

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 19631 - L2 Version 1
Chandra X-Ray Center

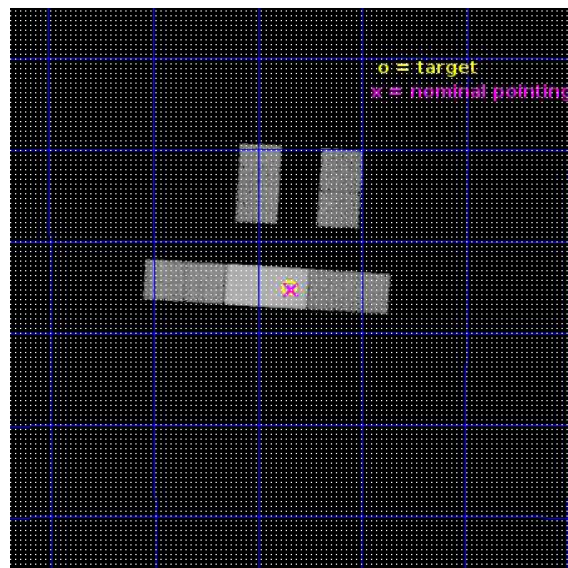
L2 Processing Date : Apr 19 2019

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1 Front

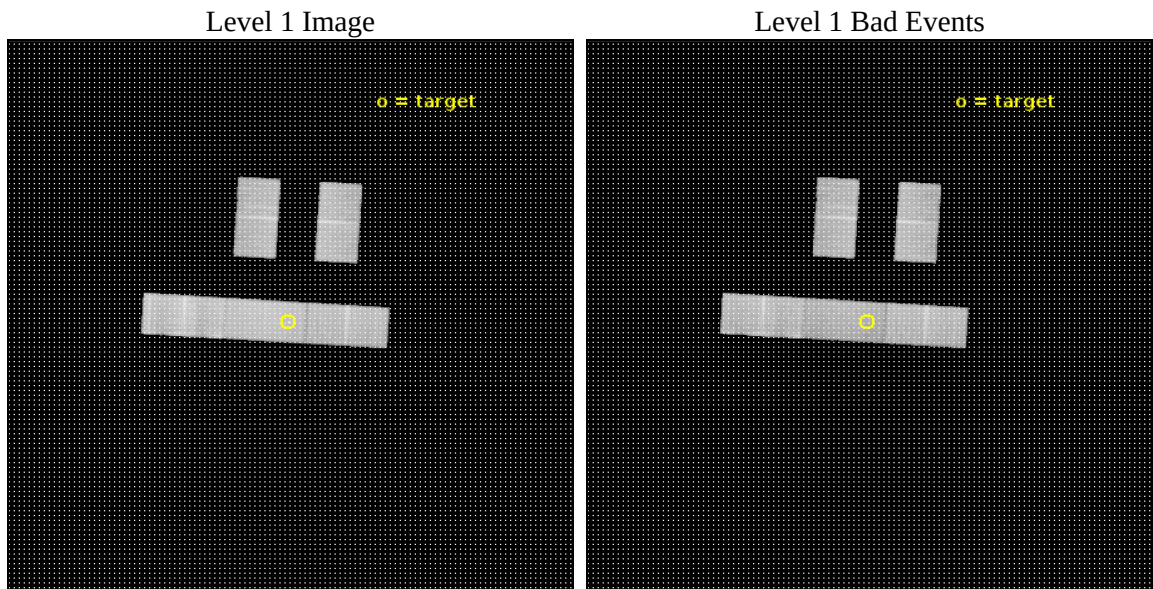
seq_num	703428	Sequence number
obs_id	19631	Observation id
title	MEASURING THE INNERMOST STABLE ORBIT USING MICROLENSING OF THE FE K LINE	Proposal title
observer	George Chartas	Principal investigator
object	QJ0158-4325	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	29.6725	Observer's specified target RA [deg]
dec_targ	-43.417833	Observer's specified target Dec [deg]
ra_nom	29.669581393995	Nominal RA [deg]
dec_nom	-43.421744341903	Nominal Dec [deg]
roll_nom	183.54225449174	Nominal Roll [deg]
revision	1	Processing version of data
ontime	33058.200927258	Sum of GTIs [s]
livetime	32278.94912026	Livetime [s]
ontime2	33058.200927258	Sum of GTIs [s]
ontime3	33058.200927258	Sum of GTIs [s]
ontime6	33056.459907055	Sum of GTIs [s]
ontime7	33058.200927258	Sum of GTIs [s]
ontime8	33058.200927258	Sum of GTIs [s]
l2events	129300	Number of level 2 events



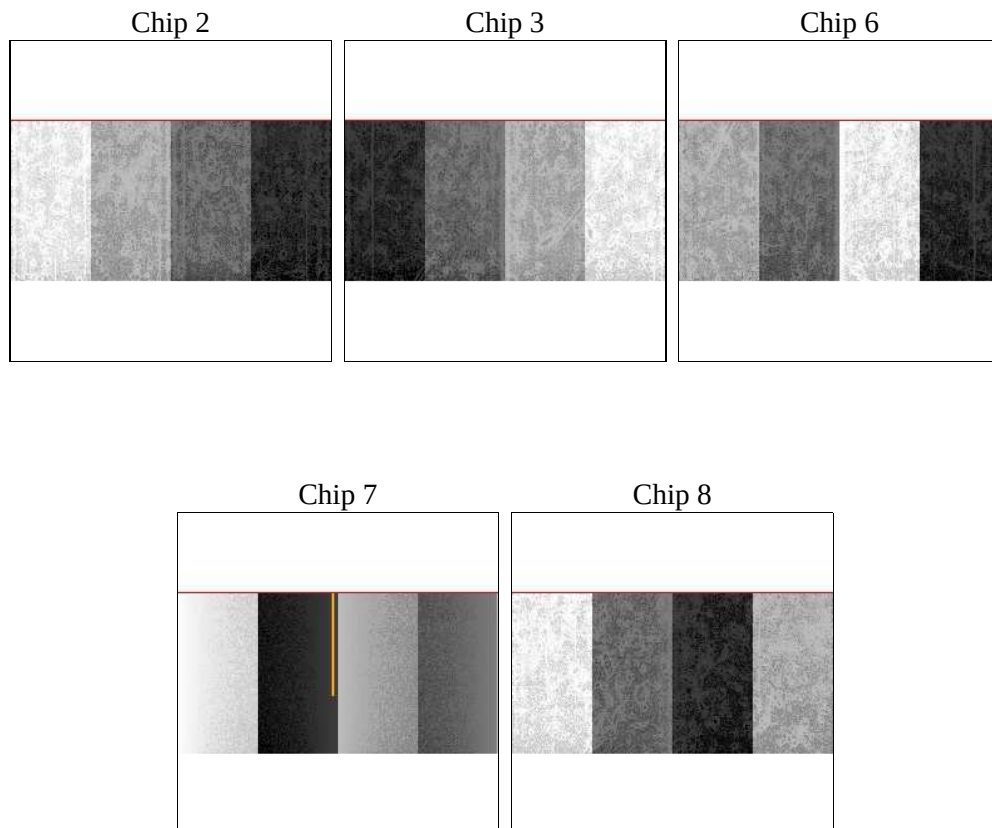
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	33000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	33058.200927258	Sum of GTIs [s]
caldsver	4.8.2	 	ontime2	33058.200927258	Sum of GTIs [s]
date	2019-04-20T01:23:01	Date and time of file creation	ontime3	33058.200927258	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	33056.459907055	Sum of GTIs [s]
			ontime7	33058.200927258	Sum of GTIs [s]
			ontime8	33058.200927258	Sum of GTIs [s]
			l1events	759527	Number of level 1 events

