

# TIC 25155310 DATA VALIDATION REPORT

This document is created by the WATSON report generator (<https://github.com/PlanetHunters/watson>) and focuses on the target star TIC 25155310.

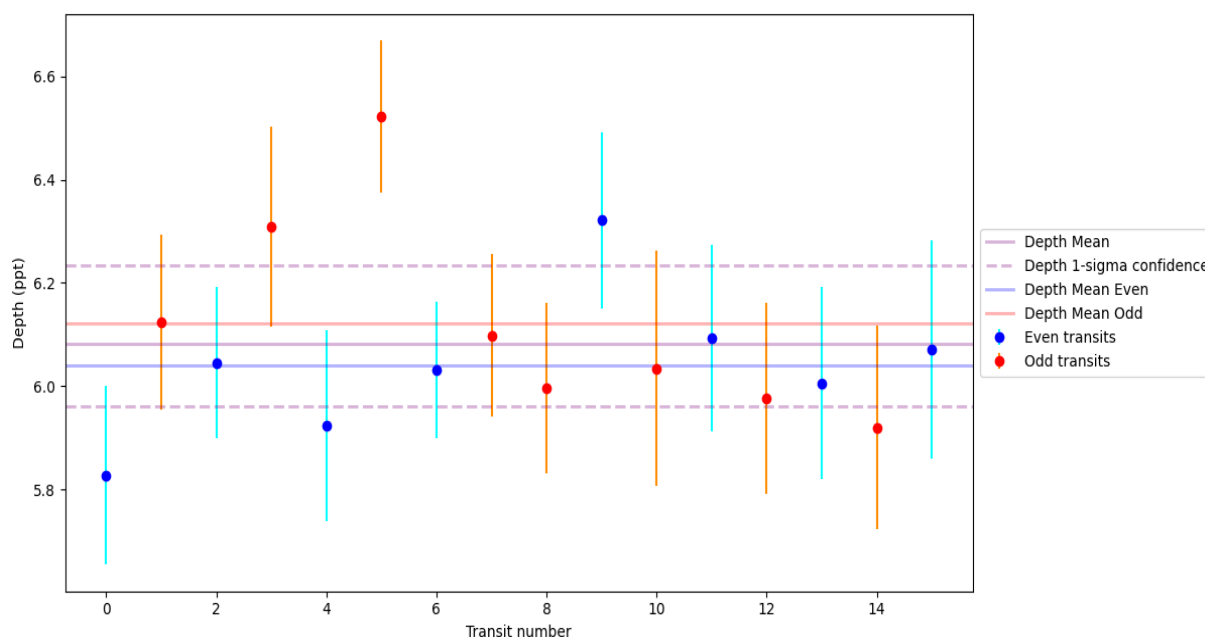
RA (deg)	Dec (deg)	V (mag)	J (mag)	H (mag)	K (mag)
4:13:29.75	-69:13:36.56	-	-	-	-

