

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21253 - L2 Version 1
Chandra X-Ray Center

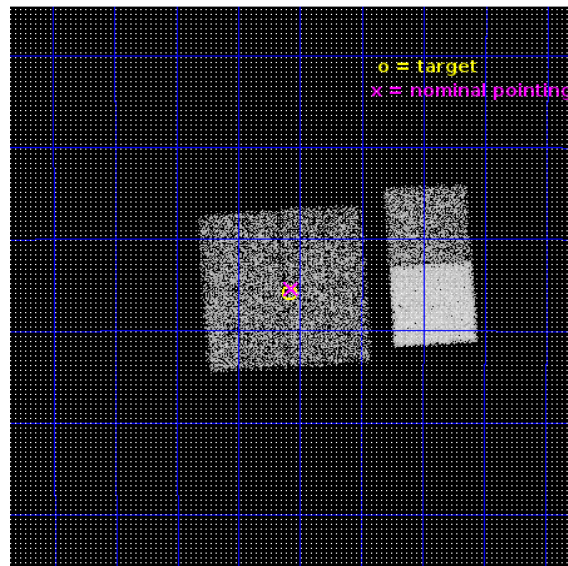
L2 Processing Date : May 14 2019

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1 Front

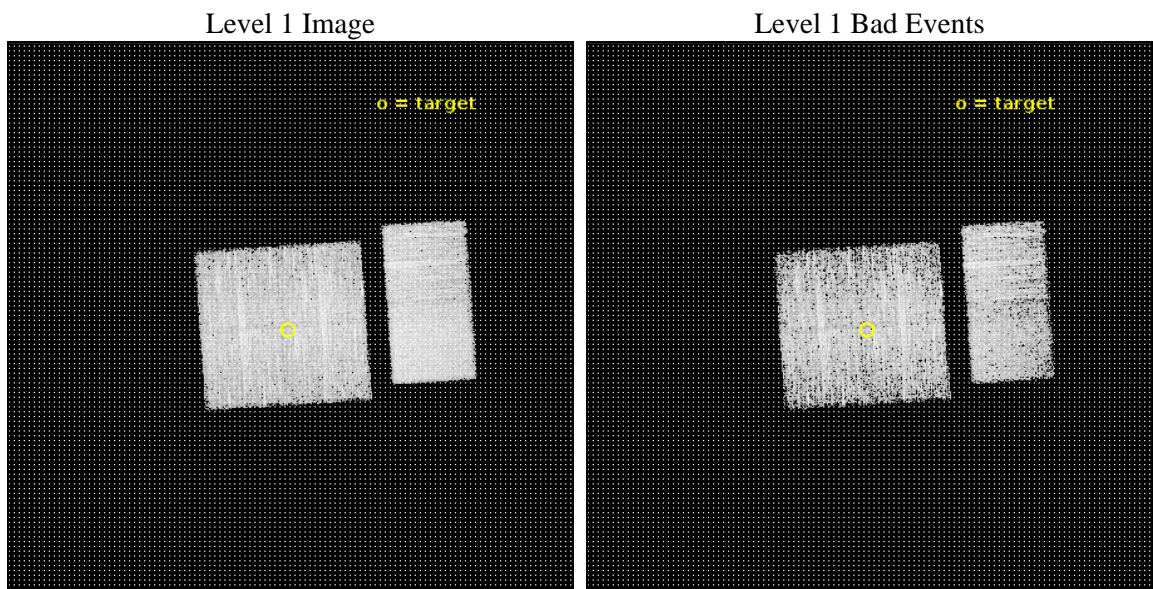
seq_num	402085	Sequence number
obs_id	21253	Observation id
title	The Nature of INTEGRAL Sources in the Galactic Plane	Proposal titl
observer	John Tomsick	Principal investigator
object	IGR J18010-3045	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	270.270833	Observer's specified target RA [deg]
dec_targ	-30.764	Observer's specified target Dec [deg]
ra_nom	270.26747920337	Nominal RA [deg]
dec_nom	-30.75727758698	Nominal Dec [deg]
roll_nom	86.206871786389	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4958.9330433607	Sum of GTIs [s]
livetime	4896.1400472547	Livetime [s]
ontime0	4958.8099234104	Sum of GTIs [s]
ontime1	4958.8509633541	Sum of GTIs [s]
ontime2	4958.892003417	Sum of GTIs [s]
ontime3	4958.9330433607	Sum of GTIs [s]
ontime6	4959.0151233673	Sum of GTIs [s]
ontime7	4958.9740834236	Sum of GTIs [s]
l2events	38104	Number of level 2 events



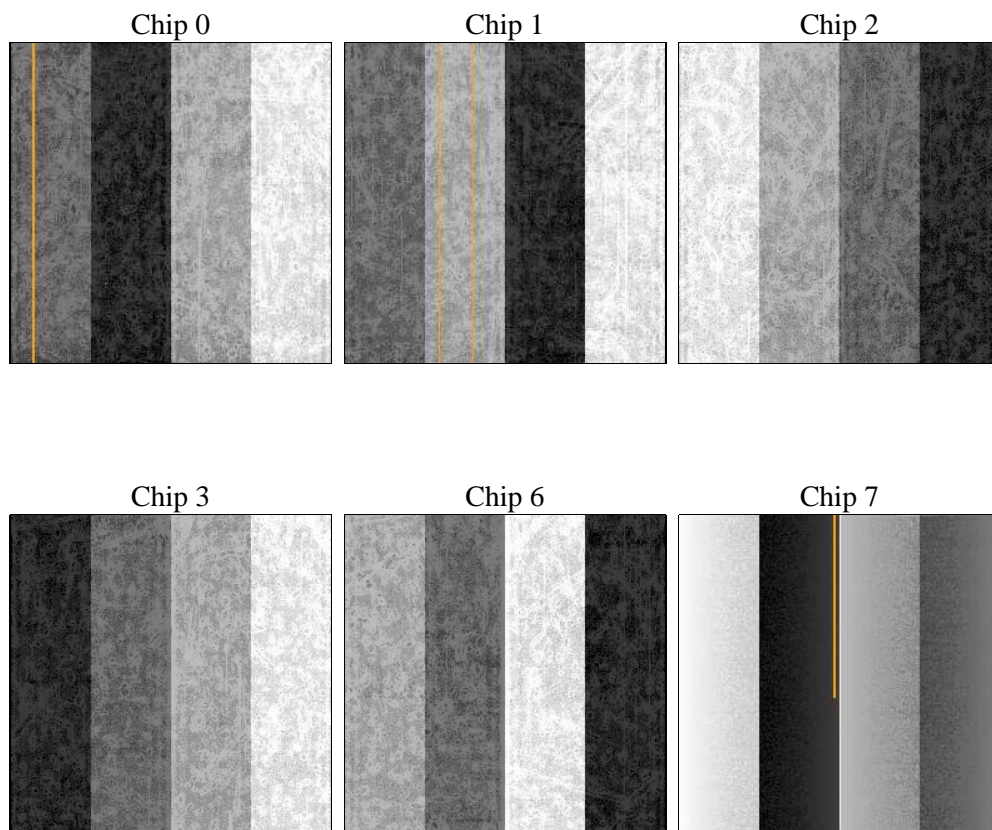
2 OBI

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	10.7.1	Processing system revision	ontime	4958.9330433607	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	4958.8099234104	Sum of GTIs [s]
date	2019-05-14T09:31:52	Date and time of file creation	ontime1	4958.8509633541	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4958.892003417	Sum of GTIs [s]
			ontime3	4958.9330433607	Sum of GTIs [s]
			ontime6	4959.0151233673	Sum of GTIs [s]
			ontime7	4958.9740834236	Sum of GTIs [s]
			l1events	216895	Number of level 1 events

