$$\frac{-7/8\langle16\rangle\langle3|1+4|2](s_{123}-s_{234})\langle1|2+3|5](s_{13}-s_{24})}{\langle14\rangle\langle1|2+3|4]^2\langle2|1+4|3]\Delta_{14|23|56}}+$$

$$\frac{7/2\langle16\rangle\langle13\rangle^3[15][23]}{\langle12\rangle\langle14\rangle\langle1|2+3|1]\langle1|2+3|4]^2}+$$

$$\frac{7/2\langle13\rangle^2\langle16\rangle[25]}{\langle12\rangle\langle14\rangle\langle1|2+3|4]^2}+$$

$$\frac{7/4\langle6|1+4|5](s_{24}-s_{13})s_{123}(s_{124}-s_{134})}{\langle1|2+3|4]\langle2|1+4|3]\Delta_{14|23|56}}+$$

$$\frac{-7/2[13]^3\langle16\rangle[15]\langle13\rangle^4\langle12\rangle\dots\langle\!\langle87\text{ terms}\rangle\!\rangle\dots+49/4[13]\langle46\rangle\langle13\rangle^3\langle23\rangle[34]^2\langle34\rangle[35]}{\langle12\rangle^2\langle14\rangle[14]\langle23\rangle[23]\langle56\rangle[56]\langle1|2+3|4]\langle2|1+4|3]}+$$

$$\frac{-49/64\langle6|1+4|5]\langle3|1+4|2](s_{123}-s_{234})s_{123}(s_{124}-s_{134})}{\langle1|2+3|4]\langle2|1+4|3]\Delta_{14|23|56}^2}+$$

$$\frac{-21/8\langle6|1+4|5]\langle13\rangle\langle3|1+4|2]\langle4|1+2|3]}{\langle14\rangle\langle1|2+3|4]\langle2|1+4|3]\Delta_{14|23|56}}+$$

$$\frac{-7/8\langle6|1+4|5]\langle3|1+4|2][34]\langle34\rangle(s_{23}-s_{56})}{\langle14\rangle[14]\langle1|2+3|4]\langle2|1+4|3]\Delta_{14|23|56}}+$$

$$\frac{\langle3|1+4|2](s_{23}-s_{56})(-35/16\langle26\rangle\langle13\rangle\langle24\rangle[25]\dots\langle\!\langle3\text{ terms}\rangle\!\rangle\dots+7/4\langle12\rangle\langle24\rangle[25]\langle36\rangle)}{\langle14\rangle\langle23\rangle\langle1|2+3|4]\langle2|1+4|3]\Delta_{14|23|56}}+$$

$$\frac{\langle3|1+4|2]\langle12\rangle\langle46\rangle(s_{23}-s_{56})(7/16[24]\langle24\rangle\langle36\rangle+7/16[24]\langle23\rangle\langle46\rangle+7/16[34]\langle36\rangle\langle34\rangle)}{\langle14\rangle\langle23\rangle\langle56\rangle\langle1|2+3|4]\langle2|1+4|3]\Delta_{14|23|56}}+$$

$$\frac{7/8\langle6|1+4|5][13]\langle3|1+4|2]\langle23\rangle[24]}{[14]\langle1|2+3|4]\langle2|1+4|3]\Delta_{14|23|56}}+$$

$$\frac{[24]\langle3|1+4|2](s_{23}-s_{56})(7/16\langle26\rangle[13][25]-7/16[35][13]\langle36\rangle-7/8[35]\langle26\rangle[12]-7/8\langle46\rangle[13][45])}{[14]\langle23\rangle\langle1|2+3|4]\langle2|1+4|3]\Delta_{14|23|56}}+$$

$$\frac{\langle3|1+4|2](s_{23}-s_{56})(-7/8[13]\langle13\rangle\langle36\rangle[34][12][35]\dots\langle\!\langle6\text{ terms}\rangle\!\rangle\dots-7/8[13]^2\langle13\rangle\langle36\rangle\langle23\rangle[45])}{[14]\langle23\rangle\langle56\rangle[56]\langle1|2+3|4]\langle2|1+4|3]\Delta_{14|23|56}}+$$

