

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18208 - L2 Version 2
Chandra X-Ray Center

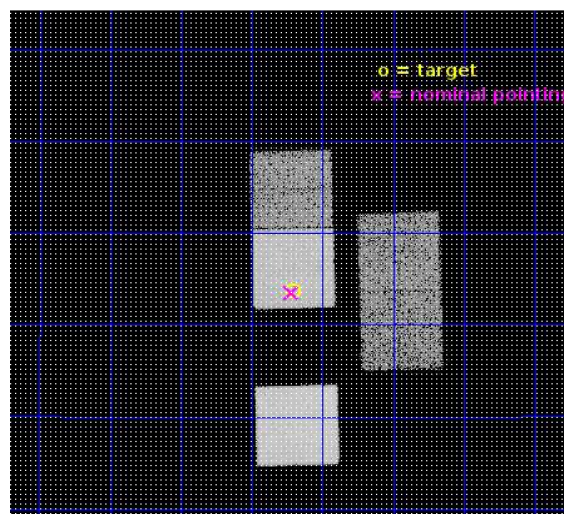
L2 Processing Date : Sep 13 2016

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1 Front

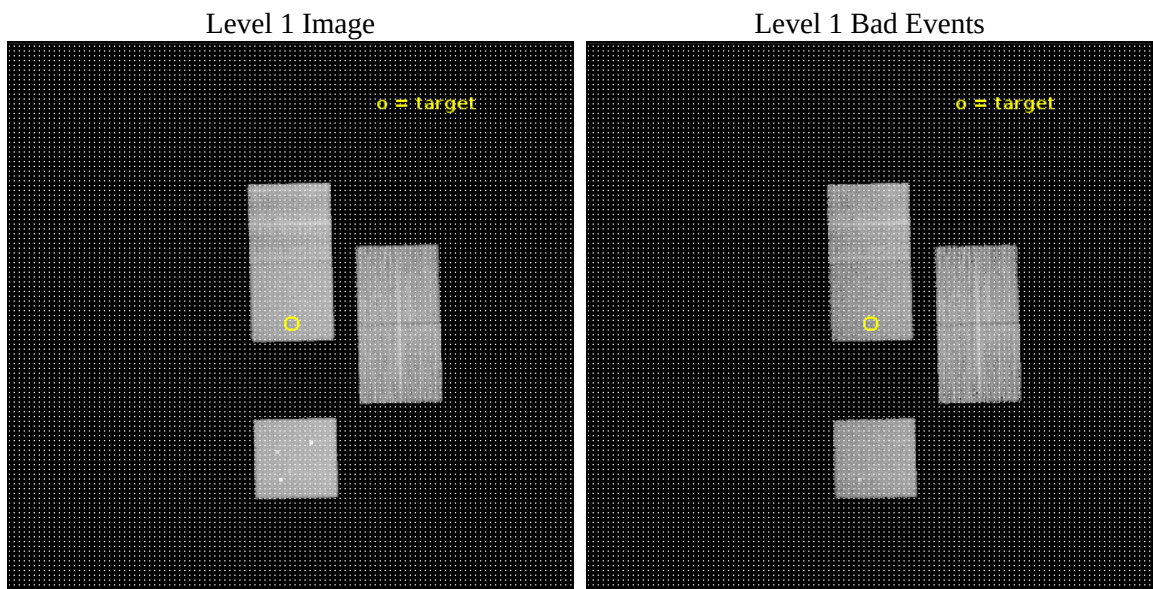
seq_num	703269	Sequence number
obs_id	18208	Observation id
title	Discovery of extreme quasar wind candidates at high redshift	Propo
observer	Nadia Zakamska	Principal investigator
object	SDSSJ1535+0903	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	233.926667	Observer's specified target RA [deg]
dec_targ	9.061417	Observer's specified target Dec [deg]
ra_nom	233.93001292485	Nominal RA [deg]
dec_nom	9.058766485574	Nominal Dec [deg]
roll_nom	268.60009752632	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15059.800115943	Sum of GTIs [s]
livetime	14863.032740565	Livetime [s]
ontime2	15059.800115943	Sum of GTIs [s]
ontime3	15059.800115943	Sum of GTIs [s]
ontime5	15059.800115943	Sum of GTIs [s]
ontime7	15059.800115943	Sum of GTIs [s]
ontime8	15059.800115943	Sum of GTIs [s]
l2events	152721	Number of level 2 events



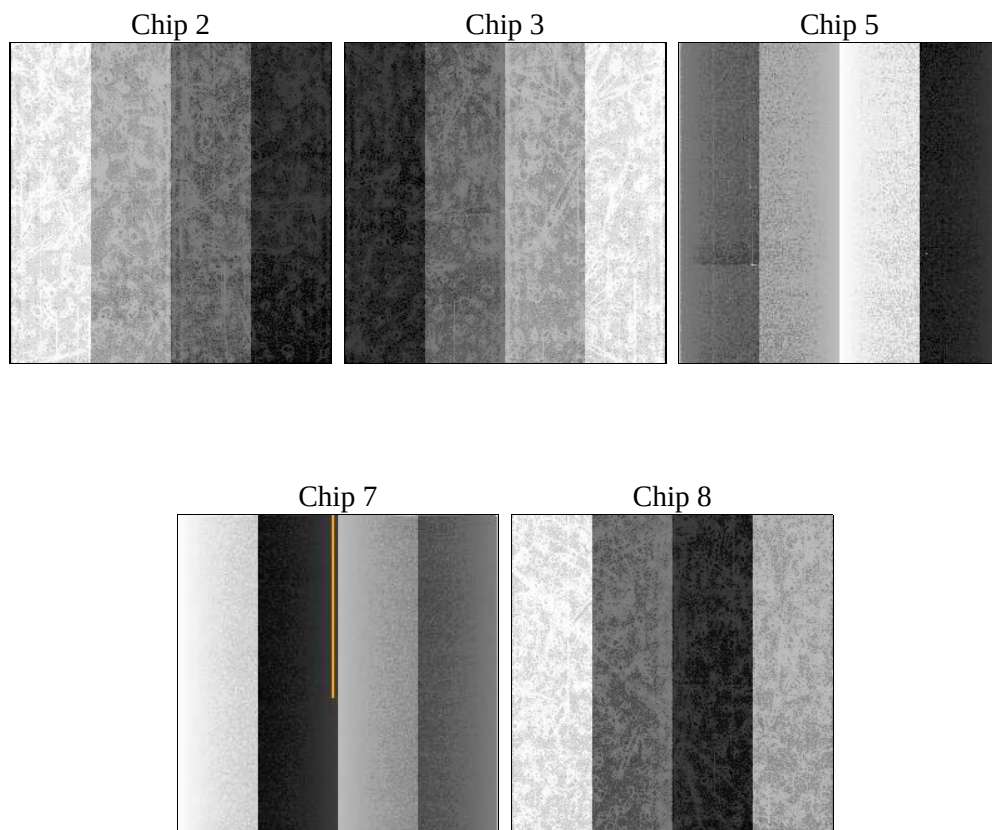
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	15059.800115943	Sum of GTIs [s]
caldbver	4.7.2	 	ontime2	15059.800115943	Sum of GTIs [s]
date	2016-09-14T02:28:31	Date and time of file creation	ontime3	15059.800115943	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	15059.800115943	Sum of GTIs [s]
			ontime7	15059.800115943	Sum of GTIs [s]
			ontime8	15059.800115943	Sum of GTIs [s]
			l1events	594545	Number of level 1 events

