

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 9250 - L2 Version 3
Chandra X-Ray Center

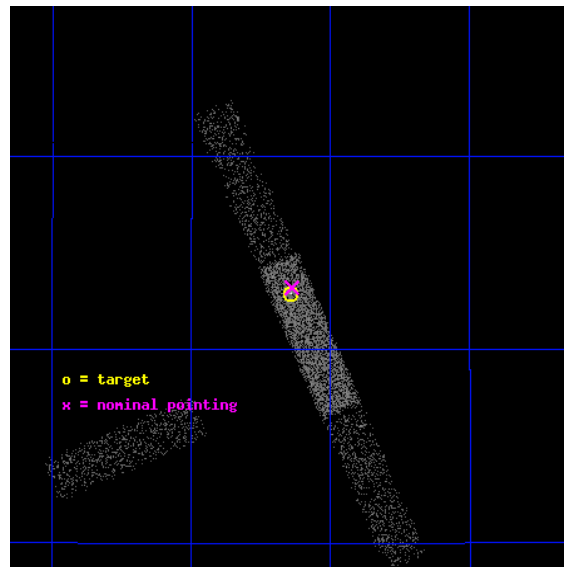
L2 Processing Date : Jun 6 2012

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1 Front

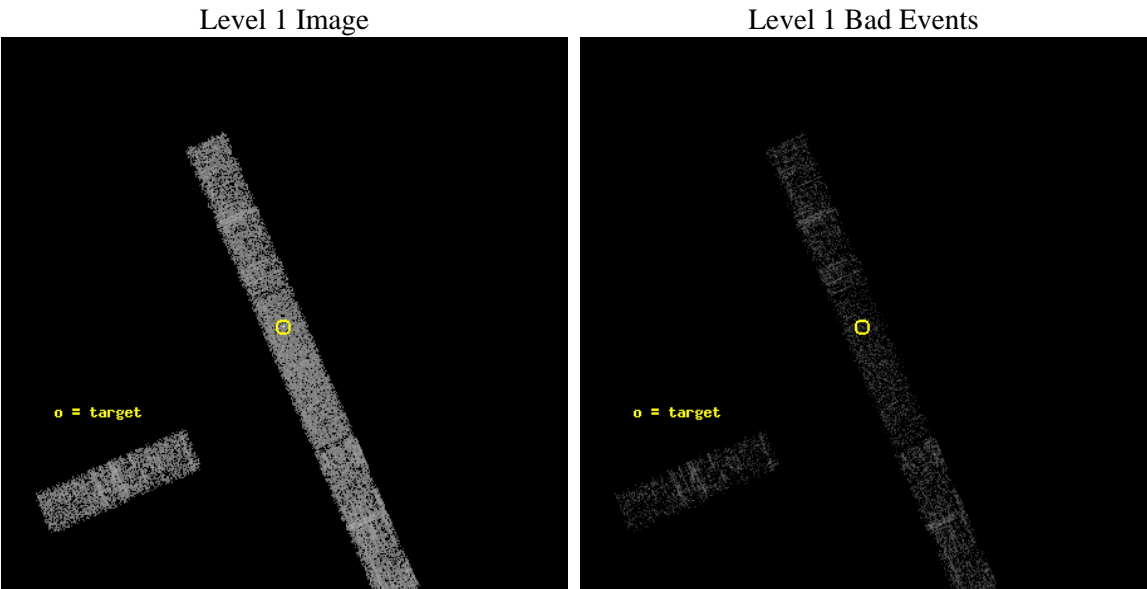
seq_num	701691	Sequence number
obs_id	9250	Observation id
title	Orientation effects in the X-ray and multi-wavelength properties of high-z, 3CRR quasars.	Proposal title
observer	Dr. Belinda Wilkes	Principal investigator
object	3CRR 208	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	133.285833	Observer's specified target RA [deg]
dec_targ	13.881472	Observer's specified target Dec [deg]
ra_nom	133.28492512099	Nominal RA [deg]
dec_nom	13.886395307153	Nominal Dec [deg]
roll_nom	66.634824041757	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3132.0	Sum of GTIs [s]
livetime	3008.5299316069	Livetime [s]
ontime3	3132.0	Sum of GTIs [s]
ontime6	3132.0	Sum of GTIs [s]
ontime7	3132.0	Sum of GTIs [s]
ontime8	3132.0	Sum of GTIs [s]
l2events	7653	Number of level 2 events



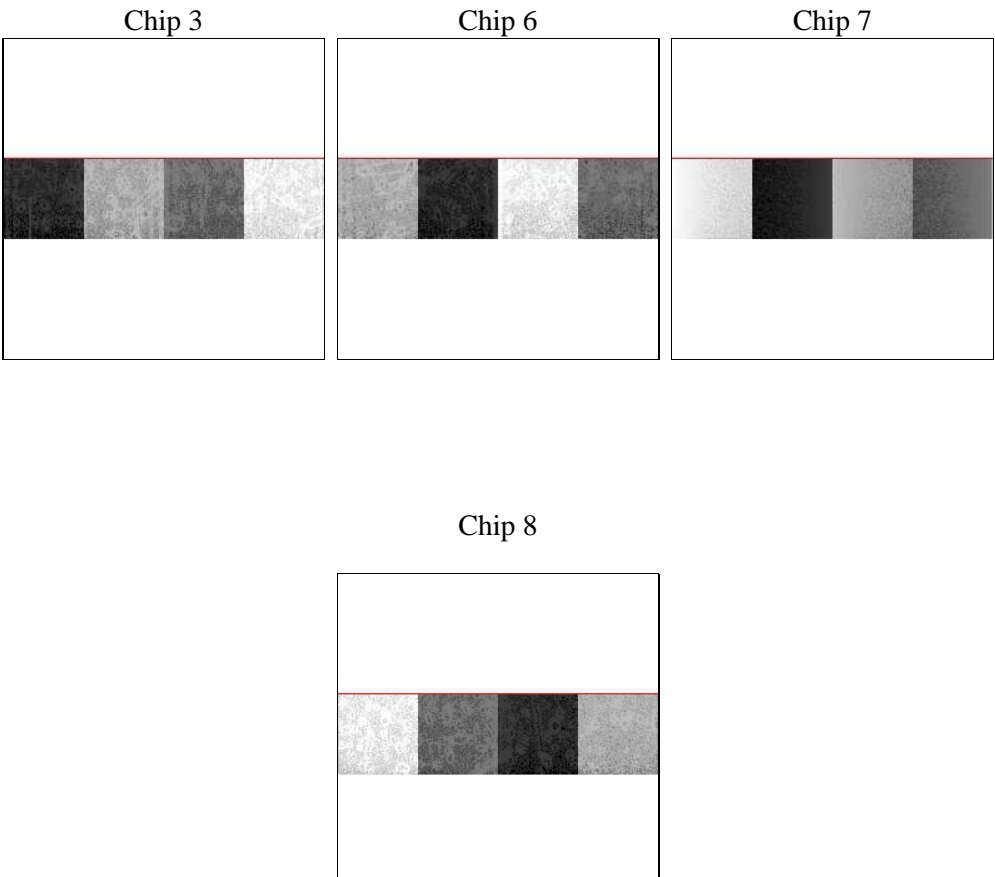
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3132.0	Sum of GTIs [s]
caldsver	4.4.10	 	ontime3	3132.0	Sum of GTIs [s]
date	2012-06-06T20:38:19	Date and time of file creation	ontime6	3132.0	Sum of GTIs [s]
revision	3	Processing version of data	ontime7	3132.0	Sum of GTIs [s]
			ontime8	3132.0	Sum of GTIs [s]
			l1events	54633	Number of level 1 events

