

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18321 - L2 Version 1
Chandra X-Ray Center

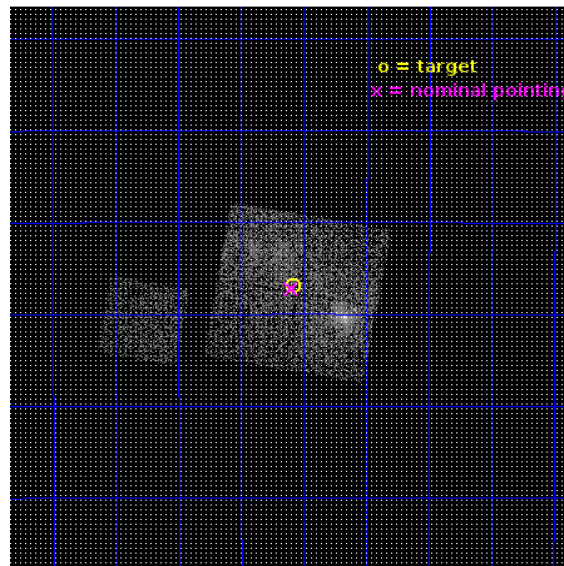
L2 Processing Date : Jul 15 2016

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1 Front

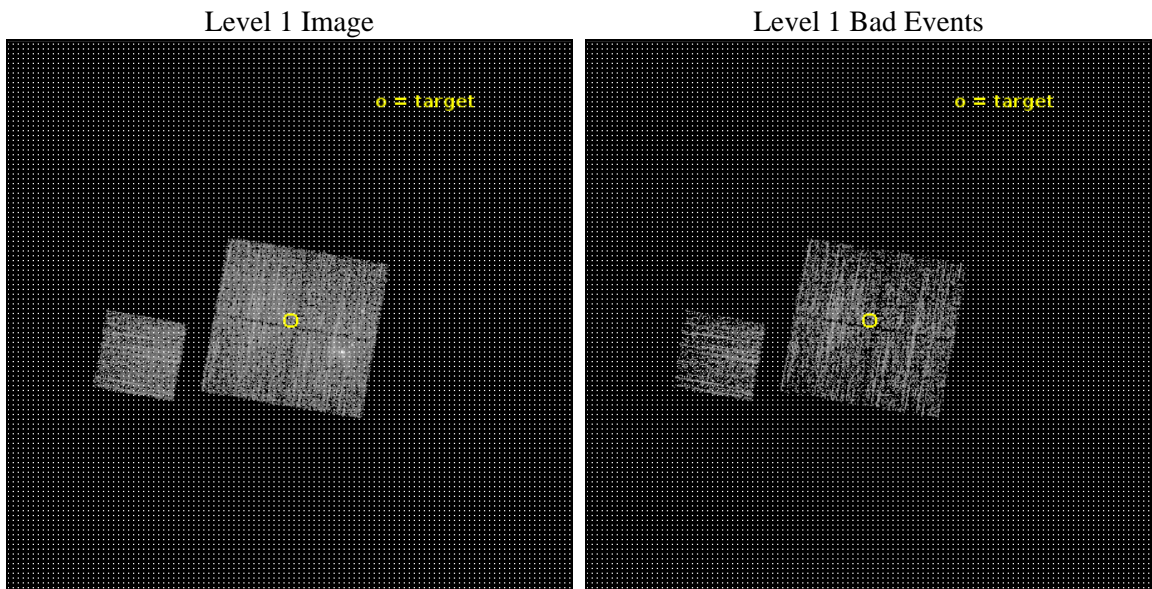
seq_num	300352	Sequence number
obs_id	18321	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.52042	Observer's specified target RA [deg]
dec_targ	-28.94834	Observer's specified target Dec [deg]
ra_nom	266.52456227675	Nominal RA [deg]
dec_nom	-28.954107494734	Nominal Dec [deg]
roll_nom	280.06252964756	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2077.0000160933	Sum of GTIs [s]
livetime	2049.8624818178	Livetime [s]
ontime0	2077.0000160933	Sum of GTIs [s]
ontime1	2077.0000160933	Sum of GTIs [s]
ontime2	2077.0000160933	Sum of GTIs [s]
ontime3	2077.0000160933	Sum of GTIs [s]
ontime6	2073.8590458632	Sum of GTIs [s]
l2events	18043	Number of level 2 events



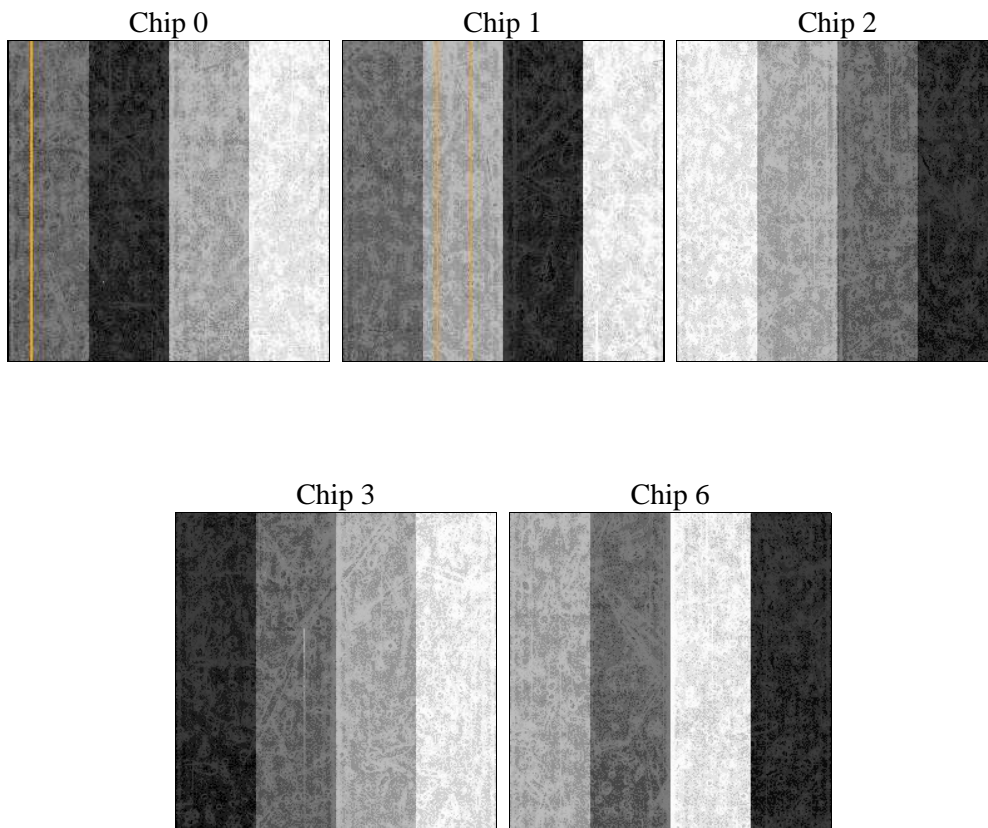
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	2077.0000160933	Sum of GTIs [s]
caldbver	4.7.2	 	ontime0	2077.0000160933	Sum of GTIs [s]
date	2016-07-15T14:33:27	Date and time of file creation	ontime1	2077.0000160933	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	2077.0000160933	Sum of GTIs [s]
			ontime3	2077.0000160933	Sum of GTIs [s]
			ontime6	2073.8590458632	Sum of GTIs [s]
			l1events	74322	Number of level 1 events

