

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 21729 - L2 Version 1
Chandra X-Ray Center

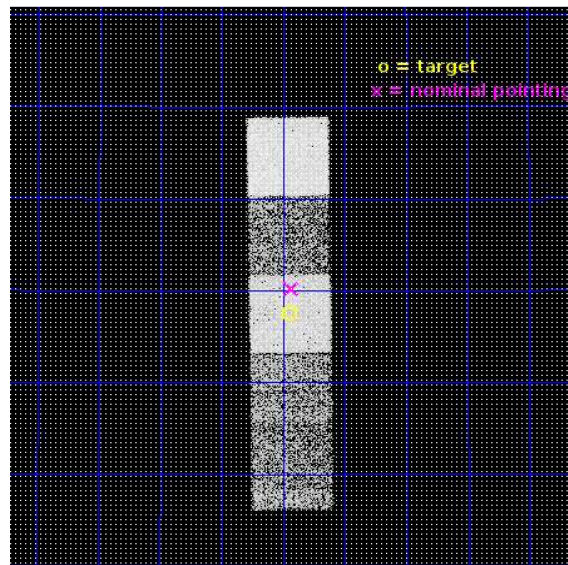
L2 Processing Date : Sep 13 2018

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1 Front

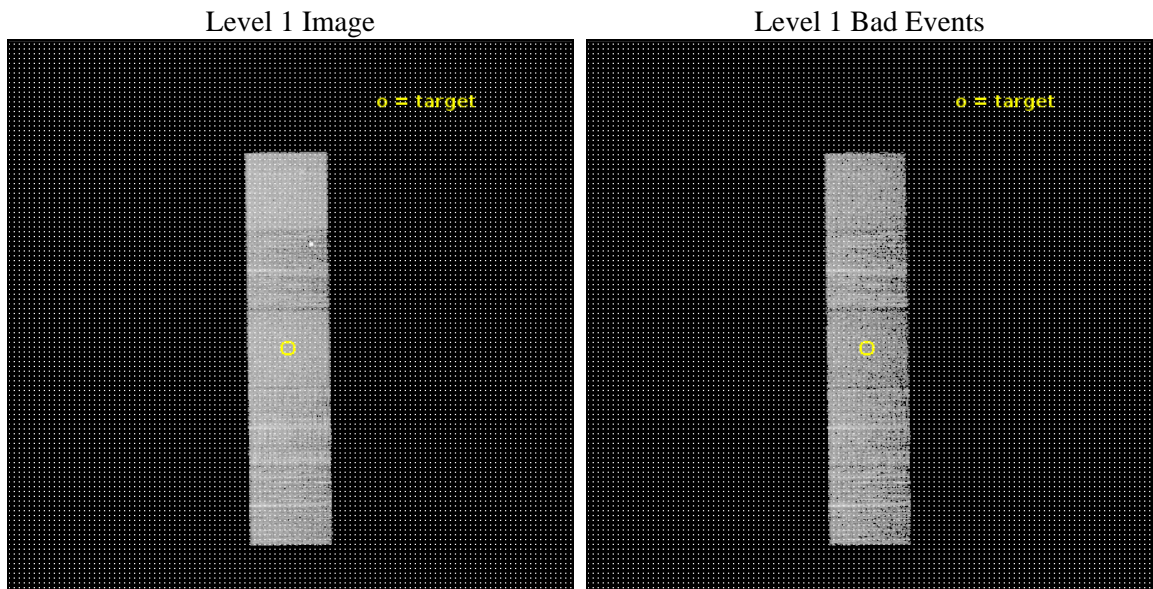
seq_num	100173	Sequence number
obs_id	21729	Observation id
title	Chandra Observations of the High-Heliospheric Latitude Comet 21P/Giacobini-Zinner	Proposal title
observer	Bradford Snios	Principal investigator
object	21P/Giacobini-Zinner	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	88.737982	Observer's specified target RA [deg]
dec_targ	30.95778	Observer's specified target Dec [deg]
ra_nom	88.733430330491	Nominal RA [deg]
dec_nom	31.003467412714	Nominal Dec [deg]
roll_nom	89.243736972256	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5183.2000399828	Sum of GTIs [s]
livetime	5115.4777156441	Livetime [s]
ontime5	5183.2000399828	Sum of GTIs [s]
ontime6	5183.2000399828	Sum of GTIs [s]
ontime7	5183.2000399828	Sum of GTIs [s]
ontime8	5183.2000399828	Sum of GTIs [s]
ontime9	5183.2000399828	Sum of GTIs [s]
l2events	62285	Number of level 2 events



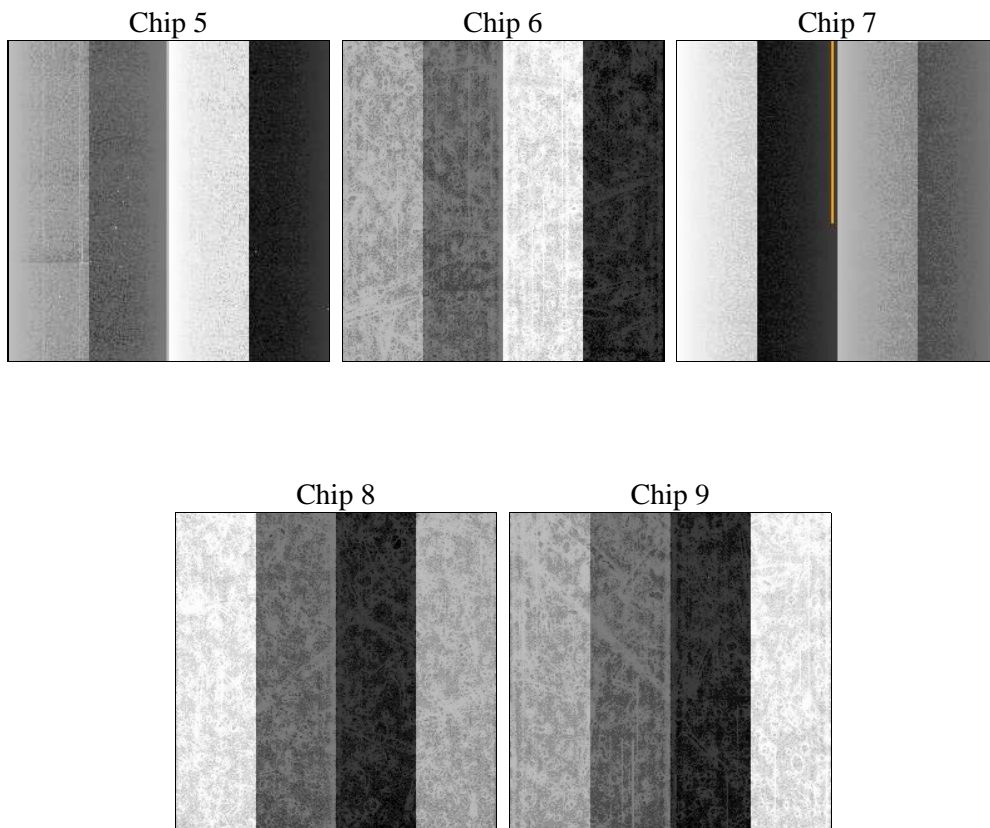
2 OBI

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	10.6.4.1	Processing system revision	ontime	5183.2000399828	Sum of GTIs [s]
caldsver	4.8.0	 	ontime5	5183.2000399828	Sum of GTIs [s]
date	2018-09-13T07:23:04	Date and time of file creation	ontime6	5183.2000399828	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	5183.2000399828	Sum of GTIs [s]
			ontime8	5183.2000399828	Sum of GTIs [s]
			ontime9	5183.2000399828	Sum of GTIs [s]
			l1events	256545	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	63776	43929	52705	54573	41562
rejected events	35029	38152	30925	40299	36837
rejected %	54%	86%	58%	73%	88%

