

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11563 - L2 Version 2
Chandra X-Ray Center

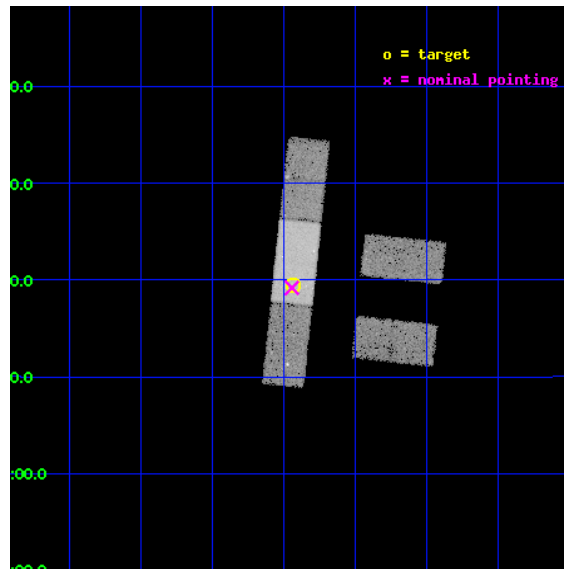
L2 Processing Date : Jun 22 2012

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1 Front

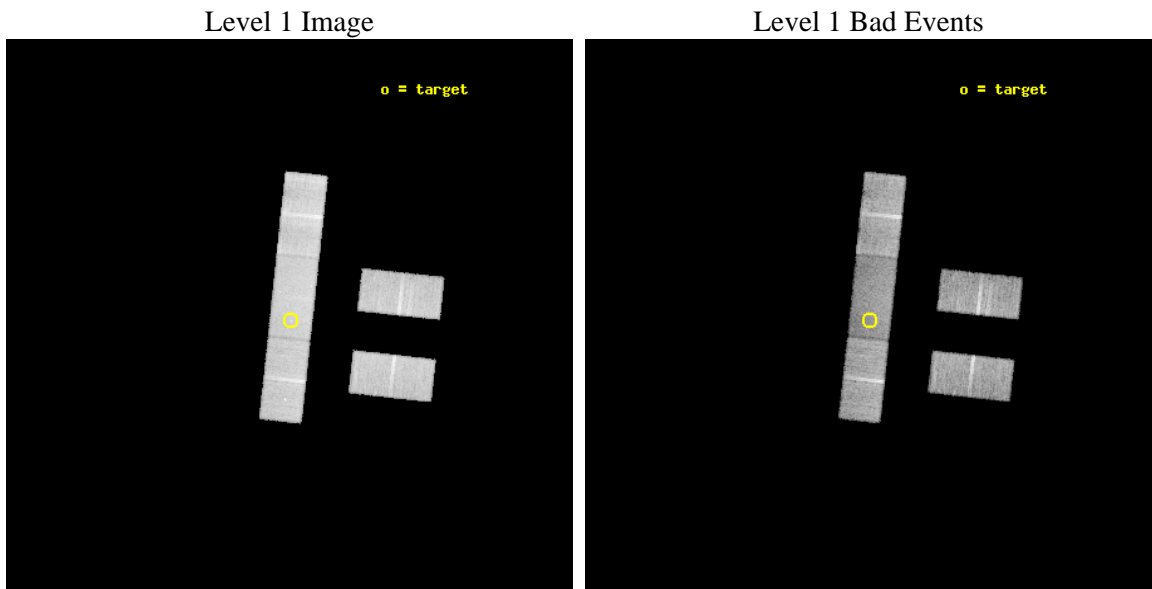
seq_num	702149	Sequence number
obs_id	11563	Observation id
title	The Size of Quasar Non-Thermal/X-ray Emission Regions	Proposal tit
observer	Prof. Christopher Kochanek	Principal investigator
object	SDSS0924+0219	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	141.232917	Observer's specified target RA [deg]
dec_targ	2.323583	Observer's specified target Dec [deg]
ra_nom	141.23591593872	Nominal RA [deg]
dec_nom	2.3197439915284	Nominal Dec [deg]
roll_nom	276.1565214031	Nominal Roll [deg]
revision	2	Processing version of data
ontime	21776.999847353	Sum of GTIs [s]
livetime	21263.669841301	Livetime [s]
ontime2	21776.999847353	Sum of GTIs [s]
ontime3	21776.999847353	Sum of GTIs [s]
ontime6	21776.999847353	Sum of GTIs [s]
ontime7	21776.999847353	Sum of GTIs [s]
ontime8	21776.999847353	Sum of GTIs [s]
l2events	84033	Number of level 2 events



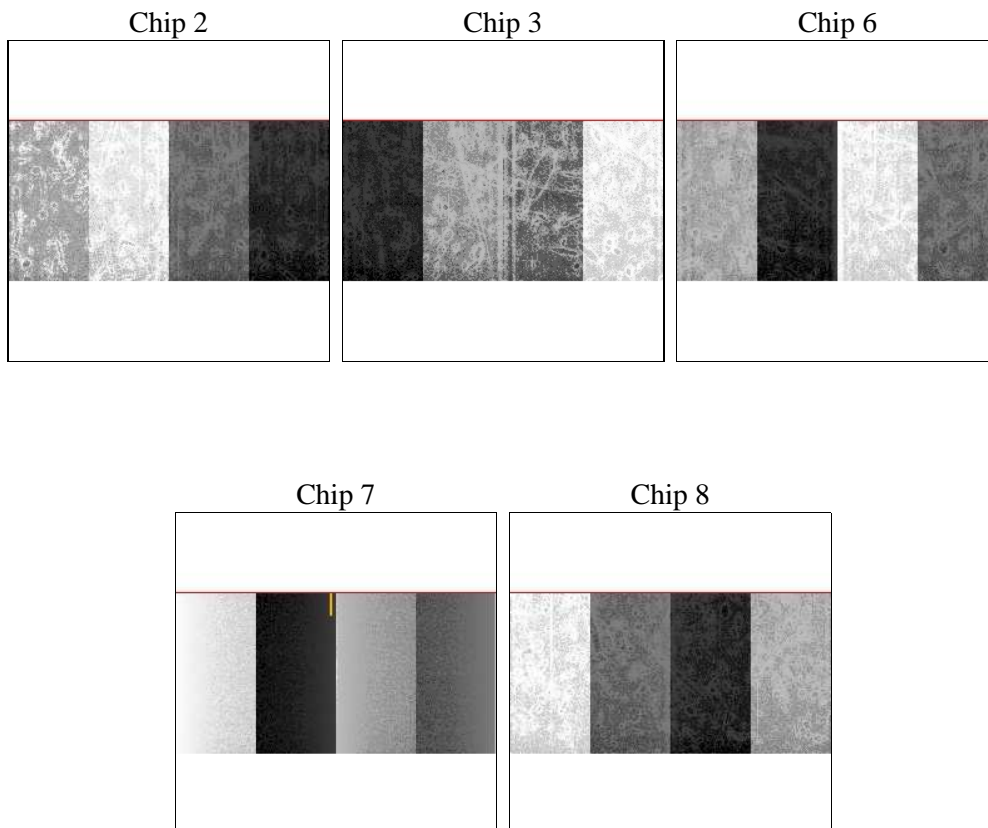
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	22000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	21776.999847353	Sum of GTIs [s]
caldbver	4.4.10	 	ontime2	21776.999847353	Sum of GTIs [s]
date	2012-06-22T16:16:02	Date and time of file creation	ontime3	21776.999847353	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	21776.999847353	Sum of GTIs [s]
			ontime7	21776.999847353	Sum of GTIs [s]
			ontime8	21776.999847353	Sum of GTIs [s]
			l1events	507273	Number of level 1 events

