

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 19895 - L2 Version 1
Chandra X-Ray Center

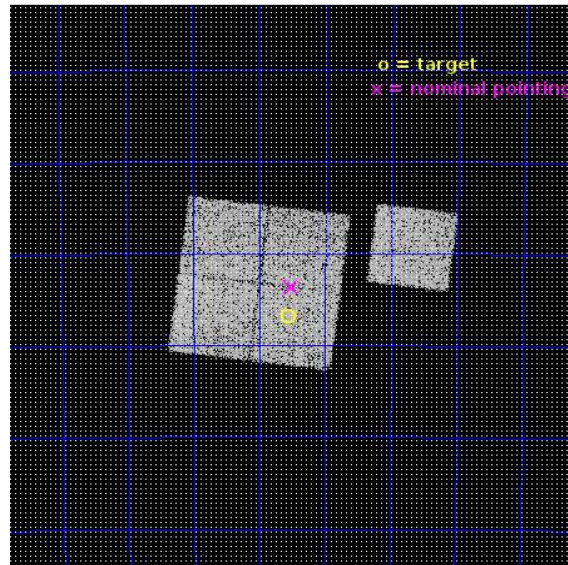
L2 Processing Date : Oct 8 2016

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1 Front

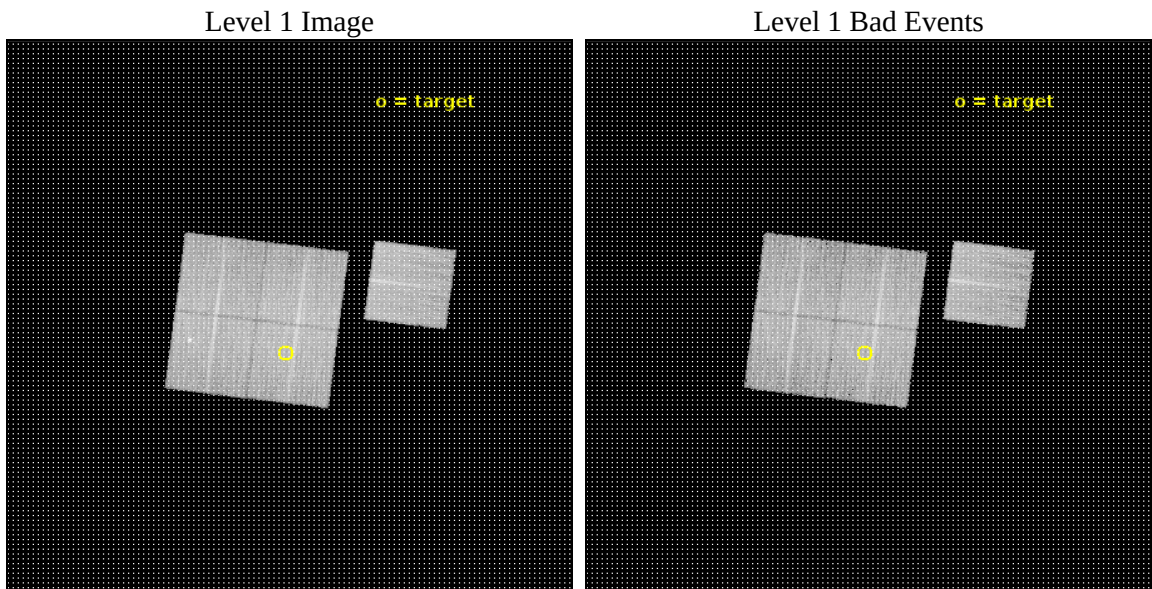
seq_num	801619	Sequence number
obs_id	19895	Observation id
title	The SPT High-z Cluster Survey: Probing the ICM During the Onset of Cooling	Proposal title
observer	Gordon Garmire	Principal investigator
object	SPT-CLJ0646-6236	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	101.639167	Observer's specified target RA [deg]
dec_targ	-62.613611	Observer's specified target Dec [deg]
ra_nom	101.62801587912	Nominal RA [deg]
dec_nom	-62.56051508368	Nominal Dec [deg]
roll_nom	97.198774845924	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15037.194533467	Sum of GTIs [s]
livetime	14840.722516666	Livetime [s]
ontime0	15040.212413907	Sum of GTIs [s]
ontime1	15043.39447403	Sum of GTIs [s]
ontime2	15043.435514092	Sum of GTIs [s]
ontime3	15037.194533467	Sum of GTIs [s]
ontime6	15043.312394023	Sum of GTIs [s]
l2events	47250	Number of level 2 events



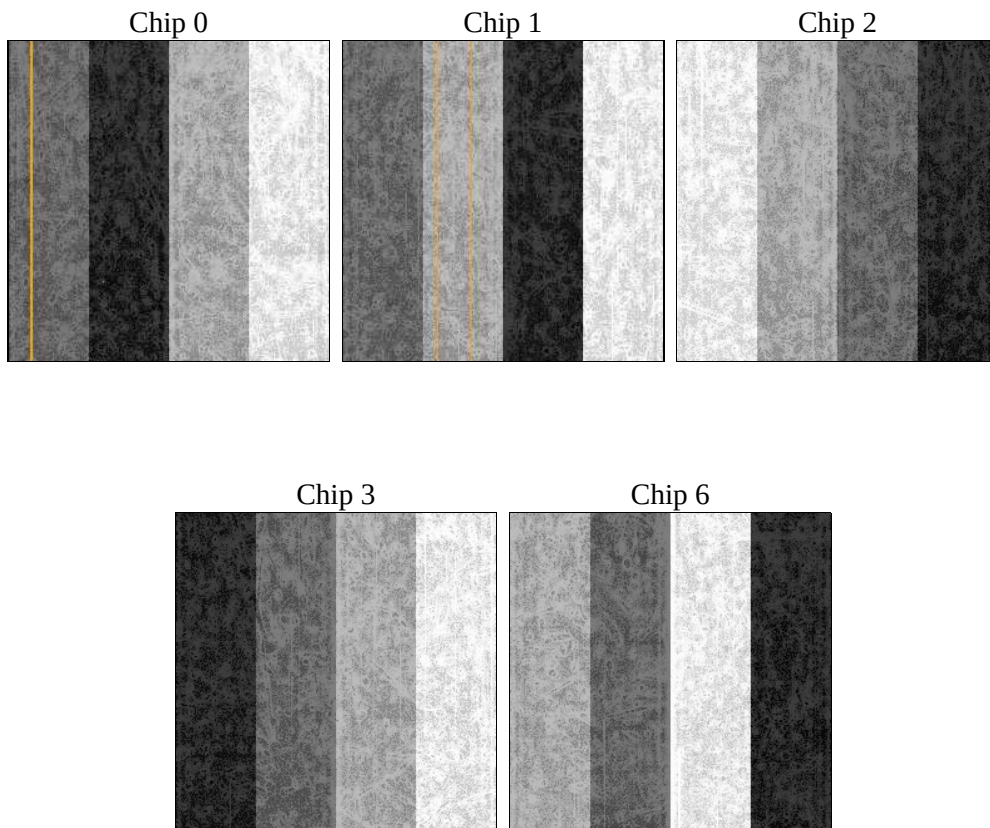
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	15037.194533467	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	15040.212413907	Sum of GTIs [s]
date	2016-10-08T11:32:18	Date and time of file creation	ontime1	15043.39447403	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	15043.435514092	Sum of GTIs [s]
			ontime3	15037.194533467	Sum of GTIs [s]
			ontime6	15043.312394023	Sum of GTIs [s]
			l1events	492272	Number of level 1 events

