

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21445 - L2 Version 1
Chandra X-Ray Center

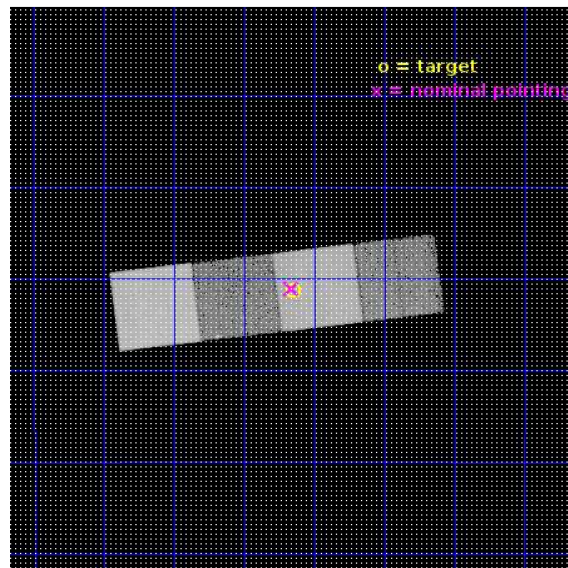
L2 Processing Date : Jan 2 2019

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1 Front

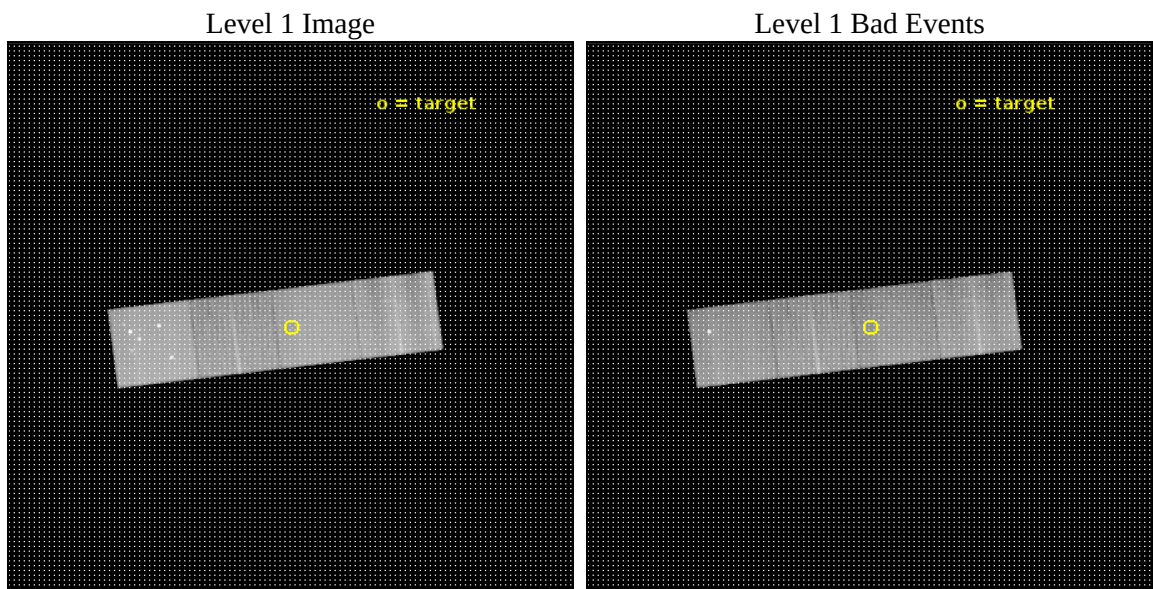
seq_num	703742	Sequence number
obs_id	21445	Observation id
title	Chandra Observations of Five New Quads and a Quint	Proposal title
observer	David Pooley	Principal investigator
object	PS J0630-1201	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	97.537917	Observer's specified target RA [deg]
dec_targ	-12.022222	Observer's specified target Dec [deg]
ra_nom	97.541294318502	Nominal RA [deg]
dec_nom	-12.018652481223	Nominal Dec [deg]
roll_nom	352.91938951026	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25020.100192547	Sum of GTIs [s]
livetime	24693.194164001	Livetime [s]
ontime5	25020.100192547	Sum of GTIs [s]
ontime6	25016.959142327	Sum of GTIs [s]
ontime7	25020.100192547	Sum of GTIs [s]
ontime8	25016.959142327	Sum of GTIs [s]
l2events	282504	Number of level 2 events



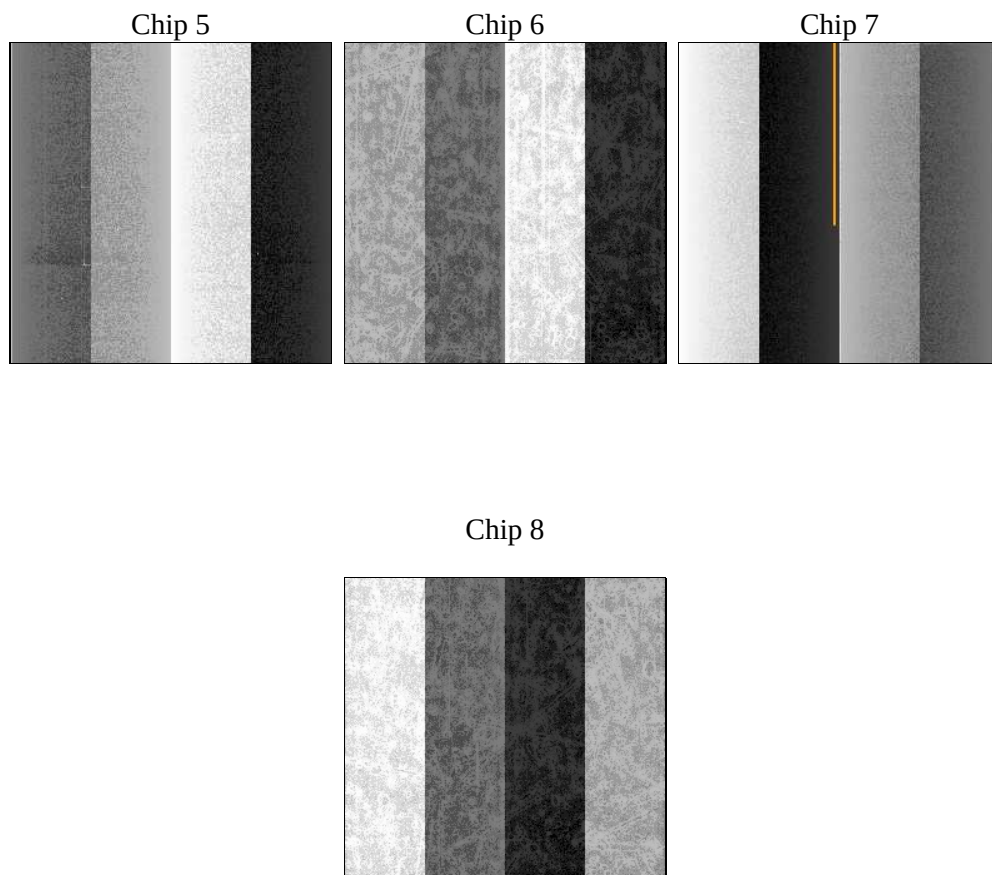
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24954.871000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	25020.100192547	Sum of GTIs [s]
caldsver	4.8.2	 	ontime5	25020.100192547	Sum of GTIs [s]
date	2019-01-02T15:43:43	Date and time of file creation	ontime6	25016.959142327	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	25020.100192547	Sum of GTIs [s]
			ontime8	25016.959142327	Sum of GTIs [s]
			l1events	1016050	Number of level 1 events

