

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19535 - L2 Version 1
Chandra X-Ray Center

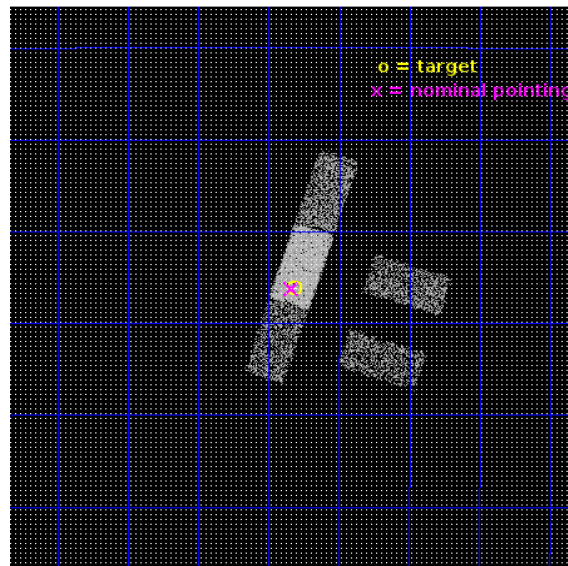
L2 Processing Date : Jan 16 2017

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1 Front

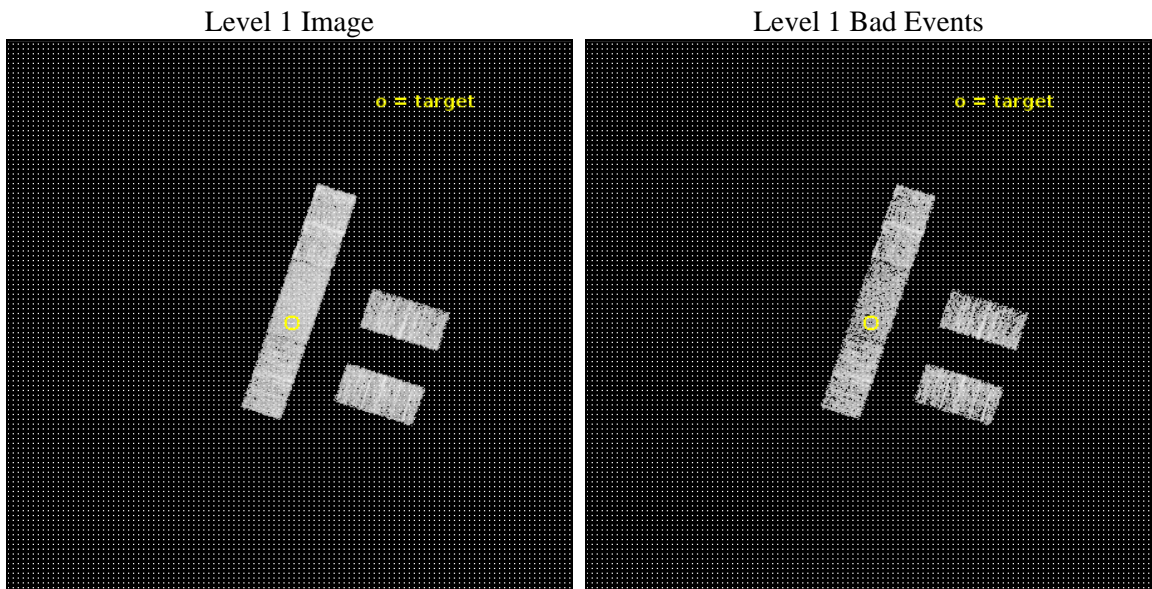
seq_num	703383	Sequence number
obs_id	19535	Observation id
title	Investigating X-ray Bias in Low-L, Low-z Quasars	Proposal title
observer	Gordon Richards	Principal investigator
object	SDSSJ002019.22-110609.2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	5.08	Observer's specified target RA [deg]
dec_targ	-11.102556	Observer's specified target Dec [deg]
ra_nom	5.0847113207403	Nominal RA [deg]
dec_nom	-11.104166371416	Nominal Dec [deg]
roll_nom	288.20080635492	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3586.6846389771	Sum of GTIs [s]
livetime	3502.1388861031	Livetime [s]
ontime2	3586.5204789639	Sum of GTIs [s]
ontime3	3586.6025589705	Sum of GTIs [s]
ontime6	3586.6435990334	Sum of GTIs [s]
ontime7	3586.6846389771	Sum of GTIs [s]
ontime8	3586.5615190268	Sum of GTIs [s]
l2events	13213	Number of level 2 events



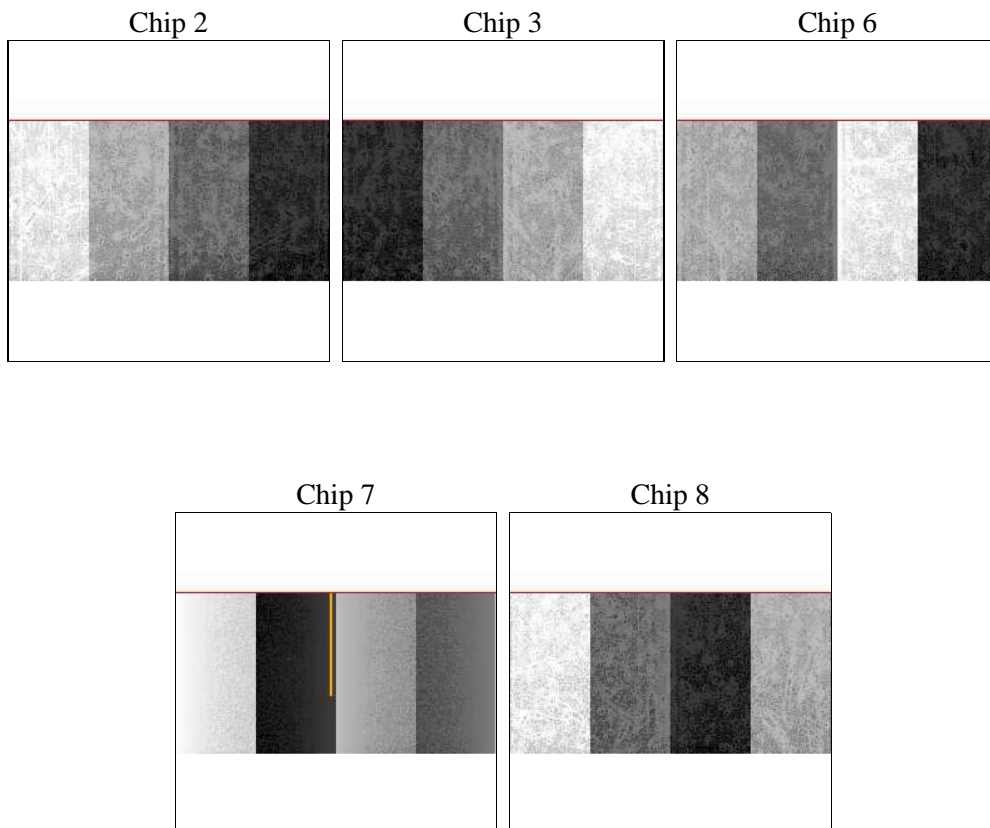
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	3586.6846389771	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	3586.5204789639	Sum of GTIs [s]
date	2017-01-17T01:52:02	Date and time of file creation	ontime3	3586.6025589705	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3586.6435990334	Sum of GTIs [s]
			ontime7	3586.6846389771	Sum of GTIs [s]
			ontime8	3586.5615190268	Sum of GTIs [s]
			l1events	77548	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	14304	12838	14493	17157	18756
rejected events	12800	11301	12975	9225	13736
rejected %	89%	88%	89%	53%	73%

