

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 21727 - L2 Version 1
Chandra X-Ray Center

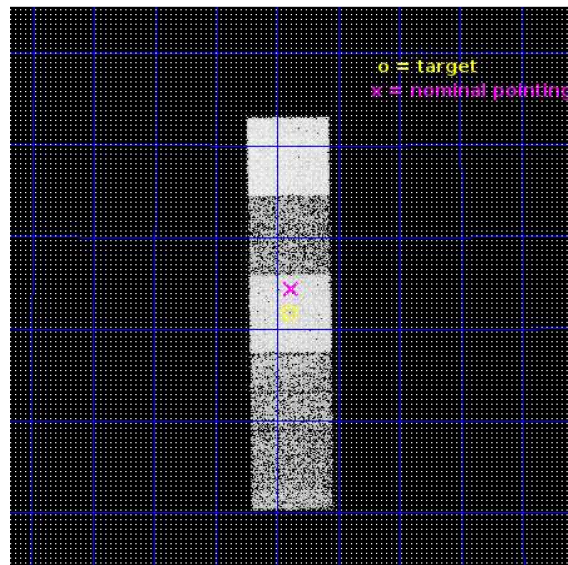
L2 Processing Date : Sep 13 2018

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1 Front

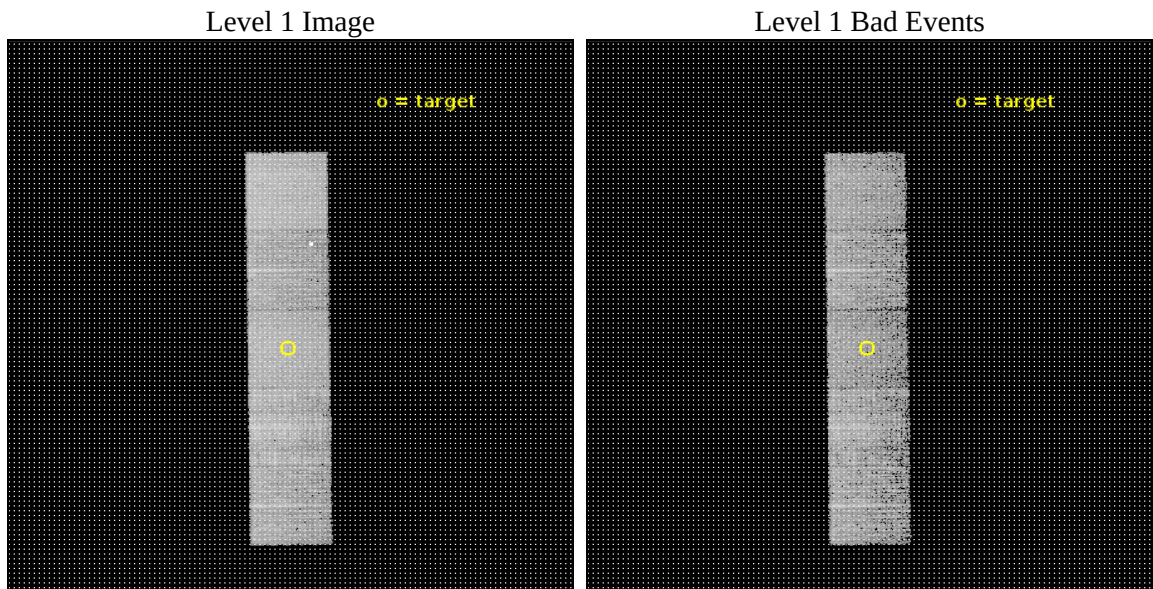
seq_num	100173	Sequence number
obs_id	21727	Observation id
title	Chandra Observations of the High-Heliospheric Latitude Comet 21P/Giacobini-Zinner	Proposal title
observer	Bradford Snios	Principal investigator
object	21P/Giacobini-Zinner	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	88.600297	Observer's specified target RA [deg]
dec_targ	31.19448	Observer's specified target Dec [deg]
ra_nom	88.595948509408	Nominal RA [deg]
dec_nom	31.239926611488	Nominal Dec [deg]
roll_nom	89.261266691501	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	67141	Number of level 2 events



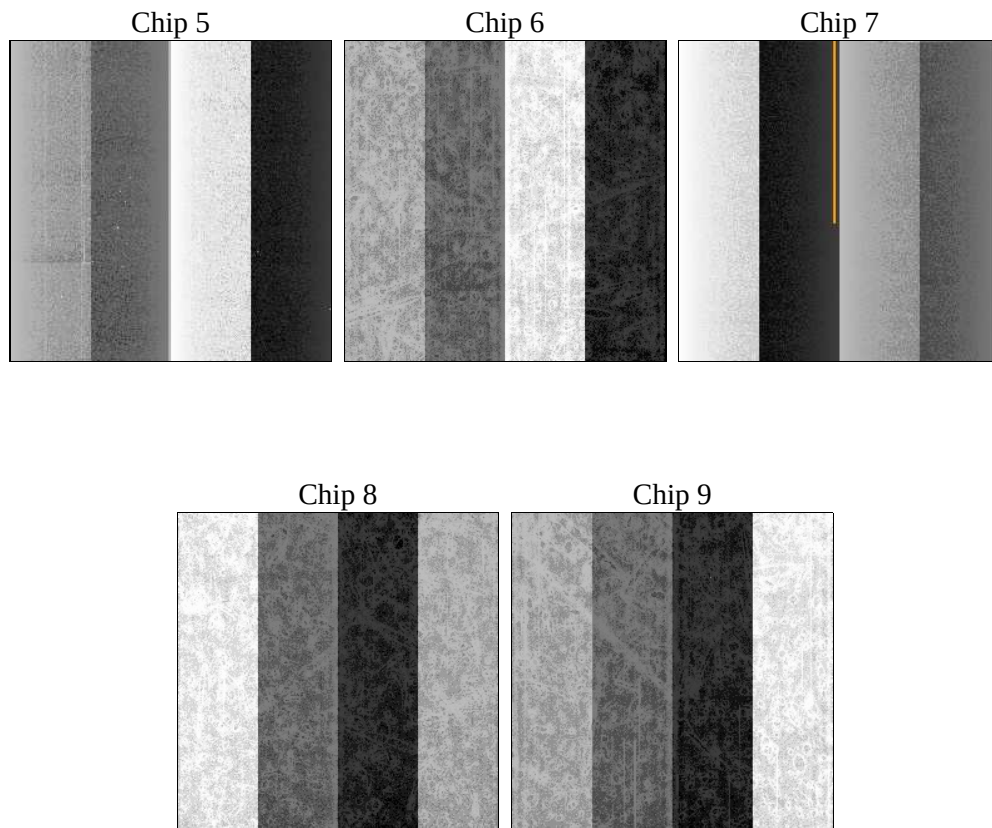
2 OBI

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]
caldbver	4.8.0	 	ontime5	5183.2000399828	Sum of GTIs [s]
date	2018-09-13T07:21:39	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	265261	Number of level 1 events

