

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20876 - L2 Version 1
Chandra X-Ray Center

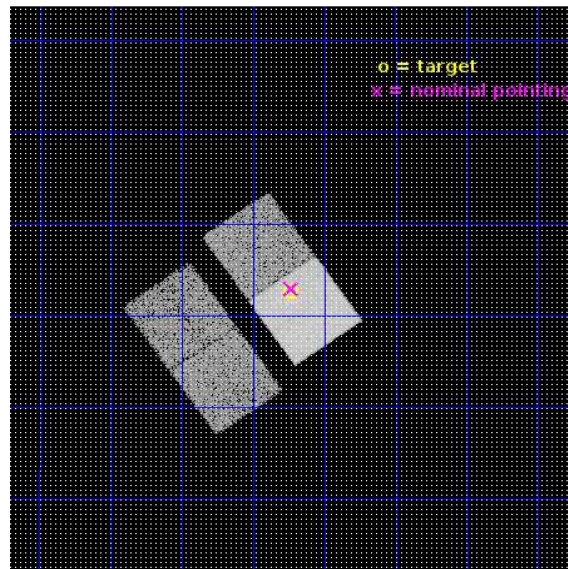
L2 Processing Date : Dec 11 2017

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

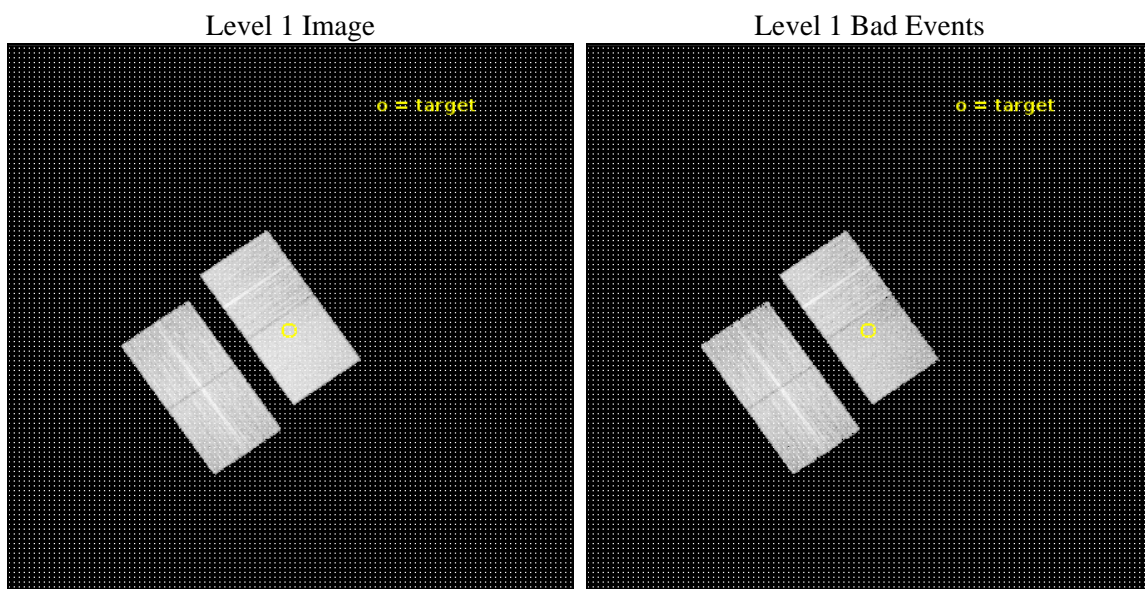
seq_num	502815	Sequence number
obs_id	20876	Observation id
title	Measuring the proper motion of the radio-quiet gamma-ray pulsar J0633+0632	Proposal title
observer	Andrey Danilenko	Principal investigator
object	PSR J0633+0632	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	98.434167	Observer's specified target RA [deg]
dec_targ	6.543028	Observer's specified target Dec [deg]
ra_nom	98.432848561979	Nominal RA [deg]
dec_nom	6.5490111337342	Nominal Dec [deg]
roll_nom	55.156797685265	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15068.117520213	Sum of GTIs [s]
livetime	14871.241471825	Livetime [s]
ontime2	15067.994400263	Sum of GTIs [s]
ontime3	15068.035440207	Sum of GTIs [s]
ontime6	15068.076480269	Sum of GTIs [s]
ontime7	15068.117520213	Sum of GTIs [s]
l2events	92592	Number of level 2 events



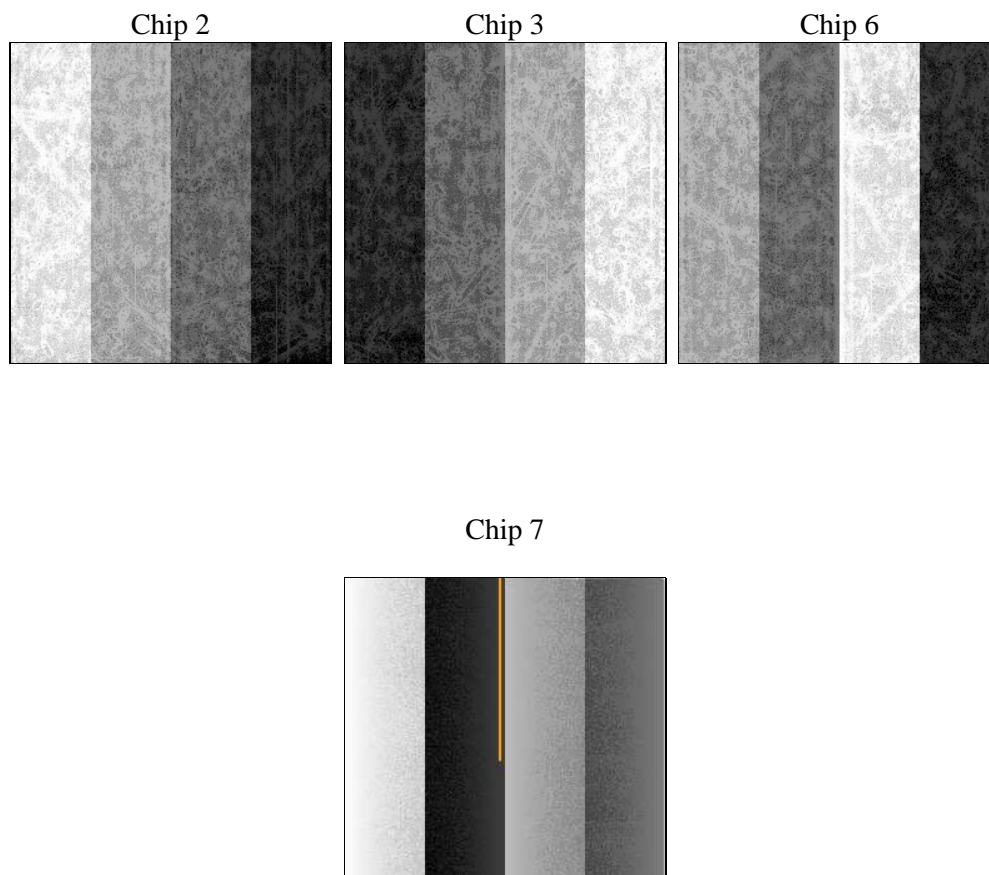
2 OBI

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	10.6	Processing system revision	ontime	15068.117520213	Sum of GTIs [s]
caldbver	4.7.6	 	ontime2	15067.994400263	Sum of GTIs [s]
date	2017-12-11T04:34:45	Date and time of file creation	ontime3	15068.035440207	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	15068.076480269	Sum of GTIs [s]
			ontime7	15068.117520213	Sum of GTIs [s]
			l1events	462726	Number of level 1 events

