

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19964 - L2 Version 1
Chandra X-Ray Center

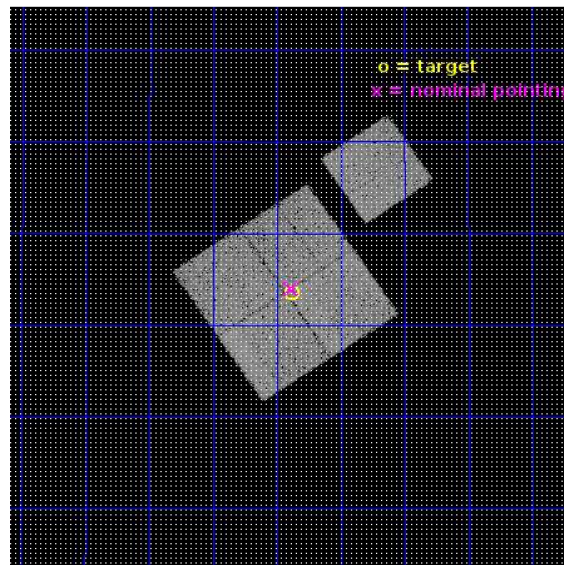
L2 Processing Date : Dec 25 2016

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1 Front

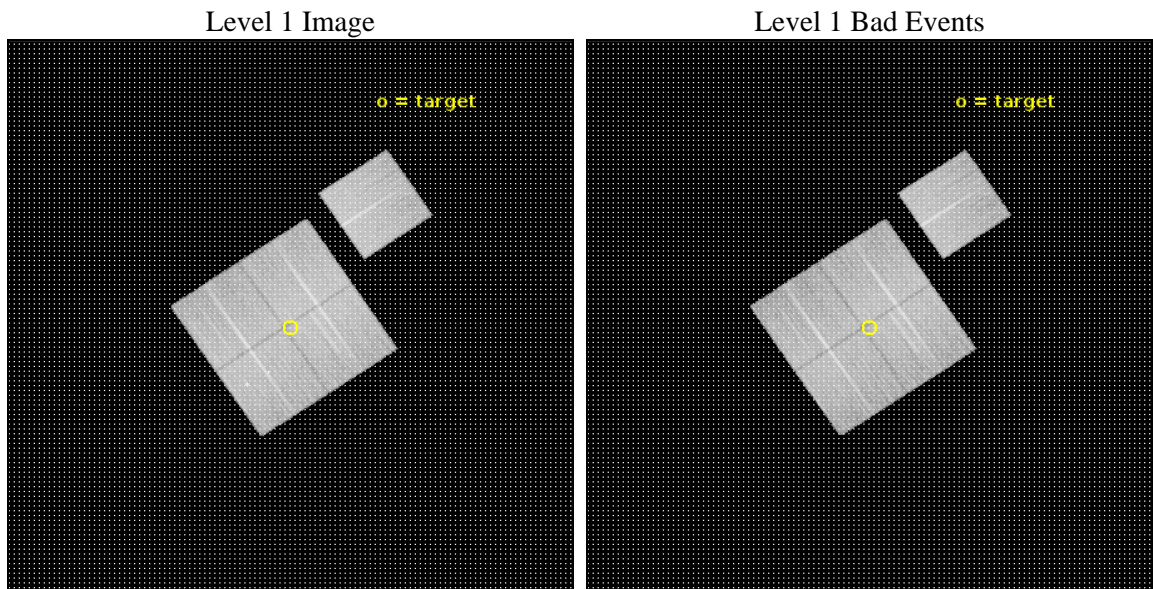
seq_num	801501	Sequence number
obs_id	19964	Observation id
title	Chandra mapping of the cosmic web converging on the virialization region of Abell 1795	Proposal title
observer	Dr Alexey Vikhlinin	Principal investigator
object	Abell 1795 outskirts	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.21997	Observer's specified target RA [deg]
dec_targ	27.058054	Observer's specified target Dec [deg]
ra_nom	207.22154715039	Nominal RA [deg]
dec_nom	27.066584000921	Nominal Dec [deg]
roll_nom	56.207969839373	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25397.412053585	Sum of GTIs [s]
livetime	25065.576167802	Livetime [s]
ontime0	25397.288933635	Sum of GTIs [s]
ontime1	25394.189003348	Sum of GTIs [s]
ontime2	25397.371013641	Sum of GTIs [s]
ontime3	25397.412053585	Sum of GTIs [s]
ontime6	25394.106903553	Sum of GTIs [s]
l2events	86786	Number of level 2 events



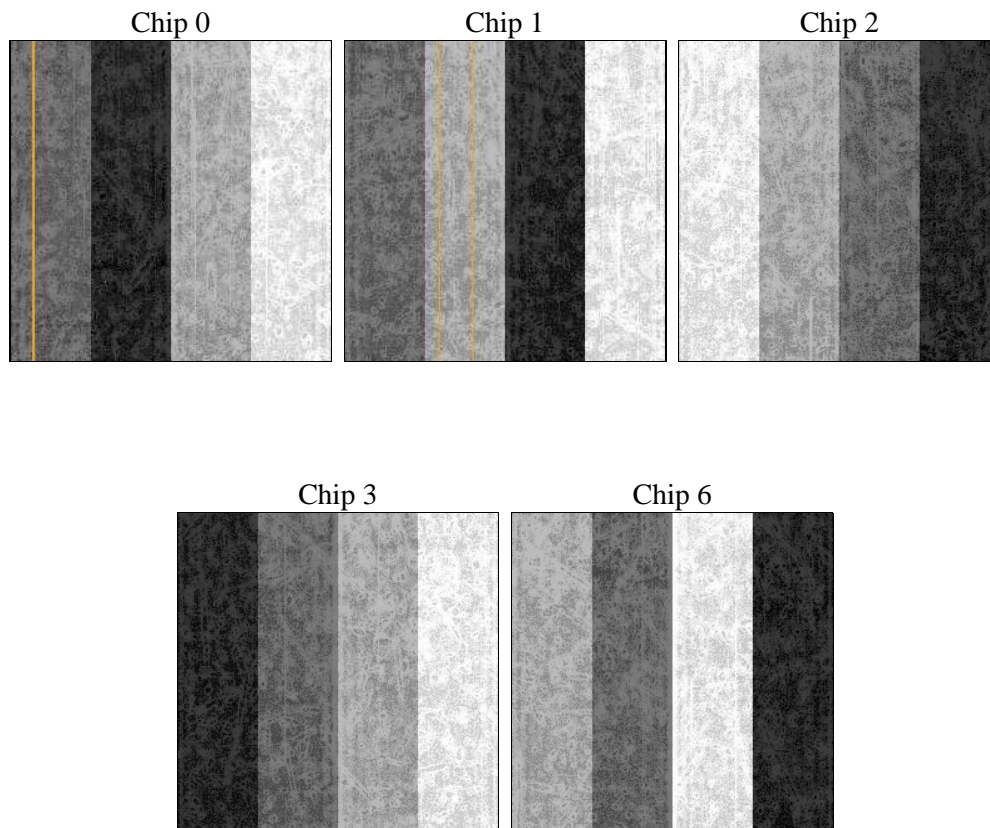
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25325.687000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	25397.412053585	Sum of GTIs [s]
caldbver	4.7.3	 	ontime0	25397.288933635	Sum of GTIs [s]
date	2016-12-25T17:59:48	Date and time of file creation	ontime1	25394.189003348	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25397.371013641	Sum of GTIs [s]
			ontime3	25397.412053585	Sum of GTIs [s]
			ontime6	25394.106903553	Sum of GTIs [s]
			l1events	821445	Number of level 1 events