2.1.4 Events

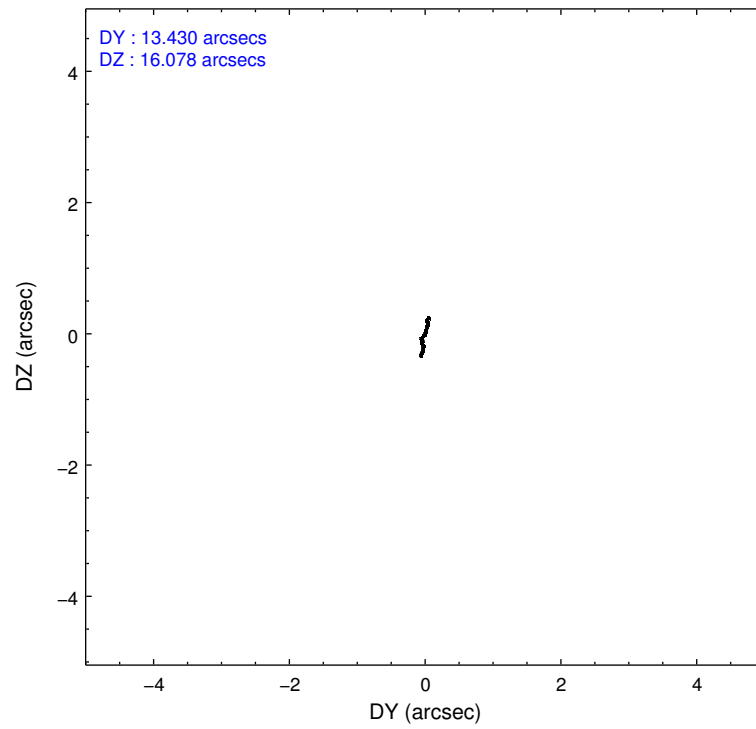
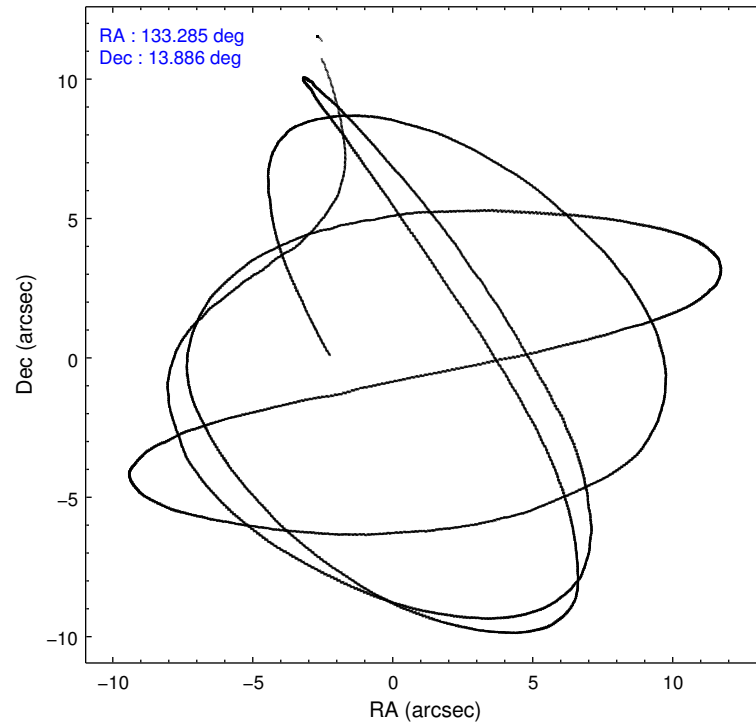
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	10946	12419	15101	16167
rejected events	9932	11371	9986	13440
rejected %	90%	91%	66%	83%

