

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21415 - L2 Version 1
Chandra X-Ray Center

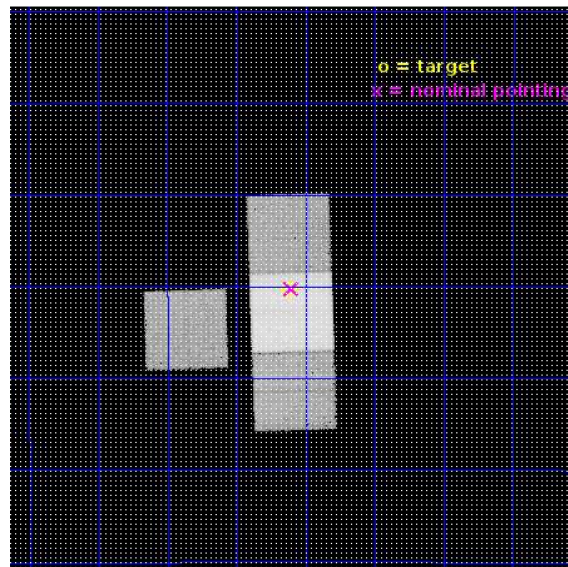
L2 Processing Date : Aug 19 2019

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1 Front

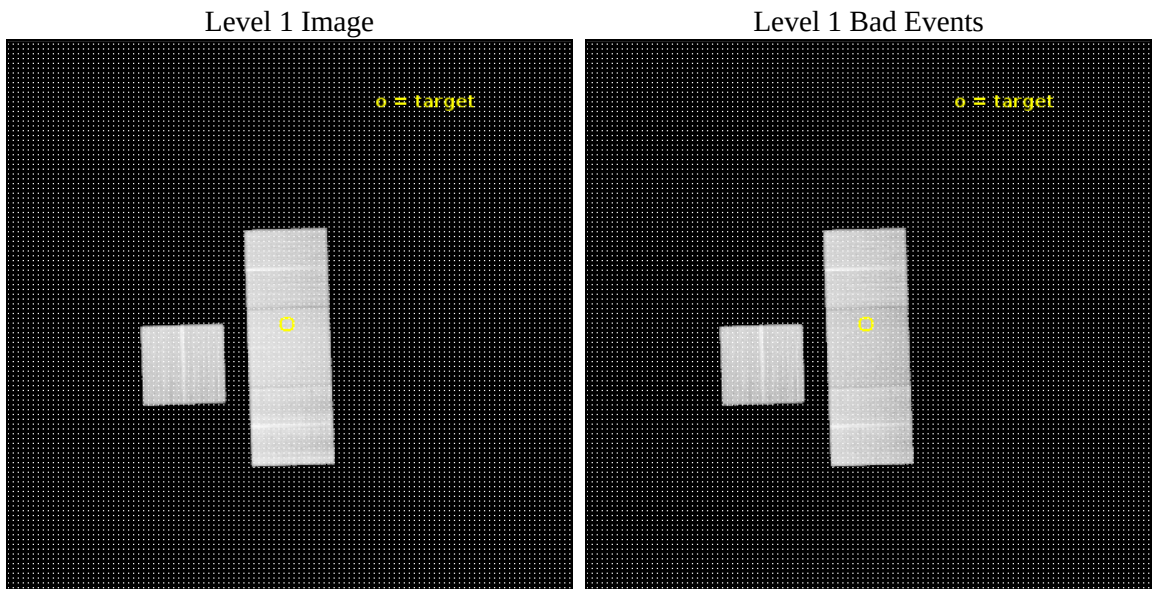
seq_num	703713	Sequence number
obs_id	21415	Observation id
title	X-rays from the brightest radio source at z~6	Proposal title
observer	Eduardo Banados	Principal investigator
object	P352-15	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	352.403333	Observer's specified target RA [deg]
dec_targ	-15.337333	Observer's specified target Dec [deg]
ra_nom	352.40048162094	Nominal RA [deg]
dec_nom	-15.337118125671	Nominal Dec [deg]
roll_nom	88.155862585968	Nominal Roll [deg]
revision	1	Processing version of data
ontime	42066.551597953	Sum of GTIs [s]
livetime	41516.921132381	Livetime [s]
ontime3	42063.328487635	Sum of GTIs [s]
ontime6	42063.369527817	Sum of GTIs [s]
ontime7	42066.551597953	Sum of GTIs [s]
ontime8	42066.428478003	Sum of GTIs [s]
l2events	271152	Number of level 2 events



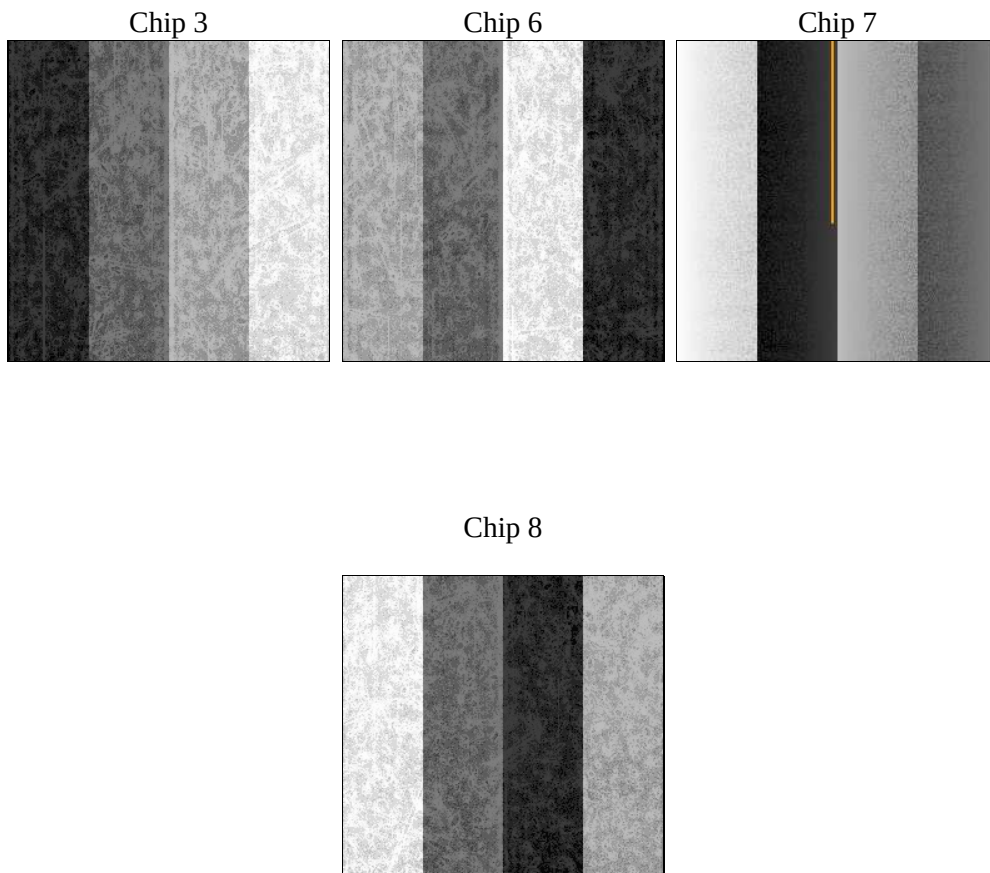
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	42000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	42066.551597953	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime3	42063.328487635	Sum of GTIs [s]
date	2019-08-19T20:58:31	Date and time of file creation	ontime6	42063.369527817	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	42066.551597953	Sum of GTIs [s]
			ontime8	42066.428478003	Sum of GTIs [s]
			l1events	1502147	Number of level 1 events

2.1.4 Events

	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	318023	341879	419719	422526
rejected events	285508	305930	239781	313112
rejected %	89%	89%	57%	74%

