

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10435 - L2 Version 3
Chandra X-Ray Center

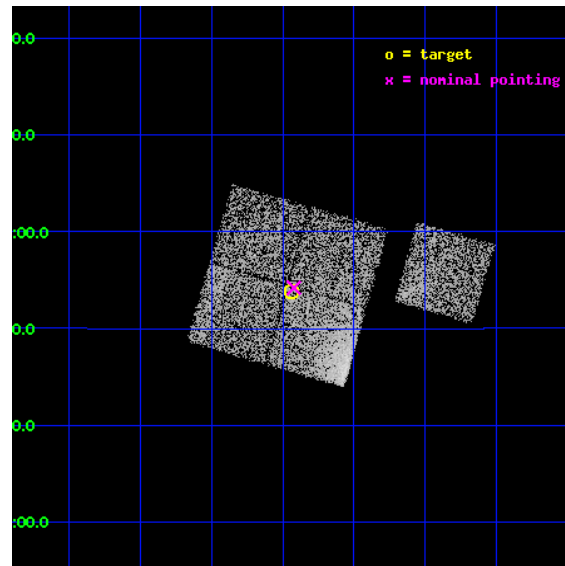
L2 Processing Date : Jun 14 2012

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 4	9
2.4.2	Slot 5	10
2.4.3	Slot 6	11
2.4.4	Slot 7	12
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

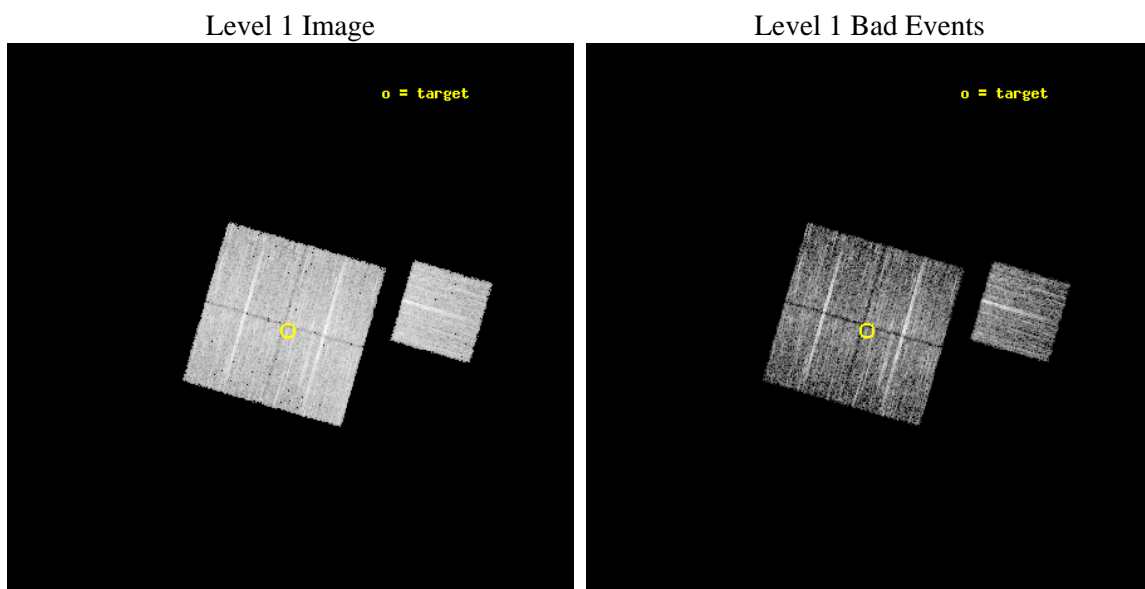
seq_num	800796	Sequence number
obs_id	10435	Observation id
title	A Chandra baseline for galaxy cluster evolution studies	Proposal t
observer	Dr Ben Maughan	Principal investigator
object	A2029	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	227.859892	Observer's specified target RA [deg]
dec_targ	5.896589	Observer's specified target Dec [deg]
ra_nom	227.85542465965	Nominal RA [deg]
dec_nom	5.9033420795722	Nominal Dec [deg]
roll_nom	106.20915144172	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4767.7590463161	Sum of GTIs [s]
livetime	4705.4647644029	Livetime [s]
ontime0	4767.7590264678	Sum of GTIs [s]
ontime1	4770.9000366926	Sum of GTIs [s]
ontime2	4770.9000366926	Sum of GTIs [s]
ontime3	4767.7590463161	Sum of GTIs [s]
ontime6	4770.9000366926	Sum of GTIs [s]
l2events	23126	Number of level 2 events



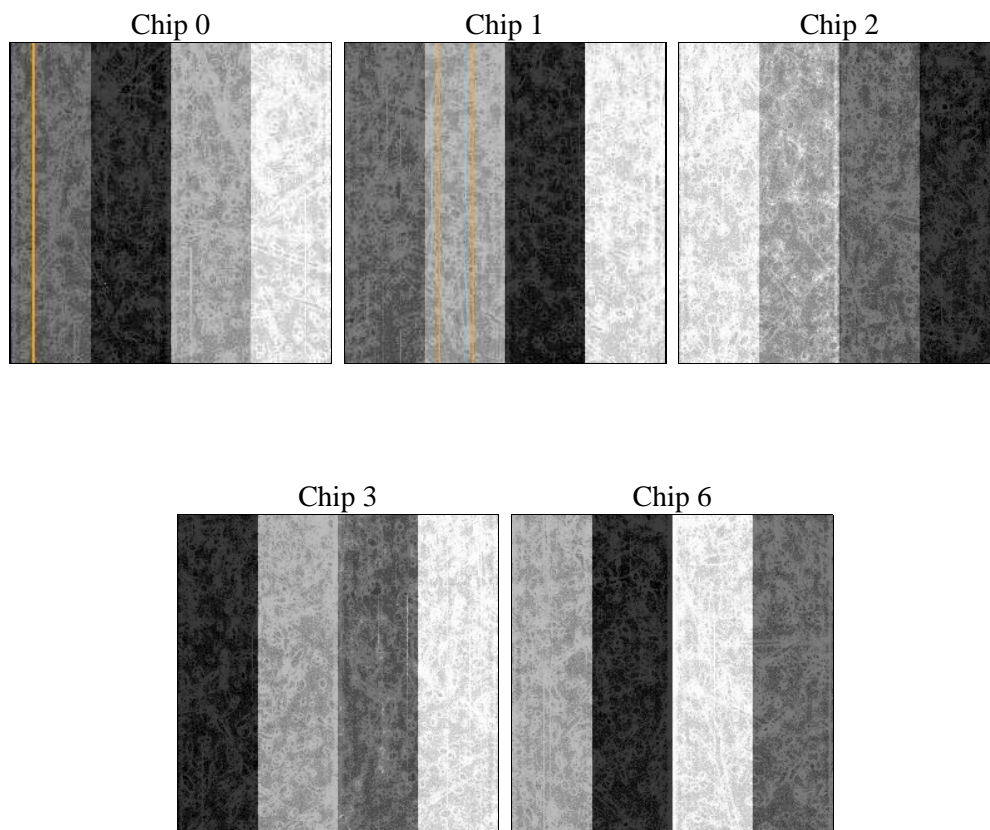
2 OBI

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	8.4.5	Processing system revision	ontime	4767.7590463161	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	4767.7590264678	Sum of GTIs [s]
date	2012-06-14T14:38:53	Date and time of file creation	ontime1	4770.9000366926	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4770.9000366926	Sum of GTIs [s]
			ontime3	4767.7590463161	Sum of GTIs [s]
			ontime6	4770.9000366926	Sum of GTIs [s]
			l1events	210811	Number of level 1 events

