

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14999 - L2 Version 2
Chandra X-Ray Center

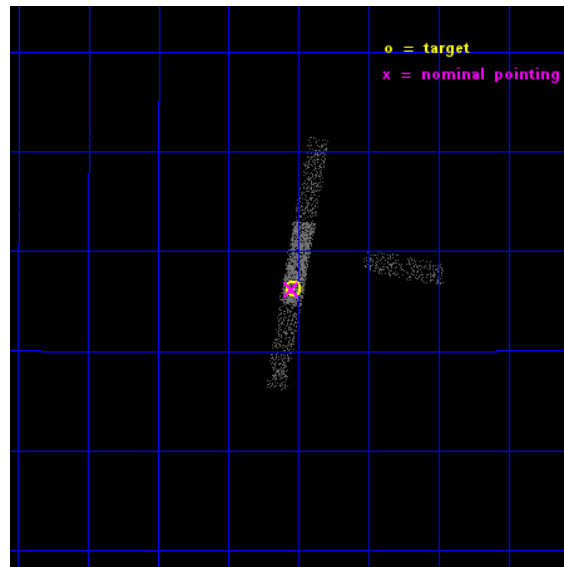
L2 Processing Date : Dec 1 2014

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1 Front

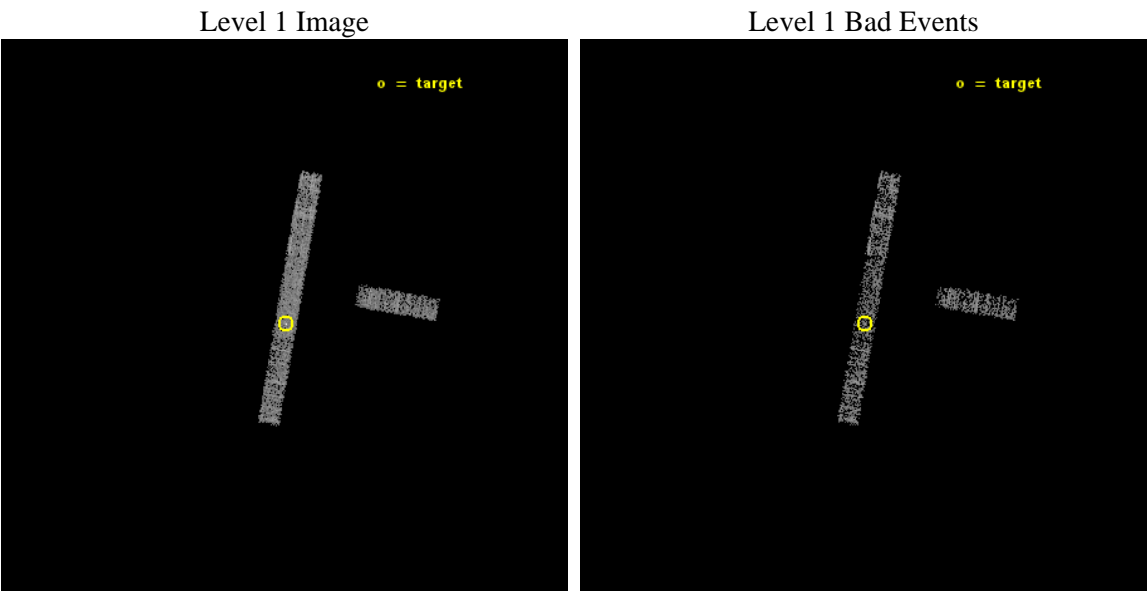
seq_num	702807	Sequence number
obs_id	14999	Observation id
title	The Herschel Legacy of powerful 3C radio galaxies and quasars II: observing Proposal.	Proposal title
observer	Dr Joanna Kuraszkiewicz	Principal investigator
object	3C175	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	108.260042	Observer's specified target RA [deg]
dec_targ	11.771036	Observer's specified target Dec [deg]
ra_nom	108.26291502074	Nominal RA [deg]
dec_nom	11.769726201963	Nominal Dec [deg]
roll_nom	280.15605976307	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2084.0	Sum of GTIs [s]
livetime	2001.8443095366	Livetime [s]
ontime3	2084.0	Sum of GTIs [s]
ontime6	2084.0	Sum of GTIs [s]
ontime7	2084.0	Sum of GTIs [s]
ontime8	2084.0	Sum of GTIs [s]
l2events	3319	Number of level 2 events



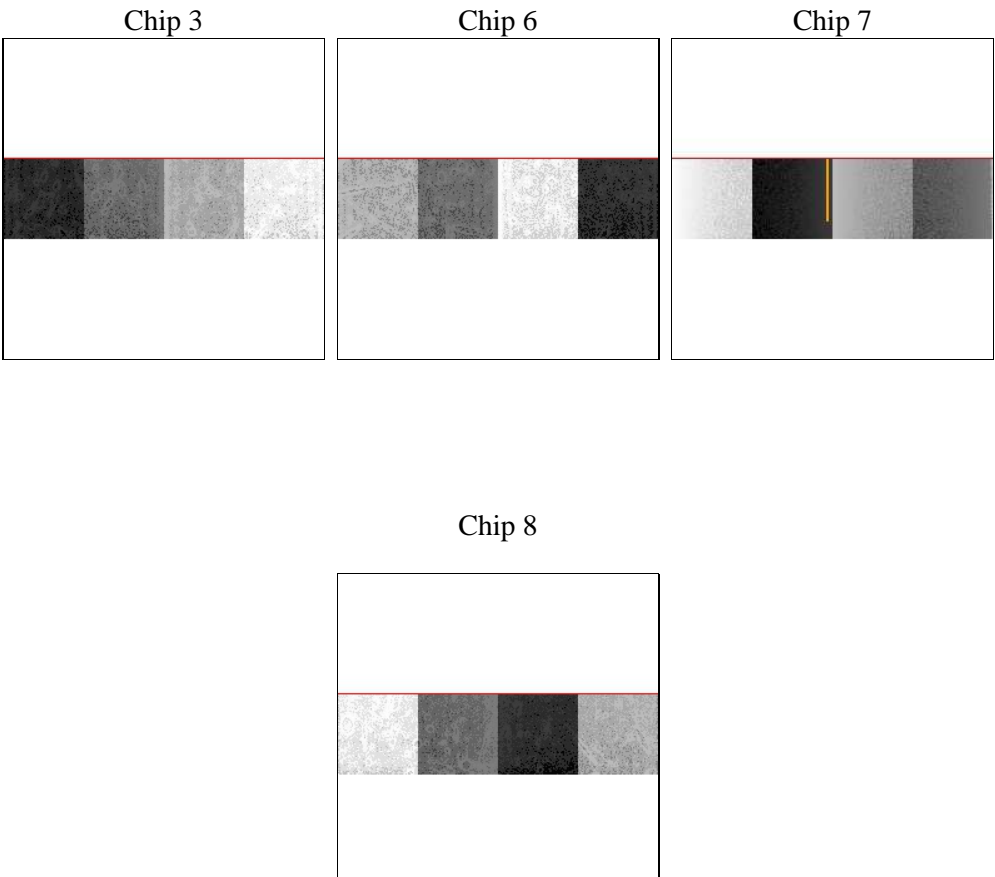
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	2084.0	Sum of GTIs [s]
caldsver	4.6.4	 	ontime3	2084.0	Sum of GTIs [s]
date	2014-12-01T13:32:54	Date and time of file creation	ontime6	2084.0	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	2084.0	Sum of GTIs [s]
			ontime8	2084.0	Sum of GTIs [s]
			l1events	16509	Number of level 1 events

