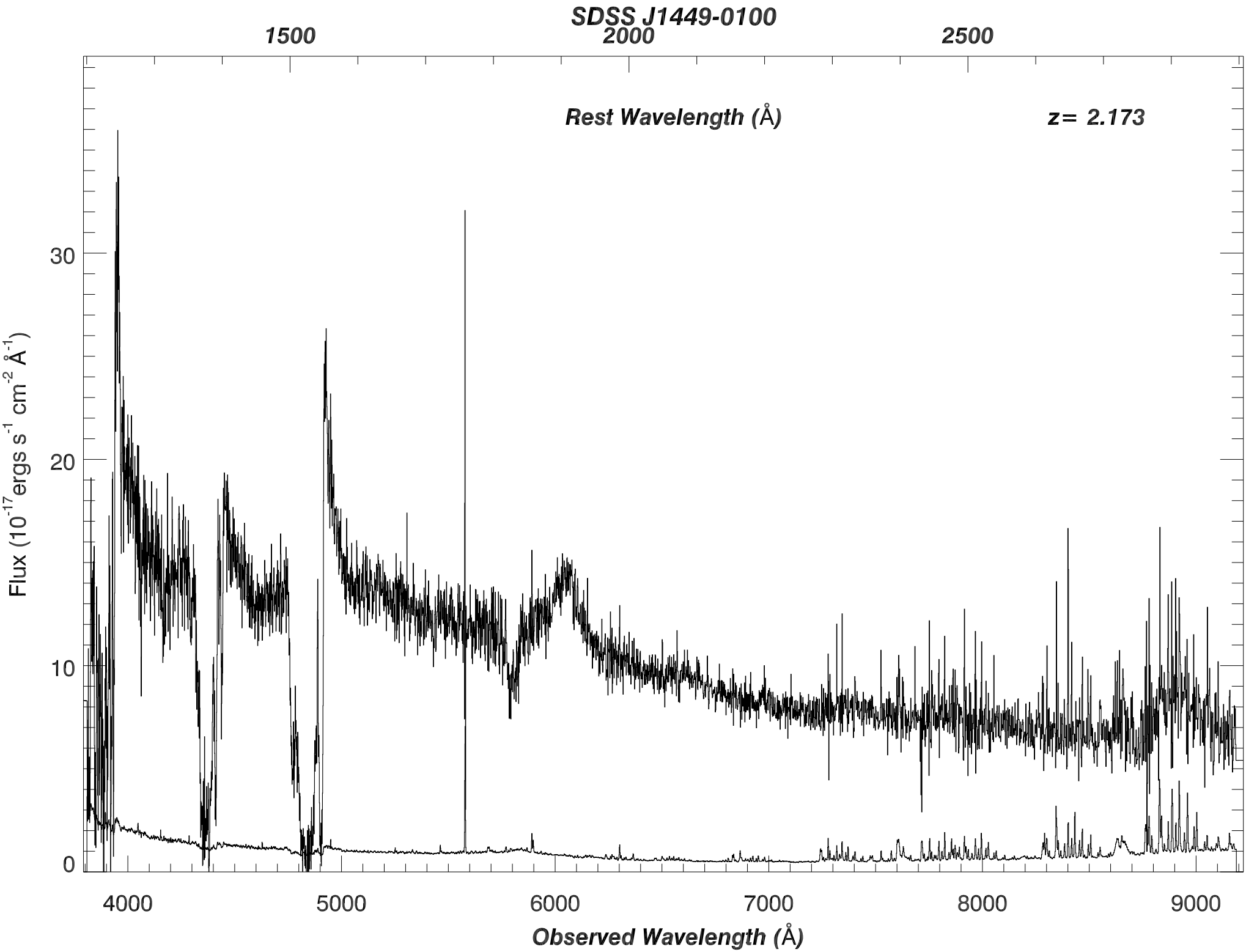
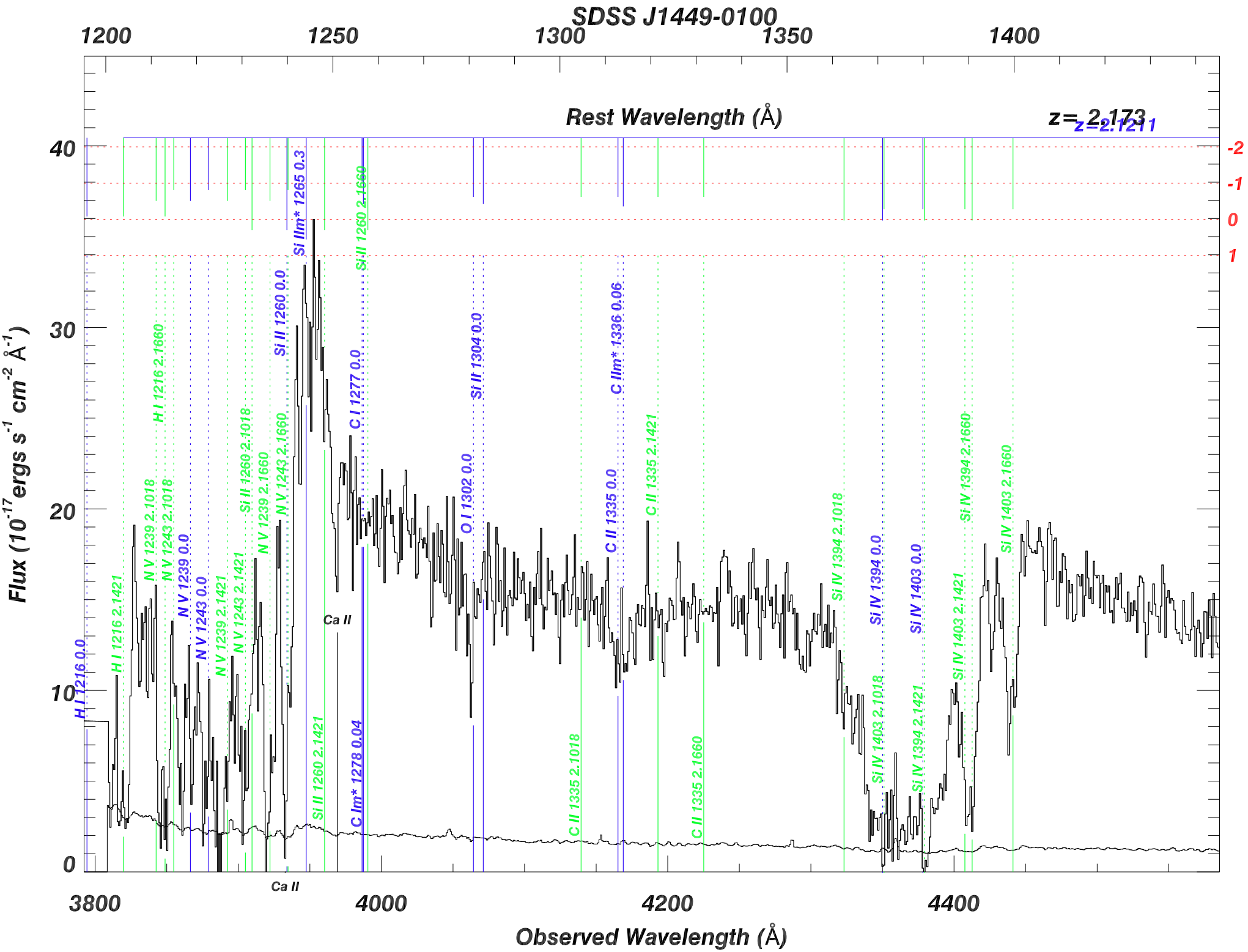
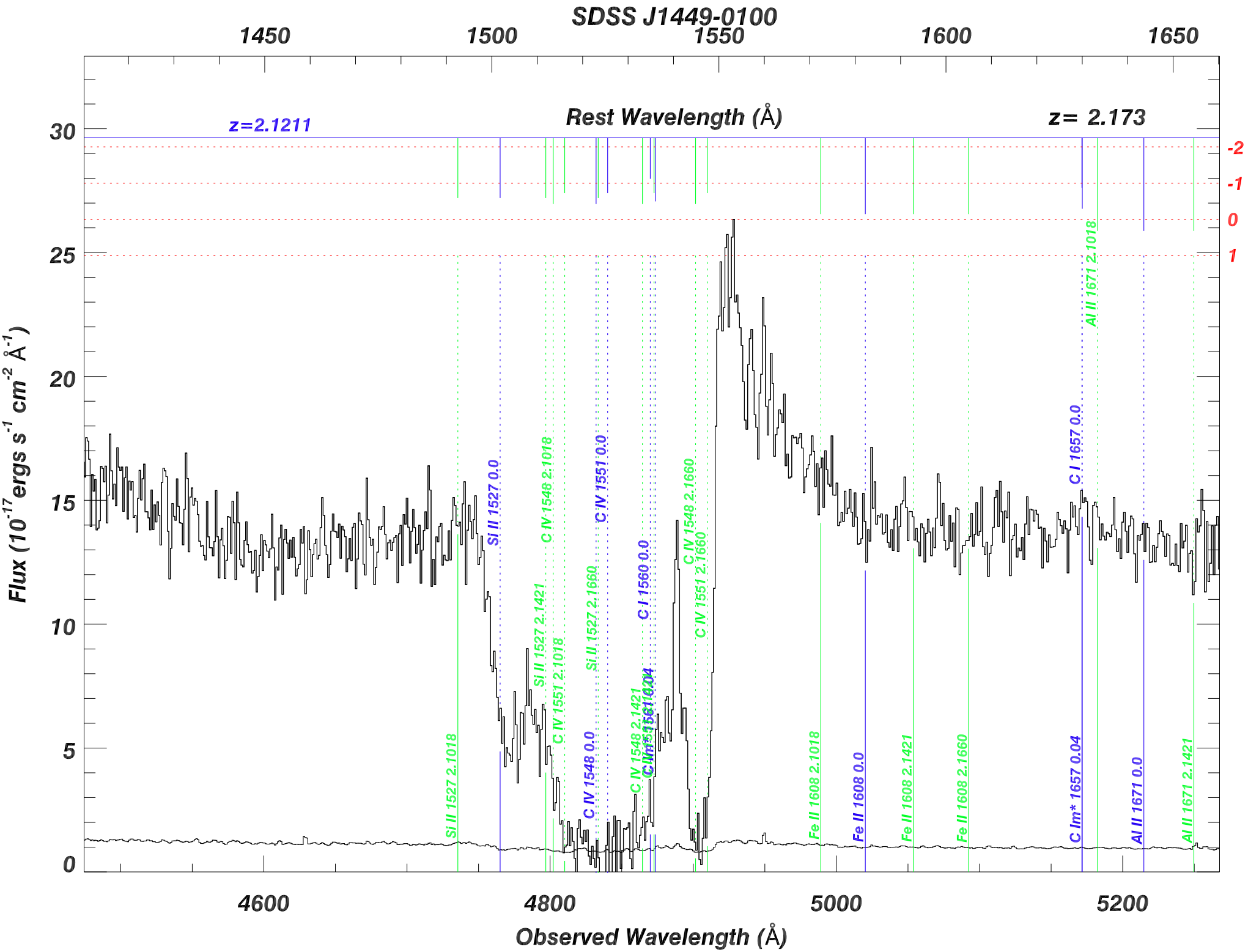
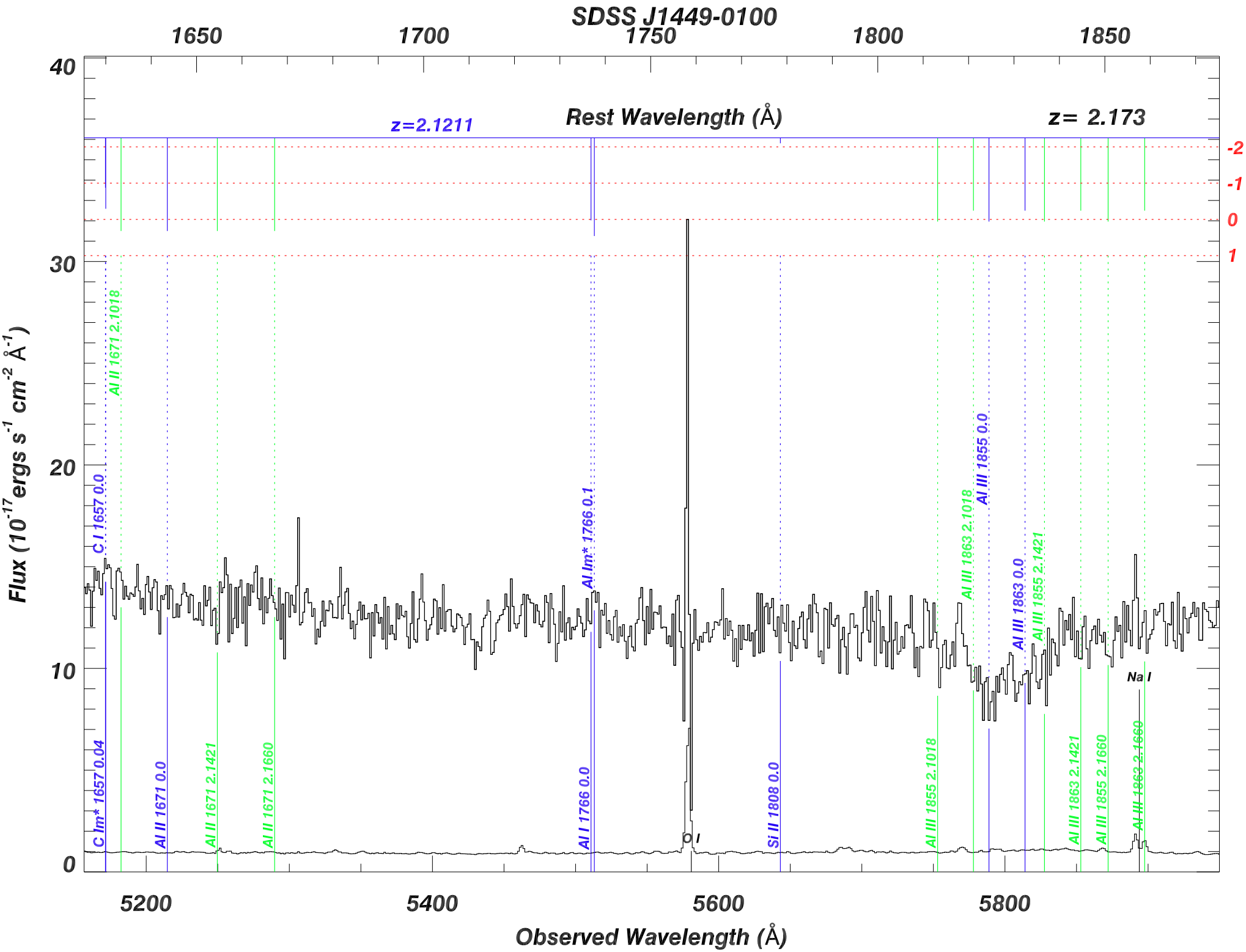
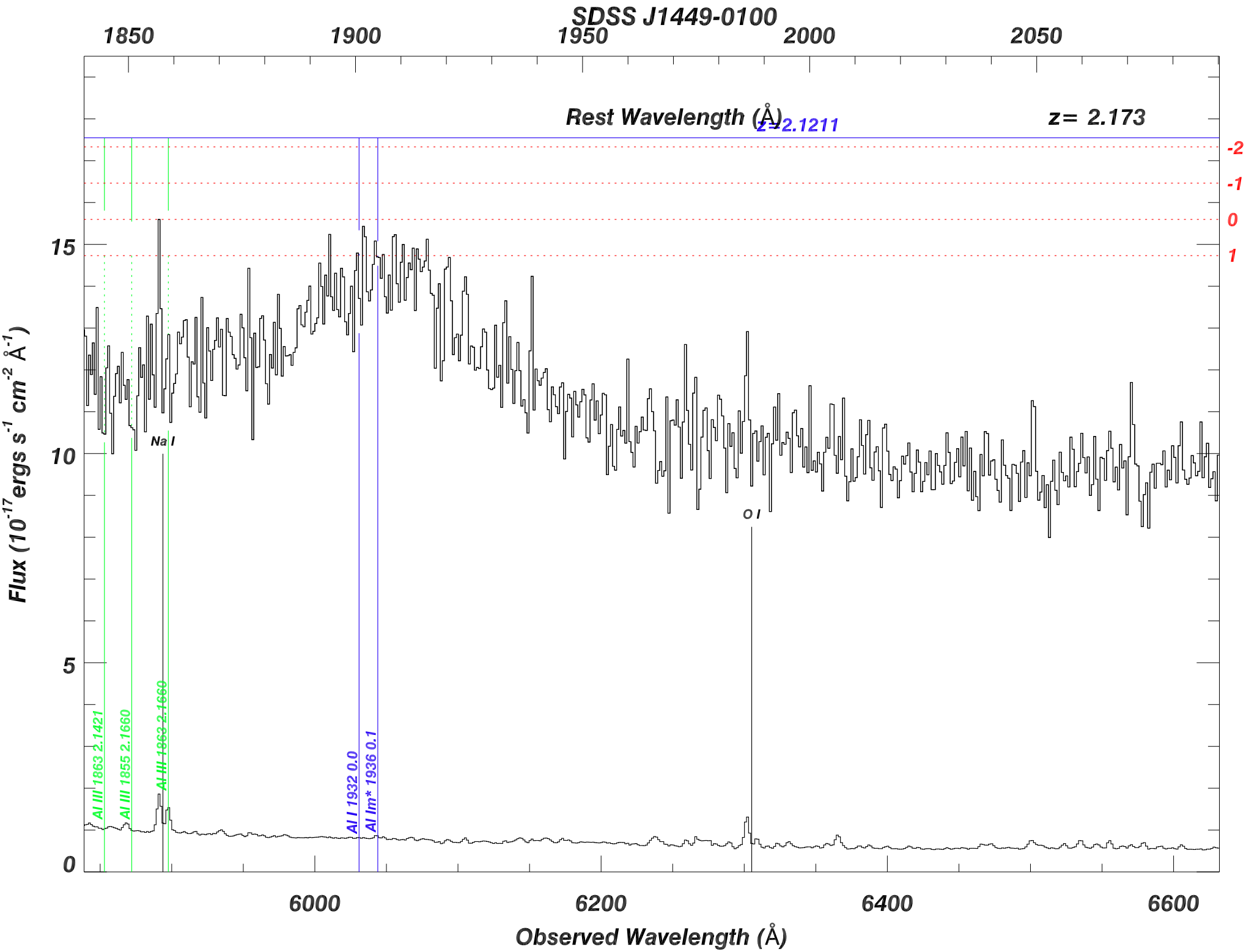
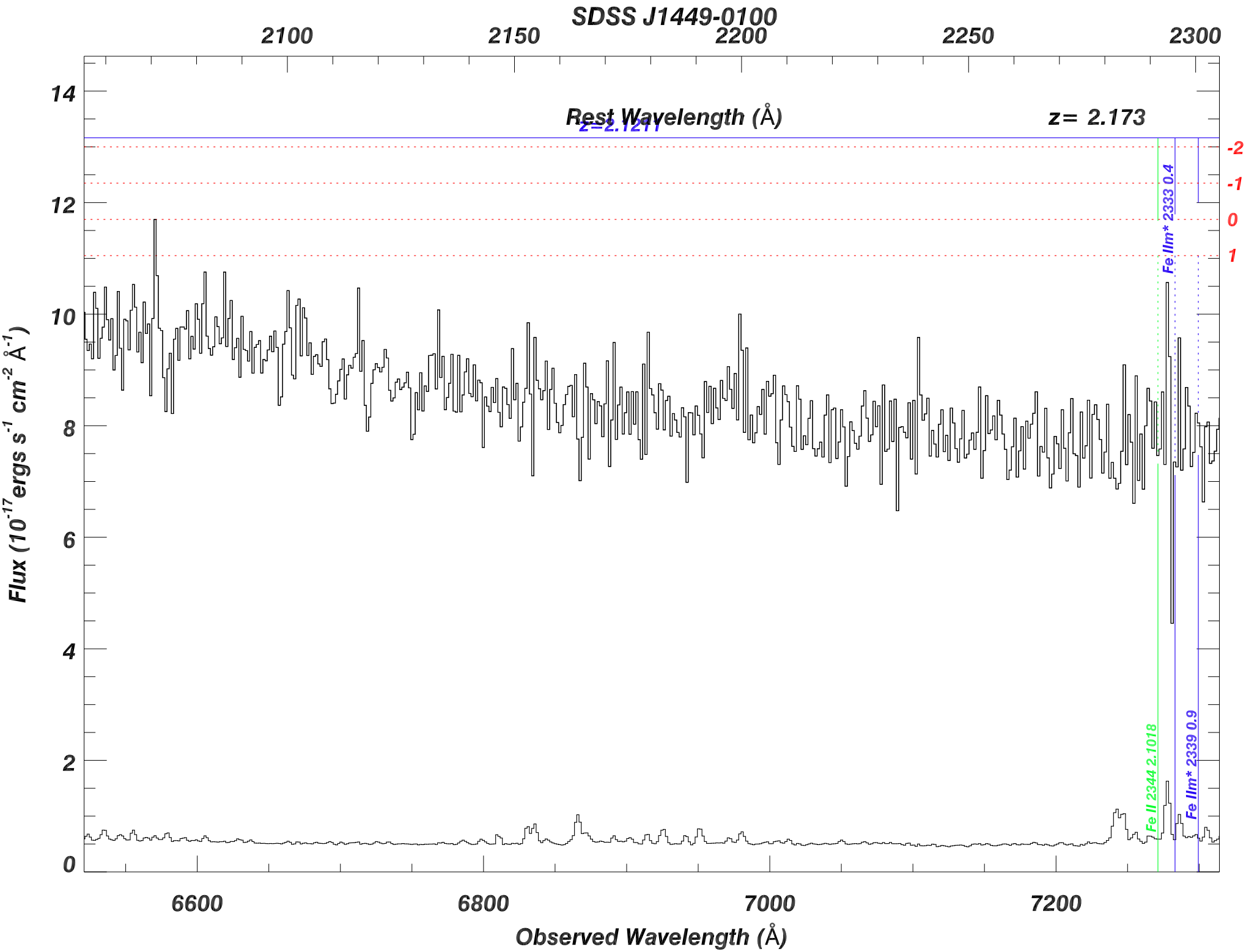

SDSS J1449-0100
1500
2000
2500
Rest Wavelength (Å)
z= 2.173
30
20
10
0
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
4000
5000
6000
7000
8000
9000
Observed Wavelength (Å)

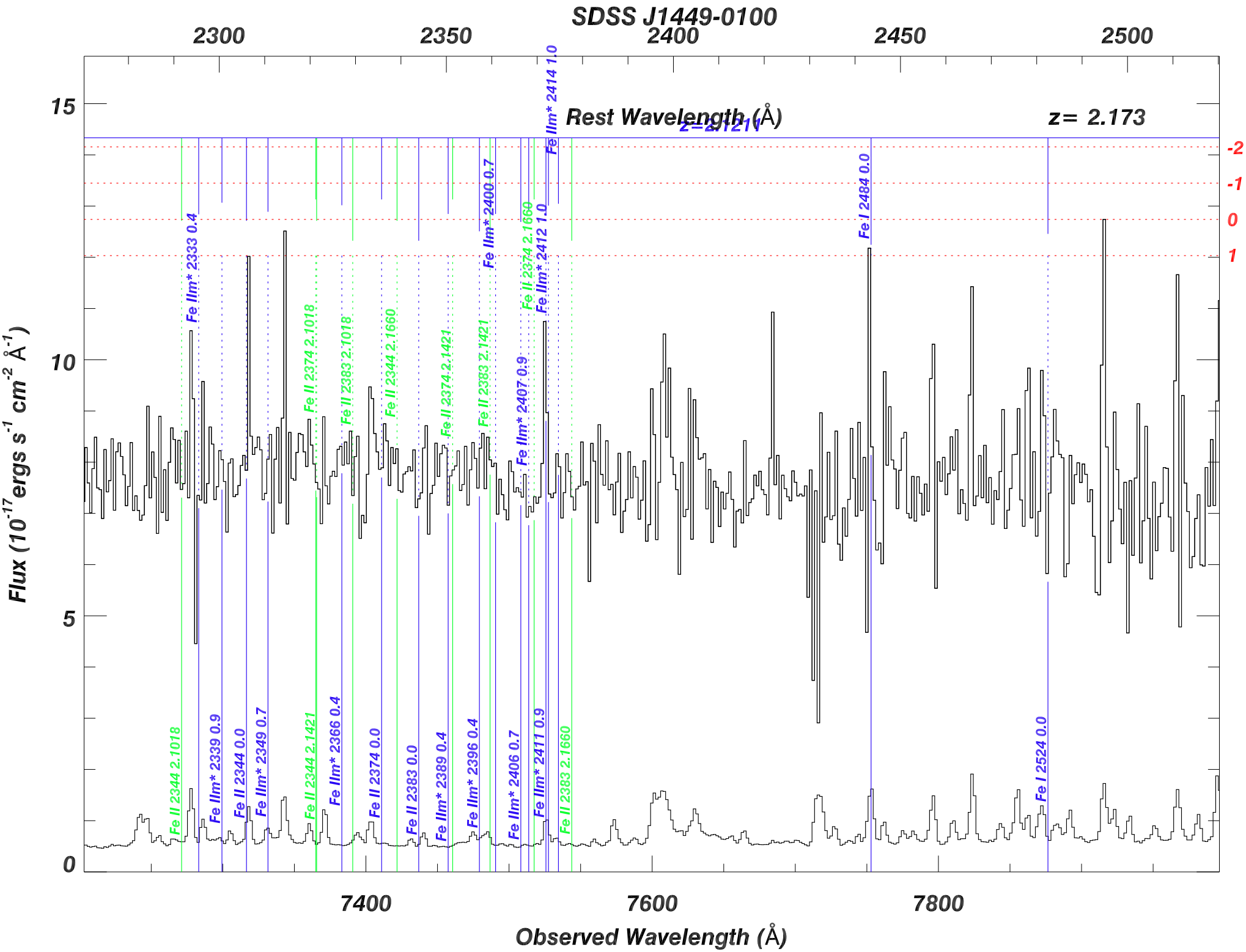

SDSS J1449-0100
Rest Wavelength (Å)
z= 2.173
z=2.1211
