

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19986 - L2 Version 1
Chandra X-Ray Center

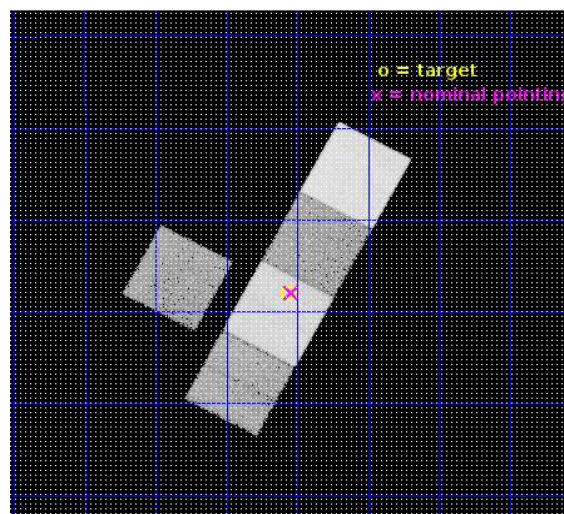
L2 Processing Date : Jul 24 2017

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1 Front

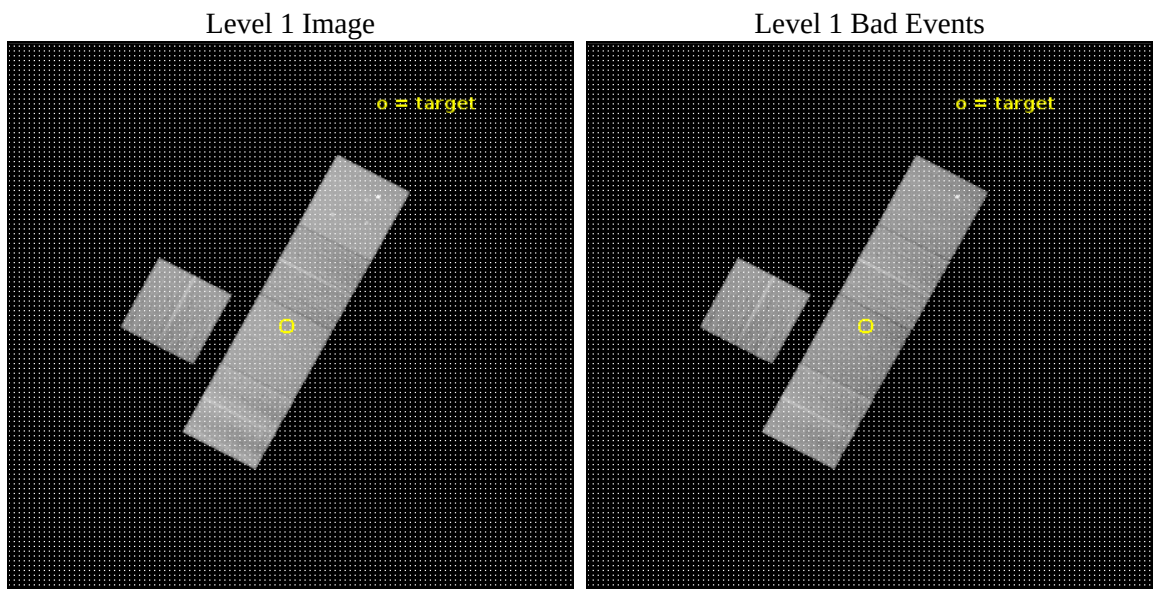
seq_num	502971	Sequence number
obs_id	19986	Observation id
title	First Deep X-ray Observations of a Rapid, Luminous and Blue Stellar Explosion	Proposal title
observer	Raffaella Margutti	Principal investigator
object	CSS161010	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	74.641667	Observer's specified target RA [deg]
dec_targ	-8.300833	Observer's specified target Dec [deg]
ra_nom	74.635742725977	Nominal RA [deg]
dec_nom	-8.2993016561292	Nominal Dec [deg]
roll_nom	118.15578305773	Nominal Roll [deg]
revision	1	Processing version of data
ontime	29771.358171821	Sum of GTIs [s]
livetime	29382.373459951	Livetime [s]
ontime3	29771.23505187	Sum of GTIs [s]
ontime5	29771.317131877	Sum of GTIs [s]
ontime6	29768.135151505	Sum of GTIs [s]
ontime7	29771.358171821	Sum of GTIs [s]
ontime8	29758.629921556	Sum of GTIs [s]
l2events	329021	Number of level 2 events



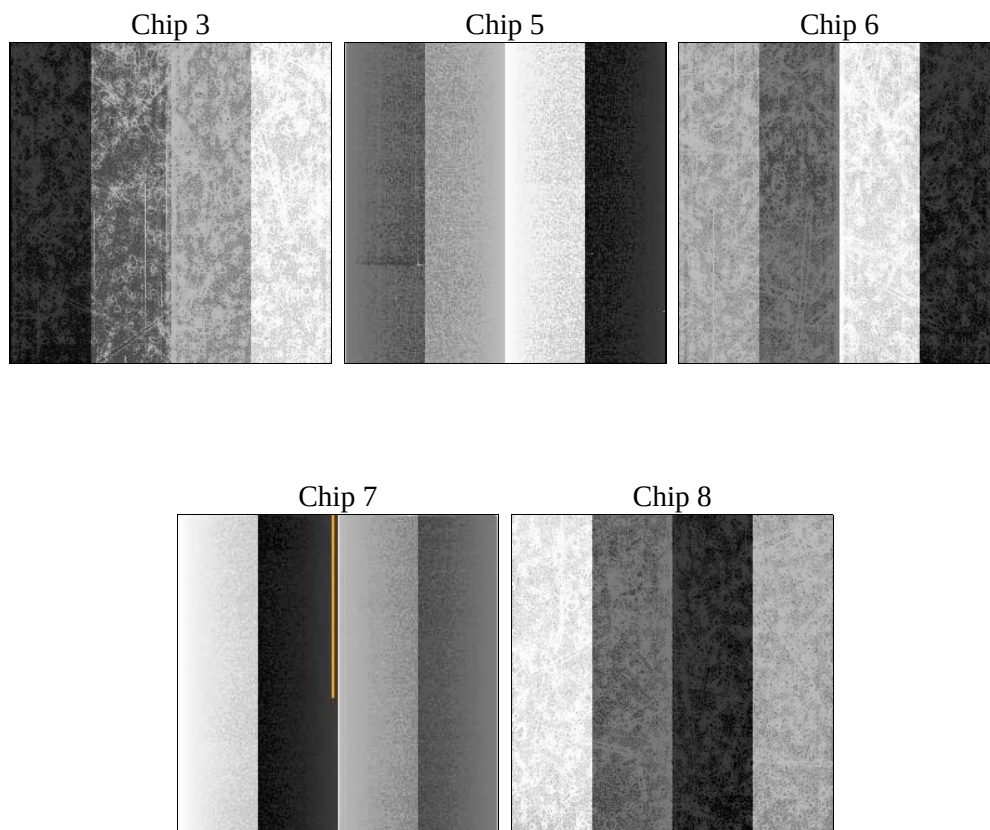
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	29771.358171821	Sum of GTIs [s]
caldsver	4.7.5	 	ontime3	29771.23505187	Sum of GTIs [s]
date	2017-07-24T13:57:56	Date and time of file creation	ontime5	29771.317131877	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	29768.135151505	Sum of GTIs [s]
			ontime7	29771.358171821	Sum of GTIs [s]
			ontime8	29758.629921556	Sum of GTIs [s]
			l1events	1287005	Number of level 1 events

