

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20854 - L2 Version 1
Chandra X-Ray Center

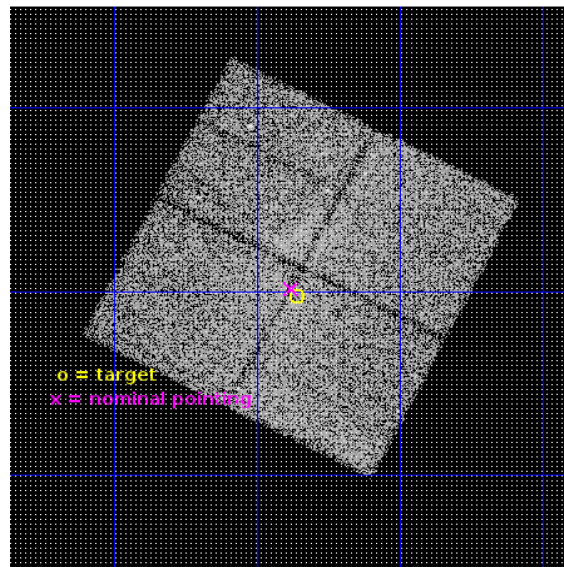
L2 Processing Date : Nov 22 2017

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1 Front

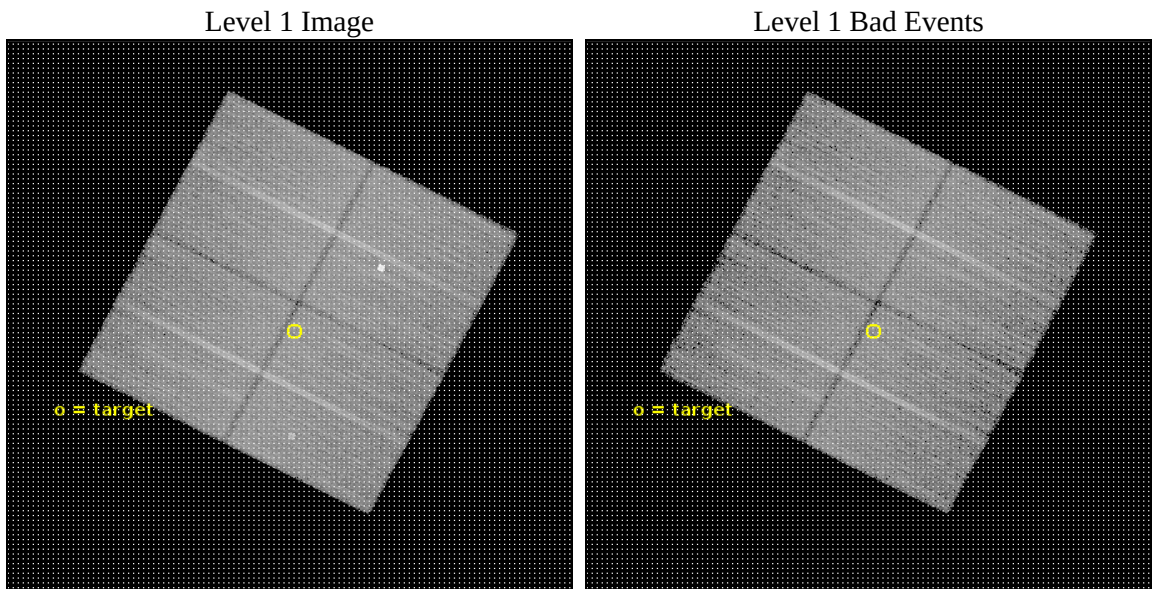
seq_num	801659	Sequence number
obs_id	20854	Observation id
title	A Violent merger in the cluster PLCKESZ G200.9-28.2: Relic formation caught in action?	Proposal title
observer	Daniel Wik	Principal investigator
object	PLCKESZ G200.9-28.2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	72.589954	Observer's specified target RA [deg]
dec_targ	-3.004375	Observer's specified target Dec [deg]
ra_nom	72.594805983143	Nominal RA [deg]
dec_nom	-2.99761905551	Nominal Dec [deg]
roll_nom	27.208941979355	Nominal Roll [deg]
revision	1	Processing version of data
ontime	31077.459158778	Sum of GTIs [s]
livetime	30671.409275976	Livetime [s]
ontime0	31077.45916903	Sum of GTIs [s]
ontime1	31077.459158778	Sum of GTIs [s]
ontime2	31077.459178925	Sum of GTIs [s]
ontime3	31077.45916903	Sum of GTIs [s]
l2events	83837	Number of level 2 events



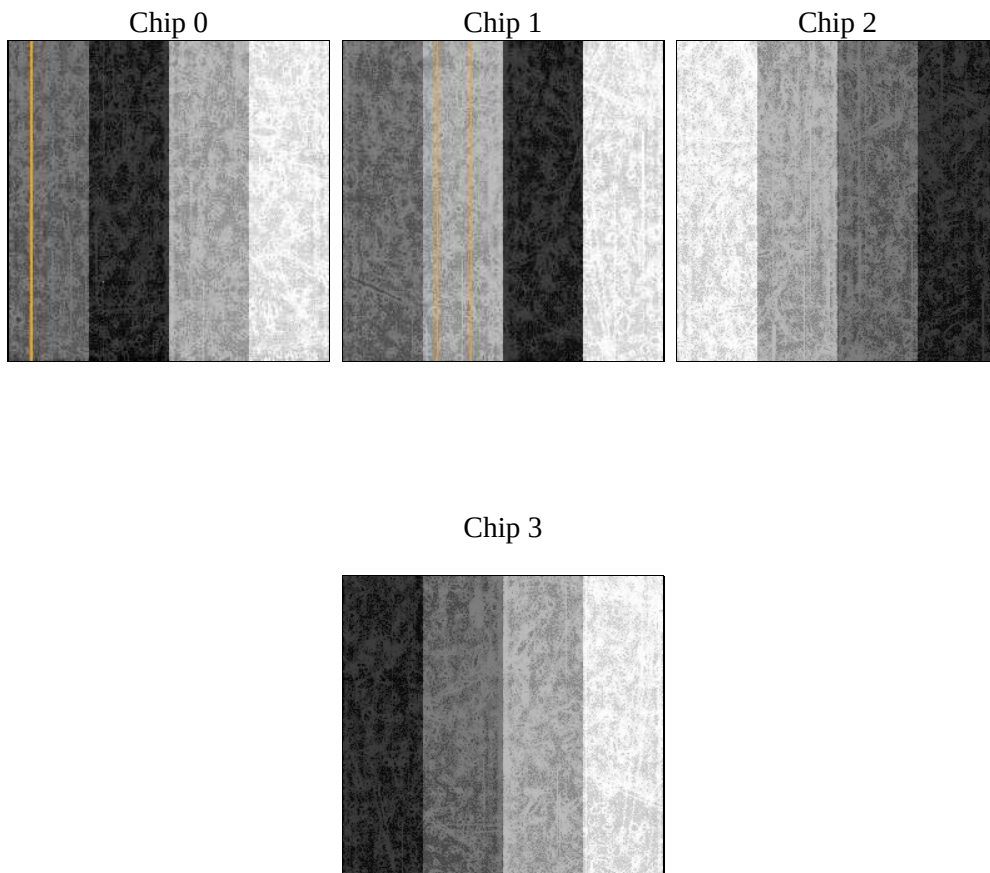
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	31000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	31077.459158778	Sum of GTIs [s]
caldsver	4.7.6	 	ontime0	31077.45916903	Sum of GTIs [s]
date	2017-11-22T16:33:57	Date and time of file creation	ontime1	31077.459158778	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	31077.459178925	Sum of GTIs [s]
			ontime3	31077.45916903	Sum of GTIs [s]
			l1events	880346	Number of level 1 events

