

# Supplementary Information for IMPRESSION Generation 2 – Accurate, fast and generalised neural network model for predicting NMR parameters in place of DFT.

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# Statement on Software and Data availability

The IMPRESSION software is temporarily available at <https://www.impression-nmr.com/> but may have limited capacity or be inaccessible while the authors finalise this webtool for use. Once finalised, this Statement will be updated to identify avenues to accessing the software for academic and non-academic purposes.

The data presented in this work is available at: <https://github.com/orgs/Buttsgroup/repositories>

## S1 Methods

### S1.1 Graph Transformer Network

Graph Transformer Network<sup>1</sup> (GTN) is the implementation of the transformer<sup>2</sup> architecture into graphs data, enabling the use of the attention mechanism to evaluate interactions between nodes of different labelled data type. In the context of NMR parameter prediction, this allows the weighting of relationships between chemical shifts and coupling constants between different environments (e.g. the local environment of a  $\delta^{13}\text{C}$  shift in an environment based on neighbouring atoms and atom-pair interaction over a given distance in space). This implementation of the GTN is an adapted version of the solution presented in the CHAMMPS Kaggle competition<sup>3</sup>.

#### S1.1.1 Graphs

A natural representation of a given molecule is a chemical graph, this data can then be directly converted to an input computational graph. This can be represented by the molecules as a graph ( $G$ ) with atoms as a set of nodes ( $V$ ) feature vectors and bonds as a set of edges ( $E$ ), typically in the form of an adjacency matrix but not always, which corresponds to:

$$G = (V, E)$$

However, since IMP-G2 target values contain coupling constants for distances of up to six-bond, we generate edges ( $E$ ) for all atoms within 6-bond hops away, this results in a partially connected graph.

In IMP-G2, the node only contains information about the atom type, both as a numeric and character representation, with the attached label being the associated chemical shift. The edge contains information about the atom-pair interaction which are: shortest number of direct bonds away (up to 6), and the associated coupling constant label (e.g. '3JCH'), the attached label to the edges contains the coupling constant for this specific interaction. Finally, instead of

an adjacency matrix, we use a distance matrix for edges recording absolute distance in Angstroms for atoms within six bonds of one another, and zero for distances beyond that.

### S1.1.2 Multi-headed<sup>1, 2</sup> attention

Multi-headed attention<sup>2</sup> is the fundamental feature which allows the transformer to resolve complex relationships. Functionally, it is the aggregation of multiple attention heads into a single final feature vector, each single attention head ( $k$ ) focuses on information from a different target label.

For each head ( $k$ ) we have the following steps:

1. Linear Transformation

$$h_i^k = W^k h_i$$

Where for node ( $i$ ), with the feature vector ( $h$ ) containing the node information, is multiplied by a weight matrix ( $W$ ) associated with this attention head. The weight matrix ( $W$ ) is a parameter adjusted through training. Resulting in the updated node feature vector of  $h_i^k$ .

2. Attention coefficient,  $e_{ij}$

$$e_{ij}^k = \text{LeakyReLU}(a^k[h_i^k \parallel h_j^k])$$

The attention coefficient ( $e_{ij}$ ) is a measure of the contributions for a given neighbour ( $j$ ) with respect to the focus of the attention head (i.e. how much this interaction is weighted when considering the chemical environment of a given atom.) for the node of interest ( $i$ ). Using the transformed feature vectors, the features are concatenated together and then multiplied by a learnable parameter vector ( $a^k$ ), specific to the attention head ( $k$ ). The calculated value is then activated with LeakyReLU<sup>4</sup> to return the same value if it's positive or reduced negative values by scaling if it's negative.

3. Normalised attention coefficient  $\alpha_{ij}$ :

$$\alpha_{ij} = \frac{\exp(e_{ij})}{\sum_{k \in N(i)} \exp(e_{ik})}$$

The normalised attention coefficient for a given atom-pair interaction is a value between 0 and 1 directly correlating the weighted contribution of said interaction with a higher value being of greater importance. This is calculated by taking the exponent of the target attention coefficient of interest and dividing it by the sum of all attention coefficient present for atom ( $i$ ) against the nodes in set  $k$ . The exponential is included to

exemplify higher calculated attention coefficients. As this is a division against a set of given data, the summation of all normalised attention coefficients  $\alpha_{ij}$ , equated to one for a given atom.

$$\sum_{j \in N(i)} \alpha_{ij} = 1$$

4. Aggregation and activation:

$$\sum_{j \in N(i)} \alpha_{ij} W h_j$$

The updated feature vector,  $h_i'$ , after a pass through the attention head is calculated by summing all the feature neighbouring node vectors multiplied by their respective attention coefficients, where the weight is the attention coefficient calculated.

$$h_i^{k'} = \sigma \left( \sum_{j \in N(i)} \alpha_{ij} W h_j \right)$$

This is then passed to an activation function  $\sigma$ , to introduce non-linearity so inherent features can be derived in back-propagation. The updated feature vector is now  $h_i^{k'}$  for node  $i$  after passing through attention head  $k$ .

This process is applied for each attention head present in multi-headed attention. The final feature vector is measured through either the concatenation or averaging of the values for each given attention head. For IMP-G2 we use averaging:

$$h_i' = \frac{1}{K} \sum_{k=1}^K h_i^{k'}$$

Where  $k$  is a given attention head, and  $K$  is all attention head present. The final feature,  $h_i'$  vectors contain the total sum of interaction accounting for all attention heads in representing the available features. For IMP-G2 with NMR parameter prediction, this equates to an attention head looking at each possible interaction from all given NMR parameters. Enabling the weighted contribution of each connected atom and edge interaction to evaluate a given NMR parameter's environment.

### S1.1.3 Lamb<sup>5</sup> Optimiser

We used the Lamb optimiser for the training optimisation for IMP-G2. This allows the optimiser to assign different learning rates per layer, providing improved stability and adaptive updates per parameter to prevent drastic changes in step sizes. In general, it has been shown to improve scalability of both batch sizes and model layer depth.

## S1.2 IMPRESSION Generation 2 (IMP-G2)

### S1.2.1 Data preparation

Prior to training the molecules are converted to graphs using DGL with atoms to nodes, and edges representing through space interaction, we only generate edges for nodes within 6 bonds of one another. We store the atom type as an integer value (H = 1, C = 6,...), with DFT calculated chemical shifts under 'Shift' as the label for ground truth.

For edges we features we store, the 'nmr\_type' after it has been mapped based on the desired coupling constant to be trained on as this directly relates to the number of attention heads required; Distances as 'dist', the absolute distance from one atom to another in Angstroms; Path length as 'path\_len' corresponding the number of bond hops away one atom is from another; finally a 'coupling' label to store coupling constant as the ground truth for loss calculation.

All chemical shifts and coupling are normalised with respect to each other to values between 0 and 1. Values are subsequently descaled after predictions.

### S1.2.2 IMP-G2 – Architecture

IMP-G2 is an adapted version of the GTN using attention to weight the contribution of each NMR parameter with respect to the predicted chemical shift or coupling constant. Here we outline the architecture, comprising layers, hyperparameters, and data generation pipeline.

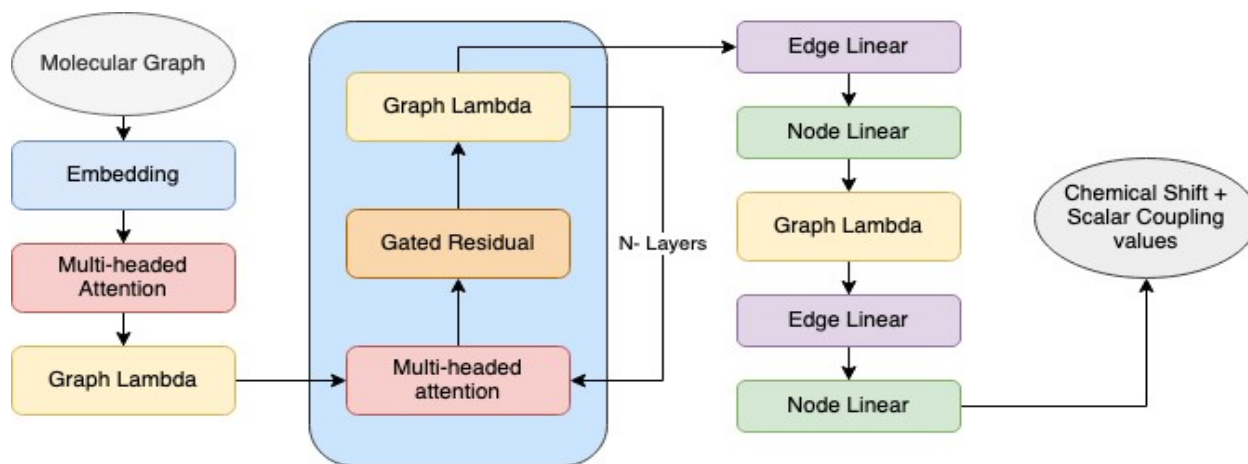


Figure S1. Flowchart of layers within the IMPRESSION-G2 model.

IMPRESSION Generation 2 (Figure S1) contains the following layers:

#### 1. Embedding

The embedding layer is effectively tokenisation applied to the Graph Transformer Network, enabling the projection of node and edge features into a matrix representation of a predetermined dimension, desired predictions are mapped onto a specific row corresponding to a target flag (NMR parameter). Node embedding

dimensions are 61 x 48, edge embeddings are 1000 x 48. This produces the same dimensionality for all graphs, standardising the input format.

## 2. Multi-headed attention

Implementation of multiheaded attention (Section S1.1.2) layer with an attention head corresponding to each NMR parameters present in the graph. In IMP-G2 we utilise 42 attention heads.

## 3. Graph Lambda

Layer updating node and edge features with reshaped outputs from previous attention weighted interaction and/or gated residual layers to fit the layer dimensions.

## 4. Gated Residual<sup>6</sup>

Enables data to flowthrough prior to multi-headed attention layers for the model to evaluate the effect of attention on the updated representation and correlation to NMR parameters in this instance.

## 5. Attention Block

The repeating block of IMP-G2 where the effects of attention layers are culminated. It consists of the multi-headed attention layer, gated residual layer, and a graph lambda layer.

## 6. Node and Edge Linear

Linear layers of neurons to process the latent embeddings updated by multiheaded attention to the final output values of chemicals shifts (node layers) and coupling constants (edge layers). The first set of node and edge layers takes in input dimensions of 48 x 42 (embedding dimension by attention heads) to a 512 x 1 dimension, the second layer of linear layers takes the 512 x 1 into 42 x 1 for final output with each of those 42 values corresponding to the specific NMR parameters as mapped by the attention heads from the initial target labels.

We use L1 regularisation/loss (Mean absolute error) as the metric for determining loss during training.

### S1.2.3 IMP-G2 - Hyperparameters

The following are the fundamental tune-able hyper-parameters for the model:

- Training epochs: **2000**
- Number of attention heads: **42**
- Number of layers (attention block): **4**
- Effective batch size: **16** (batch size, **2** \* gradient accumulation, **8**)
- Targetflags (Predictable NMR parameters): ['HCS', 'CCS', 'NCS', 'FCS', '1JCH', '1JCC', '1JNH', '1JNC', '1JFC', '2JCH', '2JHH', '2JCC', '2JNH', '2JNC', '2JFH', '2JFC', '2JFN', '2JFF', '3JCH', '3JHH', '3JCC', '3JNH', '3JNC', '3JFH', '3JFC', '3JFN', '3JFF', '4JCH', '4JHH', '4JCC', '4JNH', '4JNC', '4JFH', '4JFC', '4JFN', '4JFF']

Training epochs are how many full passes of training data the model sees; attention heads correspond to the number of heads in multi-headed attention (Section S1.1.2); layers are the repeating block as described in S1.2.2; effective batch size is the number of graphs (molecules)

the model sees at a time before updating weights and also how many graphs the models sees at one time during prediction – this is calculated through the batch size multiplied by the gradient accumulation value; targetflags are the labels of the NMR parameters to be predicted, the architecture of the model means that the number of attention heads must be greater than the number of targetflags as each labels corresponding to a prediction typed are mapped onto individual attention heads.

## S1.3 Training and testing data

### S1.3.1 Diversity sampling

All molecules we use in our training data were adaptively sampled from large databases. These consist of Cambridge Structural Database (CSD), ChEMBL, and OTAVA.

### S1.3.2 DFT NMR parameter calculation workflow

In order to train and test IMPRESSION, we developed a dataset of NMR parameters computed using DFT in the Gaussian16 software package.<sup>7</sup> We conducted a literature review and independent benchmarking of a wide range of functionals and basis sets and found that there is no best single method that is *both* optimally accurate and optimally computationally efficient for predicting *both* chemical shifts and scalar coupling constants for *both*  $^1\text{H}$  and  $^{13}\text{C}$  nuclei. However there are many combinations which are good or near-best in several of those respects and alternative DFT methods would have provided very similar results (see S3.3 for evidence of this point), so the exact choice of which DFT method to choose for the IMPRESSION-G2 training set is not considered especially limiting unless a far superior DFT methodology is forthcoming, at which point retraining IMPRESSION-G2 using such training data would be sensible.

From this benchmarking we selected mPW1PW91/6-311g(d,p) for optimisation and  $\omega\text{b97xd}/6\text{-}311\text{g(d,p)}$ <sup>8-12</sup> for computing both chemical shifts and scalar coupling constants as these were amongst the most computationally efficient methods that gave accurate results for both  $^1\text{H}$  and  $^{13}\text{C}$  shifts and couplings.

#### S1.3.2.2 GFN-xTB<sup>9</sup>

The semi empirical quantum chemical method GFN2-xTB<sup>15</sup> was used as another method of geometry optimisation. In each case, the Approximate Normal Coordinate Rational Function Optimizer was used (ANCOPT) with default parameters.

- Optimisation level: **normal**
- Maximum Optimisation Cycles: **200**
- ANC Micro Cycles: **20**

- RF Solver: **Davidson**
- Energy Convergence:  **$0.5 \times 10^{-5} E_h$**
- Gradient Convergence:  **$0.1 \times 10^{-2} E_h/\alpha$**
- Maximum RF Displacement: **1.0**
- HLow Frequency Cut Off:  **$0.1 \times 10^{-1}$**
- HMax Frequency Cut Off: **5.0**
- S6 in Model Hessian: **20.0**

### ***S1.3.2.3 DFT Geometry Optimisation***

Following initial geometry optimisation (Molecular Mechanics Section S1.3.2.1 for the generation of our training molecules) as highlighted in the main article, we carried out DFT geometry optimisation using Gaussian16 to get refined input coordinates. Here are the starting block and route line parameters used for all DFT geometry calculations for the training/testing data we generated:

```
%Chk={molecule_name}_OPT.chk
%NoSave
%mem=26GB
%NProcShared=8
# opt=tight freq mPW1PW/6-311g(d,p) integral=ultrafine MaxDisk=50GB
```

### ***S1.3.2.4 DFT NMR Tensor and Scalar Coupling Constant Calculation***

The optimised geometries are then extracted from the Gaussian16 output log files and used as input coordinates for the DFT NMR Tensor and Coupling Constant calculations. The NMR parameters were calculated using gauge independent atomic orbitals with uncontracted basis sets to improve descriptions of the core orbitals<sup>30</sup> and calculation of all components of the scalar couplings (Fermi contact, spin dipole, diamagnetic spin orbit, paramagnetic spin orbit). Here are the following block and route line parameters used for all DFT NMR parameters calculation for the training/testing data we generated:

```
%Chk={molecule_name}_NMR.chk
%NoSave
%mem=26GB
%NProcShared=8
#T nmr(giao,spinspin,mixed) wB97XD/6-311g(d,p) maxdisk=50GB
```

### ***S1.3.2.5 Chemical Shift Scaling of DFT Tensors***

As DFT calculates tensors, the values need to be linearly scaled to their chemical shift counterpart. This is done through comparison of DFT tensors against experimentally measured

chemical shifts and calculating the slope (m) and linear correction (c) typical of the  $y = mx + c$  equation of a linear line, where x is the tensor and y is the chemical shift.

$$\delta_{EXP} = \frac{\sigma_{DFT} - c}{m}$$

For  $^1\text{H}$  and  $^{13}\text{C}$ , we used the CHESHIRE reference set to calculate our scaling factors which were.

- $^1\text{H}$  = -1.0594, 32.2293 for m, c
- $^{13}\text{C}$  = -1.0207, 187.4436 for m, c

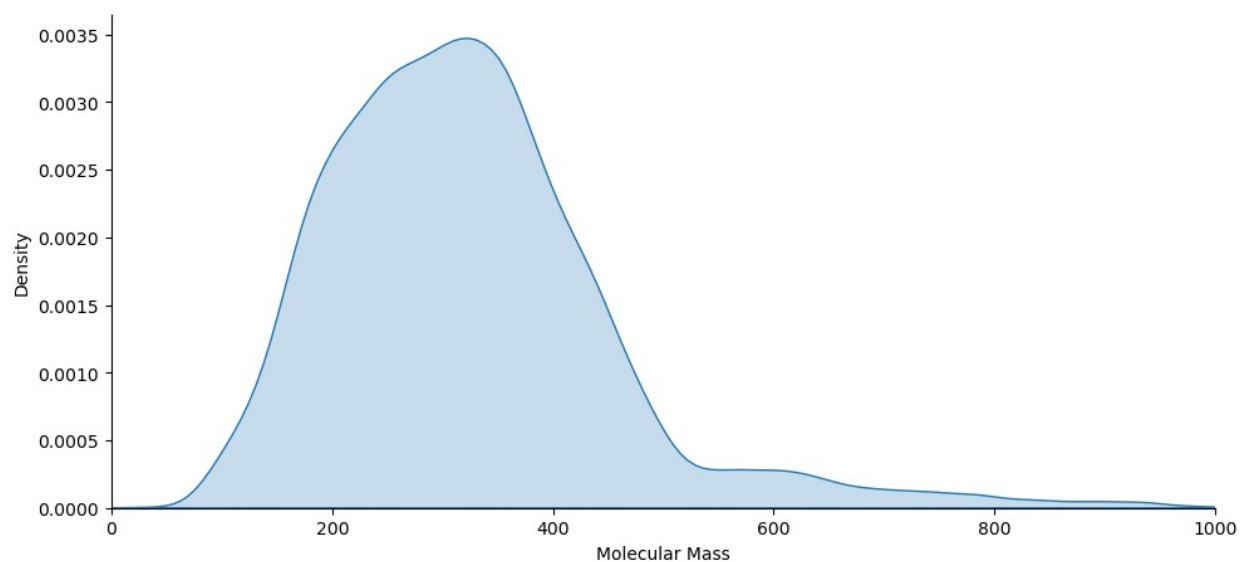
$^{15}\text{N}$ ,  $^{19}\text{F}$ , and  $^{31}\text{P}$  were gathered from literature with matching functional group and basis set<sup>16, 17</sup>.

- $^{15}\text{N}$  = -1.0139, -148.67 for m, c
- $^{19}\text{F}$  = -1.0940, 173.02 for m, c
- $^{31}\text{P}$  = -1.2777, 307.74 for m, c

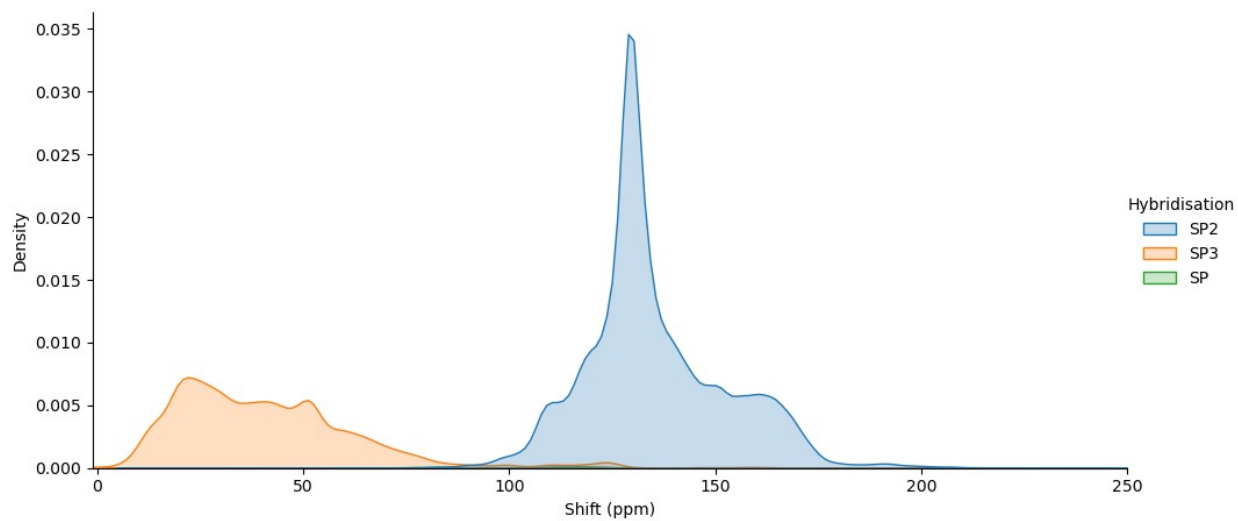
### S1.3.3 Chemical Space covered by Training Dataset

The IMPRESSION-G2 training dataset covers 18182 organic molecules listed in Section S4. These molecules have masses primarily in the range of 50-1000 g/mol, contain C, H, N, O, F, Si, P, S, Cl, Br, and comprises 739,913 chemical shift environments (330,411  $\delta^1\text{H}$ ; 306,458  $^{13}\text{C}$ ) and 5,696,784 scalar coupling constants (including 307,270  $^1J_{\text{CH}}$ ; 486,884  $^2J_{\text{CH}}$ ; 672,433  $^3J_{\text{CH}}$ ; 705,737  $^4J_{\text{CH}}$ ; 134,051  $^2J_{\text{HH}}$ ; 217,940  $^3J_{\text{HH}}$ ; 333,010  $^4J_{\text{HH}}$ ) in addition to corresponding NMR parameters for all other NMR-active nuclei in these molecules. While there is no entirely robust way to ensure diversity in a molecular dataset, various subsets of the data were selected using different diversity sampling methods, including Tanimoto analyses, cross-validation and by including the ChEMBL diversity-sampled dataset. The resulting structural and chemical space can be approximated by visualizing the mass, chemical shift, hybridization and scalar coupling constant distributions of the molecules, as seen here:

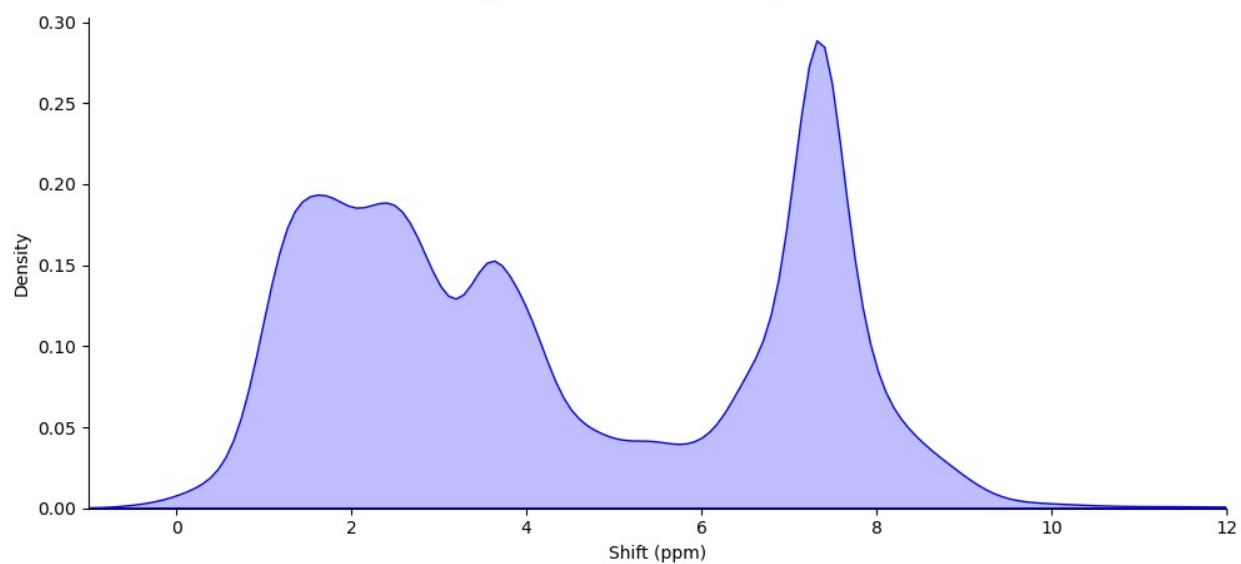
**Training Set Molecular Mass Distribution**



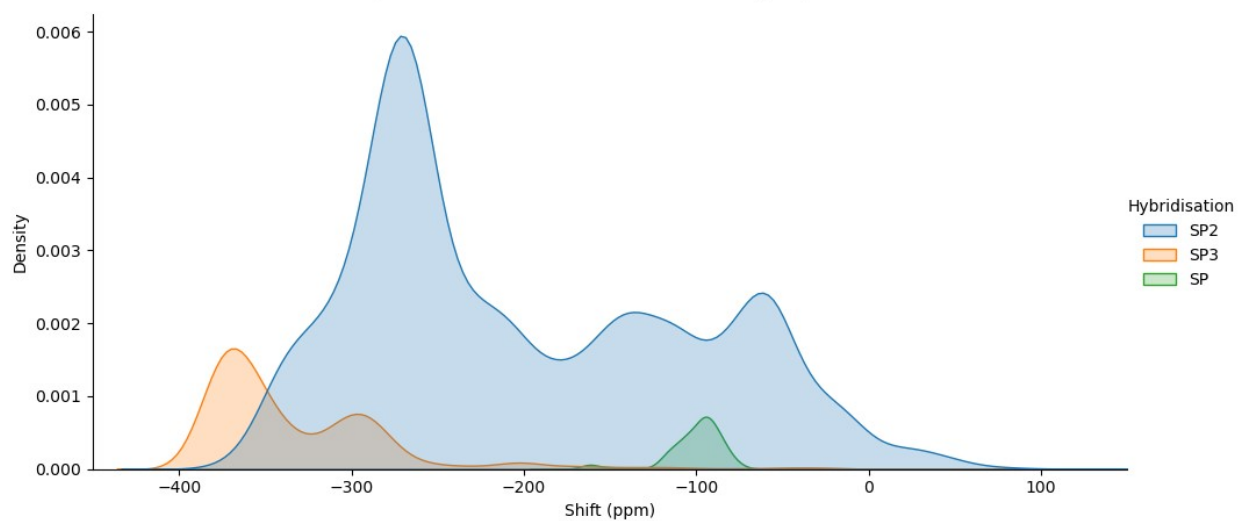
**Training Set  $^{13}\text{C}$  Shift Distribution - By Hybridisation**



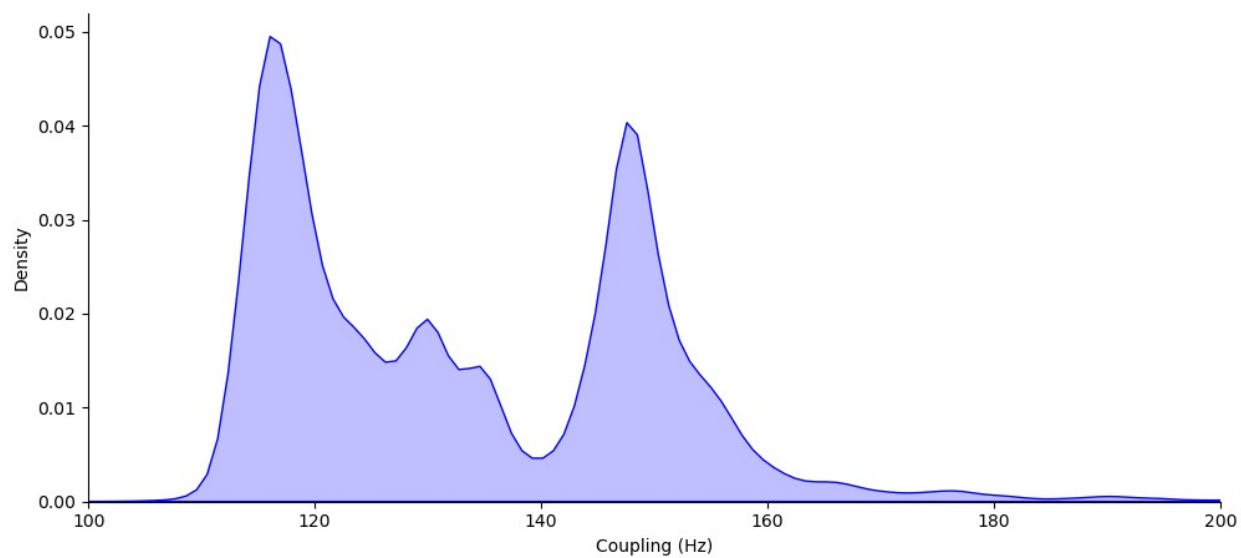
**Training Set  $^1\text{H}$  Shift Density Plot**



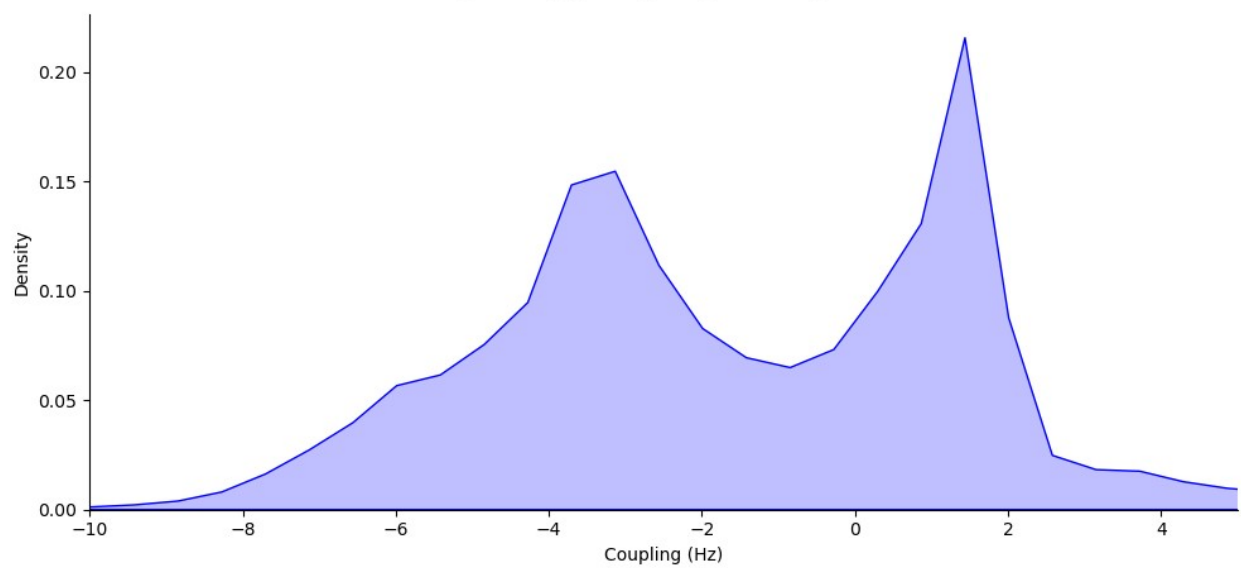
**Training Set  $^{15}\text{N}$  Shift Distribution - By Hybridisation)**



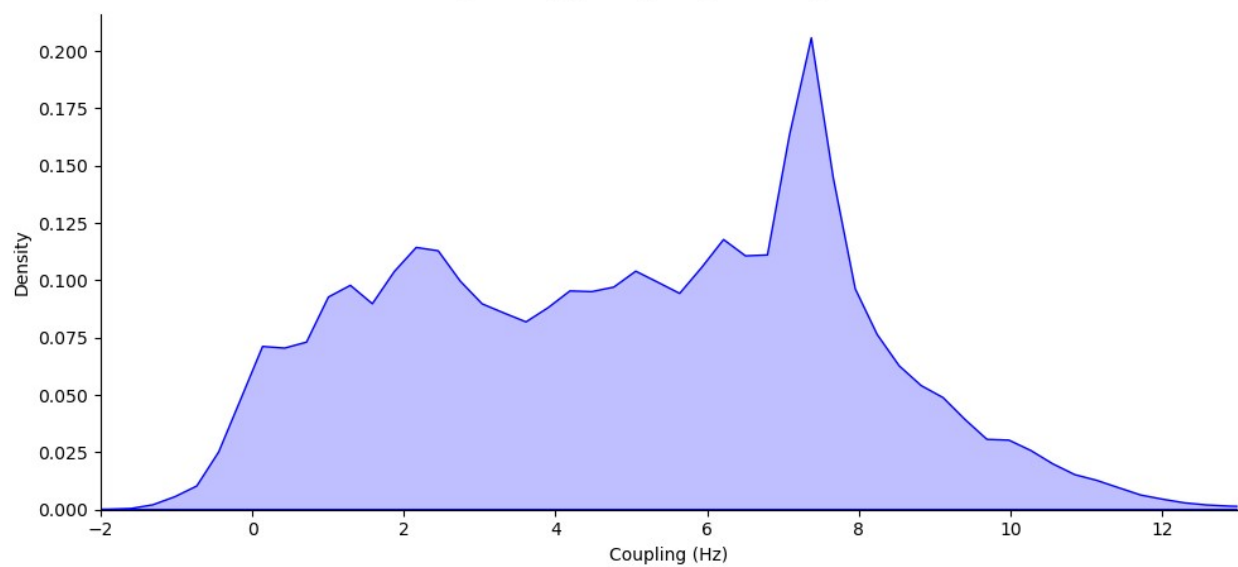
**Training Set  $^1J_{CH}$  Coupling Density Plot**



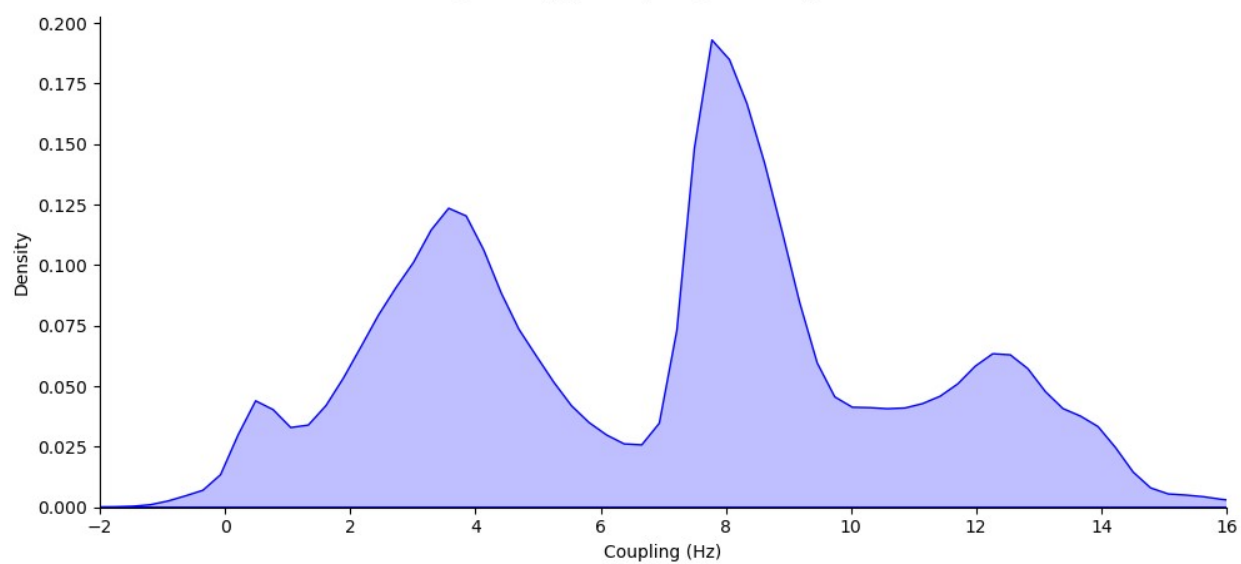
**Training Set  $^2J_{CH}$  Coupling Density Plot**



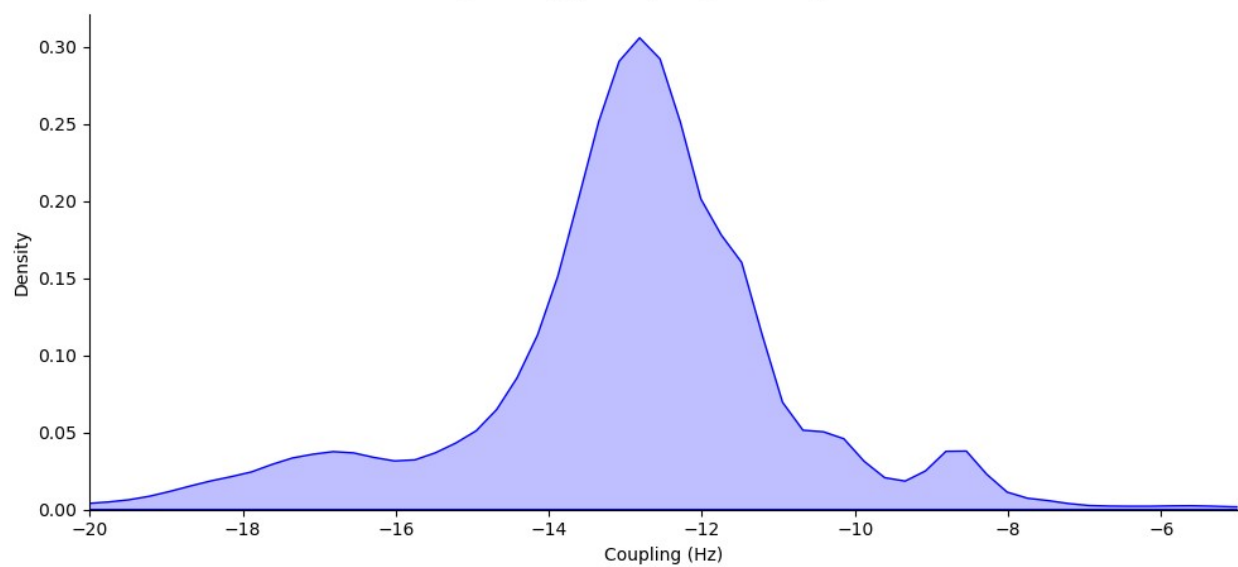
**Training Set  $^3J_{CH}$  Coupling Density Plot**



**Training Set  $^3J_{HH}$  Coupling Density Plot**



**Training Set  $^2J_{HH}$  Coupling Density Plot**



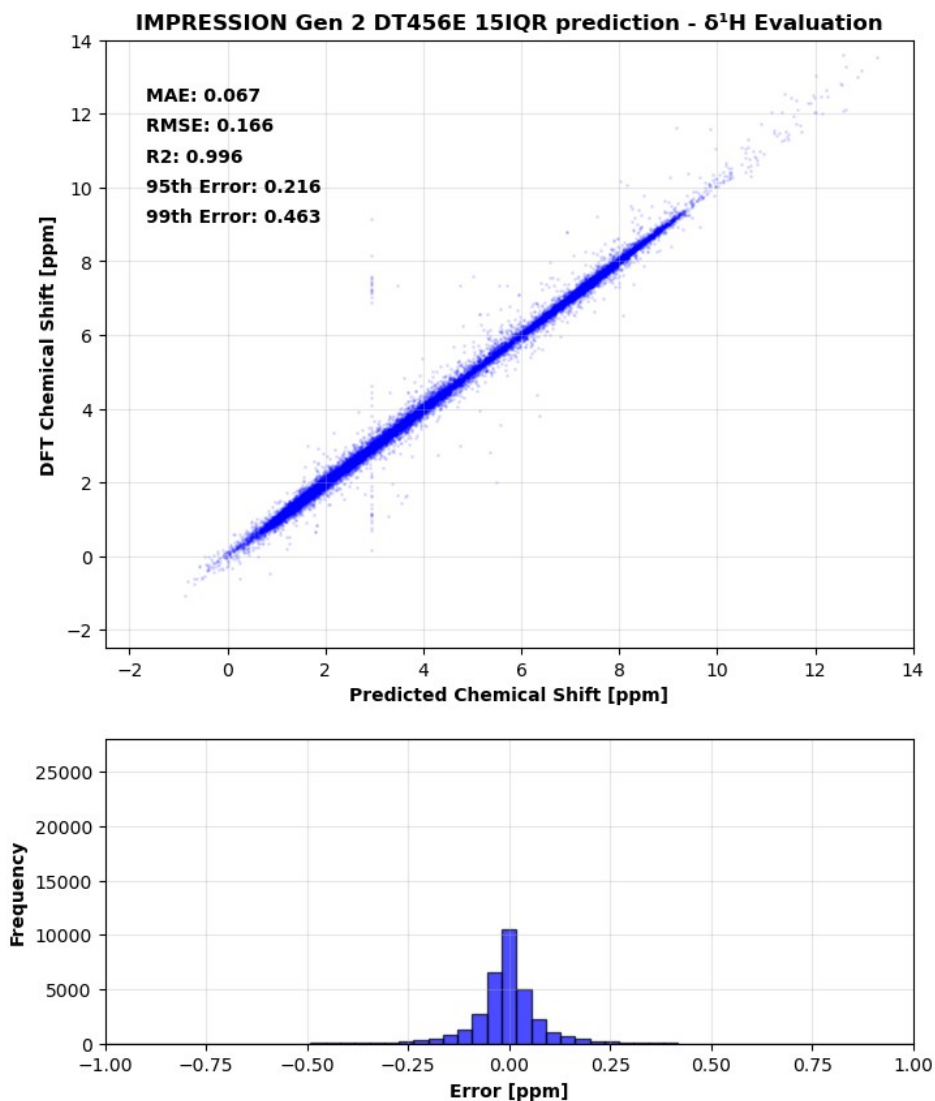
## S2 IMPRESSION-G2 prediction against DFT calculated values

Here we present all of IMP-G2 predictions against DFT calculated values, where Chemical Tensors have been scaled to Chemical Shifts, and Scalar Couplings are taken as is from: the holdout set -10% of withheld structures from the total number of molecules in the training set, Data3 – Testing set from the original IMPRESSION<sup>18</sup> paper, DFT8K\_bg – DFT calculated values from DFT8K<sup>19</sup> structures, recalculated using our DFT functional and basis set.

### S2.1 Chemical Shifts

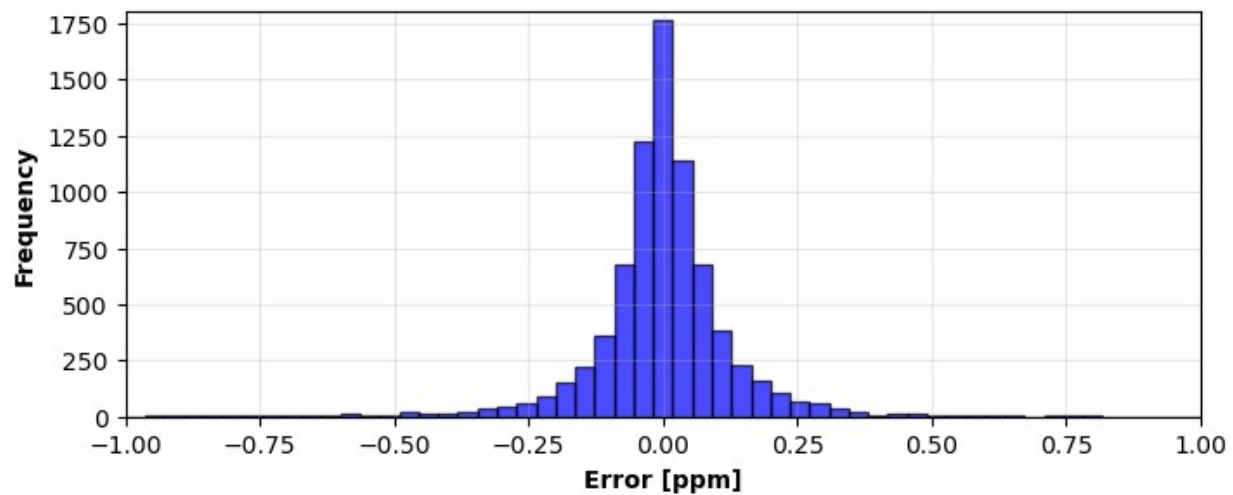
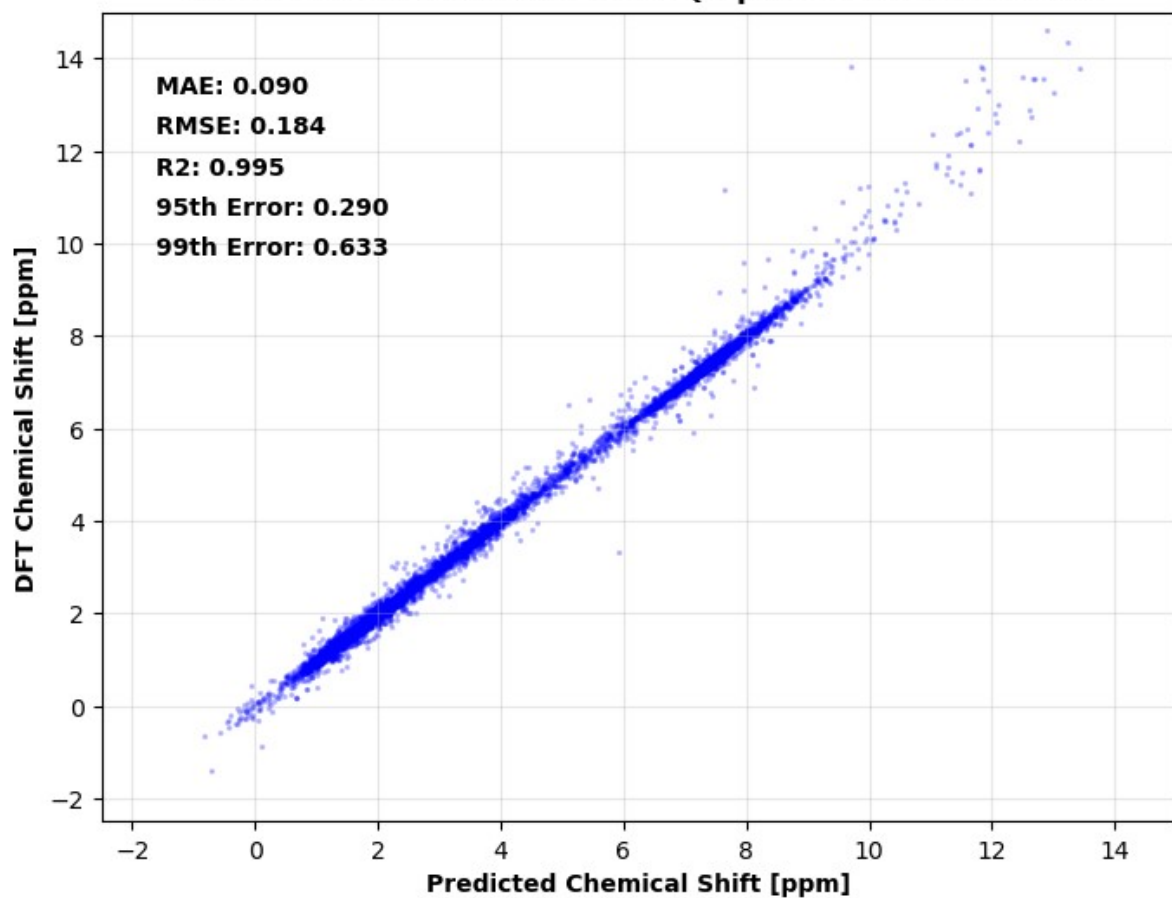
#### S2.1.1 $\delta^1\text{H}$

Holdout



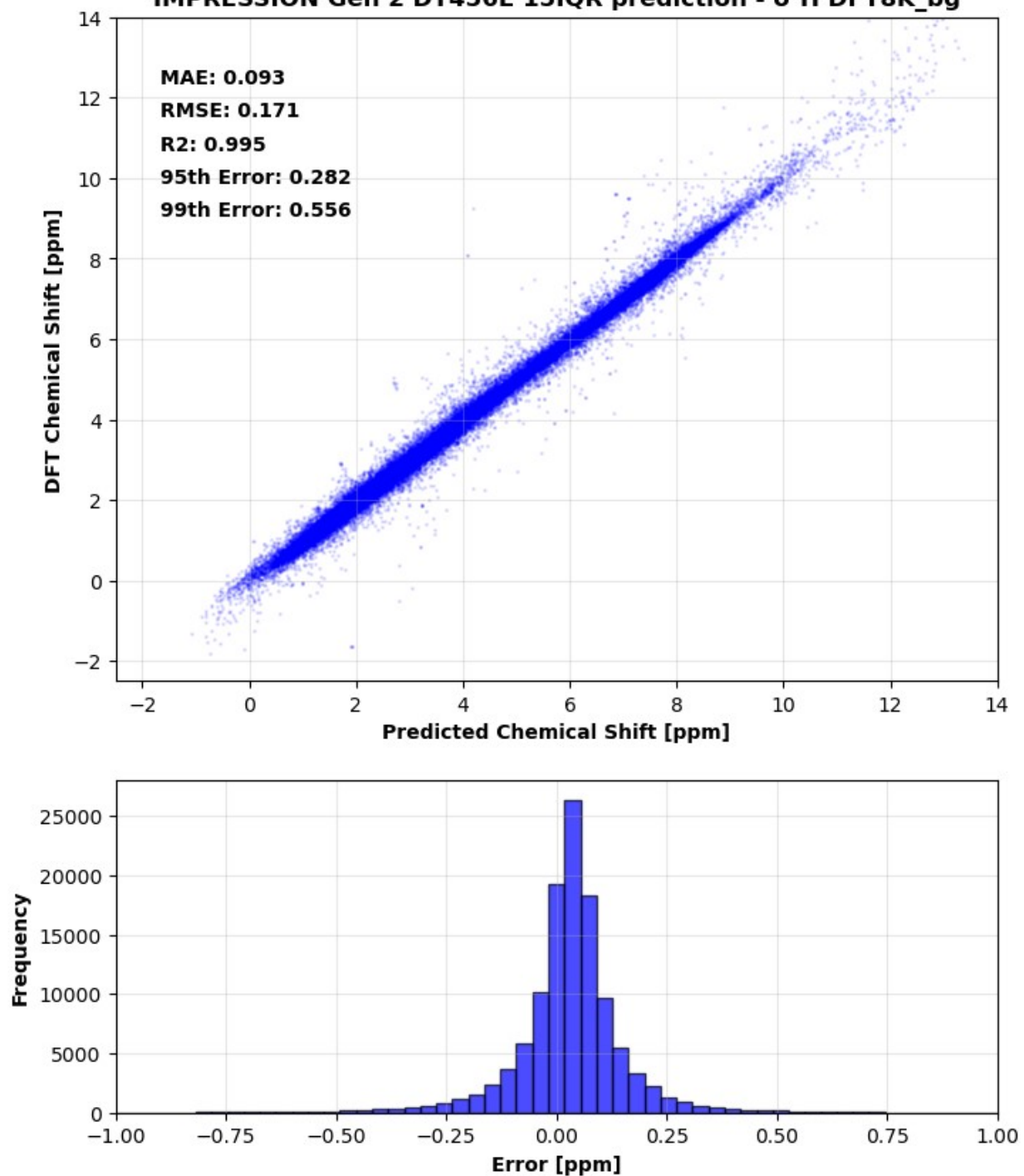
Dataset 3

**IMPRESSION Gen 2 DT456E 15IQR prediction -  $\delta^1\text{H}$  Data3**



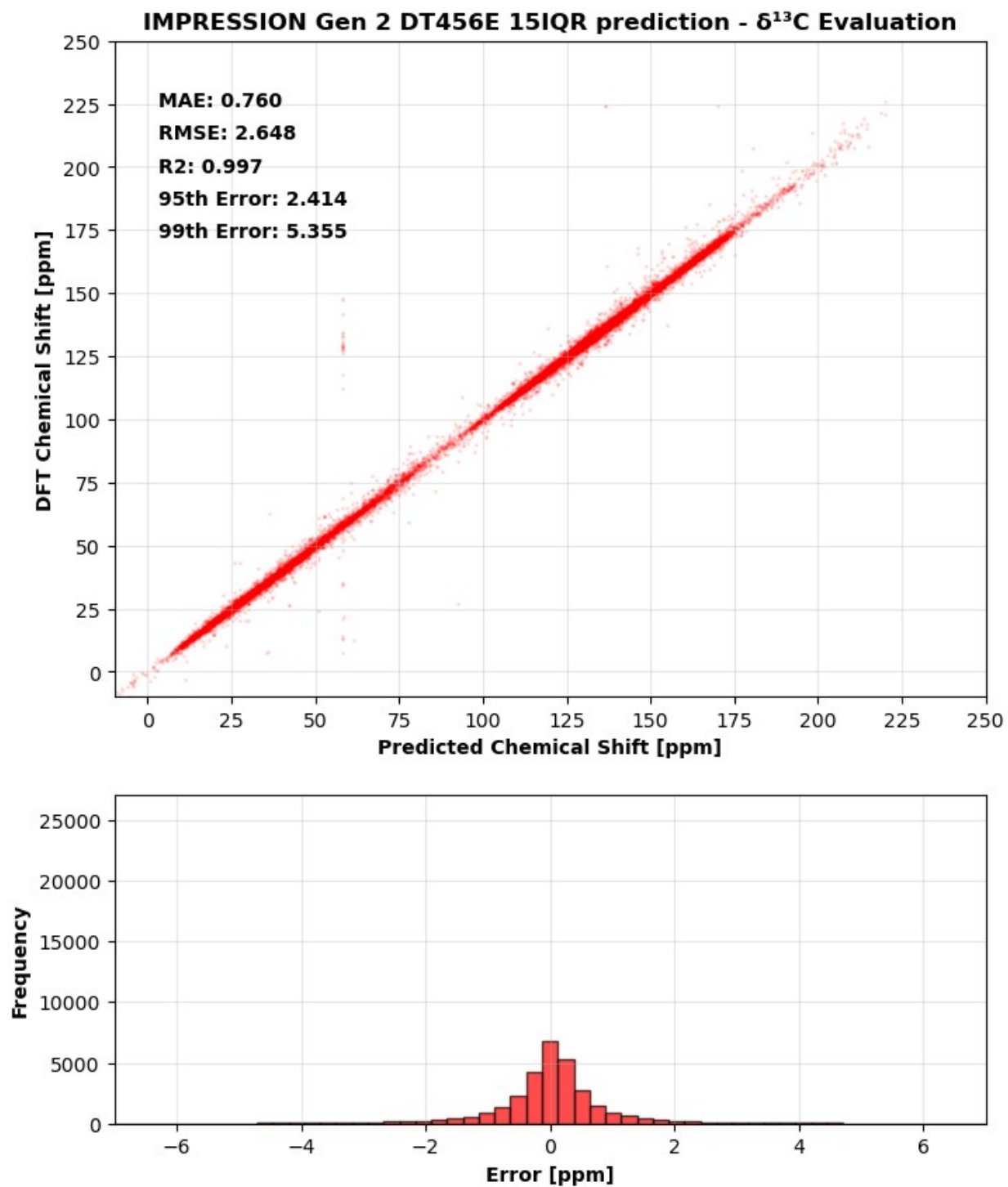
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction -  $\delta^1\text{H}$  DFT8K\_bg**

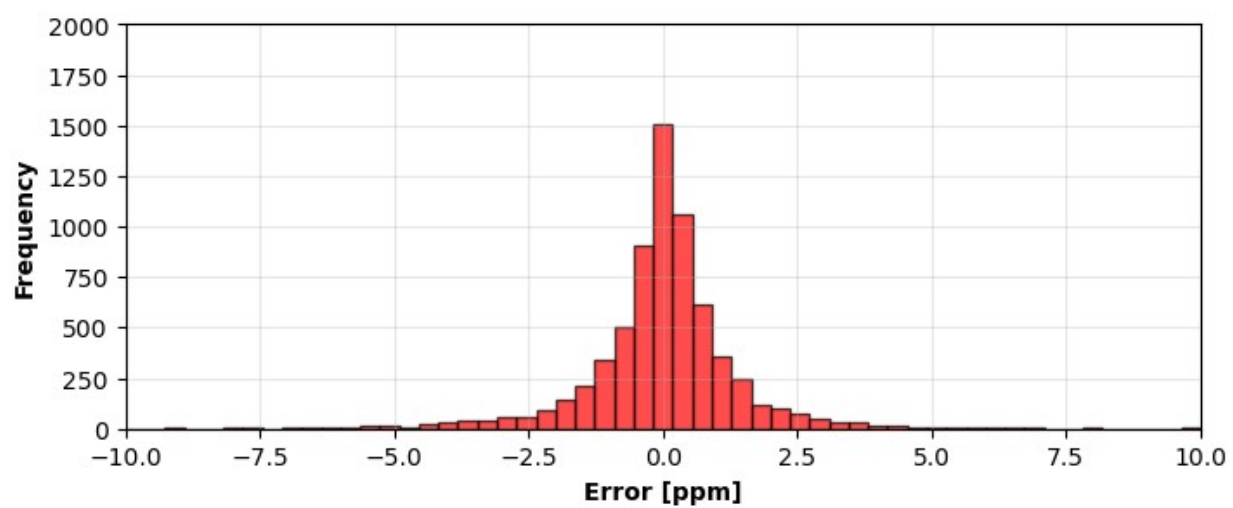
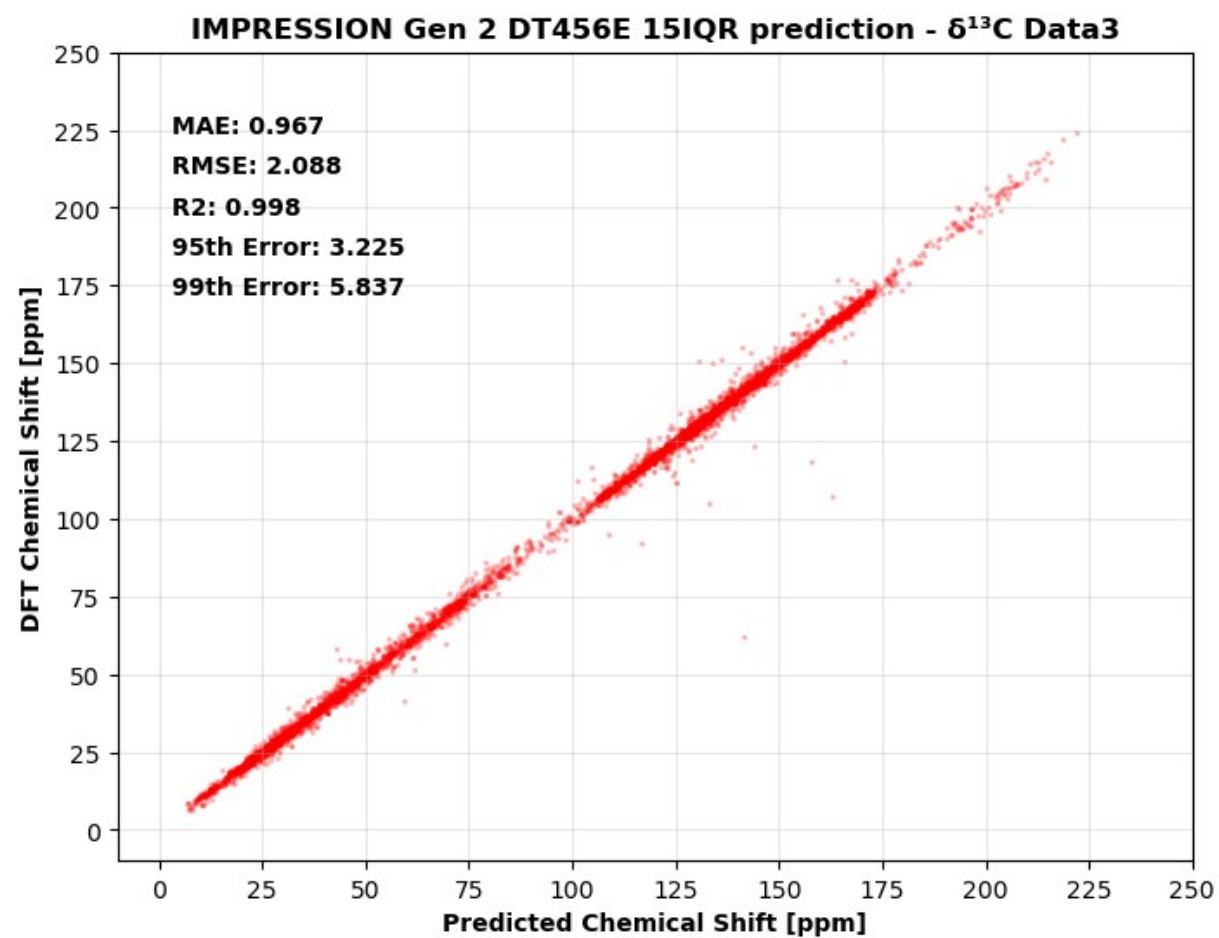


## S2.1.2 $\delta^{13}\text{C}$

Holdout

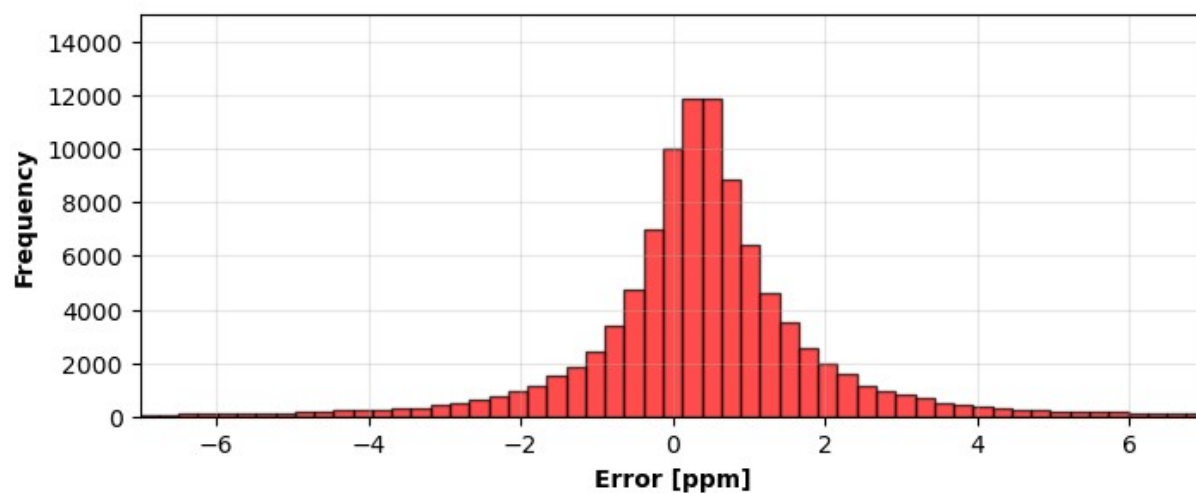
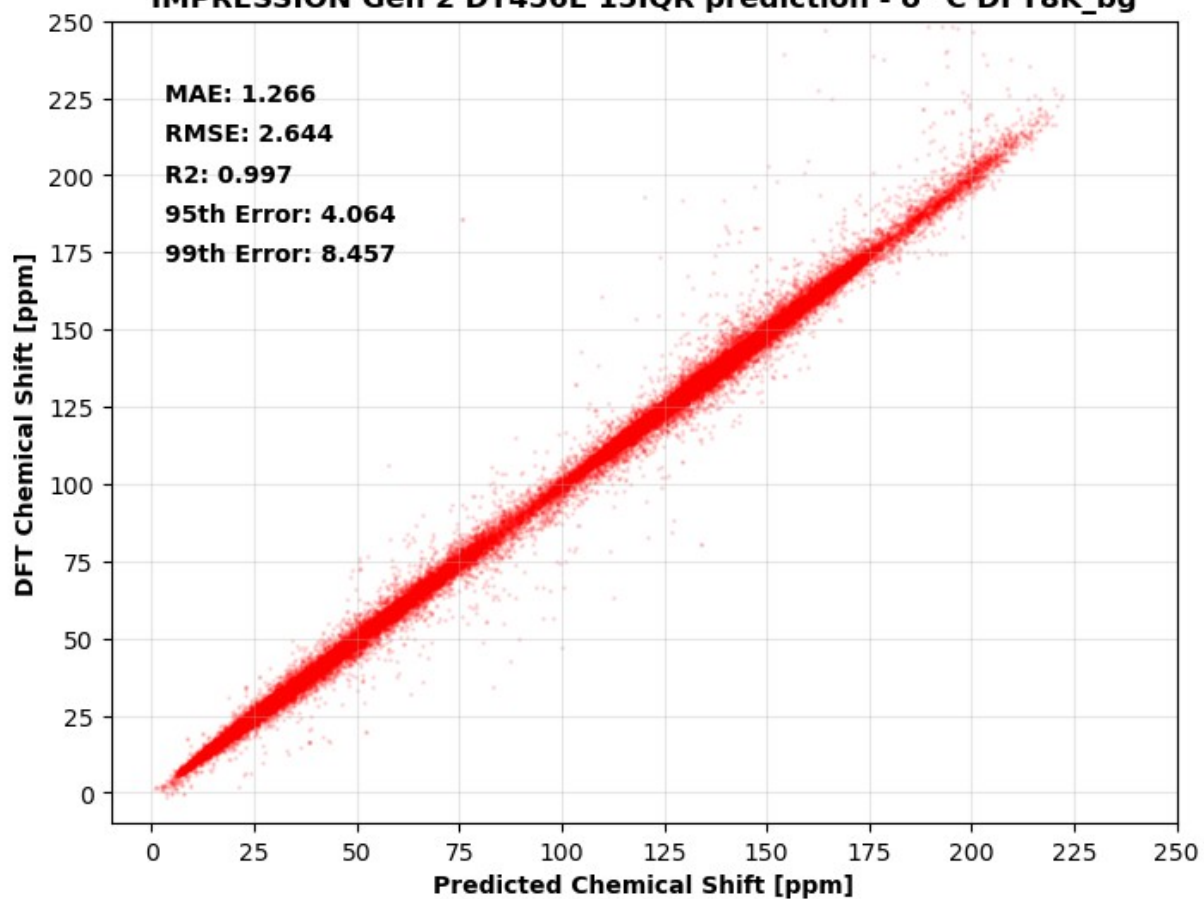


Data3



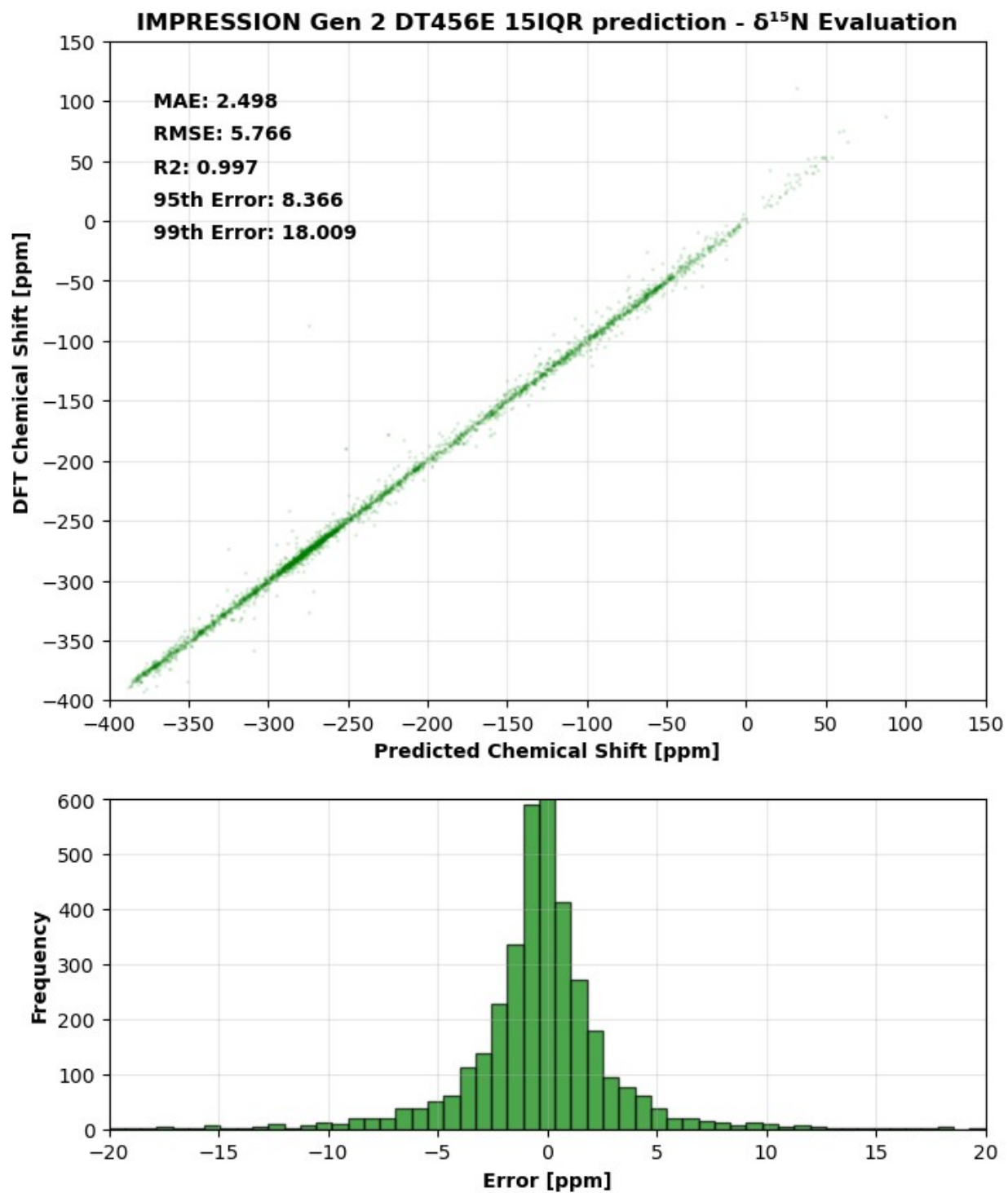
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction -  $\delta^{13}\text{C}$  DFT8K\_bg**

