Polynomial backgrounds for [BMIM][DCA] Raman spectra

-(A0

+A1\*Col(A)

+A2\*Col(A)^2

+A3\*Col(A)^3

+A4\*Col(A)^4

+A5\*Col(A)^5

+A6\*Col(A)^6

+A7\*Col(A)^7

+A8\*Col(A)^8)

+Col(B)

Region 1

A0 = -152875543174662

A1 = 422318858245.115

A2 = -509720583.409335

A3 = 351067.686292808

A4 = -150.913796715041

A5 = 0.0414611441575048

A6 = -7.10924359533241E-6

A7 = 6.95590028160318E-10

A8 = -2.97333658563319E-14

-(-152875543174662

+422318858245.115\*Col(A)

+ -509720583.409335\*Col(A)^2

+351067.686292808\*Col(A)^3

+-150.913796715041\*Col(A)^4

+0.0414611441575048\*Col(A)^5

+-7.10924359533241E-6\*Col(A)^6

+6.95590028160318E-10\*Col(A)^7

+-2.97333658563319E-14\*Col(A)^8)

+Col(B)

Linear from 2594.79 - 2400

-3404593.68444639

2373.81204056272

-(-3404593.68444639 +2373.81204056272\*Col(A))+Col(B)

Region 2

A0 = 938759645564866

A1 = -3488680108150.17

A2 = 5668707151.81923

A3 = -5260253.8875169

A4 = 3048.92828958806

A5 = -1.13033088255894

A6 = 2.61747271881634E-4

A7 = -3.4614596877703E-8

A8 = 2.00149090719232E-12

-(938759645564866

+-3488680108150.17\*Col(A)

+5668707151.81923\*Col(A)^2

+ -5260253.8875169\*Col(A)^3

+3048.92828958806\*Col(A)^4

+-1.13033088255894\*Col(A)^5

+2.61747271881634E-4\*Col(A)^6

+-3.4614596877703E-8\*Col(A)^7

+2.00149090719232E-12\*Col(A)^8)

+Col(B)

Linear from 2450 - 2303.32

1691060.71638928

-677.300978355466

-(1691060.71638928 - 677.300978355466\*Col(A))+Col(B)

Linear from 1996.61 - 1900

872536.720311931

-316.036331226422

-(872536.720311931

- 316.036331226422\*Col(A))+Col(B)

Region 3

A0 = -4430058925649.59

A1 = 25154128238.7984

A2 = -62323392.9978746

A3 = 88011.4644176261

A4 = -77.4844149076861

A5 = 0.0435512371559331

A6 = -1.52623979670695E-5

A7 = 3.04921893592564E-9

A8 = -2.6591301614143E-13

-(-4430058925649.59

+25154128238.7984\*Col(A)

+-62323392.9978746\*Col(A)^2

+88011.4644176261\*Col(A)^3

+-77.4844149076861\*Col(A)^4

+0.0435512371559331\*Col(A)^5

+-1.52623979670695E-5\*Col(A)^6

+3.04921893592564E-9\*Col(A)^7

+-2.6591301614143E-13\*Col(A)^8)

+Col(B)

Quadratic from 1623.961 - 1900

A0 = 6114590.81553017

A1 = -5849.37608266271

A2 = 1.46135114941487

-(6114590.81553017

+ -5849.37608266271\*Col(A)

+1.46135114941487\*Col(A)^2)

+Col(B)

Region 4

A0 = 12224440002209.5

A1 = -92401305925.9639

A2 = 304983534.181036

A3 = -574115.099360806

A4 = 674.150681015892

A5 = -0.505644645975857

A6 = 2.36570960274159E-4

A7 = -6.31227930038864E-8

A8 = 7.35422959998326E-12

-(12224440002209.5

+-92401305925.9639\*Col(A)

+304983534.181036\*Col(A)^2

+-574115.099360806\*Col(A)^3

+674.150681015892\*Col(A)^4

+-0.505644645975857\*Col(A)^5

+2.36570960274159E-4\*Col(A)^6

+-6.31227930038864E-8\*Col(A)^7

+7.35422959998326E-12\*Col(A)^8)

+Col(B)

Region 5

A0 = 6231283613539.62

A1 = -60896170382.1988

A2 = 259882776.971548

A3 = -632594.431012521

A4 = 960.62715169487

A5 = -0.931903402346593

A6 = 5.640013615305E-4

A7 = -1.94703032364117E-7

A8 = 2.935446875719E-11

-(6231283613539.62

+-60896170382.1988\*Col(Y1)

+259882776.971548\*Col(Y1)^2

+-632594.431012521\*Col(Y1)^3

+960.62715169487\*Col(Y1)^4

+-0.931903402346593\*Col(Y1)^5

+5.640013615305E-4\*Col(Y1)^6

+-1.94703032364117E-7\*Col(Y1)^7

+2.935446875719E-11\*Col(Y1)^8)

+Col(Y2)

Region 6

i) First part

A0 = -53710596.1287026

A1 = 541101.162355863

A2 = -2119.23054794084

A3 = 4.02784524637386

A4= -0.00371400253941264

A5 = 1.33257411277177E-6

-(-53710596.1287026

+541101.162355863\*Col(A)

+-2119.23054794084\*Col(A)^2

+4.02784524637386\*Col(A)^3

+-0.00371400253941264\*Col(A)^4

+1.33257411277177E-6\*Col(A)^5)

+Col(B)

ii) Second part

A0 = 16053983.5796162

A1 = -86349.5725023596

A2 = 116.234948100503

-(16053983.5796162

+-86349.5725023596\*Col(A)

+116.234948100503\*Col(A)^2)

+Col(B)