

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21708 - L2 Version 1
Chandra X-Ray Center

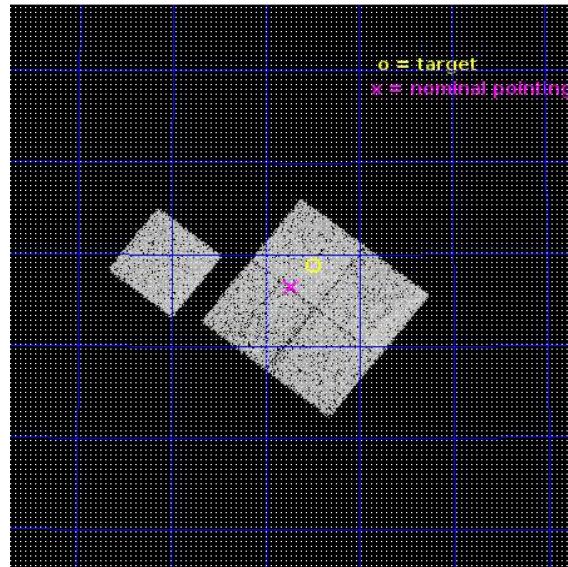
L2 Processing Date : Sep 10 2019

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1 Front

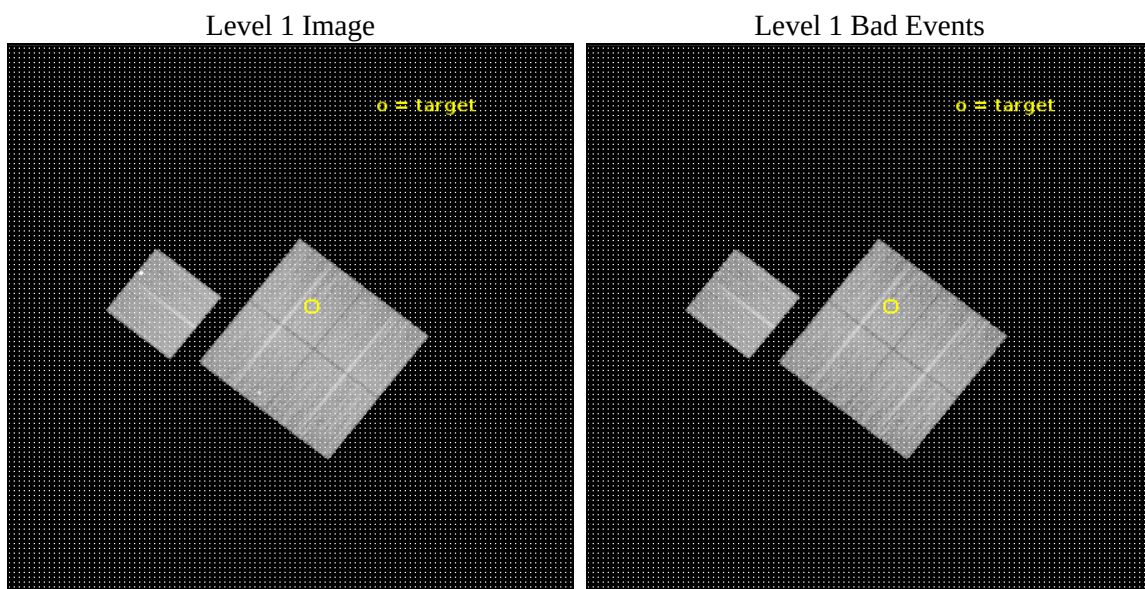
seq_num	801854	Sequence number
obs_id	21708	Observation id
title	Snapshot Survey of LOFAR-selected Galaxy Clusters	Proposal title
observer	Ralph Kraft	Principal investigator
object	WHL J133029.5+490848	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.6225	Observer's specified target RA [deg]
dec_targ	49.146667	Observer's specified target Dec [deg]
ra_nom	202.68114056295	Nominal RA [deg]
dec_nom	49.10814618214	Nominal Dec [deg]
roll_nom	308.16432827333	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15062.859135509	Sum of GTIs [s]
livetime	14866.051791788	Livetime [s]
ontime0	15056.577264547	Sum of GTIs [s]
ontime1	15066.000115991	Sum of GTIs [s]
ontime2	15062.859125614	Sum of GTIs [s]
ontime3	15062.859135509	Sum of GTIs [s]
ontime6	15066.000115991	Sum of GTIs [s]
l2events	55511	Number of level 2 events



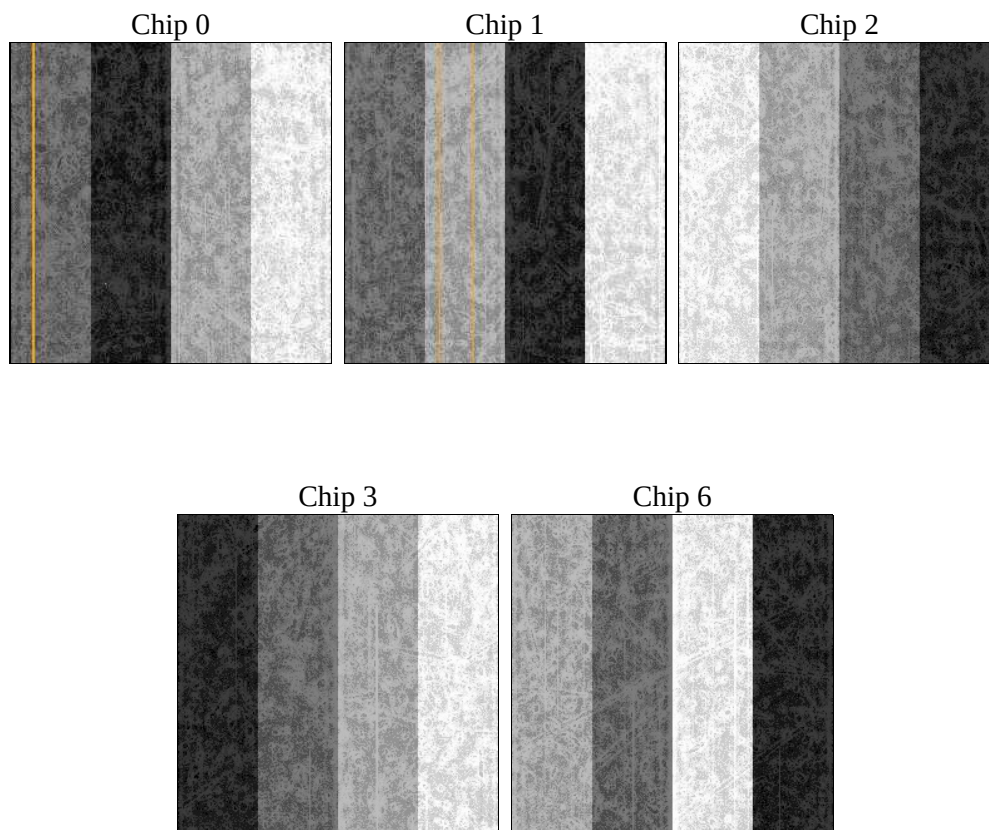
2 OBI

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	10.8	Processing system revision	ontime	15062.859135509	Sum of GTIs [s]
caldsver	4.8.4.1	 	ontime0	15056.577264547	Sum of GTIs [s]
date	2019-09-10T05:42:46	Date and time of file creation	ontime1	15066.000115991	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	15062.859125614	Sum of GTIs [s]
			ontime3	15062.859135509	Sum of GTIs [s]
			ontime6	15066.000115991	Sum of GTIs [s]
			l1events	589637	Number of level 1 events