2.1.4 Events

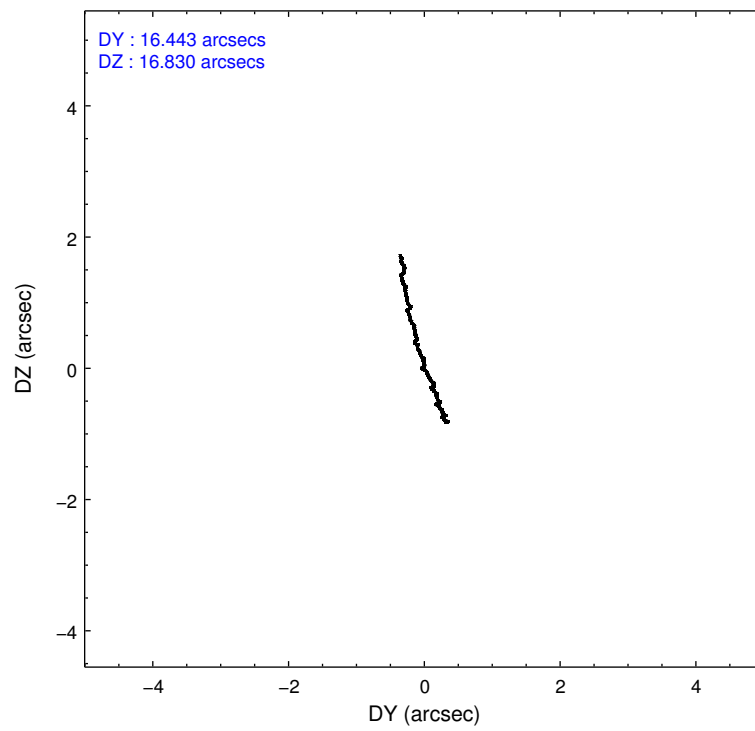
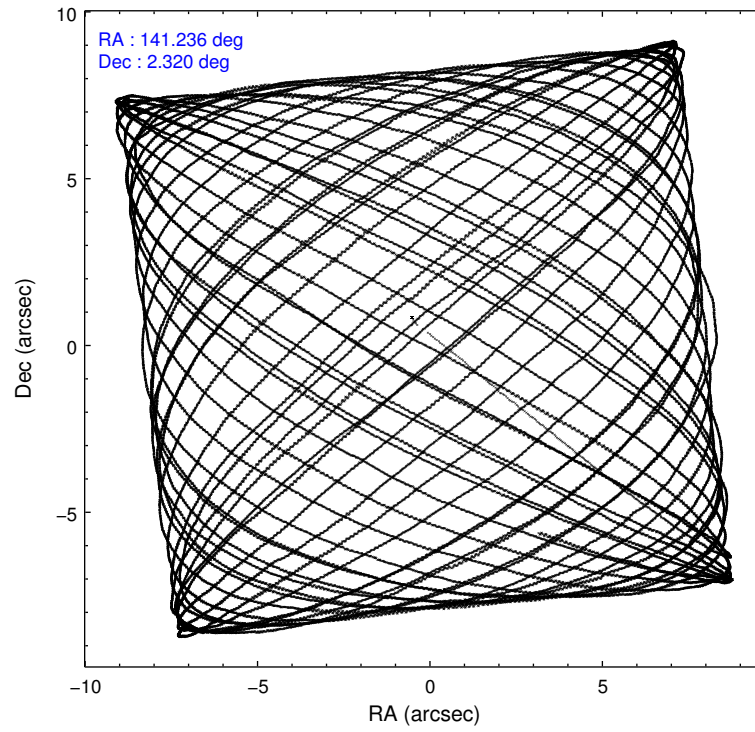
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	90431	90484	96092	107470	122796
rejected events	80868	81090	85199	57195	92398
rejected %	89%	89%	88%	53%	75%

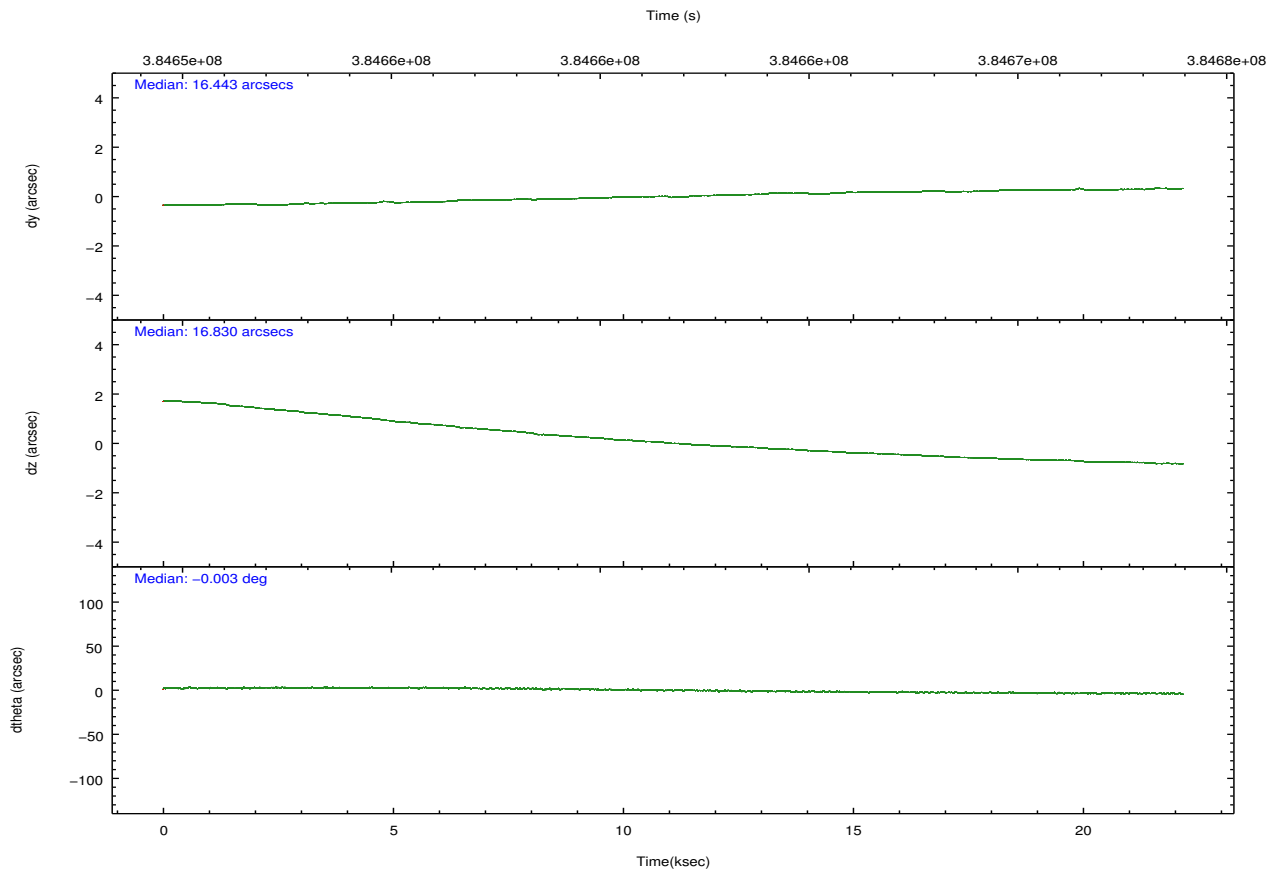
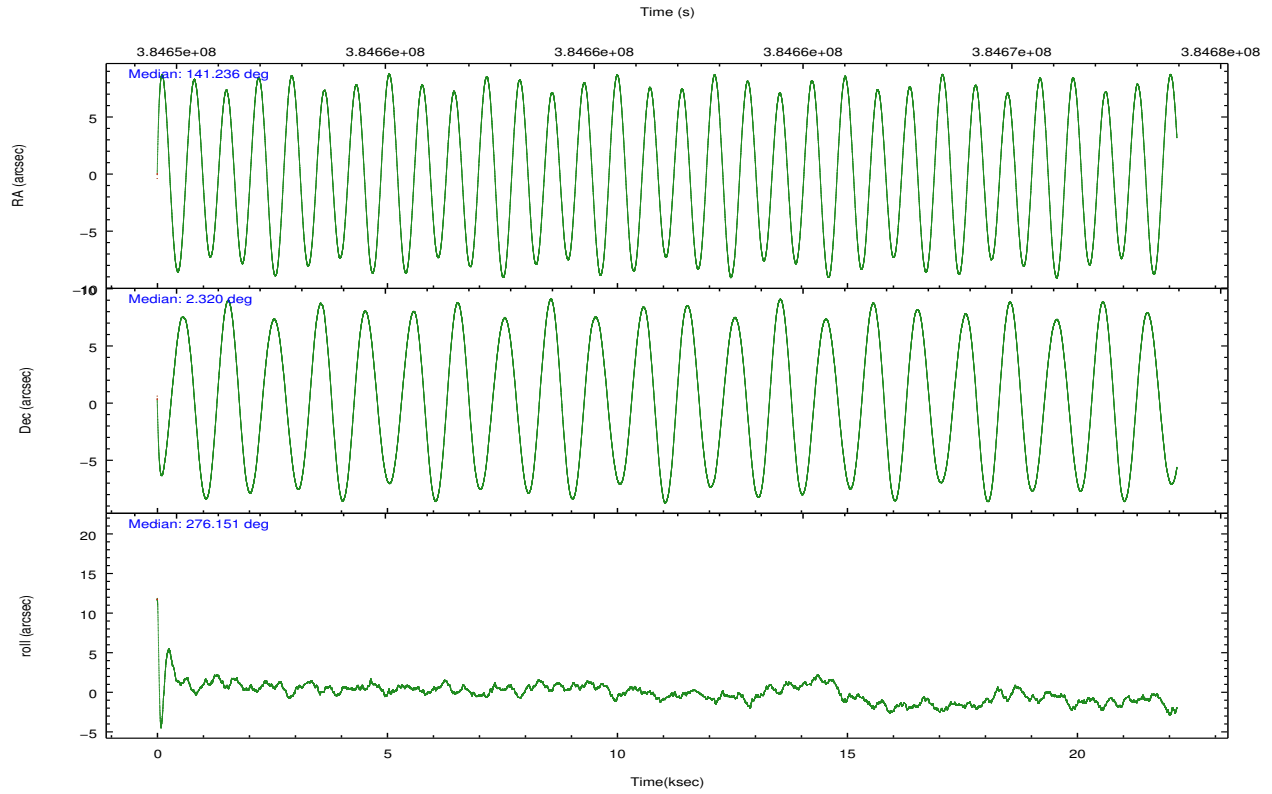
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3252	3185	3762	5005	8582
	3%	3%	3%	4%	6%
grade 1 events	47	46	45	148	64
	0%	0%	0%	0%	0%
grade 2 events	2087	1979	2270	10735	7002
	2%	2%	2%	9%	5%
grade 3 events	1237	1197	1381	5008	3317
	1%	1%	1%	4%	2%
grade 4 events	1256	1255	1249	4892	3123
	1%	1%	1%	4%	2%
grade 5 events	3211	3863	3952	11244	5572
	3%	4%	4%	10%	4%
grade 6 events	1734	1778	2231	24641	8377
	1%	1%	2%	22%	6%
grade 7 events	77607	77181	81202	45797	86759
	85%	85%	84%	42%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	141.219444	141.235915938724	CCD I2 on	O4	Y
[deg] Pointing Dec	2.341610	2.31974399152839	CCD I3 on	O3	Y
[deg] Pointing Roll	276.000548	276.1565214030953	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-190.132523	-190.145094680475	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01257209746719923	CCD S4 on	O2	Y
[s] Observation start time (MET)	384650819.184000	384649513.22602	CCD S5 on	N	N
Observation start date	2010-03-10T23:25:53	2010-03-10T23:05:13	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	384672819.184000	384673597.13974	On-chip summing requested	N	N
Observation end date	2010-03-11T05:32:33	2010-03-11T05:46:37	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.7

