

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19420 - L2 Version 1
Chandra X-Ray Center

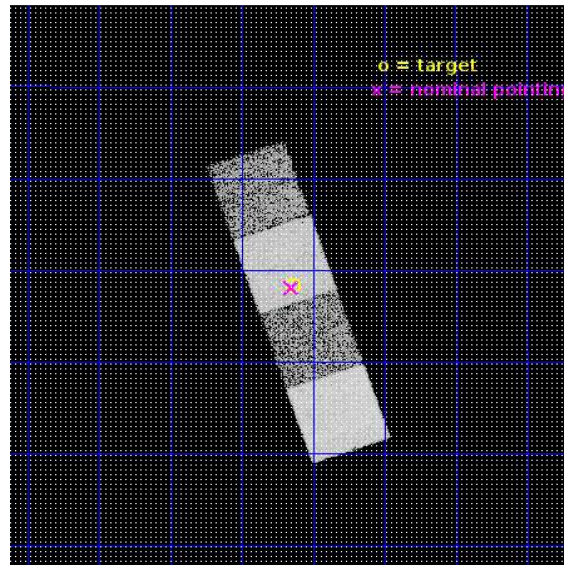
L2 Processing Date : Jul 27 2017

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1 Front

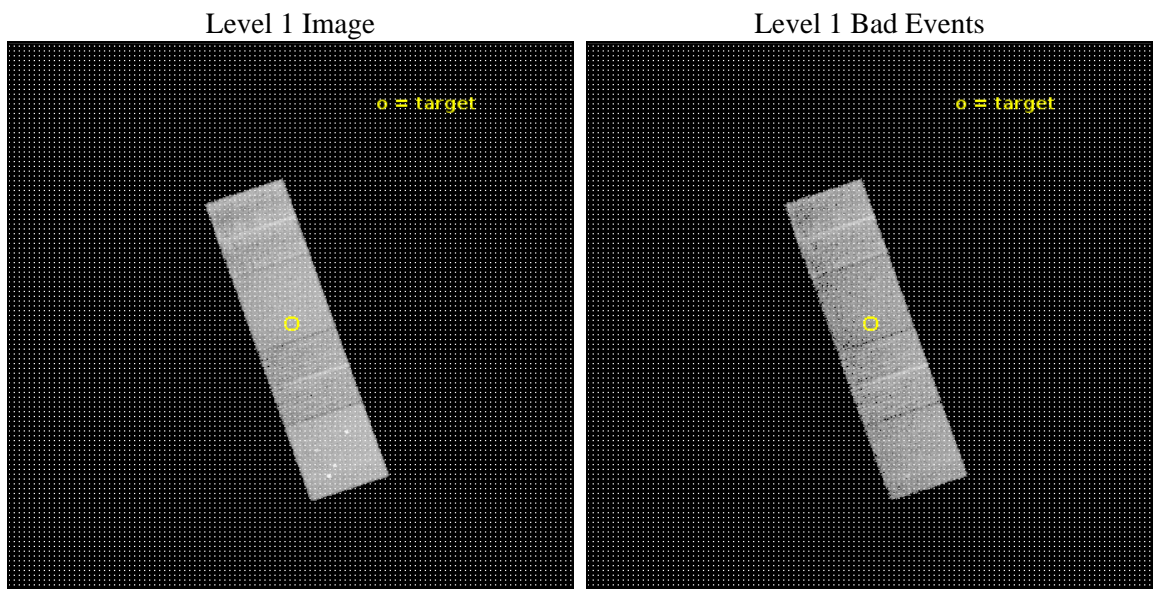
seq_num	601377	Sequence number
obs_id	19420	Observation id
title	Spiral galaxies of the Virgo cluster	Proposal title
observer	Roberto Soria	Principal investigator
object	NGC 4197	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	183.660417	Observer's specified target RA [deg]
dec_targ	5.805722	Observer's specified target Dec [deg]
ra_nom	183.66310792496	Nominal RA [deg]
dec_nom	5.8016675008504	Nominal Dec [deg]
roll_nom	251.02731932846	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8063.1000621319	Sum of GTIs [s]
livetime	7957.7497238522	Livetime [s]
ontime5	8063.1000621319	Sum of GTIs [s]
ontime6	8063.1000621319	Sum of GTIs [s]
ontime7	8063.1000621319	Sum of GTIs [s]
ontime8	8063.1000621319	Sum of GTIs [s]
l2events	81473	Number of level 2 events



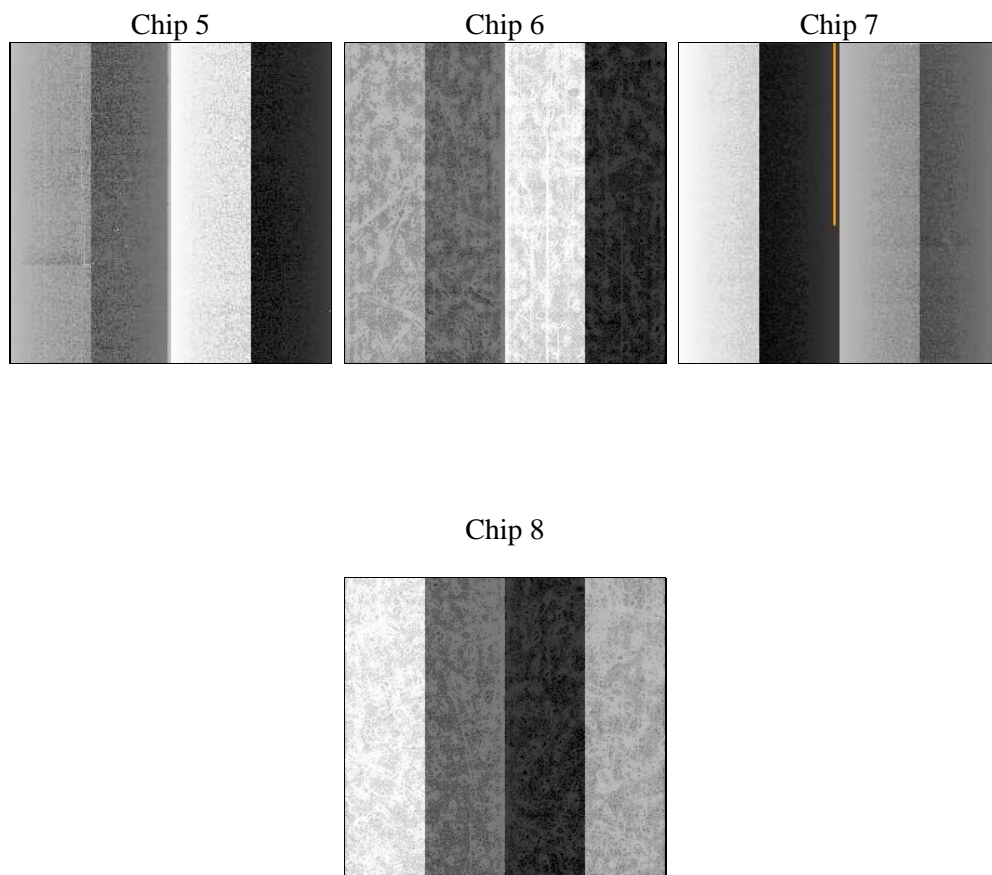
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	8063.1000621319	Sum of GTIs [s]
caldsver	4.7.5	 	ontime5	8063.1000621319	Sum of GTIs [s]
date	2017-07-27T13:37:40	Date and time of file creation	ontime6	8063.1000621319	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	8063.1000621319	Sum of GTIs [s]
			ontime8	8063.1000621319	Sum of GTIs [s]
			l1events	290716	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	90635	56756	70645	72680
rejected events	46154	50382	39541	53043
rejected %	50%	88%	55%	72%

