

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 17209 - L2 Version 1
Chandra X-Ray Center

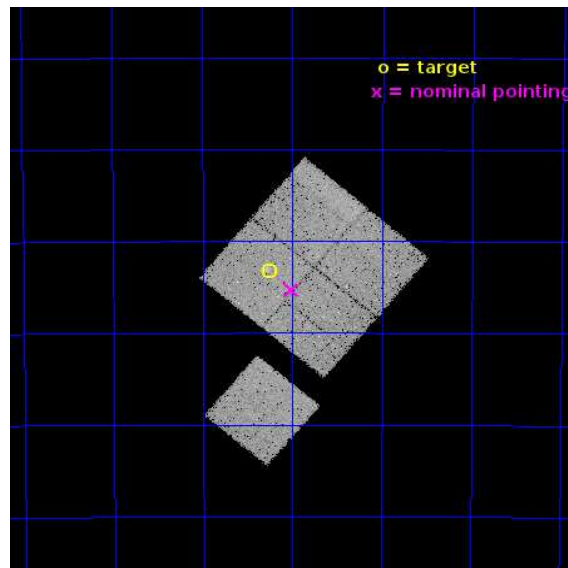
L2 Processing Date : May 21 2016

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1 Front

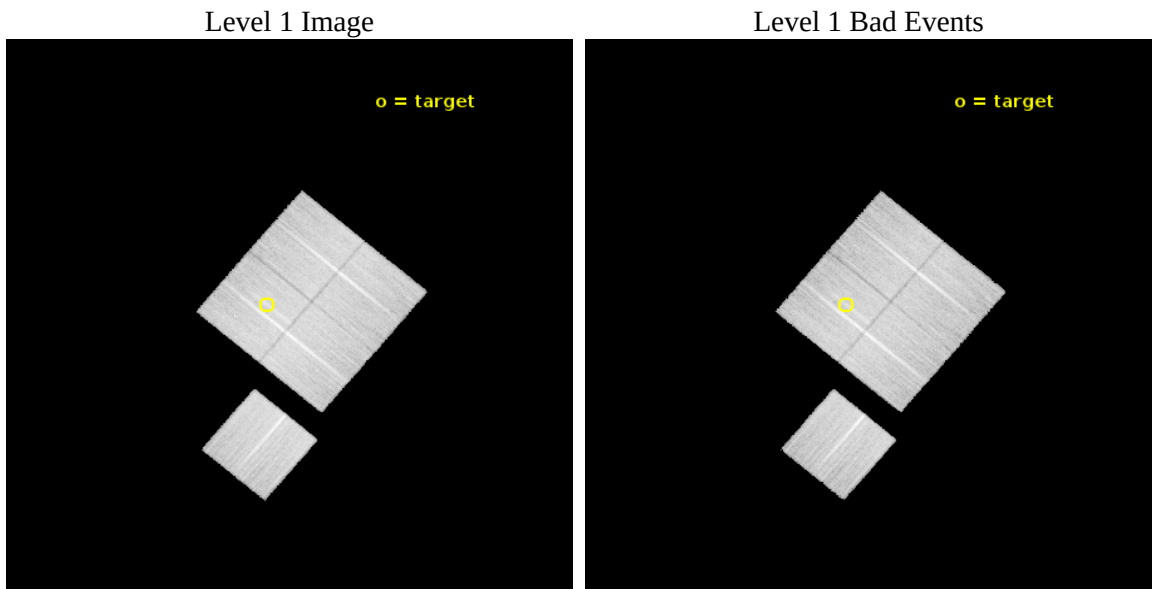
seq_num	801489	Sequence number
obs_id	17209	Observation id
title	A MASS-LIMITED SURVEY OF GALAXY CLUSTERS AT $1.2 < z < 1.7$: PROBING THE PHYSICS OF THE ICM DURING ITS ASSEMBLY	Proposal title
observer	Michael McDonald	Principal investigator
object	SPT-CLJ0640-5113	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	100.065	Observer's specified target RA [deg]
dec_targ	-51.220389	Observer's specified target Dec [deg]
ra_nom	100.00327678596	Nominal RA [deg]
dec_nom	-51.254786392068	Nominal Dec [deg]
roll_nom	219.99589896293	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30077.92350781	Sum of GTIs [s]
livetime	29684.933294135	Livetime [s]
ontime0	30077.800387859	Sum of GTIs [s]
ontime1	30077.841427803	Sum of GTIs [s]
ontime2	30074.741497517	Sum of GTIs [s]
ontime3	30077.92350781	Sum of GTIs [s]
ontime6	30077.759347796	Sum of GTIs [s]
l2events	86572	Number of level 2 events



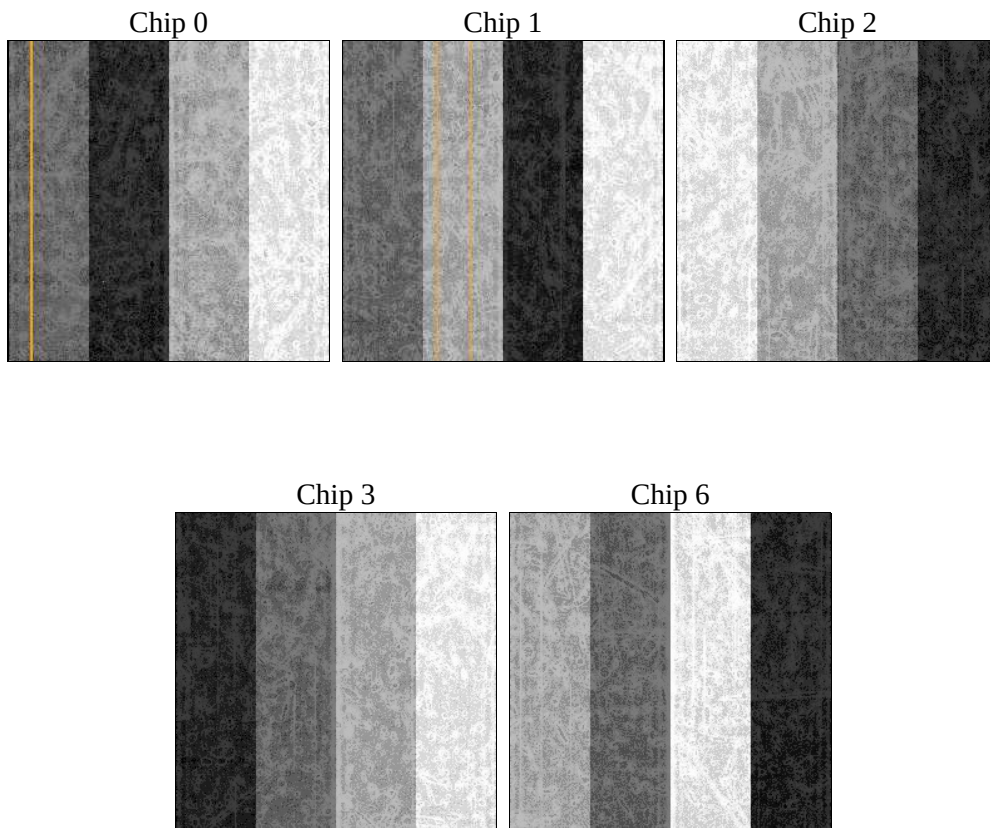
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	30077.92350781	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	30077.800387859	Sum of GTIs [s]
date	2016-05-21T14:28:48	Date and time of file creation	ontime1	30077.841427803	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	30074.741497517	Sum of GTIs [s]
			ontime3	30077.92350781	Sum of GTIs [s]
			ontime6	30077.759347796	Sum of GTIs [s]
			l1events	867399	Number of level 1 events