2.1.4 Events

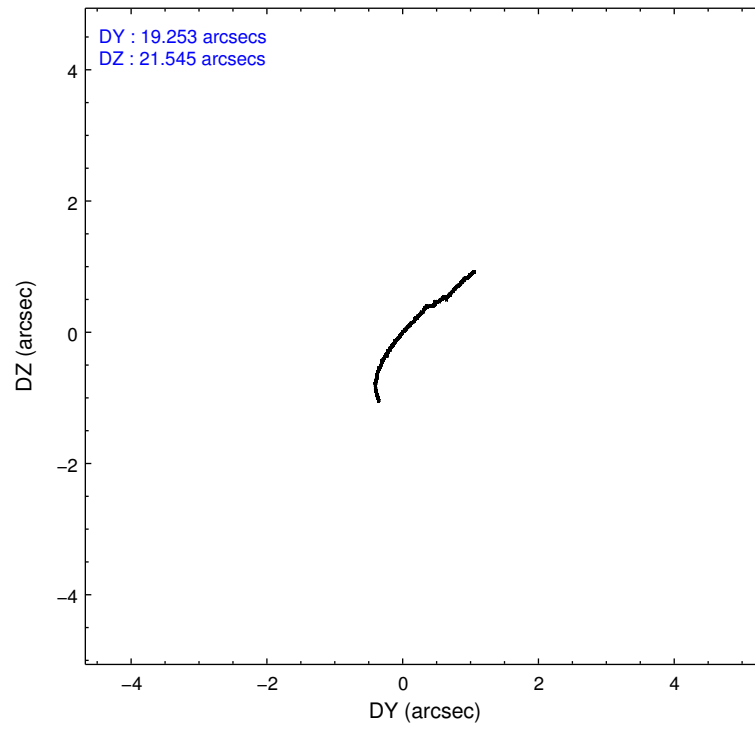
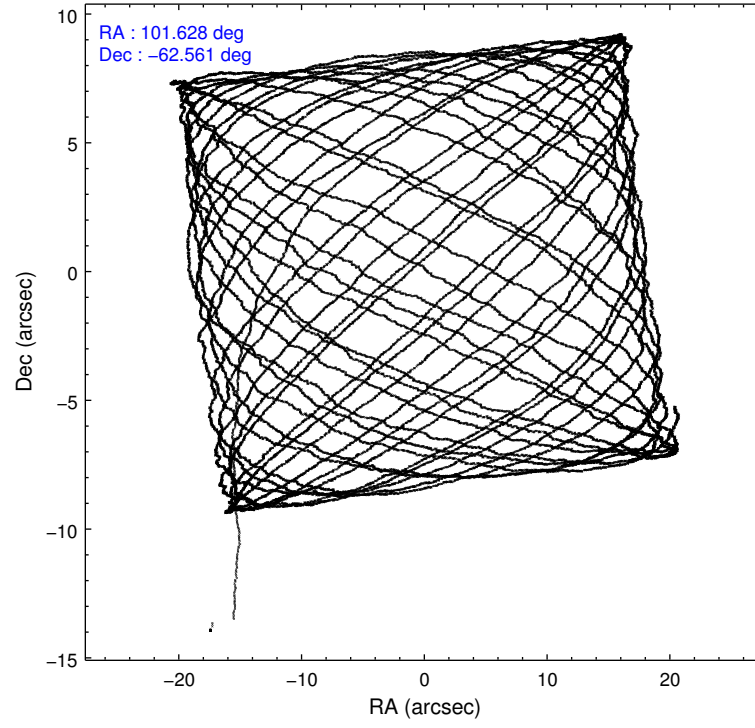
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	90511	96211	101688	100797	103065
rejected events	79654	82579	91072	90000	91693
rejected %	88%	85%	89%	89%	88%

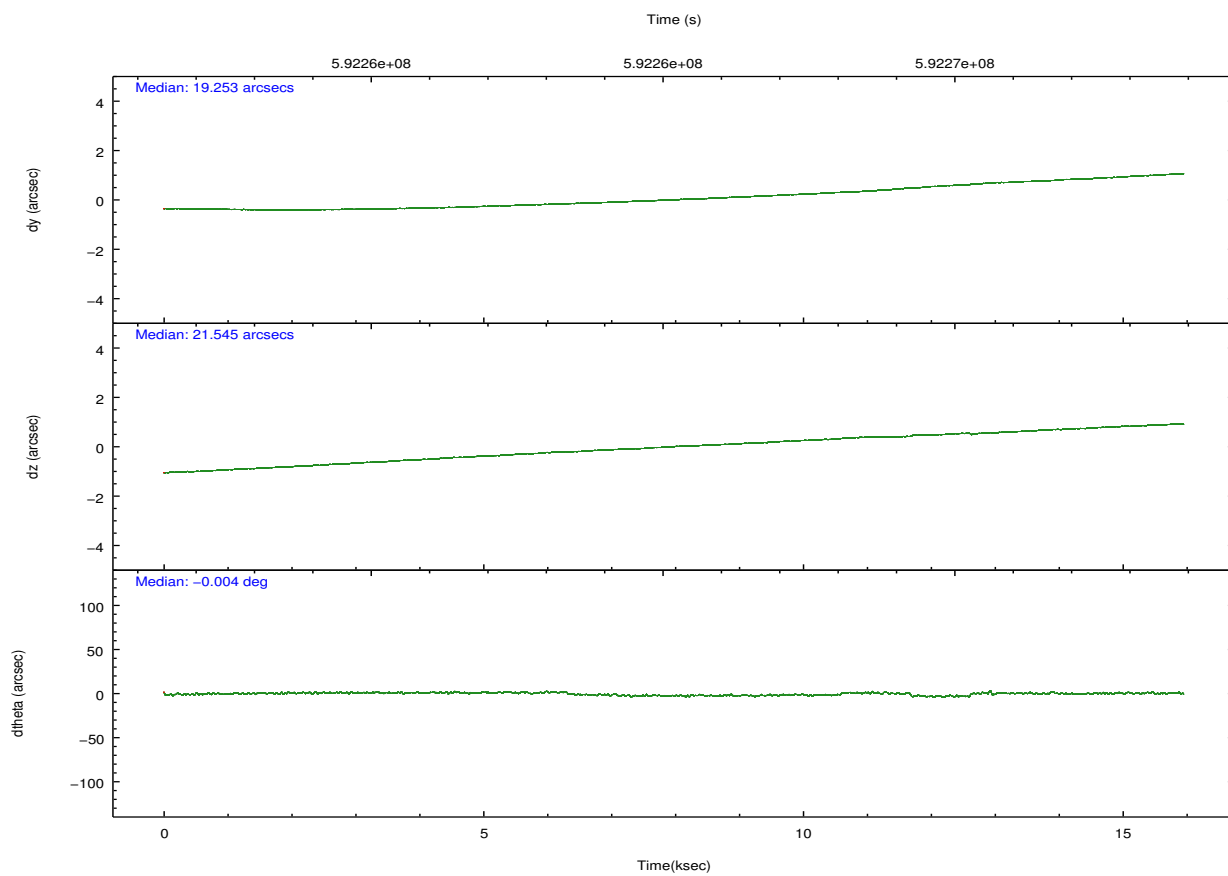
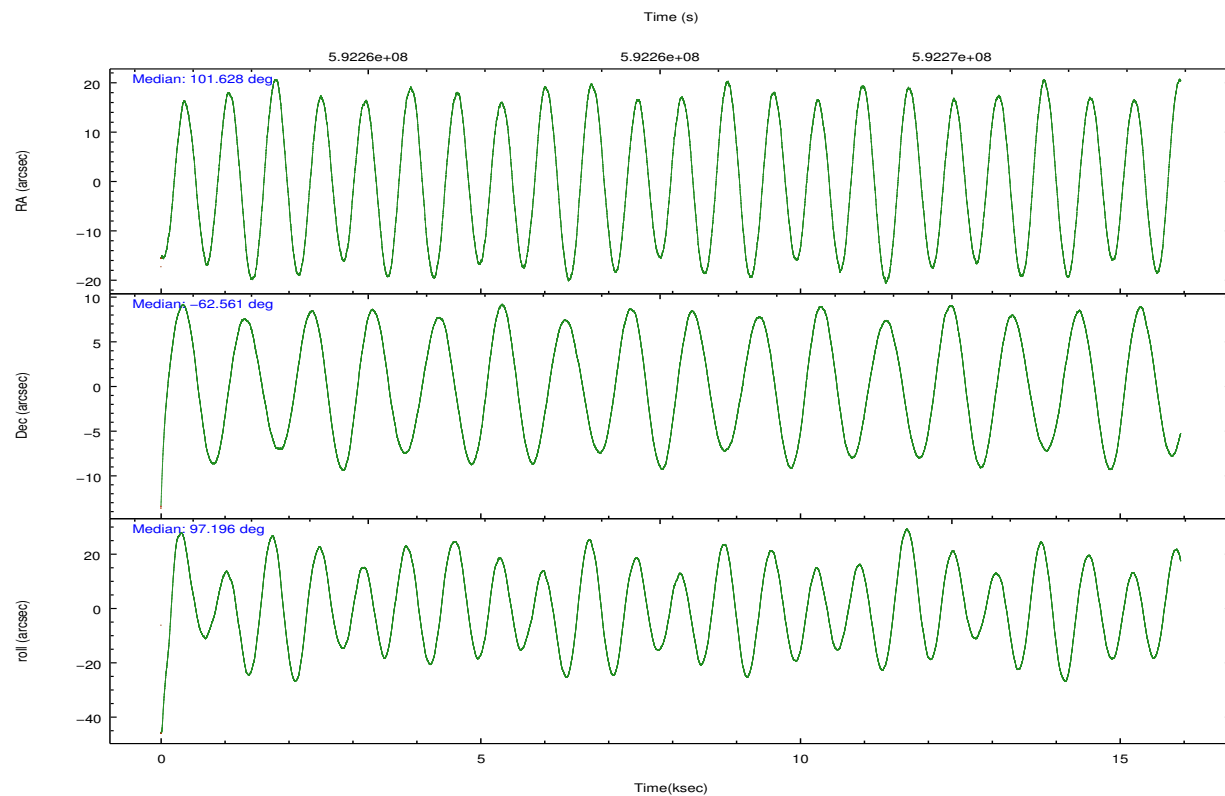
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3642	5356	3650	3869	3633
	4%	5%	3%	3%	3%
grade 1 events	41	73	60	72	48
	0%	0%	0%	0%	0%
grade 2 events	2720	3177	2657	2298	2672
	3%	3%	2%	2%	2%
grade 3 events	1139	1154	1101	1187	1154
	1%	1%	1%	1%	1%
grade 4 events	1061	1154	1119	1134	1137
	1%	1%	1%	1%	1%
grade 5 events	4283	4403	4153	4903	4745
	4%	4%	4%	4%	4%
grade 6 events	2303	2795	2093	2310	2783
	2%	2%	2%	2%	2%
grade 7 events	75322	78099	86855	85024	86893
	83%	81%	85%	84%	84%

