

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20861 - L2 Version 1
Chandra X-Ray Center

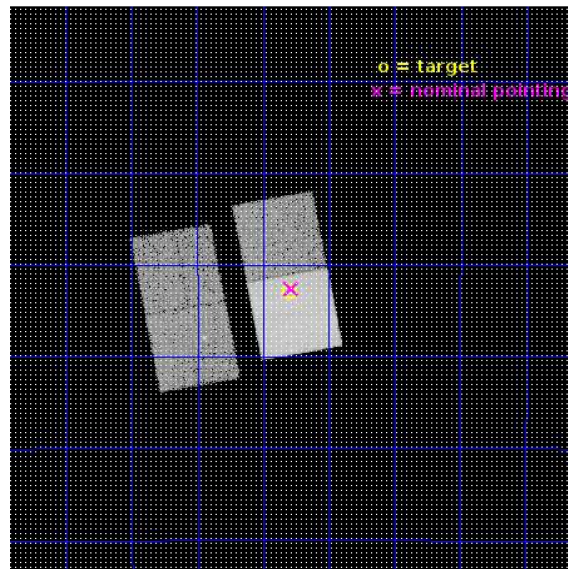
L2 Processing Date : Dec 7 2017

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1 Front

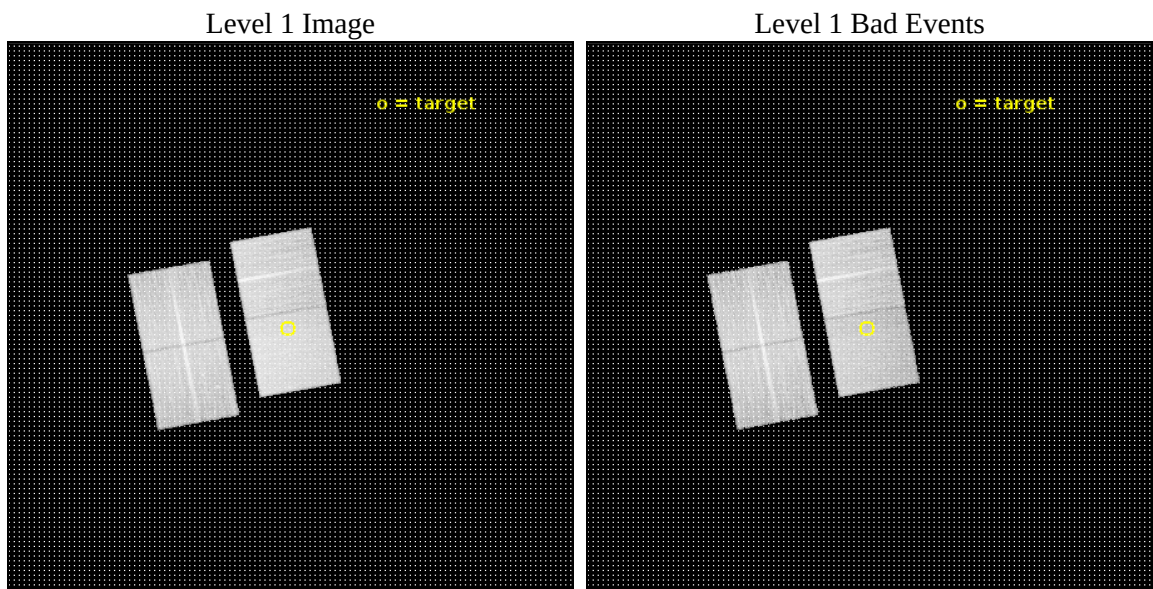
seq_num	402012	Sequence number
obs_id	20861	Observation id
title	GW170817: Tracking the X-ray light curve to study the origin of the emission	Proposal title
observer	Belinda Wilkes	Principal investigator
object	GW170817	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	197.450417	Observer's specified target RA [deg]
dec_targ	-23.381472	Observer's specified target Dec [deg]
ra_nom	197.44641451566	Nominal RA [deg]
dec_nom	-23.376562637743	Nominal Dec [deg]
roll_nom	79.438999912979	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25068.737654686	Sum of GTIs [s]
livetime	24741.196141891	Livetime [s]
ontime2	25068.614534736	Sum of GTIs [s]
ontime3	25065.514614344	Sum of GTIs [s]
ontime6	25065.555654407	Sum of GTIs [s]
ontime7	25068.737654686	Sum of GTIs [s]
l2events	145886	Number of level 2 events



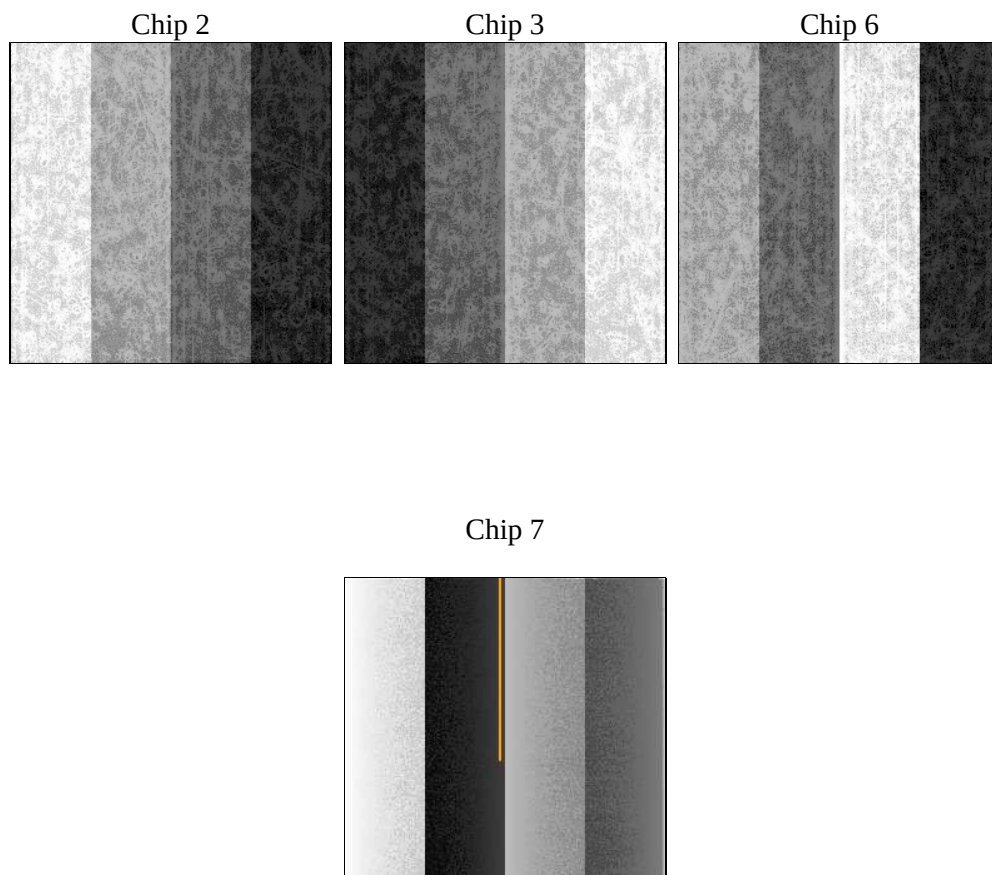
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	25068.737654686	Sum of GTIs [s]
caldsver	4.7.6	 	ontime2	25068.614534736	Sum of GTIs [s]
date	2017-12-07T05:39:33	Date and time of file creation	ontime3	25065.514614344	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	25065.555654407	Sum of GTIs [s]
			ontime7	25068.737654686	Sum of GTIs [s]
			l1events	755116	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	175453	168602	185163	225898
rejected events	157128	149631	165127	126971
rejected %	89%	88%	89%	56%