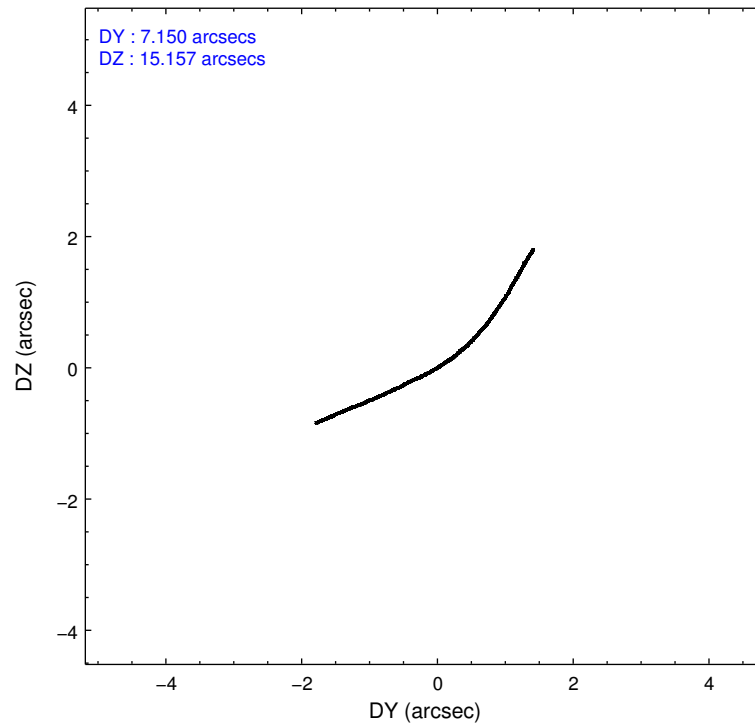
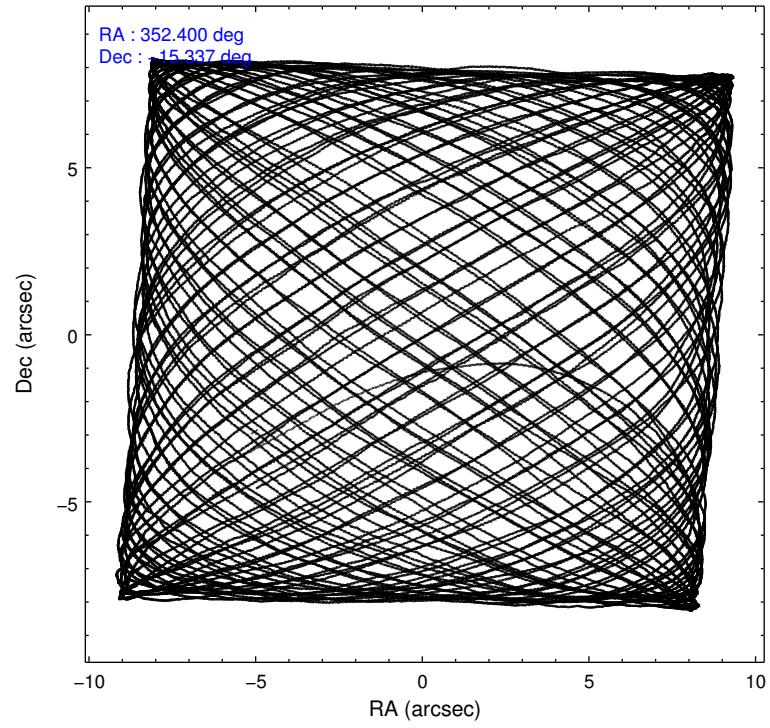
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	10936	10413	14640	29819
	3%	3%	3%	7%
grade 1 events	155	159	618	318
	0%	0%	0%	0%
grade 2 events	7248	9585	38061	26880
	2%	2%	9%	6%
grade 3 events	3506	3067	13689	11307
	1%	0%	3%	2%
grade 4 events	3365	3168	13481	10560
	1%	0%	3%	2%
grade 5 events	14355	14213	40241	21930
	4%	4%	9%	5%
grade 6 events	7463	9718	100097	30855
	2%	2%	23%	7%
grade 7 events	270995	291556	198892	290857
	85%	85%	47%	68%

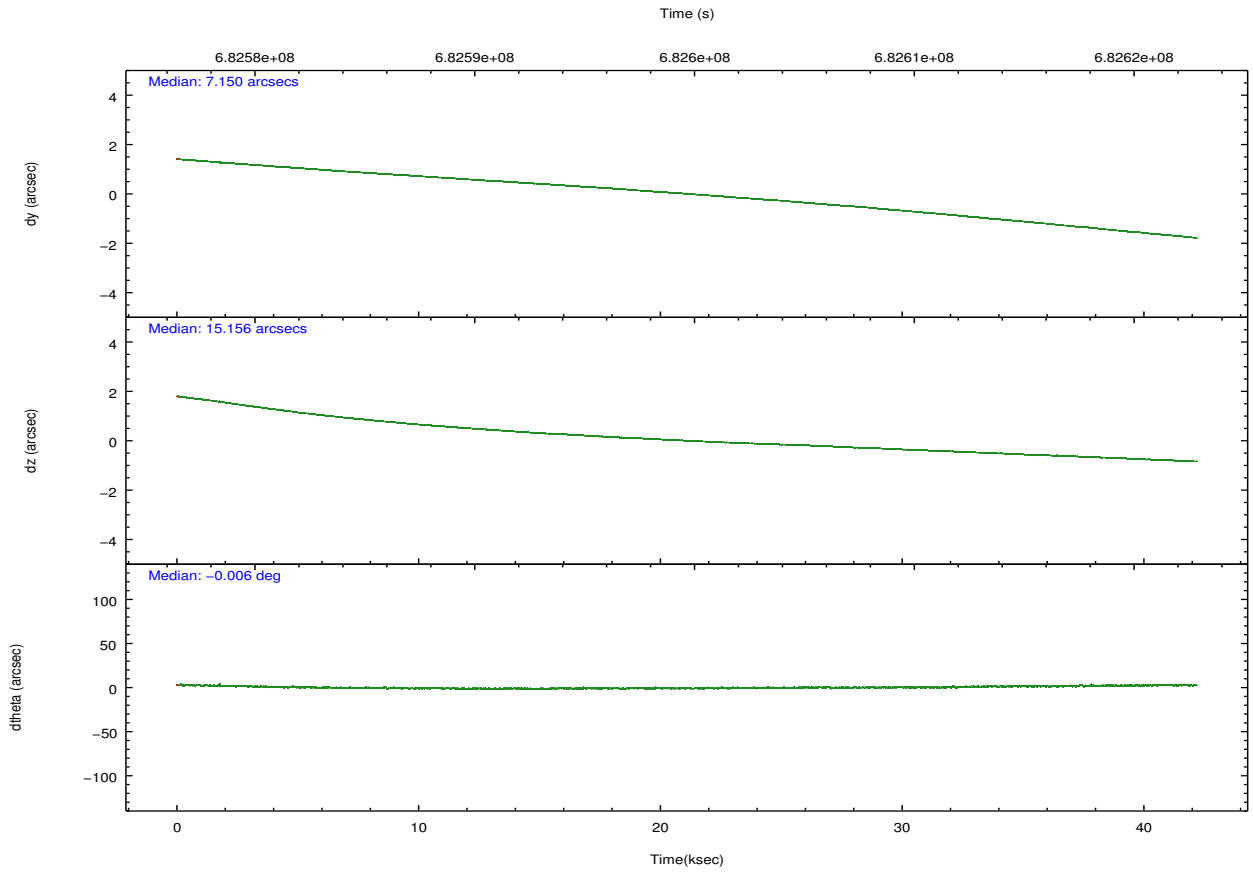
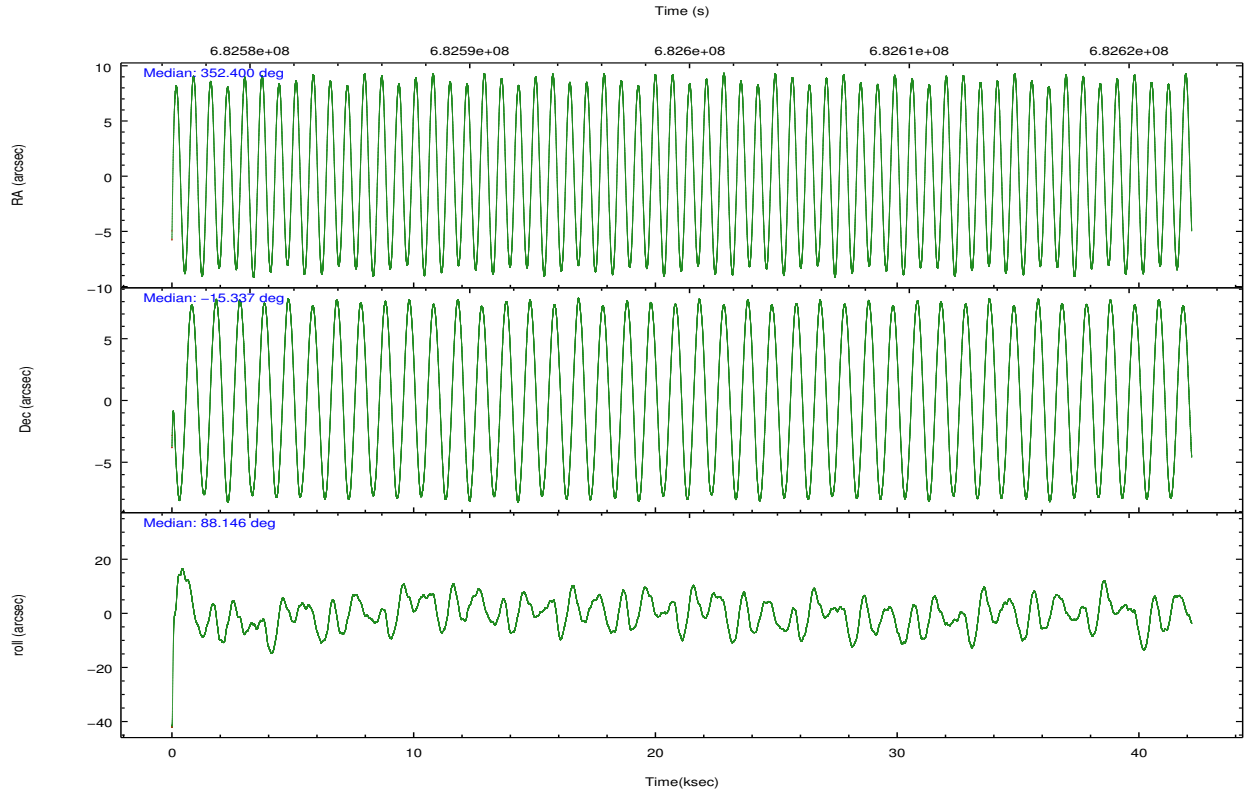
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-3678	ACIS-3678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	352.414234	352.4004816209368
[deg] Pointing Dec	-15.361142	-15.33711812567119
[deg] Pointing Roll	88.002879	88.15586258596831
[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)	682578746.184000	682577251.31595
Observation start date	2019-08-19T05:11:17	2019-08-19T04:47:31
[s] Observation end time (MET)	682620746.184000	682621622.0311199
Observation end date	2019-08-19T16:51:17	2019-08-19T17:07:02
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	N
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	1	1
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



