

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 12862 - L2 Version 2  
Chandra X-Ray Center

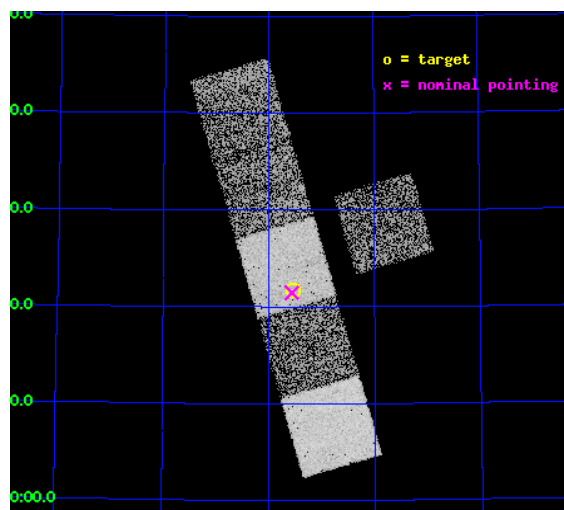
L2 Processing Date : Jul 7 2012

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# 1 Front

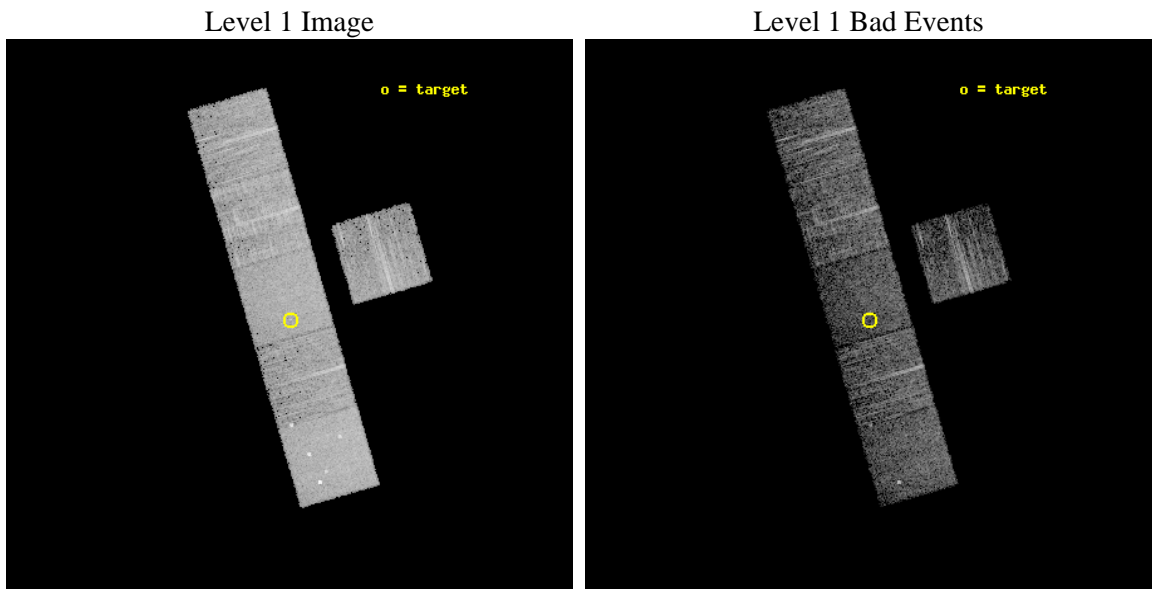
seq_num	702495	Sequence number
obs_id	12862	Observation id
title	Chandra Survey of Hard X-ray Selected Merging AGN Hosts	Proposal t
observer	Dr. Richard Mushotzky	Principal investigator
object	2MASX J00253292+6821442	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	6.387083	Observer's specified target RA [deg]
dec_targ	68.362194	Observer's specified target Dec [deg]
ra_nom	6.390535349153	Nominal RA [deg]
dec_nom	68.357431636659	Nominal Dec [deg]
roll_nom	253.82706361823	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4958.931846559	Sum of GTIs [s]
livetime	4896.1388656076	Livetime [s]
ontime3	4958.8087265491	Sum of GTIs [s]
ontime5	4958.8908065557	Sum of GTIs [s]
ontime6	4958.8497665524	Sum of GTIs [s]
ontime7	4958.931846559	Sum of GTIs [s]
ontime8	4958.7676865458	Sum of GTIs [s]
ontime9	4958.9728865623	Sum of GTIs [s]
l2events	59387	Number of level 2 events



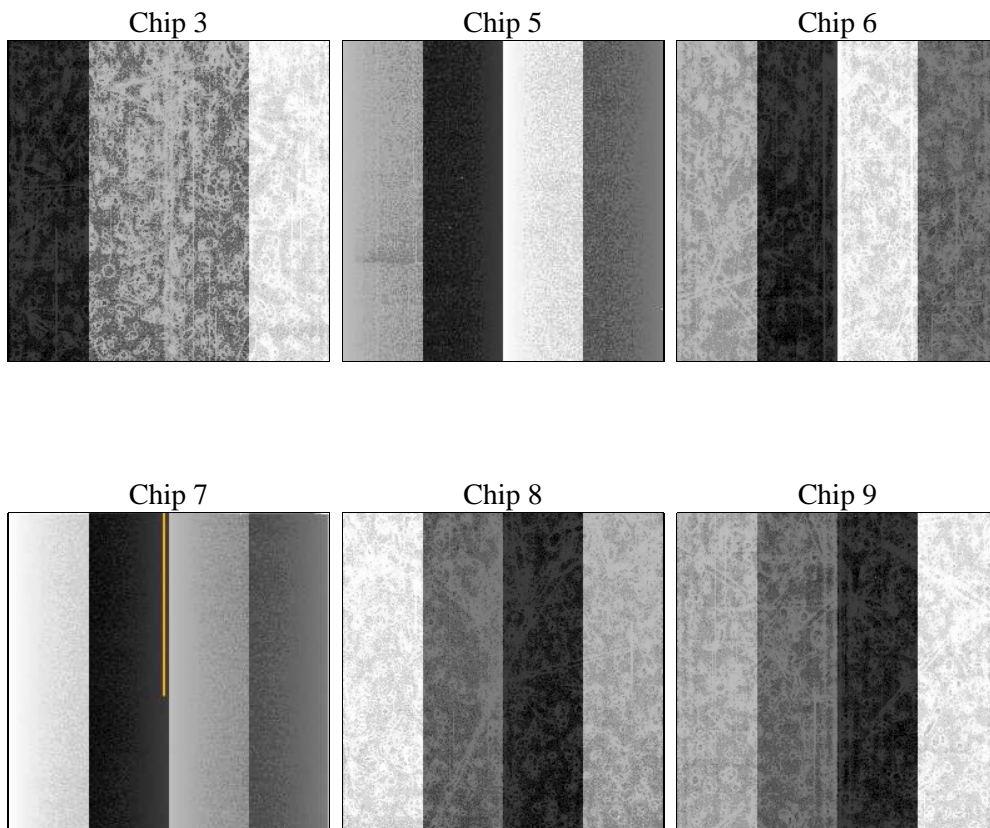
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.314000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4958.931846559	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime3	4958.8087265491	Sum of GTIs [s]
date	2012-07-07T17:04:48	Date and time of file creation	ontime5	4958.8908065557	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	4958.8497665524	Sum of GTIs [s]
			ontime7	4958.931846559	Sum of GTIs [s]
			ontime8	4958.7676865458	Sum of GTIs [s]
			ontime9	4958.9728865623	Sum of GTIs [s]
			l1events	251501	Number of level 1 events