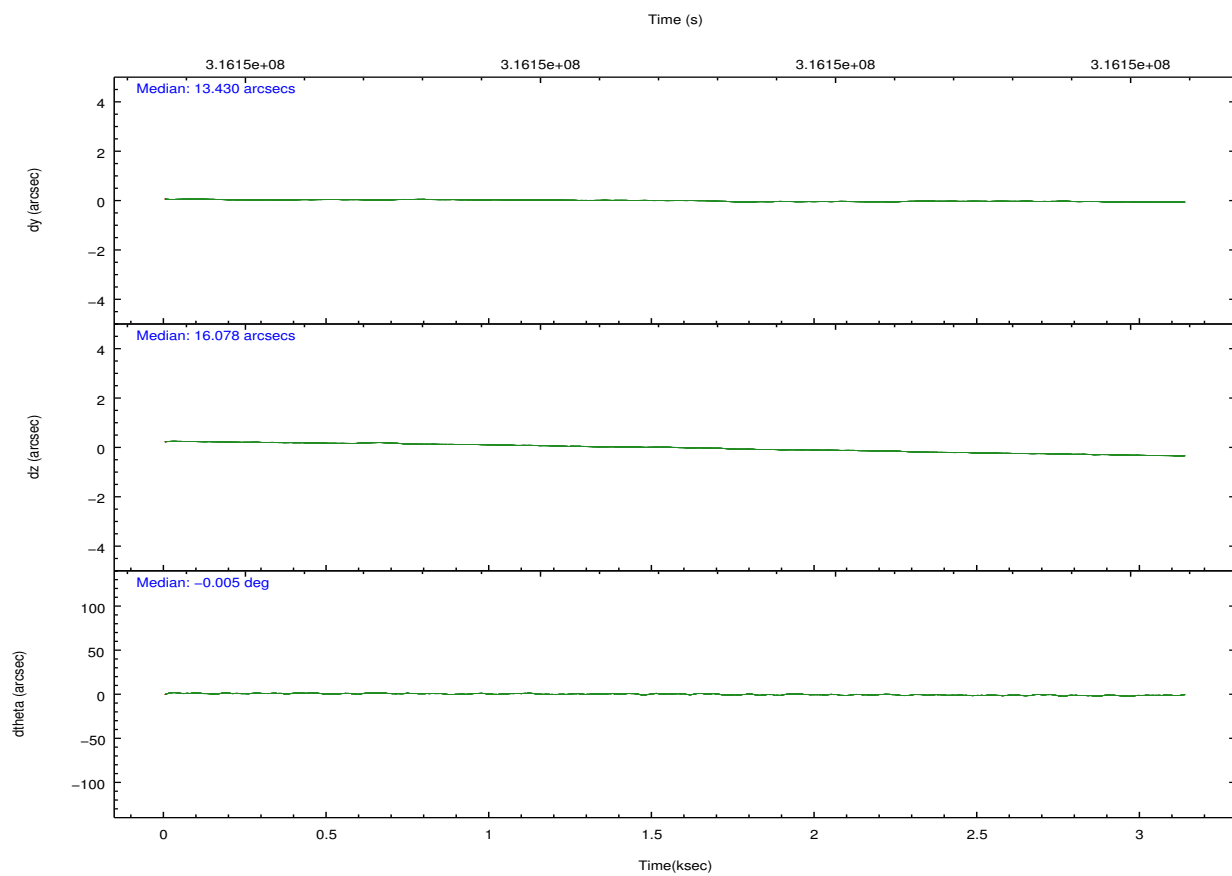
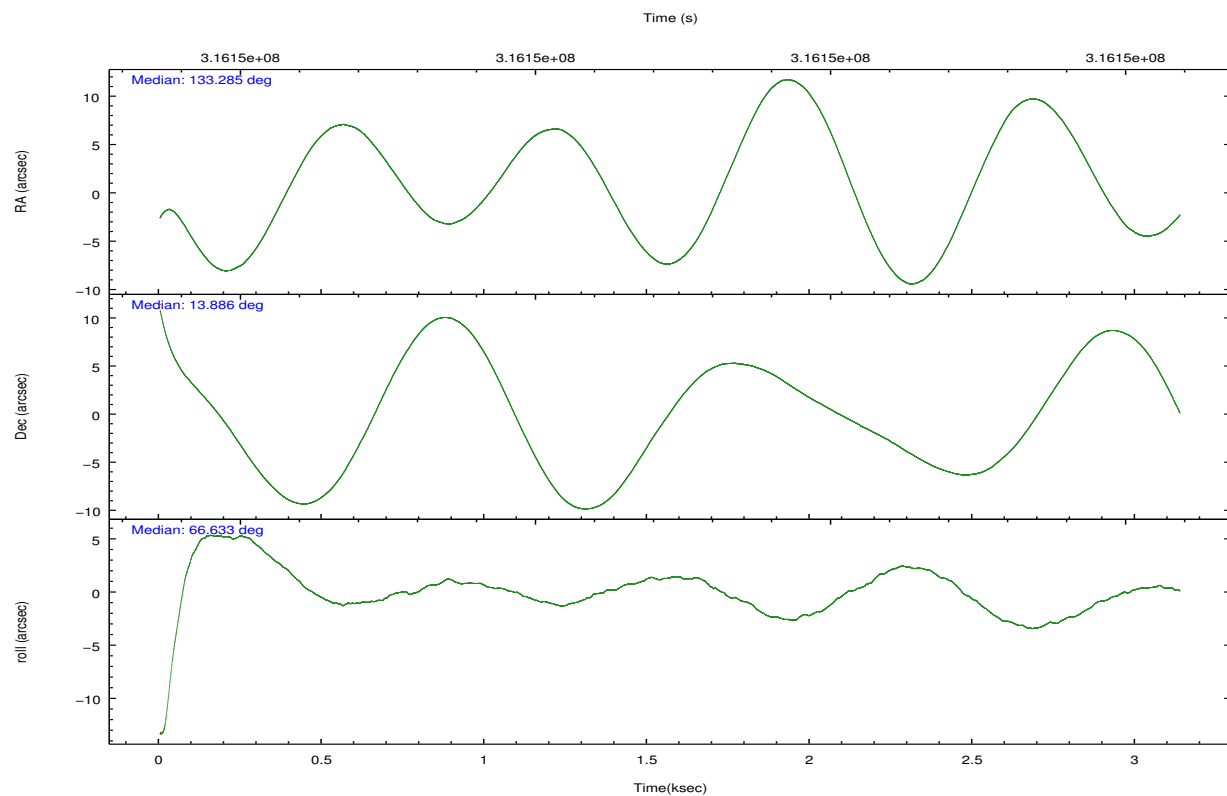
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	526	532	673	922
	4%	4%	4%	5%
grade 1 events	5	3	16	6
	0%	0%	0%	0%
grade 2 events	237	265	1408	828
	2%	2%	9%	5%
grade 3 events	184	155	697	393
	1%	1%	4%	2%
grade 4 events	182	208	723	369
	1%	1%	4%	2%
grade 5 events	462	520	1361	649
	4%	4%	9%	4%
grade 6 events	233	271	3310	1120
	2%	2%	21%	6%
grade 7 events	9117	10465	6913	11880
	83%	84%	45%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	133.288742	133.2849251209914	CCD I2 on	N	N
[deg] Pointing Dec	13.859157	13.88639530715301	CCD I3 on	O1	Y
[deg] Pointing Roll	66.477342	66.63482404175676	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	O3	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	O2	Y
[s] Observation start time (MET)	316146028.184000	316144750.25752	CCD S5 on	N	N
Observation start date	2008-01-08T02:19:23	2008-01-08T01:59:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	316149028.184000	316149734.83276	On-chip summing requested	N	N
Observation end date	2008-01-08T03:09:23	2008-01-08T03:22:14	Subarray requested	CUSTOM	1/4
Read mode	TIMED	TIMED	Subarray start row	385	385
			Subarray row count	256	256
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1