2.1.4 Events

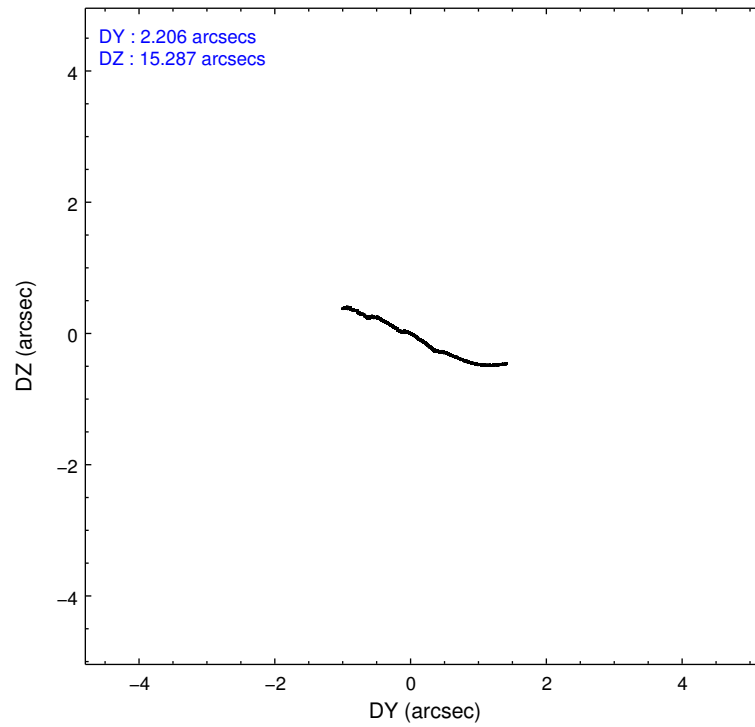
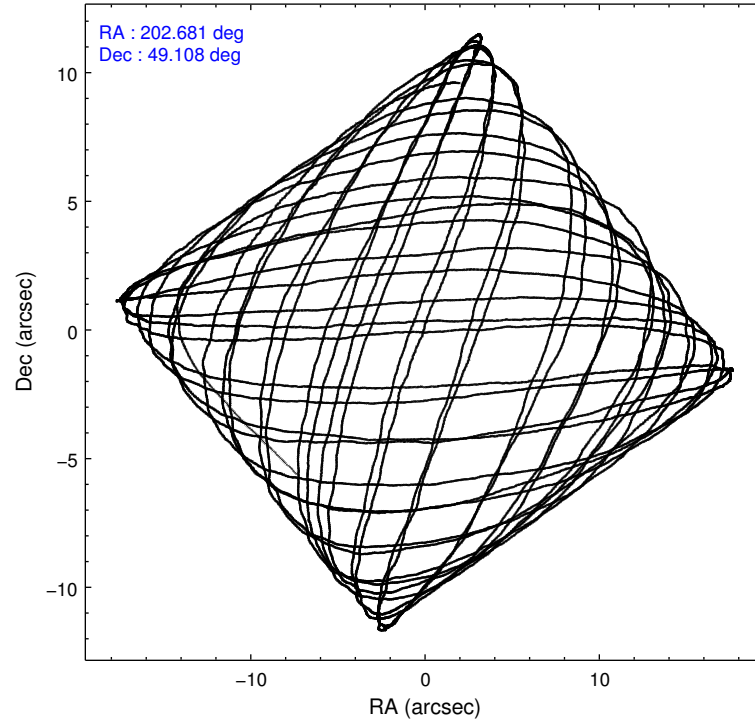
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	113612	113028	119049	118381	125567
rejected events	100890	98426	106154	105192	108950
rejected %	88%	87%	89%	88%	86%

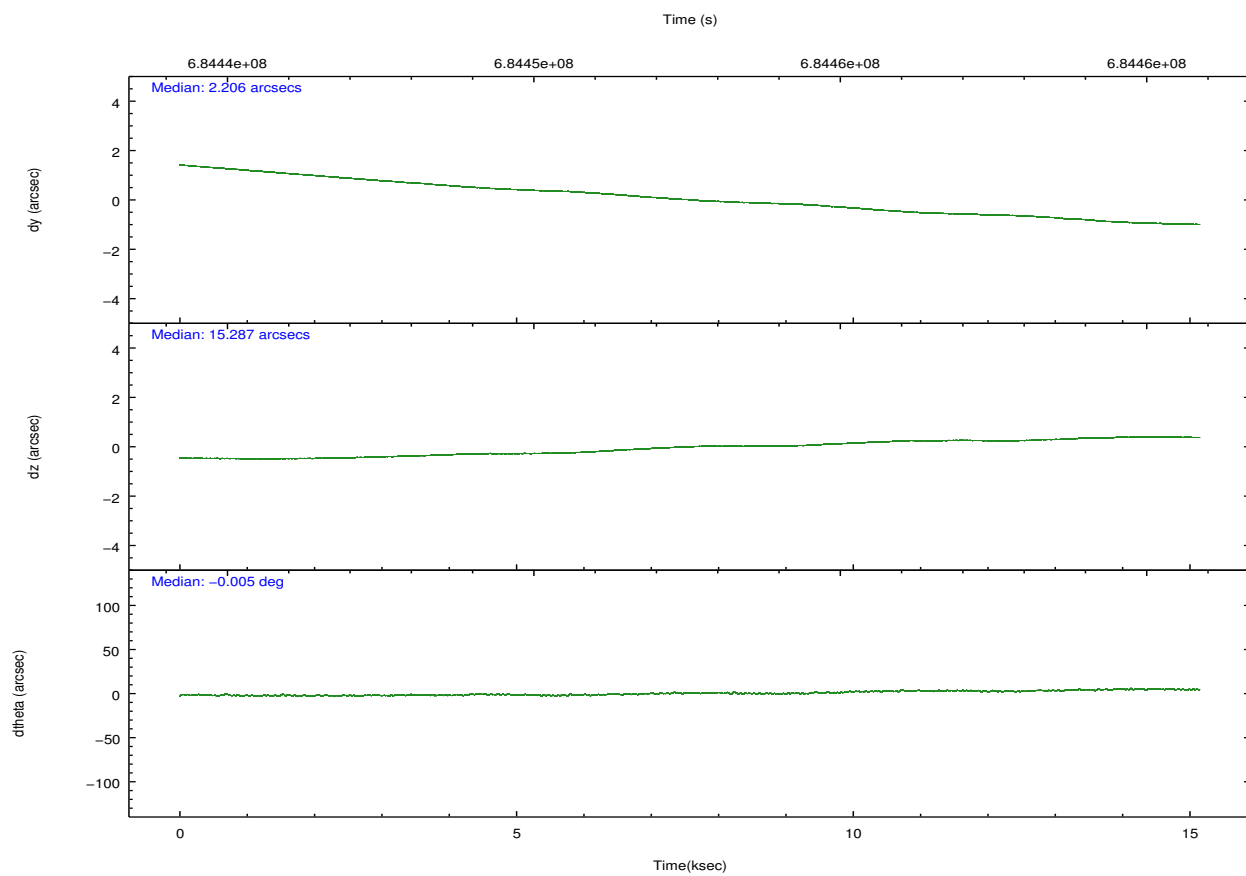
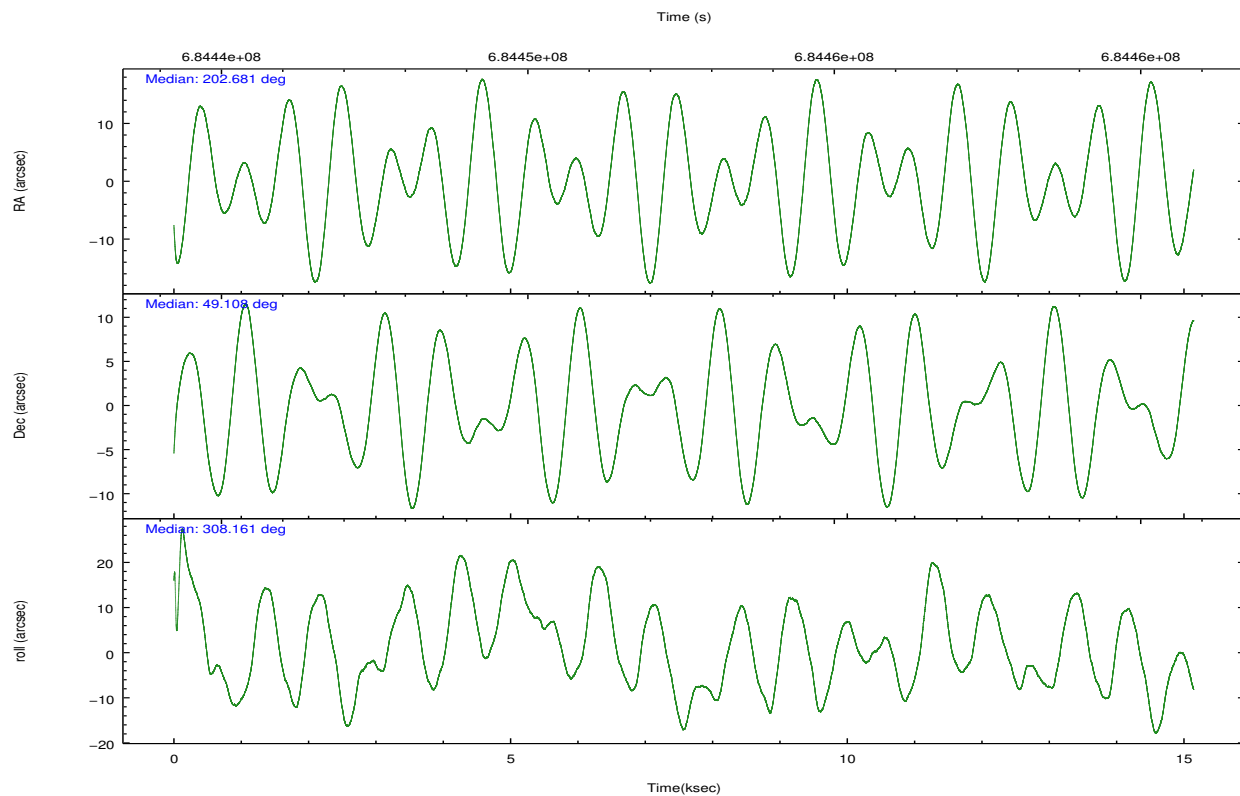
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4167	4404	5159	5144	3711
	3%	3%	4%	4%	2%
grade 1 events	59	63	85	62	42
	0%	0%	0%	0%	0%
grade 2 events	3401	4208	2906	2818	7139
	2%	3%	2%	2%	5%
grade 3 events	1223	1200	1149	1278	1066
	1%	1%	0%	1%	0%
grade 4 events	1117	1147	1213	1220	1075
	0%	1%	1%	1%	0%
grade 5 events	4662	4725	4272	5283	4775
	4%	4%	3%	4%	3%
grade 6 events	2815	3646	2470	2734	3627
	2%	3%	2%	2%	2%
grade 7 events	96168	93635	101795	99842	104132
	84%	82%	85%	84%	82%

