

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 1057 - L2 Version 2

Chandra X-Ray Center

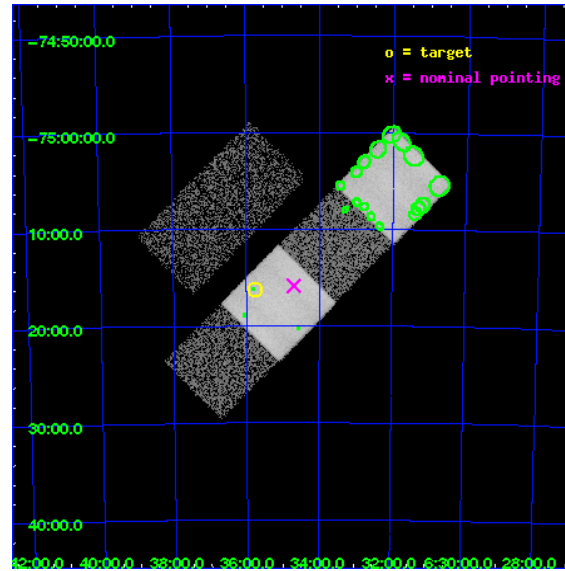
L2 Processing Date : Dec 14 2009

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1 Front

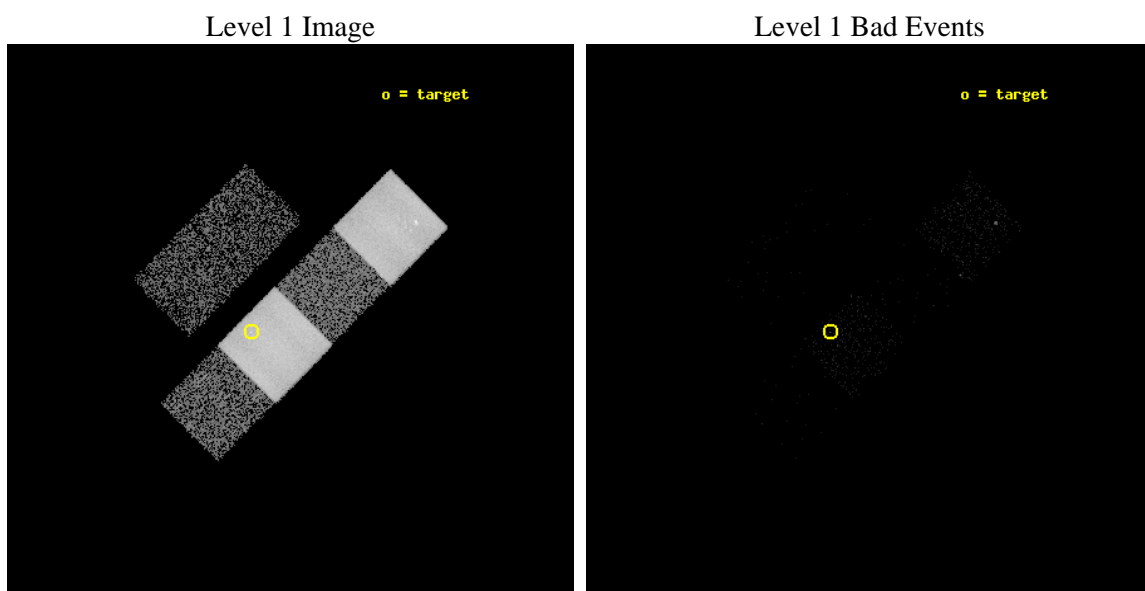
seq_num	780007	Sequence number
obs_id	1057	Observation id
title	 	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	PKS0637-752	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	98.94	Observer's specified target RA
dec_targ	-75.27	Observer's specified target Dec
ra_nom	98.67304402845	Nominal RA
dec_nom	-75.264314395822	Nominal Dec
roll_nom	134.72879512884	Nominal Roll
revision	2	Processing version of data
ontime	381.29775963724	Sum of GTIs [s]
livetime	376.46953781476	Livetime [s]
ontime2	404.89174915105	Sum of GTIs [s]
ontime3	439.75943016261	Sum of GTIs [s]
ontime5	394.30290982127	Sum of GTIs [s]
ontime6	494.93873136491	Sum of GTIs [s]
ontime7	381.29775963724	Sum of GTIs [s]
ontime8	485.17458127439	Sum of GTIs [s]
l2events	217777	Number of level 2 events



