

Livingstone's 1871 Field Diary

Ink Spectra

NLS10703_001_036r, NLS10703_001_039v,
NLS10703_002_037r, NLS10703_002_038v

Roger L. Easton, Jr.

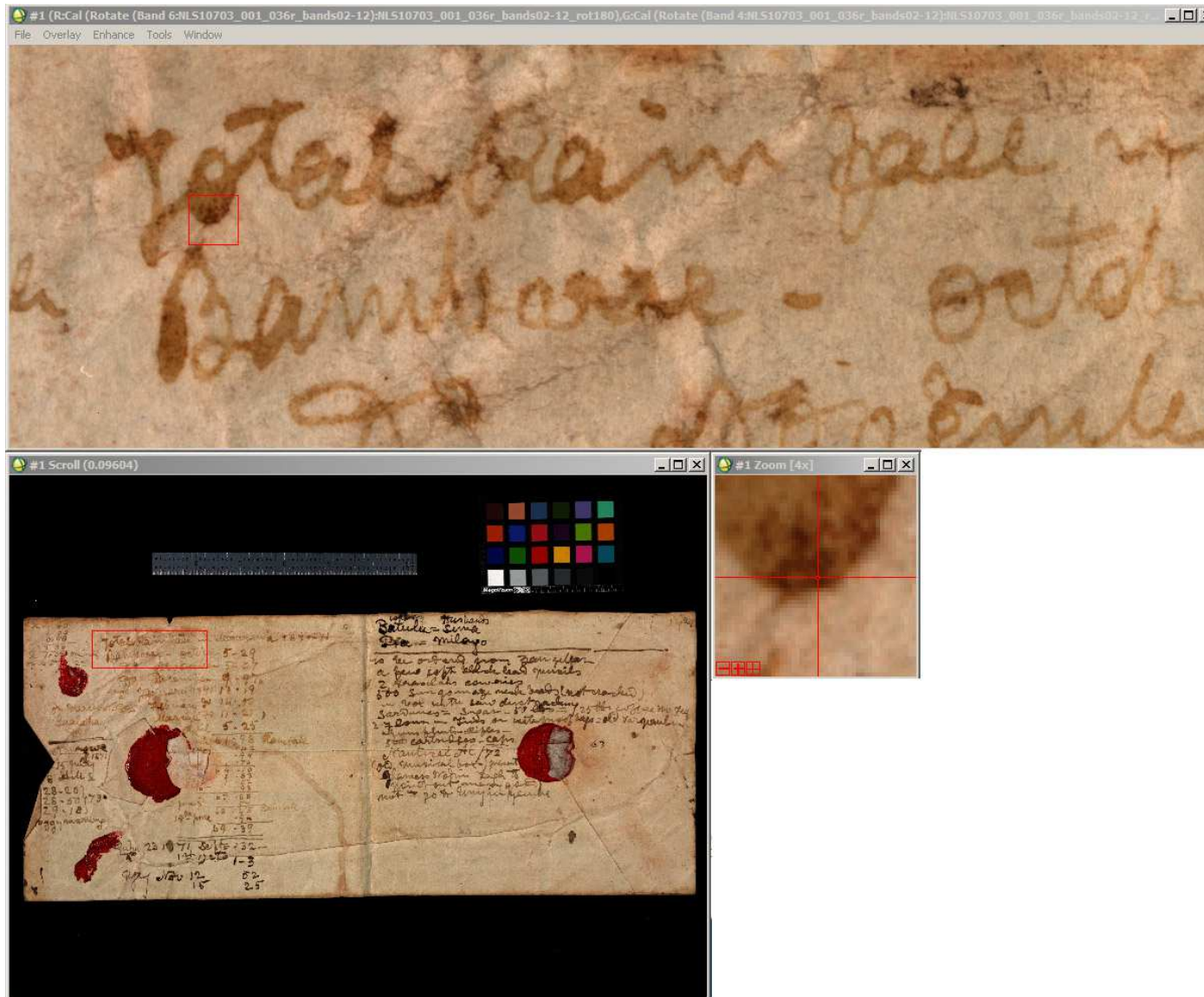
NLS10703_001_036r

Orange Ink Spectra

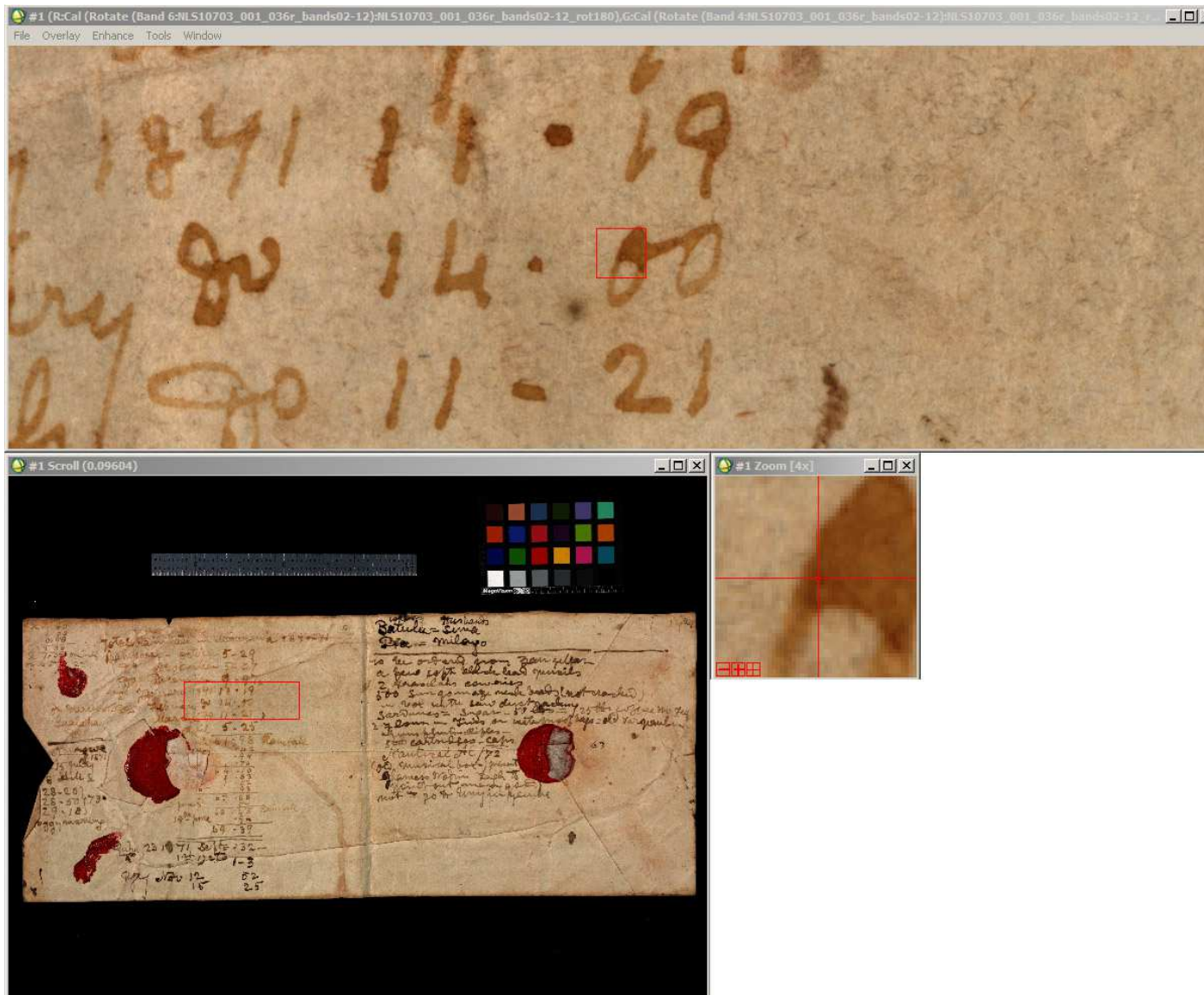
NLS10703_001_036r



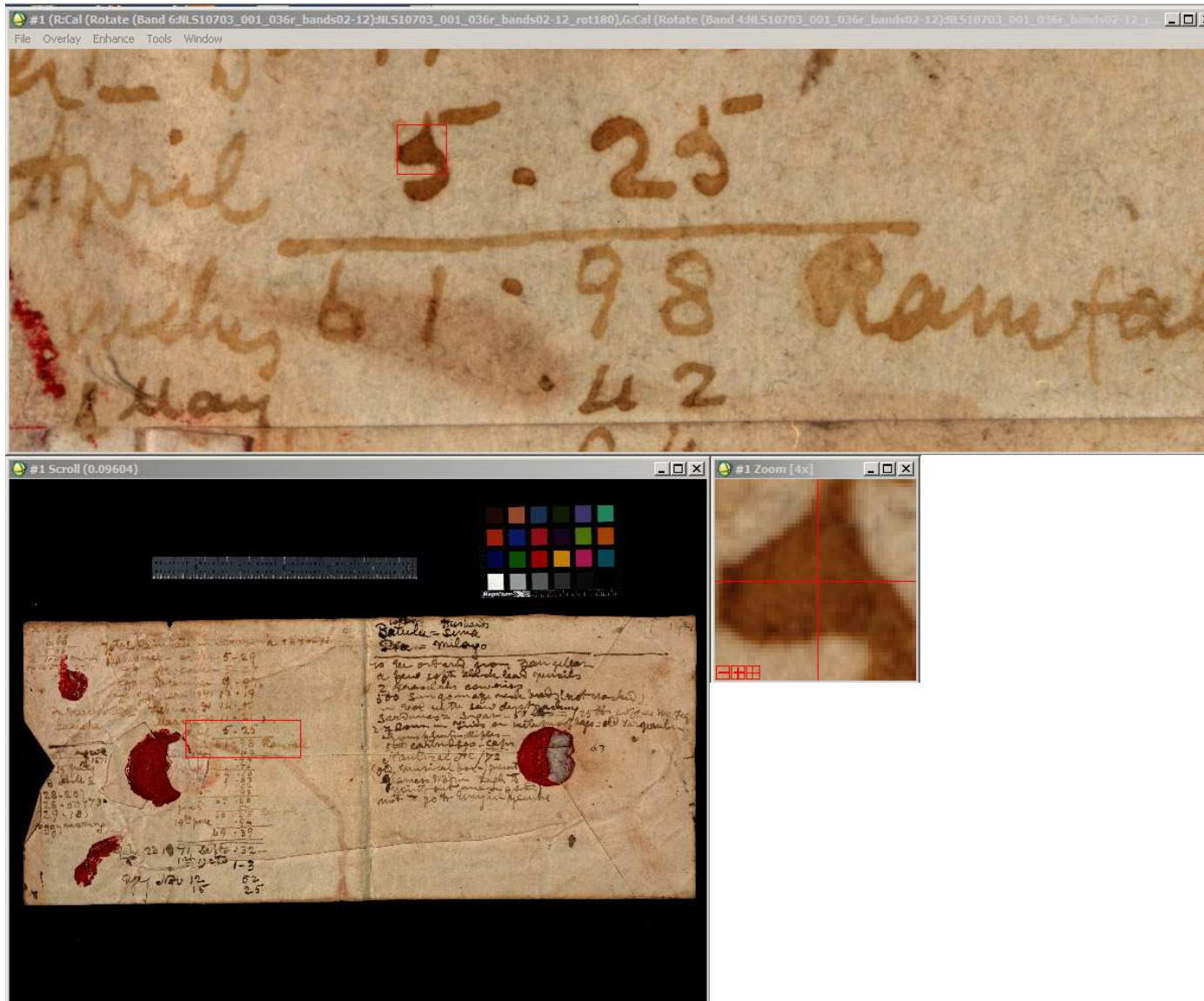
NLS10703_001_036r_SpectrumA



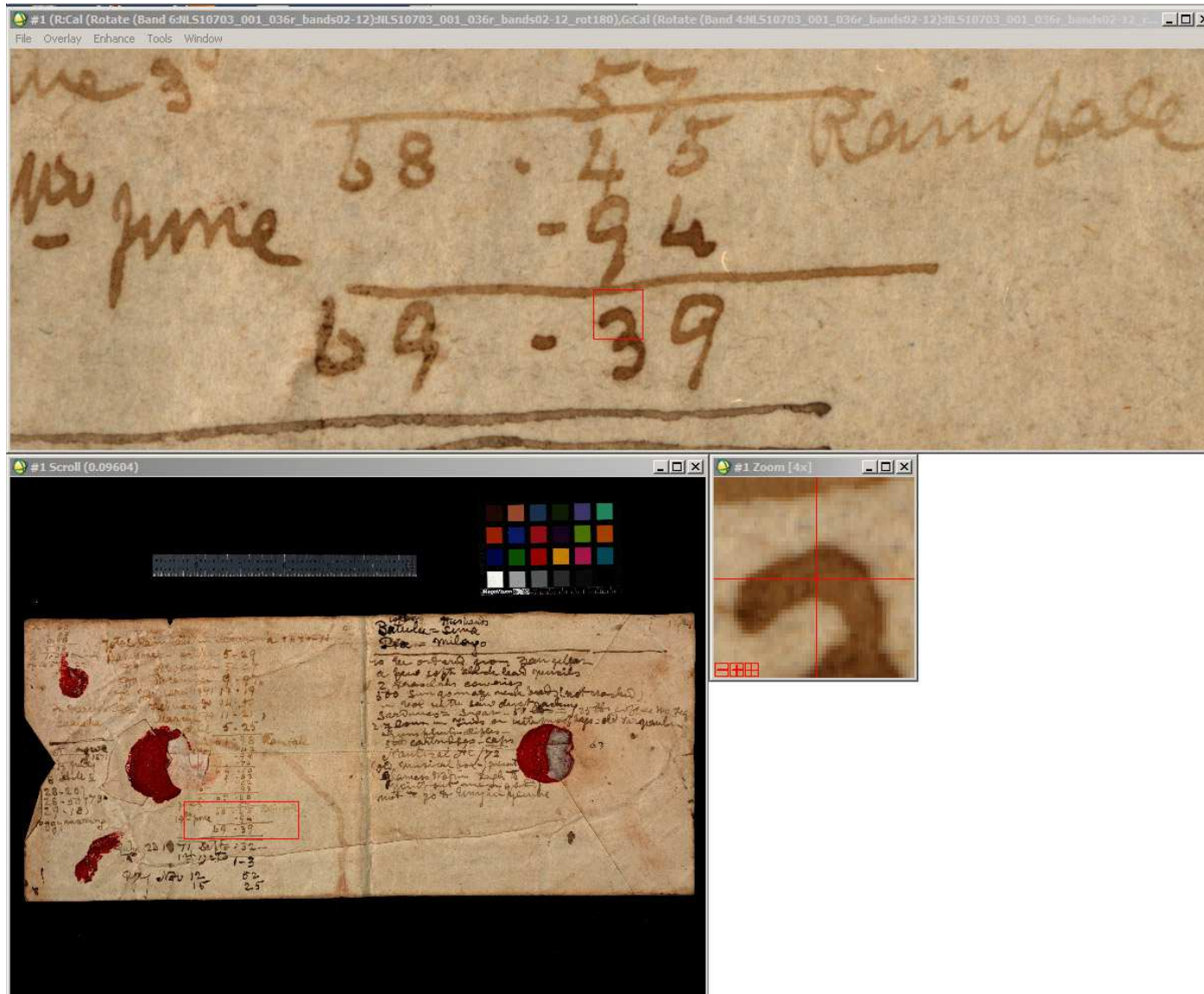
NLS10703_001_036r_SpectrumB



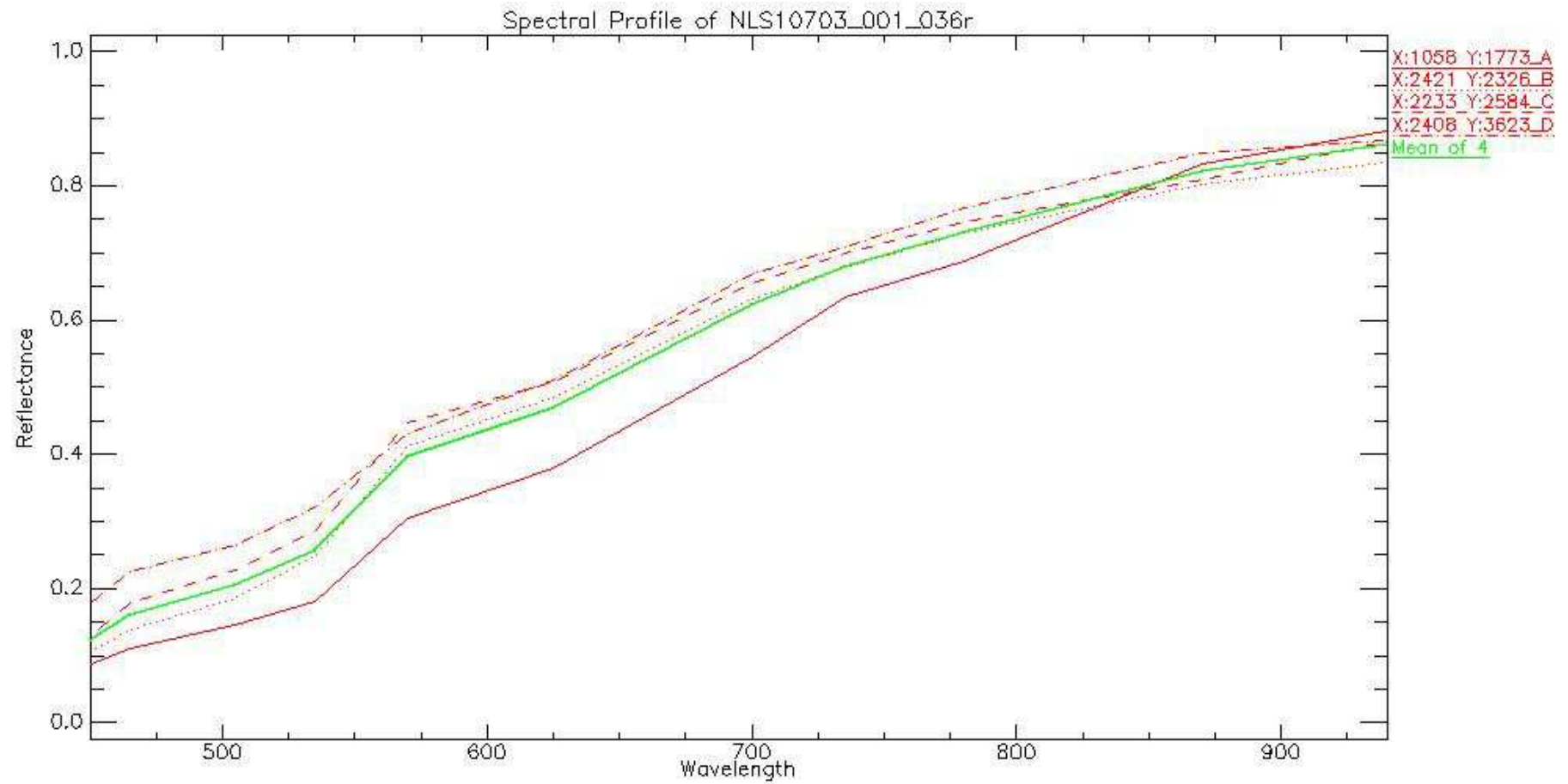
NLS10703_001_036r_SpectrumC



NLS10703_001_036r_SpectrumD



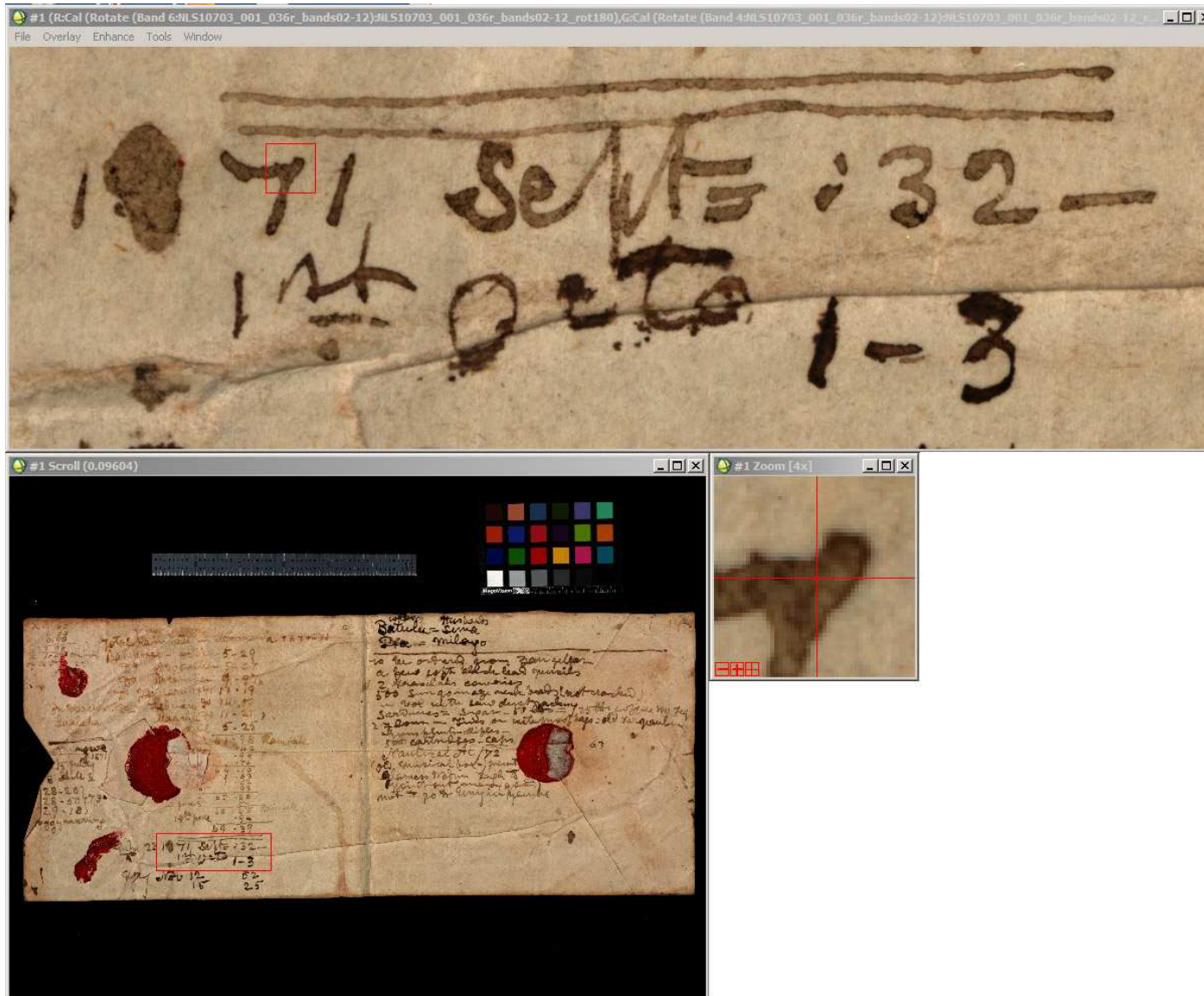
Spectra of Red Ink on NLS10703_001_036r



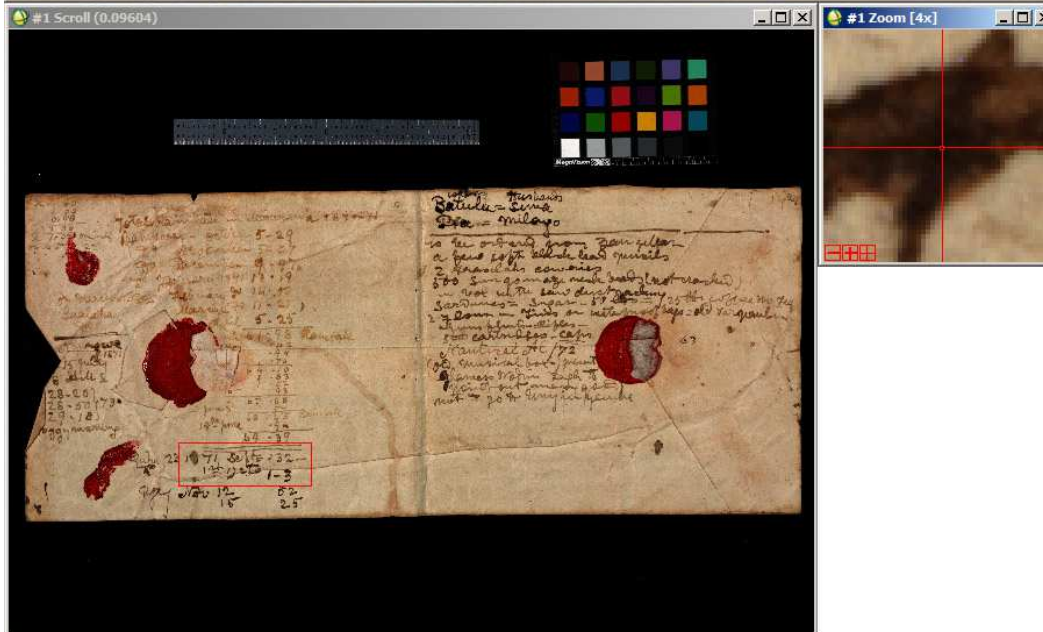
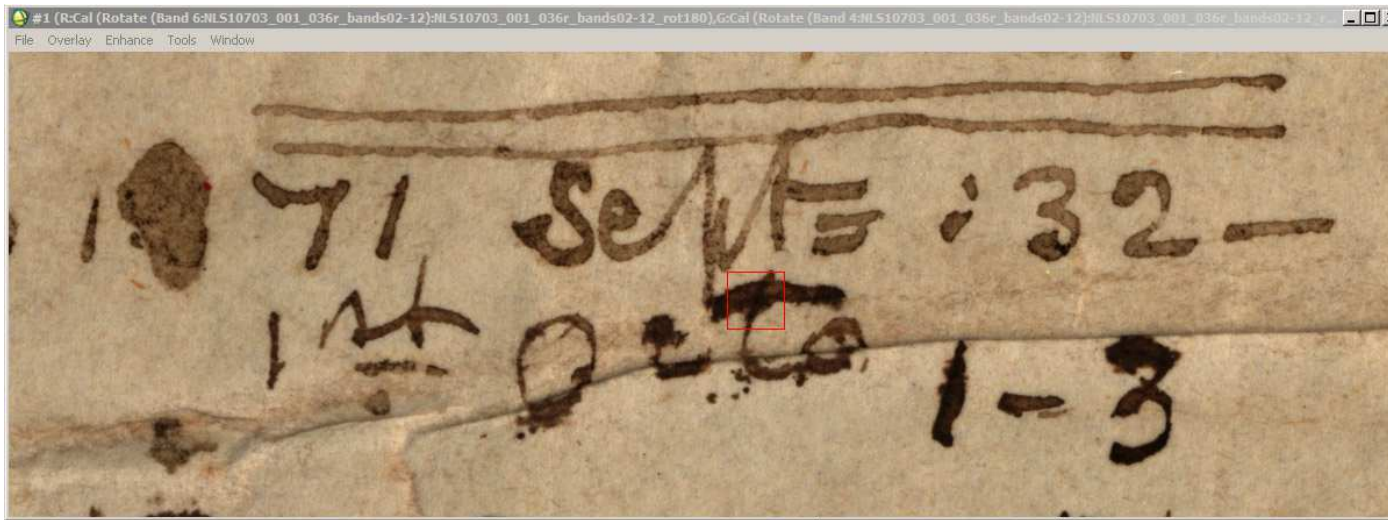
NLS10703_001_036r