2.3 Aspect



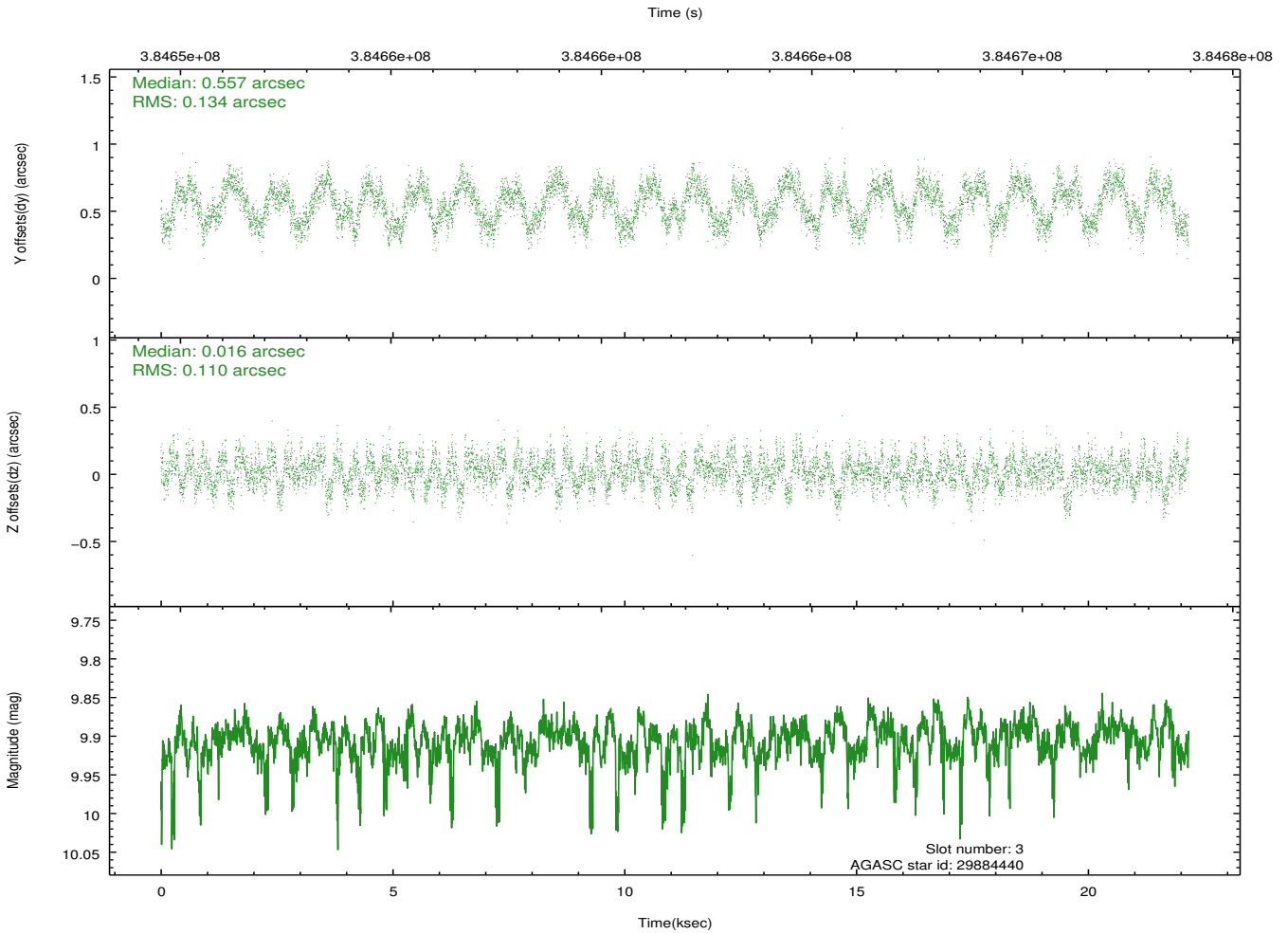
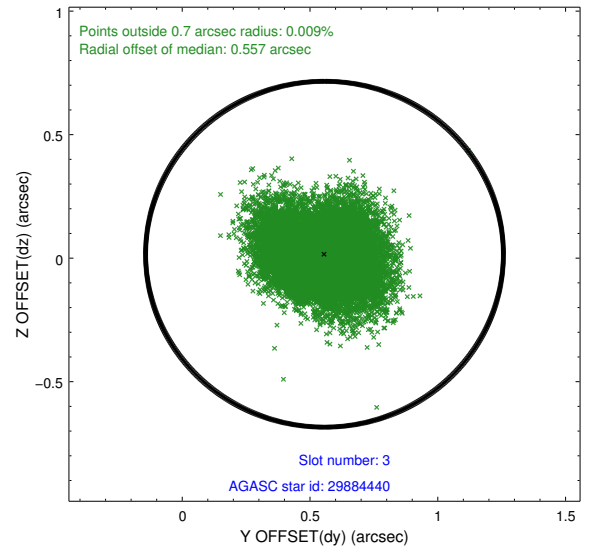
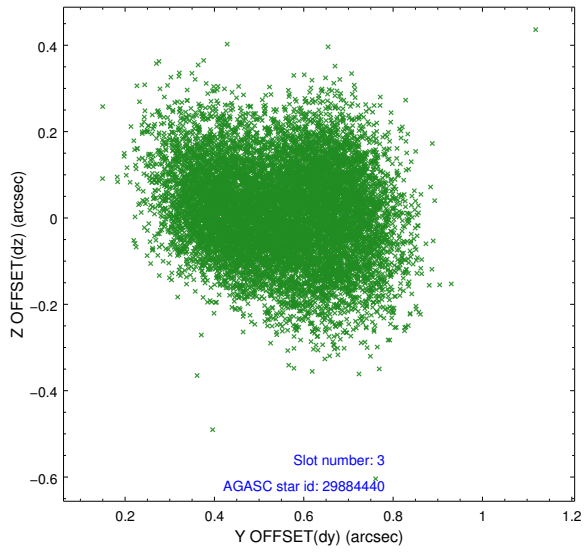


