

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 22685 - L2 Version 1
Chandra X-Ray Center

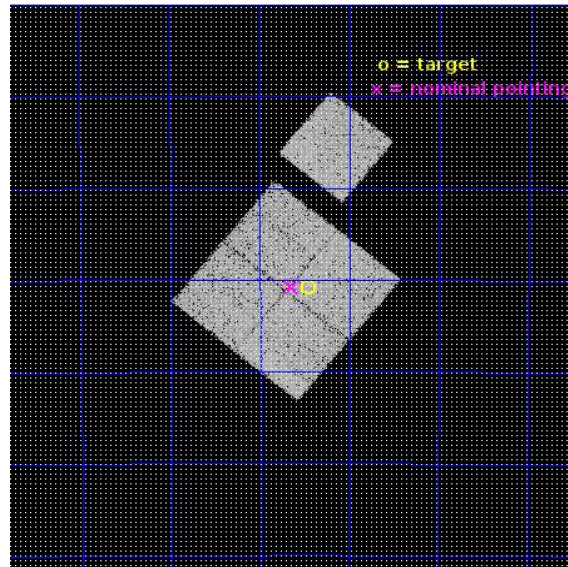
L2 Processing Date : Aug 16 2019

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1 Front

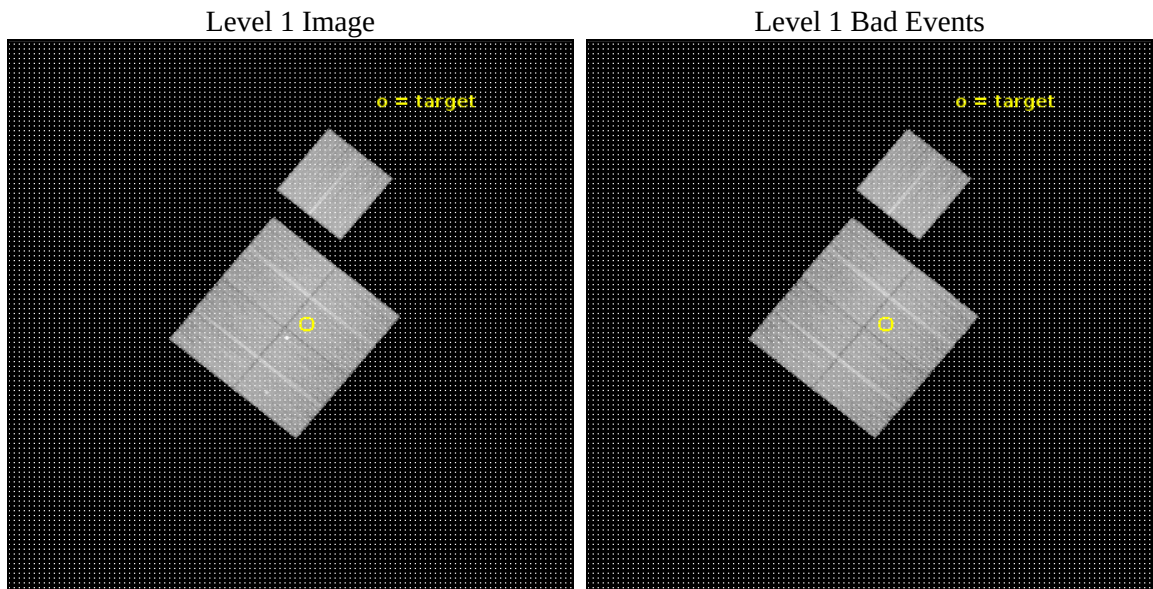
seq_num	801831	Sequence number
obs_id	22685	Observation id
title	Studying the Progenitors of Our Favorite Clusters at $z > 1$	Proposa
observer	Michael McDonald	Principal investigator
object	SPT-CLJ2306-5120	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	346.615	Observer's specified target RA [deg]
dec_targ	-51.347	Observer's specified target Dec [deg]
ra_nom	346.66243881557	Nominal RA [deg]
dec_nom	-51.345813836576	Nominal Dec [deg]
roll_nom	39.245740380508	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20067.97358942	Sum of GTIs [s]
livetime	19805.770740647	Livetime [s]
ontime0	20070.991510272	Sum of GTIs [s]
ontime1	20071.032550216	Sum of GTIs [s]
ontime2	20071.073590279	Sum of GTIs [s]
ontime3	20067.97358942	Sum of GTIs [s]
ontime6	20067.809420228	Sum of GTIs [s]
l2events	72599	Number of level 2 events



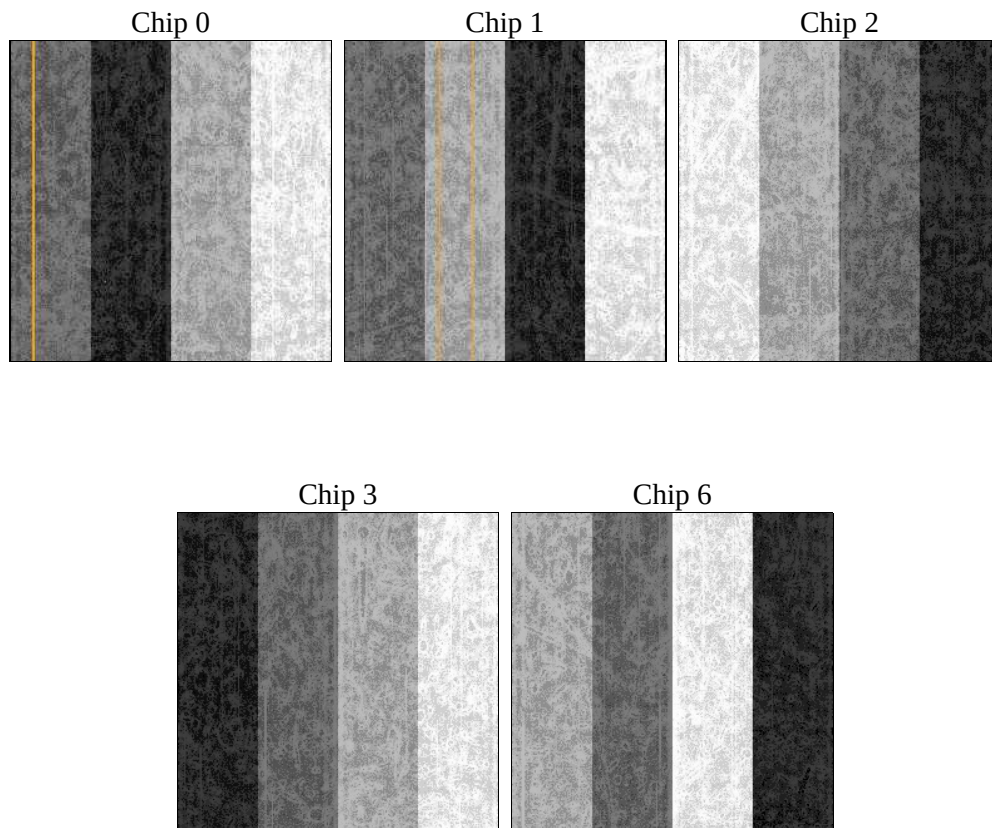
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	20067.97358942	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	20070.991510272	Sum of GTIs [s]
date	2019-08-16T05:10:40	Date and time of file creation	ontime1	20071.032550216	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	20071.073590279	Sum of GTIs [s]
			ontime3	20067.97358942	Sum of GTIs [s]
			ontime6	20067.809420228	Sum of GTIs [s]
			l1events	767188	Number of level 1 events