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	101.664426	101.6280158791194	CCD I2 on	Y	Y
[deg] Pointing Dec	-62.582432	-62.56051508368012	CCD I3 on	Y	Y
[deg] Pointing Roll	97.022417	97.19877484592386	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	-225.840463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.752	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	592258162.184000	592256386.1135	CCD S5 on	N	N
Observation start date	2016-10-07T20:08:14	2016-10-07T19:39:46	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	592273162.184000	592274437.90204	On-chip summing requested	N	N
Observation end date	2016-10-08T00:18:14	2016-10-08T00:40:37	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



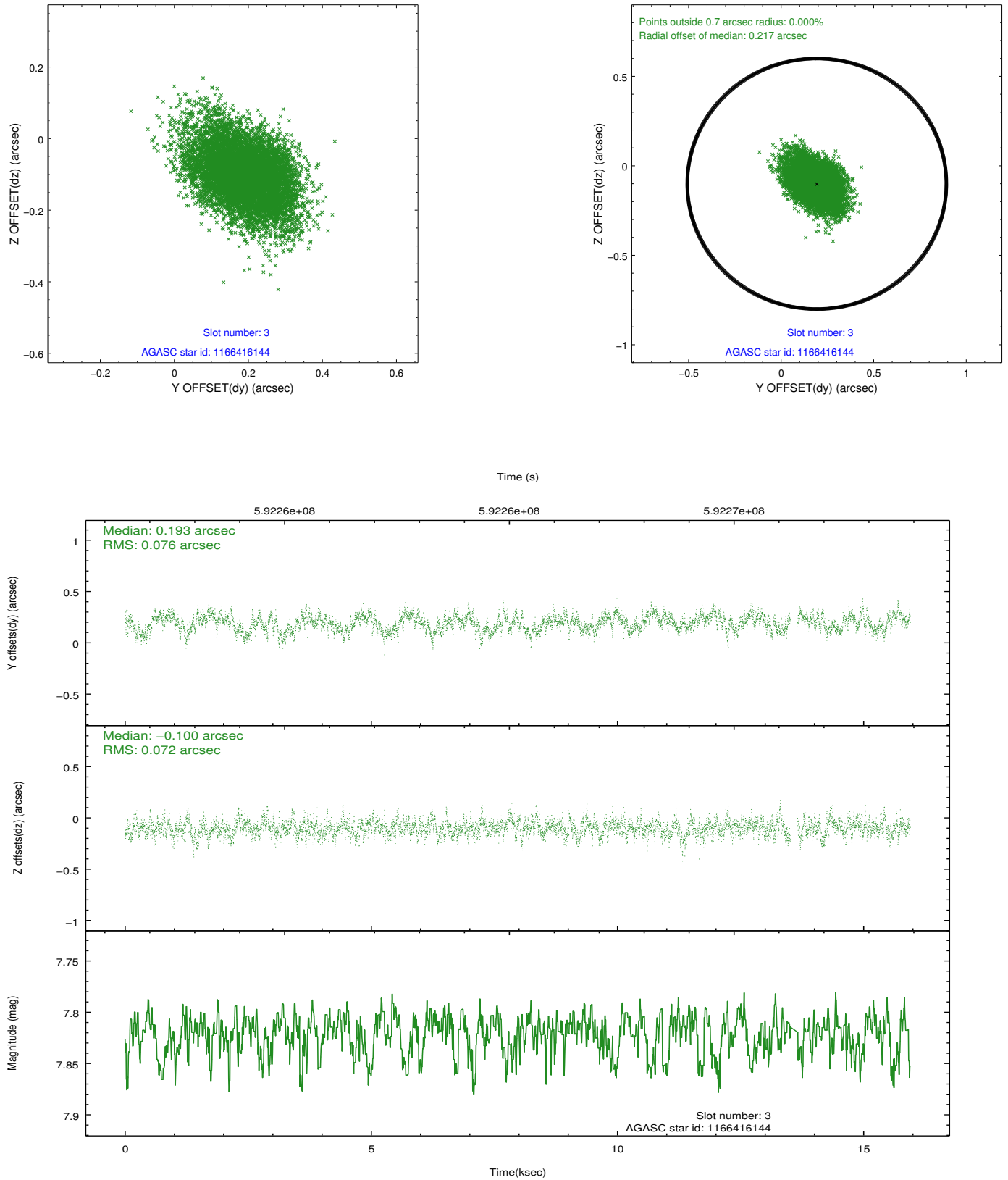


Slot Statistics

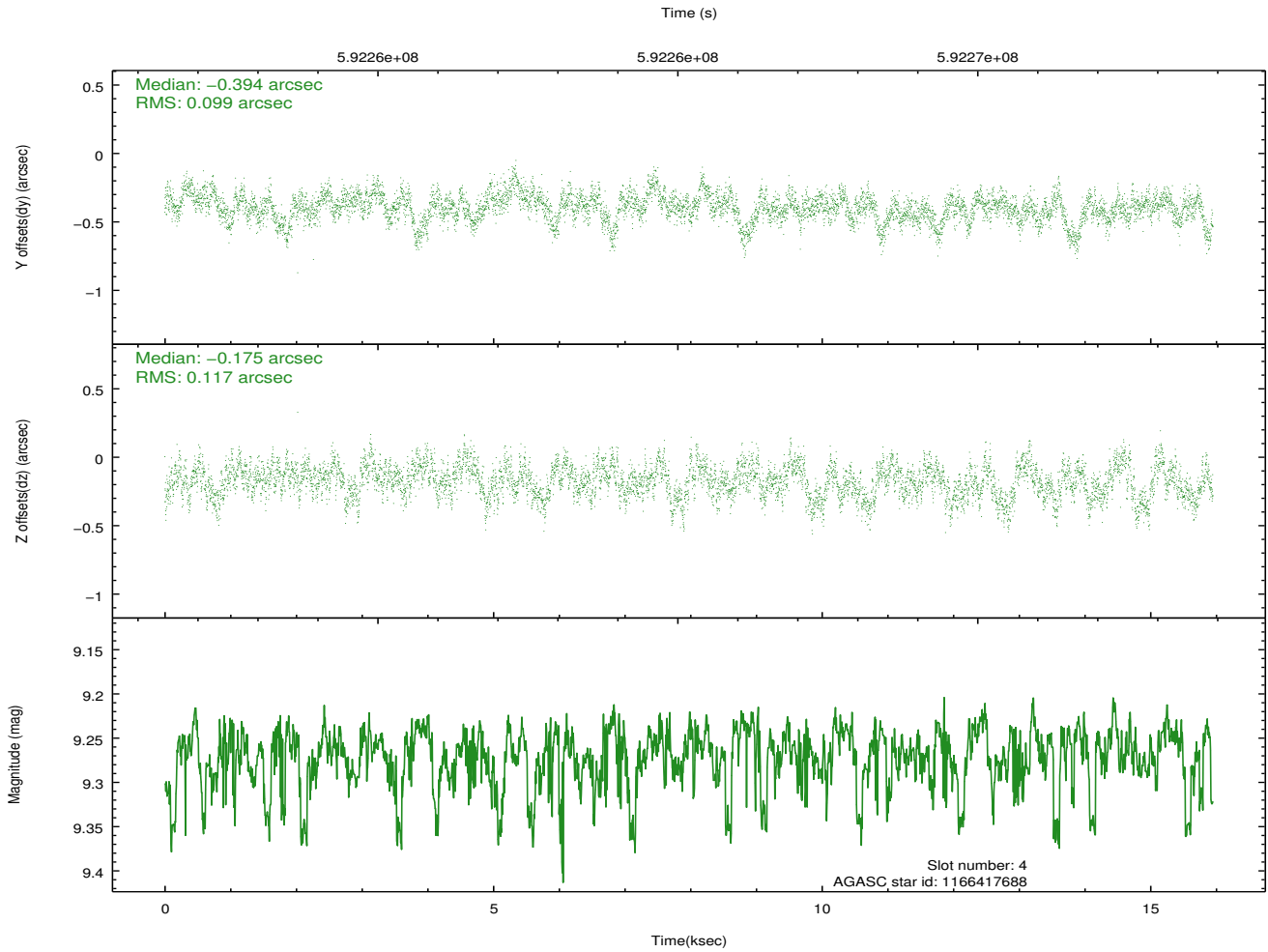
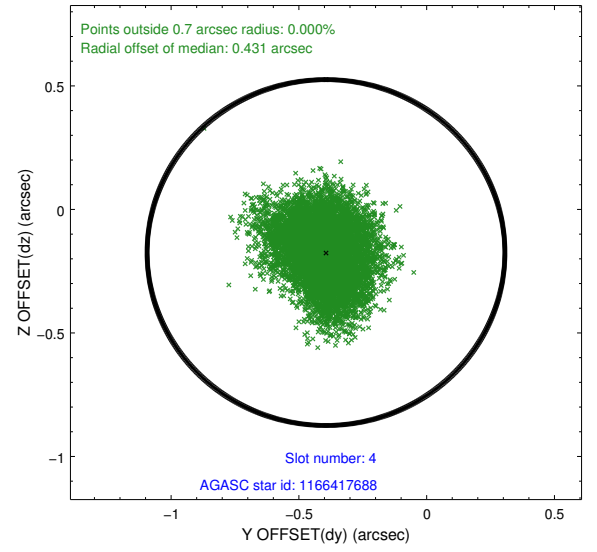
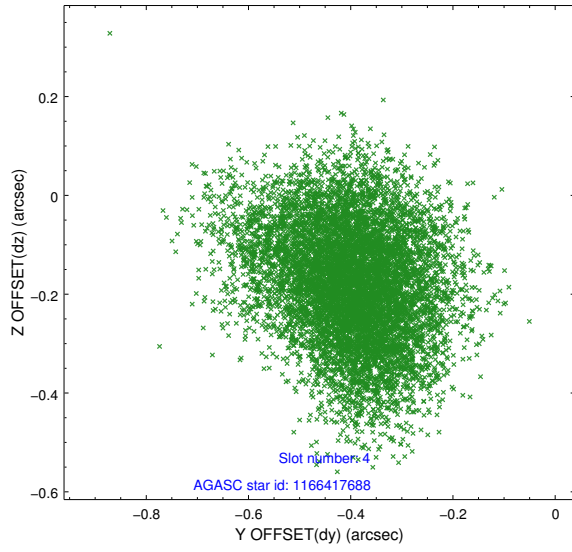
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.13	3889	-0.265	-0.099	0.022	0.062	0.000000	0.000000	-774.99	-1009.83
1	FID		ACIS-I-4	7.10	3890	0.474	0.164	0.013	0.023	0.000000	0.000000	2139.58	896.49
2	FID		ACIS-I-5	7.17	3890	-0.312	0.005	0.016	0.046	0.000000	0.000000	-1828.18	893.36
3	GUIDE	used	1166416144	7.82	7707	0.193	-0.100	0.109	0.185	100.820271	-63.136063	-1818.78	1607.75
4	GUIDE	used	1166417688	9.27	7772	-0.394	-0.175	0.165	0.263	100.877257	-62.098974	1881.14	1104.62
5	GUIDE	used	1166419408	9.14	7773	0.207	-0.018	0.197	0.321	102.511924	-61.984178	1953.89	-1684.15
6	GUIDE	used	1166419784	9.21	7772	-0.107	-0.183	0.232	0.366	100.702861	-62.895789	-938.14	1704.39
7	GUIDE	used	1166416048	9.61	7747	0.104	0.462	0.199	0.328	102.769754	-63.047030	-1895.34	-1582.55

