

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10425 - L2 Version 2
Chandra X-Ray Center

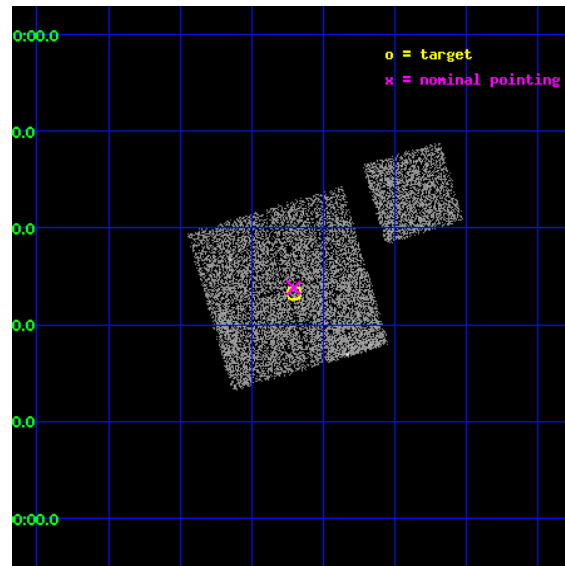
L2 Processing Date : May 31 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

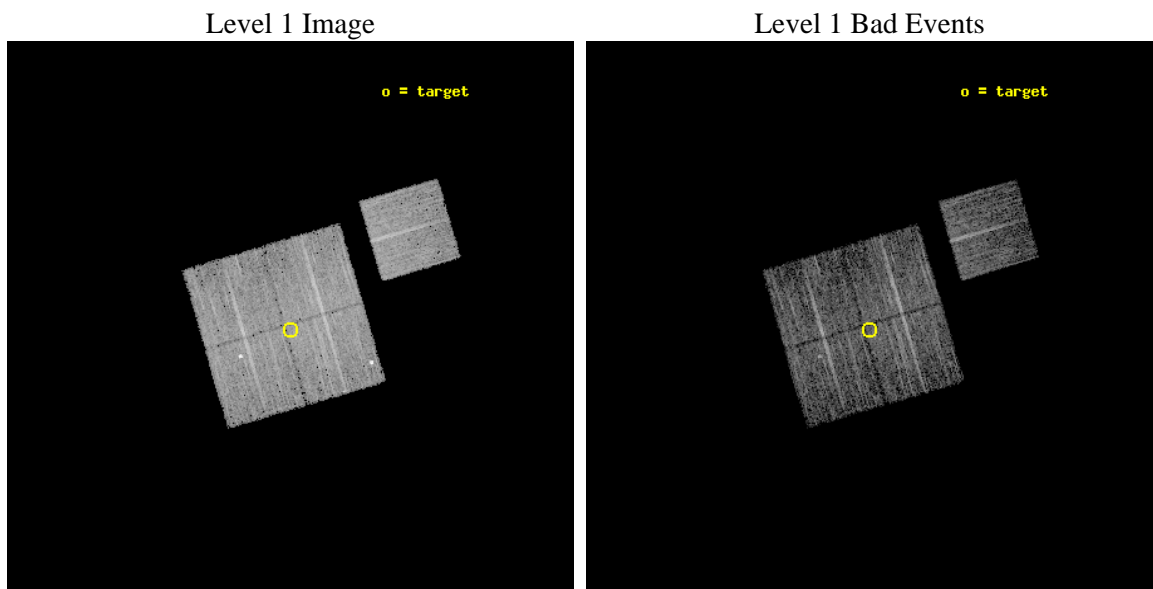
seq_num	800786	Sequence number
obs_id	10425	Observation id
title	A Chandra baseline for galaxy cluster evolution studies	Proposal t
observer	Dr Ben Maughan	Principal investigator
object	A1650	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.801629	Observer's specified target RA [deg]
dec_targ	-1.611069	Observer's specified target Dec [deg]
ra_nom	194.80145899499	Nominal RA [deg]
dec_nom	-1.6028994314428	Nominal Dec [deg]
roll_nom	73.608691737357	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4772.8456225991	Sum of GTIs [s]
livetime	4710.484880822	Livetime [s]
ontime0	4772.7225025892	Sum of GTIs [s]
ontime1	4772.7635425925	Sum of GTIs [s]
ontime2	4769.6635522842	Sum of GTIs [s]
ontime3	4772.8456225991	Sum of GTIs [s]
ontime6	4772.6814625859	Sum of GTIs [s]
l2events	18192	Number of level 2 events



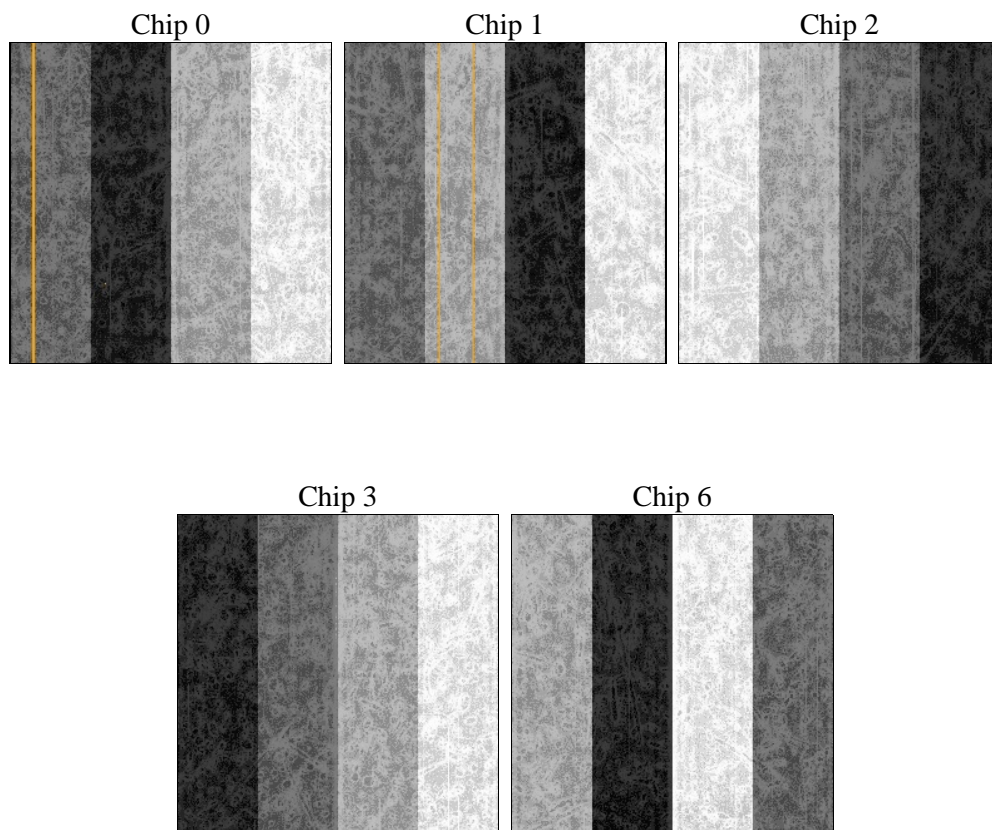
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4772.8456225991	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	4772.7225025892	Sum of GTIs [s]
date	2012-05-31T15:17:41	Date and time of file creation	ontime1	4772.7635425925	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4769.6635522842	Sum of GTIs [s]
			ontime3	4772.8456225991	Sum of GTIs [s]
			ontime6	4772.6814625859	Sum of GTIs [s]
			l1events	202197	Number of level 1 events