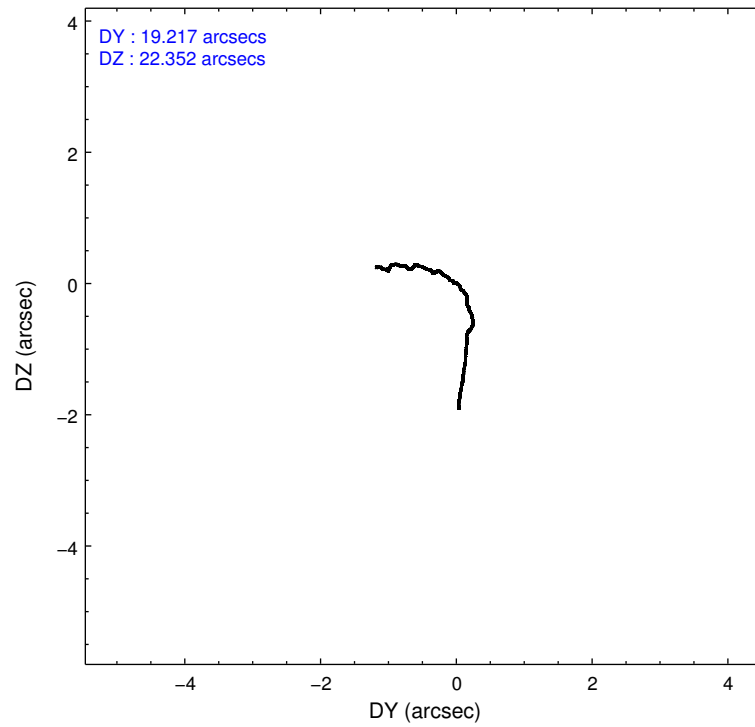
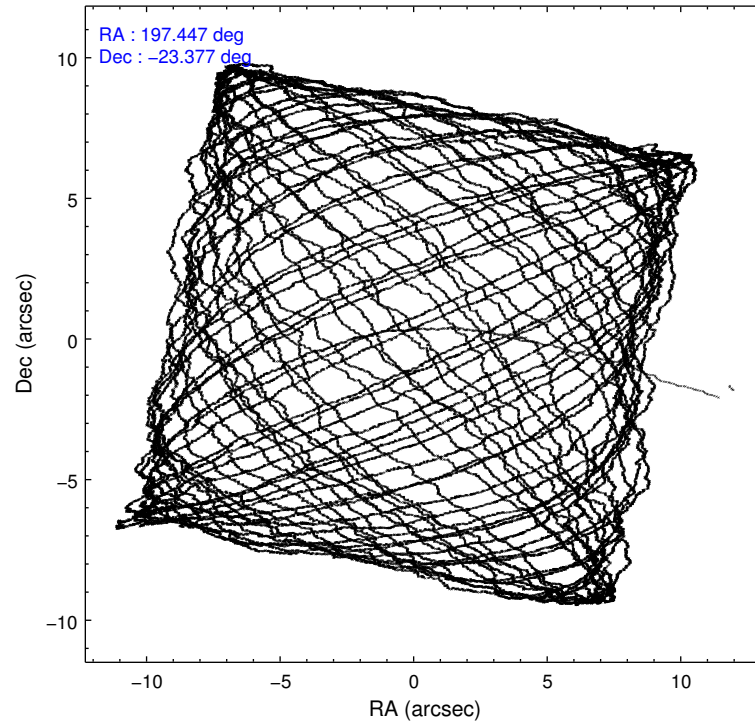
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	6366	7071	6353	8433
	3%	4%	3%	3%
grade 1 events	77	115	94	312
	0%	0%	0%	0%
grade 2 events	4493	4020	5015	20925
	2%	2%	2%	9%
grade 3 events	1804	1960	1902	7831
	1%	1%	1%	3%
grade 4 events	1939	2039	1828	7911
	1%	1%	0%	3%
grade 5 events	6676	8078	8186	22650
	3%	4%	4%	10%
grade 6 events	3725	3888	4943	53857
	2%	2%	2%	23%
grade 7 events	150373	141431	156842	103979
	85%	83%	84%	46%

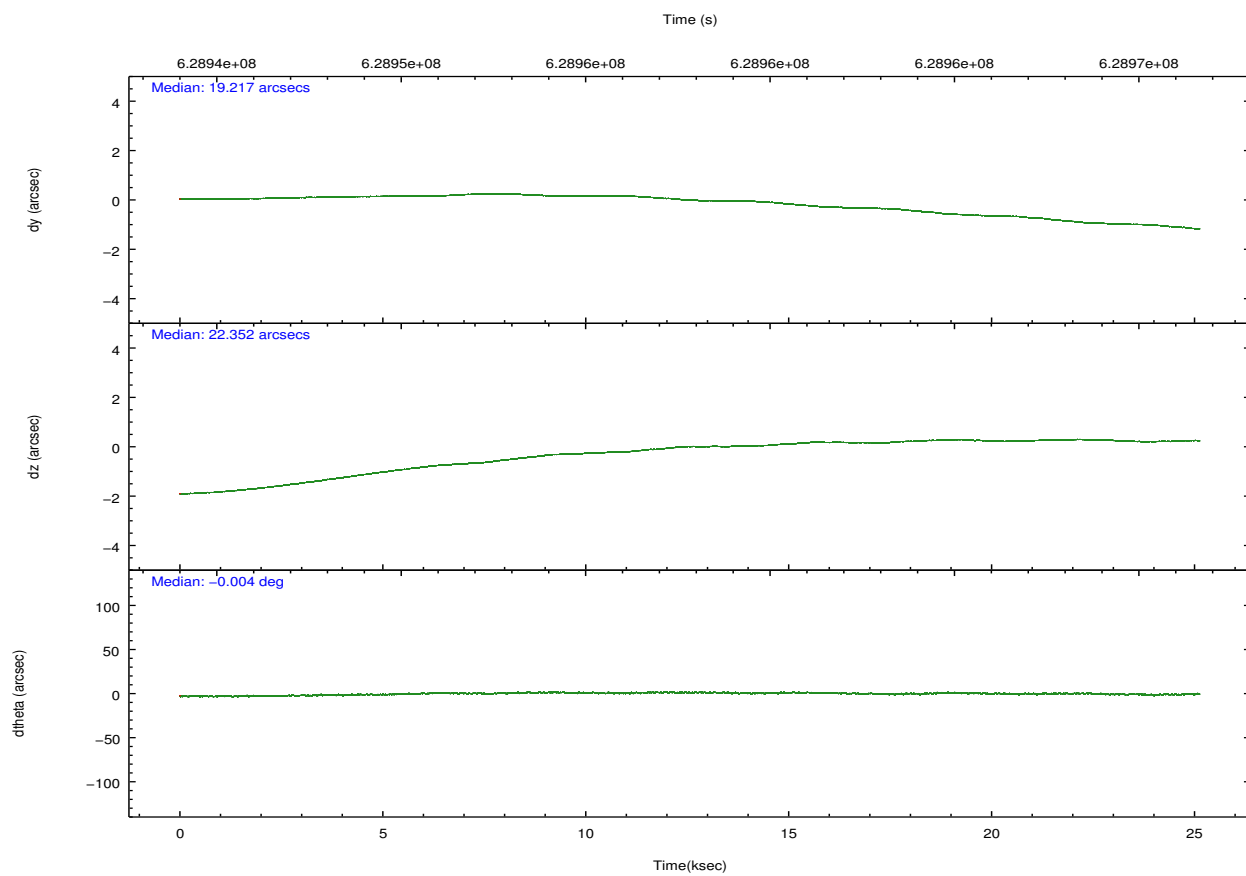
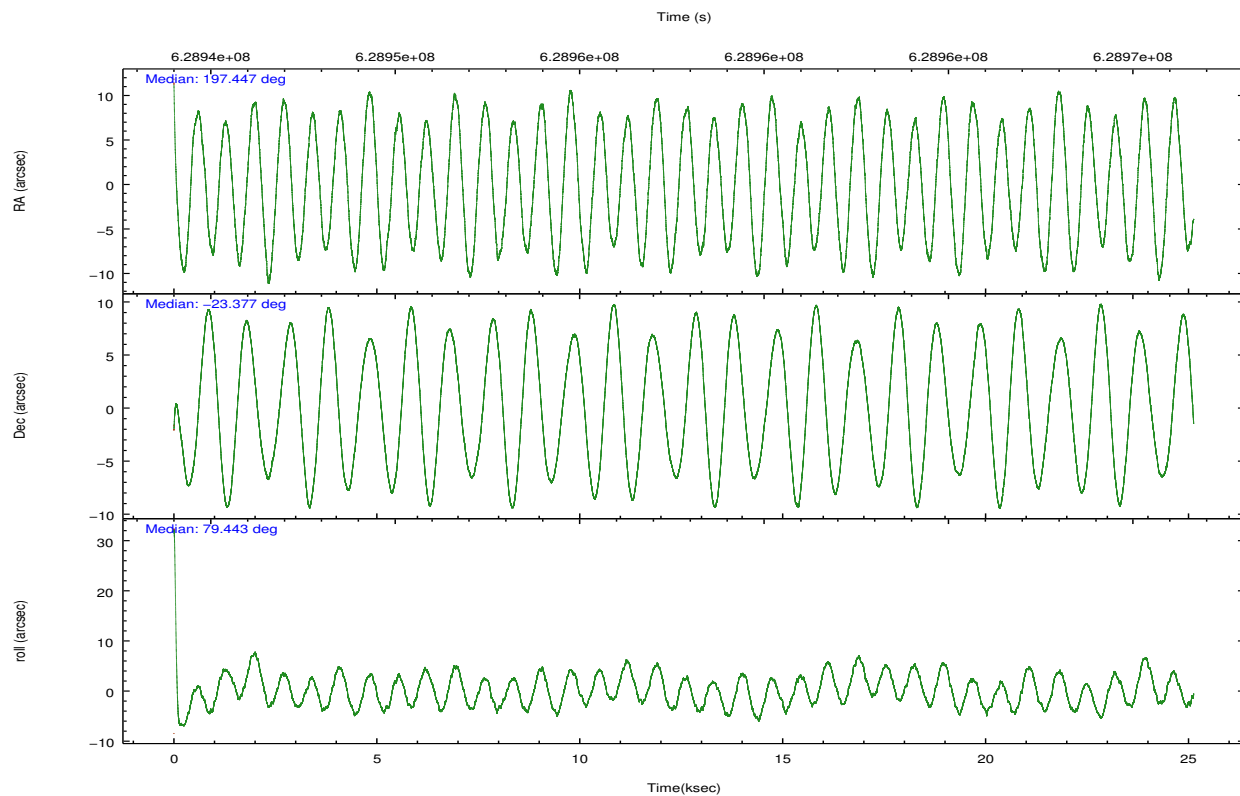
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-2367	ACIS-2367
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	197.456750	197.4464145156581
[deg] Pointing Dec	-23.402322	-23.3765626377431
[deg] Pointing Roll	79.286461	79.43899991297948
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	628945405.184000	628944280.3847899
Observation start date	2017-12-06T11:02:16	2017-12-06T10:44:40
[s] Observation end time (MET)	628970405.184000	628971207.13638
Observation end date	2017-12-06T17:58:56	2017-12-06T18:13:27
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O3	Y
CCD S3 on	Y	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