2.1.4 Events

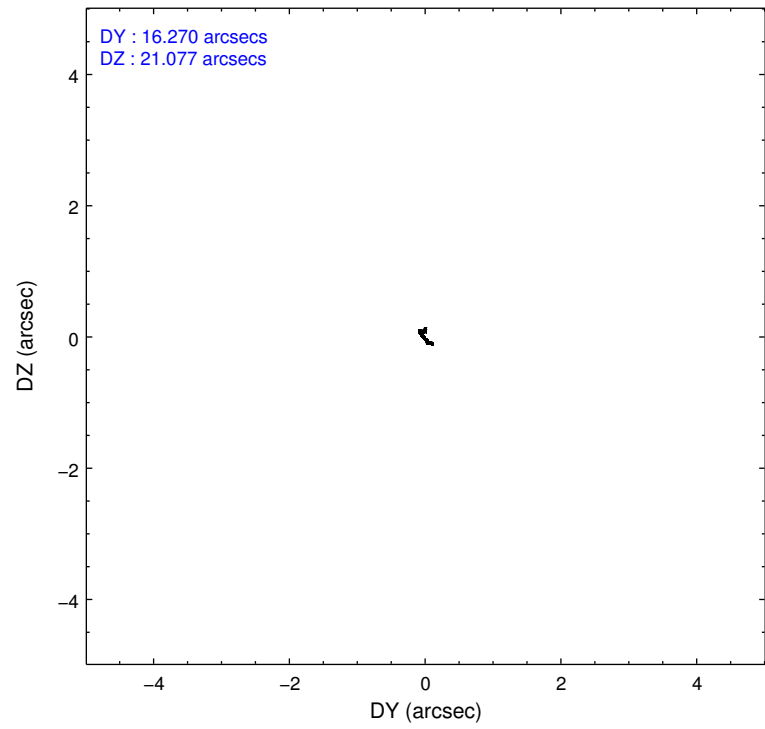
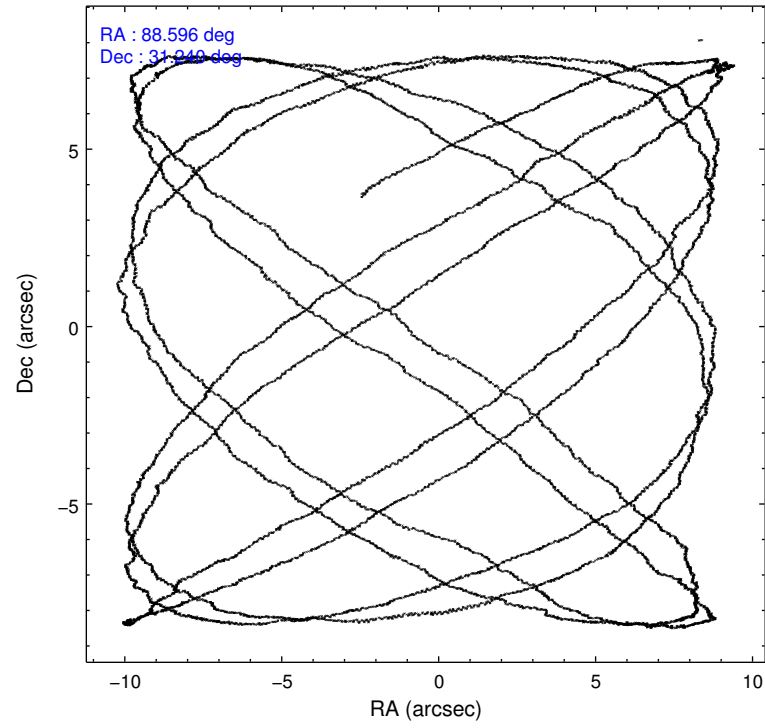
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	66373	44625	53939	56345	43979
rejected events	36321	38084	31110	41586	38473
rejected %	54%	85%	57%	73%	87%

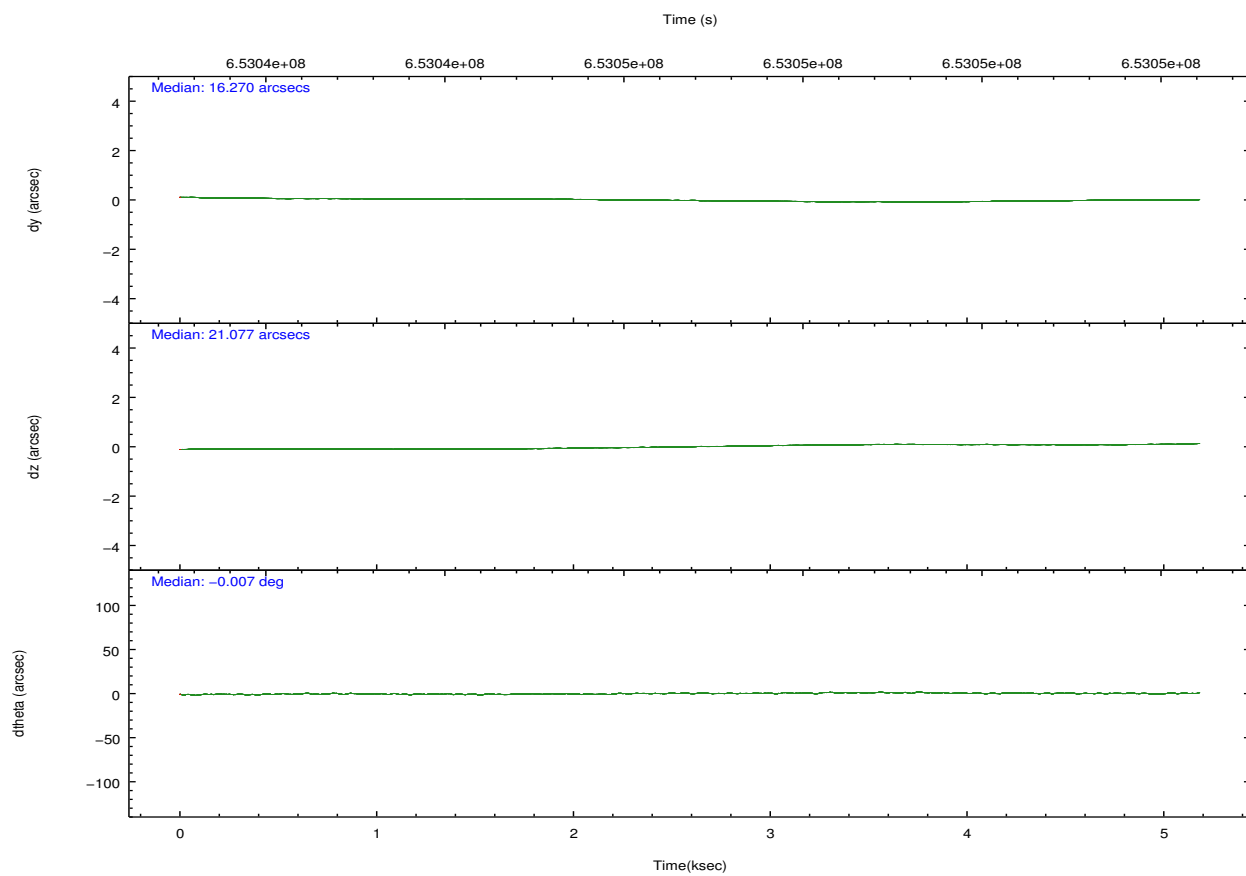
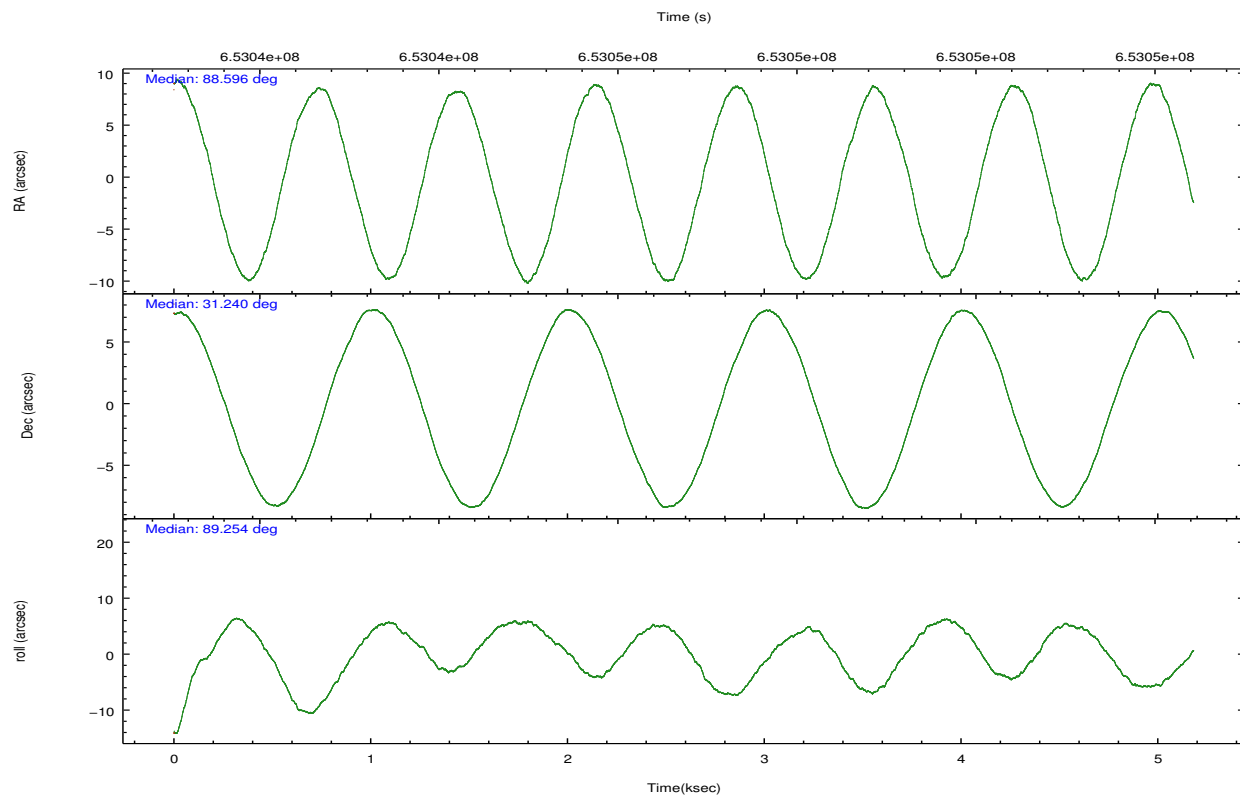
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	1777	3594	2150	5009	2293
	2%	8%	3%	8%	5%
grade 1 events	147	33	68	58	17
	0%	0%	0%	0%	0%
grade 2 events	10063	1216	5035	3754	1290
	15%	2%	9%	6%	2%
grade 3 events	975	467	1928	1496	543
	1%	1%	3%	2%	1%
grade 4 events	962	454	1866	1401	521
	1%	1%	3%	2%	1%
grade 5 events	4558	1941	5267	2954	2245
	6%	4%	9%	5%	5%
grade 6 events	18176	1215	13272	3952	1179
	27%	2%	24%	7%	2%
grade 7 events	29715	35705	24353	37721	35891
	44%	80%	45%	66%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-56789	ACIS-56789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	88.611935	88.59594850940842	CCD I2 on	N	N
[deg] Pointing Dec	31.216100	31.23992661148791	CCD I3 on	N	N
[deg] Pointing Roll	89.096360	89.26126669150146	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	653043953.184000	653043576.99568	CCD S5 on	O2	Y
Observation start date	2018-09-11T09:04:44	2018-09-11T08:59:36	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	653048953.184000	653049087.39601	On-chip summing requested	N	N
Observation end date	2018-09-11T10:28:04	2018-09-11T10:31:27	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



