

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 22399 - L2 Version 1
Chandra X-Ray Center

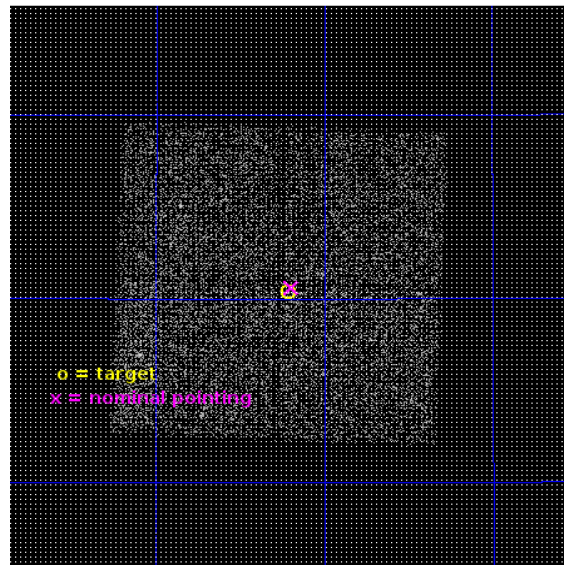
L2 Processing Date : Sep 2 2019

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1 Front

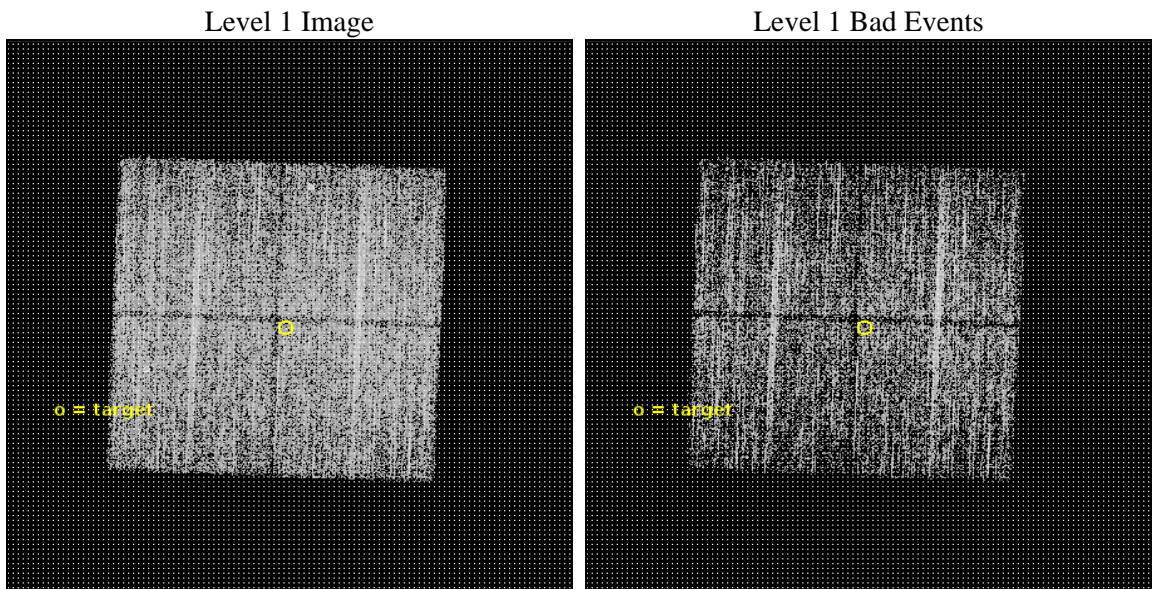
seq_num	402164	Sequence number
obs_id	22399	Observation id
title	A step towards revealing the population of quiescent black holes	P
observer	Ma ca Clavel	Principal investigator
object	GS 4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	74.053333	Observer's specified target RA [deg]
dec_targ	54.005911	Observer's specified target Dec [deg]
ra_nom	74.048731017228	Nominal RA [deg]
dec_nom	54.010016481604	Nominal Dec [deg]
roll_nom	92.245618765448	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5077.2145024538	Sum of GTIs [s]
livetime	5010.8769571883	Livetime [s]
ontime0	5077.0913825035	Sum of GTIs [s]
ontime1	5077.1324224472	Sum of GTIs [s]
ontime2	5077.1734625101	Sum of GTIs [s]
ontime3	5077.2145024538	Sum of GTIs [s]
l2events	13953	Number of level 2 events



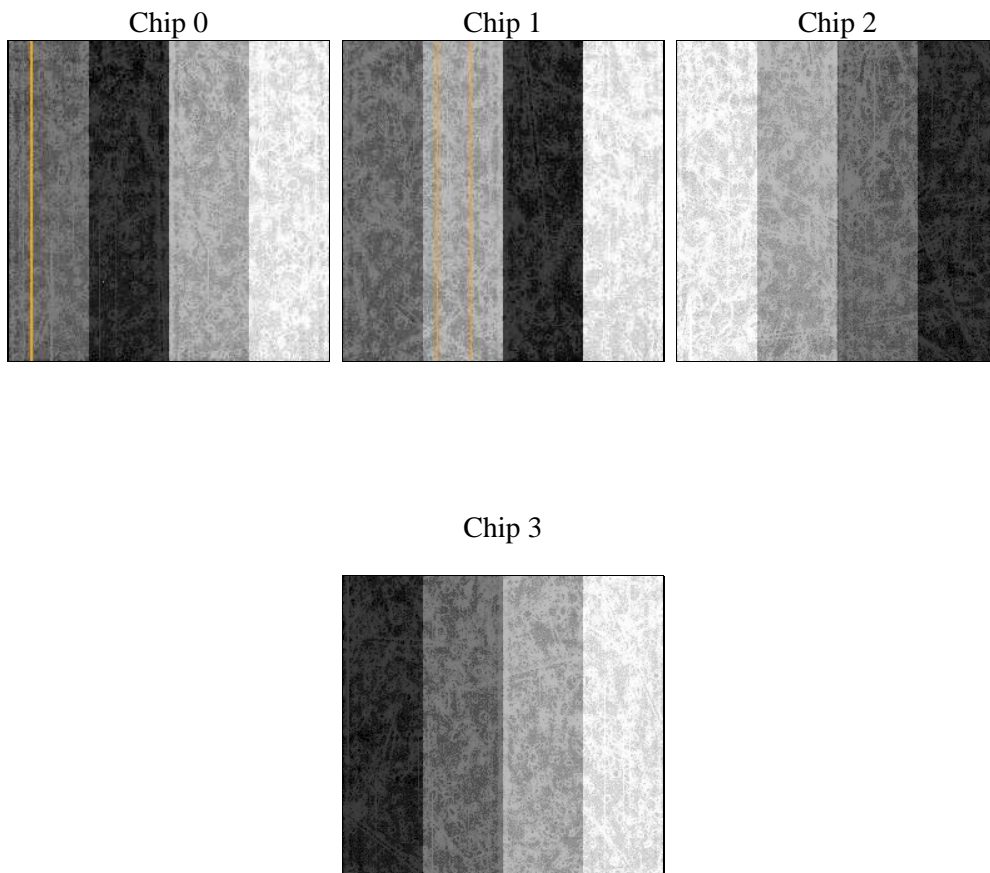
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	5077.2145024538	Sum of GTIs [s]
caldsver	4.8.4	 	ontime0	5077.0913825035	Sum of GTIs [s]
date	2019-09-02T13:20:03	Date and time of file creation	ontime1	5077.1324224472	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5077.1734625101	Sum of GTIs [s]
			ontime3	5077.2145024538	Sum of GTIs [s]
			l1events	150004	Number of level 1 events