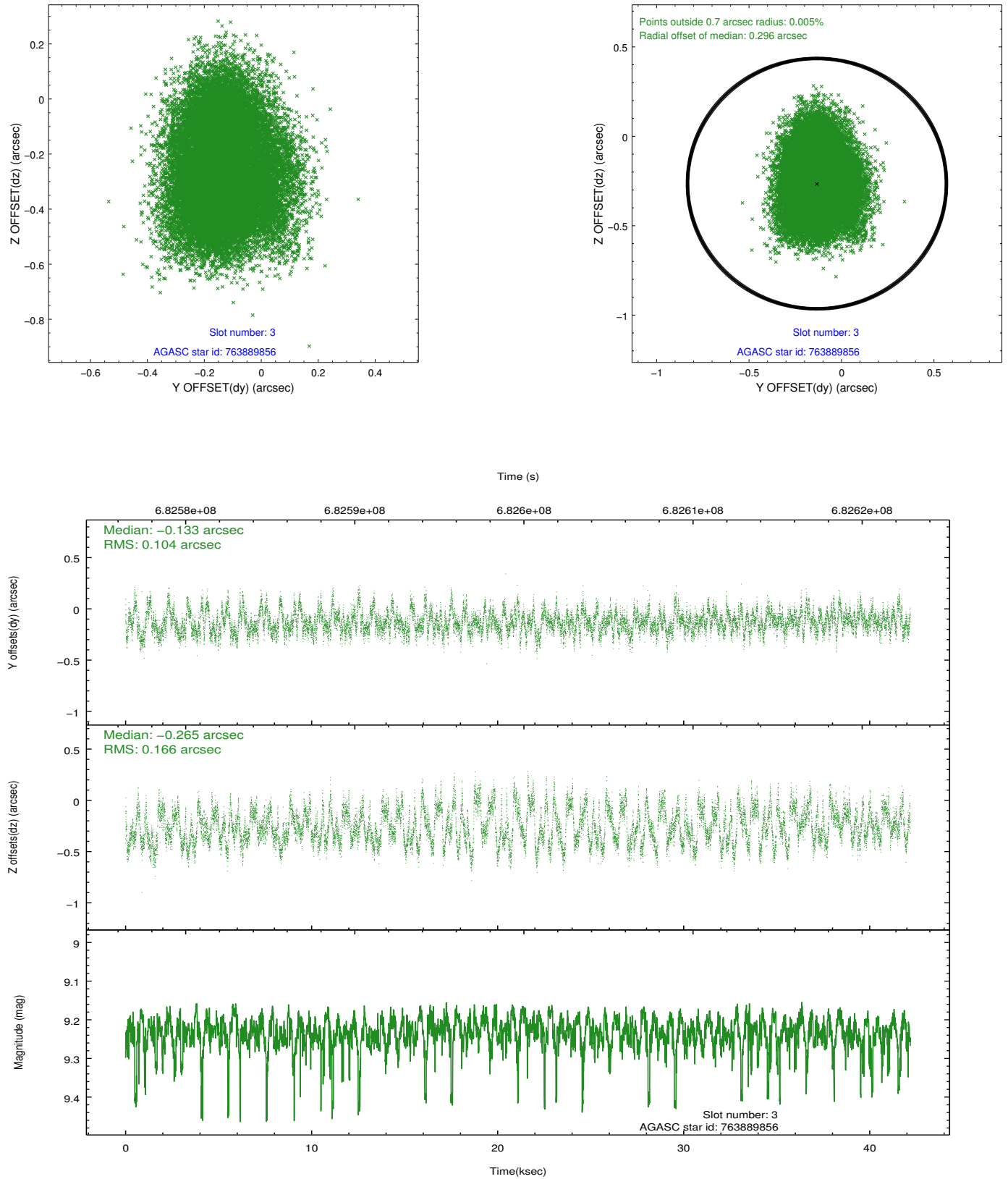


Slot Statistics

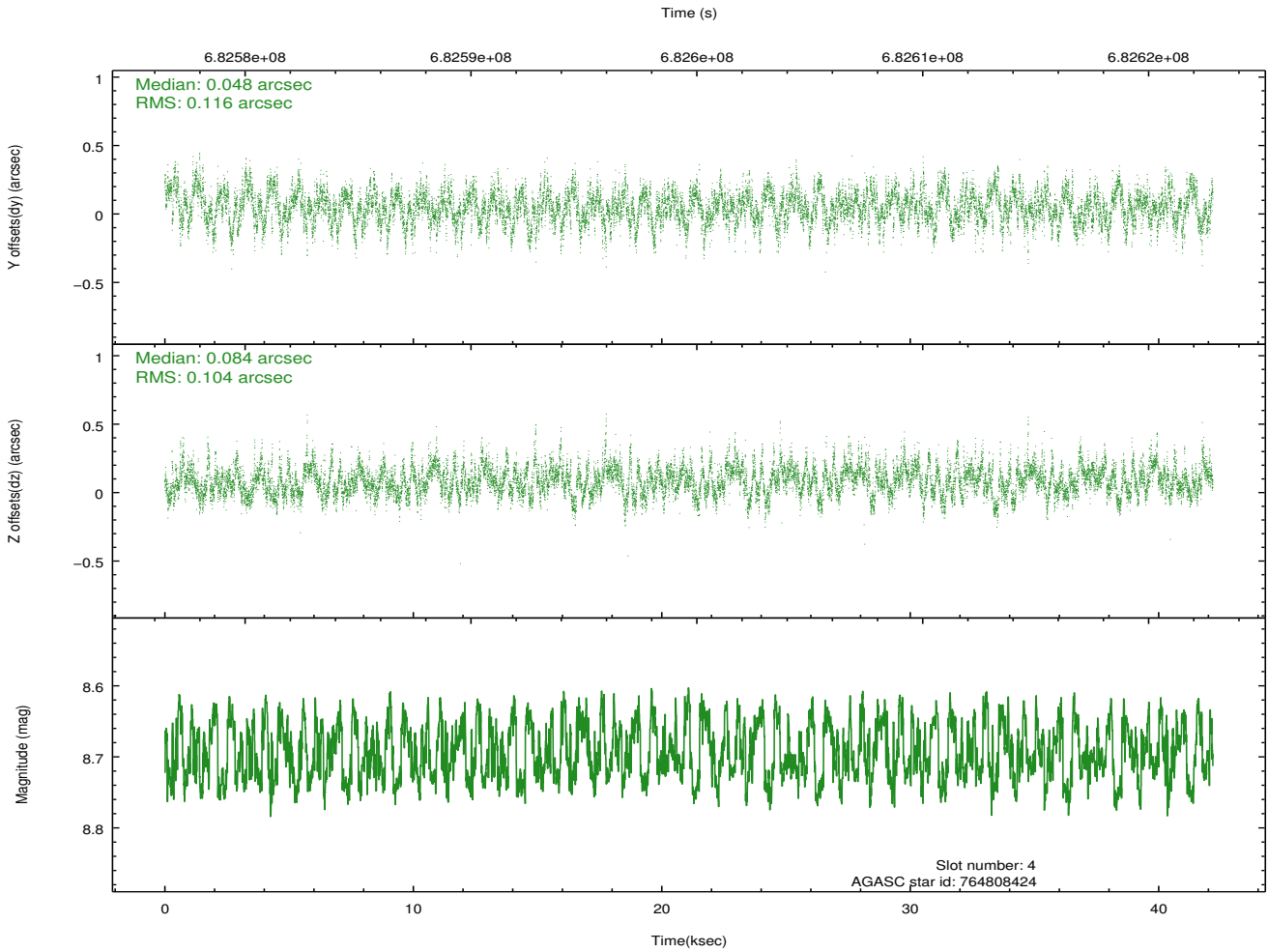
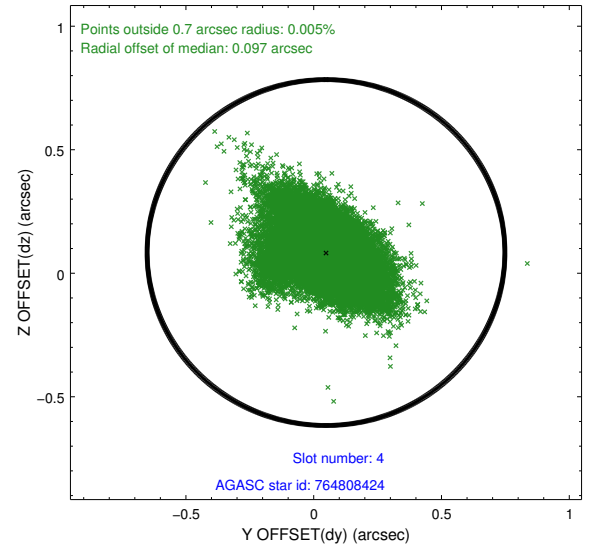
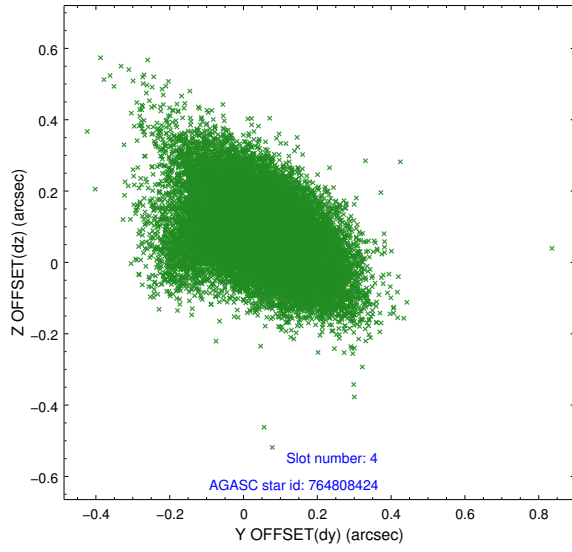
id	status	used	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.08	10289	1.000	-0.249	-0.093	0.023	0.045	0.000000	0.000000	-760.03 -1736
1	FID		ACIS-S-4	7.22	10288	1.000	0.571	0.145	0.015	0.034	0.000000	0.000000	2154.01 172
2	FID		ACIS-S-5	7.20	10289	1.000	-0.348	-0.043	0.020	0.037	0.000000	0.000000	-1813.02 165
3	GUIDE	used	763889856	9.23	20552	1.000	-0.133	-0.265	0.211	0.327	351.806840	-14.828602	1839.09 2179
4	GUIDE	used	764808424	8.70	20569	1.000	0.048	0.084	0.162	0.275	352.864993	-14.696878	2442.98 -1485
5	GUIDE	used	764811080	10.07	19347	1.000	0.021	-0.243	0.347	0.625	353.064762	-14.785292	2147.45 -2190
6	GUIDE	used	839255272	9.53	20548	1.000	0.123	0.368	0.198	0.325	352.744944	-15.268463	373.00 -1135
7	GUIDE	used	839262008	9.81	20538	1.000	-0.057	0.020	0.200	0.326	352.188892	-15.237406	417.16 797