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	202.641962	202.6811405629541	CCD I2 on	Y	Y
[deg] Pointing Dec	49.118306	49.10814618214035	CCD I3 on	Y	Y
[deg] Pointing Roll	307.985276	308.1643282733301	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	-225.842463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	684445101.184000	684443711.85325	CCD S5 on	N	N
Observation start date	2019-09-09T19:37:12	2019-09-09T19:15:11	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	684460101.184000	684461242.4293	On-chip summing requested	N	N
Observation end date	2019-09-09T23:47:12	2019-09-10T00:07:22	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



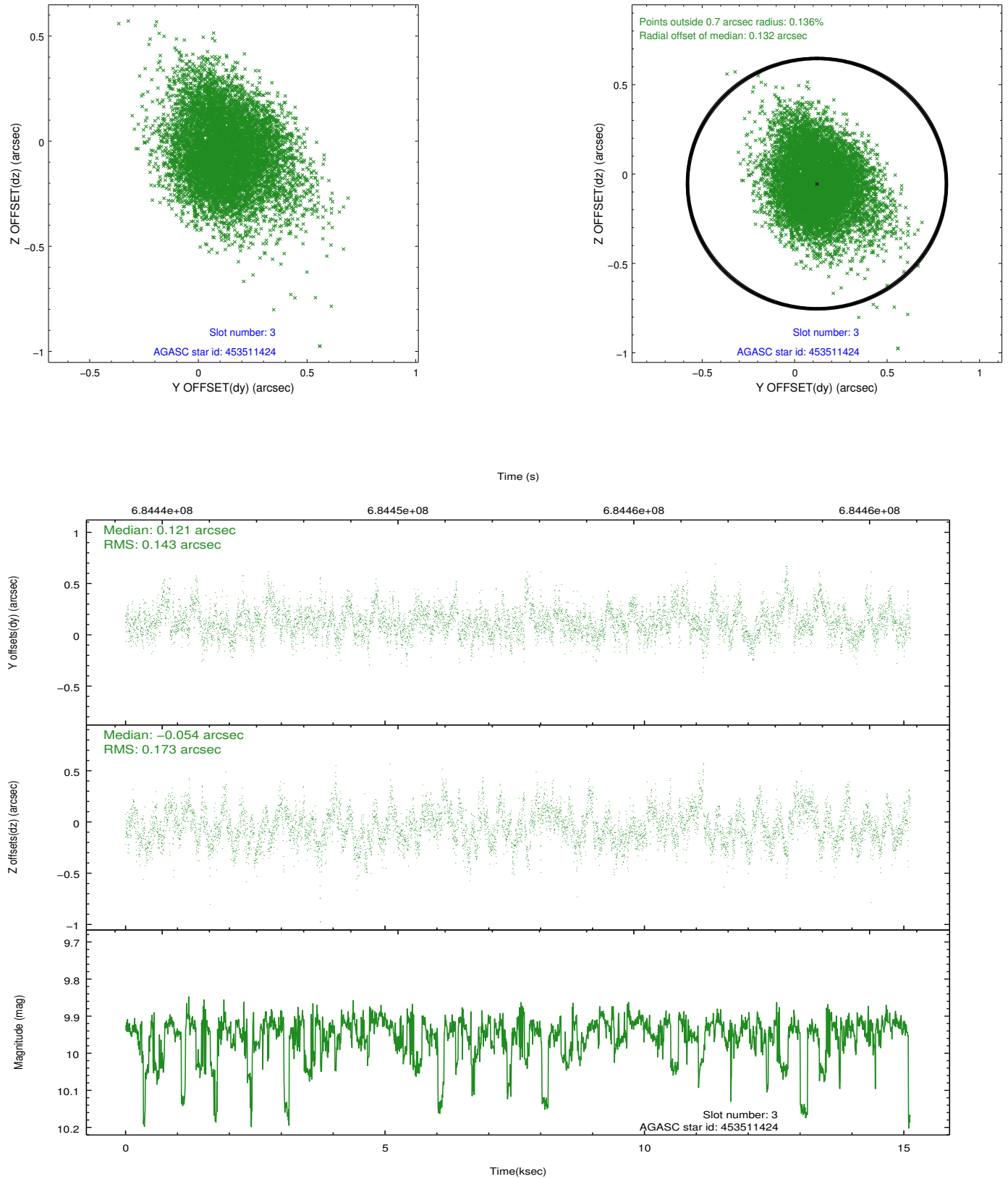


Slot Statistics

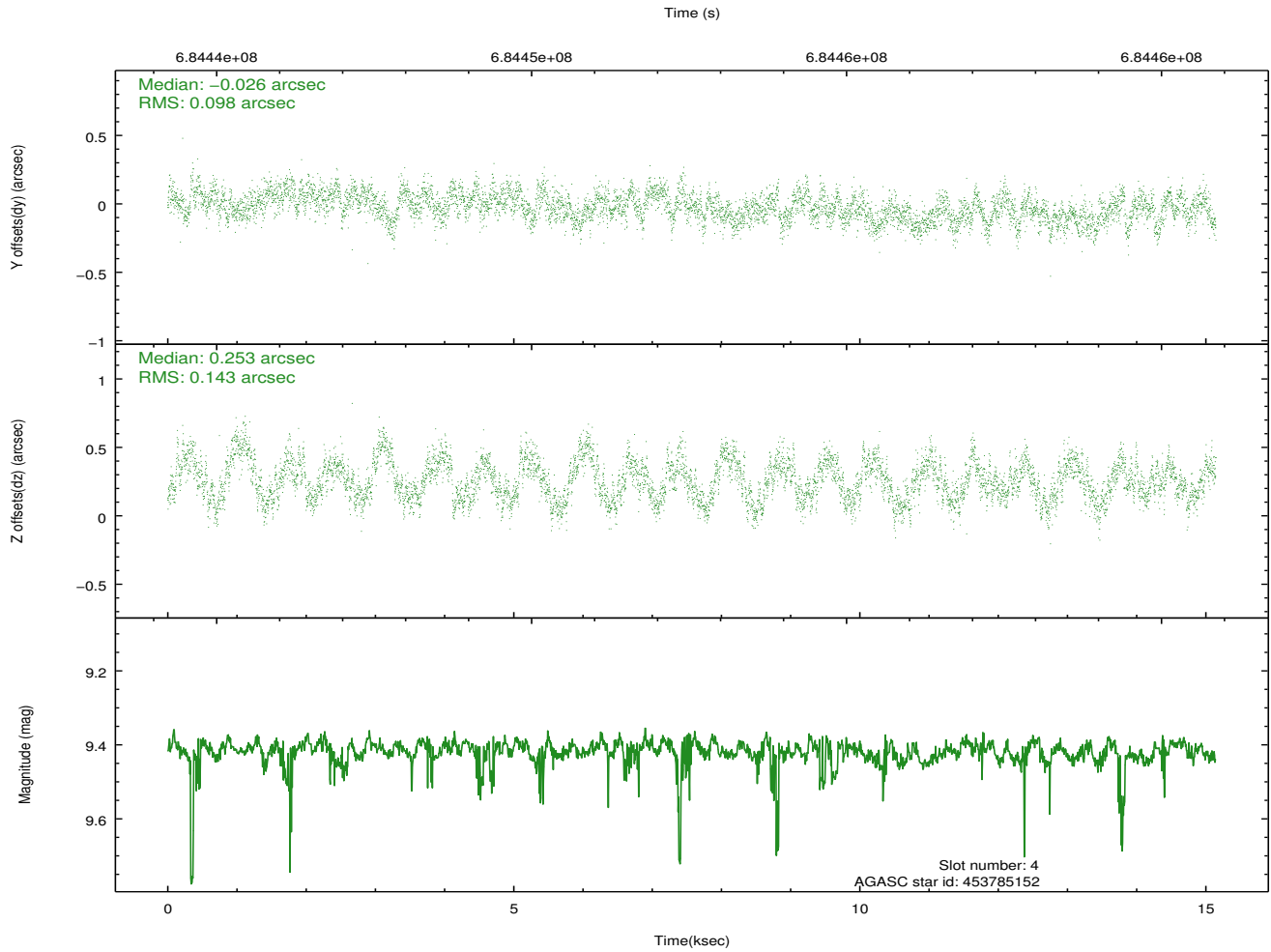
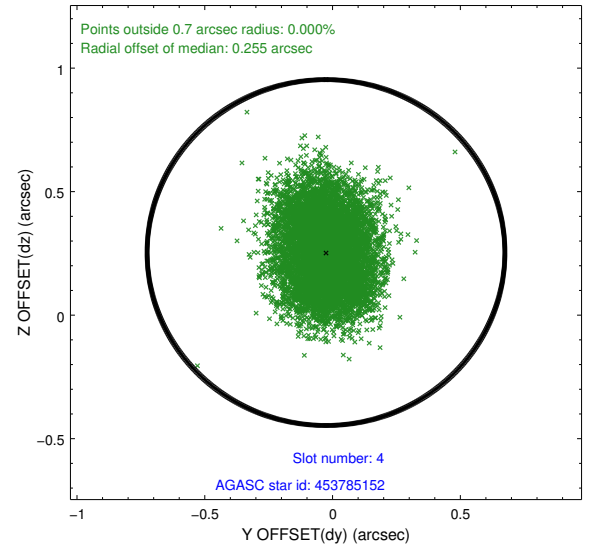
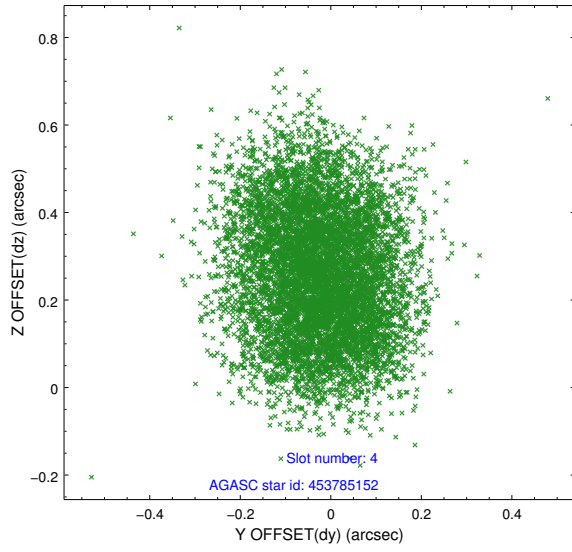
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.21	3694	1.000	0.188	-0.230	0.016	0.038	0.000000	0.000000	937.62	-998
1	FID		ACIS-I-5	7.19	3694	1.000	-0.445	0.097	0.031	0.050	0.000000	0.000000	-1811.05	899
2	FID		ACIS-I-6	7.23	3692	1.000	0.161	0.204	0.037	0.048	0.000000	0.000000	402.68	1544
3	GUIDE	used	453511424	9.94	7353	1.000	0.121	-0.054	0.236	0.389	202.355448	48.377125	1680.90	-2181
4	GUIDE	used	453785152	9.42	7367	1.000	-0.026	0.253	0.188	0.291	202.065913	49.353815	-1501.77	-540
5	GUIDE	used	454295896	9.72	7305	1.000	-0.051	-0.223	0.291	0.442	202.753690	49.387588	-602.30	802
6	GUIDE	used	454296216	9.76	7373	1.000	-0.123	-0.165	0.241	0.391	203.279198	49.497883	-165.75	2017
7	GUIDE	used	453783096	9.81	7368	1.000	0.061	0.173	0.209	0.337	202.139501	49.351025	-1388.63	-411