2.1.4 Events

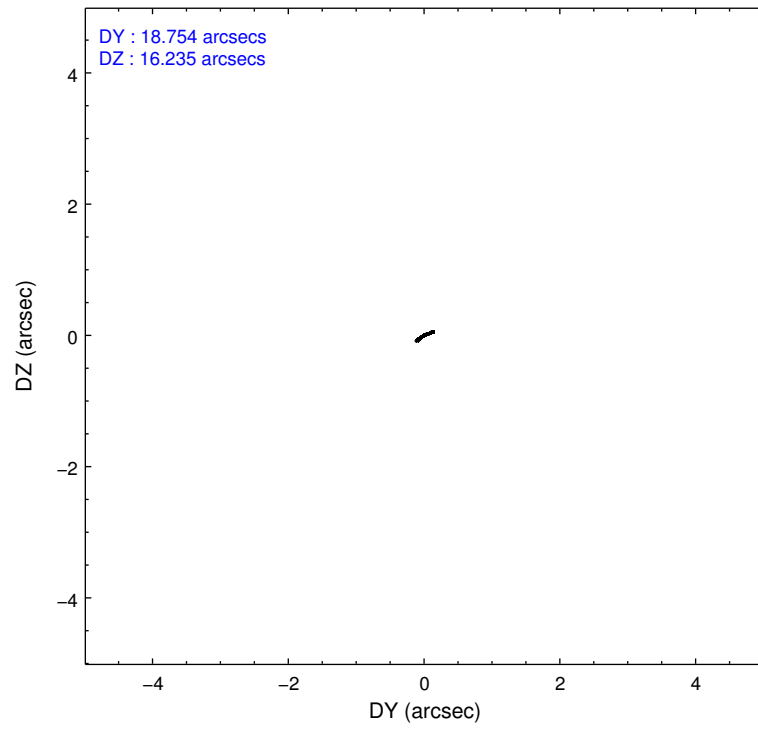
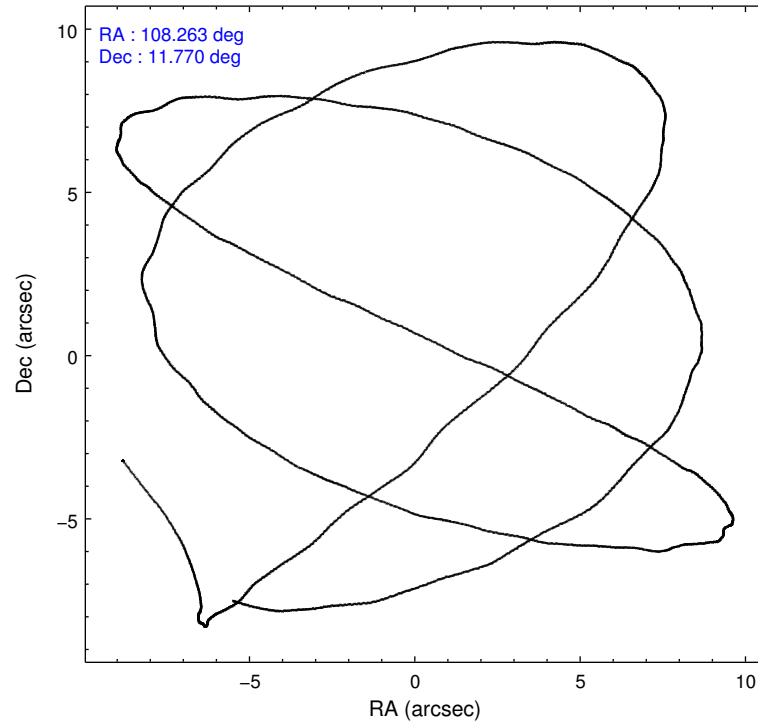
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	3222	3641	4654	4992
rejected events	2897	3181	2306	3788
rejected %	89%	87%	49%	75%

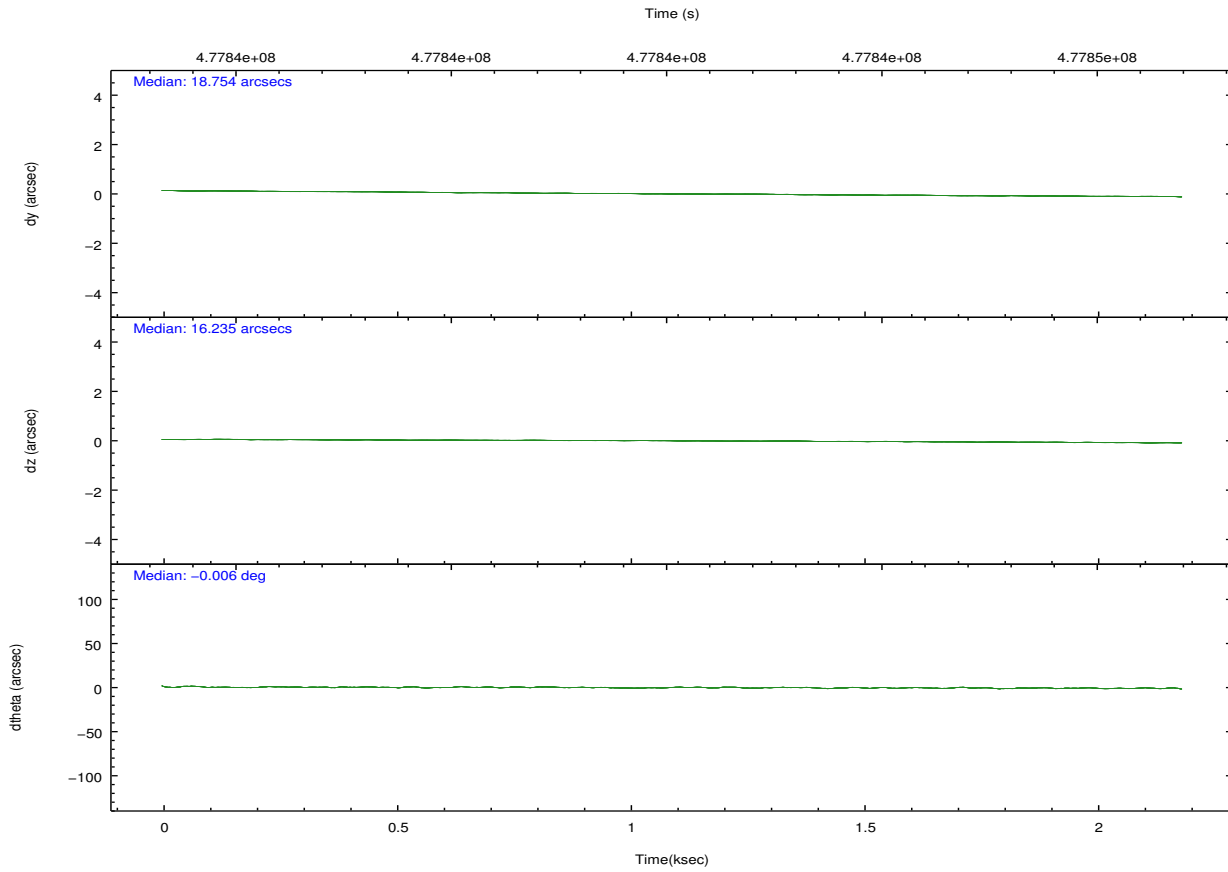
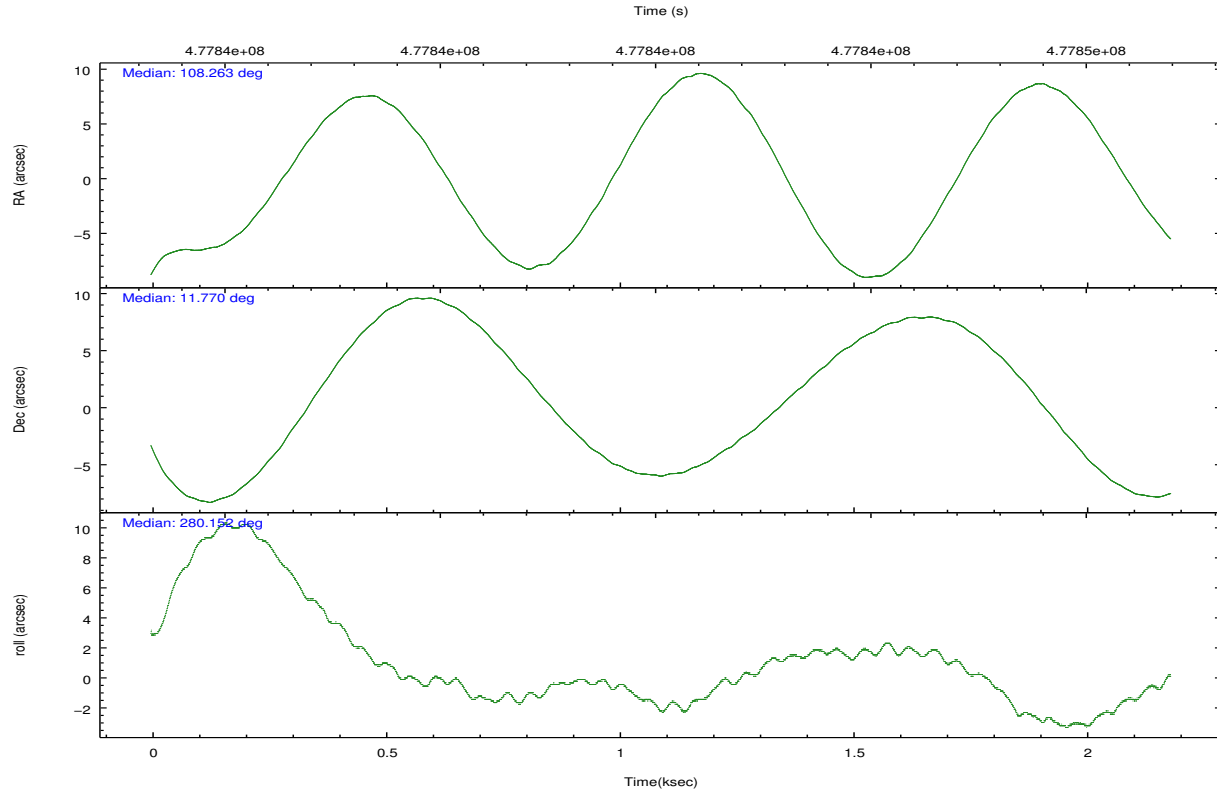
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	109	146	293	316
	3%	4%	6%	6%
grade 1 events	0	3	4	1
	0%	0%	0%	0%
grade 2 events	47	84	506	291
	1%	2%	10%	5%
grade 3 events	51	52	258	96
	1%	1%	5%	1%
grade 4 events	50	77	248	102
	1%	2%	5%	2%
grade 5 events	140	155	440	225
	4%	4%	9%	4%
grade 6 events	68	101	1048	399
	2%	2%	22%	7%
grade 7 events	2757	3023	1857	3562
	85%	83%	39%	71%