2.1.4 Events

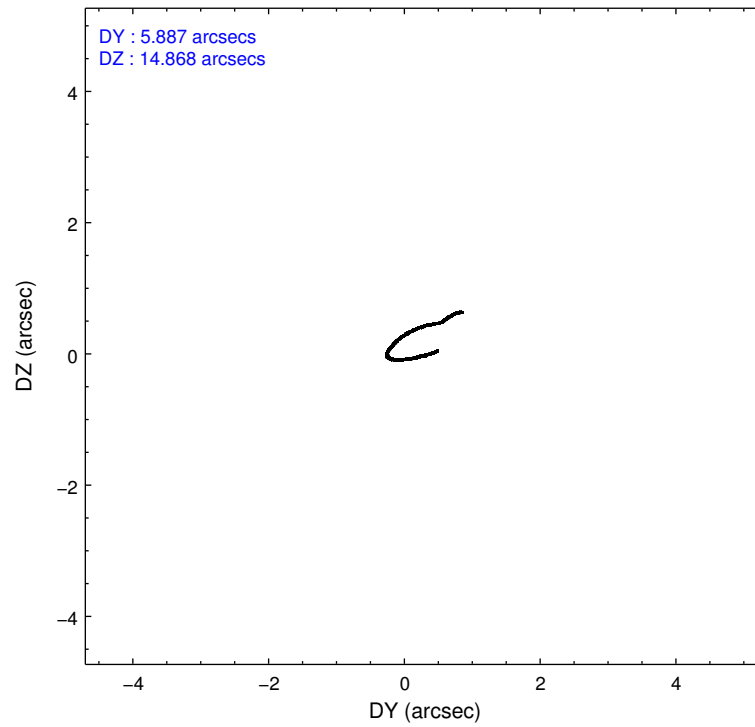
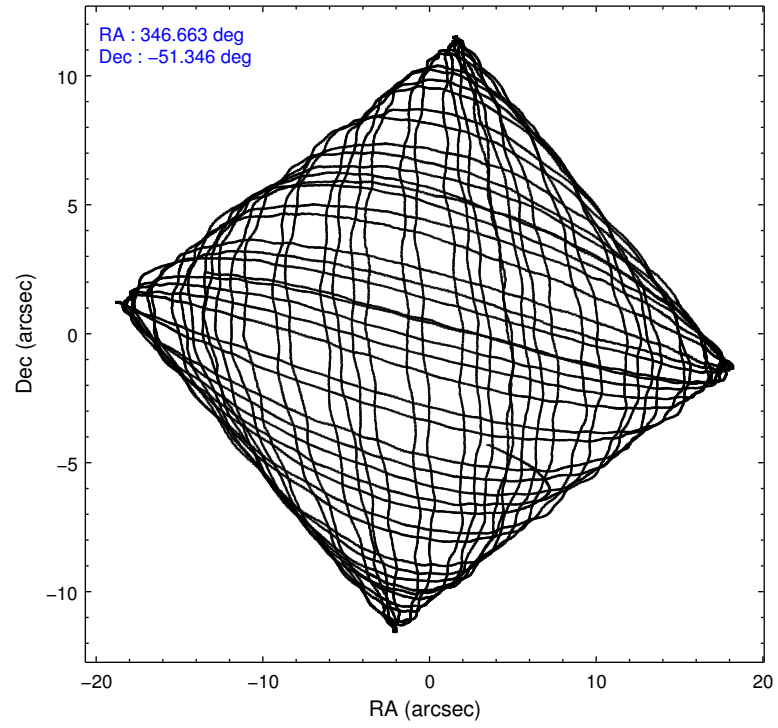
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	142509	149603	159994	152291	162791
rejected events	125436	125774	143263	136323	145683
rejected %	88%	84%	89%	89%	89%

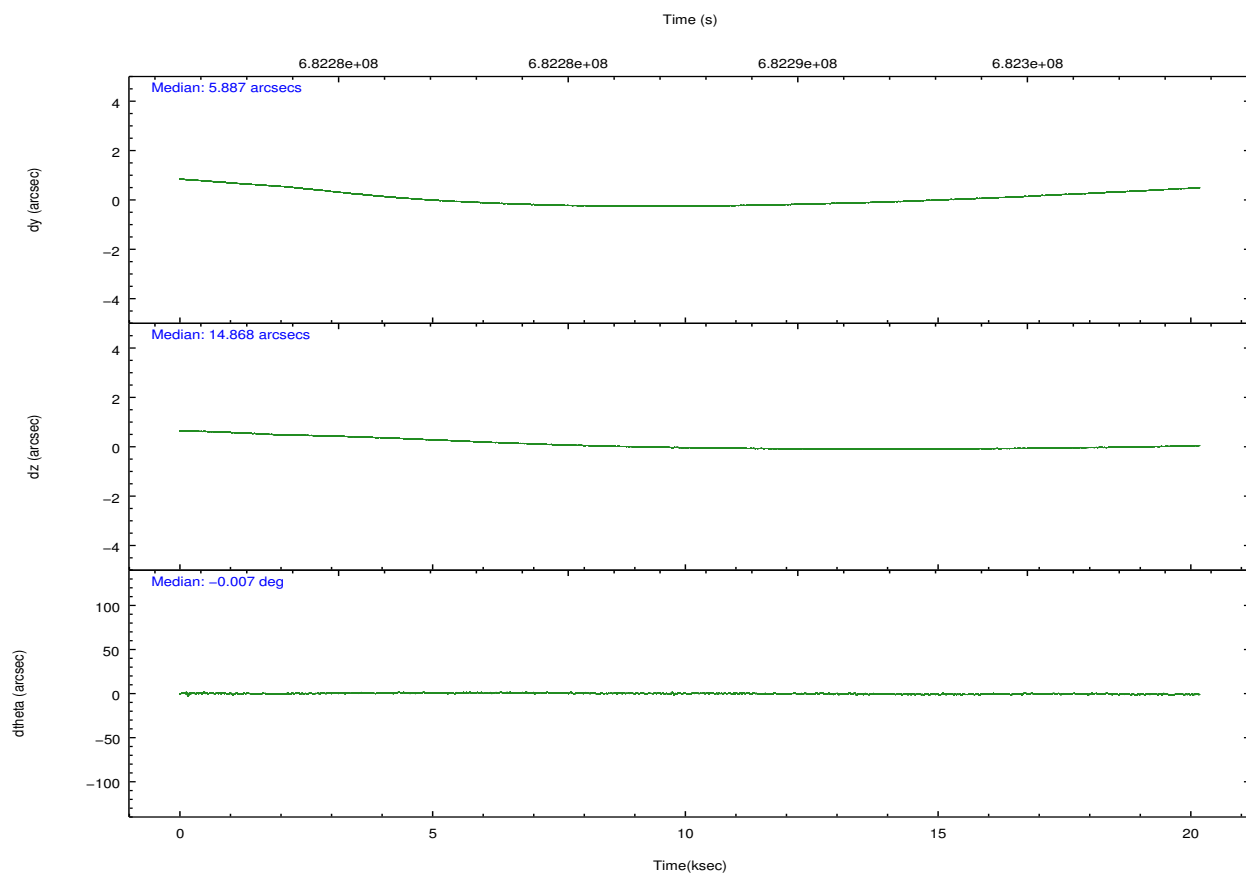
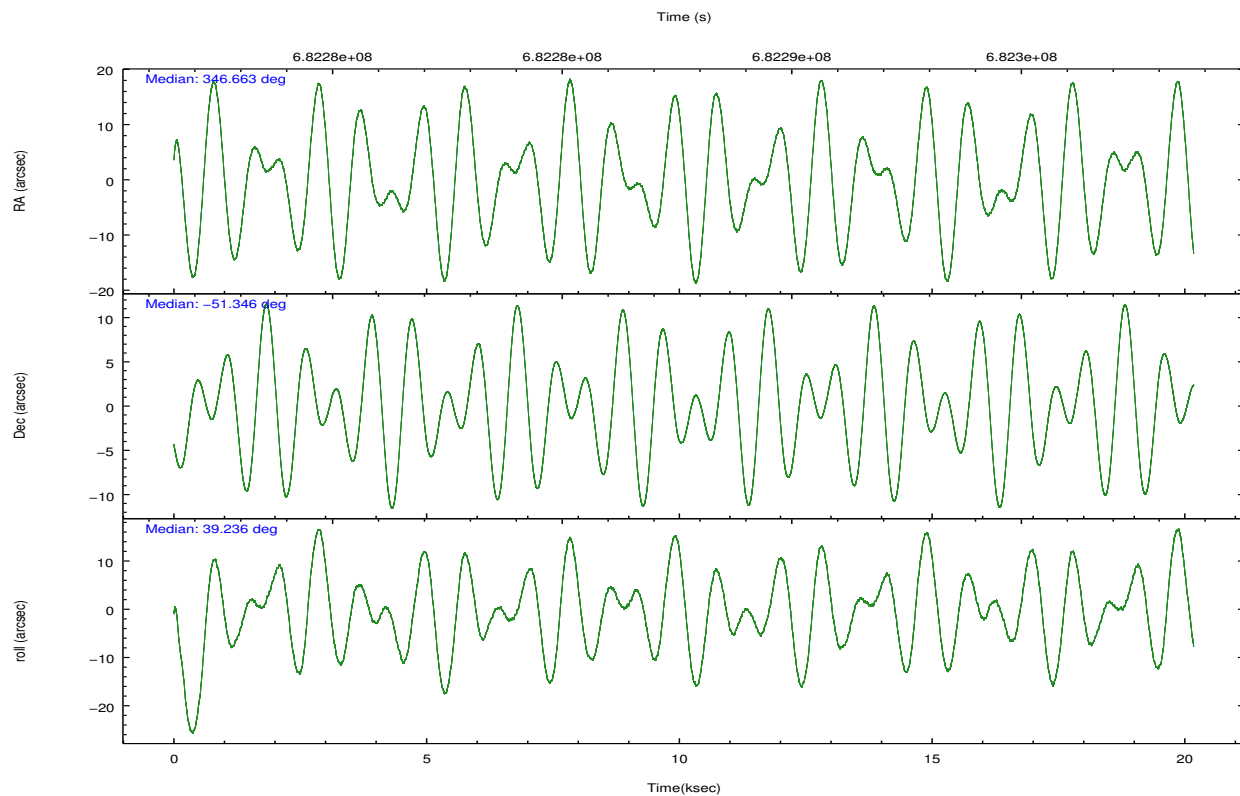
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	5492	6583	5828	5523	5188
	3%	4%	3%	3%	3%
grade 1 events	73	93	92	84	66
	0%	0%	0%	0%	0%
grade 2 events	4406	9226	4148	3483	4375
	3%	6%	2%	2%	2%
grade 3 events	1816	1775	1661	1633	1484
	1%	1%	1%	1%	0%
grade 4 events	1634	1665	1707	1742	1535
	1%	1%	1%	1%	0%
grade 5 events	6601	6598	6529	7315	6510
	4%	4%	4%	4%	3%
grade 6 events	3727	4586	3389	3588	4526
	2%	3%	2%	2%	2%
grade 7 events	118760	119077	136640	128923	139107
	83%	79%	85%	84%	85%