2.4 Star Slots

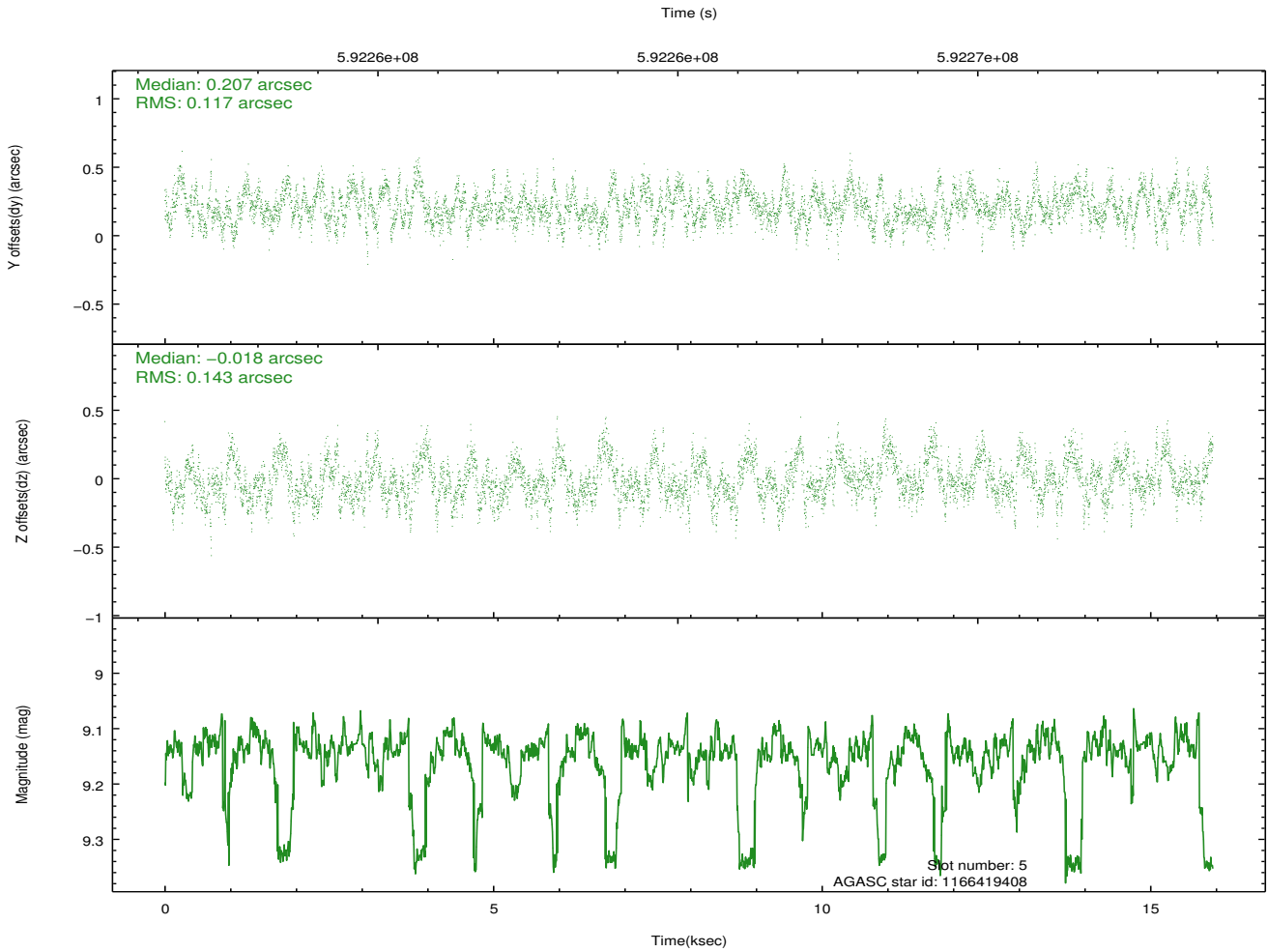
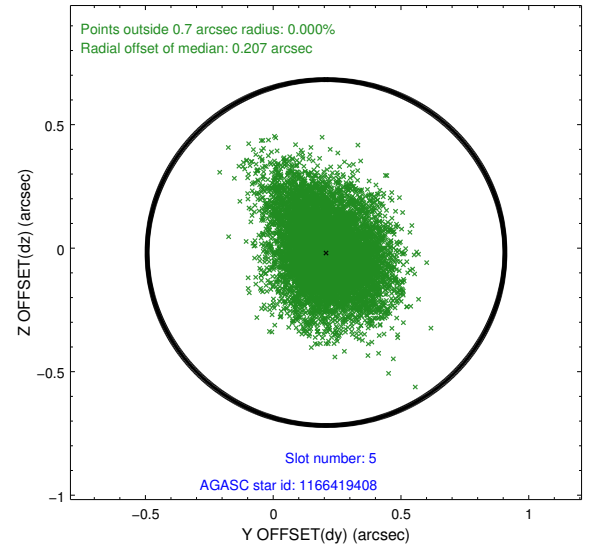
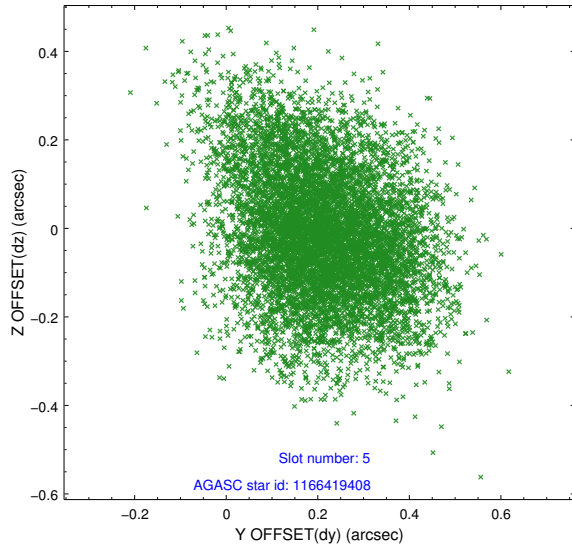
2.4.1 Slot 3



