

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 16995 - L2 Version 1
Chandra X-Ray Center

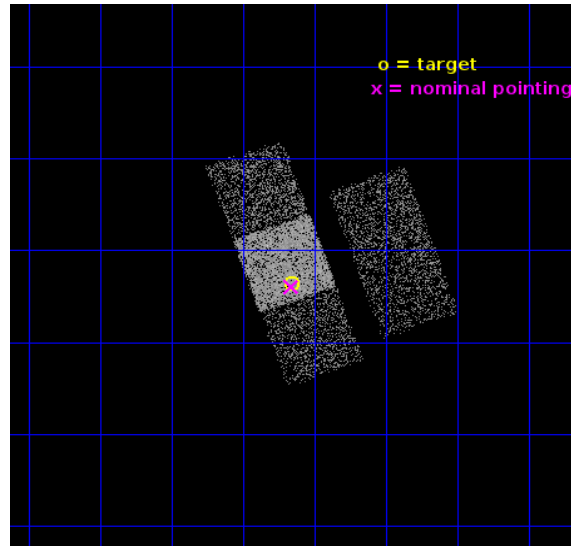
L2 Processing Date : Jul 27 2015

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

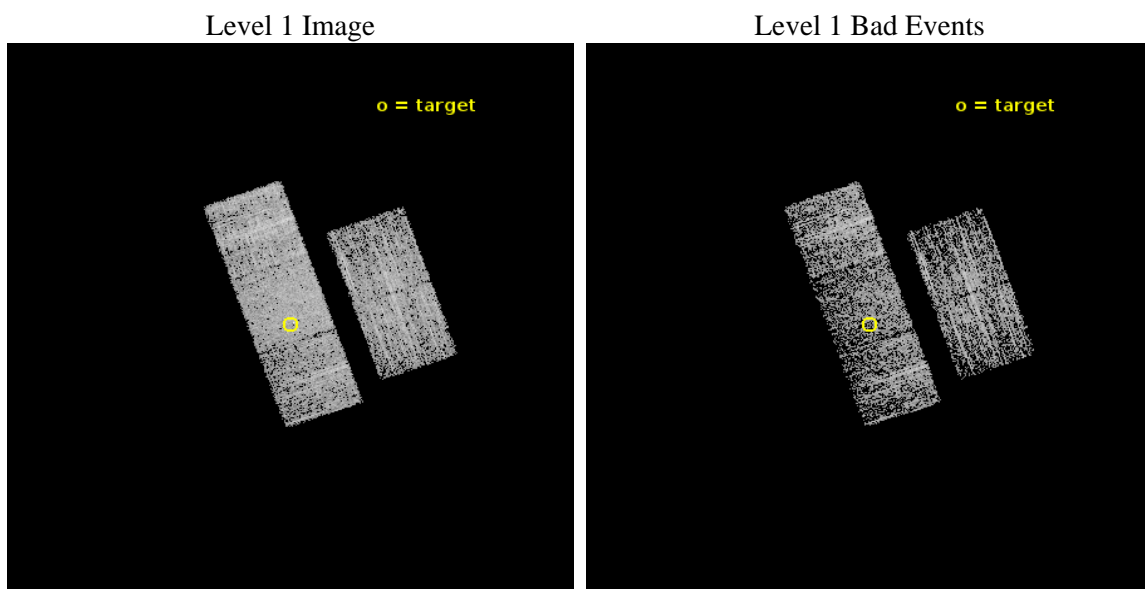
seq_num	601188	Sequence number
obs_id	16995	Observation id
title	Super-massive black holes and nuclear star clusters in late type galaxies	Proposal title
observer	Elena Gallo	Principal investigator
object	NGC4496A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.913333	Observer's specified target RA [deg]
dec_targ	3.939444	Observer's specified target Dec [deg]
ra_nom	187.91504948856	Nominal RA [deg]
dec_nom	3.9343089978731	Nominal Dec [deg]
roll_nom	250.36092712191	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2752.8000212908	Sum of GTIs [s]
livetime	2716.8326624307	Livetime [s]
ontime2	2752.8000212908	Sum of GTIs [s]
ontime3	2752.8000212908	Sum of GTIs [s]
ontime6	2752.8000212908	Sum of GTIs [s]
ontime7	2752.8000212908	Sum of GTIs [s]
ontime8	2743.3771301508	Sum of GTIs [s]
l2events	13955	Number of level 2 events



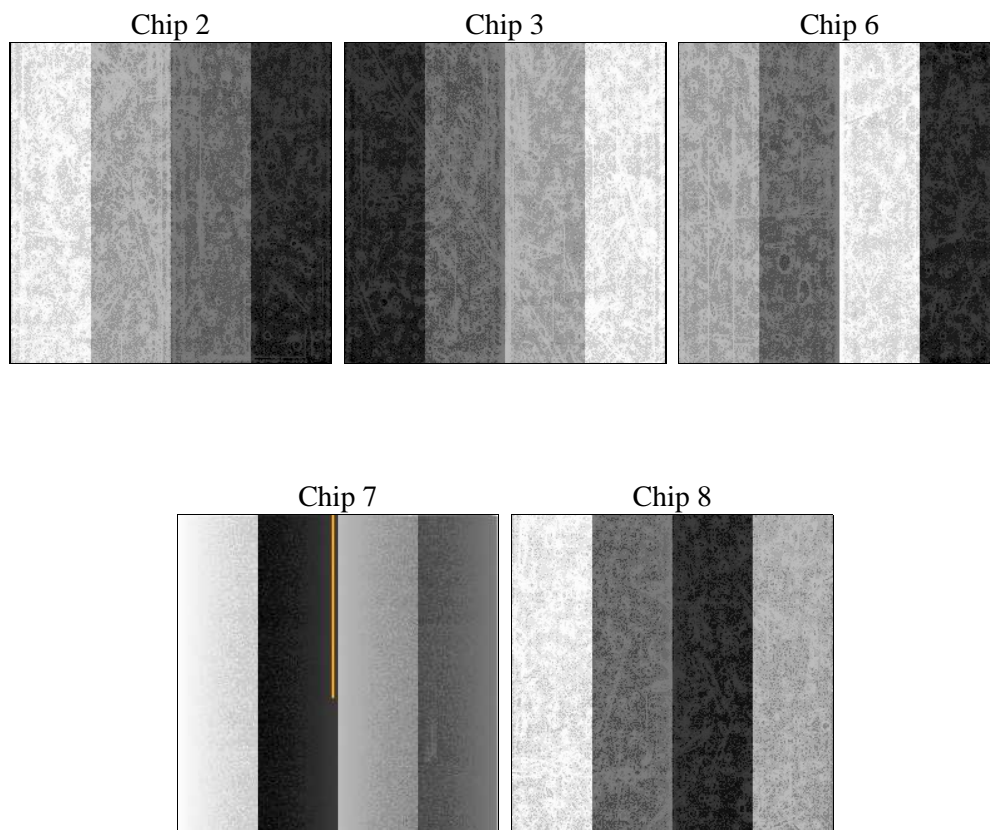
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2980.000000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	2752.8000212908	Sum of GTIs [s]
caldsver	4.6.8	 	ontime2	2752.8000212908	Sum of GTIs [s]
date	2015-07-27T12:53:48	Date and time of file creation	ontime3	2752.8000212908	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	2752.8000212908	Sum of GTIs [s]
			ontime7	2752.8000212908	Sum of GTIs [s]
			ontime8	2743.3771301508	Sum of GTIs [s]
			l1events	83801	Number of level 1 events