2.1.4 Events

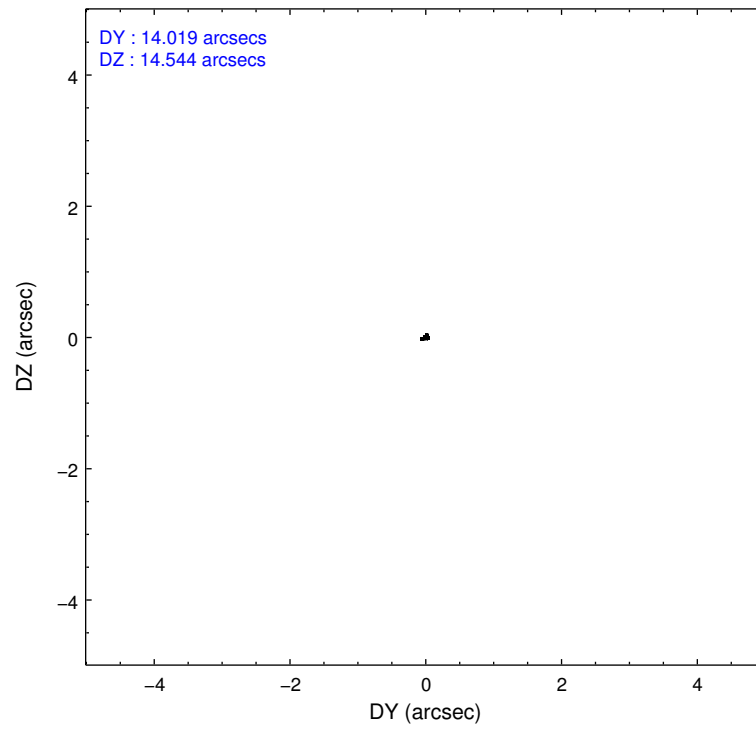
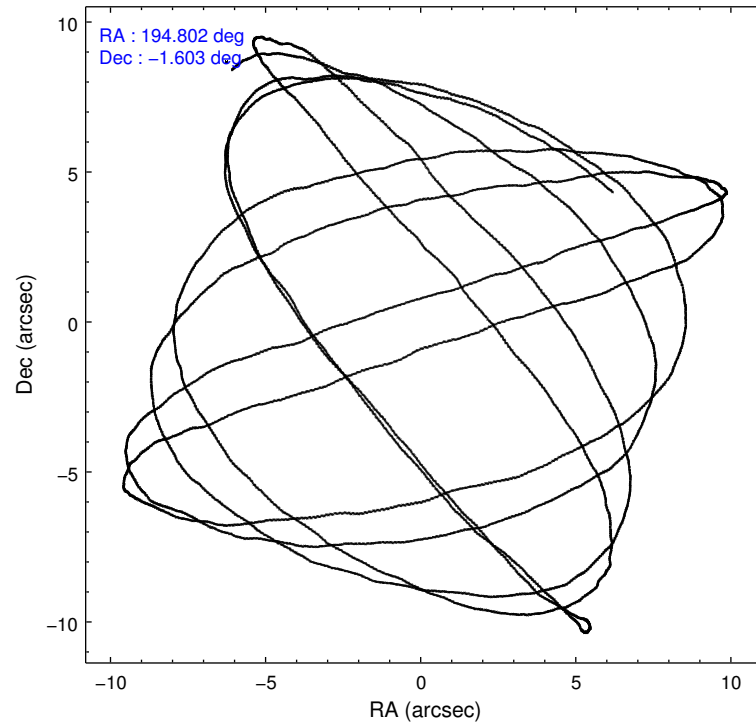
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	37728	38681	42992	43570	39226
rejected events	33634	32874	38967	37319	35010
rejected %	89%	84%	90%	85%	89%

