

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 18684 - L2 Version 1
Chandra X-Ray Center

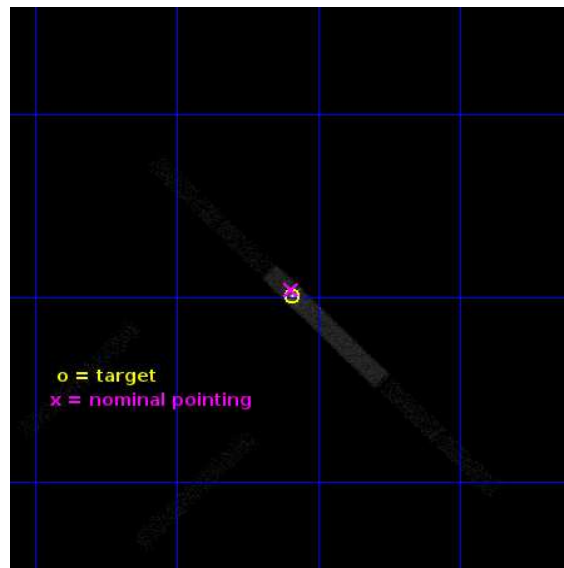
L2 Processing Date : Oct 15 2015

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1 Front

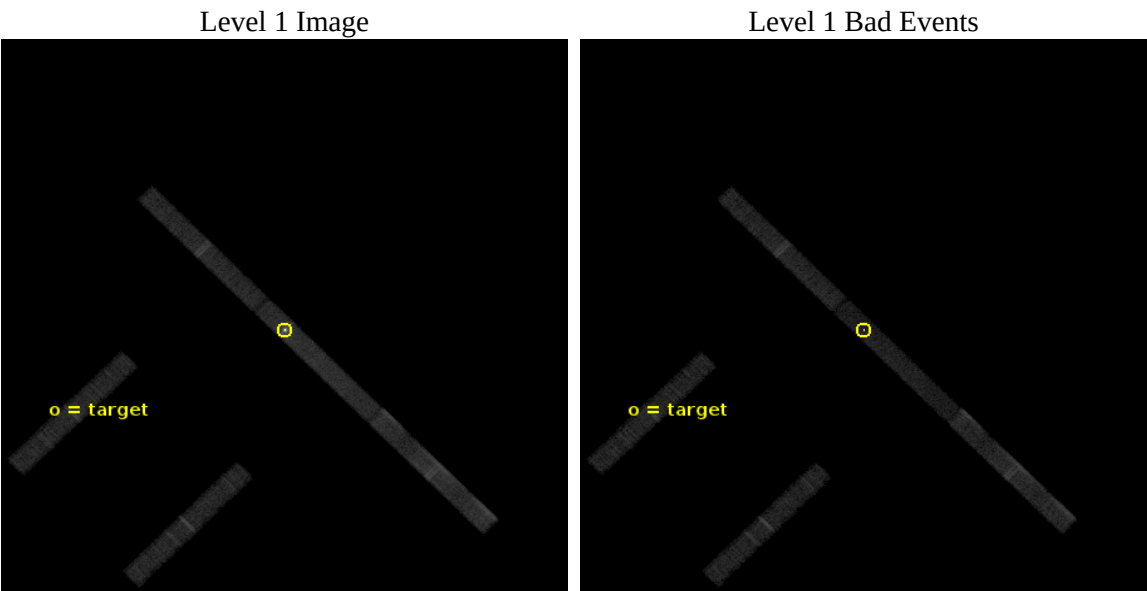
seq_num	703250	Sequence number
obs_id	18684	Observation id
title	Expanding Superbubbles in Luminous AGN: Unifying Chandra with MUSE	
observer	Dr. Grant Tremblay	Principal investigator
object	Mrk 1044	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	37.522917	Observer's specified target RA [deg]
dec_targ	-8.998111	Observer's specified target Dec [deg]
ra_nom	37.523465773091	Nominal RA [deg]
dec_nom	-8.9927055210649	Nominal Dec [deg]
roll_nom	45.156719417994	Nominal Roll [deg]
revision	1	Processing version of data
ontime	44069.903002024	Sum of GTIs [s]
livetime	41629.240123902	Livetime [s]
ontime2	44069.903002024	Sum of GTIs [s]
ontime3	44069.903002024	Sum of GTIs [s]
ontime6	44069.903002024	Sum of GTIs [s]
ontime7	44069.903002024	Sum of GTIs [s]
ontime8	44069.903002024	Sum of GTIs [s]
l2events	88242	Number of level 2 events



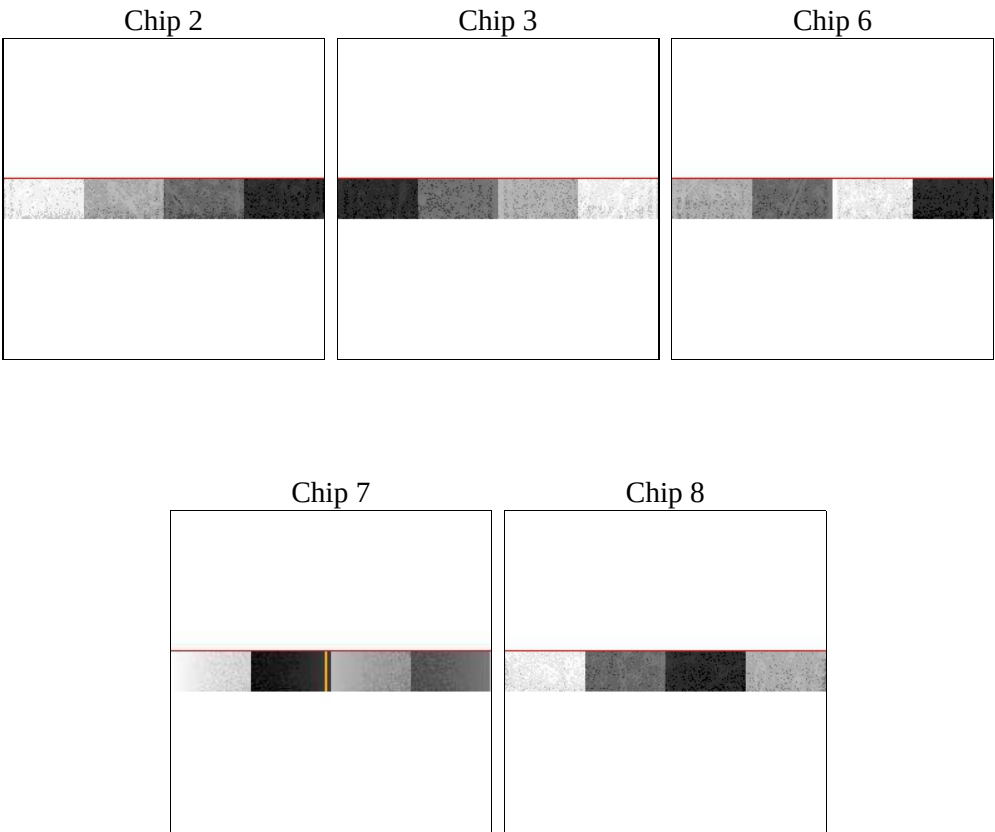
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	44000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	44069.903002024	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime2	44069.903002024	Sum of GTIs [s]
date	2015-10-15T11:44:18	Date and time of file creation	ontime3	44069.903002024	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	44069.903002024	Sum of GTIs [s]
			ontime7	44069.903002024	Sum of GTIs [s]
			ontime8	44069.903002024	Sum of GTIs [s]
			l1events	293540	Number of level 1 events