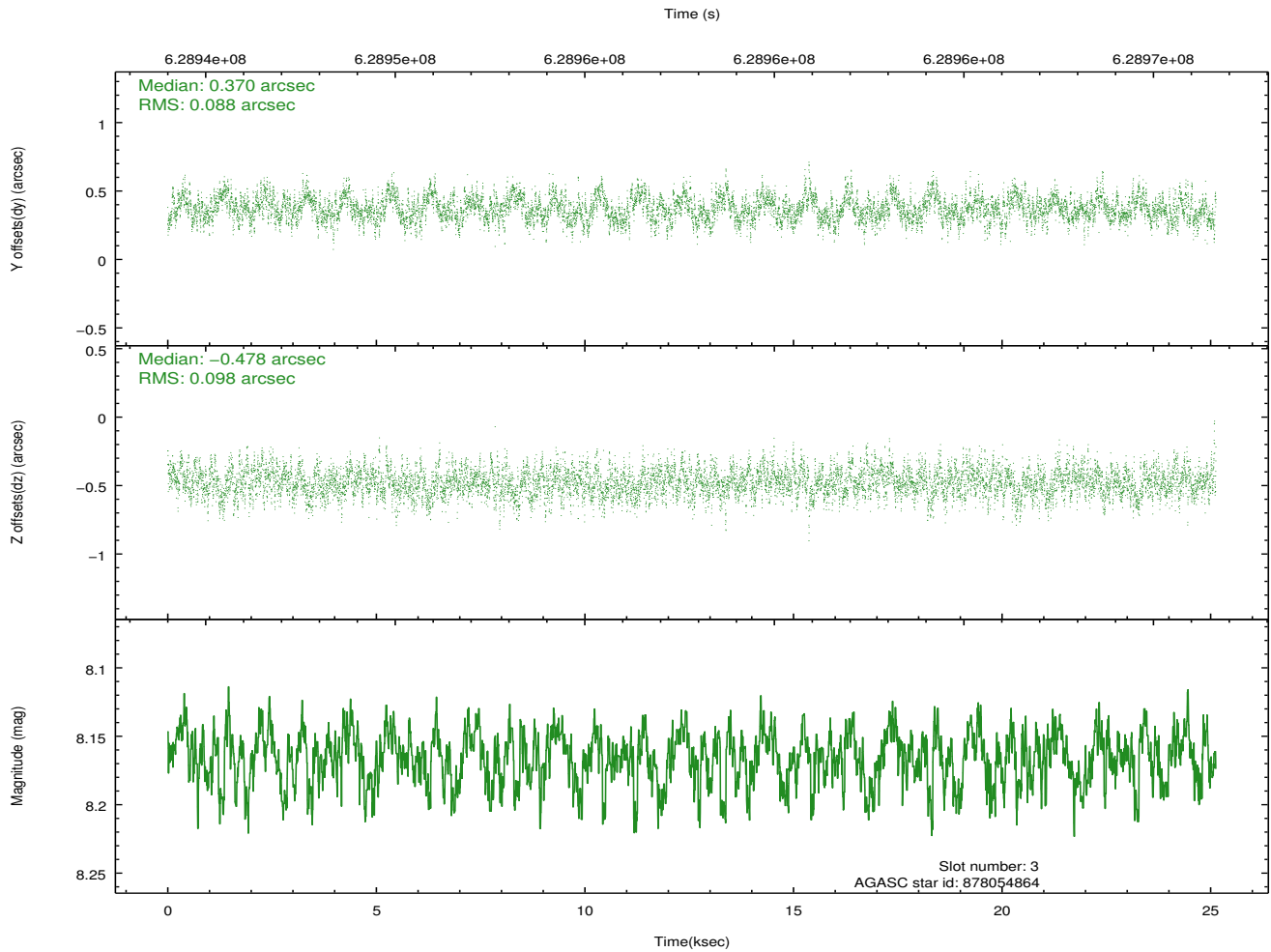
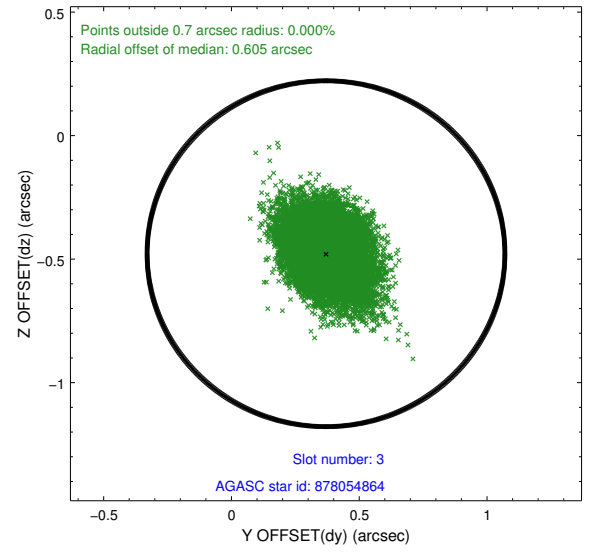
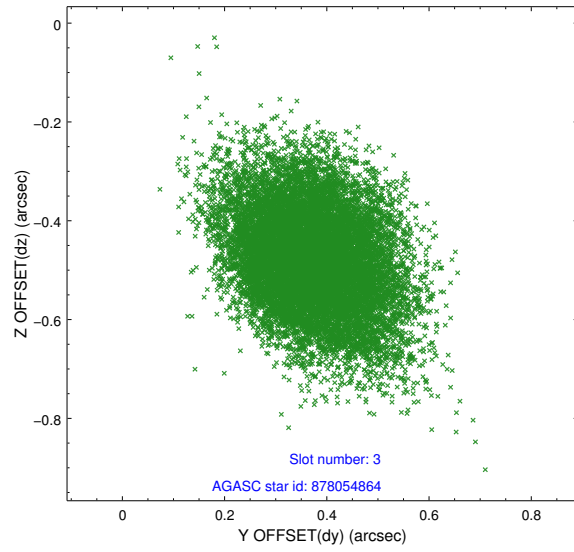