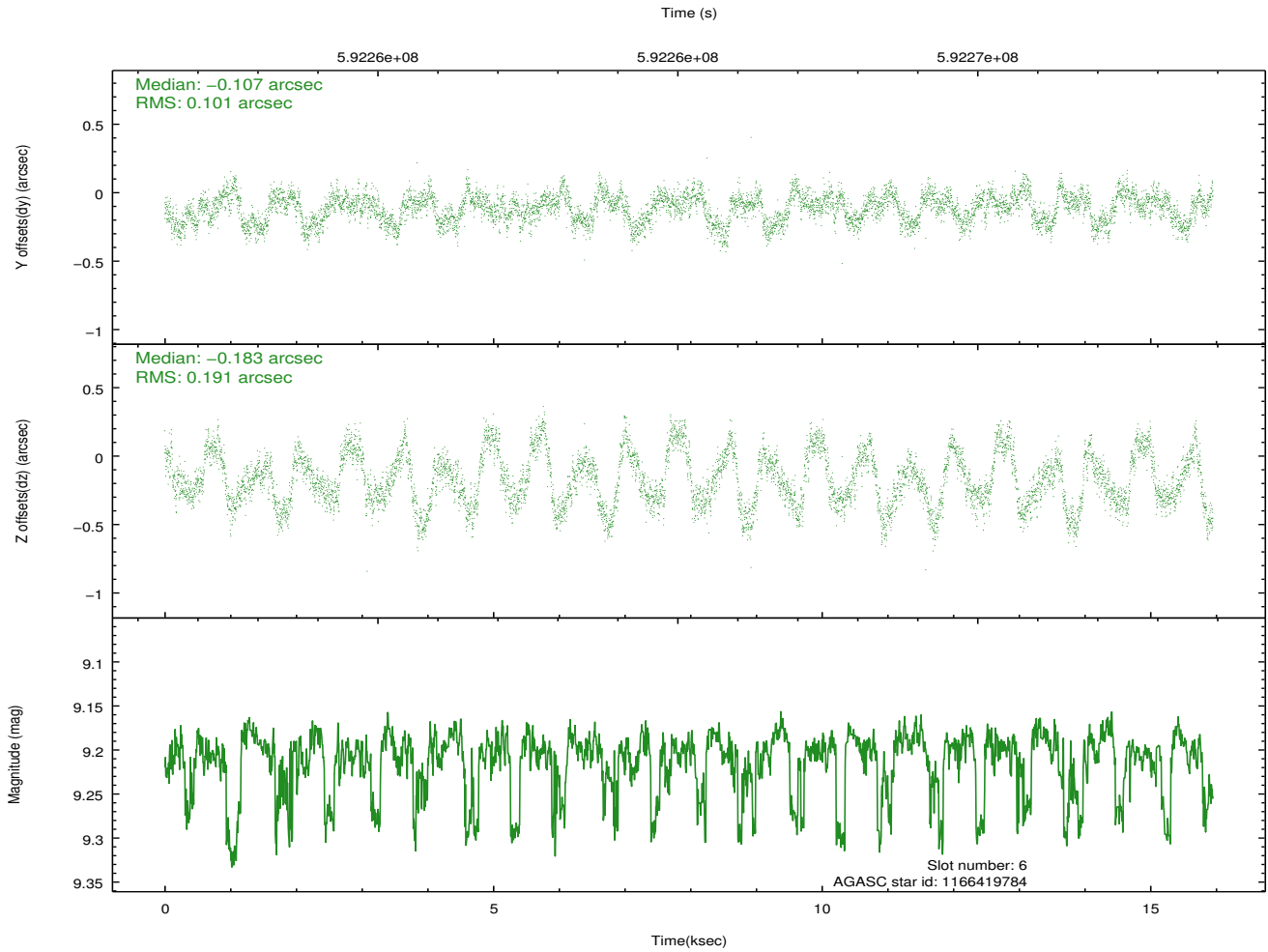
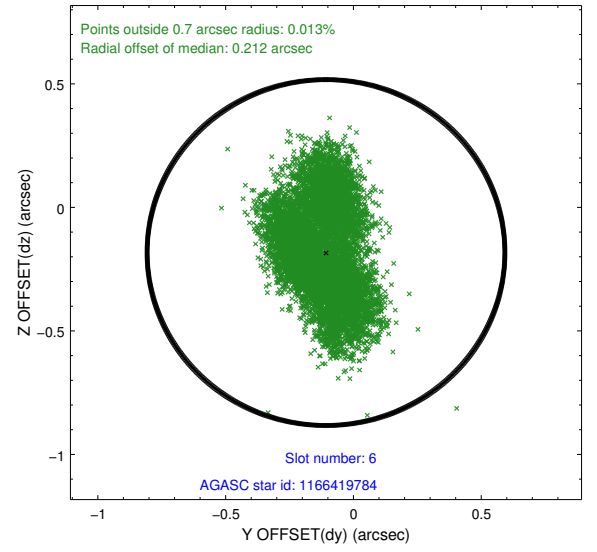
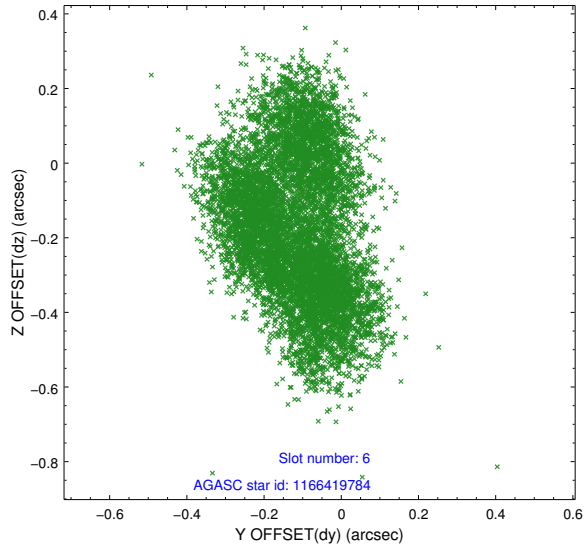
2.4.2 Slot 4



