

SDSS_J1239+1800_MJD54243

Rest Wavelength (\AA)

2000

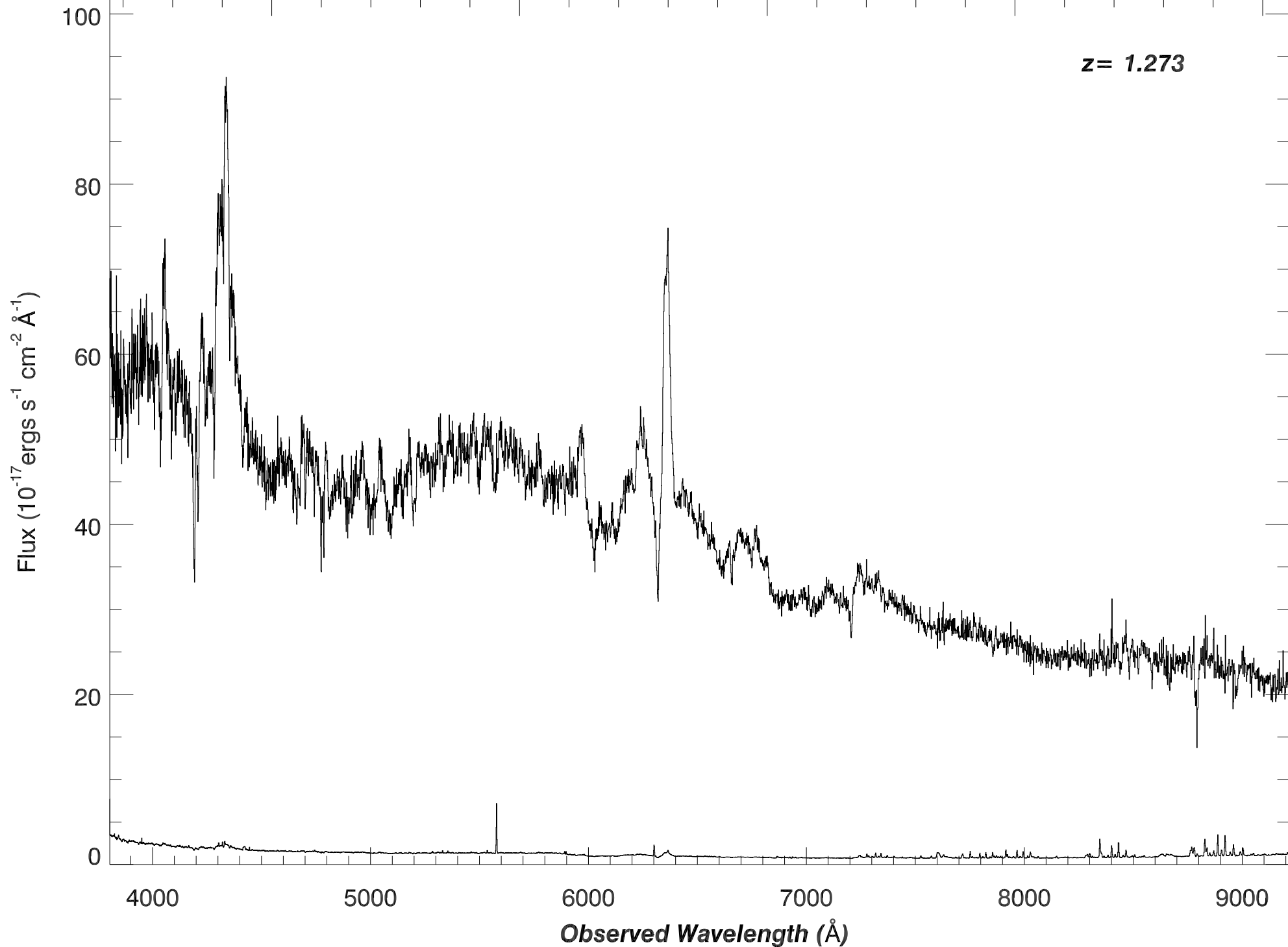
2500

3000

3500

4000

$z = 1.273$



SDSS_J1239+1800_MJD54243

Rest Wavelength (\AA)