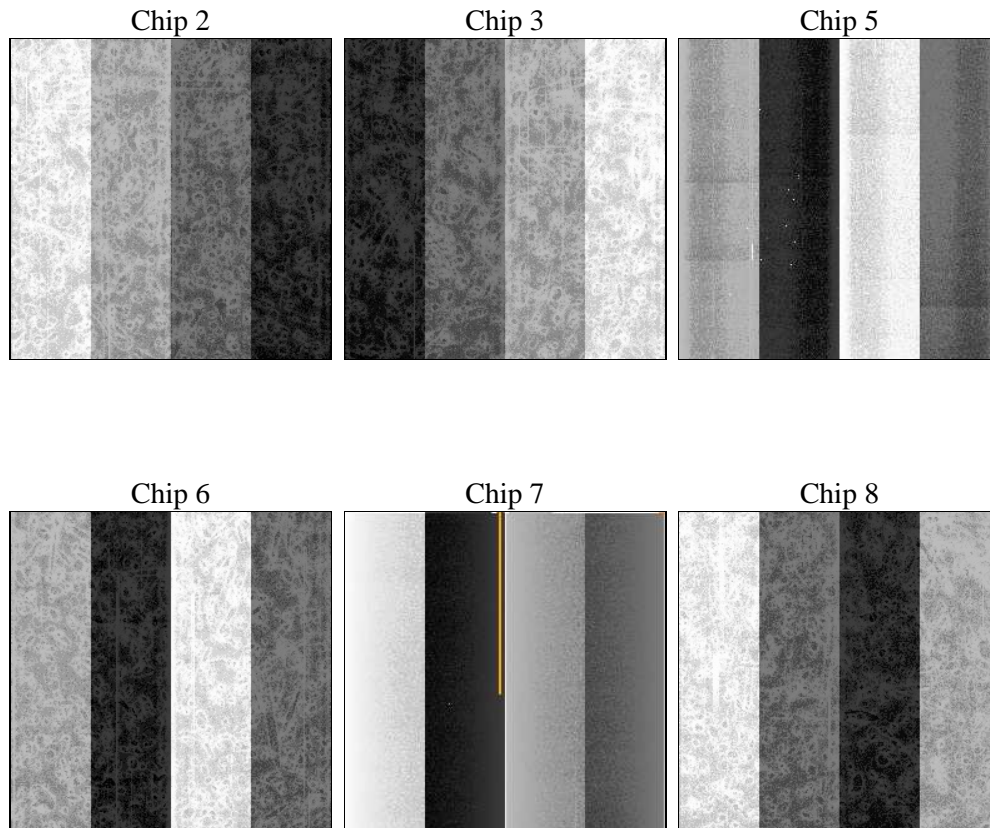
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	Scheduled observation exposure time
ascdsver	8.1.2	ASCDS version number	ontime	381.29775963724	Sum of GTIs [s]
caldsver	4.1.4	 	ontime2	404.89174915105	Sum of GTIs [s]
date	2009-12-14T07:31:34	Date and time of file creation	ontime3	439.75943016261	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	394.30290982127	Sum of GTIs [s]
			ontime6	494.93873136491	Sum of GTIs [s]
			ontime7	381.29775963724	Sum of GTIs [s]
			ontime8	485.17458127439	Sum of GTIs [s]
			l1events	227695	Number of level 1 events

2.1.4 Events

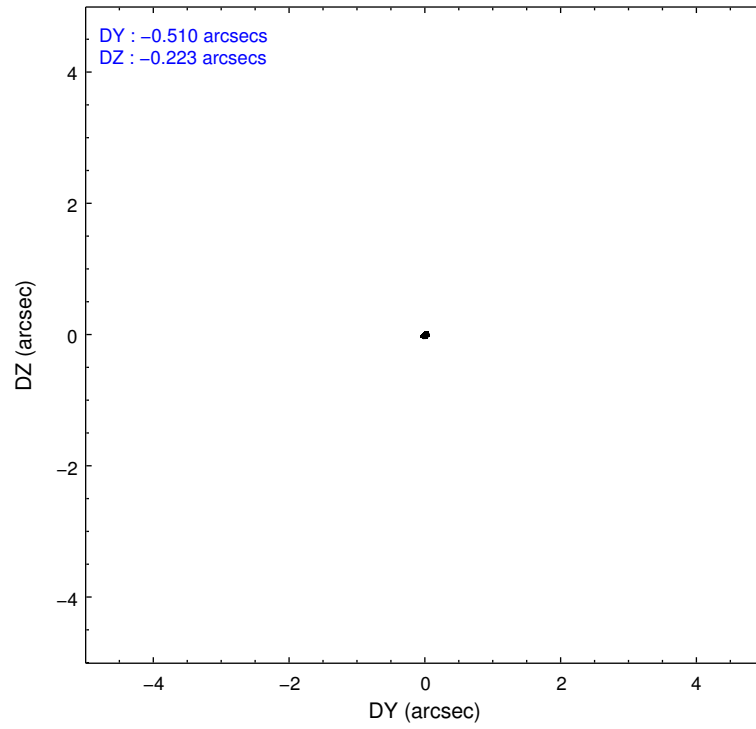
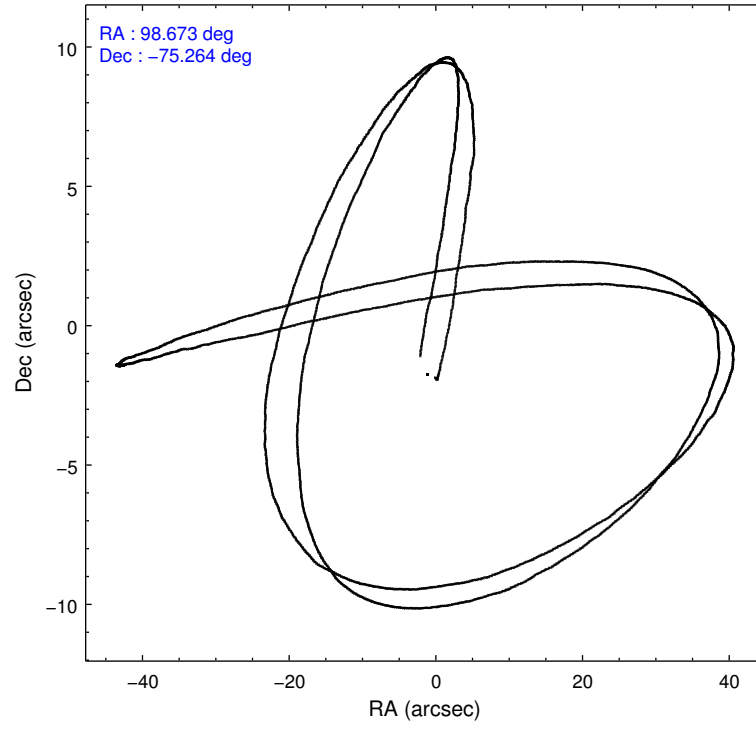
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	2819	2931	100653	5787	110533	4972
rejected events	293	350	2099	420	1877	408
rejected %	10%	11%	2%	7%	1%	8%

