

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10125 - L2 Version 2  
Chandra X-Ray Center

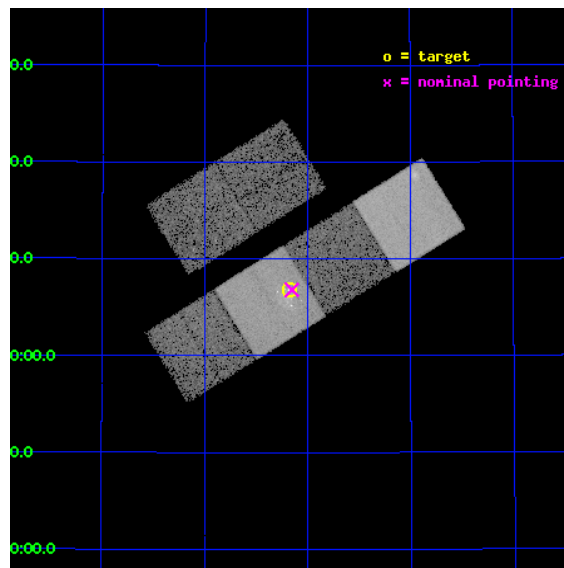
L2 Processing Date : Jun 1 2012

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# 1 Front

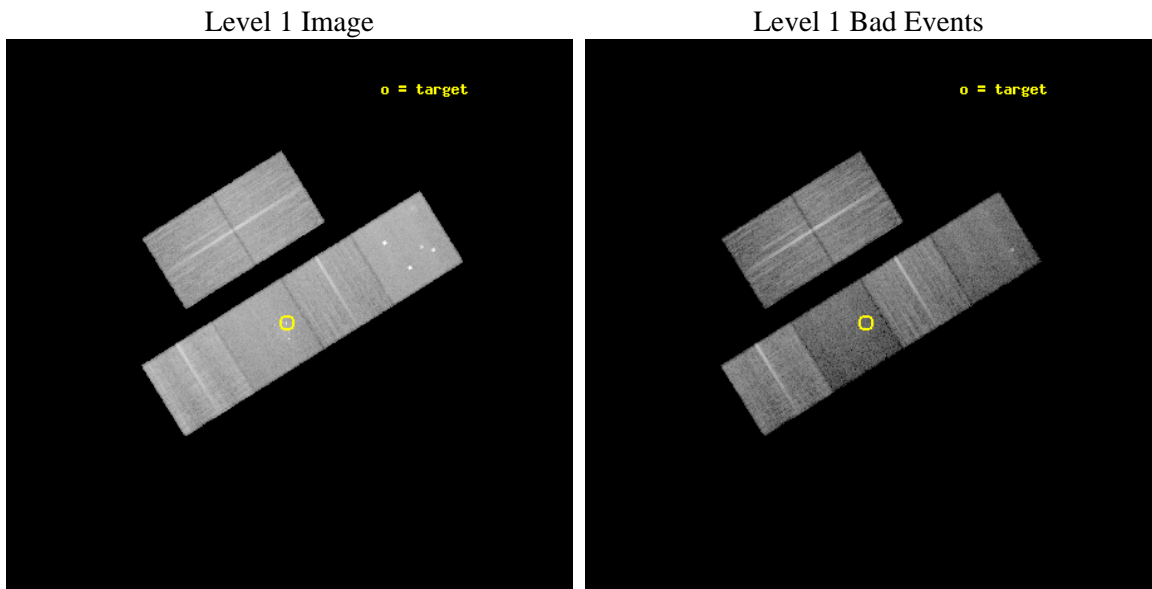
seq_num	501052	Sequence number
obs_id	10125	Observation id
title	The Luminous Supernova Remnant in NGC4449: Charting the Future for SN 1987A	Proposal title
observer	Dr. Knox Long	Principal investigator
object	NGC4449-SNR	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.045417	Observer's specified target RA [deg]
dec_targ	44.1135	Observer's specified target Dec [deg]
ra_nom	187.03862014187	Nominal RA [deg]
dec_nom	44.113483706246	Nominal Dec [deg]
roll_nom	148.16140133697	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15139.199943662	Sum of GTIs [s]
livetime	14947.498278243	Livetime [s]
ontime2	15139.199943662	Sum of GTIs [s]
ontime3	15139.199943662	Sum of GTIs [s]
ontime5	15139.199943662	Sum of GTIs [s]
ontime6	15135.958943367	Sum of GTIs [s]
ontime7	15139.199943662	Sum of GTIs [s]
ontime8	15139.199943662	Sum of GTIs [s]
l2events	178652	Number of level 2 events



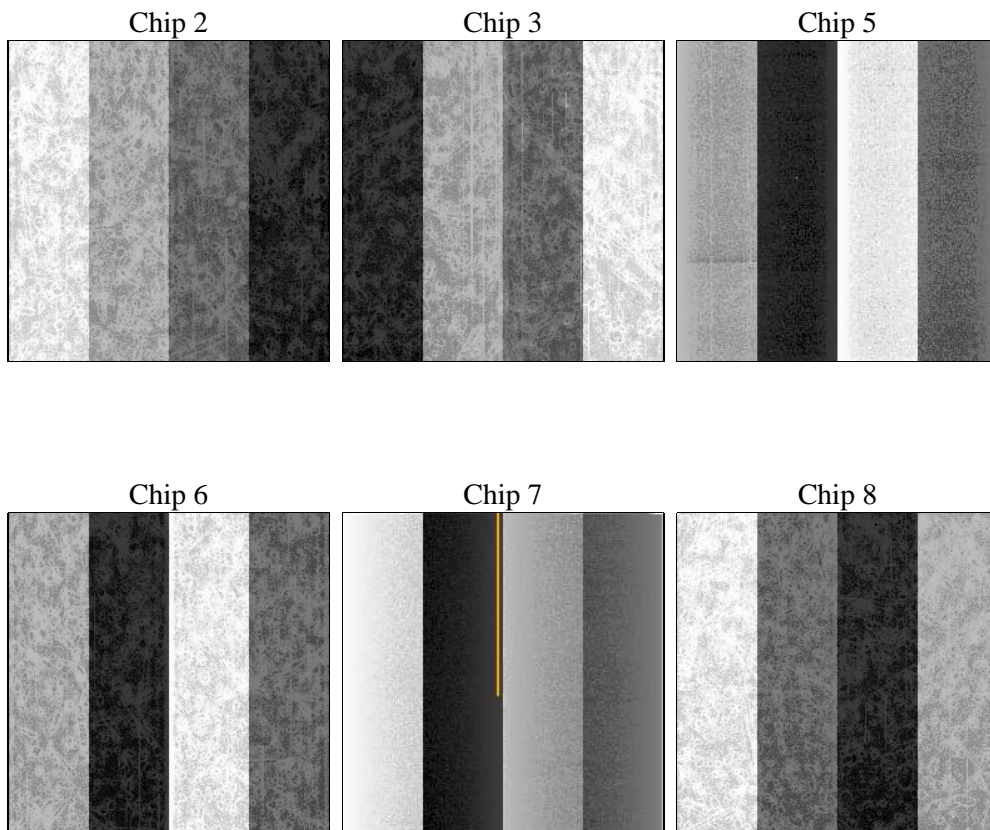
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	15139.199943662	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime2	15139.199943662	Sum of GTIs [s]
date	2012-06-01T23:47:10	Date and time of file creation	ontime3	15139.199943662	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	15139.199943662	Sum of GTIs [s]
			ontime6	15135.958943367	Sum of GTIs [s]
			ontime7	15139.199943662	Sum of GTIs [s]
			ontime8	15139.199943662	Sum of GTIs [s]
			l1events	837510	Number of level 1 events