1700

1750

1800

1850

1900

100

80

60

40

20

0

Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

$z=1.2606$

$z=1.273$

-2
-1
0
1

Al I 1766 0.0

Al III 1766 0.1

Al III 1863 1.1563

Al III 1855 1.1563

Al III 1855 0.0

Al III 1863 0.0

Al I 1932 0.0

3900

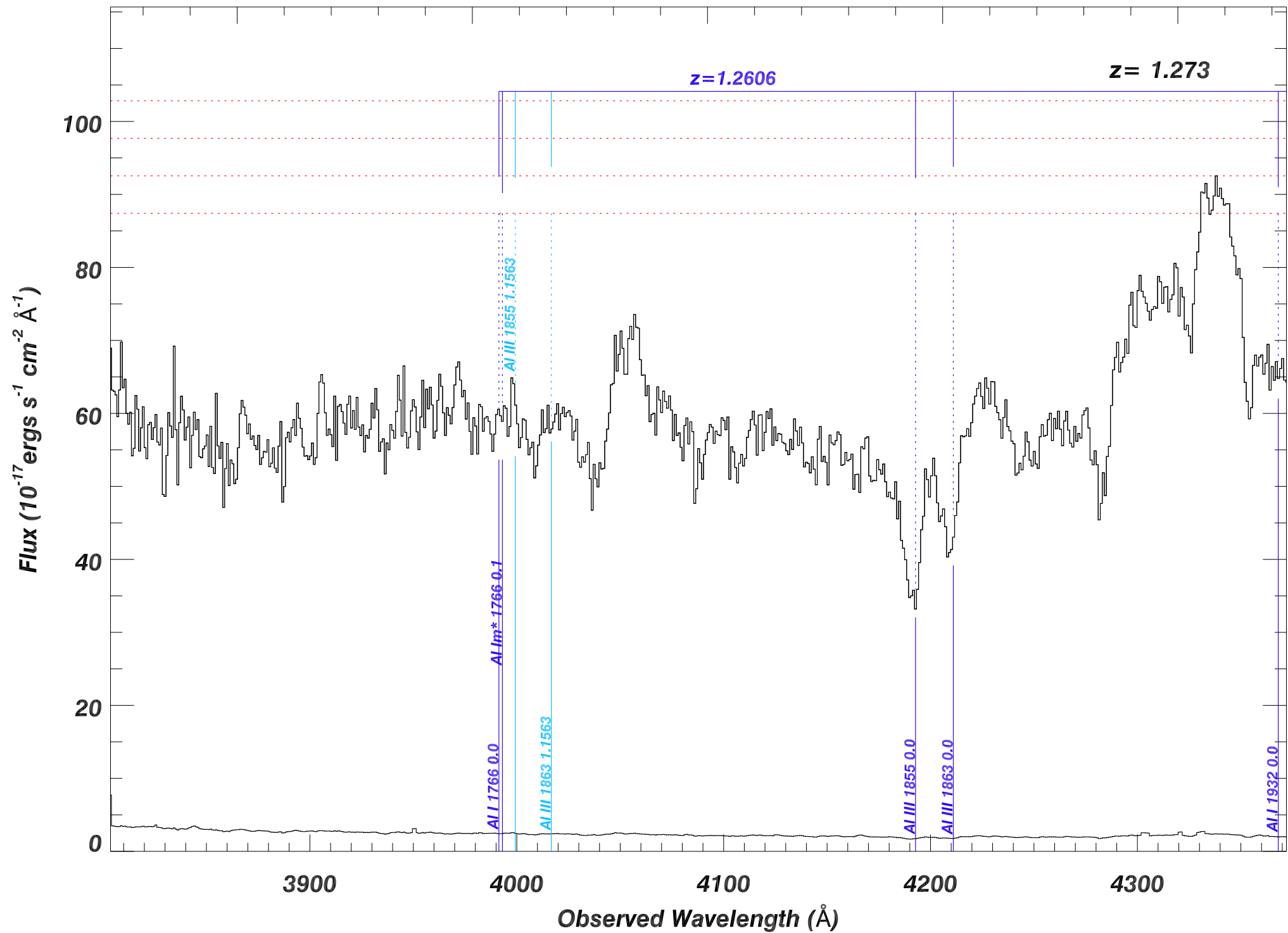
4000

4100

4200

4300

Observed Wavelength (\AA)



SDSS_J1239+1800_MJD54243

Rest Wavelength (\AA)

1900

1950

2000

2050

2100

100

80

60

40

20

0

$z=1.2606$

$z=1.273$

-2

-1

0

1

Al I 1932 0.0

Al Im* 1936 0.1

Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

4400

4500

4600

4700

4800

Observed Wavelength (\AA)



SDSS_J1239+1800_MJD54243

Rest Wavelength (\AA)

