

V&V Reference Report

L2 ASCDS Version : 10.4

Observation 17186 - L2 Version 1
Chandra X-Ray Center

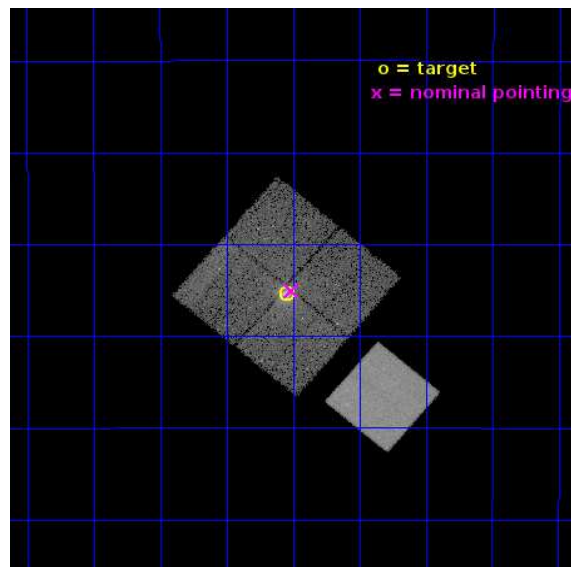
L2 Processing Date : Jun 12 2015

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1 Front

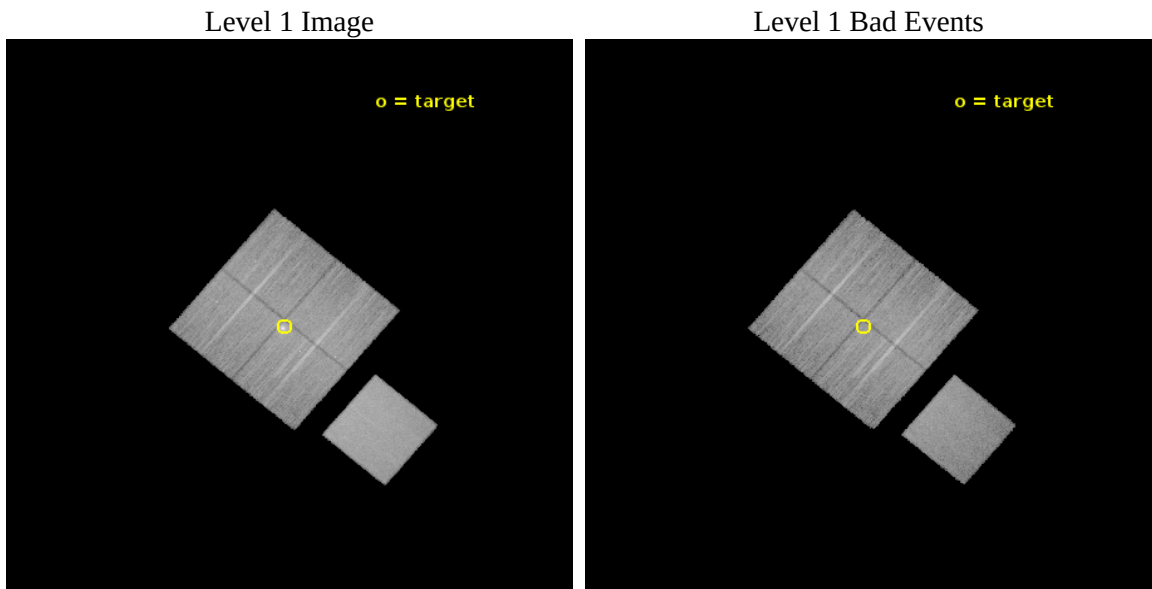
seq_num	801469	Sequence number
obs_id	17186	Observation id
title	Completing the survey of the most massive southern galaxy clusters	
observer	Prof. Hans Boehringer	Principal investigator
object	RXCJ0138.0-2155	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	24.5125	Observer's specified target RA [deg]
dec_targ	-21.923	Observer's specified target Dec [deg]
ra_nom	24.503222673002	Nominal RA [deg]
dec_nom	-21.917868707553	Nominal Dec [deg]
roll_nom	130.20521948977	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25060.359212637	Sum of GTIs [s]
livetime	24732.927170356	Livetime [s]
ontime0	25063.500192881	Sum of GTIs [s]
ontime1	25063.500192881	Sum of GTIs [s]
ontime2	25063.500192881	Sum of GTIs [s]
ontime3	25060.359212637	Sum of GTIs [s]
ontime7	25063.500192881	Sum of GTIs [s]
l2events	134011	Number of level 2 events



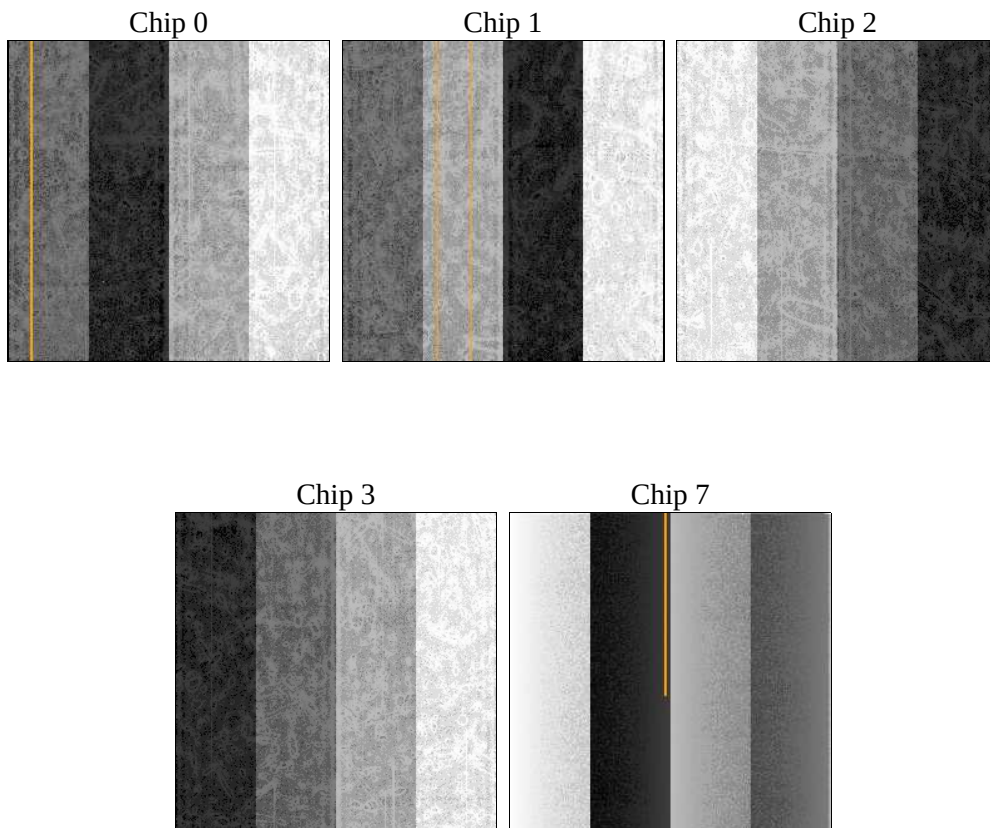
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	25060.359212637	Sum of GTIs [s]
caldsver	4.6.7	 	ontime0	25063.500192881	Sum of GTIs [s]
date	2015-06-13T00:11:52	Date and time of file creation	ontime1	25063.500192881	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25063.500192881	Sum of GTIs [s]
			ontime3	25060.359212637	Sum of GTIs [s]
			ontime7	25063.500192881	Sum of GTIs [s]
			l1events	678267	Number of level 1 events