2.1.4 Events

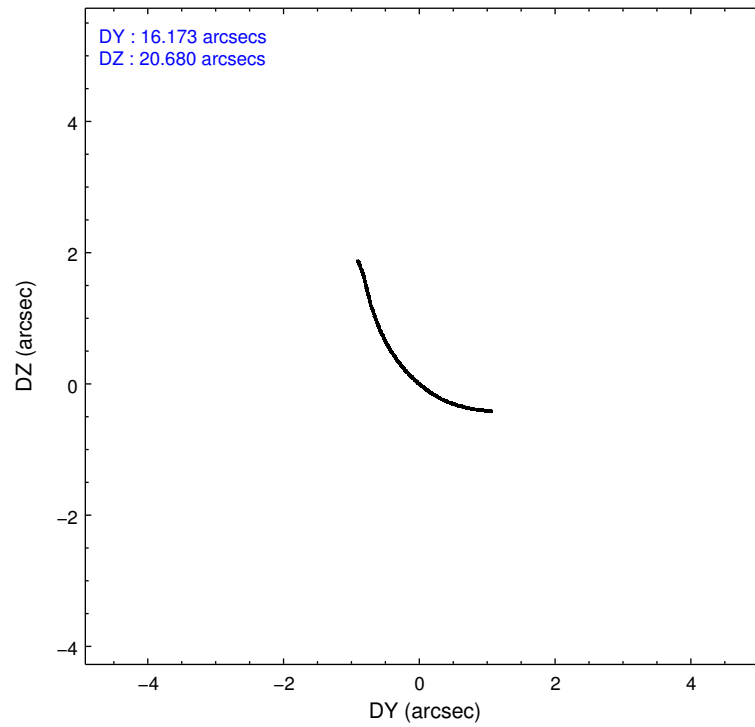
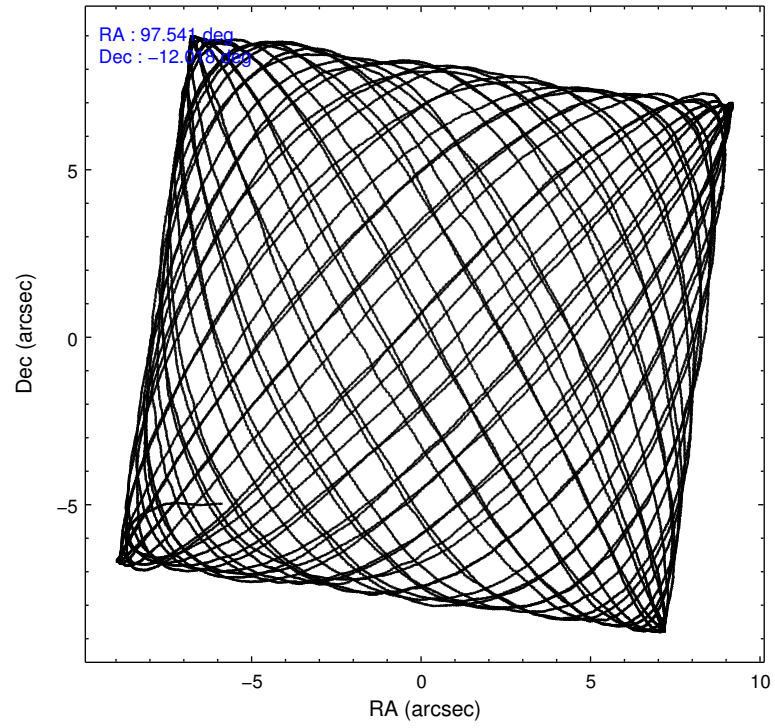
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	329238	189946	245479	251387
rejected events	165217	168246	139020	182456
rejected %	50%	88%	56%	72%

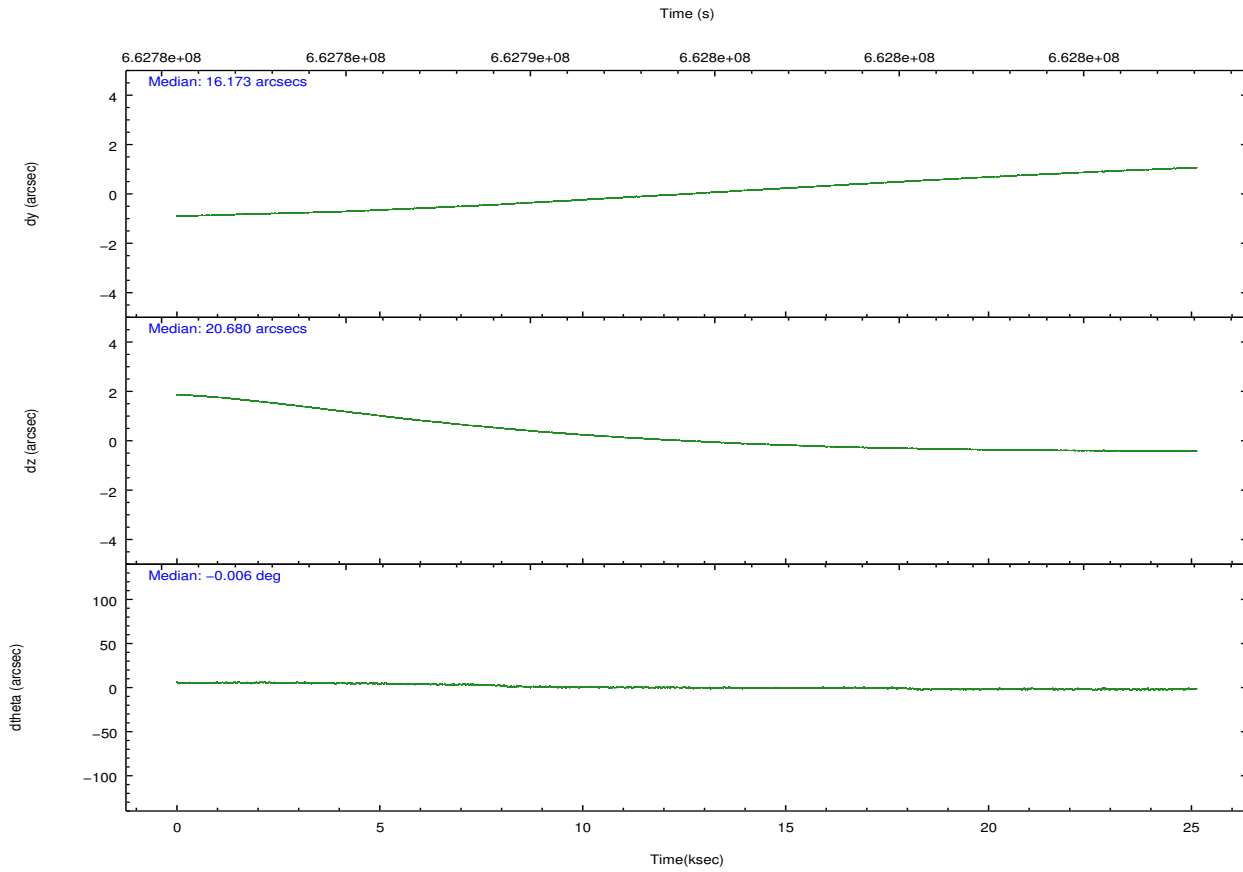
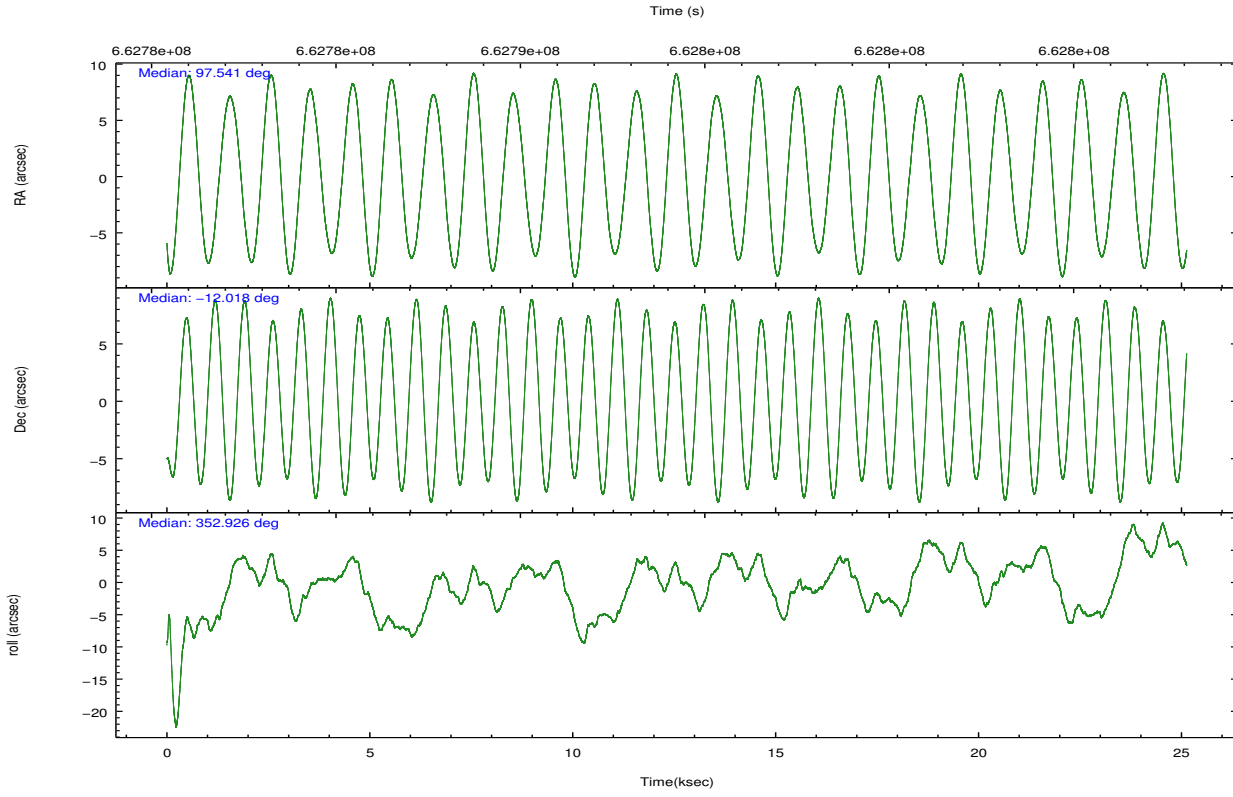
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	25873	7255	8924	19484
	7%	3%	3%	7%
grade 1 events	755	90	379	219
	0%	0%	0%	0%
grade 2 events	49133	5040	22832	16844
	14%	2%	9%	6%
grade 3 events	4614	2154	8387	7117
	1%	1%	3%	2%
grade 4 events	4394	2109	8236	6780
	1%	1%	3%	2%
grade 5 events	21048	8771	24392	13532
	6%	4%	9%	5%
grade 6 events	80052	5145	58097	18720
	24%	2%	23%	7%
grade 7 events	143369	159382	114232	168691
	43%	83%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	97.515605	97.54129431850178	CCD I2 on	N	N
[deg] Pointing Dec	-12.029661	-12.01865248122254	CCD I3 on	N	N
[deg] Pointing Roll	352.757414	352.9193895102635	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O3	Y
[s] Observation start time (MET)	662781853.184000	662780659.96768	CCD S5 on	O1	N
Observation start date	2019-01-02T02:03:04	2019-01-02T01:44:19	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	662806808.184000	662807291.00677	On-chip summing requested	N	N
Observation end date	2019-01-02T08:58:59	2019-01-02T09:08:11	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