2.1.4 Events

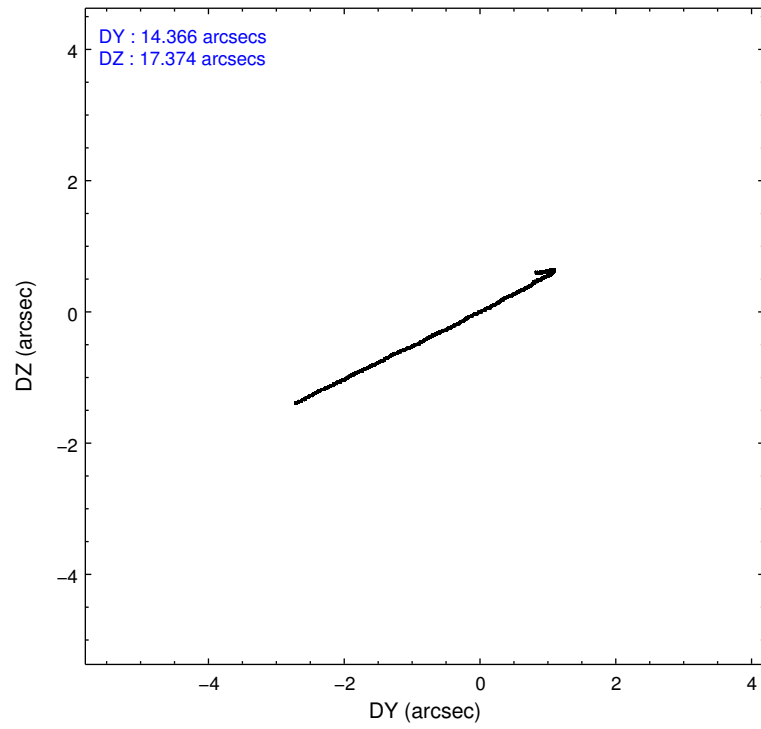
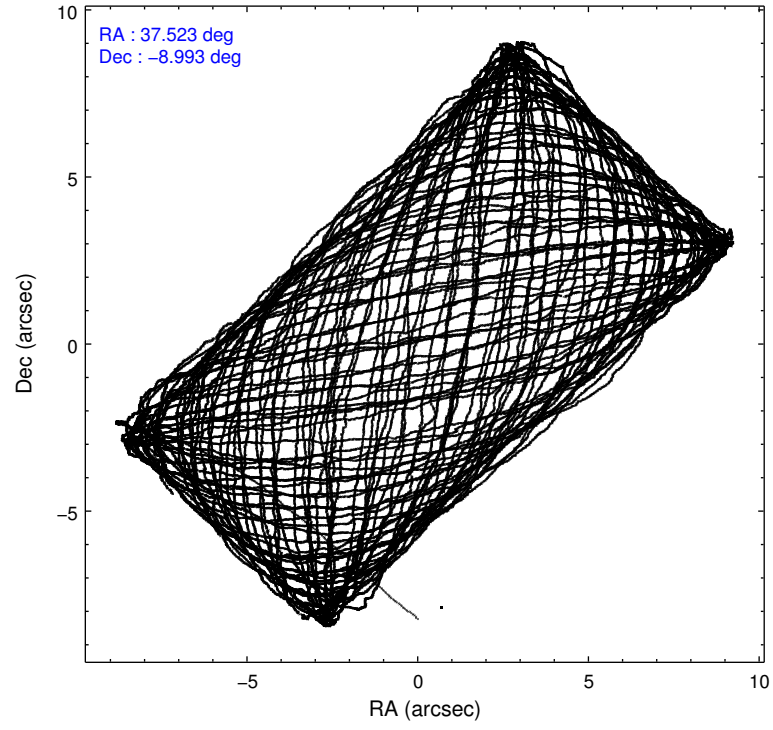
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	37392	36680	39038	124001	56429
rejected events	33517	32839	34708	48339	43904
rejected %	89%	89%	88%	38%	77%

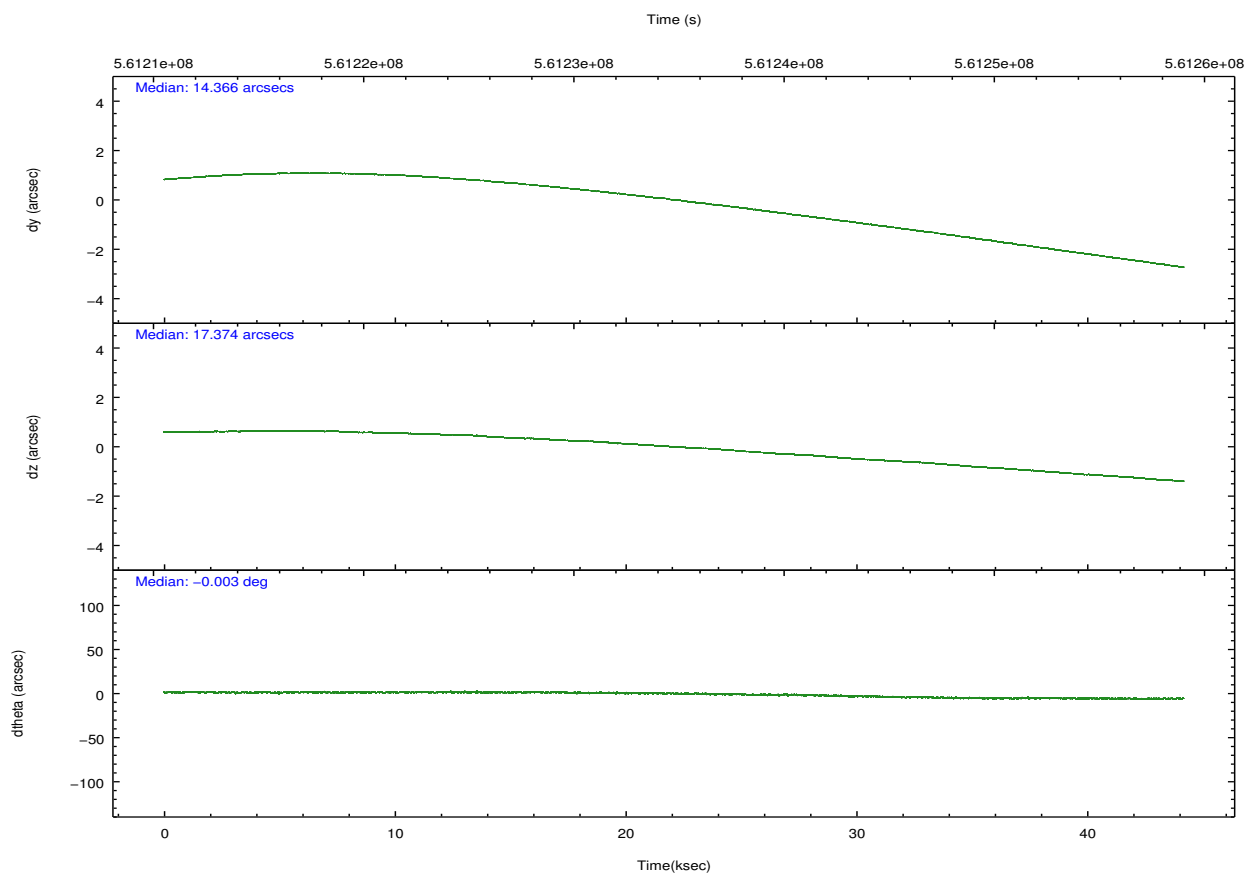
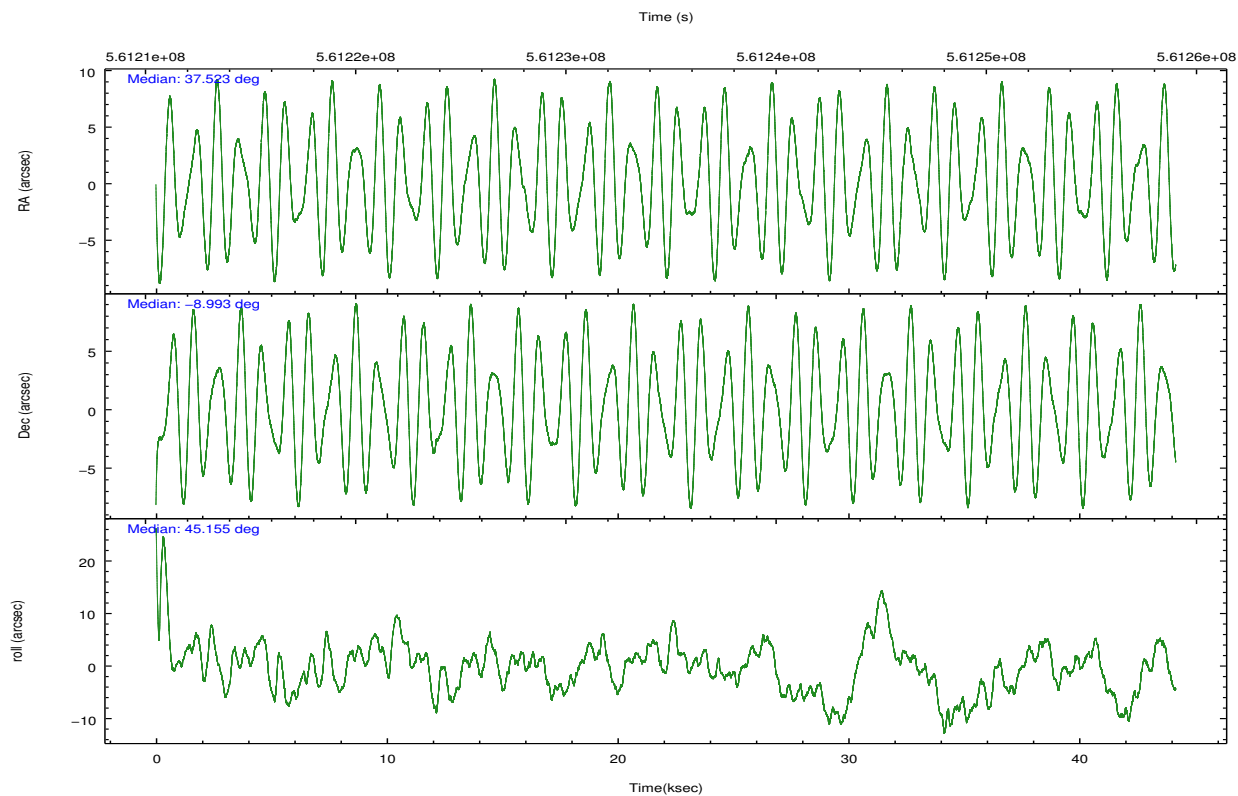
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1100	1089	1173	15730	2967
	2%	2%	3%	12%	5%
grade 1 events	10	12	12	1727	17
	0%	0%	0%	1%	0%
grade 2 events	716	747	824	16357	2738
	1%	2%	2%	13%	4%
grade 3 events	682	676	692	7648	1369
	1%	1%	1%	6%	2%
grade 4 events	670	582	702	7380	1378
	1%	1%	1%	5%	2%
grade 5 events	1195	1594	1629	11579	2353
	3%	4%	4%	9%	4%
grade 6 events	707	747	939	28551	4073
	1%	2%	2%	23%	7%
grade 7 events	32312	31233	33067	35029	41534
	86%	85%	84%	28%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	37.516716	37.52346577309058	CCD I2 on	O1	Y
[deg] Pointing Dec	-9.019321	-8.992705521064934	CCD I3 on	Y	Y
[deg] Pointing Roll	44.999033	45.15671941799364	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	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)	561212827.184000	561211267.94319	CCD S5 on	N	N
Observation start date	2015-10-14T12:25:59	2015-10-14T12:01:07	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	561256827.184000	561257741.44582	On-chip summing requested	N	N
Observation end date	2015-10-15T00:39:19	2015-10-15T00:55:41	Subarray requested	CUSTOM	1/8
Read mode	TIMED	TIMED	Subarray start row	449	449
			Subarray row count	128	128
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0.7