2.1.4 Events

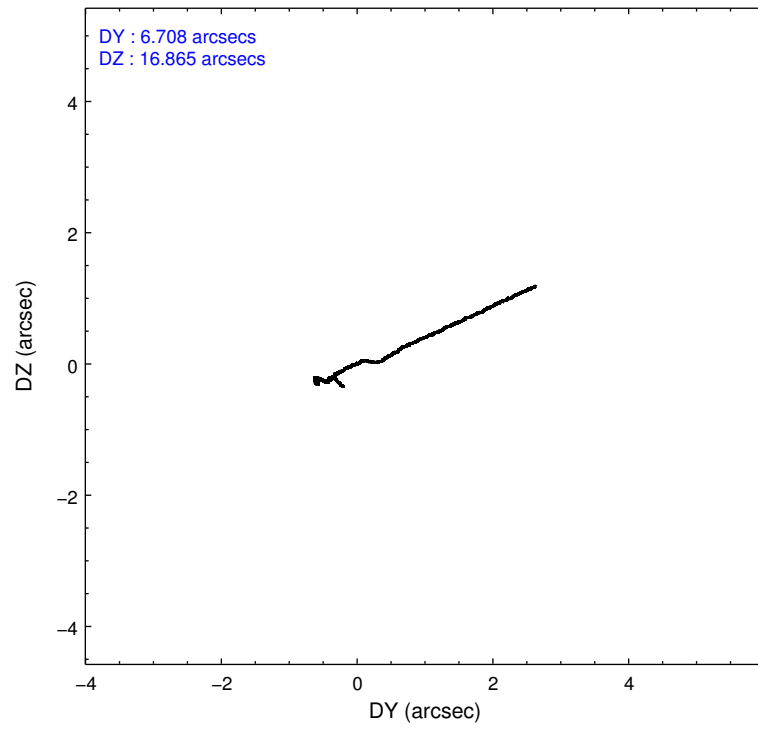
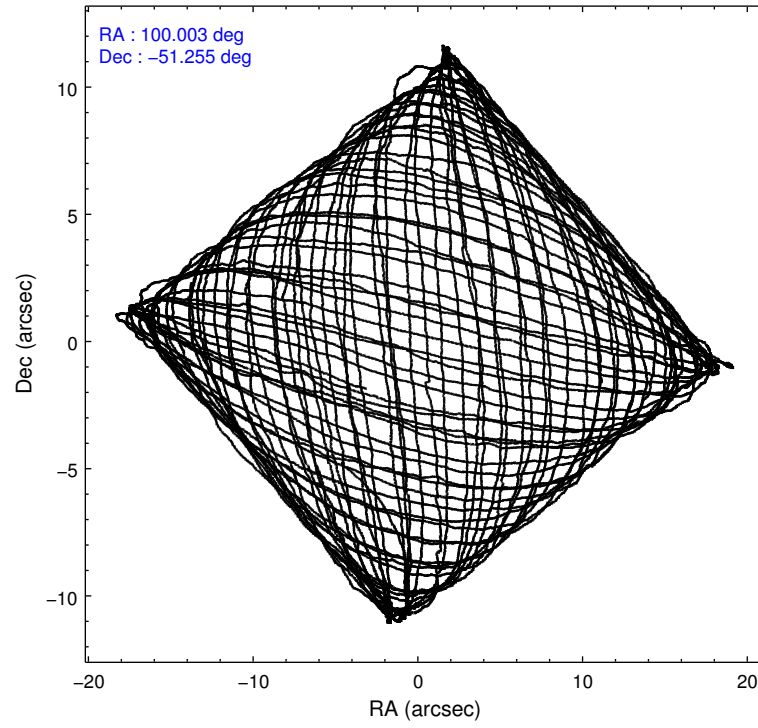
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	164026	166466	179875	179857	177175
rejected events	143727	144185	159376	160297	156730
rejected %	87%	86%	88%	89%	88%

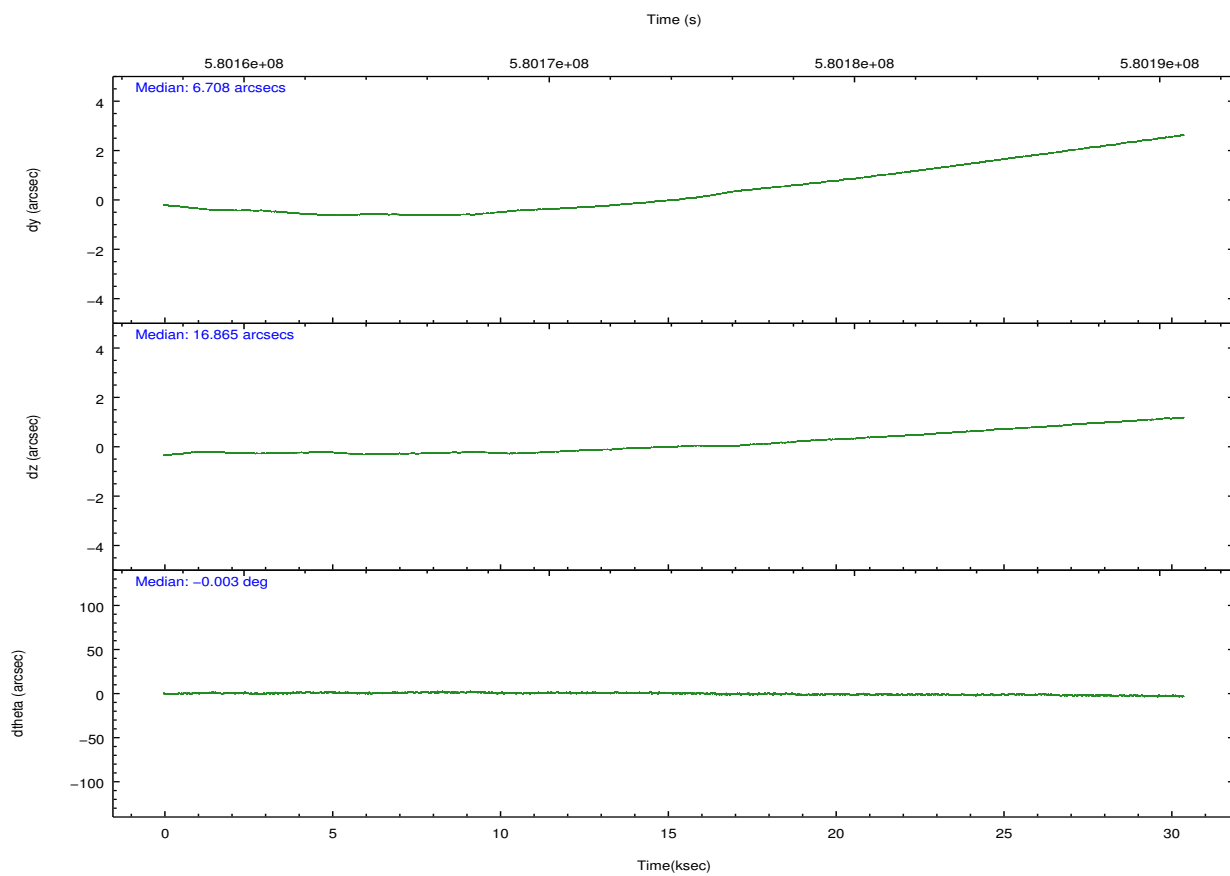
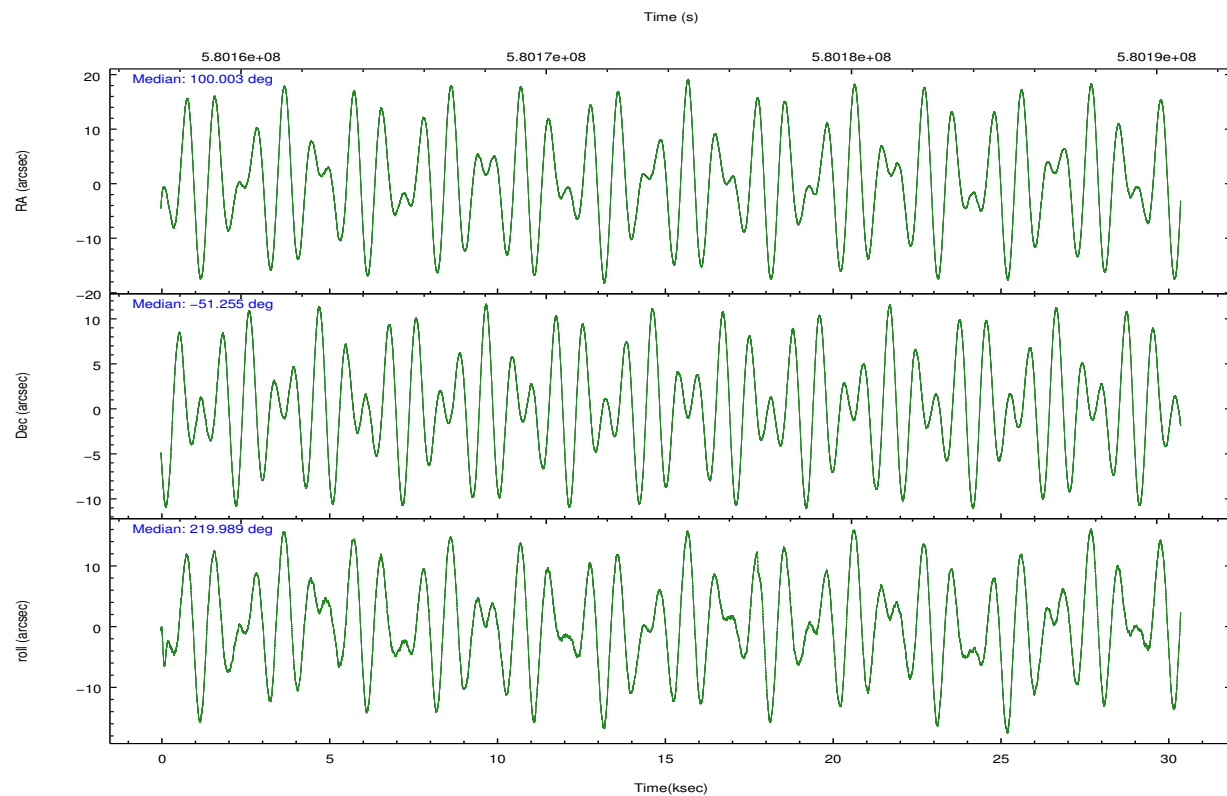
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	6922	7426	7326	7017	6827
	4%	4%	4%	3%	3%
grade 1 events	87	100	105	112	98
	0%	0%	0%	0%	0%
grade 2 events	5100	5686	5093	4381	4760
	3%	3%	2%	2%	2%
grade 3 events	2074	2146	2014	1987	2082
	1%	1%	1%	1%	1%
grade 4 events	1971	2107	2098	2046	2009
	1%	1%	1%	1%	1%
grade 5 events	7682	8112	7473	8885	8571
	4%	4%	4%	4%	4%
grade 6 events	4234	4921	3970	4135	4771
	2%	2%	2%	2%	2%
grade 7 events	135956	135968	151796	151294	148057
	82%	81%	84%	84%	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	100.018232	100.0032767859591	CCD I2 on	Y	Y
[deg] Pointing Dec	-51.228807	-51.25478639206832	CCD I3 on	Y	Y
[deg] Pointing Roll	219.798874	219.9958989629284	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)	580159266.184000	580158226.36882	CCD S5 on	N	N
Observation start date	2016-05-20T19:19:58	2016-05-20T19:03:46	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	580189266.184000	580189706.68312	On-chip summing requested	N	N
Observation end date	2016-05-21T03:39:58	2016-05-21T03:48:26	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



