

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9450 - L2 Version 3
Chandra X-Ray Center

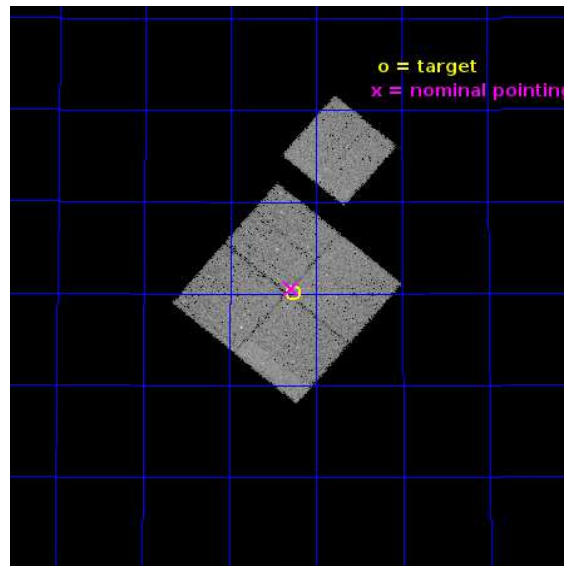
L2 Processing Date : Jul 15 2015

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1 Front

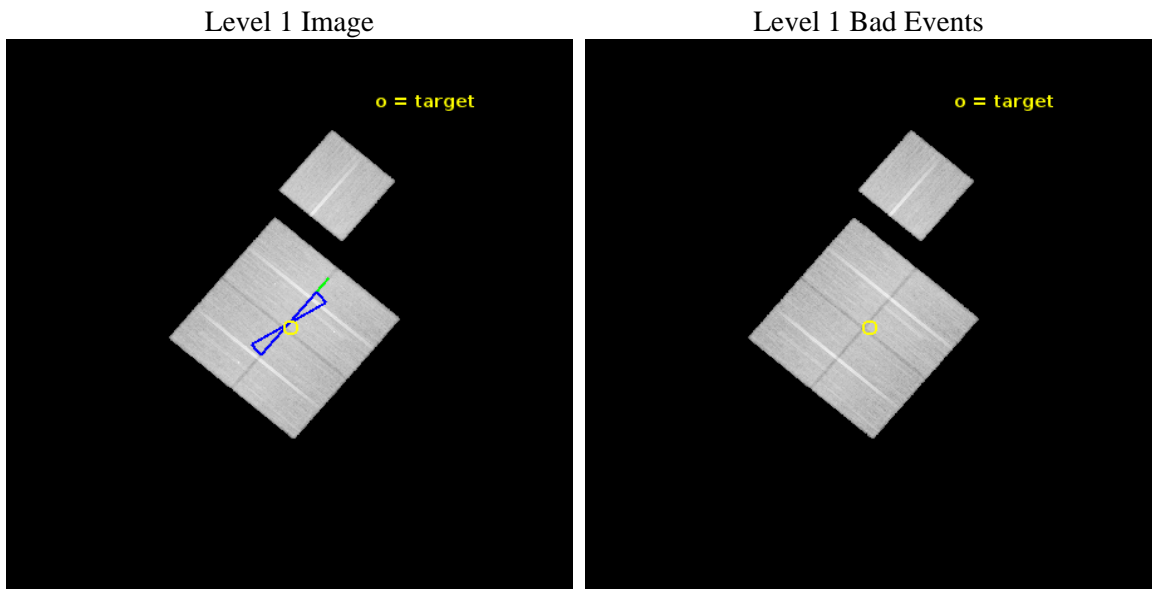
seq_num	900796	Sequence number
obs_id	9450	Observation id
title	The Evolution of Faint AGN at High Redshift	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	AEGIS-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.064583	Observer's specified target RA [deg]
dec_targ	53.002694	Observer's specified target Dec [deg]
ra_nom	215.07182717062	Nominal RA [deg]
dec_nom	53.009505852043	Nominal Dec [deg]
roll_nom	40.202907552204	Nominal Roll [deg]
revision	3	Processing version of data
ontime	29158.455758452	Sum of GTIs [s]
livetime	28777.479067825	Livetime [s]
ontime0	29164.737689078	Sum of GTIs [s]
ontime1	29161.596708715	Sum of GTIs [s]
ontime2	29161.596718729	Sum of GTIs [s]
ontime3	29158.455758452	Sum of GTIs [s]
ontime6	29155.31490773	Sum of GTIs [s]
l2events	99950	Number of level 2 events



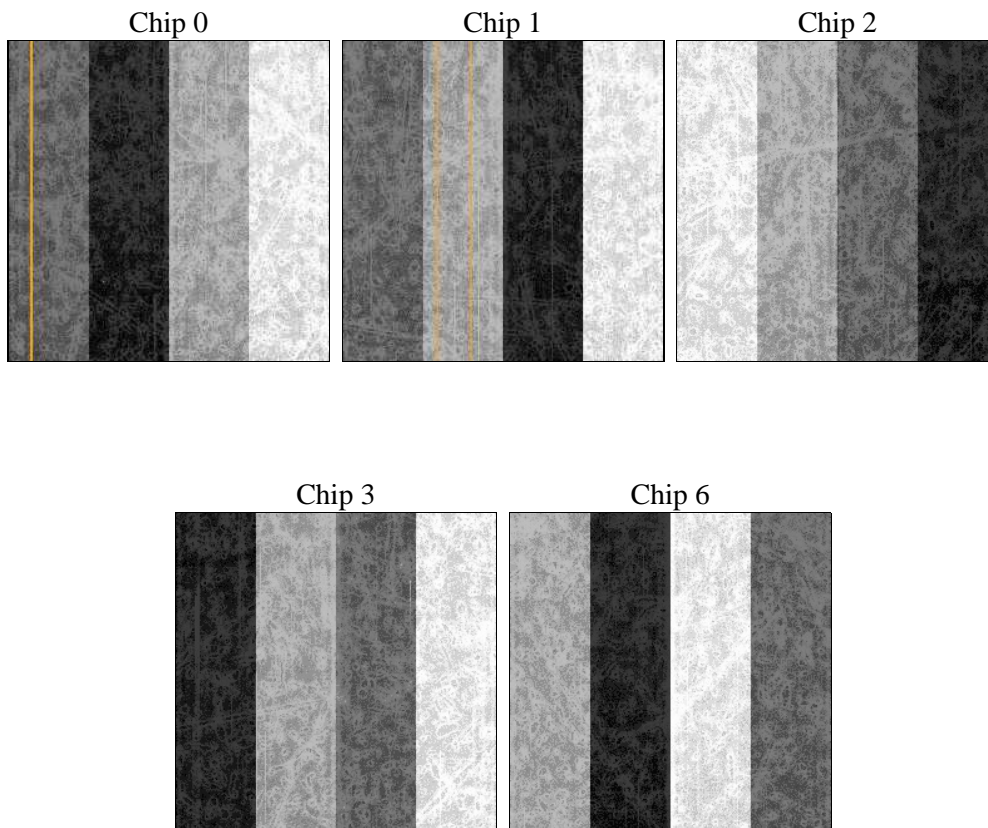
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	29158.455758452	Sum of GTIs [s]
caldbver	4.6.8	 	ontime0	29164.737689078	Sum of GTIs [s]
date	2015-07-15T16:08:24	Date and time of file creation	ontime1	29161.596708715	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	29161.596718729	Sum of GTIs [s]
			ontime3	29158.455758452	Sum of GTIs [s]
			ontime6	29155.31490773	Sum of GTIs [s]
			l1events	1178170	Number of level 1 events

