

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18824 - L2 Version 1
Chandra X-Ray Center

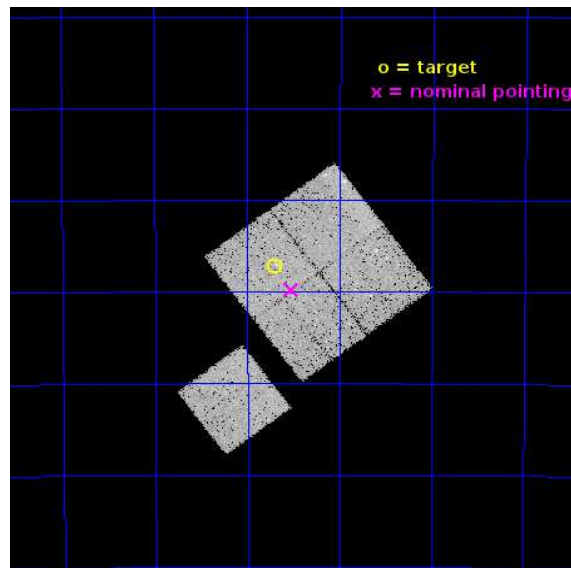
L2 Processing Date : Apr 18 2016

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1 Front

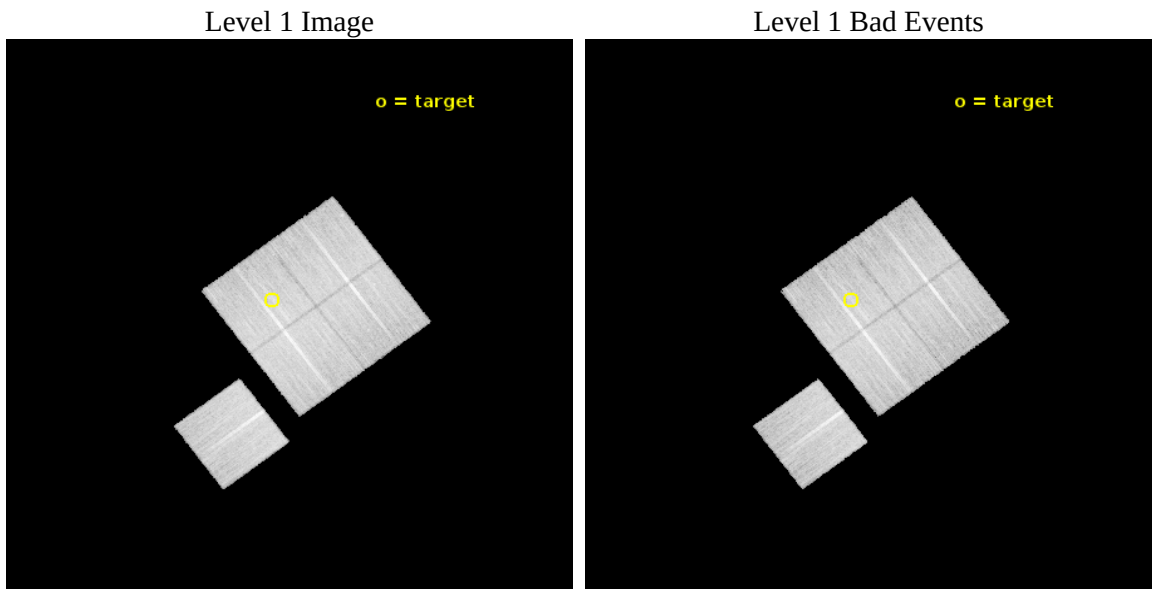
seq_num	801491	Sequence number
obs_id	18824	Observation id
title	A MASS-LIMITED SURVEY OF GALAXY CLUSTERS AT $1.2 < z < 1.7$: PROBING THE PHYSICS OF THE ICM DURING ITS ASSEMBLY	Proposal title
observer	Michael McDonald	Principal investigator
object	SPT-CLJ0459-4947	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	74.927083	Observer's specified target RA [deg]
dec_targ	-49.787194	Observer's specified target Dec [deg]
ra_nom	74.881035944153	Nominal RA [deg]
dec_nom	-49.829658563835	Nominal Dec [deg]
roll_nom	233.17349988105	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25646.300197363	Sum of GTIs [s]
livetime	25311.212404753	Livetime [s]
ontime0	25643.159207225	Sum of GTIs [s]
ontime1	25646.300197363	Sum of GTIs [s]
ontime2	25646.300197363	Sum of GTIs [s]
ontime3	25646.300197363	Sum of GTIs [s]
ontime6	25646.300197363	Sum of GTIs [s]
l2events	75336	Number of level 2 events



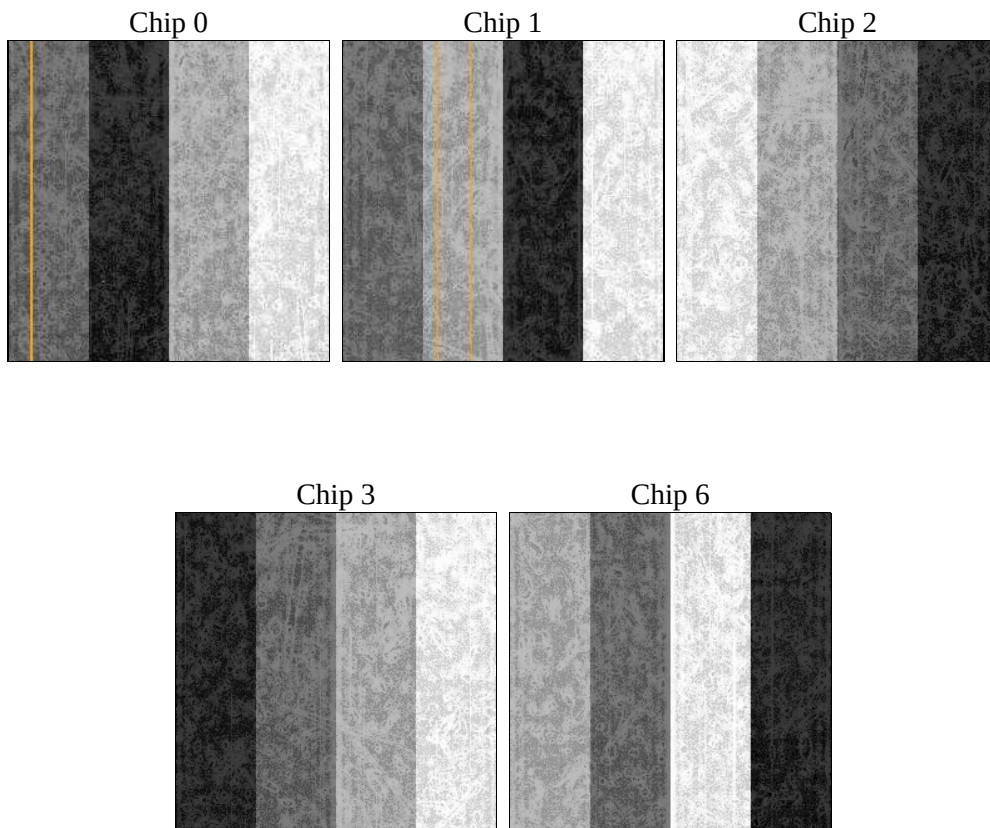
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25575.042000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	25646.300197363	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	25643.159207225	Sum of GTIs [s]
date	2016-04-18T17:21:04	Date and time of file creation	ontime1	25646.300197363	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25646.300197363	Sum of GTIs [s]
			ontime3	25646.300197363	Sum of GTIs [s]
			ontime6	25646.300197363	Sum of GTIs [s]
			l1events	781031	Number of level 1 events