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
Observed Wavelength (Å)
H I 1216 0.0
H I 1216 2.1421
N V 1239 2.1018
H I 1216 2.1660
N V 1243 2.1018
N V 1239 0.0
N V 1243 0.0
N V 1239 2.1421
N V 1243 2.1421
Si II 1260 2.1018
N V 1239 2.1660
N V 1243 2.1660
Si II 1260 0.0
Si IIm* 1265 0.3
Ca II
Si II 1260 2.1421
C Im* 1278 0.04
C I 1277 0.0
Si II 1260 2.1660
O I 1302 0.0
Si II 1304 0.0
C II 1335 2.1018
C II 1335 0.0
C IIm* 1336 0.06
C II 1335 2.1421
C II 1335 2.1660
Si IV 1394 2.1018
Si IV 1394 0.0
Si IV 1403 2.1018
Si IV 1403 0.0
Si IV 1394 2.1421
Si IV 1403 2.1421
Si IV 1394 2.1660
Si IV 1403 2.1660
Ca II
1200
1250
1300
1350
1400
3800
4000
4200
4400
0
10
20
30
40
-2
-1
0
1

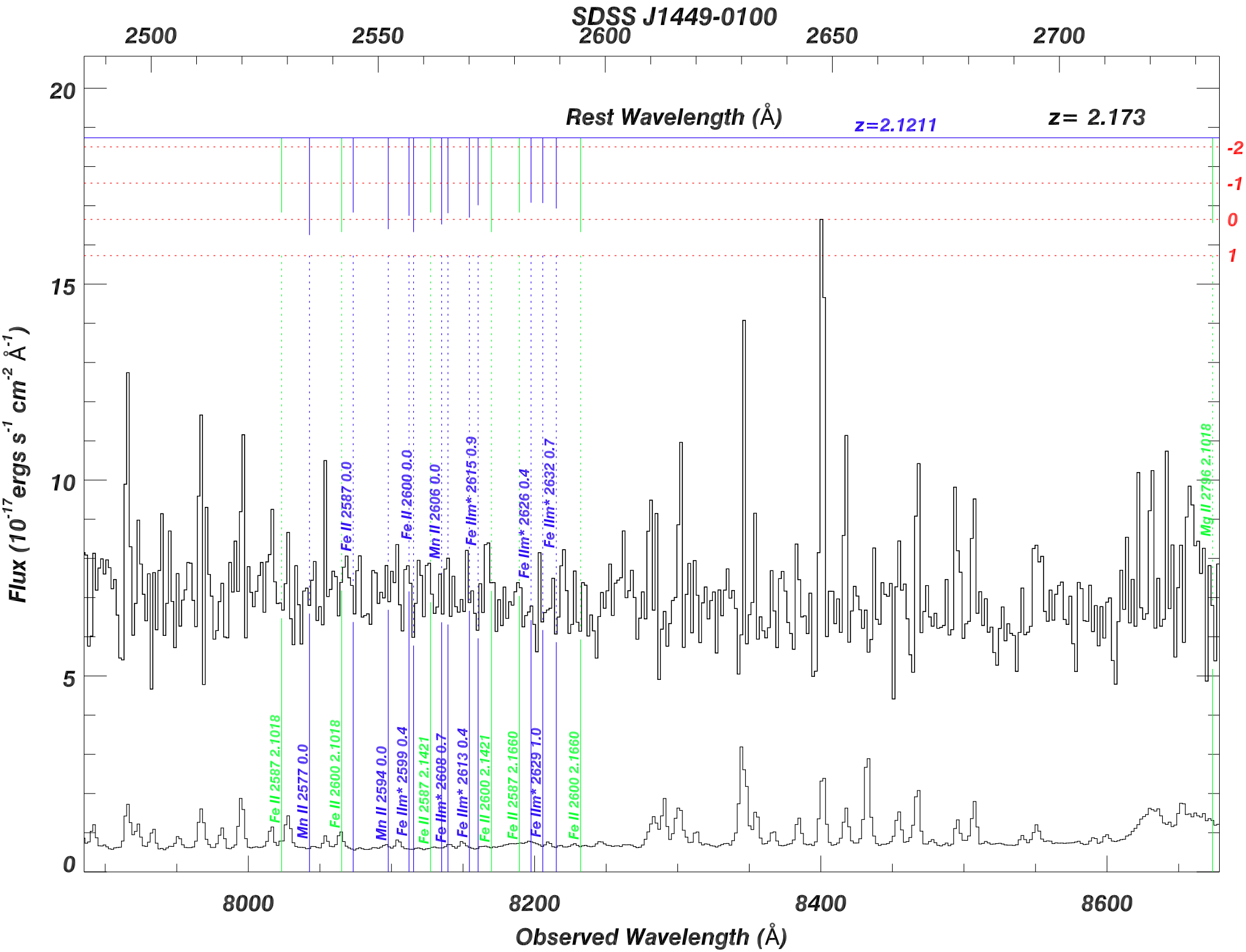

SDSS J1449-0100
Rest Wavelength (Å)
z=2.1211
z= 2.173
Observed Wavelength (Å)
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
Si II 1527 2.1018
Si II 1527 0.0
C IV 1548 2.1018
C IV 1551 2.1018
Si II 1527 2.1421
C IV 1548 0.0
Si II 1527 2.1660
C IV 1551 0.0
C IV 1548 2.1421
C I 1560 0.0
C IV 1548 2.1660
