

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 21157 - L2 Version 1
Chandra X-Ray Center

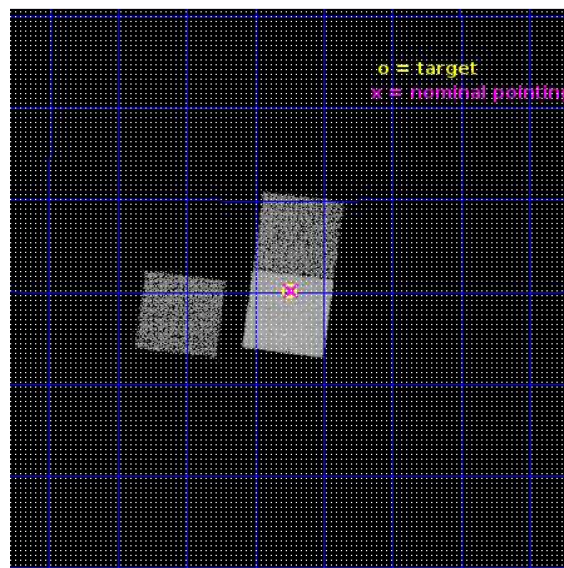
L2 Processing Date : Oct 24 2018

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1 Front

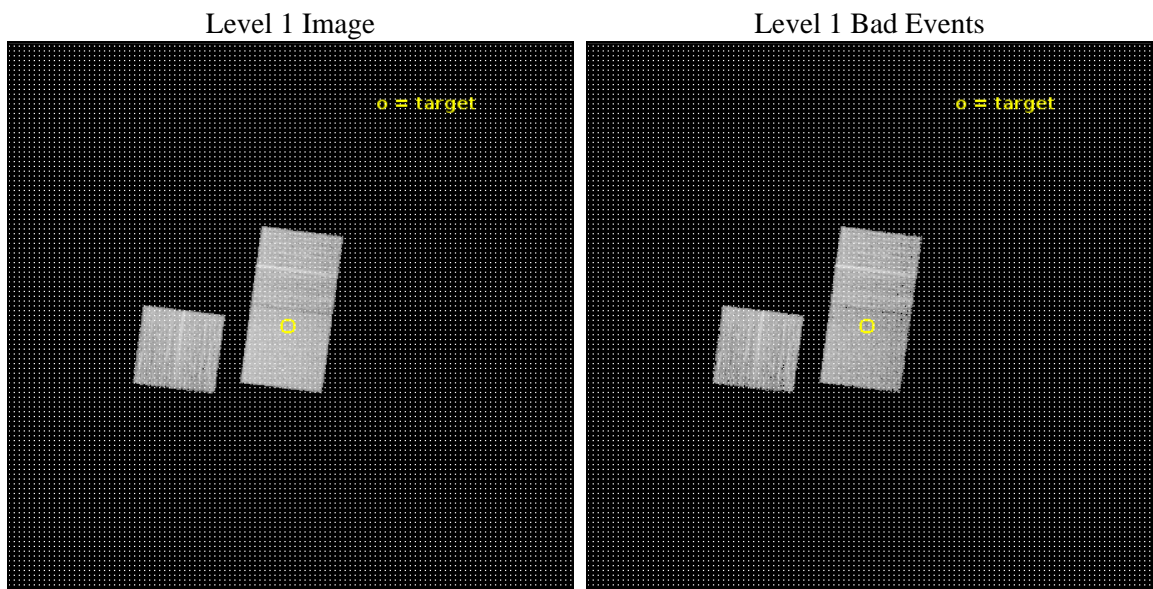
seq_num	201213	Sequence number
obs_id	21157	Observation id
title	Spin-down, dynamos and habitability: Chandra/K2 exploration of nearby M dwarfs	Proposal title
observer	Beate Stelzer	Principal investigator
object	EPIC 210579749	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	55.938333	Observer's specified target RA [deg]
dec_targ	16.66725	Observer's specified target Dec [deg]
ra_nom	55.934011788246	Nominal RA [deg]
dec_nom	16.669354332309	Nominal Dec [deg]
roll_nom	97.438126330433	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9609.0718843937	Sum of GTIs [s]
livetime	9483.5222861283	Livetime [s]
ontime3	9608.9898043871	Sum of GTIs [s]
ontime6	9609.03084445	Sum of GTIs [s]
ontime7	9609.0718843937	Sum of GTIs [s]
l2events	52296	Number of level 2 events



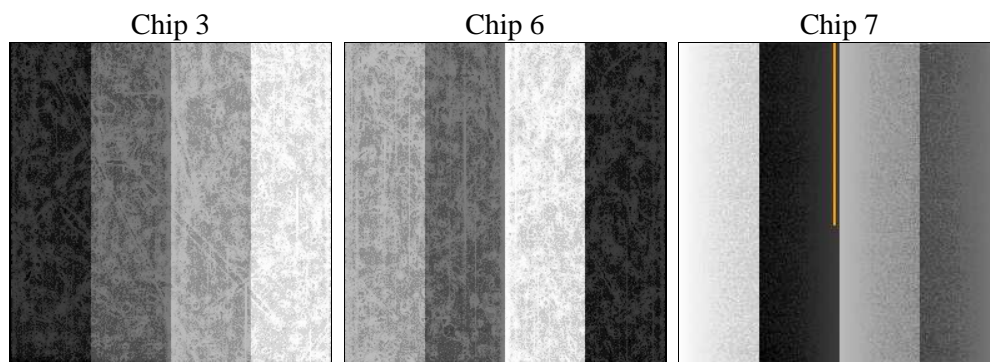
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9500.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4.1	Processing system revision	ontime	9609.0718843937	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime3	9608.9898043871	Sum of GTIs [s]
date	2018-10-25T01:45:49	Date and time of file creation	ontime6	9609.03084445	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	9609.0718843937	Sum of GTIs [s]
			l1events	240780	Number of level 1 events

2.1.4 Events

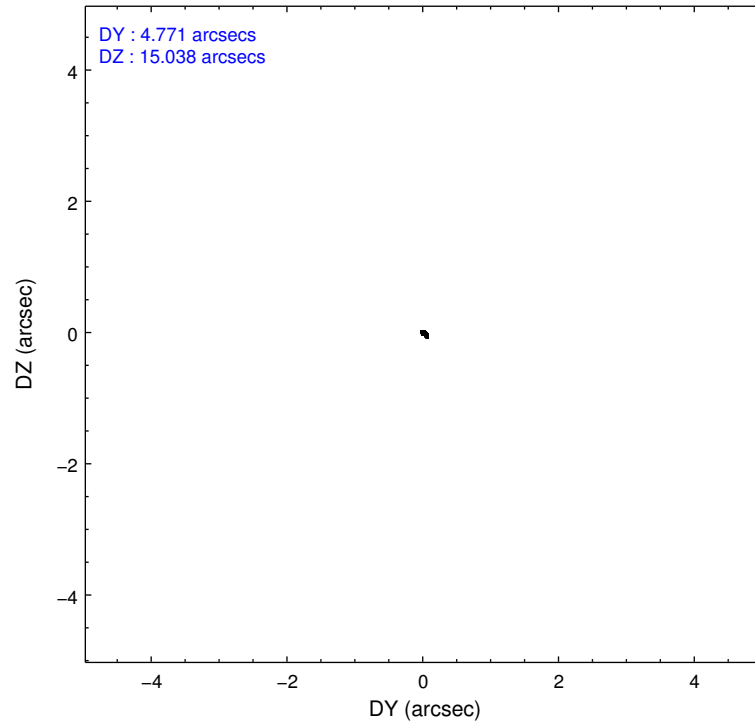
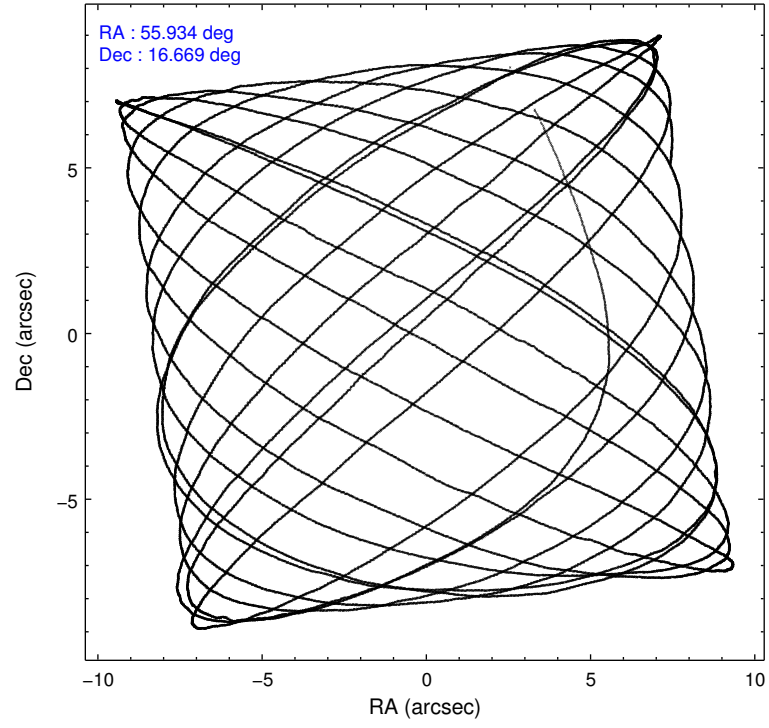
	ccd 3	ccd 6	ccd 7
level 1 events	70203	78177	92400
rejected events	63140	70043	52771
rejected %	89%	89%	57%

