

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21795 - L2 Version 1
Chandra X-Ray Center

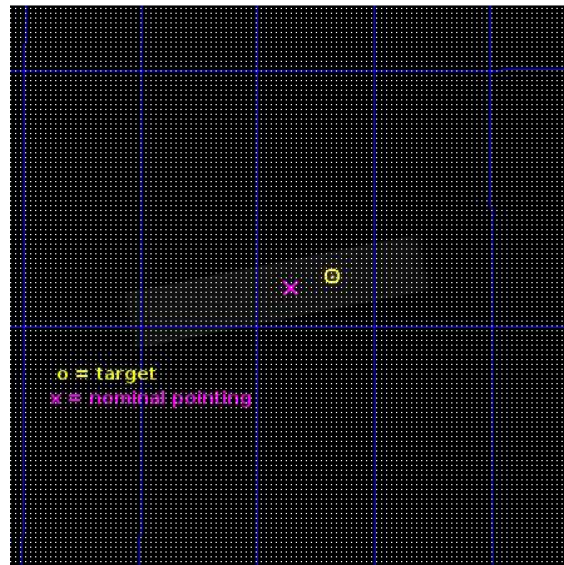
L2 Processing Date : Apr 4 2019

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1 Front

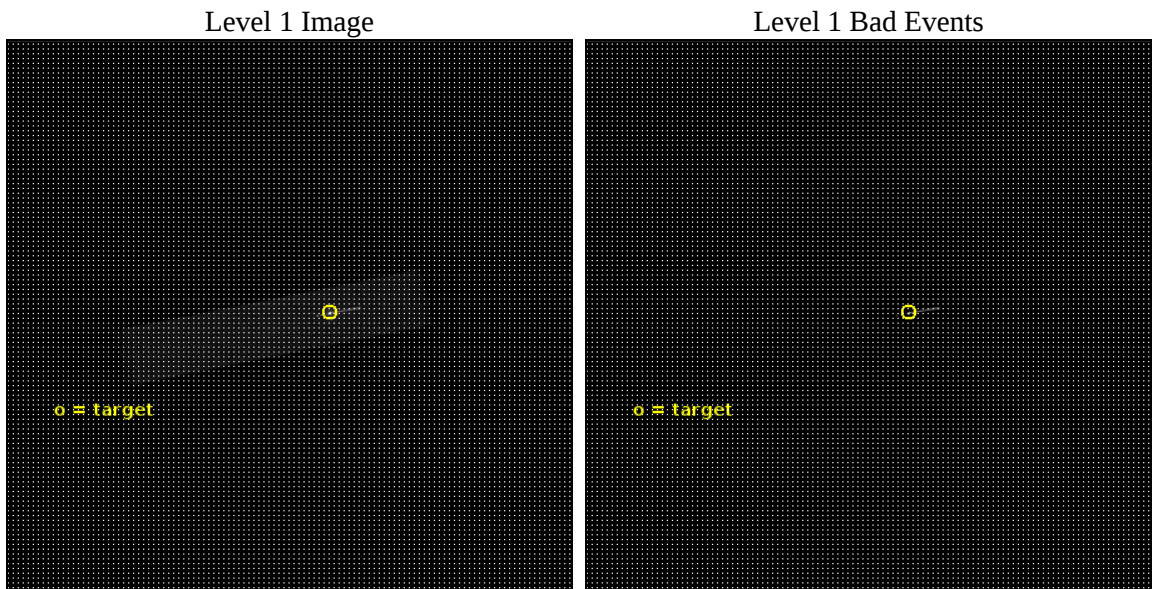
seq_num	291481	Sequence number
obs_id	21795	Observation id
title	AO-20 HRC-S Gain Calibration Observations of HZ43	Proposal title
observer	CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.090076	Observer's specified target RA [deg]
dec_targ	29.098119	Observer's specified target Dec [deg]
ra_nom	199.17686691635	Nominal RA [deg]
dec_nom	29.076938876518	Nominal Dec [deg]
roll_nom	168.1196116073	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2805.6814185381	[s]
livetime	2320.7962750234	Ontime multiplied by DTCOR
l2events	425872	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	2730.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	2805.6814185381	[s]
caldsver	4.8.2	 	l1events	533831	Number of level 1 events
date	2019-04-04T11:35:38	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

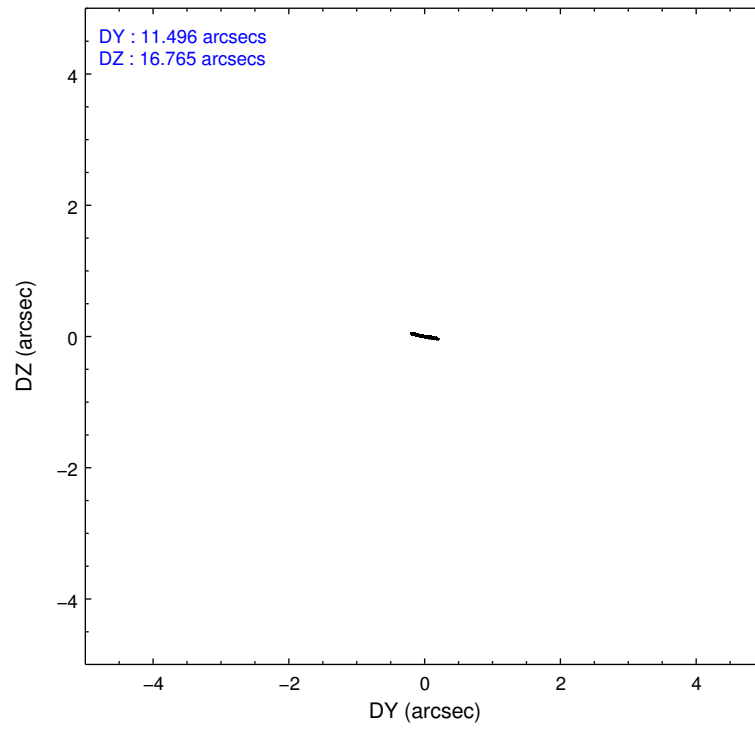
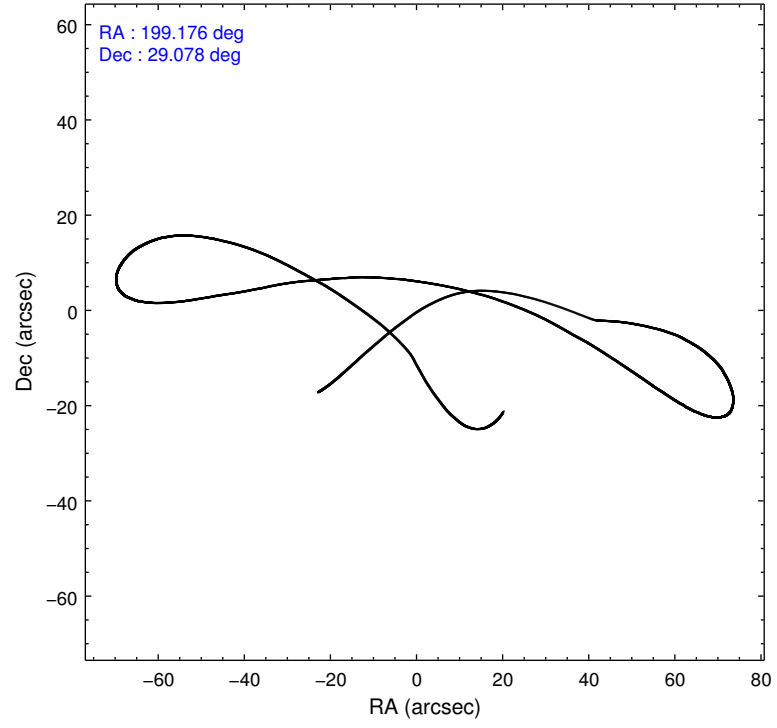
Level 1 Events