2.1.4 Events

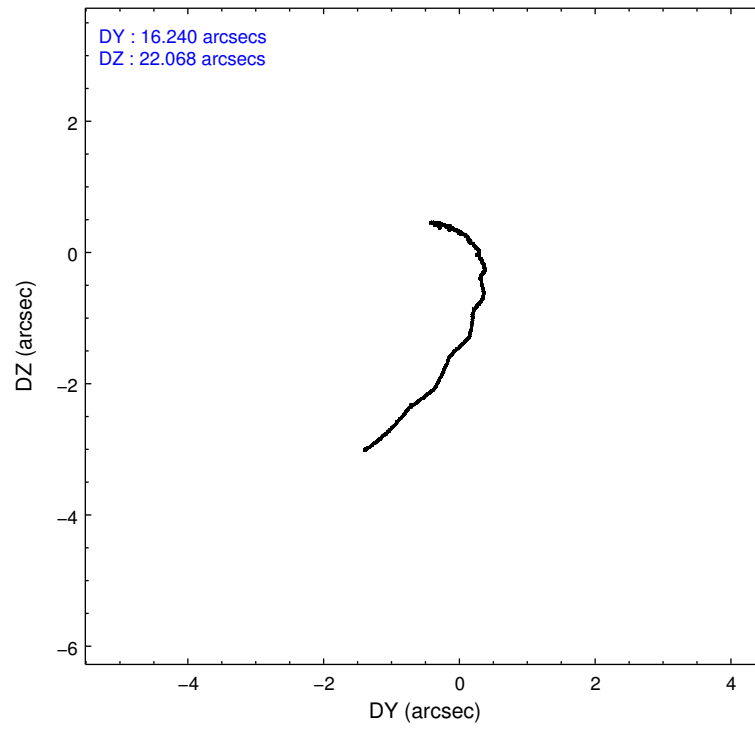
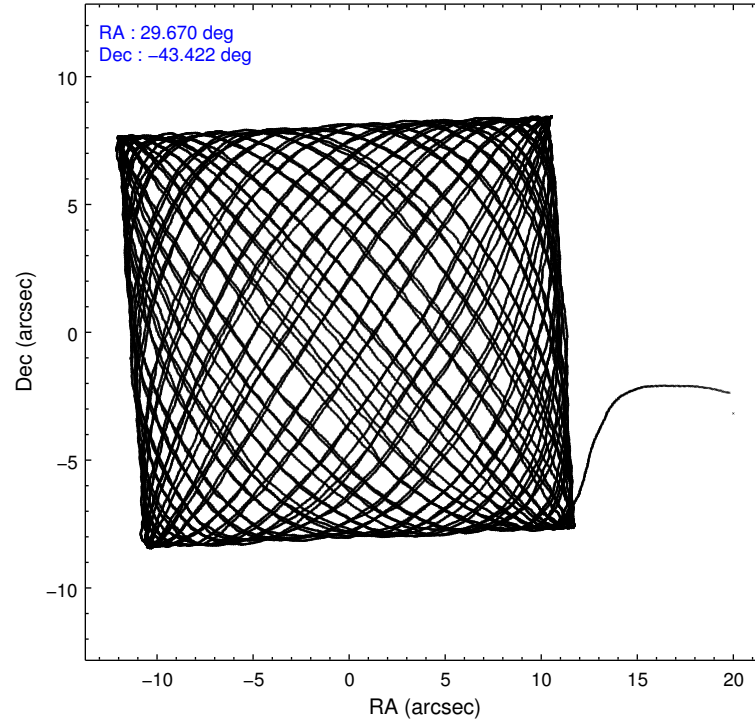
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	135358	129268	140420	170756	183725
rejected events	120726	114552	124801	93968	133353
rejected %	89%	88%	88%	55%	72%