2.1.4 Events

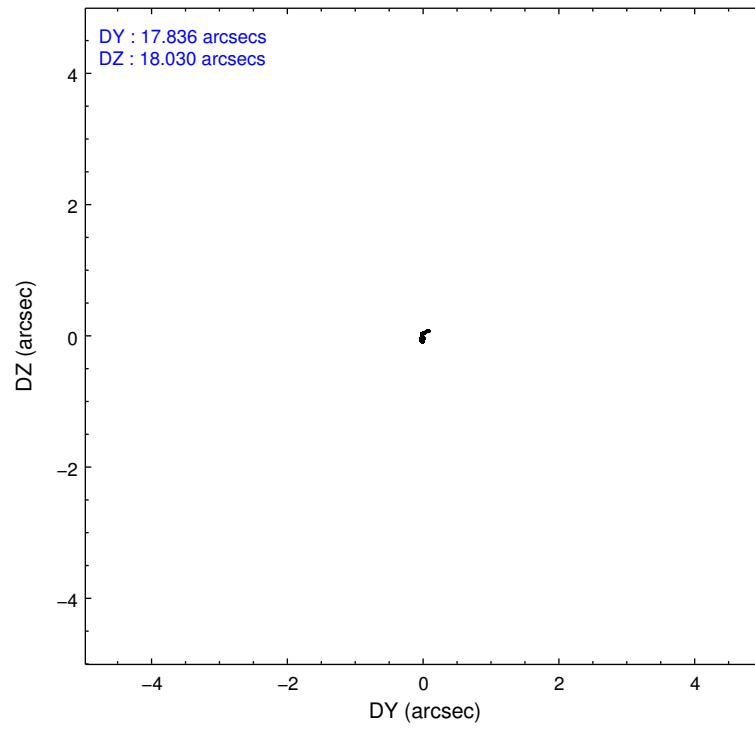
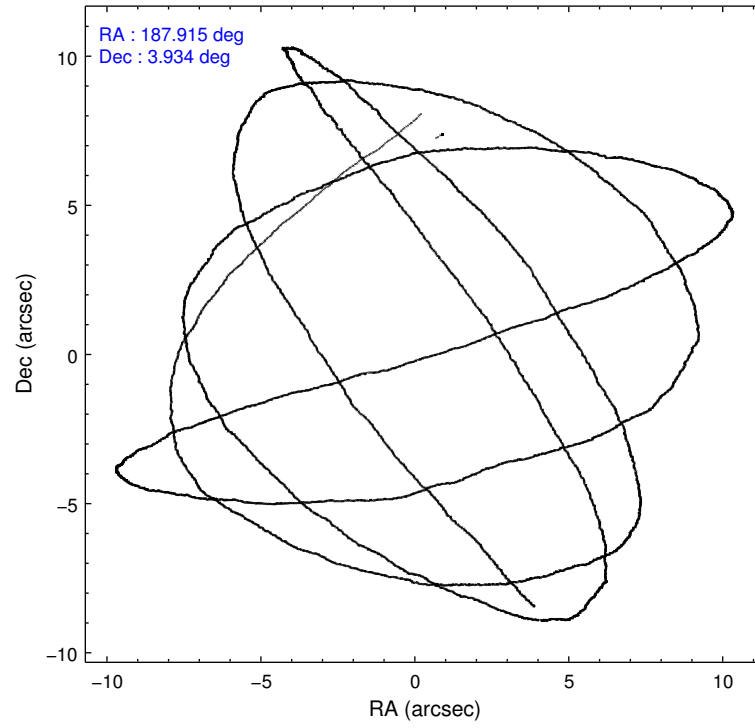
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	14916	14568	13691	19476	21150
rejected events	13386	13030	12096	11059	16021
rejected %	89%	89%	88%	56%	75%

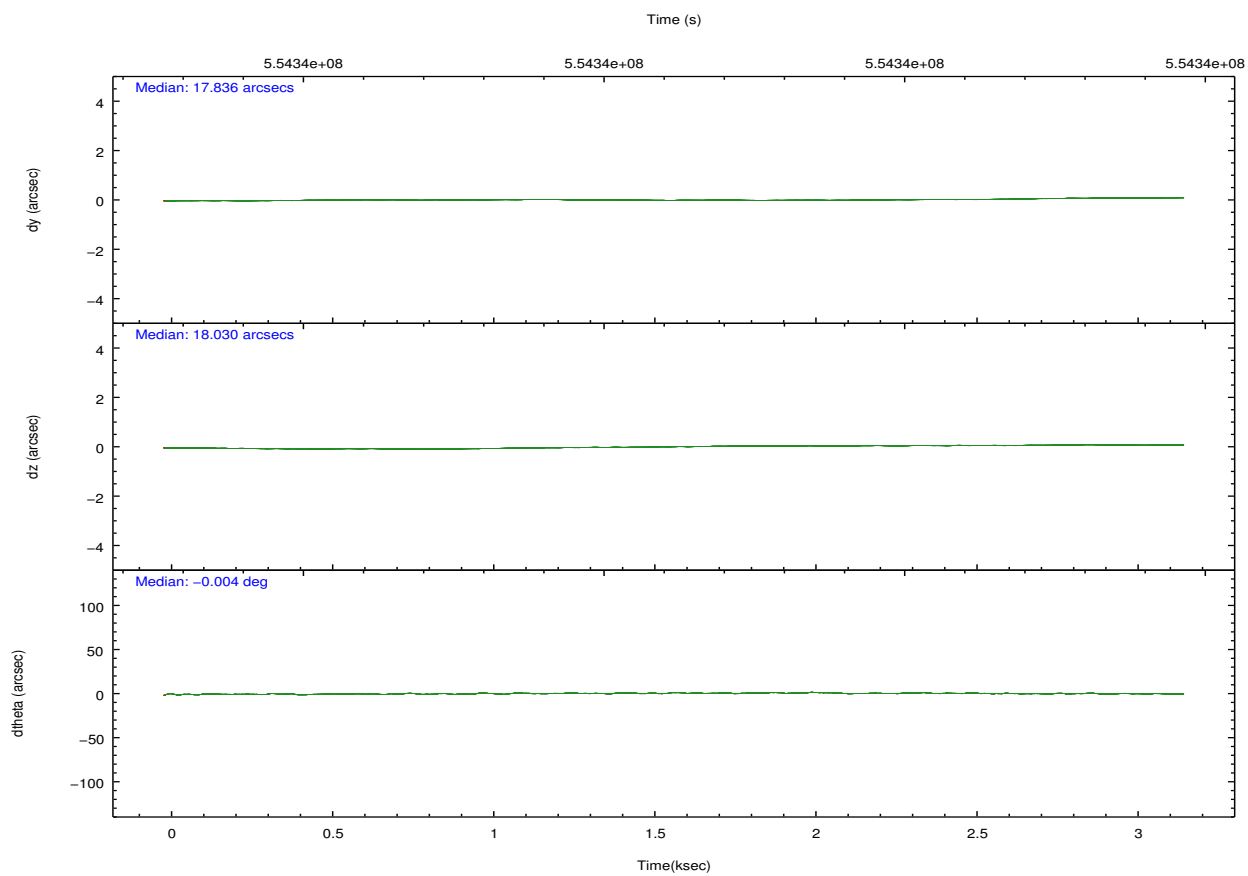
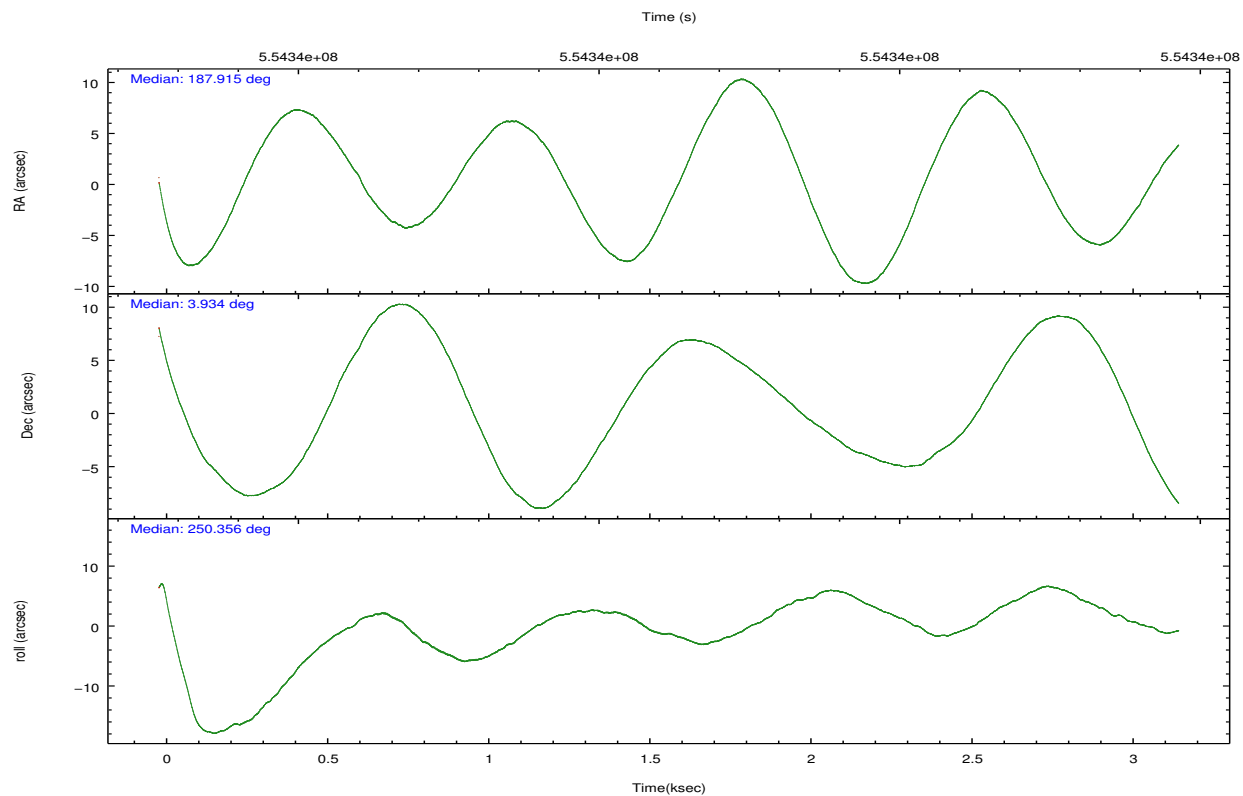
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	515	585	532	776	1487
	3%	4%	3%	3%	7%
grade 1 events	7	9	9	26	16
	0%	0%	0%	0%	0%
grade 2 events	395	346	361	1735	1259
	2%	2%	2%	8%	5%
grade 3 events	151	144	160	745	464
	1%	0%	1%	3%	2%
grade 4 events	157	164	167	710	480
	1%	1%	1%	3%	2%
grade 5 events	595	724	730	1999	1029
	3%	4%	5%	10%	4%
grade 6 events	312	302	377	4462	1442
	2%	2%	2%	22%	6%
grade 7 events	12784	12294	11355	9023	14973
	85%	84%	82%	46%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	187.909836	187.9150494885557	CCD I2 on	O2	Y
[deg] Pointing Dec	3.961246	3.934308997873114	CCD I3 on	O1	Y
[deg] Pointing Roll	250.204584	250.3609271219129	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[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	Y	Y
[s] Observation start time (MET)	554337826.184000	554336777.29119	CCD S5 on	N	N
Observation start date	2015-07-26T22:42:38	2015-07-26T22:26:17	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	554340806.184000	554341800.81647	On-chip summing requested	N	N
Observation end date	2015-07-26T23:32:18	2015-07-26T23:50:00	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



