

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20536 - L2 Version 1
Chandra X-Ray Center

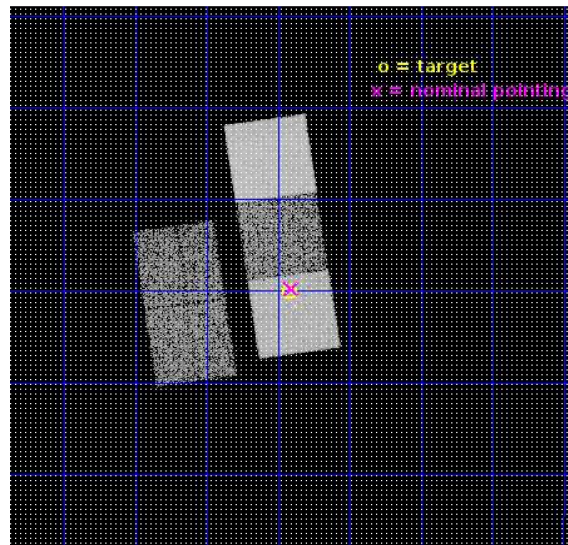
L2 Processing Date : Sep 25 2017

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1 Front

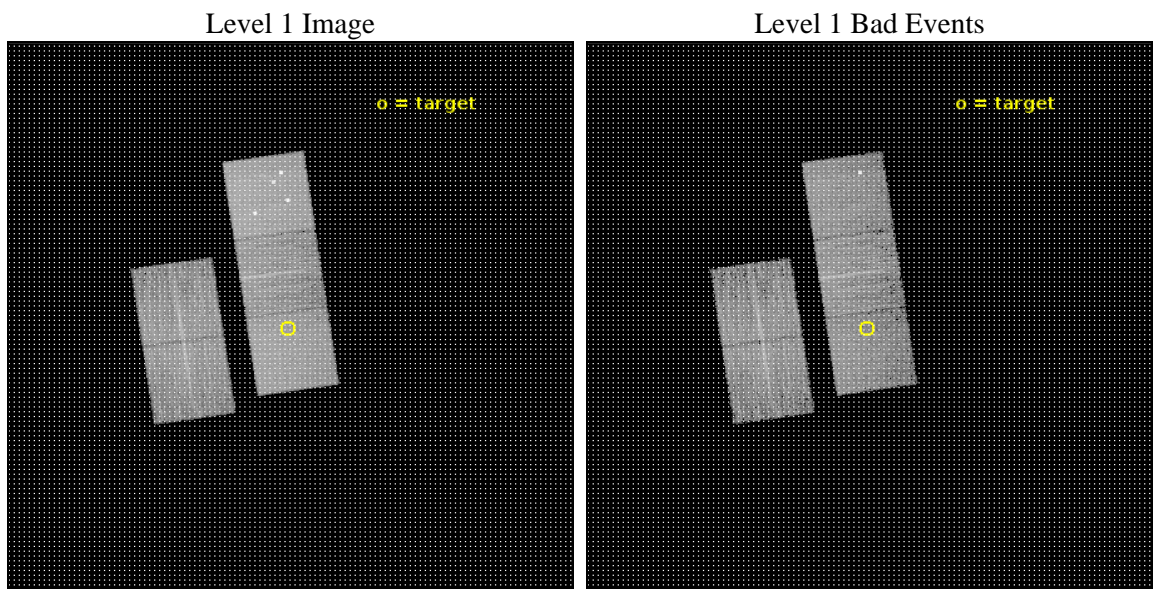
seq_num	801750	Sequence number
obs_id	20536	Observation id
title	Building a complete sample of $z>1$ XXL galaxy clusters	Proposal tit
observer	Ben Maughan	Principal investigator
object	XXL-N0282	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	33.355	Observer's specified target RA [deg]
dec_targ	-4.334	Observer's specified target Dec [deg]
ra_nom	33.351136444307	Nominal RA [deg]
dec_nom	-4.329159611933	Nominal Dec [deg]
roll_nom	81.67594616934	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10055.480596423	Sum of GTIs [s]
livetime	9924.0983396938	Livetime [s]
ontime2	10055.31643641	Sum of GTIs [s]
ontime3	10055.357476473	Sum of GTIs [s]
ontime5	10055.439556479	Sum of GTIs [s]
ontime6	10055.398516417	Sum of GTIs [s]
ontime7	10055.480596423	Sum of GTIs [s]
l2events	102236	Number of level 2 events



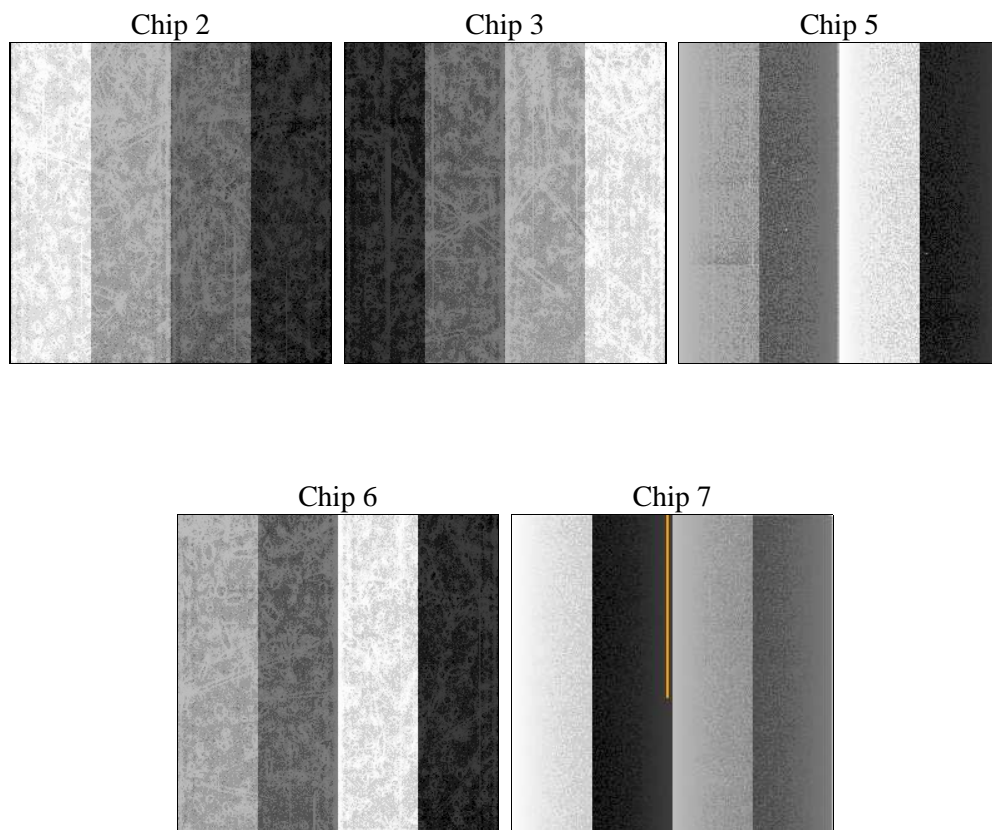
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	10055.480596423	Sum of GTIs [s]
caldbver	4.7.6	 	ontime2	10055.31643641	Sum of GTIs [s]
date	2017-09-25T14:04:04	Date and time of file creation	ontime3	10055.357476473	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	10055.439556479	Sum of GTIs [s]
			ontime6	10055.398516417	Sum of GTIs [s]
			ontime7	10055.480596423	Sum of GTIs [s]
			l1events	389601	Number of level 1 events