2.1.4 Events

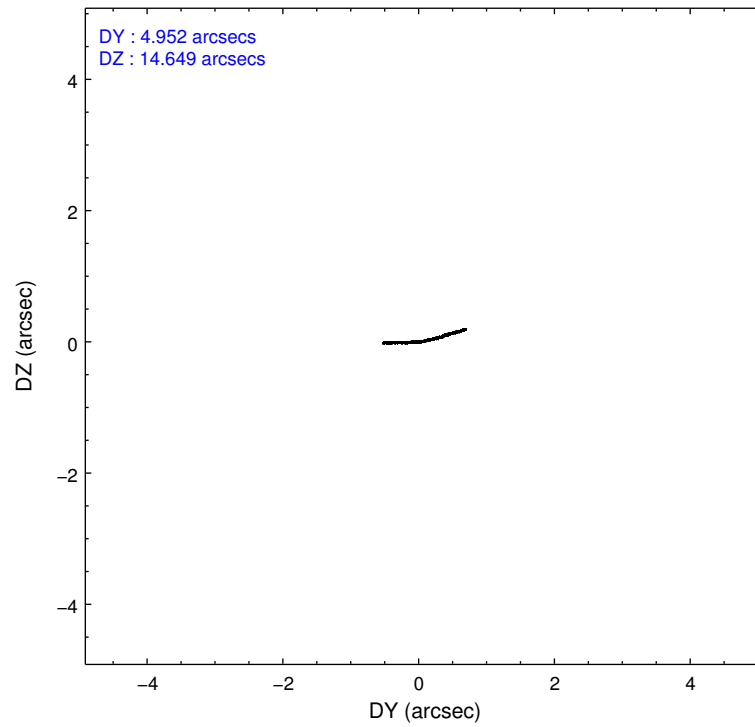
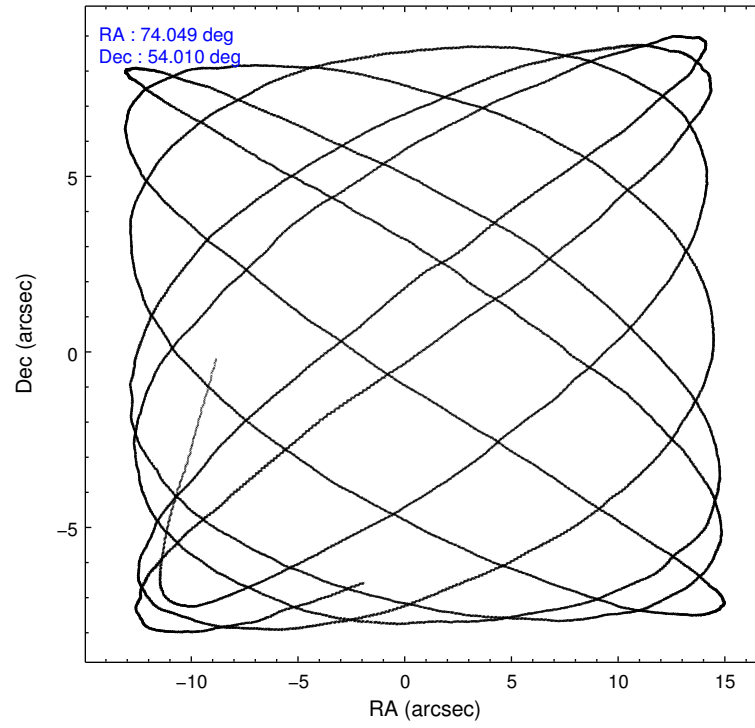
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	36627	35403	39746	38228
rejected events	32507	30399	35830	34339
rejected %	88%	85%	90%	89%

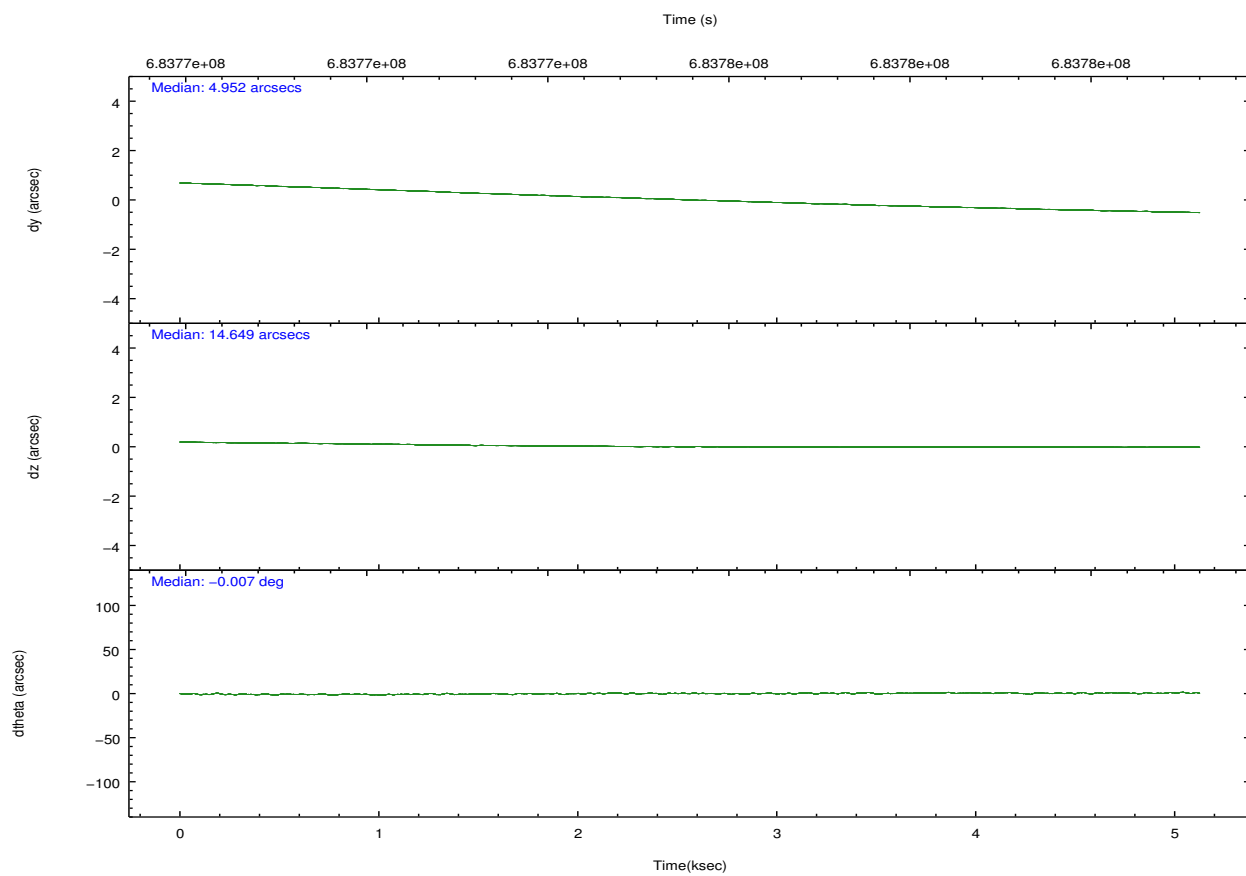
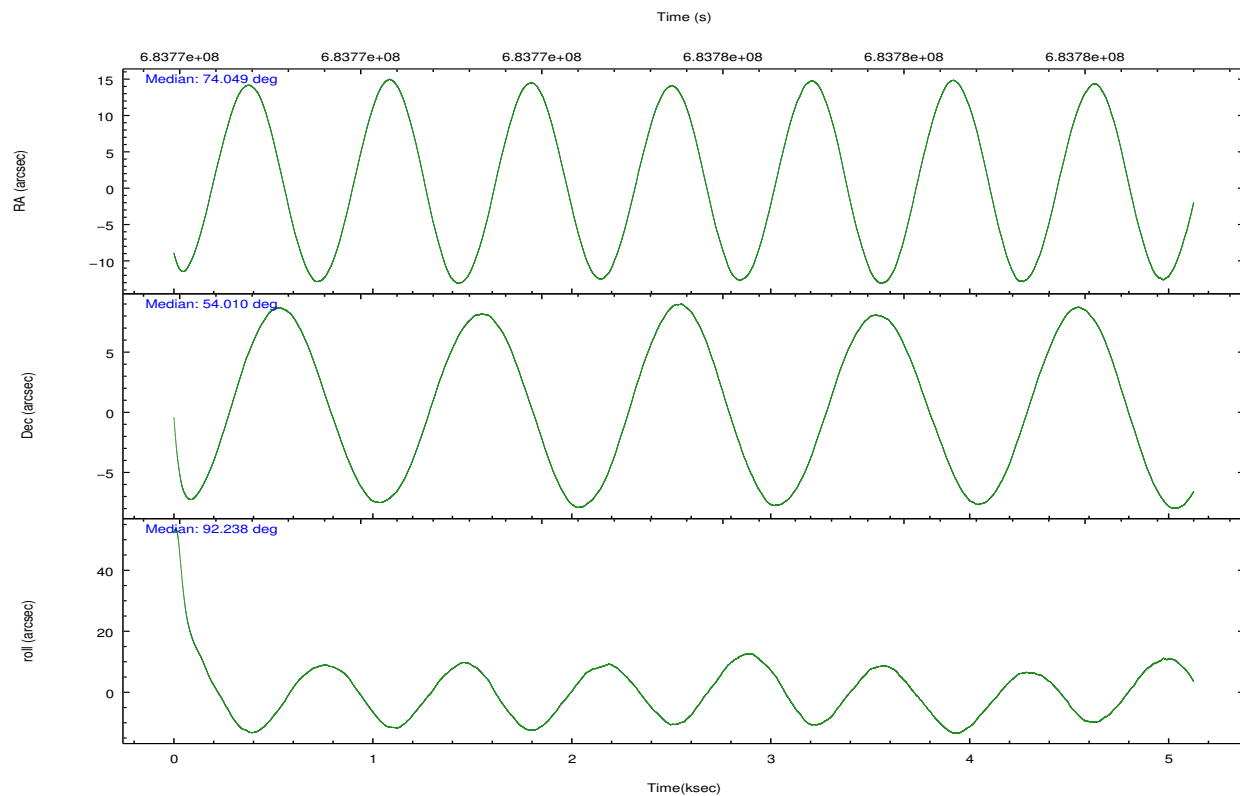
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1329	1585	1432	1310
	3%	4%	3%	3%
grade 1 events	19	23	17	20
	0%	0%	0%	0%
grade 2 events	1113	1459	929	834
	3%	4%	2%	2%
grade 3 events	371	364	360	398
	1%	1%	0%	1%
grade 4 events	363	375	371	405
	0%	1%	0%	1%
grade 5 events	1497	1468	1397	1653
	4%	4%	3%	4%
grade 6 events	949	1225	827	943
	2%	3%	2%	2%
grade 7 events	30986	28904	34413	32665
	84%	81%	86%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	74.074029	74.04873101722767	Subarray requested	NONE	NONE
[deg] Pointing Dec	53.986765	54.01001648160364	Alternating exposures requested	N	N
[deg] Pointing Roll	92.016371	92.2456187654477	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	683772326.184000	683771153.45026			
Observation start date	2019-09-02T00:44:17	2019-09-02T00:25:53			
[s] Observation end time (MET)	683777326.184000	683778780.98822			
Observation end date	2019-09-02T02:07:37	2019-09-02T02:33:00			
Read mode	TIMED	TIMED			