2.4 Star Slots

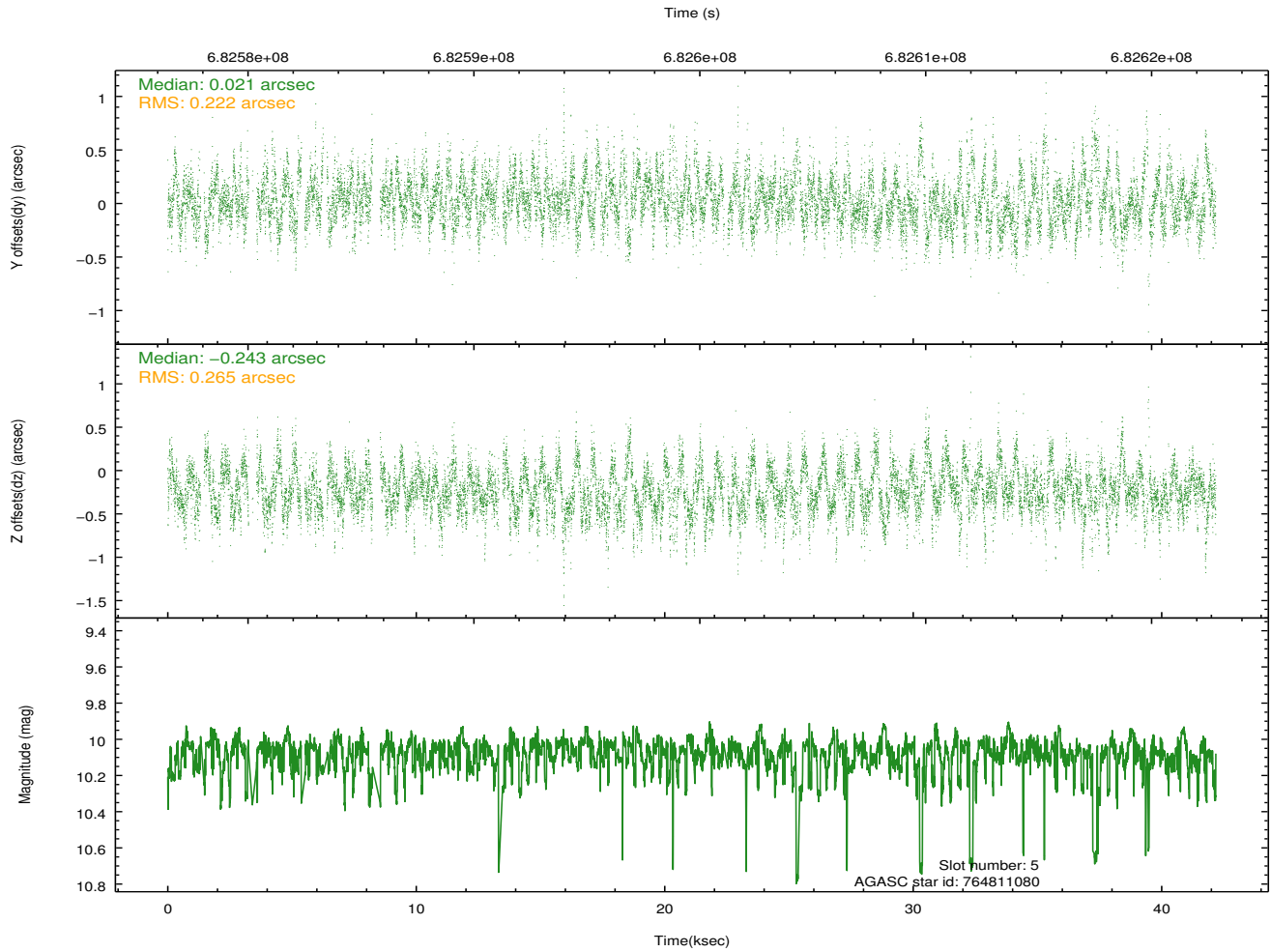
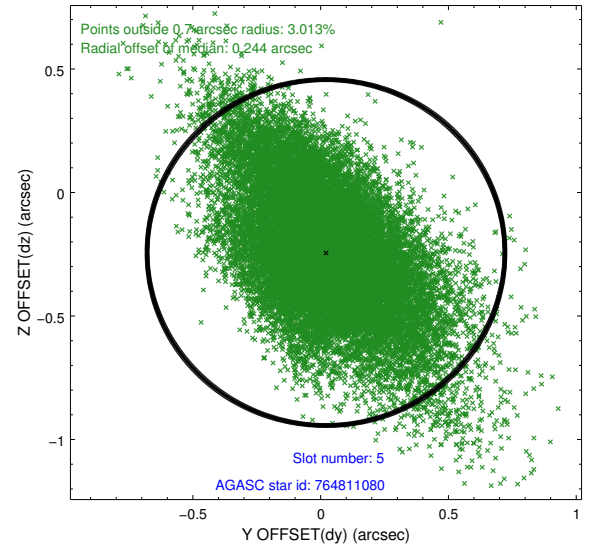
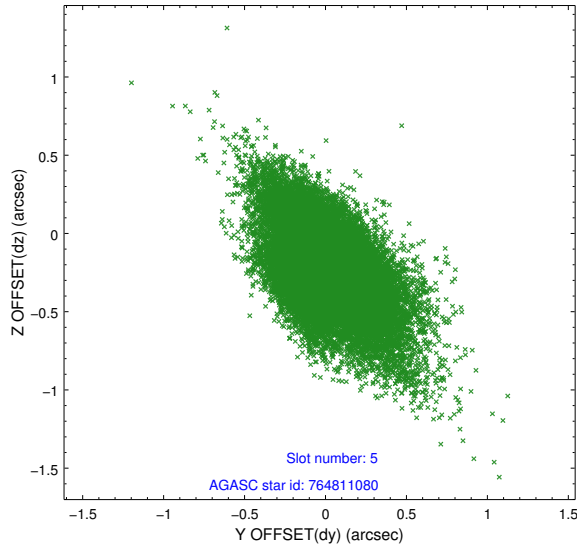