2.1.4 Events

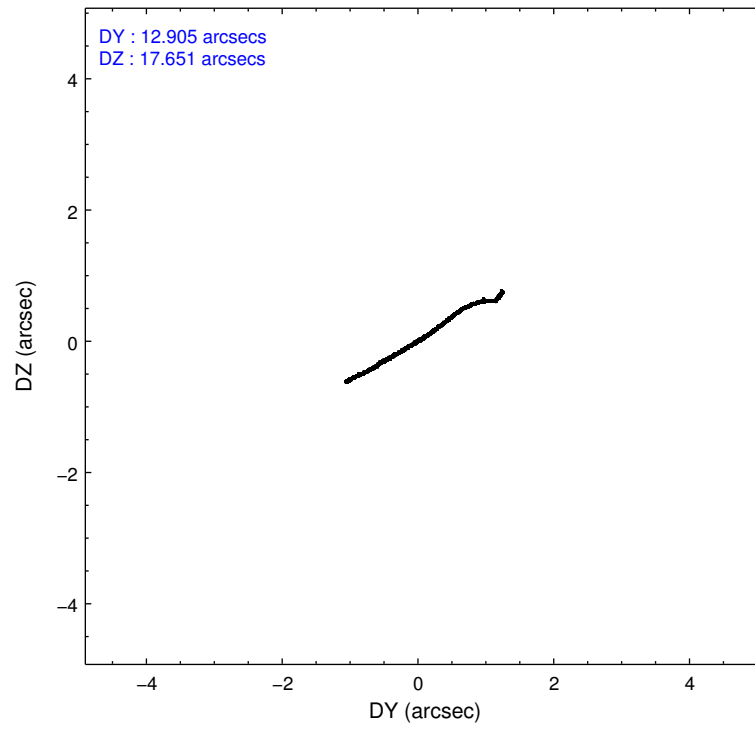
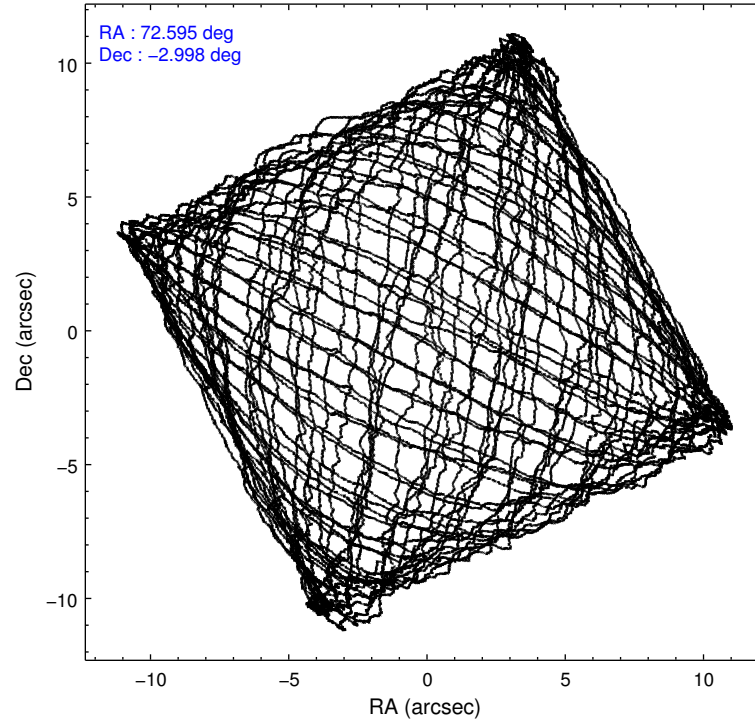
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	204543	212118	231194	232491
rejected events	179367	184291	206591	200627
rejected %	87%	86%	89%	86%

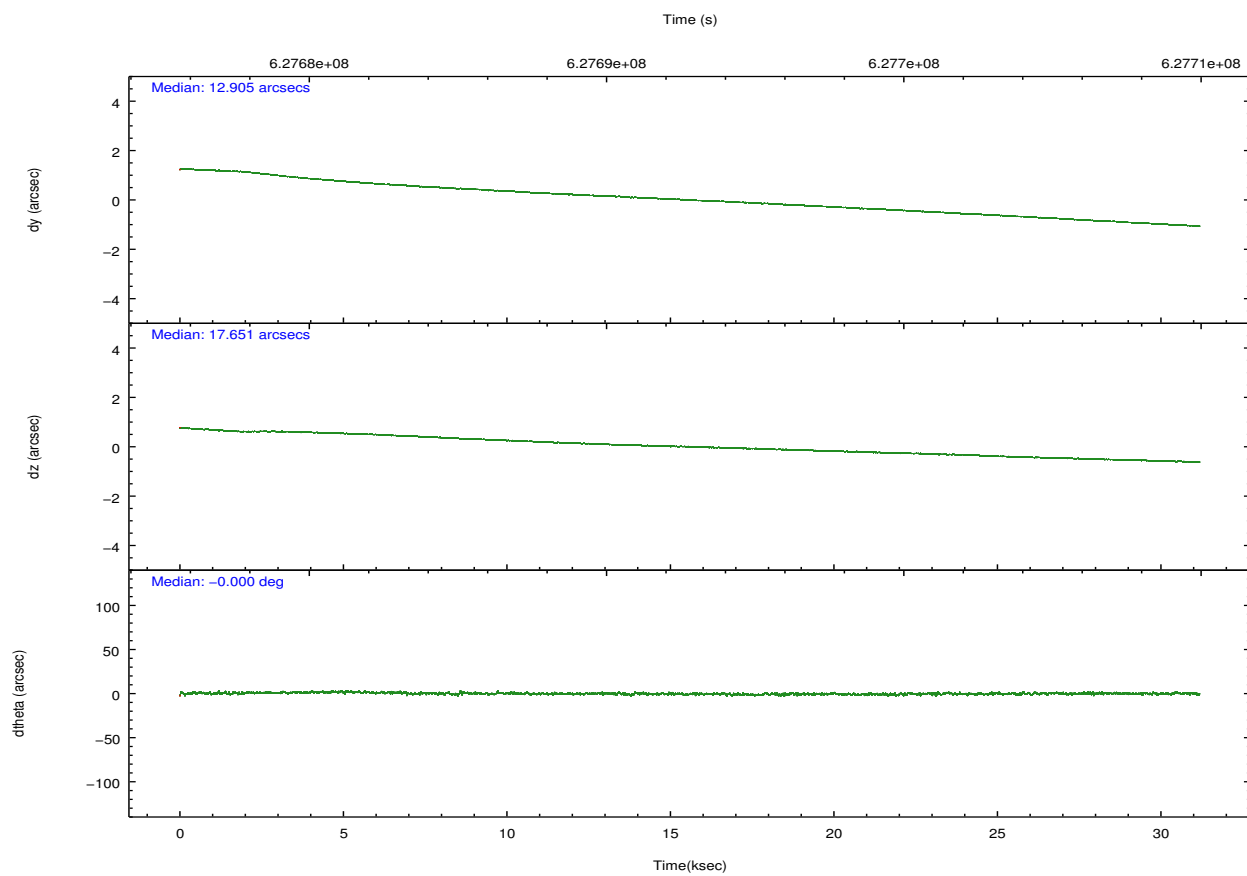
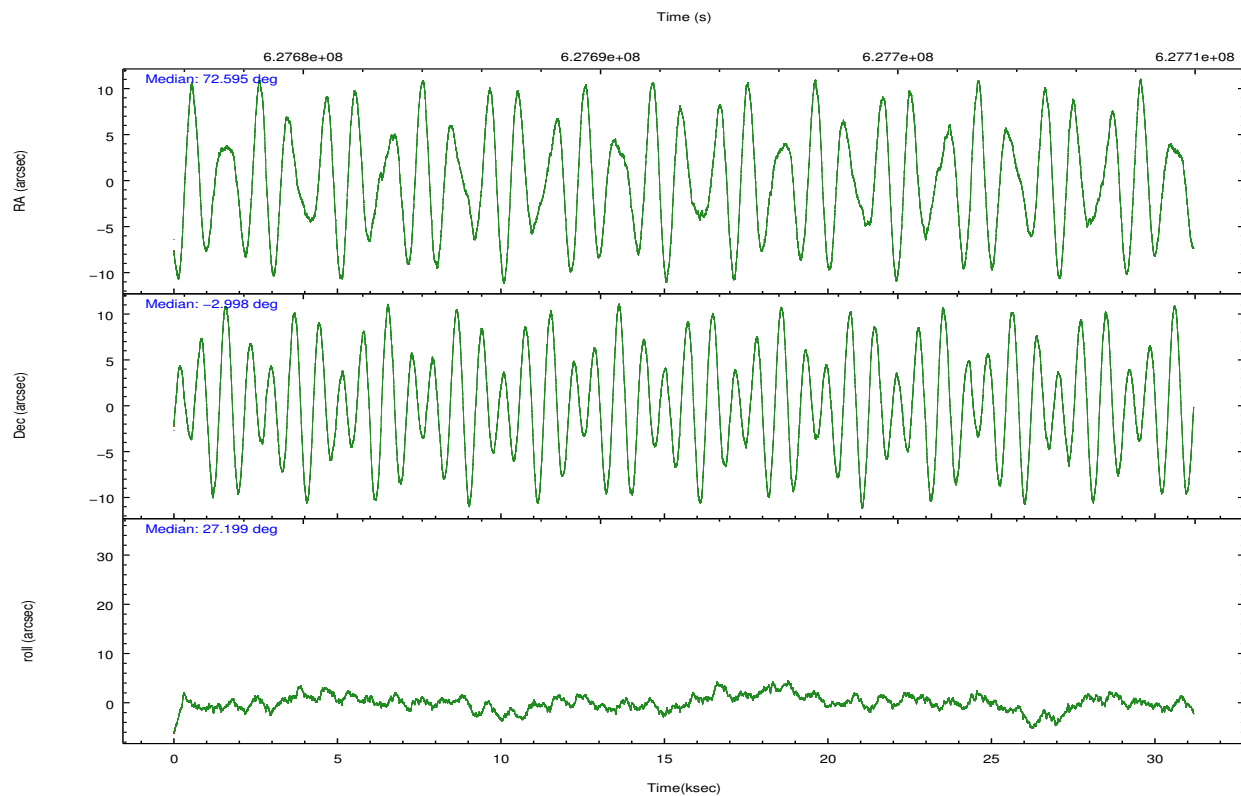
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	8822	9944	9340	8191
	4%	4%	4%	3%
grade 1 events	114	110	137	122
	0%	0%	0%	0%
grade 2 events	6086	6655	5831	13756
	2%	3%	2%	5%
grade 3 events	2541	2496	2373	2520
	1%	1%	1%	1%
grade 4 events	2389	2389	2384	2398
	1%	1%	1%	1%
grade 5 events	8980	9498	8622	10459
	4%	4%	3%	4%
grade 6 events	5347	6345	4677	5005
	2%	2%	2%	2%
grade 7 events	170264	174681	197830	190040
	83%	82%	85%	81%