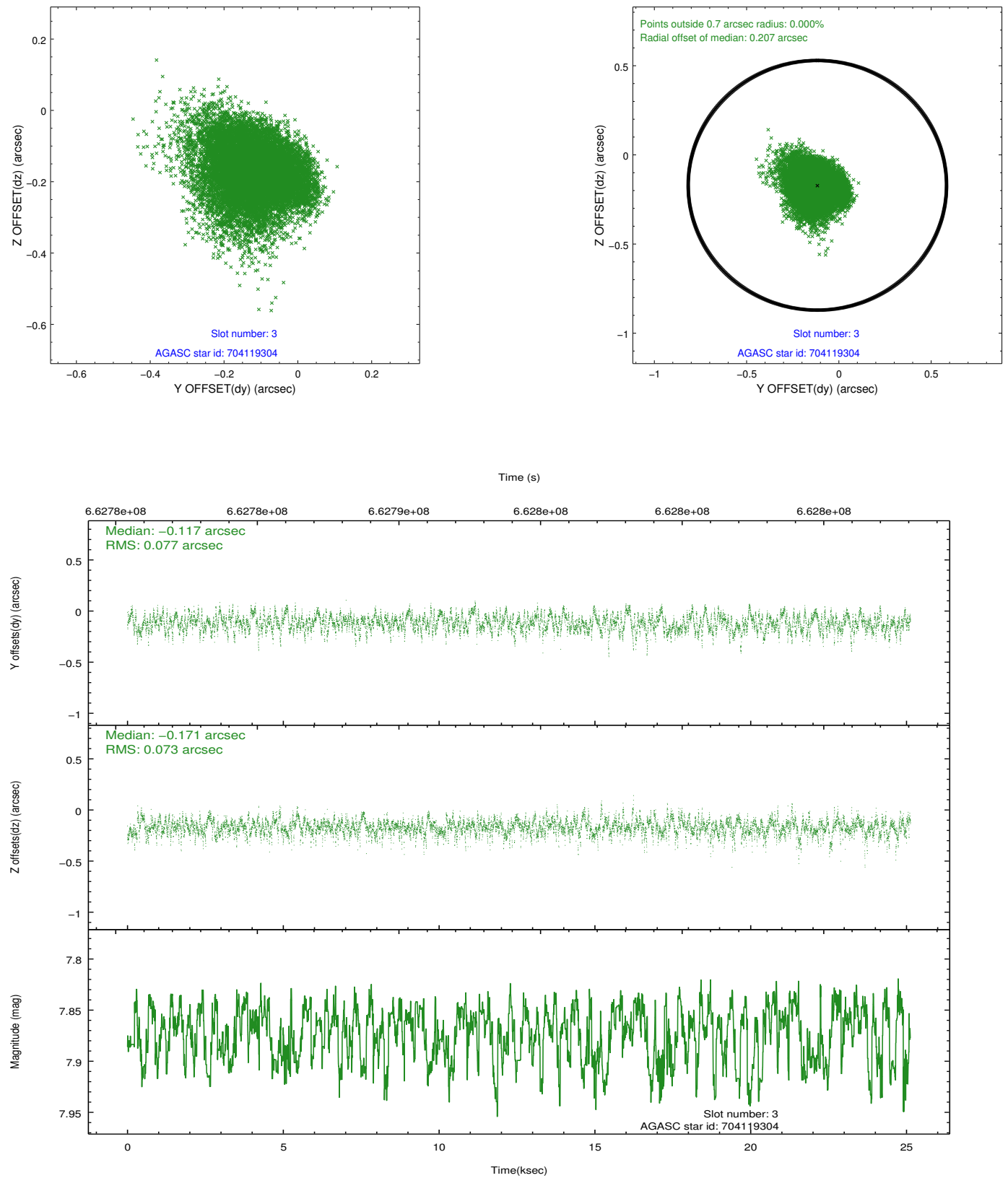


Slot Statistics

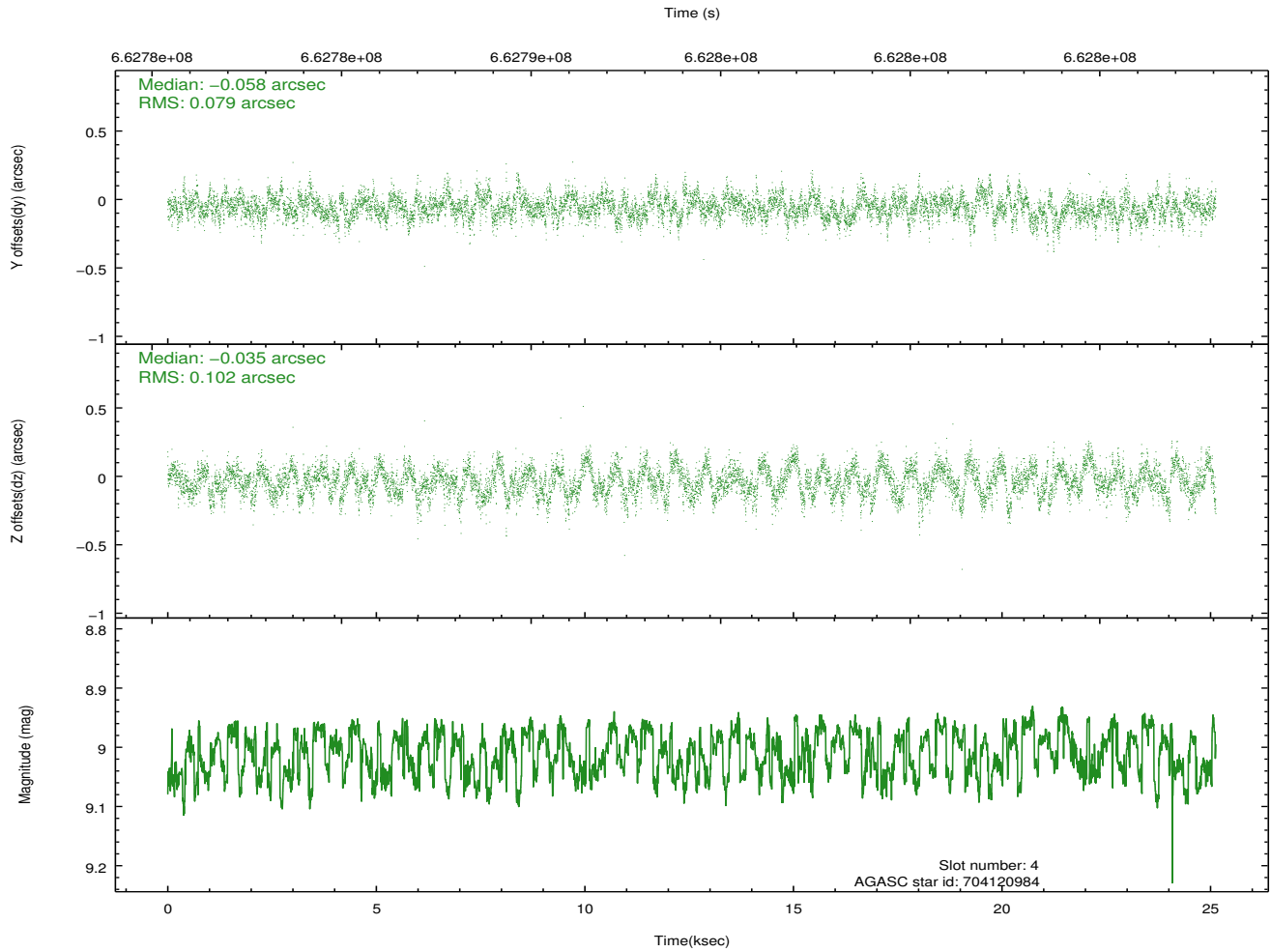
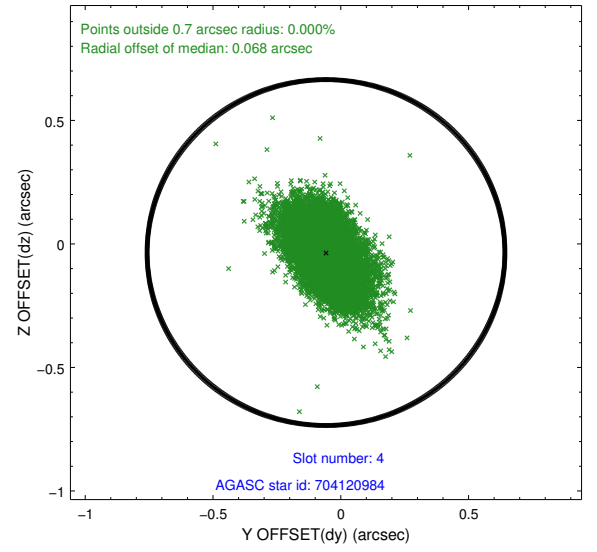
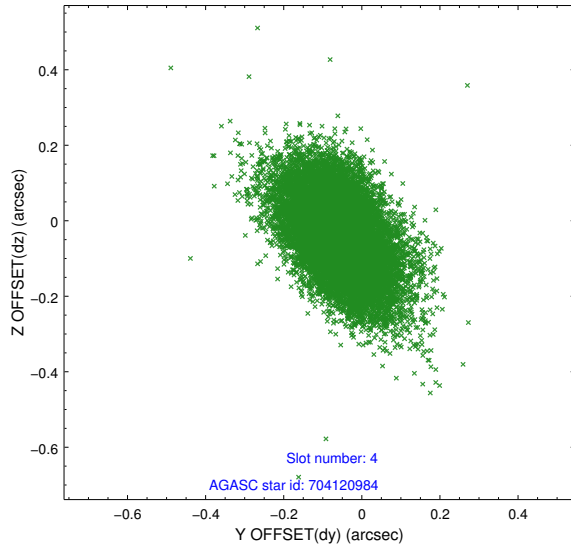
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.02	6127	1.000	-0.335	-0.201	0.013	0.023	0.000000	0.000000	-769.47	-1742
1	FID		ACIS-S-4	7.14	6129	1.000	0.755	0.215	0.020	0.029	0.000000	0.000000	2144.77	166
2	FID		ACIS-S-5	7.11	6129	1.000	-0.449	-0.005	0.022	0.035	0.000000	0.000000	-1822.35	159
3	GUIDE	used	704119304	7.87	12257	1.000	-0.117	-0.171	0.112	0.184	97.368045	-11.464188	-772.84	1952
4	GUIDE	used	704120984	9.01	12242	1.000	-0.058	-0.035	0.136	0.227	97.041684	-11.462481	-1915.67	1813
5	GUIDE	used	704130232	9.09	12251	1.000	0.185	0.210	0.144	0.231	97.139976	-11.946530	-1349.85	129
6	GUIDE	used	704132048	9.23	12243	1.000	0.353	0.504	0.159	0.295	97.419696	-12.196833	-256.98	-641
7	GUIDE	used	704255184	8.81	12251	1.000	-0.345	-0.524	0.175	0.307	98.192352	-11.531065	2142.23	2077