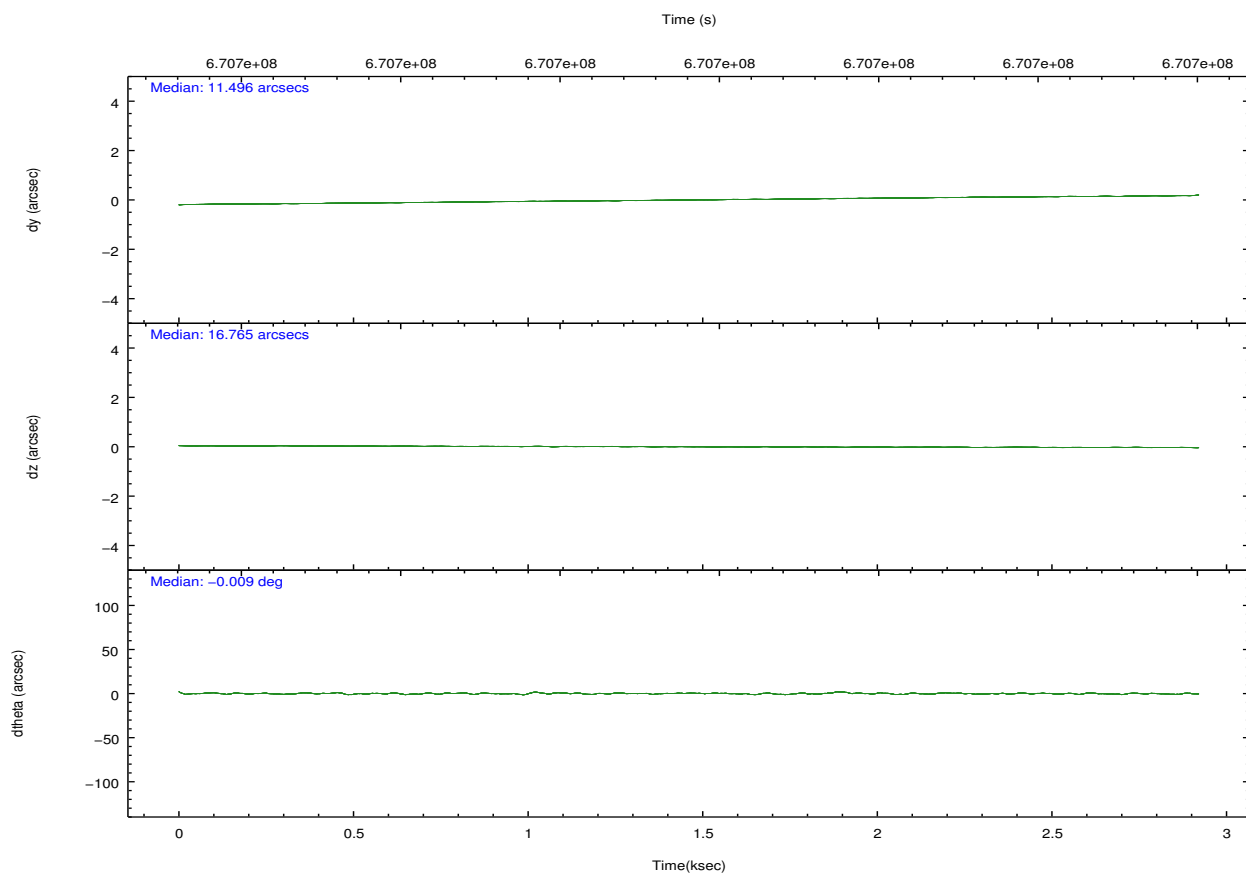
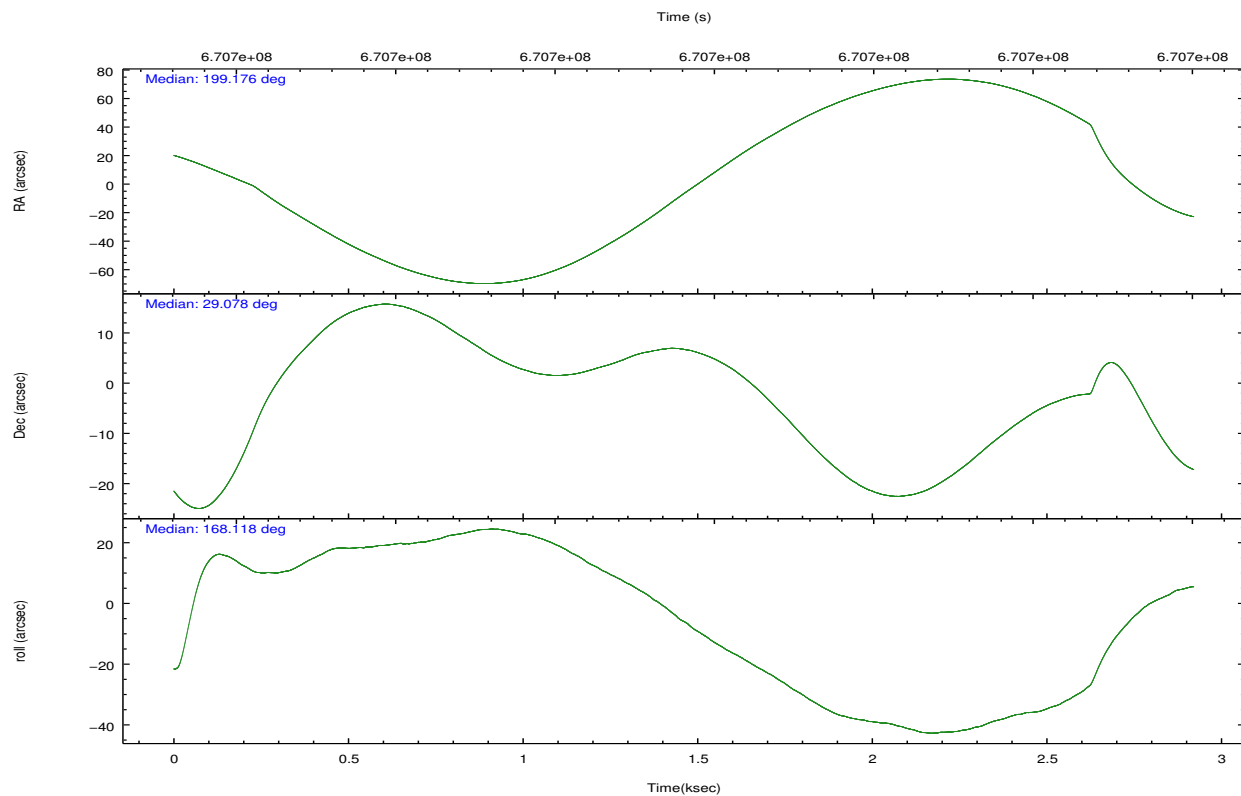
	segment 1	segment 2	segment 3
level 1 events	1097	531753	981
rejected events	1097	75218	981
rejected %	100%	14%	100%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	199.208063	199.1768669163459			
[deg] Pointing Dec	29.087515	29.07693887651821			
[deg] Pointing Roll	168.037110	168.1196116073024			
[mm] SIM focus pos	-1.533336	-1.526339935833849			
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	670698612.184000	670698236.5533299			
Observation start date	2019-04-03T17:09:03	2019-04-03T17:03:56			
[s] Observation end time (MET)	670701342.184000	670701476.5785201			
Observation end date	2019-04-03T17:54:33	2019-04-03T17:57:56			