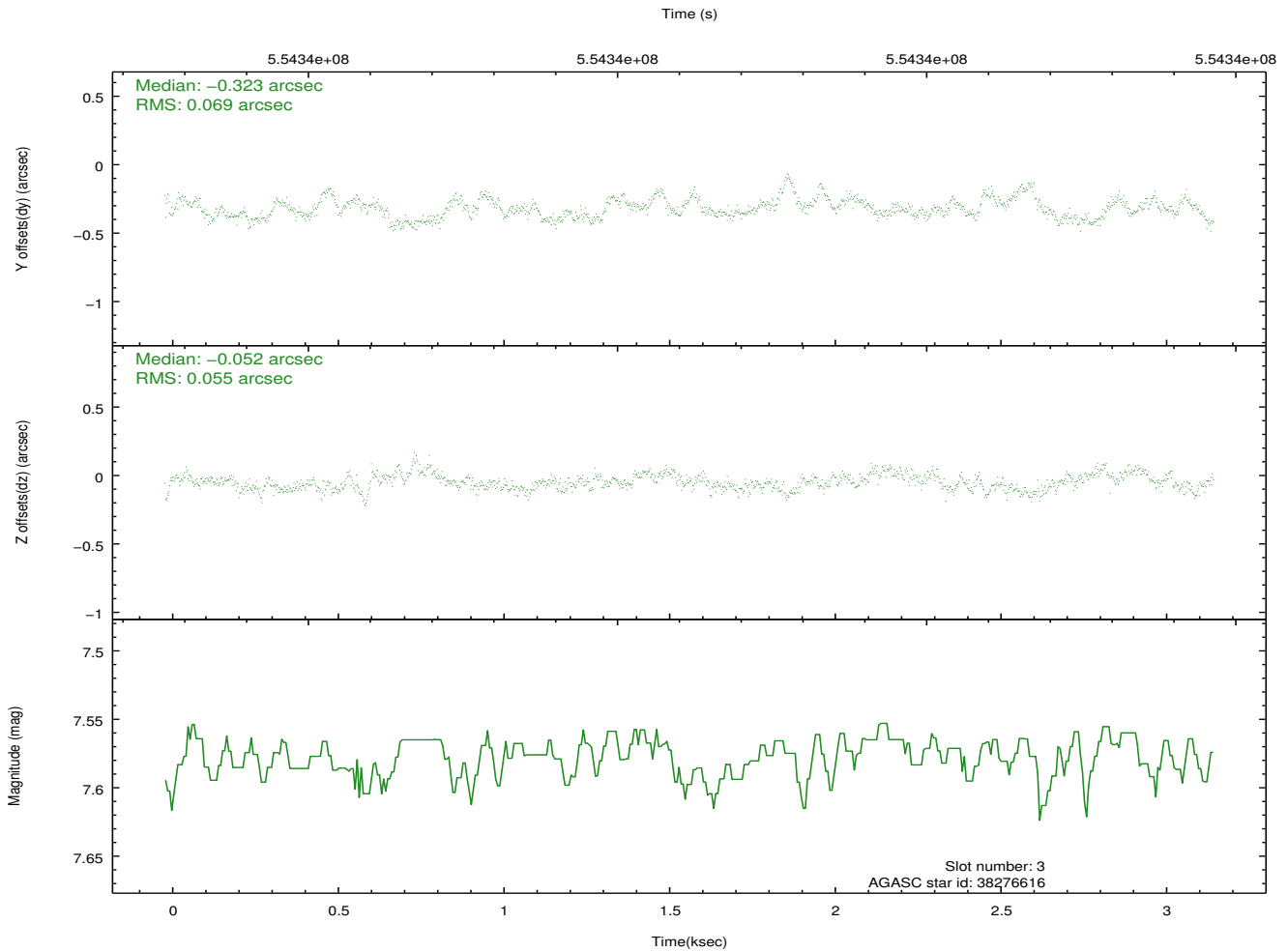
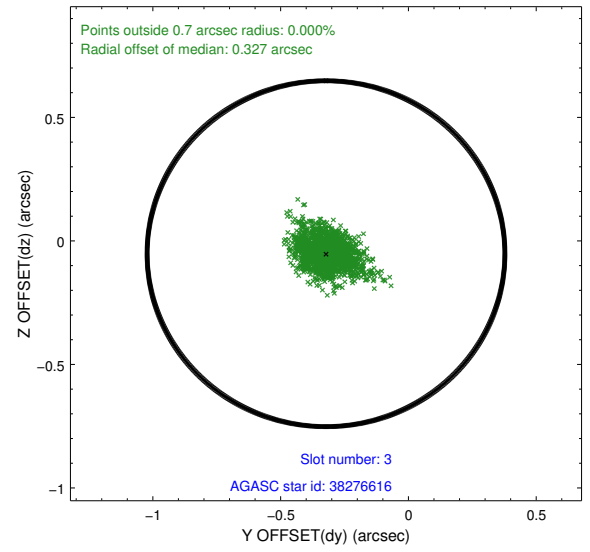
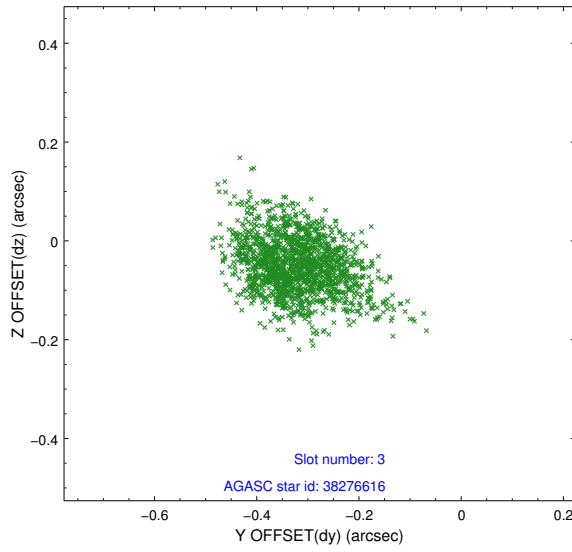