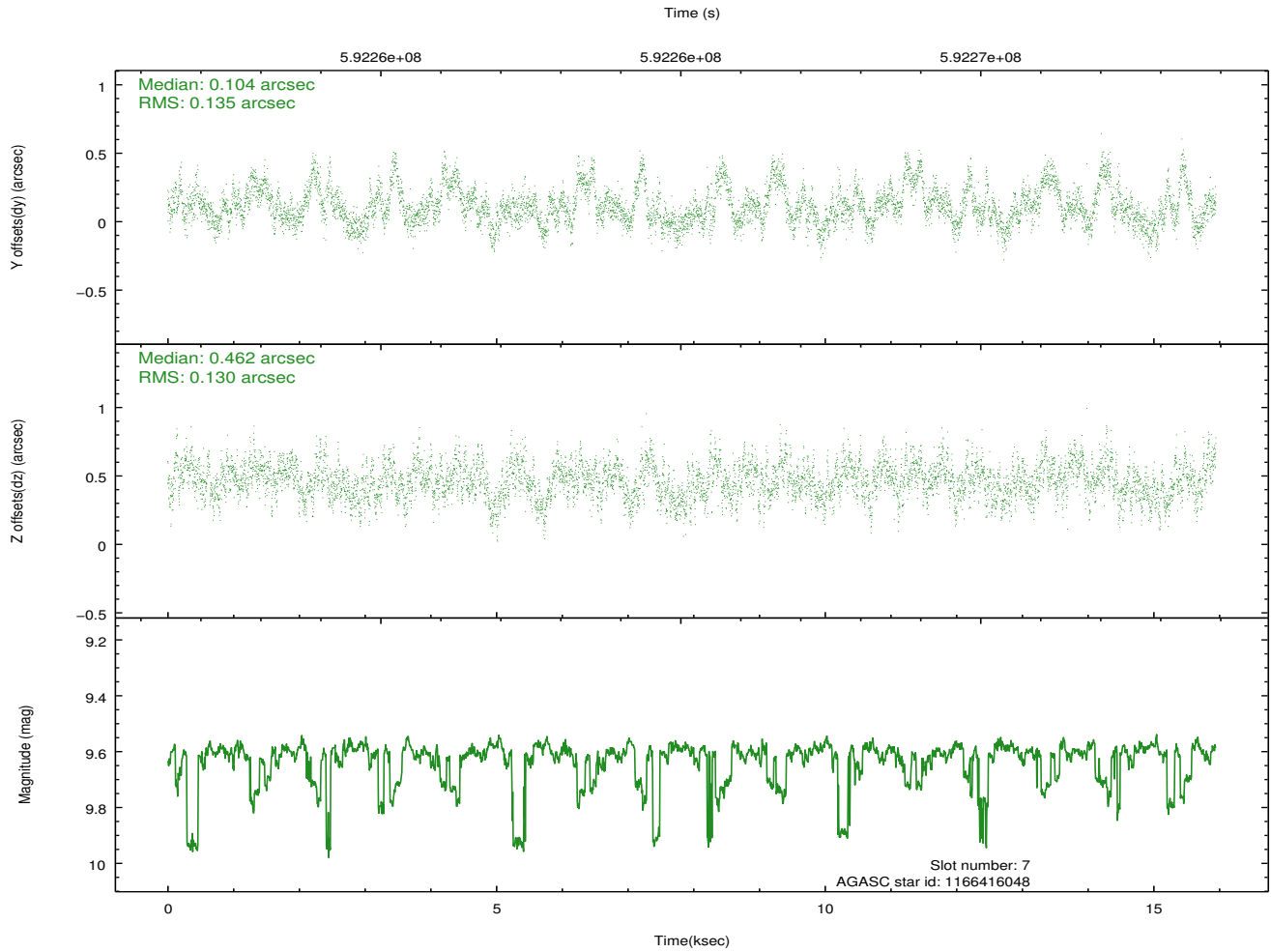
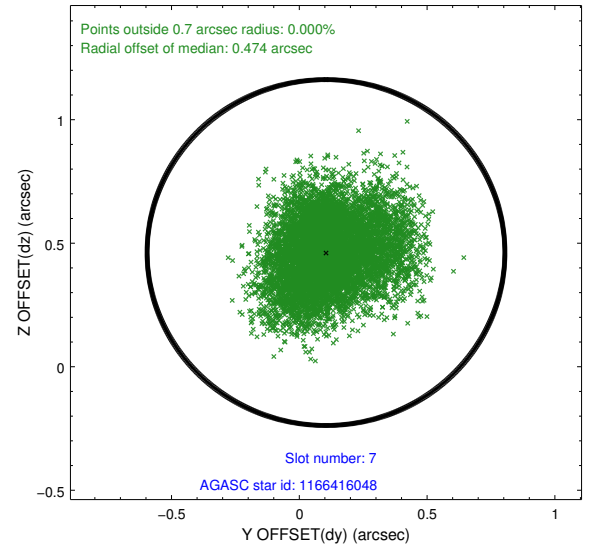
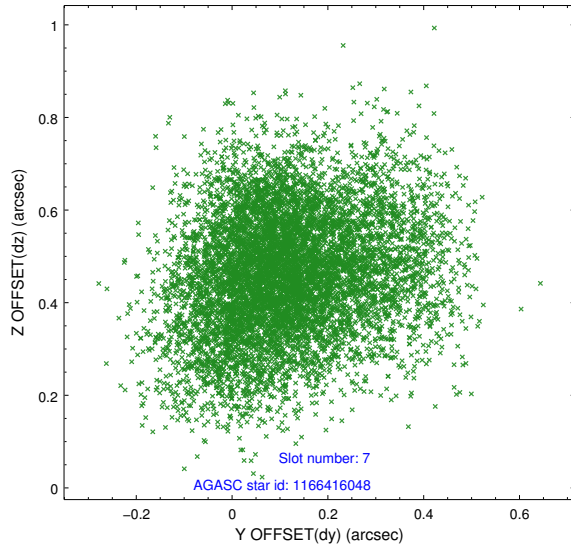
2.4.3 Slot 5