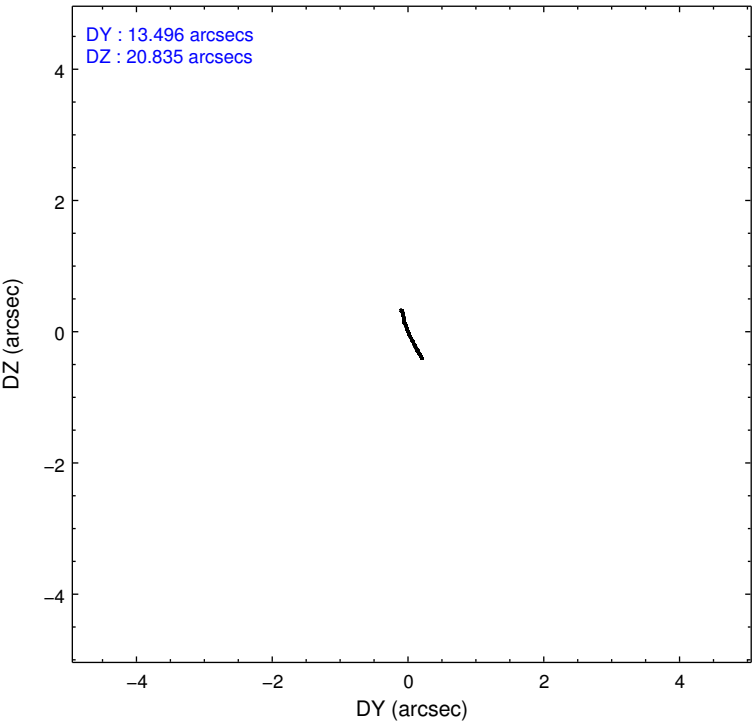
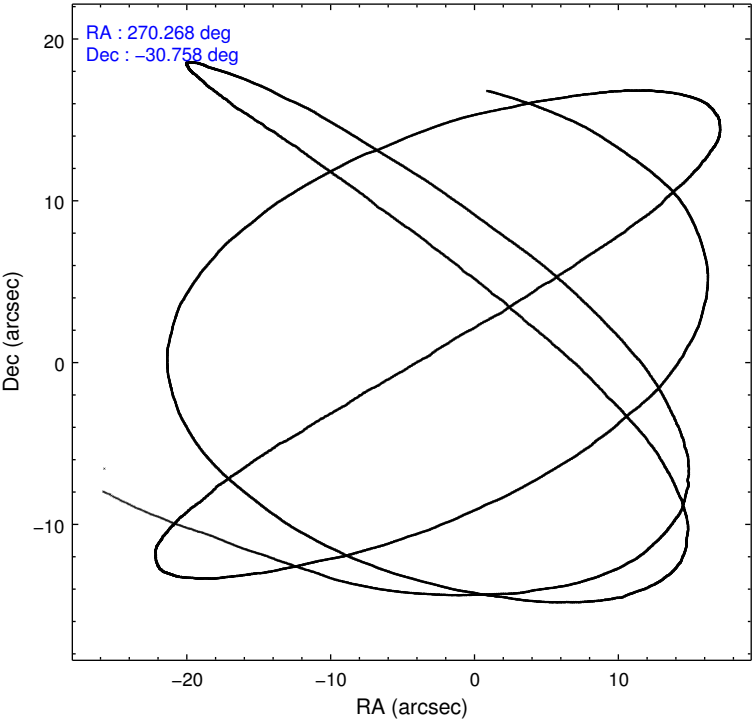
2.1.4 Events