2.1.4 Events

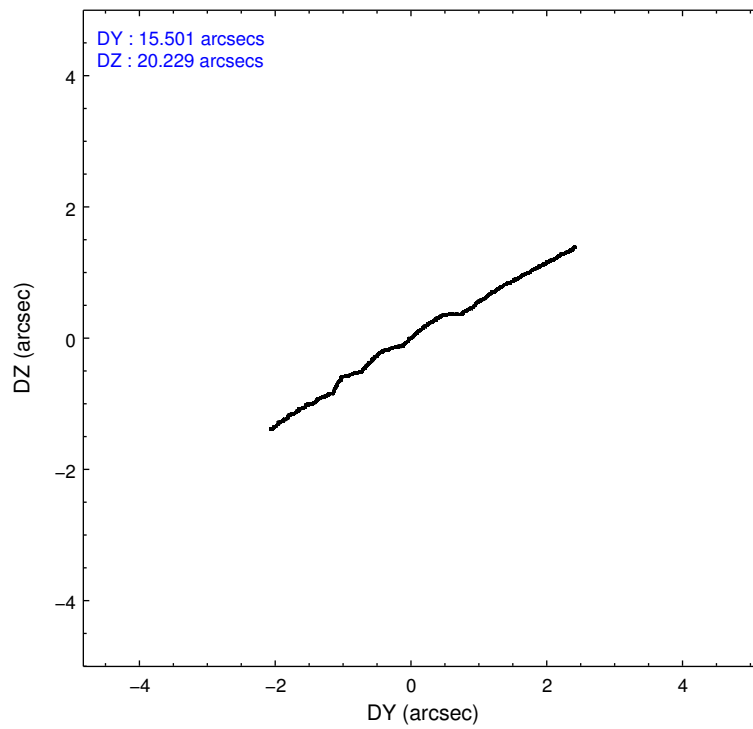
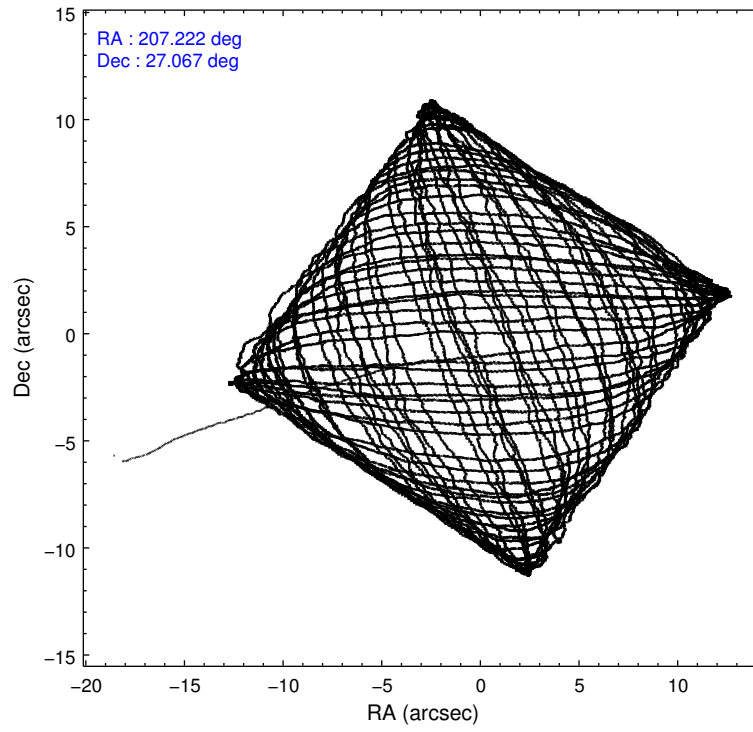
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	151660	159990	169546	167084	173165
rejected events	131456	135972	150084	147062	153102
rejected %	86%	84%	88%	88%	88%

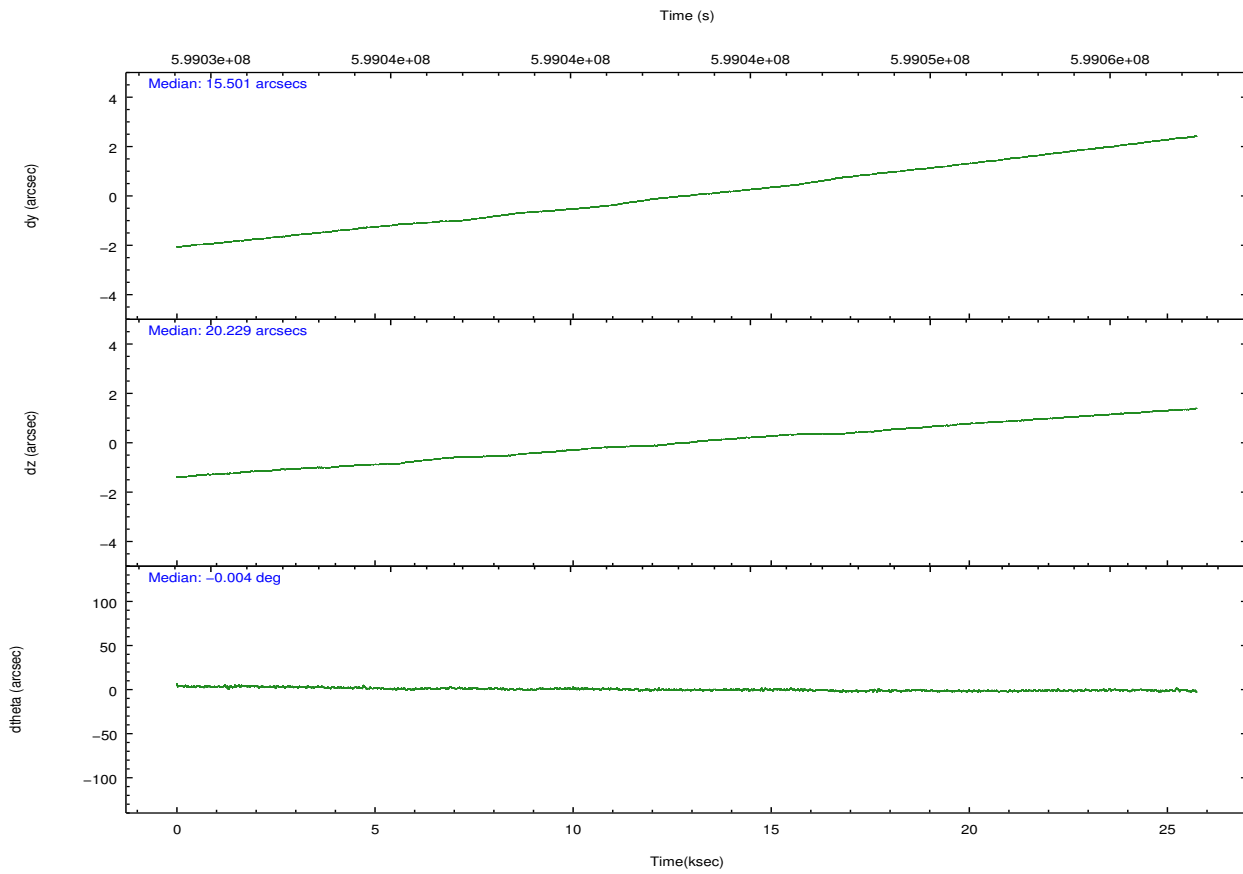
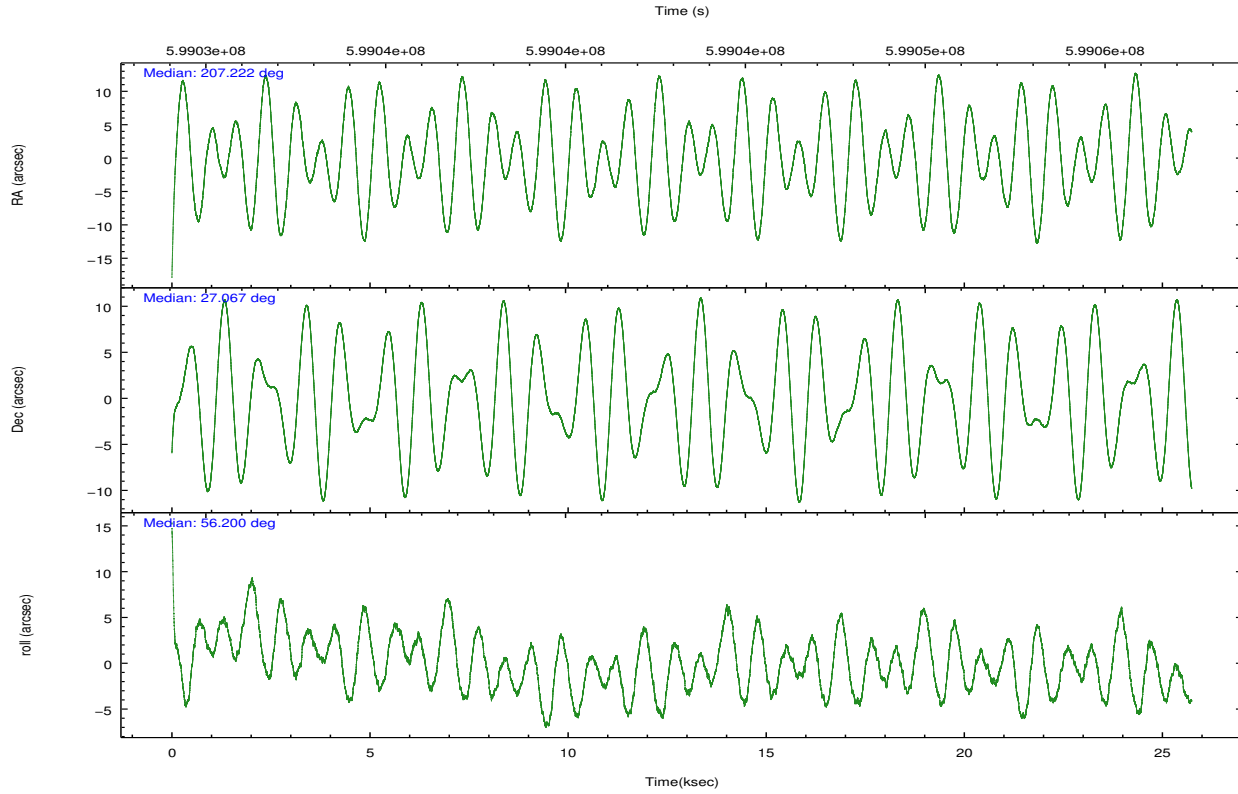
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	6904	9560	6918	7668	6606
	4%	5%	4%	4%	3%
grade 1 events	86	91	90	101	84
	0%	0%	0%	0%	0%
grade 2 events	5080	5512	4838	4386	4875
	3%	3%	2%	2%	2%
grade 3 events	2089	2074	1954	2002	1967
	1%	1%	1%	1%	1%
grade 4 events	1925	2081	1953	1940	1935
	1%	1%	1%	1%	1%
grade 5 events	7473	7753	7139	8373	8149
	4%	4%	4%	5%	4%
grade 6 events	4209	4793	3806	4030	4684
	2%	2%	2%	2%	2%
grade 7 events	123894	128126	142848	138584	144865
	81%	80%	84%	82%	83%