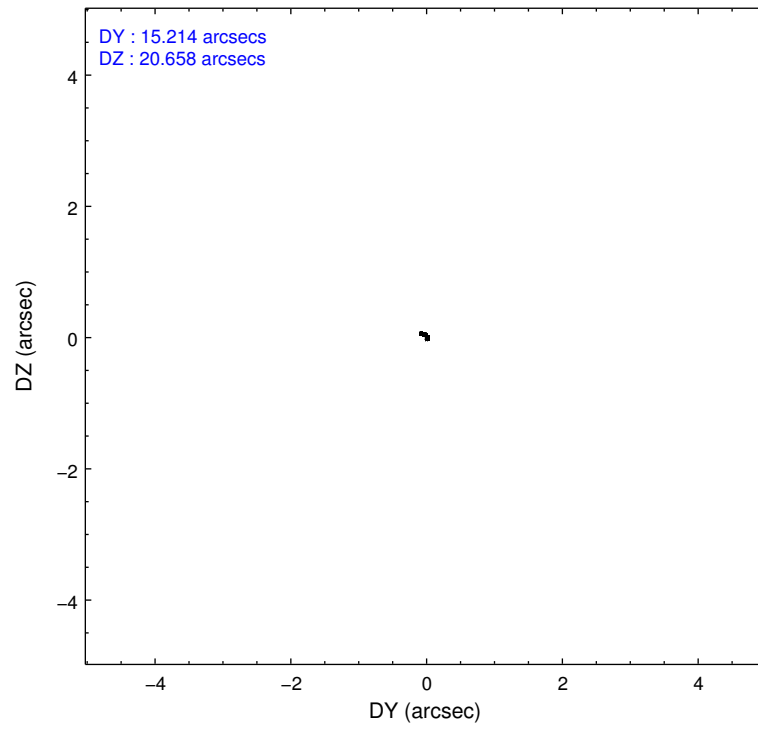
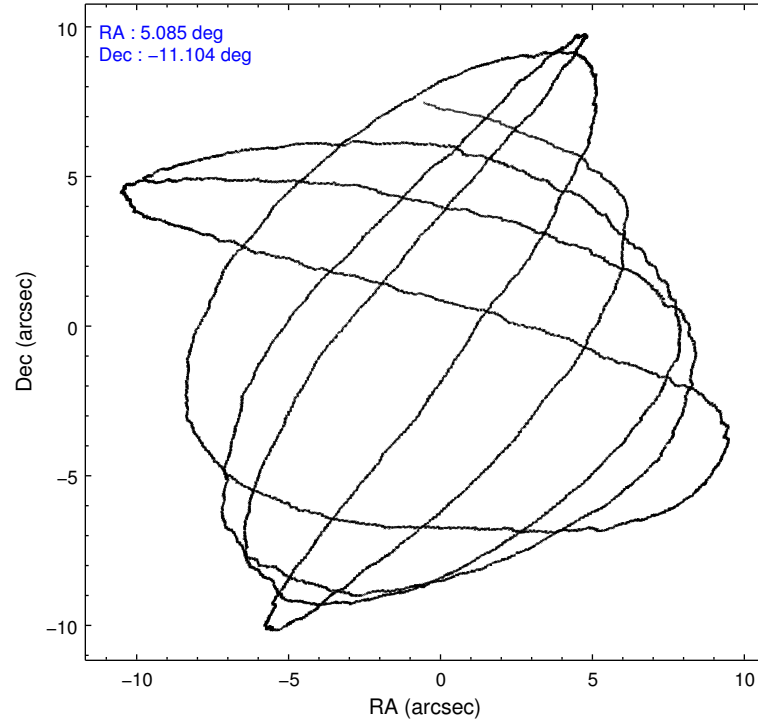
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	511	571	456	755	1460
	3%	4%	3%	4%	7%
grade 1 events	6	4	4	26	13
	0%	0%	0%	0%	0%
grade 2 events	359	293	350	1641	1207
	2%	2%	2%	9%	6%
grade 3 events	181	183	159	761	491
	1%	1%	1%	4%	2%
grade 4 events	196	186	192	764	484
	1%	1%	1%	4%	2%
grade 5 events	479	627	639	1881	1031
	3%	4%	4%	10%	5%
grade 6 events	259	307	362	4021	1379
	1%	2%	2%	23%	7%
grade 7 events	12313	10667	12331	7308	12691
	86%	83%	85%	42%	67%

