

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11504 - L2 Version 2  
Chandra X-Ray Center

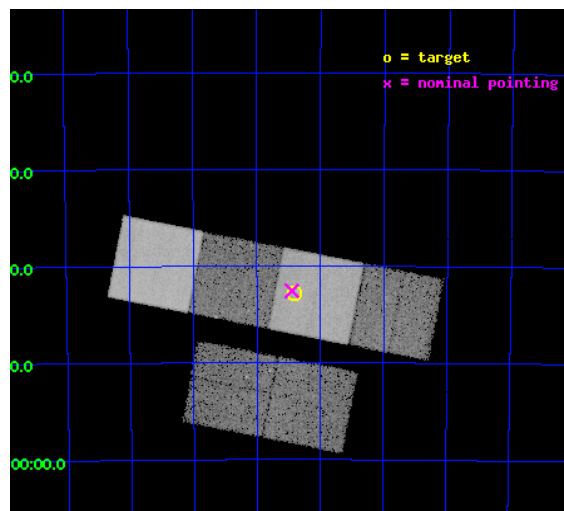
L2 Processing Date : Jun 29 2012

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# 1 Front

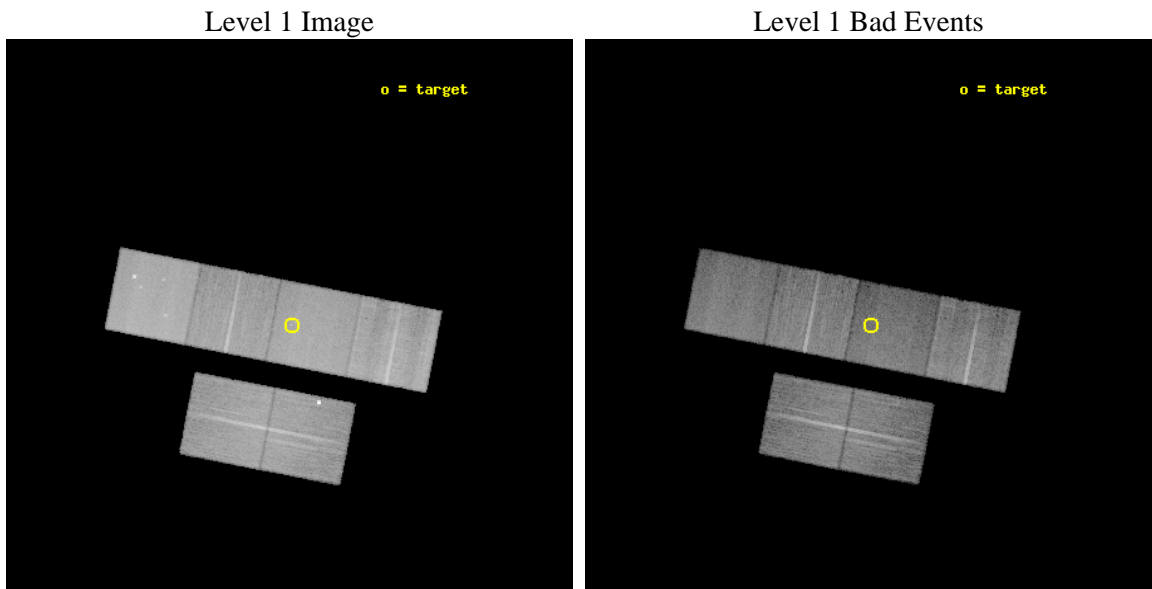
seq_num	702090	Sequence number
obs_id	11504	Observation id
title	The nature of active nuclei in radio galaxies: observations of the 2Jy sample	Proposal title
observer	Dr Martin Hardcastle	Principal investigator
object	PKS 1934-63	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	294.854167	Observer's specified target RA [deg]
dec_targ	-63.712667	Observer's specified target Dec [deg]
ra_nom	294.8622392567	Nominal RA [deg]
dec_nom	-63.709368074578	Nominal Dec [deg]
roll_nom	11.06116472556	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20047.128425539	Sum of GTIs [s]
livetime	19793.279614483	Livetime [s]
ontime2	20043.928425193	Sum of GTIs [s]
ontime3	20043.764255226	Sum of GTIs [s]
ontime5	20047.087385535	Sum of GTIs [s]
ontime6	20040.564254701	Sum of GTIs [s]
ontime7	20047.128425539	Sum of GTIs [s]
ontime8	20046.964265525	Sum of GTIs [s]
l2events	243453	Number of level 2 events



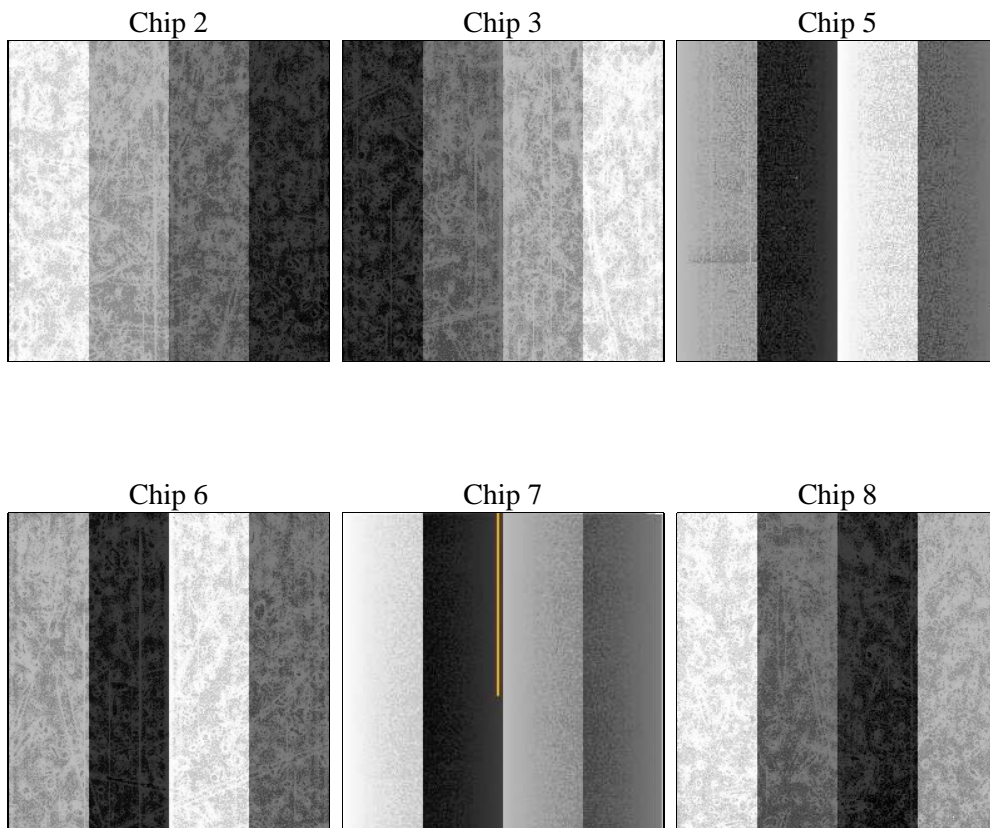
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	20047.128425539	Sum of GTIs [s]
caldbver	4.5.0	&#160	ontime2	20043.928425193	Sum of GTIs [s]
date	2012-06-30T00:34:38	Date and time of file creation	ontime3	20043.764255226	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	20047.087385535	Sum of GTIs [s]
			ontime6	20040.564254701	Sum of GTIs [s]
			ontime7	20047.128425539	Sum of GTIs [s]
			ontime8	20046.964265525	Sum of GTIs [s]
			l1events	1067841	Number of level 1 events