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	207.219590	207.221547150386	CCD I2 on	Y	Y
[deg] Pointing Dec	27.039025	27.06658400092075	CCD I3 on	Y	Y
[deg] Pointing Roll	56.000170	56.20796983937284	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)	599030765.184000	599029654.15447	CCD S5 on	N	N
Observation start date	2016-12-25T05:24:57	2016-12-25T05:07:34	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	599056091.184000	599056323.11851	On-chip summing requested	N	N
Observation end date	2016-12-25T12:27:03	2016-12-25T12:32:03	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





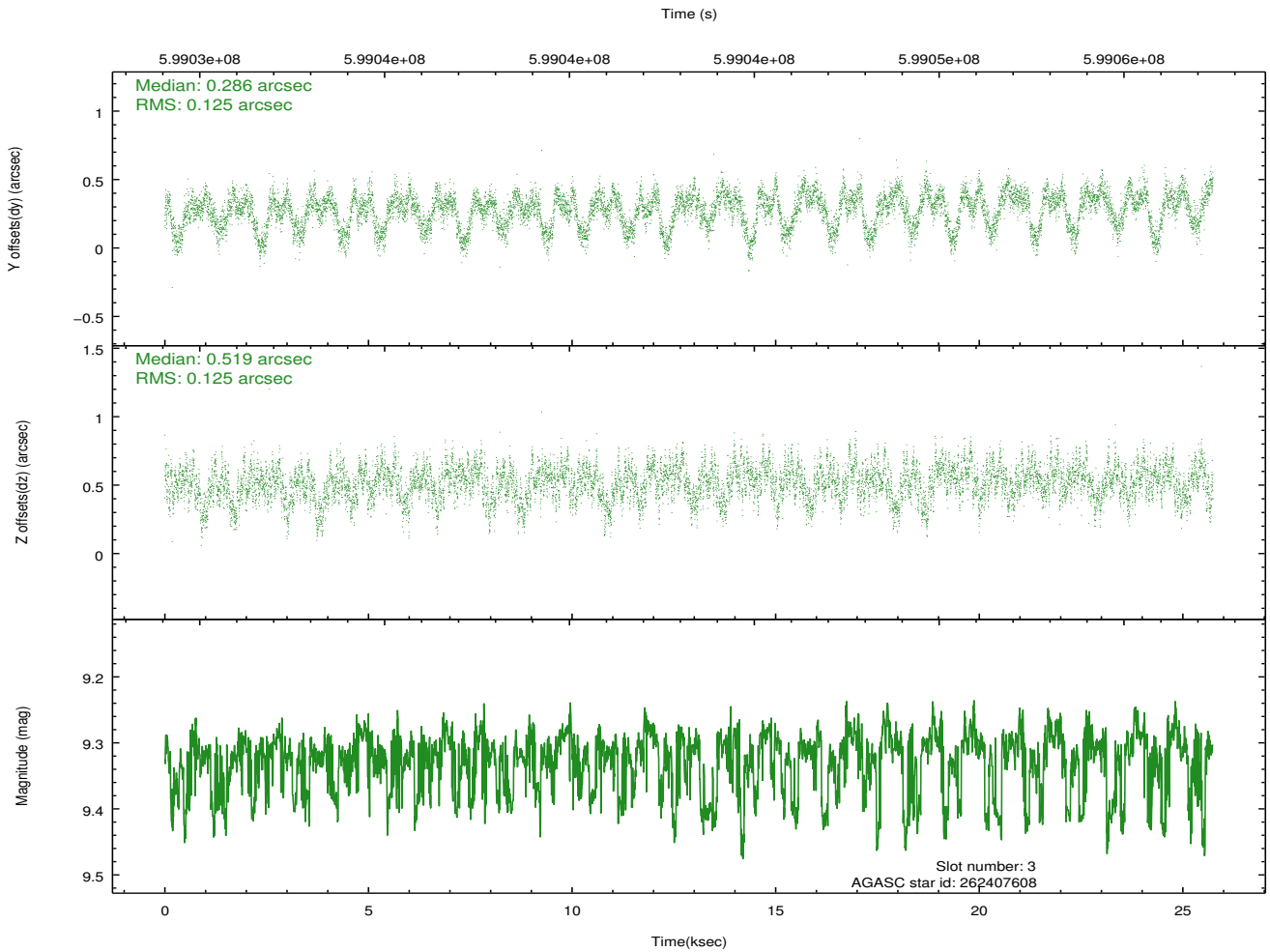
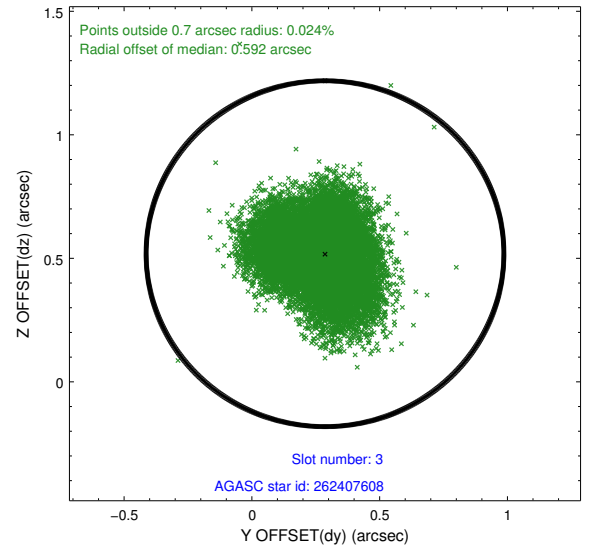
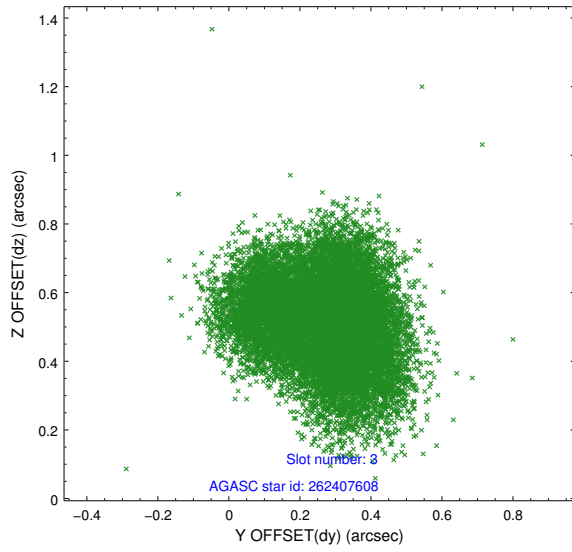
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	6.94	6278	-0.197	-0.049	0.020	0.034	0.000000	0.000000	-770.46	-850.41
1	FID		ACIS-I-4	6.98	6277	0.425	0.120	0.026	0.061	0.000000	0.000000	2144.10	1055.98
2	FID		ACIS-I-5	7.02	6279	-0.325	0.000	0.027	0.060	0.000000	0.000000	-1824.36	1053.69
3	GUIDE	used	262407608	9.32	12534	0.286	0.519	0.193	0.297	207.378401	26.435507	-1513.98	-1638.83
4	GUIDE	used	262408096	9.31	12549	0.147	0.412	0.180	0.275	207.011678	26.515421	-1936.63	-497.55
5	GUIDE	used	262409552	8.15	12553	-0.103	-0.533	0.110	0.187	206.584269	27.192805	-675.07	1998.65
6	GUIDE	used	262275256	7.69	12553	-0.109	-0.509	0.101	0.171	206.467522	27.226414	-781.34	2377.03
7	GUIDE	used	262408512	7.98	12551	-0.215	0.114	0.094	0.157	207.800210	27.128796	1311.85	-1358.31