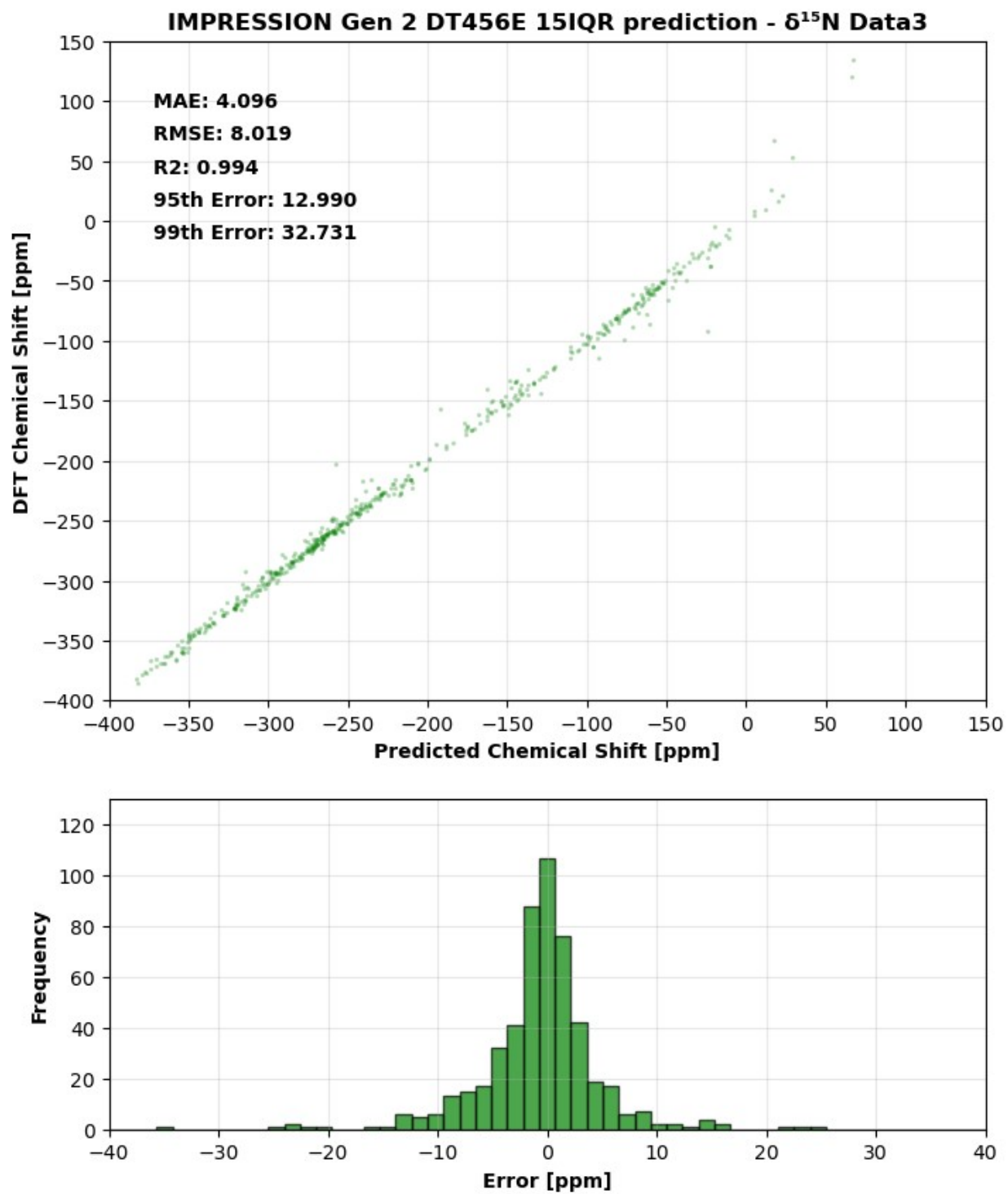


### S2.1.3 $\delta^{15}\text{N}$

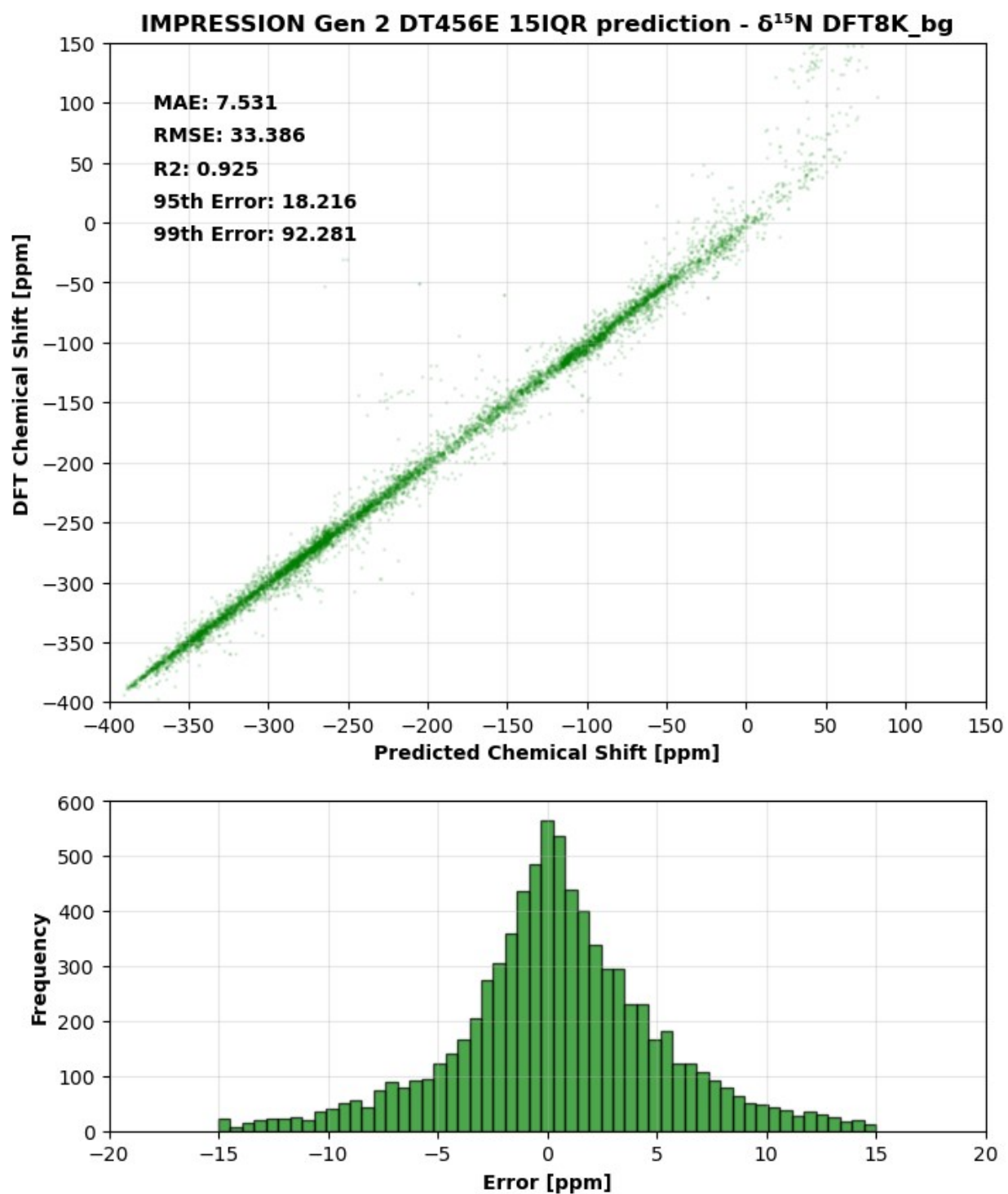
Holdout



Data3

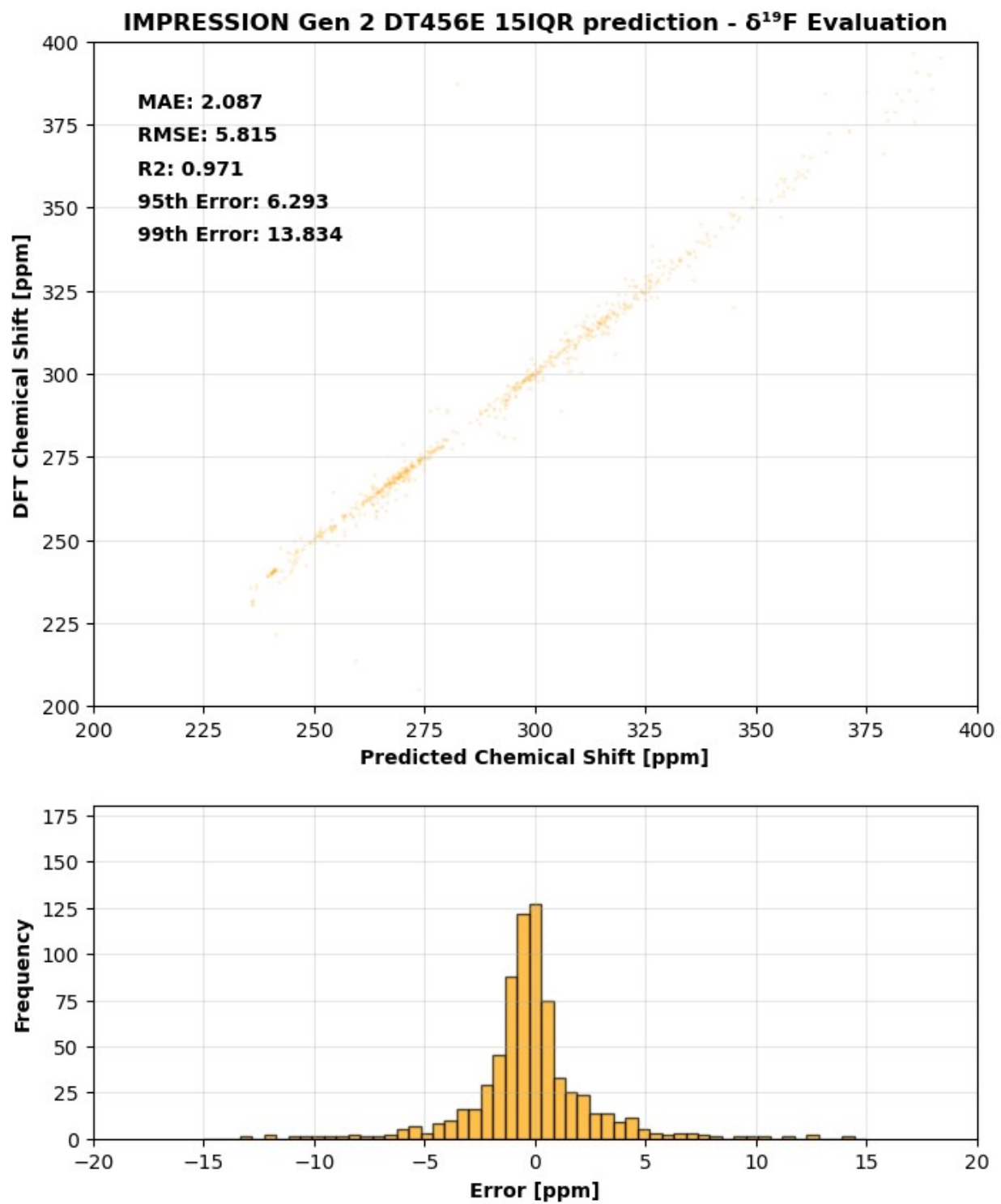


DFT8K\_bg

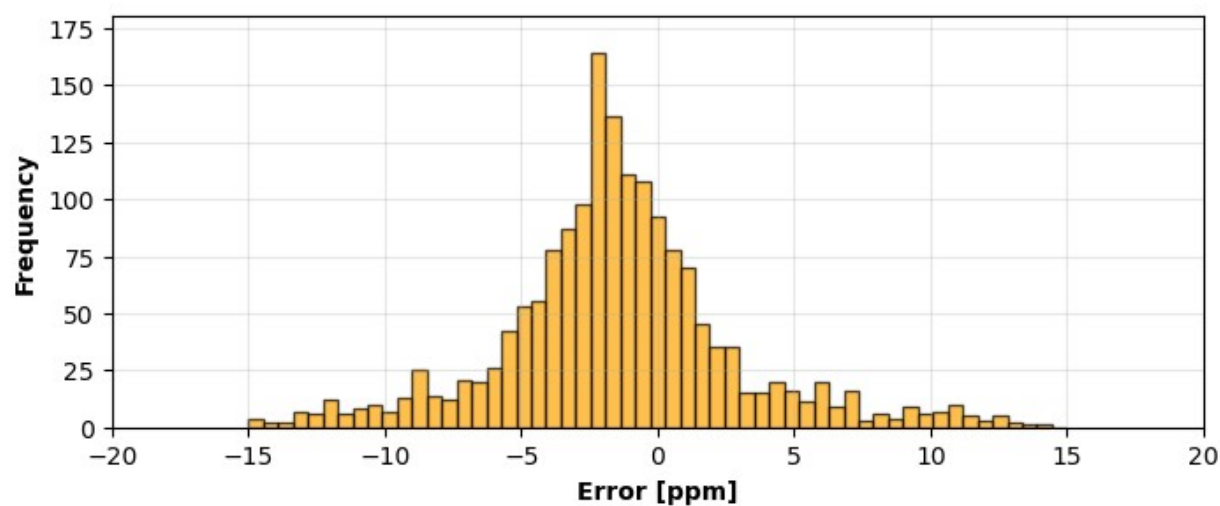
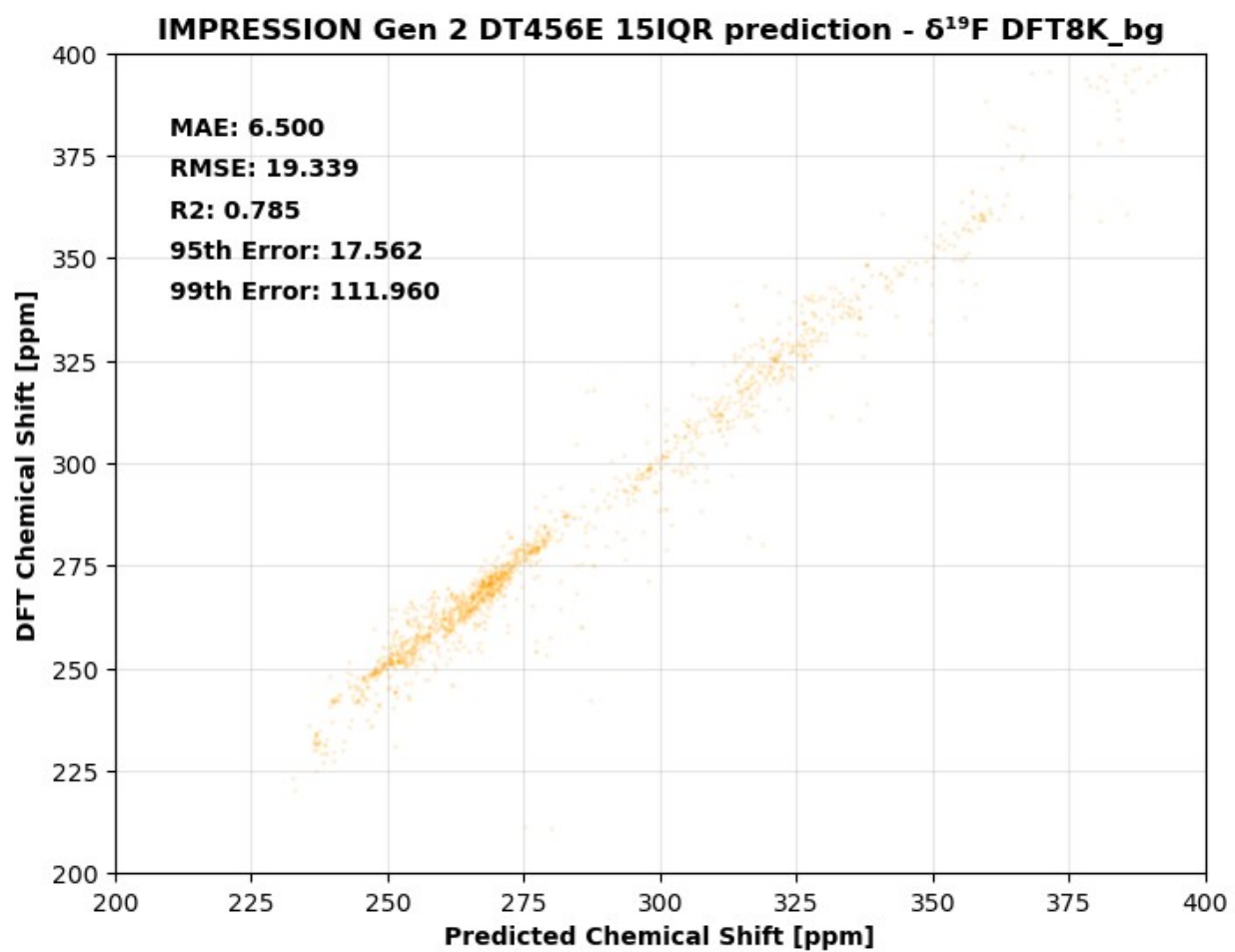


## S2.1.4 $\delta^{19}\text{F}$

Holdout



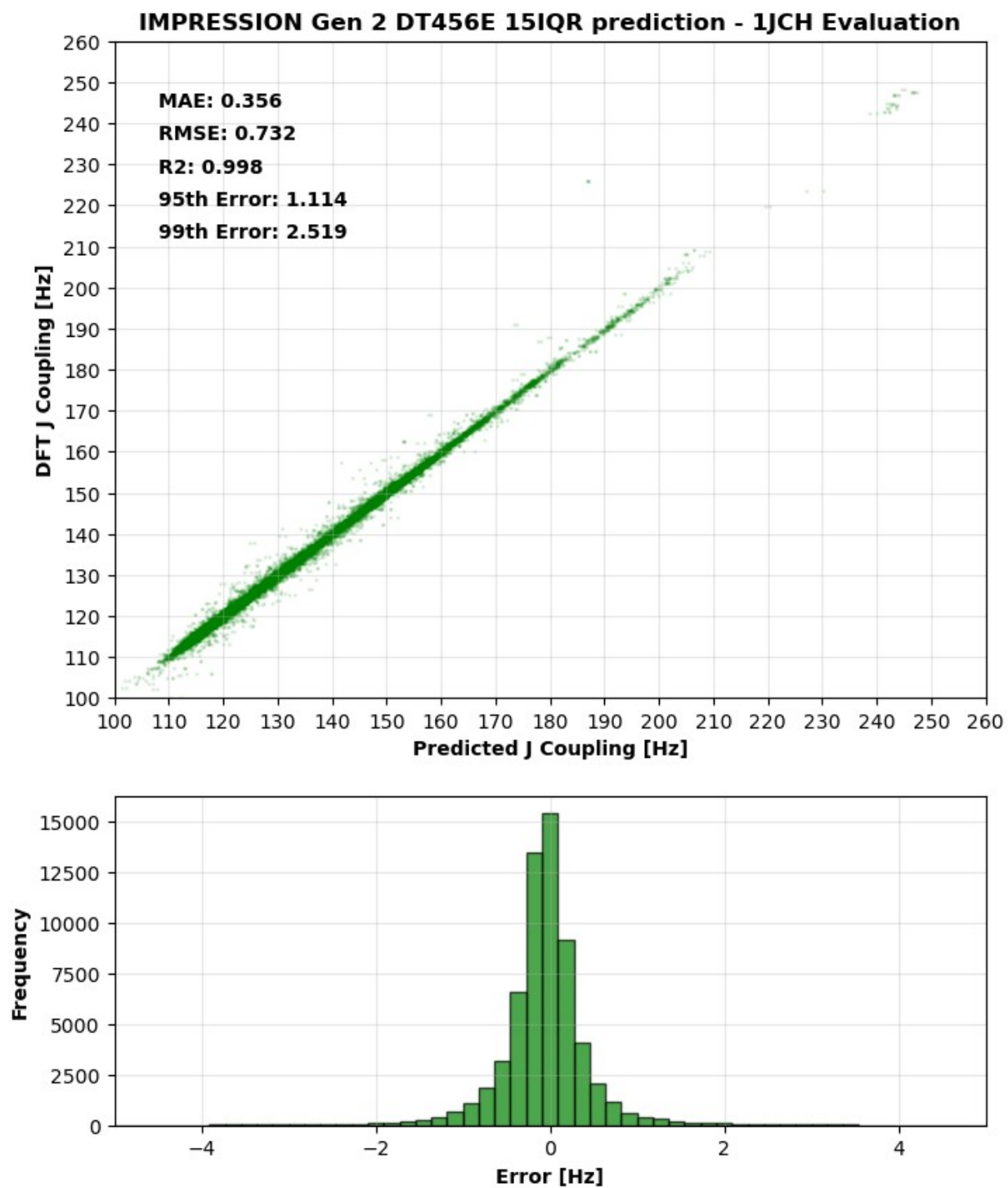
DFT8K\_bg



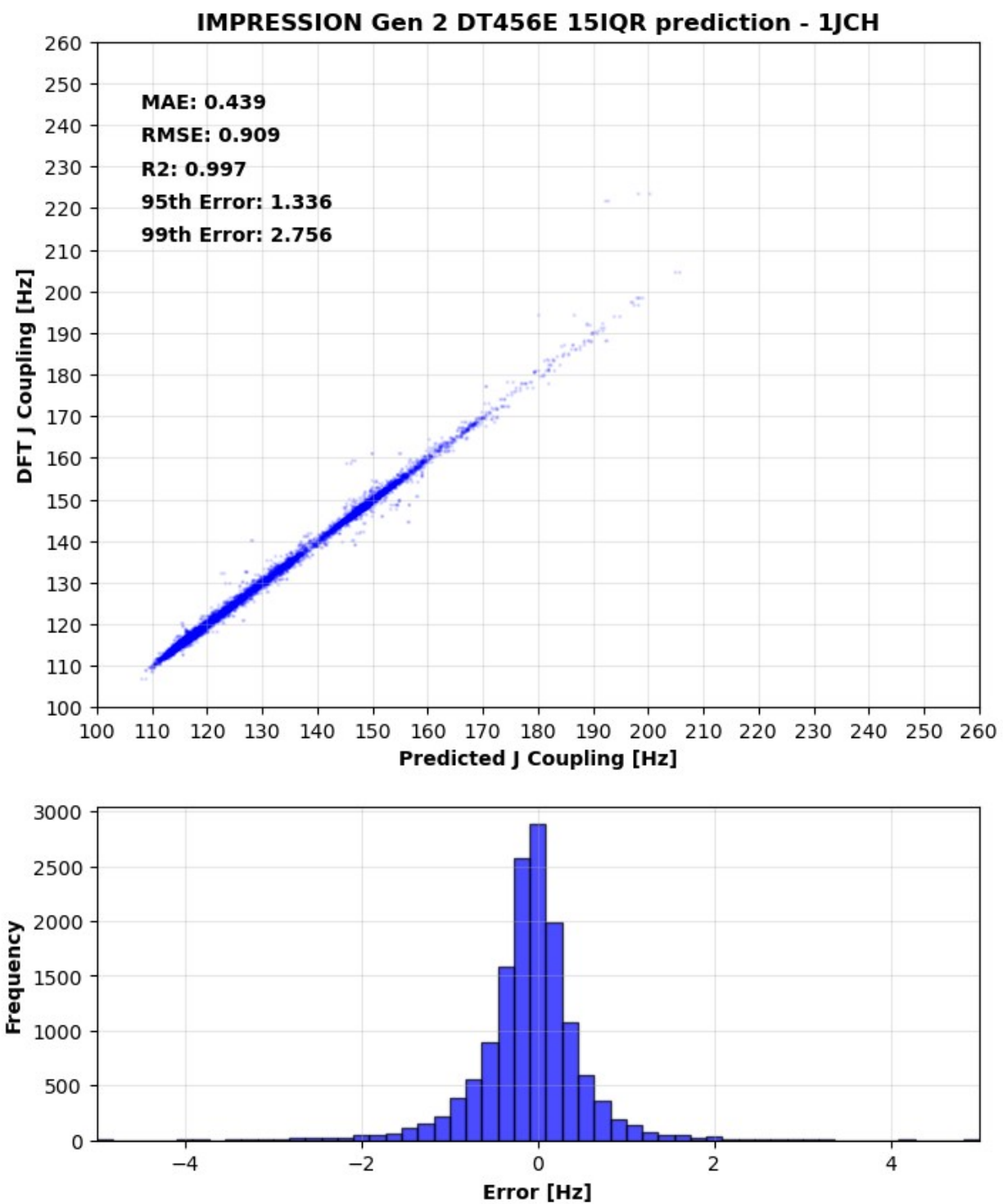
## S2.2 Scalar couplings

### S2.2.1 $^1J_{CH}$

Holdout

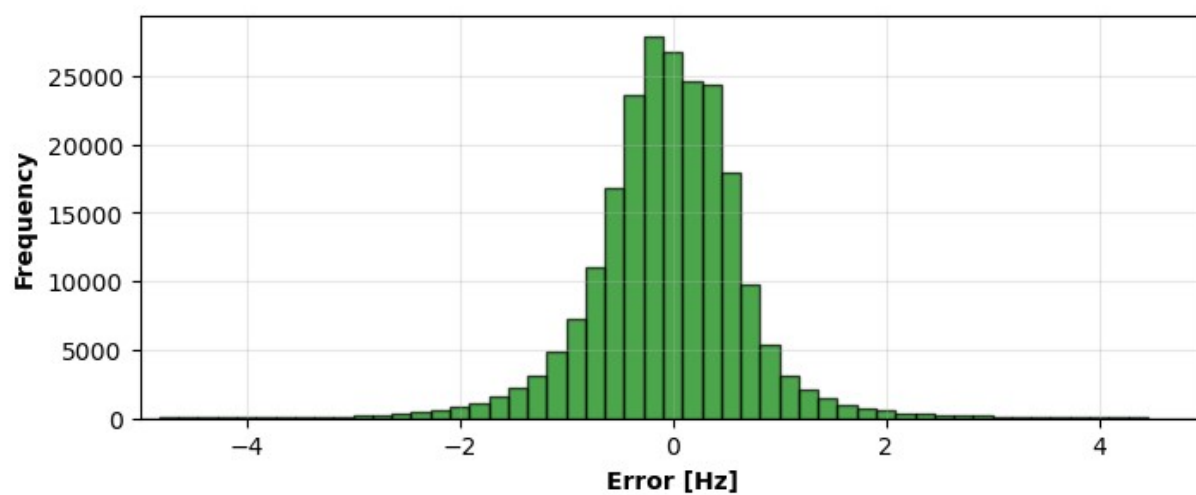
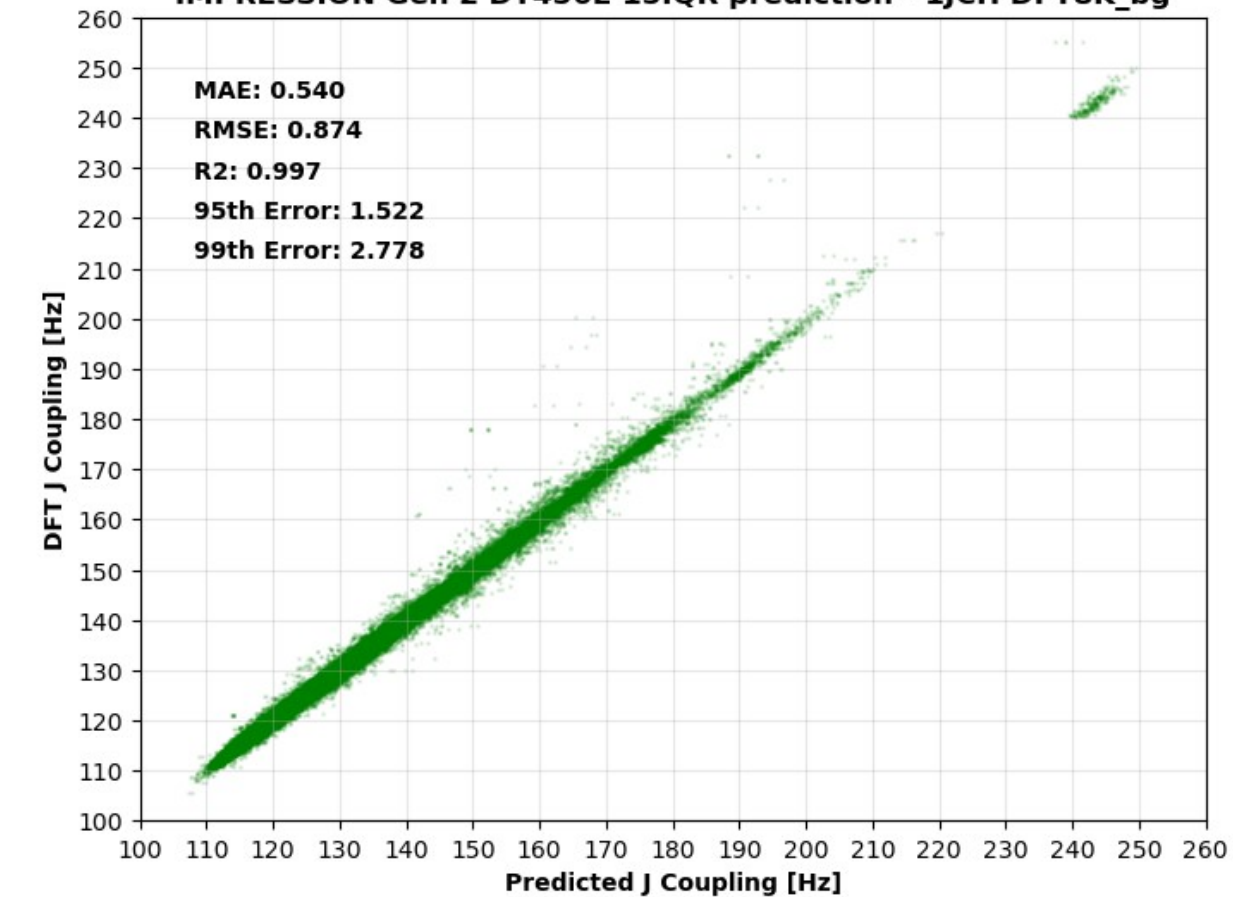


Data3



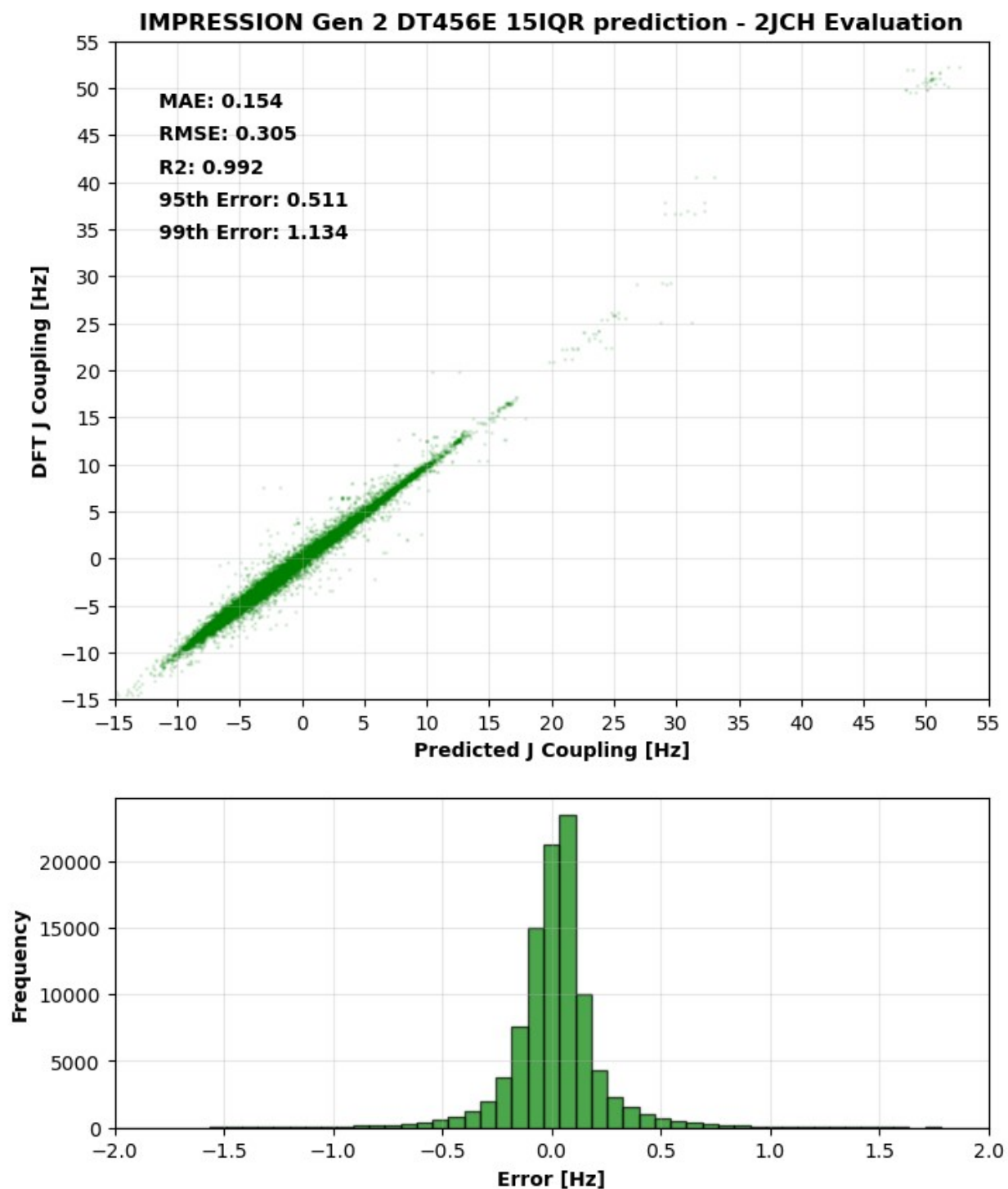
DFT8K\_bg

### IMPRESSION Gen 2 DT456E 15IQR prediction - 1JCH DFT8K\_bg

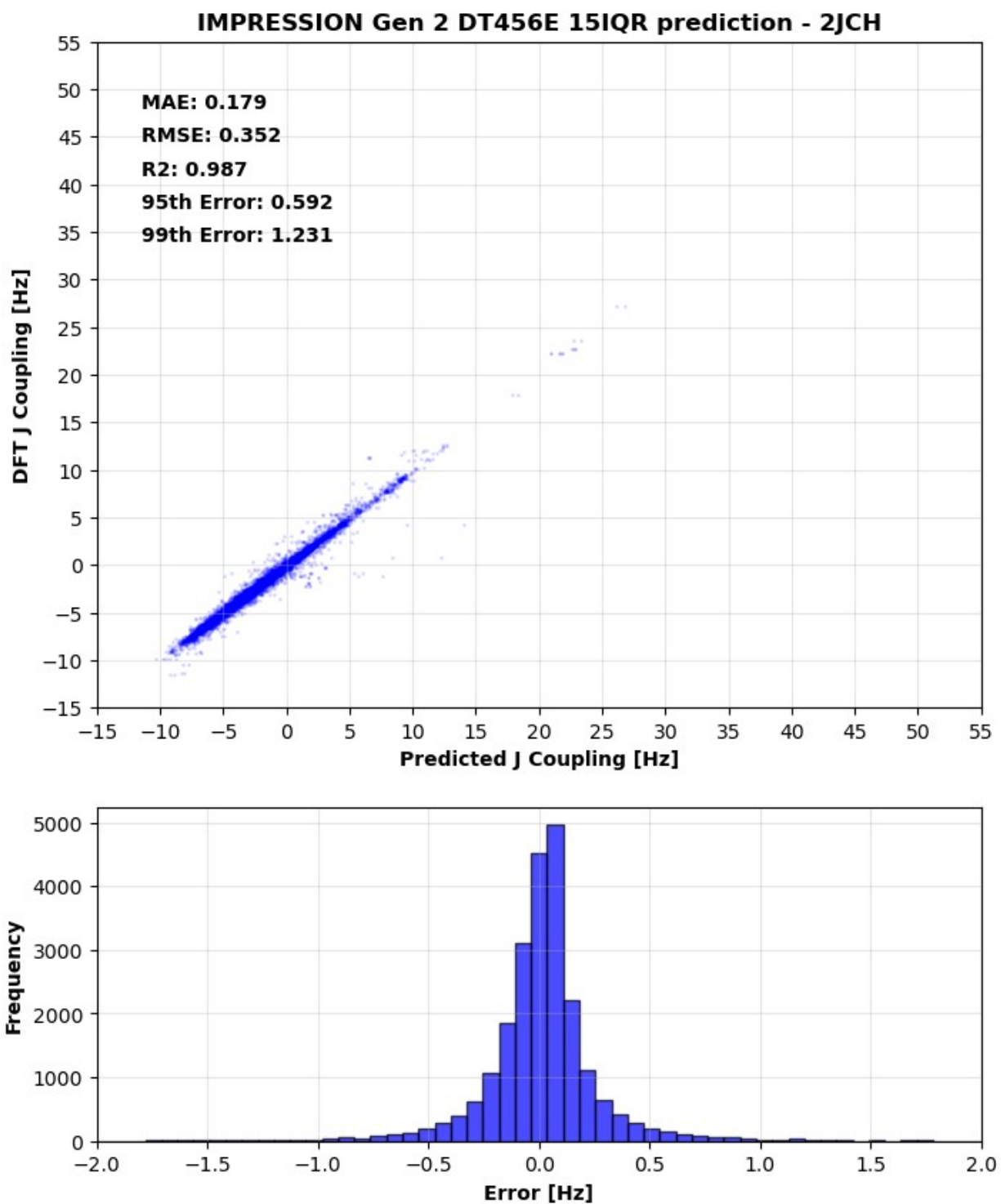


## S2.2.2 $^2J_{CH}$

Holdout

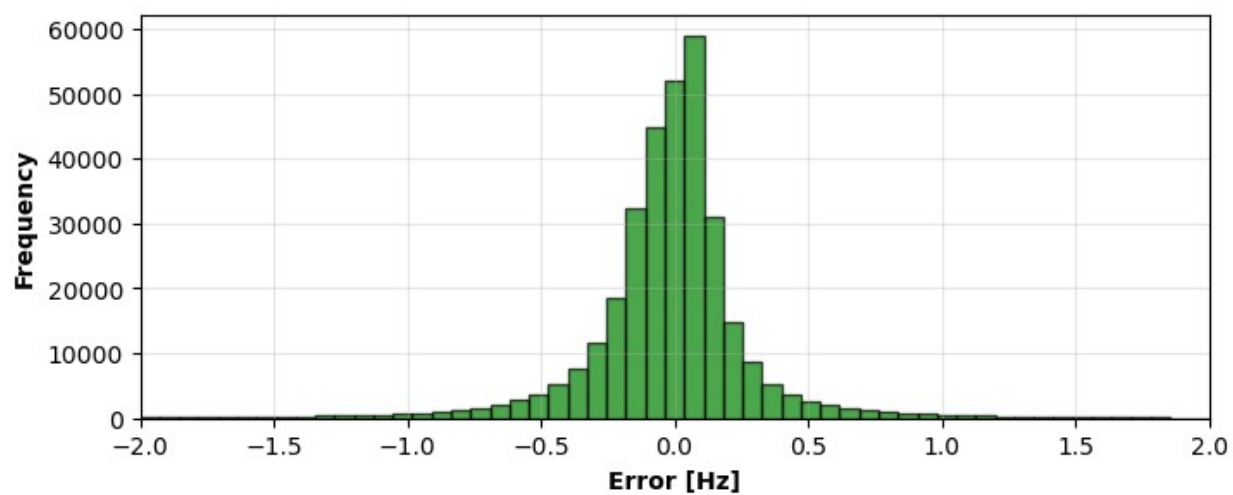
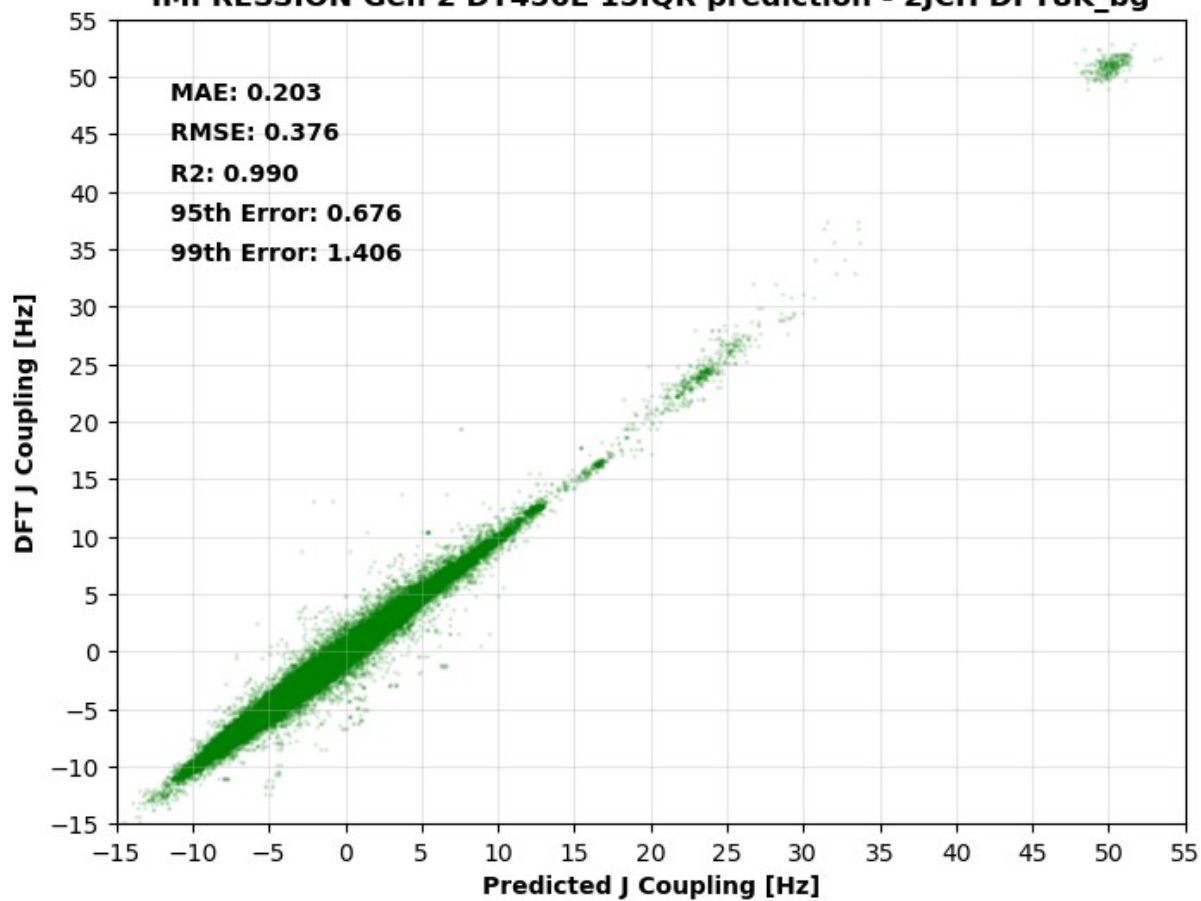


Data3



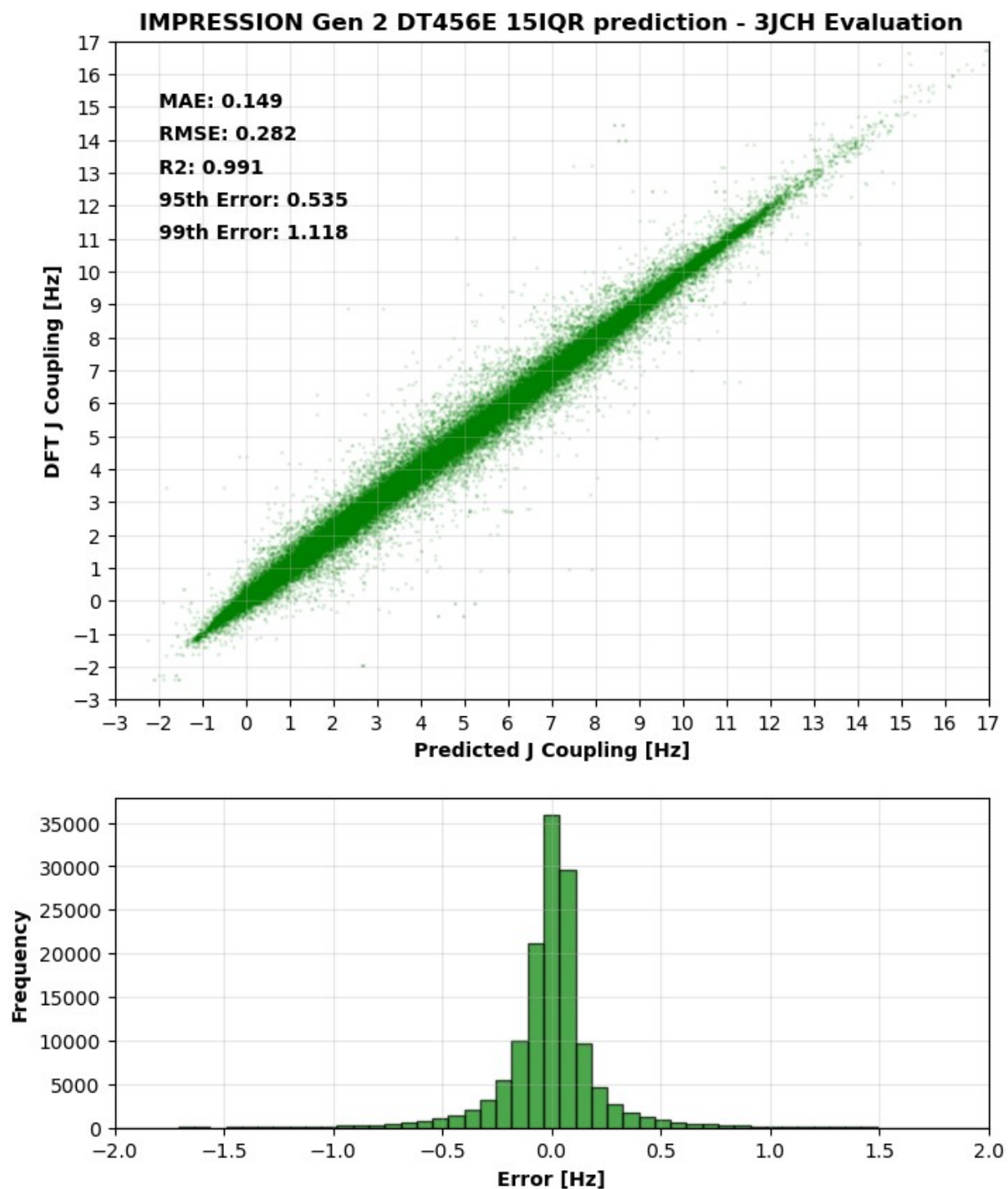
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 2JCH DFT8K\_bg**

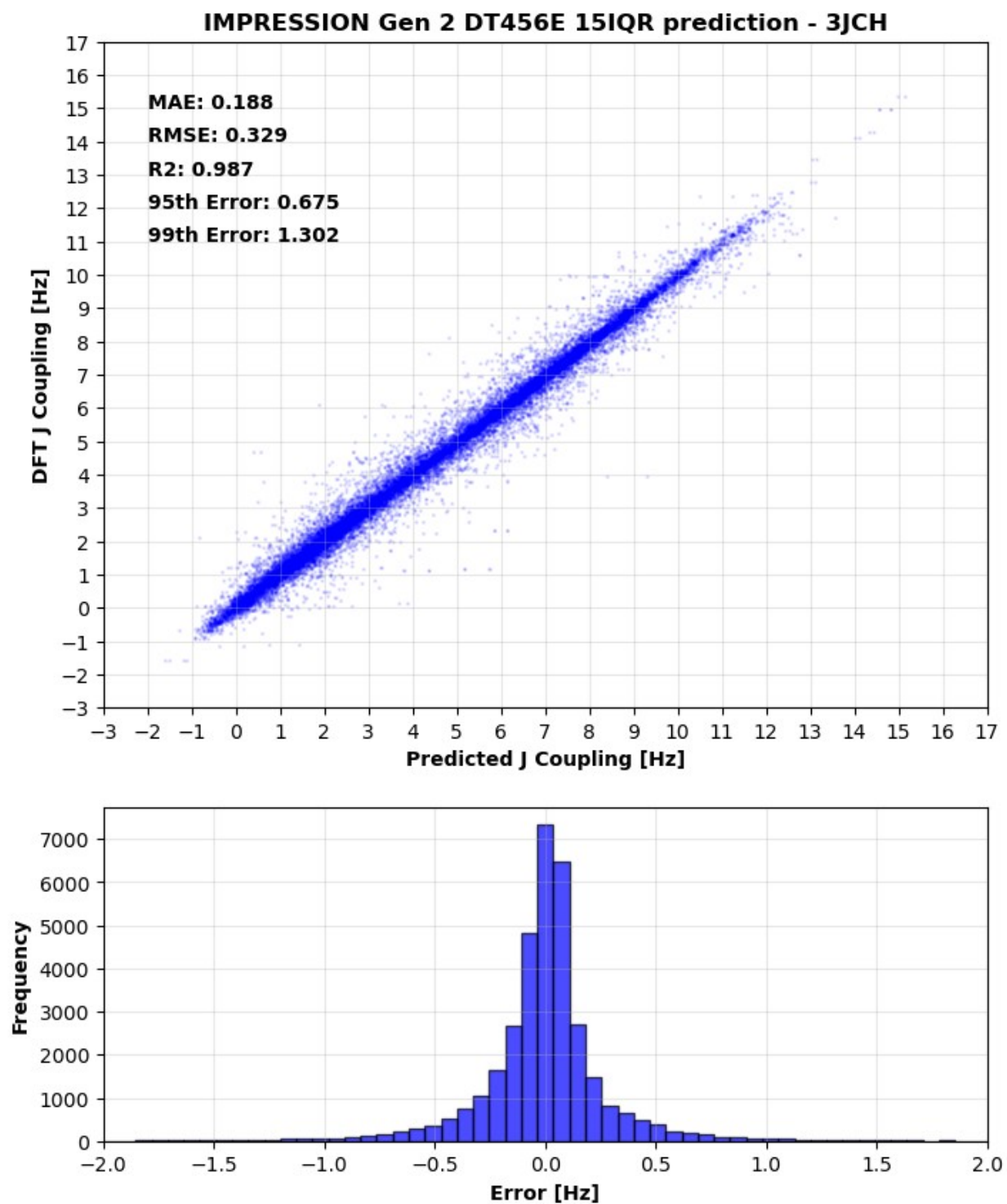


### S2.2.3 $^3J_{CH}$

Holdout

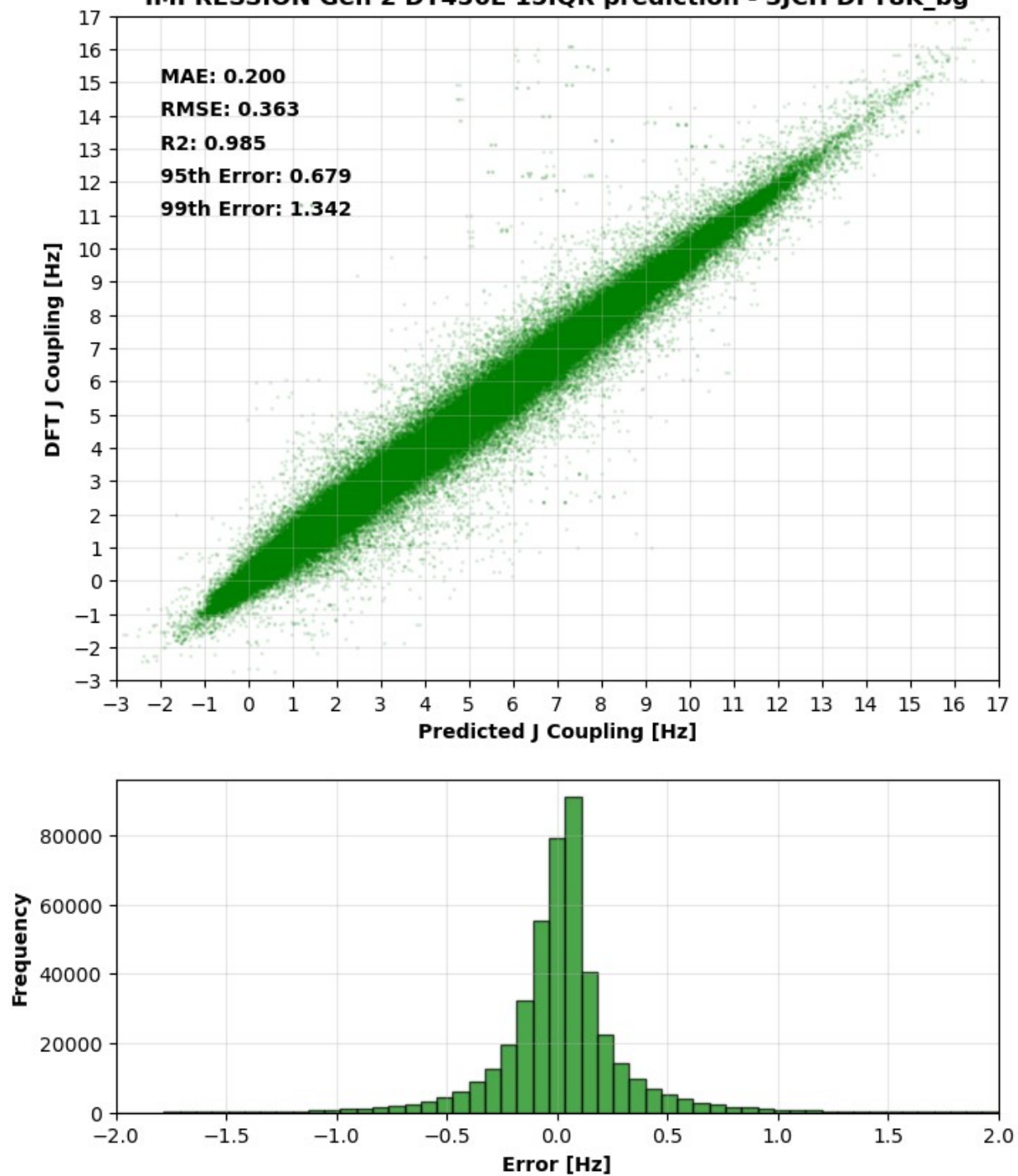


Data3



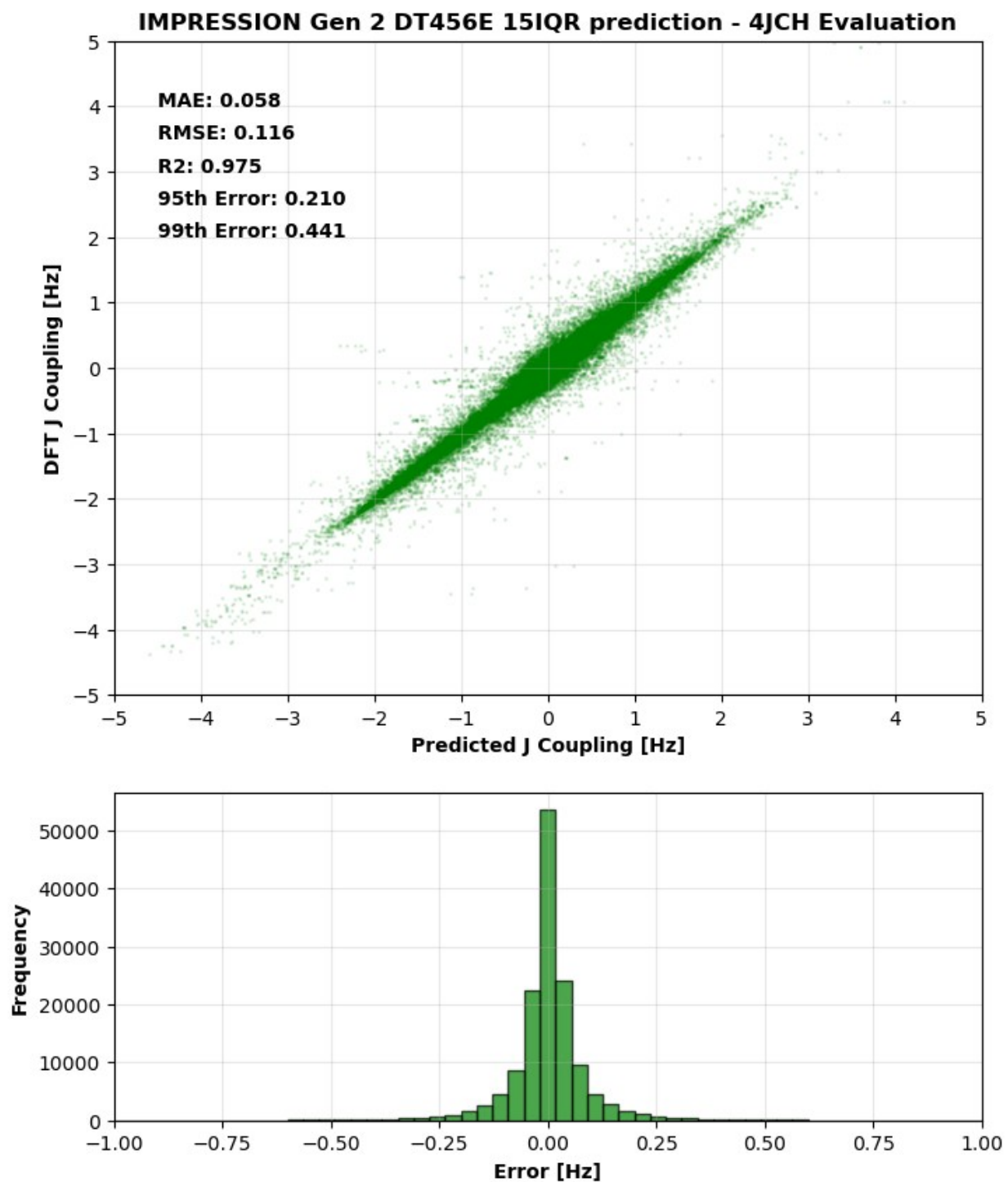
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 3JCH DFT8K\_bg**

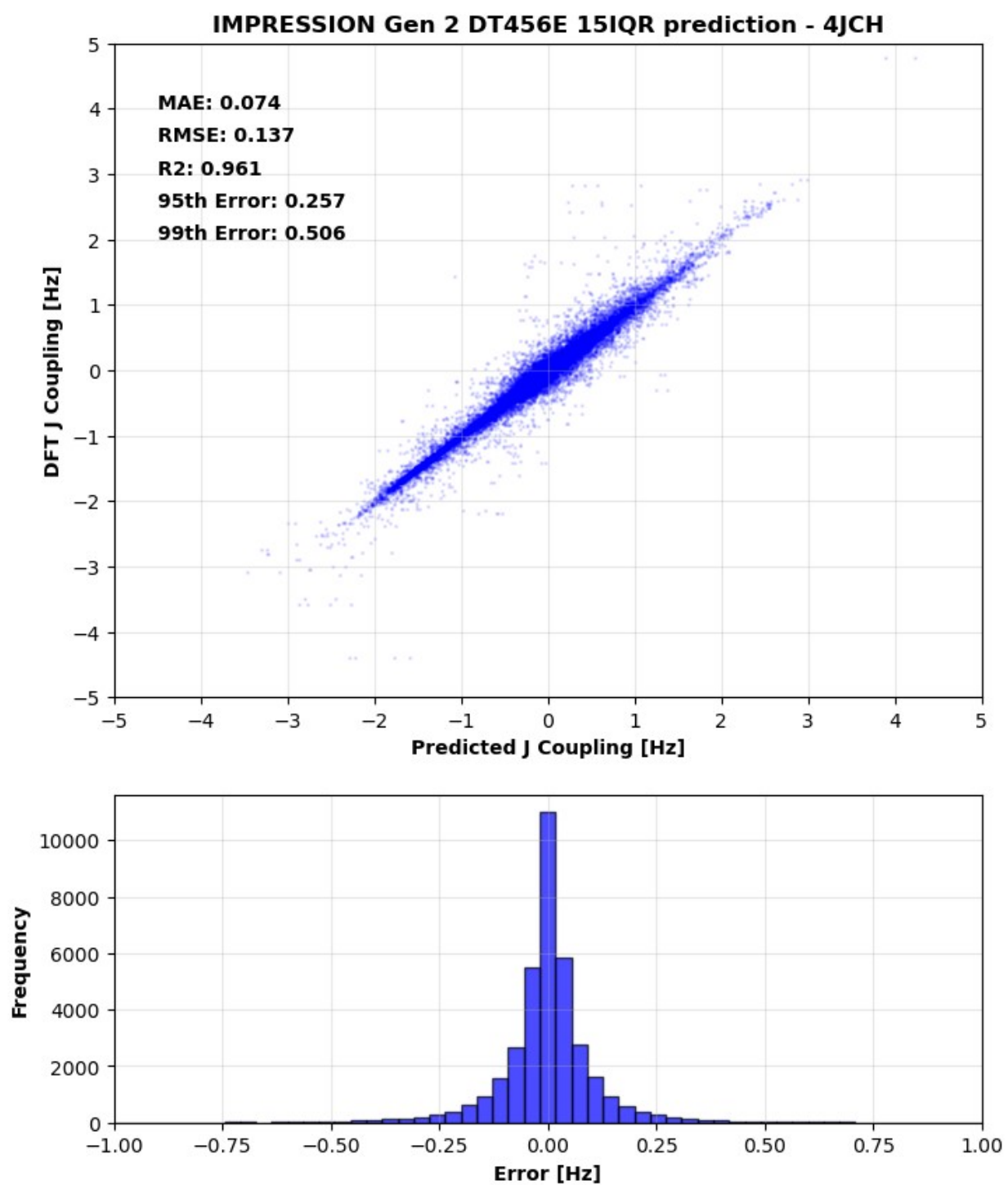


## S2.2.4 $^4J_{CH}$

Holdout

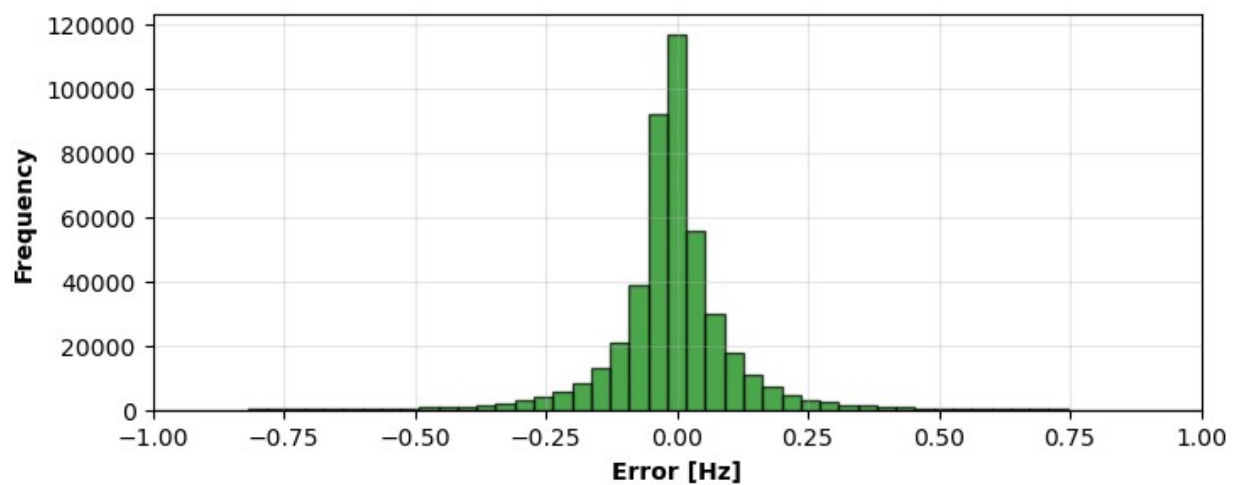
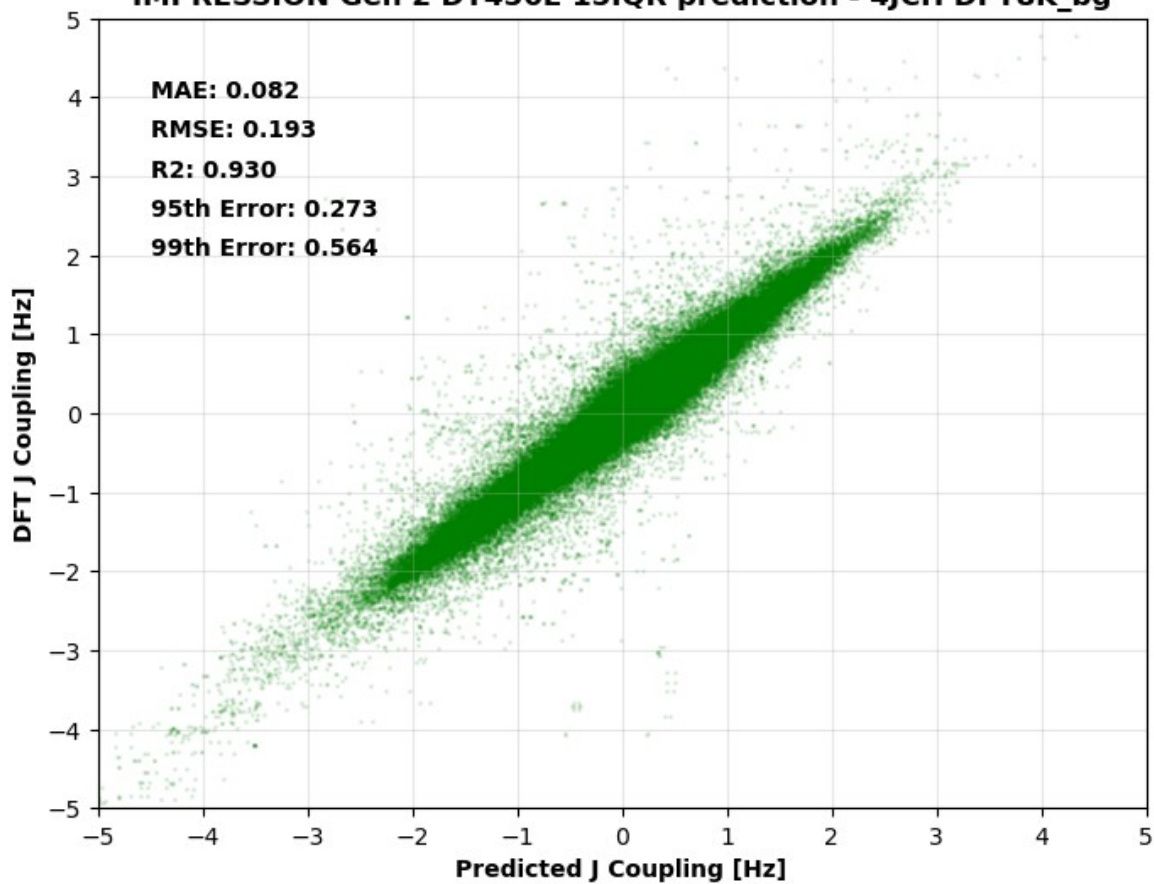


Data3



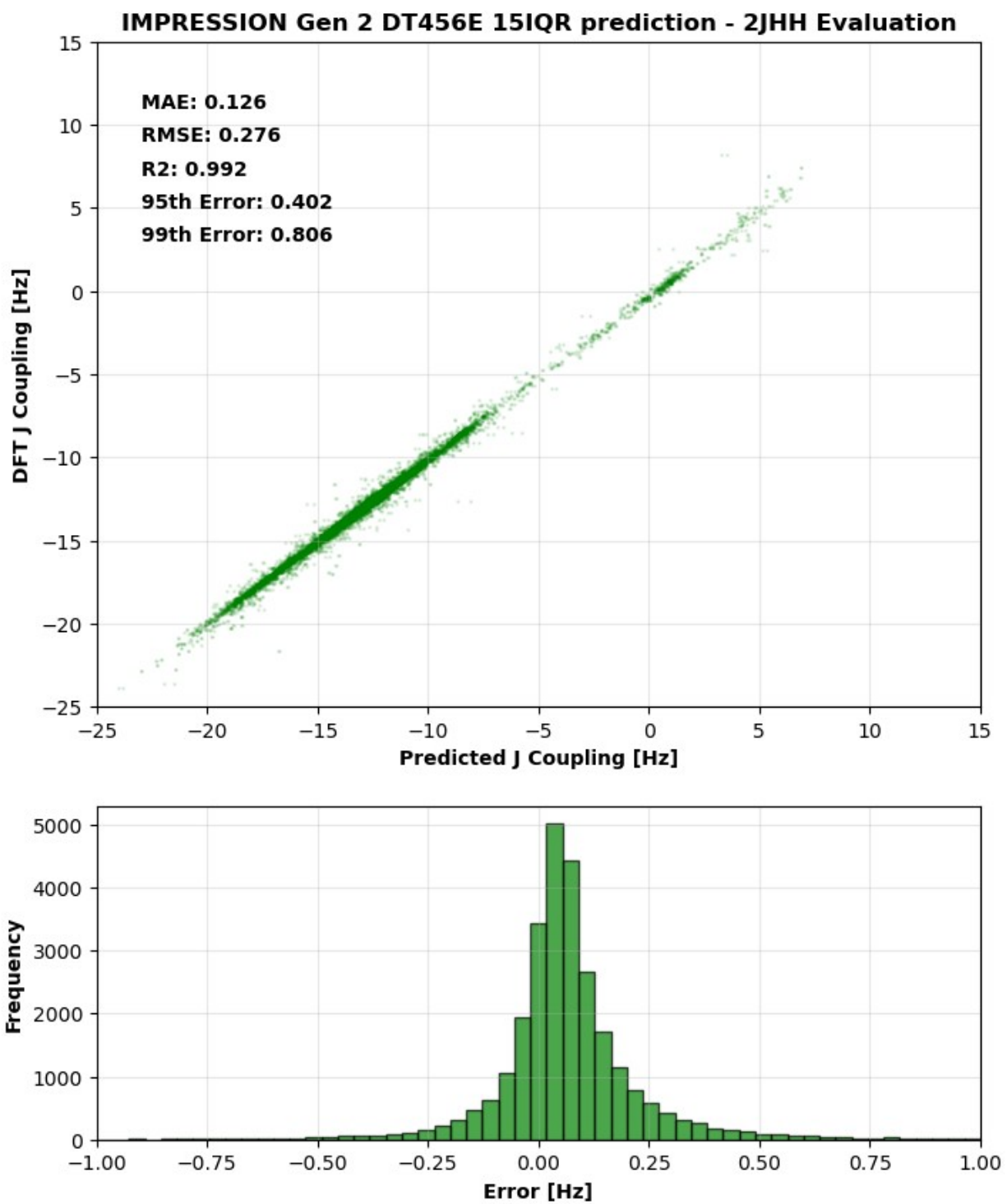
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 4JCH DFT8K\_bg**