2.1.4 Events

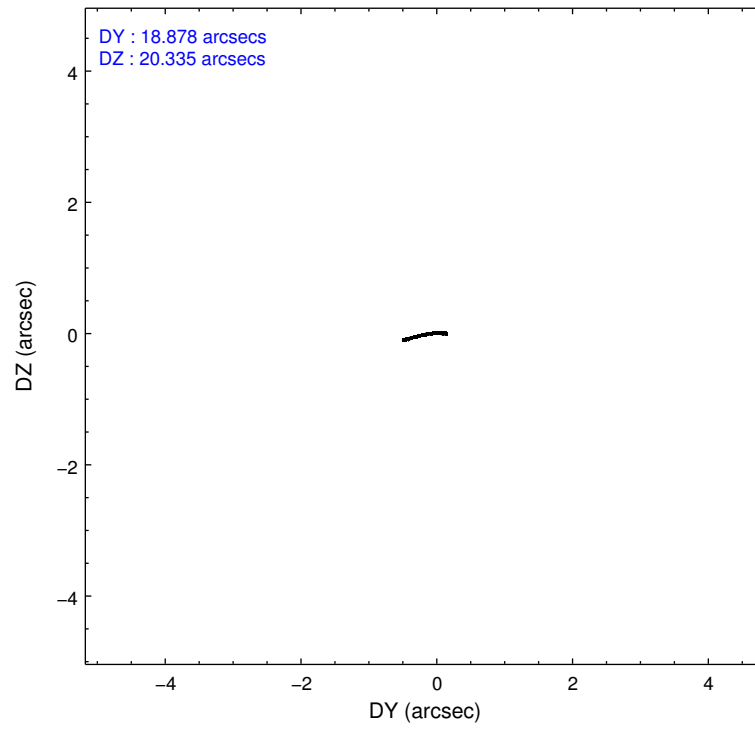
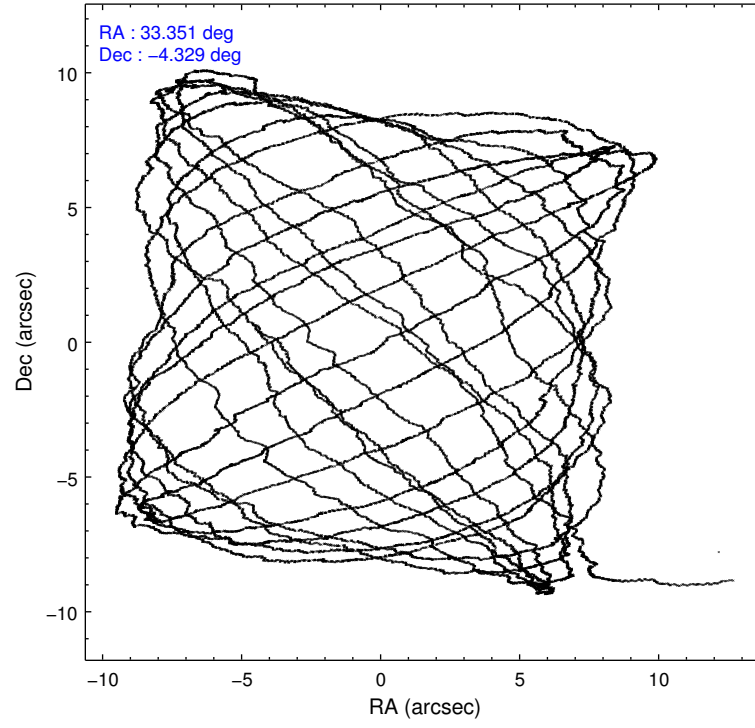
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	63220	61197	114664	65524	84996
rejected events	55974	54440	57303	58064	48049
rejected %	88%	88%	49%	88%	56%