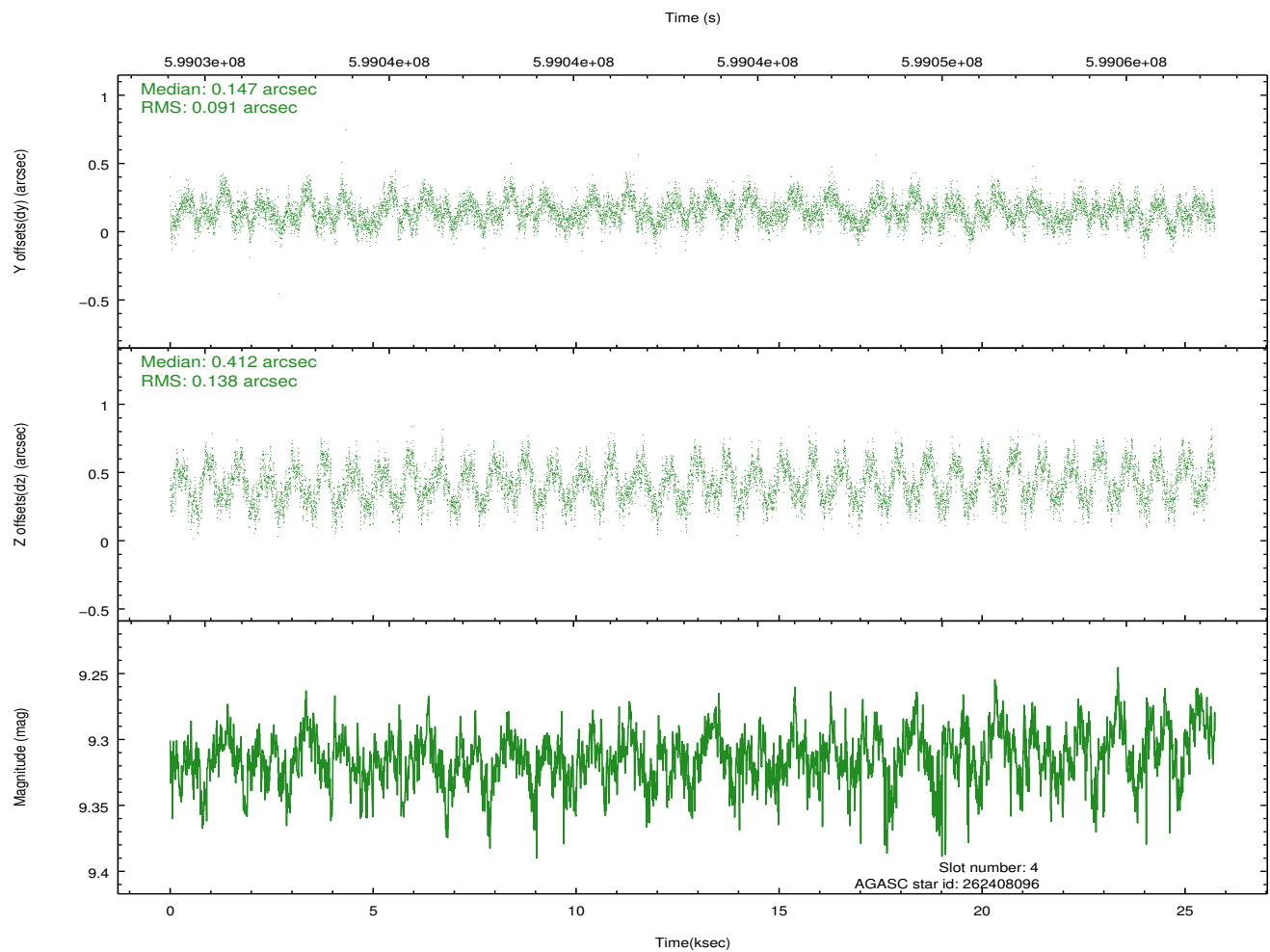
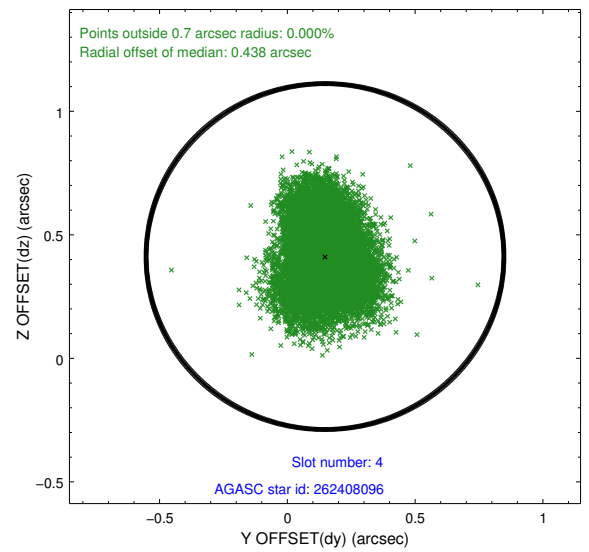
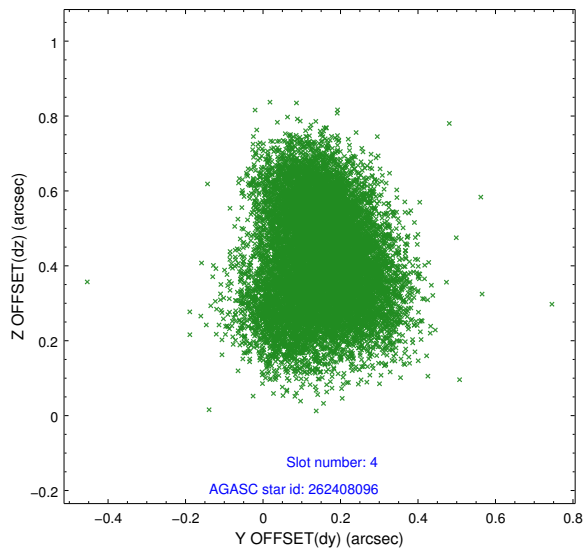
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2.4 Star Slots

