



Chem  
THEATRE

ChemTHEATRE MANUAL  
(Ver. 2.1.2)

2020.02.27 revised



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# 1. Introduction

ChemTHEATRE: Chemicals in the THEATRE [T]ractable and [H]euristic [E]-Archive for [T]raceability and [R]esponsible-care [E]ngagement] is the platform to deposit and visualize monitoring data of environmental contaminants more effectively than ever.

You can currently see so many monitoring data of environmental contaminants in scientific journals or reports by public organizations, but unfortunately you can see them in a variety of forms such as texts or excel files. That leads to poor use of such valuable data, which can be input data for the modeling and materials for validation.

To tackle this problem and make use of these valuable data, we first put together such scattered data in one database: ChemTHEATRE, properly and well organized. It will ensure traceability of chemicals and help you simulate the environmental behavior and fate, or assess the risk. Moreover, ChemTHEATRE will make the prediction of global chemical pollution easier in cooperation with external database or other tools in near future.

## 2. ChemTHEATRE Top page

English -

English

Japanese

English⇔Japanese Switchable!

**Released Entries**

Sample Top10		Chemical substance Top10		Contributor Top10	
Sample	#Samples	Chemical	#Data	Submitted by	
Water	2705	Flame retardants PBDEs	9652	Ehime University	
Homo sapiens	1585	Organochlorines PCBs	8951	Ministry of the Environment website	
Sediment	1066	Organochlorines Co-PCBs	6182	National Institute for Environmental Studies	
Neophocaena phocaenoides	216	PAHs	4291	Kagoshima University	5
Soil	205	Organochlorines PCDFs	3585	Fisheries Research and Education Agency	4
Air	172	Pesticides	3204	Wadsworth Center (New York State Department of Health)	4
Mytilus galloprovincialis	169	PPCPs	3147	Hokkaido Research Organization	1
Perna viridis	120	PPCPs	2853	The University of Tokyo	1
Katsuwonus pelamis	87	Organochlorines PCDDs	2808	Tokyo University of Agriculture & Technology	1
Nyctereutes procyonoides	86	Phenols	2574	Fukuoka Prefecture	1

**New arrival project**

ProjectID	Submitter	ReleaseDate	Title	Publication
PRA000098	Open data (Ministry of the Environment)	2019/10/18	[MOE_JP] The Detailed Environmental Survey in FY2017 (Source: FY2018 Report of Chemicals in the Environment <a href="#">English / Japanese</a> )	
PRA000097	Open data (Ministry of the Environment)	2019/09/13	[MOE_JP] The Initial Environmental Survey in FY2017 (Source: FY2018 Report of Chemicals in the Environment <a href="#">English / Japanese</a> )	
PRA000096	Open data (Ministry of the Environment)	2019/09/02	[MOE_JP] The monitoring of agricultural chemicals in river water in FY2018 (Source: FY2018 (H30)agricultural monitoring report)	
PRA000095	Ruriko Tahara (Hokkaido Research Organization)	2019/07/26	[LOC_JP] Survey on Perfluorinated chemicals in Aquatic Environment in Hokkaido (Source: Report of Institute of Environmental Sciences No. 3 (No. 39))	
PRA000094	Takeshi Hano (Fisheries Research and Education Agency)	2019/06/24	Occurrence of neonicotinoids and fipronil in estuaries and their potential risks to aquatic invertebrates	<a href="https://doi.org/10.1016/j.envpol.2019.05.067">10.1016/j.envpol.2019.05.067</a>
PRA000093	Open data	2019/06/20	[MOE_JP] The monitoring of agricultural chemicals in river water in FY2013 (Source: FY2013 (H25) agricultural monitoring report)	

### 2 - 1. Release Entries and New arrival project

Release Entries	Sample Top 10	The top ten sample groups which are registered in ChemTHEATRE
	Chemical Substance Top 10	The top ten Chemical groups which are registered in ChemTHEATRE
	Contributor Top 10	The top ten submitters of monitoring data
New arrival project	The latest ten projects (Project ID, Submitter, Title, etc.)	

## 2 – 2. Menu bar

**About**

**ChemTHEATRE Wiki**



**Project Search**


**Sample Search**

**Chemical Search**

**Register your data:**  
[register@chem-theatre.com](mailto:register@chem-theatre.com)




**For inquiry:**  
[info@chem-theatre.com](mailto:info@chem-theatre.com)



[Site Policy](#)

Copyright (C) 2016  
ChemTHEATRE

<b>About</b>	Introduction About ChemTHEATRE
<b>ChemTHEATRE Wiki</b>	ChemTHEATRE Wiki
<b>Project Search</b>	Search by project info. (p.4)
<b>Sample Search</b>	Search by sample info. (p.8)
<b>Chemical Search</b>	Search by chemical info. (p.15)
<b>Resister your data:</b> <a href="mailto:register@chem-theatre.com">register@chem-theatre.com</a>	Contact address for registration of your data
<b>For inquiry:</b> <a href="mailto:info@chem-theatre.com">info@chem-theatre.com</a>	Contact address for inquiry
 	ChemTHEATRE's Tweeter, ChemTHEATRE's Facebook
	Indicates that the CAS Registry Numbers® of the registered chemical substances have been confirmed by the Lookup service
<b>Site Policy</b>	Terms and conditions of use of ChemTHEATRE

### 3. Project Search

<Project search Top>

## Projects

ProjectID

Sample Type

Scientific Name

Tissue / Organ

Keyword

Chemical Groups

Chemical Name

Collection Region

Collection Country


Collection Year  -

Show  entries  
Showing 1 to 50 of 96 entries

ProjectID	Submitter	Title	Samples	doi	MeasuredData	RegisterDate
<a href="#">PRA000098</a>	Open data (Ministry of the Environment)	[MOE_JP] The Detailed Environmental Survey in FY2017 (Source: FY2018 Report of Chemicals in the Environment <a href="#">English / Japanese</a> )	<a href="#">Samples</a>		<a href="#">MeasuredData</a>	2019/10/18
<a href="#">PRA000097</a>	Open data (Ministry of the Environment)	[MOE_JP] The Initial Environmental Survey in FY2017 (Source: FY2018 Report of Chemicals in the Environment <a href="#">English / Japanese</a> )	<a href="#">Samples</a>		<a href="#">MeasuredData</a>	2019/09/13

#### 3 – 1 . Search Parameters

Project ID	Project ID which is assigned by ChemTHEATRE
Sample Type	Select a Sample type from pull-down menu (Biotic→Mammals, Birds, Reptiles … Abiotic→Water, Sediment …)
Scientific Name	After selecting a Sample type, pull-down menu of Scientific names categorized in the selected Sample Type shows up. Select one.
Tissue / Organ	After selecting Scientific Name, the pull-down menu of the registered Tissues and Organs shows up.
Keyword	Search with keywords
Chemical Groups	Select a Chemical group from pull-down menu
Chemical Name	After selecting a Chemical Group, the pull-down menu of Chemical Names categorized in the selected Chemical group shows up. Select one.
Collection Region	Region where the sample was collected. Select one from pull-down menu.
Collection Country	After selecting Region, the pull-down menu of the Country shows up.
Collection Year	Year when the sample was collected.

Input parameters and click  . The list of the requested data will appear on the screen.

### 3 – 2. Project Summary

ProjectID	Submitter	Title	Samples	doi	MeasuredData	RegisterDate
<a href="#">PRA000002</a>	Kei Nakayama (Ehime University)	Temporal and spatial trends of organotin contamination in the livers of finless porpoises ( <i>Neophocaena phocaenoides</i> ) and their association with parasitic infection status	<a href="#">Samples</a>		<a href="#">MeasuredData</a>	2016/06/27


Switch Descending/Ascending

Project ID	ID which ChemTHEATRE assigns to a paper, report or project →Click the ID to show the Project Details (p.6)
Submitter	Submitter’s name and his/her affiliation name
Title	Project name (Title of his/her paper)
Samples	Link to the list of the samples used for the project
doi	Digital Object Identifier related to the project →Click the icon to show the original paper
Measured Data	Link to the list of the measured data in the project
Register Date	Register date of the project and its data



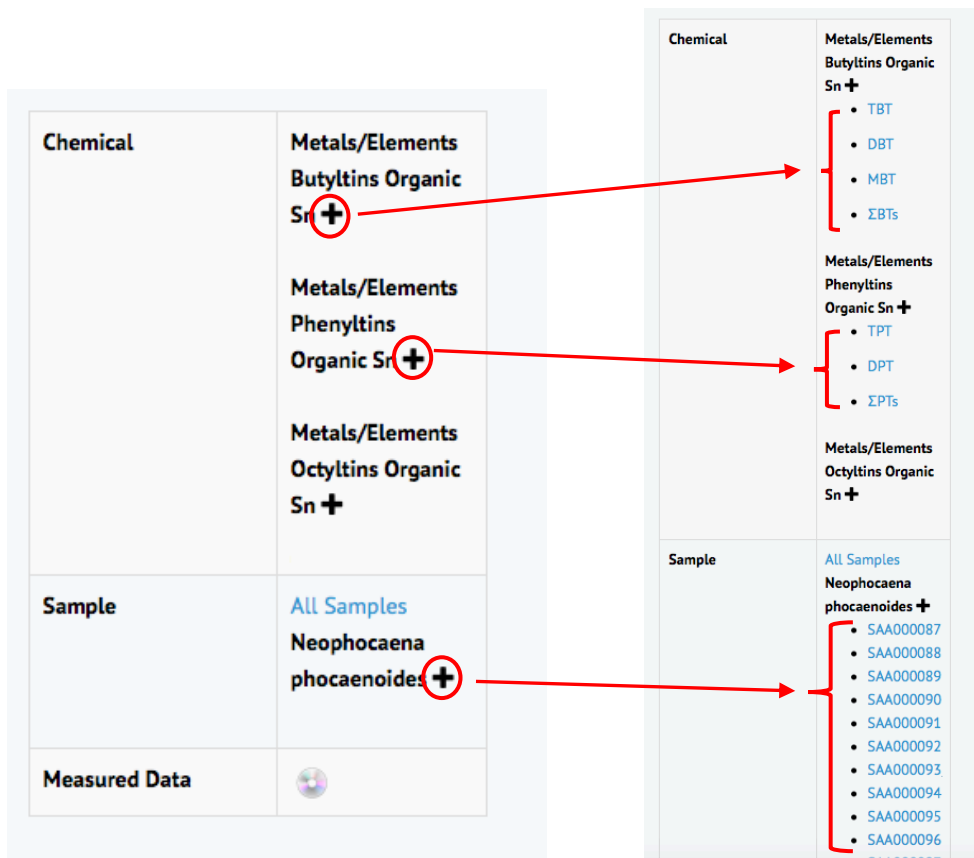
### 3 – 3. Project Details

## Project Details

<b>Project ID</b>	PRA000002	<b>Chemical</b>	<b>Metals/Elements</b> <b>Butyltins Organic Sn +</b>
<b>Submitter</b>	Ehime University, Kei Nakayama		<b>Metals/Elements</b> <b>Phenyltins Organic Sn +</b>
<b>Corresponding Author</b>	Ehime University, Kei Nakayama		<b>Metals/Elements</b> <b>Octyltins Organic Sn +</b>
<b>Release Date</b>	2016/06/27		
<b>Title</b>	Temporal and spatial trends of organotin contamination in the livers of finless porpoises ( <i>Neophocaena phocaenoides</i> ) and their association with parasitic infection status		
<b>doi</b>	<ul style="list-style-type: none"> <li>• <a href="https://doi.org/10.1016/j.scitotenv.2009.08.043">10.1016/j.scitotenv.2009.08.043</a></li> </ul>	<b>Sample</b>	<a href="#">All Samples</a> <b>Neophocaena phocaenoides +</b>
<b>Grant</b>	Grants-in-Aid for Scientific Research (S) (No. 20221003) from Japan Society for the Promotion of Science	<b>Measured Data</b>	
<b>Register Date</b>	2016/06/27		
<b>Update Date</b>	2016/06/27		

Project ID	ID which ChemTHEATRE assigns to a paper, report or project
Submitter	Submitter's name and his/her affiliation name
Corresponding Author	Corresponding author's name and his/her affiliation name
Release Date	Release date in ChemTHEATRE
Title	Project name (title of his/her paper or report)
doi	Digital Object Identifier of the paper related to the project →Click the doi to show the original paper
Grant	Information on research grant
Register Date	Register date in ChemTHEATRE
Update Date	Date of updating, revising the data in ChemTHEATRE

Chemical	Chemical groups which are measured in the project →Expand to show the list of chemical names (p.7)
Sample	Scientific names of the samples which are used in the project →Expand to show the list of samples (p.7)
Measured Data	Click the icon to show the list of measured data



Click “+” to expand



Chemical names and sample IDs are displayed.



