

**Nuclide Analysis Results of Fish and Shellfish**  
**<Ocean Area Within 20km Radius of Fukushima Daiichi Nuclear Power Station>**  
 Samples collected in the second quarter of FY2016

[Measurement results of Sr-90 (half-life approx. 29 years) in fish]

(Data summarized on December 20)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Concentration [Bq/kg(Raw)] (Half-life)	
			Sr-90 (Approx. 29 years)	Reference <sup>*1</sup> (Sum of Cs-134 and Cs-137)
Angel shark (whole) *2	Around 1km Offshore of Ota River (T-S1)	Aug. 5, 2016	0.046	115
Blue crab (whole) *3	Around 1km Offshore of Ota River (T-S1)	Sept. 16, 2016	0.048	17
Angel shark (whole) *3	Around 1km Offshore of Ota River (T-S1)	Sept. 16, 2016	0.076	18
Sebastes cheni (whole) *2	Around 2km Offshore of Kido River (T-S5)	Aug. 27, 2016	0.27	42.6
Stone flounder(whole) *2	Around 15km Offshore of Odaka Ward (T-B1)	Jul. 5, 2016	0.032	26.7
Common skete (whole) *3	Around 10km Offshore of Fukushima Daini (T-B4)	Jul. 15, 2016	0.13	17
Yellowtail (whole) *2, *4	Around 3km Offshore of Fukushima Daiichi (T-S4)	Oct. 13, 2016	ND (0.015)	ND(3.3 , 3.6)
Common horse mackerel (whole) *3, *4	Around 3km Offshore of Ukedo River (T-S3)	Oct. 13, 2016	0.021	ND(3.5 , 3.9)

\*The sum of Cs-134 and Cs-137 radioactivity concentrations as a standard value (since April 1, 2012) is 100Bq per kg.

\*ND indicates that the value is less than the detection limit of a radioactive concentration. The detection limit is provided in parenthesis in the order of Cs-134 and Cs-137.

\*Edible parts of fish were used for the measurement.

\*The Sr-90 analysis was conducted by <sup>\*2</sup>KANSO CO., LTD. and by <sup>\*3</sup>Kyushu Environmental Evaluation Association.

\*Among Sr-90 analysis, <sup>\*4</sup>other samples (the ones with lower concentrations of Cs-134 and Cs-137) were conducted based on the request from Fisheries Agency.

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[Measurement results of Tritium (half-life approx. 12 years) in fish]

Place of Sampling(Place No.): Around 4km Offshore of Kumagawa (T-S8)

(Data summarized on December 20)

Name of Sample (Region)	Date of Sampling	Tritium concentration (Bq/L)		Tritium concentration (Bq/kg (Raw))		Reference (Sum of Cs-134 and Cs-137) (Bq/kg (Raw))
		Free Water Tritium	Organically Bound Tritium	Free Water Tritium	Organically Bound Tritium	
Flatfish(muscle)	Jul. 8, 2016	0.086	ND(0.26)	0.067	ND(0.037)	ND
Flatfish(muscle)	Aug. 24, 2016	0.087	ND(0.26)	0.070	ND(0.034)	5.8
Flatfish(muscle)	Sept. 25, 2016	0.11	ND(0.27)	0.087	ND(0.037)	ND

Reference

	Date of Sampling	Tritium concentration (Bq/L)
Around 4km Offshore of Kumagawa (T-S8) Seawater	Jul. 7, 2016	0.084
	Aug. 24, 2016	0.091
	Sept. 25, 2016	0.12

\*The sum of Cs-134 and Cs-137 radioactivity concentrations as a standard value (since April 1, 2012) is 100Bq per kg.

\*The tritium analysis was conducted by Kyushu Environmental Evaluation Association.

\*Edible parts of fish were used for the measurement.

\*Free Water Tritium means tritium which is contained in the moisture of fish muscles and the values are compared with tritium concentrations in seawater where fish lives.

Organically Bound Tritium means tritium which is contained in dried fish muscles and the values show tritium concentrations in the vapor generated when dried fish is burned.

\*The measurement results are calculated to two significant figures.

\*ND, not detected, indicates that a value is less than the detection limit of a radioactive concentration. The detection limit is provided in parenthesis.