2.1.4 Events

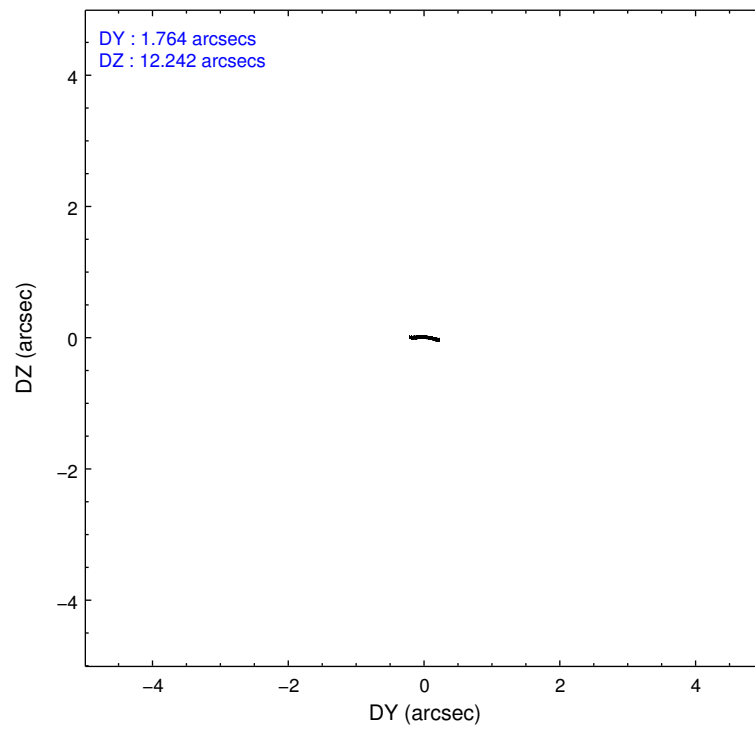
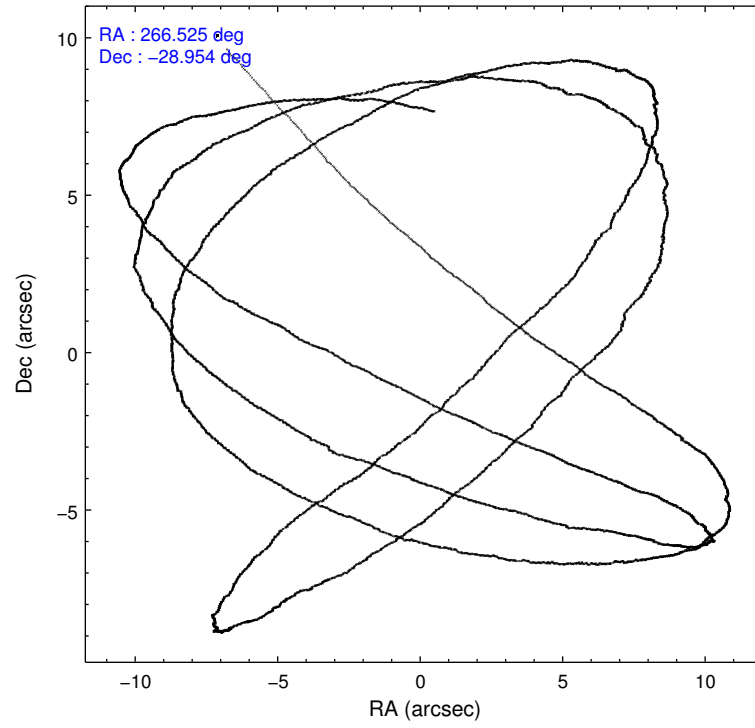
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	17512	13527	14000	16317	12966
rejected events	10575	9730	11211	11802	11025
rejected %	60%	71%	80%	72%	85%

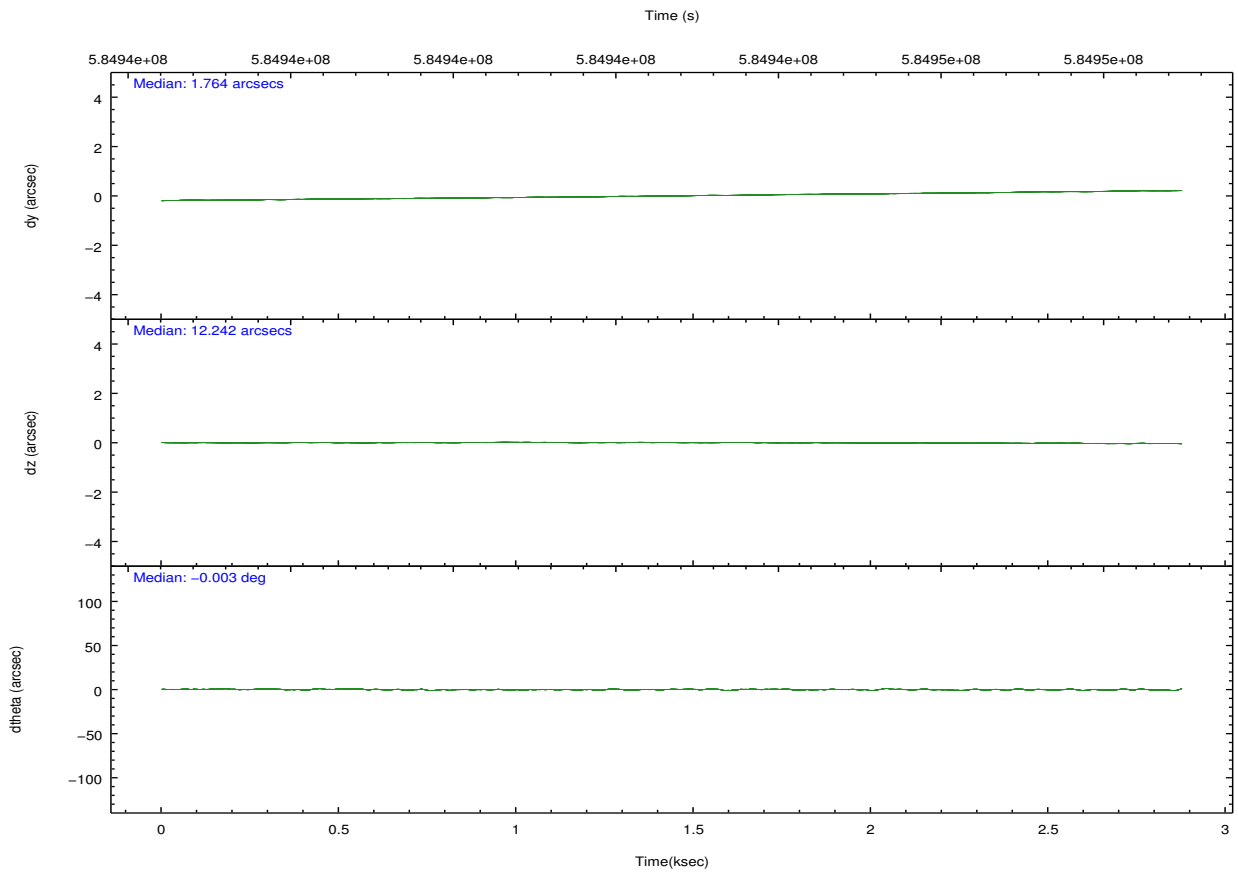
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4226	2088	1455	2744	843
	24%	15%	10%	16%	6%
grade 1 events	45	14	6	17	10
	0%	0%	0%	0%	0%
grade 2 events	1156	708	547	724	418
	6%	5%	3%	4%	3%
grade 3 events	404	251	201	287	160
	2%	1%	1%	1%	1%
grade 4 events	409	231	190	297	179
	2%	1%	1%	1%	1%
grade 5 events	618	600	541	668	638
	3%	4%	3%	4%	4%
grade 6 events	756	523	399	469	345
	4%	3%	2%	2%	2%
grade 7 events	9898	9112	10661	11111	10373
	56%	67%	76%	68%	80%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	266.504127	266.5245622767531	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.933033	-28.95410749473387	CCD I3 on	Y	Y
[deg] Pointing Roll	279.843844	280.0625296475575	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	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	584944110.184000	584942184.54292	CCD S5 on	N	N
Observation start date	2016-07-15T04:27:22	2016-07-15T03:56:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	584946110.184000	584946244.05566	On-chip summing requested	N	N
Observation end date	2016-07-15T05:00:42	2016-07-15T05:04:04	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