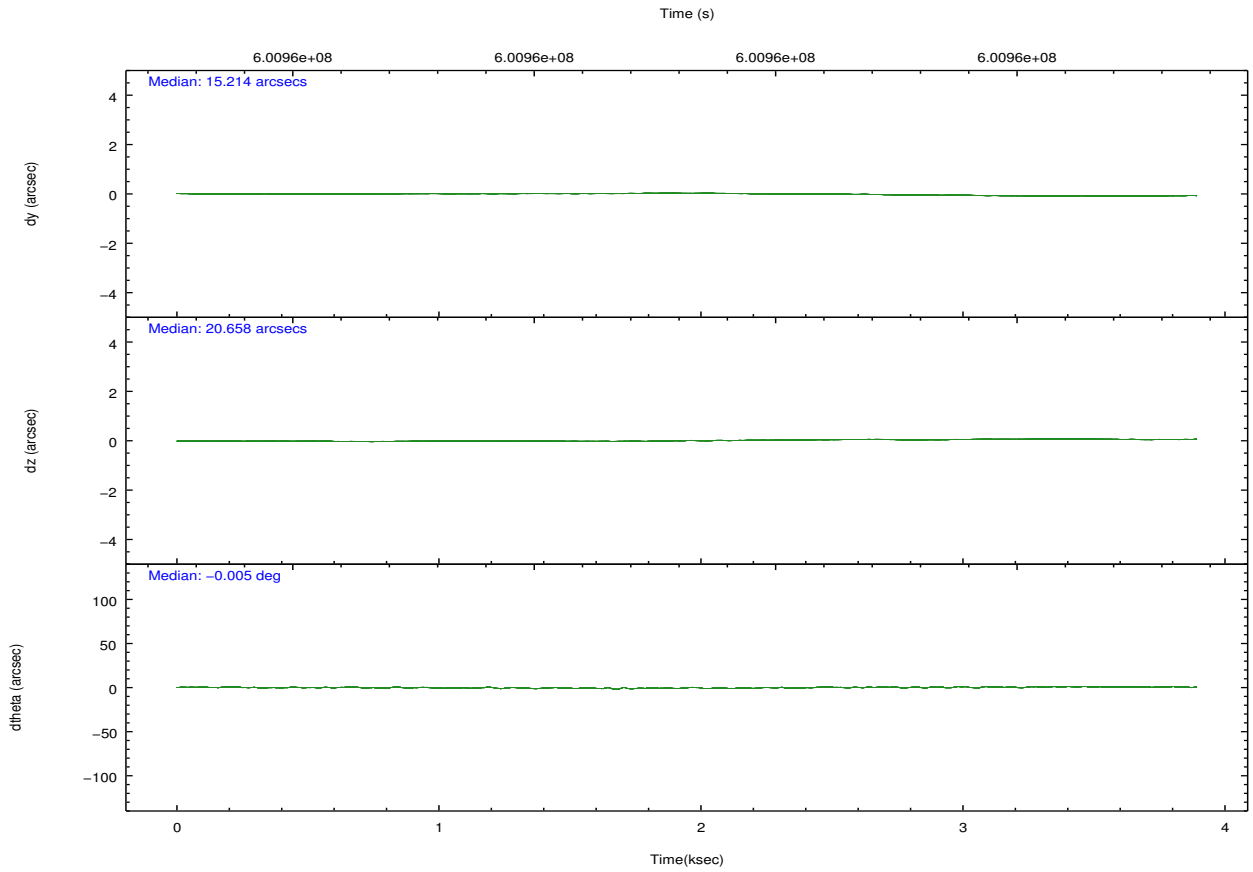
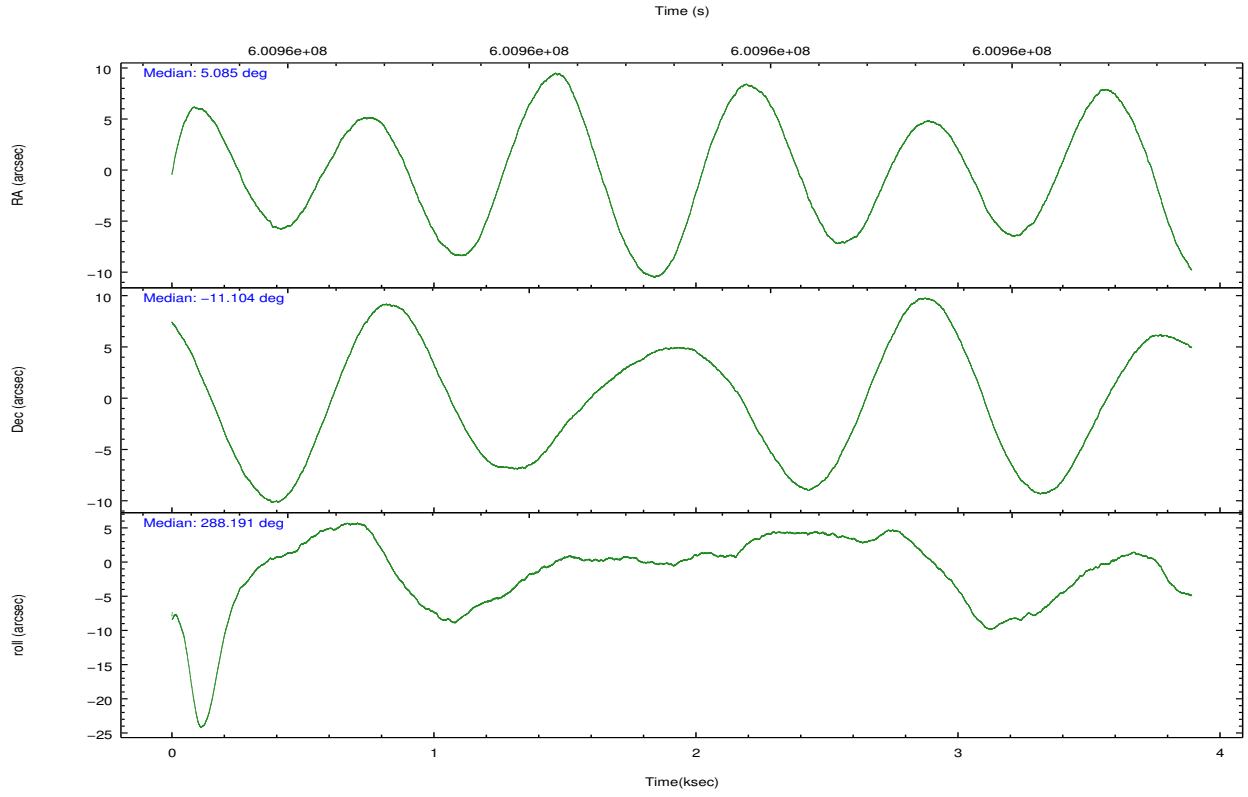
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	5.063555	5.084711320740289
[deg] Pointing Dec	-11.086118	-11.10416637141592
[deg] Pointing Roll	288.040063	288.200806354919
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	600956079.184000	600955207.47839
Observation start date	2017-01-16T12:13:30	2017-01-16T12:00:07
[s] Observation end time (MET)	600959579.184000	600960536.4536999
Observation end date	2017-01-16T13:11:50	2017-01-16T13:28:56
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/2
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