### 2.1.4 Events

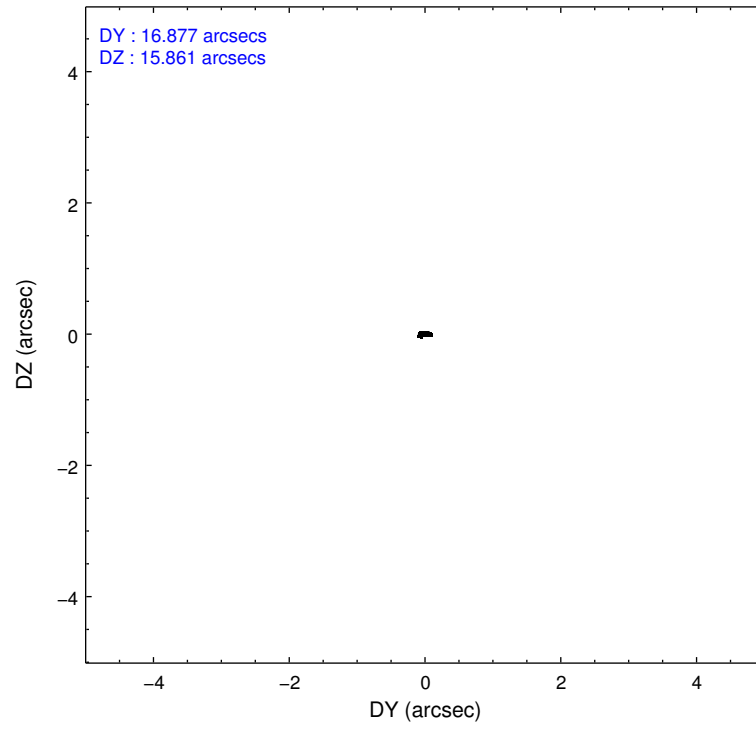
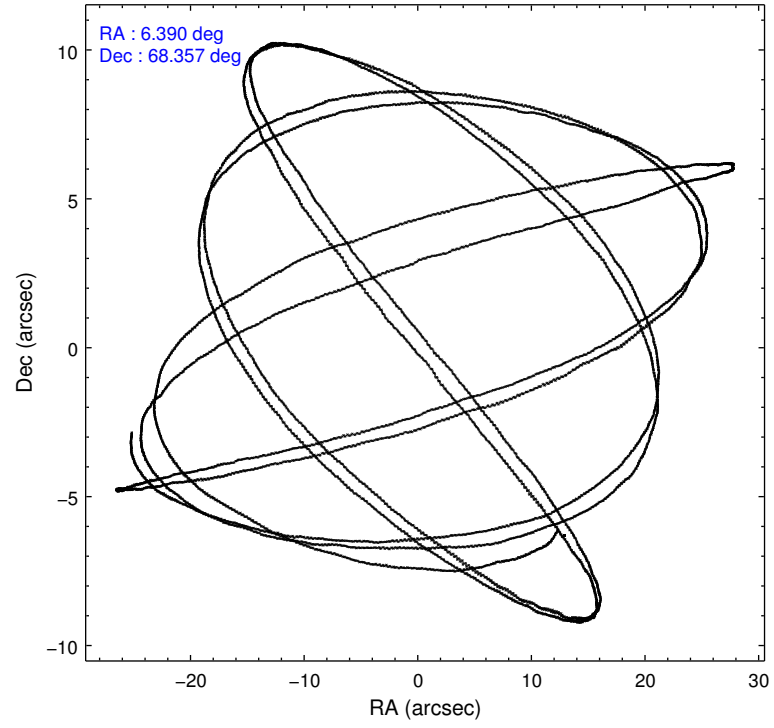
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 3	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	32990	56161	35258	43810	45480	37802	grade 0 events	1271	3349	1467	1763	3579	1640
rejected events	29445	28079	31163	24026	33481	33356		3%	5%	4%	4%	7%	4%
rejected %	89%	49%	88%	54%	73%	88%	grade 1 events	22	153	16	49	39	16
								0%	0%	0%	0%	0%	0%
							grade 2 events	795	8686	990	4014	2830	928
								2%	15%	2%	9%	6%	2%
							grade 3 events	397	988	366	1820	1182	494
								1%	1%	1%	4%	2%	1%
							grade 4 events	396	992	382	1792	1150	475
								1%	1%	1%	4%	2%	1%
							grade 5 events	1507	4128	1608	4581	2290	1868
								4%	7%	4%	10%	5%	4%
							grade 6 events	691	14102	896	10413	3268	918
								2%	25%	2%	23%	7%	2%
							grade 7 events	27911	23763	29533	19378	31142	31463
								84%	42%	83%	44%	68%	83%