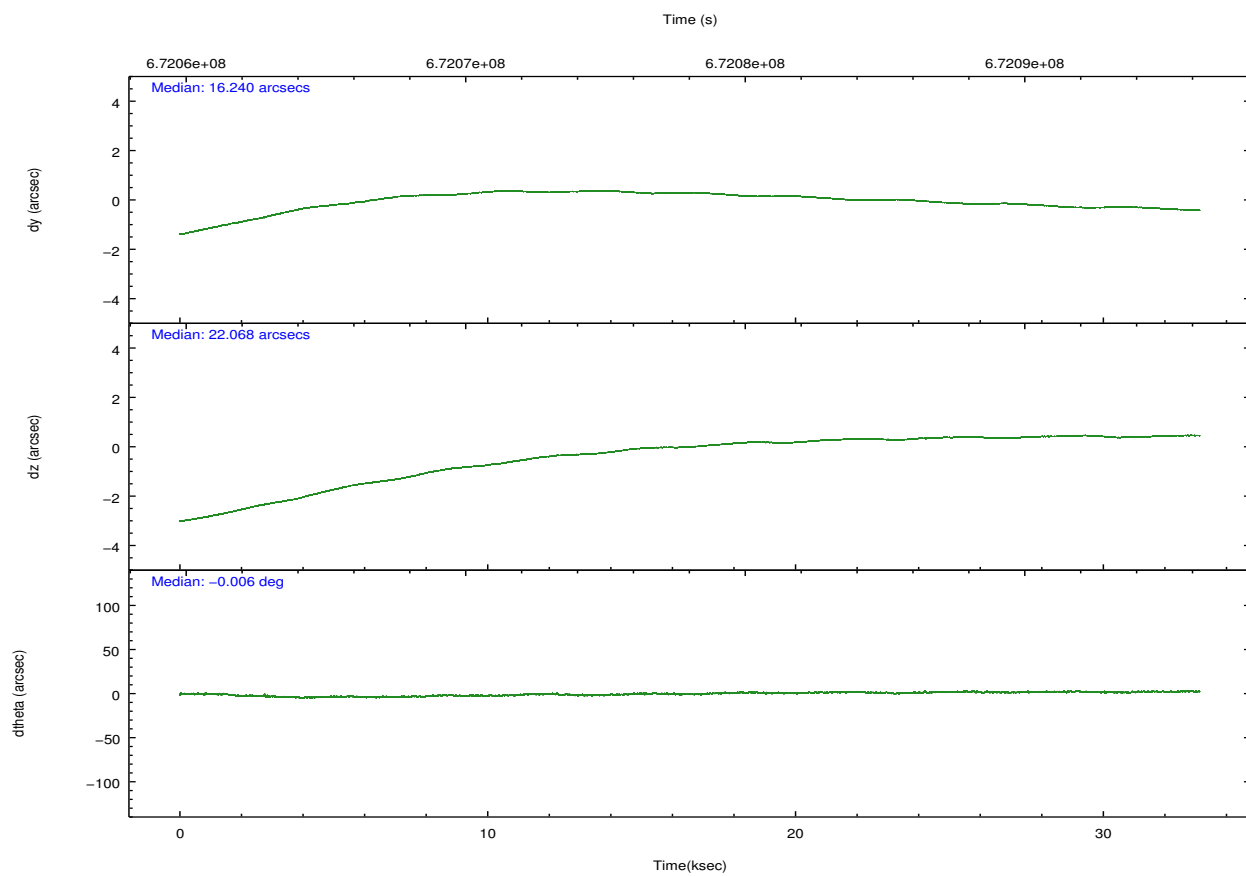
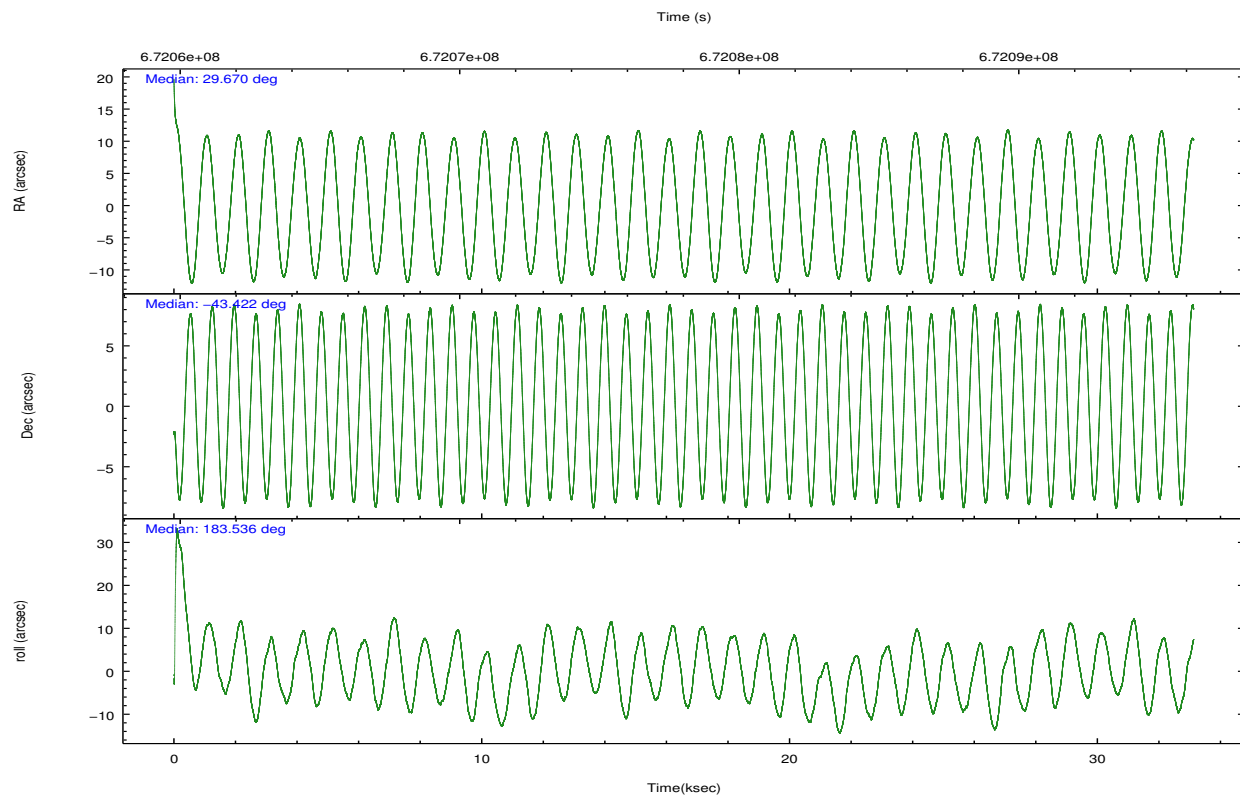
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	4845	5274	4885	7325	14016
	3%	4%	3%	4%	7%
grade 1 events	51	60	59	257	99
	0%	0%	0%	0%	0%
grade 2 events	3488	3091	3561	16477	11950
	2%	2%	2%	9%	6%
grade 3 events	1707	1751	1845	7240	4924
	1%	1%	1%	4%	2%
grade 4 events	1784	1670	1848	7019	4768
	1%	1%	1%	4%	2%
grade 5 events	5024	6059	6195	17410	9224
	3%	4%	4%	10%	5%
grade 6 events	2810	2932	3480	38737	14718
	2%	2%	2%	22%	8%
grade 7 events	115649	108431	118547	76291	124026
	85%	83%	84%	44%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	29.700777	29.66958139399492	CCD I2 on	O1	Y
[deg] Pointing Dec	-43.406265	-43.42174434190275	CCD I3 on	O2	Y
[deg] Pointing Roll	183.407085	183.5422544917434	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	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	O3	Y
[s] Observation start time (MET)	672061572.184000	672060382.70988	CCD S5 on	N	N
Observation start date	2019-04-19T11:45:03	2019-04-19T11:26:22	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	672094572.184000	672095519.71198	On-chip summing requested	N	N
Observation end date	2019-04-19T20:55:03	2019-04-19T21:11:59	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.7