2.4 Star Slots

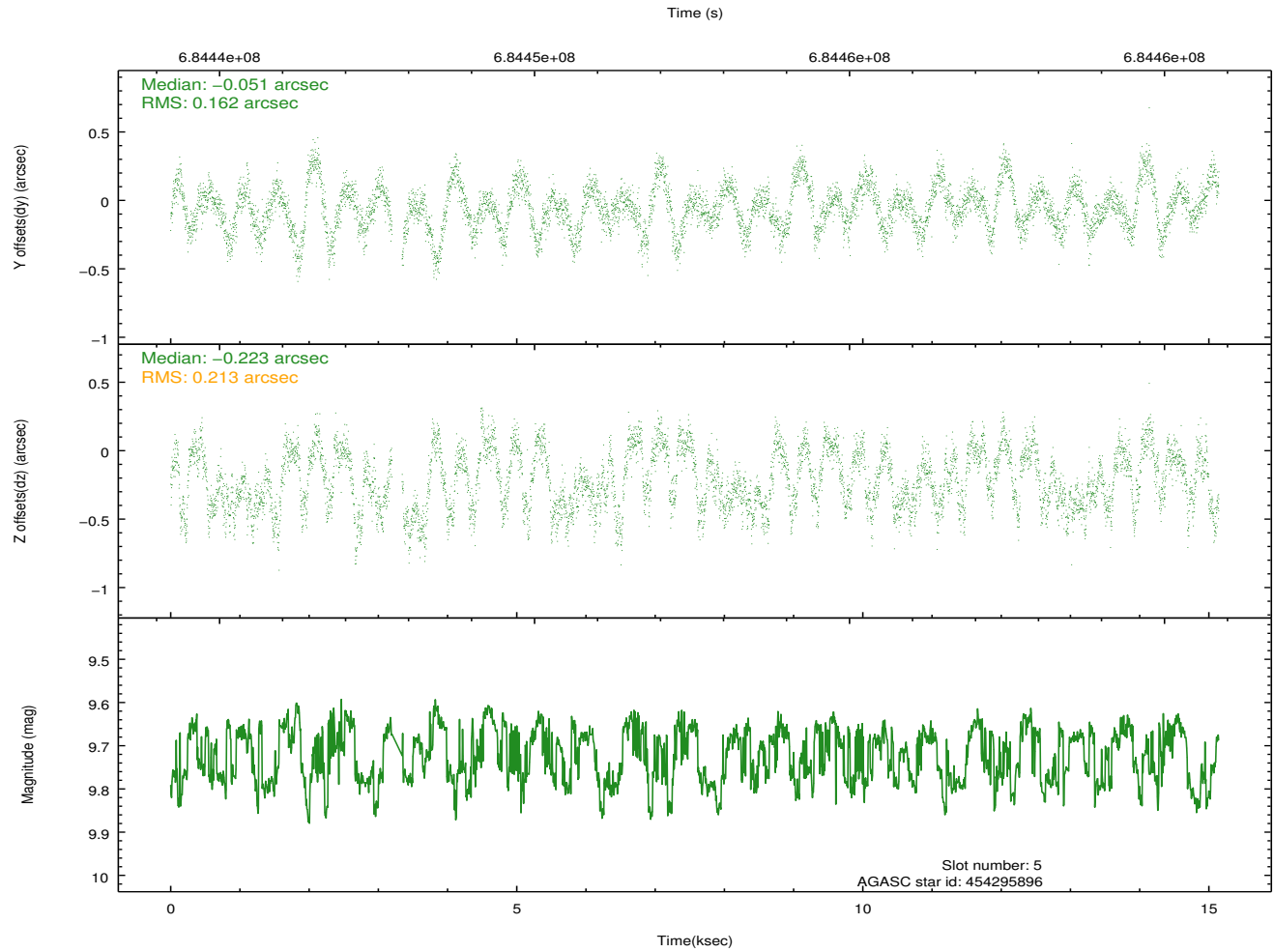
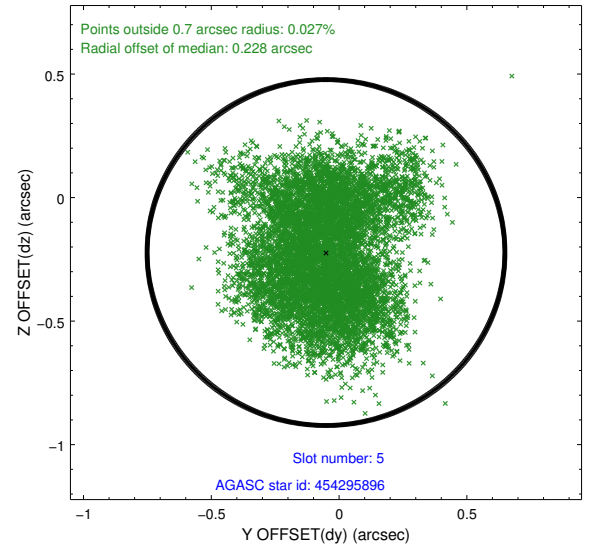
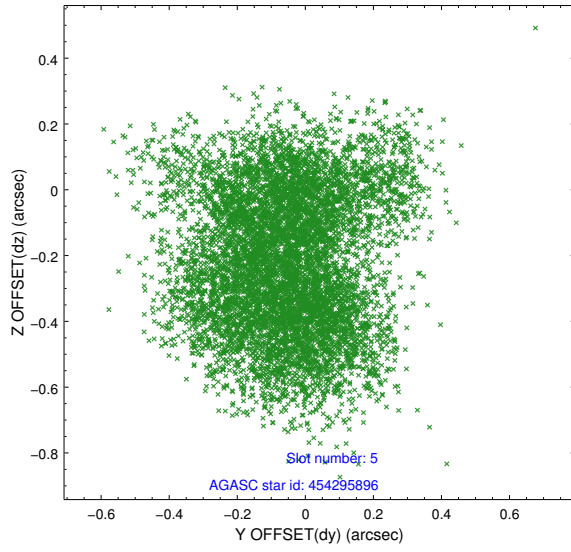