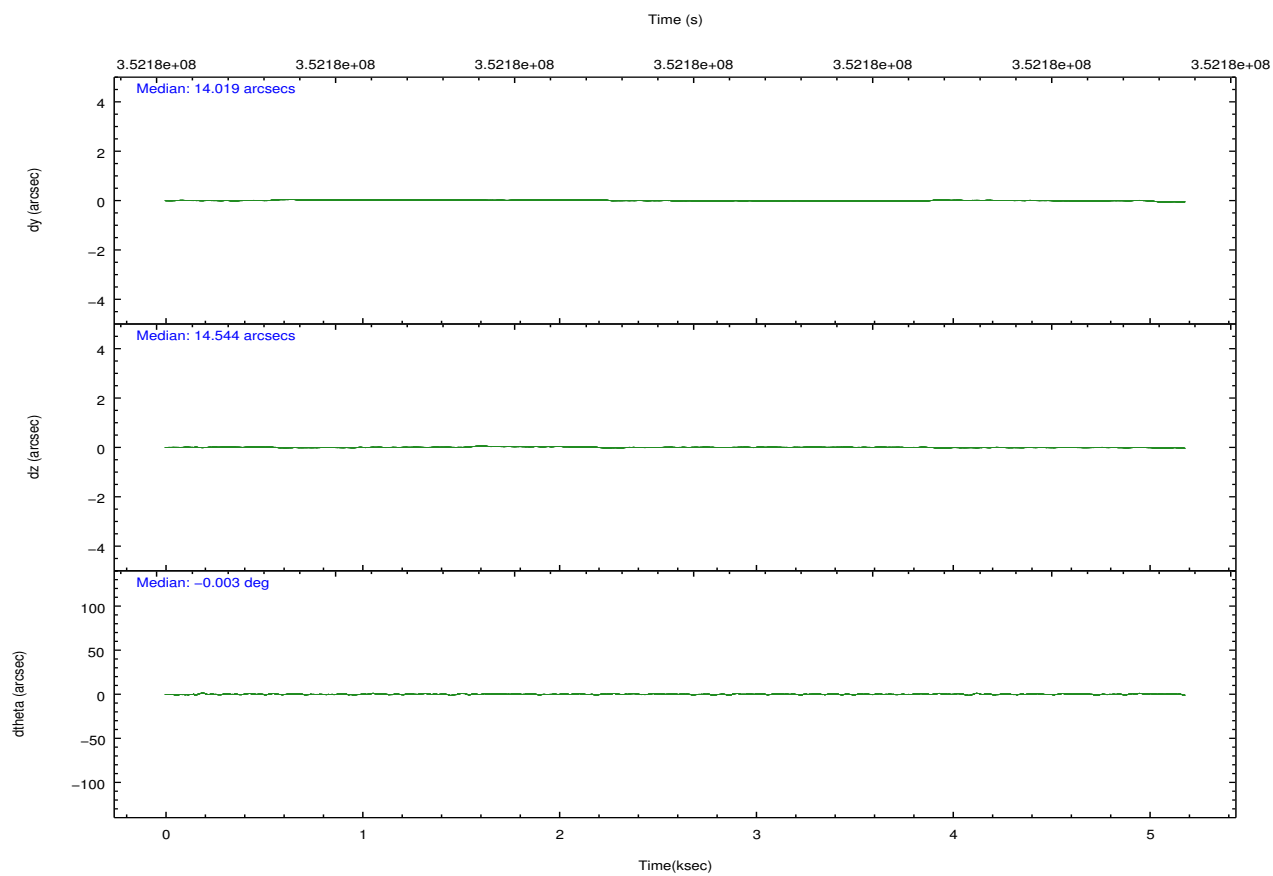
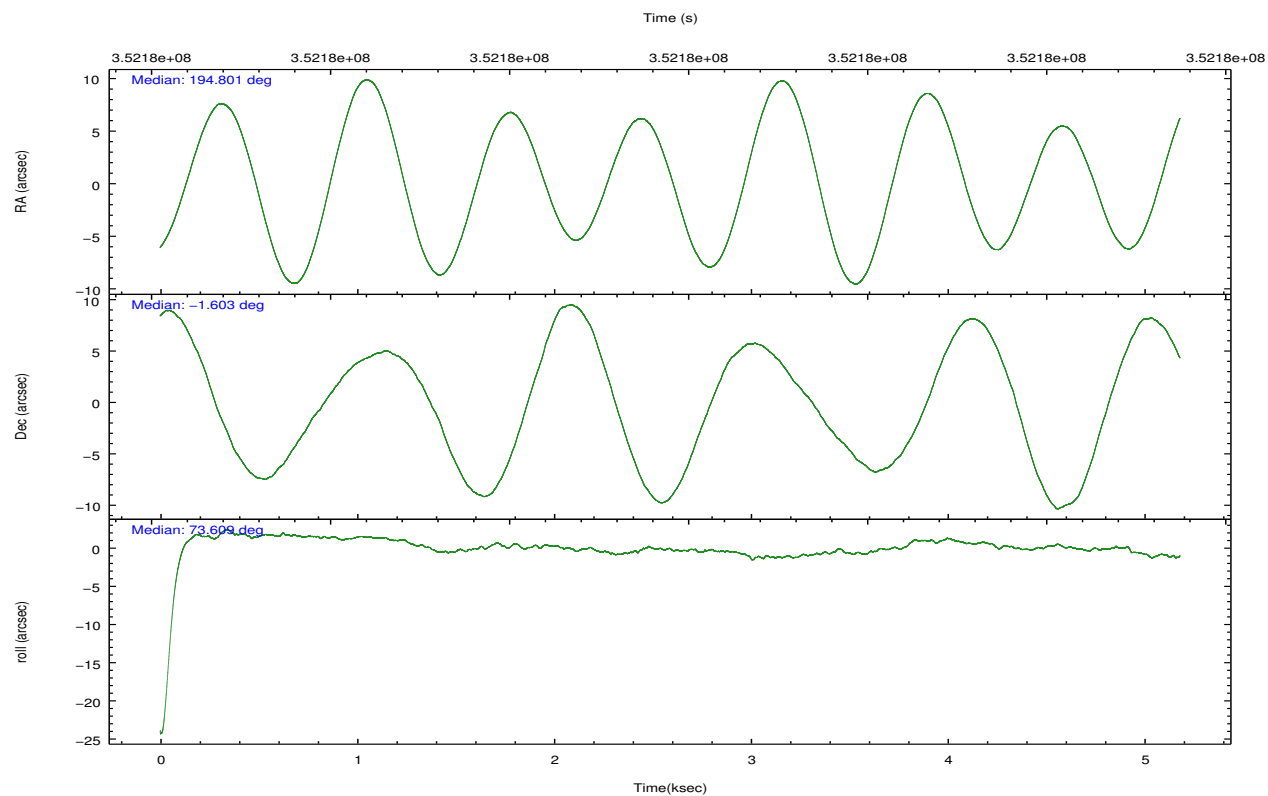
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1515	2941	1497	3226	1460
	4%	7%	3%	7%	3%
grade 1 events	15	217	15	41	26
	0%	0%	0%	0%	0%
grade 2 events	943	997	938	1373	908
	2%	2%	2%	3%	2%
grade 3 events	448	456	429	447	477
	1%	1%	0%	1%	1%
grade 4 events	427	485	413	461	445
	1%	1%	0%	1%	1%
grade 5 events	1475	1631	1402	1643	1692
	3%	4%	3%	3%	4%
grade 6 events	766	937	749	748	929
	2%	2%	1%	1%	2%
grade 7 events	32139	31017	37549	35631	33289
	85%	80%	87%	81%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	194.808084	194.801458994988	CCD I2 on	Y	Y
[deg] Pointing Dec	-1.629684	-1.602899431442766	CCD I3 on	Y	Y
[deg] Pointing Roll	73.400183	73.60869173735733	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	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	352178482.184000	352178106.60902	CCD S5 on	N	N
Observation start date	2009-02-28T03:20:16	2009-02-28T03:15:06	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	352183482.184000	352183616.49679	On-chip summing requested	N	N
Observation end date	2009-02-28T04:43:36	2009-02-28T04:46:56	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