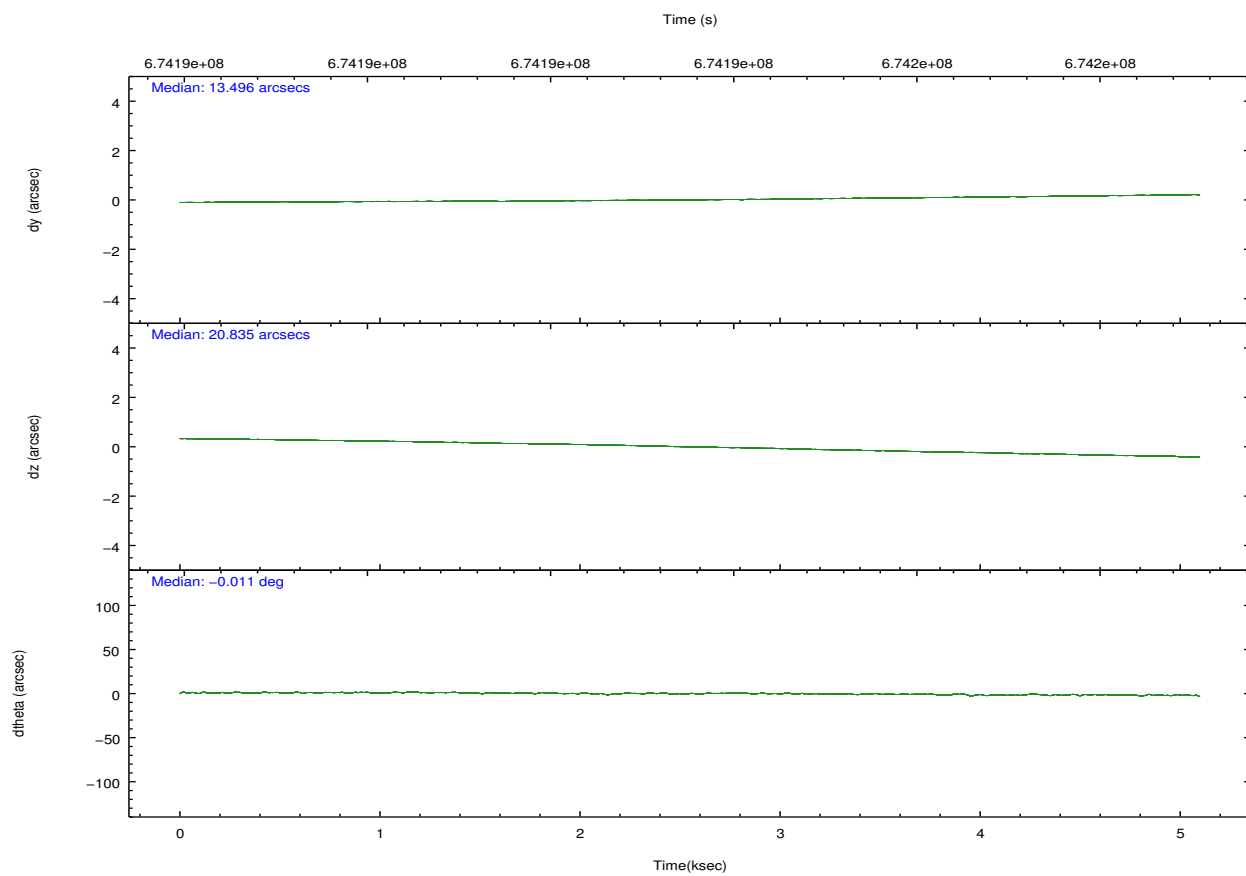
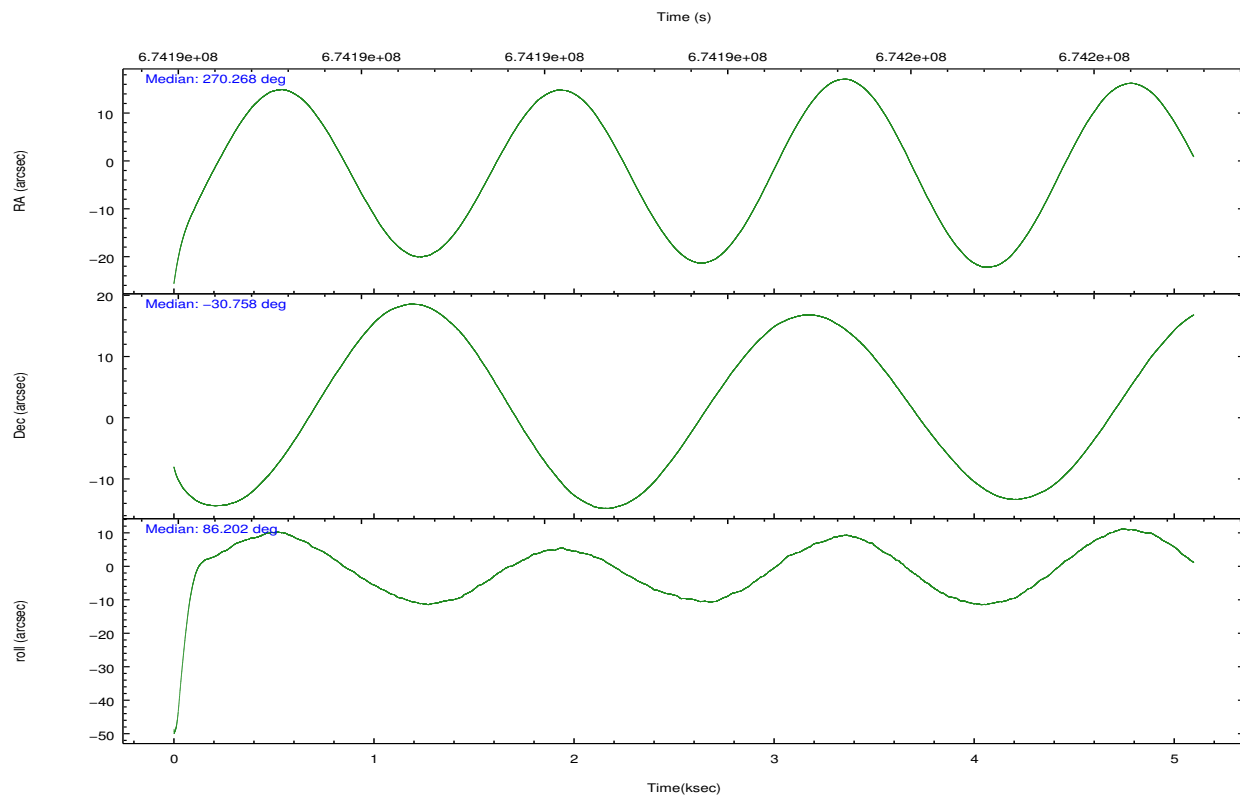
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	31193	32678	34491	33746	37957	46830	grade 0 events	1622	1661	1672	1562	1530	1856
rejected events	26810	28073	30198	29745	33557	26471		5%	5%	4%	4%	4%	3%
rejected %	85%	85%	87%	88%	88%	56%	grade 1 events	28	14	25	29	23	77
								0%	0%	0%	0%	0%	0%
							grade 2 events	1061	1178	1015	820	1061	4422
								3%	3%	2%	2%	2%	9%
							grade 3 events	420	407	403	420	403	1698
								1%	1%	1%	1%	1%	3%
							grade 4 events	384	430	387	367	414	1637
								1%	1%	1%	1%	1%	3%
							grade 5 events	1545	1615	1489	1669	1764	4708
								4%	4%	4%	4%	4%	10%
							grade 6 events	901	935	827	838	999	10770
								2%	2%	2%	2%	2%	22%
							grade 7 events	25232	26438	28673	28041	31763	21662
								80%	80%	83%	83%	83%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	270.281450	270.2674792033657	CCD I2 on	Y	Y
[deg] Pointing Dec	-30.781736	-30.75727758697989	CCD I3 on	Y	Y
[deg] Pointing Roll	86.005432	86.20687178638941	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	674191311.184000	674189973.57496	CCD S5 on	N	N
Observation start date	2019-05-14T03:20:42	2019-05-14T02:59:33	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	674196311.184000	674197015.32538	On-chip summing requested	N	N
Observation end date	2019-05-14T04:44:02	2019-05-14T04:56:55	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