2.1.4 Events

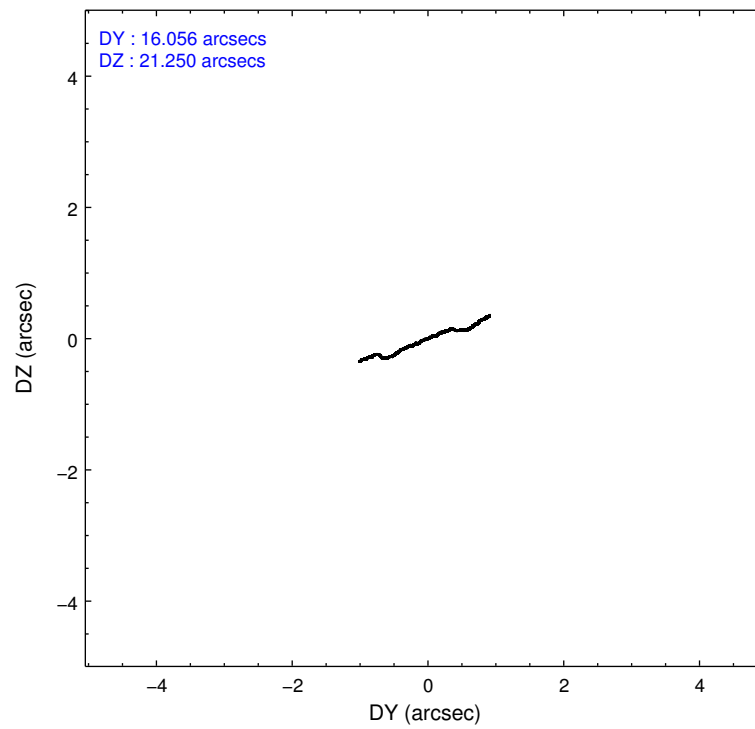
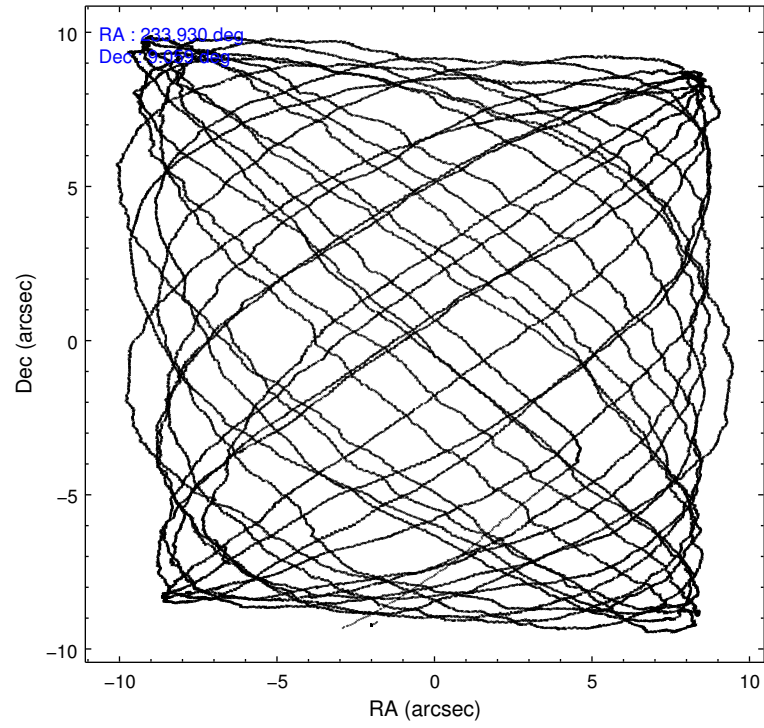
	ccd 2	ccd 3	ccd 5	ccd 7	ccd 8
level 1 events	91162	91320	158619	123963	129481
rejected events	80648	80808	79703	69596	94628
rejected %	88%	88%	50%	56%	73%