2.4.1 Slot 3



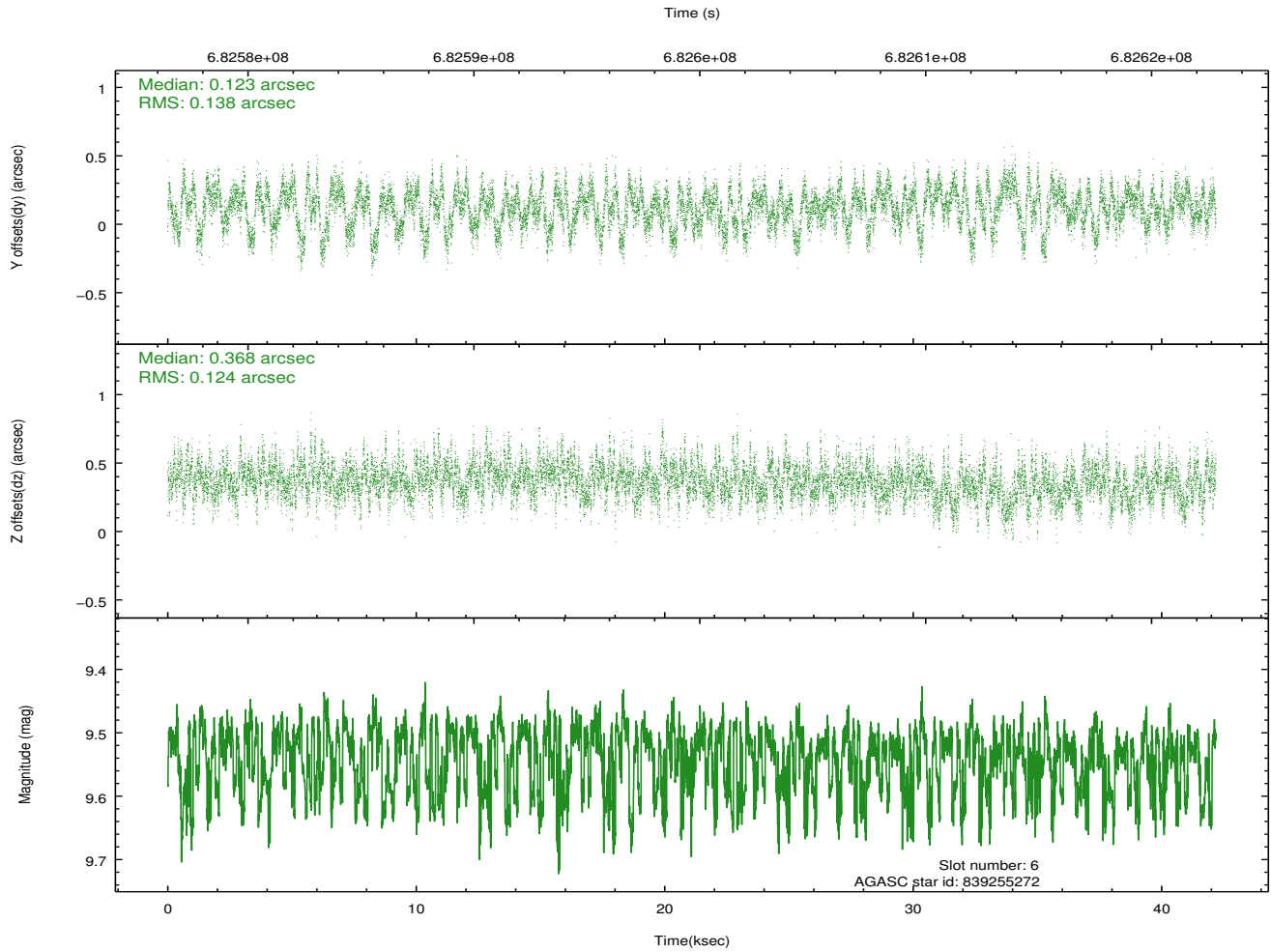
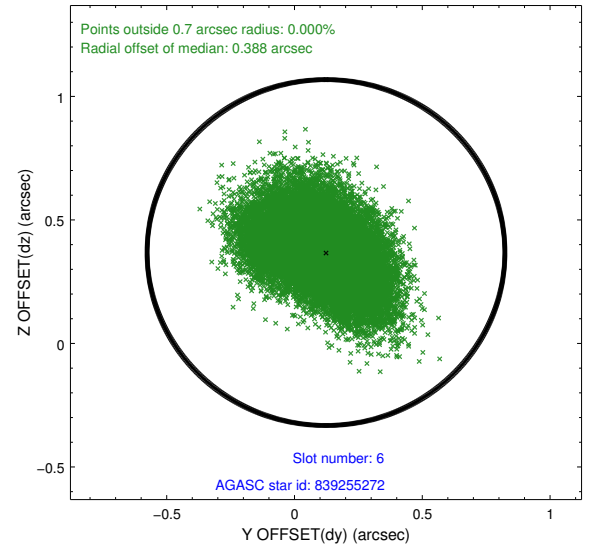
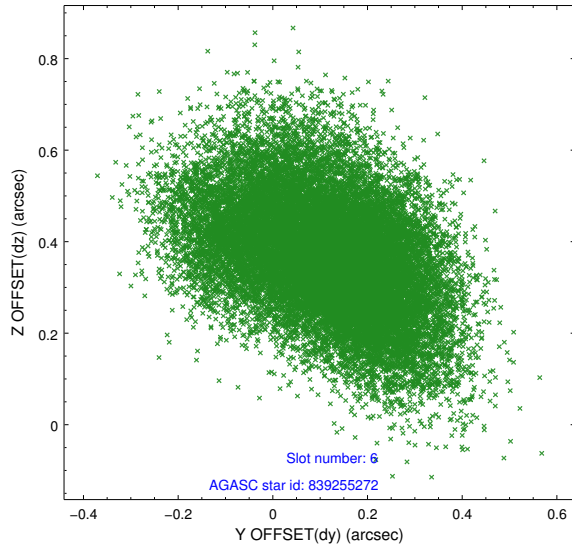
2.4.2 Slot 4



