

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17215 - L2 Version 1
Chandra X-Ray Center

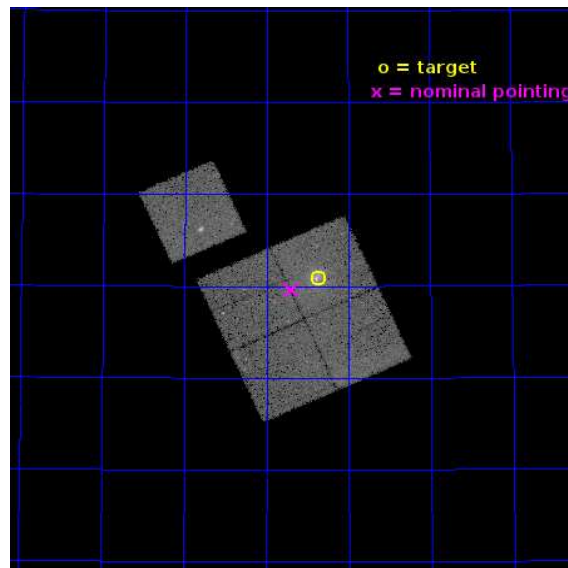
L2 Processing Date : Nov 21 2015

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1 Front

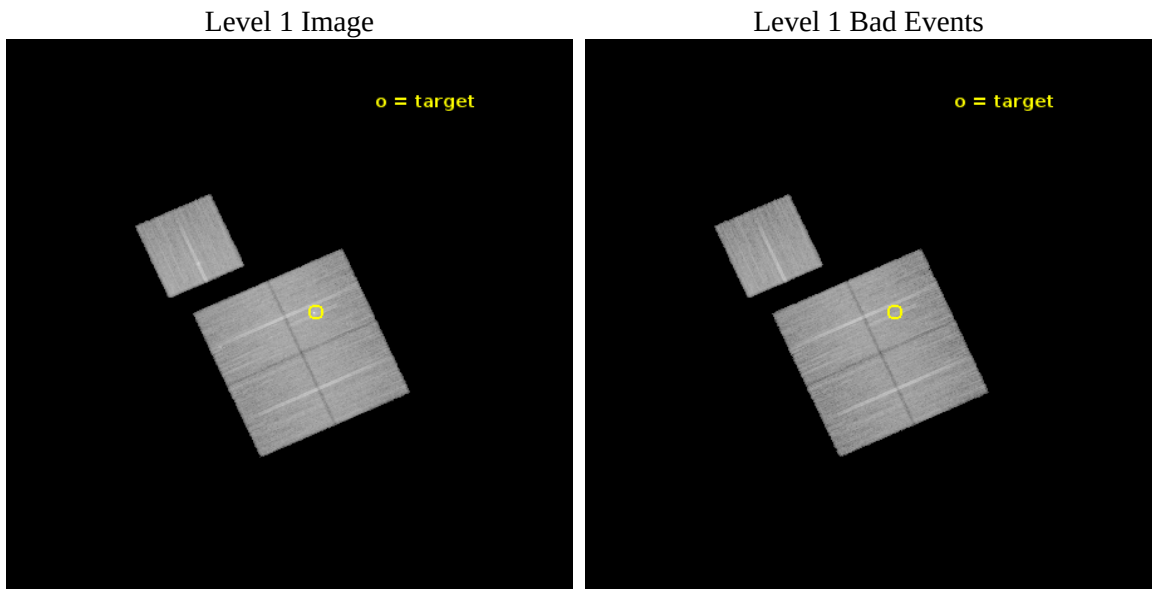
seq_num	801495	Sequence number
obs_id	17215	Observation id
title	DISTANT GALAXY CLUSTERS HOSTING EXTREME CENTRAL GALAXIES	Proposal
observer	Dr Michael McDonald	Principal investigator
object	RXJ1727.3+5510	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	261.842083	Observer's specified target RA [deg]
dec_targ	55.180278	Observer's specified target Dec [deg]
ra_nom	261.92413052265	Nominal RA [deg]
dec_nom	55.160427471052	Nominal Dec [deg]
roll_nom	335.64093309401	Nominal Roll [deg]
revision	1	Processing version of data
ontime	35070.029608846	Sum of GTIs [s]
livetime	34611.813853826	Livetime [s]
ontime0	35073.047579169	Sum of GTIs [s]
ontime1	35054.242667556	Sum of GTIs [s]
ontime2	35073.129659176	Sum of GTIs [s]
ontime3	35070.029608846	Sum of GTIs [s]
ontime6	35073.006539106	Sum of GTIs [s]
l2events	99464	Number of level 2 events



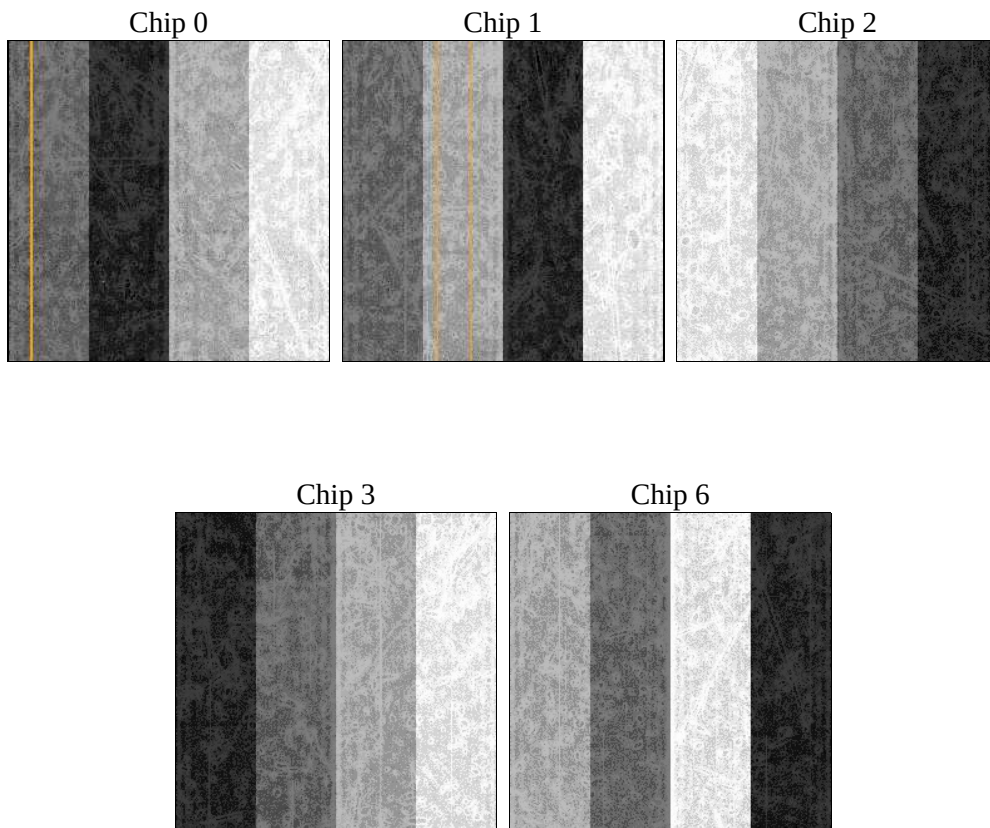
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	35000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	35070.029608846	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	35073.047579169	Sum of GTIs [s]
date	2015-11-22T04:26:54	Date and time of file creation	ontime1	35054.242667556	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	35073.129659176	Sum of GTIs [s]
			ontime3	35070.029608846	Sum of GTIs [s]
			ontime6	35073.006539106	Sum of GTIs [s]
			l1events	936288	Number of level 1 events