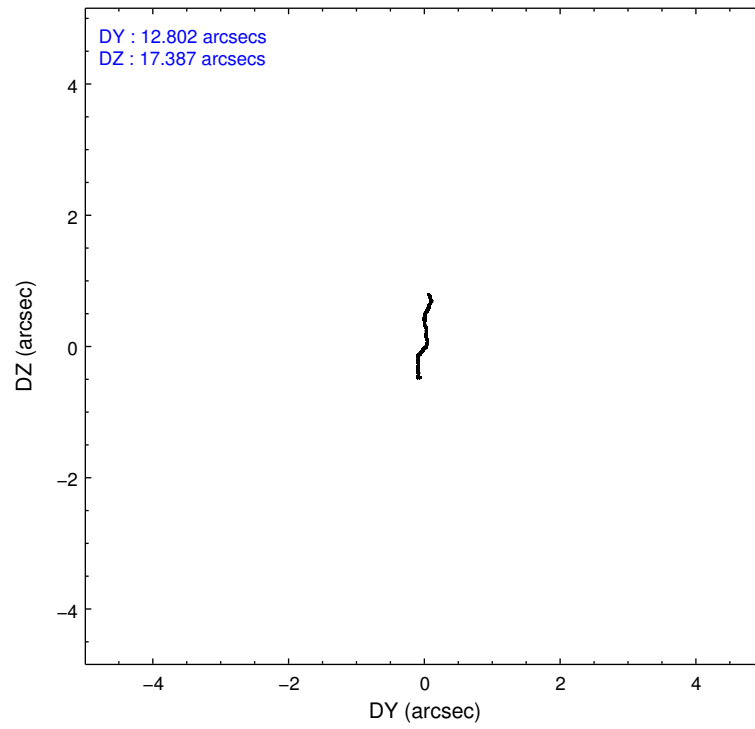
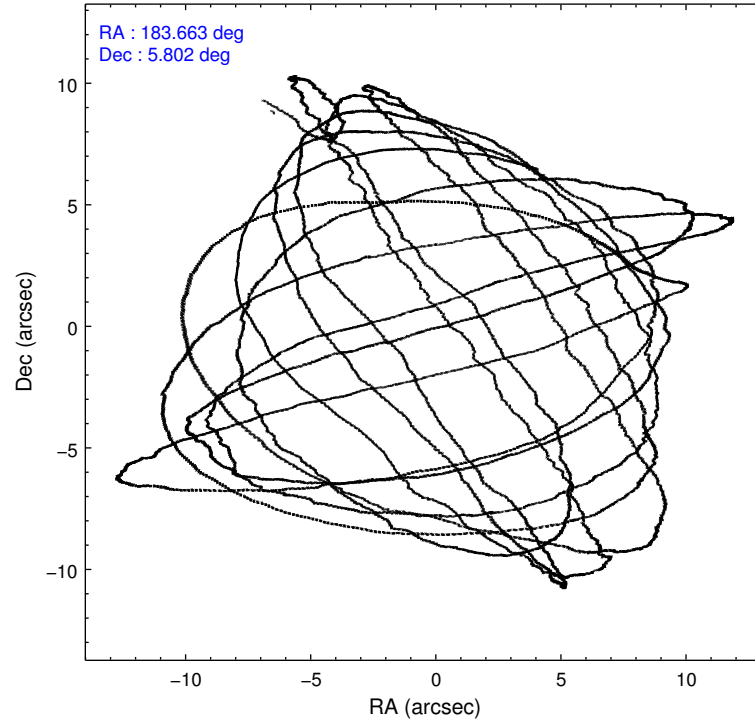
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	5268	2064	2670	5608
	5%	3%	3%	7%
grade 1 events	413	22	88	49
	0%	0%	0%	0%
grade 2 events	13764	1532	6576	4801
	15%	2%	9%	6%
grade 3 events	1318	617	2535	2138
	1%	1%	3%	2%
grade 4 events	1225	597	2437	1944
	1%	1%	3%	2%
grade 5 events	5944	2524	6981	3906
	6%	4%	9%	5%
grade 6 events	22938	1570	16912	5150
	25%	2%	23%	7%
grade 7 events	39765	47830	32446	49084
	43%	84%	45%	67%

