

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 17213 - L2 Version 1
Chandra X-Ray Center

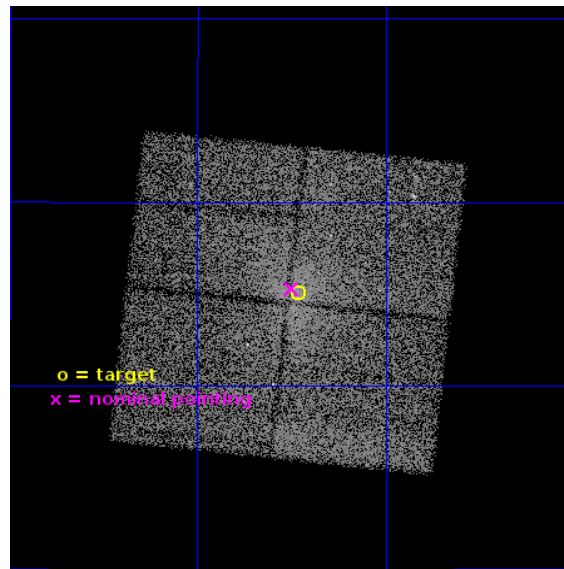
L2 Processing Date : Mar 12 2016

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1 Front

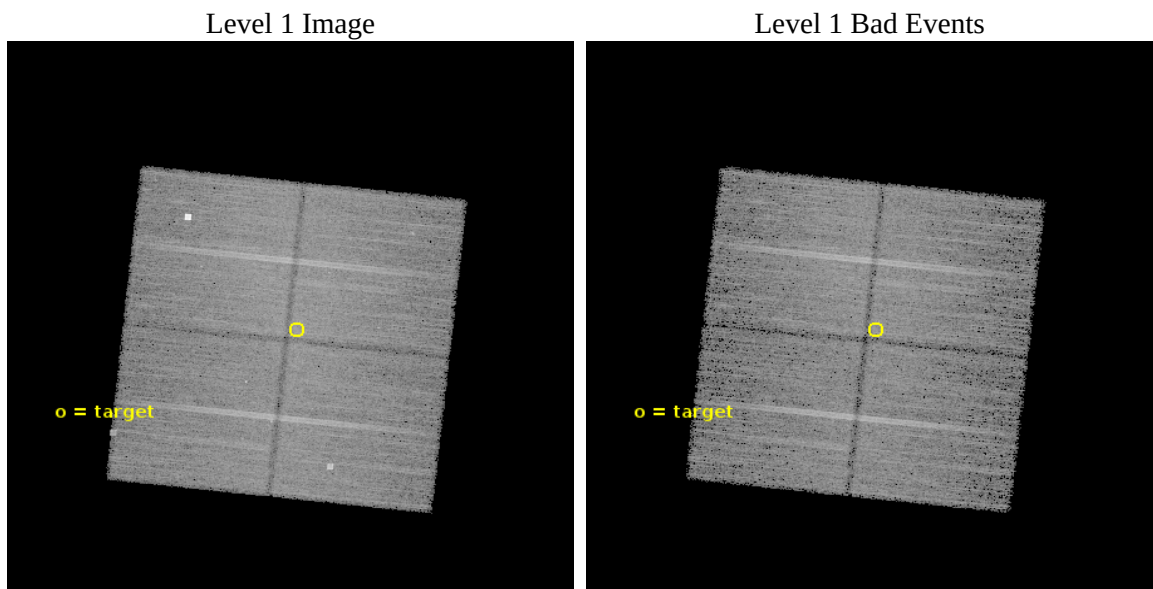
seq_num	801493	Sequence number
obs_id	17213	Observation id
title	A first look at the most powerful radio relic cluster	Proposal tit
observer	Dr Francesco de Gasperin	Principal investigator
object	PSZ1 G108.18-11.53	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.615417	Observer's specified target RA [deg]
dec_targ	48.751667	Observer's specified target Dec [deg]
ra_nom	350.62520911339	Nominal RA [deg]
dec_nom	48.755017591389	Nominal Dec [deg]
roll_nom	6.201319637805	Nominal Roll [deg]
revision	1	Processing version of data
ontime	29775.50022912	Sum of GTIs [s]
livetime	29386.461398222	Livetime [s]
ontime0	29775.50022912	Sum of GTIs [s]
ontime1	29769.218278766	Sum of GTIs [s]
ontime2	29769.218298554	Sum of GTIs [s]
ontime3	29775.50022912	Sum of GTIs [s]
l2events	74618	Number of level 2 events



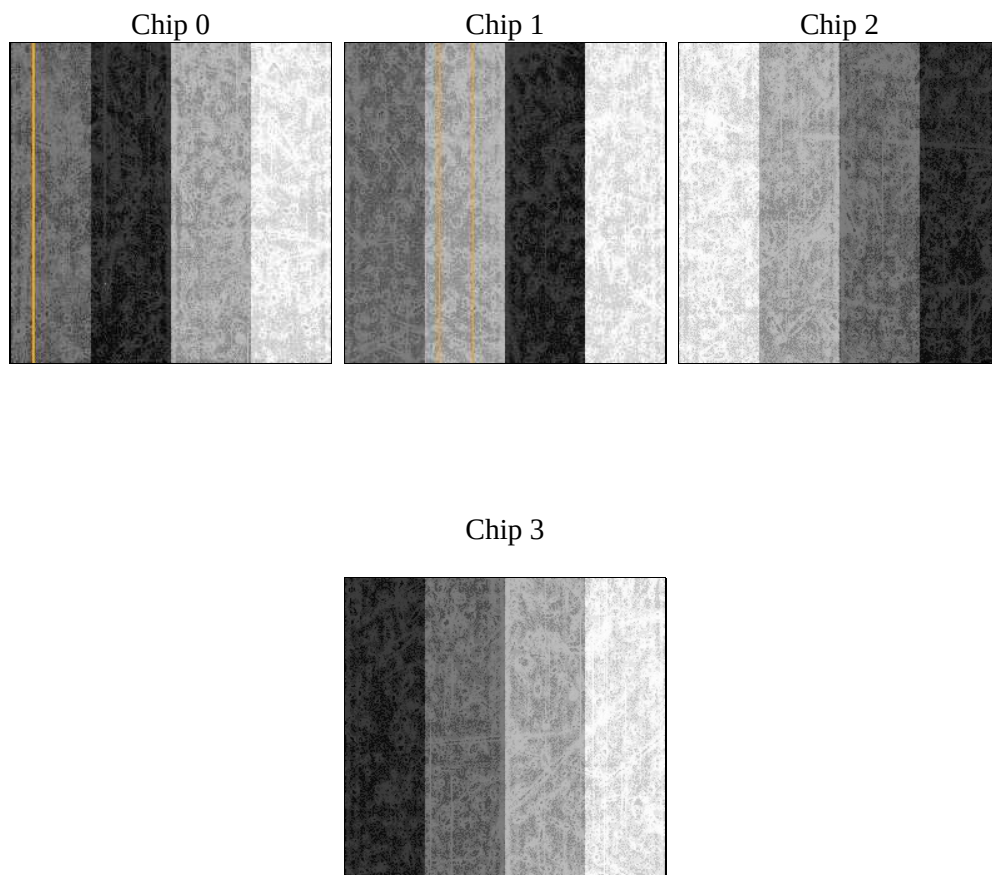
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	29700.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	29775.50022912	Sum of GTIs [s]
caldsver	4.7.0	 	ontime0	29775.50022912	Sum of GTIs [s]
date	2016-03-12T20:19:50	Date and time of file creation	ontime1	29769.218278766	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	29769.218298554	Sum of GTIs [s]
			ontime3	29775.50022912	Sum of GTIs [s]
			l1events	726735	Number of level 1 events