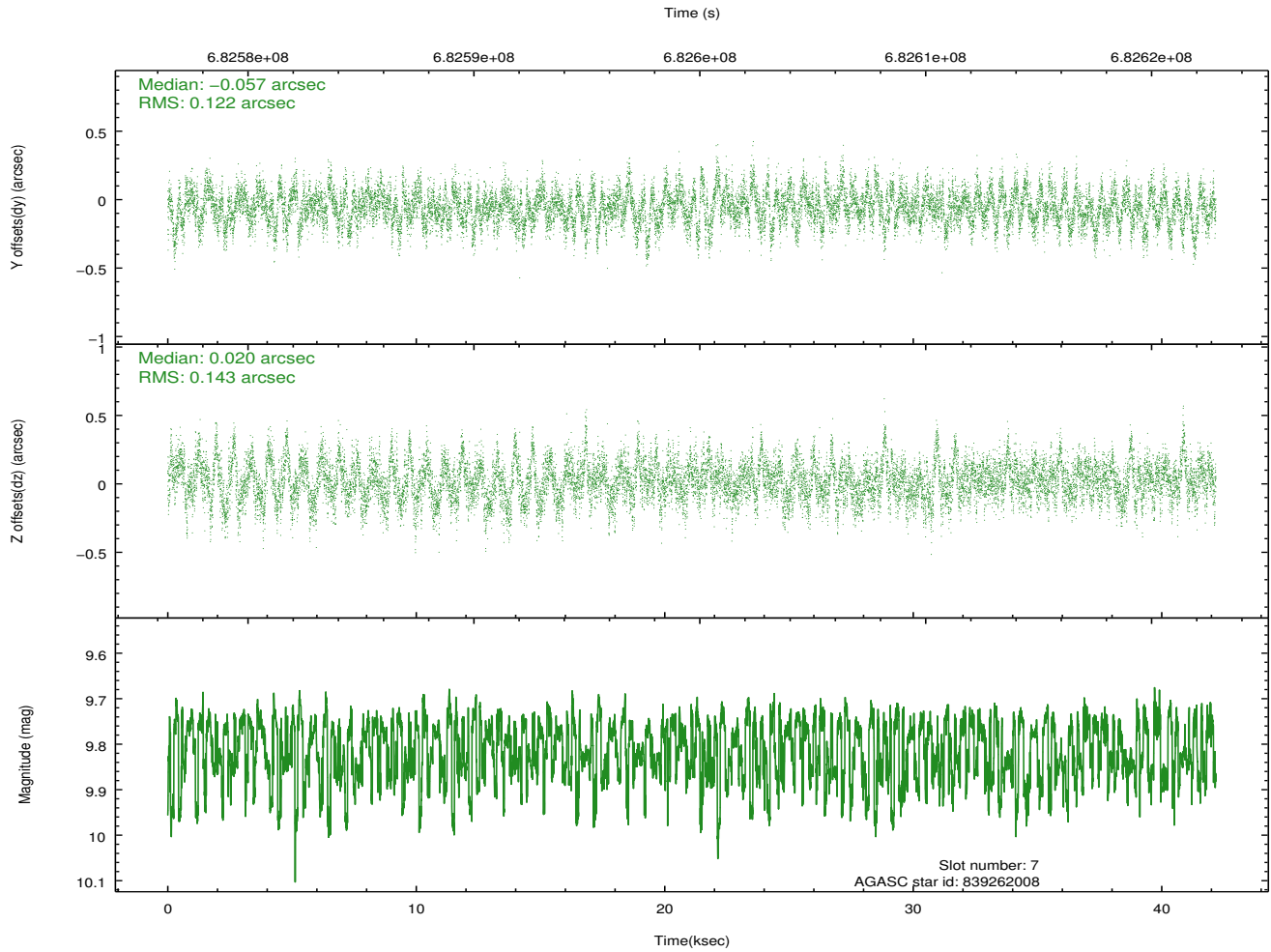
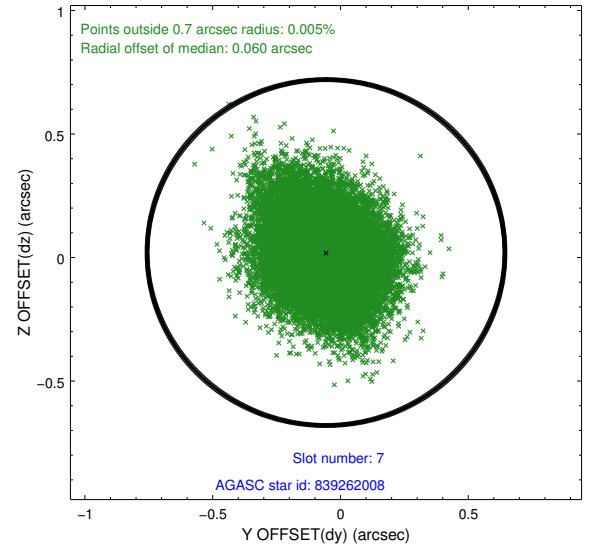
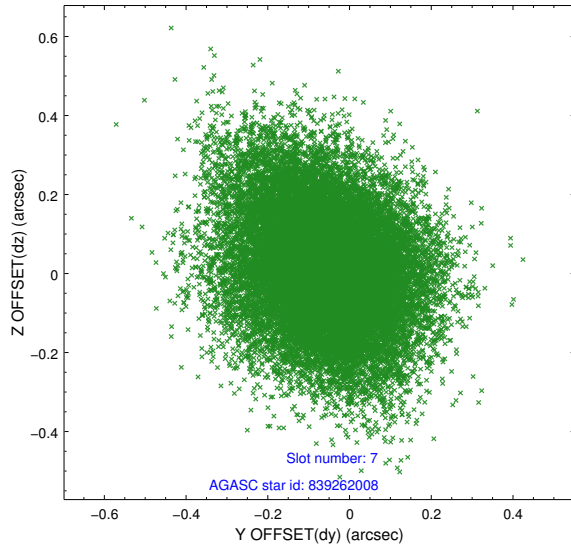
2.4.3 Slot 5