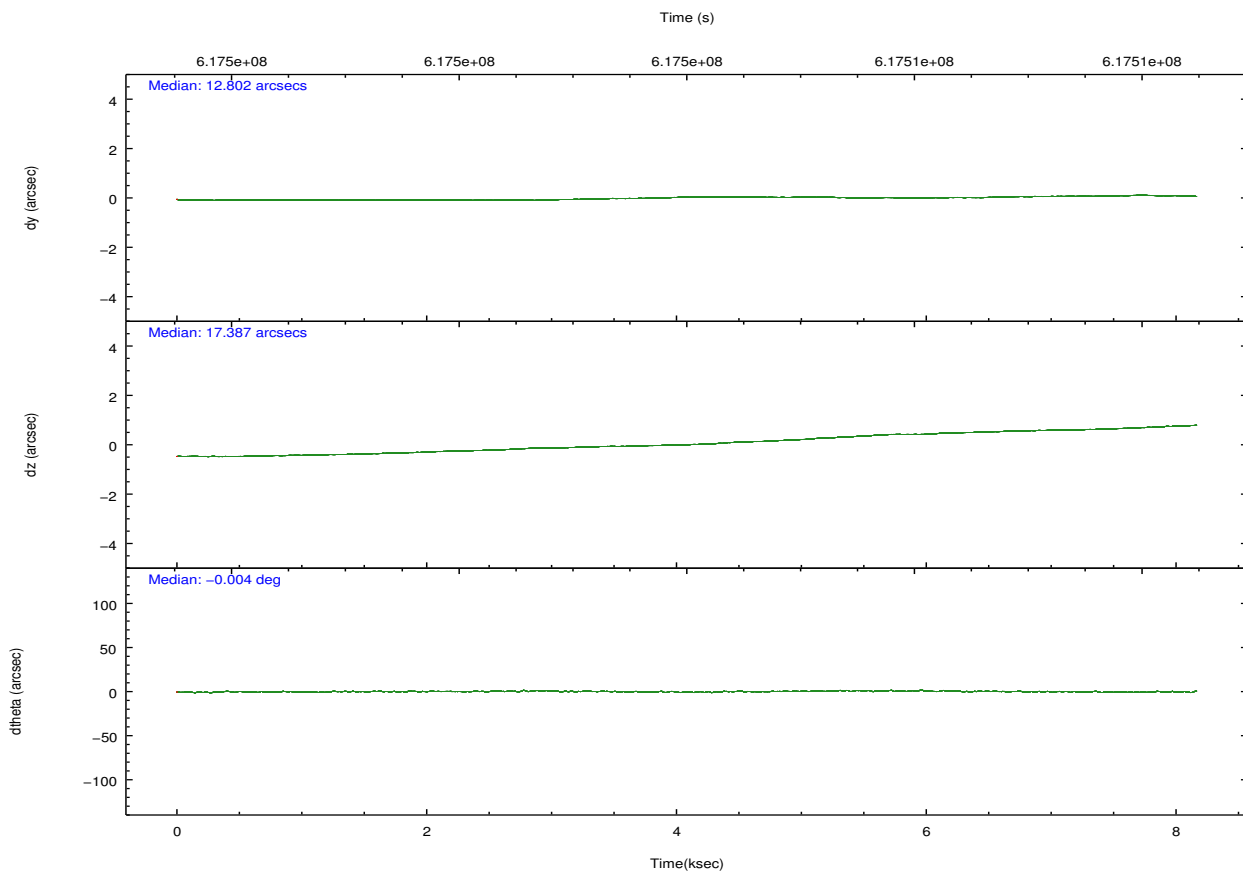
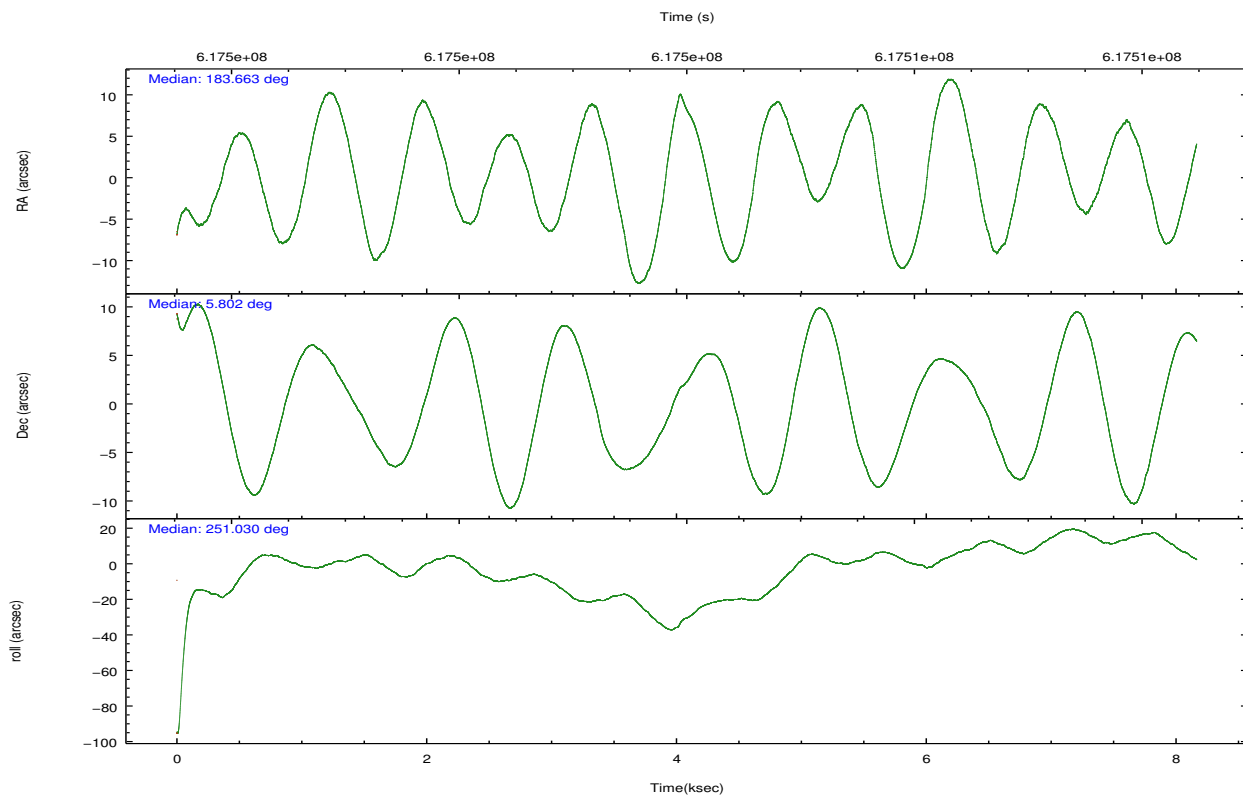
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-5678	ACIS-5678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	183.657520	183.6631079249566
[deg] Pointing Dec	5.828477	5.801667500850381
[deg] Pointing Roll	250.871393	251.0273193284644
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	617500074.184000	617498910.87716
Observation start date	2017-07-26T23:46:45	2017-07-26T23:28:30
[s] Observation end time (MET)	617508074.184000	617508875.4152499
Observation end date	2017-07-27T02:00:05	2017-07-27T02:14:35
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