2.3 Aspect



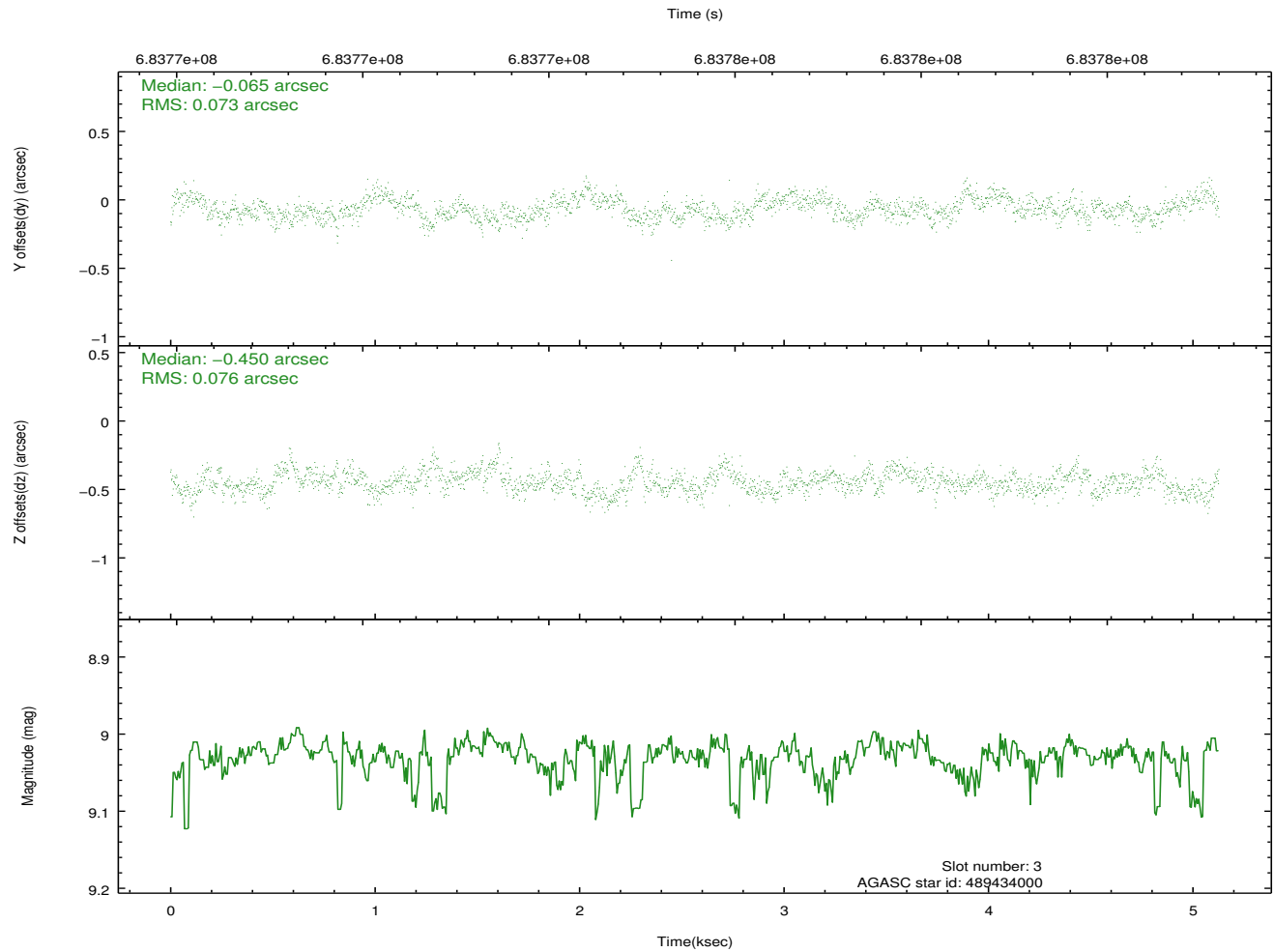
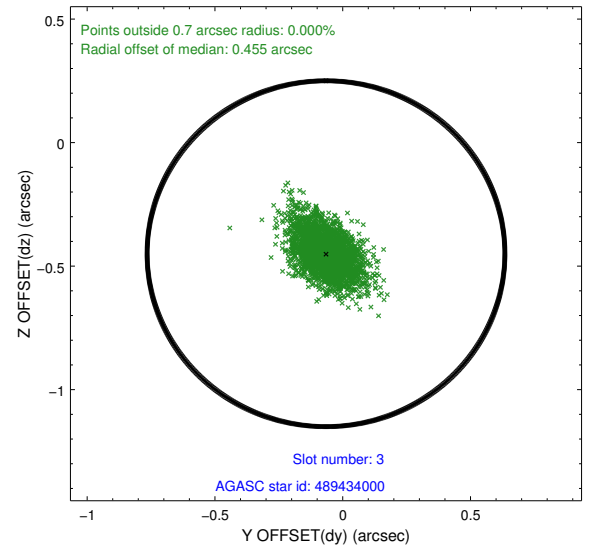
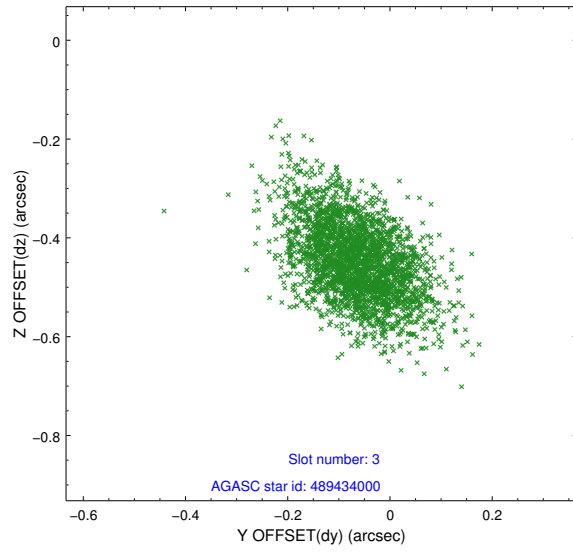