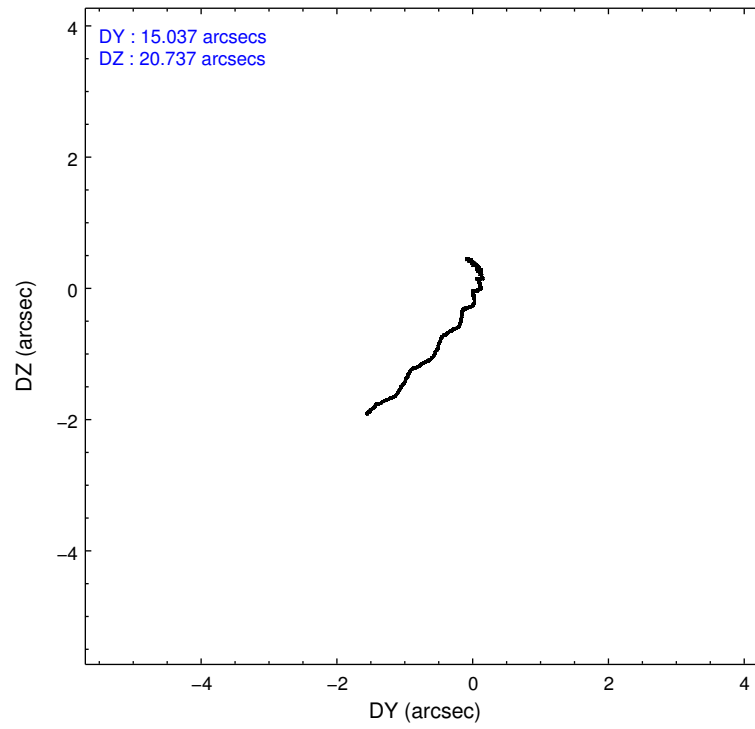
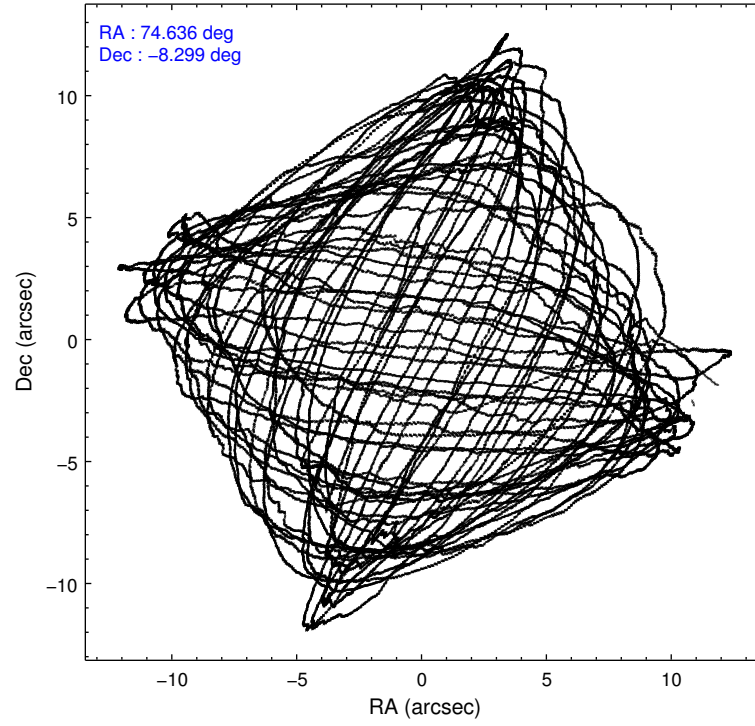
2.1.4 Events

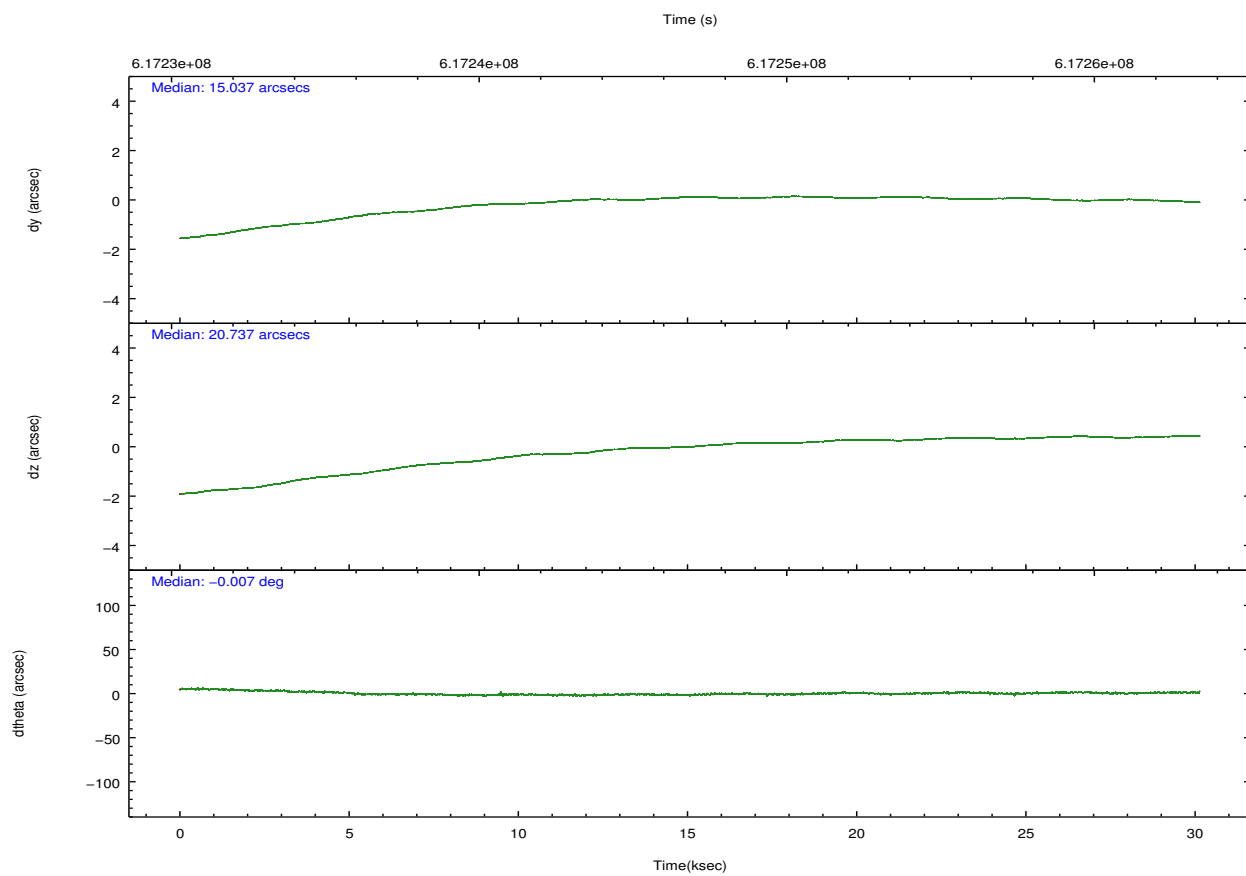
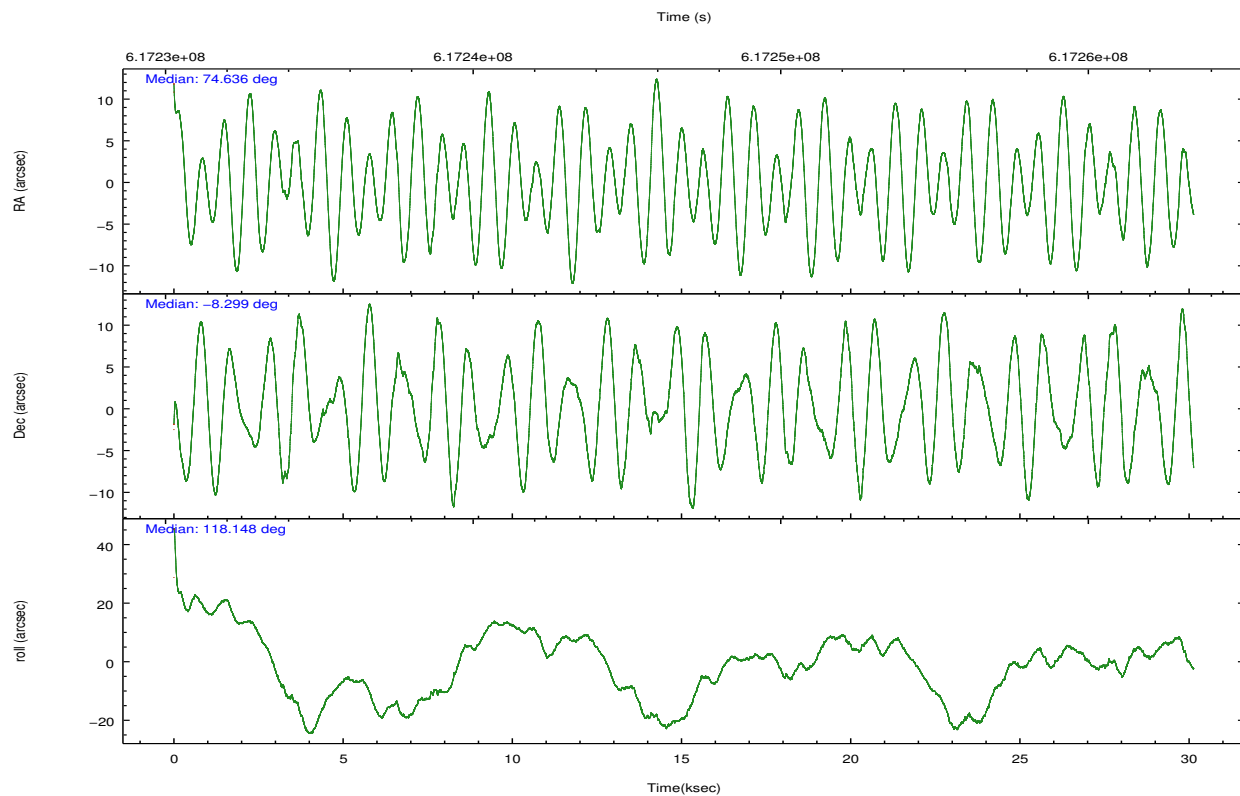
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	196396	335942	209889	265903	278875	grade 0 events	8388	12219	7928	9984	22455
rejected events	174199	175995	186335	150059	201090		4%	3%	3%	3%	8%
rejected %	88%	52%	88%	56%	72%	grade 1 events	101	792	102	389	249
							0%	0%	0%	0%	0%
						grade 2 events	4789	51739	5471	24680	18647
							2%	15%	2%	9%	6%
						grade 3 events	2255	5210	2368	9429	8182
							1%	1%	1%	3%	2%
						grade 4 events	2267	4947	2329	9205	7478
							1%	1%	1%	3%	2%
						grade 5 events	9831	24066	9611	26406	14855
							5%	7%	4%	9%	5%
						grade 6 events	4502	85862	5463	62570	21031
							2%	25%	2%	23%	7%
						grade 7 events	164263	151107	176617	123240	185978
							83%	44%	84%	46%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	74.659485	74.63574272597737	CCD I2 on	N	N
[deg] Pointing Dec	-8.313464	-8.299301656129179	CCD I3 on	O1	Y
[deg] Pointing Roll	118.002574	118.1557830577285	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	617231904.184000	617230353.68655	CCD S5 on	N	N
Observation start date	2017-07-23T21:17:15	2017-07-23T20:52:33	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	617261904.184000	617262787.25094	On-chip summing requested	N	N
Observation end date	2017-07-24T05:37:15	2017-07-24T05:53:07	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