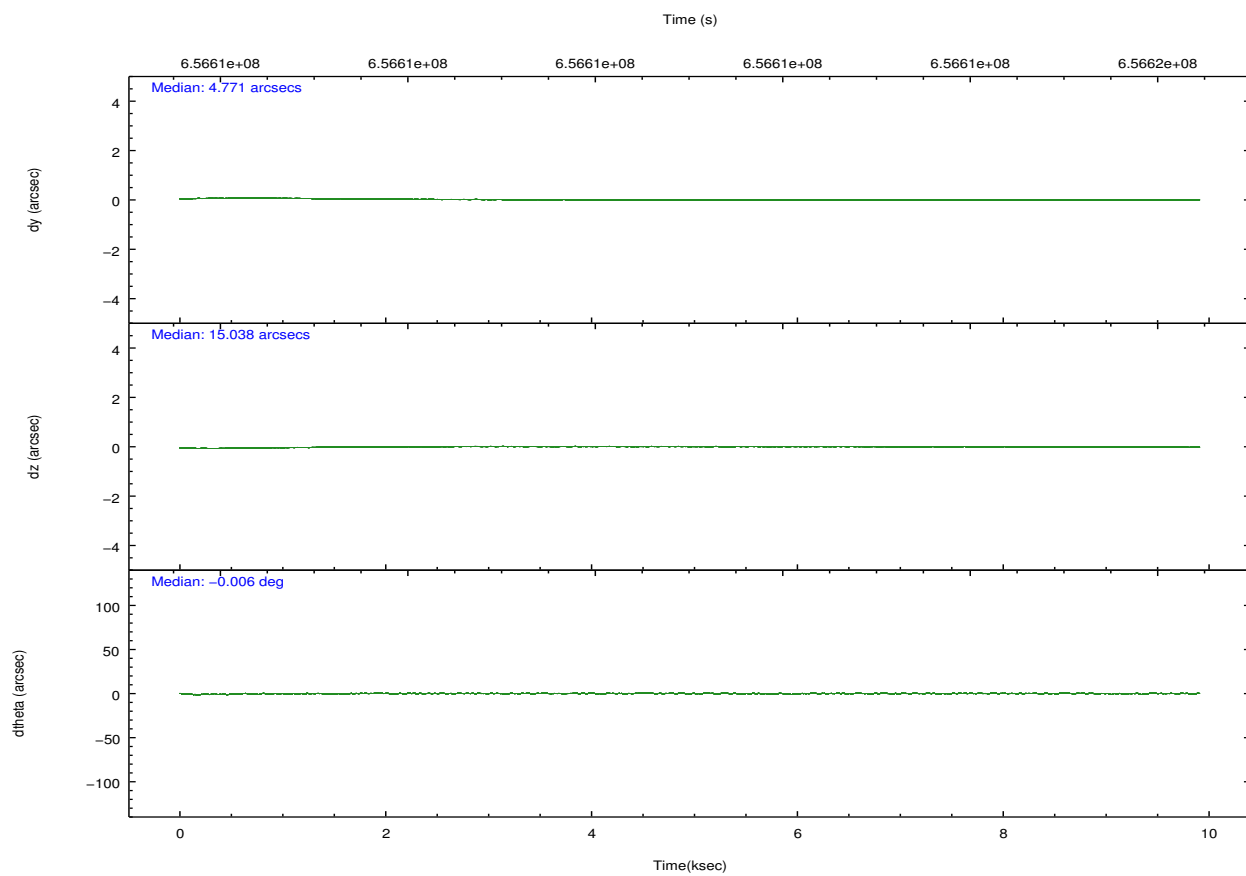
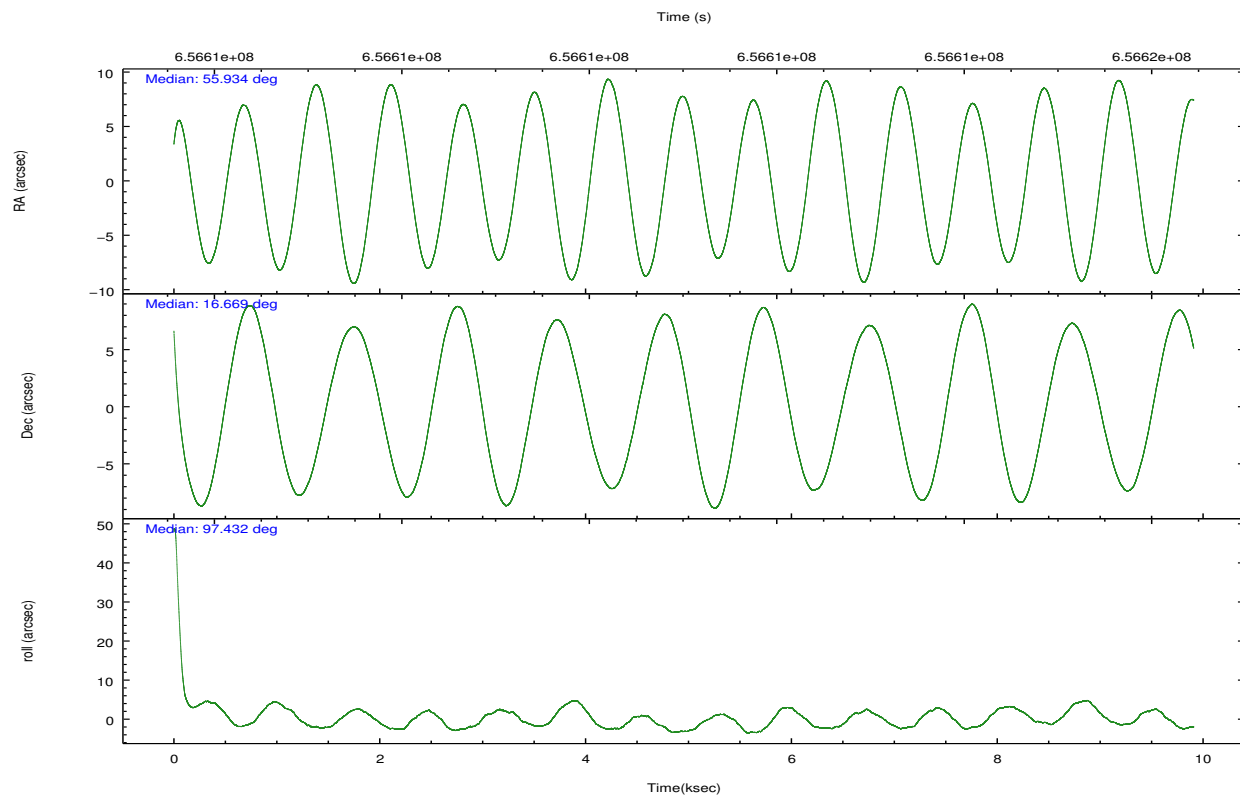
	ccd 3	ccd 6	ccd 7
grade 0 events	2386	2236	3265
	3%	2%	3%
grade 1 events	37	29	147
	0%	0%	0%
grade 2 events	1590	2321	8240
	2%	2%	8%
grade 3 events	752	653	3034
	1%	0%	3%
grade 4 events	761	696	3071
	1%	0%	3%
grade 5 events	3037	2908	8712
	4%	3%	9%
grade 6 events	1578	2234	22045
	2%	2%	23%
grade 7 events	60062	67100	43886
	85%	85%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-367	ACIS-367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	O1	N
Observation mode	POINTING	POINTING	CCD I1 on	O2	N
[deg] Pointing RA	55.951744	55.93401178824598	CCD I2 on	O3	N
[deg] Pointing Dec	16.647793	16.66935433230916	CCD I3 on	O4	Y
[deg] Pointing Roll	97.276354	97.43812633043328	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	O5	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	N	N
[s] Observation start time (MET)	656606471.184000	656605608.08728	CCD S5 on	N	N
Observation start date	2018-10-22T14:40:02	2018-10-22T14:26:48	Number of optional ACIS chips dropped	3	3
[s] Observation end time (MET)	656615971.184000	656616314.21292	On-chip summing requested	N	N
Observation end date	2018-10-22T17:18:22	2018-10-22T17:25:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