Slot Statistics

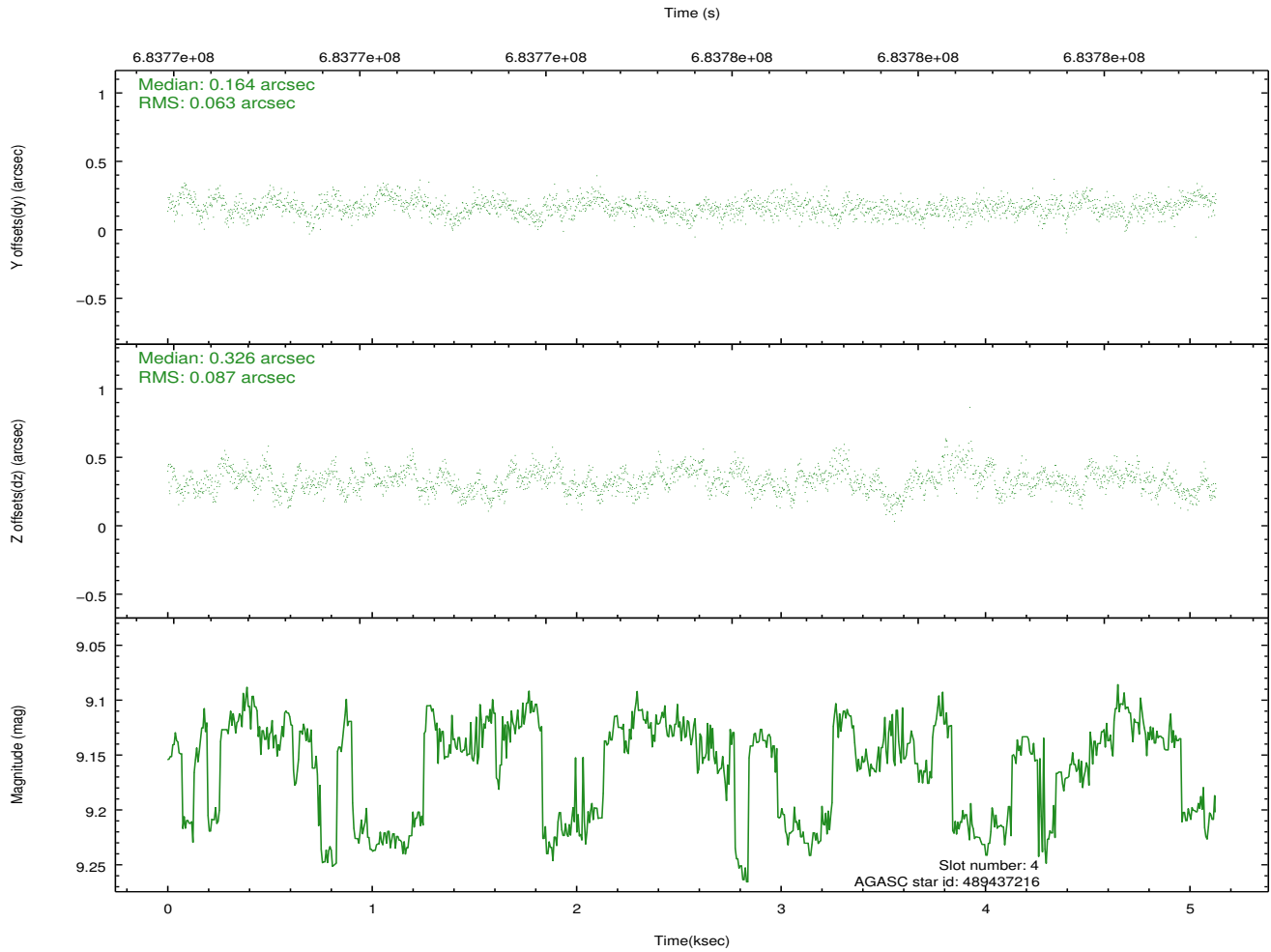
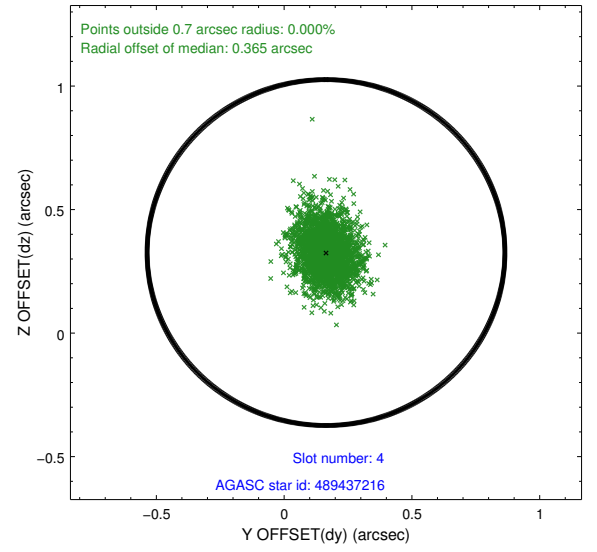
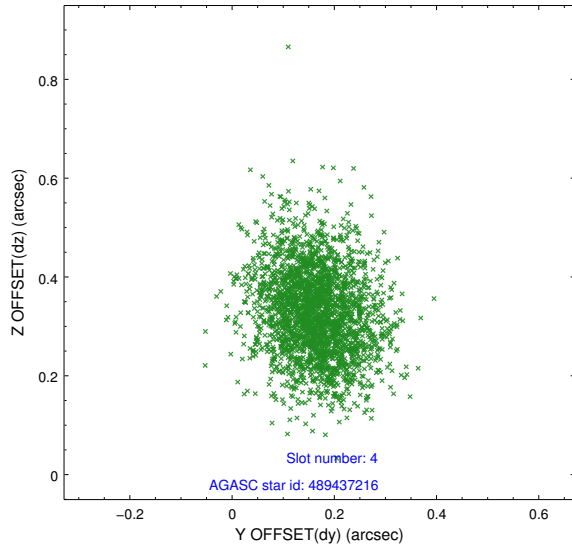
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.25	1251	1.000	0.115	-0.132	0.009	0.016	0.000000	0.000000	934.94	-838
1	FID		ACIS-I-5	7.21	1251	1.000	-0.430	0.038	0.010	0.017	0.000000	0.000000	-1813.22	1058
2	FID		ACIS-I-6	7.23	1251	1.000	0.224	0.165	0.013	0.023	0.000000	0.000000	399.10	1704
3	GUIDE	used	489434000	9.03	2500	1.000	-0.065	-0.450	0.109	0.188	73.632443	53.588766	-1395.89	992
4	GUIDE	used	489437216	9.15	2500	1.000	0.164	0.326	0.114	0.186	74.313158	53.467411	-1885.47	-446
5	GUIDE	used	489439520	8.49	2495	1.000	-0.082	0.167	0.105	0.175	75.190697	54.260918	922.00	-2381
6	GUIDE	used	489958048	8.51	2501	1.000	-0.111	-0.055	0.124	0.223	75.083594	54.553626	1981.21	-2179
7	GUIDE	used	489958264	8.78	2498	1.000	0.094	0.012	0.175	0.313	75.210219	54.584475	2087.93	-2445