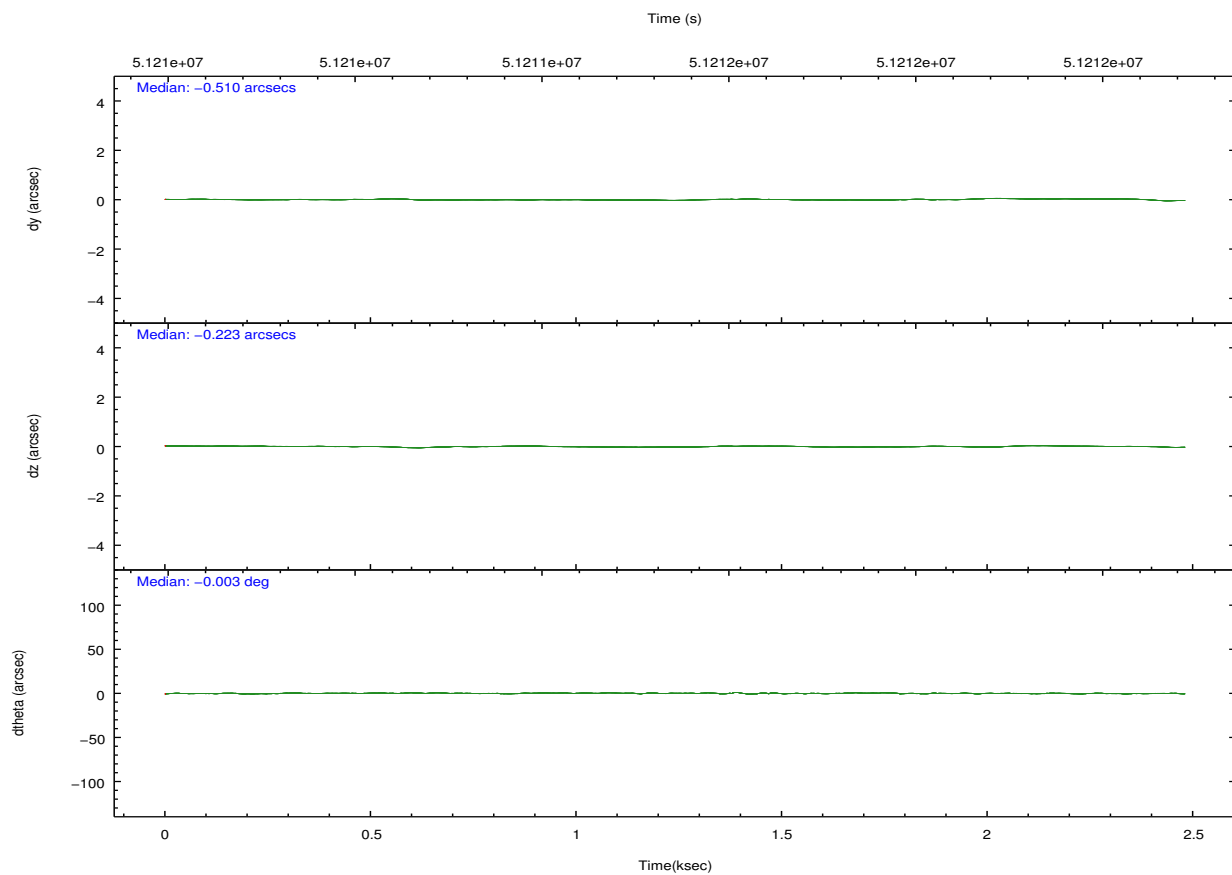
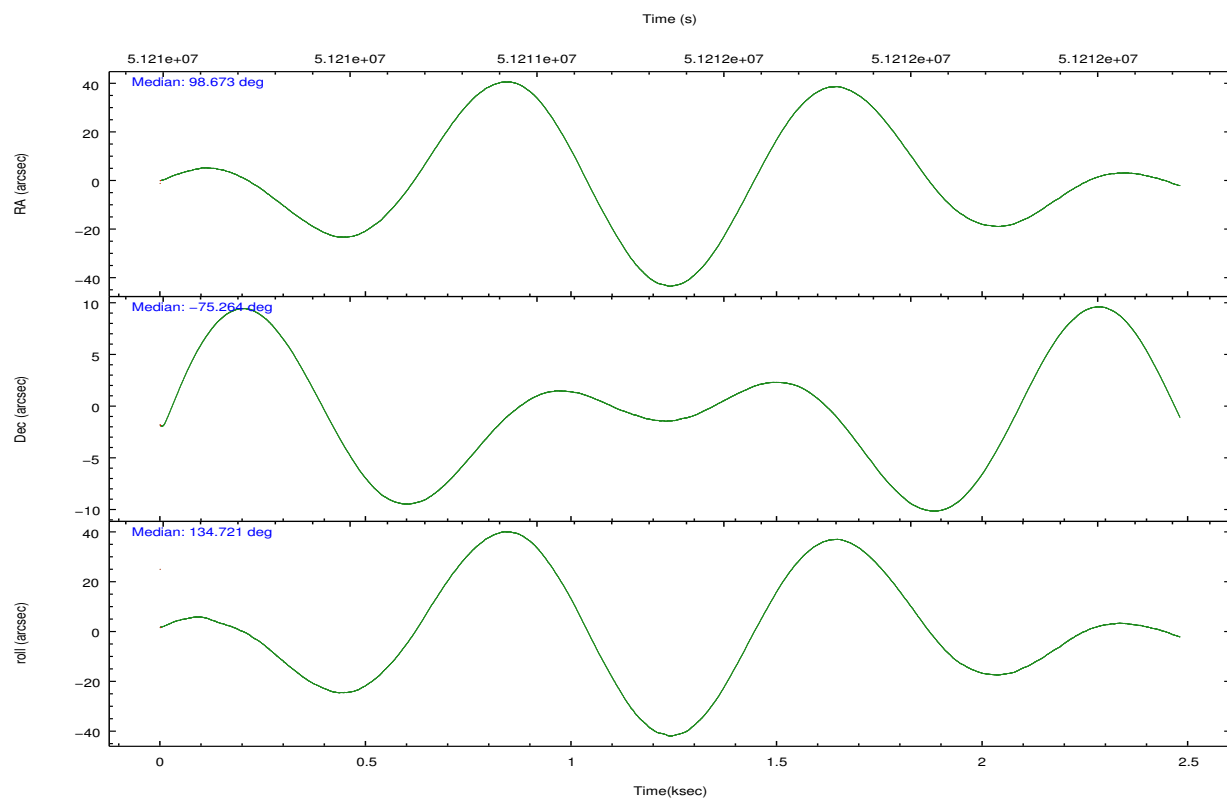
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1698	1691	13999	3995	10413	3040
	60%	57%	13%	69%	9%	61%
grade 1 events	10	10	46	19	38	17
	0%	0%	0%	0%	0%	0%
grade 2 events	378	415	15278	743	15280	691
	13%	14%	15%	12%	13%	13%
grade 3 events	93	89	10127	153	8525	177
	3%	3%	10%	2%	7%	3%
grade 4 events	82	93	8815	142	7654	173
	2%	3%	8%	2%	6%	3%
grade 5 events	267	325	1493	370	1225	374
	9%	11%	1%	6%	1%	7%
grade 6 events	291	308	50841	365	67378	500
	10%	10%	50%	6%	60%	10%
grade 7 events	0	0	54	0	20	0
	0%	0%	0%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Observation mode	POINTING	POINTING	Number of optional ACIS chips dropped	0	0
Pointing RA	98.777752	98.67304402845045	On-chip summing requested	N	N
Pointing Dec	-75.272405	-75.26431439582234	Subarray requested	NONE	NONE
Pointing Roll	134.673446	134.7287951288388	Alternating exposures requested	N	N
SIM focus pos (mm)	-1.180069	-1.346558362777969	Primary exposure time	0.000000	3.2
SIM defocus (mm)	-0.495802	-0.6622909014780725			
SIM translation stage pos (mm)	-190.132523	-190.1325231039672			
SIM translation stage offset (mm)	0	5.209593894051068e-07			
Observation start time	51210607.184000	51209944.156273			
Observation start date	1999-08-16T17:09:03	1999-08-16T16:59:04			
Observation end time	51212607.184000	51212723.956371			
Observation end date	1999-08-16T17:42:23	1999-08-16T17:45:23			
Read mode	TIMED	TIMED			