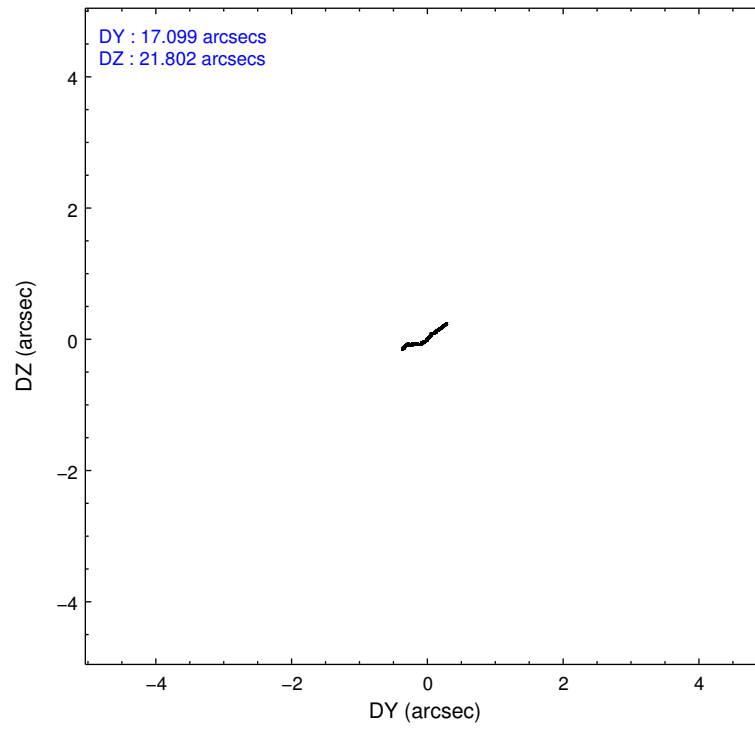
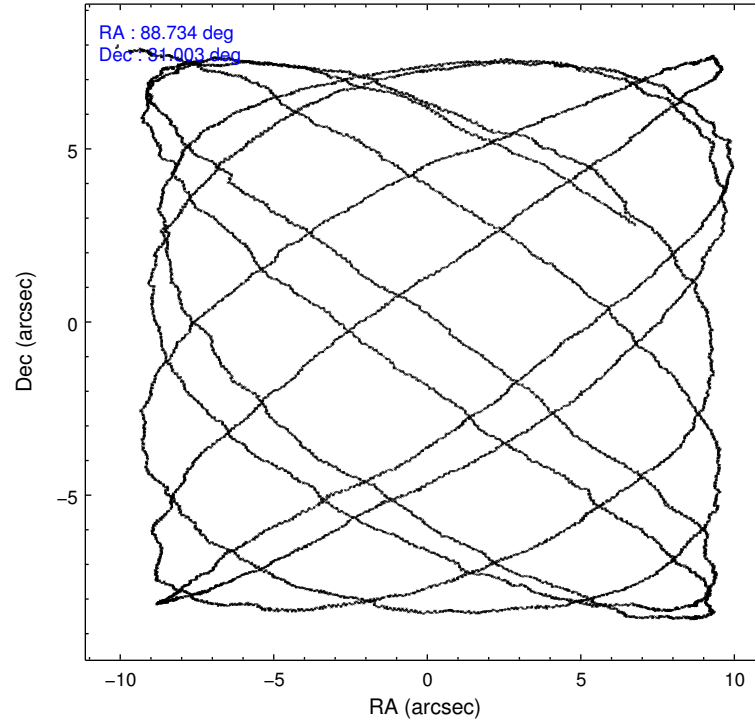
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	1758	2997	2114	4434	1785
	2%	6%	4%	8%	4%
grade 1 events	126	35	81	50	18
	0%	0%	0%	0%	0%
grade 2 events	9702	1180	4894	3753	1124
	15%	2%	9%	6%	2%
grade 3 events	1067	466	1914	1493	544
	1%	1%	3%	2%	1%
grade 4 events	988	456	1864	1411	510
	1%	1%	3%	2%	1%
grade 5 events	4626	2061	5354	2968	2199
	7%	4%	10%	5%	5%
grade 6 events	16999	1061	12341	4187	1056
	26%	2%	23%	7%	2%
grade 7 events	28510	35673	24143	36277	34326
	44%	81%	45%	66%	82%

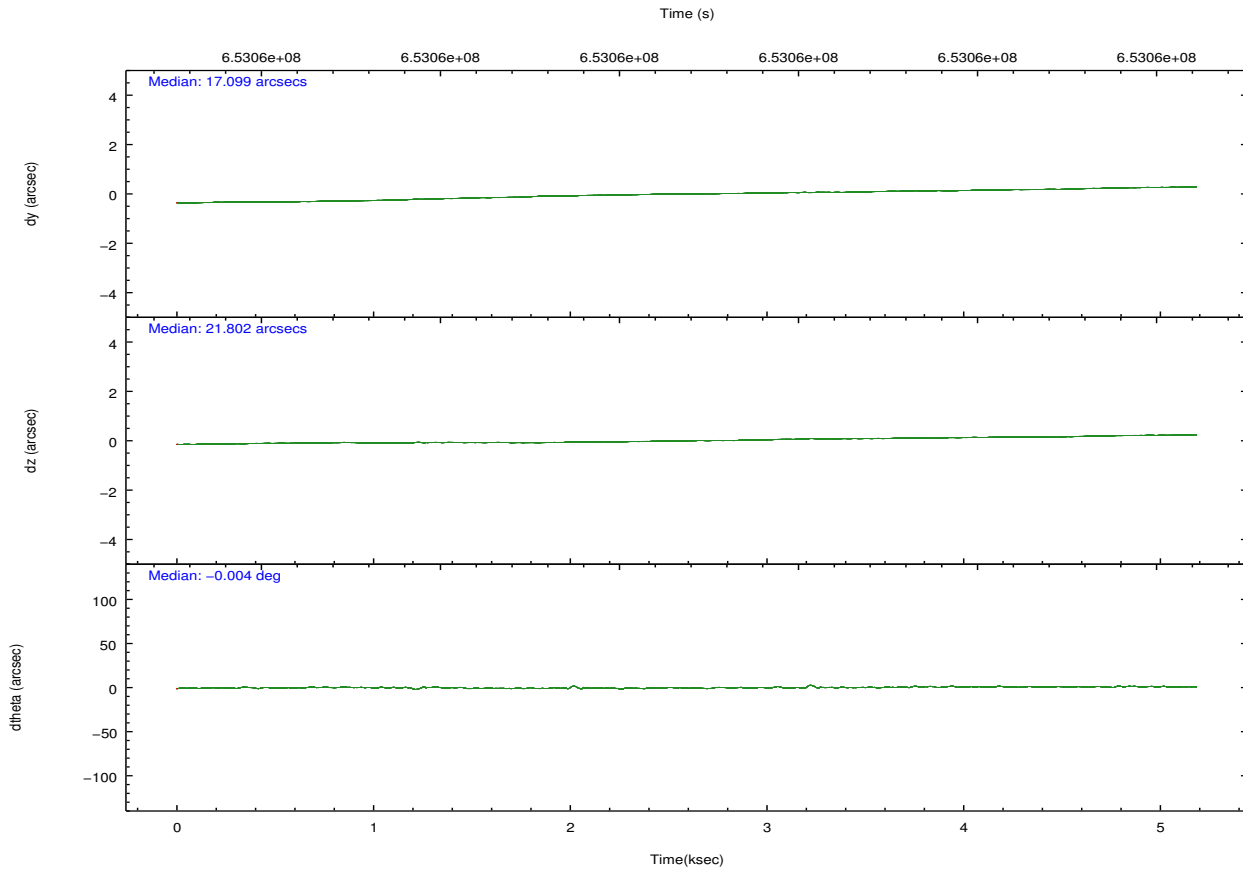
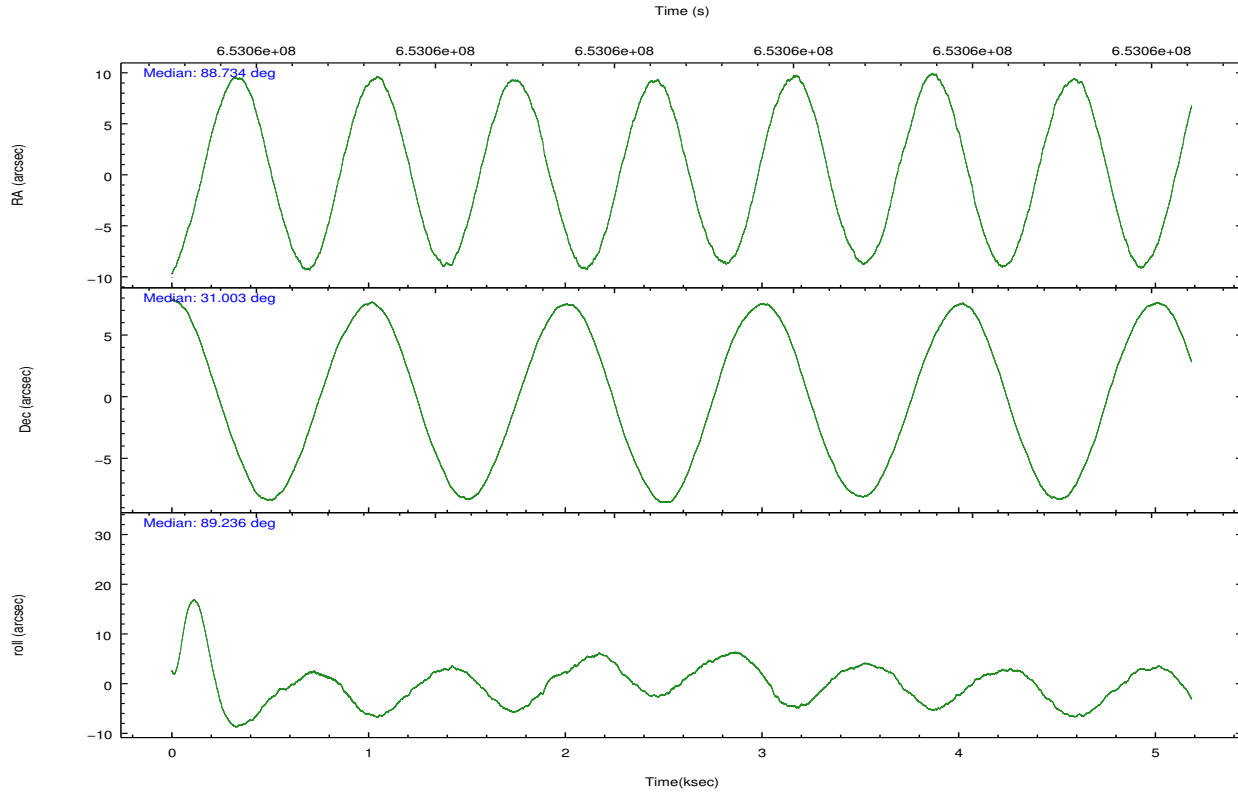
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-56789	ACIS-56789
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	88.749471	88.73343033049096
[deg] Pointing Dec	30.979633	31.00346741271408
[deg] Pointing Roll	89.078863	89.24373697225552
[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)	653054973.184000	653054597.28383
Observation start date	2018-09-11T12:08:24	2018-09-11T12:03:17
[s] Observation end time (MET)	653059973.184000	653060107.1716599
Observation end date	2018-09-11T13:31:44	2018-09-11T13:35:07
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	N	N
CCD S0 on	N	N
CCD S1 on	O1	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	O2	Y
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



