

C618712: MAJOR NUCLEAR TECHNOLOGY

KEY WORD: LOW-LEVEL TRITIUM MEASUREMENT / GROUND WATER / RAIN WATER / LIQUID SCINTILLATION. PISIT SUNTARAPAI : LOW-LEVEL TRITIUM MEASUREMENT IN GROUND WATER AND RAIN WATER USING A LIQUID SCINTILLATION COUNTER. THESIS ADVISOR: ASST.PROF. CHAYAKRIT SIRIUPATHAM. THESIS CO-ADVISOR : MISS SOMKID BUAPENG. 55 pp. ISBN 974-635-779-4

The measurement of low level tritium content in some natural water samples : rain water and ground water samples were conducted using electrolytic enrichment method and ultra low level liquid scintillation counting enabled measuring tritium content in water samples down to a detection limit of 0.1 TU . As for the same measurement without enrichment the minimum detection limit is calculated to be 3.5 TU .

The measurement of tritium content in rain water samples collected during 1995 - 1996 from Northeast , East , Central and South were found to be from 2.0 ± 0.1 - 8.2 ± 0.1 TU . In the same period , the tritium content in rain water collected at the Office of Atomic Energy for Peace were found to be 7.5 ± 0.1 - 22.1 ± 0.5 TU . The measurement of tritium content in ground water samples from Khonkaen and Mahasarakham collected during 1995 - 1996 were also measured for tritium and found to be from 0.1 ± 0.0 - 4.1 ± 0.2 TU .

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