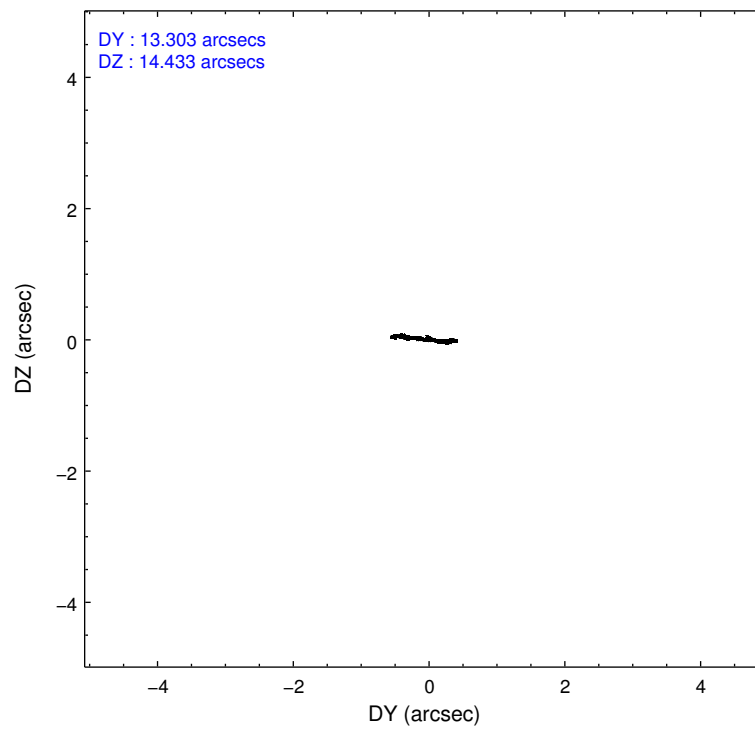
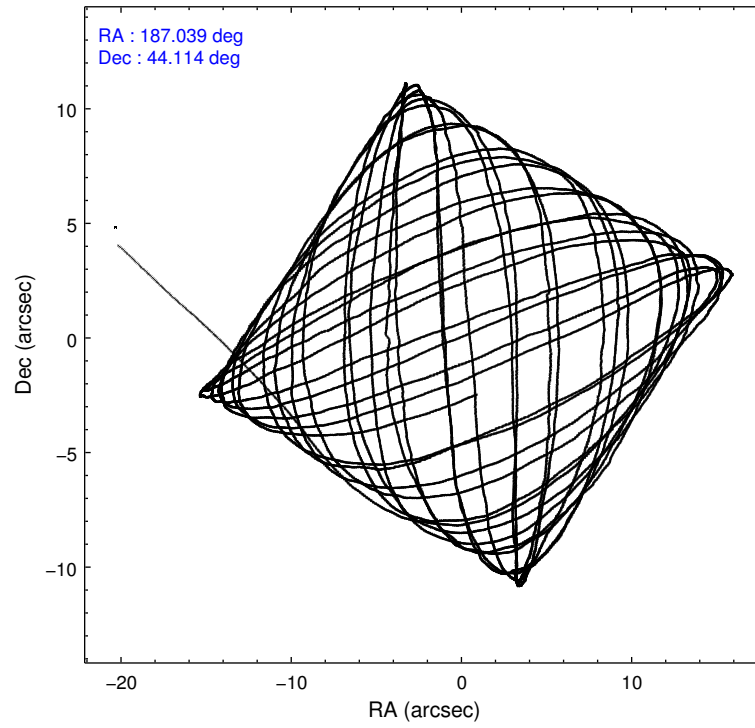
### 2.1.4 Events

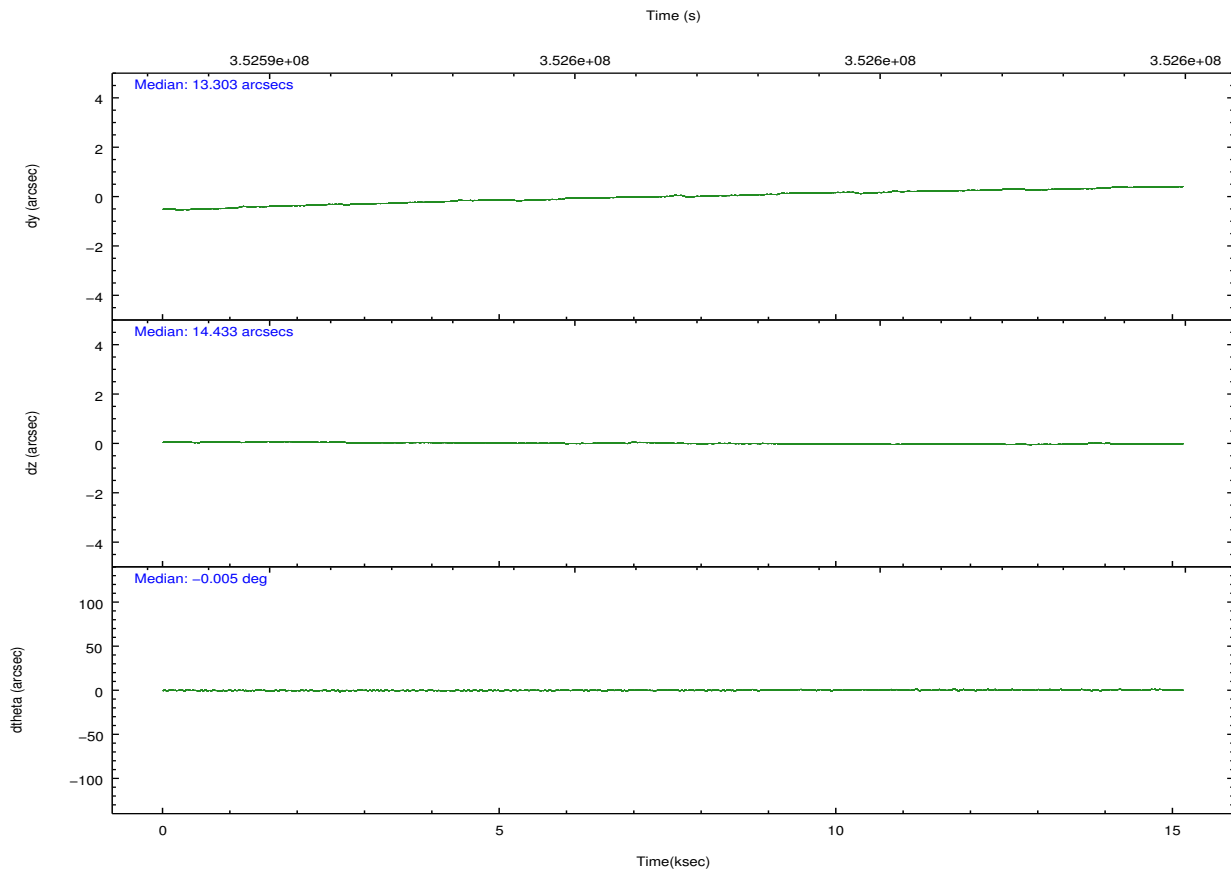
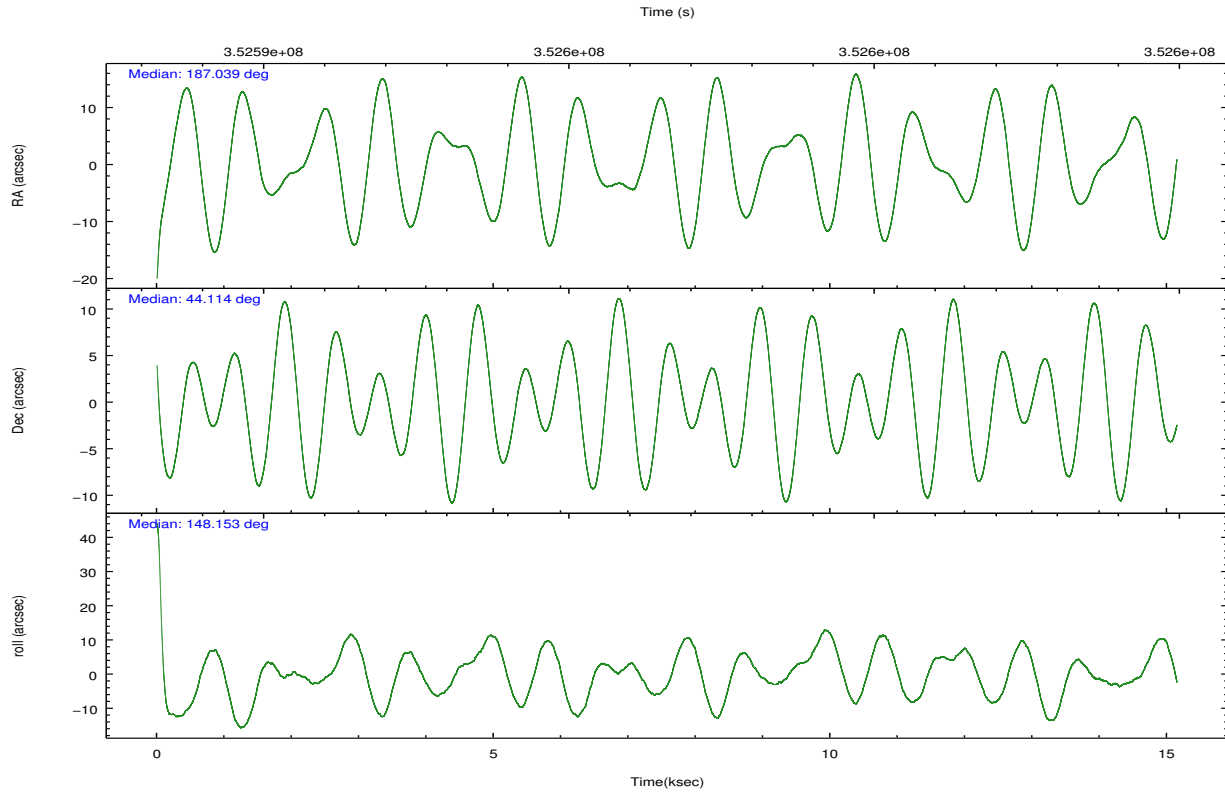
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	137008	122085	169353	126276	125440	157348	grade 0 events	4501	4322	15123	4608	7508	11208
rejected events	125126	110928	80287	113909	64471	119277		3%	3%	8%	3%	5%	7%
rejected %	91%	90%	47%	90%	51%	75%	grade 1 events	78	60	404	67	221	116
								0%	0%	0%	0%	0%	0%
							grade 2 events	3055	2582	27162	2961	13472	9396
								2%	2%	16%	2%	10%	5%
							grade 3 events	1313	1325	3827	1406	5989	4667
								0%	1%	2%	1%	4%	2%
							grade 4 events	1305	1231	3504	1410	5795	4245
								0%	1%	2%	1%	4%	2%
							grade 5 events	3743	4243	13200	4326	13127	6756
								2%	3%	7%	3%	10%	4%
							grade 6 events	2237	2162	43348	2529	30822	10275
								1%	1%	25%	2%	24%	6%
							grade 7 events	120776	106160	62785	108969	48506	110685
								88%	86%	37%	86%	38%	70%