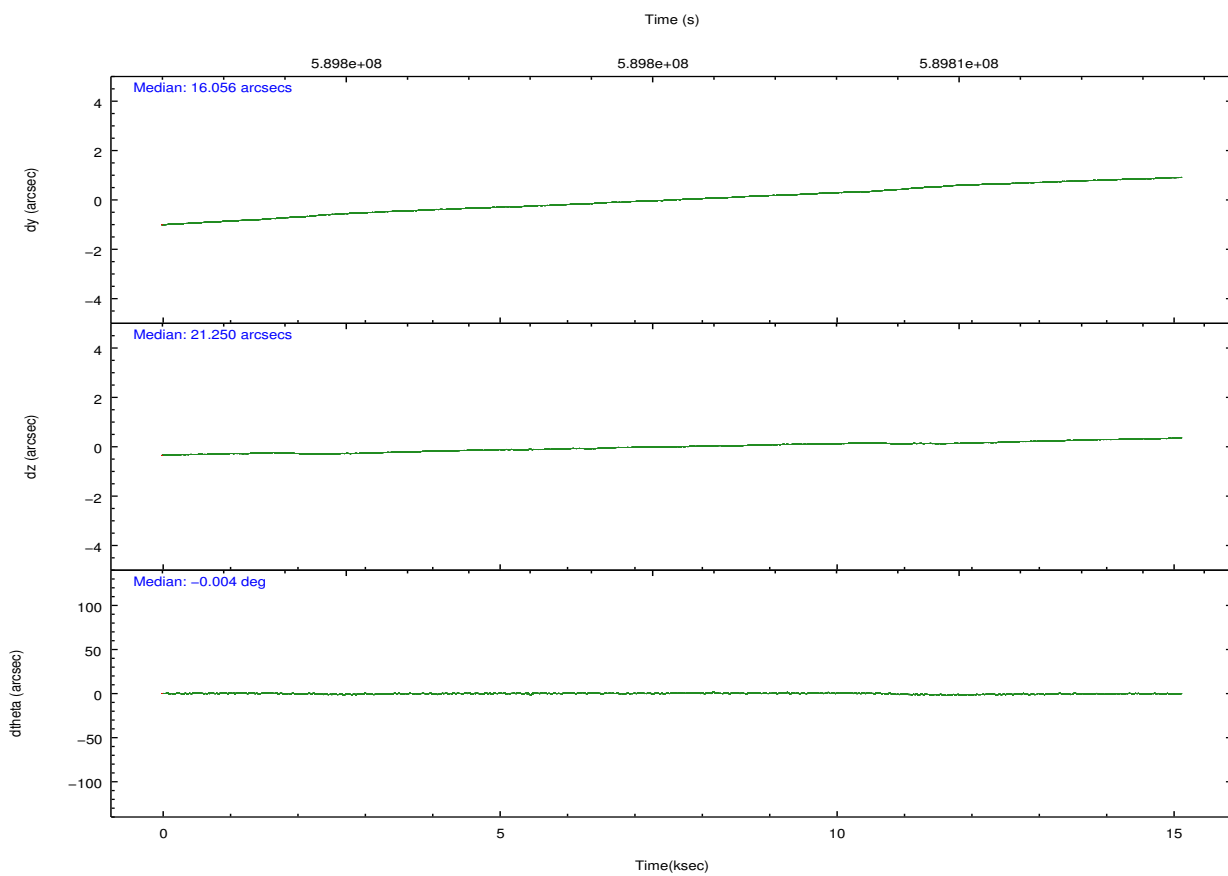
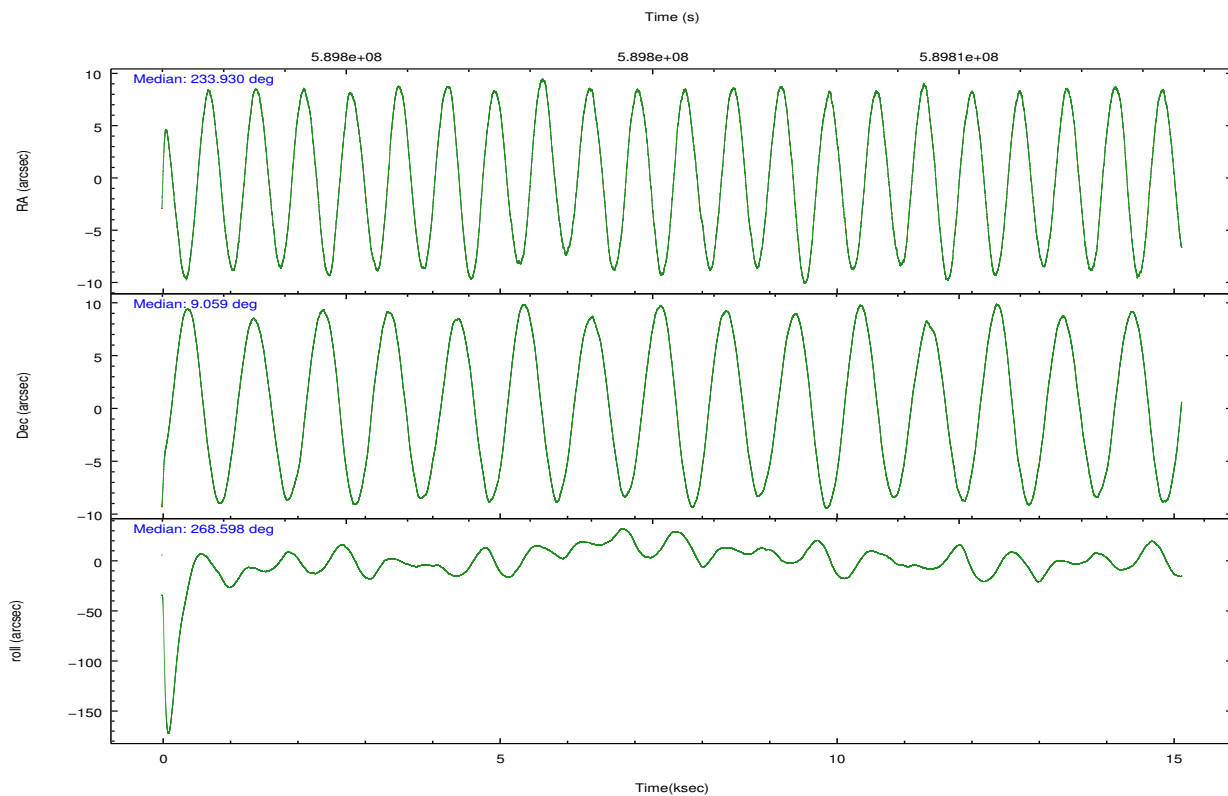
	ccd 2	ccd 3	ccd 5	ccd 7	ccd 8
grade 0 events	3789	3913	10411	4952	10162
	4%	4%	6%	3%	7%
grade 1 events	52	64	1113	172	124
	0%	0%	0%	0%	0%
grade 2 events	2663	2319	23456	11444	8728
	2%	2%	14%	9%	6%
grade 3 events	981	969	2460	4501	3385
	1%	1%	1%	3%	2%
grade 4 events	1059	1180	2411	4448	3199
	1%	1%	1%	3%	2%
grade 5 events	3841	4612	11085	12486	7079
	4%	5%	6%	10%	5%
grade 6 events	2029	2131	40198	29028	9383
	2%	2%	25%	23%	7%
grade 7 events	76748	76132	67485	56932	87421
	84%	83%	42%	45%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23578	ACIS-23578	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	233.916387	233.9300129248528	CCD I2 on	O2	Y
[deg] Pointing Dec	9.082700	9.058766485574045	CCD I3 on	O1	Y
[deg] Pointing Roll	268.445472	268.6000975263232	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	N	N
[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	O4	Y
[s] Observation start time (MET)	589797873.184000	589796710.38437	CCD S5 on	N	N
Observation start date	2016-09-09T08:43:25	2016-09-09T08:25:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	589812873.184000	589813870.42286	On-chip summing requested	N	N
Observation end date	2016-09-09T12:53:25	2016-09-09T13:11:10	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