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	108.244594	108.2629150207369	CCD I2 on	N	N
[deg] Pointing Dec	11.790541	11.76972620196345	CCD I3 on	O1	Y
[deg] Pointing Roll	280.003157	280.1560597630669	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)	477843601.184000	477842368.89427	CCD S5 on	N	N
Observation start date	2013-02-21T14:18:54	2013-02-21T13:59:28	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	477845601.184000	477846484.26949	On-chip summing requested	N	N
Observation end date	2013-02-21T14:52:14	2013-02-21T15:08:04	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



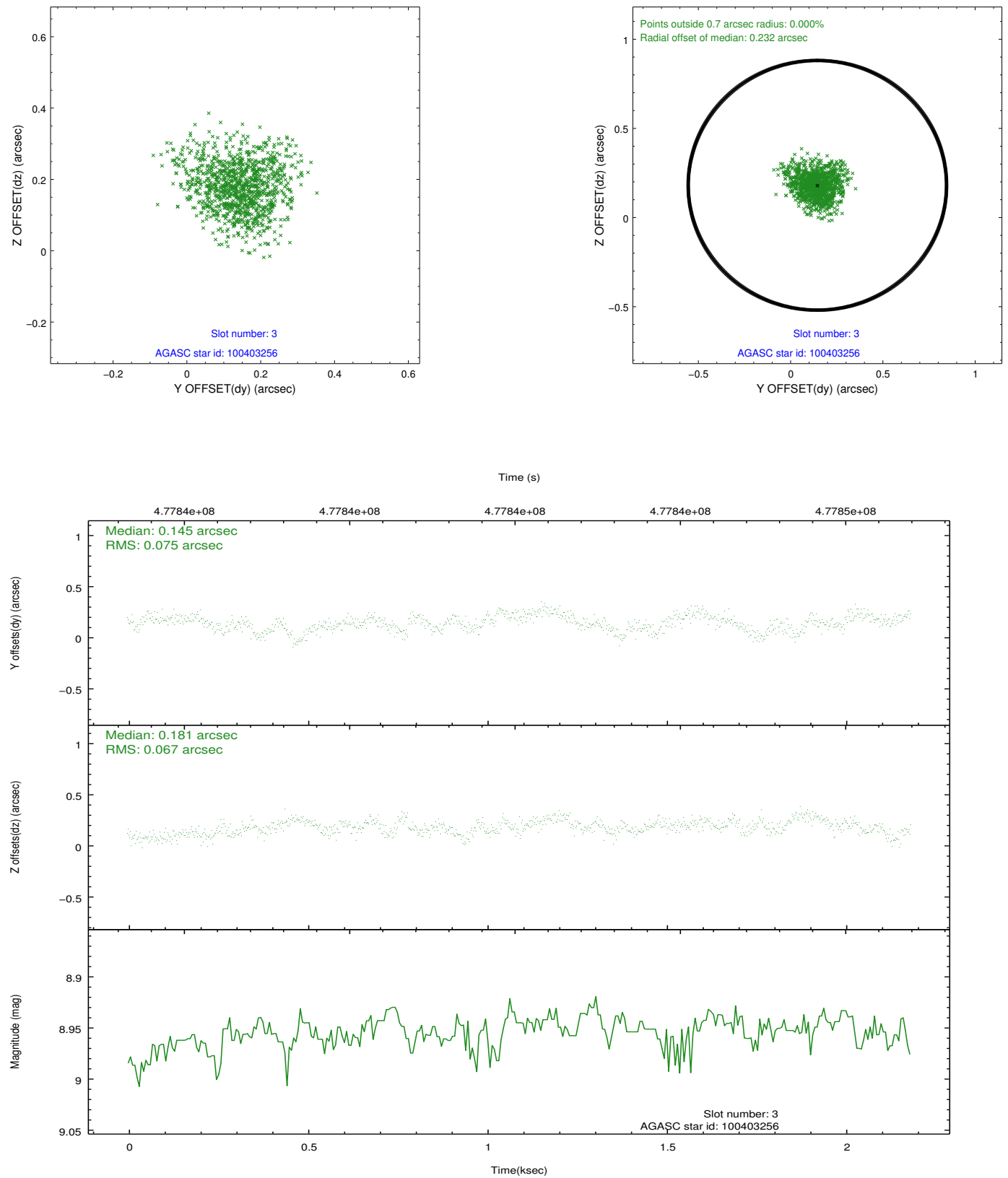


Slot Statistics

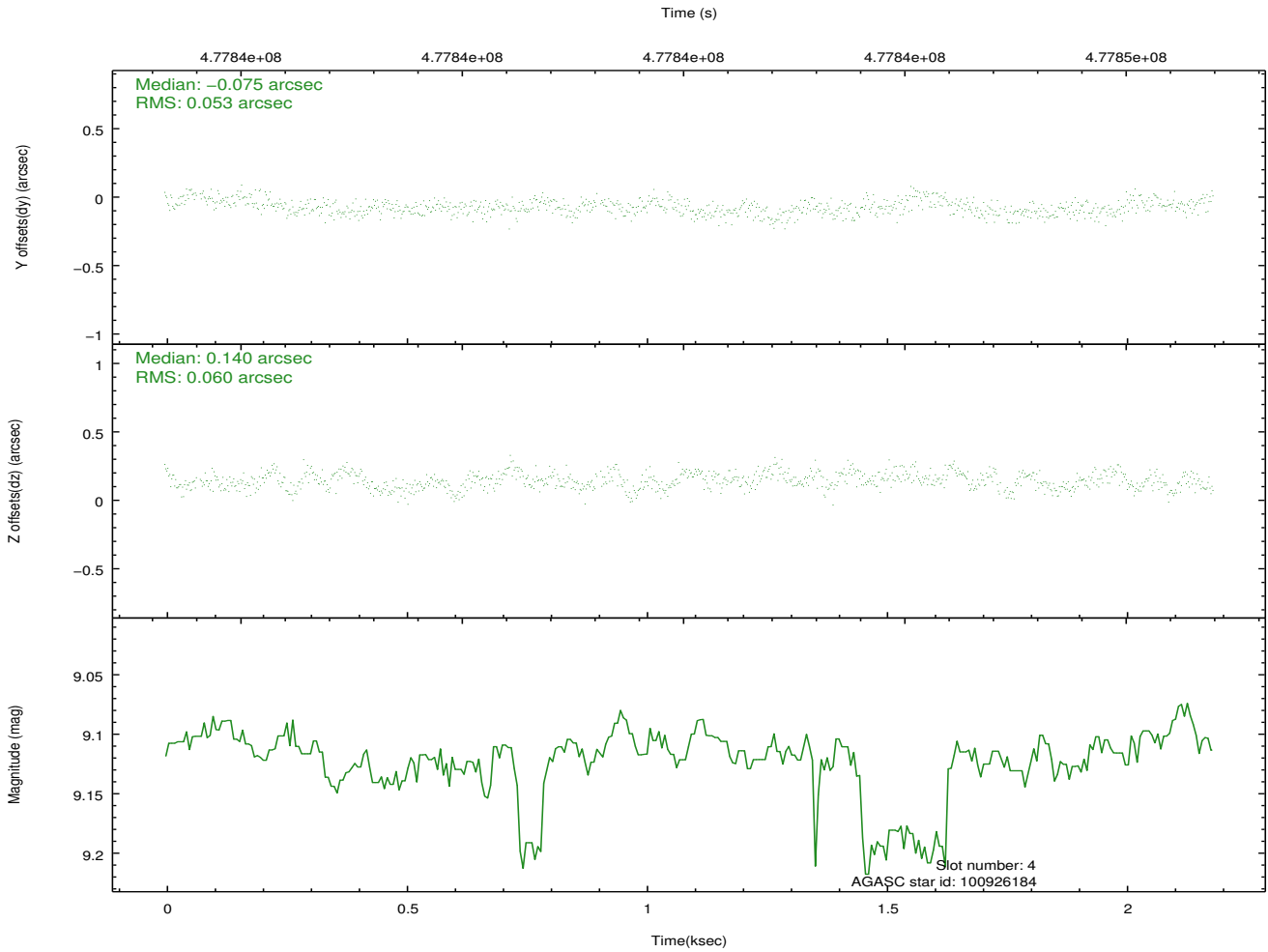
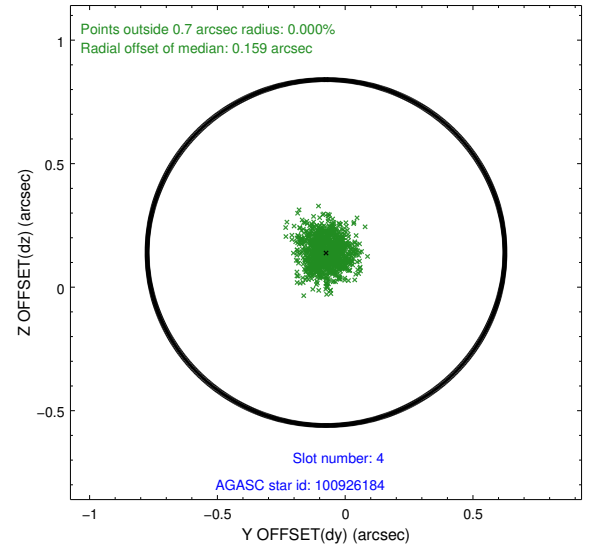
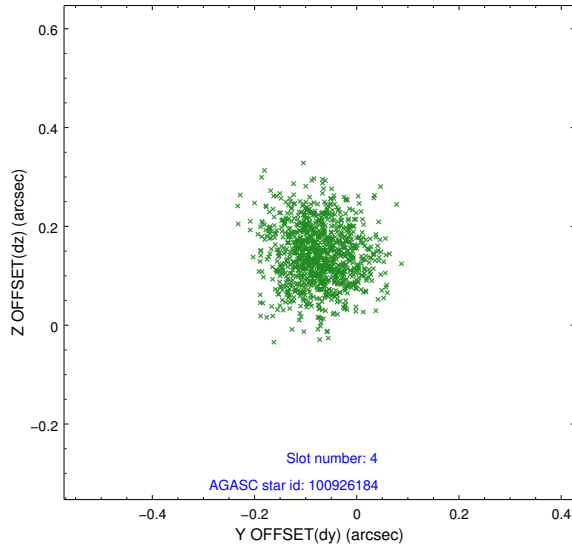
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.09	533	0.098	-0.105	0.007	0.013	0.000000	0.000000	924.34	-1733.30
1	FID		ACIS-S-5	7.13	533	-0.206	0.041	0.006	0.011	0.000000	0.000000	-1823.35	161.26
2	FID		ACIS-S-6	7.23	533	0.086	0.076	0.007	0.012	0.000000	0.000000	386.58	808.67
3	GUIDE	used	100403256	8.95	1065	0.145	0.181	0.109	0.177	107.809702	11.222587	1745.86	-1866.82
4	GUIDE	used	100926184	9.12	1057	-0.075	0.140	0.087	0.138	107.881841	12.226567	-1766.80	-985.63
5	GUIDE	used	100939176	8.27	1062	-0.202	-0.173	0.164	0.257	108.368506	11.492664	1129.93	243.47
6	GUIDE	used	100940312	8.71	1066	0.116	-0.023	0.097	0.159	107.865620	11.658839	235.12	-1397.58
7	GUIDE	used	100941048	8.93	1061	0.023	-0.140	0.095	0.156	108.450625	11.266061	1985.80	387.28