2.3 Aspect



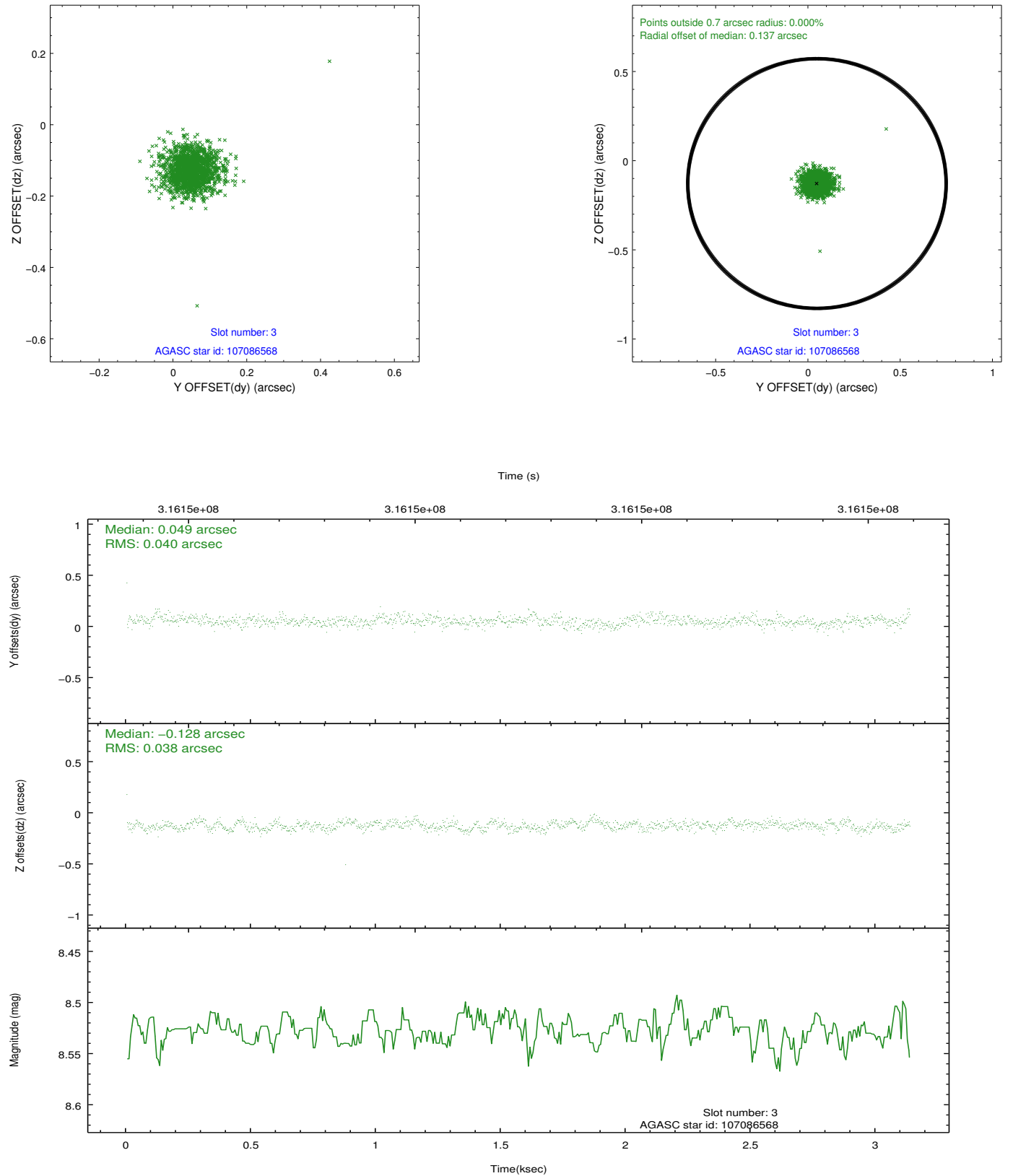


Slot Statistics

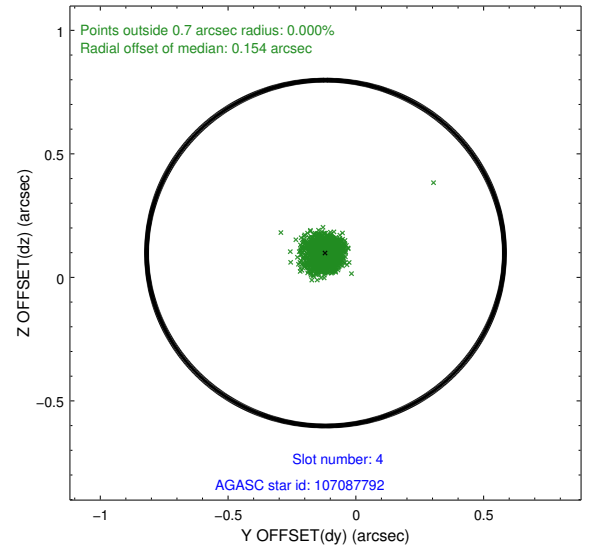
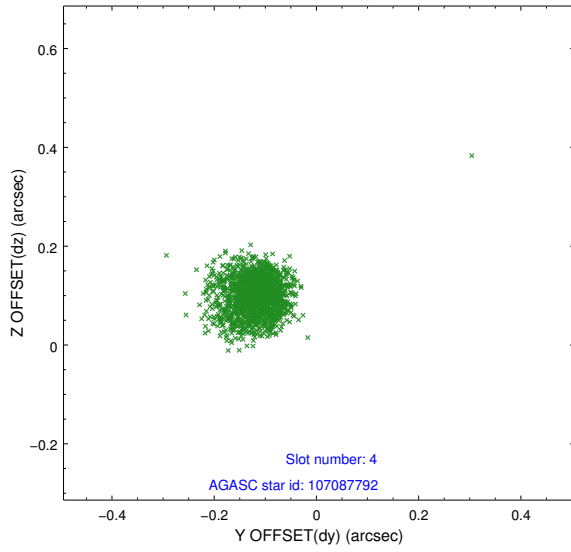
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	765	0.138	-0.084	0.008	0.015	0.000000	0.000000	929.82	-1733.12
1	FID	ACIS-S-2	7.09	765	-0.041	0.025	0.006	0.010	0.000000	0.000000	-765.14	-1739.67
2	FID	ACIS-S-5	7.22	765	-0.121	0.066	0.008	0.015	0.000000	0.000000	-1820.52	162.48
3	GUIDE	107086568	8.53	1528	0.049	-0.128	0.056	0.094	133.432373	14.409151	2015.59	330.45
4	GUIDE	107087792	7.51	1530	-0.119	0.098	0.056	0.088	133.614255	14.244973	1729.12	-486.90
5	GUIDE	107102208	7.76	1530	-0.076	0.103	0.069	0.114	133.913586	14.180966	1936.38	-1537.26
6	GUIDE	107098328	8.88	1529	0.084	-0.188	0.075	0.124	133.008045	13.390648	-1936.99	226.56
7	GUIDE	107099808	7.73	1529	0.068	0.116	0.082	0.124	133.099756	13.233438	-2331.58	-291.50