2.1.4 Events

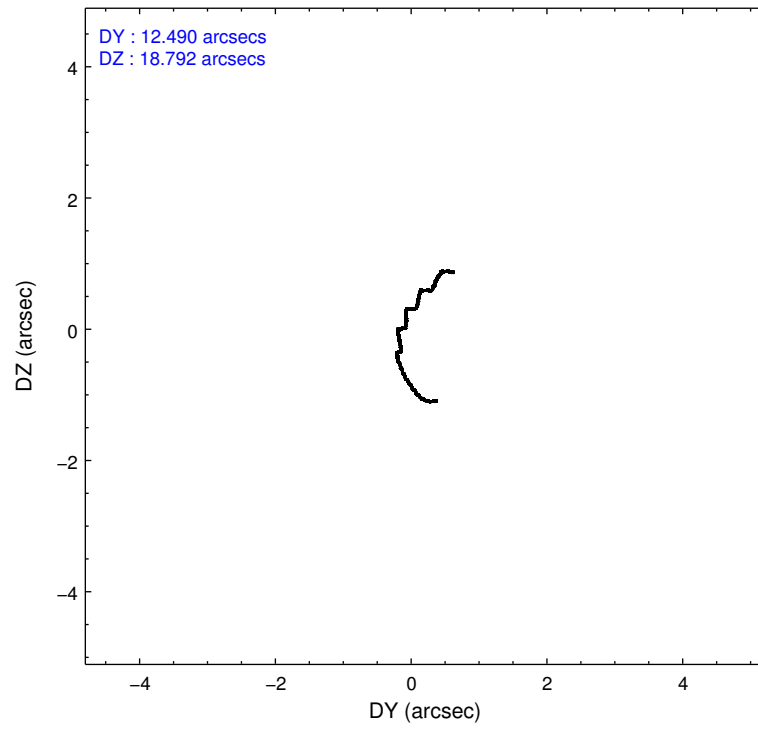
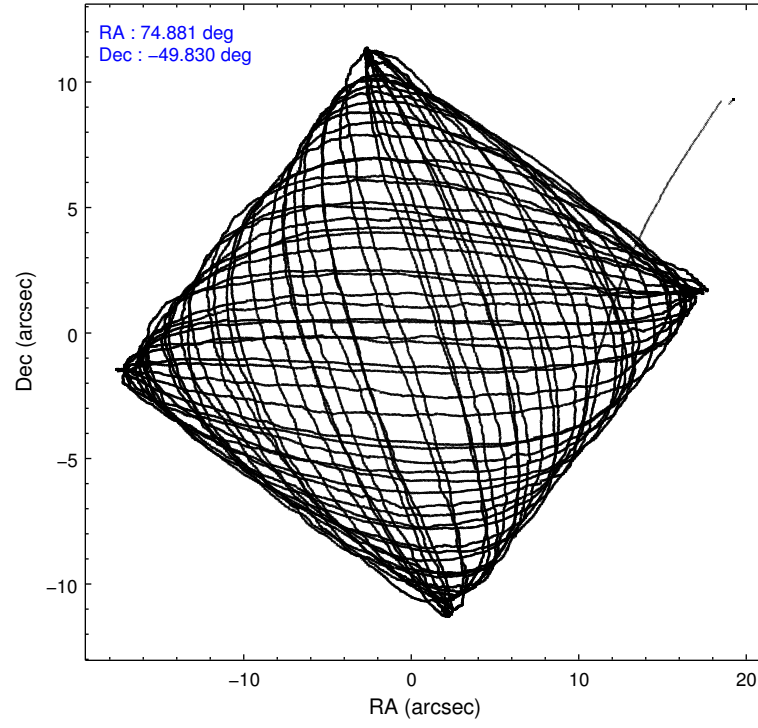
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	146497	151049	166012	155944	161529
rejected events	128891	131550	149131	139025	143577
rejected %	87%	87%	89%	89%	88%

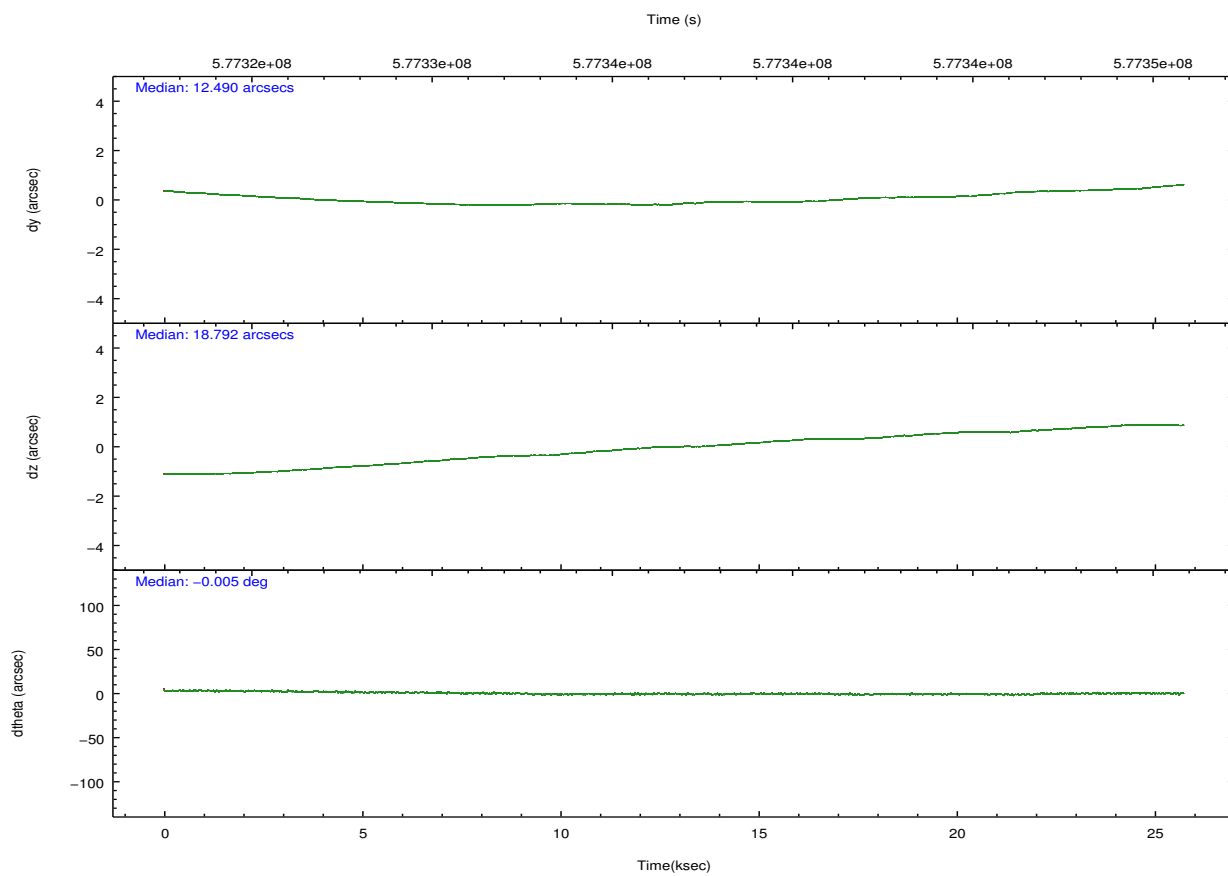
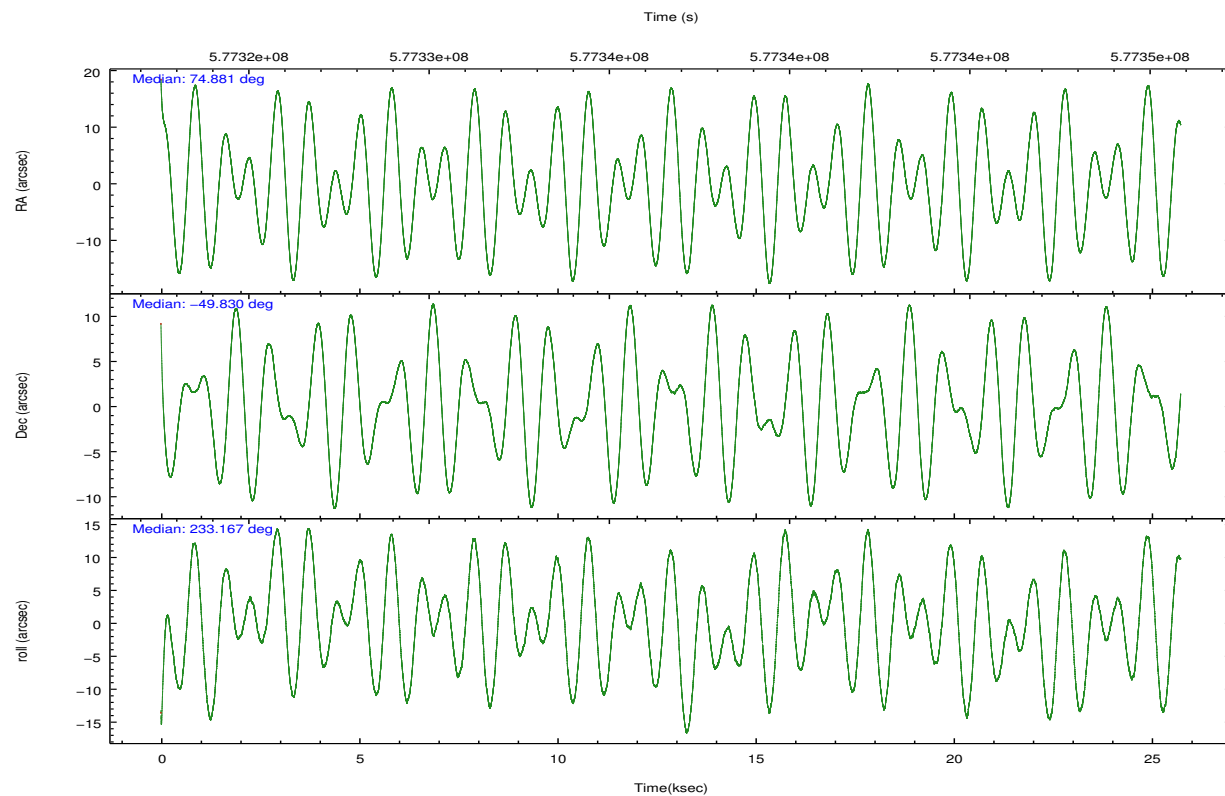
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	6216	6469	6172	5999	5794
	4%	4%	3%	3%	3%
grade 1 events	72	60	69	103	73
	0%	0%	0%	0%	0%
grade 2 events	4321	5097	3922	3732	4199
	2%	3%	2%	2%	2%
grade 3 events	1799	1756	1666	1800	1649
	1%	1%	1%	1%	1%
grade 4 events	1647	1828	1695	1717	1818
	1%	1%	1%	1%	1%
grade 5 events	6478	6974	6052	7513	7077
	4%	4%	3%	4%	4%
grade 6 events	3629	4354	3432	3675	4501
	2%	2%	2%	2%	2%
grade 7 events	122335	124511	143004	131405	136418
	83%	82%	86%	84%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	74.885963	74.88103594415263	CCD I2 on	Y	Y
[deg] Pointing Dec	-49.802205	-49.8296585638349	CCD I3 on	Y	Y
[deg] Pointing Roll	232.968587	233.1734998810532	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-225.842463	-225.848371962627	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.744081040302689	CCD S4 on	N	N
[s] Observation start time (MET)	577323977.184000	577322846.60668	CCD S5 on	N	N
Observation start date	2016-04-17T23:45:09	2016-04-17T23:27:26	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	577349552.184000	577349781.04572	On-chip summing requested	N	N
Observation end date	2016-04-18T06:51:24	2016-04-18T06:56:21	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