2.3 Aspect



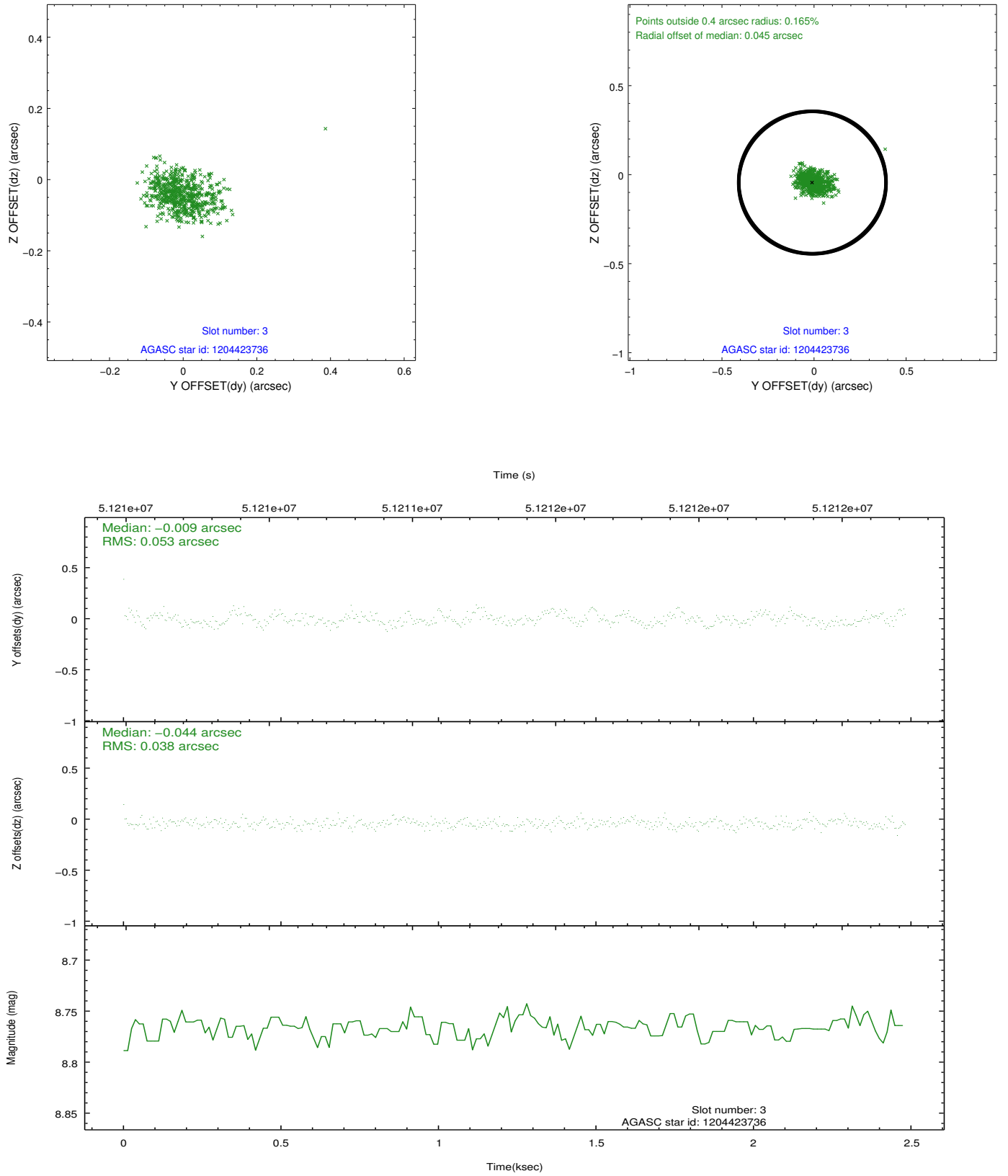


Slot Statistics

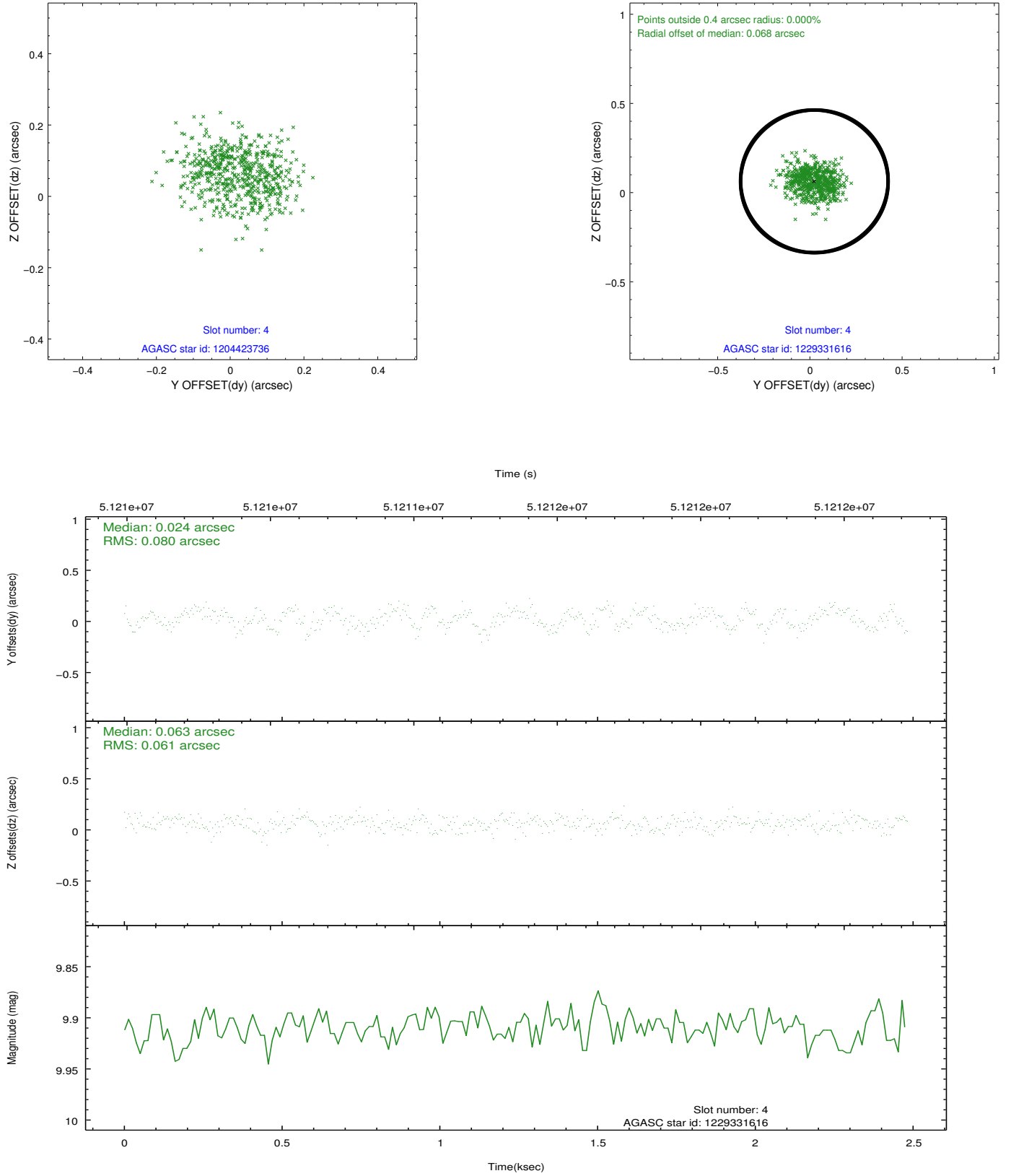
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.13	605	-0.024	-0.037	0.007	0.012	0.000000	0.000000	-752.05	-1720.80
1	FID	ACIS-S-4	7.21	606	0.155	0.022	0.006	0.012	0.000000	0.000000	2160.08	184.87
2	FID	ACIS-S-5	7.25	606	-0.161	0.024	0.007	0.012	0.000000	0.000000	-1801.55	181.60
3	GUIDE	1204423736	8.77	606	-0.009	-0.044	0.068	0.113	99.272017	-74.796122	888.00	-1534.35
4	GUIDE	1229331616	9.91	605	0.024	0.063	0.108	0.169	96.182998	-75.347362	1431.29	1905.17
5	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	GUIDE	1229459616	9.59	604	-0.017	-0.018	0.074	0.115	100.451938	-75.232223	-992.11	-1174.26