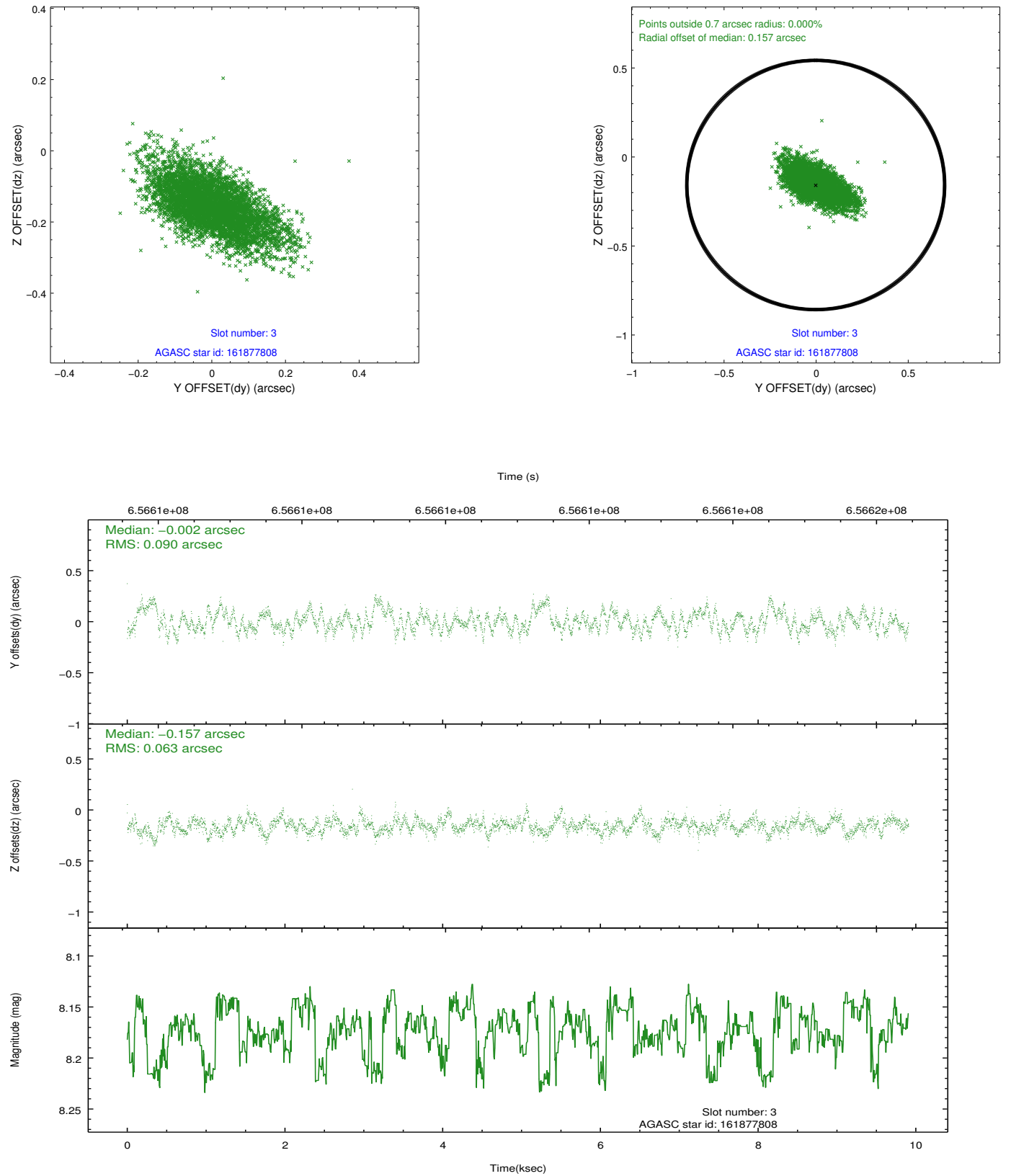


Slot Statistics

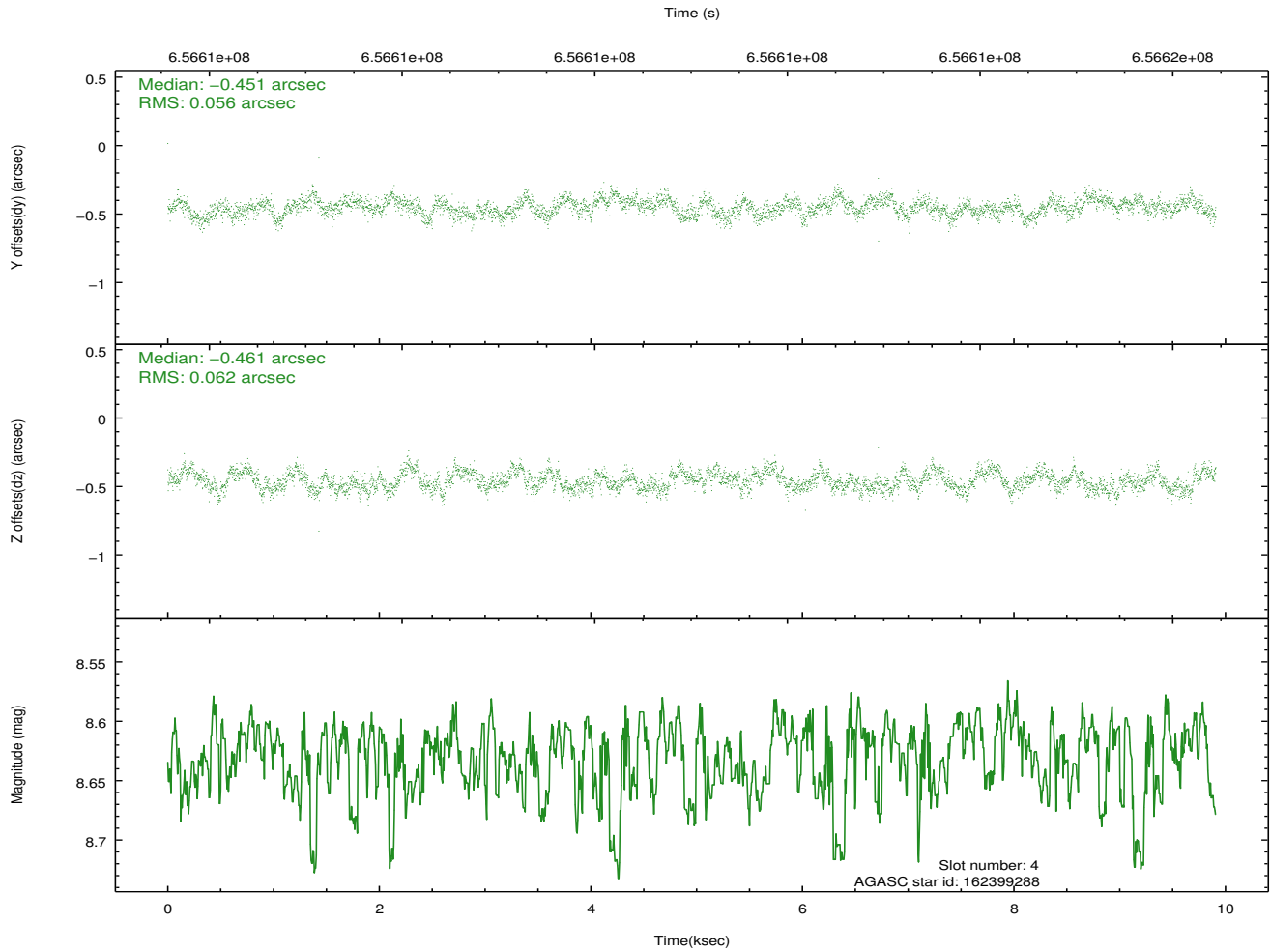
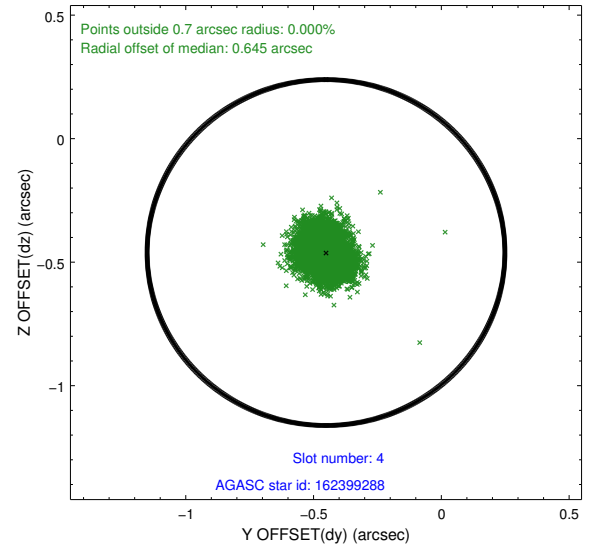
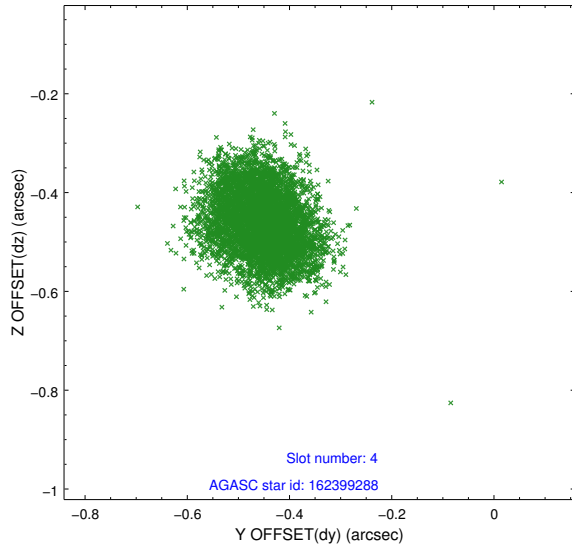
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.12	2417	1.000	-0.297	-0.121	0.007	0.012	0.000000	0.000000	-757.71	-1736
1	FID		ACIS-S-4	7.24	2416	1.000	0.603	0.176	0.006	0.010	0.000000	0.000000	2156.16	171
2	FID		ACIS-S-5	7.24	2417	1.000	-0.337	-0.046	0.007	0.012	0.000000	0.000000	-1809.97	165
3	GUIDE	used	161877808	8.17	4831	1.000	-0.002	-0.157	0.112	0.201	55.839159	16.420382	-762.80	489
4	GUIDE	used	162399288	8.63	4829	1.000	-0.451	-0.461	0.091	0.140	55.244379	17.164590	2157.49	2177
5	GUIDE	used	163581480	8.31	4832	1.000	0.235	0.353	0.112	0.175	56.585620	16.374133	-1250.08	-2047
6	GUIDE	used	163582440	8.06	4834	1.000	0.189	0.277	0.090	0.154	56.395078	16.262901	-1566.58	-1344
7	GUIDE	used	161878664	8.71	4828	1.000	0.027	-0.025	0.101	0.180	55.968228	16.022047	-2243.52	228