2.3 Aspect



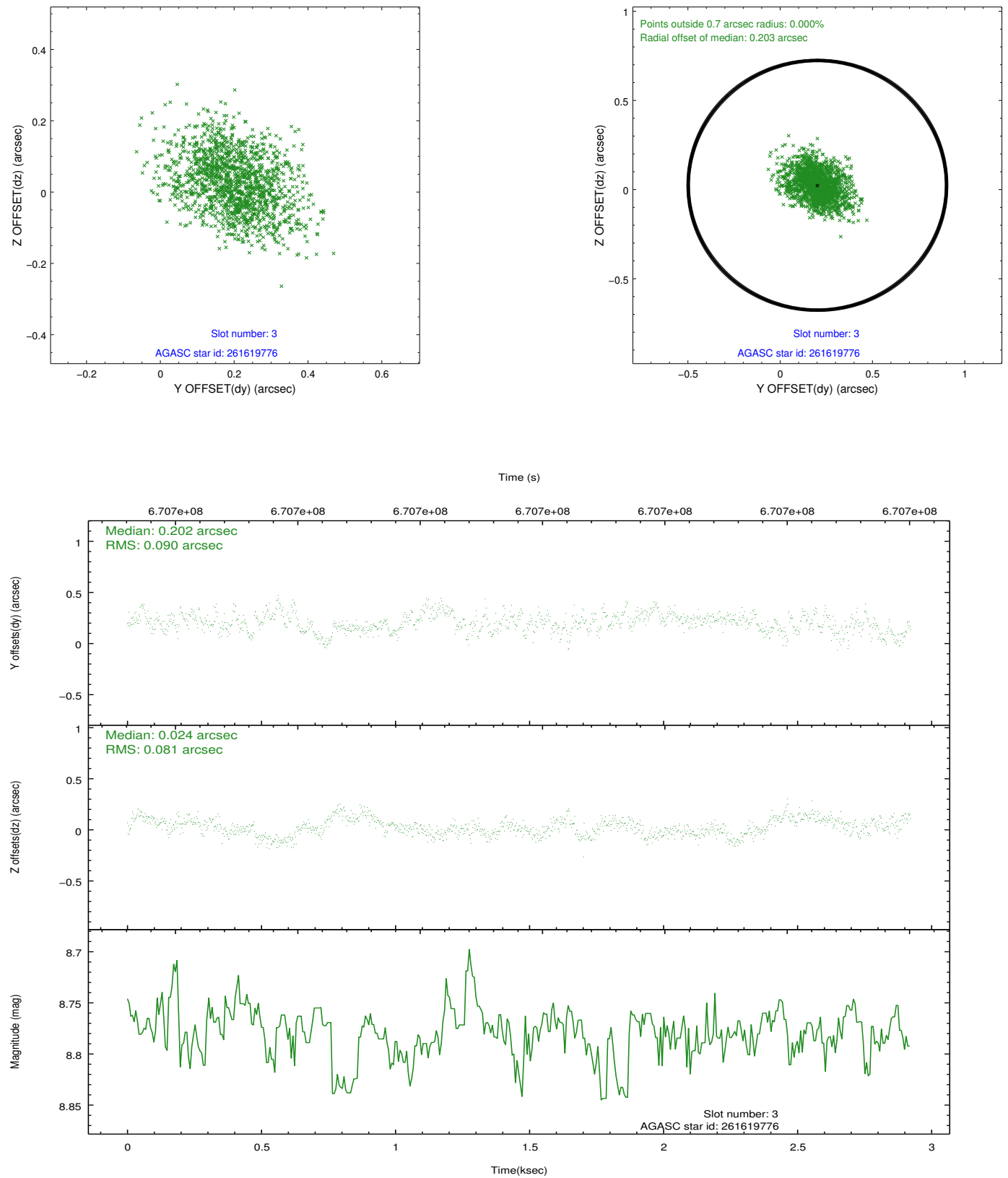


Slot Statistics

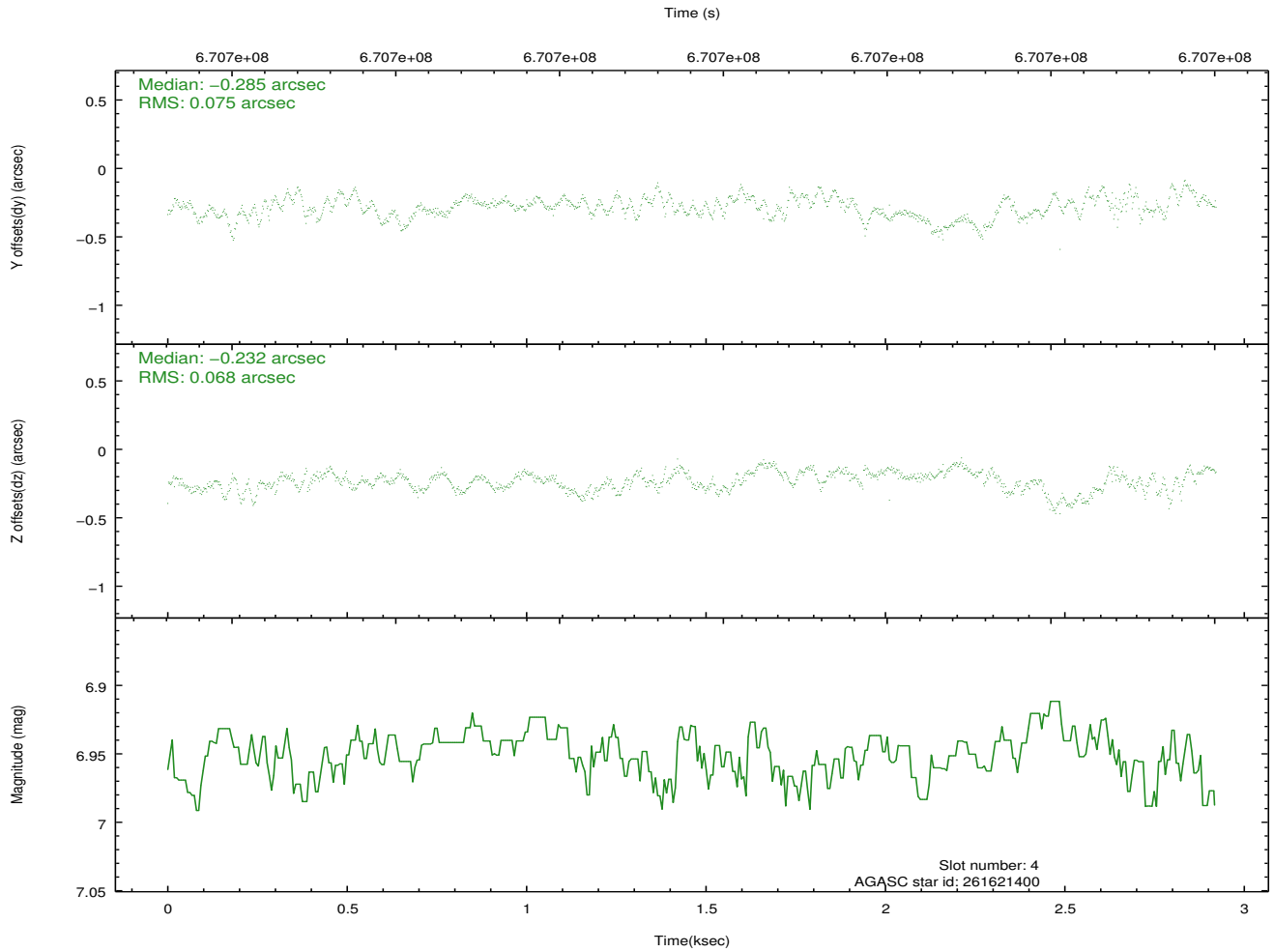
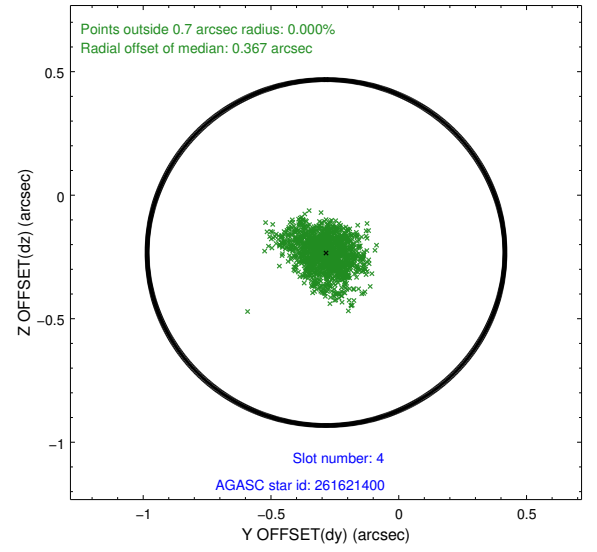
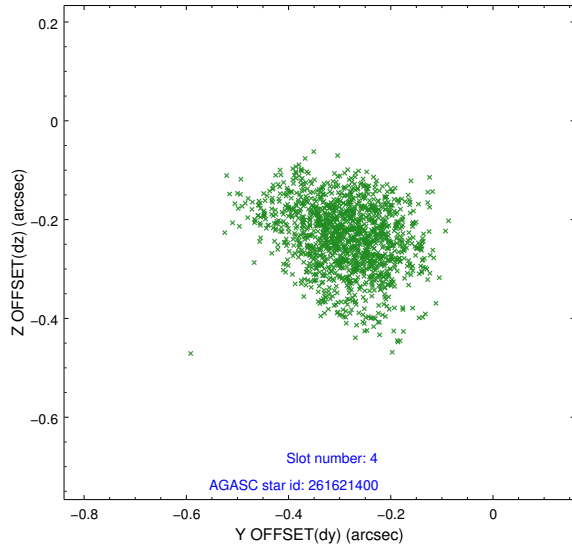
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.09	712	1.000	-0.106	-0.166	0.006	0.010	0.000000	0.000000	-1165.91	-465
1	FID		HRC-S-2	7.07	713	1.000	0.503	-0.158	0.006	0.011	0.000000	0.000000	1232.72	-458
2	FID		HRC-S-3	7.07	713	1.000	-0.007	0.022	0.008	0.013	0.000000	0.000000	-1166.91	563
3	GUIDE	used	261619776	8.78	1425	1.000	0.202	0.024	0.128	0.208	198.654383	29.401174	1932.14	-748
4	GUIDE	used	261621400	6.95	1426	1.000	-0.285	-0.232	0.108	0.176	198.901600	28.741982	689.72	1414
5	GUIDE	used	261623624	9.07	1426	1.000	0.009	0.069	0.145	0.274	199.611555	28.454113	-1721.05	1964
6	GUIDE	used	261624456	7.29	1426	1.000	-0.058	0.192	0.102	0.181	199.758056	28.567828	-2088.42	1464
7	GUIDE	used	261629720	8.09	1425	1.000	0.141	-0.041	0.097	0.174	199.236176	29.044452	-120.36	133