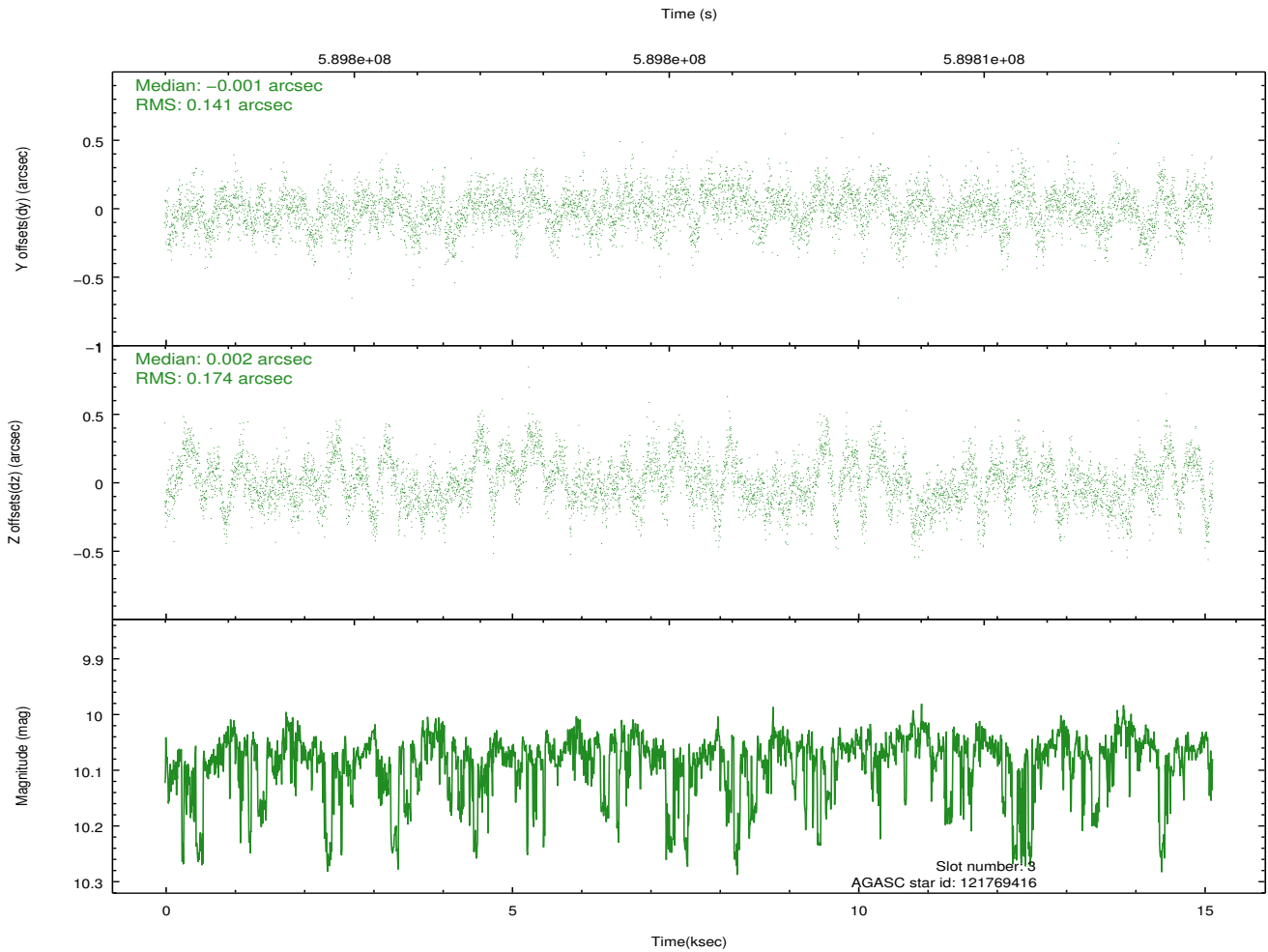
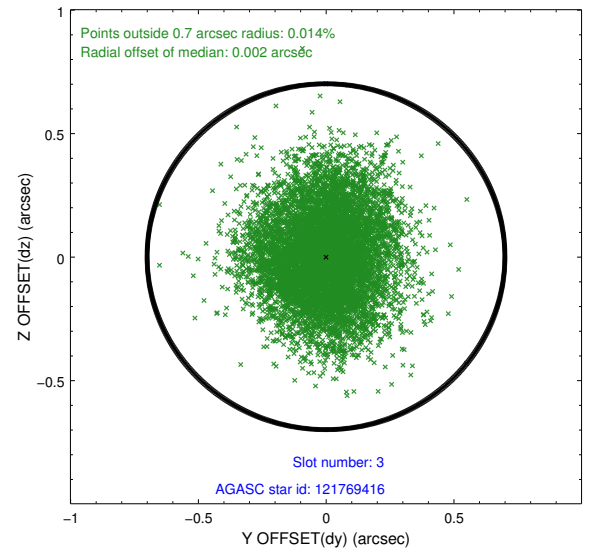
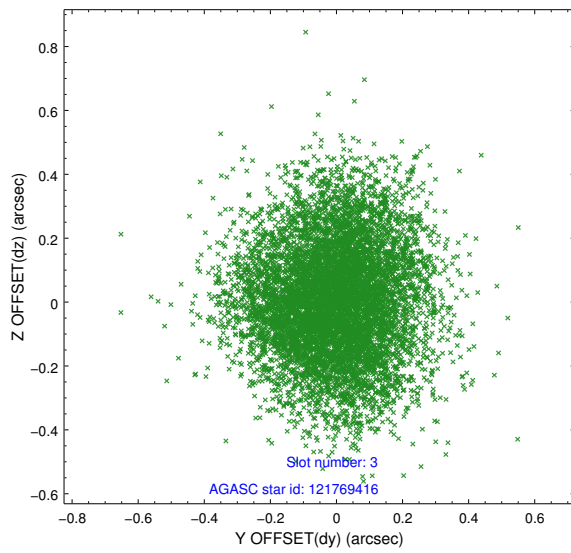