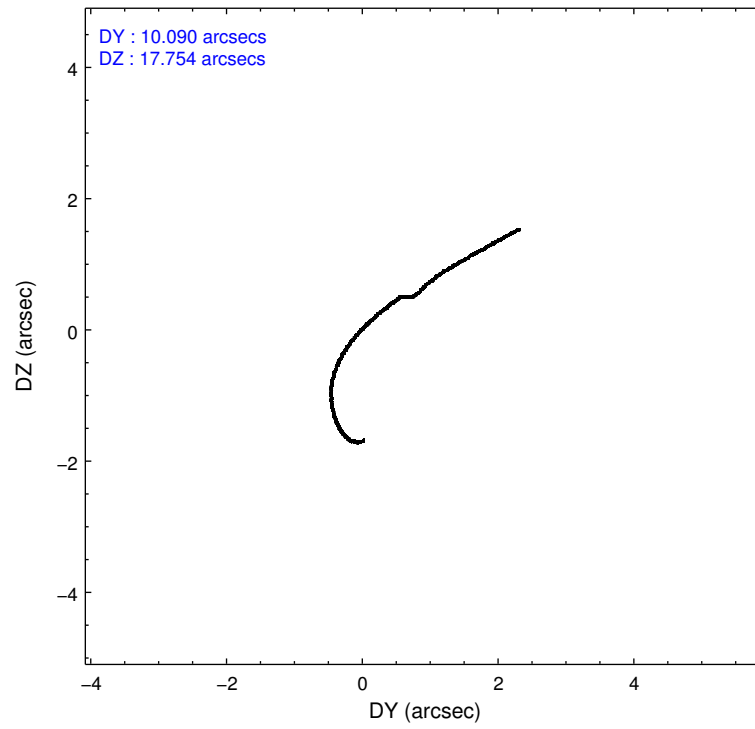
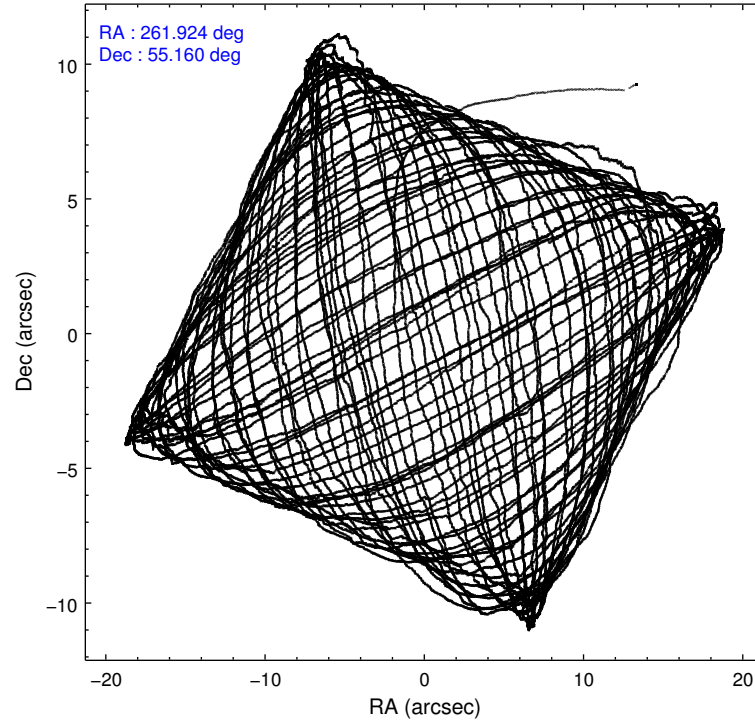
2.1.4 Events

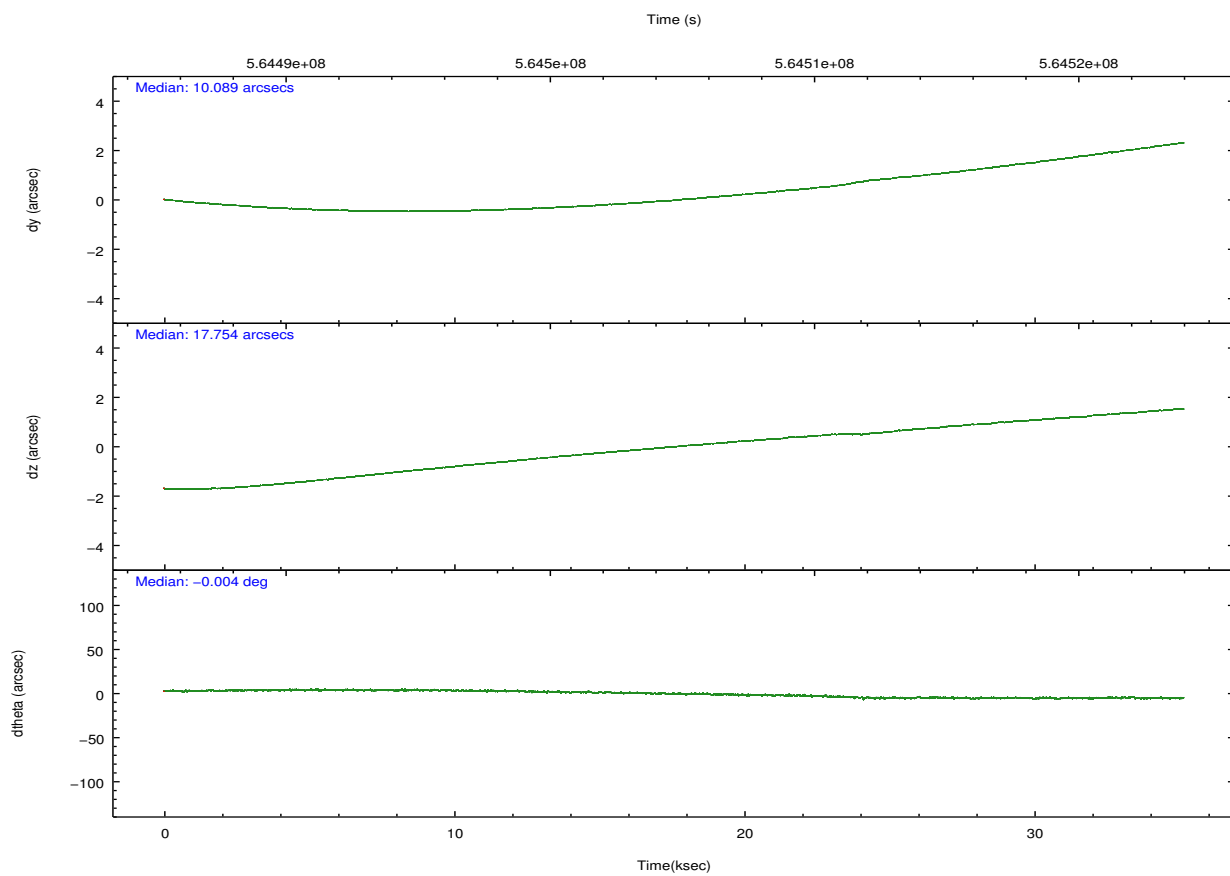
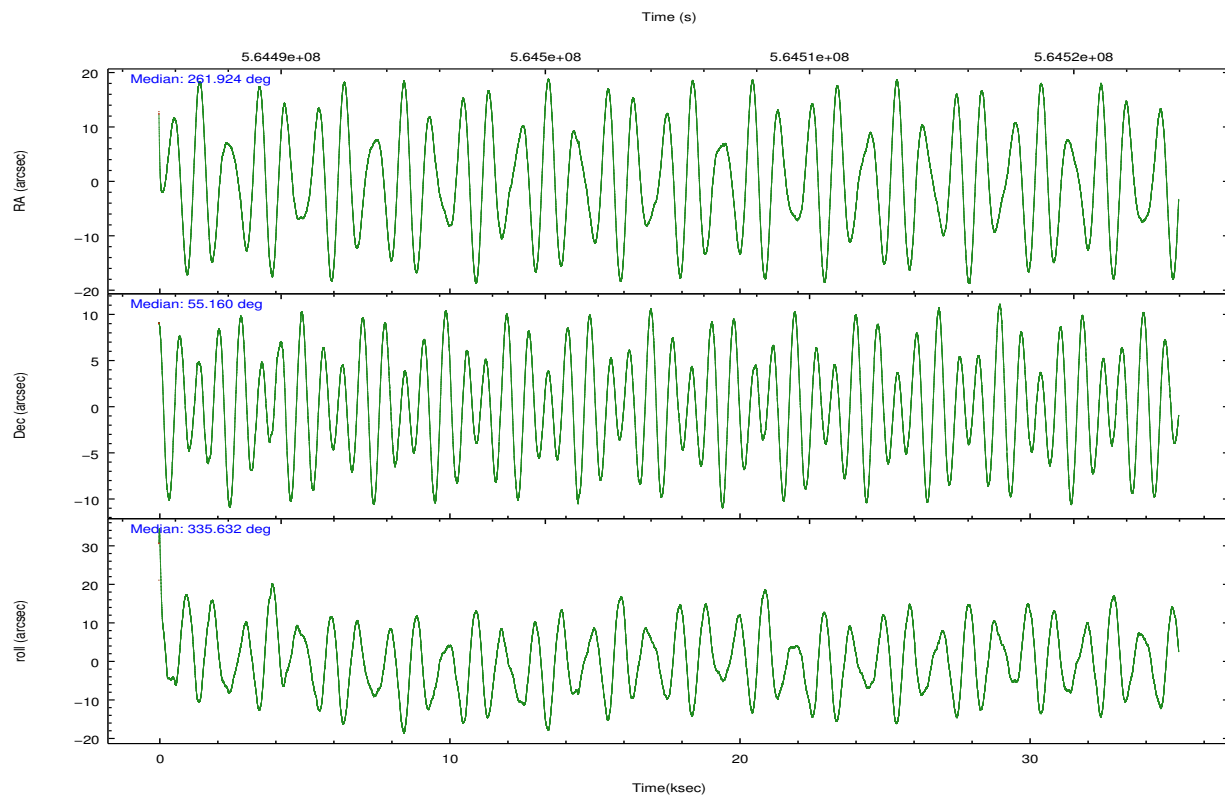
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	173443	178881	197017	194274	192673	grade 0 events	7247	7919	7798	12688	7989
rejected events	151939	155104	175714	167143	169688		4%	4%	3%	6%	4%
rejected %	87%	86%	89%	86%	88%	grade 1 events	85	74	110	141	97
							0%	0%	0%	0%	0%
						grade 2 events	5434	5882	5176	5301	5289
							3%	3%	2%	2%	2%
						grade 3 events	2334	2311	2095	2432	2221
							1%	1%	1%	1%	1%
						grade 4 events	2012	2264	2107	2299	2225
							1%	1%	1%	1%	1%
						grade 5 events	8193	8806	7809	9502	8984
							4%	4%	3%	4%	4%
						grade 6 events	4491	5405	4132	4417	5271
							2%	3%	2%	2%	2%
						grade 7 events	143647	146220	167790	157494	160597
							82%	81%	85%	81%	83%