2.3 Aspect



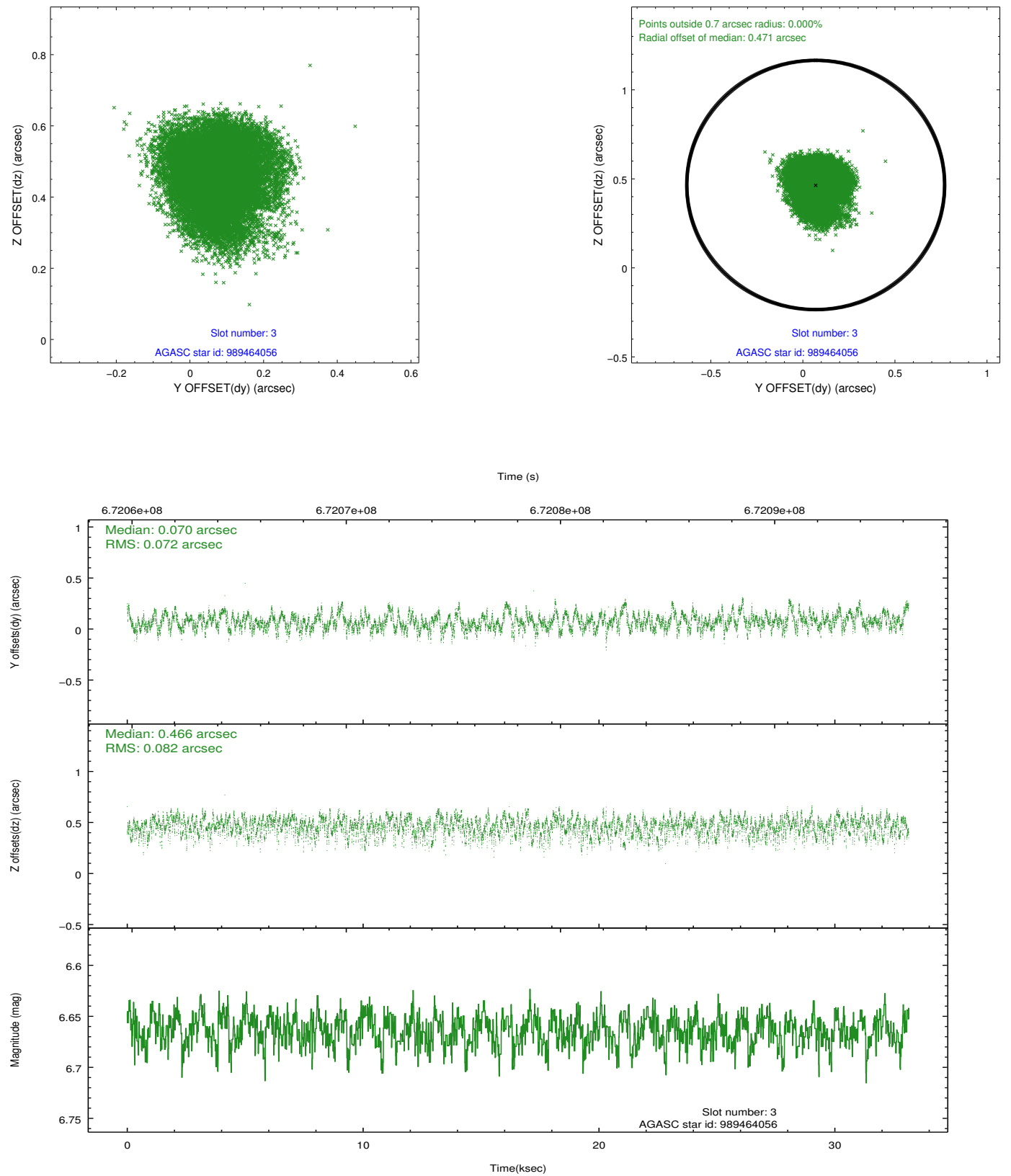


Slot Statistics

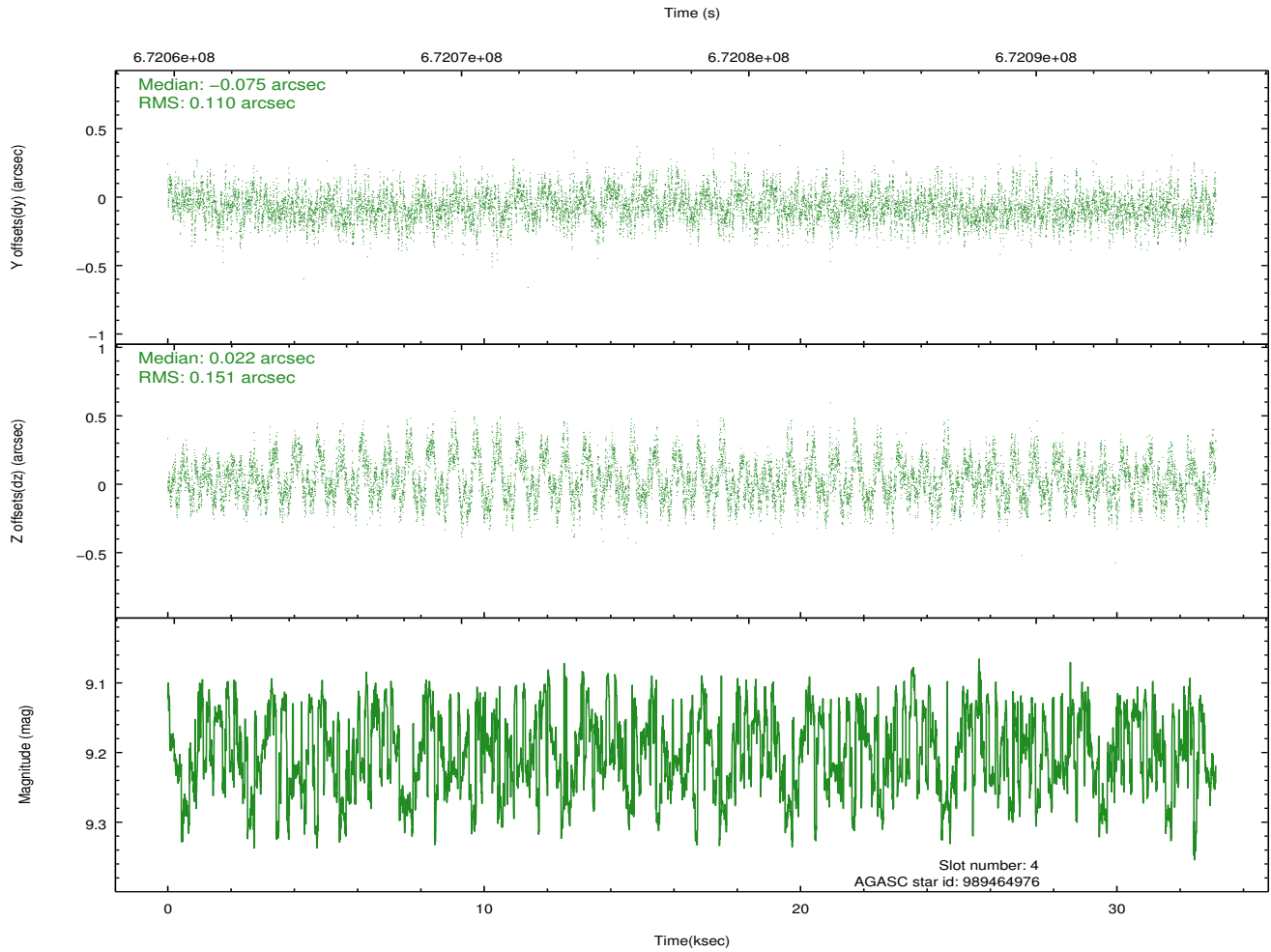
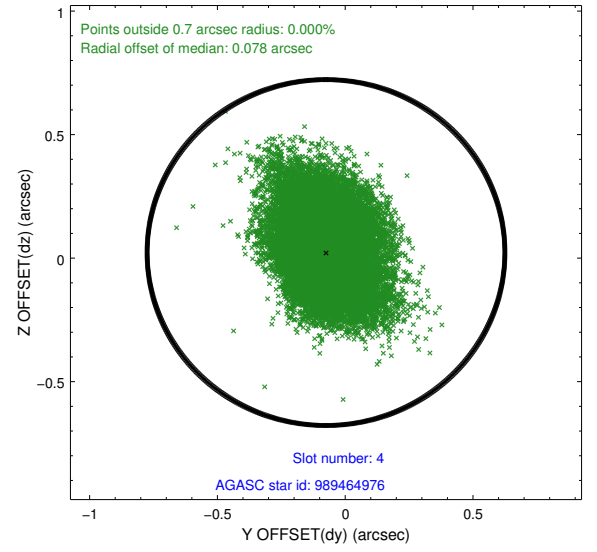
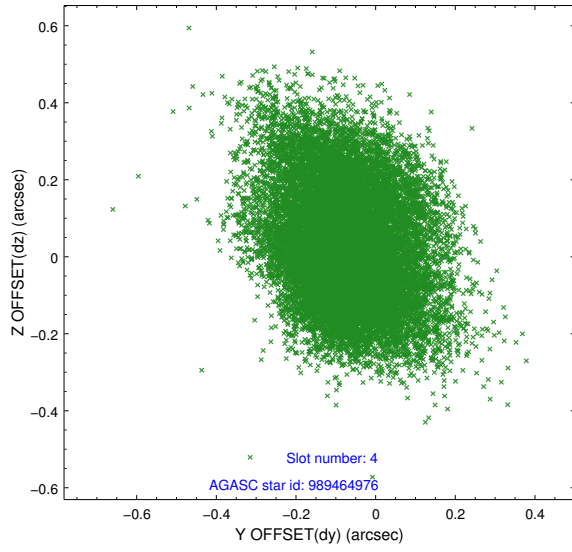
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.05	8077	1.000	-0.333	-0.226	0.015	0.032	0.000000	0.000000	-769.45	-1743
1	FID		ACIS-S-4	7.19	8081	1.000	0.754	0.221	0.020	0.066	0.000000	0.000000	2144.85	165
2	FID		ACIS-S-5	7.15	8081	1.000	-0.458	0.013	0.027	0.054	0.000000	0.000000	-1822.41	158
3	GUIDE	used	989464056	6.66	16160	1.000	0.070	0.466	0.118	0.184	29.735893	-42.949136	-189.88	-1636
4	GUIDE	used	989464976	9.20	16140	1.000	-0.075	0.022	0.199	0.319	28.960994	-43.047006	1866.62	-1397
5	GUIDE	used	989467528	8.20	16148	1.000	0.020	0.151	0.136	0.215	29.209436	-43.178151	1238.42	-891
6	GUIDE	used	989470432	9.27	16135	1.000	-0.045	-0.415	0.170	0.271	29.550844	-43.446971	399.88	123
7	GUIDE	used	989470600	9.36	16111	1.000	0.031	-0.226	0.211	0.345	29.755442	-43.921156	-32.82	1859