**Table 1:** The proposed target parameters.

T0 (d)	Period (d)	Duration (h)	Depth (ppt)
1327.51	3.2899	3.32	6.082

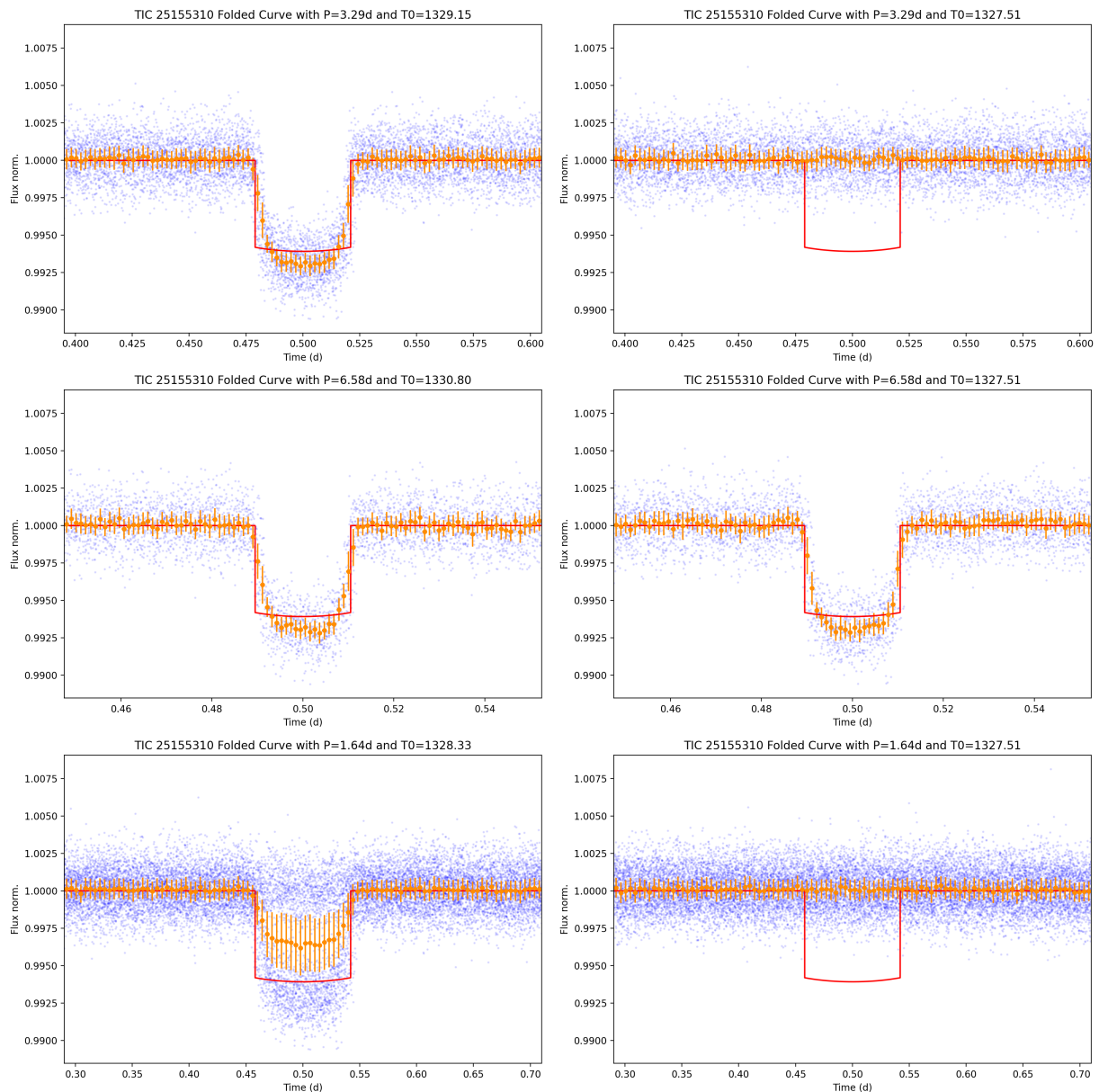
**Table 2:** The candidate parameters.