Slot Statistics

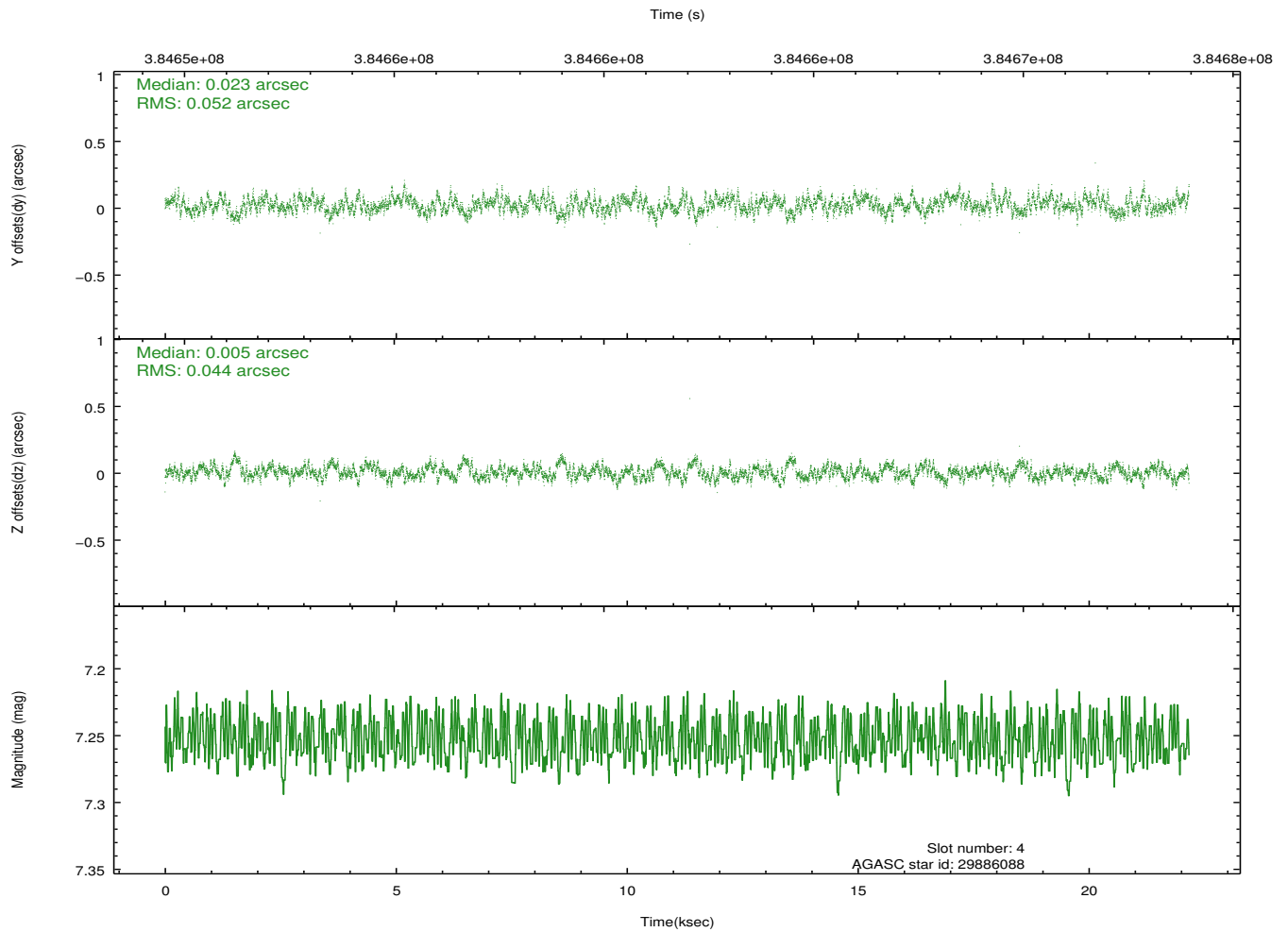
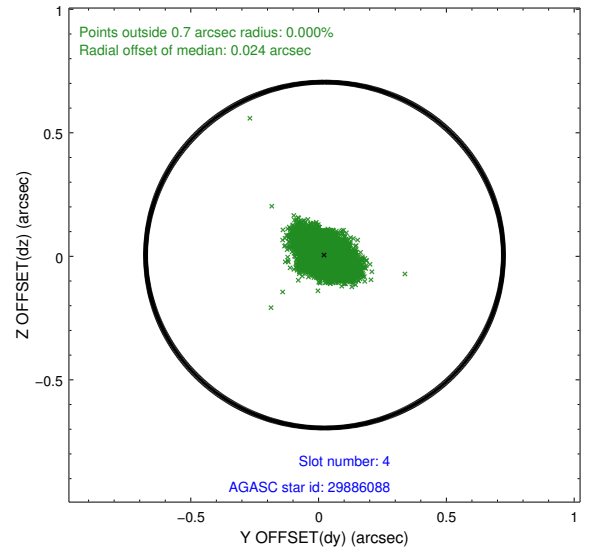
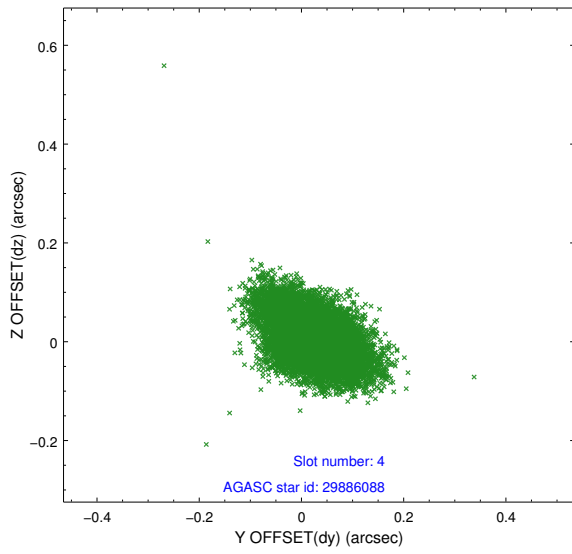
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.90	5408	-0.075	-0.024	0.015	0.025	0.000000	0.000000	-769.54	-1738.36
1	FID	ACIS-S-4	6.98	5408	0.155	0.043	0.010	0.017	0.000000	0.000000	2143.92	169.99
2	FID	ACIS-S-5	7.01	5408	-0.112	-0.010	0.014	0.022	0.000000	0.000000	-1822.20	163.83
3	GUIDE	29884440	9.91	10798	0.557	0.016	0.188	0.283	141.753064	2.468510	-253.64	1956.78
4	GUIDE	29886088	7.25	10815	0.023	0.005	0.071	0.121	140.911389	2.409953	-360.38	-1075.73
5	GUIDE	30288600	9.07	10810	-0.077	0.058	0.100	0.156	141.552019	2.678221	-1080.10	1316.50
6	GUIDE	30292744	8.53	10807	-0.216	0.084	0.079	0.128	141.614493	2.506173	-441.14	1474.88
7	GUIDE	30288368	7.55	10812	-0.281	-0.161	0.061	0.101	141.501110	3.030300	-2360.35	1266.30