Slot Statistics

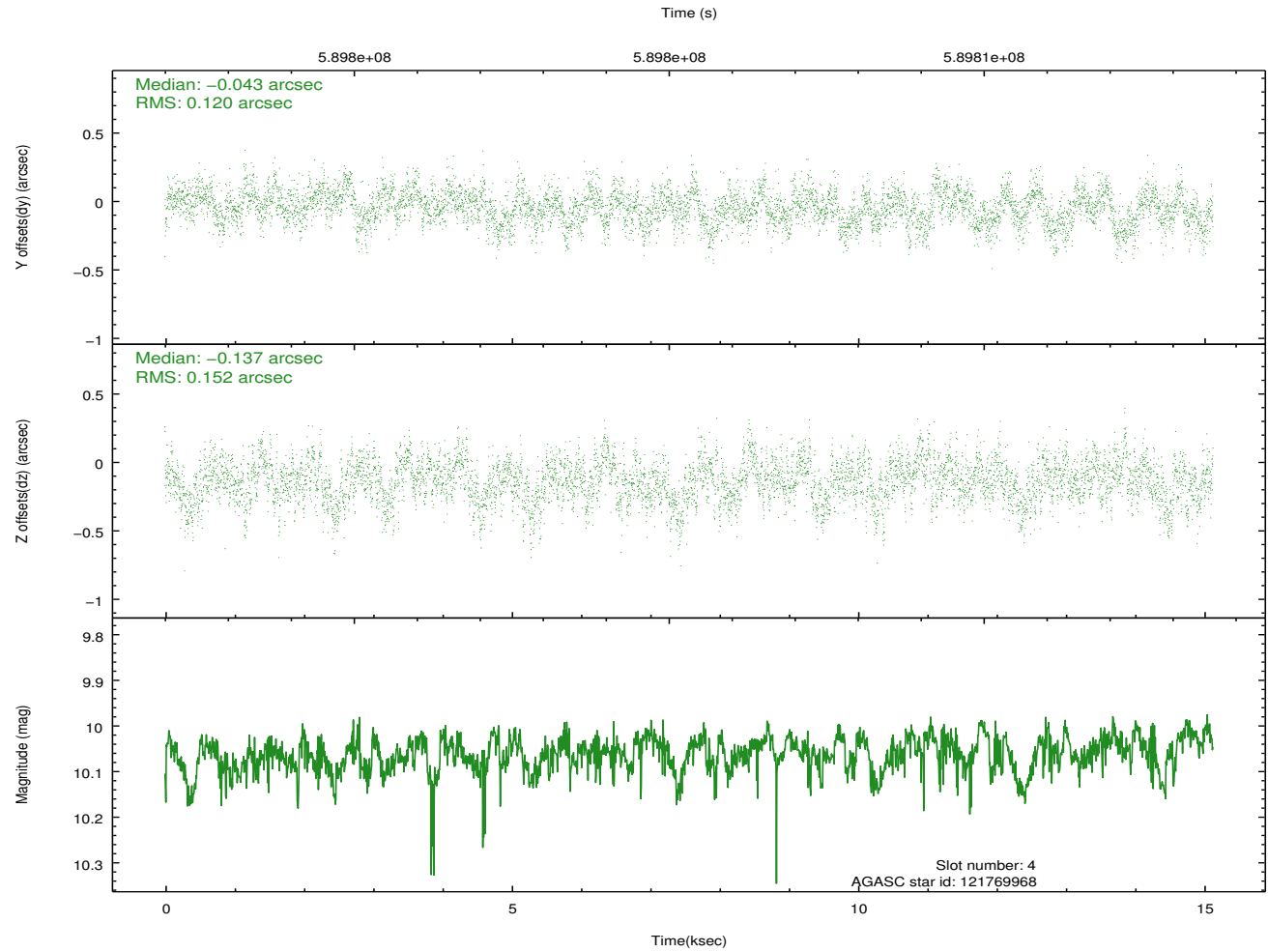
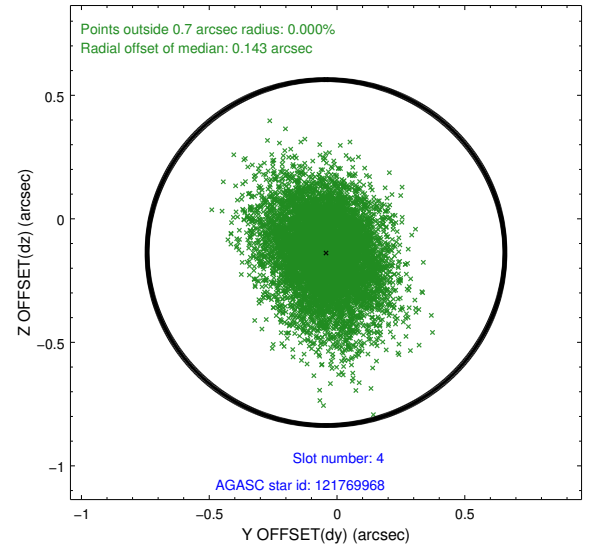
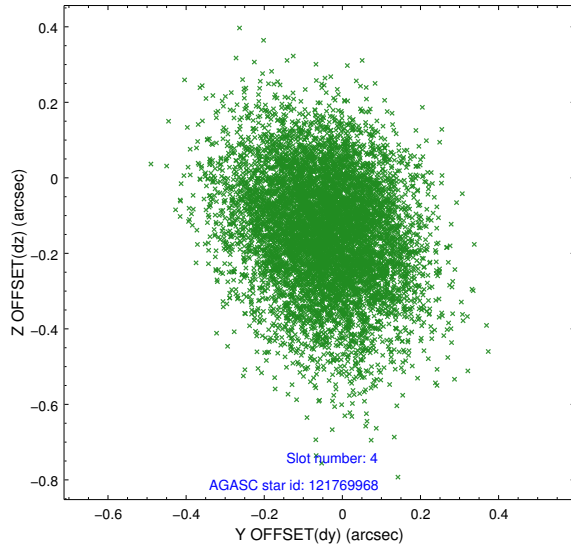
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	3691	-0.185	-0.059	0.017	0.025	0.000000	0.000000	-769.24	-1742.85
1	FID		ACIS-S-4	7.04	3690	0.362	0.105	0.011	0.027	0.000000	0.000000	2144.44	165.50
2	FID		ACIS-S-5	7.04	3691	-0.210	-0.038	0.016	0.024	0.000000	0.000000	-1821.73	159.35
3	GUIDE	used	121769416	10.07	7365	-0.001	0.002	0.240	0.383	233.694391	8.451135	2294.28	-728.61
4	GUIDE	used	121769968	10.06	7368	-0.043	-0.137	0.204	0.340	234.154382	9.197655	-436.42	833.84
5	GUIDE	used	122163800	9.21	7376	0.051	0.132	0.164	0.280	233.602660	9.442936	-1266.53	-1148.64
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