2.3 Aspect



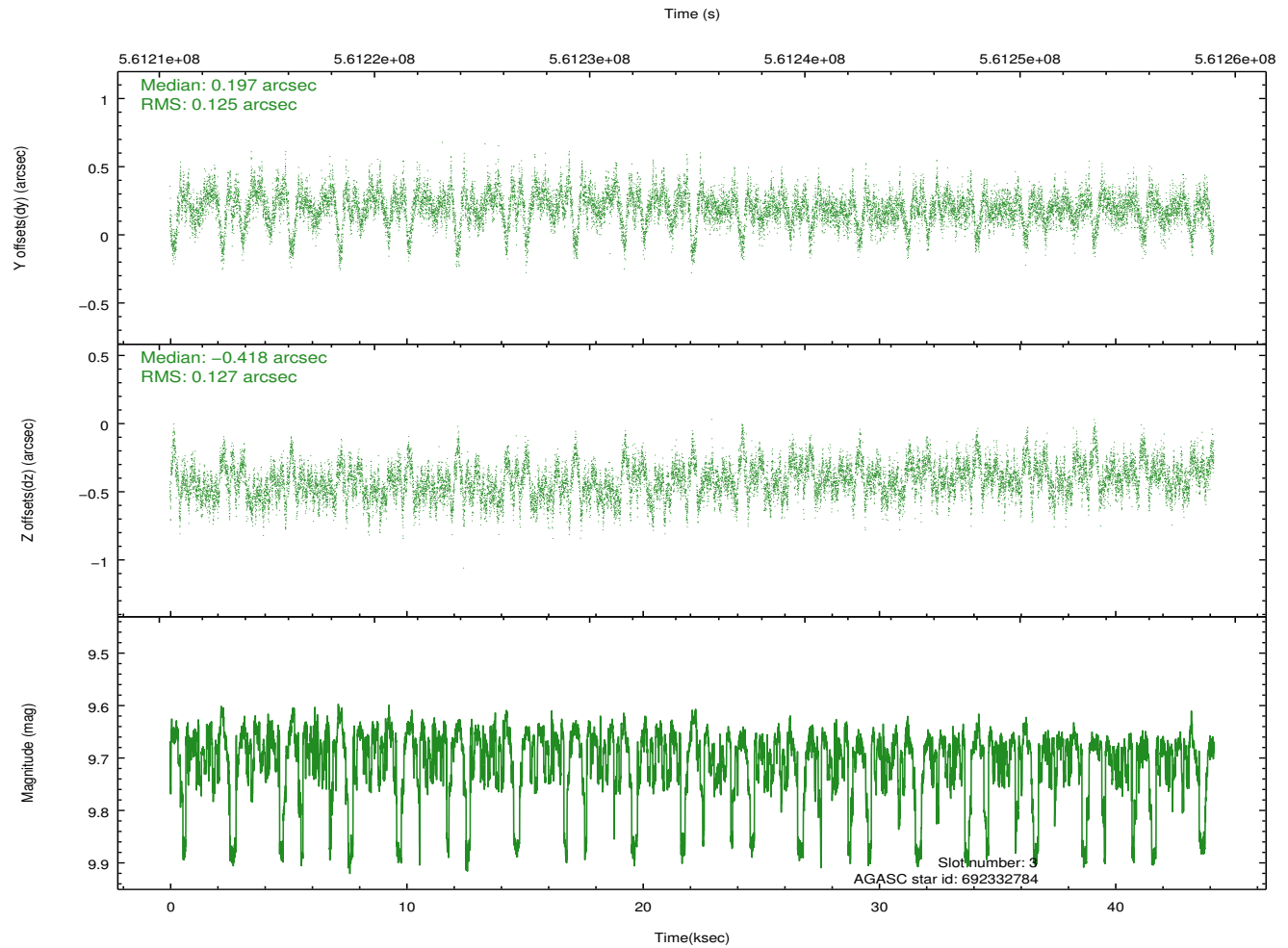
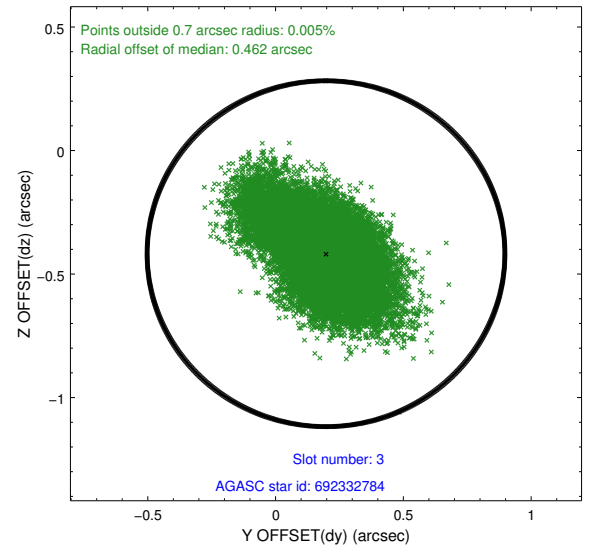
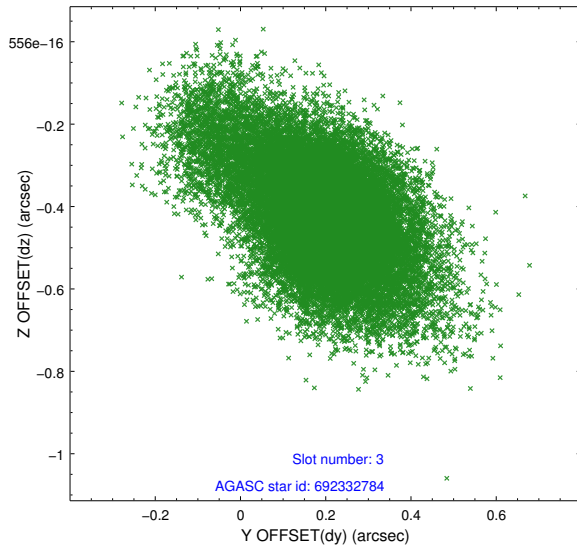