Brown Ink Spectra

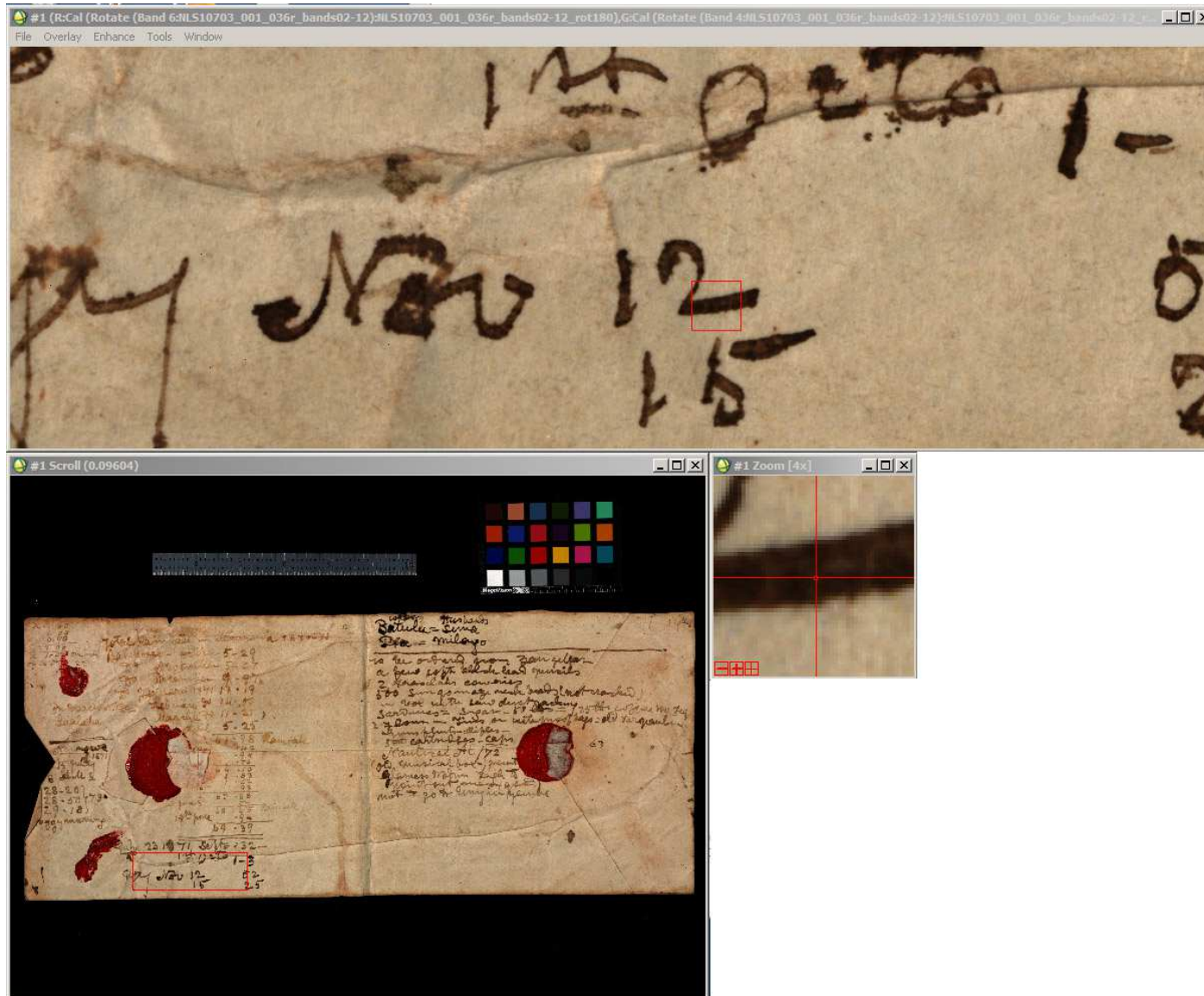
NLS10703_001_036r_SpectrumE



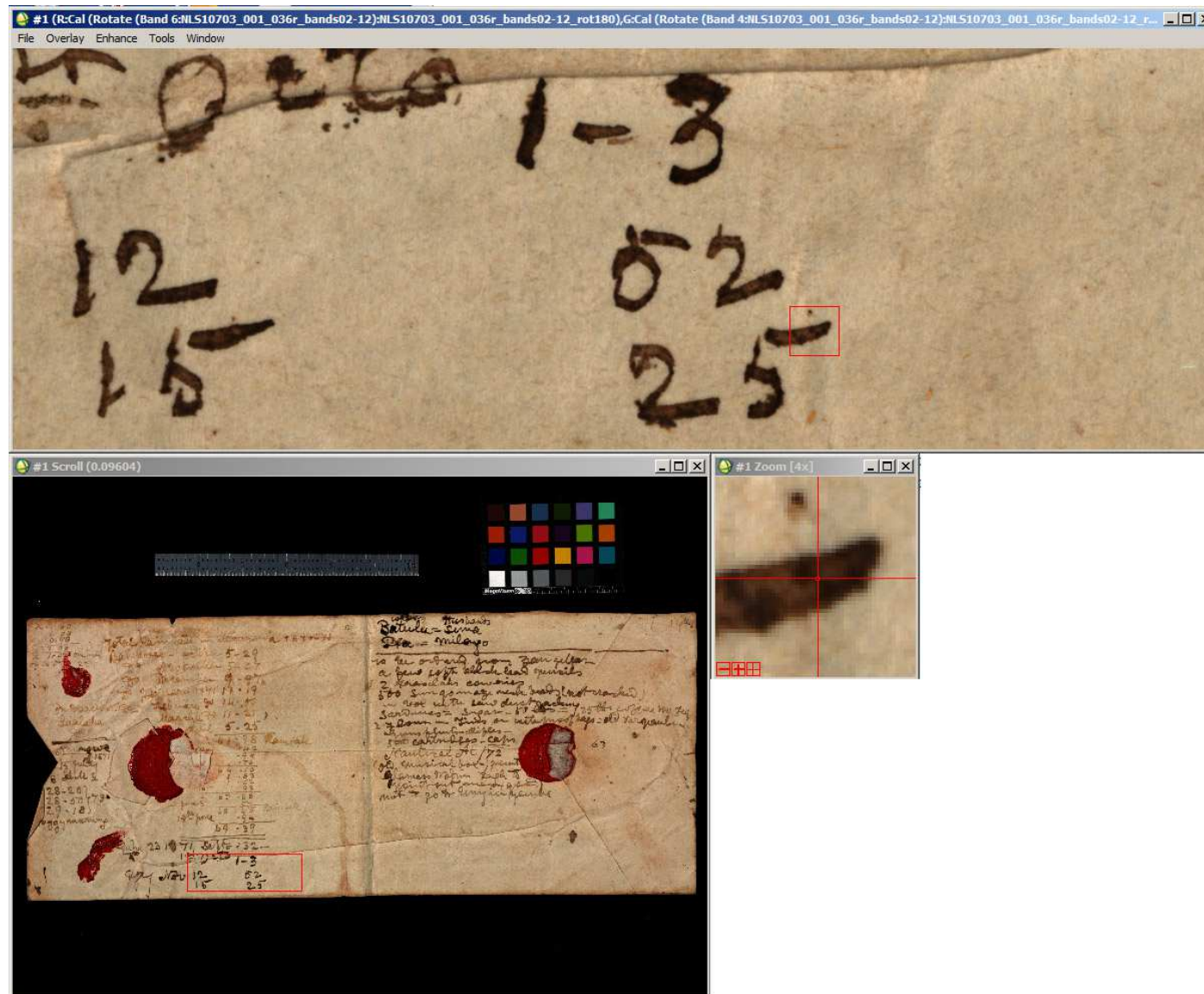
NLS10703_001_036r_SpectrumF



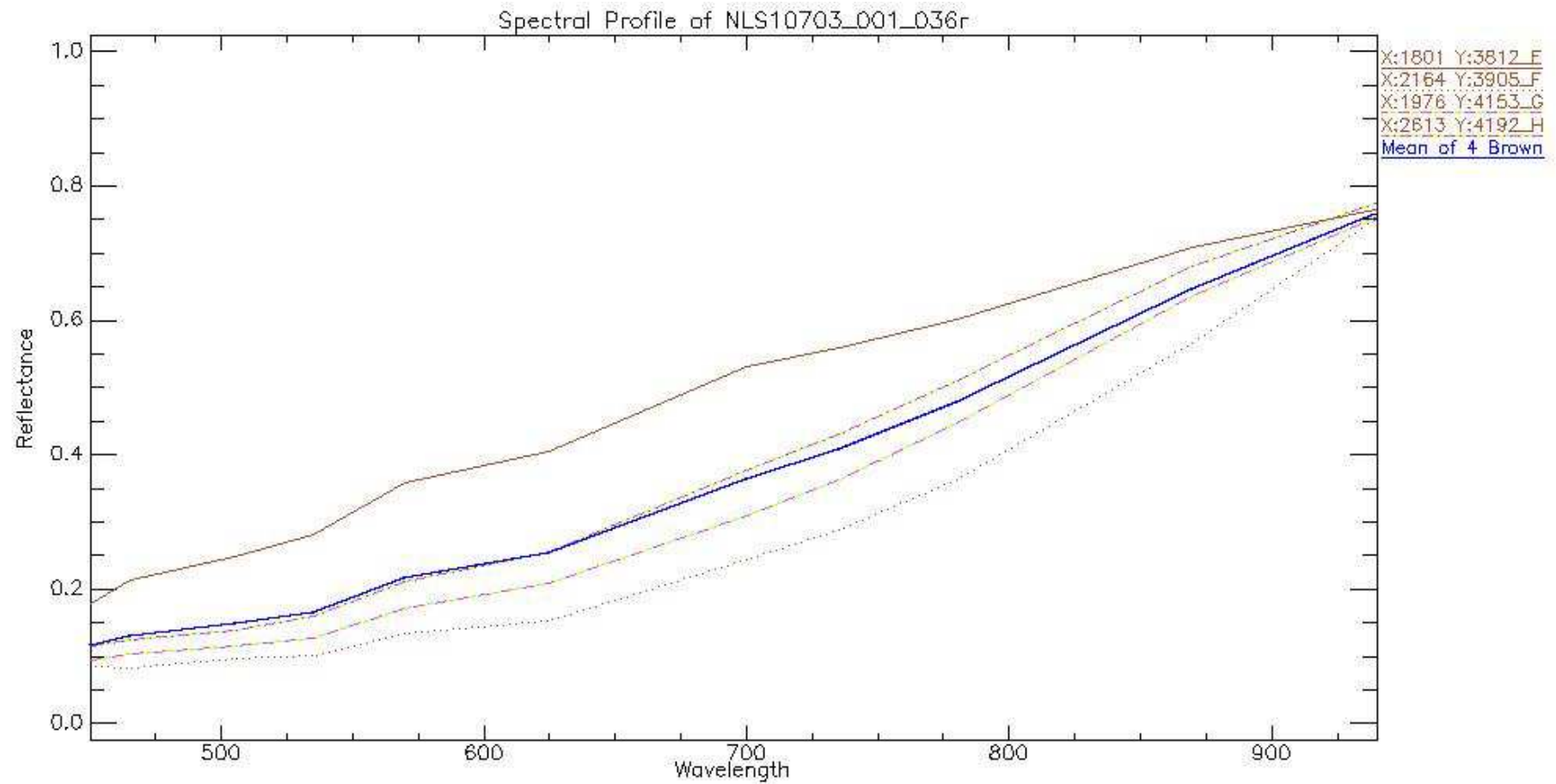
NLS10703_001_036r_SpectrumG



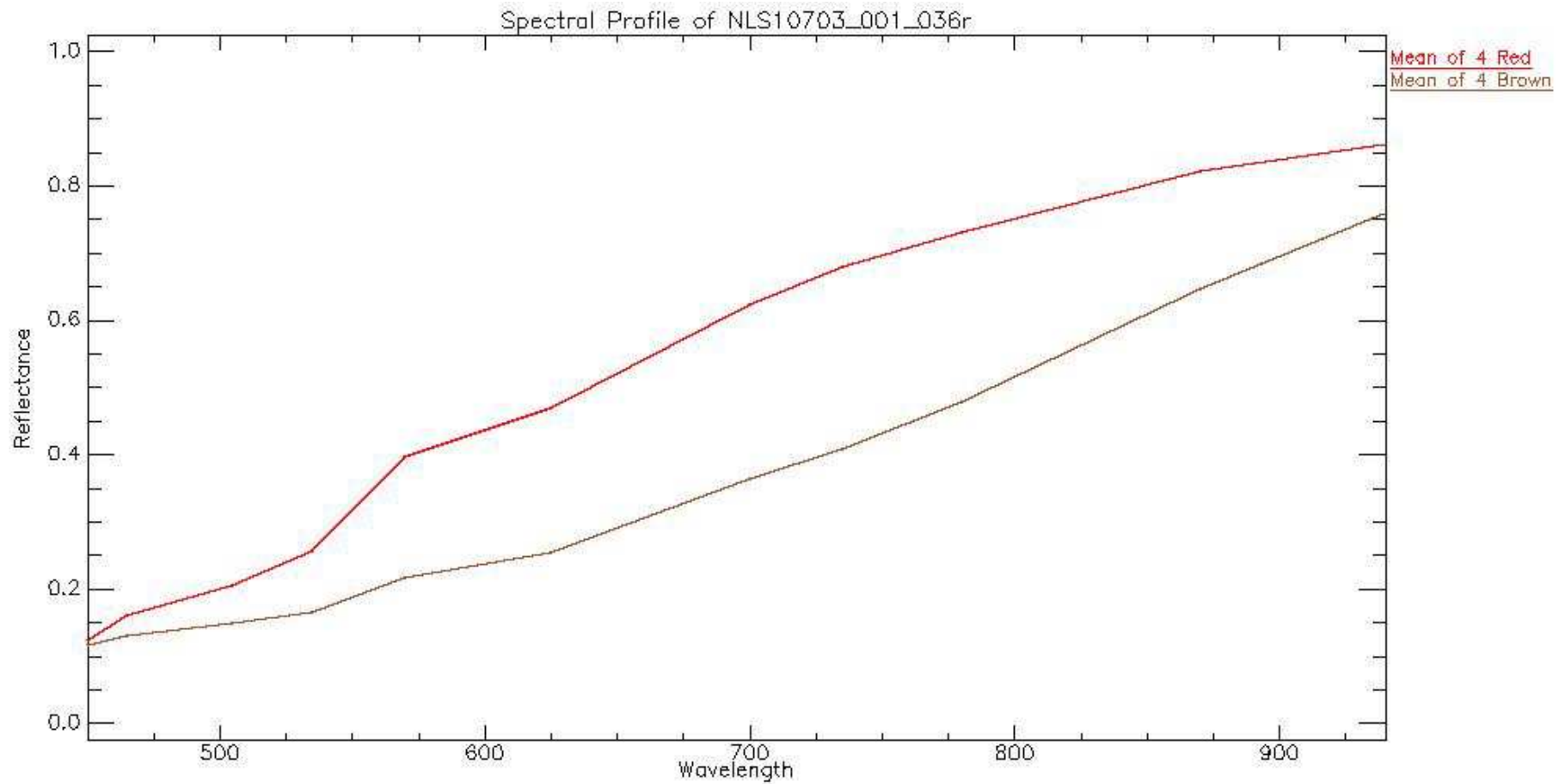
NLS10703_001_036r_SpectrumH



Spectra of Brown Ink on NLS10703_001_036r



Mean Spectra of Red and Brown Ink on NLS10703_001_036r



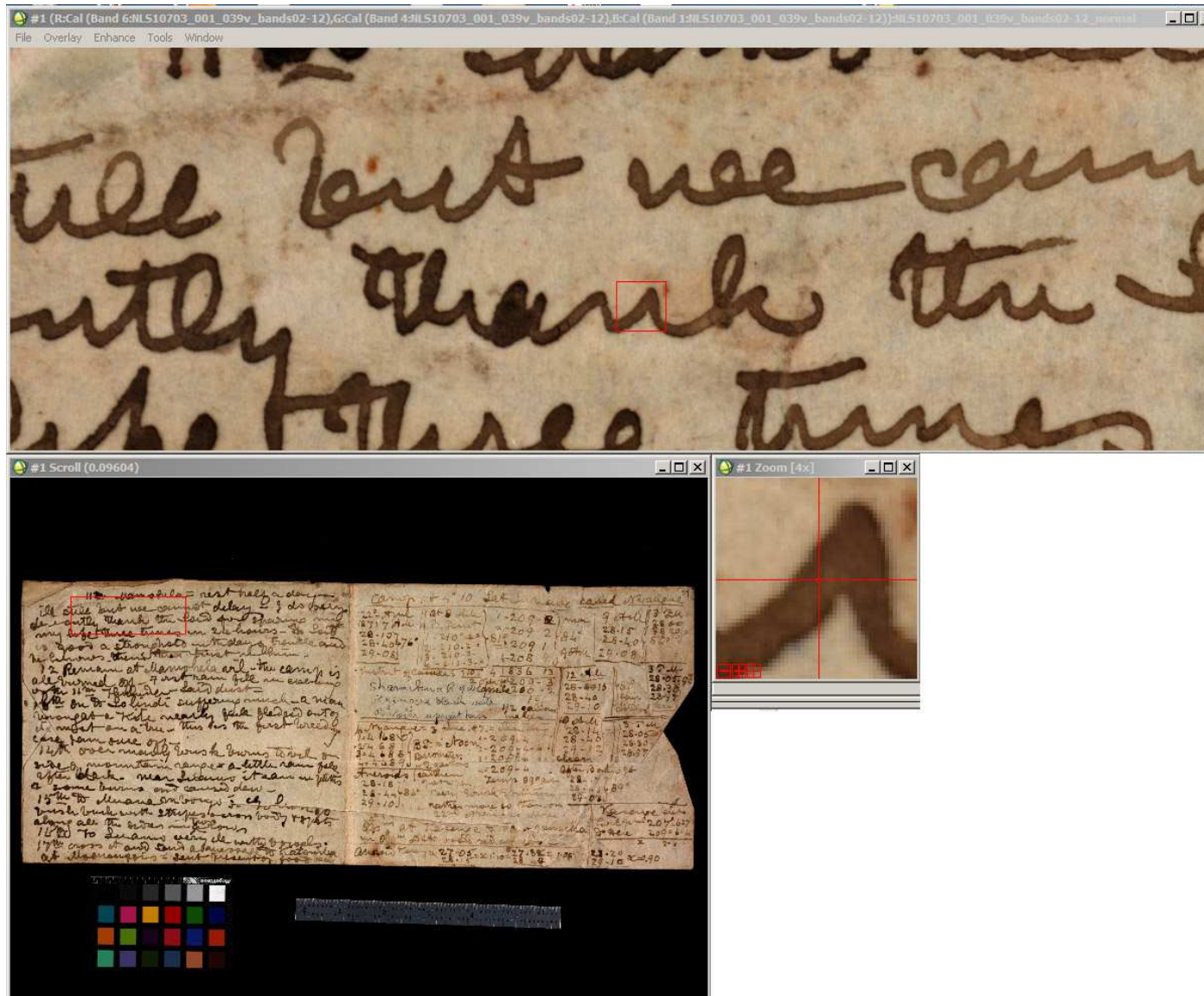
NLS10703_001_039v

Brown Ink Spectra

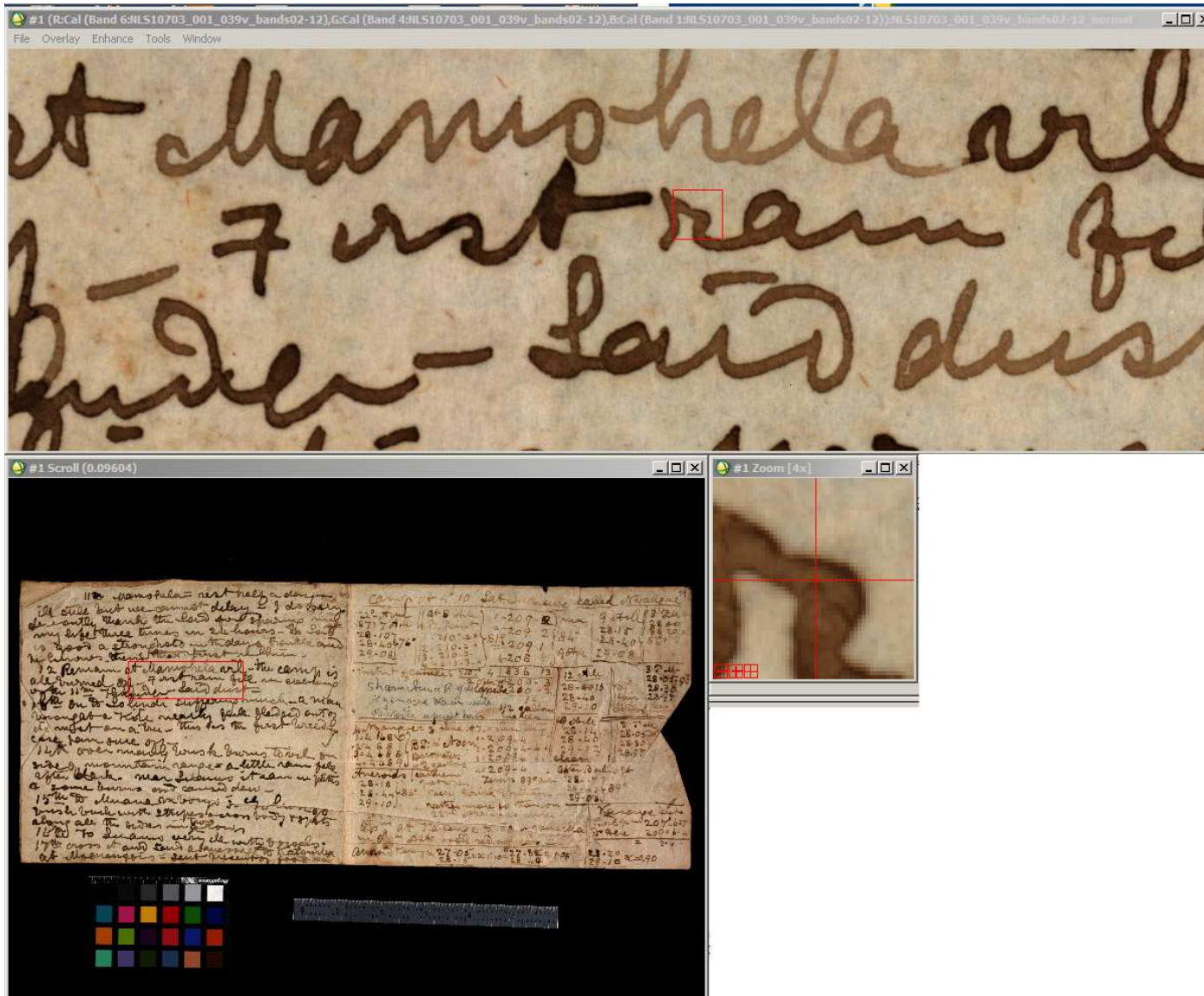
11th Mamphela = rest half a day -
 all well but we cannot delay = I do very
 honestly thank the Lord for sparing my
 my life three times in 24 hours - The Lord
 is good a stronghold in the day of trouble and
 his power ~~there~~ ^{is} trust in him -
 12th Remained at Mamphela a/c - the camp is
 all burned off - First rain fell in evening
 on the 11th - Thunder - sand dust -
 13th on to Solindi supper much - a man
 brought a kite nearly full fledged out of
 its nest on a tree - this was the first breeding
 case I am sure of -
 14th over nearly bush burns to and on
 side of mountain range = a little rain fell
 after dark - near Luanos it a/c in flocks
 a some burn and caused dew -
 15th to Moenengoi's - ch. l.
 bush back with stripes across body & legs
 along all the sides in flocks
 16th To Luanos very close with vossels.
 17th cross it and land above ~~near~~ ^{to} Khatumbi
 at Moenengoi's = sent messenger for a pack

[illegible]