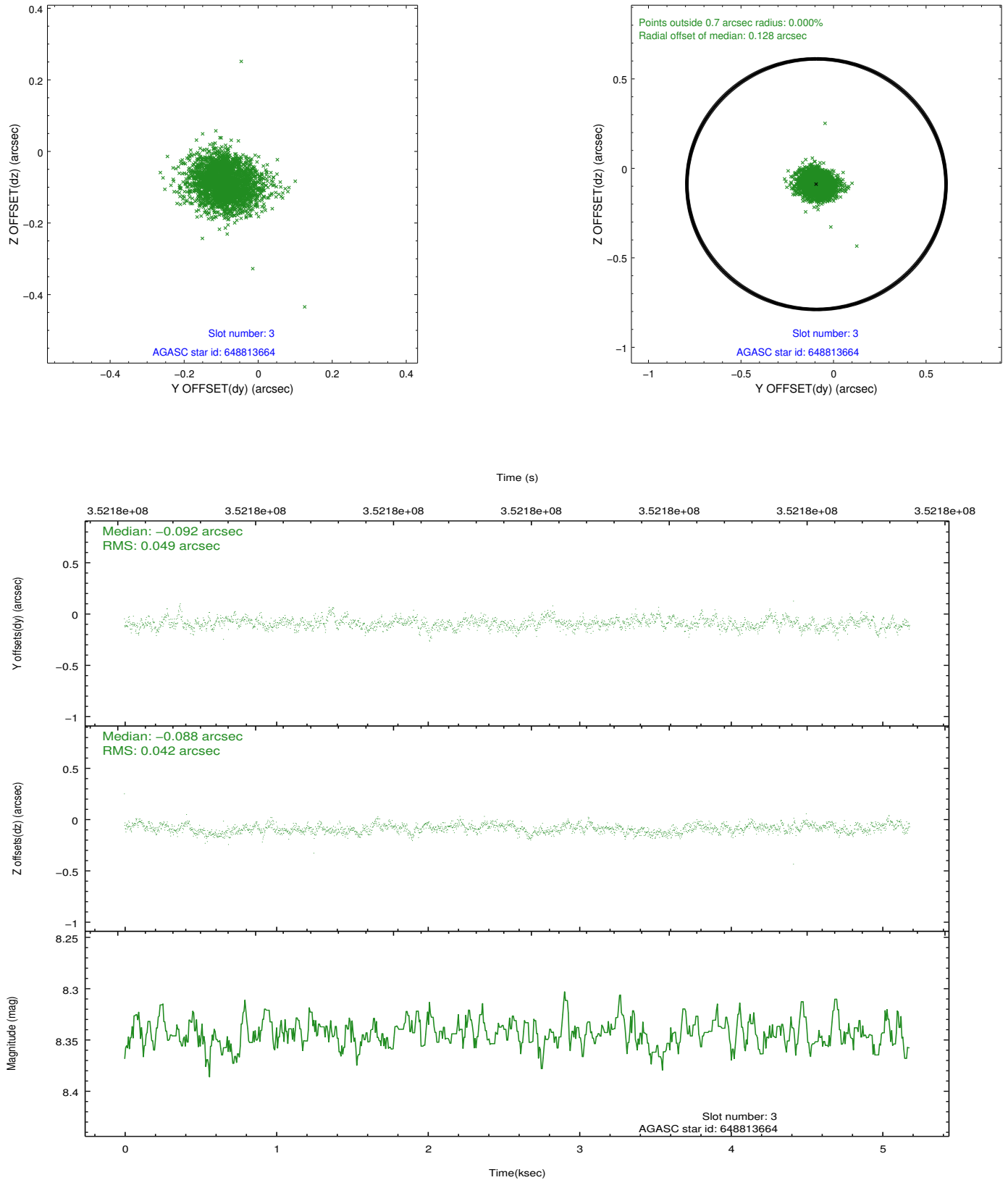


Slot Statistics

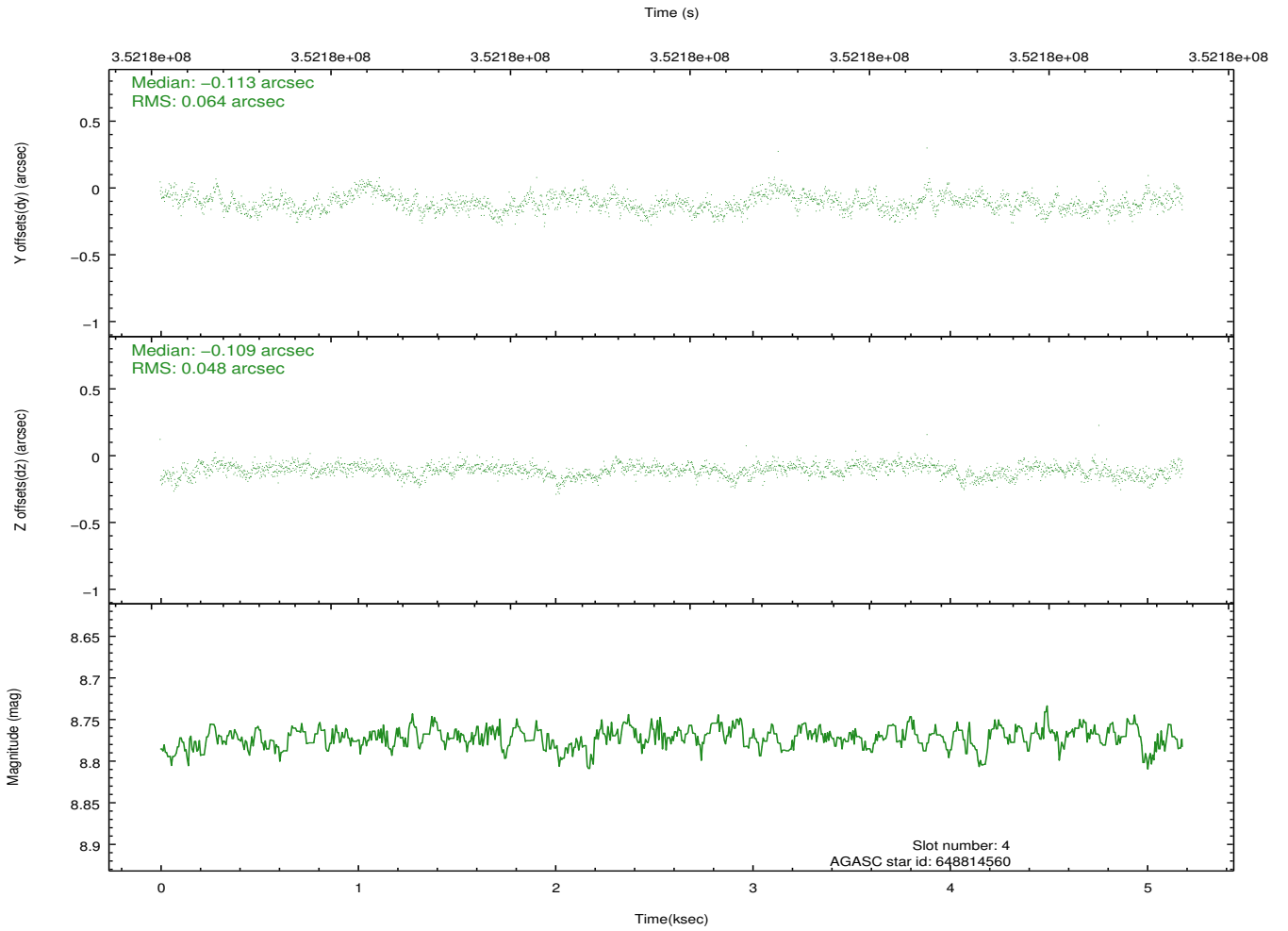
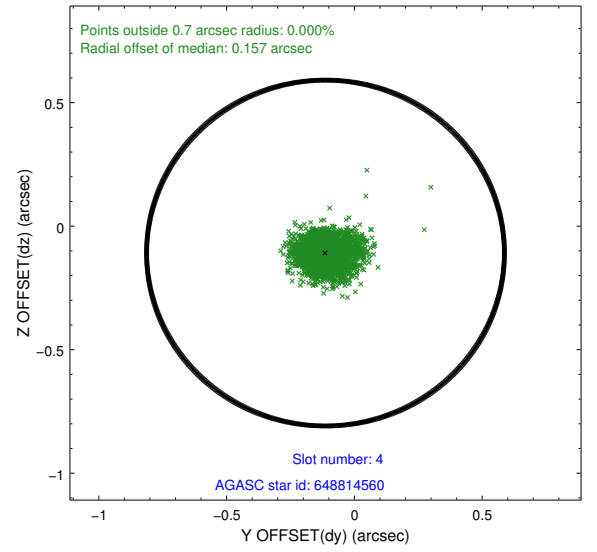
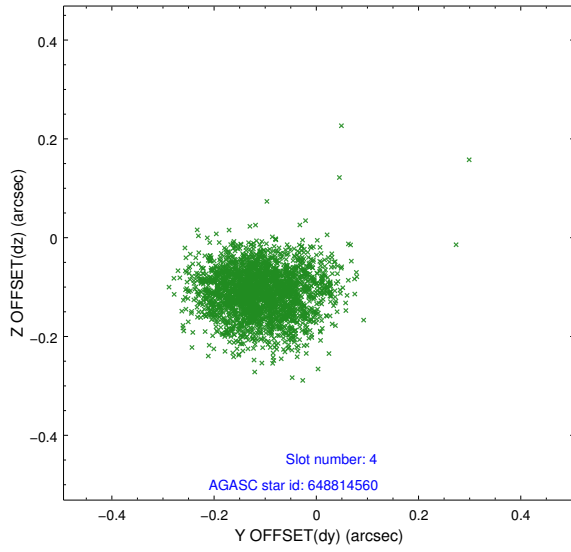
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.10	1264	0.045	-0.003	0.006	0.011	0.000000	0.000000	925.52	-838.12
1	FID	ACIS-I-5	7.09	1264	-0.236	0.044	0.006	0.011	0.000000	0.000000	-1822.25	1058.78
2	FID	ACIS-I-6	7.09	1264	0.100	0.029	0.006	0.011	0.000000	0.000000	389.81	1704.63
3	GUIDE	648813664	8.34	2529	-0.092	-0.088	0.068	0.111	194.615044	-1.051809	1795.01	1260.27
4	GUIDE	648814560	8.77	2527	-0.113	-0.109	0.084	0.139	194.841018	-1.130344	1757.06	400.30
5	GUIDE	648815024	9.83	2525	0.100	-0.030	0.125	0.211	194.110406	-2.056737	-2190.15	1966.26
6	GUIDE	648815800	9.54	2526	0.151	-0.012	0.107	0.174	194.475560	-2.052849	-1802.33	712.19
7	GUIDE	649730488	7.85	2527	-0.049	0.241	0.065	0.110	195.031921	-1.185947	1760.26	-315.31