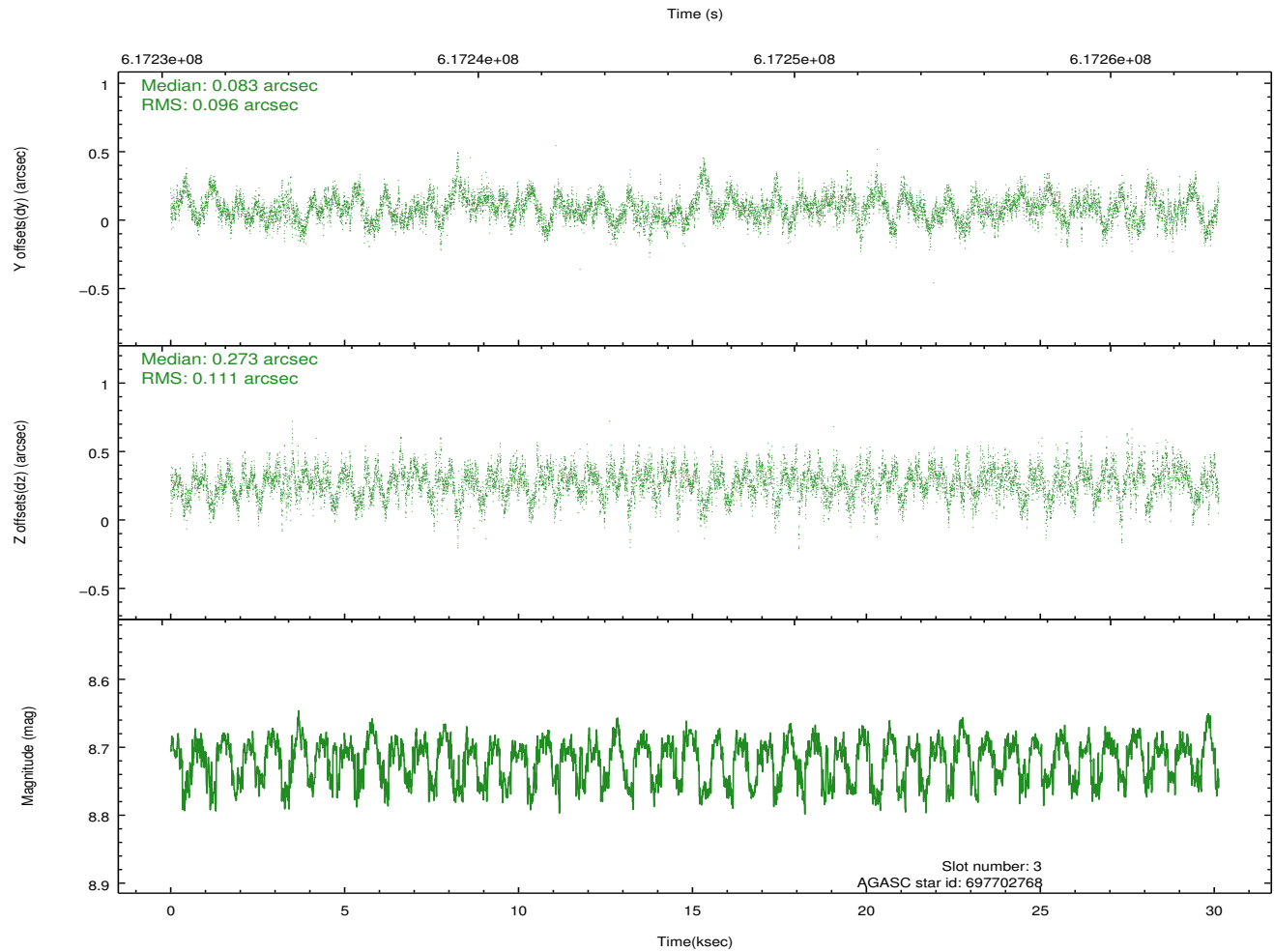
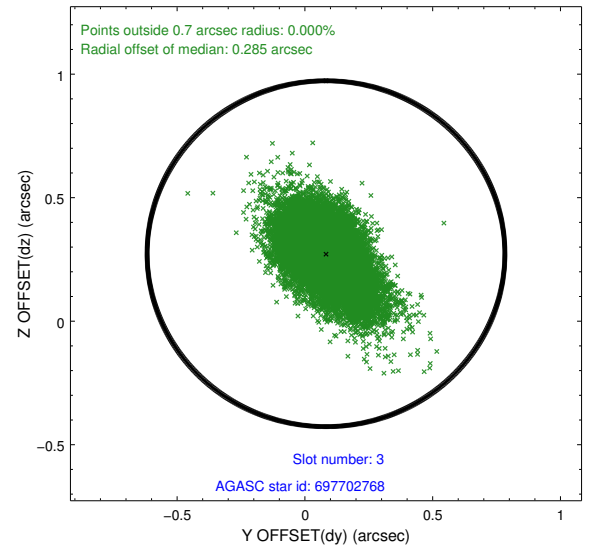
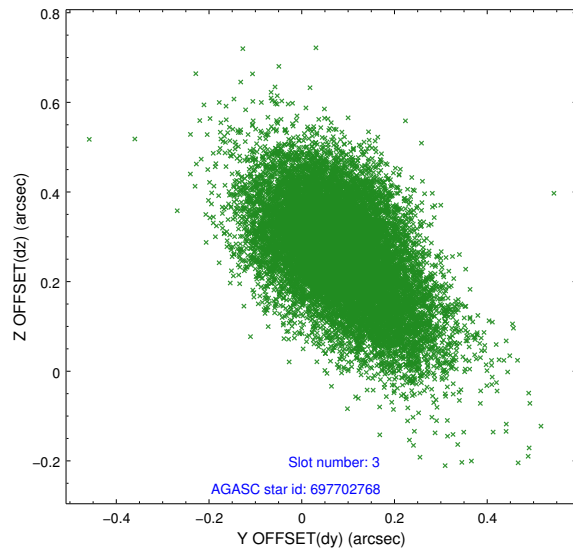


