

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19784 - L2 Version 1
Chandra X-Ray Center

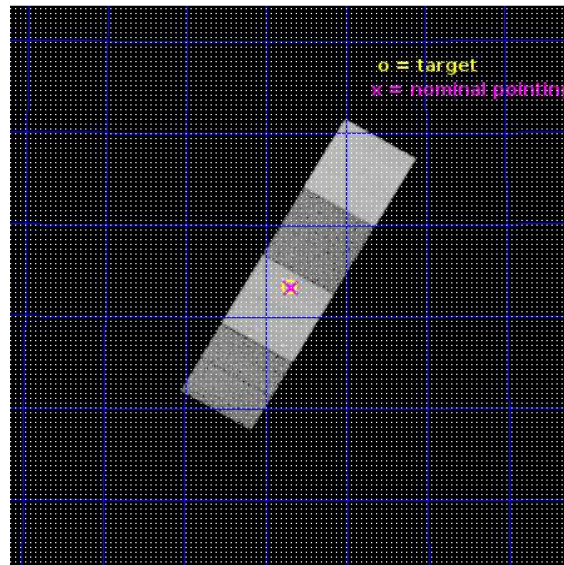
L2 Processing Date : Feb 27 2017

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1 Front

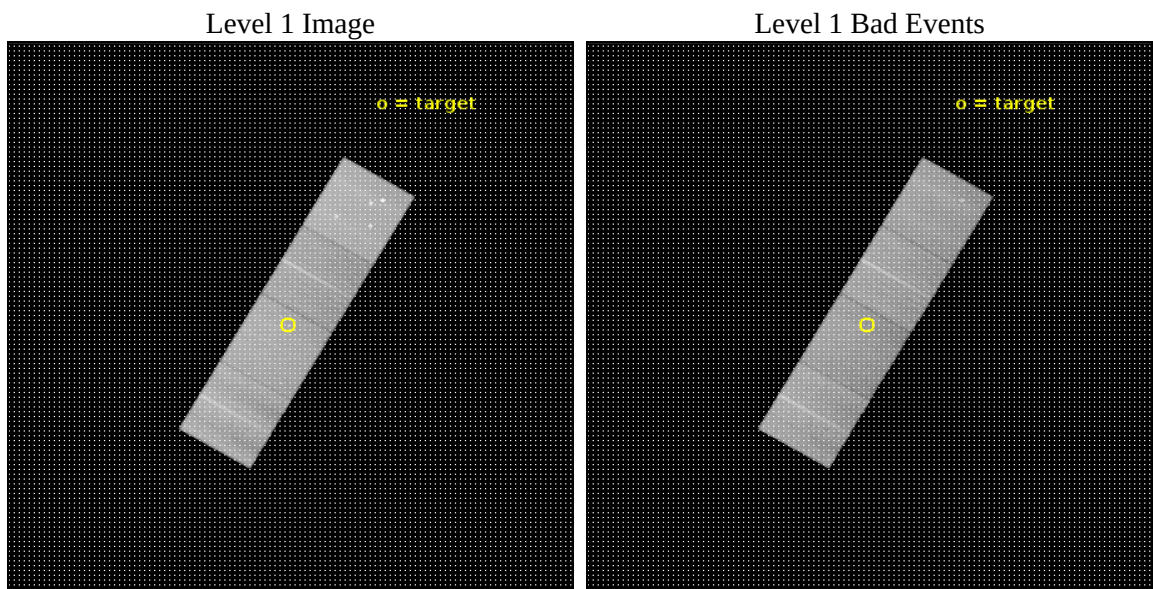
seq_num	703242	Sequence number
obs_id	19784	Observation id
title	Elliptical Galaxy in the Making: The Black Hole Activity, Galaxy-Scale Outflow, and Metal-Rich Halo of Mrk 273	Proposal title
observer	Prof. Sylvain Veilleux	Principal investigator
object	Mrk 273	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	206.175417	Observer's specified target RA [deg]
dec_targ	55.886861	Observer's specified target Dec [deg]
ra_nom	206.17028214864	Nominal RA [deg]
dec_nom	55.88648045915	Nominal Dec [deg]
roll_nom	120.1609043307	Nominal Roll [deg]
revision	1	Processing version of data
ontime	34059.70026207	Sum of GTIs [s]
livetime	33614.685203759	Livetime [s]
ontime5	34059.70026207	Sum of GTIs [s]
ontime6	34059.70026207	Sum of GTIs [s]
ontime7	34059.70026207	Sum of GTIs [s]
ontime8	34059.70026207	Sum of GTIs [s]
l2events	358114	Number of level 2 events



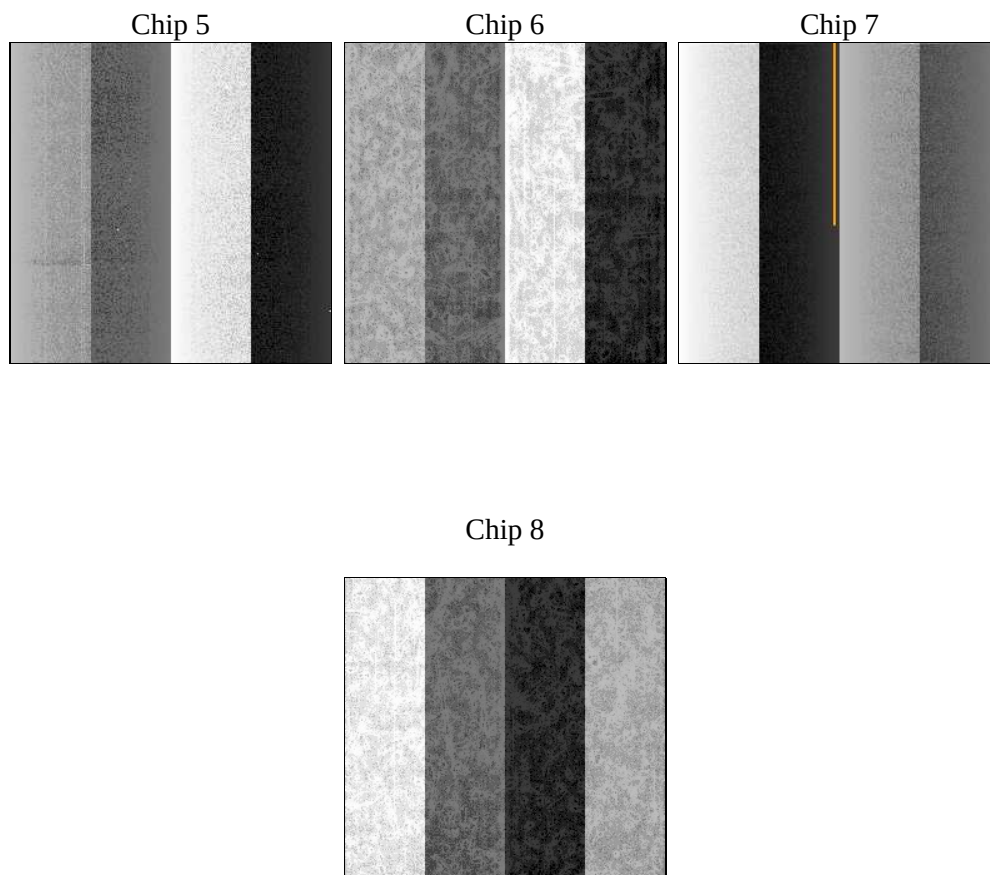
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	34000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	34059.70026207	Sum of GTIs [s]
caldsver	4.7.3	 	ontime5	34059.70026207	Sum of GTIs [s]
date	2017-02-27T06:20:41	Date and time of file creation	ontime6	34059.70026207	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	34059.70026207	Sum of GTIs [s]
			ontime8	34059.70026207	Sum of GTIs [s]
			l1events	1277532	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	396894	251294	314089	315255
rejected events	201218	224243	177708	235670
rejected %	50%	89%	56%	74%