2.4 Star Slots

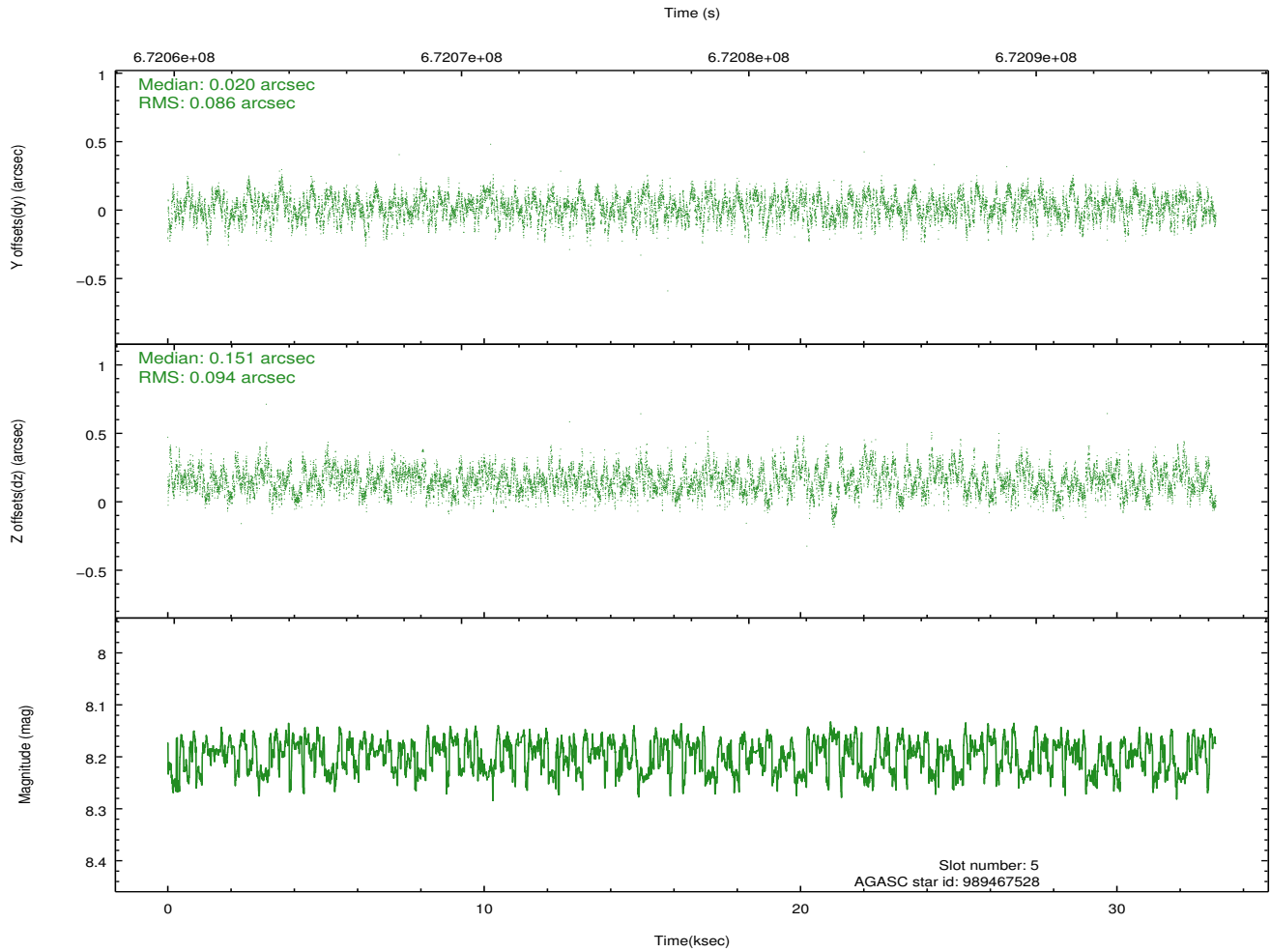
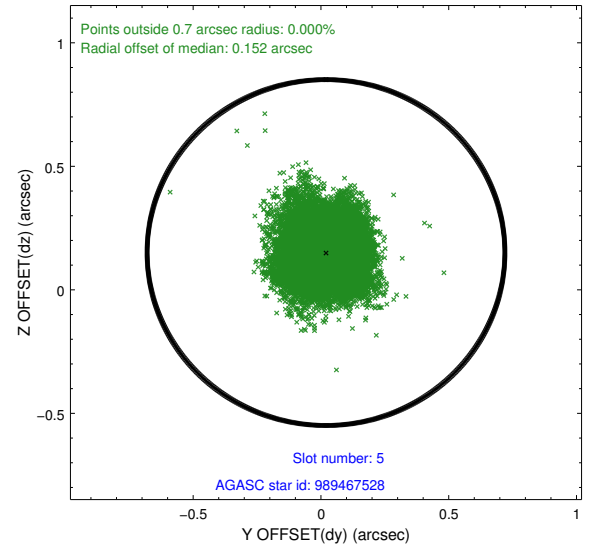
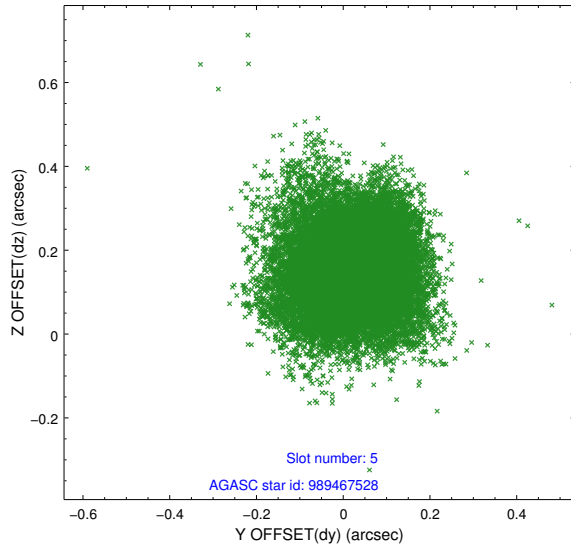
2.4.1 Slot 3