Click the chemical names or Sample IDs to show the chemical details (p.16) or sample details (p.10).

## 4. Sample Search

<Sample Search Top>

**Samples**

ProjectID: PRA000002

Sample Type: -

Scientific Name: -

Tissue / Organ: -

Keyword: Project title, Abstract

Chemical Groups: -

Chemical Name: -

Collection Region: -

Collection Country: -

Collection Year: XXXX - XXXX

Show the sampling points on a map

Show/Export the sample list, measured data of the selected samples

Export samples (TSV) Show the measured data of query results Export measured data (TSV)

Show 50 entries  
Showing 1 to 50 of 86 entries

« 1 2 »

Switch Descending/Ascending

ProjectID	SampleID	SampleType	SampleName	Tissue	Collection Country	Collection Year	Chemicals	Measured Data
PRA000002	SAA000087	Marine mammals	<i>Neophocaena phocaenoides</i> - Finless porpoises	Liver	Japan	1996	Metals/Elements	
PRA000002	SAA000088	Marine mammals	<i>Neophocaena phocaenoides</i> - Finless porpoises	Liver	Japan	1999	Metals/Elements	

### 4 – 1. Search Parameters

See 3 – 1. (p.4)

### 4 – 2. Sample Summary

Project ID	ID which ChemTHEATRE assigns to a paper, report or project →Click the ID to show the Project Details (p.6)
Sample ID	ID which ChemTHEATRE assigns to a sample used in the project →Click the ID to show the Sample Details (p.10)
Sample Type	Kinds of sample (Biotic→Mammals, Bird, etc. / Abiotic→Water, Sediment, etc.)
Sample Name	Scientific Name and Common Name are shown here.
Tissue	Names of Tissue, organs used in the project
Collection Country	Sampling country
Collection Year	Sampling year
Chemicals	Only chemical groups with measured data are shown here.
Measured Data	Click this icon to show the list of measured data

Show Map

Click this button to show the sampling points on a map

## Samples Map

ProjectID	<input type="text" value="PRA000002"/>	Chemical Groups	<input type="text" value="-"/>
Sample Type	<input type="text" value="-"/>	Chemical Name	<input type="text" value="-"/>
Scientific Name	<input type="text" value="-"/>	Collection Region	<input type="text" value="-"/>
Tissue / Organ	<input type="text" value="-"/>	Collection Country	<input type="text" value="-"/>
Keyword	<input type="text" value="Project title, Abstract"/>	Collection Year	<input type="text" value="XXXX"/> - <input type="text" value="XXXX"/>




Show  entries

### 4 - 3. Sample Details


**Sample** Show/Hide blank data Show/Hide blank data Switchable

Sample ID	SAA000087
Sample Type	Marine mammals
Taxonomy ID	<a href="#">34892</a>
Scientific Name	<i>Neophocaena phocaenoides</i>
Common Name	Finless porpoises
Collection Year	1996
Collection Month	4
Collection Day	18
Collection Region	Asia
Collection Country	Japan
Collection Area	Seto Inland Sea
Collection Latitude From	33.61055556
Collection Latitude To	33.91
Collection Longitude From	131.1952778
Collection Longitude To	134.6513889

**Maps**



Tissue / Organ	Liver
Weight	5.25
Weight Unit	kg
Length	72
Length Unit	cm
Length Type	Body length
Uniq Code Type	es-BANK
Uniq Code	EW00884
Register Date	2016/6/27
Update Date	2016/8/8

Projects	• <a href="#">PRA000002</a>
Chemical	<a href="#">Metals/Elements Butyltins Organic Sn +</a> <a href="#">Metals/Elements Phenyltins Organic Sn +</a> <a href="#">Metals/Elements Octyltins Organic Sn +</a>
Measured Data	

↓

Project	Project IDs in which this sample is used →Click the ID to show the Project details (p.6)
Chemical	Chemical Groups measured by using this sample →Expand to show the list of chemical names (p.7)
Measured Data	Click the icon to show the measured data of this sample

Sampling point is shown as a square only when all of latitudes (From/To) and longitudes (From/To) are input.

General info.	Sample ID	試料 ID
	Sample Type	試料タイプ (種類)
Biotic	Taxonomy ID	NCBI 生物分類 ID
General info.	Scientific Name	学名
	Common Name	一般名
	Collection Year	採取年
	Collection Month	採取月
	Collection Day	採取日
	Sampling Time (Start/End)	サンプリング時間 (開始時/終了時)
	Sampling Time (AM PM)	サンプリング時間 (午前・午後)
	Sampling Duration	サンプリング継続時間
	Weather (Start/End)	天候 (開始時/終了時)
	Temperature (°C) (Start/End)	温度 (°C) (開始時/終了時)
	Collection Region	採取地域
	Collection Country	採取国
	Collection Area	採取地
	Collection Latitude From	採取地の緯度 (From)
	Collection Latitude To	採取地の緯度 (To)
	Collection Longitude From	採取地の経度 (From)
	Collection Longitude To	採取地の経度 (To)
Maps	マップ	
Biotic	Tissue/Organ	組織/臓器
	Tissue Lipid (%)	脂質含量 (%)
	Tissue Moist (%)	水分含量 (%)
	Sex	性別
	Weight	重量
	Weight Unit	重量単位
	Length	長さ
	Length Unit	長さの単位
	Length Type	長さのタイプ
	Growth Stage	成長段階
	Age	年齢
	Disease	疾病

Water	Water Temperature (°C)(Start/End)	水温 (°C) (開始時／終了時)
	pH	pH
	DO (mg/L)	溶存酸素量 Dissolved Oxygen (DO)
	EC (mS/m)	電気伝導率 Electrical Conductivity (EC)
	Salinity	塩分濃度
	SS (mg/L)	浮遊物質/懸濁物質 Suspended solids /substance (SS)
	Water Depth (m)	水の深度 (m)
	Transparency (m)	透明度 (m)
	Water Color	水の色
Sediment	Sediment Temperature (°C)(Start/End)	底質の温度 (°C) (開始時／終了時)
	Sediment Depth (m)	底質の深度 (m)
	Sediment Appearance	底質の外観
	Sediment Color	底質の色
	Sediment Surface Color	底質表層の色
	Sediment Odor	底質の臭気
	Sediment Impurities	底質中の不純物
	Sediment Moisture (%) (On Site / Analysis)	底質の湿度 (%) (採取時／測定時)
	Ignition Loss (%) (On Site / Analysis)	強熱減量 (%) (採取時／測定時)
Soil	Soil Depth (m)	土壌の深度 (m)
Air	Wind Direction (Start / End)	風向 (開始時／終了時)
	Wind Speed (m/s) (Start / End)	風速 (m/s) (開始時／終了時)
	Flow Rate	流速
	Humidity (%) (Start / End)	湿度 (%) (開始時／終了時)
	Amount Of Collected Air (Start / End)	大気採取量 (開始時／終了時)
	Mean PM10	PM10 平均値
	Mean Total Suspended Particles	総浮遊粒子 平均値
General info.	Sample Name	試料名
	Uniq Code Type	固有コード種
	Uniq Code	固有コード
	Remarks	備考
	Register Date	登録日
	Update Date	更新日

## 4 - 4. How to export the data you need

Export samples (TSV)

Show the measured data of query results

Export measured data (TSV)

Export samples (TSV)	Click this button to export the sample list, after narrowing down the samples to ones you need; an example is below. (p.13) (Tab-separated format)
Show the measured data of query results	Click this button to show the measured data together with chemicals on the screen; an example is below. (p.14)
Export measured data (TSV)	Click this button to export the measured data list, after narrowing down the data to ones you need; an example is below. (p.14) (Tab-separated format)

Export samples (TSV)

=> Sample list (TSV file) exported by clicking this button is as below.

ProjectID	SampleID	SampleType	TaxonomyID	UnitCode	UnitCode	SampleName	ScientificName	CommonName	CollectionYear	CollectionMonth	CollectionDate	SamplingTime	SamplingDuration	WeatherStar	CollectionReference	CollectionOrder	CollectionArea	CollectionLatitude	CollectionLongitude	Sex	Tri	
1	PR4000002	SA4000087	ST004	34892	es-BANK	EW00884	Neophocaea Finless porpi		1996	4	18				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
2	PR4000002	SA4000088	ST004	34892	es-BANK	EW00812	Neophocaea Finless porpi		1999	7	19				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
3	PR4000002	SA4000089	ST004	34892	es-BANK	EW00873	Neophocaea Finless porpi		1995	5	21				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
4	PR4000002	SA4000090	ST004	34892	es-BANK	EW04187	Neophocaea Finless porpi		2000	9	29				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
5	PR4000002	SA4000091	ST004	34892	es-BANK	EW00867	Neophocaea Finless porpi		1998	5	7				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
6	PR4000002	SA4000092	ST004	34892	es-BANK	EW00910	Neophocaea Finless porpi		1997	9	8				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
7	PR4000002	SA4000093	ST004	34892	es-BANK	EW04190	Neophocaea Finless porpi		2001	2	3				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
8	PR4000002	SA4000094	ST004	34892	es-BANK	EW00903	Neophocaea Finless porpi		1997	2	28				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
9	PR4000002	SA4000095	ST004	34892	es-BANK	EW04006	Neophocaea Finless porpi		2001	8	14				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
10	PR4000002	SA4000096	ST004	34892	es-BANK	EW00911	Neophocaea Finless porpi		1998	1	13				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
11	PR4000002	SA4000097	ST004	34892	es-BANK	EW04103	Neophocaea Finless porpi		2000	10	19				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
12	PR4000002	SA4000098	ST004	34892	es-BANK	EW04595	Neophocaea Finless porpi		2000	5	18				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
13	PR4000002	SA4000099	ST004	34892	es-BANK	EW00931	Neophocaea Finless porpi		1996	4	30				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
14	PR4000002	SA4001000	ST004	34892	es-BANK	EW00878	Neophocaea Finless porpi		1995	7	17				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
15	PR4000002	SA4001001	ST004	34892	es-BANK	EW00929	Neophocaea Finless porpi		1998	9	12				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
16	PR4000002	SA4001002	ST004	34892	es-BANK	EW04908	Neophocaea Finless porpi		2002	6	8				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
17	PR4000002	SA4001003	ST004	34892	es-BANK	EW04883	Neophocaea Finless porpi		2003	6	11				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
18	PR4000002	SA4001004	ST004	34892	es-BANK	EW00934	Neophocaea Finless porpi		1996	2	18				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
19	PR4000002	SA4001005	ST004	34892	es-BANK	EW00894	Neophocaea Finless porpi		1996	5	23				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
20	PR4000002	SA4001006	ST004	34892	es-BANK	EW00909	Neophocaea Finless porpi		1997	9	8				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
21	PR4000002	SA4001007	ST004	34892	es-BANK	EW00916	Neophocaea Finless porpi		1998	7	25				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
22	PR4000002	SA4001008	ST004	34892	es-BANK	EW04788	Neophocaea Finless porpi		2000	9	29				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
23	PR4000002	SA4001009	ST004	34892	es-BANK	EW00921	Neophocaea Finless porpi		1998	12	12				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
24	PR4000002	SA4001010	ST004	34892	es-BANK	EW04688	Neophocaea Finless porpi		2002	4	12				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
25	PR4000002	SA4001011	ST004	34892	es-BANK	EW00893	Neophocaea Finless porpi		1996	5	23				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
26	PR4000002	SA4001012	ST004	34892	es-BANK	EW00916	Neophocaea Finless porpi		1998	7	25				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
27	PR4000002	SA4001013	ST004	34892	es-BANK	EW04896	Neophocaea Finless porpi		2003	5	2				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
28	PR4000002	SA4001014	ST004	34892	es-BANK	EW00895	Neophocaea Finless porpi		1996	6	25				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
29	PR4000002	SA4001015	ST004	34892	es-BANK	EW00885	Neophocaea Finless porpi		1996	5	13				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
30	PR4000002	SA4001016	ST004	34892	es-BANK	EW04866	Neophocaea Finless porpi		2003	4	21				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
31	PR4000002	SA4001017	ST004	34892	es-BANK	EW00925	Neophocaea Finless porpi		1999	2	15				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
32	PR4000002	SA4001018	ST004	34892	es-BANK	EW00925	Neophocaea Finless porpi		1995	6	25				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA
33	PR4000002	SA4001019	ST004	34892	es-BANK	EW00904	Neophocaea Finless porpi		1997	4	1				Asia	Japan	Seto Inland	33.6105556	33.91	131.195278	134.651389	LA



Show the measured data of query results

=> The measured data displayed on the screen is as below.