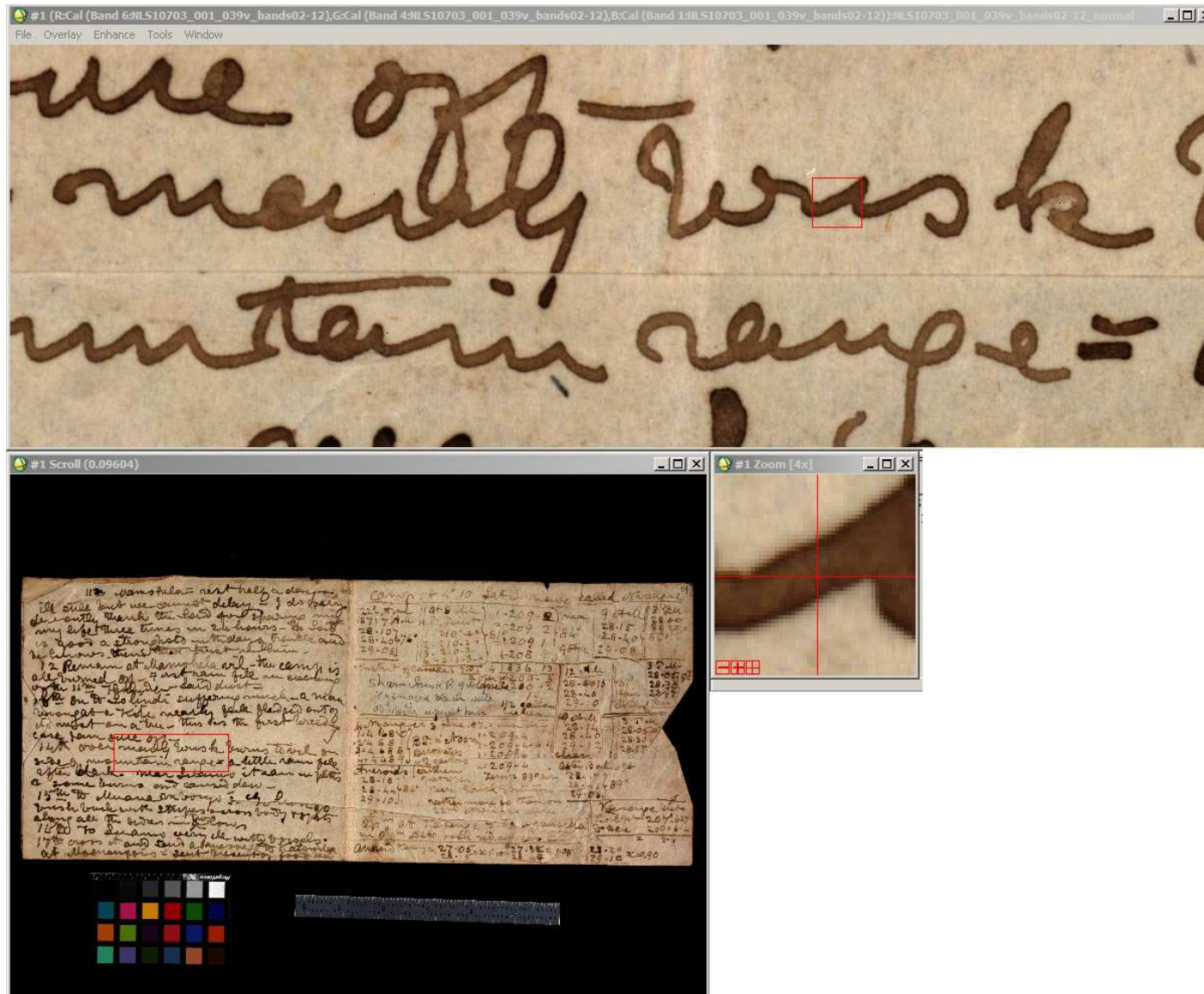
NLS10703_001_039v_SpectrumA



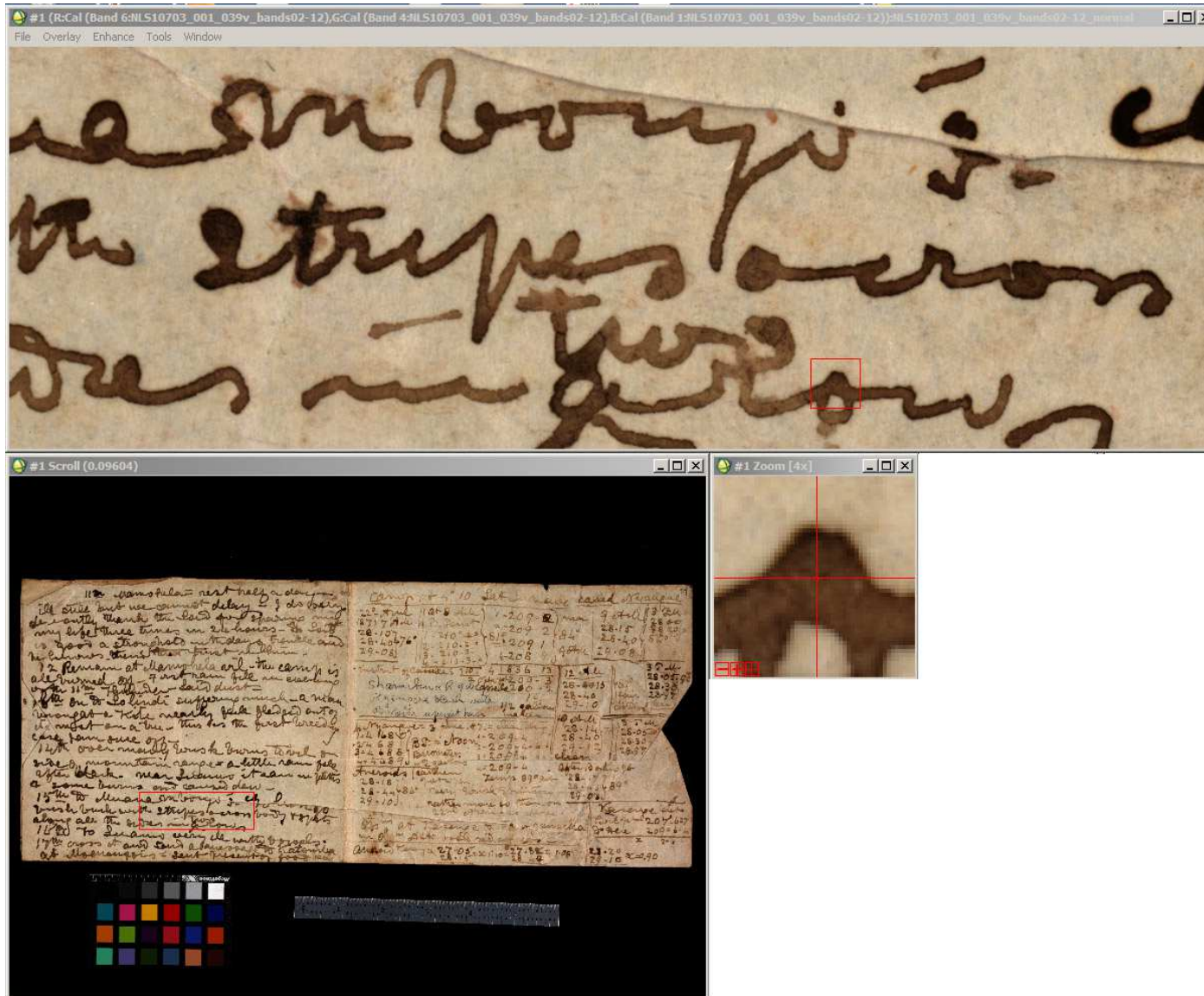
NLS10703_001_039v_SpectrumB



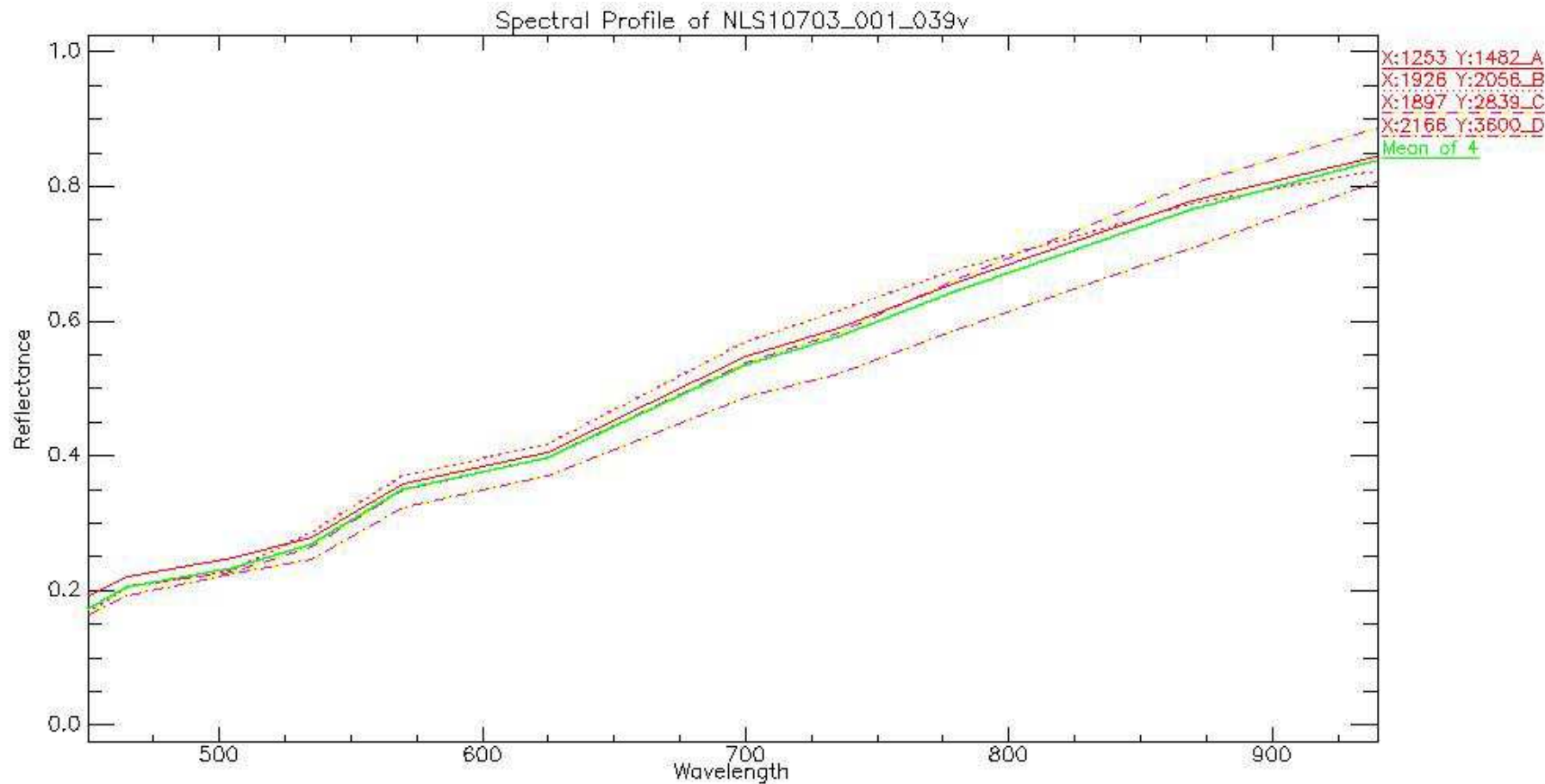
NLS10703_001_039v_SpectrumC



NLS10703_001_039v_SpectrumD



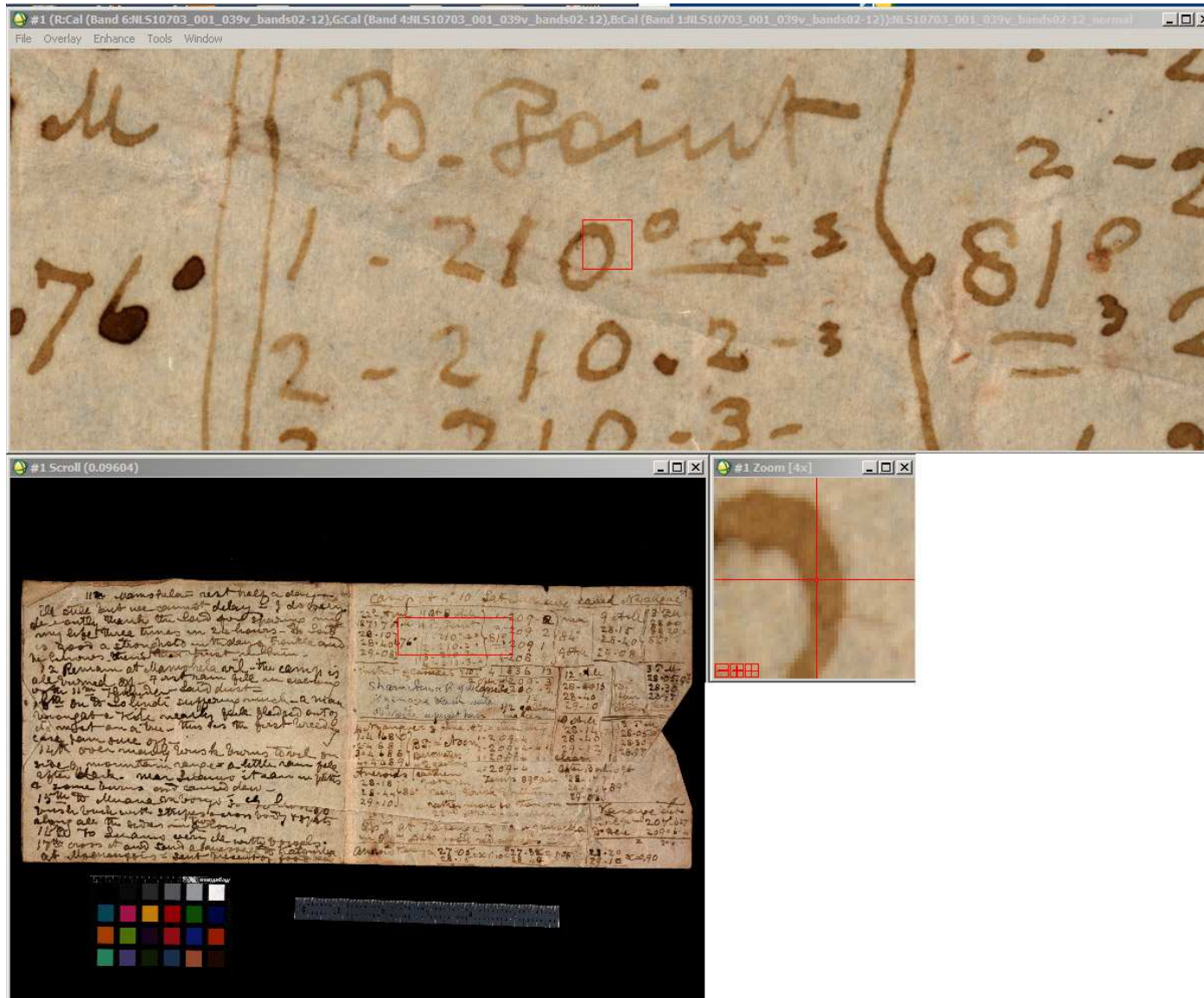
Spectra and Mean of Brown Ink on NLS10703_001_039v



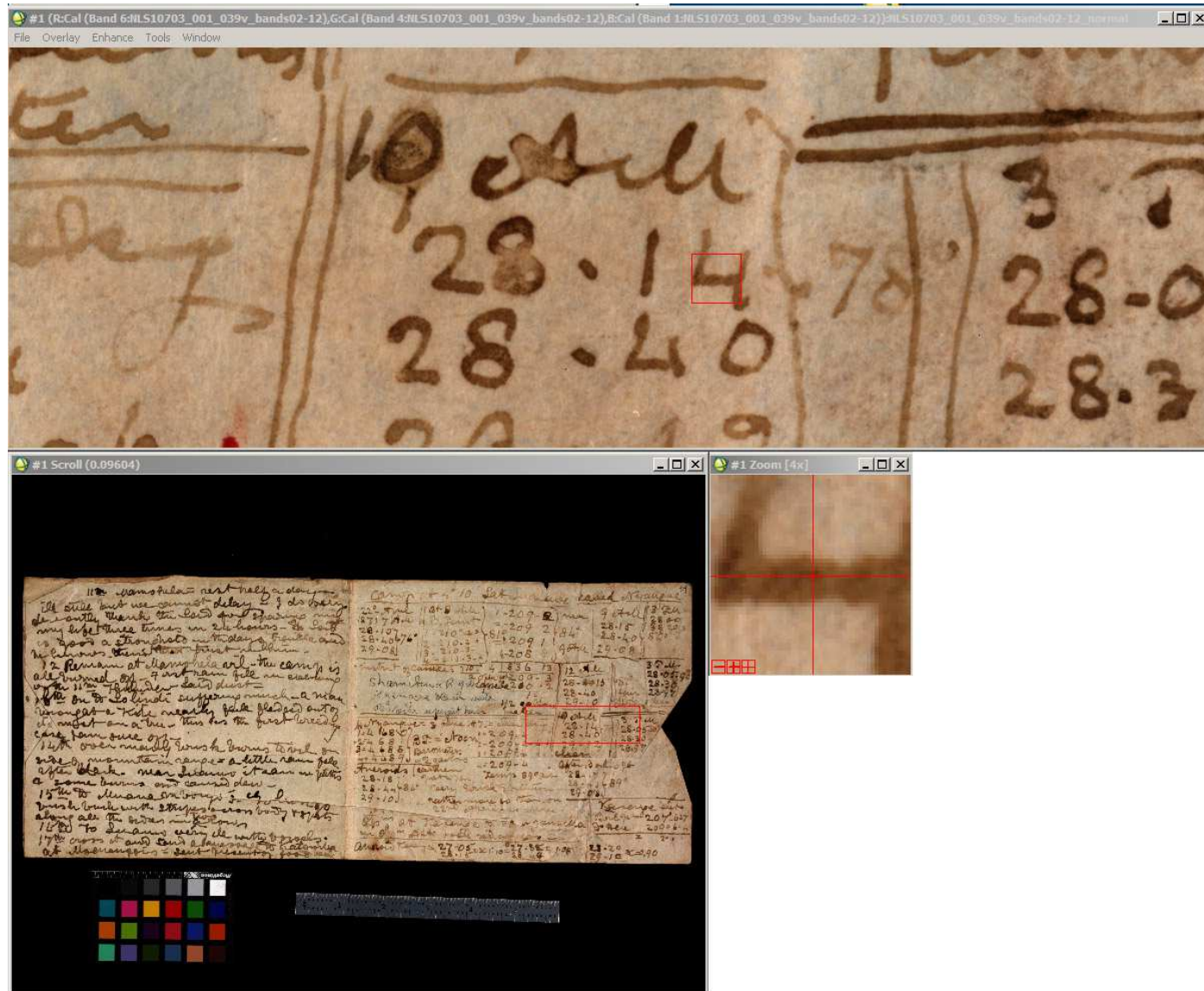
NLS10703_001_039v

Orange Ink Spectra

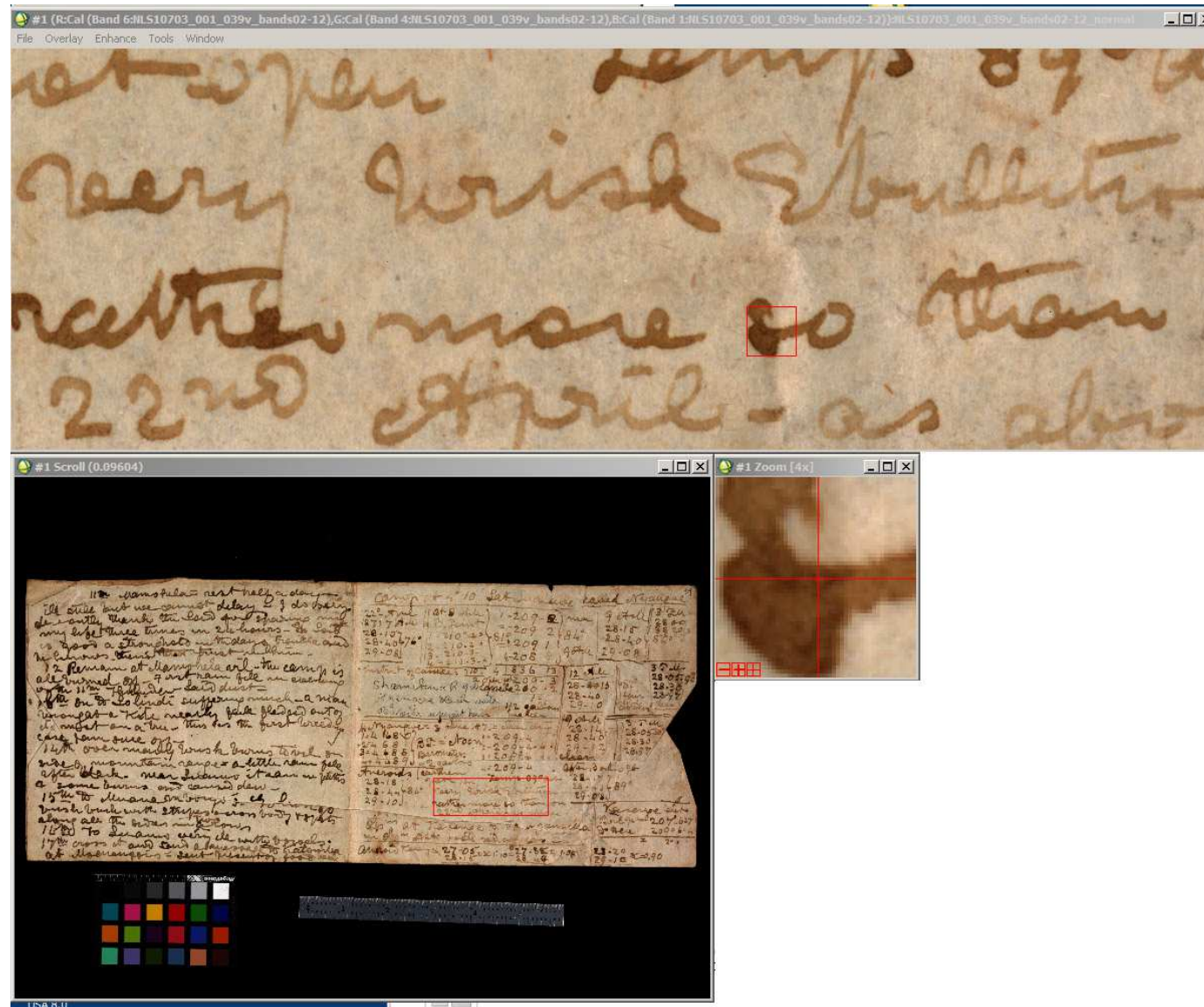
NLS10703_001_039v_SpectrumE



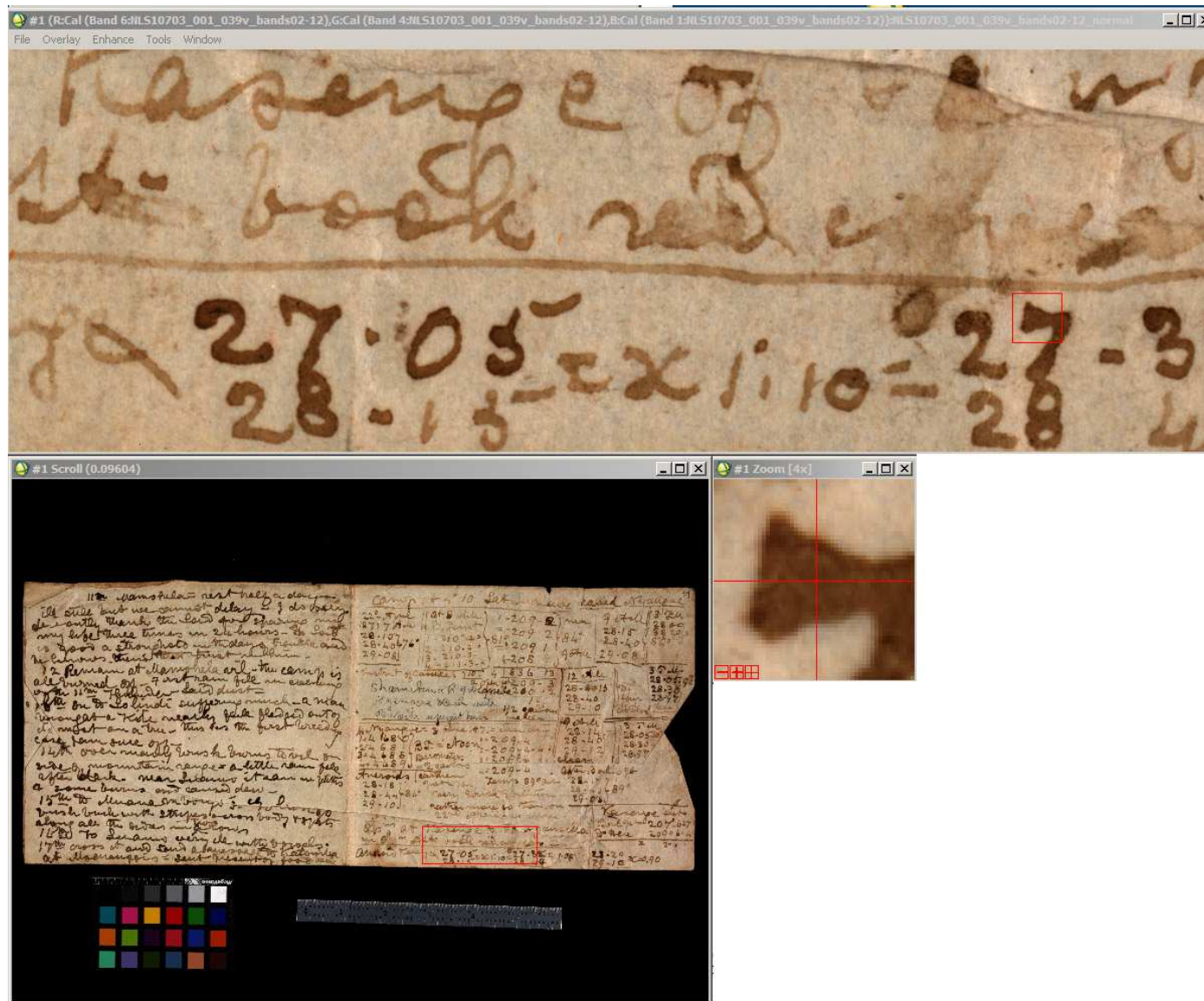
NLS10703_001_039v_SpectrumF



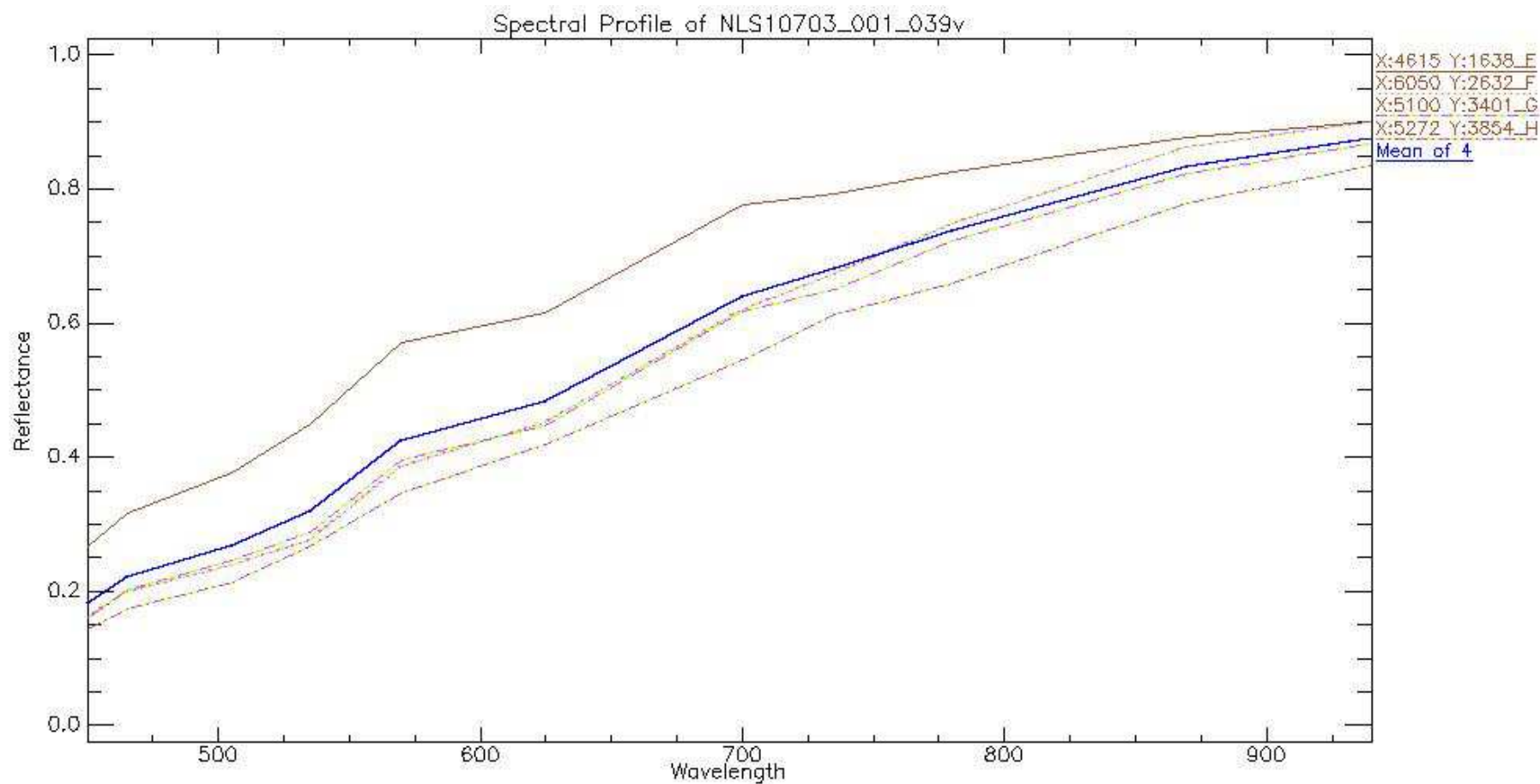
NLS10703_001_039v_SpectrumG



NLS10703_001_039v_SpectrumH



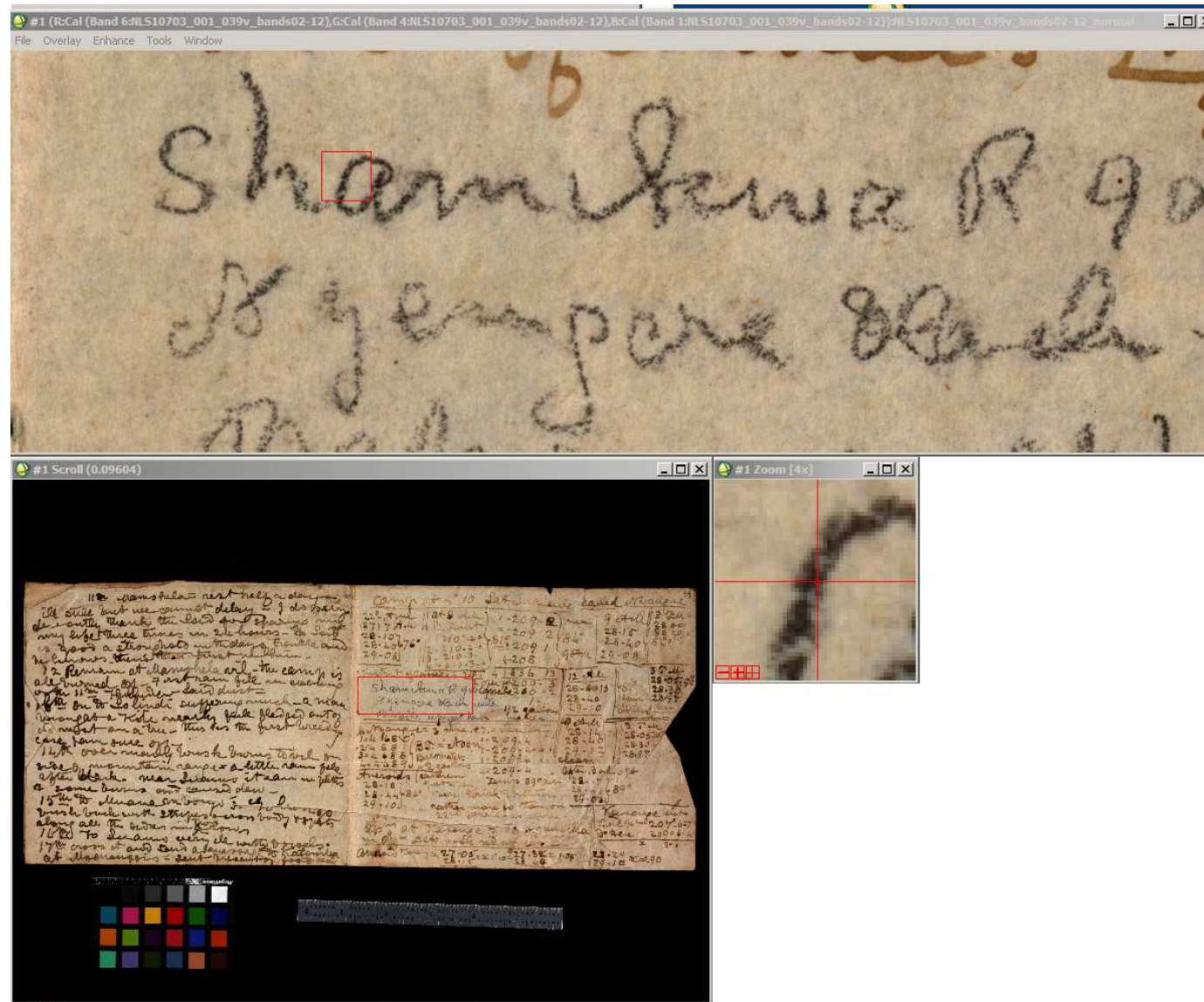
Spectra and Mean of Red Ink on NLS10703_001_039v