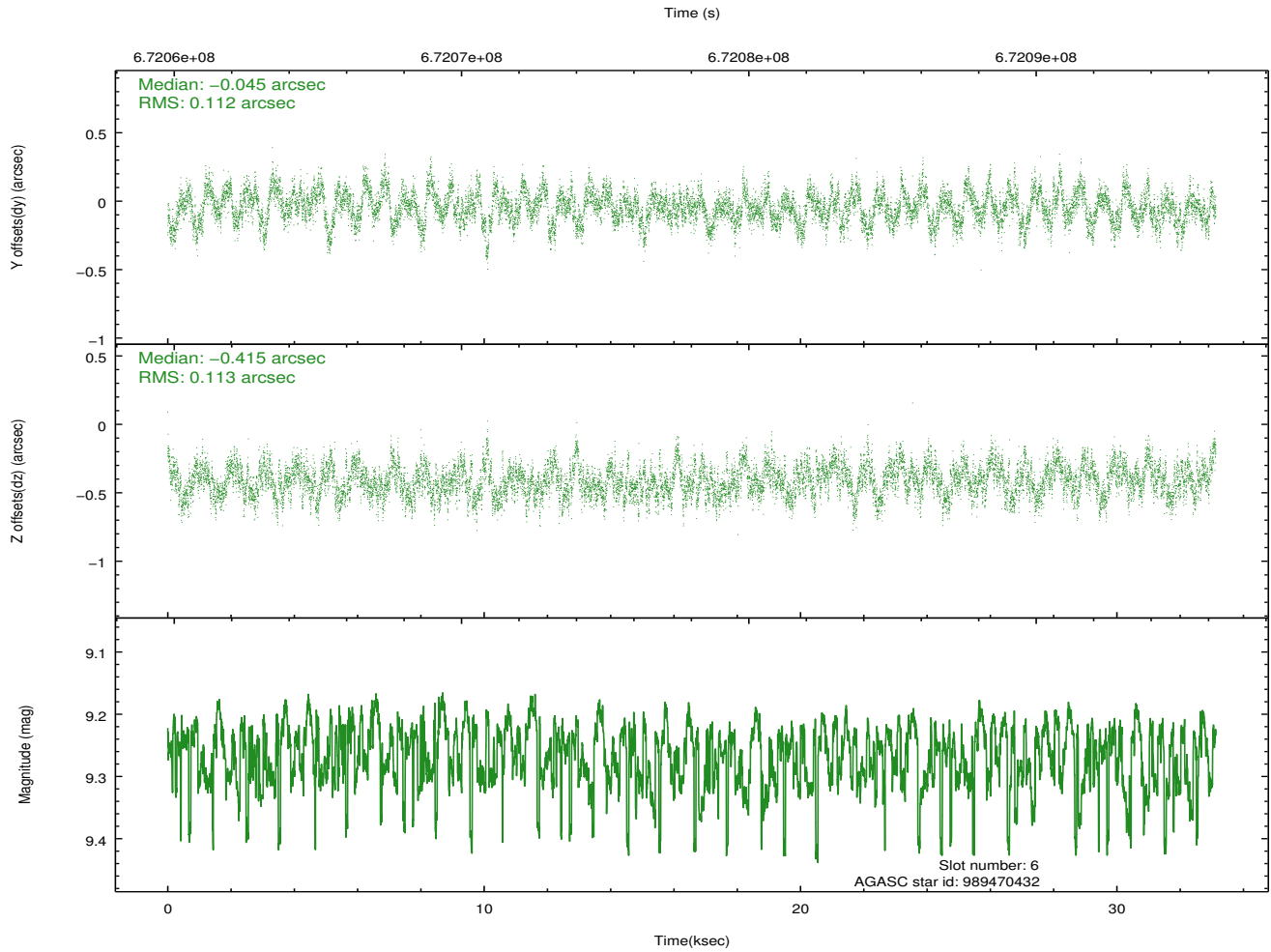
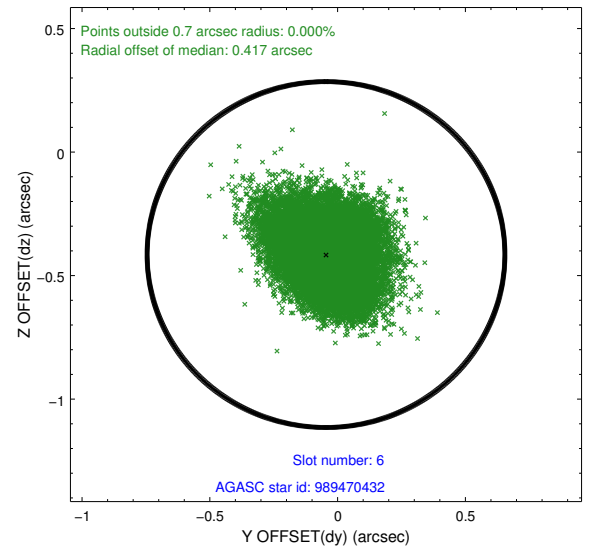
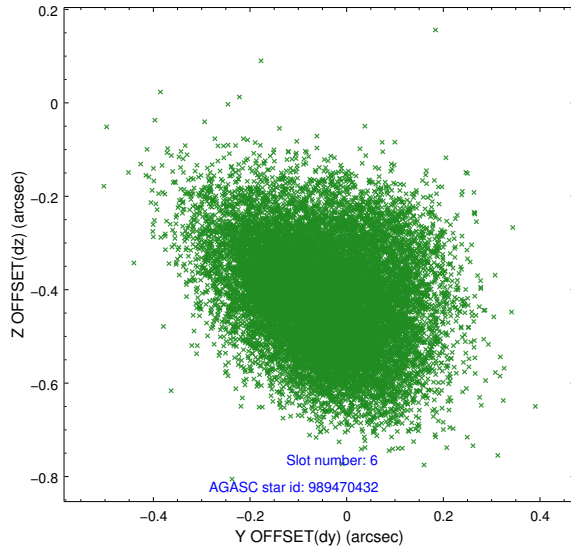
2.4.2 Slot 4