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	72.579935	72.59480598314343	CCD I2 on	Y	Y
[deg] Pointing Dec	-3.020878	-2.997619055509973	CCD I3 on	Y	Y
[deg] Pointing Roll	26.999476	27.20894197935514	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	N	N
[mm] SIM translation stage pos	-239.442463	-239.4407604828604	CCD S3 on	O1	N
[mm] SIM translation stage offset	5.85	5.848307479930696	CCD S4 on	N	N
[s] Observation start time (MET)	627677377.184000	627676288.68537	CCD S5 on	N	N
Observation start date	2017-11-21T18:48:28	2017-11-21T18:31:28	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	627708377.184000	627709173.76228	On-chip summing requested	N	N
Observation end date	2017-11-22T03:25:08	2017-11-22T03:39:33	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



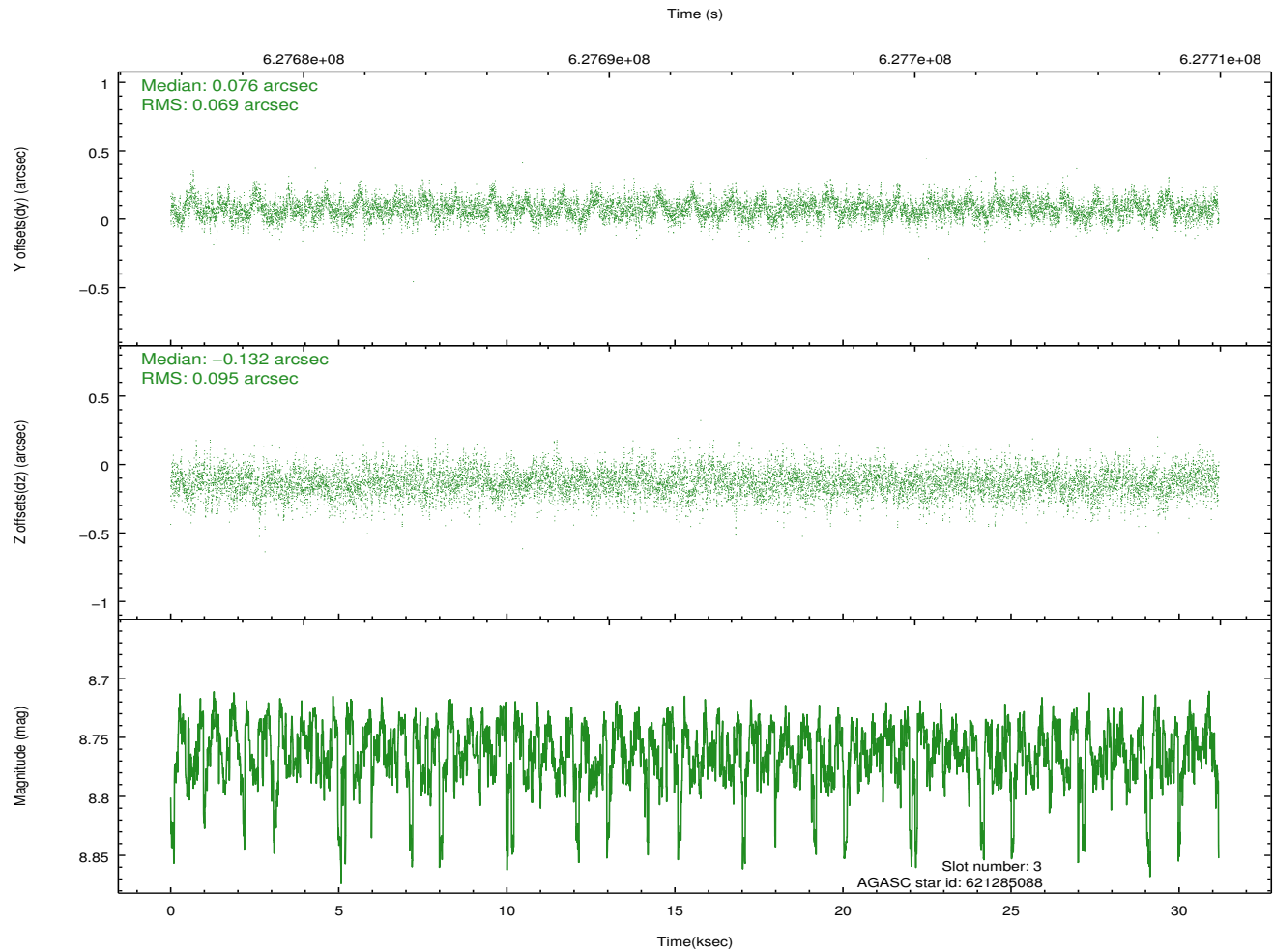
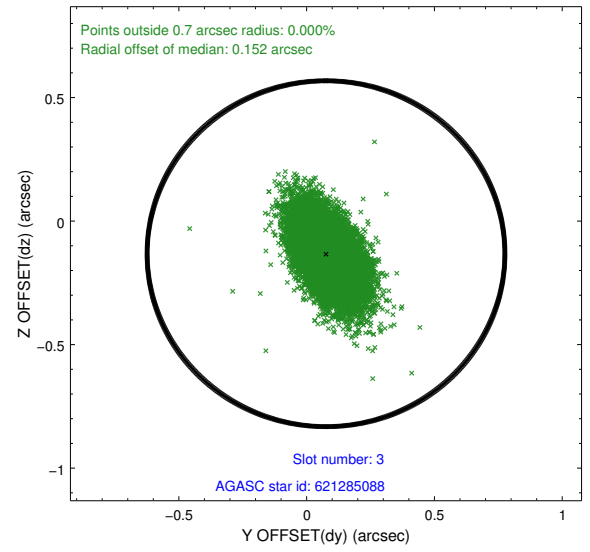
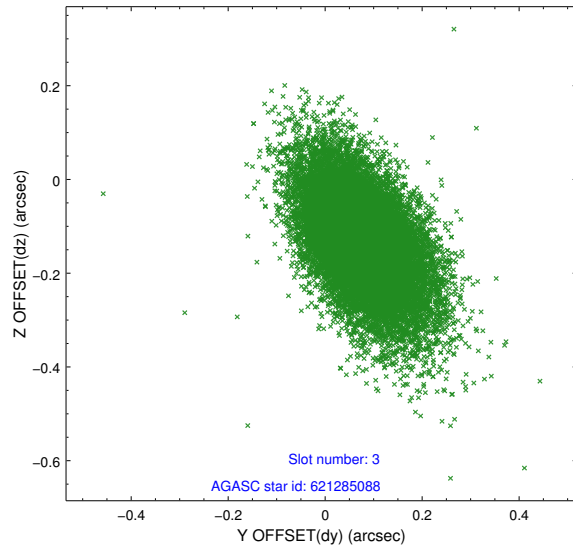