2.4 Star Slots

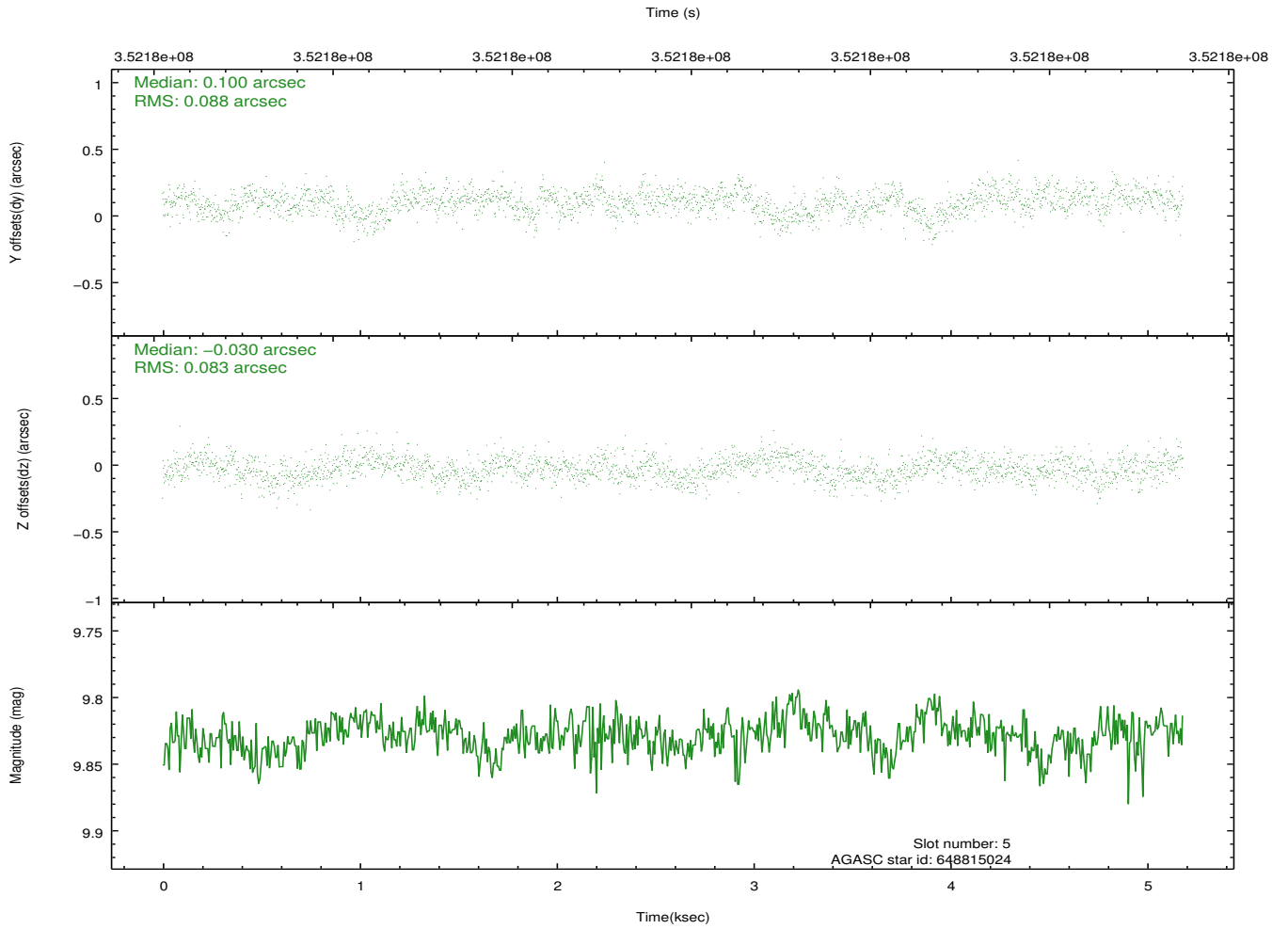
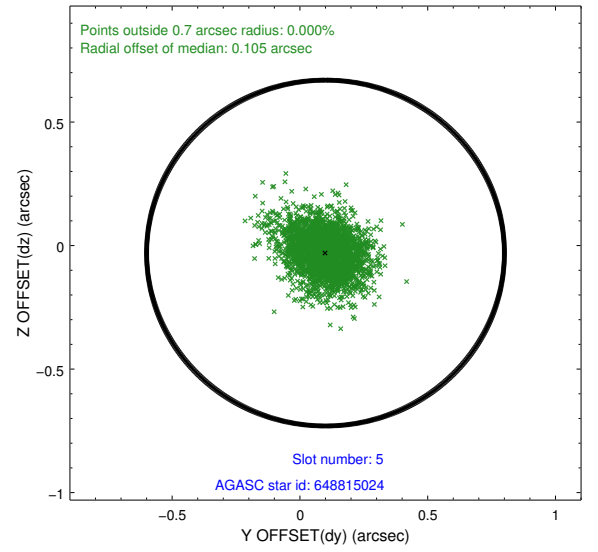
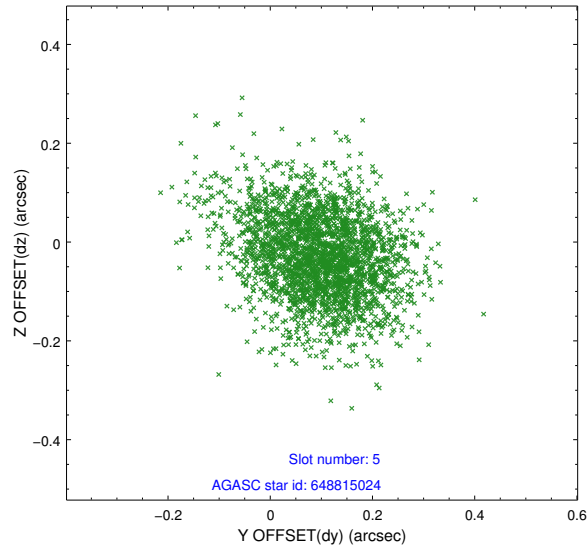
2.4.1 Slot 3