Slot Statistics

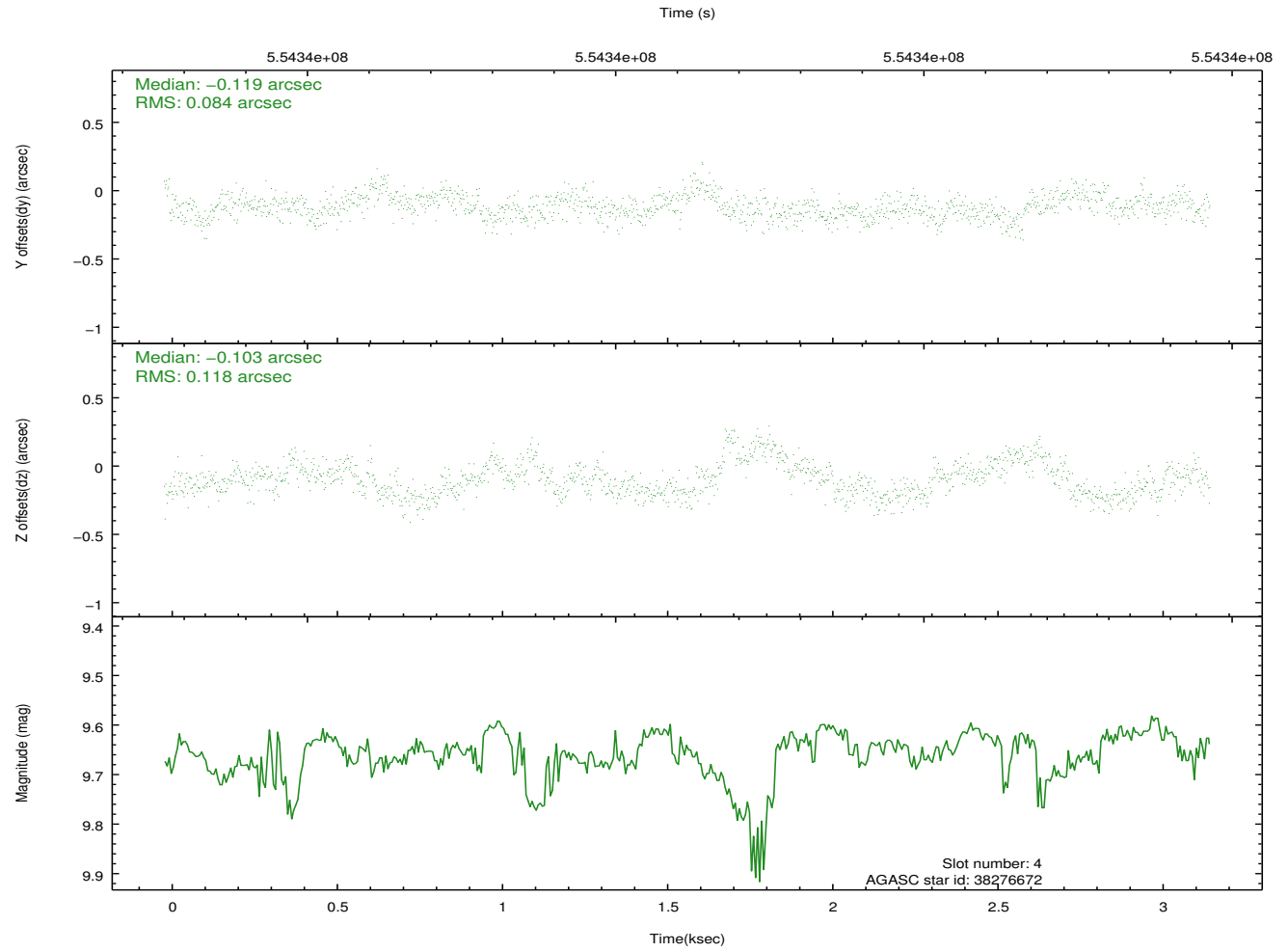
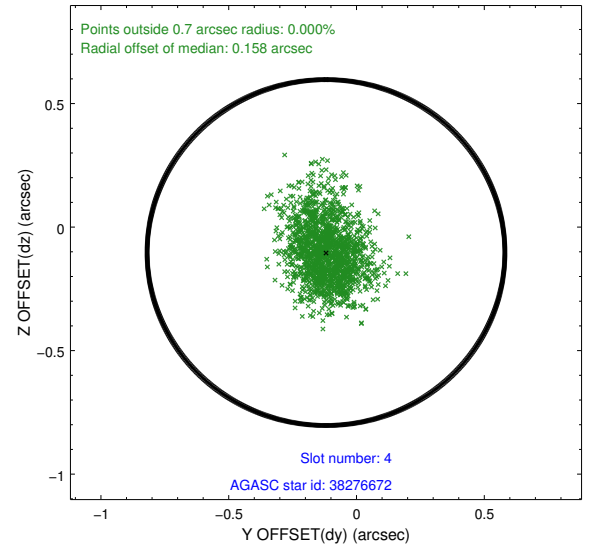
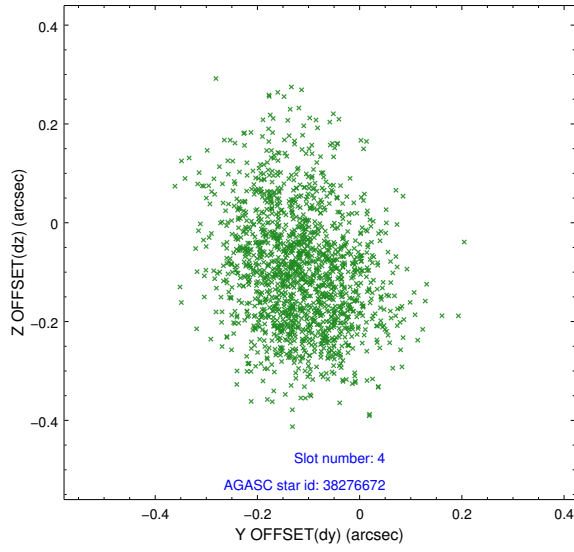
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.91	773	-0.106	-0.079	0.007	0.011	0.000000	0.000000	-771.01	-1739.55
1	FID		ACIS-S-4	6.99	773	0.327	0.072	0.006	0.009	0.000000	0.000000	2141.79	166.96
2	FID		ACIS-S-5	7.02	773	-0.253	0.016	0.006	0.009	0.000000	0.000000	-1821.41	162.90
3	GUIDE	used	38276616	7.58	1545	-0.323	-0.052	0.091	0.152	188.404227	4.220520	-1479.68	1353.67
4	GUIDE	used	38276672	9.66	1543	-0.119	-0.103	0.151	0.255	188.117492	3.340615	1849.52	1458.10
5	GUIDE	used	38279600	9.08	1539	-0.325	-0.098	0.125	0.196	188.016310	3.893520	100.94	442.91
6	GUIDE	used	38280672	8.25	1544	0.737	0.003	0.117	0.195	187.803710	3.562373	1481.40	128.34
7	GUIDE	used	38277656	8.93	1544	0.011	0.245	0.107	0.175	187.816013	4.666784	-2274.17	-1175.57