2.4 Star Slots

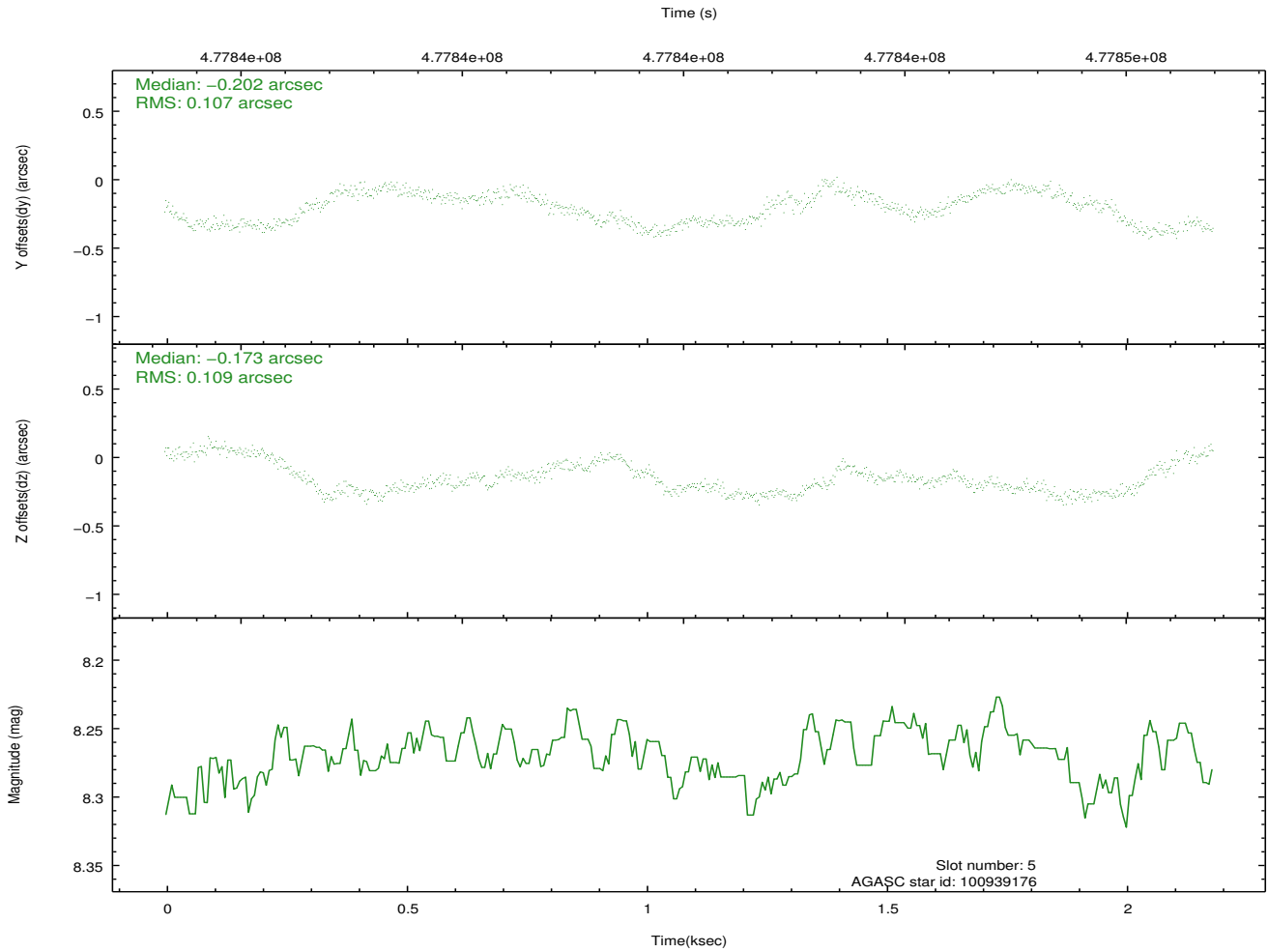
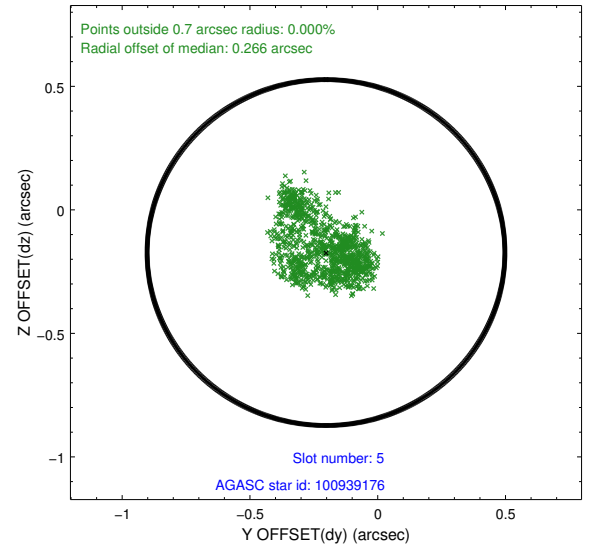
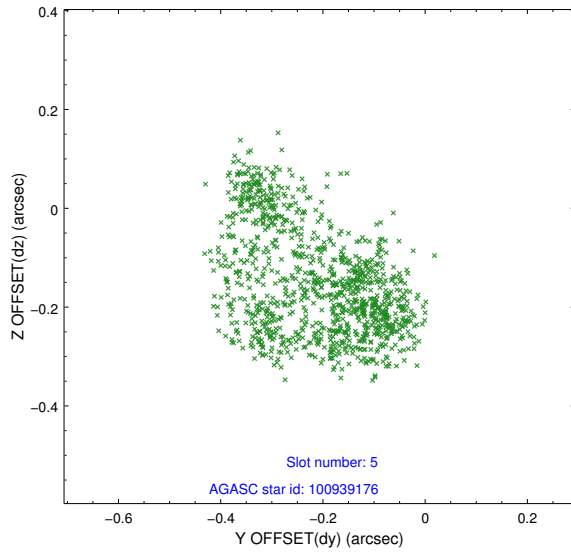
2.4.1 Slot 3