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	261.876080	261.9241305226474	CCD I2 on	Y	Y
[deg] Pointing Dec	55.157610	55.16042747105203	CCD I3 on	Y	Y
[deg] Pointing Roll	335.471678	335.6409330940118	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	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	564487226.184000	564486135.44102	CCD S5 on	N	N
Observation start date	2015-11-21T09:59:18	2015-11-21T09:42:15	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	564522226.184000	564523070.8056099	On-chip summing requested	N	N
Observation end date	2015-11-21T19:42:38	2015-11-21T19:57:50	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



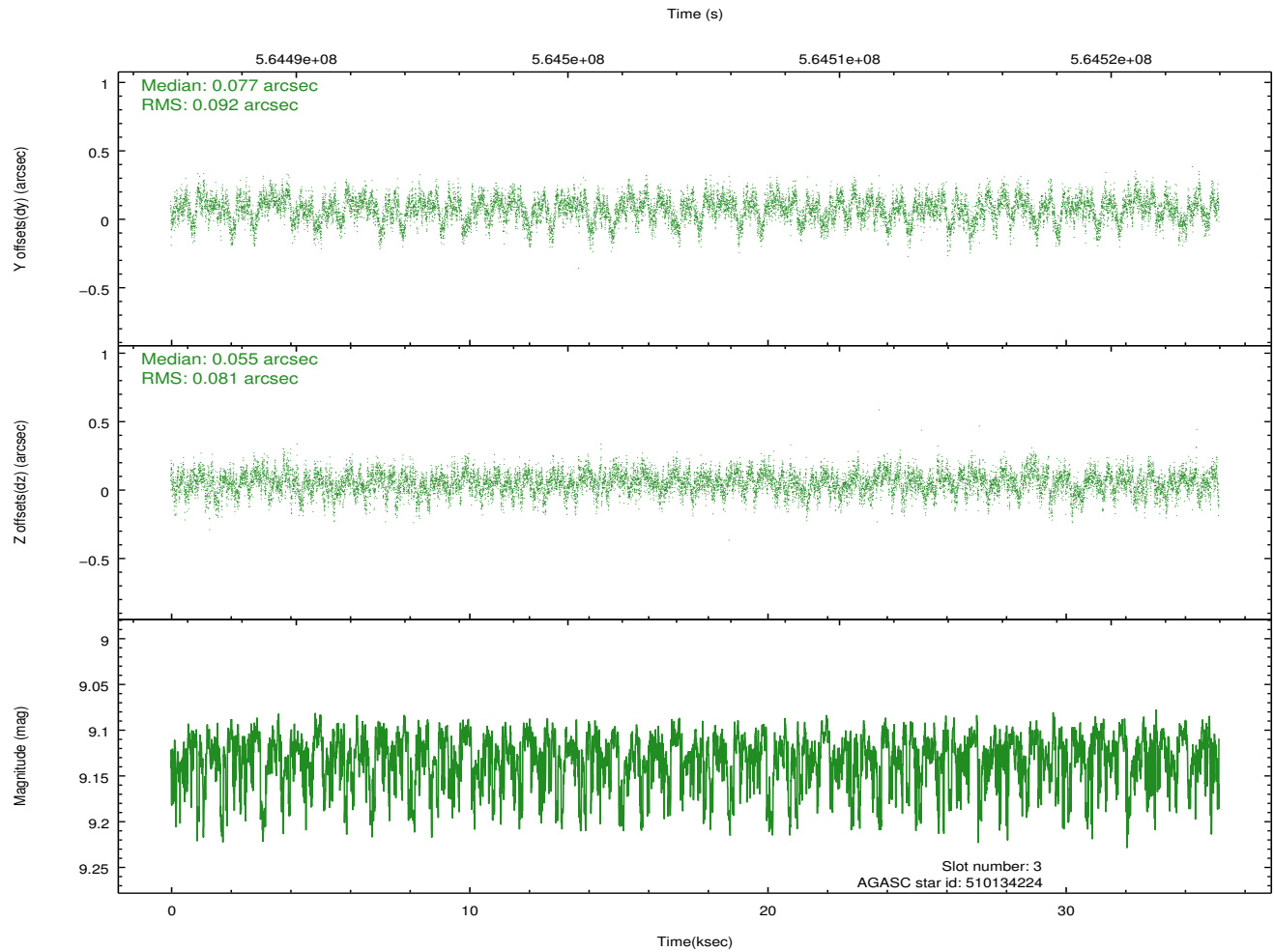
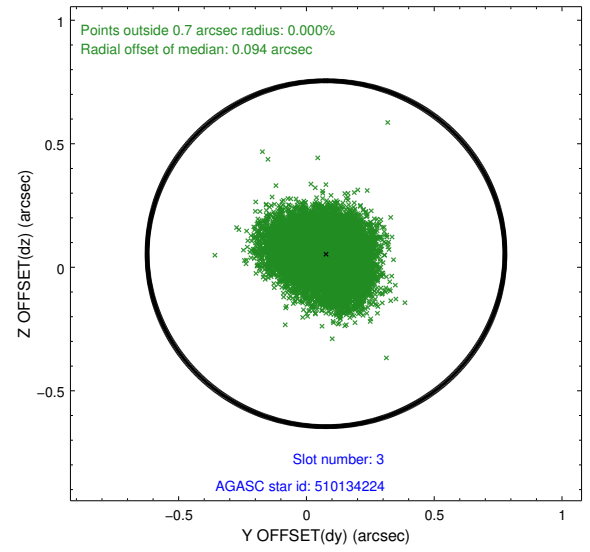
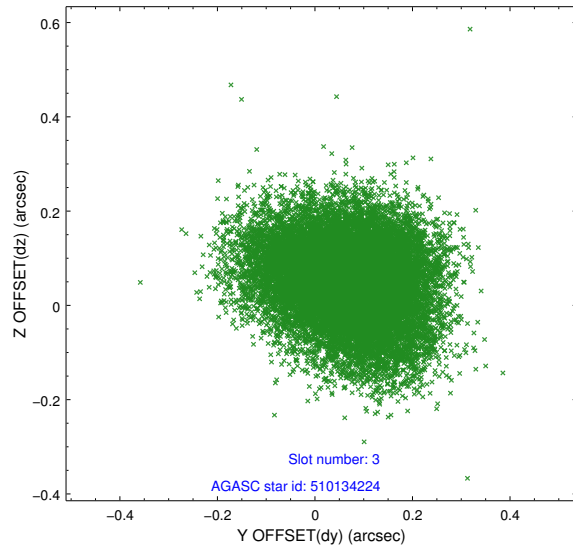