Slot Statistics

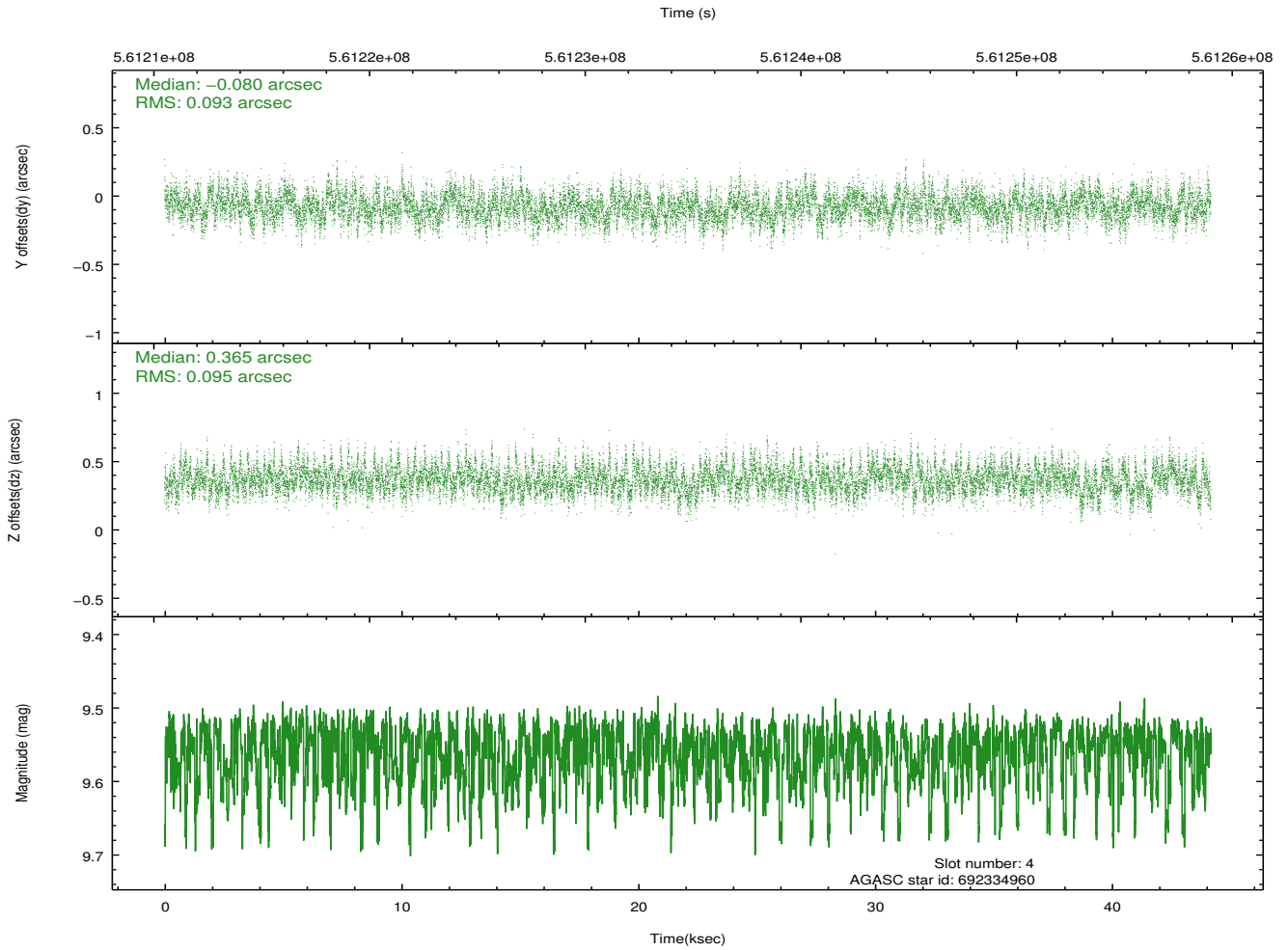
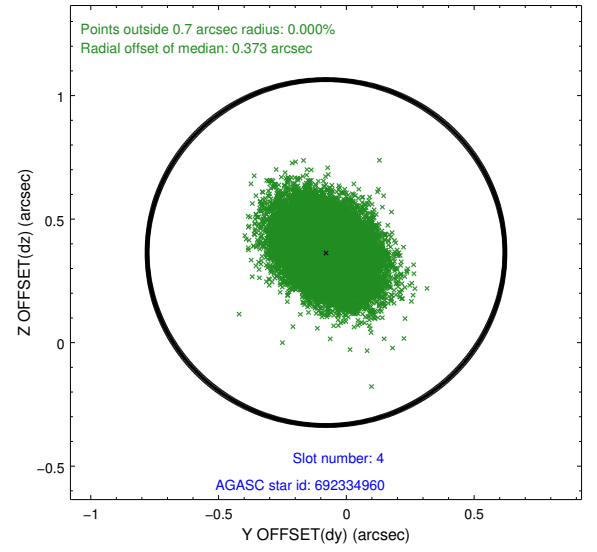
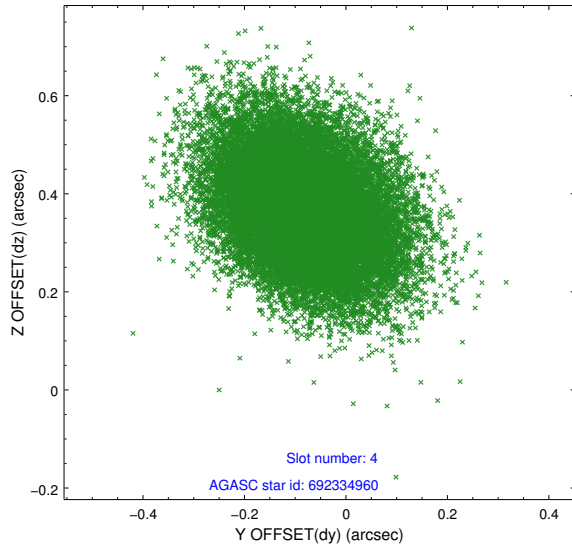
lot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.12	10777	-0.152	-0.122	0.040	0.073	0.000000	0.000000	-767.19	-1738.75
1	FID		ACIS-S-4	7.22	10776	0.426	0.106	0.030	0.081	0.000000	0.000000	2146.65	169.93
2	FID		ACIS-S-5	7.24	10777	-0.302	0.026	0.017	0.062	0.000000	0.000000	-1820.17	163.54
3	GUIDE	used	692332784	9.69	21529	0.197	-0.418	0.179	0.333	37.078504	-9.403848	-2079.44	120.48
4	GUIDE	used	692334960	9.56	21537	-0.080	0.365	0.140	0.231	38.103081	-8.961434	1619.11	-1327.68
5	GUIDE	used	692338128	8.22	21551	0.031	0.114	0.089	0.145	37.441699	-9.399268	-1154.82	-778.58
6	BAD	used	692716000	10.20	20151	-0.277	-0.223	0.263	0.427	38.344962	-9.004889	2115.48	-2048.48
7	GUIDE	used	692327352	9.10	21541	0.077	0.149	0.222	0.392	37.165312	-9.595949	-2349.42	-586.06