2.1.4 Events

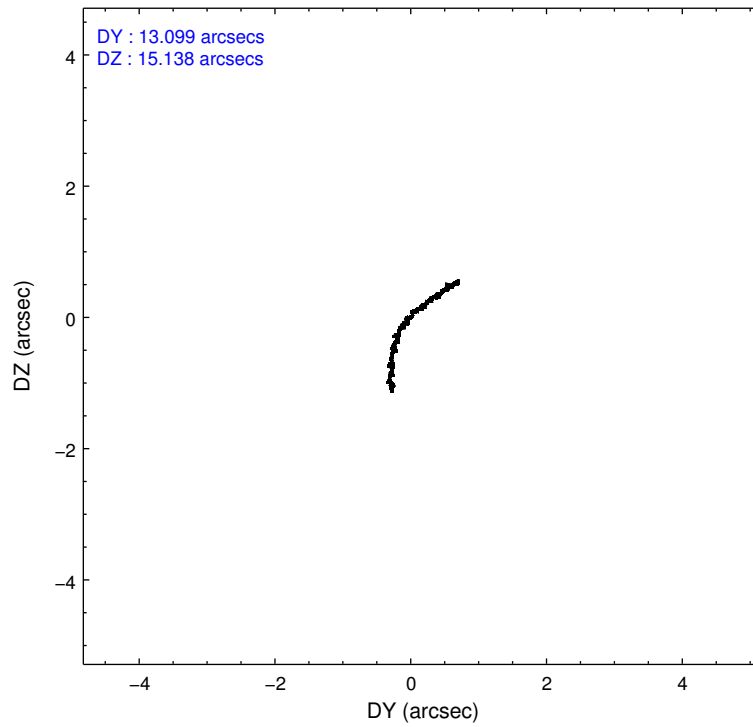
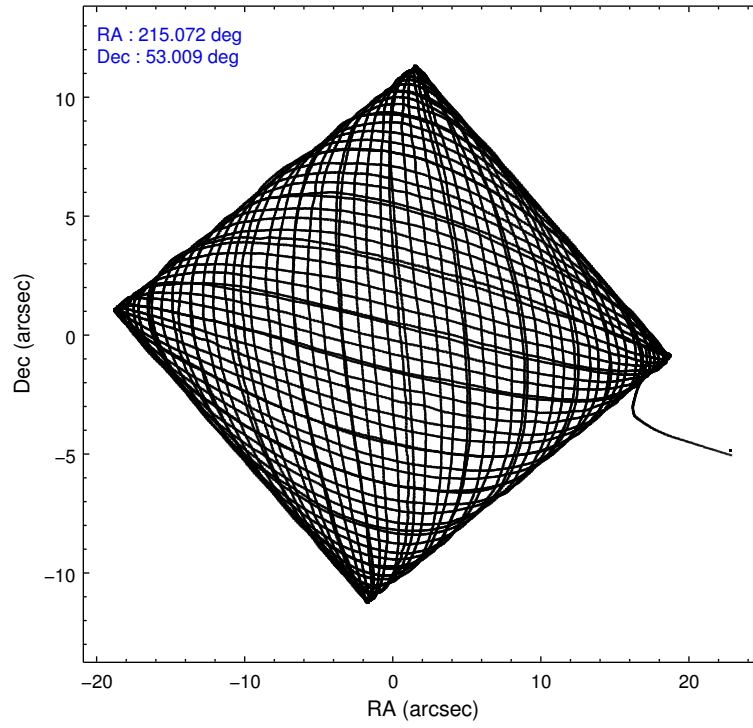
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	224973	221133	252532	241123	238409
rejected events	200998	194898	228752	218685	214361
rejected %	89%	88%	90%	90%	89%

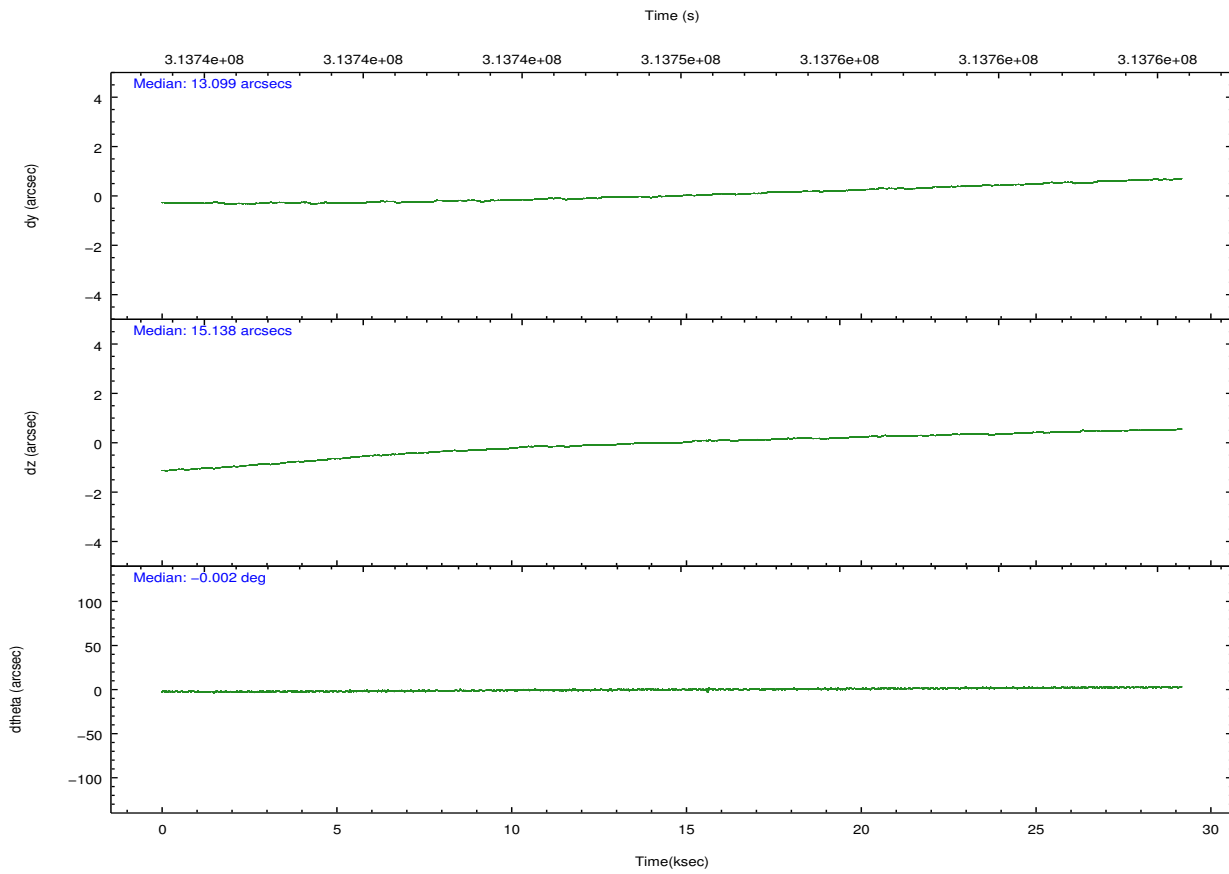
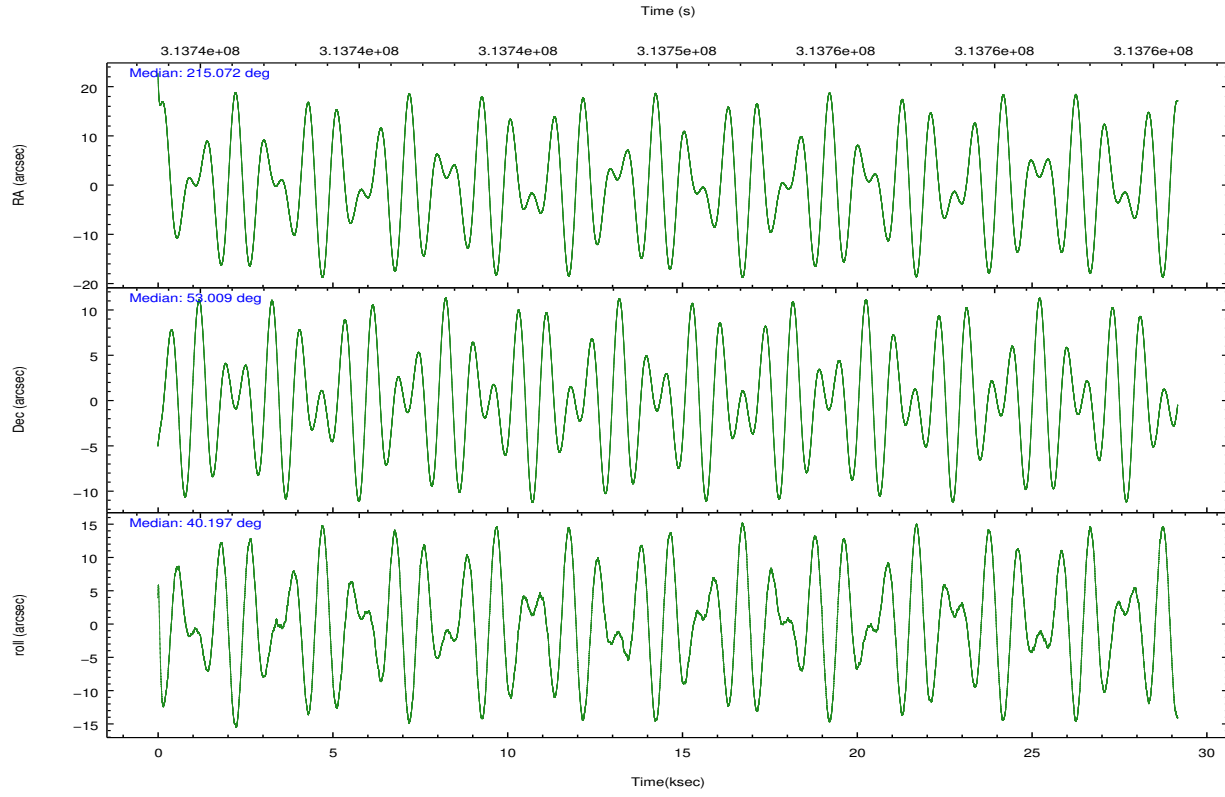
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8604	9343	8599	8021	8288
	3%	4%	3%	3%	3%
grade 1 events	134	102	127	140	125
	0%	0%	0%	0%	0%
grade 2 events	5863	5961	5730	4926	5298
	2%	2%	2%	2%	2%
grade 3 events	2627	2866	2556	2500	2706
	1%	1%	1%	1%	1%
grade 4 events	2423	2793	2569	2519	2681
	1%	1%	1%	1%	1%
grade 5 events	8207	9143	7930	9657	9396
	3%	4%	3%	4%	3%
grade 6 events	4570	5398	4438	4582	5190
	2%	2%	1%	1%	2%
grade 7 events	192545	185527	220583	208778	204725
	85%	83%	87%	86%	85%