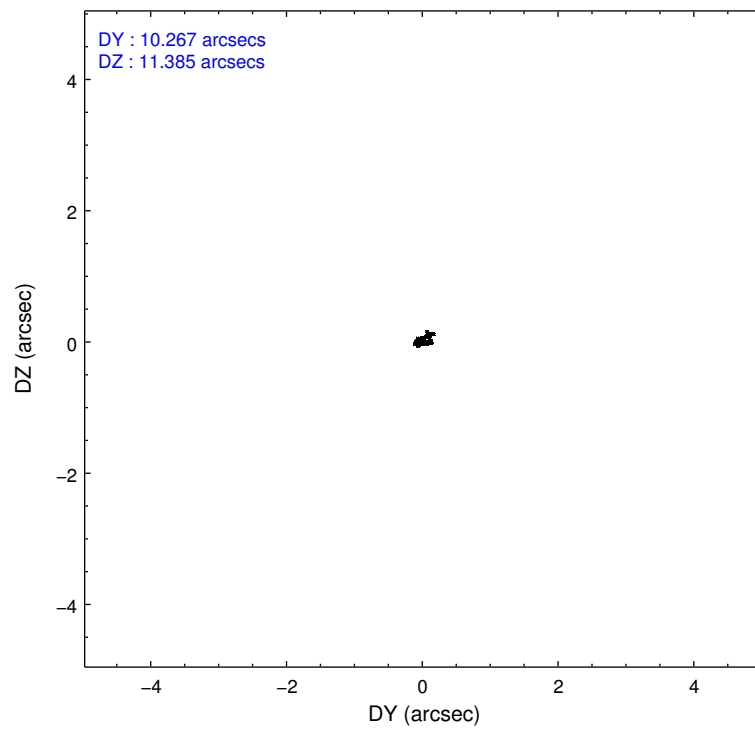
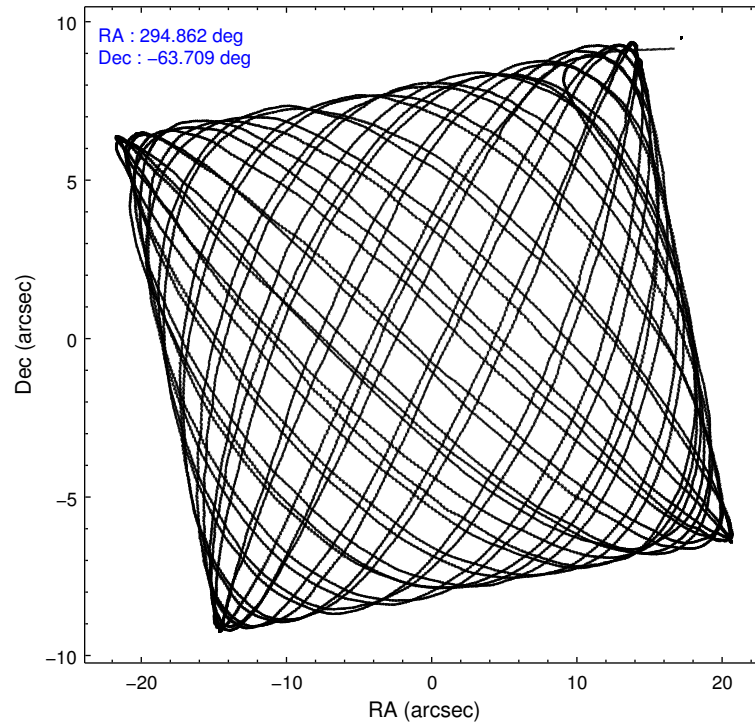
### 2.1.4 Events

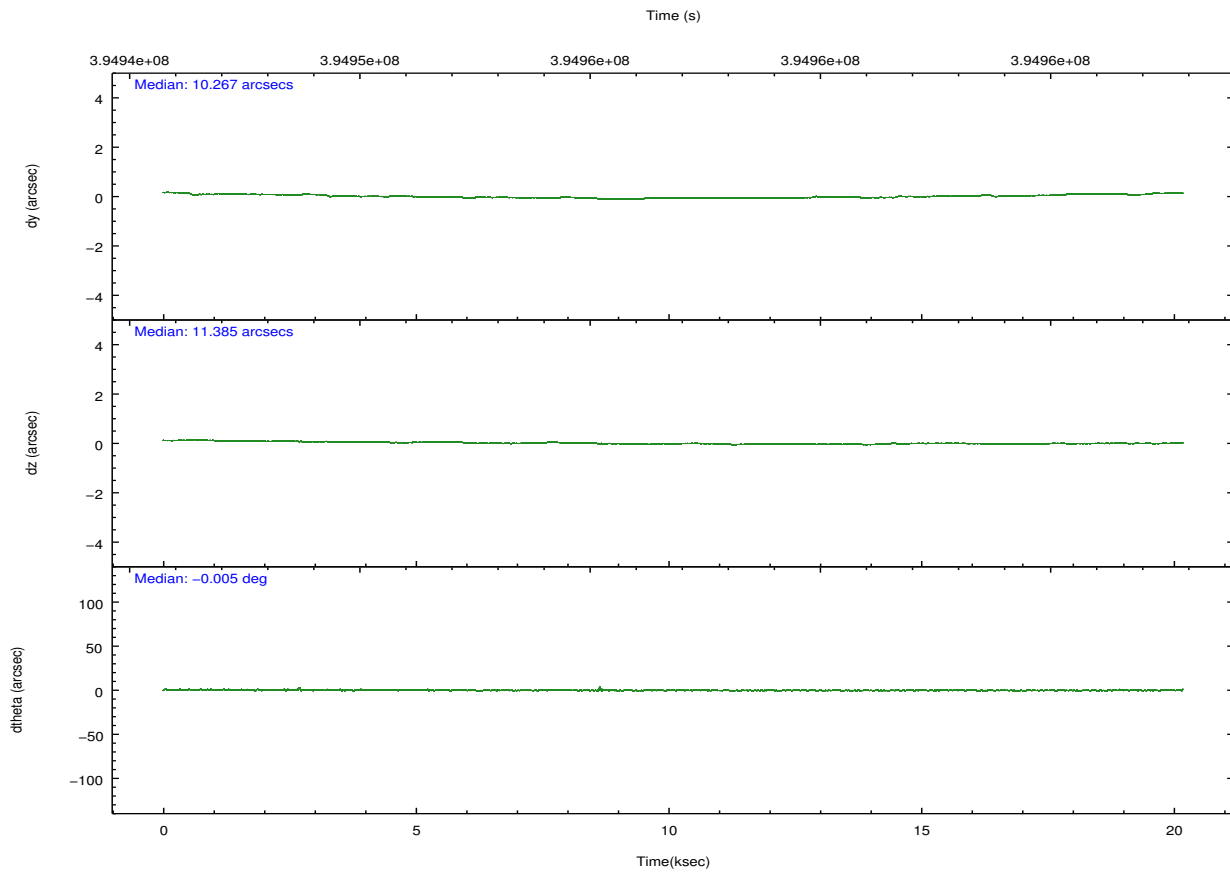
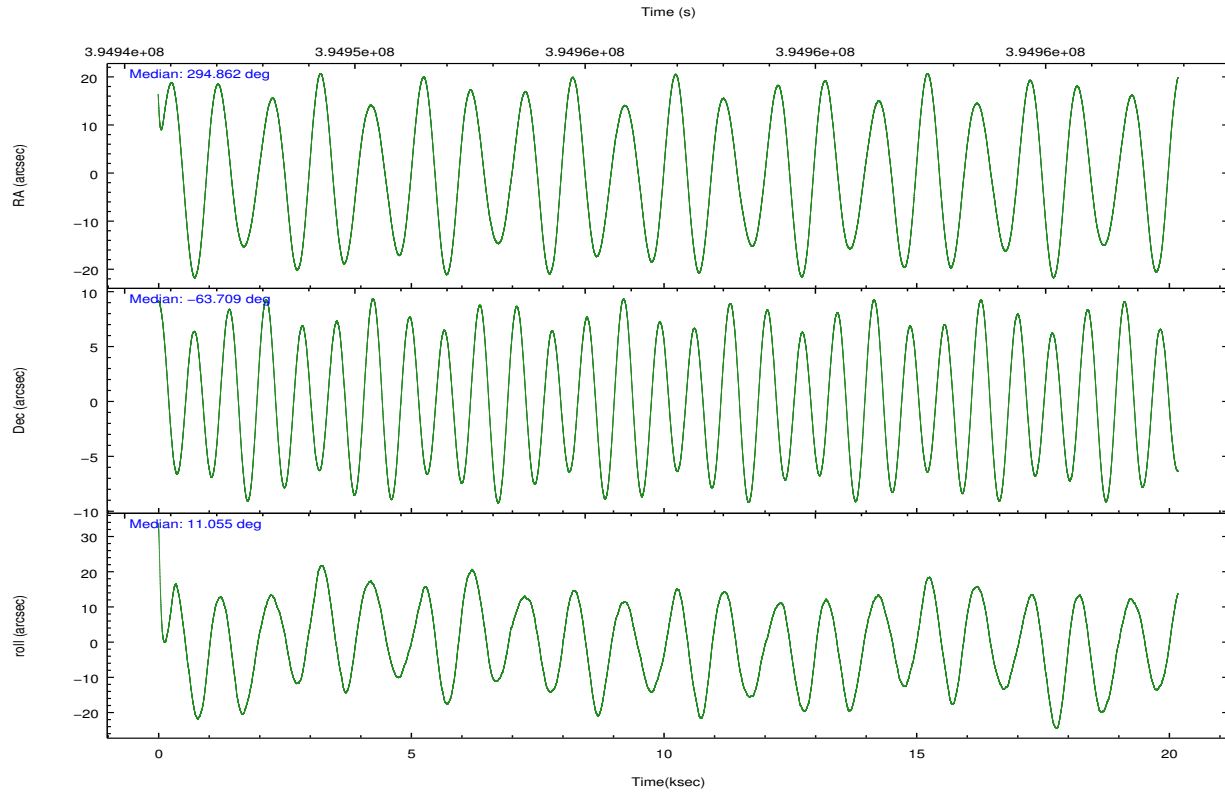
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	158959	151993	226687	154165	182745	193292	grade 0 events	5737	11198	9807	5937	7775	13310
rejected events	142986	131021	115368	137224	99778	145090		3%	7%	4%	3%	4%	6%
rejected %	89%	86%	50%	89%	54%	75%	grade 1 events	87	105	473	95	221	166
								0%	0%	0%	0%	0%	0%
							grade 2 events	3872	3365	34207	3895	16996	11588
								2%	2%	15%	2%	9%	5%
							grade 3 events	1765	1658	3981	1741	7306	5135
								1%	1%	1%	1%	3%	2%
							grade 4 events	1685	1663	3899	1735	7233	4753
								1%	1%	1%	1%	3%	2%
							grade 5 events	5606	6697	16834	6724	19373	9835
								3%	4%	7%	4%	10%	5%
							grade 6 events	2918	3094	59462	3636	43690	13431
								1%	2%	26%	2%	23%	6%
							grade 7 events	137289	124213	98024	130402	80151	135074
								86%	81%	43%	84%	43%	69%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	294.816185	294.8622392567028	CCD I2 on	O1	Y
[deg] Pointing Dec	-63.727616	-63.70936807457829	CCD I3 on	O2	Y
[deg] Pointing Roll	10.863226	11.06116472555964	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	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)	394946890.184000	394945805.31255	CCD S5 on	N	N
Observation start date	2010-07-08T03:27:04	2010-07-08T03:10:05	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	394966890.184000	394967705.97617	On-chip summing requested	N	N
Observation end date	2010-07-08T09:00:24	2010-07-08T09:15:05	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