2.1.4 Events

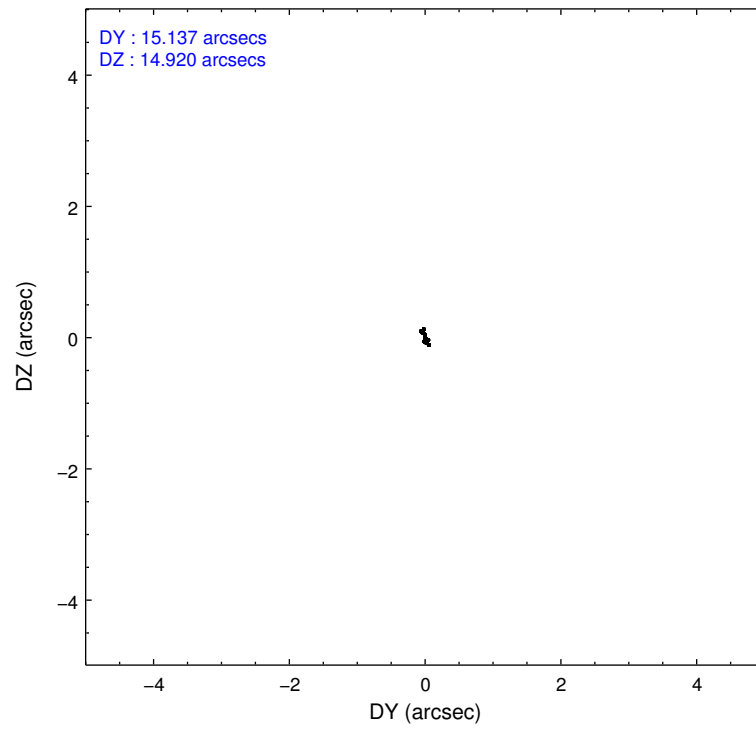
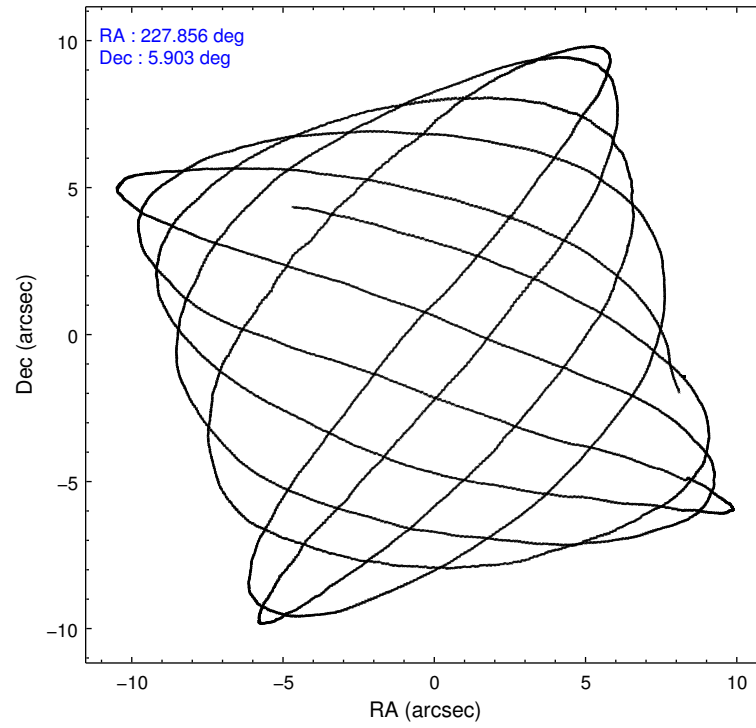
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	38861	40101	43935	45198	42716
rejected events	34480	35021	39147	37177	38138
rejected %	88%	87%	89%	82%	89%