Slot Statistics

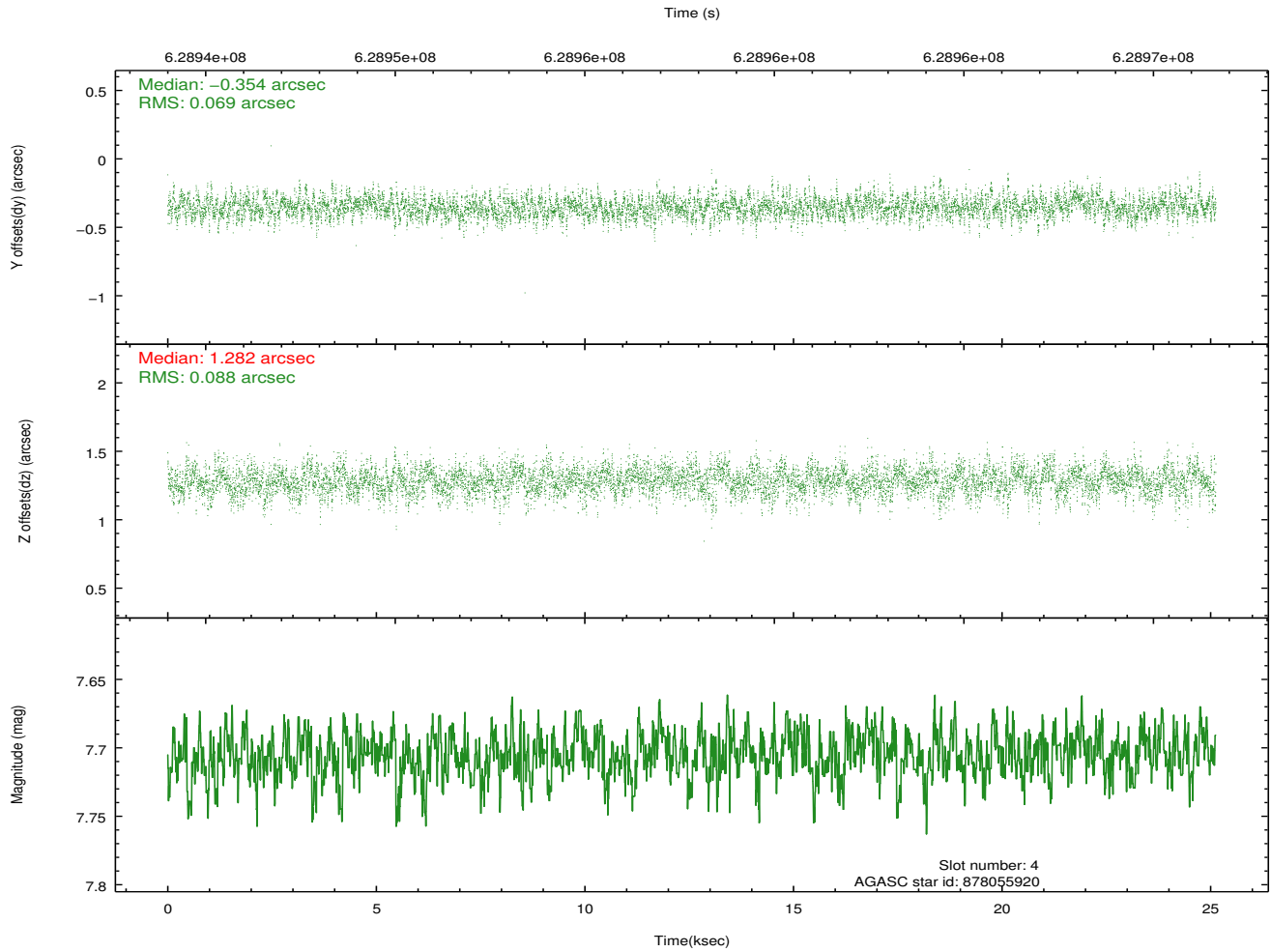
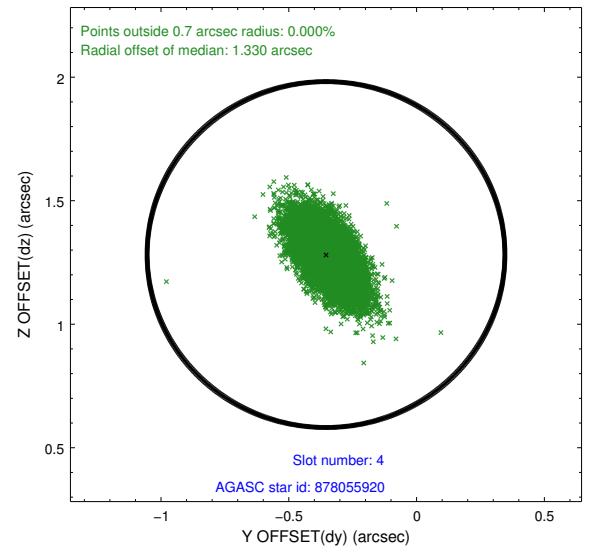
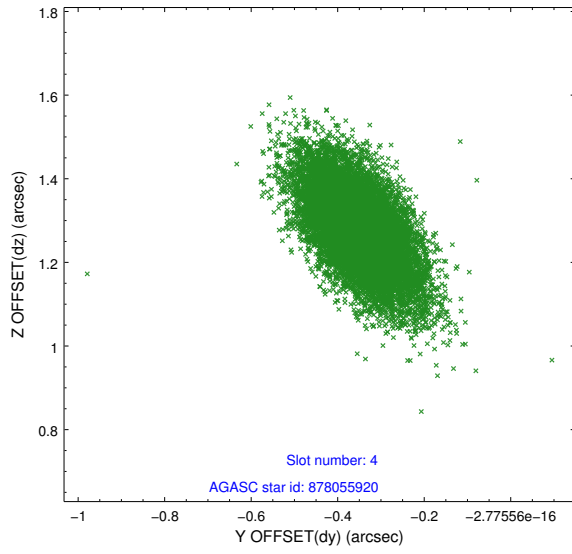
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.08	6129	-0.232	-0.149	0.033	0.049	0.000000	0.000000	-772.32	-1743.67
1	FID		ACIS-S-4	7.19	6128	0.519	0.156	0.044	0.063	0.000000	0.000000	2141.65	164.99
2	FID		ACIS-S-5	7.19	6129	-0.318	0.014	0.016	0.047	0.000000	0.000000	-1825.10	158.65
3	GUIDE	used	878054864	8.16	12252	0.370	-0.478	0.139	0.228	197.588589	-23.624647	-705.07	-575.93
4	GUIDE	used	878055920	7.71	12254	-0.354	1.282	0.113	0.203	197.166113	-23.822063	-1663.61	661.34
5	GUIDE	used	878061480	7.97	12251	-0.741	-0.627	0.119	0.204	197.360027	-22.852260	1884.94	684.05
6	GUIDE	used	878056592	8.74	12246	0.348	-0.339	0.152	0.246	197.586702	-23.861101	-1542.68	-725.89
7	GUIDE	used	878058736	7.34	12255	0.377	0.161	0.137	0.270	198.300420	-22.933201	2171.59	-2434.99