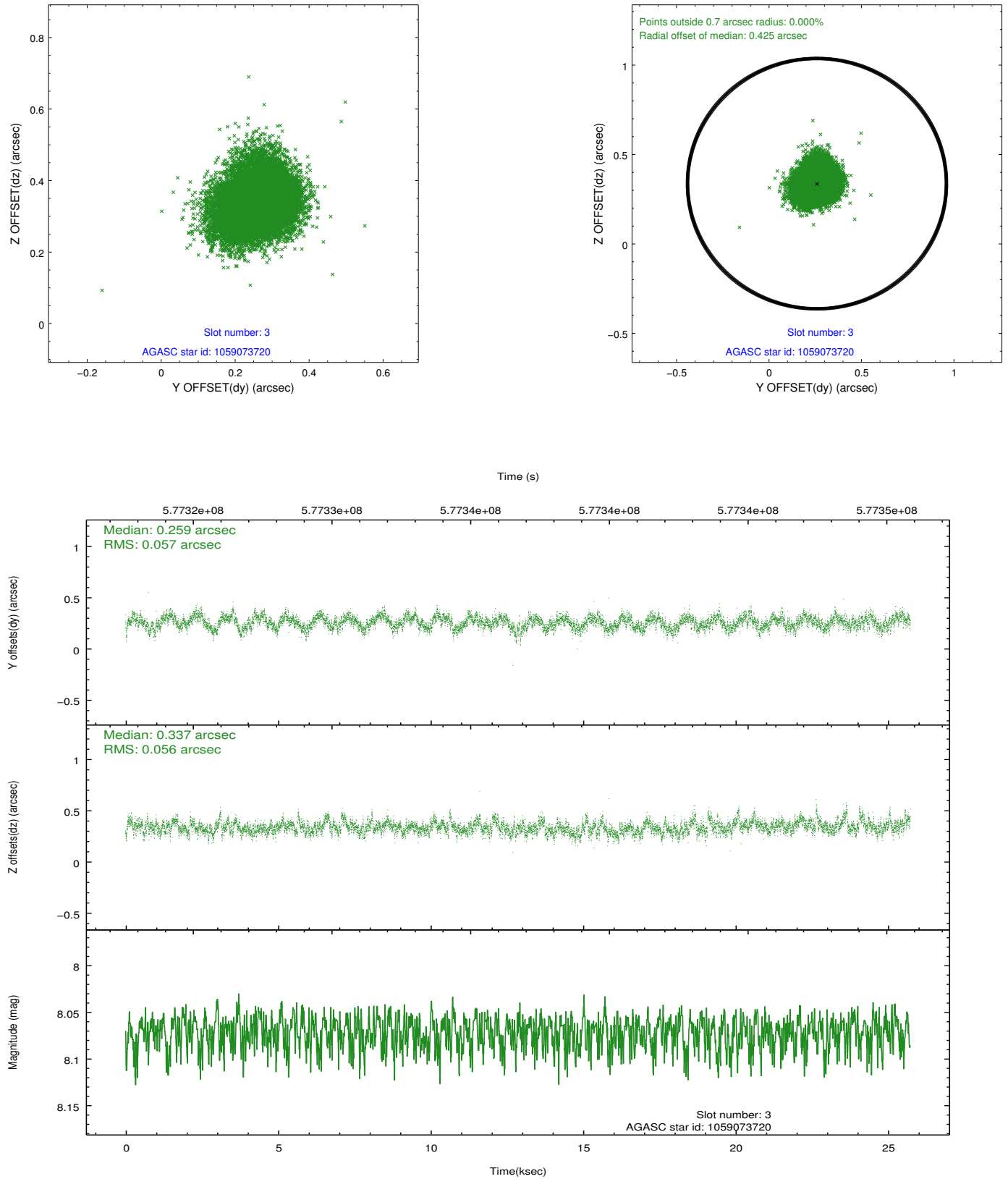


Slot Statistics

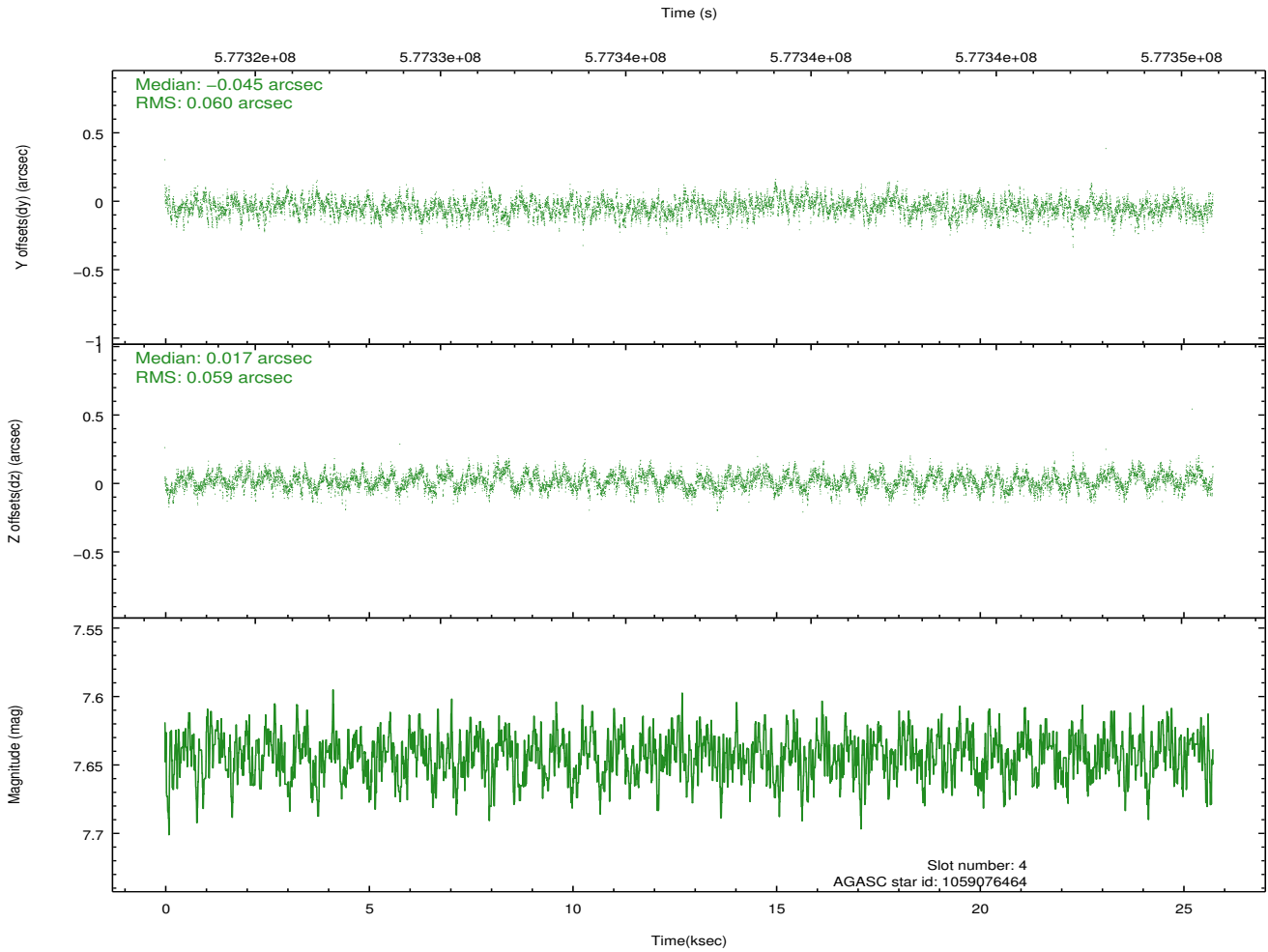
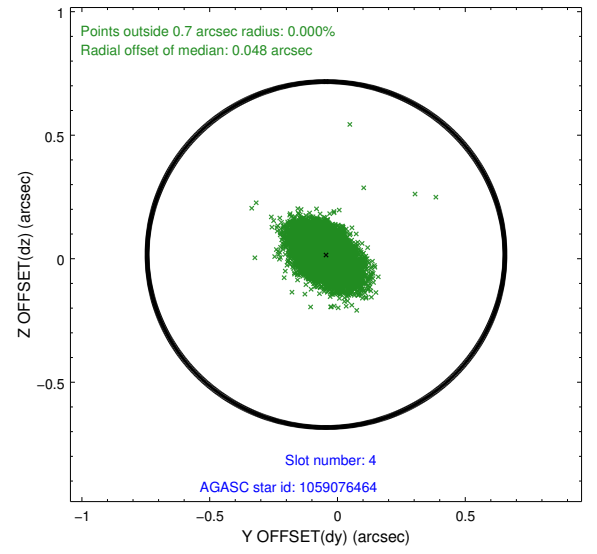
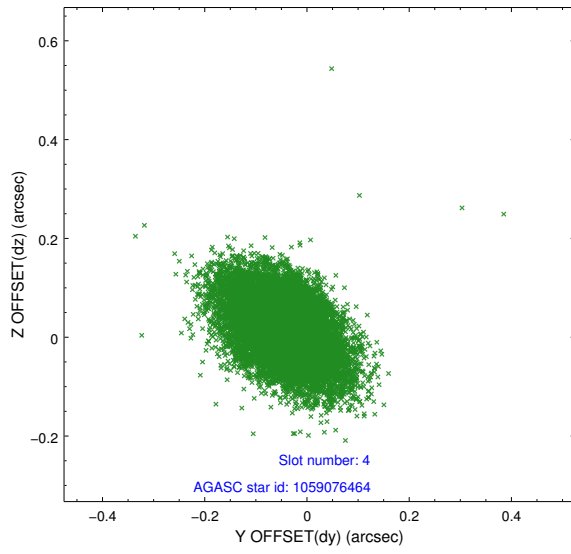
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	6276	0.136	-0.117	0.015	0.022	0.000000	0.000000	927.03	-1001.46
1	FID		ACIS-I-5	7.24	6277	-0.366	0.085	0.011	0.025	0.000000	0.000000	-1821.63	895.98
2	FID		ACIS-I-6	7.27	6277	0.138	0.100	0.015	0.027	0.000000	0.000000	392.31	1540.76
3	GUIDE	used	1059073720	8.07	12551	0.259	0.337	0.084	0.137	74.658527	-49.231044	-1318.63	-1664.10
4	GUIDE	used	1059076464	7.64	12552	-0.045	0.017	0.088	0.149	73.790094	-49.945515	1955.96	-1703.69
5	GUIDE	used	1059201000	7.11	12554	-0.060	0.019	0.083	0.137	75.733601	-49.703433	-1464.04	1366.89
6	GUIDE	used	1059206568	7.04	12554	0.066	0.060	0.086	0.138	75.815619	-49.492286	-2189.79	1071.80
7	GUIDE	used	1059592008	8.09	12550	-0.220	-0.436	0.093	0.148	75.466024	-50.276117	561.64	2095.97