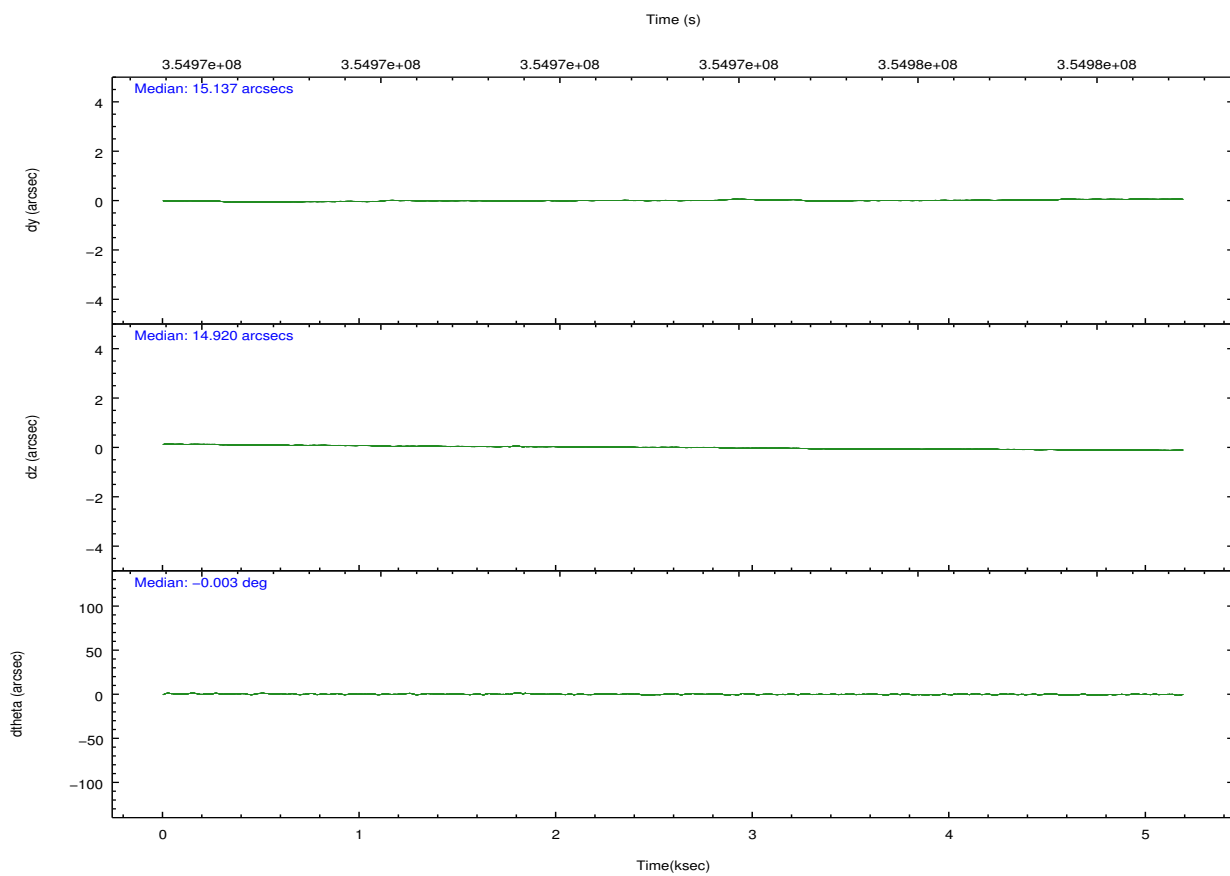
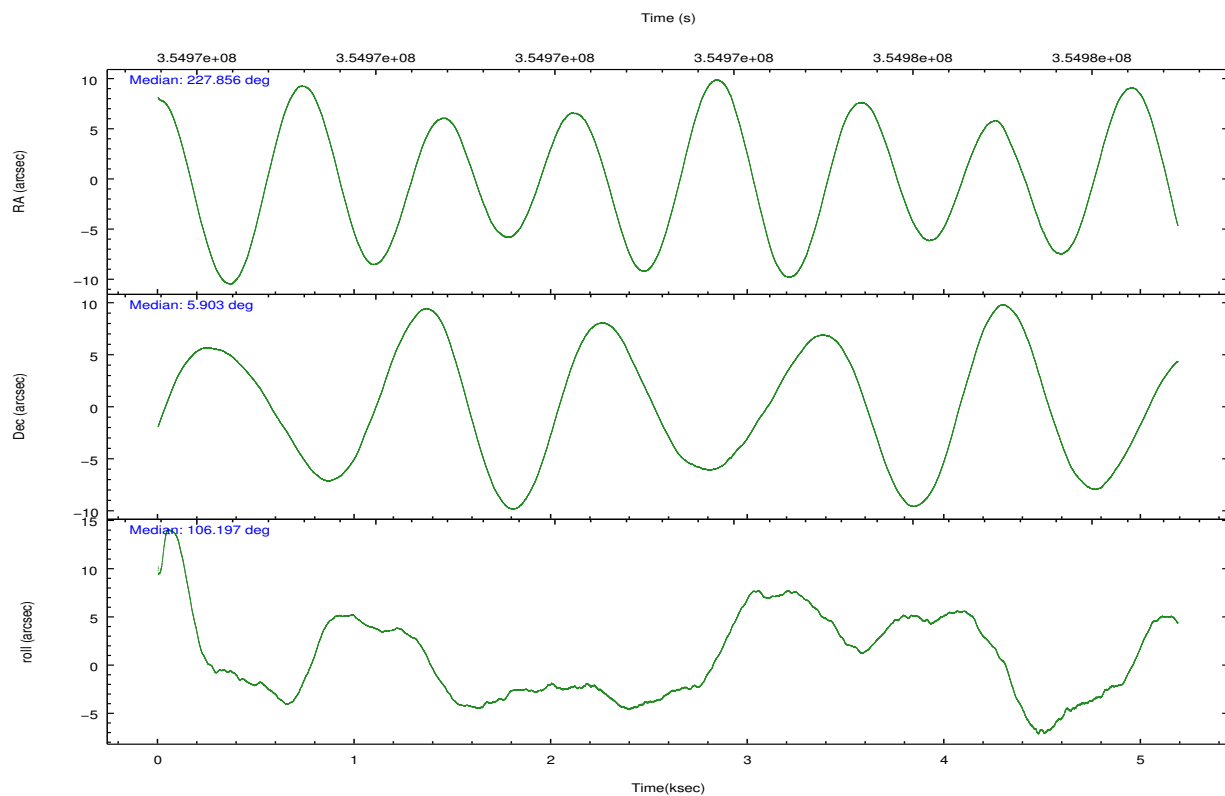
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1652	2002	2049	4554	1832
	4%	4%	4%	10%	4%
grade 1 events	34	24	34	35	26
	0%	0%	0%	0%	0%
grade 2 events	1033	1102	996	1280	958
	2%	2%	2%	2%	2%
grade 3 events	443	522	477	606	442
	1%	1%	1%	1%	1%
grade 4 events	448	502	476	598	427
	1%	1%	1%	1%	0%
grade 5 events	1521	1603	1429	1775	1670
	3%	3%	3%	3%	3%
grade 6 events	811	959	797	993	923
	2%	2%	1%	2%	2%
grade 7 events	32919	33387	37677	35357	36438
	84%	83%	85%	78%	85%

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	227.875436	227.8554246596452	CCD I2 on	Y	Y
[deg] Pointing Dec	5.884378	5.903342079572196	CCD I3 on	Y	Y
[deg] Pointing Roll	105.998408	106.2091514417209	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)	354971230.184000	354970847.37277	CCD S5 on	N	N
Observation start date	2009-04-01T11:06:04	2009-04-01T11:00:47	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	354976230.184000	354976373.66054	On-chip summing requested	N	N
Observation end date	2009-04-01T12:29:24	2009-04-01T12:32:53	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