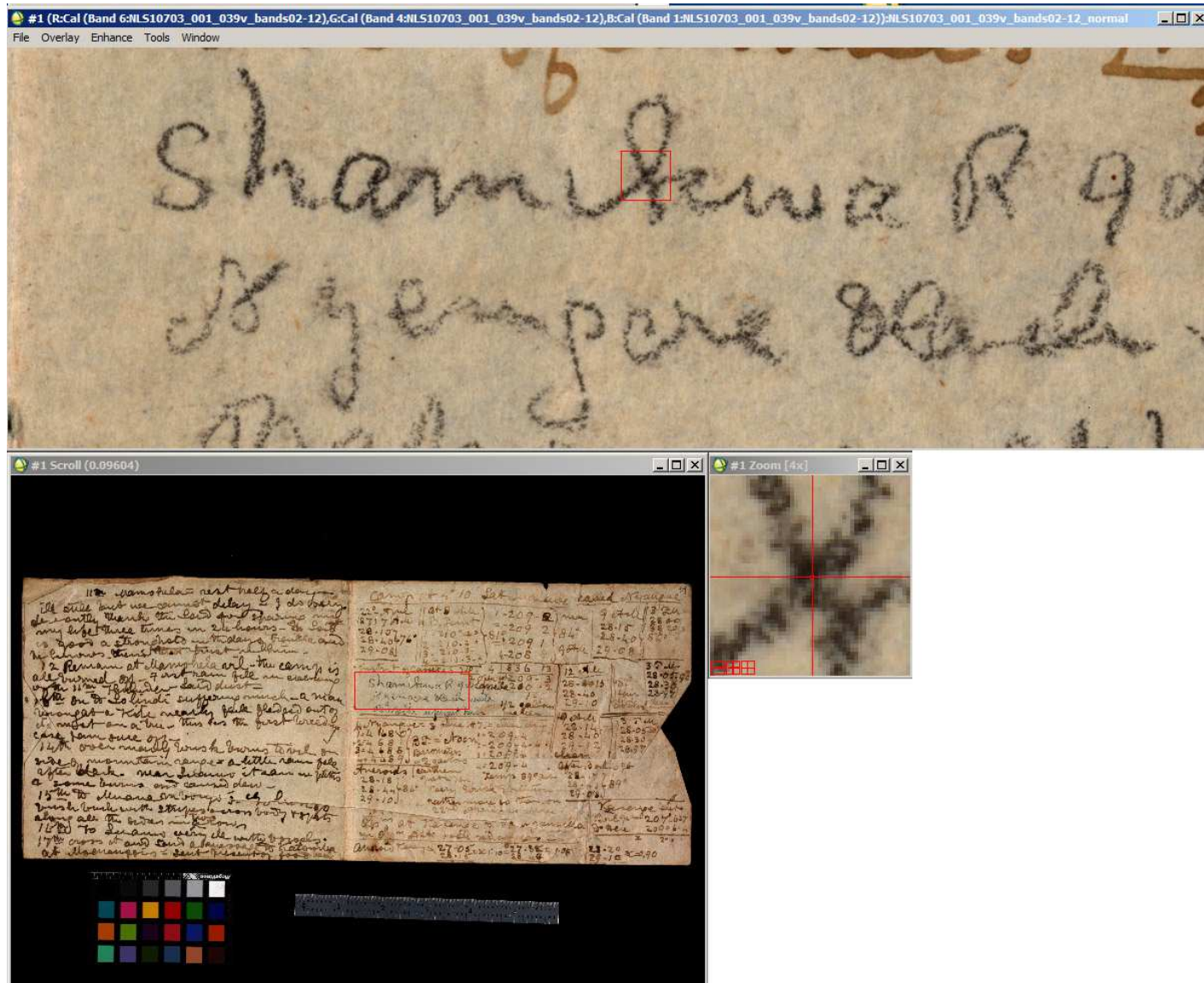
NLS10703_001_039v

Graphite Spectra

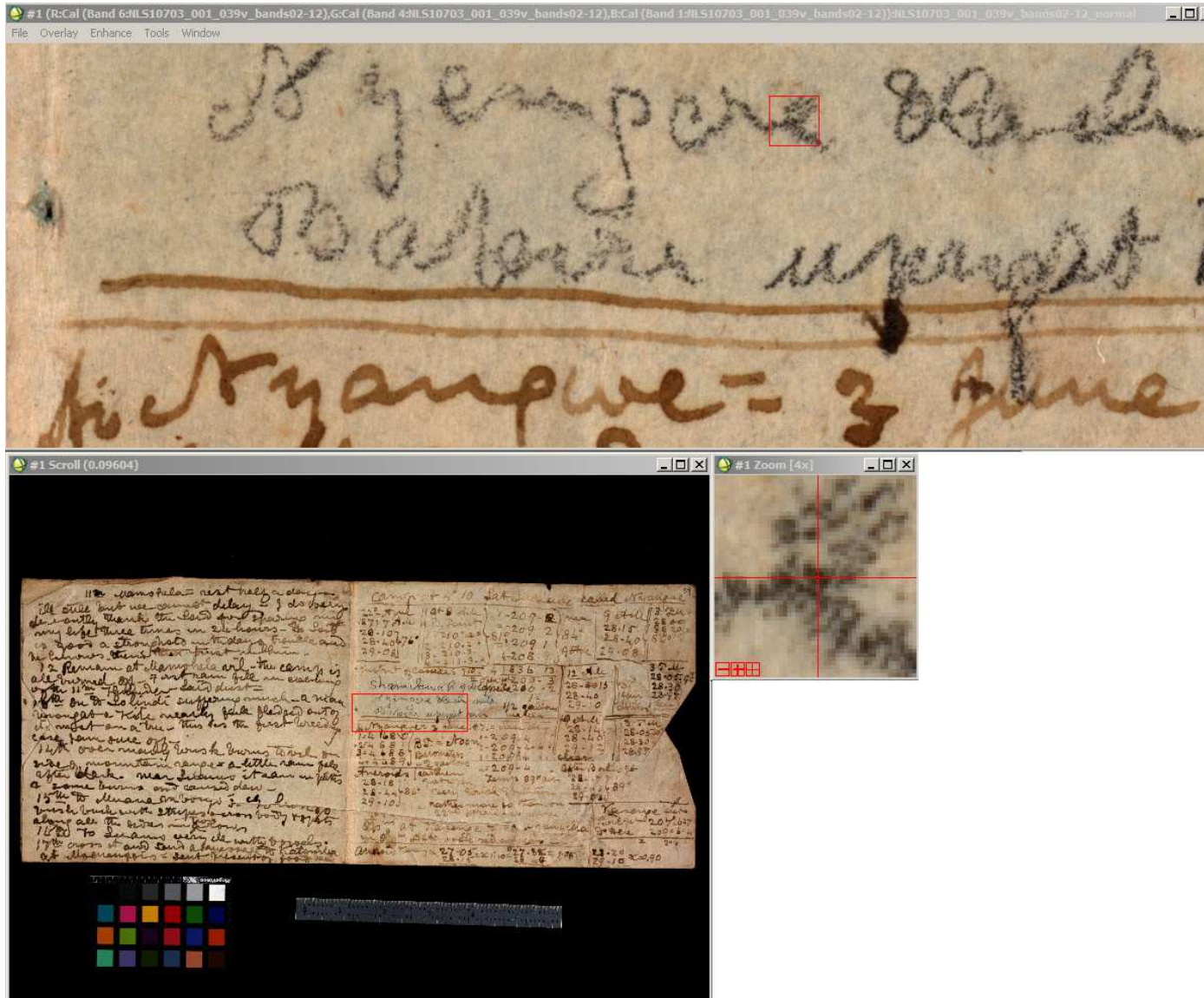
NLS10703_001_039v_Pencil1



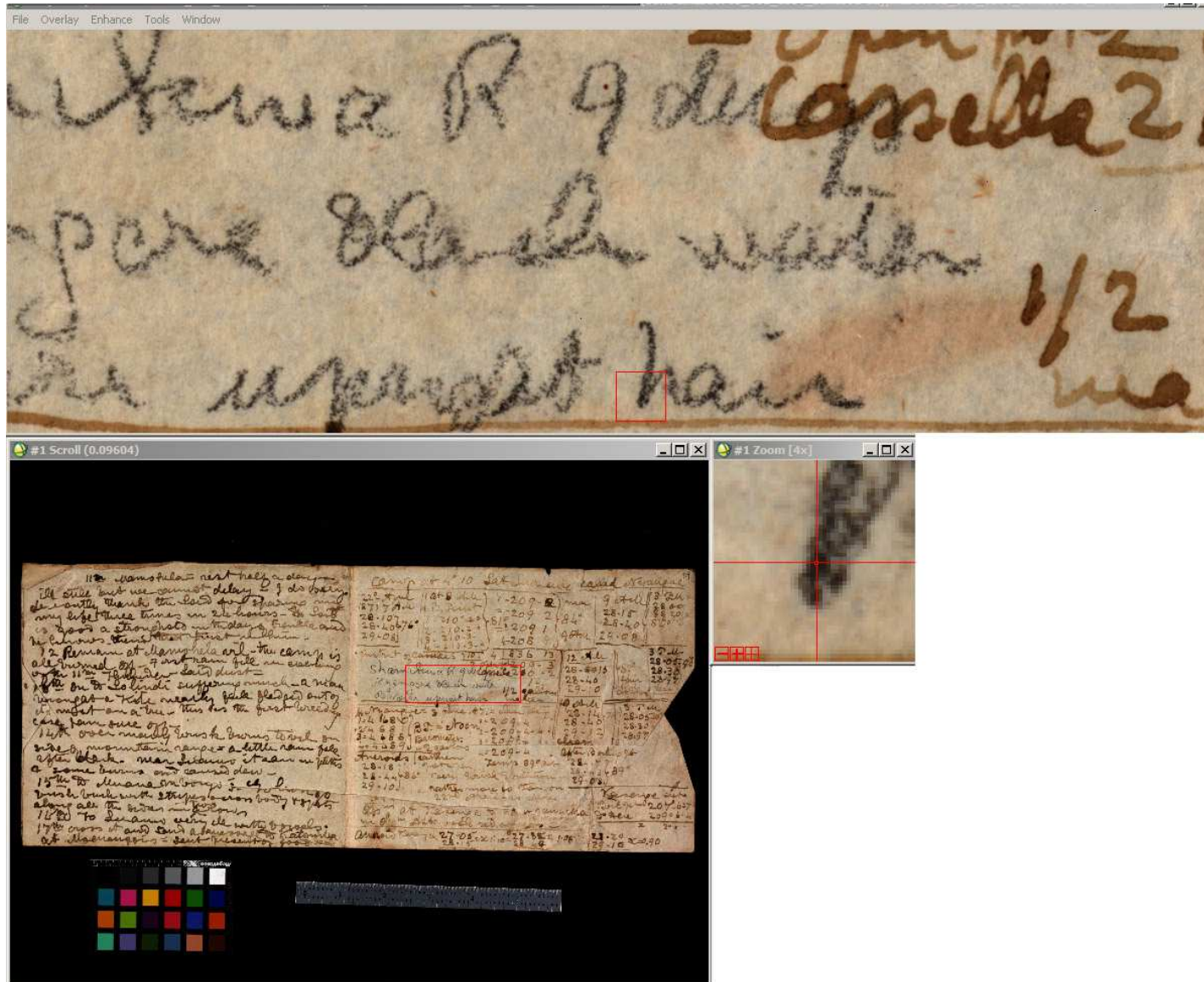
NLS10703_001_039v_Pencil2



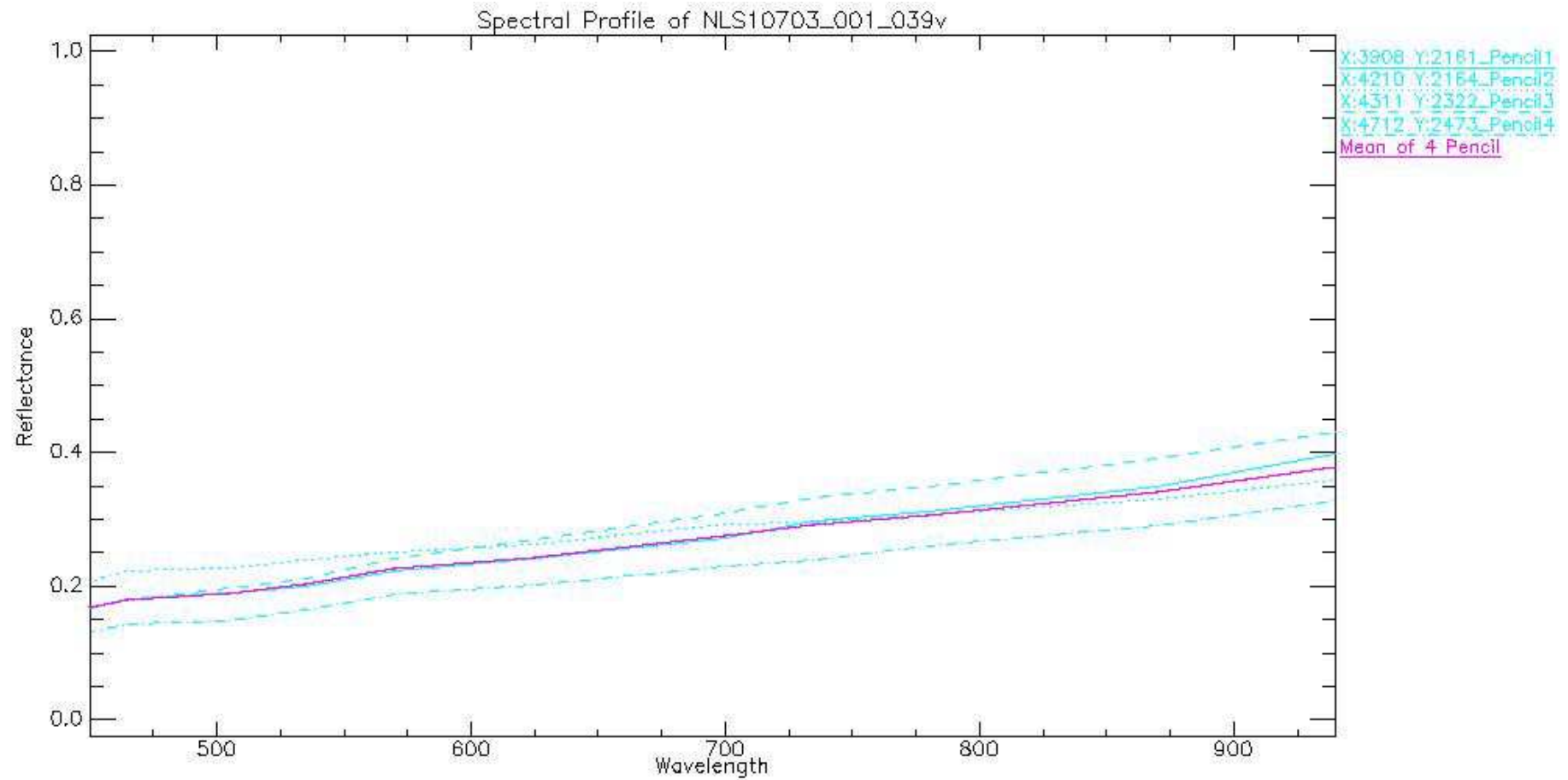
NLS10703_001_039v_Pencil3



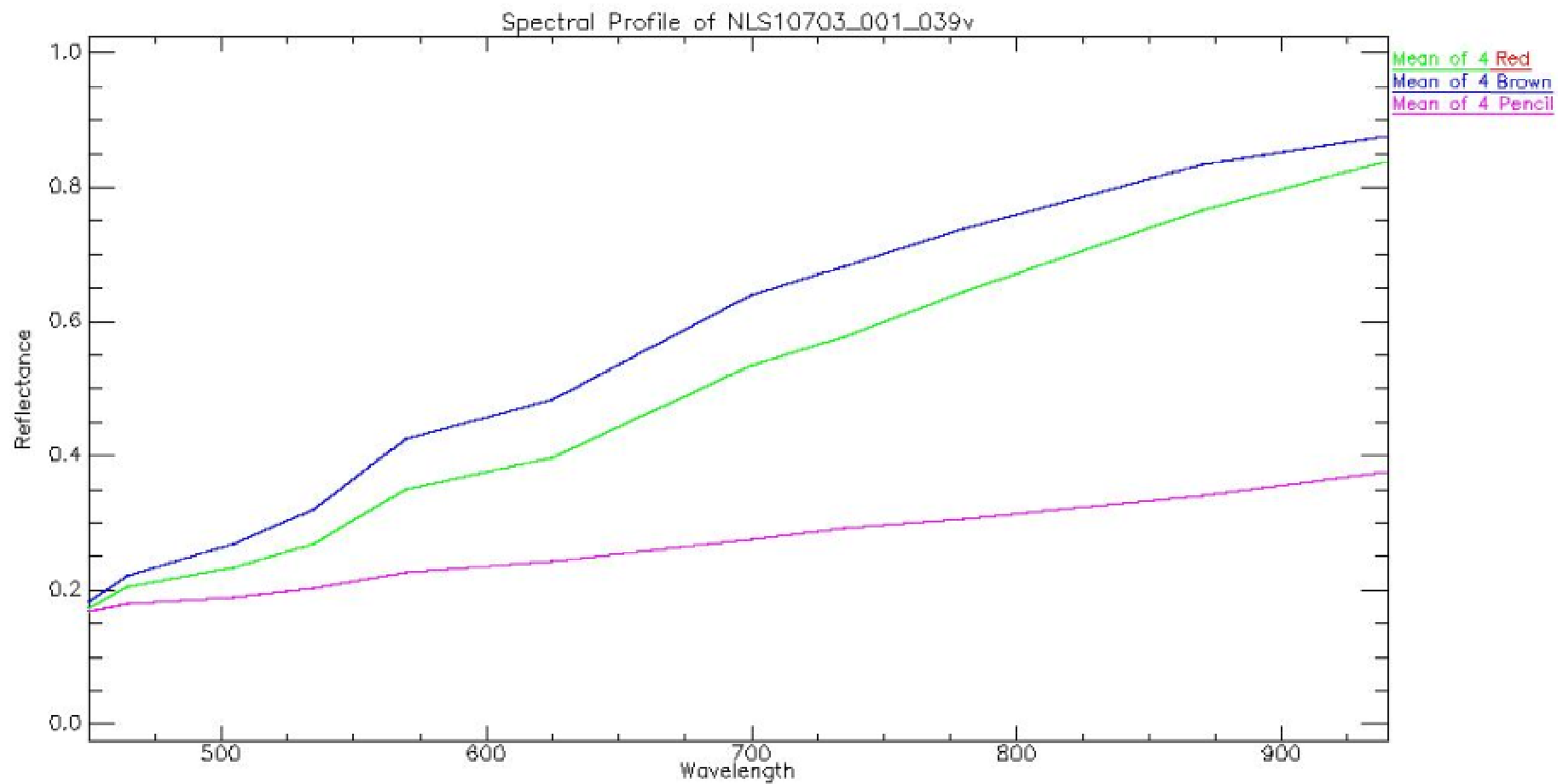
NLS10703_001_039v_Pencil4



Spectra and Mean of Graphite on NLS10703_001_039v



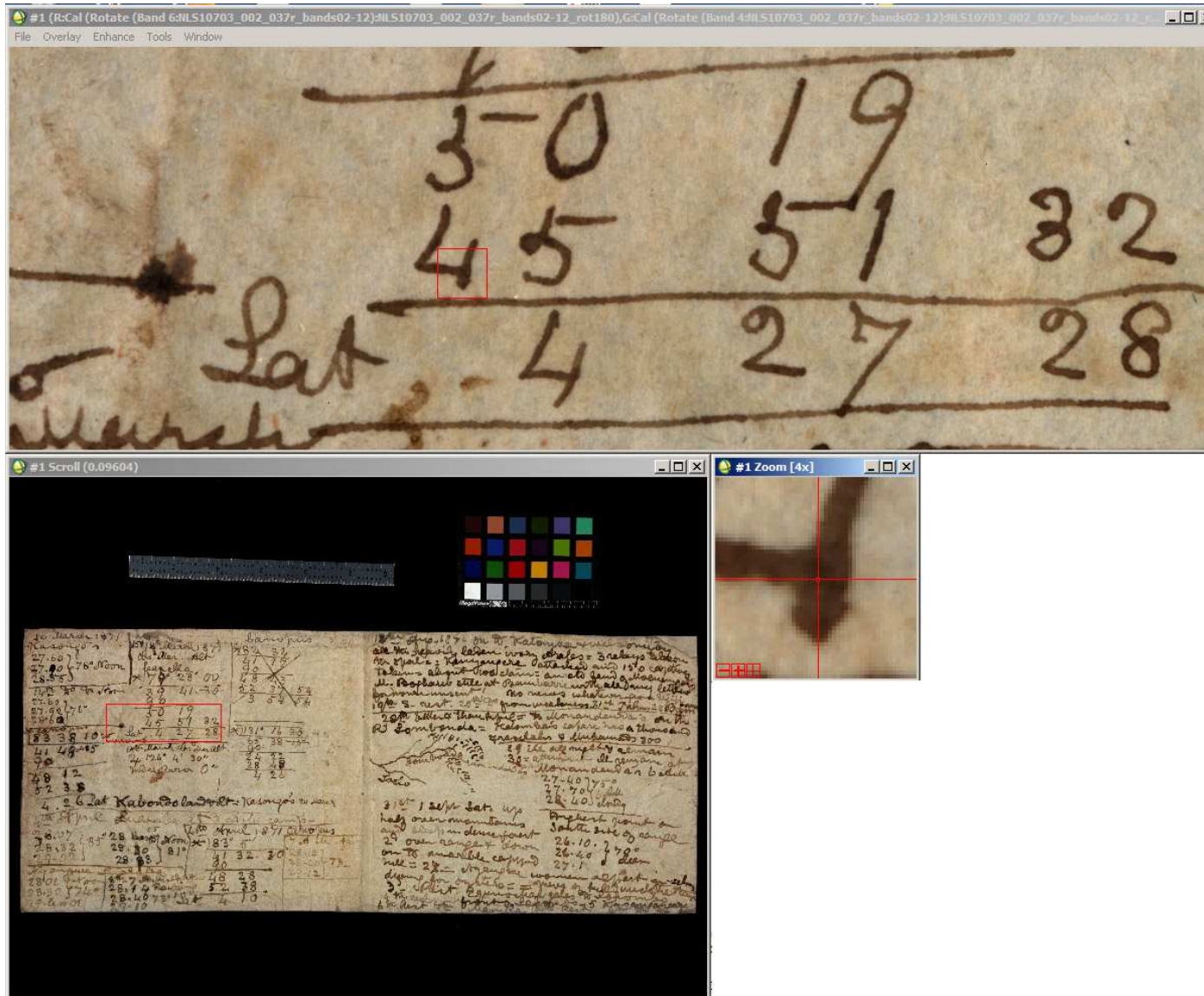
Spectra and Mean of Ink & Graphite Spectra on NLS10703_001_039v