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	346.646925	346.6624388155724	CCD I2 on	Y	Y
[deg] Pointing Dec	-51.371650	-51.34581383657567	CCD I3 on	Y	Y
[deg] Pointing Roll	39.024933	39.24574038050804	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	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	682277732.184000	682276881.71038	CCD S5 on	N	N
Observation start date	2019-08-15T17:34:23	2019-08-15T17:21:21	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	682297732.184000	682298680.8991899	On-chip summing requested	N	N
Observation end date	2019-08-15T23:07:43	2019-08-15T23:24:40	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



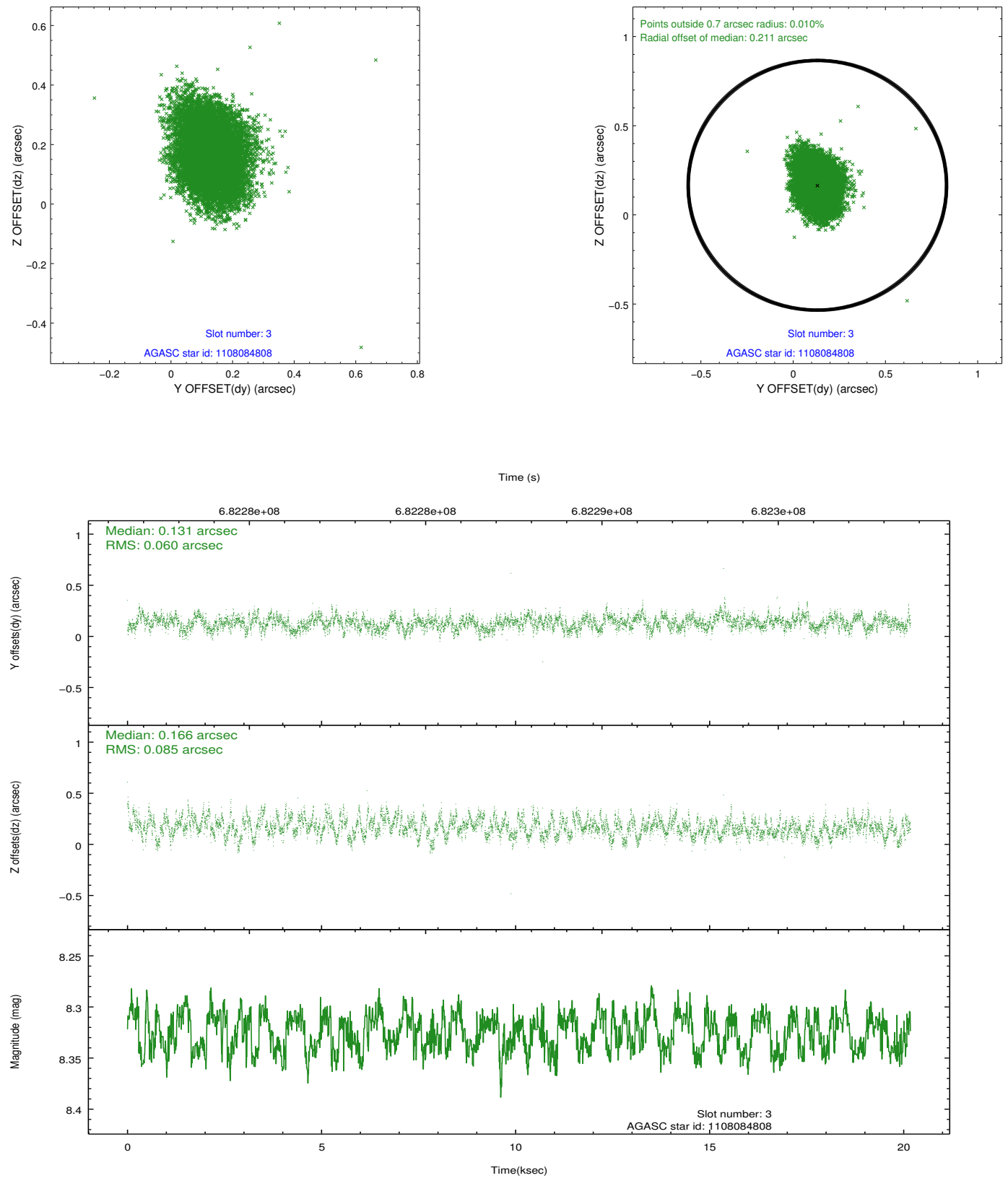


Slot Statistics

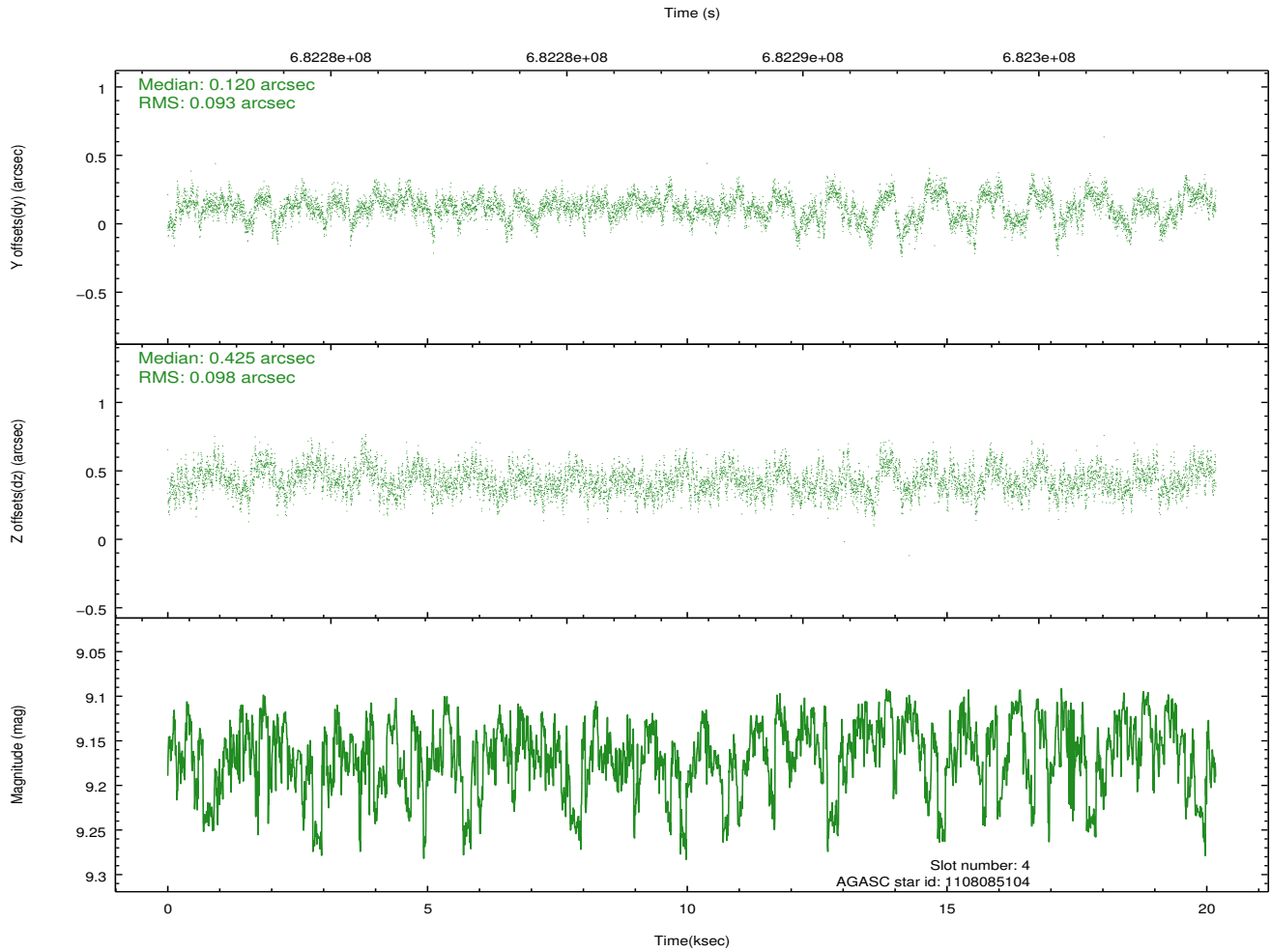
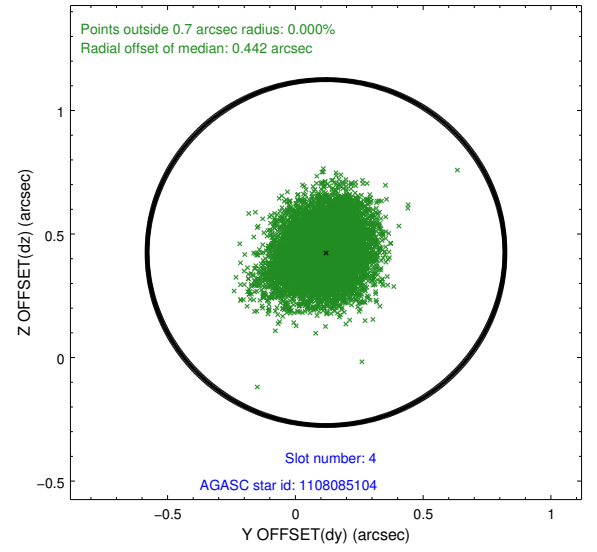
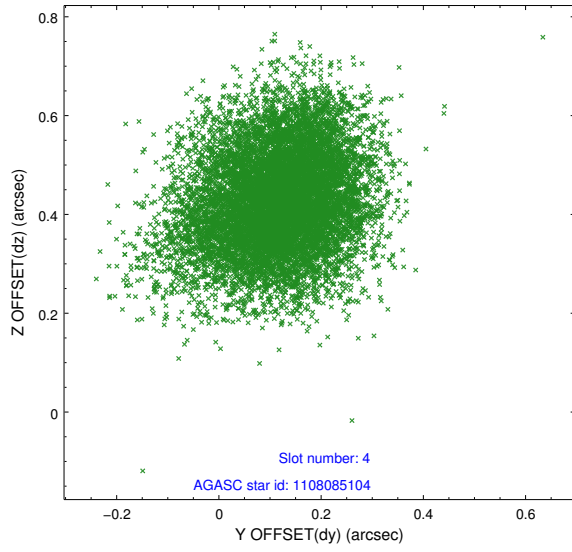
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.17	4921	1.000	0.105	-0.127	0.012	0.037	0.000000	0.000000	933.92	-838
1	FID		ACIS-I-5	7.13	4921	1.000	-0.419	0.030	0.009	0.021	0.000000	0.000000	-1814.78	1058
2	FID		ACIS-I-6	7.15	4921	1.000	0.223	0.168	0.012	0.034	0.000000	0.000000	399.15	1703
3	GUIDE	used	1108084808	8.32	9837	1.000	0.131	0.166	0.110	0.182	347.231879	-51.918728	-234.52	-2351
4	GUIDE	used	1108085104	9.17	9832	1.000	0.120	0.425	0.144	0.233	346.689033	-52.147186	-1684.88	-2227
5	GUIDE	used	1108088128	8.31	9840	1.000	-0.141	-0.235	0.080	0.130	347.215680	-51.117696	1570.78	-103
6	GUIDE	used	1108089360	8.08	9840	1.000	-0.009	0.160	0.102	0.170	345.425414	-51.468379	-2364.09	1436
7	GUIDE	used	1108092080	9.45	9834	1.000	-0.091	-0.519	0.173	0.275	345.525994	-51.111179	-1390.19	2308