$$\frac{\langle3|1+4|2](413/32[13]\langle12\rangle\langle36\rangle\langle34\rangle\langle24\rangle[24]^2[35]\dots\langle\!\langle213\text{ terms}\rangle\!\rangle\dots-63/16\langle23\rangle\langle36\rangle\langle24\rangle^2[24][23]^2[45])}{\langle23\rangle[23]\langle56\rangle[56]\langle1|2+3|4]\langle2|1+4|3]\Delta_{14|23|56}}+$$

$$\frac{(s_{124}-s_{134})(-21/8\langle23\rangle^2\langle36\rangle\langle34\rangle[23]^3[45]\dots\langle\!\langle42\text{ terms}\rangle\!\rangle\dots-21/8[13]\langle13\rangle\langle23\rangle\langle36\rangle\langle34\rangle[23]^2[45])}{\langle23\rangle[23]\langle56\rangle[56]\langle1|2+3|4]\langle2|1+4|3]\Delta_{14|23|56}}+$$

$$\frac{-7/4[25]\langle46\rangle\langle13\rangle^3\langle23\rangle[12]^2[24]\dots\langle\!\langle10\text{ terms}\rangle\!\rangle\dots+7/4\langle13\rangle^4[34]\langle24\rangle\langle26\rangle[12]^2[35]}{\langle12\rangle^2\langle14\rangle[14]\langle23\rangle[23]\langle56\rangle[56]\langle1|2+3|1]\langle1|2+3|4]}+$$

$$\frac{7/2[13][25]\langle46\rangle\langle13\rangle^2\langle12\rangle^2\langle23\rangle[12][24]\dots\langle\!\langle26\text{ terms}\rangle\!\rangle\dots-7[13][25]\langle46\rangle\langle13\rangle^2\langle12\rangle\langle23\rangle^2[24][23]}{\langle12\rangle^2\langle14\rangle[14]\langle23\rangle[23]\langle56\rangle[56]\langle1|2+3|4]\langle4|5+6|4]}+$$

$$\frac{-63/4\langle12\rangle^2\langle36\rangle\langle34\rangle^2[24]^2[35]\dots\langle\!\langle53\text{ terms}\rangle\!\rangle\dots-7/2\langle13\rangle^2\langle23\rangle^2\langle36\rangle[35][23]^2}{\langle12\rangle^2\langle14\rangle[14]\langle23\rangle[23]\langle56\rangle[56]\langle1|2+3|4]}+$$

$$\frac{-7\langle24\rangle s_{123}[25][35]}{\langle12\rangle[23][56]\langle2|1+4|3]^2}+$$

$$\frac{7/4\langle24\rangle[25]^2(s_{13}-s_{24})[12]}{[23][56]\langle2|1+3|2]\langle2|5+6|2]\langle2|1+4|3]}+$$

$$\frac{7/4[13][25]\langle12\rangle^3\langle36\rangle[12]^2\dots\langle\!\langle9\text{ terms}\rangle\!\rangle\dots+7/4[13][25]\langle12\rangle^2\langle36\rangle\langle24\rangle[12][24]}{\langle12\rangle^2[14][23][56][56]\langle2|1+3|2]\langle2|1+4|3]\langle2|1+3|4]}+$$

$$\frac{[13]\langle13\rangle[12](7/4[14]\langle26\rangle\langle14\rangle^2[45]-7/4\langle46\rangle\langle12\rangle\langle14\rangle[14][45]+7/4\langle14\rangle\langle36\rangle[34]\langle24\rangle[45]-7/4\langle26\rangle\langle13\rangle^2[13][35])}{\langle12\rangle[23]\langle56\rangle[56]\langle2|1+3|2]\langle2|1+4|3]\langle2|1+3|4]}+$$

$$\frac{10[25]\langle46\rangle\langle12\rangle^4\langle34\rangle[14]^2[12]\dots\langle\!\langle161\text{ terms}\rangle\!\rangle\dots+7/2\langle13\rangle\langle36\rangle[34]^2\langle34\rangle\langle24\rangle^3[24][45]}{\langle12\rangle^2\langle14\rangle[14]\langle23\rangle[23]\langle56\rangle[56]\langle2|1+4|3]\langle2|1+3|4]}+$$

$$\frac{3/2[13]^2[25]\langle46\rangle\langle13\rangle\langle12\rangle\langle23\rangle\langle24\rangle[24]\dots\langle\!\langle141\text{ terms}\rangle\!\rangle\dots-17/4\langle13\rangle\langle24\rangle^3\langle26\rangle[12][24]^2[35]}{\langle12\rangle^2[13]\langle14\rangle[14]\langle23\rangle[23]\langle56\rangle[56]\langle2|1+4|3]}+$$