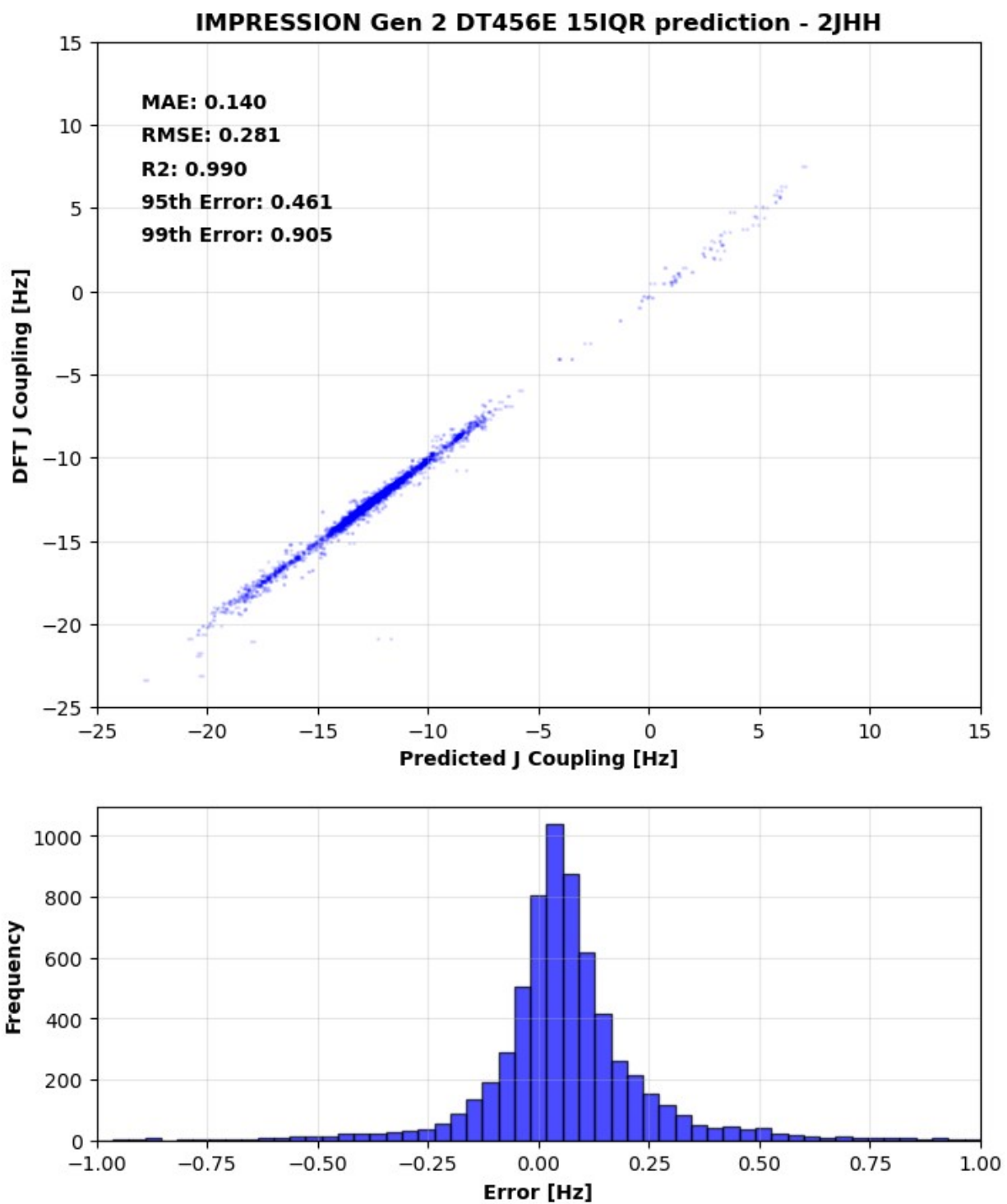


## S2.2.5 $^2J_{HH}$

Holdout

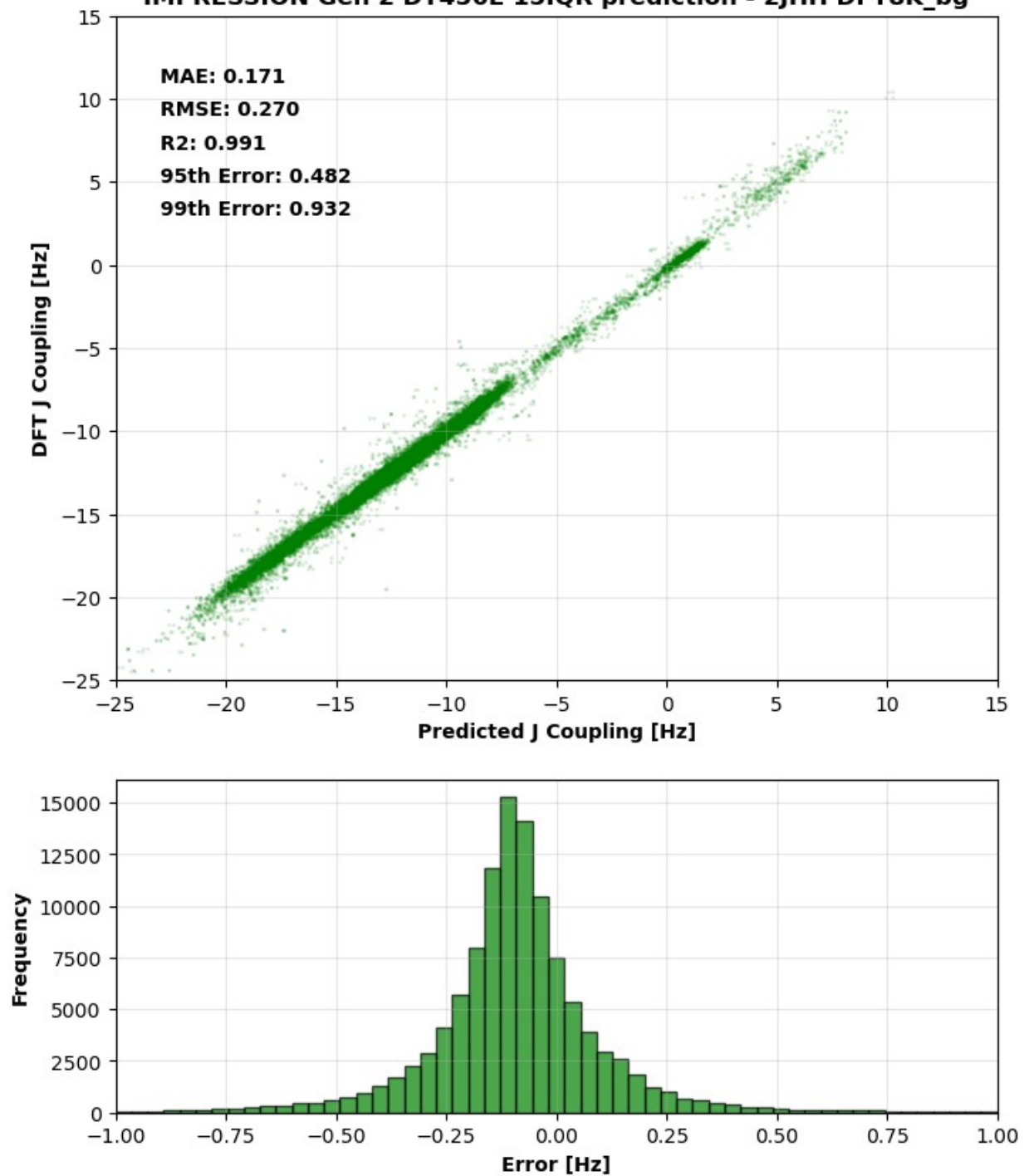


Data3



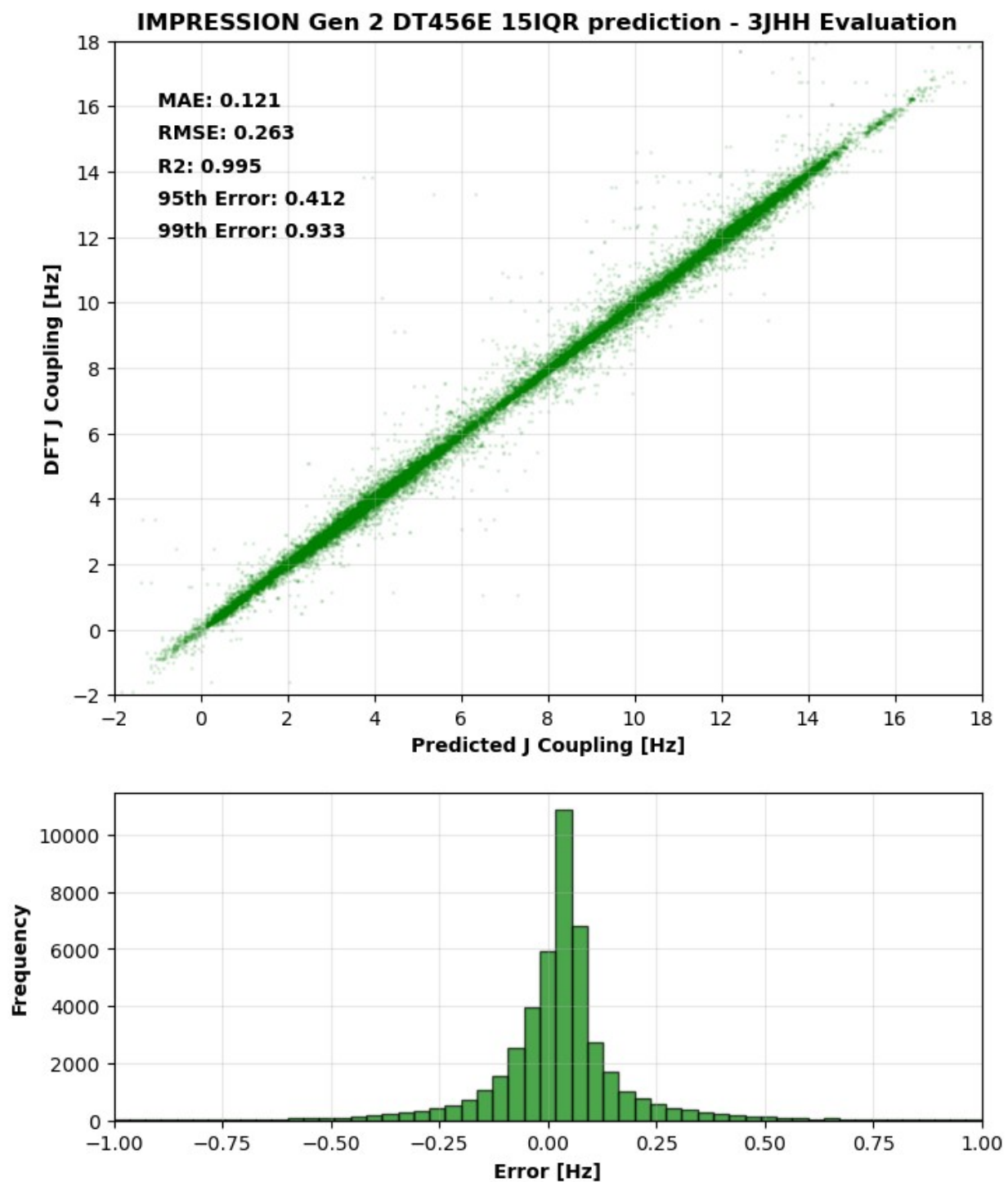
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 2JHH DFT8K\_bg**

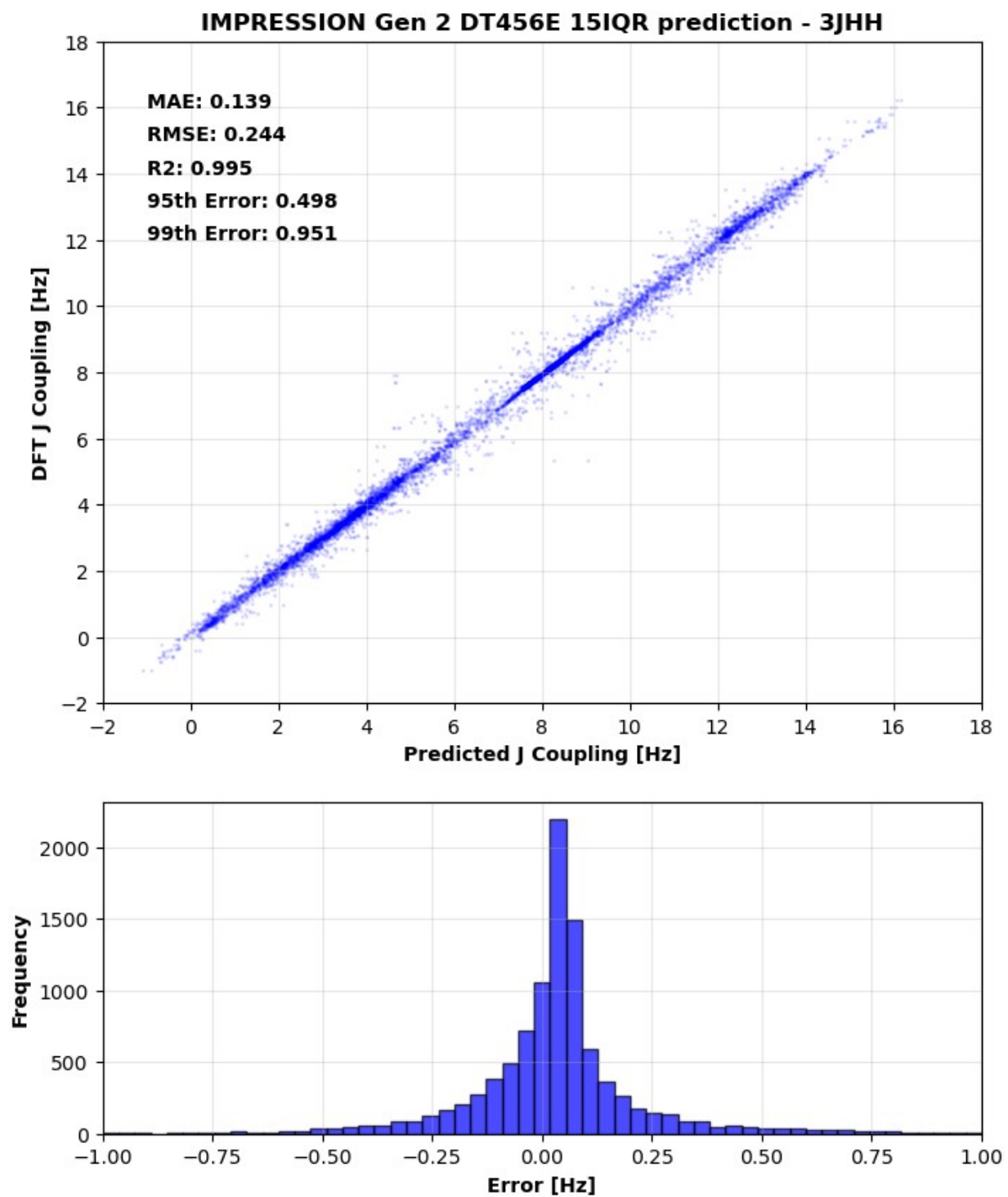


## S2.2.6 $^3J_{HH}$

Holdout

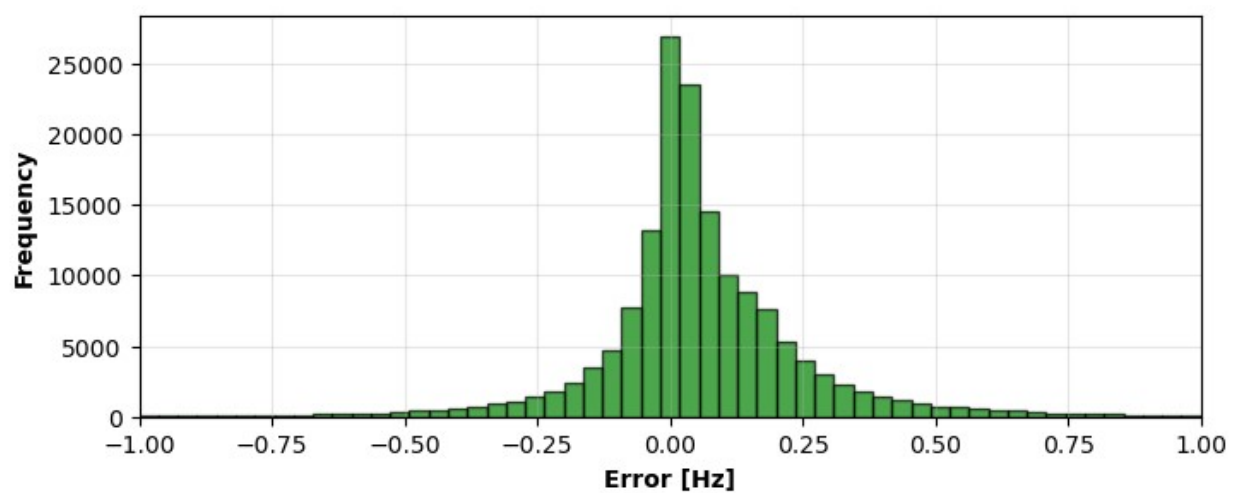
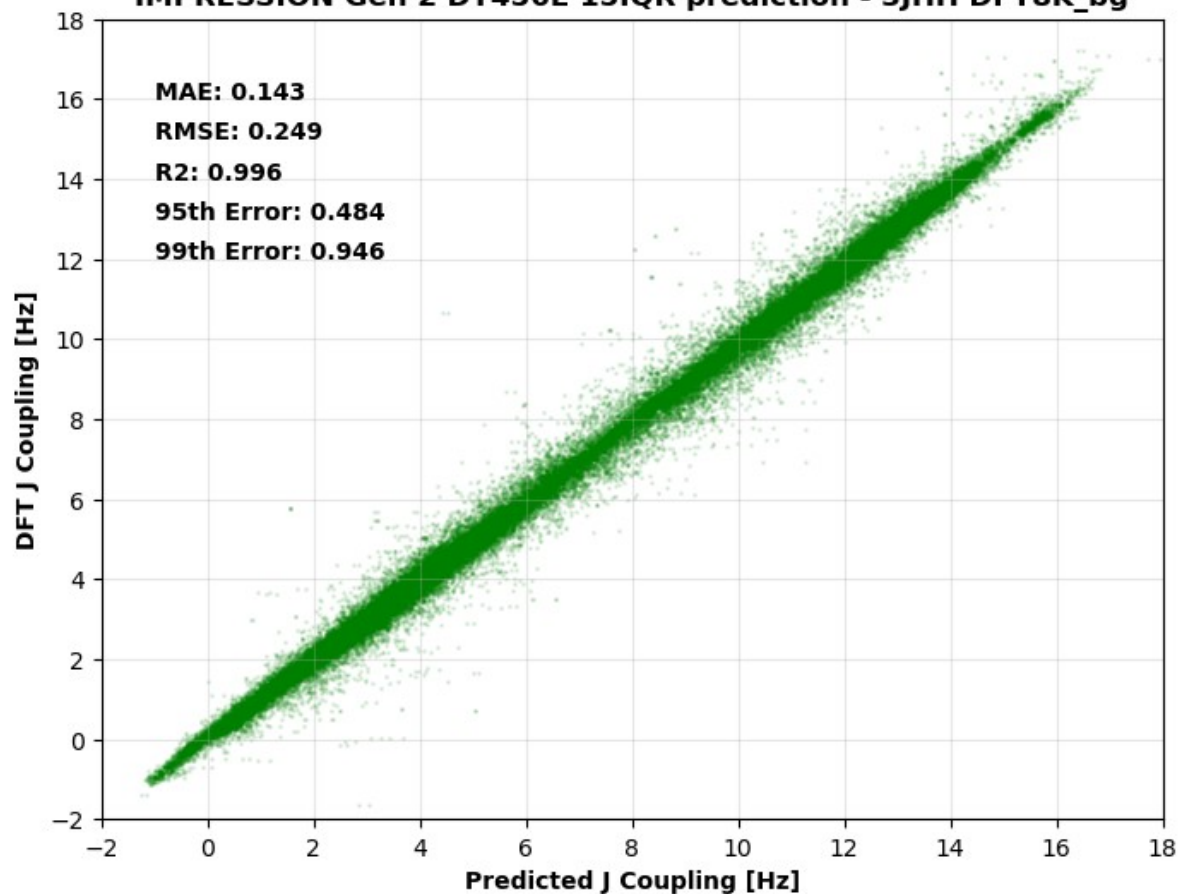


Data3



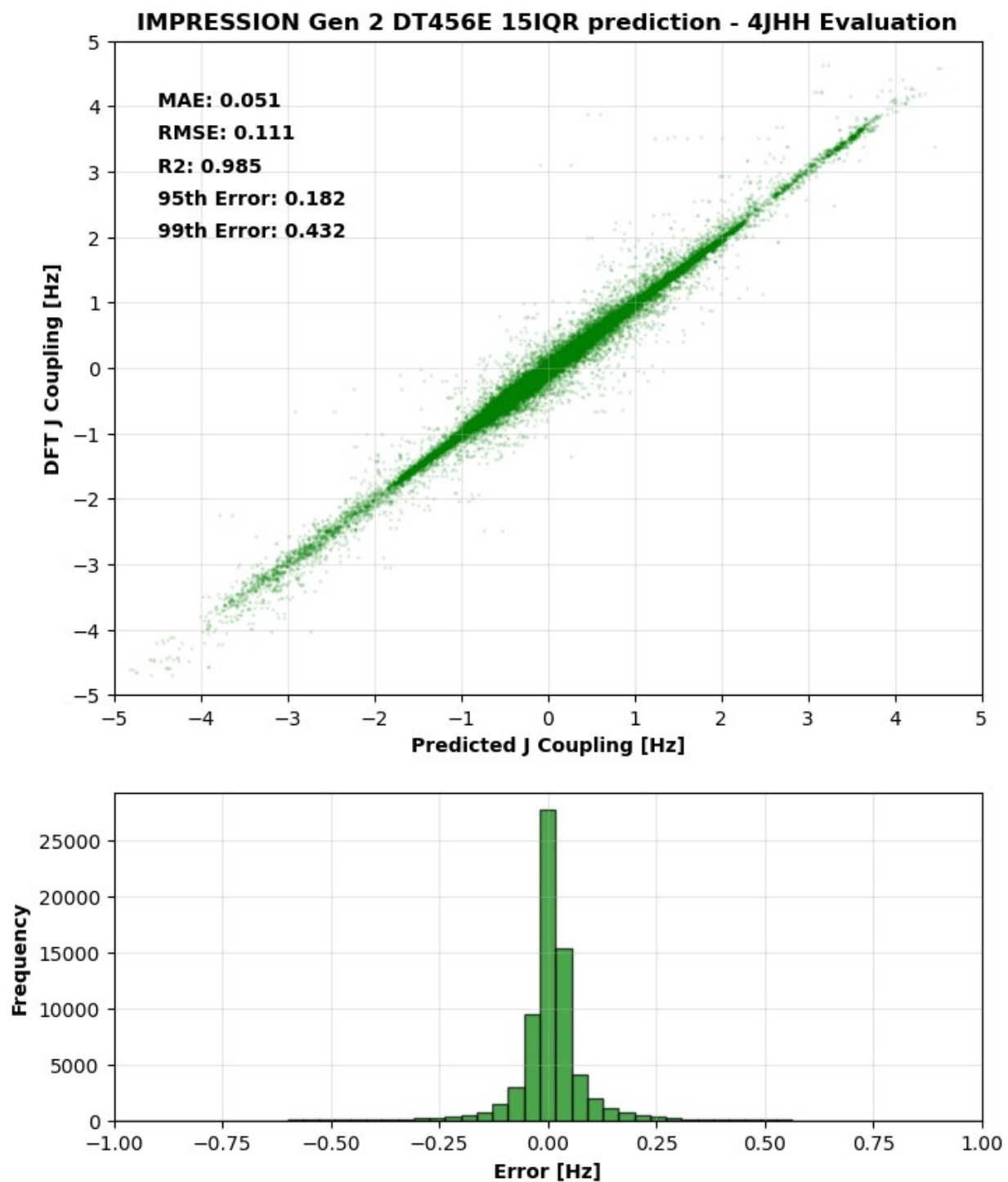
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 3JHH DFT8K\_bg**

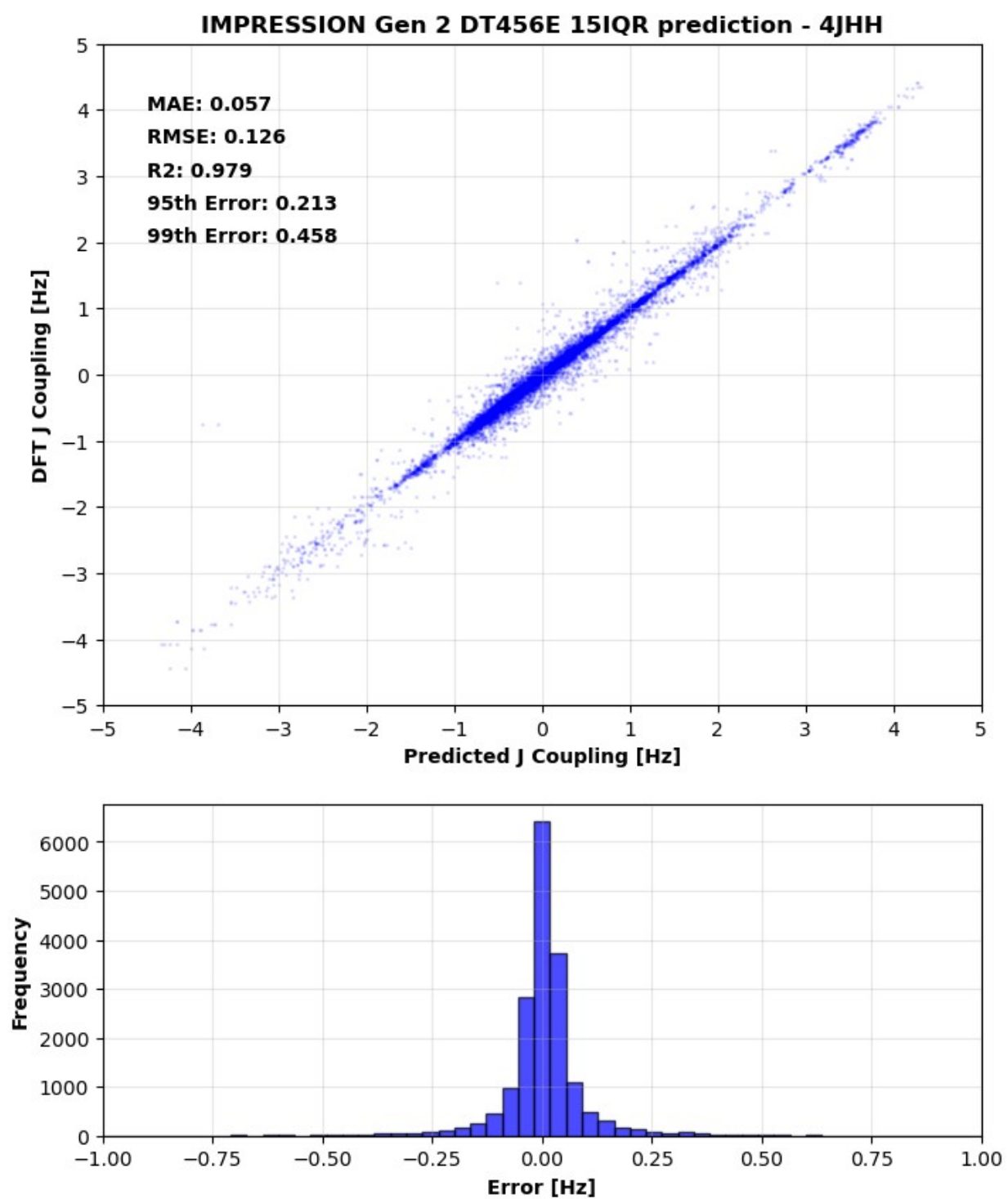


## S2.2.7 $^4J_{HH}$

Holdout

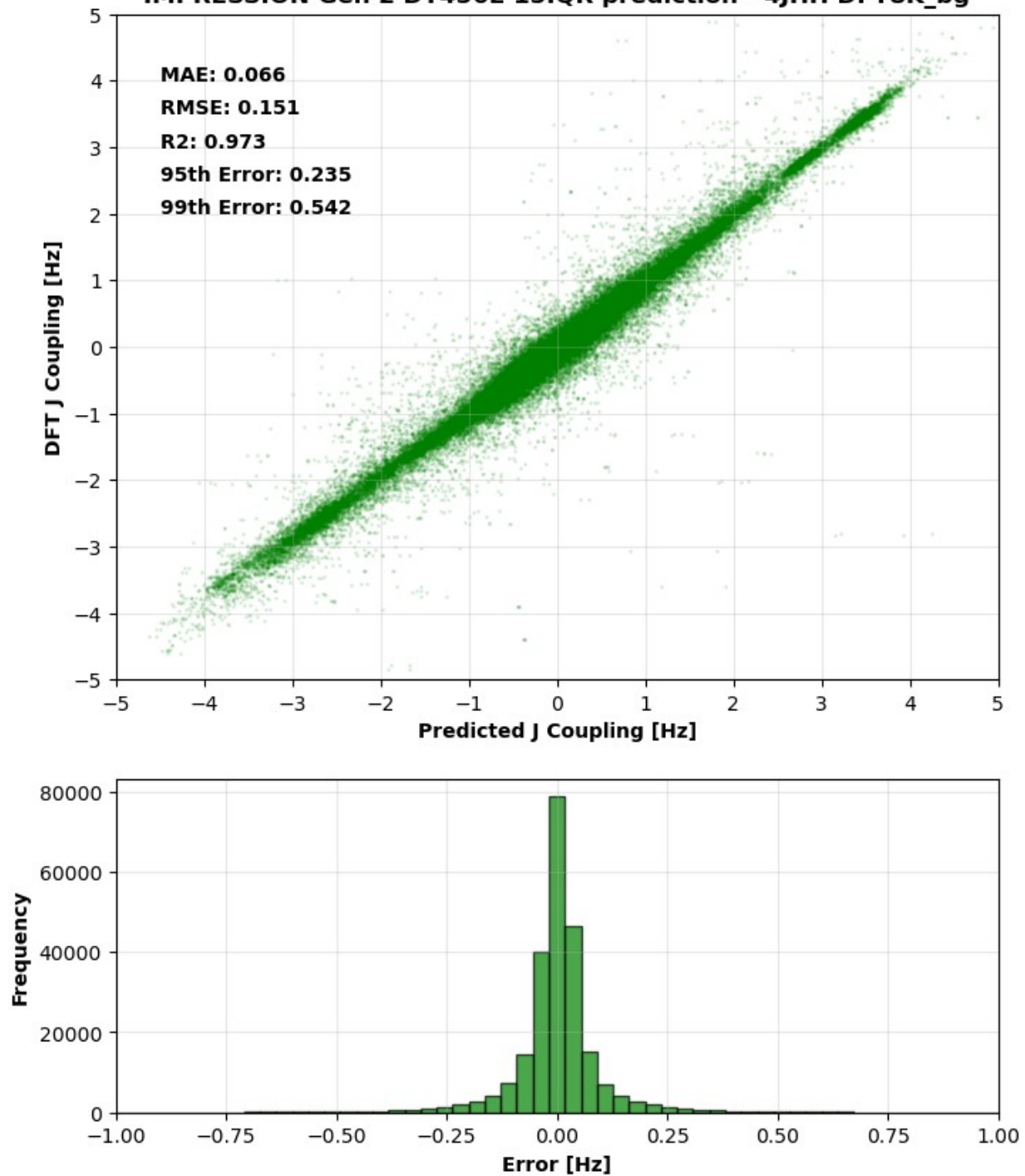


Data3



DFT8K\_bg

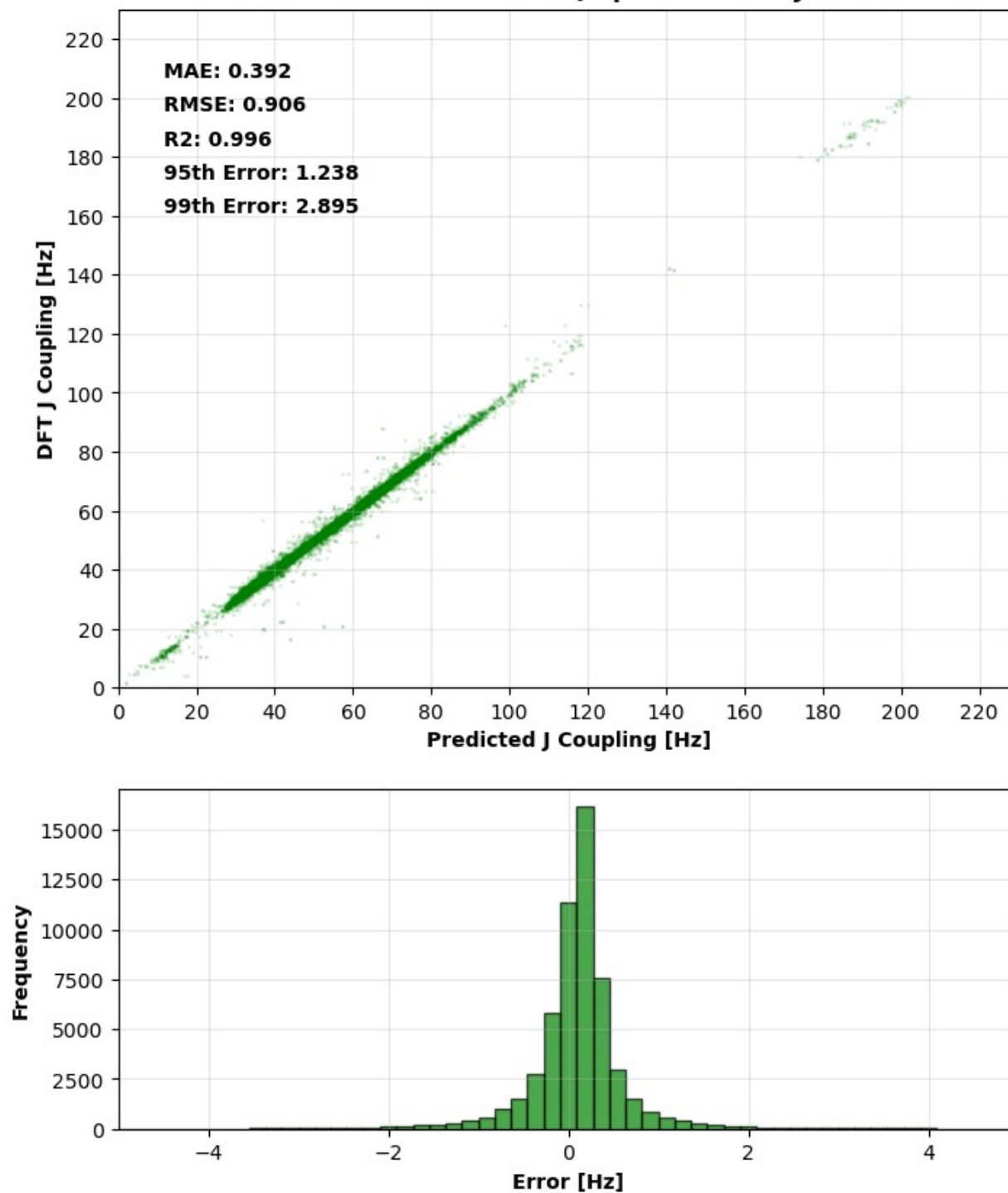
**IMPRESSION Gen 2 DT456E 15IQR prediction - 4JHH DFT8K\_bg**



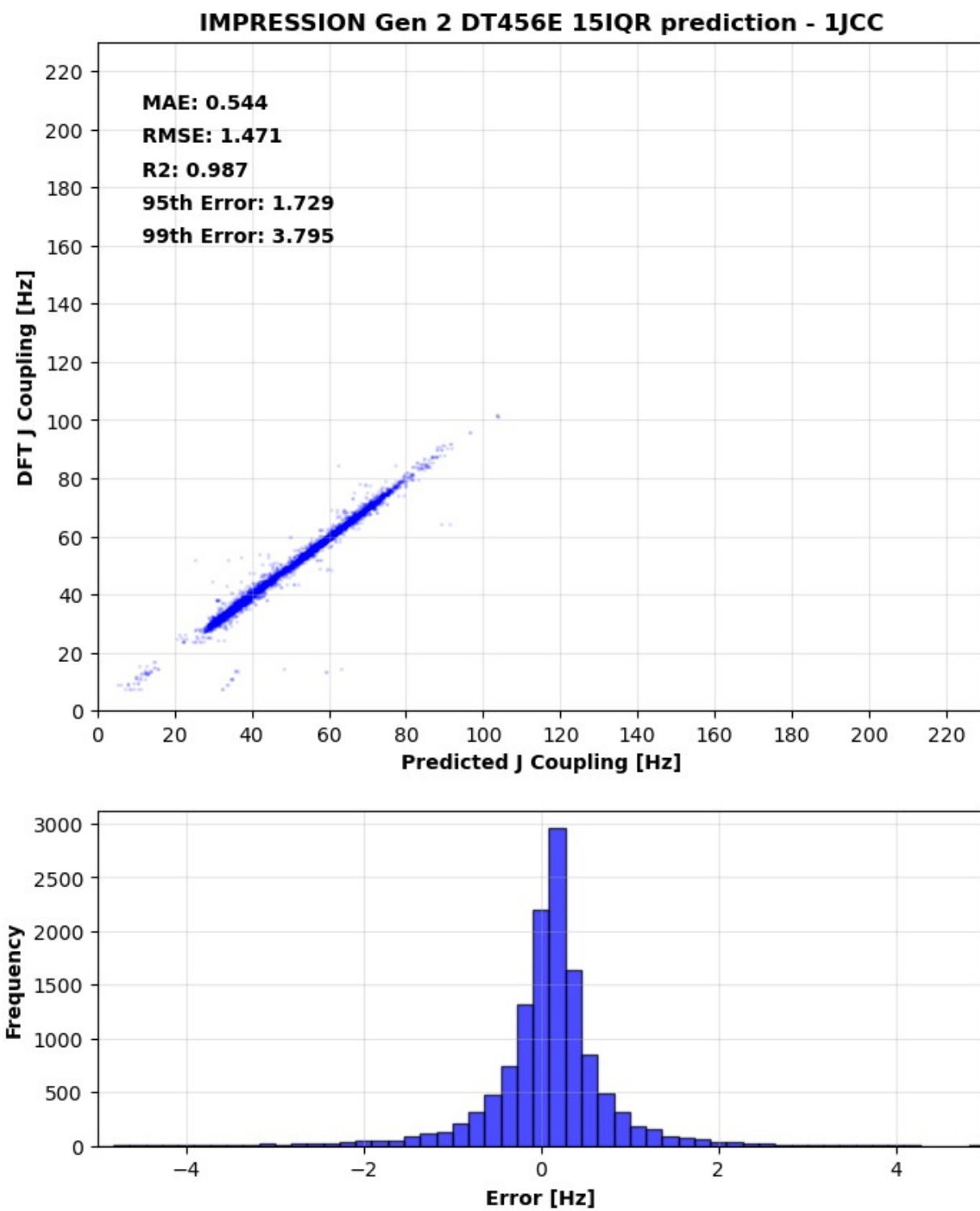
## S2.2.8 $^1J_{CC}$

Holdout

**IMPRESSION Gen 2 DT456E 151QR prediction -  $^1J_{CC}$  Evaluation**

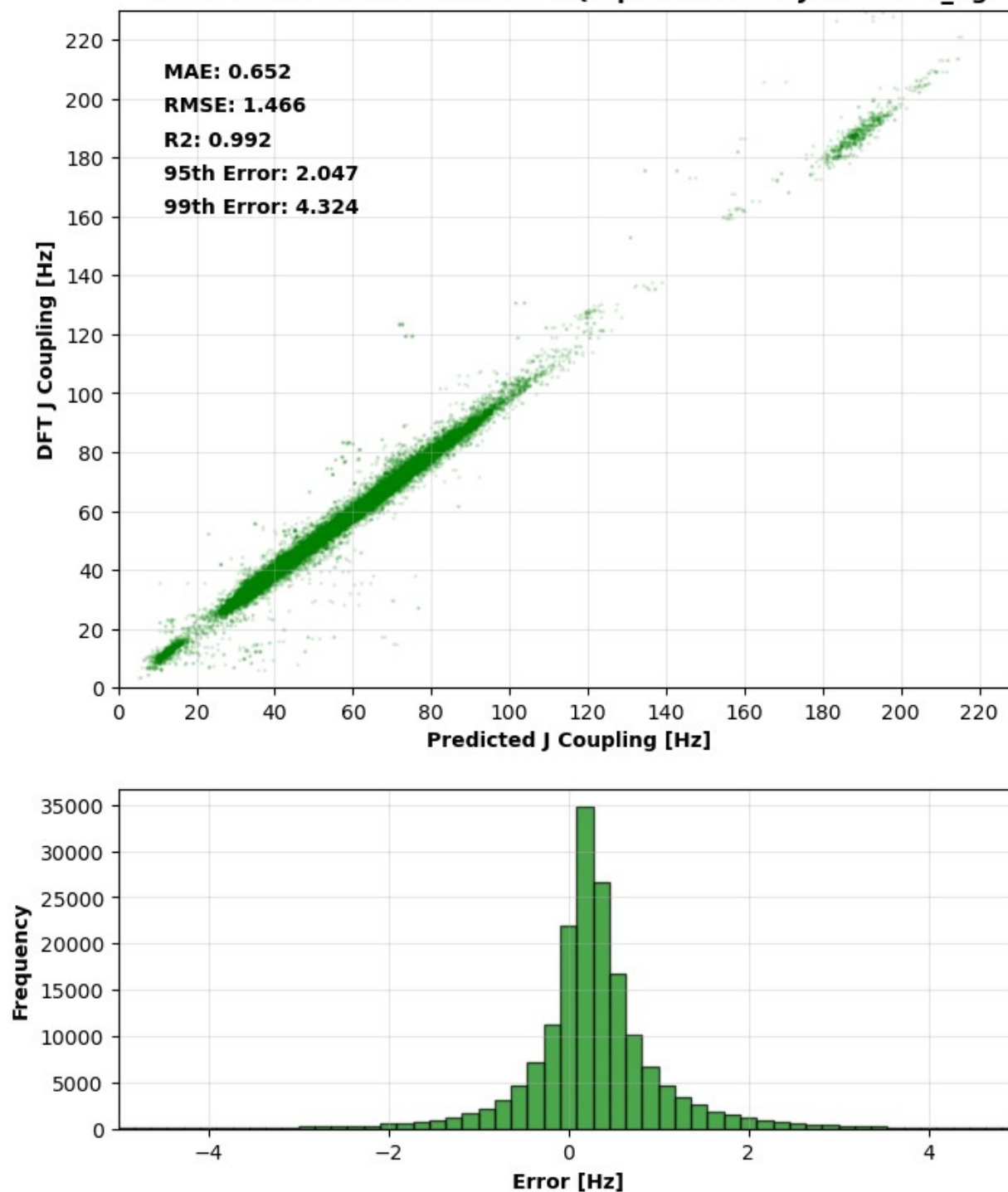


Data3



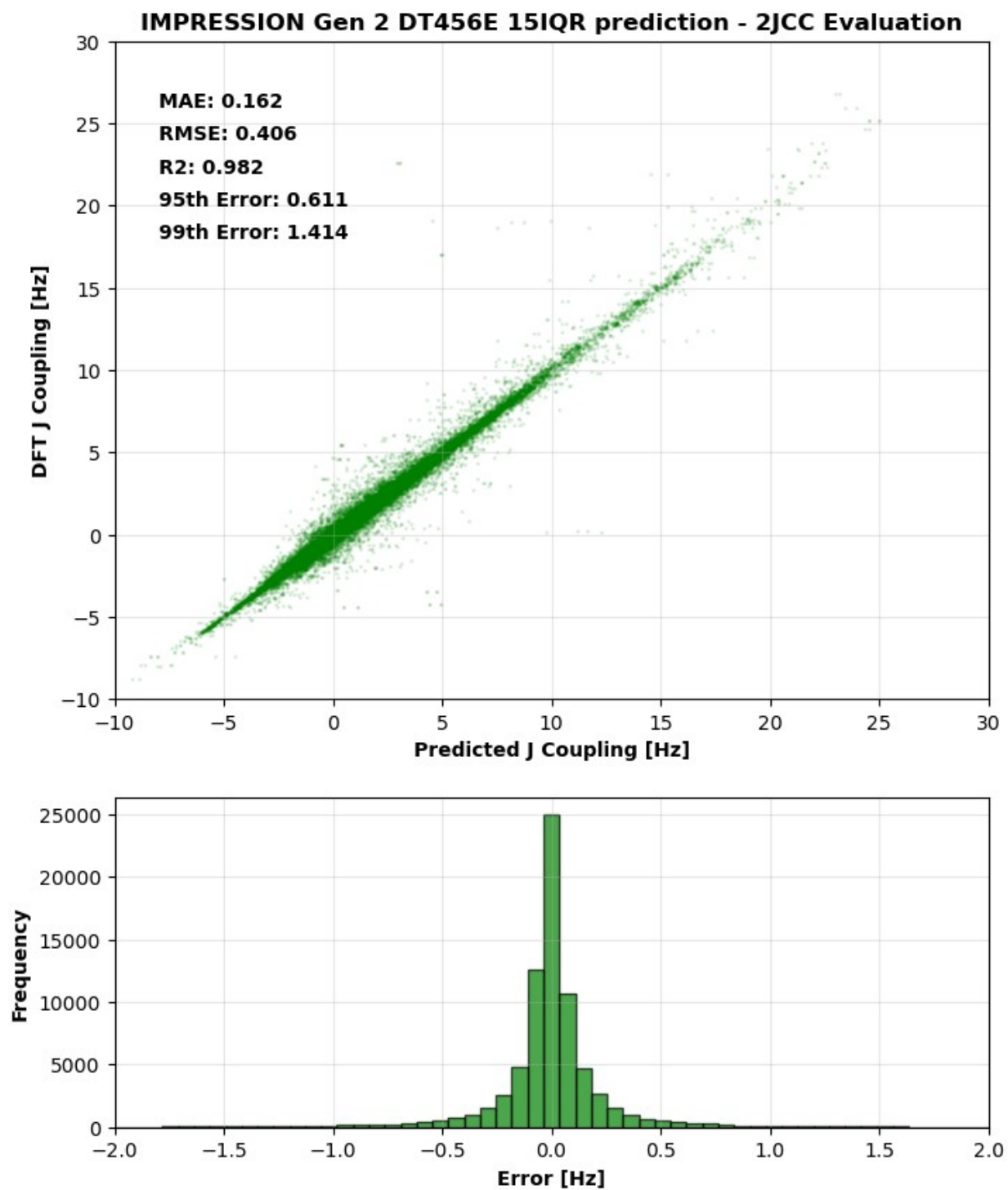
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 1JCC DFT8K\_bg**

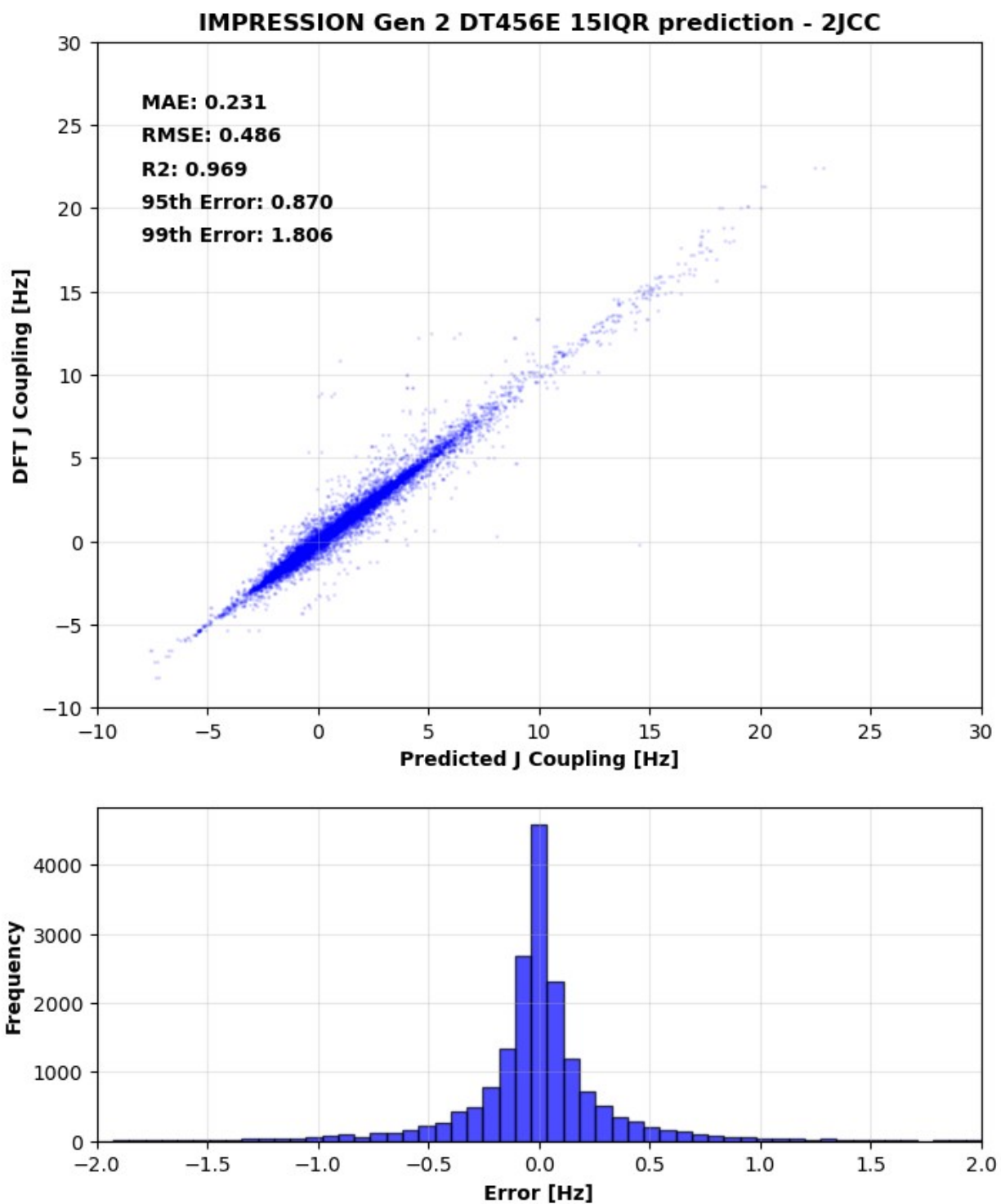


## S2.2.9 $^2J_{CC}$

Holdout

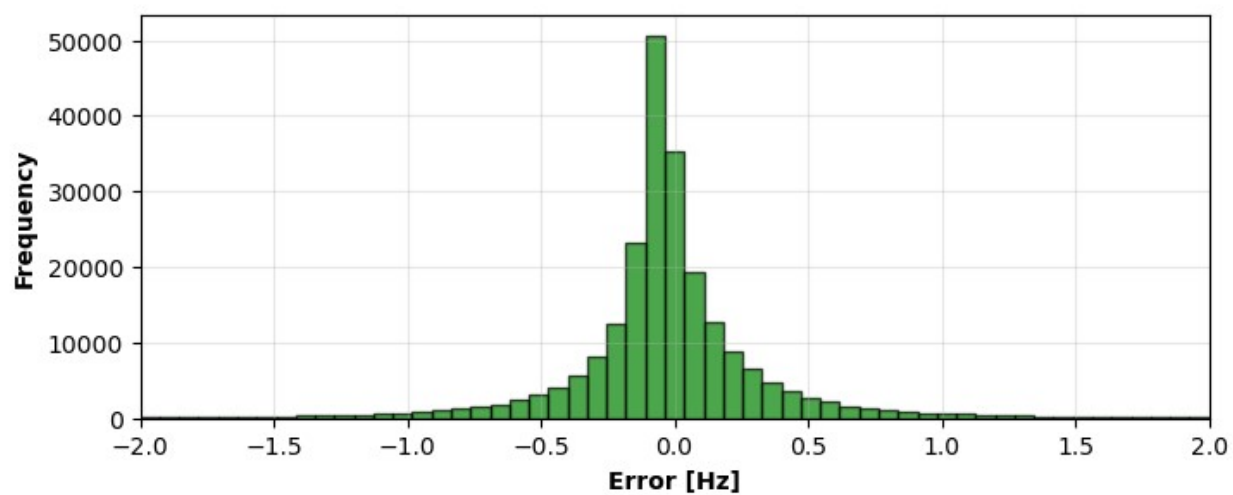
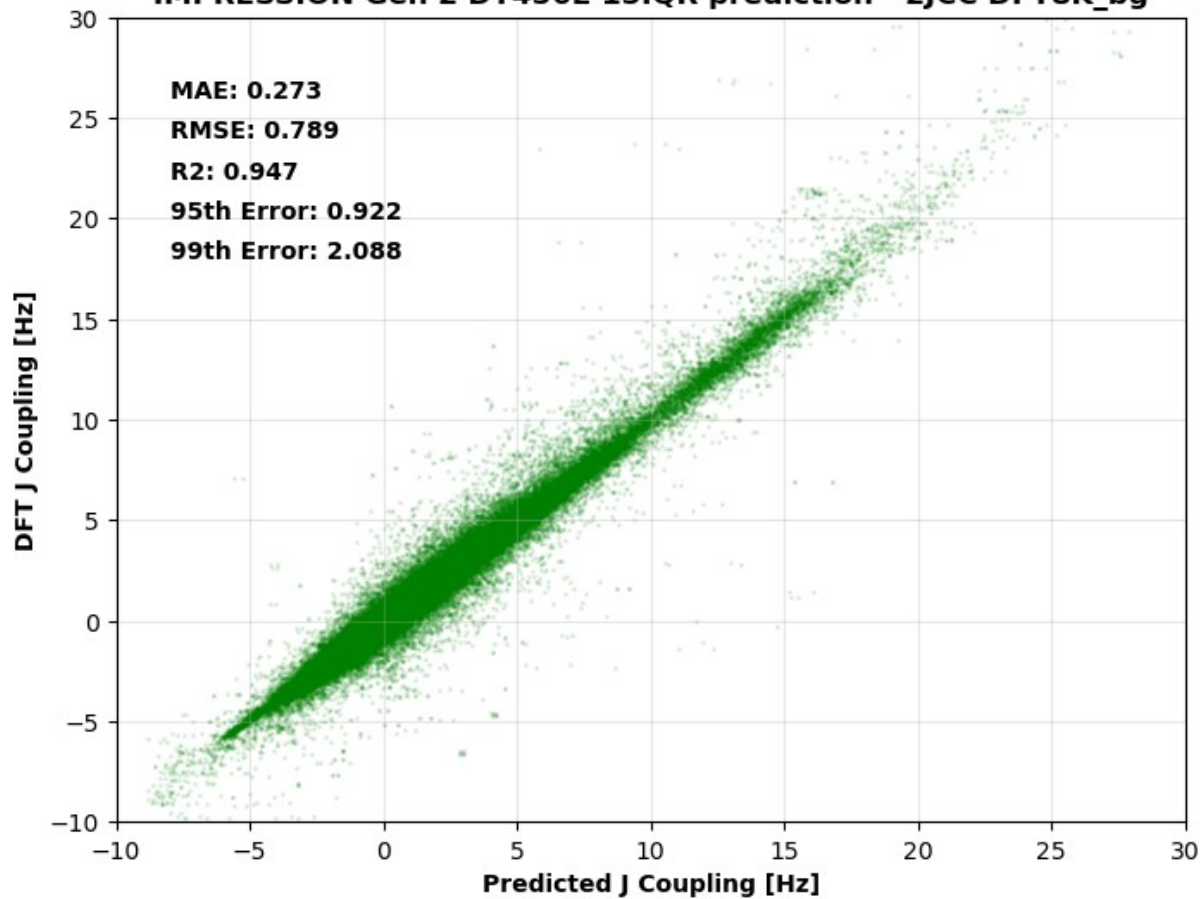


Data3



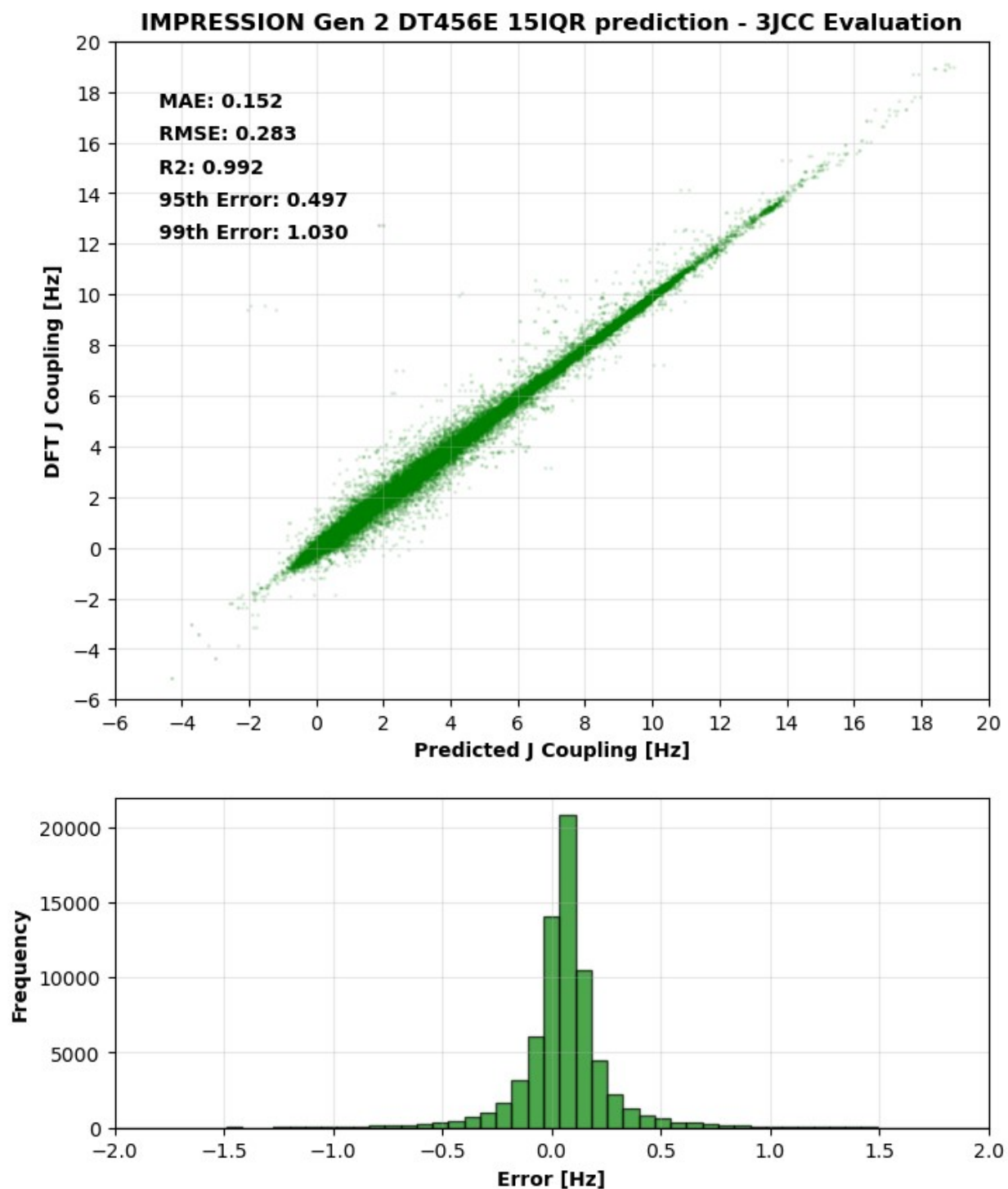
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 2JCC DFT8K\_bg**

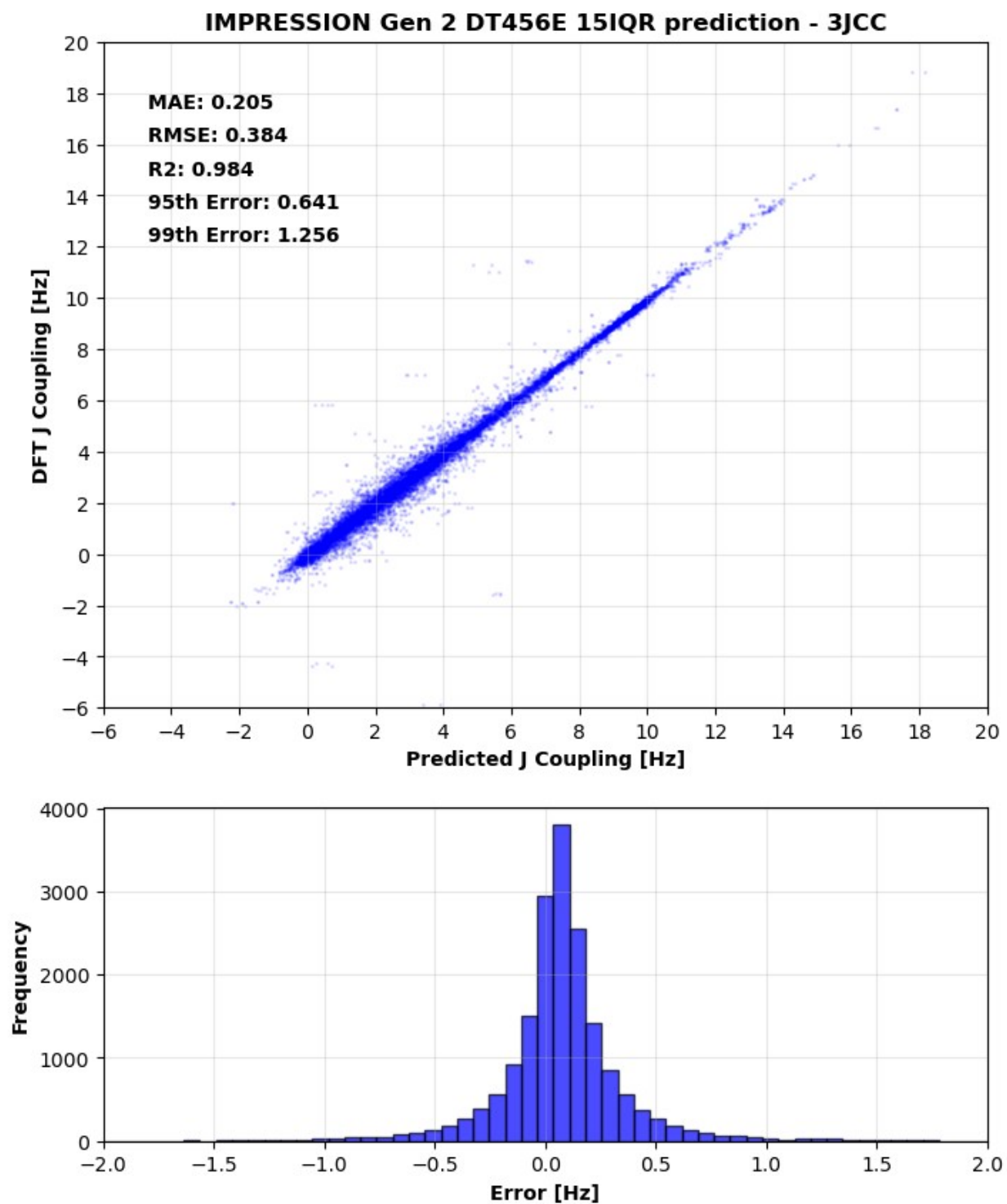


## S2.2.10 $^3J_{CC}$

Holdout

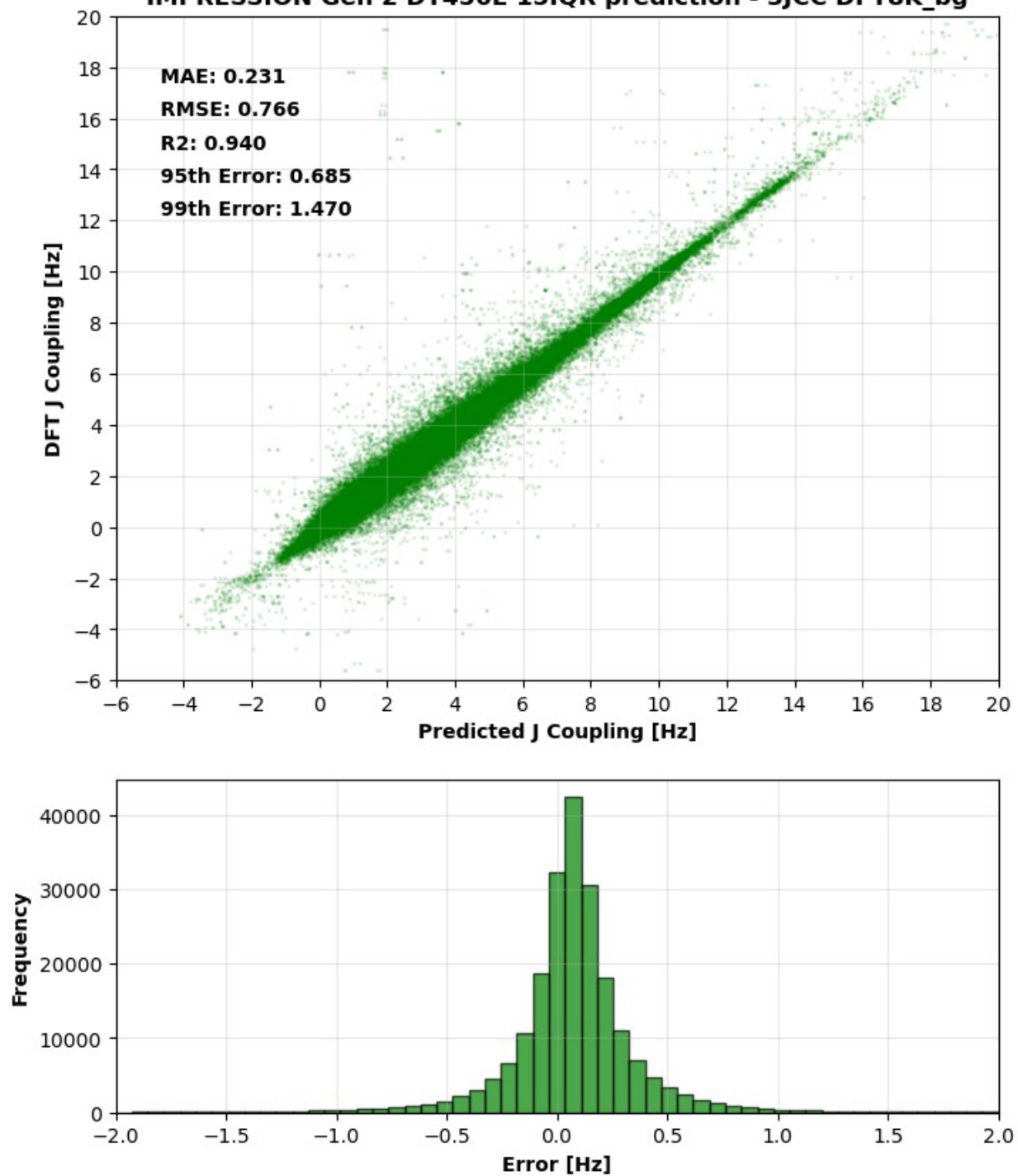


Data3



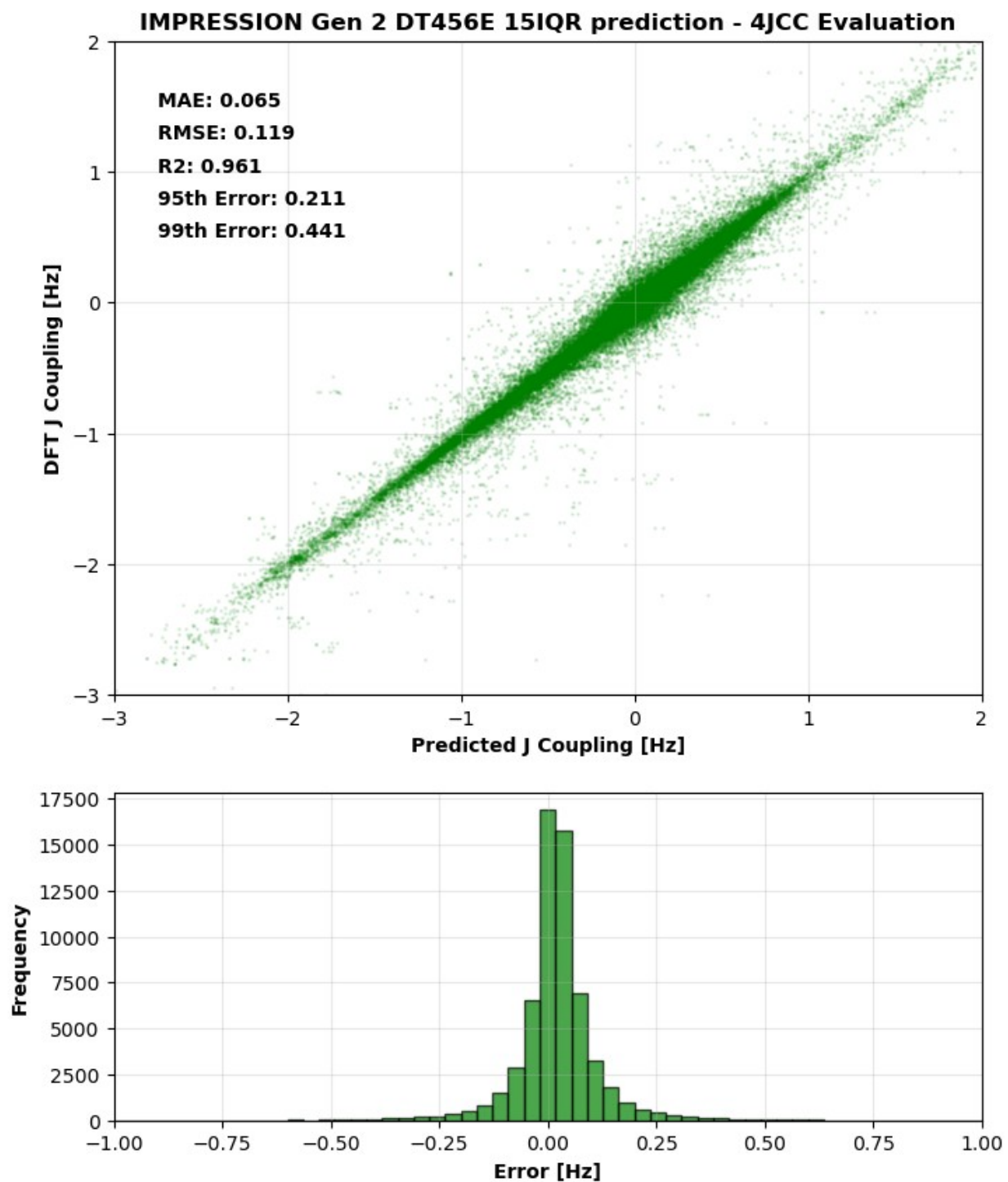
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 3JCC DFT8K\_bg**