Slot Statistics

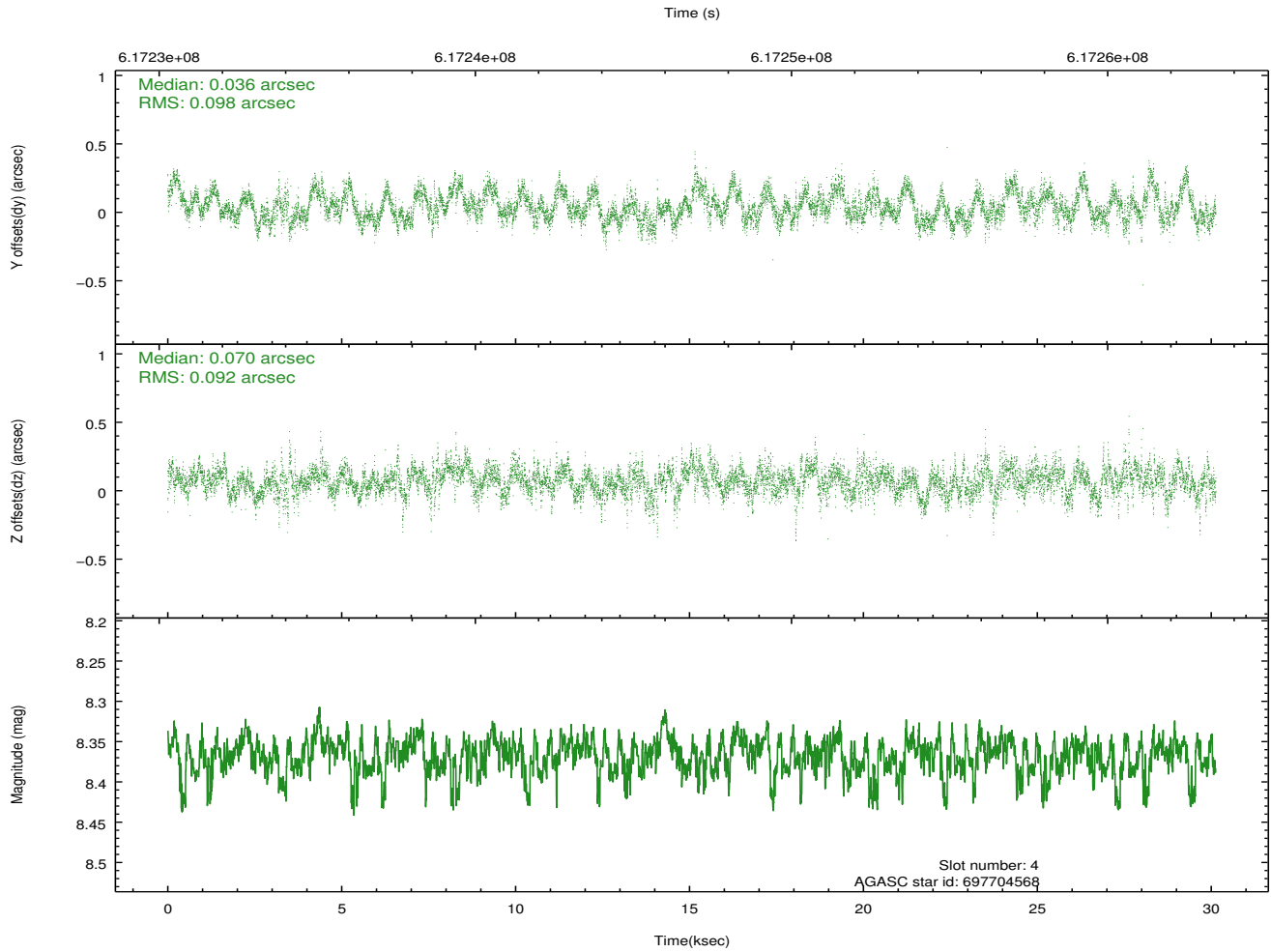
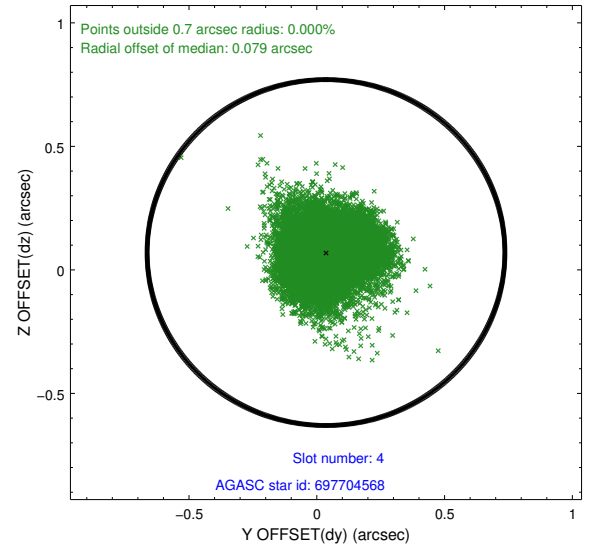
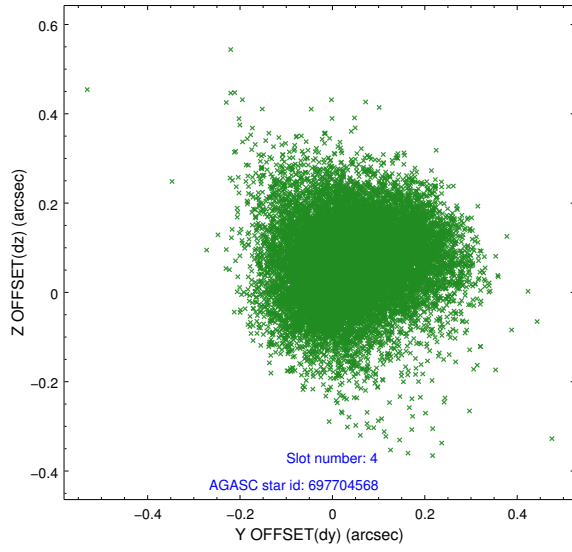
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.07	7351	0.341	0.011	0.015	0.031	0.000000	0.000000	2145.91	166.81
1	FID		ACIS-S-5	7.06	7351	-0.410	-0.004	0.018	0.032	0.000000	0.000000	-1820.94	160.11
2	FID		ACIS-S-6	7.19	7351	0.040	0.008	0.013	0.038	0.000000	0.000000	393.76	803.95
3	GUIDE	used	697702768	8.71	14696	0.083	0.273	0.151	0.264	75.110861	-8.291710	-686.14	-1455.59
4	GUIDE	used	697704568	8.37	14690	0.036	0.070	0.144	0.231	75.079274	-8.009302	263.94	-1834.74
5	GUIDE	used	697706672	9.05	14685	0.125	0.155	0.182	0.298	75.000244	-8.097222	117.20	-1437.22
6	GUIDE	used	697715080	7.15	14700	-0.390	-0.917	0.153	0.271	74.244750	-8.458882	230.10	1549.38
7	GUIDE	used	697705976	8.74	14686	0.136	0.414	0.137	0.226	75.080239	-8.643116	-1751.17	-764.06