### MeasuredData

ProjectID: PRA000002  
 SampleID:   
 Sample Type: -  
 Scientific Name: -  
 Tissue / Organ: -  
 Keyword: Project title, Abstract

Chemical Groups: -  
 Chemical Name: -  
 Collection Region: -  
 Collection Country: -  
 Collection Year: XXXX - XXXX

Show  entries  
 Showing 1 to 50 of 946 entries

« 1 2 3 4 5 6 7 8 ... 18 19 »

ProjectID	SampleID	Sample	Chemical	ExperimentID	MeasuredValue	Unit	Remarks	RegisterDate
PRA000002	SAA000170	Neophocaena phocaenoides	ΣPTs	EXA000001	1.68E+1	ng/g wet		2016/7/04
PRA000002	SAA000170	Neophocaena phocaenoides	DPT	EXA000001	1.41E+0	ng/g wet		2016/7/04
PRA000002	SAA000170	Neophocaena phocaenoides	TPT	EXA000001	1.54E+1	ng/g wet		2016/7/04
PRA000002	SAA000170	Neophocaena phocaenoides	ΣBTs	EXA000001	2.02E+3	ng/g wet		2016/7/04
PRA000002	SAA000170	Neophocaena phocaenoides	MBT	EXA000001	1.10E+3	ng/g wet		2016/7/04
PRA000002	SAA000170	Neophocaena phocaenoides	DBT	EXA000001	7.20E+2	ng/g wet		2016/7/04
PRA000002	SAA000170	Neophocaena phocaenoides	TBT	EXA000001	2.00E+2	ng/g wet		2016/7/04
PRA000002	SAA000169	Neophocaena phocaenoides	Σoctyltins	EXA000001	-	ng/g wet		2016/7/04
PRA000002	SAA000169	Neophocaena phocaenoides	MOT	EXA000001	<6.00E-1	ng/g wet		2016/7/04

Export measured data (TSV)

=> Measured data list (TSV file) exported by clicking this button is as below.

measureddata\_20191021033602.tsv

ホーム 挿入 ページレイアウト 数式 データ 校閲 表示

MS Pゴシック 12

標準

セルを結合して中央揃え

A1 MeasuredID

MeasuredID	ProjectID	SampleID	ScientificNa	ChemicalID	ChemicalNa	ExperimentID	MeasuredVa	AlternativeC	Unit	Remarks	RegisterDat	UpdateDate
80	PRA000002	SAA000087	Neophocaen	CH0000154	TBT	EXA000001	170		ng/g wet		2016/7/4	2016/8/8
81	PRA000002	SAA000087	Neophocaen	CH0000155	DBT	EXA000001	220.3591		ng/g wet		2016/7/4	2016/8/8
82	PRA000002	SAA000087	Neophocaen	CH0000156	MBT	EXA000001	44.5445		ng/g wet		2016/7/4	2016/8/8
83	PRA000002	SAA000087	Neophocaen	CH0000157	ΣBTs	EXA000001	434.9036		ng/g wet		2016/7/4	2016/8/8
84	PRA000002	SAA000087	Neophocaen	CH0000158	TPT	EXA000001	12.922		ng/g wet		2016/7/4	2016/8/8
85	PRA000002	SAA000087	Neophocaen	CH0000159	DPT	EXA000001	0.395		ng/g wet		2016/7/4	2016/8/8
86	PRA000002	SAA000087	Neophocaen	CH0000160	ΣPTs	EXA000001	13.317		ng/g wet		2016/7/4	2016/8/8
87	PRA000002	SAA000087	Neophocaen	CH0000161	TOT	EXA000001	0.6	<6.00E-1	ng/g wet		2016/7/4	2018/6/13
88	PRA000002	SAA000087	Neophocaen	CH0000162	DOT	EXA000001	1.7	<1.70E+0	ng/g wet		2016/7/4	2018/6/13
89	PRA000002	SAA000087	Neophocaen	CH0000163	MOT	EXA000001	1.5092		ng/g wet		2016/7/4	2016/8/8
90	PRA000002	SAA000087	Neophocaen	CH0000164	Σ octyltins	EXA000001	1.5		ng/g wet		2016/7/4	2016/8/8
91	PRA000002	SAA000088	Neophocaen	CH0000154	TBT	EXA000001	61.2117		ng/g wet		2016/7/4	2016/8/8
92	PRA000002	SAA000088	Neophocaen	CH0000155	DBT	EXA000001	120		ng/g wet		2016/7/4	2016/8/8
93	PRA000002	SAA000088	Neophocaen	CH0000156	MBT	EXA000001	7.2268		ng/g wet		2016/7/4	2016/8/8
94	PRA000002	SAA000088	Neophocaen	CH0000157	ΣBTs	EXA000001	188.4385		ng/g wet		2016/7/4	2016/8/8
95	PRA000002	SAA000088	Neophocaen	CH0000158	TPT	EXA000001	8.099		ng/g wet		2016/7/4	2016/8/8
96	PRA000002	SAA000088	Neophocaen	CH0000159	DPT	EXA000001	0.632		ng/g wet		2016/7/4	2016/8/8
97	PRA000002	SAA000088	Neophocaen	CH0000160	ΣPTs	EXA000001	8.731		ng/g wet		2016/7/4	2016/8/8
98	PRA000002	SAA000088	Neophocaen	CH0000161	TOT	EXA000001	0.6	<6.00E-1	ng/g wet		2016/7/4	2018/6/13
99	PRA000002	SAA000088	Neophocaen	CH0000162	DOT	EXA000001	1.7	<1.70E+0	ng/g wet		2016/7/4	2018/6/13

## 5. Chemical Search

<Chemical Search Top>

### Chemicals

**ChemicalID**   
**Chemical Groups**   
**Chemical**   
**CAS RN®**

Show  entries  
Showing 1 to 50 of 1170 entries

ChemicalID <small>⌵</small>	ChemGroup <small>⌵</small>	ChemicalName <small>⌵</small>	IUPAC <small>⌵</small>	PubChem <small>⌵</small>	CAS RN® <small>⌵</small>	Synonyms <small>⌵</small>	Samples
CH0000001	Organochlorines Dioxins PCDDs	2,3,7,8-TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin	15625	1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin, TCDD, Dioxin	<a href="#">Samples</a>
CH0000002	Organochlorines Dioxins PCDDs	1,2,3,7,8-PentaCDD	1,2,3,7,8-pentachlorodibenzo-p-dioxin	38439	40321-76-4	1,2,3,7,8-pentachlorodibenzo-p-dioxin, PeCDD	<a href="#">Samples</a>

### 5 – 1. Search Parameters

Chemical ID	ID which ChemTHEATRE assigns to a chemical
Chemical Group	Select a chemical group from the pull-down menu (e.g.) Organochlorines-Dioxins
Chemical	Search with keywords such as chemical names, IUPAC
CAS RN®	Search with CAS Registry Number®



Input parameters and click . The list of the requested data will appear on the screen.

### 5 – 2. Chemicals Summary

Chemical ID	ID which ChemTHEATRE assigns to a chemical →Click the ID to show the Chemical Details. (p.16)
Chemical Group	Chemical group which the chemical is categorized into
Chemical Name	Chemical name
IUPAC	IUPAC name of the chemical
PubChem	PubChem CID and the link to PubChem Compound records
CAS RN®	CAS registry number®
Synonyms	Common names, other names of the chemical
Samples	Click <a href="#">Samples</a> to show the list of Sample IDs used to measure the chemical

## 5 – 3. Chemical Details

**Chemical**

ChemicalID	CH0000001	Projects	<ul style="list-style-type: none"> <li>• PRA000004</li> <li>• PRA000005</li> <li>• PRA000021</li> <li>• PRA000024</li> <li>• PRA000038</li> <li>• PRA000058</li> <li>• PRA000059</li> <li>• PRA000069</li> <li>• PRA000070</li> <li>• PRA000071</li> <li>• PRA000081</li> <li>• PRA000086</li> </ul>
ChemGroup	Organochlorines Dioxins PCDDs	Samples	<ul style="list-style-type: none"> <li>Nyctereutes procyonoides +</li> <li>Apodemus speciosus +</li> <li>Mogera imaizumii +</li> <li>Phoebastria albatrus +</li> </ul>
Chemical Name	2,3,7,8-TCDD		
IUPAC	2,3,7,8-tetrachlorodibenzo-p-dioxin		
Synonyms	2,3,7,8-Tetrachlorodibenzo-p-dioxin, TCDD, Dioxin		
PubChem	15625		
CAS RN ®	1746-01-6		
Remarks	<a href="#">Link to Webkis-plus;</a>		
RegisterDate	2016/8/18		
UpdateDate	2016/8/26		

Click “+”  
↓  
Expand  
↓  
Sample IDs  
are displayed  
(See p.7)

Chemical ID	ID which ChemTHEATRE assigns to a chemical
ChemGroup	Chemical group which the chemical is categorized into
Chemical Name	Chemical name
IUPAC	IUPAC name of the chemical
Synonyms	Common names, other names of the chemical
PubChem	PubChem CID and the link to PubChem Compound records
CAS RN®	CAS registry number®
Remarks	Remarks, link to Webkis-Plus
Register Date	Date of registration to ChemTHEATRE
Update Date	Date last modified

Projects	Project IDs in which the chemical was measured →Click the ID to show the Project details (p.6)
Samples	Sample types used to measure the chemical →Expand to show the sample IDs. →Click the ID to show the Sample Details (p.10)

## 6. Measured Data (Chemical concentration)

<Measured Data Top>

### MeasuredData

ProjectID

SampleID

Sample Type

Scientific Name

Tissue / Organ

Keyword

Chemical Groups

Chemical Name

Collection Region

Collection Country

Collection Year  -

Export samples (TSV)

Export measured data (TSV)

Show  entries  
Showing 1 to 50 of 85947 entries

...

ProjectID	SampleID	Sample	Chemical	ExperimentID	MeasuredValue	Unit	Remarks	RegisterDate
PRA000098	SAA006432	Air	Alcohol ethoxylate C15EO15	EXA000001	<1.20E-3	µg/L	Quantified using C12EO15 as Standard	2019/10/18
PRA000098	SAA006350	Water	Alcohol ethoxylate C15EO15	EXA000001	<1.20E-3	µg/L	Quantified using C12EO15 as Standard	2019/10/18

Click to export (See p.13-14)

### 6 – 1. Search Parameters

See 3 – 1. (p.4)

### 6 – 2. Measured Data Summary

Project ID	ID which ChemTHEATRE assigns to a project →Click the ID to show the Project Details (p.6)
Sample ID	ID which ChemTHEATRE assigns to a sample used in the project →Click the ID to show the Sample Details (p.10)
Sample	Sample types are shown. (Mammal, Bird, Water, Sediment, etc.)
Chemical	Chemical name which is measured →Click the name to show the Chemical Details (p.16)
Experiment ID	Experiment ID which is assigned by ChemTHEATRE
Measured Value	Measured value (chemical concentration)
Unit	Unit (µg/L, ng/g, etc.)
Remarks	Remarks (additional information, etc.)
Register Date	Date of registration to ChemTHEATRE

### 6 – 3. How to export the data you need (See 4-4. (p.13-14))

Export samples (TSV)	Click this button to export the sample list, after narrowing down the samples to ones you need (Tab-separated format) → See p.13
Export measured data (TSV)	Click this button to export the measured data list, after narrowing down the data to ones you need. (Tab-separated format) → See p.14


## 7. Ecological Risk Assessment using ChemTHEATRE

~Example for carrying out the risk assessment~

This is an example of step by step procedure to do the risk assessment using ChemTHEATRE.