2.1.4 Events

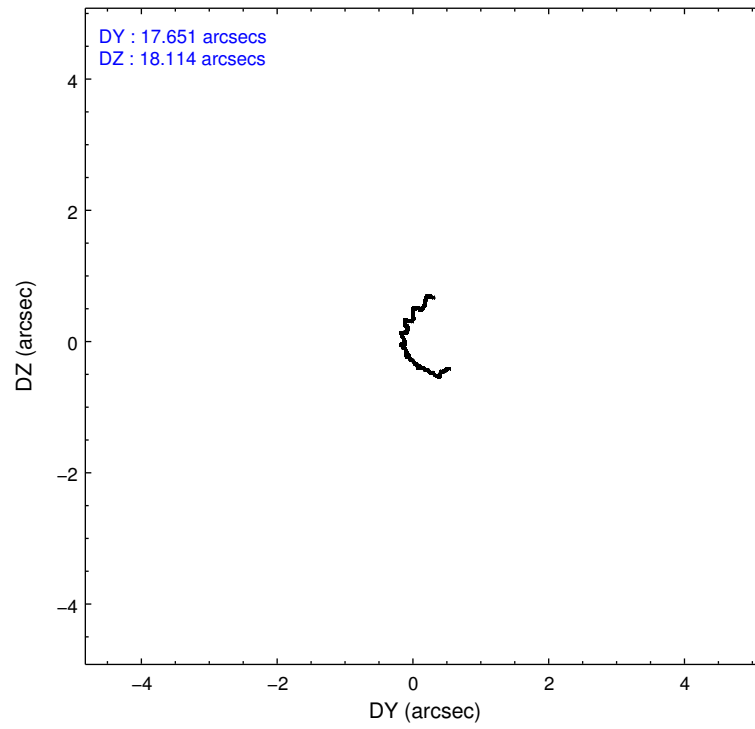
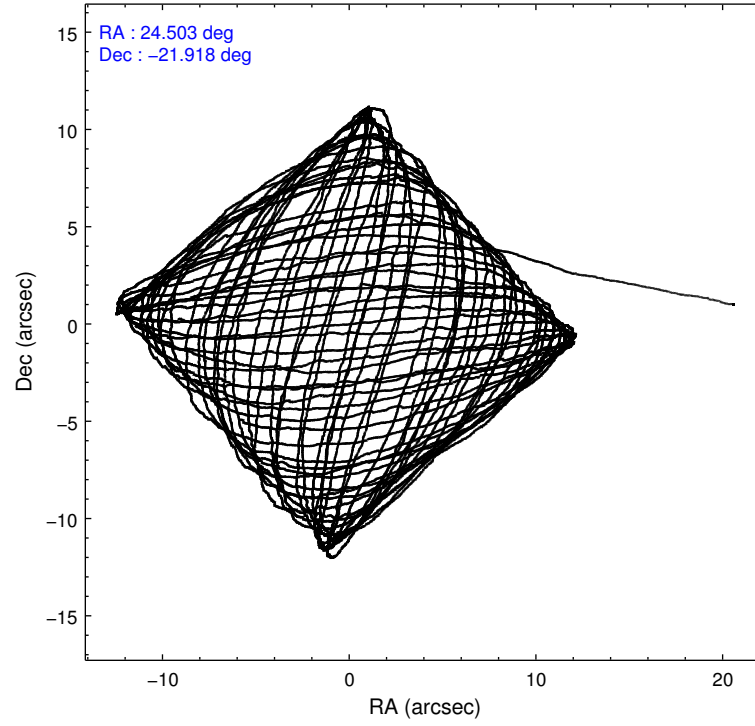
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	118491	122087	130195	131328	176166
rejected events	102989	104565	114802	109839	99809
rejected %	86%	85%	88%	83%	56%

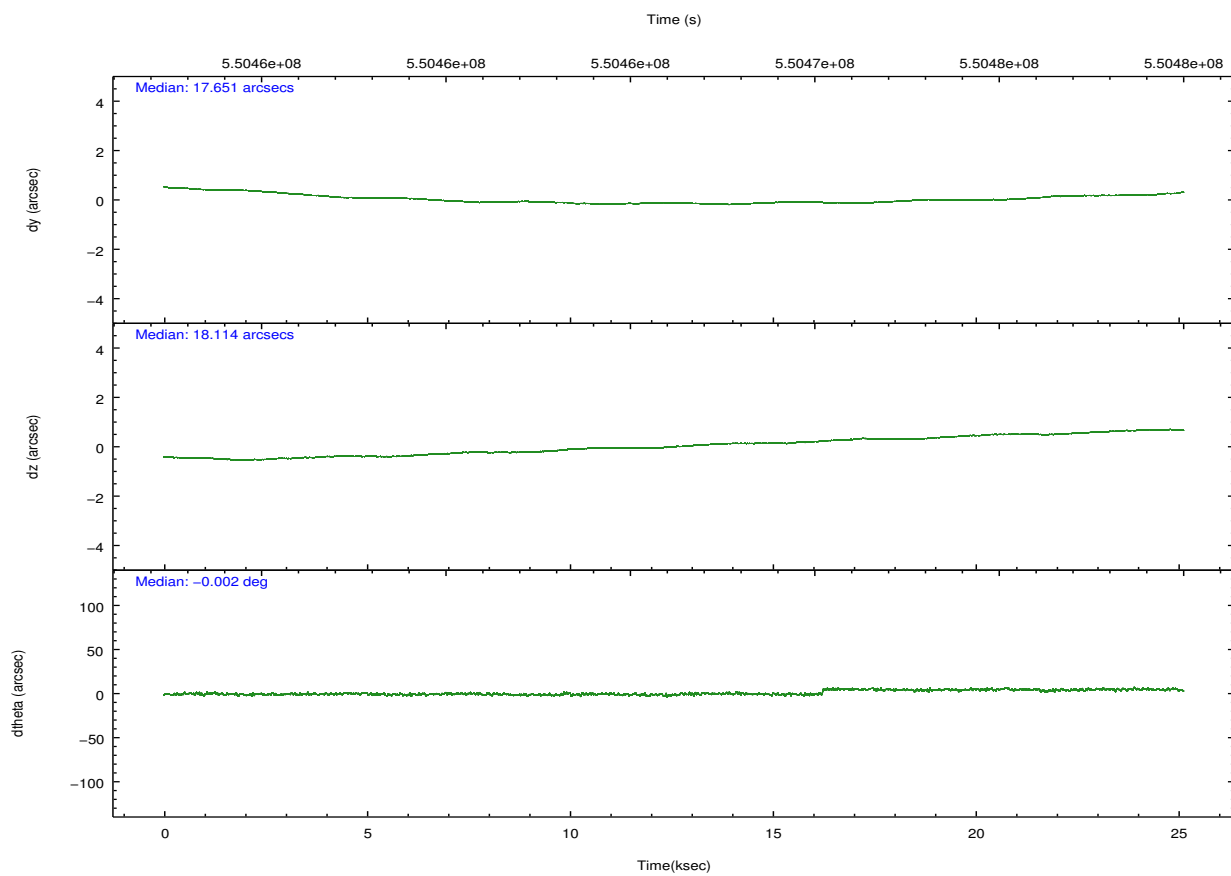
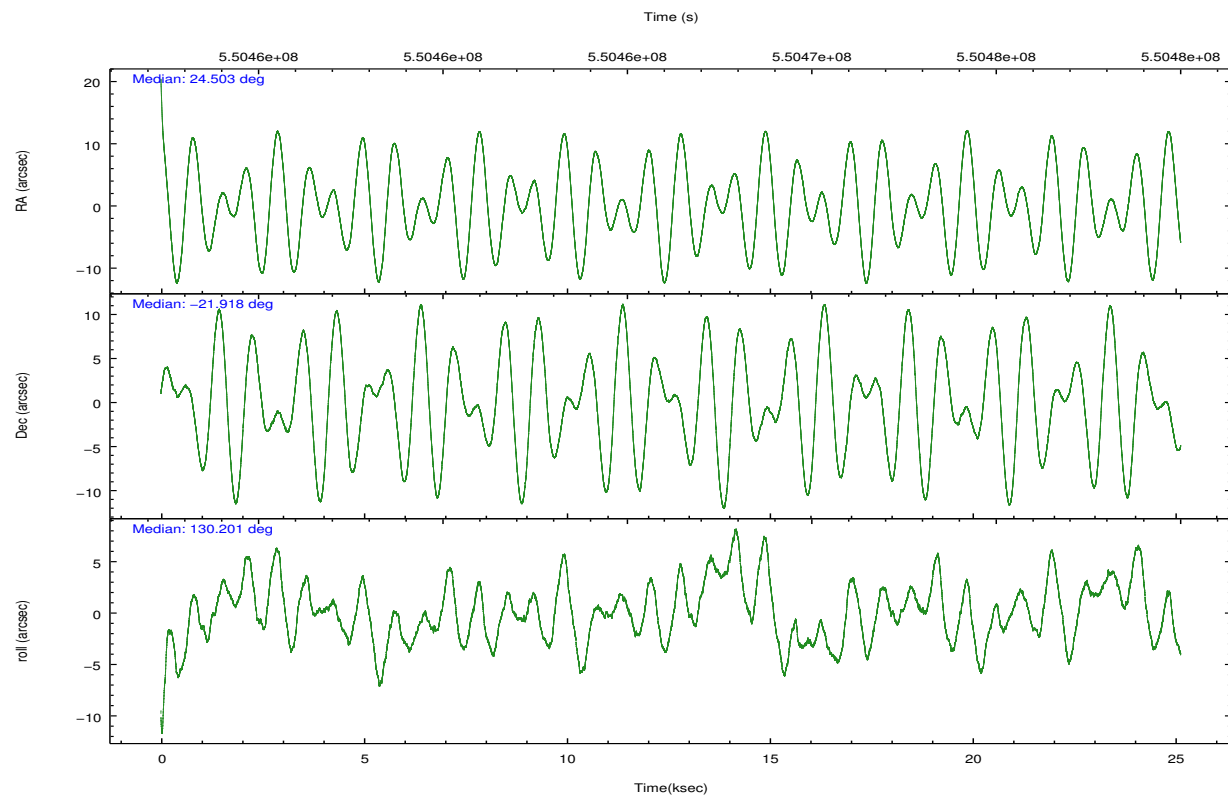
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	5462	6358	5593	10922	6610
	4%	5%	4%	8%	3%
grade 1 events	76	57	73	113	223
	0%	0%	0%	0%	0%
grade 2 events	3888	4277	3917	3774	15812
	3%	3%	3%	2%	8%
grade 3 events	1572	1636	1479	1768	6396
	1%	1%	1%	1%	3%
grade 4 events	1430	1576	1521	1746	6426
	1%	1%	1%	1%	3%
grade 5 events	5882	6249	5664	6686	18100
	4%	5%	4%	5%	10%
grade 6 events	3152	3678	2884	3282	41129
	2%	3%	2%	2%	23%
grade 7 events	97029	98256	109064	103037	81470
	81%	80%	83%	78%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	24.531232	24.50322267300152	CCD I2 on	Y	Y
[deg] Pointing Dec	-21.927125	-21.91786870755309	CCD I3 on	Y	Y
[deg] Pointing Roll	130.006997	130.2052194897661	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	550453743.184000	550452485.24774	CCD S5 on	N	N
Observation start date	2015-06-11T23:47:56	2015-06-11T23:28:05	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	550478743.184000	550479220.32424	On-chip summing requested	N	N
Observation end date	2015-06-12T06:44:36	2015-06-12T06:53:40	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