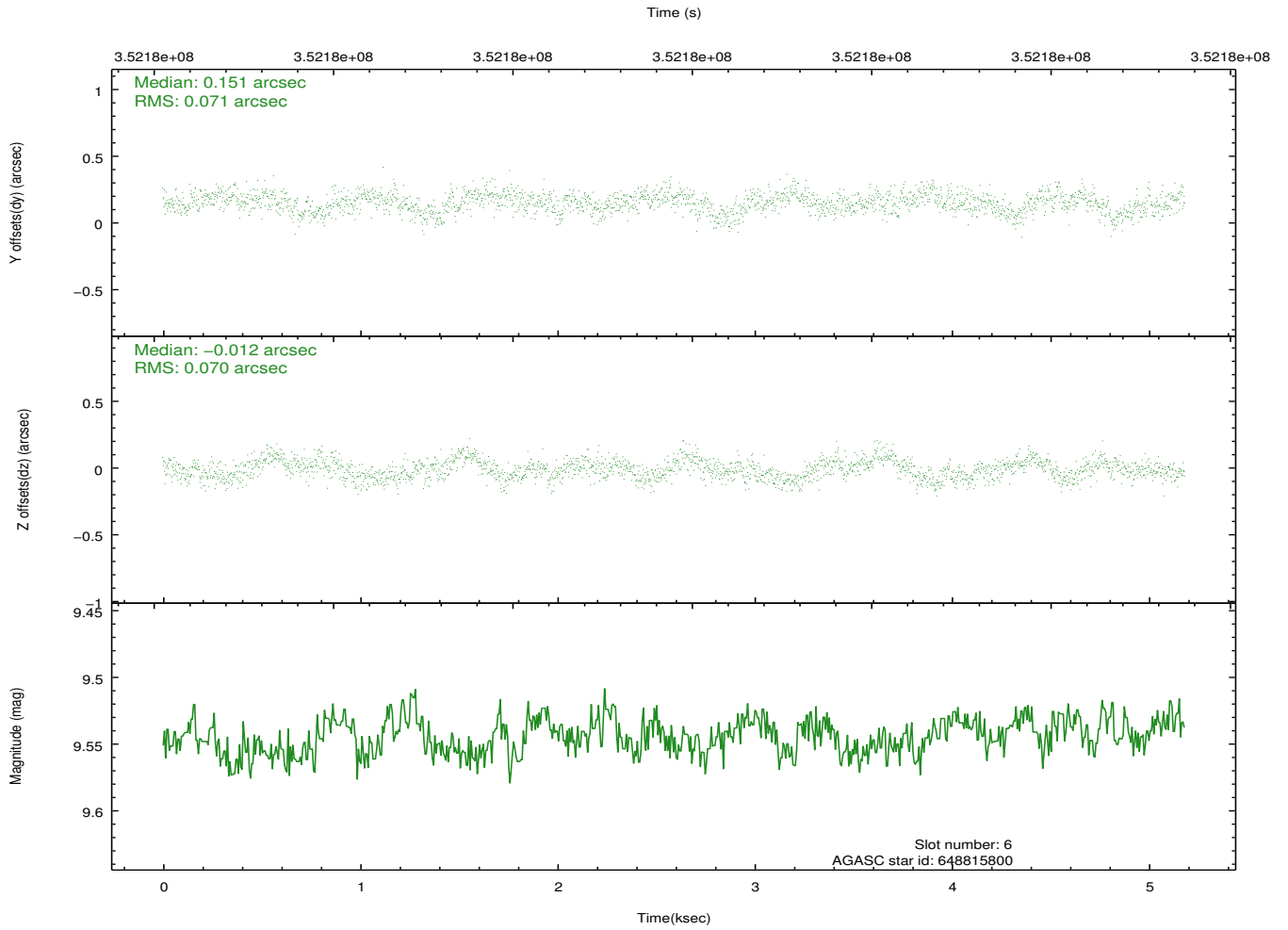
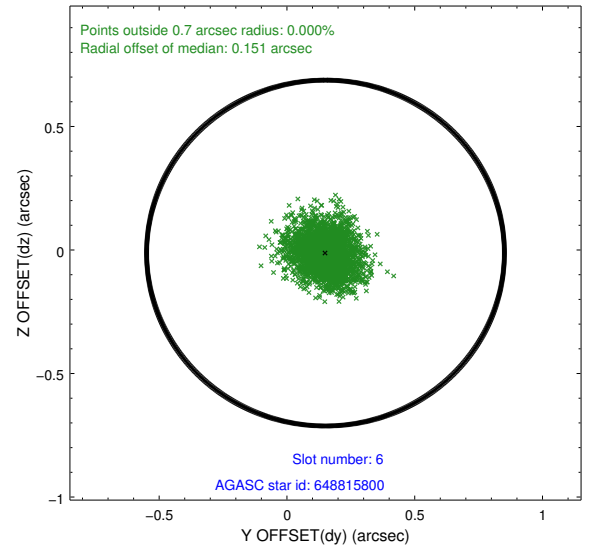
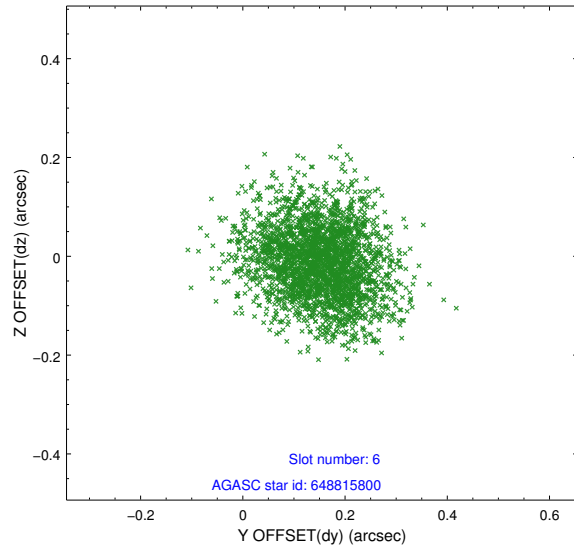
2.4.2 Slot 4



