

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 19878 - L2 Version 1
Chandra X-Ray Center

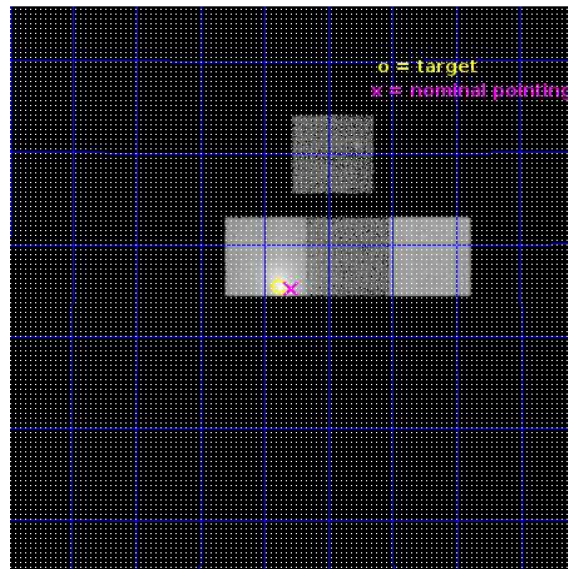
L2 Processing Date : Apr 19 2017

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1 Front

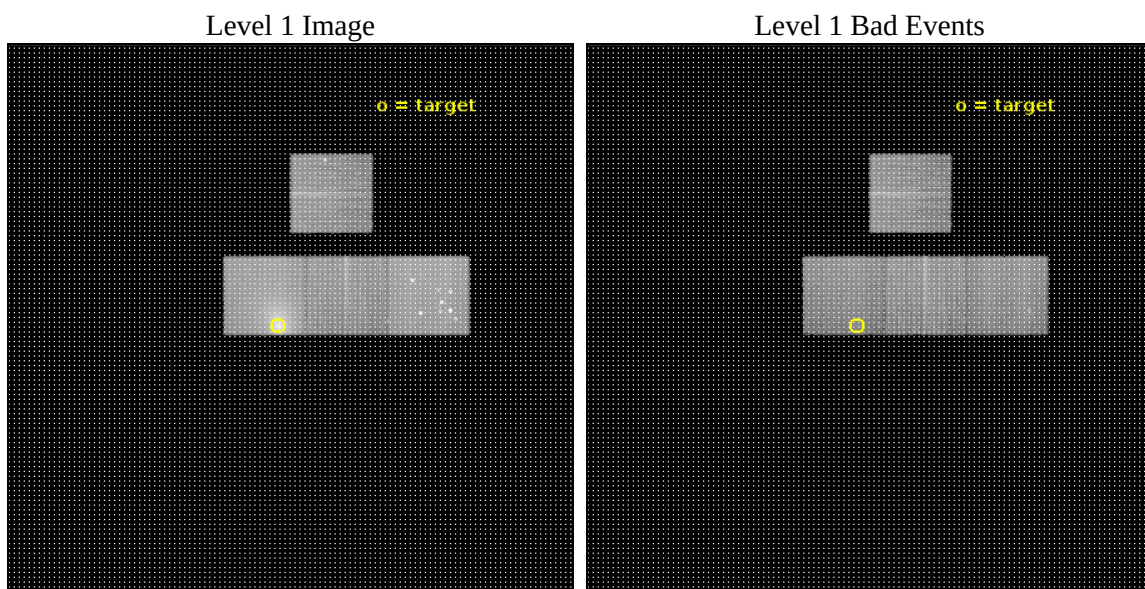
seq_num	890143	Sequence number
obs_id	19878	Observation id
title	AO-18 Calibration Observations of A1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.1972131057	Nominal RA [deg]
dec_nom	26.586861786122	Nominal Dec [deg]
roll_nom	179.8866633681	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19060.788608789	Sum of GTIs [s]
livetime	18811.745373267	Livetime [s]
ontime2	19057.524398565	Sum of GTIs [s]
ontime5	19060.747568846	Sum of GTIs [s]
ontime6	19060.706528783	Sum of GTIs [s]
ontime7	19060.788608789	Sum of GTIs [s]
l2events	317929	Number of level 2 events



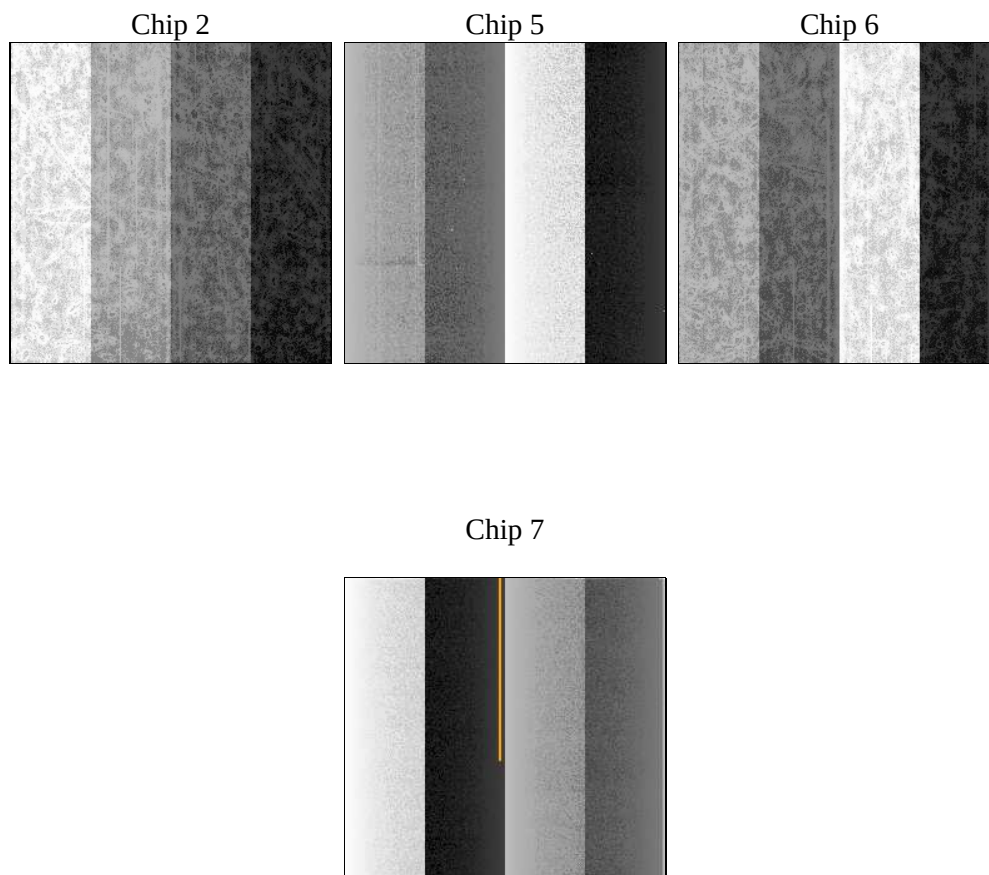
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	19060.788608789	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	19057.524398565	Sum of GTIs [s]
date	2017-04-19T17:53:00	Date and time of file creation	ontime5	19060.747568846	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	19060.706528783	Sum of GTIs [s]
			ontime7	19060.788608789	Sum of GTIs [s]
			l1events	851029	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 5	ccd 6	ccd 7
level 1 events	147964	253636	156363	293066
rejected events	131598	117318	134624	104251
rejected %	88%	46%	86%	35%