2.4 Star Slots

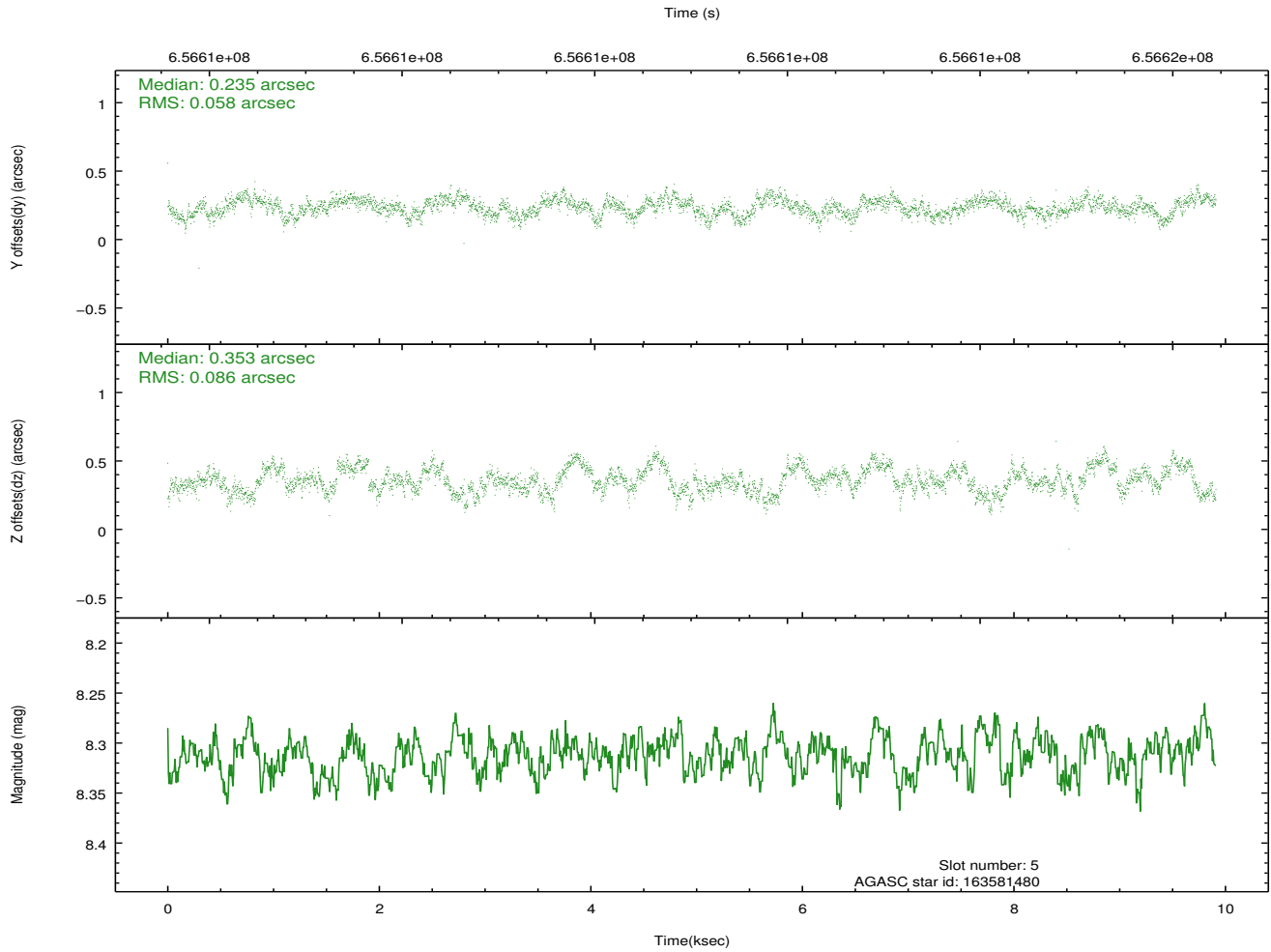
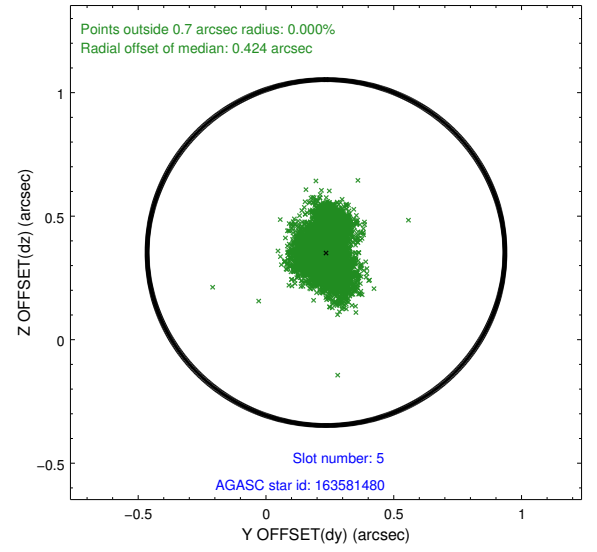
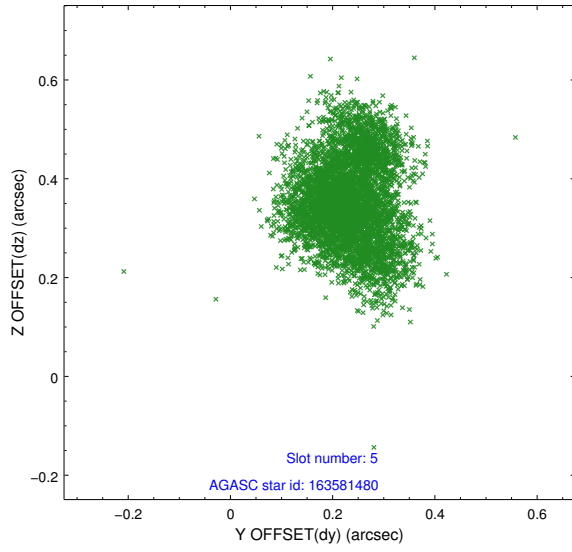