2.4 Star Slots

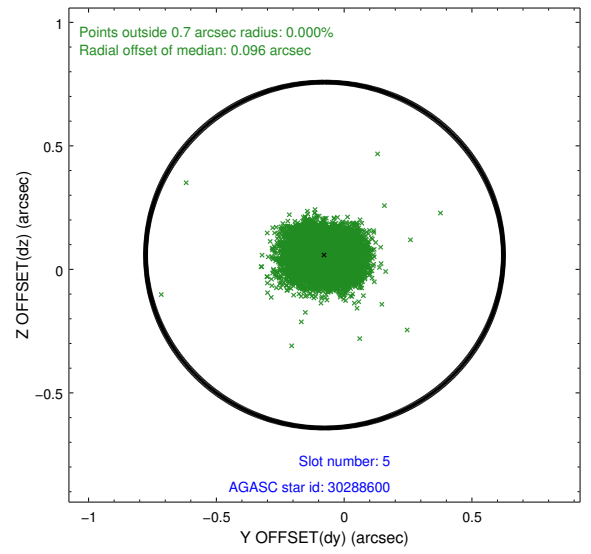
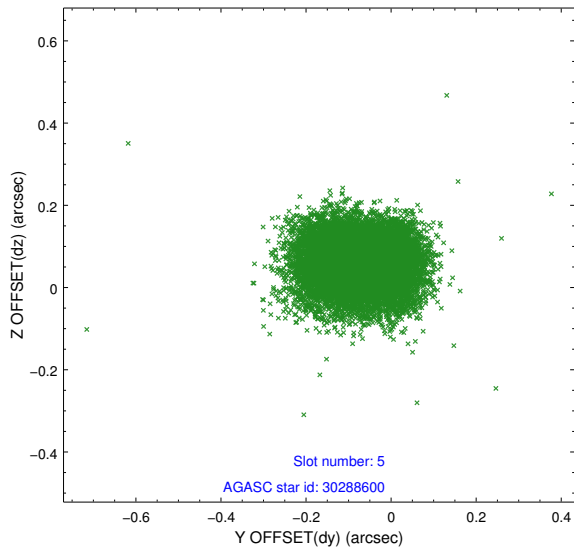
2.4.1 Slot 3