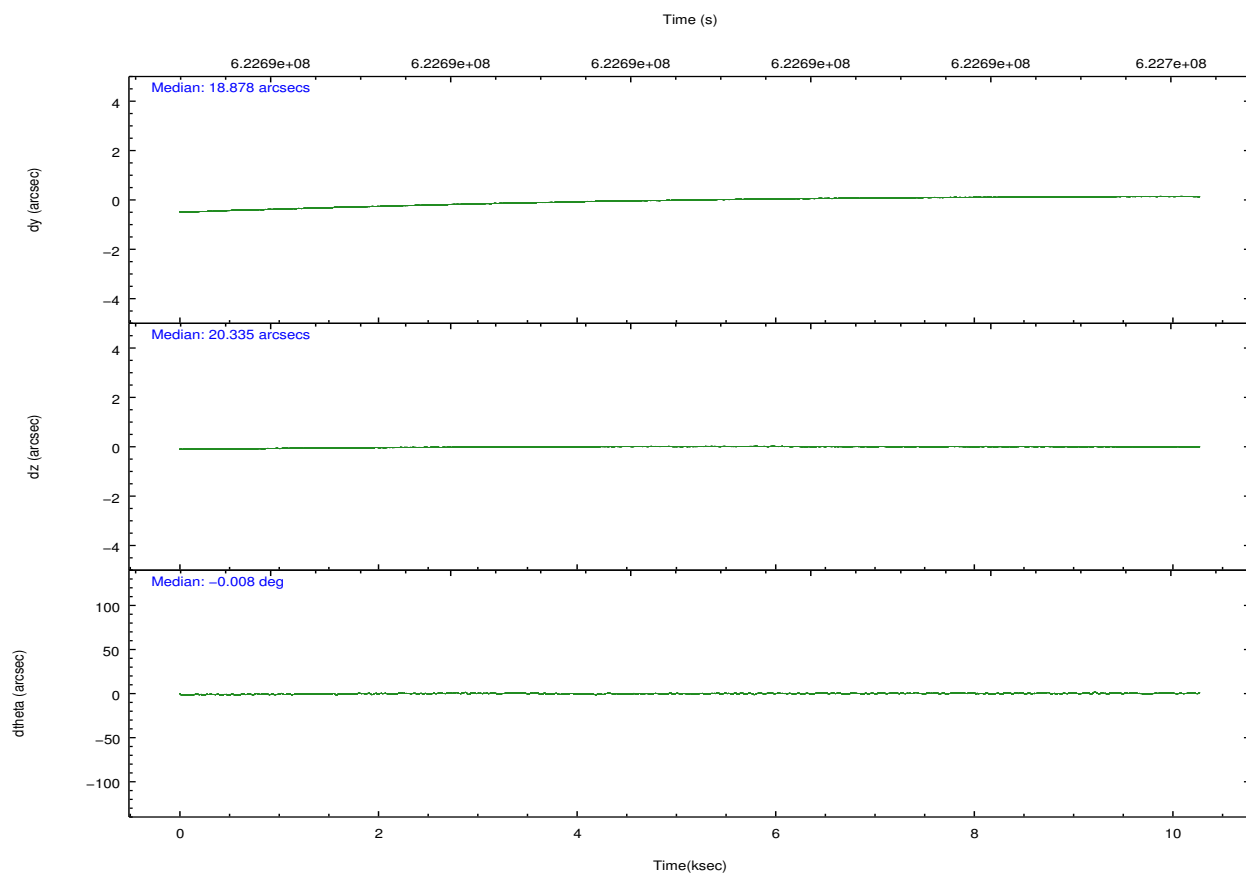
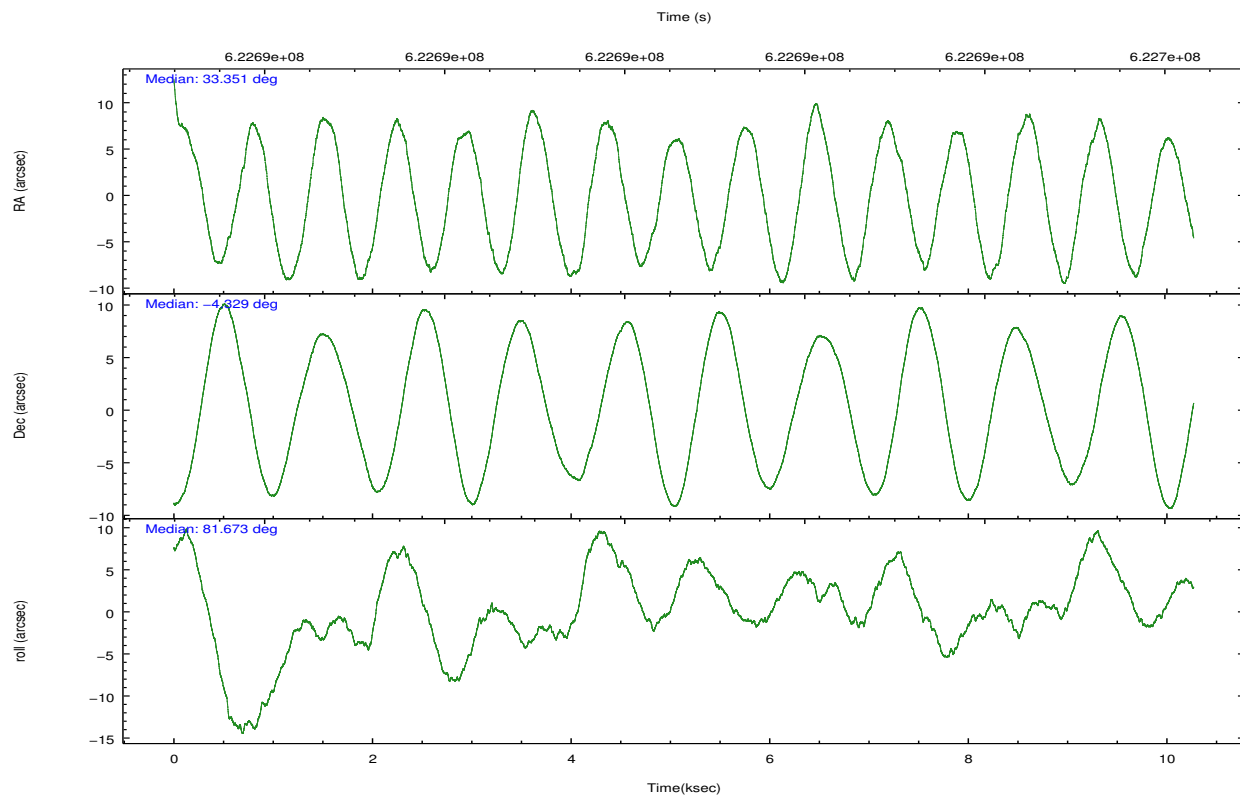
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	2485	2351	10404	2455	3153
	3%	3%	9%	3%	3%
grade 1 events	35	43	231	38	106
	0%	0%	0%	0%	0%
grade 2 events	1870	1524	16290	1748	7795
	2%	2%	14%	2%	9%
grade 3 events	778	730	1533	776	2974
	1%	1%	1%	1%	3%
grade 4 events	743	741	1459	723	2917
	1%	1%	1%	1%	3%
grade 5 events	2737	3147	7311	3261	8500
	4%	5%	6%	4%	10%
grade 6 events	1383	1415	27712	1762	20137
	2%	2%	24%	2%	23%
grade 7 events	53189	51246	49724	54761	39414
	84%	83%	43%	83%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	33.361621	33.3511364443068	CCD I2 on	O1	Y
[deg] Pointing Dec	-4.354481	-4.329159611932995	CCD I3 on	Y	Y
[deg] Pointing Roll	81.520113	81.67594616934046	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	622685794.184000	622684795.66785	CCD S5 on	N	N
Observation start date	2017-09-25T00:15:25	2017-09-24T23:59:55	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	622695794.184000	622696499.63104	On-chip summing requested	N	N
Observation end date	2017-09-25T03:02:05	2017-09-25T03:14:59	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