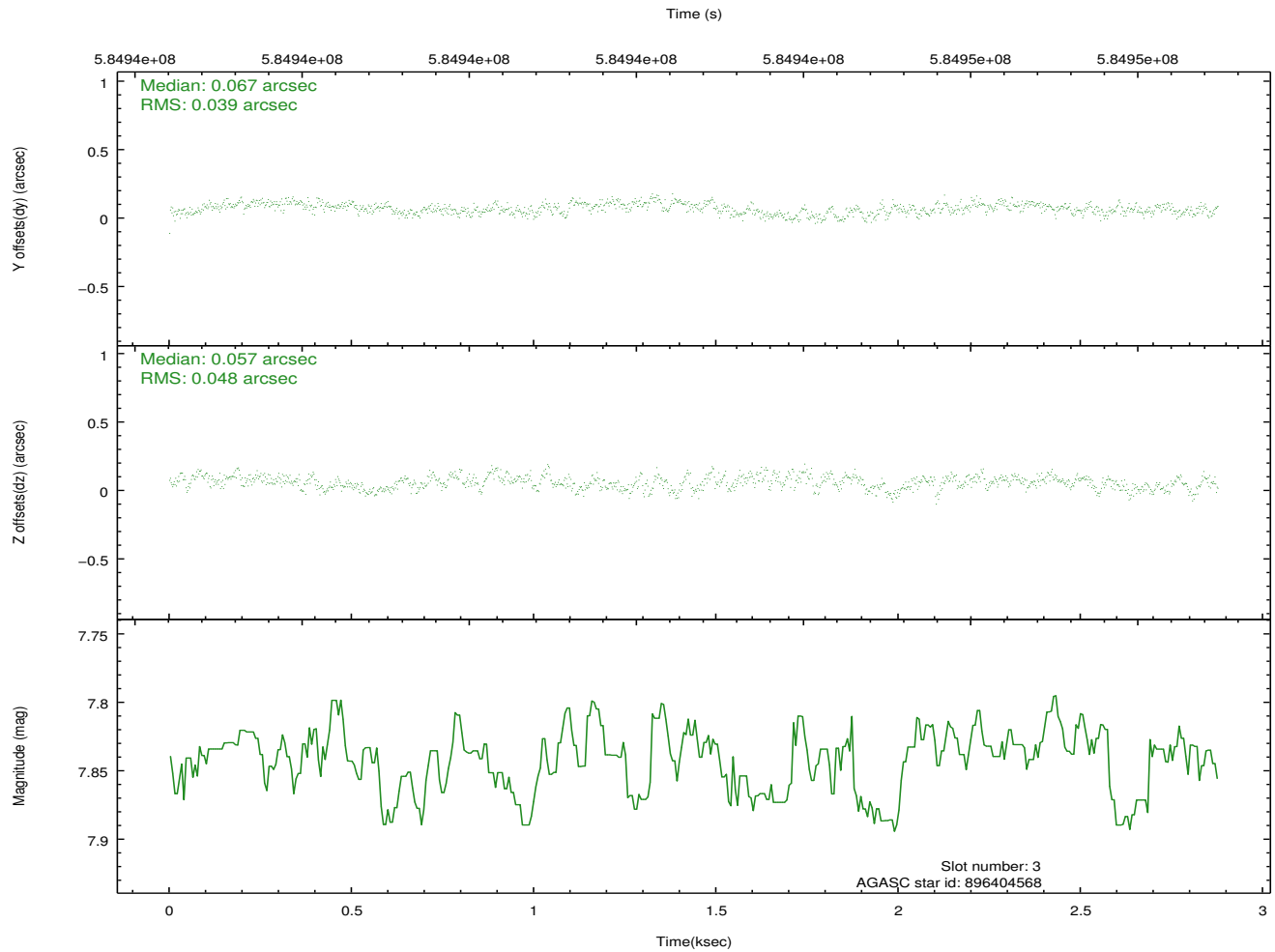
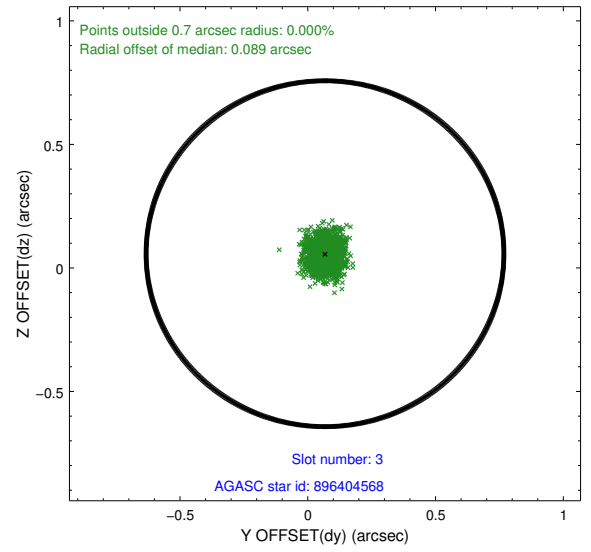
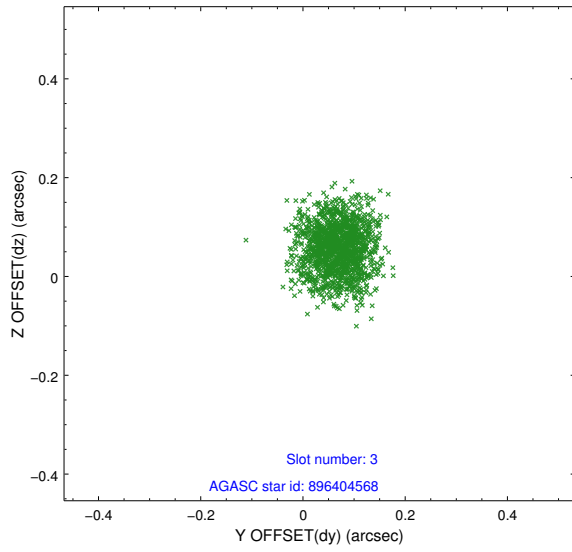
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.23	702	0.143	-0.085	0.008	0.014	0.000000	0.000000	938.20	-835.85
1	FID		ACIS-I-5	7.21	702	-0.273	0.126	0.006	0.011	0.000000	0.000000	-1809.10	1060.70
2	FID		ACIS-I-6	7.23	702	0.040	0.029	0.007	0.013	0.000000	0.000000	401.20	1707.66
3	GUIDE	used	896404568	7.84	1404	0.067	0.057	0.067	0.104	265.687293	-28.431080	-2213.72	-2240.58
4	GUIDE	used	896533888	7.01	1404	-0.018	-0.180	0.066	0.110	266.666434	-29.392757	1716.56	216.66
5	GUIDE	used	896538208	7.94	1404	-0.340	-0.271	0.073	0.116	267.176969	-28.671626	-556.92	2253.56
6	GUIDE	used	896538696	6.79	1404	-0.096	0.137	0.058	0.098	266.298470	-28.325572	-2265.91	-266.72
7	GUIDE	used	896536400	8.53	1402	0.386	0.263	0.096	0.150	267.359146	-29.438655	2260.34	2328.31