2150

2200

2250

2300

2350

Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

60

50

40

30

20

10

0

$z=1.2606$

$z=1.273$

-2
-1
0
1

Fe II 2344 1.1563

Fe II 2374 1.1563

Fe II 2383 1.1563

Fe III* 2333 0.4

Fe III* 2339 0.9

Fe II 2344 0.0

Fe III* 2349 0.7

Fe III* 2366 0.4

Fe II 2374 0.0

4900

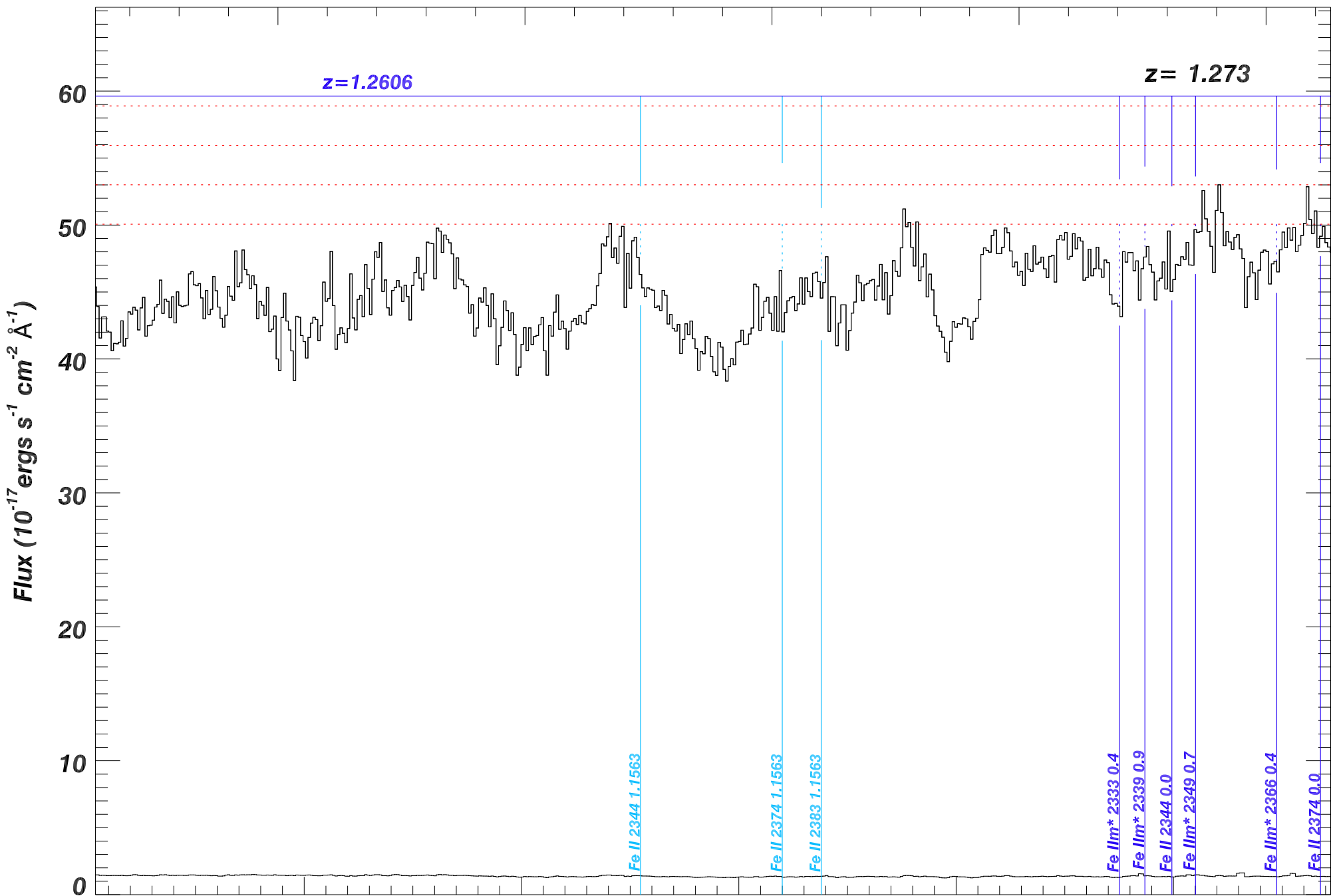
5000

5100

5200

5300

Observed Wavelength (\AA)



SDSS_J1239+1800_MJD54243

Rest Wavelength (\AA)