2.4 Star Slots

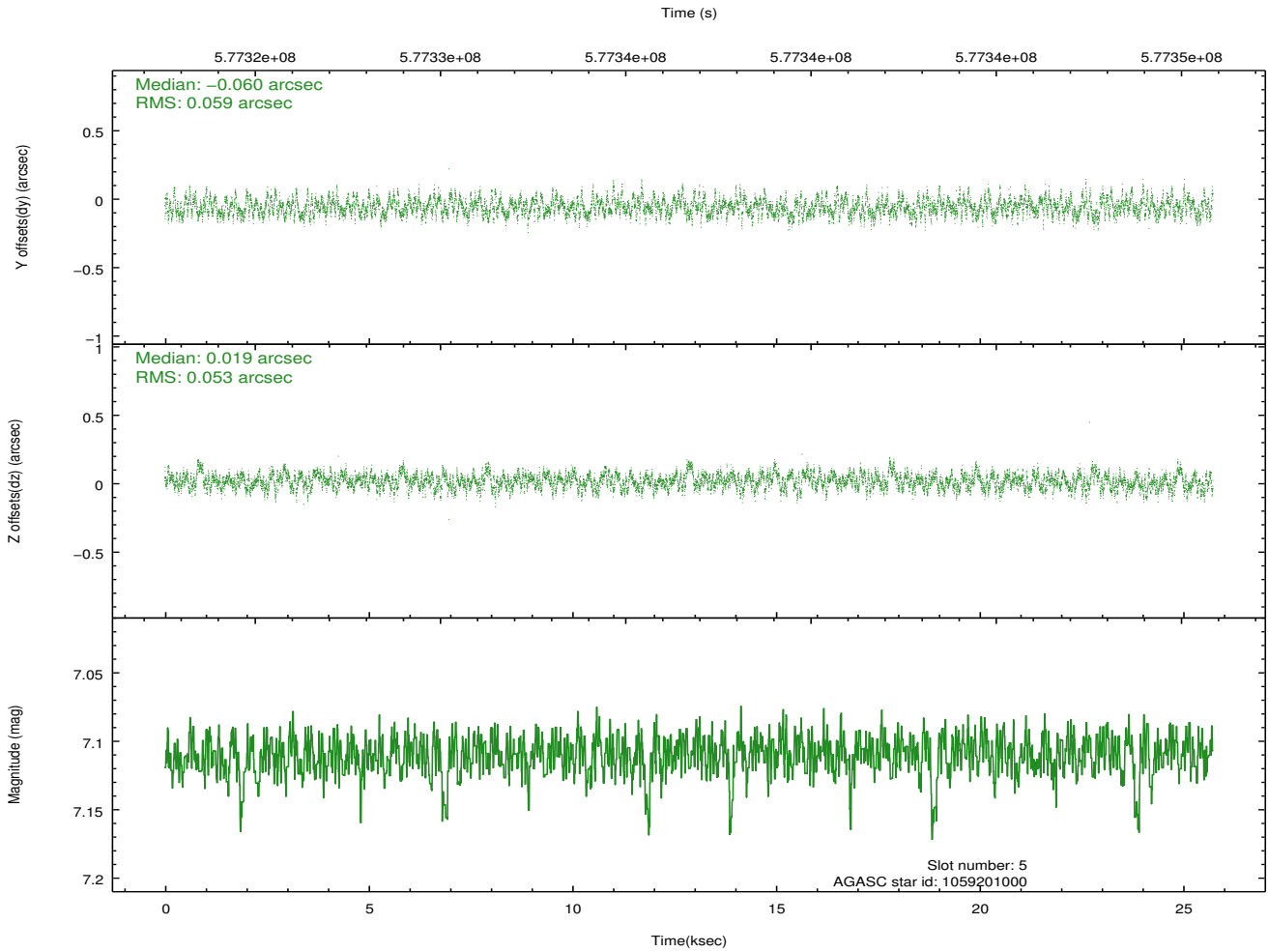
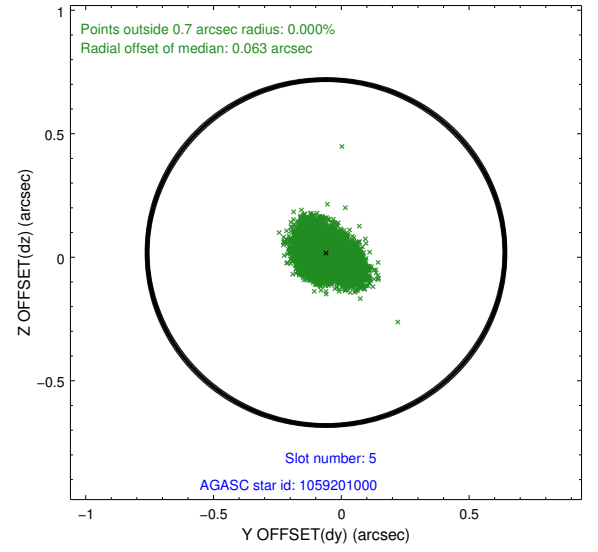
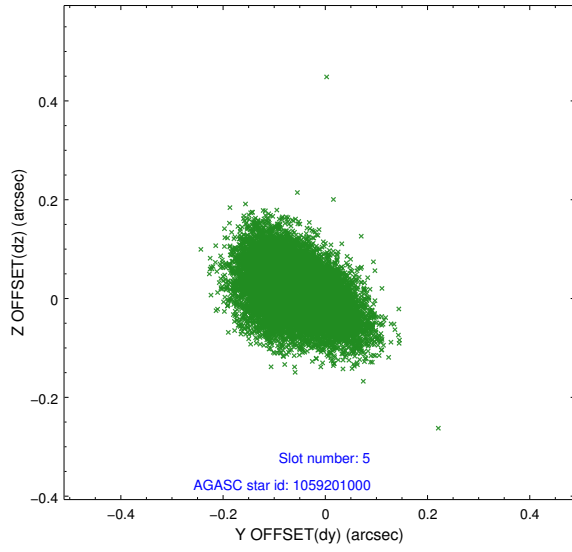
2.4.1 Slot 3