2.4.1 Slot 3



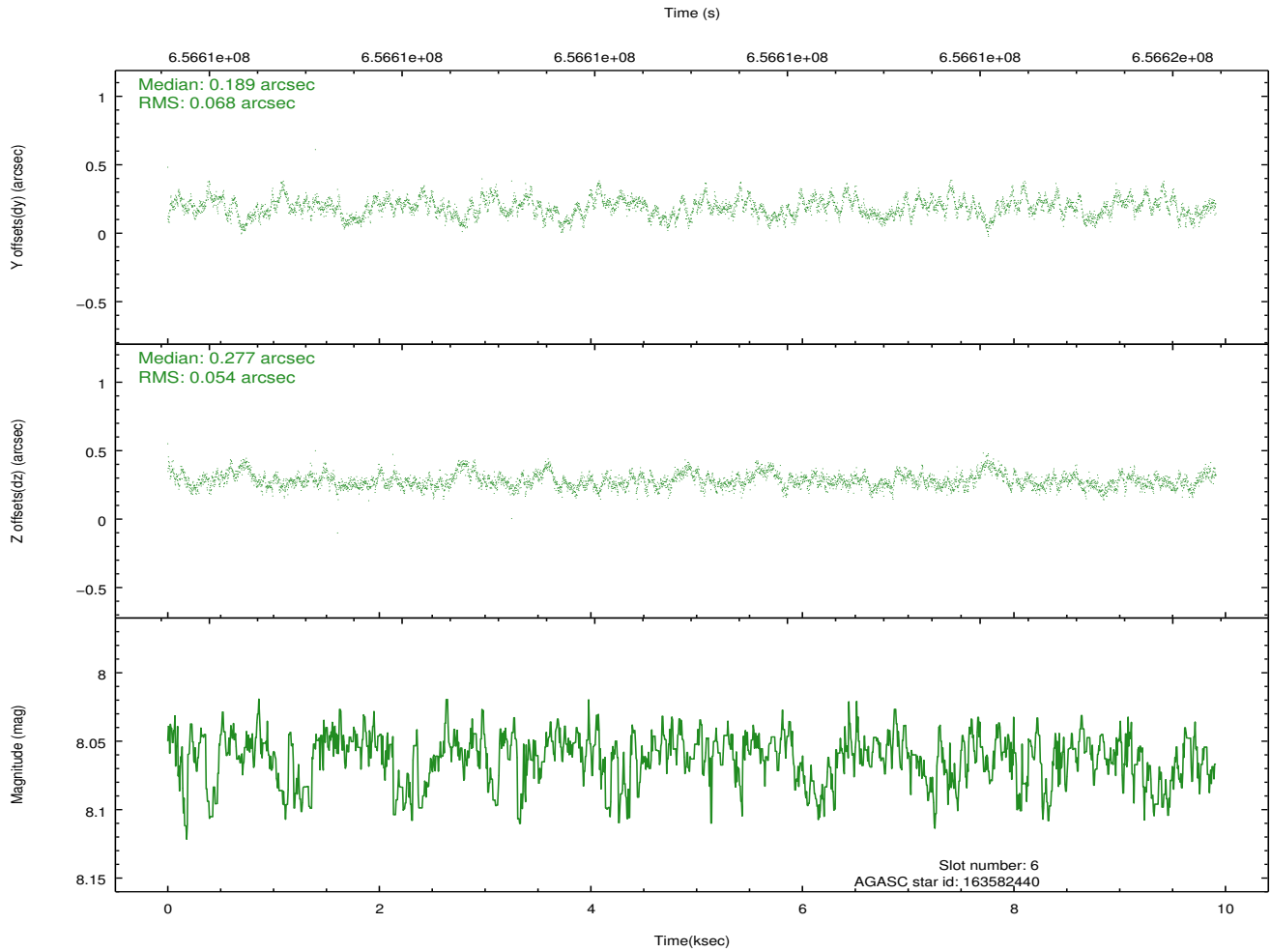
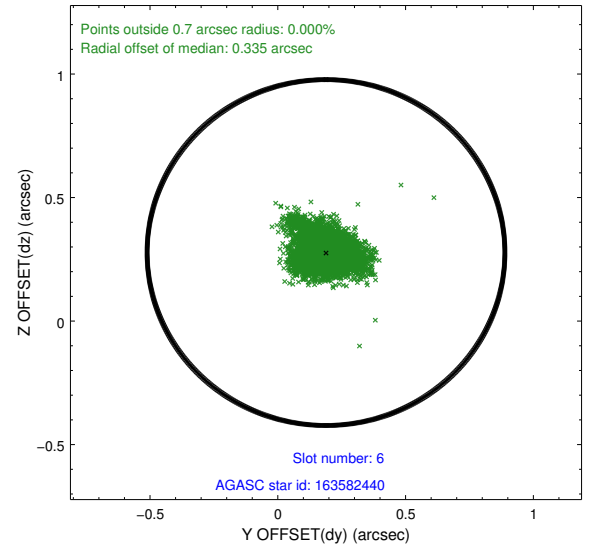
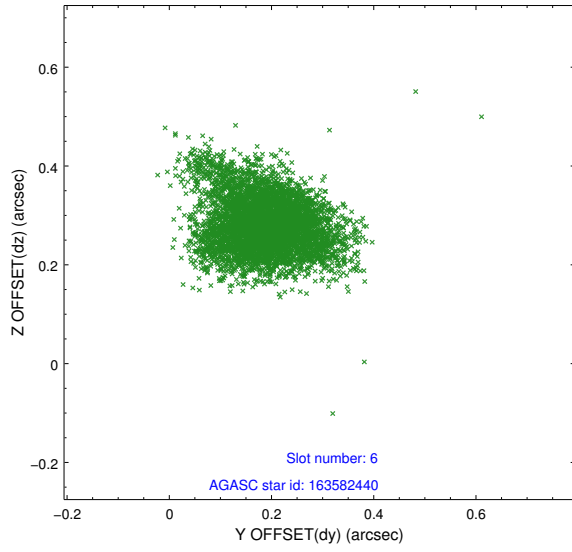
2.4.2 Slot 4