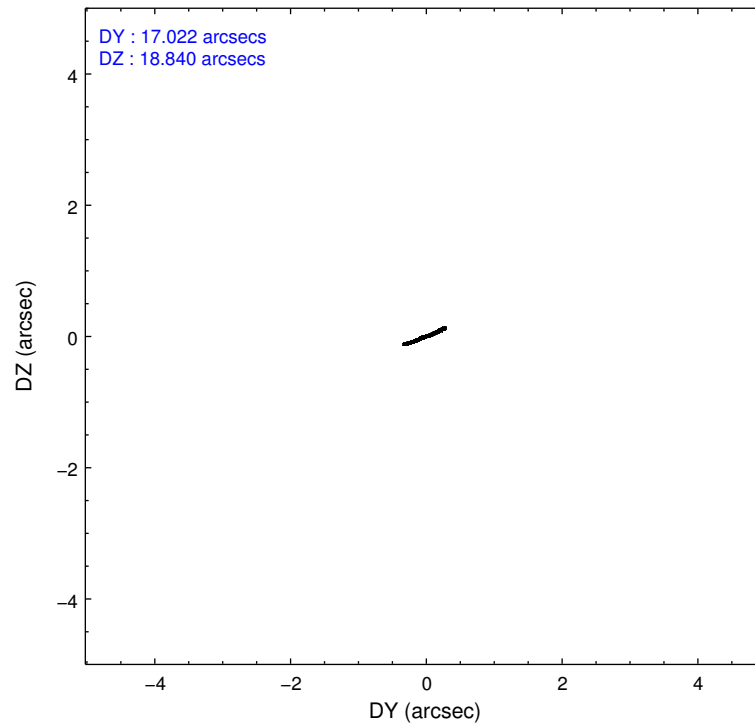
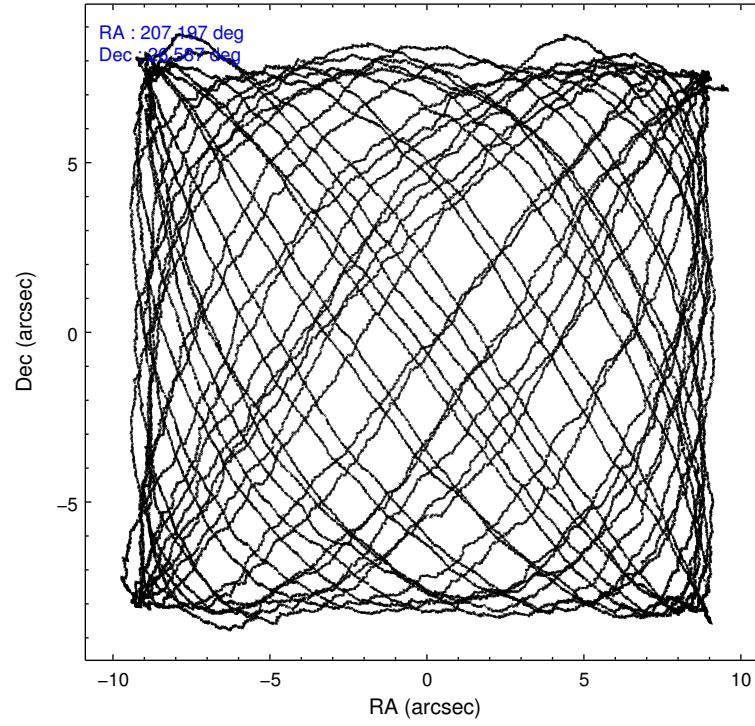
	ccd 2	ccd 5	ccd 6	ccd 7
grade 0 events	7232	29330	9548	34042
	4%	11%	6%	11%
grade 1 events	133	1107	113	282
	0%	0%	0%	0%
grade 2 events	3323	41271	4598	46225
	2%	16%	2%	15%
grade 3 events	1489	3322	1712	18669
	1%	1%	1%	6%
grade 4 events	1478	2971	1710	18074
	0%	1%	1%	6%
grade 5 events	5141	14272	6112	17260
	3%	5%	3%	5%
grade 6 events	2849	59477	4176	71869
	1%	23%	2%	24%
grade 7 events	126319	101886	128394	86645
	85%	40%	82%	29%