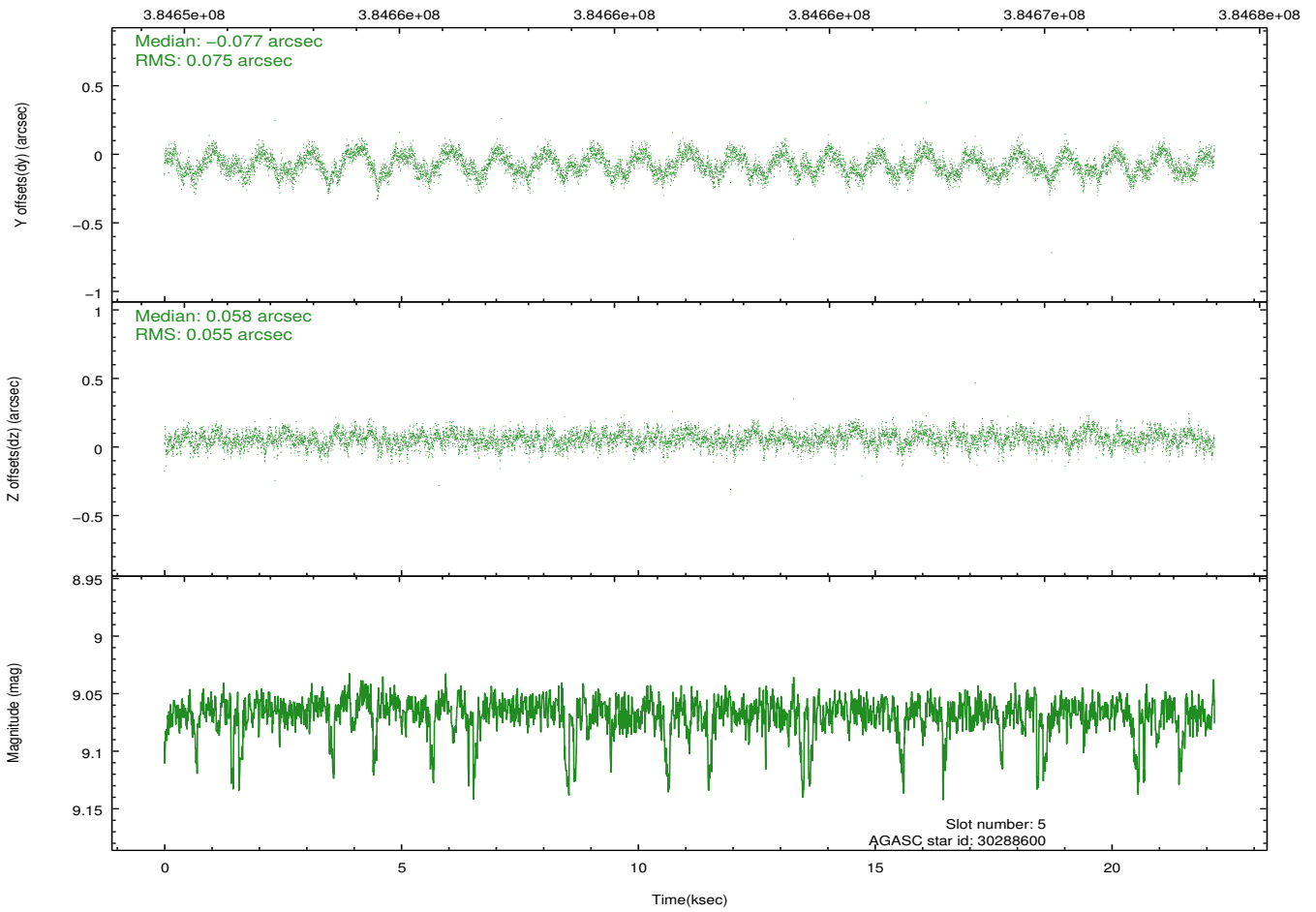
2.4.2 Slot 4



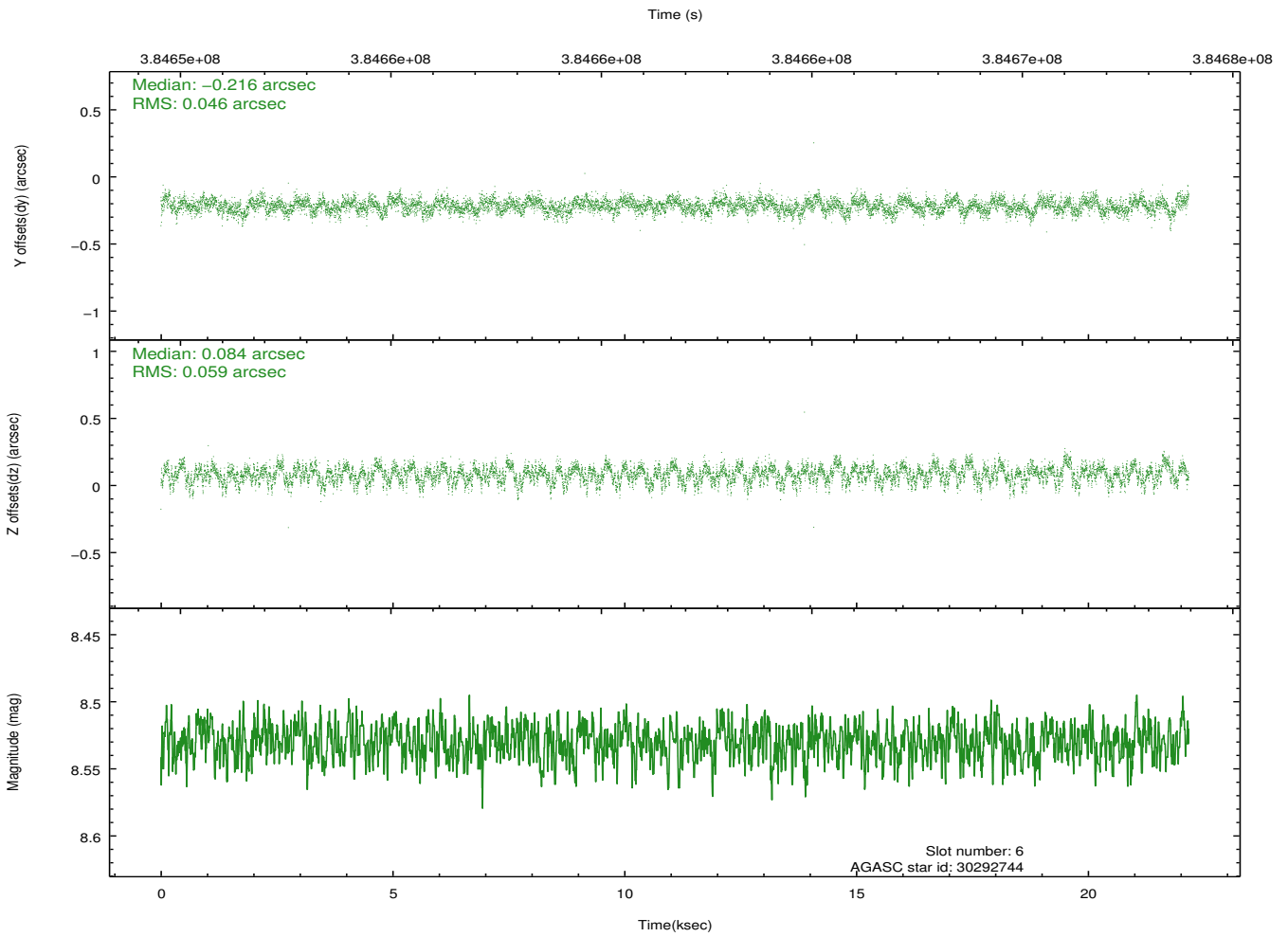
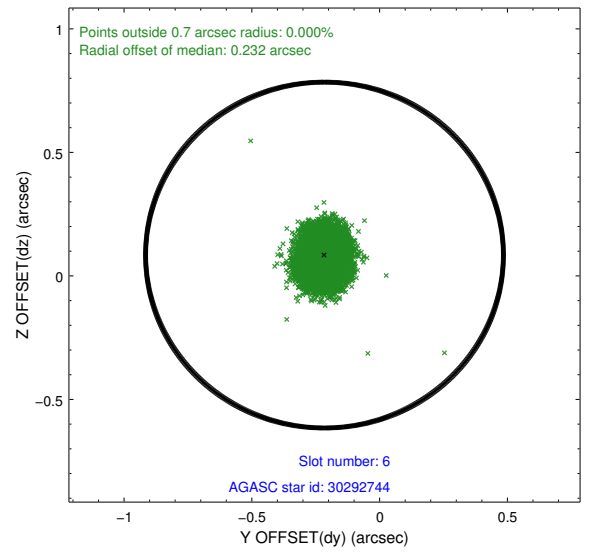
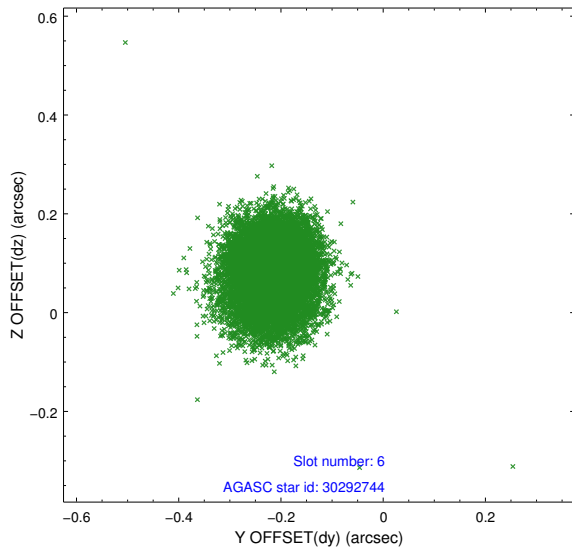
2.4.3 Slot 5



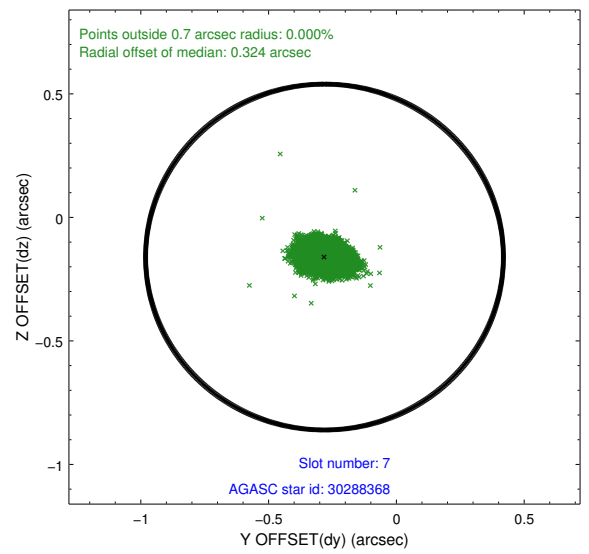
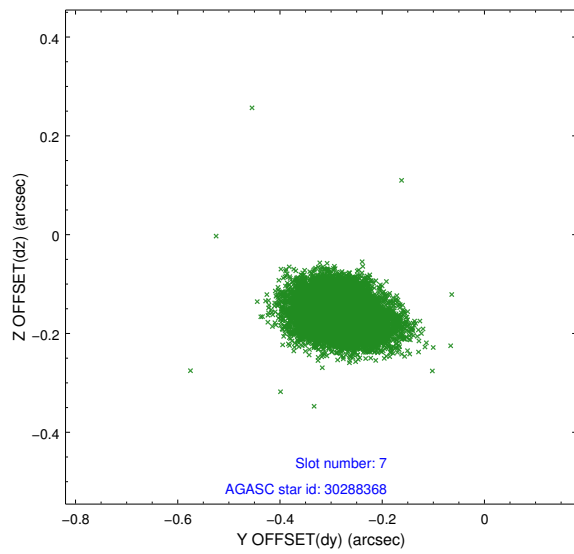
Time (s)