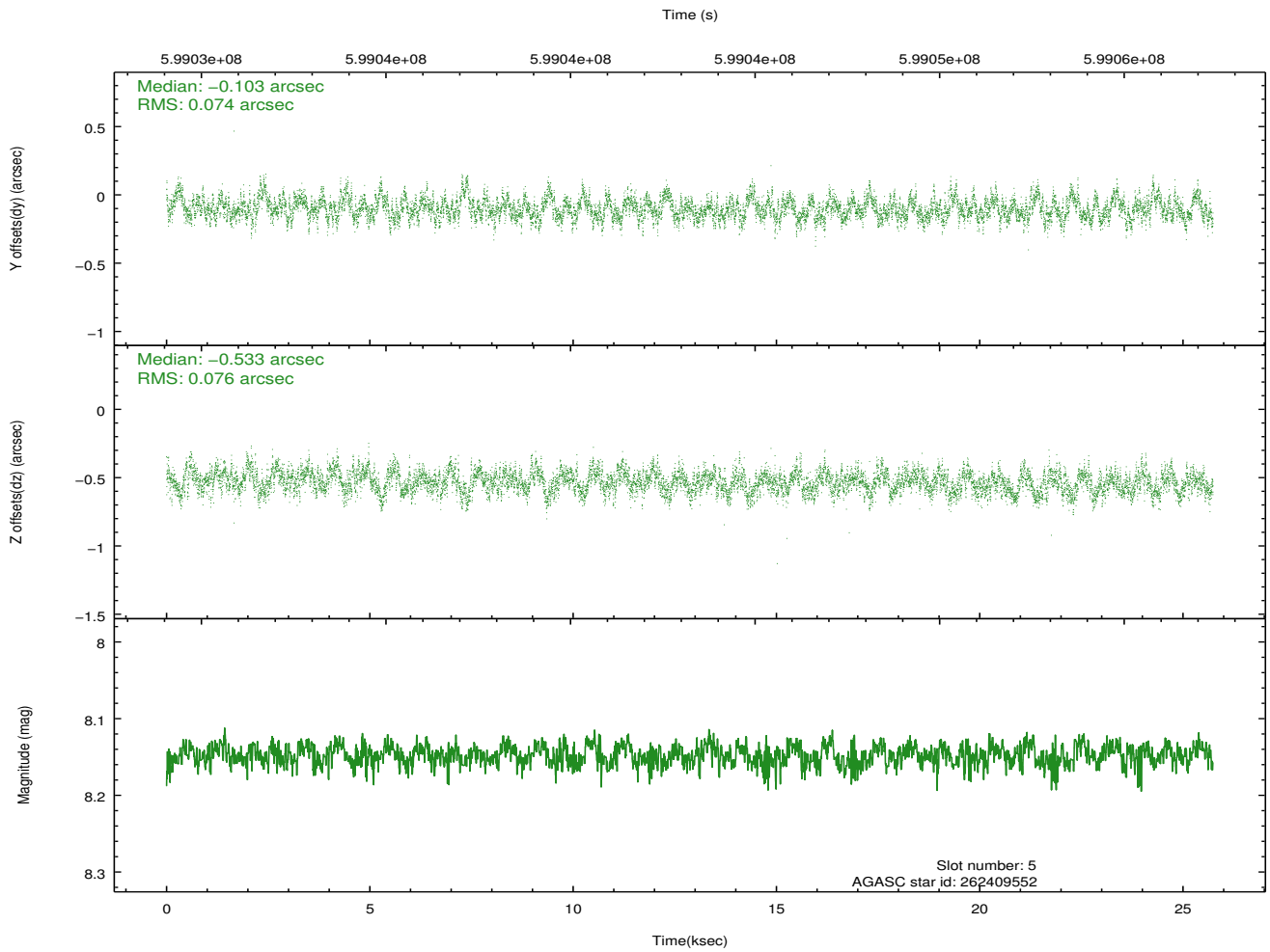
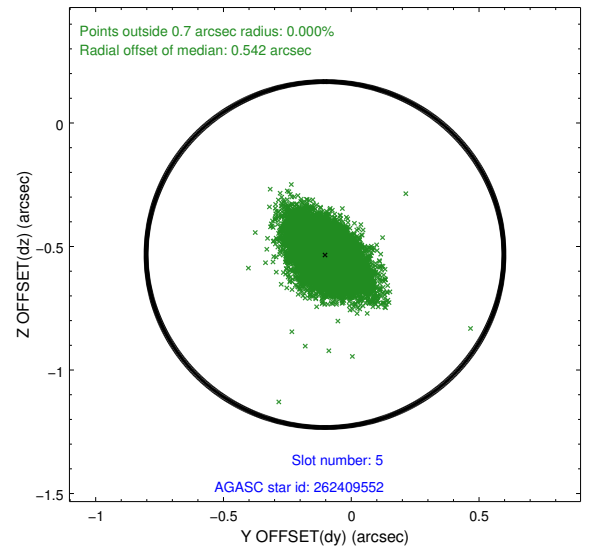
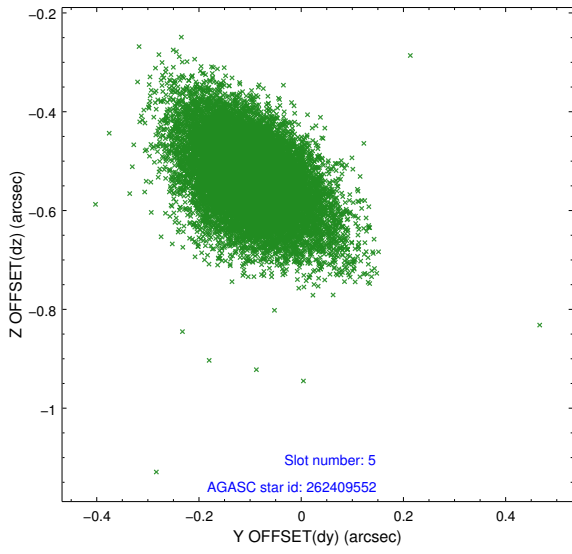
2.4.1 Slot 3



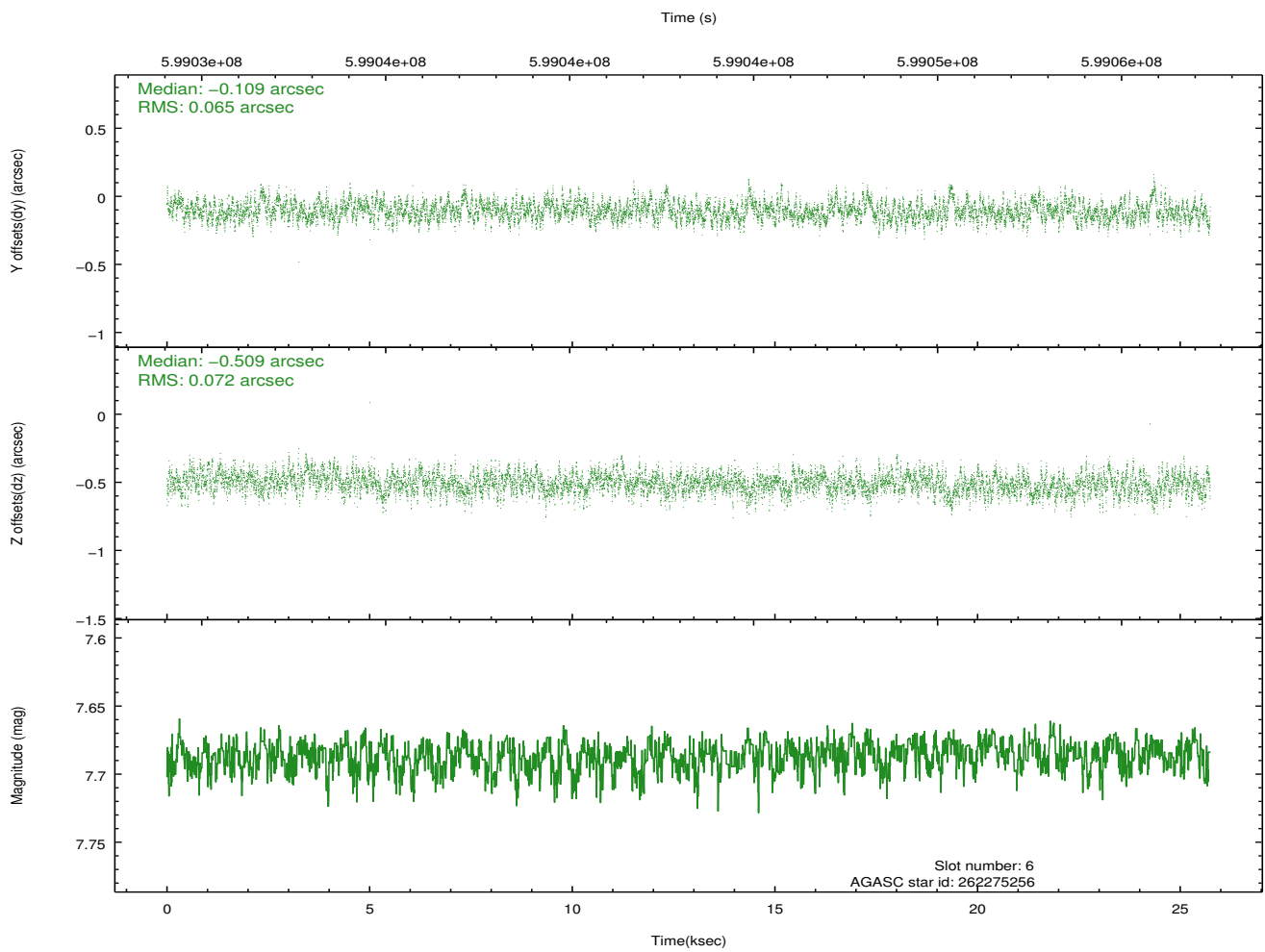
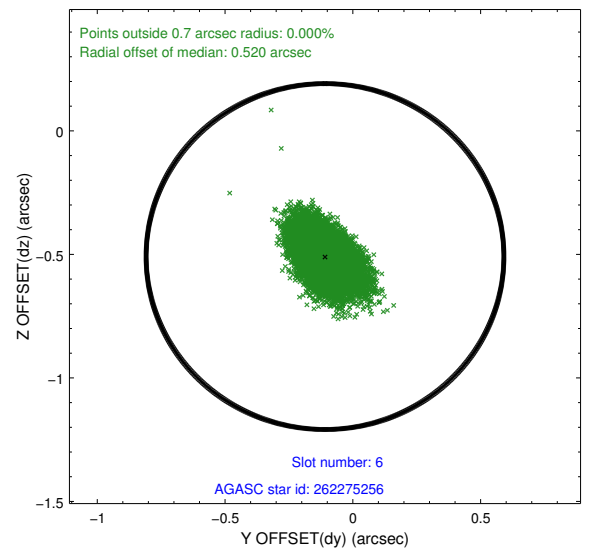
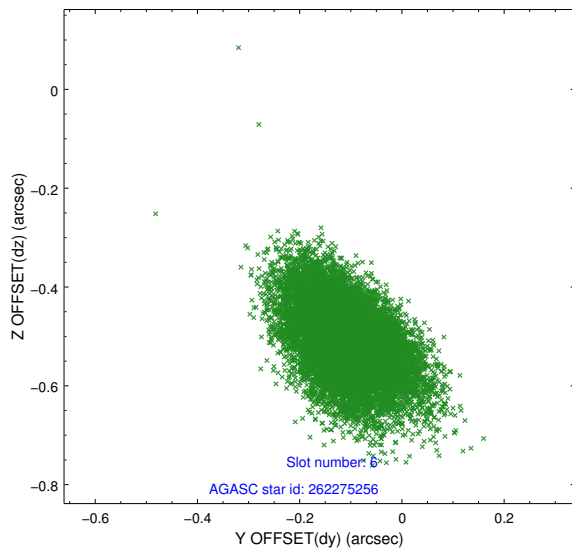
2.4.2 Slot 4