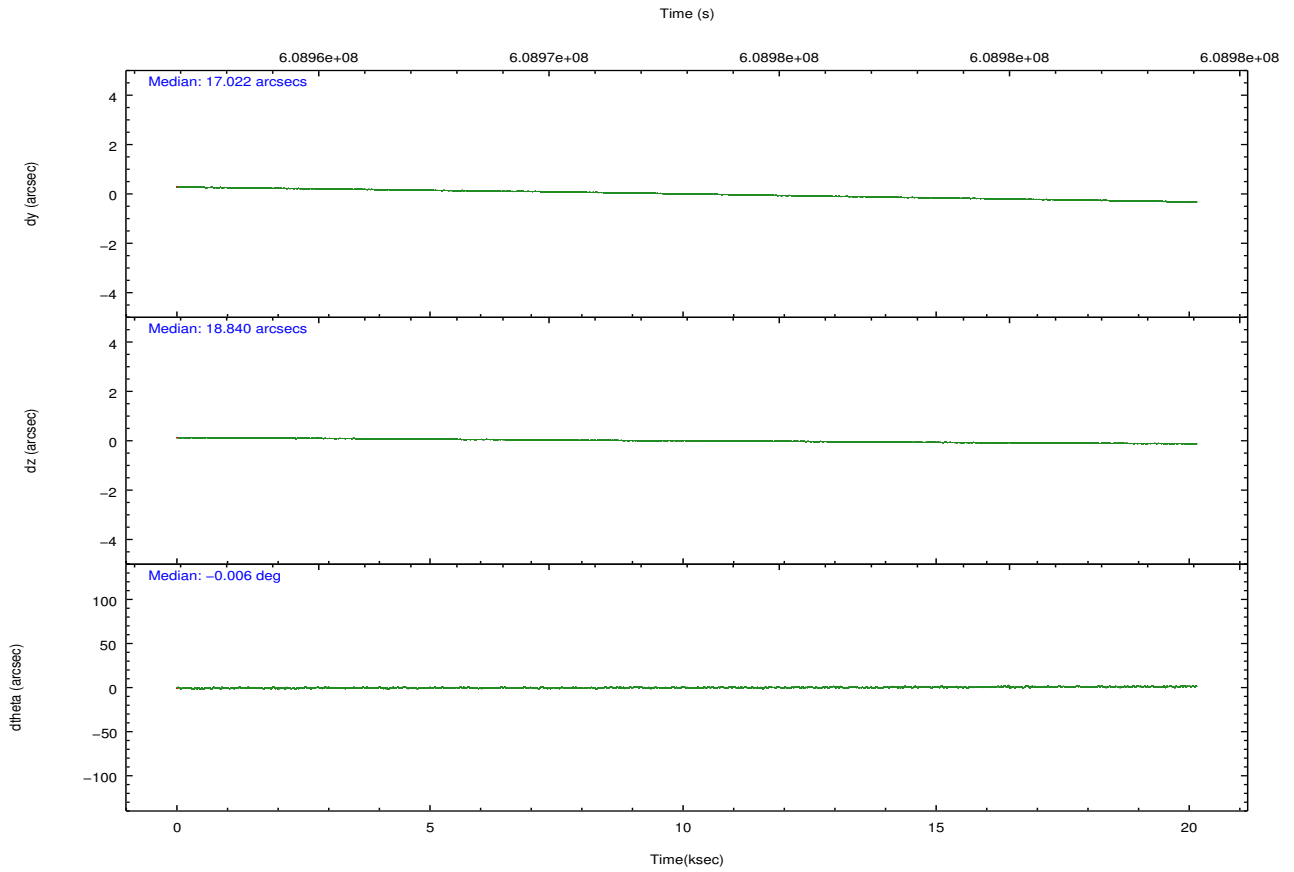
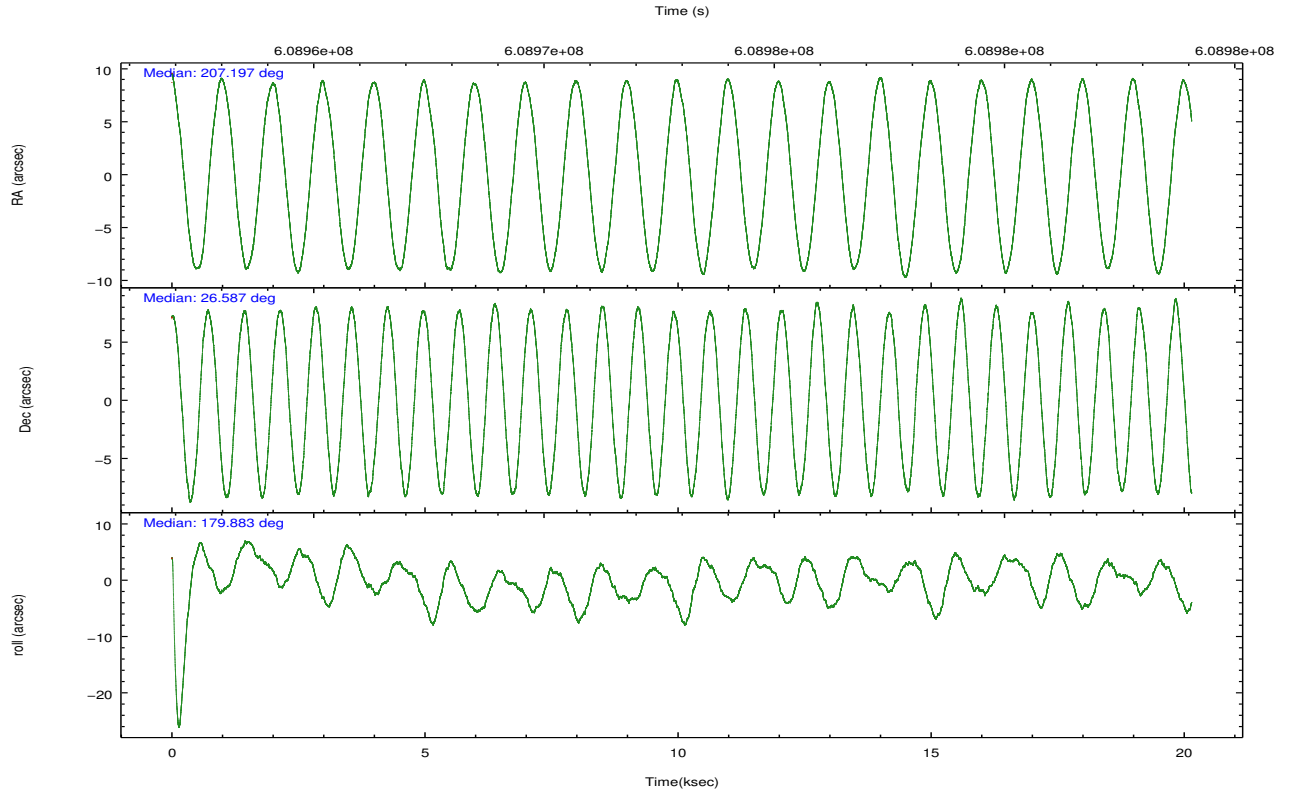
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-2567	ACIS-2567
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	207.223601	207.197213105697
[deg] Pointing Dec	26.600852	26.58686178612166
[deg] Pointing Roll	179.718202	179.8866633680962
[s] Window start time (MET)	607392069.184000	607392069.184000
[s] Window stop time (MET)	609897669.184000	609897669.184000
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-180.332523	-180.3266934278832
[mm] SIM translation stage offset	-9.800000000000001	-9.805829155124599
[s] Observation start time (MET)	608964065.184000	608962702.18024
Observation start date	2017-04-19T04:39:56	2017-04-19T04:18:22
[s] Observation end time (MET)	608983065.184000	608983926.85648
Observation end date	2017-04-19T09:56:36	2017-04-19T10:12:06
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	Y	Y
CCD I3 on	O1	N
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	N	N
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