2.1.4 Events

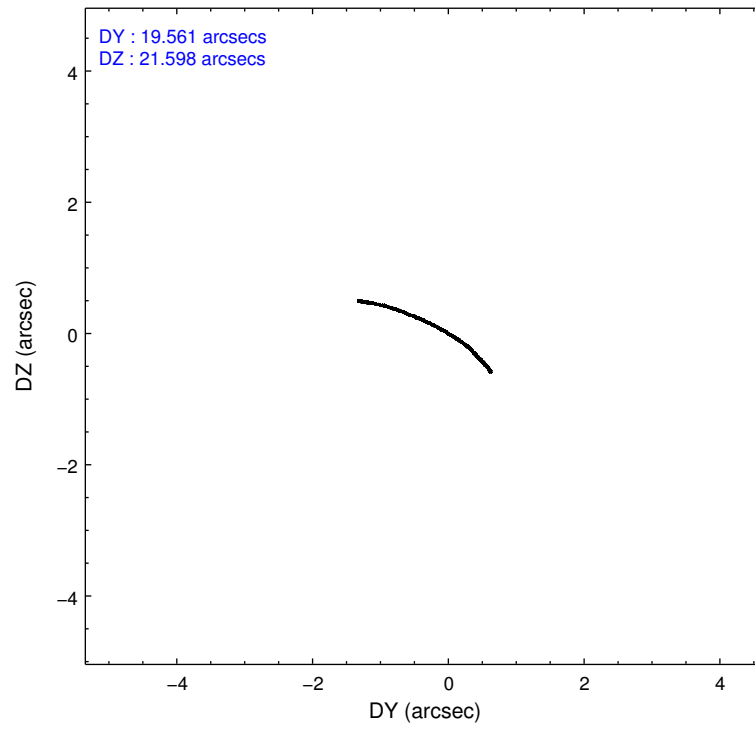
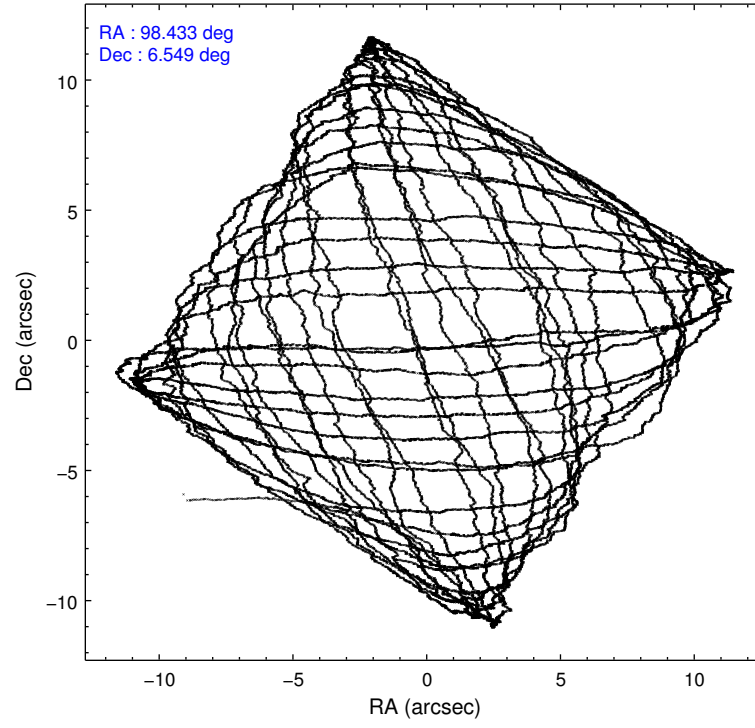
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	103786	105894	111622	141424
rejected events	91948	94557	98822	78481
rejected %	88%	89%	88%	55%

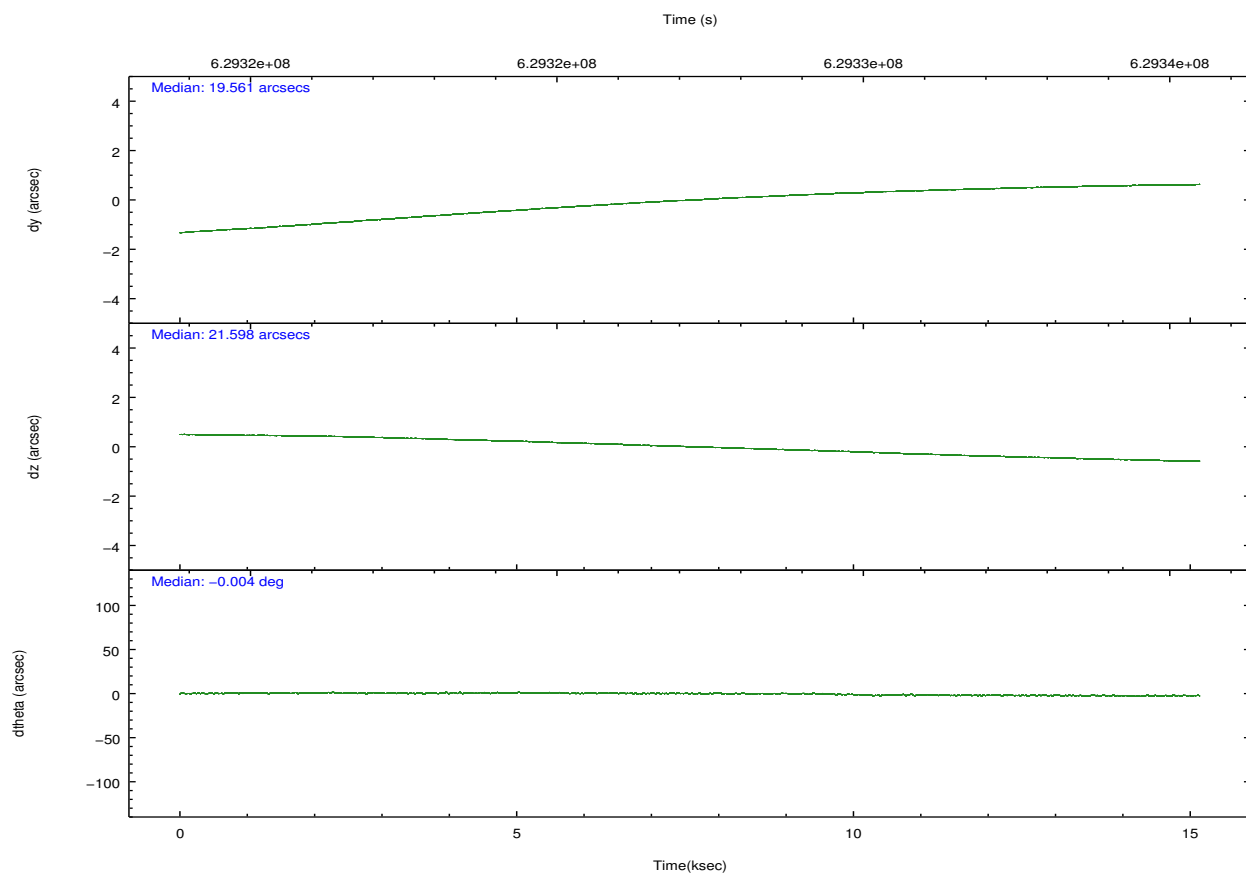
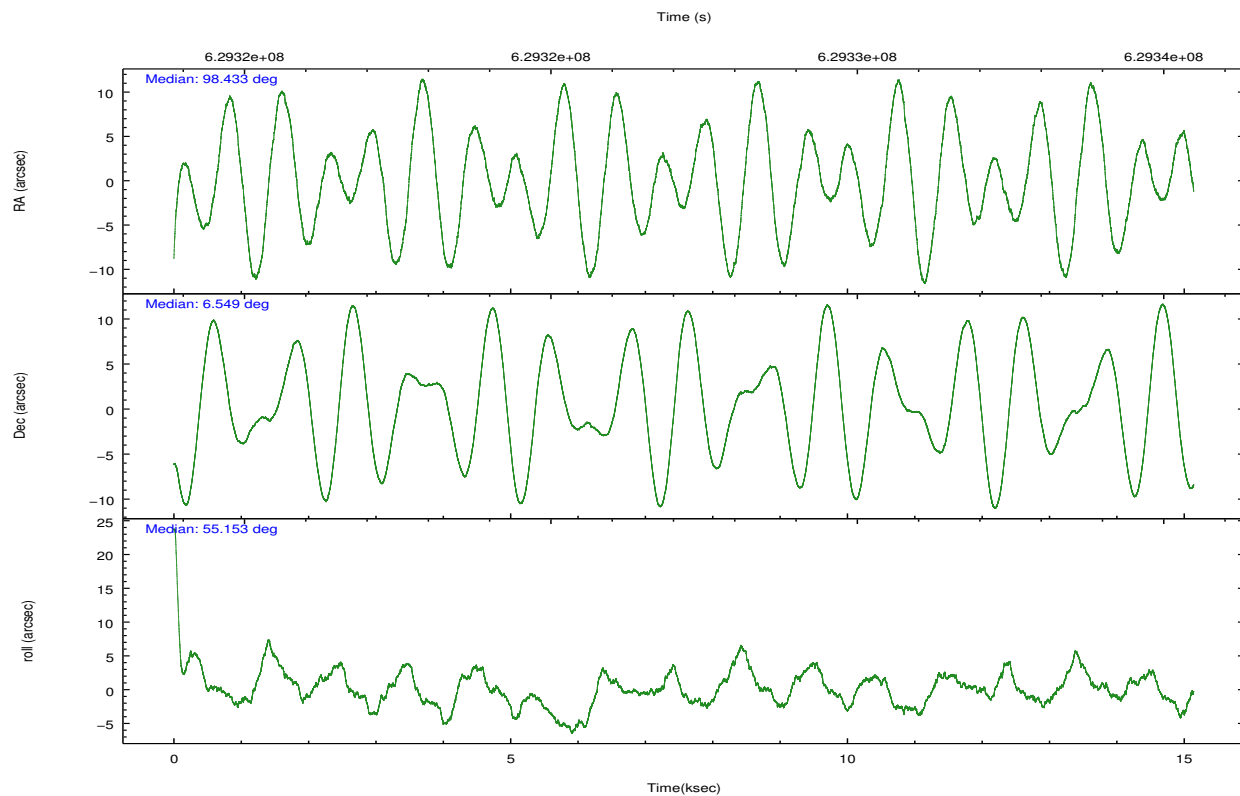
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	4222	4169	4424	5758
	4%	3%	3%	4%
grade 1 events	70	53	48	201
	0%	0%	0%	0%
grade 2 events	2921	2460	2920	13457
	2%	2%	2%	9%
grade 3 events	1167	1156	1287	5192
	1%	1%	1%	3%
grade 4 events	1167	1176	1190	5251
	1%	1%	1%	3%
grade 5 events	4407	5129	5055	14123
	4%	4%	4%	9%
grade 6 events	2367	2382	2985	33321
	2%	2%	2%	23%
grade 7 events	87465	89369	93713	64121
	84%	84%	83%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	98.430879	98.43284856197859	Subarray requested	NONE	NONE
[deg] Pointing Dec	6.521654	6.549011133734213	Alternating exposures requested	N	N
[deg] Pointing Roll	55.000377	55.15679768526464	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	629319736.184000	629318640.13178			
Observation start date	2017-12-10T19:01:07	2017-12-10T18:44:00			
[s] Observation end time (MET)	629334736.184000	629335716.12029			
Observation end date	2017-12-10T23:11:07	2017-12-10T23:28:36			
Read mode	TIMED	TIMED			