Slot Statistics

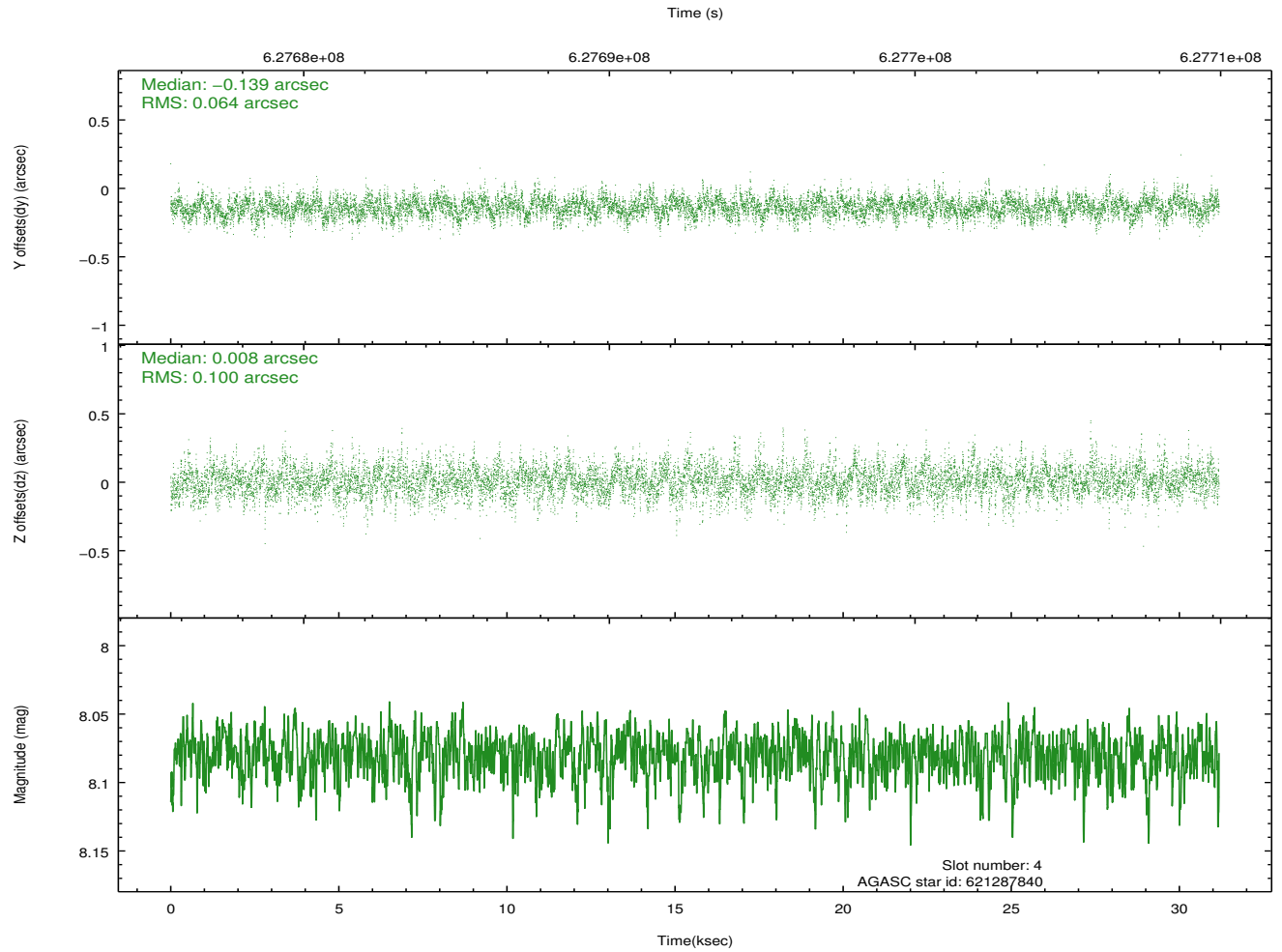
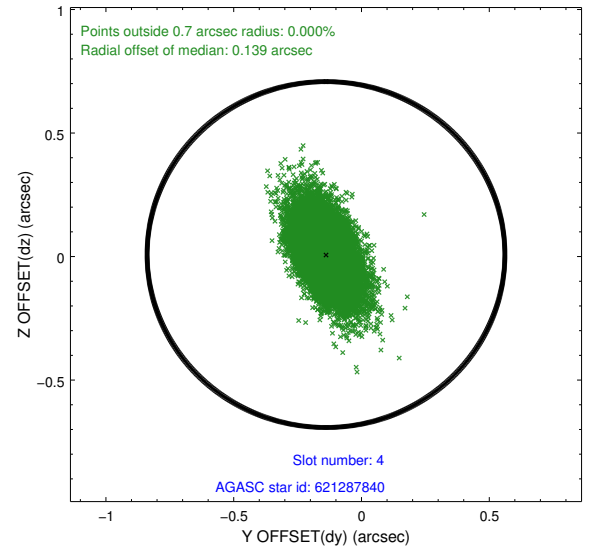
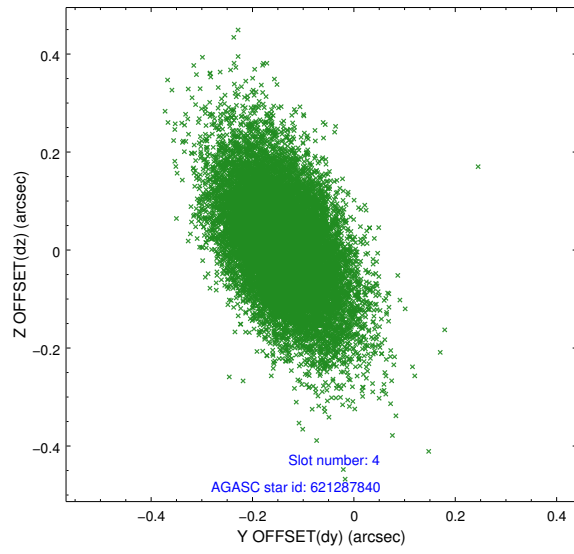
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.12	7606	-0.288	-0.150	0.014	0.020	0.000000	0.000000	-767.48	-728.38
1	FID		ACIS-I-4	7.15	7604	0.384	0.123	0.018	0.027	0.000000	0.000000	2147.30	1177.99
2	FID		ACIS-I-6	7.17	7607	-0.197	0.091	0.019	0.038	0.000000	0.000000	392.54	1821.01
3	GUIDE	used	621285088	8.76	15202	0.076	-0.132	0.120	0.214	72.185532	-2.636590	-636.09	1876.00
4	GUIDE	used	621287840	8.08	15206	-0.139	0.008	0.119	0.219	72.904853	-2.949814	1157.28	-302.13
5	GUIDE	used	621289504	8.88	15196	-0.059	0.101	0.139	0.247	73.076403	-3.394128	980.41	-2007.30
6	GUIDE	used	621817120	8.67	15205	0.399	0.496	0.123	0.212	72.343289	-3.782403	-2000.81	-2056.85
7	GUIDE	used	621284808	8.62	15201	-0.285	-0.469	0.128	0.221	72.478666	-2.477405	563.44	1908.17