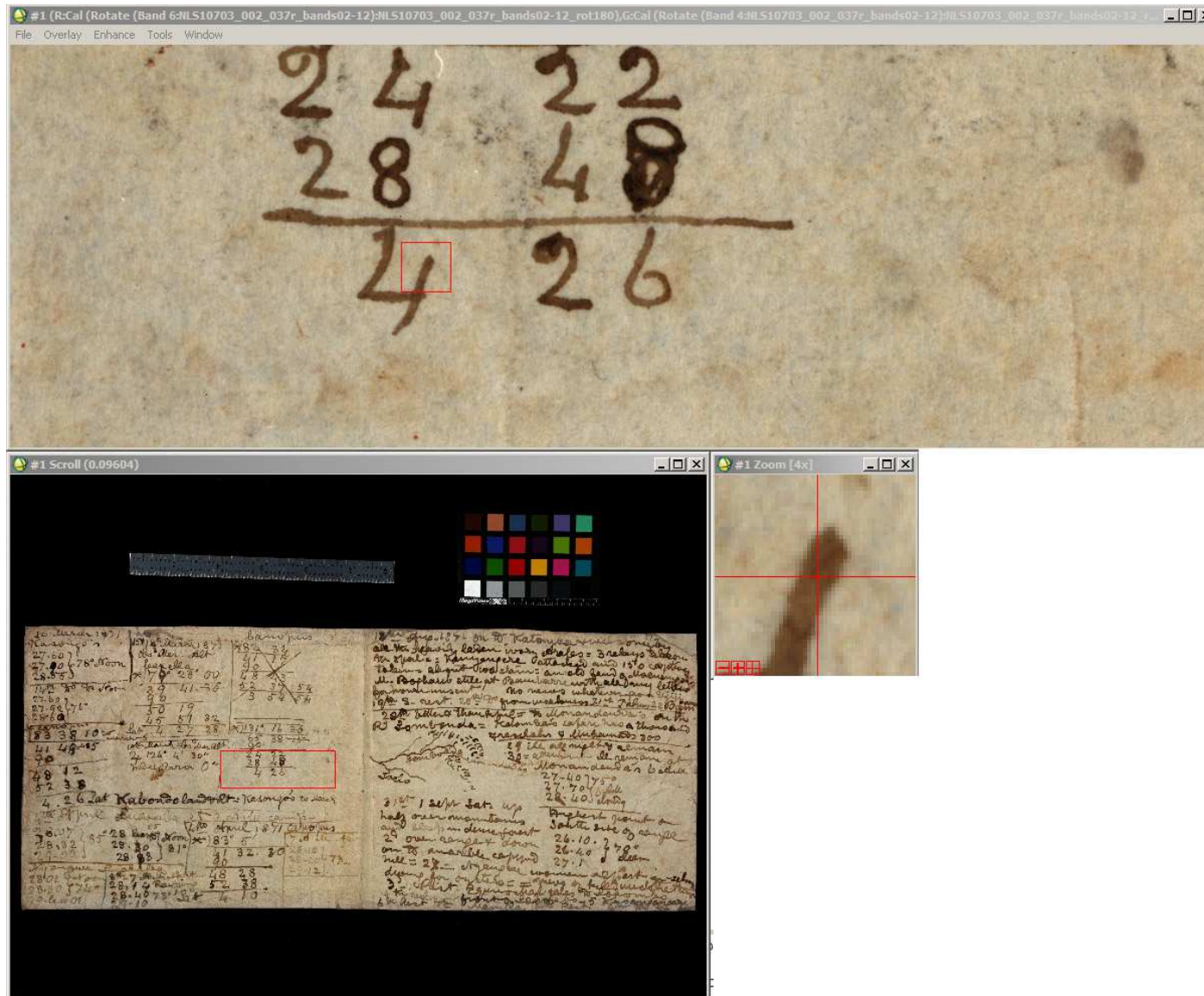
NLS10703_001_037r

Spectra of Inks on Left-Hand Side

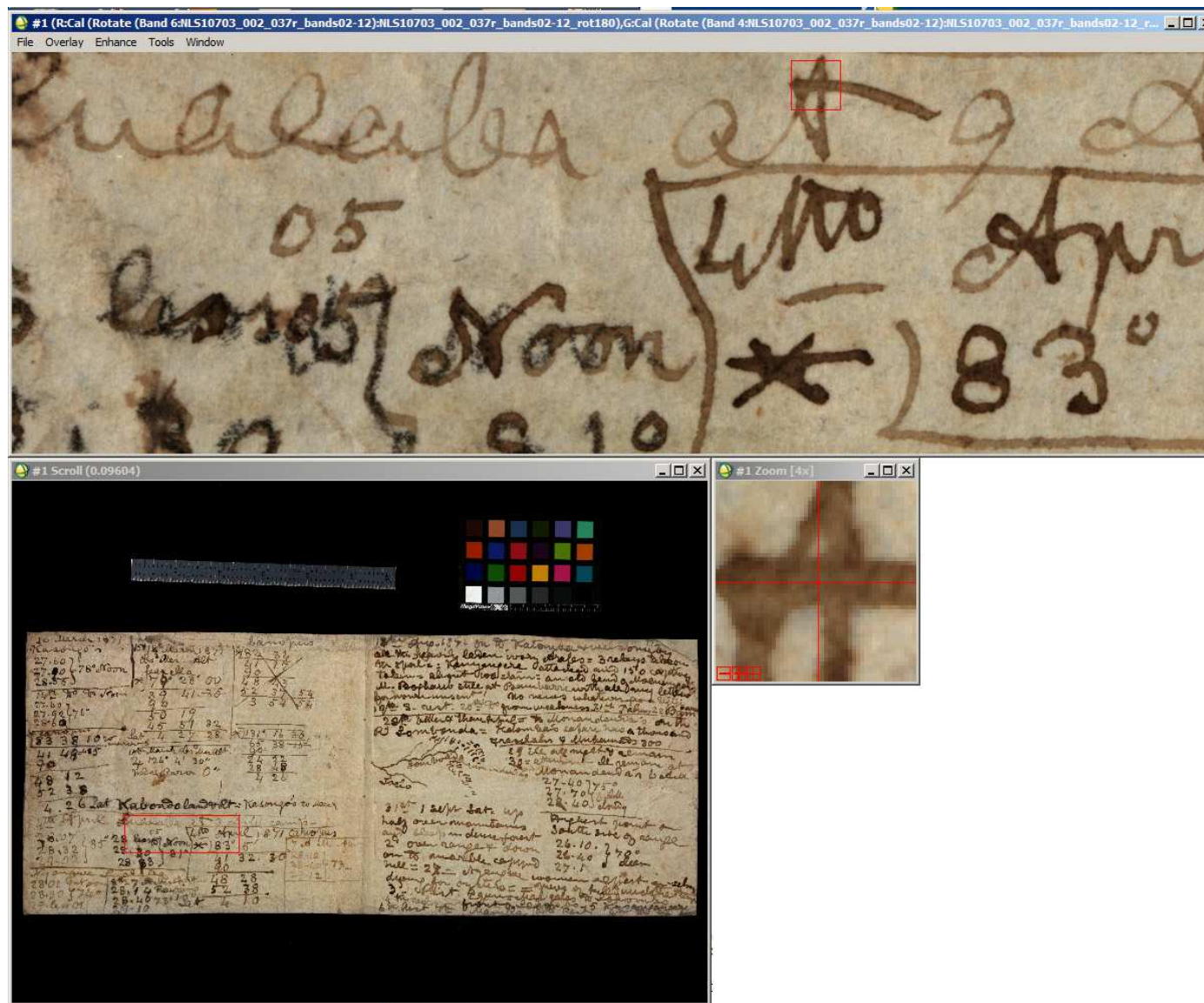
NLS10703_002_037r_SpectrumA



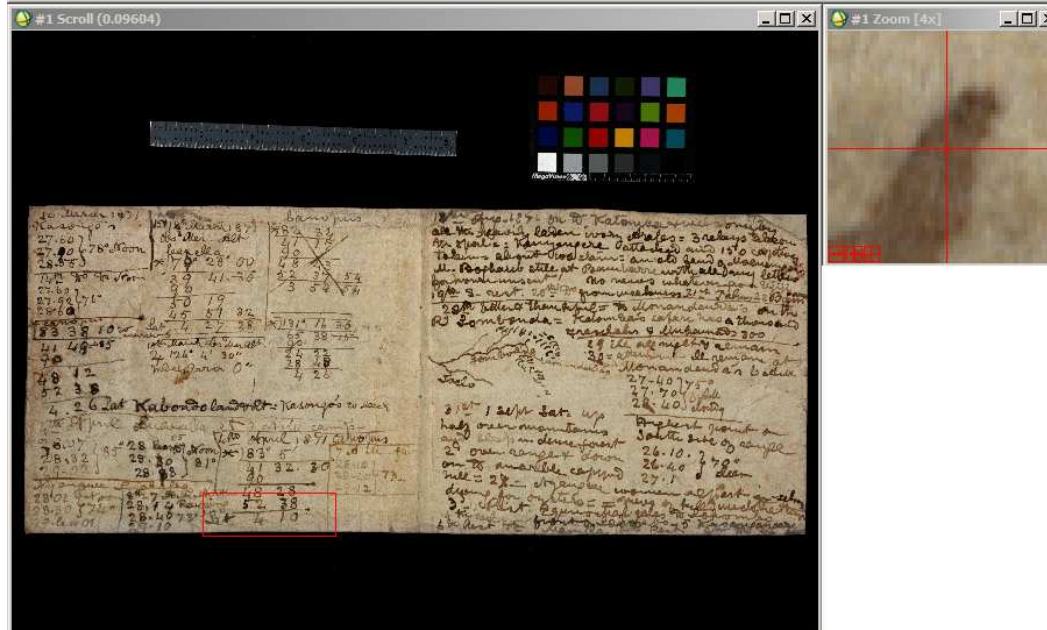
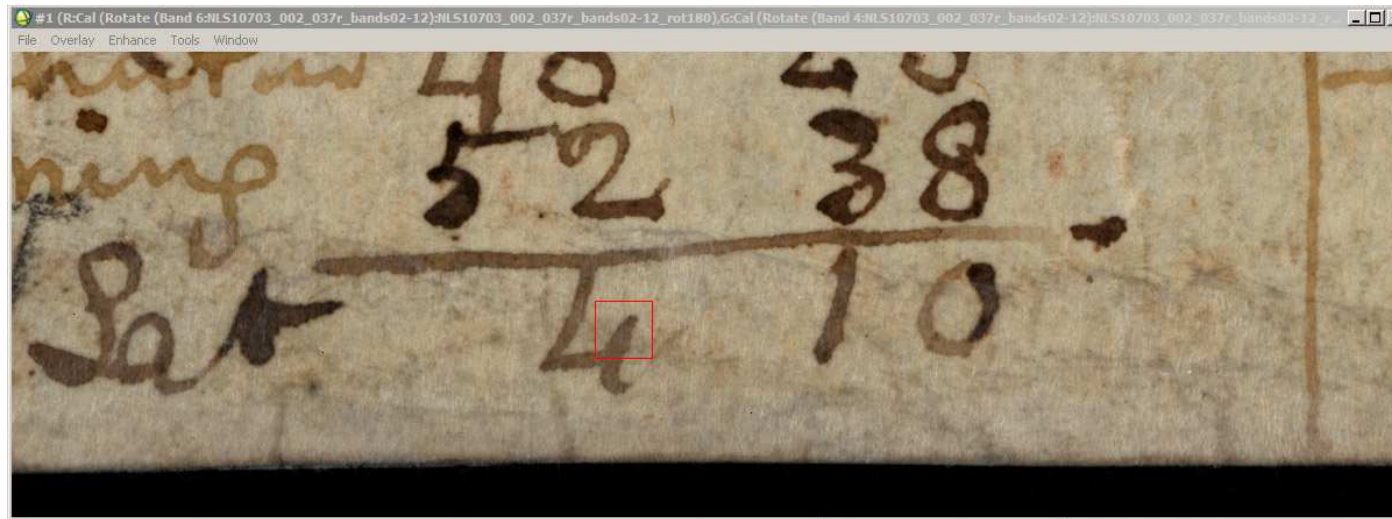
NLS10703_002_037r_SpectrumB



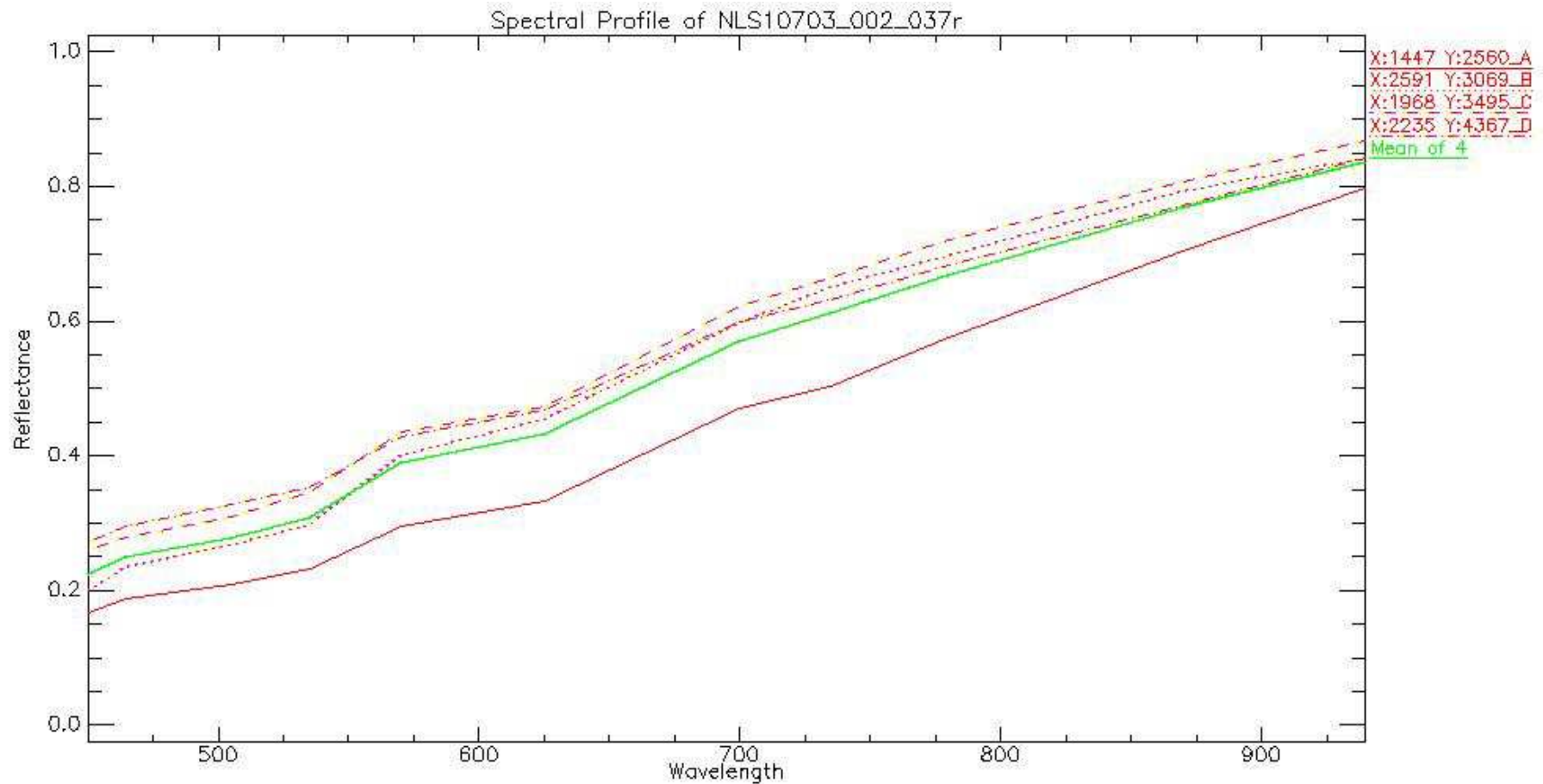
NLS10703_002_037r_SpectrumC



NLS10703_002_037r_SpectrumD



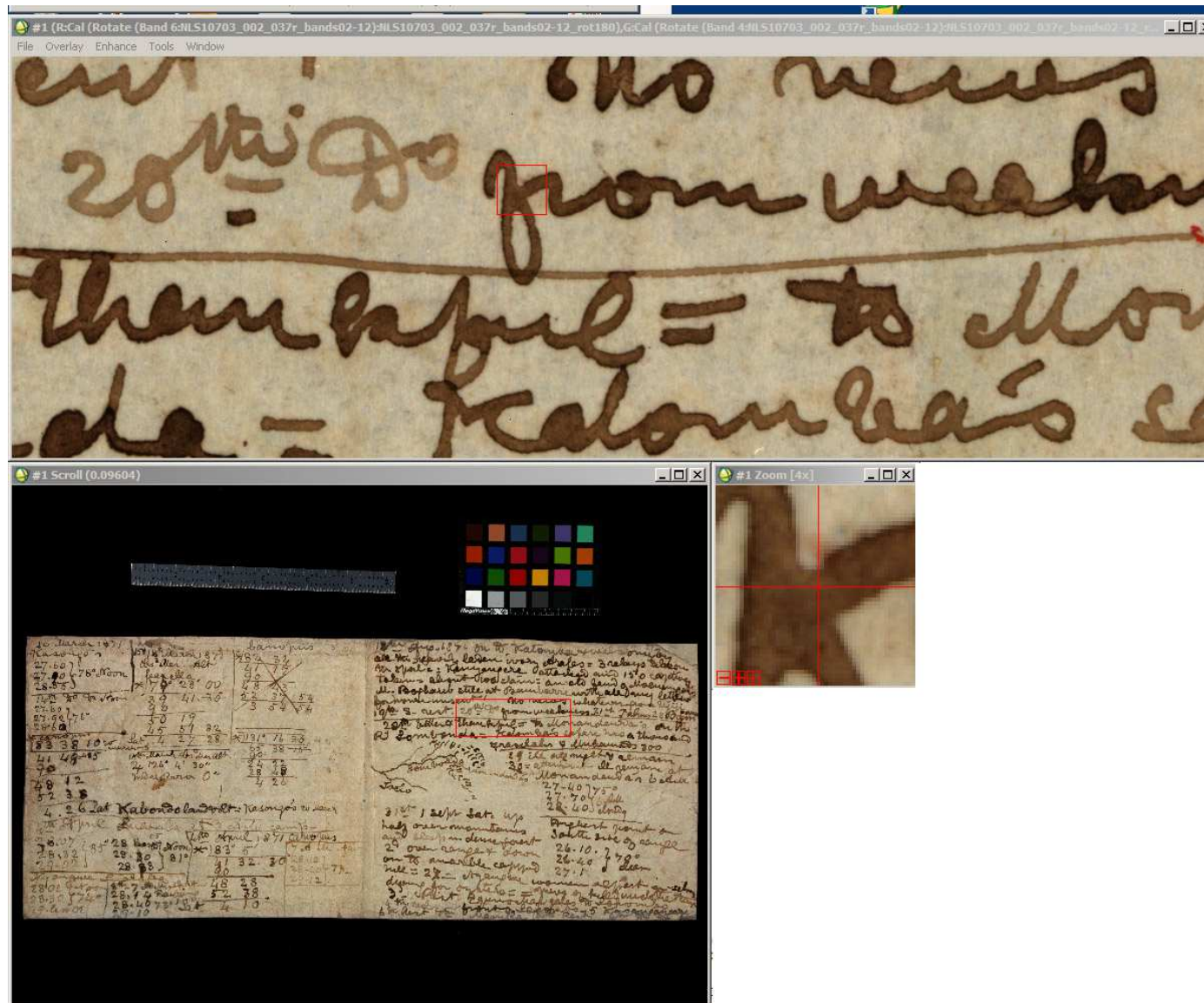
Spectra and Mean of Inks on Left-Hand Side of NLS10703_002_037r