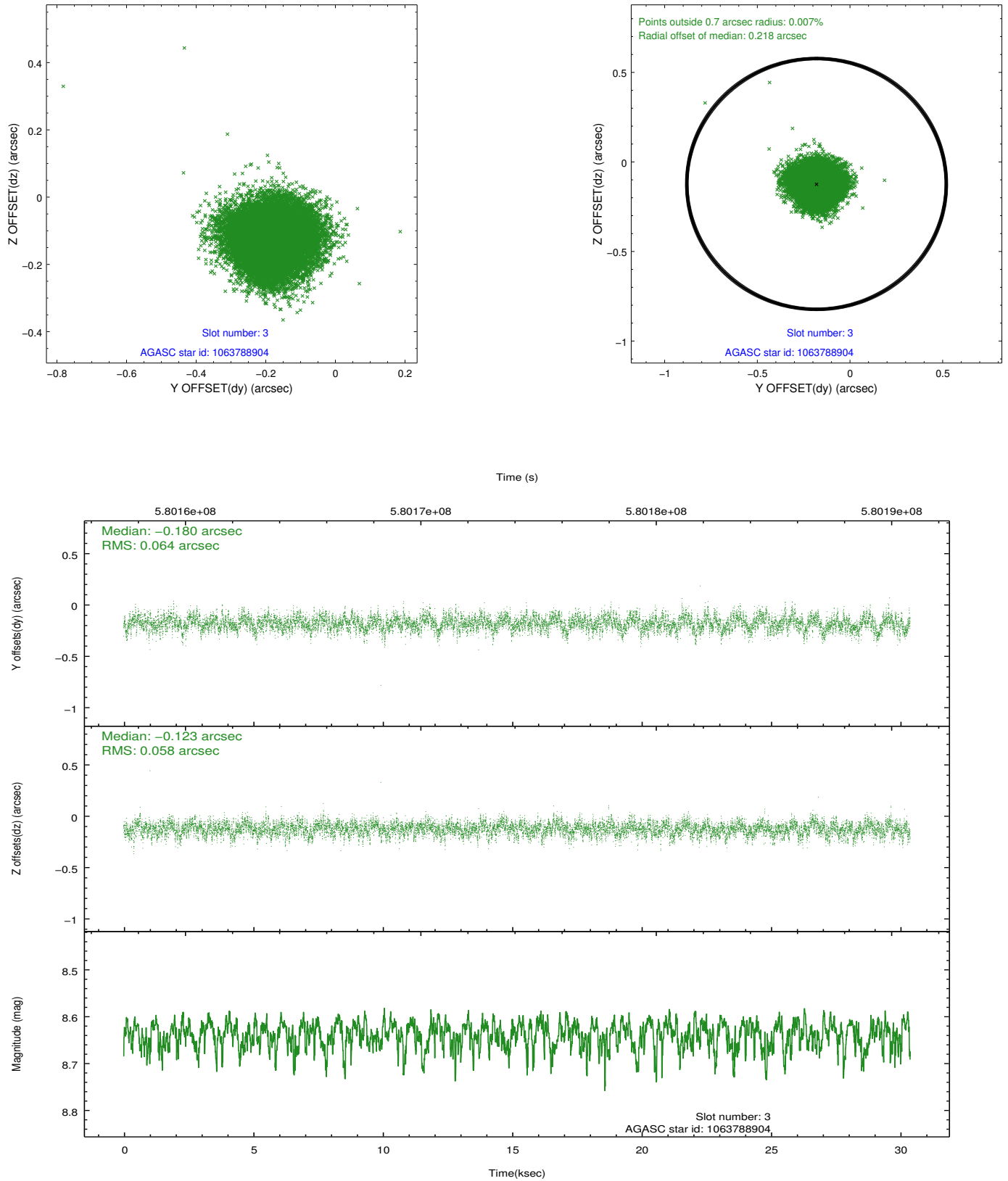


Slot Statistics

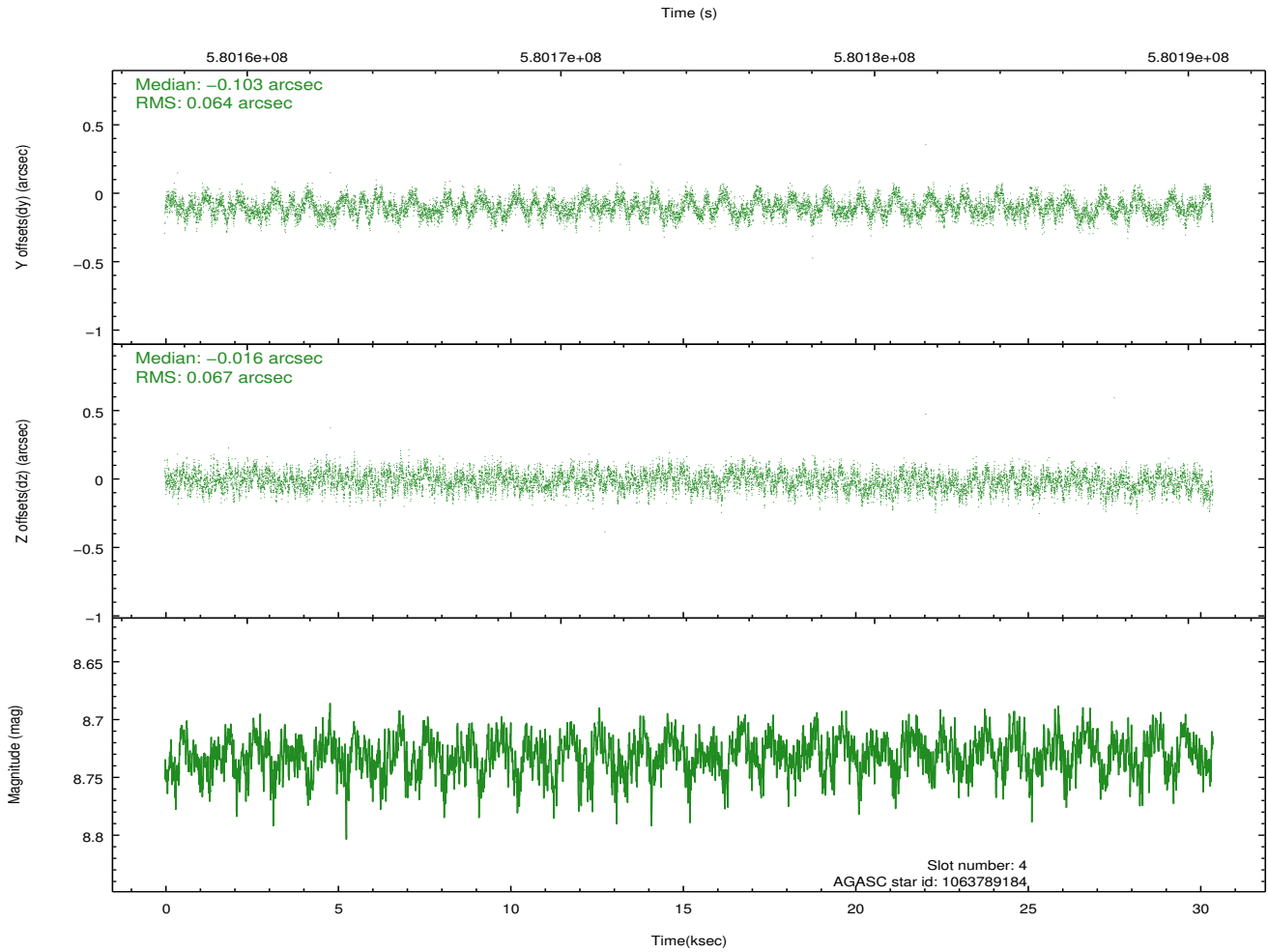
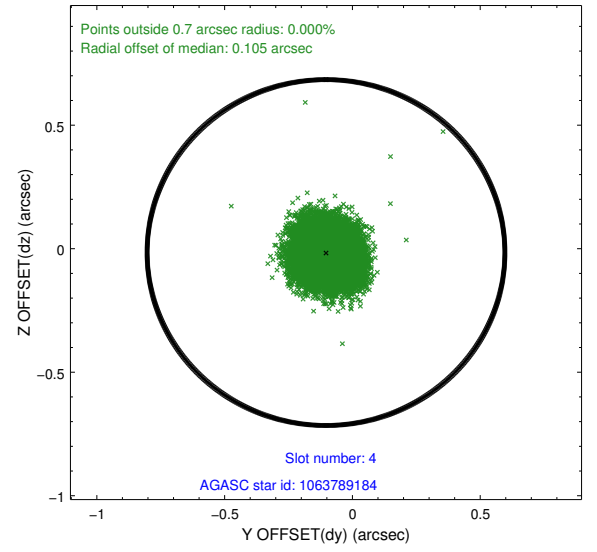
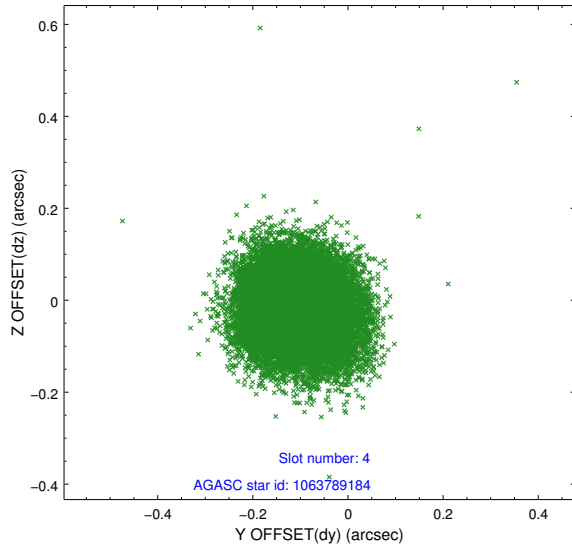
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.22	7411	0.180	-0.181	0.023	0.070	0.000000	0.000000	932.59	-999.92
1	FID		ACIS-I-5	7.22	7411	-0.337	0.127	0.013	0.028	0.000000	0.000000	-1816.03	897.75
2	FID		ACIS-I-6	7.25	7411	0.066	0.120	0.019	0.046	0.000000	0.000000	397.90	1542.38
3	GUIDE	used	1063788904	8.64	14810	-0.180	-0.123	0.093	0.147	99.169777	-51.429850	1933.53	-654.20
4	GUIDE	used	1063789184	8.73	14817	-0.103	-0.016	0.100	0.154	100.183029	-51.669286	733.70	1456.26
5	GUIDE	used	1063792392	9.14	14816	-0.043	0.014	0.110	0.179	101.124908	-51.322233	-1685.57	1866.53
6	GUIDE	used	1063793104	8.82	14811	0.258	0.201	0.101	0.162	99.814404	-50.932863	-325.74	-1113.64
7	GUIDE	used	1063796224	8.34	14814	0.069	-0.076	0.109	0.181	98.682895	-51.216391	2302.57	-1941.71