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	215.056503	215.0718271706218	CCD I2 on	Y	Y
[deg] Pointing Dec	52.983611	53.00950585204345	CCD I3 on	Y	Y
[deg] Pointing Roll	40.006455	40.20290755220376	CCD S0 on	N	N
[deg] Roll angle	50.000000	50.000000	CCD S1 on	N	N
[deg] Roll tolerance	10.000000	10.000000	CCD S2 on	O1	Y
Roll constraint allows 180D rotation	Y	Y	CCD S3 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S4 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S5 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	Number of optional ACIS chips dropped	0	0
[mm] SIM translation stage offset	0	-0.005018542100998502	On-chip summing requested	N	N
[s] Observation start time (MET)	313735301.184000	313734247.39088	Subarray requested	NONE	NONE
Observation start date	2007-12-11T04:40:36	2007-12-11T04:24:07	Alternating exposures requested	N	N
[s] Observation end time (MET)	313764301.184000	313765093.22987	[s] Primary exposure time	0.000000	3.1
Observation end date	2007-12-11T12:43:56	2007-12-11T12:58:13			
Read mode	TIMED	TIMED			

2.3 Aspect



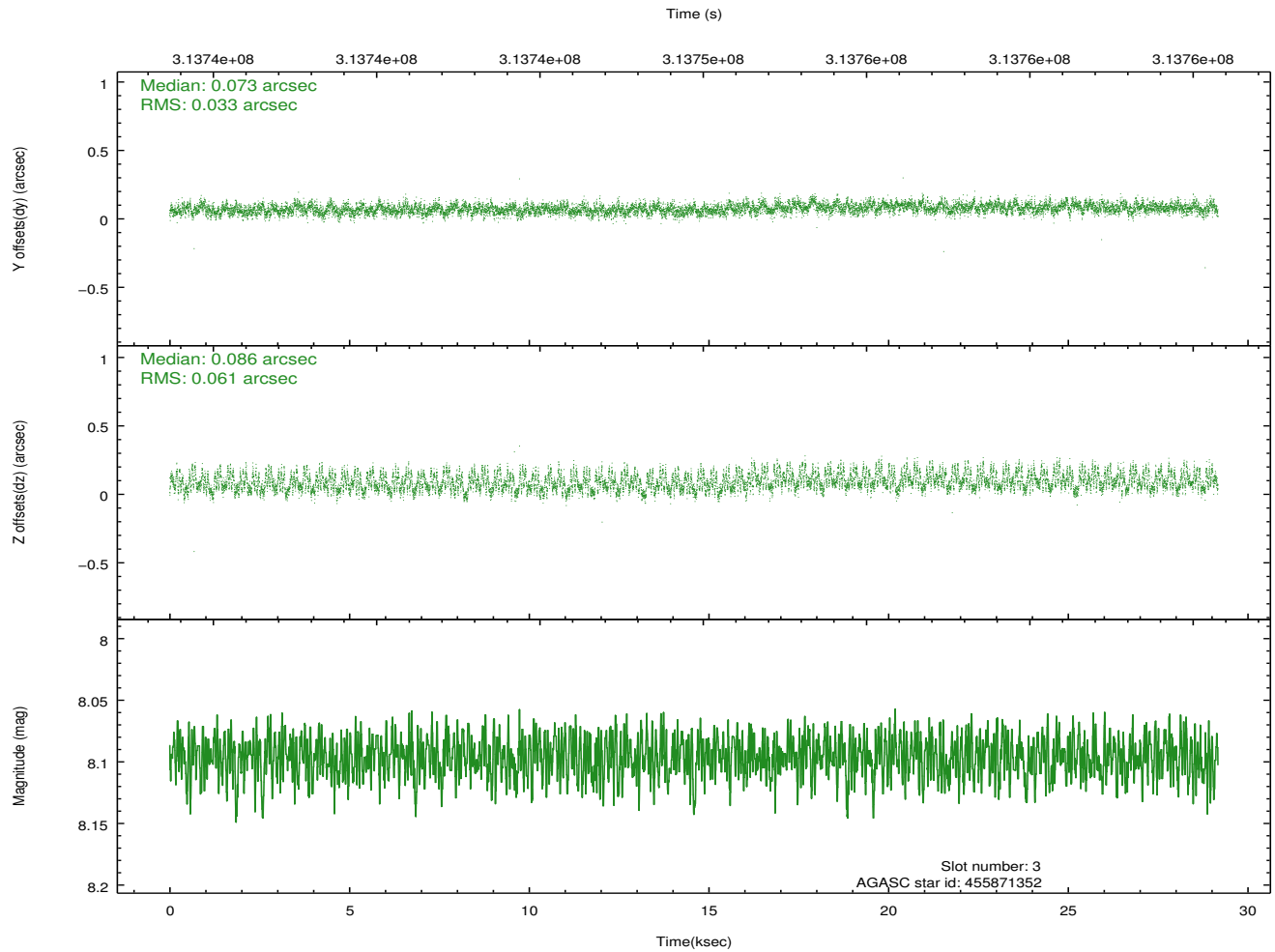
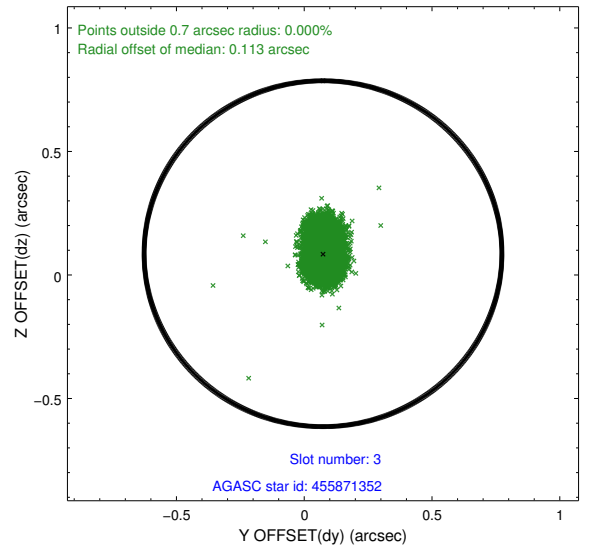
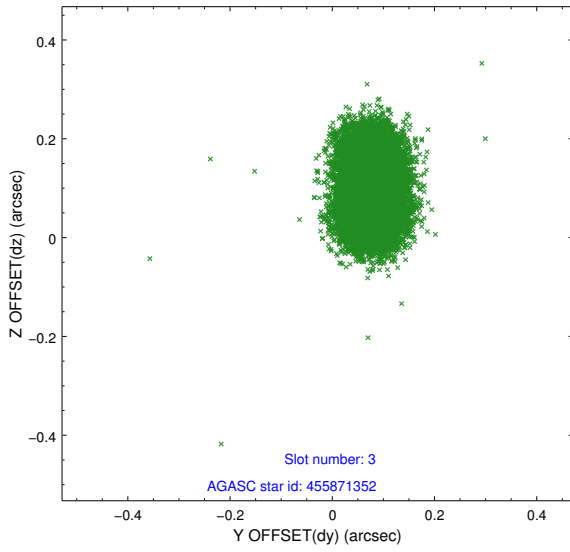