2.4 Star Slots

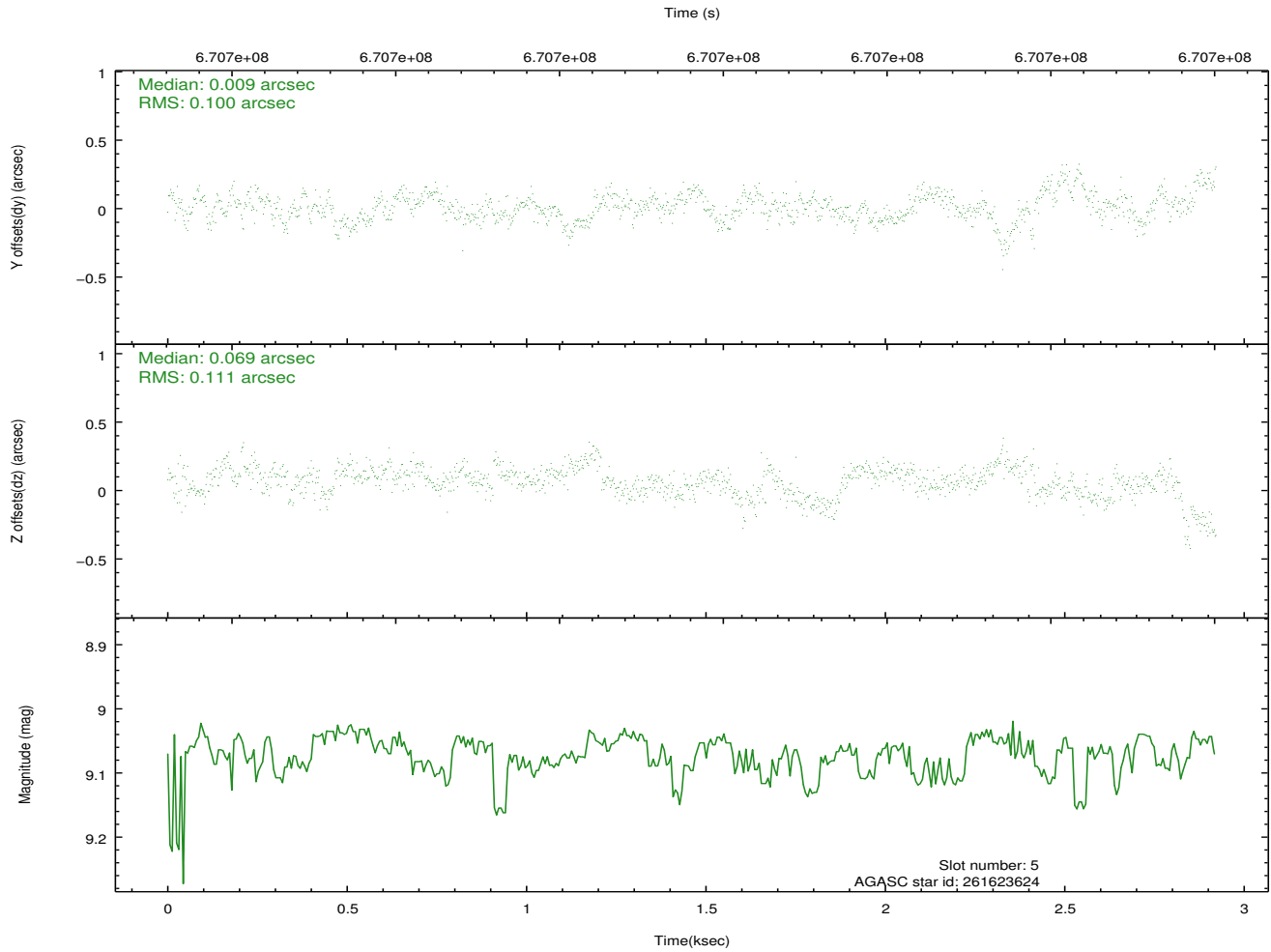
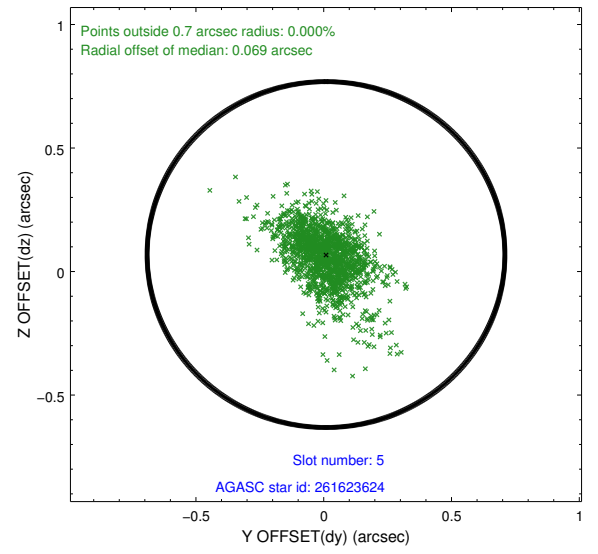
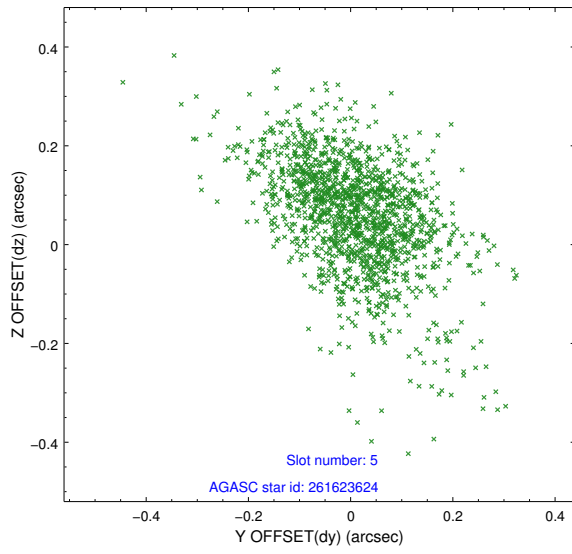
2.4.1 Slot 3