2.4 Star Slots

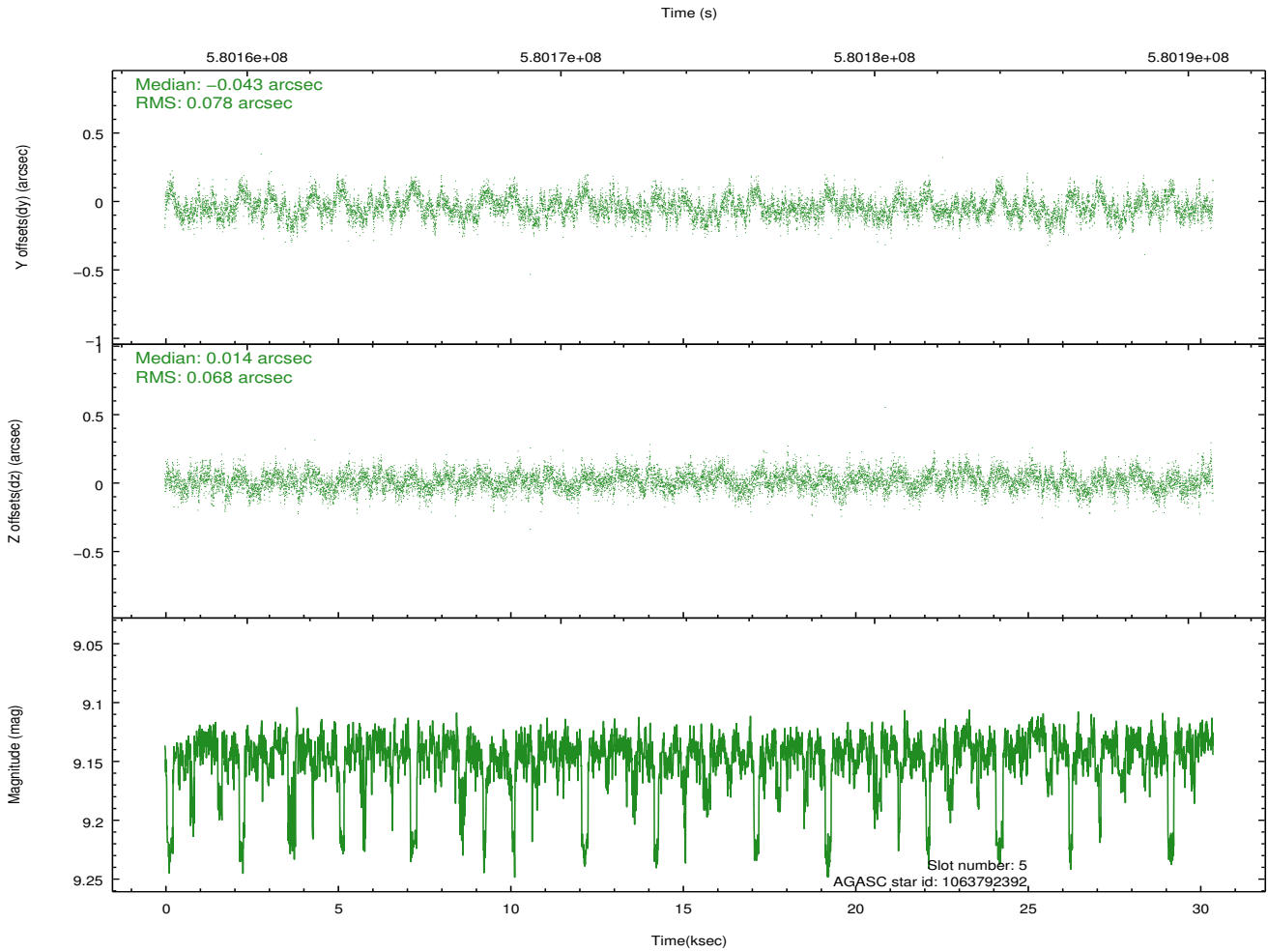
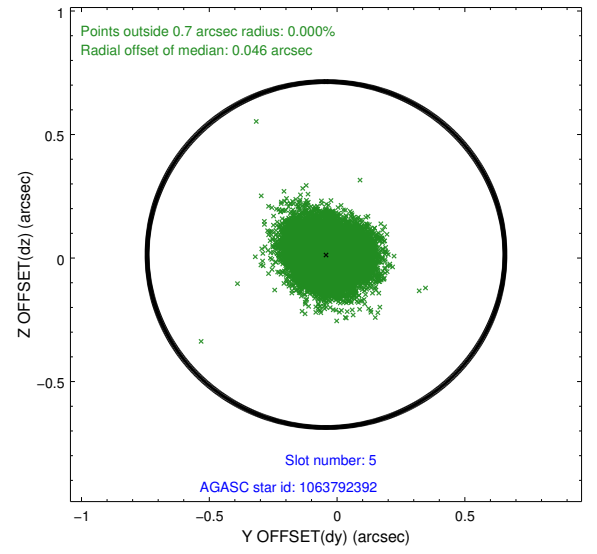
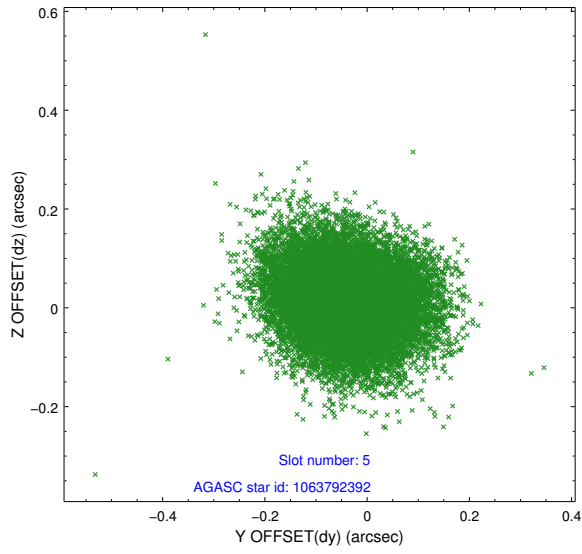