Slot Statistics

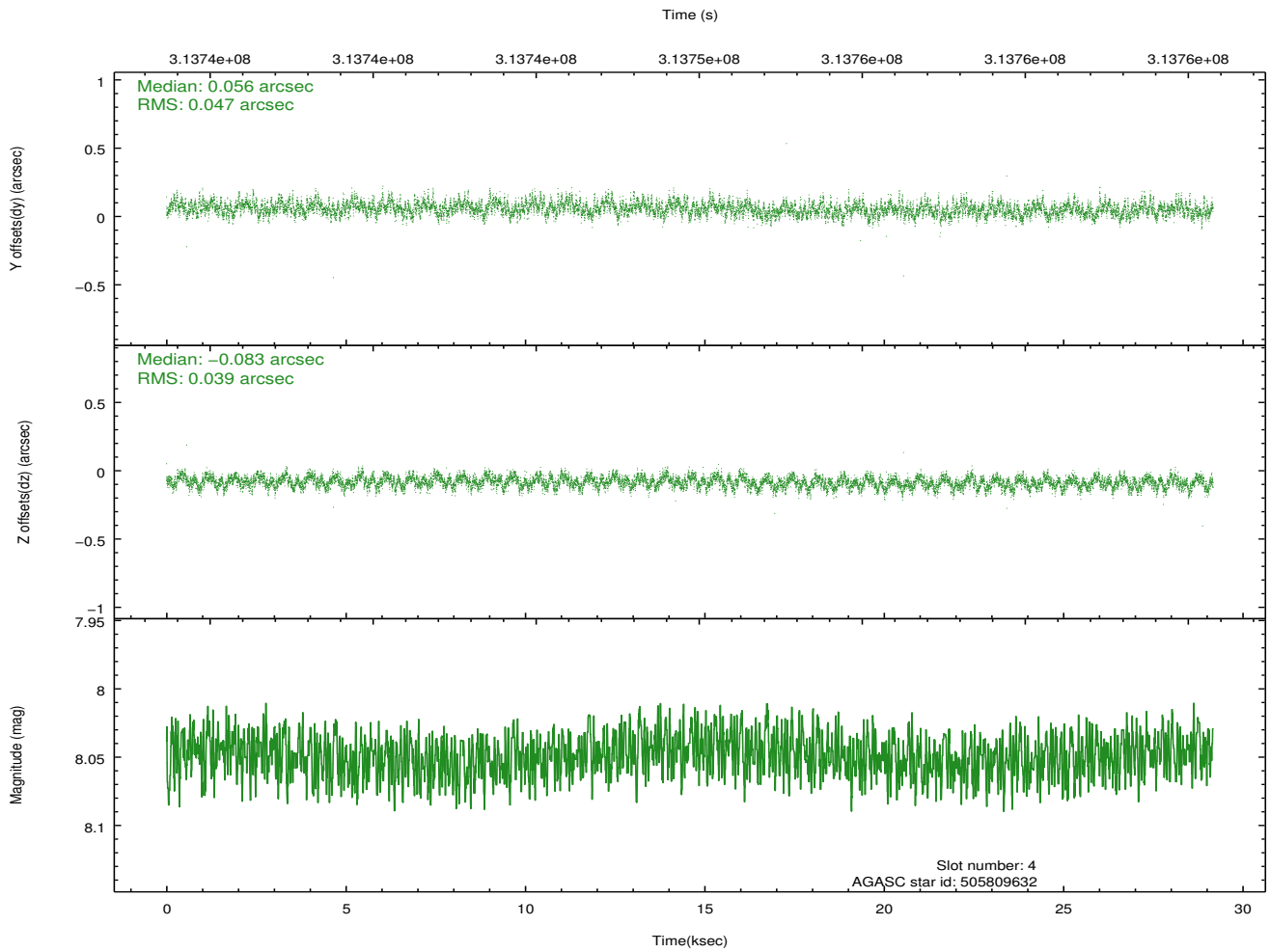
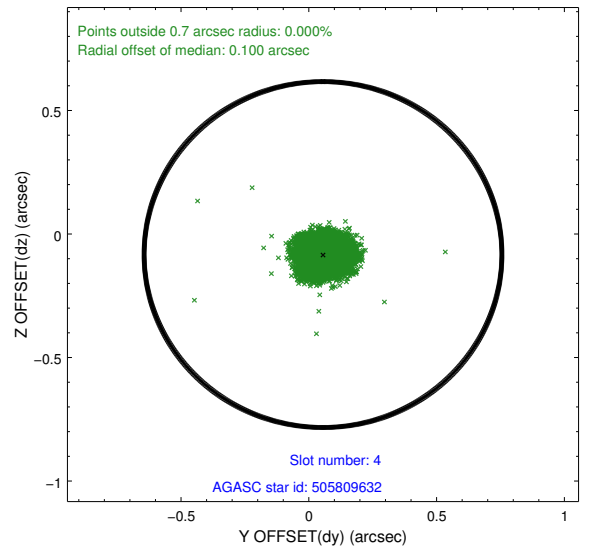
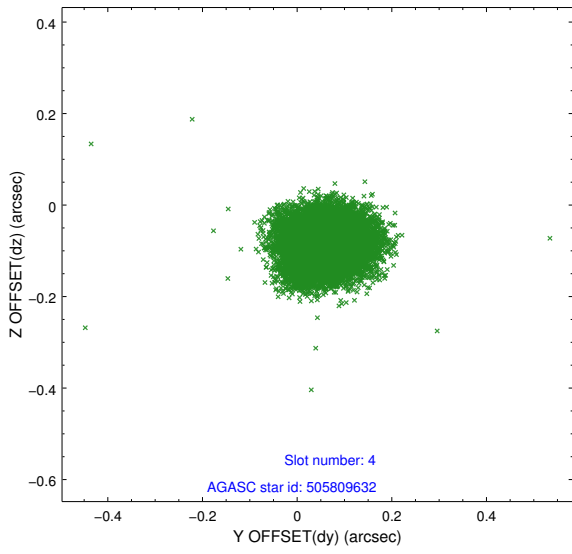
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.23	7115	0.036	-0.022	0.016	0.035	0.000000	0.000000	926.38	-838.66
1	FID		ACIS-I-5	7.22	7115	-0.207	0.039	0.008	0.014	0.000000	0.000000	-1821.93	1058.84
2	FID		ACIS-I-6	7.23	7115	0.080	0.053	0.012	0.031	0.000000	0.000000	391.88	1703.45
3	GUIDE	used	455871352	8.10	14228	0.073	0.086	0.073	0.121	215.099961	52.172669	-1802.92	-2297.74
4	GUIDE	used	505809632	8.05	14228	0.056	-0.083	0.065	0.104	215.499426	53.521185	1972.15	875.38
5	GUIDE	used	505812088	8.14	14229	0.061	-0.177	0.071	0.112	214.186617	53.263562	-779.39	1984.88
6	GUIDE	used	505812376	7.52	14229	-0.096	0.042	0.048	0.079	214.039537	52.937930	-1785.86	1304.71
7	GUIDE	used	505815928	8.32	14222	-0.097	0.124	0.088	0.136	216.234742	53.074559	2175.86	-1370.71