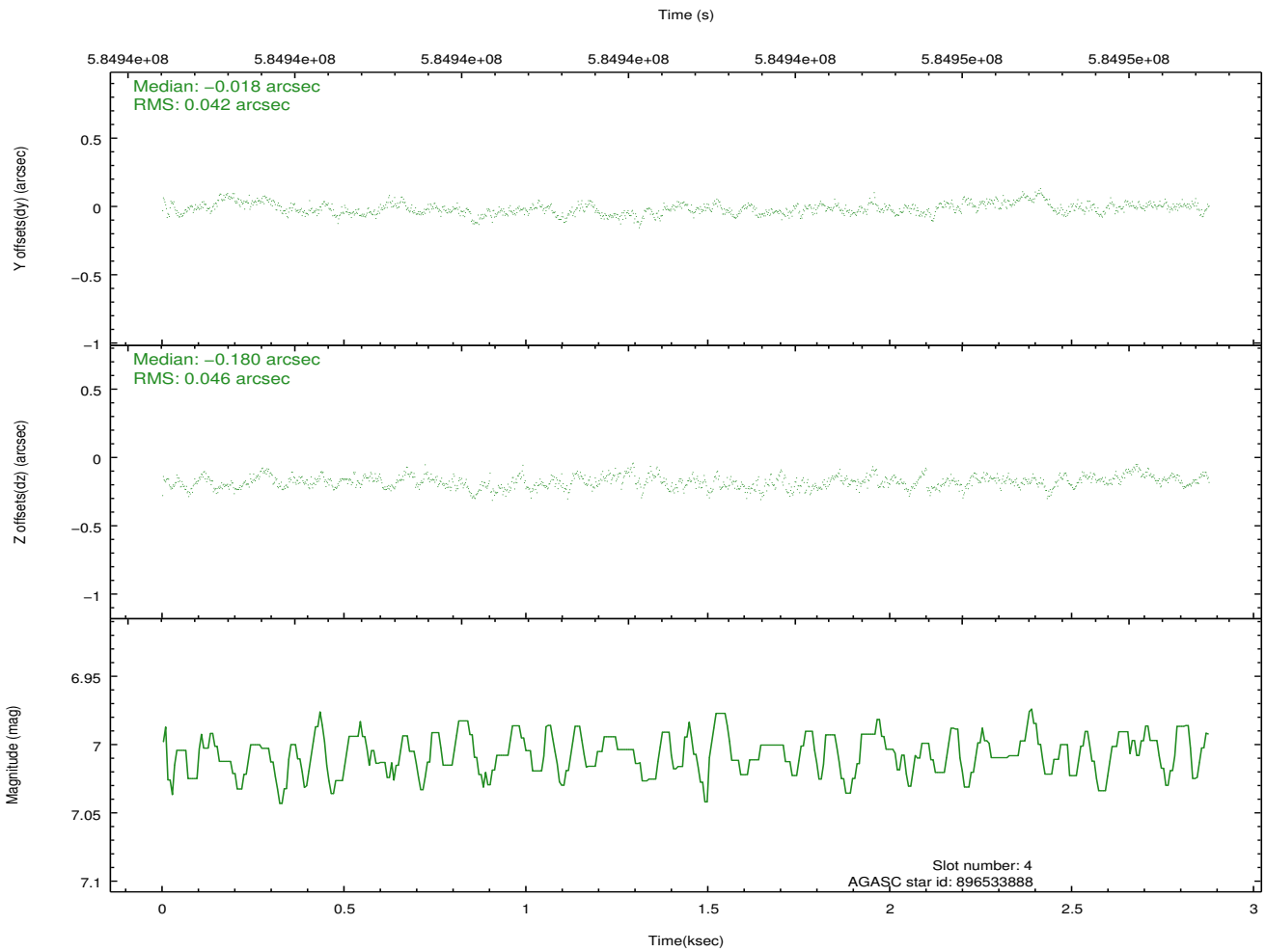
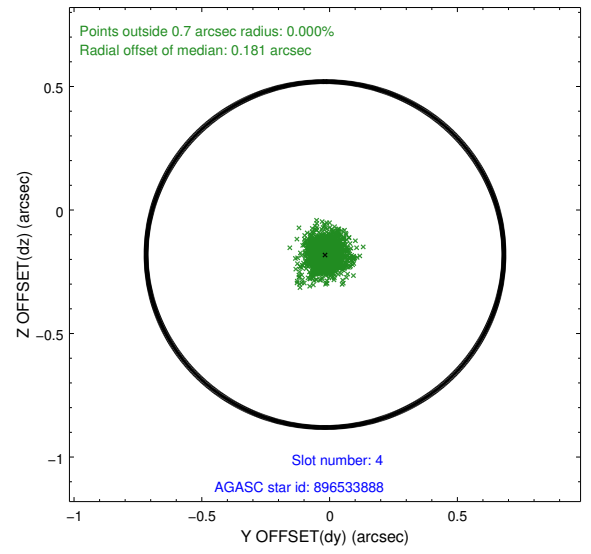
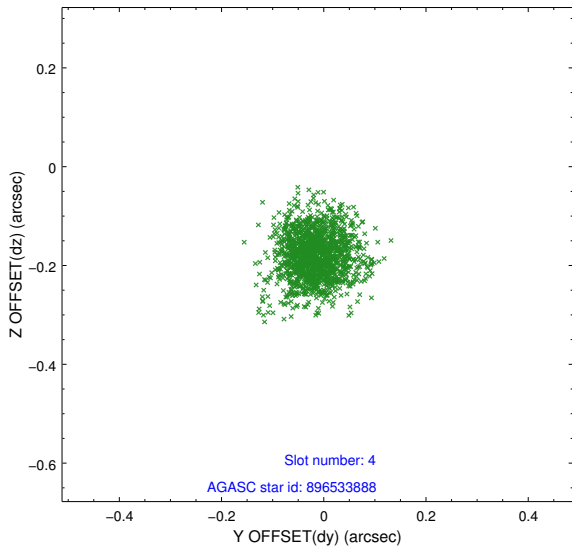
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2.4 Star Slots

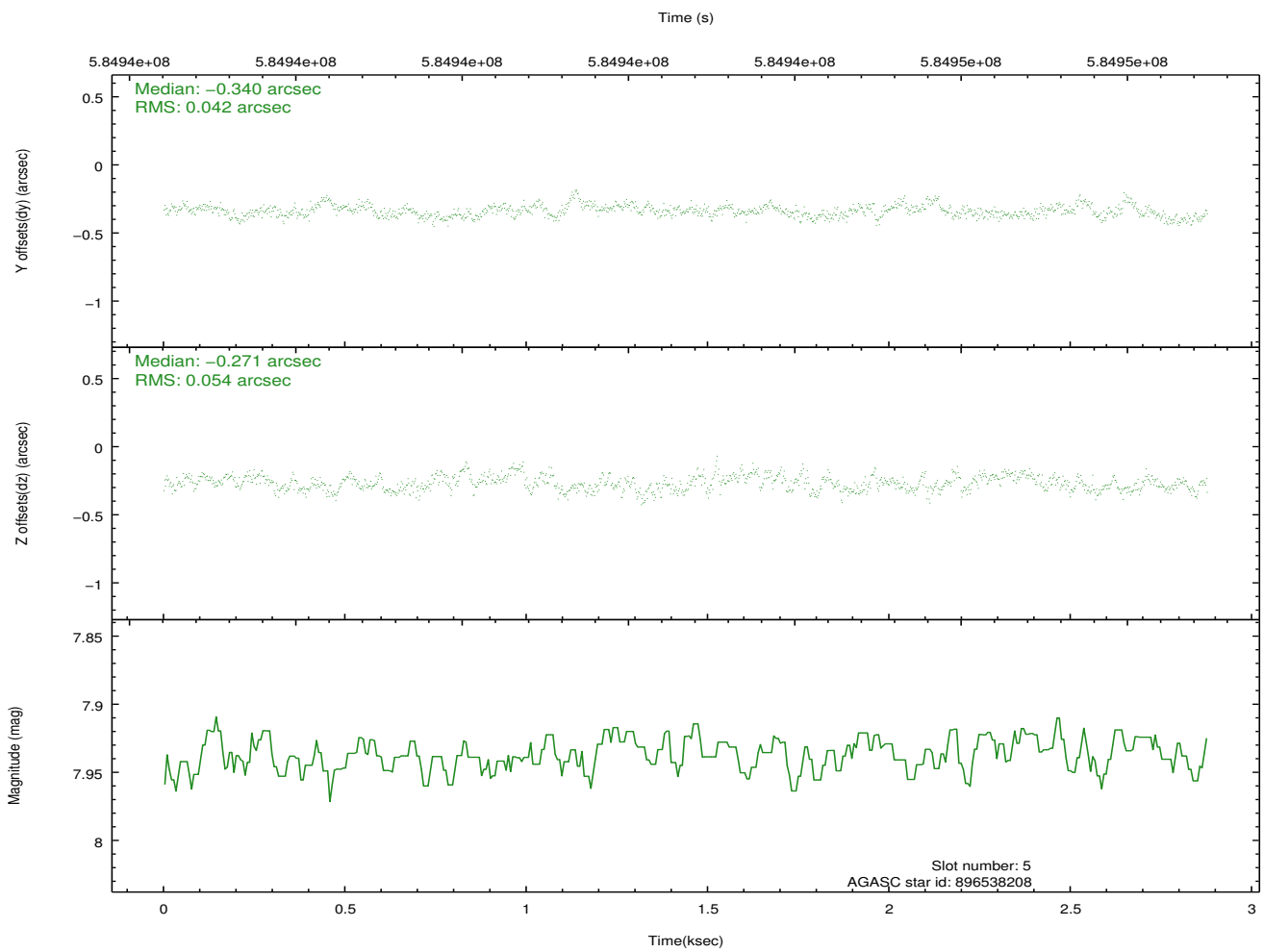
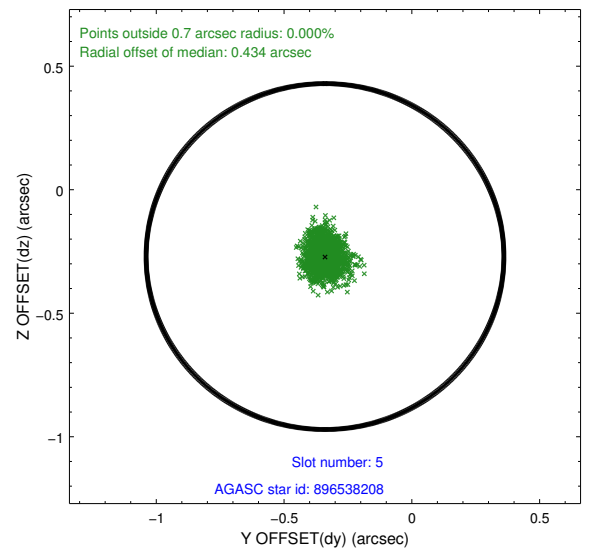
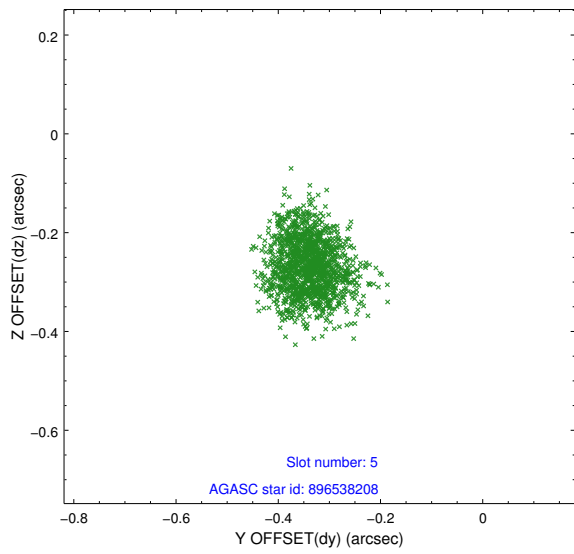
2.4.1 Slot 3