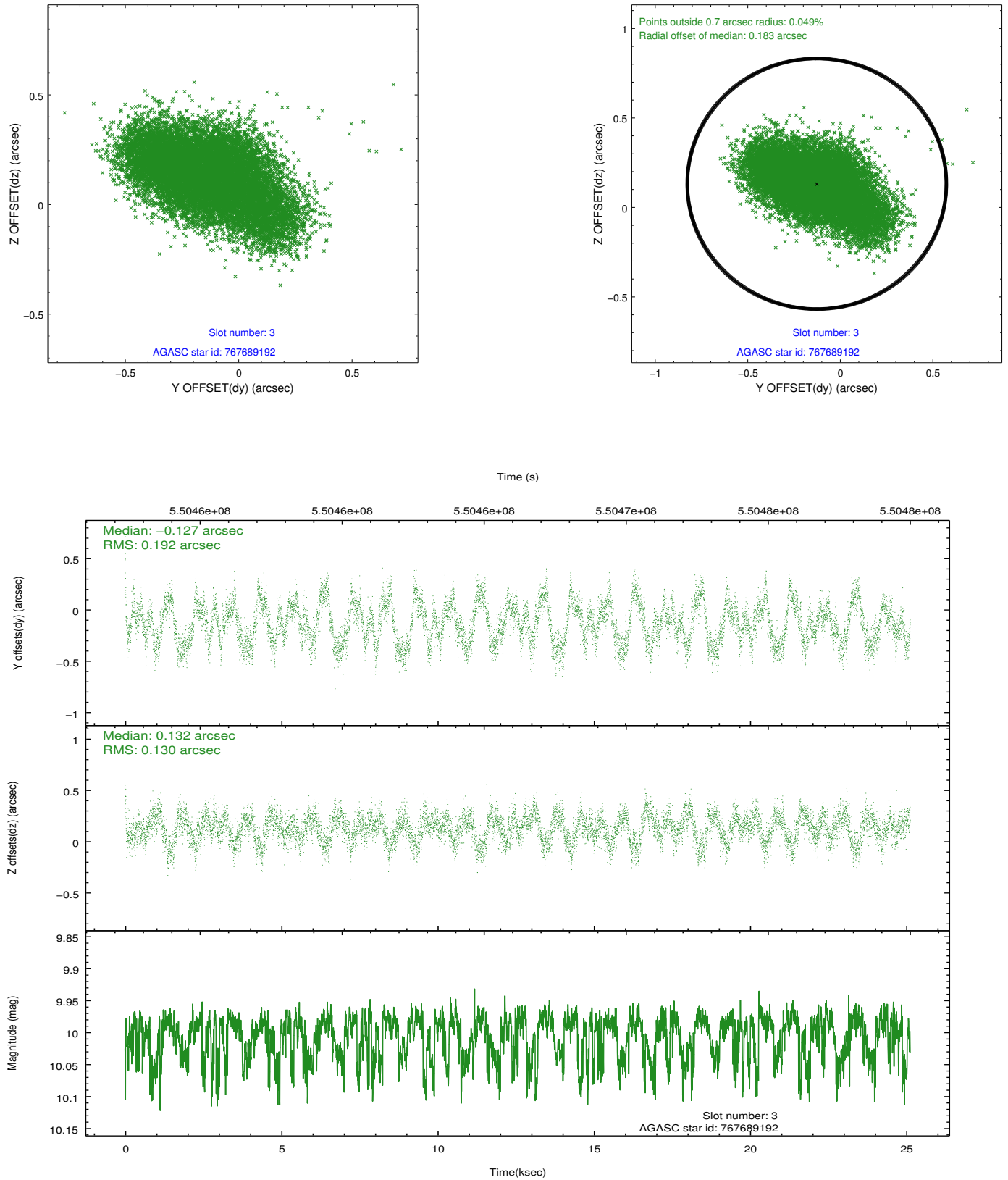


Slot Statistics

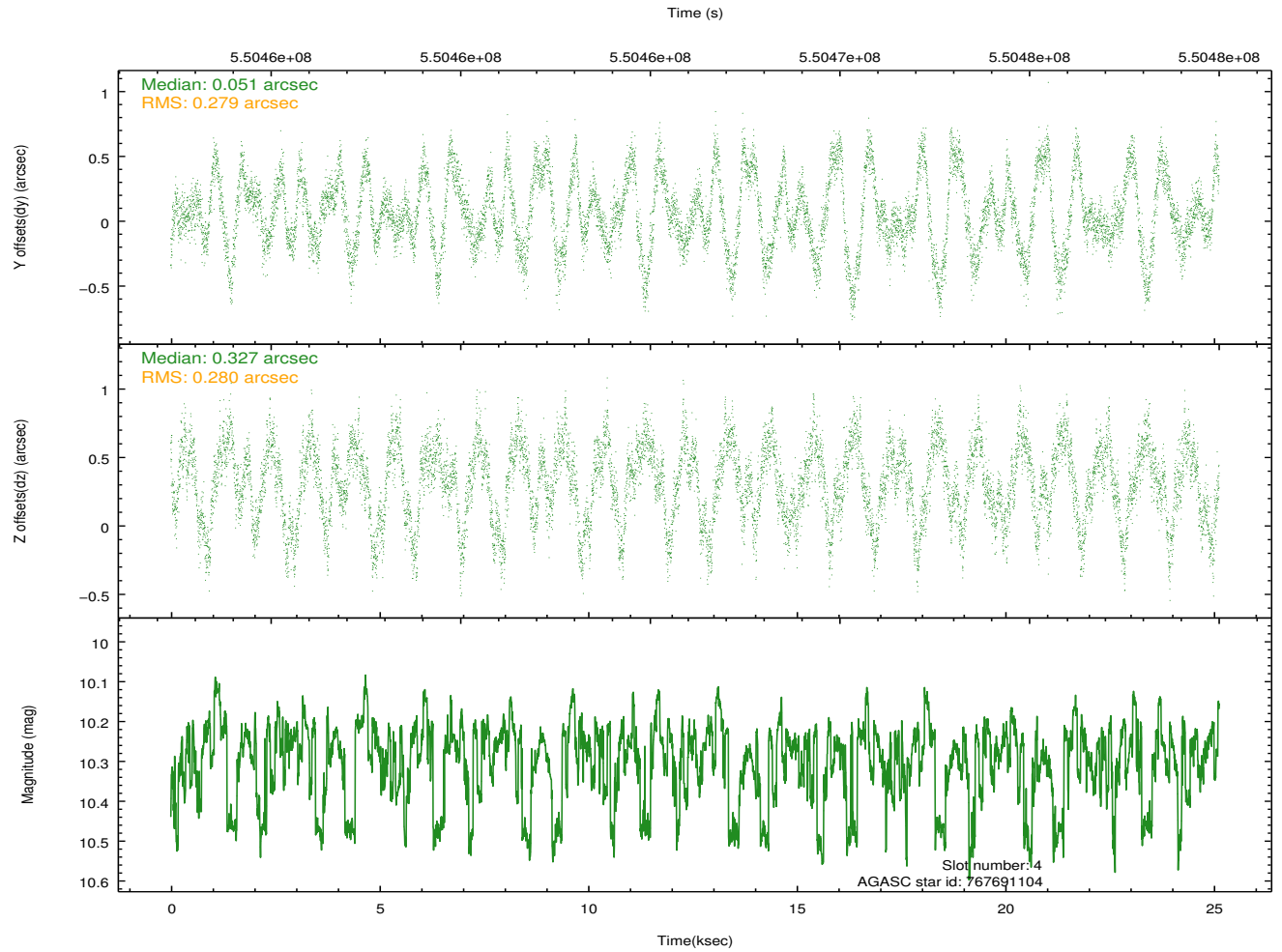
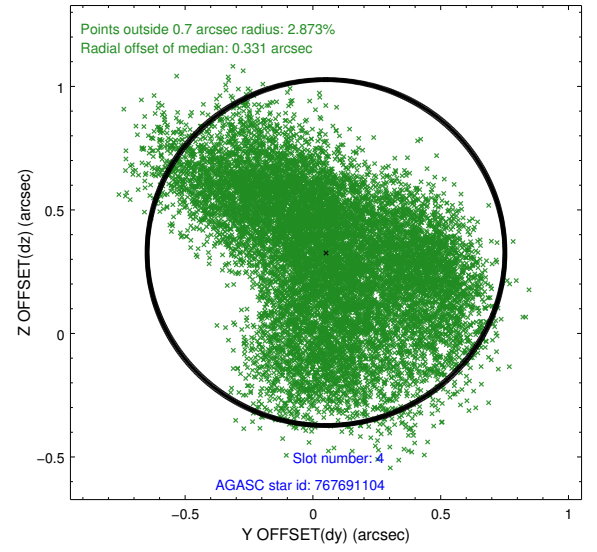
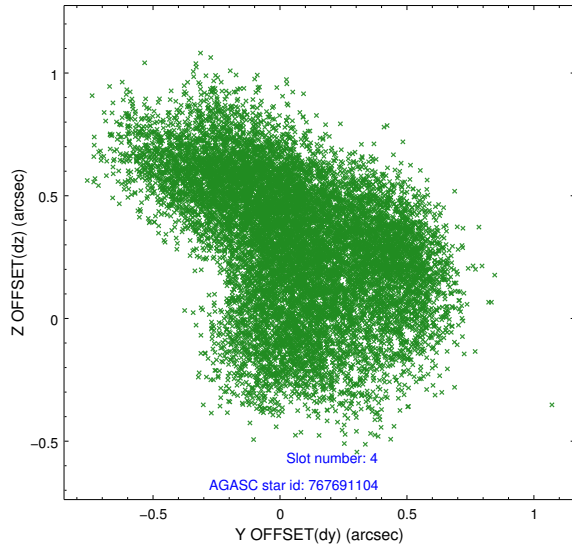
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.05	6130	-0.076	0.016	0.034	0.046	0.000000	0.000000	921.61	-841.81
1	FID		ACIS-I-2	6.96	6130	-0.216	-0.128	0.018	0.028	0.000000	0.000000	-772.56	-848.45
2	FID		ACIS-I-4	6.99	6128	0.196	0.178	0.037	0.046	0.000000	0.000000	2141.73	1058.07
3	GUIDE	used	767689192	10.00	12247	-0.127	0.132	0.248	0.399	24.187803	-21.449707	2054.83	-222.06
4	GUIDE	used	767691104	10.28	12181	0.051	0.327	0.436	0.658	24.751346	-21.633857	335.20	-1242.06
5	GUIDE	used	767691648	9.42	12252	-0.205	-0.292	0.188	0.311	24.062036	-21.628085	1832.12	511.96
6	GUIDE	used	767695048	8.06	12259	0.013	-0.379	0.132	0.200	24.190328	-22.442005	-691.31	2060.77
7	GUIDE	used	767692704	8.61	12257	0.256	0.260	0.140	0.223	25.351196	-22.136343	-2339.97	-1605.00