2.4 Star Slots

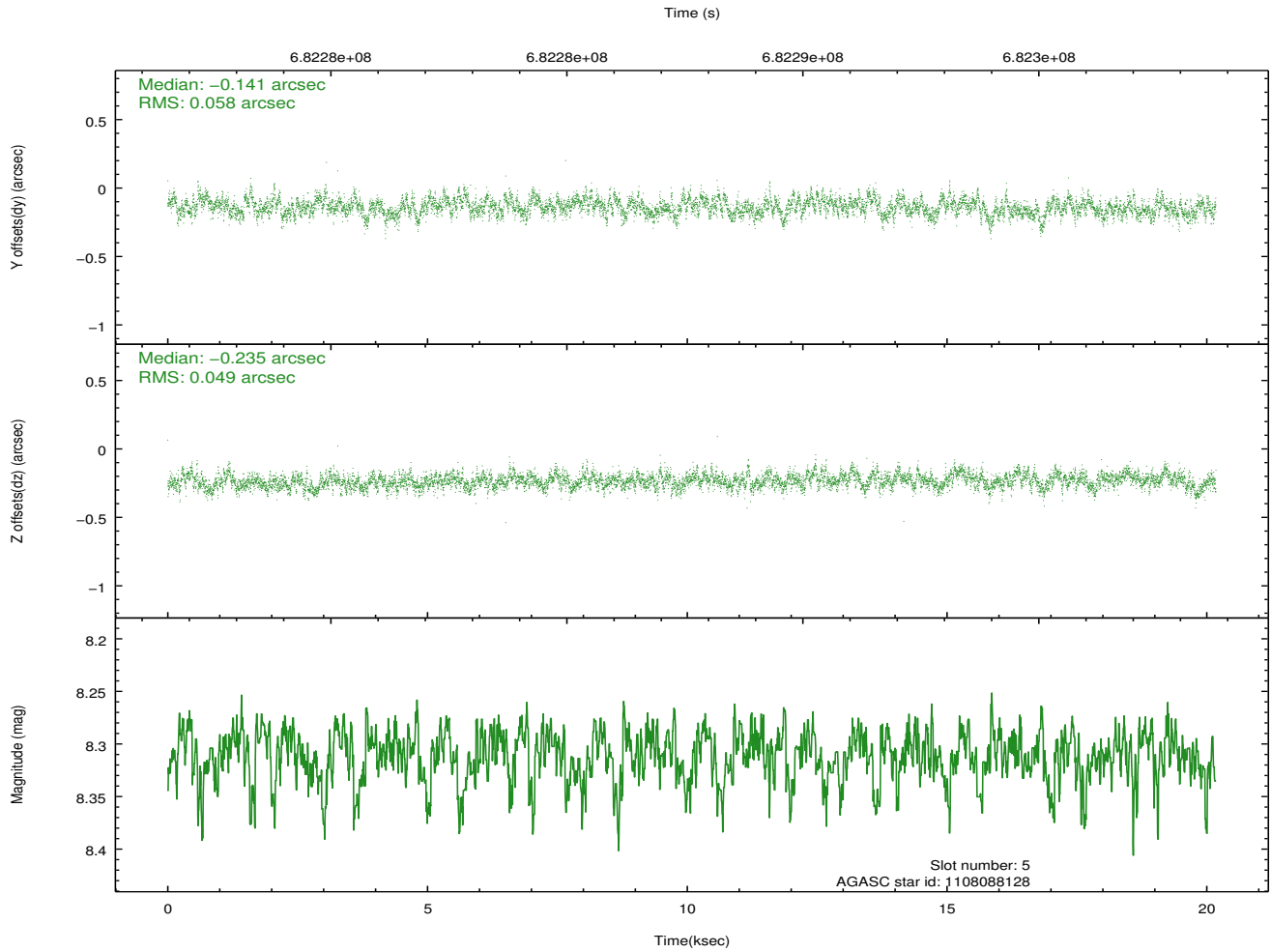
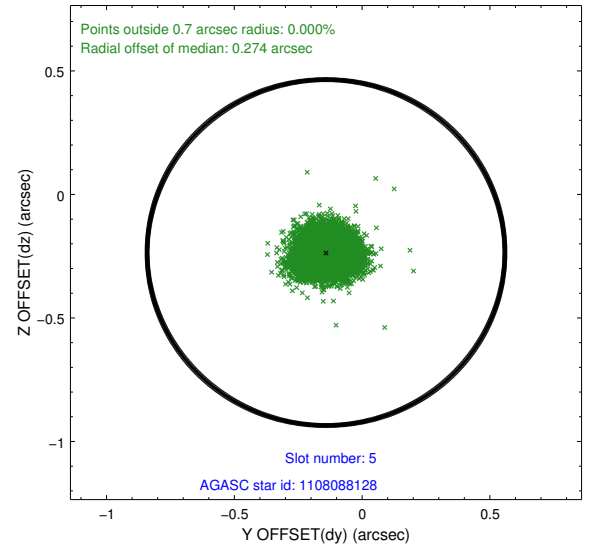
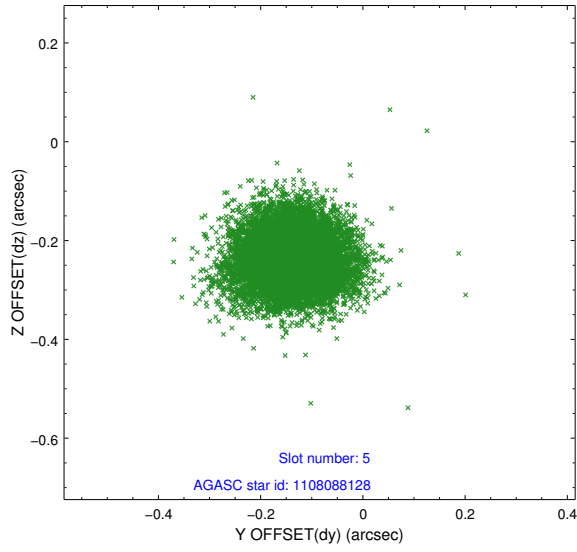
2.4.1 Slot 3