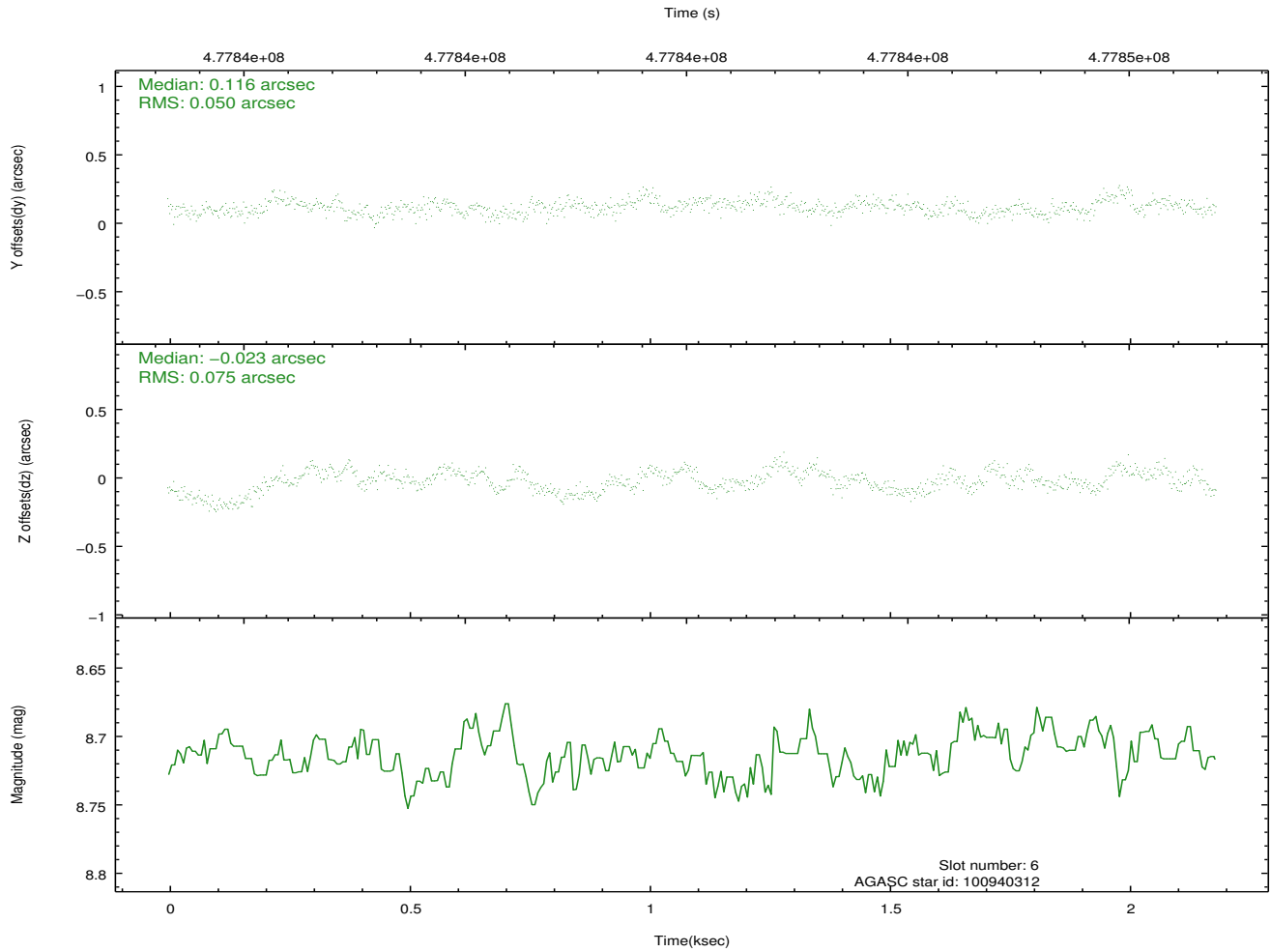
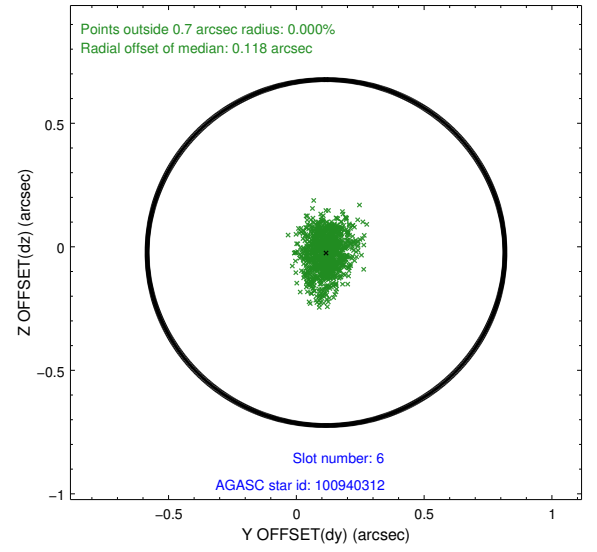
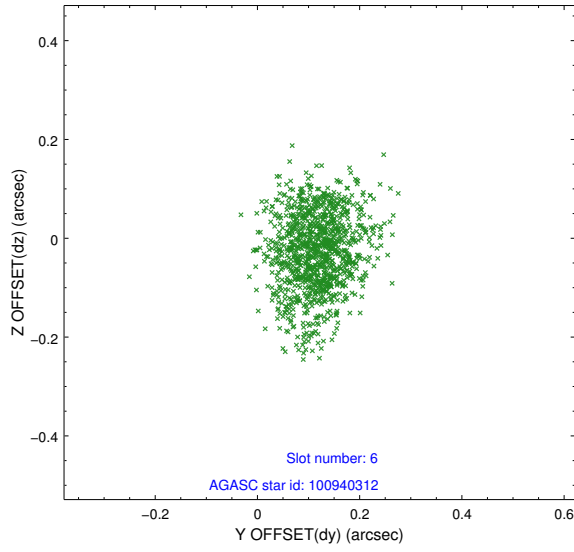
2.4.2 Slot 4