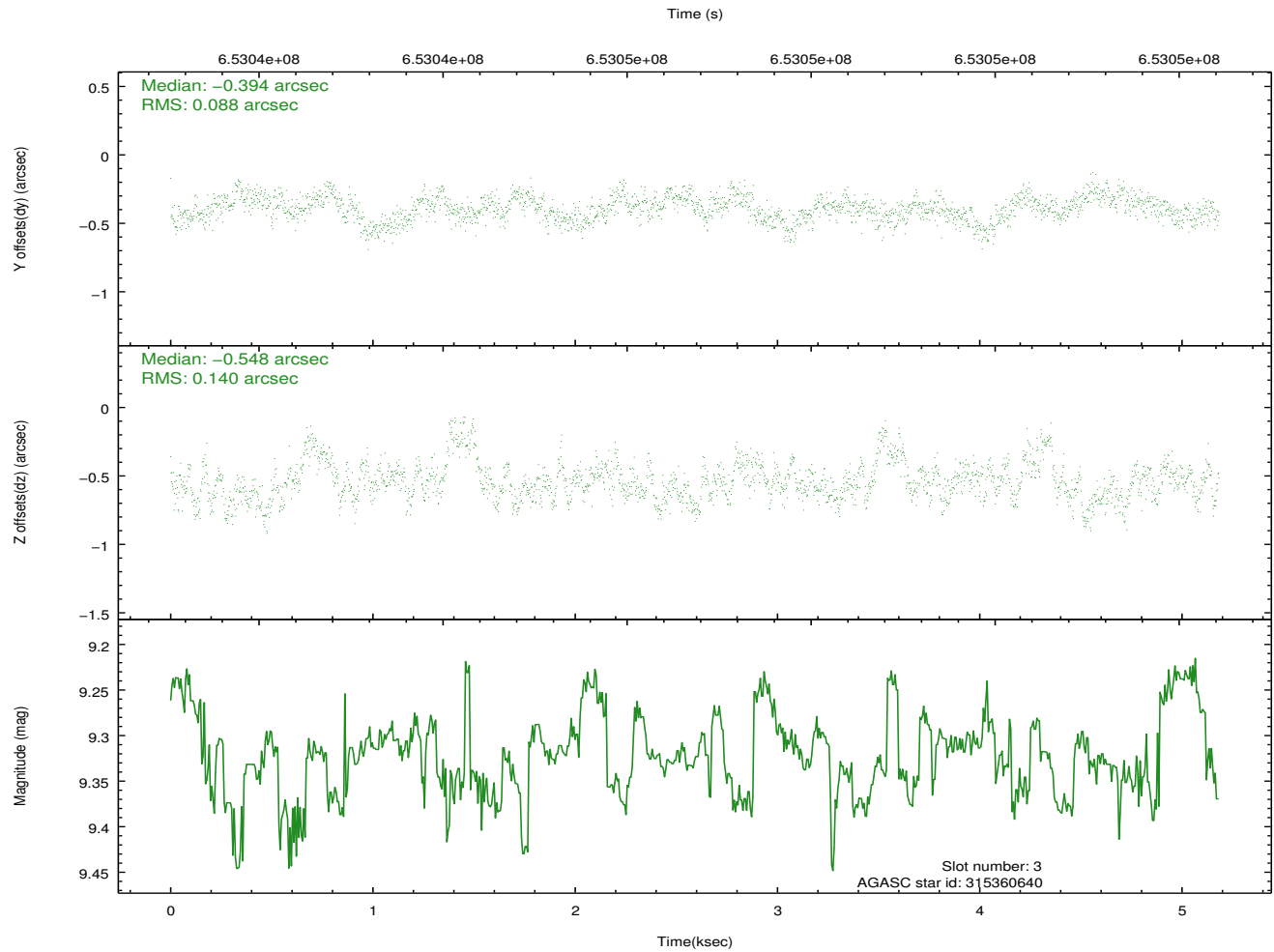
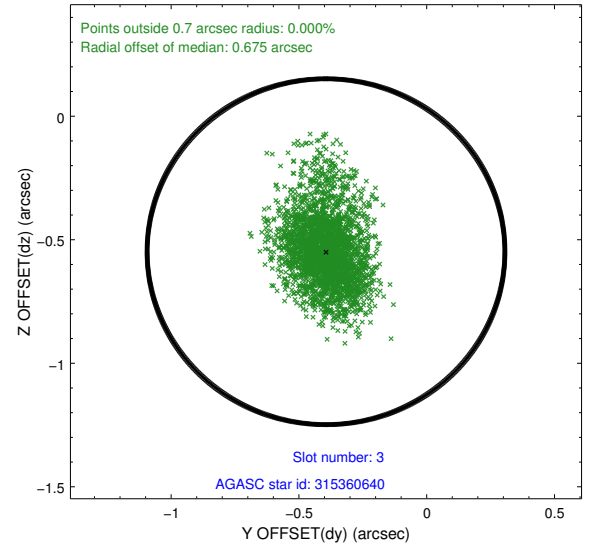
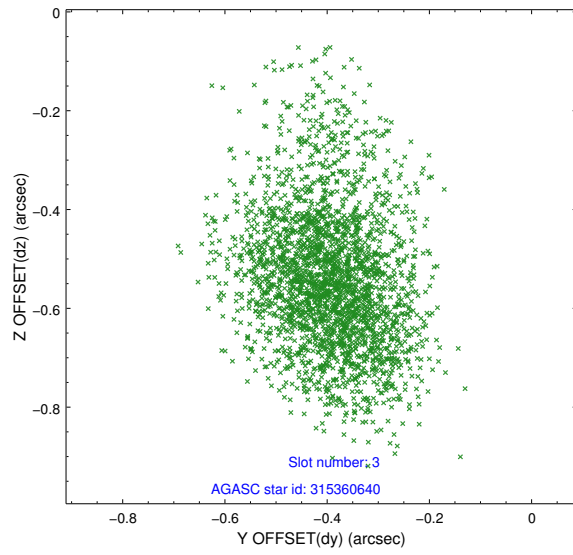