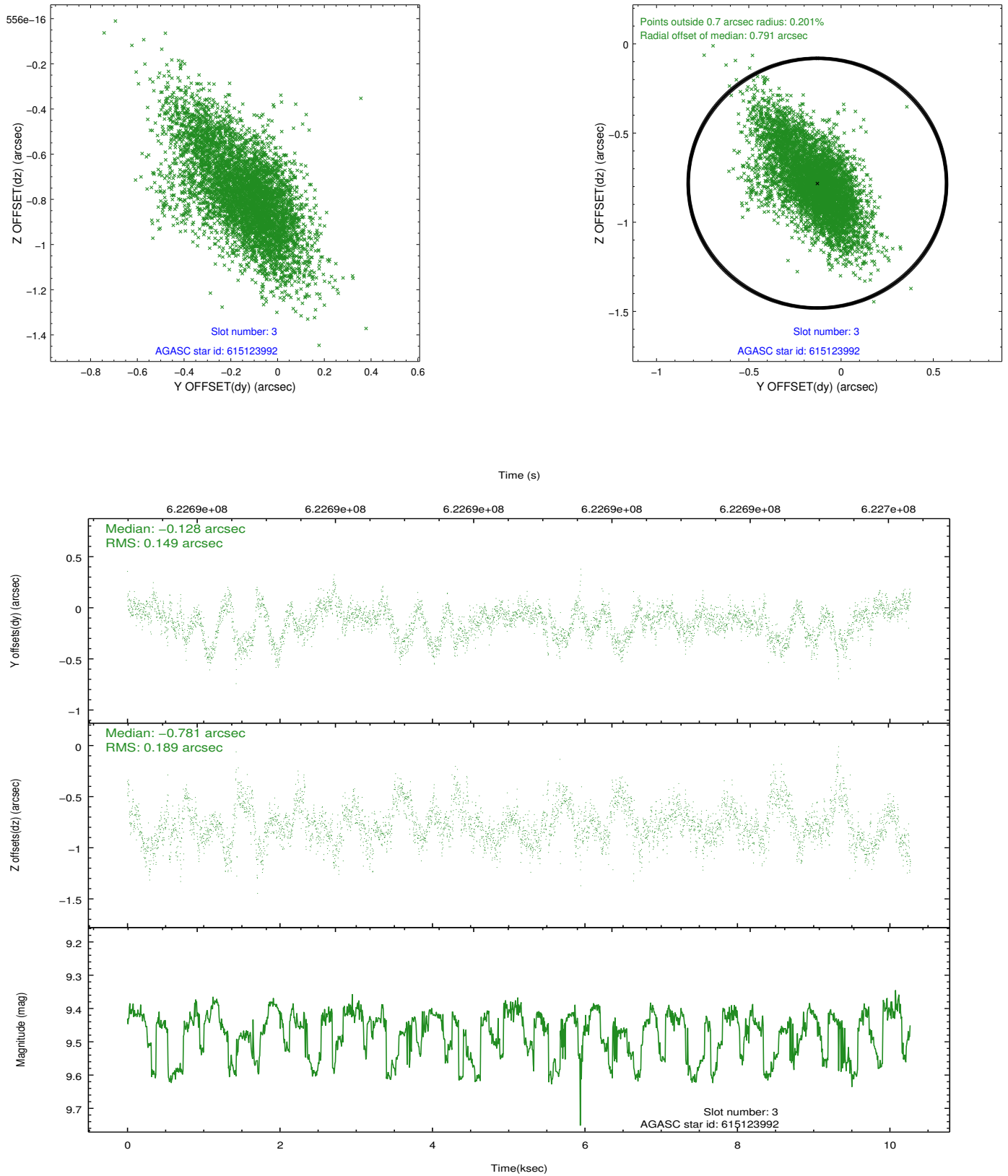


Slot Statistics

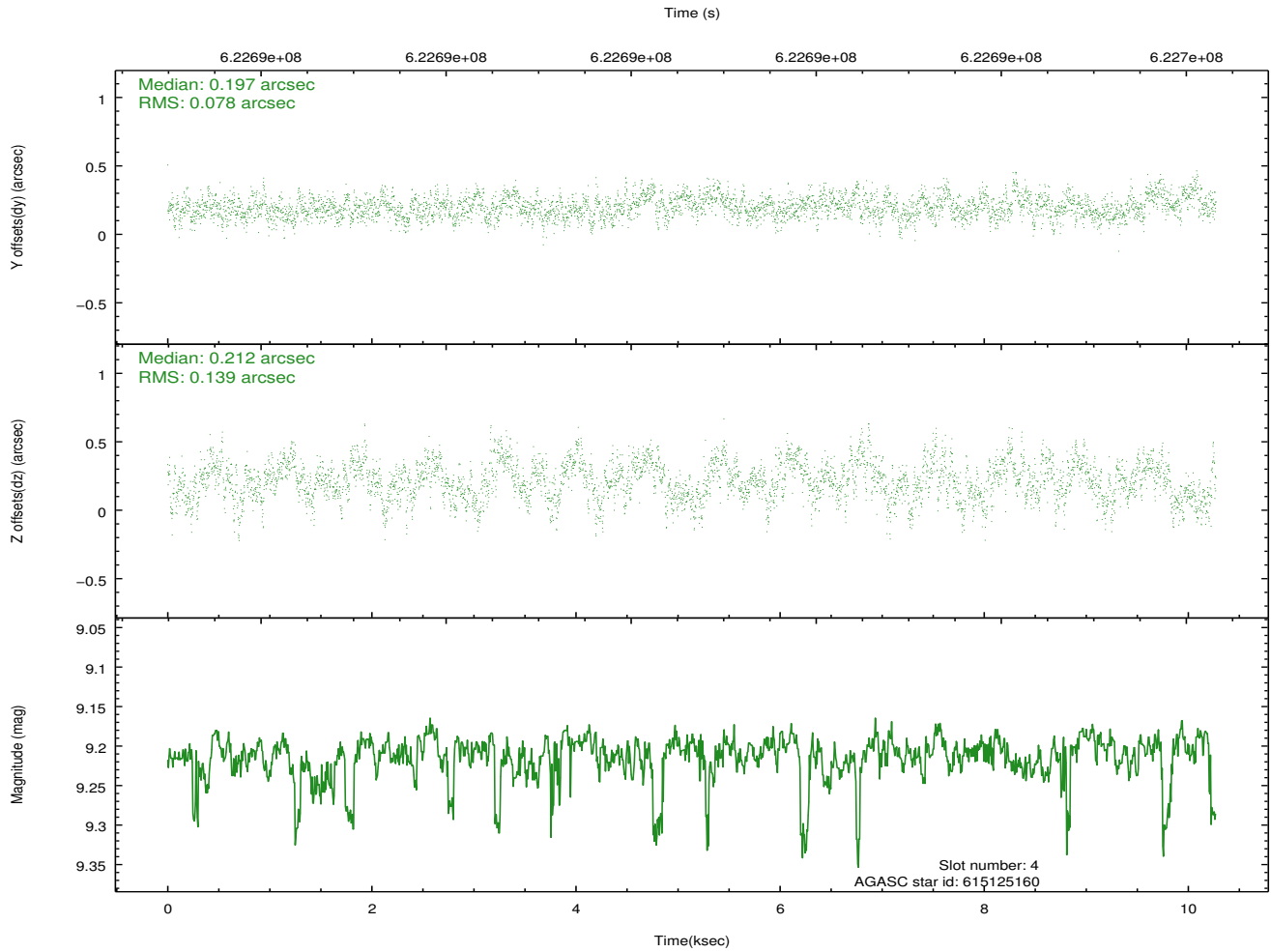
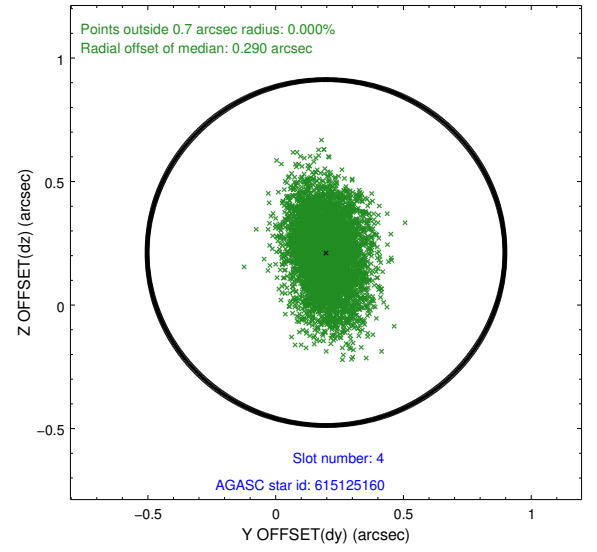
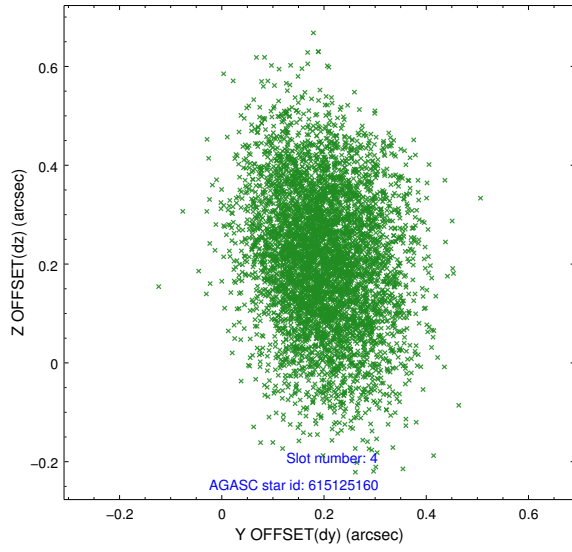
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.12	2505	0.153	-0.109	0.010	0.018	0.000000	0.000000	924.37	-1737.55
1	FID		ACIS-S-5	7.14	2505	-0.361	0.057	0.008	0.013	0.000000	0.000000	-1824.93	159.54
2	FID		ACIS-S-6	7.29	2505	0.187	0.064	0.009	0.013	0.000000	0.000000	389.30	804.17
3	GUIDE	used	615123992	9.46	4987	-0.128	-0.781	0.248	0.443	32.774884	-4.605132	-1204.03	1949.09
4	GUIDE	used	615125160	9.21	5007	0.197	0.212	0.166	0.283	33.500170	-4.866158	-1748.38	-762.45
5	GUIDE	used	615125456	9.41	5001	-0.221	-0.307	0.182	0.308	32.972477	-4.364293	-241.83	1375.19
6	GUIDE	used	615126128	8.25	5009	-0.184	0.040	0.178	0.287	34.026050	-3.868420	2081.82	-2101.90
7	GUIDE	used	615521912	9.99	4999	0.345	0.808	0.278	0.441	33.894278	-5.067192	-2255.58	-2267.03