2.4.1 Slot 3



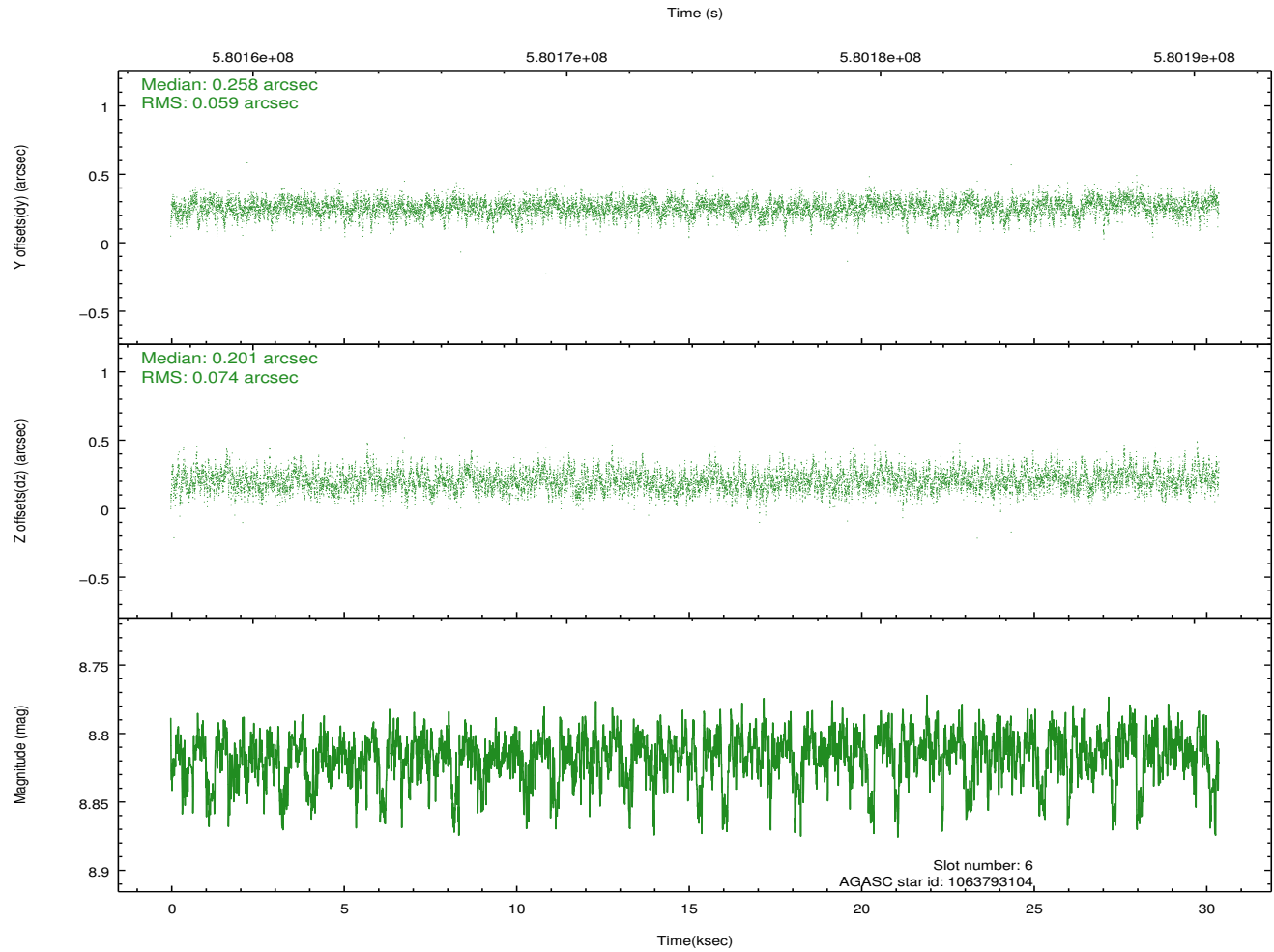
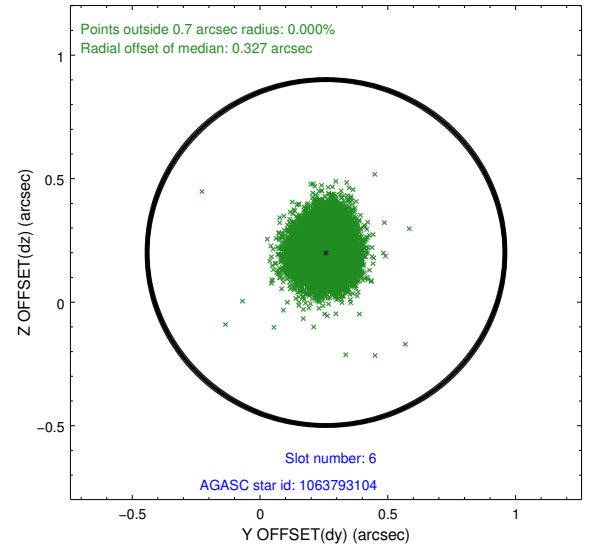
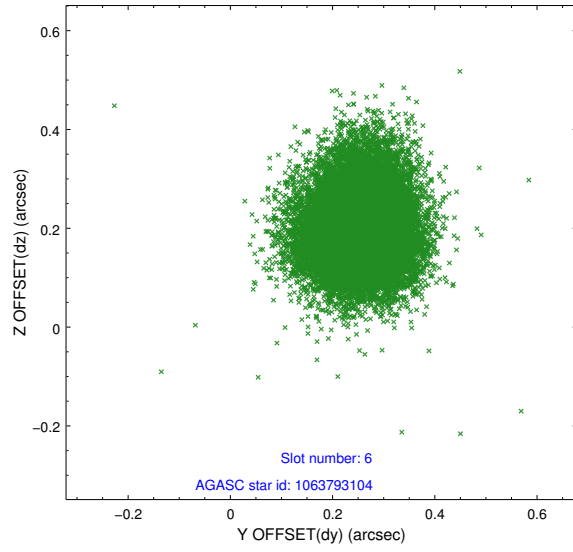
2.4.2 Slot 4