TIC 25155310 Transits depth analysis T0=1327.51 P=3.29d



**Figure 1:** The candidate single-transits depths plot.

## WATSON Data Validation Report: TIC 25155310

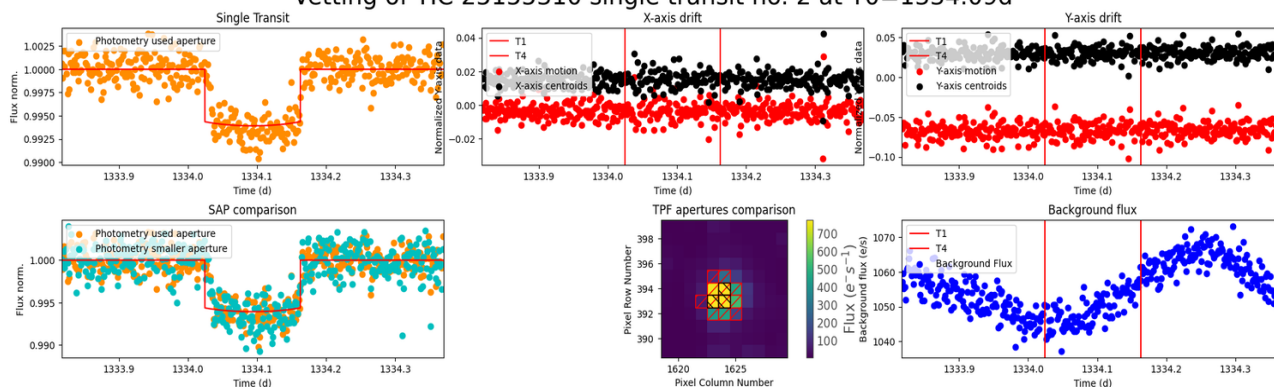


**Figure 2:** The candidate folded curve at  $T_0$  and its opposite for the selected period and its first harmonic and subharmonic.

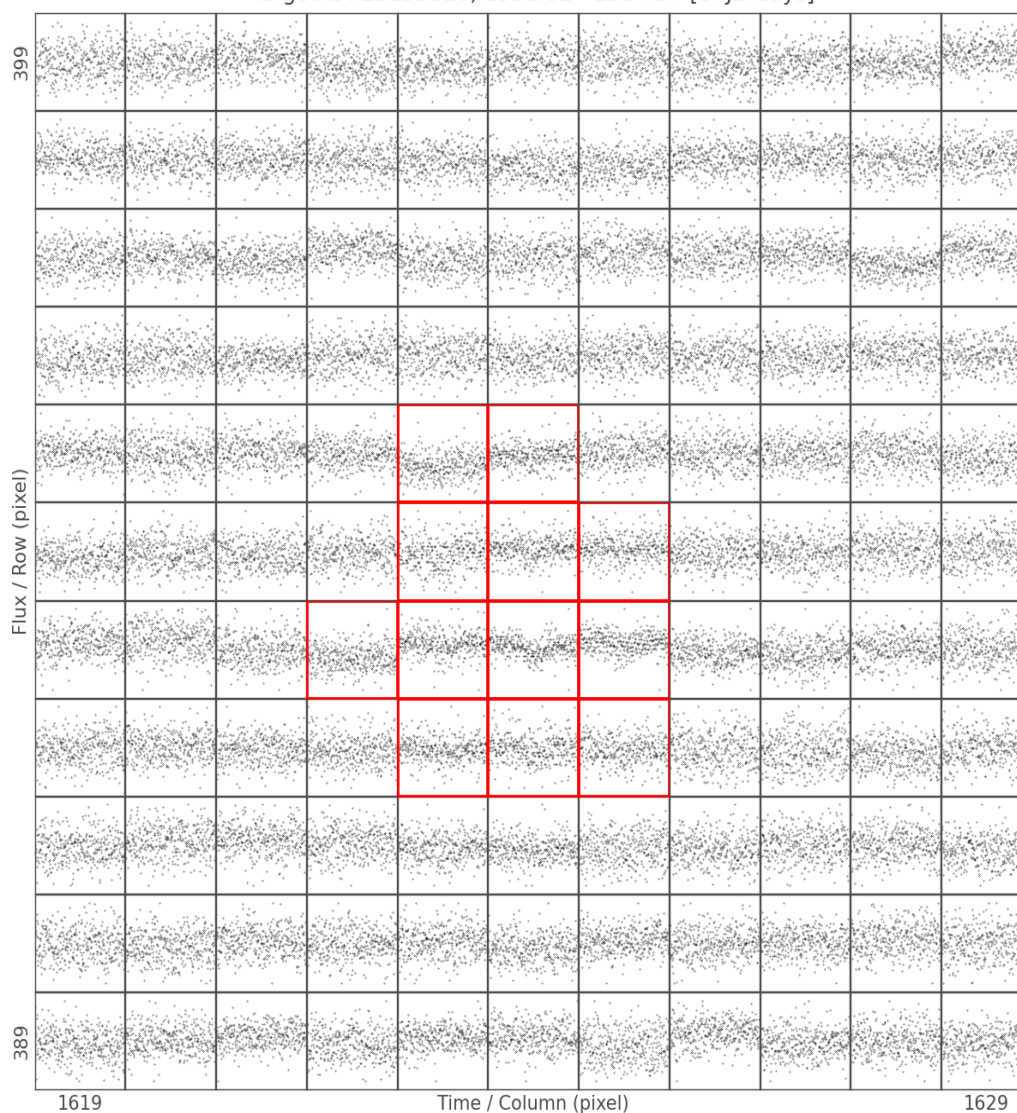
The next pages will contain each of the single-transits vetting sheets with the next information:

1. **TOP-LEFT:** Plot with single transit photometry found in the analyzed curve (with momentum dumps, if any).
2. **TOP-CENTER:** Plot with X-axis data drift (X-axis motion vs X-axis centroid offset) around the transit times.
3. **TOP-RIGHT:** Plot with Y-axis data drift (Y-axis motion vs Y-axis centroid offset) around the transit times.
4. **CENTER-LEFT:** Plot with SAP for used aperture vs SAP for smaller aperture around the transit times.
5. **CENTER-CENTER:** Plot with smaller aperture over used aperture on the target.
6. **CENTER-RIGHT:** Plot with single transit photometry found in the analyzed curve around the transit times.
7. **BOTTOM:** Plot TPF flux measurements for each pixel around the transit times.

## Vetting of TIC 25155310 single transit no. 2 at T0=1334.09d

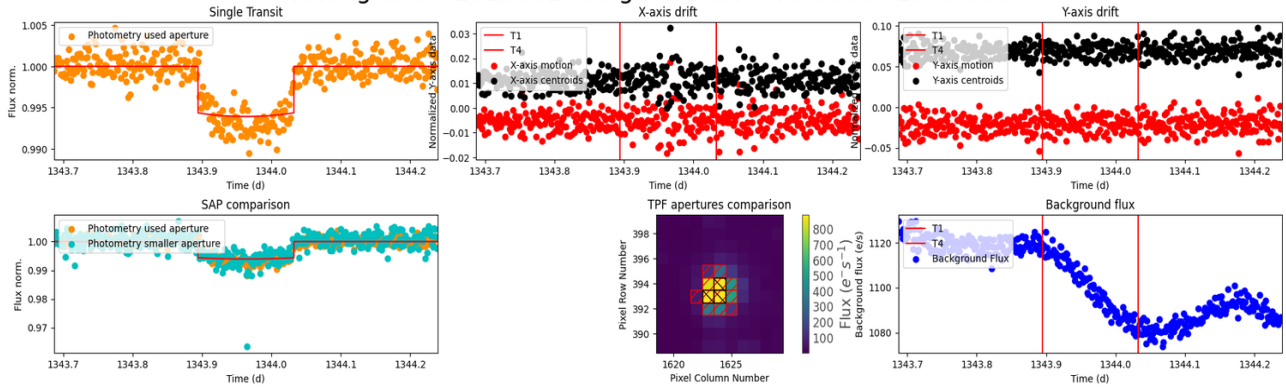


Target ID: 25155310, 1333.82 - 1334.37 [BTJD days]