C IV 1551 2.1660
Fe II 1608 2.1018
Fe II 1608 0.0
Fe II 1608 2.1421
Fe II 1608 2.1660
C I 1657 0.0
C Im* 1657 0.04
Al II 1671 2.1018
Al II 1671 0.0
Al II 1671 2.1421

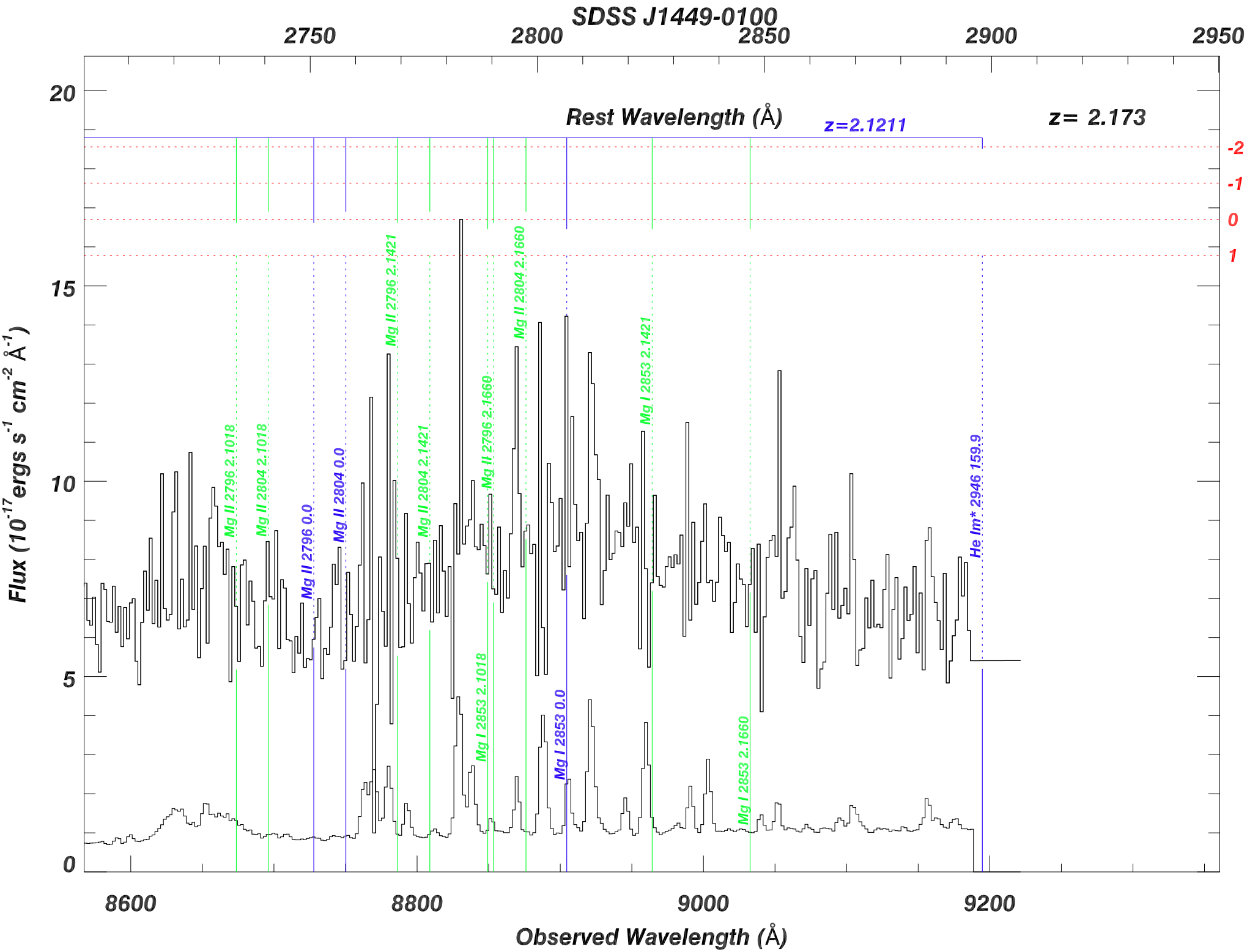

SDSS J1449-0100
Rest Wavelength (Å)
z=2.1211
z= 2.173
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
Observed Wavelength (Å)
C I 1657 0.0
Al II 1671 2.1018
C Im* 1657 0.04
Al II 1671 0.0
Al II 1671 2.1421
Al II 1671 2.1660
Al I 1766 0.1
Al I 1766 0.0
O I
Si II 1808 0.0
Al III 1855 2.1018
Al III 1863 2.1018