2350

2400

2450

2500

2550

Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

60

50

40

30

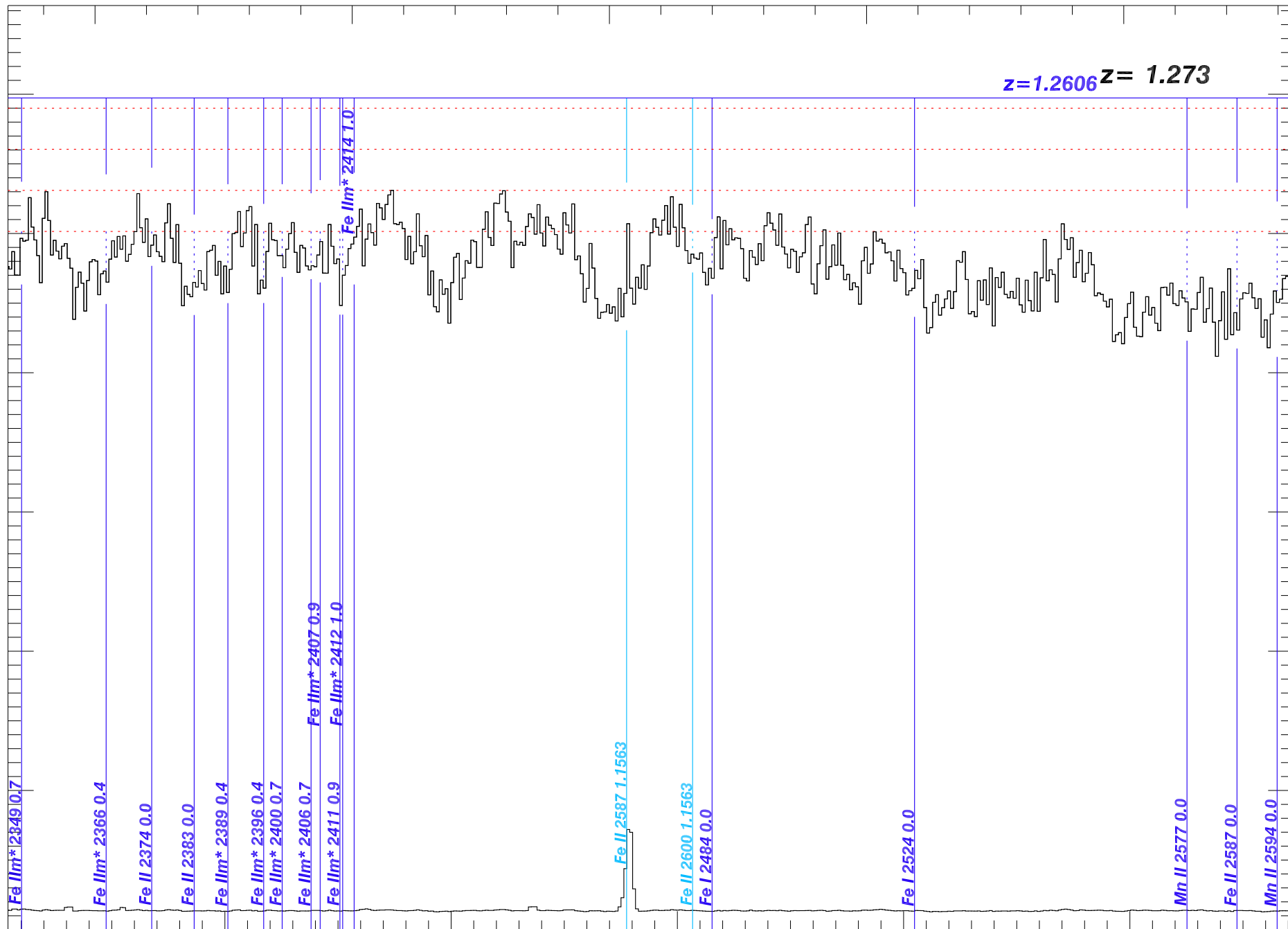
20

10

0

$z=1.2606$ $z=1.273$

-2
-1
0
1



5400

5500

5600

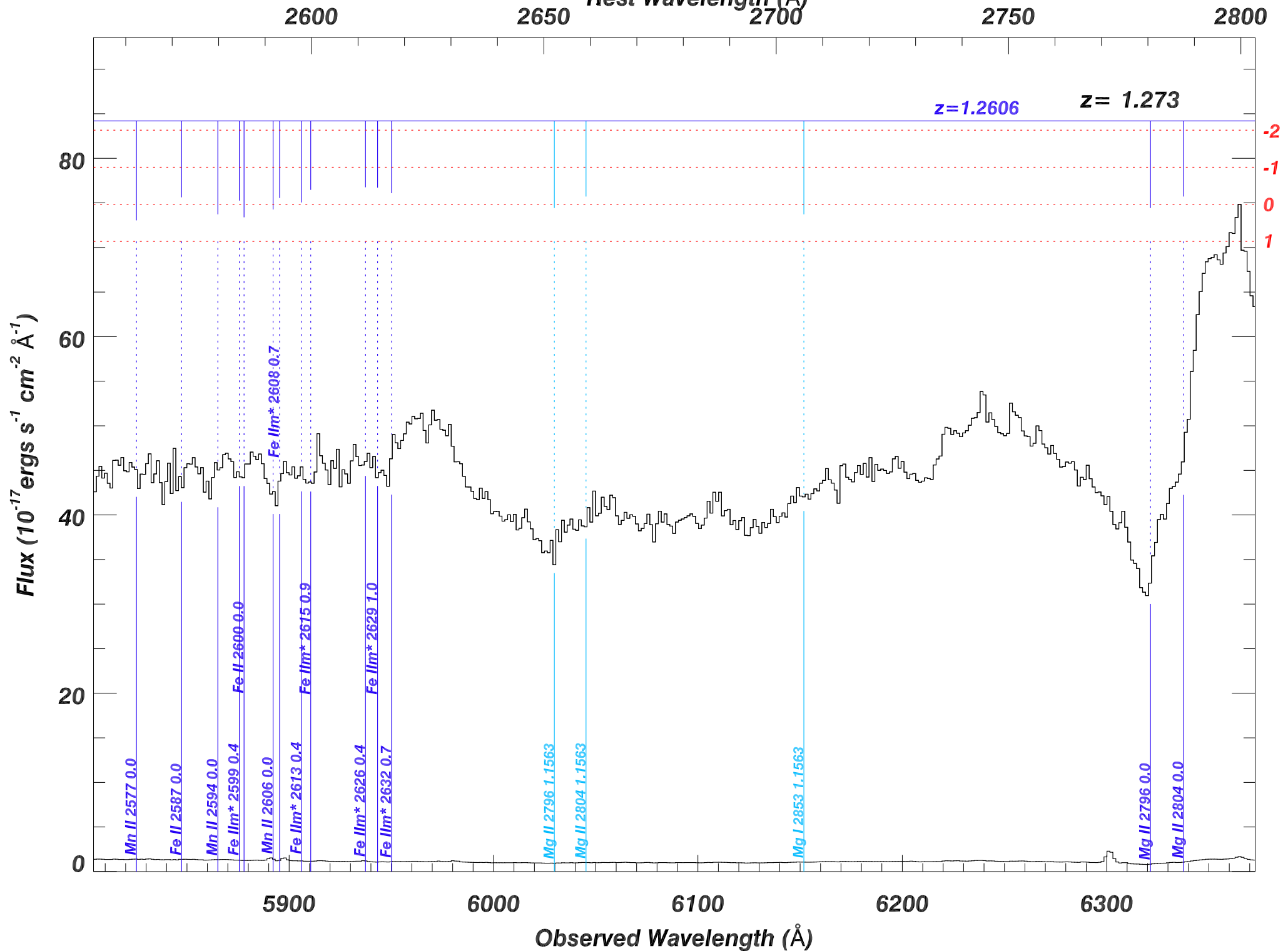
5700

5800

Observed Wavelength (\AA)

SDSS_J1239+1800_MJD54243

Rest Wavelength (\AA)



SDSS_J1239+1800_MJD54243

Rest Wavelength (\AA)

2800

2850

2900

2950

3000

$z=1.2606$ $z=1.273$

Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

80

60

40

20

0

-2
-1
0
1

Mg II 2796 0.0

Mg II 2804 0.0

Mg I 2853 0.0

He I m* 2946 159.9

6400

6500

6600

6700

6800

Observed Wavelength (\AA)



SDSS_J1239+1800_MJD54243

Rest Wavelength (\AA)

3000

3050

3100

3150

3200

$z=1.2606$

$z=1.273$

Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

40

30

20

10

0

-2
-1
0
1

He I λ 3189.159.9

6900

7000

7100

7200

7300

Observed Wavelength (\AA)