Slot Statistics

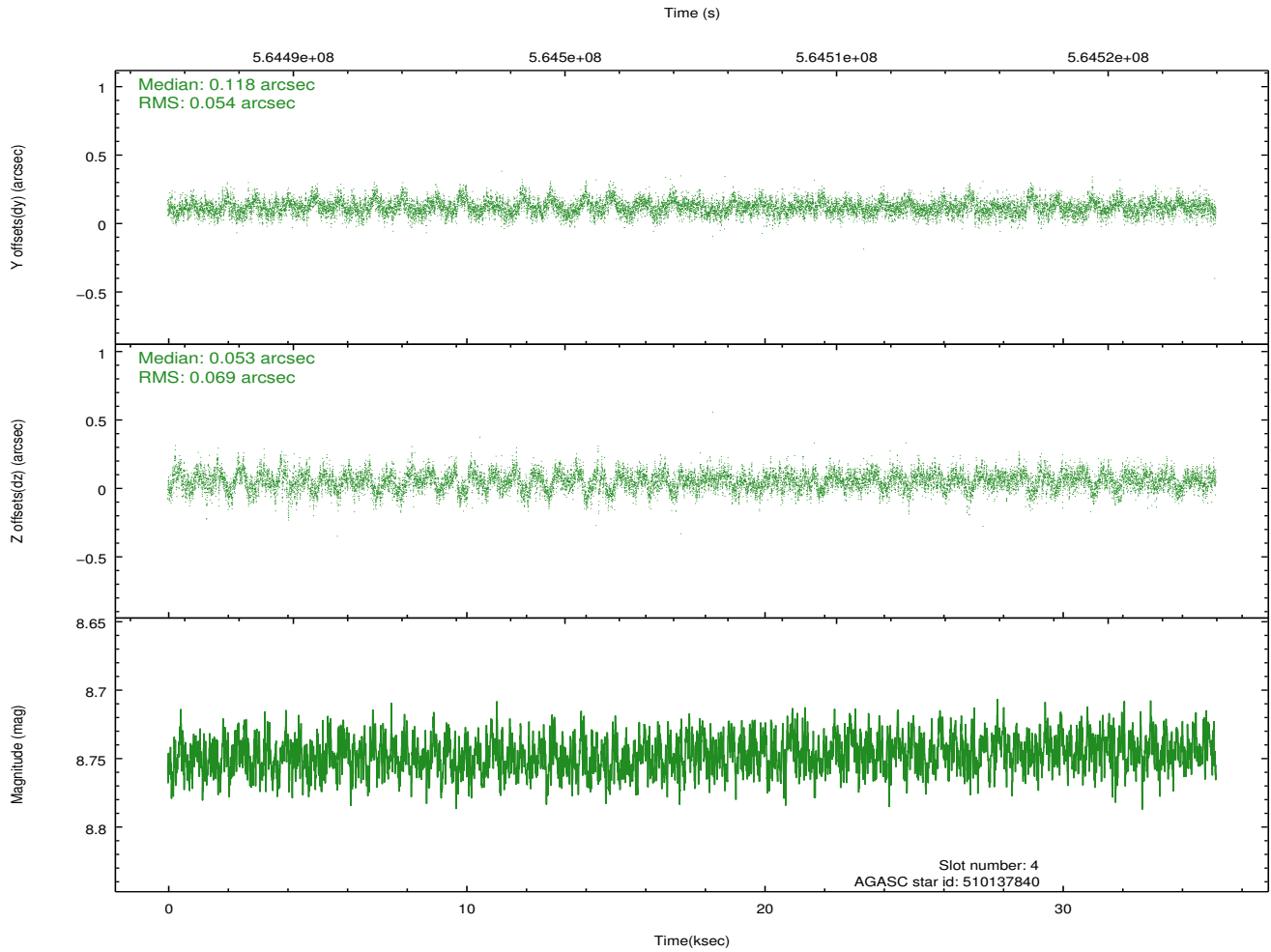
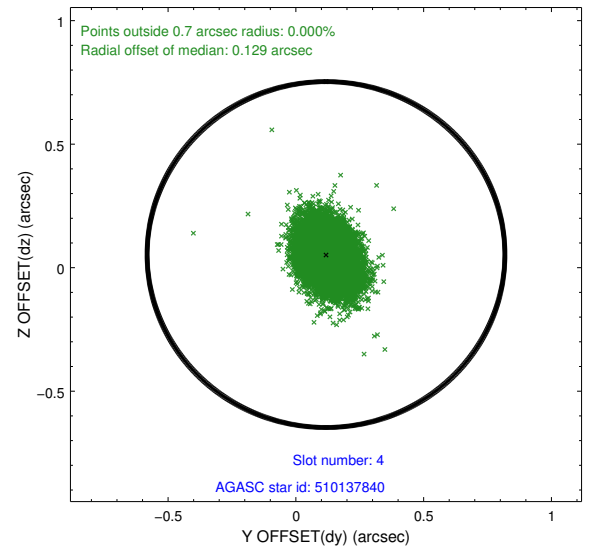
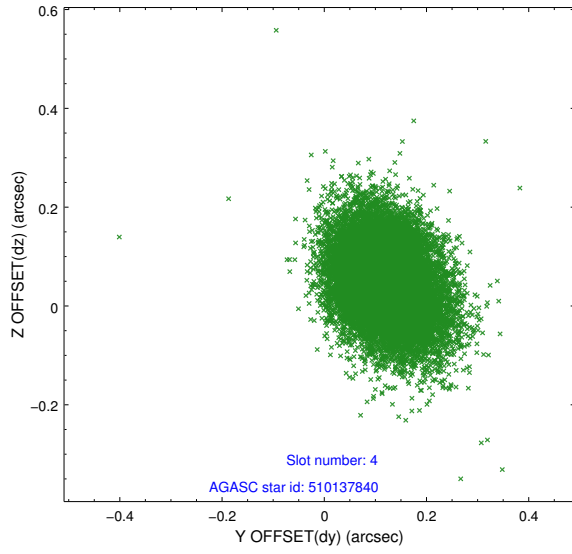
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.23	8572	0.148	-0.125	0.040	0.069	0.000000	0.000000	929.15	-1000.53
1	FID		ACIS-I-5	7.23	8574	-0.336	0.104	0.018	0.028	0.000000	0.000000	-1819.48	897.06
2	FID		ACIS-I-6	7.26	8575	0.096	0.101	0.028	0.054	0.000000	0.000000	394.52	1541.70
3	GUIDE	used	510134224	9.13	17130	0.077	0.055	0.130	0.212	262.364298	54.654067	1676.67	-1223.56
4	GUIDE	used	510137840	8.75	17136	0.118	0.053	0.091	0.153	261.788151	55.378774	-493.87	650.03
5	GUIDE	used	510138784	8.24	17148	-0.024	-0.059	0.074	0.126	261.501965	55.732963	-1550.84	1571.52
6	GUIDE	used	510139368	7.78	17144	0.026	0.380	0.085	0.137	260.990913	55.279207	-1837.39	-344.68
7	GUIDE	used	510138200	9.22	17128	-0.191	-0.423	0.129	0.207	262.287369	55.748478	-126.19	2283.18