2.4 Star Slots

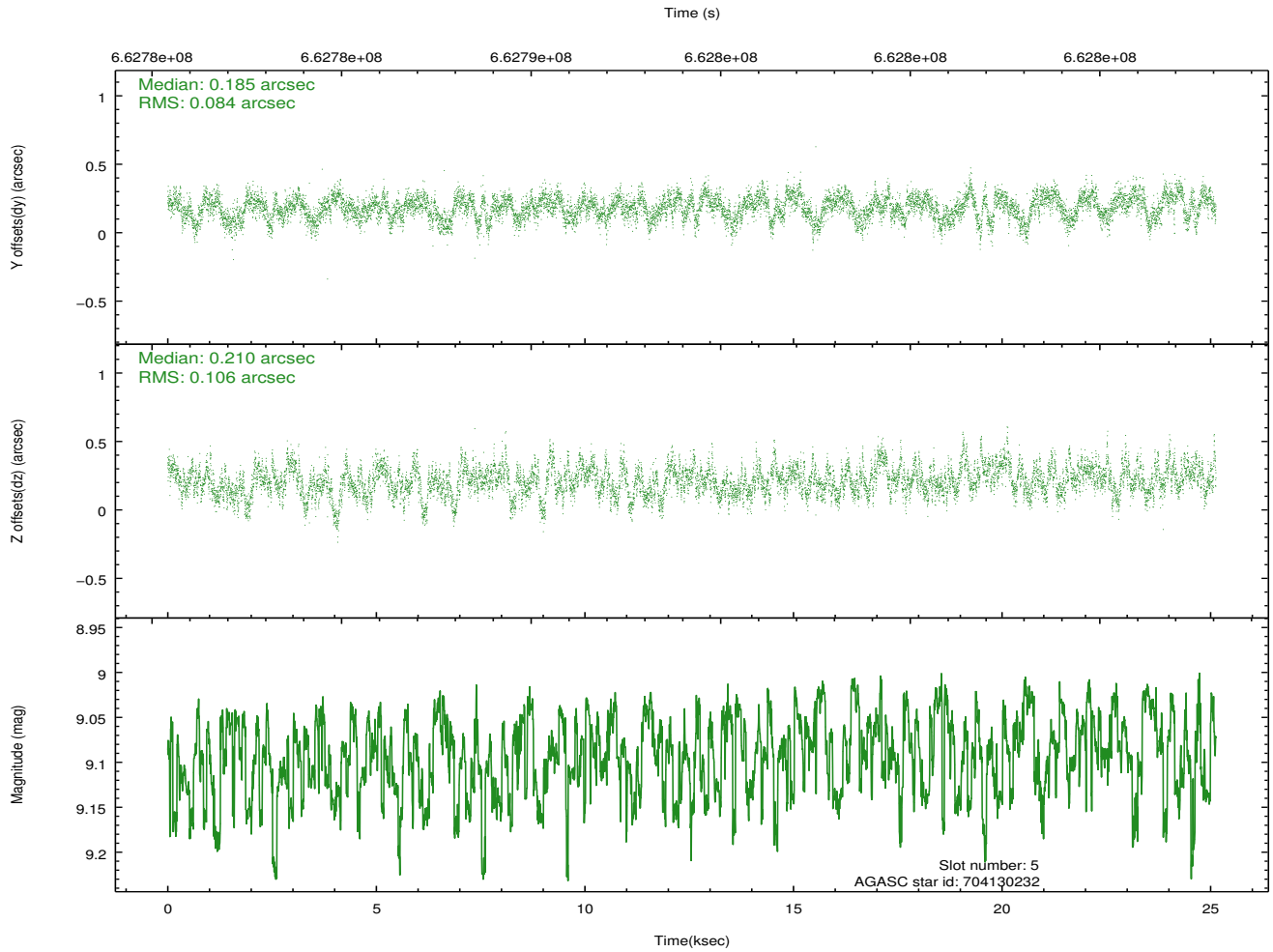
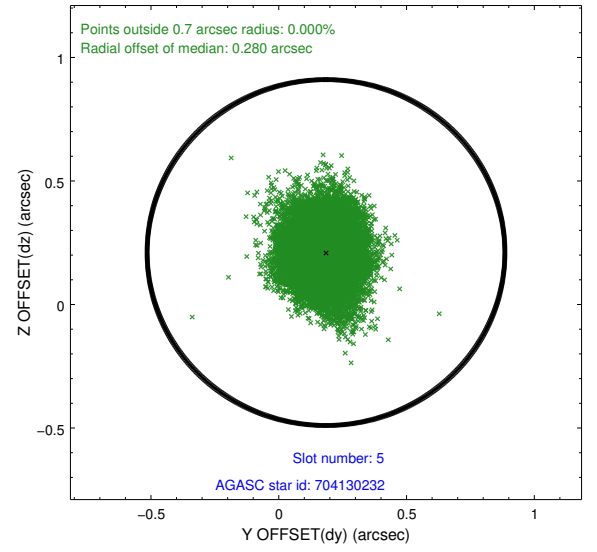
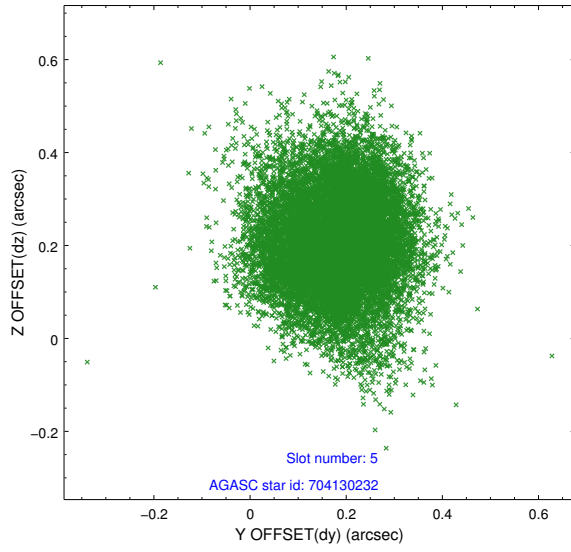