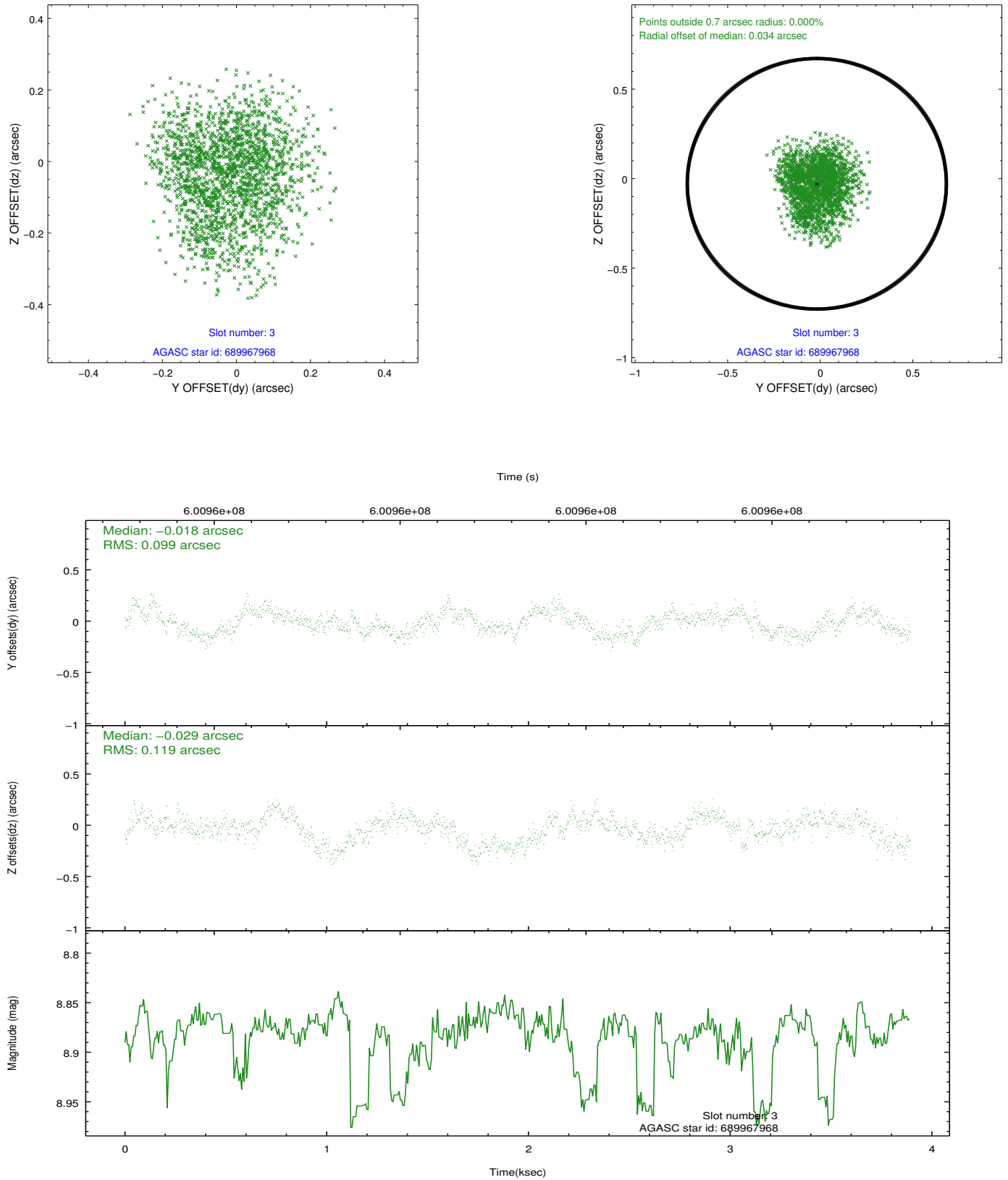


Slot Statistics

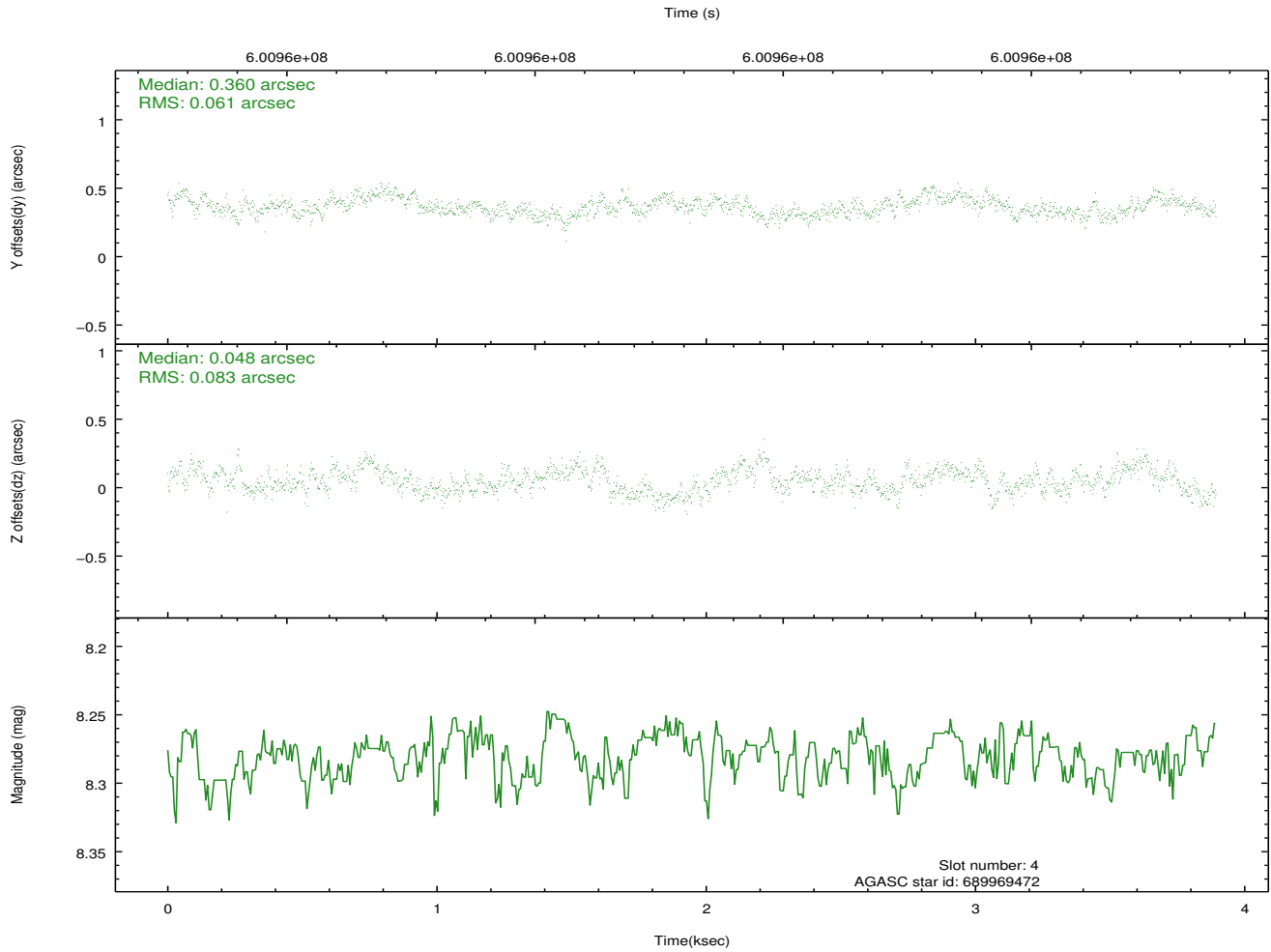
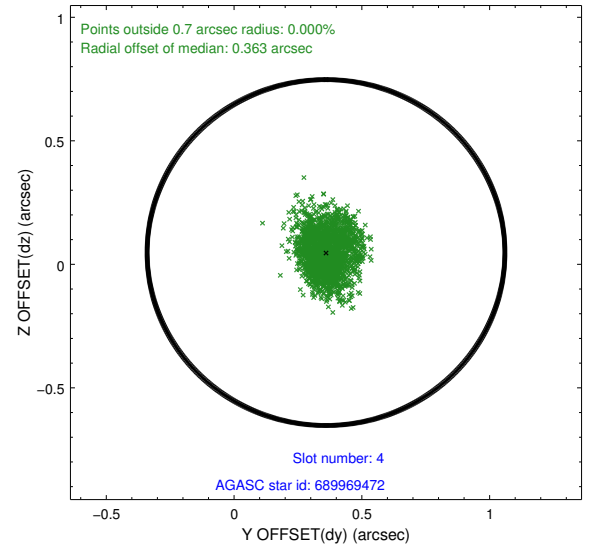
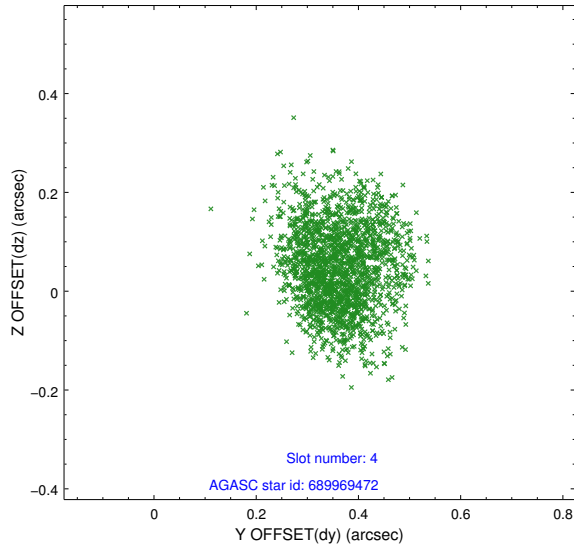
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.92	950	-0.201	-0.034	0.007	0.012	0.000000	0.000000	-768.35	-1742.25
1	FID		ACIS-S-4	7.03	949	0.392	0.106	0.006	0.012	0.000000	0.000000	2144.76	164.73
2	FID		ACIS-S-5	7.03	950	-0.222	-0.064	0.008	0.014	0.000000	0.000000	-1819.18	160.02
3	GUIDE	used	689967968	8.88	1900	-0.018	-0.029	0.167	0.262	4.731730	-11.589144	1361.02	-1672.86
4	GUIDE	used	689969472	8.28	1897	0.360	0.048	0.110	0.175	4.698058	-10.949403	-865.80	-1077.12
5	GUIDE	used	689970512	9.63	1894	-0.125	0.032	0.205	0.331	4.717798	-11.435685	819.78	-1550.59
6	GUIDE	used	690097560	9.77	1892	-0.050	-0.196	0.218	0.375	5.807012	-11.298859	1543.42	2257.59
7	GUIDE	used	690099320	8.58	1899	-0.164	0.142	0.106	0.170	5.340153	-10.683421	-1074.48	1380.52