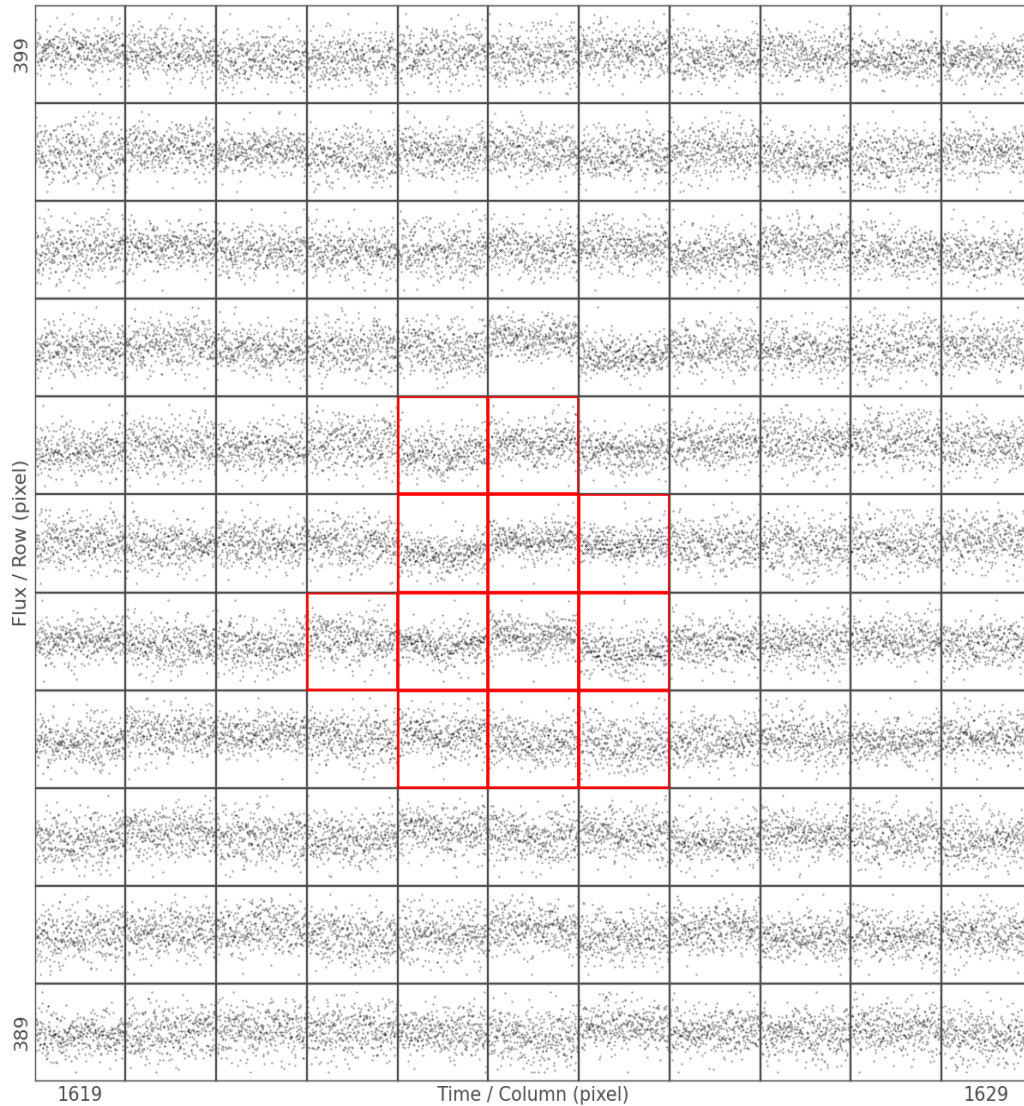


**Figure 3:** The single transit no. 2 vetting plots

Vetting of TIC 25155310 single transit no. 5 at T0=1343.96d



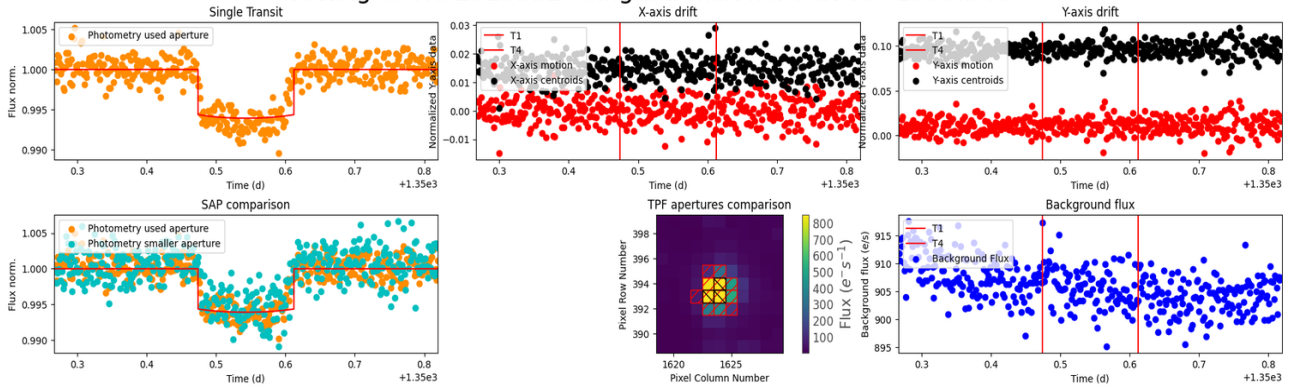
Target ID: 25155310, 1343.69 - 1344.24 [BTJD days]