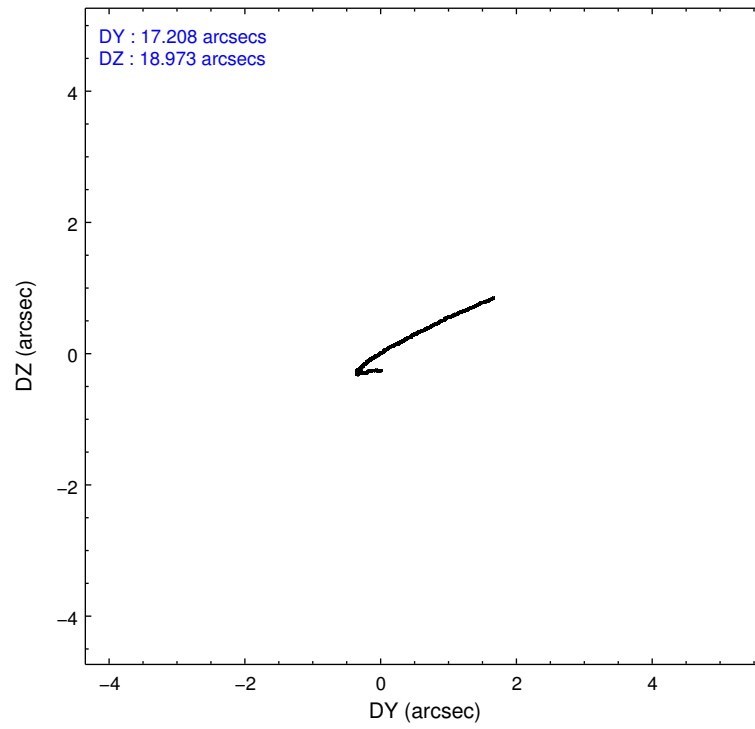
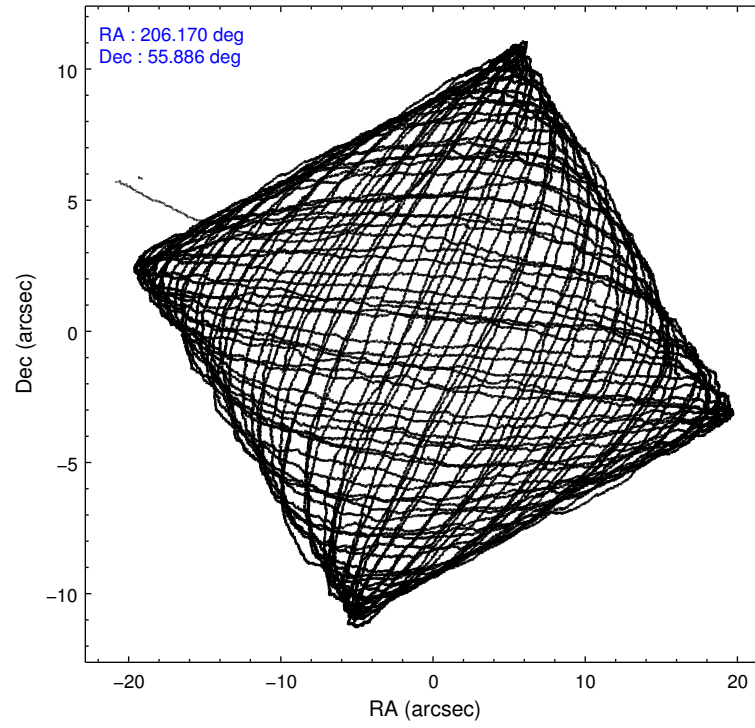
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	21889	8647	11722	22163
	5%	3%	3%	7%
grade 1 events	2081	105	398	269
	0%	0%	0%	0%
grade 2 events	60418	6583	29331	19279
	15%	2%	9%	6%
grade 3 events	5360	2482	10484	8409
	1%	0%	3%	2%
grade 4 events	5326	2552	10082	7912
	1%	1%	3%	2%
grade 5 events	25024	10773	29224	16868
	6%	4%	9%	5%
grade 6 events	102698	6792	74773	21826
	25%	2%	23%	6%
grade 7 events	174098	213360	148075	218529
	43%	84%	47%	69%