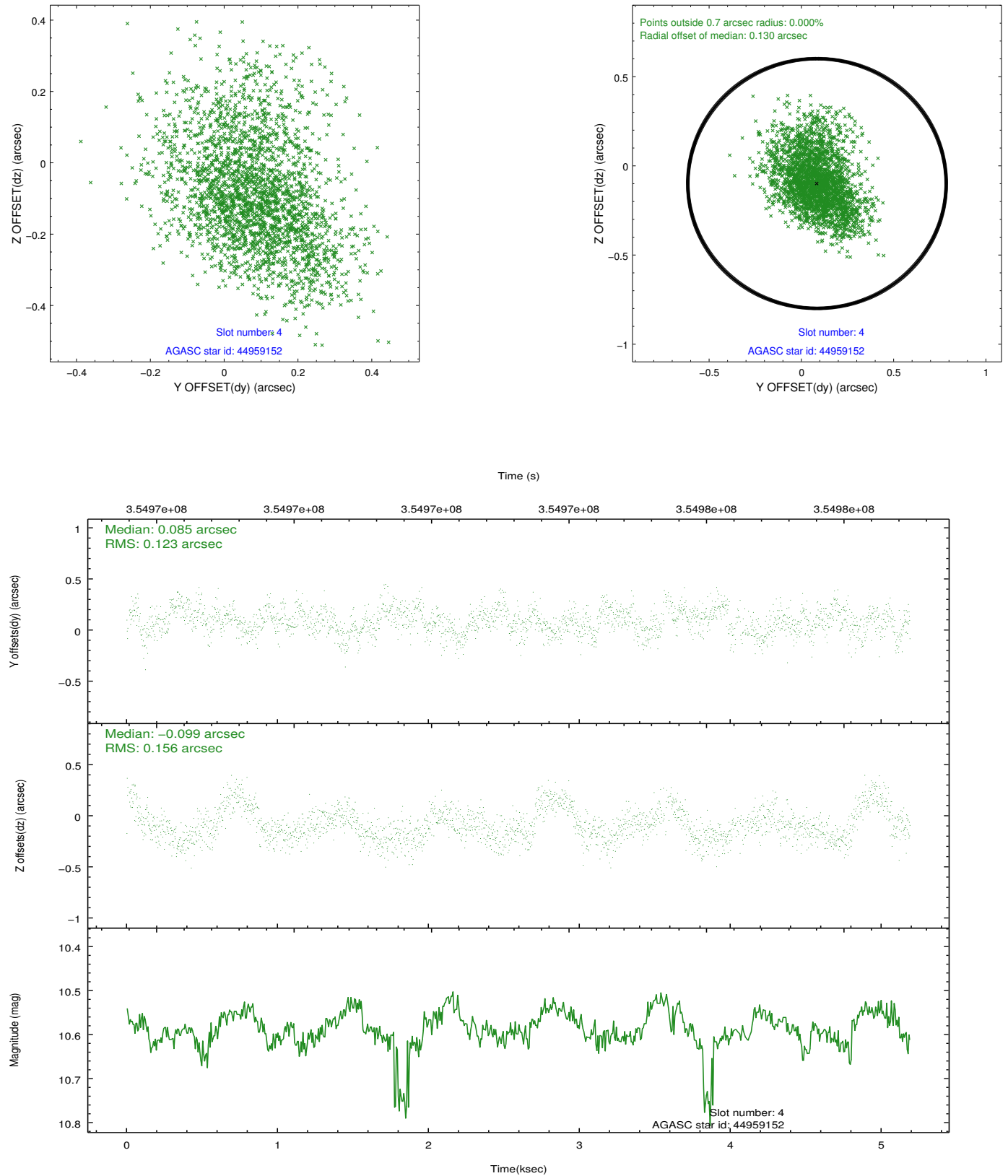


Slot Statistics

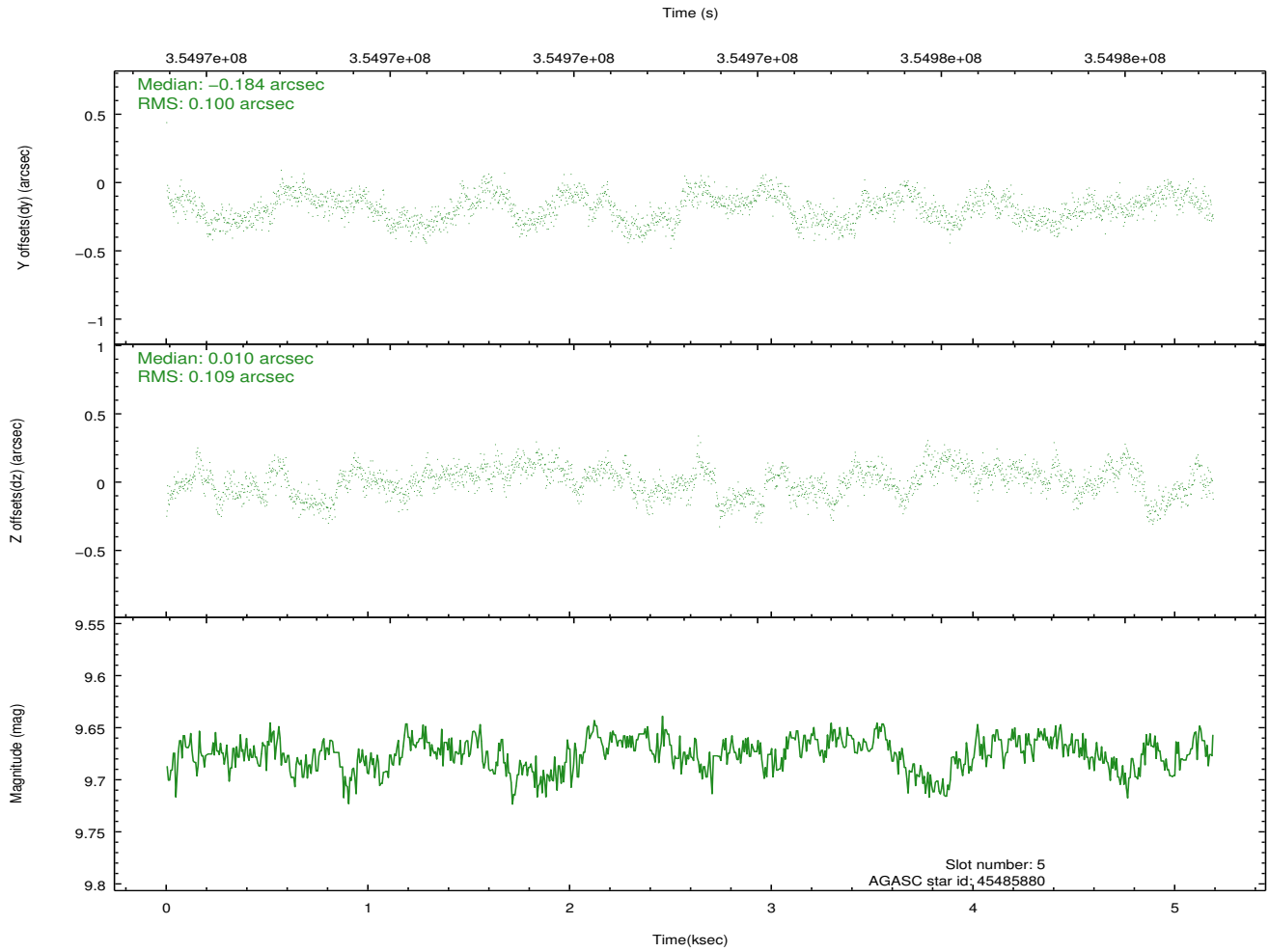
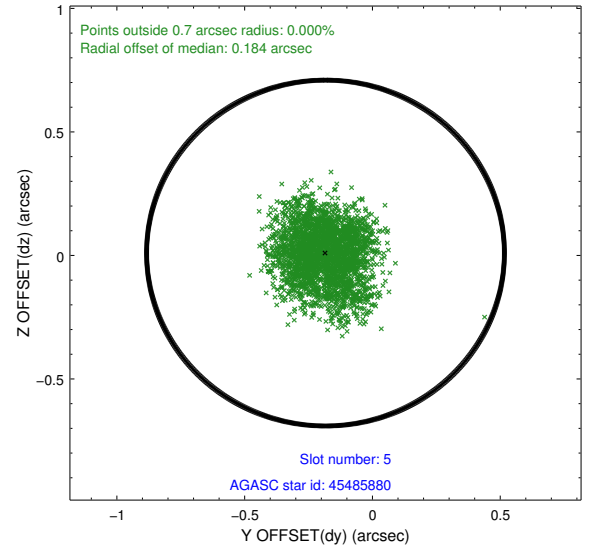
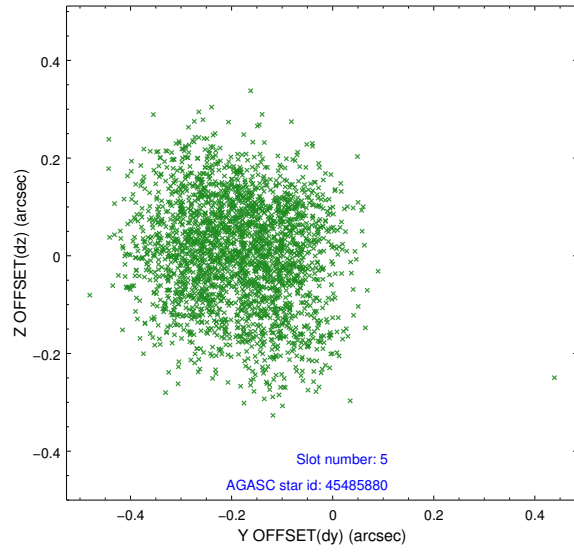
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	6.98	1266	0.020	0.016	0.007	0.012	0.000000	0.000000	924.35	-838.49
1	FID	ACIS-I-5	6.97	1266	-0.202	0.030	0.006	0.010	0.000000	0.000000	-1823.36	1058.40
2	FID	ACIS-I-6	6.98	1266	0.091	0.024	0.007	0.013	0.000000	0.000000	388.66	1704.25
3	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
4	GUIDE	44959152	10.59	2486	0.085	-0.099	0.211	0.352	227.413679	5.123161	-2177.53	2346.54
5	GUIDE	45485880	9.68	2525	-0.184	0.010	0.161	0.247	228.190636	6.293142	1103.50	-1488.07
6	GUIDE	45489832	9.76	2528	0.017	0.074	0.149	0.236	228.405822	6.486999	1564.67	-2421.82
7	GUIDE	45483400	9.61	2529	0.082	0.005	0.147	0.243	228.040804	6.636037	2439.51	-1314.06