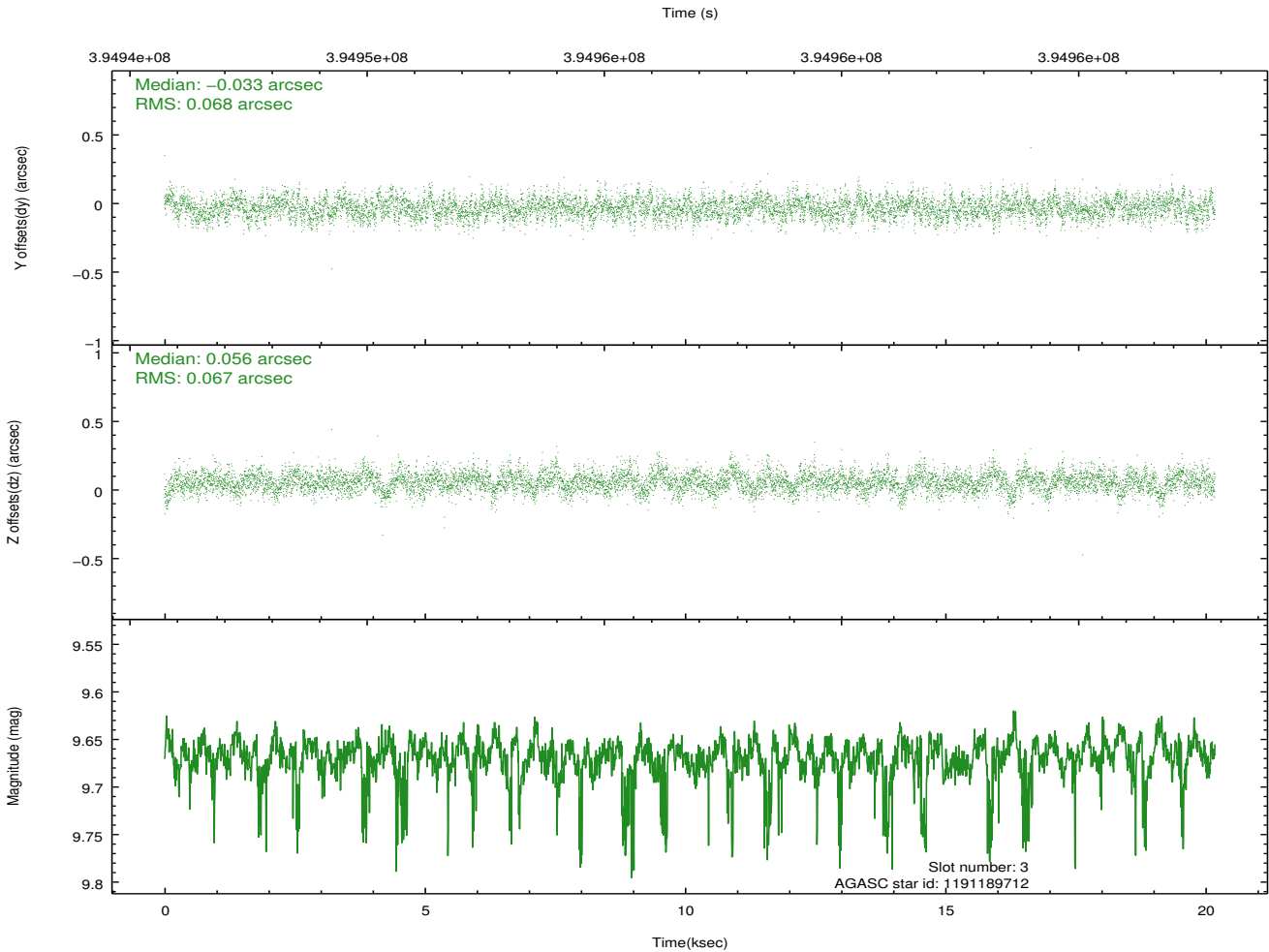
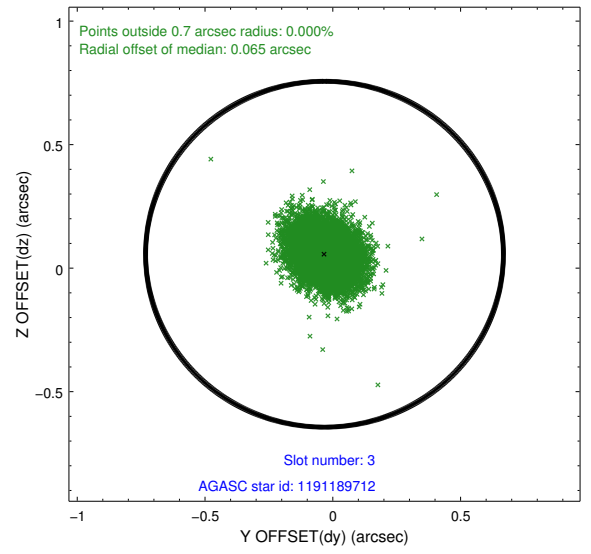
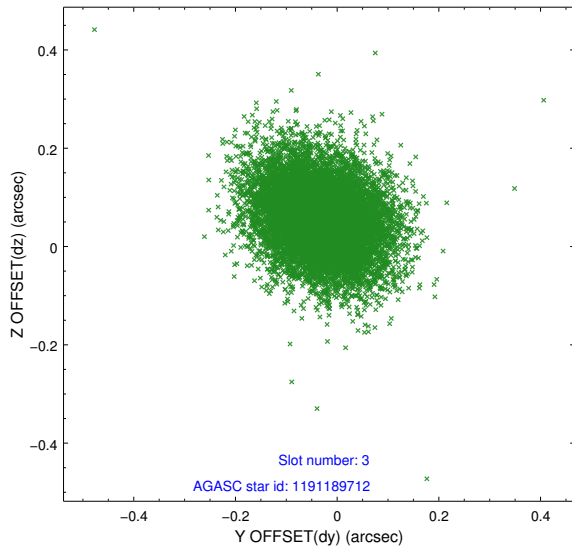