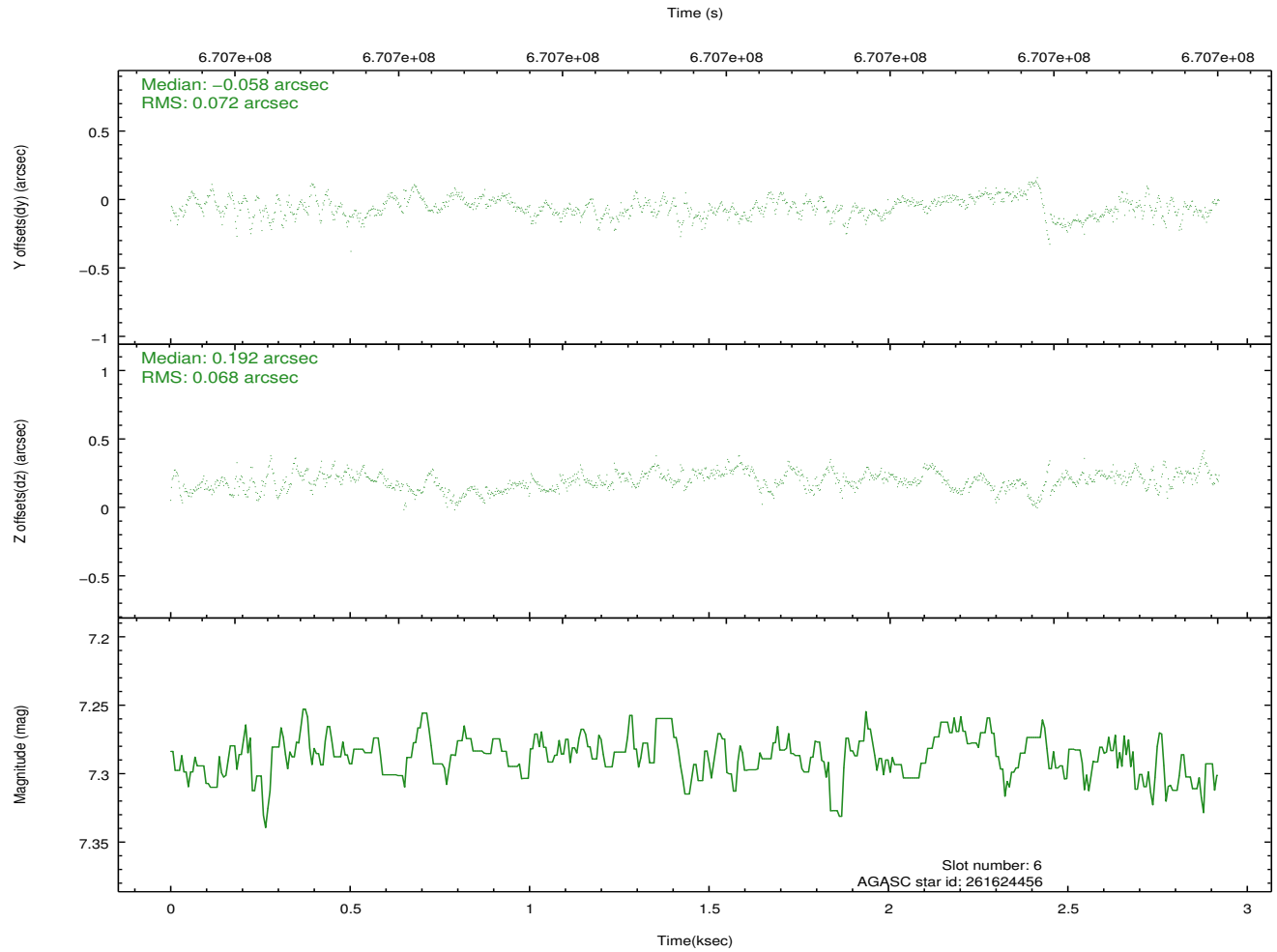
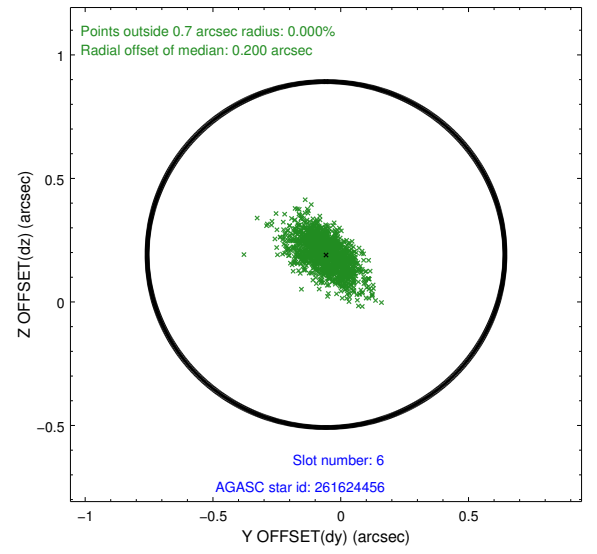
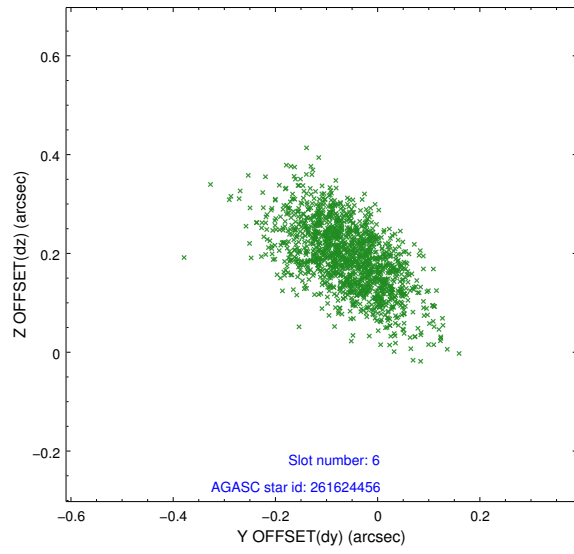
2.4.2 Slot 4



