

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 21730 - L2 Version 1
Chandra X-Ray Center

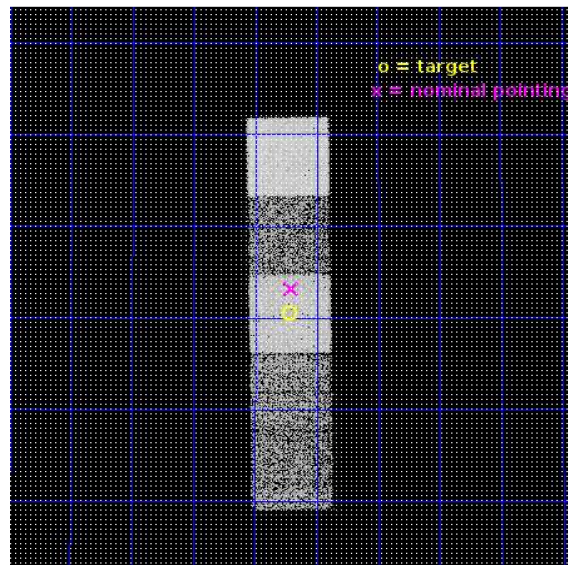
L2 Processing Date : Sep 13 2018

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

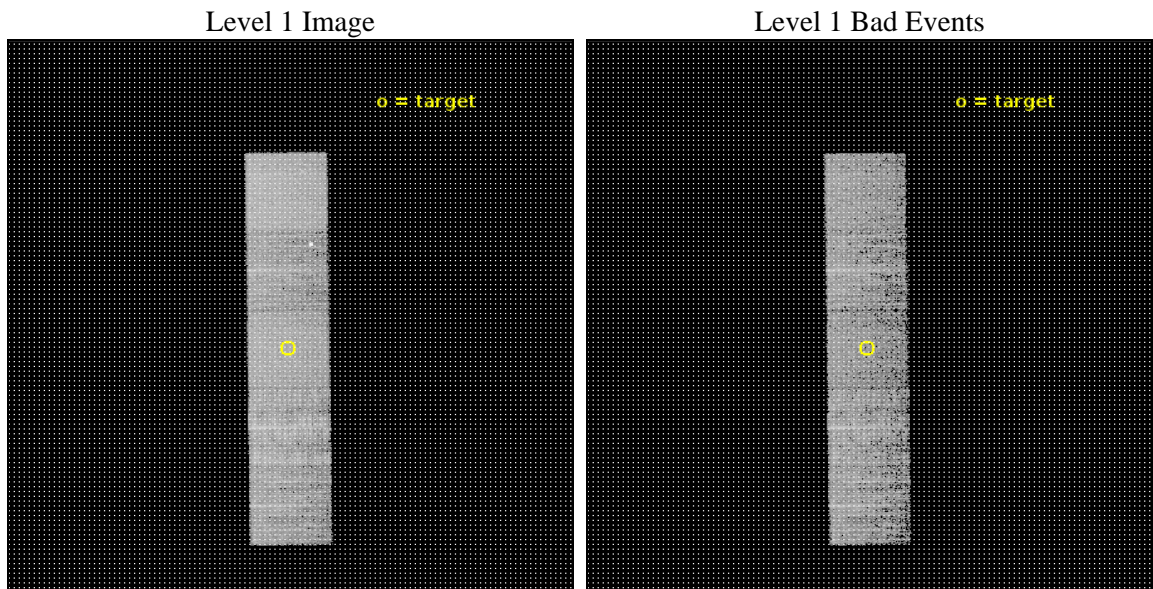
seq_num	100173	Sequence number
obs_id	21730	Observation id
title	Chandra Observations of the High-Heliospheric Latitude Comet 21P/Giacobini-Zinner	Proposal title
observer	Bradford Snios	Principal investigator
object	21P/Giacobini-Zinner	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	88.805943	Observer's specified target RA [deg]
dec_targ	30.840644	Observer's specified target Dec [deg]
ra_nom	88.801232341244	Nominal RA [deg]
dec_nom	30.886408447154	Nominal Dec [deg]
roll_nom	89.235748384087	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5173.9000399113	Sum of GTIs [s]
livetime	5106.29922692	Livetime [s]
ontime5	5173.9000399113	Sum of GTIs [s]
ontime6	5173.9000399113	Sum of GTIs [s]
ontime7	5173.9000399113	Sum of GTIs [s]
ontime8	5173.9000399113	Sum of GTIs [s]
ontime9	5173.9000399113	Sum of GTIs [s]
l2events	62102	Number of level 2 events



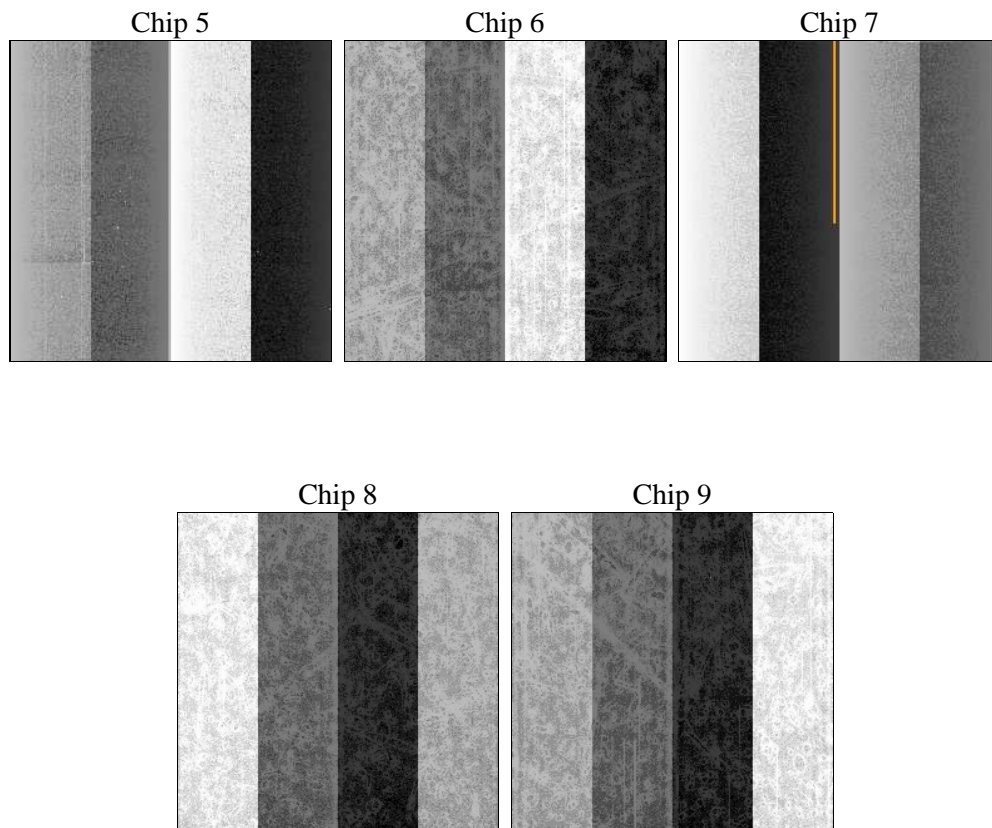
2 OBI

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	5173.9000399113	Sum of GTIs [s]
caldsver	4.8.0	 	ontime5	5173.9000399113	Sum of GTIs [s]
date	2018-09-13T07:26:39	Date and time of file creation	ontime6	5173.9000399113	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	5173.9000399113	Sum of GTIs [s]
			ontime8	5173.9000399113	Sum of GTIs [s]
			ontime9	5173.9000399113	Sum of GTIs [s]
			l1events	253799	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	64278	42319	52506	54426	40270
rejected events	35651	36504	30672	40148	35671
rejected %	55%	86%	58%	73%	88%