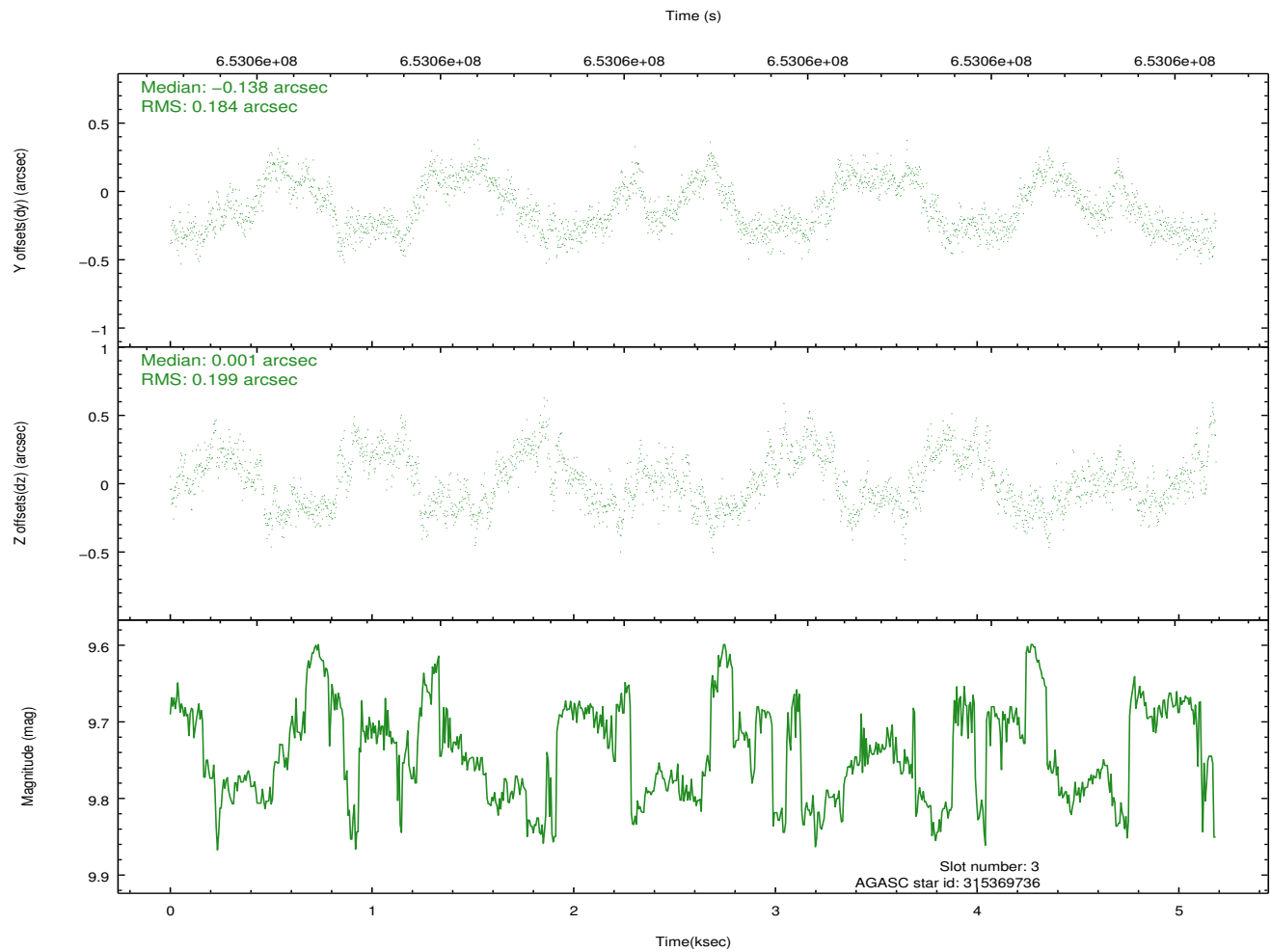
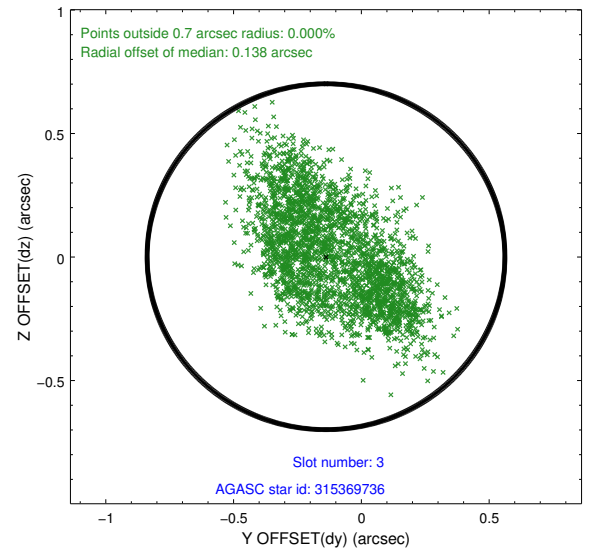
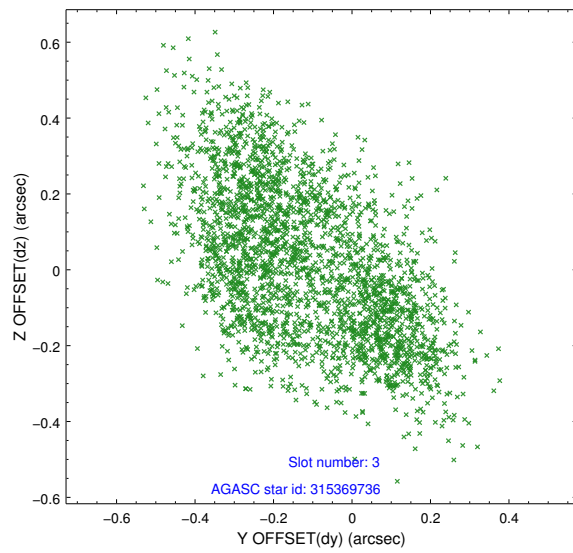