### 7-1. How to find and export the measured data you need in ChemTHEATRE

< Narrow down the data by Chemical => Sample type >

① Firstly, select “Perfluoroalkyl and Polyfluoroalkyl substances – PFCAs” from pull-down menu in Chemical Group column. Then, click . Chemicals categorized into PFCAs are shown on the screen as below.

Chemicals


ChemicalID: CH0000000  
Chemical Groups: Perfluoroalkyl and polyfluoroalkyl substances - PFCAs  
Chemical: Chemical Name, IUPAC, Synonyms  
CAS RN: CAS

Show 50 entries  
Showing 1 to 16 of 16 entries

ChemicalID	ChemGroup	ChemicalName	IUPAC	PubChem	CAS RN	Synonyms	Samples
CH0000368	Perfluoroalkyl and polyfluoroalkyl substances PFCAs	PFBA	2,2,3,3,4,4,4-heptafluorobutanoic acid	9777	375-22-4	Perfluorobutyric acid	<a href="#">Samples</a>
CH0000369	Perfluoroalkyl and polyfluoroalkyl substances PFCAs	PFPA	2,2,3,3,4,4,5,5,5-nonafluoropentanoic acid	75921	2706-90-3	PFPeA, Perfluoropentanoic acid	<a href="#">Samples</a>
CH0000370	Perfluoroalkyl and polyfluoroalkyl substances PFCAs	PFHxA	2,2,3,3,4,4,5,5,6,6,6-undecafluorohexanoic acid	67542	307-24-4	Perfluorohexanoic acid	<a href="#">Samples</a>
CH0000371	Perfluoroalkyl and polyfluoroalkyl substances PFCAs	PFHpA	2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptanoic acid	67818	375-85-9	Perfluoroheptanoic acid	<a href="#">Samples</a>
CH0000372	Perfluoroalkyl and polyfluoroalkyl substances PFCAs	PFOA	2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoic acid	9554	335-67-1	Perfluorooctanoic acid	<a href="#">Samples</a>
CH0000373	Perfluoroalkyl and polyfluoroalkyl substances PFCAs	PFNA	2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid	67821	375-95-1	Perfluorononanoic acid	<a href="#">Samples</a>



② Find “PFOA” and click its [Samples](#) to get the list of samples which are used to measure PFOA.

③ Select “Abiotic-Water” from the pull-down menu in Sample Type and click .

Samples

ProjectID:   
Sample Type: **Abiotic - Water**  
Scientific Name: -  
Tissue / Organ: -  
Keyword: Project title, Abstract

Chemical Groups: Perfluoroalkyl and polyfluoroalkyl substances - PFCAs  
Chemical Name: PFOA  
Collection Region: -  
Collection Country: -  
Collection Year: XXXX - XXXX





 

Show Map

Export samples (TSV) **Show the measured data of query results** Export measured data (TSV)

Show 50 entries  
Showing 1 to 50 of 314 entries

« 1 2 3 4 5 6 7 »

ProjectID	SampleID	SampleType	SampleName	Tissue	Collection Country	Collection Year	Chemicals	Measured Data
PRA000076	SAA004234	Surface water	Water - River water		Japan	2016	Organochlorines Flame retardants Perfluoroalkyl and polyfluoroalkyl substances	
PRA000076	SAA004233	Surface water	Water - River water		Japan	2016	Organochlorines Flame retardants Perfluoroalkyl and polyfluoroalkyl substances	
PRA000076	SAA004232	Surface water	Water - River water		Japan	2016	Organochlorines Flame retardants Perfluoroalkyl and polyfluoroalkyl substances	
PRA000076	SAA004231	Surface water	Water - River water		Japan	2016	Organochlorines Flame retardants Perfluoroalkyl and polyfluoroalkyl substances	

④ Click Show the measured data of query results in the above page, and the list of measured data are shown as below. The same measurement unit “ $\mu\text{g/L}$ ” is used for water.

The screenshot shows the 'MeasuredData' web interface. On the left, there are search filters for ProjectID, SampleID, Sample Type (set to 'Abiotic - Water'), Scientific Name, Tissue / Organ, and Keyword. On the right, there are filters for Chemical Groups (set to 'Perfluoroalkyl and polyfluoroalkyl substances - PFCA'), Chemical Name (set to 'PFOA'), Collection Region, Collection Country, and Collection Year (set to 'XXXX - XXXX'). A 'Search' button is present. Below the filters, there are two buttons: 'Export samples (TSV)' and 'Export measured data (TSV)', with the latter circled in red. Below these buttons, it says 'Show 50 entries' and 'Showing 1 to 50 of 218 entries'. A pagination bar shows page 1 of 5. The main part of the page is a table with the following columns: ProjectID, SampleID, Sample, Chemical, ExperimentID, MeasuredValue, Unit, Remarks, and RegisterDate. The table contains 7 rows of data for PFOA in water samples, with measured values ranging from 1.00E-3 to 7.60E-4  $\mu\text{g/L}$ .

ProjectID	SampleID	Sample	Chemical	ExperimentID	MeasuredValue	Unit	Remarks	RegisterDate
PRA000076	SAA004234	Water	PFOA	EXA000001	3.40E-4	$\mu\text{g/L}$		2018/10/05
PRA000076	SAA004233	Water	PFOA	EXA000001	4.00E-4	$\mu\text{g/L}$		2018/10/05
PRA000076	SAA004232	Water	PFOA	EXA000001	5.60E-4	$\mu\text{g/L}$		2018/10/05
PRA000076	SAA004231	Water	PFOA	EXA000001	7.60E-4	$\mu\text{g/L}$		2018/10/05
PRA000076	SAA004230	Water	PFOA	EXA000001	1.40E-3	$\mu\text{g/L}$		2018/10/05
PRA000076	SAA004229	Water	PFOA	EXA000001	3.10E-3	$\mu\text{g/L}$		2018/10/05
PRA000076	SAA004163	Water	PFOA	EXA000001	1.00E-3	$\mu\text{g/L}$		2018/10/05

⑤ Click Export measured data (TSV) in the above page, and you can download the list of measured data of the chemical.

⑥ Open the downloaded file in MS excel, and the list below comes up.

The screenshot shows an Excel spreadsheet titled 'measureddata\_20190128101828'. The spreadsheet contains a table with the following columns: MeasuredID, ProjectID, SampleID, ScientificName, ChemicalID, ChemicalName, ExperimentID, MeasuredValue, AlternativeData, Unit, Remarks, RegisterDate, and UpdateDate. The table contains 24 rows of data for PFOA in water samples, with measured values ranging from 0.002913 to 0.004712871  $\mu\text{g/L}$ .

MeasuredID	ProjectID	SampleID	ScientificName	ChemicalID	ChemicalName	ExperimentID	MeasuredValue	AlternativeData	Unit	Remarks	RegisterDate	UpdateDate
10837	PRA000015	SAA000492	Water	CH0000372	PFOA	EXA000001	0.004712871		$\mu\text{g/L}$		2016/11/25	2018/6/8
10850	PRA000015	SAA000493	Water	CH0000372	PFOA	EXA000001	0.004524211		$\mu\text{g/L}$		2016/11/25	2018/6/8
10863	PRA000015	SAA000494	Water	CH0000372	PFOA	EXA000001	0.003318447		$\mu\text{g/L}$		2016/11/25	2018/6/8
10876	PRA000015	SAA000495	Water	CH0000372	PFOA	EXA000001	0.002531313		$\mu\text{g/L}$		2016/11/25	2018/6/8
10889	PRA000015	SAA000496	Water	CH0000372	PFOA	EXA000001	0.005636		$\mu\text{g/L}$		2016/11/25	2018/6/8
10902	PRA000015	SAA000497	Water	CH0000372	PFOA	EXA000001	0.00427		$\mu\text{g/L}$		2016/11/25	2018/6/8
10915	PRA000015	SAA000498	Water	CH0000372	PFOA	EXA000001	0.003063366		$\mu\text{g/L}$		2016/11/25	2018/6/8
10928	PRA000015	SAA000499	Water	CH0000372	PFOA	EXA000001	0.033494		$\mu\text{g/L}$		2016/11/25	2018/6/8
10941	PRA000015	SAA000500	Water	CH0000372	PFOA	EXA000001	0.034767647		$\mu\text{g/L}$		2016/11/25	2018/6/8
10954	PRA000015	SAA000501	Water	CH0000372	PFOA	EXA000001	0.031275		$\mu\text{g/L}$		2016/11/25	2018/6/8
10967	PRA000015	SAA000502	Water	CH0000372	PFOA	EXA000001	0.006111111		$\mu\text{g/L}$		2016/11/25	2018/6/8
10980	PRA000015	SAA000503	Water	CH0000372	PFOA	EXA000001	0.015997087		$\mu\text{g/L}$		2016/11/25	2018/6/8
10993	PRA000015	SAA000504	Water	CH0000372	PFOA	EXA000001	0.01304		$\mu\text{g/L}$		2016/11/25	2018/6/8
11006	PRA000015	SAA000505	Water	CH0000372	PFOA	EXA000001	0.015504		$\mu\text{g/L}$		2016/11/25	2018/6/8
11019	PRA000015	SAA000506	Water	CH0000372	PFOA	EXA000001	0.010092157		$\mu\text{g/L}$		2016/11/25	2018/6/8
11032	PRA000015	SAA000507	Water	CH0000372	PFOA	EXA000001	0.003322772		$\mu\text{g/L}$		2016/11/25	2018/6/8
11045	PRA000015	SAA000508	Water	CH0000372	PFOA	EXA000001	0.007173267		$\mu\text{g/L}$		2016/11/25	2018/6/8
11058	PRA000015	SAA000509	Water	CH0000372	PFOA	EXA000001	0.004143137		$\mu\text{g/L}$		2016/11/25	2018/6/8
11071	PRA000015	SAA000510	Water	CH0000372	PFOA	EXA000001	0.003010577		$\mu\text{g/L}$		2016/11/25	2018/6/8
11084	PRA000015	SAA000511	Water	CH0000372	PFOA	EXA000001	0.002957692		$\mu\text{g/L}$		2016/11/25	2018/6/8
11097	PRA000015	SAA000512	Water	CH0000372	PFOA	EXA000001	0.0014	<1.40E-3	$\mu\text{g/L}$		2016/11/25	2018/6/13
11110	PRA000015	SAA000513	Water	CH0000372	PFOA	EXA000001	0.00356		$\mu\text{g/L}$		2016/11/25	2018/6/8
11123	PRA000015	SAA000514	Water	CH0000372	PFOA	EXA000001	0.002913		$\mu\text{g/L}$		2016/11/25	2018/6/8

⑦ Save only Data ID (e.g. MeasuredID or SampleID) and MeasuredValue as TSV file. This file is read in AIST-MeRAM for exposure assessment and risk assessment.