2.4 Star Slots

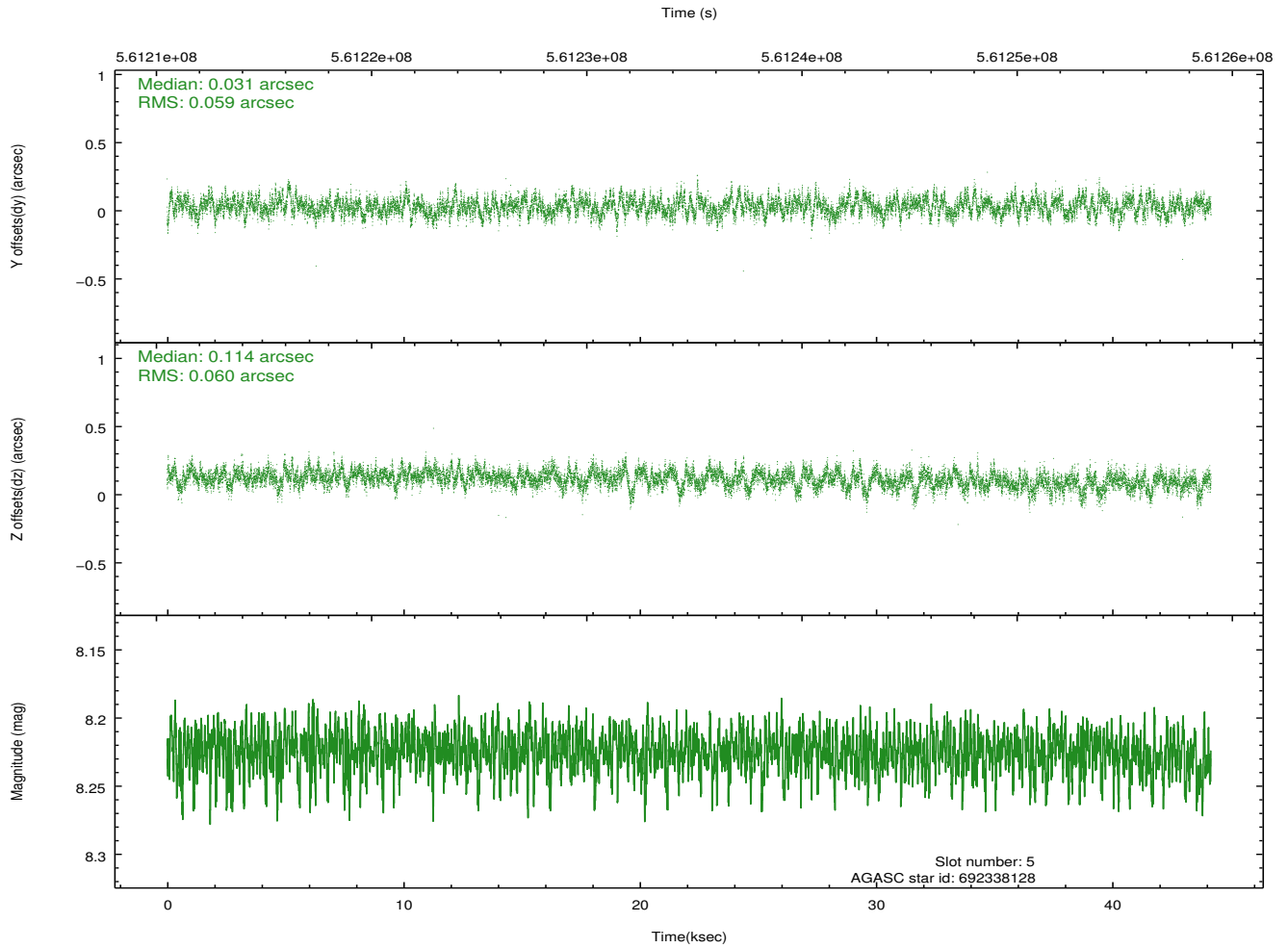
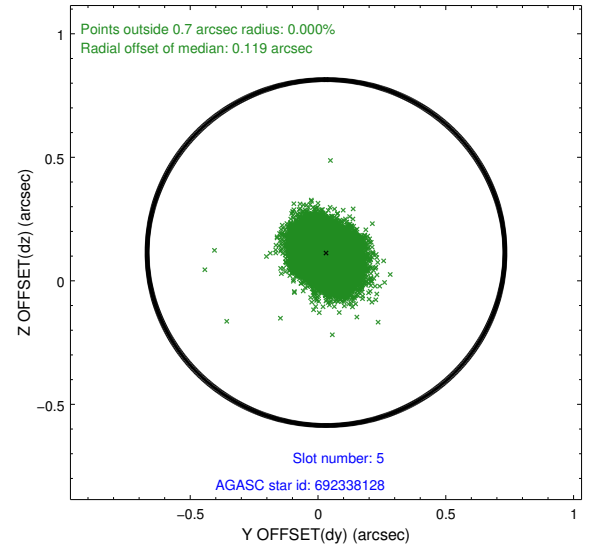
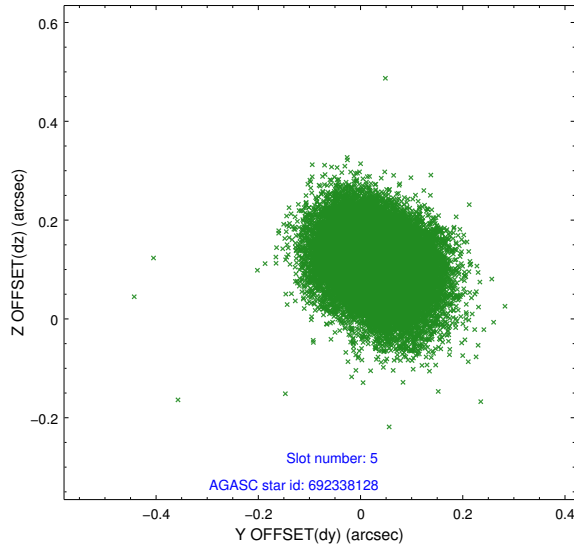
2.4.1 Slot 3