2.3 Aspect



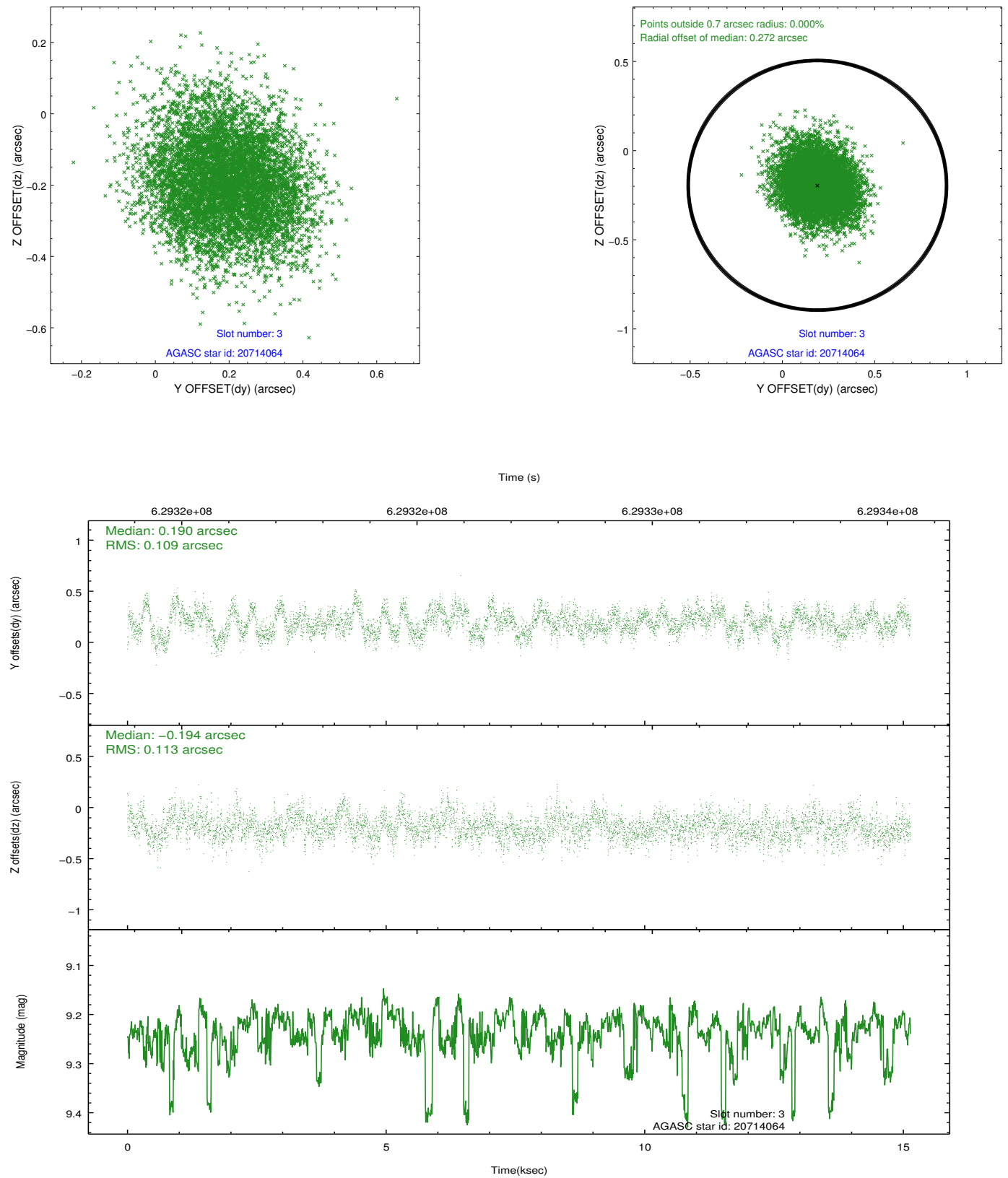


Slot Statistics

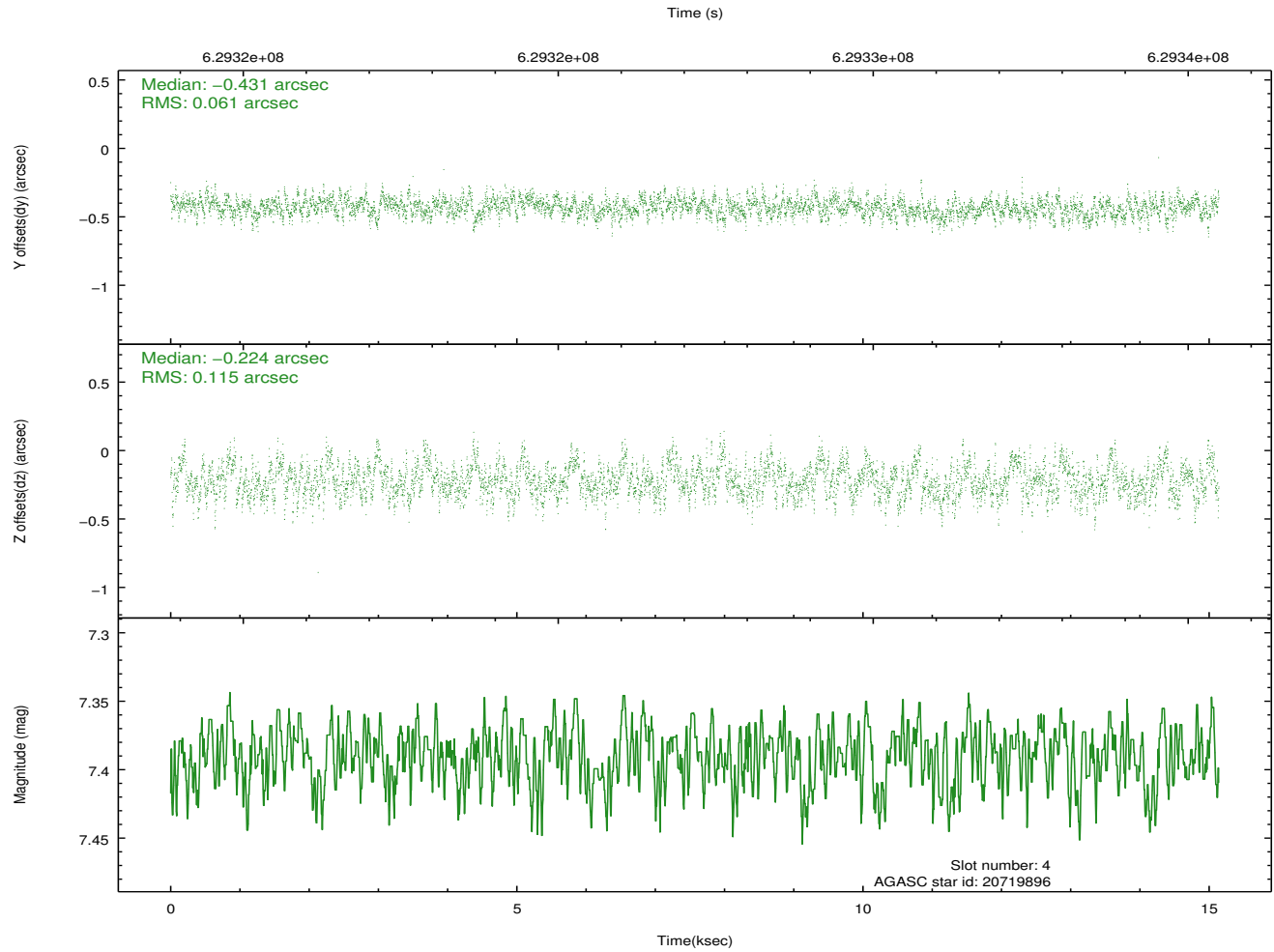
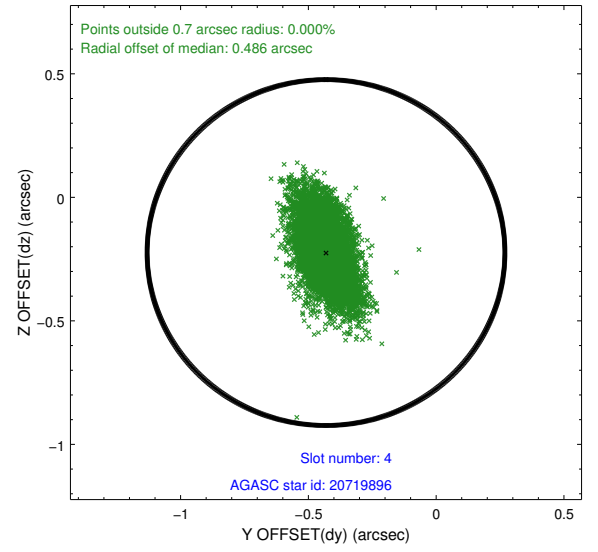
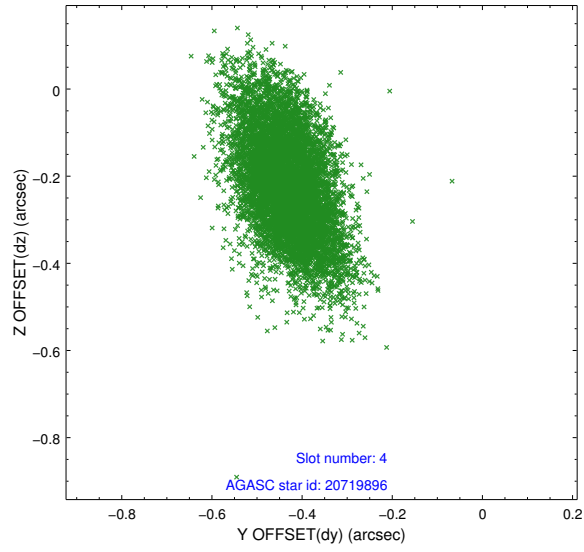
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.01	3693	-0.237	-0.145	0.026	0.034	0.000000	0.000000	-772.75	-1743.28
1	FID		ACIS-S-4	7.12	3692	0.524	0.153	0.016	0.040	0.000000	0.000000	2141.14	165.17
2	FID		ACIS-S-5	7.11	3693	-0.315	0.005	0.020	0.033	0.000000	0.000000	-1825.29	159.04
3	GUIDE	used	20714064	9.23	7381	0.190	-0.194	0.168	0.269	97.827370	6.379135	-1657.41	1474.87
4	GUIDE	used	20719896	7.39	7385	-0.431	-0.224	0.134	0.239	98.443505	7.240014	2143.77	1446.52
5	GUIDE	used	20728304	8.96	7379	0.685	0.548	0.173	0.279	98.410971	5.953943	-1713.95	-1113.29
6	GUIDE	used	20728424	7.91	7384	-0.128	-0.001	0.148	0.238	98.594325	6.695112	846.64	-120.61
7	GUIDE	used	20726616	8.35	7384	-0.309	-0.129	0.117	0.207	98.575907	7.220341	2357.54	1018.10