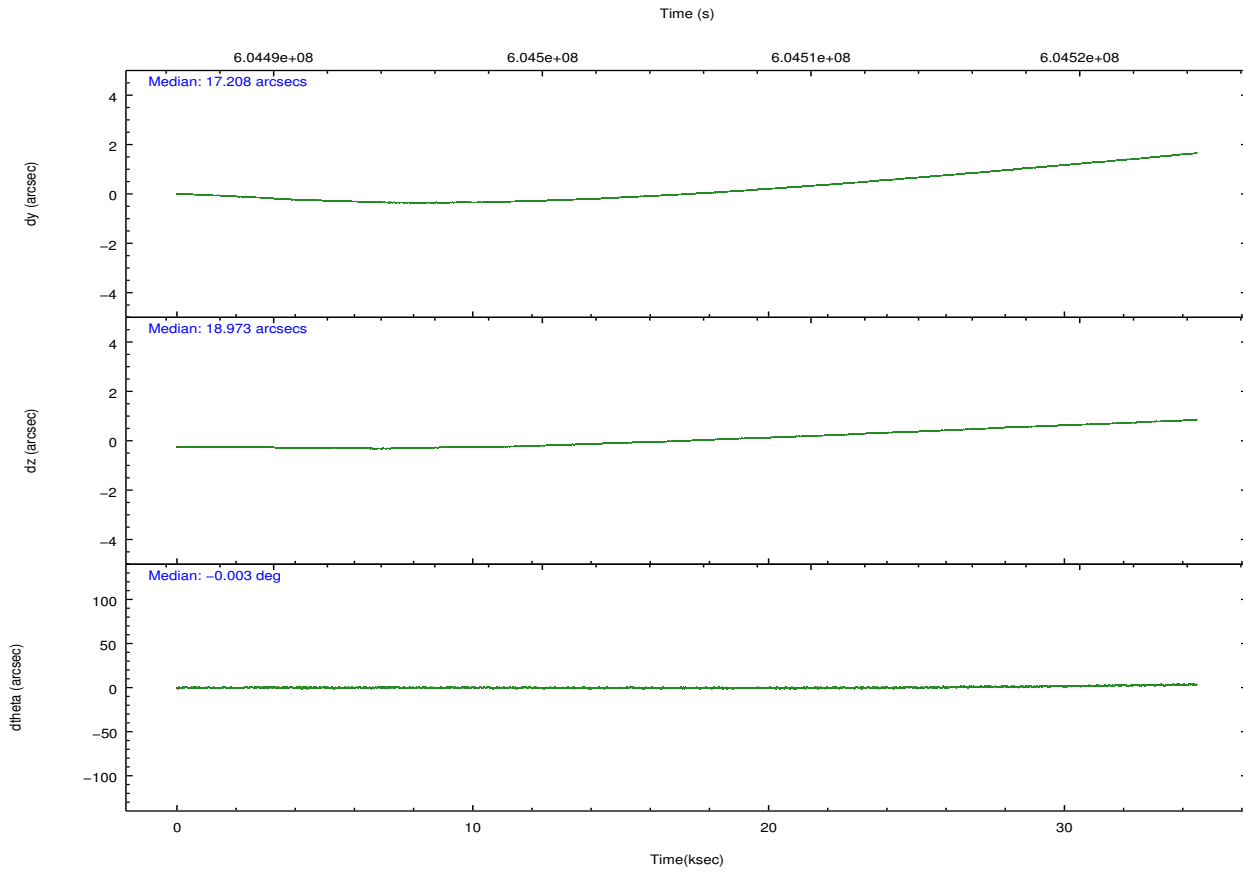
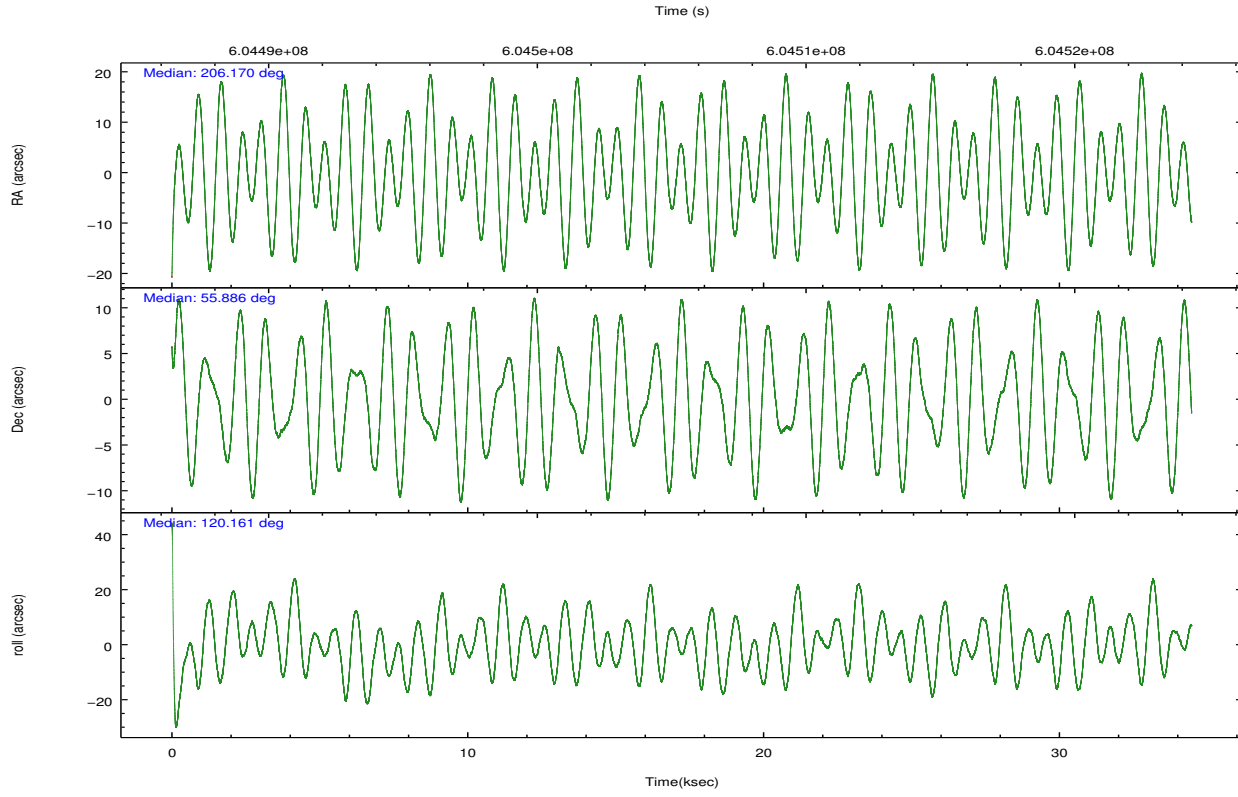
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-5678	ACIS-5678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	206.213044	206.1702821486413
[deg] Pointing Dec	55.873118	55.88648045914988
[deg] Pointing Roll	119.968856	120.1609043306989
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	604488608.184000	604487585.74552
Observation start date	2017-02-26T09:28:59	2017-02-26T09:13:05
[s] Observation end time (MET)	604522608.184000	604523383.8725899
Observation end date	2017-02-26T18:55:39	2017-02-26T19:09:43
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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