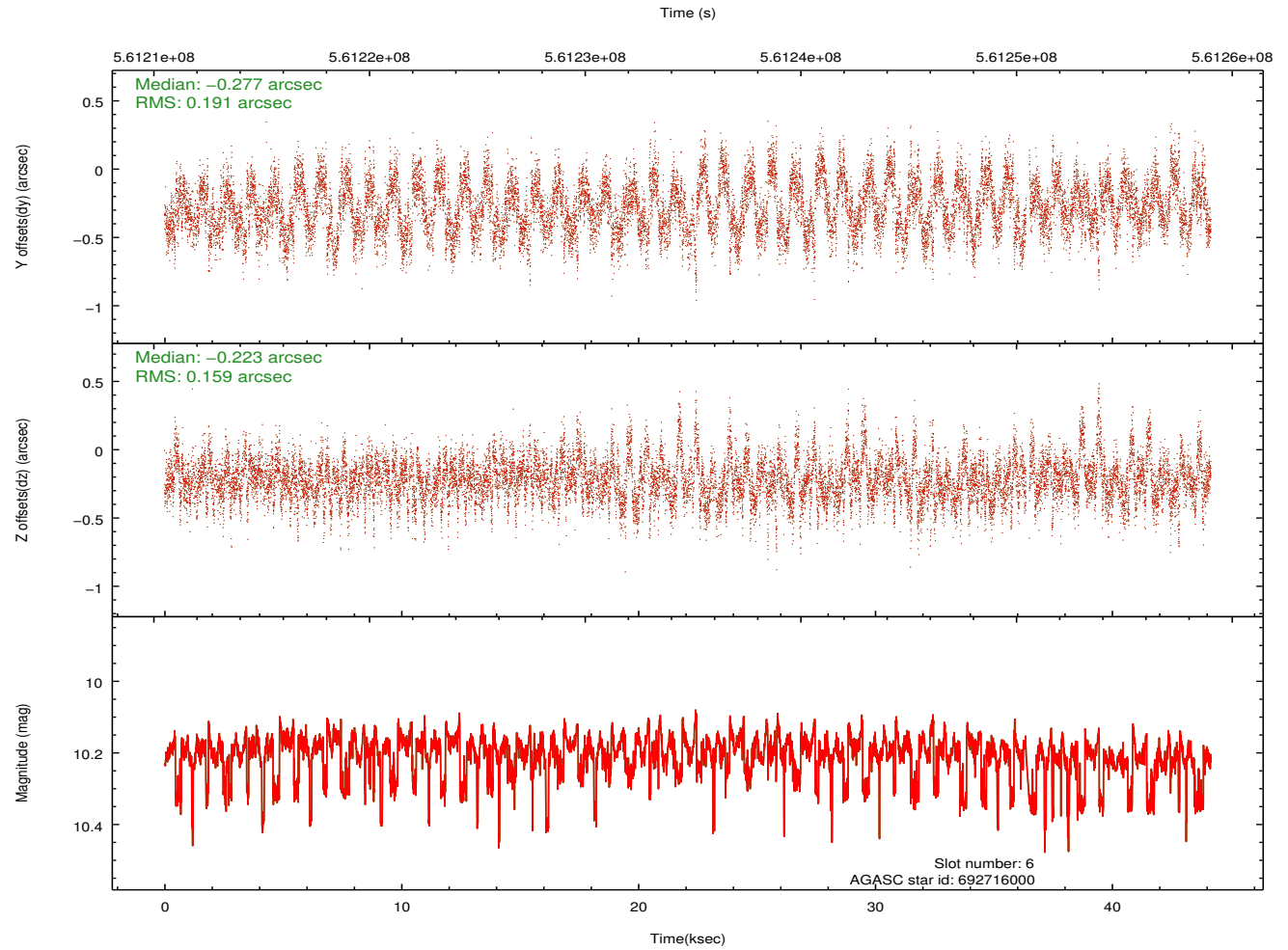
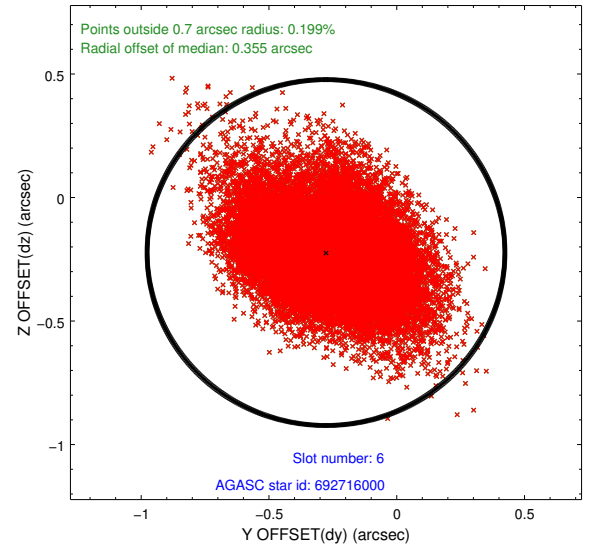
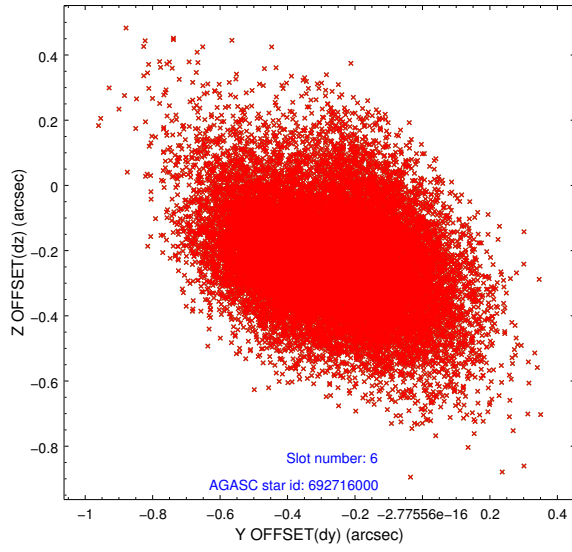
2.4.2 Slot 4



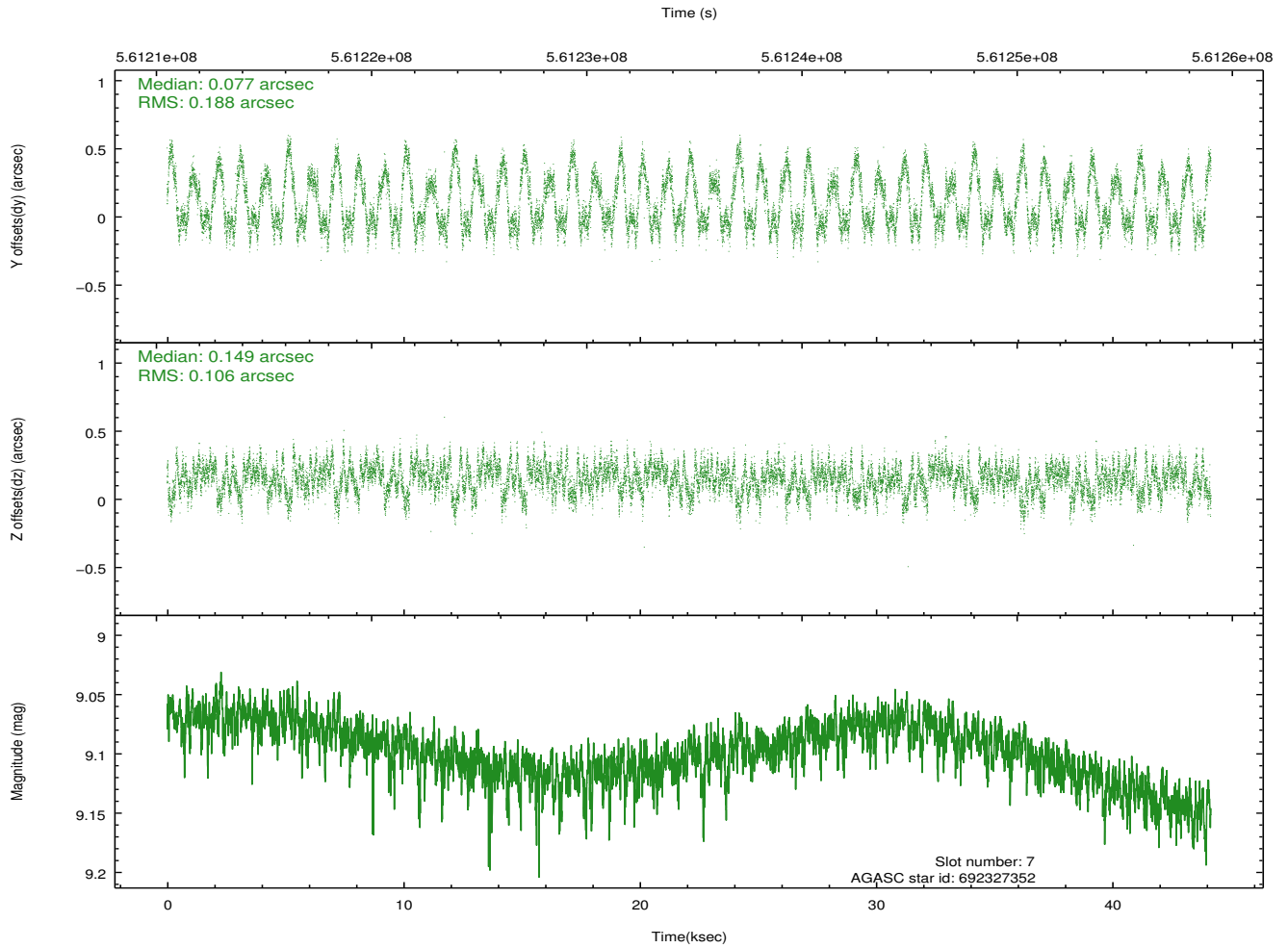
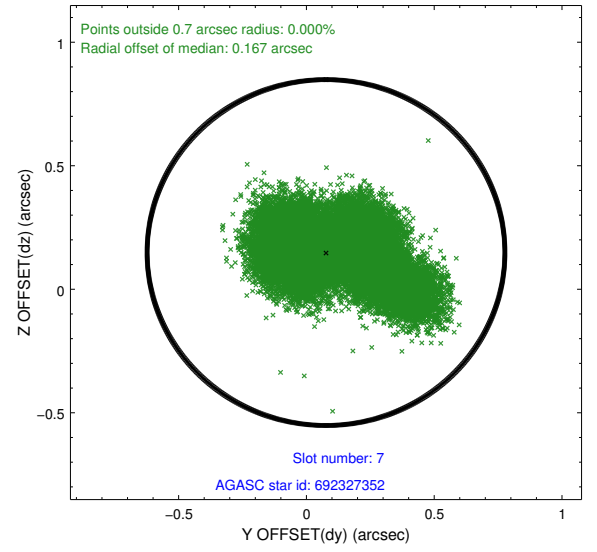
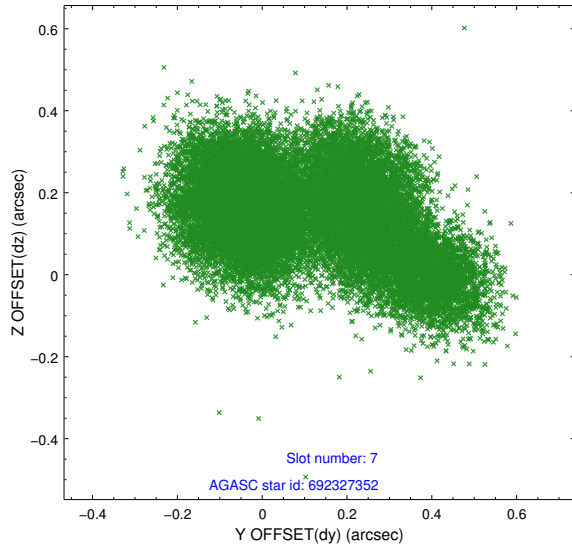
2.4.3 Slot 5