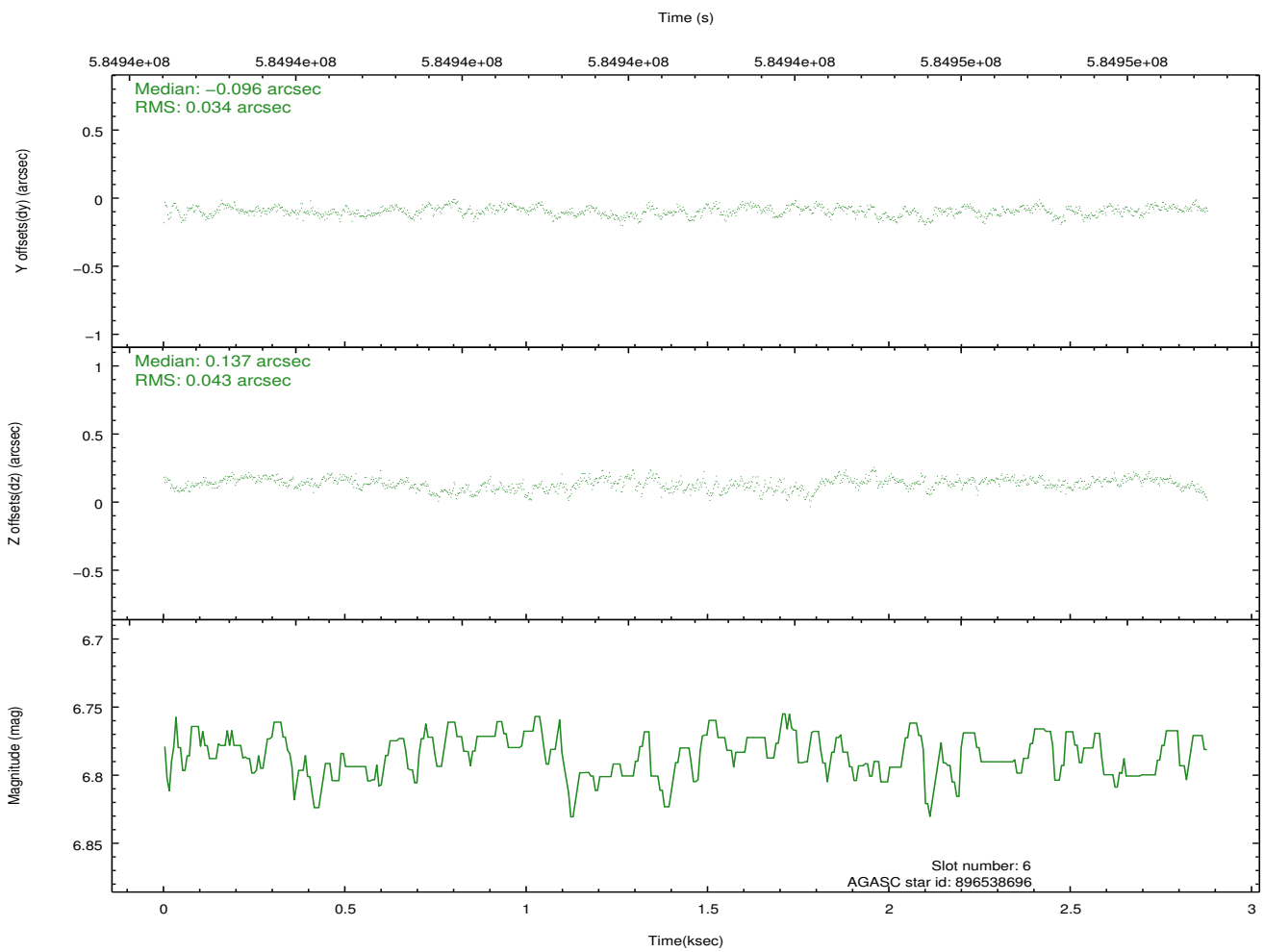
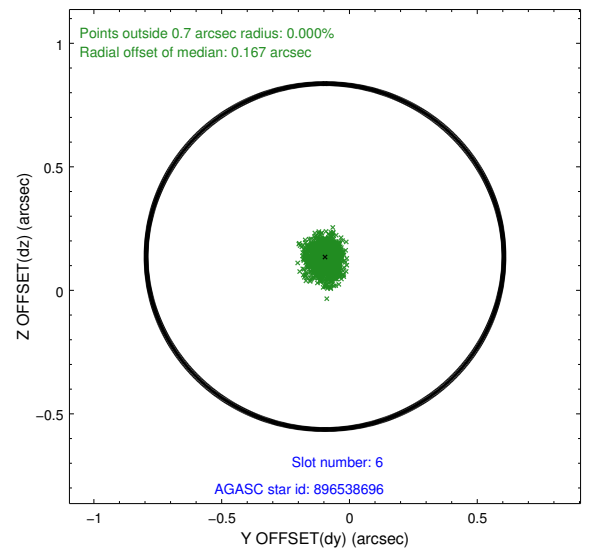
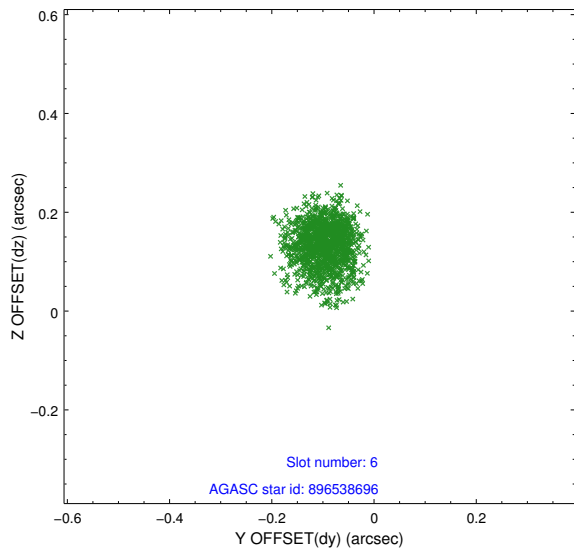
2.4.2 Slot 4