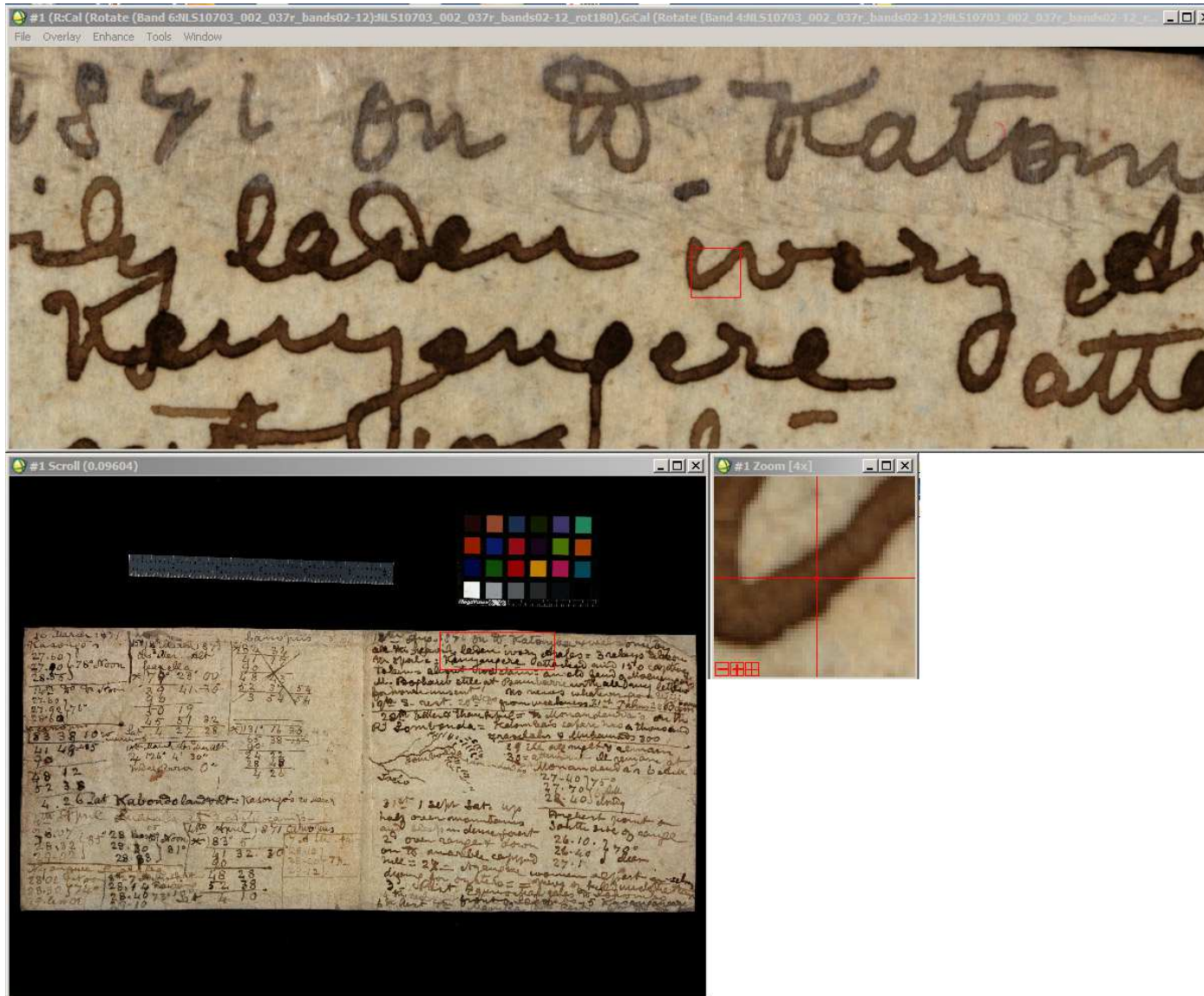
NLS10703_001_037r

Spectra of Inks on Right-Hand Side

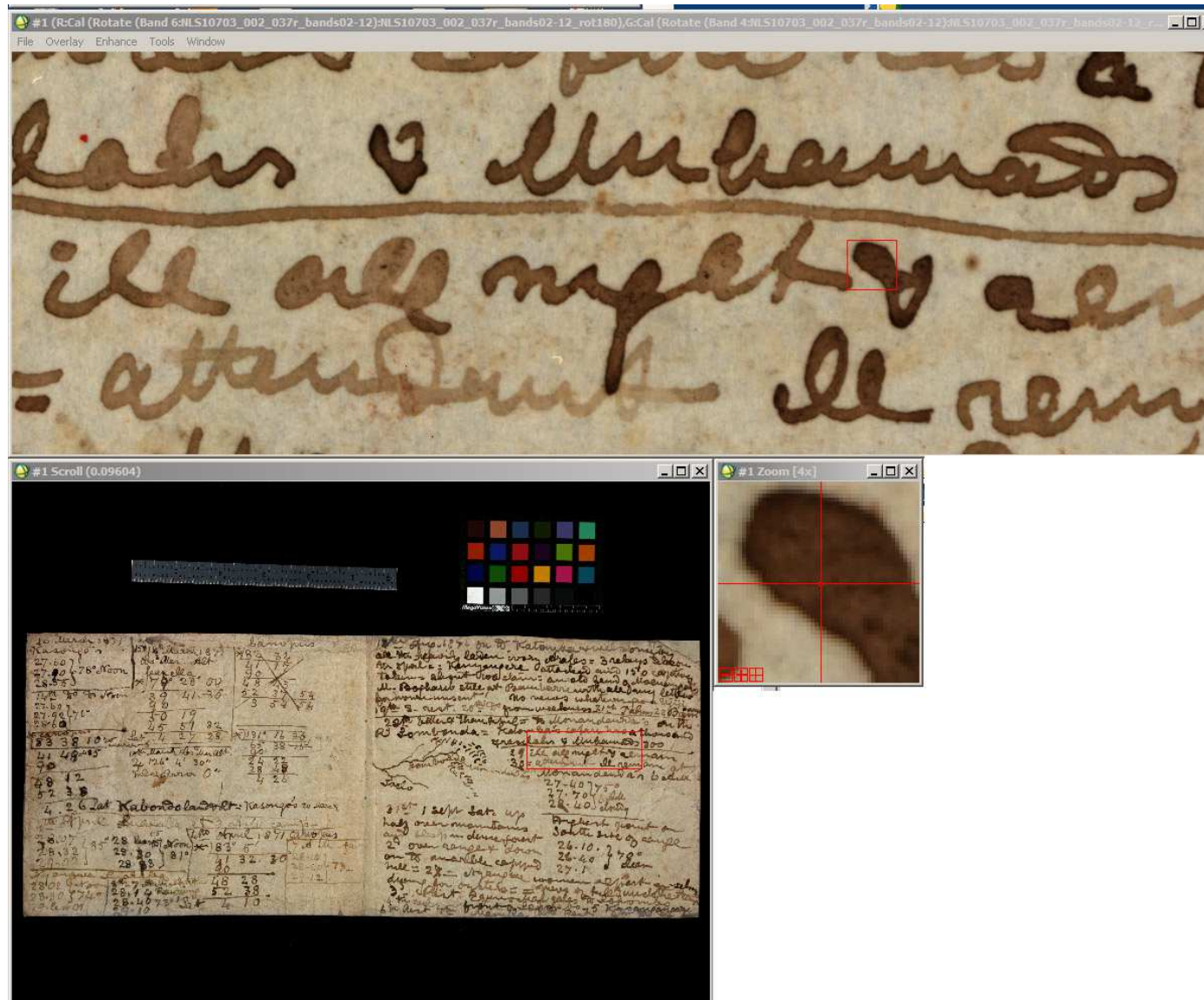
NLS10703_002_037r_SpectrumE



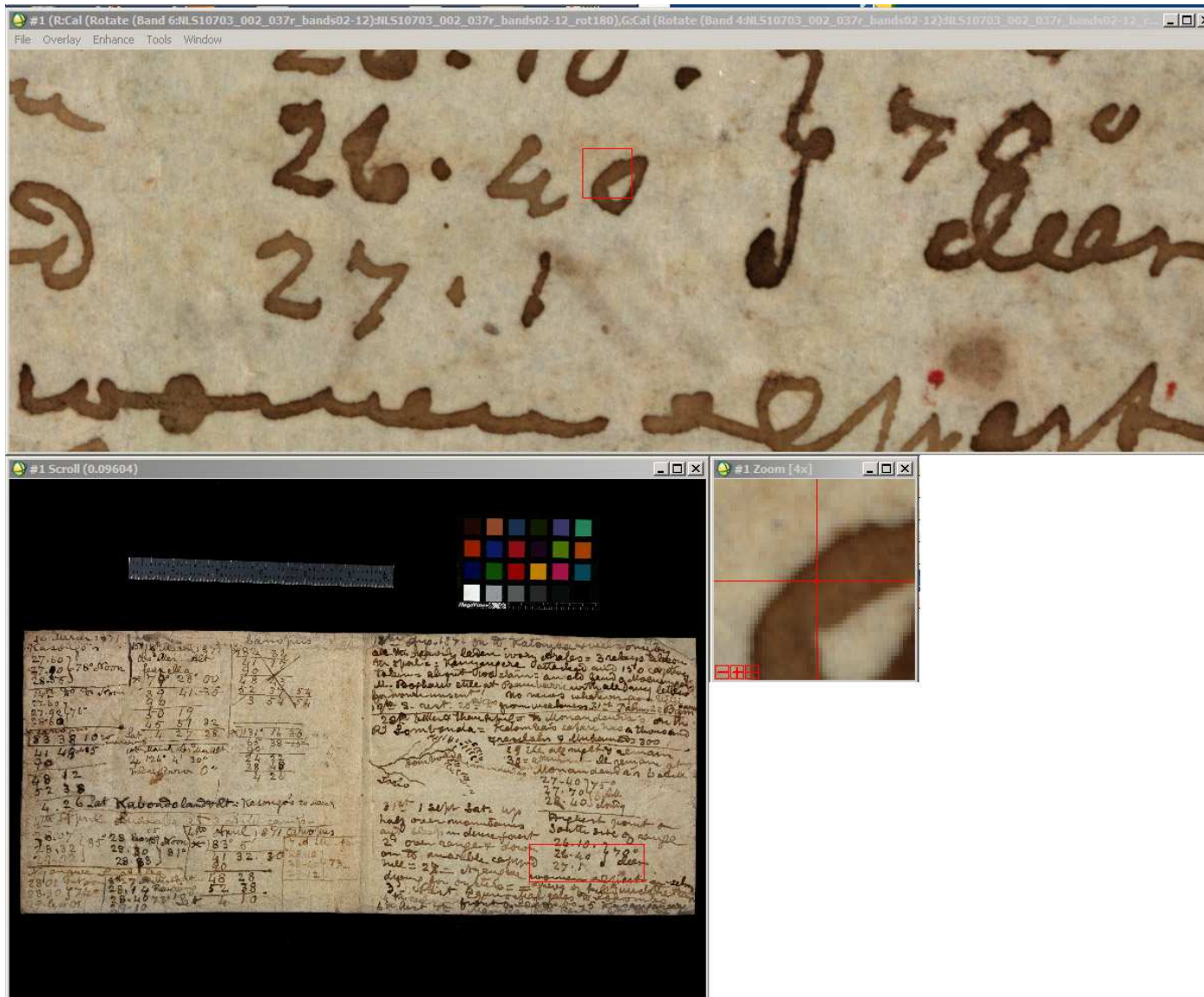
NLS10703_002_037r_SpectrumF



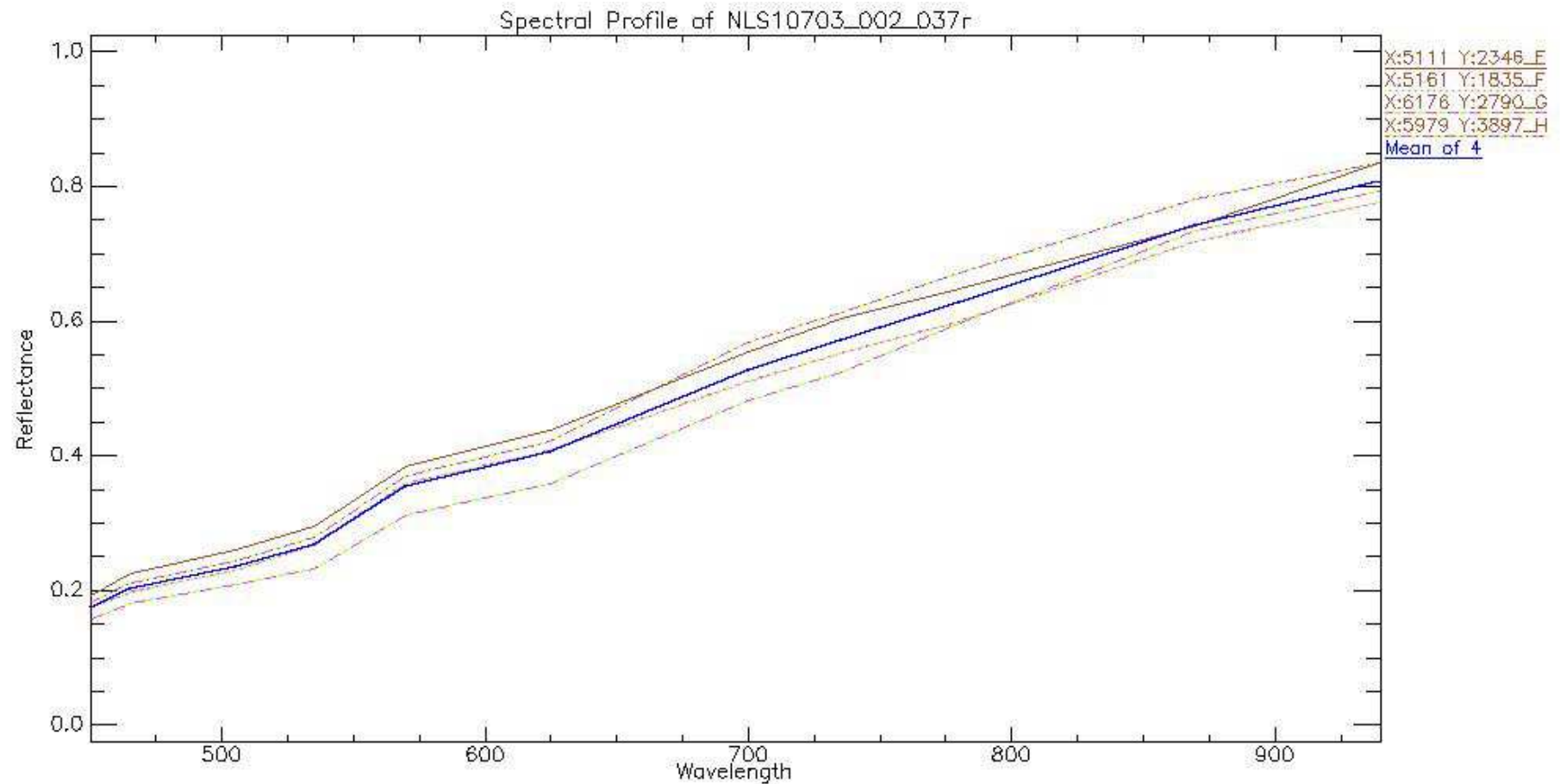
NLS10703_002_037r_SpectrumG



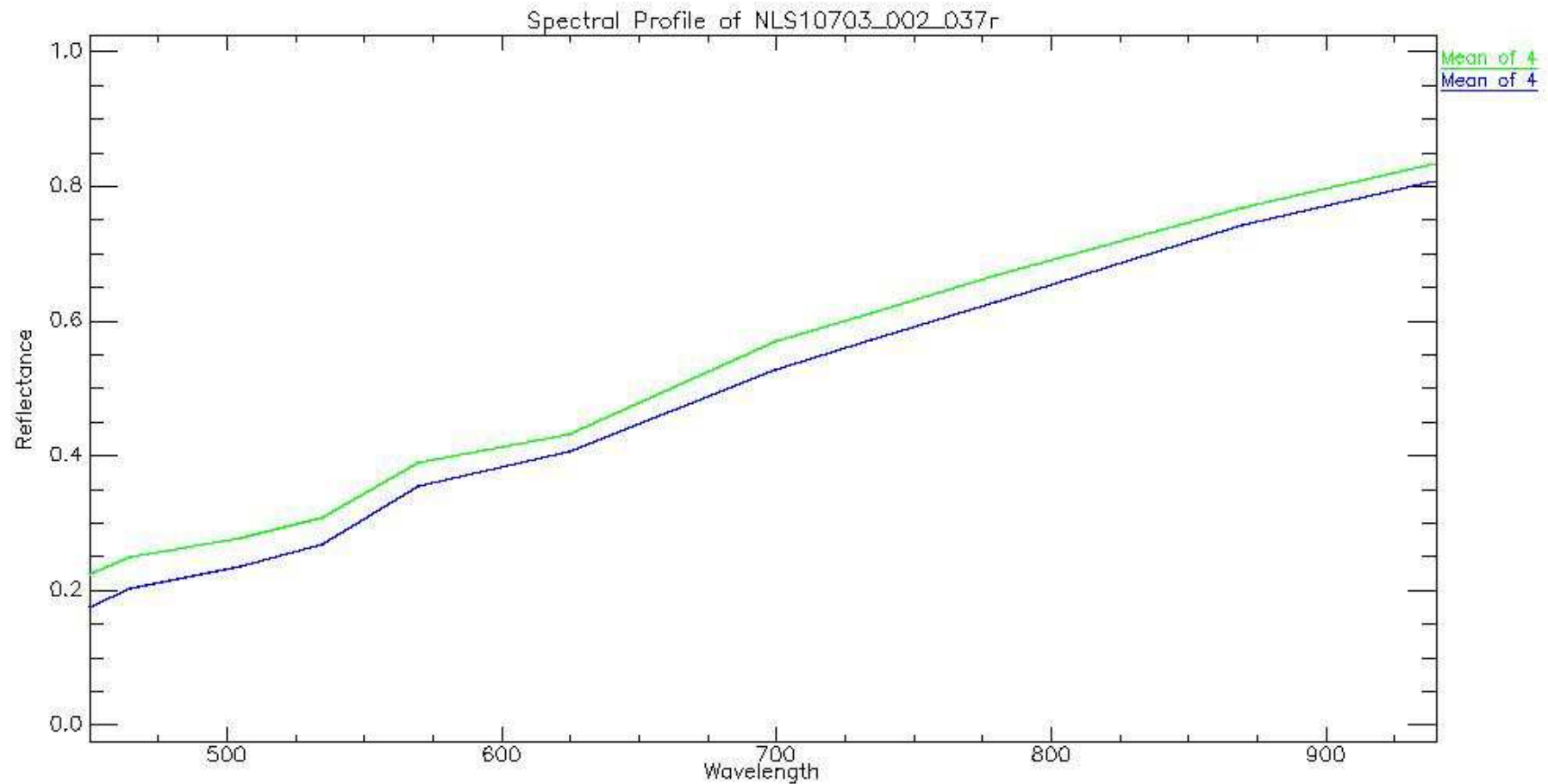
NLS10703_002_037r_SpectrumH



Spectra and Mean of Inks on Right-Hand Side of NLS10703_002_037r



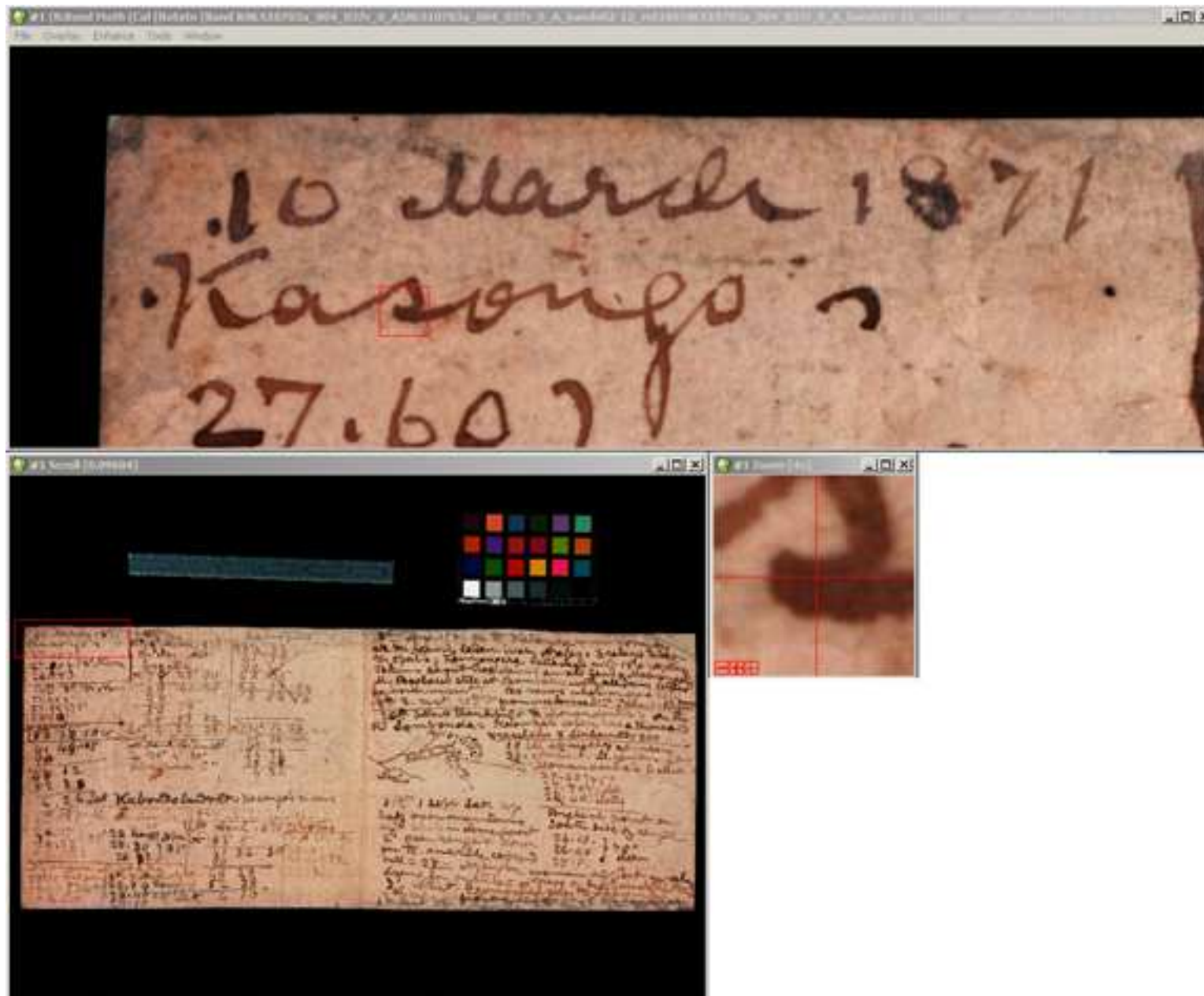
Spectra and Mean of Inks on Left (Green) and Right (Blue) Side of NLS10703_002_037r