2.4.1 Slot 3



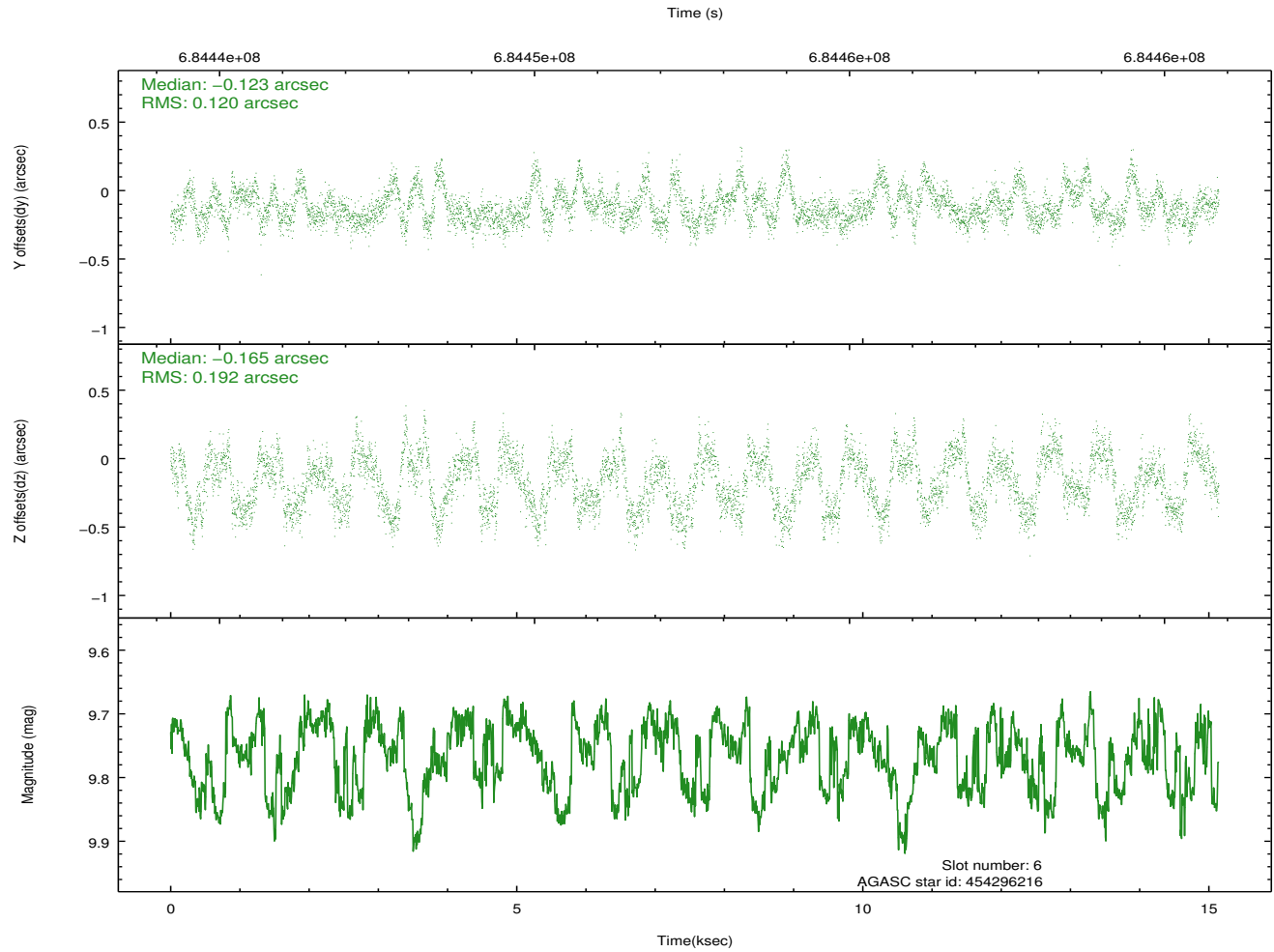
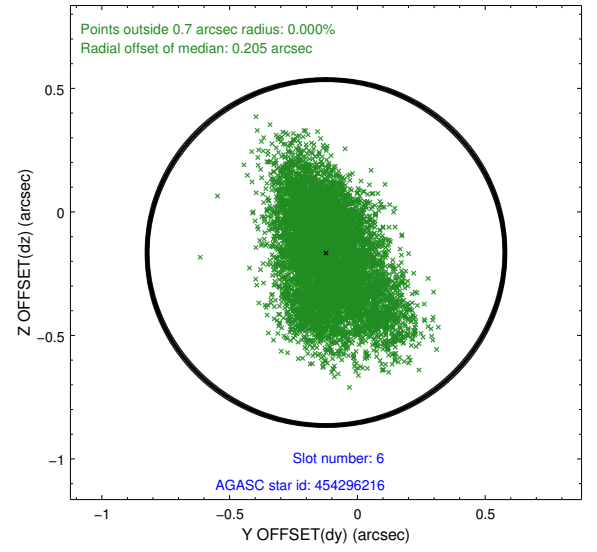
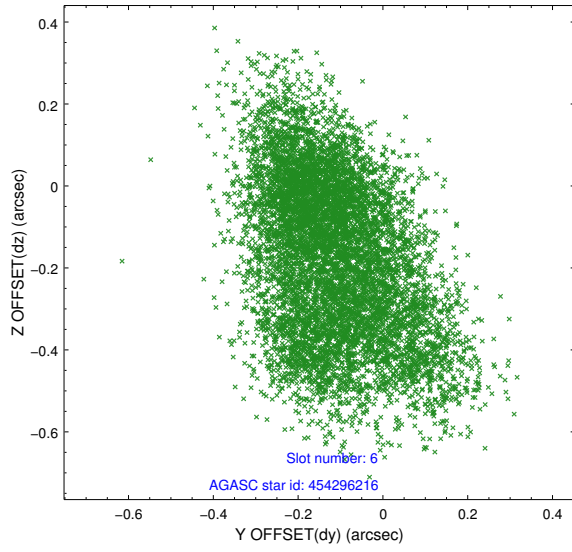
2.4.2 Slot 4