2.4.4 Slot 6

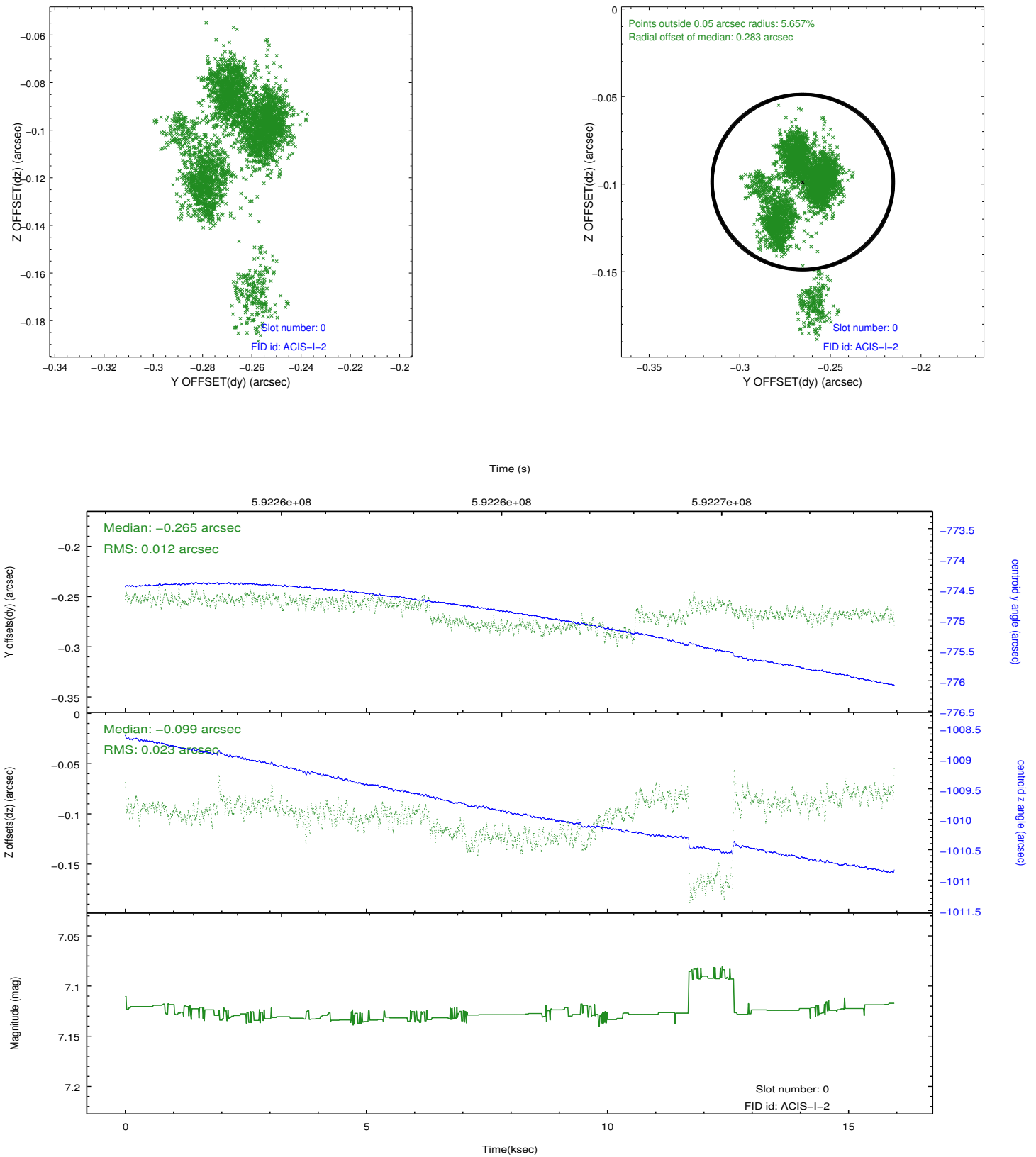


2.4.5 Slot 7

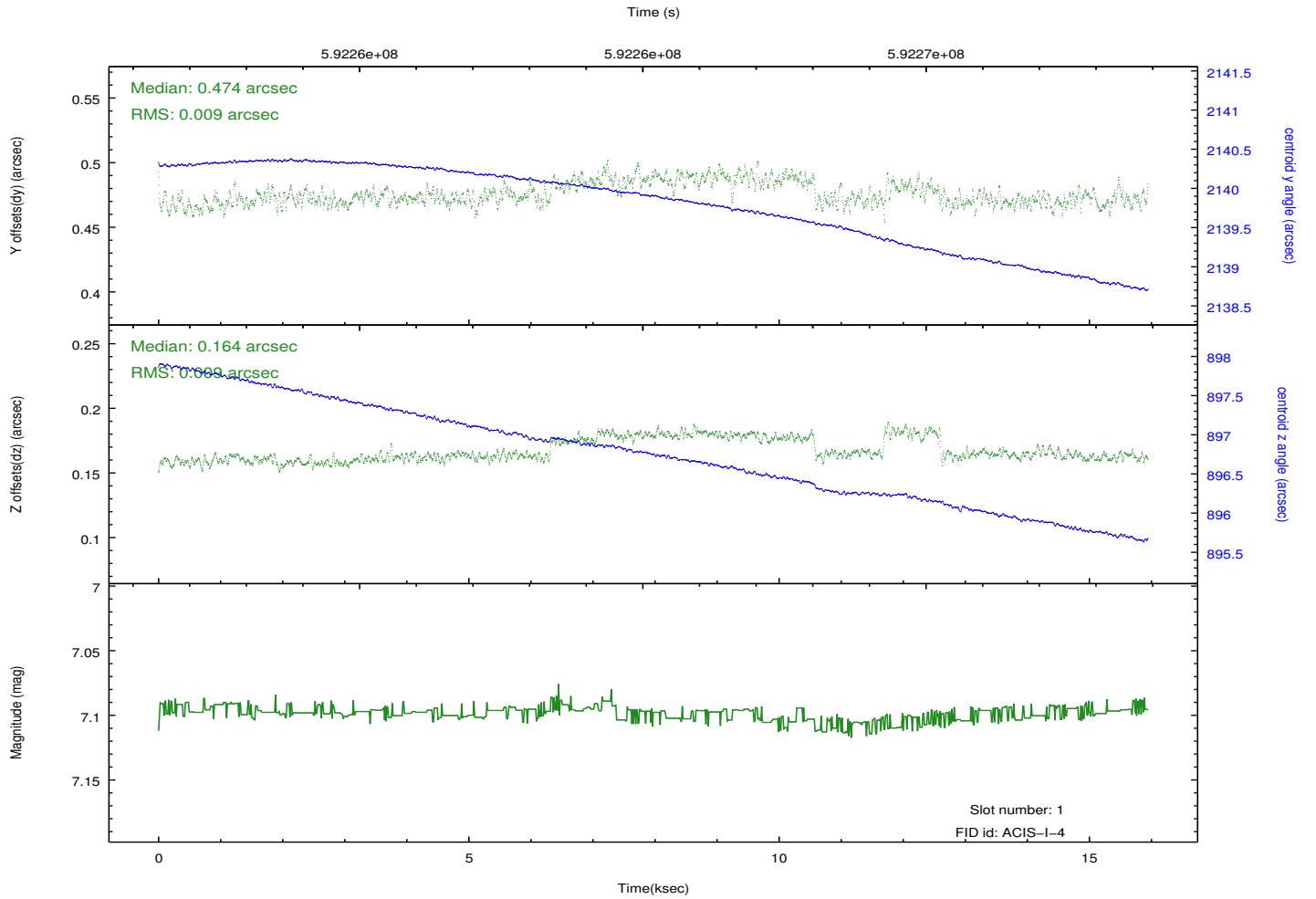
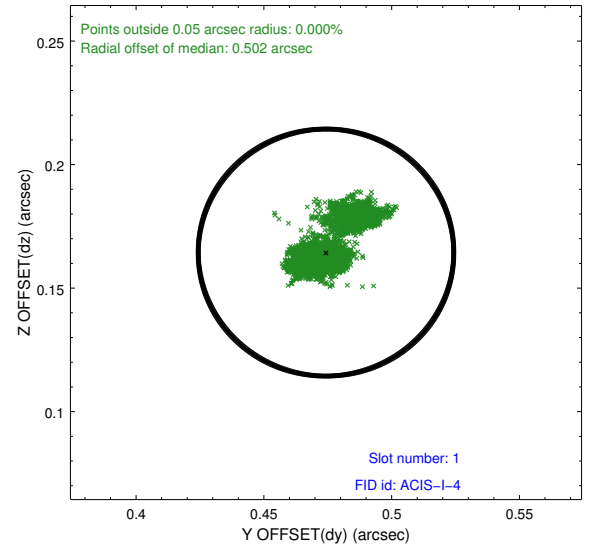
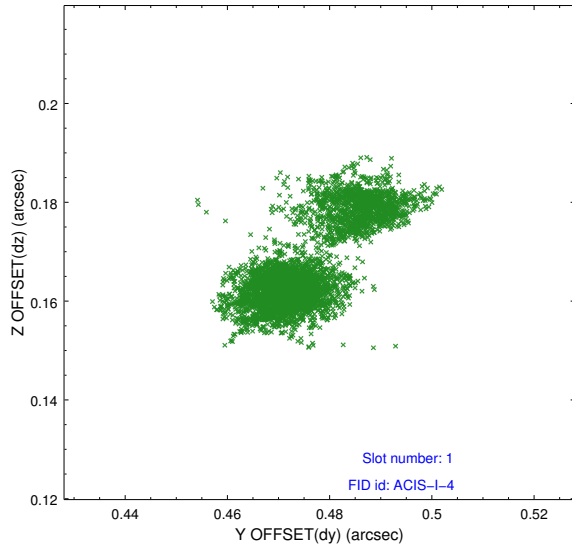


2.5 FID Slots