2.4 Star Slots

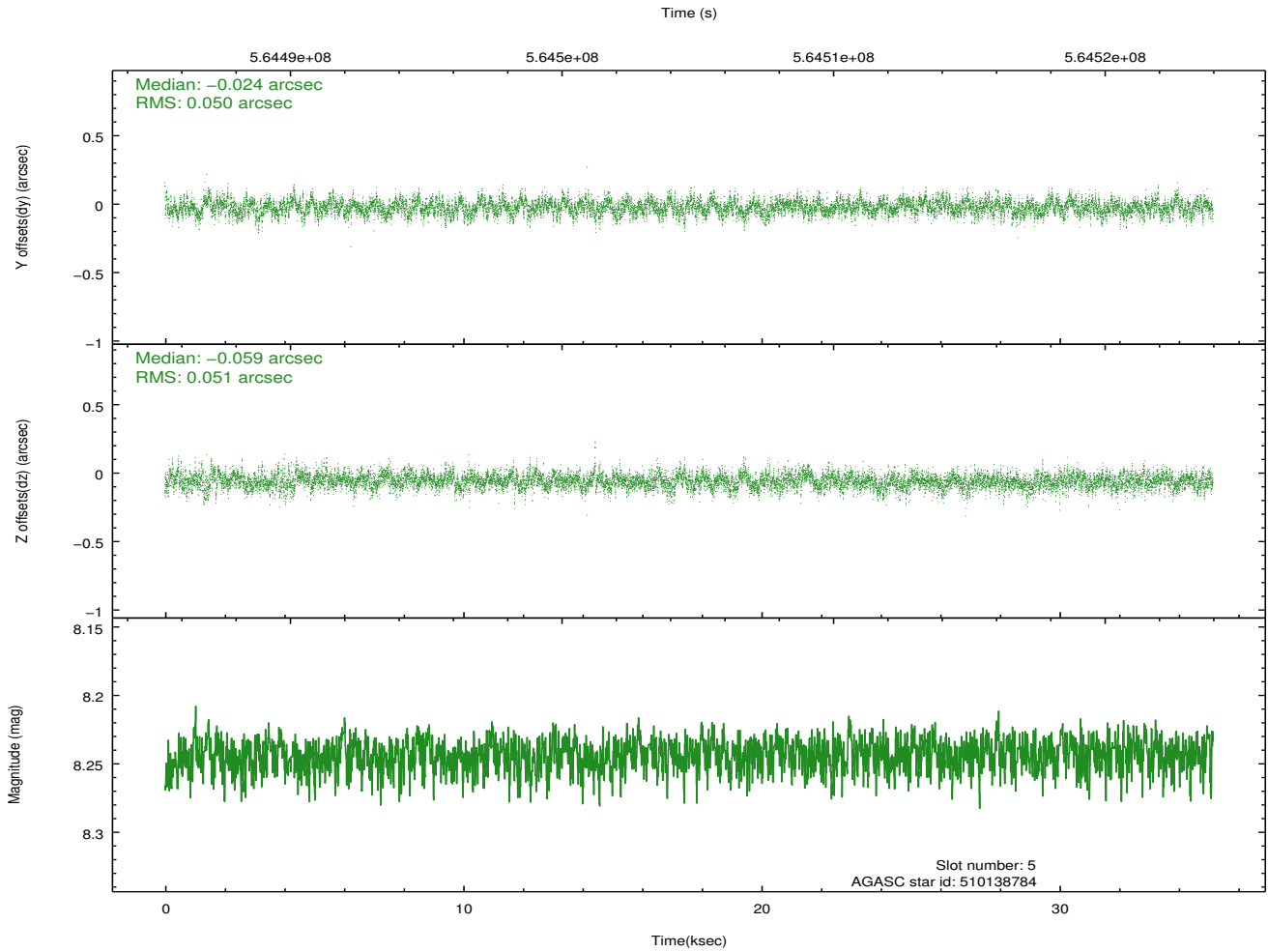
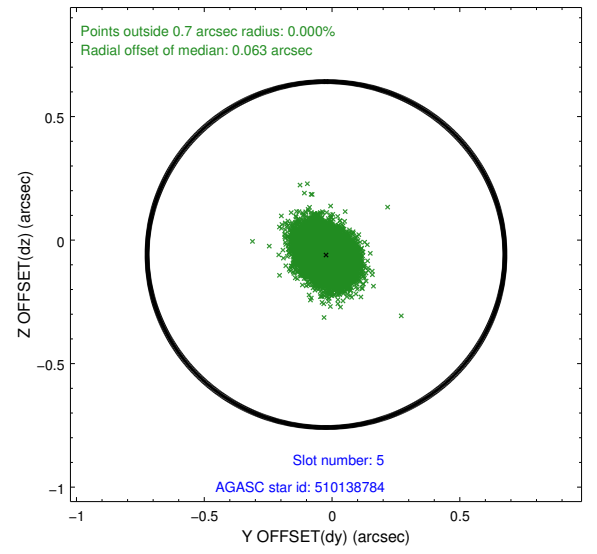
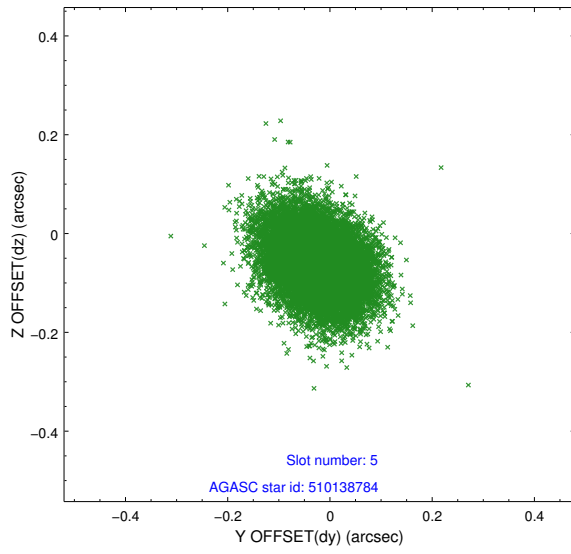
2.4.1 Slot 3



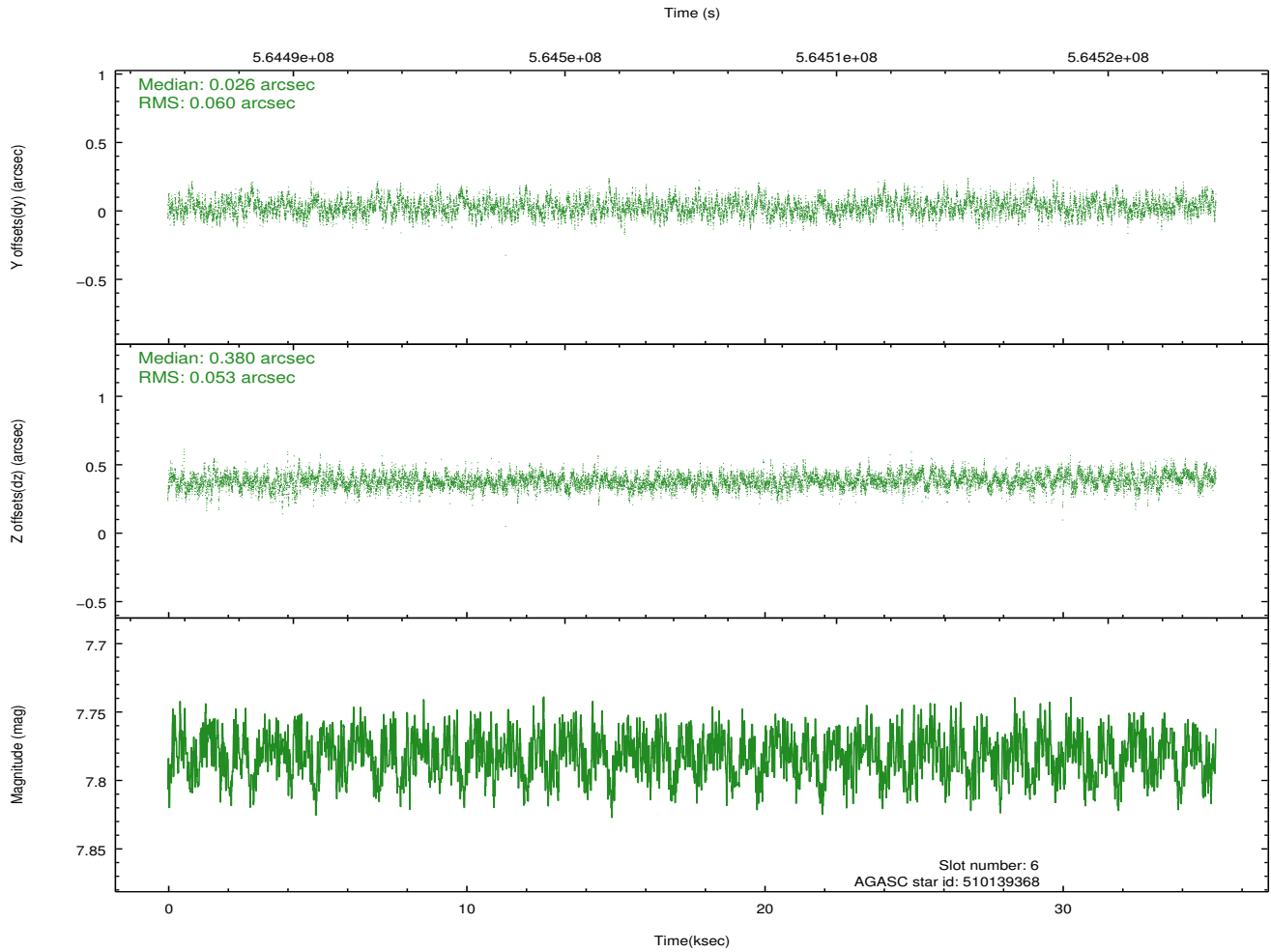
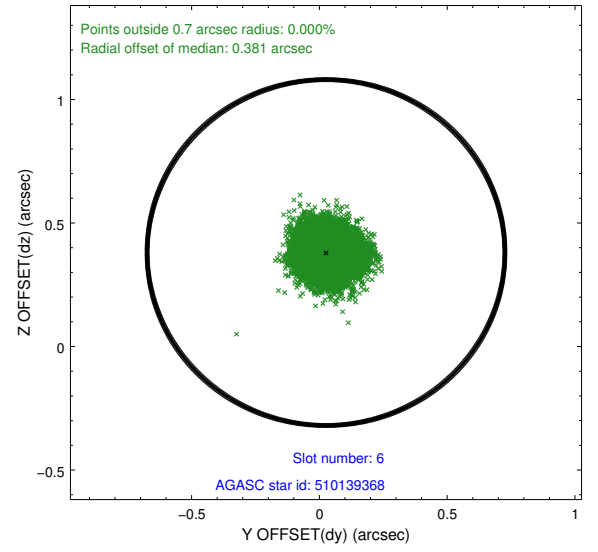
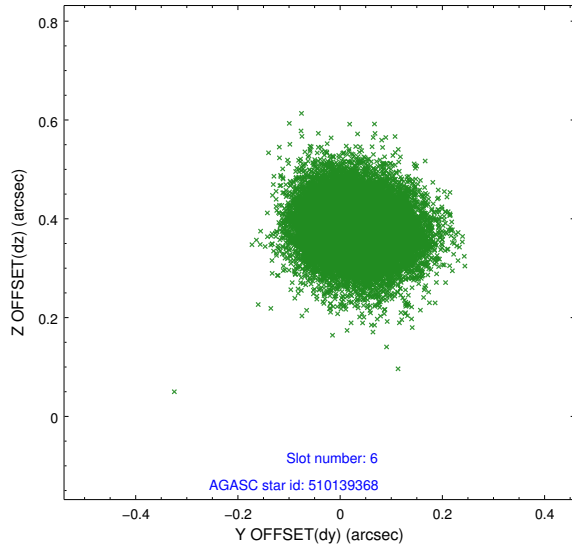
2.4.2 Slot 4