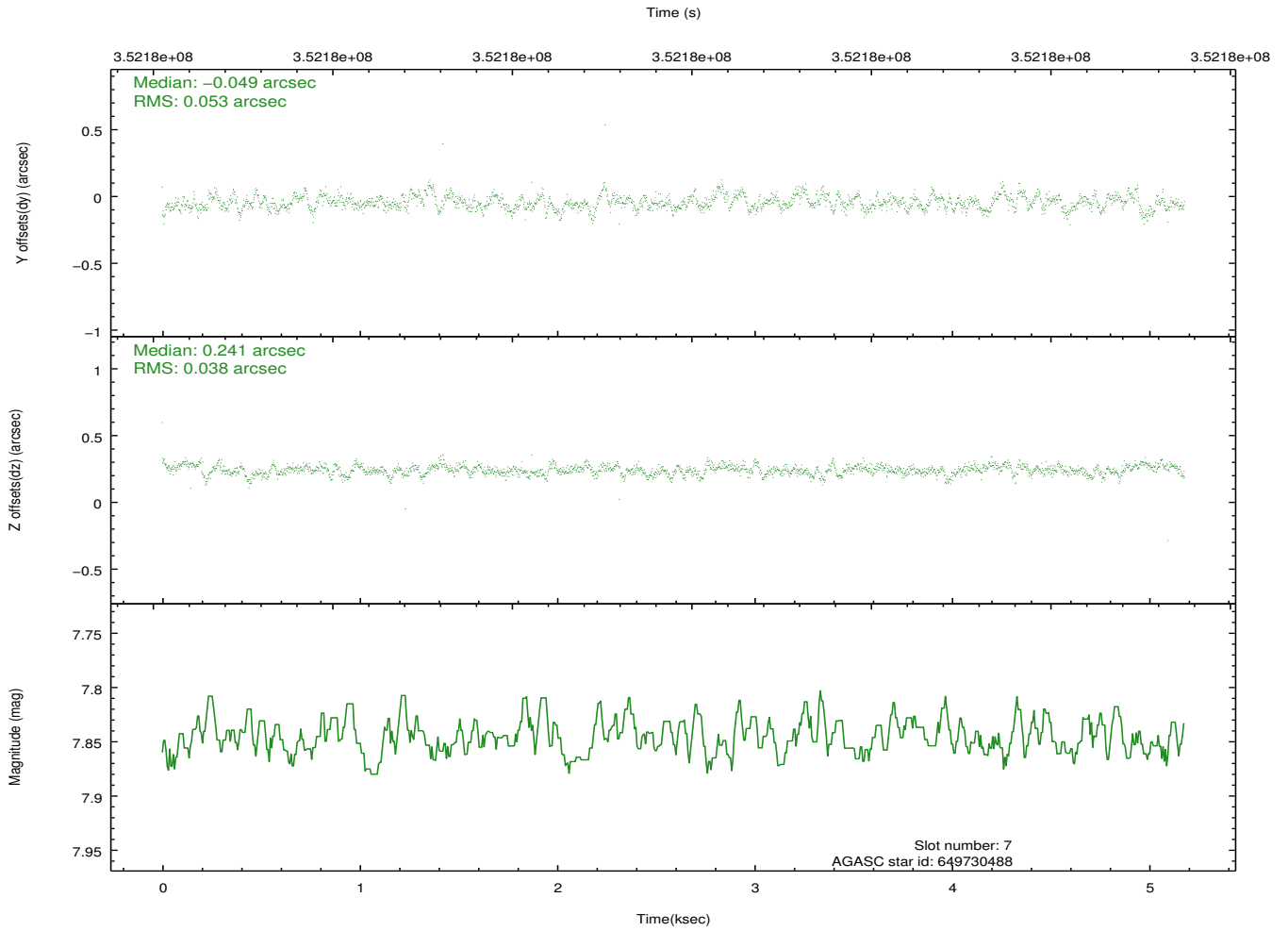
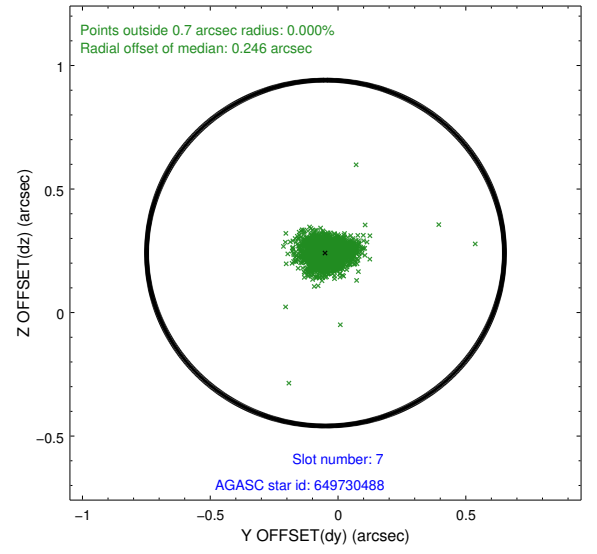
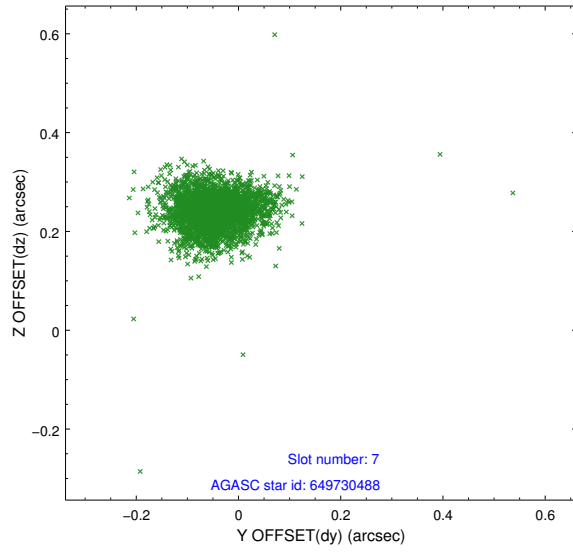
2.4.3 Slot 5