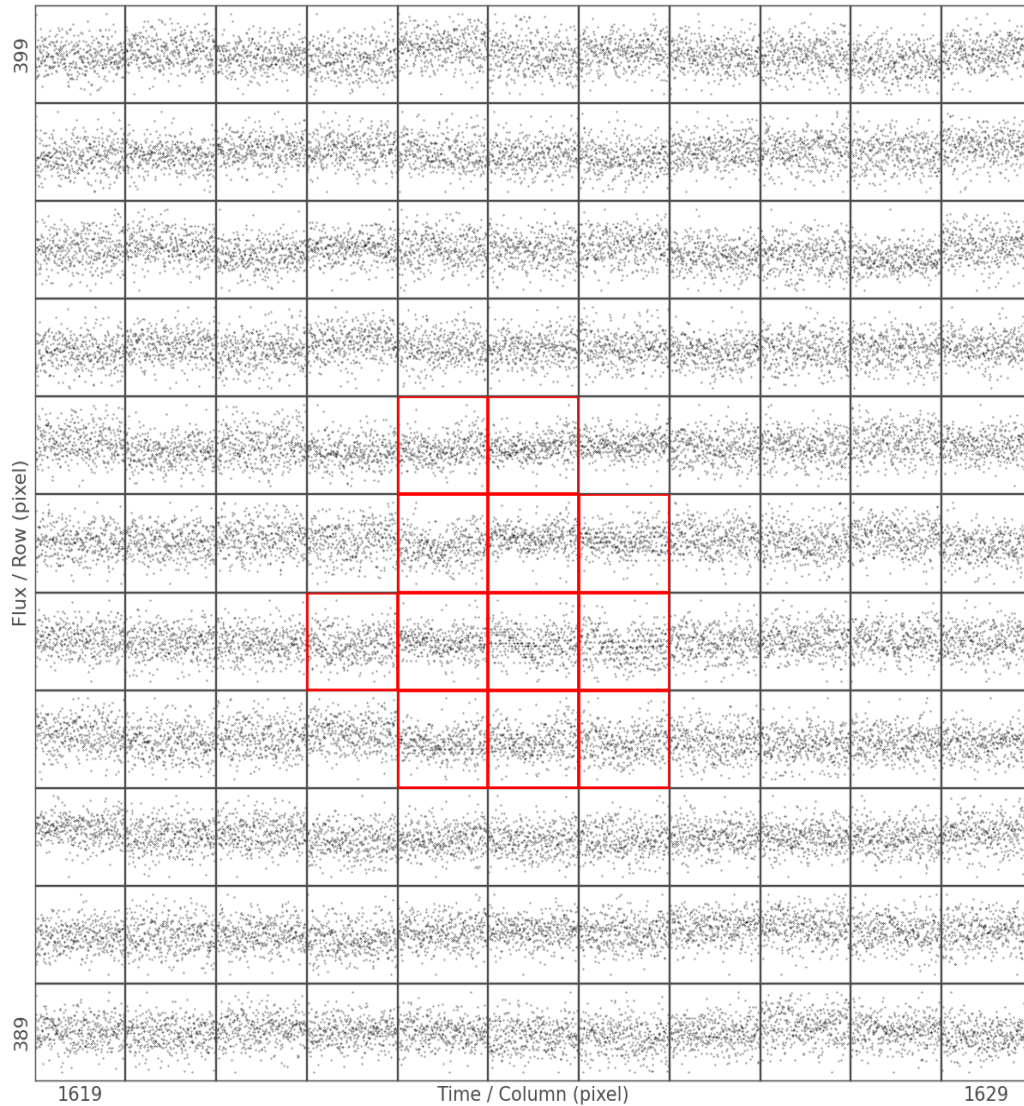
**Figure 4:** The single transit no. 5 vetting plots



Vetting of TIC 25155310 single transit no. 7 at T0=1350.54d



Target ID: 25155310, 1350.27 - 1350.82 [BTJD days]



**Figure 5:** The single transit no. 7 vetting plots