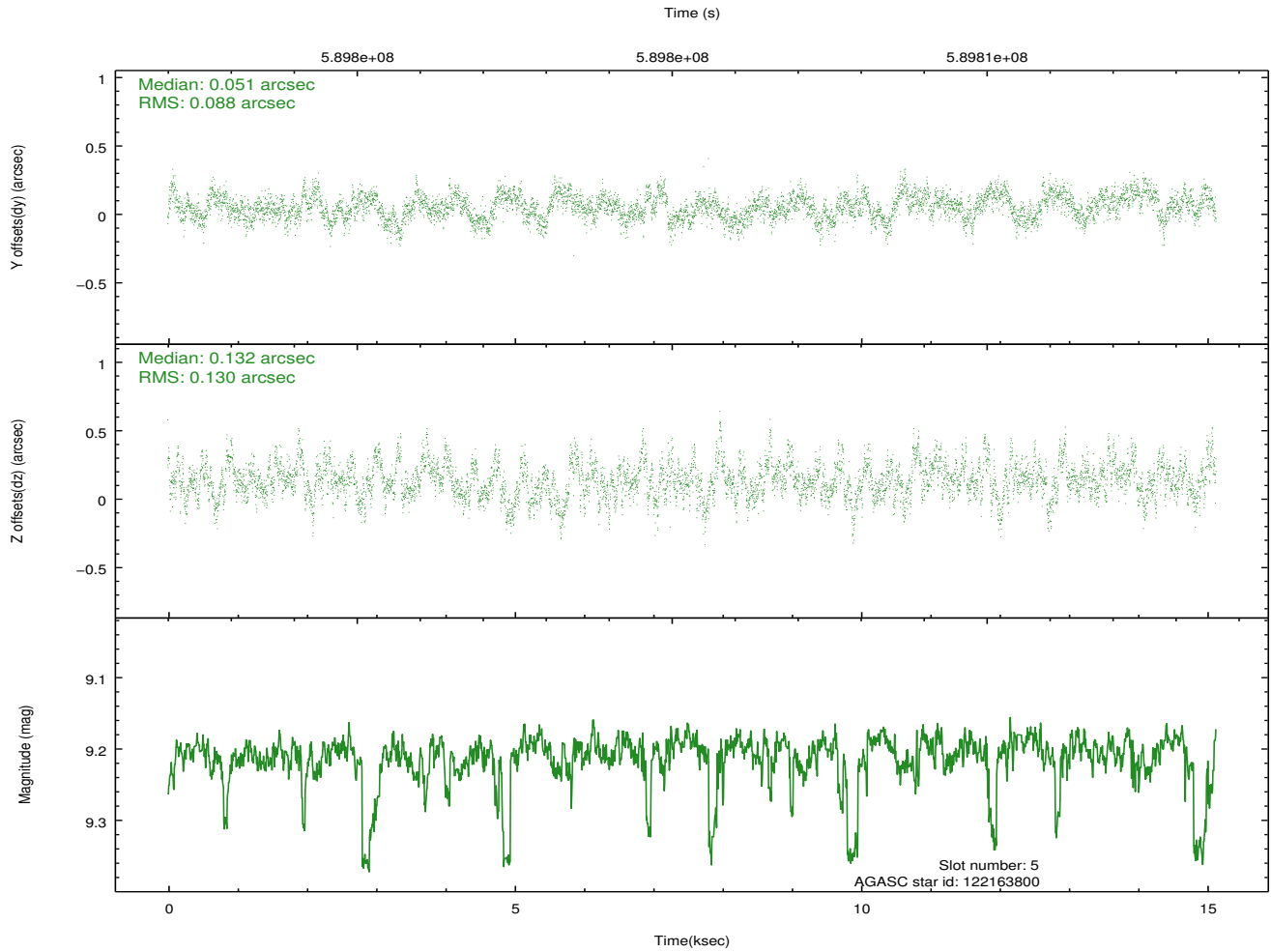
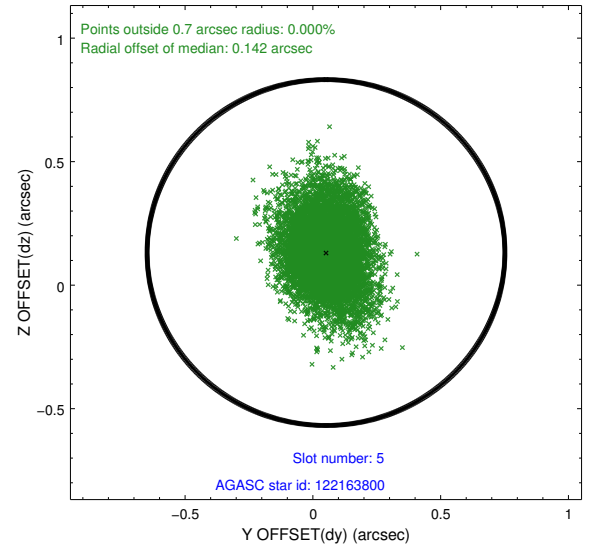
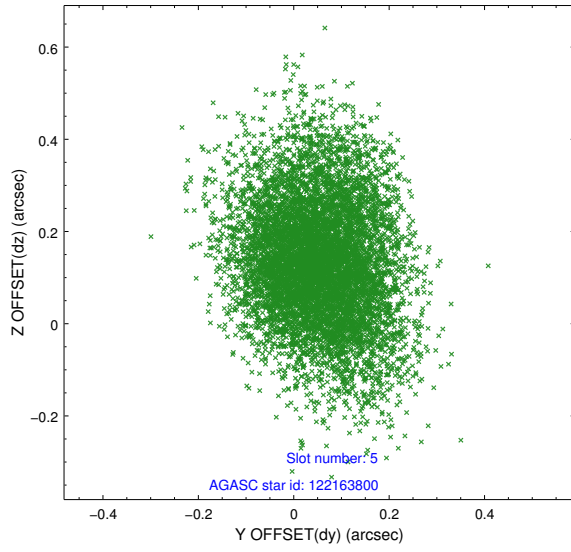
2.4.1 Slot 3