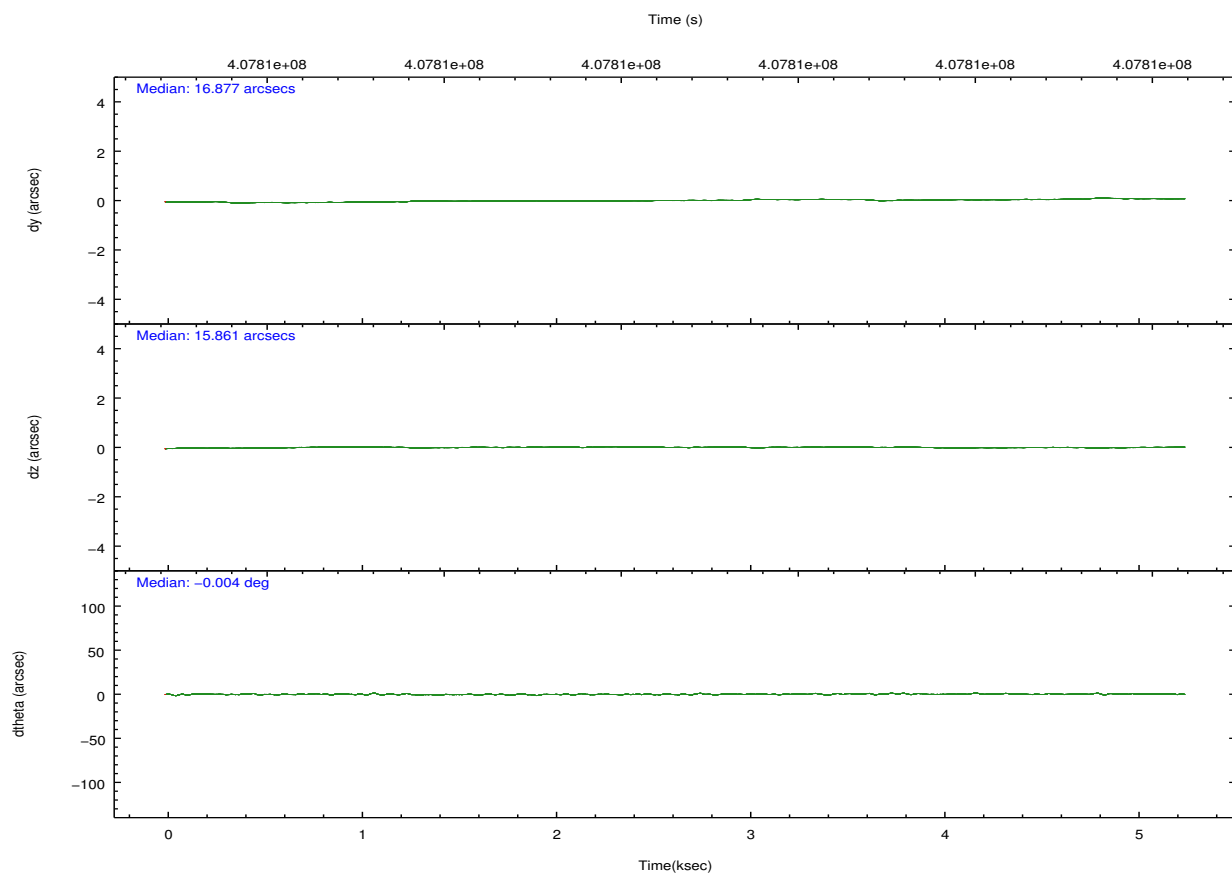
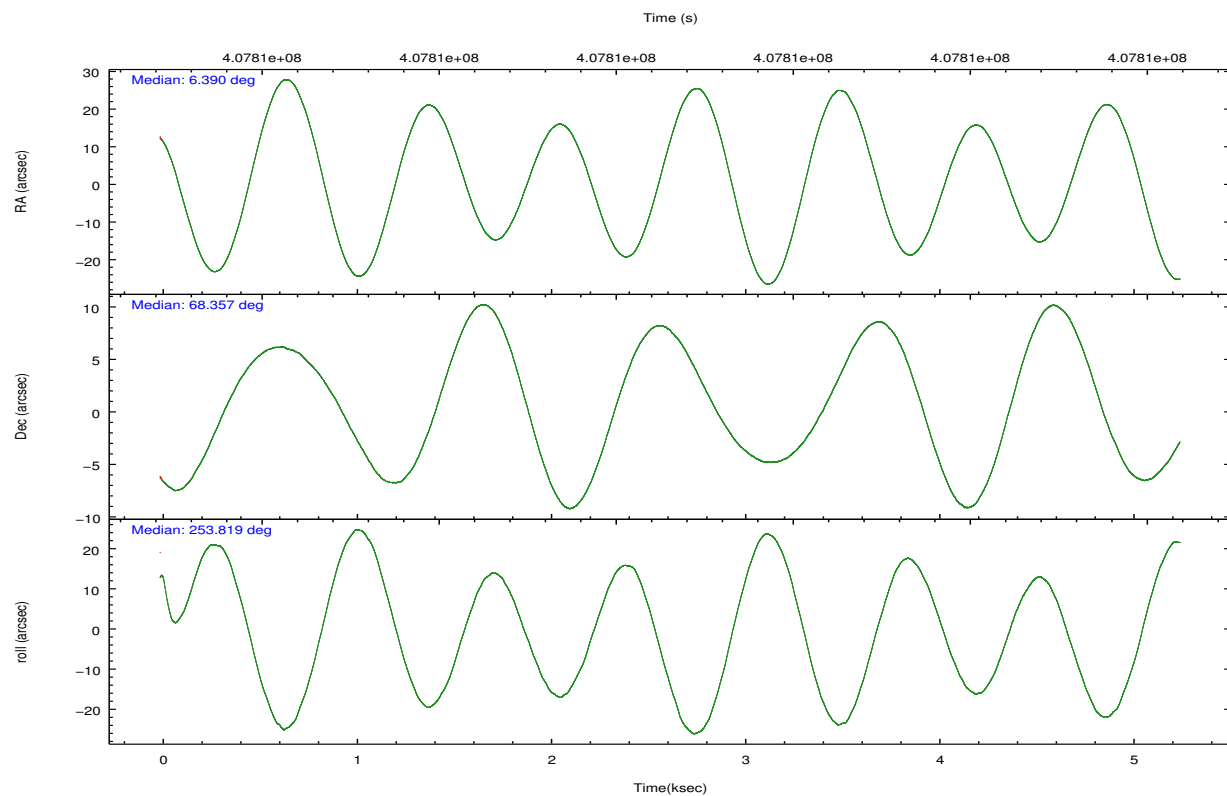


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-356789	ACIS-356789	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	6.371883	6.390535349152991	CCD I2 on	N	N
[deg] Pointing Dec	68.383966	68.35743163665936	CCD I3 on	O1	Y
[deg] Pointing Roll	253.687721	253.8270636182302	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	407807916.184000	407806924.28519	CCD S5 on	O2	Y
Observation start date	2010-12-03T23:57:30	2010-12-03T23:42:04	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	407812916.184000	407813141.93551	On-chip summing requested	N	N
Observation end date	2010-12-04T01:20:50	2010-12-04T01:25:41	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