2.4 Star Slots

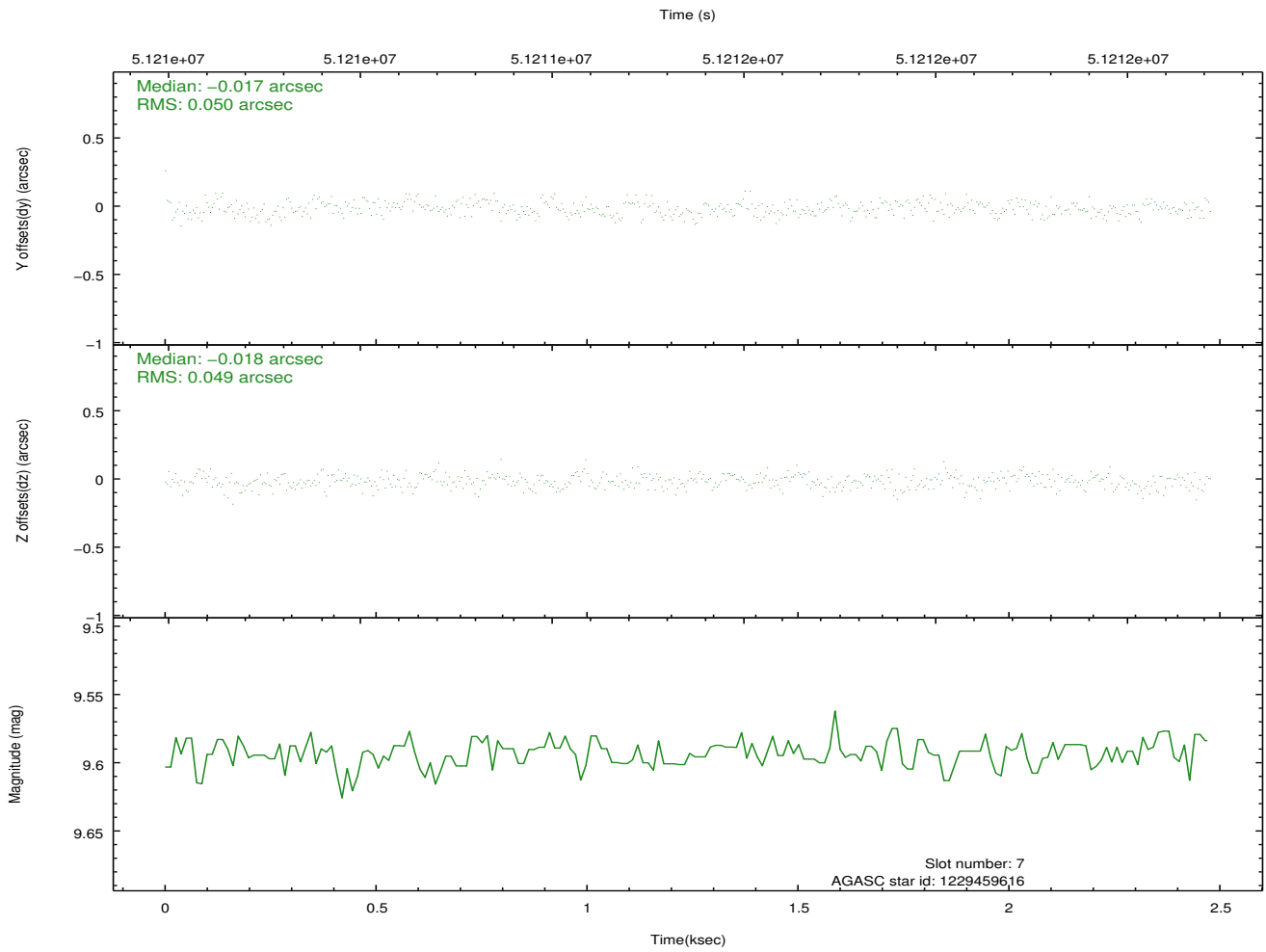
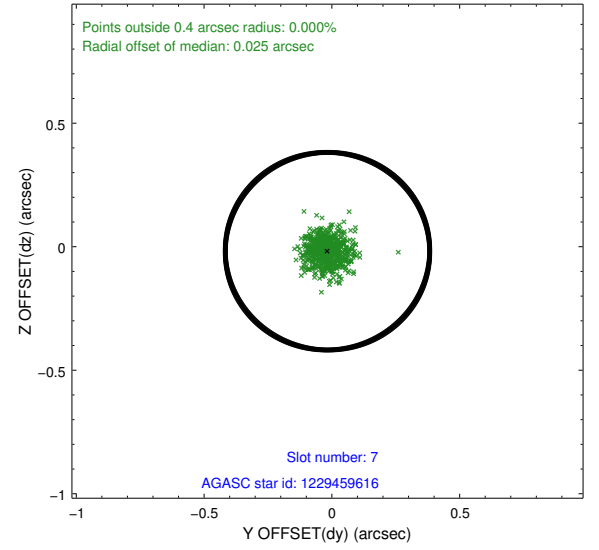
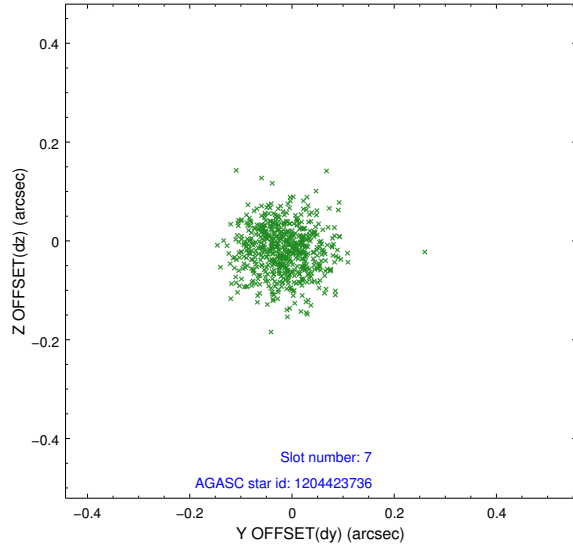
2.4.1 Slot 3