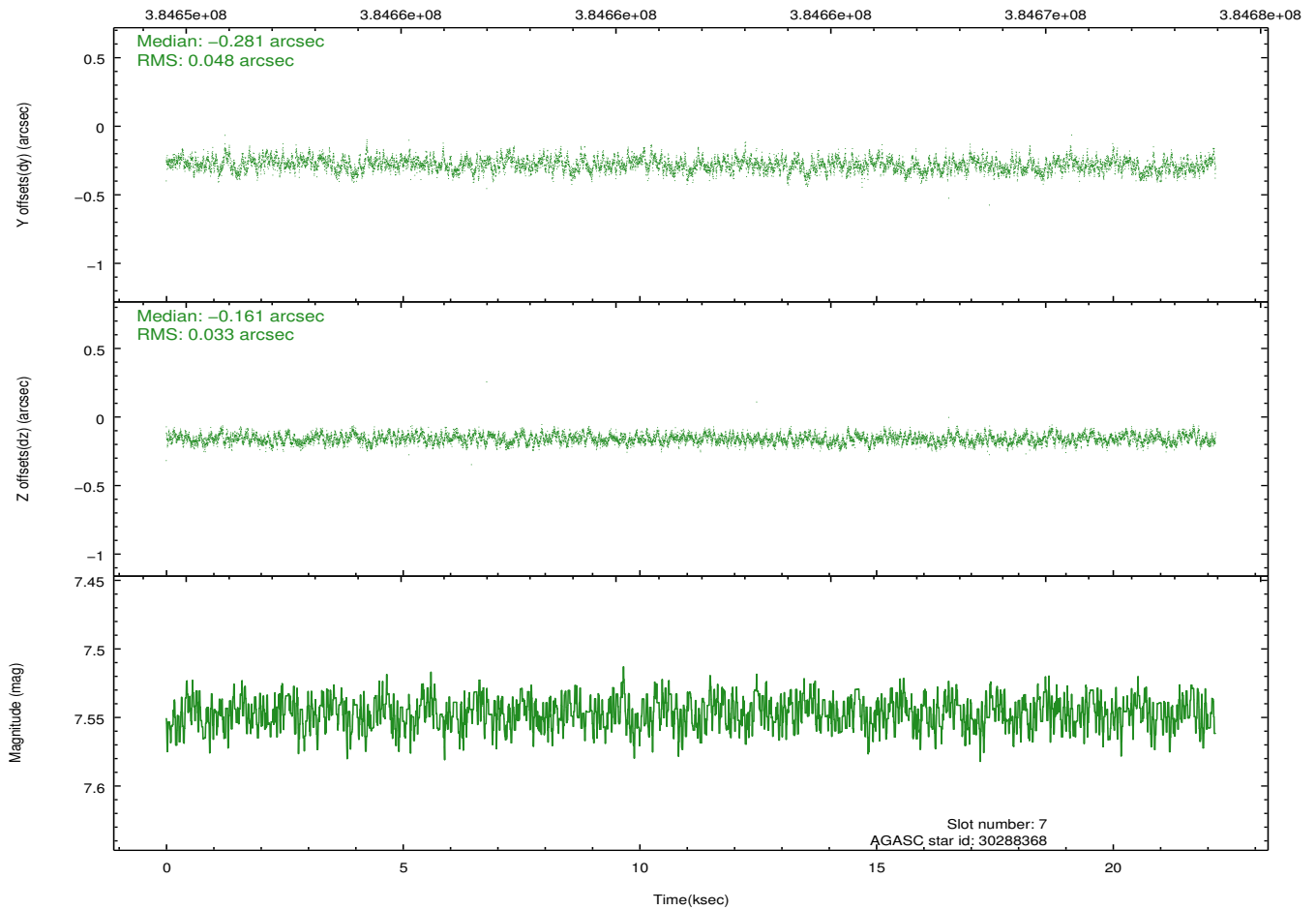
2.4.4 Slot 6



2.4.5 Slot 7

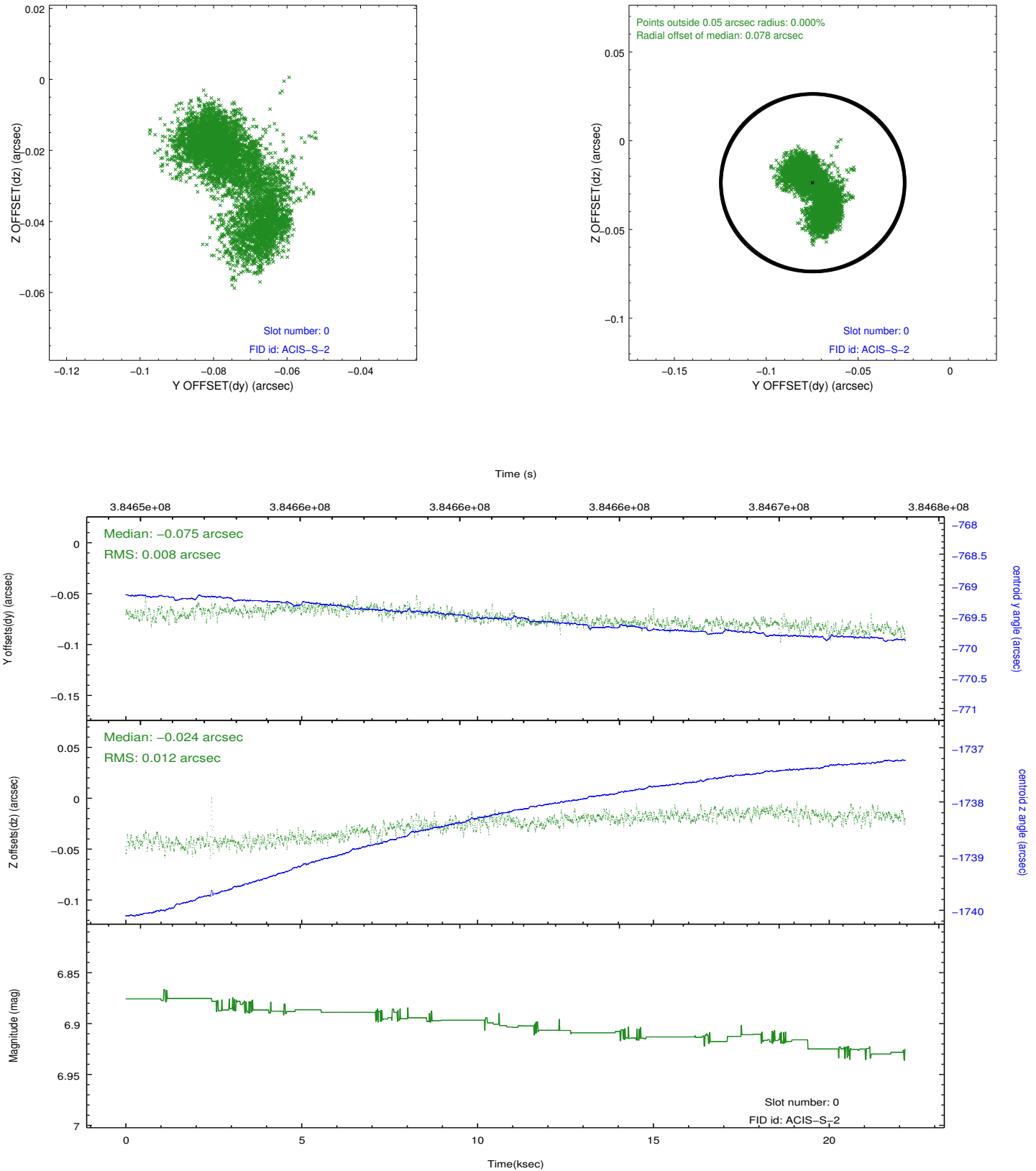


Time (s)