Slot Statistics

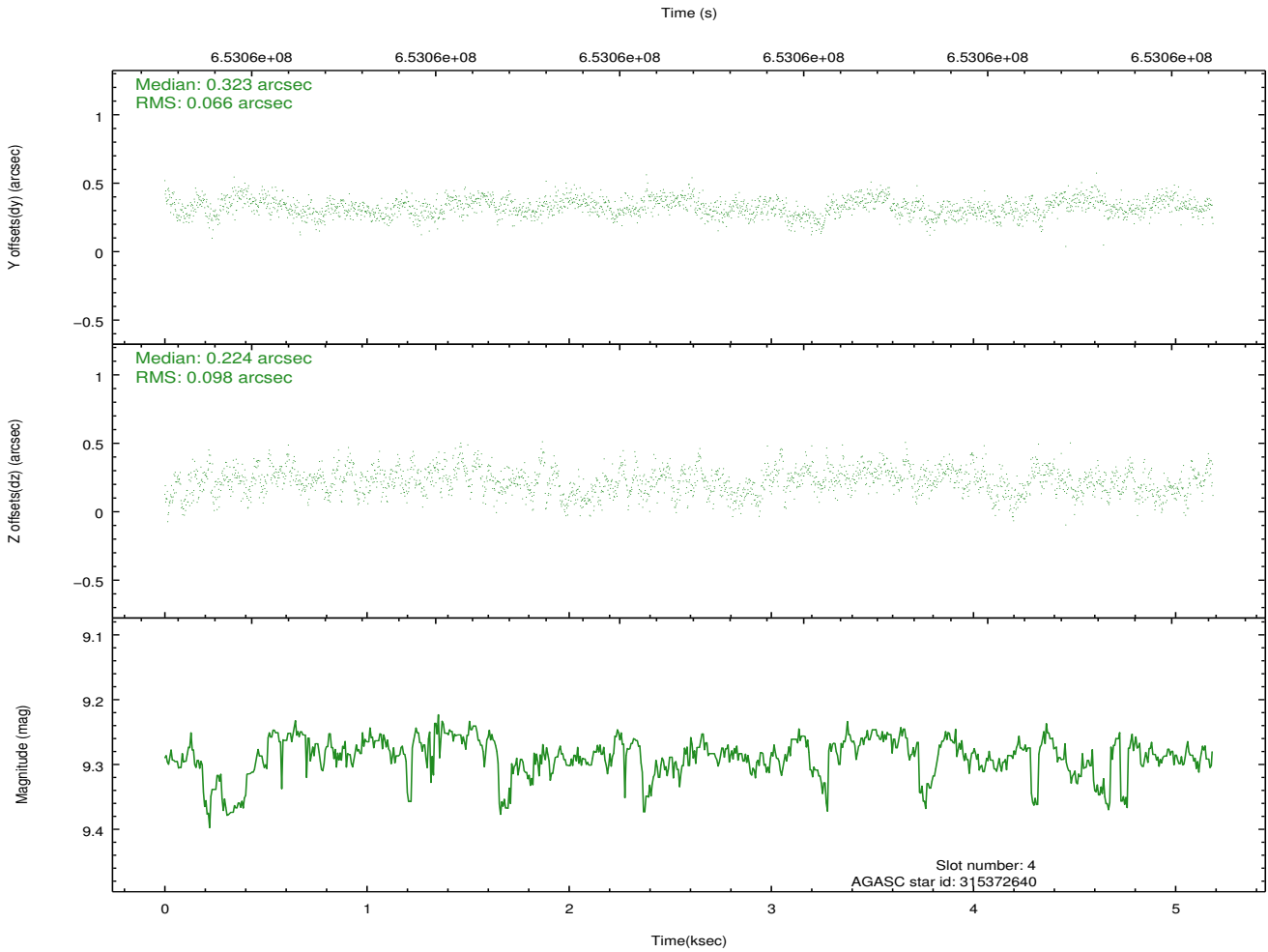
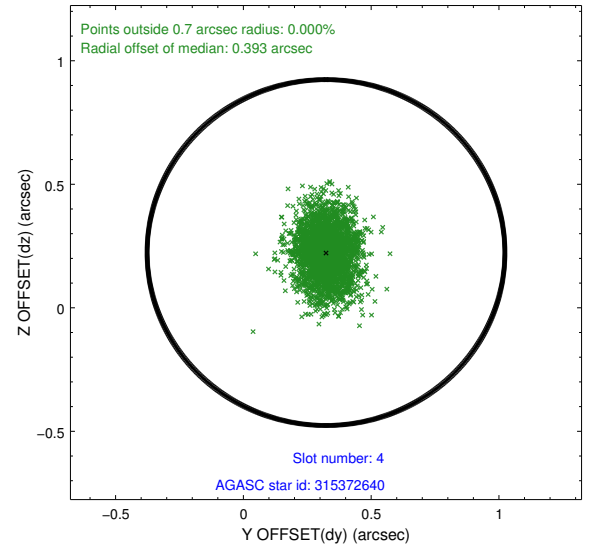
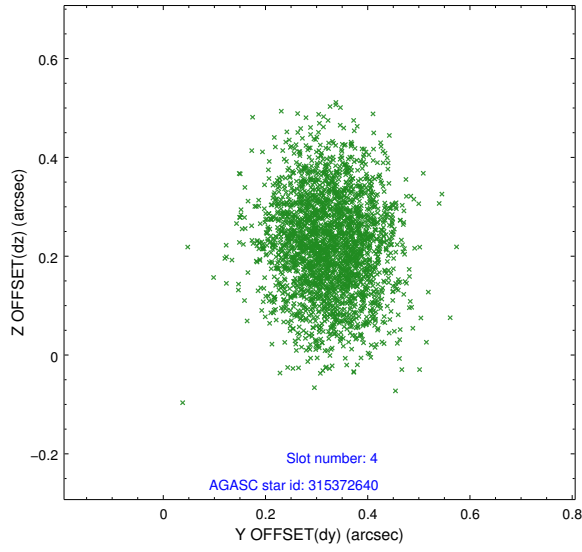
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.01	1265	1.000	-0.190	-0.102	0.011	0.018	0.000000	0.000000	-770.28	-1743
1	FID		ACIS-S-4	7.12	1265	1.000	0.440	0.119	0.006	0.010	0.000000	0.000000	2143.09	164
2	FID		ACIS-S-5	7.11	1265	1.000	-0.281	-0.007	0.010	0.016	0.000000	0.000000	-1821.72	158
3	GUIDE	used	315369736	9.75	2526	1.000	-0.138	0.001	0.289	0.449	89.240151	31.020865	176.14	-1510
4	GUIDE	used	315372640	9.29	2528	1.000	0.323	0.224	0.126	0.206	89.461928	30.625209	-1232.60	-2227
5	GUIDE	used	315375496	8.66	2527	1.000	-0.285	-0.069	0.145	0.224	89.379333	31.109784	504.74	-1934
6	GUIDE	used	315376264	8.71	2528	1.000	0.017	-0.037	0.134	0.214	88.902699	30.711380	-957.17	-490
7	GUIDE	used	315378784	8.29	2529	1.000	0.073	-0.124	0.122	0.204	88.722786	30.337477	-2313.35	45