2.4 Star Slots

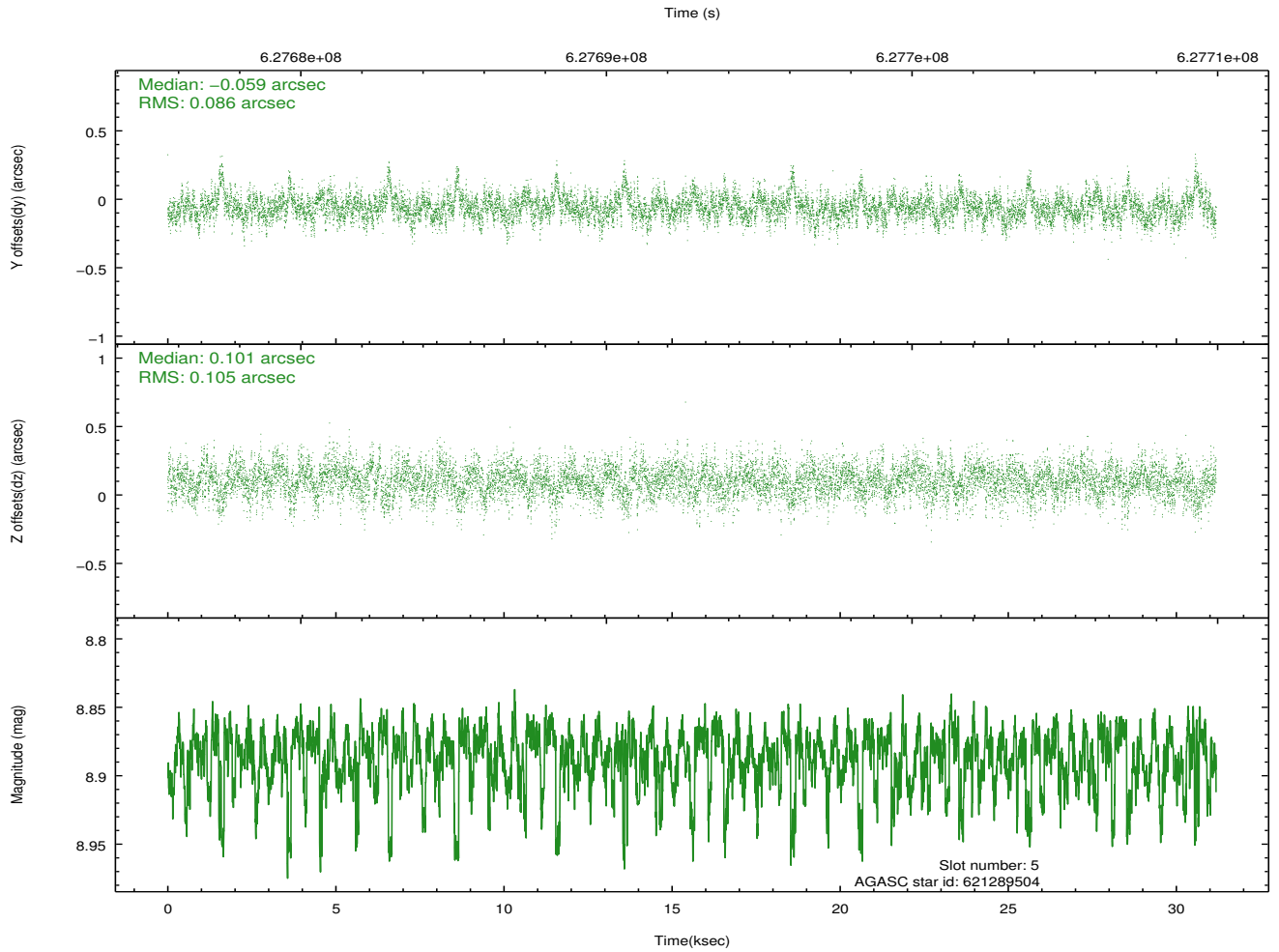
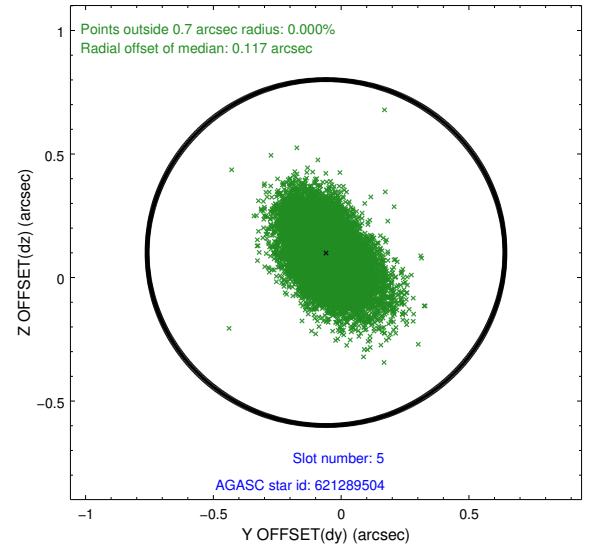
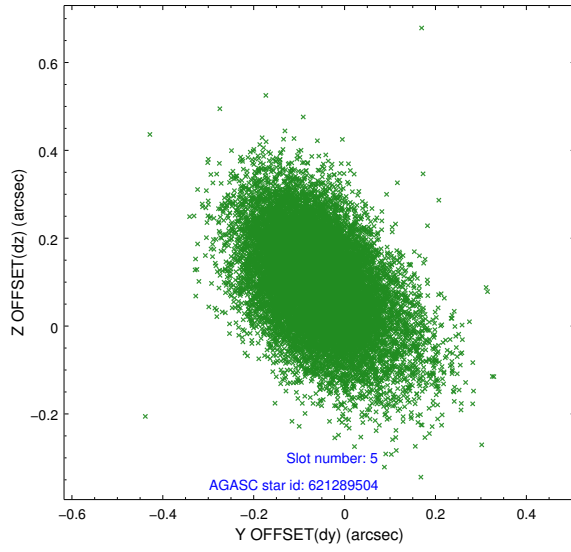
2.4.1 Slot 3



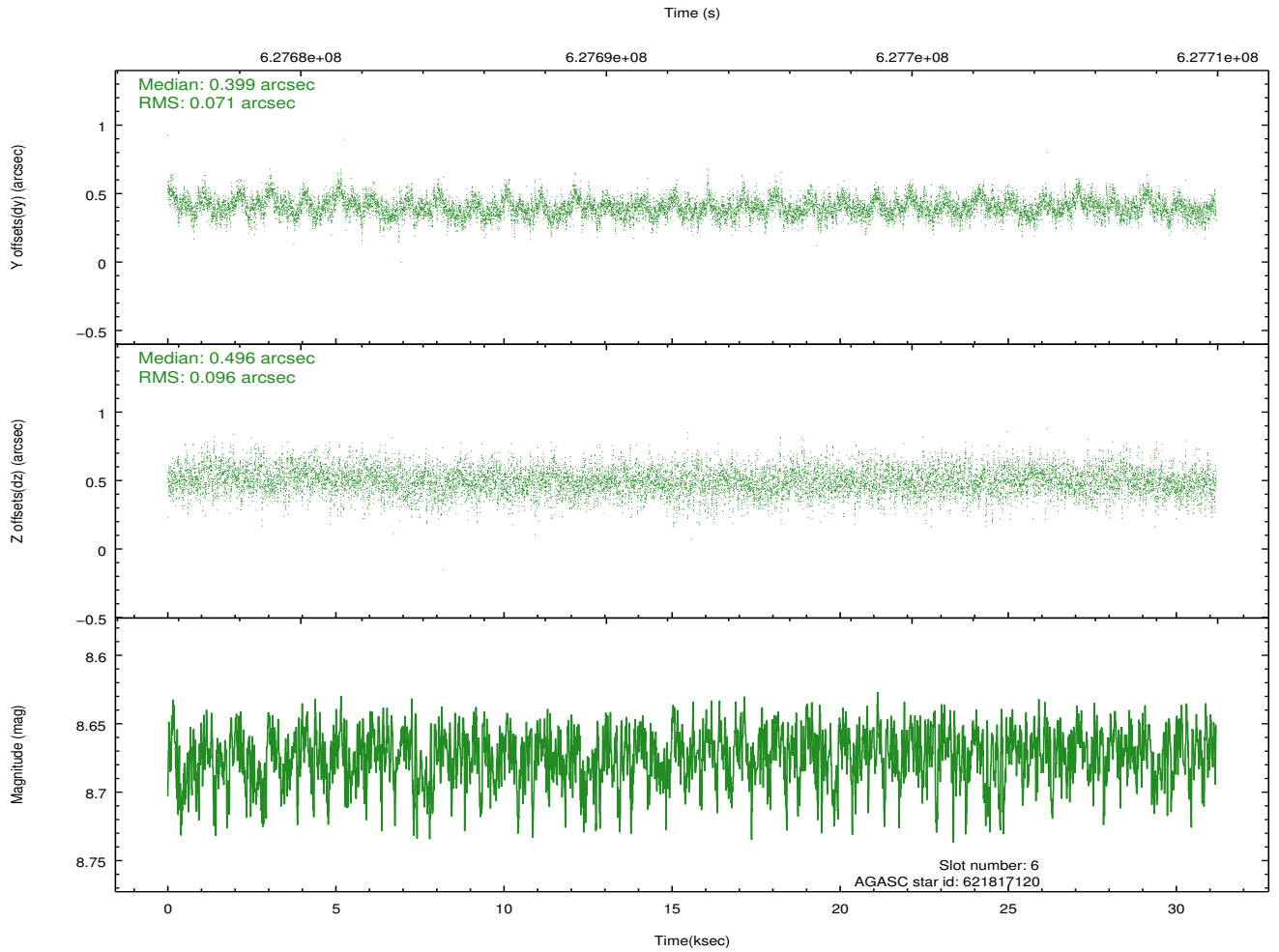
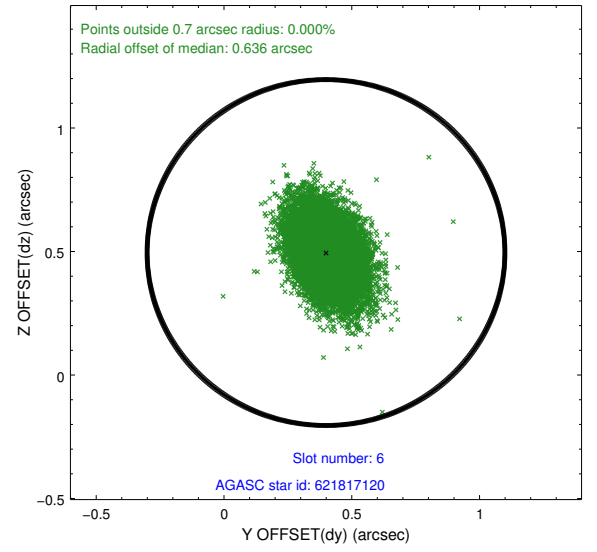
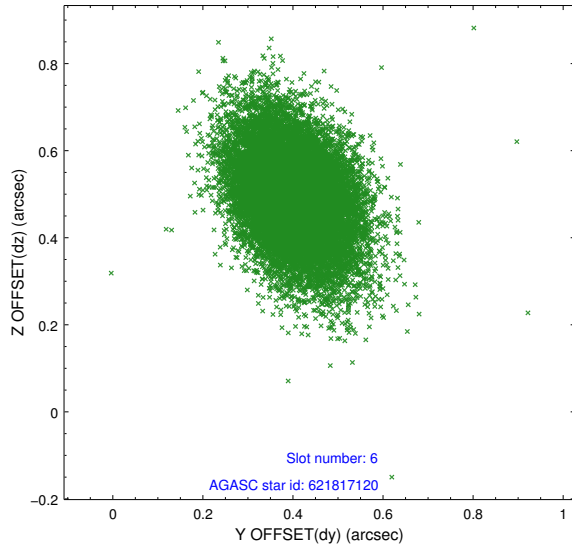
2.4.2 Slot 4