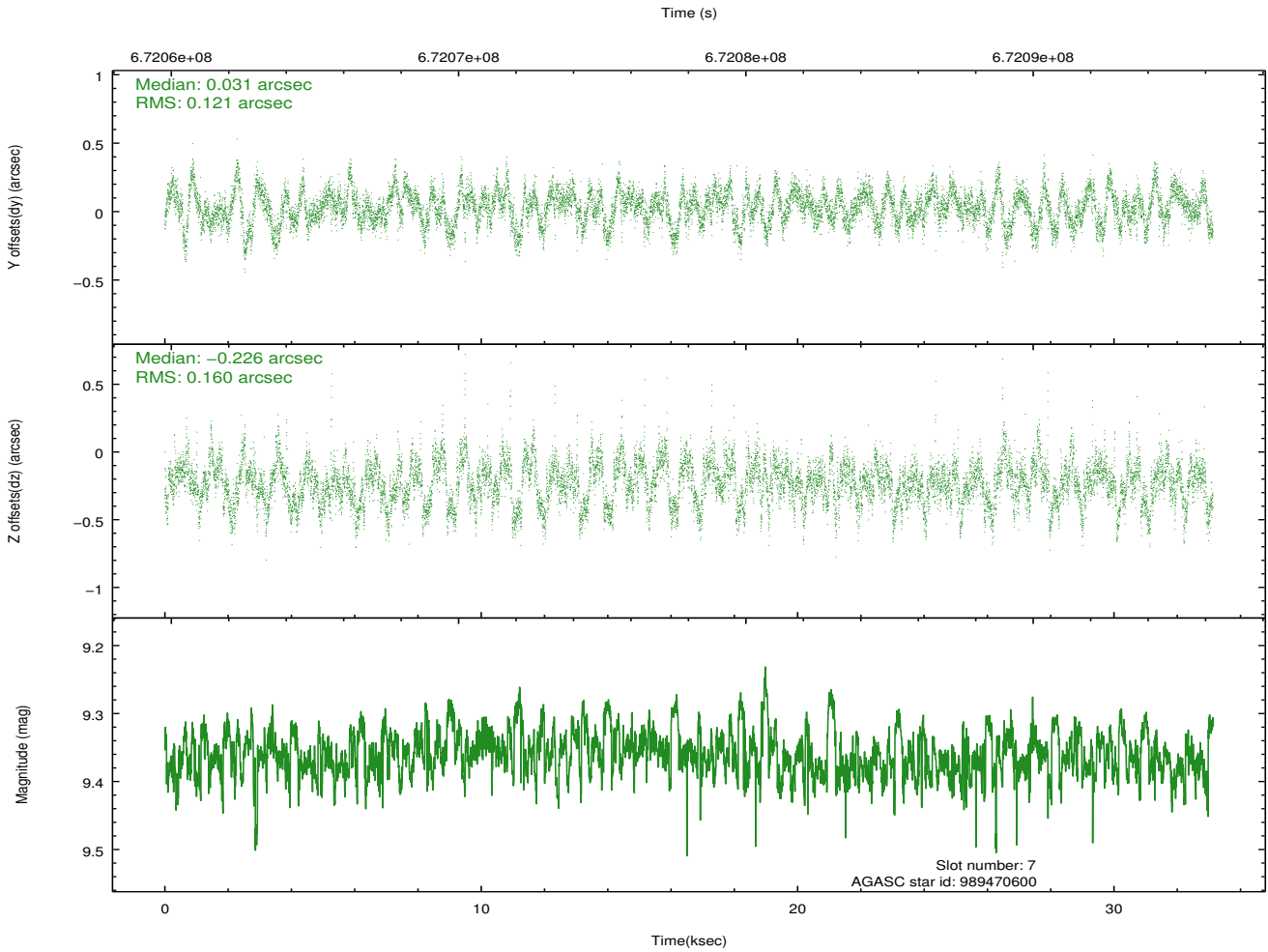
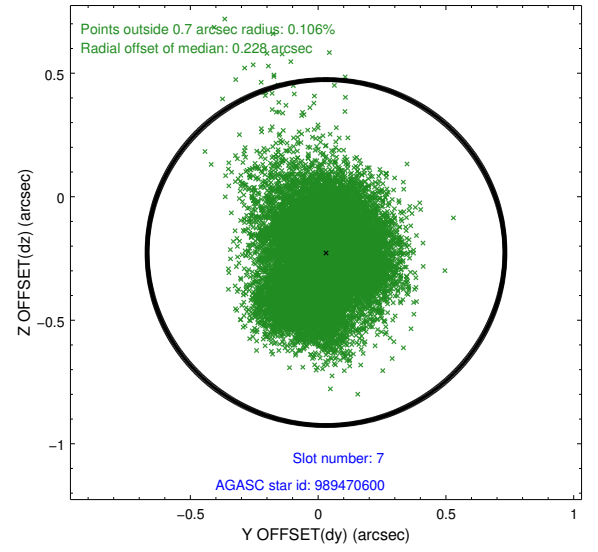
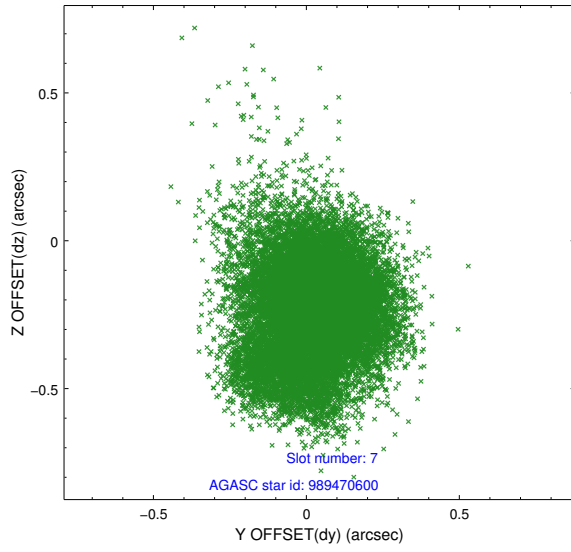
2.4.3 Slot 5