2.4 Star Slots

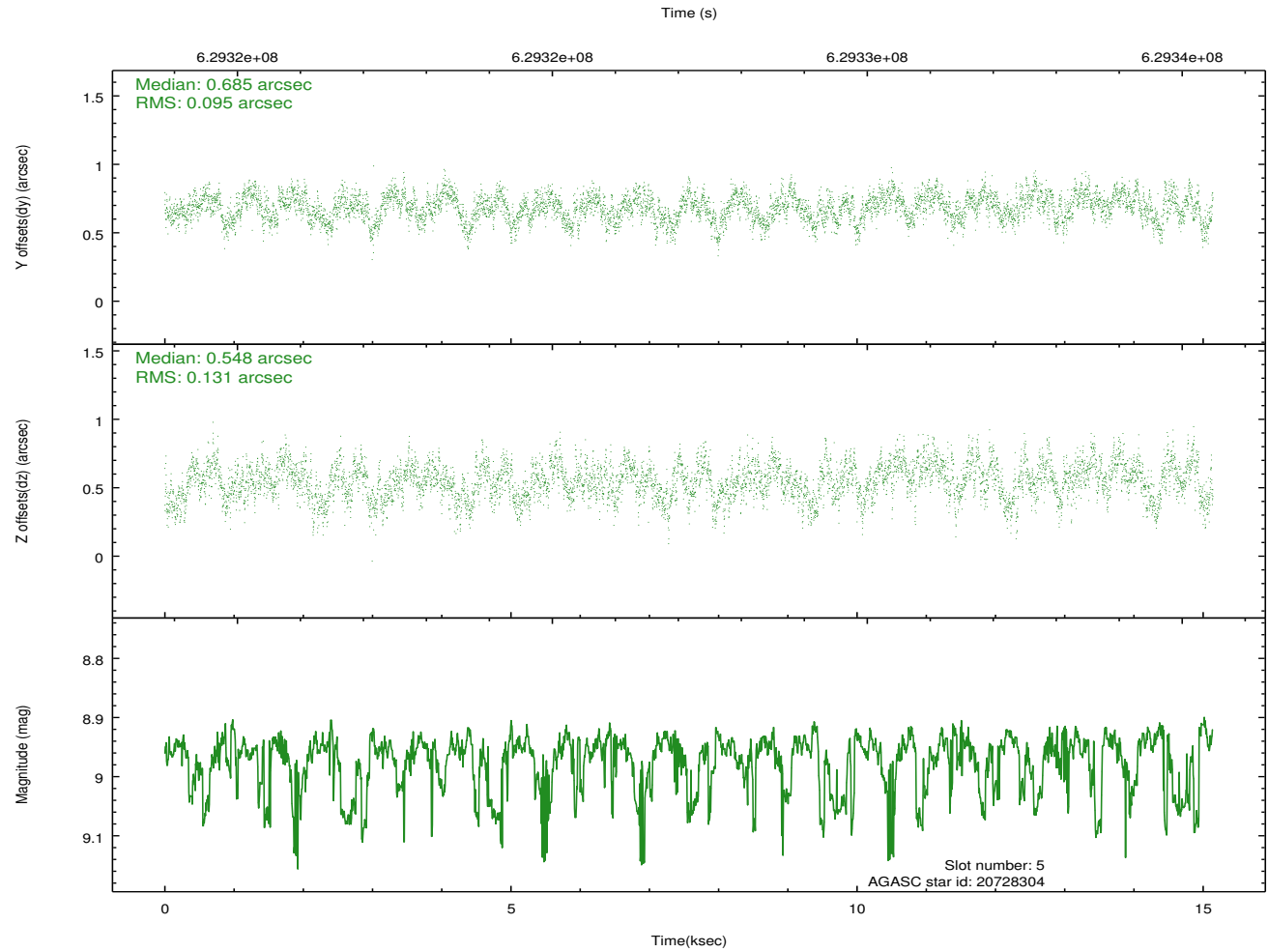
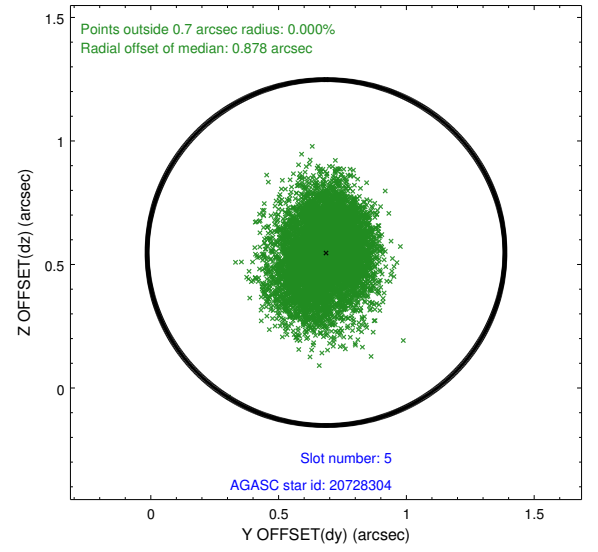
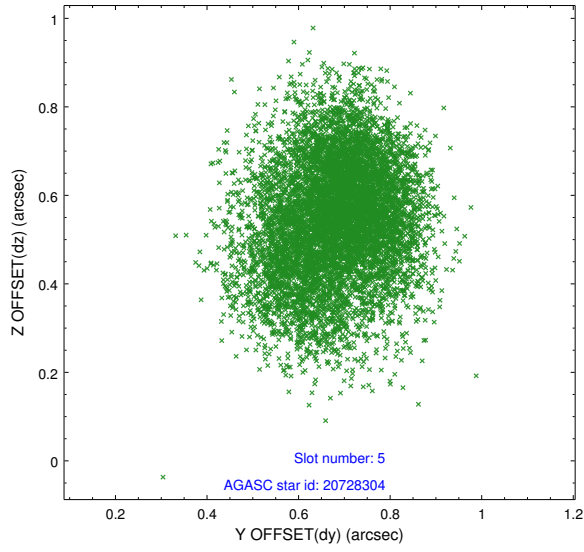
2.4.1 Slot 3