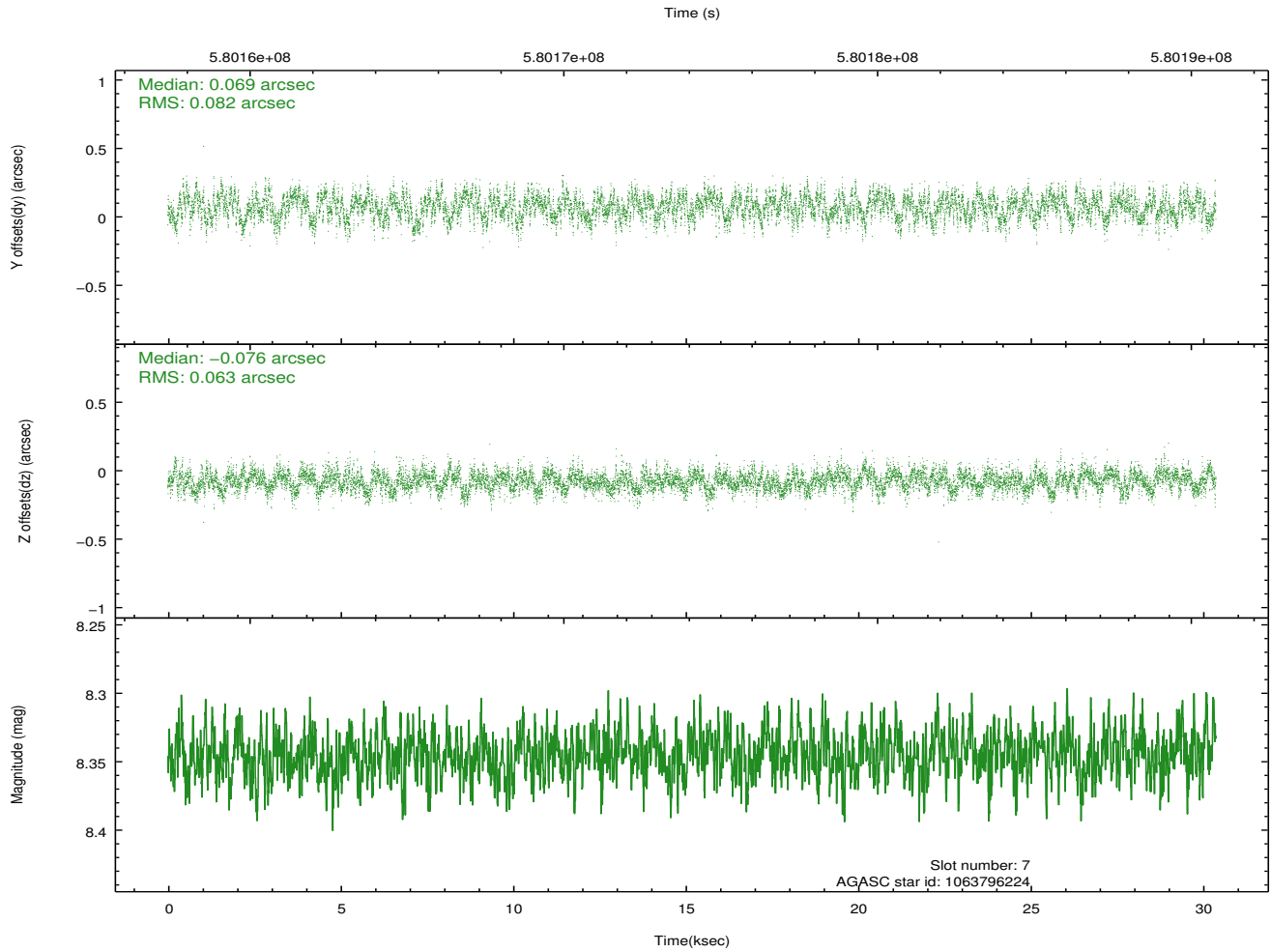
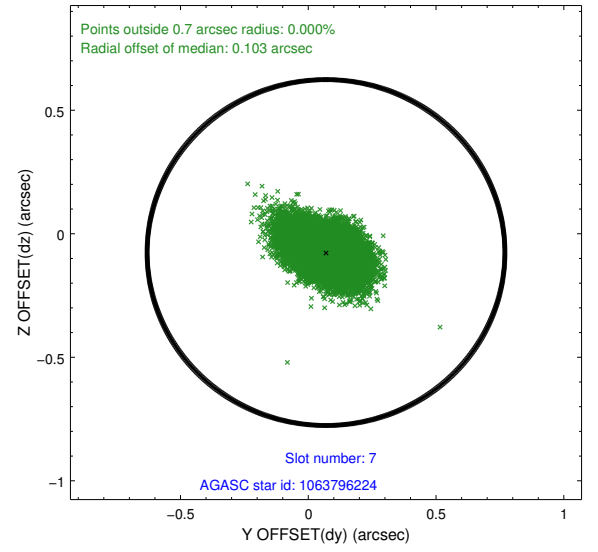
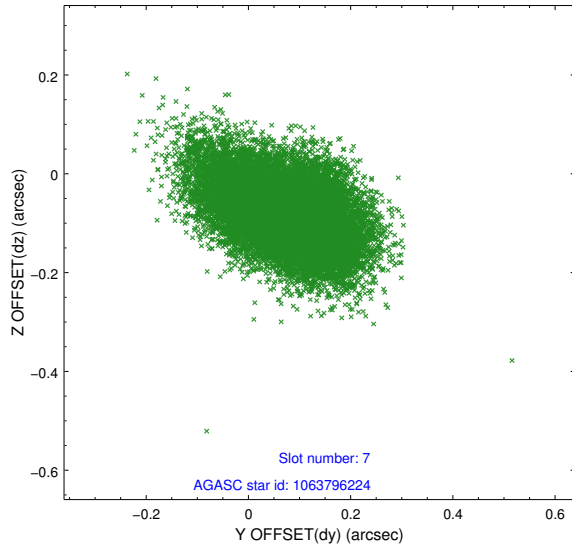
2.4.3 Slot 5