2.4 Star Slots

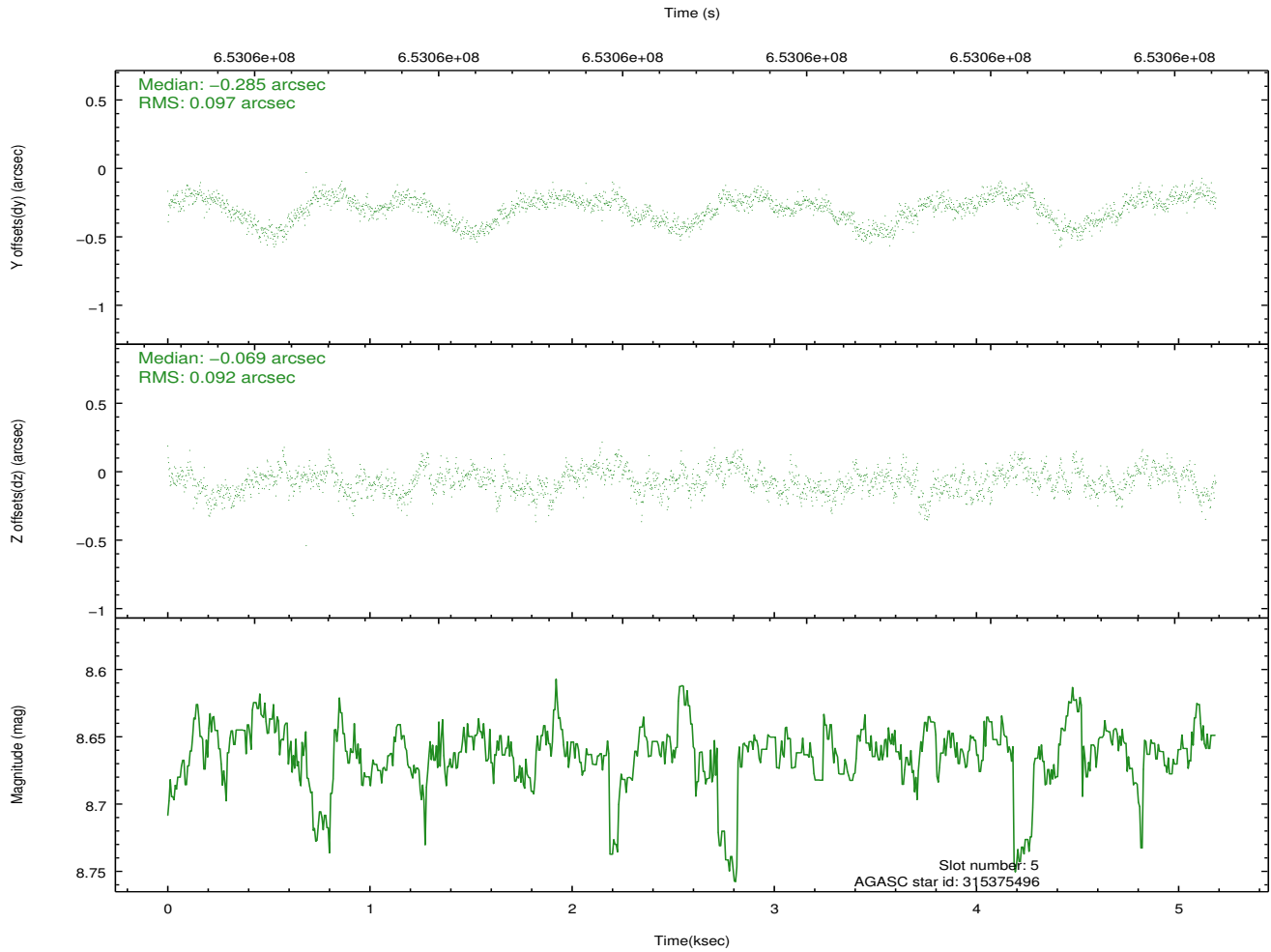
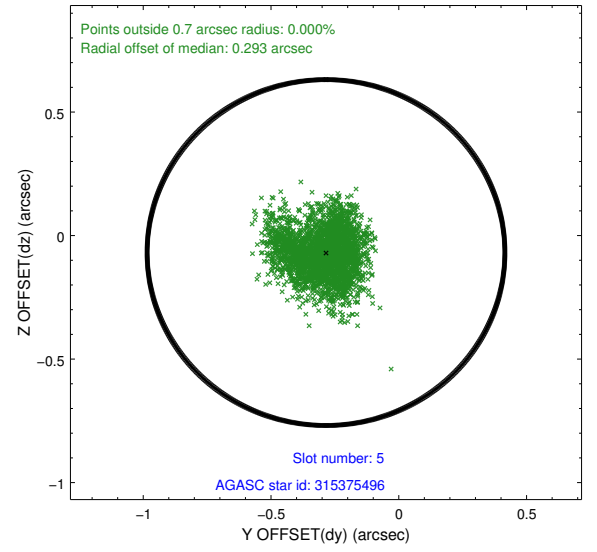
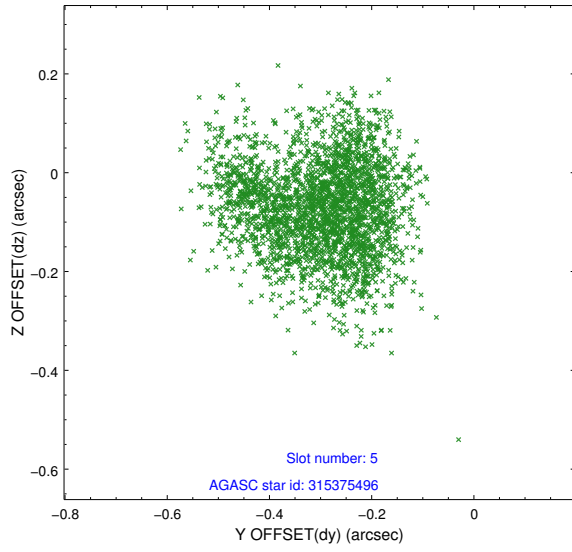
2.4.1 Slot 3