Slot Statistics

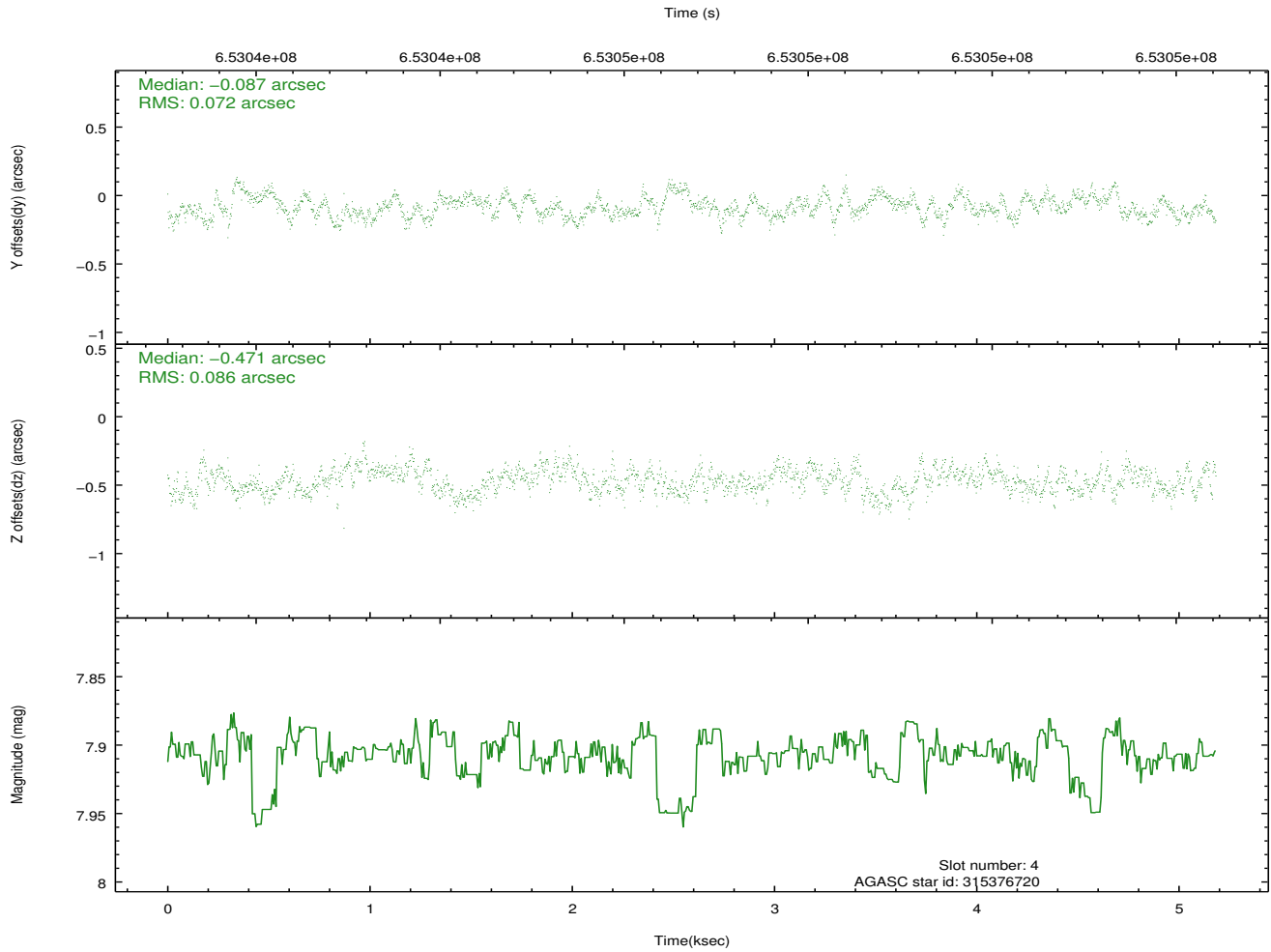
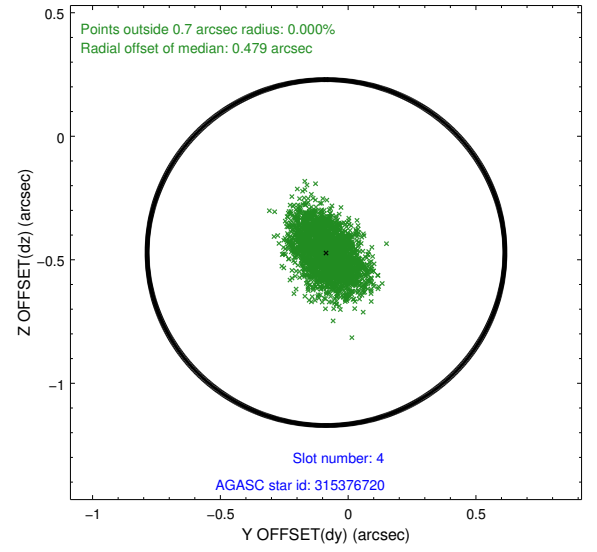
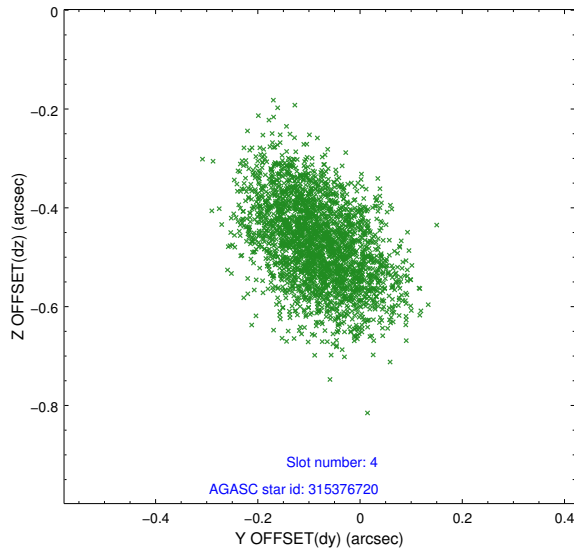
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.12	1265	1.000	0.026	-0.092	0.007	0.013	0.000000	0.000000	926.83	-1738
1	FID		ACIS-S-4	7.15	1265	1.000	0.364	0.056	0.006	0.012	0.000000	0.000000	2145.17	164
2	FID		ACIS-S-5	7.14	1264	1.000	-0.417	0.048	0.007	0.013	0.000000	0.000000	-1821.04	159
3	GUIDE	used	315360640	9.32	2527	1.000	-0.394	-0.548	0.168	0.299	88.146825	31.452830	832.18	1441
4	GUIDE	used	315376720	7.91	2528	1.000	-0.087	-0.471	0.121	0.193	87.931221	30.957268	-958.29	2087
5	GUIDE	used	315376832	8.93	2524	1.000	0.226	0.167	0.153	0.241	88.765158	30.804192	-1475.07	-495
6	GUIDE	used	315376264	8.71	2526	1.000	0.231	0.423	0.119	0.194	88.902699	30.711380	-1801.51	-928
7	GUIDE	used	315375496	8.66	2526	1.000	0.019	0.435	0.124	0.207	89.379333	31.109784	-337.56	-2370