2.4 Star Slots

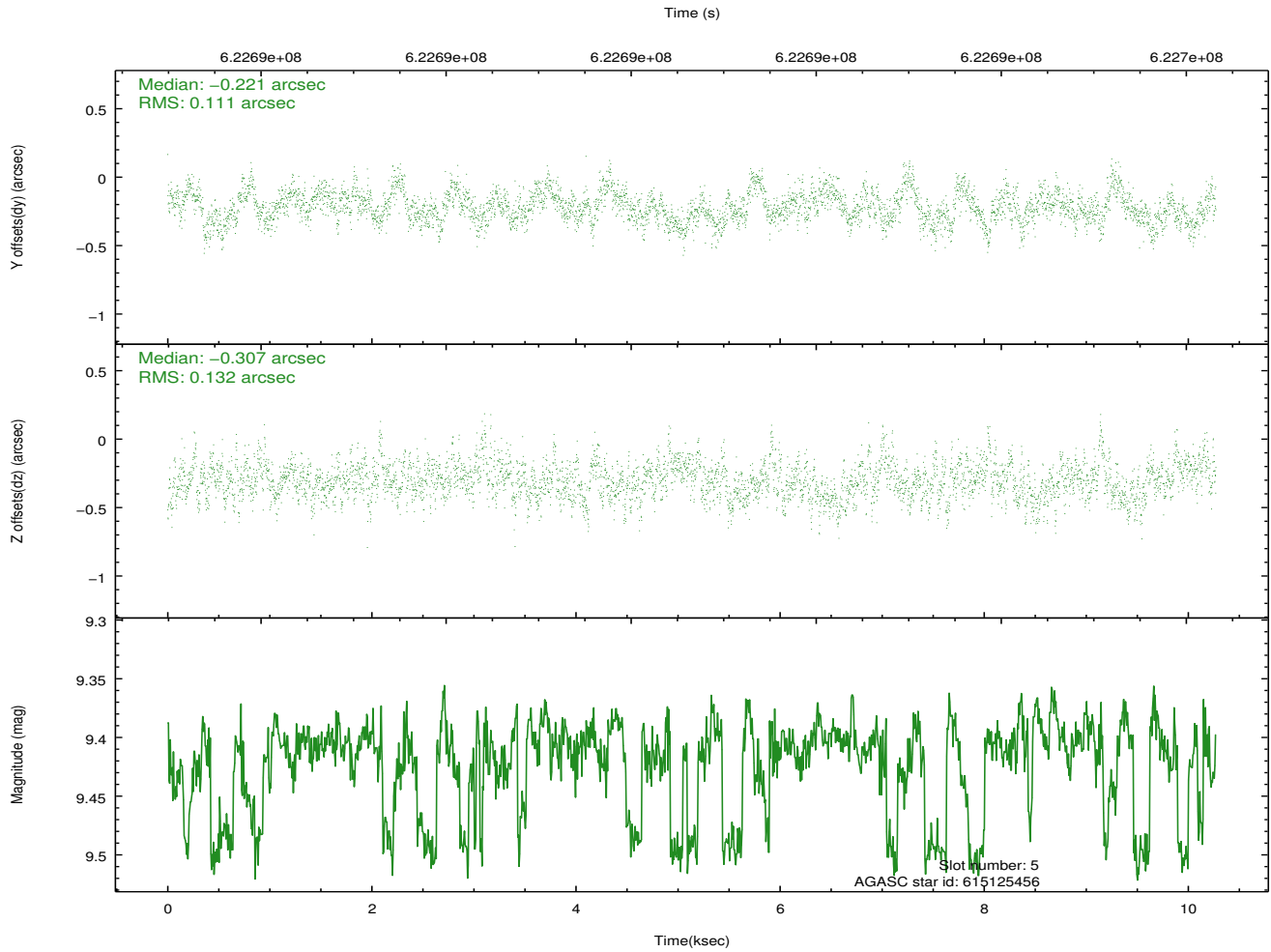
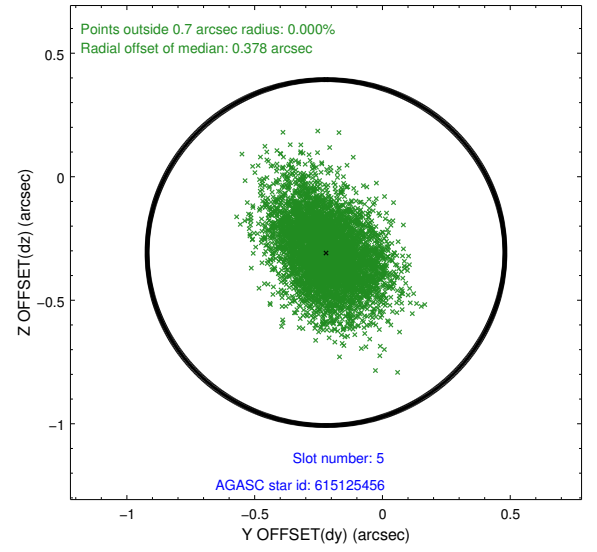
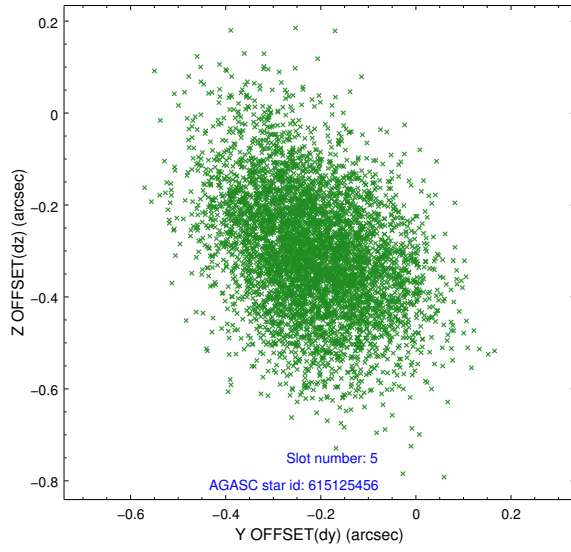
2.4.1 Slot 3