2.4 Star Slots

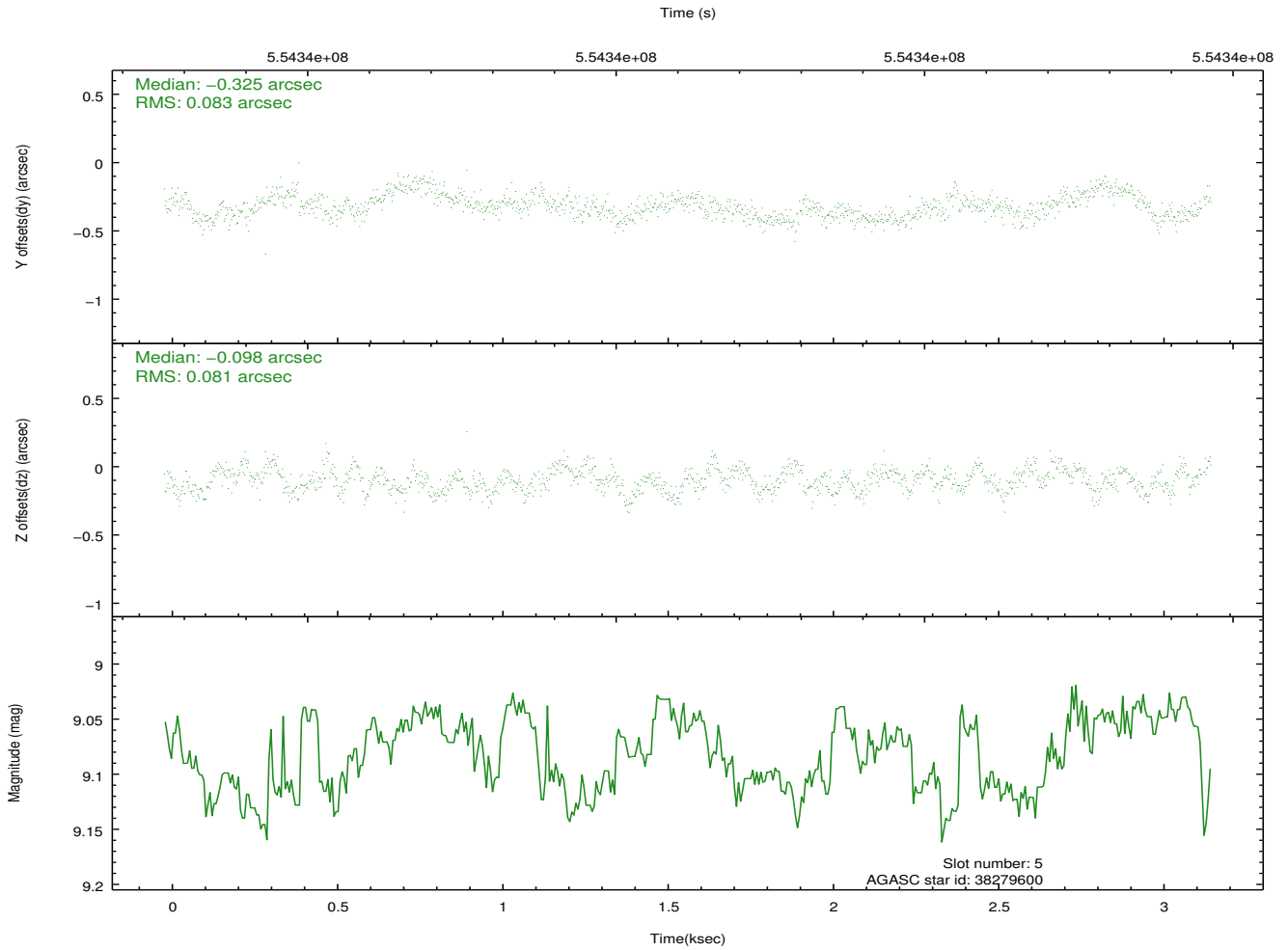
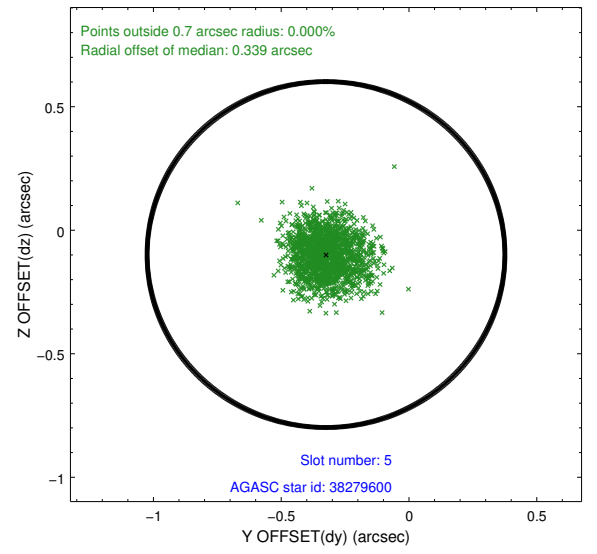
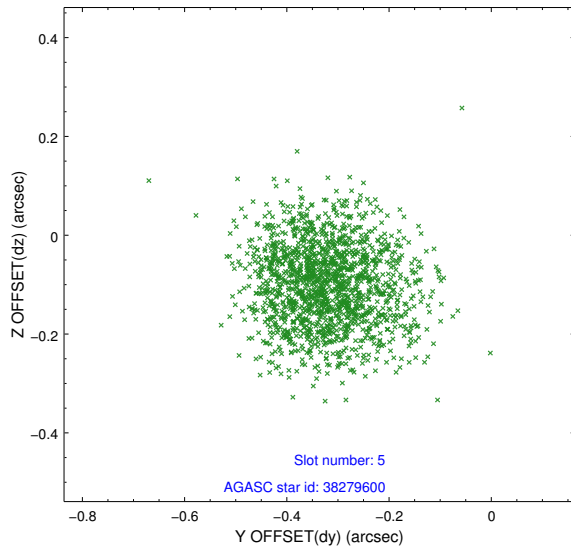
2.4.1 Slot 3



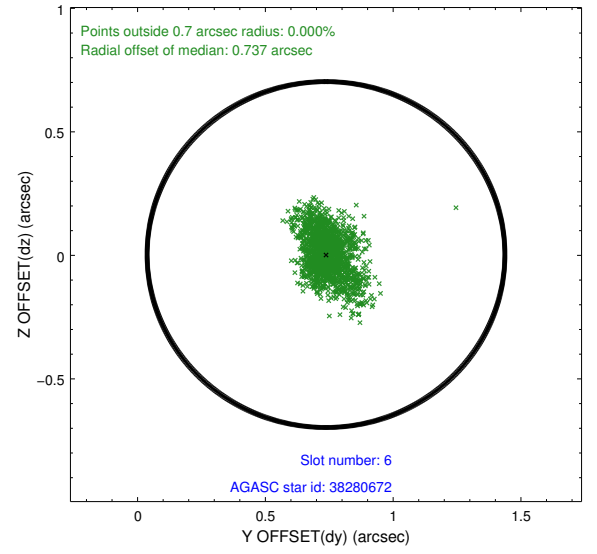
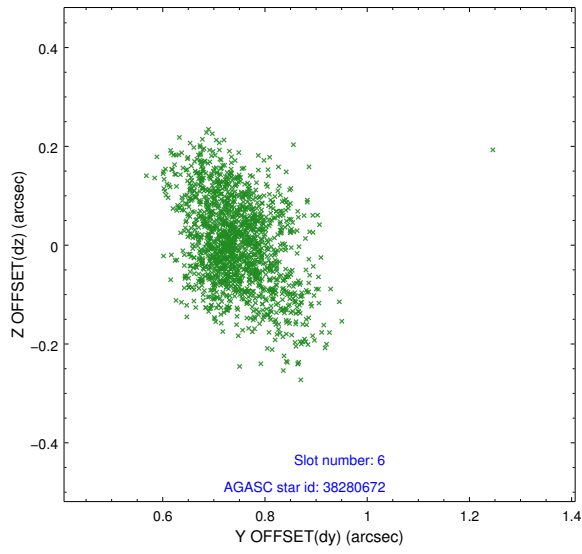
2.4.2 Slot 4