2.4.4 Slot 6

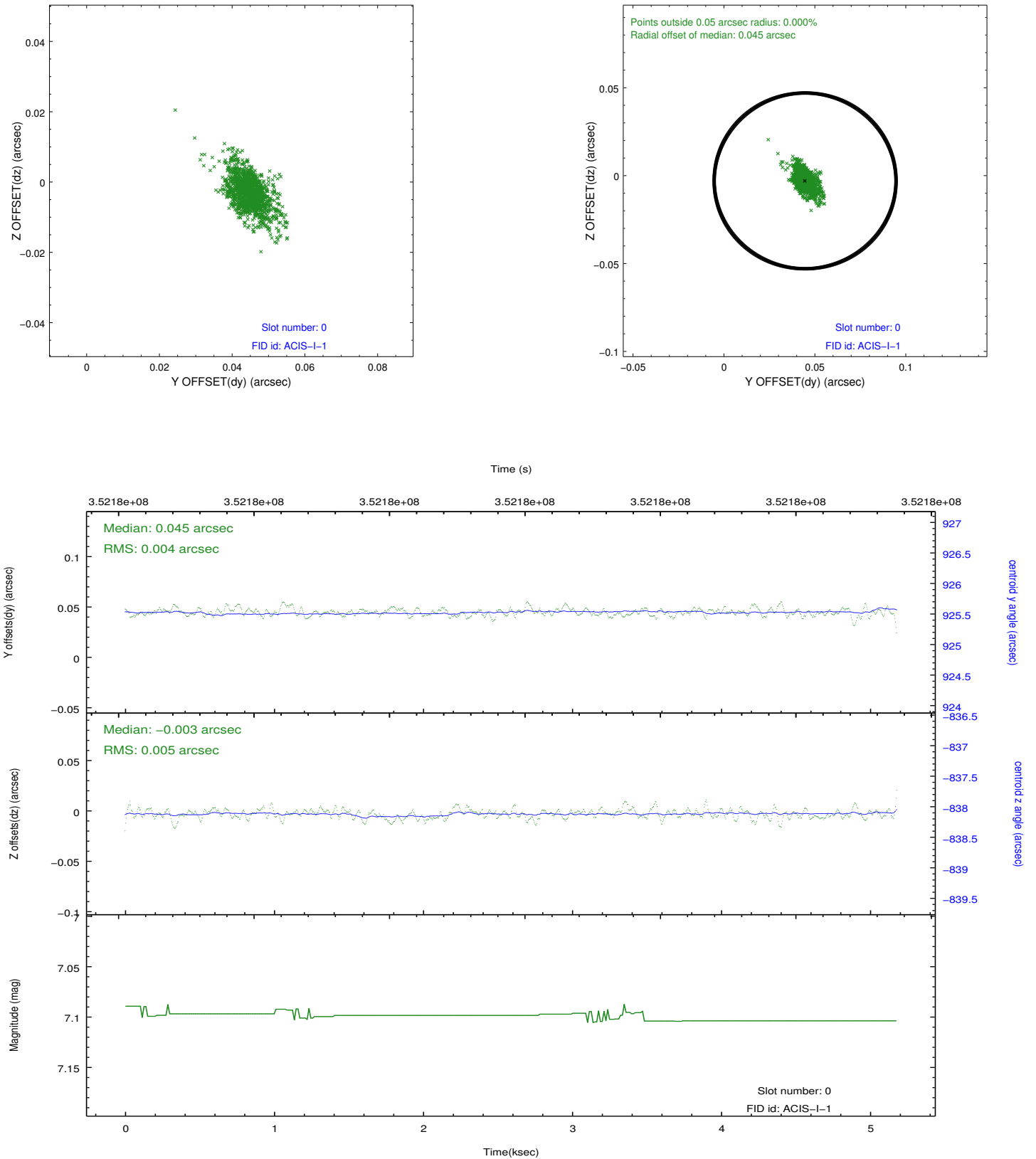


2.4.5 Slot 7

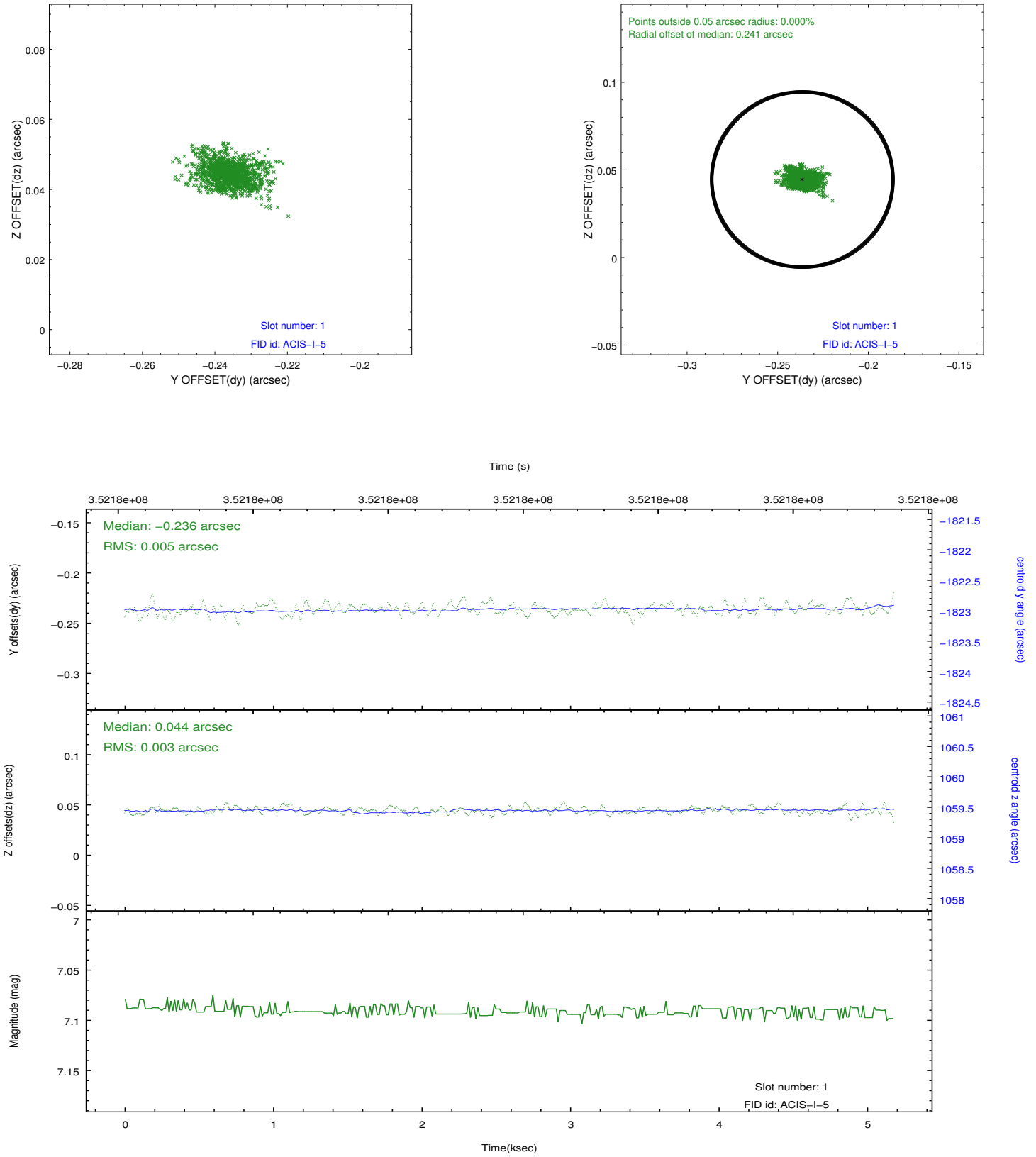


2.5 FID Slots

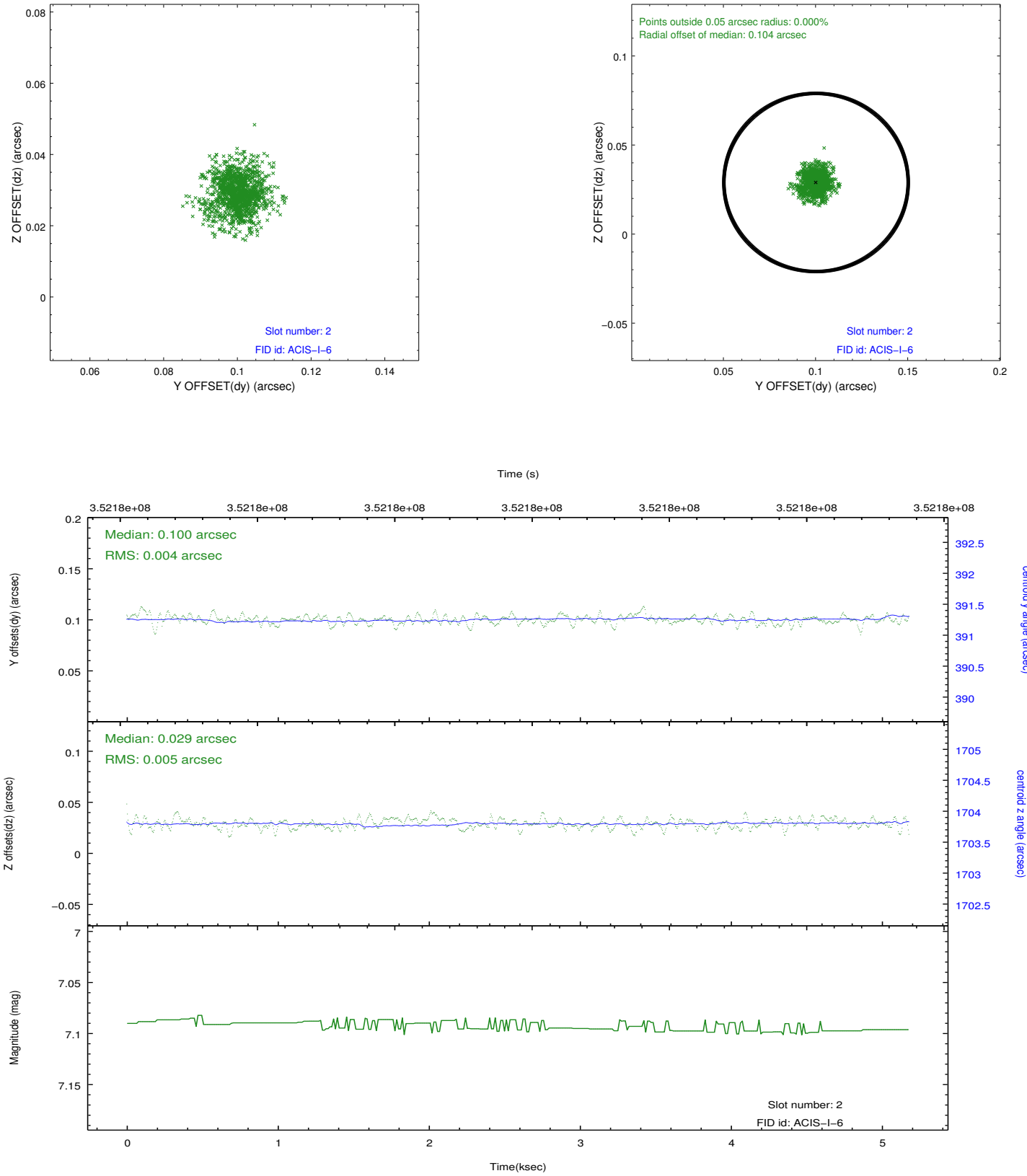
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.77400003

A.2 Comments