2.4 Star Slots

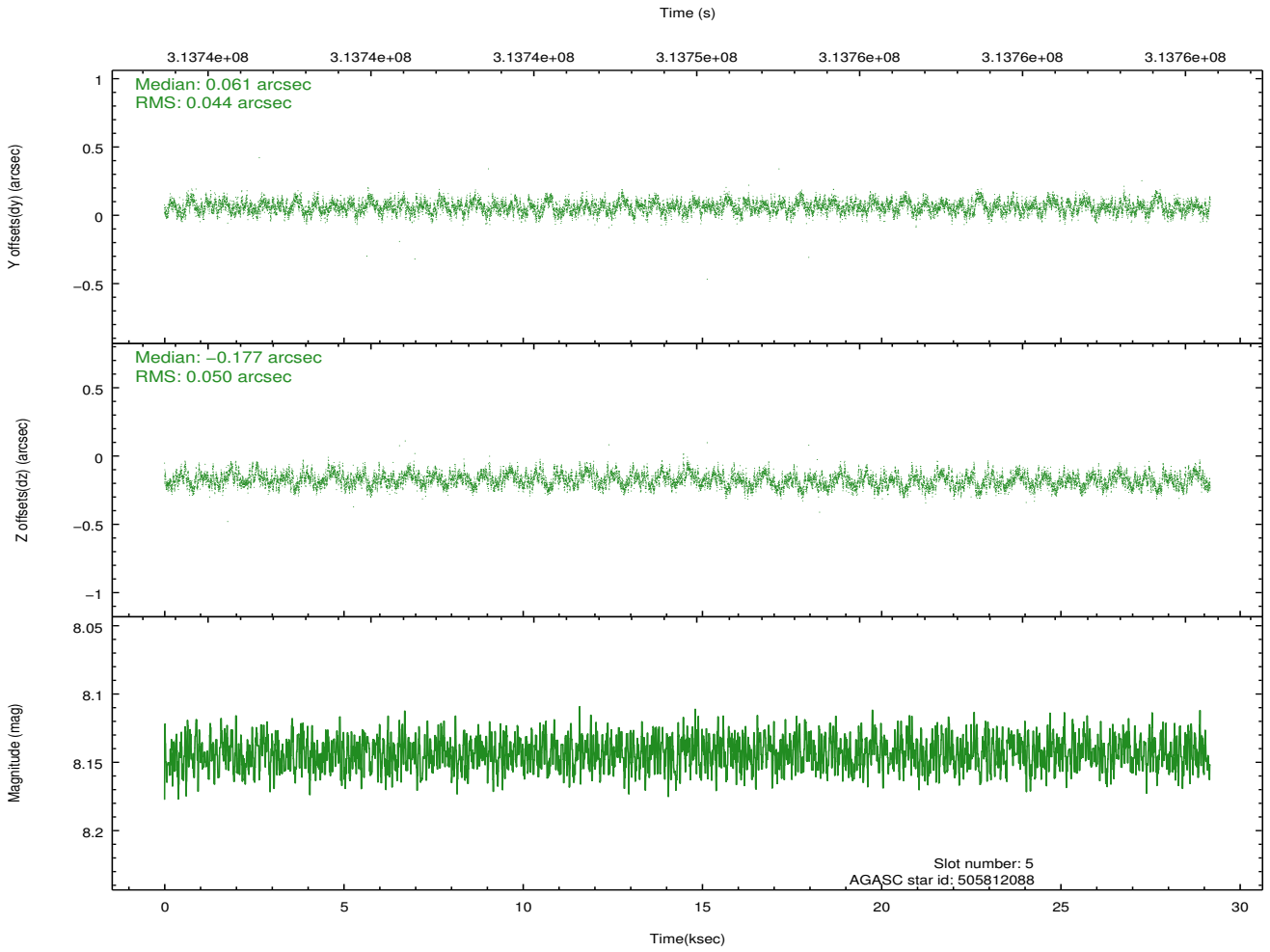
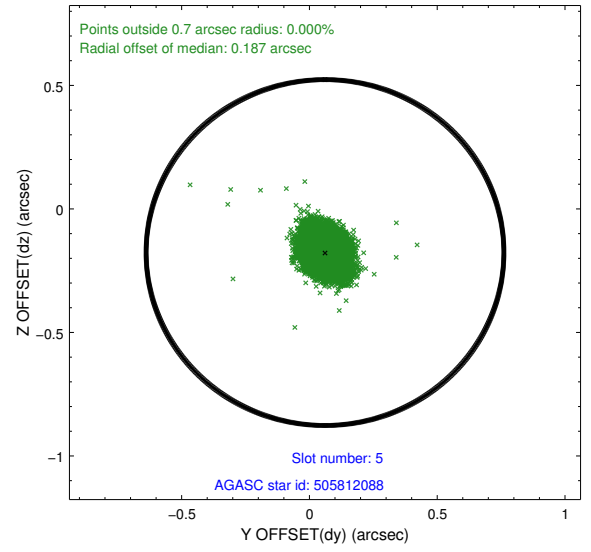
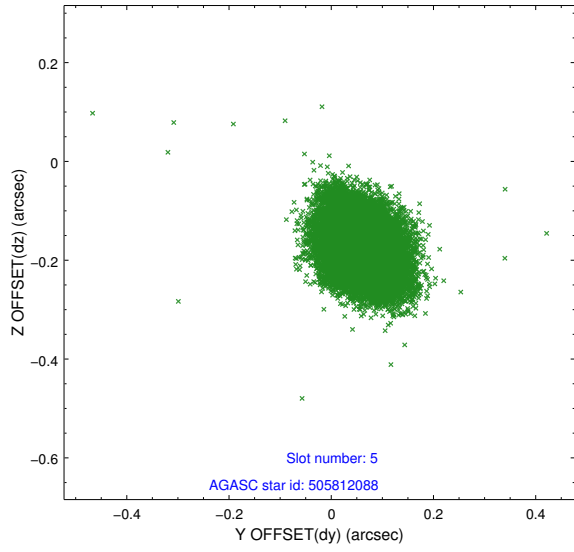
2.4.1 Slot 3