2.4 Star Slots

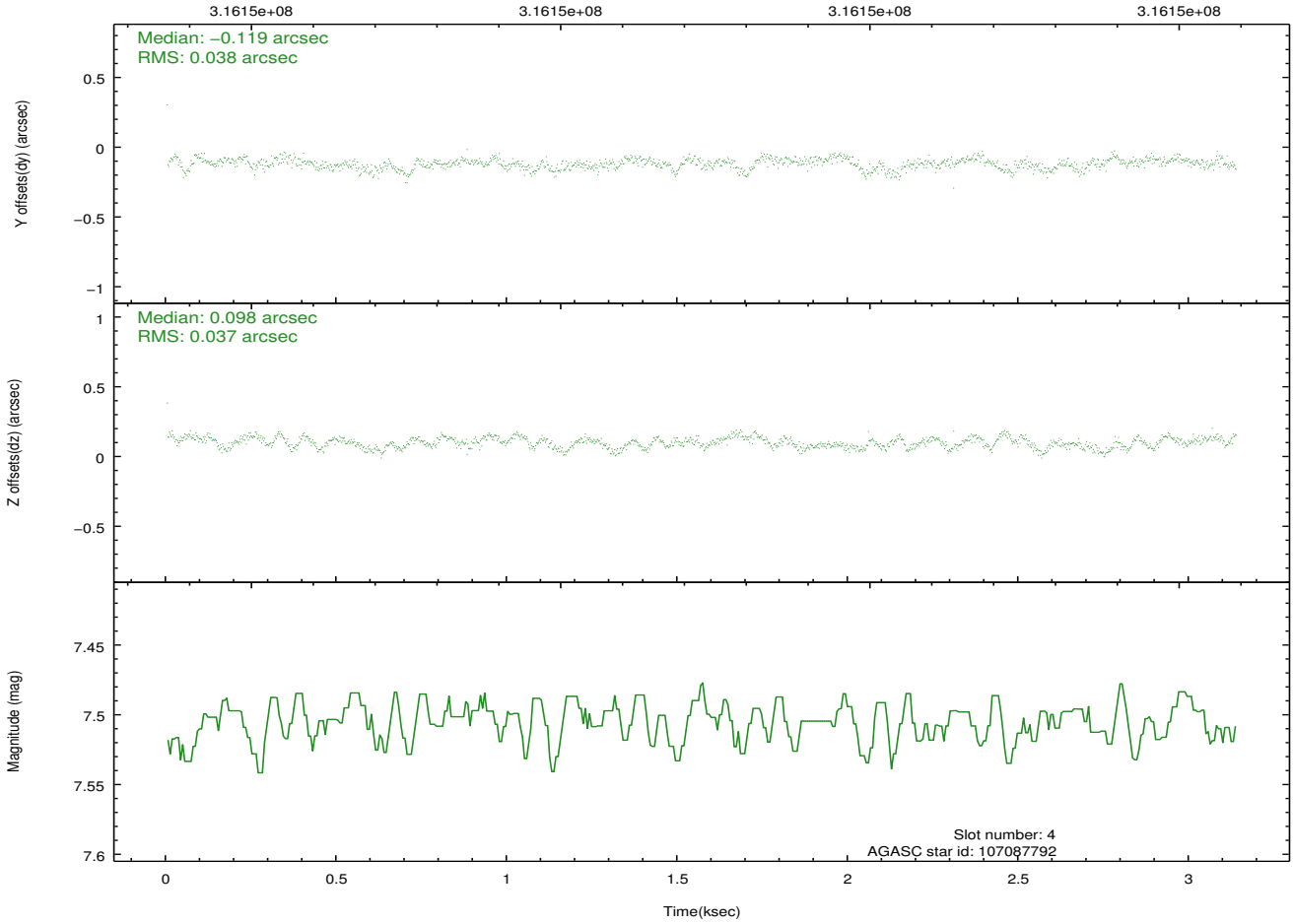
2.4.1 Slot 3



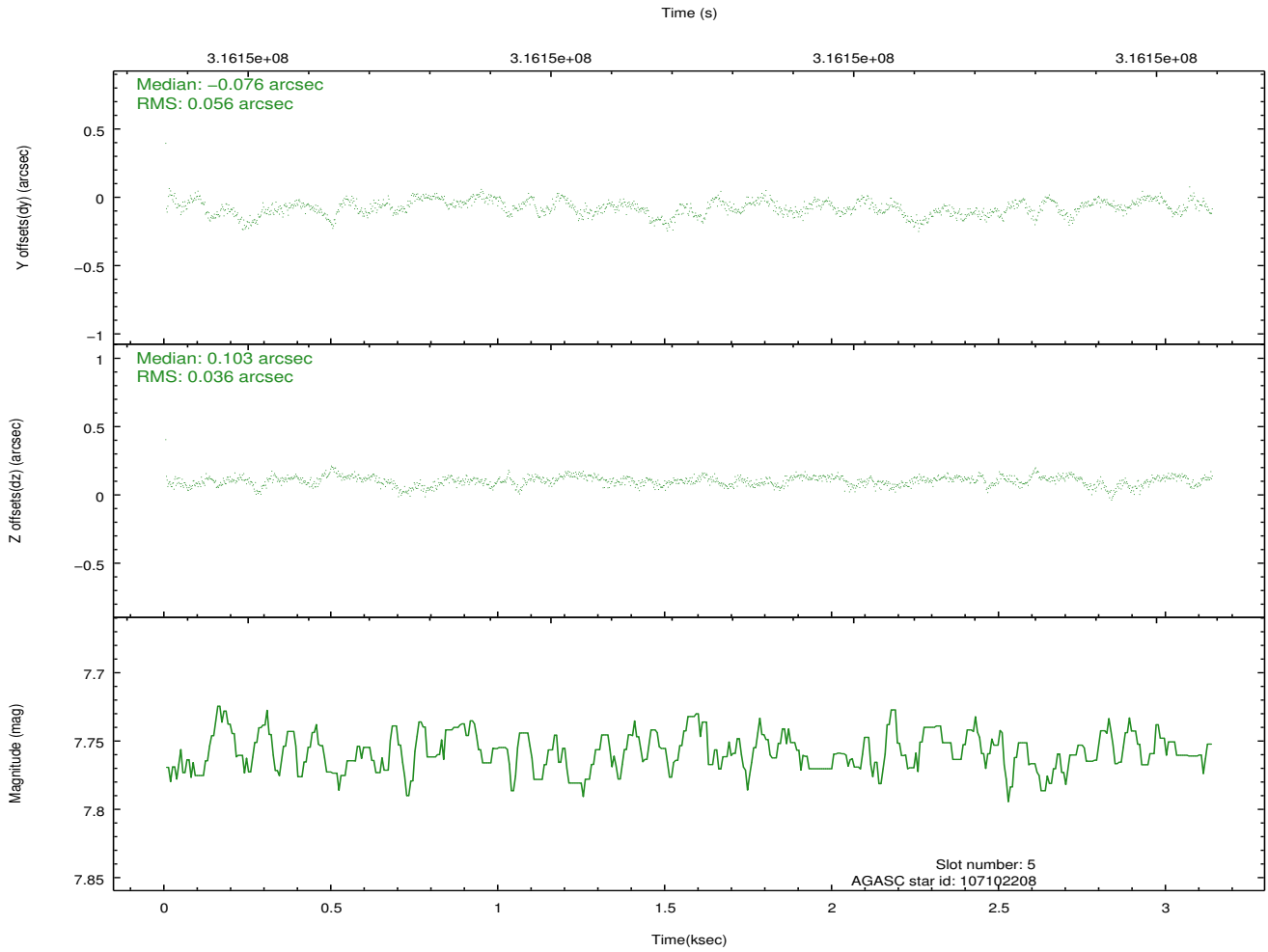
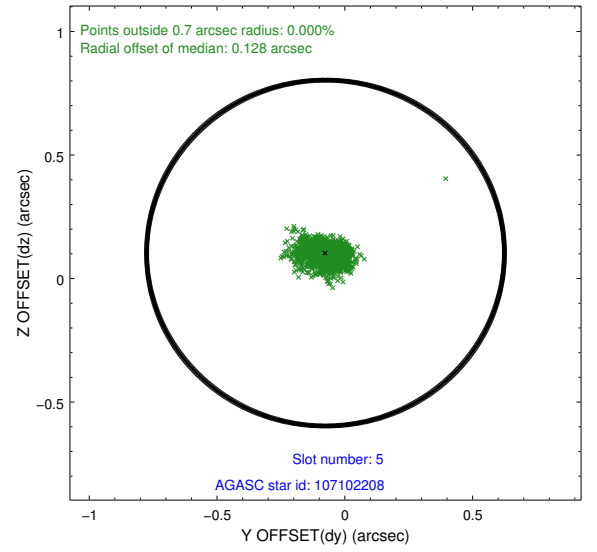
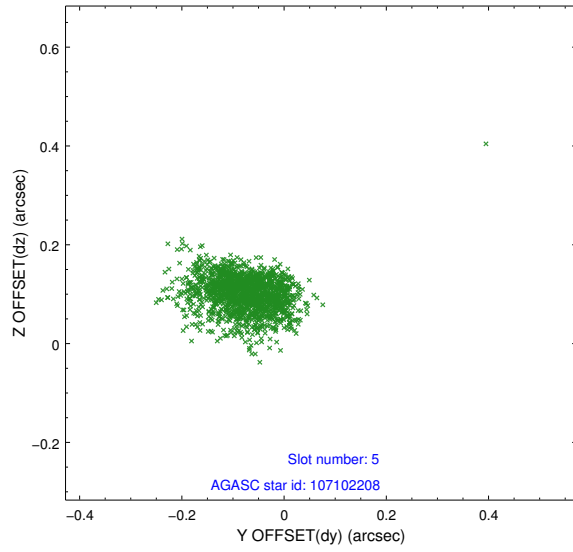
2.4.2 Slot 4