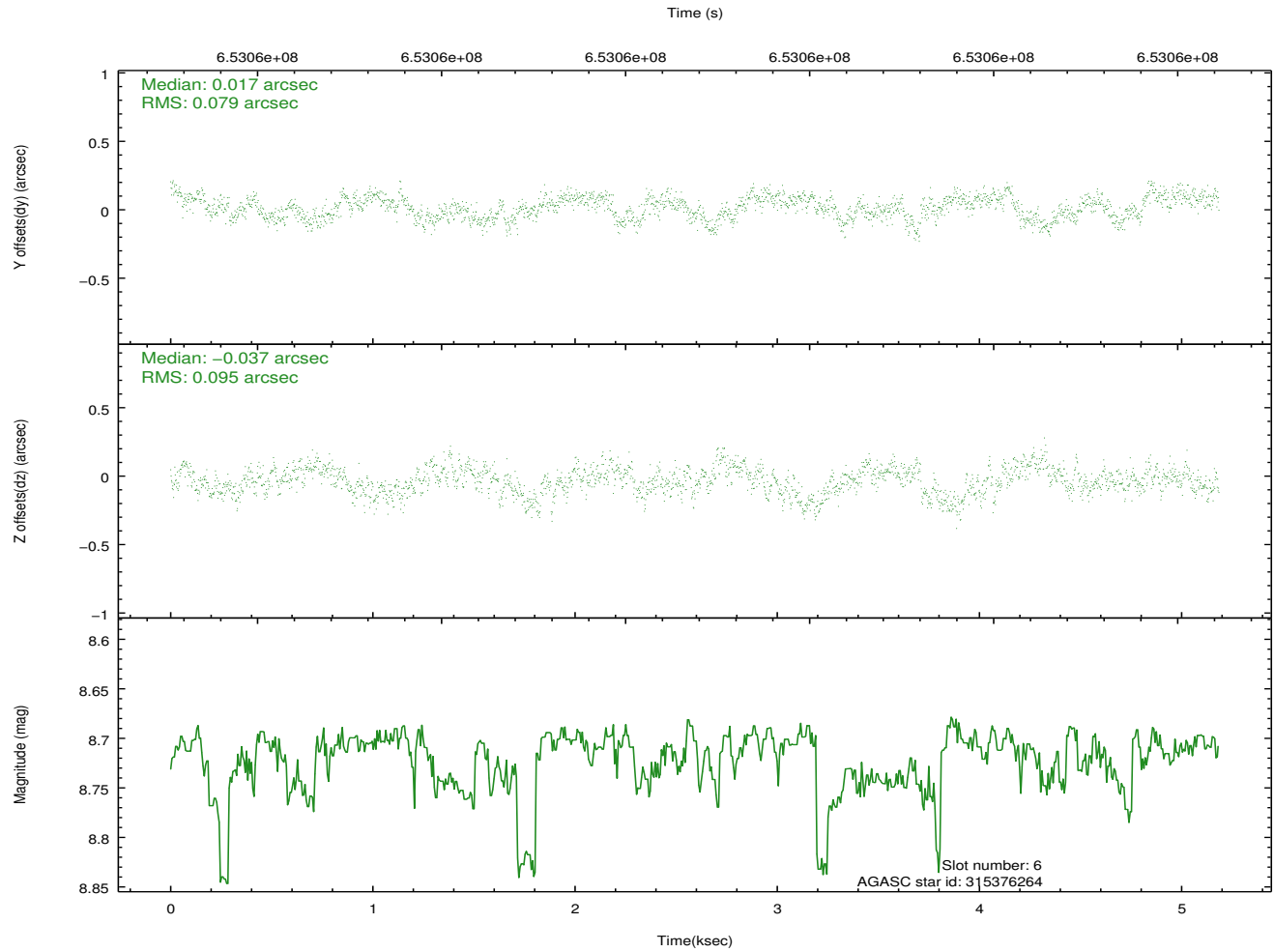
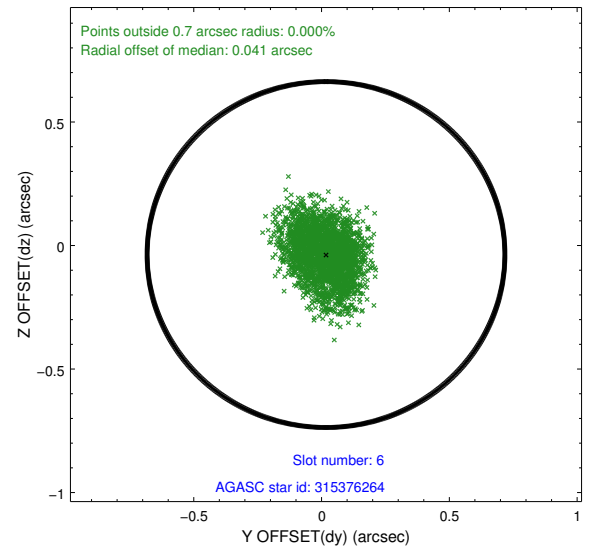
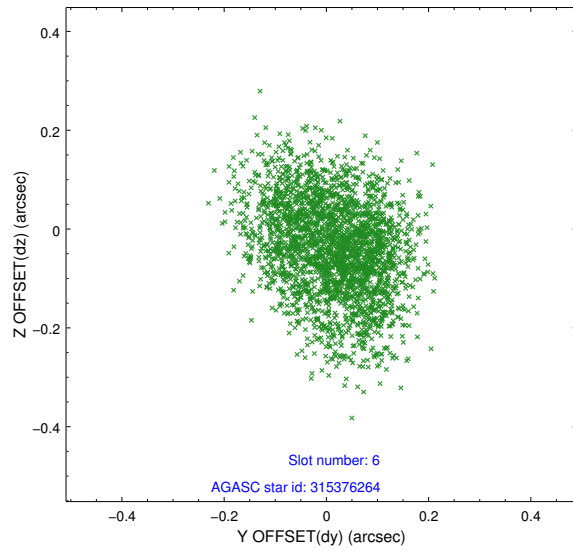
2.4.2 Slot 4



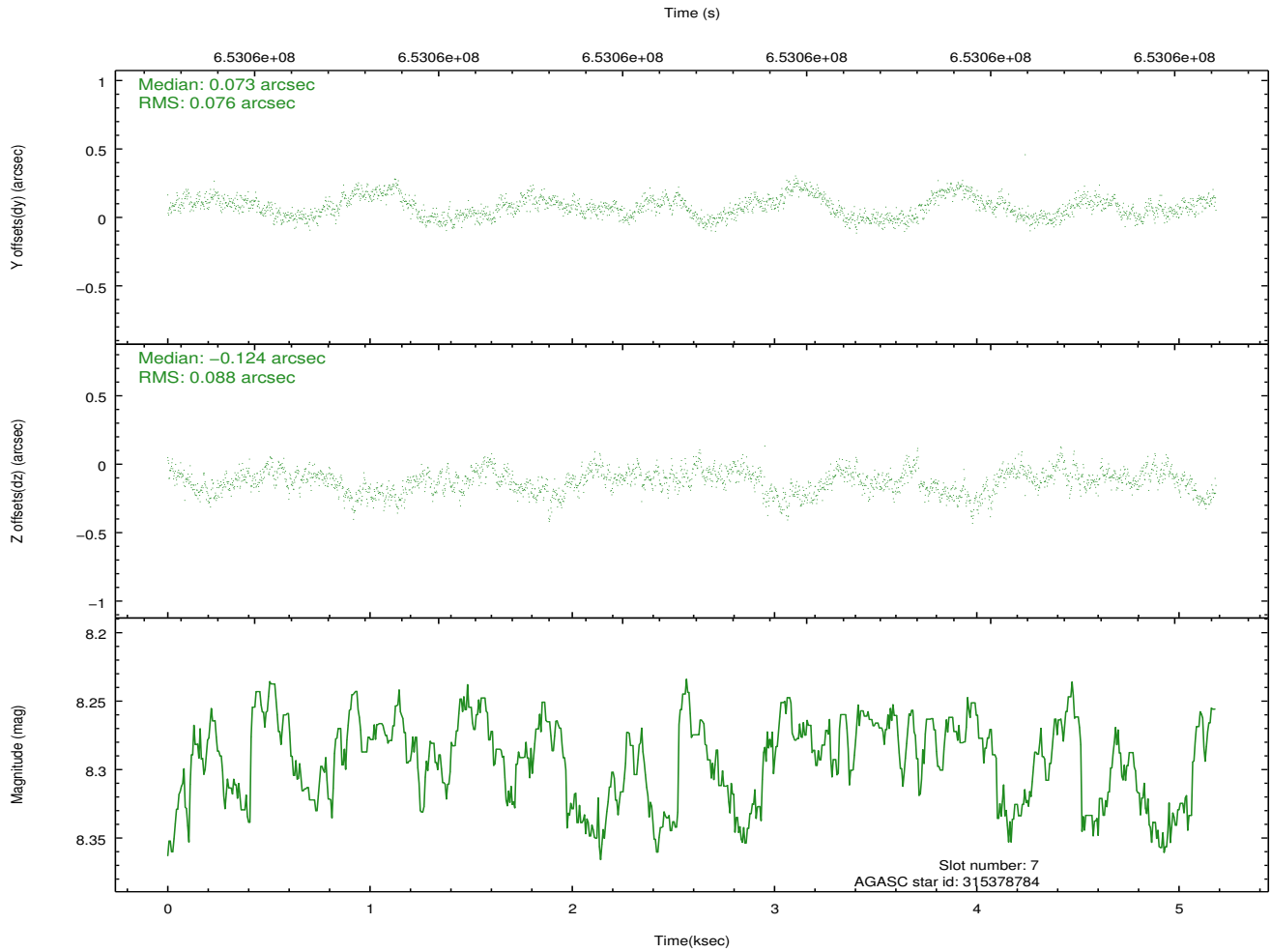
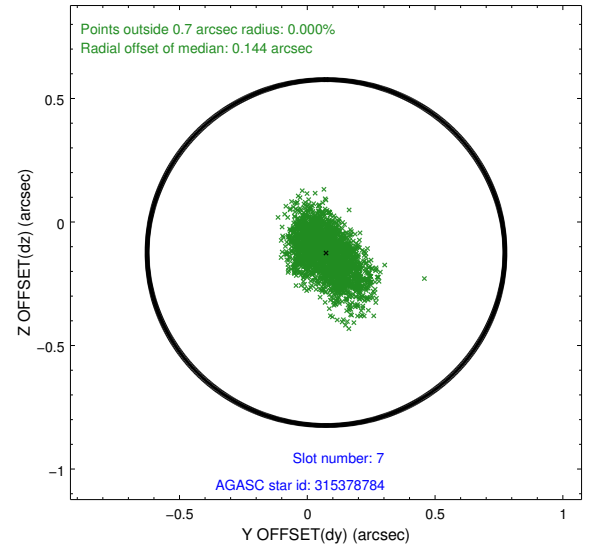
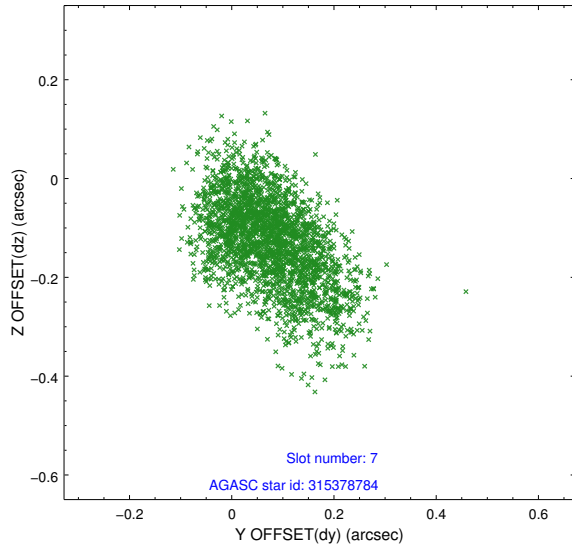
2.4.3 Slot 5