2.4 Star Slots

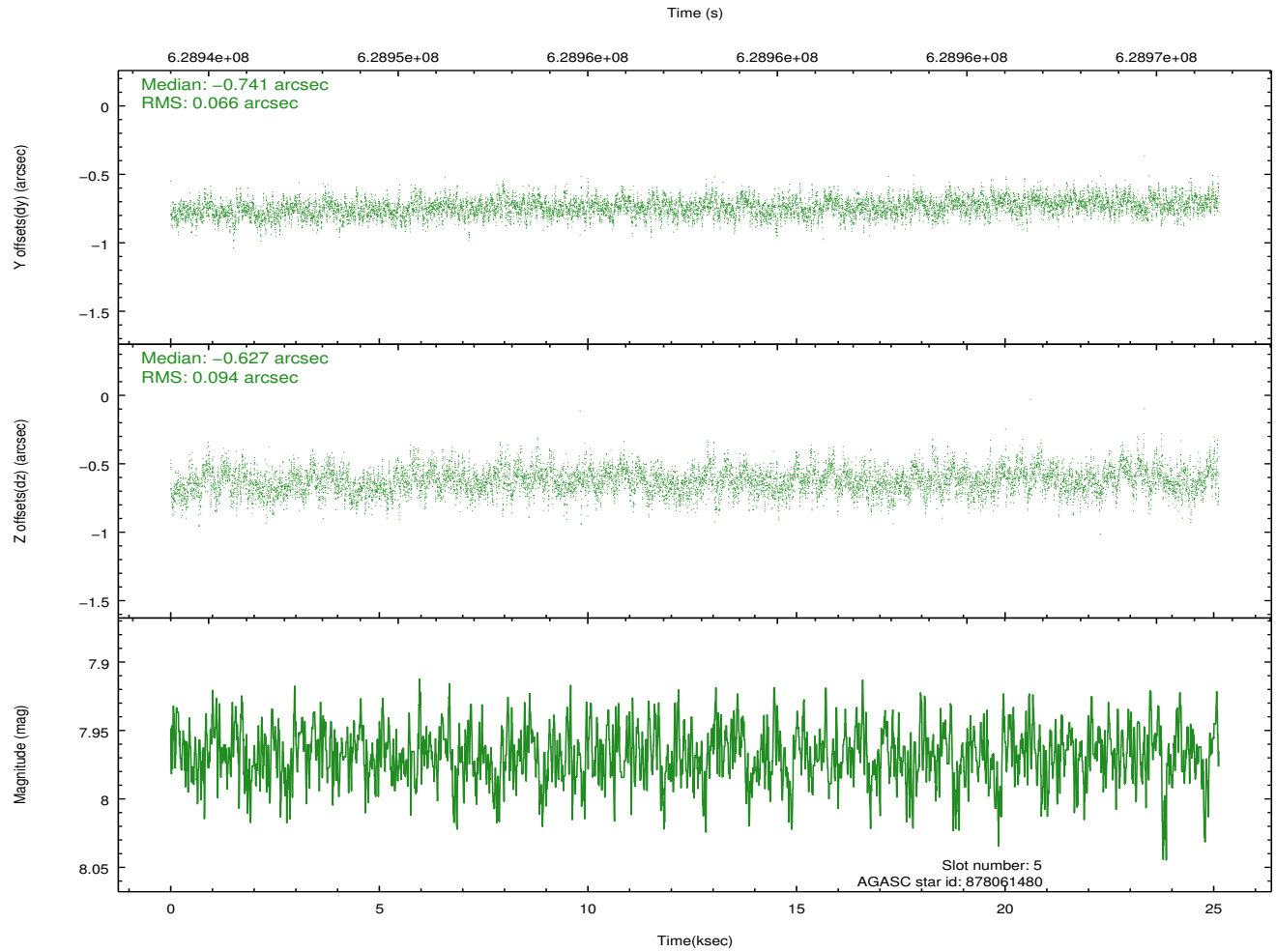
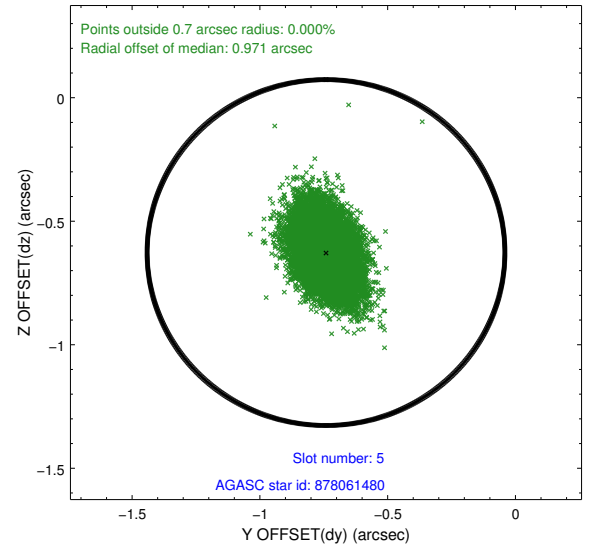
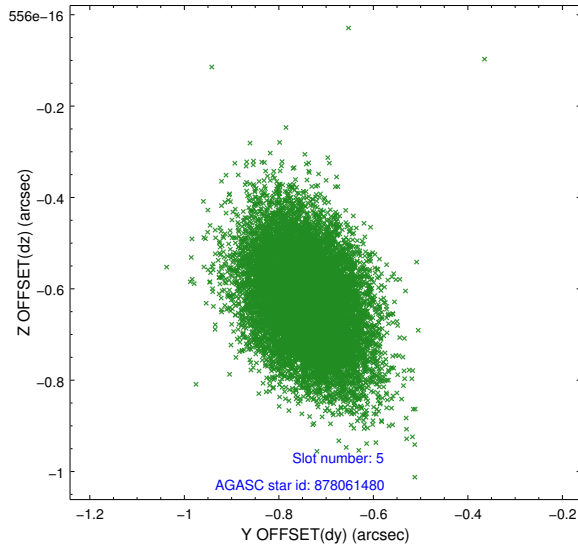
2.4.1 Slot 3