2.4 Star Slots

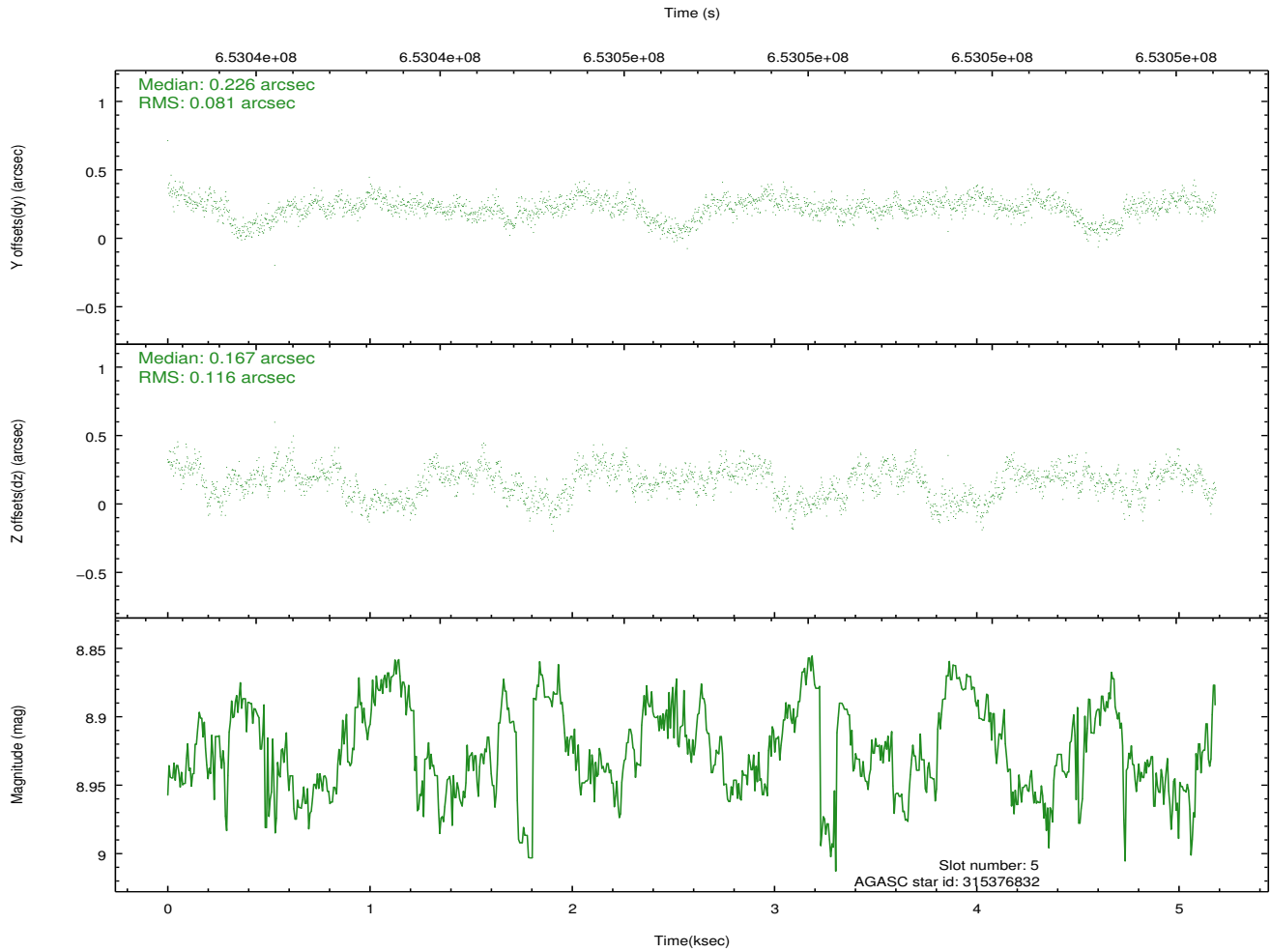
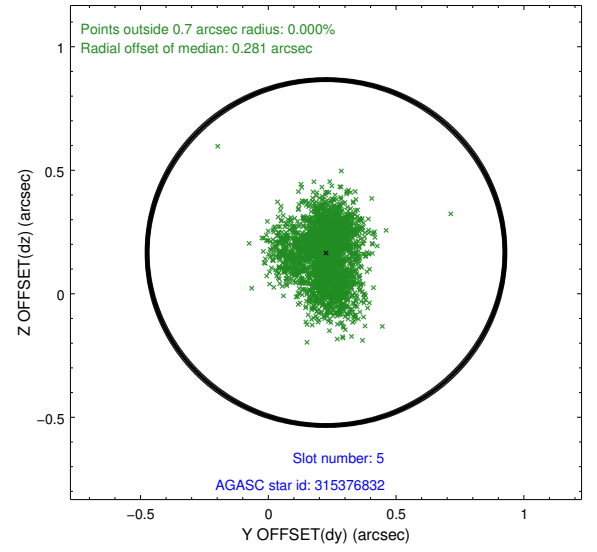
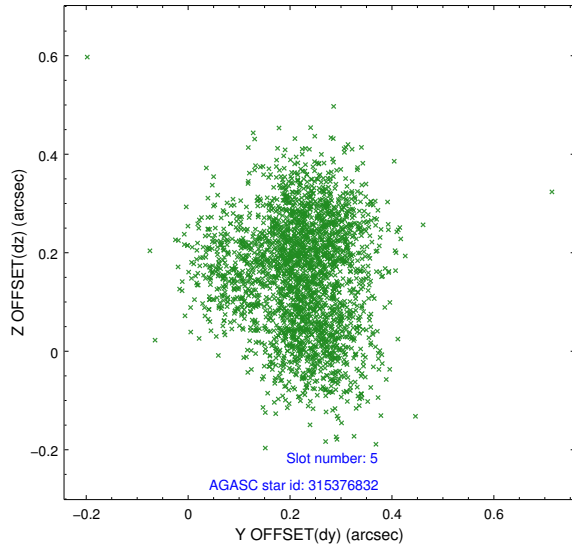
2.4.1 Slot 3