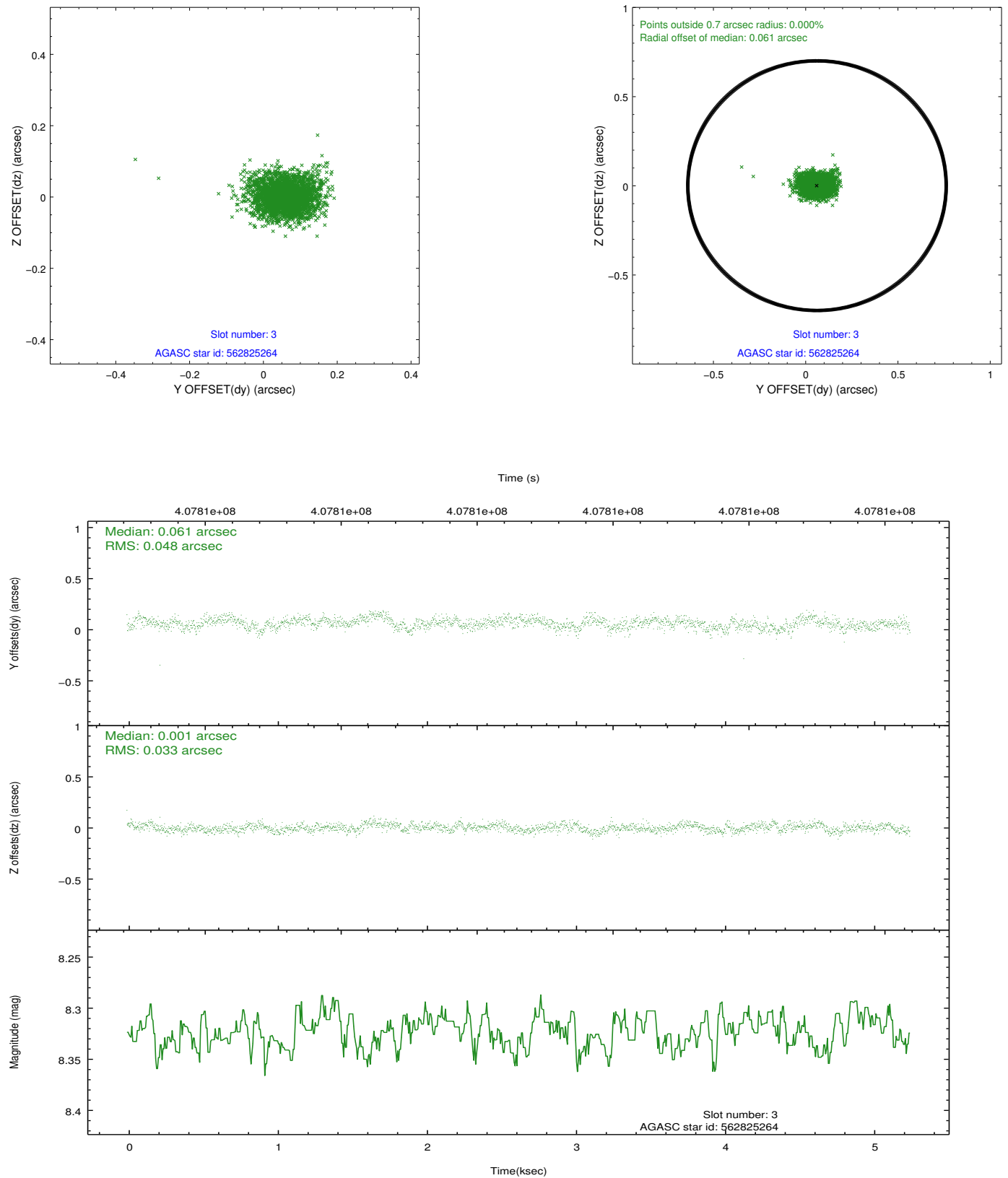


### Slot Statistics

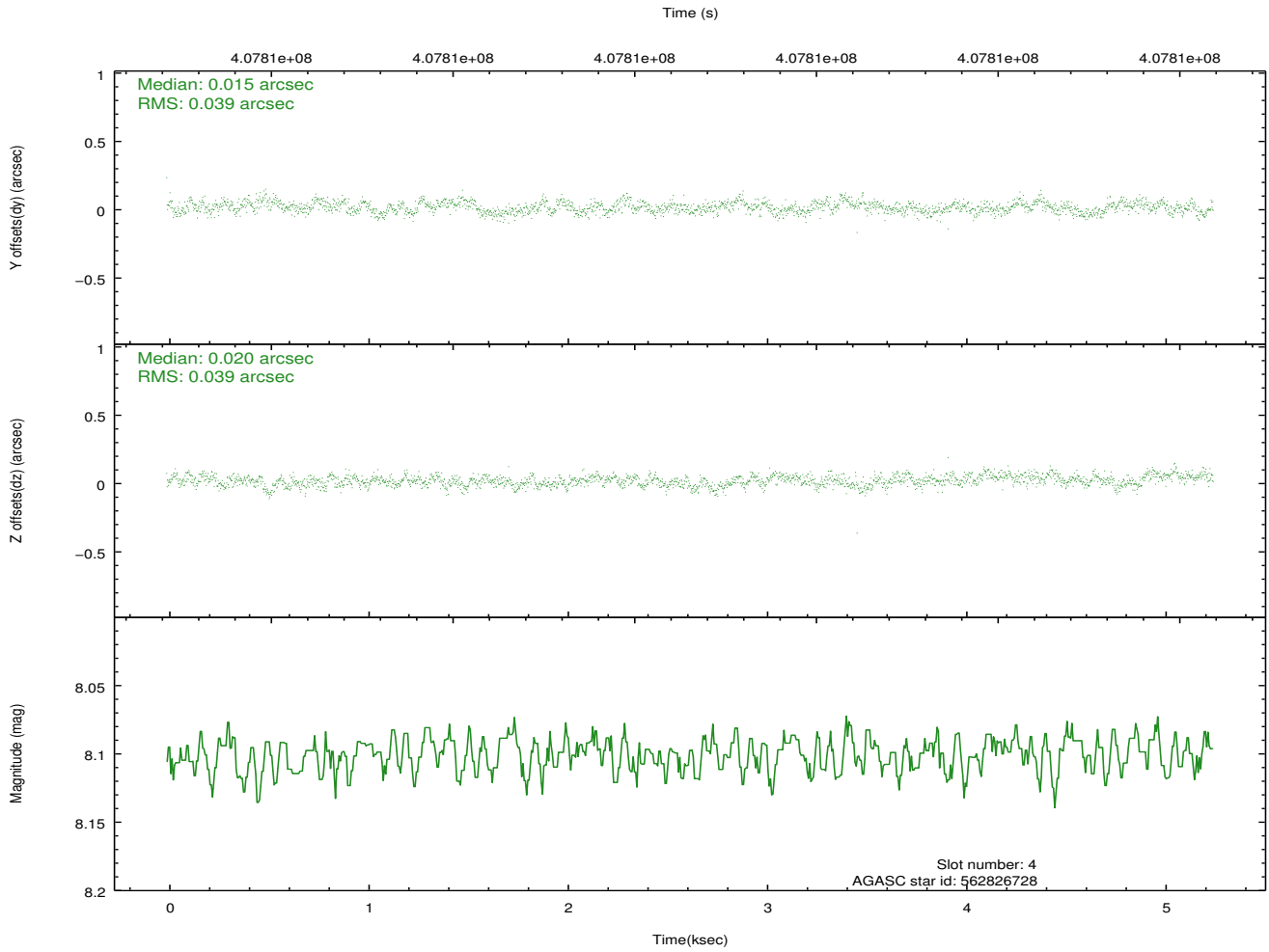
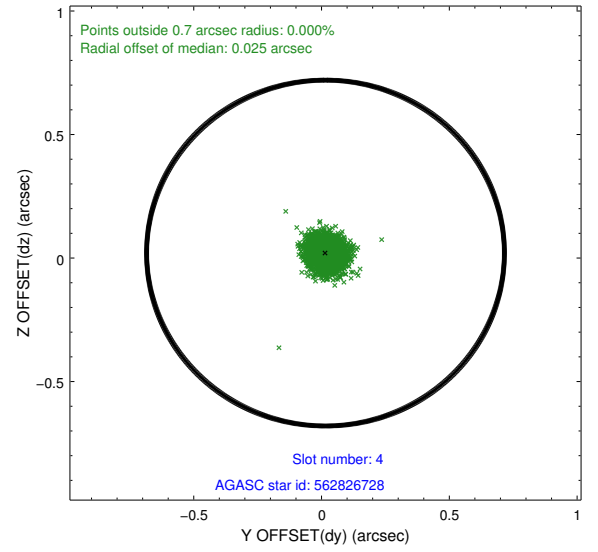
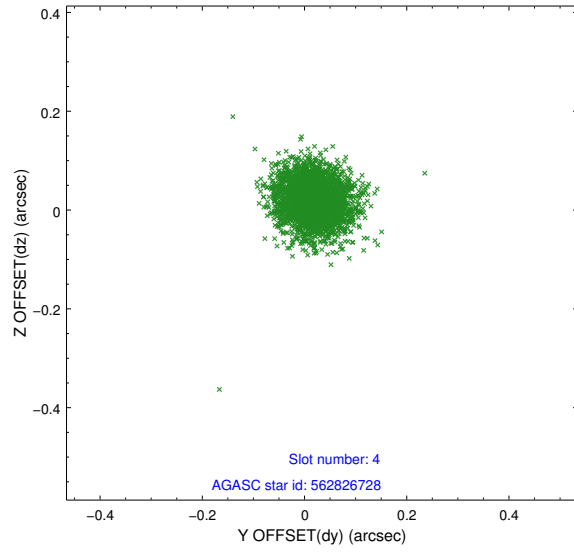
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.93	1282	-0.085	-0.055	0.009	0.017	0.000000	0.000000	-769.99	-1737.31
1	FID	ACIS-S-4	7.02	1282	0.140	0.025	0.009	0.014	0.000000	0.000000	2142.99	170.04
2	FID	ACIS-S-6	7.15	1282	-0.082	0.037	0.009	0.017	0.000000	0.000000	393.48	808.77
3	GUIDE	562825264	8.32	2561	0.061	0.001	0.060	0.103	5.687336	67.870010	2031.74	-372.23
4	GUIDE	562826728	8.10	2562	0.015	0.020	0.058	0.092	4.699848	68.500142	190.53	-2243.04
5	GUIDE	562827960	7.90	2563	0.062	-0.053	0.055	0.088	5.093376	68.847025	-1149.87	-2066.89
6	GUIDE	562955216	9.28	2554	-0.022	0.217	0.084	0.140	7.973830	68.777166	-1971.61	1597.55
7	GUIDE	562963336	8.07	2561	-0.117	-0.185	0.057	0.093	7.274835	68.259627	81.95	1279.44