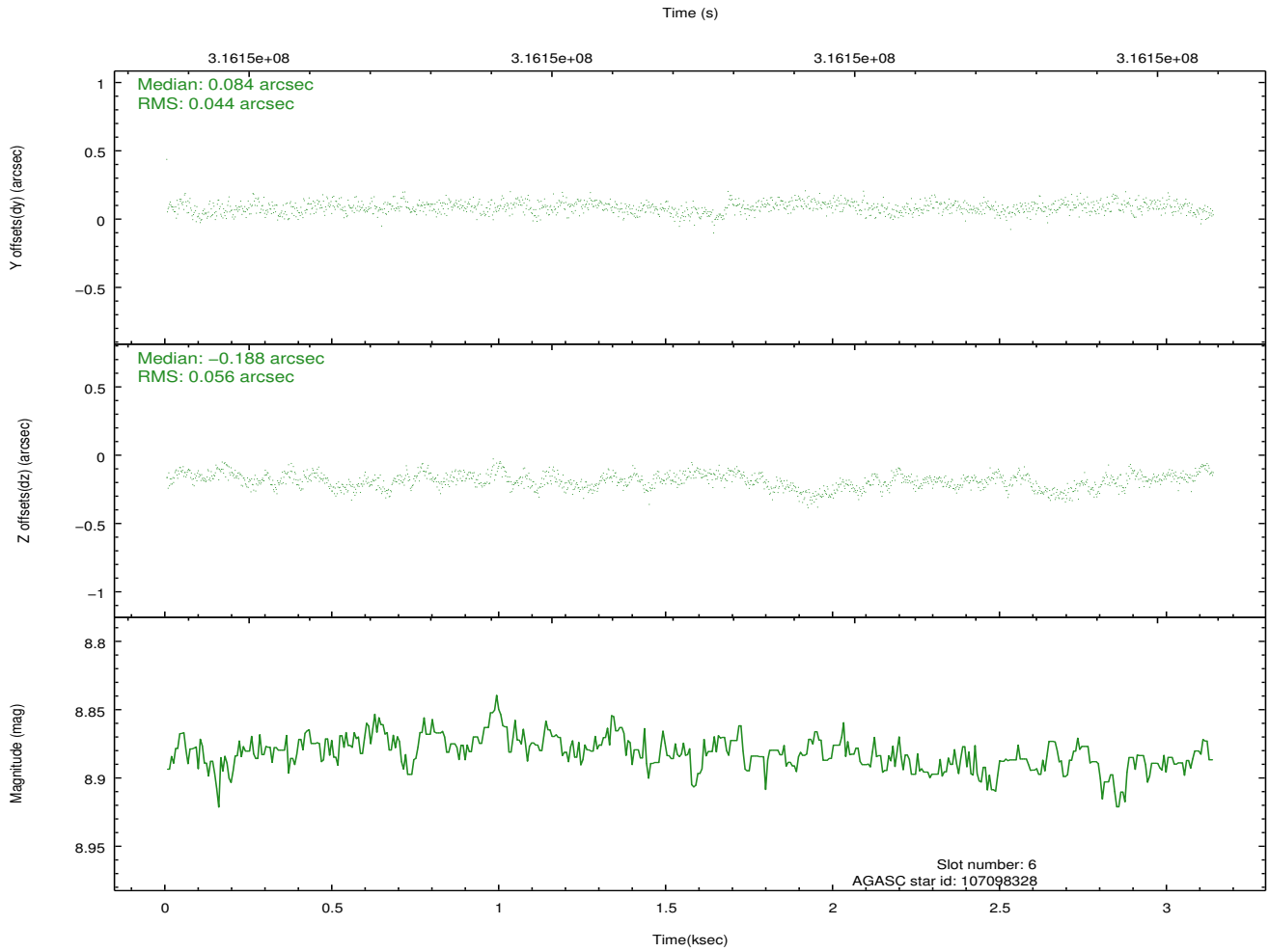
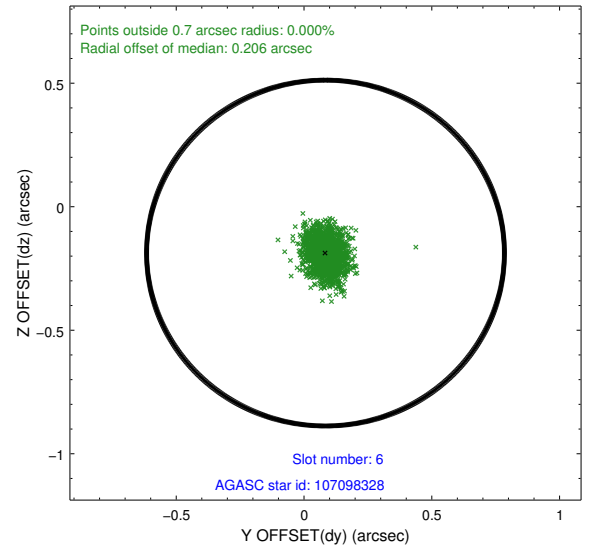
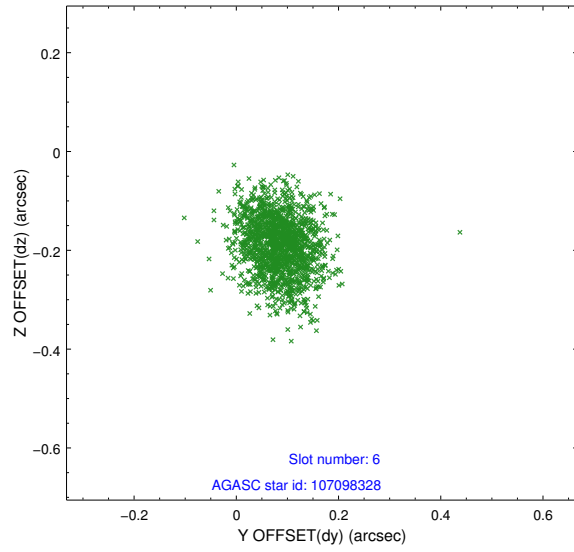
Time (s)



