

Nuclide Analysis Results of Fish and Shellfish
<Ocean Area Within 20km Radius of Fukushima Daiichi Nuclear Power Station>
 Samples collected in the fourth quarter of FY2018

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

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Concentration [Bq/kg(Raw)] (Half-life)	
			Sr-90 ^{*1} (Approx. 29 years)	Reference ^{*1} (Sum of Cs-134 and Cs-137)
Roundnose flounder (whole) *3	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	March 7, 2019	0.090	21
Black sea bream (whole) *2	Around 2km Offshore of Kido River (T-S5)	March 19, 2019	0.22	ND
Black sea bream (whole) *2	Around 2km Offshore of Fukushima Daini NPS(T-S7)	January 22, 2019	2.4	ND
Schlegel's black rockfish(whole) *3	Around 2km Offshore of Fukushima Daini NPS(T-S7)	February 26, 2019	0.20	9.4
Marbled sole (whole) *2	Around 10km Offshore of Fukushima Daiichi (T-B3)	March 18, 2019	ND(0.015)	31

*1 Cs: Edible parts of fish were used for the measurement. Sr: Whole of fish were used for the measurement.

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

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

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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)

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)	January 24, 2019	0.075	ND(0.28)	0.059	ND(0.041)	ND
Flatfish (muscle)	February 7, 2019	0.091	ND(0.27)	0.070	ND(0.043)	ND
Flatfish (muscle)	March 15, 2019	0.091	ND(0.27)	0.070	ND(0.043)	ND

Reference

	Date of Sampling	Tritium concentration (Bq/L)
Around 4km Offshore of Kumagawa (T-S8) Seawater	January 23, 2019	0.057
	February 6, 2019	0.069
	March 15, 2019	0.063

*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.