2.4 Star Slots

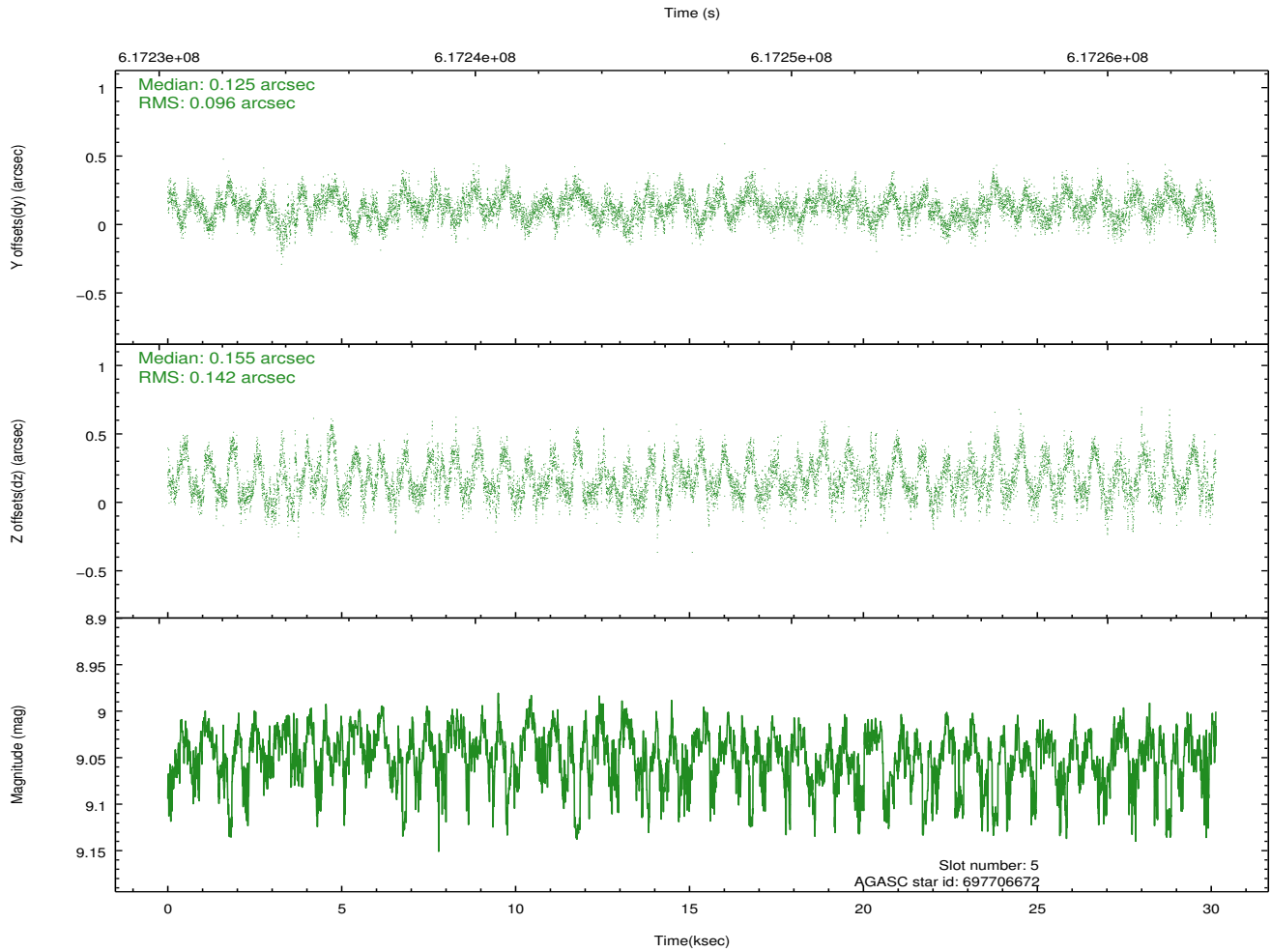
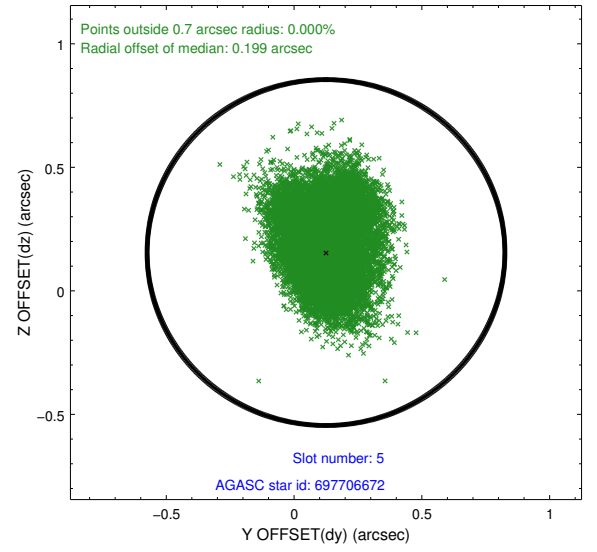
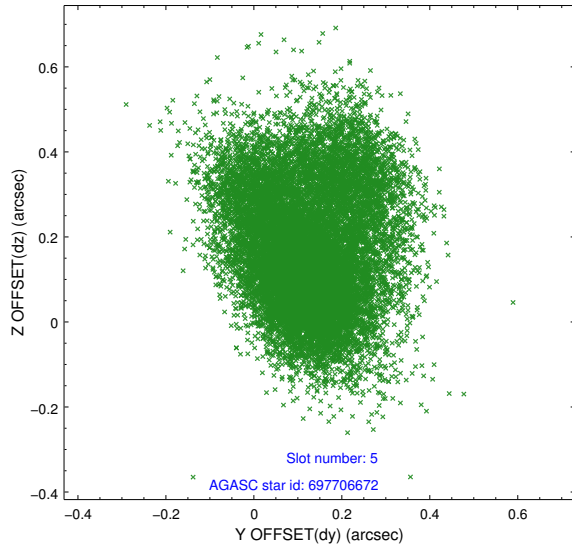
2.4.1 Slot 3