2.4 Star Slots

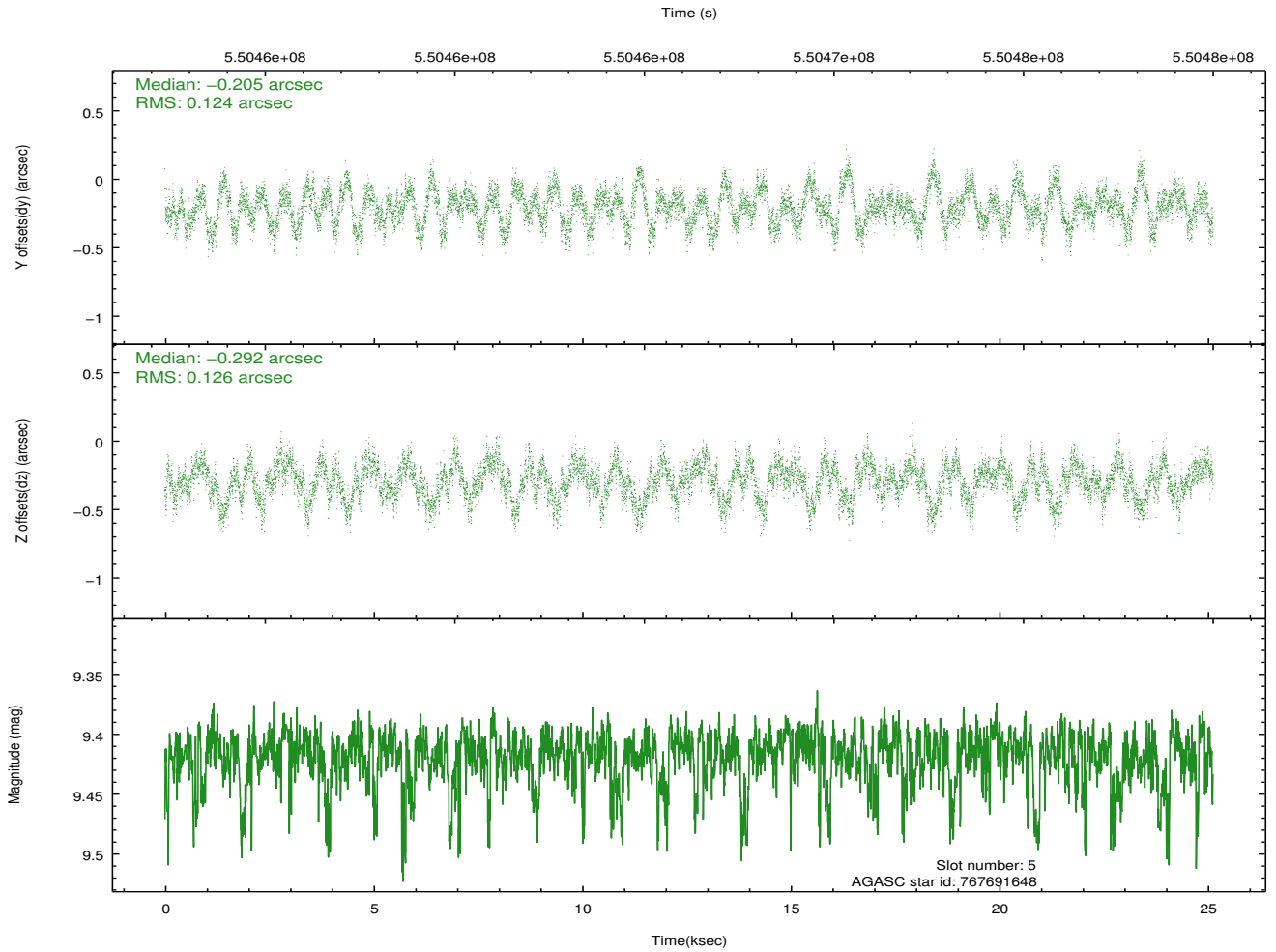
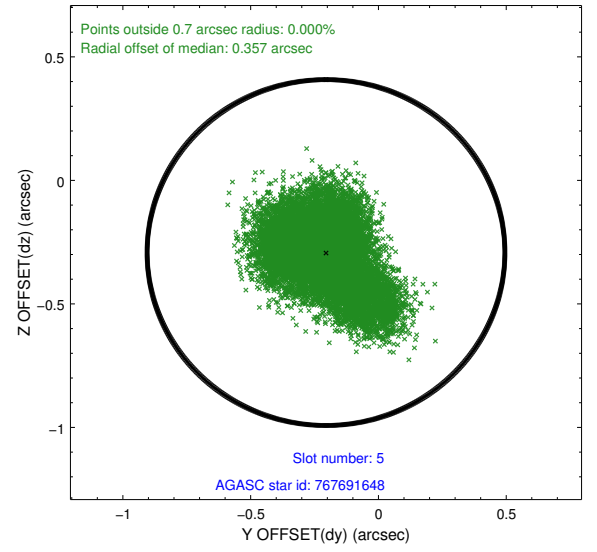
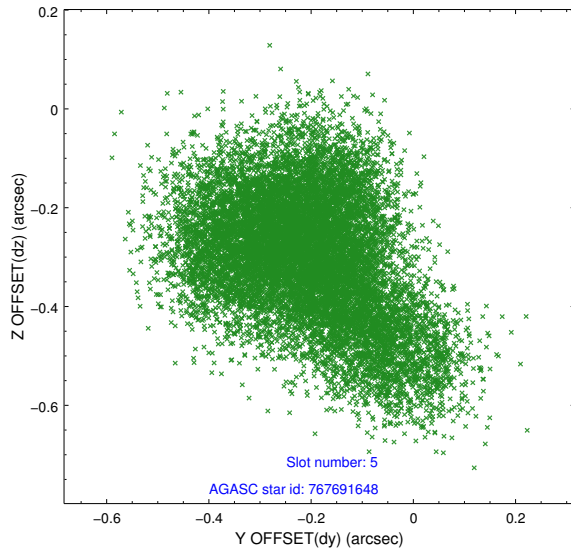
2.4.1 Slot 3