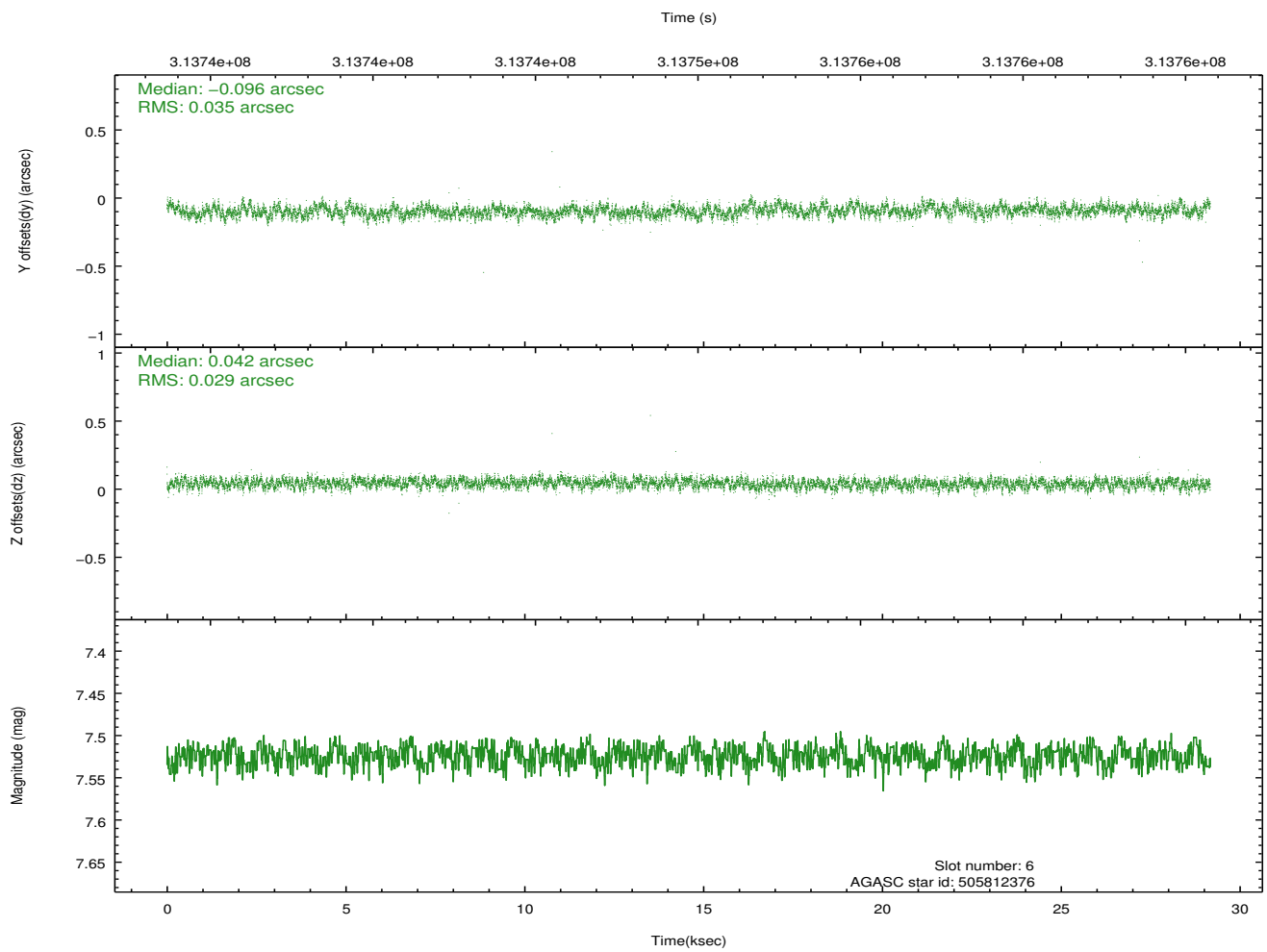
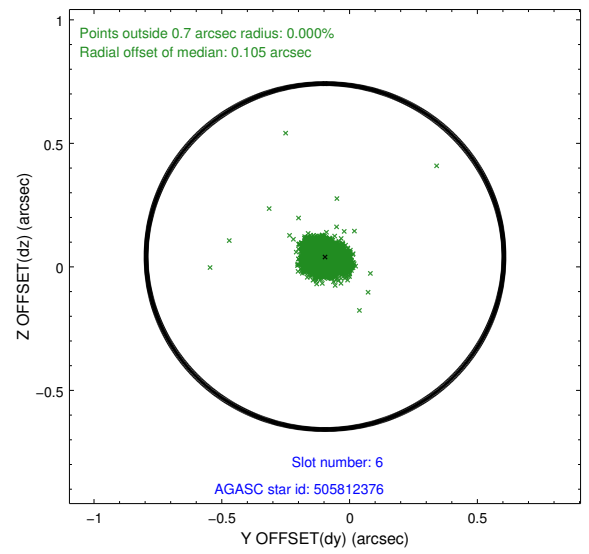
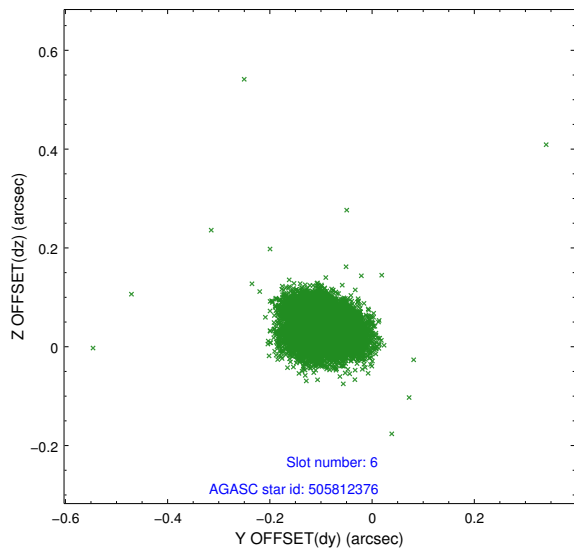
2.4.2 Slot 4



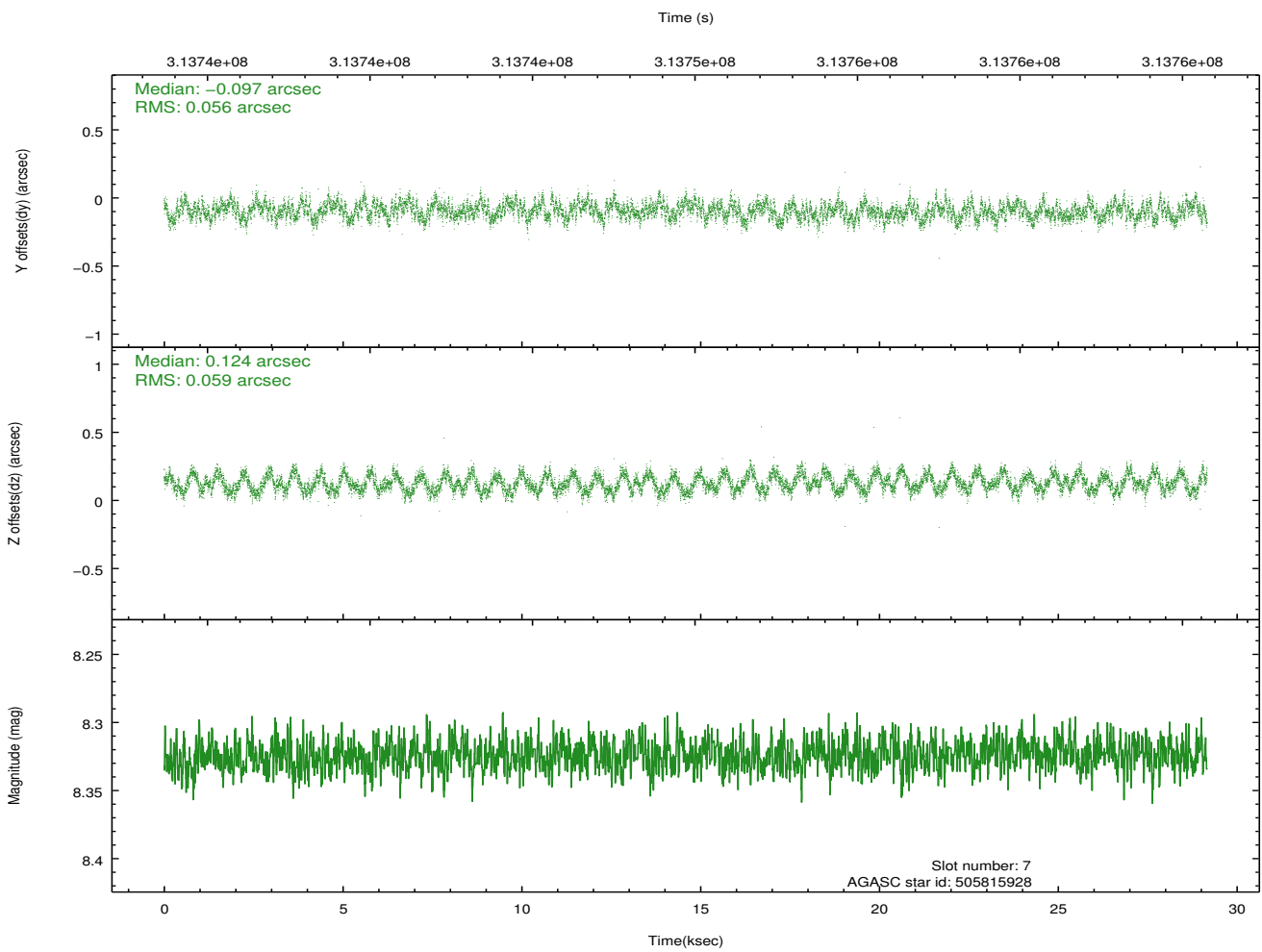
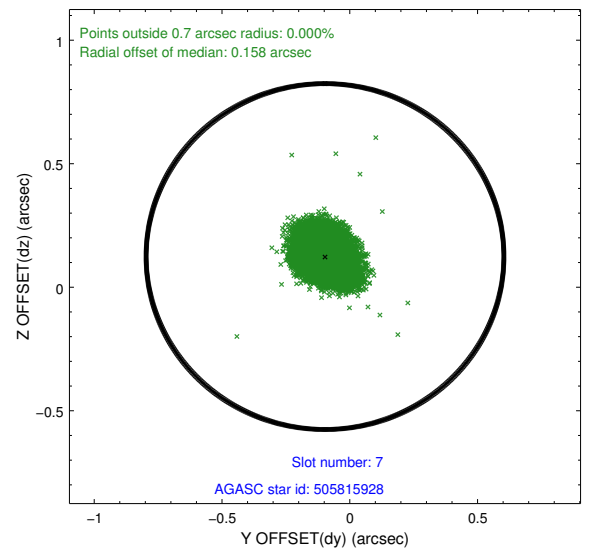
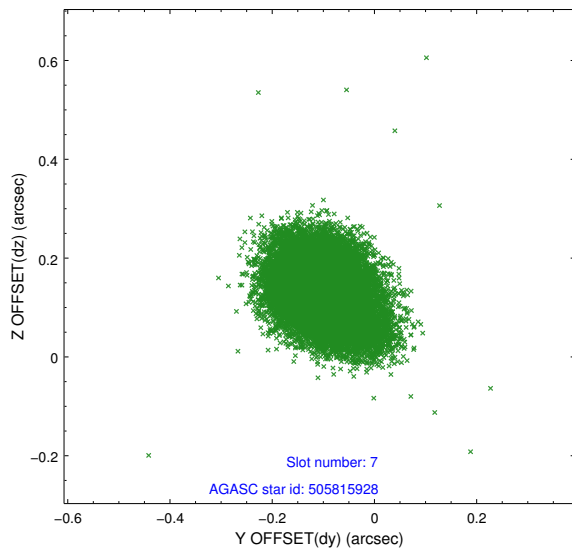
2.4.3 Slot 5