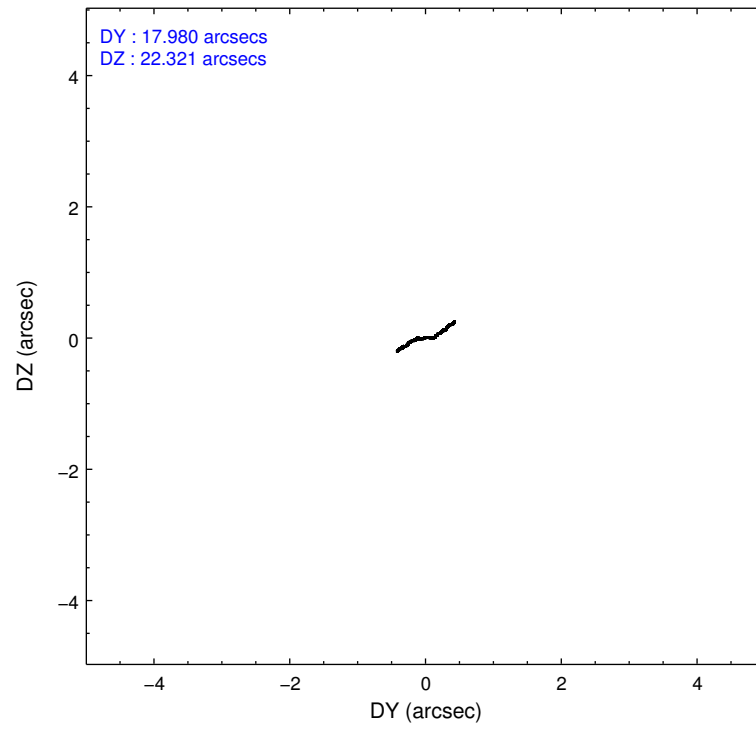
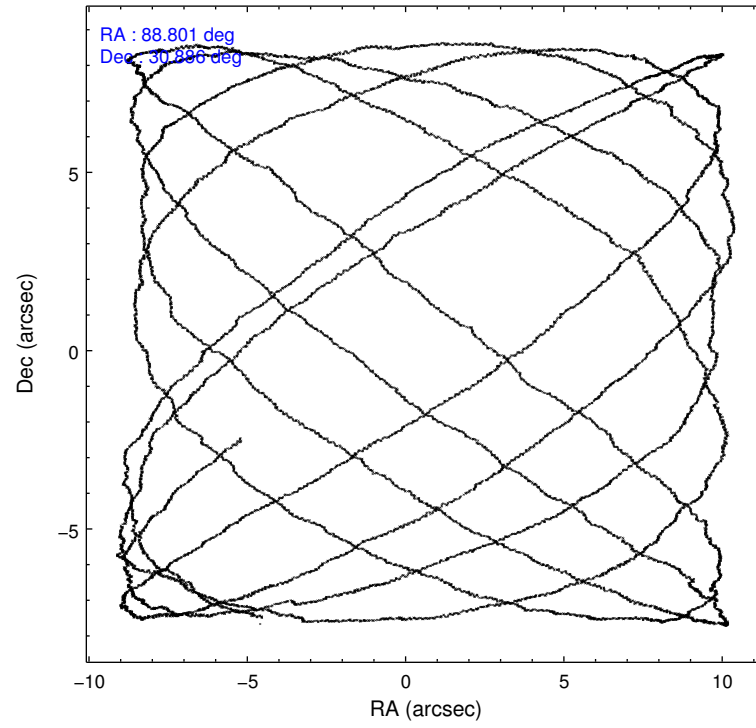
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	1832	3014	2114	4294	1690
	2%	7%	4%	7%	4%
grade 1 events	136	36	67	48	28
	0%	0%	0%	0%	0%
grade 2 events	9725	1168	5096	3796	1178
	15%	2%	9%	6%	2%
grade 3 events	1049	461	1866	1491	514
	1%	1%	3%	2%	1%
grade 4 events	1032	457	1785	1342	477
	1%	1%	3%	2%	1%
grade 5 events	4775	2034	5133	2923	2286
	7%	4%	9%	5%	5%
grade 6 events	16894	1044	12385	4159	1067
	26%	2%	23%	7%	2%
grade 7 events	28835	34105	24060	36373	33030
	44%	80%	45%	66%	82%

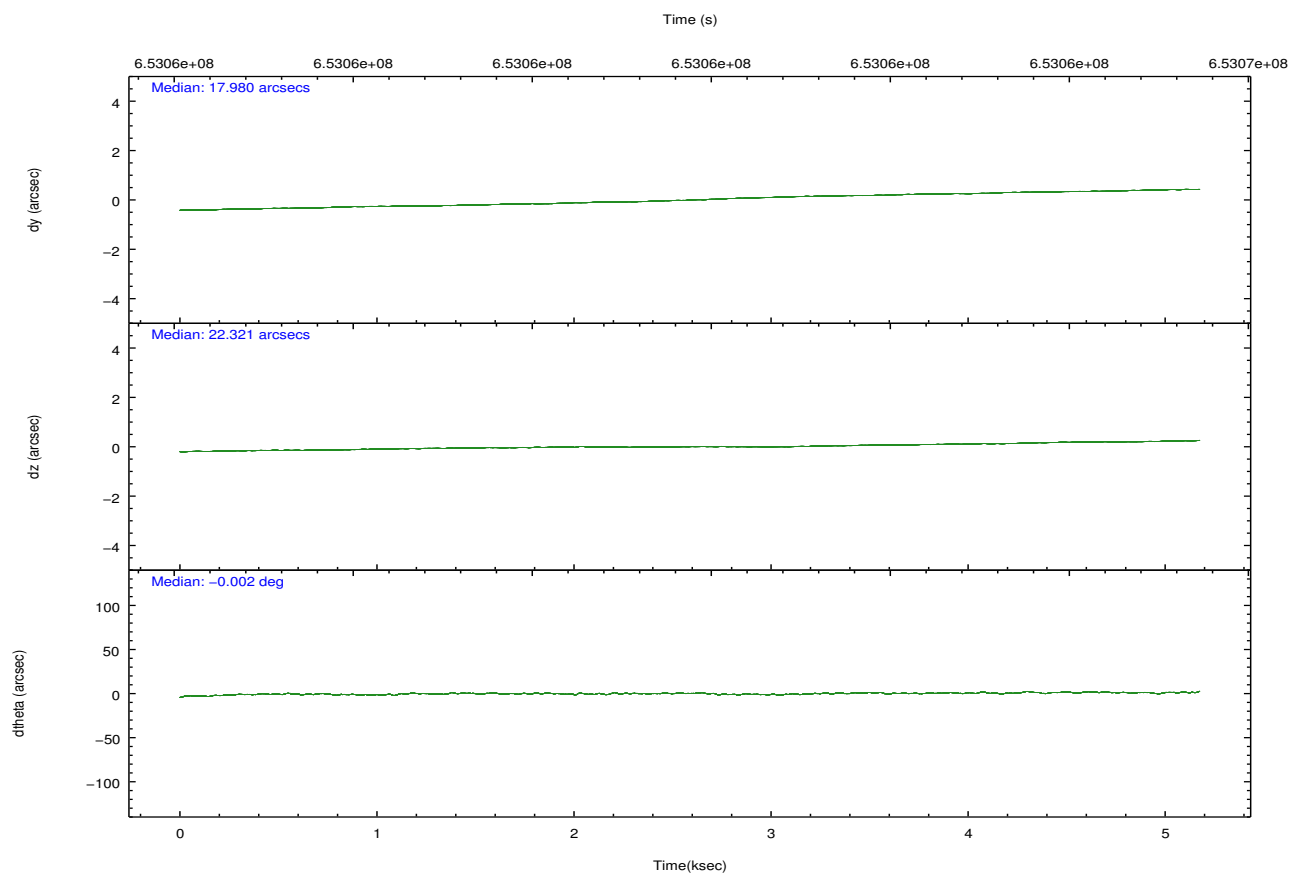
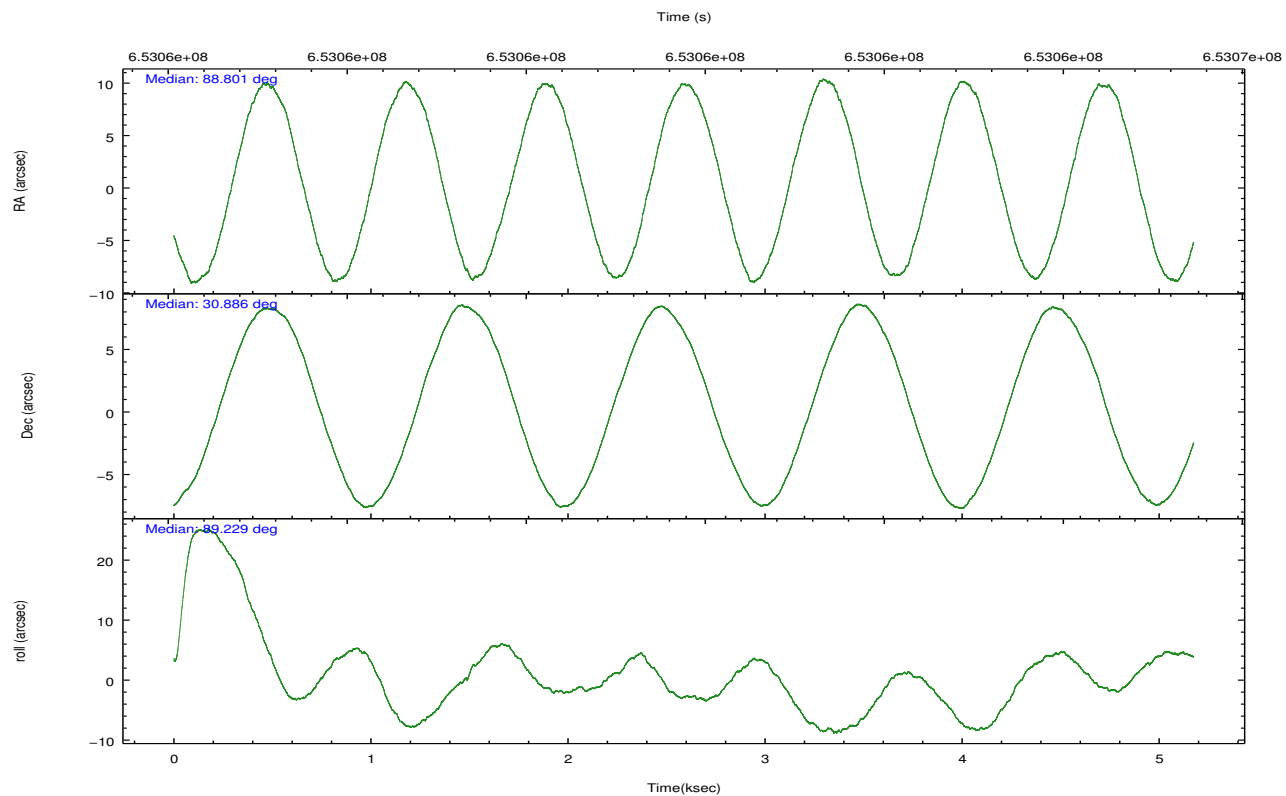
2.2 Compared Parameters