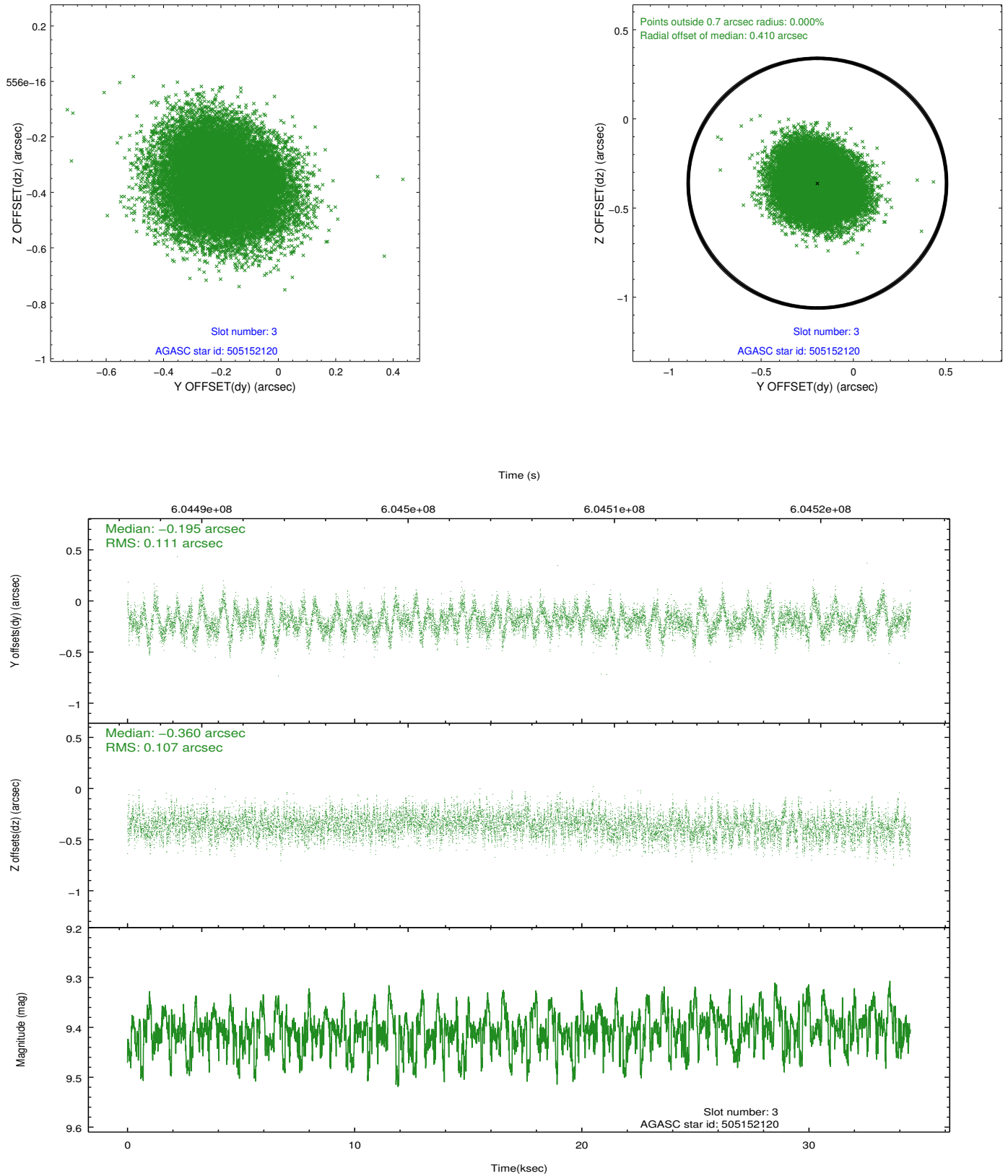


Slot Statistics

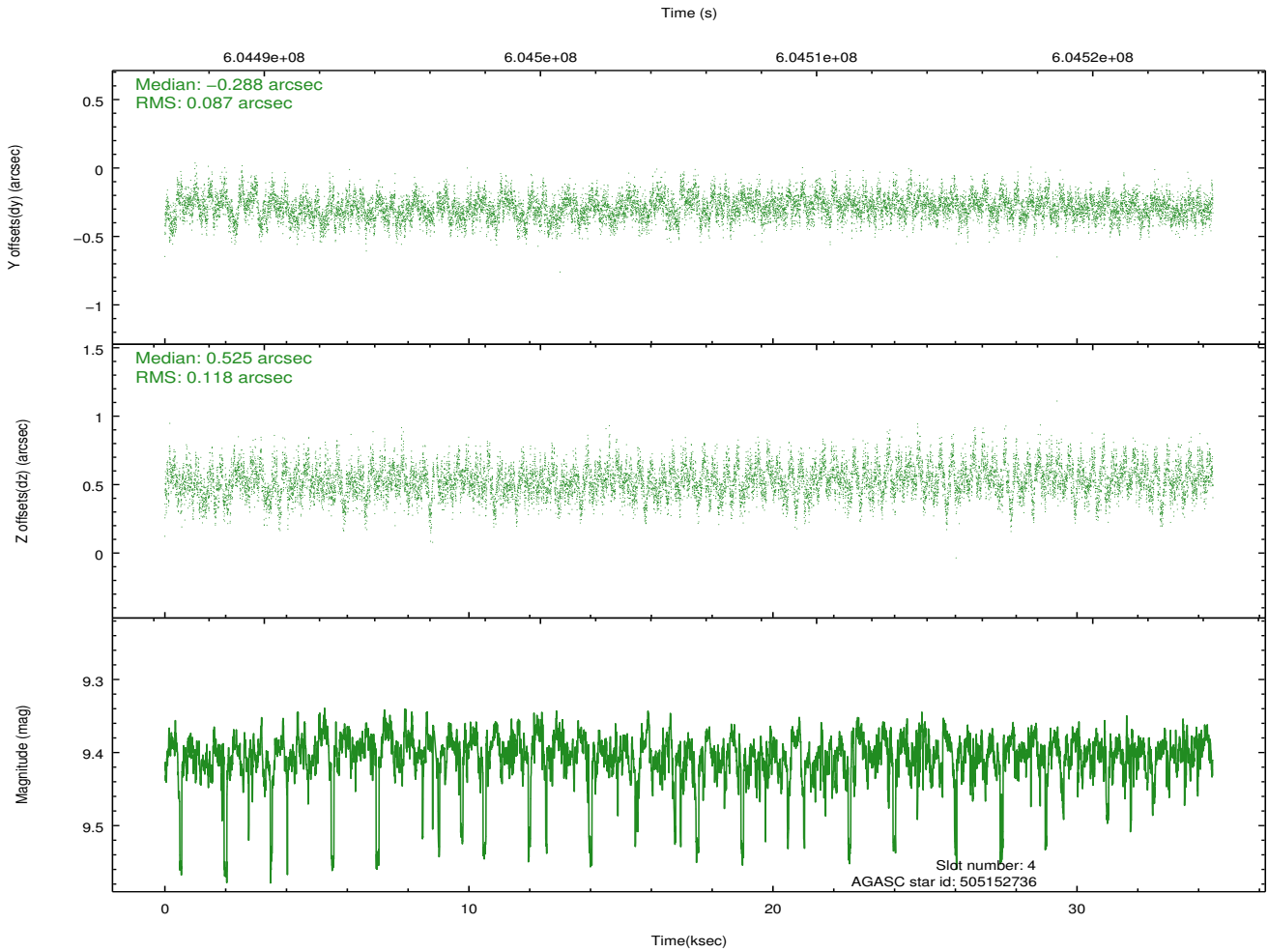
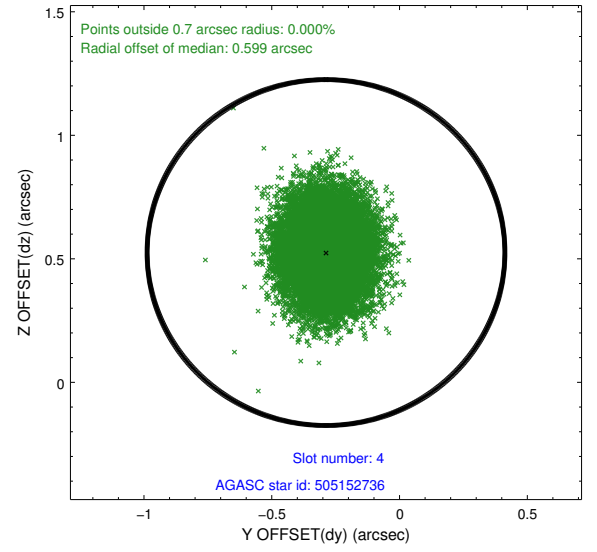
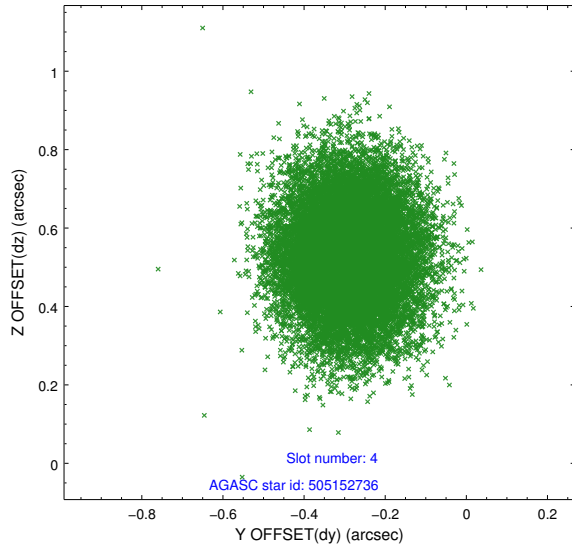
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	8407	-0.298	-0.198	0.019	0.043	0.000000	0.000000	-770.86	-1740.69
1	FID		ACIS-S-4	7.21	8408	0.336	0.168	0.018	0.038	0.000000	0.000000	2143.08	168.05
2	FID		ACIS-S-6	7.35	8408	-0.063	0.033	0.014	0.021	0.000000	0.000000	391.47	805.40
3	GUIDE	used	505152120	9.40	16803	-0.195	-0.360	0.166	0.263	205.411901	56.033893	1315.18	1105.37
4	GUIDE	used	505152736	9.40	16747	-0.288	0.525	0.155	0.254	206.650172	55.777454	-738.23	-595.45
5	GUIDE	used	505159640	9.29	16791	0.479	0.330	0.158	0.257	207.764799	55.675028	-2159.90	-2389.86
6	GUIDE	used	505163008	6.65	16816	0.123	0.009	0.120	0.191	206.305054	55.879347	-79.51	-170.82
7	GUIDE	used	505163040	6.92	16813	-0.128	-0.508	0.112	0.187	206.025637	55.634983	-552.10	757.40