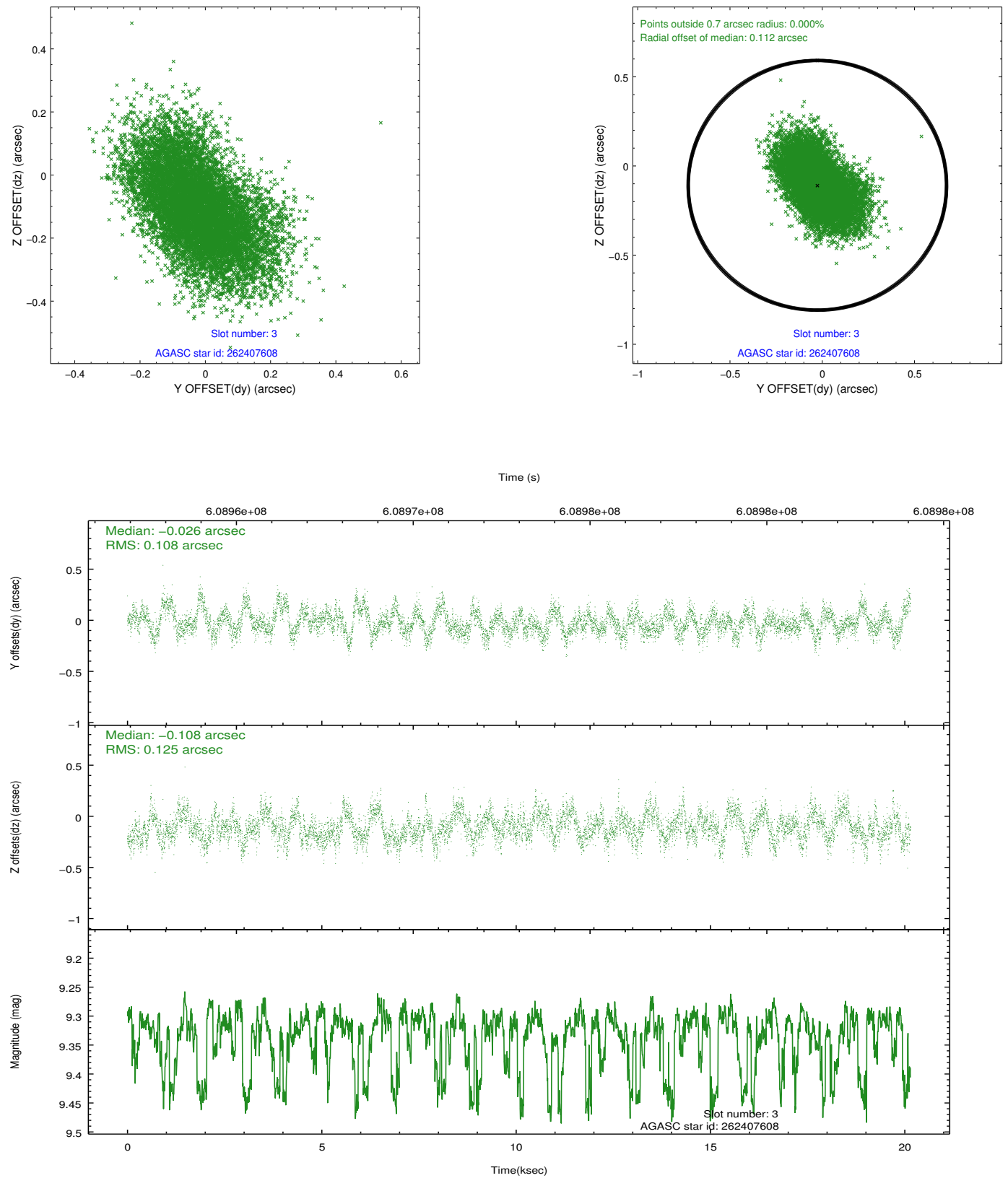


Slot Statistics

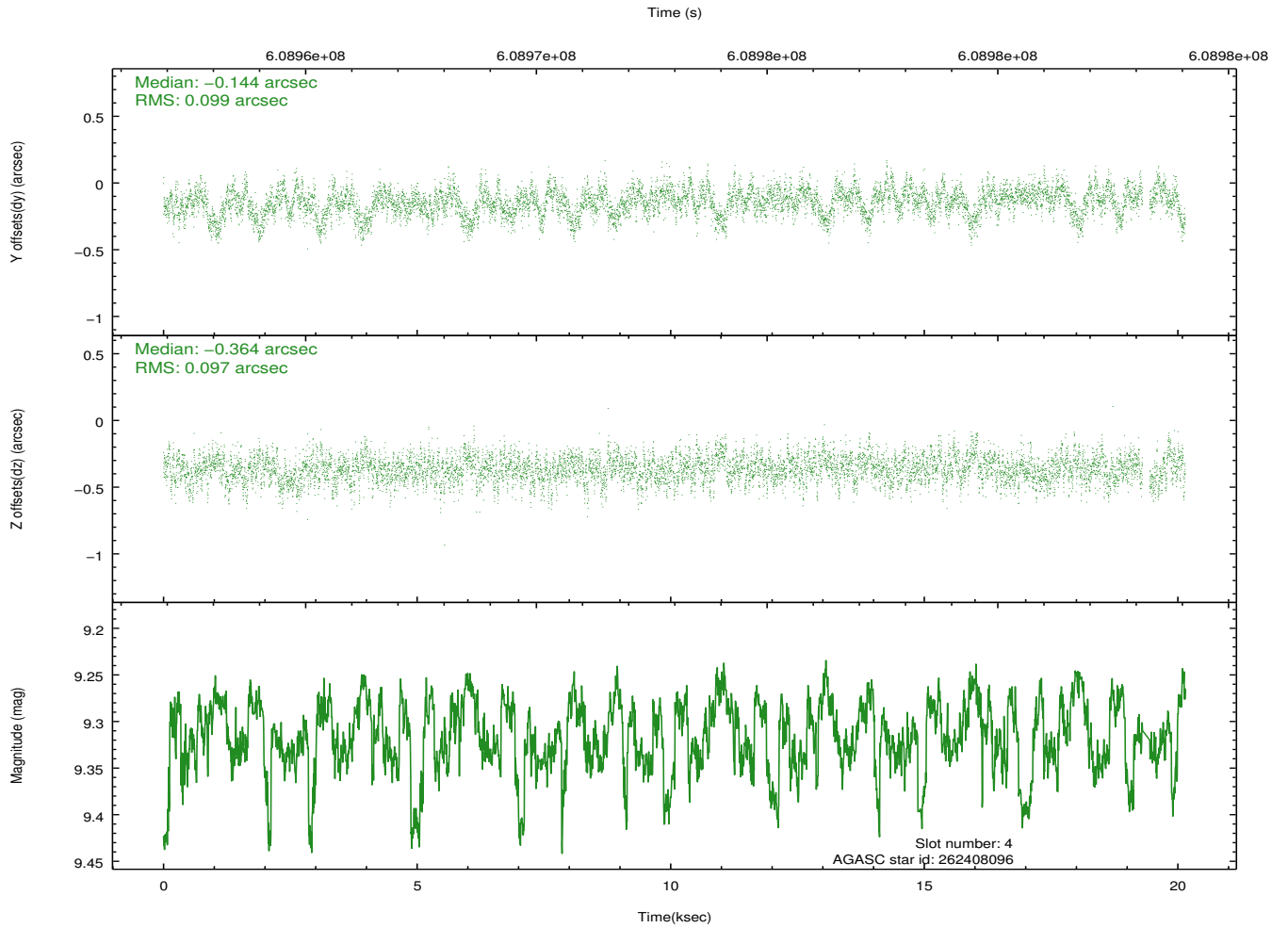
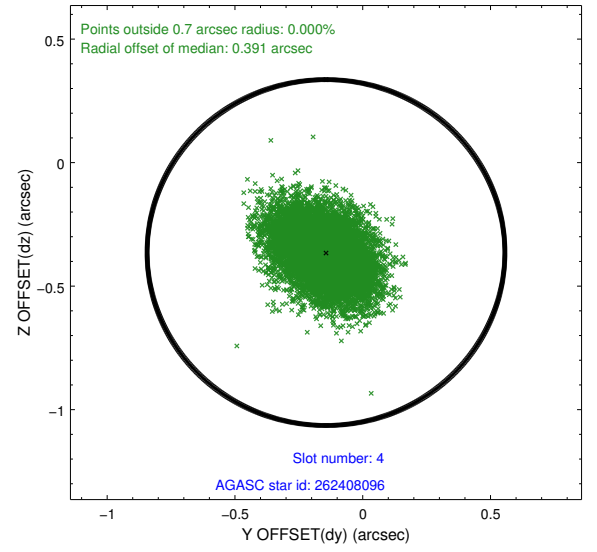
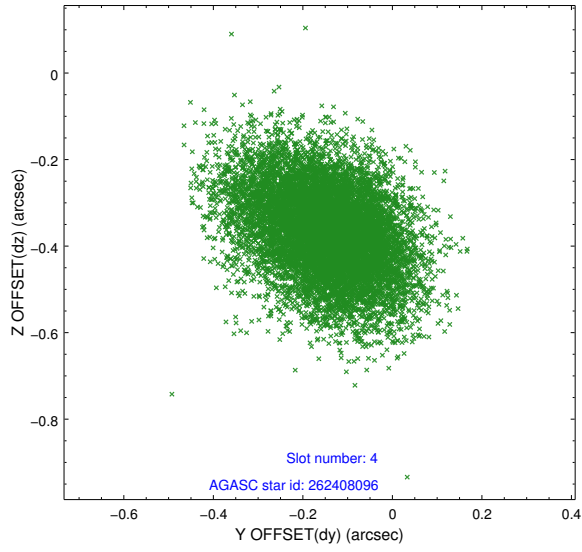
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.17	4915	0.134	0.229	0.012	0.017	0.000000	0.000000	926.89	-1937.63
1	FID		ACIS-S-2	7.07	4915	-0.318	-0.271	0.008	0.012	0.000000	0.000000	-769.37	-1942.94
2	FID		ACIS-S-6	7.40	4913	0.164	0.045	0.010	0.016	0.000000	0.000000	392.45	603.26
3	GUIDE	used	262407608	9.33	9816	-0.026	-0.108	0.174	0.290	207.378401	26.435507	-501.66	592.76
4	GUIDE	used	262408096	9.32	9751	-0.144	-0.364	0.146	0.245	207.011678	26.515421	682.14	310.19
5	GUIDE	used	262408512	7.96	9824	0.084	0.273	0.140	0.213	207.800210	27.128796	-1837.25	-1913.41
6	GUIDE	used	262408936	9.66	9807	-0.096	0.166	0.168	0.270	207.154731	26.726554	223.65	-450.97
7	GUIDE	used	262409552	8.18	9826	0.202	0.034	0.136	0.231	206.584269	27.192805	2058.88	-2125.41