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	88.817315	88.80123234124405
[deg] Pointing Dec	30.862687	30.88640844715447
[deg] Pointing Roll	89.070877	89.23574838408722
[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)	653060483.184000	653060107.1716599
Observation start date	2018-09-11T13:40:14	2018-09-11T13:35:07
[s] Observation end time (MET)	653065483.184000	653065617.05949
Observation end date	2018-09-11T15:03:34	2018-09-11T15:06:57
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



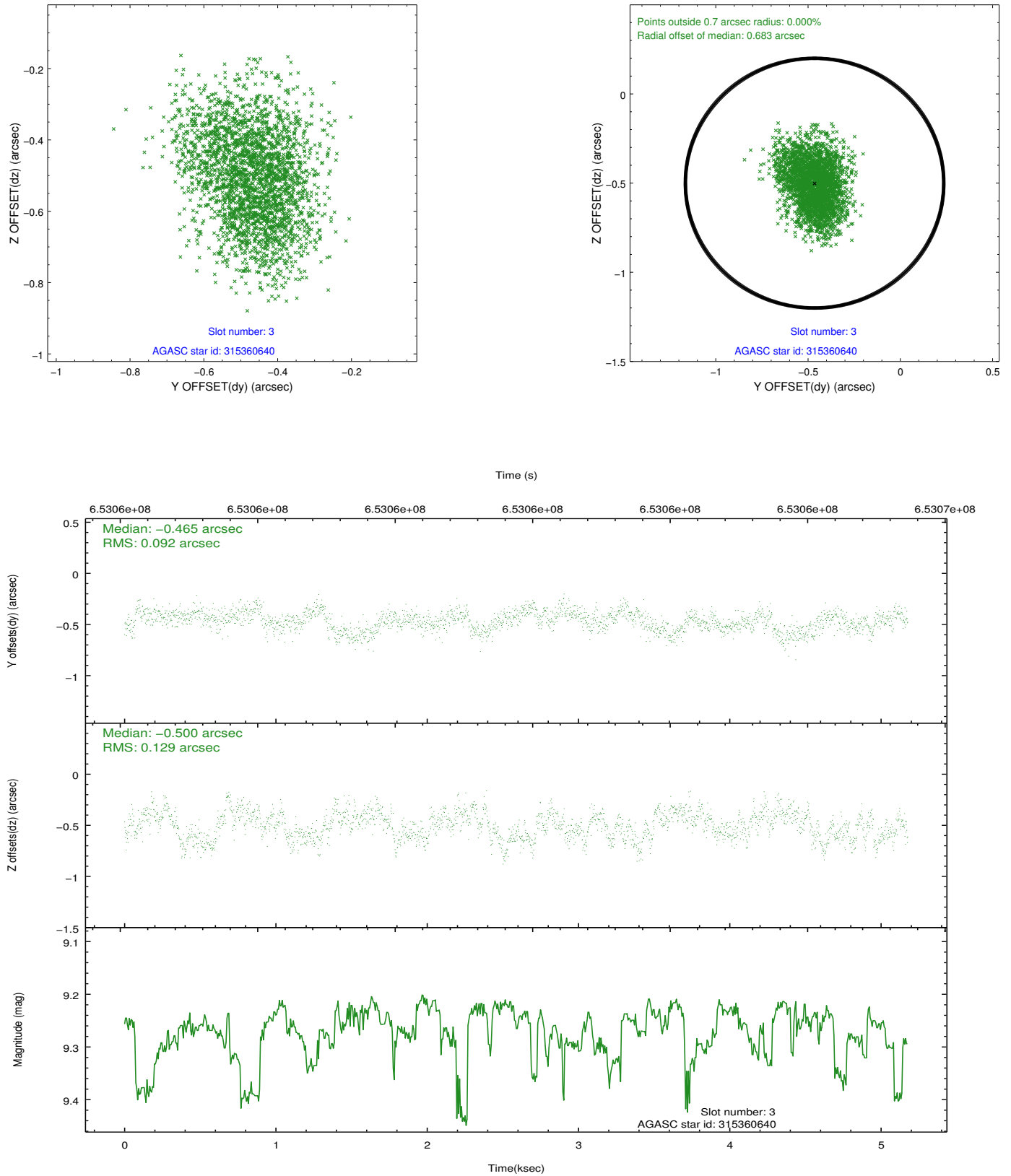


Slot Statistics

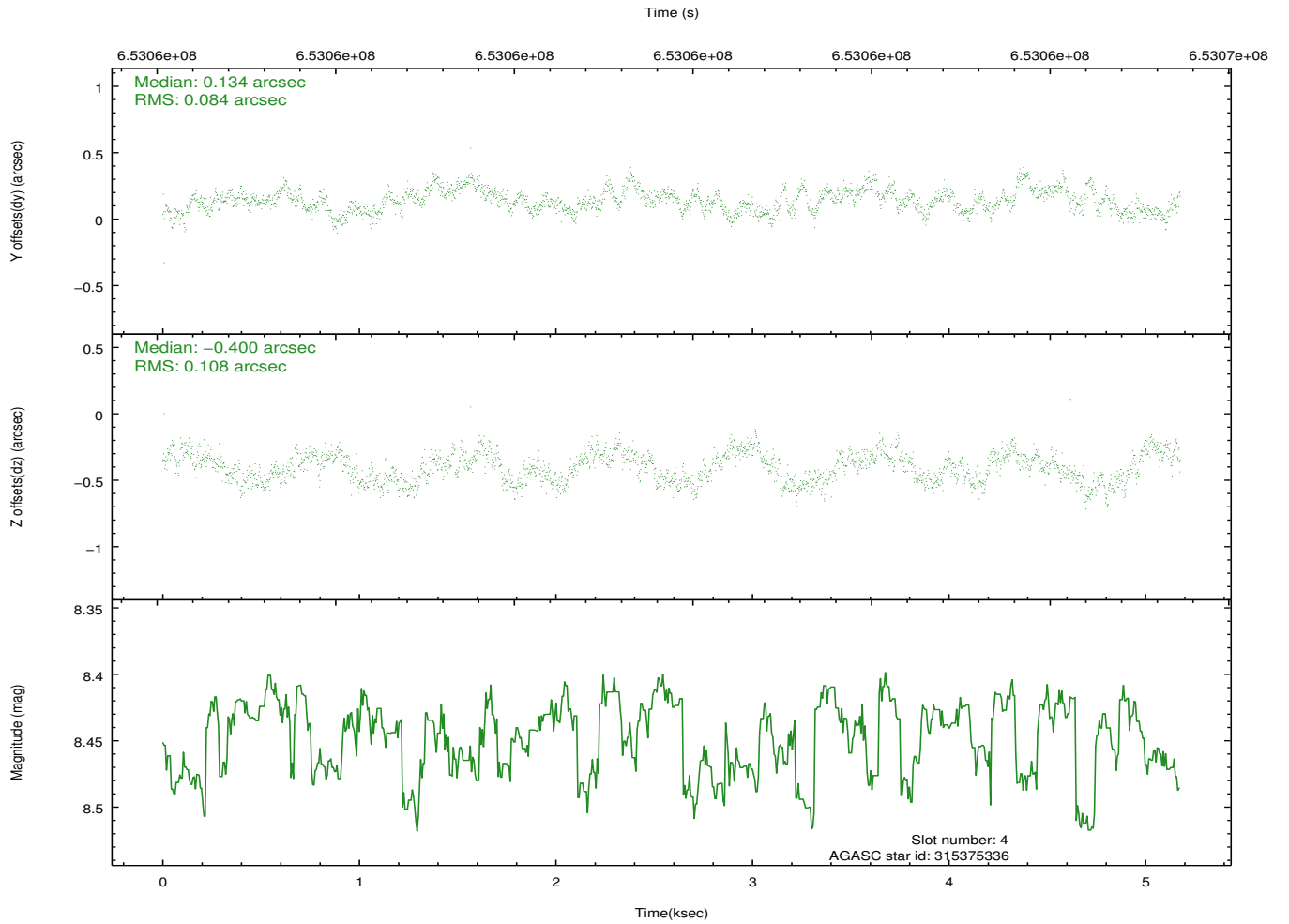
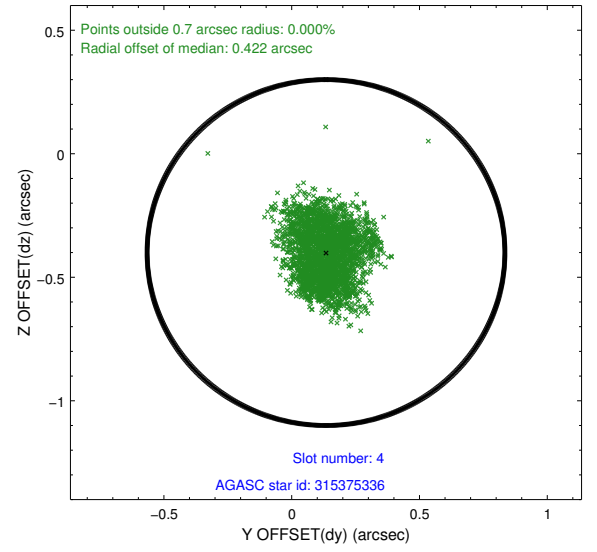
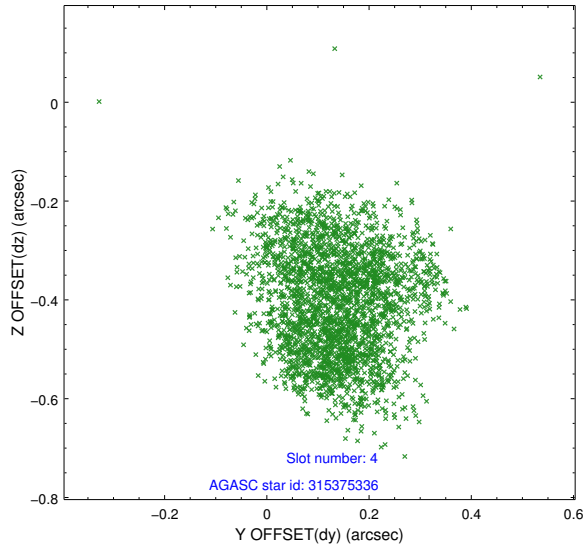
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.00	1263	1.000	-0.019	-0.099	0.008	0.014	0.000000	0.000000	-771.12	-1743
1	FID		ACIS-S-5	7.11	1263	1.000	-0.186	-0.005	0.010	0.016	0.000000	0.000000	-1824.87	156
2	FID		ACIS-S-6	7.25	1263	1.000	0.178	0.112	0.009	0.014	0.000000	0.000000	389.51	802
3	GUIDE	used	315360640	9.27	2522	1.000	-0.465	-0.500	0.170	0.273	88.146825	31.452830	2096.89	2093
4	GUIDE	used	315375336	8.44	2524	1.000	0.134	-0.400	0.149	0.218	88.334590	30.449269	-1510.18	1474
5	GUIDE	used	315376264	8.73	2524	1.000	0.245	0.411	0.136	0.219	88.902699	30.711380	-540.08	-272
6	GUIDE	used	315378784	8.30	2523	1.000	0.227	0.119	0.127	0.191	88.722786	30.337477	-1895.13	262
7	GUIDE	used	315375496	8.67	2522	1.000	-0.141	0.376	0.097	0.170	89.379333	31.109784	921.57	-1717