2.4 Star Slots

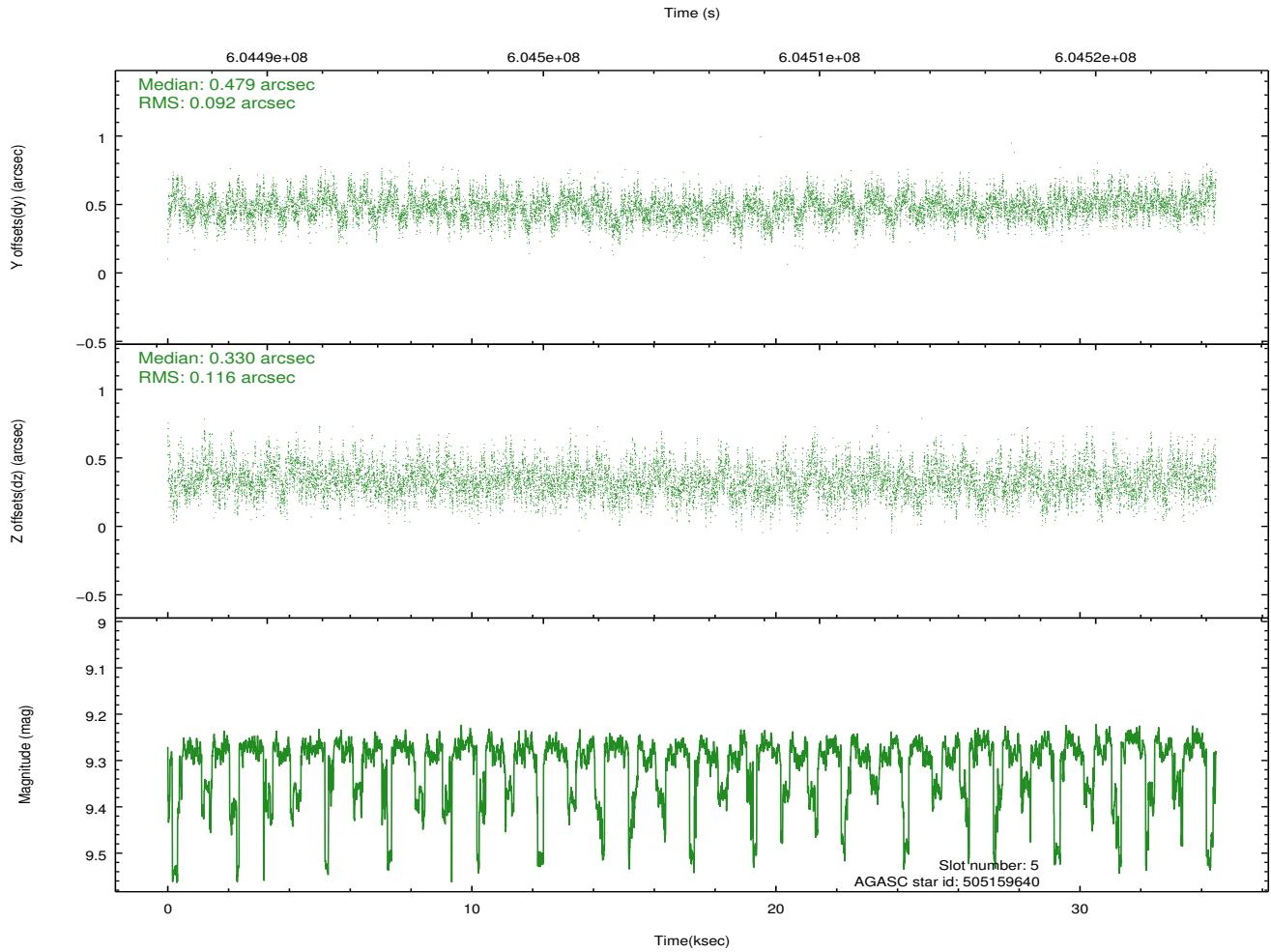
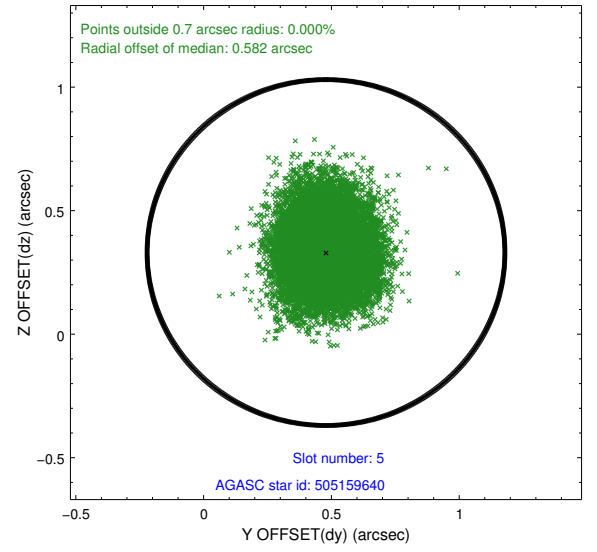
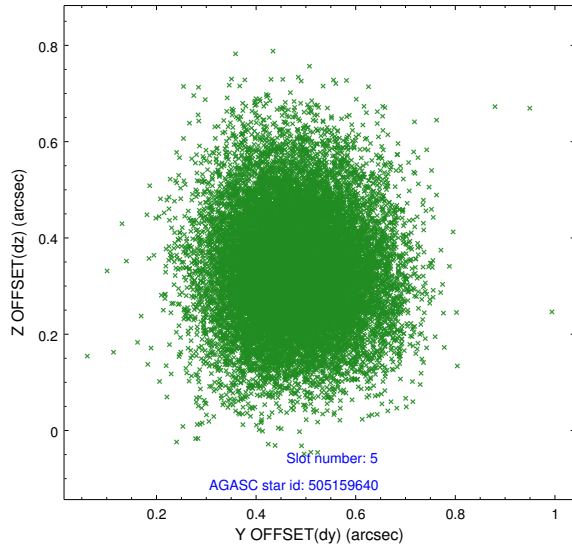
2.4.1 Slot 3