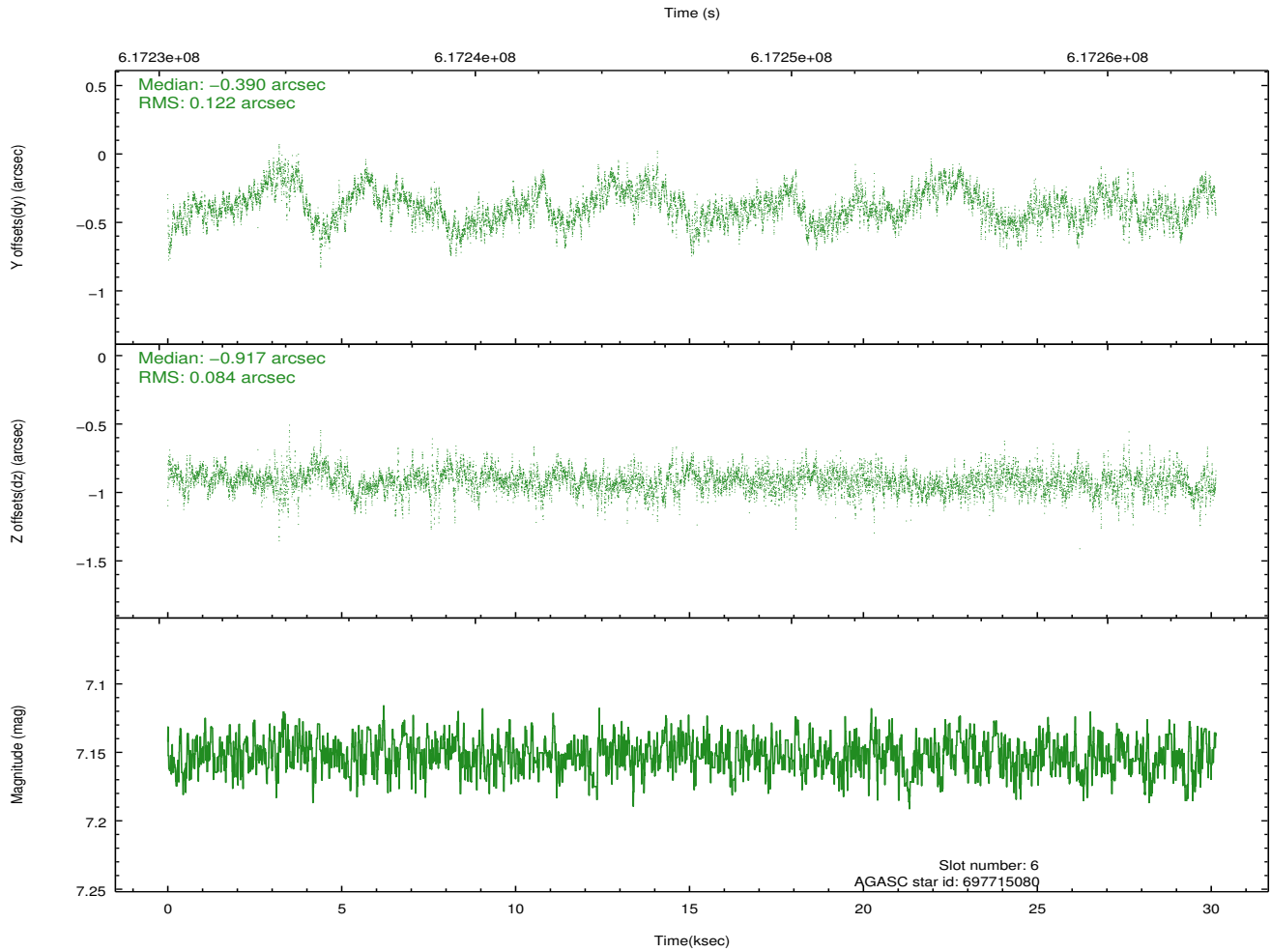
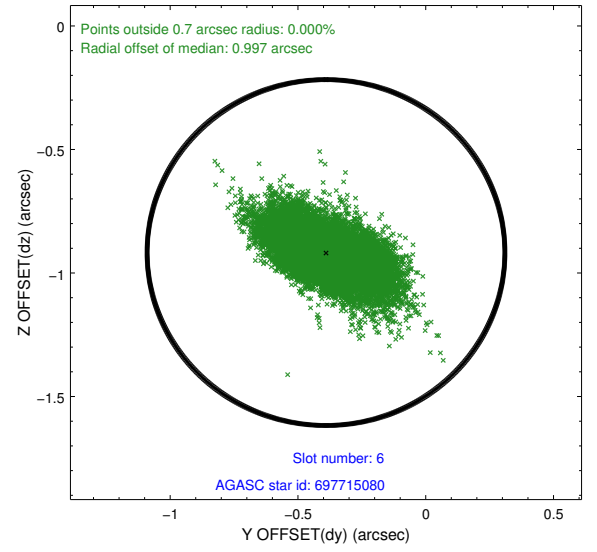
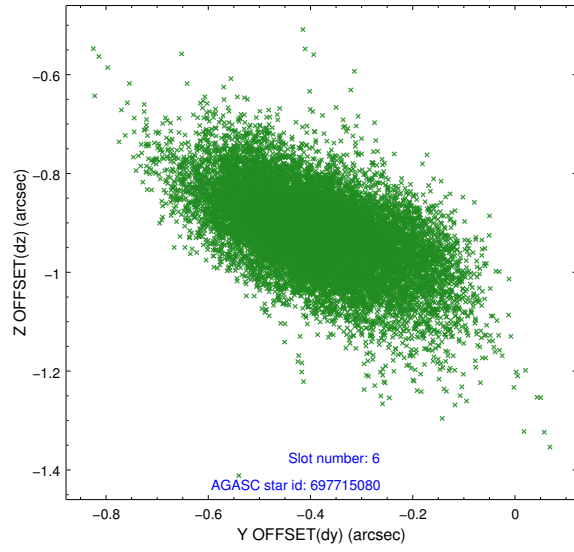
2.4.2 Slot 4