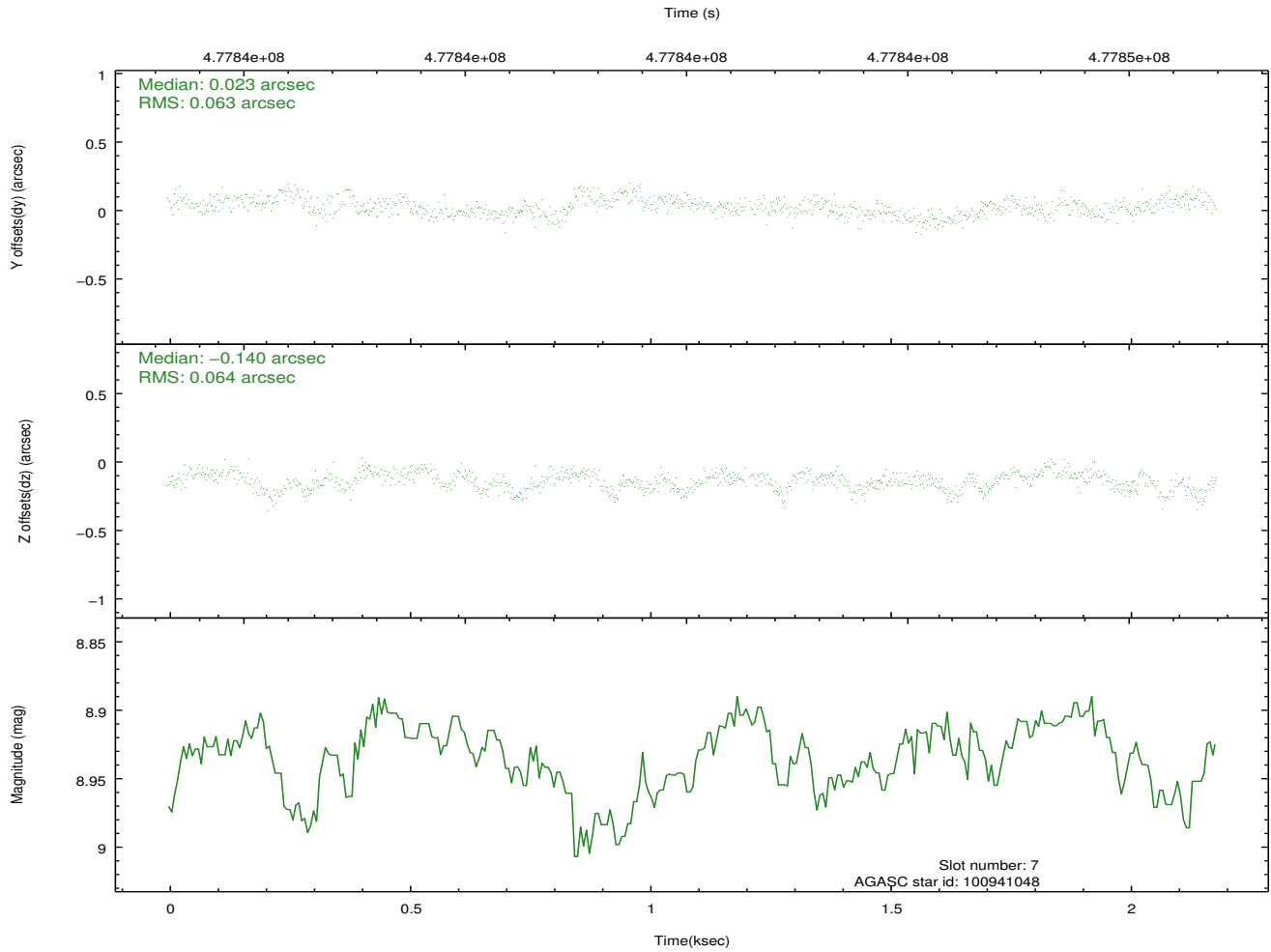
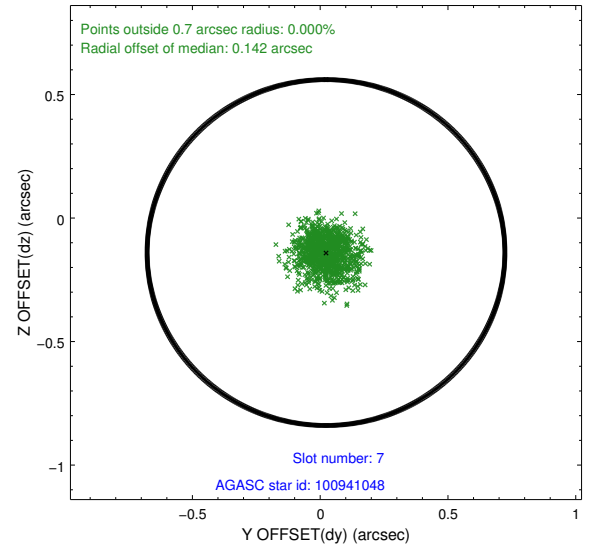
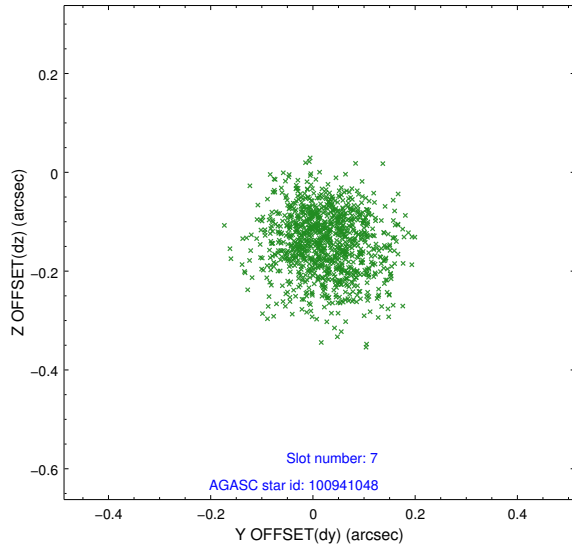
2.4.3 Slot 5