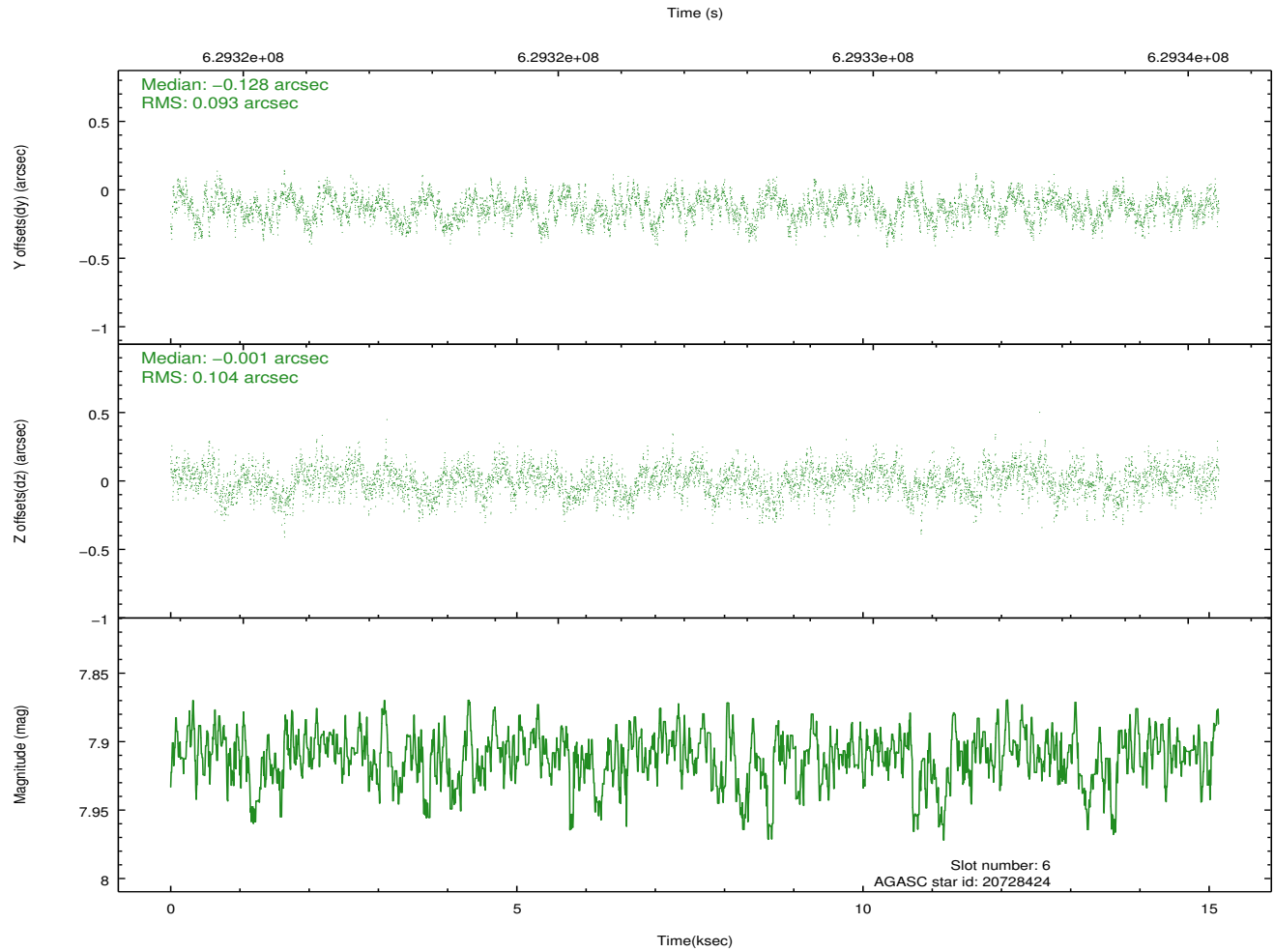
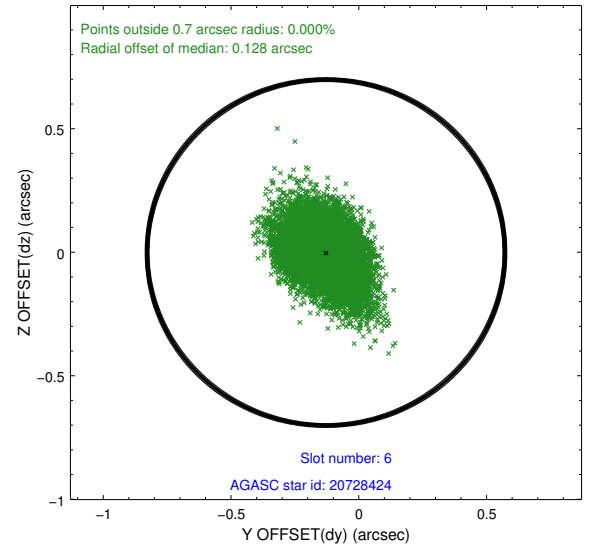
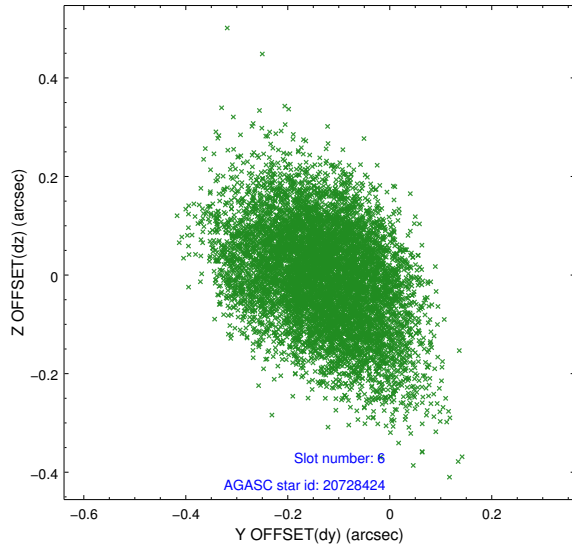
2.4.2 Slot 4