2.4.1 Slot 3



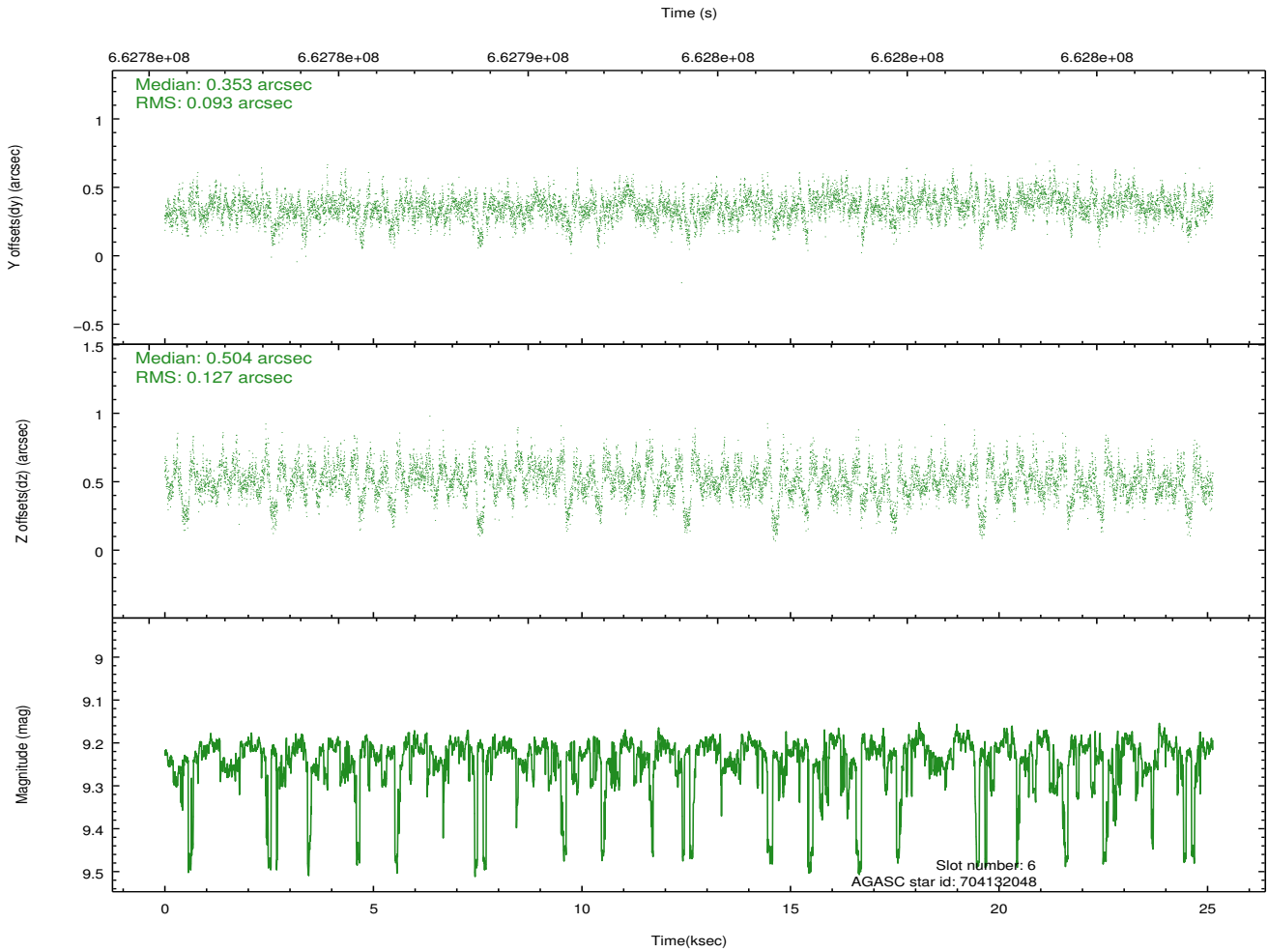
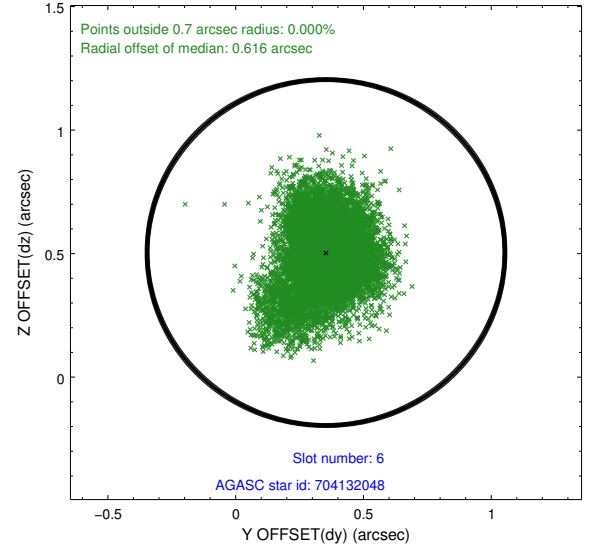
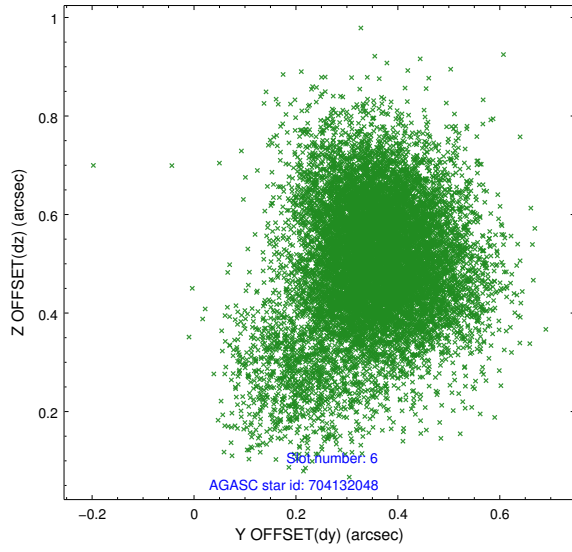
2.4.2 Slot 4