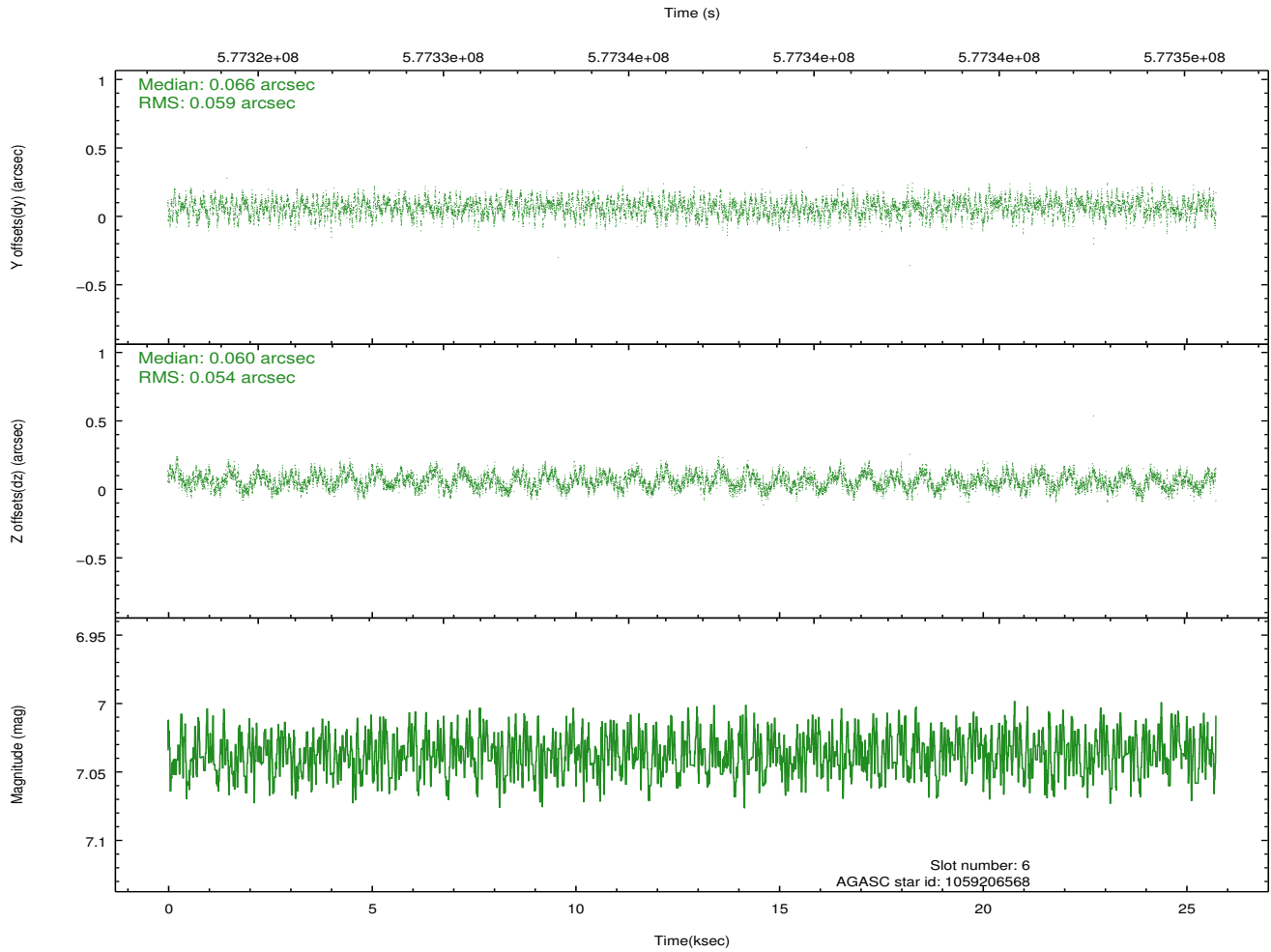
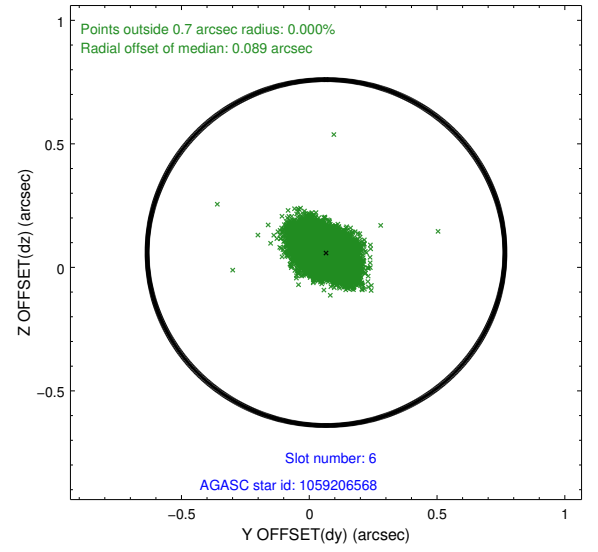
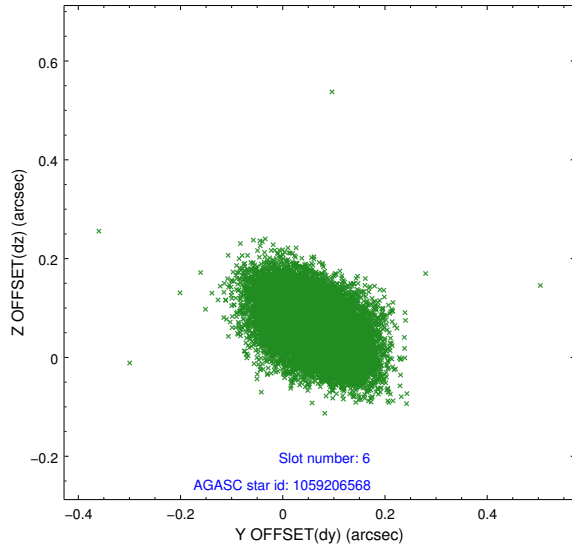
2.4.2 Slot 4