2.1.4 Events

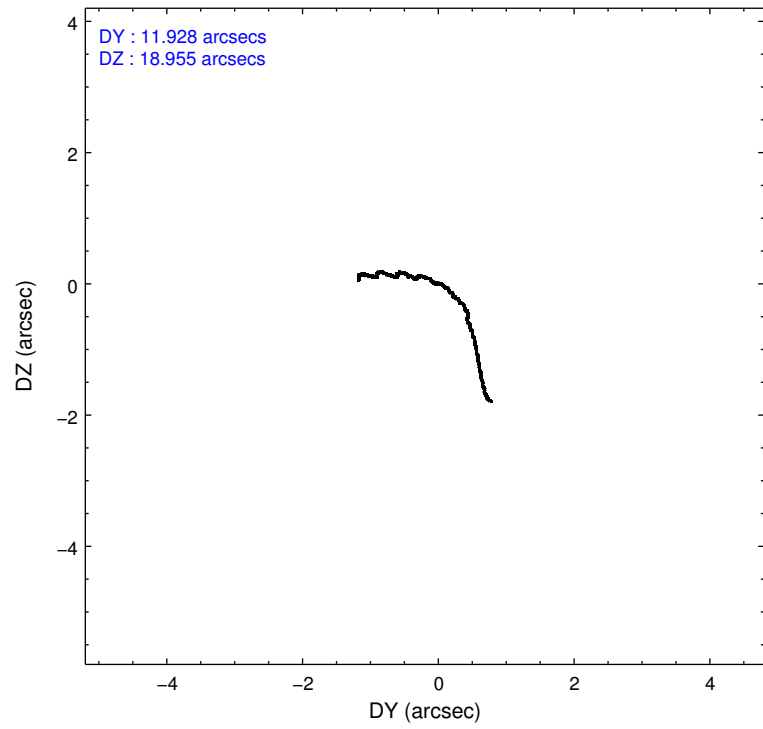
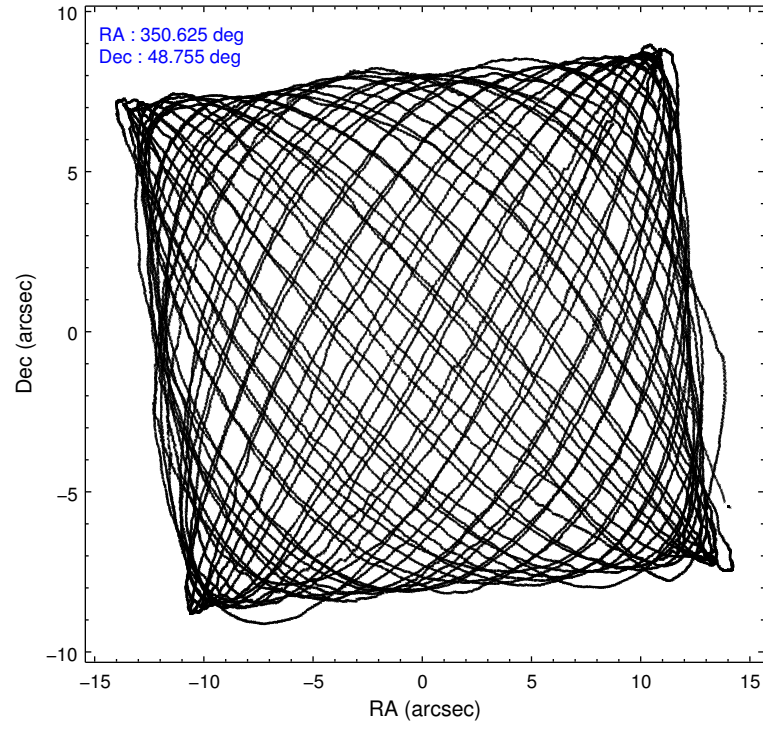
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	167140	175941	199569	184085
rejected events	145463	150153	169104	162254
rejected %	87%	85%	84%	88%

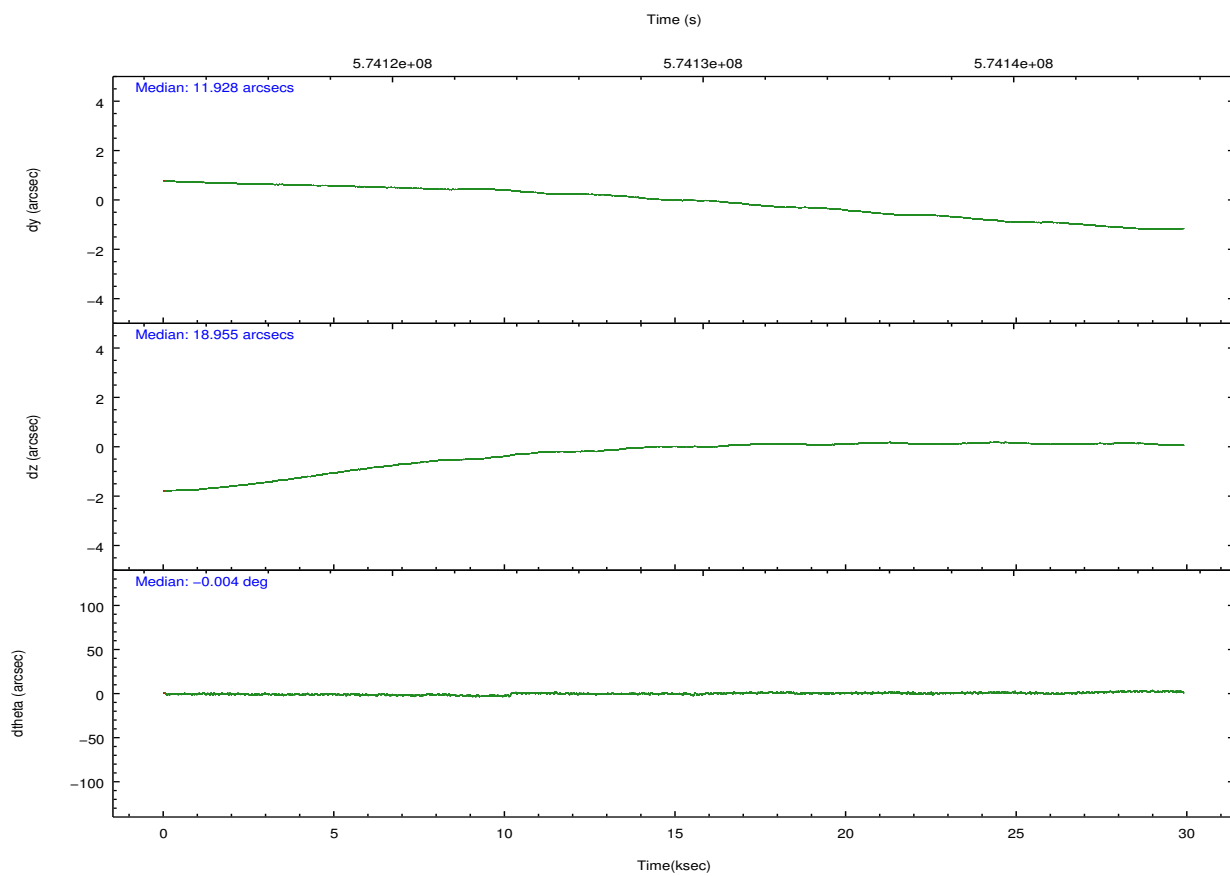
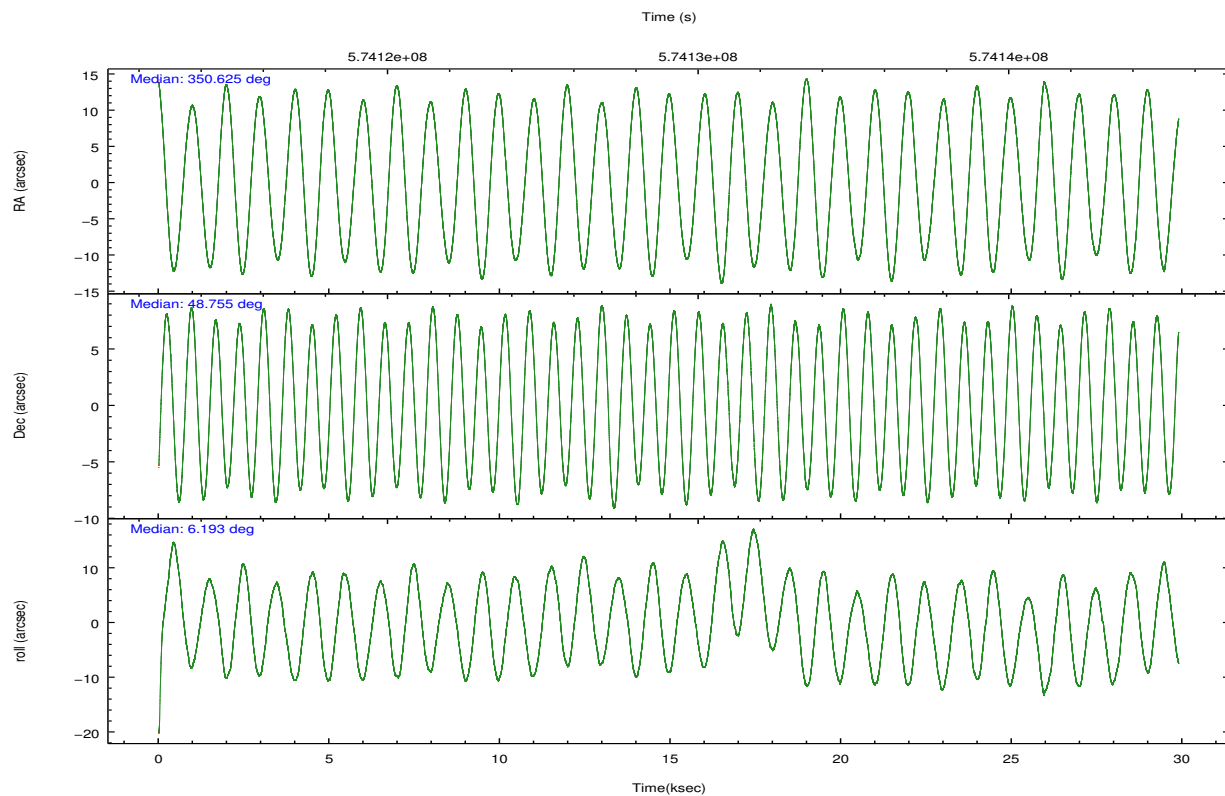
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	7602	10254	8372	8898
	4%	5%	4%	4%
grade 1 events	97	77	118	130
	0%	0%	0%	0%
grade 2 events	5232	6024	14033	4530
	3%	3%	7%	2%
grade 3 events	2069	2200	2019	2136
	1%	1%	1%	1%
grade 4 events	2016	2169	2114	2144
	1%	1%	1%	1%
grade 5 events	7634	8133	7290	8998
	4%	4%	3%	4%
grade 6 events	4758	5144	3928	4123
	2%	2%	1%	2%
grade 7 events	137732	141940	161695	153126
	82%	80%	81%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	350.591529	350.6252091133897	CCD I2 on	Y	Y
[deg] Pointing Dec	48.738628	48.75501759138865	CCD I3 on	Y	Y
[deg] Pointing Roll	6.017957	6.201319637805008	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	O2	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	574114321.184000	574113061.9983799	CCD S5 on	N	N
Observation start date	2016-03-11T20:10:53	2016-03-11T19:51:01	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	574144021.184000	574145153.72521	On-chip summing requested	N	N
Observation end date	2016-03-12T04:25:53	2016-03-12T04:45:53	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