2.4 Star Slots

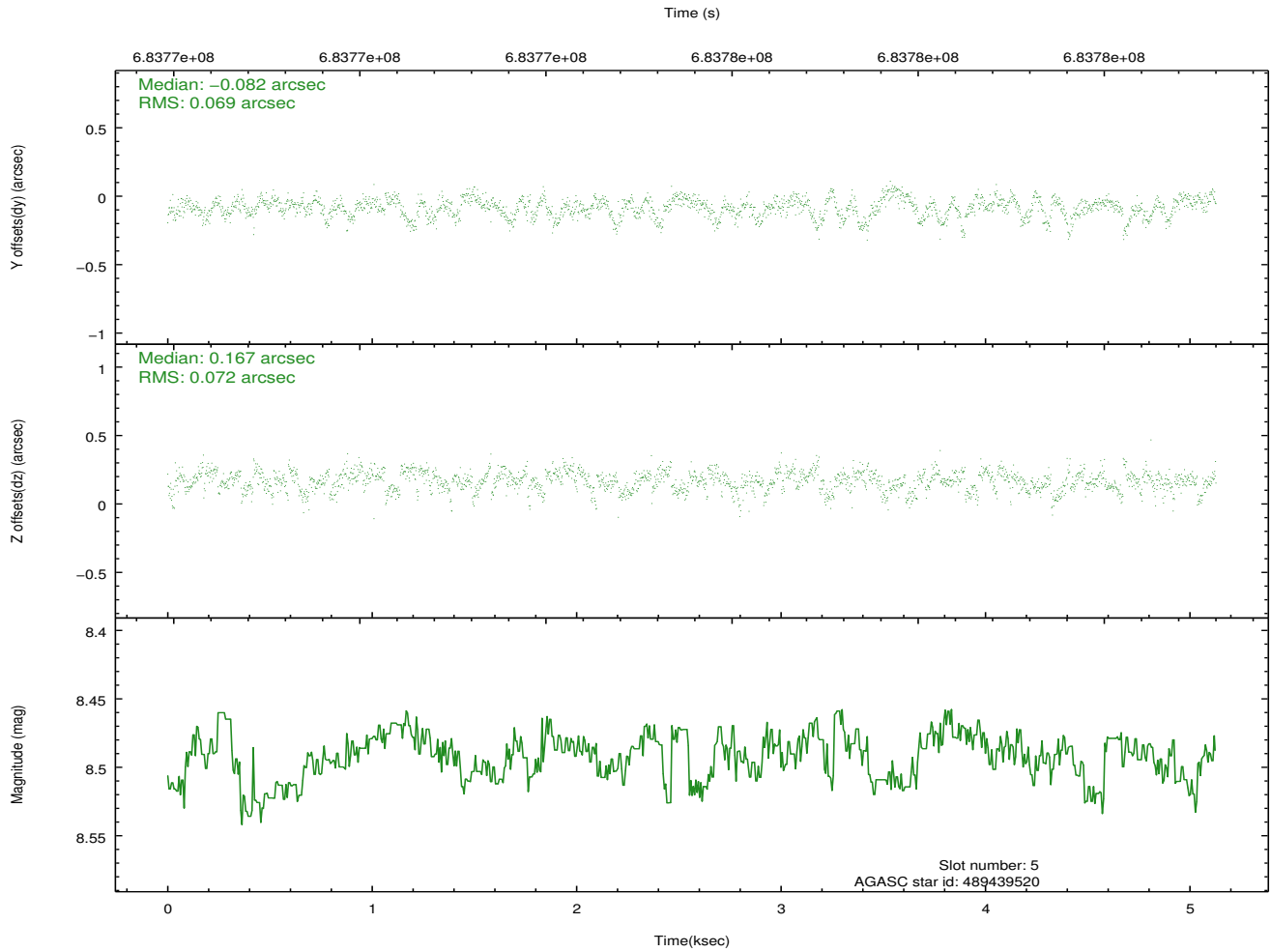
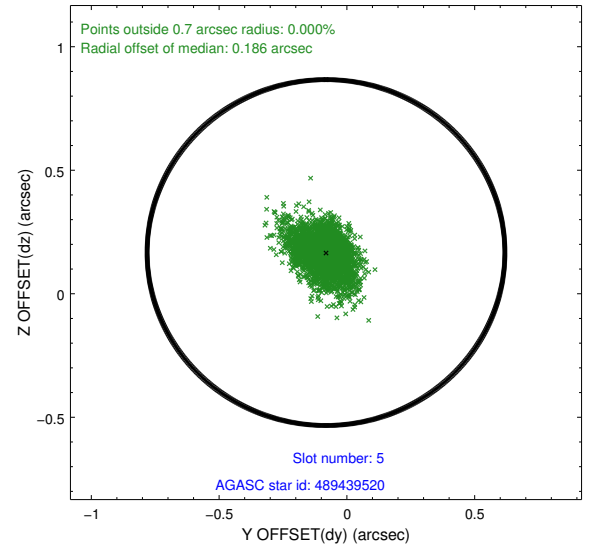
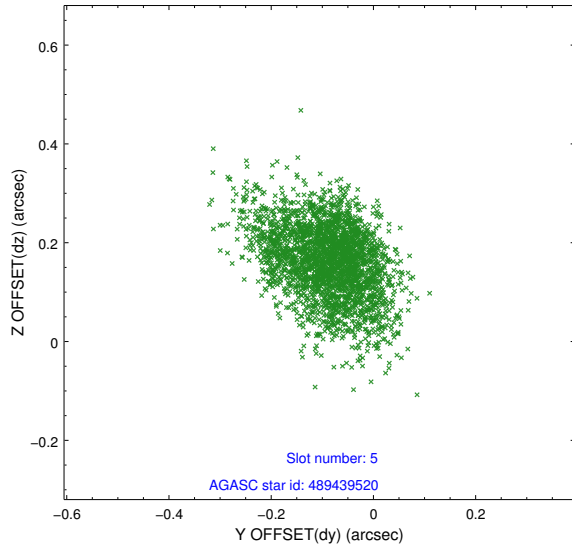
2.4.1 Slot 3