## 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	187.076740	187.03862014187	CCD I2 on	Y	Y
[deg] Pointing Dec	44.113007	44.11348370624553	CCD I3 on	Y	Y
[deg] Pointing Roll	147.978192	148.1614013369696	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	352589179.184000	352587649.99184	CCD S5 on	N	N
Observation start date	2009-03-04T21:25:13	2009-03-04T21:00:49	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	352604179.184000	352604930.9802	On-chip summing requested	N	N
Observation end date	2009-03-05T01:35:13	2009-03-05T01:48:50	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



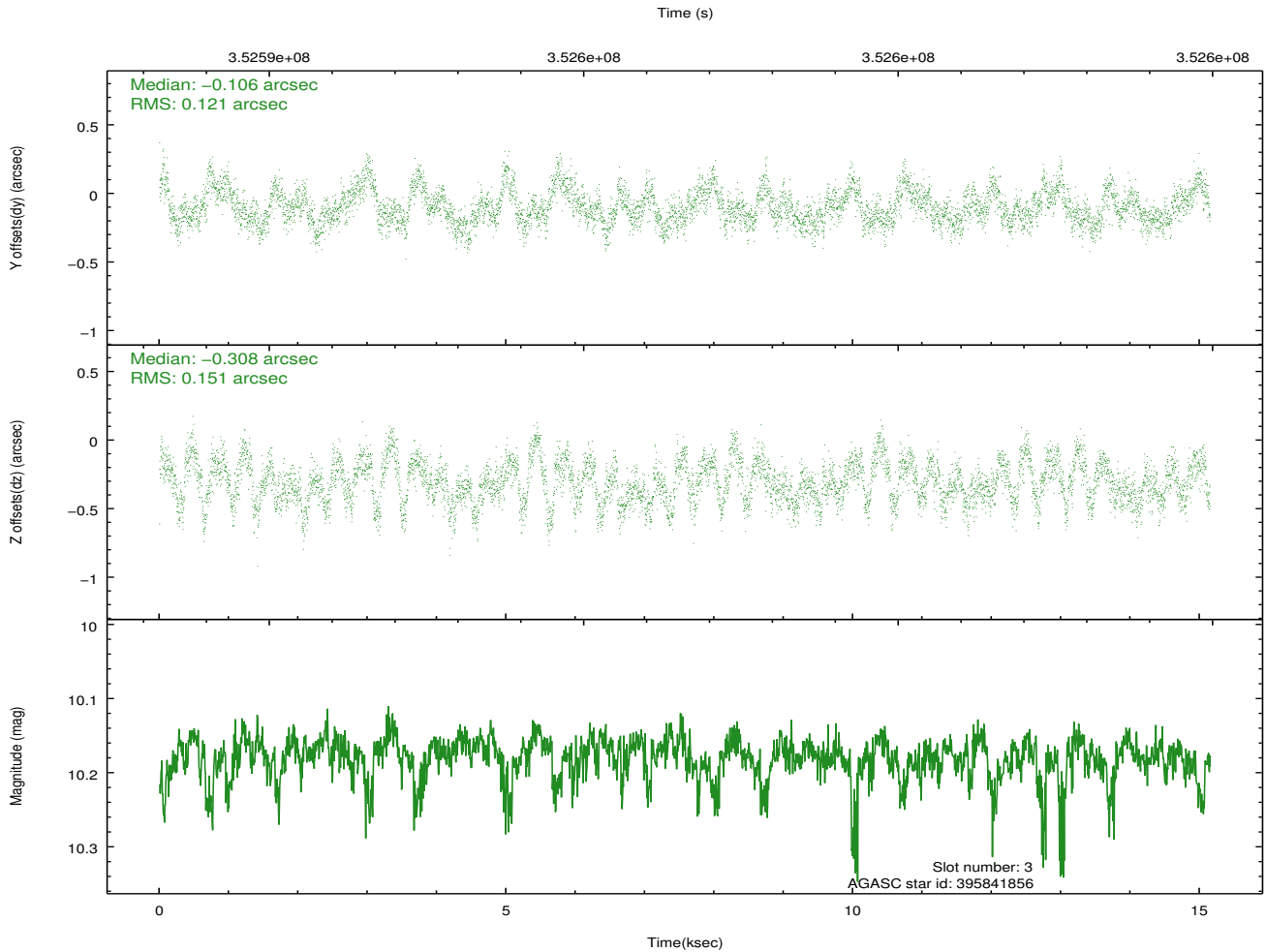
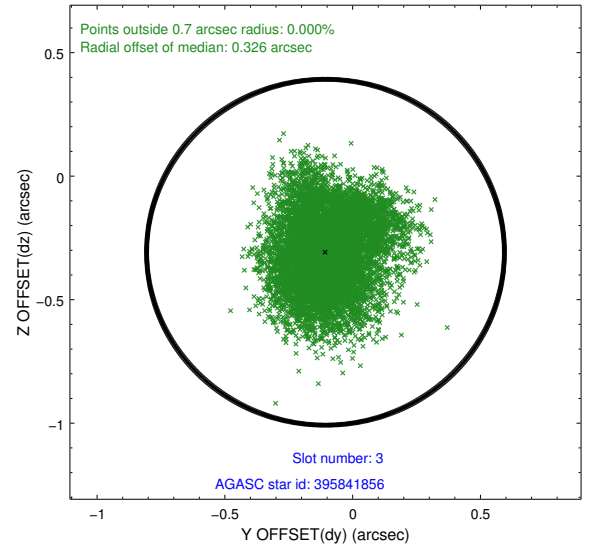
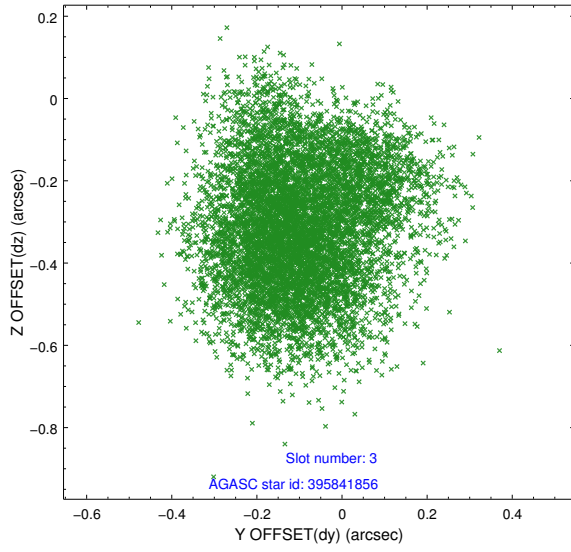