Al III 1855 0.0
Al III 1863 0.0
Al III 1855 2.1421
Al III 1863 2.1421
Al III 1855 2.1660
Al III 1863 2.1660
Na I


SDSS J1449-0100
1850
1900
1950
2000
2050
Rest Wavelength (Å)
z=2.1211
z= 2.173
-2
-1
0
1
15
10
5
0
Na I
O I
Al III 1863 2.1421
Al III 1855 2.1660
Al III 1863 2.1660
Al I 1932 0.0
Al Im* 1936 0.1
Flux (10^-17 ergs s^-1 cm^-2 Å^-1)
6000
6200
6400
6600
Observed Wavelength (Å)


SDSS J1449-0100
Rest Wavelength (Å)
z= 2.173
z=2.1211
Fe II 2344 2.1018
Fe IIm* 2333 0.4
Fe IIm* 2339 0.9
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
Observed Wavelength (Å)
2100
2150
2200
2250
2300
6600
6800
7000
7200
0
2
4
6
8
10
12
14
-2
-1
0
1


SDSS J1449-0100
Rest Wavelength (Å)
z= 2.173
z=2.1211
Observed Wavelength (Å)
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
2300
2350
2400
2450
2500
7400
7600
7800
0
5
10
15
-2
-1
0
1
Fe II 2344 2.1018
Fe IIm* 2333 0.4
Fe IIm* 2339 0.9
Fe II 2344 0.0
Fe IIm* 2349 0.7
Fe II 2344 2.1421
Fe IIm* 2366 0.4
Fe II 2374 2.1018
Fe II 2383 2.1018
Fe II 2374 0.0
Fe II 2344 2.1660
Fe II 2383 0.0