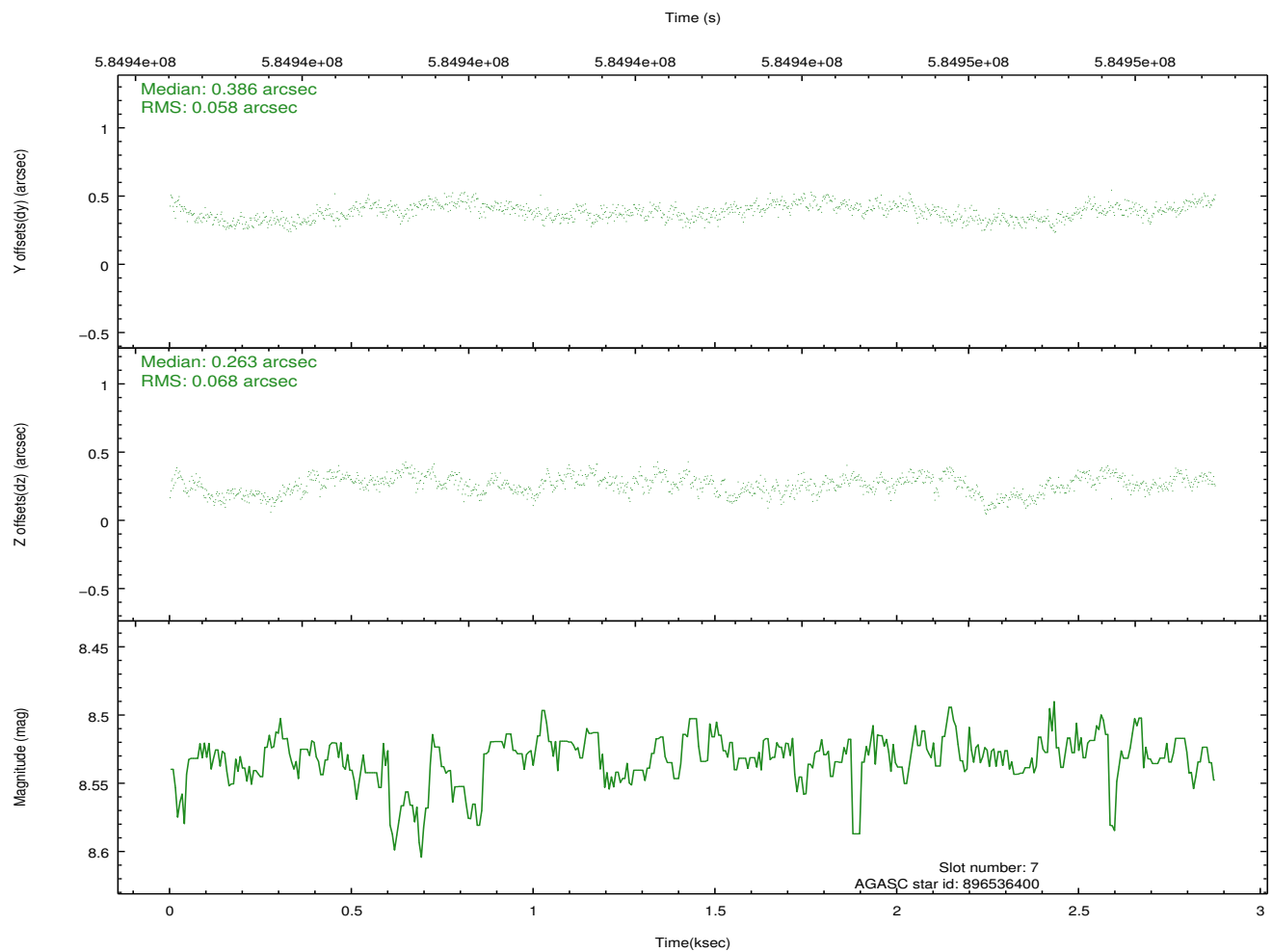
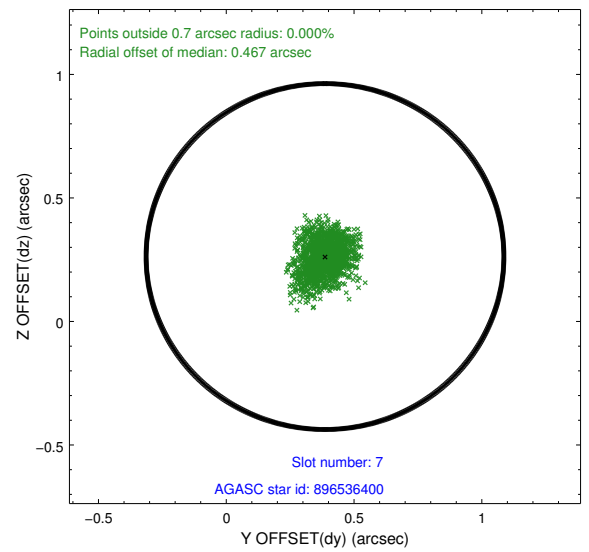
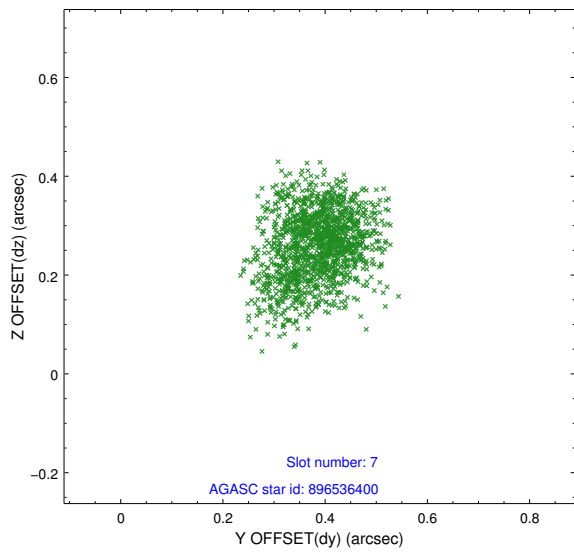
2.4.3 Slot 5