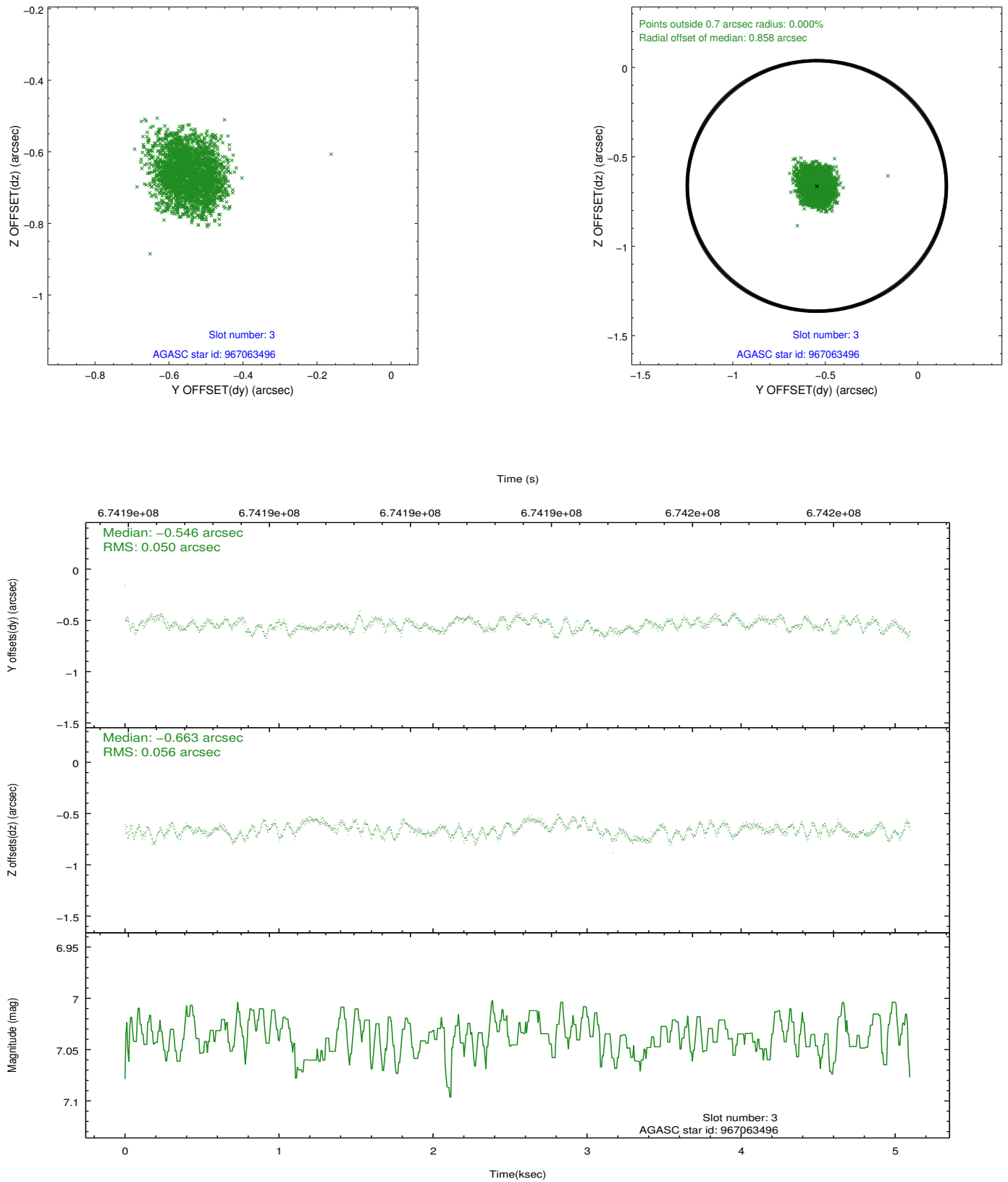


Slot Statistics

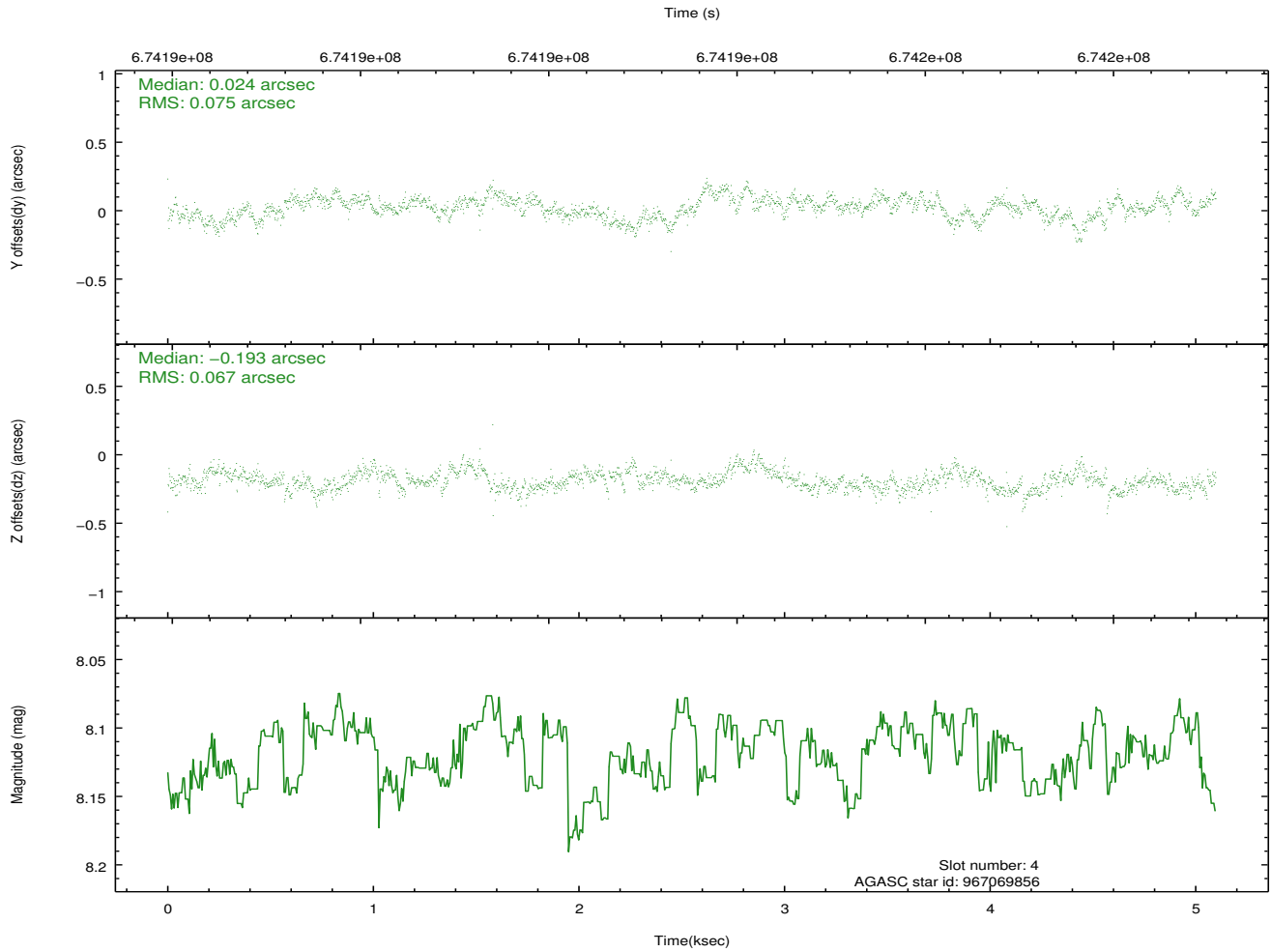
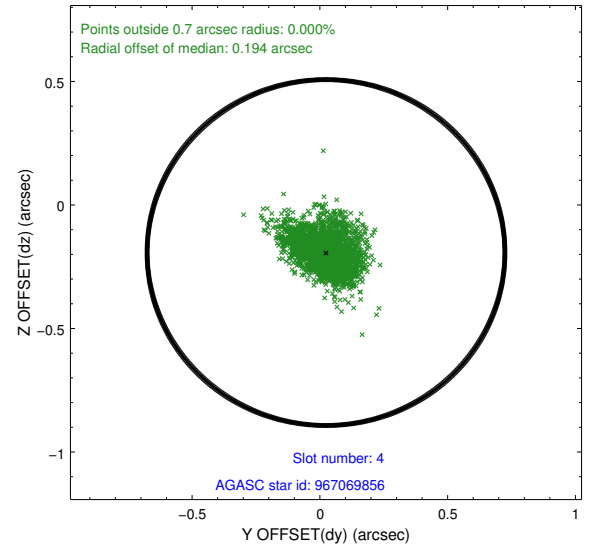
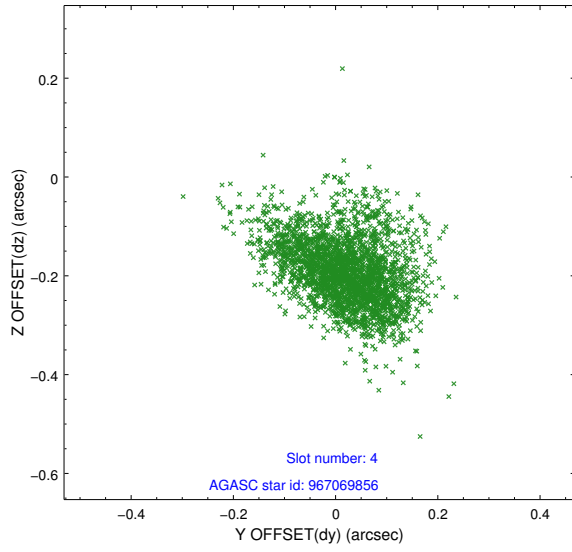
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.12	1244	1.000	0.198	-0.220	0.007	0.010	0.000000	0.000000	926.31	-844
1	FID		ACIS-I-3	7.36	1244	1.000	-0.059	0.183	0.011	0.018	0.000000	0.000000	44.23	-978
2	FID		ACIS-I-5	7.10	1244	1.000	-0.230	0.110	0.009	0.016	0.000000	0.000000	-1822.56	1052
3	GUIDE	used	967063496	7.04	2488	1.000	-0.546	-0.663	0.081	0.123	269.958012	-30.322954	1576.89	1118
4	GUIDE	used	967069856	8.12	2487	1.000	0.024	-0.193	0.105	0.175	269.688559	-31.132419	-1389.88	1735
5	GUIDE	used	968761928	8.20	2485	1.000	0.082	0.315	0.111	0.182	270.774952	-30.782909	99.63	-1520
6	GUIDE	used	968762272	8.60	2488	1.000	0.164	0.011	0.100	0.166	270.151973	-31.092440	-1142.47	320
7	GUIDE	used	968773568	8.43	2482	1.000	0.286	0.532	0.099	0.161	270.744506	-30.967336	-568.60	-1470