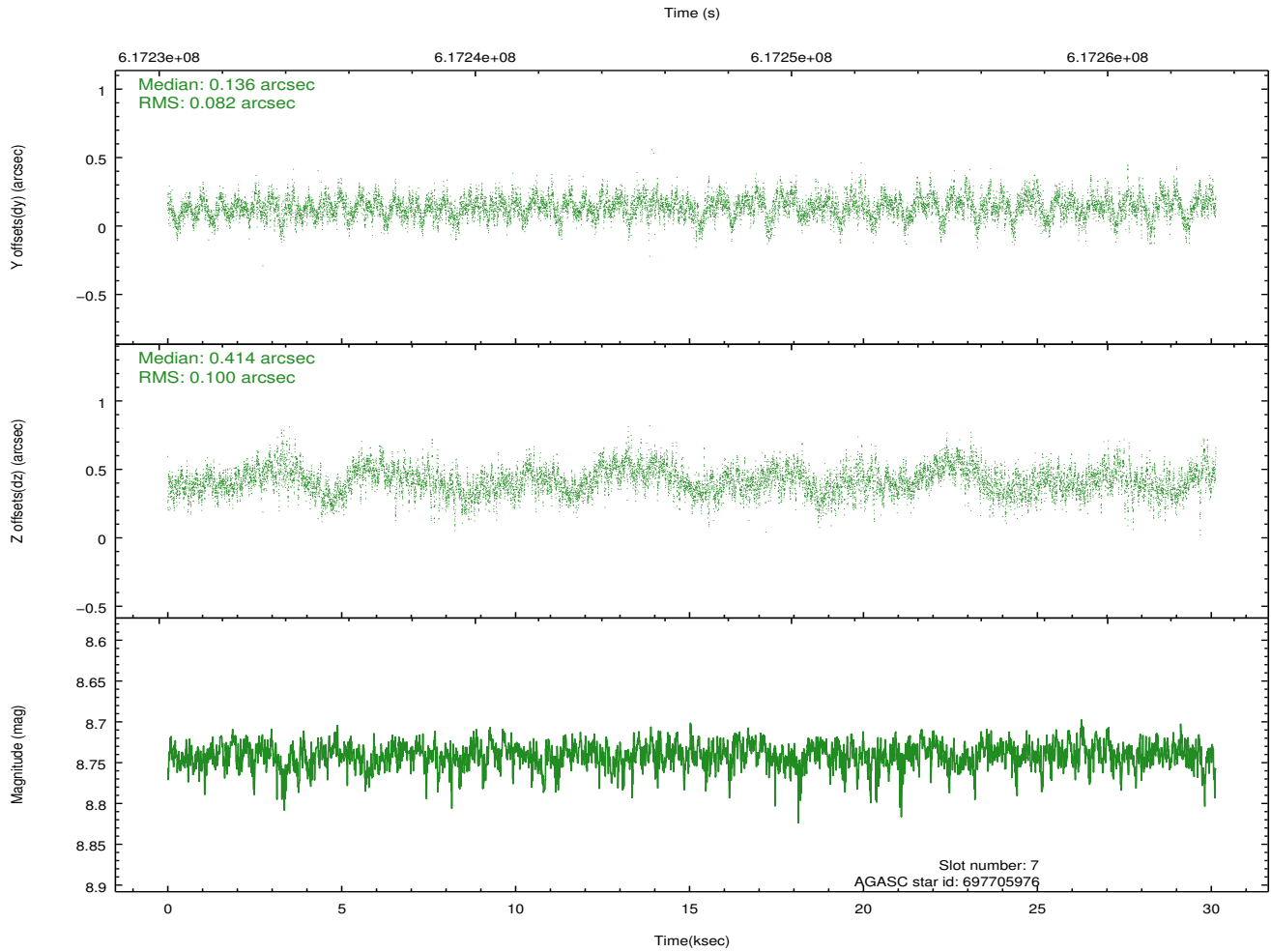
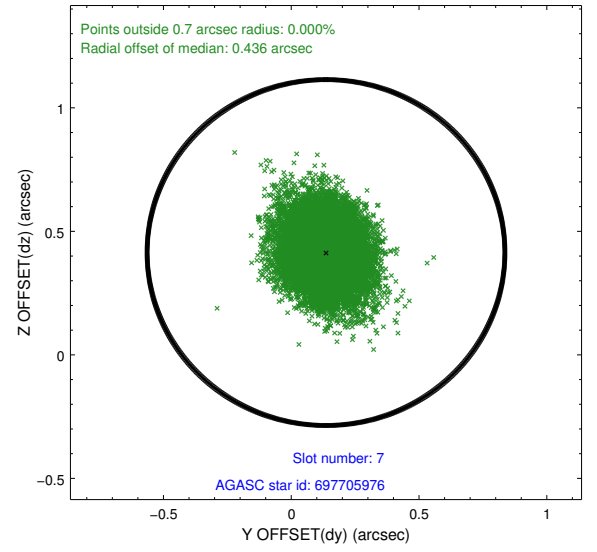
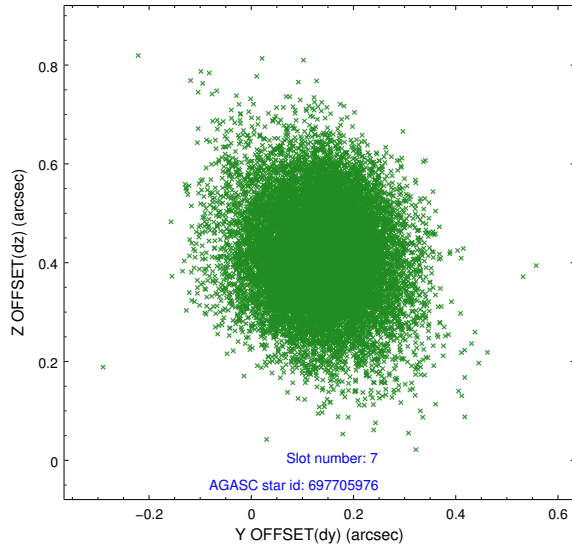
2.4.3 Slot 5