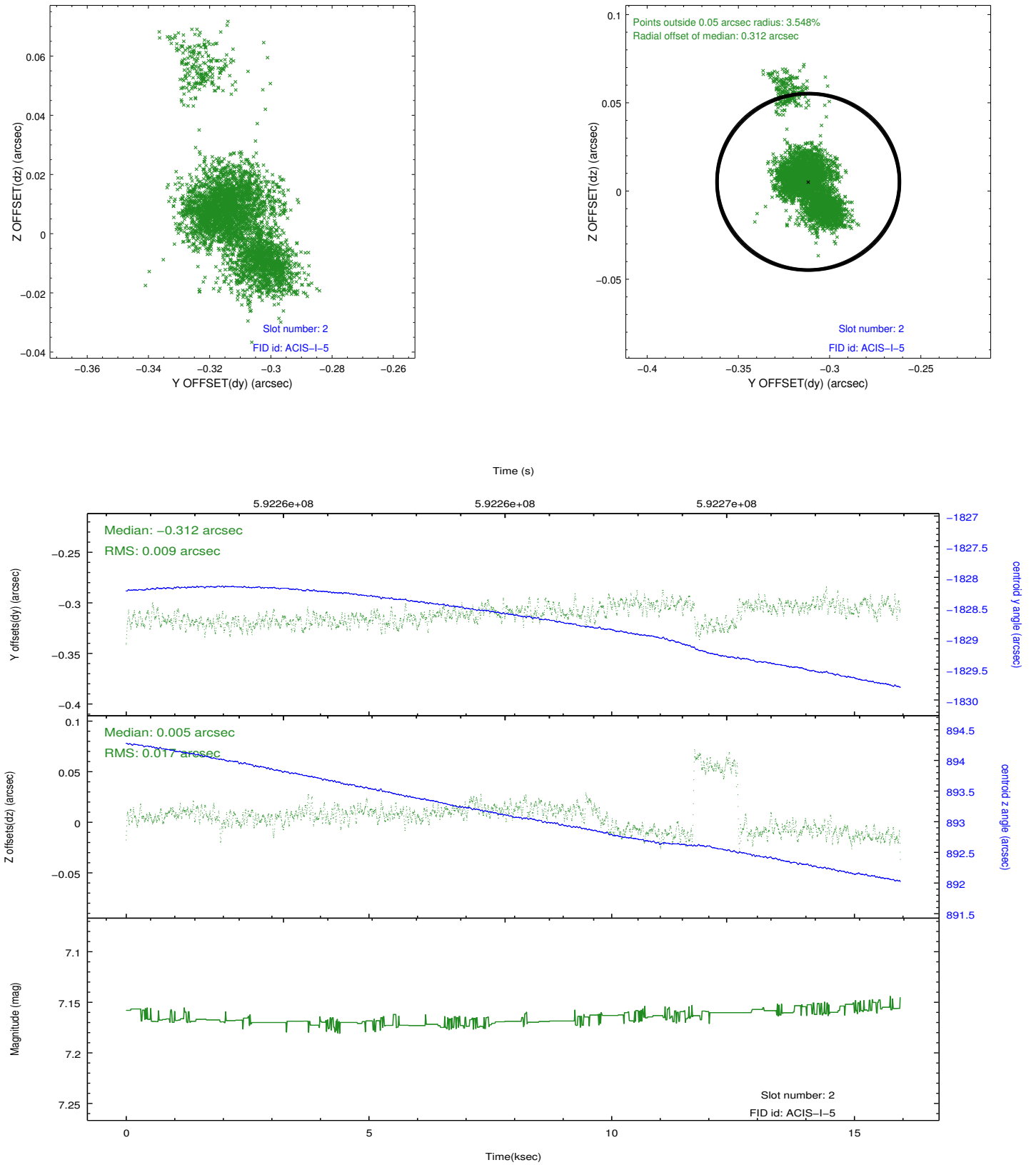
2.5.1 Slot 0



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)	2016.10.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.037194533467

A.2 Comments