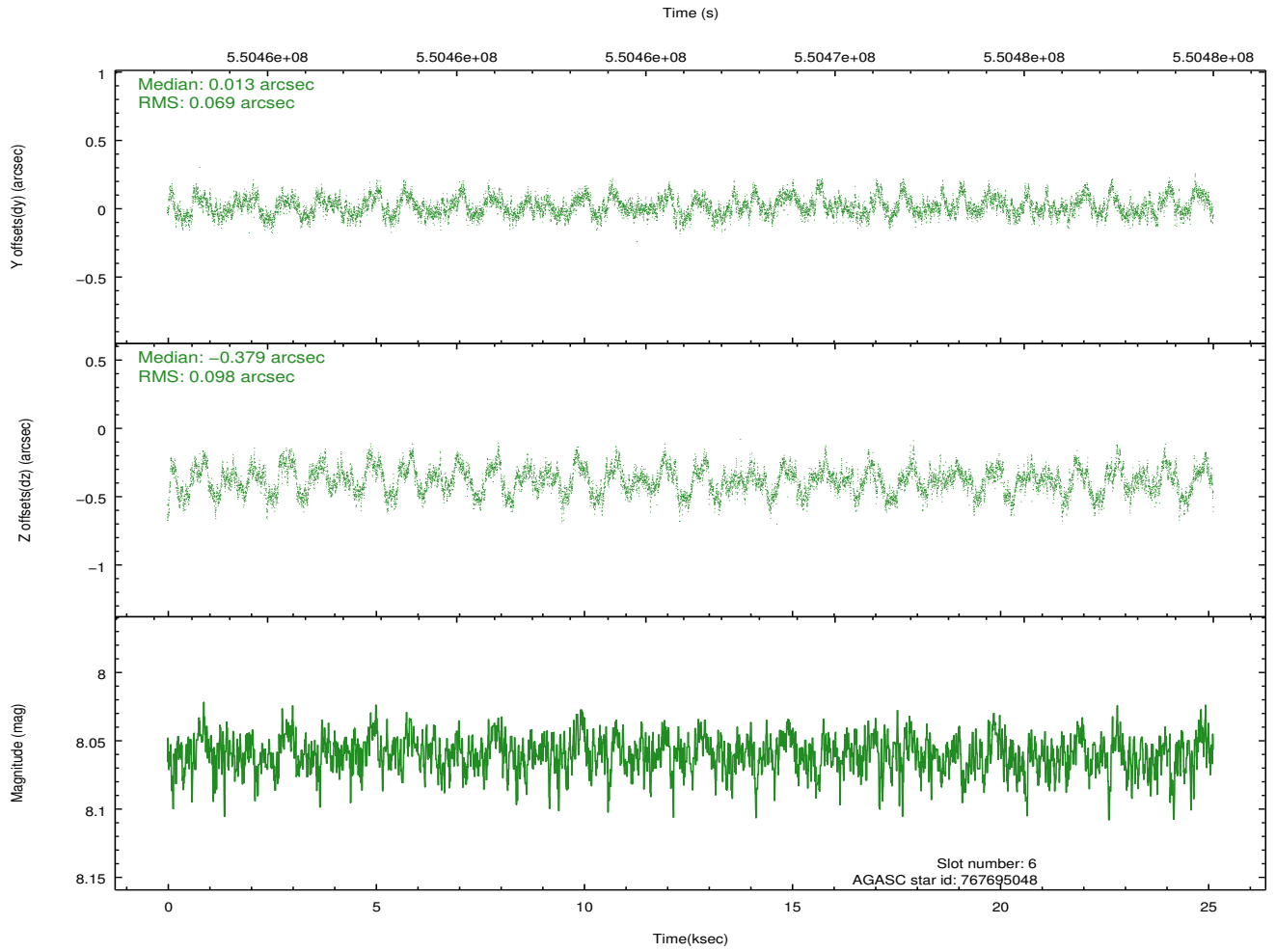
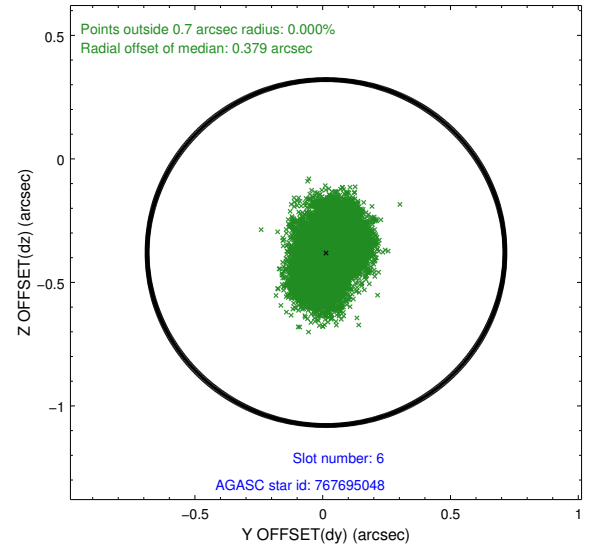
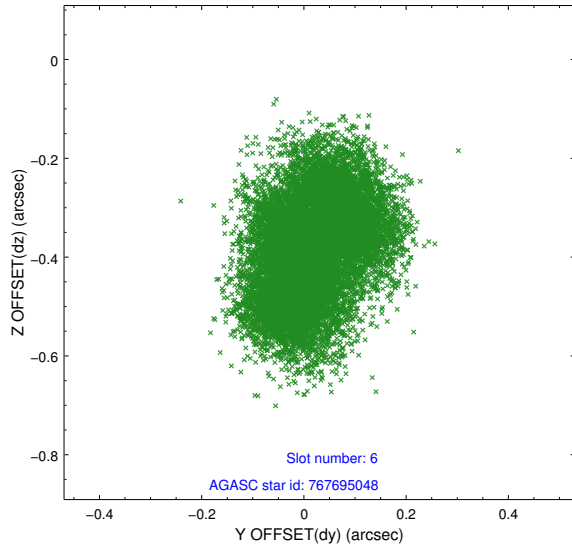
2.4.2 Slot 4