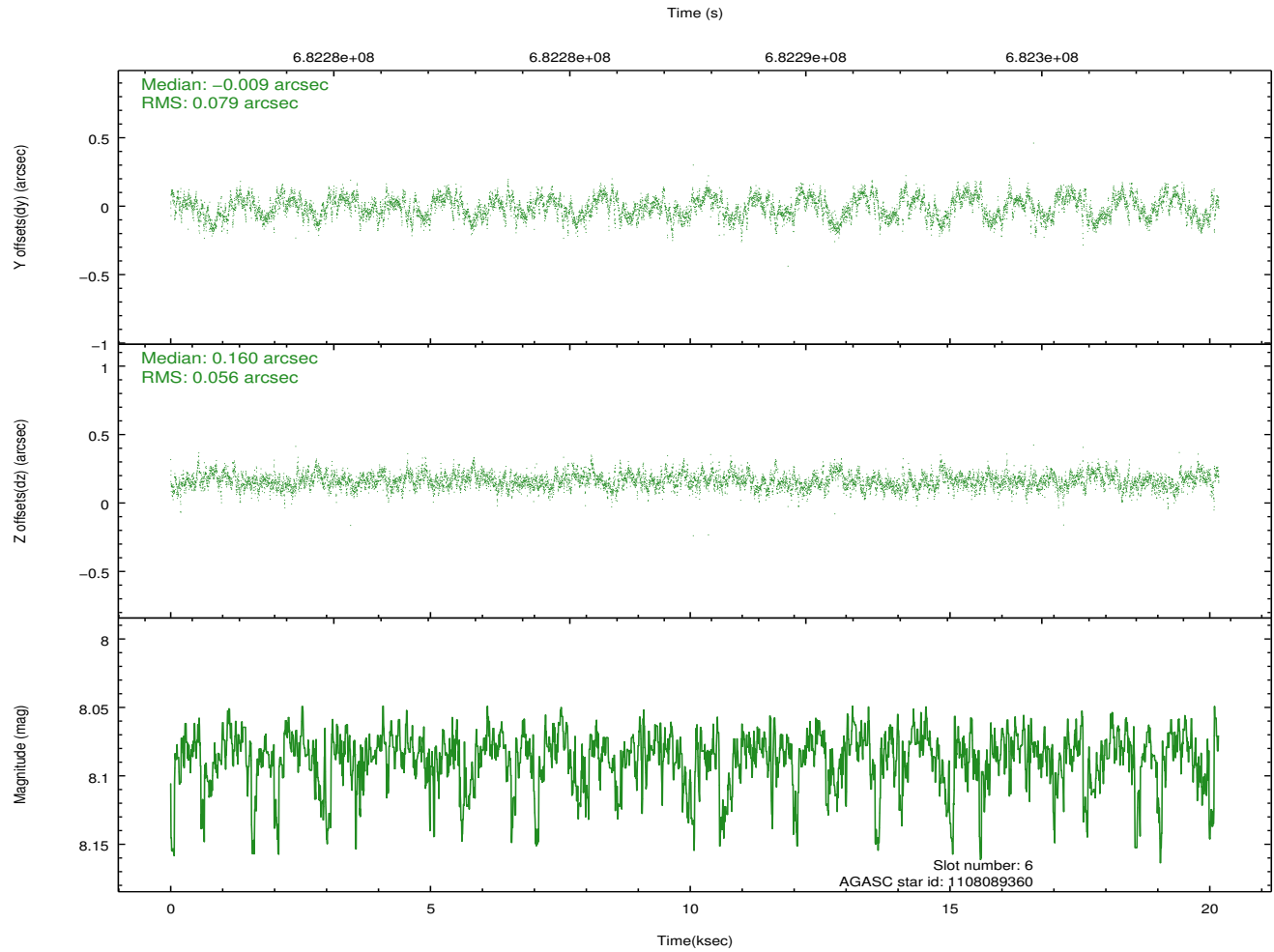
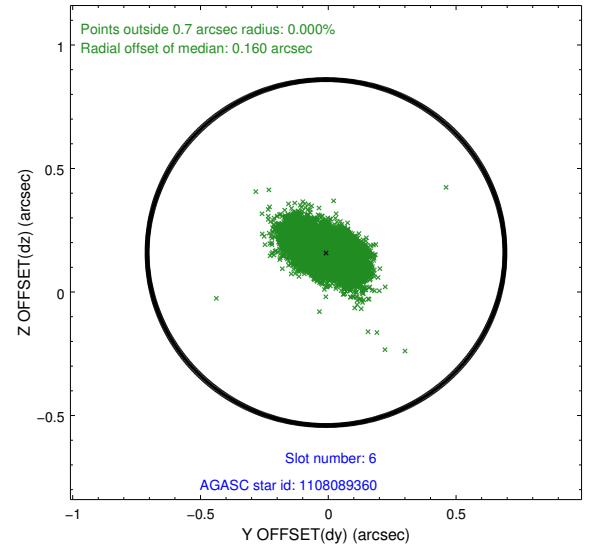
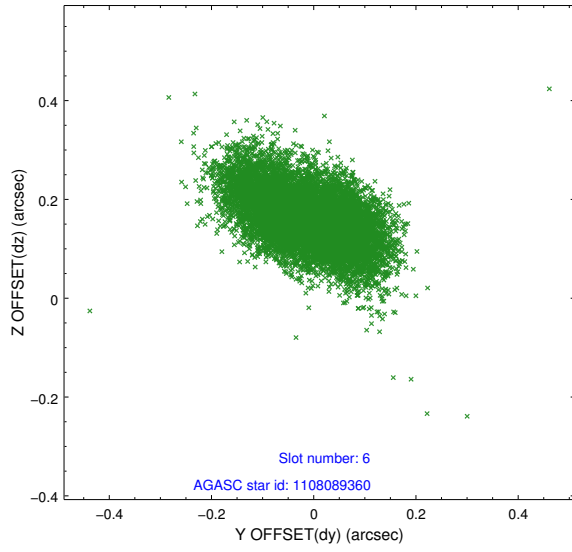
2.4.2 Slot 4