2.4.4 Slot 6

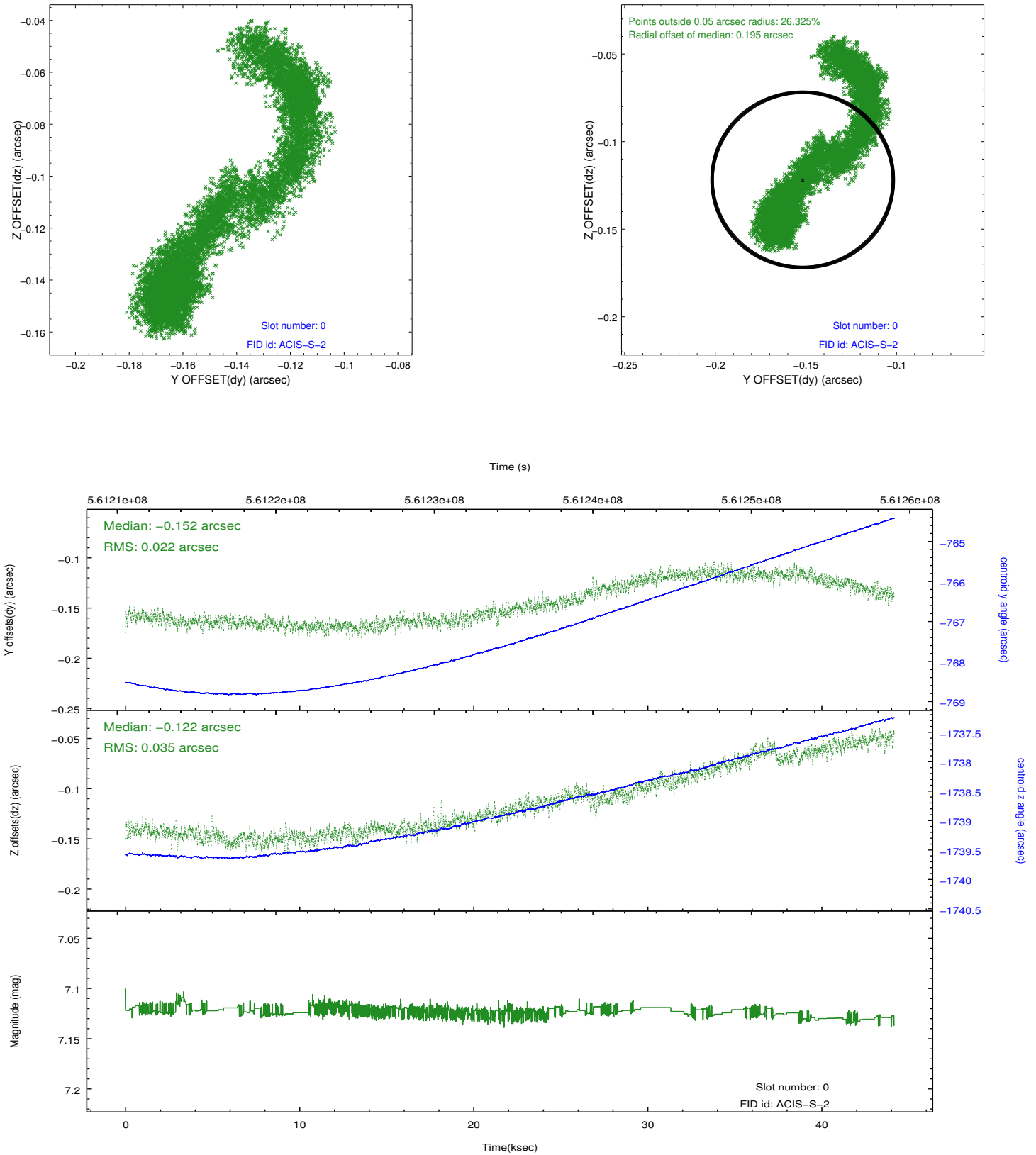


2.4.5 Slot 7

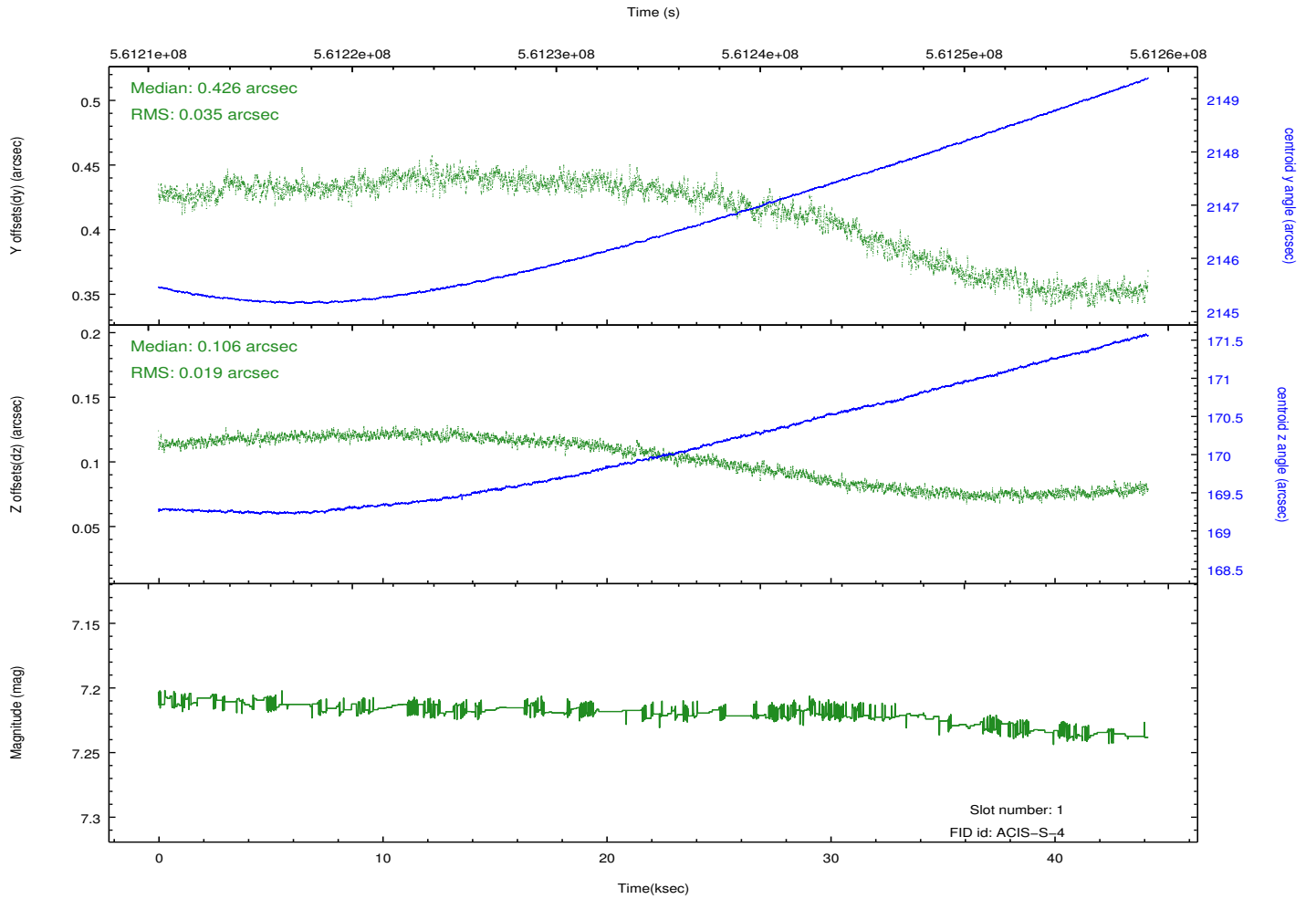
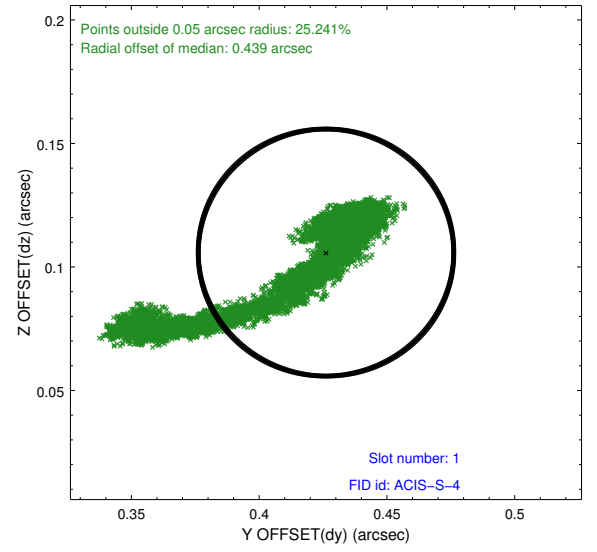
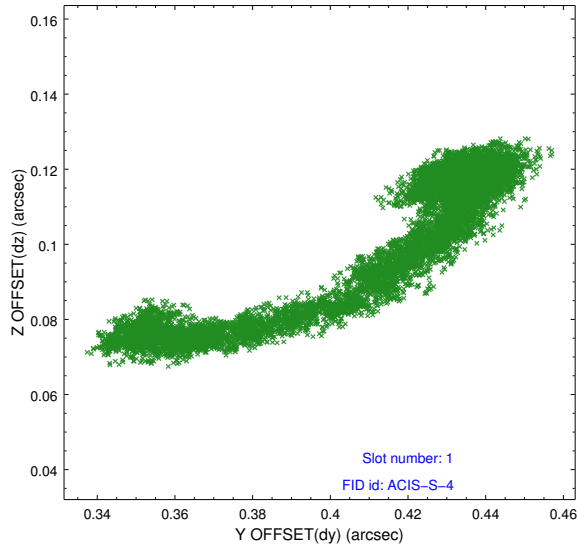


2.5 FID Slots