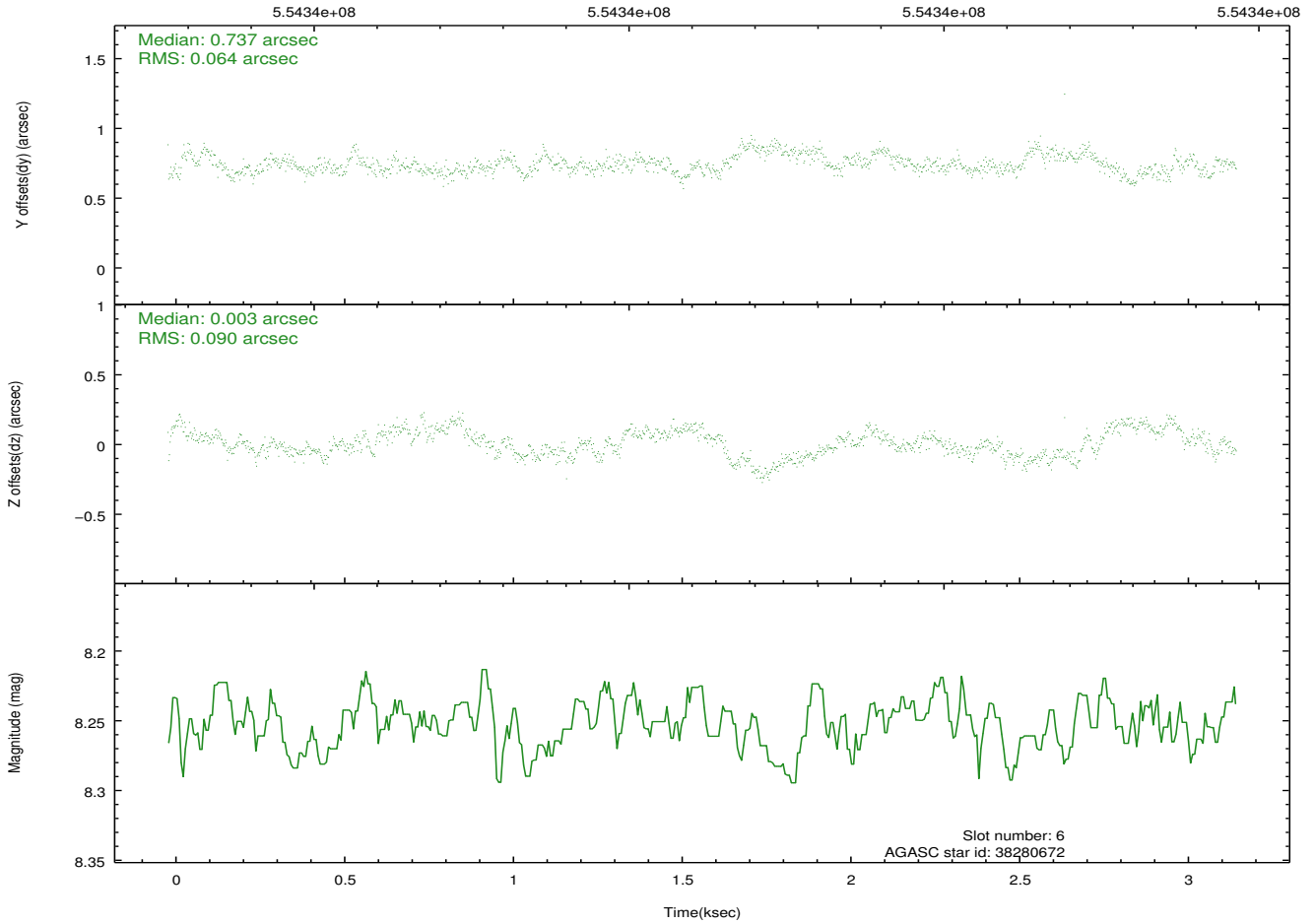
2.4.3 Slot 5



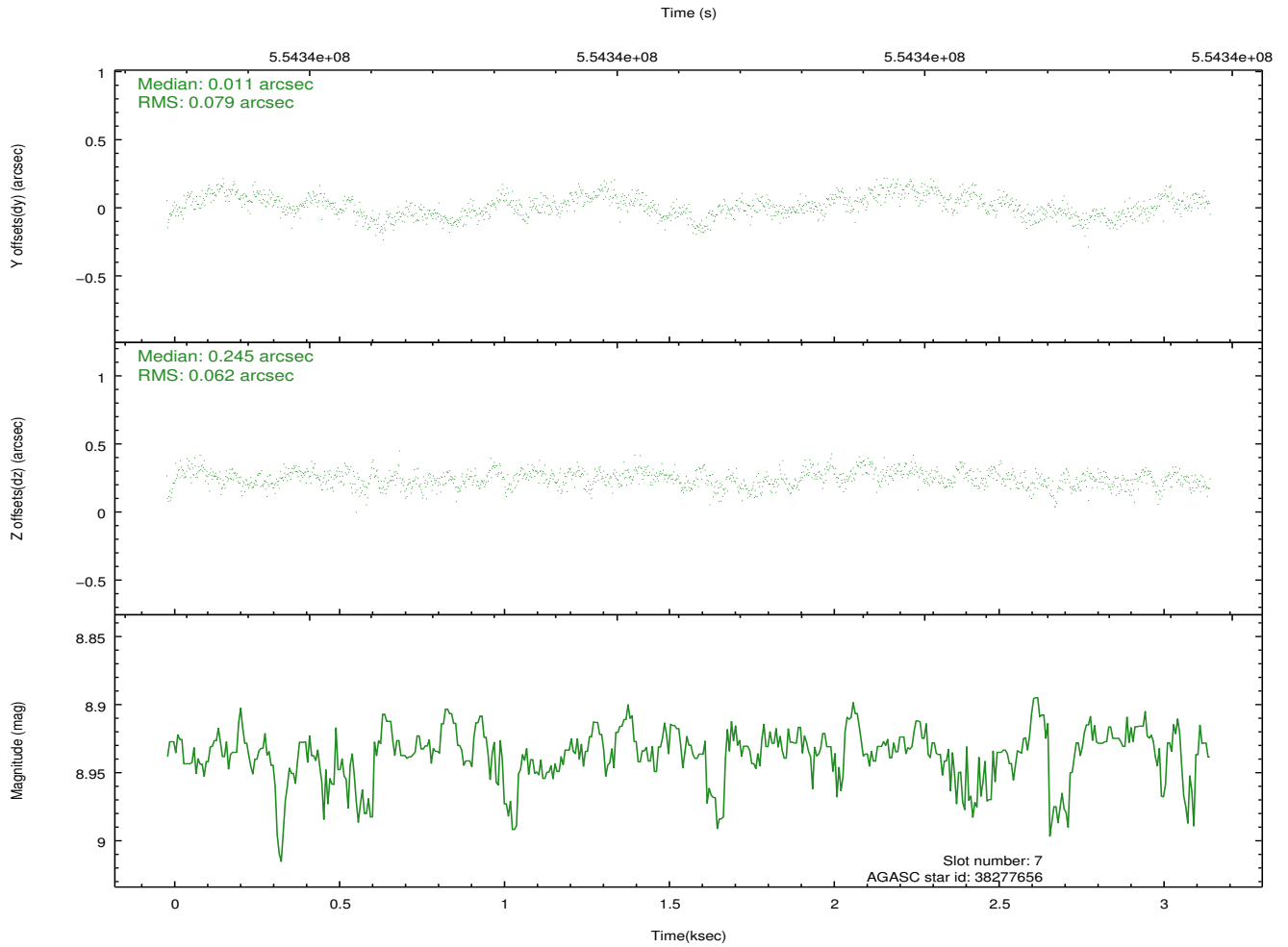
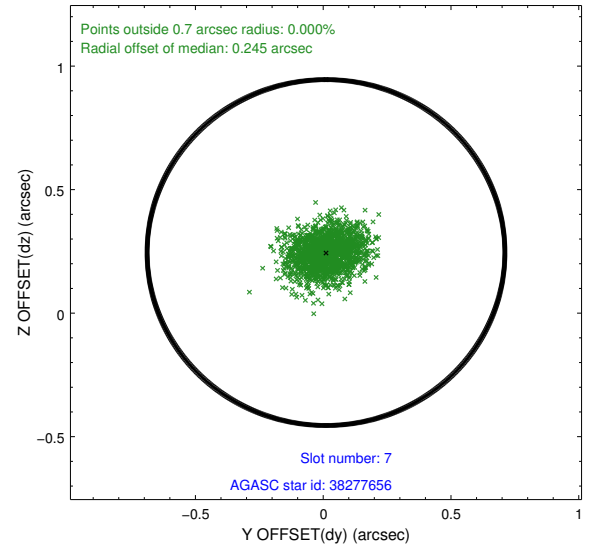
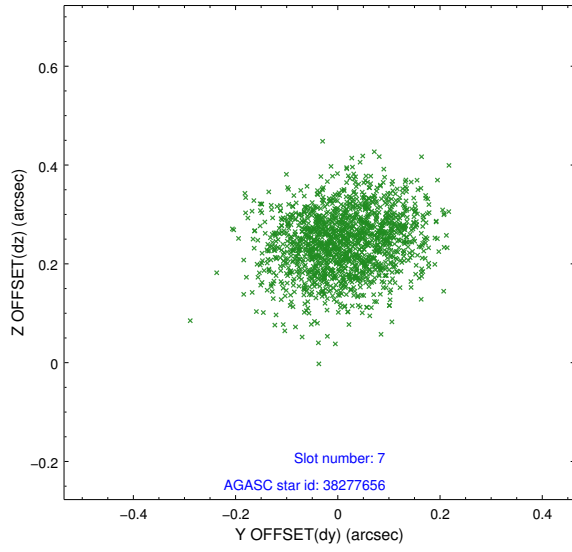
2.4.4 Slot 6