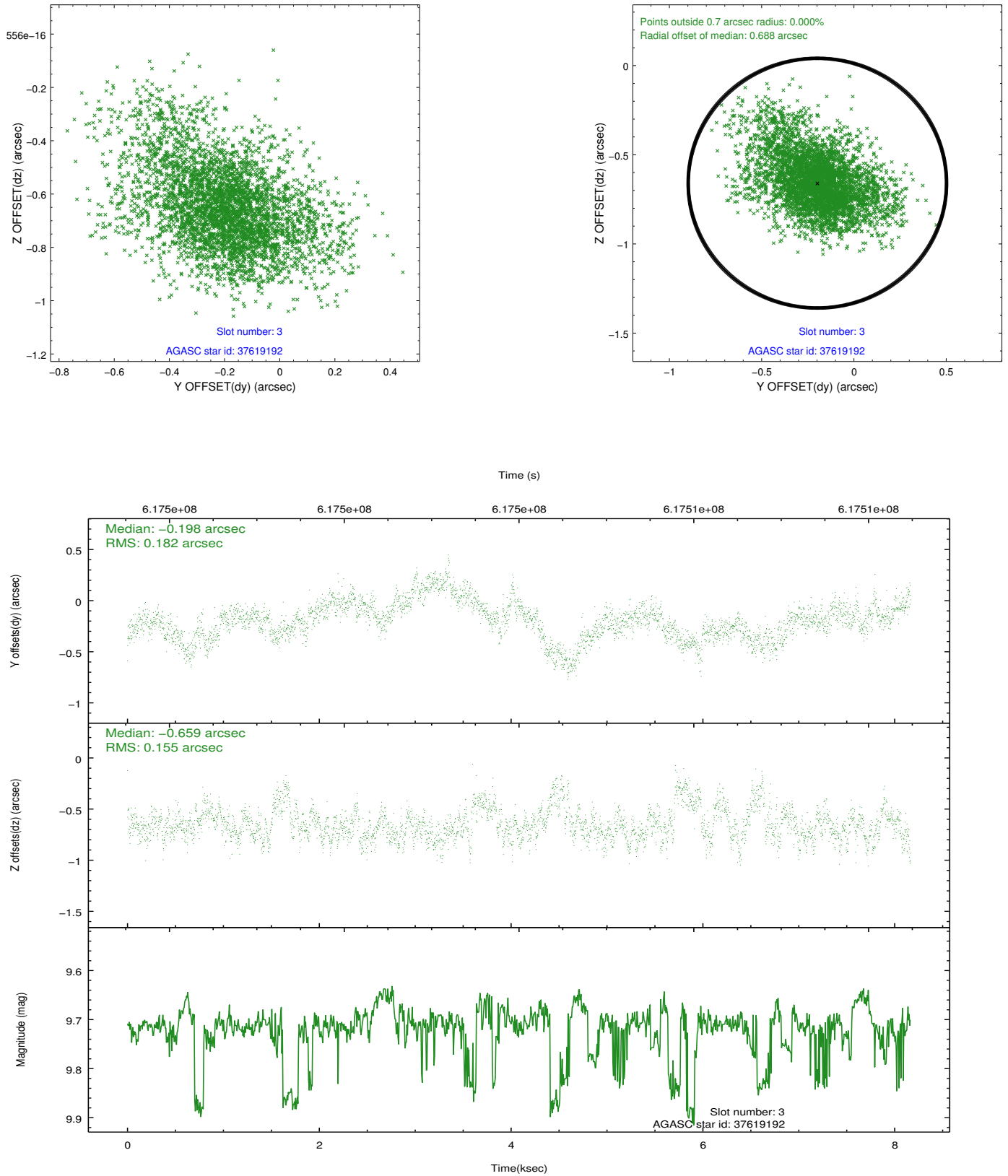


Slot Statistics

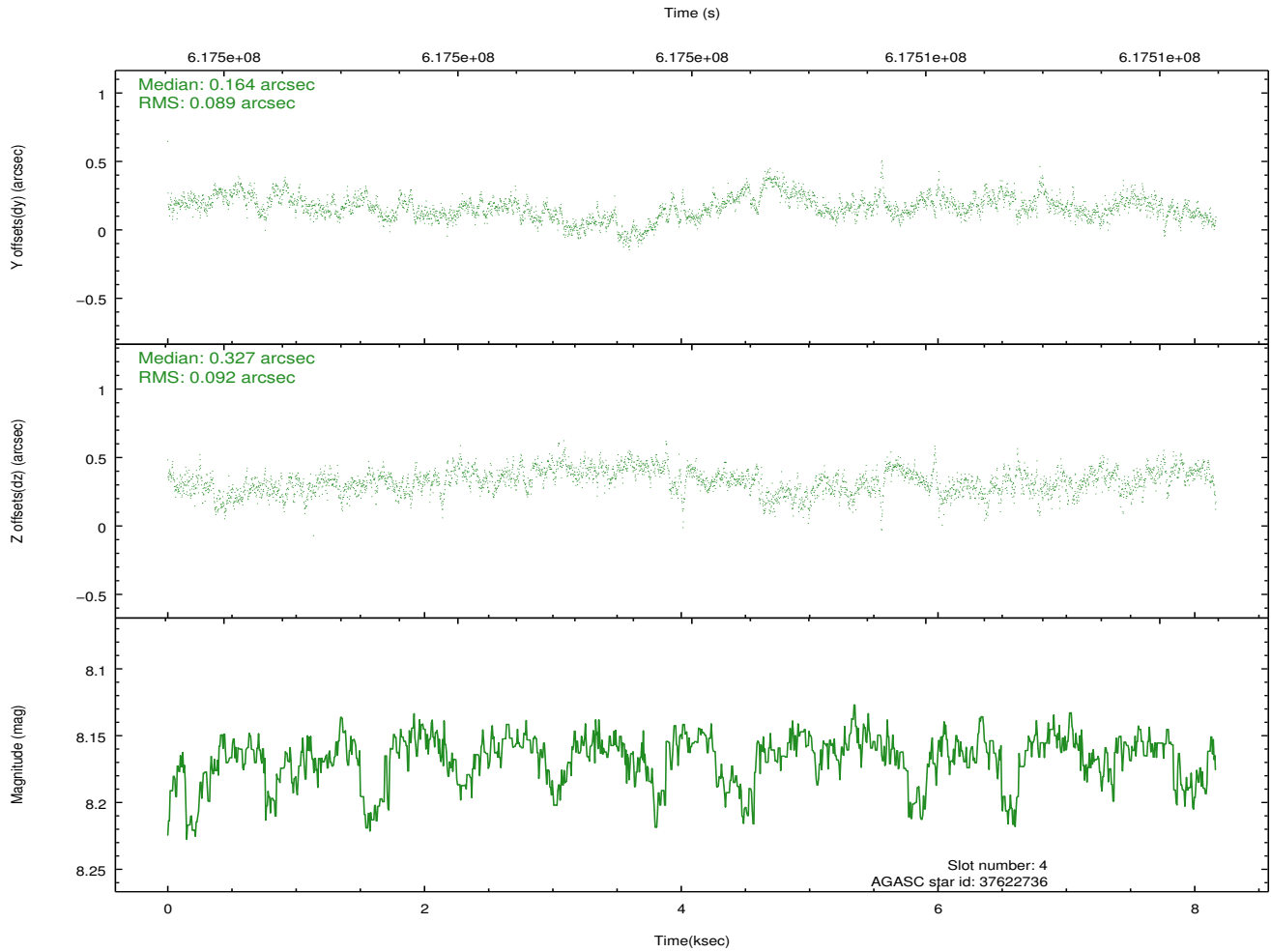
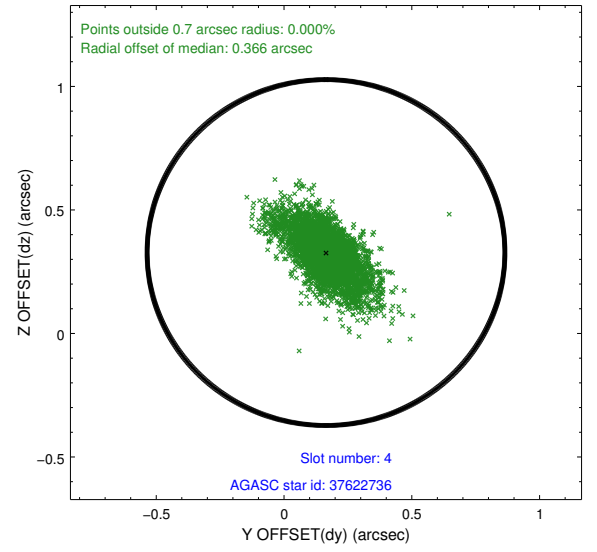
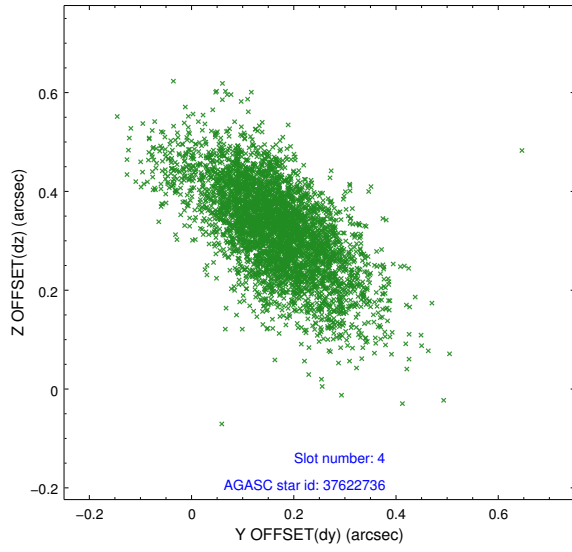
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.03	1992	-0.123	-0.108	0.014	0.022	0.000000	0.000000	-765.81	-1739.02
1	FID		ACIS-S-4	7.15	1991	0.413	0.088	0.007	0.012	0.000000	0.000000	2147.68	168.96
2	FID		ACIS-S-5	7.15	1991	-0.320	0.028	0.012	0.020	0.000000	0.000000	-1817.98	163.33
3	GUIDE	used	37619192	9.71	3974	-0.198	-0.659	0.245	0.436	184.096800	5.209797	1588.56	2217.52
4	GUIDE	used	37622736	8.16	3983	0.164	0.327	0.127	0.237	183.096436	6.065123	-146.14	-2175.75
5	GUIDE	used	37623352	9.66	3977	0.107	0.238	0.218	0.366	183.276938	5.497306	1574.14	-898.83
6	GUIDE	used	37625632	7.26	3984	-0.232	0.121	0.120	0.217	183.073550	5.872807	535.50	-2028.22
7	GUIDE	used	37620320	9.00	3981	0.178	-0.019	0.206	0.352	182.993897	5.341289	2436.85	-1672.78