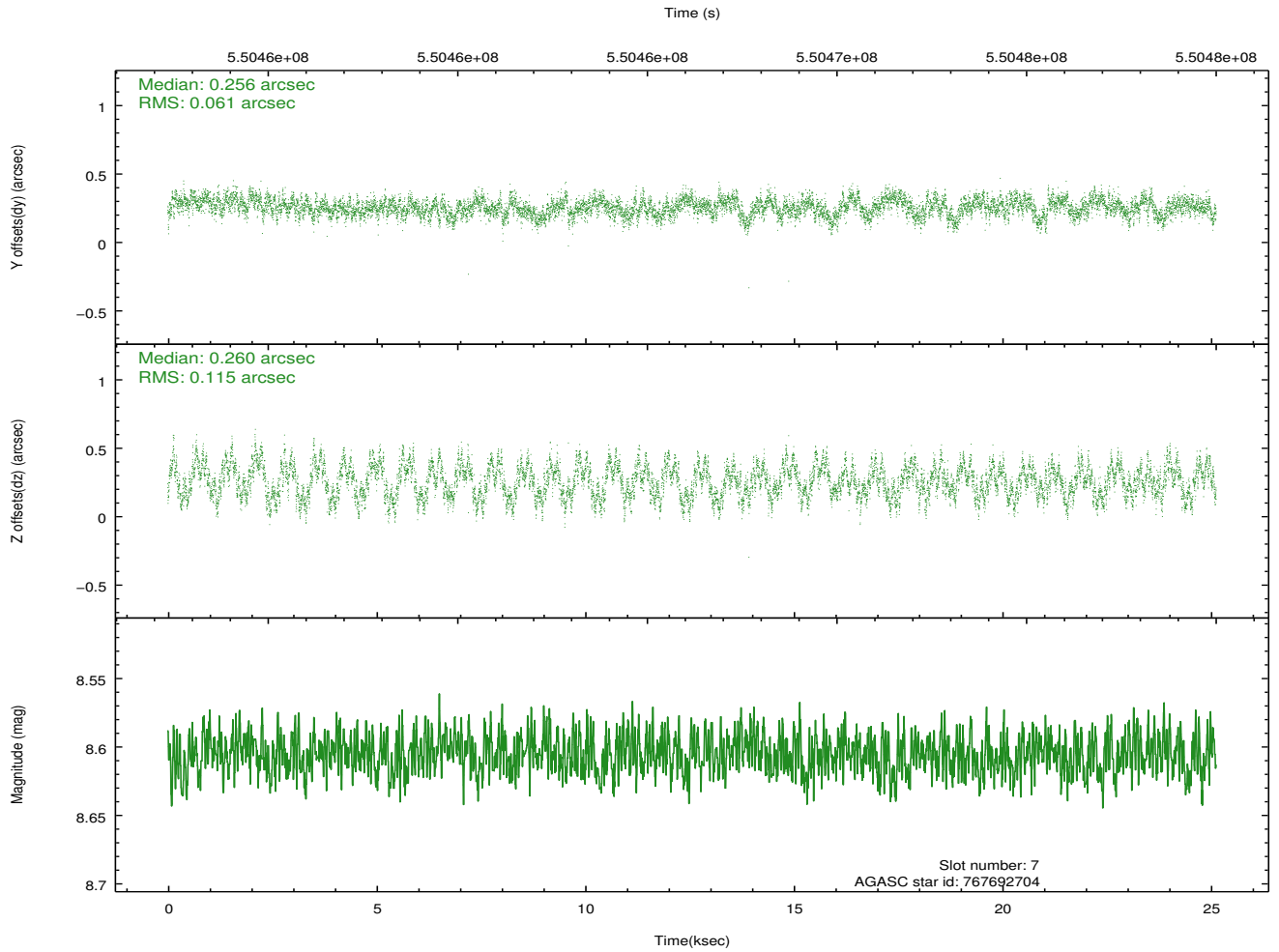
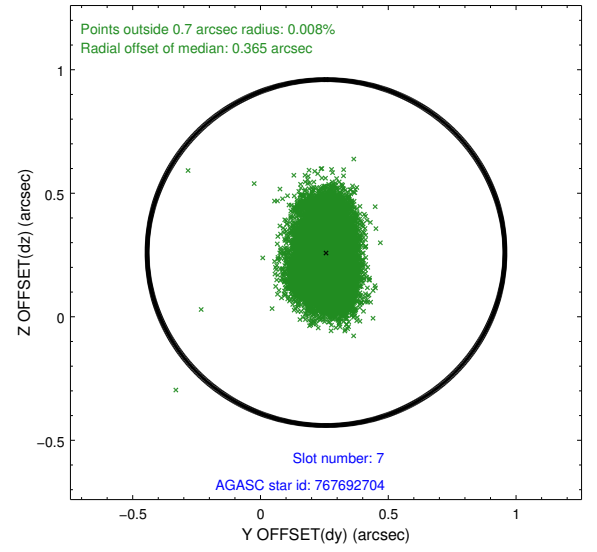
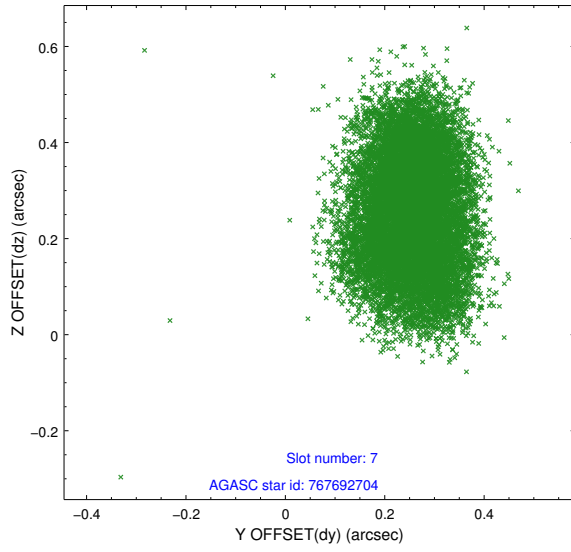
2.4.3 Slot 5