2.4 Star Slots

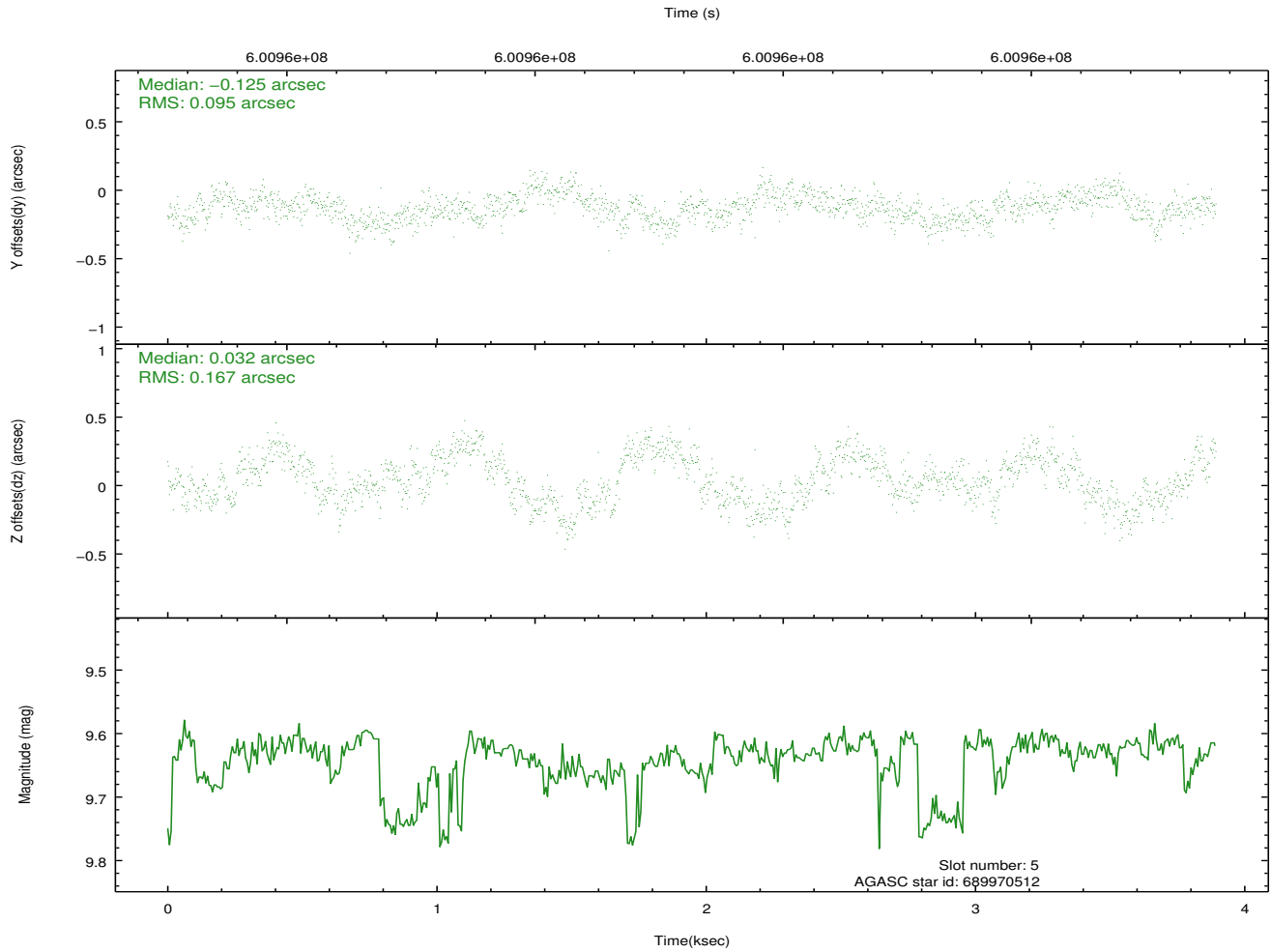
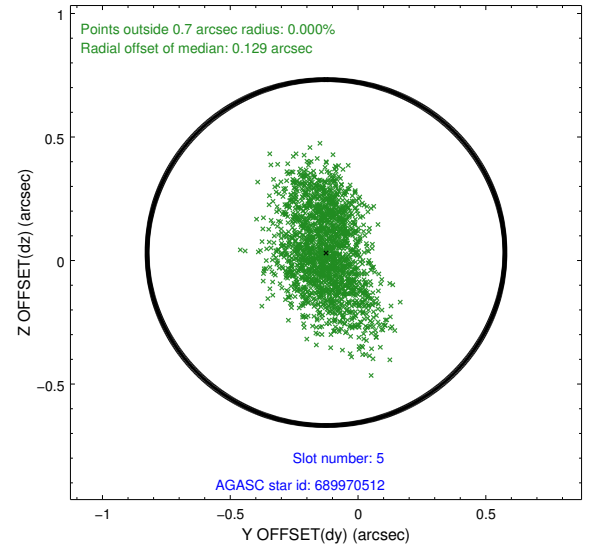
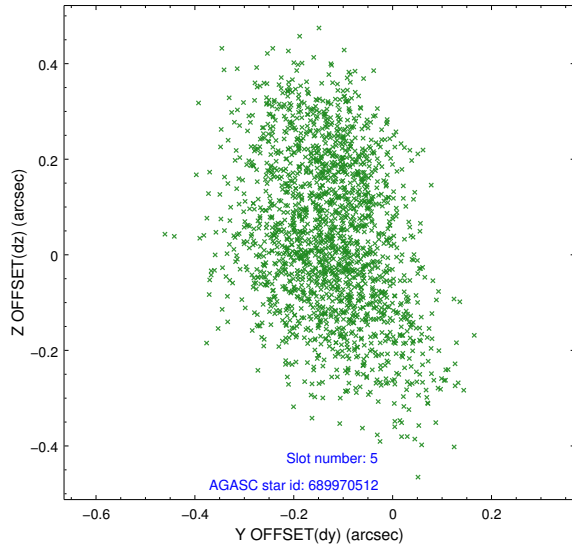
2.4.1 Slot 3