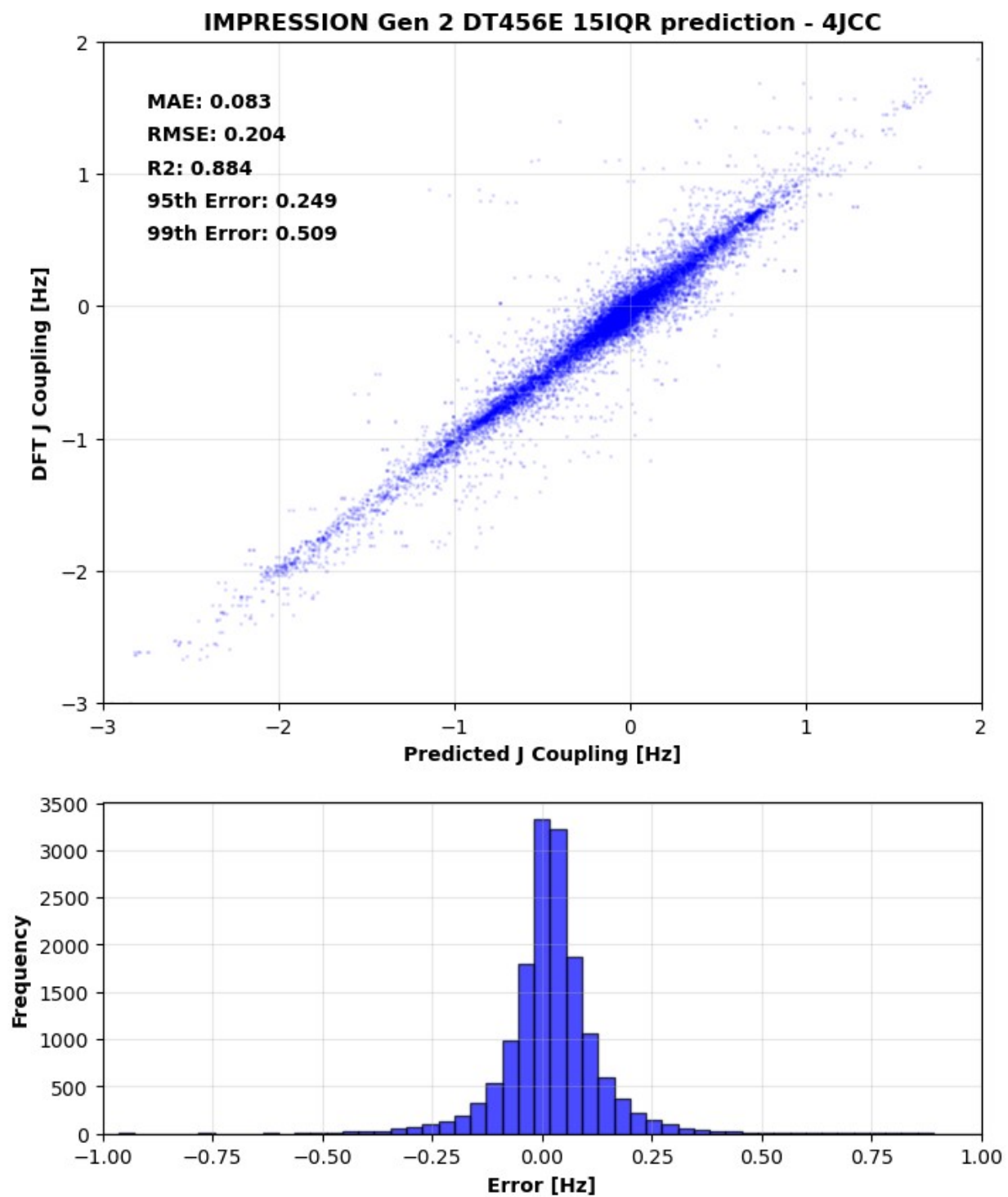


## S2.2.11 $^4J_{CC}$

Holdout

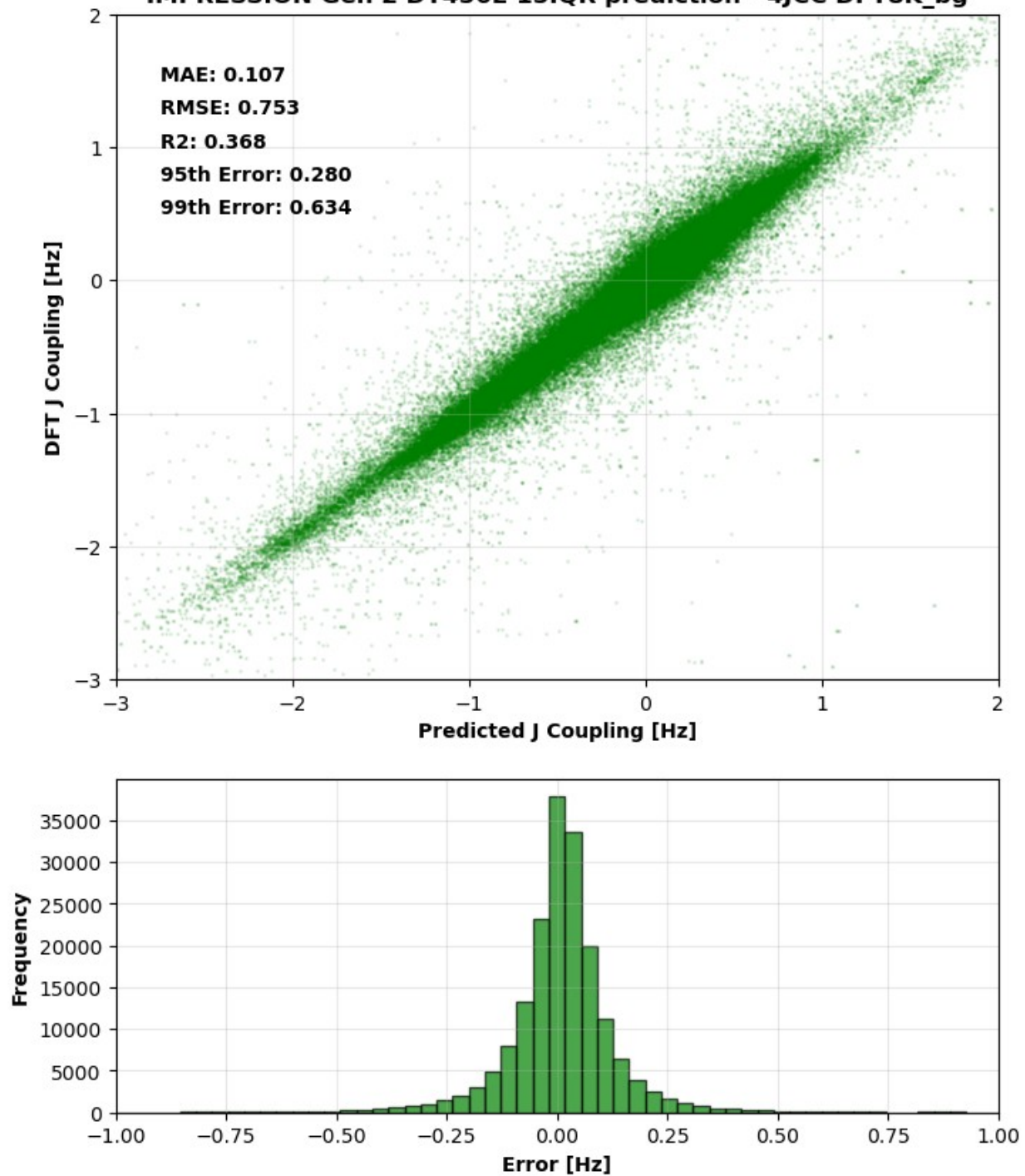


Data3



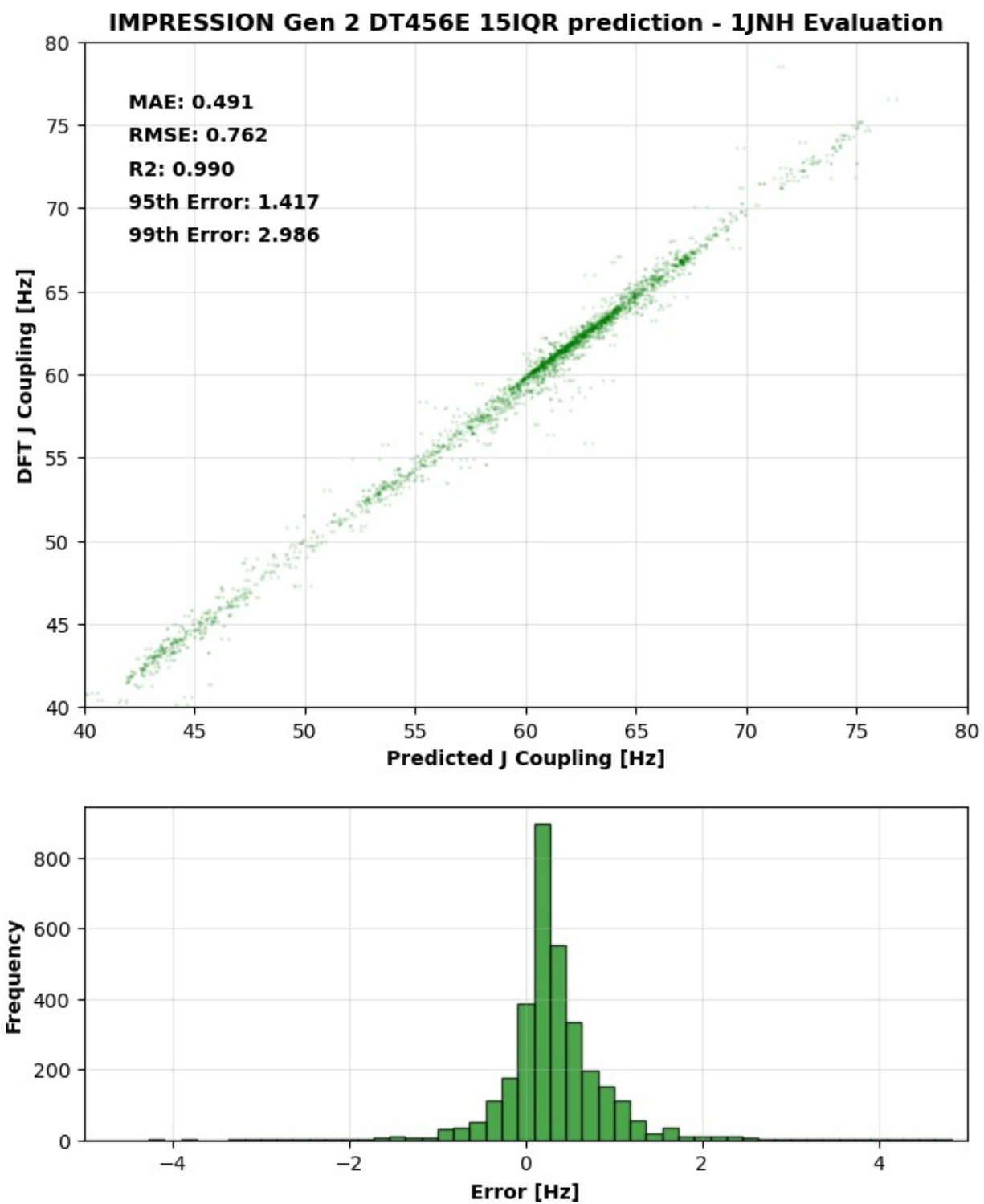
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 4JCC DFT8K\_bg**

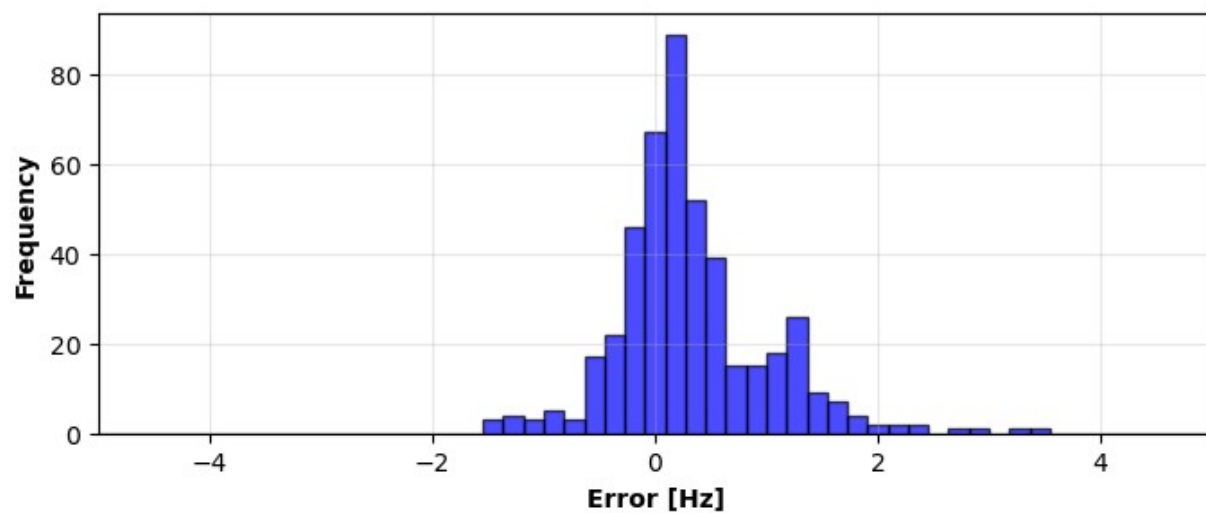
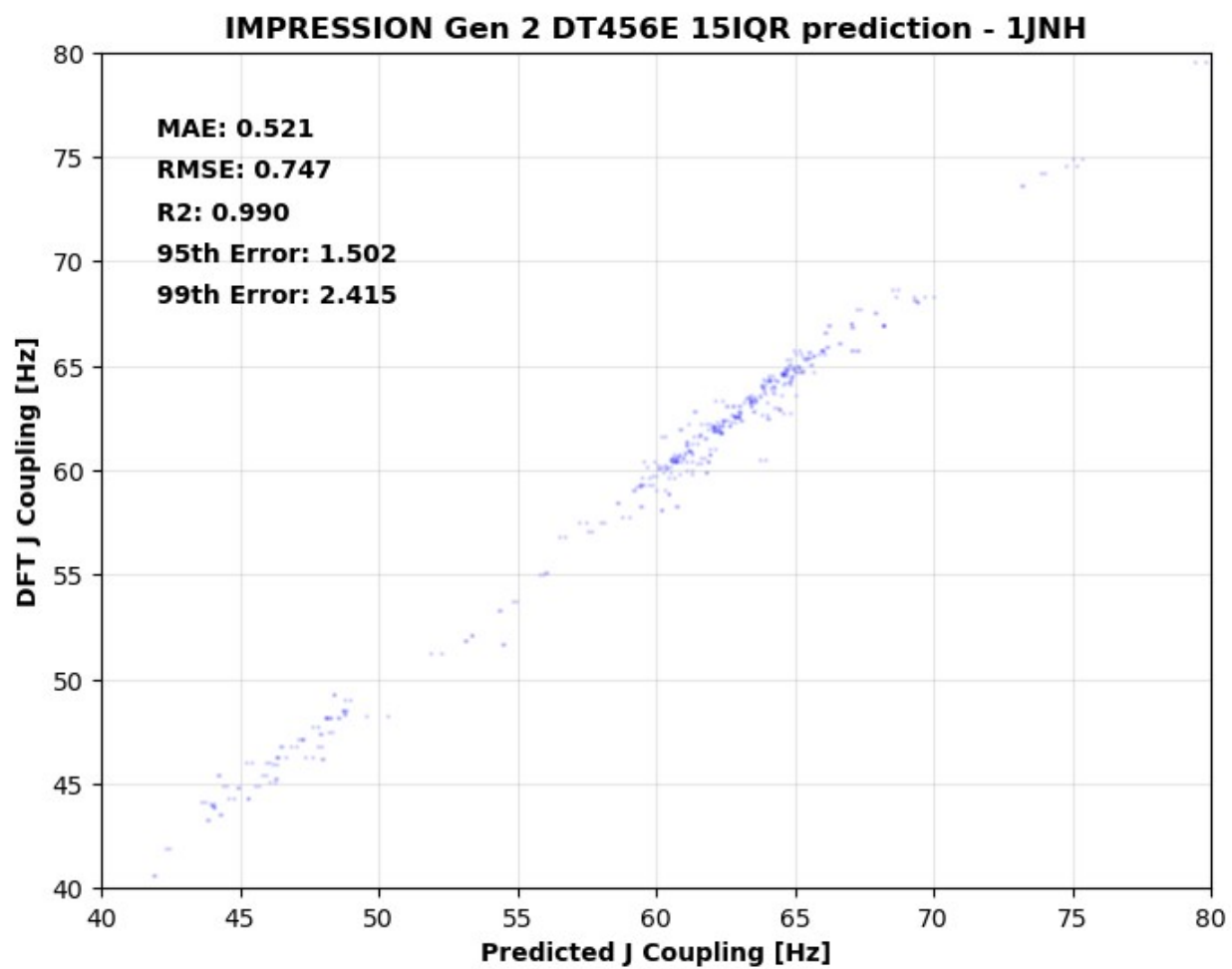


### S2.2.12 $^1J_{\text{NH}}$

Holdout

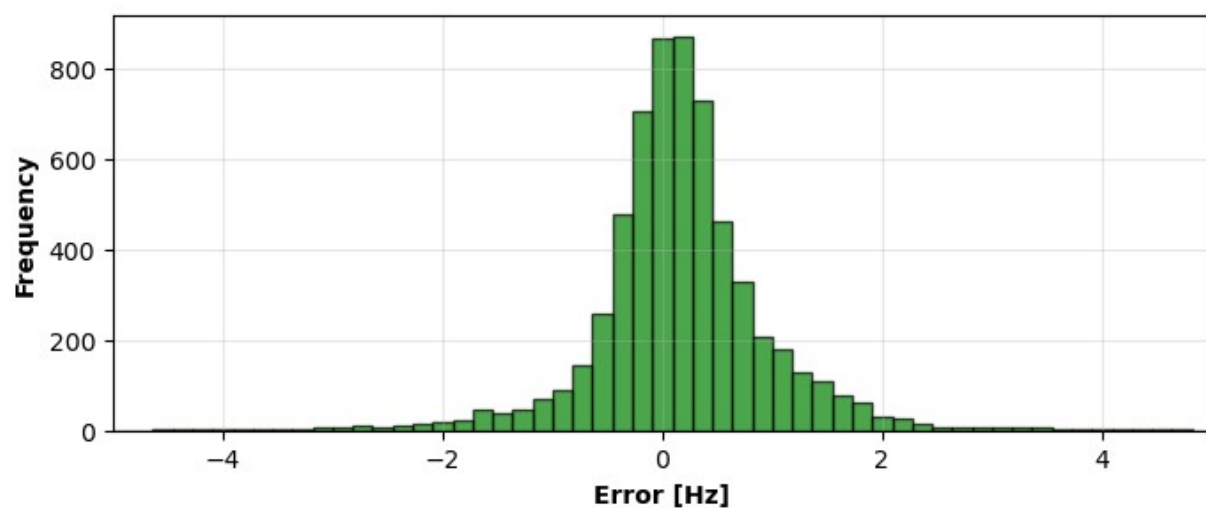
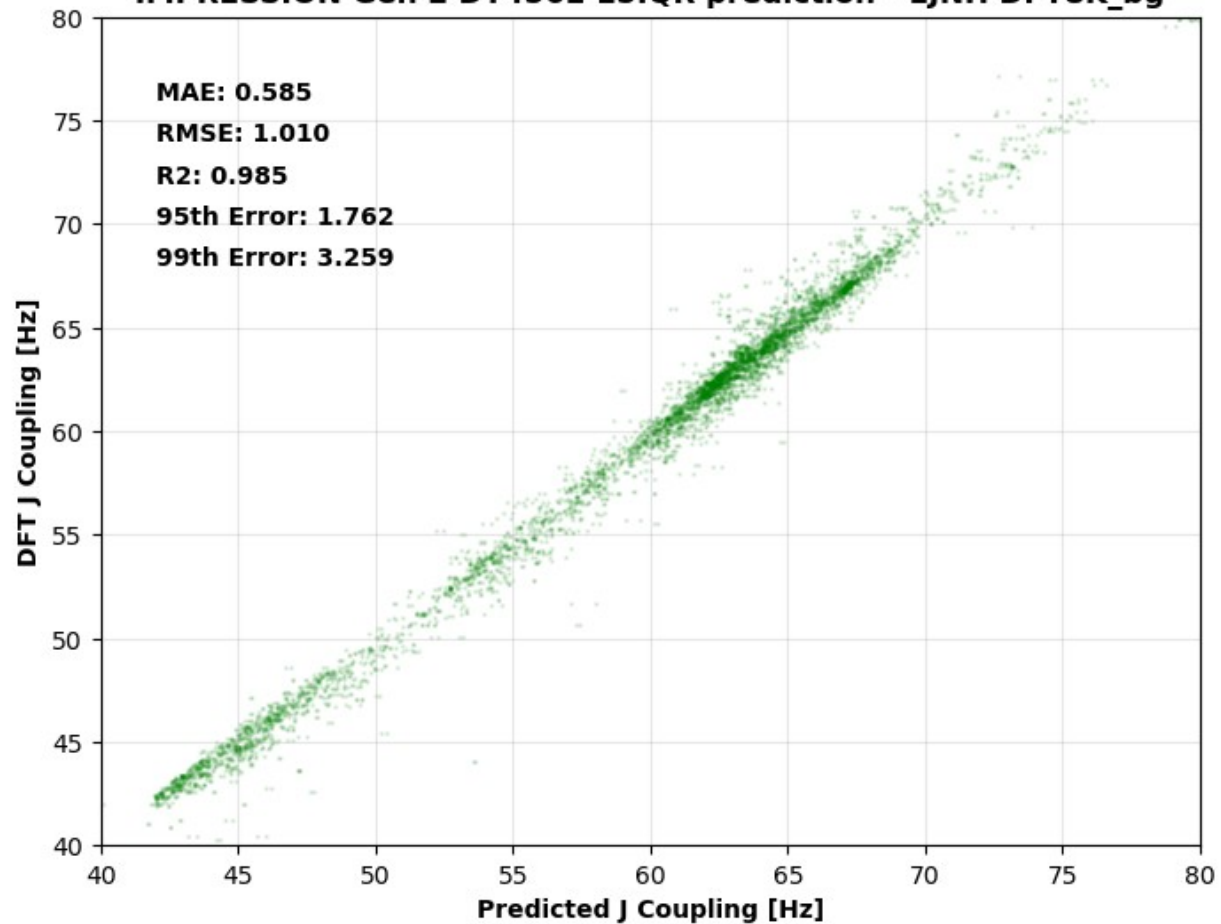


Data3



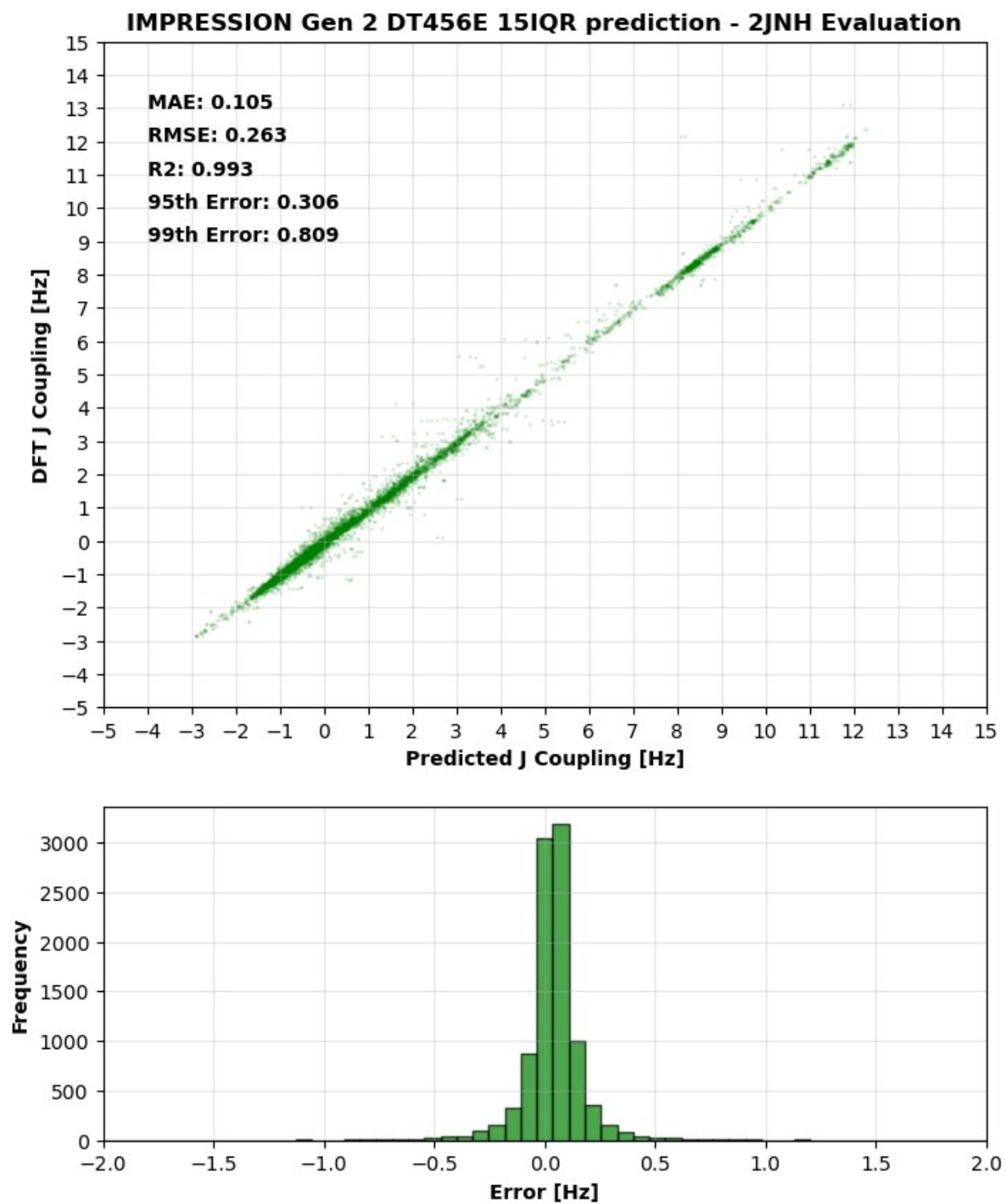
DFT8K\_bg

### IMPRESSION Gen 2 DT456E 15IQR prediction - 1JNH DFT8K\_bg

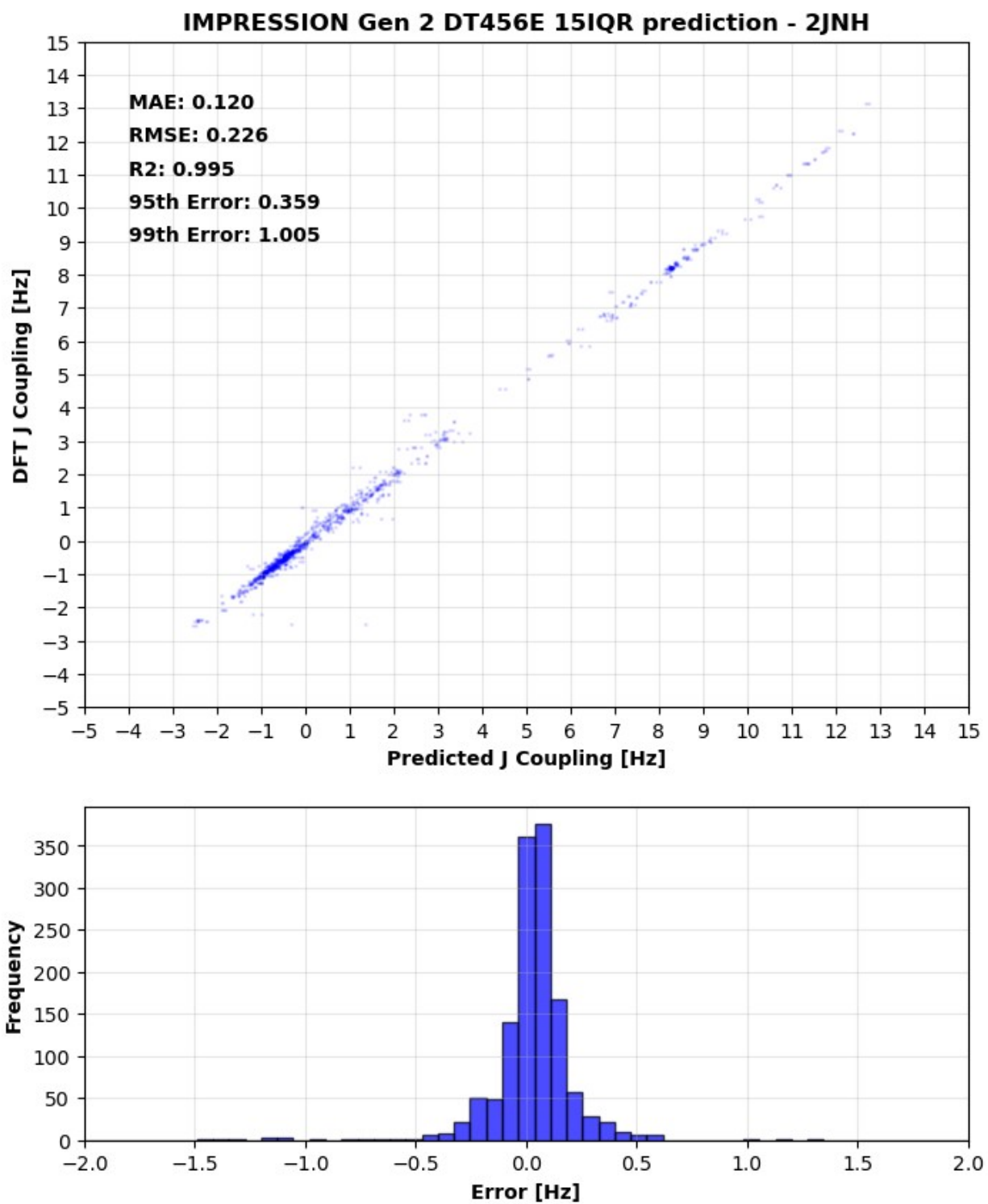


### S2.2.13 $^2J_{\text{NH}}$

Holdout

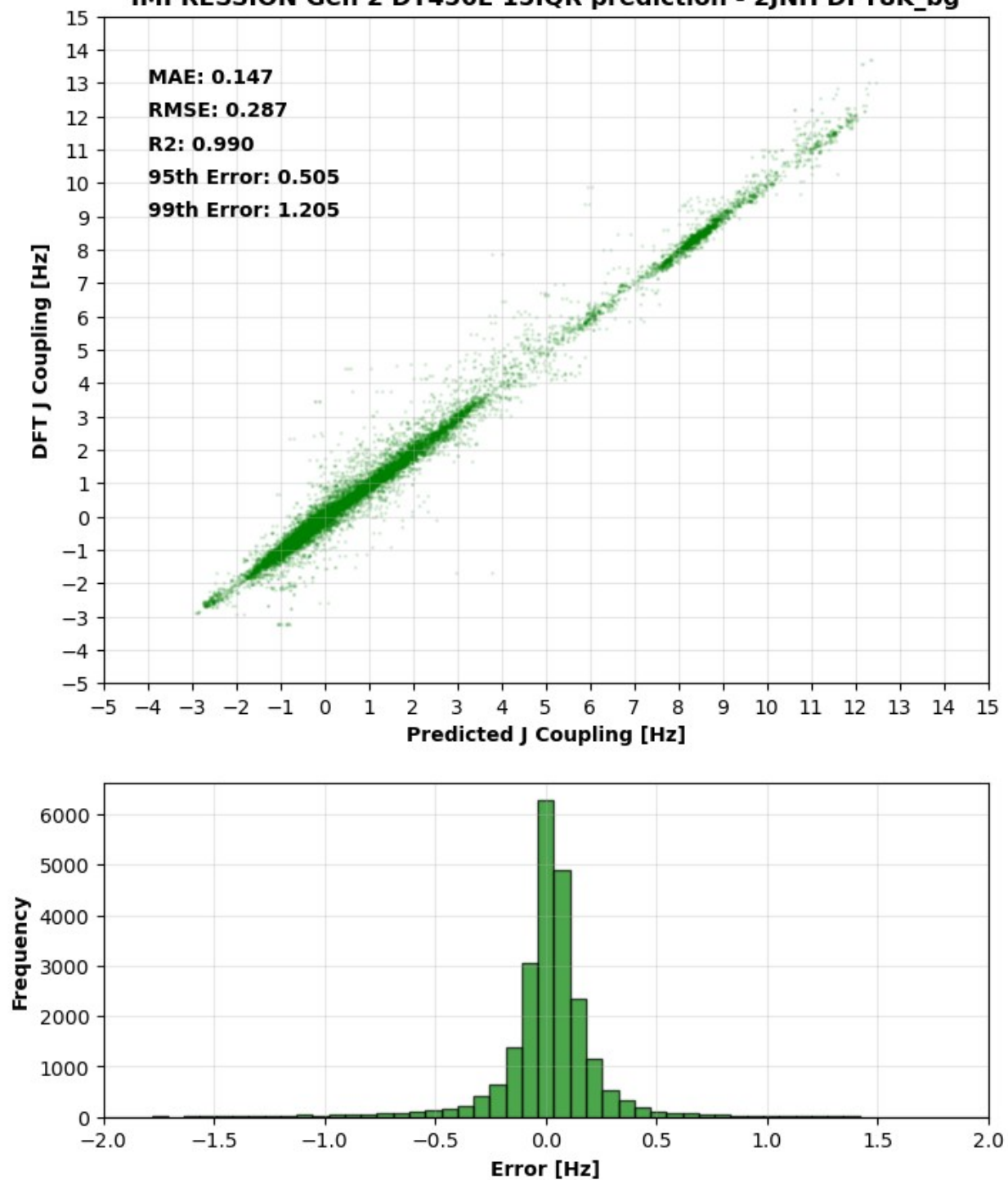


Data3



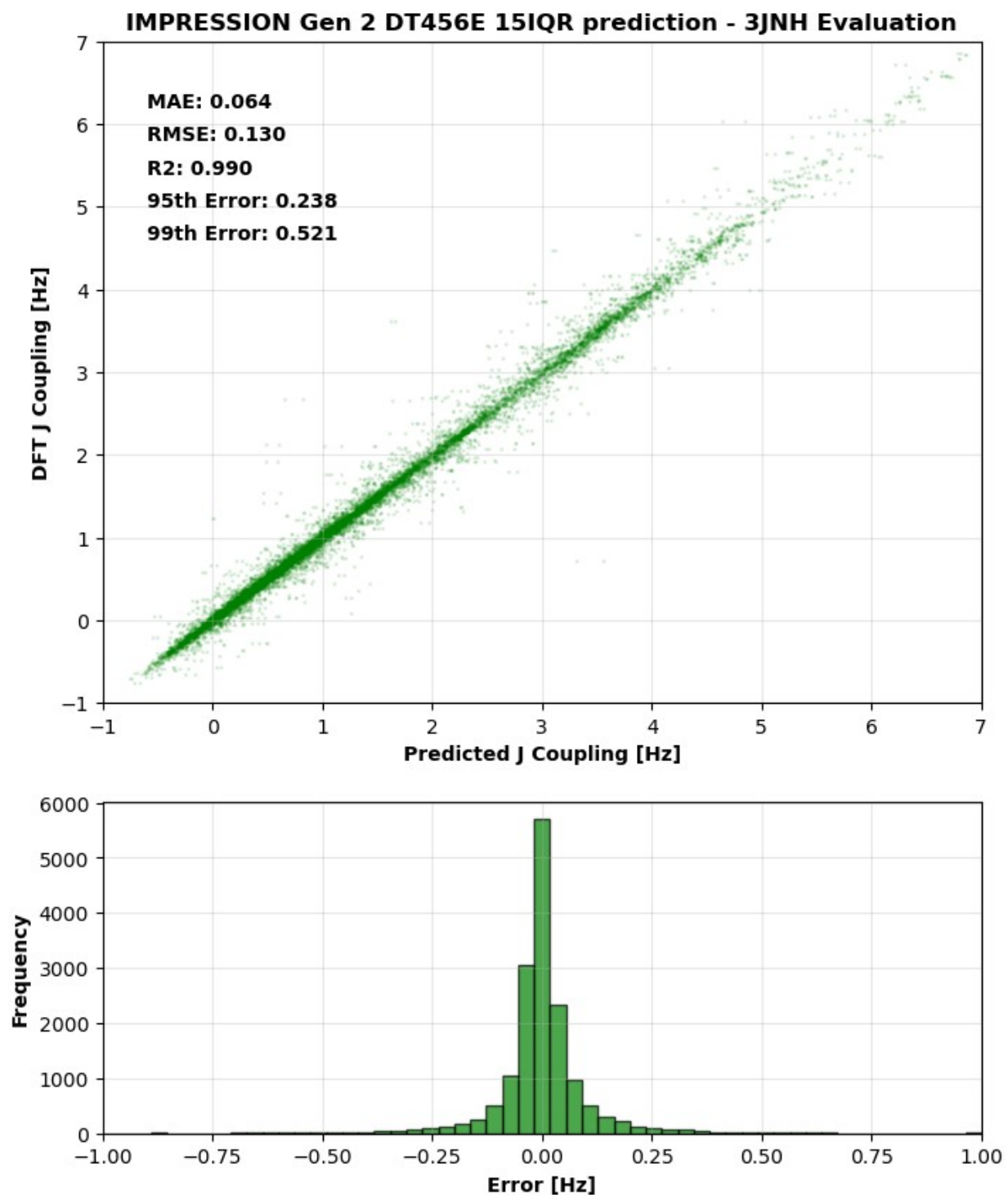
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 2JNH DFT8K\_bg**

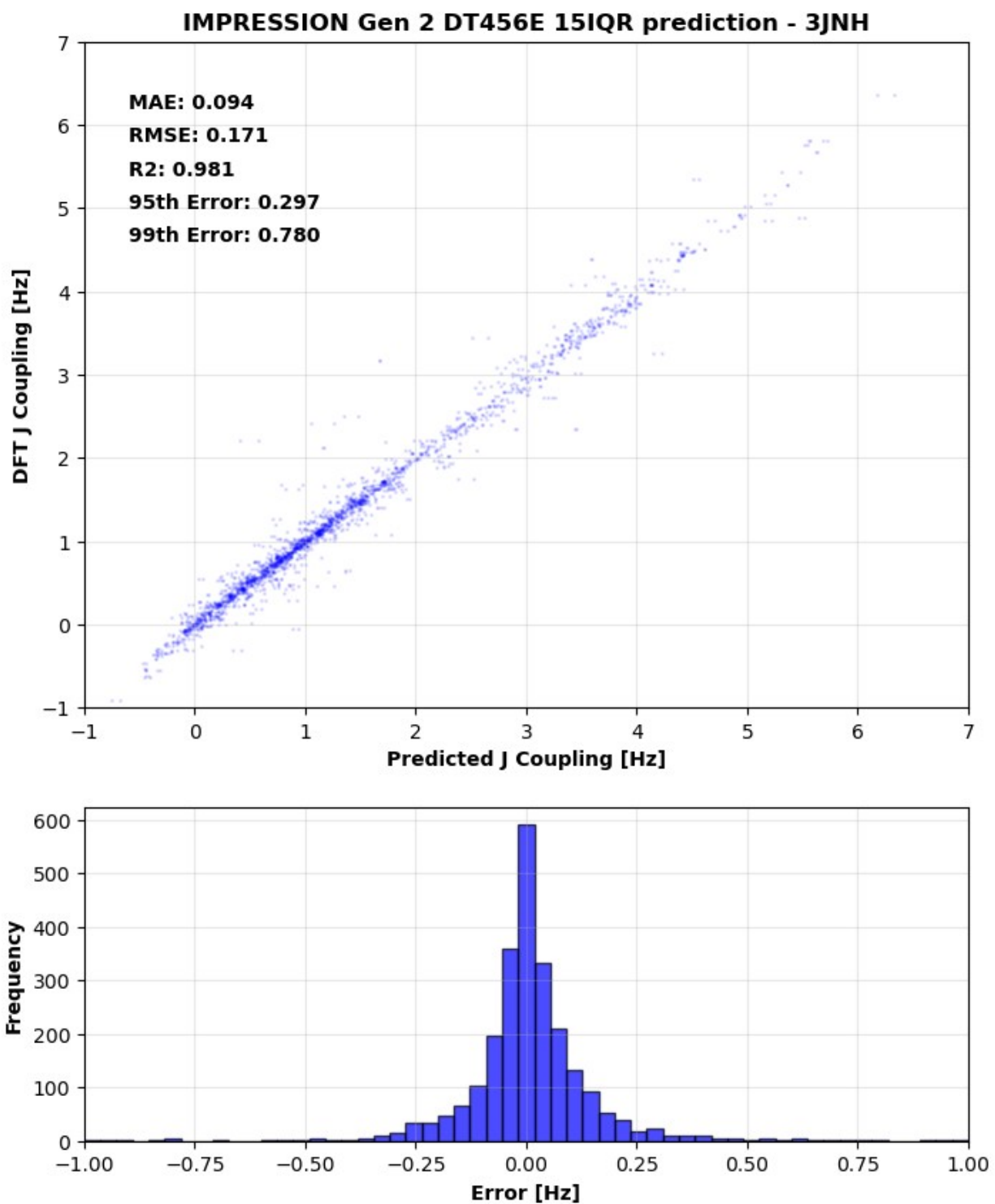


## S2.2.14 $^3J_{\text{NH}}$

Holdout

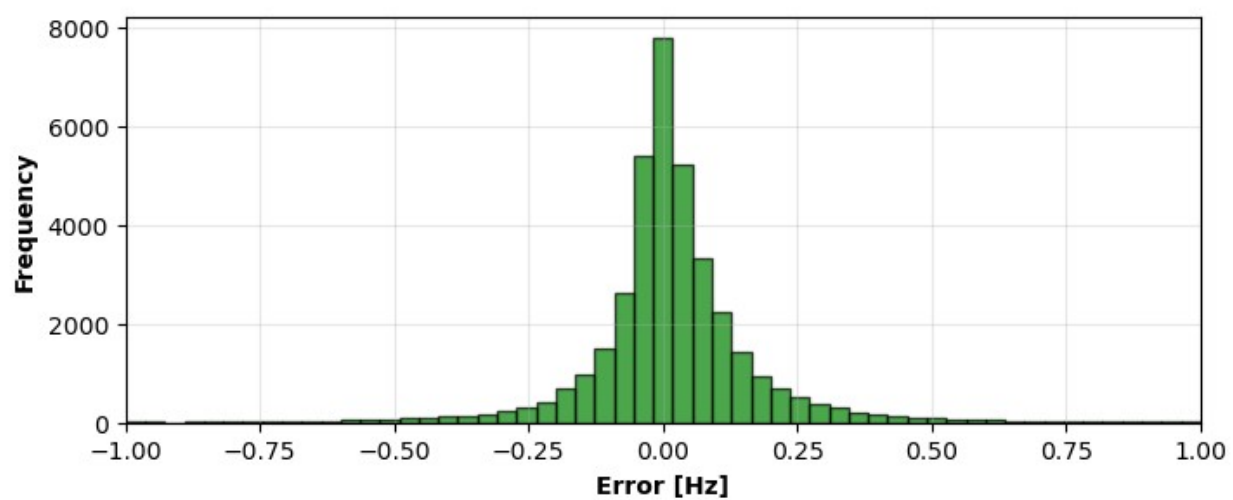
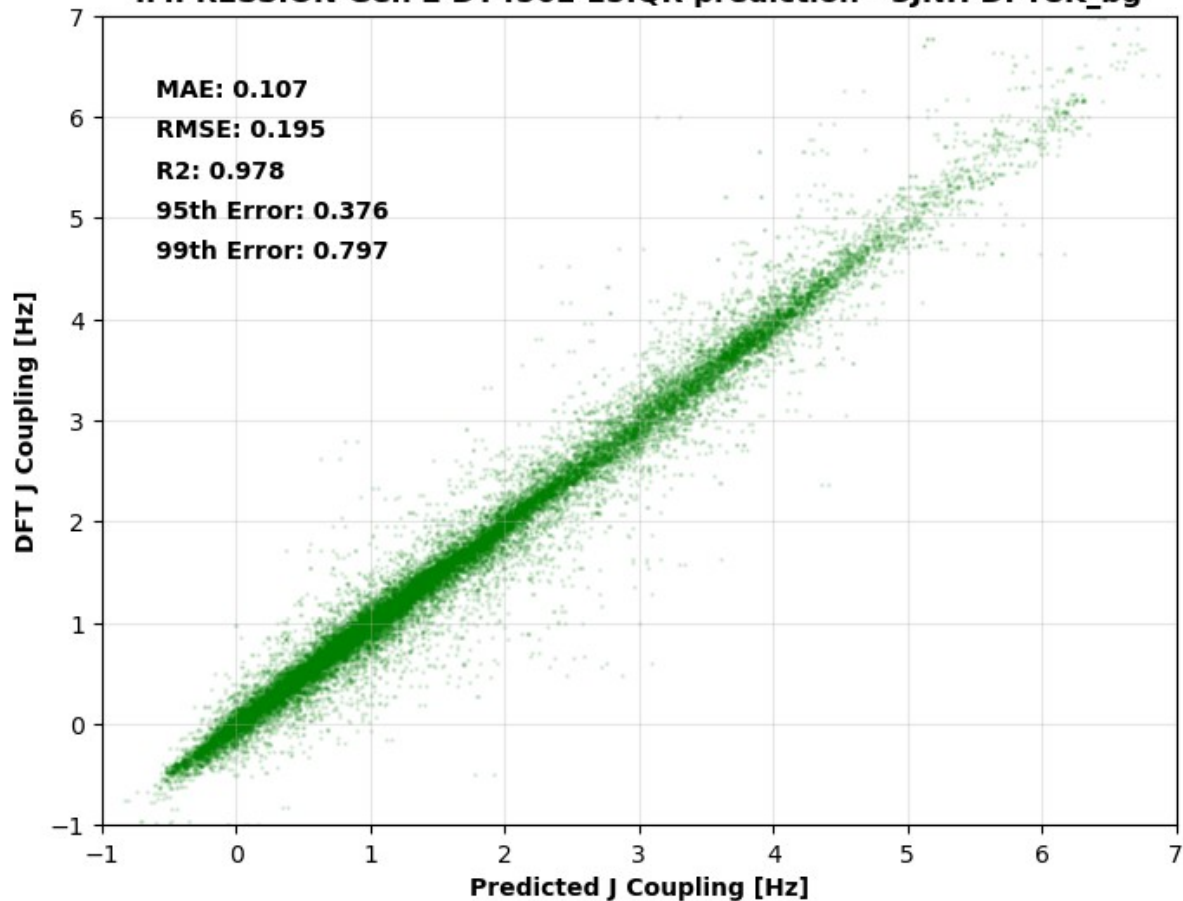


Data3



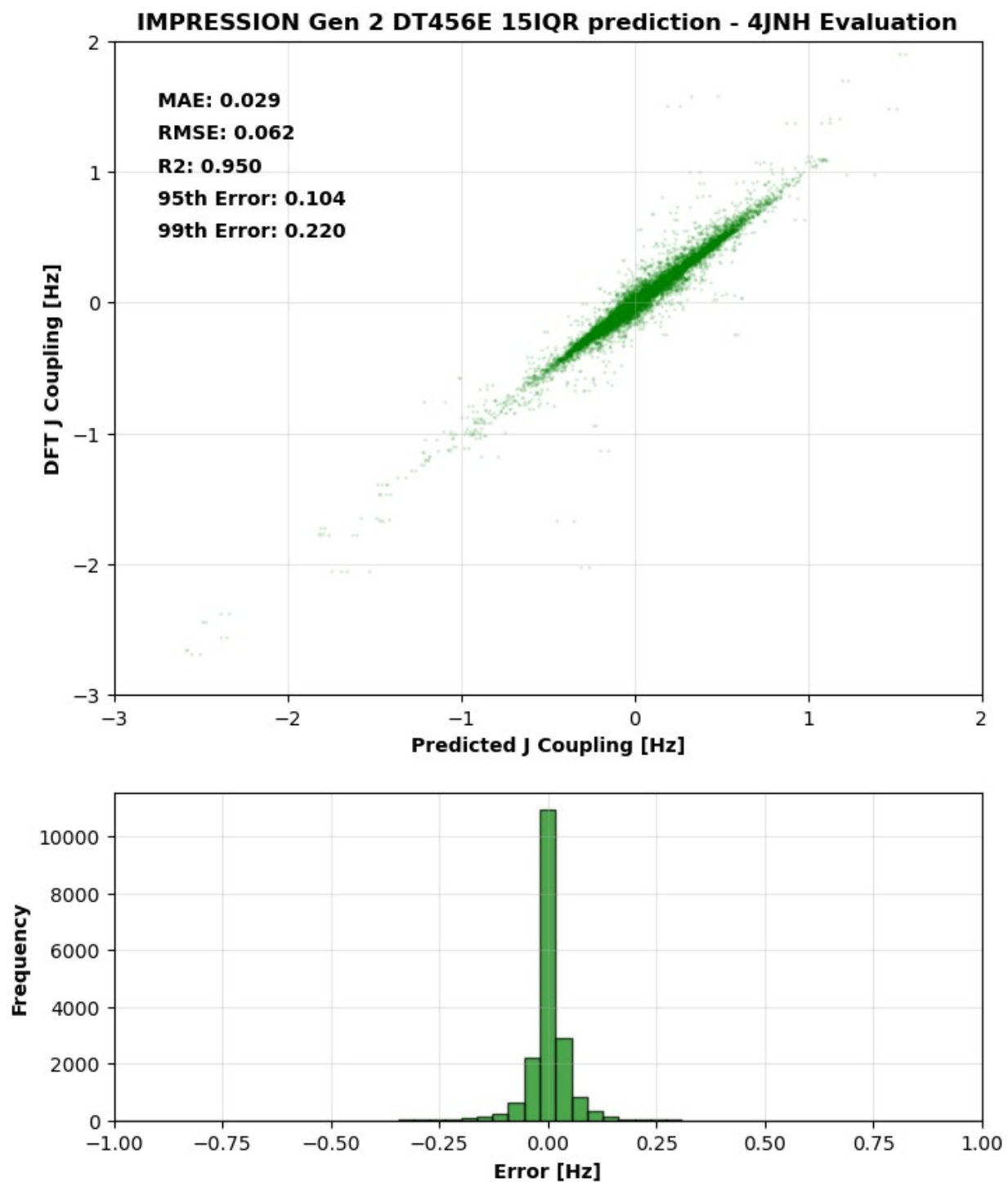
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 3JNH DFT8K\_bg**

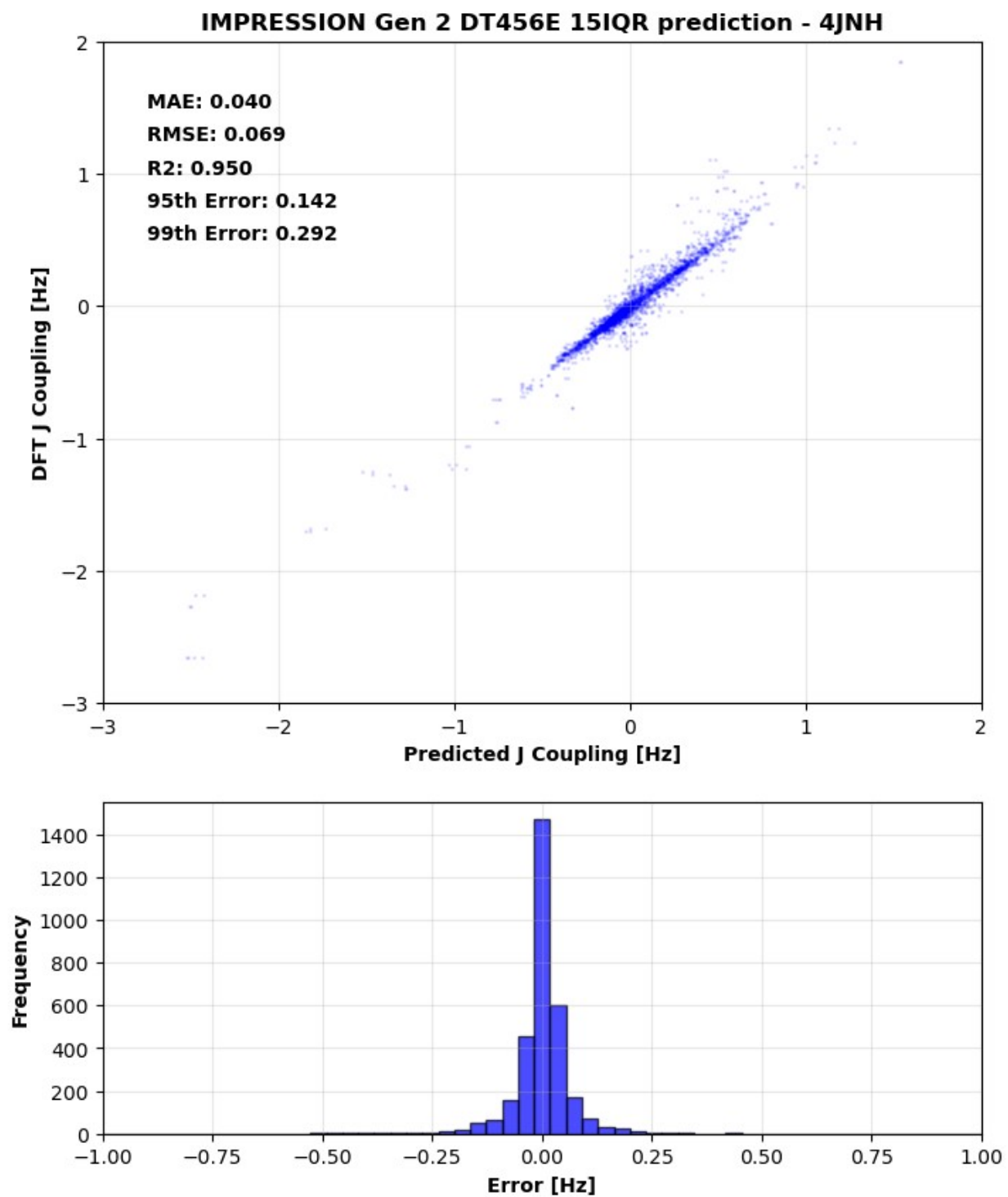


## S2.2.15 $^4J_{\text{NH}}$

Holdout

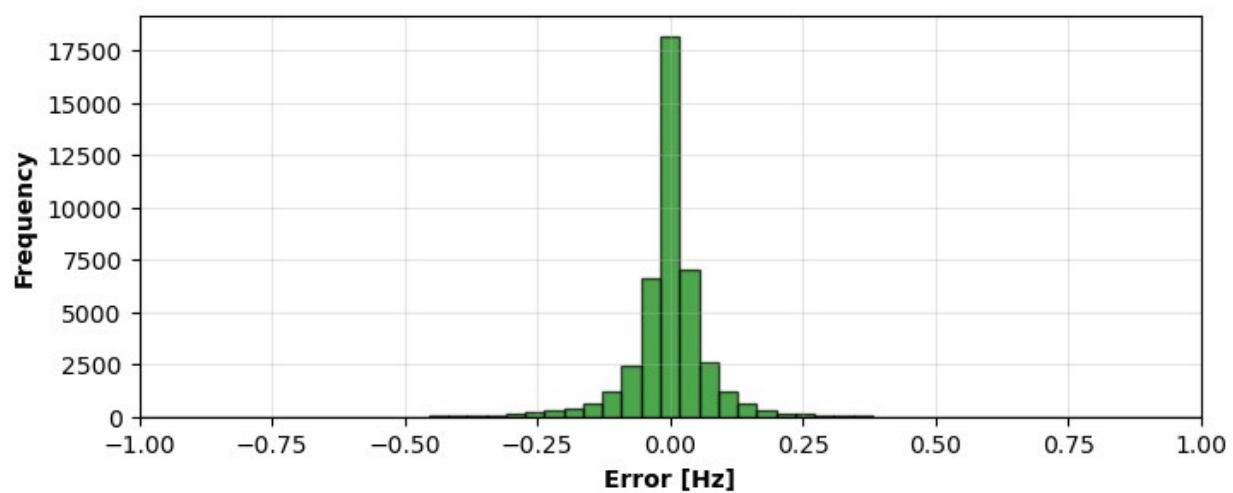
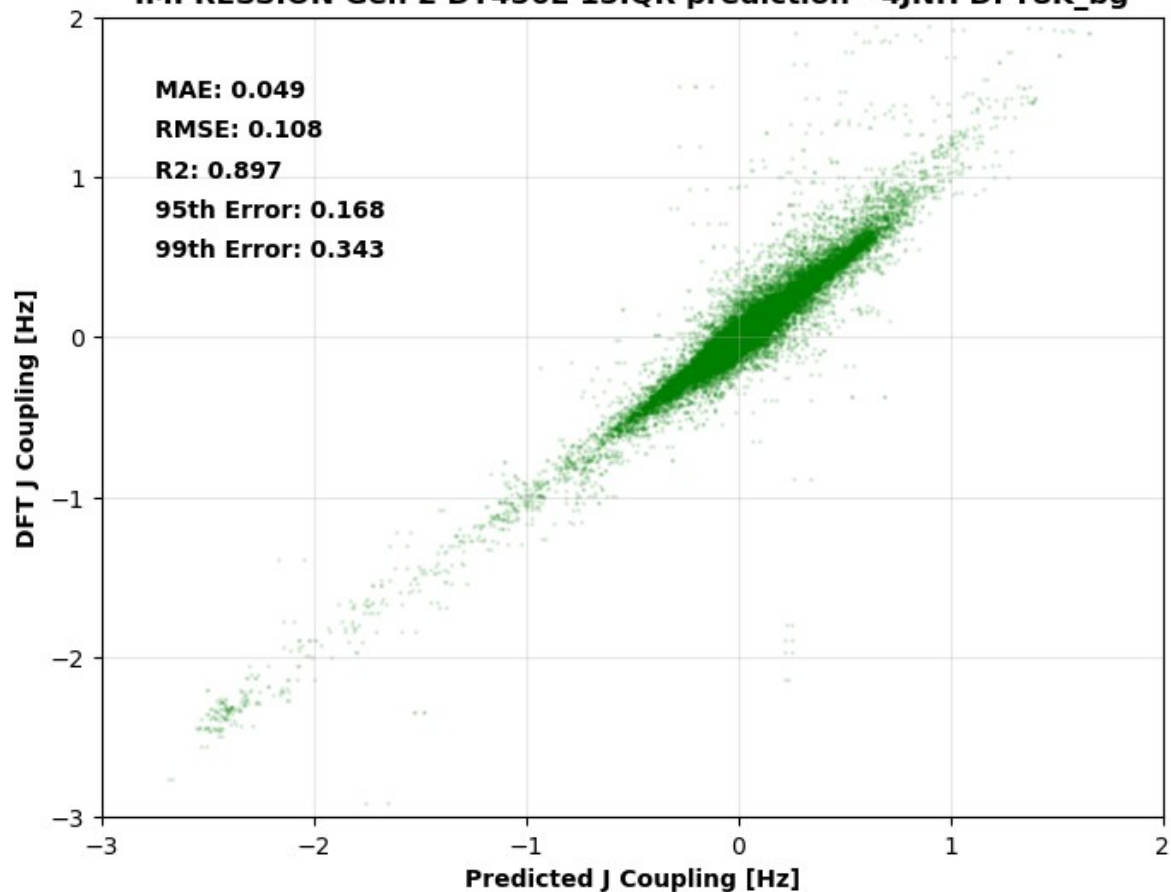


Data3



DFT8K\_bg

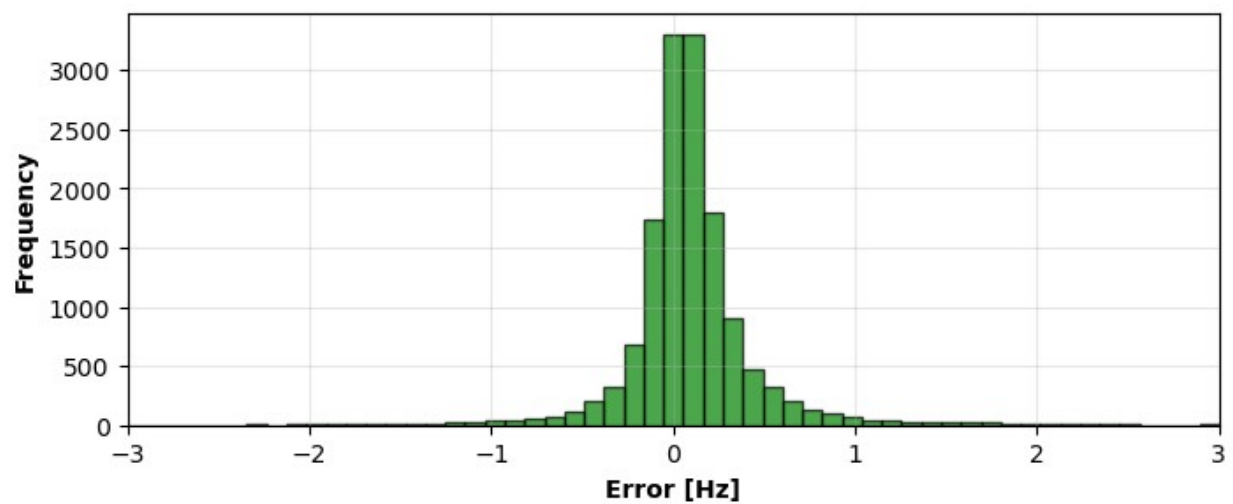
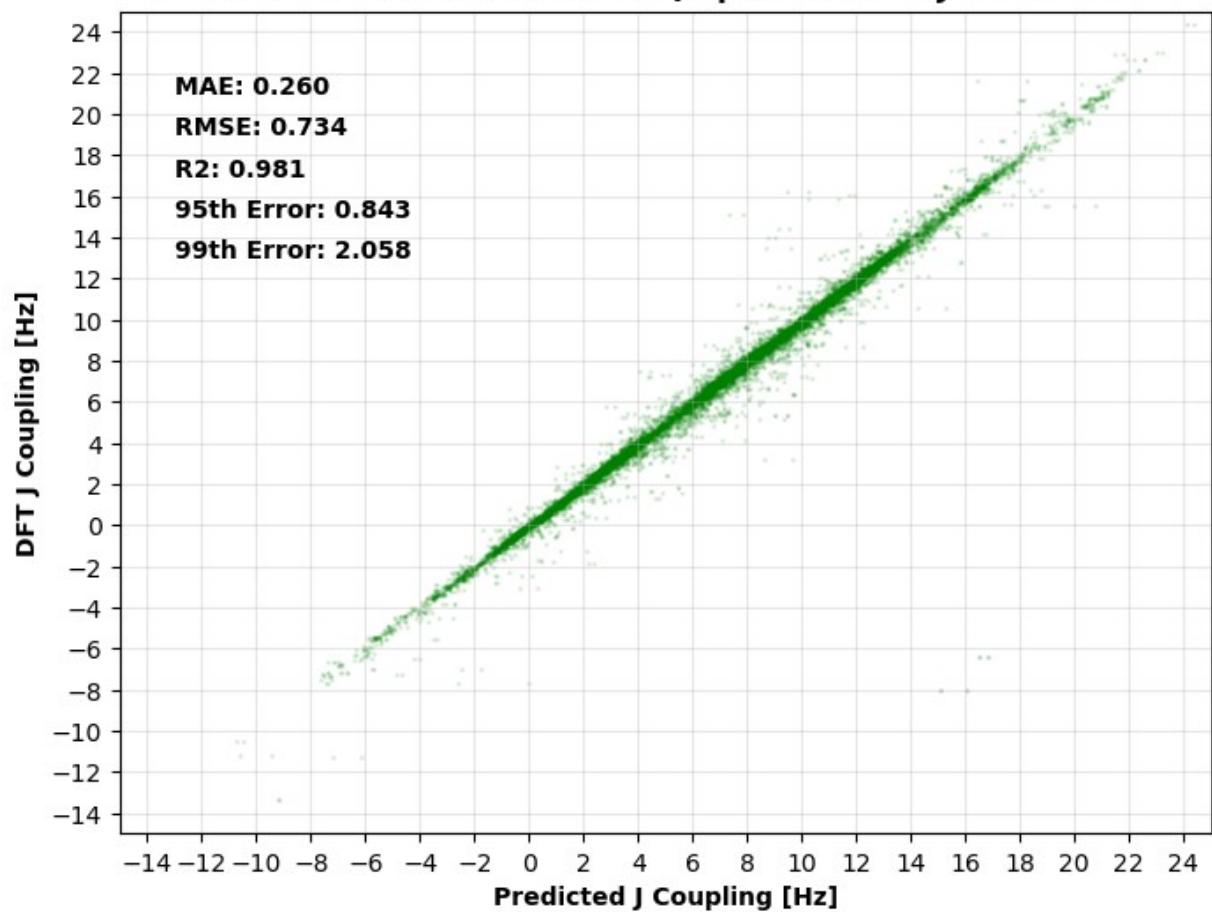
**IMPRESSION Gen 2 DT456E 15IQR prediction - 4JNH DFT8K\_bg**



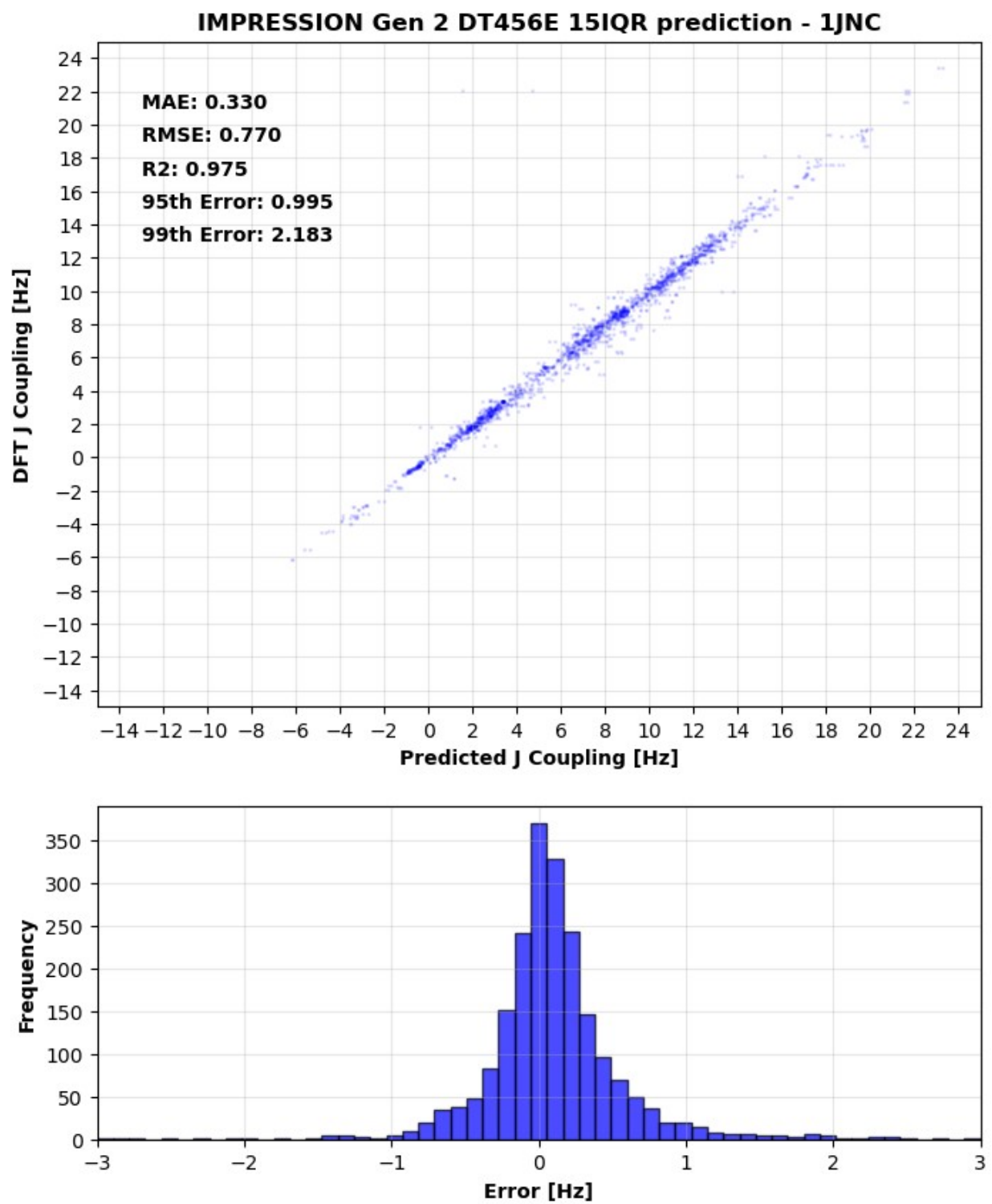
## S2.2.16 $^1J_{\text{NC}}$

Holdout

**IMPRESSION Gen 2 DT456E 15IQR prediction -  $^1J_{\text{NC}}$  Evaluation**

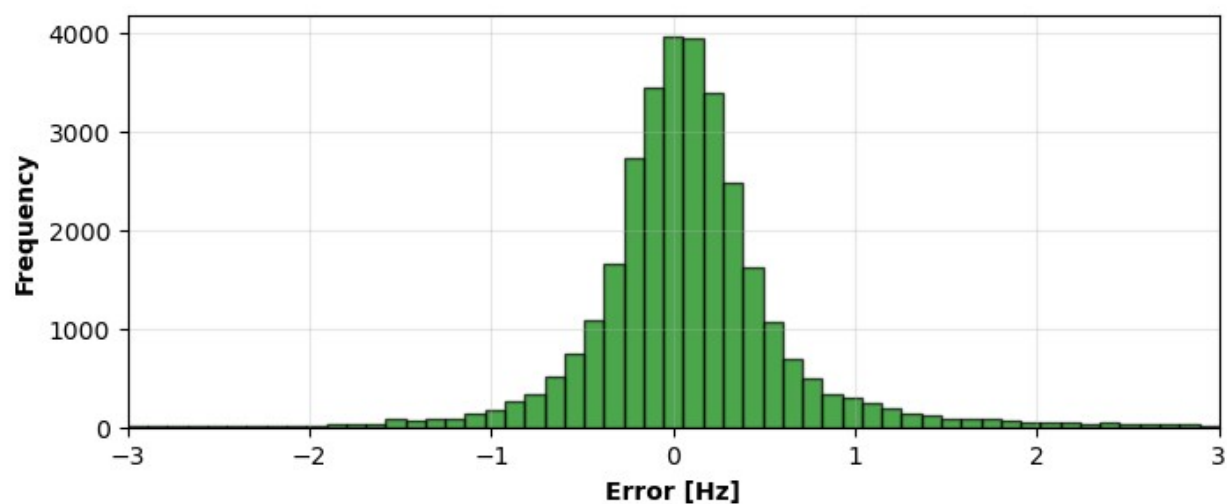
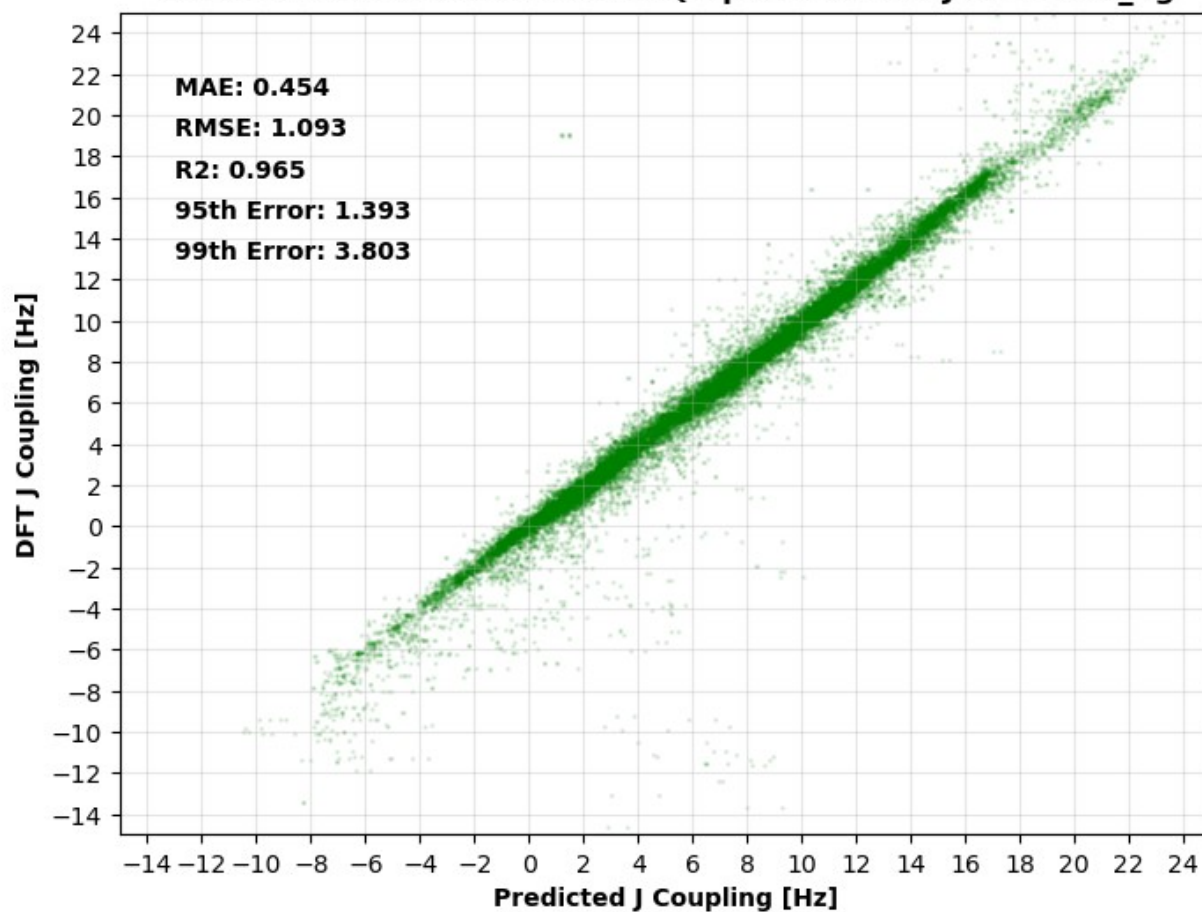