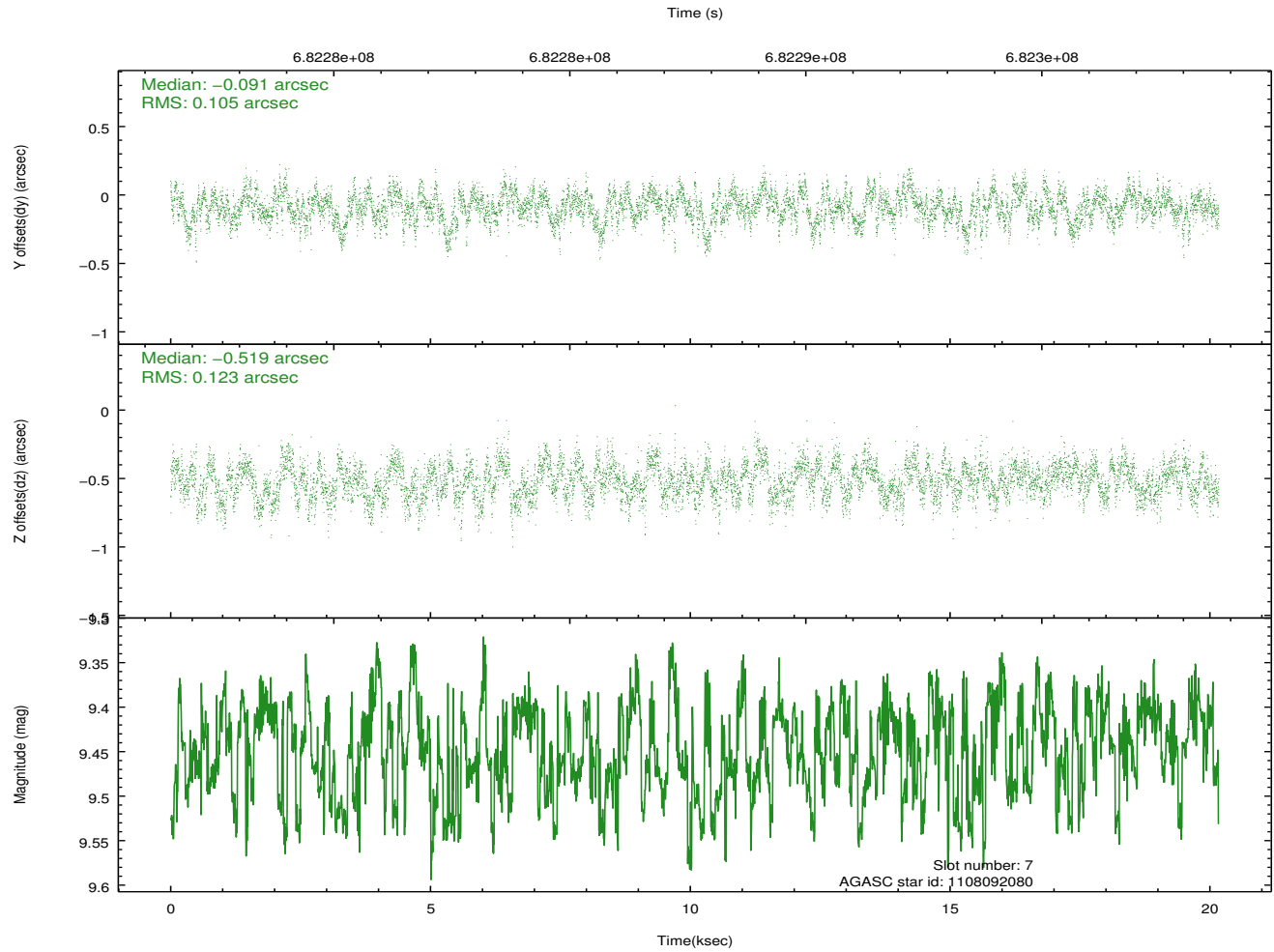
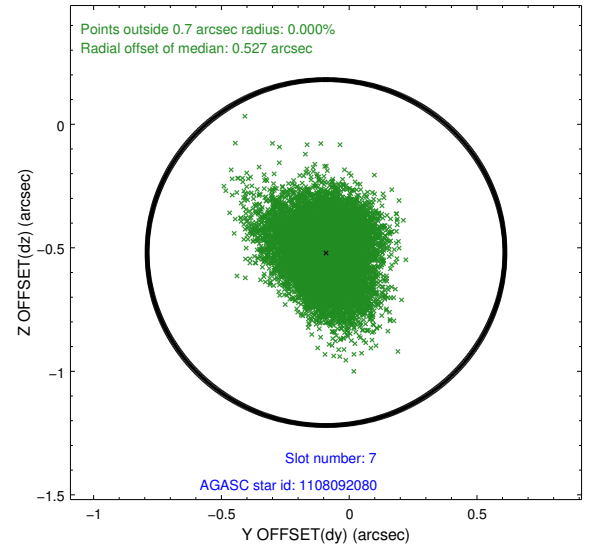
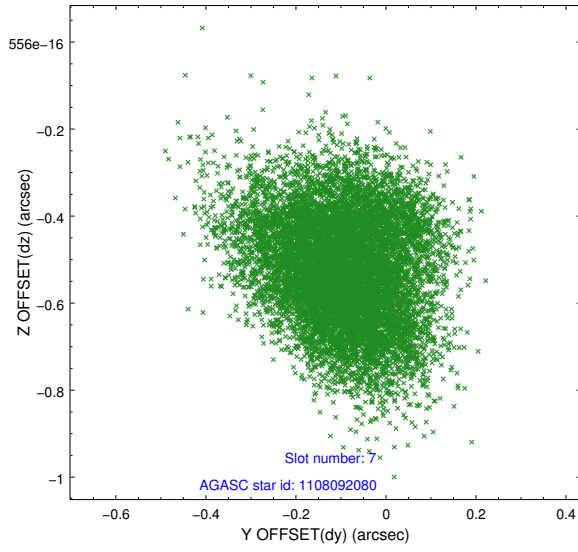
2.4.3 Slot 5