2.4.4 Slot 6

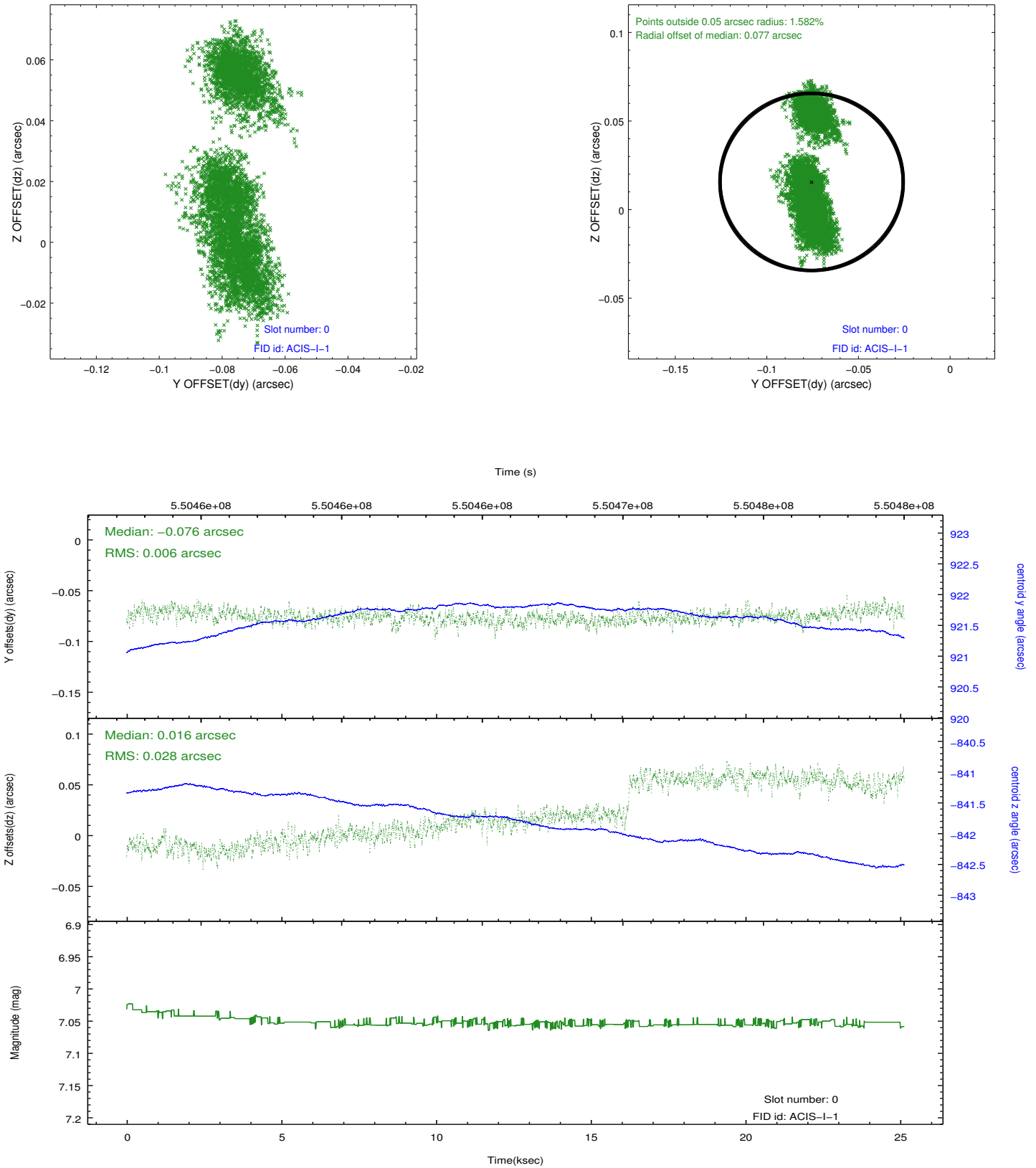


2.4.5 Slot 7

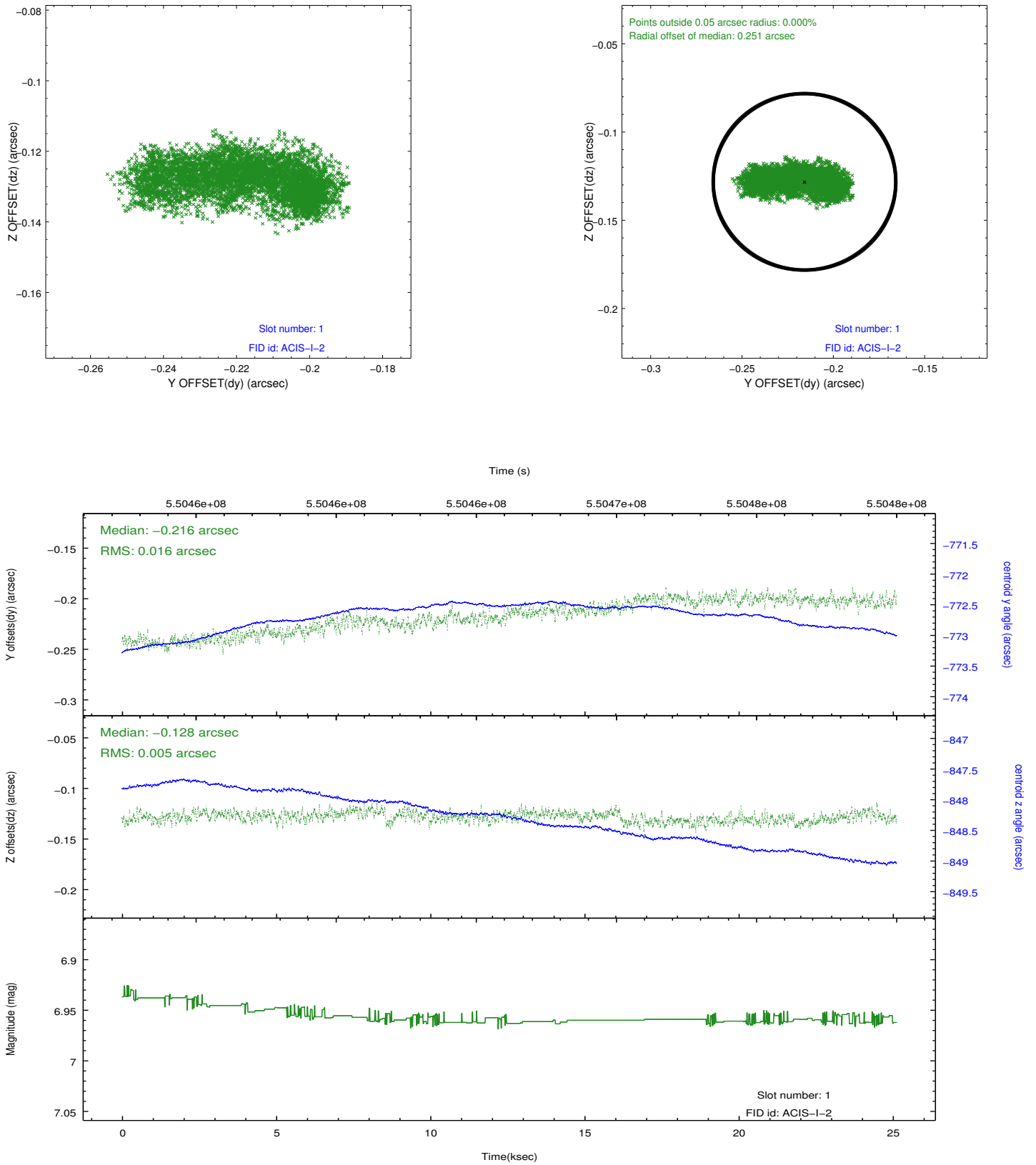


2.5 FID Slots

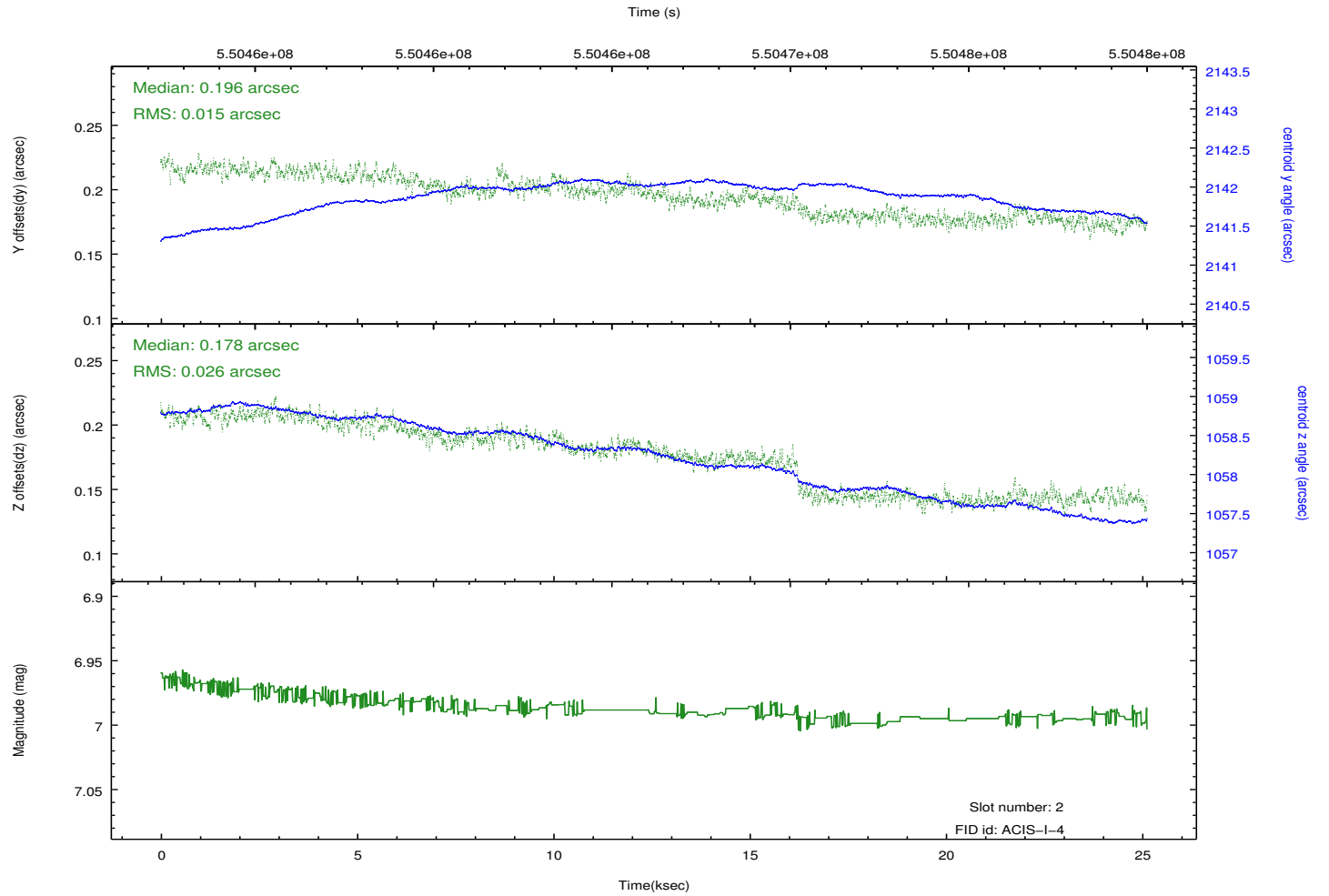