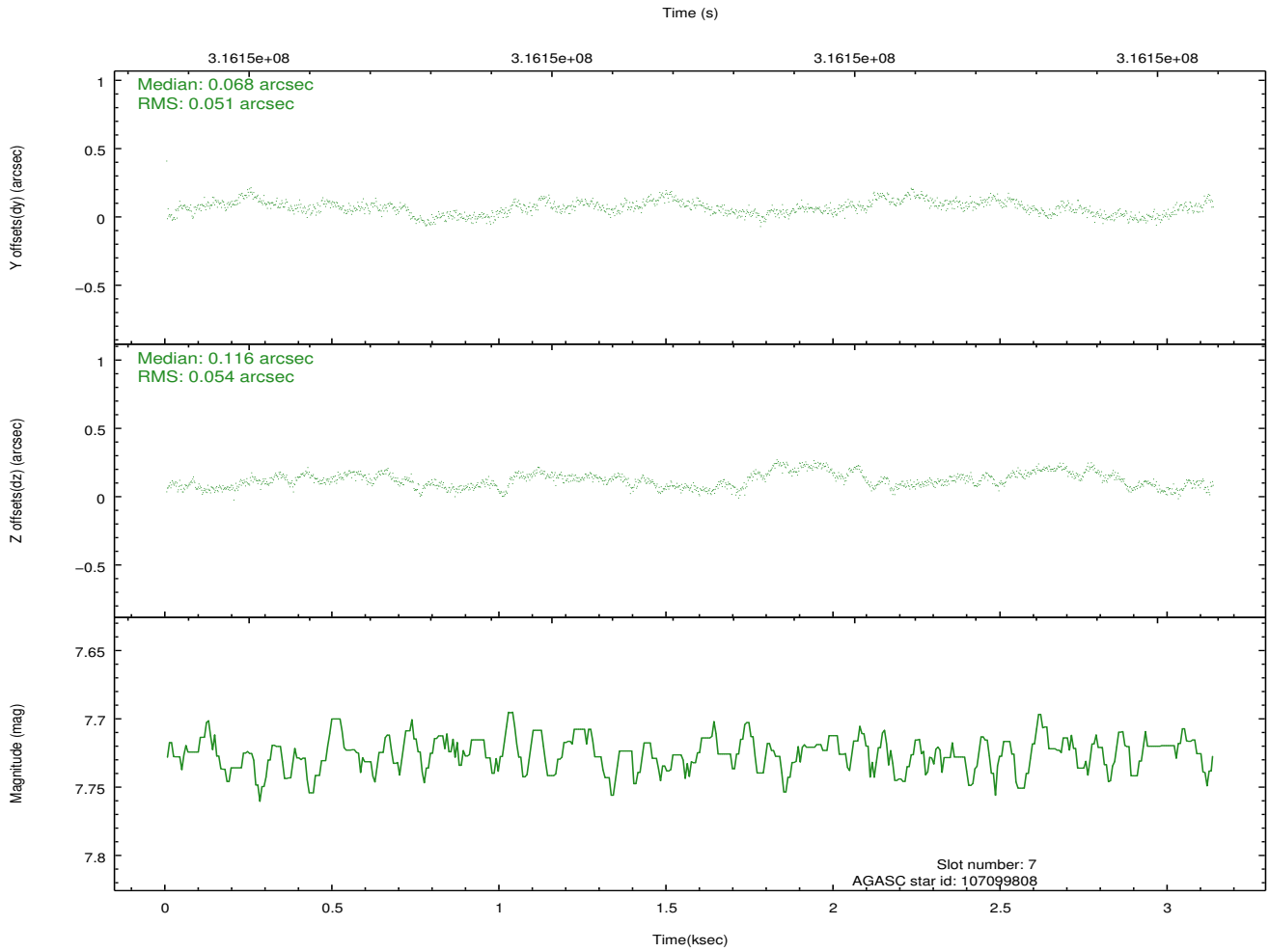
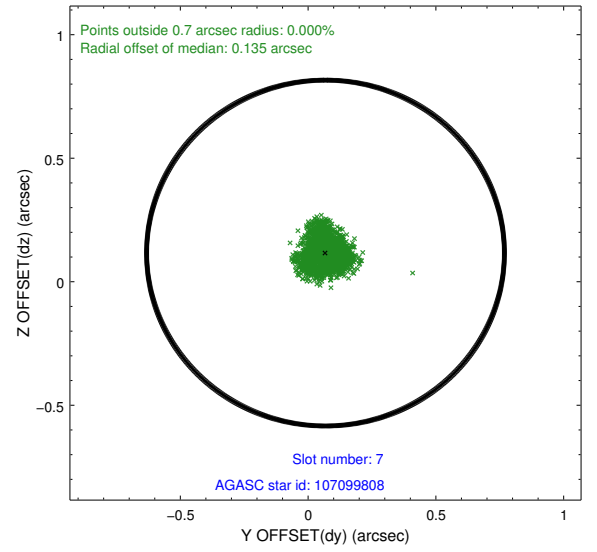
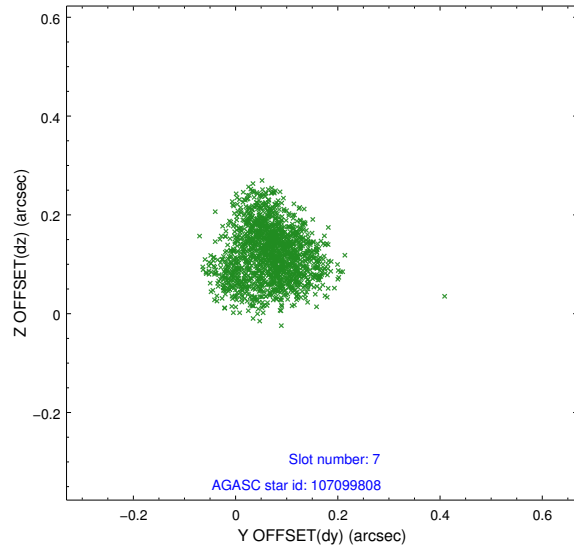
2.4.3 Slot 5