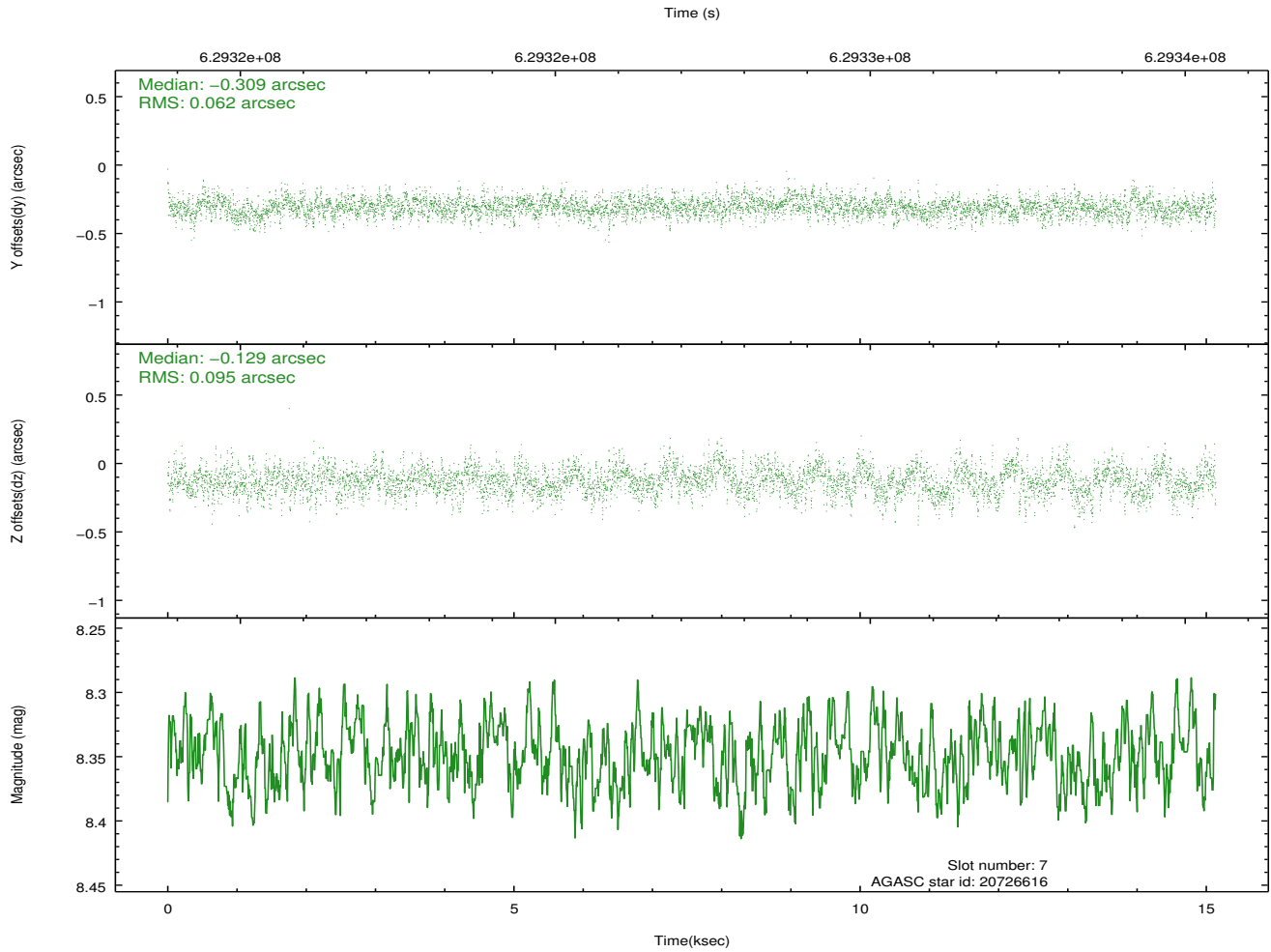
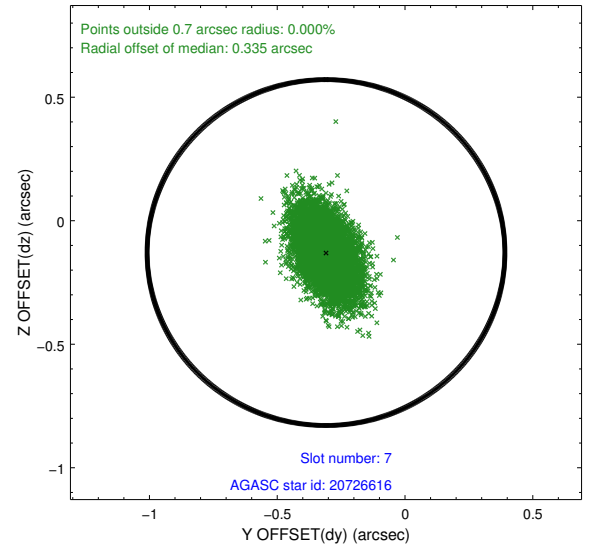
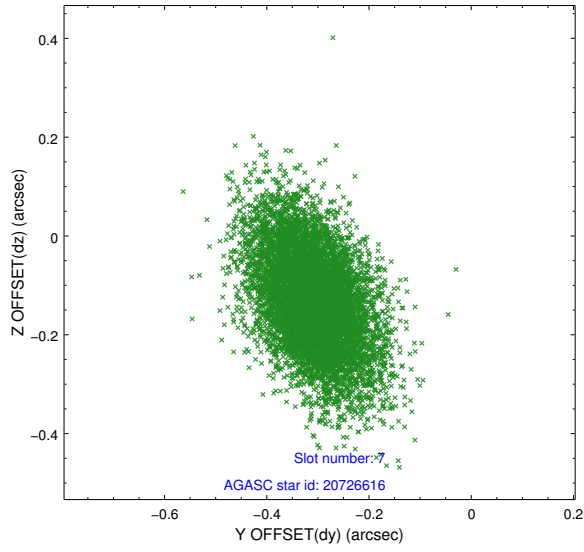
2.4.3 Slot 5