2.4 Star Slots

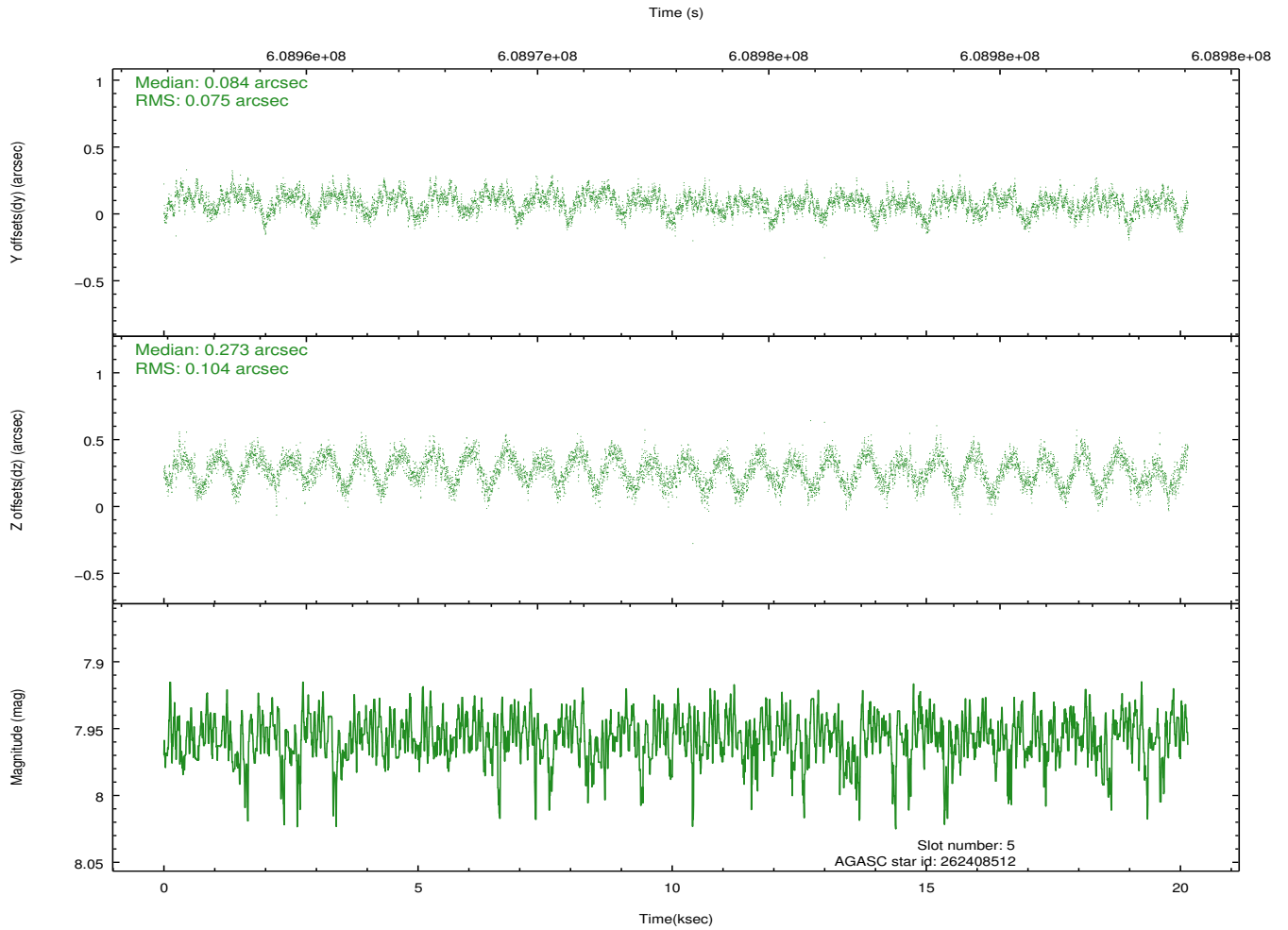
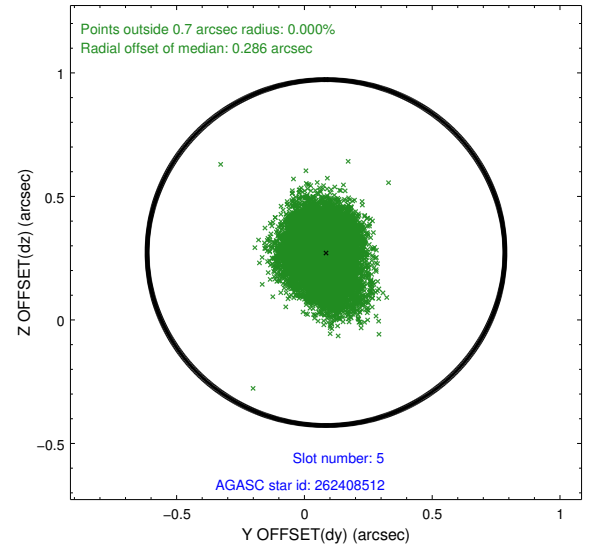
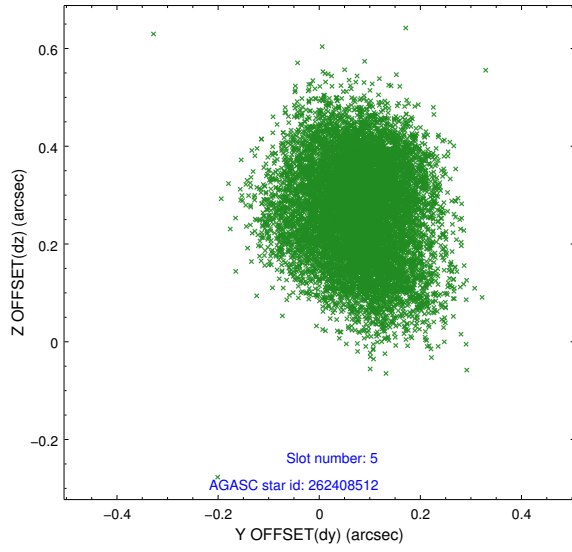
2.4.1 Slot 3