SDSS_J1239+1800_MJD54243

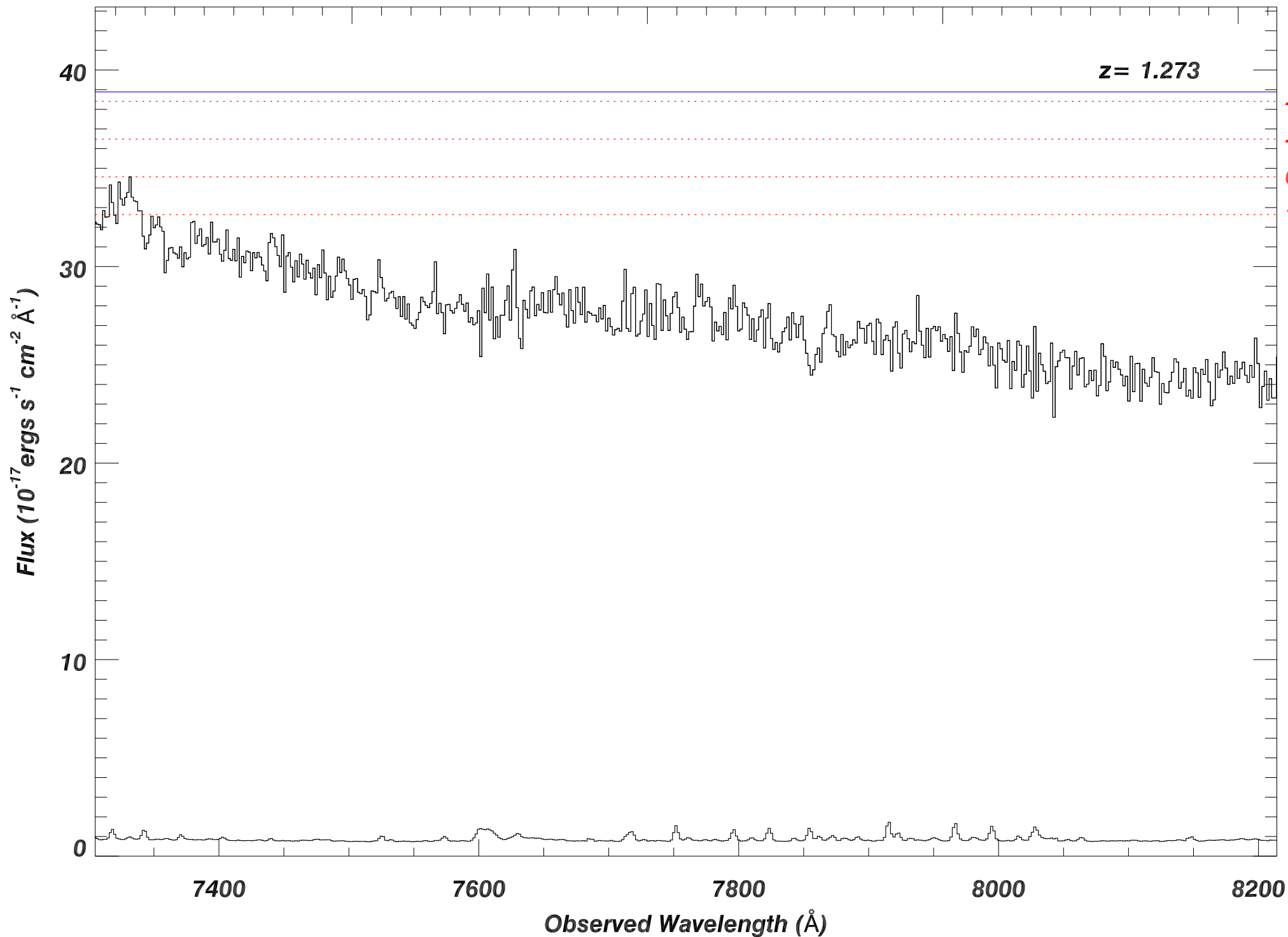
Rest Wavelength (\AA)

3300

3400

3500

3600



SDSS_J1239+1800_MJD54243

Rest Wavelength (\AA)