The screenshot shows a spreadsheet application window titled "POFA\_test". The interface includes a ribbon with tabs for "ホーム", "挿入", "ページレイアウト", "数式", "データ", "校閲", and "表示". The ribbon contains various icons for text formatting (font face, size, bold, italic, underline, color), alignment, and other functions. The spreadsheet grid shows a table with the following data:

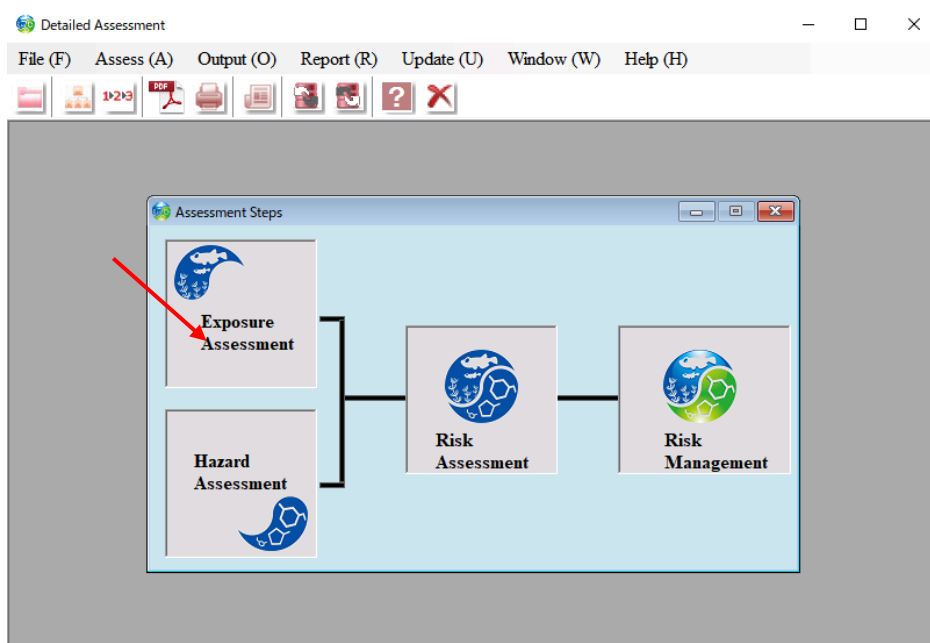
	A	B	C	D	E	F	G	H	I	J
1	SampleID	MeasuredValue								
2	SAA000492	0.004712871								
3	SAA000493	0.004524211								
4	SAA000494	0.003318447								
5	SAA000495	0.002531313								
6	SAA000496	0.005636								
7	SAA000497	0.00427								
8	SAA000498	0.003063366								
9	SAA000499	0.033494								
10	SAA000500	0.034767647								
11	SAA000501	0.031275								
12	SAA000502	0.006111111								
13	SAA000503	0.015997087								
14	SAA000504	0.01304								
15	SAA000505	0.015504								
16	SAA000506	0.010092157								
17	SAA000507	0.003322772								
18	SAA000508	0.007173267								
19	SAA000509	0.004143137								
20	SAA000510	0.003010577								
21	SAA000511	0.002957692								

## 7-2. How to import and use the data from ChemTHEATRE in AIST-MeRAM

AIST-MeRAM (AIST-Multi-purpose Ecological Risk Assessment and Management Tool) was developed by National Institute of Advanced Industrial Science and Technology (AIST). It is a free, quasi-artificial intelligence system for ecological risk assessment and management of chemicals substances. For details: <https://en-meram.aist-riss.jp>

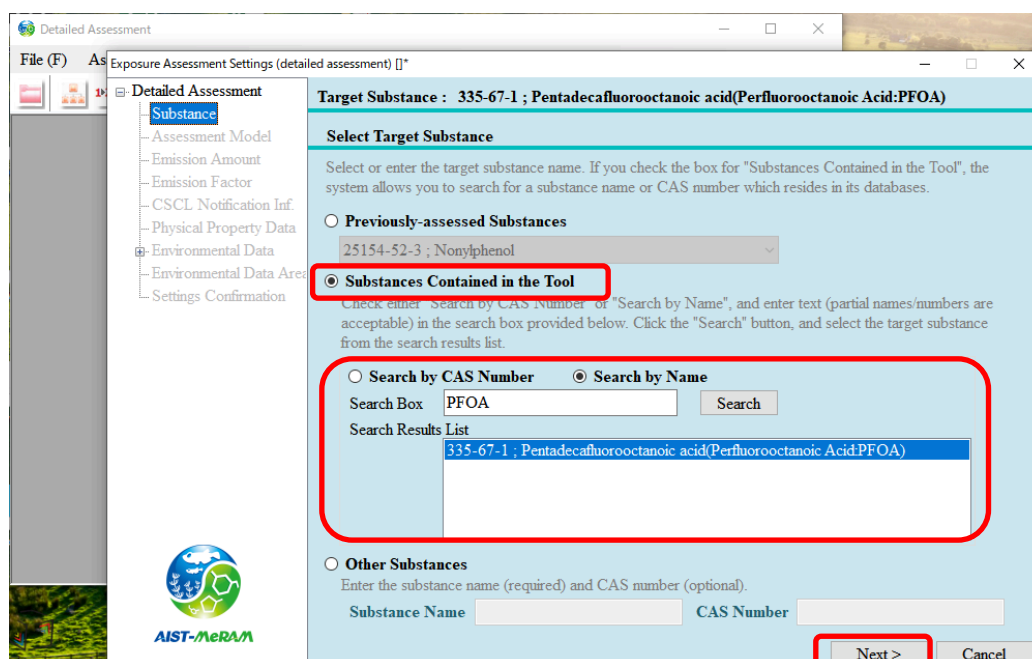
### 7-2-1. Exposure assessment

① Activate AIST-MeRAM and click “Detailed Evaluation,” then the page below comes up. Click “Exposure assessment.”



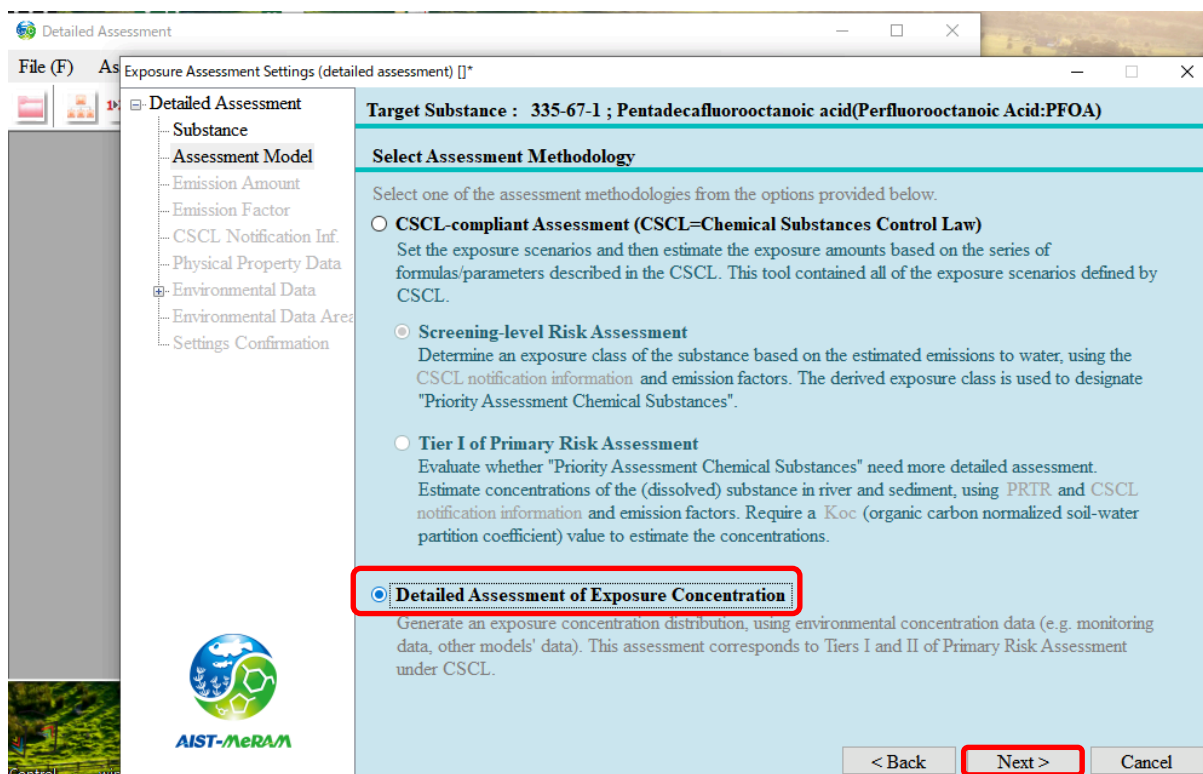
② Select a chemical you want to assess.

You can search the chemical you want to assess with CAS registry number® or chemical name. After choosing PFOA as the target chemical, click “Next.”

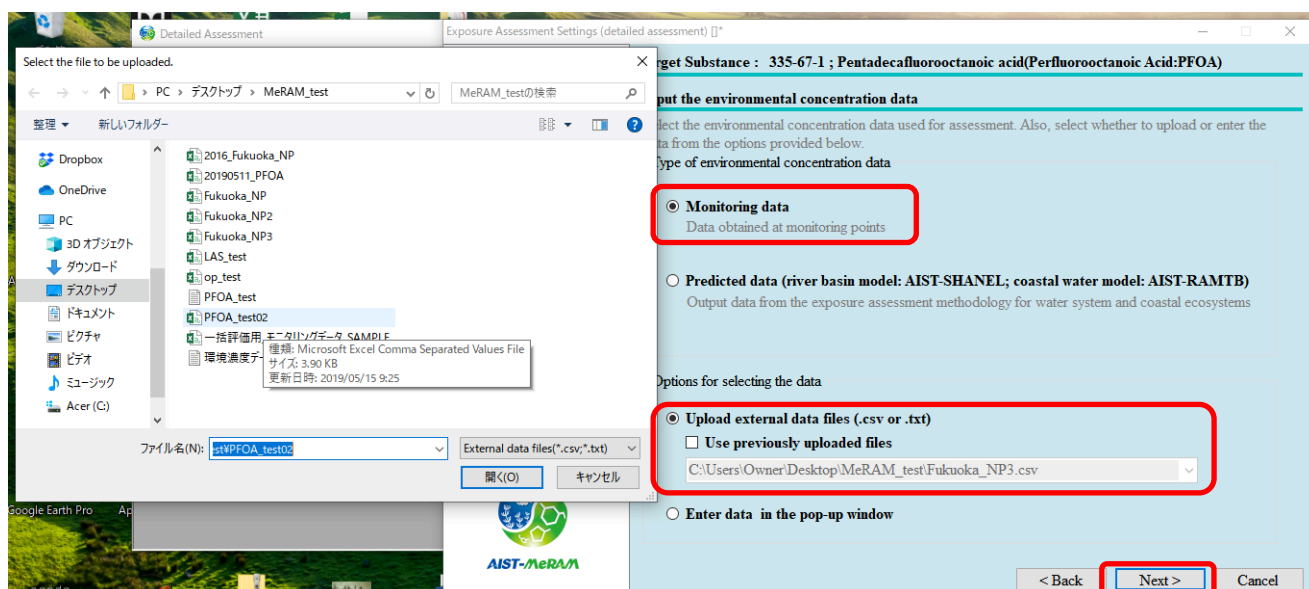




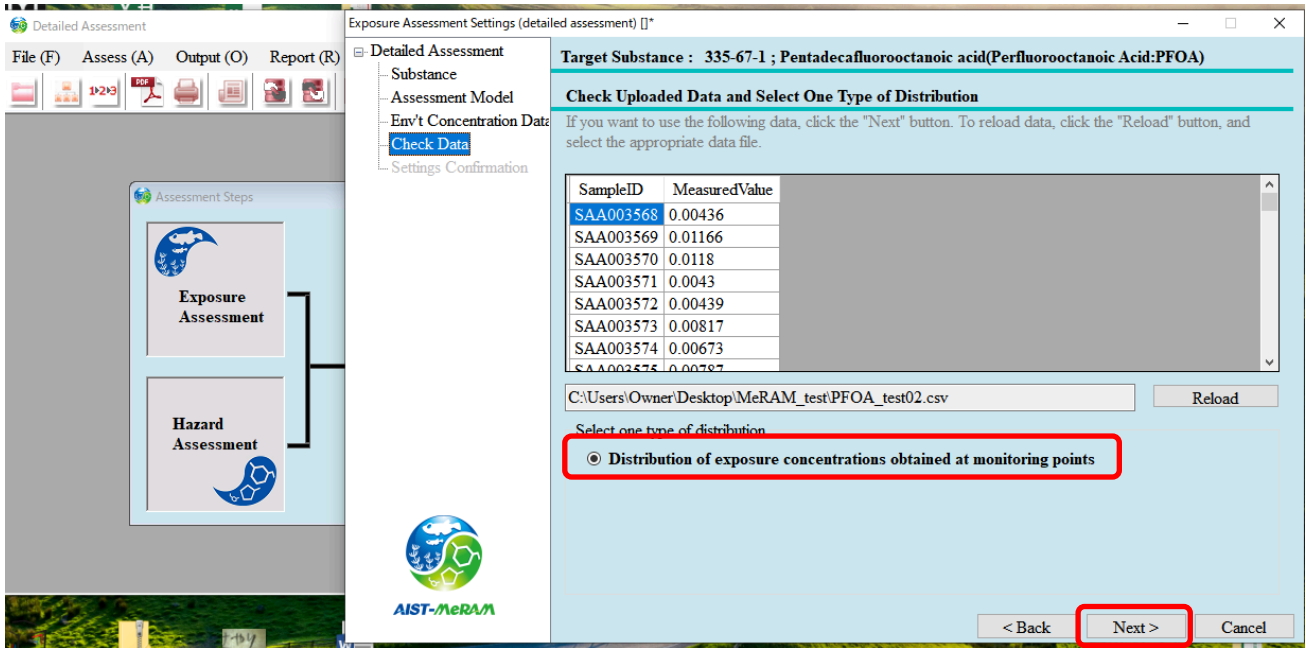
③ Select “Detailed assessment method of exposure concentration” and move to the next page.