## 2.4 Star Slots

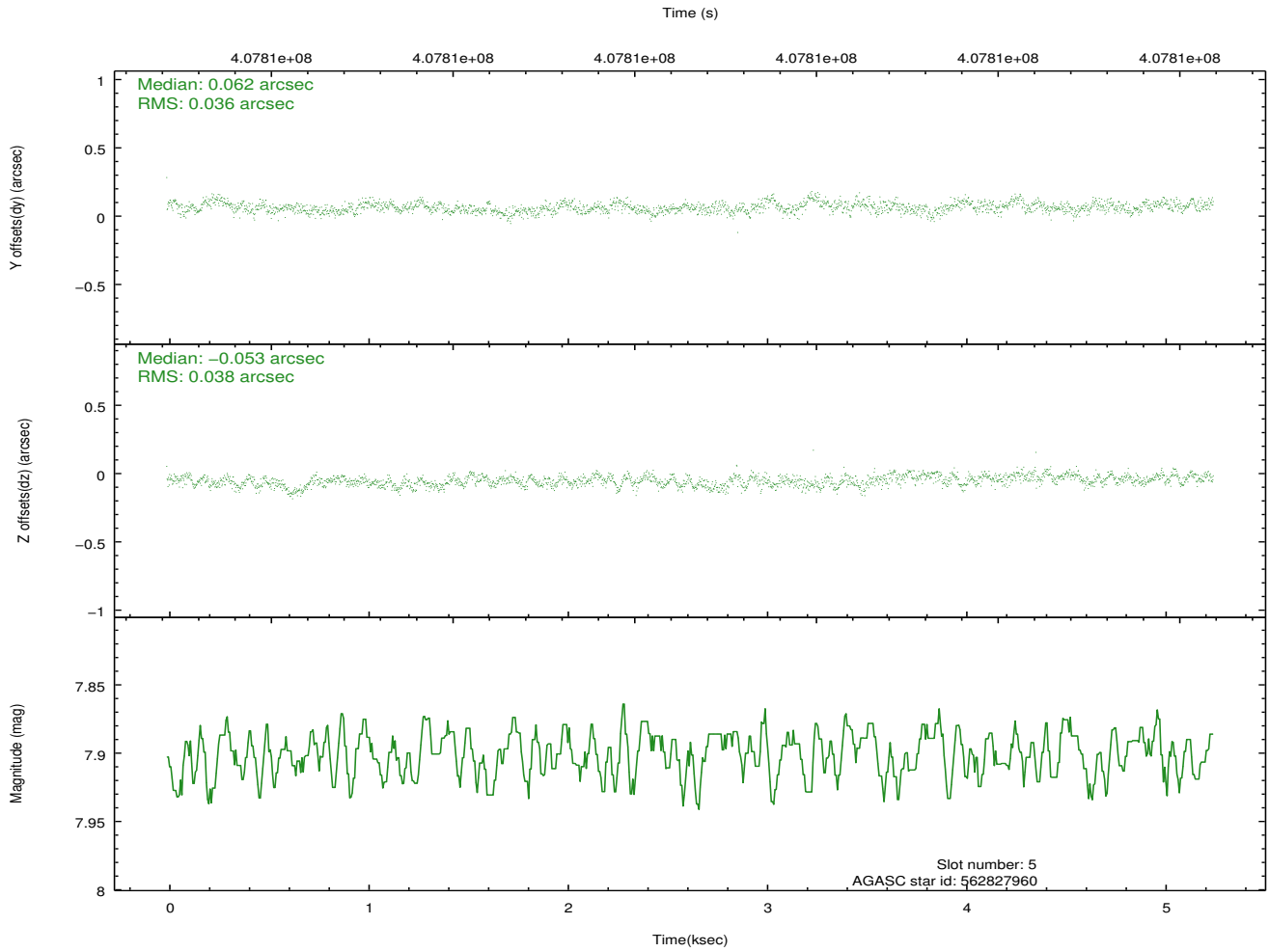
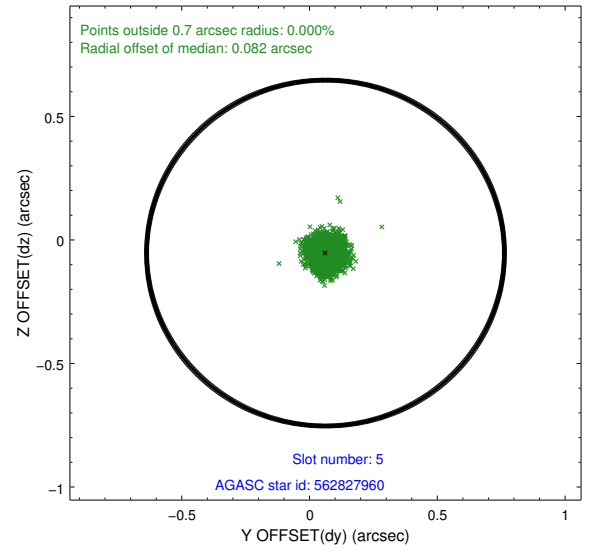
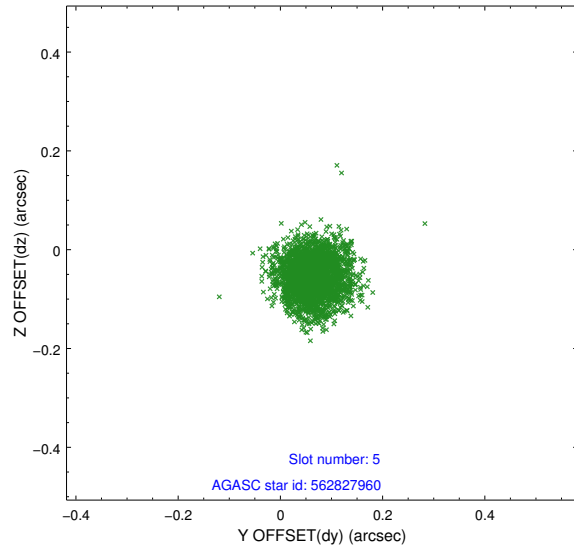
### 2.4.1 Slot 3