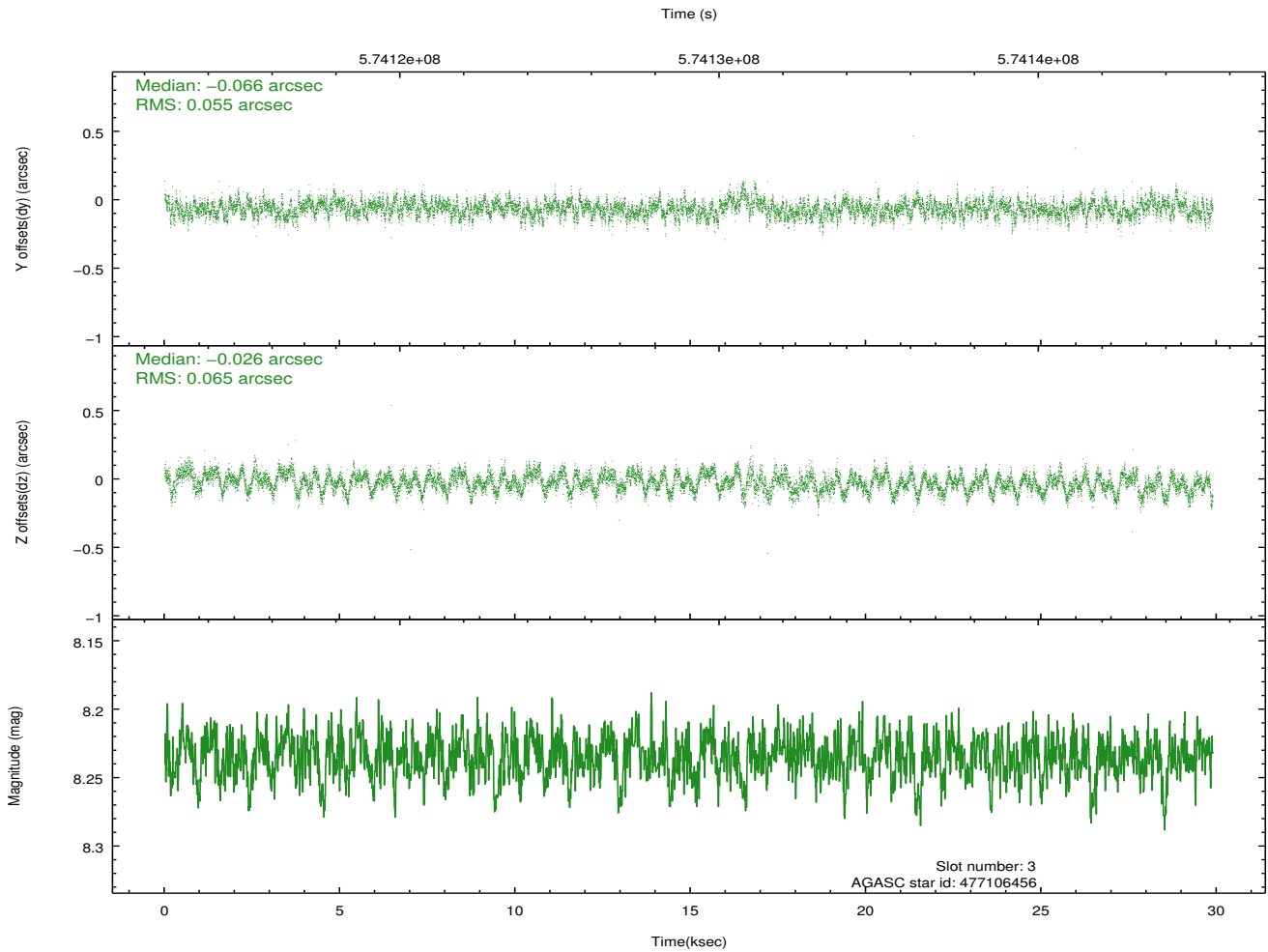
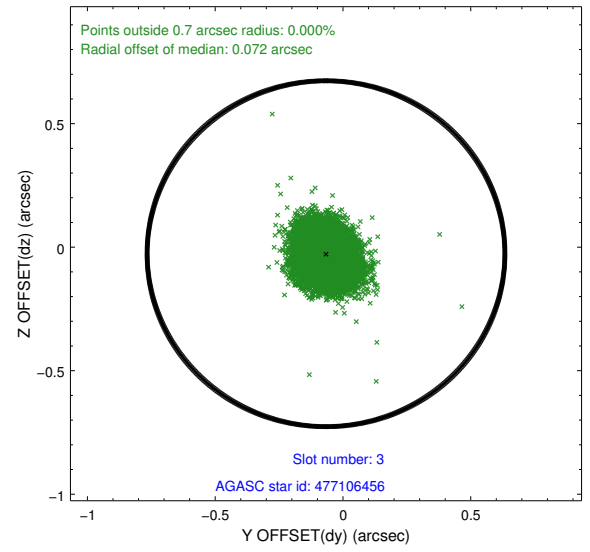
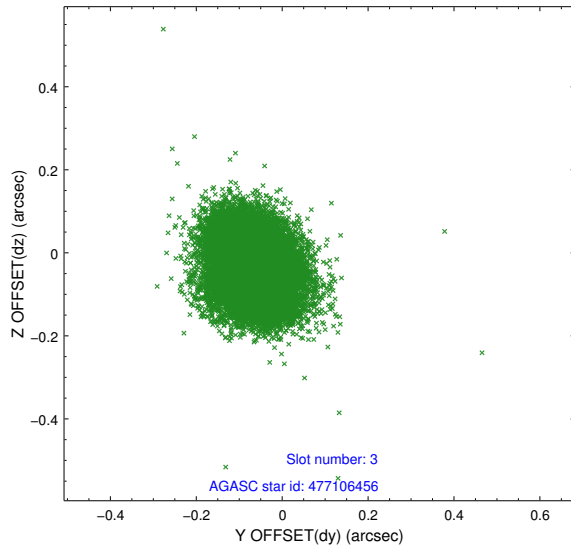