2.4.4 Slot 6

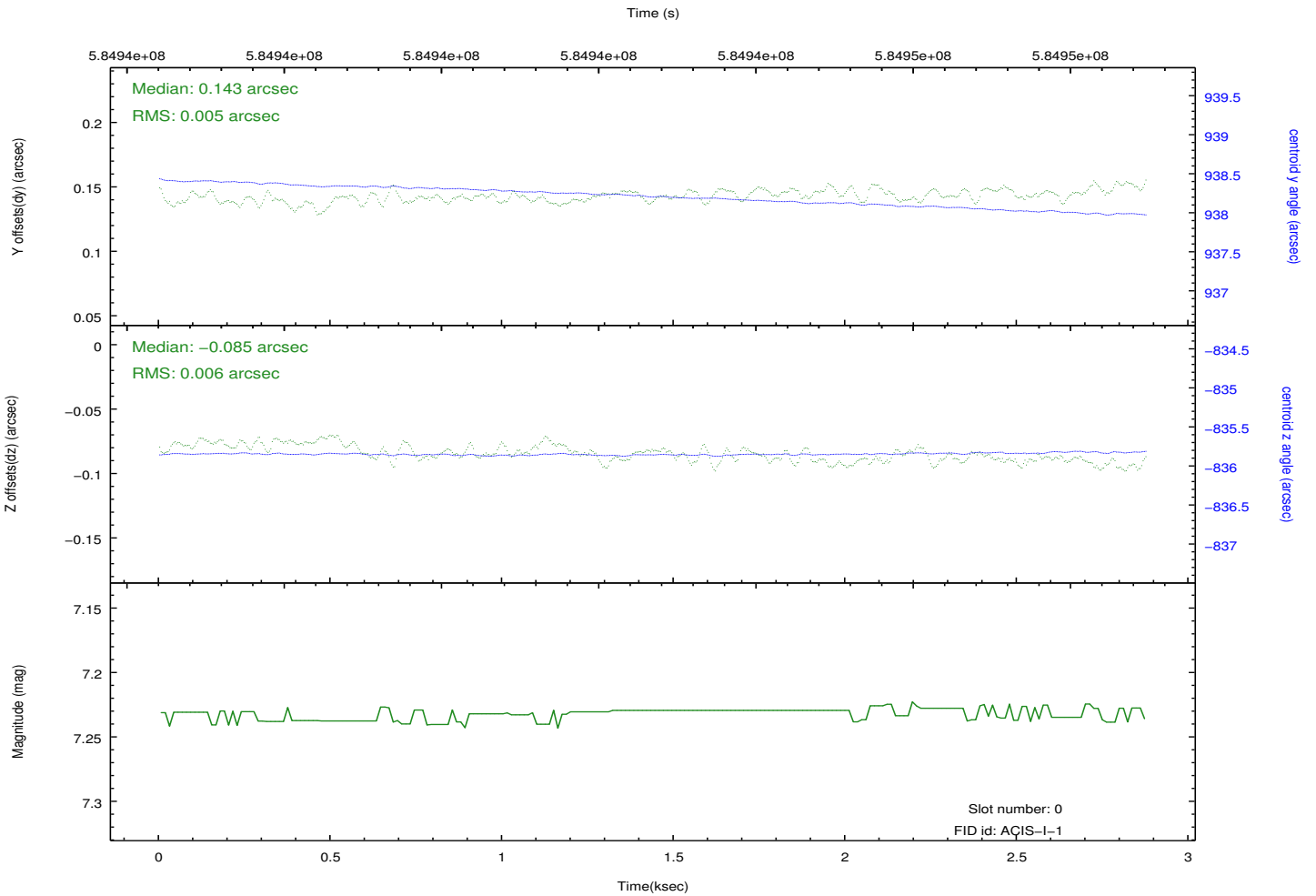
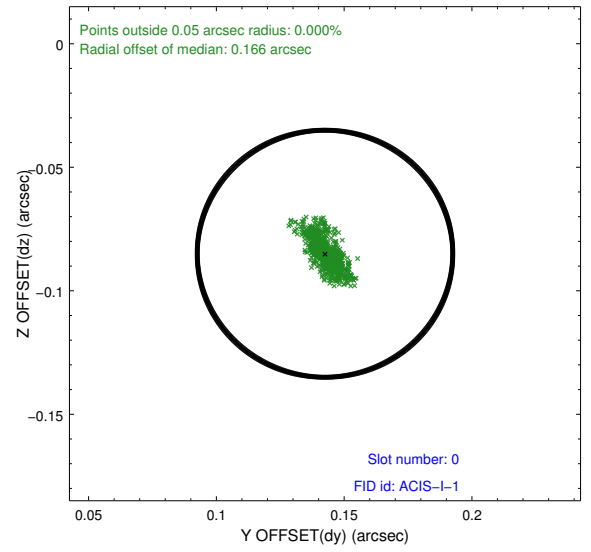
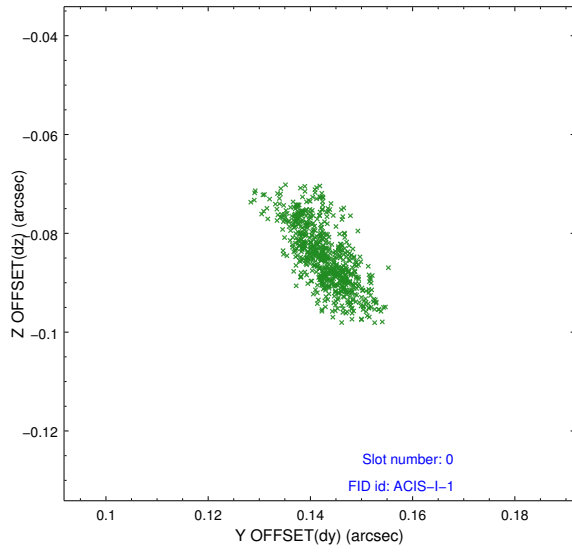


2.4.5 Slot 7

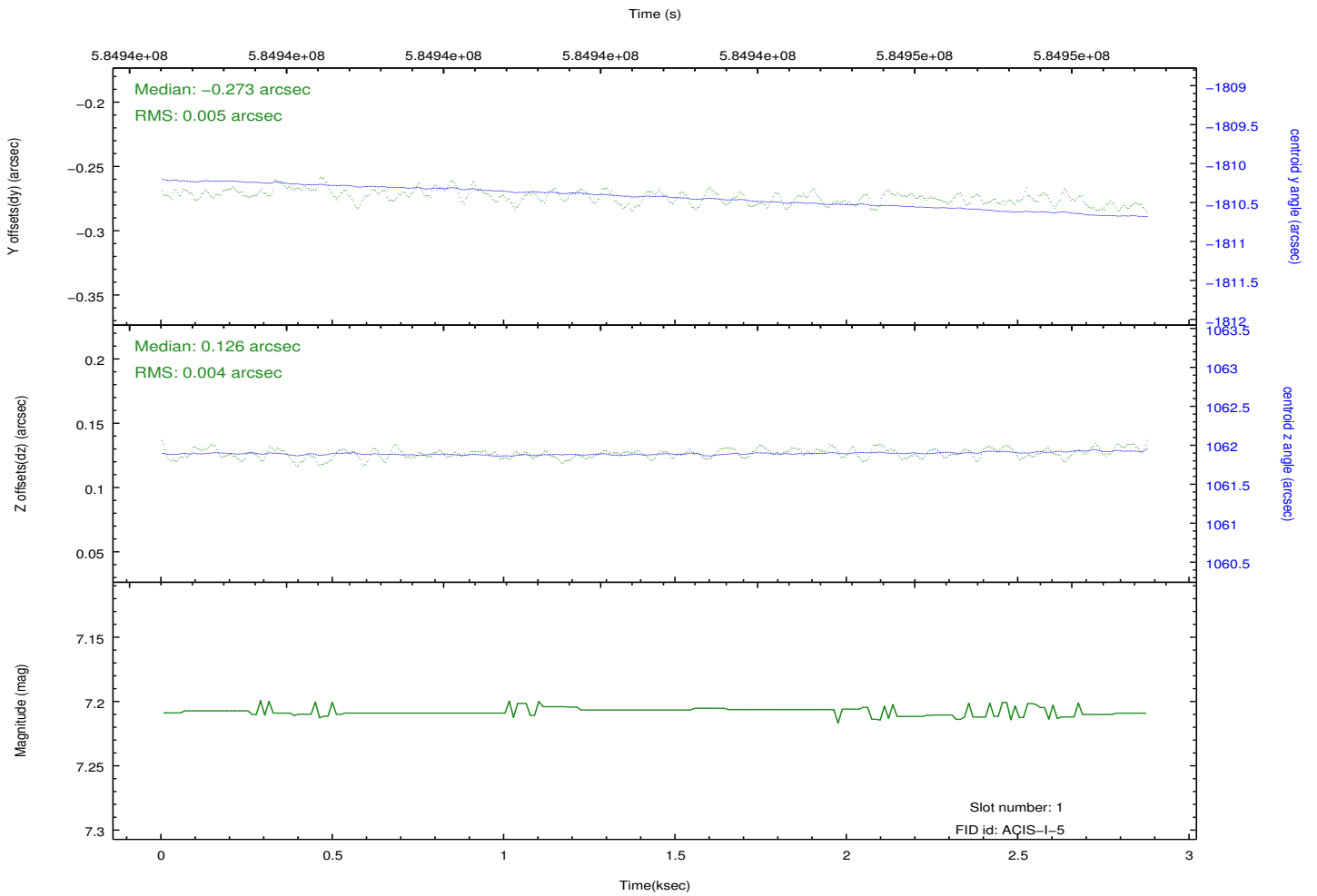
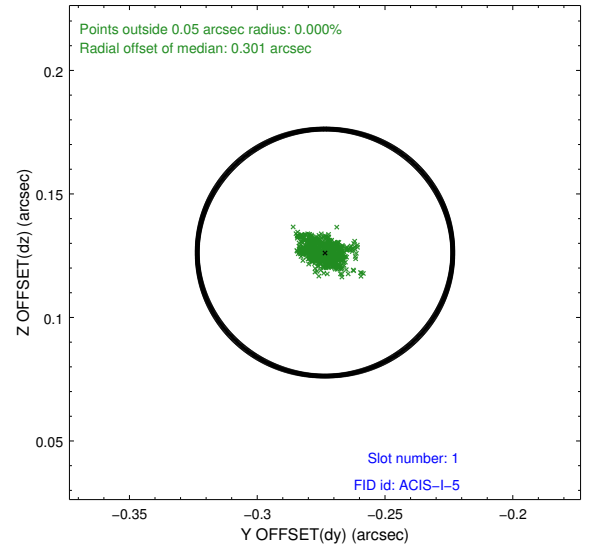
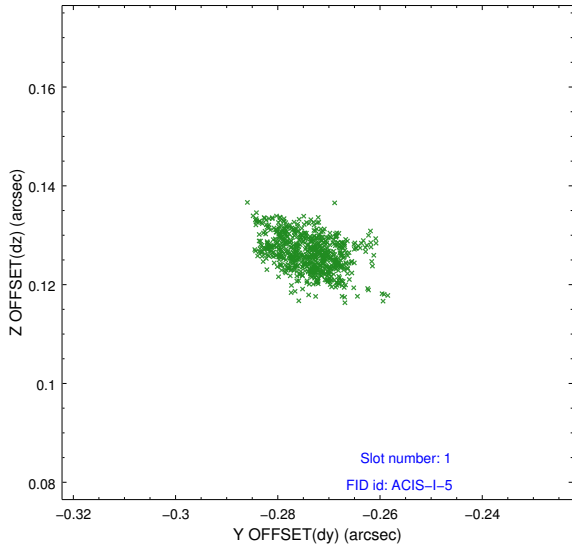