2.4 Star Slots

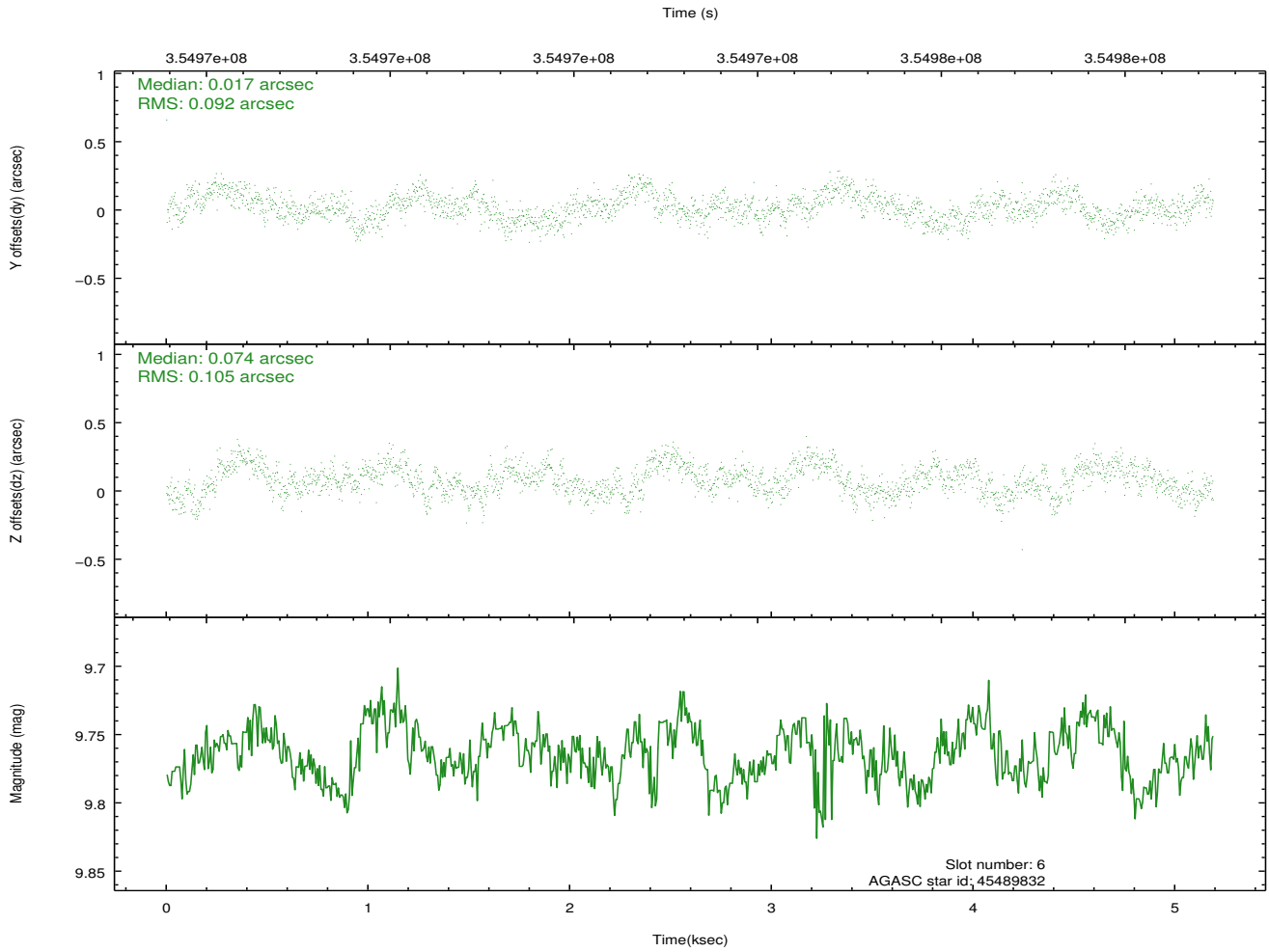
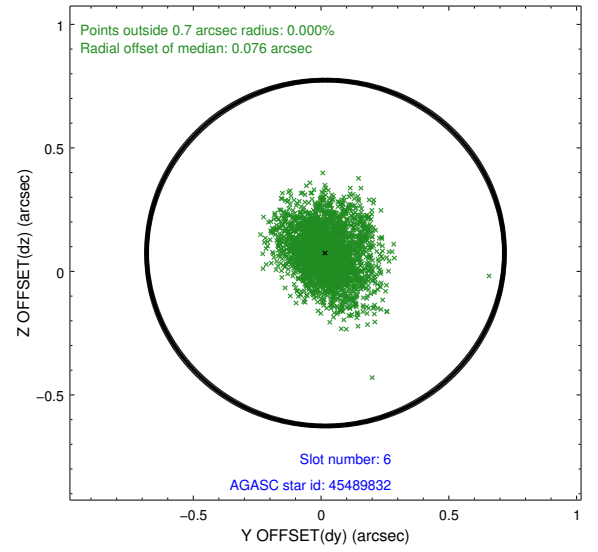
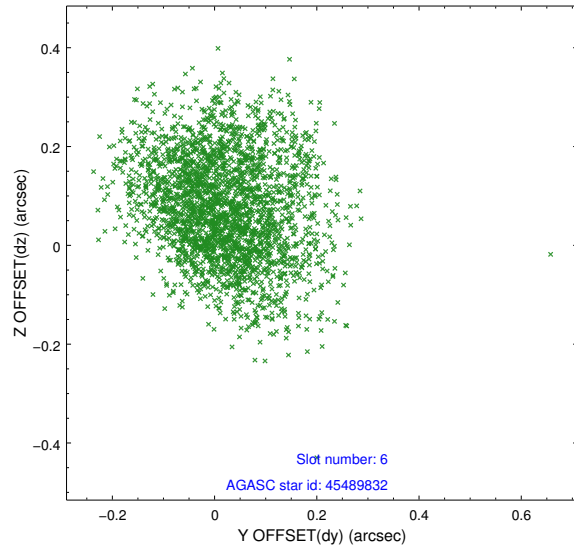
2.4.1 Slot 4