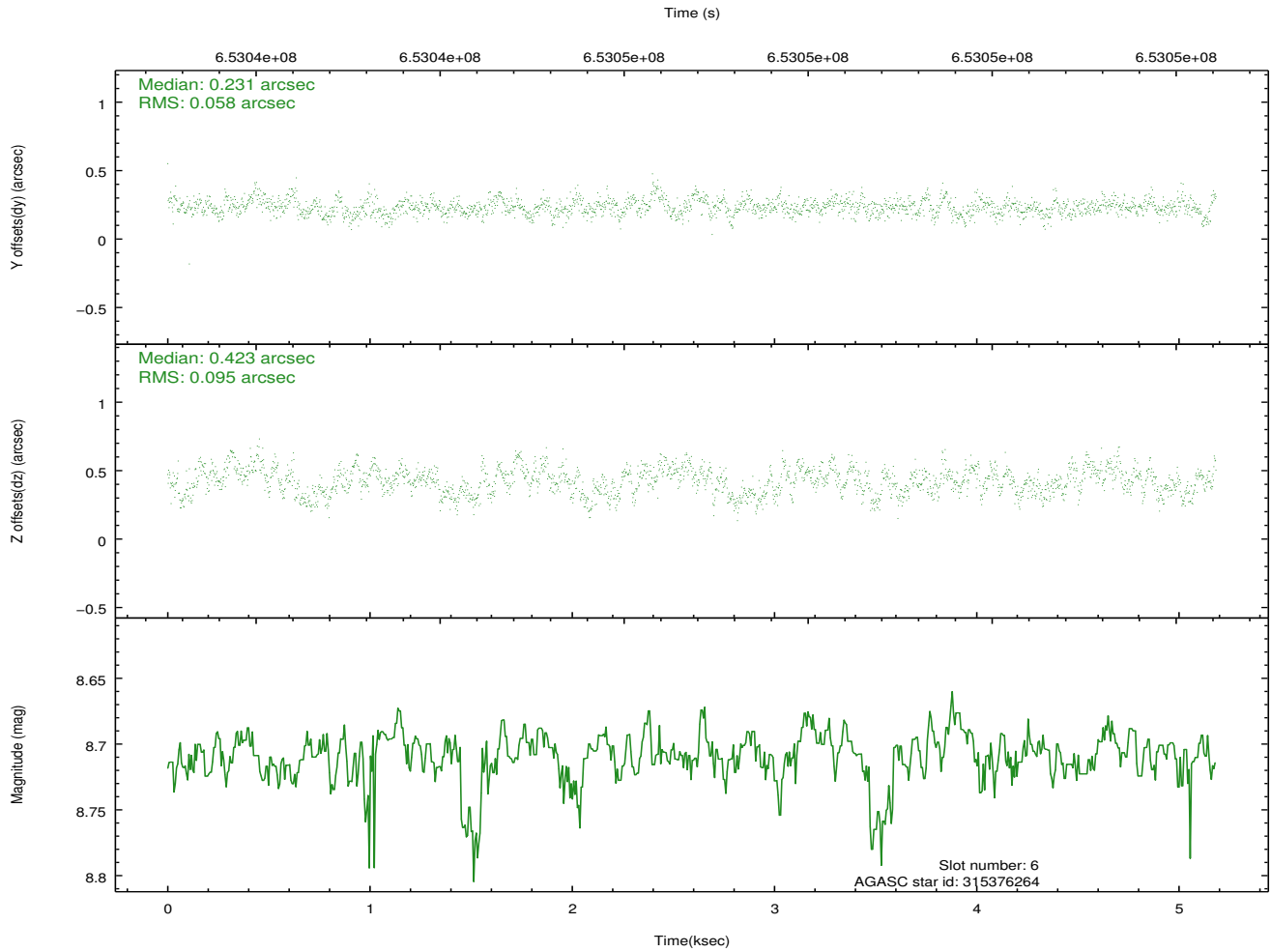
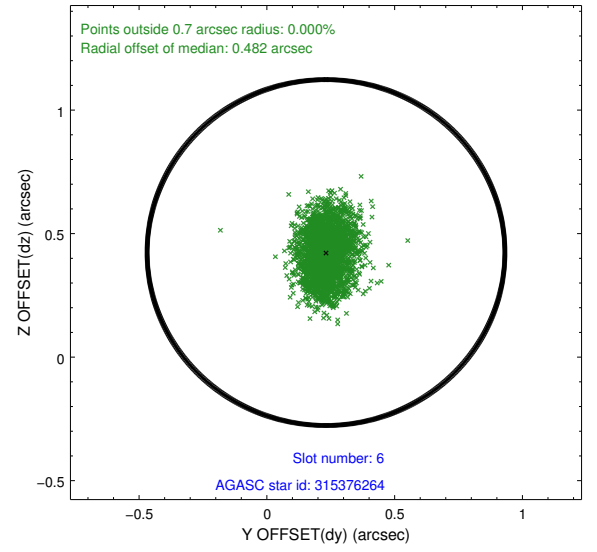
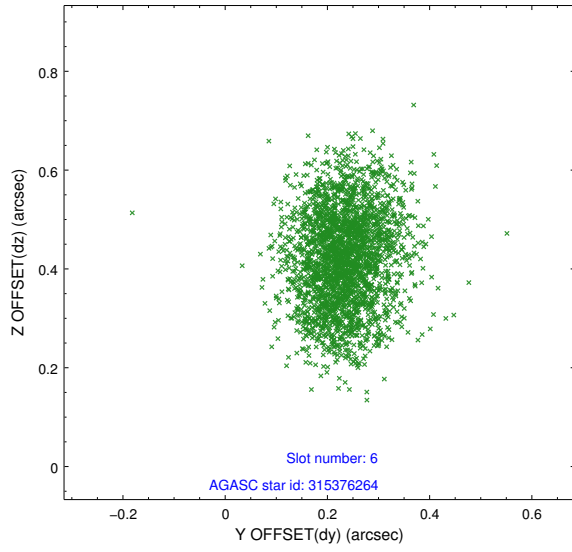
2.4.2 Slot 4



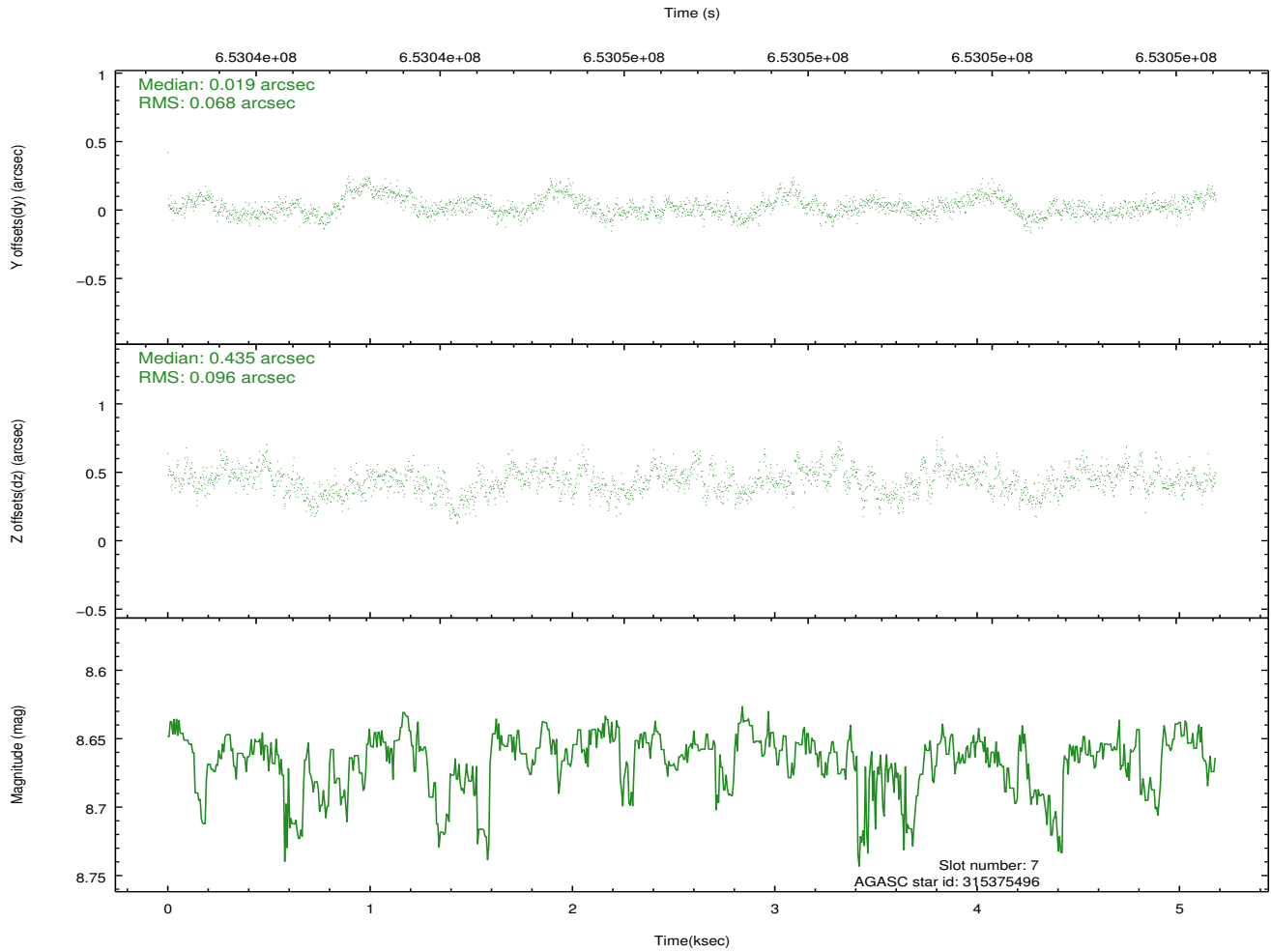
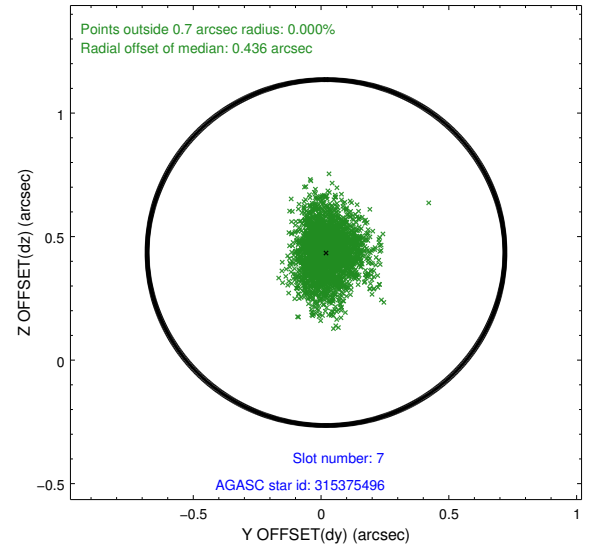
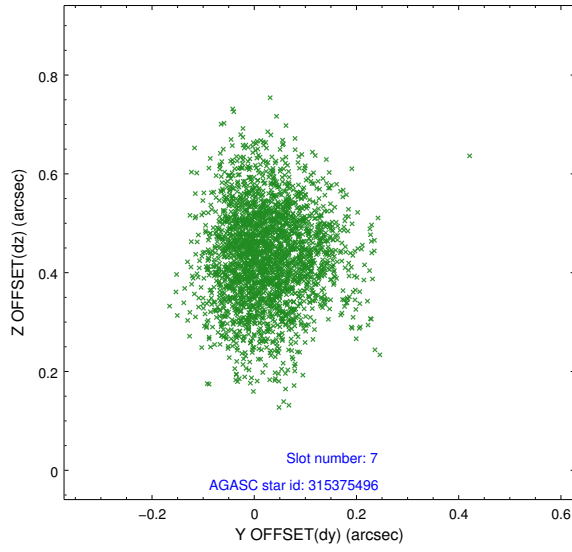
2.4.3 Slot 5