2.4 Star Slots

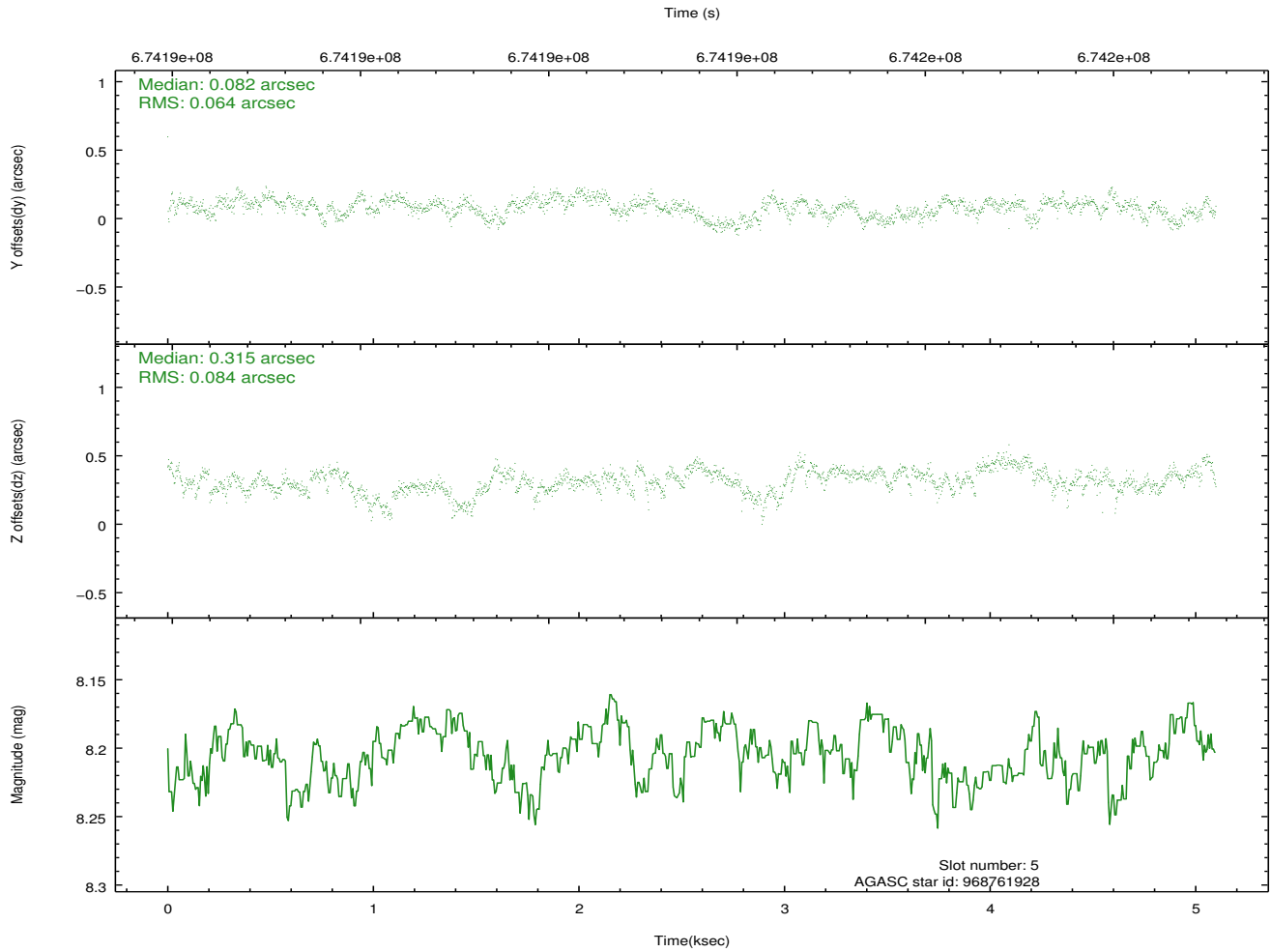
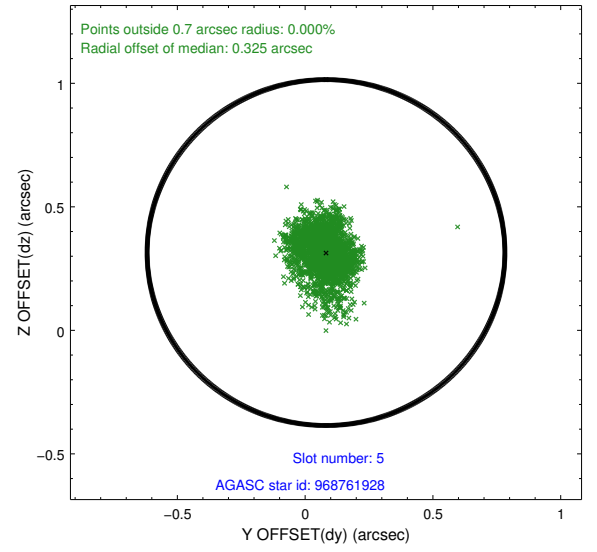
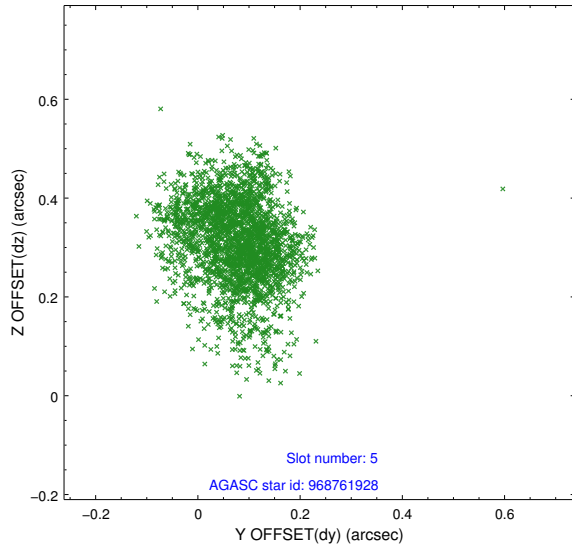
2.4.1 Slot 3