### Slot Statistics

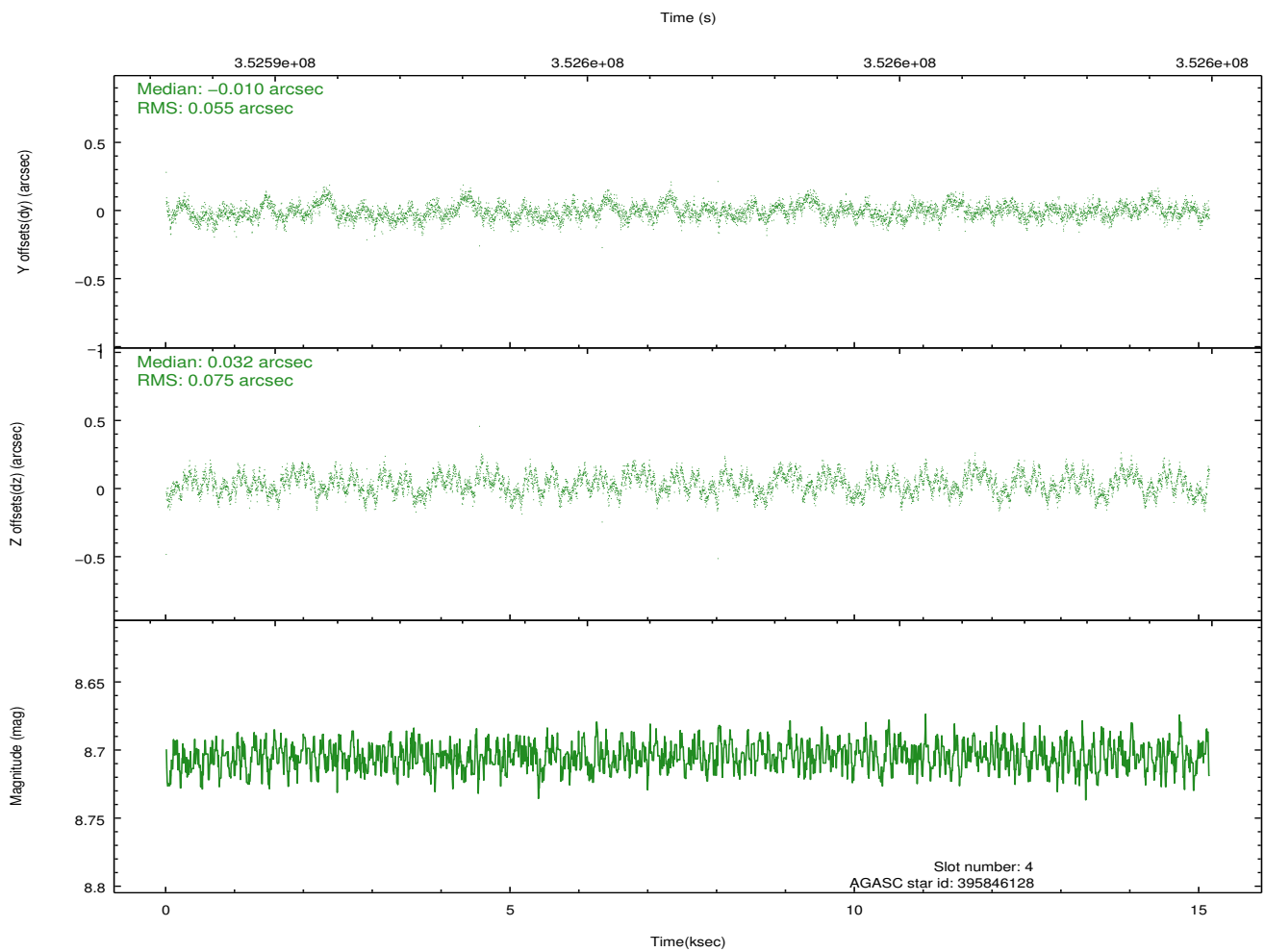
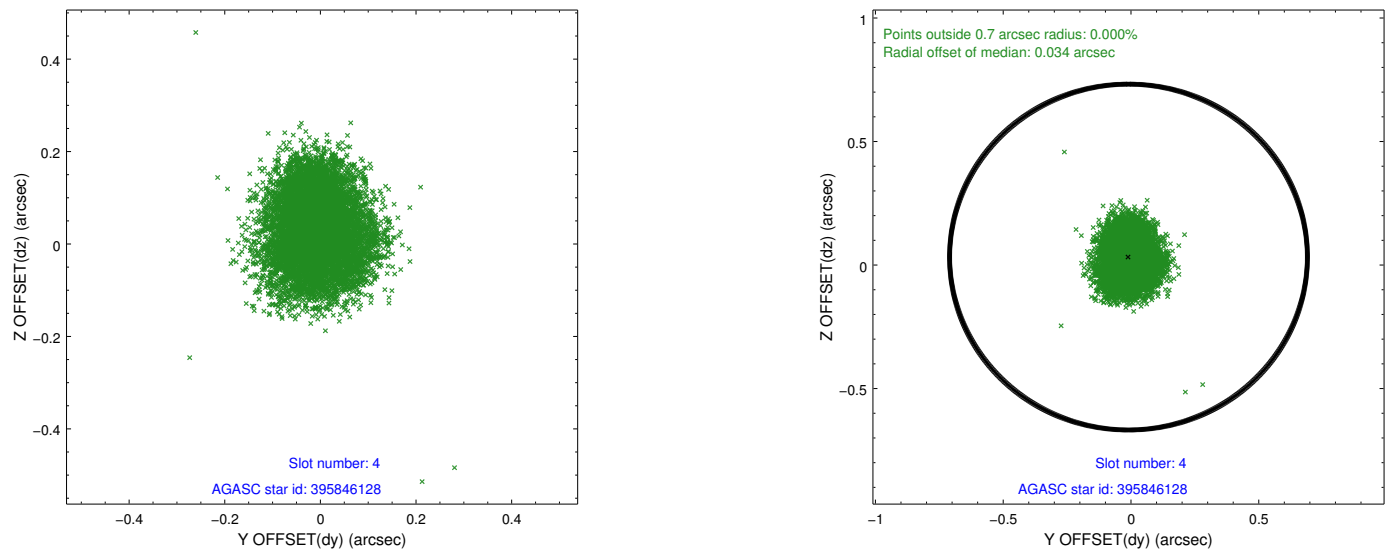
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.92	3695	-0.047	-0.032	0.008	0.014	0.000000	0.000000	-766.24	-1735.84
1	FID	ACIS-S-4	7.00	3695	0.170	0.032	0.009	0.017	0.000000	0.000000	2147.10	172.43
2	FID	ACIS-S-5	7.03	3694	-0.155	0.009	0.009	0.015	0.000000	0.000000	-1818.83	166.37
3	GUIDE	395841856	10.18	7372	-0.106	-0.308	0.211	0.327	186.845350	43.492263	-672.25	2214.36
4	GUIDE	395846128	8.70	7386	-0.010	0.032	0.101	0.154	187.720764	44.188706	-1261.28	-1117.77
5	GUIDE	395846264	9.49	7380	0.078	0.023	0.124	0.199	187.191241	44.211279	-62.61	-456.75
6	GUIDE	395855392	9.85	7379	-0.095	0.043	0.130	0.211	186.593517	44.710998	2191.89	-1172.15
7	GUIDE	395850104	9.64	7383	0.120	0.207	0.119	0.192	187.948425	43.919929	-2277.93	-619.49