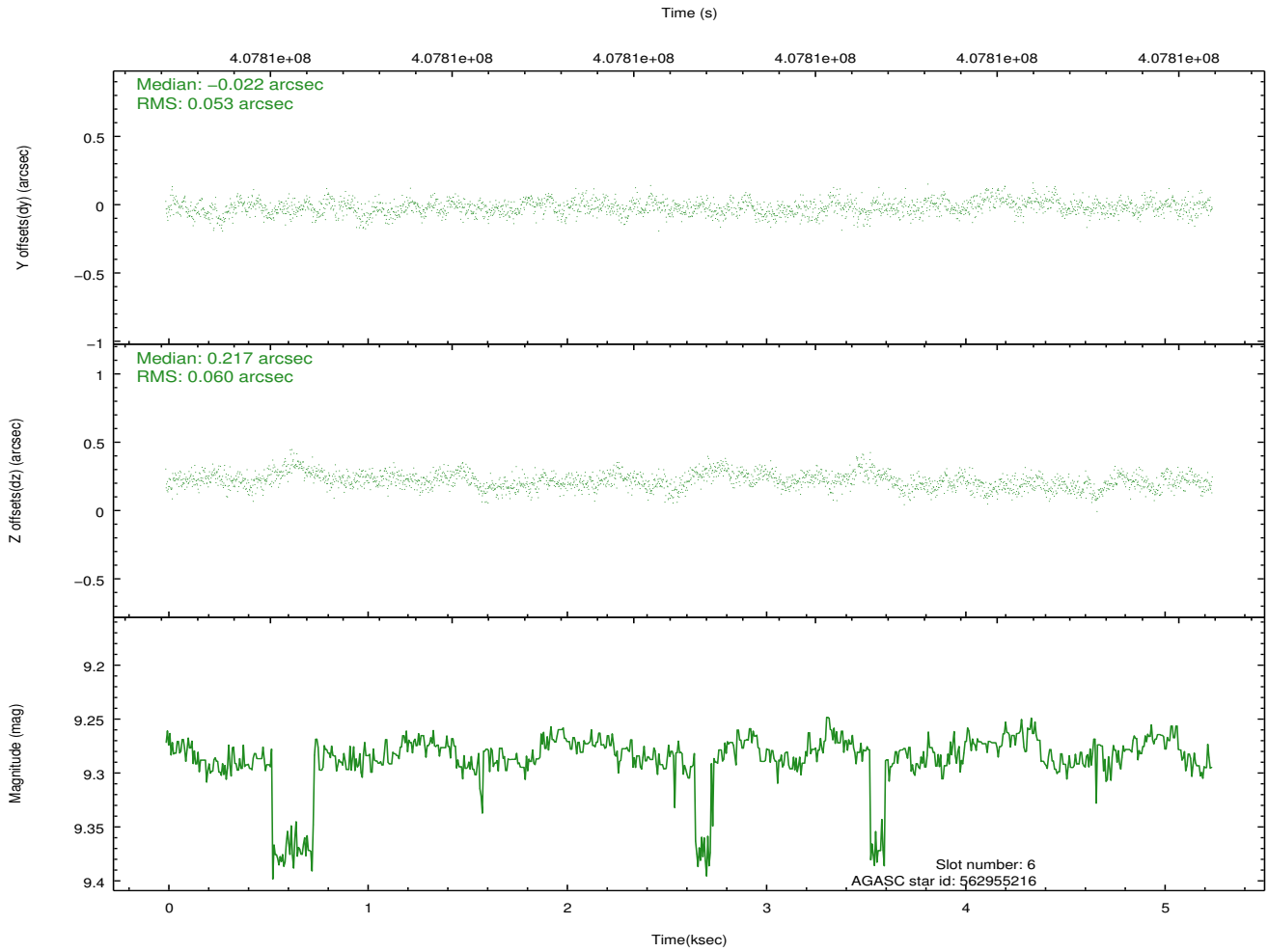
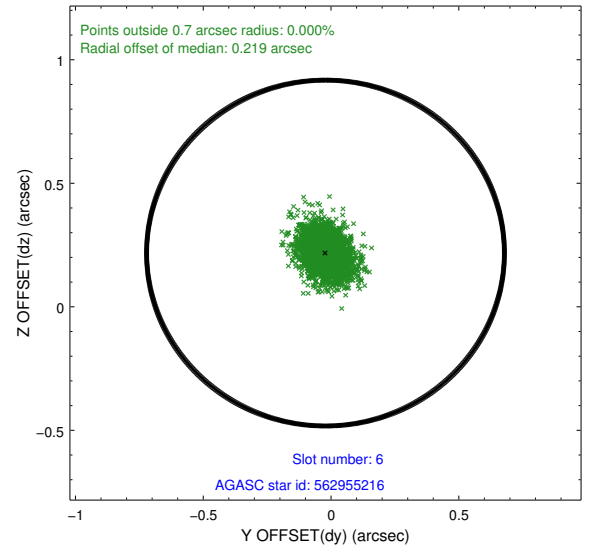
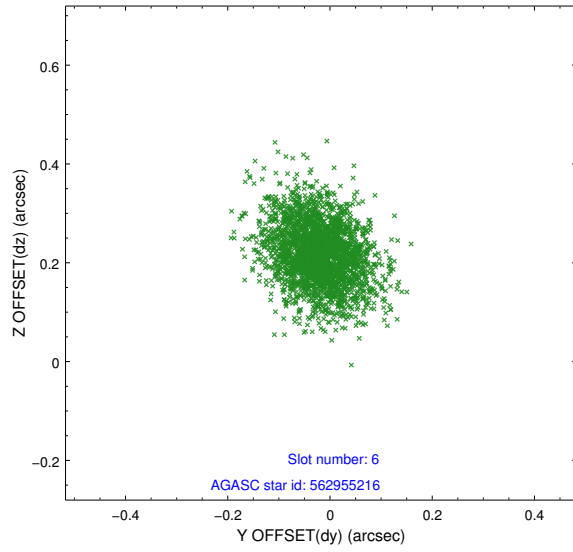
## 2.4.2 Slot 4