2.4 Star Slots

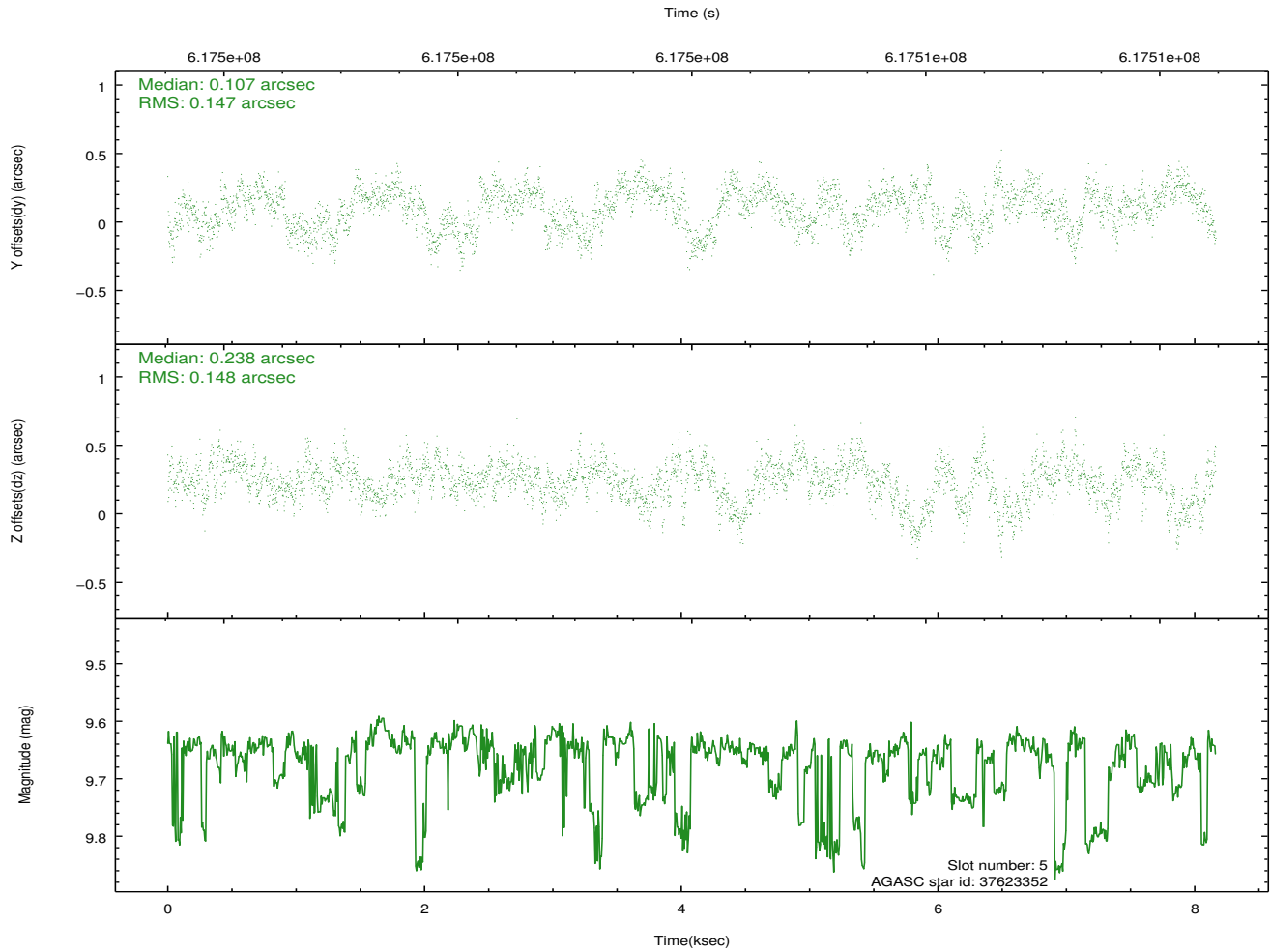
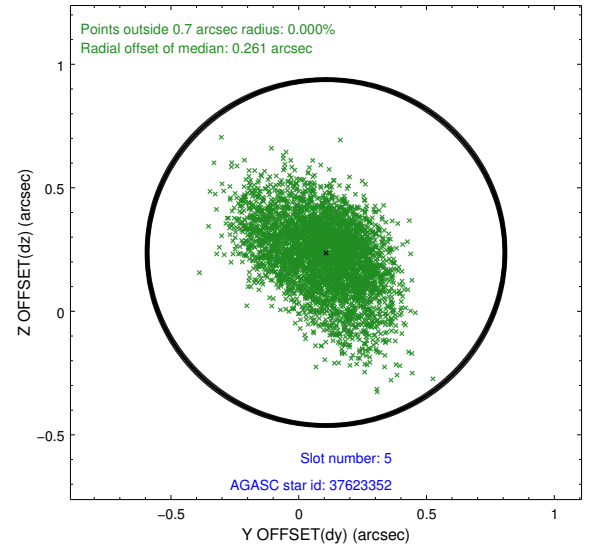
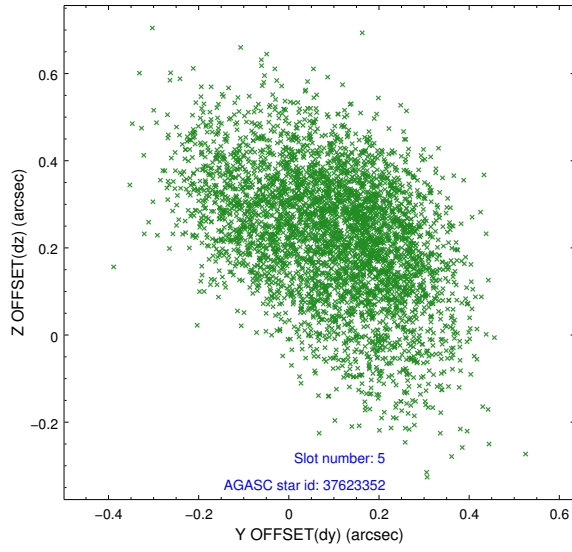
2.4.1 Slot 3