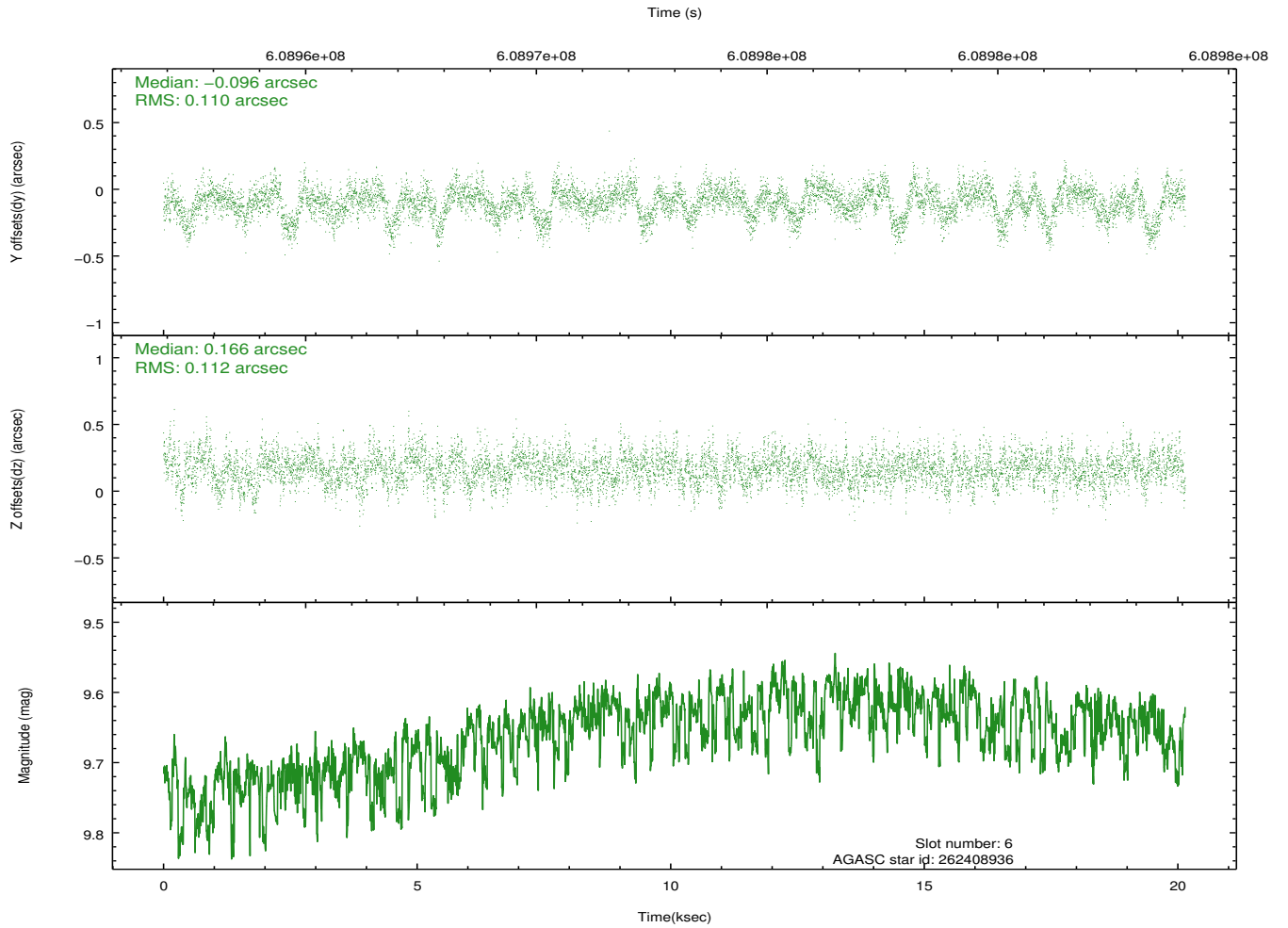
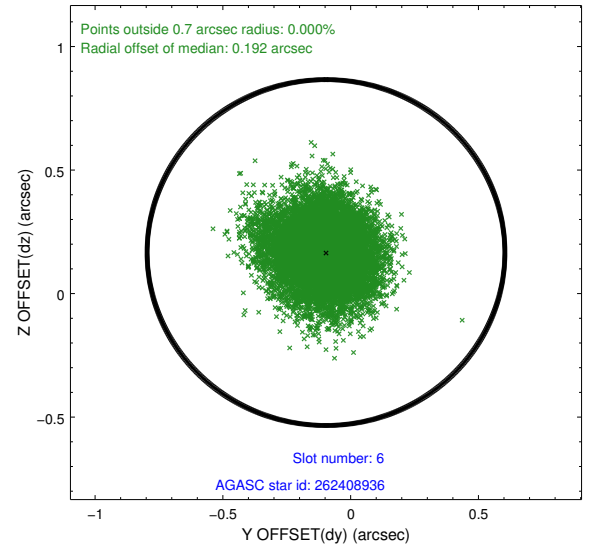
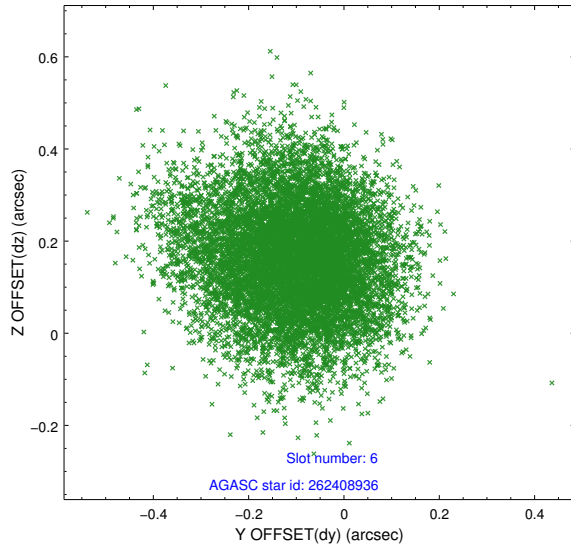
2.4.2 Slot 4