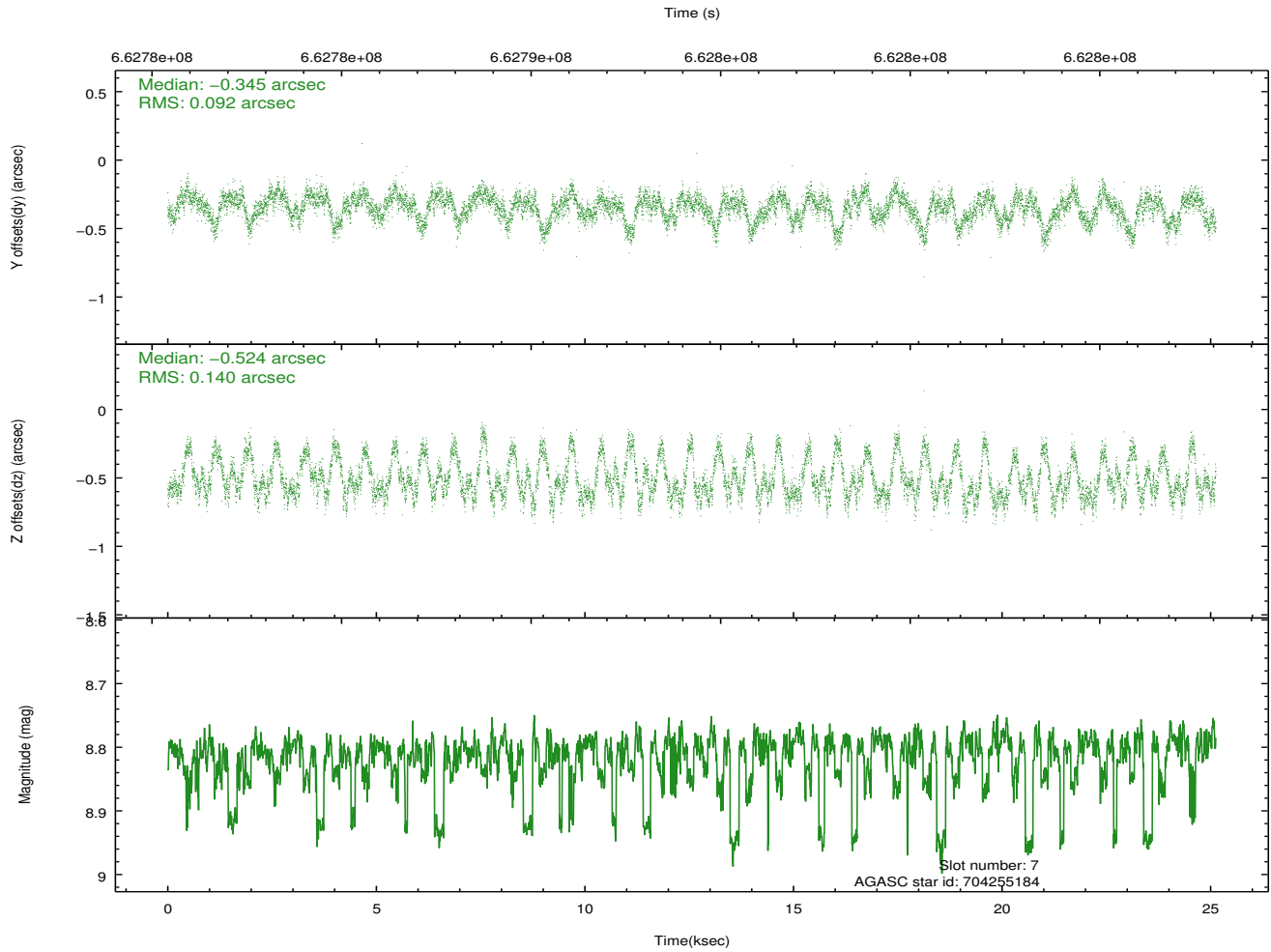
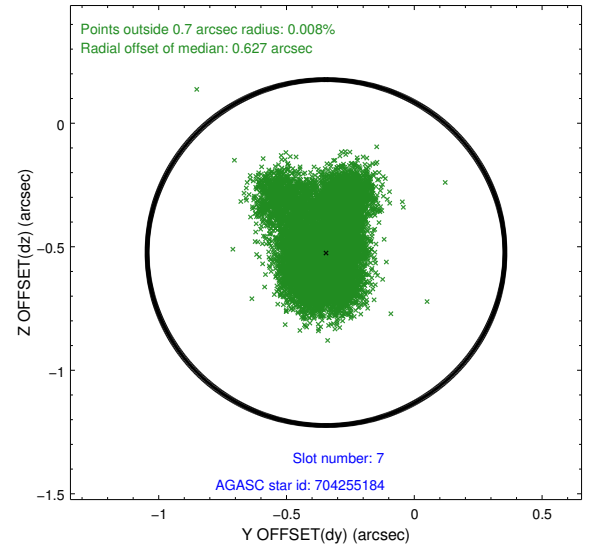
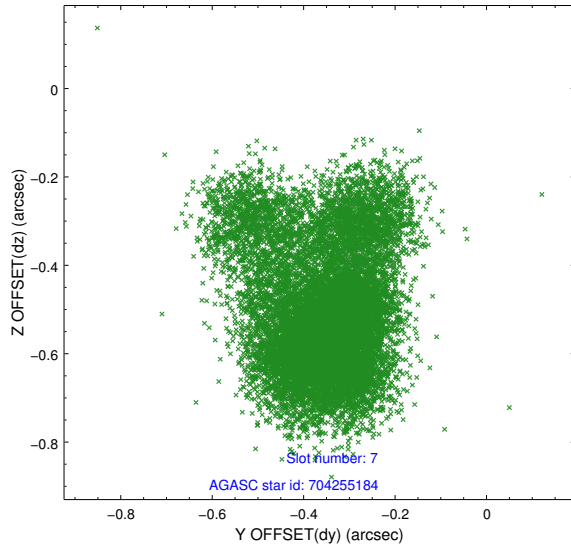
2.4.3 Slot 5



