

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 17100 - L2 Version 1
Chandra X-Ray Center

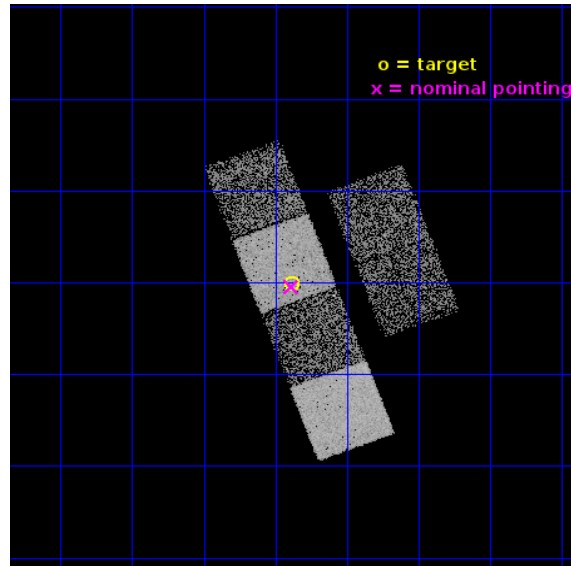
L2 Processing Date : Jul 20 2015

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1 Front

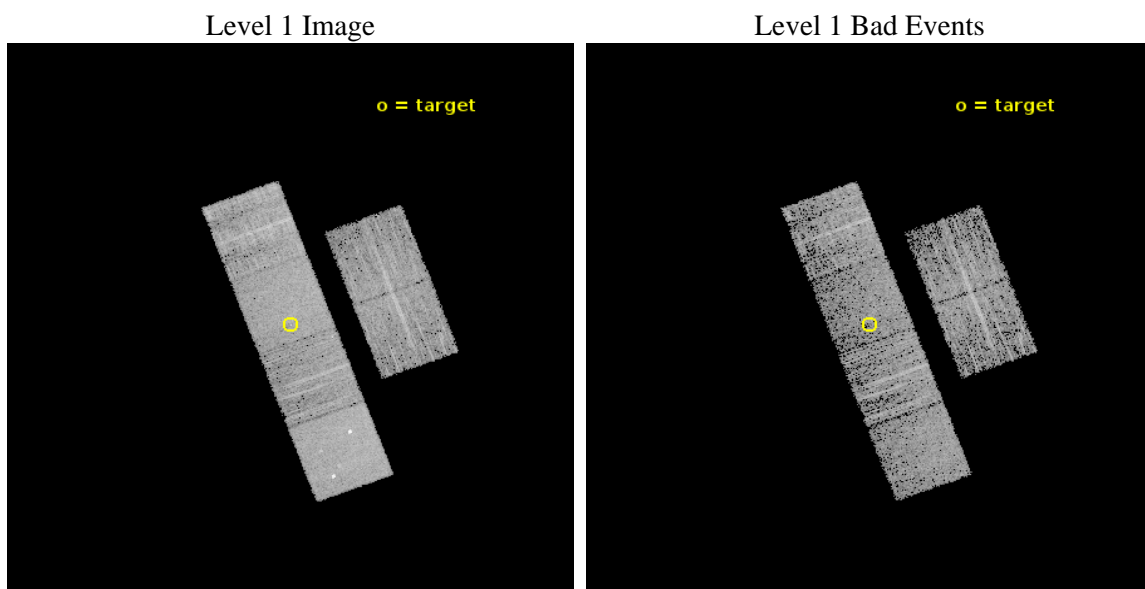
seq_num	703104	Sequence number
obs_id	17100	Observation id
title	Probing the Physics of Quasar Outflows using Mini-LoBALs	Proposal
observer	Professor Karen Leighly	Principal investigator
object	SDSS J130952.88+011950.7	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	197.470417	Observer's specified target RA [deg]
dec_targ	1.330833	Observer's specified target Dec [deg]
ra_nom	197.47213427615	Nominal RA [deg]
dec_nom	1.3257867776029	Nominal Dec [deg]
roll_nom	249.34135110446	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5849.4326865673	Sum of GTIs [s]
livetime	5775.3636477845	Livetime [s]
ontime2	5849.473726511	Sum of GTIs [s]
ontime3	5849.3095664978	Sum of GTIs [s]
ontime5	5849.3916465044	Sum of GTIs [s]
ontime6	5849.3506065607	Sum of GTIs [s]
ontime7	5849.4326865673	Sum of GTIs [s]
ontime8	5849.2685265541	Sum of GTIs [s]
l2events	51733	Number of level 2 events