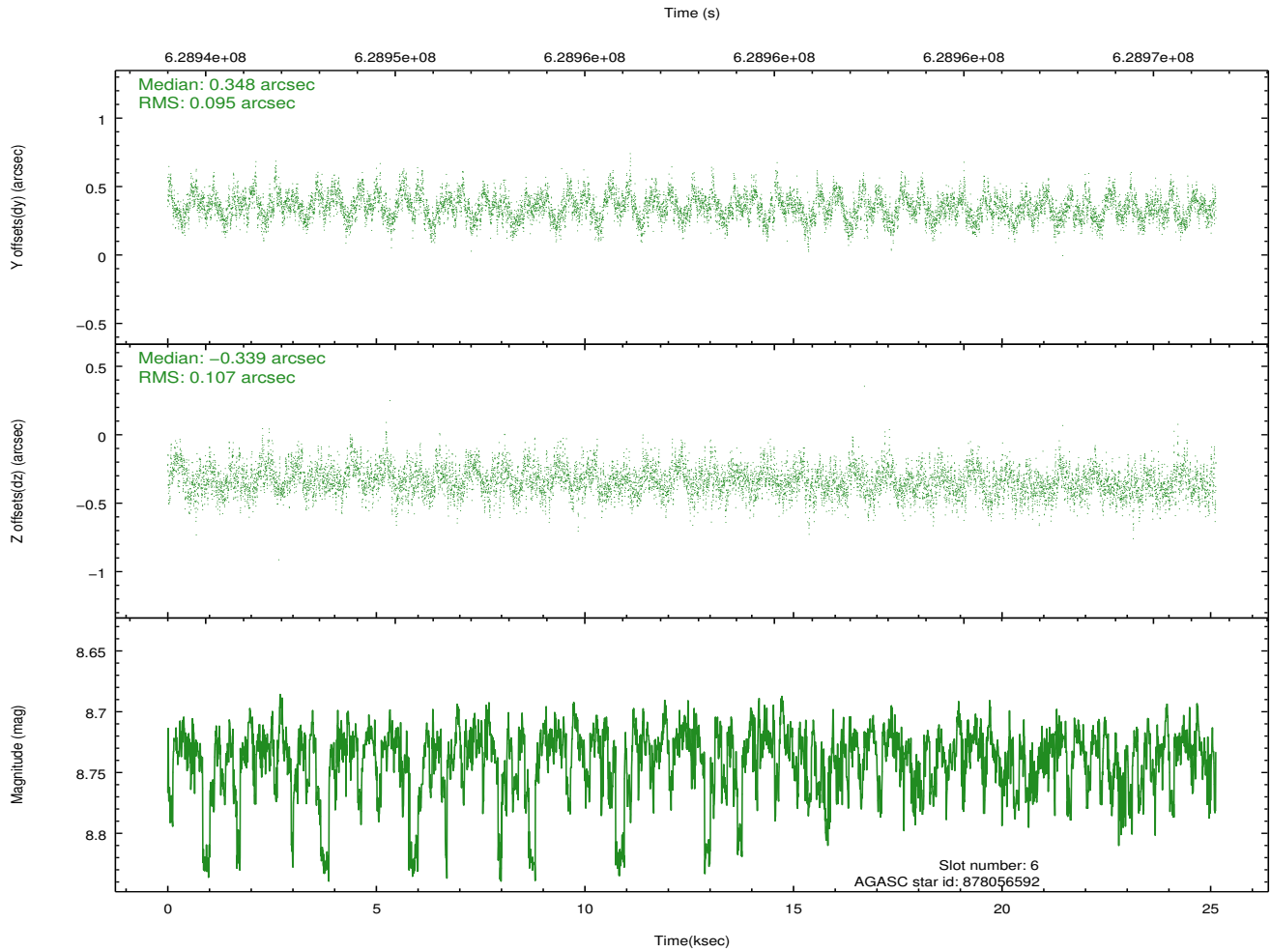
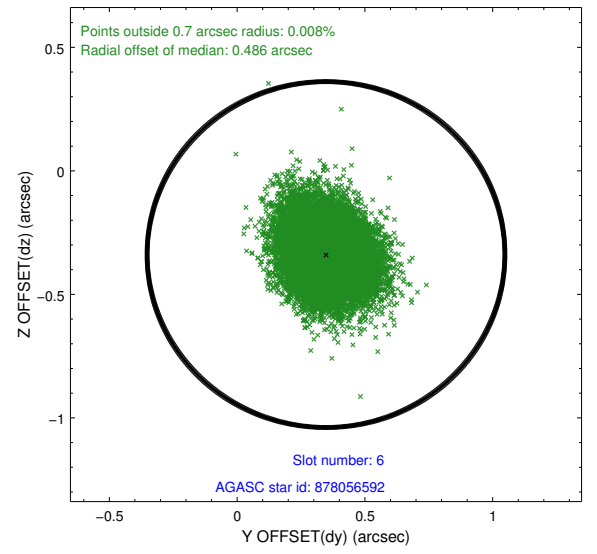
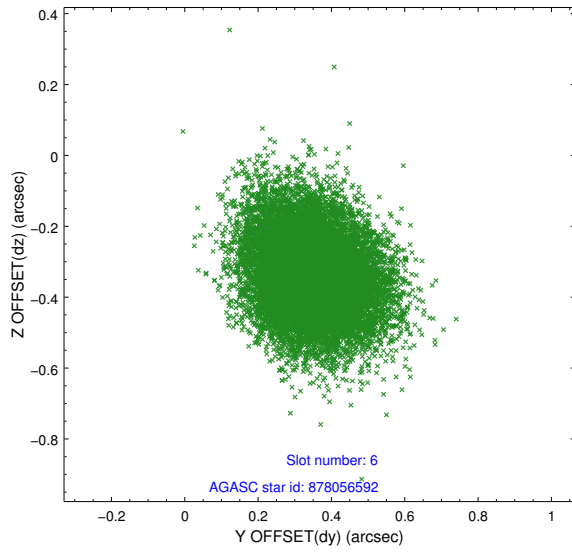
2.4.2 Slot 4



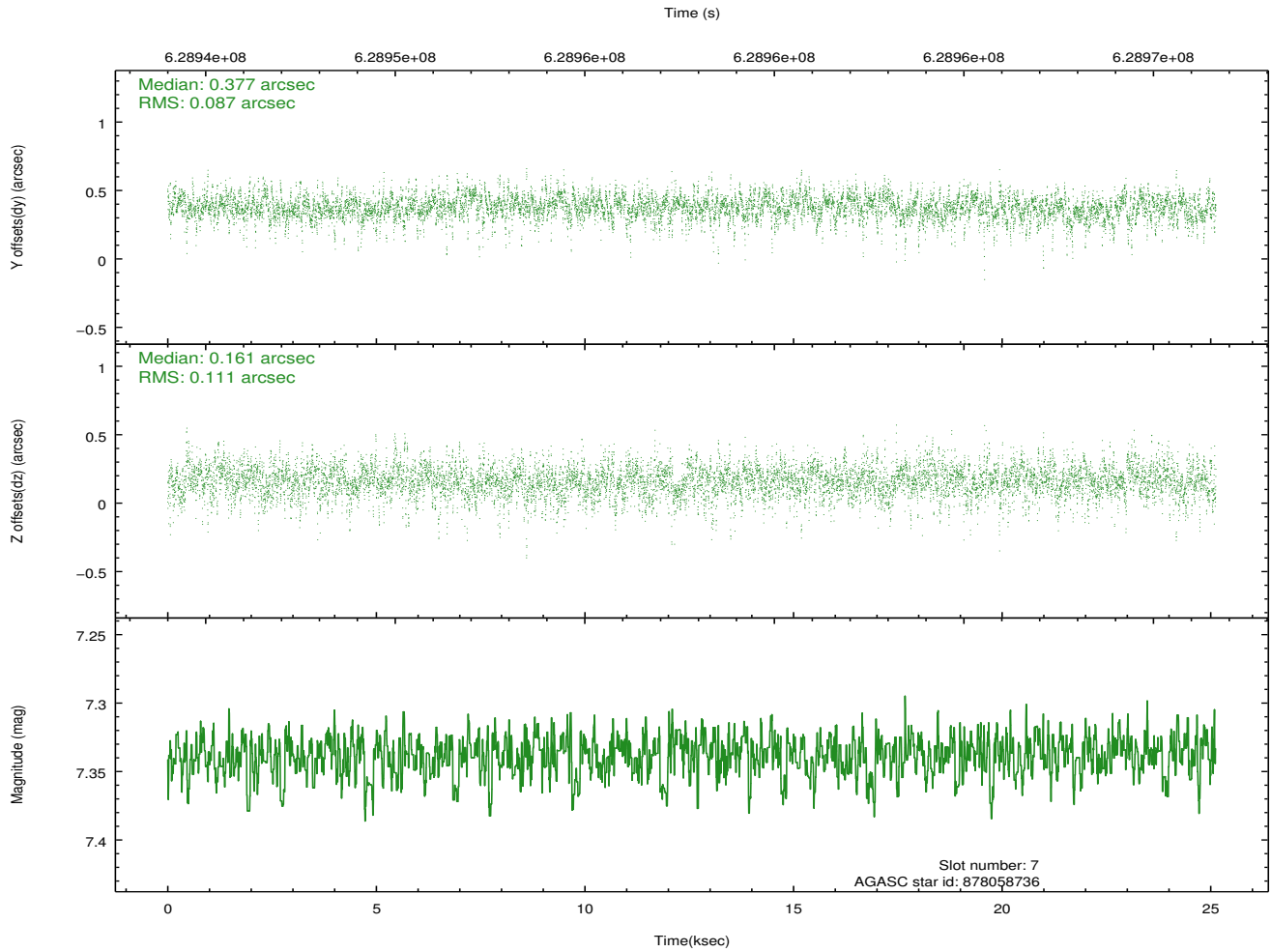
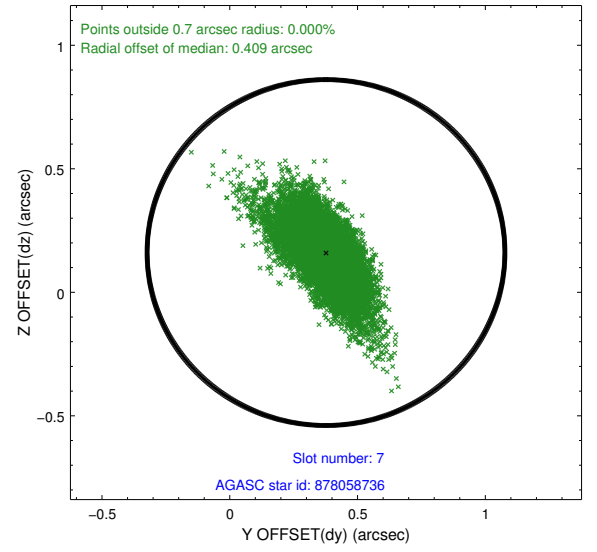
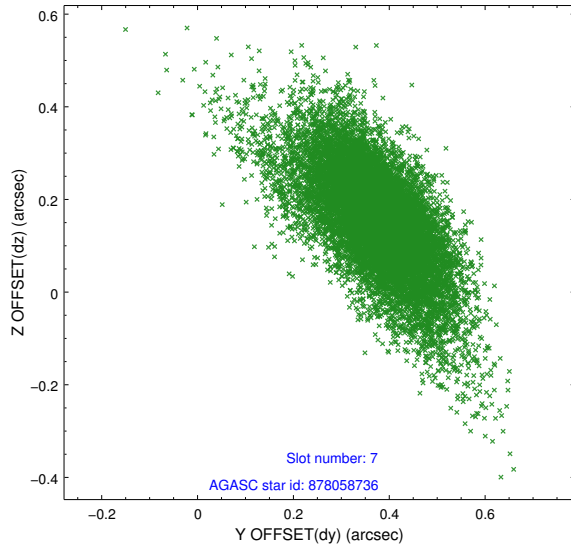
2.4.3 Slot 5