Slot Statistics

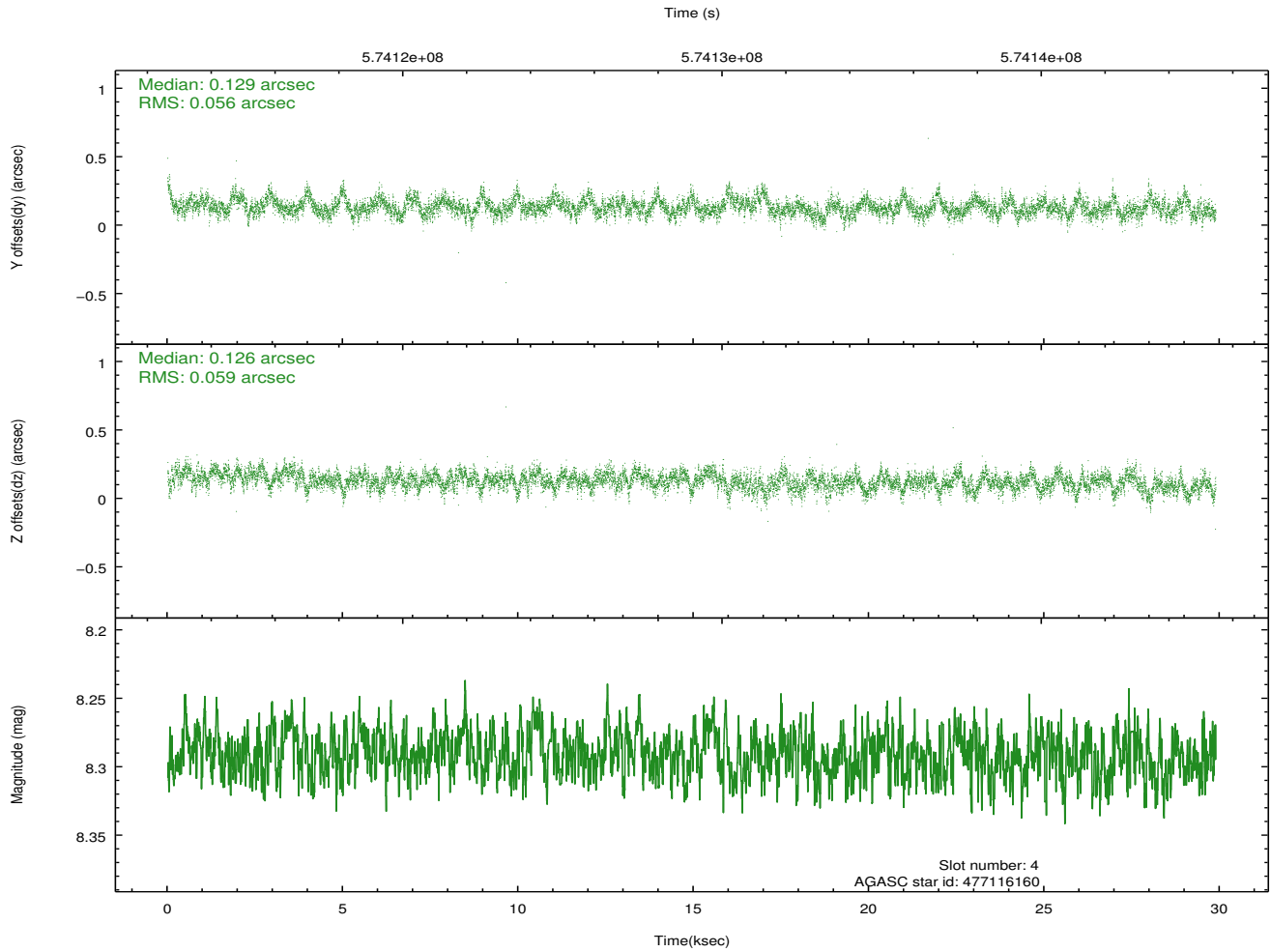
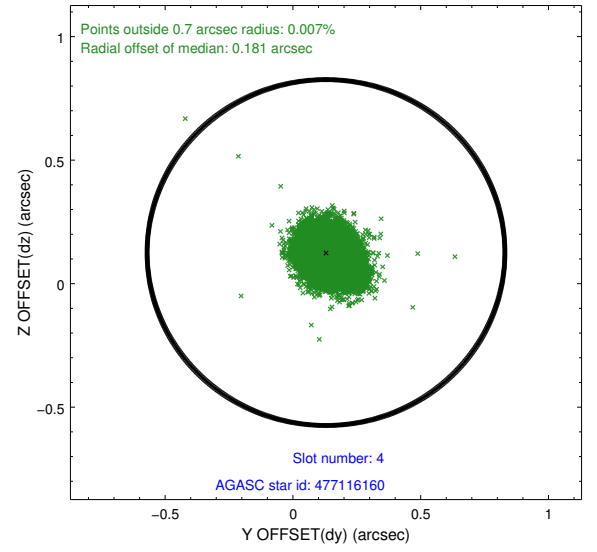
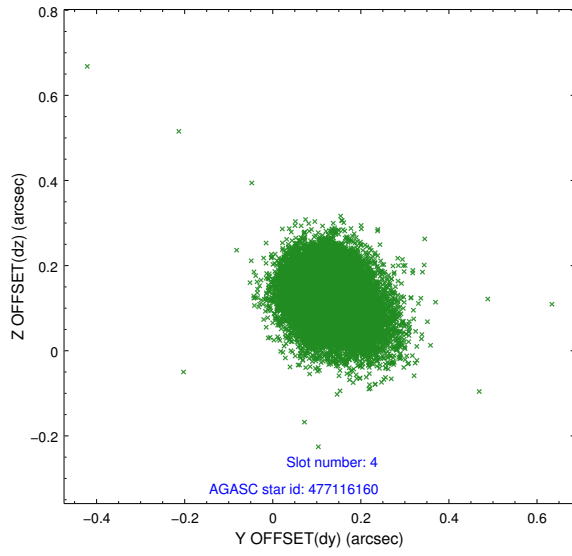
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	7290	-0.030	-0.027	0.041	0.098	0.000000	0.000000	927.71	-842.33
1	FID		ACIS-I-4	7.20	7290	0.330	0.055	0.051	0.080	0.000000	0.000000	2148.08	1057.60
2	FID		ACIS-I-5	7.25	7289	-0.399	0.047	0.025	0.037	0.000000	0.000000	-1820.63	1055.37
3	GUIDE	used	477106456	8.23	14572	-0.066	-0.026	0.090	0.145	351.093863	48.437252	1080.03	-1200.62
4	GUIDE	used	477116160	8.29	14573	0.129	0.126	0.085	0.142	350.574432	48.212496	-238.67	-1879.16
5	GUIDE	used	477632344	8.69	14573	-0.044	0.090	0.084	0.137	349.794475	49.233311	-1675.74	1977.18
6	GUIDE	used	477630216	8.74	14577	-0.173	-0.071	0.078	0.130	349.967143	49.313072	-1240.29	2216.31
7	GUIDE	used	477632728	9.12	14571	0.157	-0.111	0.134	0.222	351.351500	49.321571	1994.21	1909.31