2.4.4 Slot 6

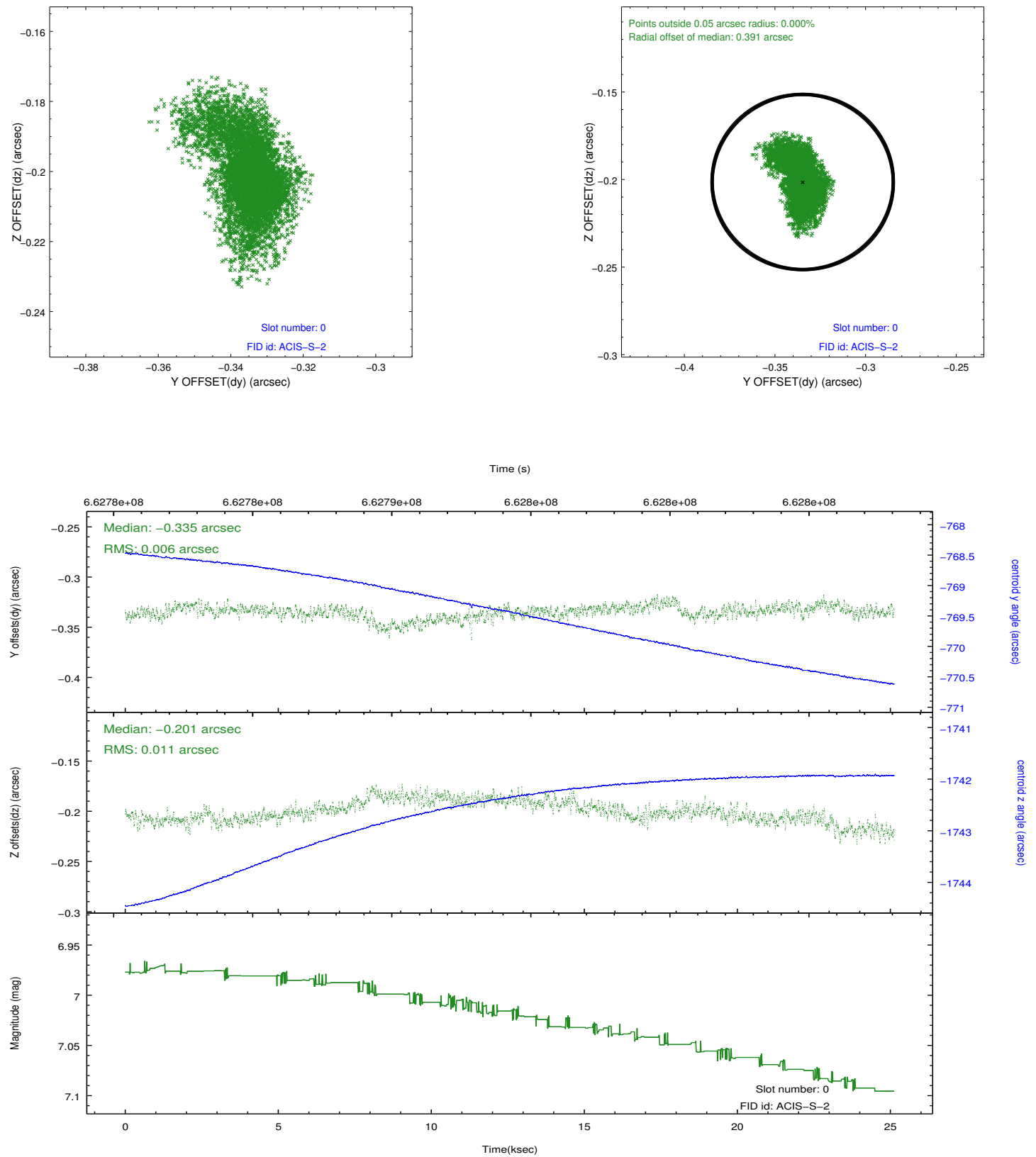


2.4.5 Slot 7

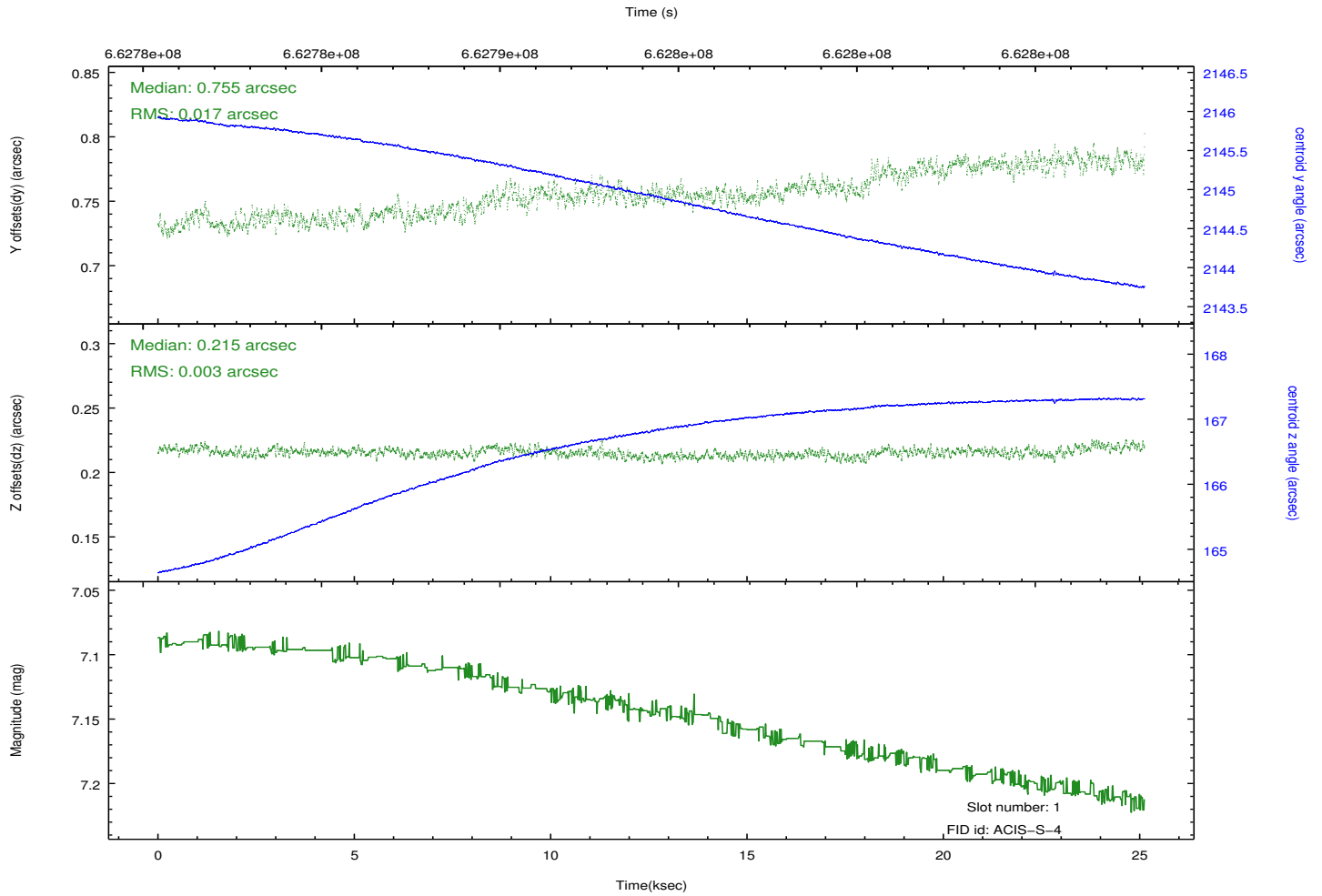
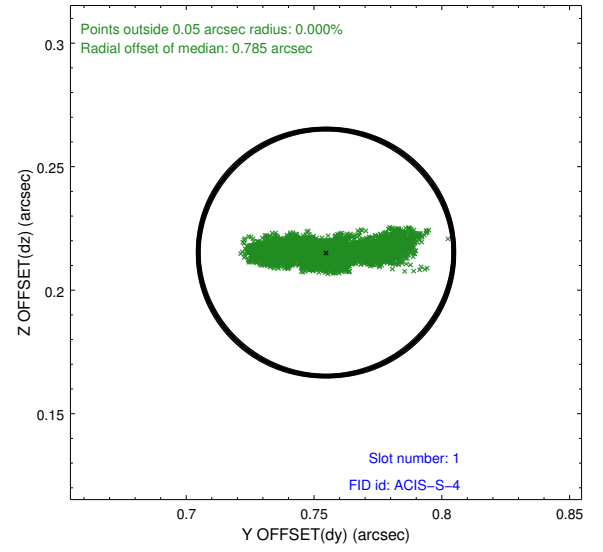
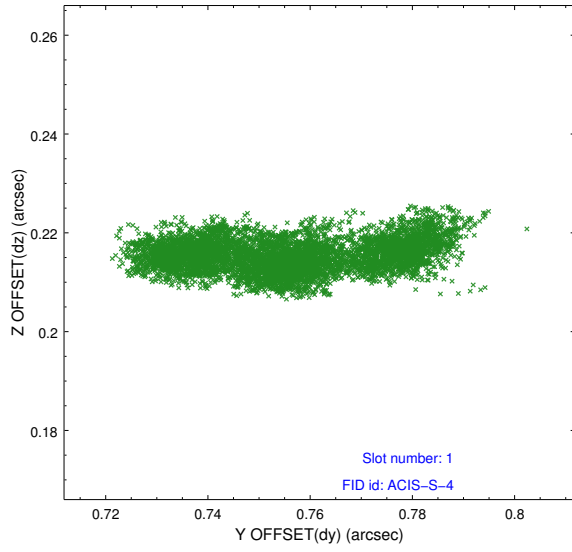