### Slot Statistics

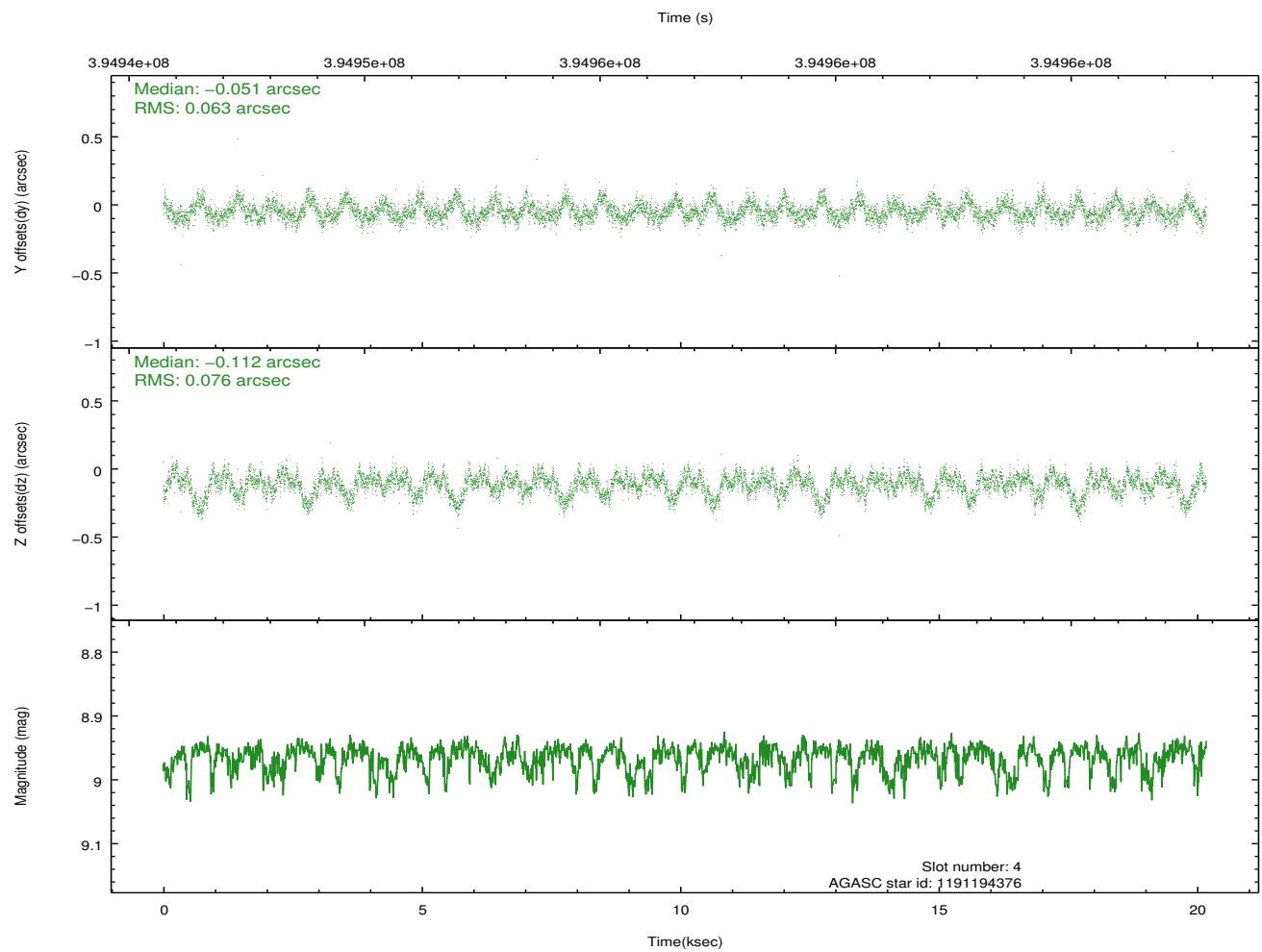
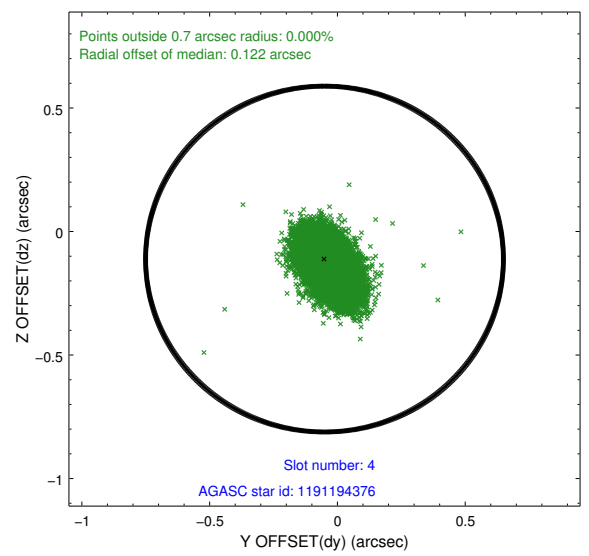
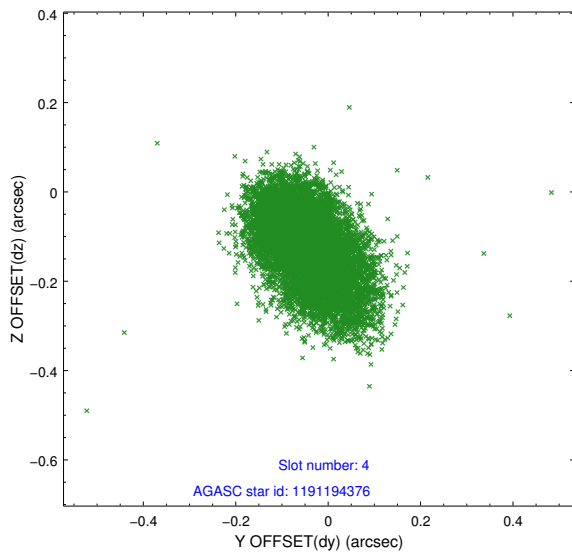
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.07	4922	0.035	-0.087	0.007	0.012	0.000000	0.000000	932.94	-1728.36
1	FID	ACIS-S-4	7.08	4922	0.136	0.048	0.007	0.012	0.000000	0.000000	2150.55	175.74
2	FID	ACIS-S-5	7.11	4923	-0.198	0.052	0.006	0.012	0.000000	0.000000	-1815.92	169.56
3	GUIDE	1191189712	9.67	9779	-0.033	0.056	0.100	0.165	293.420266	-63.349100	-1961.42	1738.85
4	GUIDE	1191194376	8.96	9829	-0.051	-0.112	0.102	0.177	295.581899	-63.596840	1291.03	224.58
5	GUIDE	1191711616	9.27	9832	0.219	0.192	0.098	0.163	293.668121	-63.987465	-1958.85	-592.86
6	GUIDE	1191192216	8.83	9838	-0.163	-0.228	0.157	0.217	294.718629	-63.062495	294.54	2381.40
7	GUIDE	1191844352	9.76	9793	0.034	0.097	0.177	0.270	295.721073	-64.080097	1157.72	-1523.73