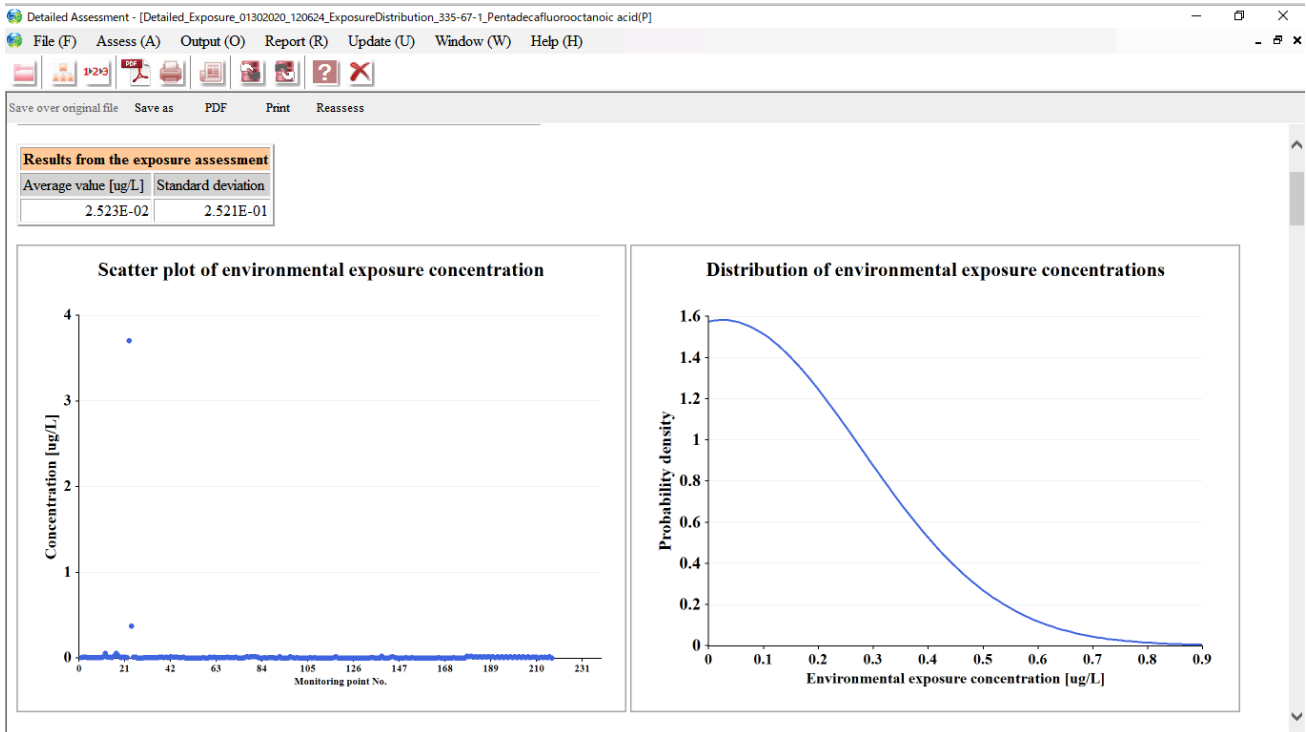
④ Select “Monitoring data” => “Upload external data files” =>select the TSV file exported from ChemTHEATRE (See page 20), then import it.



⑤ Once the TSV file is successfully imported, the following screen is displayed. After that, follow the directions and proceed with the exposure assessment.



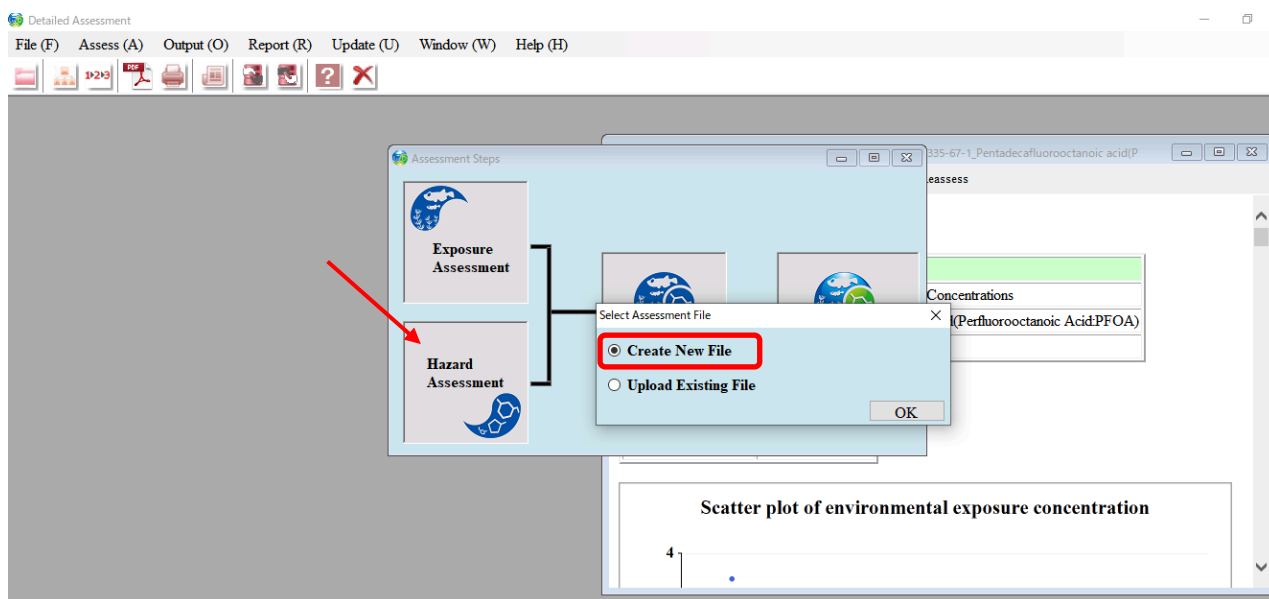
⑥ The result of exposure assessment is successfully displayed as below. You can download and save the result as PDF file.



⑦ Keep it open and move to “Hazard assessment.”

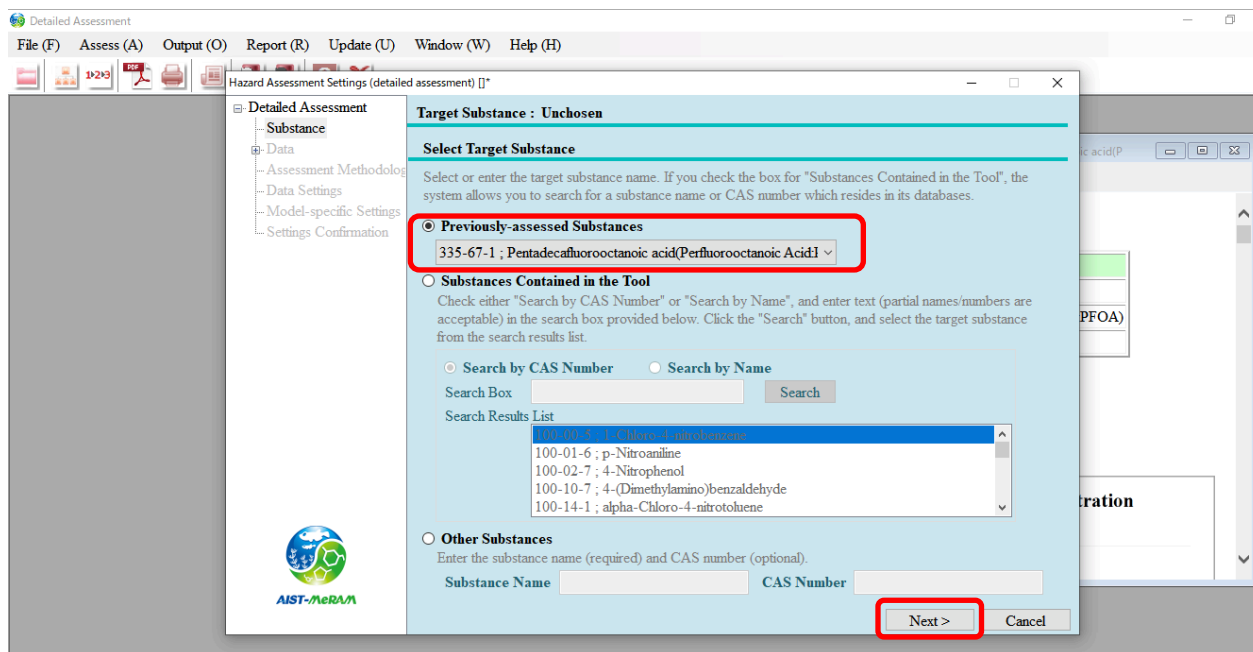
## 7-2-2. Hazard assessment

① Select “Hazard assessment” at the page below.