2.4.4 Slot 6

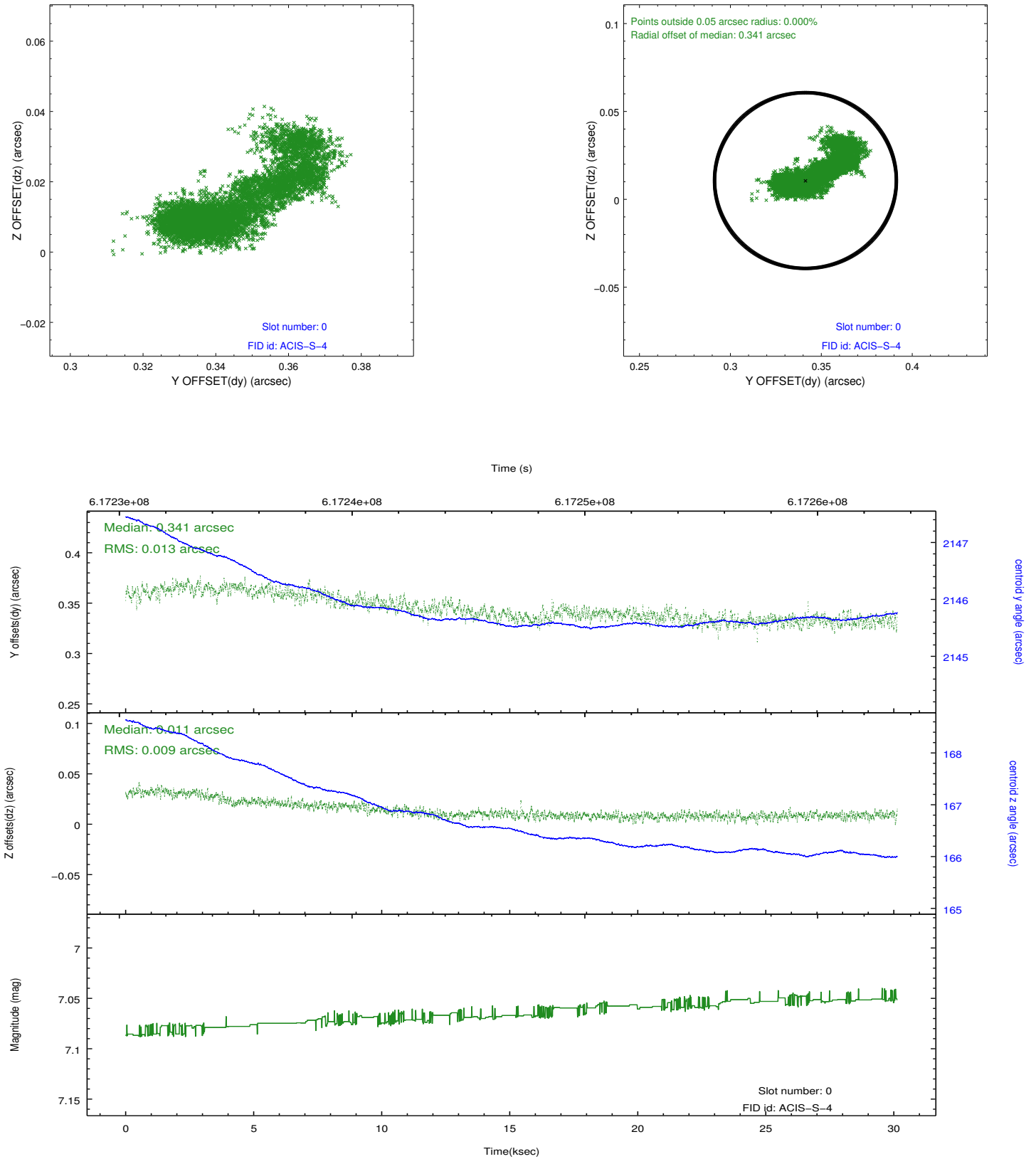


2.4.5 Slot 7

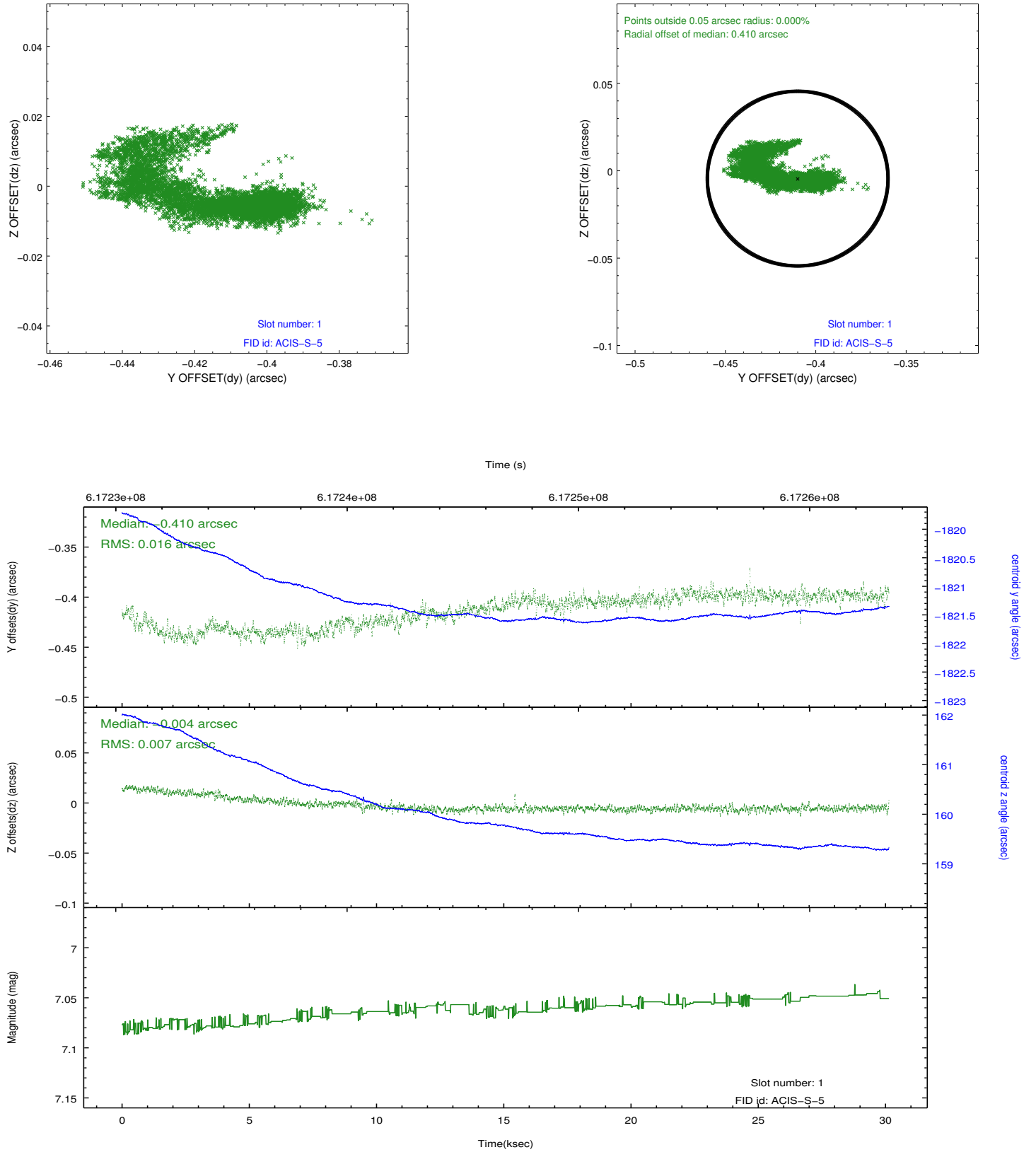


2.5 FID Slots

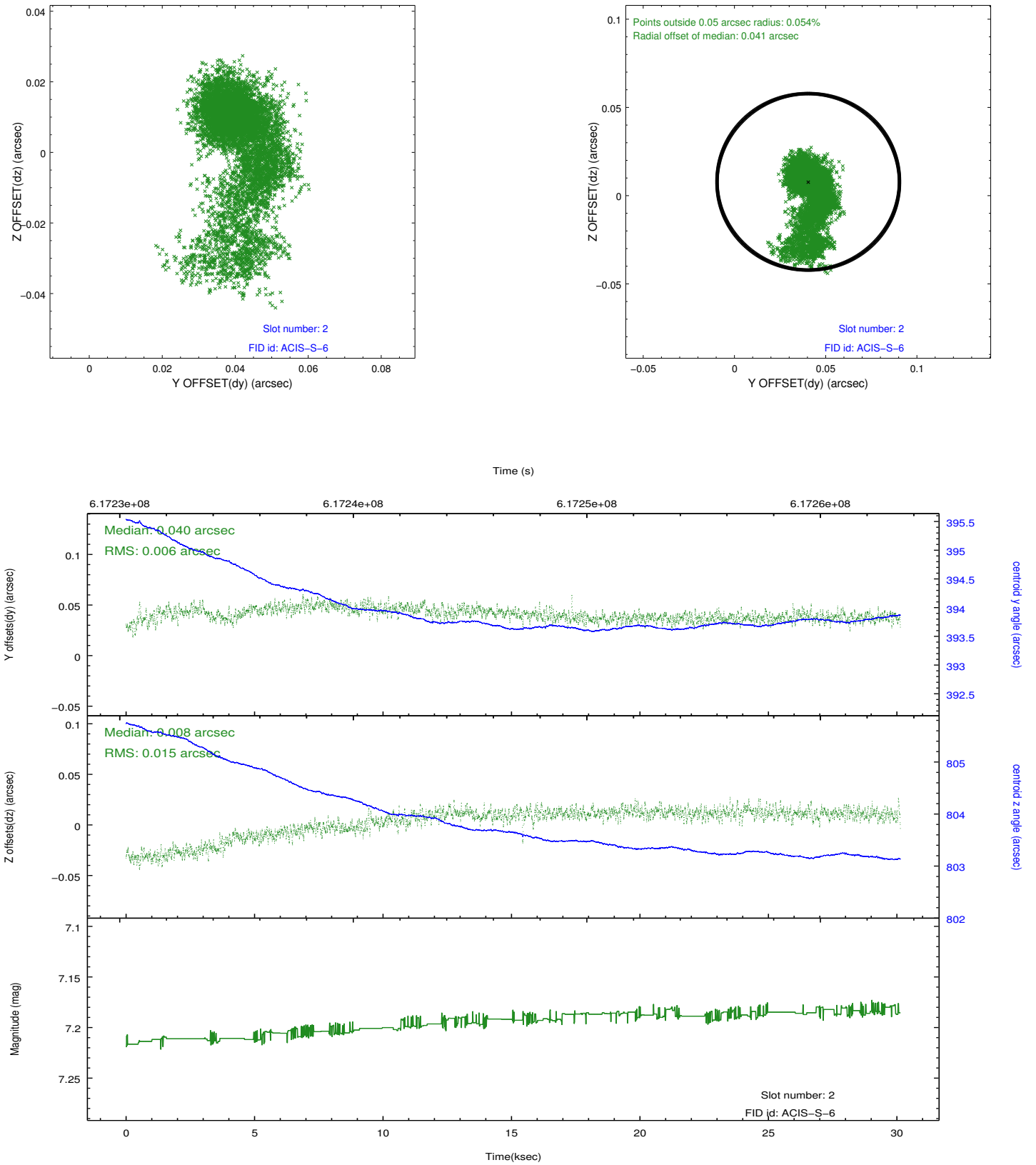
2.5.1 Slot 0



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)	2017.07.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.771358171821

A.2 Comments

Monitor constraint met.