2.4.4 Slot 6

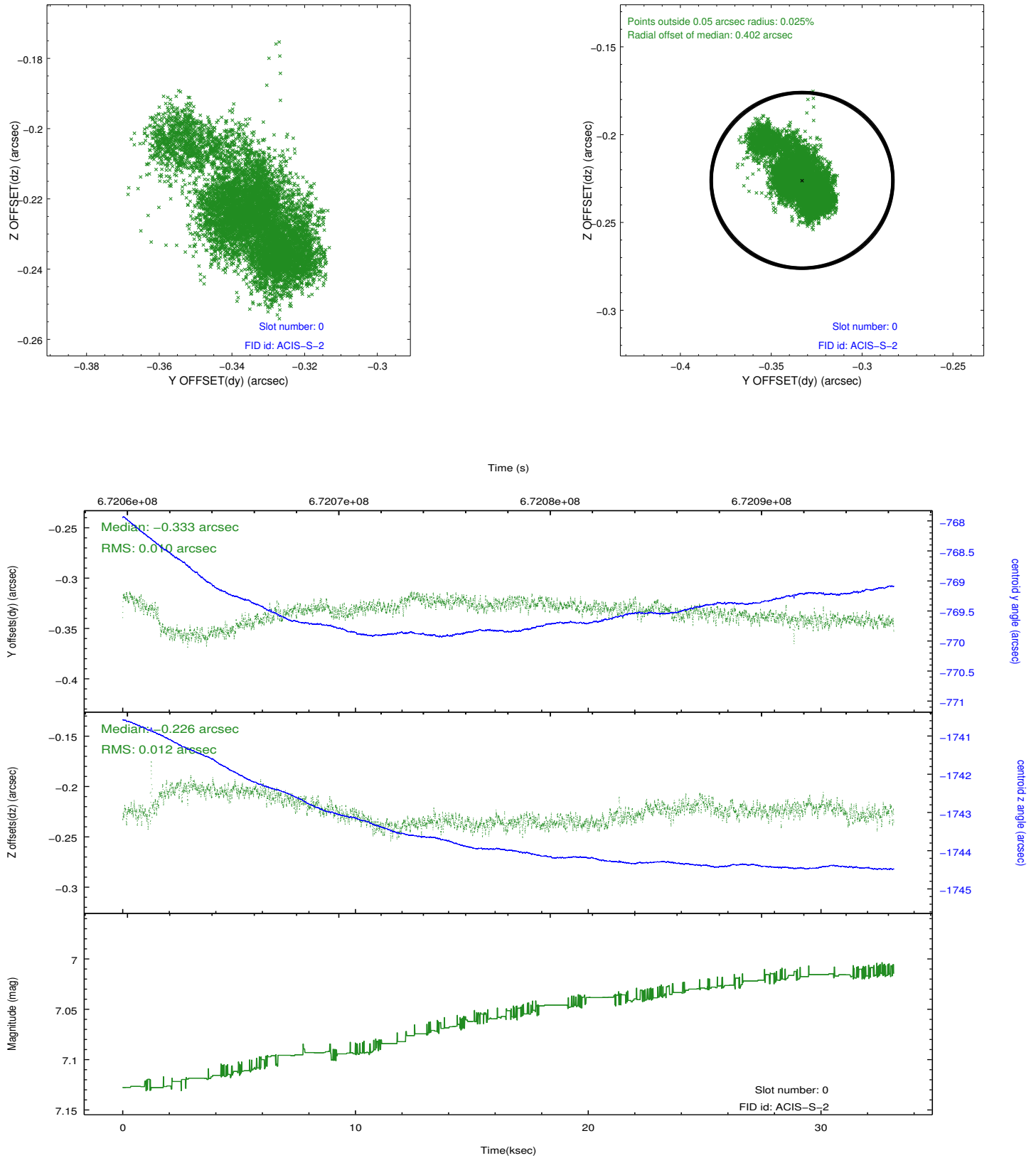


2.4.5 Slot 7

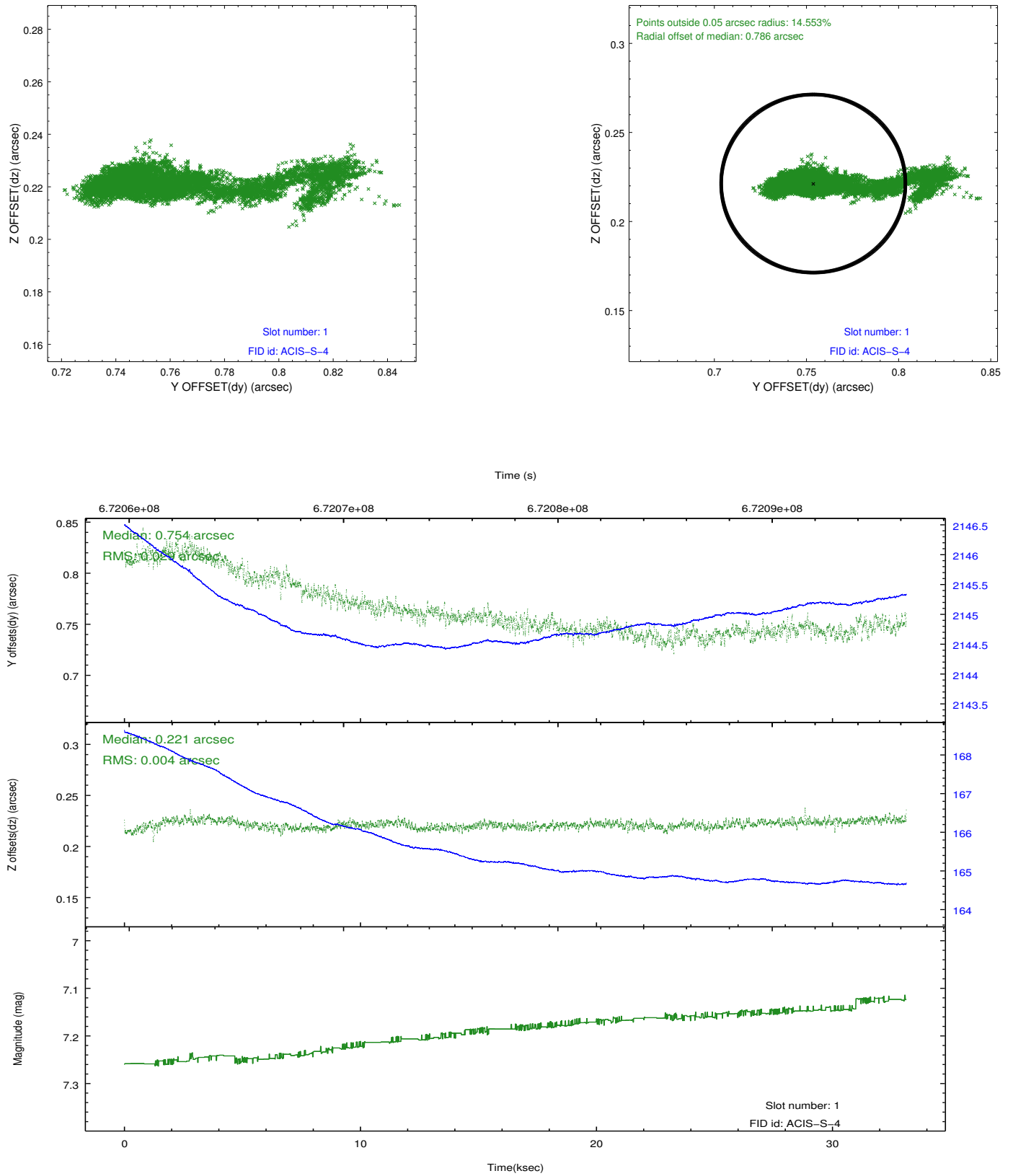


2.5 FID Slots

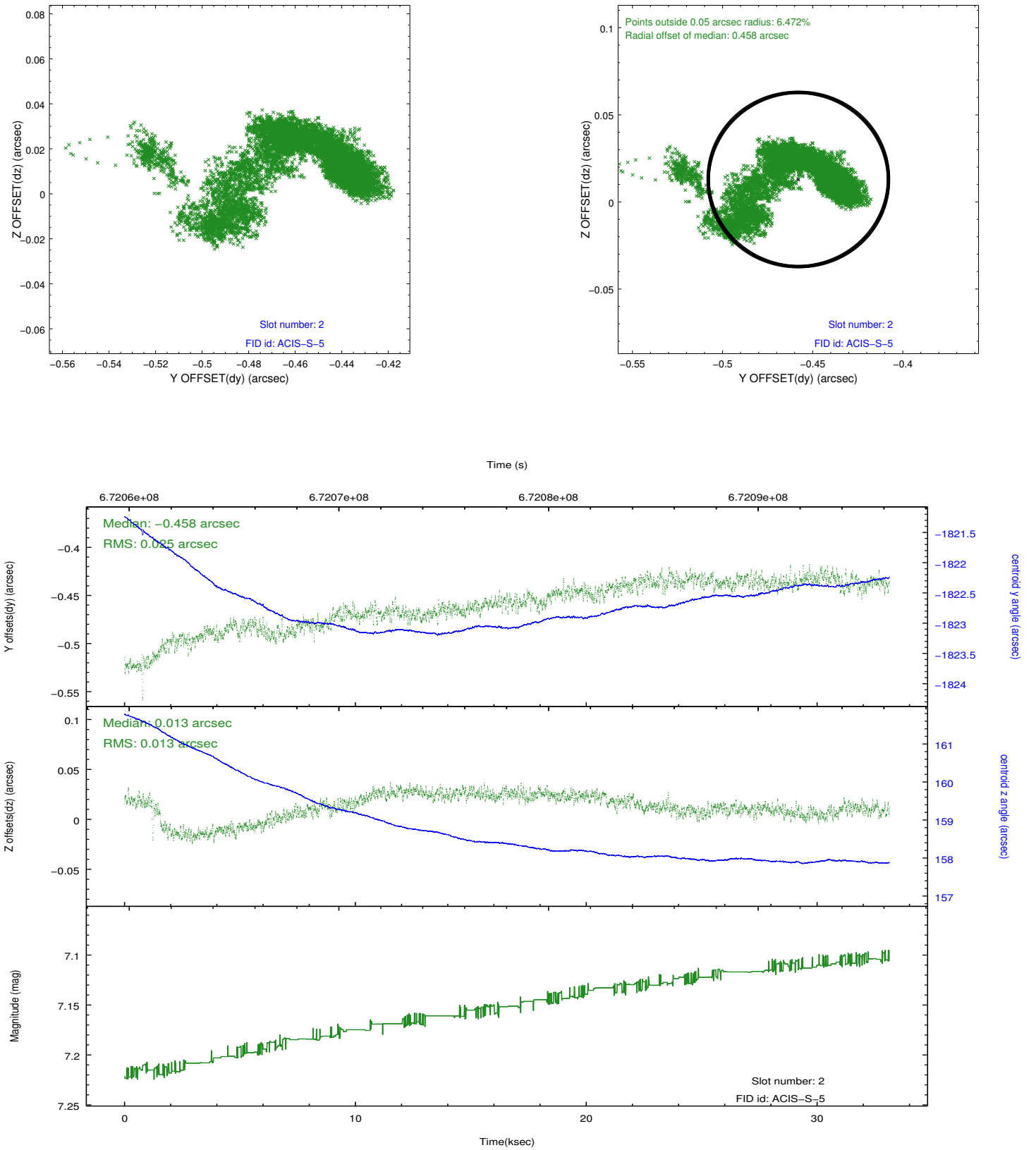
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.04.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.058200927258

A.2 Comments