2.4 Star Slots

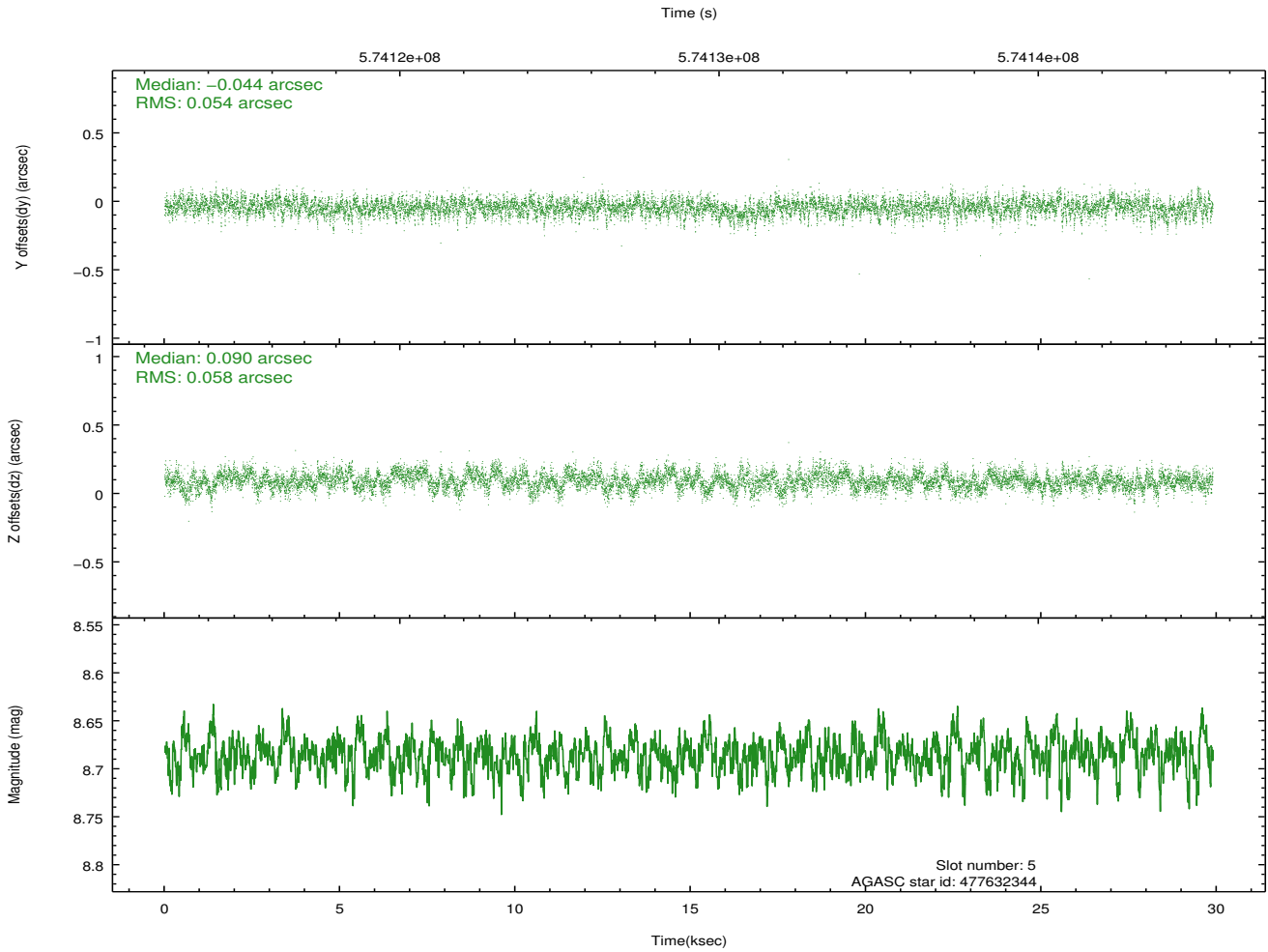
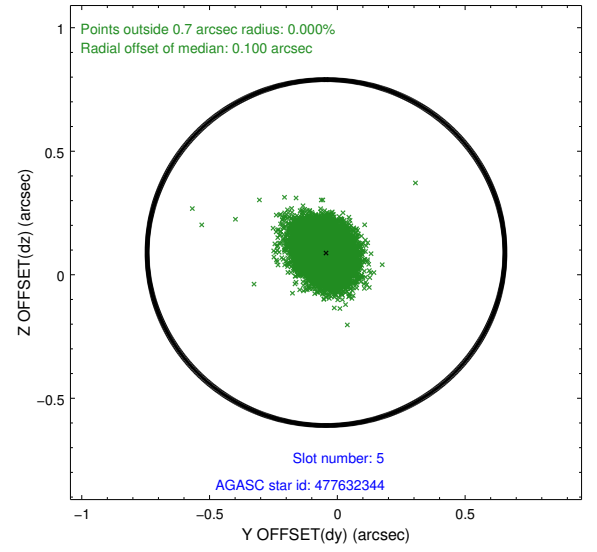
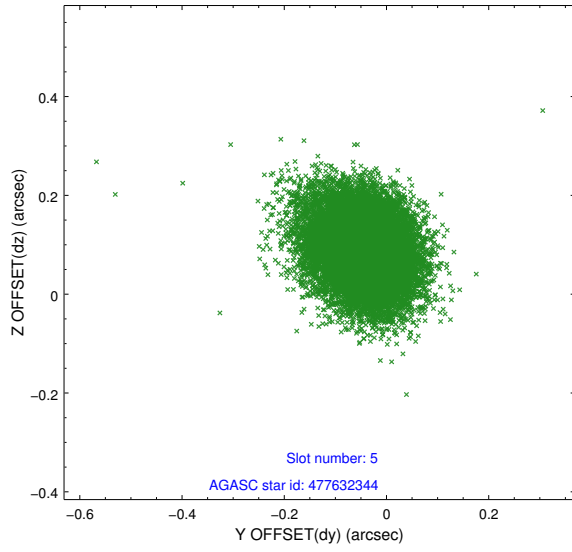
2.4.1 Slot 3



