



GEMMOLOGICAL REPORT

image is approximate

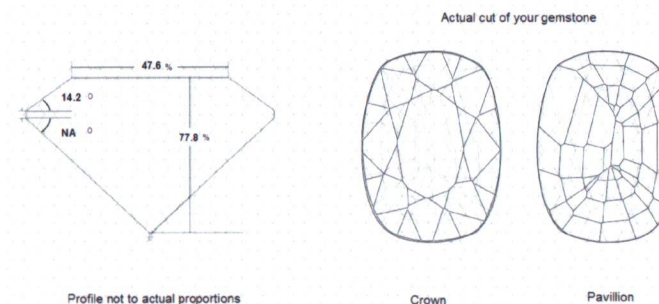
Date 19-Mar-20
Report number R-202028004

Weight 2.128 carats
Measurements 8.38 x 6.31 x 4.91 mm
Shape Cushion

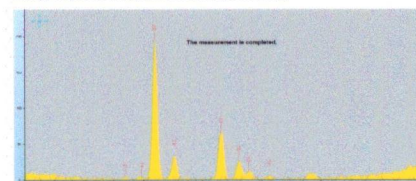
Identification Natural Spinel
Colour Purple

Comment : No Indication of any treatment

Origin determination: Vietnam
Spinel from Vietnam were formed some 25 million years ago



Energy-dispersive X-ray fluorescence spectroscopy



Raman Spectroscopy



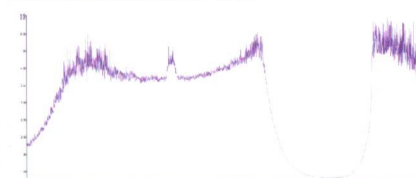
Fourier-transform infrared spectroscopy (T%)



Photoluminescence



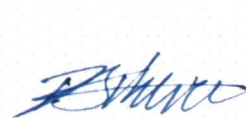
Fourier-transform infrared spectroscopy (A)



Ultraviolet-visible spectroscopy



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Dr. D. Schwarz




M.P.H. Curti, GG