$$\frac{-7/8\langle46\rangle^2 s_{134}\langle3|1+4|2]}{\langle14\rangle\langle56\rangle\langle2|1+4|3]\Delta_{14|23|56}}+$$

$$\frac{7/4\langle46\rangle^2\langle3|1+4|2][56]}{\langle14\rangle\langle2|1+4|3]\Delta_{14|23|56}}+$$

$$\frac{7/8\langle6|1+4|5][13]\langle3|1+4|2][12]}{[14][23]\langle2|1+4|3]\Delta_{14|23|56}}+$$

$$\frac{-1/4\langle46\rangle^2\langle13\rangle[14][12]^2}{[13][56]\langle1|2+3|1]^2\langle4|5+6|4]}+$$

$$\frac{5/2\langle13\rangle[15]^2[12]^2}{[13][14][56]\langle1|2+3|1]^2}+$$

$$\frac{1/4\langle46\rangle\langle14\rangle[12]^3[45]}{[13][23]\langle1|2+3|1]\langle4|5+6|4]^2}+$$

$$\frac{\langle46\rangle(3/4[13]^3\langle13\rangle^3\langle36\rangle\langle24\rangle[24]\dots\langle\!\langle10\text{ terms}\rangle\!\rangle\dots-1/4\langle46\rangle\langle12\rangle\langle23\rangle^2\langle34\rangle[34][12][24][23])}{\langle12\rangle^2[13]\langle14\rangle[14]\langle23\rangle[23]\langle56\rangle\langle1|2+3|1]\langle4|5+6|4]}+$$

$$\frac{-1/4[13]^2[25]\langle13\rangle^2\langle36\rangle\langle24\rangle^2[24]\dots\langle\!\langle35\text{ terms}\rangle\!\rangle\dots+1/4[13][25]\langle46\rangle\langle13\rangle\langle23\rangle^2\langle24\rangle[24][23]}{\langle12\rangle^2[13]\langle14\rangle[14]\langle23\rangle[23]\langle56\rangle[56]\langle1|2+3|1]}+$$

$$\frac{-1/4\langle46\rangle\langle13\rangle\langle24\rangle[12]^2[45]}{\langle12\rangle[13]\langle2|1+3|2]\langle4|5+6|4]^2}+$$

$$\frac{-3/4\langle46\rangle\langle3|1+2|4][45]\langle34\rangle^2}{\langle14\rangle\langle23\rangle\langle2|1+3|4]\langle4|5+6|4]^2}+$$

$$\frac{-1/4\langle46\rangle^2\langle13\rangle\langle23\rangle[12][24]}{\langle12\rangle\langle56\rangle\langle2|1+3|2]^2\langle4|5+6|4]}+$$

$$\frac{\langle13\rangle[12](2\langle46\rangle\langle13\rangle^2[13]^2[24]\dots\langle\!\langle11\text{ terms}\rangle\!\rangle\dots-5/4\langle13\rangle\langle24\rangle\langle26\rangle[12][23][45])}{\langle12\rangle^2[14][23]\langle56\rangle[56]\langle2|1+3|2]\langle4|5+6|4]}+$$

$$\frac{3/4[13]^2\langle23\rangle[34]\langle24\rangle^2\langle26\rangle[12]^2[23][45]\dots\langle\!\langle51\text{ terms}\rangle\!\rangle\dots+7/2\langle23\rangle^4\langle36\rangle[34]\langle34\rangle[35][23]^3}{\langle12\rangle^2[13]\langle14\rangle[14]\langle23\rangle[23]\langle56\rangle[56]\langle2|1+3|4]\langle4|5+6|4]}+$$

$$\frac{7/2[13]^2[25]\langle13\rangle^2\langle14\rangle\langle36\rangle\langle24\rangle[14]\dots\langle\!\langle134\text{ terms}\rangle\!\rangle\dots+3/4[13]\langle46\rangle\langle13\rangle\langle23\rangle^2\langle34\rangle[24][35][23]}{\langle12\rangle^2[13]\langle14\rangle[14]\langle23\rangle[23]\langle56\rangle[56]\langle4|5+6|4]}+$$