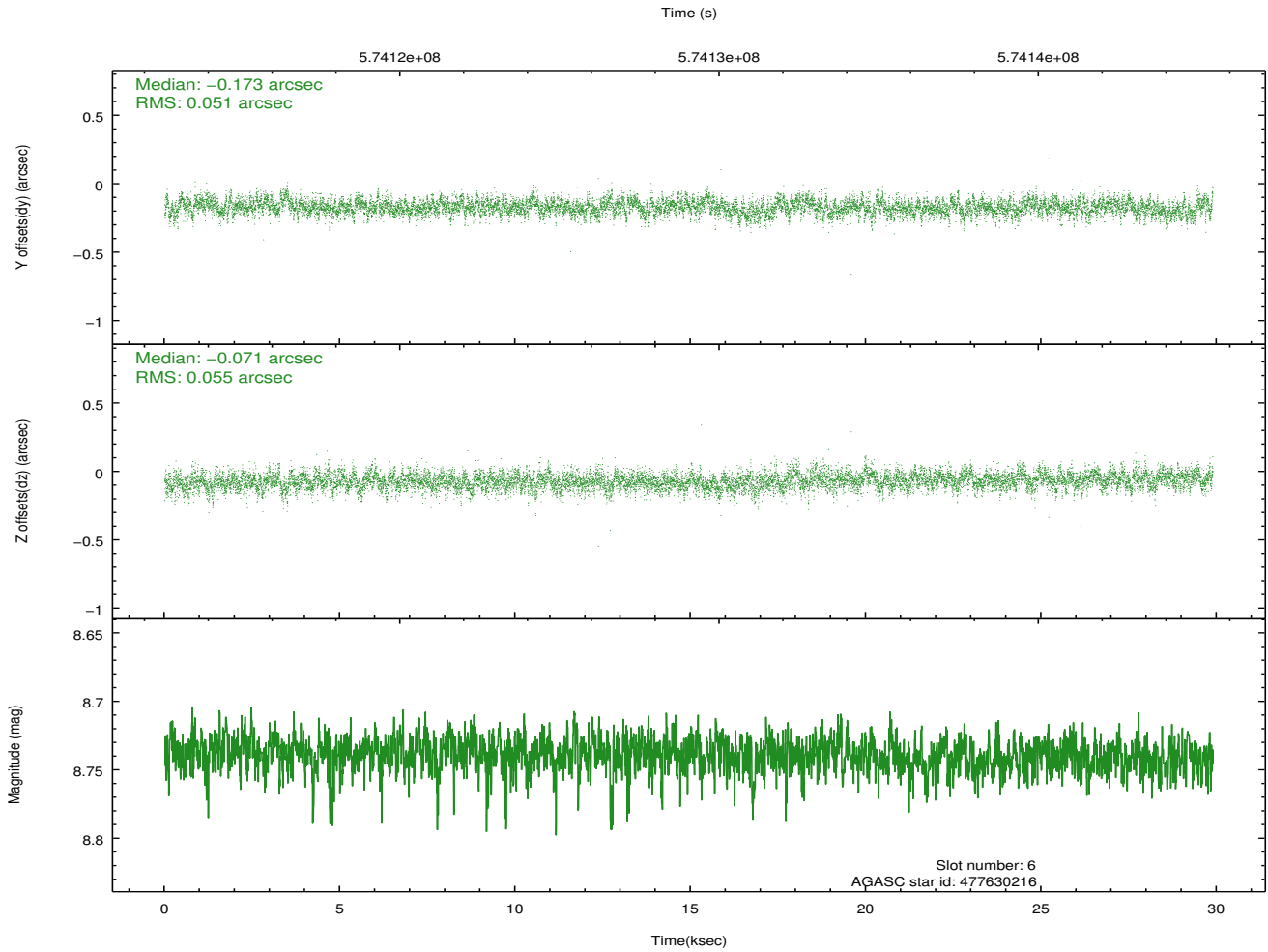
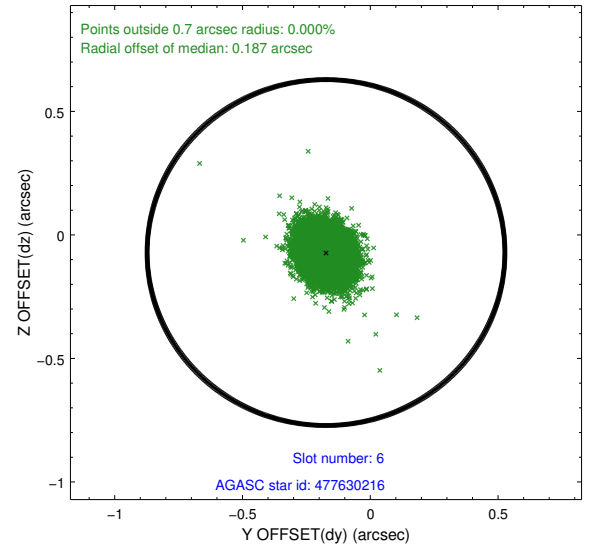
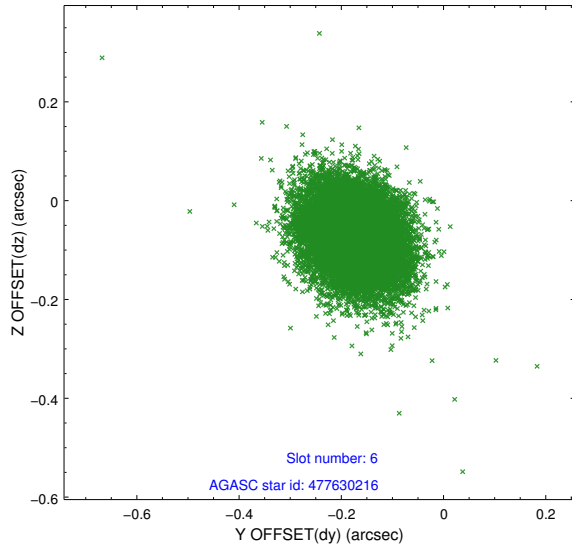
2.4.2 Slot 4



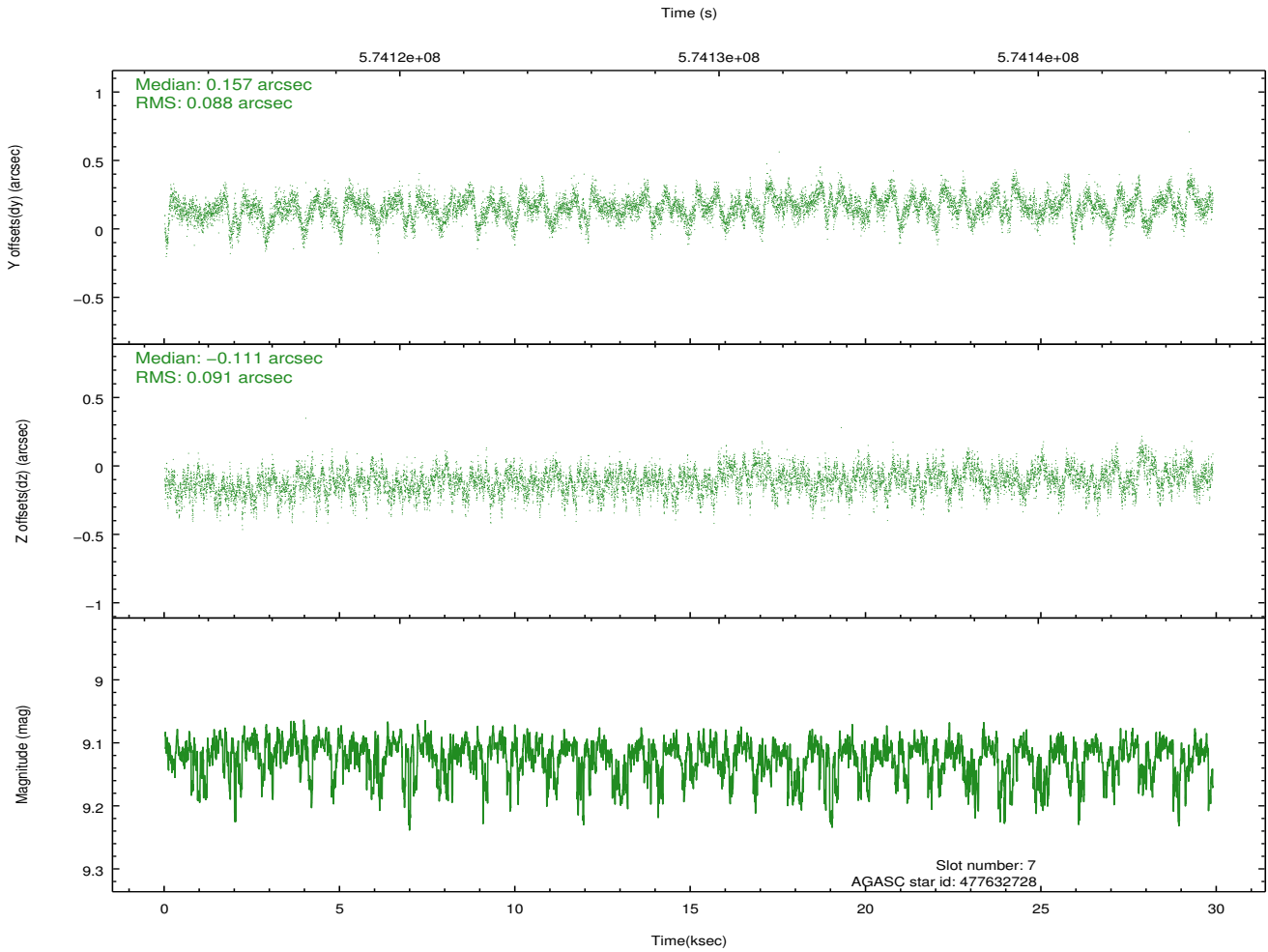
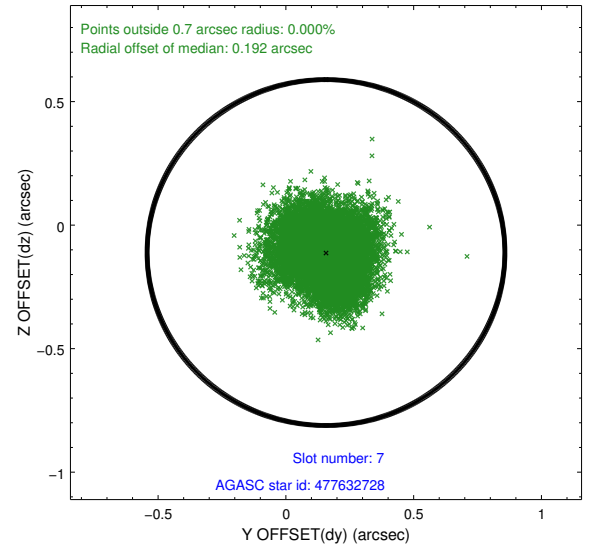
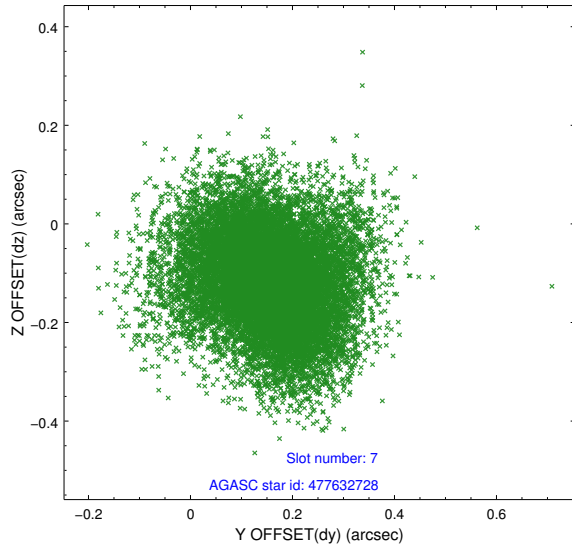
2.4.3 Slot 5