2.4.4 Slot 6

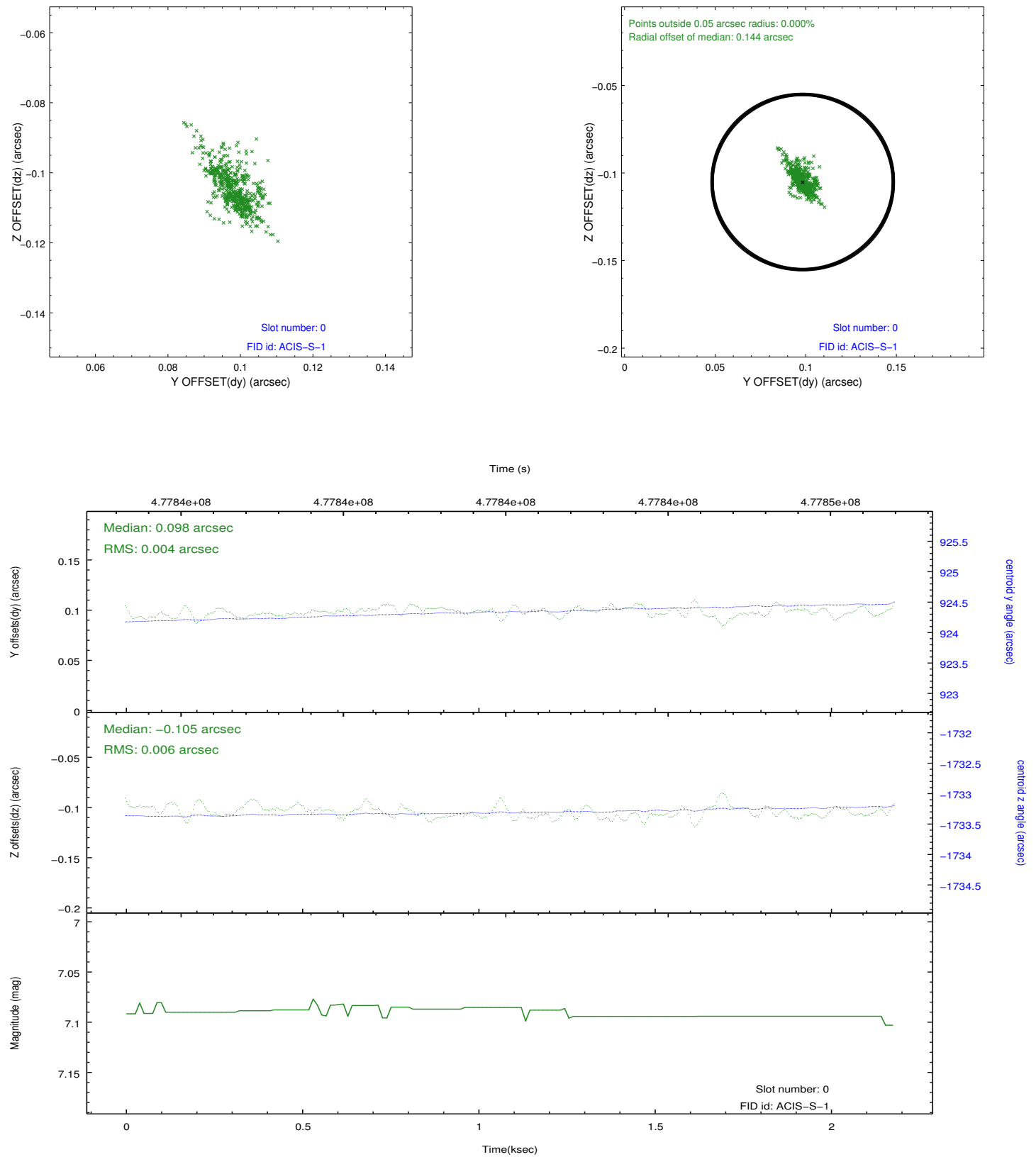


2.4.5 Slot 7

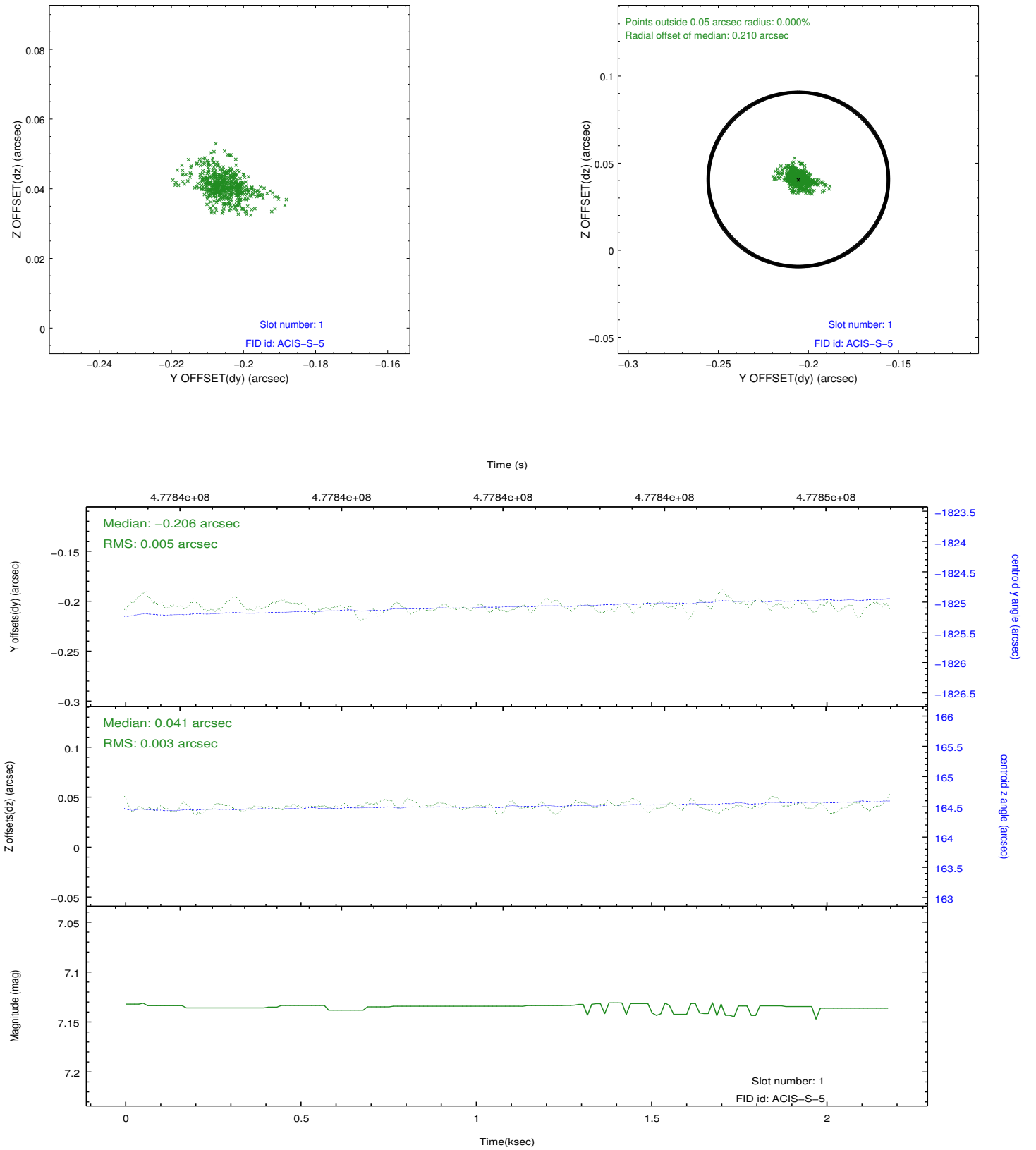


2.5 FID Slots

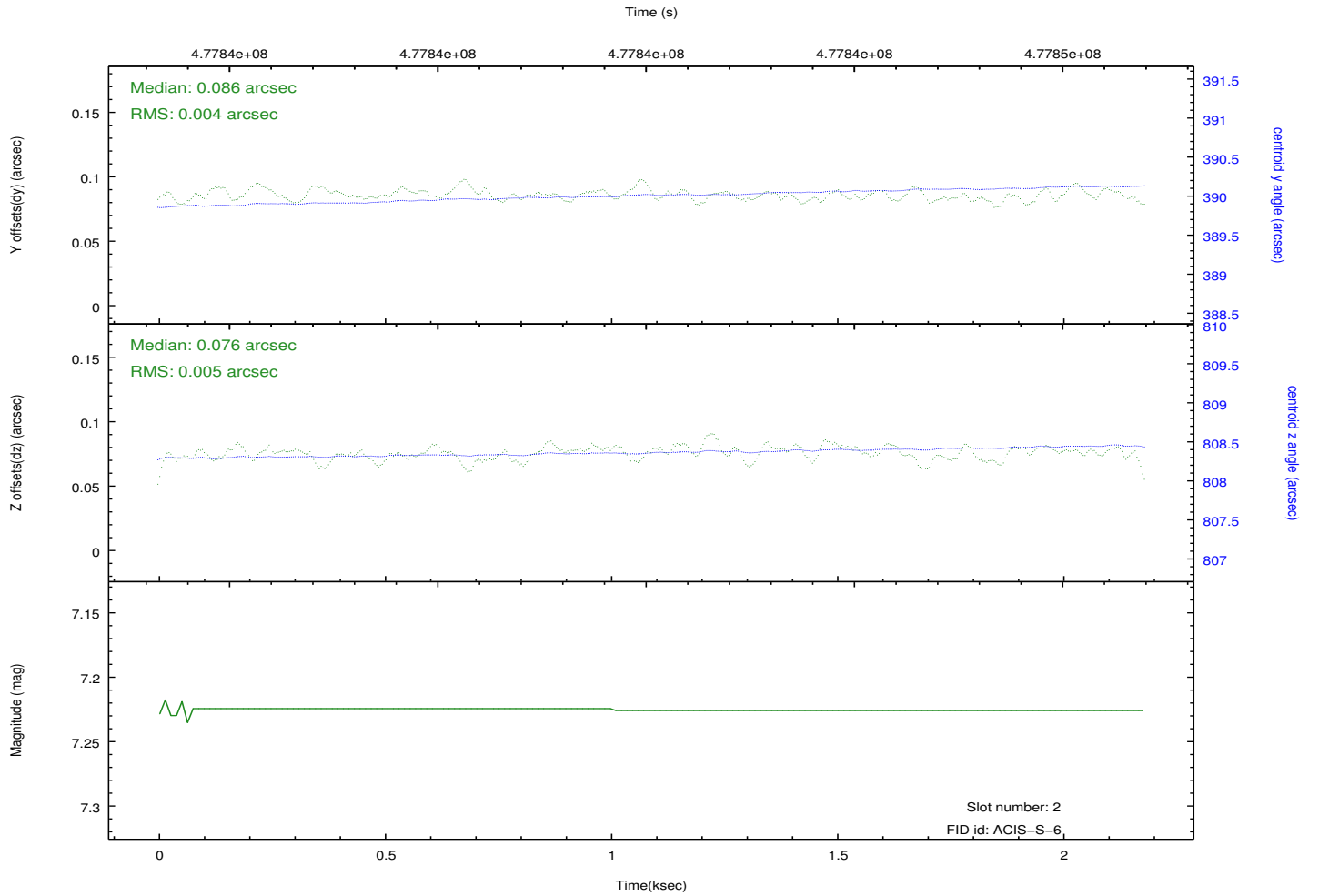
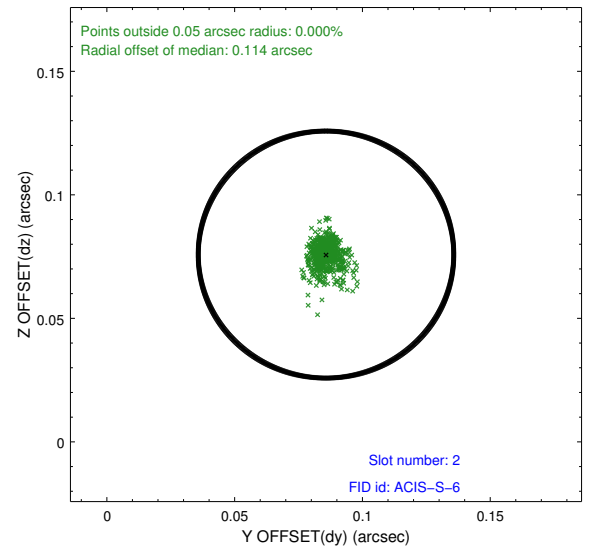
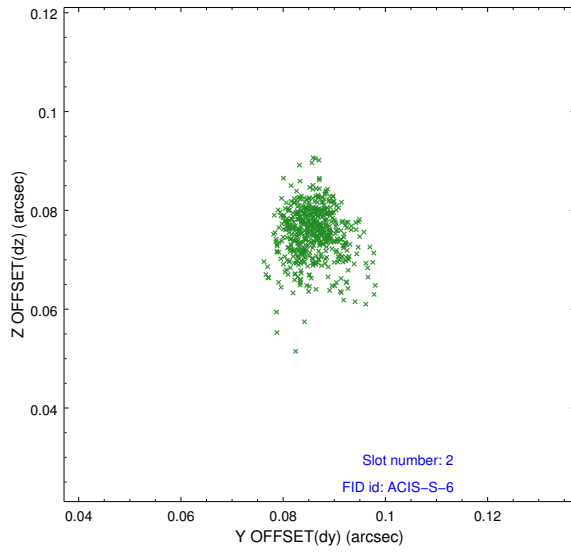
2.5.1 Slot 0



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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.084

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.