2.4.4 Slot 6

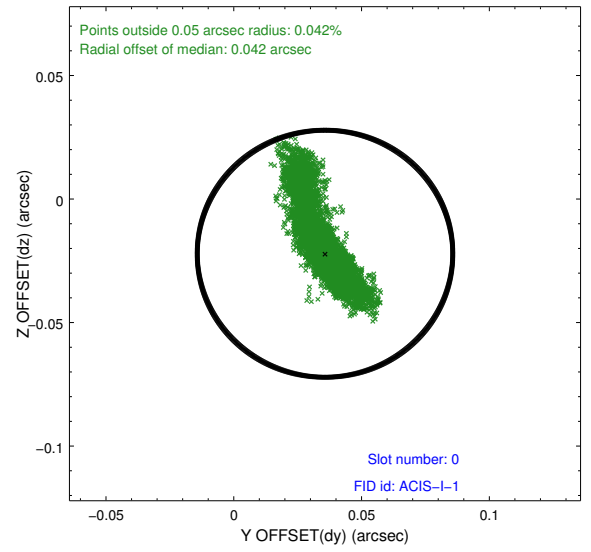
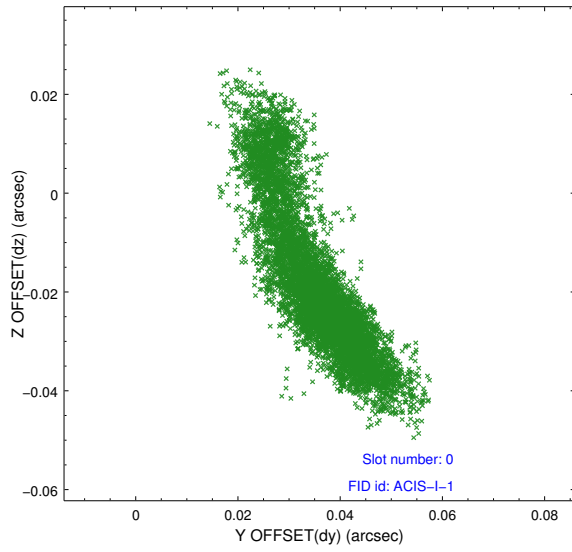


2.4.5 Slot 7

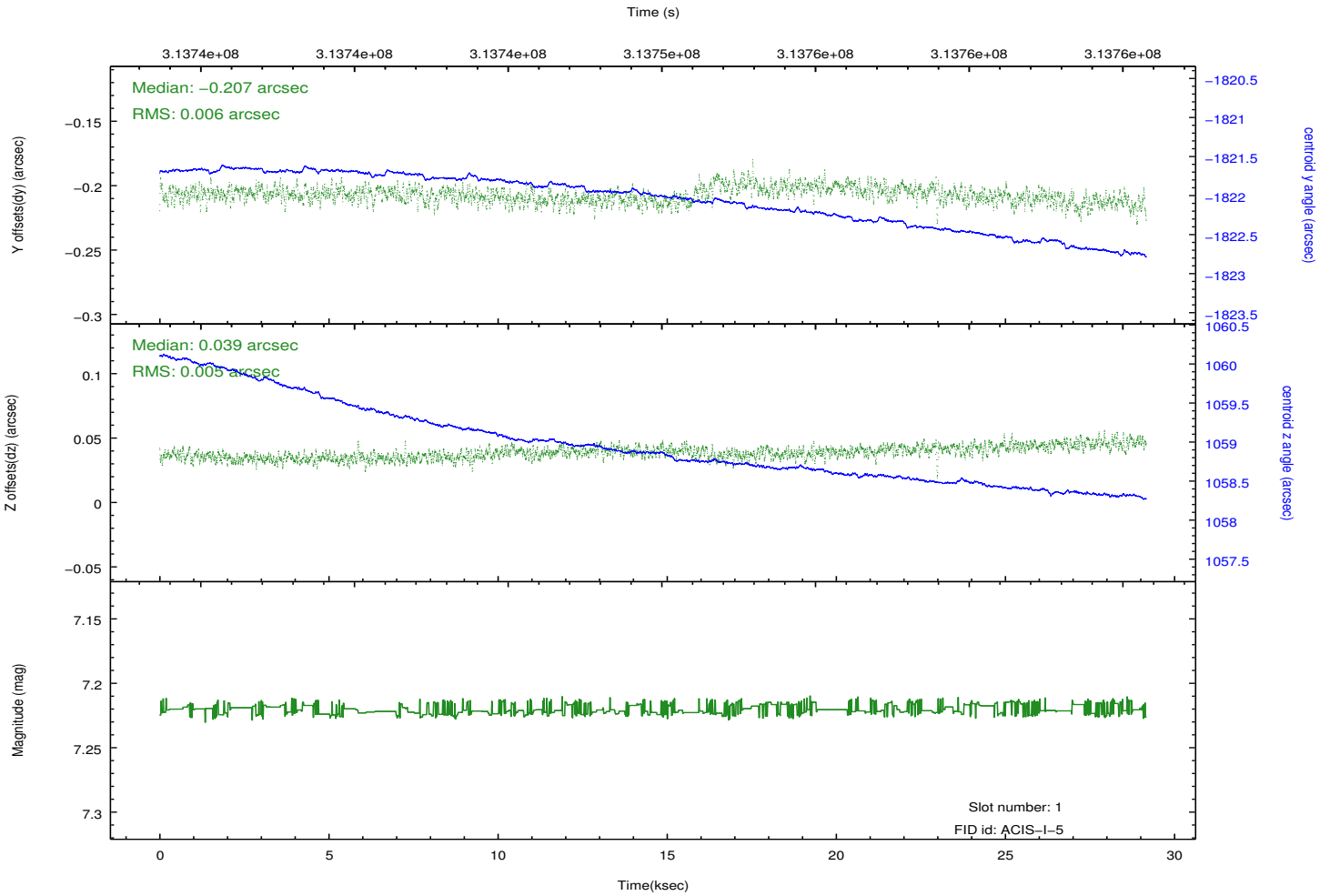
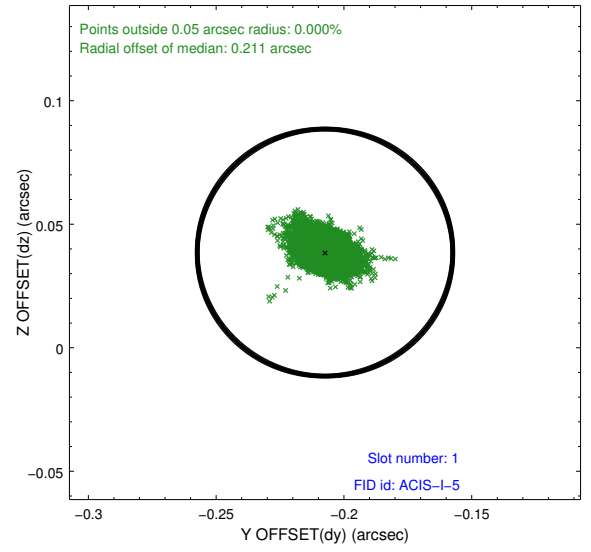
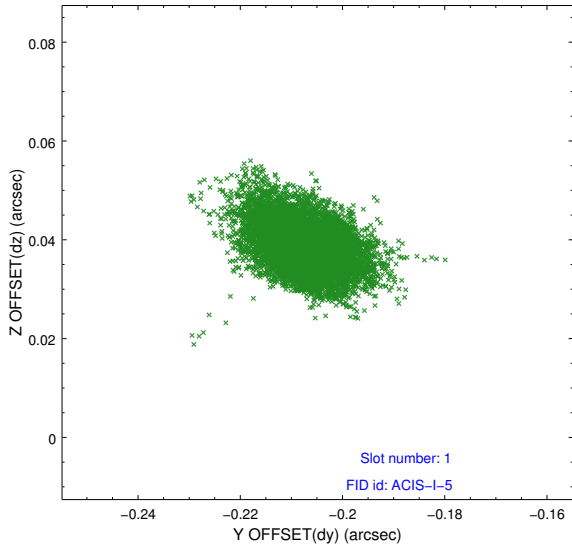