2.4.4 Slot 6

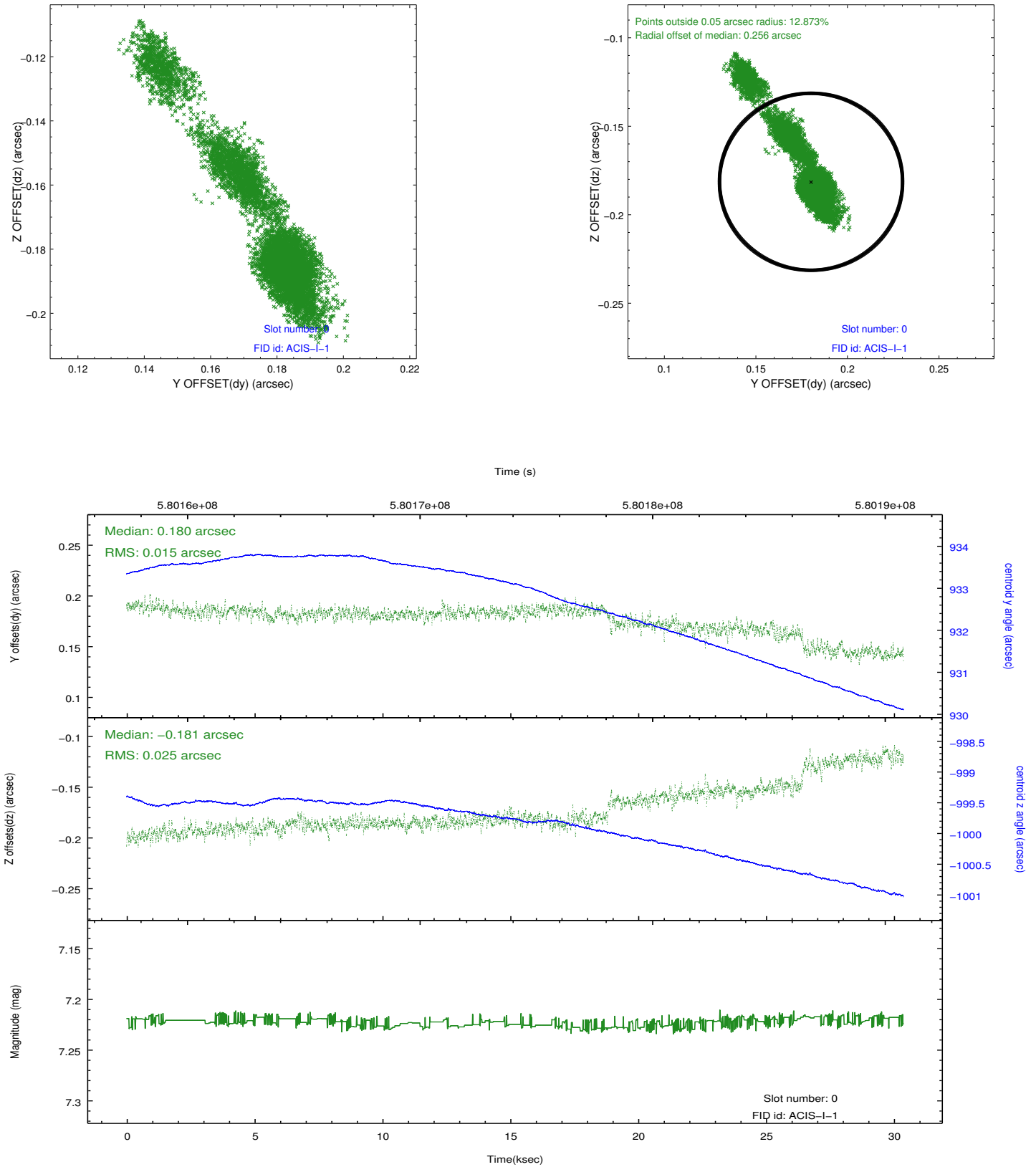


2.4.5 Slot 7

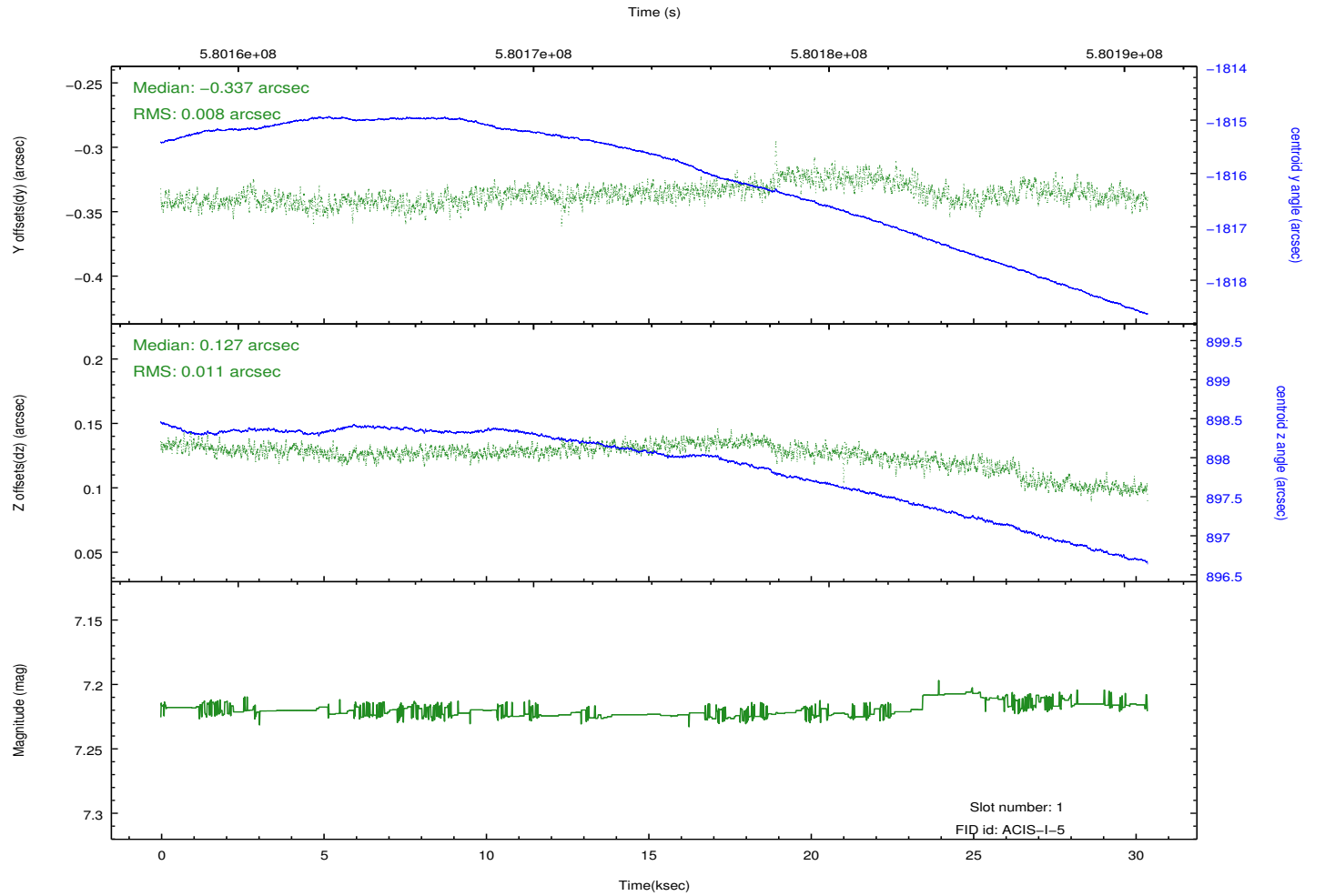
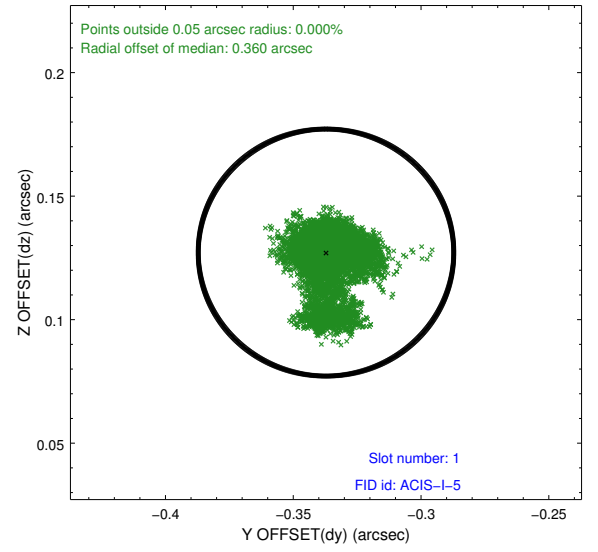
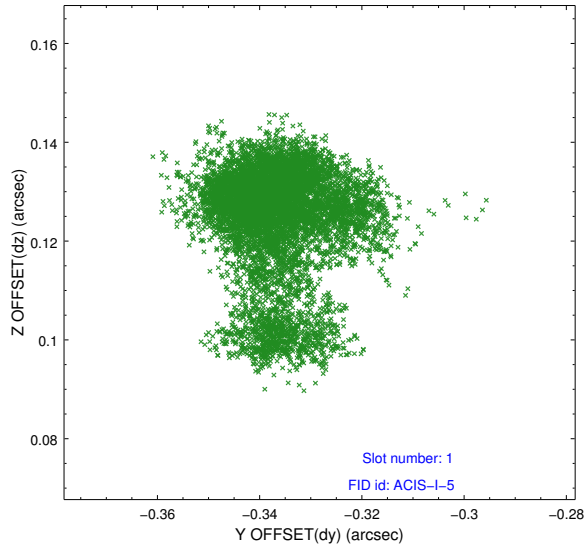