2.4 Star Slots

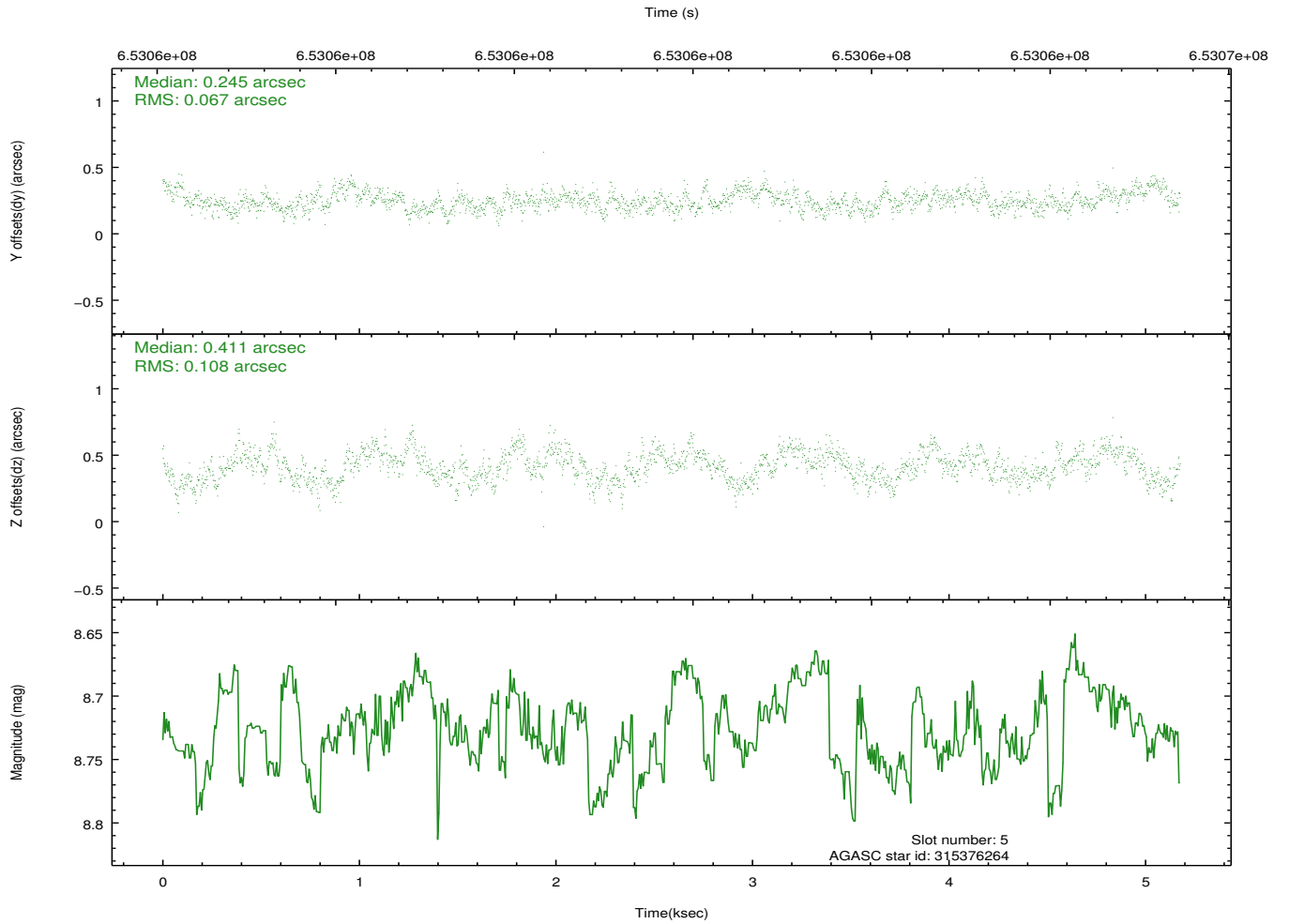
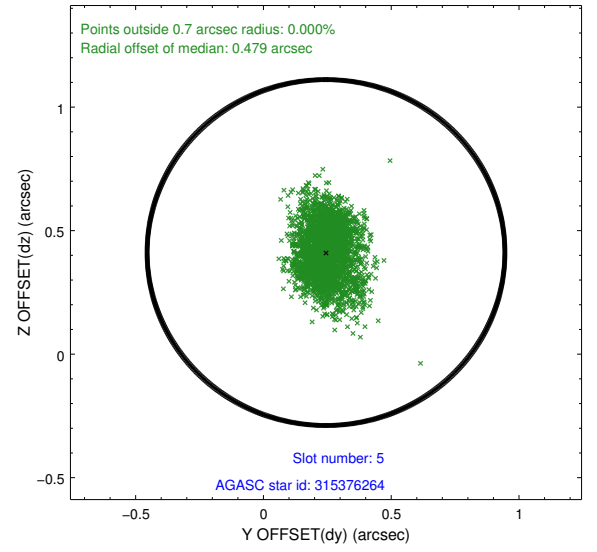
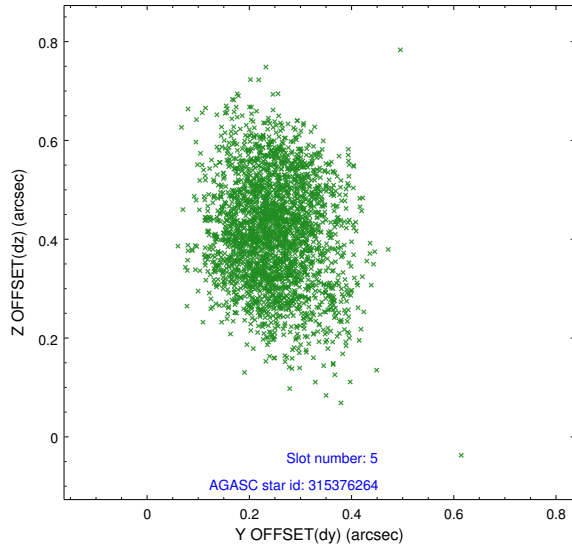
2.4.1 Slot 3