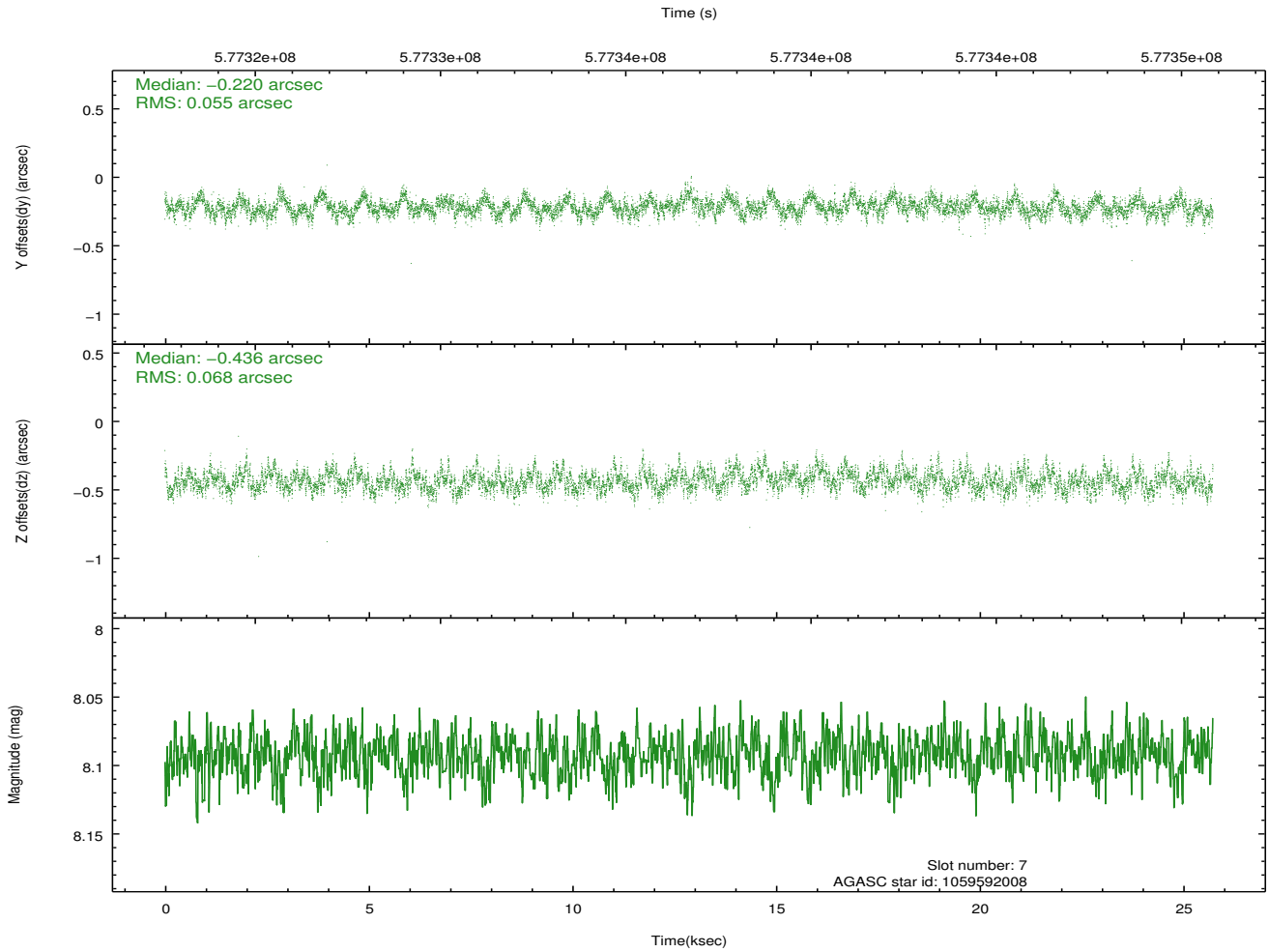
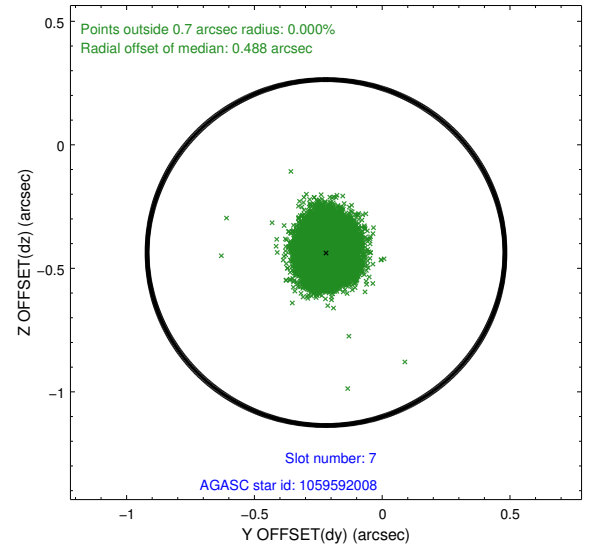
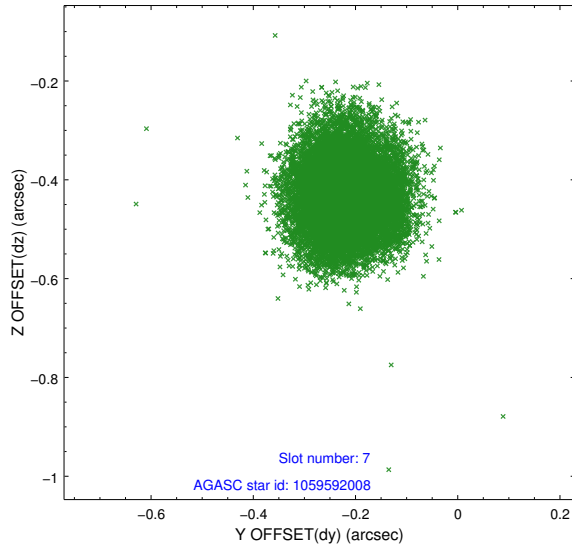
2.4.3 Slot 5