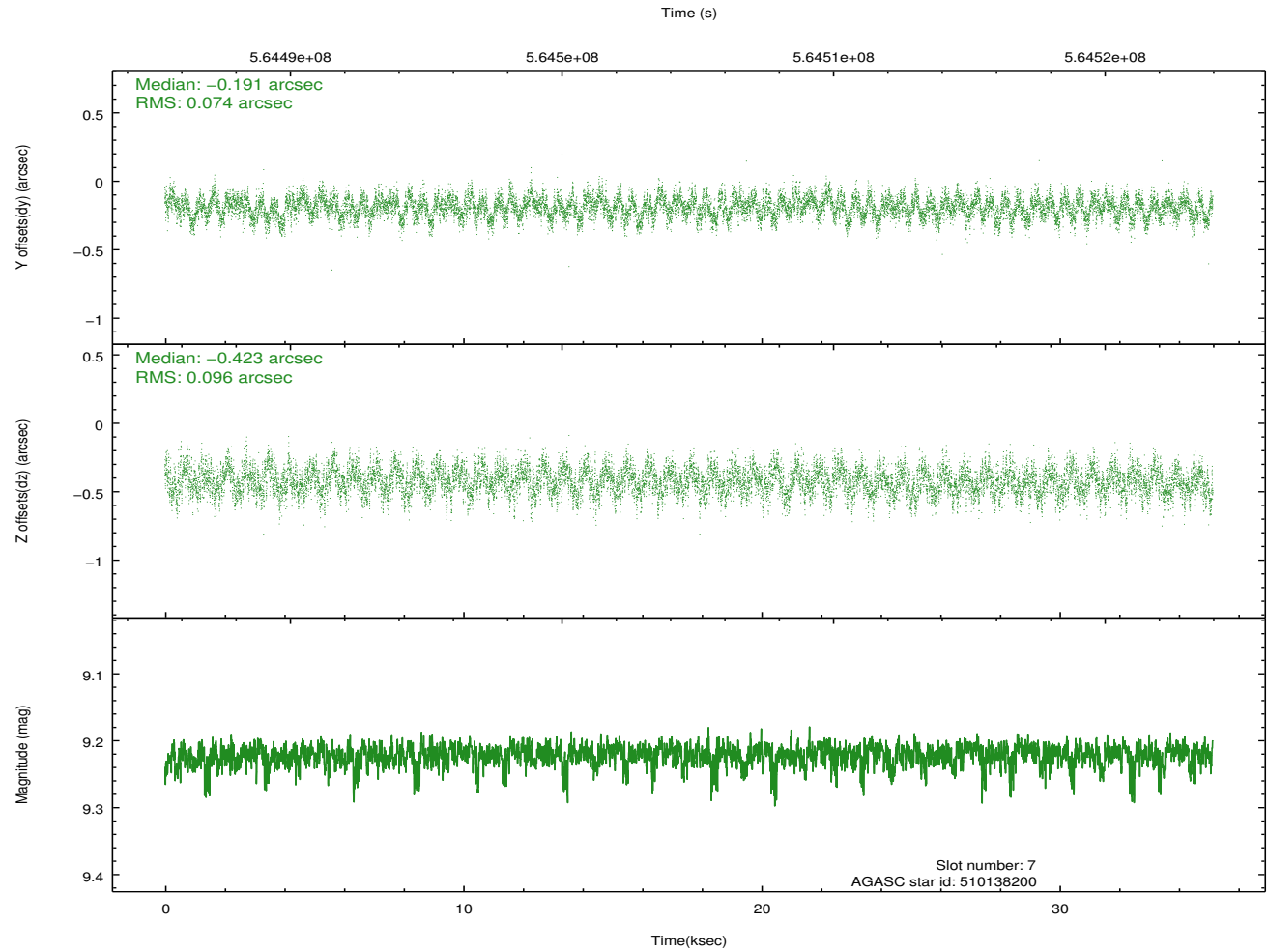
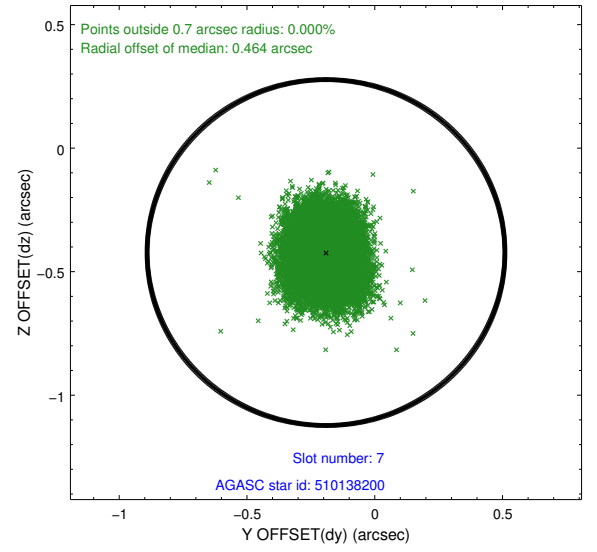
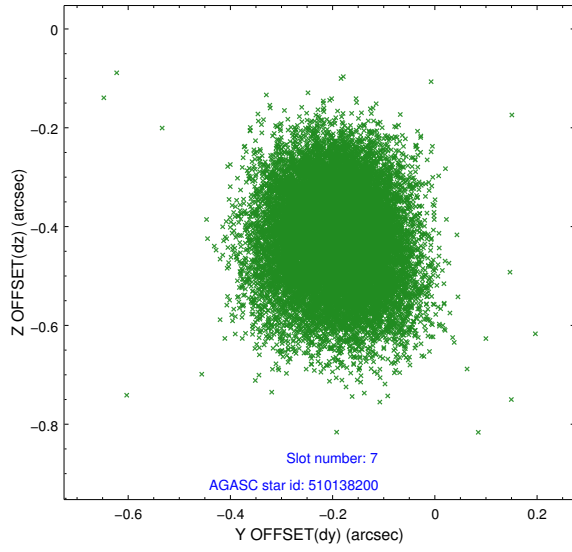
2.4.3 Slot 5