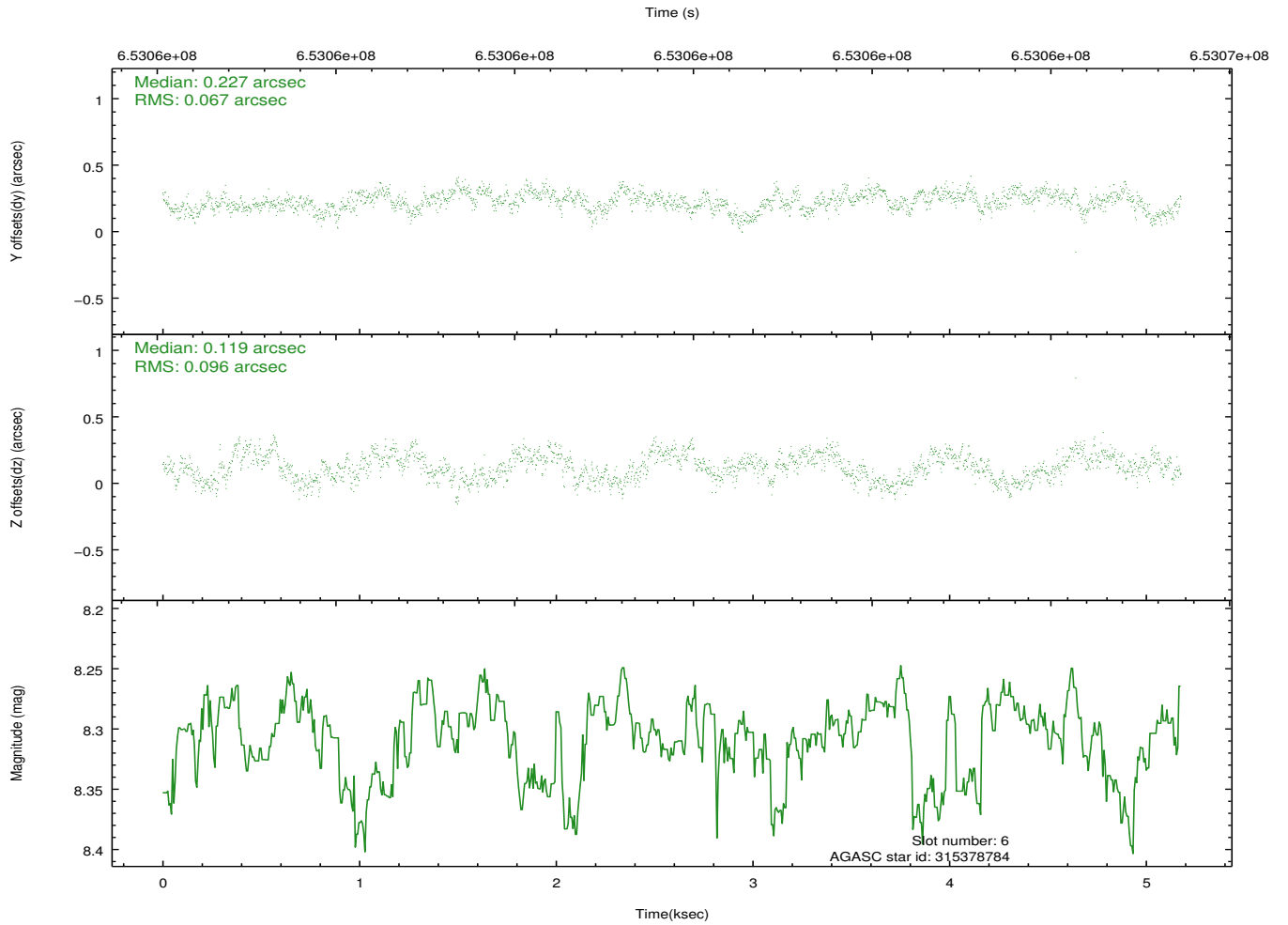
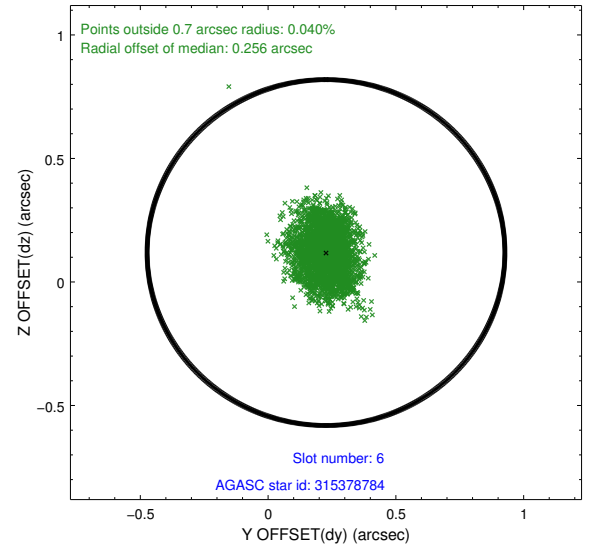
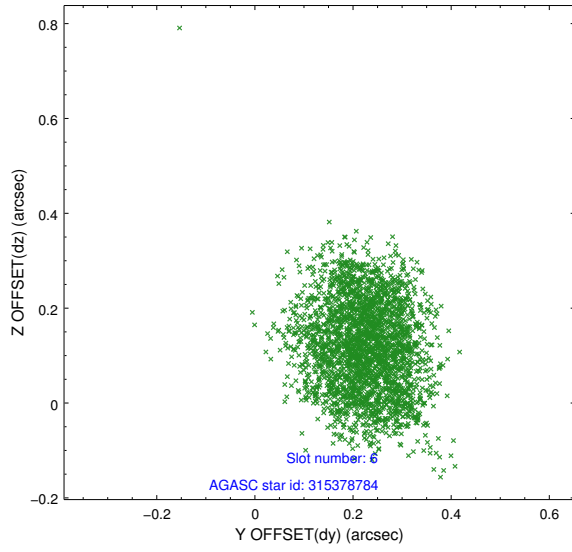
2.4.2 Slot 4