2.4.4 Slot 6

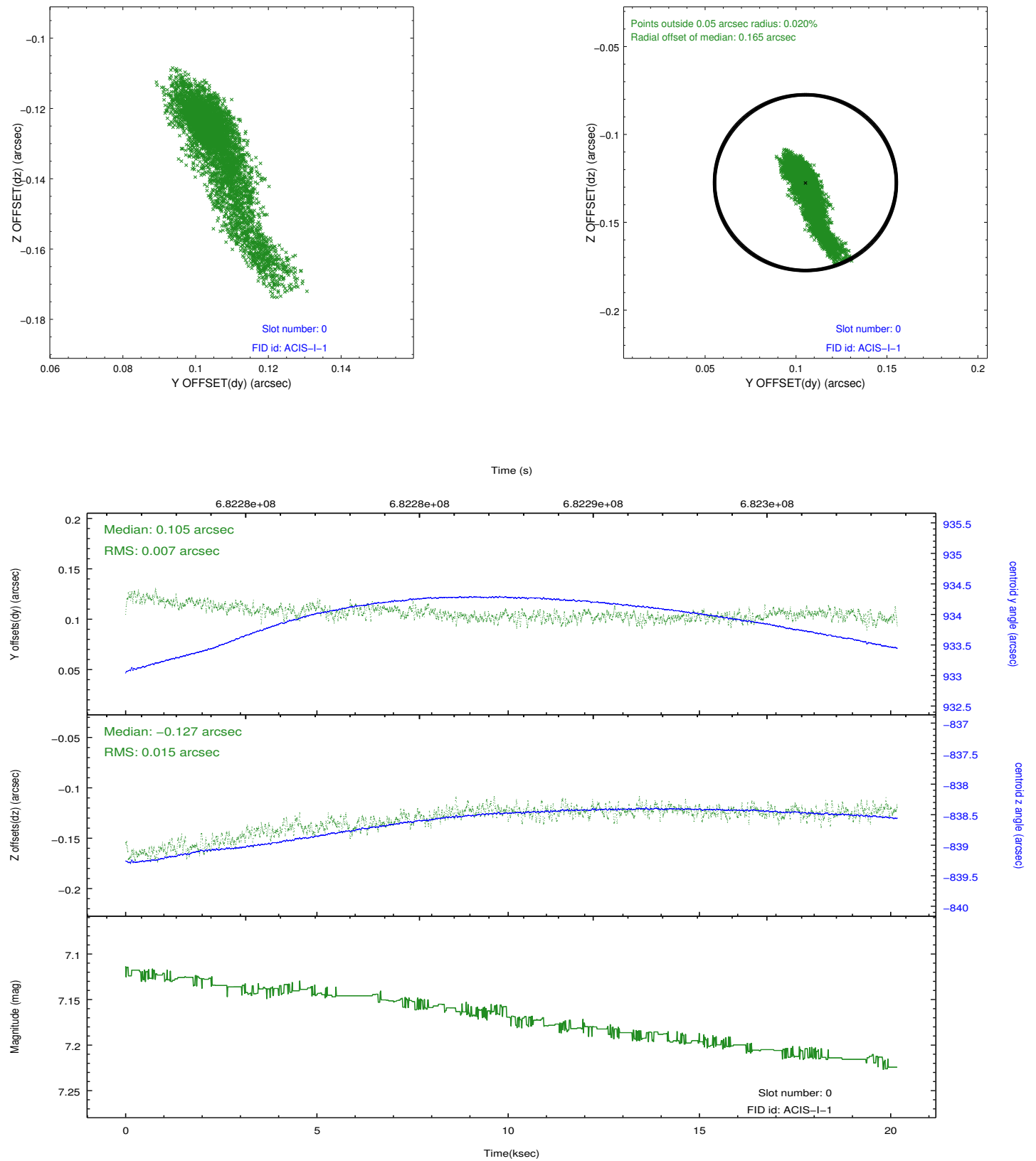


2.4.5 Slot 7

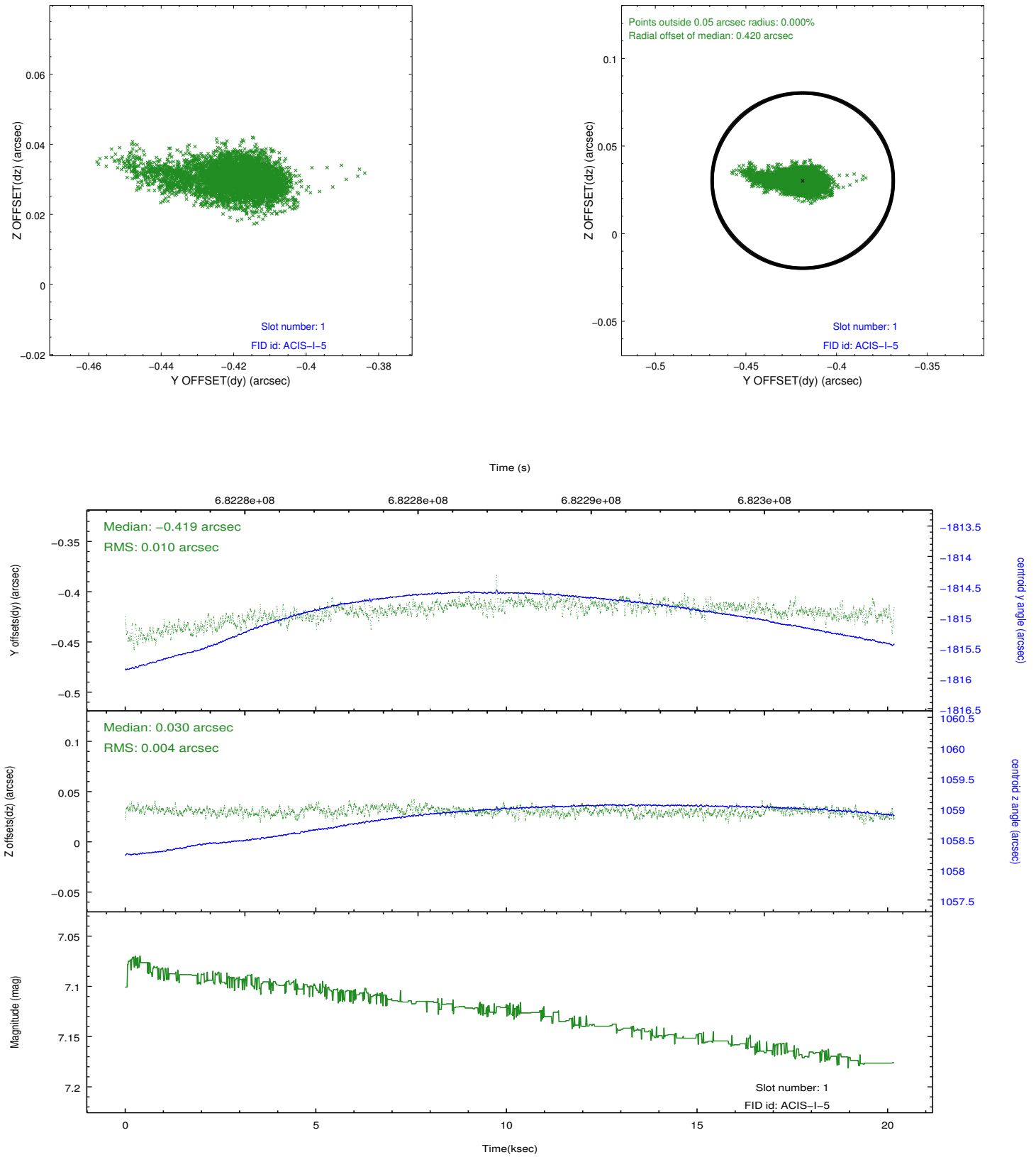


2.5 FID Slots

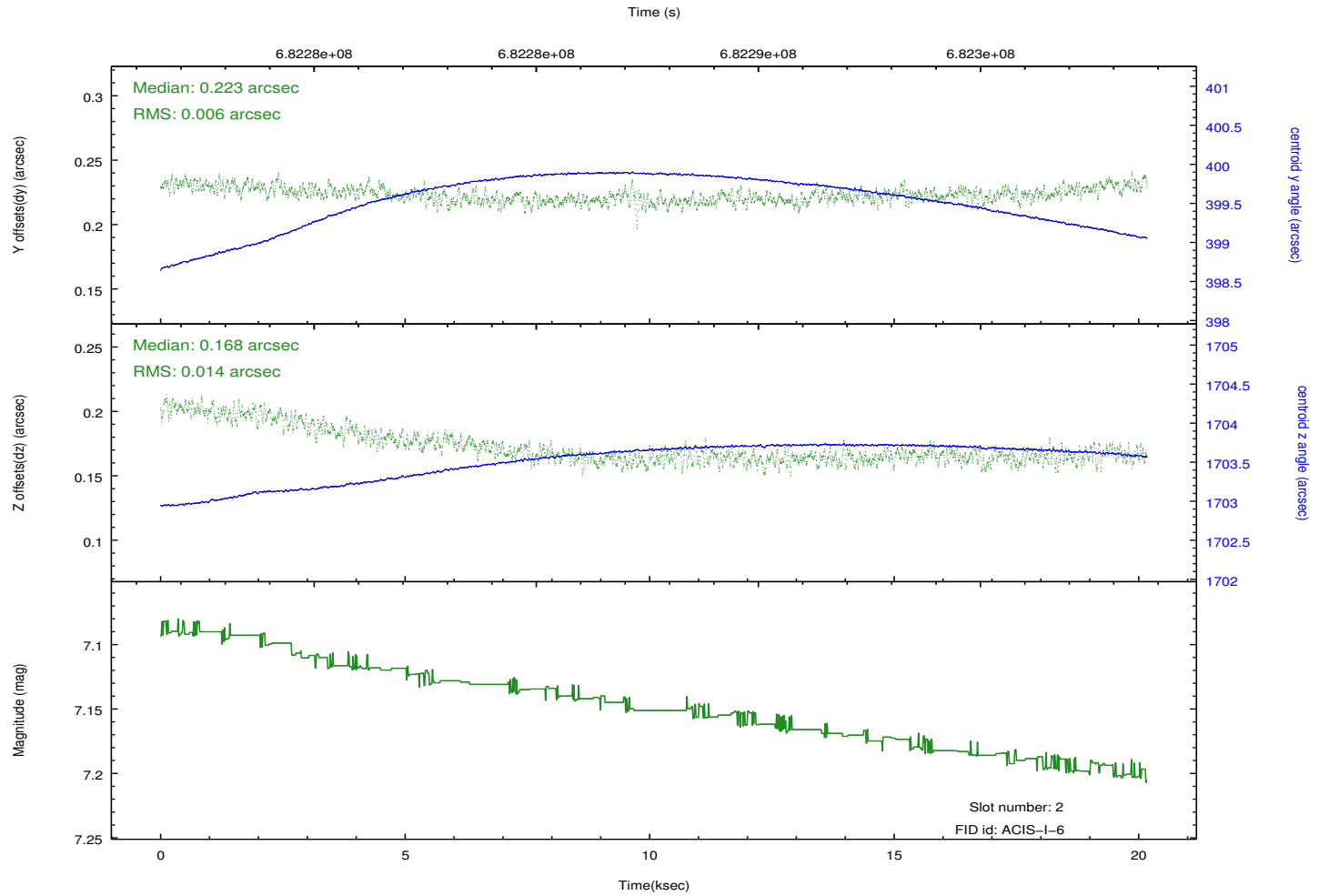
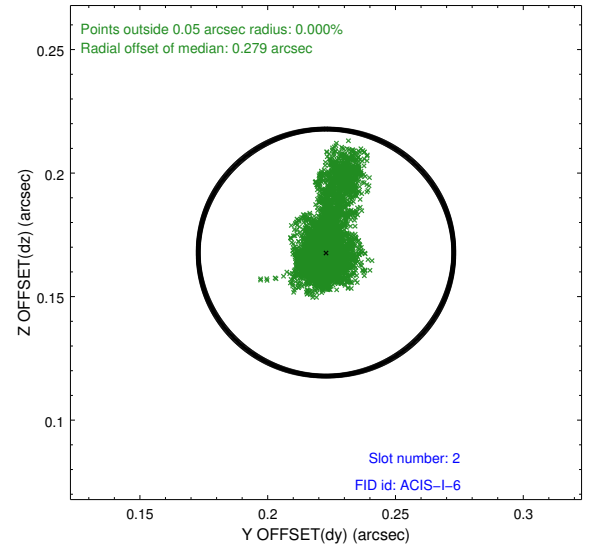
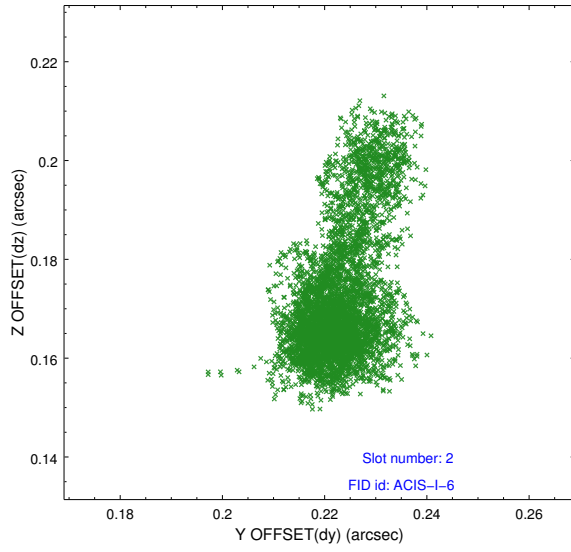
2.5.1 Slot 0



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)	2019.08.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.06797358942

A.2 Comments