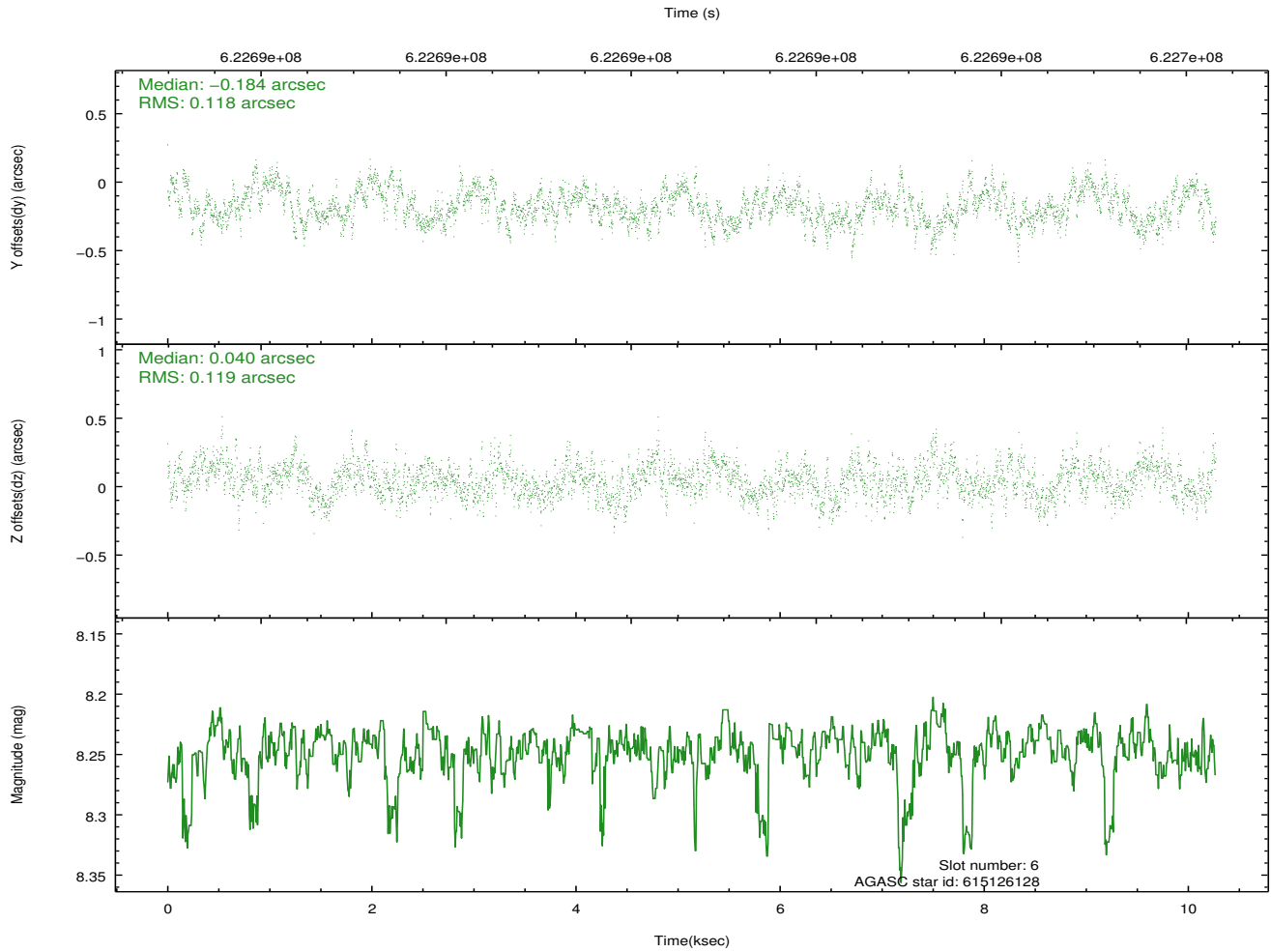
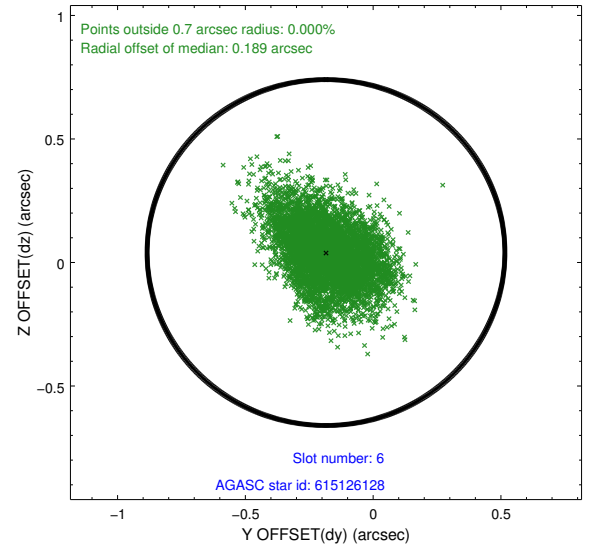
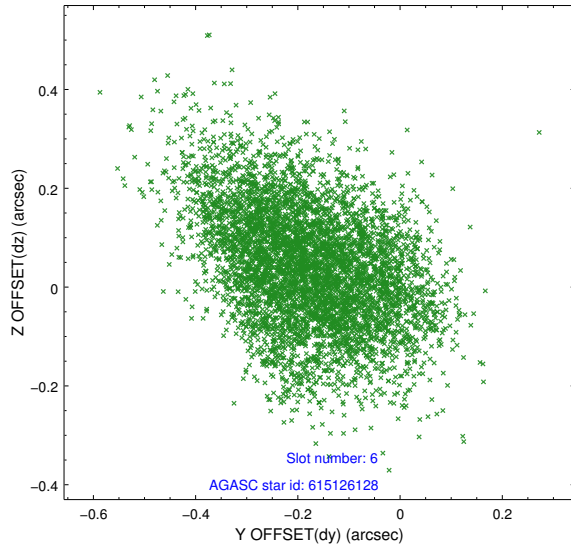
2.4.2 Slot 4