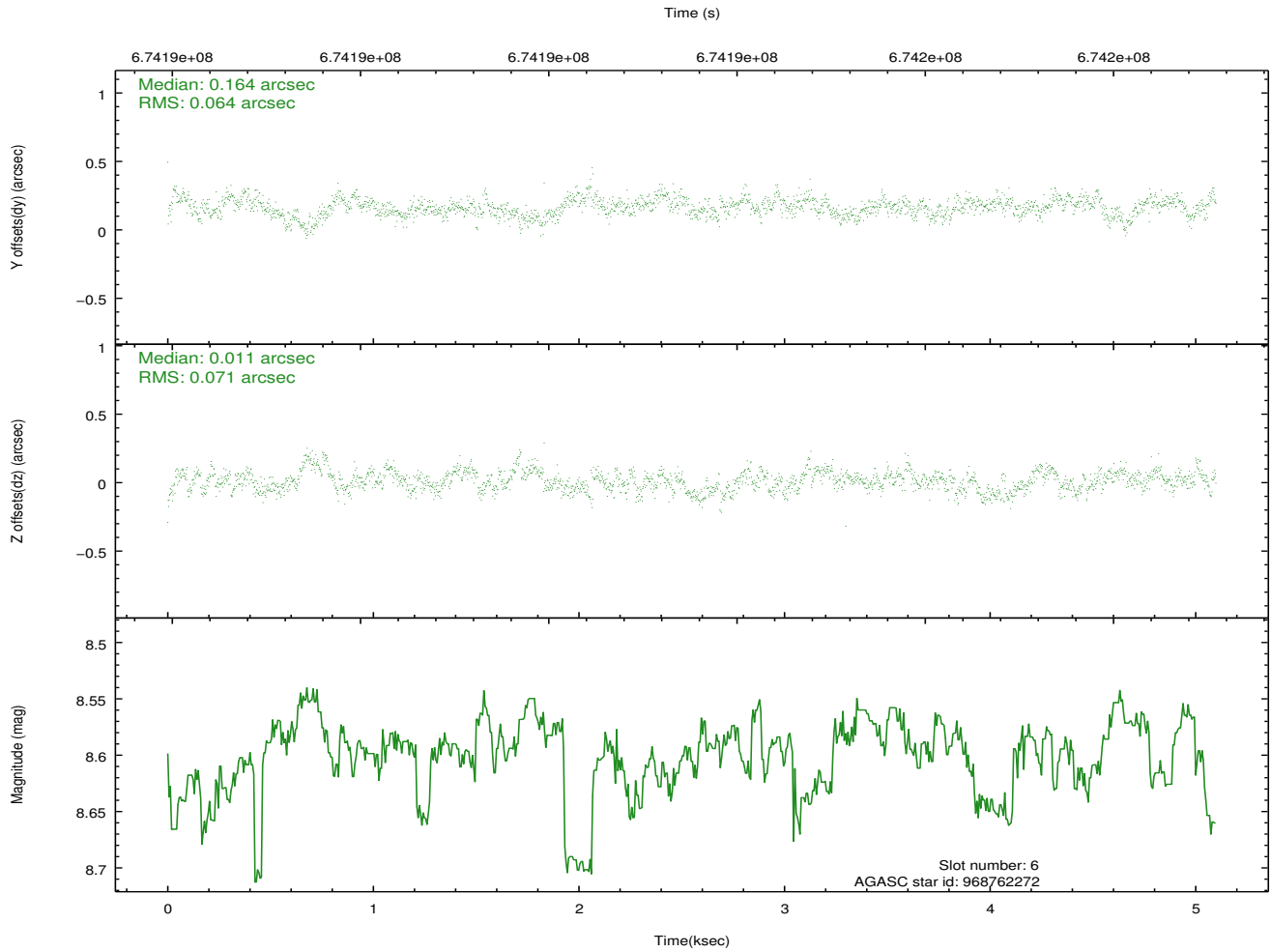
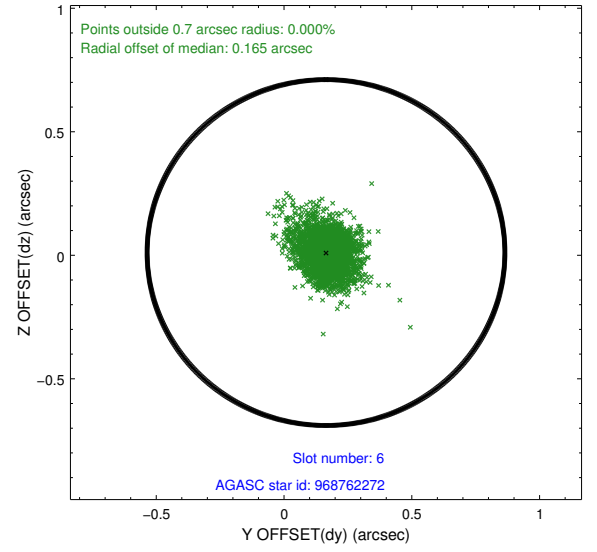
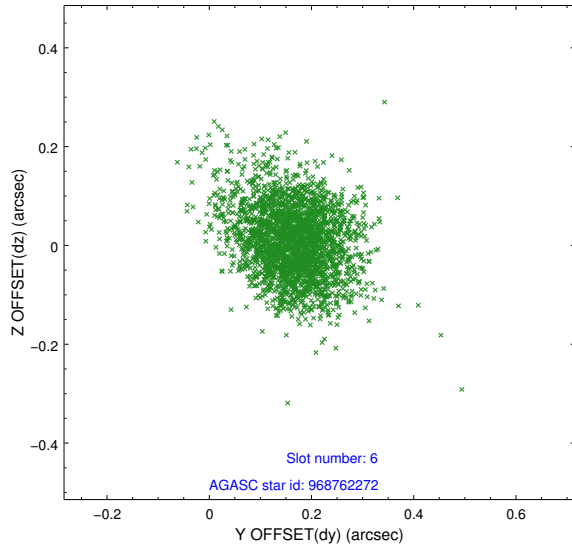
2.4.2 Slot 4