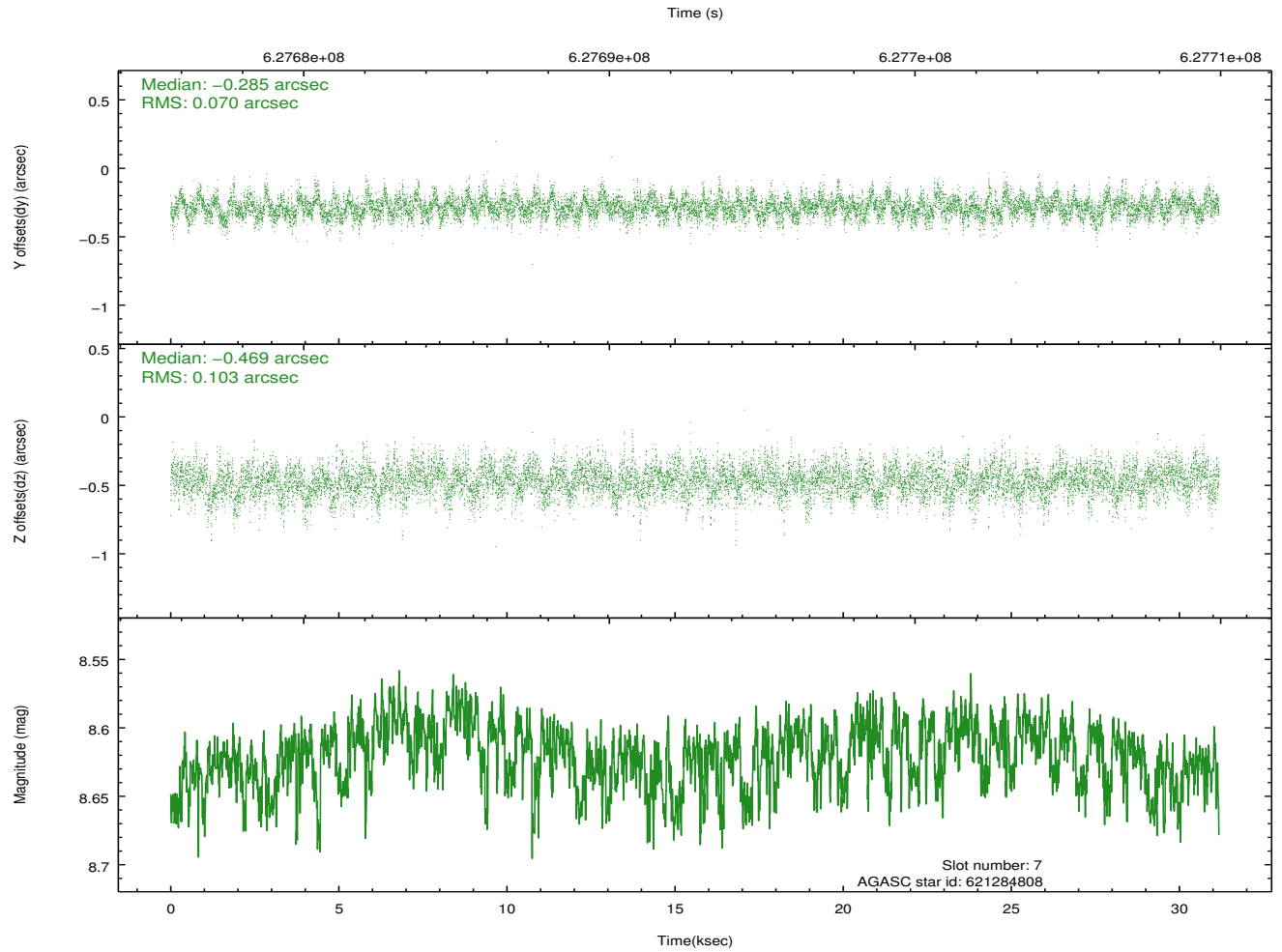
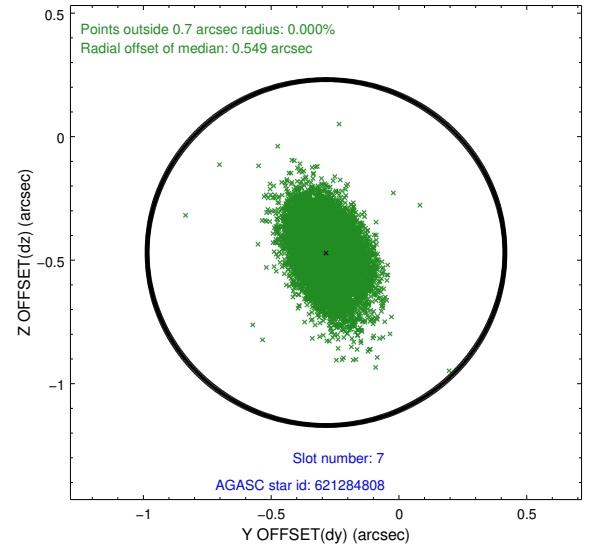
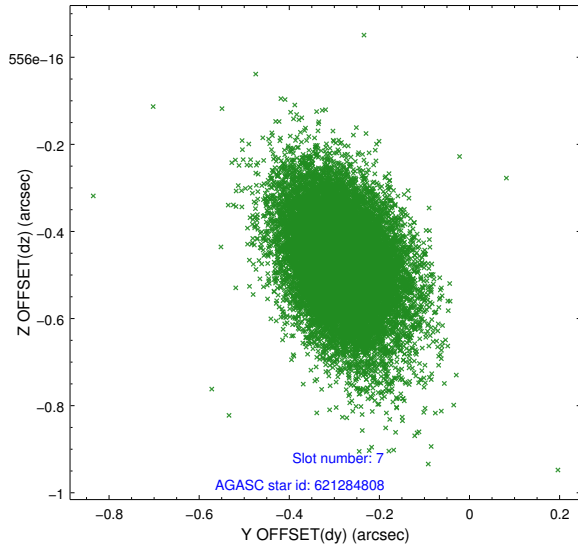
2.4.3 Slot 5