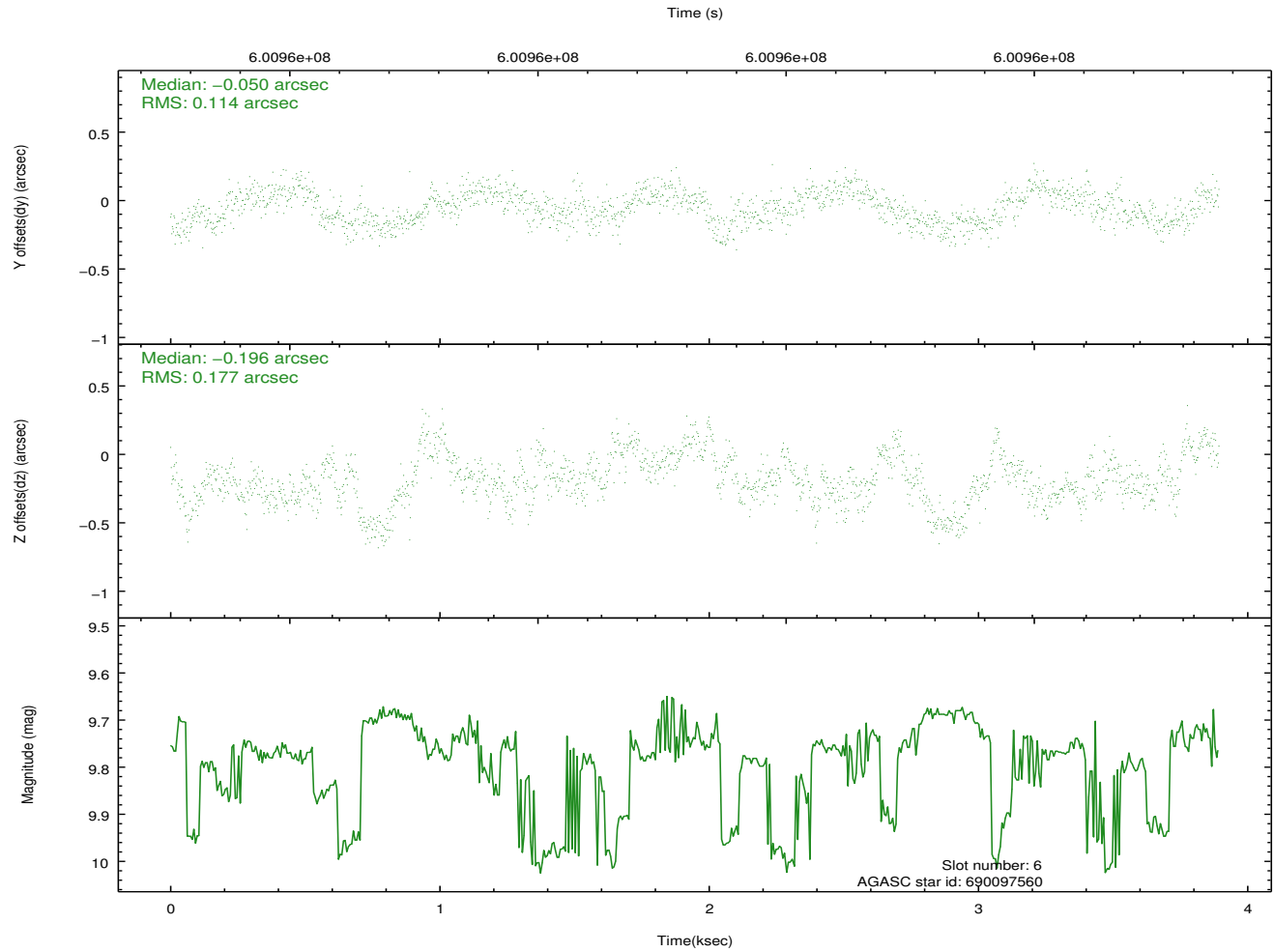
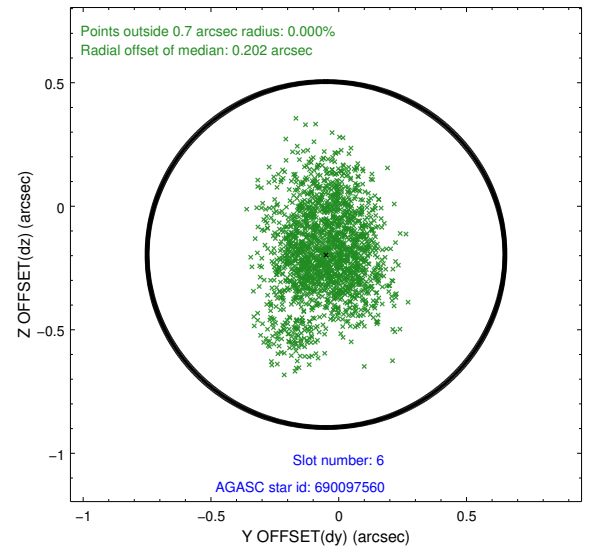
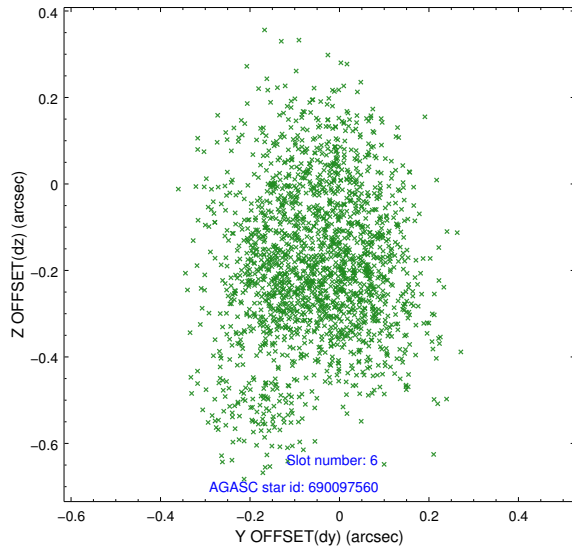
2.4.2 Slot 4



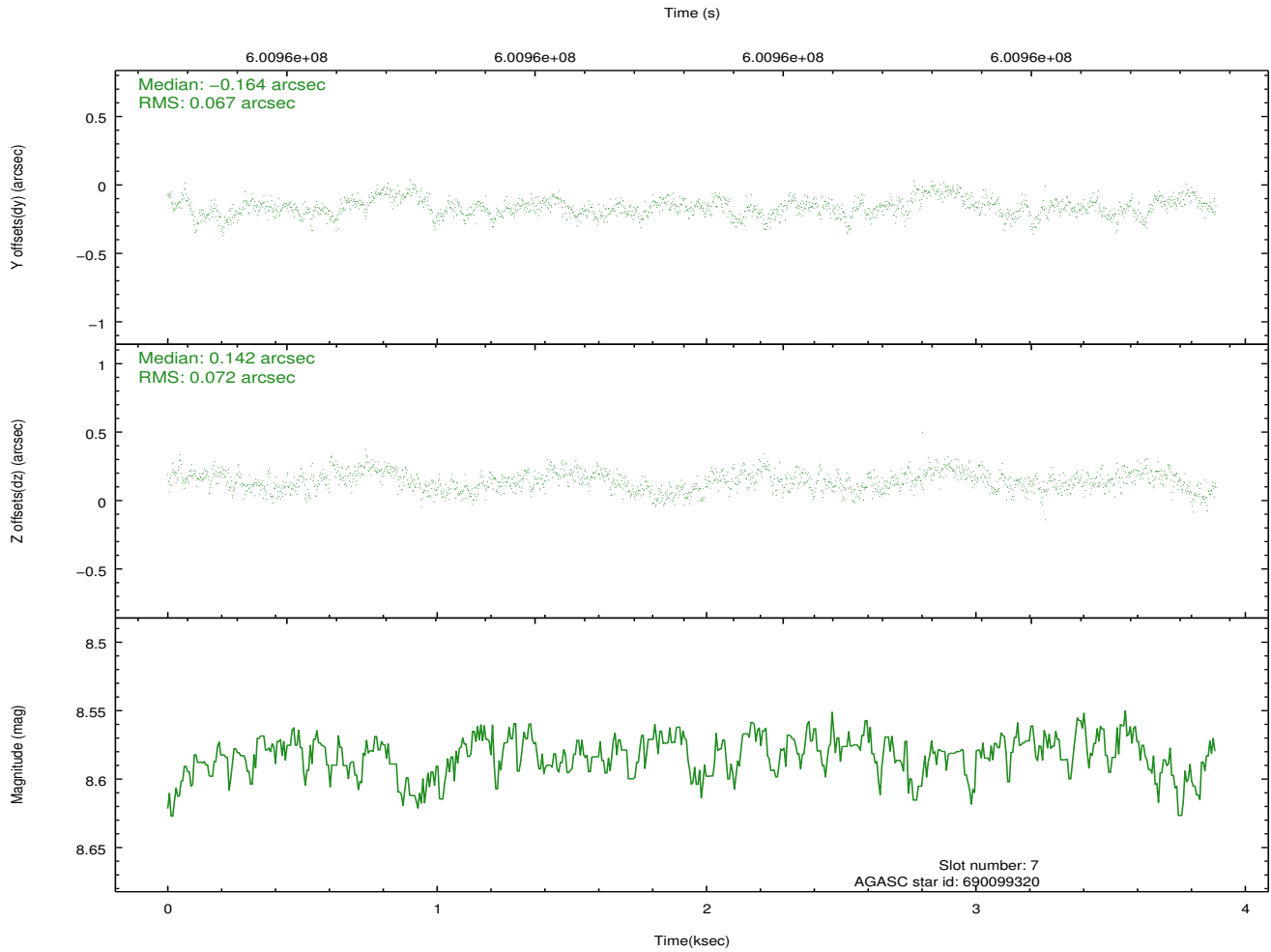
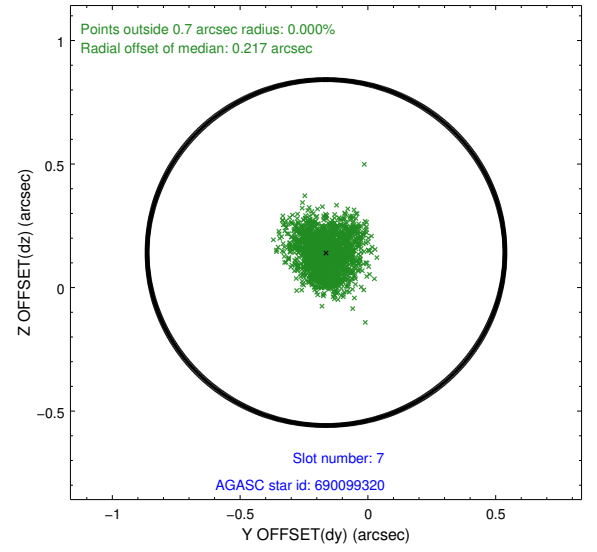
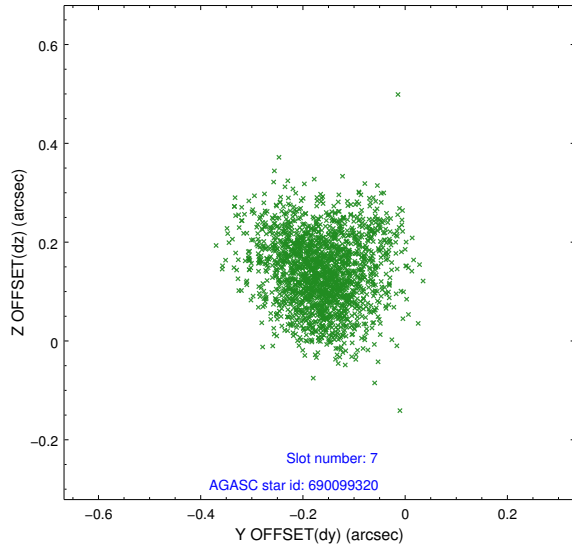
2.4.3 Slot 5