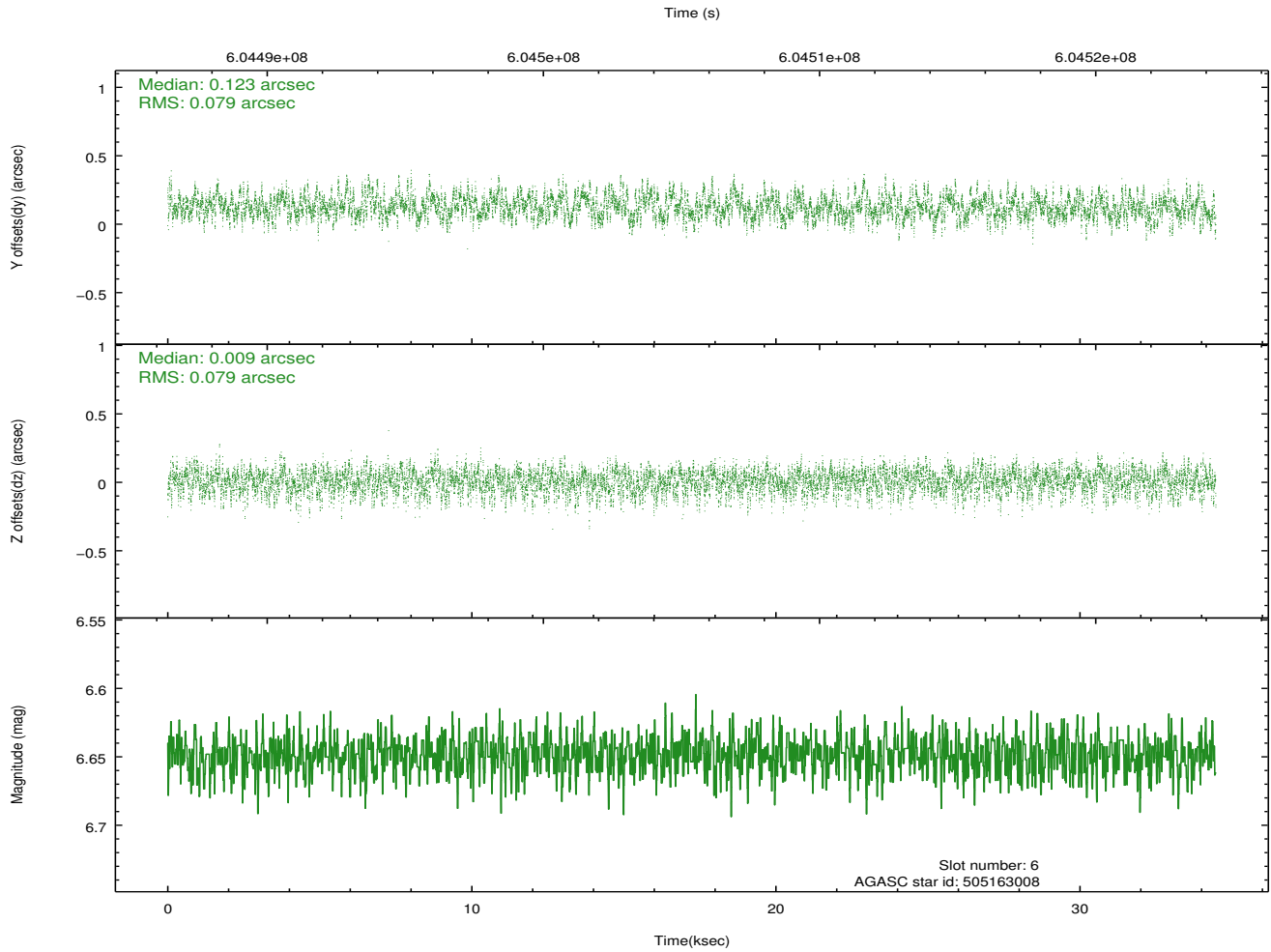
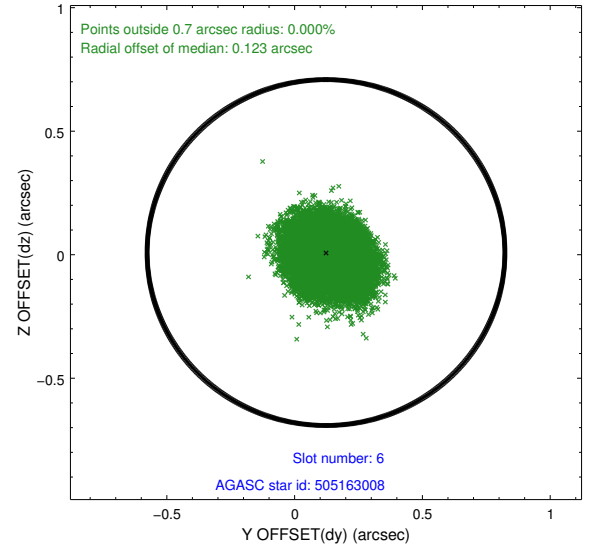
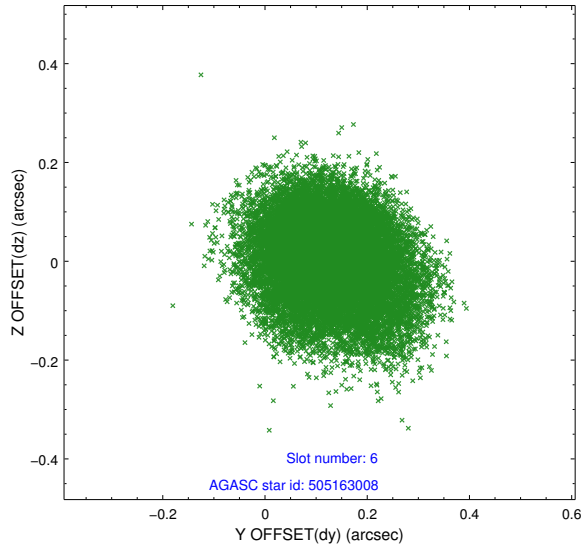
2.4.2 Slot 4



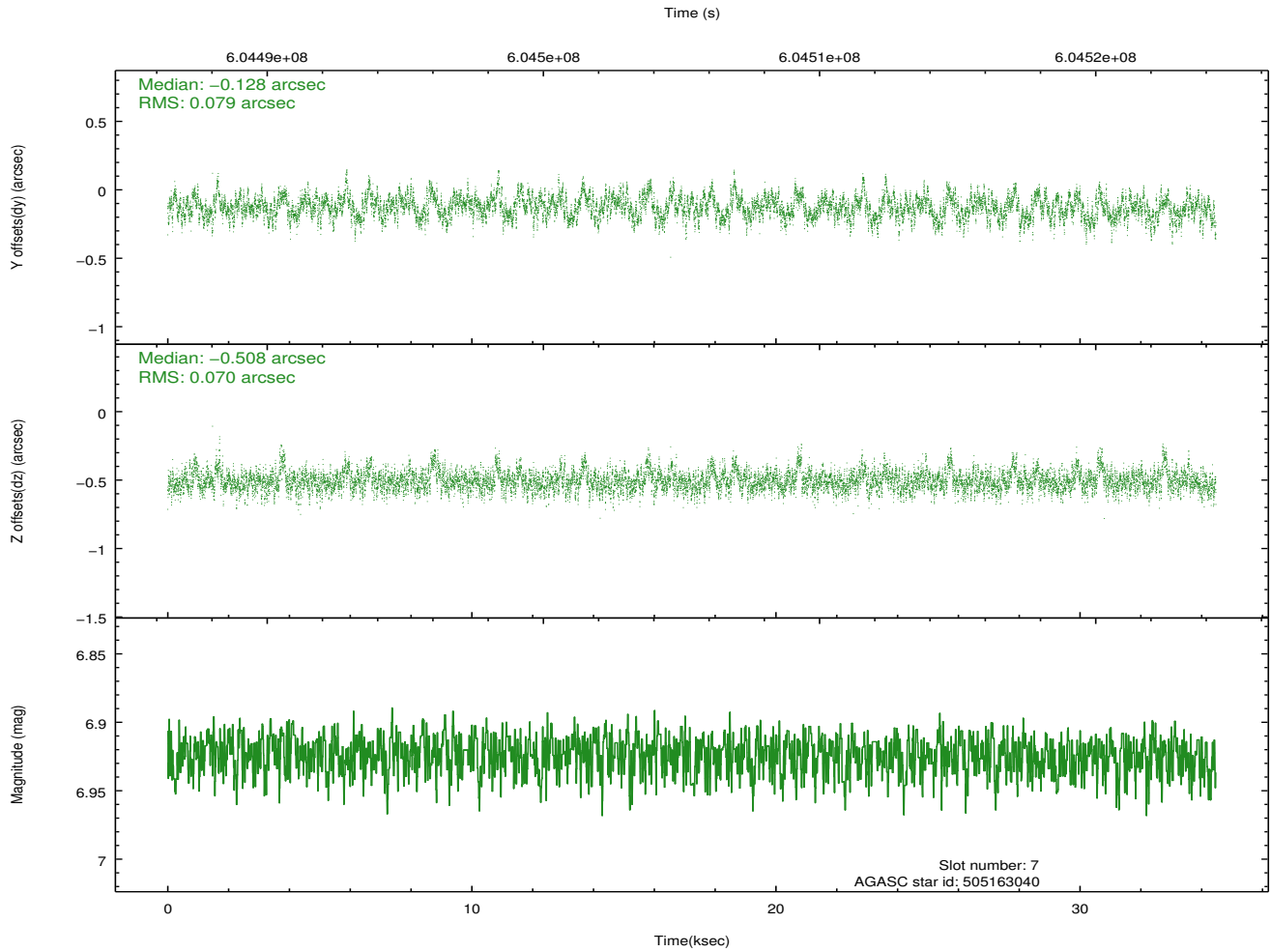
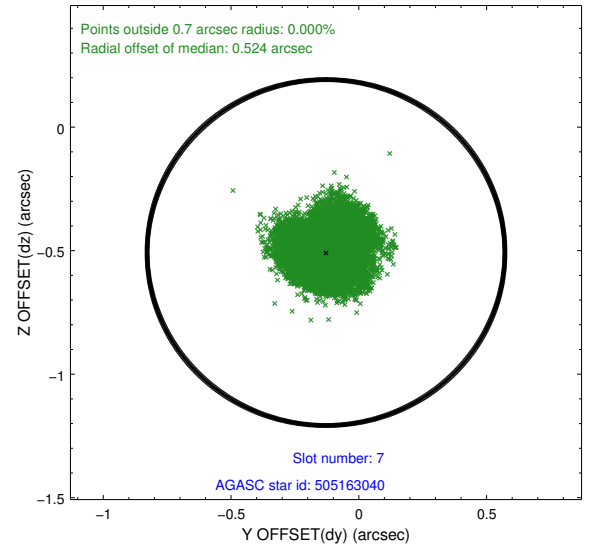
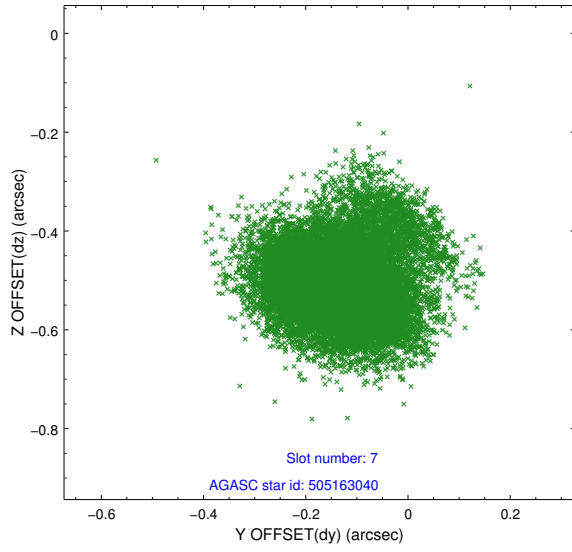
2.4.3 Slot 5