### 2.4.3 Slot 5

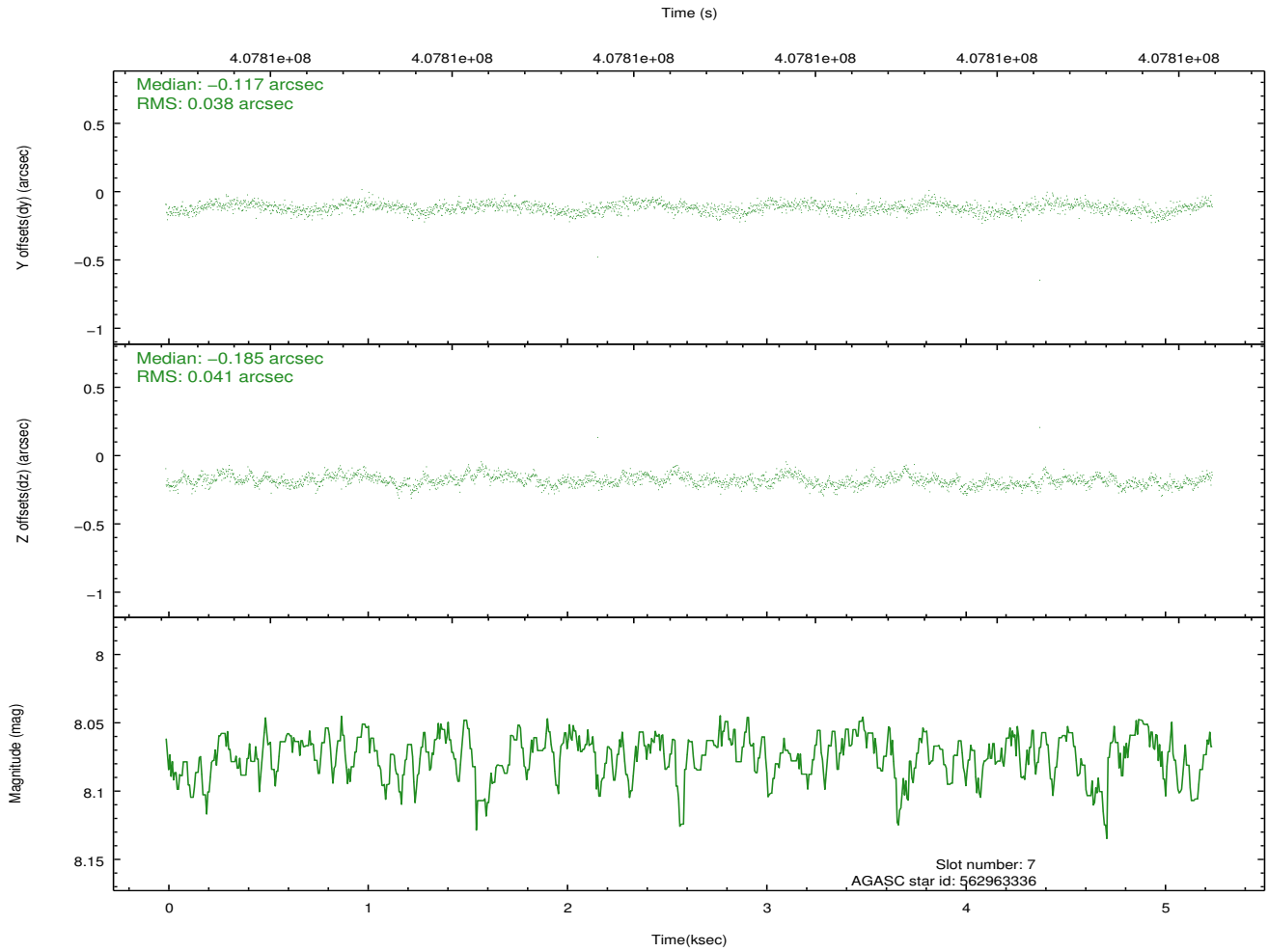
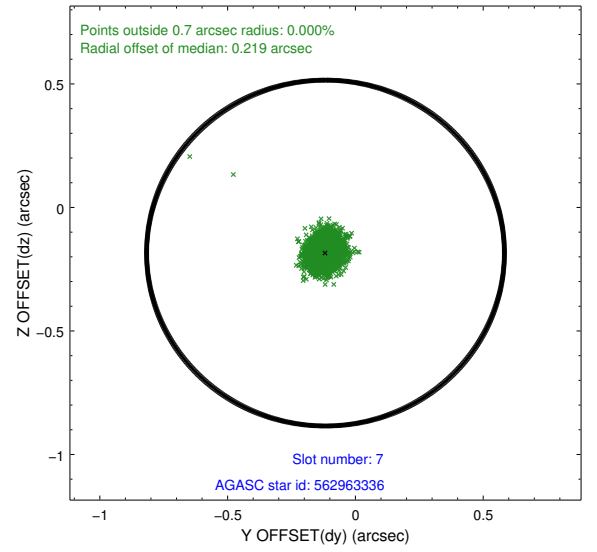
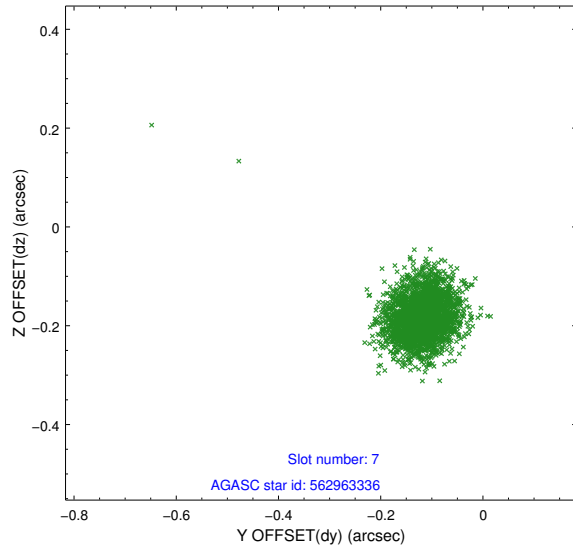