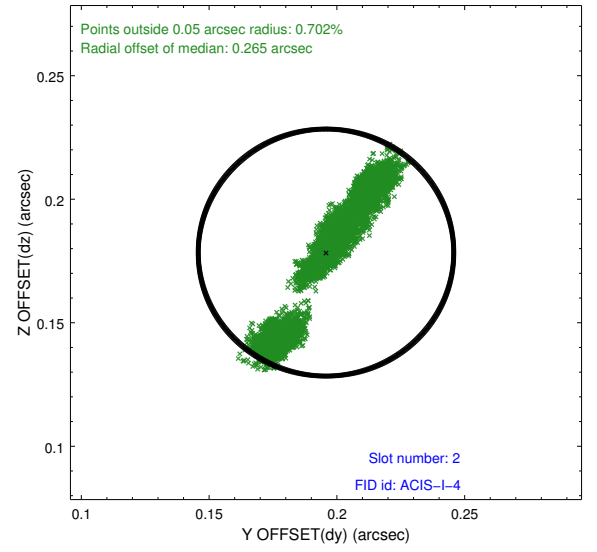
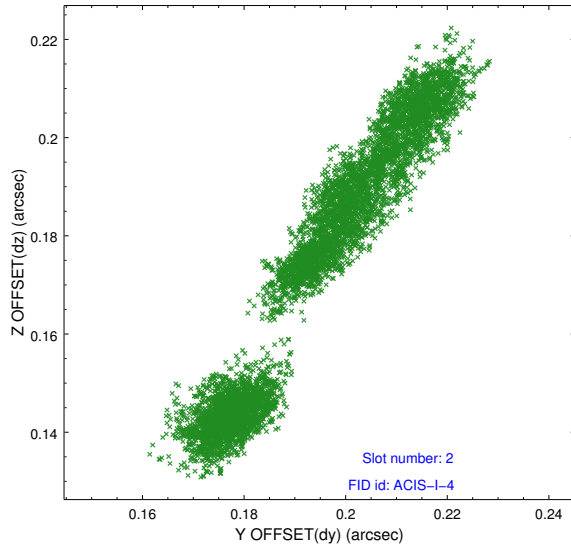
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.060359212637

A.2 Comments