Time (s)

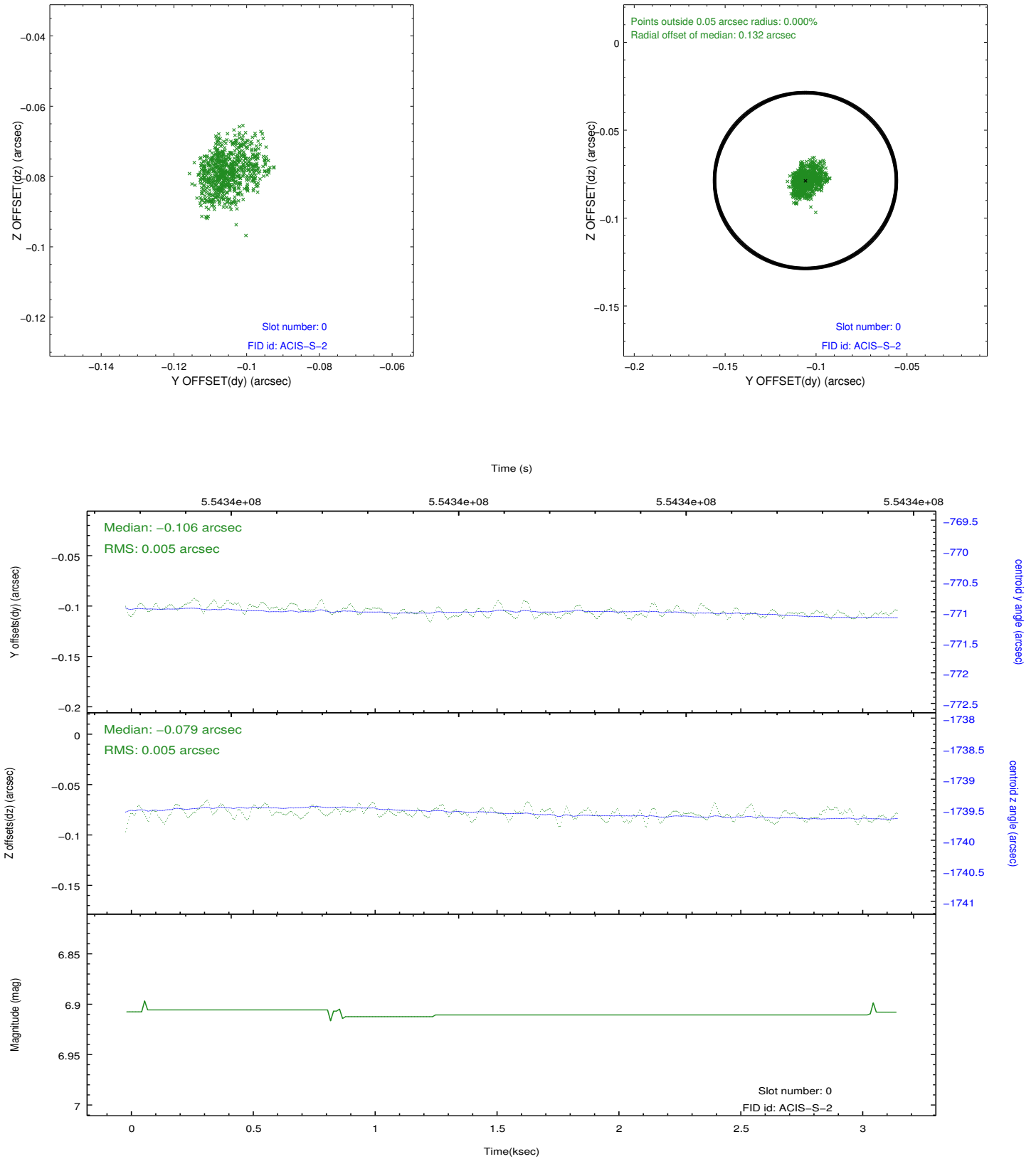


2.4.5 Slot 7

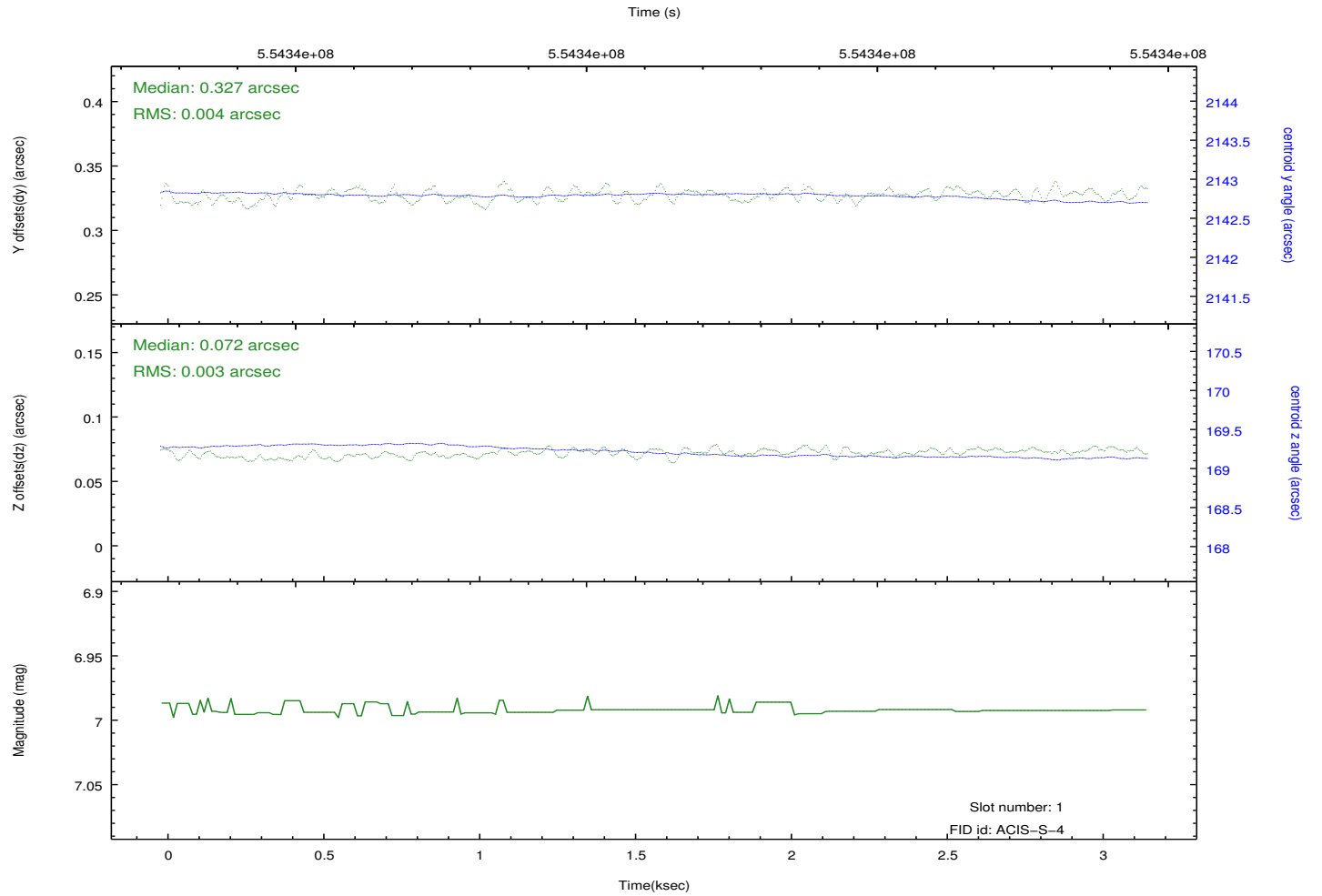
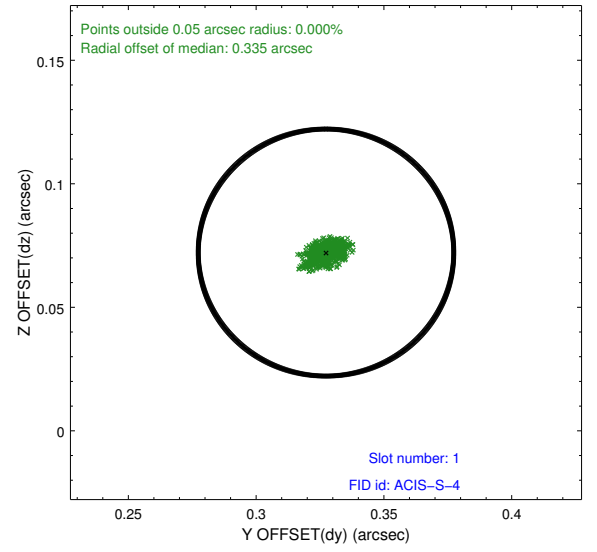
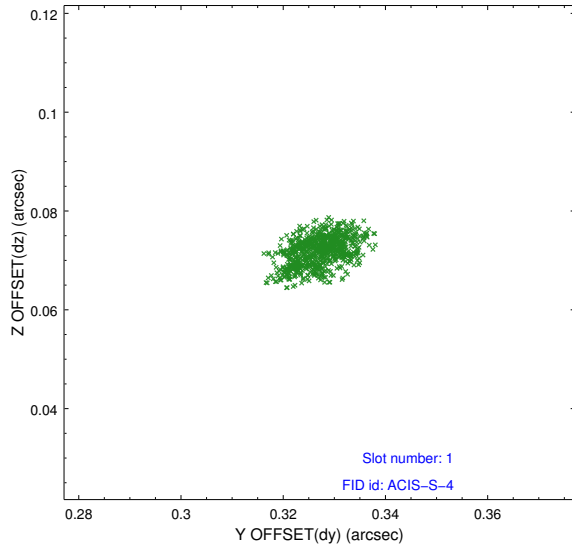


2.5 FID Slots