2.5 FID Slots

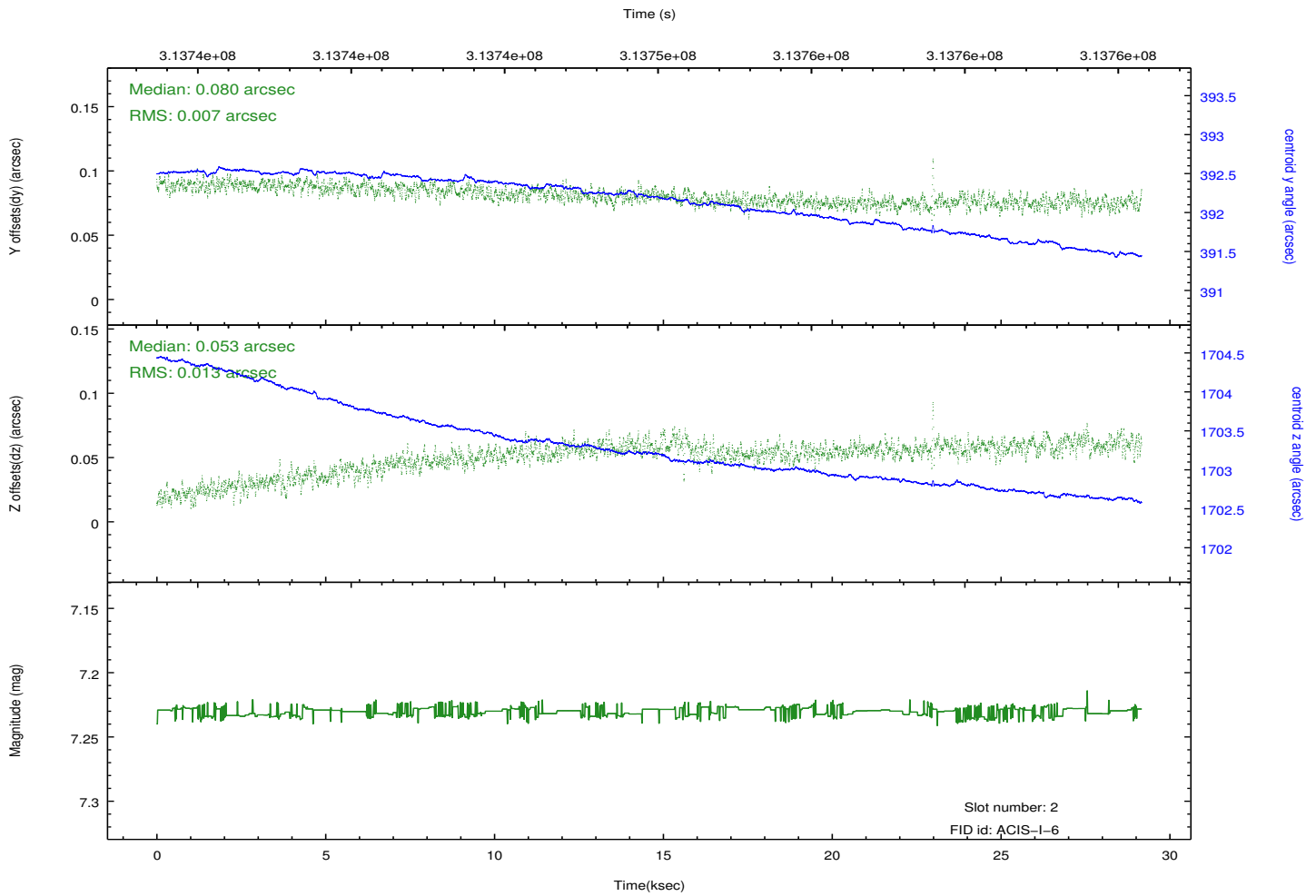
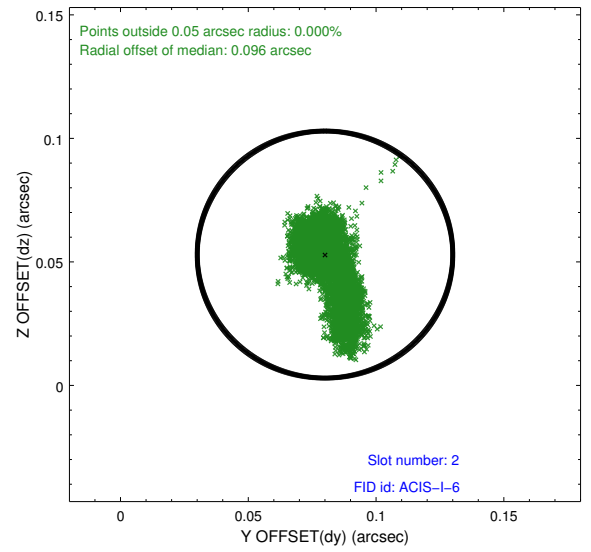
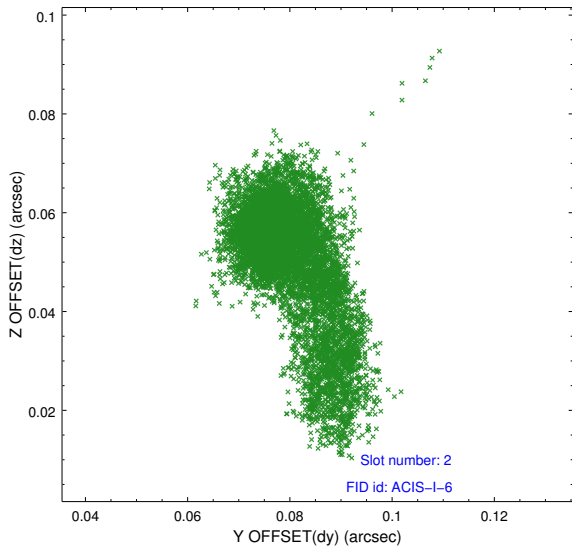
2.5.1 Slot 0



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)	2015.07.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.1585182

A.2 Comments

Joint proposal with Spitzer.

Roll preference met.

Because an aspect solution is determined in a finite time interval, a small number

of events registered within the delta time before the first aspect solution do not

have proper sky coordinates. We apply a manual workaround to exclude those

events with incorrect sky positions until the complete s/w resolution is obtained.