Fe IIm* 2389 0.4
Fe II 2374 2.1421
Fe IIm* 2396 0.4
Fe II 2383 2.1421
Fe IIm* 2400 0.7
Fe IIm* 2406 0.7
Fe IIm* 2407 0.9
Fe II 2374 2.1660
Fe IIm* 2411 0.9
Fe IIm* 2412 1.0
Fe IIm* 2414 1.0
Fe II 2383 2.1660
Fe I 2484 0.0
Fe I 2524 0.0


SDSS J1449-0100
Rest Wavelength (Å)
z=2.1211
z= 2.173
Observed Wavelength (Å)
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
Fe II 2587 2.1018
Mn II 2577 0.0
Fe II 2600 2.1018
Fe II 2587 0.0
Mn II 2594 0.0
Fe IIm* 2599 0.4
Fe II 2600 0.0
Fe II 2587 2.1421
Fe IIm* 2608 0.7
Mn II 2606 0.0
Fe IIm* 2613 0.4
Fe IIm* 2615 0.9
Fe II 2600 2.1421
Fe II 2587 2.1660
Fe IIm* 2626 0.4
Fe IIm* 2629 1.0
Fe IIm* 2632 0.7
Fe II 2600 2.1660
Mg II 2796 2.1018


SDSS J1449-0100
Rest Wavelength (Å)
z=2.1211
z= 2.173
Mg II 2796 2.1018
Mg II 2804 2.1018
Mg II 2796 0.0
Mg II 2804 0.0
Mg II 2796 2.1421
Mg II 2804 2.1421
Mg I 2853 2.1018
Mg II 2796 2.1660
Mg II 2804 2.1660
Mg I 2853 0.0
Mg I 2853 2.1421
Mg I 2853 2.1660
He Im* 2946 159.9
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
Observed Wavelength (Å)