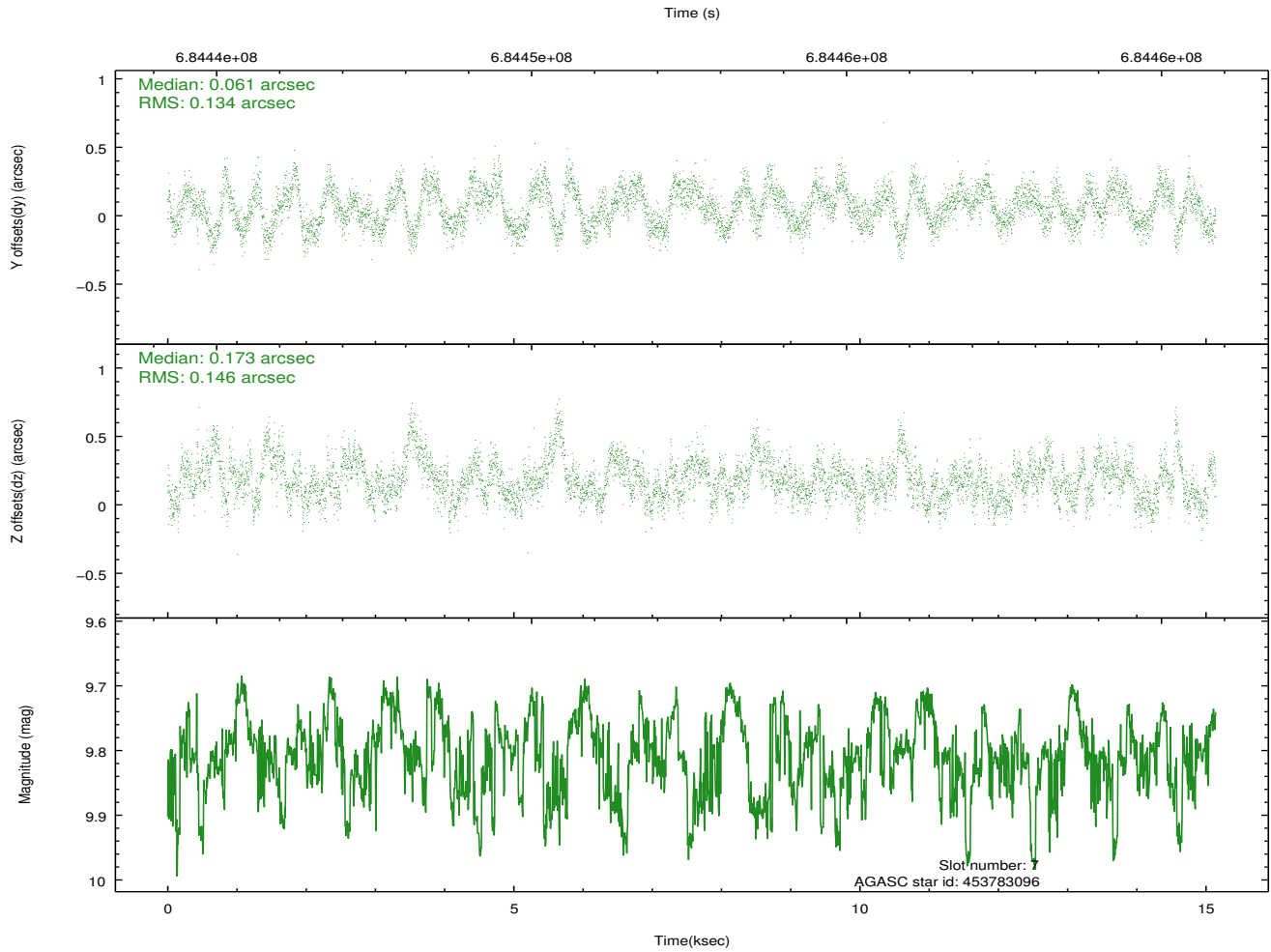
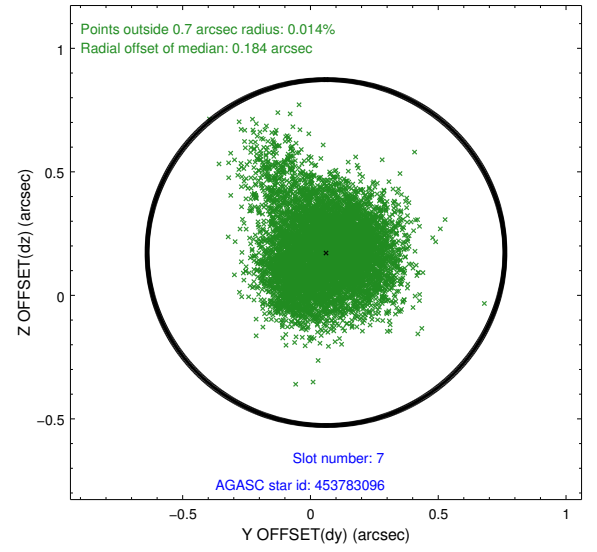
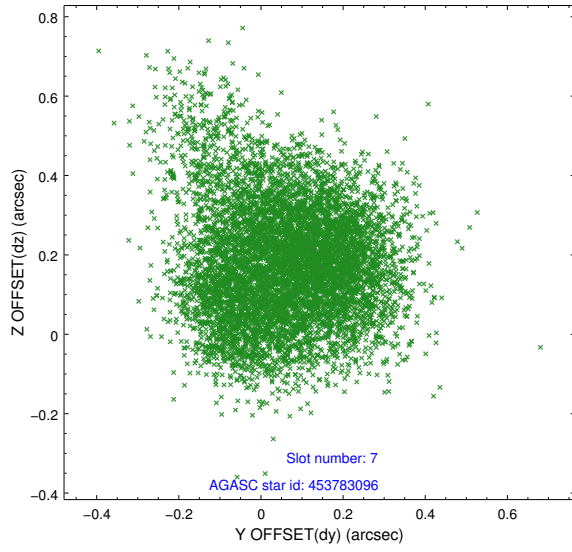
2.4.3 Slot 5