## 2.4 Star Slots

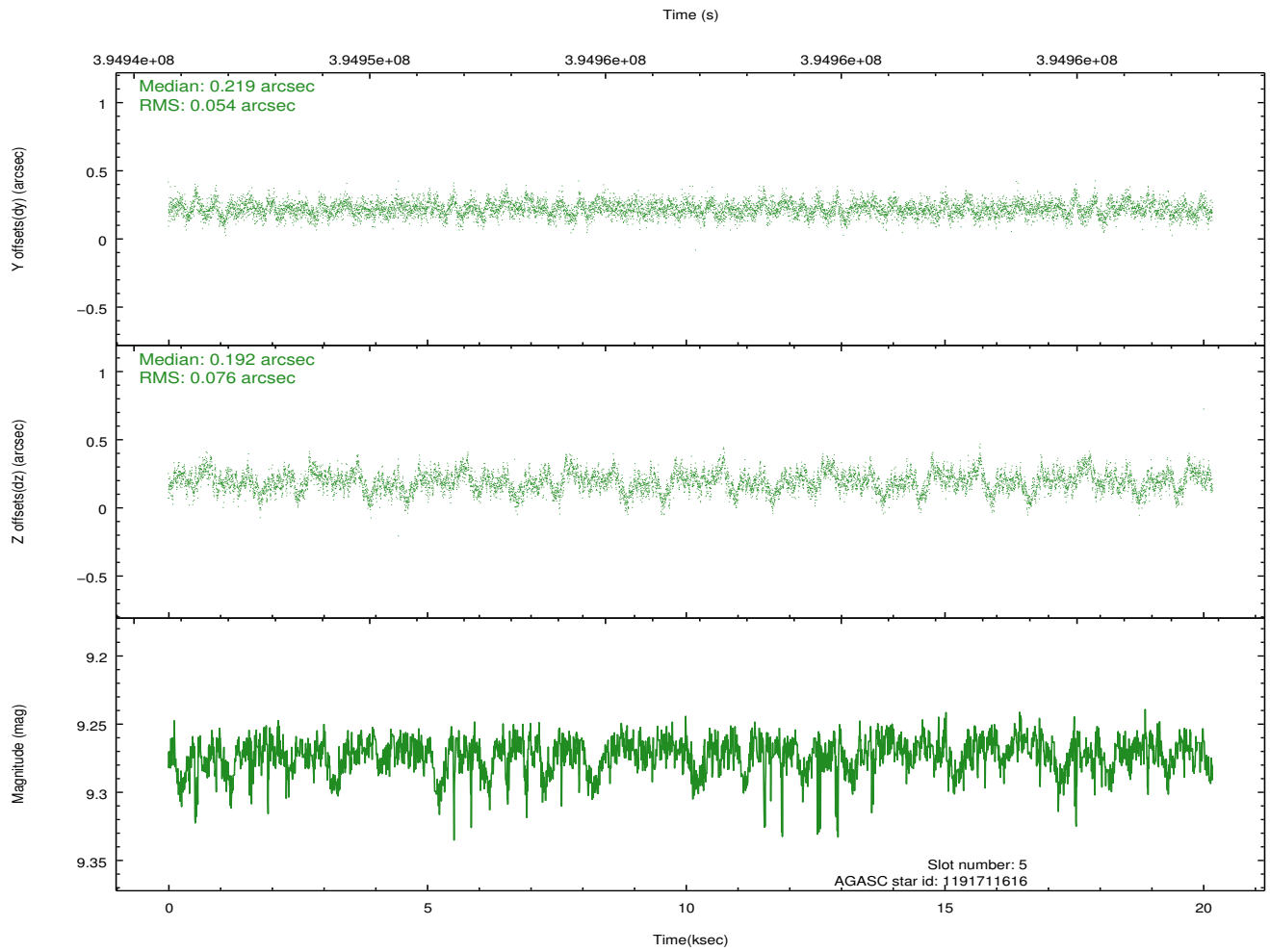
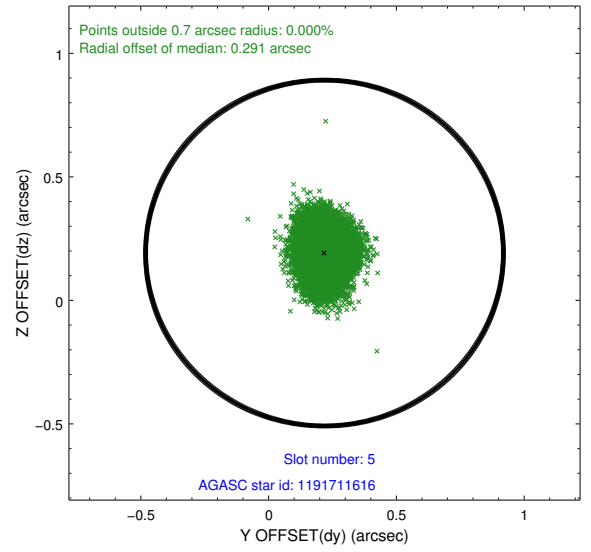
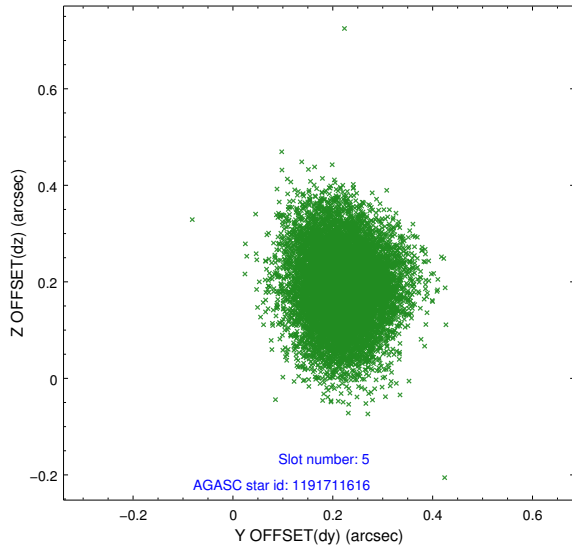
### 2.4.1 Slot 3



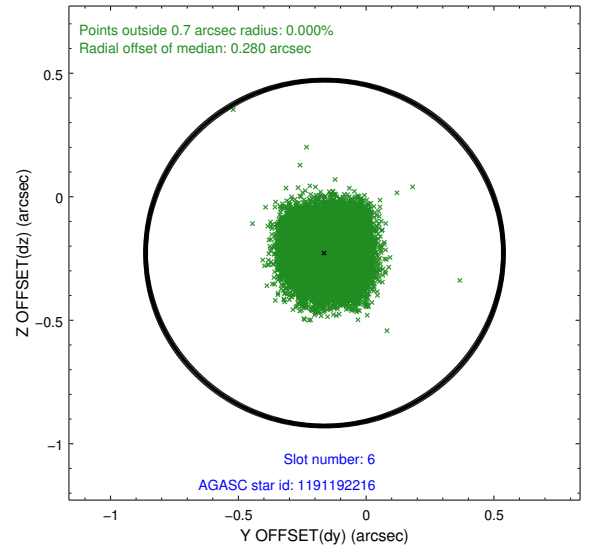
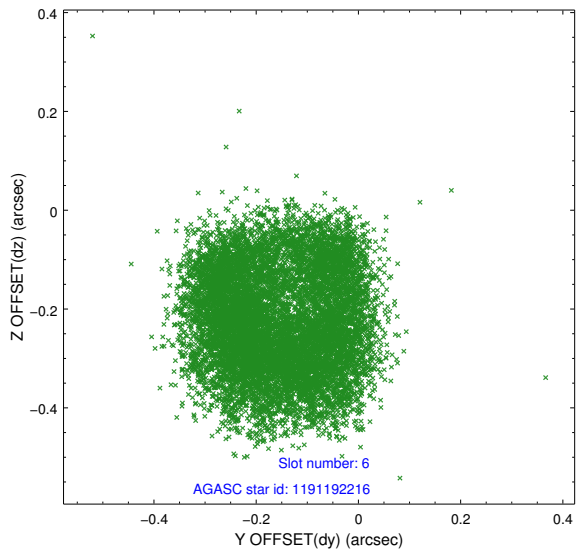
## 2.4.2 Slot 4