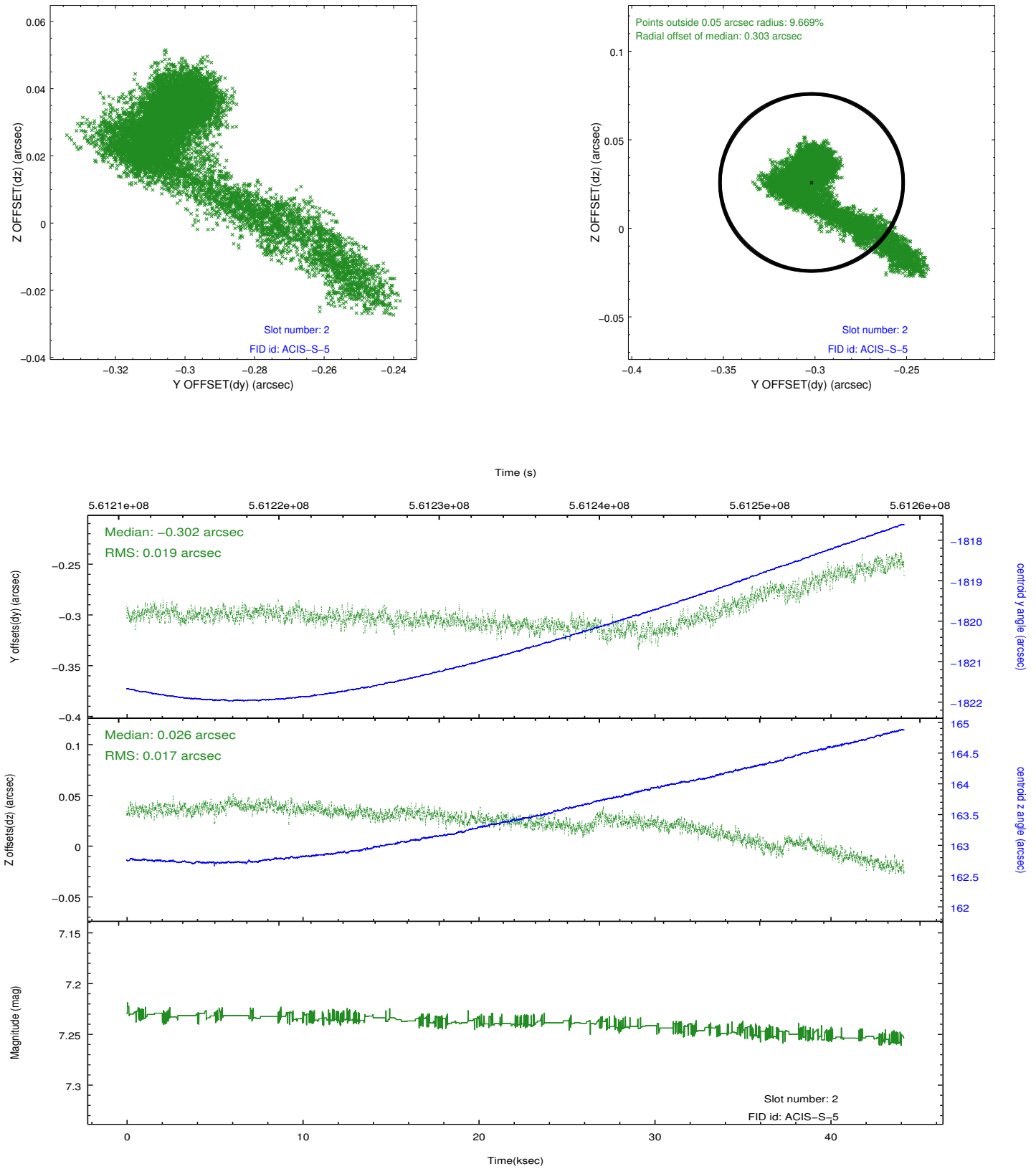
2.5.1 Slot 0



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)	2015.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	44.069903002024

A.2 Comments