2.4.4 Slot 6

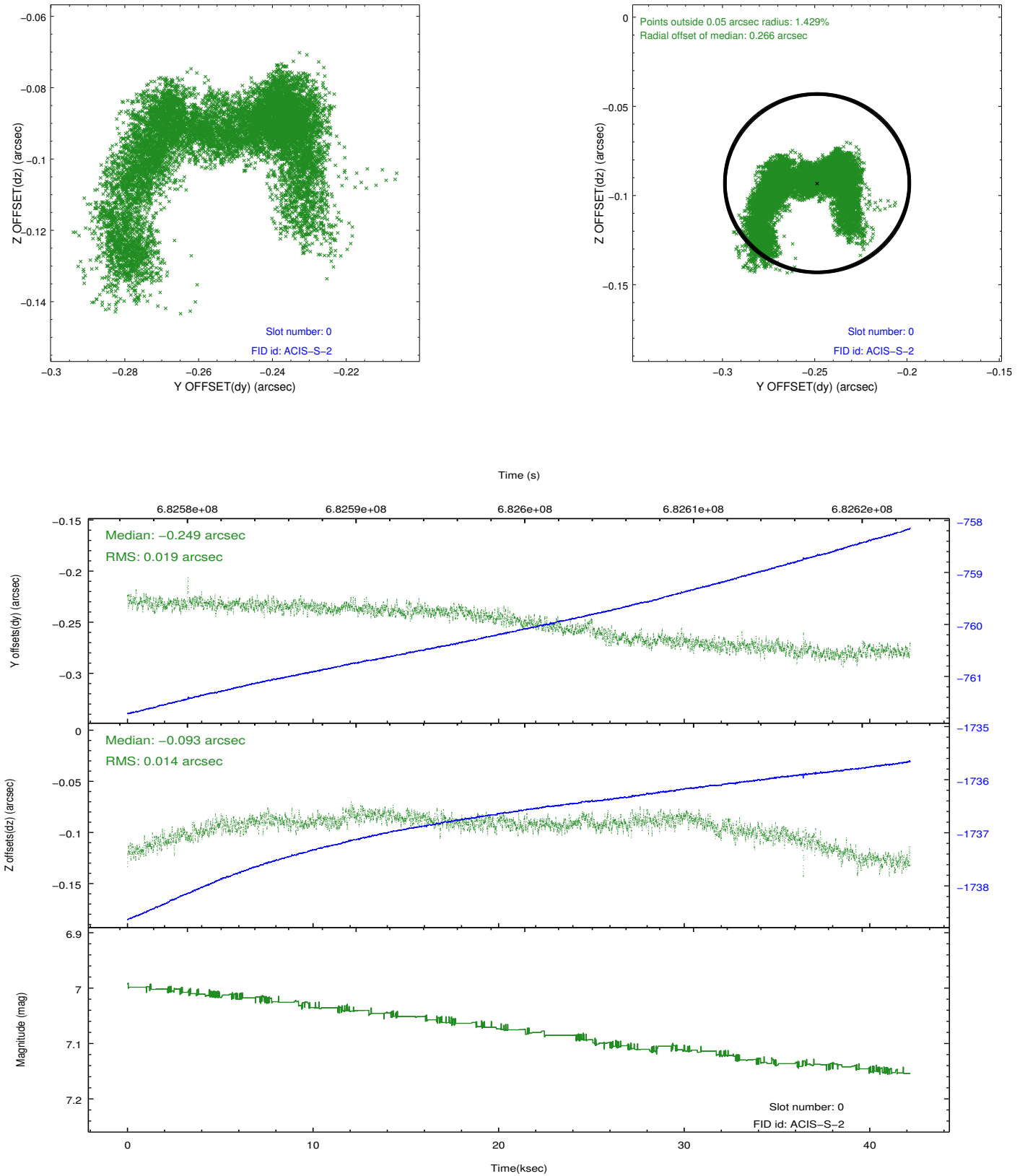


2.4.5 Slot 7

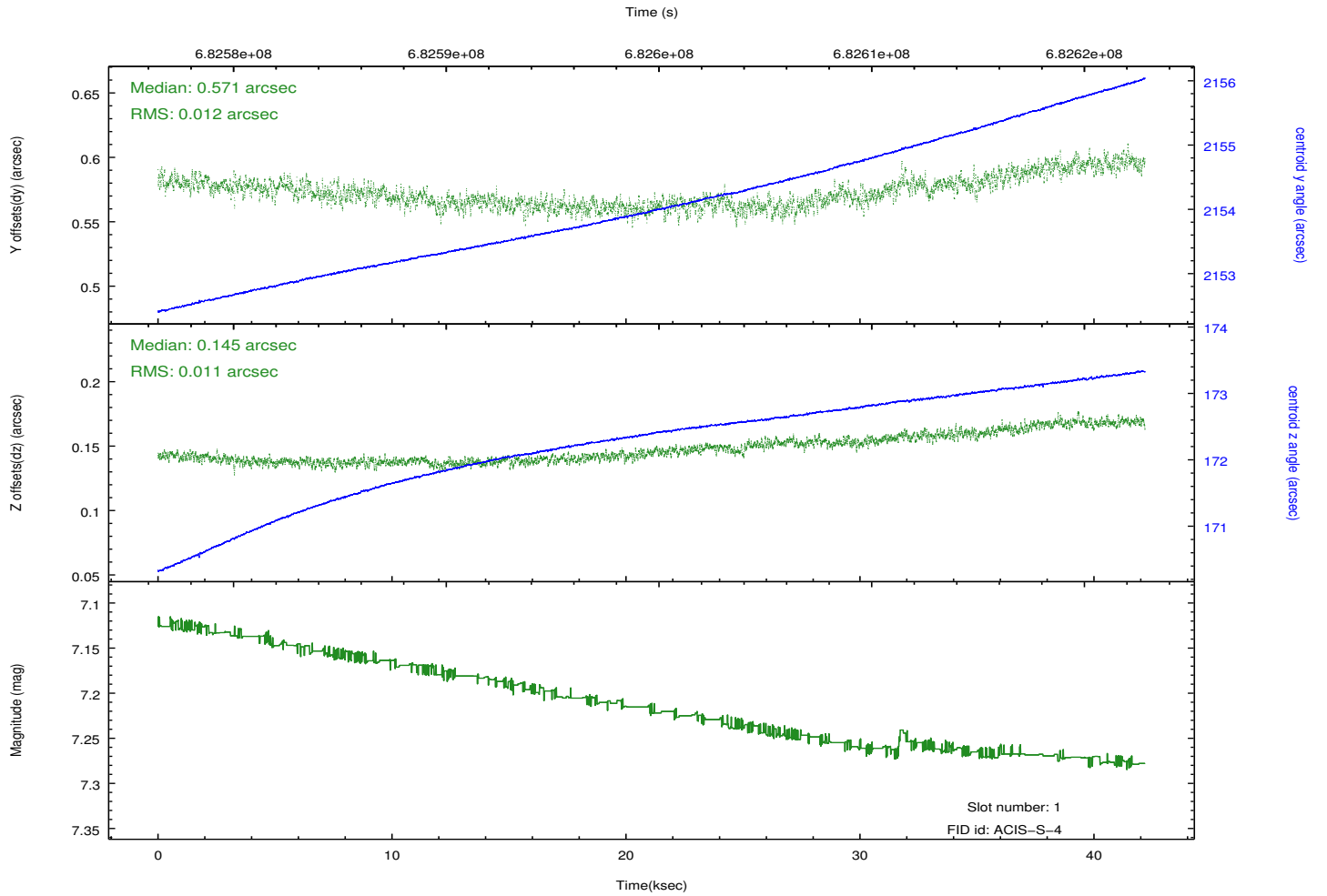
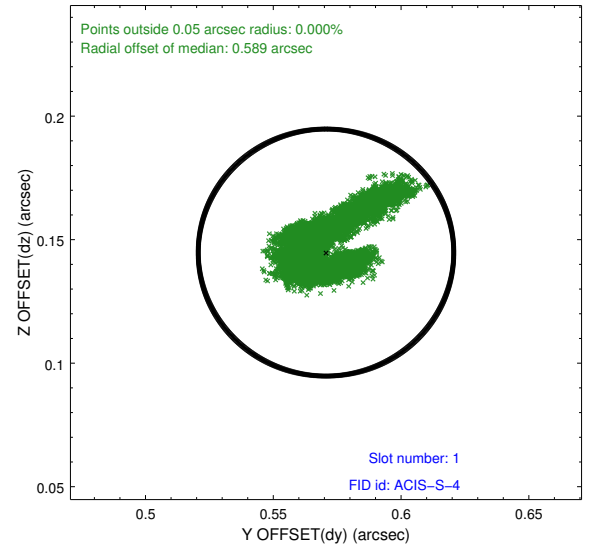
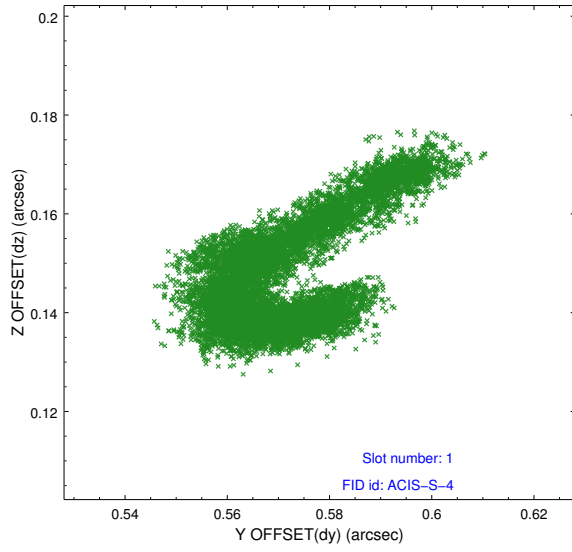