2.4.4 Slot 6

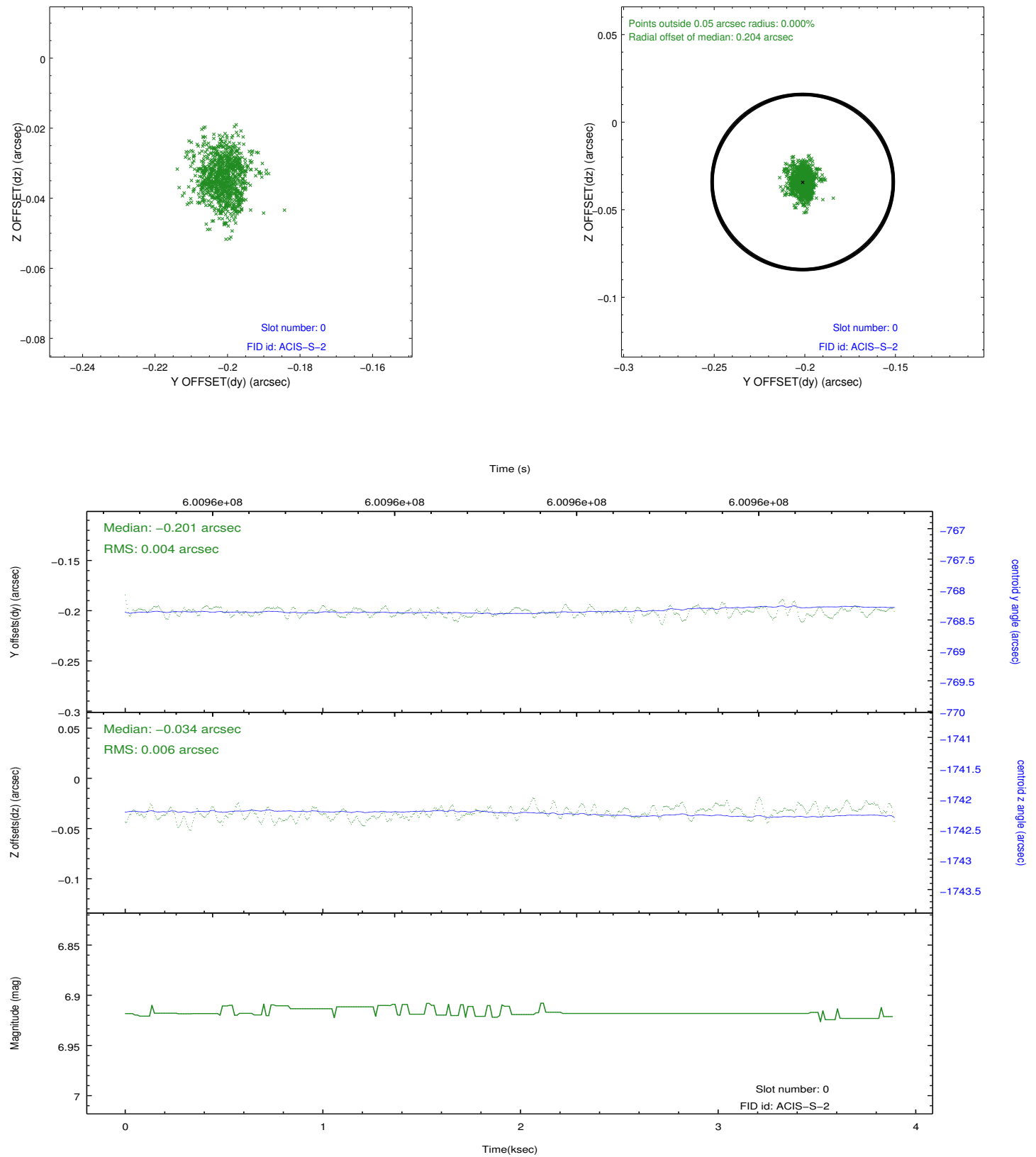


2.4.5 Slot 7

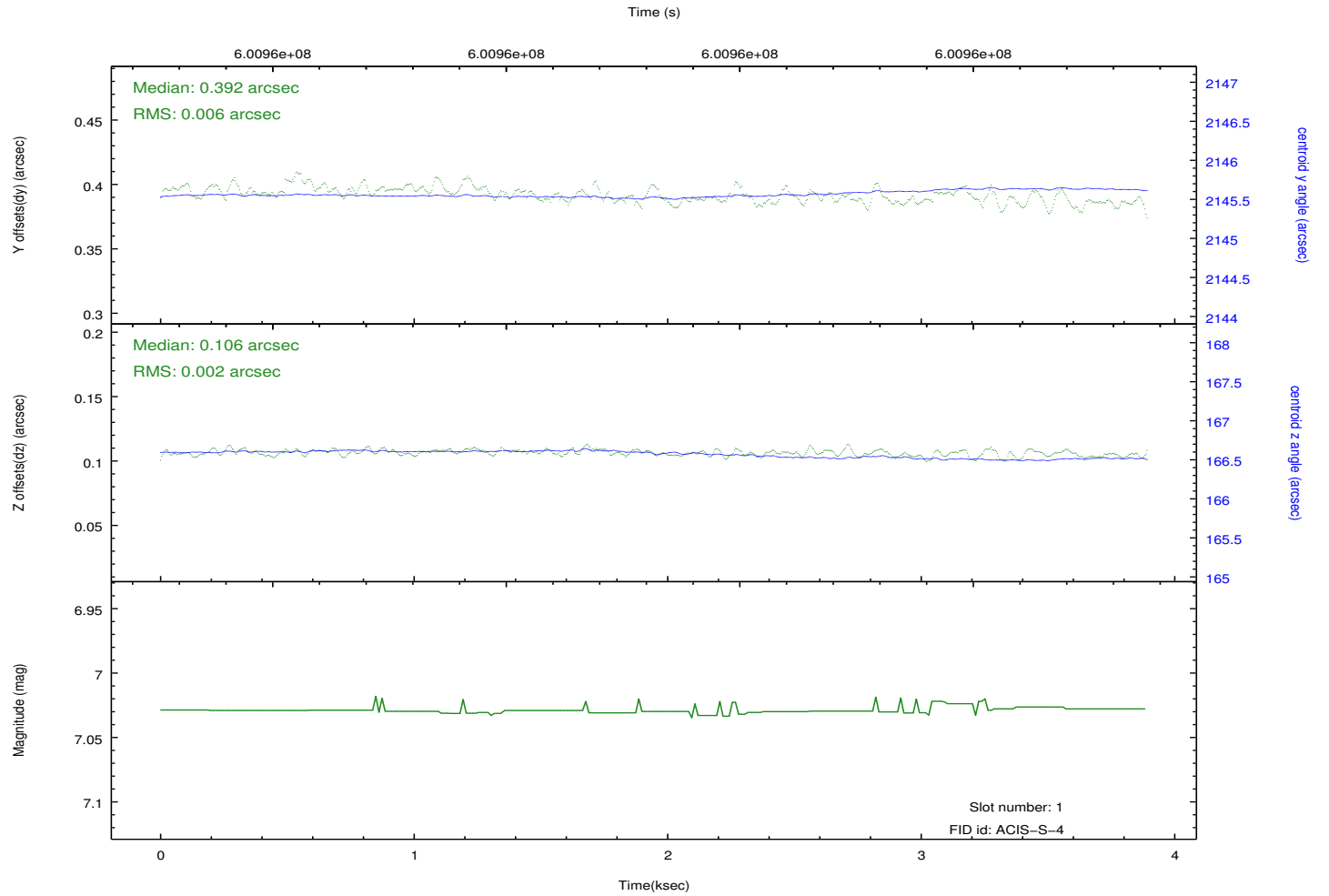
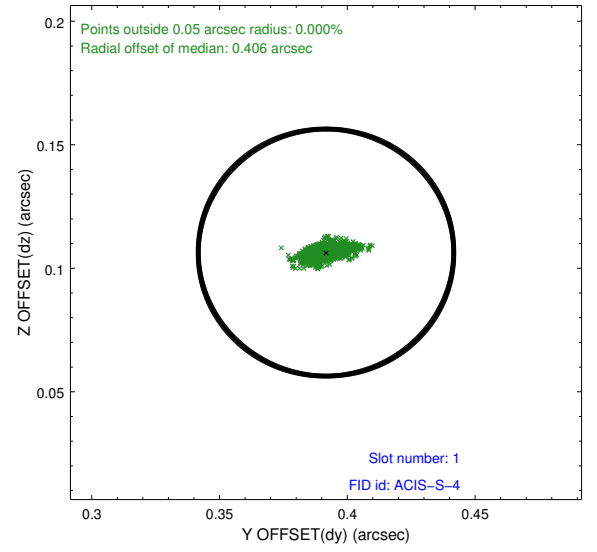
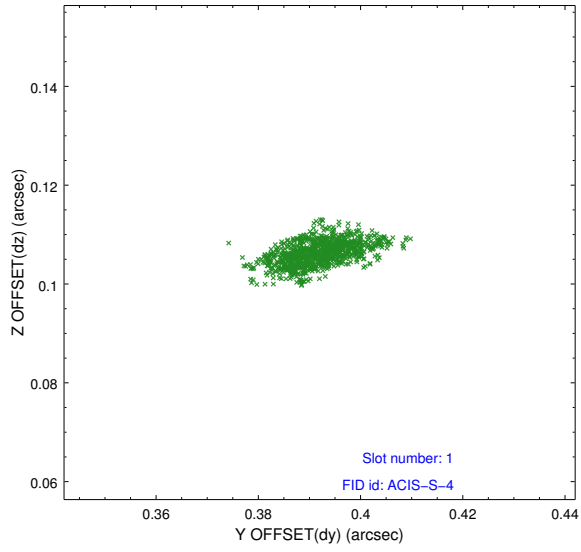


2.5 FID Slots