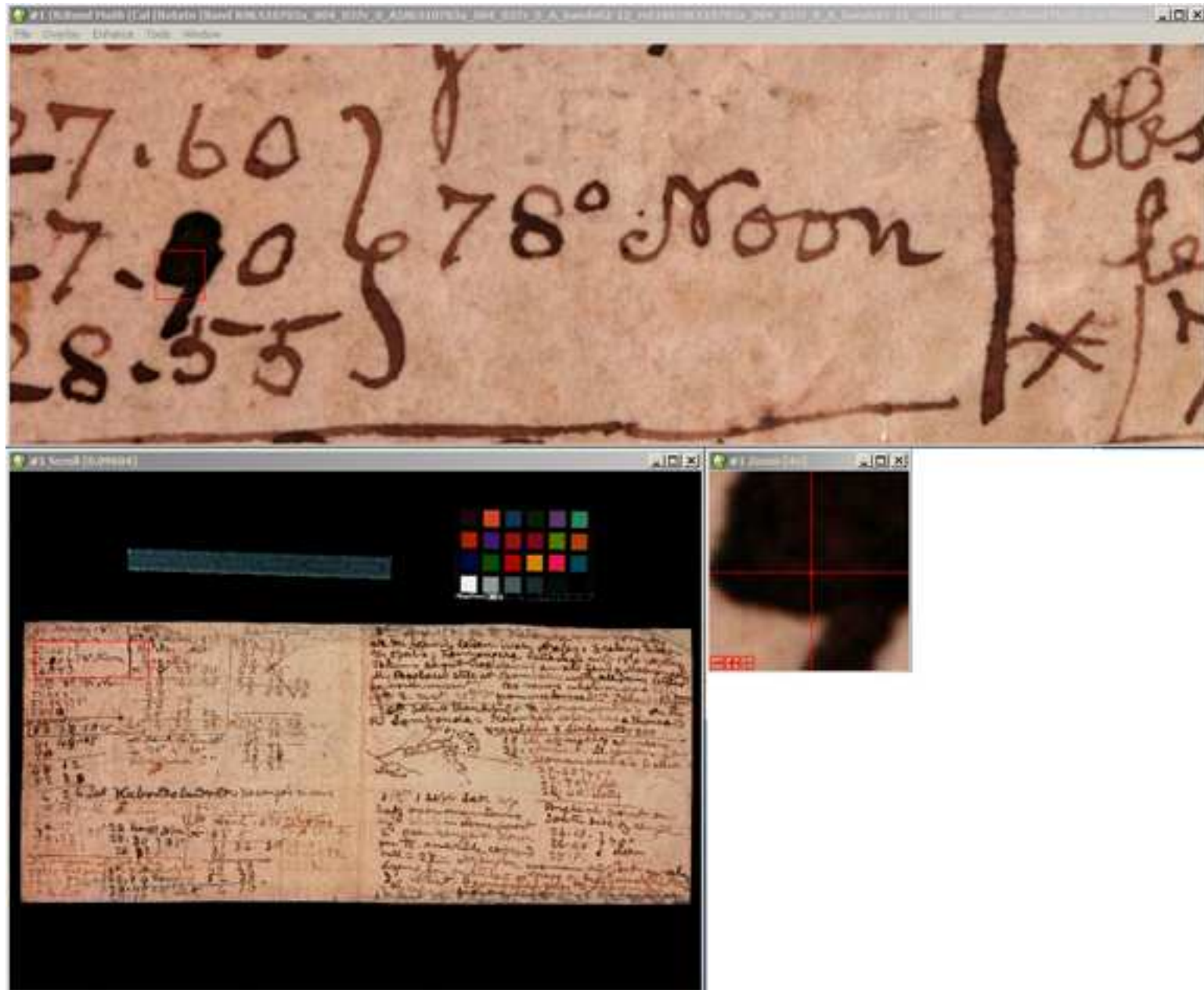
NLS10703_002_037r

Spectra of Various Inks

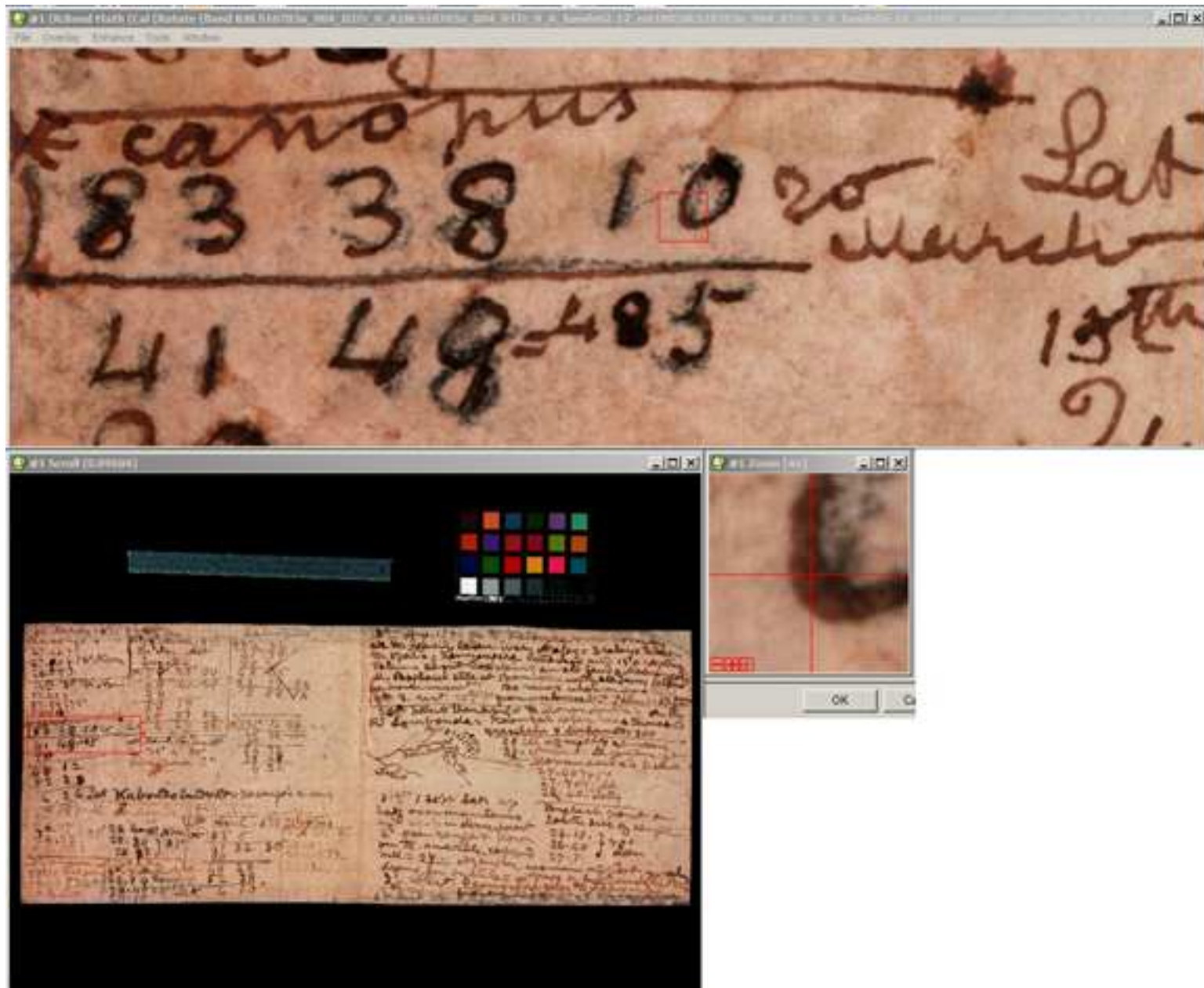
NLS10703_002_037r_SampleA



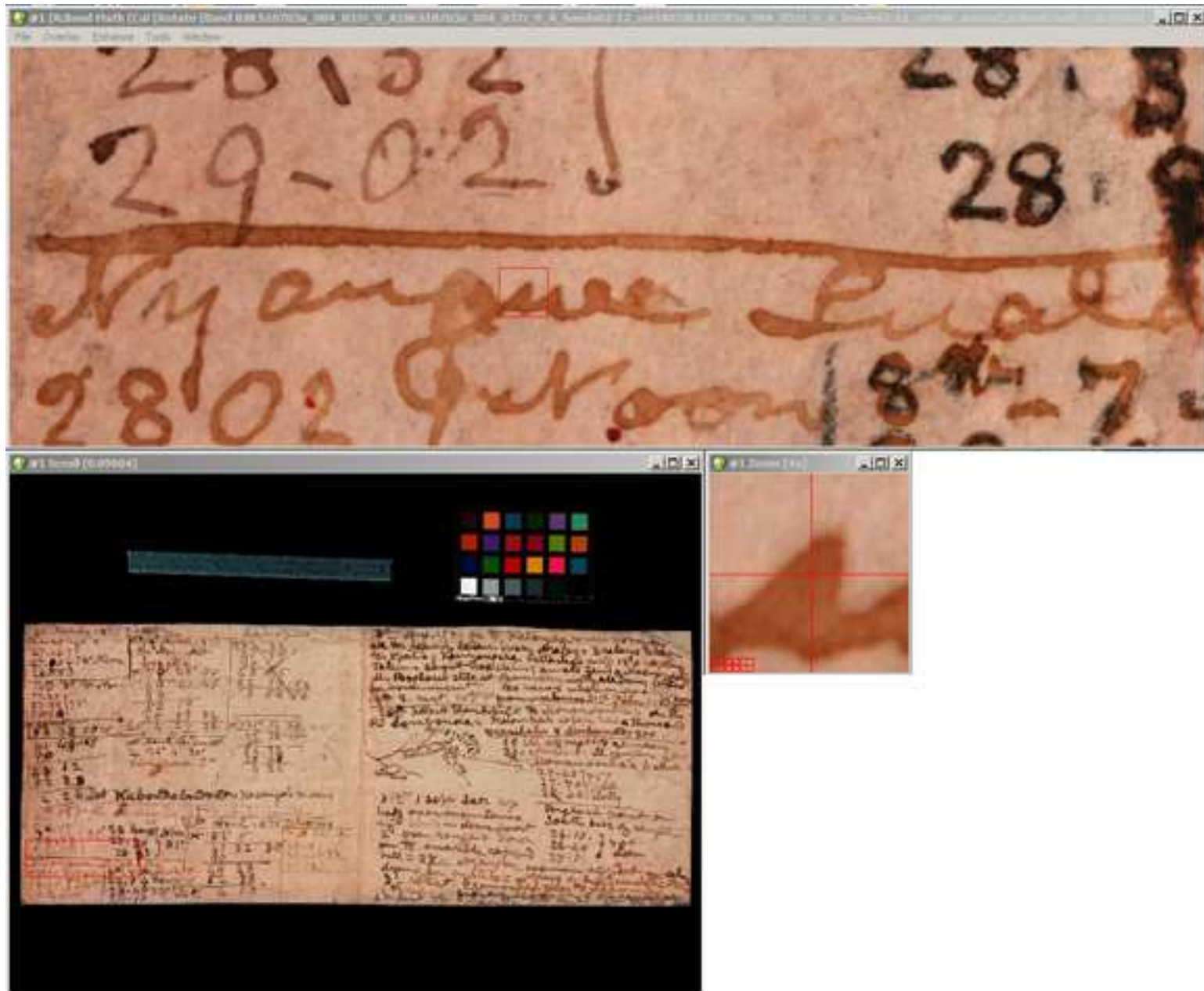
NLS10703_002_037r_SampleB



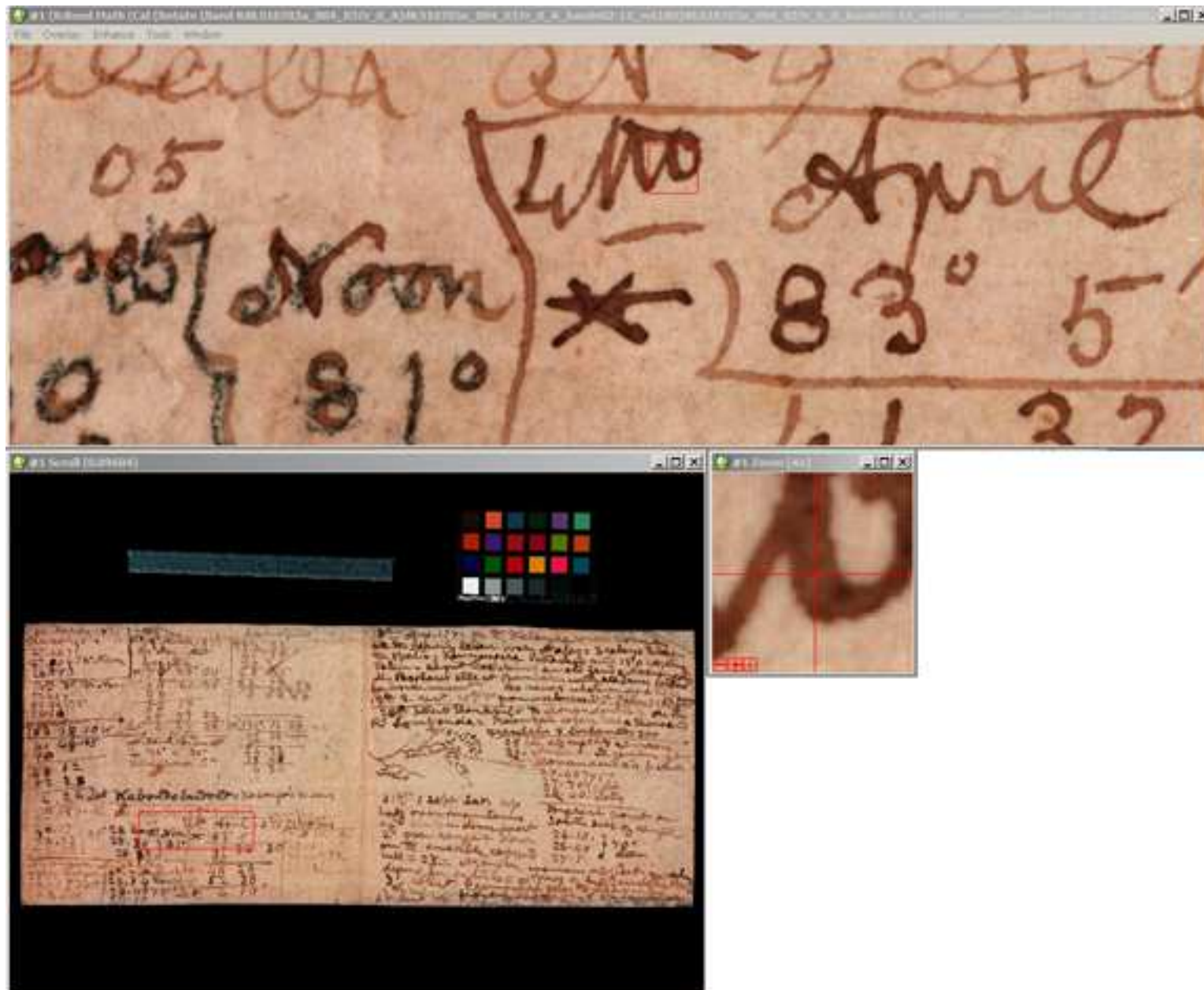
NLS10703_002_037r_SampleC



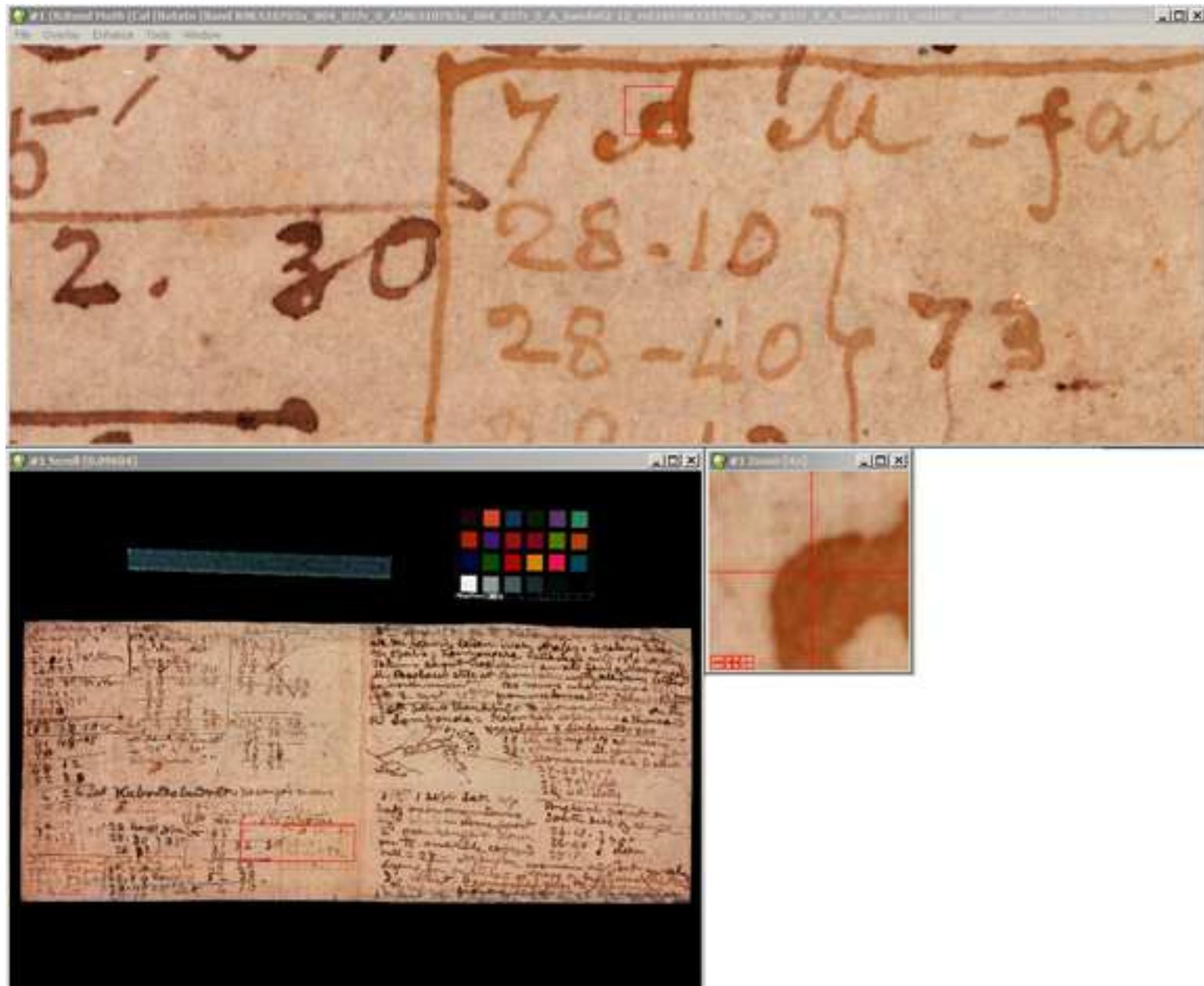
NLS10703_002_037r_SampleD



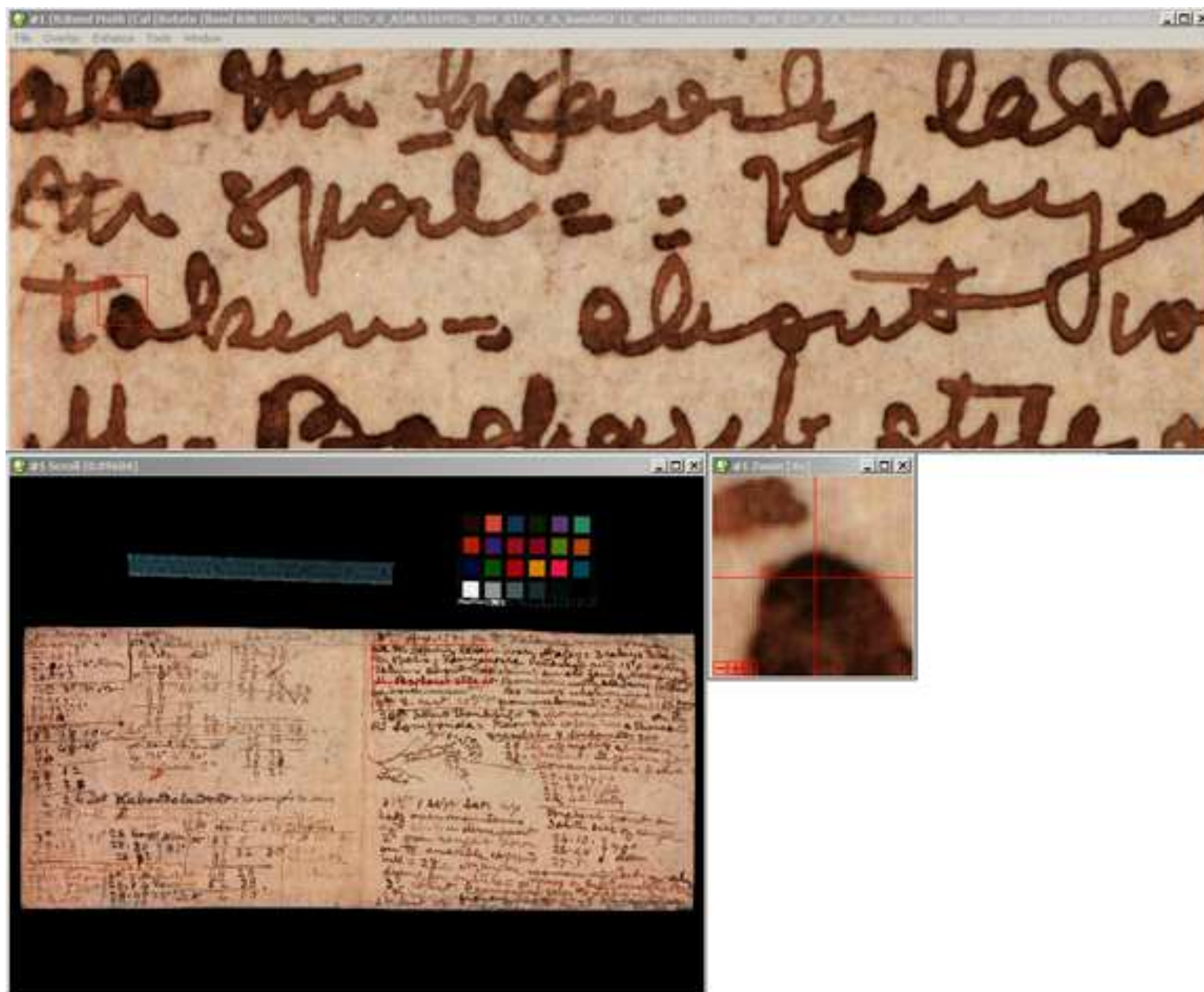
NLS10703_002_037r_SampleE



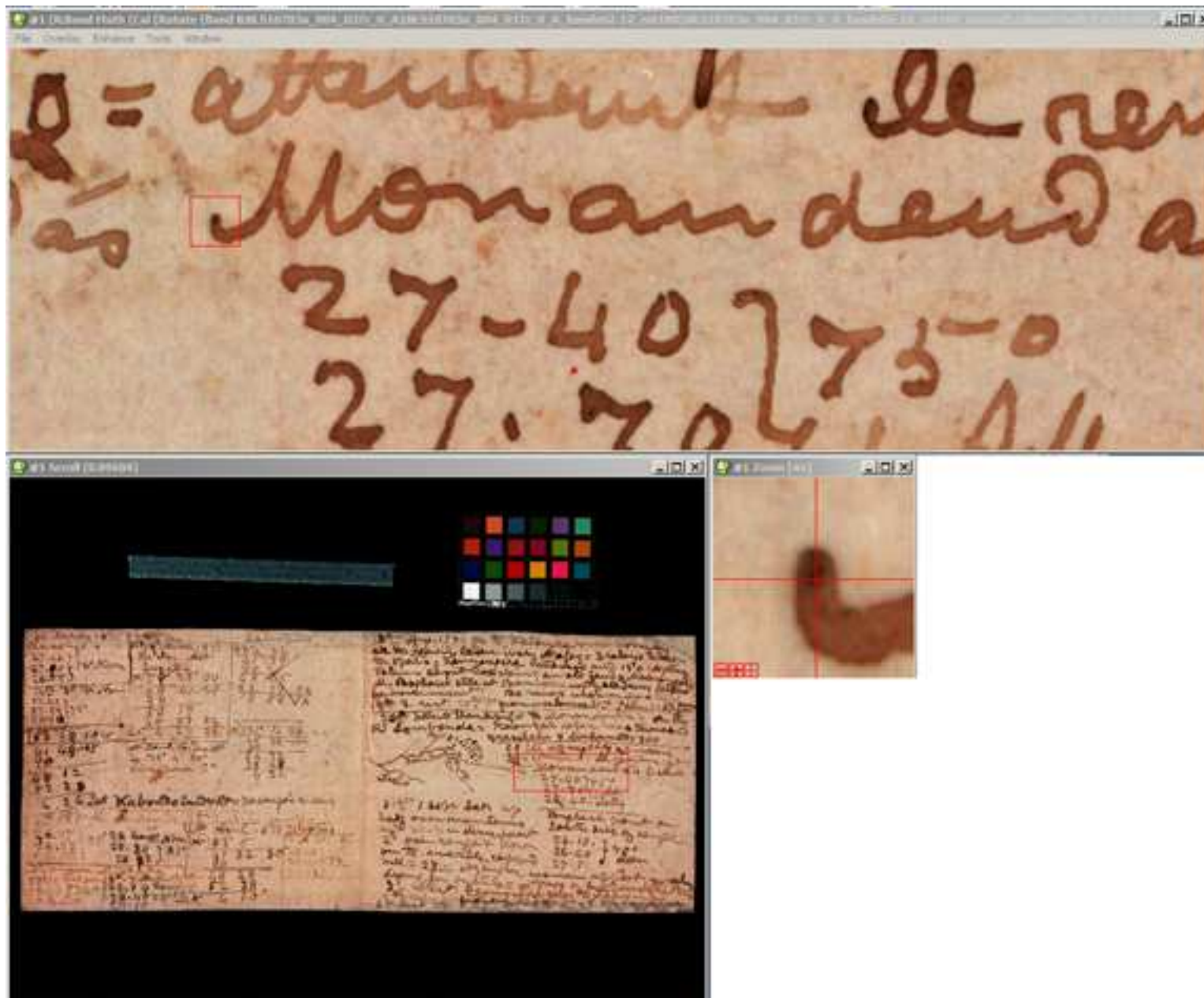
NLS10703_002_037r_SampleF



NLS10703_002_037r_SampleG

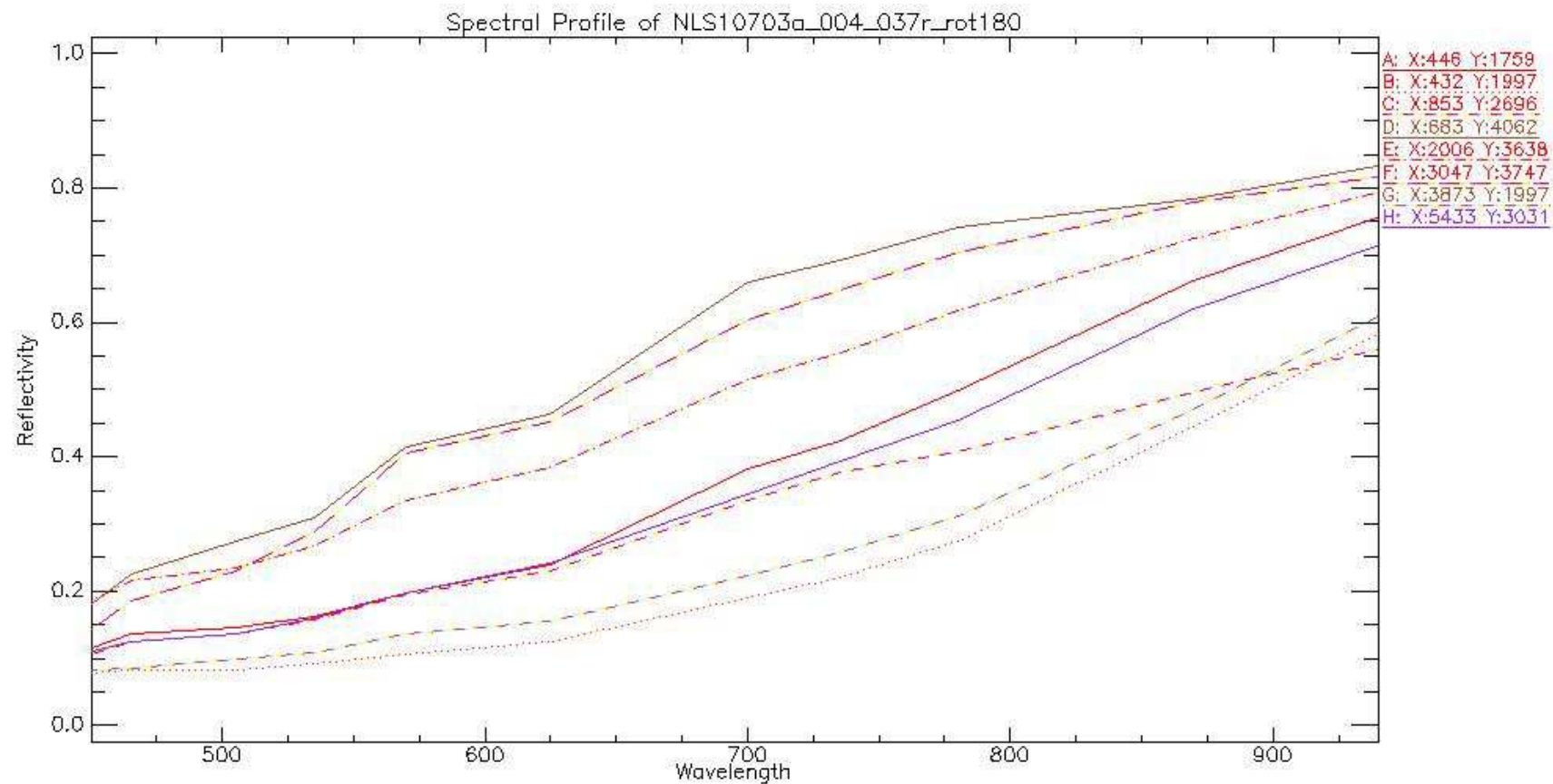


NLS10703_002_037r_SampleH



NLS10703_002_037r_0_A

Samples A,B,C,D,E,F,G,H of Various Inks



NLS10703_002_038v

Ink Spectra of John Kirk Signature

Kanagawa near Tsurubaru - murdering about the
 same time. Have been obliged to use most discretion
 continue in order not to give those who have never
 seen it the appearance of mendacity in drawings
 from their club. It was exaggerated over drawing
 like Mrs Stowes uncle Golds cabin. The like would
 be philosophers doubt if there was a hell but have
 been in it twice. Once on the shore where we
 had to clear the paddle wheels at cheap cables of the
 dead every man up before we could start. The
 out the horrible scenes of orphans & carriages are
 unbearable to be even balanced at any imagination
 again. on the Kilwa slave route to at gasse -
 then the hell scenes I do not want to repeat
 or even think on. I drive them from my
 thoughts if ever they intrude as intrude in
 part 2 they will do on Sunday walking at
 dead 2 of night - getting up & walking about
 sometimes I believe the best writing about
 during my countrying oppressed like as hinted
 at in the book. I think nothing else on
 either side. I could not think on
 the same things as I could not think on
 POLITICAL AGENCY, ZANZIBAR
 and family interest. Lord Palmerston's
 1847-1848

179 23 15 - March 1871
 39 50 178 50
 50 20 37 25
 45 51 32 50 35
 4 28 28 48 57
 4 44

1131 16 30
 65 38 02 2000
 4 22 22
 28 48
 4 28
 15 26 57 17
 115 36 28
 10 32 40
 4 18

182 31 30 114 50 30
 11 17 30 37 28 44
 48 43 48 32 35
 52 37 54 28 25
 3 55 09 4

1847-1848
 1849-1850
 1851-1852
 1853-1854
 1855-1856
 1857-1858
 1859-1860
 1861-1862
 1863-1864
 1865-1866
 1867-1868
 1869-1870
 1871-1872
 1873-1874
 1875-1876
 1877-1878
 1879-1880
 1881-1882
 1883-1884
 1885-1886
 1887-1888
 1889-1890
 1891-1892
 1893-1894
 1895-1896
 1897-1898
 1899-1900

1847-1848
 1849-1850
 1851-1852
 1853-1854
 1855-1856
 1857-1858
 1859-1860
 1861-1862
 1863-1864
 1865-1866
 1867-1868
 1869-1870
 1871-1872
 1873-1874
 1875-1876
 1877-1878
 1879-1880
 1881-1882
 1883-1884
 1885-1886
 1887-1888
 1889-1890
 1891-1892
 1893-1894
 1895-1896
 1897-1898
 1899-1900

1847-1848
 1849-1850
 1851-1852
 1853-1854
 1855-1856
 1857-1858
 1859-1860
 1861-1862
 1863-1864
 1865-1866
 1867-1868
 1869-1870
 1871-1872
 1873-1874
 1875-1876
 1877-1878
 1879-1880
 1881-1882
 1883-1884
 1885-1886
 1887-1888
 1889-1890
 1891-1892
 1893-1894
 1895-1896
 1897-1898
 1899-1900

1847-1848
 1849-1850
 1851-1852
 1853-1854
 1855-1856
 1857-1858
 1859-1860
 1861-1862
 1863-1864
 1865-1866
 1867-1868
 1869-1870
 1871-1872
 1873-1874
 1875-1876
 1877-1878
 1879-1880
 1881-1882
 1883-1884
 1885-1886
 1887-1888
 1889-1890
 1891-1892
 1893-1894
 1895-1896
 1897-1898
 1899-1900

1847-1848
 1849-1850
 1851-1852
 1853-1854
 1855-1856
 1857-1858
 1859-1860
 1861-1862
 1863-1864
 1865-1866
 1867-1868
 1869-1870
 1871-1872
 1873-1874
 1875-1876
 1877-1878
 1879-1880
 1881-1882
 1883-1884
 1885-1886
 1887-1888
 1889-1890
 1891-1892
 1893-1894
 1895-1896
 1897-1898
 1899-1900

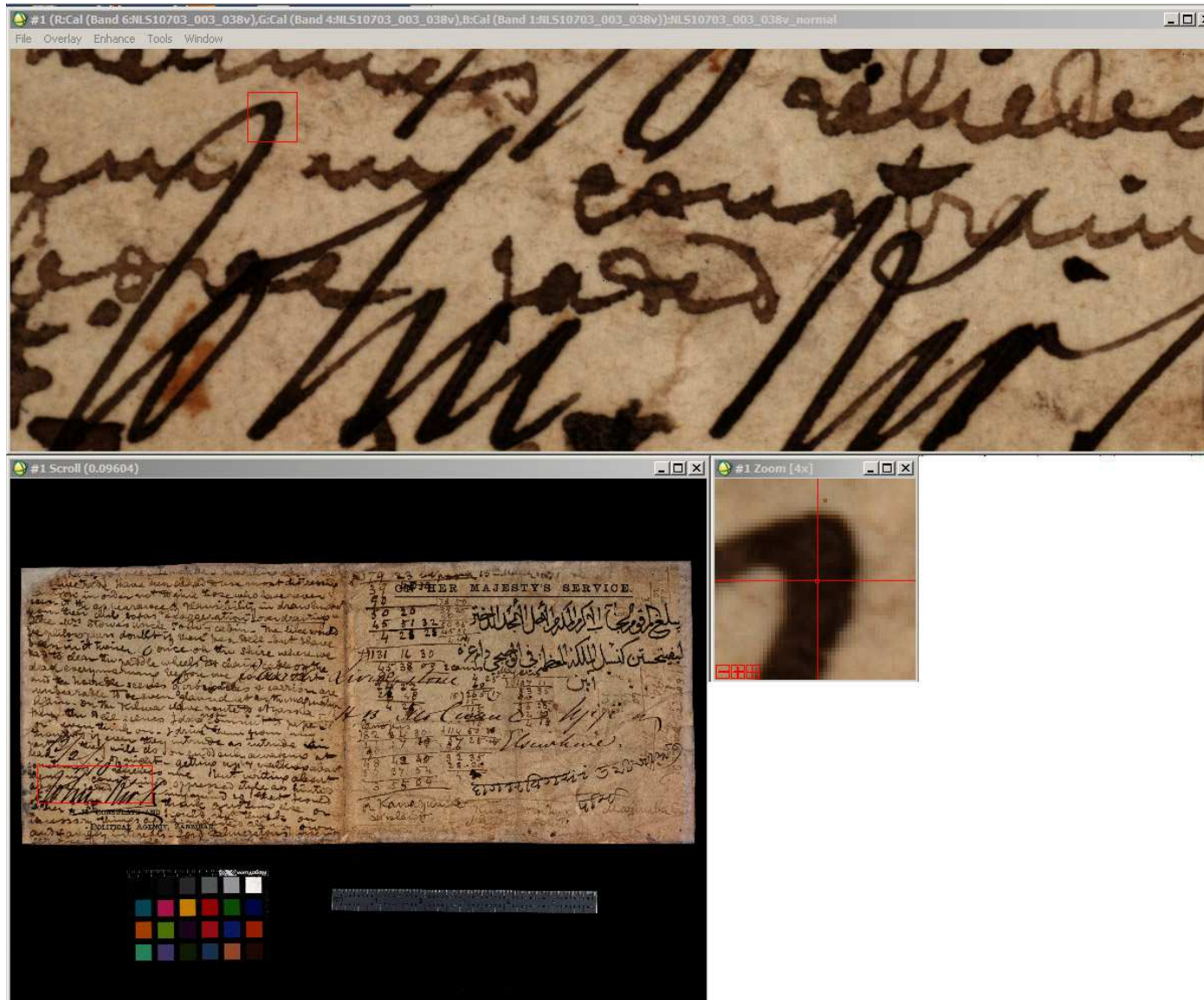
1847-1848
 1849-1850
 1851-1852
 1853-1854
 1855-1856
 1857-1858
 1859-1860
 1861-1862
 1863-1864
 1865-1866
 1867-1868
 1869-1870
 1871-1872
 1873-1874
 1875-1876
 1877-1878
 1879-1880
 1881-1882
 1883-1884
 1885-1886
 1887-1888
 1889-1890
 1891-1892
 1893-1894
 1895-1896
 1897-1898
 1899-1900

1847-1848
 1849-1850
 1851-1852
 1853-1854
 1855-1856
 1857-1858
 1859-1860
 1861-1862
 1863-1864
 1865-1866
 1867-1868
 1869-1870
 1871-1872
 1873-1874
 1875-1876
 1877-1878
 1879-1880
 1881-1882
 1883-1884
 1885-1886
 1887-1888
 1889-1890
 1891-1892
 1893-1894
 1895-1896
 1897-1898
 1899-1900