## 2.4 Star Slots

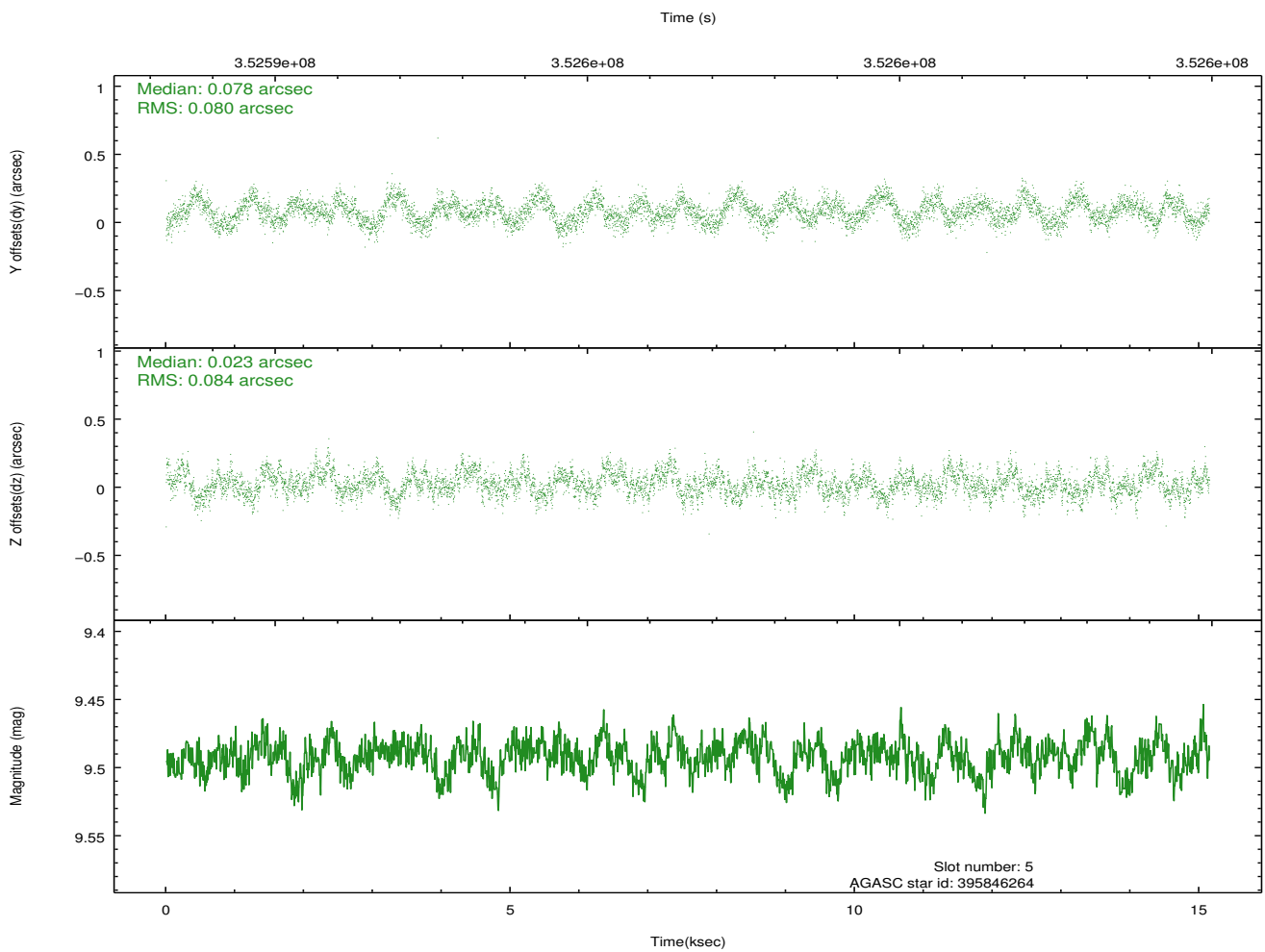
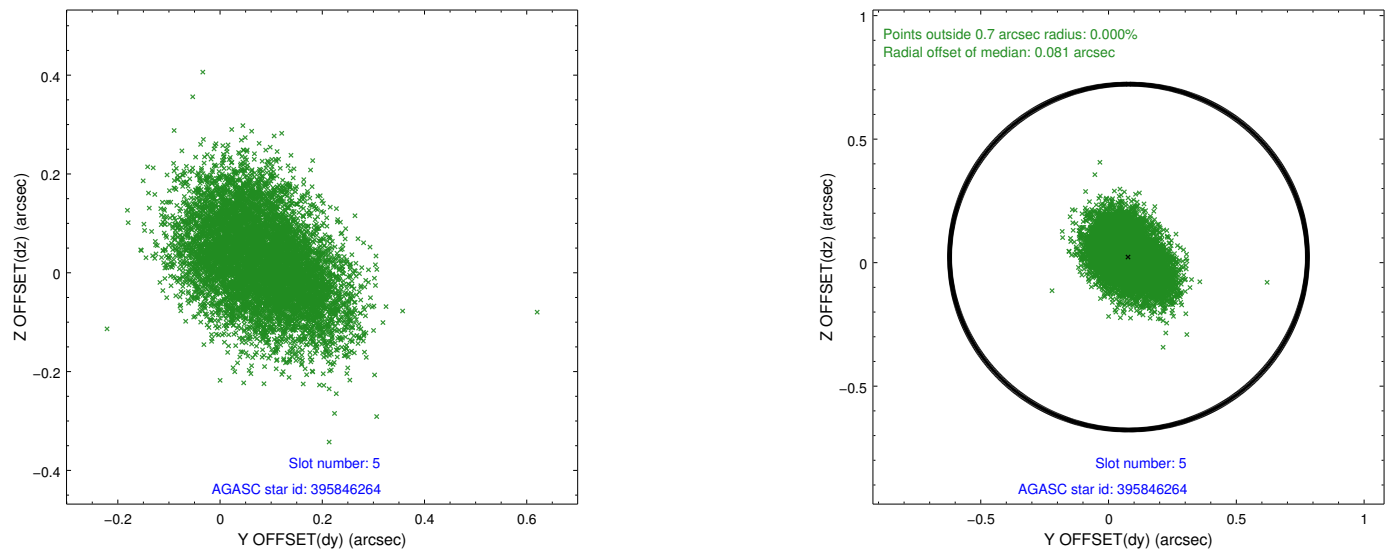
### 2.4.1 Slot 3



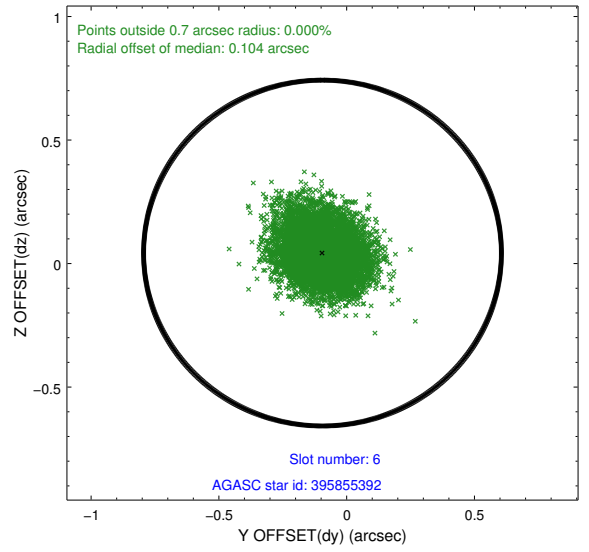
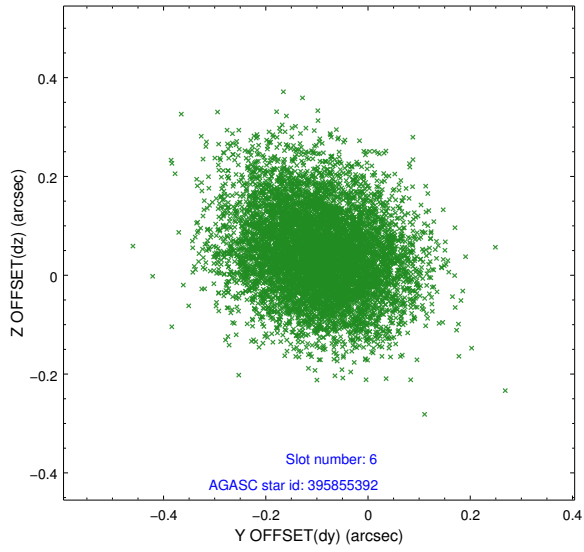
## 2.4.2 Slot 4