2.4.4 Slot 6

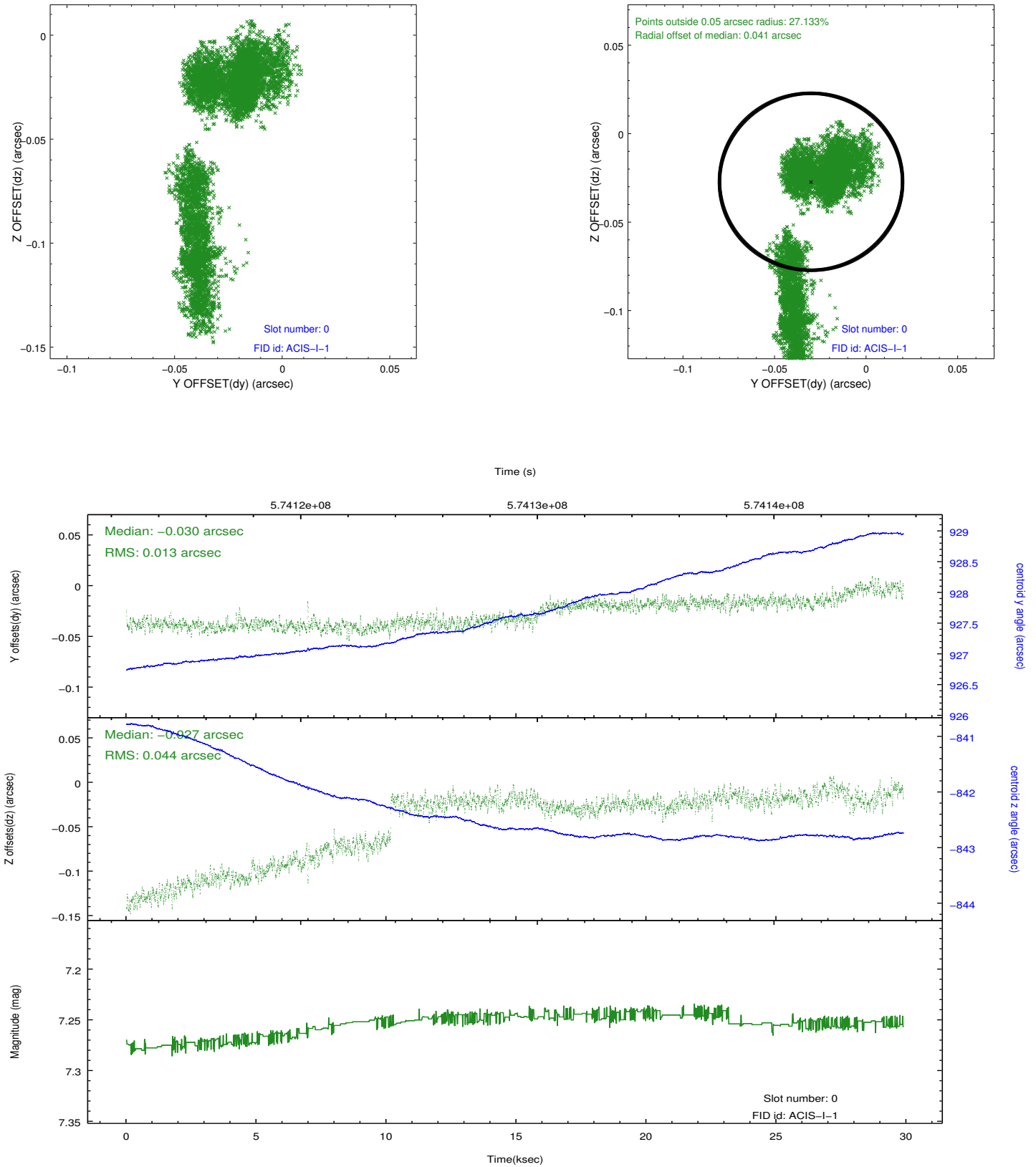


2.4.5 Slot 7

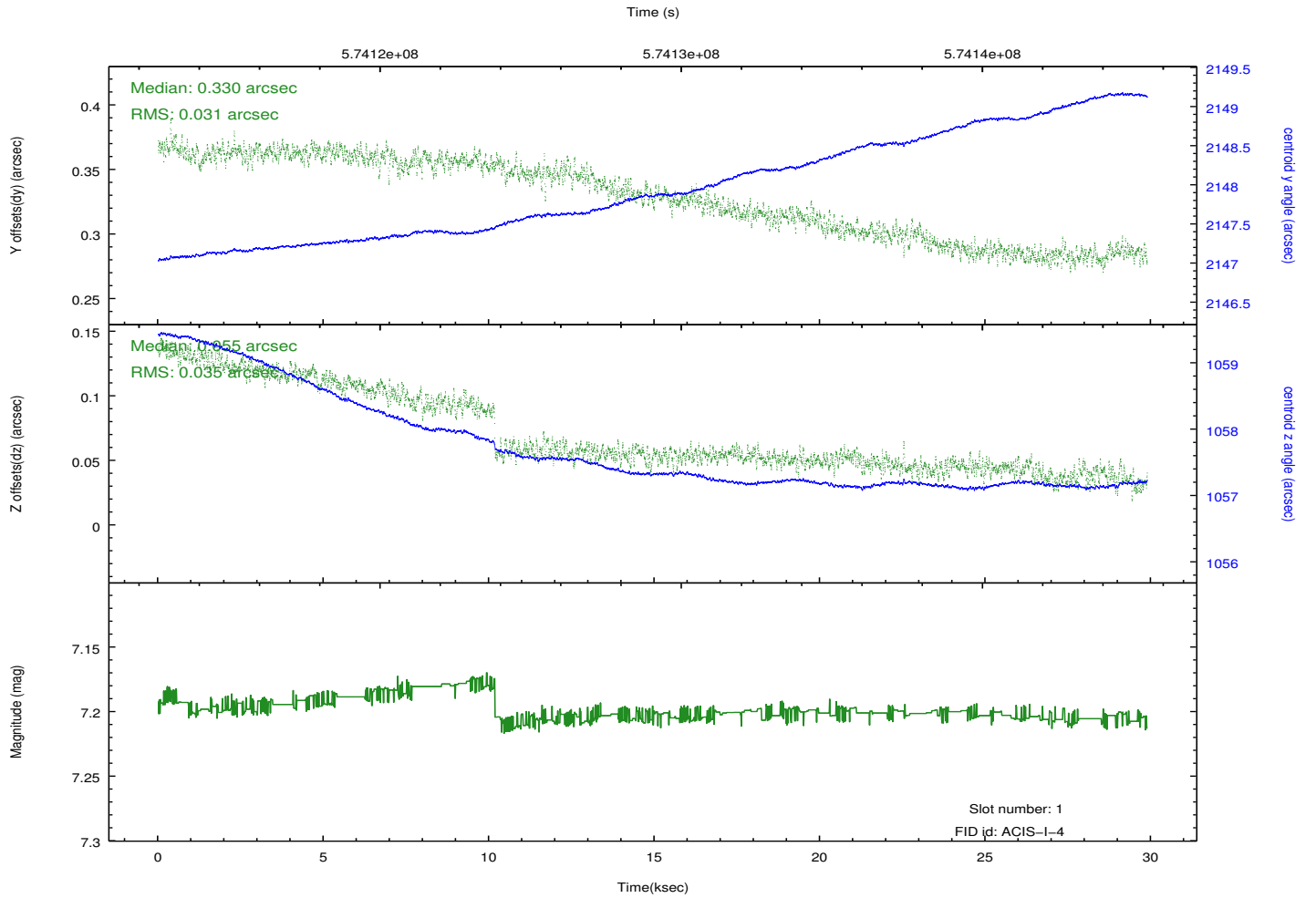
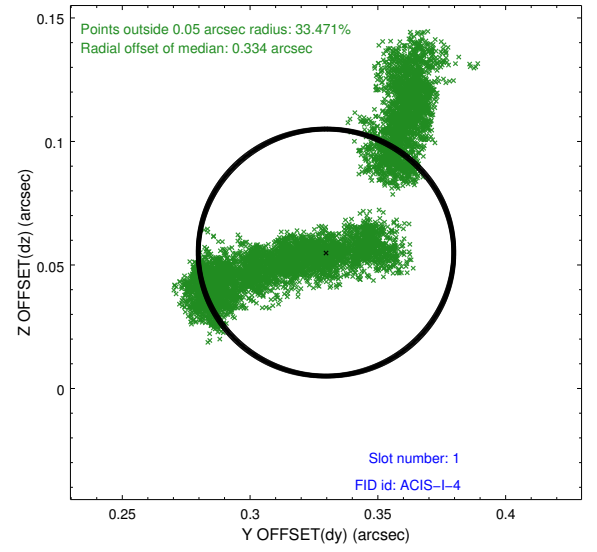
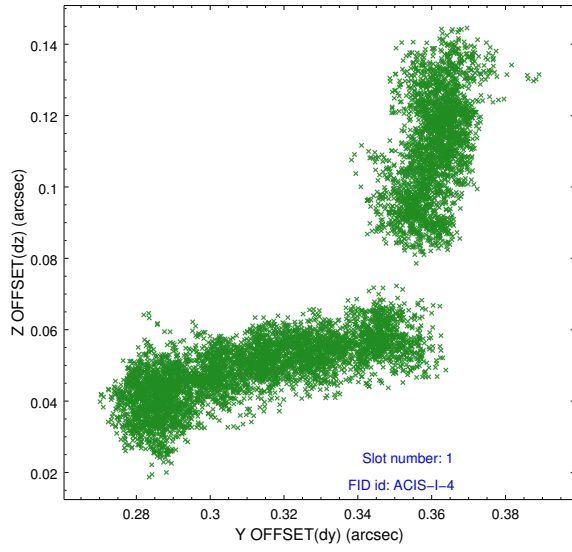


2.5 FID Slots