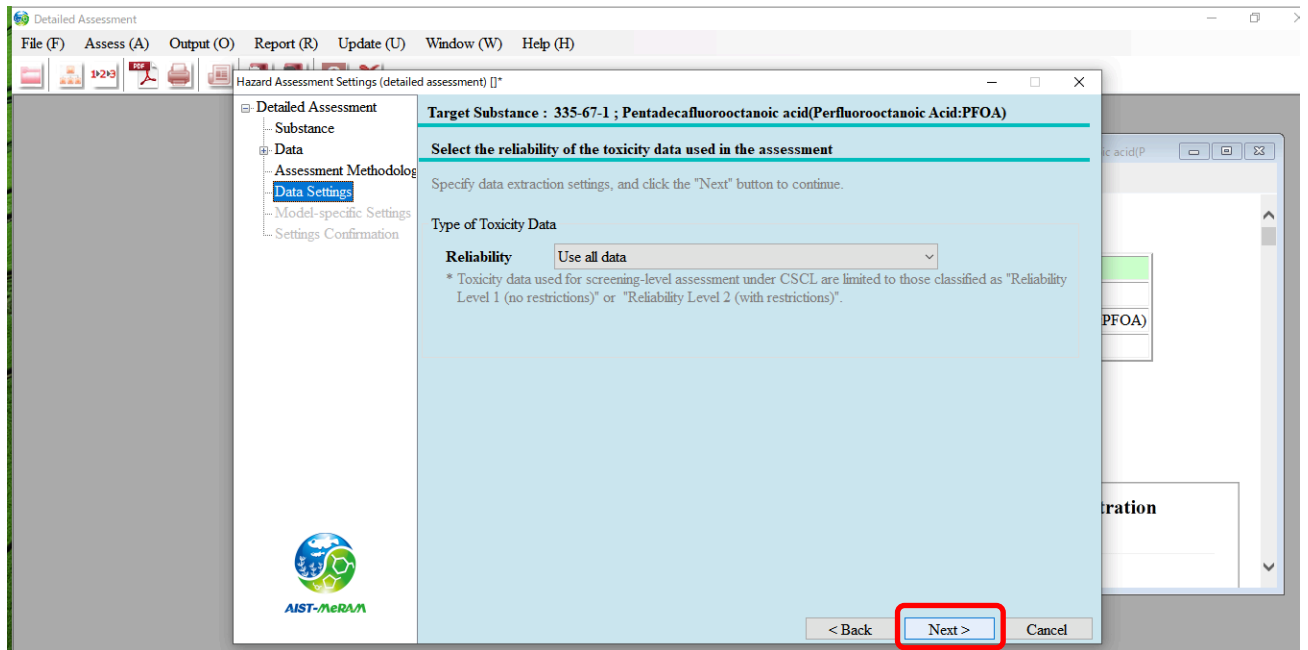
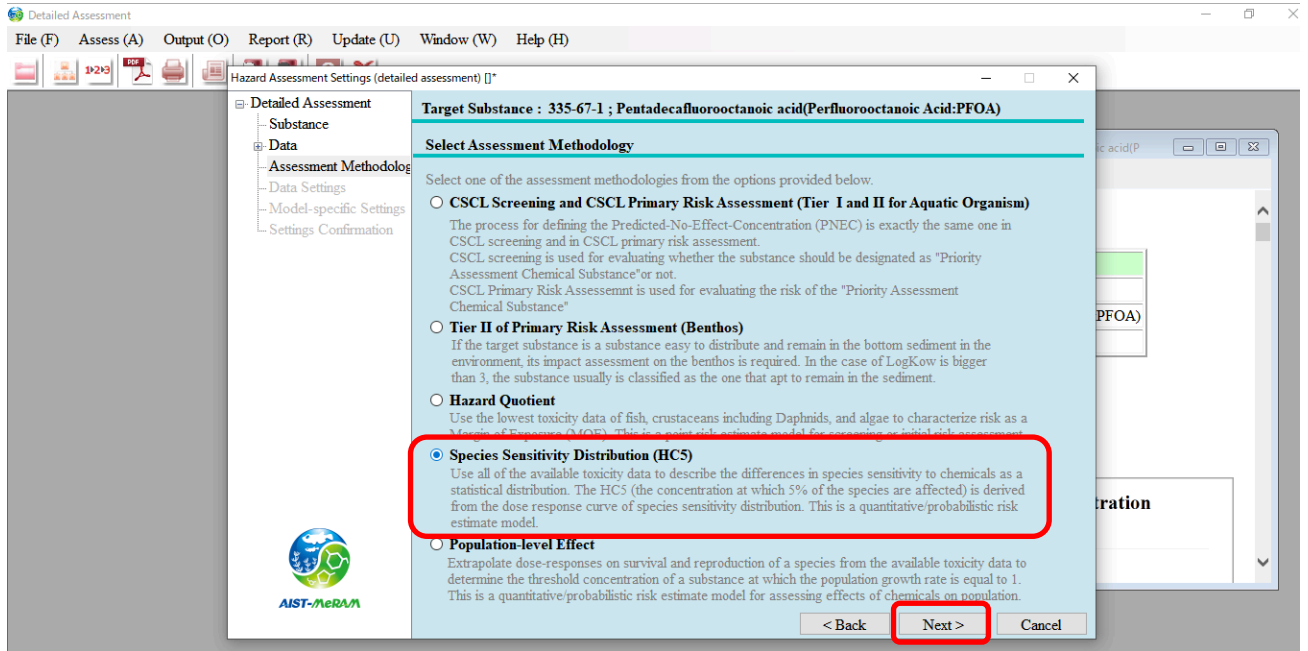


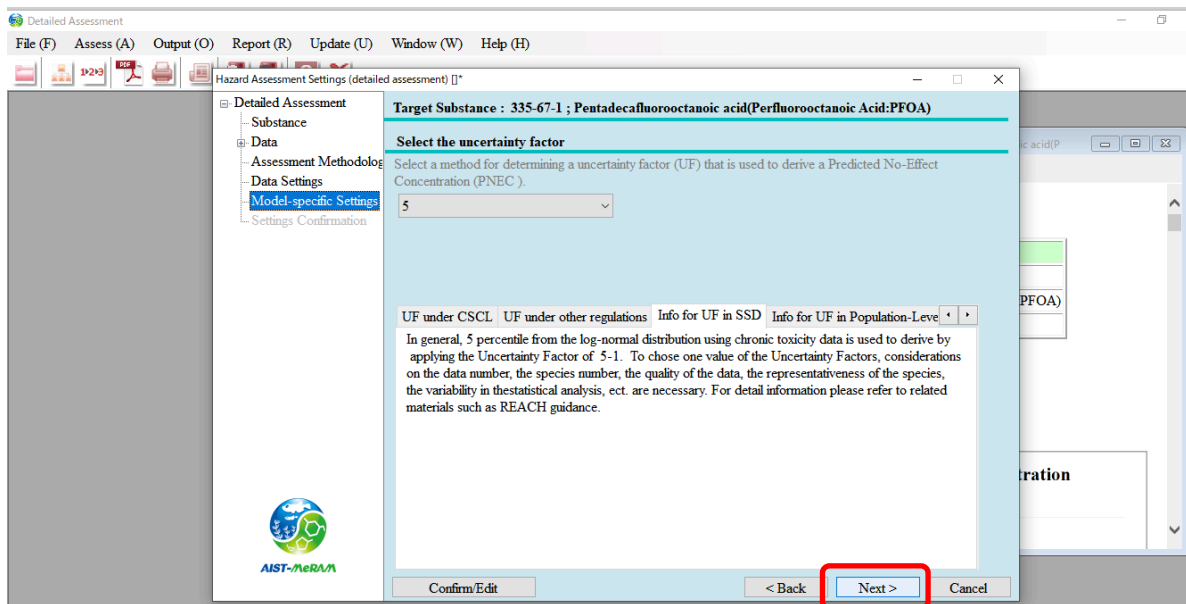
② Select a chemical you want to assess.

After selecting PFOA as the target chemical, click “Next.”

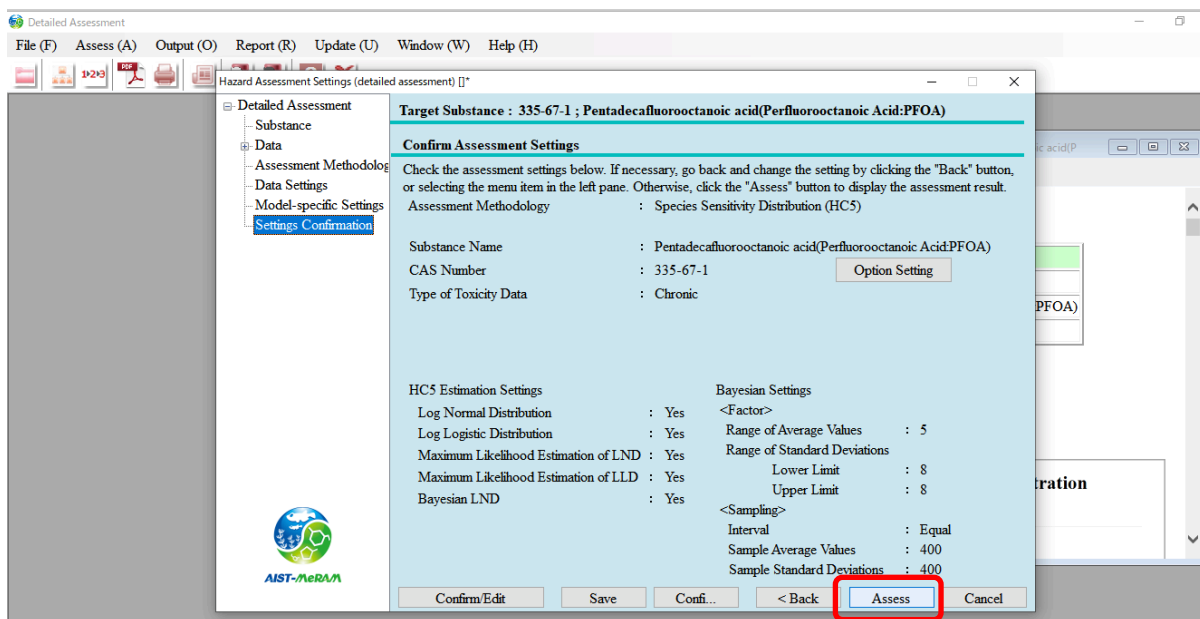


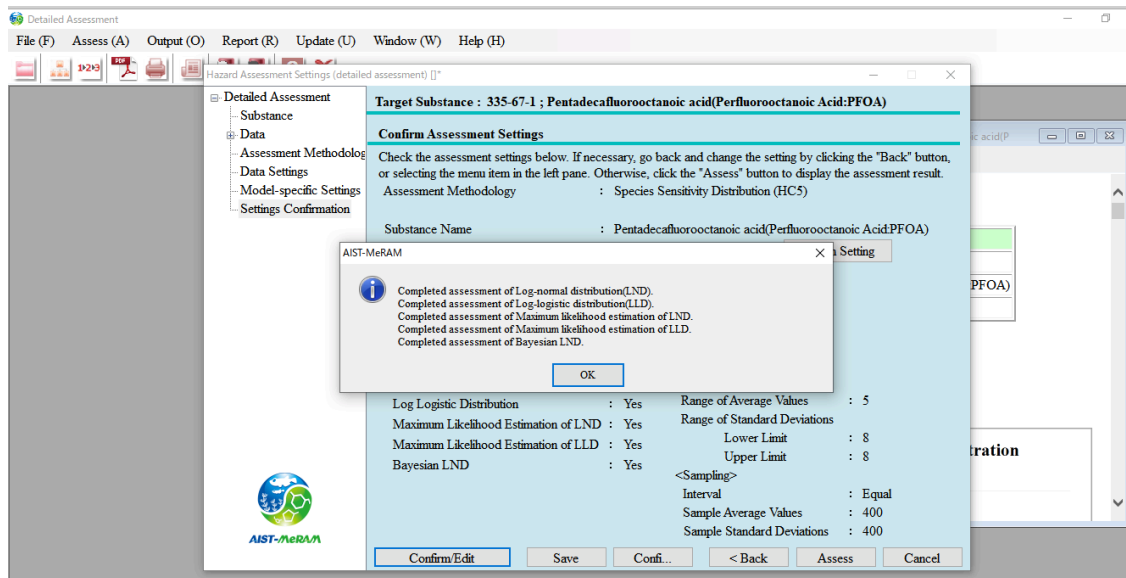
- ③ Select an assessment methodology and proceed with the hazard assessment. Select “Species Sensitivity Distribution” here.