$$\frac{-7/4\langle23\rangle^2[25]^2 s_{123}}{\langle12\rangle[56]\langle2|1+3|2]^2\langle2|1+3|4]}+$$

$$\frac{-21/4\langle24\rangle[25]^2(s_{13}-s_{24})[12]^2}{[13][23][56]\langle2|1+3|2]\langle2|5+6|2]^2}+$$

$$\frac{-7/4\langle46\rangle\langle26\rangle[12]^2[24](s_{13}-s_{24})}{[13][23]\langle56\rangle\langle2|1+3|2]\langle2|5+6|2]\langle2|1+3|4]}+$$

$$\frac{5/2(s_{13}-s_{24})[25]\langle2|1+3|5][12]^2}{[13][23][56]\langle2|1+3|2]\langle2|5+6|2]\langle2|1+3|4]}+$$

$$\frac{-3/4[15][25]\langle24\rangle[12][24](s_{13}-s_{24})}{[13][23][56]\langle2|1+3|2]\langle2|5+6|2]\langle2|1+3|4]}+$$

$$\frac{21/4\langle24\rangle[25]^2[12]^2}{[13][23][56]\langle2|1+3|2]\langle2|5+6|2]}+$$

$$\frac{7/4\langle12\rangle^3\langle36\rangle[14][12]^3[35]\dots\langle\!\langle40\text{ terms}\rangle\!\rangle\dots+3/4\langle23\rangle^2\langle24\rangle\langle26\rangle[12][24]^2[35][23]}{\langle12\rangle^2[13][14][23]\langle56\rangle[56]\langle2|1+3|2]\langle2|1+3|4]}+$$

$$\frac{7/2\langle13\rangle\langle14\rangle^2\langle36\rangle\langle24\rangle[14]^3[35]\dots\langle\!\langle35\text{ terms}\rangle\!\rangle\dots-7/2\langle23\rangle\langle36\rangle[34]\langle34\rangle\langle24\rangle^2[24]^2[35]}{\langle12\rangle^2[13]\langle14\rangle[14]\langle23\rangle[23]\langle56\rangle[56]\langle2|1+3|4]}+$$

$$\frac{-69/4[13][25]\langle12\rangle^2\langle36\rangle\langle34\rangle[12]\dots\langle\!\langle68\text{ terms}\rangle\!\rangle\dots-41/4[13]\langle13\rangle\langle23\rangle\langle36\rangle\langle34\rangle[35][23]}{\langle12\rangle^2[13]\langle14\rangle[14]\langle23\rangle[23]\langle56\rangle[56]}+$$

$$\frac{-489/16\langle12\rangle[35]\langle36\rangle\langle34\rangle^2\dots\langle\!\langle10\text{ terms}\rangle\!\rangle\dots-17/8\langle46\rangle\langle13\rangle\langle23\rangle\langle34\rangle[35]}{\langle12\rangle^2[13]\langle14\rangle\langle23\rangle\langle56\rangle[56]}+$$

$$\frac{-373/16[13][25]\langle46\rangle\langle23\rangle\langle24\rangle\dots\langle\!\langle10\text{ terms}\rangle\!\rangle\dots+99/2[13]\langle13\rangle\langle36\rangle[12][35]}{\langle12\rangle^2[13][14][23]\langle56\rangle[56]}+$$

$$\frac{-611/16\langle12\rangle[15]\langle36\rangle[12]\dots\langle\!\langle6\text{ terms}\rangle\!\rangle\dots+431/16[35]\langle23\rangle\langle36\rangle[12]}{\langle12\rangle^2[13][14]\langle56\rangle[56]}+$$

$$\frac{-1549/48\langle46\rangle\langle13\rangle[13][25]\dots\langle\!\langle6\text{ terms}\rangle\!\rangle\dots+7\langle46\rangle[35][24]\langle34\rangle}{\langle12\rangle^2[13][23]\langle56\rangle[56]}+$$

$$\frac{-3/4[15]\langle46\rangle\langle13\rangle\langle34\rangle[12]}{\langle12\rangle\langle23\rangle[23]\langle56\rangle[56]\langle4|2+3|1]}+$$

$$\frac{-9/4\langle46\rangle[15][12]^2\langle34\rangle}{[13]\langle23\rangle[23]\langle56\rangle[56]\langle4|2+3|1]}$$