3600

3700

3800

3900

$z=1.2606$

$z= 1.273$

Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

30

20

10

0

-2

-1

0

1

Ca II 3935 1.1563

Ca II 3970 1.1563

He I m* 3890 159.9

Ca II 3935 0.0

Ca II 3970 0.0

8200

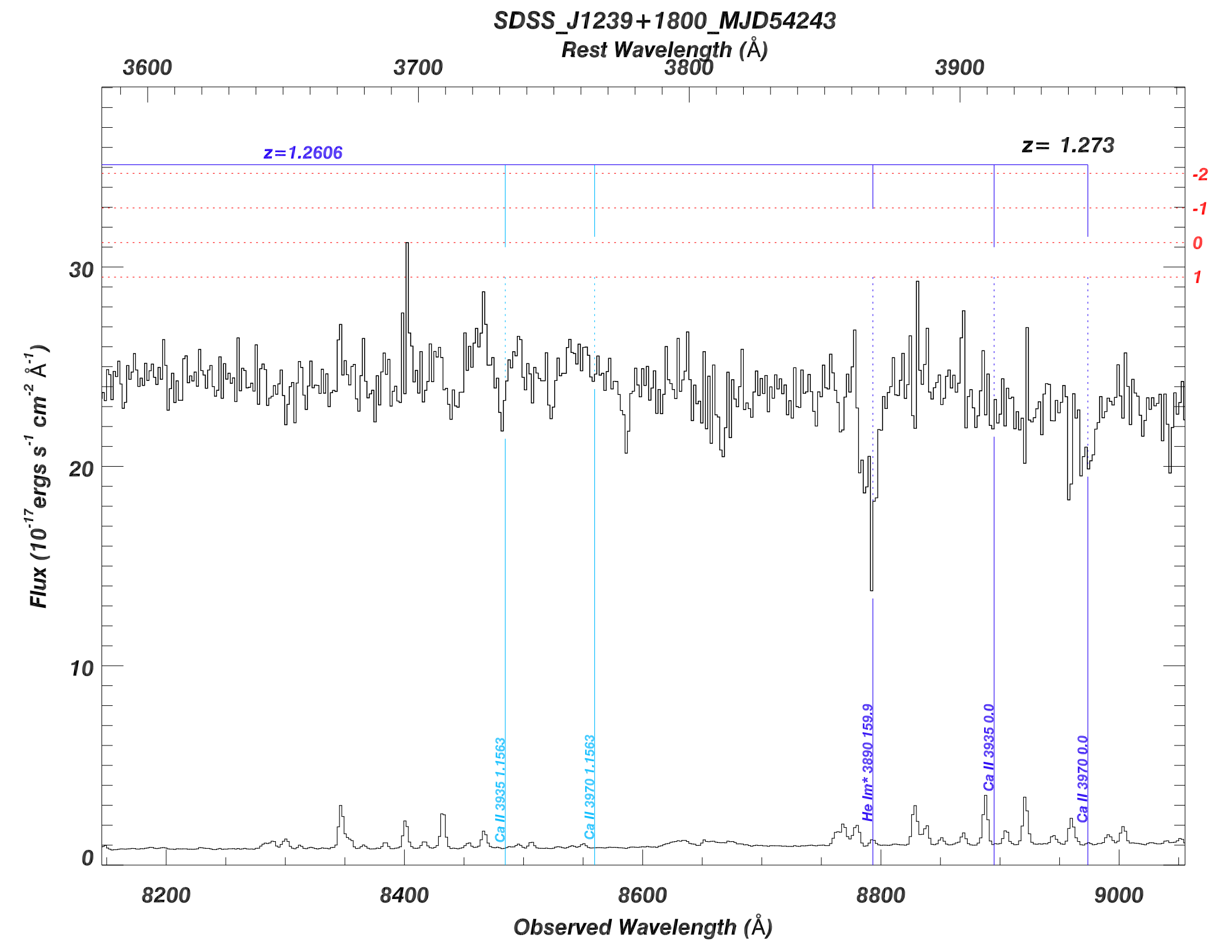
8400

8600

8800

9000

Observed Wavelength (\AA)



SDSS_J1239+1800_MJD54243

Rest Wavelength (Å)

4000

4100

4200

4300

z = 1.273

Flux (10^{-17} ergs s^{-1} cm^{-2} \AA^{-1})

30

25

20

15

10

5

0

-2

-1

0

1

9000

9200

9400

9600

9800

Observed Wavelength (Å)