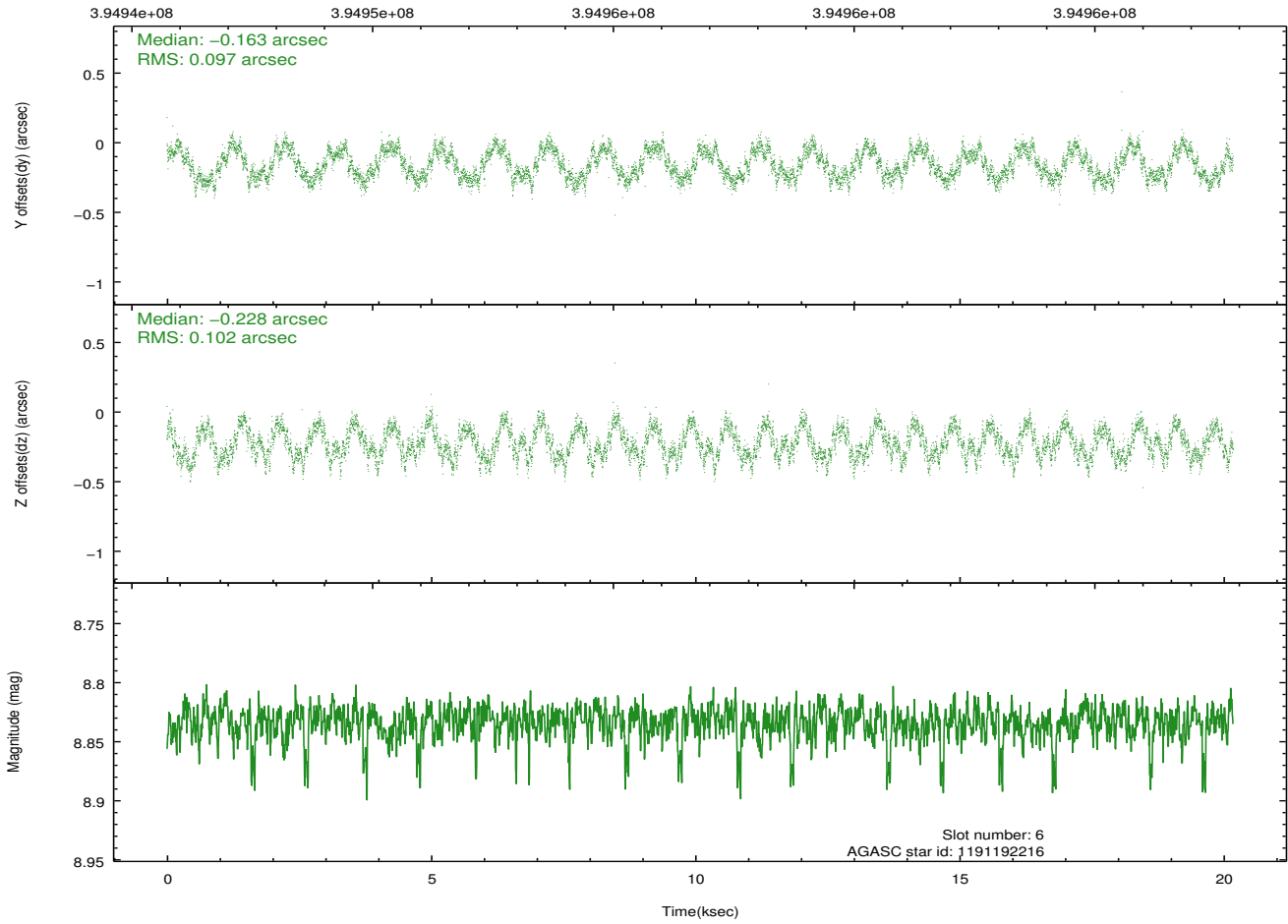
### 2.4.3 Slot 5



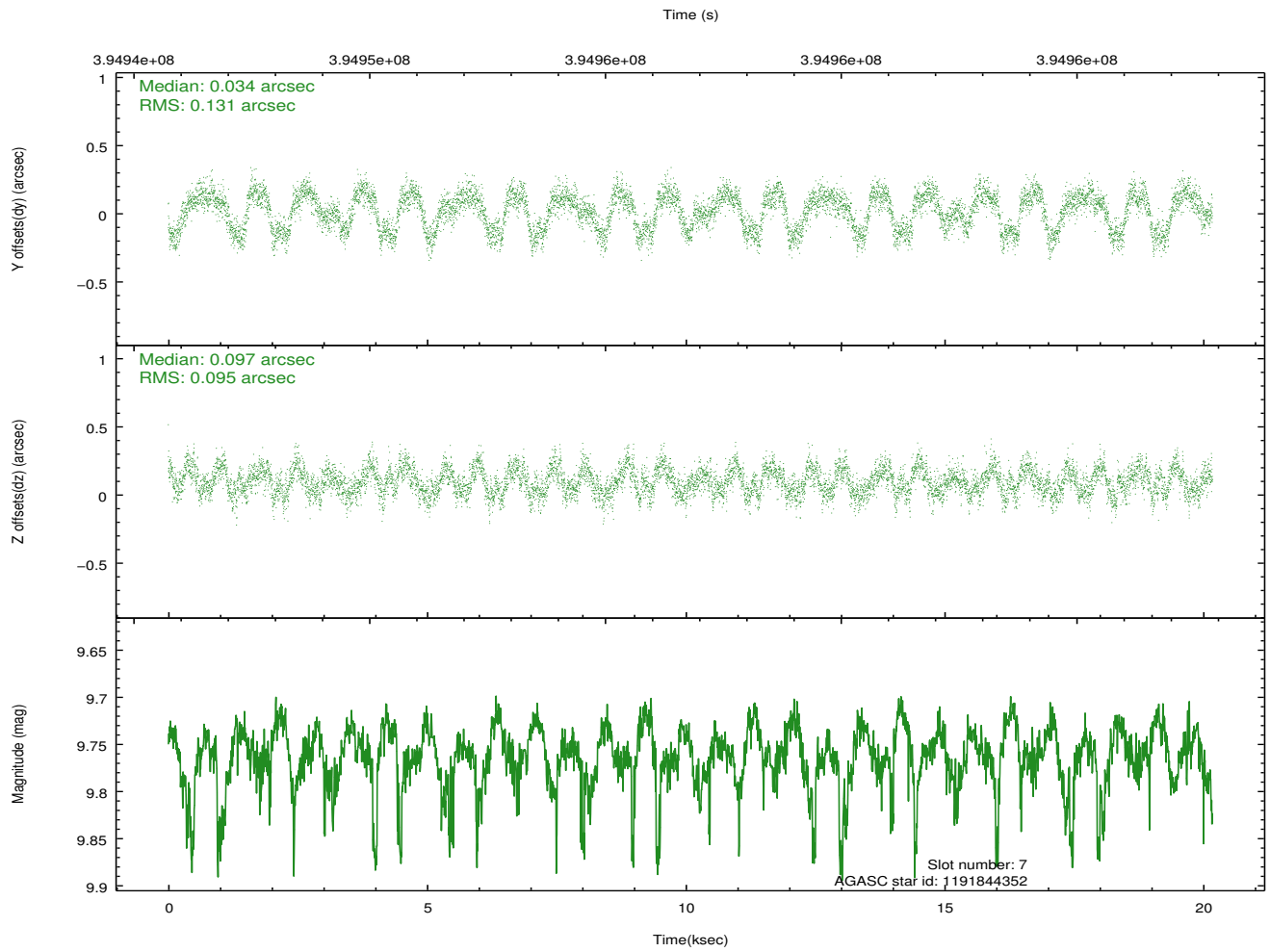
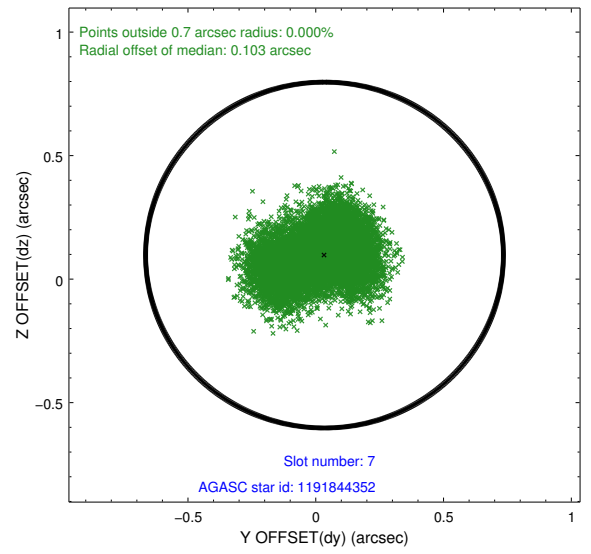
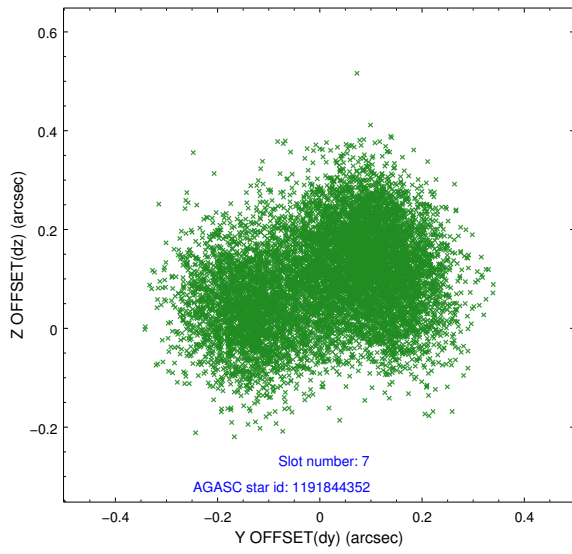
## 2.4.4 Slot 6