2.4.4 Slot 6

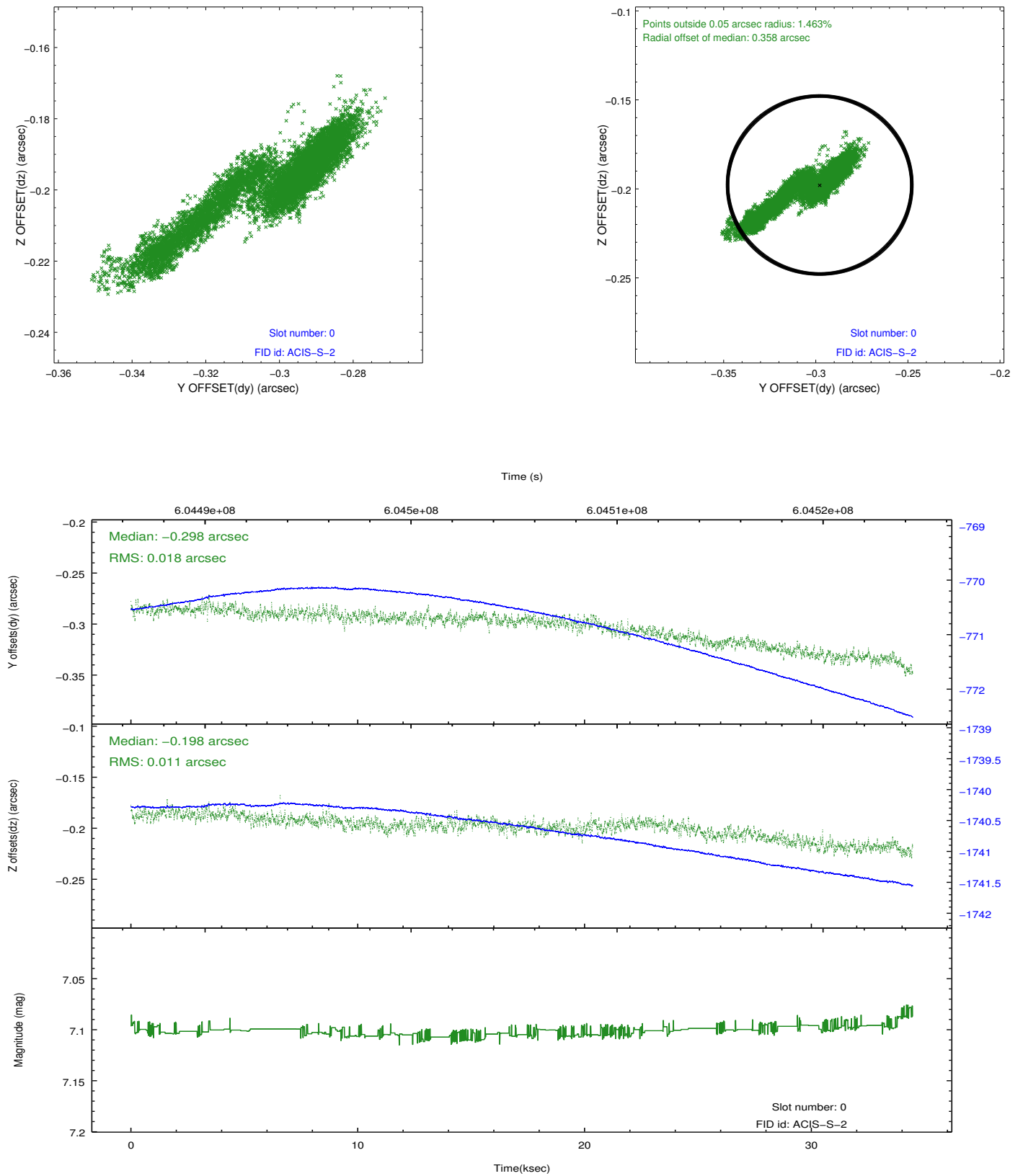


2.4.5 Slot 7

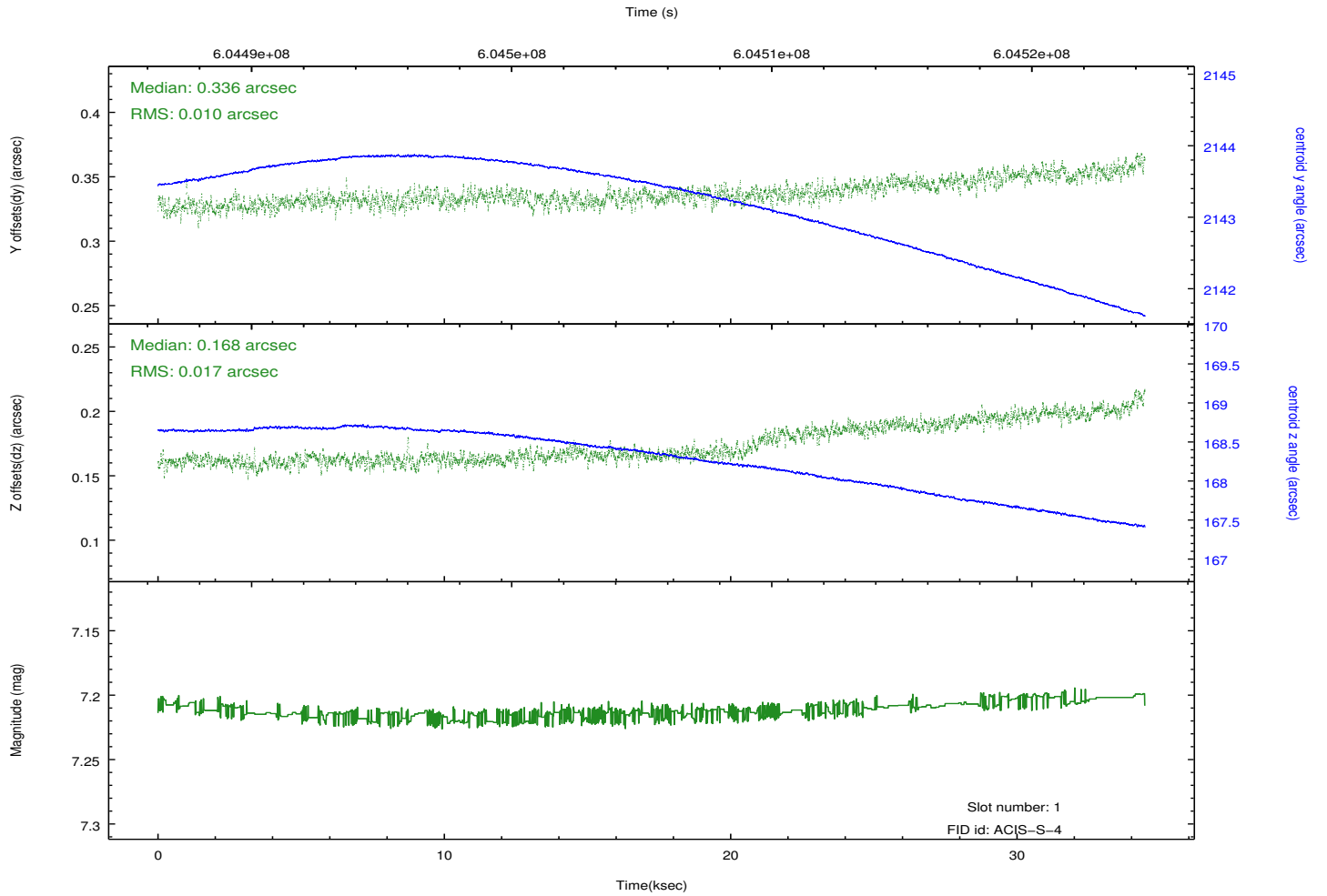
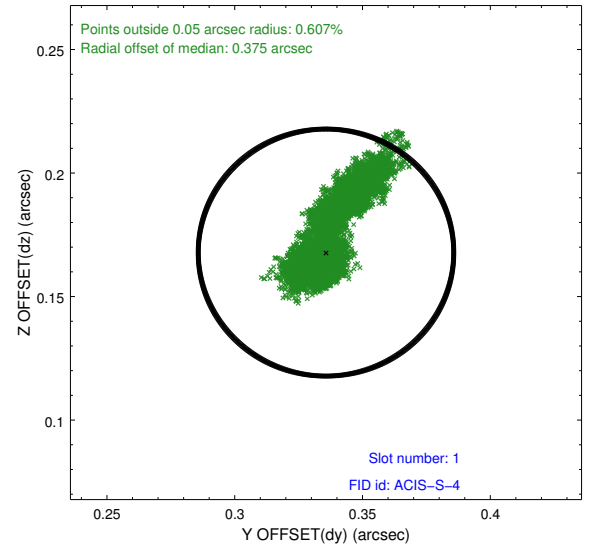
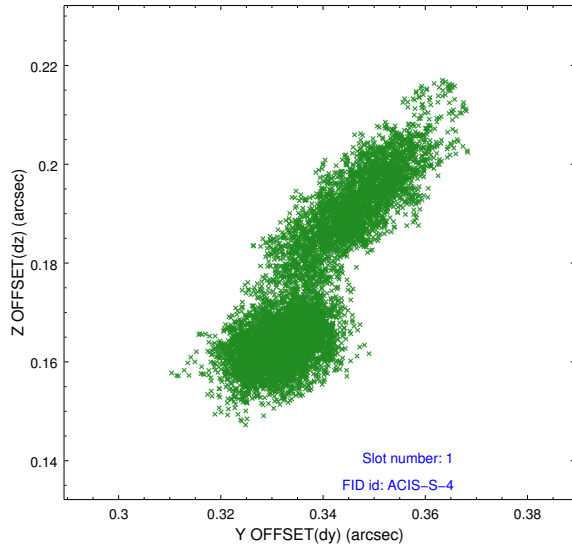


2.5 FID Slots