2.4.4 Slot 6

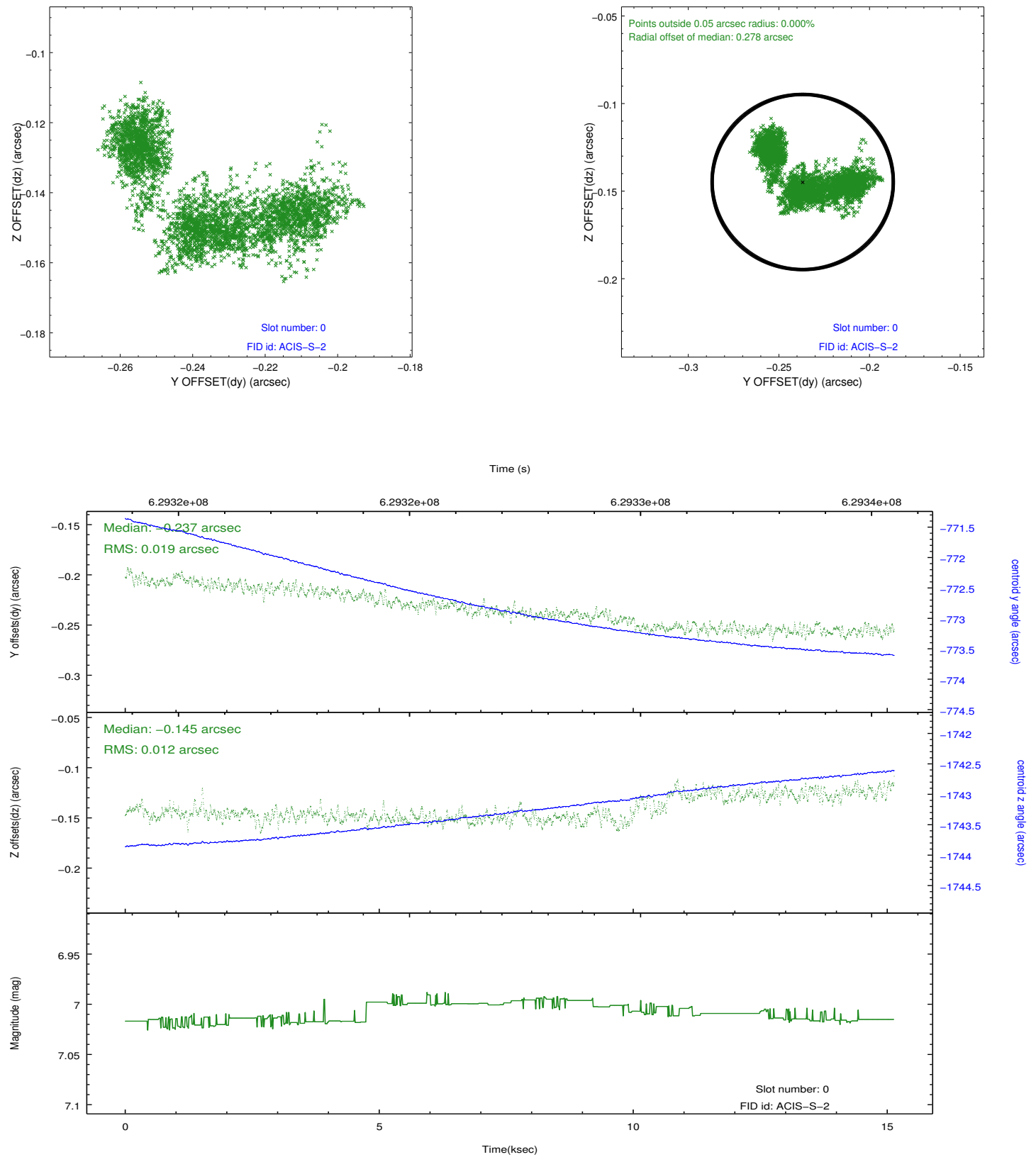


2.4.5 Slot 7

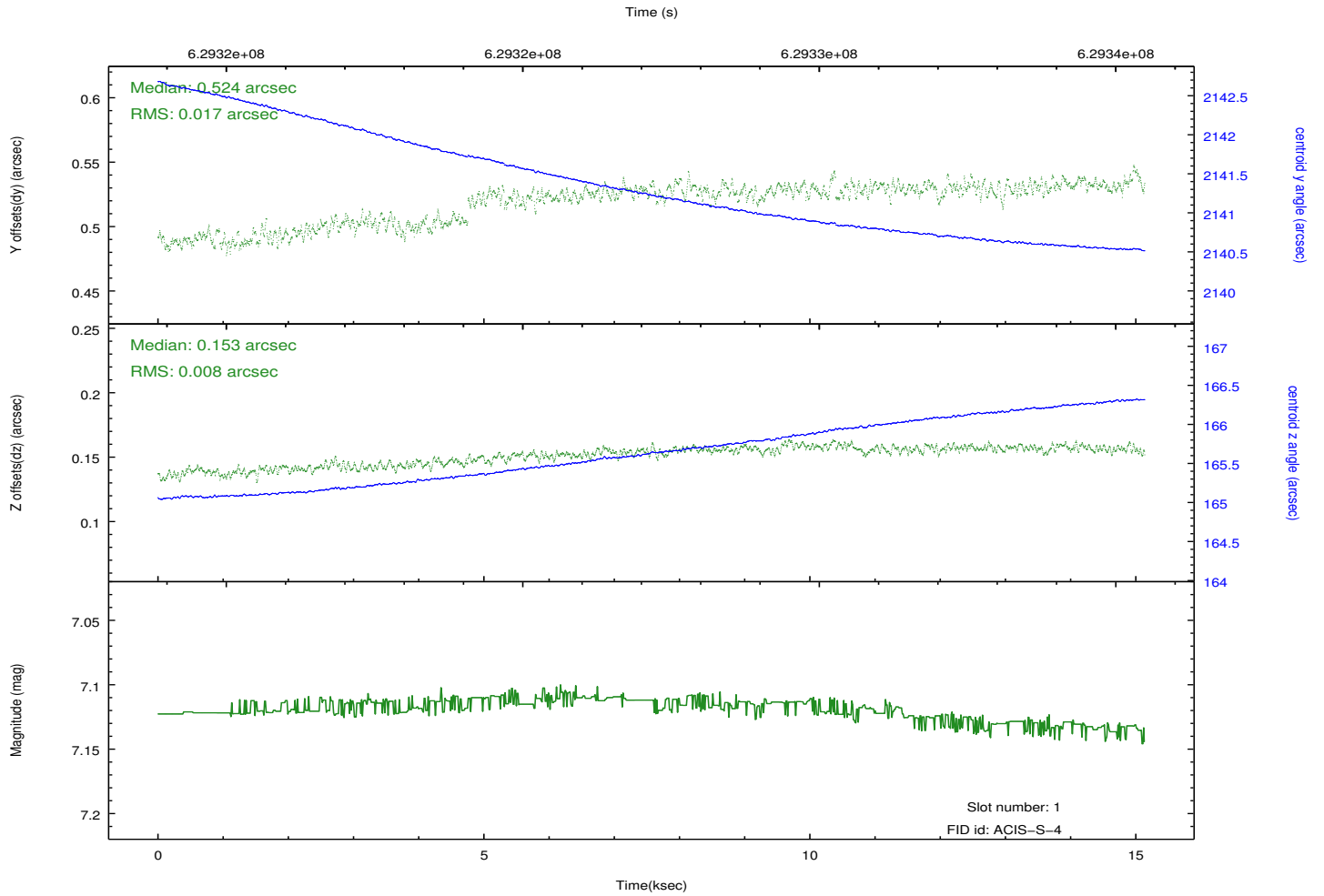
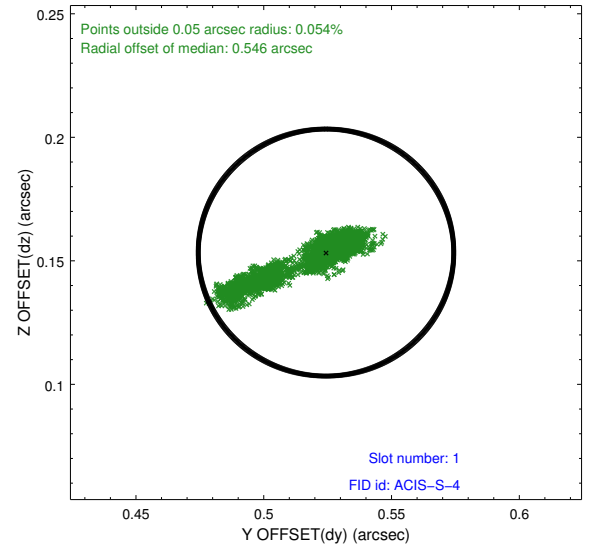
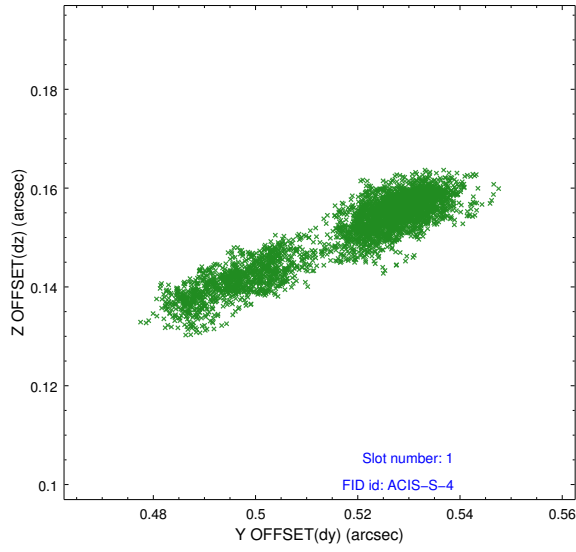


2.5 FID Slots