2.4.4 Slot 6

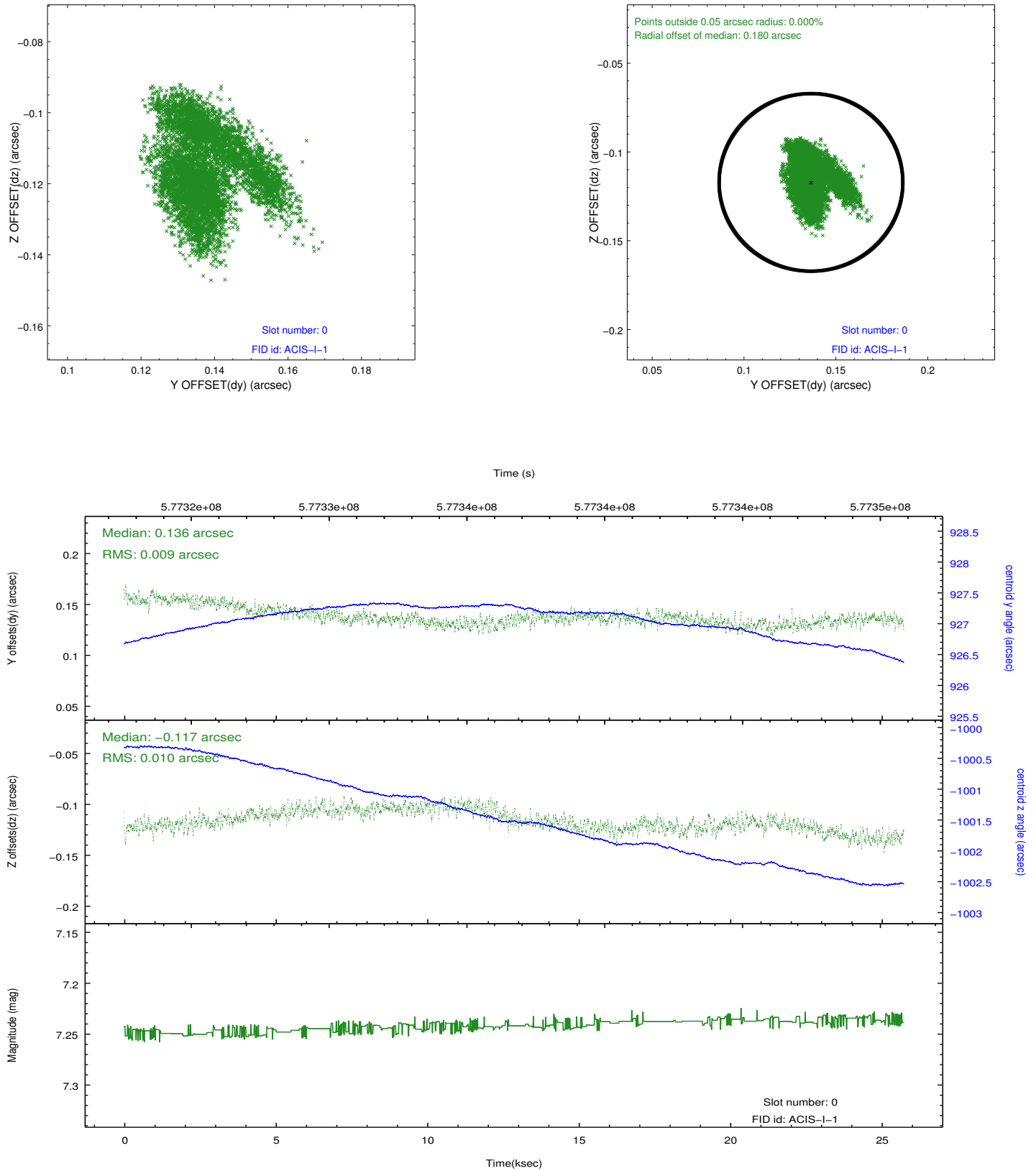


2.4.5 Slot 7

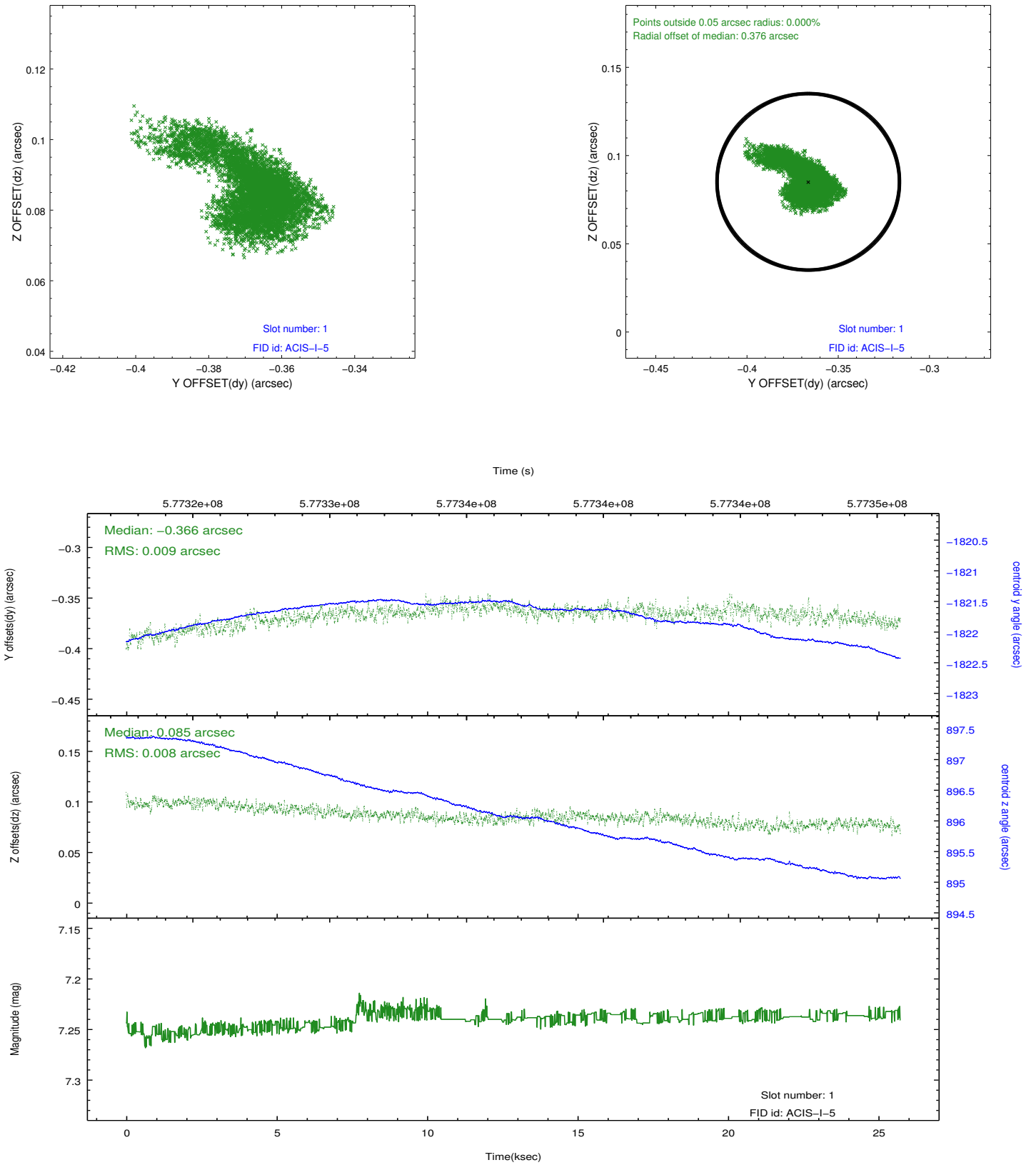


2.5 FID Slots

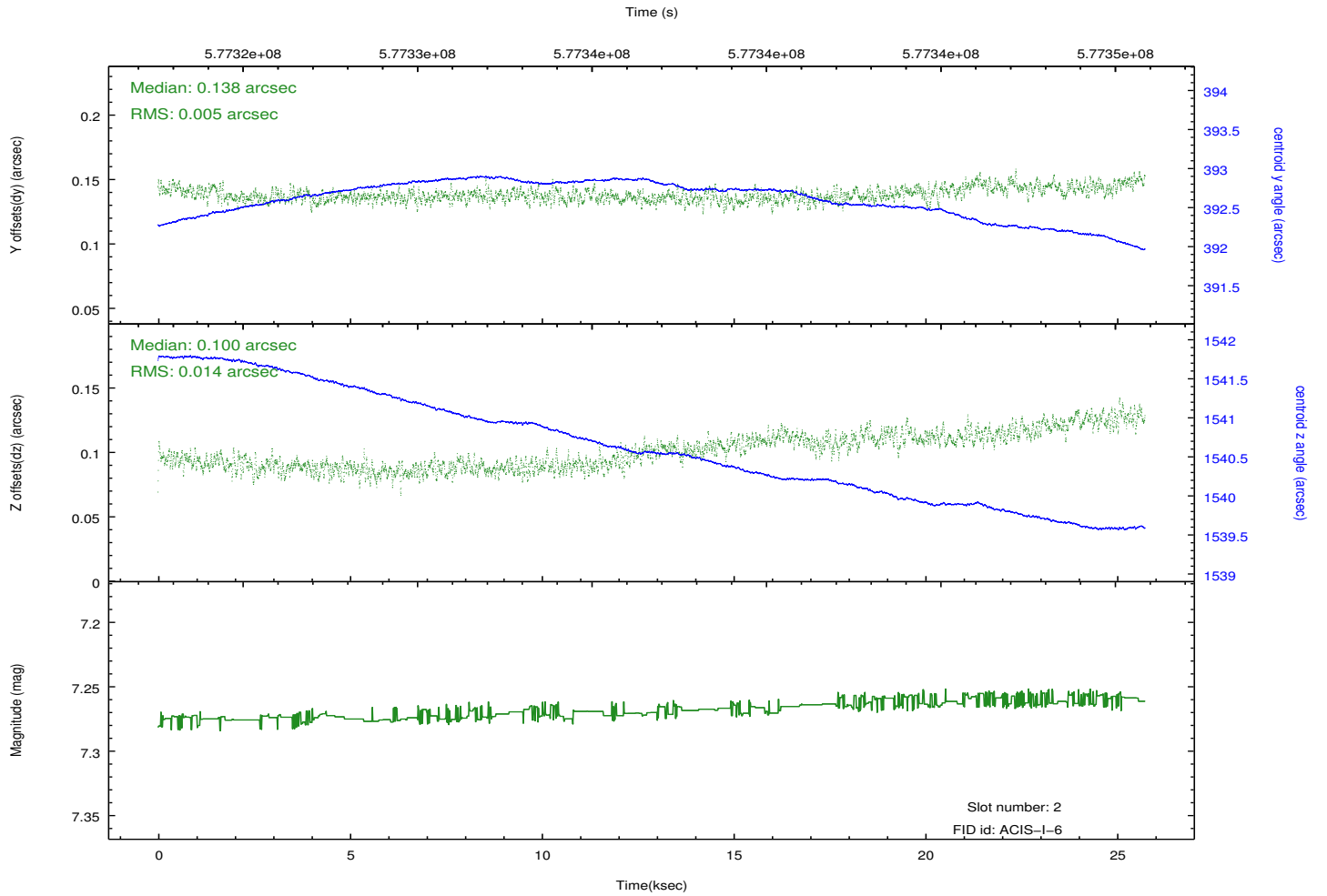
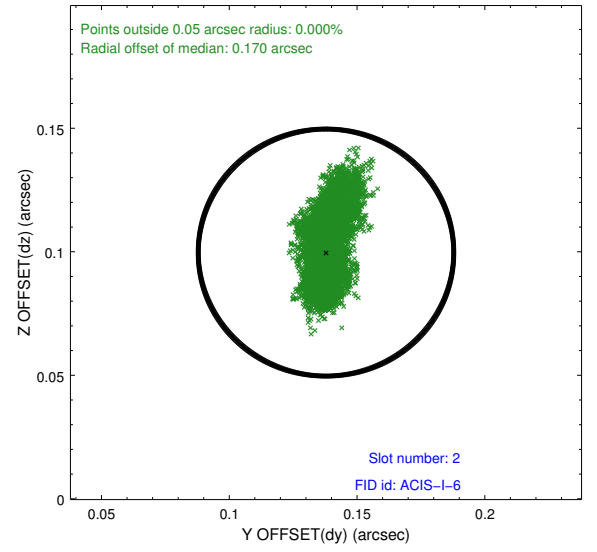
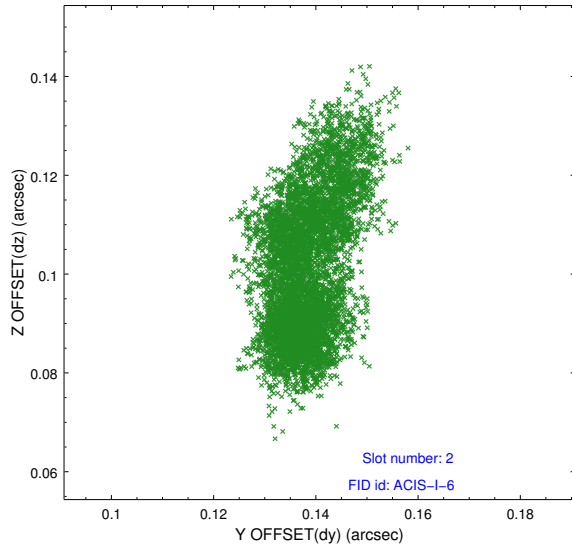
2.5.1 Slot 0



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)	2016.04.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.646300197363

A.2 Comments