## 2.4.4 Slot 6



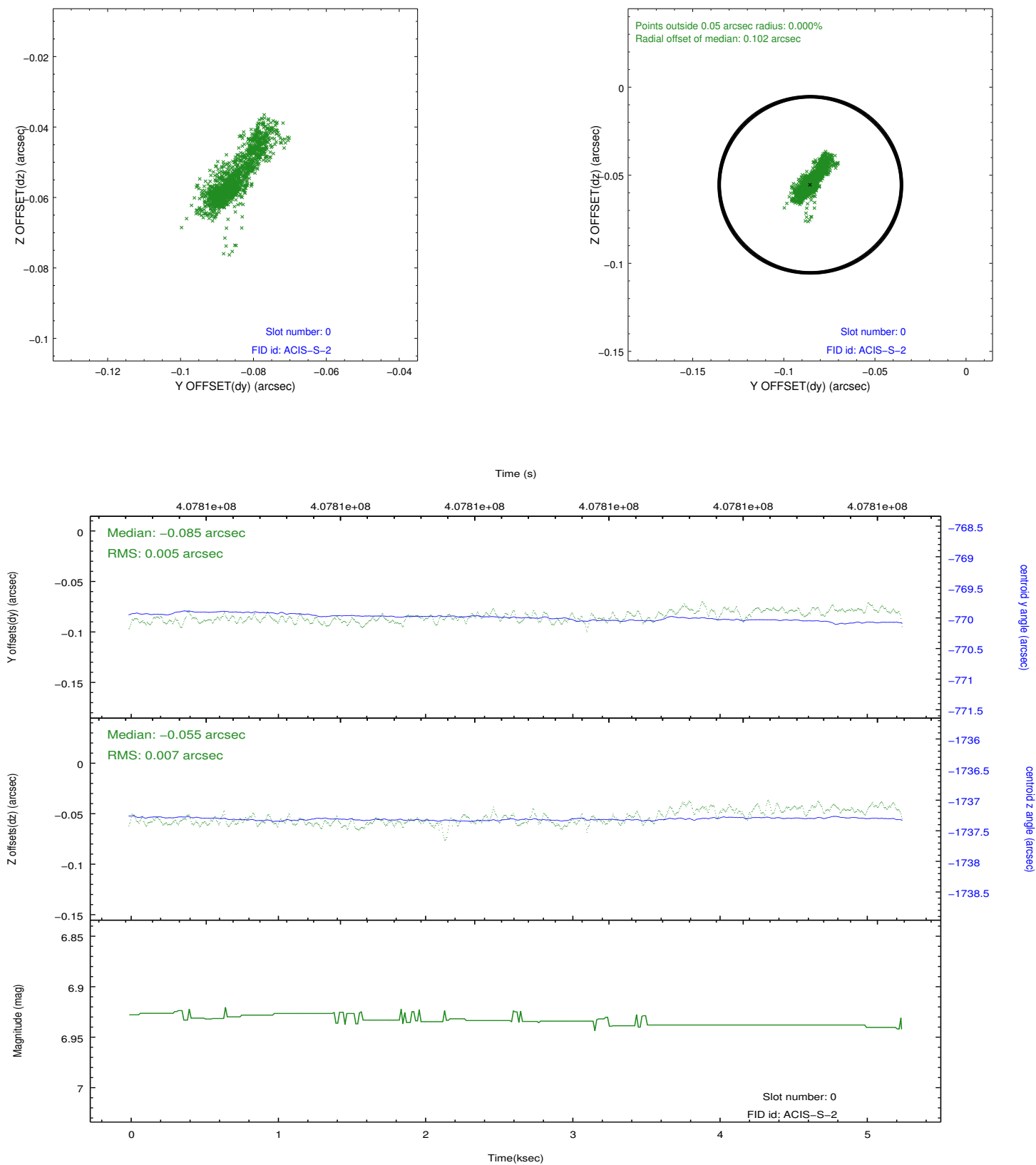


## 2.4.5 Slot 7

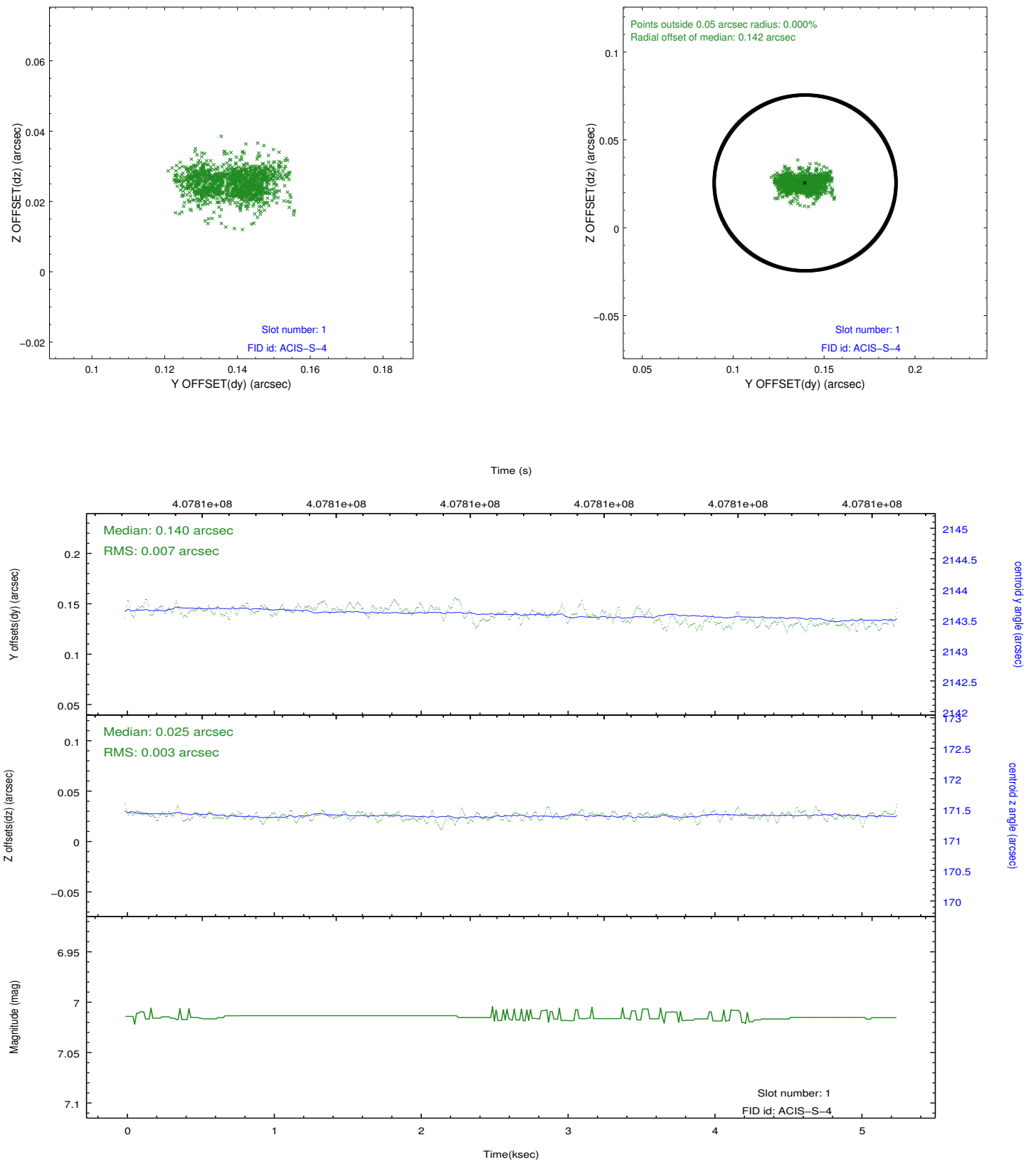


## 2.5 FID Slots

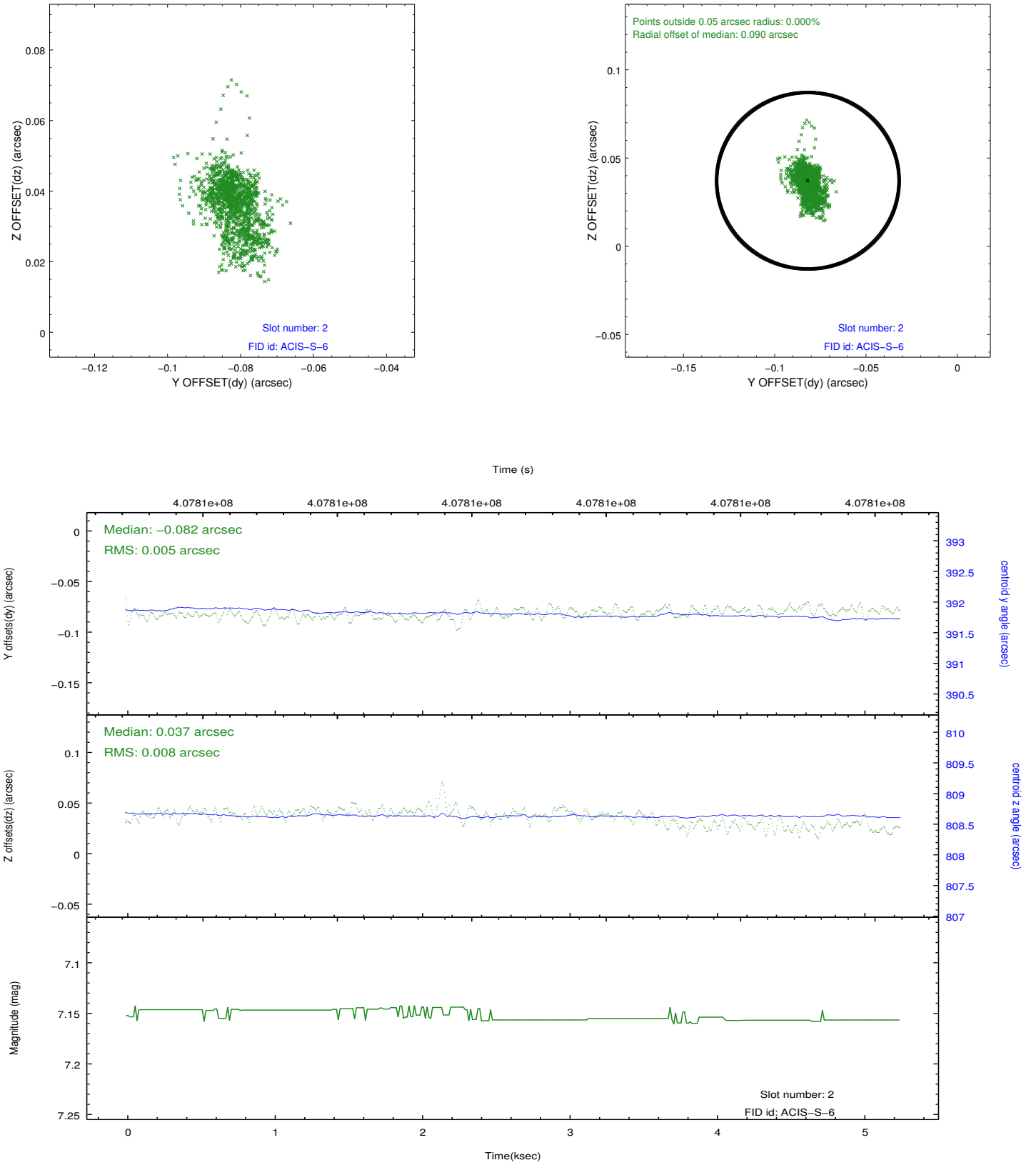
### 2.5.1 Slot 0



## 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)	2012.07.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9589318474531

### A.2 Comments