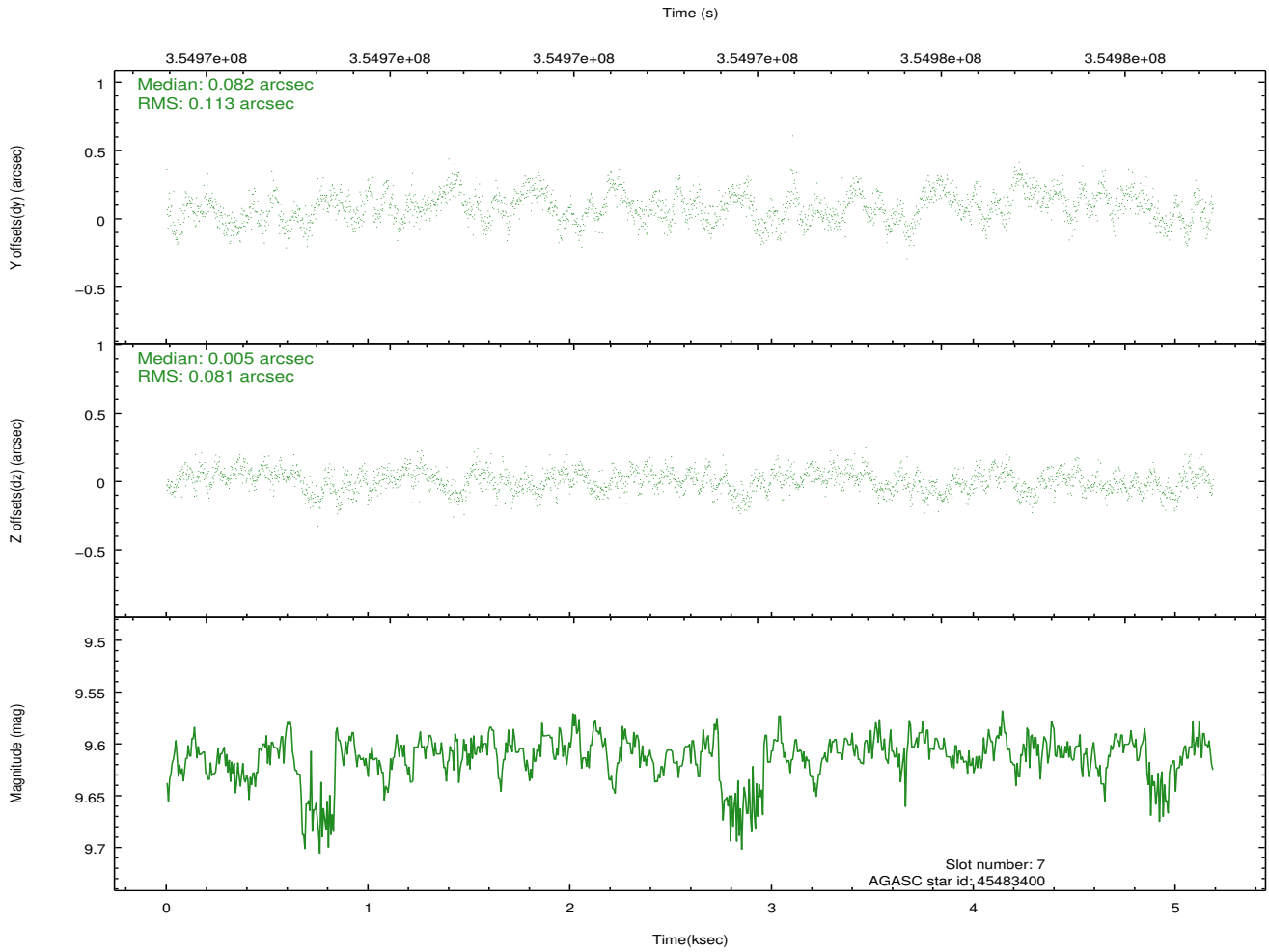
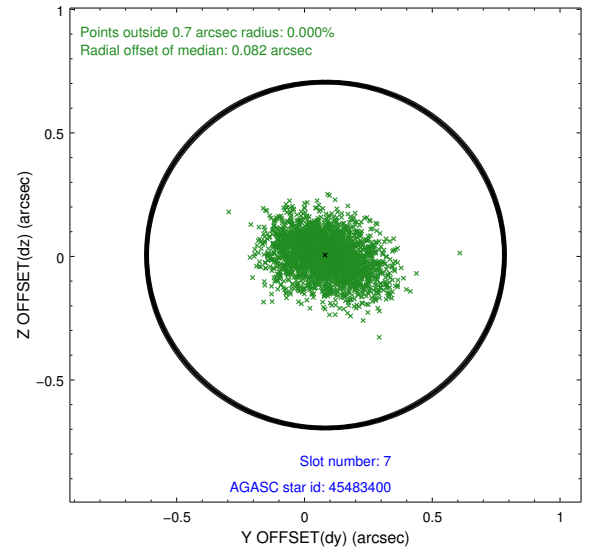
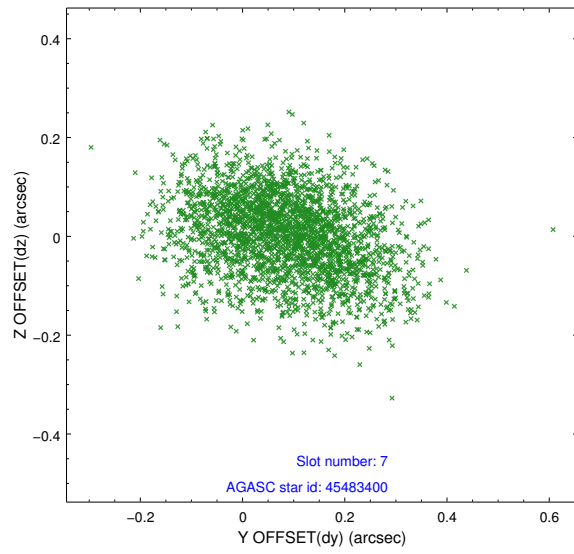
2.4.2 Slot 5