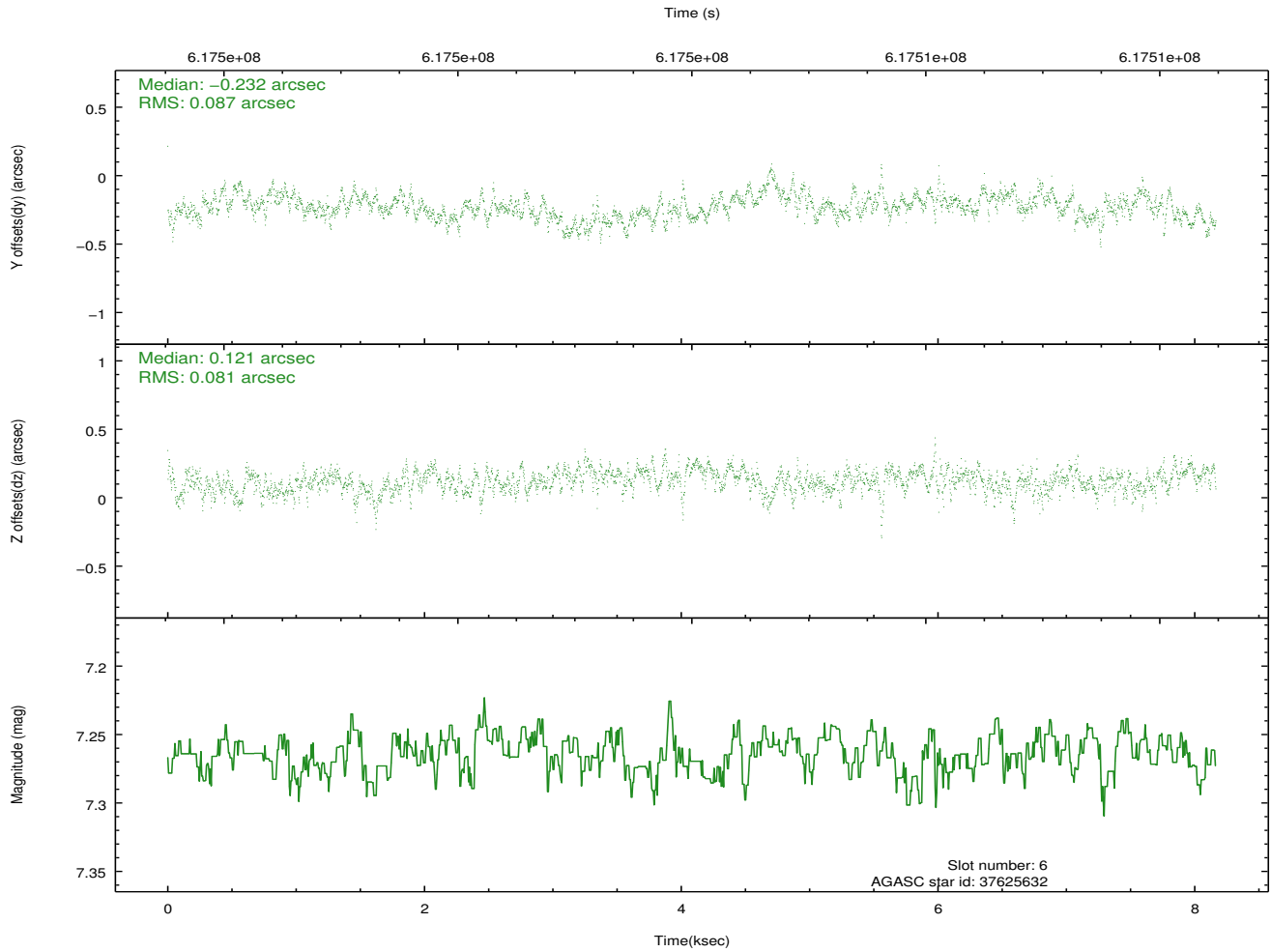
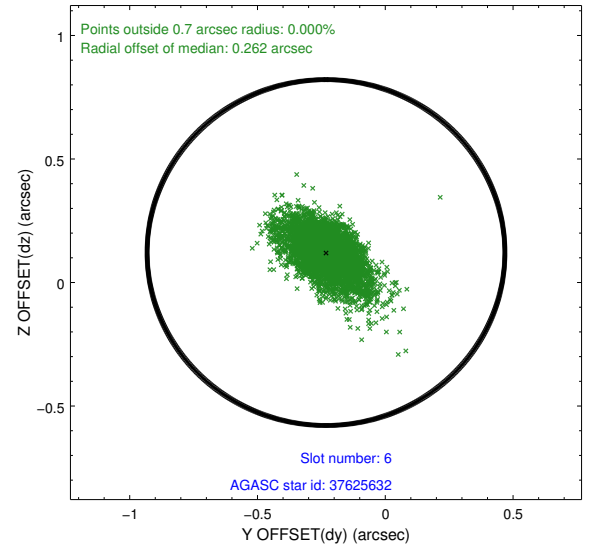
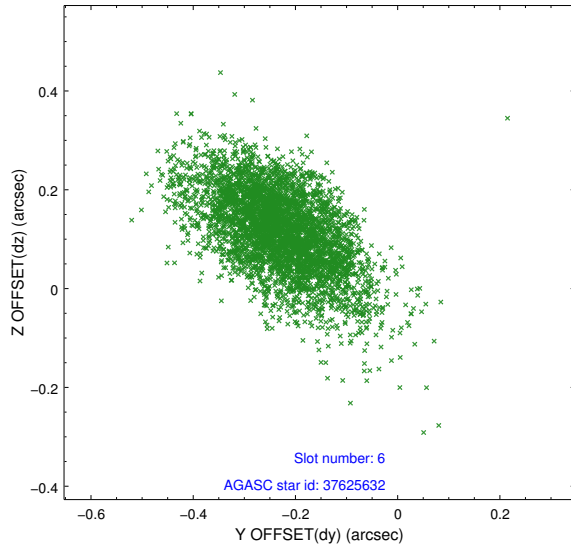
2.4.2 Slot 4



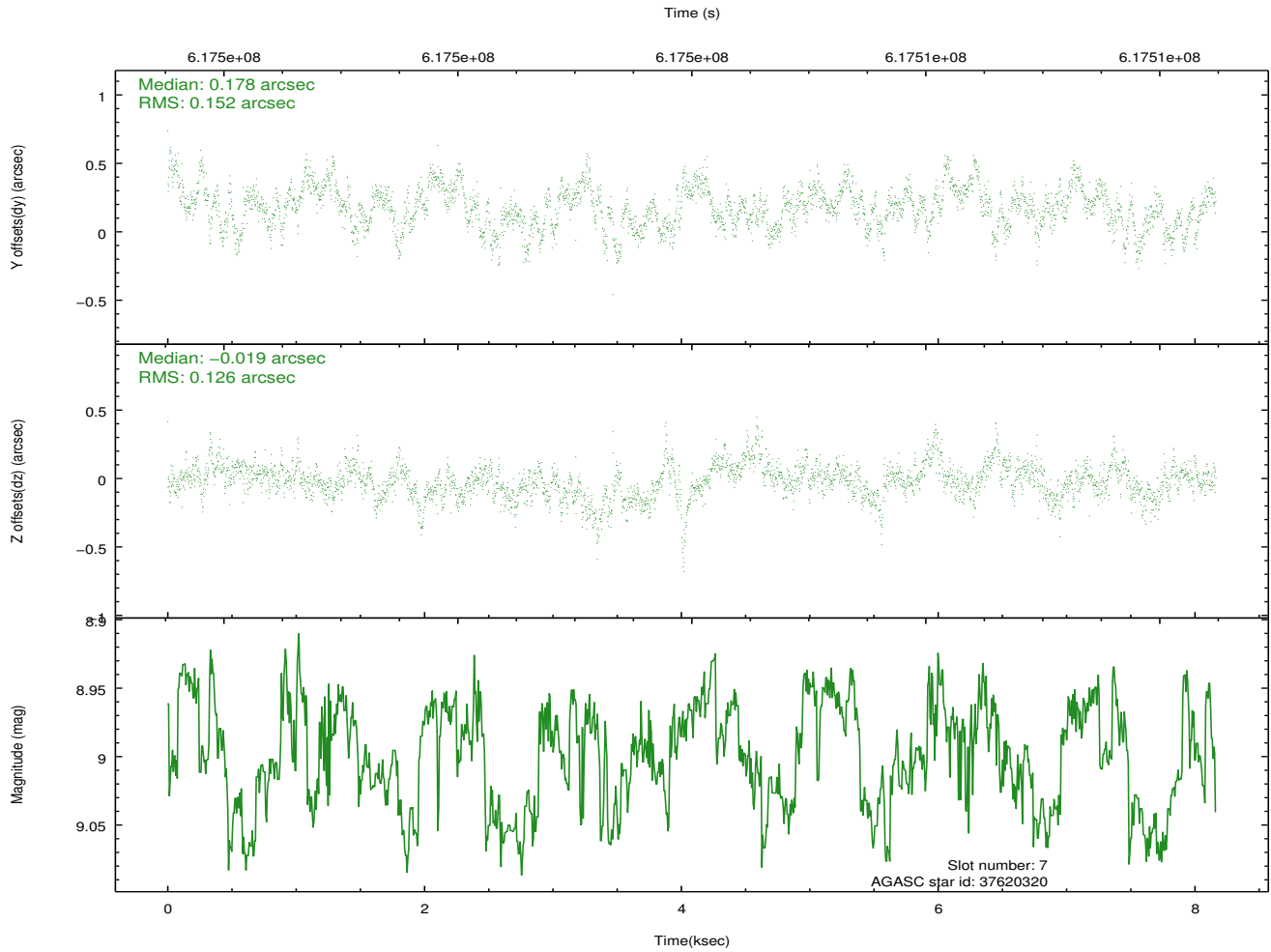
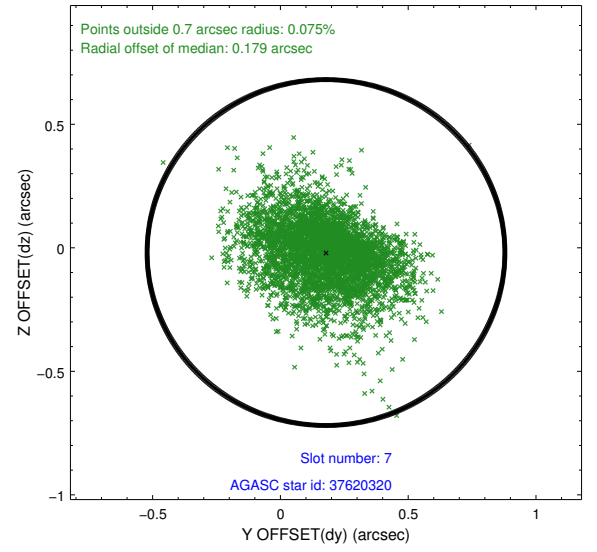
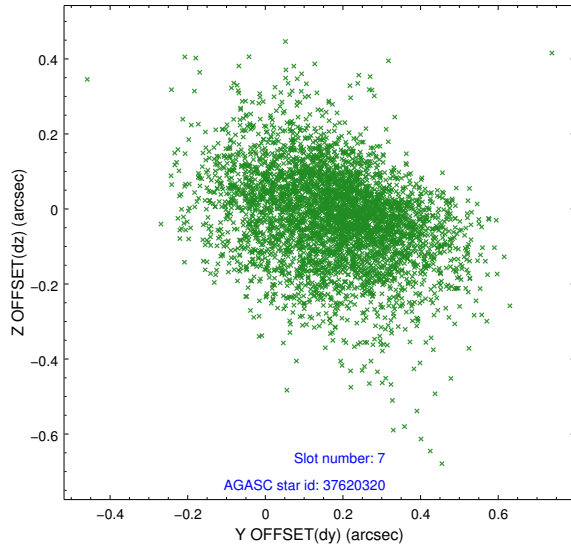
2.4.3 Slot 5