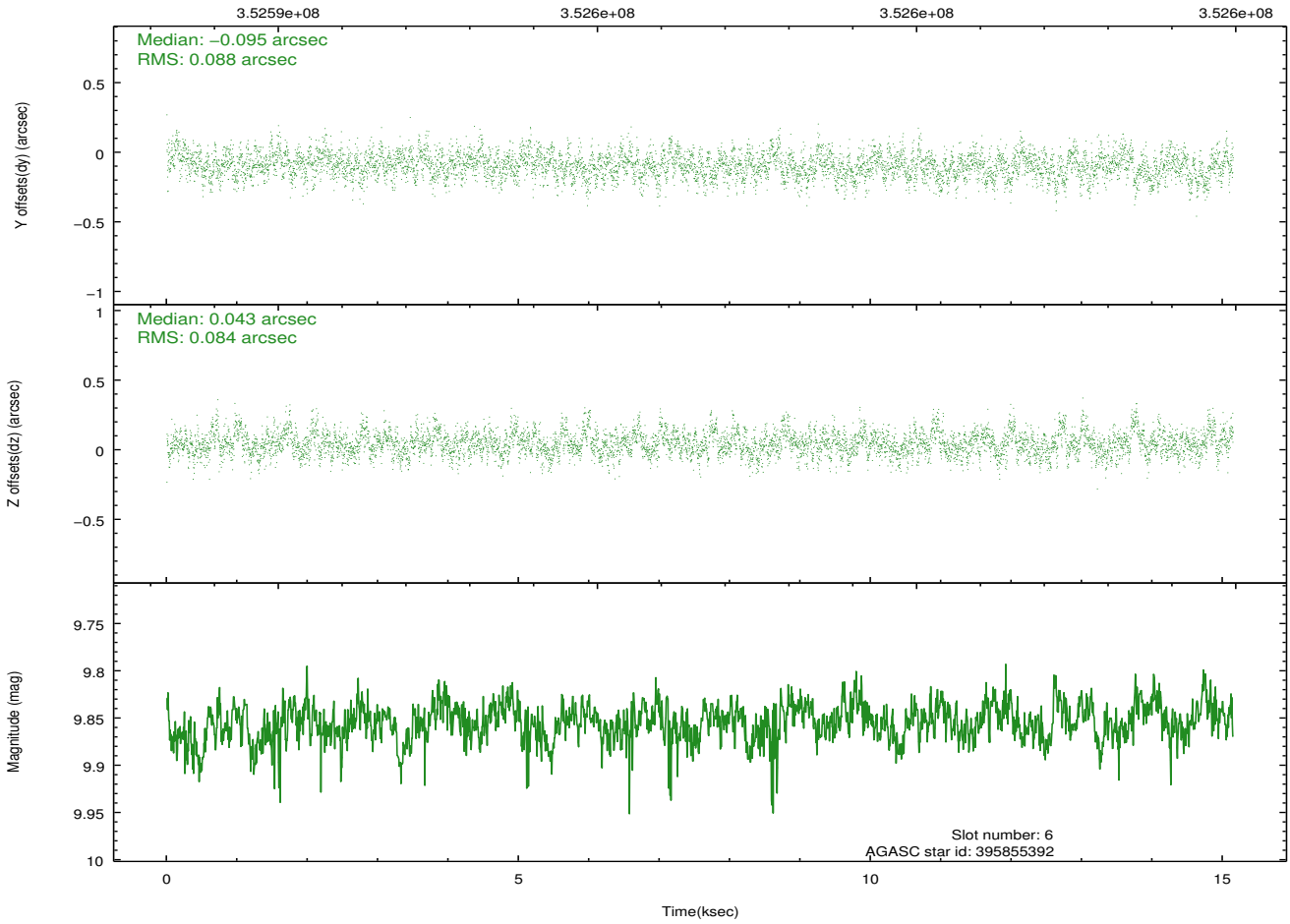
### 2.4.3 Slot 5



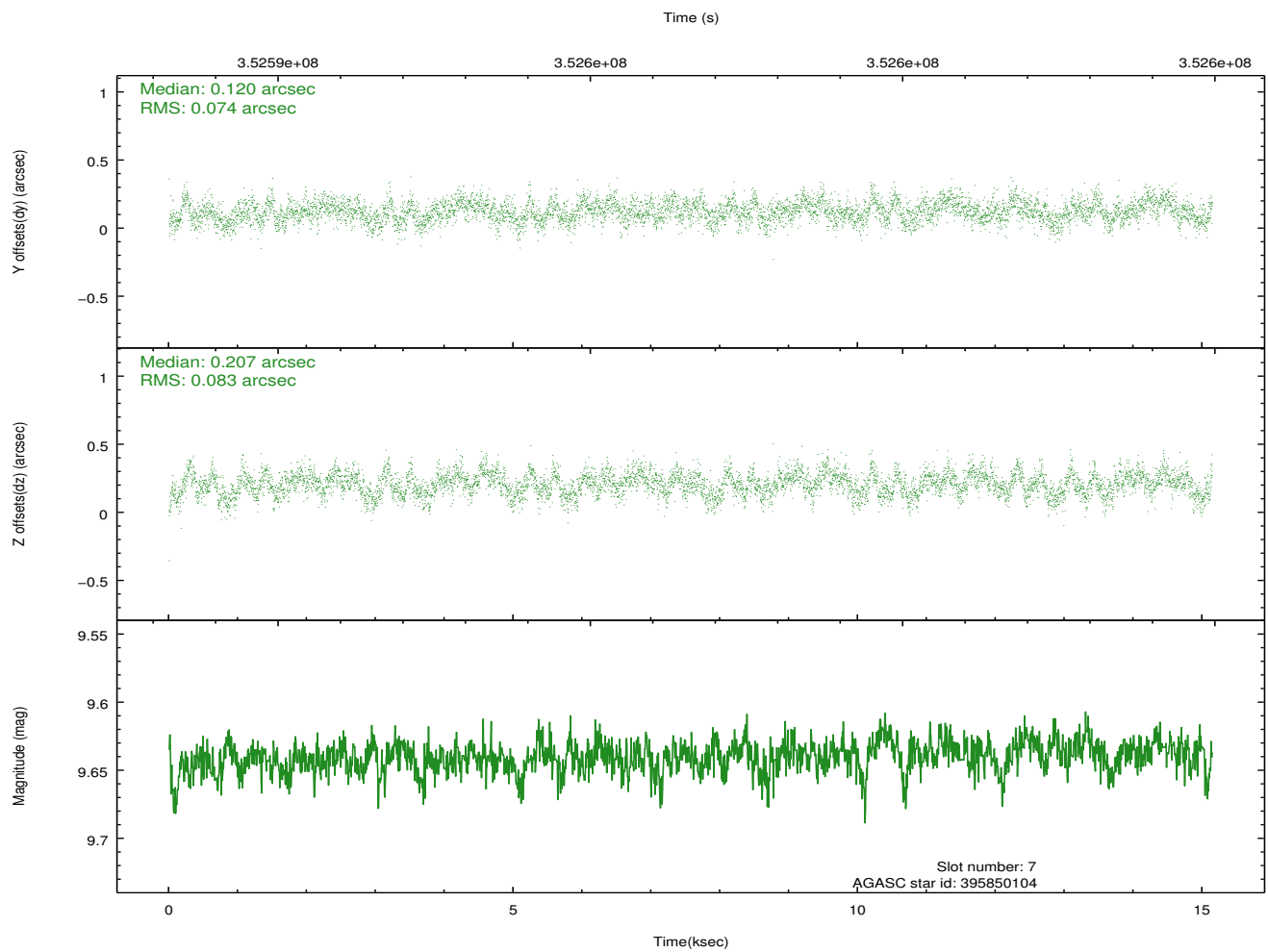
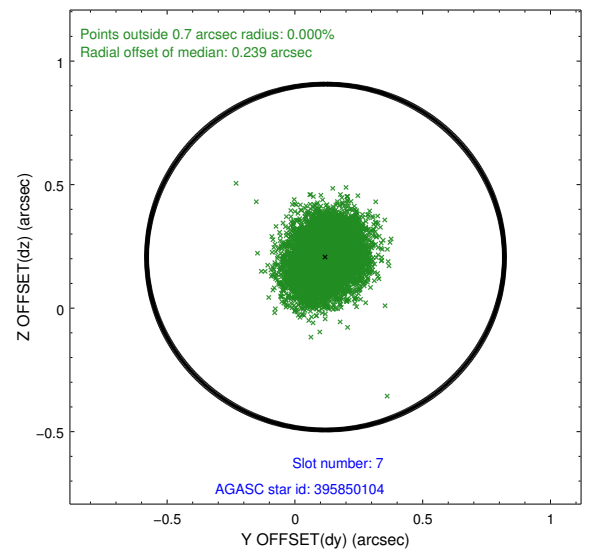
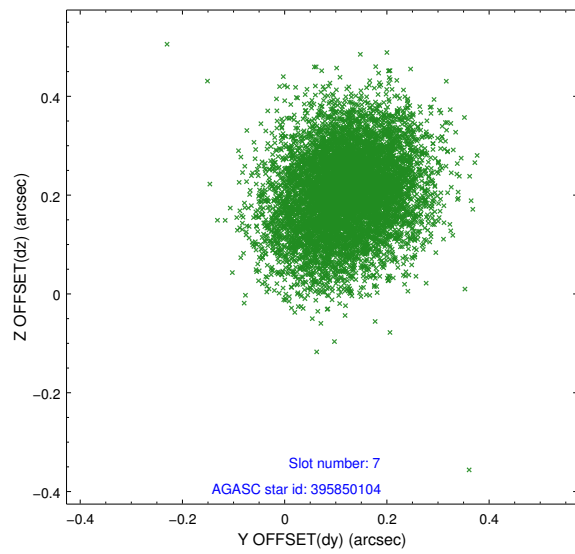
## 2.4.4 Slot 6



Time (s)