2.4.4 Slot 6

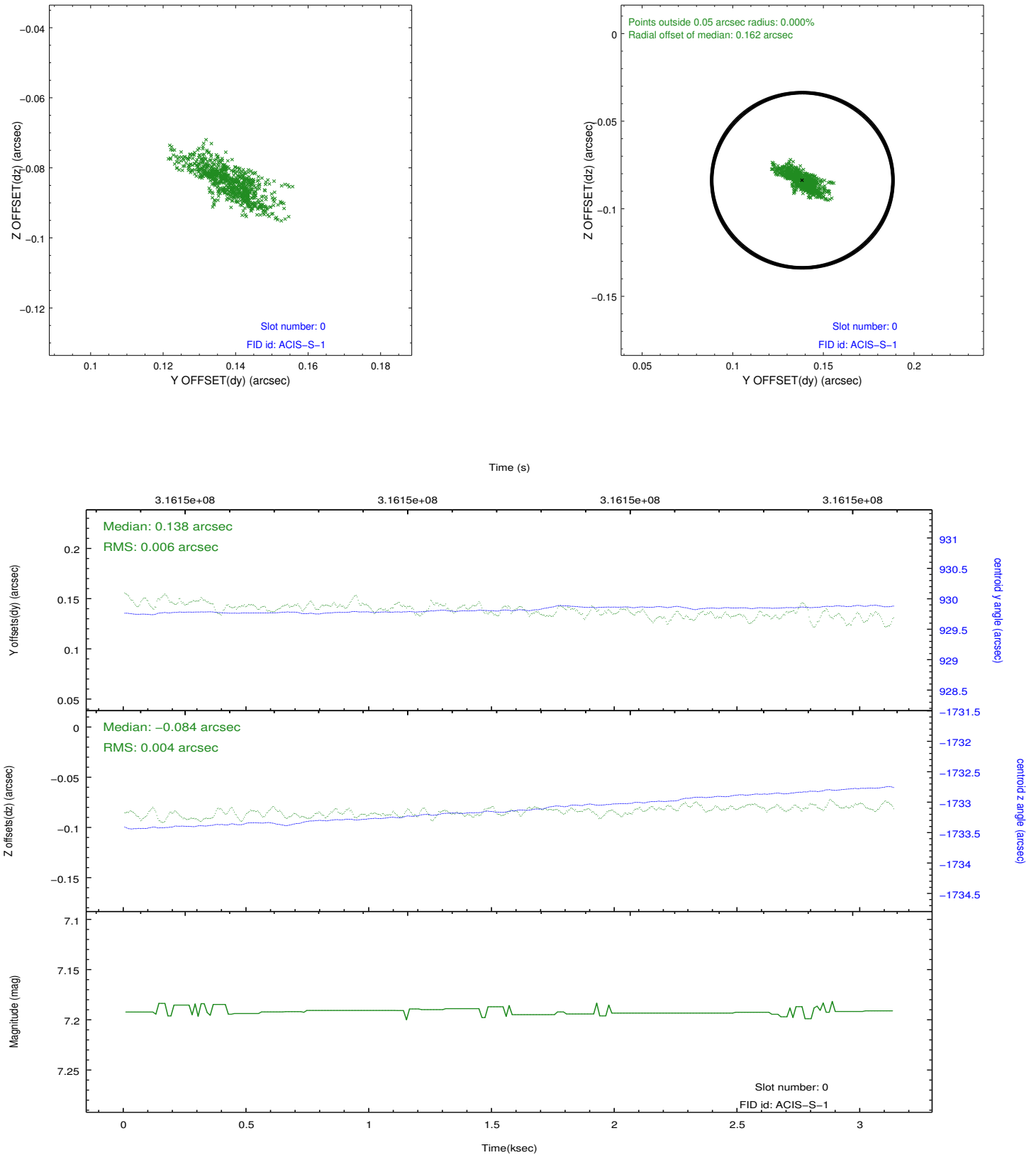


2.4.5 Slot 7

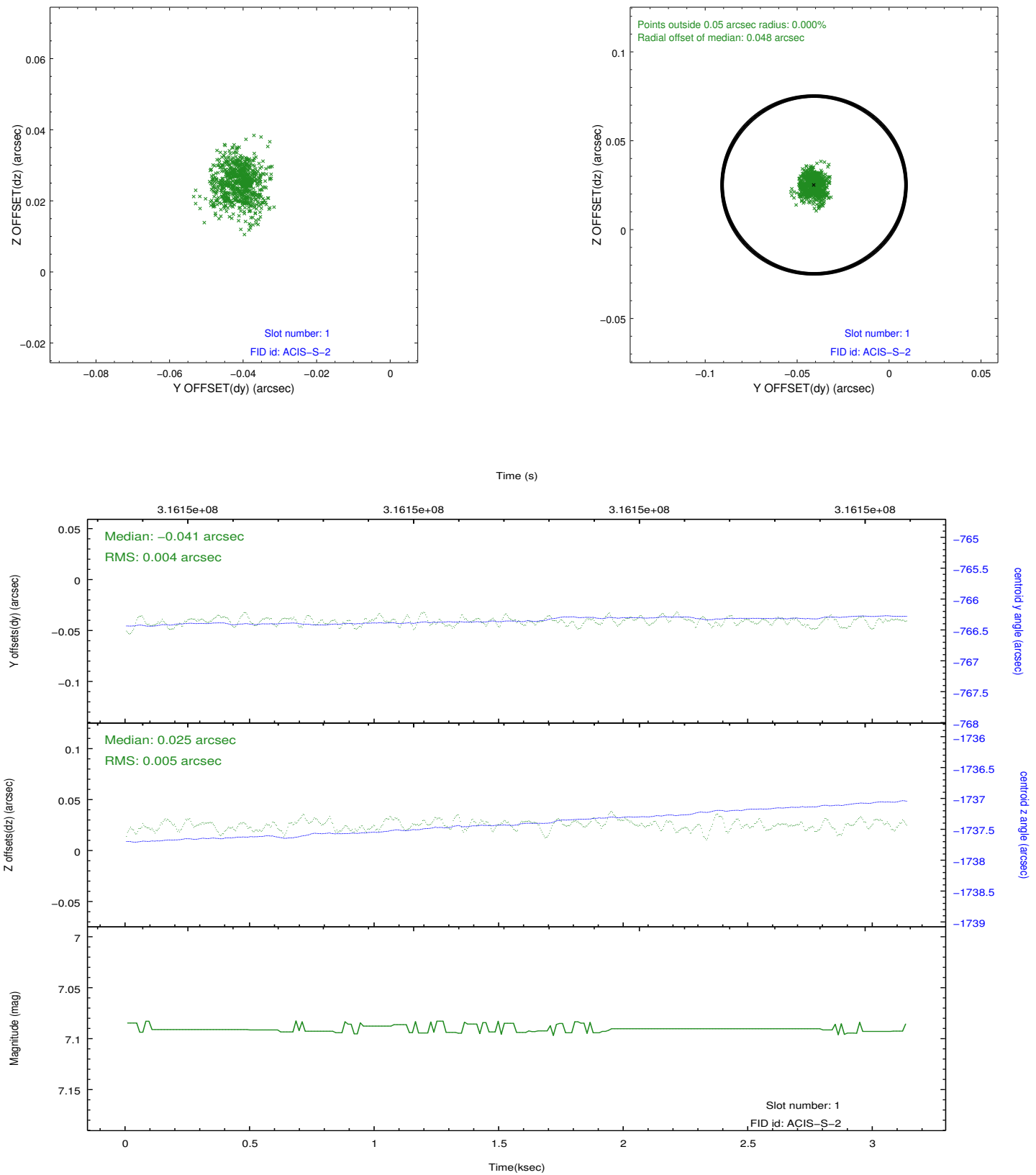


2.5 FID Slots

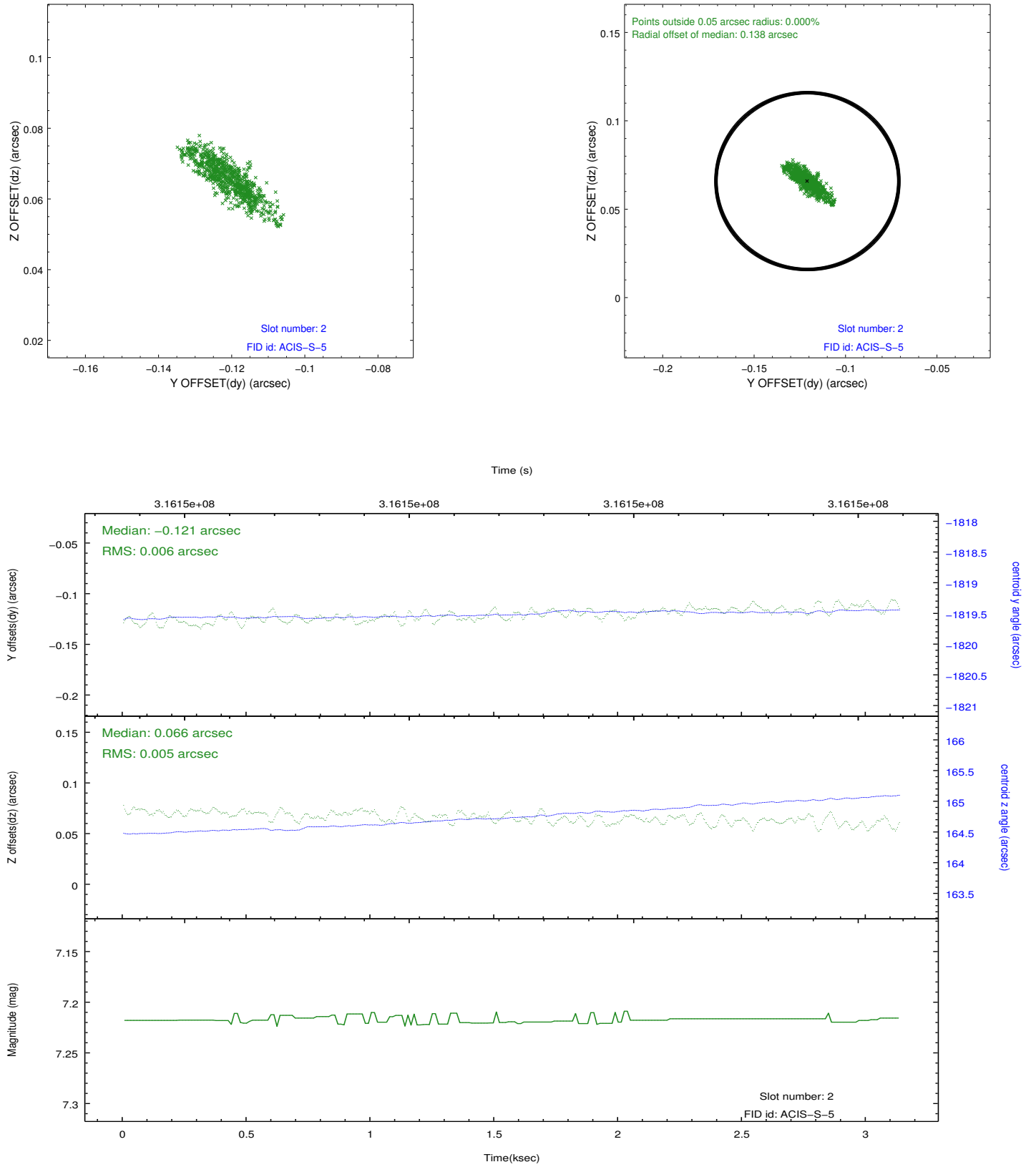
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.132

A.2 Comments

A spatial region of the original bias map for CCD = 3 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~ 20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 3 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords:
(133.46289,13.71702),(133.46920,13.71435),(133.48340,13.74625),(133.47710,13.74892)