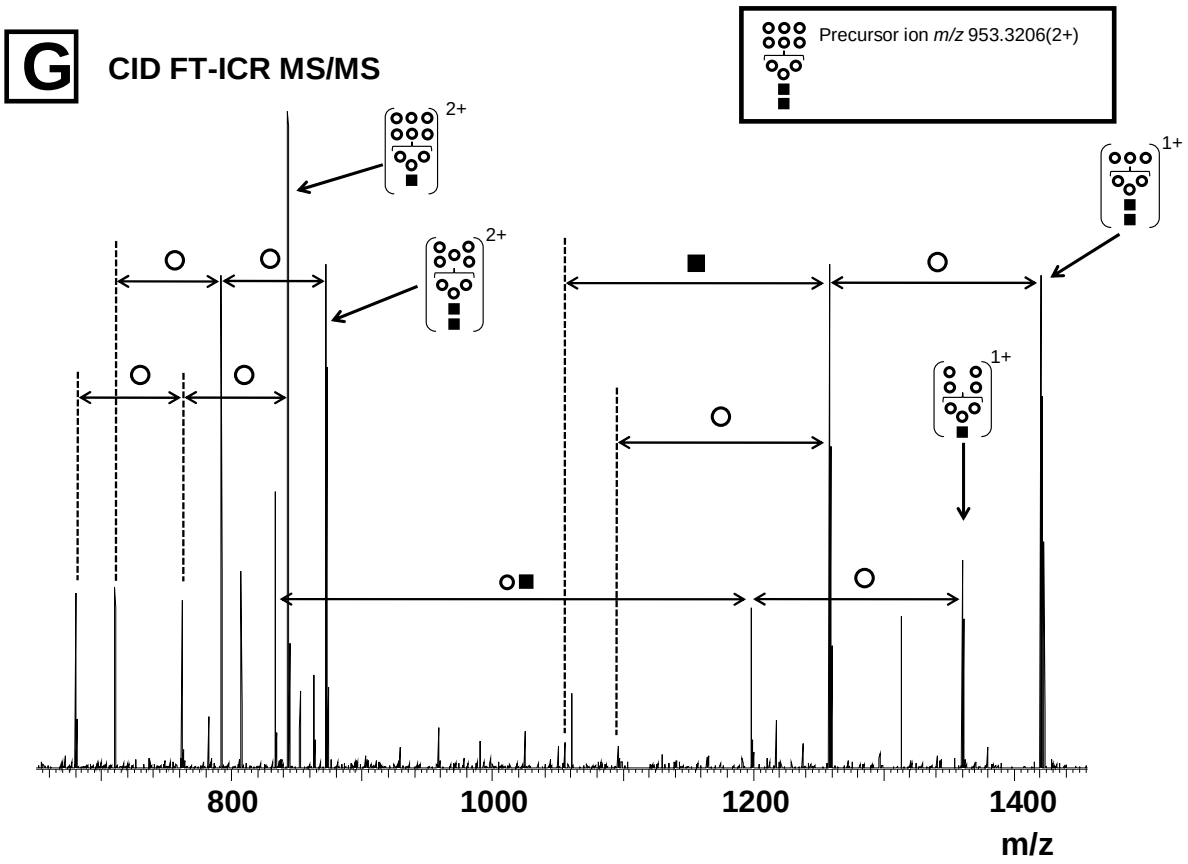

B
CID IT MS/MS
Precursor ion m/z 925.8338 (2+)
1+
1+
1+
1+
400
600
800
1000
1200
1400
1600
m/z


C
CID IT MS/MS
Precursor ion m/z 780.2756(2+)
2+
2+
400
500
600
700
m/z


D
CID IT MS/MS
Precursor ion m/z 894.3326(2+)
1+
1+
1+
400
600
800
1000
1200
1400
m/z


E
CID IT MS/MS
Precursor ion m/z 986.3433(2+)
2+
2+
2+
2+
2+
2+
1+
400
500
600
700
800
900
m/z


F
CID IT MS/MS
Precursor ion m/z 1095.8835(2+)
2+
2+
2+
2+
2+
1+
■*
400
600
800
1000
m/z


G
CID FT-ICR MS/MS
Precursor ion m/z 953.3206(2+)
2+
2+
1+
1+
800
1000
1200
1400
m/z