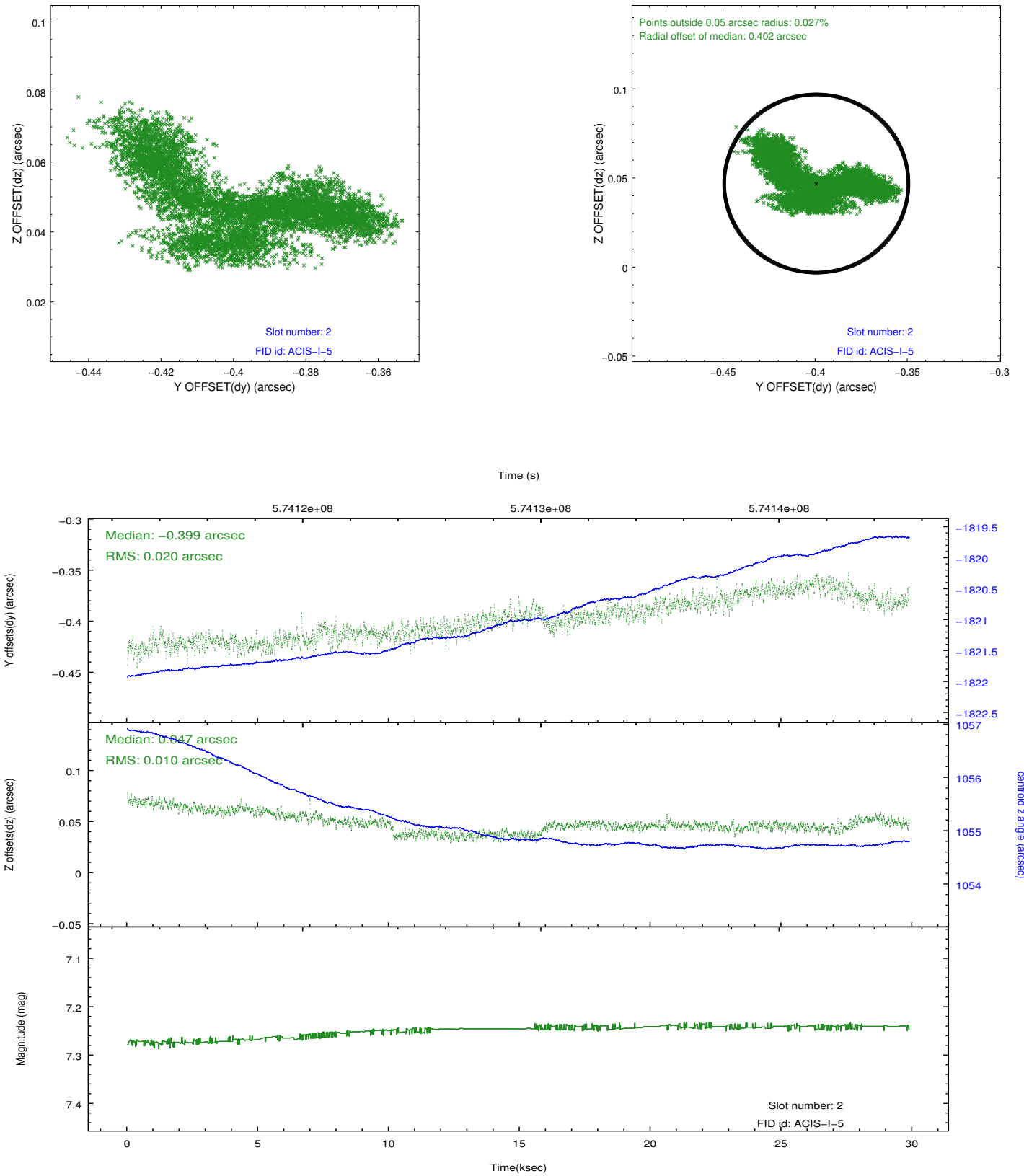
2.5.1 Slot 0



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)	2016.03.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.77550022912

A.2 Comments

Optional chips S2 and S3 were dropped.