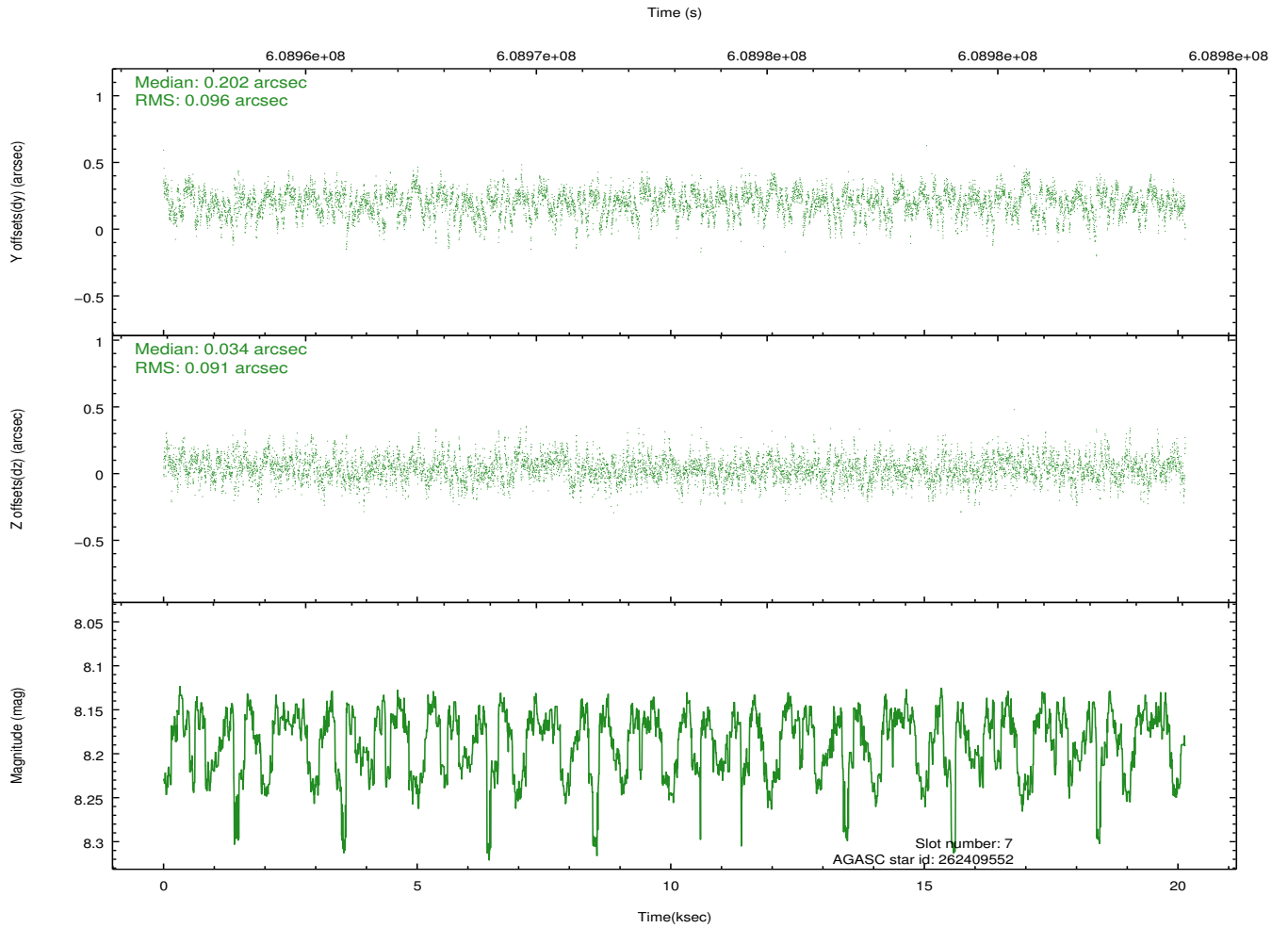
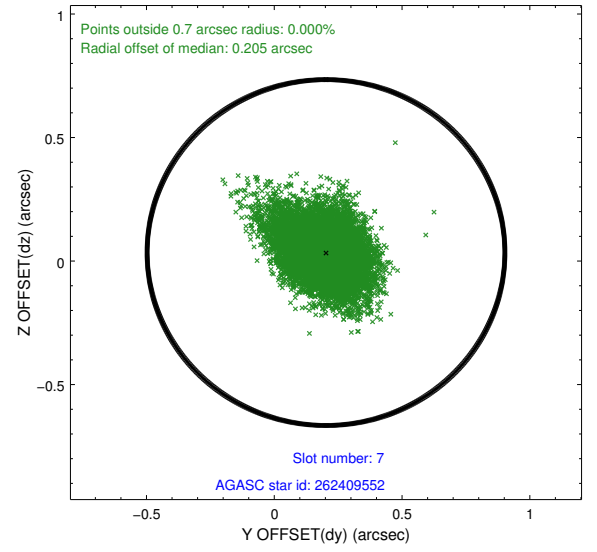
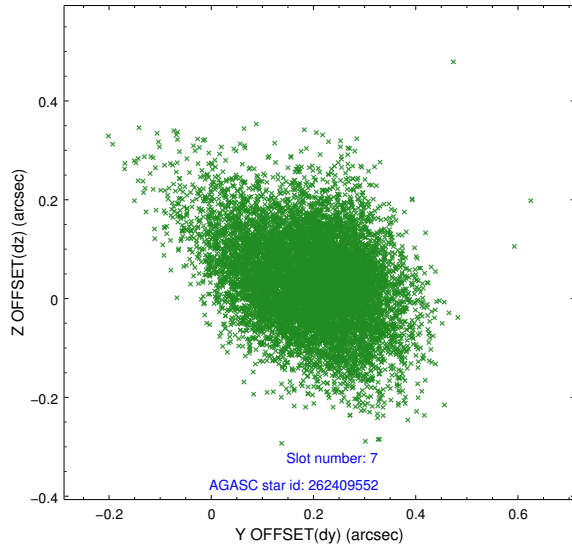
2.4.3 Slot 5