2.5 FID Slots

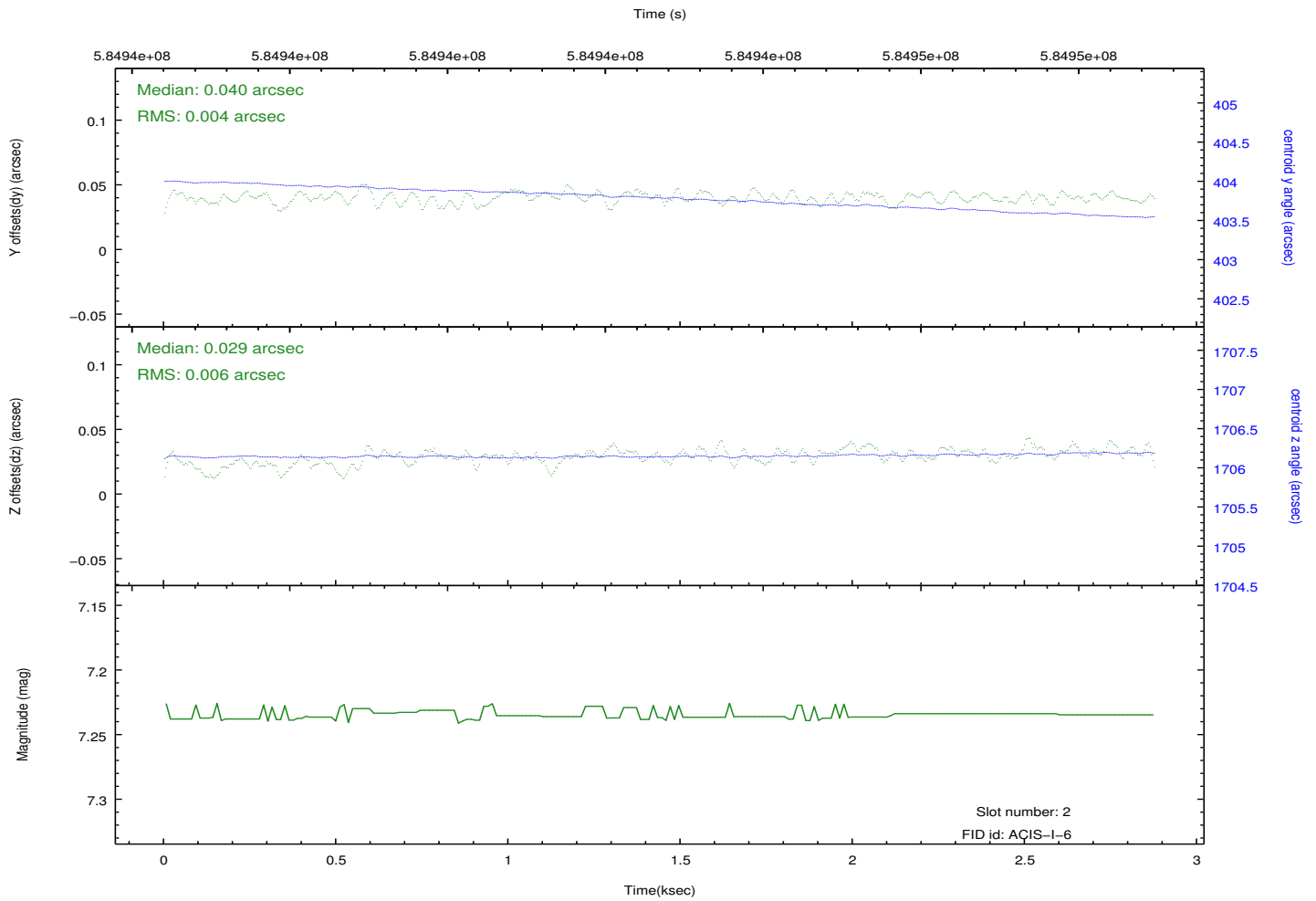
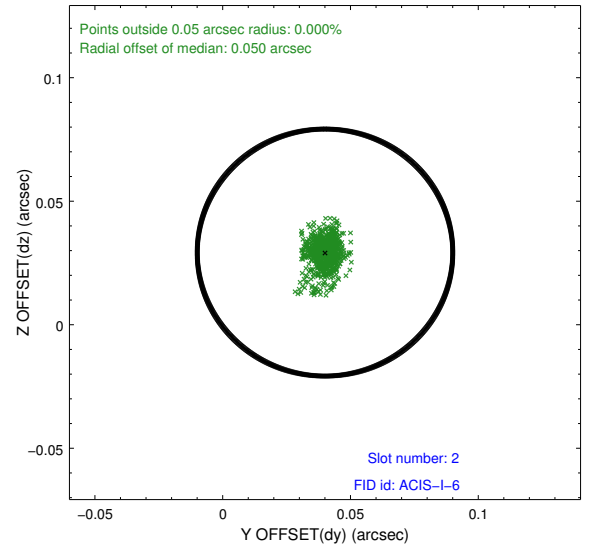
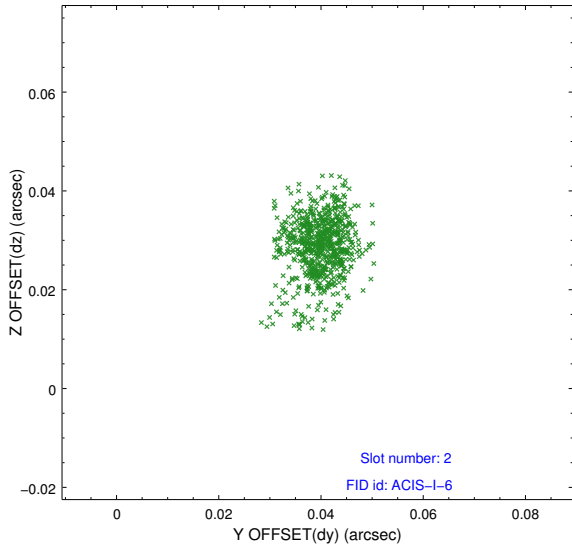
2.5.1 Slot 0



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)	2016.07.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.0770000160933

A.2 Comments