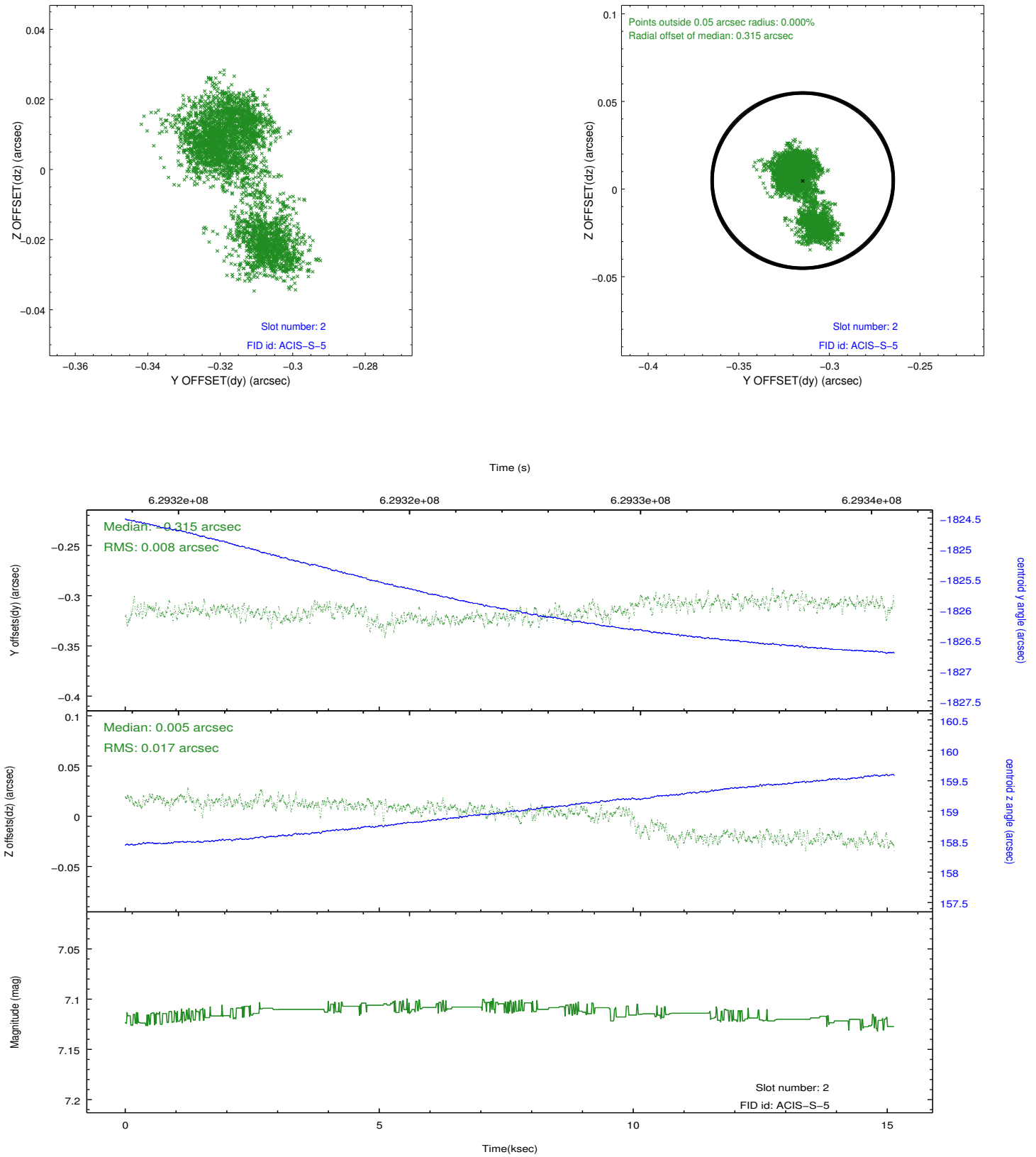
2.5.1 Slot 0



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)	2017.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.068117520213

A.2 Comments