Data3



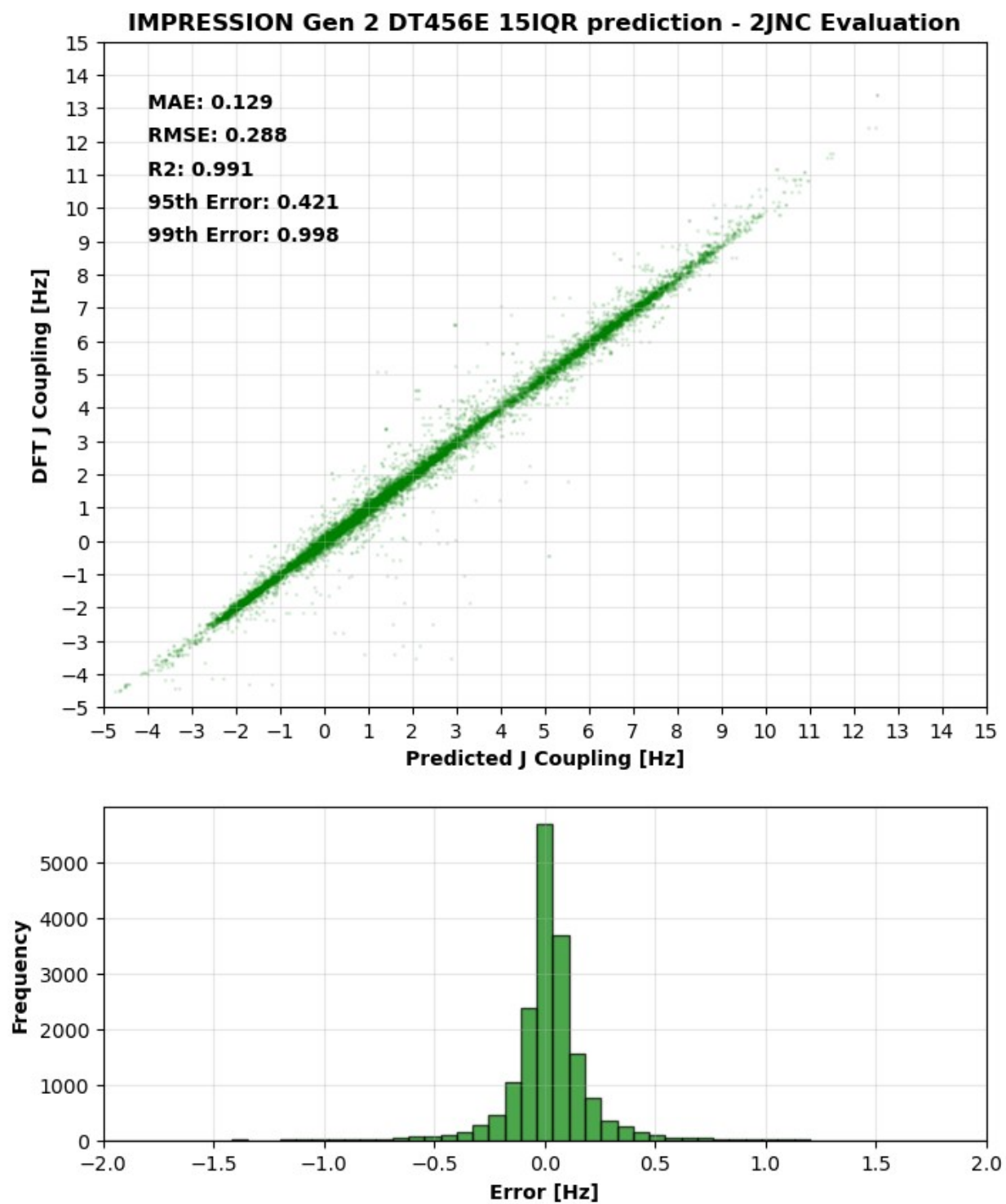
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 1JNC DFT8K\_bg**

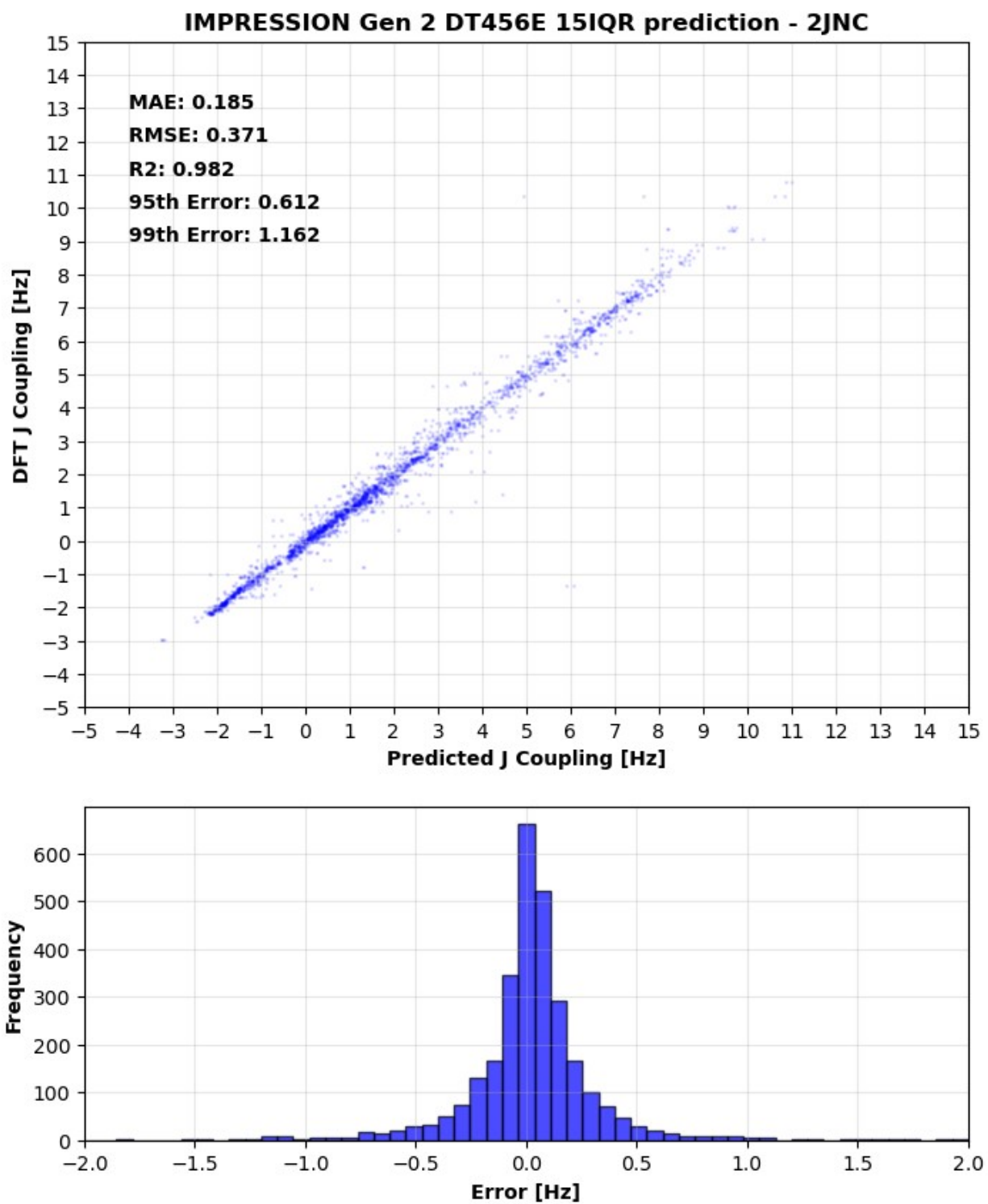


## S2.2.17 $^2J_{\text{NC}}$

Holdout

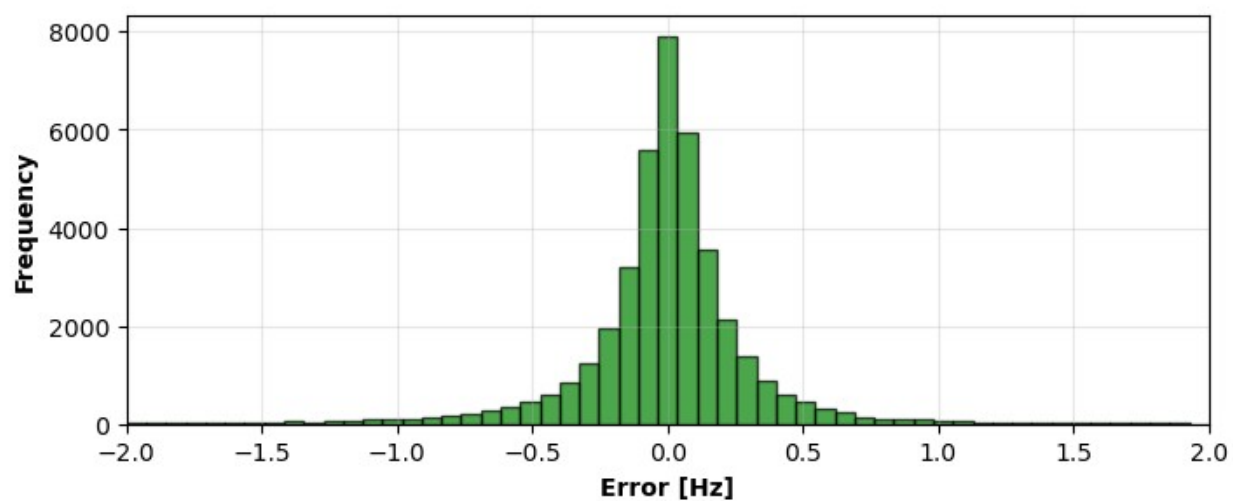
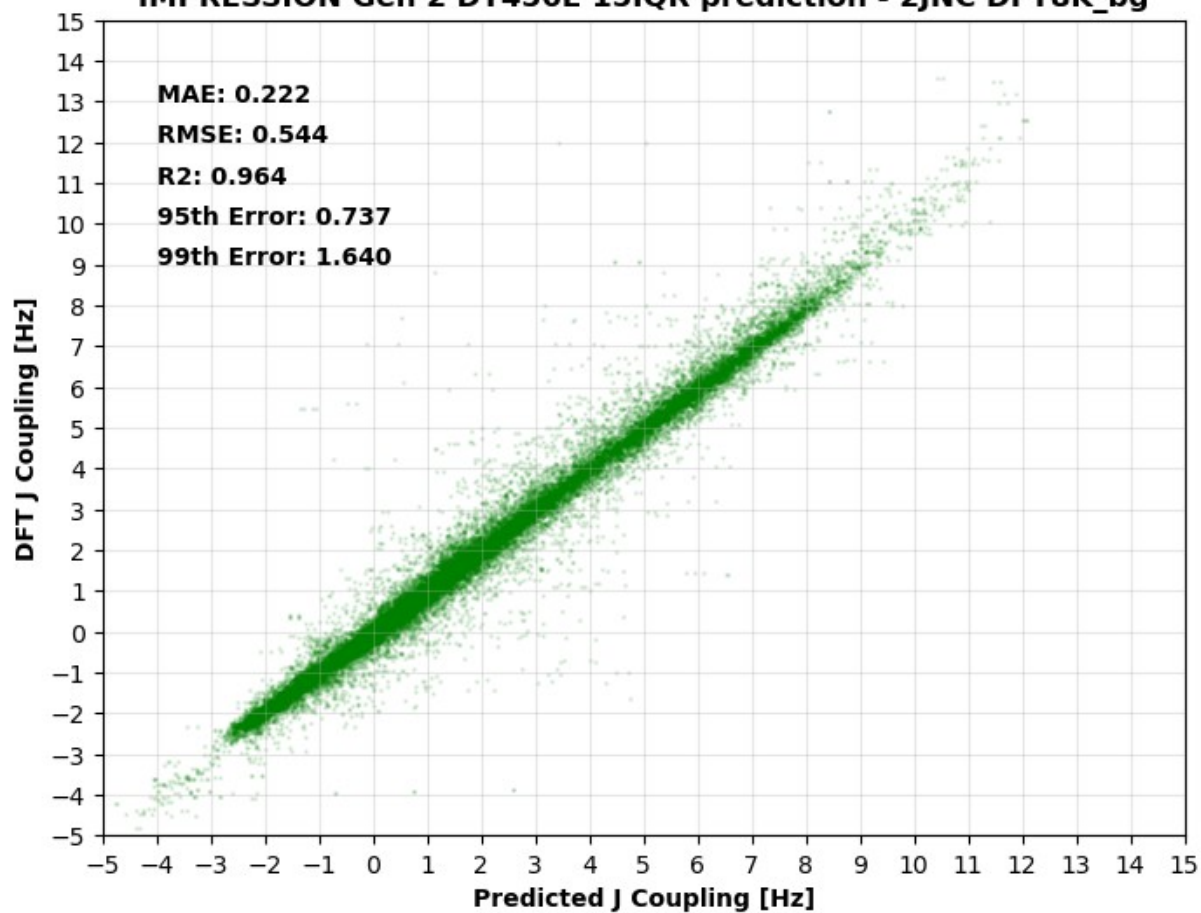


Data3



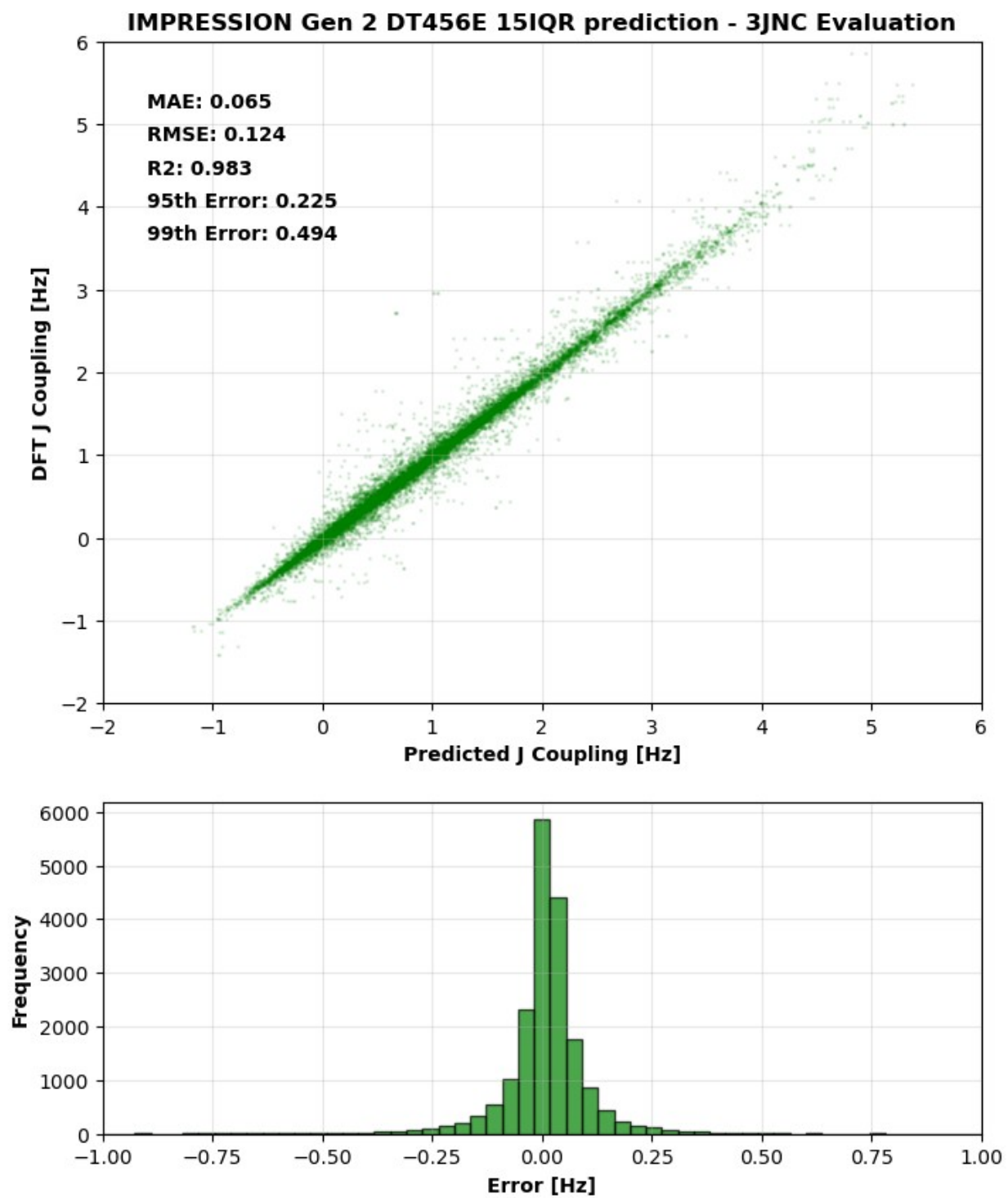
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 2JNC DFT8K\_bg**

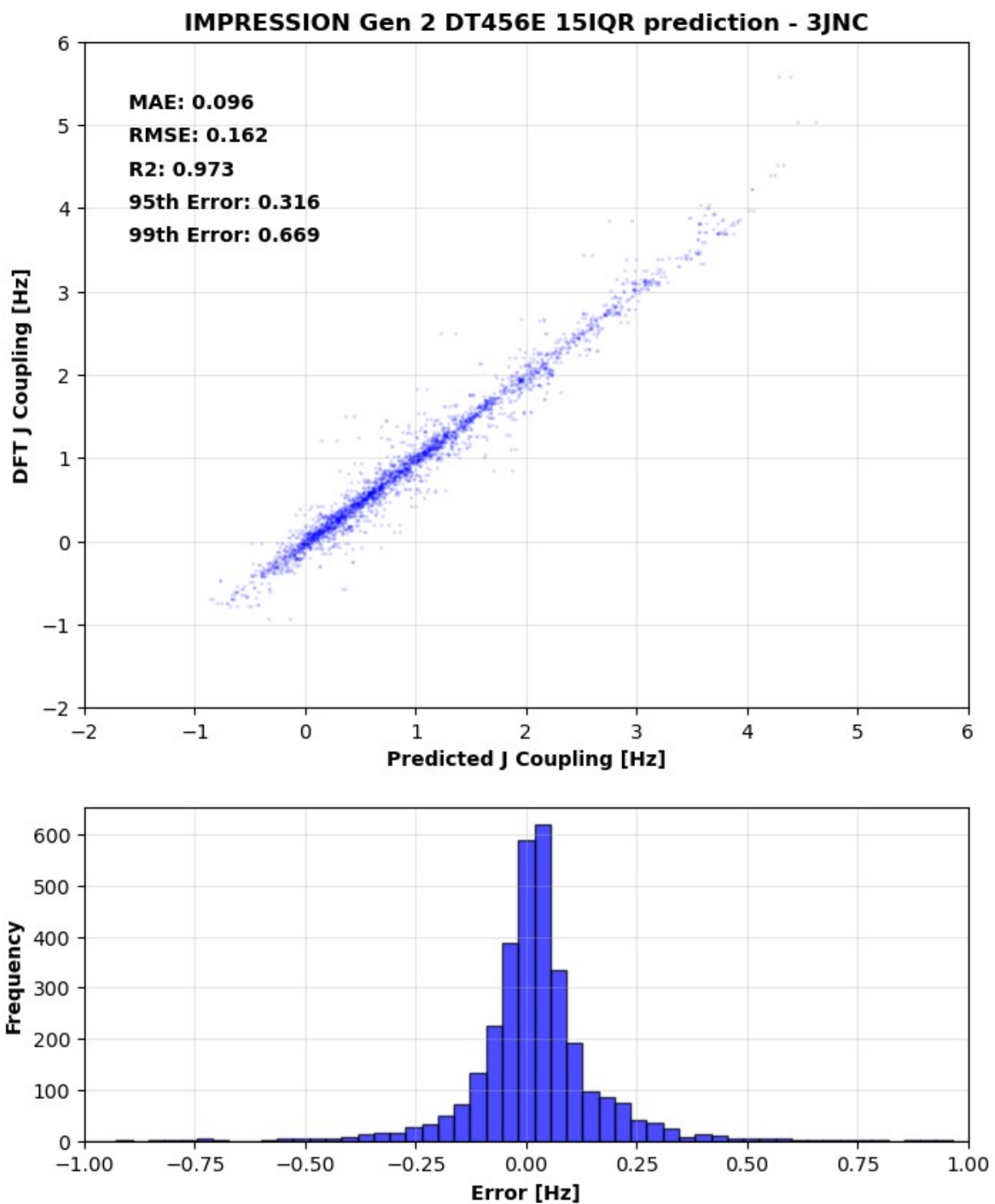


## S2.2.18 $^3J_{\text{NC}}$

Holdout

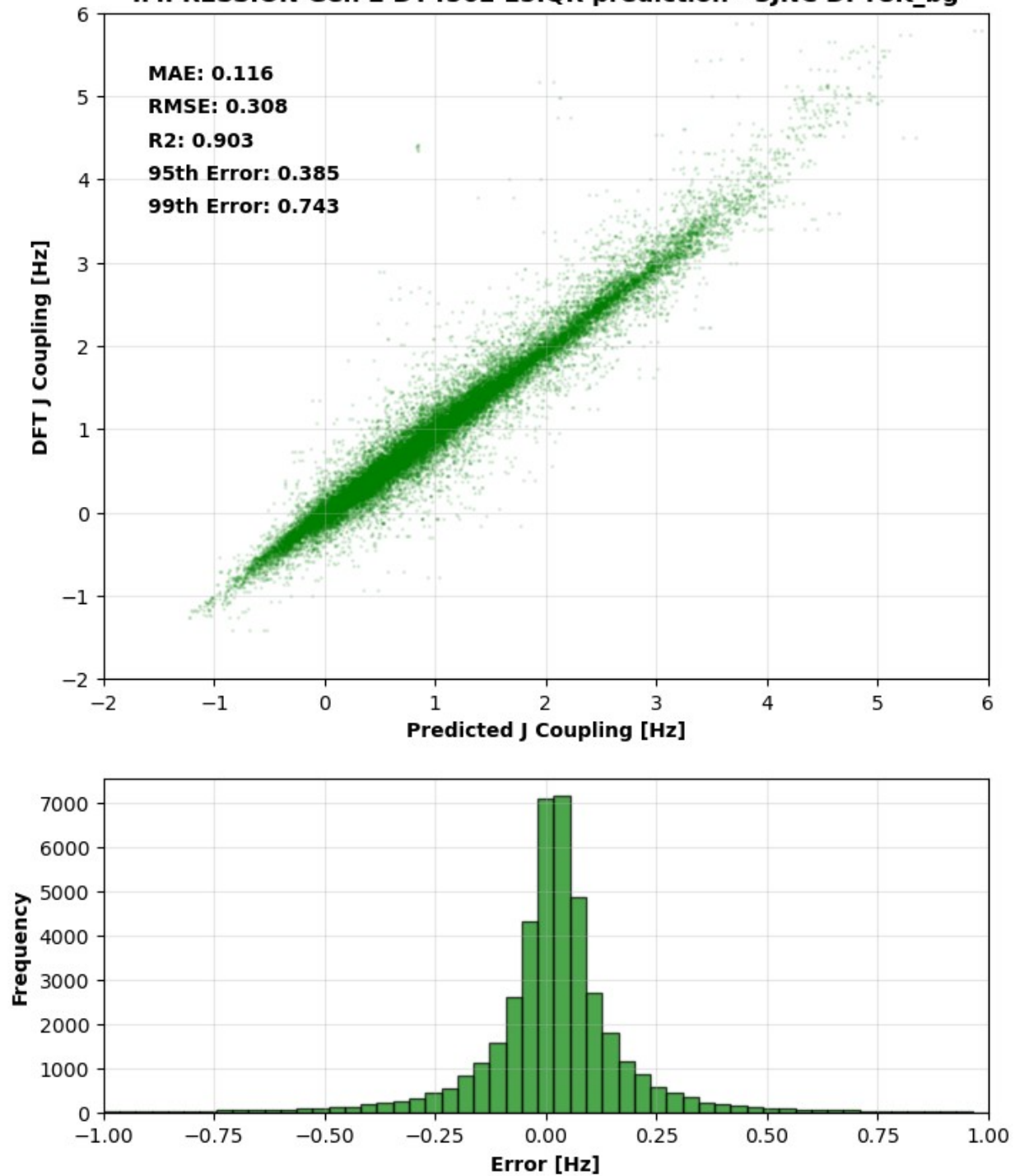


Data3



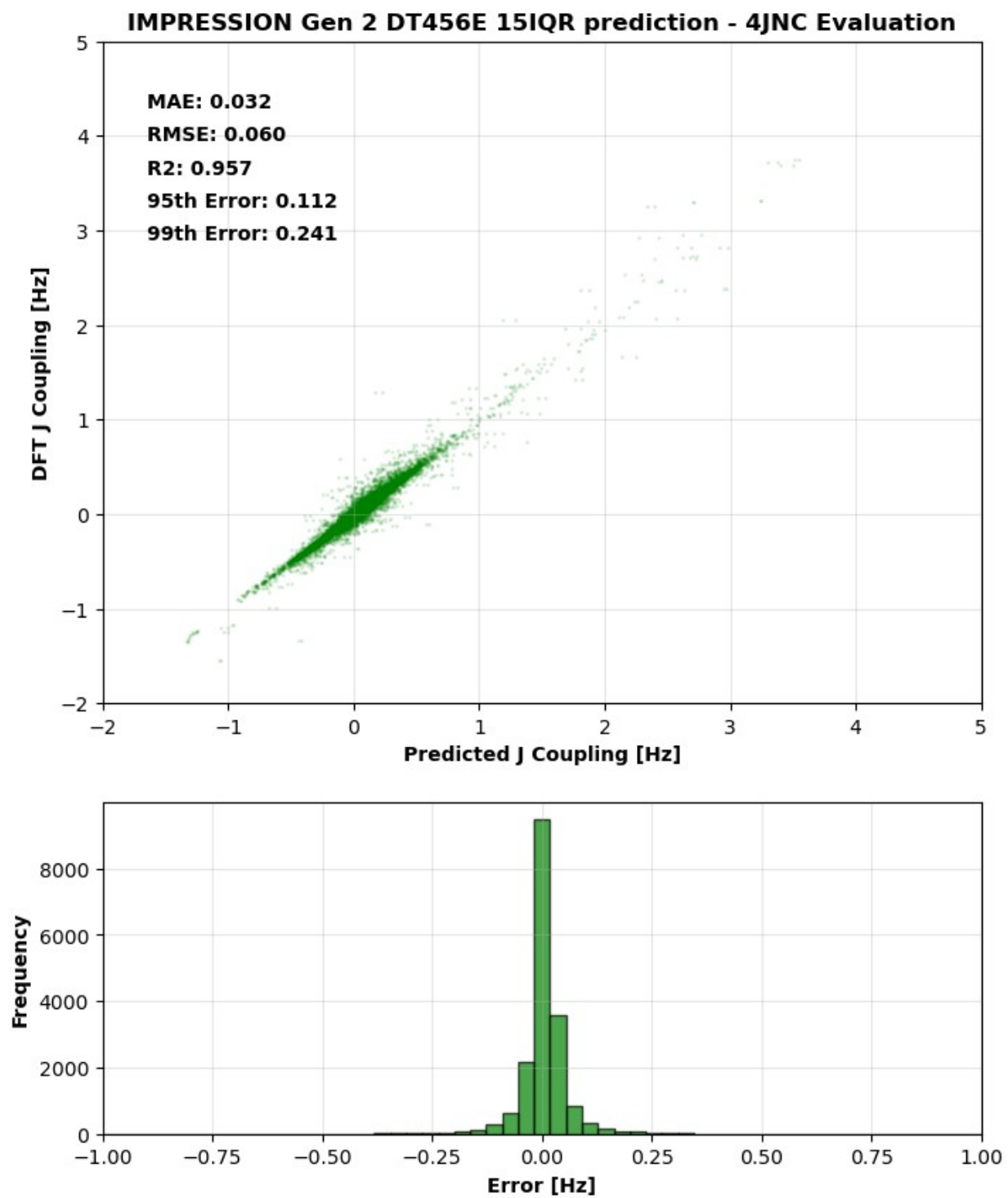
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 3JNC DFT8K\_bg**

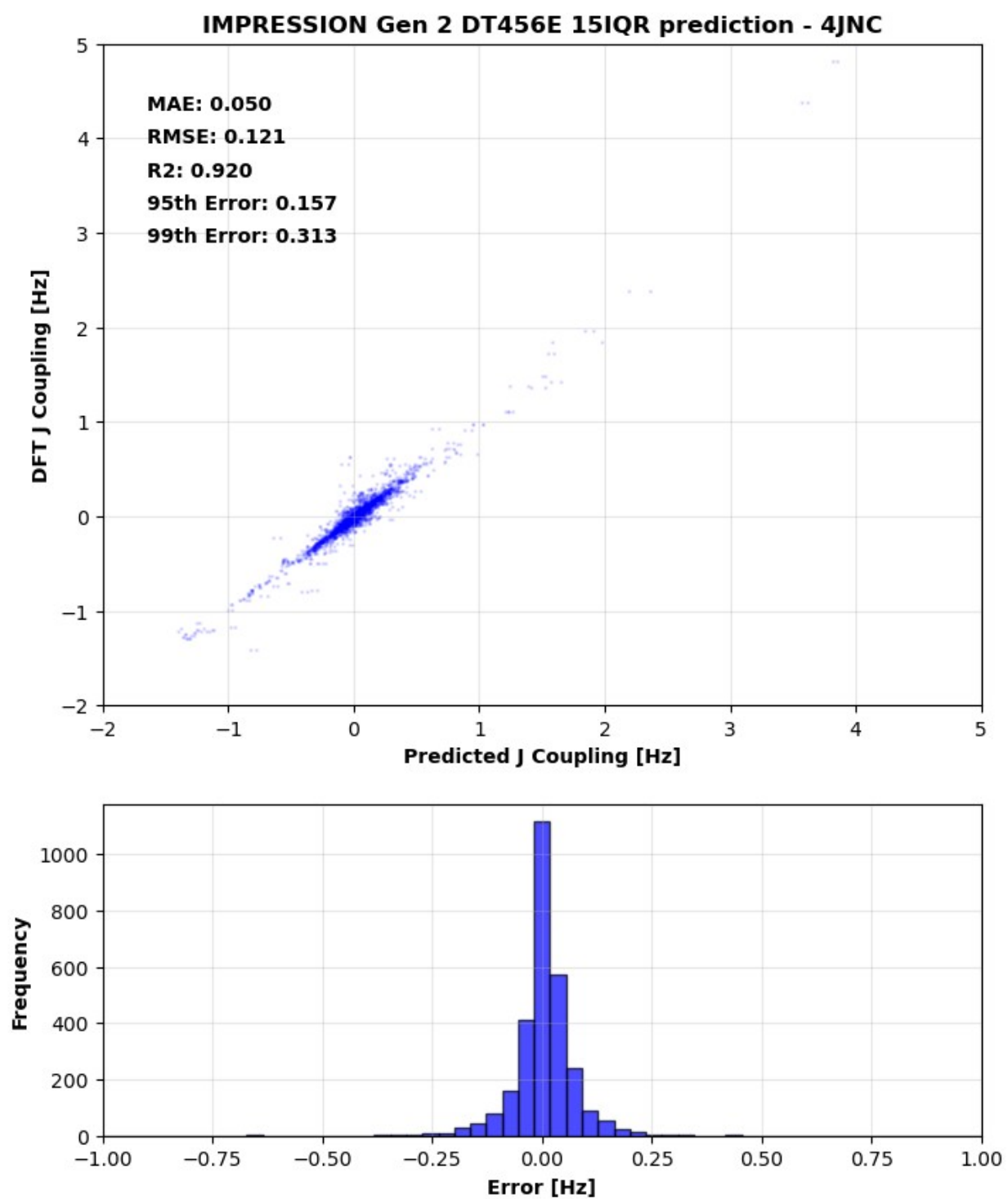


## S2.2.19 $^4J_{\text{NC}}$

Holdout

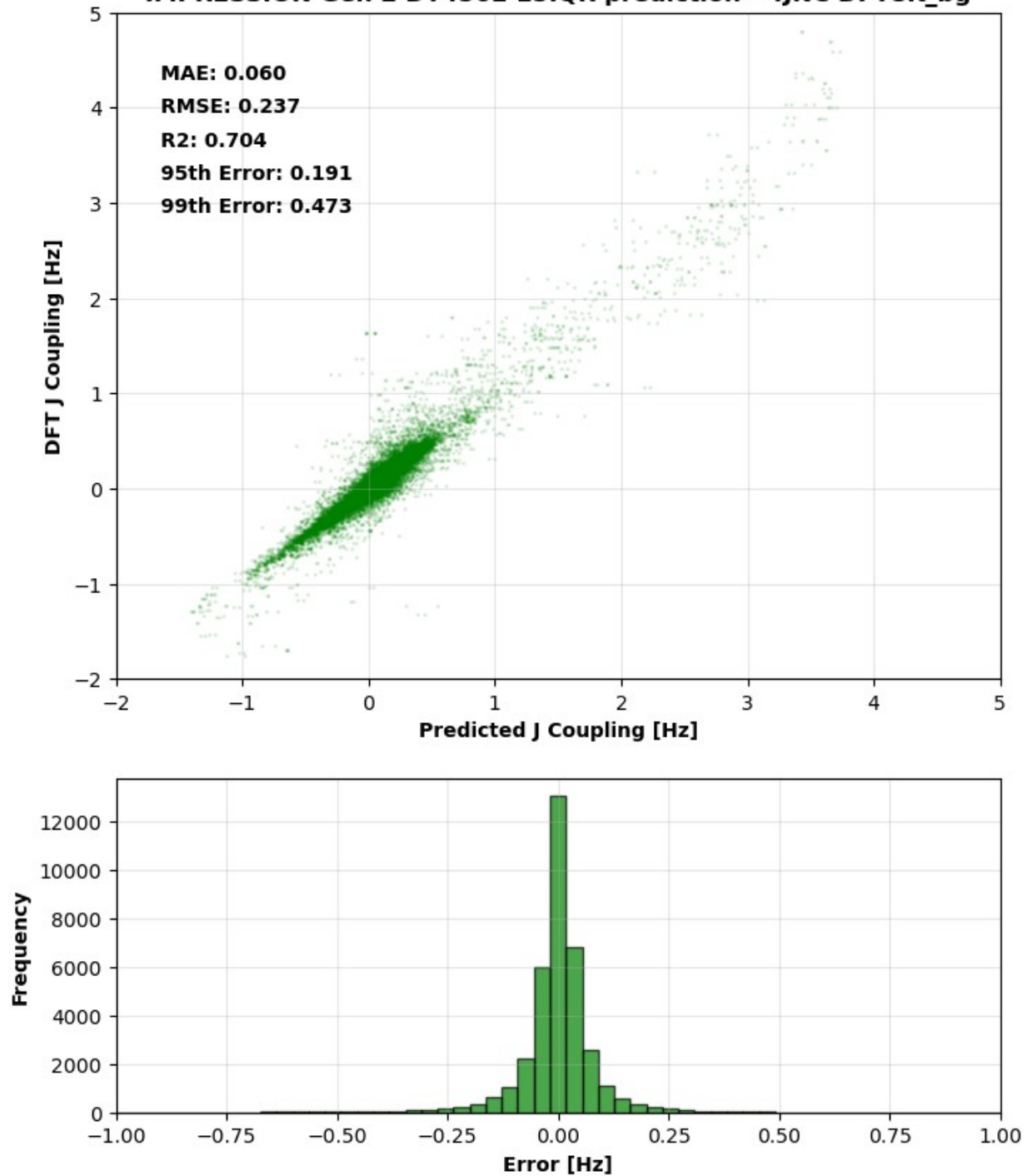


Data3



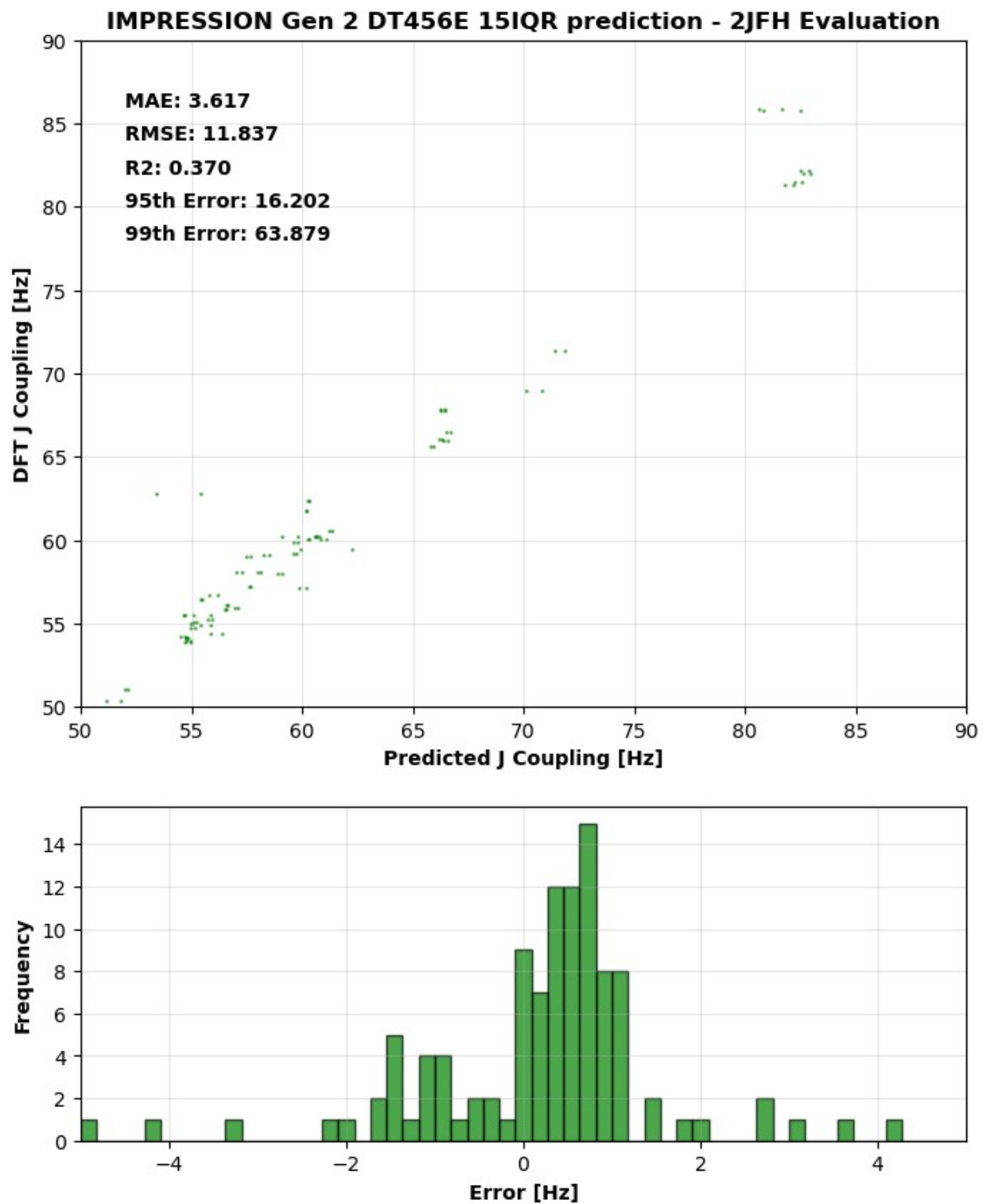
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 4JNC DFT8K\_bg**

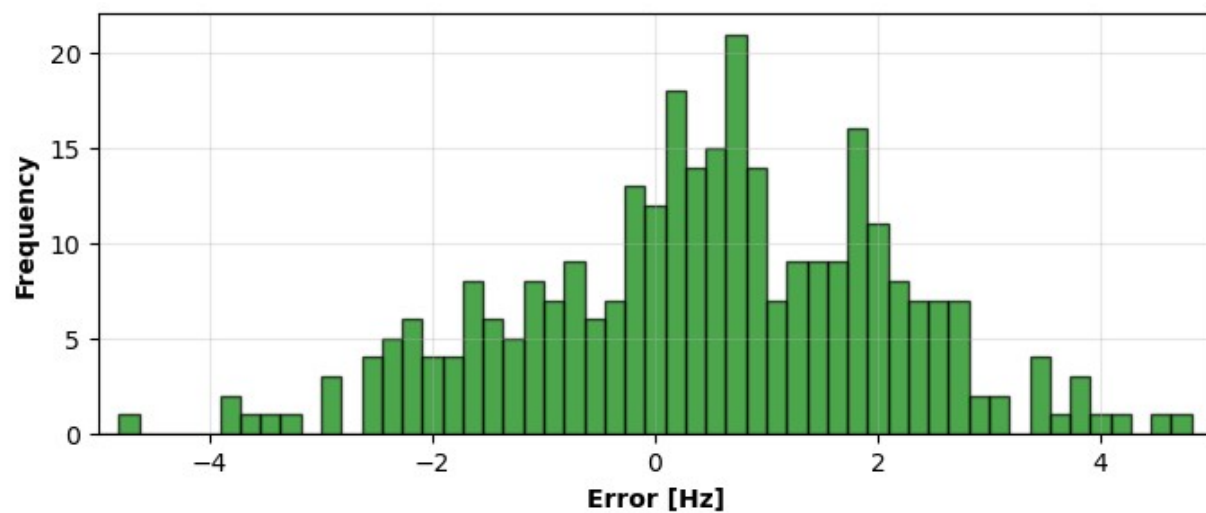
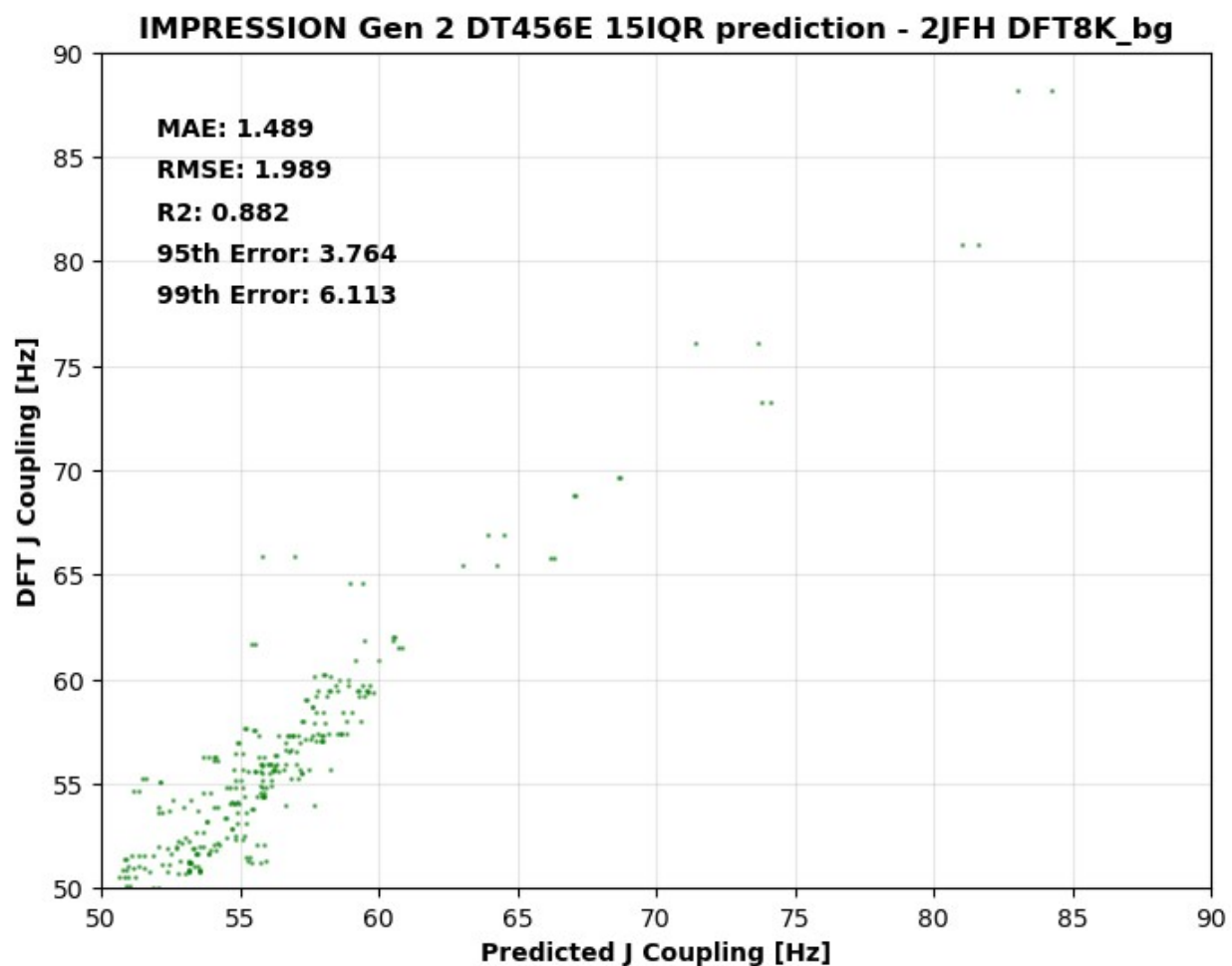


## S2.2.24 $^2J_{FH}$

Holdout

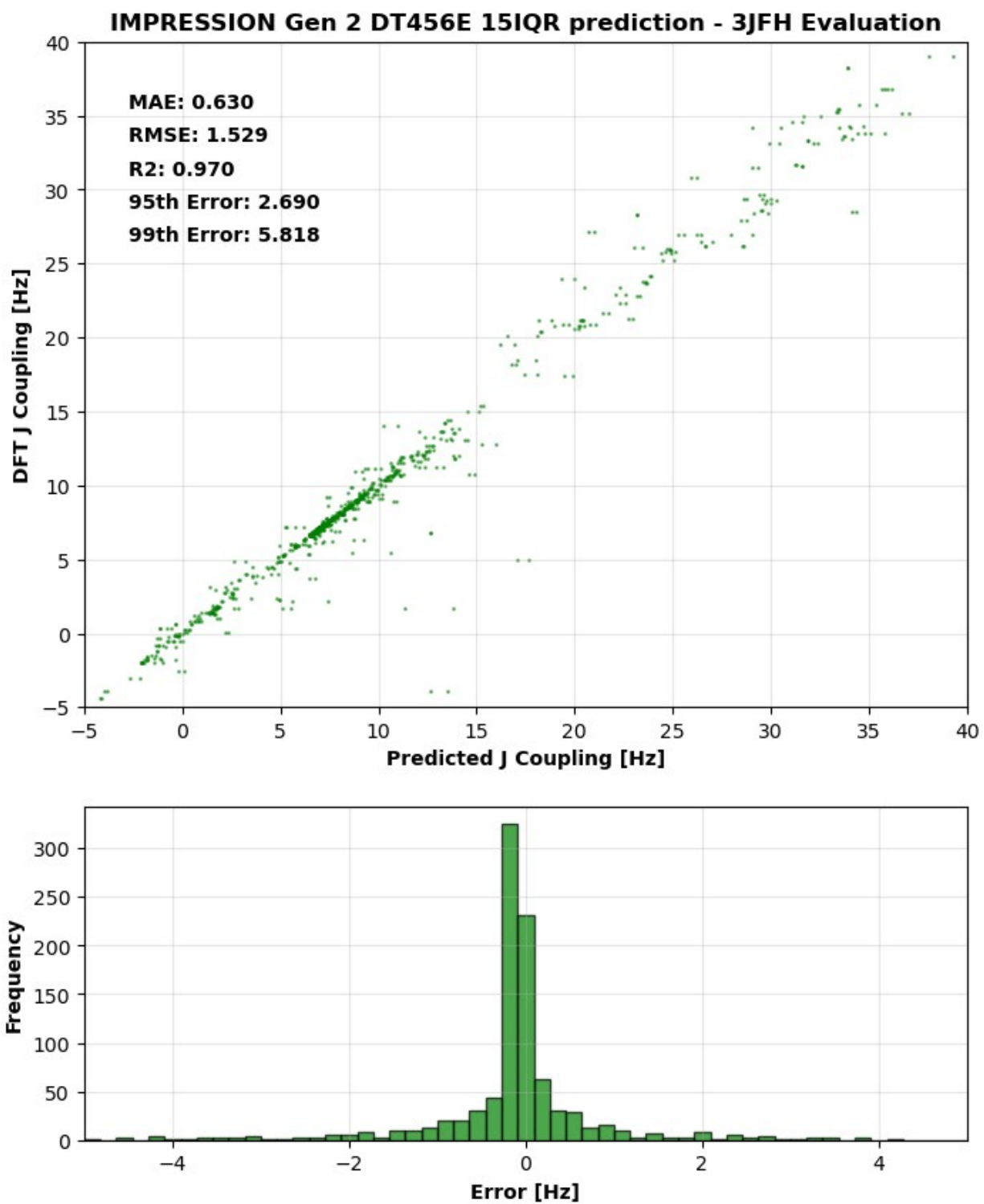


DFT8K\_bg



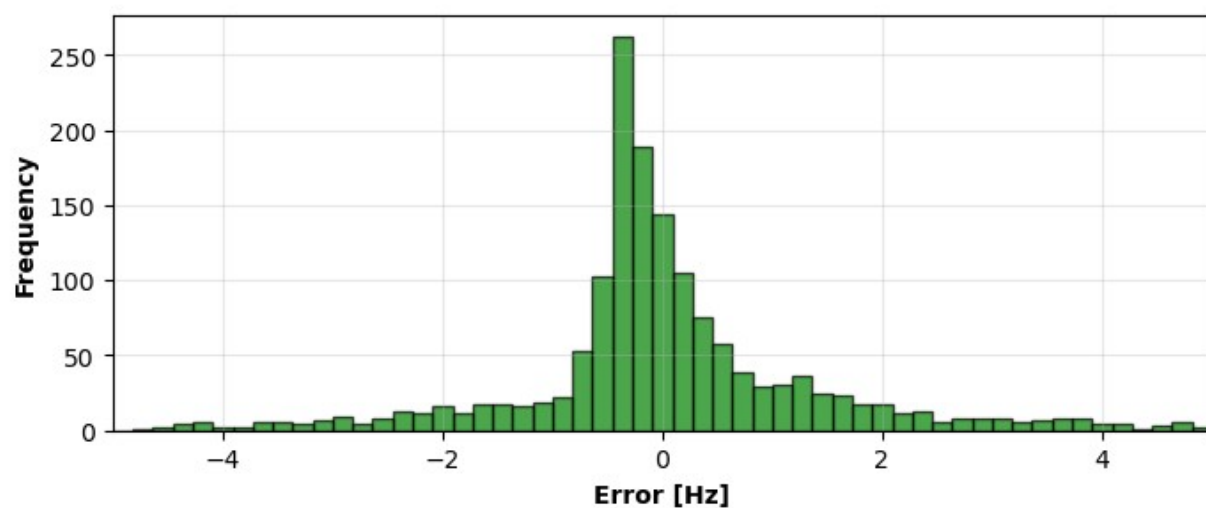
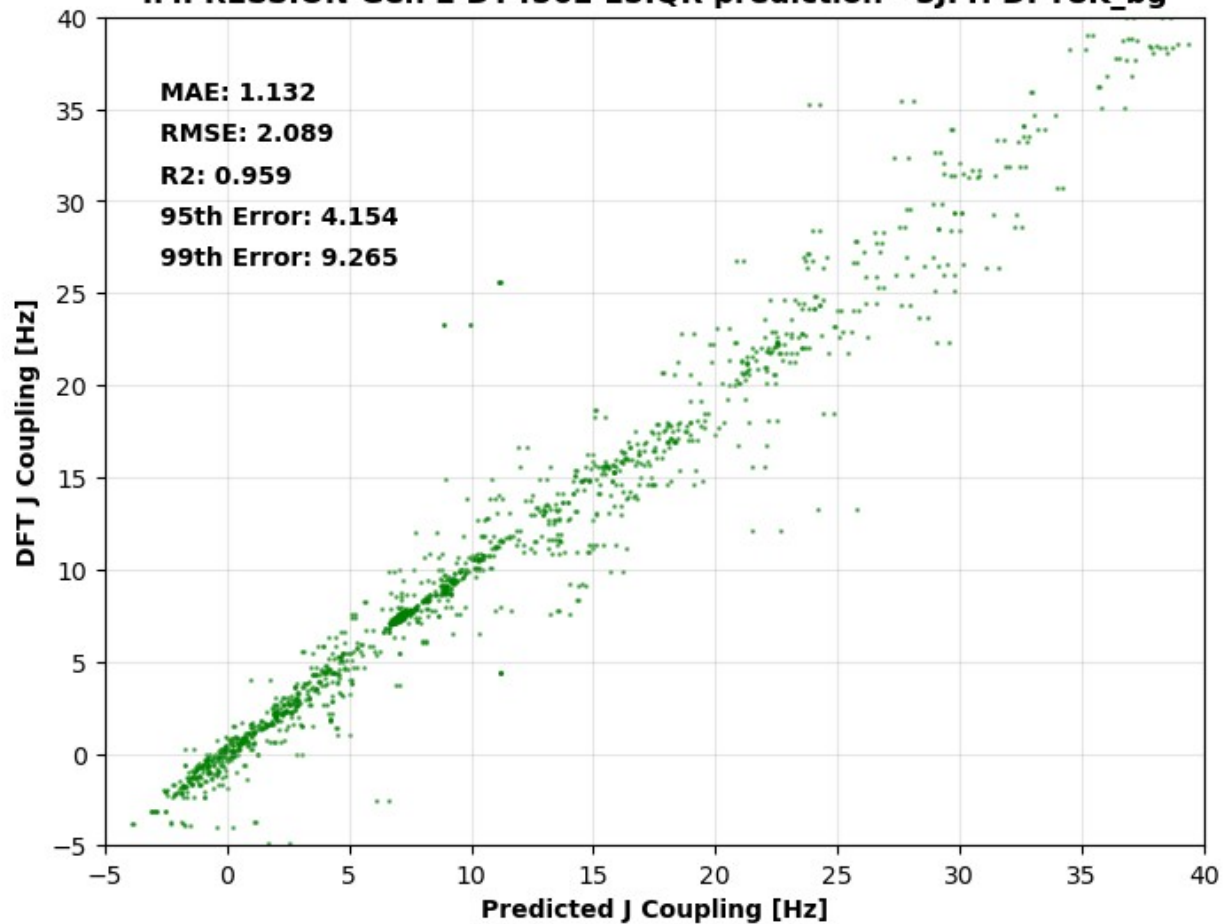
### S2.2.25 $^3J_{FH}$

Holdout



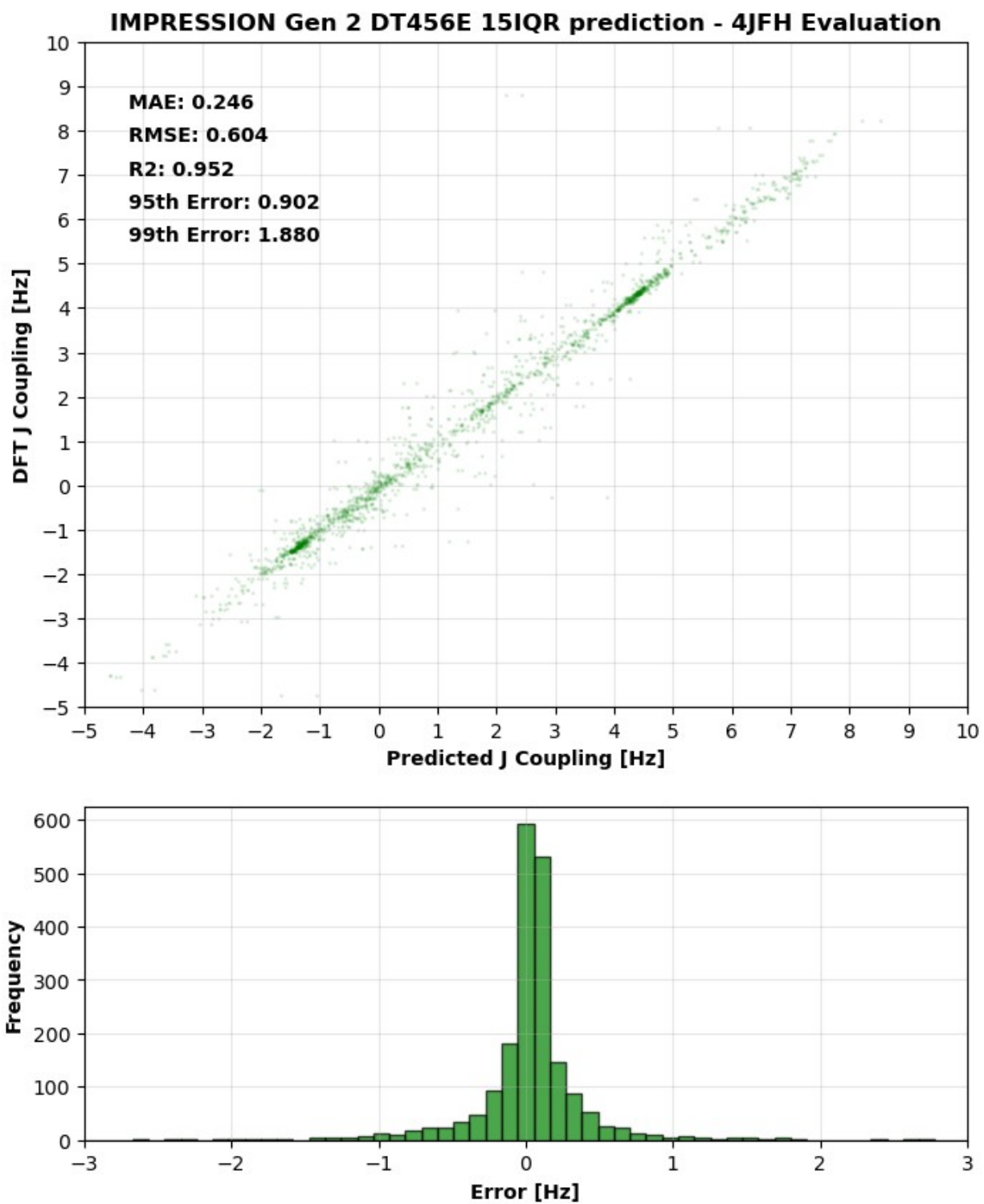
DFT8K\_bg

### IMPRESSION Gen 2 DT456E 15IQR prediction - 3JFH DFT8K\_bg



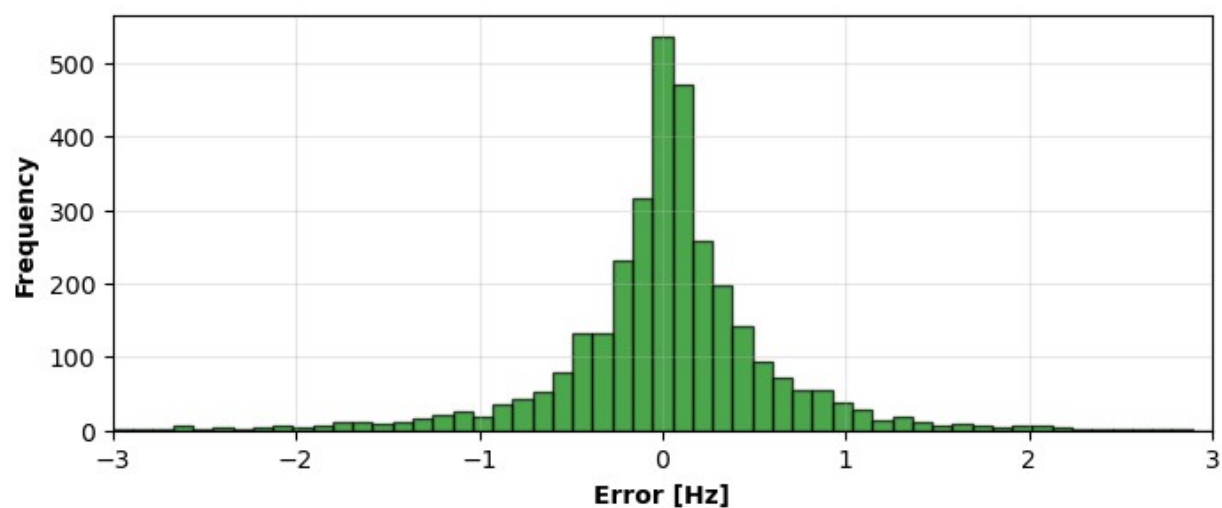
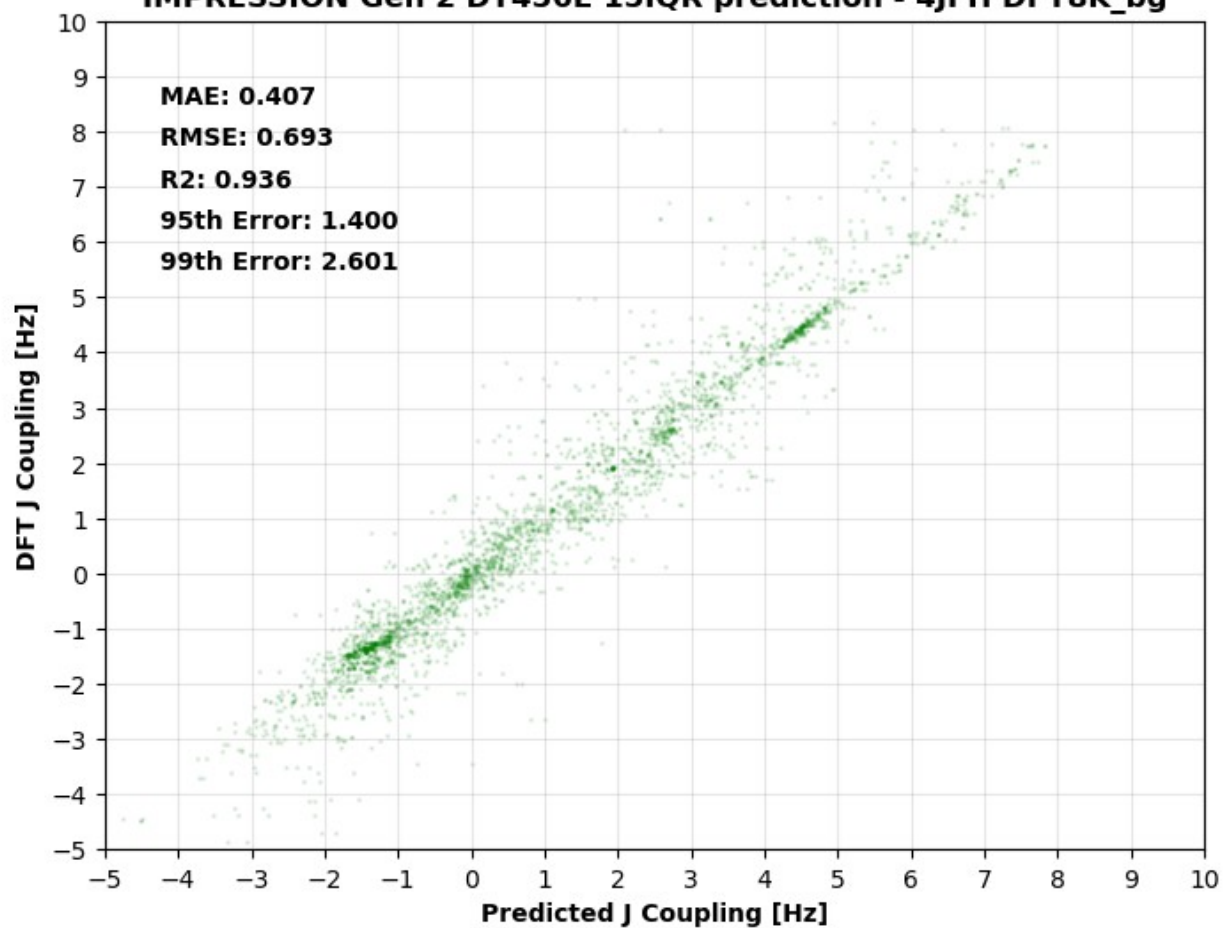
## S2.2.26 $^4J_{FH}$

Holdout



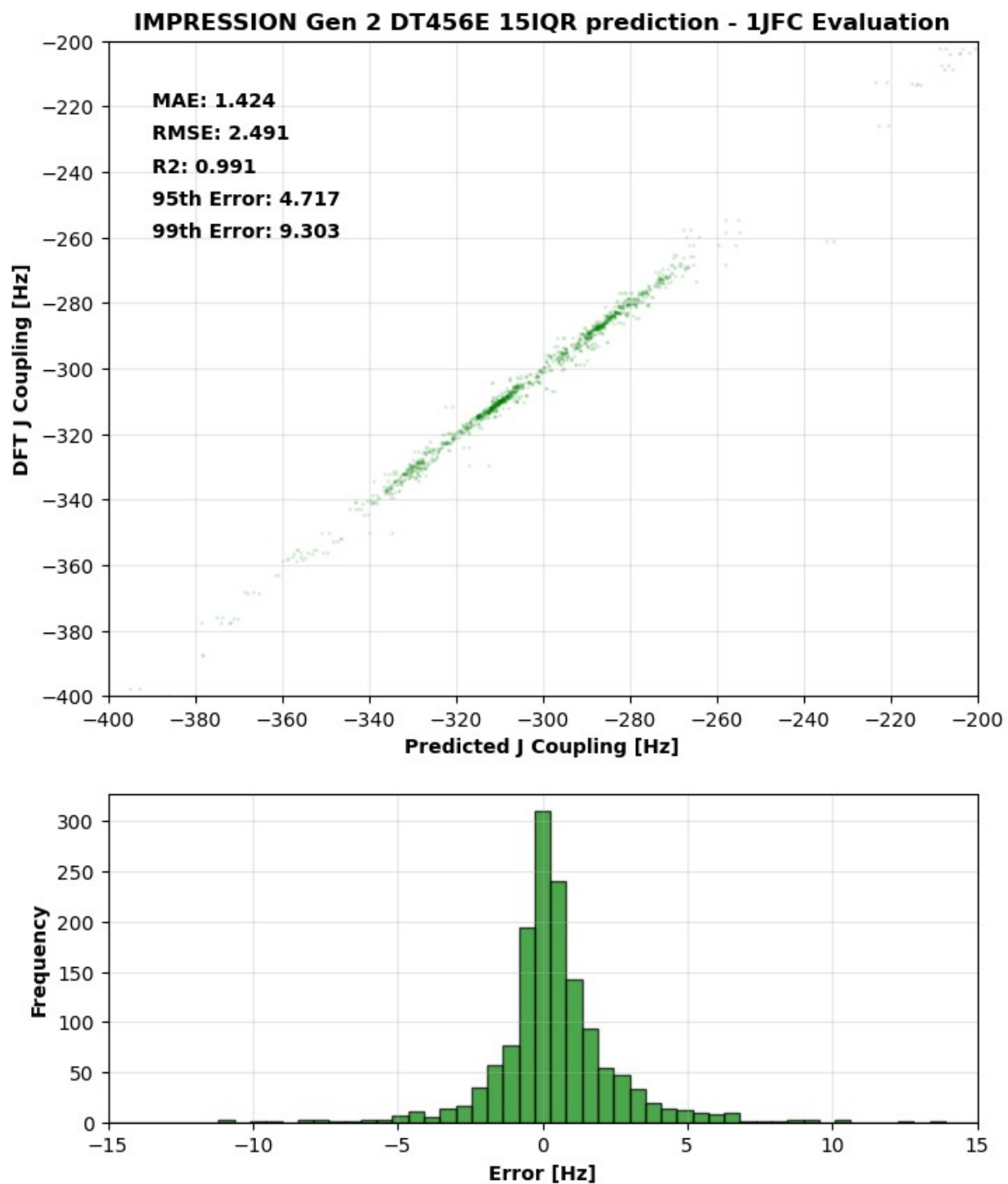
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 4JFH DFT8K\_bg**