2.4.4 Slot 6

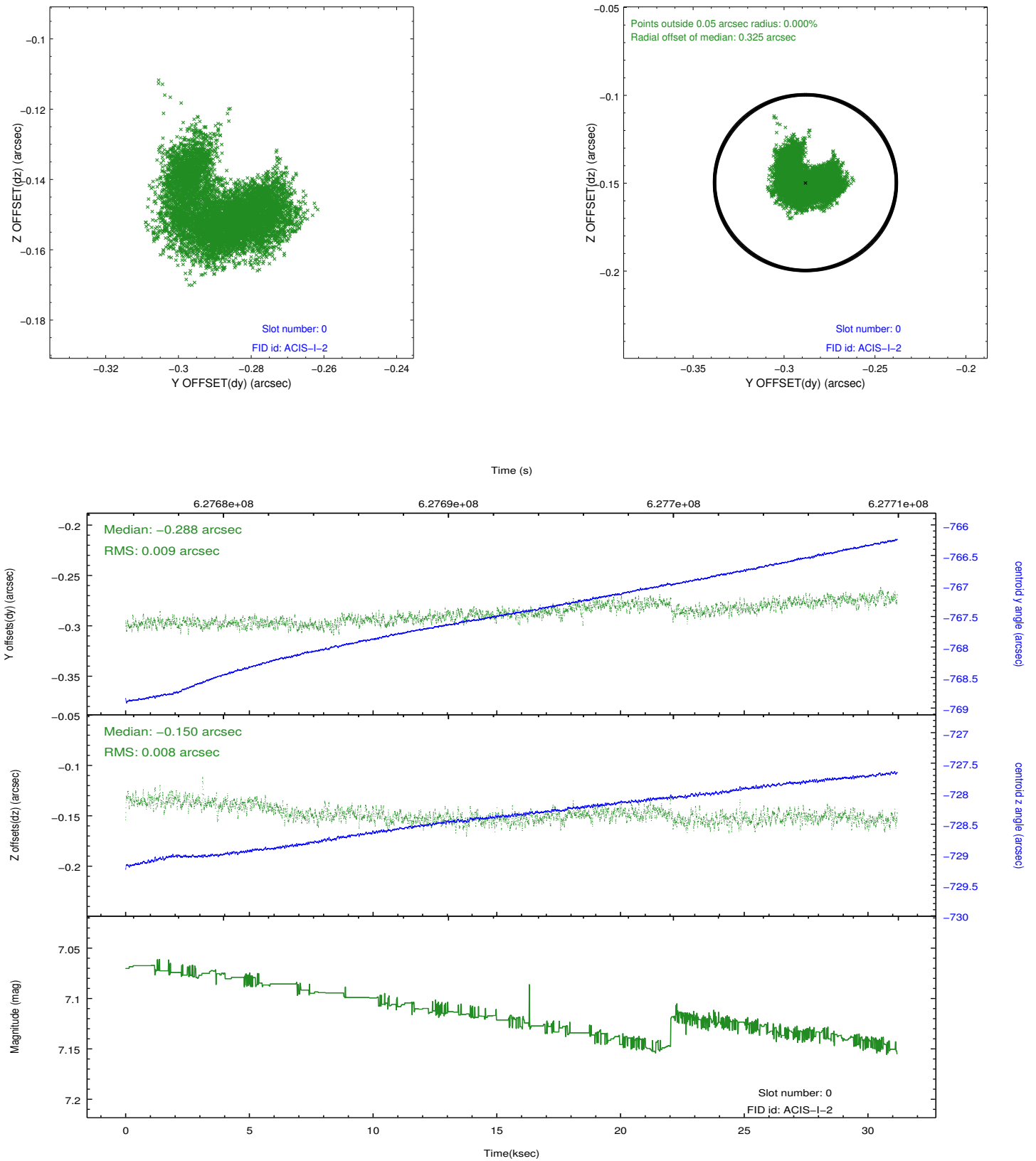


2.4.5 Slot 7

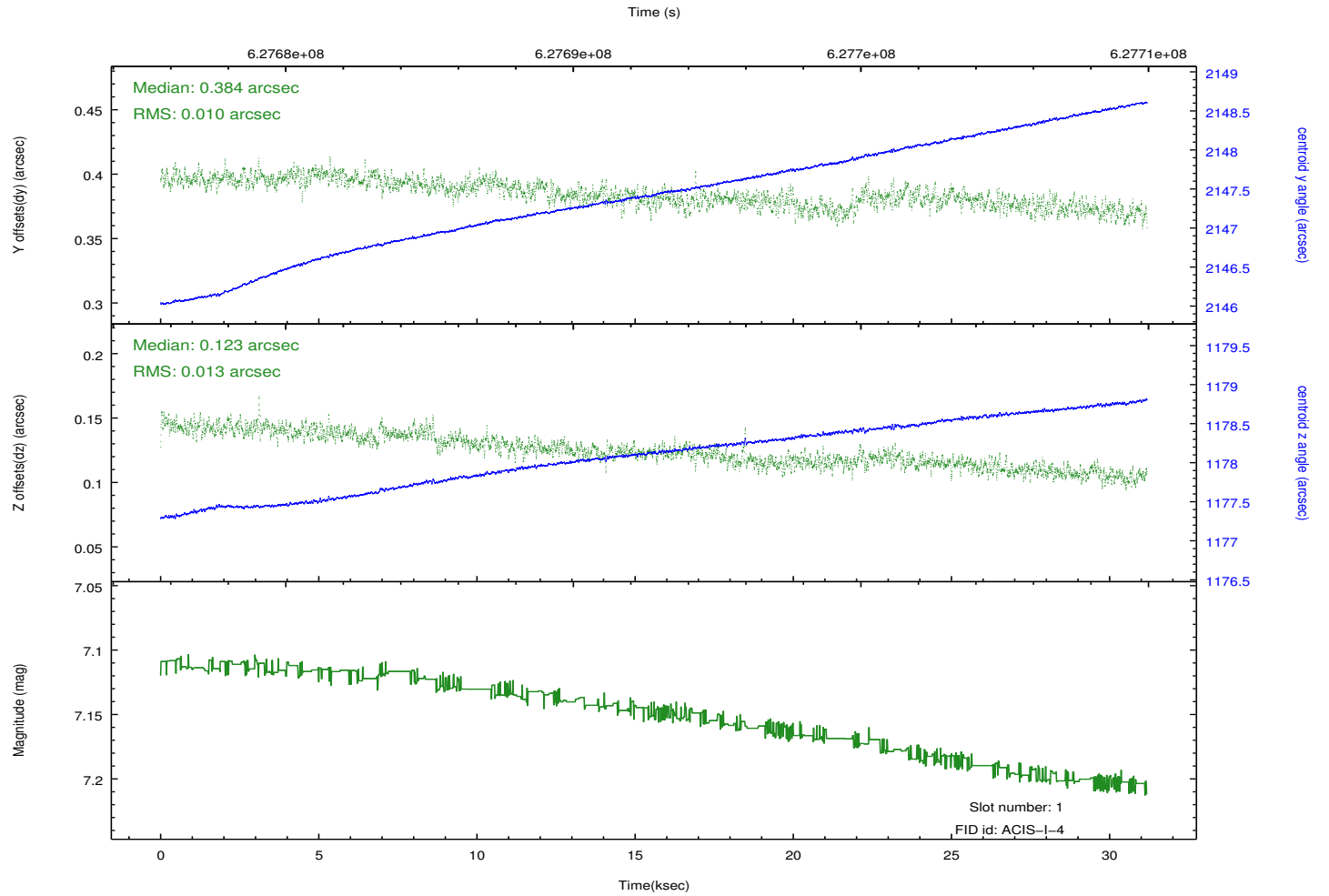
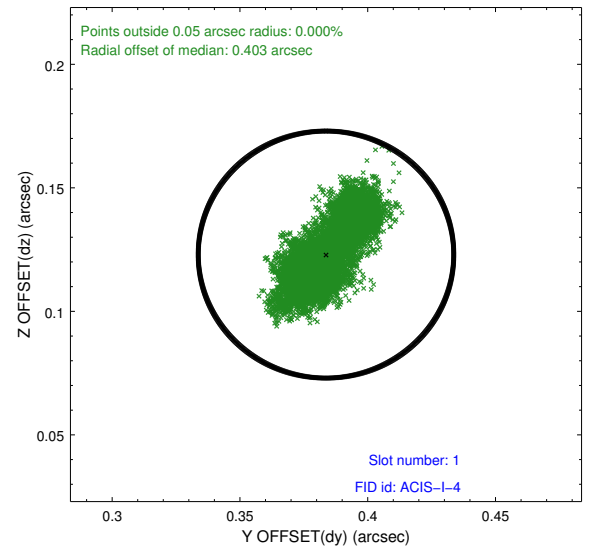
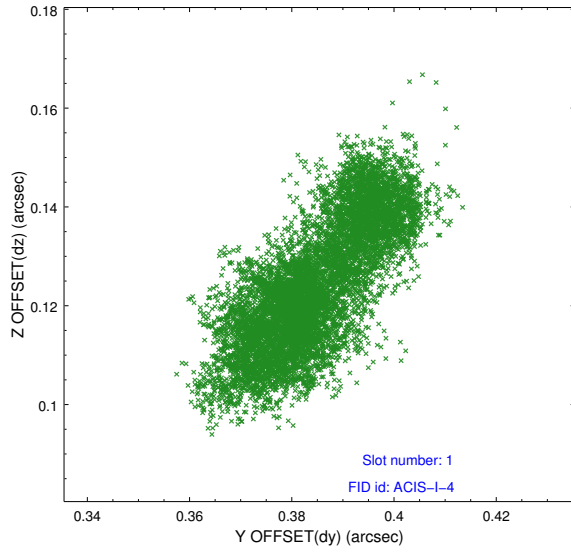