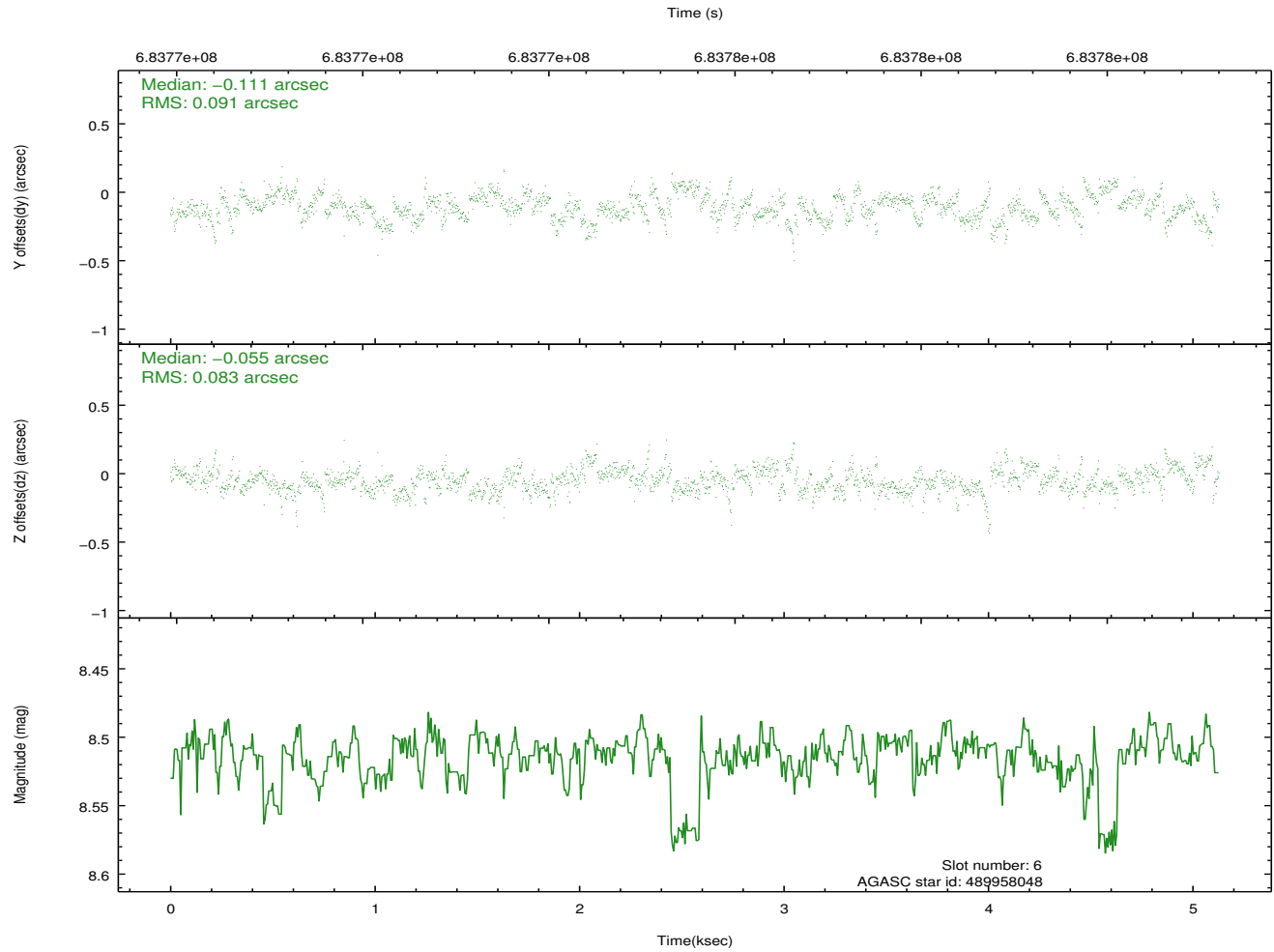
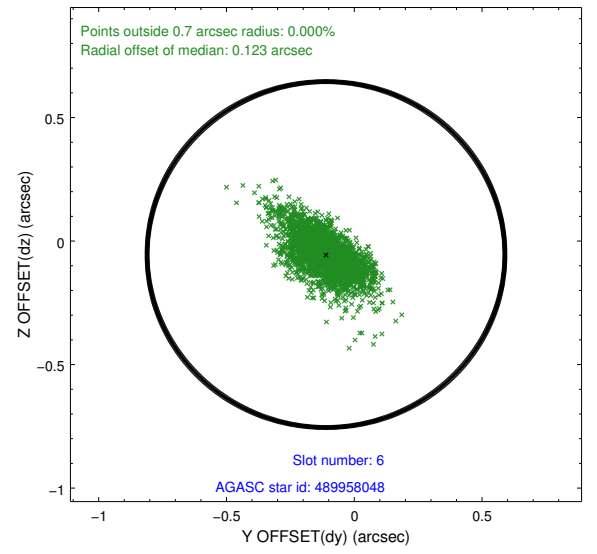
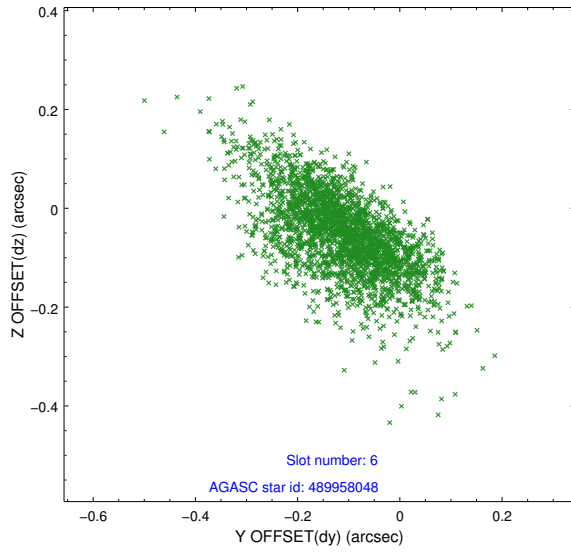
2.4.2 Slot 4



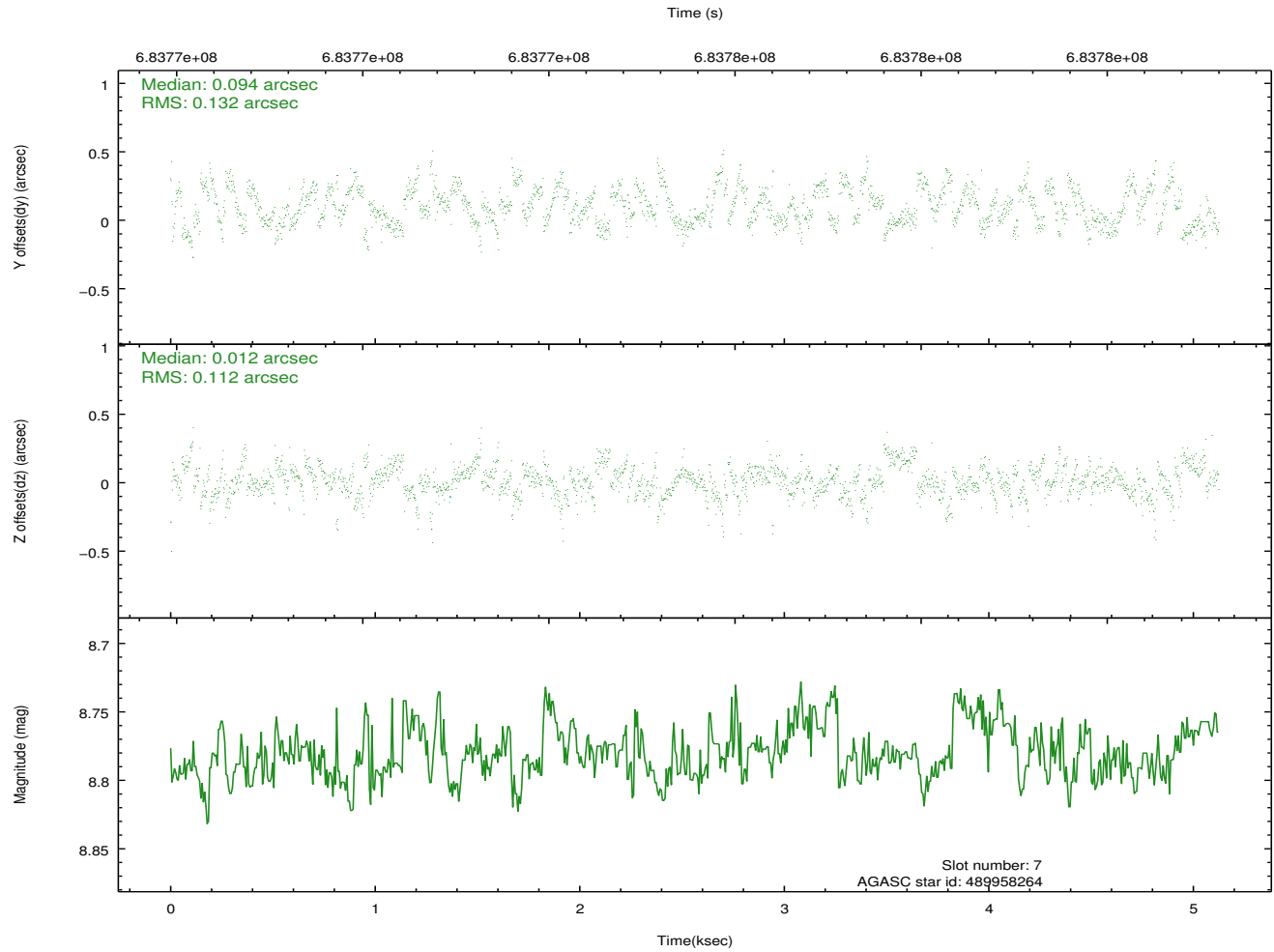
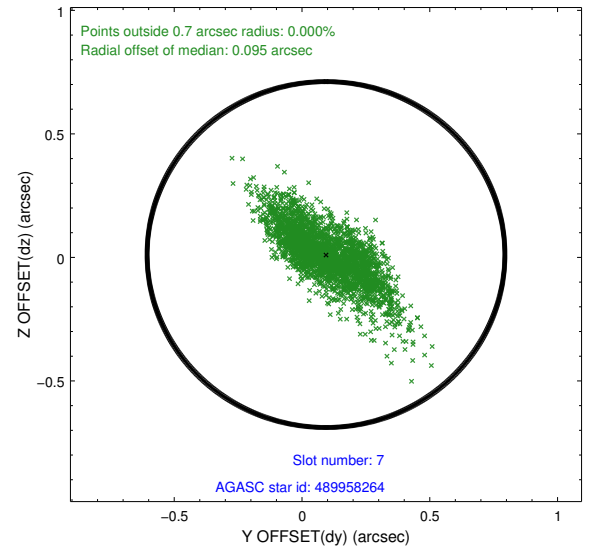
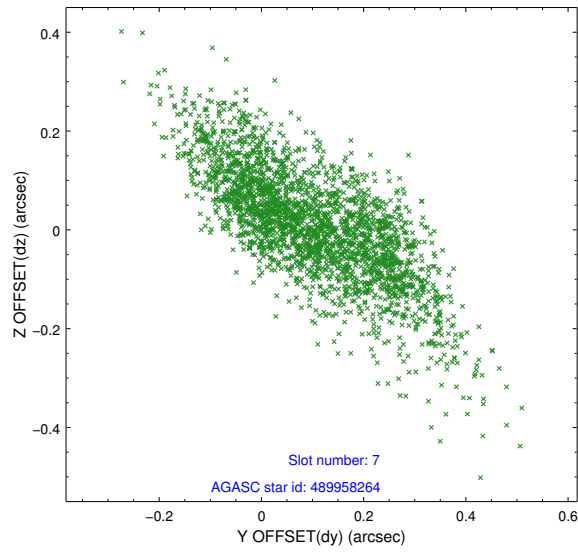
2.4.3 Slot 5