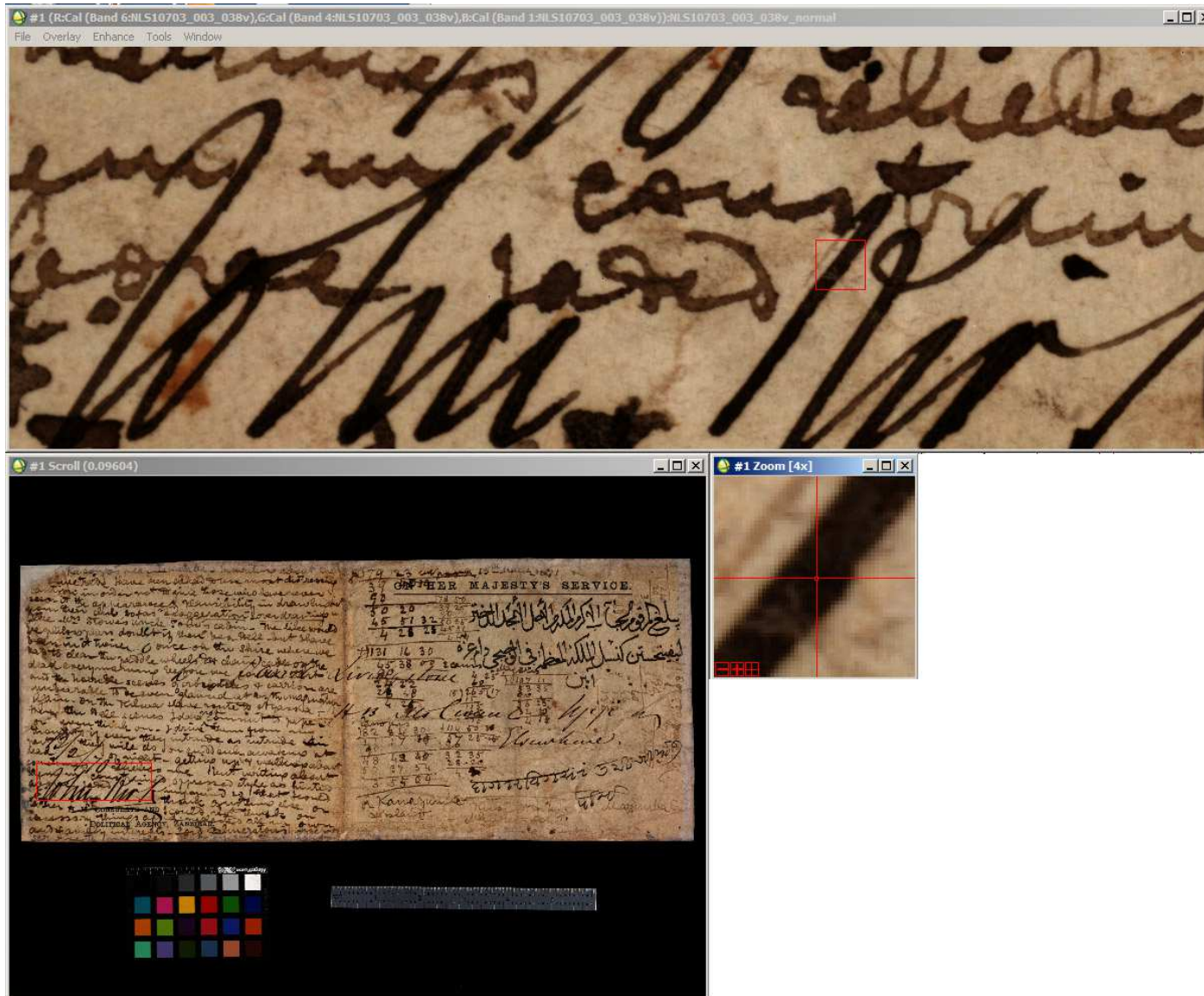
1847-1848
 1849-1850
 1851-1852
 1853-1854
 1855-1856
 1857-1858
 1859-1860
 1861-1862
 1863-1864
 1865-1866
 1867-1868
 1869-1870
 1871-1872
 1873-1874
 1875-1876
 1877-1878
 1879-1880
 1881-1882
 1883-1884
 1885-1886
 1887-1888
 1889-1890
 1891-1892
 1893-1894
 1895-1896
 1897-1898
 1899-1900

1847-1848
 1849-1850
 1851-1852
 1853-1854
 1855-1856
 1857-1858
 1859-1860
 1861-1862
 1863-1864
 1865-1866
 1867-1868
 1869-1870
 1871-1872
 1873-1874
 1875-1876
 1877-1878
 1879-1880
 1881-1882
 1883-1884
 1885-1886
 1887-1888

NLS10703_002_038v_SpectrumA



NLS10703_002_038v_SpectrumB



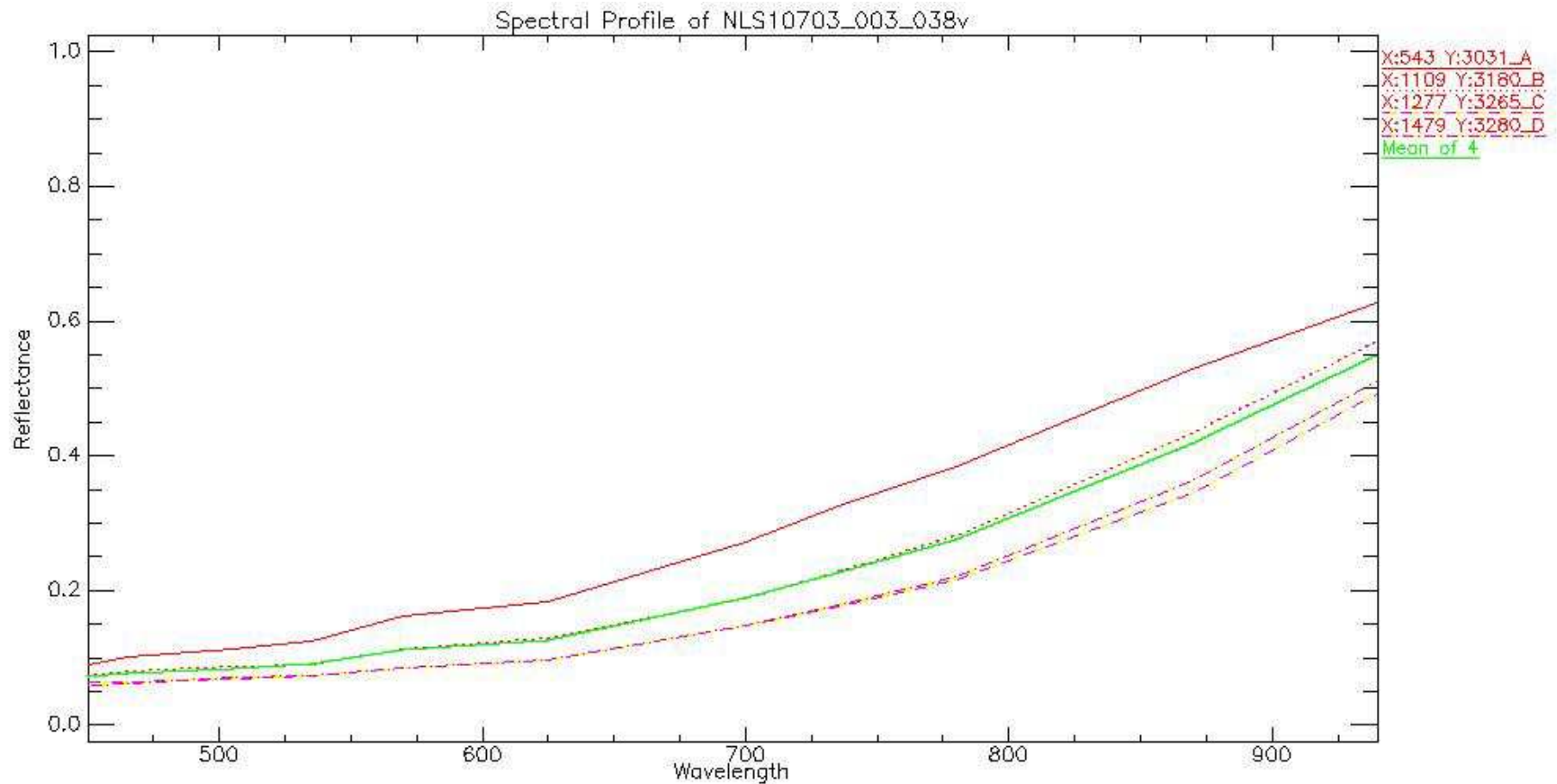
NLS10703_002_038v_SpectrumC



NLS10703_002_038v_SpectrumD



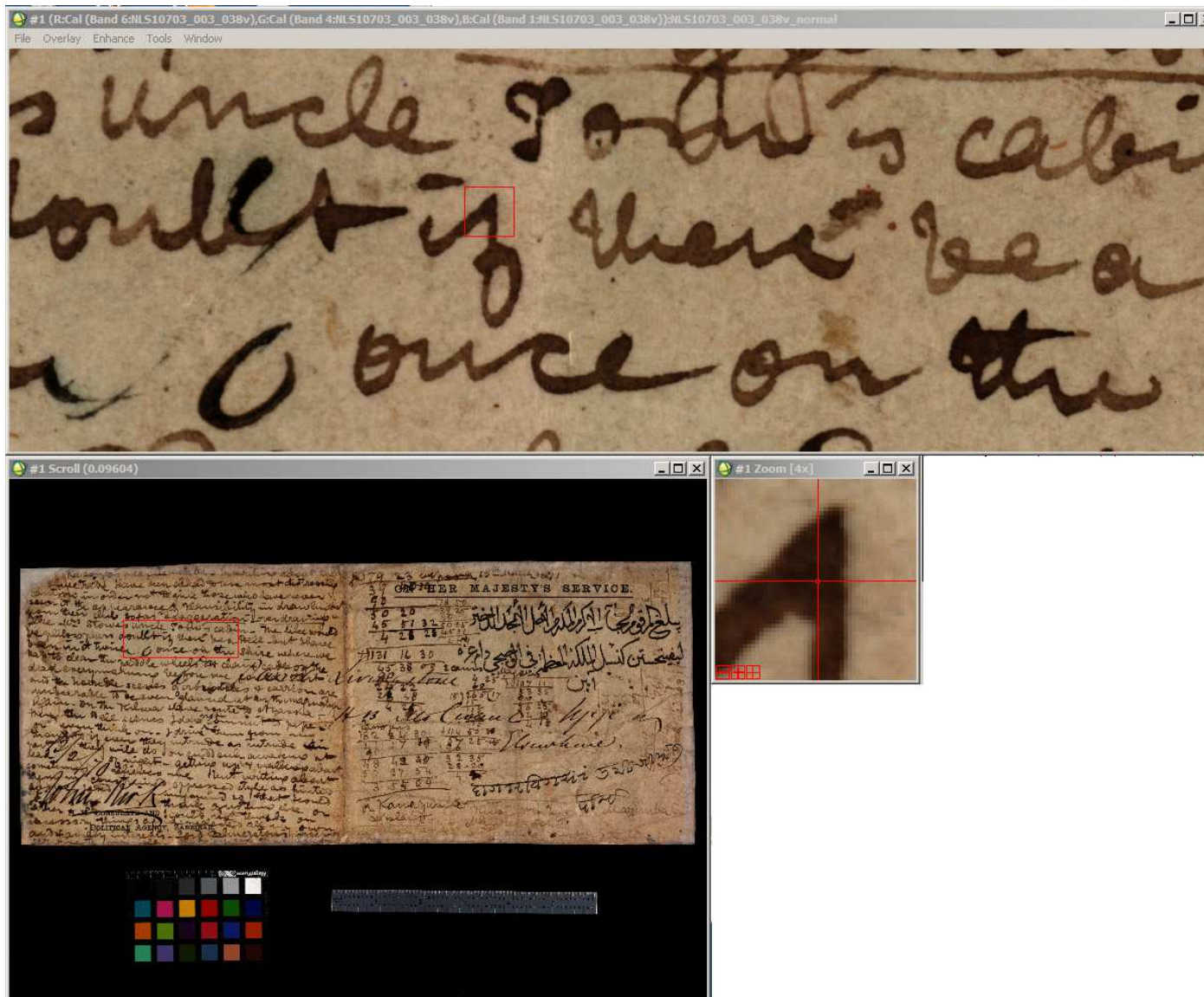
Spectra and Mean of John Kirk Signature on NLS10703_002_038v



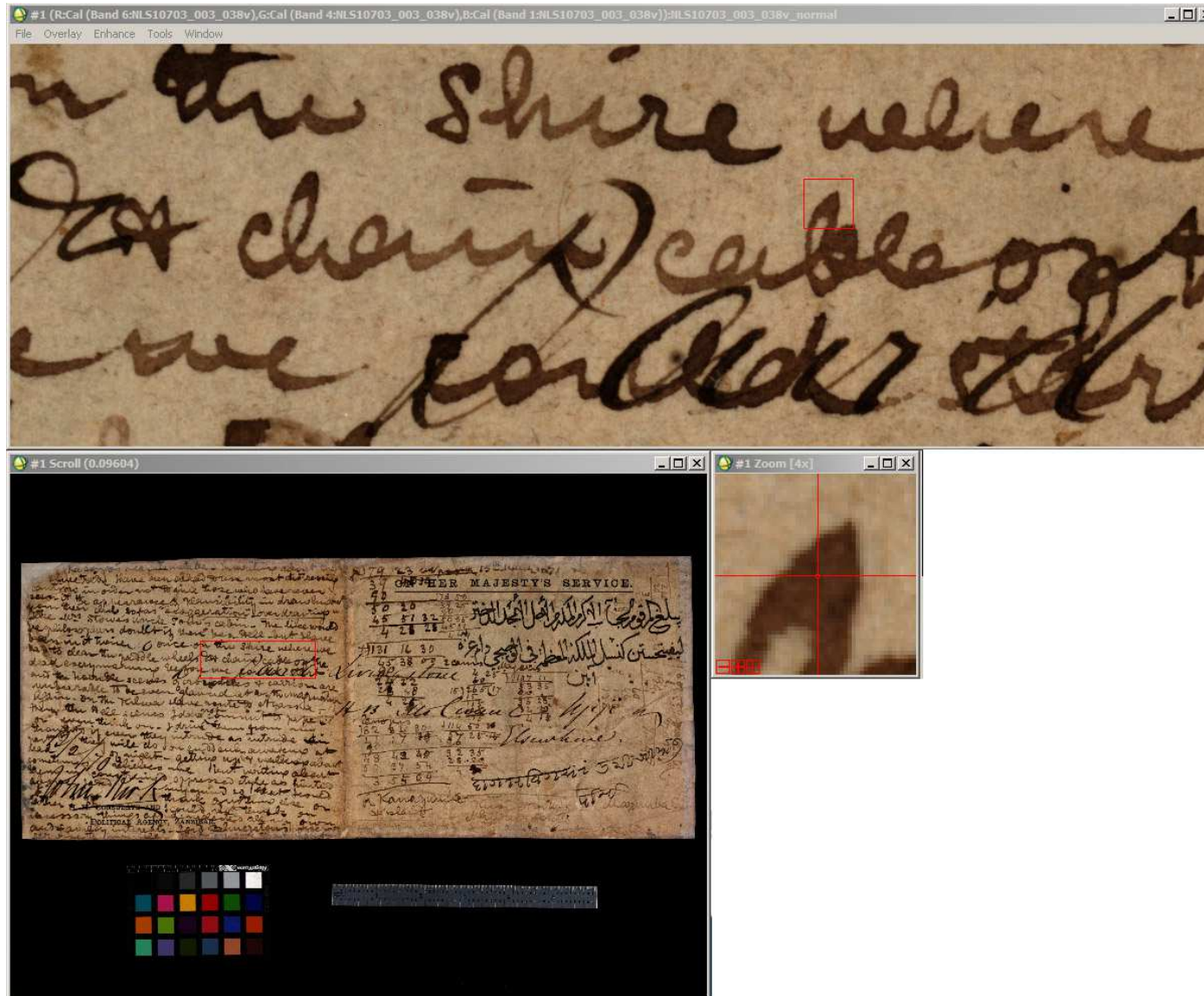
NLS10703_002_038v

Spectra of Inks on Left-Hand Side

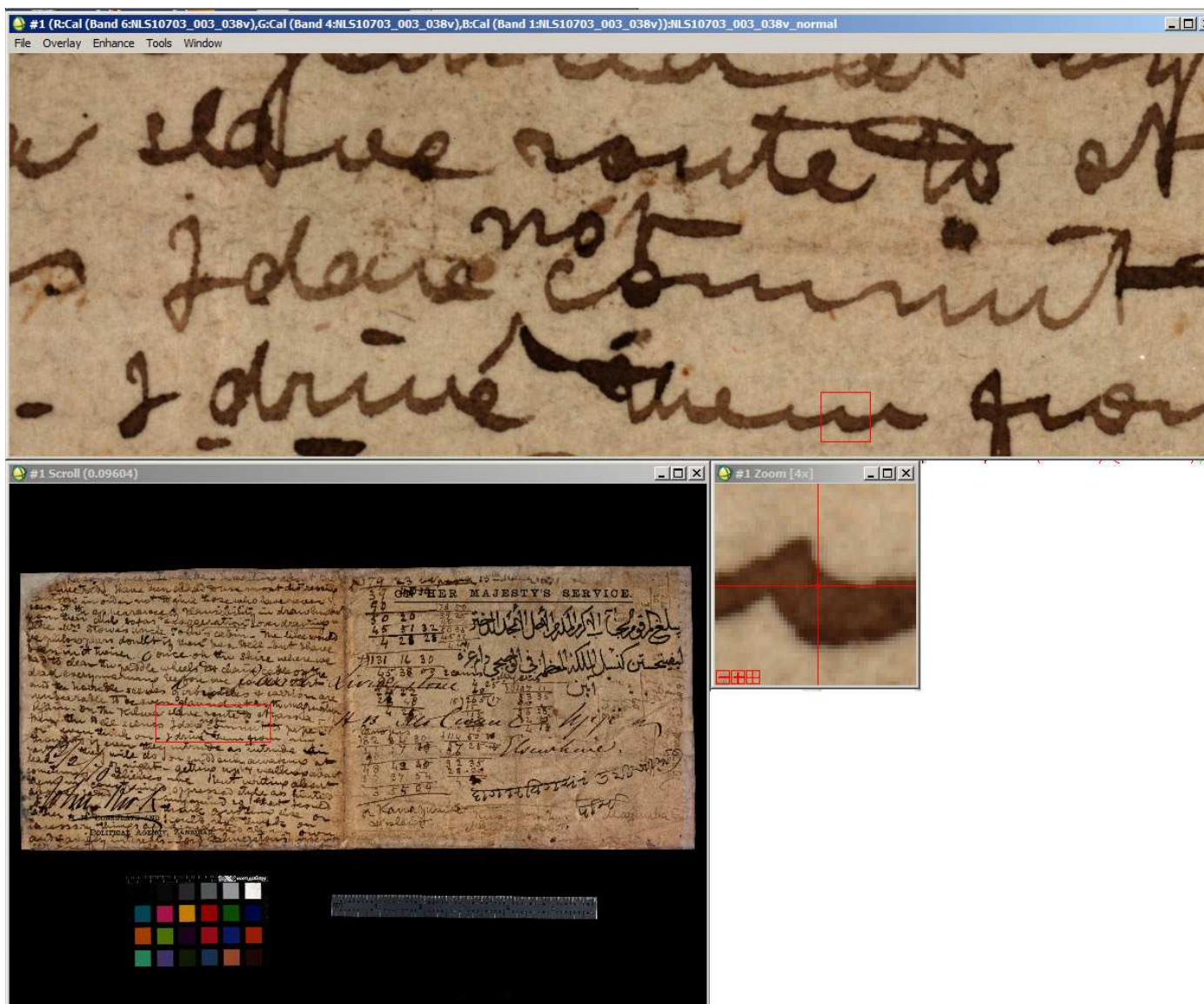
NLS10703_002_038v_SpectrumE



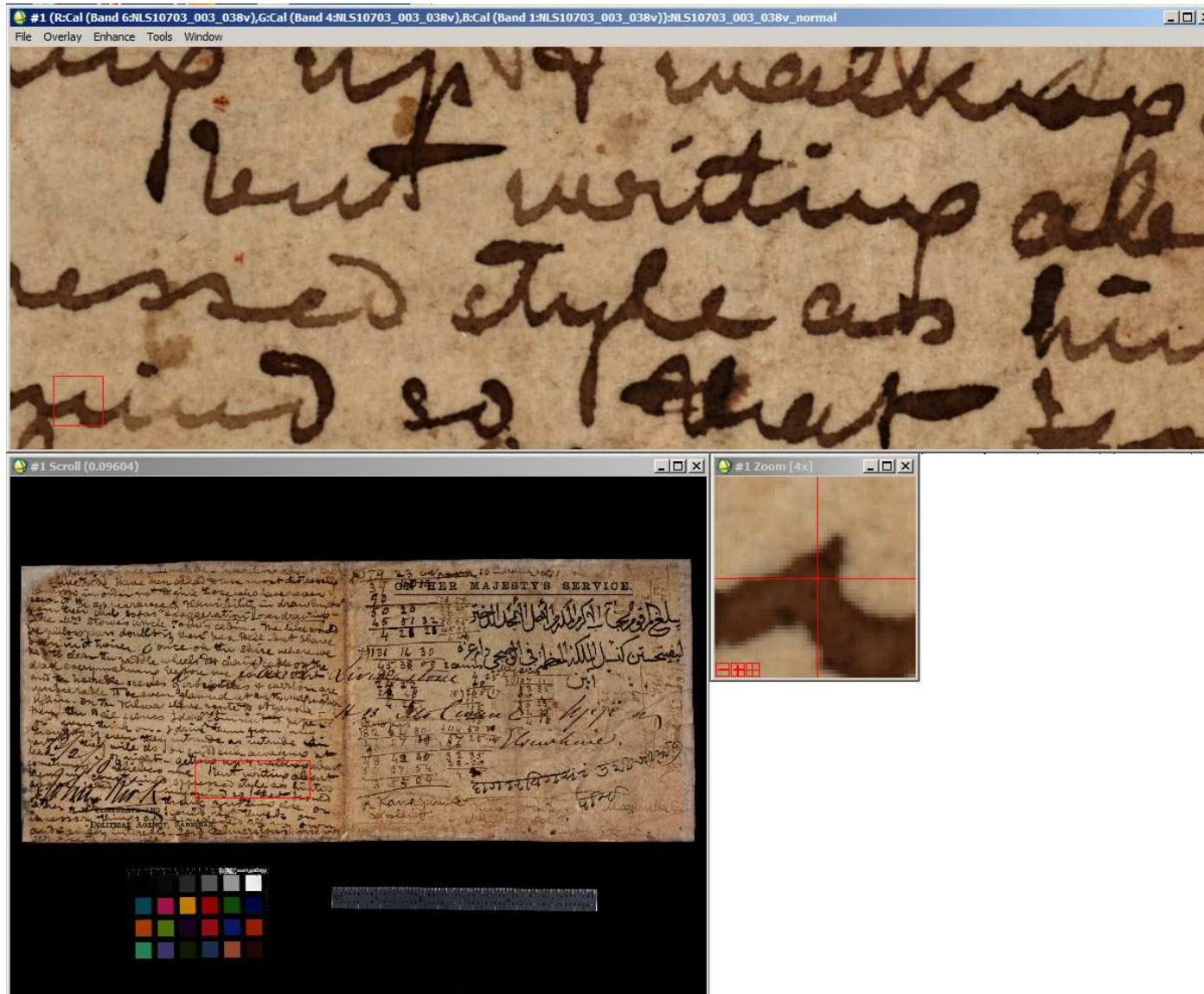
NLS10703_002_038v_SpectrumF



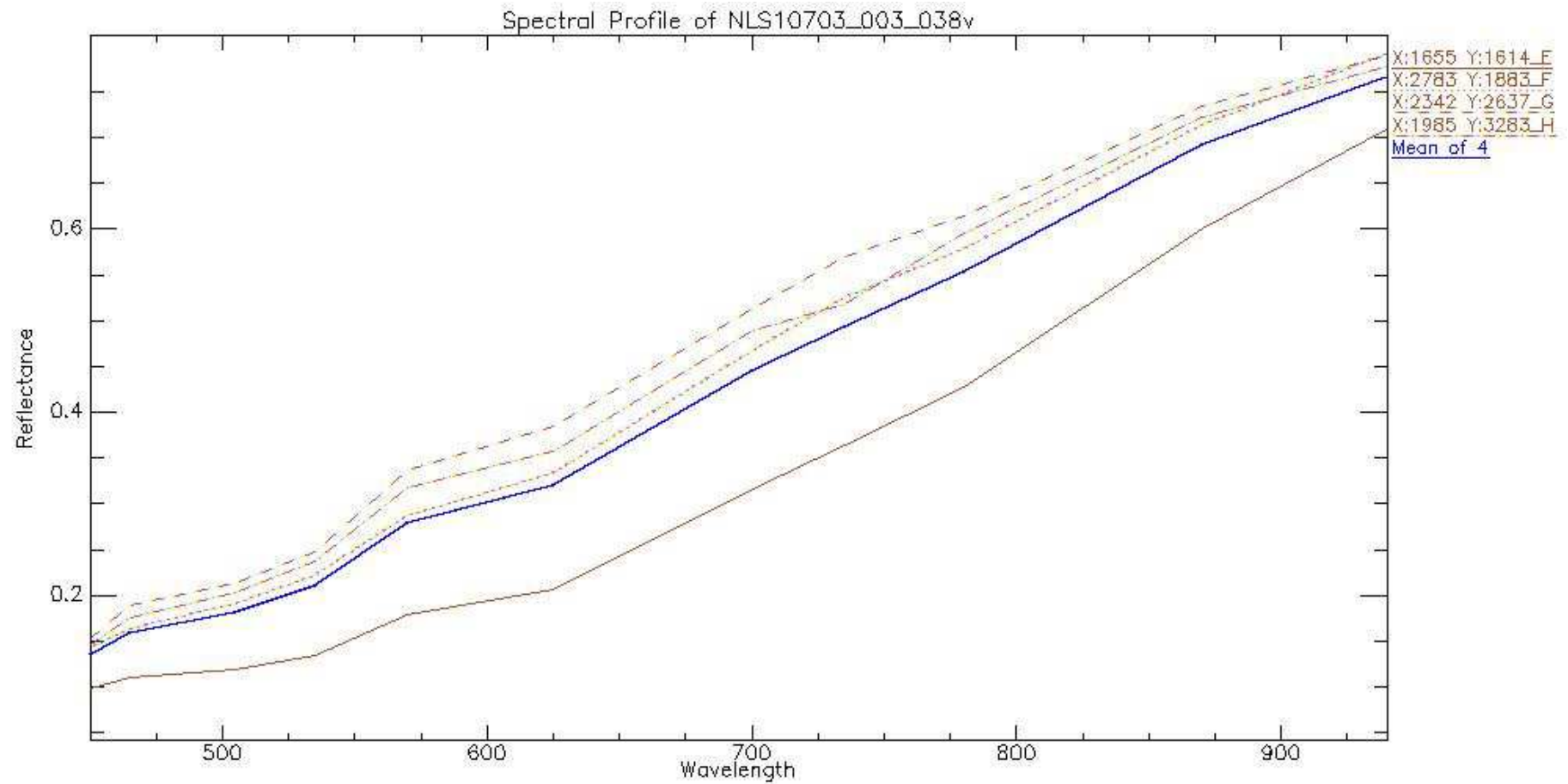
NLS10703_002_038v_SpectrumG



NLS10703_002_038v_SpectrumH



Spectra and Mean of Inks on Left-Hand Side of NLS10703_002_038v



Mean Spectra of Signature and Page Inks on NLS10703_002_038v