2.4.3 Slot 6

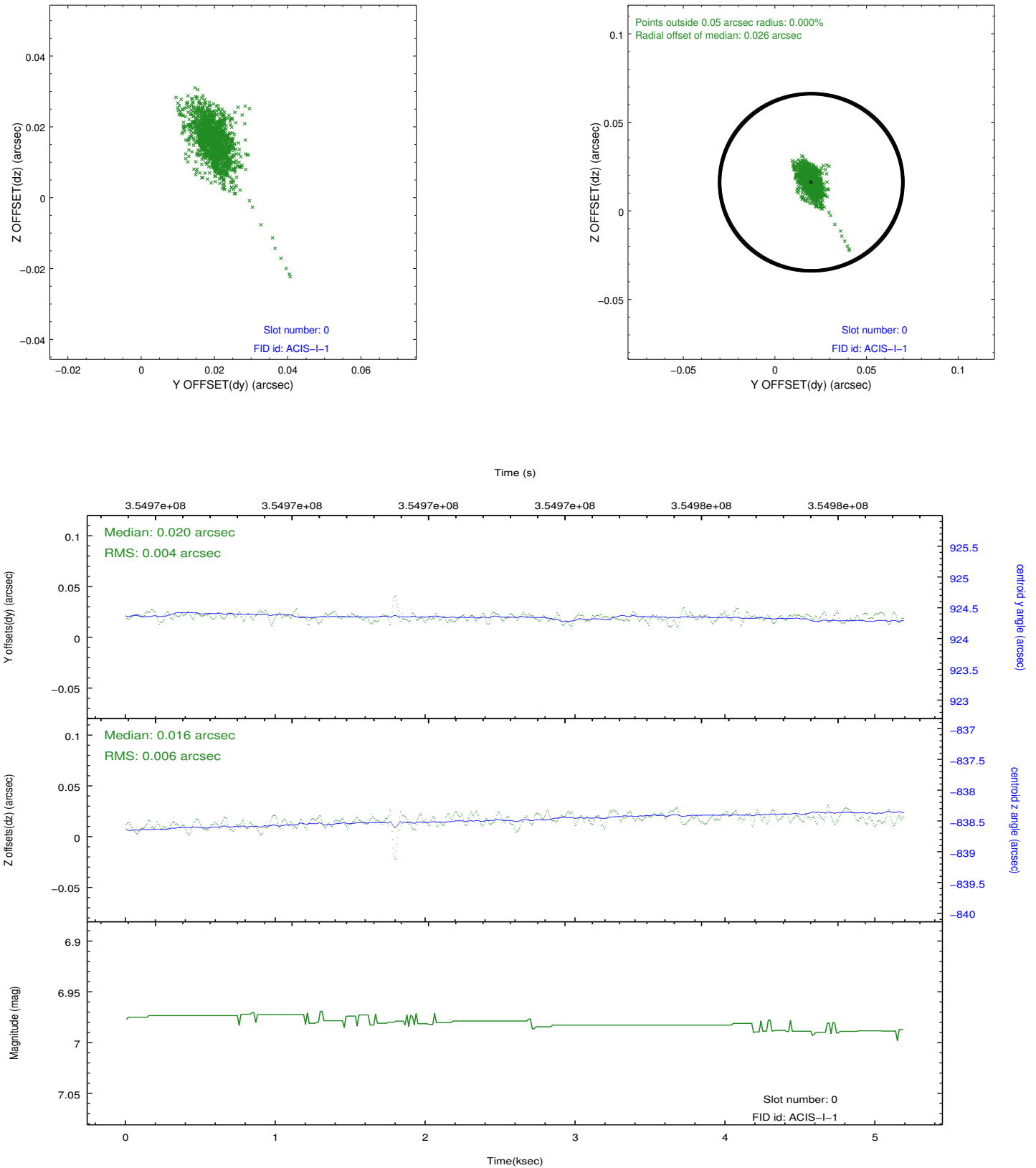


2.4.4 Slot 7

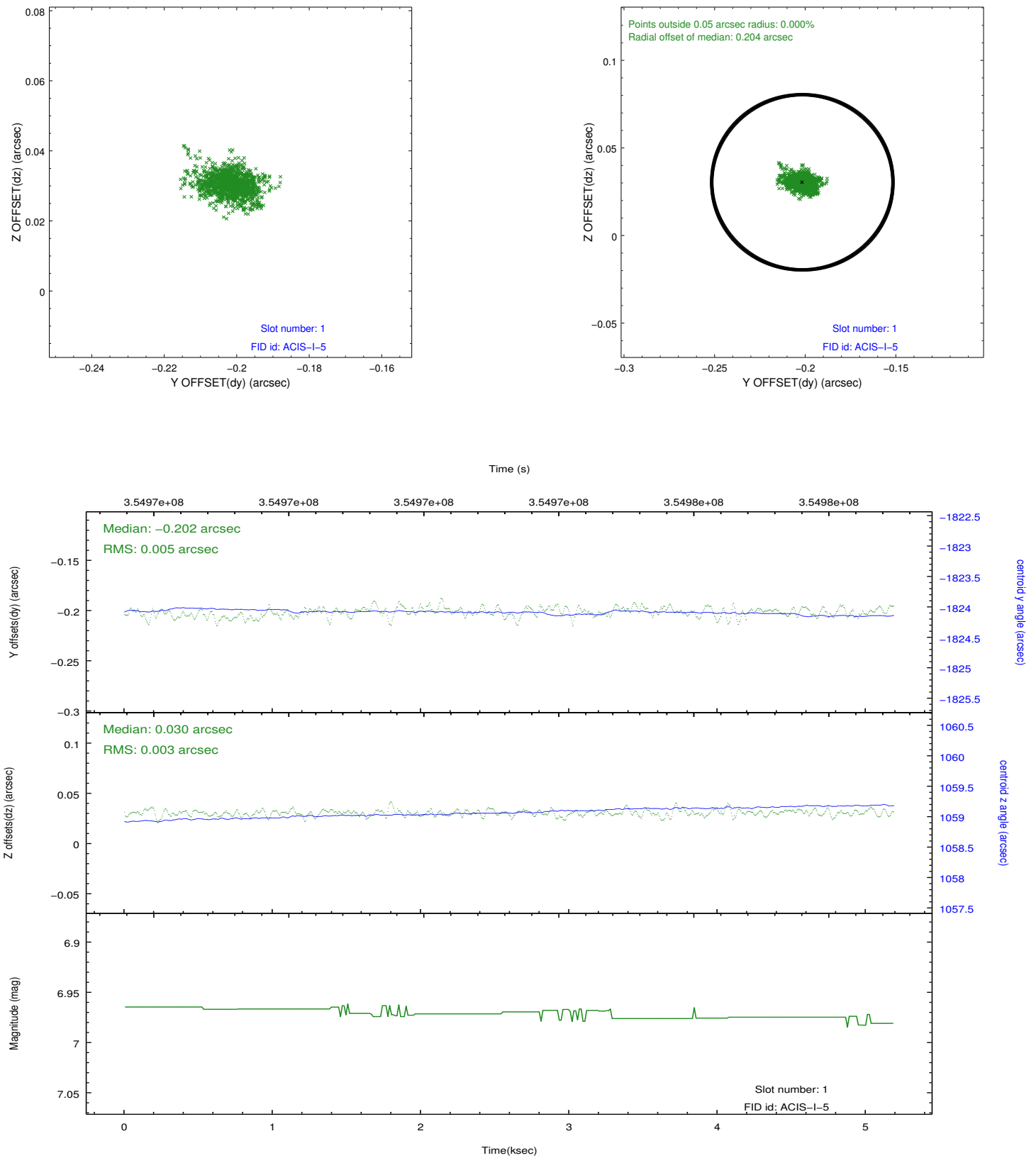


2.5 FID Slots

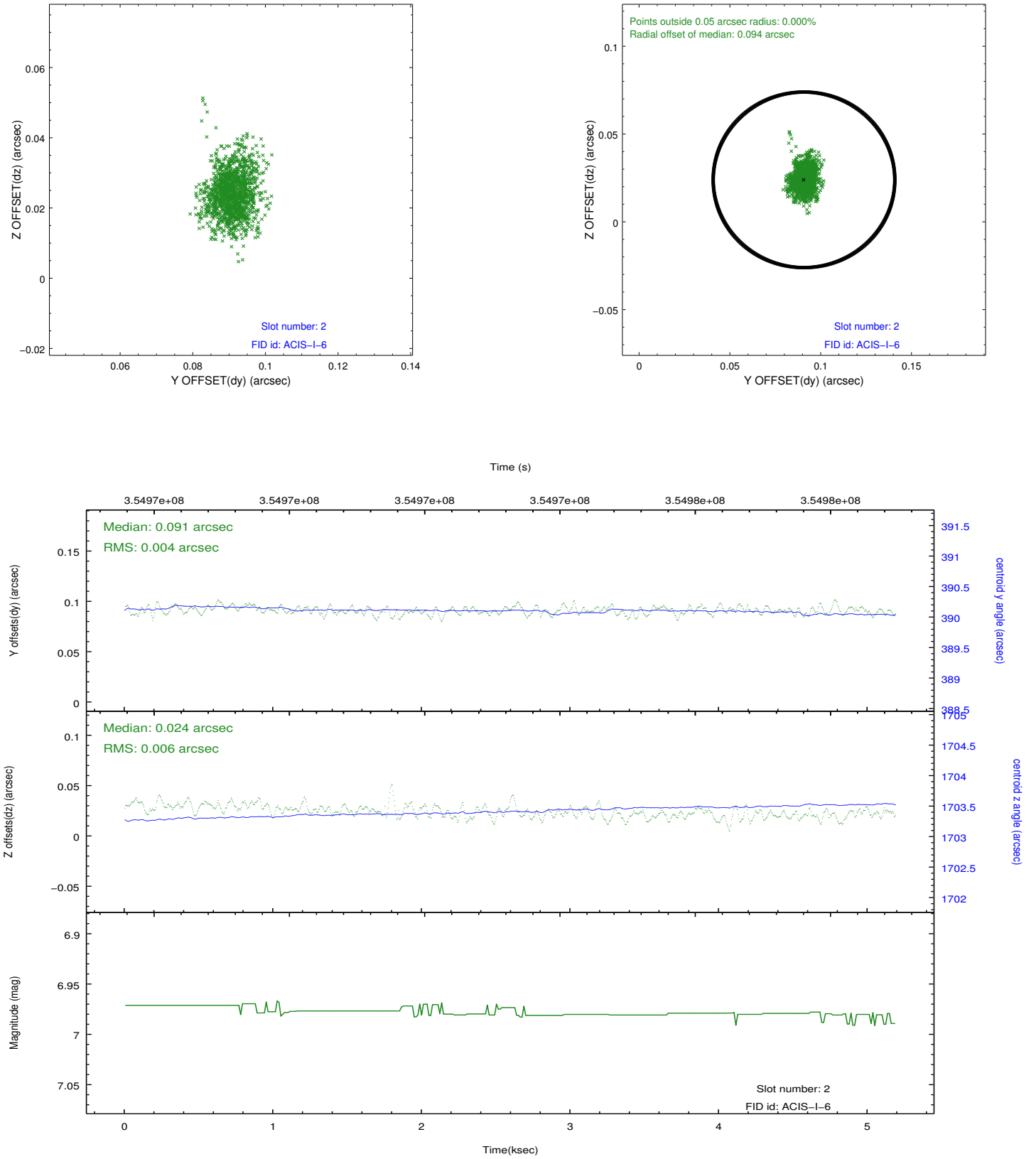
2.5.1 Slot 0



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)	2012.06.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.76775904

A.2 Comments

The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.