2.4.4 Slot 6

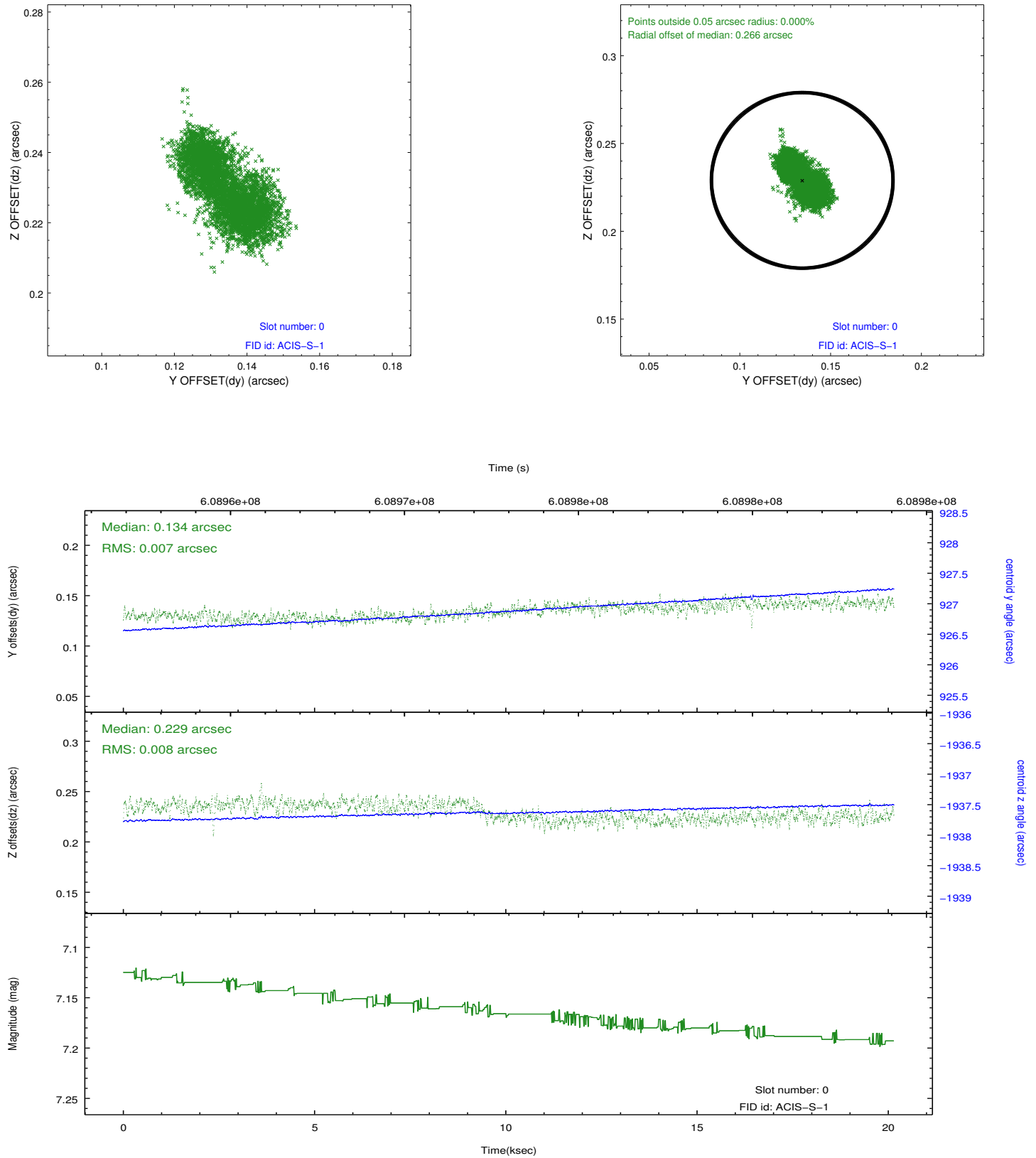


2.4.5 Slot 7

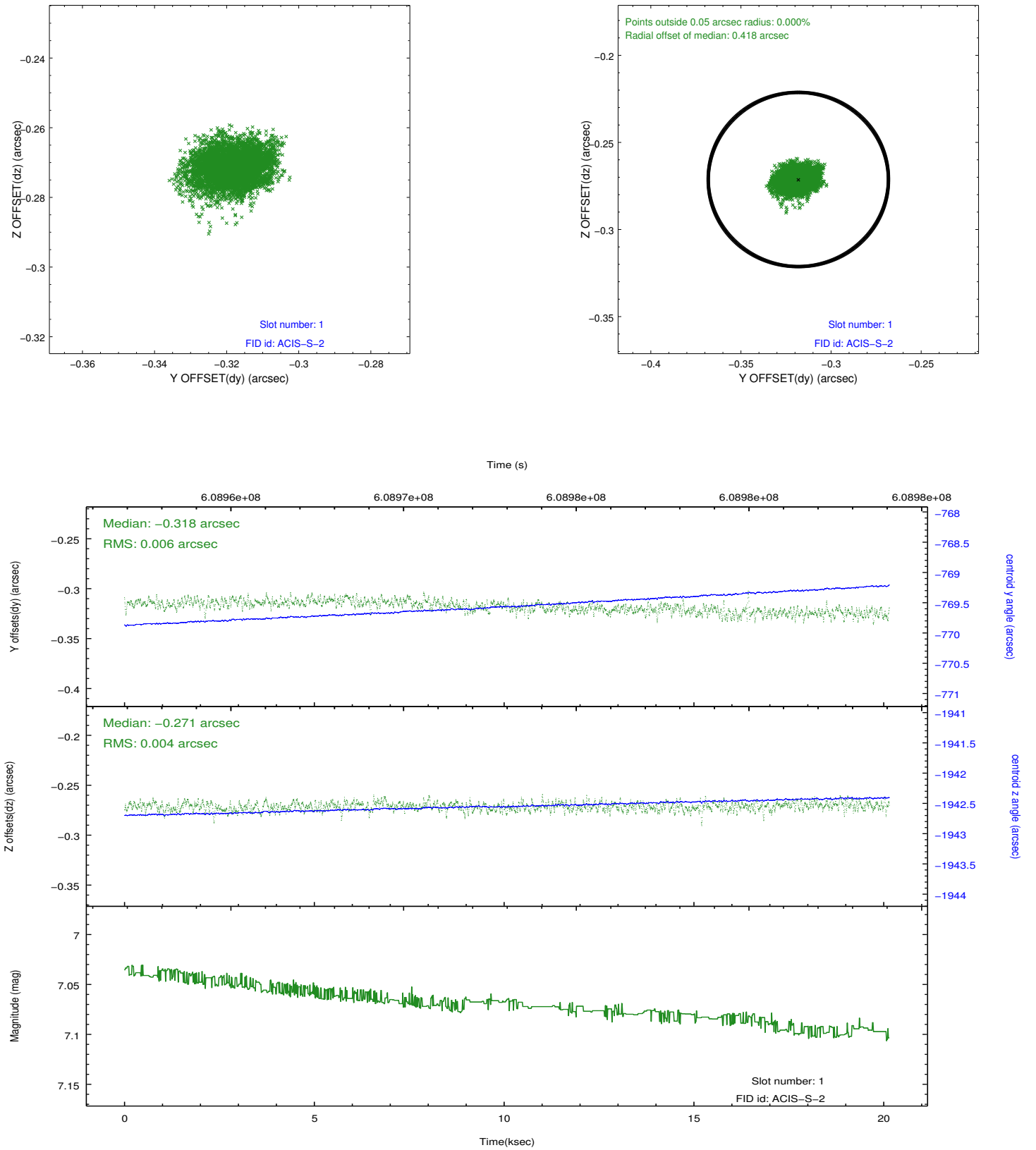


2.5 FID Slots

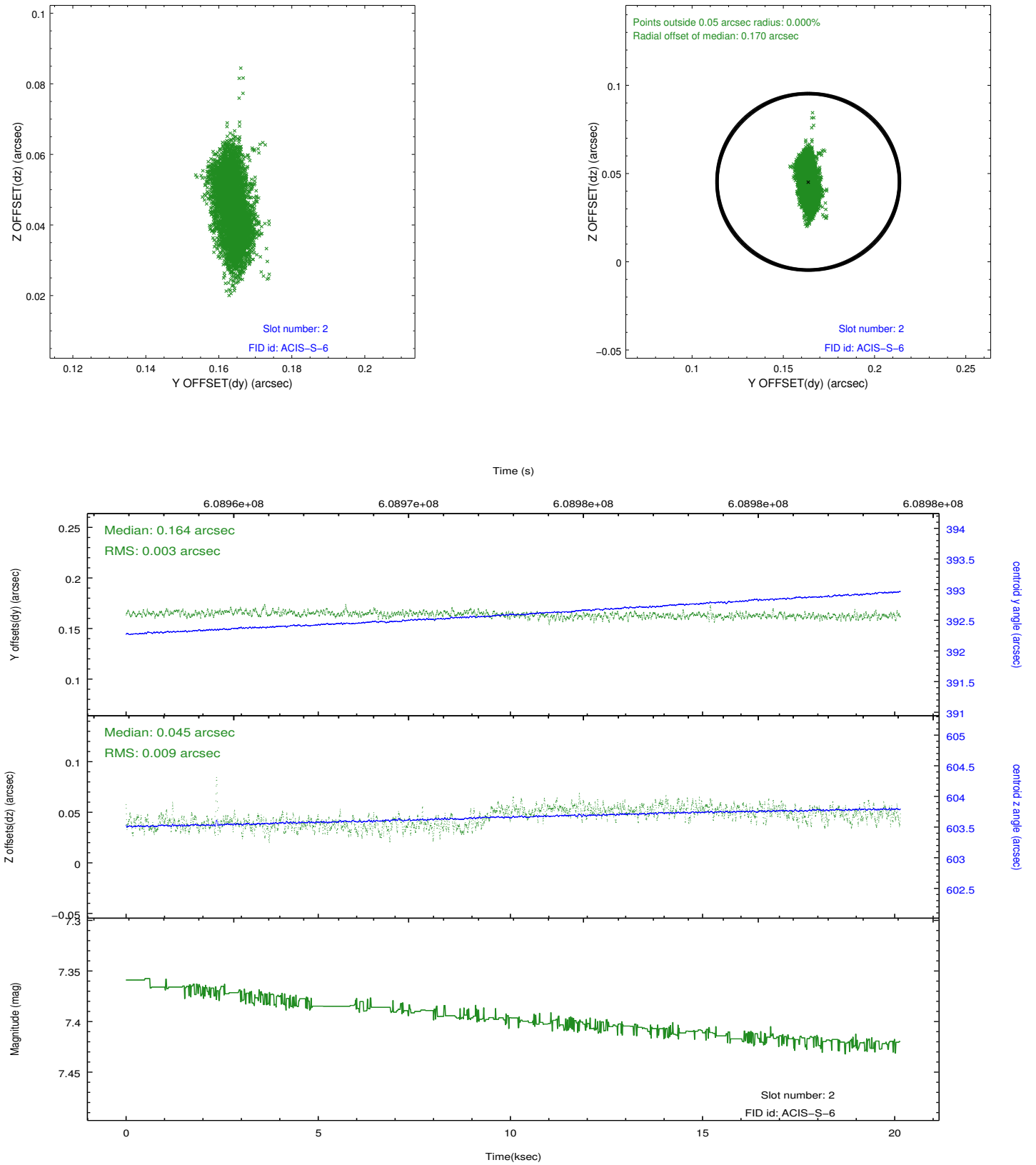
2.5.1 Slot 0



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)	2017.04.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.060788608789

A.2 Comments

Window preference met.

One optional chip was dropped.