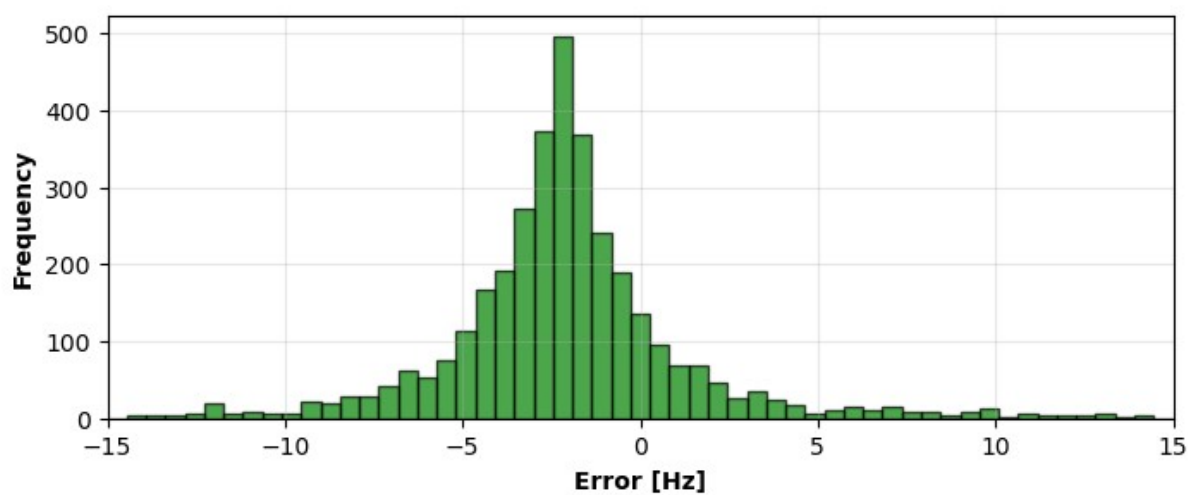
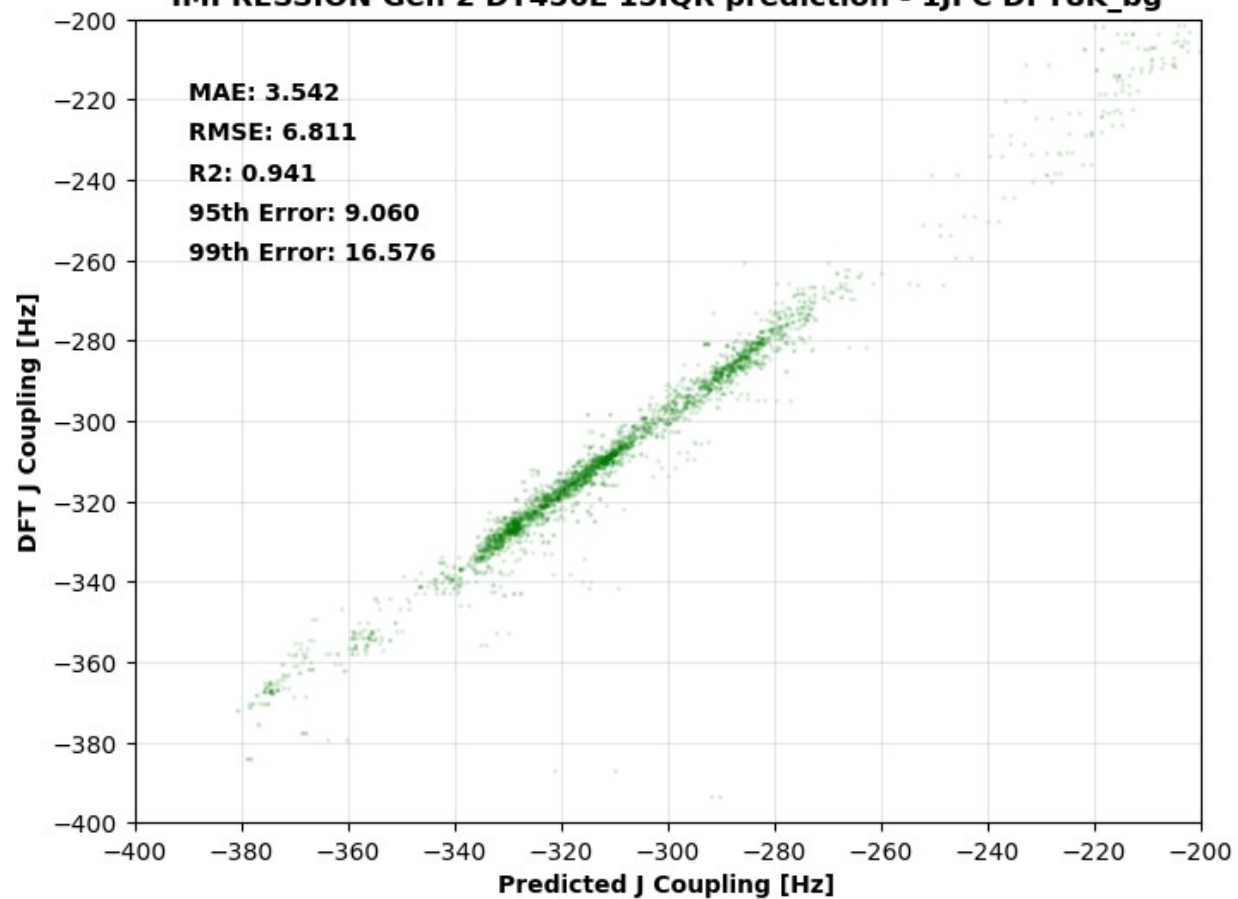
### S2.2.27 $^1J_{FC}$

Holdout



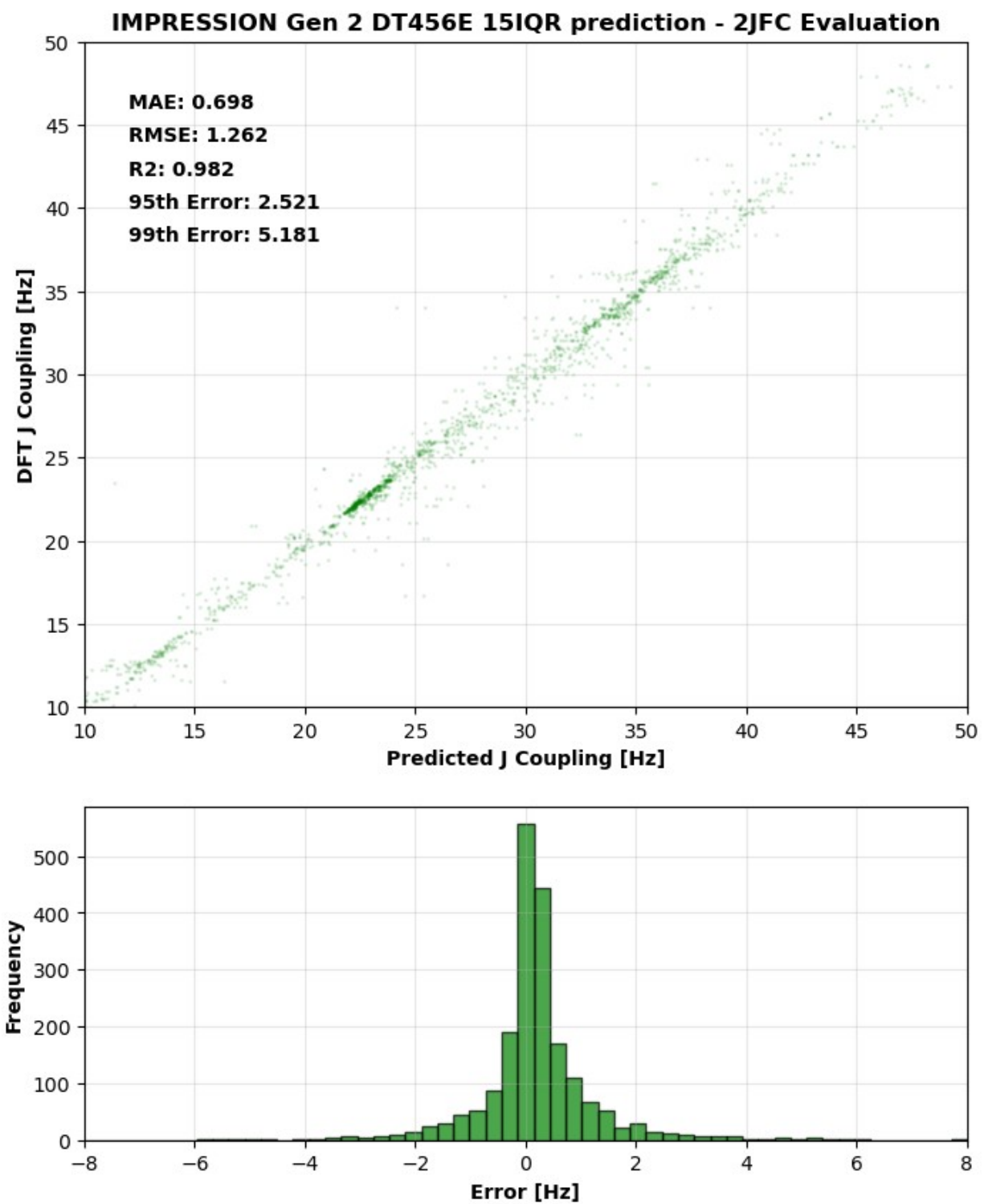
DFT8K\_bg

# IMPRESSION Gen 2 DT456E 15IQR prediction - 1JFC DFT8K\_bg



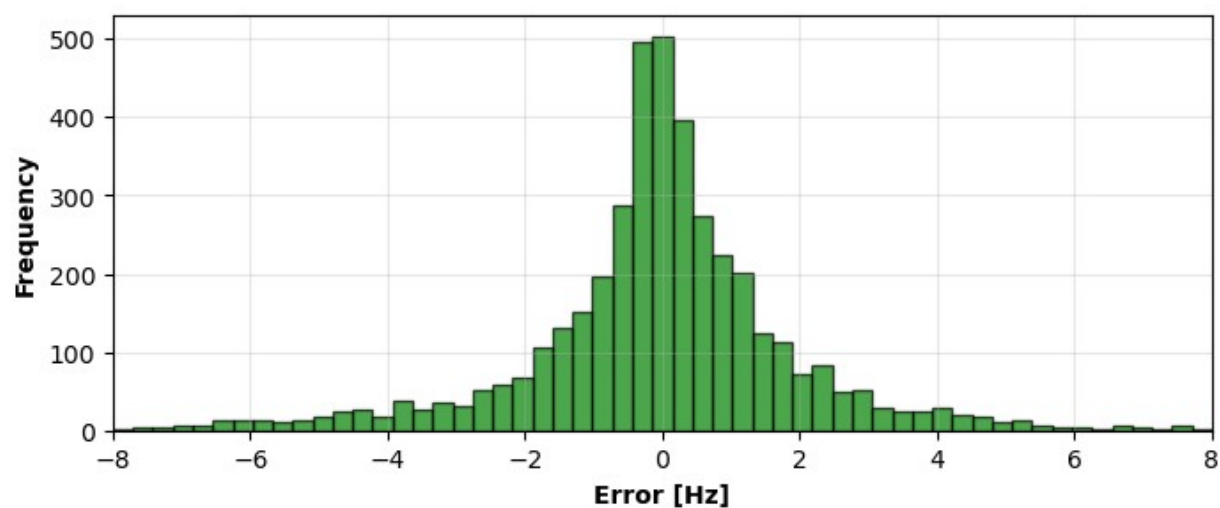
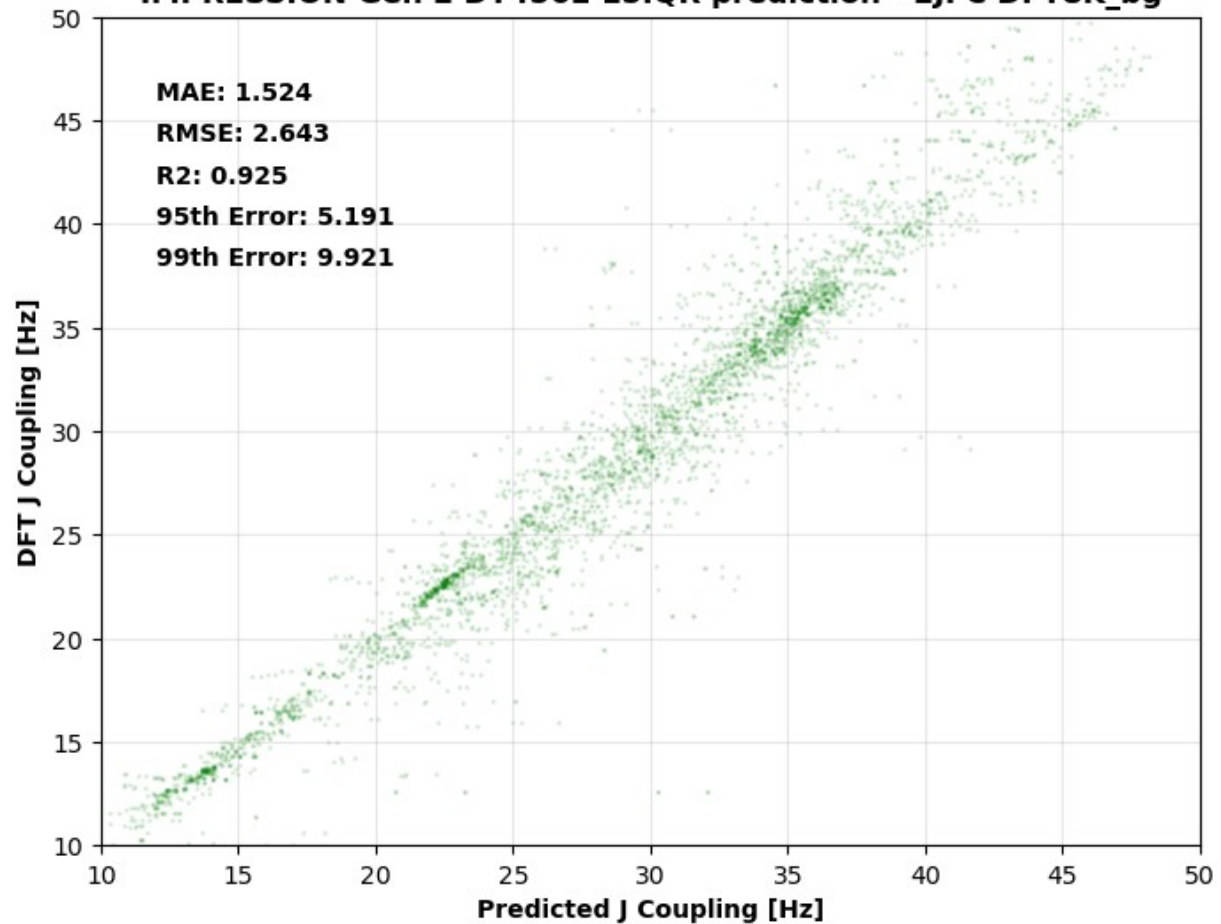
## S2.2.28 $^2J_{FC}$

Holdout



DFT8K\_bg

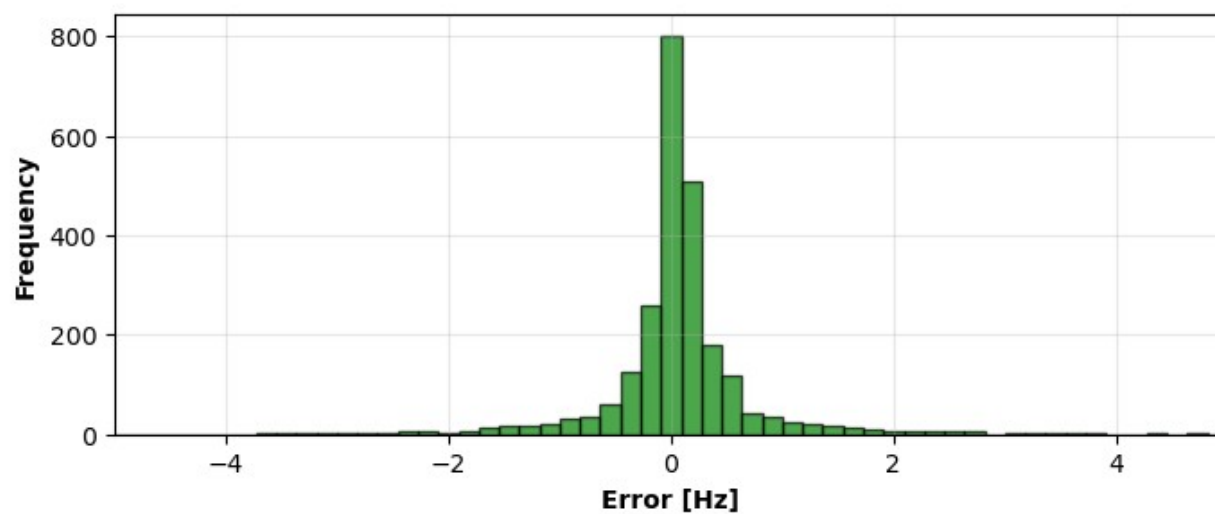
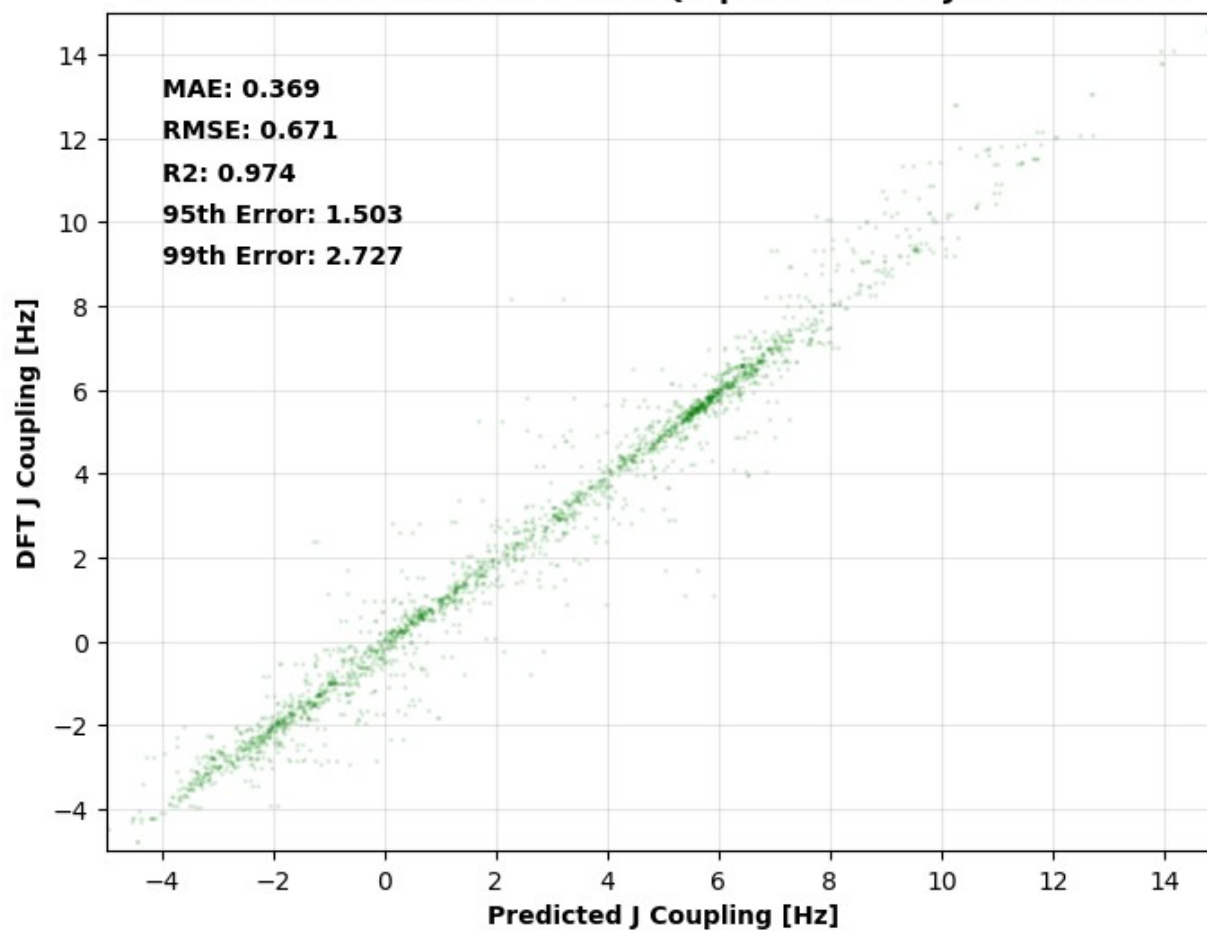
**IMPRESSION Gen 2 DT456E 15IQR prediction - 2JFC DFT8K\_bg**



### S2.2.29 $^3J_{FC}$

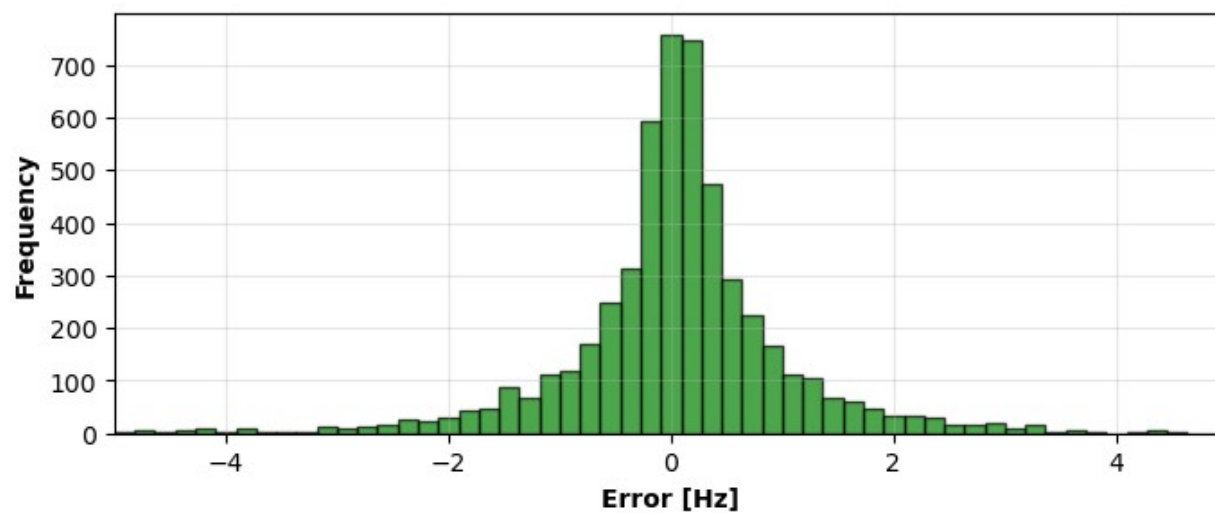
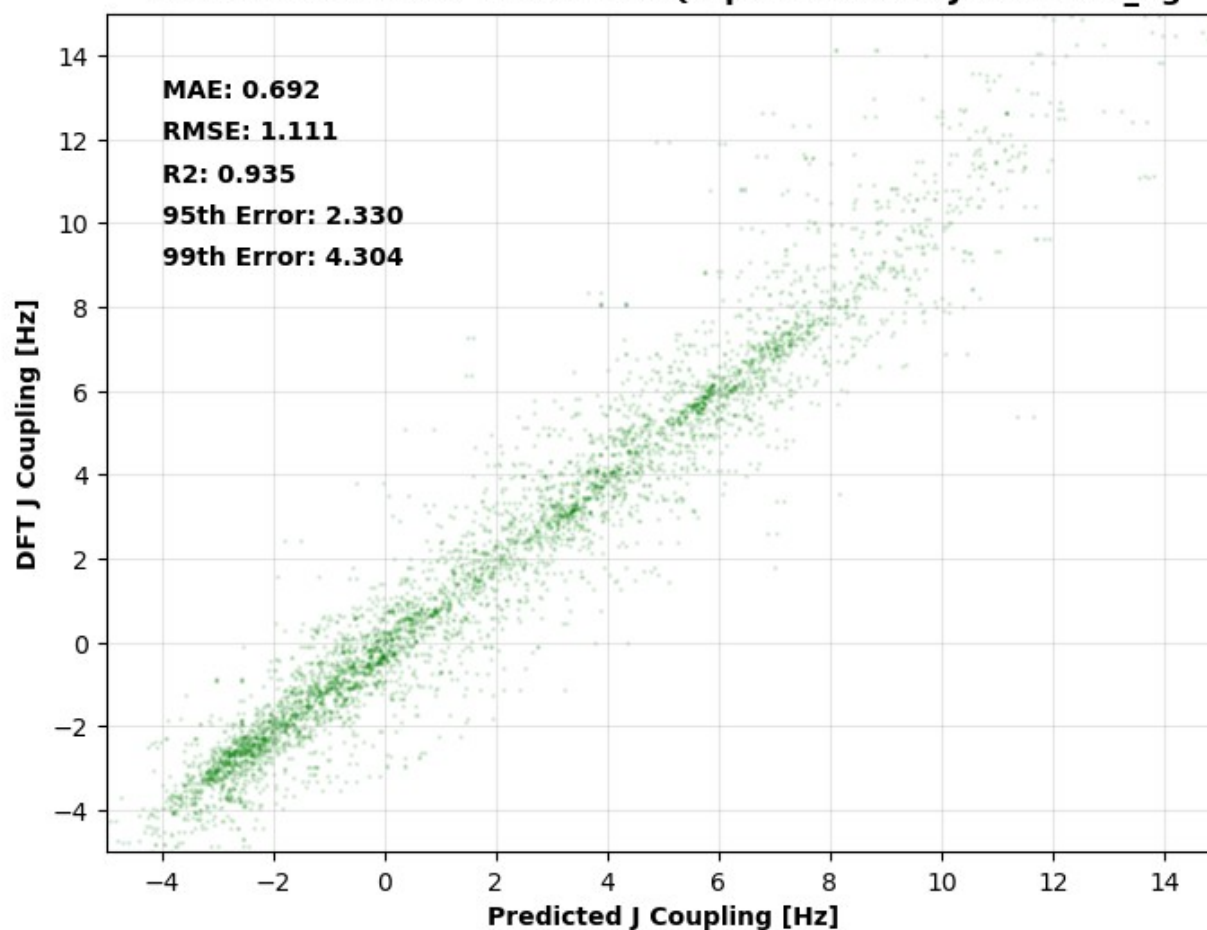
Holdout

**IMPRESSION Gen 2 DT456E 15IQR prediction -  $^3J_{FC}$  Evaluation**



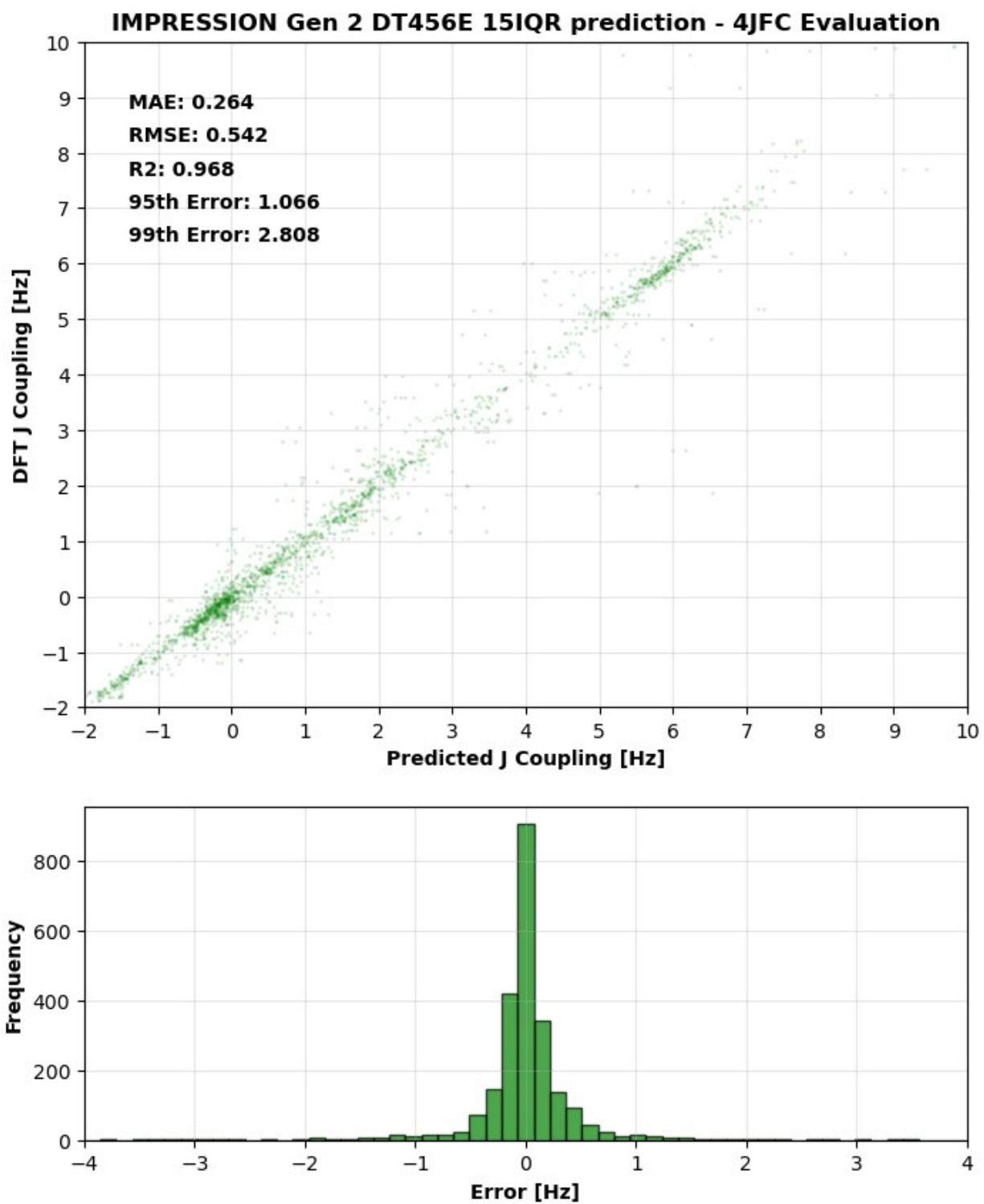
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 3JFC DFT8K\_bg**



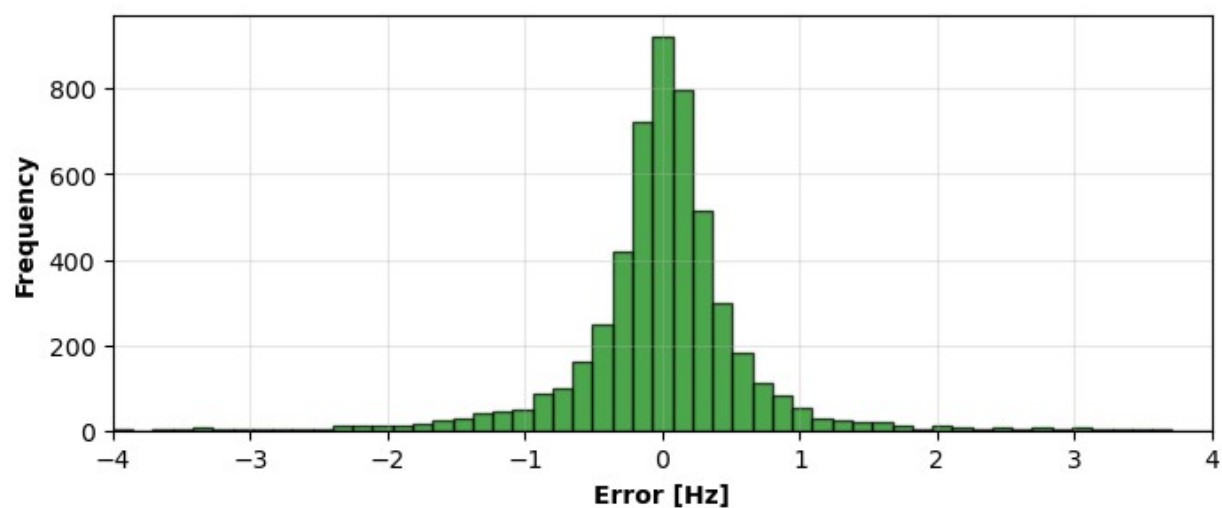
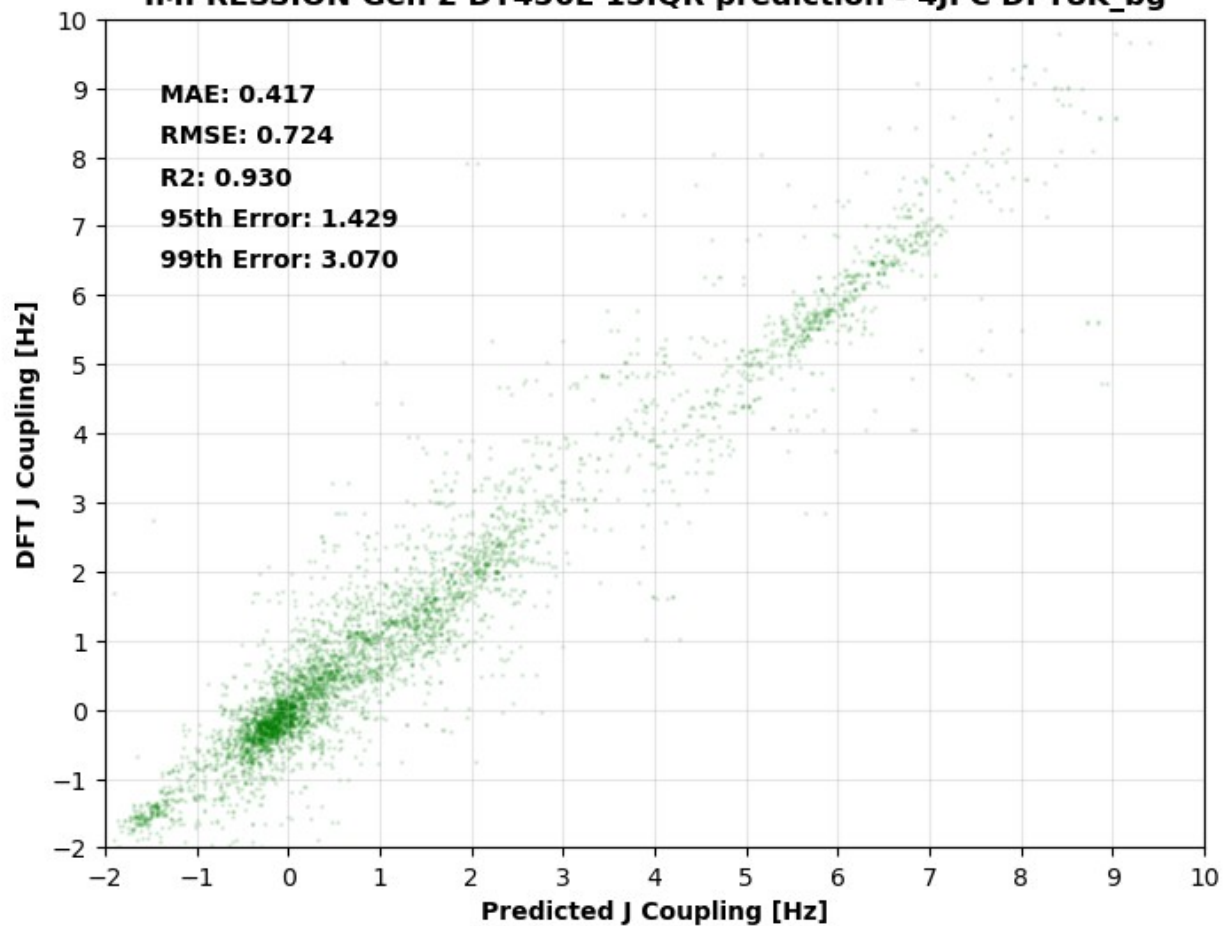
### S2.2.30 $^4J_{FC}$

Holdout



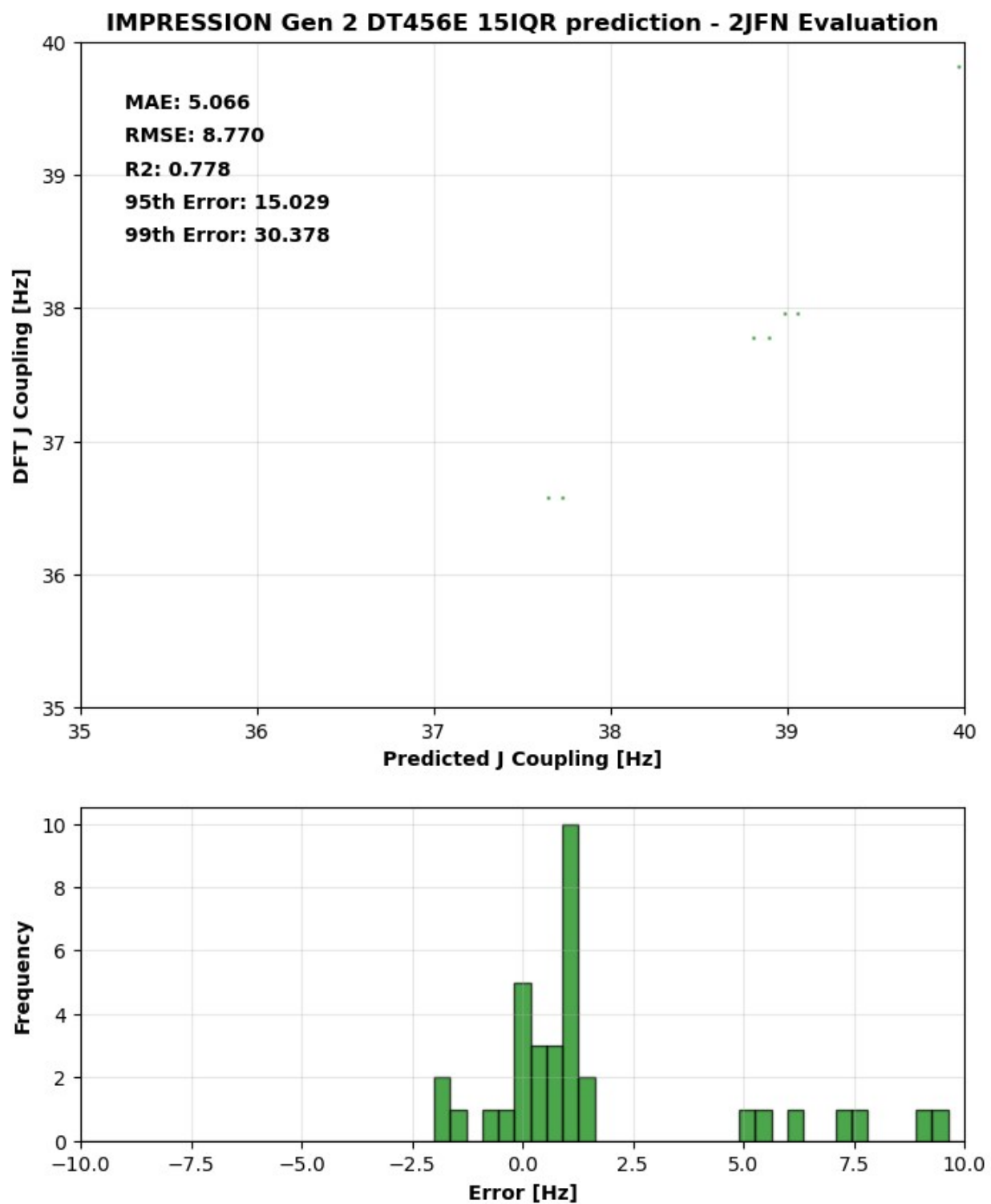
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 4JFC DFT8K\_bg**



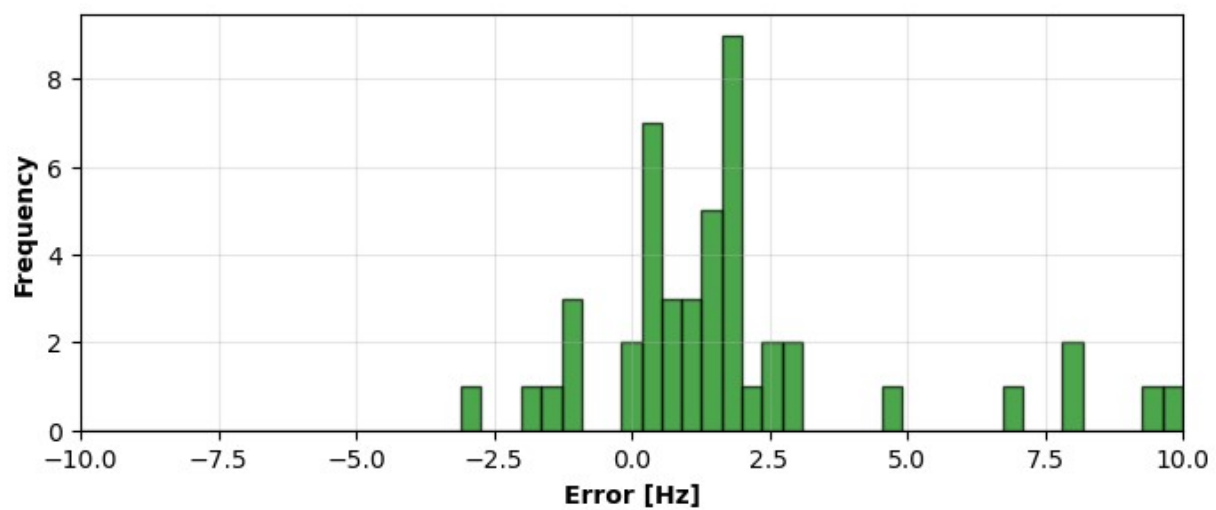
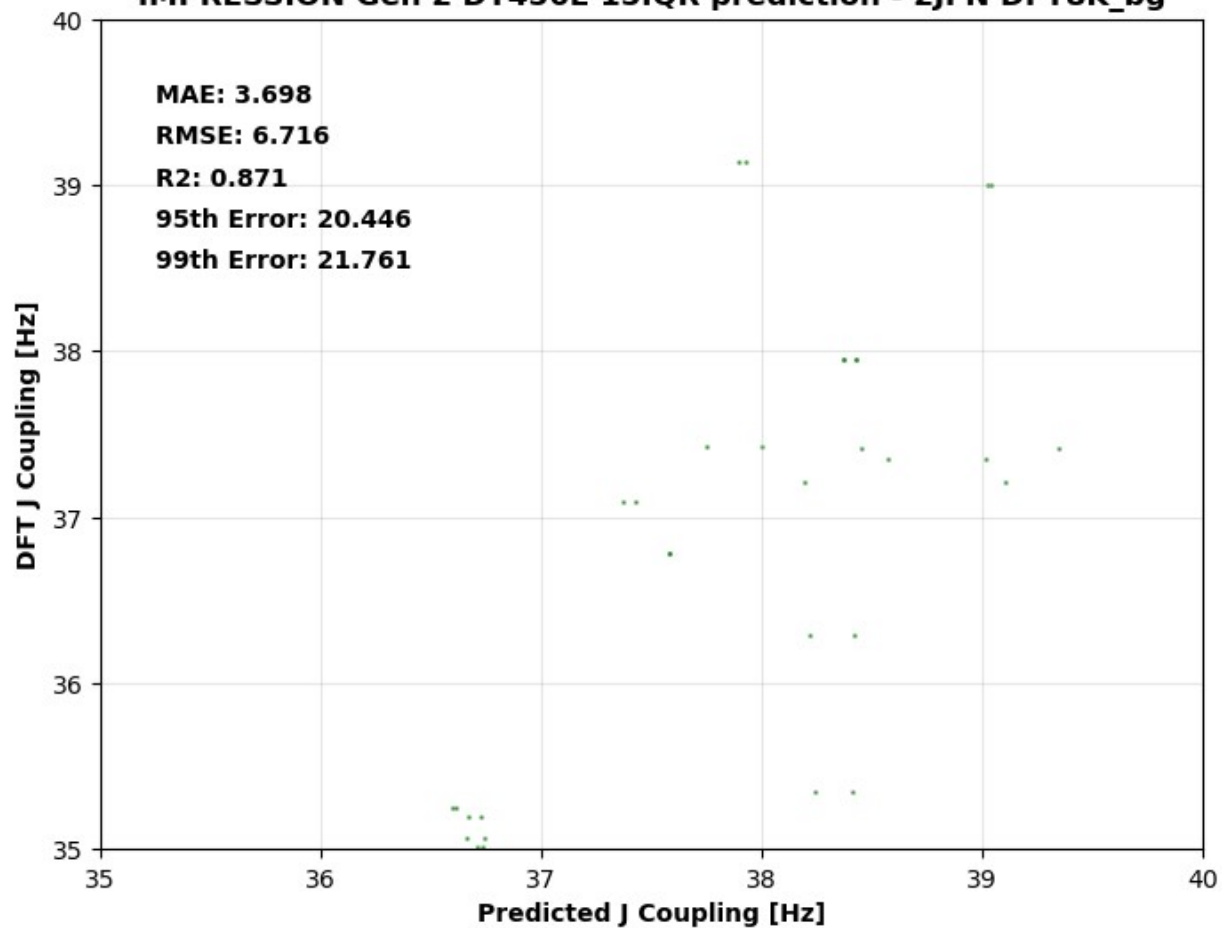
### S2.2.31 $^2J_{\text{FN}}$

Holdout



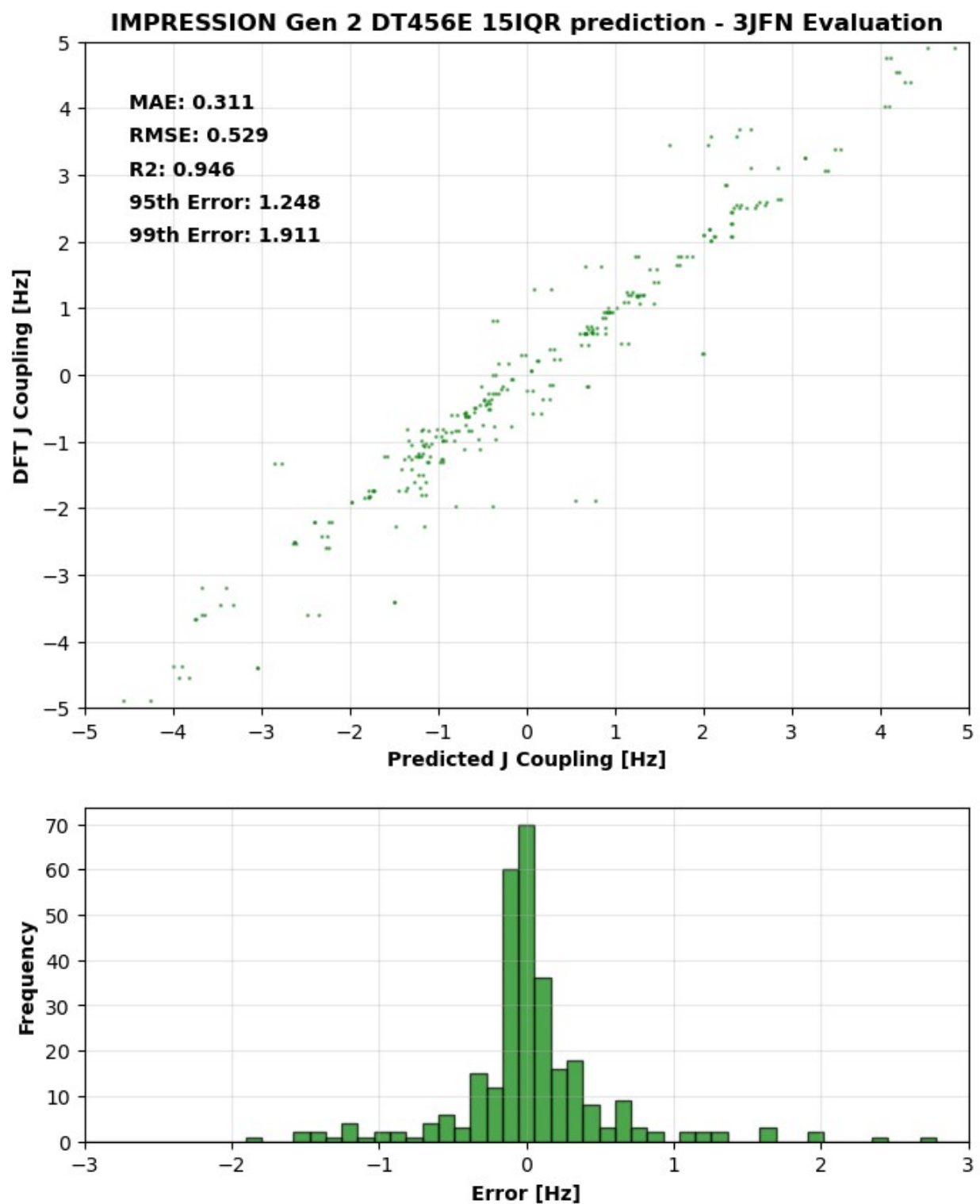
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 2JFN DFT8K\_bg**

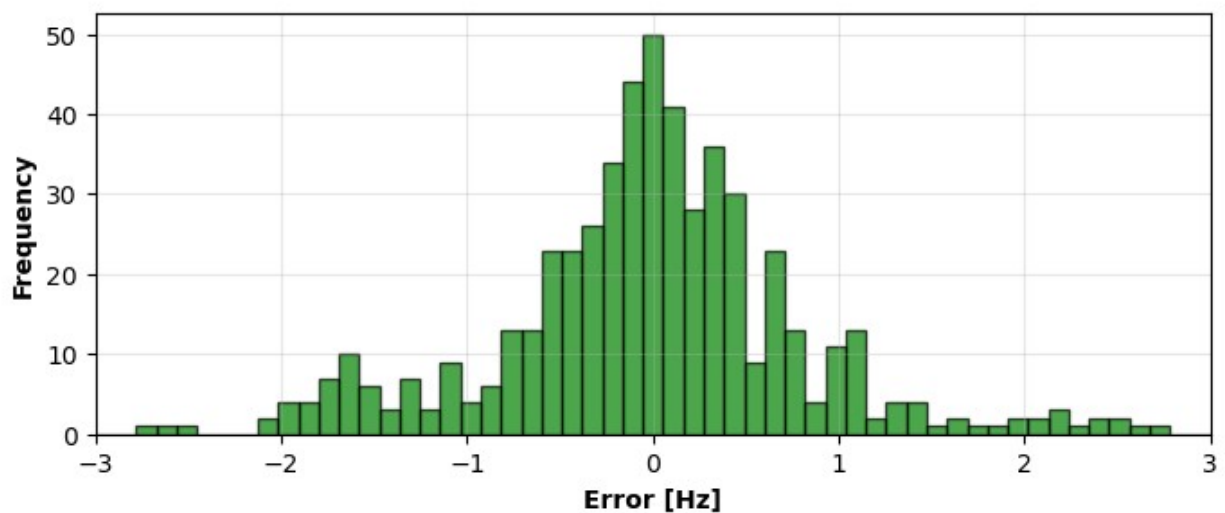
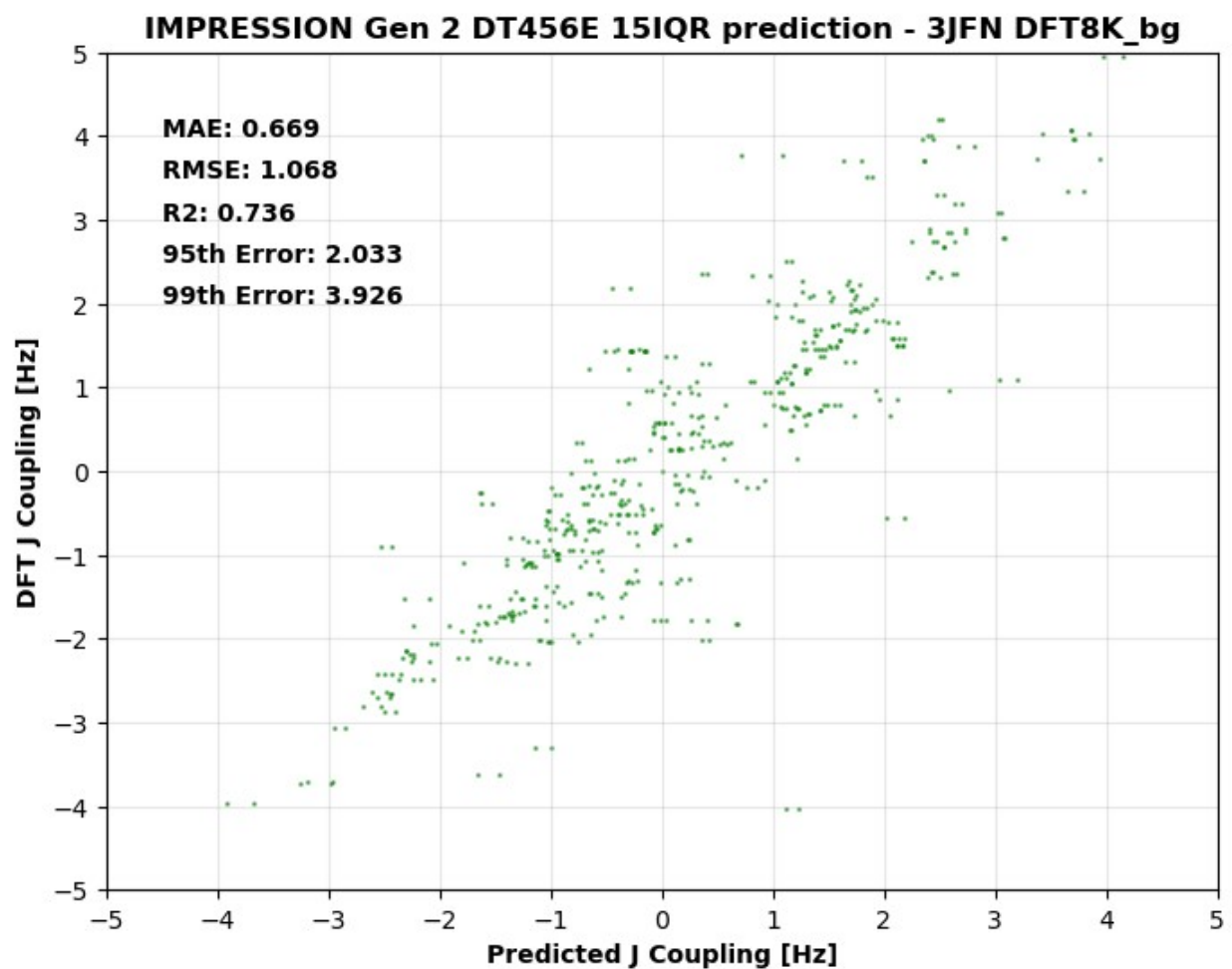


### S2.2.32 $^3J_{\text{FN}}$

Holdout

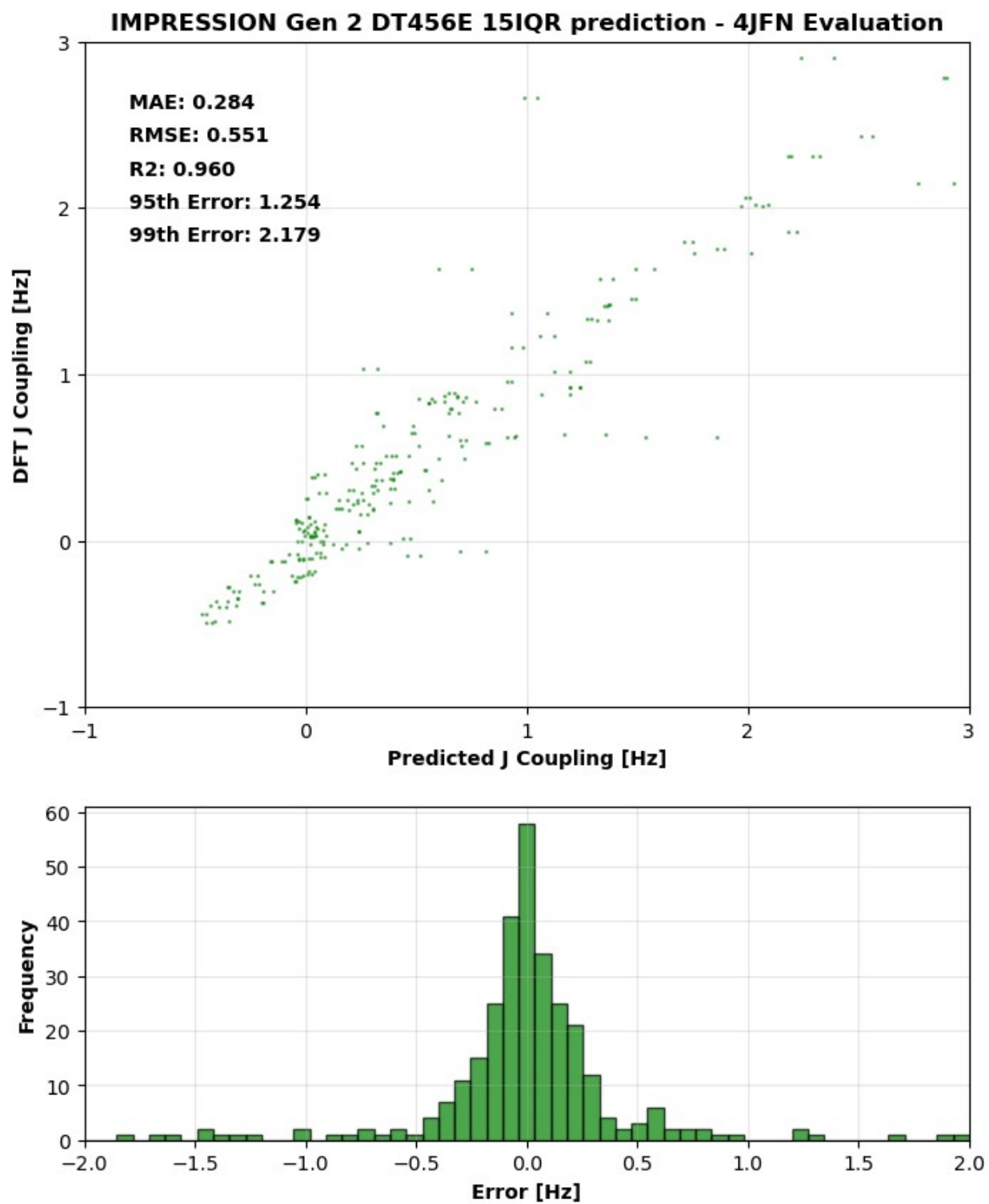


DFT8K\_bg

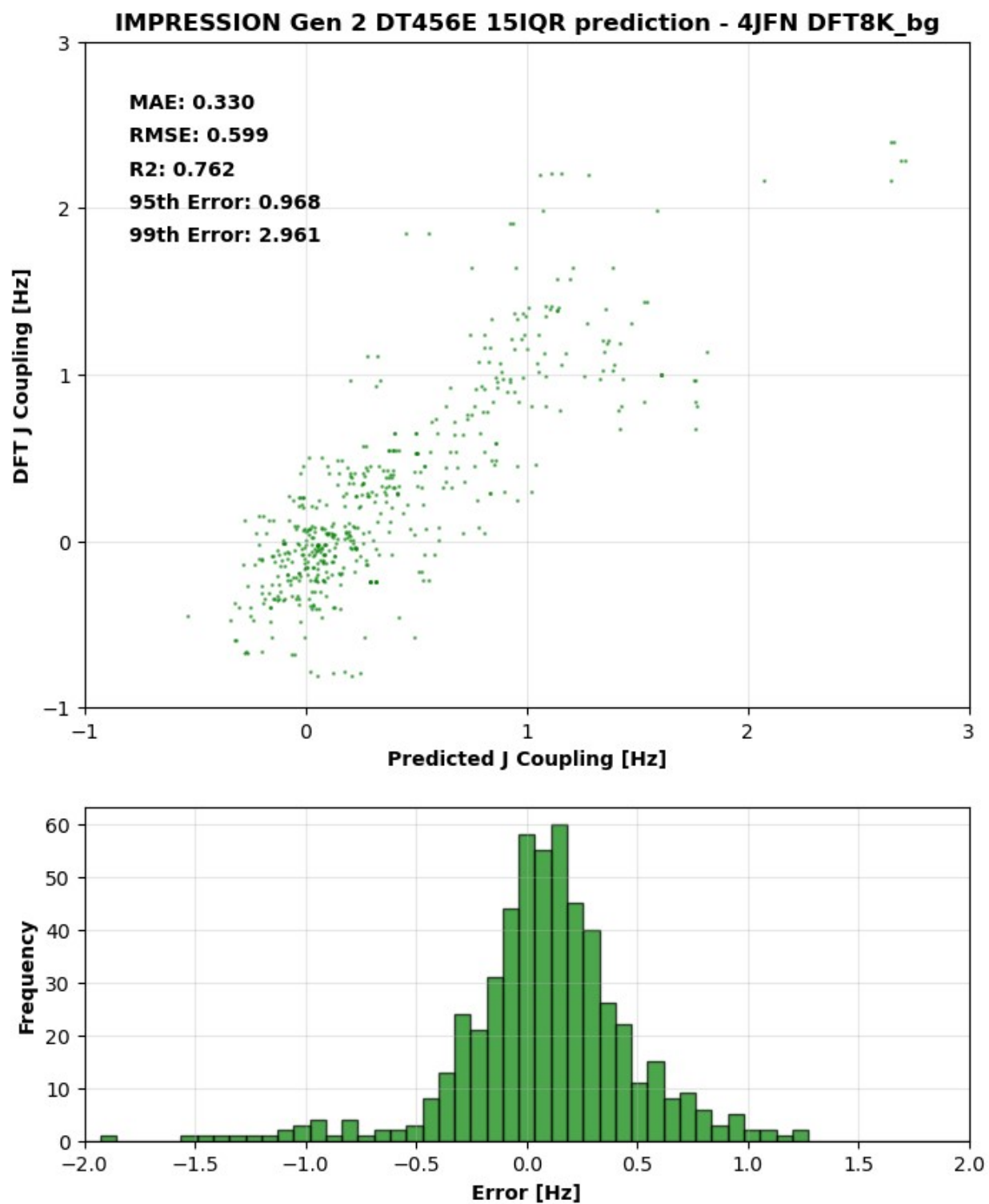


### S2.2.33 $^4J_{\text{FN}}$

Holdout

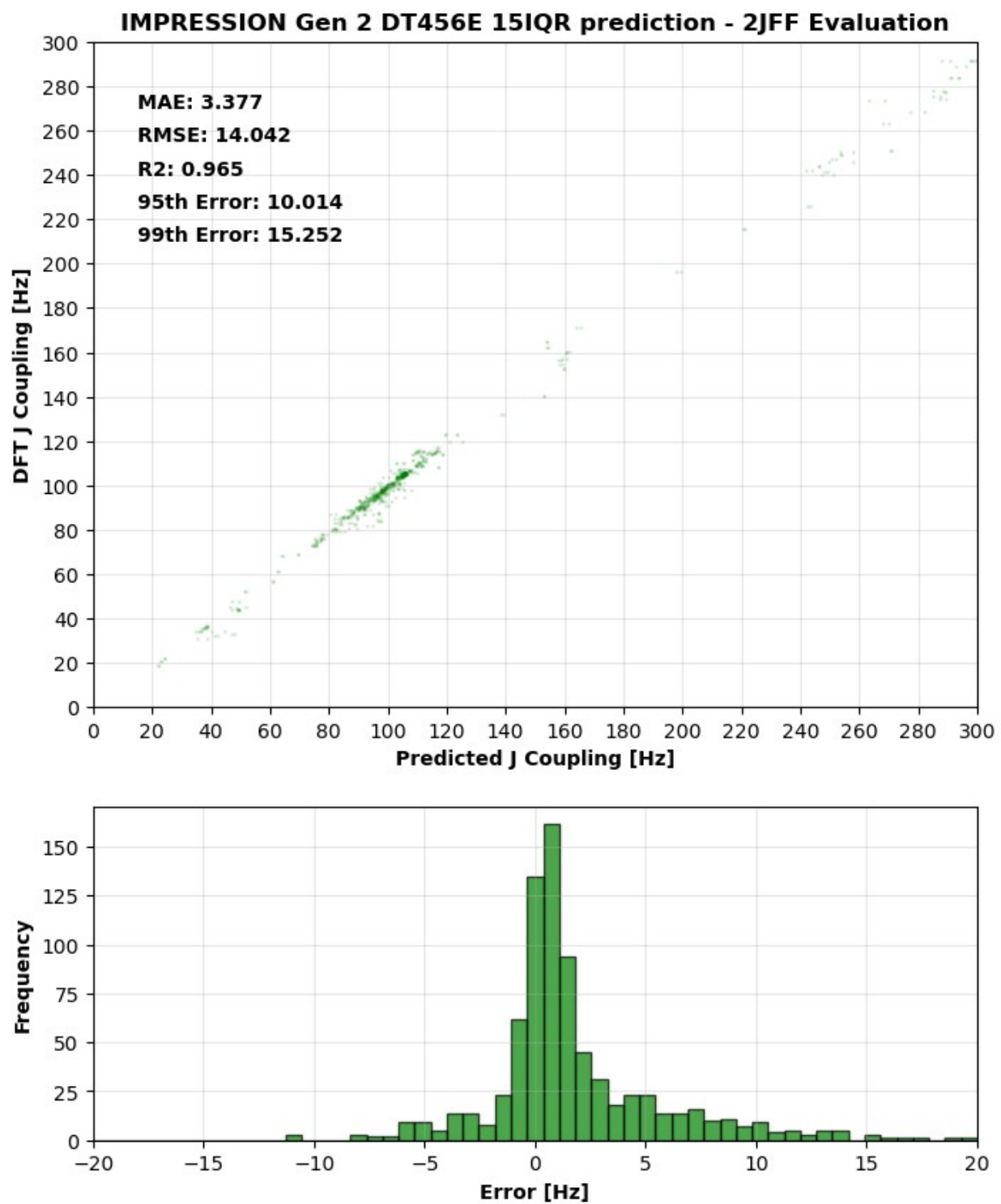


DFT8K\_bg



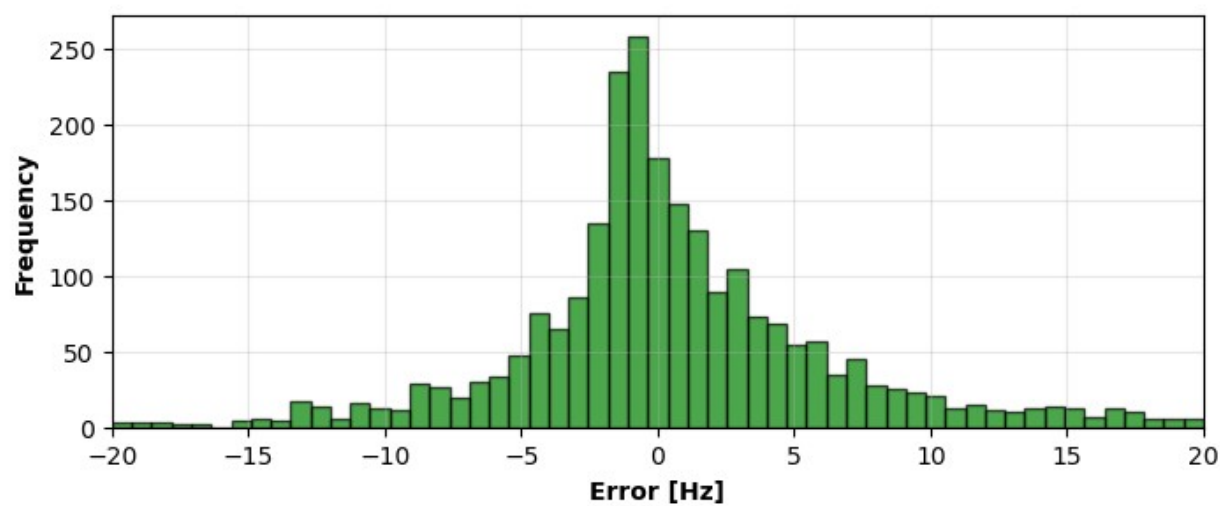
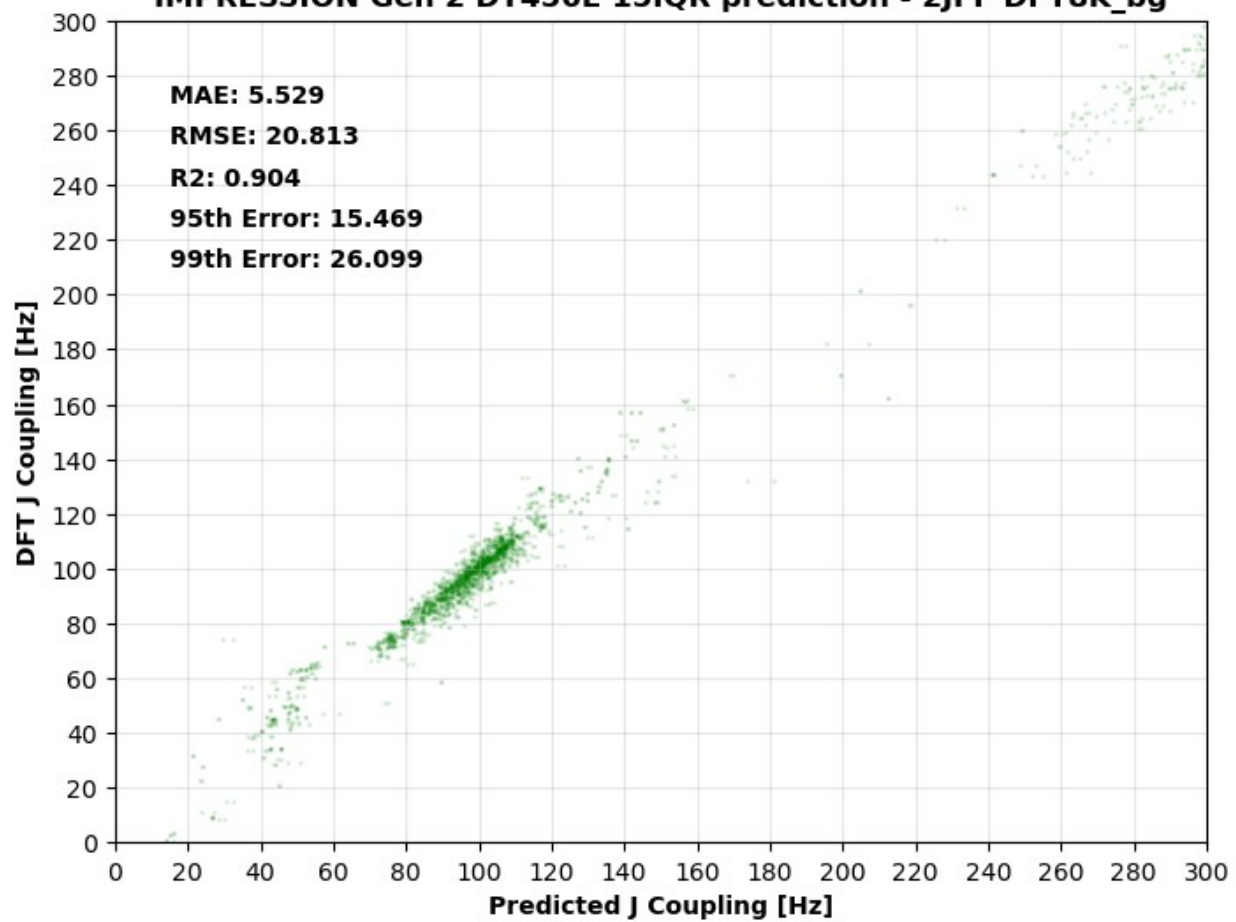
### S2.2.34 $^2J_{FF}$