2.4.4 Slot 6

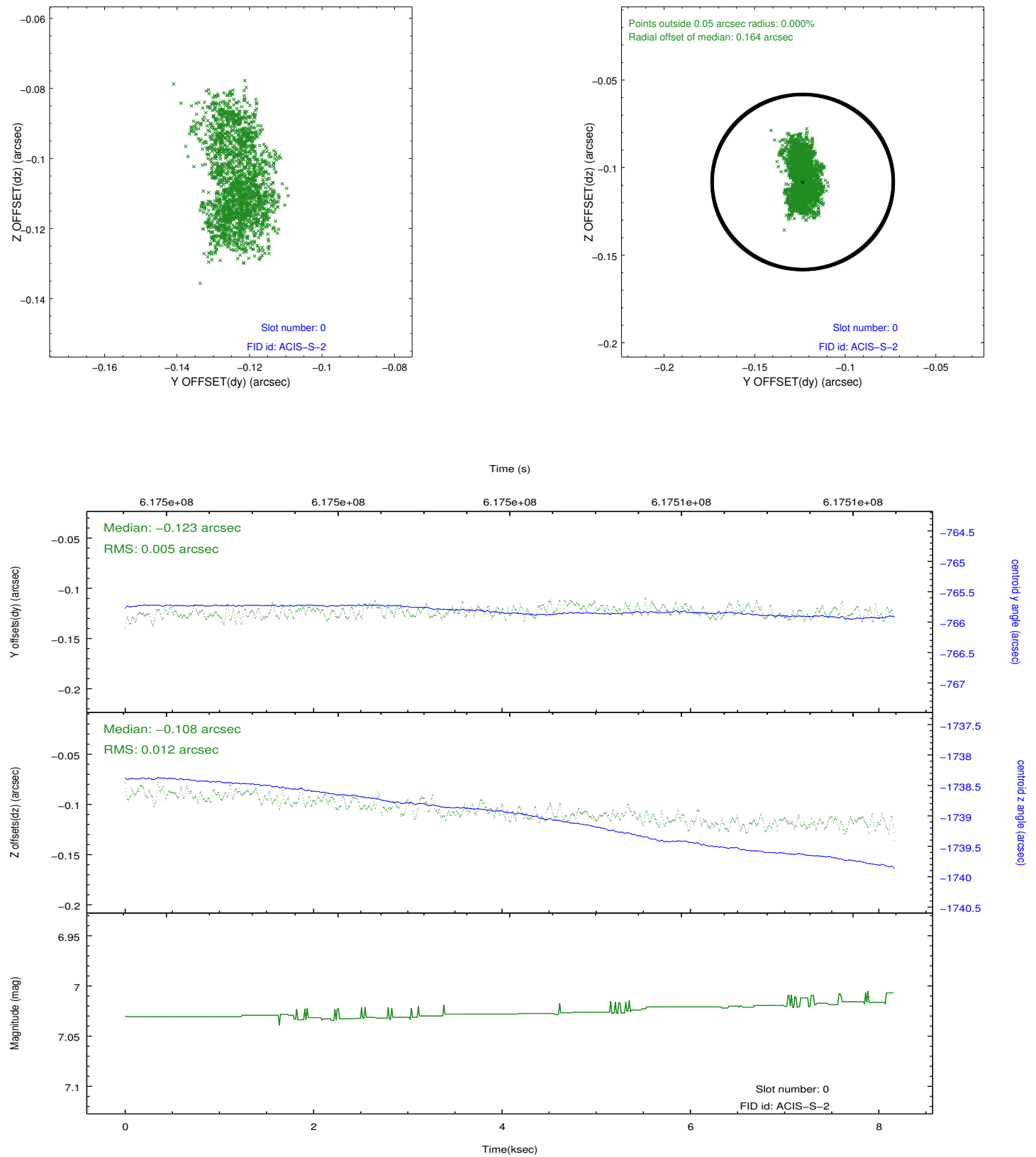


2.4.5 Slot 7

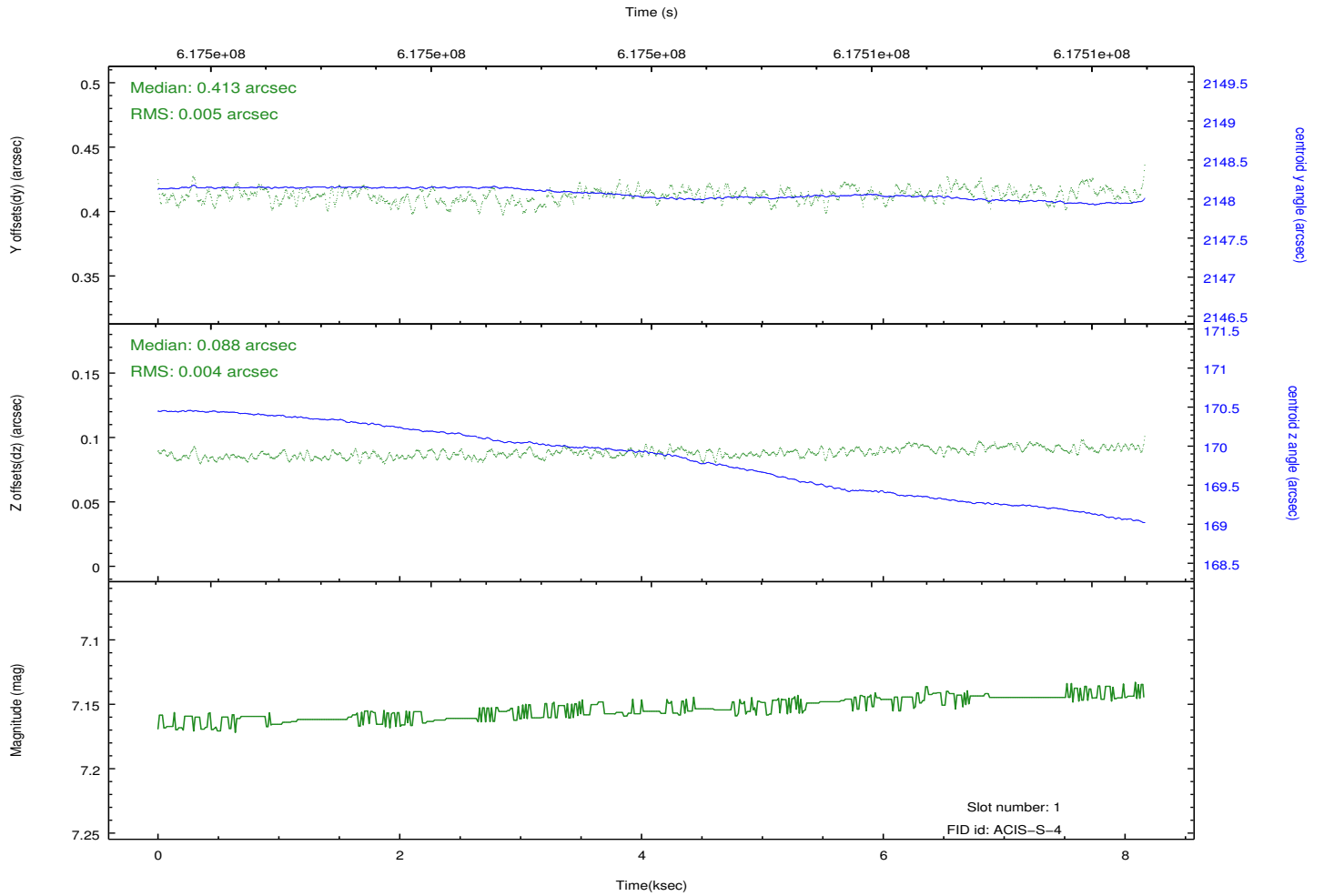
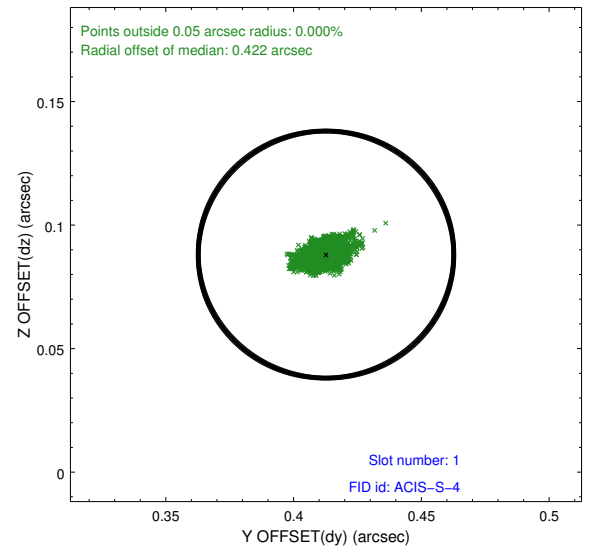
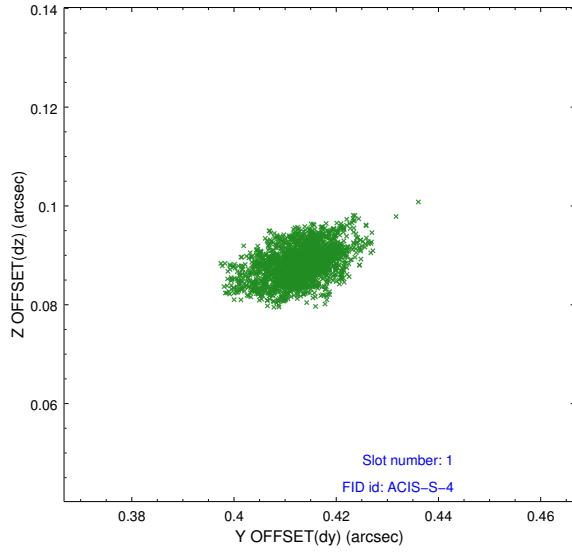


2.5 FID Slots