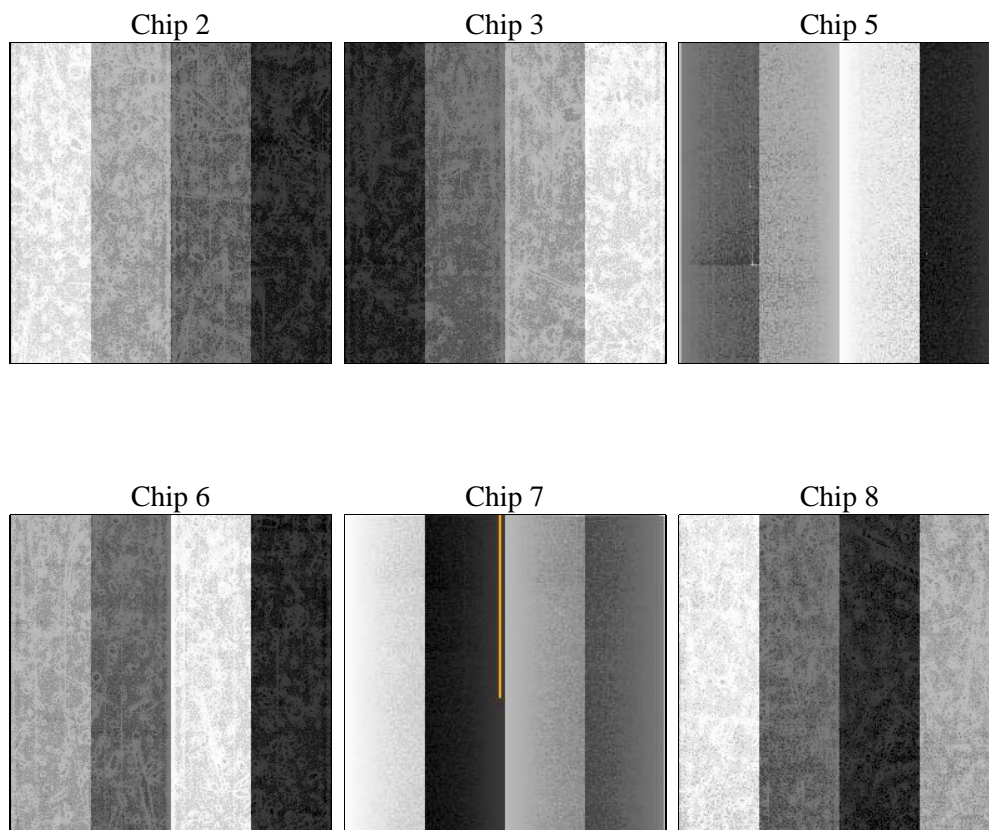
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5900.000000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	5849.4326865673	Sum of GTIs [s]
caldsver	4.6.8	 	ontime2	5849.473726511	Sum of GTIs [s]
date	2015-07-21T03:25:08	Date and time of file creation	ontime3	5849.3095664978	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	5849.3916465044	Sum of GTIs [s]
			ontime6	5849.3506065607	Sum of GTIs [s]
			ontime7	5849.4326865673	Sum of GTIs [s]
			ontime8	5849.2685265541	Sum of GTIs [s]
			l1events	222712	Number of level 1 events

