

**SAMPLE PRETREATMENT USING IN-VALVE AND ON-LINE COLUMNS
IN FLOW INJECTION SYSTEMS FOR THE DETERMINATION
OF CADMIUM, COPPER, LEAD, ZINC, BENZENE,
TOLUENE AND XYLENE**

SUMALEE TANIKKUL

**DOCTOR OF PHILOSOPHY
IN CHEMISTRY**

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**GRADUATE SCHOOL
CHIANG MAI UNIVERSITY**

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**A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN
PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF
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THIS THESIS HAS BEEN APPROVED
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