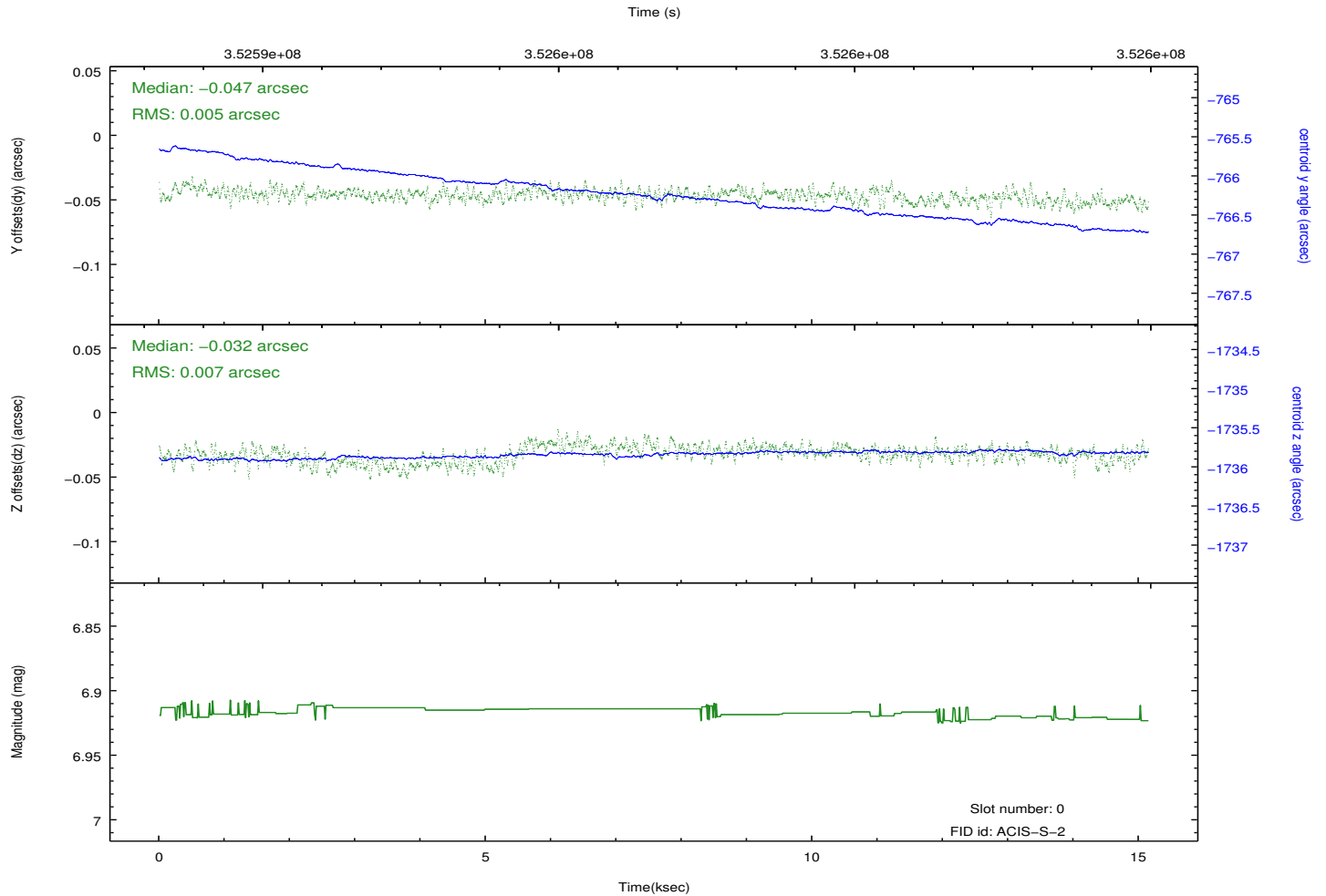
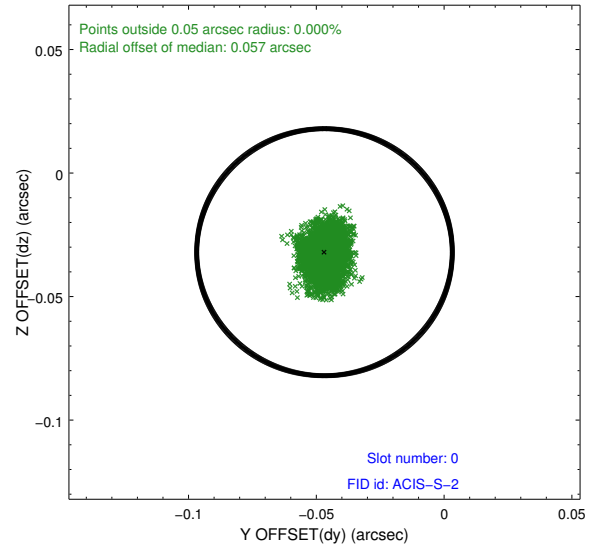
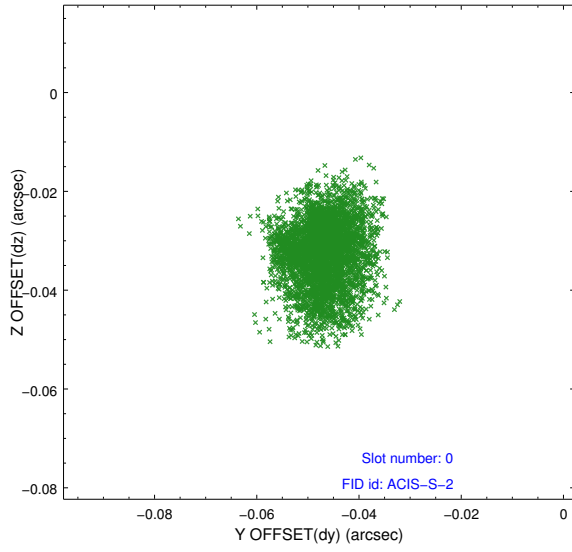


## 2.4.5 Slot 7

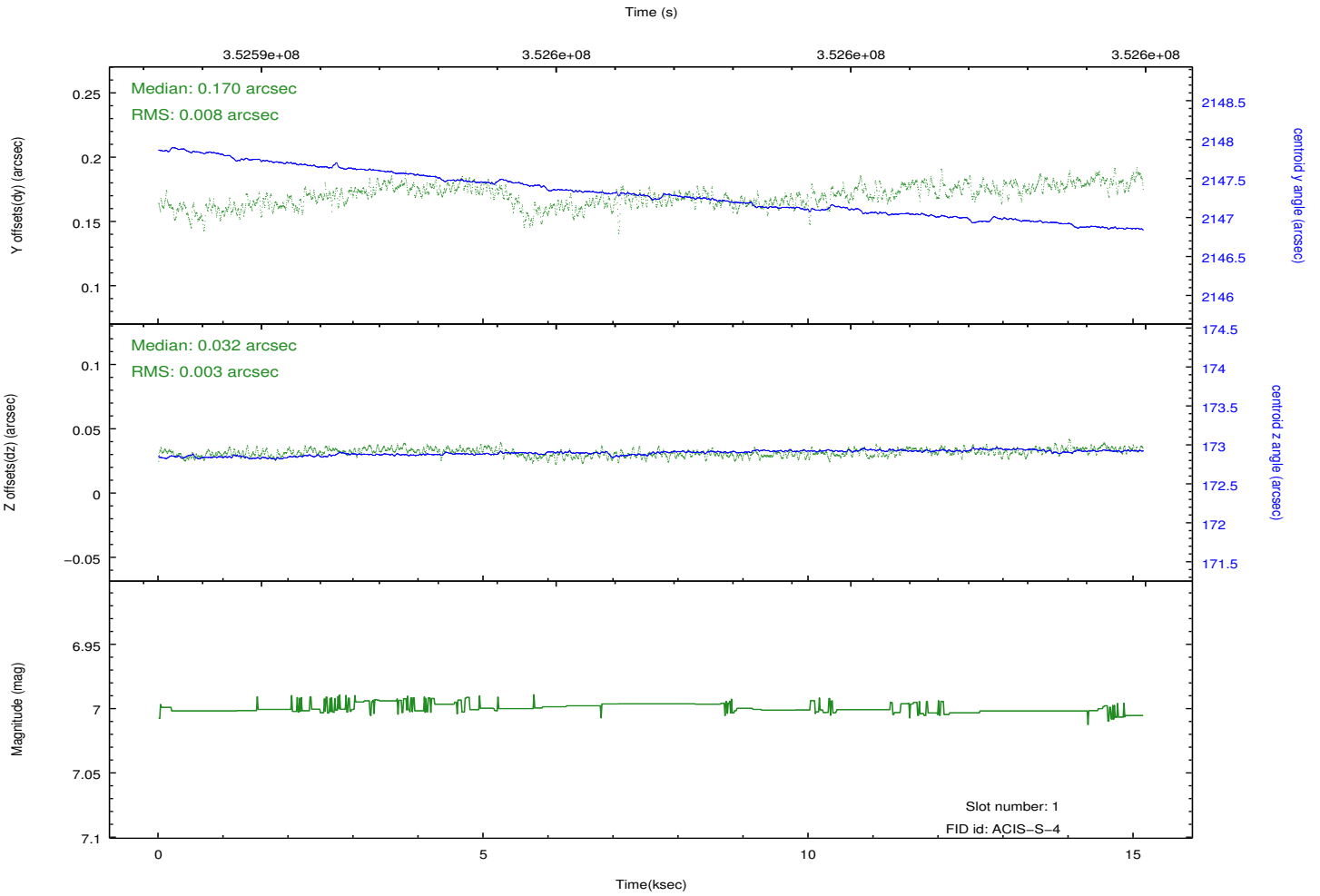
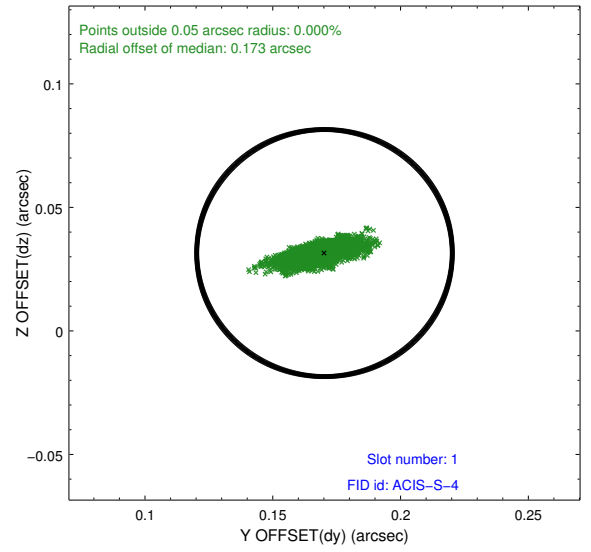
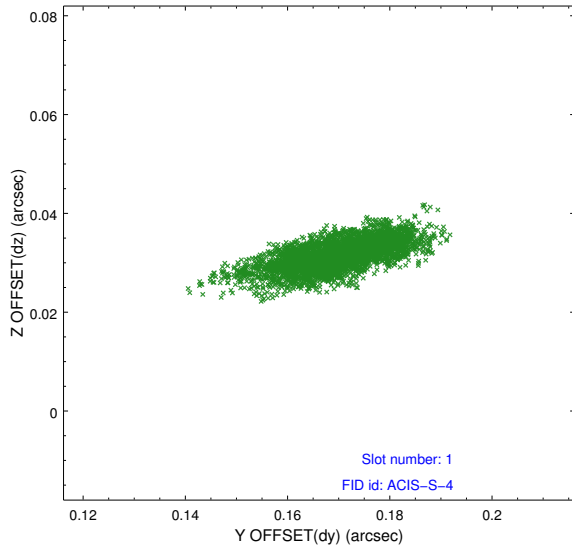