2.5 FID Slots

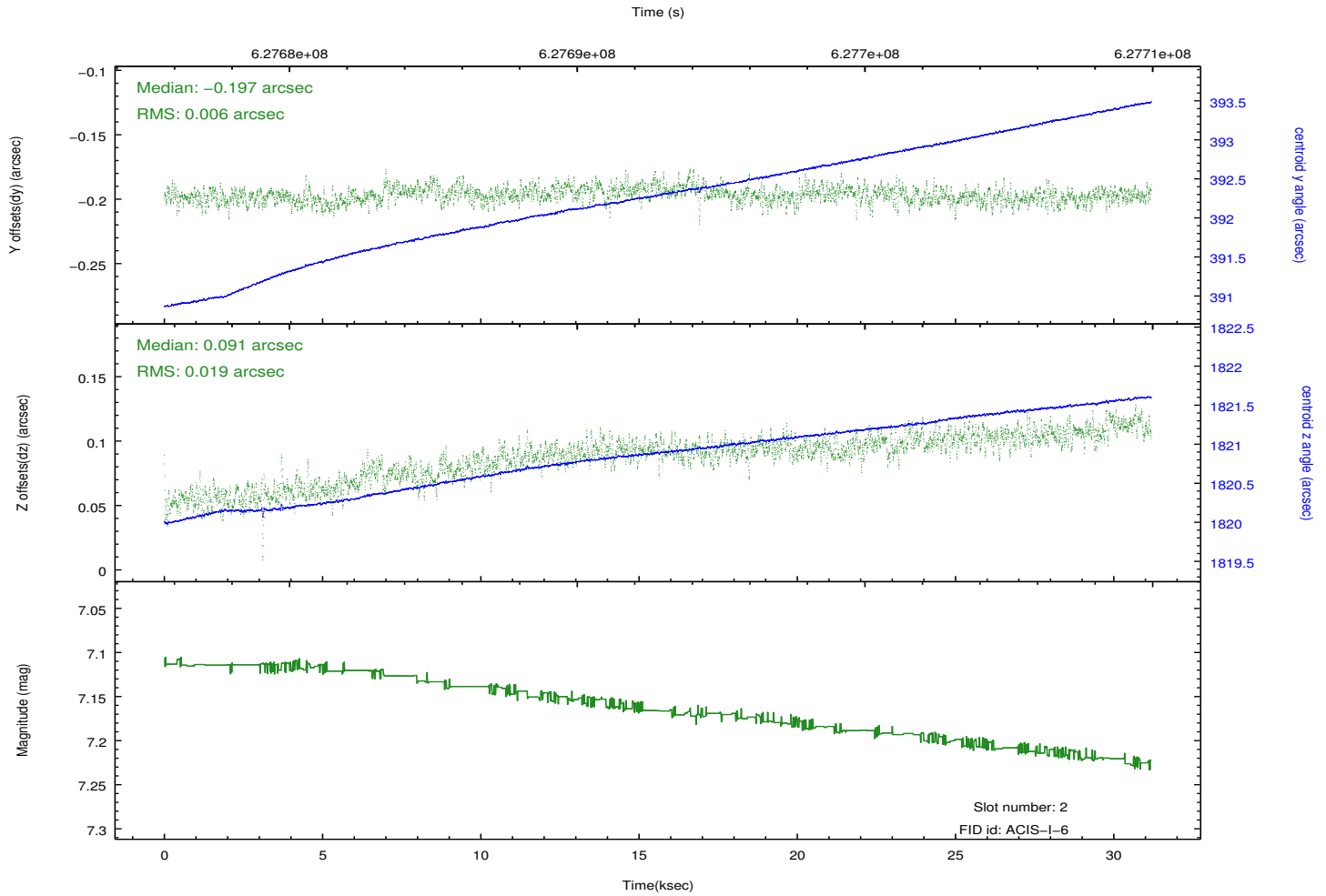
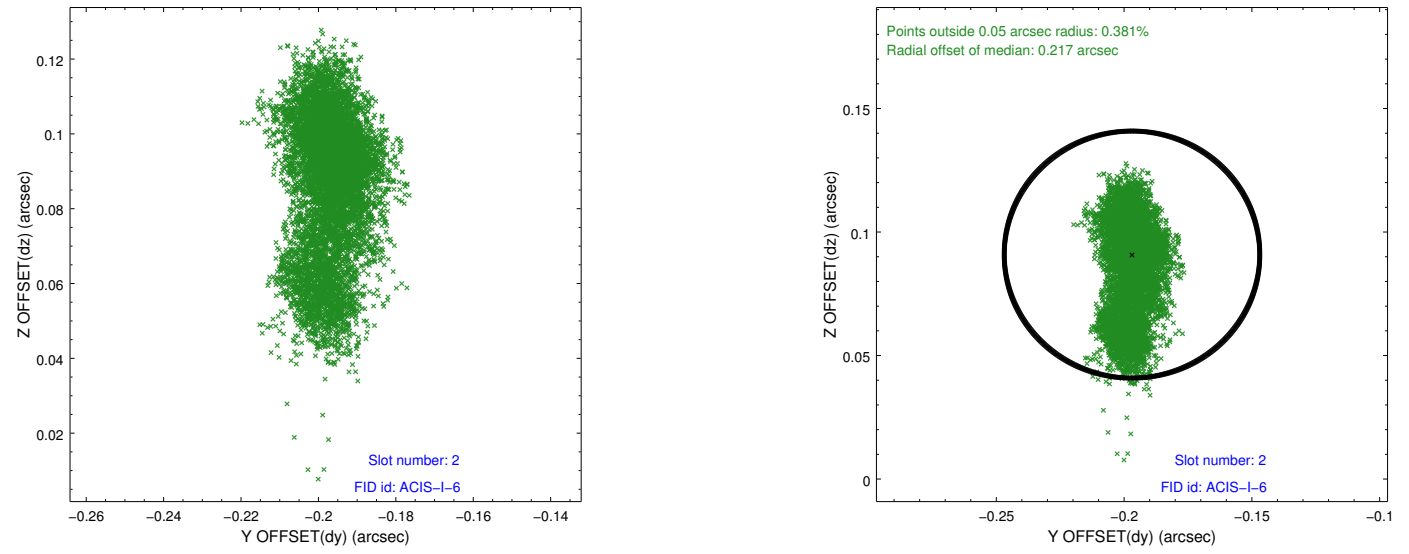
2.5.1 Slot 0



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)	2017.11.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.077459158778

A.2 Comments

Optional chip S3 not included.