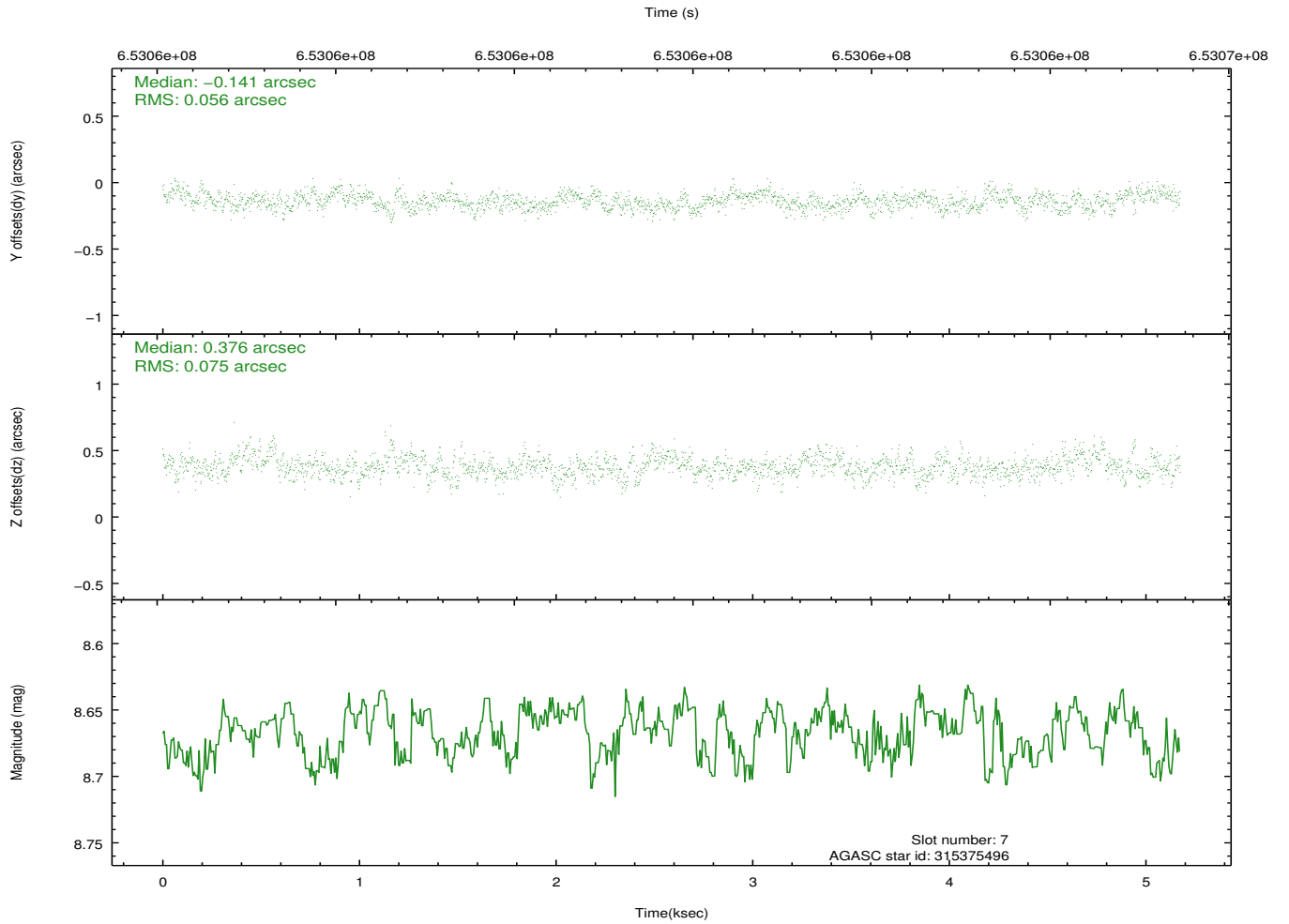
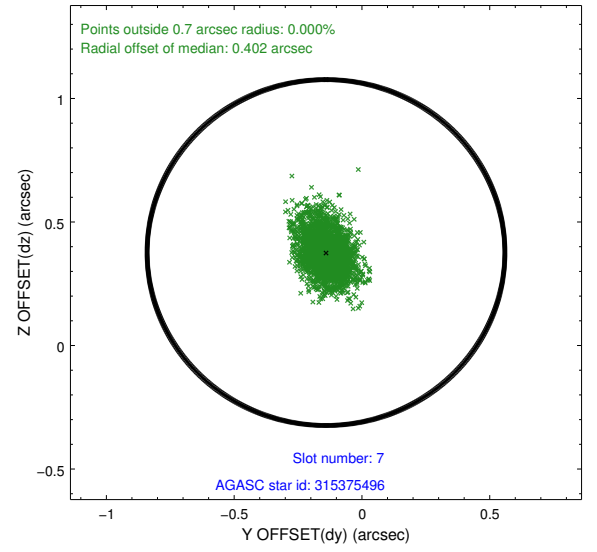
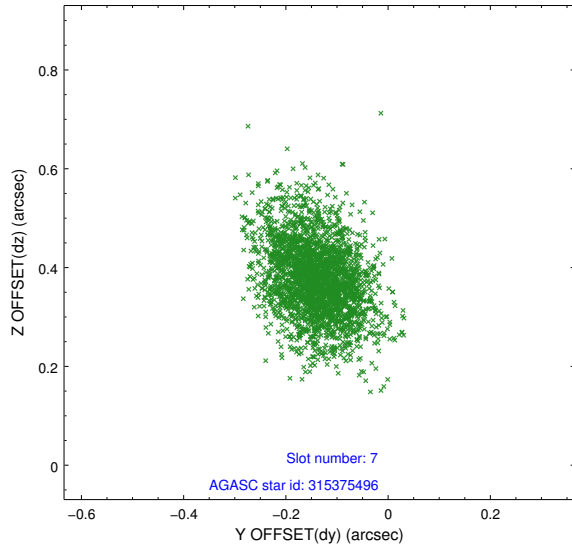
2.4.3 Slot 5