2.4.4 Slot 6

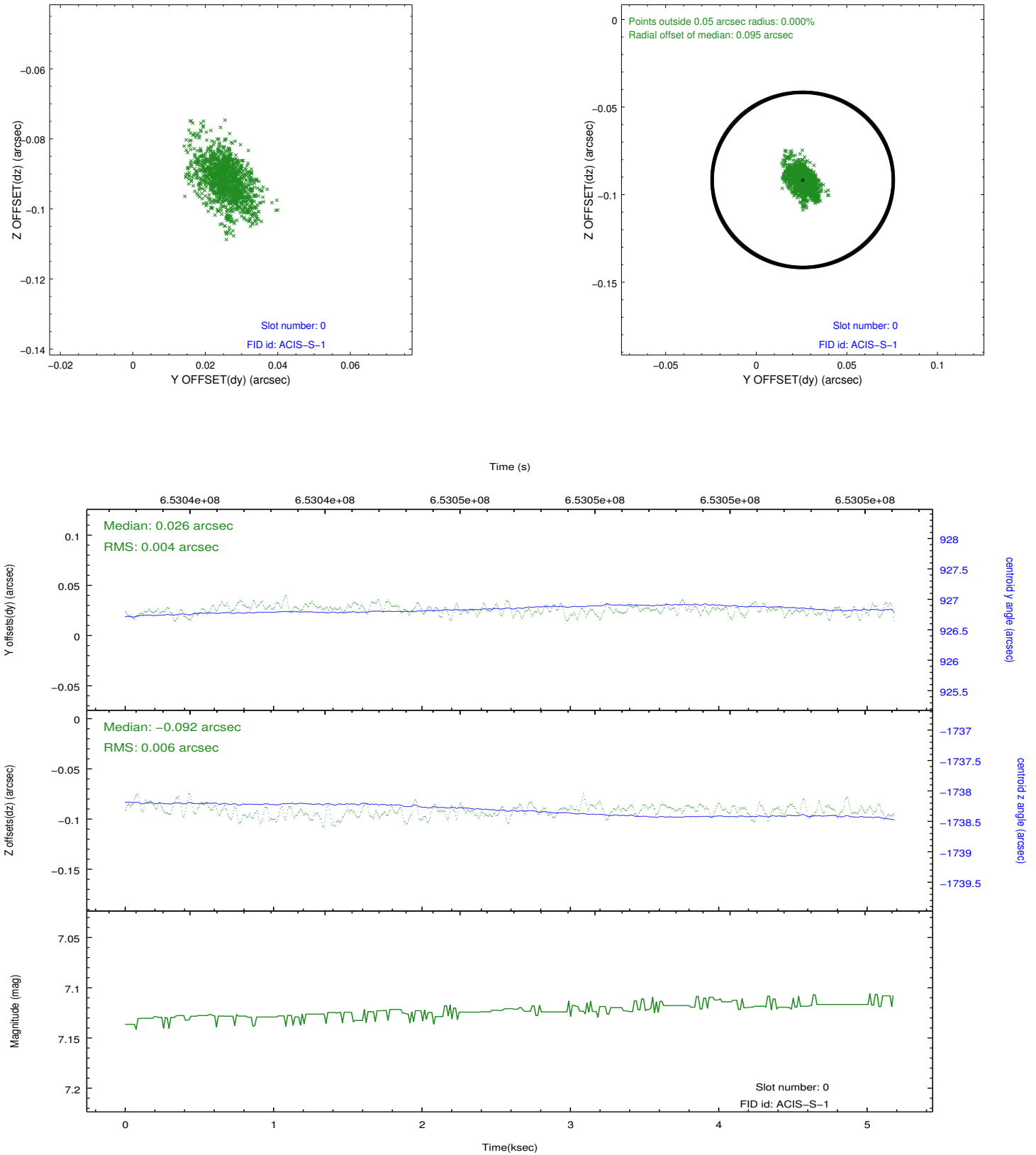


2.4.5 Slot 7

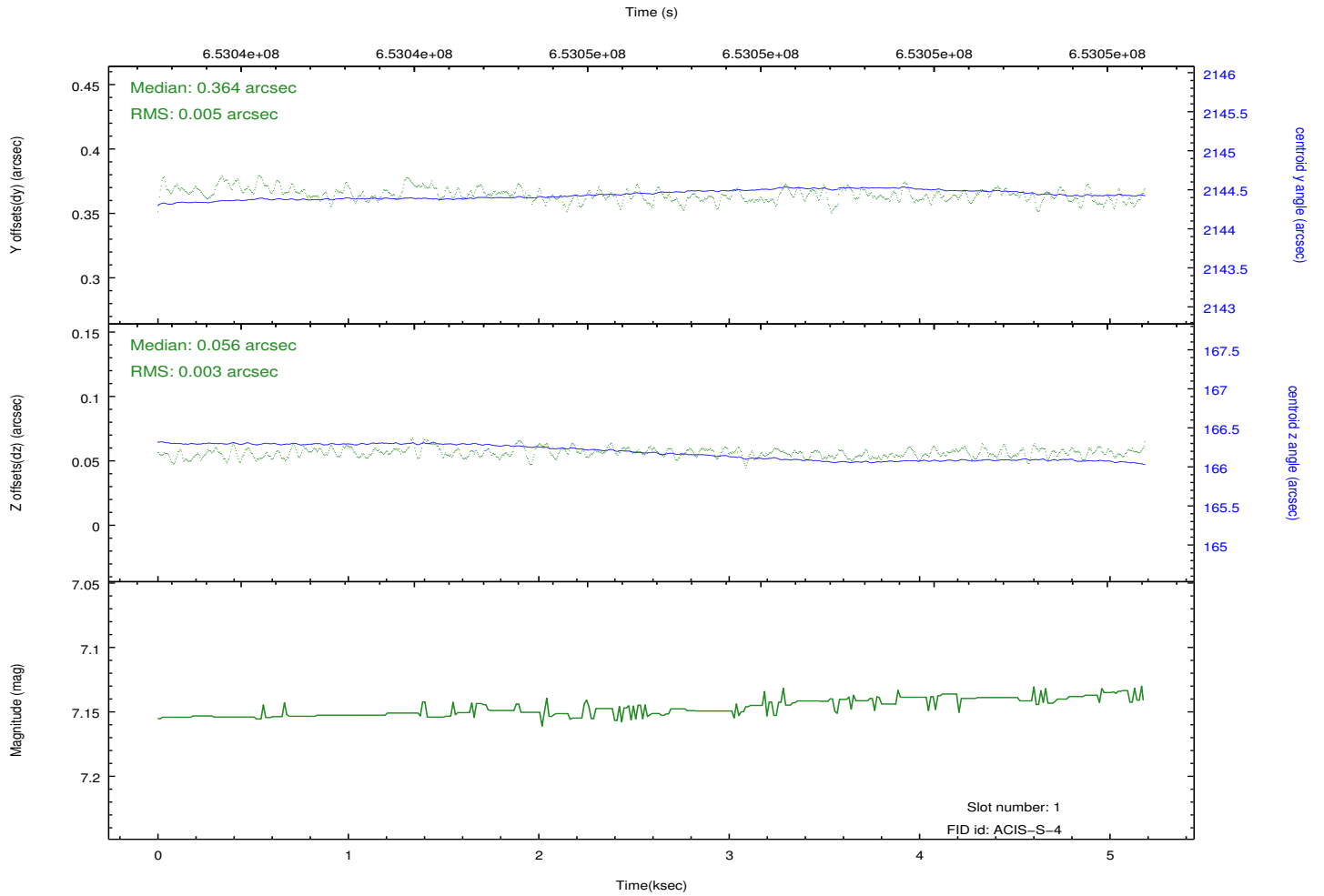
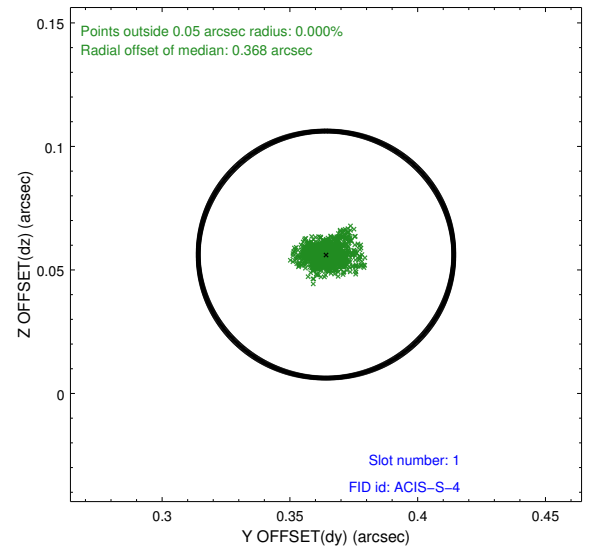