2.4.4 Slot 6

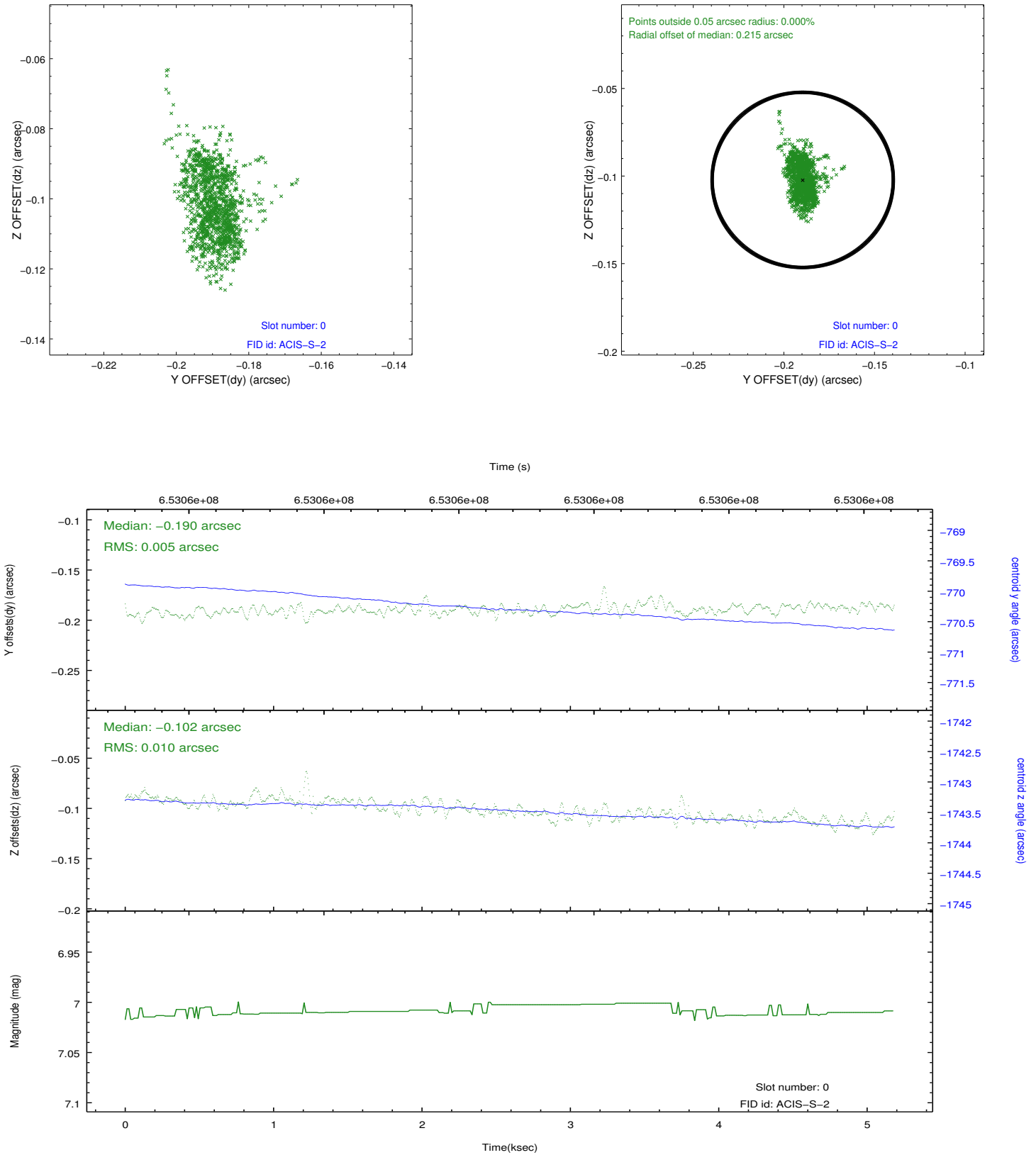


2.4.5 Slot 7

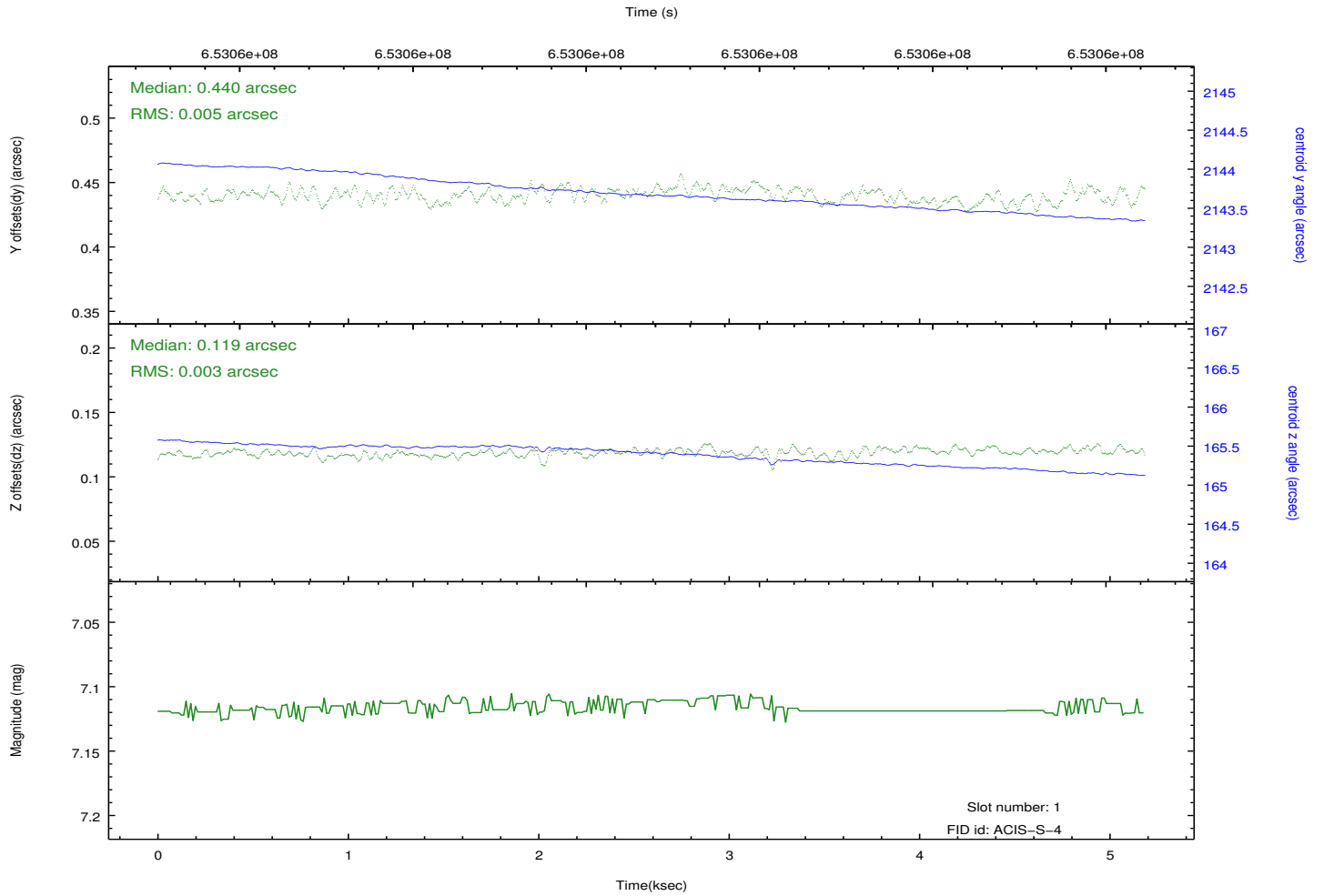
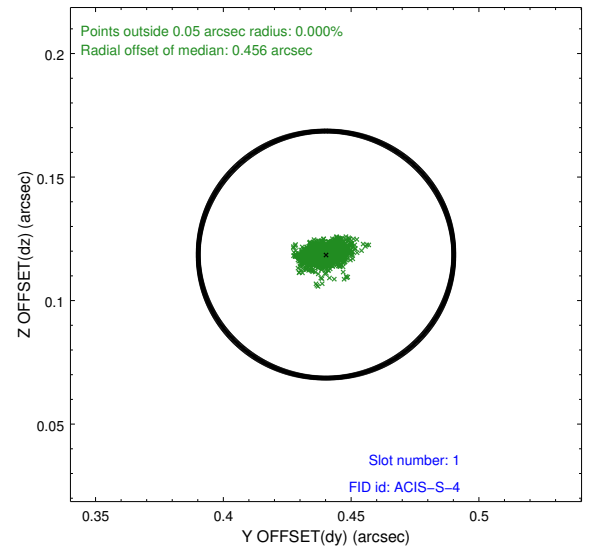
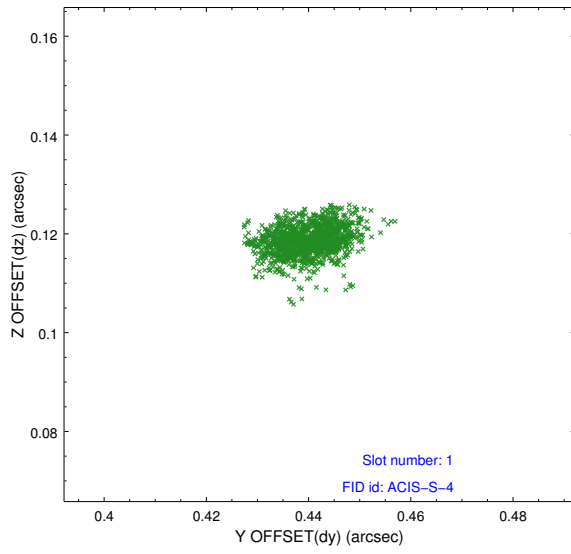


2.5 FID Slots

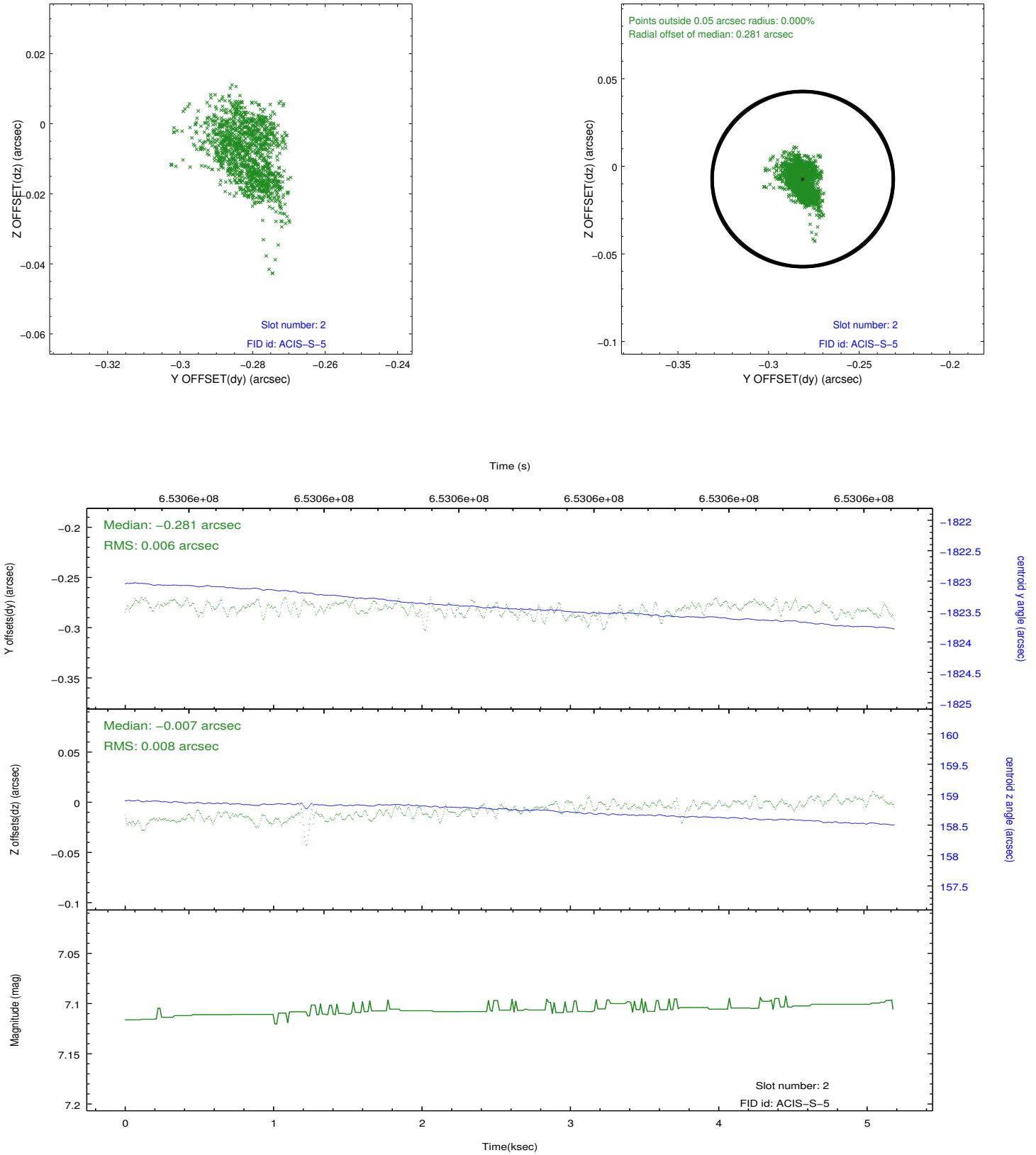
2.5.1 Slot 0



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)	2018.09.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1832000399828

A.2 Comments

This is a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.