2.4.4 Slot 6

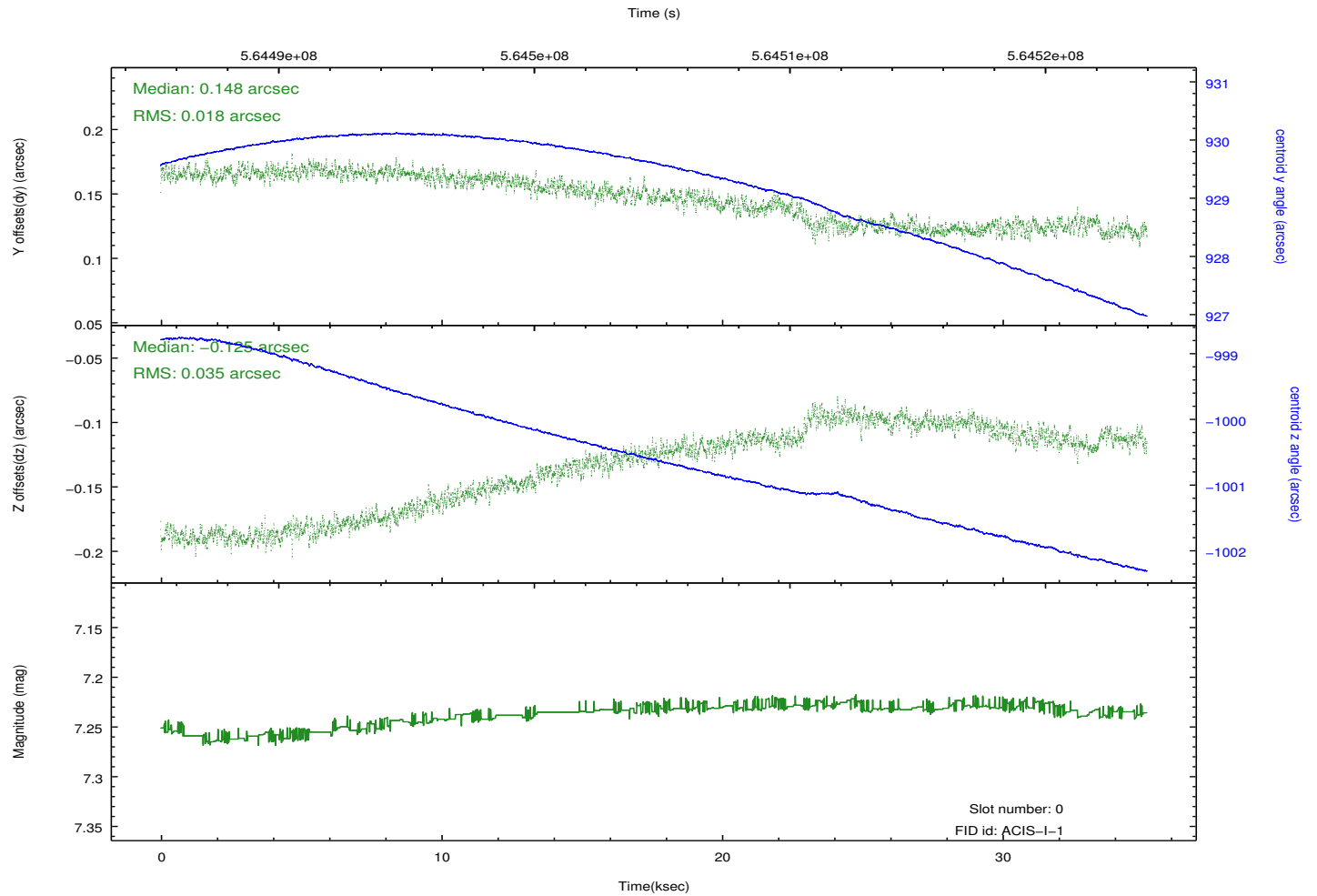
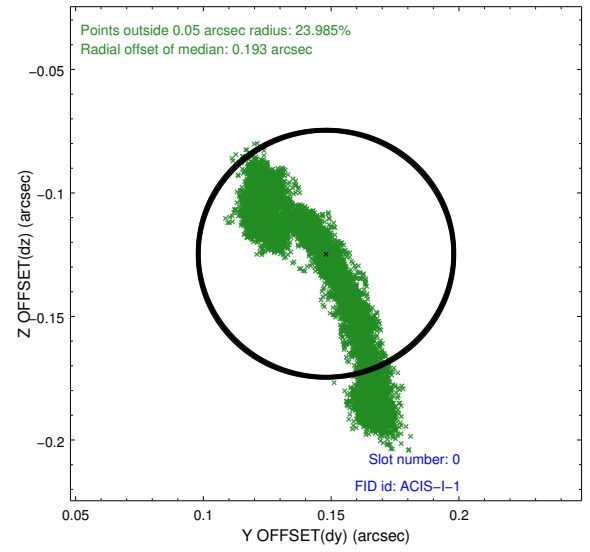
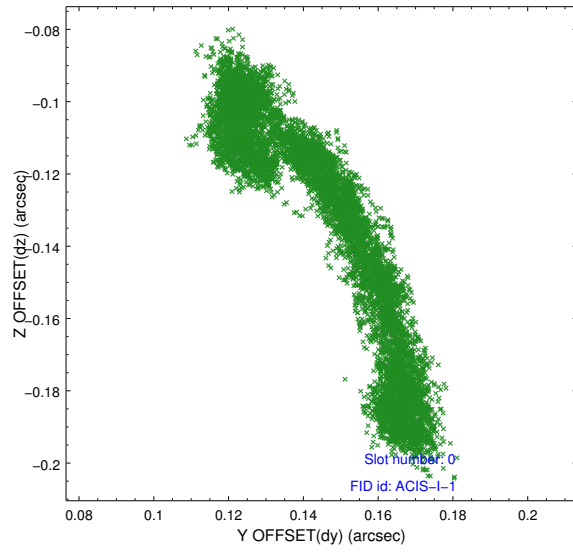