Time (s)

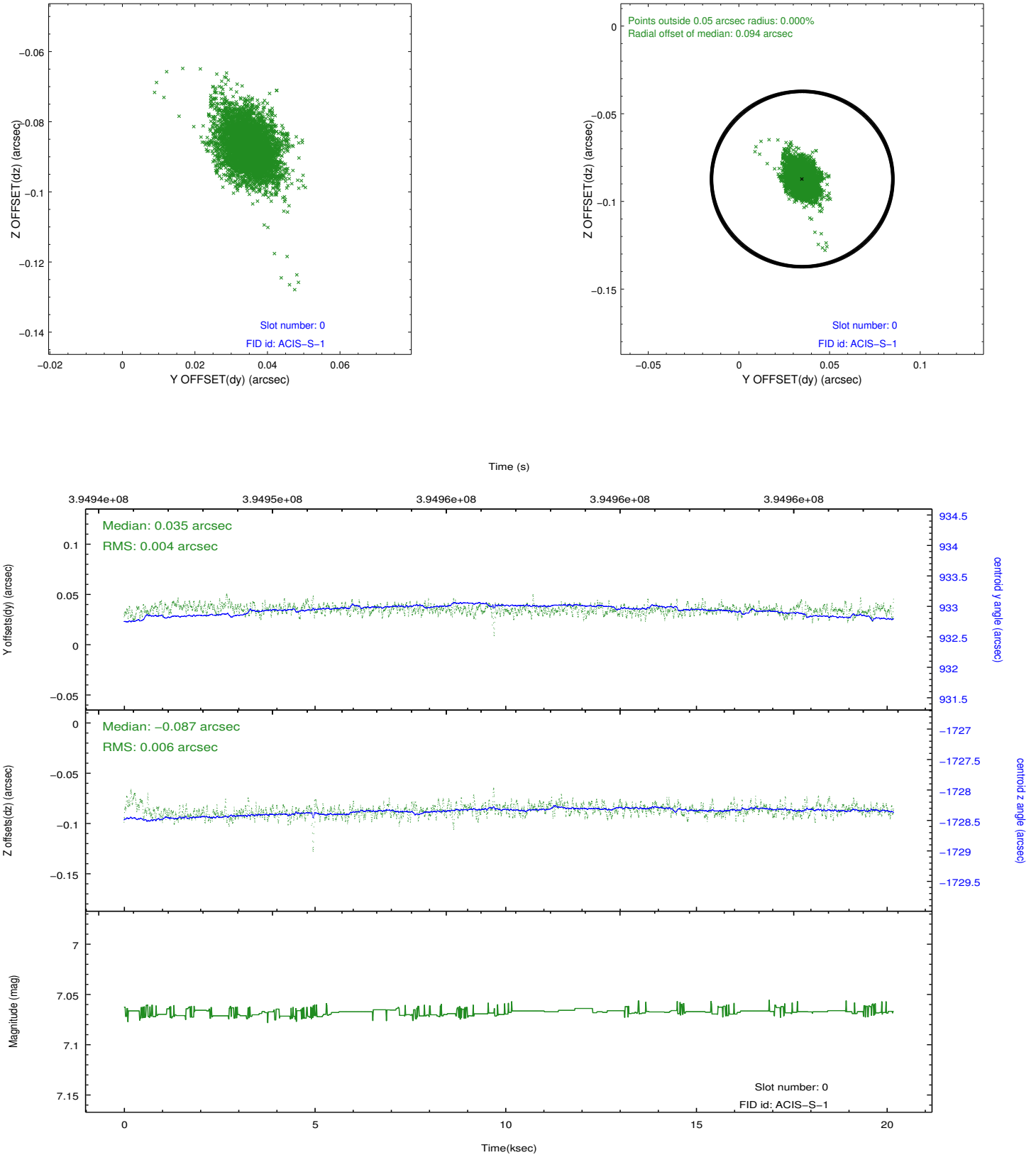


### 2.4.5 Slot 7

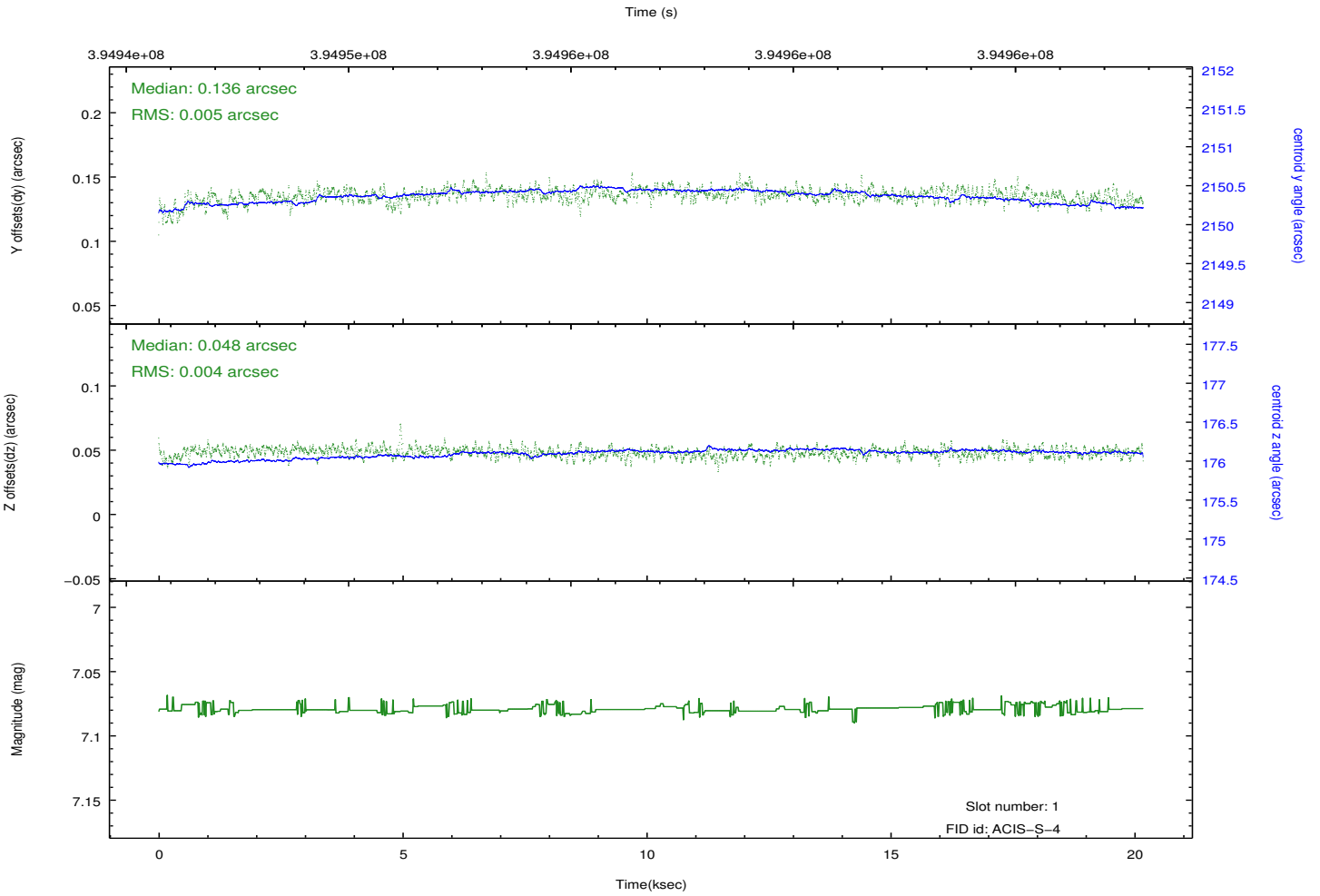
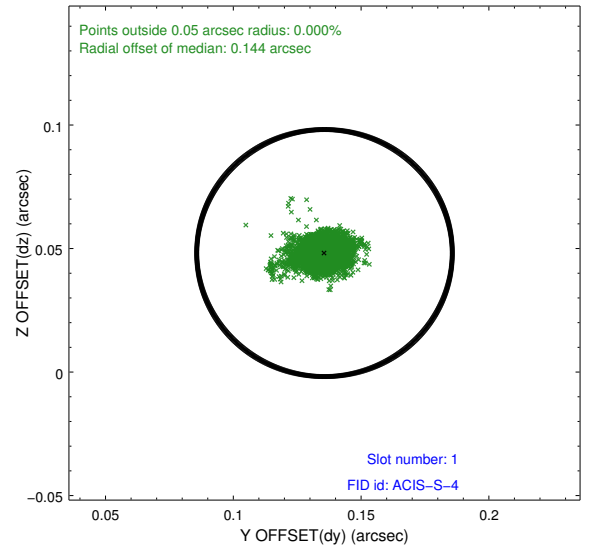
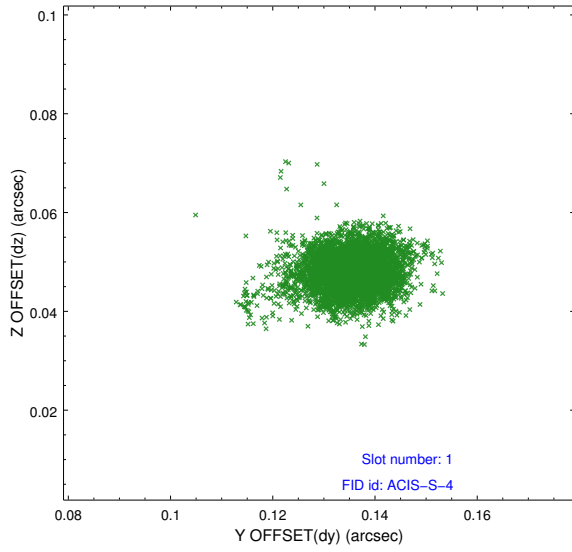