2.4.4 Slot 6

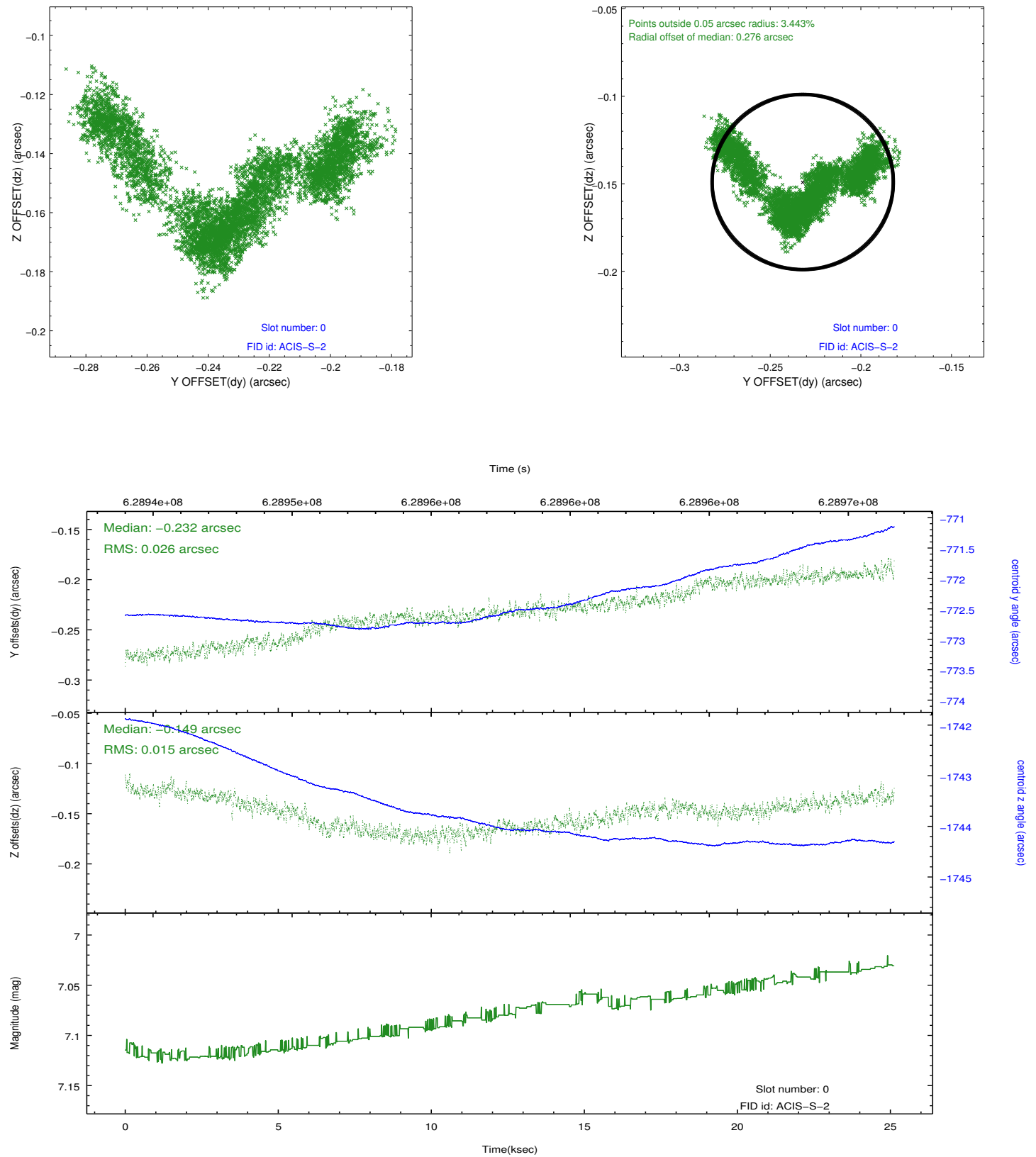


2.4.5 Slot 7

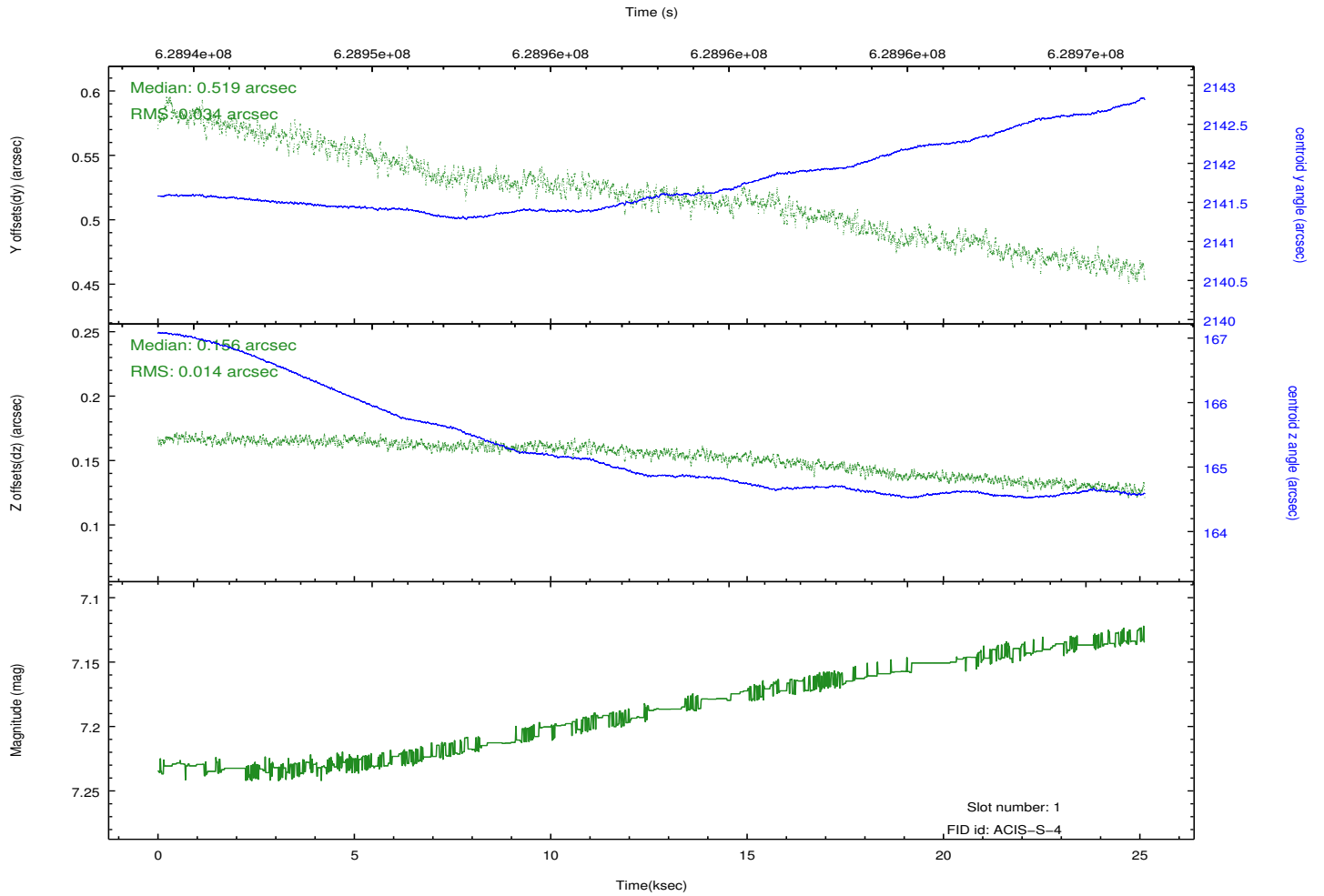
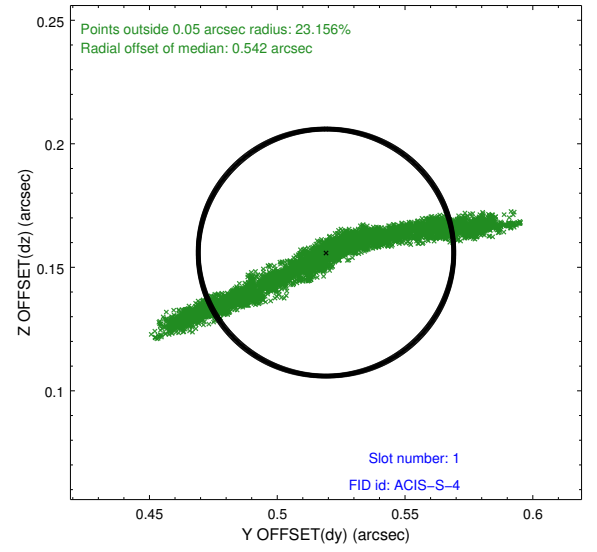
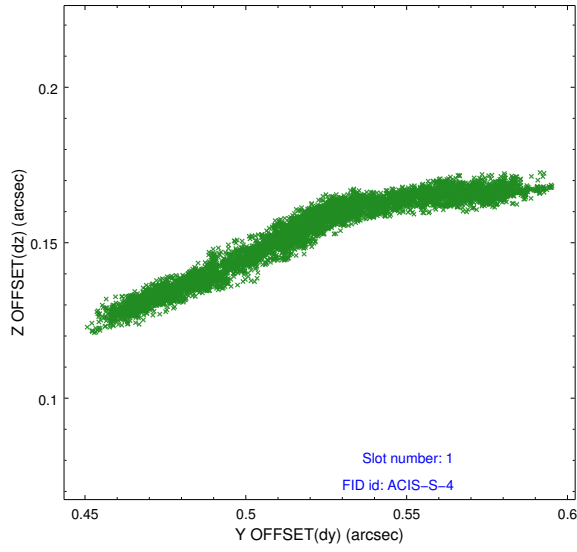


2.5 FID Slots