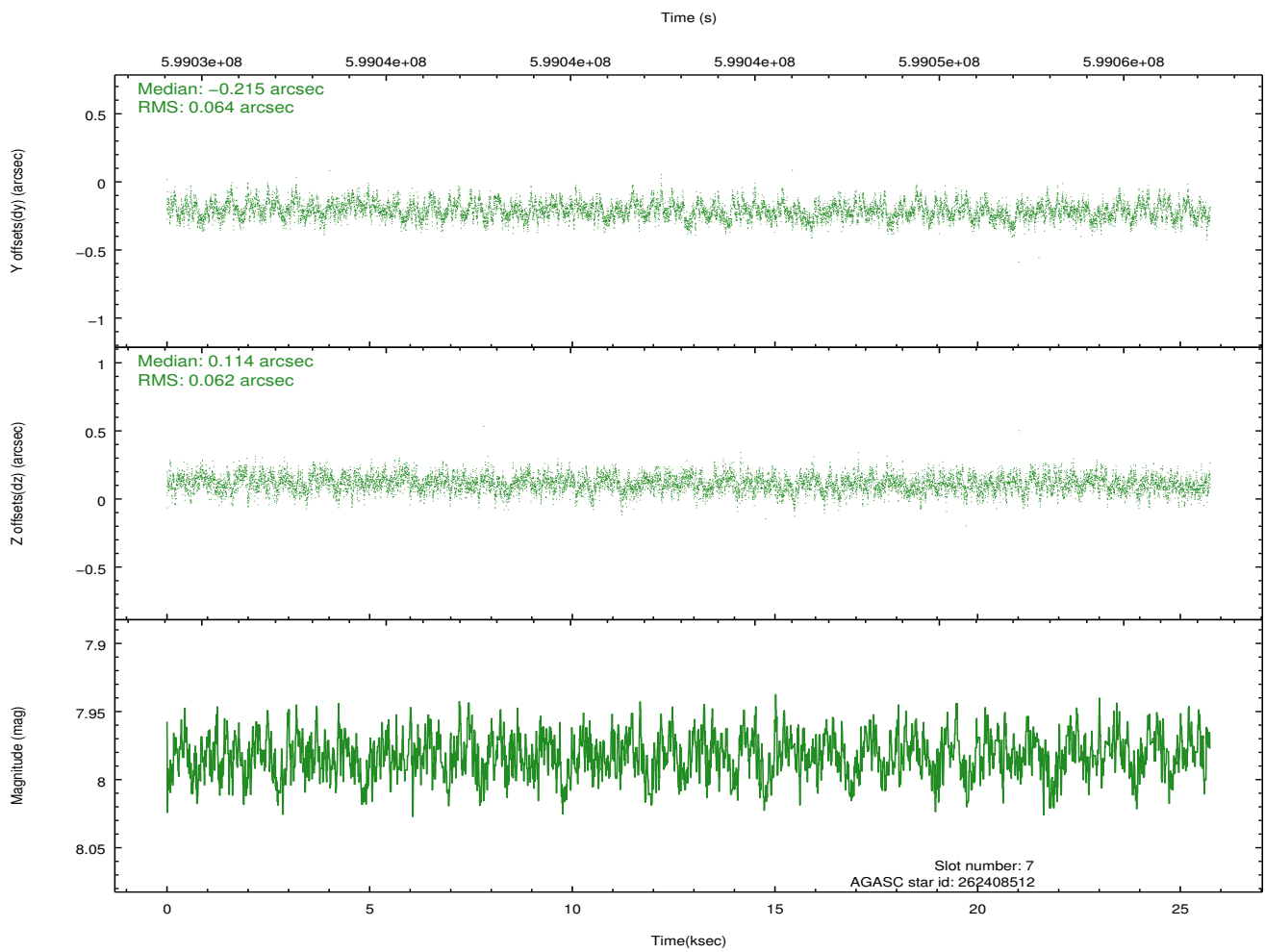
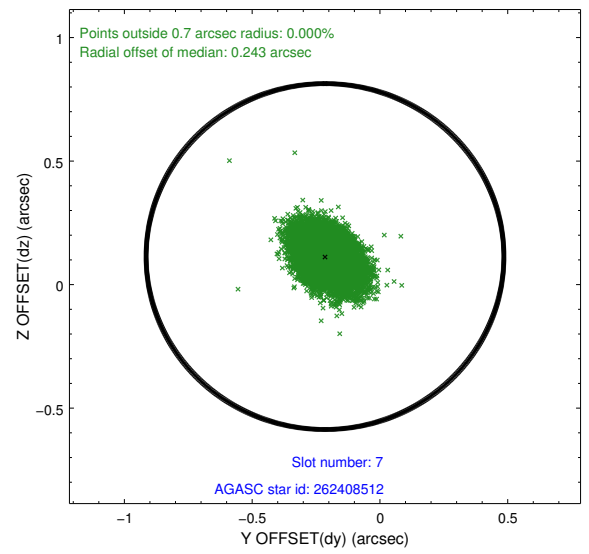
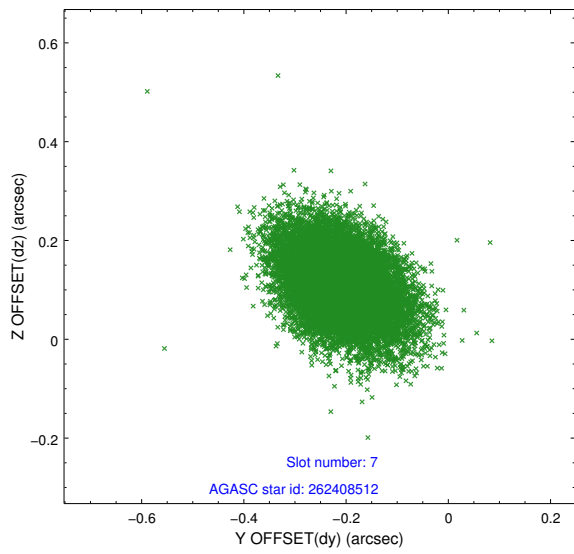
2.4.3 Slot 5