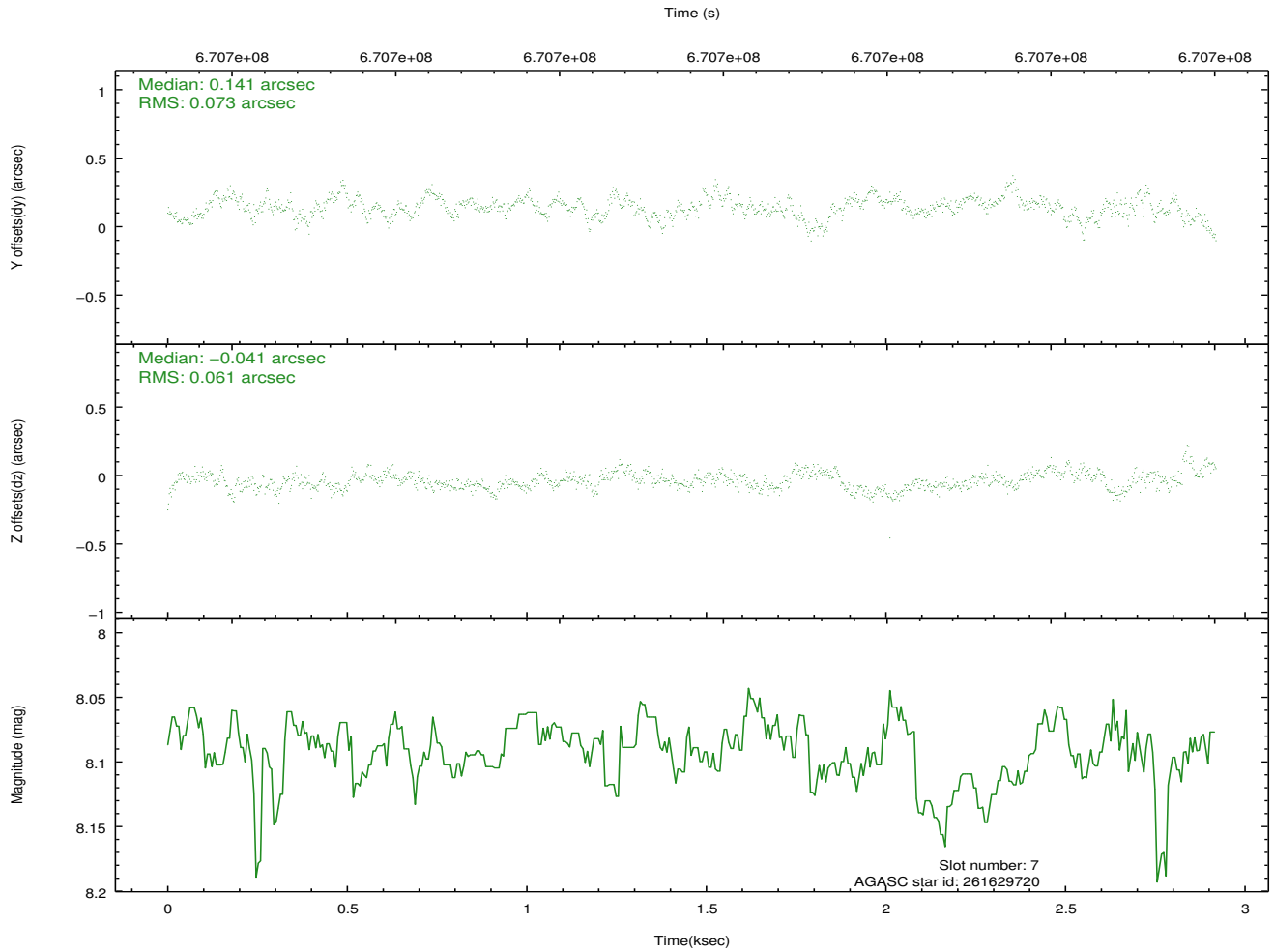
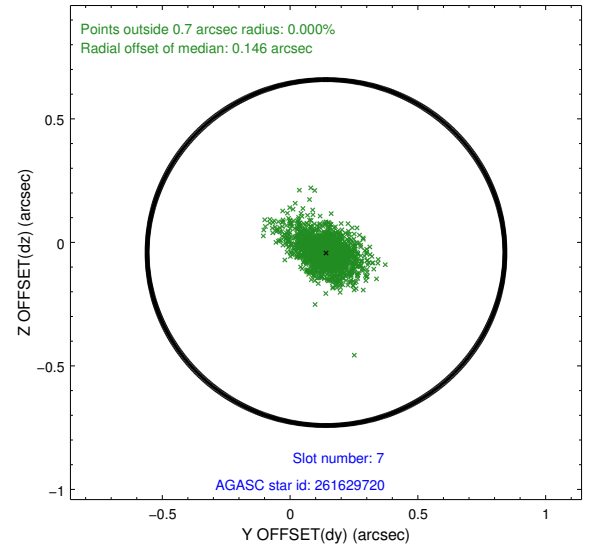
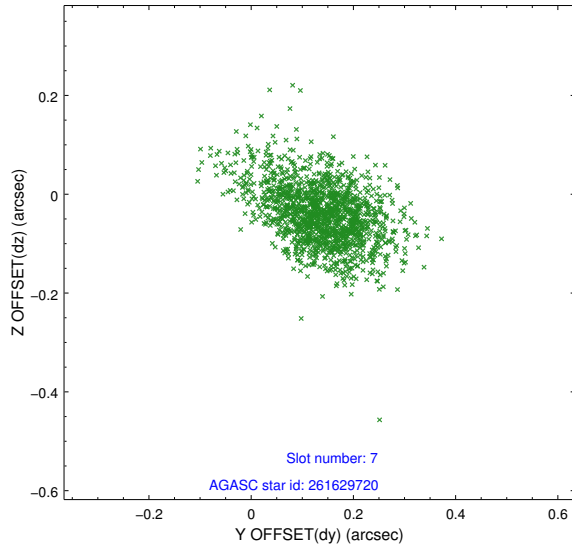
2.4.3 Slot 5