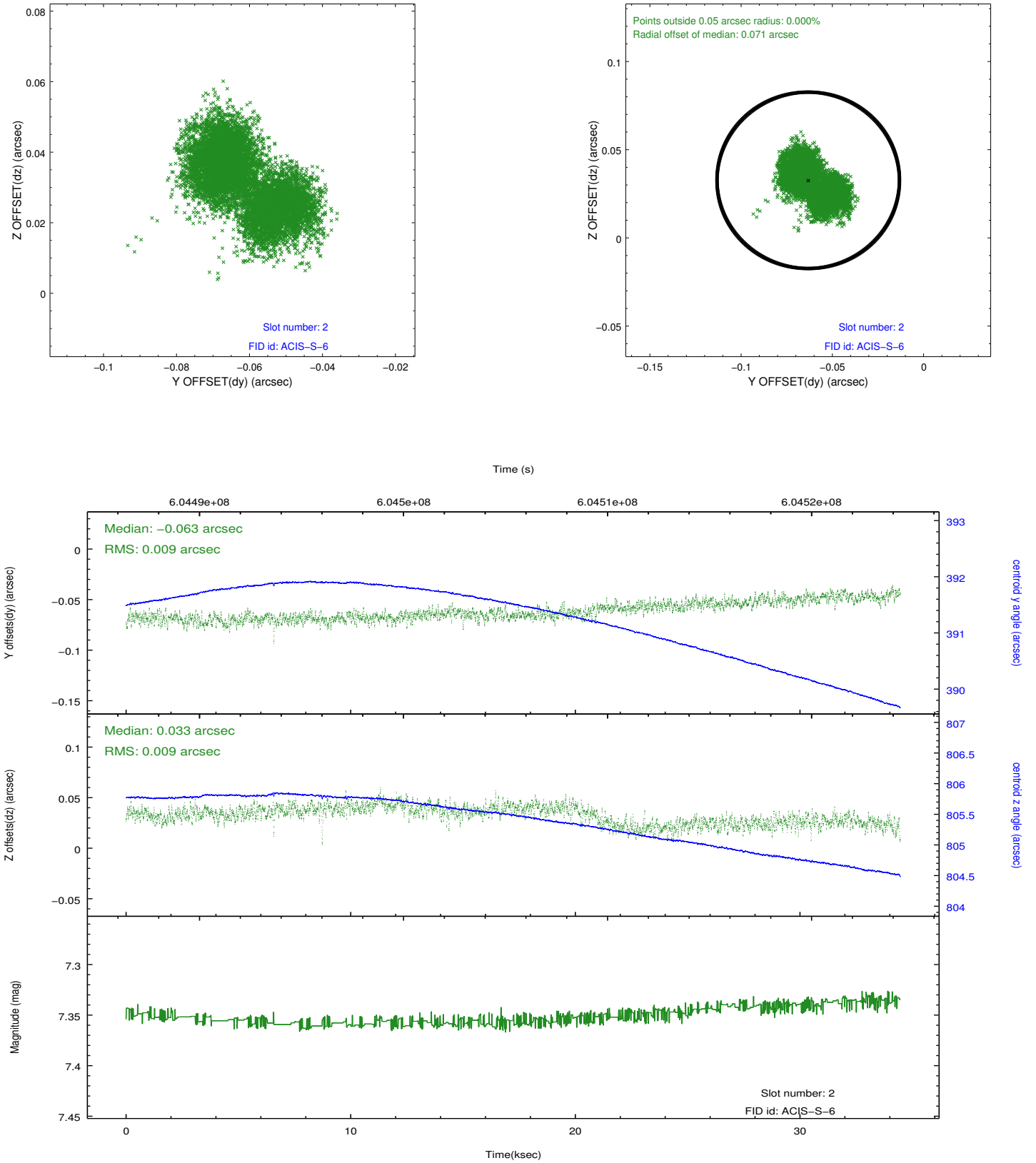
2.5.1 Slot 0



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)	2017.02.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	34.05970026207

A.2 Comments