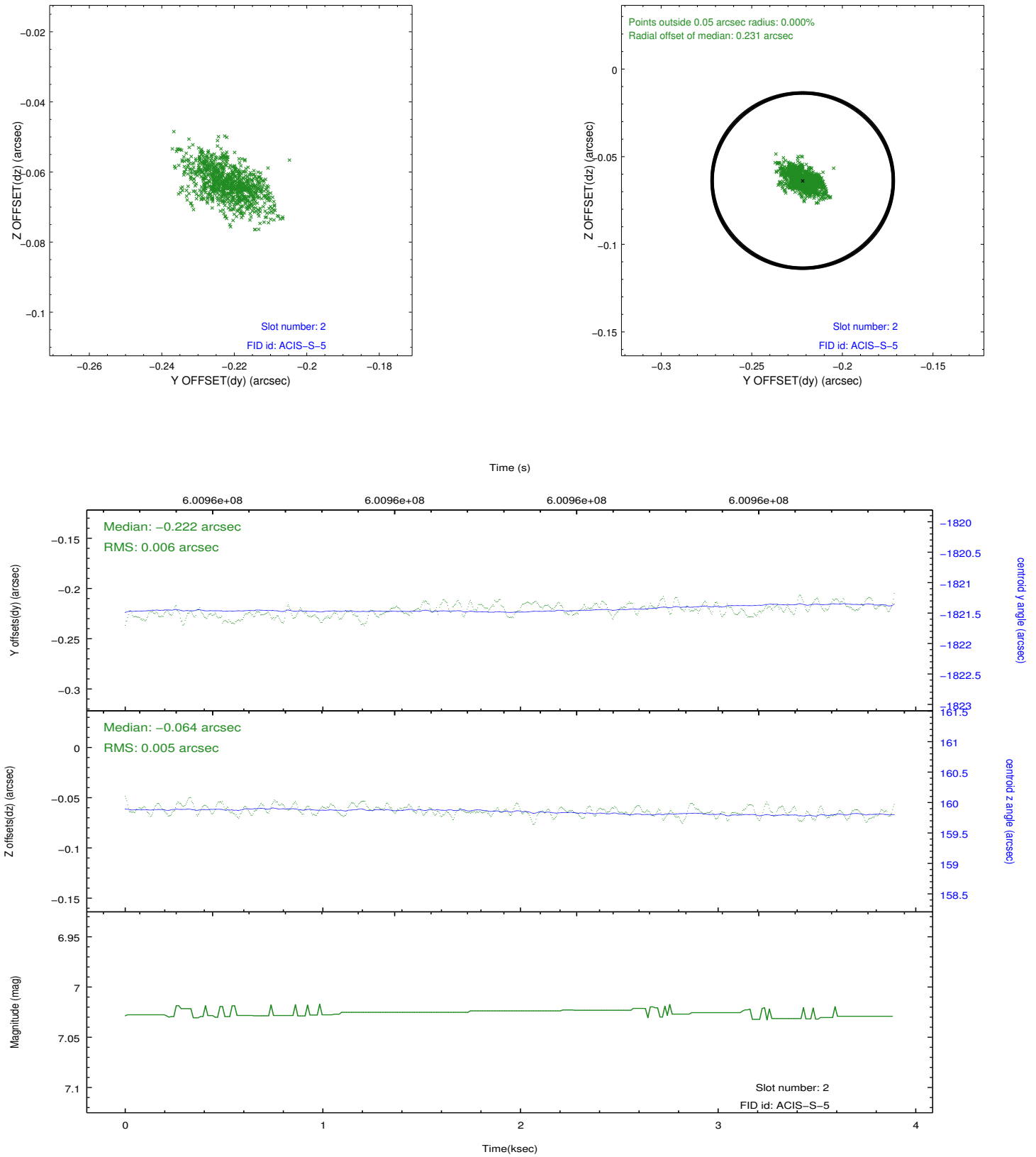
2.5.1 Slot 0



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)	2017.01.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5866846389771

A.2 Comments