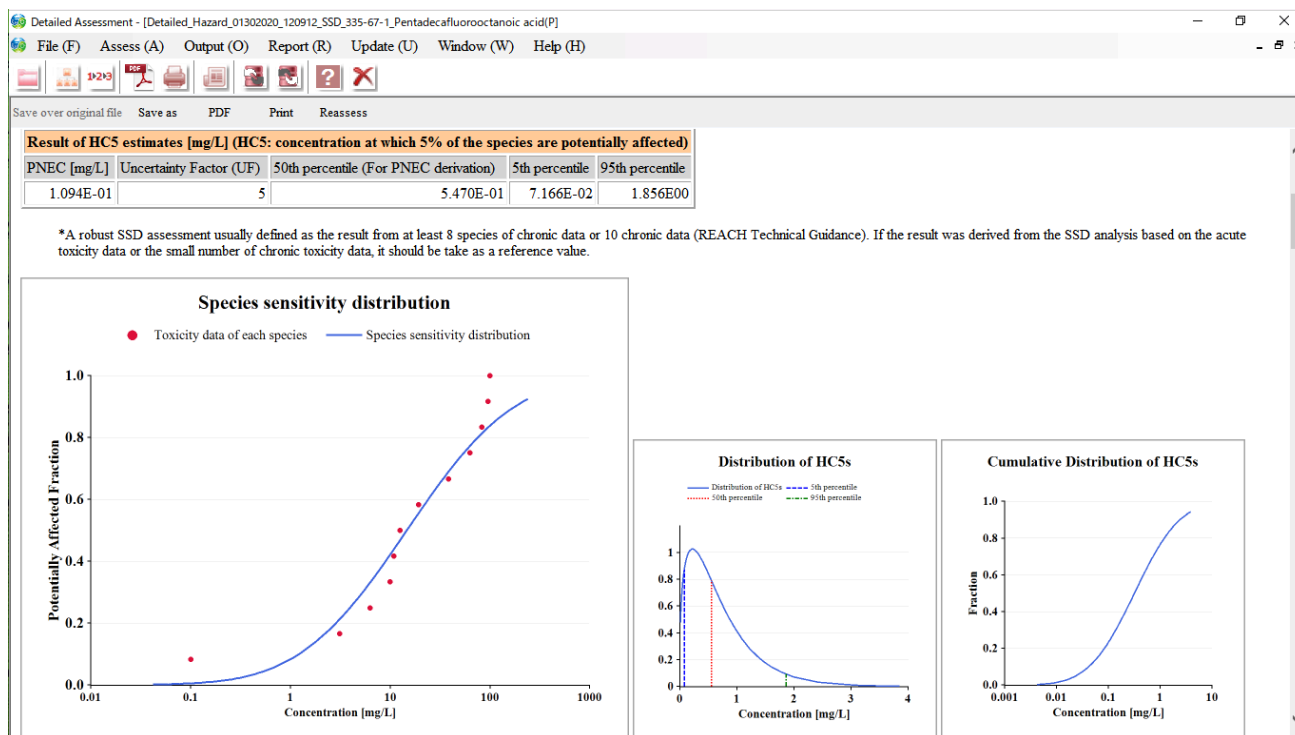
④ Click “Assess”





⑤ The results of hazard assessment is displayed as below.

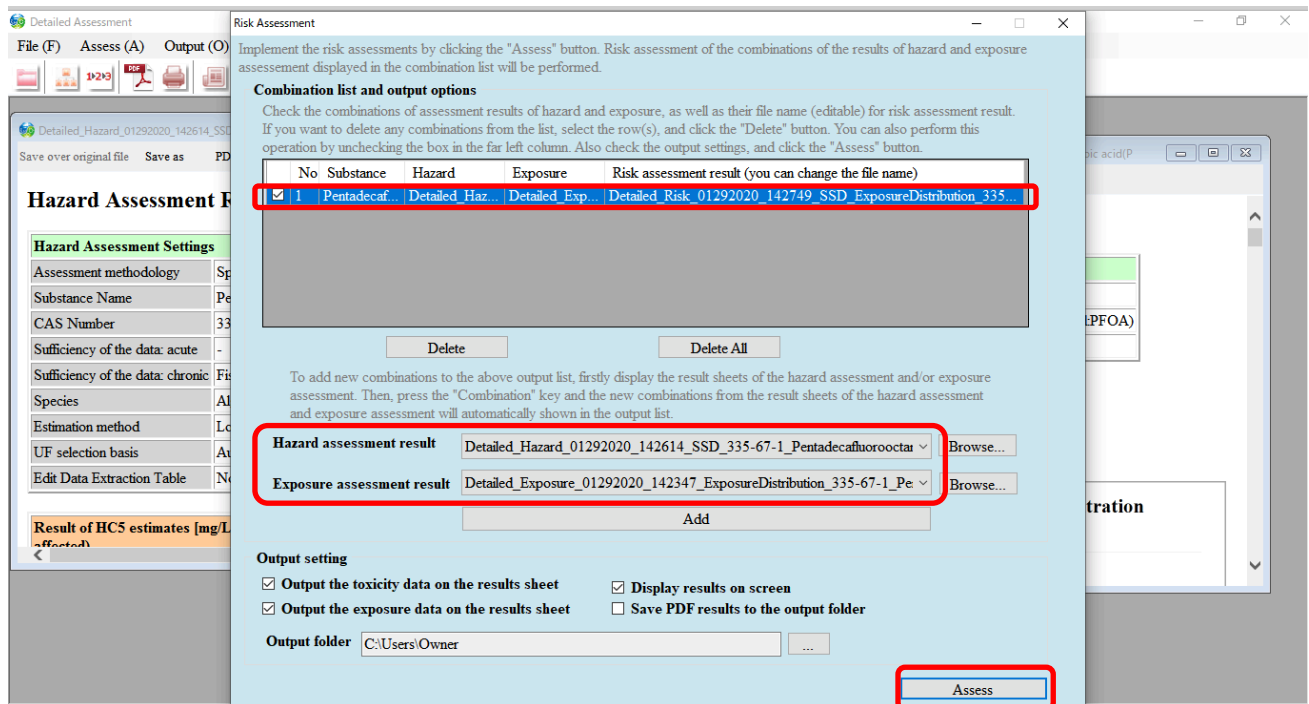
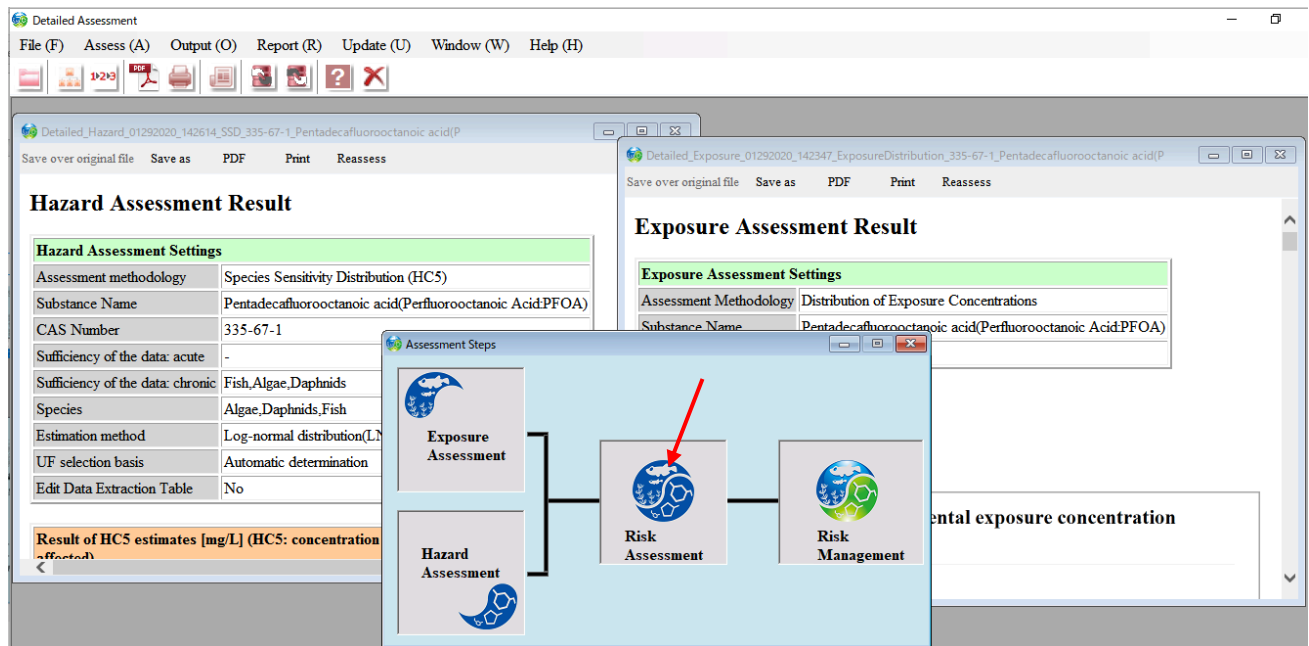
This is an example of the results: The result of Species Sensitivity Distribution (SSD).



⑥ Keep it open, too. With the above two results: the result of exposure assessment and the result of hazard assessment, proceed with the risk assessment.

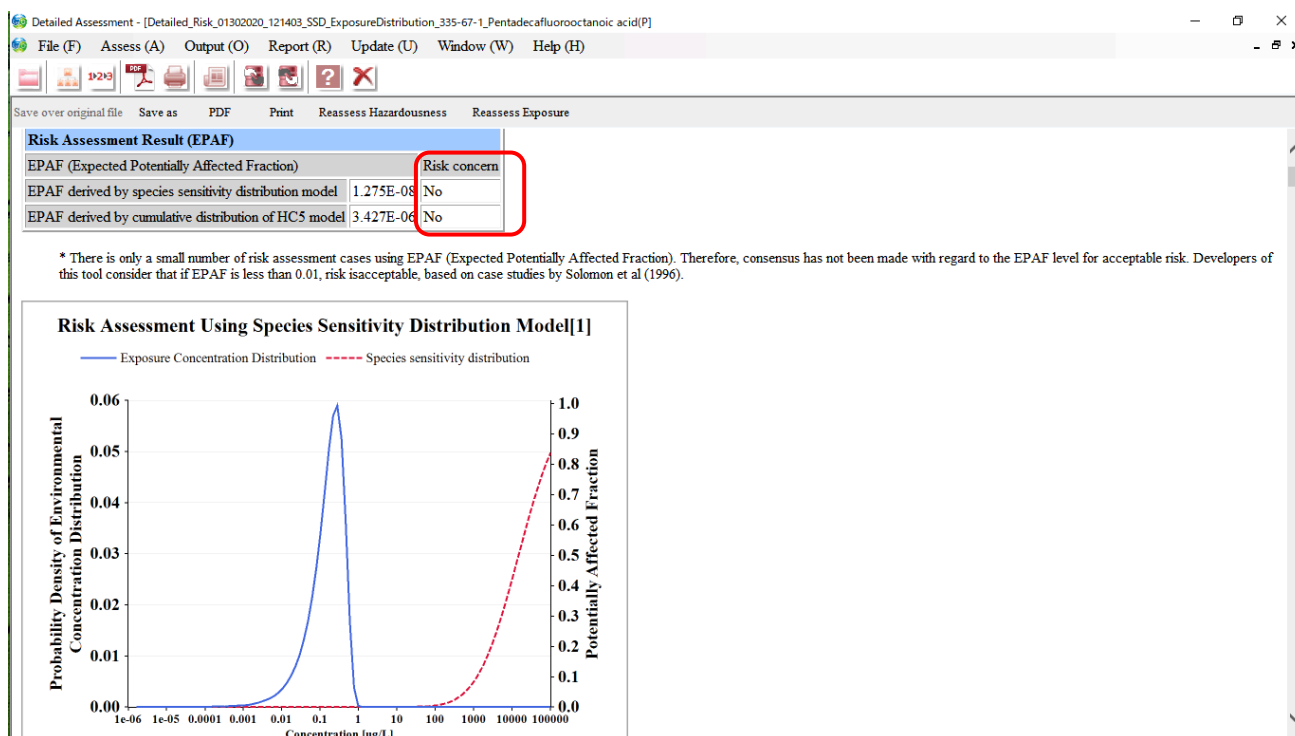
### 7-2-3. Risk assessment

① Click “Risk Assessment” and check the files and click “Assess.”



② The result of risk assessment is displayed as below.

At the top left of the display, it shows the risk concerns. You can download and save the result as PDF file.





## 8. ChemTHEATRE Site Policy

### ■ About ChemTHEATRE

ChemTHEATRE (Chemical in the THEATRE: Tractable and Heuristic E-Archive for Traceability and Responsible-care Engagement) is a database to deposit and visualize the monitoring data of chemicals in environment. ChemTHEATRE stores chemical concentrations in environmental specimens with metadata of the samples (sampling date and location, organism and its biometry, and so on) and of experimental methods (extraction method, used standards, instruments, etc.), which make it possible to search the concentration data not only by chemicals but also by sample types, species, sampling places, sampling year, and so on.

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