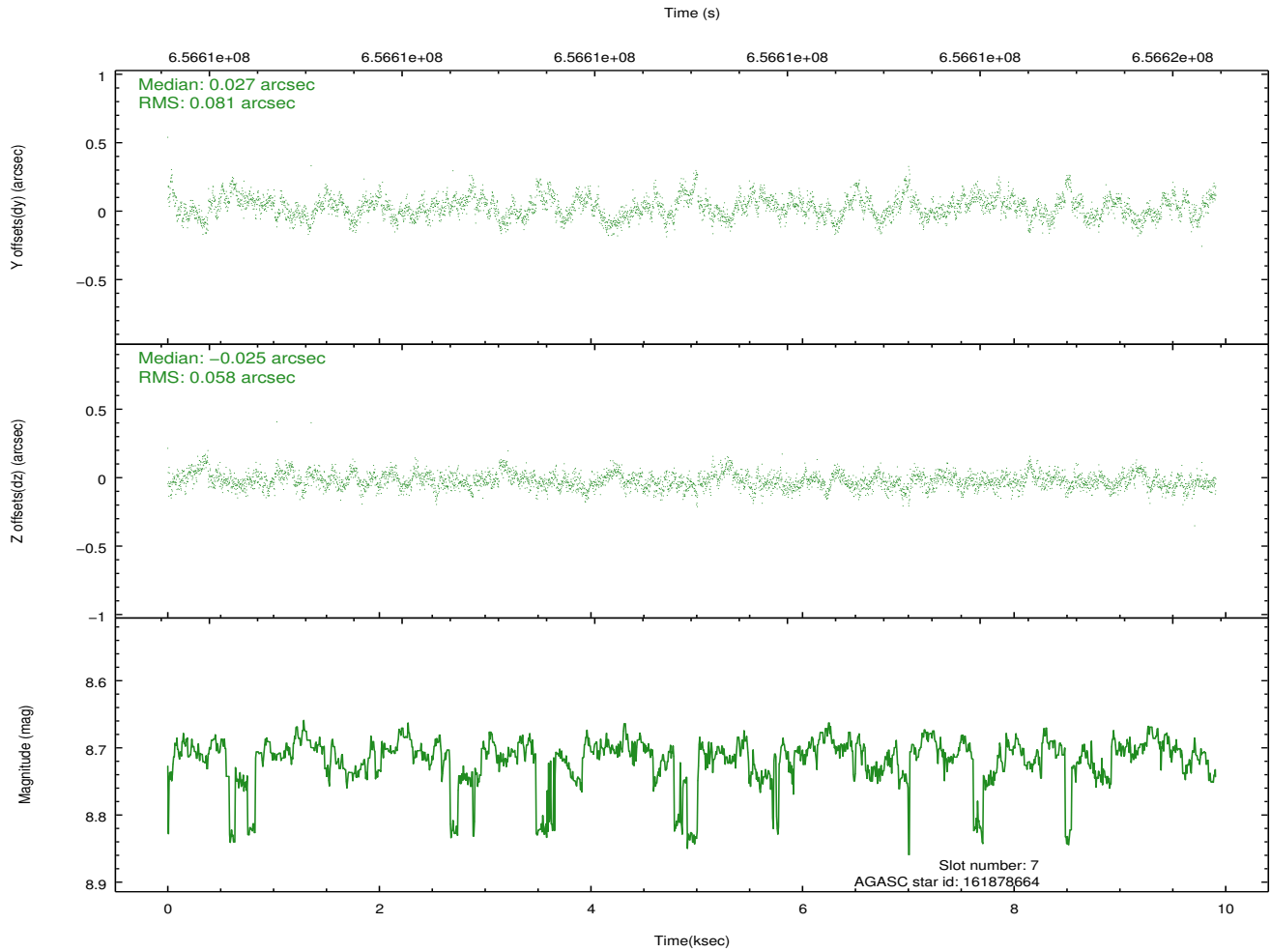
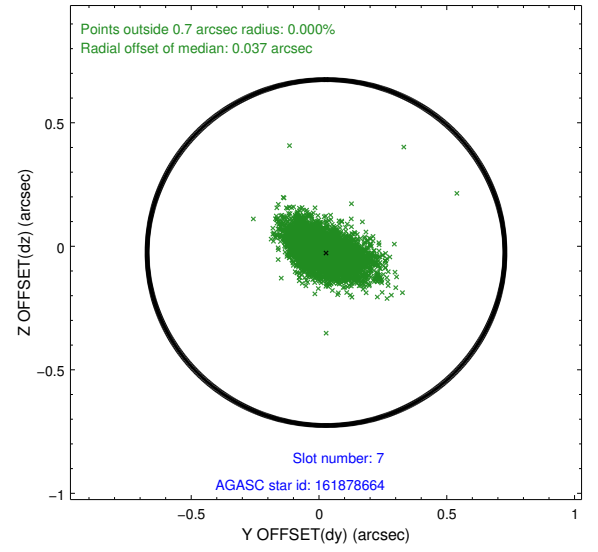
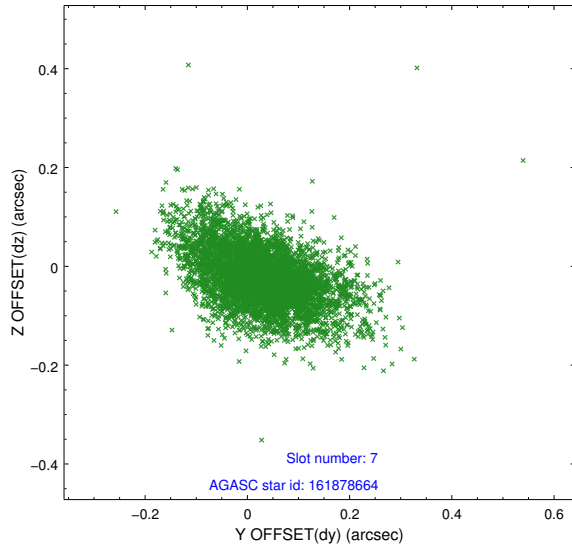
2.4.3 Slot 5