Holdout



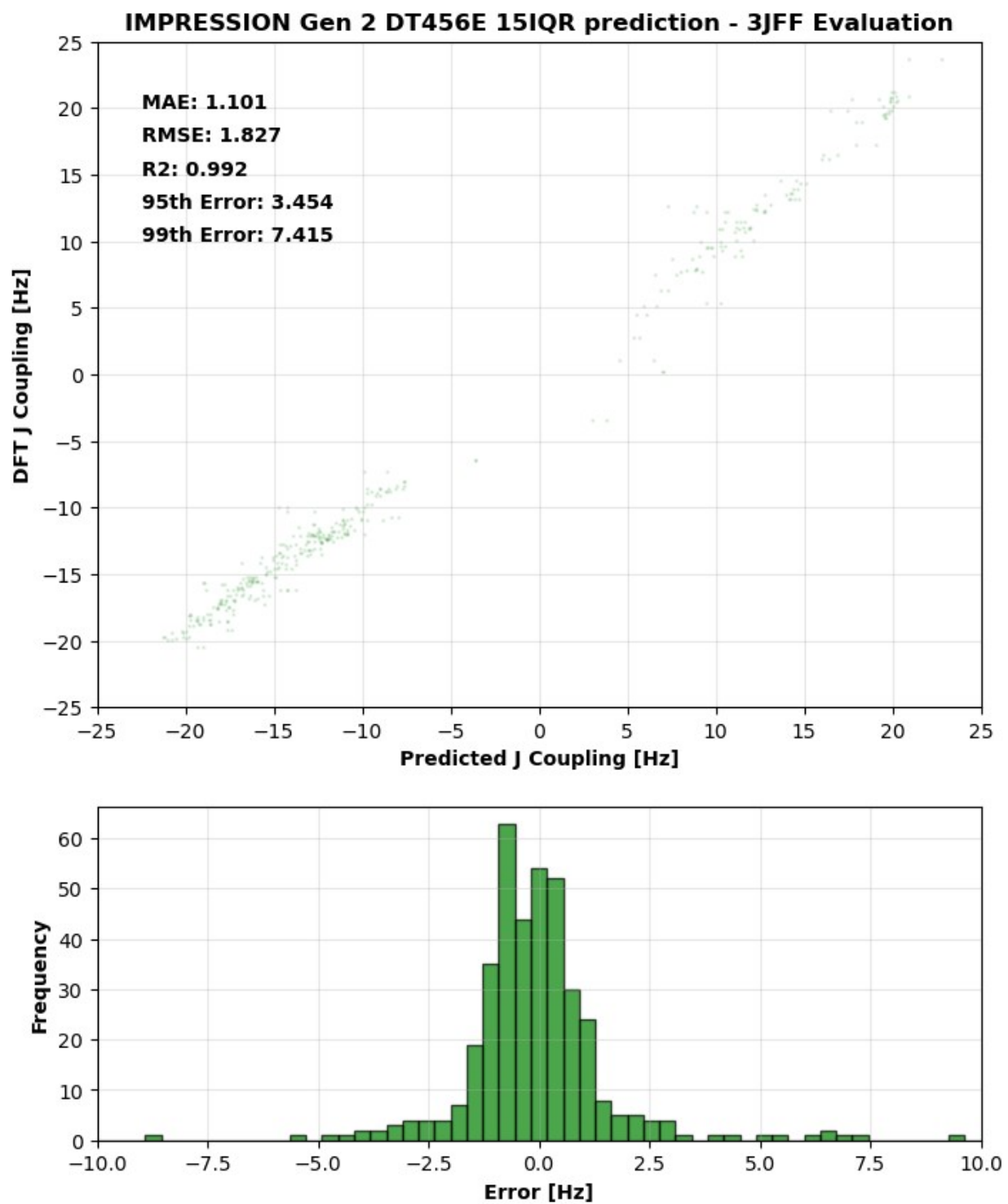
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 2JFF DFT8K\_bg**



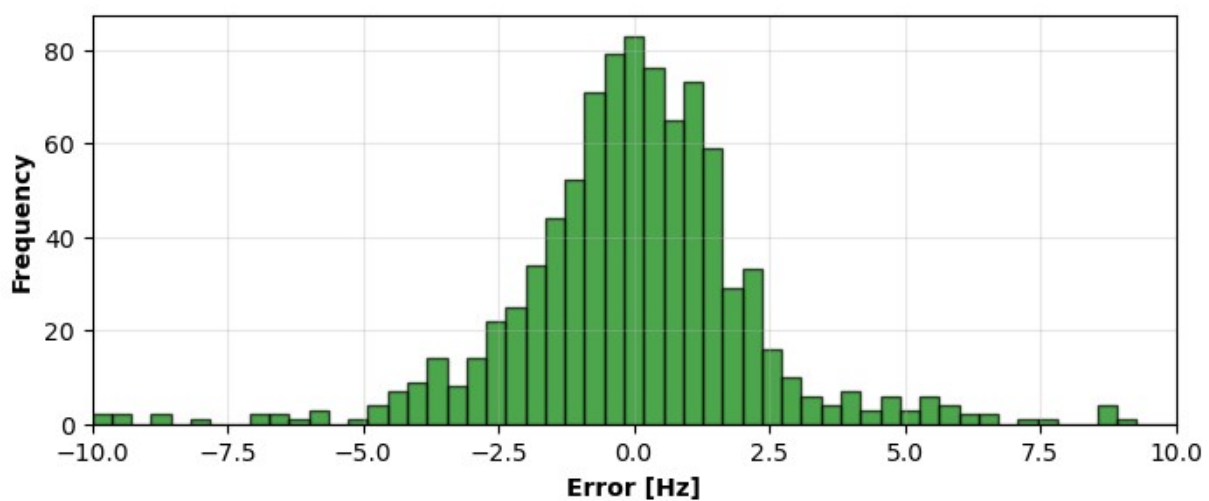
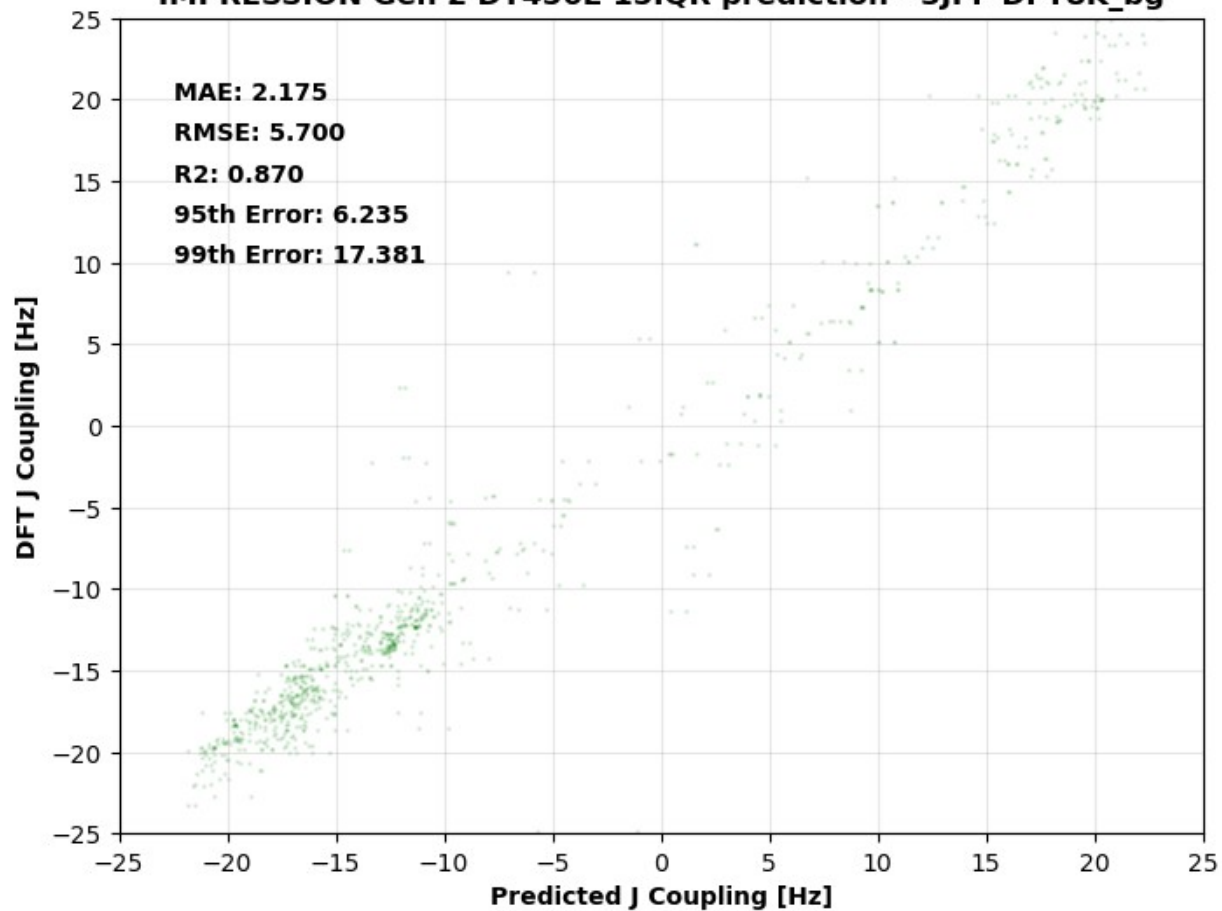
## S2.2.35 $^3J_{FF}$

Holdout



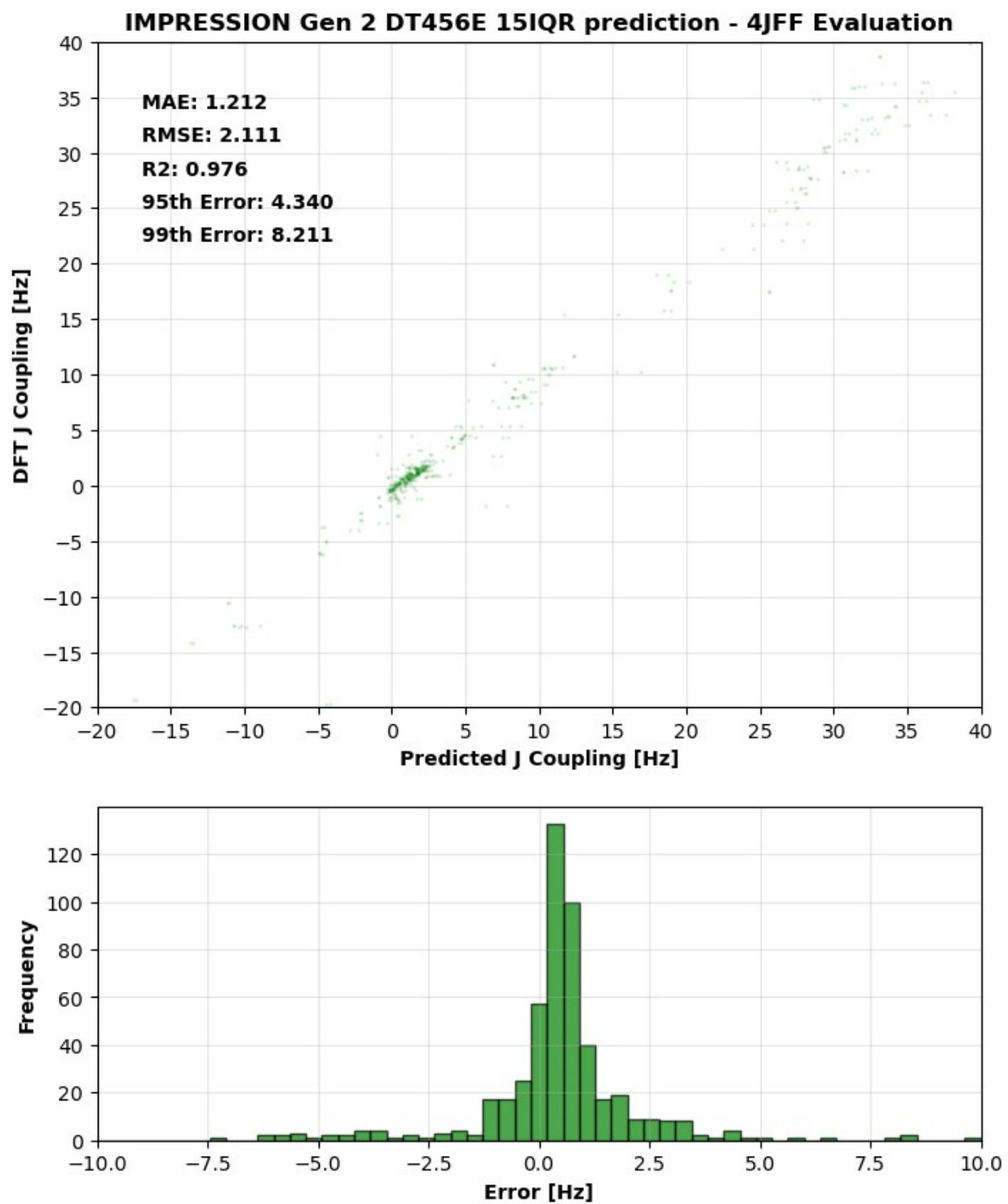
DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 3JFF DFT8K\_bg**



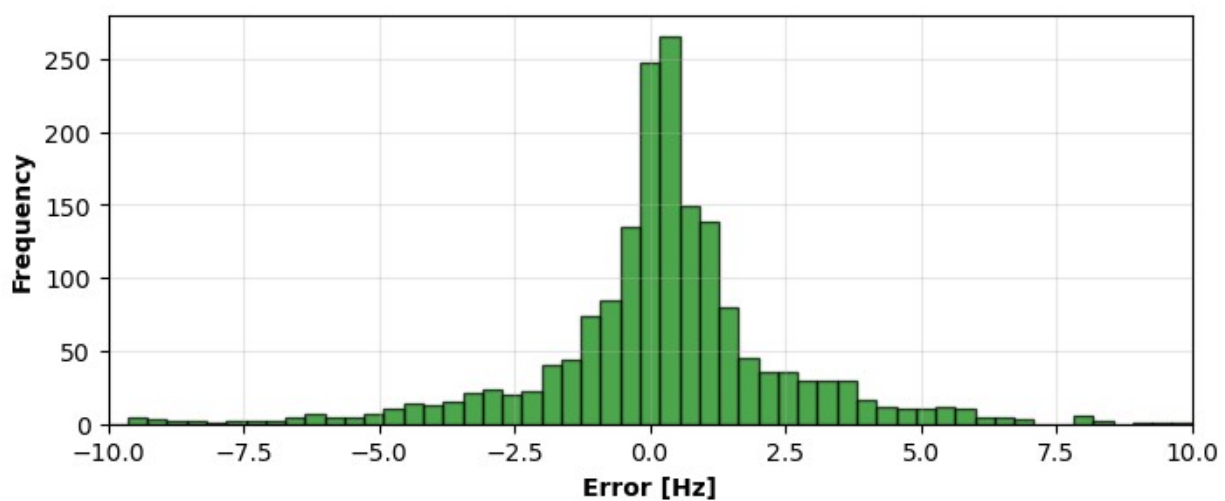
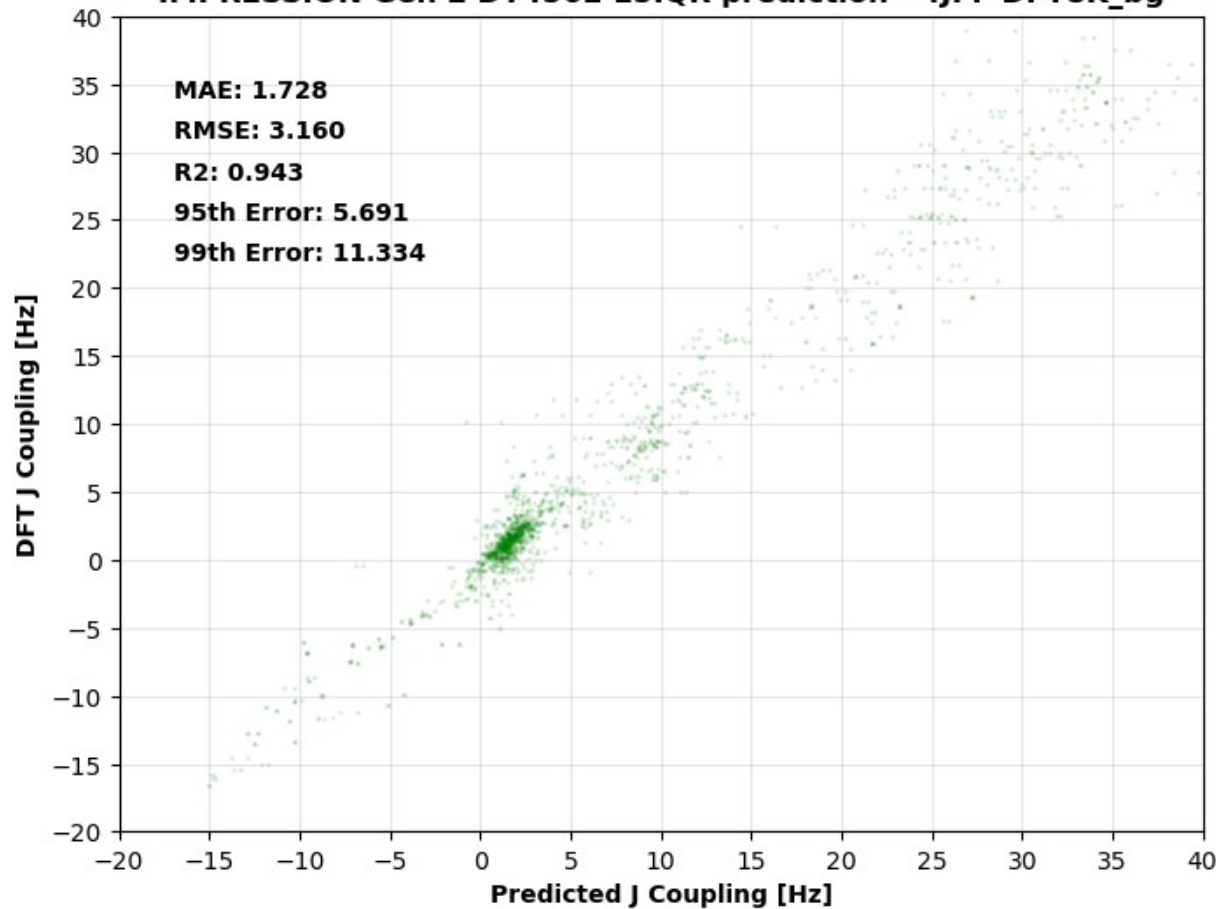
## S2.2.36 $^4J_{FF}$

Holdout



DFT8K\_bg

**IMPRESSION Gen 2 DT456E 15IQR prediction - 4JFF DFT8K\_bg**



## S3 Comparison of IMPRESSION Generation 2 errors between various DFT methods on CHESHIRE Test Set

We compared the mean absolute error (deviation) of IMPRESSION generation 2 predicted values against DFT calculated shifts to see the deviations between the methodologies. The table shows a comparative close alignment with alternate methodologies at a similar level of theory.  $\omega$ B97XD/6-311G(d,p) was our selected methods as it offered a reasonable balance of n>1JXY accuracy against the computational resources required (underlined in Table VI.7)

|                                    | Optimisation Method         | NMR Calculation Method                      | <sup>13</sup> C MAE (ppm) | <sup>1</sup> H MAE (ppm) |
|------------------------------------|-----------------------------|---------------------------------------------|---------------------------|--------------------------|
| Electronic<br>Structure<br>methods | <u>mPW1PW91/6-311G(d,p)</u> | <u><math>\omega</math>B97XD/6-311G(d,p)</u> | 1.76                      | 0.09                     |
|                                    | M062X/6-311G(d,p)           | mPW1PW91/6-311G(d,p)                        | 2.52                      | 0.30                     |
|                                    | B3LYP/6-311G(d,p)           | mPW1PW91/6-311G(d,p)                        | 2.64                      | 0.30                     |
|                                    | B3LYP /6-311G(d,p)          | $\omega$ B97XD/6-311G(d,p)                  | 2.19                      | 0.10                     |
|                                    | M062X /6-311G(d,p)          | $\omega$ B97XD/6-311G(d,p)                  | 1.78                      | 0.10                     |

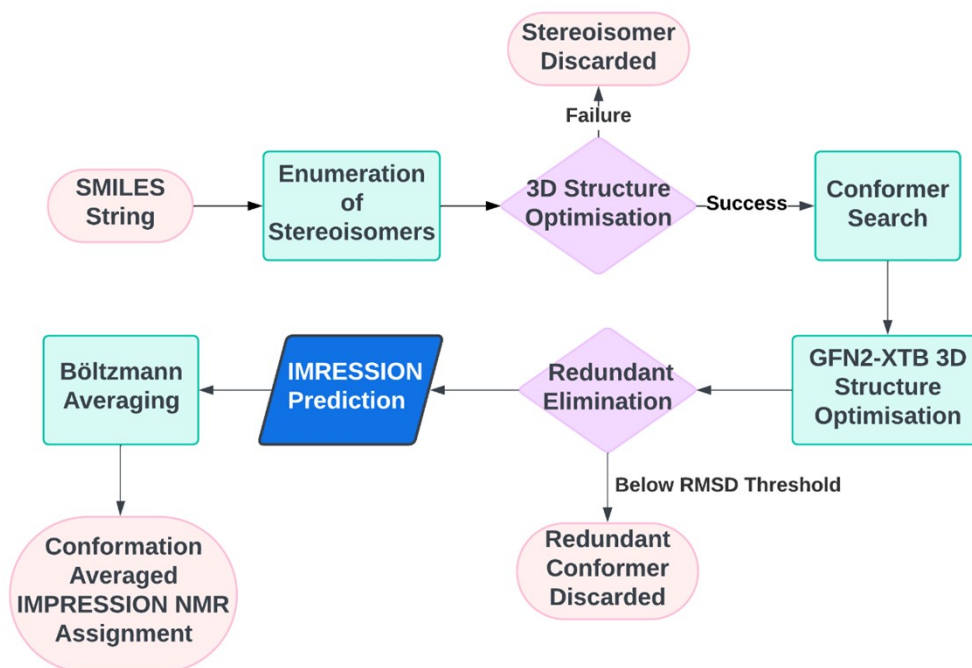
## S4 Experimental comparison

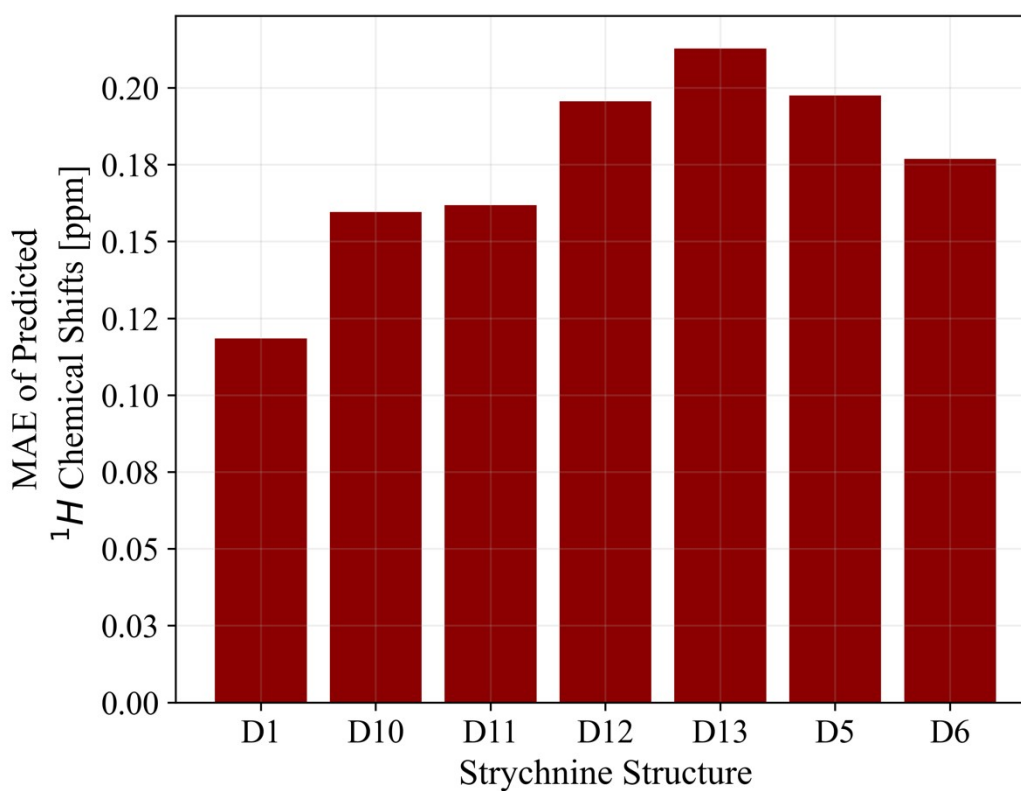
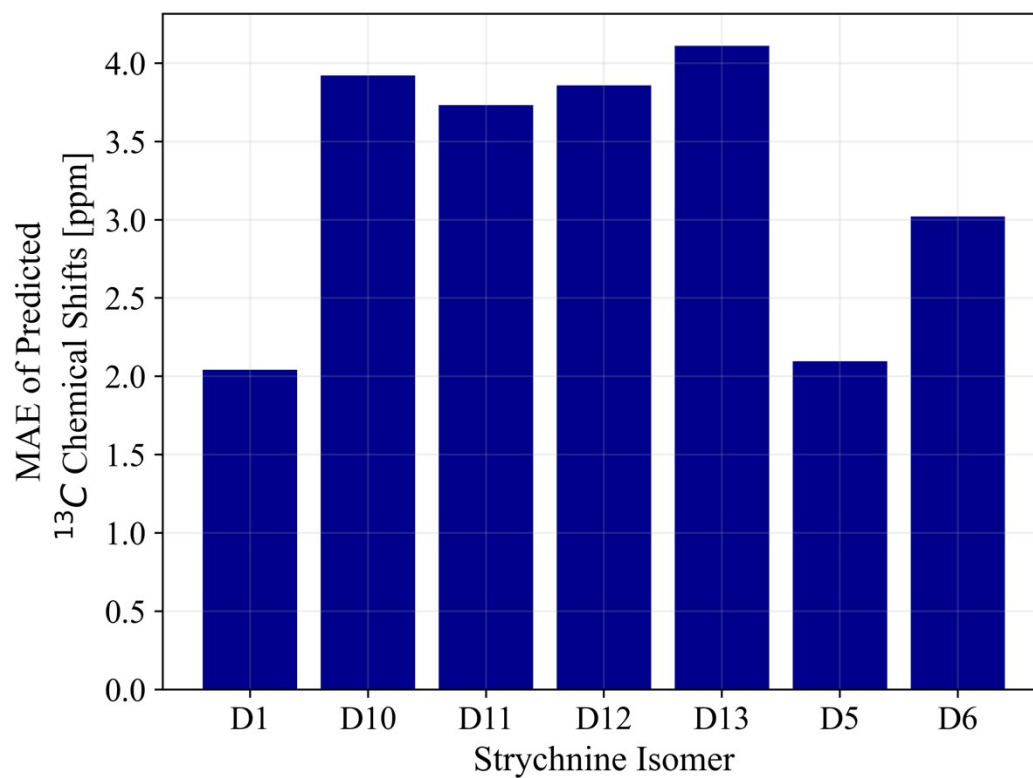
### S4.1 Strychnine

Strychnine was used to evaluate the ability of IMPRESSION to predict stereochemistry, it is a rigid molecule and so does not have as many low energy conformers as many other organic molecules. Strychnine has six stereo centres and so 64 stereoisomers which were generated in RDKit. Of those 64, enantiomers were removed and RDKit was then able to create a 3D structure for seven unique diastereomers. The remaining stereoisomers were deemed to be too strained and not possess an energetically accessible 3D conformation.

For each of the seven diastereomers, a molecular mechanics-based conformer search was run with the MMFF94 force field in RDKit. 50 conformers were generated for each structure. This was considered enough to capture the conformational space of strychnine. The conformers were then optimised by GFN2-XTB and a redundant elimination was performed to eliminate equivalent conformers. The root mean squared deviation difference threshold was 0.35Å and the energy difference threshold was 0.1 kcal/mol.

The conformers were processed in RDKit and run through IMPRESSION, then the predicted NMR parameters were Boltzmann averaged based on the energy calculation by GFN2-XTB to give conformationally averaged NMR predictions for each of the seven stable diastereomers of strychnine. These were then compared against the experimental data for  $^1\text{H}$  and  $^{13}\text{C}$  chemical shift and  $^1J_{\text{CH}}$  coupling constant.



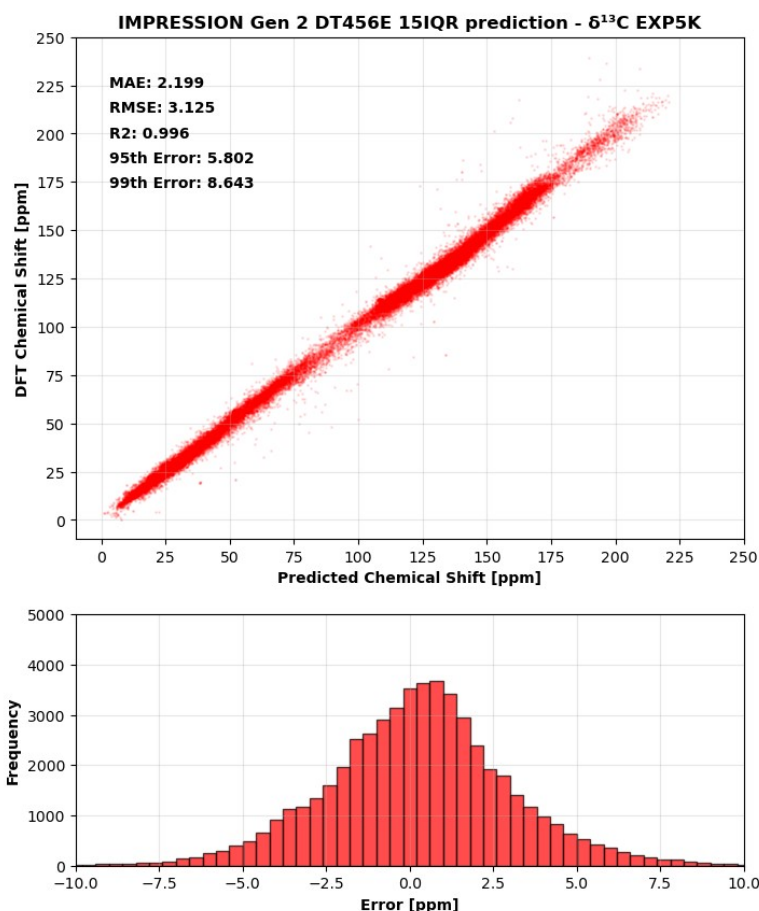


The diastereomer to consistently give the best fit to the experimental data is the right answer. D1 is the unique naturally occurring diastereomer of strychnine.

## S4.2 Exp5K

Figure 2 in the main text demonstrates the performance of computational workflows using IMPRESSION-G2 and DFT, compared against experimental dataset Exp5k from Guan et. al.<sup>13</sup> We note that experimental NMR data are a measured property derived from an ensemble of 3D conformers with populations controlled by relative free energies - and free energy is notoriously difficult to predict accurately. To avoid obscuring the comparison of NMR prediction accuracy with comparisons that also depended on energy prediction accuracy, we use the same approach as the CASCADE report and assess only a single conformer for each molecule calculated. To do this we initiated both IMPRESSION-G2 and DFT workflows from the same initial low energy conformer geometries thus removing energy prediction as an obscuring factor. Thus the workflows using only a single conformer (no Boltzmann averaging) were:

- (i) Generate a single conformer for each molecule (both workflows used the same initial conformer)
- (ii) Geometry optimize that conformer (GFN-xTB for the IMPRESSION-G2 workflow; mPW1PW91/6-311g(d,p) for the DFT workflow)
- (iii) Predicting NMR parameters for that conformer (IMPRESSION-G2 for IMPRESSION-G2 workflow;  $\omega$ B97xd/6-311g(d,p) for DFT workflow)"



## S4.3 CHESHIRE Test Set IMPRESSION/DFT to Experiment Comparison

We compared a selection of DFT methods, and IMPRESSION,

| Optimisation Method                |                      | NMR Calculation Method     | CHESHIRE TEST 13C<br>MAE* (ppm) | CHESHIRE TEST<br>1H MAE* (ppm) |
|------------------------------------|----------------------|----------------------------|---------------------------------|--------------------------------|
| Neural Network                     | XTB                  | IMPRESSION-G2              | 3.19                            | 0.22                           |
| Electronic<br>Structure<br>methods | mPW1PW91/6-311G(d,p) | $\omega$ B97XD/6-311G(d,p) | 2.31                            | 0.16                           |
|                                    | M062X/6-311G(d,p)    | mPW1PW91/6-311G(d,p)       | 2.51                            | 0.15                           |
|                                    | B3LYP/6-311G(d,p)    | mPW1PW91/6-311G(d,p)       | 2.73                            | 0.14                           |
|                                    | B3LYP/6-311G(d,p)    | $\omega$ B97XD/6-311G(d,p) | 2.58                            | 0.15                           |
|                                    | M062X /6-311G(d,p)   | $\omega$ B97XD/6-311G(d,p) | 2.37                            | 0.16                           |

\*2-cyanopropane, t-butylacetylene removed from CHESHIRE Test set as DFT calculations failed during testing.

## S5. Sampled structures

### S5.1 CSD structures

|          |          |          |          |          |
|----------|----------|----------|----------|----------|
| VESHUX   | OLOJAB   | PARHAR   | BEDJOM   | YUNYIR   |
| CASTEV   | NESZOB   | YAPZEU   | BULKID   | NUPQEU   |
| PAJVOO   | CIBFEA   | XIWREA02 | INACET03 | PEGLUL   |
| UYUDUO   | COTMEE   | TARGEB   | FOCBEF   | BIBXIT02 |
| OCEHIP01 | MIQNEF   | JABKUV   | VOFSEP   | XAXHOW   |
| FEKDUU   | DAWYEI   | BULHIZ   | CTOGBS20 | JECNUD   |
| FULZIV   | ZIFKEG   | FIKCAE   | NEPXOX   | DICRUD   |
| RUWMAX   | SELKEB   | ZETHUD   | HOVFUT   | KIMSUU01 |
| KUVBEI   | VUFSEU   | DOTPOS   | MENNAV   | SAKJUM   |
| EFIKOT01 | SEHNAW01 | VAPCEW   | FOMZUD   | VIGXAK   |
| KUXJIY   | VOLKIS   | SUFGAB   | HOZGAG   | OHIWUX   |
| XEDNAX   | HAHVIY   | TUCNUC   | LOMHOK   | RUWJAU   |
| VUPHIZ   | EWODEA01 | XOGXEX   | JINHET   | OWOHAL01 |
| AGAVOU   | QIWMUG   | FUCVOO   | NOFYEM   | MECZID   |
| ATUJEF   | XEMDAX   | WACZUX   | LUPGAG   | GITNEE   |
| VUDKIP   | WAZMAL   | AYEROL   | CEPKIS   | MIHZUZ   |
| GOCCOS   | SIQQEP   | WUSQUY   | UHADOX   | AXEHAO01 |
| CIXGOF   | ANIZUT   | XEZYIK   | YUDLAM   | TALNAV01 |
| GEYTIN   | FICTOC   | MAXDUL   | SAPHAU   | TATNEI   |
| SAHZAF   | URESOB   | TOPSEW   | OJAQOH   | LEPPIF   |
| NAMZAC   | ESTILO03 | KATKIA   | SUZJAZ   | NIVMIQ   |
| CYTOSM13 | QUYJUQ   | QEPNUW   | SIYYUU   | BUYZUQ01 |
| FASZOP   | JUNJIN   | YUQCUJ   | QALZUA   | PAGLEO   |

|          |          |          |          |          |
|----------|----------|----------|----------|----------|
| KAGZIE   | OLOREM   | KONTIQ01 | BEMZAV   | GODSOH   |
| BASDOO   | XIJFEB   | TUSQUU   | ELENEQ   | CUSFEC   |
| POZWUW   | DAFLIH   | NACGOP   | RAFINO01 | DETPAU   |
| YARDUQ   | COWLUX   | FULJON   | EFUMUP   | XAZROH   |
| LIWFEC   | CIGJUX   | YIDPEG   | YOXGIB   | CEKPIR   |
| ZZZMBS02 | AMUVIP   | XEVCEH   | ONILAZ   | YOKYOO   |
| HIFGEJ   | YIFWAM   | NINWEO   | SAWHUV   | QAKMOG   |
| BAFDIV   | OMCHDO   | AFIHOO   | LUQSOG   | VIBZUB   |
| JUSQUL   | DAJXUI   | BAYZUW   | LOKDEW   | AWOTAH   |
| EDEKOQ   | VAJVOU   | QAKJUJ   | DODWOI   | TIQWOG   |
| TARGUO   | BOVJOL   | VEFPIF   | WOGQEO   | CMXMCH   |
| ATOGIB   | RUCFAX   | HURLAI   | KUVKES   | QIRLUA   |
| NUKXEX   | KIGQIA   | NIJKEK   | TPHETY01 | DAQJOV   |
| HDPDXZ   | WOBWUF01 | CUDSAX   | FICLEK   | NEWREN   |
| COFGUA   | PHTHAC02 | CIQHOA   | BANJOQ   | BOCHIL   |
| HOQSIQ   | KUWZOS   | JEXBOE   | KUKCUP   | SUCANH12 |
| BAVZEE   | XETMAL   | SANWEJ   | YUHTOK   | PENTYN   |
| TUJJEP   | AQUWOY   | QIQYIA   | FOGKIW   | AXADUZ   |
| VUTBUI   | PAYJEH   | WESVIZ   | REZJUC   | DOVGUR   |
| PEXLAH   | TECQEX   | QECHEO   | GUHXOY01 | NEDYEA   |
| AFIFAX01 | TICBUD   | URAWEQ   | KOKLIH   | UCOMOO   |
| SUVCUJ   | ITUVOI   | CIQYAD   | MOGYIR   | QANQUR   |
| WOZPUW   | RUJQOE   | JAPBIO   | PADTIX   | YEXZIM01 |
| VACLAM02 | TIHBAO   | CISXOT   | COFNUI   | HOWWOH   |
| MTYROS01 | SUCROS47 | RAMZEL   | FUTWAU   | LILDEP   |
| GIMGIU   | HOCFUL   | KIZVEV   | UCUZOJ   | EGUQAY   |
| GATVED   | JOZYUU   | EGOTAW   | SEQREN   | TIXPOF   |
| MATVAE   | SIWDEH   | HALVAT   | TOVSUS02 | DIBENZ13 |
| POSJAI   | MOFCOA   | TIQNIQ   | NEXMOT   | TOPROG   |
| PORROE   | HEQWOQ   | KEMHAL   | CANPEM   | BEJTEP   |
| YUNTOR   | BICVIS01 | UFAGOY   | EGAXAL   | AVALAM   |
| AHMVAL   | HIGCIK   | ZAJVAK   | LEGXUS   | XUVSUE   |
| XAYDIK   | FAHPAH   | TIMHED   | PEXFUT   | NUHFEB   |
| REBXON   | FOFQOG   | EZUJIU   | VUZQOX   | AXADAF   |
| BASHUA   | METAMI02 | COYREO   | MOBXAC   | BZCPRO   |
| MEQFAS   | EZUTIC   | HEVDIW   | HIFQET   | XOBGAY   |
| GEHXEZ   | YOGSIY   | XENLAE   | MUVCAI   | REGFER   |
| CEBQIK   | DOPSAC   | NAYZOD   | LAFHEH   | WECXUZ   |
| YEKVEQ   | DOYVUK   | DIGGOP   | WUYMUZ   | ICEMIO01 |
| IHOQUT   | LEHJAM   | VIHBIZ   | BUBPAQ   | PEPGEW   |
| SEDMOD   | QIKJIF   | LUVPEX   | WEWTUP   | DEYTIL01 |
| LILJOG   | FEFYEX   | HEXVAI   | SADXOL   | QAPVOT   |
| RALQUR   | NOQBUQ   | DUNTOV   | CUKSEG   | SUXCAQ   |
| NAPTYR11 | IVAKAS   | FRANAC04 | CEGREL   | CITQAY   |

|          |          |          |          |          |
|----------|----------|----------|----------|----------|
| EHAJUS   | FNPEYO   | VUNFUF   | GEFLEK   | ITIKEB   |
| XEHTUZ   | NAFHOR   | BIFFAZ   | NEMZAG   | DEBDIX04 |
| RIFBUE   | BUDHOZ   | HAWTEF   | YEJPAG   | VIDFEV   |
| EKAHOO01 | JOCDAJ   | MATPEC   | YUDPAQ   | ITAFEP   |
| DLHTDA10 | ZUPGUM   | MAMKAO   | GAMLOV   | MIPYAL   |
| FACWUC   | ECIPIR   | CEKYAS   | QAJBUZ   | FOTYAP   |
| RIWNEQ   | MULBIE   | BOAYPI   | DLALNI14 | LUQYIG   |
| EMAQEQ   | ZOLBUX   | NIVJAE   | SAYWOG   | DETLAQ   |
| HXOCTM   | SAZLAH   | WIPHAG   | ILIMEV02 | FAFXUF   |
| TENMIK   | LOMNUY   | KOWCAC   | GUKXIT   | KAYHIE   |
| XOGWAR   | BZPHAN01 | ERISII   | DOQDET   | SUCTAN   |
| IDILUD01 | RUJSAS   | CIRGOB   | DUNSAH   | NISMAD   |
| UQIMUE   | ICOYEE   | JOYGEJ   | IQUFUX01 | NETIND01 |
| YUFYED   | VUTNAB   | CUZPAP   | COCPAN   | UTIH0V   |
| ORIDAW   | FEHLEL   | EYIKUS   | FABVUC   | CEFBOH   |
| QUVPOO   | TUWCEU   | YIGSUE   | ZZZLUK05 | ETIROQ   |
| PINVOX   | QUWJOJ   | MIXWEX   | MEYCIC   | NAMZEG   |
| TANBEP   | UXICAH   | MENSEE   | ZUQVOY   | FAMFII   |
| TABNIV   | ATEZOO   | HIFPIX   | PAXCEX   | KAVCOC   |
| KINGUJ   | GENFUA   | MEDLEN   | DLTYRS   | XEWNES   |
| YUCQUJ   | COMXOR   | PHTHAC06 | CUGLIA   | BOMBEB   |
| UYIREB   | YAGJEX   | OQUHEP   | TELKAZ   | GILKIW01 |
| TAPCIW   | EYOGEG   | TUNTUT   | MINGAR   | FAVYIN   |
| BEZREF   | BOPKAS   | DEV CIR  | ZIYSIL   | UKUTUP   |
| CEBKEZ   | TEPHME02 | CTPROL10 | NIHNEY   | QAZMIP   |
| RUGCED   | LGLUAC13 | WOBLAA   | ENIJIV   | LAVCET   |
| KIXROA   | CUVBIF   | CAGMIJ   | UWACEB   | ECMPCA   |
| WIBXUA   | QAH SOI  | PINYIW   | YIHHON16 | NATNAA   |
| GASNEU03 | OGOXEP   | IVIDAS   | YENLAF   | XINJIN   |
| YAQWAR   | MUHZUM   | HNOBCH   | NIFBEJ   | SAGQUO   |
| XIVVAA   | UTAGAZ   | BOVCEW   | SUSYAI01 | OTAKEB01 |
| VECSAZ   | XISHOY   | EVOGOM   | DEGREM   | RUWQIK   |
| FESNOG   | ADAZUB   | RURRAY   | WIVYUV   | RAYXEU   |
| EVAWEE   | SEJWOT   | YUHTEA03 | DUFVEG   | UZUHED   |
| LOVCAC   | FECQAF   | DOFGEK   | MVAHIV   | MEWROX   |
| ZEWPUM   | UPADOG   | VUFWAV   | SECTIF   | MUNWUP   |
| LACVAM   | DEBGIB   | LOSMOW   | TULDAH   | CAHBUL   |
| SADJEM   | NAXRUC   | YAPBUO   | KOPBAS   | JUPJAH   |
| QUDREM   | AHUHUH   | XAZQOF   | IVIHAY   | MOYKUG   |
| DMTCUN10 | TEVLIQ   | WABTAU   | TUNCOW   | NIFRAX   |
| ZUPHAT   | VOKXOJ   | TACRIB02 | SUPKET   | WIBWIN   |
| PUDDUP   | CEMBED   | AHUYUX   | PIPINE01 | REGYEJ   |
| MELVAA   | GEFQIS   | FOQNUV   | GICCEA   | WADGEO01 |
| USUZUF   | REYCII   | UPACUK   | MEYWOC   | XUHPIB   |

|          |          |          |          |        |
|----------|----------|----------|----------|--------|
| YOPLIY10 | TOHVIW   | YONBOT   | COBROB   | BEWLOG |
| TALHAR   | BUGKIX01 | HXMTAM10 | BONDIT   | AMAMOR |
| GUYBOR01 | GUFXOV   | YUQMED   | BIPTEZ   | CAVQEV |
| IHANAG   | SAWJUX   | MAQWIM16 | AFEBAO   | ACIYAP |
| ECASAC   | CONNUP   | ELOKIB   | ATELOB   | COZKUZ |
| SUCACB12 | IBUYIQ   | XIMCOL   | TEDJOE   | ACUPEV |
| ESUQOZ   | ROSLAO   | NUKJIO   | BAKVUE   | BEBCUG |
| EREVUS   | HAKWUN   | CEHZIY   | APOHOE   | ASUHUS |
| DIBNEH   | JOTBAV   | POBSAB   | COFHEM   | DBPOLO |
| CEBKEZ06 | XOMJIS   | PENBUH   | BUCZUU   | CEJJOR |
| MESYIS   | LESCET   | RAYXOH   | DABPED   | WEFXAJ |
| SOXHAQ   | FOGBIN   | RIXXOM   | WEGPAC   | AHIGAA |
| DIKFEJ   | WUWMEG   | DISJEW   | CBZMAL10 | BESSOJ |
| NADVIX   | WADQID   | TEGVUW   | DAHSUD   | BOFKOX |
| DUCWAA   | BUGMOG   | WIFZOC   | AGAFAR   | AGATOT |
| CIKBUU   | SUXROS   | FOLQUT   | DIHLUC   | AQINIX |
| XEYRIE   | AFIGIG   | ZODXEV   | ATIRAX   | ACEDES |
| NIFJOB   | IGENOZ   | EVAWIJ   | BEWKUJ12 | HEFFIK |
| ARIWAB   | PEZFEG01 | IQIDIV   | WEHKOM   | BAYQUP |
| AXMQOL   | XAVZOJ   | OBOWOU   | DATWEB   | BIBJAY |
| SOPLEO   | GUMMOZ01 | MUKBUR   | AGARUX   | ALEGEF |
| PAJDOU   | HELYOM01 | VEXCUW   | CAGLAA   | BATGOU |
| BAPQOA   | BATVEY   | BEVXAD   | CEGJOP   | DERSID |
| GELDEI01 | MEGNES   | ANIBEG   | BAXWOP   | BASLUE |
| PABBIF   | SIVJOY   | CIPWOP   | BEXYEJ   | DEJXOI |
| CATKAL   | RELCUH   | BEFROU   | CAPDEE   | BONCIS |
| HIYHAY   | TUCJEI   | BAZZIN   | DBPHEN02 | BIBJEC |
| QEYRER   | MIDXIH   | ABOBIF   | CUPMOR   | BPSIND |
| FERTON   | ZOFCUU   | COSROT   | BOLDOV   | ABOGAC |
| DUDKUJ   | BEFJAY   | BECLAW   | BZDCPB14 | TEHCER |
| WIZZAI   | PAFGUA   | ABEMIG   | BEGYOB   | ALETUG |
| CBUDCX02 | XUPYIR   | CEWLIA   | BEWMEW   | AZPACN |
| IQIZAK   | PIGTAC   | CEKFOP01 | QEFLAR   | BAGVUB |
| WAGBEO   | SUHYIE   | CEBTEI10 | BEWLIY10 | BAHQUX |
| JEGTUN   | QIMKIG03 | BILBOP   | AFUYOP   | CUGSAY |
| KOXBEE   | CIFSIV   | CILLUG   | CACRIK   | BALJEG |
| COLYIN   | XEXQOH01 | AHEPEI01 | AMODOW   | COWKIK |
| OPOZAW   | NAPHTA23 | ANOCOW01 | BHPETS10 | BUBVEZ |
| ESUROZ   | FEVHEV   | BAGKEB   | BALNOU   | BAPXOI |
| MEYTUH   | HAFDIC   | BOPQIG   | APOWIM   | AWOJIH |
| JUMCEB   | ABIVIQ   | BOXQIQ   | CIZGEY   | BEVQIE |
| IXOYEA   | WALNEC   | BPAFAC   | BEDDIZ   | ANURAE |
| LIHMOG   | FACQUV   | AXOLIJ   | BEPNIU   | BOGBEE |
| FEQFIT   | NIYWID   | BABNEX01 | CUTJIM   | DEBHOH |

|          |          |          |          |          |
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| ARUWAL   | BANTES   | DAXKAP   | BASMOZ   | BZOYAC06 |
| ACULUH   | AZIHUO   | ZIFROV01 | ABULIT   | BATROF   |
| BAGLIH   | BEBWIP   | COFZOO   | CUPWUG   | BEGJEE   |
| BBCPEO01 | BEGBAQ   | CEBLAY   | CUKDER03 | AFUZUW   |
| HAZWUD   | MEJREB   | AHATAE   | QAZTAP   | DATSEY   |
| BODCED   | BODTOE   | DEFWIX   | BIMCEG   | CEJLAF   |
| DBTACD01 | CUVQEQ   | DIDMUZ   | CIDJUV   | BEPYIE   |
| BUGKEU   | AVOSAH   | BARNUE   | BIDRAH10 | ACUXAZ   |
| CAKSAJ01 | CIKTAS   | BASVUM   | CUHQEC   | CAXREB   |
| CUFTEC01 | BOWBEW   | COKCOU   | CUVWIB   | MEFPEV   |
| ACORES   | AKOCEJ   | AWETED   | CANTEQ01 | BAXYEH   |
| CACGET   | CARJIQ   | DICWIW   | GEDLEJ   | AFAWIO   |
| BZYACO04 | BEVREZ   | DEMDEF   | BALTUD   | DARXUS   |
| AYASUP   | TAYGEI   | CUMKIF   | BUGDAI   | ATYREE   |
| DASBIL   | BUFFAL   | VEHSOT   | DAWSID   | BZQTCQ10 |
| DARVEX02 | AHUCUB   | DBOXAN10 | AMAXAP   | WEDKEY   |
| CADWOV   | DEGLAD   | CILBOP   | BESSID   | AHEPIO   |
| BZAZPO01 | CURDUP   | BODMOY   | COQDOB01 | COSXEO   |
| YEHYUI   | COUMAR11 | COZFIG   | BZOCND   | CEFVAK   |
| CURQOV   | CAZVIJ   | VEJLAA   | COBMUB   | ACALIA   |
| BUVXAT   | BUBPAP   | BIJRIW   | AYERIH   | CIRHER   |
| AVUGON   | BENANT03 | BEKDEB01 | AMATUD01 | BEGSEN   |
| NAZPIQ   | BOZYEW   | BAGVIQ   | ABIPOQ   | CAXMUJ   |
| CEKFIJ   | ADIPOU   | DIKSAR   | BILCOO12 | AXAMER   |
| ADIBOG   | BECPIL   | AWIXUZ02 | DAPHSD   | ABUPOC   |
| CUBHEO   | DADFEW   | ADUNET   | AGIYOF   | BEDRAD01 |
| CUDXUU   | CAPZIF   | BASLIS   | ABADEO   | BALQEM   |
| CLBZAC03 | CUXBAA   | CAMFOO   | CEJWAP   | BIDYOE   |
| DATRAT   | DAZIMP10 | DEJJOR   | DCACNP   | AKUNAX   |
| ARIGAL   | CIBRAI   | CIHJAE   | BABYIO   | CADZOW   |
| NAZPEM   | CIYWIR   | COBFIK   | CEBKEZ02 | CEFQIP   |
| CUTLEK   | AXOLOP   | ACOSIW   | CIMJUF   | CAYREC   |
| ATİYAF   | DEZBEQ   | NEBZAY   | CIVRUU02 | BUDRUO   |
| AMPHFR   | BIFLAF   | CEFCOU   | BUDJER   | CACYEN   |
| AZUWEY   | CEMGEI   | CILKAL   | AKIDIJ   | ADISEM   |
| COJYAD   | DANSOD   | CIQDUD   | BPTTAZ   | ADOHIK   |
| CEDYEQ   | CILZUS01 | ABELAV   | AFUTAX   | ARERUL   |
| BEFTAH   | CEGCAS10 | ABIJAY   | BUHJAQ   | AZUGIM01 |
| BRBZPH   | BAKVUF   | AMUVEL   | BEPNUG   | AFEPII   |
| CIQFEP   | DATDEI   | CITSOO   | CAFNUU01 | BOGXUQ   |
| BULJUN   | AXEPOJ   | COPTEI   | BOKTUS   | CUFHES   |
| YEBMOK   | ADUPOF   | DARVOH   | BAVTOK   | QEDMOE   |
| AXUDED04 | COYKIM   | BUCLUI   | AROHOG   | ATUVOC   |
| CIYWIQ   | BAXJUF02 | BAQBUS   | CUWYUP   | CIBMEH   |

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| CIKTIA   | BABBAH   | AXODAS   | COZFUT   | DATCAF   |
| BIMPTZ10 | AJOMUI   | COMFAN   | CUJHAQ   | ACUNEU   |
| BALKAC   | CAYKIZ   | DALZIZ   | VEDBIS   | BEPAC01  |
| BADBIU   | CEHDAW   | CILFAG   | BADTIM01 | AJIDAA   |
| VEDGOD   | BORLIF   | CAQSOD   | DBRNAQ01 | CAQVOH   |
| ATAKUB   | CIPREA   | ACMEBZ   | APEQAO   | BONKAQ   |
| AHEFAV   | CIMYOO   | BZOYEU01 | BOBDAZ   | BNPHTA01 |
| ASIJOB   | CIZNOP   | BURGIG   | AXOQOU   | CAKXUI   |
| ABOFUV   | DATTID   | CAGFEX   | AMAWUI   | BAPRUG   |
| BUTYIA   | AQASOB   | AJIXIC   | ATELAO   | COBJUA   |
| AYATAW   | BOKCEJ   | DIMROI   | ASOHEV   | DEJGII   |
| BAXNIA   | CITMAV   | BALSAK   | CELTES10 | ABUBEE   |
| BAWVUR   | ANTMEU03 | APAVIX   | BIXHIA   | ABEBIS   |
| BESZOQ   | ADETUA   | APUVOX   | ADAVOS   | DAVJER   |
| WEDHUL   | QEDSIE   | CARYEB   | BAVHIR   | BAGCER   |
| BUVZAV   | BZTZAC   | BOCFAA10 | DAYHUJ   | CAGGIB   |
| CEVTAA   | AFUBAG   | CINNUK   | BZPHOS10 | BEYDUG   |
| CAYJUI   | HEJPEU   | AJOPIA   | CEGWOB   | DIJYIF   |
| BAPTIX   | CEHROX   | AZORUD   | CIVSIL   | CURPUB   |
| DANTRO01 | CAPDEF   | DHNAPH05 | CEZDOA   | HEJLAM   |
| BONWEI   | BZAMID13 | DATTEZ   | COPPOO   | BUSYIZ   |
| CIVLOK   | COJCIP   | CAZMOH   | TECHUH   | CIKCIJ   |
| ADAJUK   | CAQVAS   | ABUVIE   | BUWBUR   | BUWBOL   |
| ATUTEQ   | CINZOP   | GEHVOH   | BAWWUS   | DAXGOZ01 |
| AXIFET   | AQEREV   | CUMKEB   | ANUKIE   | CAKSUF   |
| DADPAZ01 | ACRDIN09 | DAJXAO   | BONQAX   | DALGAY   |
| ALUQON   | DEBRAG   | DAH HAY  | BEPYEB   | CEGMIM   |
| ACAYIN01 | DAMHIL   | DERKEQ   | ARARUH   | BOZSOZ   |
| CEDJAX   | CIVWUZ10 | AVOBOD   | CARGOS   | CAJWUG   |
| BACQOM   | CIBMIL   | DIKLOZ   | ACUGUA01 | BIGXUM   |
| CUPVOA   | AZUJEL   | CATYED   | QEGMAT   | AZISOR   |
| AKIPOB   | ALAJUT   | BETQAU   | CERJIT   | CEGSUE   |
| DADGOF   | BUYPOA01 | DASNUG   | CETRUQ01 | DIMNAP04 |
| COPDIV   | BIBZUJ02 | BOQCEP   | ATALOX   | ACORIV   |
| AQIKES   | DAVJUI   | ANINOC   | BEWDOW10 | BANHEG   |
| BESVAW   | DANZIE   | DIDRAK   | CEJRIT   | BUVDIG   |
| AFIRIS   | CUGDUE   | CUTLIO   | BORZUE   | WEFWUC   |
| BEBRIJ   | BPACLA   | CAWZEG   | DEXWOU   | AFURIE   |
| DAYMAU   | BUFZOT   | QEBVIF   | COLROL   | AFUZOQ   |
| ATEQAS   | AZEKIB   | ATISED   | DALLAF   | BIPZUV   |
| CEGXUJ   | AYEGAM   | BICFOI   | BUPCIZ   | CIYTEJ   |
| ACUTOJ   | CAWWAA   | AKOHUF   | BODYUQ   | CLDZPB   |
| CURRIS   | DEFZII   | AMUXUD   | ACENEB   | BOCXEX   |
| ABIBES   | APUCEU   | BIMJEM   | MAZQOW   | CURPIP   |

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| BOVTUD   | BOSBOB   | APAKOS   | CEDBIX   | DIBENZ06 |
| CONPAW   | AHUSAY   | CEWWEH   | ACORER   | GEHCUU   |
| BAHBOB   | BECRUY   | DESWAZ   | AZAJ01   | CUBVOM   |
| BEQXUQ   | ACSALA23 | CUTTAM   | AXURIW   | BEQWIE   |
| ADOHOS   | CIDFIF   | AKUXOU   | DEDLOQ   | CIRKEV   |
| AXUGUX   | CEJSOZ   | BUHLUN   | CINTIE   | AXIYEM   |
| DAVCAH   | CHMPOA01 | CEZGIZ   | MEBZAX   | BEPJOX   |
| AXOXAN   | ABIHOI   | YEBMUQ   | ANUCOD   | DAZBAJ02 |
| DAVBUA   | AYUFAC01 | BAWQAS   | DAVFEO   | BCPSBZ   |
| BERDUY   | CUBTEA   | BABCUF   | AFIFOK   | BEHMUY   |
| DEMTAQ   | NEHVOO   | HEHSOF   | BACTAB   | DABZEN   |
| ALEJOR   | BEDREJ   | CEGYOC01 | BEDROR01 | DEZJEY   |
| DACBAM   | ASULEF   | VEBKOF   | ABILOM   | YEHFID   |
| ARANEO   | BANBEZ   | DABRON   | YEJJAB   | BOHMUH   |
| ADAVEH   | CADFUI   | CONSII   | AVAGIN   | CISPOK   |
| DAKJAB   | CEVQOL   | CIMDUZ   | AXADIO   | COPQIJ   |
| BORKID   | ALURAA   | BELPUF   | AJIWIB   | ACIVEP   |
| CIKFEH   | ARIGEP   | BIXGUL   | COKCEK   | COZROA   |
| APUTOU   | GEDQAK   | BIHMOW   | BUVSES   | DAHREJ   |
| AFUYEF   | BOWCOG   | NEBSIZ   | DEWYOT   | HEBKOR   |
| AKUZIP   | TEHPII   | BIZYOZ   | DIHMAJ   | CUBTIE   |
| CIRKAR   | CODMAL   | AFUKES   | AJUTIJ   | ACECAN   |
| CIJTIA   | BONPOL   | CORONE04 | YEGBAQ   | COTRAE   |
| CAZRIE   | ACIJIF   | ALEDIF   | APINIY   | CUYPOB   |
| LEFLOA   | BADRON   | COLHES   | BEJJIL   | BAFPED11 |
| AFIJUW   | AROBUF   | CUNSOT   | BICROU   | BIBCUL   |
| APOTOP   | CAQDUW   | BACREF   | DIDQOY   | BAPXEY   |
| BUFFAJ   | BAHPAC   | ARUDUM   | DIHVUL   | AGOLIT   |
| BERFEJ10 | BEMDUU   | KECZOK   | ACAXEI   | BIDYEU   |
| VEBVOQ   | BUTFIH   | DACLIF   | CUCPOH   | BOPWEJ   |
| BAFTOT   | ABEPUU   | LEHMAP   | BITROL   | BOQTIK   |
| BUPDUL   | CAXSEZ   | ABEJAV   | CADDUI   | DAFCES   |
| AJURED   | AFEBET   | AYUSUJ   | BUYPUH   | GAZDIX   |
| BECVIR   | ACSKAT01 | CAYJAJ   | GEFJUZ   | CIKTEW   |
| DECZOA   | AFASIK   | DASDAD   | AXEJUJ   | COJKUJ   |
| BESKAM   | BOZHII   | CUVPUG   | CADMOK   | ATEWEC   |
| BERGOU   | BEDZPN10 | ADISIQ   | BIXKEZ   | GEGKEL   |
| BTOLYL   | VAQKAC01 | BUWCOM   | AXARIA   | BATBAC   |
| CIKQAP   | LECGOS   | DIFYAT   | BUCTOJ   | CIVWAH   |
| BENZON10 | BAYDAI   | AMIFEH   | ALASAH   | MEHCUA   |
| DAYBOX   | CITKUN   | CUVXOI   | BUDVON   | BRPVAM   |
| BOZLIM   | BUJJEX   | TEHDIW   | AYOPOU   | COTDIA   |
| BEFTUB   | CIPSOK   | AYOZAR   | AYOJAZ   | BOYCUO   |
| PECKUG   | DARTEW   | COKKES   | CEPPOC   | CUXNAM   |

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| DIGLOW   | ADIJOO   | BZAMTZ   | CEBJOL   | CUHGIW   |
| CERYII   | BUVCAY   | DASTOG   | CITSAZ10 | BUKNEC   |
| AMUZUE   | DAKCEZ   | ATELAN   | AXAREX   | ATUKUV   |
| CAMCIE   | ABAGAN   | BAQRET   | DIHUU    | DAYLOF   |
| CAWMAQ   | CEFWUH   | ATEQOG   | CISPOL   | ASTLLD   |
| DAVQUO   | CALCOJ   | AFOFAE   | AFUZEG   | CEKCIE   |
| AKOWUU   | BOWSOV   | CNAPAN   | DIGMAJ   | ANUYIT   |
| BIDKEE   | ABULEQ   | DEYMUR   | AGEVIT   | MEDXOL   |
| BOXQIO   | ASUYES   | AJOFUB   | BAGKID10 | CAMZIC   |
| CIPNOE01 | ADAJAR   | AHATAF   | BEWGUH   | AFUXII   |
| DACSAB   | ZECSUY   | ALAZAP   | BIRKIWO3 | AGASEH   |
| KAXFAT   | AKUYIP   | BUFMOF   | CIWJUO   | CAGHAU   |
| CUNHUP   | COSDAR01 | AKAVIS   | CIPWOO   | COVGUR   |
| ALUJIC   | DATJOY   | DIDGIG   | DEBLII   | ACANAC01 |
| BAPROC   | BAPBID10 | DILSIC   | BACCOY   | COMGEQ   |
| BZPPOS   | CAYTIG   | CUNTAH   | ZEFQIN   | CACWAF   |
| DEYRUV   | BAPZEZ   | DABMIF   | DABBIT   | DEDCUN   |
| TEHFEU   | DETFUC   | CUFCIR   | DEVBIP   | VAYRIZ   |
| BOLDIR   | CAGFUN   | BIXSAD   | DAXPAT10 | AQOTAC   |
| CIMHUB   | AYUPOA   | DACKIE   | LEJTIG   | YEFSOU   |
| AYUMAJ   | CAMDEC   | CEMZIF   | BEJZEV   | JONXOZ01 |
| BADMOJ   | AHUPAW   | DABLOJ   | CERTAW   | ABAWIM   |
| CUDZOS   | CASDEG   | CORWOW   | BMPPZA10 | CUSHUU   |
| AVAMAN   | CIQFEO   | CUVWAT   | BATZIG   | BAYDOW   |
| AFALAW   | AYEXEJ   | CUVQIU   | AJOGAJ   | BOXZUL   |
| BIKQIW   | DILHOW   | CERKOA02 | BIZTIP   | CISDUD   |
| AQEDEH   | CEDWIT   | ALOFIS   | BALXAQ   | ARIFEN   |
| YEH DIB  | BAJTAJ   | CUHGOC   | BRTCBN   | BUDMUJ   |
| AXAHOY   | AXIDER   | DAGYES   | ATULIL   | DARBIK   |
| DEGMOU   | BUKYAI01 | BESXUU   | AMOSUS   | COBMEM   |
| BEWYUY02 | DAVGAI   | BOLBEL   | AMIFAD   | BATKIR   |
| CUXHIN   | ASINEW   | HECQIS   | AHOPIW   | BZANTC10 |
| BOTLHD   | DIHQUI   | CECQEI   | AZOPEL   | ALEYOH   |
| BUFJOB   | COTSAF02 | AMAZAR   | DAYYIM   | BEPGIO   |
| CAHDAT   | NEDCIL   | AQANUB   | CUPJOM   | CUPWAN   |
| ADYPNL01 | CUYDOR   | AKERUF   | ABEKUN02 | DAVL0E   |
| DALJUY   | AWUNIP   | ARIGEP01 | BIQCEJ   | BOQSIJ   |
| CONZEK01 | DARCIJ   | BZHTHP   | ADICOG   | AJOLAN   |
| DADPOQ   | DIHMOX   | CETRAV   | BAGWOW   | LEJWEF   |
| CUHJUL   | BOVBUL   | AZUPIV   | BOVTAJ   | KAHHUZ02 |
| ARIMEU   | CLMANT   | DECMED   | CINMAC   | AQONUQ   |
| CAXHIS   | BZOYAC04 | CAWMIY   | CAFZIV   | CAWHOZ   |
| CUSXOF   | ARASUI   | CIZMII   | AGUXAB   | COQCIW   |
| DEYNAP   | CORSILO1 | WEFXEN   | BUCXII   | BAZFUG   |