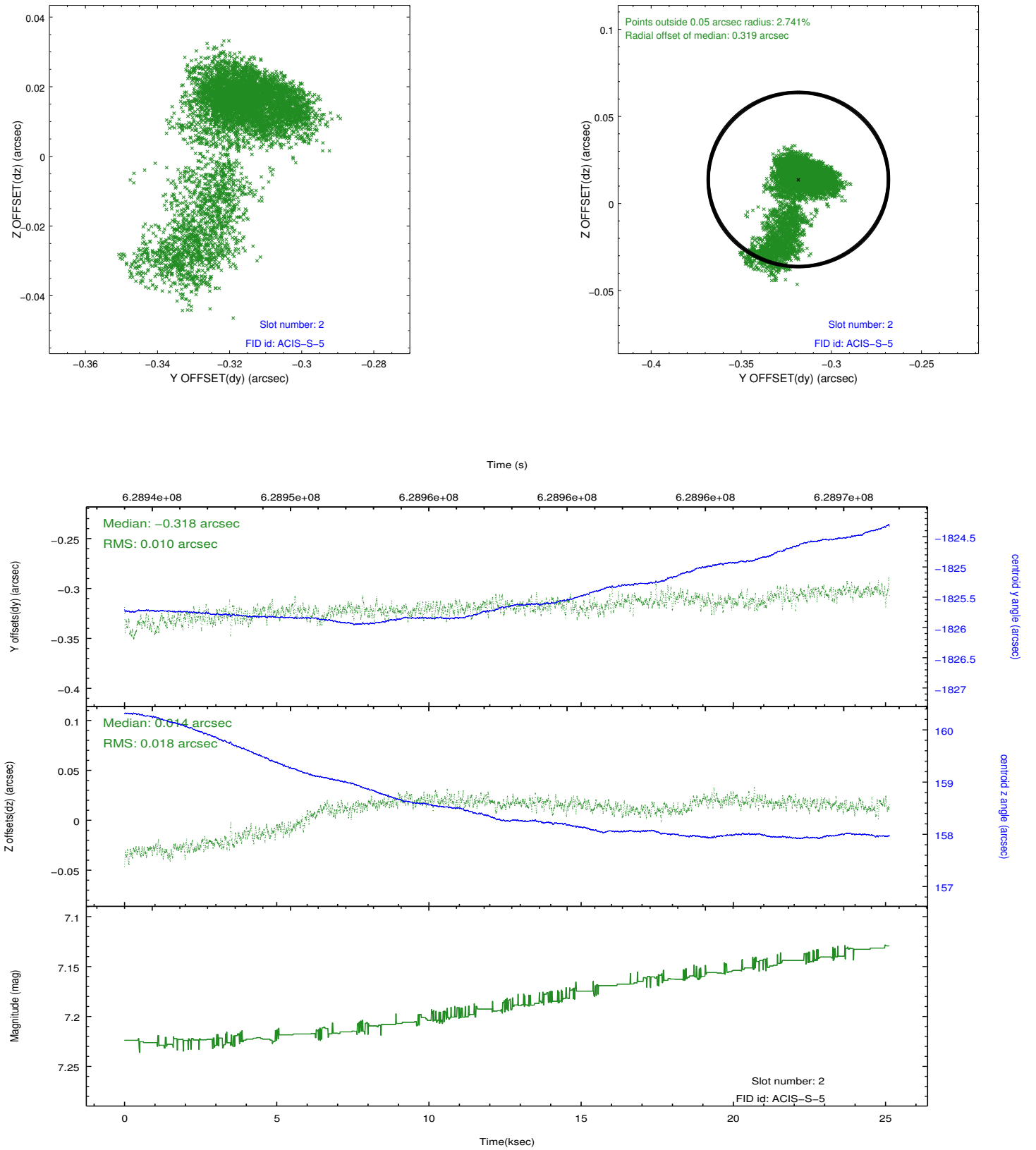
2.5.1 Slot 0



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)	2017.12.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.068737654686

A.2 Comments