2.4.4 Slot 6

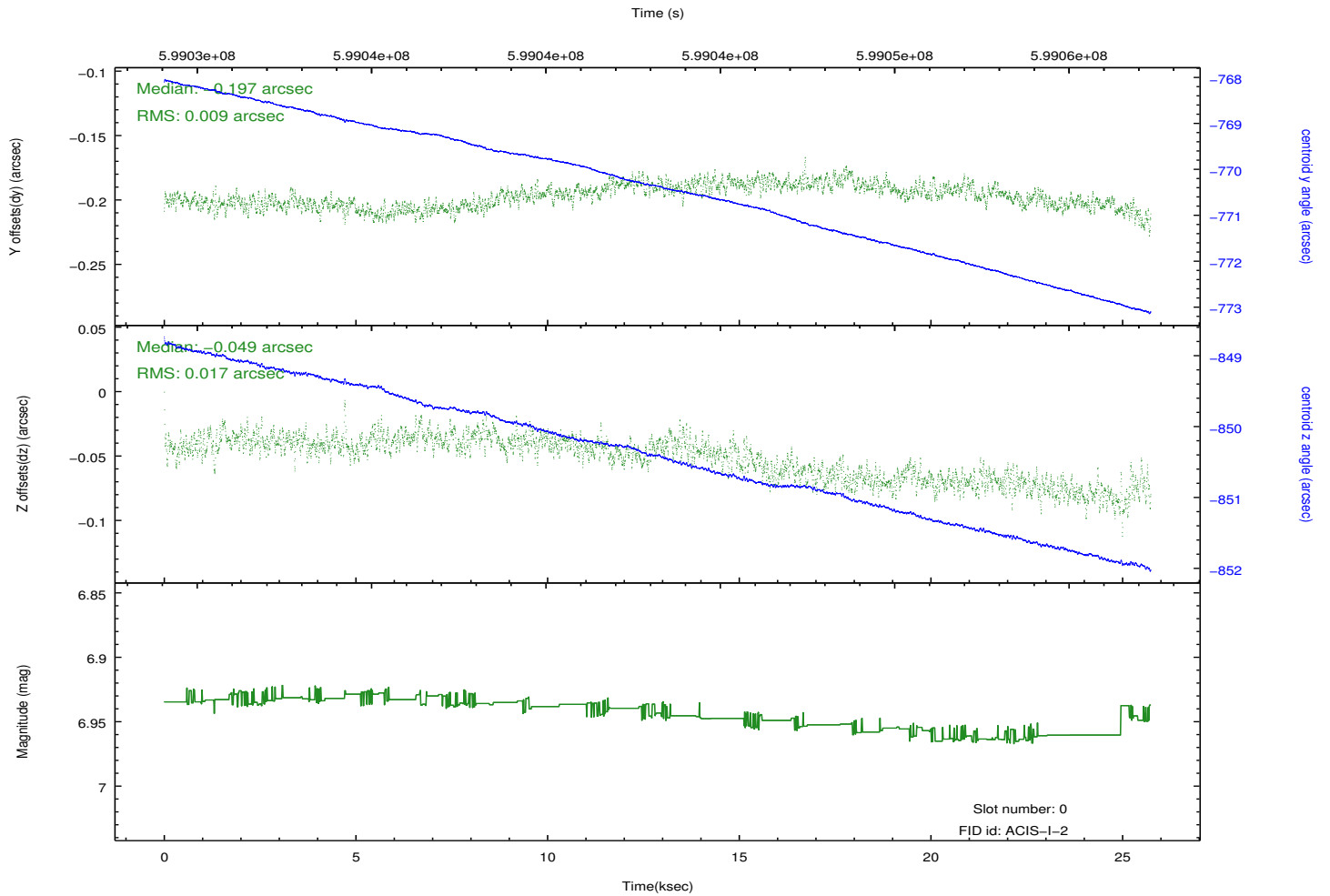
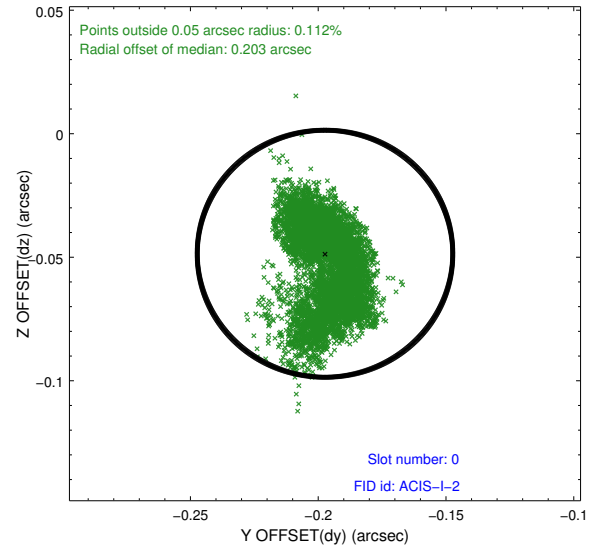
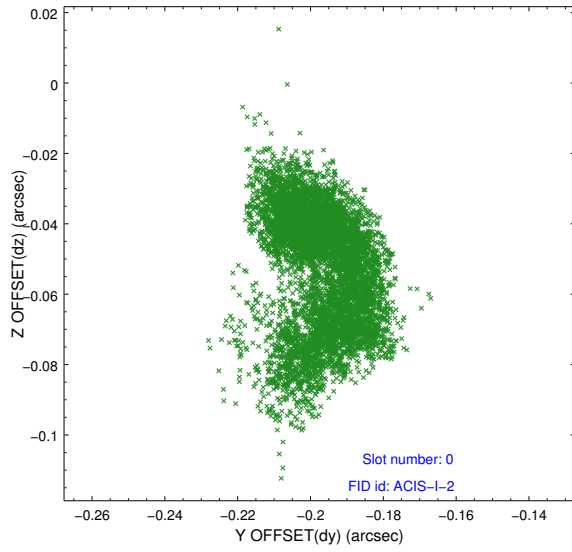


2.4.5 Slot 7

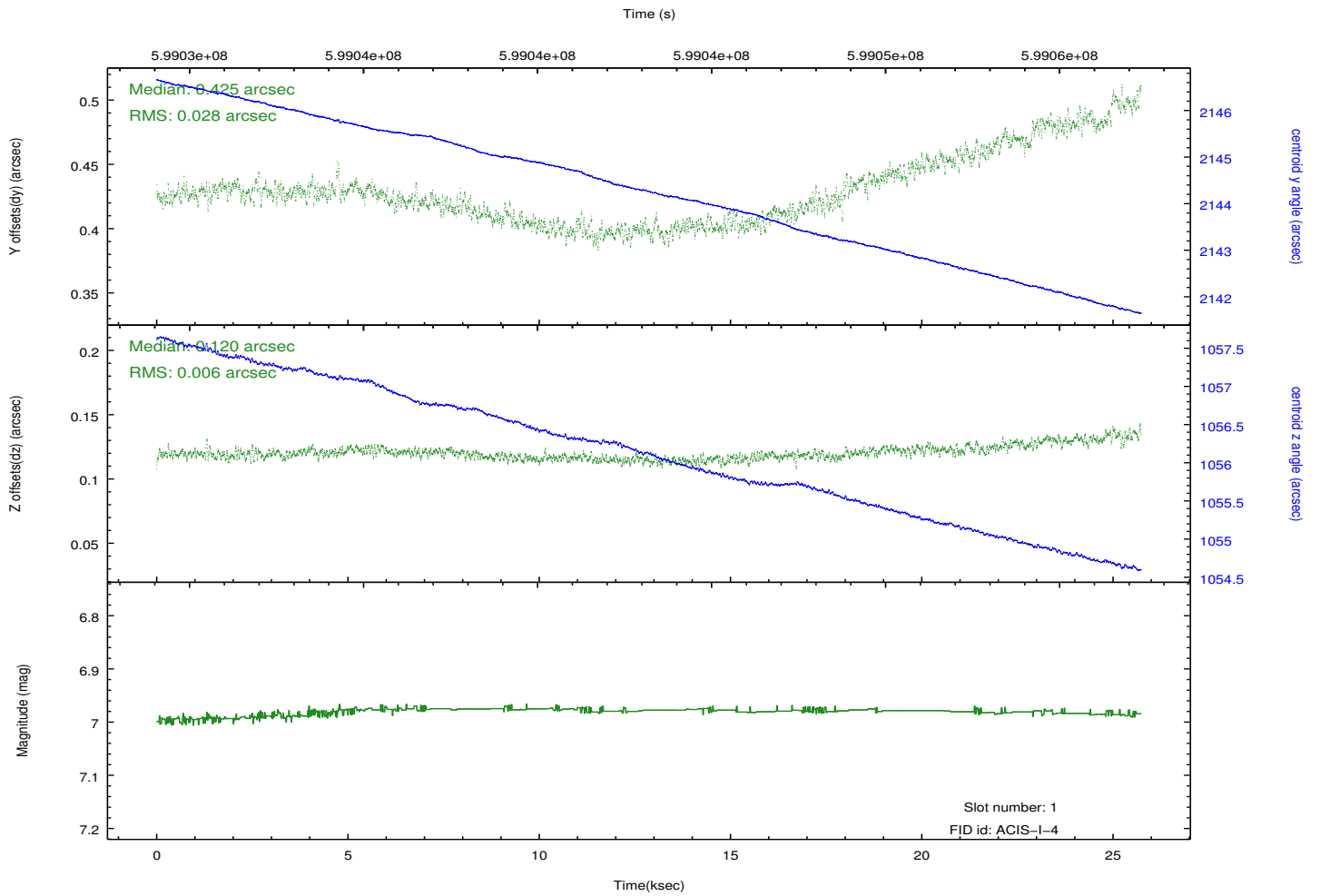
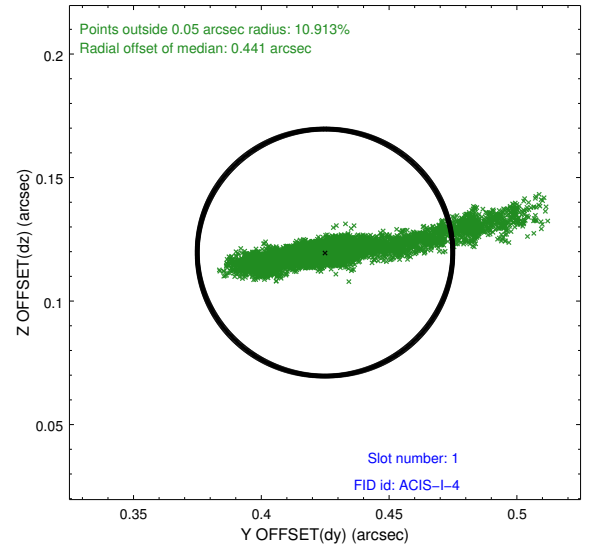
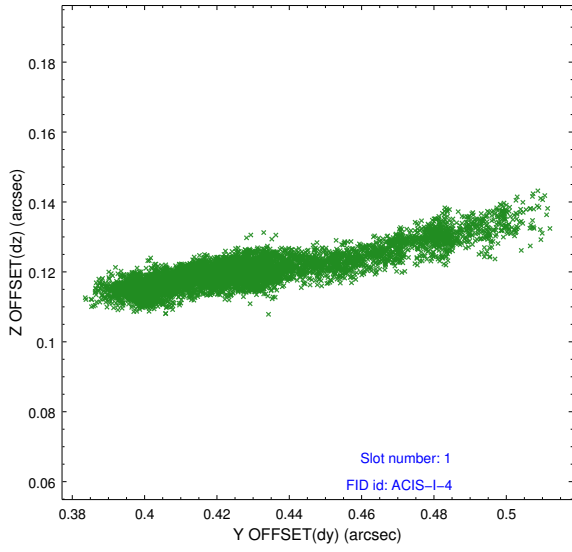