2.5 FID Slots

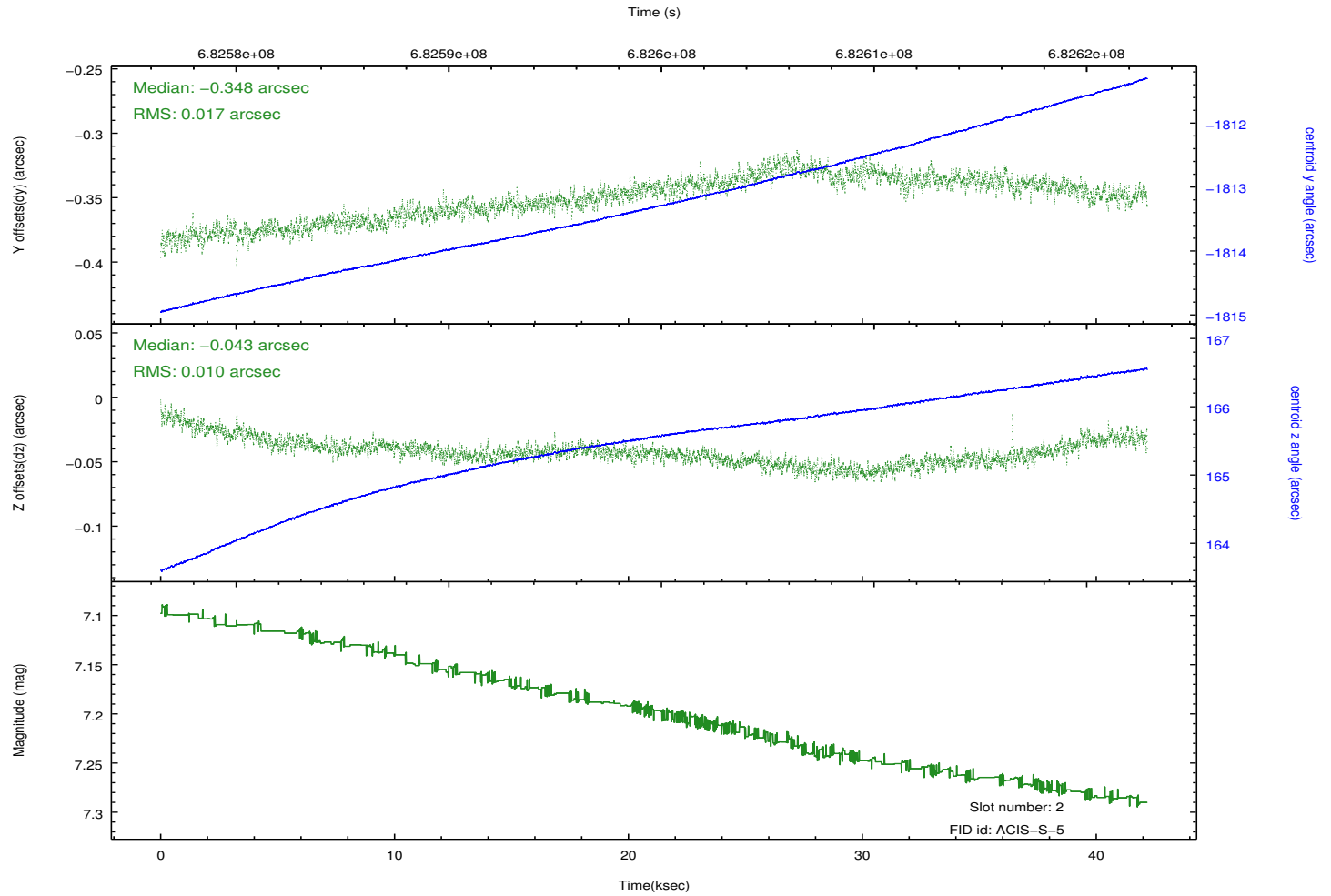
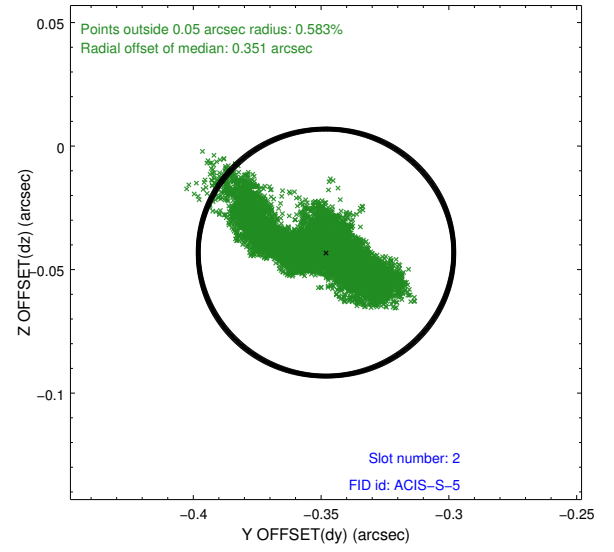
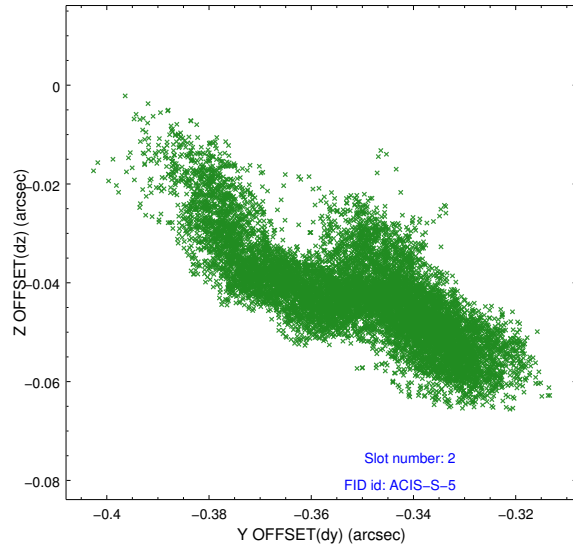
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.08.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	42.066551597953

A.2 Comments

One optional chip was dropped.