## 2.5 FID Slots

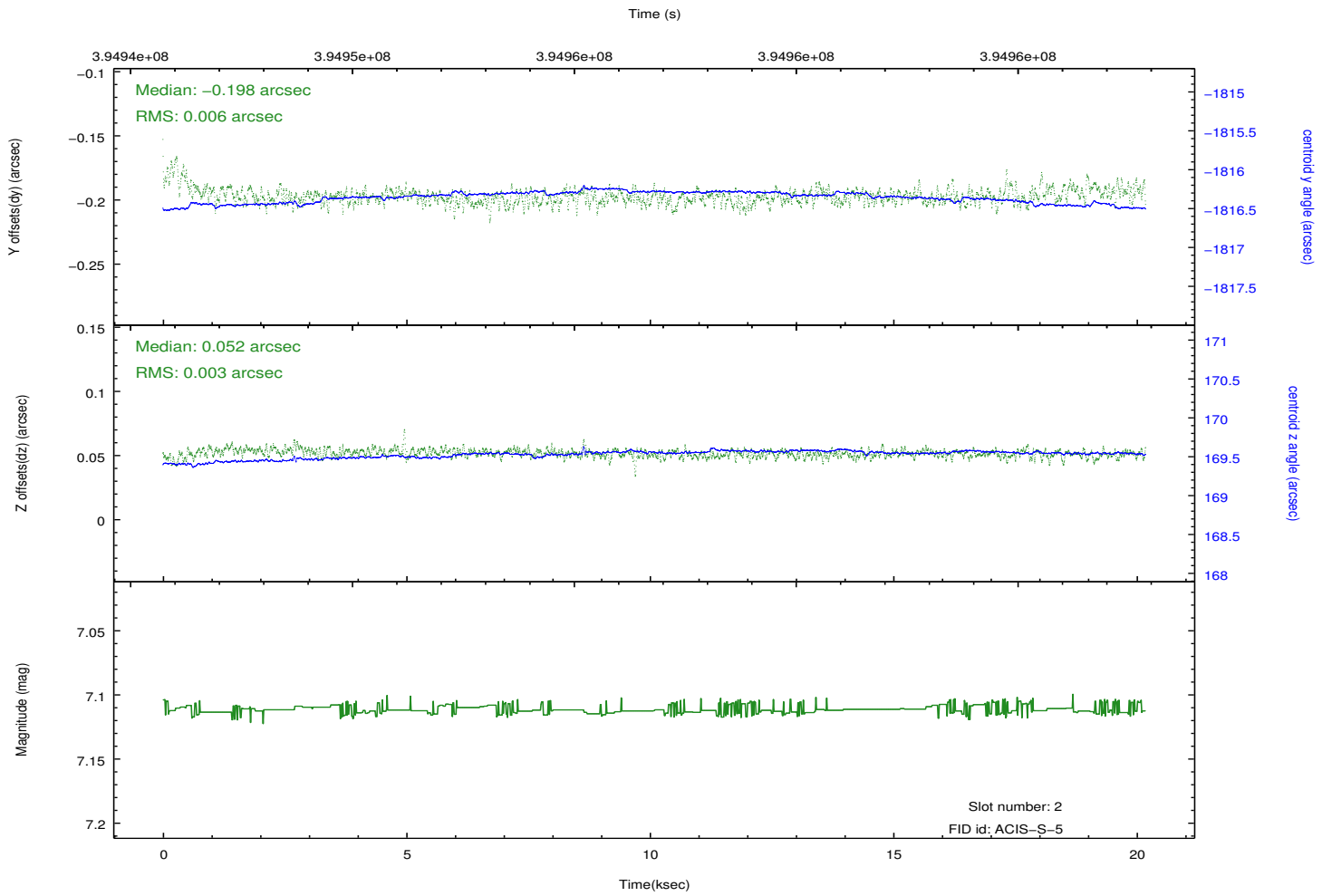
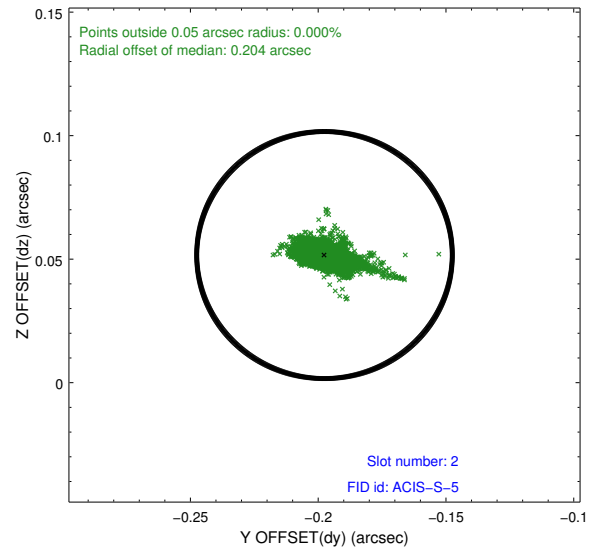
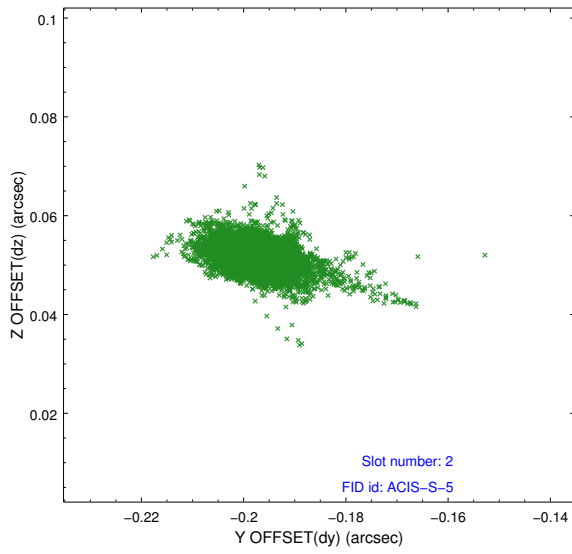
### 2.5.1 Slot 0



## 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)	2012.07.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.047128433526

## A.2 Comments