2.5 FID Slots

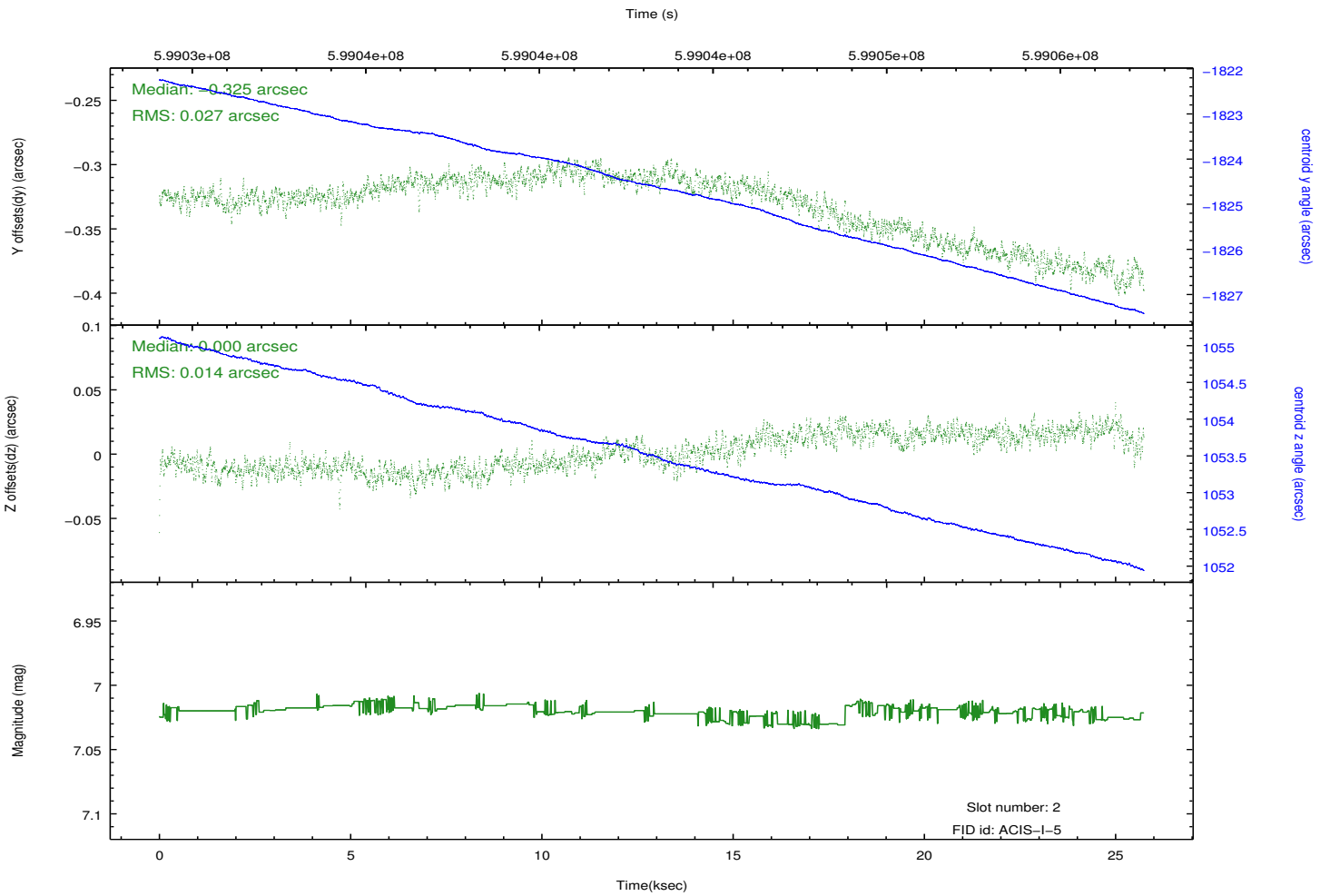
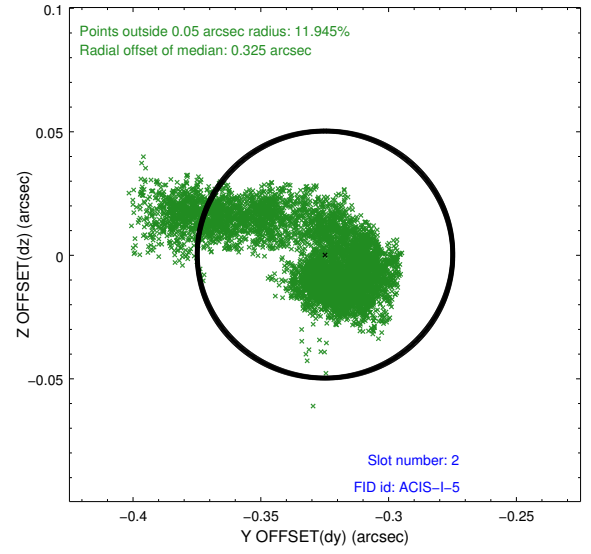
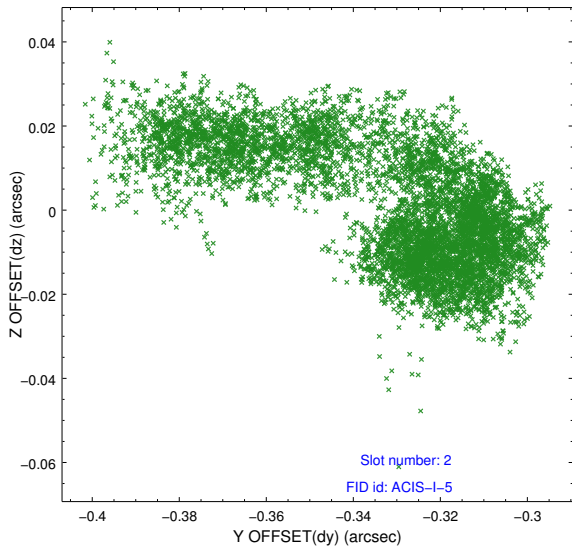
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2016.12.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.397412053585

A.2 Comments