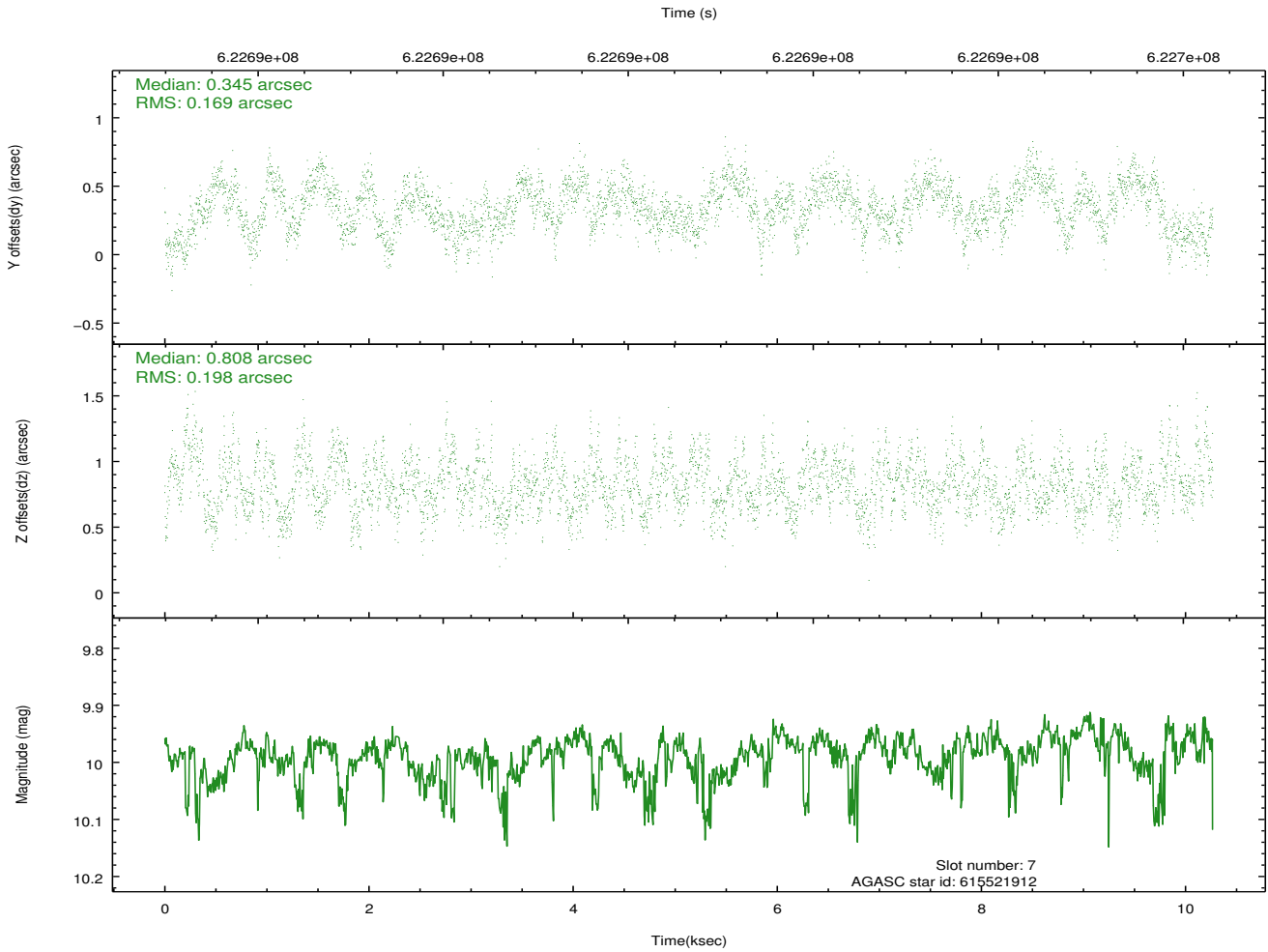
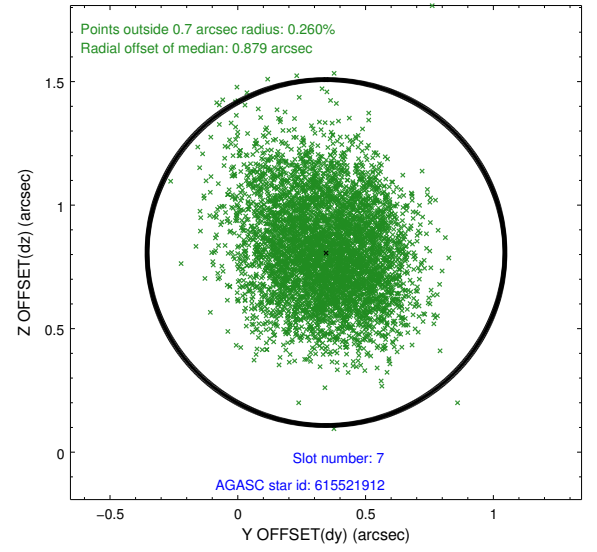
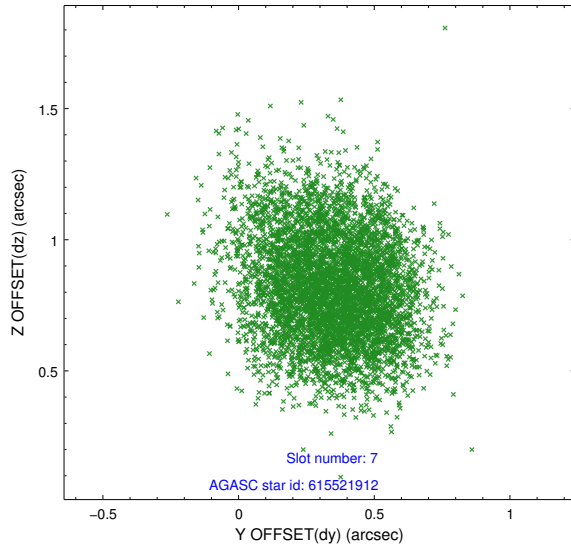
2.4.3 Slot 5