2.5 FID Slots

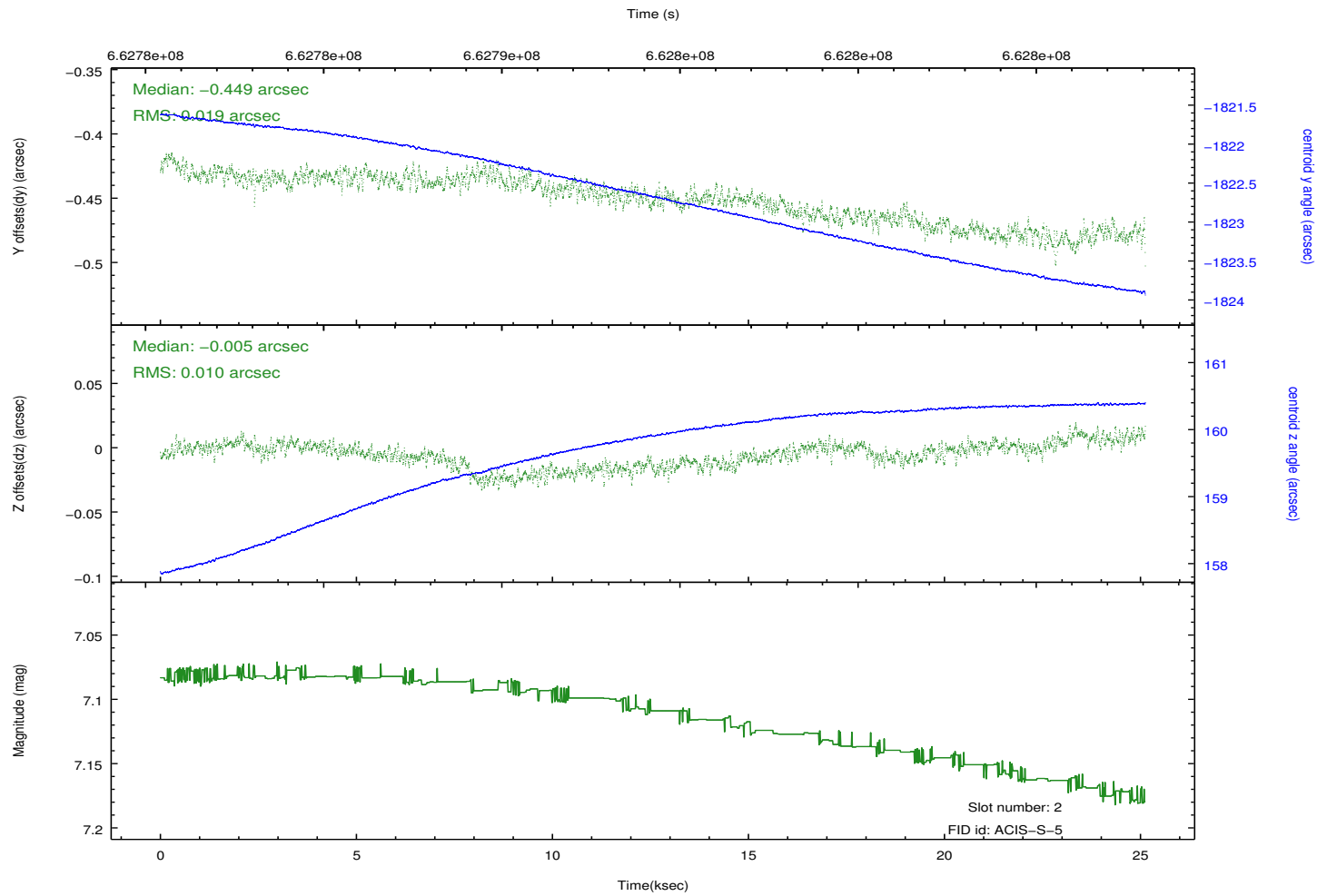
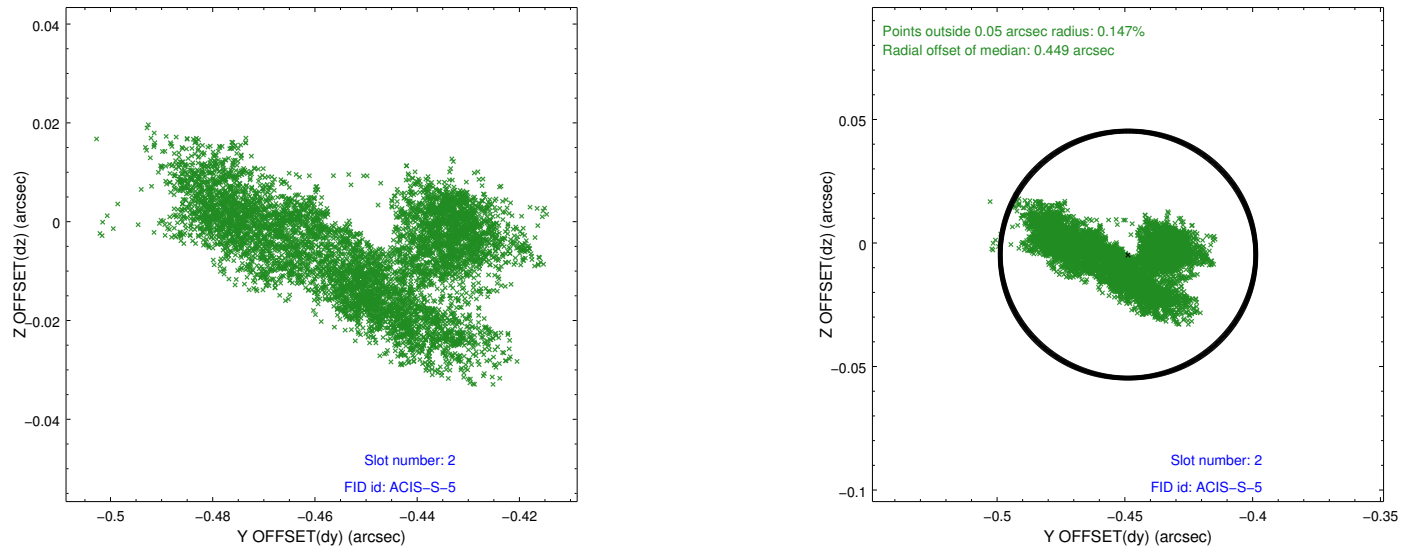
2.5.1 Slot 0



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)	2019.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.020100192547

A.2 Comments

One optional chip was dropped.