2.4.4 Slot 6

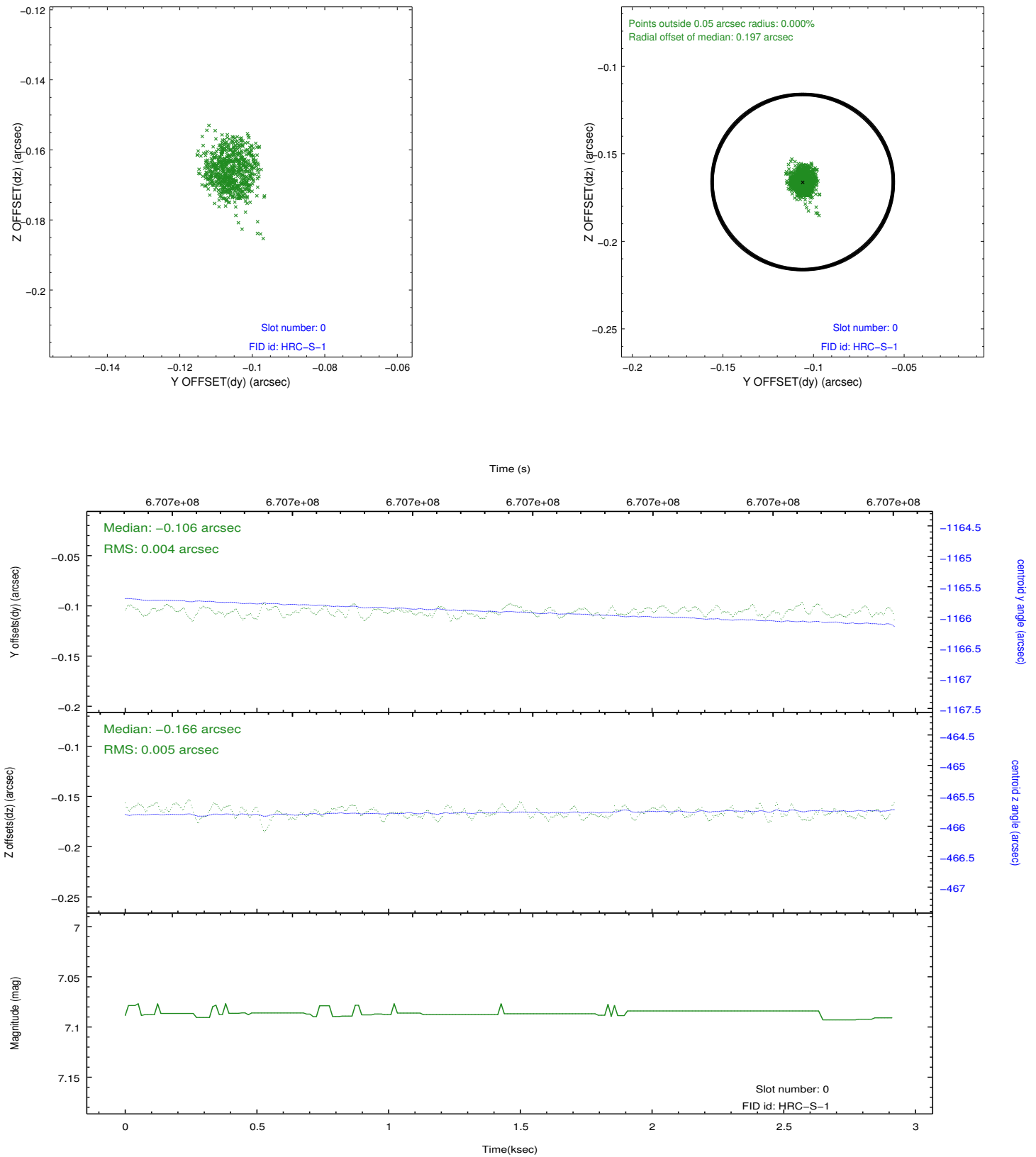


2.4.5 Slot 7

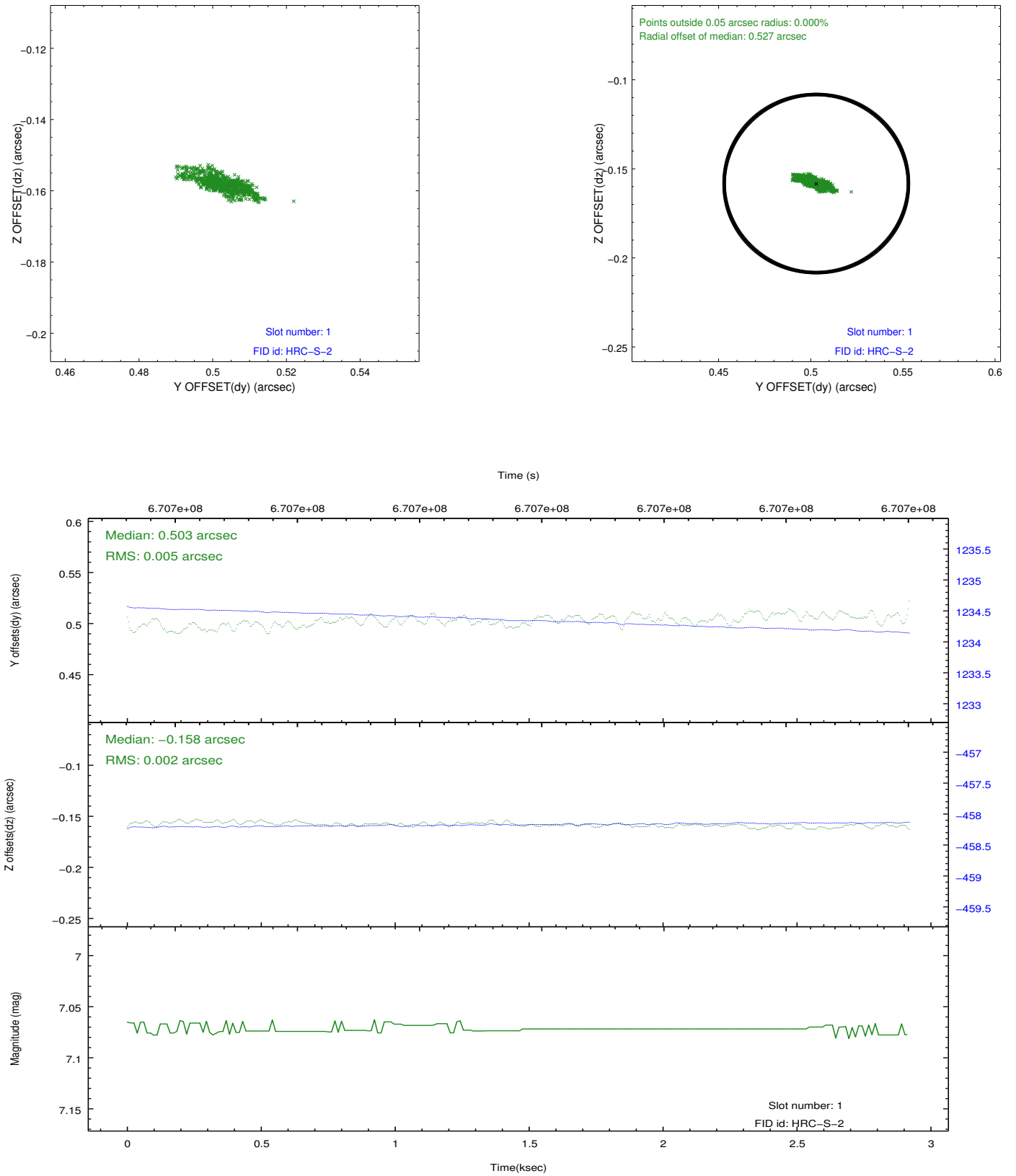


2.5 FID Slots

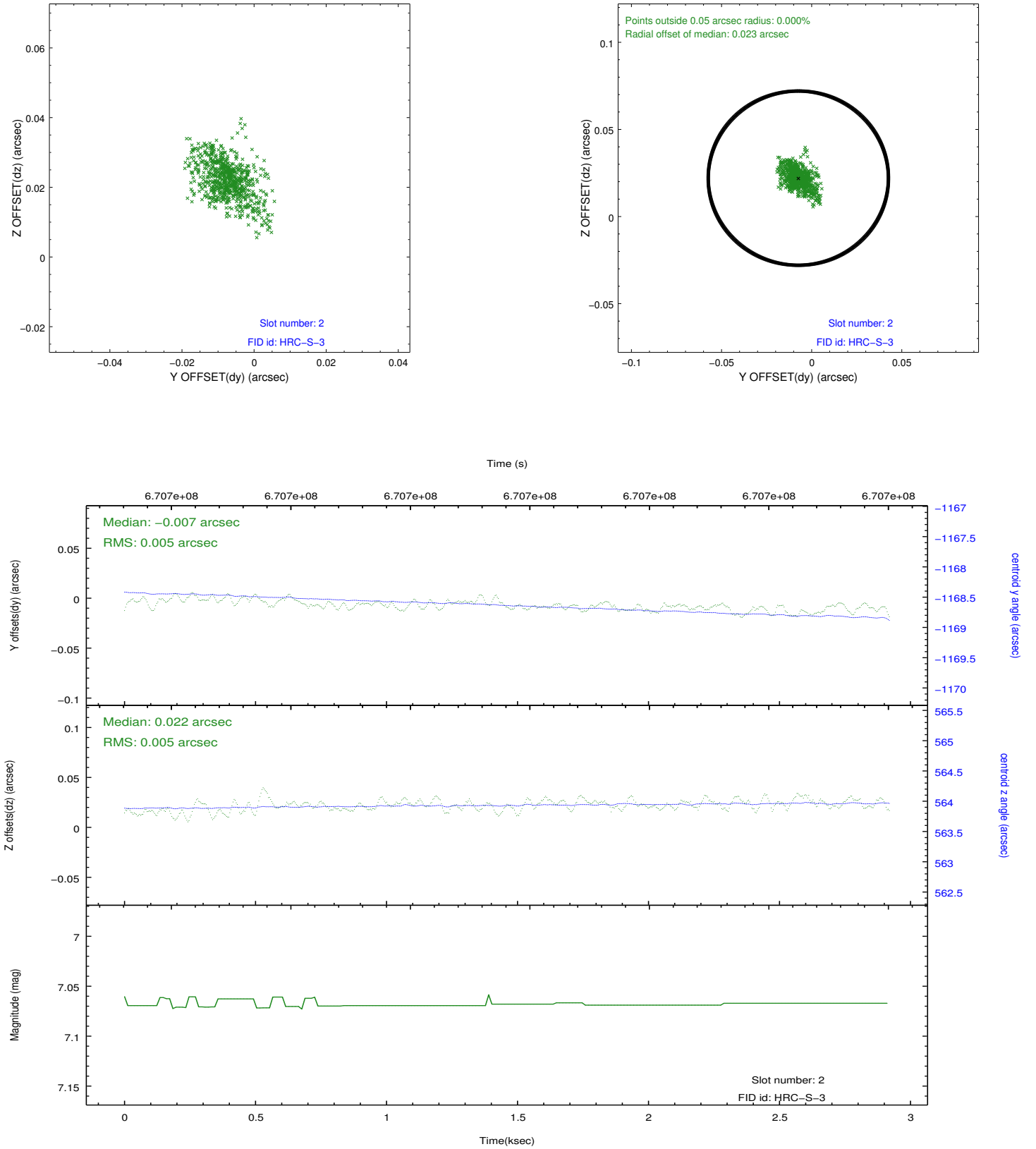
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2019.04.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.8056814185381

A.2 Comments

This is a calibration observation. Target is off-axis. PSF is appropriate for this off-axis position. Custom dither parameters.

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Due to corruption of the secondary science data during this observation, some instrument parameters have bogus values, primarily in the last half of the observation. PLEASE NOTE: All the event data in this observation are good. The short gaps in the GTI intervals can be eliminated (i.e., use the first START and last STOP). THE DTF values during this observation can be estimated by dropping all the low values and averaging the remaining values near 1.0.