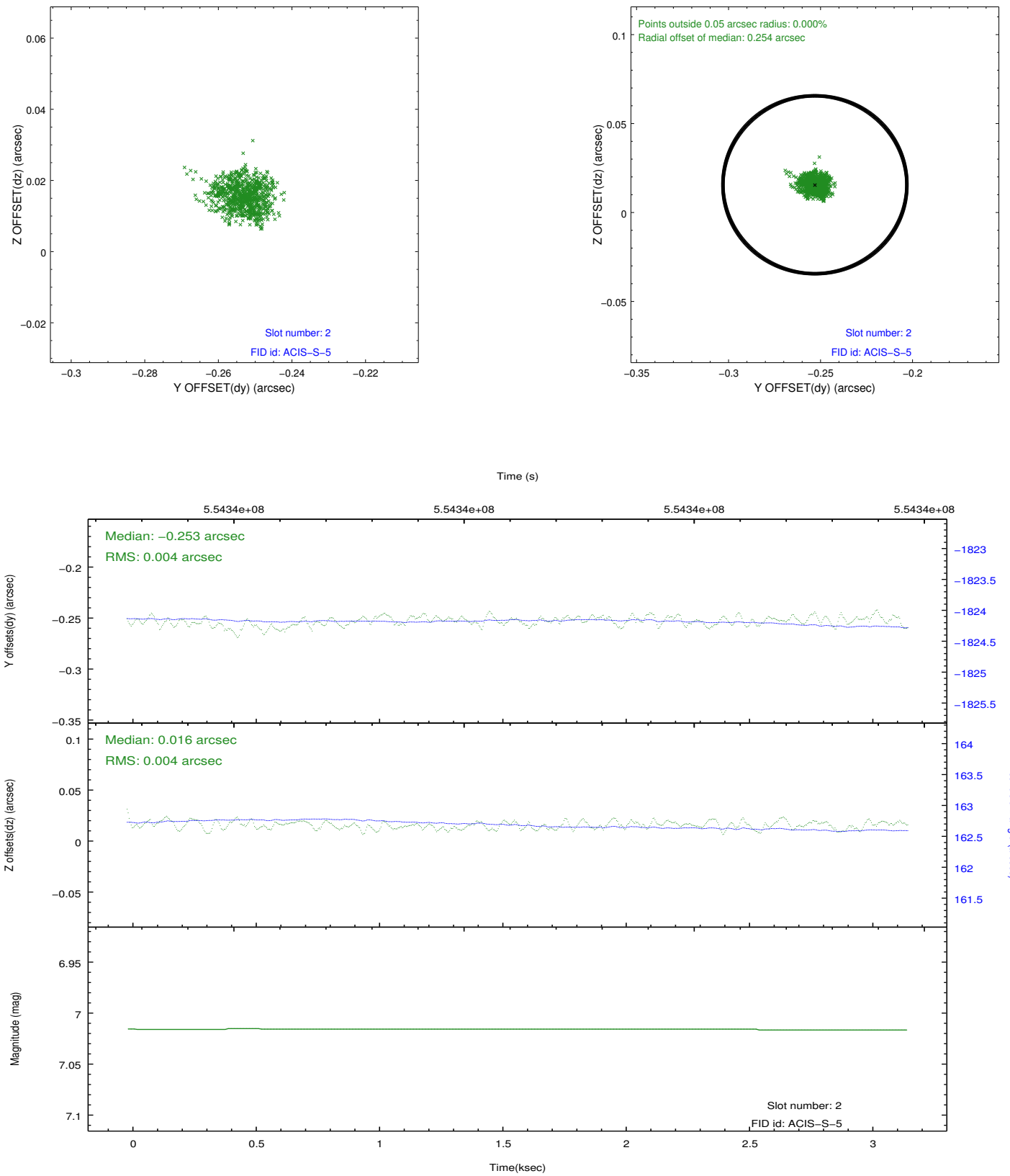
2.5.1 Slot 0



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)	2015.07.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.7528000212908

A.2 Comments