2.4.4 Slot 6

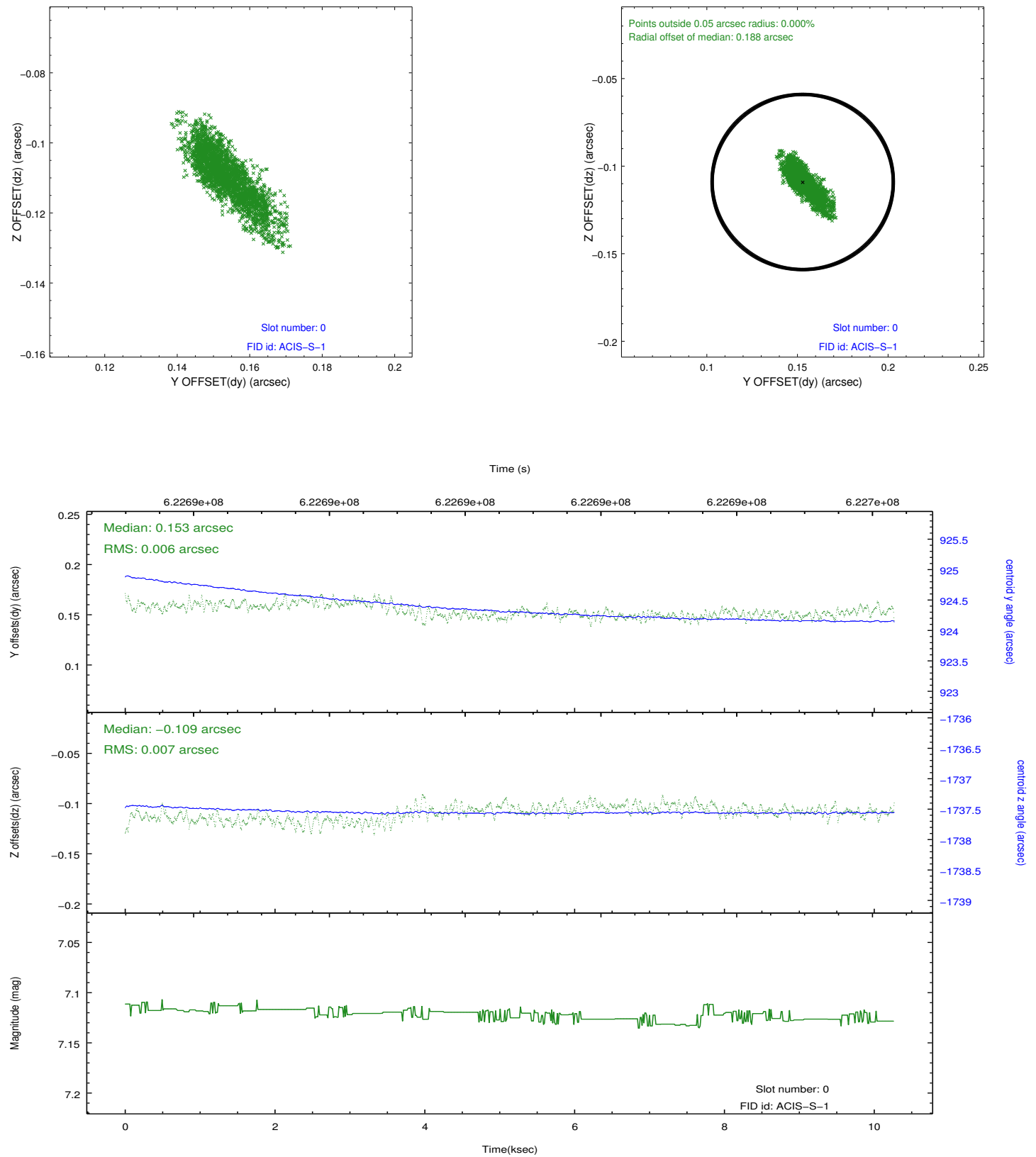


2.4.5 Slot 7

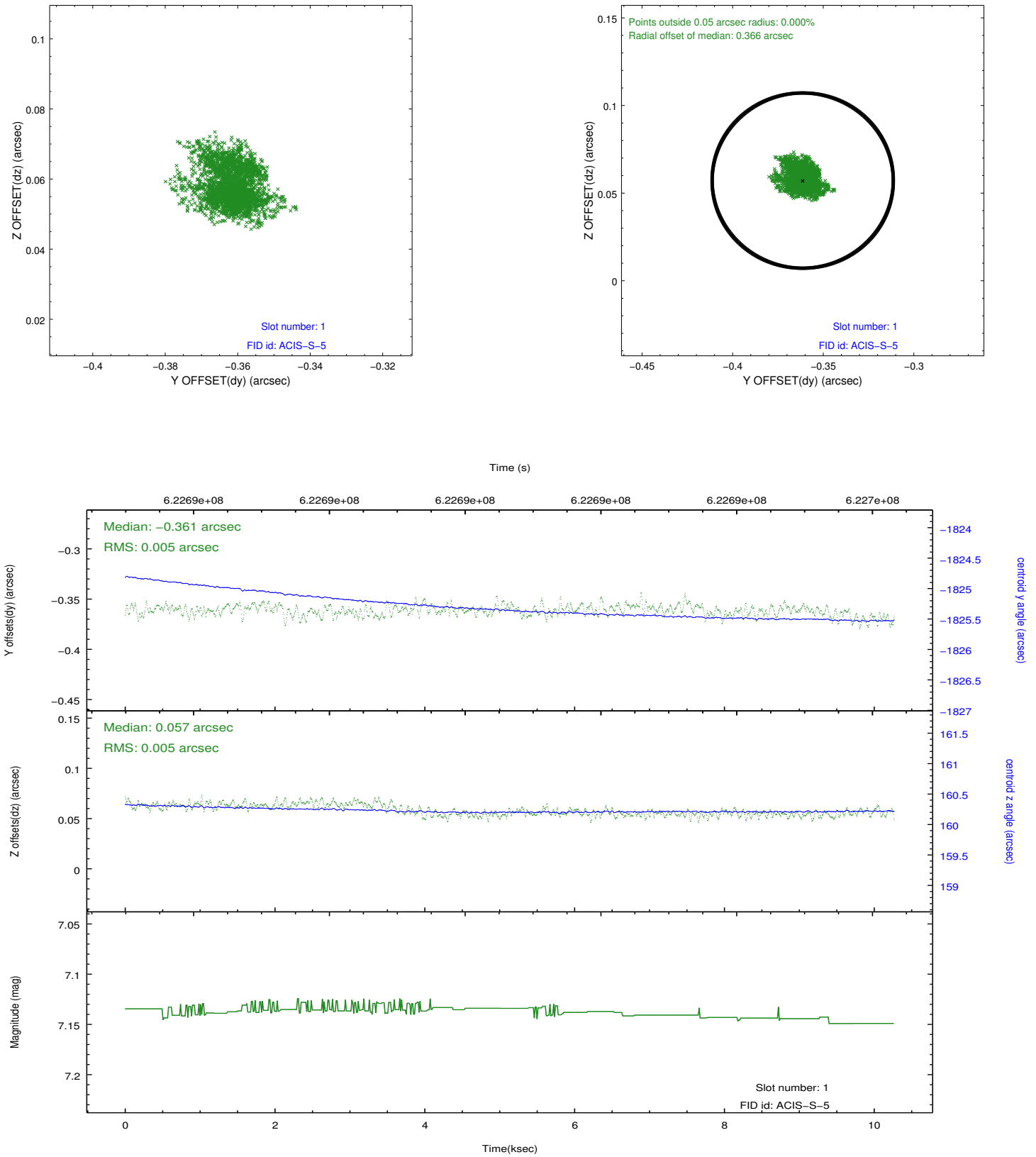


2.5 FID Slots

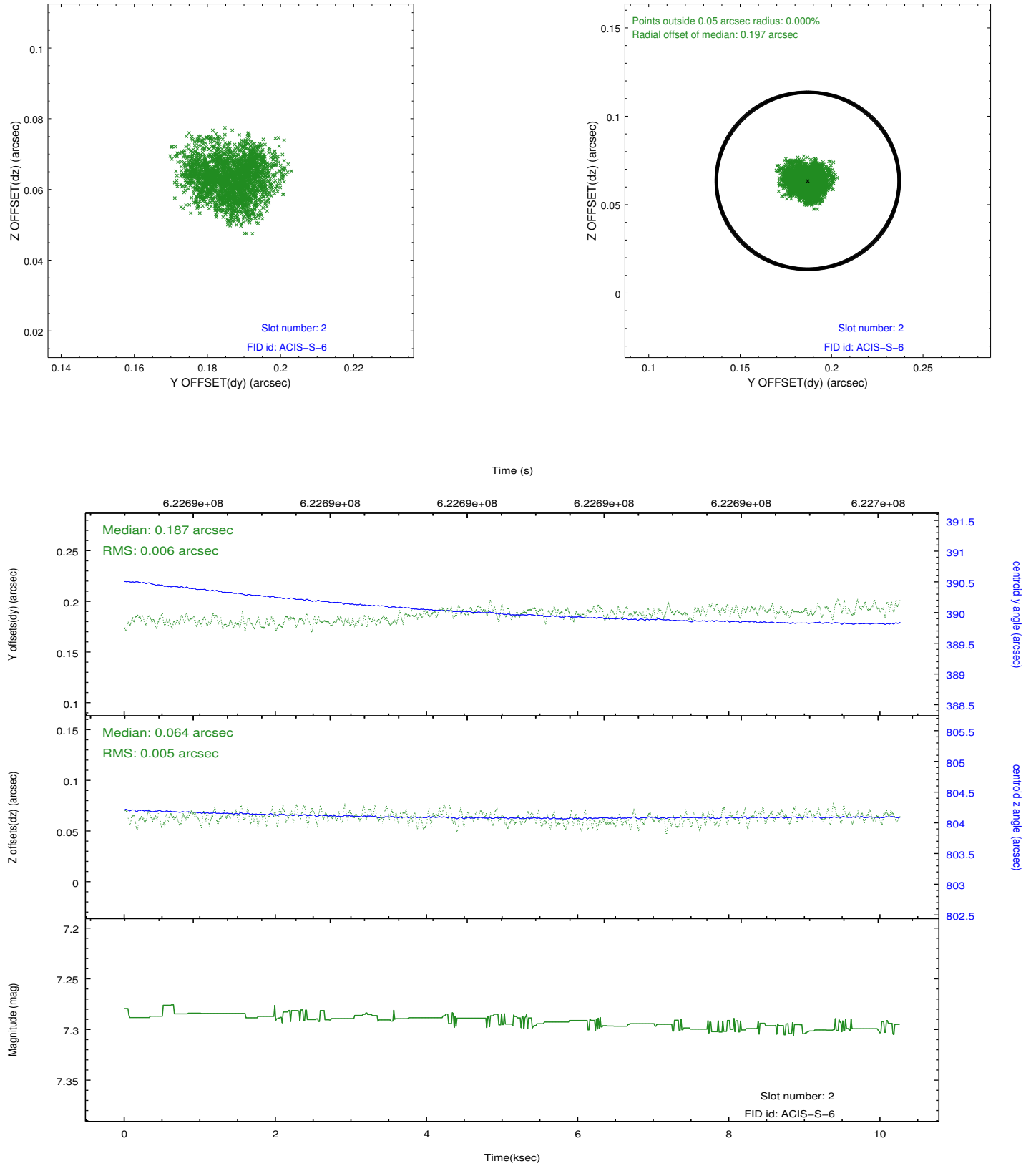
2.5.1 Slot 0



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)	2017.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.055480596423

A.2 Comments