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# c4_pa_data_vizualization.m

```matlab
%{
Description:
  This script explores the PA data in pa_data.mat and plots the AM-AM
 and
  AM-PM characteristics.

Input:
  - pa_data.mat
%}
clc; clear; close all;
tic
```

# Functions folder

```matlab
current_folder = fileparts(mfilename('fullpath'));
root_folder = fileparts(current_folder);
functions_folder = fullfile(root_folder, 'f0_functions');
addpath(functions_folder);
```

# Import data

```matlab
pa_data_file = fullfile(current_folder, 'pa_data.mat');
load(pa_data_file);
```

# Plot

```matlab
plot_amam(signal_1_in, signal_1_out);
plot_ampm(signal_1_in, signal_1_out);

plot_amam(signal_2_in, signal_2_out);
plot_ampm(signal_2_in, signal_2_out);

toc

Elapsed time is 0.319724 seconds.
```
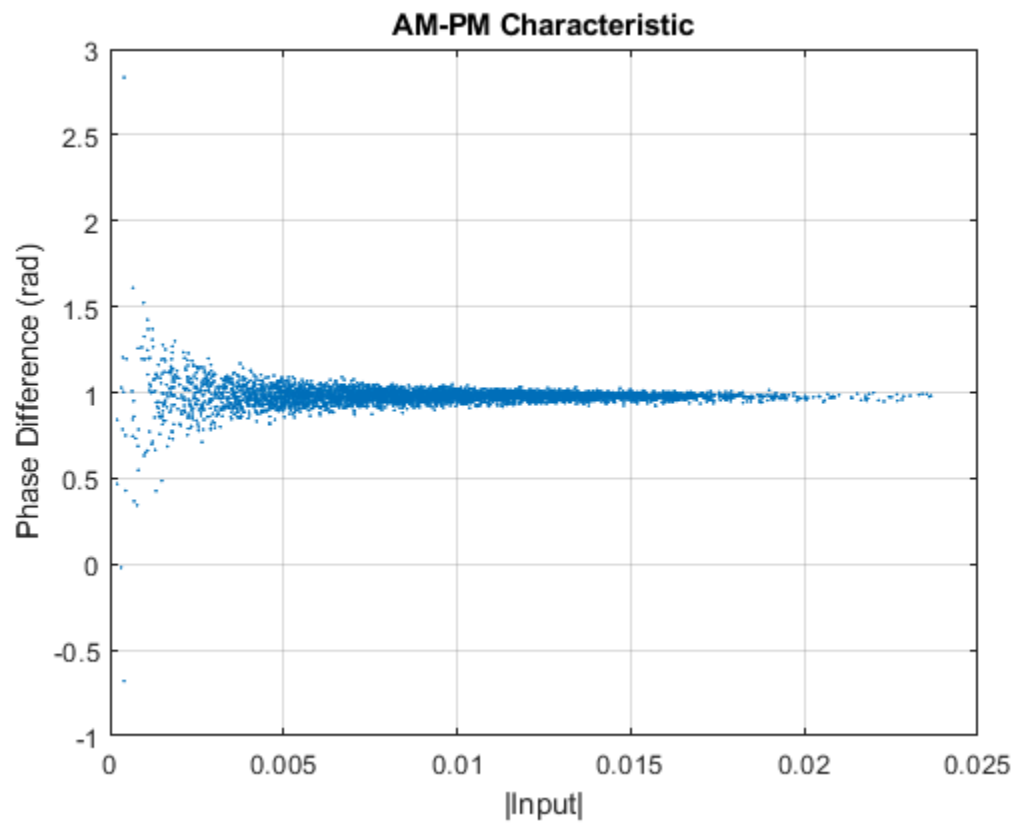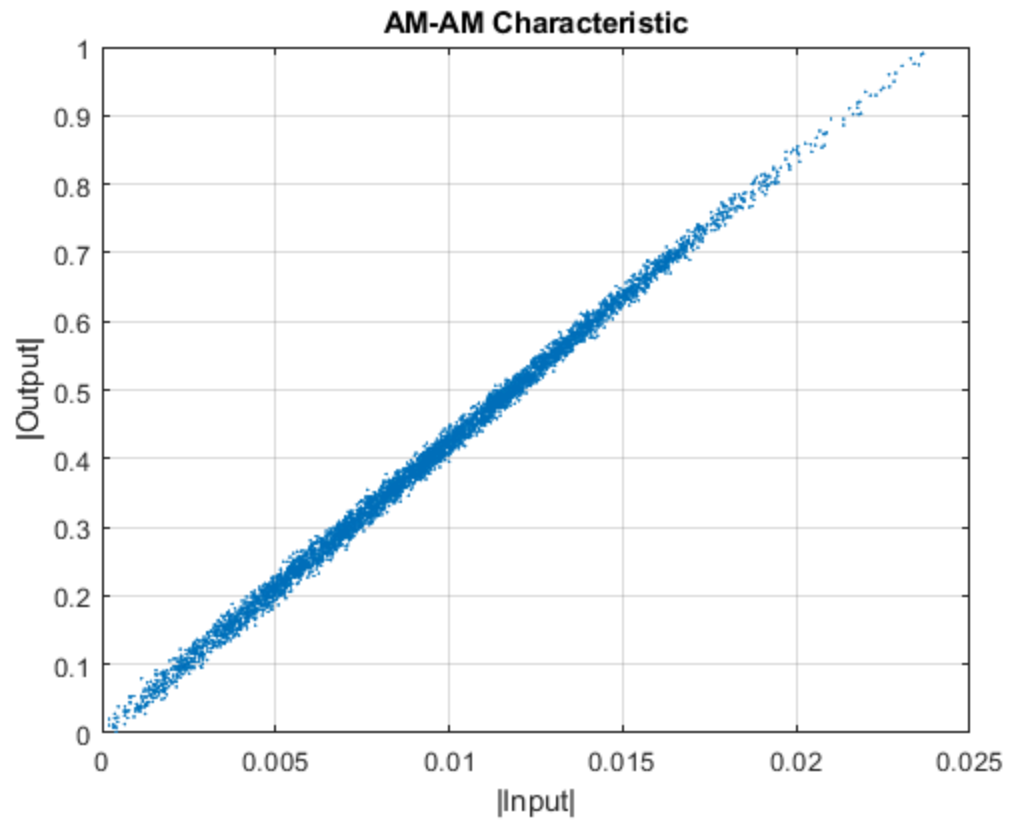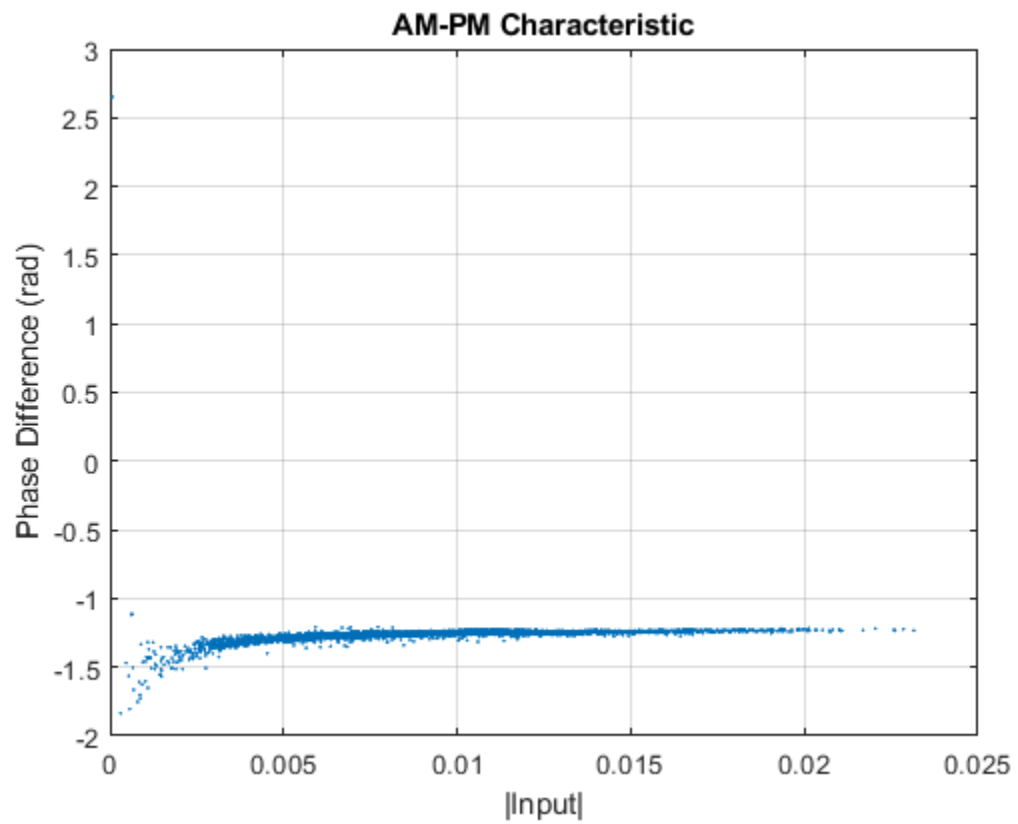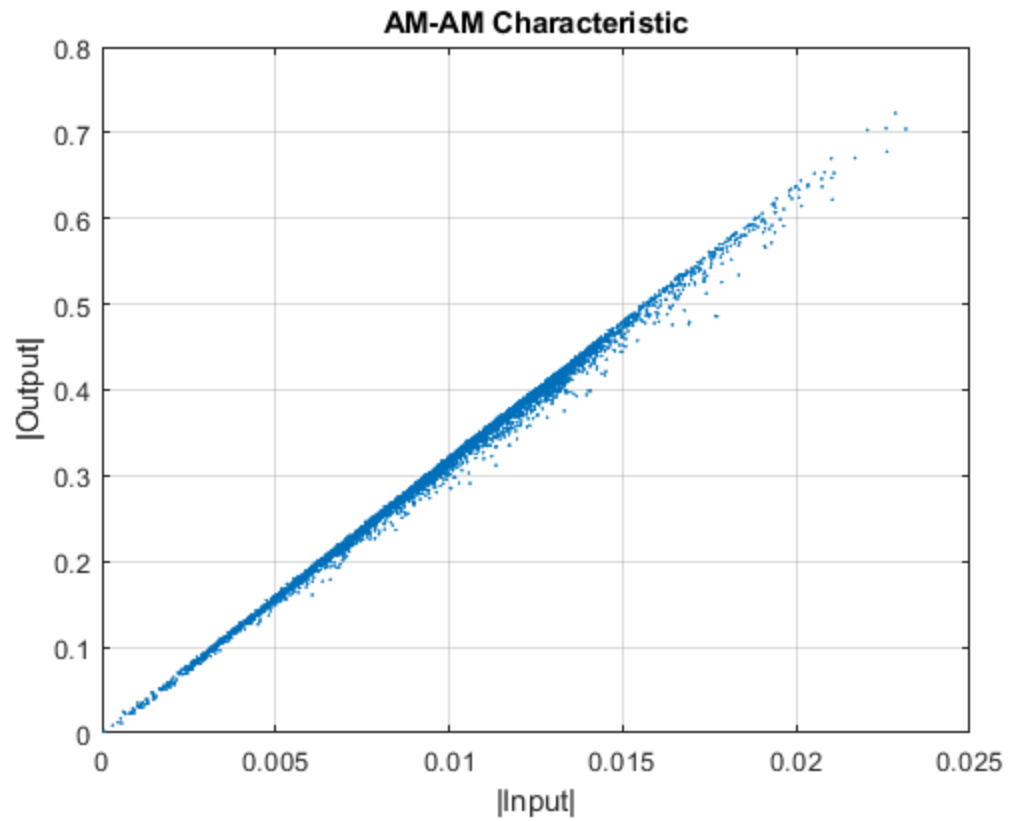
**AM-AM Characteristic**



**AM-PM Characteristic**

**AM-AM Characteristic**



**AM-PM Characteristic**

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