2.4.4 Slot 6

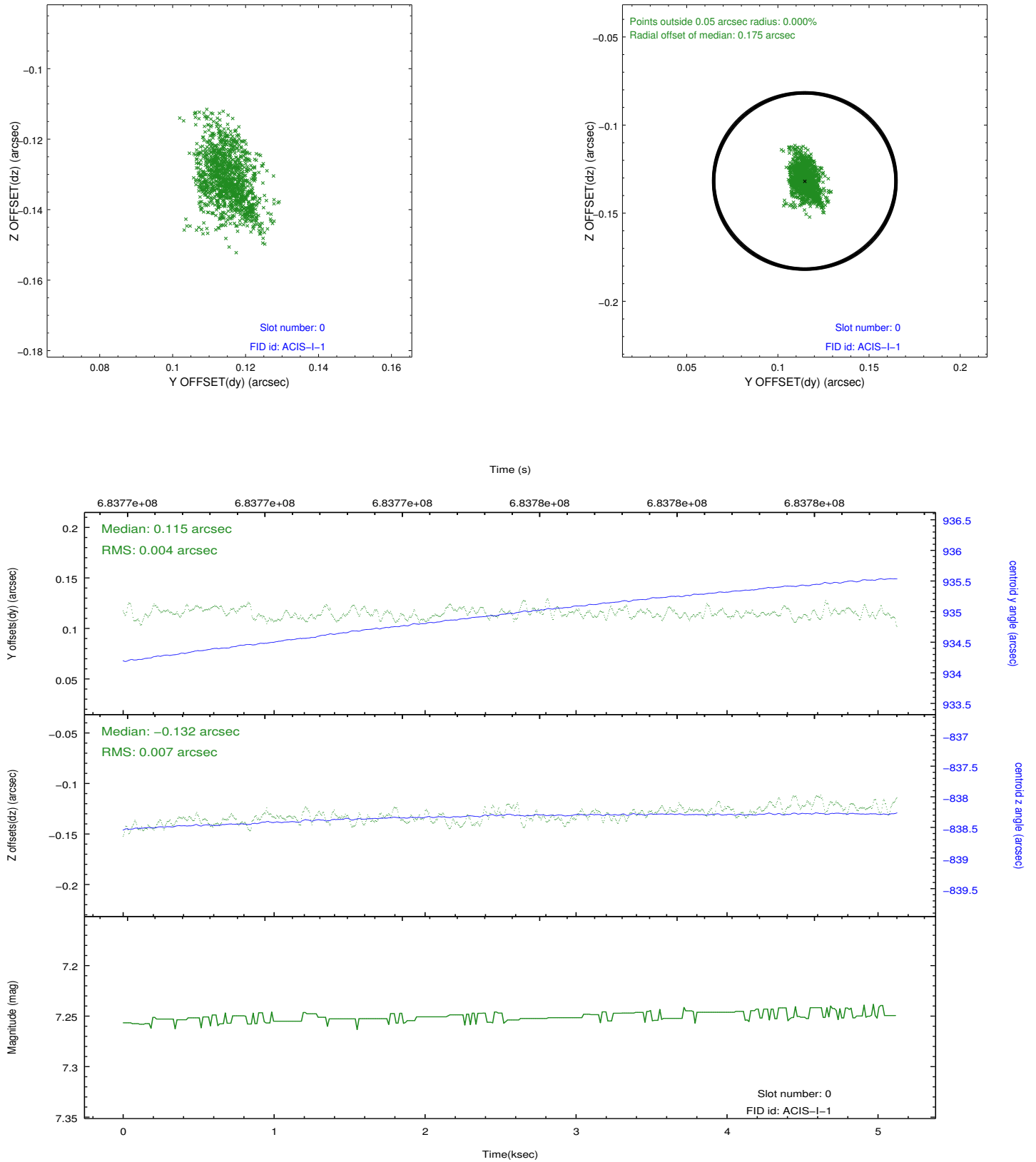


2.4.5 Slot 7

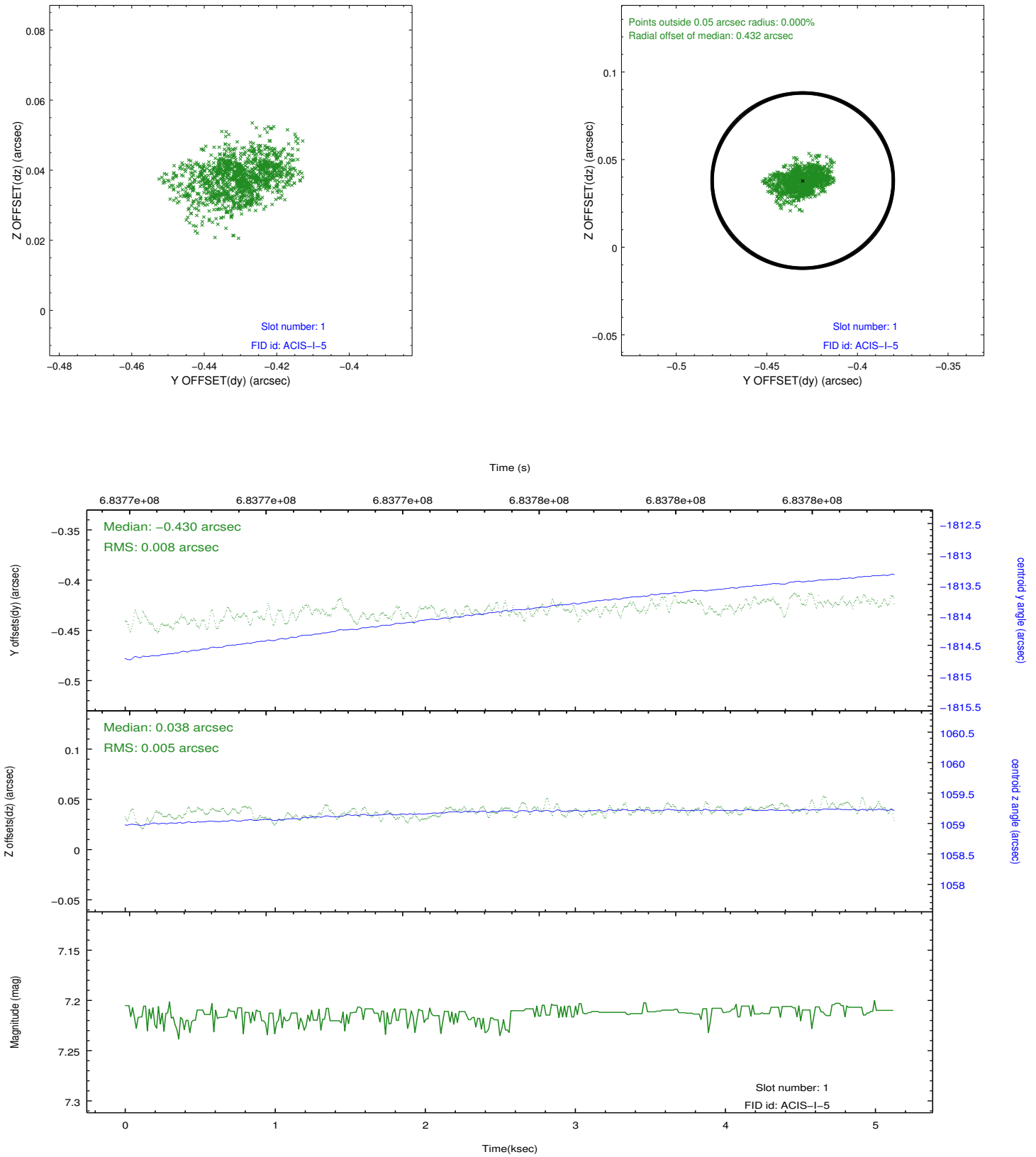


2.5 FID Slots

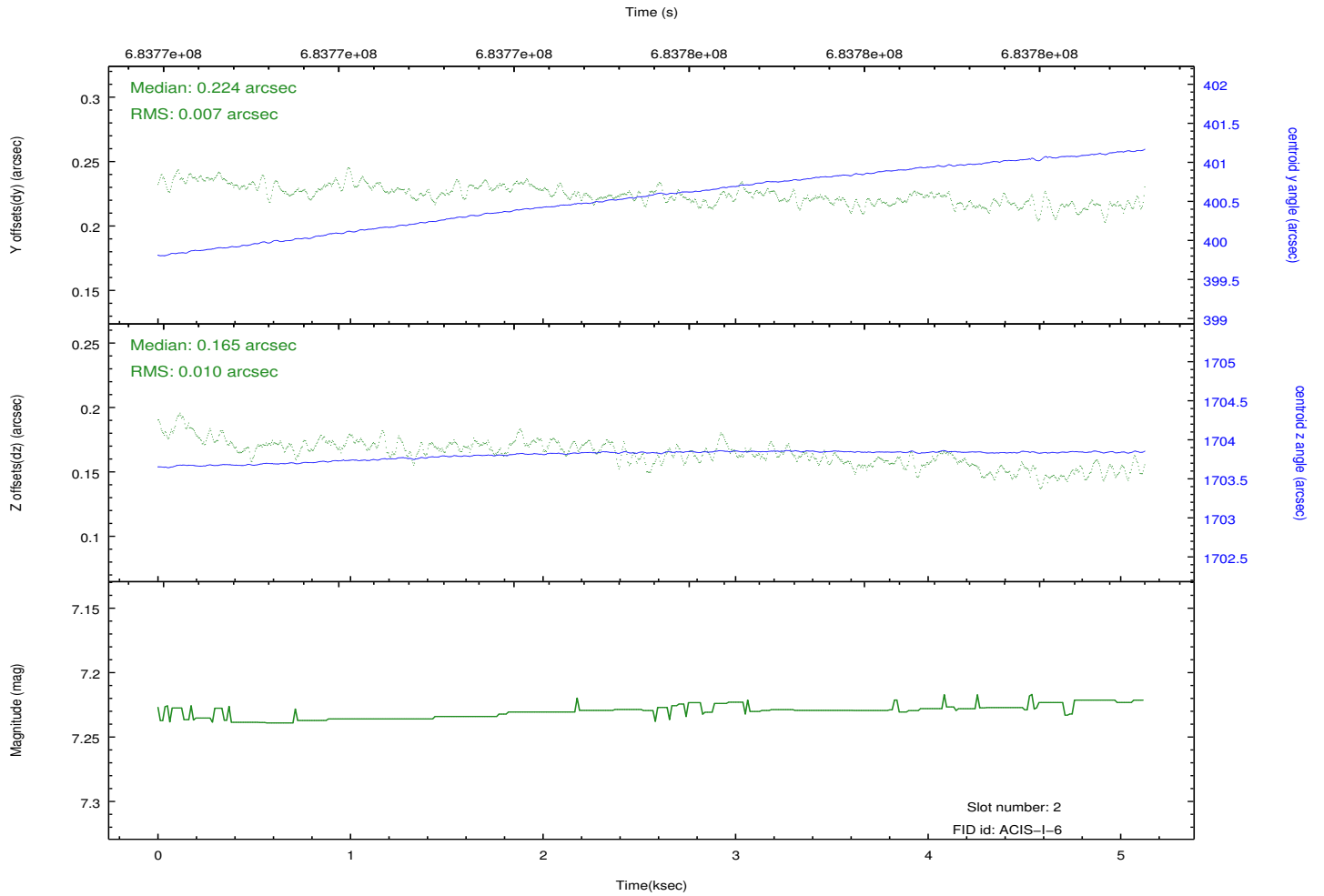
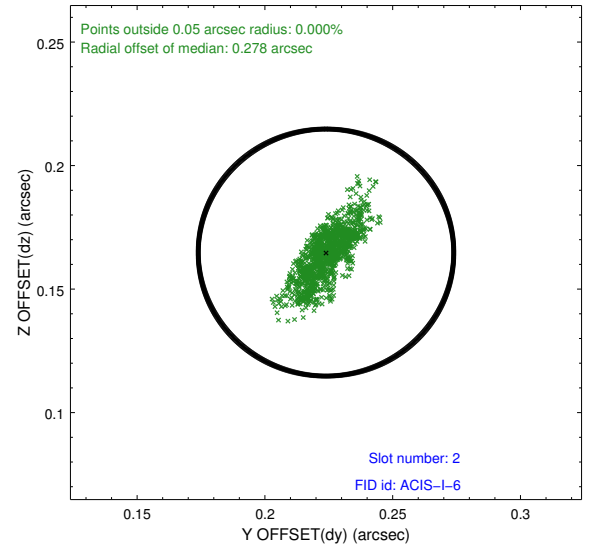
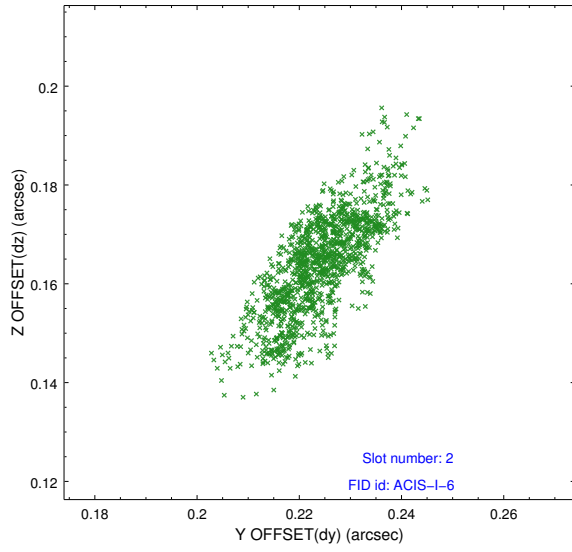
2.5.1 Slot 0



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)	2019.09.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0772145024538

A.2 Comments