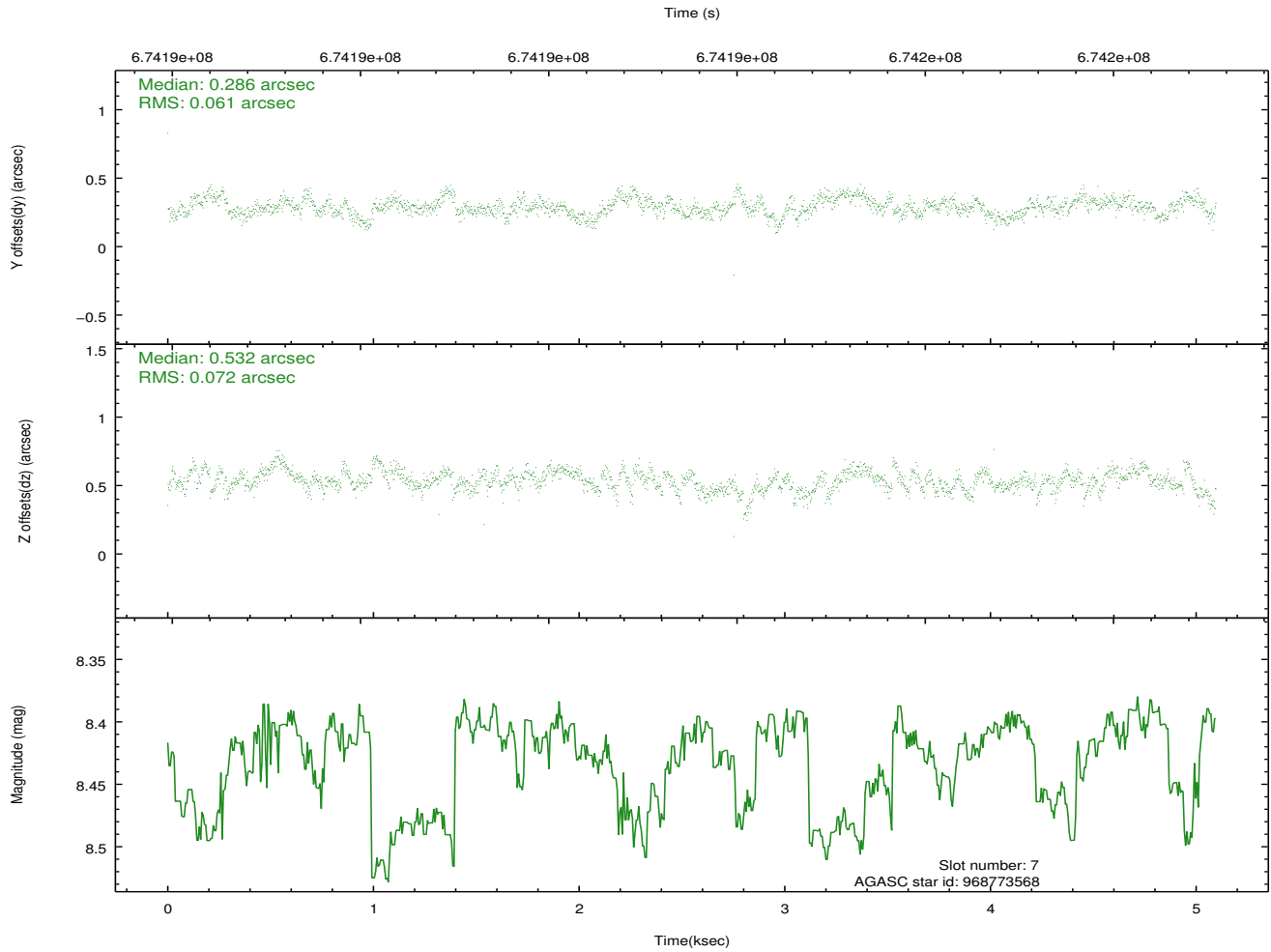
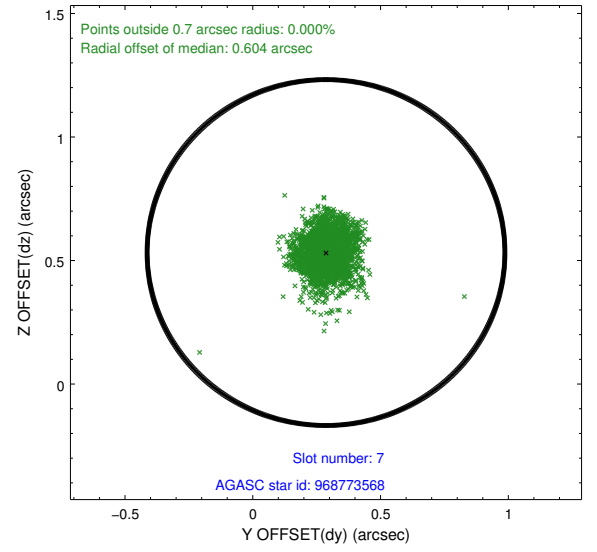
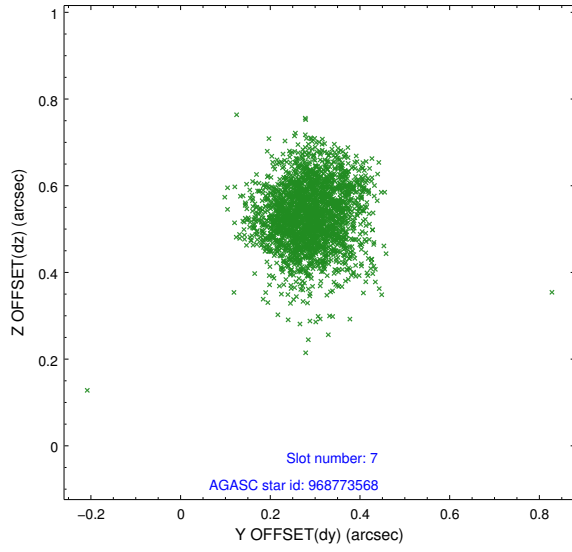
2.4.3 Slot 5