2.5 FID Slots

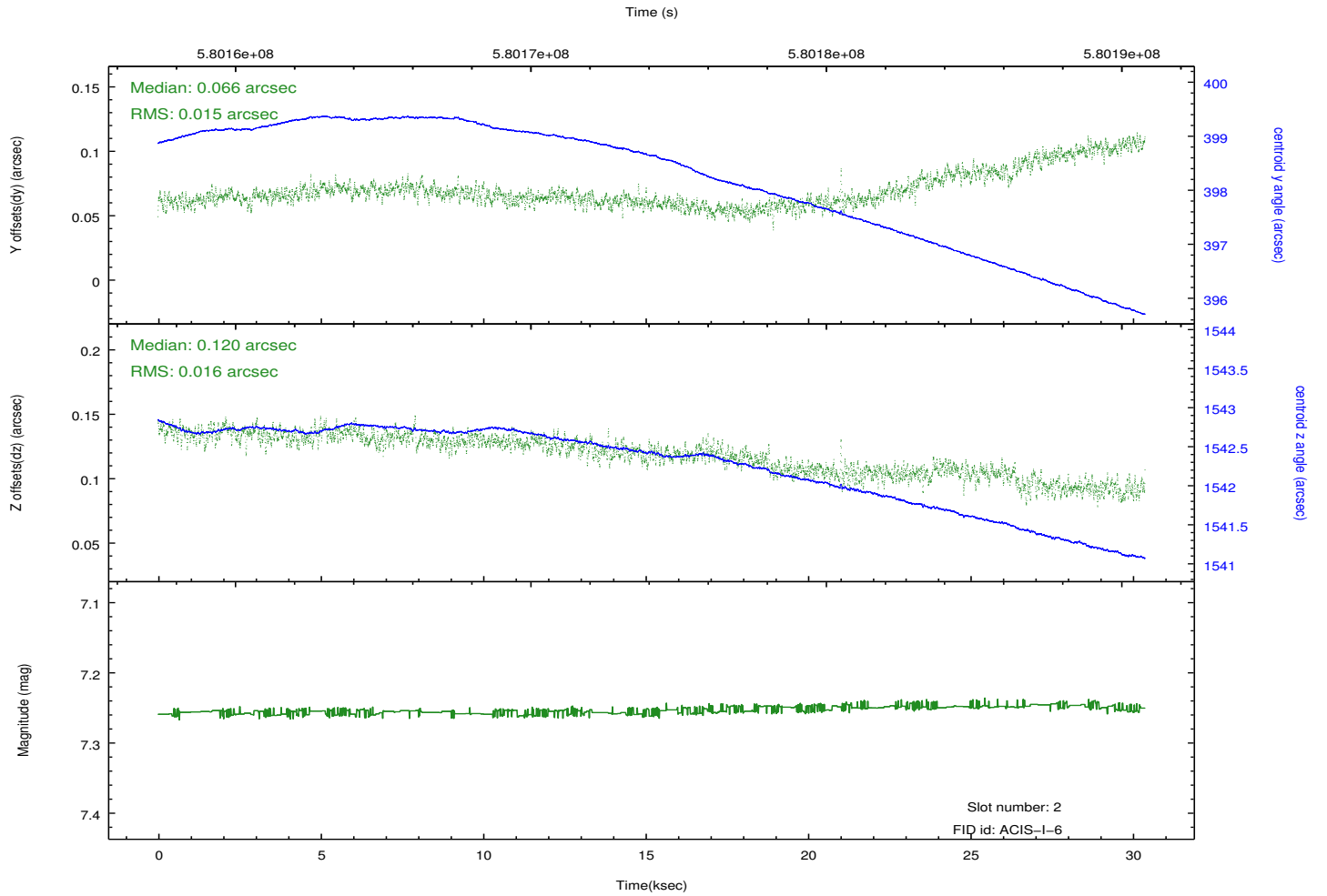
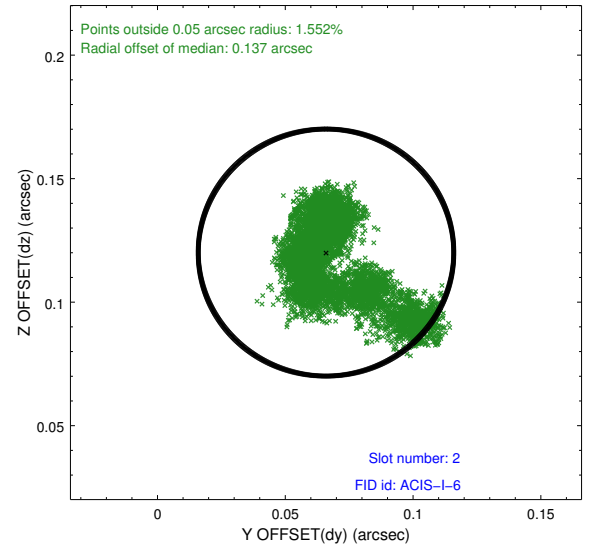
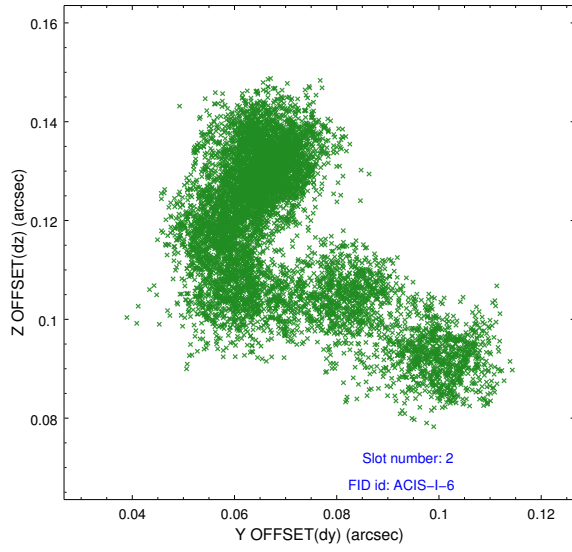
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2016.05.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.07792350781

A.2 Comments