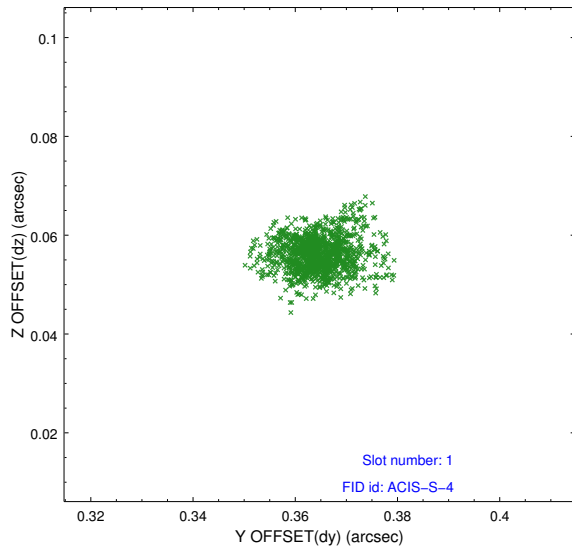


2.5 FID Slots

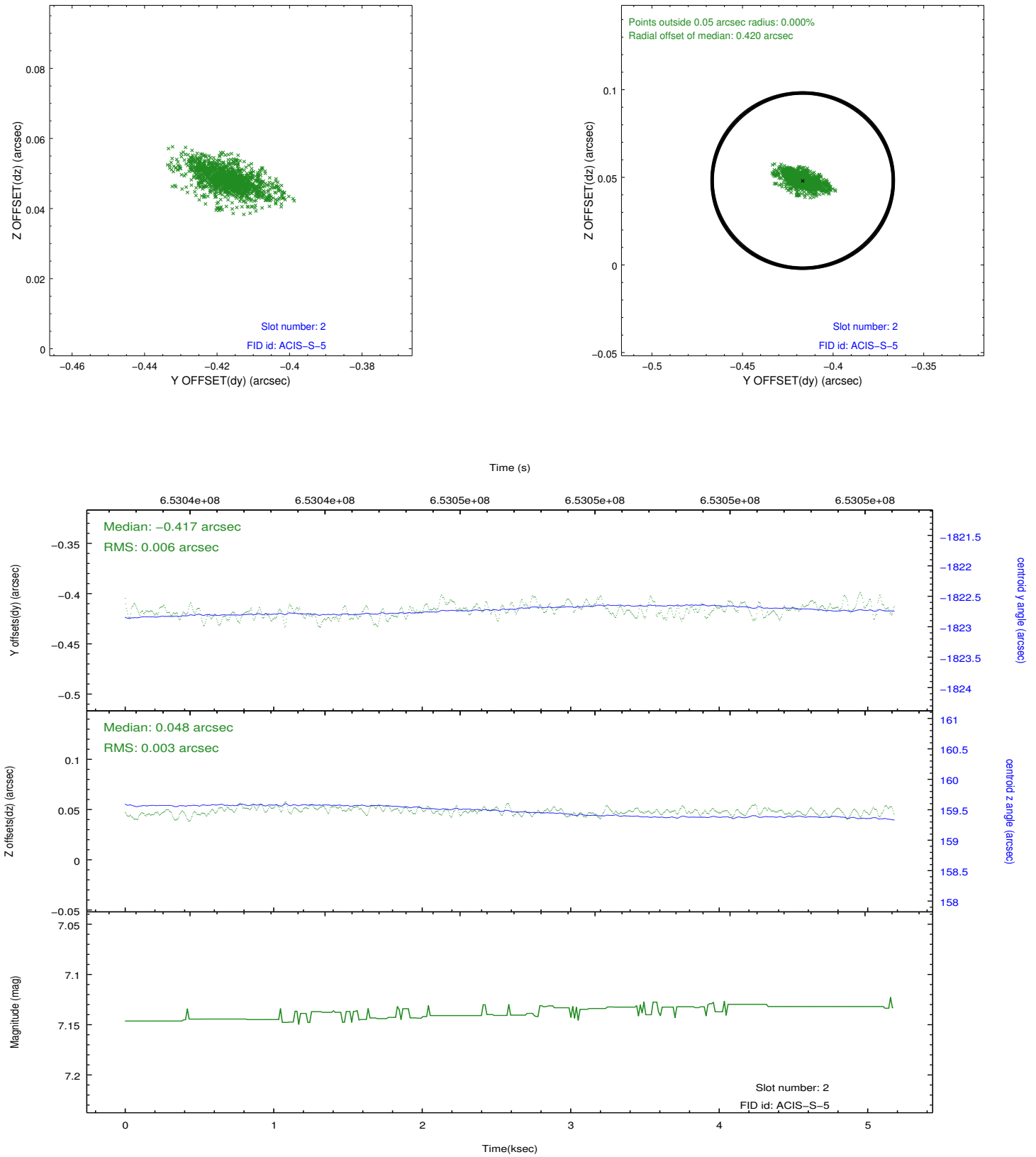
2.5.1 Slot 0



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.