2.4.4 Slot 6

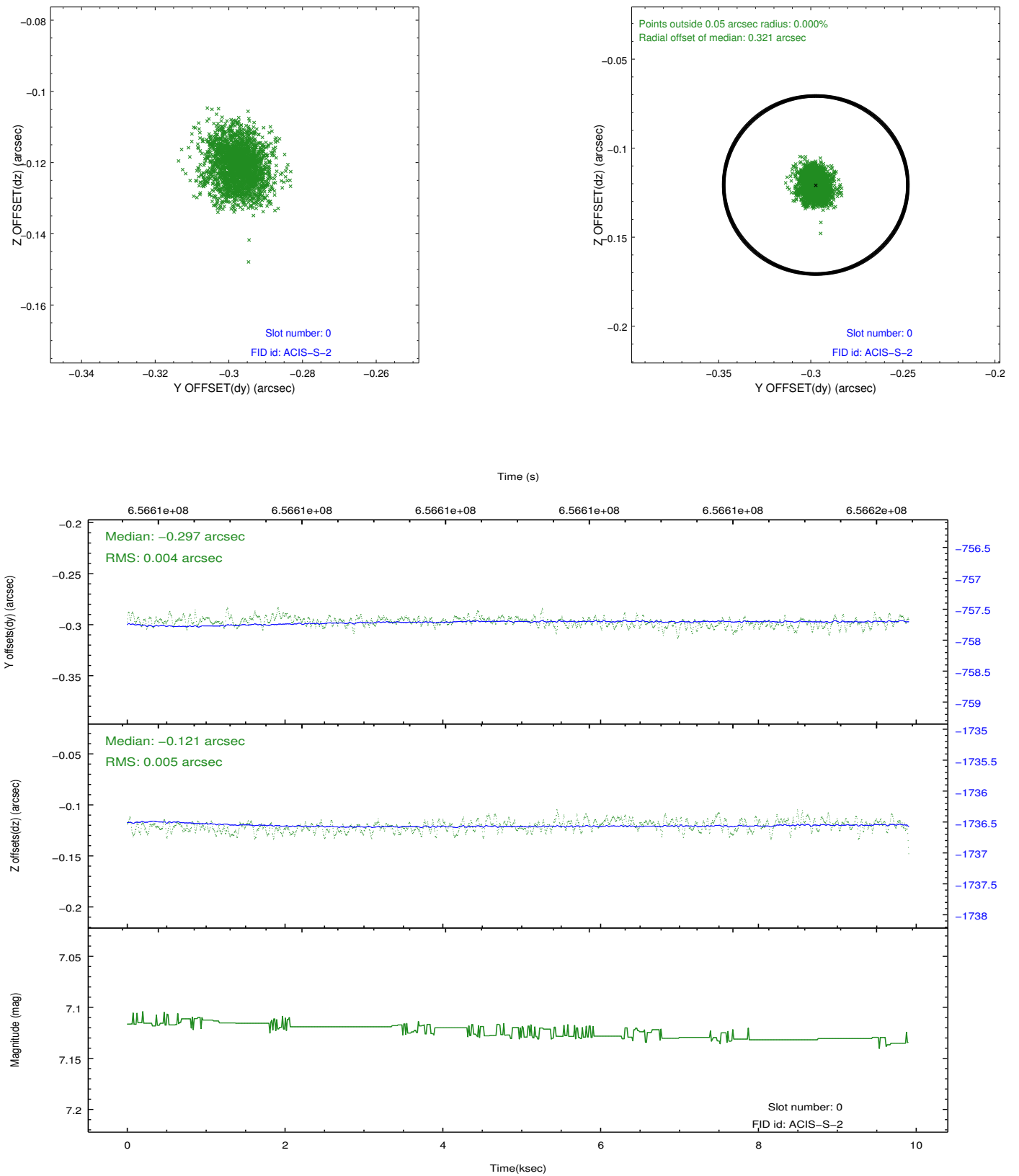


2.4.5 Slot 7

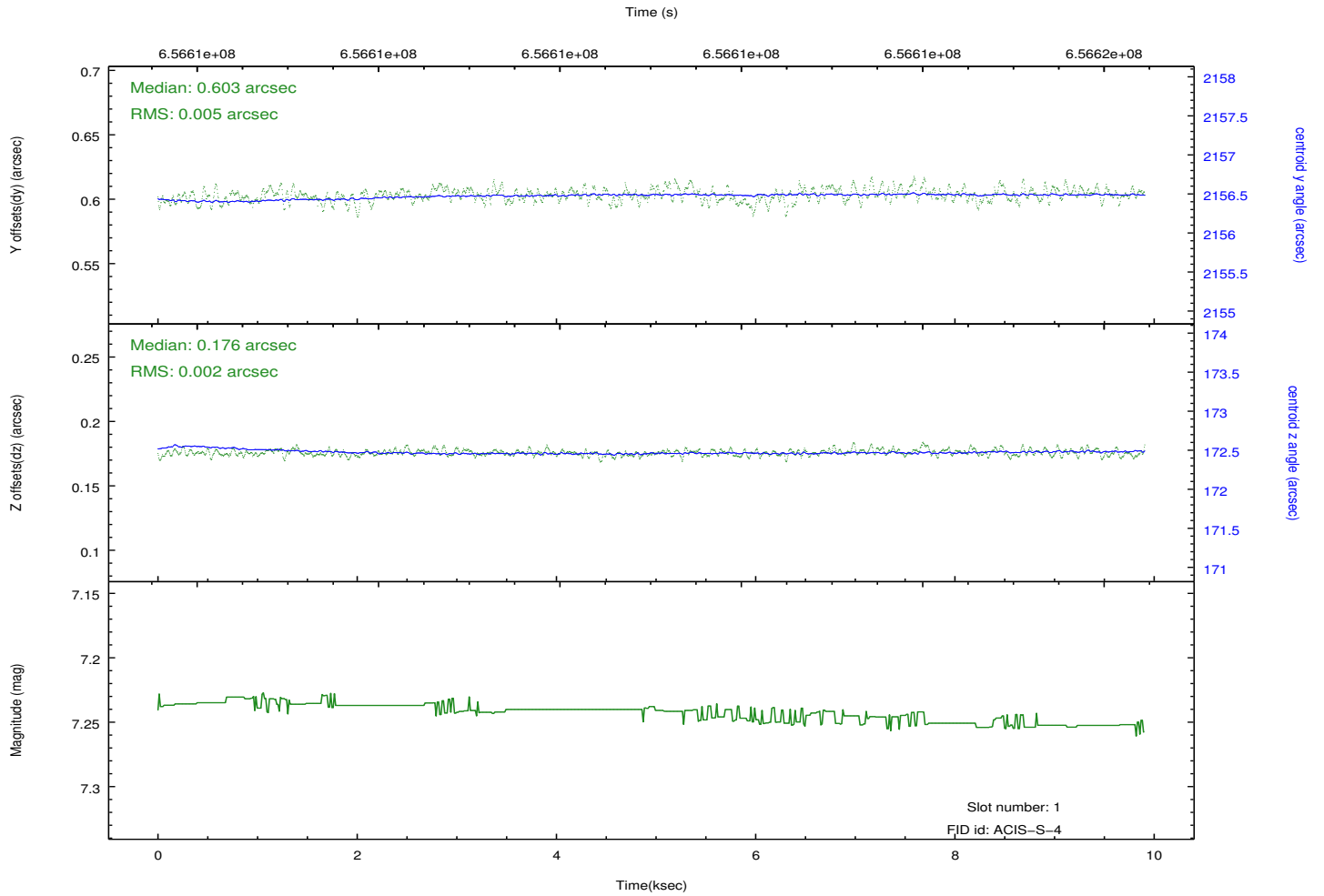
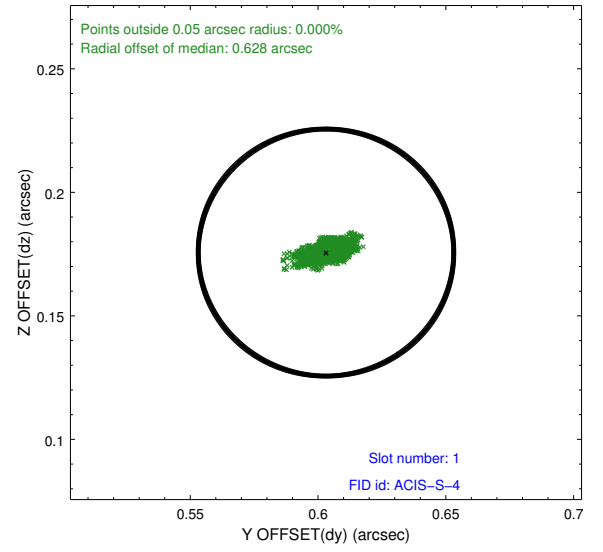
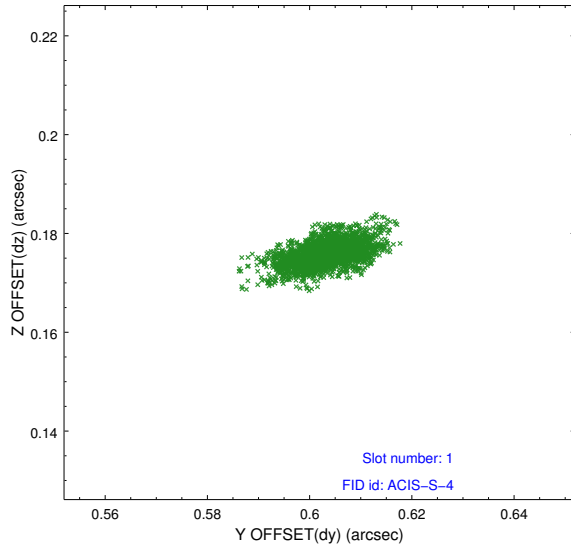