## 2.5 FID Slots

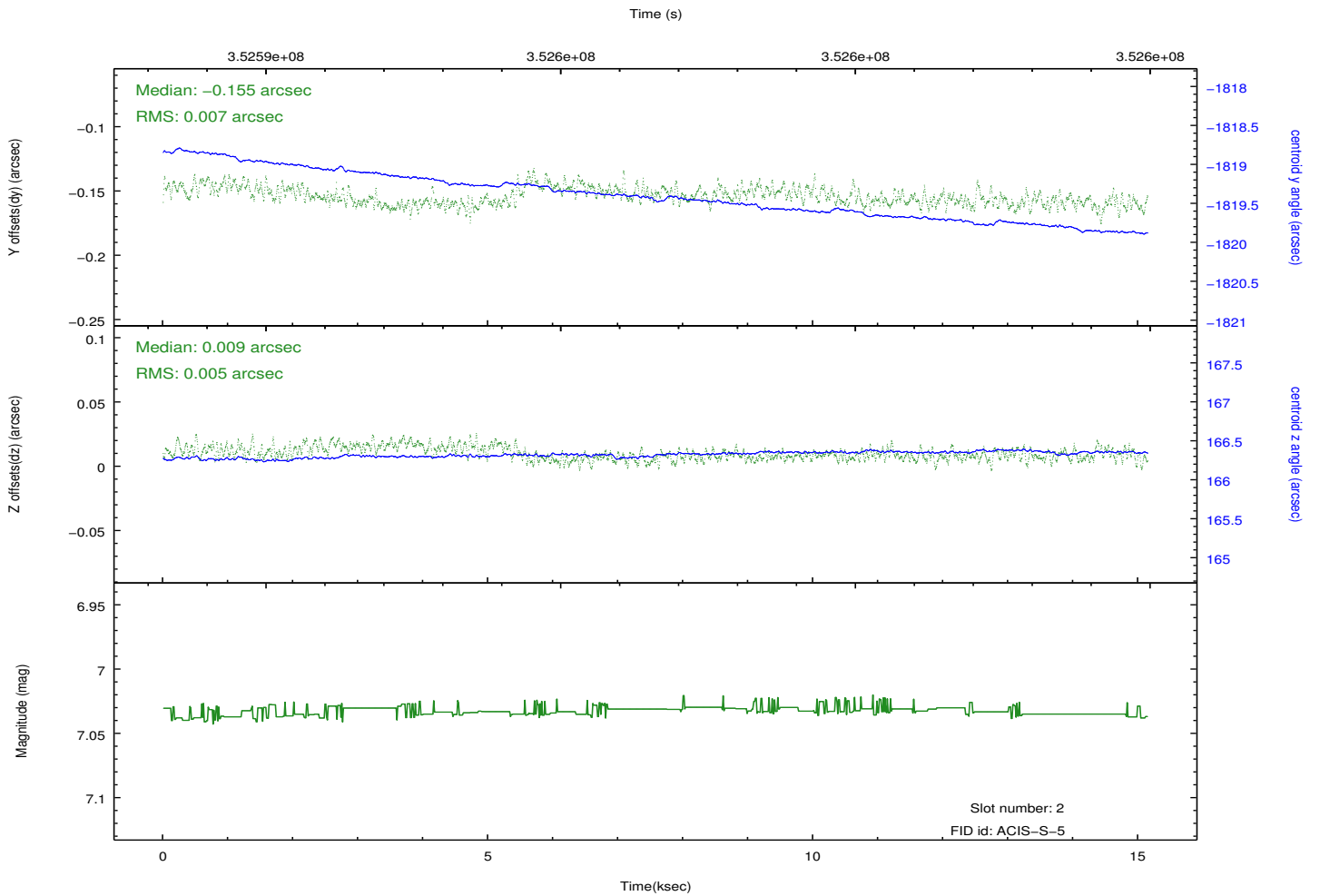
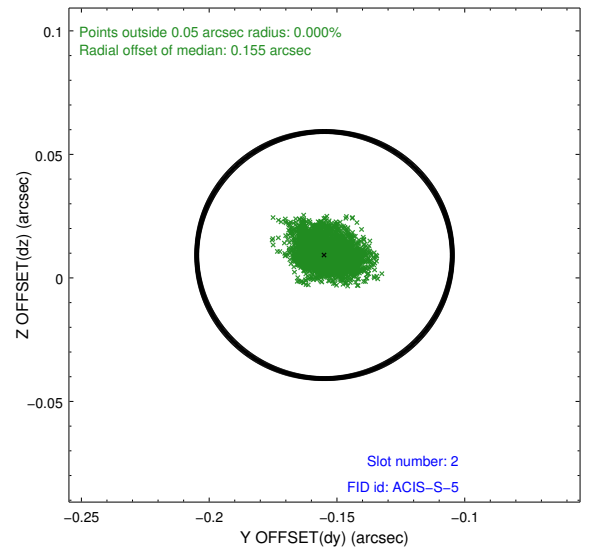
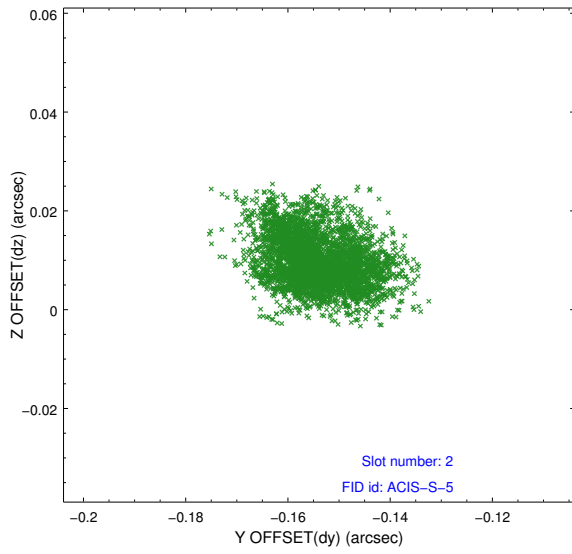
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.1391999

## A.2 Comments

Joint Proposal: NOAO. Roll preference met.