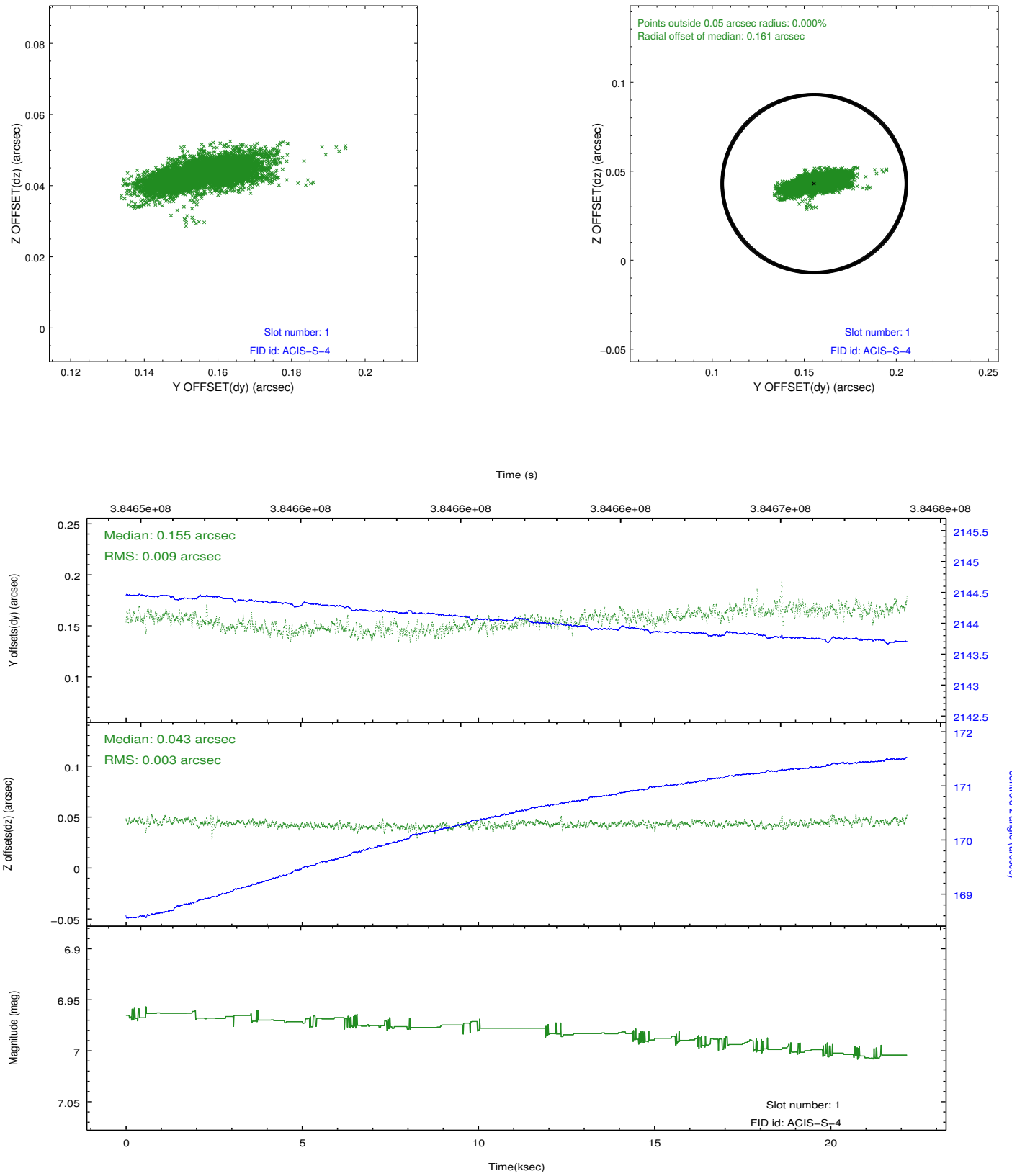


2.5 FID Slots

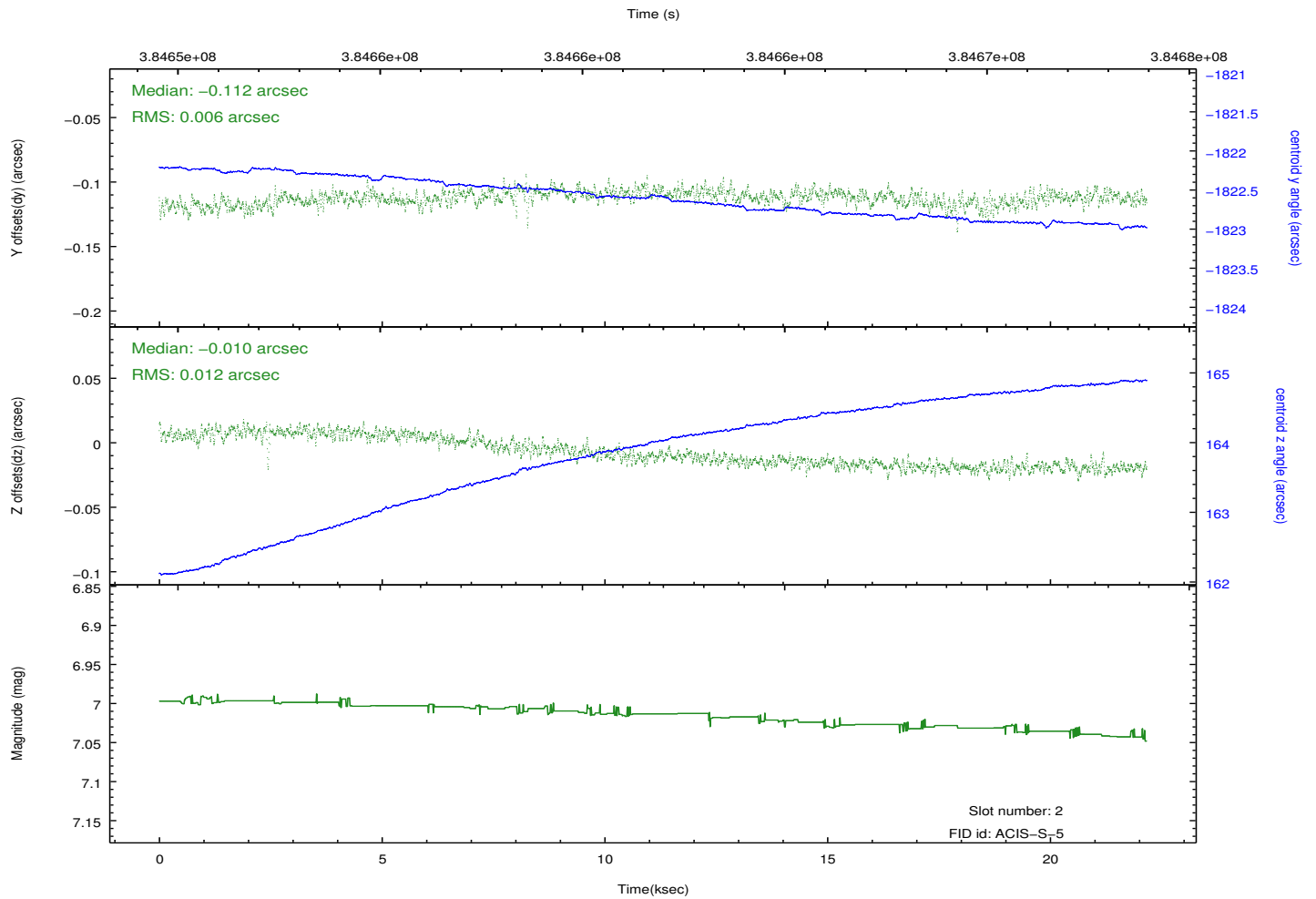
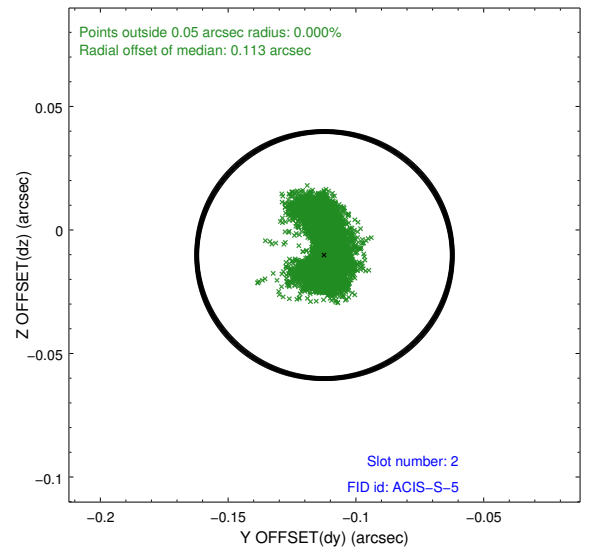
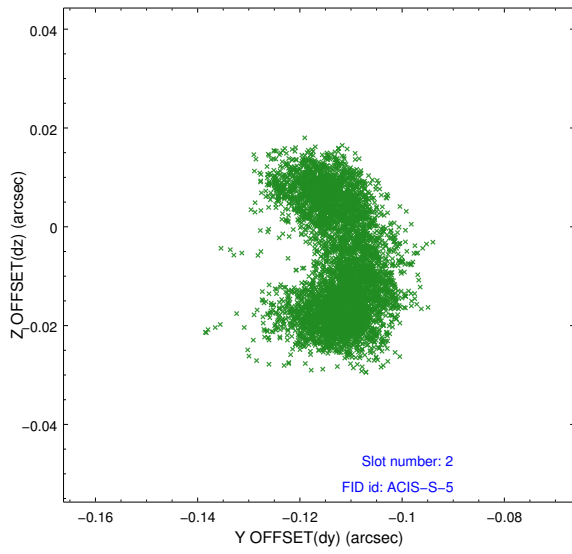
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.776999847353

A.2 Comments