2.4.5 Slot 7

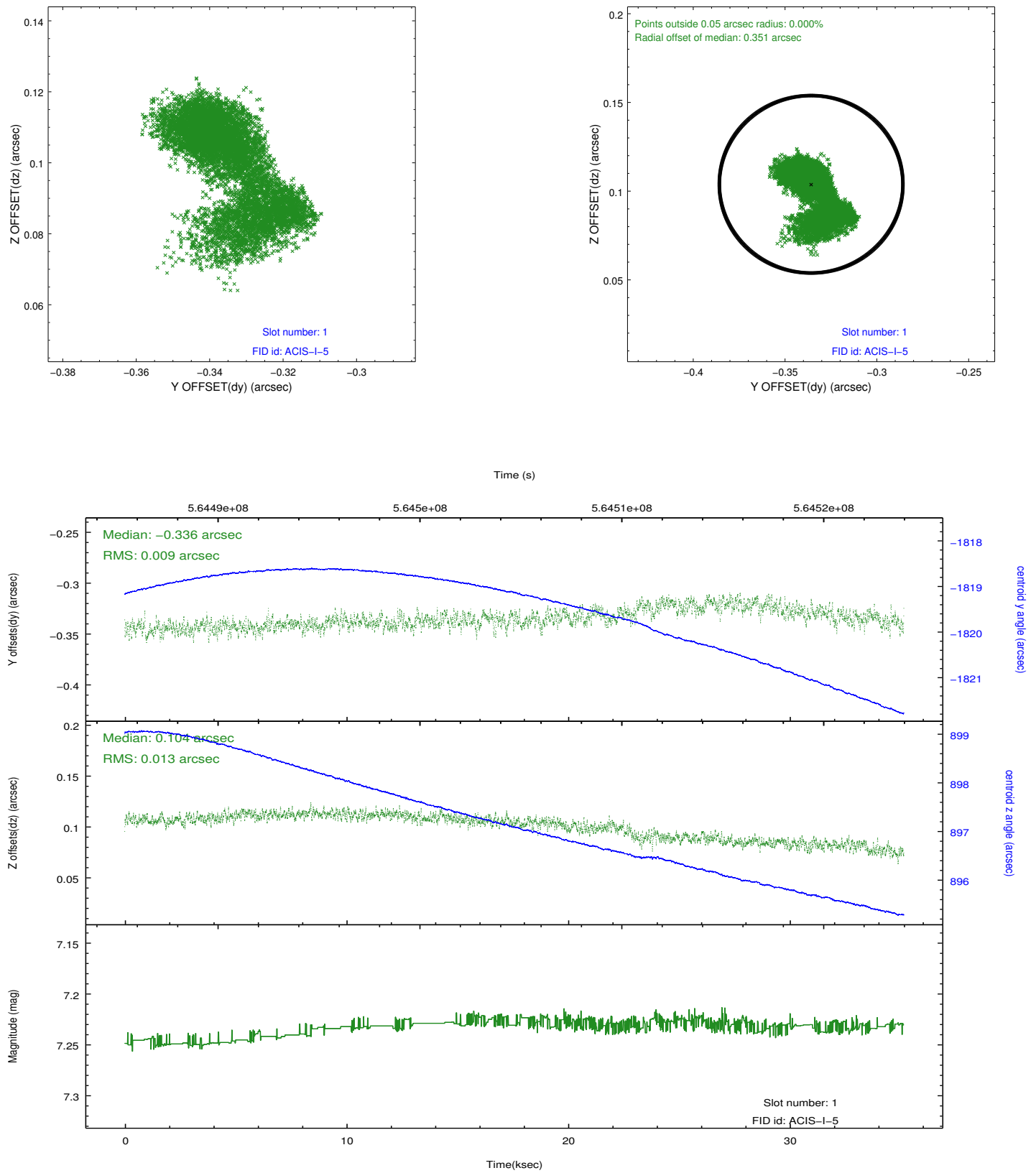


2.5 FID Slots

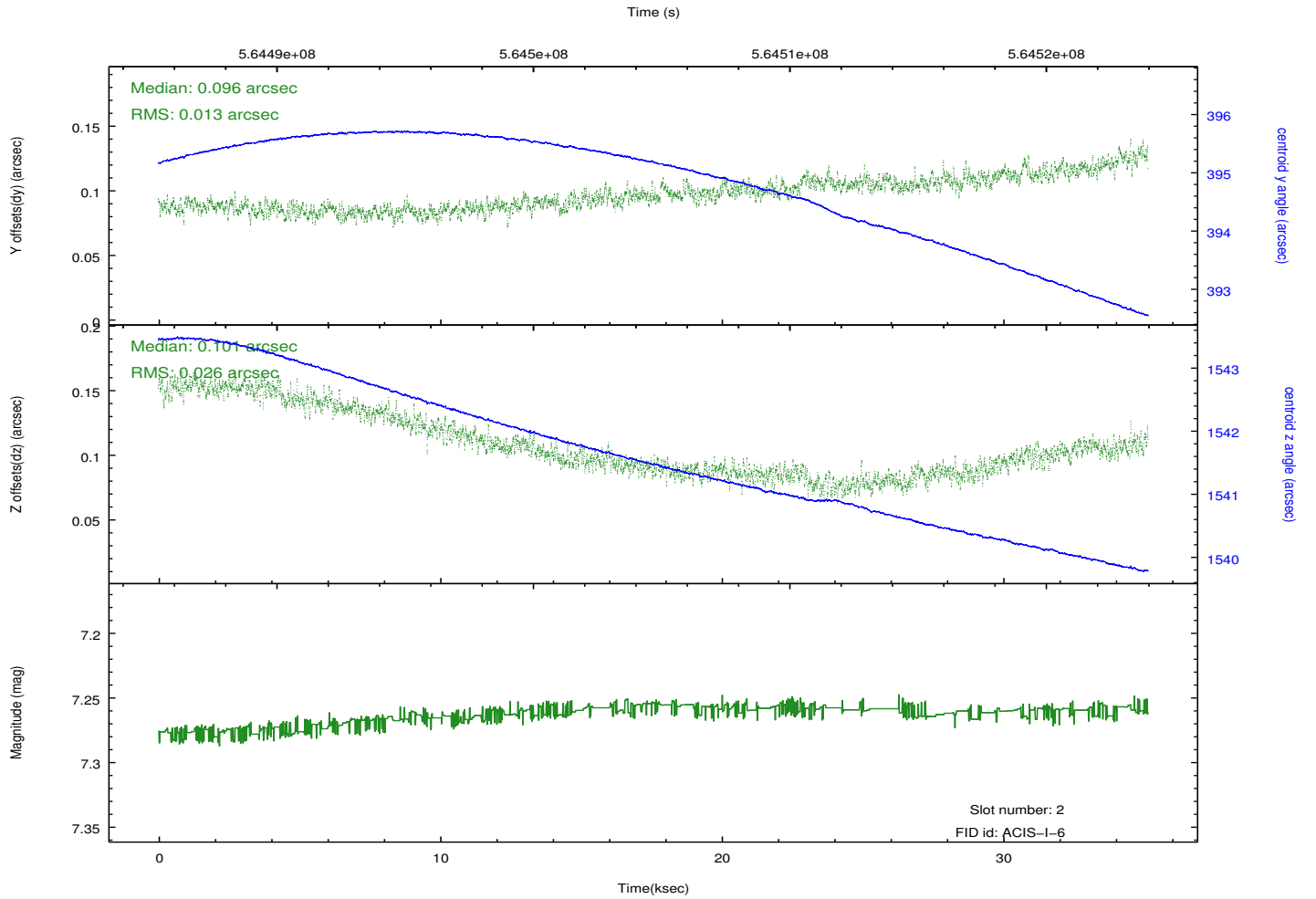
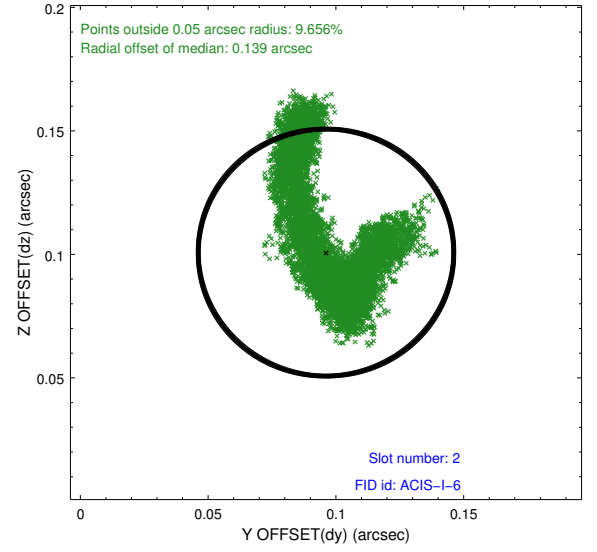
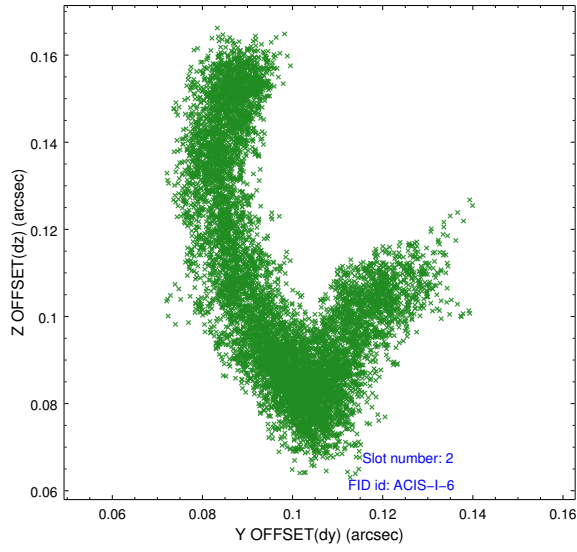
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.11.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.070029608846

A.2 Comments