2.4.4 Slot 6

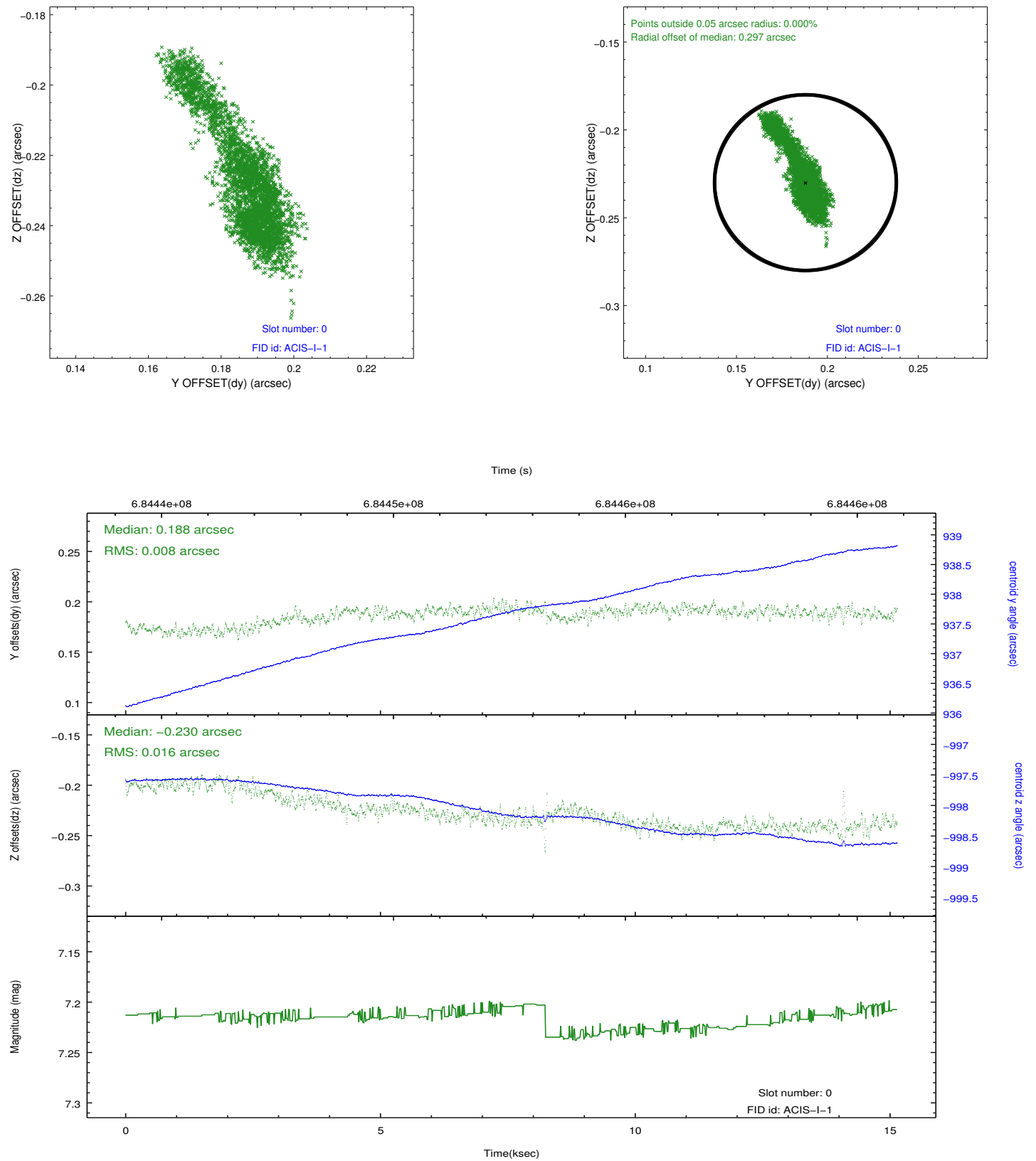


2.4.5 Slot 7

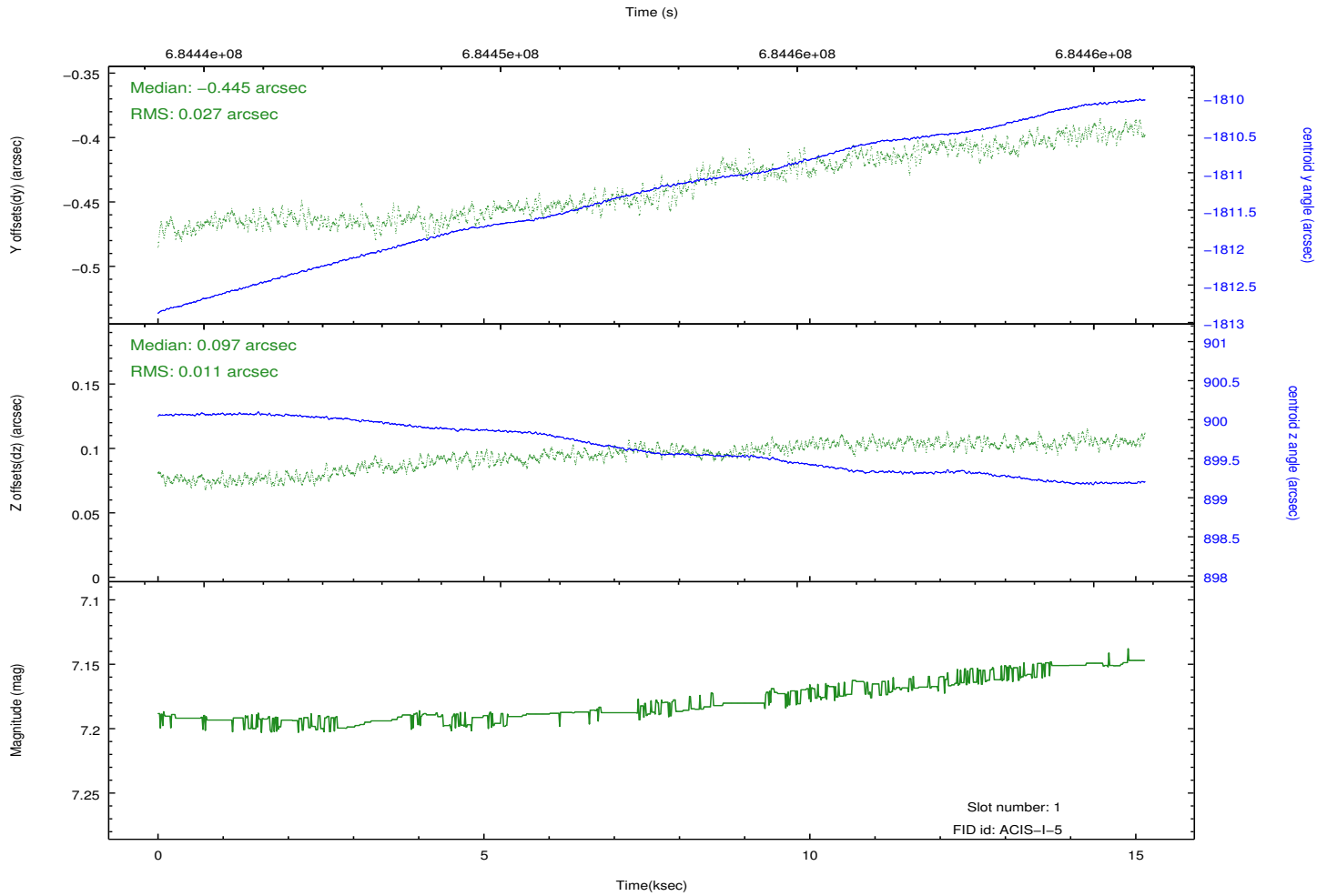
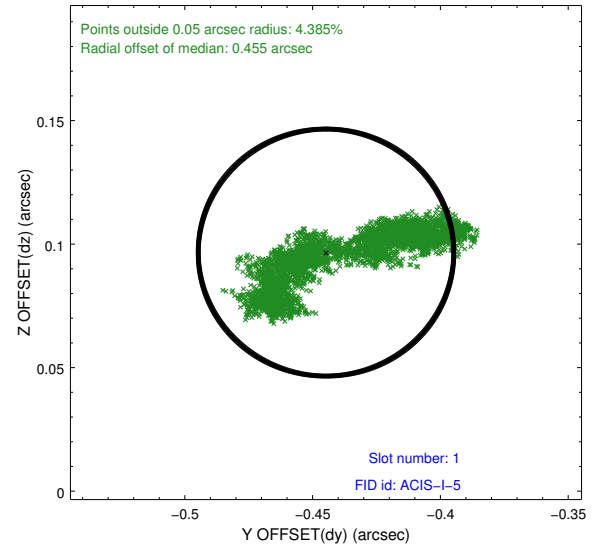
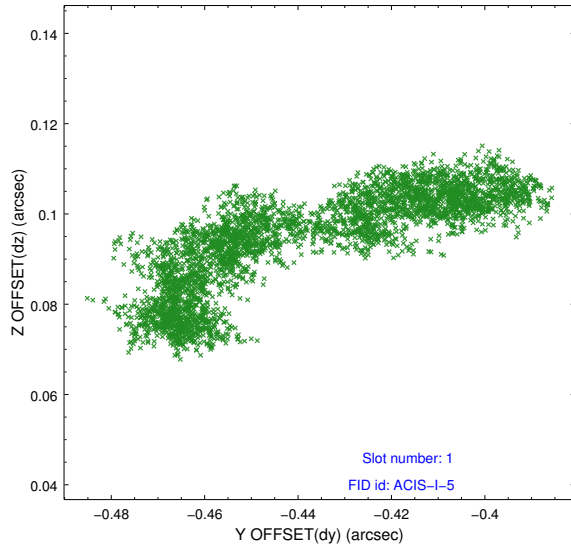