2.4.2 Slot 4

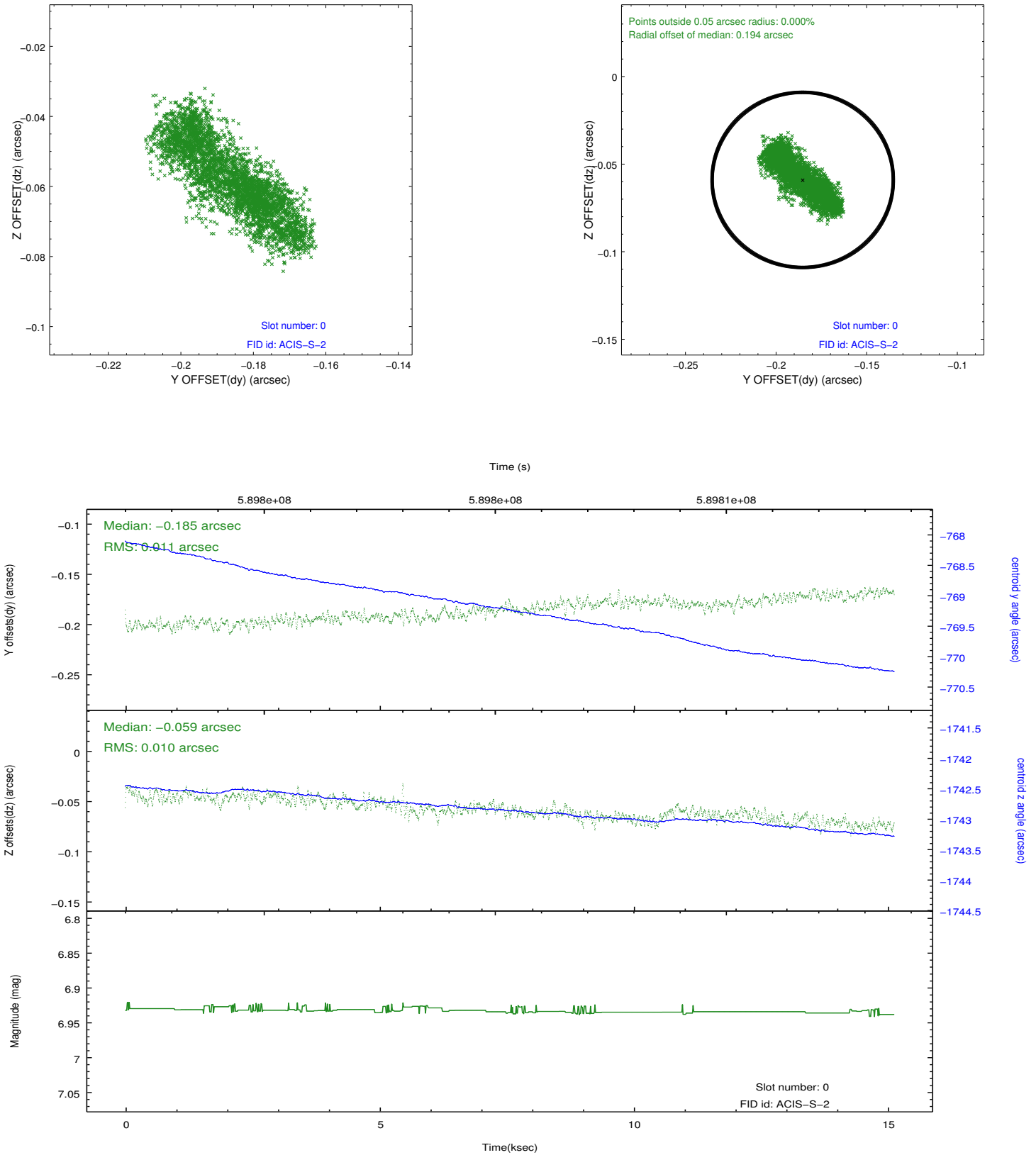


2.4.3 Slot 5

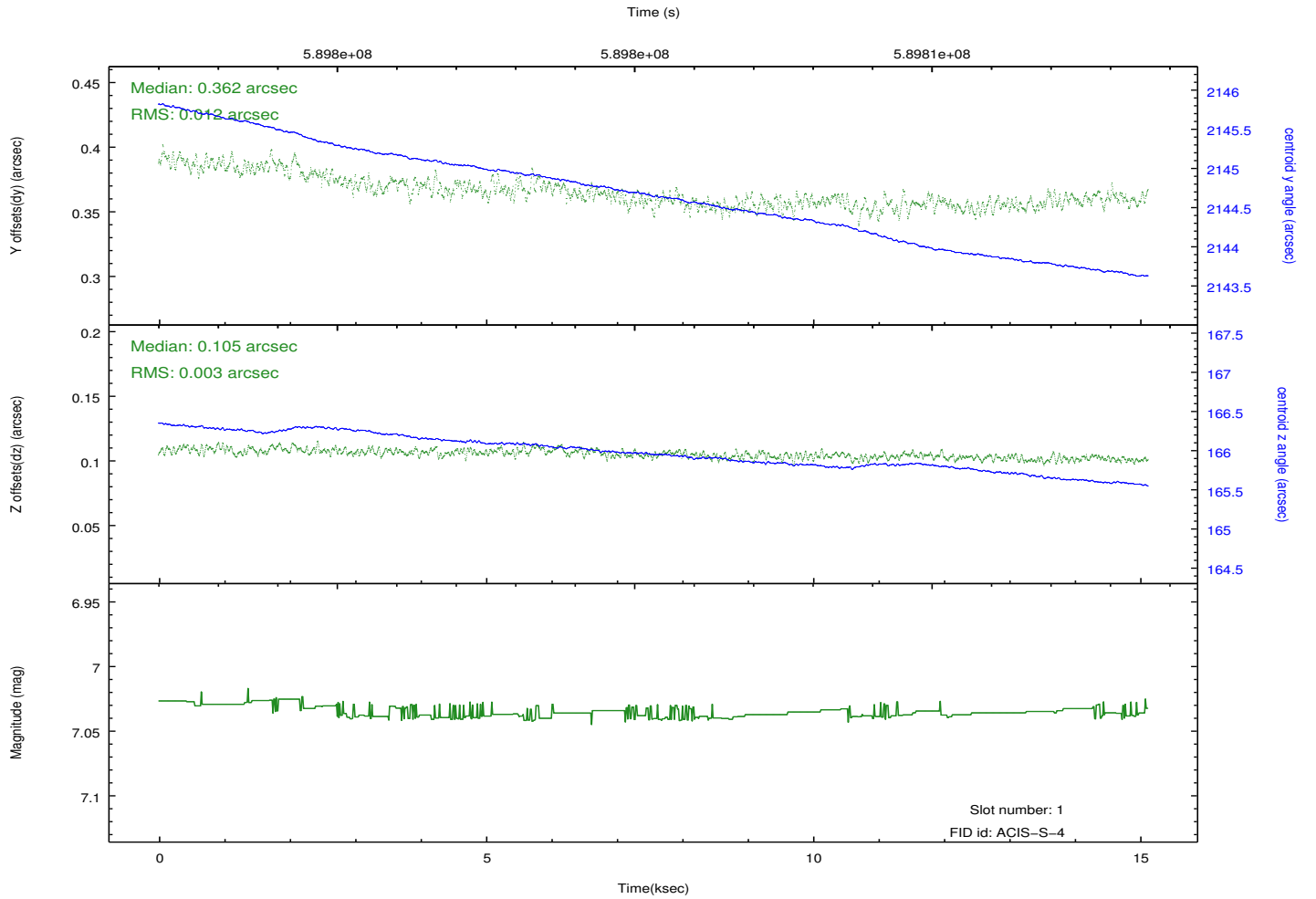
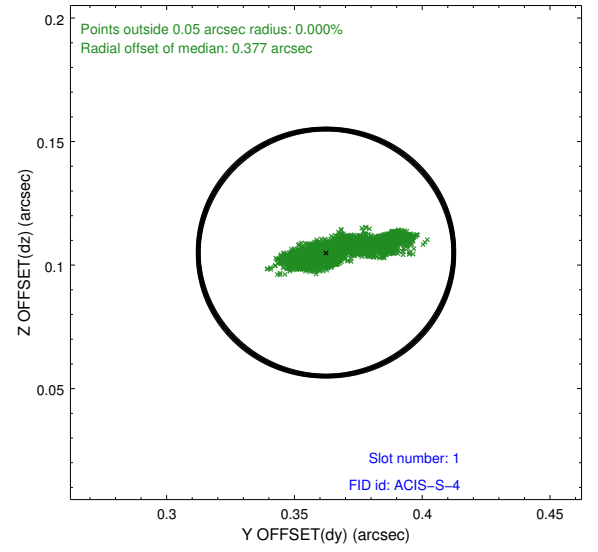
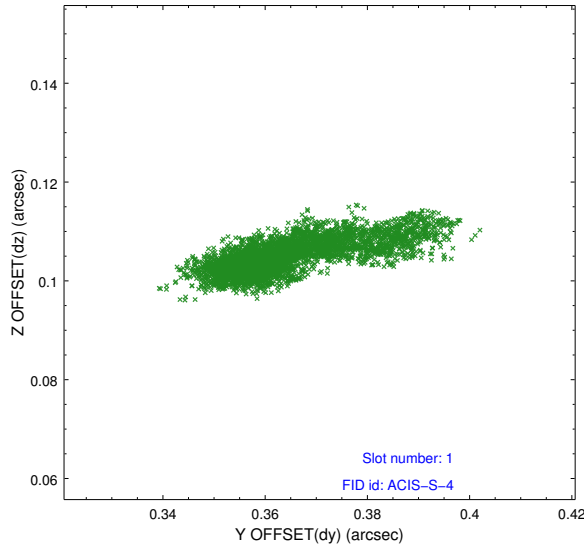