2.4.4 Slot 6

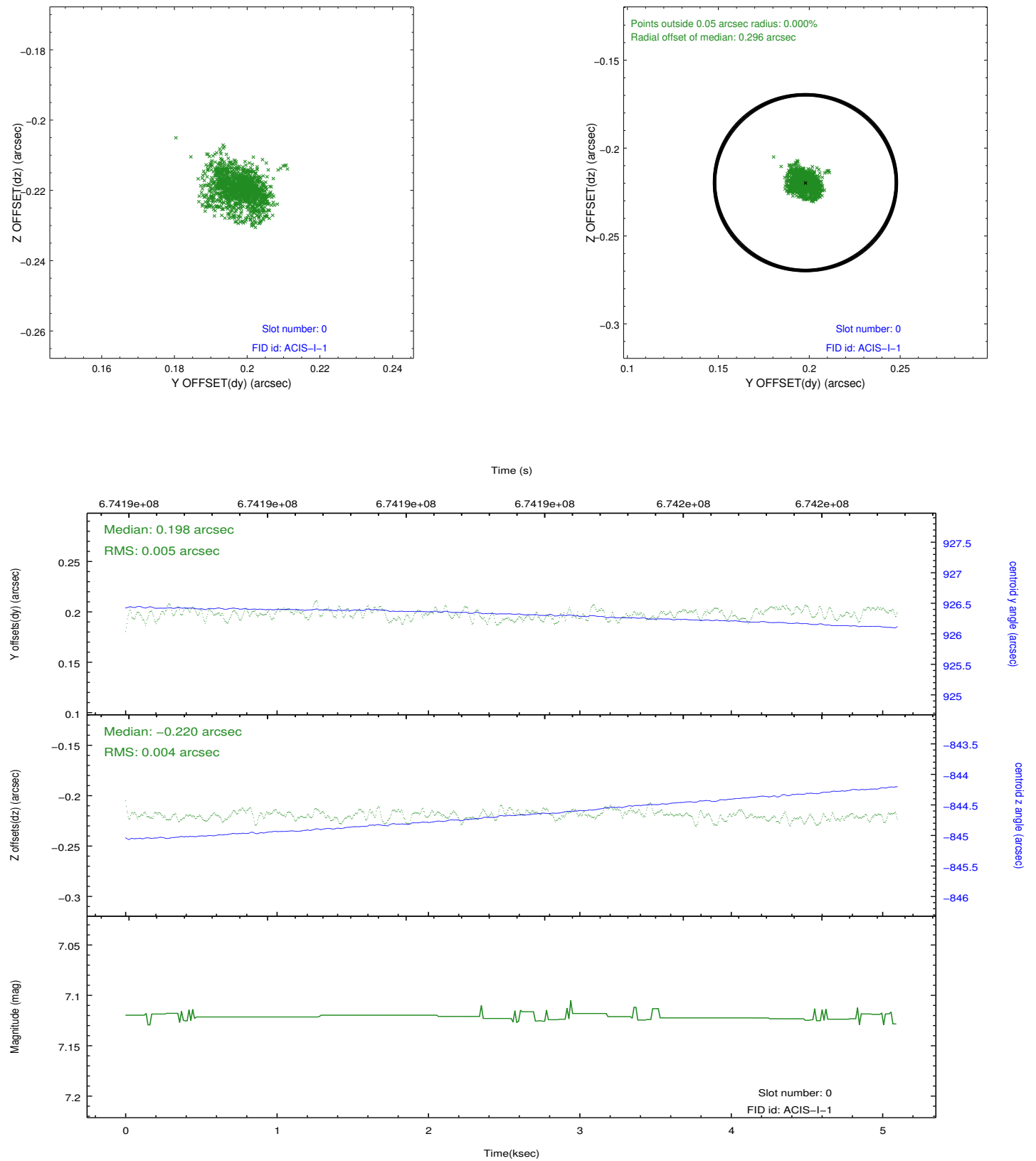


2.4.5 Slot 7

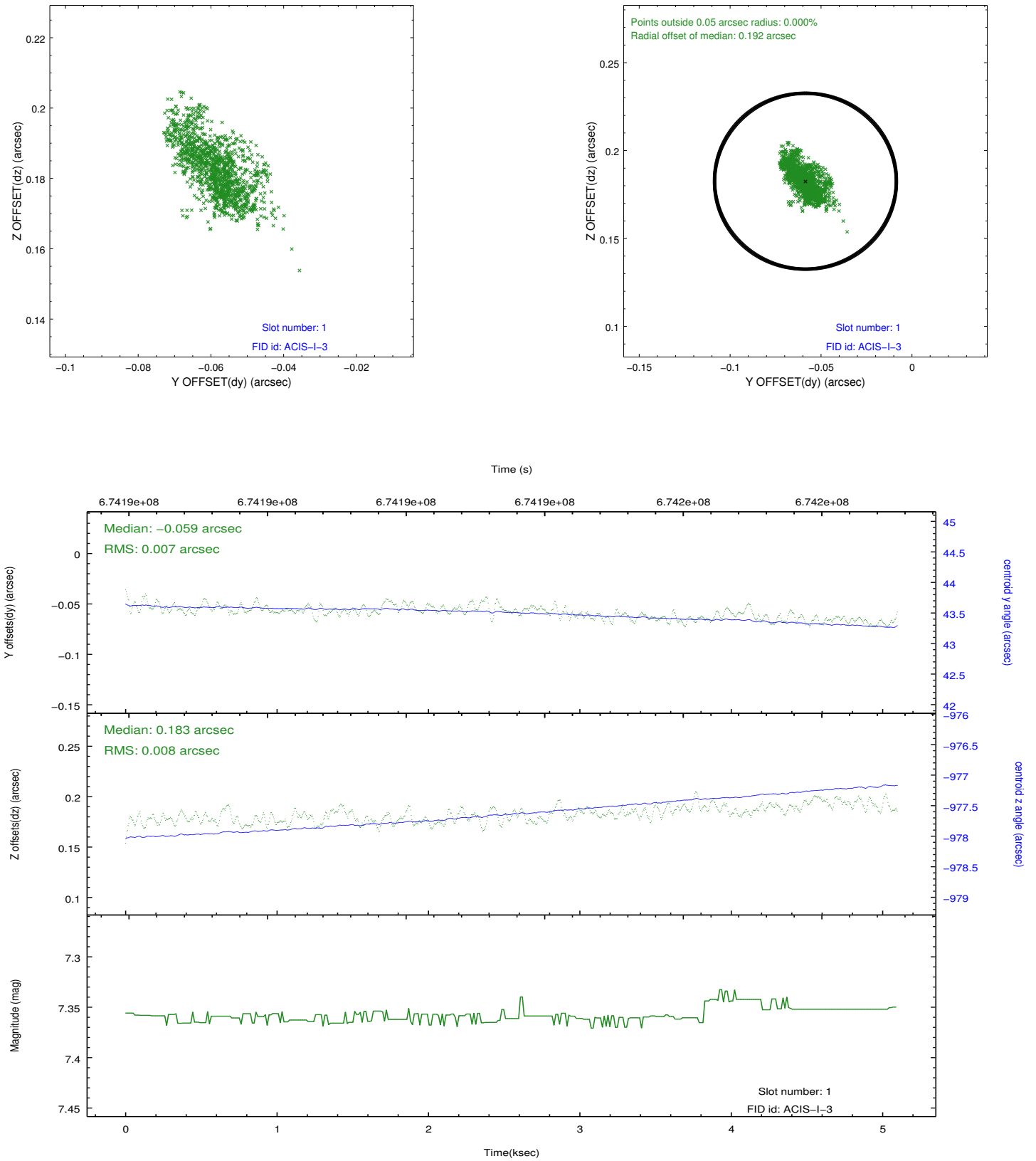


2.5 FID Slots

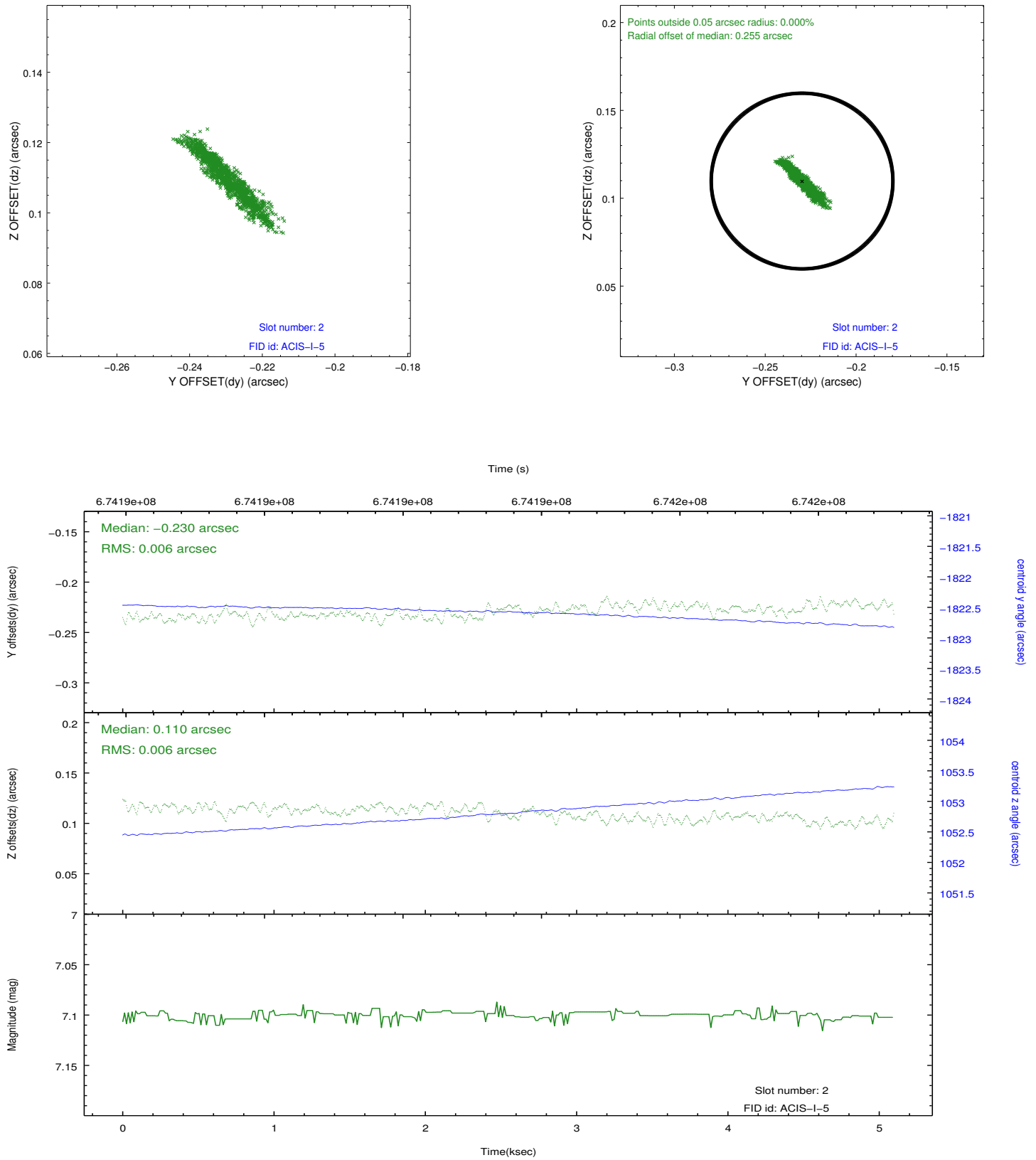
2.5.1 Slot 0



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)	2019.05.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9589330433607

A.2 Comments