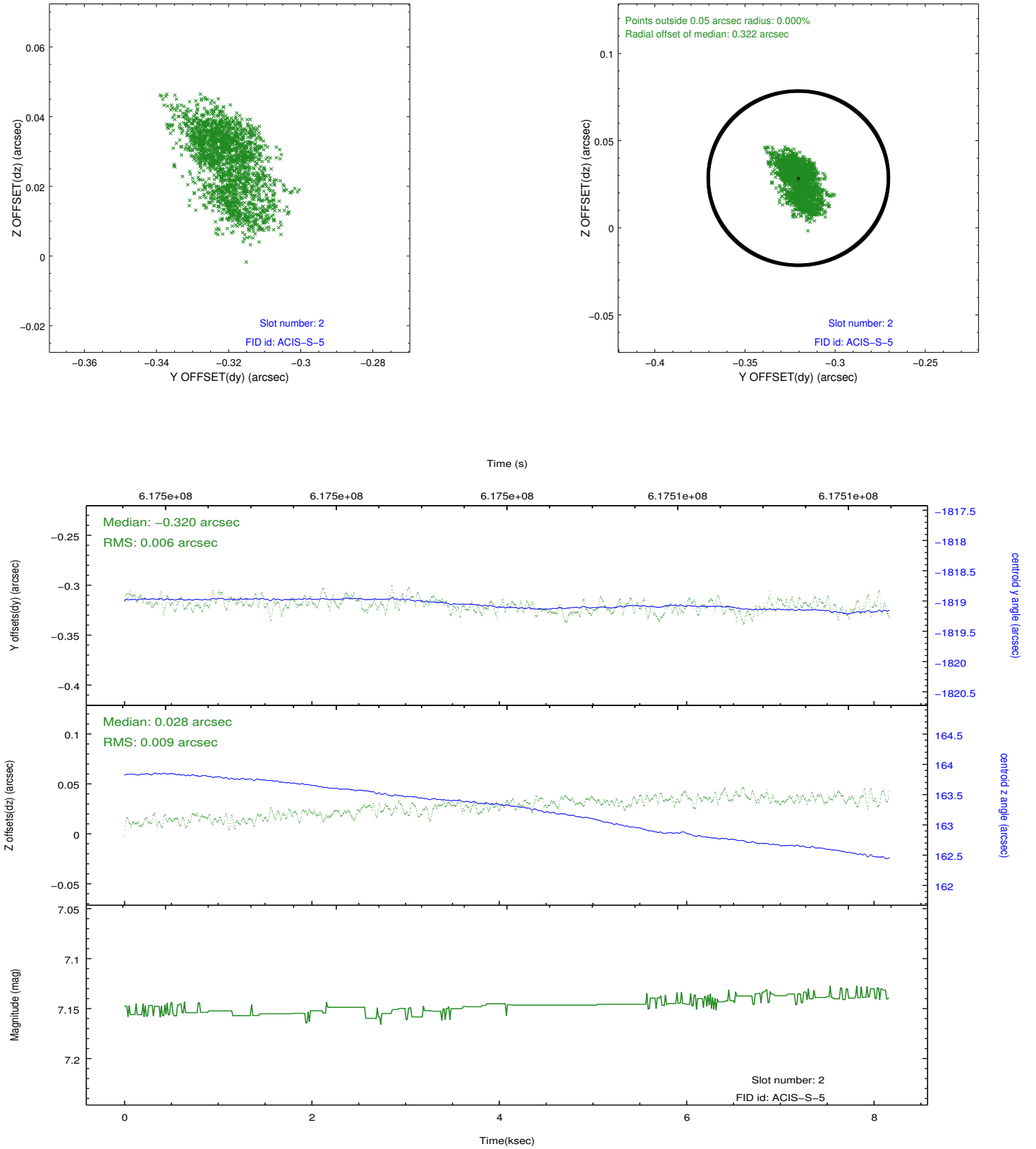
2.5.1 Slot 0



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)	2017.07.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0631000621319

A.2 Comments