2.4.2 Slot 4

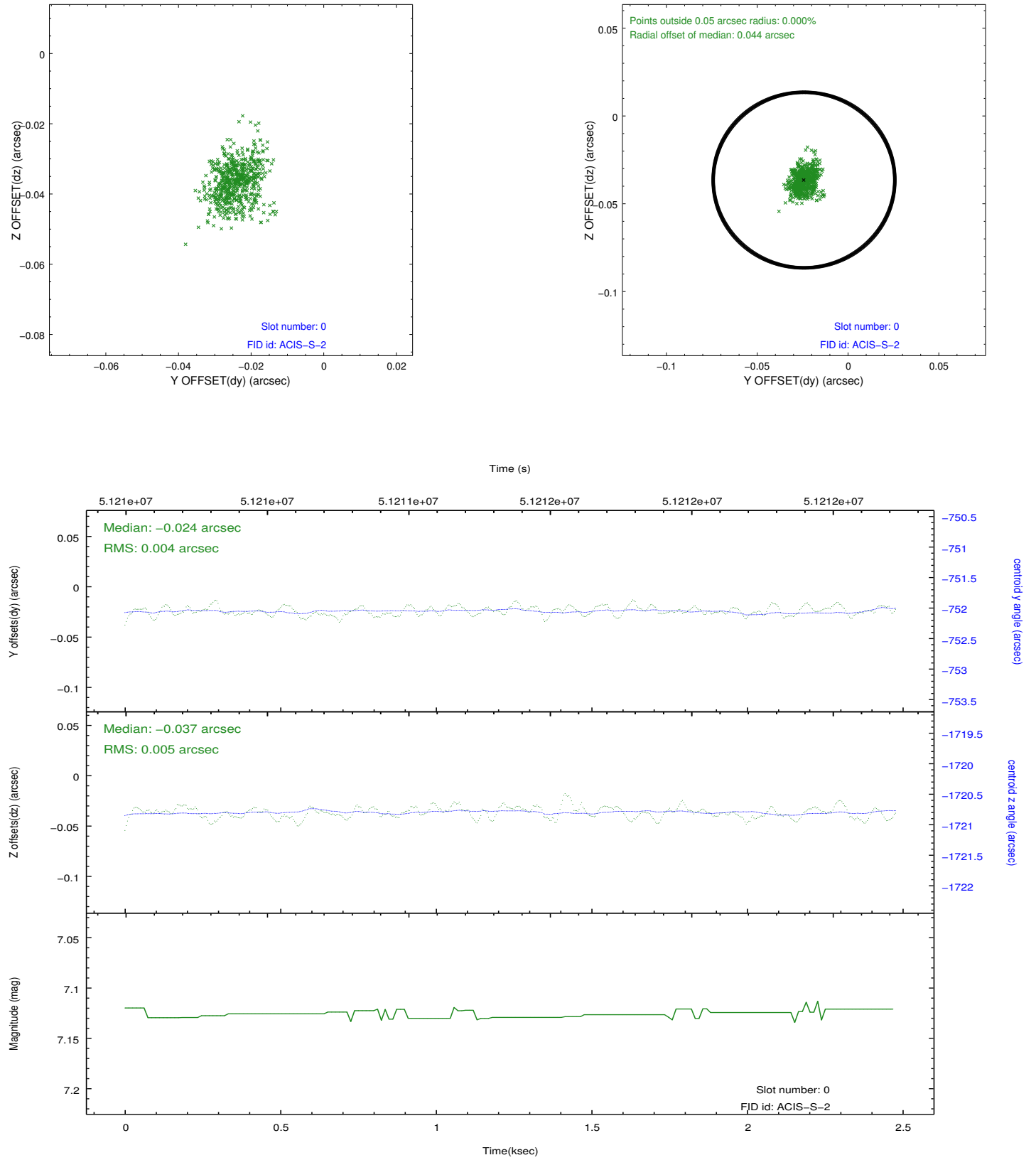


2.4.3 Slot 7

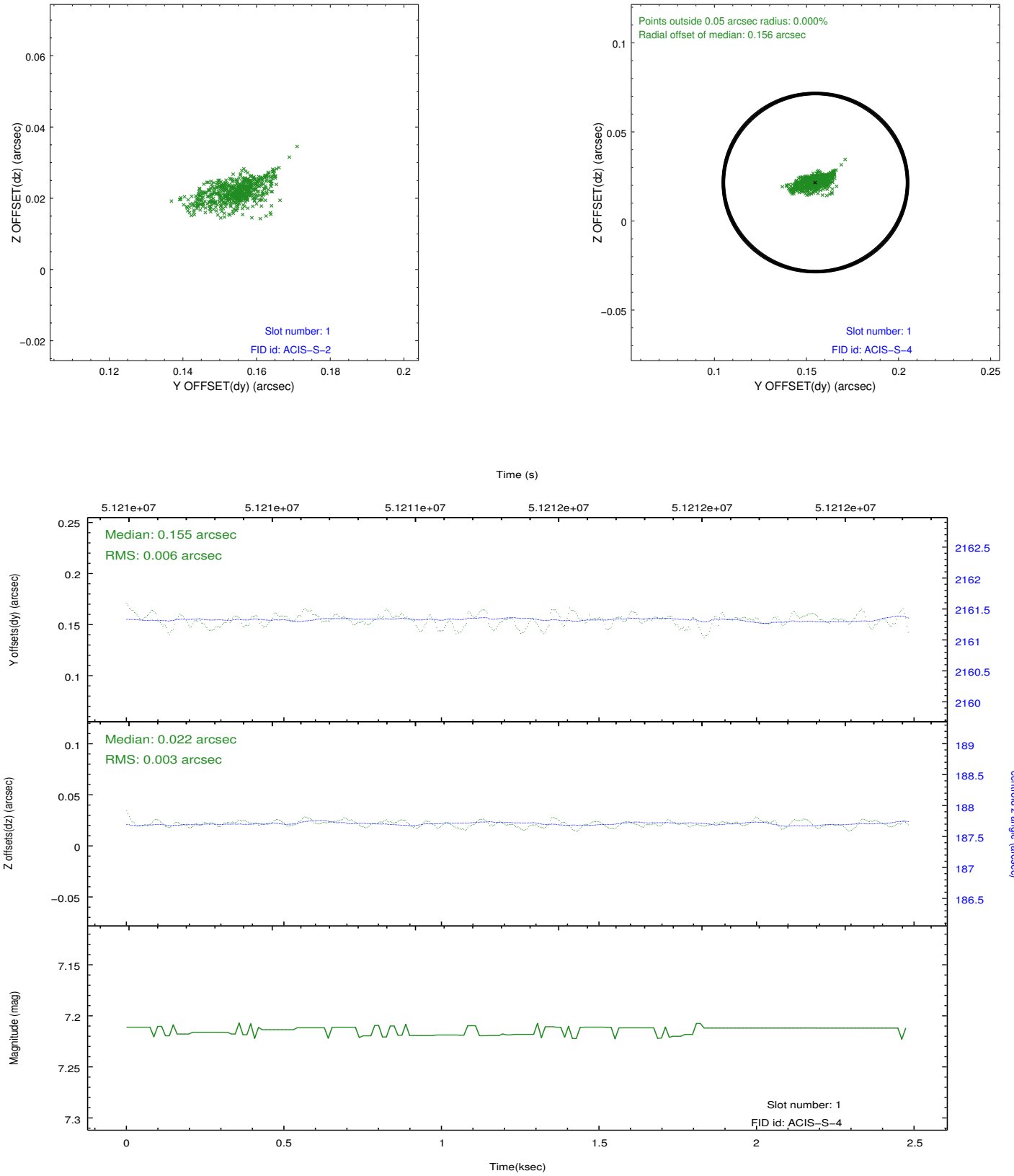


2.5 FID Slots

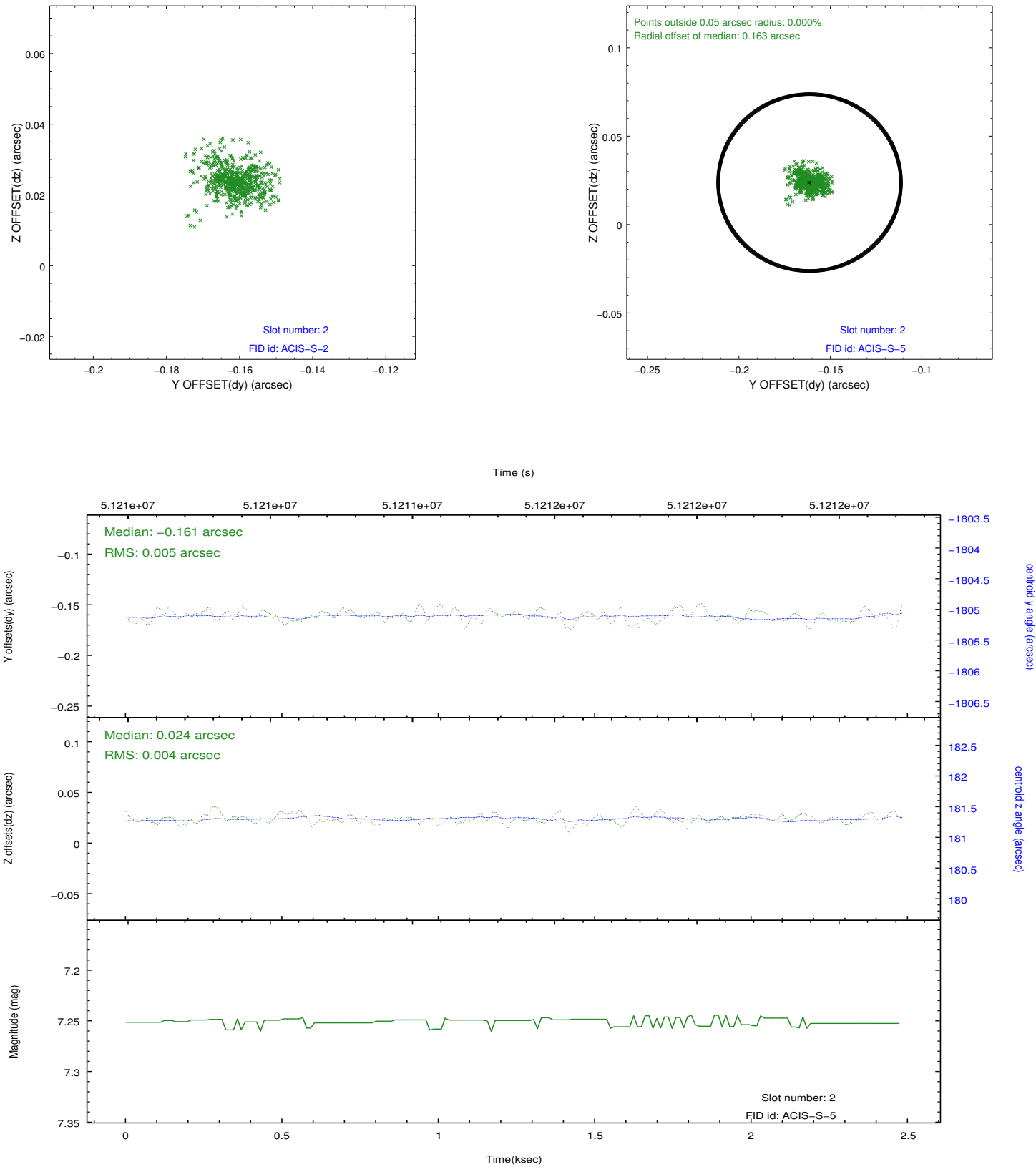
2.5.1 Slot 0



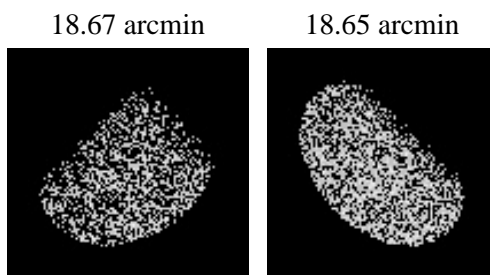
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.05.19
V&V Edition	2
V&V Disposition and Status	OK
V&V Charge Time	0.37

A.2 Comments

Crude Optical Axis Determination ACIS observation, at $y_{\text{offset}} = 2.8'$, $z_{\text{offset}} = 2.8$. Target very off-axis. Optical axis determination with PKS0637-732.

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Charge time for this ObsId remains at previous value of 0.37 ksec, although with the current processing the charge time would have been 0.38 ksec.

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Guide stars in slots 5 and 6 were not acquired.

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The focal plane temperature is approximately -100 C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.