2.4.4 Slot 6

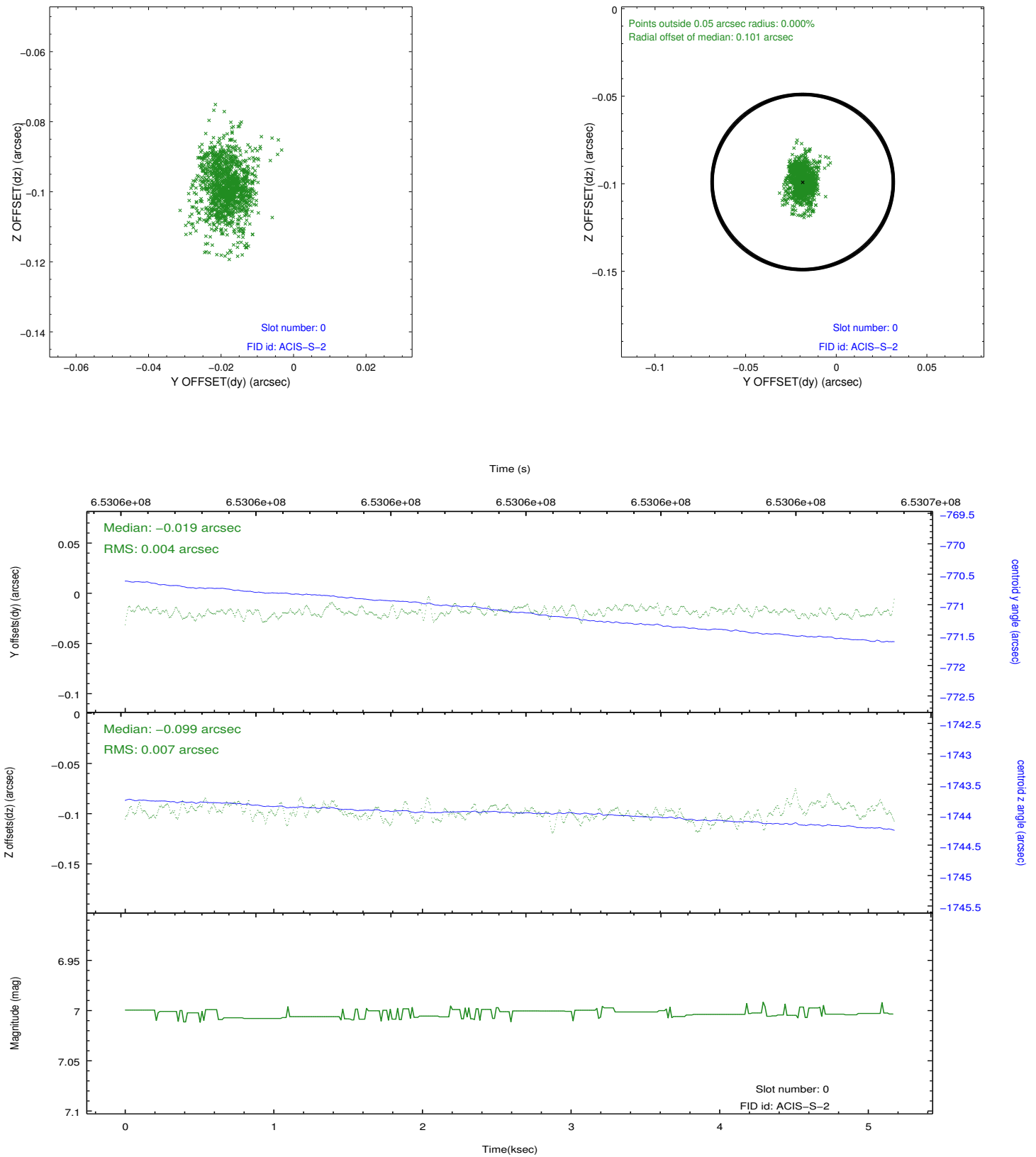


2.4.5 Slot 7

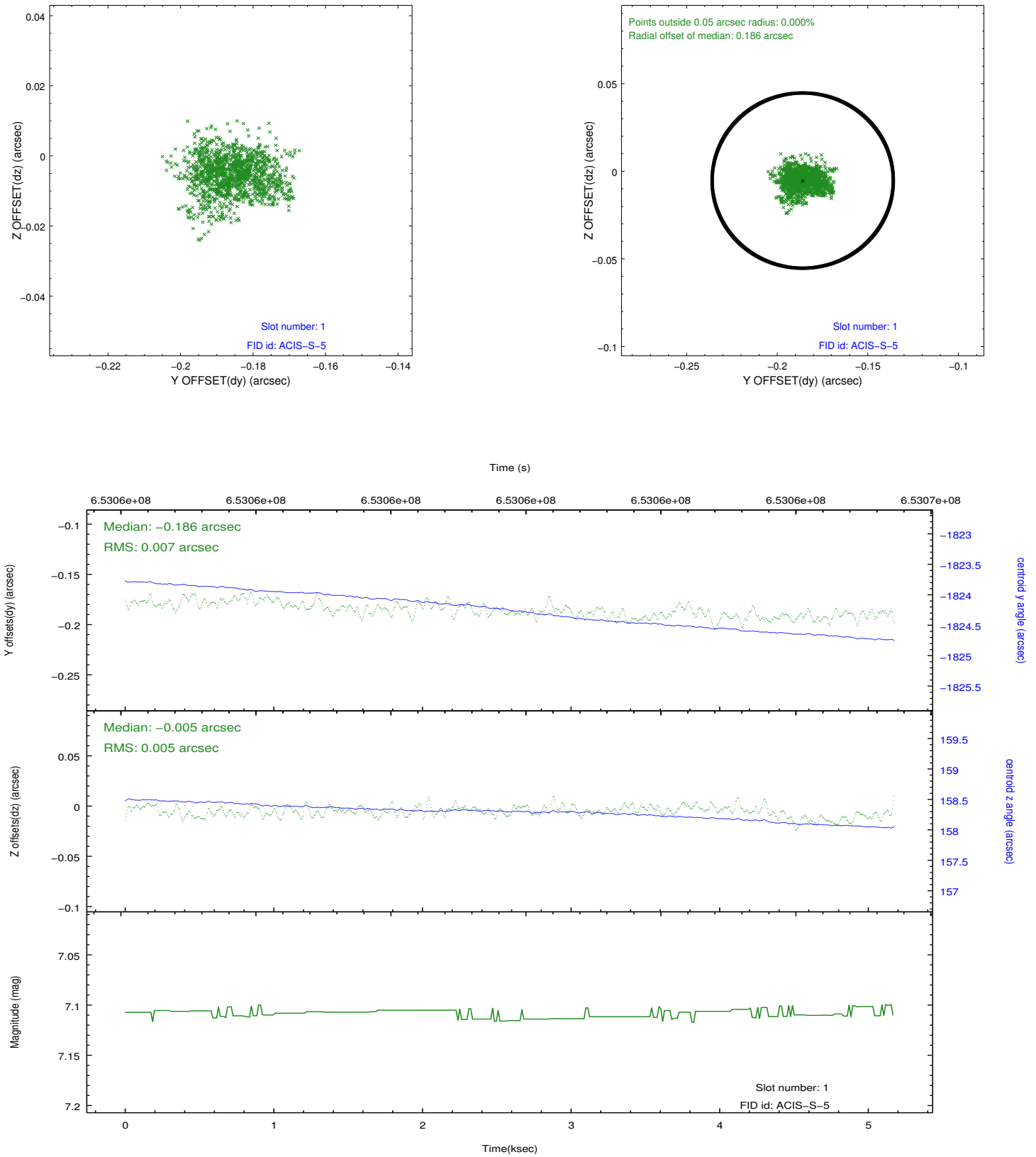


2.5 FID Slots

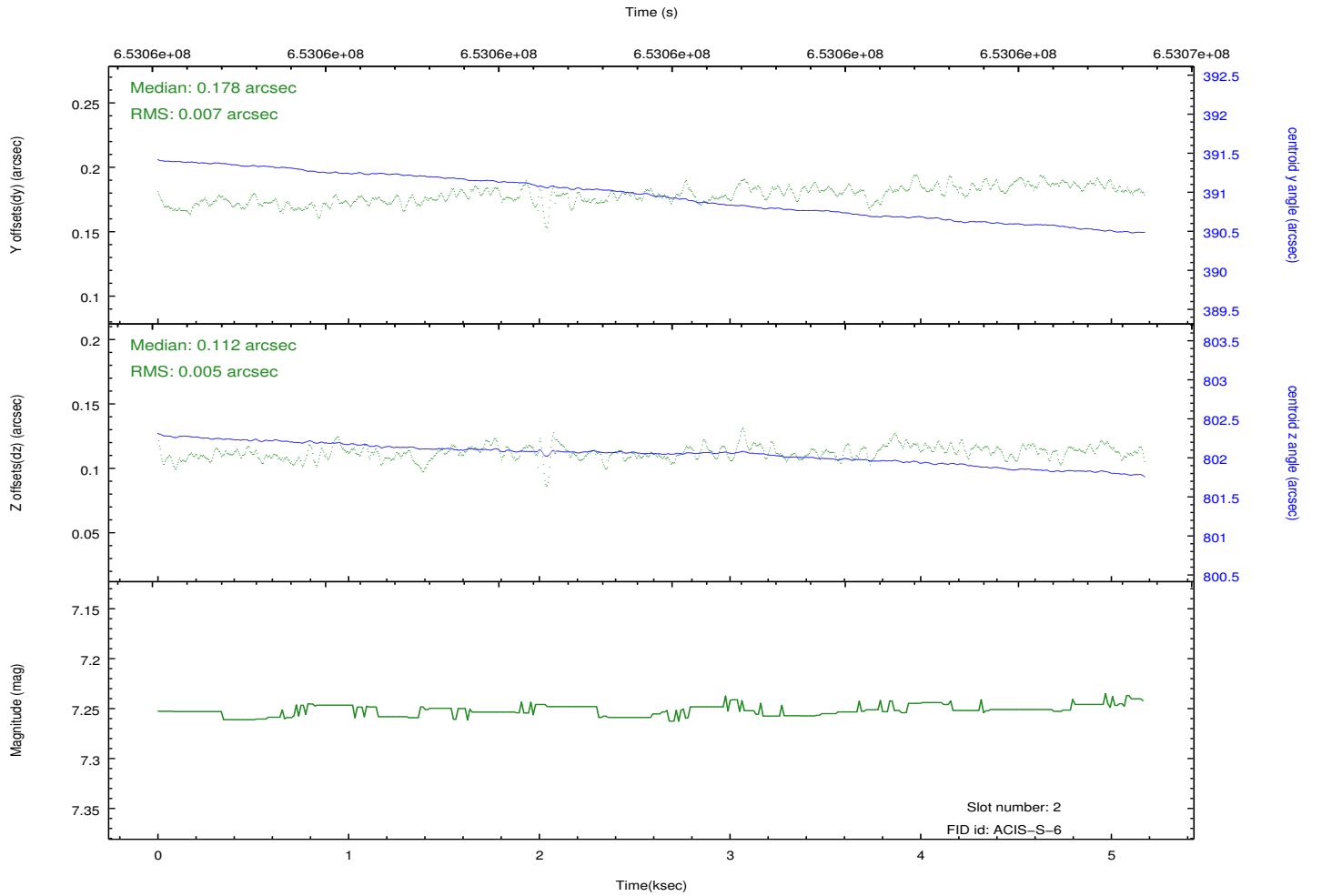
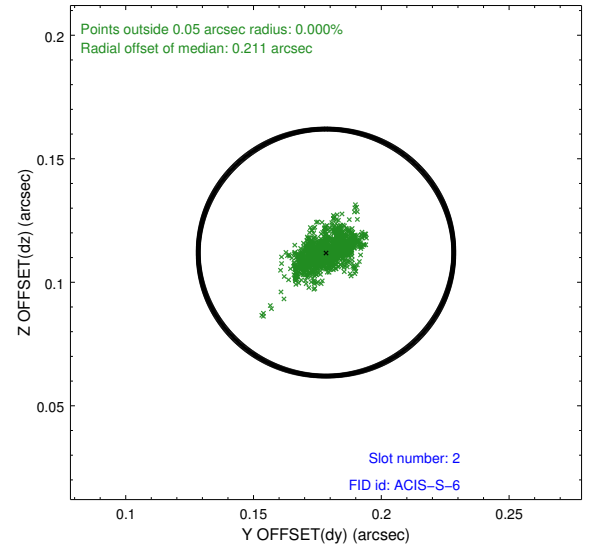
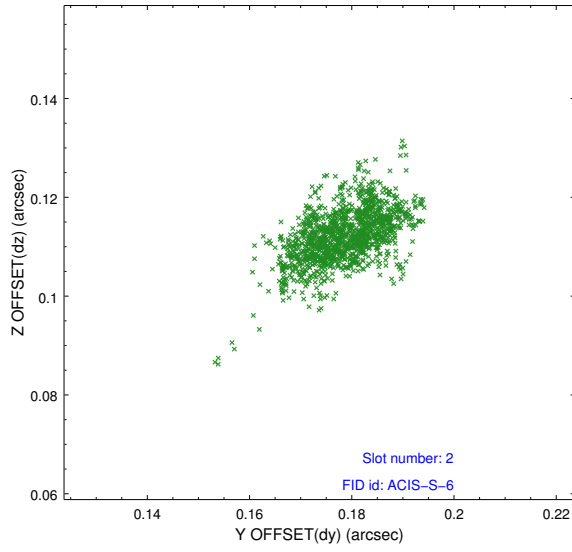
2.5.1 Slot 0



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	5.1739000399113

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.