2.5 FID Slots

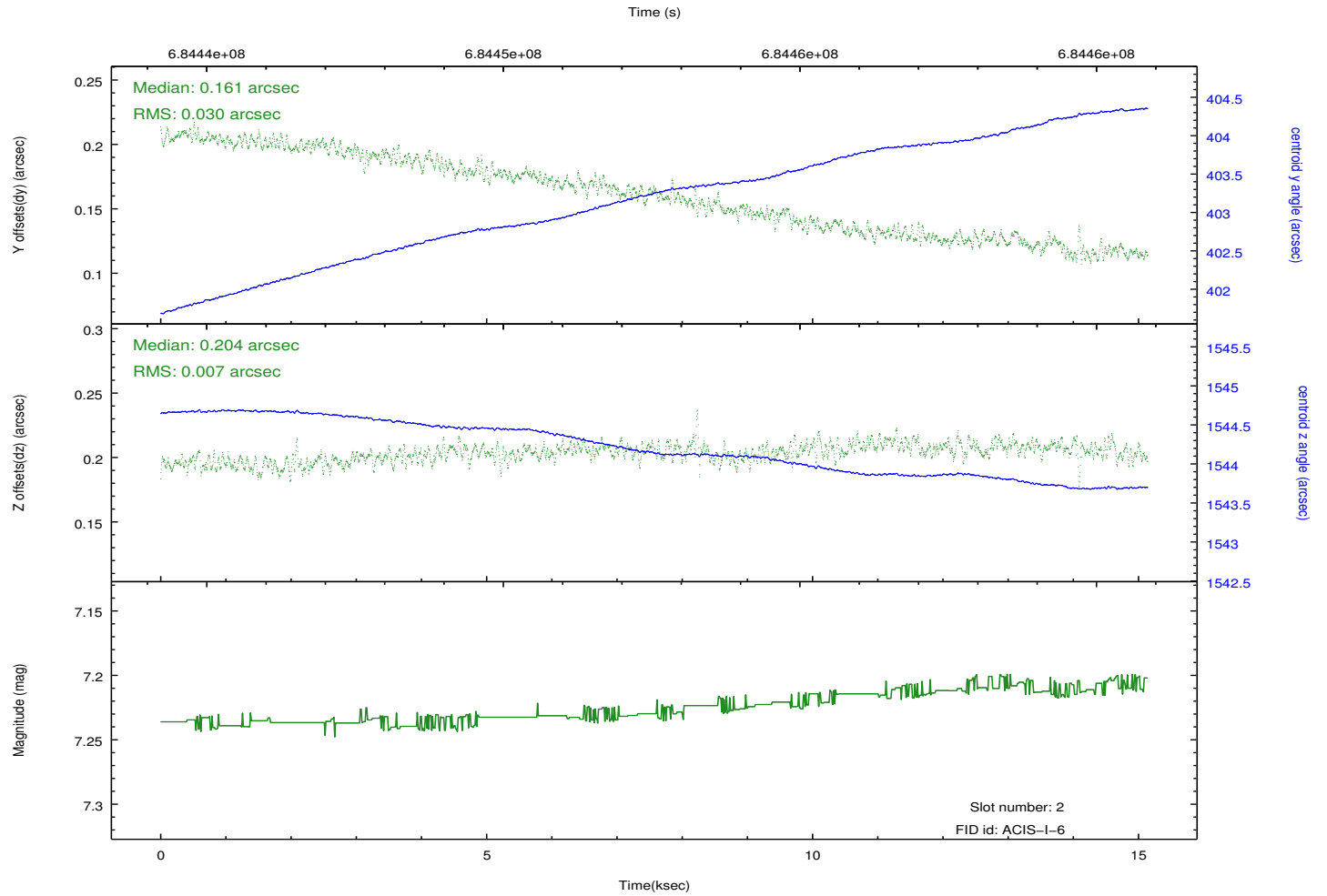
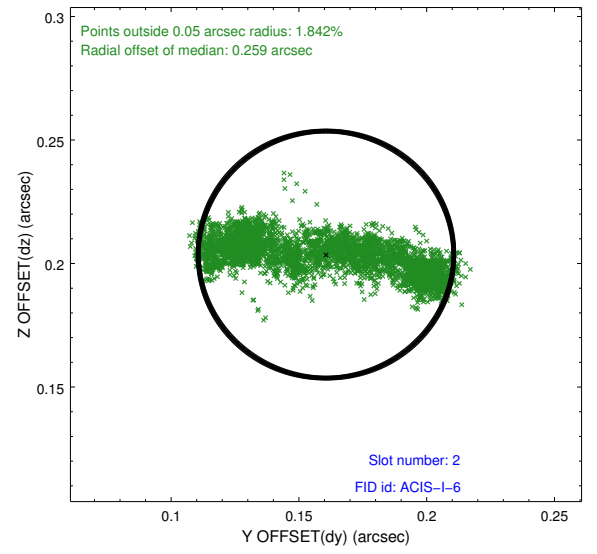
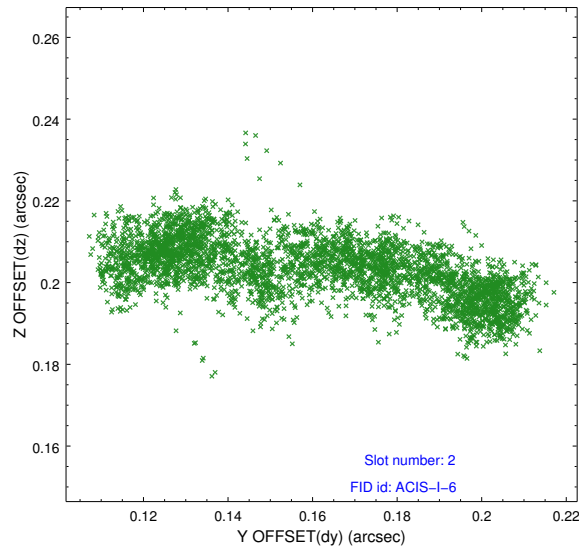
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2019.09.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.062859135509

A.2 Comments