2.5 FID Slots

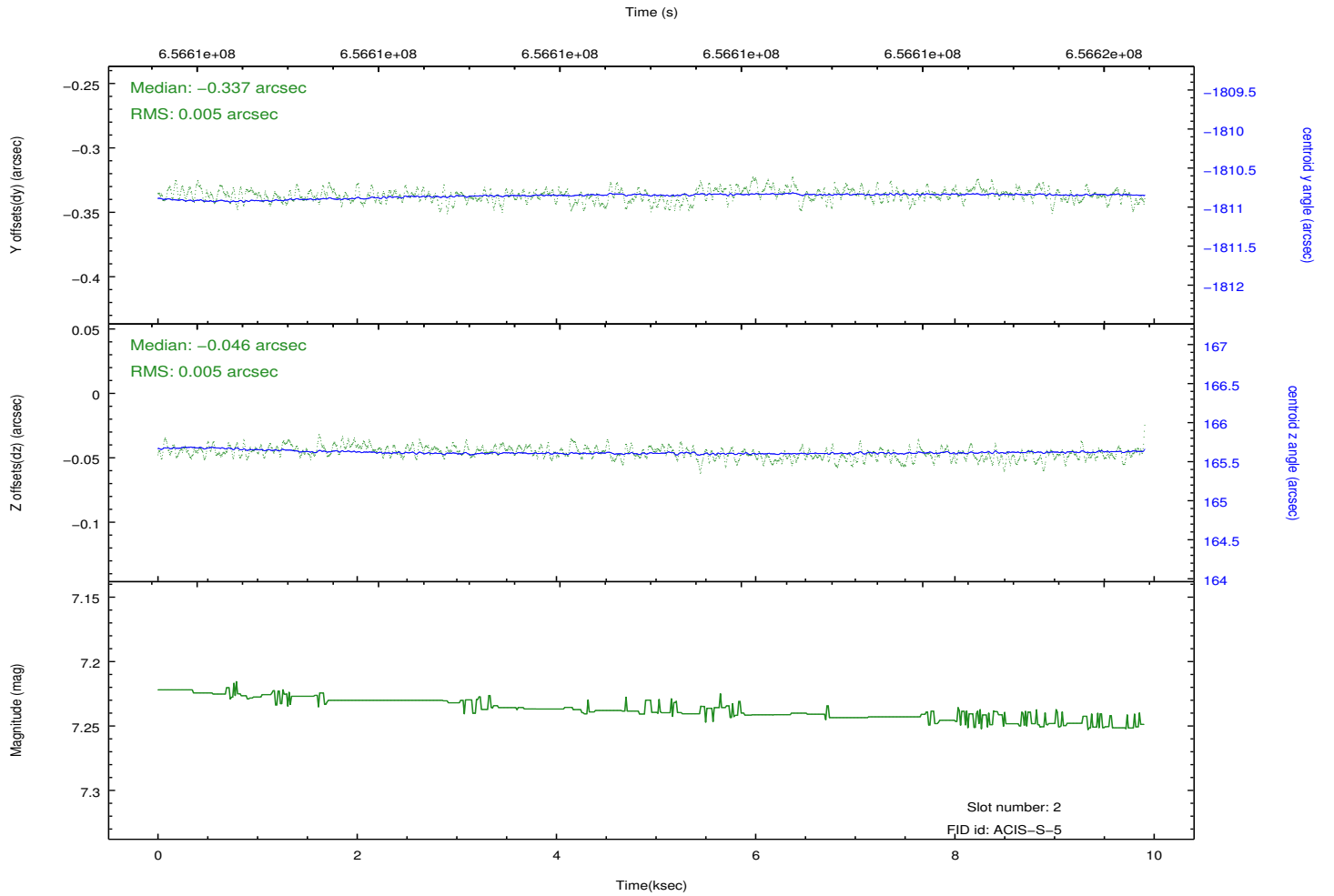
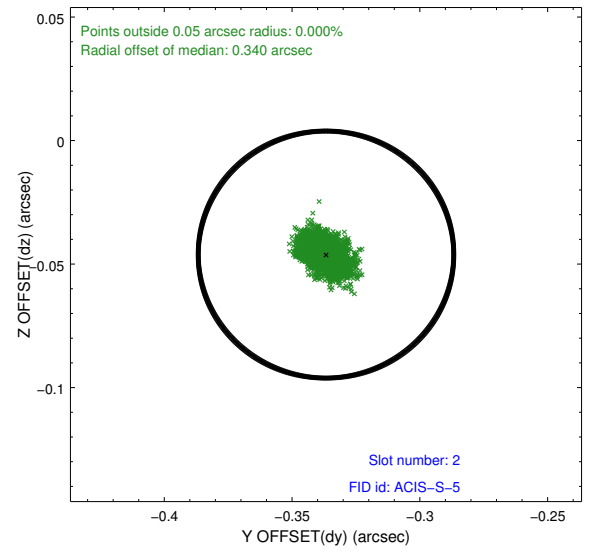
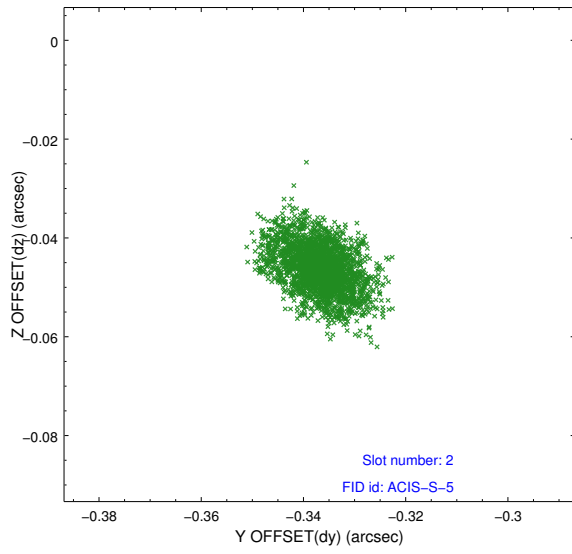
2.5.1 Slot 0



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)	2018.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.6090718843937

A.2 Comments