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| CEHQQ01  | BETSUO   | HEFHEI   | AJULUO   | BICLEG   |
| BERKEO   | AGIYOG   | CAMGII   | CIHFOP   | DAHKAB   |
| AROMAV   | BAVCOT   | BANHOO01 | CURJAB   | AREQAR   |
| MEHDEL   | BUDXUV   | BUVYUO   | WEFJAV   | ASOBER   |
| BEXLAT   | DEFQAJ   | LEJWOP   | ALUMUQ   | ARUJEE   |
| AVAZOM   | CAXMOE   | CEMGIM   | BUYFIM   | AYECAI   |
| DABCOA   | DAKXET   | CITBIR   | AXOJIH   | DIGVIA   |
| CIXWAJ   | BADBOA   | BEVHIV   | CEFROW   | CEZBOA   |
| CADFAQ   | BUTWAO   | CEHLUY   | CACRAC   | ADUWIF   |
| DEYSUV   | ABAKIZ   | ARADUT   | CIYPUV   | COPHAR   |
| AHETAJ   | AYUQAM   | ASEDUZ   | BESYEF   | AFOBOO   |
| YONSIE01 | AYUZUQ   | CUJWAH   | AWODIB   | AFOCAB   |
| AYATOK   | ASOQOO   | BERBAB   | BOKYUX   | AYIMUQ   |
| ACERAC   | VEBTUU   | AFIZAS01 | COVNOQ   | BACLCH   |
| CEJVES   | NAYMAE   | BAMBID   | BEZHUL   | CIWYOW   |
| ANINUI   | BEPXUQ   | ABUSAR   | DEZJUO   | CUCPUN   |
| NECJAJ   | BIYBIW   | ARAGAC   | CILNOC   | AFITAM   |
| DAPNEO   | BECSAG   | BARWID   | DIFZIB01 | CARSIA   |
| ALICAZ   | CIPZUW   | CUBRAT   | BIGSEP   | AMEXOF   |
| CEFBAR   | BPSOME10 | AHUFOY   | DAZTIK   | BAXXUU   |
| DADTAF   | DACXAJ   | BUBQOF   | ABOHUV   | BEZGIW   |
| CONXEK   | DIHDON   | BUCTAW   | BEBFAS   | ABODON   |
| AFAKOJ   | AMEMUB   | DIKLIT   | CULVOU   | CARWAV   |
| ADUMUI   | CEDGEY   | DEFCEZ   | COQCOB   | DEJYUM   |
| BUMHEW   | GEDQOY   | WEDPON   | CEPYED   | AQABOK   |
| BZIDMS   | DARXAW   | BETMUI   | DEYDOB   | ADITAJ   |
| CIQFIS   | BAXMAP   | BAVXEE   | LEDFIM   | BOYDAV   |
| CLPOPA   | AYUTII   | DHCBAN   | AHIGEF   | CETRUQ03 |
| BOTDOD   | BOGXOK   | VEJRIO   | CISNOJ   | AYUWEX   |
| ANEJUZ   | CPPHOS   | CIWNUS   | CUNHID   | BILYEB   |
| BOYDOJ   | COGRUN   | CEJDEC   | CIHGUW   | ABUVAX   |
| BUWVAS   | CEYKOG   | BRPHAN   | DEKKIQ   | BUWVAR   |
| CAMFII   | CAJSOY   | BIFBIC   | CUHGUJ   | BAKTUD   |
| BERFOT   | BEDHUP   | DETGUF   | BENZDC01 | AFEQEJ   |
| CEHFUS   | DABBAM   | CUZHOU01 | BURQUA   | BPHSUL02 |
| BADSEF   | MECWEZ   | BABKAQ10 | BOBHIL   | CITTAB   |
| AYIJEX   | AYUFIK   | CILPAQ   | CURJOQ   | ARUWEQ   |
| DENCOO   | TEGTAD   | CAXSUS   | ATUSAL   | BAPYOI   |
| CIPROK   | CIDPOV   | CAGXOX   | CEQKAL   | CIWJID02 |
| BZTZAC01 | COLQOL   | BADPUR   | COZJOR   | HECDEB   |
| CADMEA   | COLJUK   | CERKAM   | BAMZUM   | BEWLAR   |
| AKATEM   | COVNOS   | CUXBEE   | BOQPAA   | CAJLII   |
| CAKZIA   | CAWXEF   | AJOHOW03 | BAKMAE   | ACAZOV   |
| CIDHON   | BUDNIZ   | BUXBON   | BEBGOG   | CIJZIE   |

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| BANWOE   | ABESIK   | HEJMAN   | COUMAR12 | AZUZIE   |
| CAZYUY   | ACEFEV   | TEHNEC   | AVOTOU   | CUXHEK   |
| BONFAN   | ABEJOJ   | BMCBIB   | AXEJUK   | CUYZUT   |
| BUFCUB   | CUMZEQ   | ANEHUX   | CEYKEW   | AVOZAM   |
| AVEGOX   | DAVREZ   | ABOLUB   | CICPEK   | RAXFII   |
| CERBEH   | COCKEM   | CURKIJ01 | APUKUS   | AKOZOQ   |
| DELVEW   | CUGMIB   | DEBMEF   | CIBCOF   | DAXWIL   |
| BTCODD   | VEGBAN   | CABRAA   | BZTBZT   | CAKNEI   |
| AWOFEZ   | ASIWEF   | CAHGOJ   | AZACUA   | CACHAP   |
| AKUJEX   | BEBPON10 | DERFIQ   | BIKNUE   | ANTHOB   |
| AFEQIN   | DADTEJ   | BOLNOH   | COYRUD   | AZUHAE   |
| BEZWAE   | COMWUW   | CUGFEQ   | ASONEC   | BEBMOL   |
| BERJIT   | AYUPUH   | BOVBIY   | BIHVIY   | COPBAK10 |
| COBSAO   | BZTRIP   | BOGZOO   | CARLEO   | DAXPEZ01 |
| DACSIM   | CEBLEC   | AXAWAY   | CIQDEN   | CUNLEE   |
| DAJKUW   | HECNOV   | BIDQAH   | CLPHUR   | BIFPUD   |
| BPCXIM   | ANEMIR   | CIRLIZ   | AMIXOJ   | CIWYEO   |
| CUQBEW   | CAQTOF   | AFIPOW   | CIKQAA   | ABAHAP   |
| BESREX   | AHEVOY   | CADGAR   | DECBUK   | CUBLER   |
| DIFVAQ   | ARIXEG   | BOJLAP   | DELKUD   | CURQUD   |
| BEBMUR   | DEWLOH   | BEPDIJ   | BMDAZC   | CUTHAB   |
| ASUZAP   | AHUYIM   | TEGWOU   | CABBIR   | COSVEN   |
| CUVVUM   | CAYZIO   | BUFLIY   | CAYKUL   | ATUPAH   |
| DAJLIL   | DAXYUZ   | QAZSAO   | CUCSUP   | HEJKEP   |
| COMGUI   | CIHLEL   | ALUXUA   | BIGHUW   | YAZCUA   |
| AZERII   | CUBZEF   | COZXIA   | BASCON   | BIRYIM   |
| AKUSUV   | YEGLAA   | BUCHOY   | ARANUE   | ABIVAL   |
| BOCNOX   | AYEDIR   | BITBOX   | BARVIA   | BEYXOS   |
| ASUWIV   | CIRHUH   | CIMROH   | ANTMET05 | CERBEG   |
| BAWSAT01 | DAJJUV   | CACXUB   | AXIGOE   | BUBBAC   |
| BUHNOH   | CAWXEE   | ATIWUV   | CANZEY   | PHBENZ02 |
| LEFNUI   | BAVREY   | ANUBIV   | DICZUK   | AJOCOR   |
| CIBDOG   | DIKCUV   | QEFBOV   | CERZUV   | APOFES   |
| CEBKID10 | DEXBEN   | AJEQAH   | AMAFAV   | BUVXUN   |
| APERUJ   | CAXZIL   | DETJIW   | BINGOW   | DEGXOE   |
| AKOWOO   | BUZYUS   | AKOWUS   | BAQGOS   | AQUTAJ   |
| DAWDOX   | DIDCEZ   | CEDBUK   | BAFXEO   | ANISAZ05 |
| BETCEK   | AYEQOK   | BOHCIL   | AMAJEF   | CINSUP   |
| CLPCPN02 | AQAFOO   | BOLFIR   | ALAPIO   | BIZZER   |
| CODDAC   | AXIDAM   | JASDAL   | CUNPOR   | CINMAC04 |
| CAMGOP   | AGULOF   | DANTEN12 | CABJEW   | ASEGUC   |
| BEGVIU   | CIBPUY   | COGREV   | BUDWUU02 | CIQPUO   |
| BAQTET   | CAVZEE   | BOVVUE   | DELSUJ   | WAZSOI   |
| APAPEO   | CIPWII   | BAZHUI   | AKOVAZ   | ANTCEN20 |

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| ALOVUS01 | AYUTOE   | AYOTEO   | ABOFON   | DIDNEK   |
| BOLZEH   | AMUSOS   | CEVXEH   | BEJYOE   | AFOLOY   |
| BAFLAY   | MAYHUS   | AMETAN   | BOVWEQ   | CADBOY   |
| BILRAR   | HEHXEA   | DEGVUG   | AKOSIE   | BECPUX   |
| COJHEP   | CASCEF   | CAPQIV   | BINDEI   | BIHLOV   |
| ATEKOA   | BELVIY   | NEHDAI   | DAJJII   | DIGZAW   |
| CEKNOV   | CADGET   | BIMJIQ   | BOQZUE   | DAPTET   |
| CUWZUR   | DAMNUD   | ASOVIO   | CEBQAC   | BIDZOF   |
| AYEDAJ   | QEDVUT   | COSFOF   | ADIJII   | VEFYUD   |
| CAXKIY   | CAWHUE   | BEDWUC   | DICSAJ   | DAWJET   |
| BAVHIS   | AMAJAB   | ADOFAC   | CIBFUQ   | CORWAJ   |
| AGUMOG   | AKIZIE   | BOQGAP   | DEVXUX   | DEBKIH   |
| CAJDAV   | BISNOI   | CUGNID   | AHEDIB   | TEHHEW   |
| DIGFEE   | BINVIF   | BINAPH11 | AQILOC   | BUFHAM   |
| BIXKUP   | AFIHII   | CIHCUR02 | CAPHIM   | ADAVUX   |
| DESNOE   | BAFHAR   | ANAZTP10 | CEGGED   | VECBIR   |
| BIZFOG   | AZIQIJ   | AYOVUG01 | CAFLAY   | BITBIR   |
| CUNRIN   | DARVID   | AMACPH01 | APANBZ   | COZTUI   |
| AFUWOP   | DEZRAD01 | CODHUY01 | BANNEL   | ATAJUB   |
| BADMAW   | CBZYAN01 | AYOXIX   | AMODIQ   | ABOSEP   |
| BACVAF   | AMEZOH   | CATZUV   | CEMJOT02 | HEJJOY   |
| AJAKAZ   | DIFWAR   | BOLLIZ   | CIRMUN   | COGQOG   |
| AKAWOZ   | ABANEY01 | COMDUF   | CEQNAN   | CUCZOQ   |
| MEJLOF   | AVILOI02 | DASVEY   | BIXYOX   | BATXOK   |
| AXAGEL01 | AXEDUC   | BOBFIH   | ARIVOM   | DADHOG   |
| CAJRAH   | DEHCIF   | DICHOM   | AXARAS   | COKPUO   |
| BOMWIJ01 | AYUROC   | BOJNEV   | COZHIJ   | ANUWUC   |
| LEJRAW   | AFOCUU   | CEBKOL   | ARAYUO   | VAZKIT   |
| AJUMEZ   | BIPYRL03 | ADIJUJ   | ANUXIS   | CORMOM   |
| YAZQUO   | DEGFEB   | BOCZOI   | BOTCOD   | QEGZAG   |
| BZDCPB13 | AVAGAF   | BURQOU   | CDAGLN   | DEVREB   |
| CIPMET   | ADAPUS   | TEHGIZ   | BEJXEU   | ACIDIZ   |
| APOZEL   | CIPQUO   | ADISUC   | ATELES   | ABAJIY   |
| COMQUS   | BUBNER   | DIBDEY01 | BUHCUE   | BEVJET   |
| DAQJIP   | DECGIE   | AQELEP   | COMRUR   | CAMGUV   |
| CARXOL   | APAPAK   | ADULUG   | COCHOS   | CECYEQ   |
| COLROM   | BUNKEC   | AHOVEY   | LECQIW   | SAXCAY   |
| BUWWEW   | CXAEZT10 | AKIFUV   | LECQOC   | BROPSY   |
| DAGTUB   | CARZIF08 | BAVGEM   | BAJCOH   | ANUVUC   |
| BUWCIG   | DANJOU   | BAJXOZ   | DAHLEG   | CEKNUB   |
| BERMES   | COCGAD   | AZOTUF   | CEYGET   | BOCJAE   |
| BRHPQU   | CIWHUM   | BAZYOS   | ADURIA   | BILYIE   |
| CYMINO02 | APUZUG   | DEDPEK   | ANUSIM   | BIYXUC   |
| DADCOC   | APEMAK   | CIJGEJ   | ANIVEA   | HICFEE01 |

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| ARAJIM   | CASREU   | AVULOS   | CIHVUM   | CUHRUT    |
| ASOQAB   | AJOHOW02 | DBANTH11 | BICBOF   | AMOXUX    |
| COSVUD   | ARANAK   | BAWFIR   | CENYAV   | ACATUW    |
| DAJWUG   | AXANIY   | CIPWED   | COFDOS   | CARHOS    |
| CENSAQ   | BAWGAI   | GEDTER   | BOQBEQ   | CIHGIK    |
| CIKVIB   | AMUVUB   | COGHOX   | BATTAT   | CASGEI01  |
| CIQFOZ   | ARASOB01 | CUNCAP   | BESSEZ   | COQYOY    |
| TAYPIV   | COMHAN01 | CEZGOF   | AYIHEV   | BUVYOI    |
| DAJFUS   | DIBENZ11 | CPHACR   | BOQBOY   | AHEBUK    |
| BOZROY   | CUNPIL   | CIDSEN   | AWOBEV   | AKEKUW    |
| BAZYUW   | COBZOK   | CALFIE   | BOXCEX   | AMODAI    |
| BOPJOG   | ACBIPH   | AWODOH   | AHEJAZ09 | BIJDOP    |
| BAPZUP   | ADULOA   | CIBTAJ   | CIQNEW   | AJIXUM    |
| BAYHOB   | CUQKII   | ATEZEE   | BUZROD   | AREJUE    |
| CAFGOH   | BICSOV   | DICYAQ   | ALUQUT   | CIVTAE    |
| CURPAI   | CUXBII   | CEVDAK02 | CAWMOE   | CUQCAU    |
| ARATAQ01 | YEHSIQ   | BUZFEH   | BOCDUS10 | CAYZAG    |
| BUYXIE   | BABYEJ   | CIHMOW   | CUYSUM   | BUNQIM    |
| AWEVEF   | ADEKOK   | DAFBIX   | AMOSIG   | ABEKOK    |
| CAQWID   | ALEXIA   | BAZOCT   | ALONUL   | AKIPUF    |
| CUPJAY   | ACSALA20 | DECPUW   | CIRSED   | AGEHEB    |
| HEFGAD   | QAZSUI   | DEDMAB   | CUDQID   | CAMMIM    |
| CUQYES   | CAMDUS   | CIMRIB01 | BAQDOO   | BOLJOB    |
| AJETIT   | CIYFUN   | NECYEC   | BOXYIW   | AJAJEC    |
| DECNEE   | DASHUD   | AMIYEA   | COGVEB   | DACXAI    |
| CARKIQ   | BETNUK   | ANIZON   | CEMVEV   | CIWFUEU01 |
| DAFMEE   | BEDPUX   | BETFAH   | CARYOM   | TEGWIO    |
| BAMYUL   | DALZIA   | CAMVOE   | CIVSUX   | ARICEL    |
| APIFOW   | BICWOB   | AMXBPM10 | ADUHEM   | BALCUP    |
| CINGUB   | DECUSN   | HEDKIN   | CUZKAL   | BILVIB    |
| BUSJEF   | BNPERY02 | CEPHEL   | BAFKOK   | AGAMEA01  |
| BEXLIB   | ALITOF   | CIQREB   | DEGGOM   | QEFDAJ    |
| CUBQEW   | BOWGUP   | COKJAO   | ANOFUF   | ANUXOY    |
| LEGMES   | BOKYIL   | AMUJUP   | DEJGEE   | DACNOL    |
| BICSEN   | COWNIN   | DCTXAN   | APOXOT   | BAQCAZ    |
| ATEHIR   | BAWTOL   | DCLANT10 | ADIRAH   | BIFRIS    |
| CIGTOD   | DADBAN   | DAWSOM   | ACUQOG   | AVEWIJ    |
| AJULAS01 | CAGKUQ   | XEFKAX   | AHIKUY   | DEJGII03  |
| BEPYIE01 | ABUCAD   | AZAFOY   | DAYNOH   | CUSMOU    |
| DAFYEO   | CUMVIP01 | DAWHEO01 | BADJOH   | HEDFOO    |
| AYUJUA   | CEVKEV   | COCBEC   | CIYDIY   | AFOFEI    |
| BIBQAE   | AZERON   | BEGJOO   | BIKLEO   | LAYREL    |
| DIHDII   | DAZCAL   | BALJUV   | DAXCUD   | BUVJEI    |
| AHUQOK   | AZOTIT   | DAMPIR   | COZYUM   | DACXIQ    |

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| ASUJAA   | DASDEH   | CANDOM10 | BIZXAK   | CEBGUL   |
| CASGOS   | CODDUW   | CUCHUF   | ACOGEG   | CENRIX   |
| CORNUT   | AXARUM   | ABOQUD   | CANTAO   | ADOYAT   |
| ACEQEG   | AKOZUW   | BEBXUB   | AKATIQ   | BTRYPT   |
| BOLMIZ   | BILDAD   | DEXYOV   | AWAHOX   | AMATOX   |
| AYEGEQ   | ANPHXN   | CIHHUW   | BRFUSO02 | BEBDET   |
| BENZID13 | CUVJIO   | CIMZAB   | DICRAI   | CIHLOV   |
| CUCDAF   | BUCKUH   | AZEJEU   | CAWHOY   | DADTEH04 |
| CEPNIV   | ADOTUI   | BAGXOX   | BAXNAQ   | DICFOK   |
| DEDCEX   | AXANEU02 | ACUYAA   | QAYHUW   | ACOKUA   |
| CAPZOL   | BILCUU12 | BARKAH   | BAFYOZ   | BIGBEY   |
| DAXSOM01 | GEHNOZ   | CIYSUZ   | APEZEB   | CEPFAG   |
| COYPIP01 | AWUFEF   | LECWIC   | CAYTOM   | CIRLUL   |
| BIBSUB   | COXCAT   | CUWCAA   | COVDOI   | DEHXIY   |
| DAMPEO   | WEBGUI   | QEDVED   | ASUZUK   | BASJAI   |
| COVPIM   | BUCKOZ   | PECDIN   | AYUKEL   | DAQNOZ   |
| GAYZUE   | AXEHER   | DETGOZ01 | BHXPAM10 | CEMZEB   |
| AGIPAJ   | CIPRUQ   | NEBXUQ   | DABVAD01 | BORLEA   |
| CANXAR   | HEHJEM   | DIKTAS   | AYATEA   | BBZOCO   |
| COFYON   | ANISIC03 | DABLAV   | ATEVOL   | BAXHEO   |
| AQEBAB   | CONPEB   | BAWVAZ   | AXUDED05 | BUVKEK   |
| BIFQIS   | QEDTIF   | DANTEN01 | ABIBIY   | BAKCUM   |
| AQUCEV   | DACBEQ   | ADODUT   | CEXNOJ   | BASMAL   |
| BUBLIT01 | CUSWIY   | AZUKEM   | NEGJIV   | DAGJOK   |
| LEJRIE   | AROBOZ   | COZCUQ   | DEPRUM   | BOLGOZ   |
| AXAMES   | BERDOT   | BOKPEX   | BICZET   | TEHGEV   |
| DAKZAQ   | BARVEV   | BAKYUK   | DIBENZ14 | ADAKOG   |
| BOPRAZ   | AWULEK   | DAHBAF   | ADUQOG   | CAYXEI   |
| CIPFAJ   | BOMSIH   | BEJZEV11 | CUWZOL   | AQANEL   |
| CAWDUB   | COVPEK   | AMUGAS   | ACEPII   | AVUTOB   |
| CUNJEB   | AZEQUT   | ACORUH   | TAXRIW   | BOWVIT   |
| ABUSEV   | BODFOR   | BATKIR01 | DAFFIZ01 | BUWBIF   |
| CUXXAW   | ANIVID   | BEDQEI   | BAVDEJ   | CEDPEI   |
| ASOXUC   | DAQVUM   | CUNTUA   | DERVIG   | GECTUG   |
| CINNDS01 | DIJLIT   | ANIXUR   | BINAPH12 | DAXXEI   |
| CEYQEC   | CORWAI   | ATOPOP   | BEVROJ   | BUFQOI   |
| CABYEK   | AVAFIM   | BOQTAC   | BZTETO   | BOYHED   |
| ACSLCB10 | BDPPRP   | CUQHAX   | BOFKIR   | CEPGEK   |
| CARXOI   | ABAGOB   | DERHIR   | AZUJIP   | BARKOX   |
| BESKEP01 | AXONIM   | ABABEL   | CUJMOJ   | QEDYAC   |
| BADVEH01 | CAFPEG01 | BUBSAT   | DEGDAV01 | AZOQEM   |
| ASECEI   | BASMAJ   | BUMWIP10 | COYCUQ   | AYERUR   |
| DEBYEO   | BEPZEB01 | AZAFEN   | BEYFER   | AZUYUR   |
| CESPIB   | CINXAZ   | ATUJOP   | DANTEN13 | DEGCEY   |

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| CUCTIE   | BOZDIE   | AZOMEI   | CUQFIE   | BEYTUU   |
| BARNUE01 | AMESEX   | APUDOF   | AMUBIV   | APAWEV   |
| AXOWAM   | BMBZCH   | CUQGOK   | BANZIA   | BUBHIP   |
| VEFNEC   | CAQKEN   | DAYJEV   | DIGGAD   | CIYLAY   |
| CAHDEW   | BADJEX   | ADABOX   | ATELER   | CUFQAW   |
| QECLIW   | DATMAO   | BAVYOP   | CIZRAF   | CARBIJ01 |
| CARWOK   | ALUVOS   | AQEFAE   | DEBXAL   | BUXGAD   |
| CIYDUK   | AHUNEX   | DEJBUP   | DASJOX   | DASPUL   |
| ASOHUN   | AGUZUZ   | AHAVAI   | CEFSEN   | DIDJEG   |
| AWAZAB   | CIYRUY   | DEMTUL   | CUWQUI   | ARUBEV   |
| COCHUY   | BUVNIQ   | WAZHIR   | AKUQIH   | BZAPRM10 |
| CAQZOL   | CAHHID   | DAFBOD   | AKOFOW   | CMPDZB   |
| WEDPIH   | BEKBAV   | DIMNAP02 | AKESOA   | YEJPIP   |
| BAGVOV   | CEWYIN   | CEHRUD   | CEPPIX   | AMHCIN   |
| ABABOV   | CAZSAX   | BAXCOT   | CISMEX   | ASOFOD   |
| BAQBIG   | BIKXID   | DAQHUY   | DAPNIS   | AYUBIG   |
| ADUXED   | BIXVIP   | VEJQAF   | AGURIF   | UQUYIQ01 |
| AHUMEW   | CURSOZ   | CUZXUQ   | ATIQUR   | ABOJAD   |
| DEYREG   | BAMTEO   | BUMHUM   | BILJOX   | CIVWUB   |
| BOHTAT   | AWATUO   | ANUYOZ   | CUWCEE   | ALORIE   |
| ASOTAE   | CBENPH02 | WAZMUI   | BEPZIH   | DAMLEL   |
| DEKQOC   | AZPCYM   | CAGDOG   | ANISAZ04 | CAVGEN   |
| HAZDUK   | DEKMUC   | CIDKEH   | CEPZAZ   | AGAKIE   |
| AREROE   | TEHCOB   | ABEFAQ   | DIDJOQ   | COMSEE   |
| AGUREZ   | CASGAF   | CHBZOA10 | ASOTEH   | BAVXAA   |
| CEDPOS   | BOCZAV   | AGEBUL   | TEHBAM   | ACRDIN06 |
| CAMHAC   | ACIYIX   | CARNOA   | CEFSAJ   | BZTROP10 |
| BAJSUC   | CAHXAM   | CEYJAR   | ATUGAX   | BAHROS   |
| CFPZBZ   | APELAJ   | VEGBER   | BAXBEI   | CUFRIF   |
| HECLAF   | ANIBAC   | BEBBUH   | CIMWOL   | CODDOQ   |
| ACAGIX   | AJEGOM   | BAQCED   | AJUQIG   | ARUGEB   |
| WEBZEL   | BUVBEZ   | CUQCAU01 | CAJQAG   | BZILBY   |
| BAFYEM10 | DASNOA   | BODKOW   | CUXYUR   | GEBHED   |
| CEBPAA10 | AWOQUA   | OHOCEV   | BUQPEK   | CELCIF   |
| AXOXUH   | CIPVII   | ATAMEO   | CARREU   | COWNEJ01 |
| BAHMIG   | BEGBAR   | ADELUS   | DAFGIA   | AXUDED02 |
| DATHUE   | DAZKAT   | ALAHEA   | DEWZEM   | CASMIT   |
| BUYZOM   | BRACPH02 | CIKSIZ   | CICHEB   | ANIROG   |
| QAZYIC   | ALABOE   | AYUVOH   | ACEFIZ   | DELKEL   |
| AHACUJ   | CPCPRB   | CETDUB   | AKIPUH   | BOPSUW   |
| ARERAQ   | DABVUX   | AVUXAS   | CUYHEL   | CEWYEK   |
| WEDPED   | COWXAP   | MAZREN   | BORZOY   | AGATIN   |
| CAFGOF   | DERSOJ   | CAPBIG   | DAKDAX   | COYJAB10 |
| QAYJIM   | CEBJUR   | BENLUD   | BONXUZ   | COZTIW   |

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| AQUBEV   | DIDRUD   | CIQDUB   | DATMIW   | AXADOT   |
| CEZCEQ   | DACGOE   | CIPTIF   | AWUXAT   | BZCPTK01 |
| ARABOK   | DAVJOC   | BOGZIH   | BYITOT   | CONCAL   |
| AGAVUB   | BEWNEY   | BUNROT   | AZEYIP   | ANEWEW   |
| CUQXER   | CUCKES   | CEXKUM01 | AXUSET   | AZIJOK   |
| BAGXEN   | AFOFAC   | BAQROD   | DBZOSS05 | AFIPUC   |
| DASPEV   | CAPDIJ   | DIGXOH   | BEPJEN   | BURMOS   |
| DBNTHR01 | AJUMOJ   | BECYIT   | QEDKAO   | BAFLOL   |
| DAJGOL   | AZITEK   | ABIJUT   | DECCAR   | BELZEY   |
| BALCAS   | BUGPUP   | ALUKOH   | AROHUM   | ANIFOU   |
| BAPALC10 | CETRUQ02 | DASPOF   | BAKWAL10 | DIMQUN   |
| COJKET   | BIRFOX   | BOCWEW   | BAKRIQ   | AVAKOX   |
| BAKWOA   | CUVXEY   | CIRDIR   | ANICEH   | DANTRO02 |
| CAJWIW   | APELIR   | DAJMEH   | COVYES01 | AHIDOM   |
| COSXAL   | DIBENZ04 | ASUMOR   | AMOBIN   | YAZXAB   |
| CENBON   | DANKIN   | BAGTUZ   | DEBQEJ   | CPHPPS   |
| DETZUX03 | CEDVEO   | COXJAC   | MODDOA02 | BAVTIE   |
| CUNQAE   | AVIWIN   | BOYREM   | AJEDOI   | COTROT   |
| QECNOE   | AXAXON   | CUWBOM   | AXAMIW   | BIHYEW10 |
| DEMSUK   | BAYCUB   | DAVWUU   | DAVFEN   | BOYDAV02 |
| ADIBIA   | COCJAG   | QAYHOQ   | AVIYAF   | CARYOK   |
| BYIMVX   | COTQAE   | BAPRAN   | ARAZIC   | DELWUN   |
| BUFWEE   | LEGCUY   | BABMAS01 | BUDYOP01 | CANCEA   |
| DAMZIA   | CAFGEV   | BOMRIG   | CHRTCQ01 | CUMHEY   |
| BUSQOV   | DADDIY   | ABUNOA   | CAKZUJ   | FECHAY01 |
| COTGUP   | BRBZNT03 | ANETUJ   | FINHIU02 | DAJKAC   |
| DIFMEL   | BUCJUG   | BAYNOH   | ABOWET   | DIKREU   |
| COBNUD   | BEVQUQ   | BANPAI   | ABOBEB   | BEWBUC   |
| BAWNUL   | ABOVAP   | BIHMIQ   | HAZSOT   | CAYGUF   |
| YEGQAF   | CEGBOH   | AWEROJ   | APEYUQ   | ATERAS   |
| ALOHAM   | AWOXEP   | CUVTOC   | BAKTEN   | AGUXEF   |
| AXURES   | AREFIO   | ARUVAK   | BERDOS   | CIQMAR   |
| BARVIA02 | APIPOG   | AREPIY   | COBJAG   | BEZHIZ   |
| DADBIV   | BEZLEZ   | DADSOT   | CUMKAY   | APUWAJ   |
| DAXLIA   | ATECAF   | DICXAO   | CEGSAI   | WEJGOK   |
| BEQCEH   | CAYXUY   | BAWFUD   | BPTPCA01 | BUJTAC   |
| DASBII   | DAYXOR   | DEHBEA   | DBNTHR02 | CESXAZ   |
| WEHHOJ   | HEDHIK   | DHTRBP   | BISMIB   | CEWYUA   |
| COTJOL   | CEJJAD   | BERXIG   | COFZUU   | CACYAJ   |
| AZEYEL   | BUNYIT   | AGAXUD   | MEDNOB   | DIFXIB   |
| AFESIO   | CERKEQ   | ACITOX   | BUKTUY   | BIRKOC01 |
| CIVRUU01 | BOXTIT01 | CARLOY   | HEJJIS   | AMOQIE   |
| DEGMOS   | DIBENZ15 | WEDGOE   | BIXGOF   | CUBJIT   |
| CABCEQ   | DICHON   | CEGXIX   | HEHWOJ   | BADQEC   |

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| BINPOD   | CEJFIH   | BAKXOD   | LEFLEQ   | DICFOK10 |
| CHBZOB20 | COVXEQ   | APAXAR   | BONZUZ   | DARVUN   |
| AKOTIF   | NEJGUH   | BEZHAR   | HEKLIV   | BAFWOU   |
| AZEXIO   | DIDKEI   | AYUHOT   | TEBRIE   | BEGTUC   |
| DIBVER   | BAWGIQ   | DIDGUS   | CETKUJ   | CAGLAX   |
| BEYFAO   | AKOYOO   | BEJLIM   | AYUWOH   | AWEMOF   |
| DAQJOX   | APAKAF   | CAJSUE   | AYEPOL   | BEMZEZ   |
| BIJLOX   | AXEQEA   | DALTIT   | BEZBIT   | BEGTUE   |
| ASOHAR   | WAYQIZ   | BEMXTZ10 | AJUFIV   | BALQAI   |
| DADWAJ   | BANWEV   | AGOTIB   | CITSEE   | CURYEU   |
| APOXUZ   | HEHZEC   | CIWYEN   | CAFTEL   | ARICAH   |
| TEFMUP   | CUTZUM   | ARAYID   | AJEGUS   | GEGKOV   |
| CUJNAX   | DAYTUV   | COVCAT   | BALFAW   | AJEDIC   |
| BZCPTJ10 | AWUTOD   | BAPGUW   | ARABUQ   | DADRAD   |
| CIBFOK   | ASAKOU   | CACVUX   | CEJTIU   | AWEKAP   |
| AGAYAK   | DALJOS   | OFOJOI01 | AHAYOY   | ATUQAJ   |
| ASOREF   | BUCVAW   | CEJHIJ   | CEQGEL   | DEHYUN   |
| BUWSAP   | AFEBIY01 | NAYFUR   | BAYJUJ   | DIGGIL   |
| DELDII   | BEKVIW   | ATIPOI   | DAFPEI   | CUVJUZ01 |
| CIXVUC   | CLMIND   | BOLQAW   | BANZUM   | CUMQIK   |
| ARIXAC   | AZOVAN   | ADAFEQ   | AKEKIK   | BENZID12 |
| SAWSUH   | BAHDIY   | DIGTOD   | QEDJER   | BECNII   |
| CUBJEP   | VEBRUS   | AXENAU   | CICJAZ   | YEBXUB   |
| CEBVOW   | DERBOS   | DATMEQ   | ASOHOF   | ABUTIA01 |
| AXOQIP   | BZDCPB12 | VEBWUX   | DEWCEO   | ADOKEJ   |
| CILLUE   | COUMAR02 | BAZGEO   | BUWYEZ   | CIQZAD   |
| AXABAD   | CAFTIO   | TEHTAE   | CUHRII   | COJMET   |
| DAZQIH   | AZIBIV   | AZABIN   | BIKDAC   | CORPII   |
| CEGDEZ   | AHASOS   | BAGXAJ   | CEDRIN   | BILQUK   |
| CAFWUE   | ASIZUY   | ZAXVOM   | AYOYUJ   | CUPNIM   |
| COTYUF01 | DERXAA   | VEBPOK   | CIVTUY   | ABOVOE   |
| HEDQEP   | DIJZON   | NEDQIZ   | DILDAF   | CUKYUC   |
| COCMOX   | AVIYIP   | BIMSIZ01 | AJUMIC   | CIKKUE   |
| AWAPOD   | BOLMEV   | VEHVEM   | AJUDIT   | CEKVIX   |
| AVOBIX   | BAQYUQ   | BEHROX   | COQQIK   | BAPWAS   |
| DEZSOQ   | DAVFOW   | CIZPIL   | BICJOO   | BUGJIW   |
| CANMOV   | AVEPIC   | ADIGUR   | AJUXUZ   | VEDSUV   |
| ACEXOW   | BAHDOF   | BUCKAN   | BEFJUT   | COTCAR   |
| BIHPOZ   | BONXAF   | BUPPOR   | DEBVOX   | NAYGEC   |
| CUJPIG   | ABUCUV   | AFIBIB   | BEGNEI   | CILTAT   |
| BANMAE   | ABULIU   | DAYJAO   | DEMFUX   | WAZXUT   |
| CIGSOC   | DATTUO   | ATAVUN   | CUJMIE   | BAGXUC   |
| ACOBEB   | AYUTAQ   | AVUZOI   | DICPAI   | XEDVUA   |
| AZOSUL01 | BUTCEZ   | CANNOW   | PBPACB03 | COHHAI   |

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| BIXPON10 | BEPHSI  | CAZZUZ   | QAZGOQ   | CAJFAX   |
| ATIDAJ   | ADELLOL | AMEQIT   | AKULUO   | BARYIC   |
| CEJMEK   | NAZYAR  | DAWSAV   | CANLOS   | CUSSUG   |
| DIDPUC   | CNPHAN  | DAYLIZ   | CAGNUV   | APOWEI   |
| CEGSOY   | COQQUW  | BOJFOW   | BAMBOJ   | BOGFOT   |
| DIFTEE   | CEKDOL  | DEPGEK   | ABUHUD   | BIWFAO   |
| ABUBIJ   | VAYZAZ  | AQAMOW   | BUZSOF   | CEYJIZ   |
| BITDAL   | CEXKIB  | DAVBIM   | AVOTUB   | DETZEH   |
| TECGEQ   | BUDJUG  | CEVPEZ   | BUCNEU   | QEDQUO   |
| DILDOR   | ANIYEC  | DEDZUH   | DAKLEJ   | CIQRID   |
| BIHXAS   | DALDAY  | DCDPCP   | BANNUA   | COKLIZ   |
| AJEDOK   | BUTDOJ  | BUJVOS   | ACETUZ   | CIZDUM   |
| BUXMOX   | VEGZUF  | CERHOX   | AVAWEB   | BILTAR   |
| ABALUM   | BASPEQ  | BASNOA   | BEJBEZ   | AFOLEO   |
| BXBFUR   | CEGYEU  | DAWCIQ   | BUMBOA   | BAVQEX   |
| DIJTIA   | BUVXEX  | CUKDUI   | COBVIZ   | CEWMOI   |
| BURMUY   | VEGQEG  | ABAHAO   | BUNTUB   | ANUQUX   |
| CAQZUR   | AFANAW  | AYANEU   | COYHAB   | BIYPUW   |
| ABESOS   | BAGTOU  | AFOHOU   | BENRIX   | CALZAR   |
| BICKOP   | CENSIY  | COFHAI   | BUGPEY   | RASZAP   |
| CEWZUB   | AZISAD  | BAVXUU   | DEYGUL   | ACSALA19 |
| BAGRUX   | CMXPXZ  | ANTPYR   | NAYLAD   | DAKQOX   |
| CADKAW   | APUGUN  | NAZTIU   | ALAFOI   | AFIZIA   |
| COXLEG10 | ANDRAN  | COMHIV   | ASEVAX   | BEPPAO   |
| DECFAT   | DELJUC  | CAWFAJ   | AZAHUG   | CIDCAV   |
| CUSNIO   | GEGKIP  | APOCOY   | ACOGIK   | ABELEZ   |
| DAFVOW   | BATLIS  | ACENAP04 | HAZSUZ   | CAQSUI   |
| CEHWUI   | AJIBOL  | BUYDAA   | AKUSAA   | BHNAPO   |
| BOWWEQ   | BAHGAU  | BEFFEX02 | CABSEF   | BORREM10 |
| CUTCUQ   | AGONOA  | BUVFUV   | CUNDIA   | CEFHUQ   |
| CIQXIL   | DAFREK  | DAXQUR   | ANQDAZ   | ALOKAP   |
| BOPQUS   | CEGVER  | COYQIS   | AWABAD   | MEHVUT   |
| APUVUC   | ATAYAV  | AJESEO   | COSQUX   | AGAWEM   |
| CUFHIW   | CURJEF  | BEVJIX   | CIHDUT   | YEJPOV   |
| AJUQOM   | BIPHME  | CAFXIT   | BEBBOC   | COFGAG   |
| QEDXUV   | CUBWAZ  | ACUPAR   | TEHPAA   | BENZID07 |
| BADSIJ   | JASTIJ  | CIPGIR   | DEBLUR   | DIMNAP03 |
| DIBENZ12 | WEGCUJ  | DERJAM   | MEGRAU   | CNANTH01 |
| WEDQAA   | AYUWAS  | BOJVAX   | DAXRUR01 | BEFSAG   |
| BEZXIP   | BAVCAF  | BECRAE   | CEPPOD   | CUCBUX   |
| DEWGUH   | BAXVAA  | AJEGIH   | DADNUR   | AQABOJ   |
| CETHEP   | CAQBAA  | DAQJAJ   | DABHIX   | ABIZUJ   |
| ARAWIB   | ATEQUM  | BEXKAS   | AKIXUN   | AVILEW   |
| BIFVUI   | AZEHUI  | BEQBEF   | CLPXAD01 | COQDER01 |

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| NEDZEE   | CABGUI   | DABCUG   | DEMYEZ03 | AXIHAR   |
| BUDXED   | AMOCIQ   | AXUDED08 | CUNJIG   | DHXANT10 |
| COKYEH   | AJEXOE   | ASIDIP   | APUYIT   | ALOLAQ   |
| AXUDED03 | BAJRAH   | AJOROH   | BOMDAJ   | DEJSAM   |
| APIBEH   | COCFAC   | DIBCIC   | COSRIM   | AVUNUB   |
| BUNKIF   | QESNIM01 | ANOXIM   | CEWMUO   | BOPGAQ   |
| BANSOZ   | CIBPEI   | DEXWAG   | CALDOL   | CUMQUX   |
| AWIRIJ   | VEDDEQ   | CONXUZ   | COCXID   | AYUQER   |
| TEHDOC   | CAKBAU   | CUXYIE   | DAZJOF   | CAYNIB   |
| BIWWUZ   | BOSYAL   | COJYUV   | DEJWUM   | AVEGIS   |
| DAVVEC   | DANDUT   | CUWGEI   | DADTOU   | MEHRAV   |
| CUHBIS   | DEFGEA   | BUPPAD   | ABILOO   | BAWMEU   |
| DAJZAP   | DIGMEL   | DANNAH   | BUWDED   | ATODOD   |
| COSFUN   | CAFFUM   | DCPZCO10 | ANAZUM   | AFUNOG   |
| GAYXOW   | BUXLOW   | COFSUL10 | BEFCEU   | BEDVIP01 |
| AVUDEB   | AWAVAW   | GAZXOX   | COCJEJ   | BINXIH   |
| BOVVUF   | AVARIZ   | AMOHAN   | BAGJAU10 | ACOCAY   |
| AZANUM   | ATUJIJ   | HEFCAZ   | TEHFAQ   | ATAMUE   |
| AMUHOG   | AJEXIY   | AGOBOP   | DERVUS   | CIVRUU10 |
| AJAXUE   | BAXBOS   | BOJVOL   | DATJOA   | AHUSIF   |
| DEMYEZ02 | AFUSOK   | AXALAN   | AXAVUR   | ANUMAZ   |
| DAXSOM02 | APUREI01 | BAVCUZ   | BACSUT   | BITVIJ   |
| BOWPEJ   | DEMBAZ   | QEDRAV   | DIBZUK   | BACPEB   |
| BOCCIH   | AWUQIU   | AXELIZ   | COTLAA   | AMEZEZ   |
| BAKWUF   | BUDPEW01 | CEWKAQ   | CUSHAA   | AXUDED06 |
| AYEXIN   | APALOU   | CICJIH   | CUMHOI   | BOWTEO   |
| AGIROZ   | TECXAD   | AFUJUH   | CIPQOI   | AYASOI   |
| CNDPEU10 | BANDIF01 | BABVIM   | BAPQOY   | AVEREY   |
| CUGWEI   | BEWYUY01 | ABEXOX   | CAVMOB   | CIWYAJ   |
| CANDEB01 | ANTCEN17 | BUXQIU   | CMBTDZ   | CORWOV10 |
| DELQAN   | CABTAC   | AKAYIW   | CUWDIH   | CONQAY   |
| BUPDUN   | BAWWOO   | ACOWIZ   | ANIXIG   | ALOGOZ   |
| CAMGAY   | AJANAC   | ARORAB   | BUXWOI   | BODHAE   |
| CIJYAX   | CADBAN   | DAGXIV   | BEJDUP   | BAFFOF   |
| AFITIU   | DAGWOY   | BEZHEV   | ADICIB   | CIFNOV   |
| CIXHOI   | ASIZAF   | CAZJOF   | AQEDEG   | CEZCIU   |
| TEBSUR   | CEGQUC   | AGOPOD   | BUNVOX   | AKERAK   |
| DABBEQ   | ACENAP03 | AMUCIW   | DIDGAY   | CIMQEW   |
| BALXET   | CANPAK   | CEQCOR   | AWOMIK   | CEMBUT   |
| ASASOD   | GUHCOB02 | AZAMOE   | BAXPOI   | AYUYOJ   |
| BIGLIM   | DABLID   | DATXON   | APERUK   | AZEGUH   |
| BOPBIR   | CUPXIV   | AGEHUR   | AFADEQ   | BAHDOD   |
| AJEZOF   | CAPISQ   | DEMBON   | ANOYAE   | BUJRUT01 |
| AWERUP   | BENTIZ   | ARAZID   | BOTCUJ   | BZHYDX01 |

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| CEDPOR   | AZEYUB   | DAKRUF   | CIPQID   | DAXTIH01 |
| QECTUQ   | AJOJEP   | CEWHES   | AXOQUA   | DADNEB   |
| BENTUJ   | TEGYUC   | AKERUE01 | ACETOT   | COMQUQ   |
| FOCYOM01 | COWKUW   | ATIXOS   | BUCKIV   | BIVWEJ   |
| CACKOJ03 | CEBGOF04 | DAVQUN   | COTXUE   | CEWYUZ   |
| DATGOV   | BAQYAW   | AQERAQ   | CEGCAS01 | BOWGOJ   |
| AWELIY   | WEGWAJ   | ATACON   | BOKZAE   | BEXLOF   |
| AHIQUD   | CANWUK   | QEJMUQ   | CEYKOG01 | BINGUC   |
| DANCIG   | DARYON   | BAMLAF   | BALVIW   | CALWOD   |
| BUDJIV   | DBONAP   | YEBMAW   | DEXWUA   | LEJZUY   |
| DACWUC   | BQUINL   | CAZWEF   | ACUDEI01 | ALONAQ   |
| AFOMOX   | CUNDAR   | ASONED   | BESFUB   | BABMUP   |
| CENCUU   | BENMIS   | AGELED   | ALAGUR   | TEHNOM   |
| ALIMEN   | CIWYAK   | CUFHUH   | ACEYIR   | AJOMOC   |
| AZOOJO   | AKOSAW   | CABQUT   | CAVHOZ   | CISGUI   |
| BENZEB   | CEKDIH   | AVILAS   | BUTSEO01 | ASONAZ   |
| JAHQER01 | DIBLOP   | COBYOJ   | BEGZIX   | DEJMUC   |
| BEGTOW   | BUKMUR   | AYIRIJ   | DIBBUN   | AXEPID   |
| DEHCIE   | QEBZAB   | ABOBAX   | ADAMOI   | BUGTII   |
| DAKXOD   | CILTUO   | DAFKAY   | BEQKEP   | ACEPEF   |
| CEFSOV   | BOHROH   | HEGKIQ   | CIYTOU   | BUJXEK   |
| BEFZUI   | CUHSAA   | AMDPYR10 | MEDDAQ   | CUQYAO   |
| BOTTUA03 | CAMJUW   | ADIWOZ   | BEJTAM   | CIGPUD   |
| MEGCOT   | BUHQOK   | GAZCES   | BIQCAF   | AHAPEG   |
| BEXLUL02 | DEWZIP   | CAKMEI   | AXEFOZ   | ASEFAF   |
| DAWZOS   | BAHRUY   | AHEDEY   | AYAGUE   | ACUHAH   |
| DENYUQ   | AWUGII   | CEMHUZ   | ABAQOL   | BMBZDZ   |
| DIGPAK   | TEGVAF01 | NEBNAM   | BENZIL03 | ANEWUM   |
| CUHHET   | AJEFAW   | AVAMAM   | ATEGOW   | AGELUV   |
| AJOSIC   | CIKXOK   | AQIQOI   | BUJWAG   | APUXAK   |
| ABEKIB   | CIJWEX   | MECXEA   | AGALIF   | AVEWIH   |
| BELQEQ   | DADDER   | AYUVUN   | AVEHOA   | DAXMIB   |
| AKUXAG   | AGEWOA   | BESHUE01 | AHUXOR   | AKEYOF   |
| BOPNOJ10 | CEMJOT01 | ABUNIU01 | BOVSUC   | BENZID14 |
| CIJLAK   | COZLEK   | AGAJOI   | BOLYUW   | DEWSOO   |
| CIRNAU   | AMEXUL   | AYORIQ   | CARYIE   | HEKRAT   |
| CEWYAF   | CUKGOE   | AGERAH   | COPVEK   | DESMOD   |
| BRANIL   | DEMCEE   | BIDWIU   | LECCOO   | AYOCIA   |
| BATNIW   | TEHNAY   | DAXBIQ   | DARXEC   | COXBEW   |
| HEGWAU   | DASJIT   | AGISUG   | ASEWIF   | BONJIY   |
| BONSEE   | CIMBAD   | ACEBIT   | CIQGOZ   | DATGUB   |
| COXKAB   | BAWXED   | BUFQEY   | TEFBOY   | BAPYUO   |
| BUDXUU   | BURLAC01 | BIKBIG   | CRYSEN02 | DALHED   |
| COMSOO   | BEYNID   | CASZII   | ACEWAH   | CATWEC   |

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| BUWGOR   | BURFUR   | AXUMEN   | BALFID   | BECPEH   |
| BAWYUU   | DETSEB   | AHUFEP   | BRBZET10 | AVILOG   |
| BPHENO03 | IMEMUI01 | CLPHCA   | AMOQOK   | CUNPUX   |
| BTPMET   | BUKMIF   | CBOZET   | CUZWAX   | AFIFOL   |
| AVULAE   | BAZVEE   | LEJSEB   | ABIWIU   | BOVWIU   |
| ARAZUP   | BULLUP   | CIRHAN   | DABGIW   | DBEZPO   |
| COPKIB   | CAXRAX   | DARYUR   | DECCY    | DAYVAD   |
| AFIJJ    | CEHYUL   | CIWLUQ   | COQRAD   | AROFOC   |
| CUCLAP   | ABUMZO5  | DERFEM   | DAMWOE   | CIBPIM   |
| DAQLAL   | BIYSUY   | AJEVOB01 | BOZXOE   | BOHBIL   |
| CADFAO   | CURREO   | CEWGUG   | AJOSID   | ARUWIU   |
| ASIKOC   | AQABUQ   | ASEPOE   | AQOFIV   | AHILIN   |
| APUCOE   | BAWDAF   | ASOYOX   | ALODUC   | DAZKUN   |
| ADUWAY   | ACONUD   | BERWEA   | BEDFUL   | AZIWEN   |
| AFAZIS   | ACINDD   | DIGWOG   | COZTOC   | APAPYR   |
| BEFQEI   | CEXQUT   | CEBBAN   | ARAZOK   | APUGUO   |
| CIWCIW   | BRPCYQ01 | BINDPY   | DEZKAV   | BIHWIZ   |
| BIDREN   | AXEMIZ   | TEBPOI   | SAWTIW   | AGASUY   |
| ALUQIH   | DAVCOS   | BZCPTG10 | BUDJEP   | BECRIM   |
| BUJBEN01 | WEDJOH   | COMCAI   | AZOXIX   | DEPXOL   |
| BOHCEH   | BACVUX   | BAJJOL10 | ADUQUM   | CAGKEC   |
| NEGZAD   | AWEKUJ   | GAZBAN   | BAPRER   | CURFOL   |
| CEHGUT   | DAZYIP   | BEFVEN   | AHUFIS   | AMPTOP10 |
| BONTUV   | CAMPIR   | AJAROU   | ASAXEX   | NEHDOW   |
| COJWEF   | CUNHOJ   | ANIJUE01 | ANUBAN   | DEJMEN   |
| CUZQIZ   | CUBMIW   | NECGUA   | BIKCIJ   | ASITAY   |
| DIHNUD10 | DAJTEN   | BAVHOY   | CIGPEN01 | BEZGOE01 |
| CADXAI   | CUBXOO   | XEDBEQ   | DEGVUI   | CUZXOL   |
| BUXBUT   | DADVEJ   | CUYYUS   | ASEPUJ   | TEBPAU   |
| BEMZID   | HECNIP   | BOWGAV   | AKOJAN   | ACEYOY   |
| CIWXIR   | BZOYAC03 | DEWCAK01 | ATOFAR   | KEFFIN   |
| BOQXUC   | ACAYEL   | AYEFAL01 | ACAYIP   | CADPAA   |
| ARAGOQ   | AXEMOF   | APESY    | DADDER04 | CIZQAE   |
| AGARAD   | AXOSIR   | ALACEV01 | JAWBAN   | ACUMEQ   |
| CASHUC   | DICGED   | BOTTUA01 | BOCYEZ   | CODHAE   |
| BUPPOT   | DECFAS   | COCKEK   | BERHEM   | BEHZOF01 |
| CEFPUA   | COPLEA   | CUNQAF   | AGICEA   | BESLOC   |
| BALDUP   | DIFWEV   | BETTID   | CEGLOR   | AHETOW   |
| CUVSET   | ABICIZ   | CERPAR   | AJOHOW05 | ADEDOD   |
| CEMRAO   | CADZOZ   | BAGQOP   | COZSIV   | CIHHEG   |
| AROQIJ   | VEJKUT   | TAYQES   | ABOFAB   | TEHPUU   |
| BAGXEO   | DATDIO   | AFIGAZ   | CAQVEW   | AMATAL   |
| AGINEL   | CNCHAL   | QEGCUD   | VEDGIX   | AMOWIK   |
| AREVAW   | ATIWIL   | SAYCUT   | CIJXUO   | BAGLED   |

|          |          |          |          |          |
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| CAWGAK   | BOQVUY   | CUMPEH   | ATEKEQ   | BESNAO01 |
| AGATAF   | AJIKIN   | DEBGUP   | AFERIN   | BONJUI   |
| ALEKEJ   | CIKLEP01 | AFININ   | DADCAM   | CIRLEV   |
| CODDEG   | ACIDEV03 | AXUDED07 | DABHET   | AVIBEN   |
| DIBENZ05 | BFUOXF10 | DEKRUJ   | DIBDUO   | QEGQOL   |
| DBANQU   | BETCAG   | BAXXEE   | ASUKIJ   | BEQWAX   |
| WEGVUC   | AFURCM   | FEGBAX   | DENHIN   | AXEBOW   |
| TEHHIA   | BIMYIH   | AQILER   | BIPHME01 | ACGLPR   |
| AXUNIR   | COCQAM   | AQACIG   | BOQHAR   | CURCAV   |
| CIWBIT10 | COXGED   | NAZBUO   | CORGUM   | CIVYUD   |
| AQEQOE   | BOBMEL   | AHOXIF   | BEQGUB   | DEXQIG   |
| BEGLAA01 | CEFSUD   | CEXVOQ   | BUQWUF   | ALACIA   |
| DAVBOT   | ABAVIL   | BAPWUM   | BEGVAM   | BIMSEW   |
| DENWAU   | COGYAA   | CUZQET   | BTCRDX   | AGOLAJ   |
| ASOLAX   | DAGTIP   | AJUZIQ   | DEPMIV   | ATOMIG   |
| DEBHEA   | AYEYOU   | CIRPOK   | ATEHOX   | DADPDS01 |
| NEBXOK   | AZONAE   | ATIJEU   | DAVFAH   | CEJVUI   |
| CIPWAB   | CAWJES   | ASIJIV01 | CAMGEF   | DIMGOV   |
| BAGGUL   | DAVTAY   | CAPDAB   | CUPYIW   | HAZXIS   |
| COBPAL   | AWECAG   | BACTOQ   | CAQXAV   | CEZTUY   |
| COFQIY   | DANCOM   | WEGWIR   | BEBCIU   | DEBHIB   |
| TEGZOX   | VEDKAT   | ATATIZ   | ATOZOY01 | COFQEU   |
| BITJOD   | CIBZIW   | BITNAT10 | BOPDER   | CEGCEY   |
| CUSLUX   | DARZUU   | ABUVEY   | DEGCIC   | BPHENO19 |
| CACDOA   | BATREU   | BAXBIM   | QECRIC   | BAPNAH   |
| DESSAV   | CAWHIT01 | BAVHUB   | CAPXAT   | HECKUY   |
| AGANIH   | BOSDUJ   | BUJGUK   | BEXMUM   | ADILAB   |
| ACOTUI   | BUBYEC   | AKUHAR   | DAKYOE02 | CUSKOS   |
| ACOVUK   | COLQUQ   | DIBPUZ   | AFOJIQ   | BODMIQ01 |
| CBXPCP10 | BUGQEA   | DIBZOE   | BOGZUU   | CEFXES   |
| BZCDOD   | AFOKUB   | AFAXAH   | NAZDIE   | AVIFUI   |
| ASUQAG   | DARVUQ   | AVUHEG   | ABALEX   | CADDIW   |
| CALDOK   | AZABAG   | CUSTAN   | BIGXOG   | AWUVAR   |
| CUDWED   | AZUBON   | DANKAH   | AWIWAG   | BAYDAH   |
| AKOWEE   | DAKYOD   | BUJTEG   | ACEQUV   | AYUZAW   |
| ADAXOT   | BIZZOB   | CUMVAJ01 | DEDDOF   | COJXIK   |
| CETQOJ   | AXASUP   | DAKPAG   | BAQQOC   | CBENPH01 |
| BUYGAF   | BEMHAC   | CORPIJ   | CAQLEO   | ACOSET   |
| COYNAF   | ABOFIJ   | DECPIN   | DEBLOO   | CARVAV   |
| PAZHUW   | CASHAH   | AVEHIU   | CUNNEG   | CUFWAB   |
| CATMOB   | ASORUV   | BAFYEP   | CAWNET   | COBFEF   |
| DIMNAP01 | BOVYAO   | CENXUP   | BUWRIW   | AHUFIT   |
| DACQII   | CAGKAZ   | APALAG   | DEXTIK   | CUYXIF   |
| CESVIF10 | DEXXAG01 | DAFCEU   | ANEDII   | AWABUX   |

|          |          |          |          |          |
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| CUVLUB   | CALTEQ   | COBJEK   | AZESTD   | APERET   |
| AGASIM   | CIQSAW   | CIQCUC   | AXEPUP   | BOVTOX   |
| BUWVIZ   | AXOLAB   | CAFMUU   | AKOVED   | DIGDUS   |
| BOTROR   | QEGLUM   | CADJEY   | AJOCEJ   | CEHBAS   |
| COPLUQ   | DAMMAH   | CIMZEF   | ABUMIV   | BISREA   |
| CUWLUC   | CUKDES   | AJOHOW01 | BONQUS   | CEGFOL   |
| AWUNEL   | BUMCIV   | ASULIK   | DIGSUH   | BASNOZ   |
| QEBREX   | ABOWIX   | DAGJUQ   | AMOXEG   | BADNAX   |
| ATUDUQ   | MEFZOP   | CIZGOH   | BZPPOS01 | DAFJAV   |
| AFIPIP   | COGVUR   | AKUREF   | COWNUZ   | AWIVEH   |
| DIJCOO   | ABUSOH   | BAWFIP   | AYANAQ   | AZENOK   |
| CILMAN   | ZEBDUI   | CIQHIU   | ANUVIP   | ACULIV   |
| BIQZOS   | CEPZON   | BABCIQ   | ADUTIE   | DEFGAW   |
| AXUDED01 | COGWUQ   | CEGBIB   | ACETUY   | AKELEI   |
| DALGON02 | BABLIC   | DASJAL   | AQEQUJ   | CAQBON   |
| CAMGIH   | CASDEI   | DAZJEV   | DIKGIO   | CIWJEX10 |
| DEXHEU   | APEKOX   | CAMNOV   | BAXMUJ   | YEKPAI   |
| BIQCIN   | BYITOT02 | BUNHAV   | CEWRED   | AKOQUO   |
| CEDVUC   | BULBEP   | DAYVIK   | BMBZTP   | CEWWOR   |
| DADCOD   | CXPTDZ   | DETHAZ   | AHEFEA   | ALAFIC   |
| CUNTIO   | HEHTIA   | AFUSAX   | BAPZID   | BULQOQ   |
| AGEKAA   | AKUZAH   | CAMZOI   | DEZNOL   | AWUKIN   |
| AFUZIK   | CAPROA   | ACICAR   | AZUMUE   | DECKIF   |
| YEFKOM   | BEBKUP   | CEKWOE   | BEDXIR   | BUSGIH   |
| AGAJUN   | COXKEH   | AYUWIB   | BATPET   | DANHUV   |
| DEYJUO   | AFEXOZ   | CUZYEB   | TEGMEA   | DEZWEEK  |
| DECDEM   | AVAFEK   | ABEFUJ   | CAKBEE   | BEKMIN   |
| CAGWUE   | ADUSOJ   | BETTAW   | HEDCEB   | ZEFPEI   |
| ADUMOB   | CARMEP   | DEFZEV   | COFJOW   | AFESEK   |
| AGAWAH   | CAHHEZ   | CEWXUY   | MAZMOS   | AGEXAN   |
| ABONIQ   | DEKKUA   | CEVYUY   | BEWTEE   | CATTID   |
| CINMAC06 | BAJNIJ   | DEGLAE   | CUHRED   | BAFPEF   |
| CEZGEU   | ALEMOV   | AKOJEQ   | DECYUF   | DEKNOY   |
| BICFUQ   | AKOGAJ   | VEDYEL   | ALAFID   | VEFVUA   |
| COHTIE   | ASONIF   | BOMLUM   | COZPEM   | CEWGES   |
| COLBUA   | BOXQEK   | BUXSIX   | CEVRIG   | CAWTIE   |
| AXOQIO   | ATEBOS   | AMEXOH   | DIDHII   | LECHAF   |
| CUBNES01 | AXOYOB   | BRACN01  | COGNOD   | AZADAG02 |
| CUVSUH   | ABACOW   | BOPTAD   | DHXBZP   | ALEXIZ   |
| DEZJAU   | CEKRIT   | DAPYID   | AXULOW   | CIKSEU10 |
| BOVTEN   | CECGOI   | DICNUY02 | DANTEN14 | AXIGUK   |
| COBHUV   | YEHSEM   | BPHCOY10 | HAZXAK   | DAGCIZ   |
| DEYBOY   | BIVRUU   | CAYPIE   | QEGNUO   | CANKOR   |
| ACOSIV   | BRPCYP02 | AWODEX   | DEGHIJ   | BARZUQ   |

DELKAH  
CITSII  
AGODEH  
BAFHUO  
BUDYAB  
BUFZUZ  
ALOHIT  
AQEDOQ  
GEFFOP  
BOBVOF  
CEZDOC01  
CIKFAE  
DAQPOD  
COPCUF01

AXALIV  
DAKYAP  
TEFNAW  
COMFER  
BUYMAL  
ACAYAE  
DAXRUR03  
CORTEJ  
BPEBXP  
CUGHIW  
CAFFAT  
BESMIW  
ARODIW  
COYZAT

APUQOT  
AVOYIT  
HEDCOL  
TEBCAH  
CODNOZ  
ACAXEK  
BUVDAZ  
BOCBOM  
AXIPUT  
CIPPUO  
ABOCUS  
ARIMIZ  
TEHFOE  
BITNAT11

CEJXOE  
COWBIB  
ACACTA  
ACUYIG  
BADTAE  
BICXUG  
BUWYEW  
ATUDIE  
CASBUU  
ACOTOD  
BAWMUK  
LEBKOV  
BAFZIU  
AFOVUO

ADAJUK01  
CEMBAX  
AWUSOB  
DEGLEI  
DEPJAK  
CUYCAA01  
BADMID  
COSNOP

## S5.2 ChEMBL structures

|               |               |               |               |
|---------------|---------------|---------------|---------------|
| CHEMBL6233    | CHEMBL6317    | CHEMBL507894  | CHEMBL1782891 |
| CHEMBL530730  | CHEMBL6512    | CHEMBL582894  | CHEMBL503670  |
| CHEMBL526346  | CHEMBL4116113 | CHEMBL3309345 | CHEMBL1093288 |
| CHEMBL501968  | CHEMBL1199062 | CHEMBL503828  | CHEMBL6218    |
| CHEMBL415615  | CHEMBL540947  | CHEMBL1076286 | CHEMBL6239    |
| CHEMBL4116156 | CHEMBL1082898 | CHEMBL6620    | CHEMBL158232  |
| CHEMBL589524  | CHEMBL268086  | CHEMBL609497  | CHEMBL265732  |
| CHEMBL608409  | CHEMBL1165739 | CHEMBL438329  | CHEMBL3309505 |
| CHEMBL507464  | CHEMBL589825  | CHEMBL1161924 | CHEMBL1077609 |
| CHEMBL4116093 | CHEMBL570853  | CHEMBL1076214 | CHEMBL500437  |
| CHEMBL501871  | CHEMBL265564  | CHEMBL1094711 | CHEMBL3309555 |
| CHEMBL1205595 | CHEMBL553669  | CHEMBL501542  | CHEMBL504800  |
| CHEMBL1214096 | CHEMBL4116123 | CHEMBL6521    | CHEMBL162280  |
| CHEMBL583727  | CHEMBL3309323 | CHEMBL1089598 | CHEMBL1078513 |
| CHEMBL1077805 | CHEMBL525228  | CHEMBL1213147 | CHEMBL1161178 |
| CHEMBL1214513 | CHEMBL507756  | CHEMBL1099016 | CHEMBL3309775 |
| CHEMBL541498  | CHEMBL1091719 | CHEMBL1084425 | CHEMBL3309304 |
| CHEMBL1077089 | CHEMBL443602  | CHEMBL1088782 | CHEMBL3347277 |
| CHEMBL1084042 | CHEMBL1215108 | CHEMBL4116099 | CHEMBL505403  |
| CHEMBL6222    | CHEMBL1077528 | CHEMBL503345  | CHEMBL155636  |
| CHEMBL525996  | CHEMBL6500    | CHEMBL501828  | CHEMBL1076072 |
| CHEMBL506308  | CHEMBL154556  | CHEMBL502187  | CHEMBL1160112 |
| CHEMBL4116103 | CHEMBL1159641 | CHEMBL6352    | CHEMBL1096263 |
| CHEMBL442894  | CHEMBL526882  | CHEMBL6517    | CHEMBL1187970 |
| CHEMBL1076054 | CHEMBL4116162 | CHEMBL6623    | CHEMBL504162  |
| CHEMBL154714  | CHEMBL501923  | CHEMBL500179  | CHEMBL1165499 |
| CHEMBL503237  | CHEMBL1224871 | CHEMBL490449  | CHEMBL505036  |
| CHEMBL571967  | CHEMBL553904  | CHEMBL1097360 | CHEMBL503422  |
| CHEMBL500090  | CHEMBL610484  | CHEMBL1082532 | CHEMBL500548  |
| CHEMBL1201843 | CHEMBL3309396 | CHEMBL164518  | CHEMBL505924  |
| CHEMBL503977  | CHEMBL3309458 | CHEMBL524158  | CHEMBL1086220 |
| CHEMBL582852  | CHEMBL555454  | CHEMBL444522  | CHEMBL6789    |
| CHEMBL592631  | CHEMBL569917  | CHEMBL1170659 | CHEMBL439520  |
| CHEMBL500790  | CHEMBL163819  | CHEMBL1207940 | CHEMBL611662  |
| CHEMBL1163275 | CHEMBL572743  | CHEMBL162495  | CHEMBL501877  |
| CHEMBL1094672 | CHEMBL155656  | CHEMBL612001  | CHEMBL3309508 |
| CHEMBL6586    | CHEMBL260906  | CHEMBL534280  | CHEMBL1076290 |
| CHEMBL2094221 | CHEMBL1076577 | CHEMBL1076712 | CHEMBL155537  |
| CHEMBL6347    | CHEMBL593625  | CHEMBL1213701 | CHEMBL499809  |
| CHEMBL4116092 | CHEMBL262267  | CHEMBL503454  | CHEMBL1213094 |
| CHEMBL6211    | CHEMBL1159612 | CHEMBL1200656 | CHEMBL507903  |
| CHEMBL572203  | CHEMBL526533  | CHEMBL1084482 | CHEMBL505139  |

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| CHEMBL506407  | CHEMBL1163239 | CHEMBL499568  | CHEMBL1084615 |
| CHEMBL1215831 | CHEMBL1076999 | CHEMBL507307  | CHEMBL499529  |
| CHEMBL383917  | CHEMBL504363  | CHEMBL199468  | CHEMBL609878  |
| CHEMBL504357  | CHEMBL1083541 | CHEMBL1090695 | CHEMBL403325  |
| CHEMBL3309292 | CHEMBL501943  | CHEMBL1078223 | CHEMBL553645  |
| CHEMBL160738  | CHEMBL1205150 | CHEMBL1208484 | CHEMBL6312    |
| CHEMBL500738  | CHEMBL1195488 | CHEMBL575375  | CHEMBL555367  |
| CHEMBL526313  | CHEMBL4116000 | CHEMBL505936  | CHEMBL1205733 |
| CHEMBL589736  | CHEMBL1090660 | CHEMBL503400  | CHEMBL1187588 |
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| CHEMBL6624    | CHEMBL1097917 | CHEMBL1088344 | CHEMBL500734  |
| CHEMBL1083268 | CHEMBL1076128 | CHEMBL1222611 | CHEMBL1170054 |
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| CHEMBL502312  | CHEMBL564427  | CHEMBL406648  | CHEMBL4116131 |
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| CHEMBL505038  | CHEMBL1159458 | CHEMBL462274  | CHEMBL438024  |
| CHEMBL500105  | CHEMBL593912  | CHEMBL1076217 | CHEMBL573461  |
| CHEMBL1222581 | CHEMBL503357  | CHEMBL157397  | CHEMBL154192  |
| CHEMBL157042  | CHEMBL154463  | CHEMBL439138  | CHEMBL584773  |
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| CHEMBL265900  | CHEMBL1094354 | CHEMBL503535  | CHEMBL502354  |
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| CHEMBL532261  | CHEMBL574347  | CHEMBL525765  | CHEMBL154228  |
| CHEMBL504164  | CHEMBL2070335 | CHEMBL504254  | CHEMBL1160429 |
| CHEMBL595990  | CHEMBL501682  | CHEMBL498849  | CHEMBL552766  |
| CHEMBL501801  | CHEMBL154818  | CHEMBL499523  | CHEMBL1076341 |
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| CHEMBL1201356 | CHEMBL571980  | CHEMBL156363  | CHEMBL590751  |
| CHEMBL1076792 | CHEMBL502307  | CHEMBL504150  | CHEMBL1185211 |

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| CHEMBL1163213 | CHEMBL503539  | CHEMBL1215838 | CHEMBL1078396 |
| CHEMBL155780  | CHEMBL1099322 | CHEMBL4116109 | CHEMBL6224    |
| CHEMBL4116160 | CHEMBL439400  | CHEMBL503391  | CHEMBL538460  |
| CHEMBL503508  | CHEMBL6414    | CHEMBL503986  | CHEMBL583299  |
| CHEMBL1076268 | CHEMBL6376    | CHEMBL6316    | CHEMBL501770  |
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| CHEMBL593674  | CHEMBL1090651 | CHEMBL570399  | CHEMBL509250  |
| CHEMBL501544  | CHEMBL573234  | CHEMBL501136  | CHEMBL509348  |
| CHEMBL570152  | CHEMBL588522  | CHEMBL503991  | CHEMBL601080  |
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| CHEMBL3309763 | CHEMBL590000  | CHEMBL502210  | CHEMBL4116119 |
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| CHEMBL569907  | CHEMBL554546  | CHEMBL4116114 | CHEMBL1196830 |
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| CHEMBL4116143 | CHEMBL1162169 | CHEMBL6232    | CHEMBL610892  |
| CHEMBL265282  | CHEMBL583726  | CHEMBL1079305 | CHEMBL1210347 |
| CHEMBL1094634 | CHEMBL501691  | CHEMBL564205  | CHEMBL159668  |
| CHEMBL4116117 | CHEMBL1162317 | CHEMBL547407  | CHEMBL1164909 |
| CHEMBL508600  | CHEMBL502441  | CHEMBL1620719 | CHEMBL262819  |
| CHEMBL583319  | CHEMBL6417    | CHEMBL585377  | CHEMBL559342  |
| CHEMBL504077  | CHEMBL503469  | CHEMBL1165423 | CHEMBL6282    |
| CHEMBL1207533 | CHEMBL1186606 | CHEMBL607833  | CHEMBL1187952 |

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| CHEMBL1172056 | CHEMBL1215684 | CHEMBL503449  | CHEMBL155896  |
| CHEMBL608190  | CHEMBL159389  | CHEMBL1075896 | CHEMBL576493  |
| CHEMBL385868  | CHEMBL4116104 | CHEMBL503616  | CHEMBL167990  |
| CHEMBL3309538 | CHEMBL1224854 | CHEMBL504351  | CHEMBL1165530 |
| CHEMBL558352  | CHEMBL505127  | CHEMBL583947  | CHEMBL443598  |
| CHEMBL1224734 | CHEMBL415423  | CHEMBL156224  | CHEMBL509252  |
| CHEMBL6320    | CHEMBL501070  | CHEMBL1207630 | CHEMBL266873  |
| CHEMBL1209733 | CHEMBL538686  | CHEMBL503902  | CHEMBL500202  |
| CHEMBL502626  | CHEMBL502983  | CHEMBL525672  | CHEMBL1223980 |
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| CHEMBL499101  | CHEMBL264899  | CHEMBL1199724 | CHEMBL534251  |
| CHEMBL1099299 | CHEMBL6306    | CHEMBL1077336 | CHEMBL583071  |
| CHEMBL569918  | CHEMBL610765  | CHEMBL1092024 | CHEMBL154414  |
| CHEMBL156263  | CHEMBL1093316 | CHEMBL1164952 | CHEMBL407362  |
| CHEMBL570602  | CHEMBL1160256 | CHEMBL500758  | CHEMBL405416  |
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