2.5 FID Slots

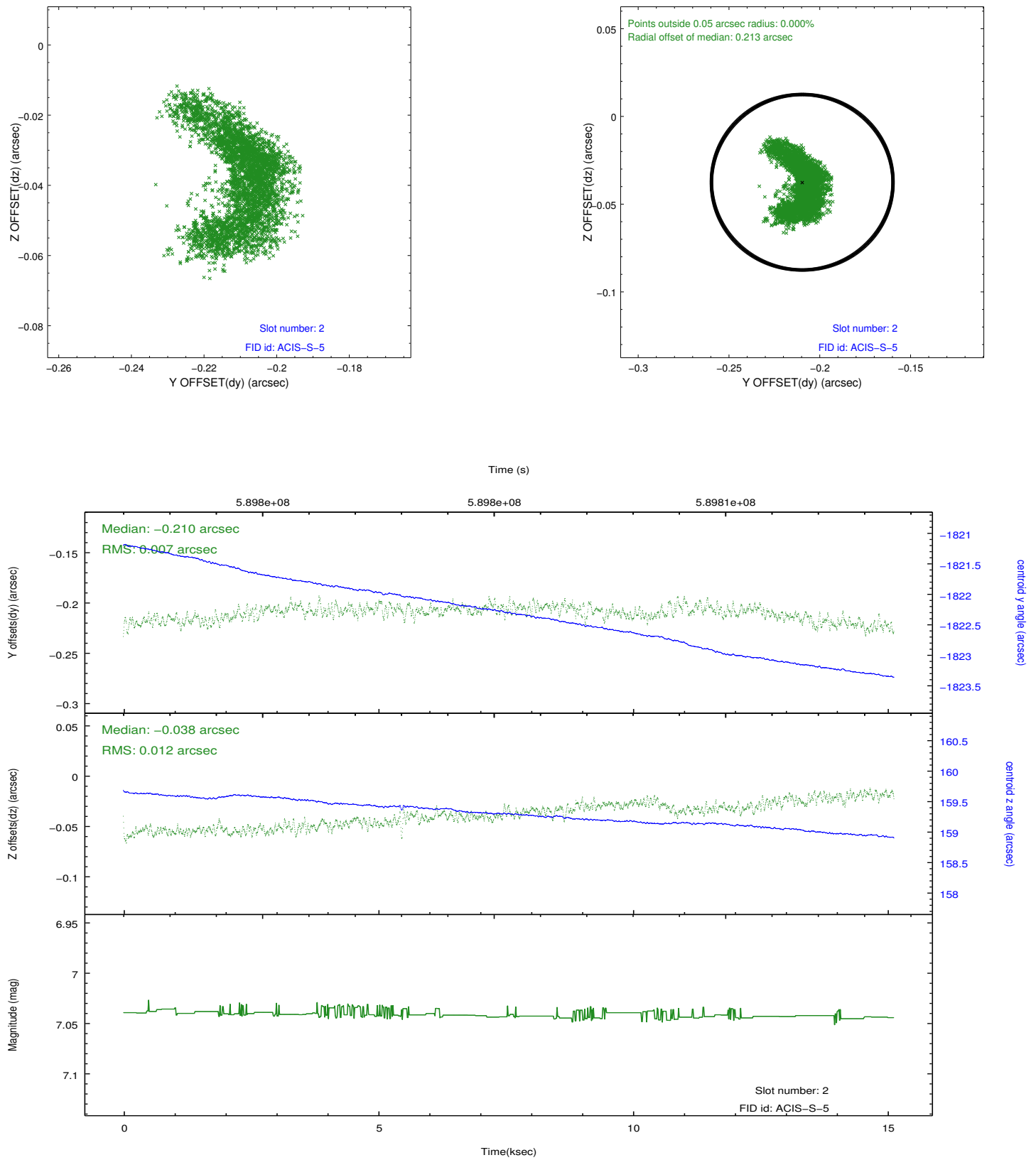
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.09.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.059800115943

A.2 Comments

The guide stars in slots 6 and 7 were removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of these slots from the solution.