2.1.4 Events

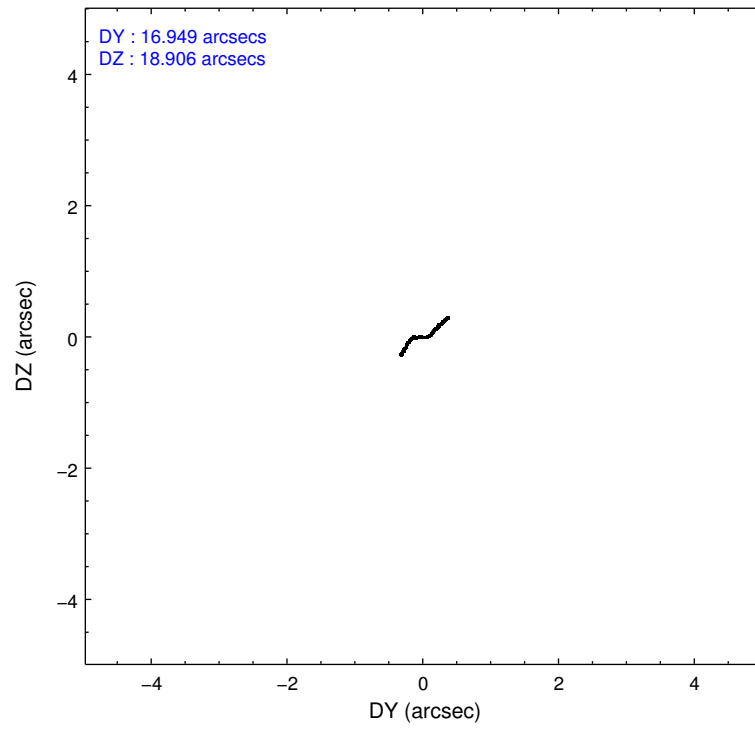
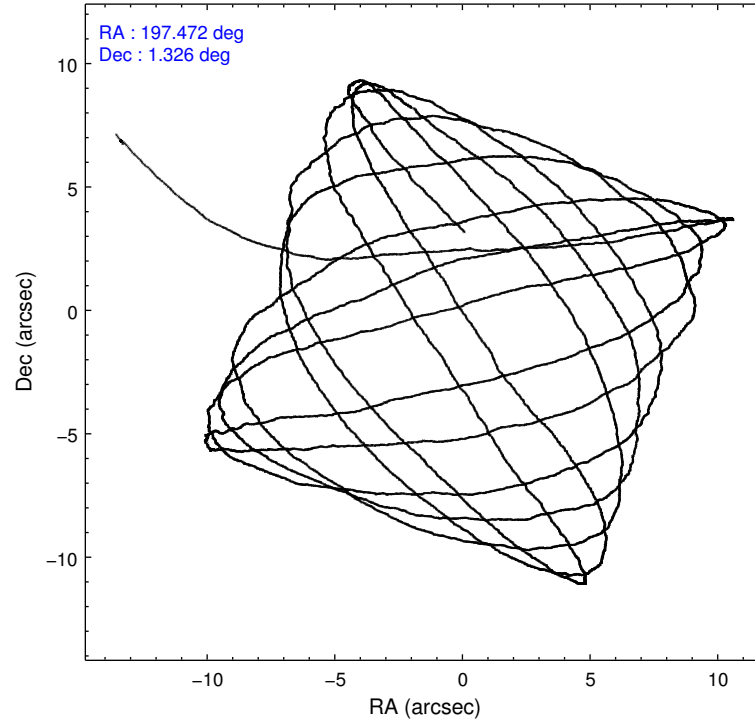
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	30346	28817	50130	31777	40067	41575	grade 0 events	1169	1206	3303	1369	1505	3599
rejected events	26900	25450	25445	27850	22649	29495		3%	4%	6%	4%	3%	8%
rejected %	88%	88%	50%	87%	56%	70%	grade 1 events	19	12	110	13	51	35
								0%	0%	0%	0%	0%	0%
							grade 2 events	881	746	7264	894	3841	2613
								2%	2%	14%	2%	9%	6%
							grade 3 events	327	378	749	388	1502	1427
								1%	1%	1%	1%	3%	3%
							grade 4 events	375	329	800	368	1411	1356
								1%	1%	1%	1%	3%	3%
							grade 5 events	1306	1562	3636	1566	4073	2210
								4%	5%	7%	4%	10%	5%
							grade 6 events	695	709	12586	910	9169	3086
								2%	2%	25%	2%	22%	7%
							grade 7 events	25574	23875	21682	26269	18515	27249
								84%	82%	43%	82%	46%	65%

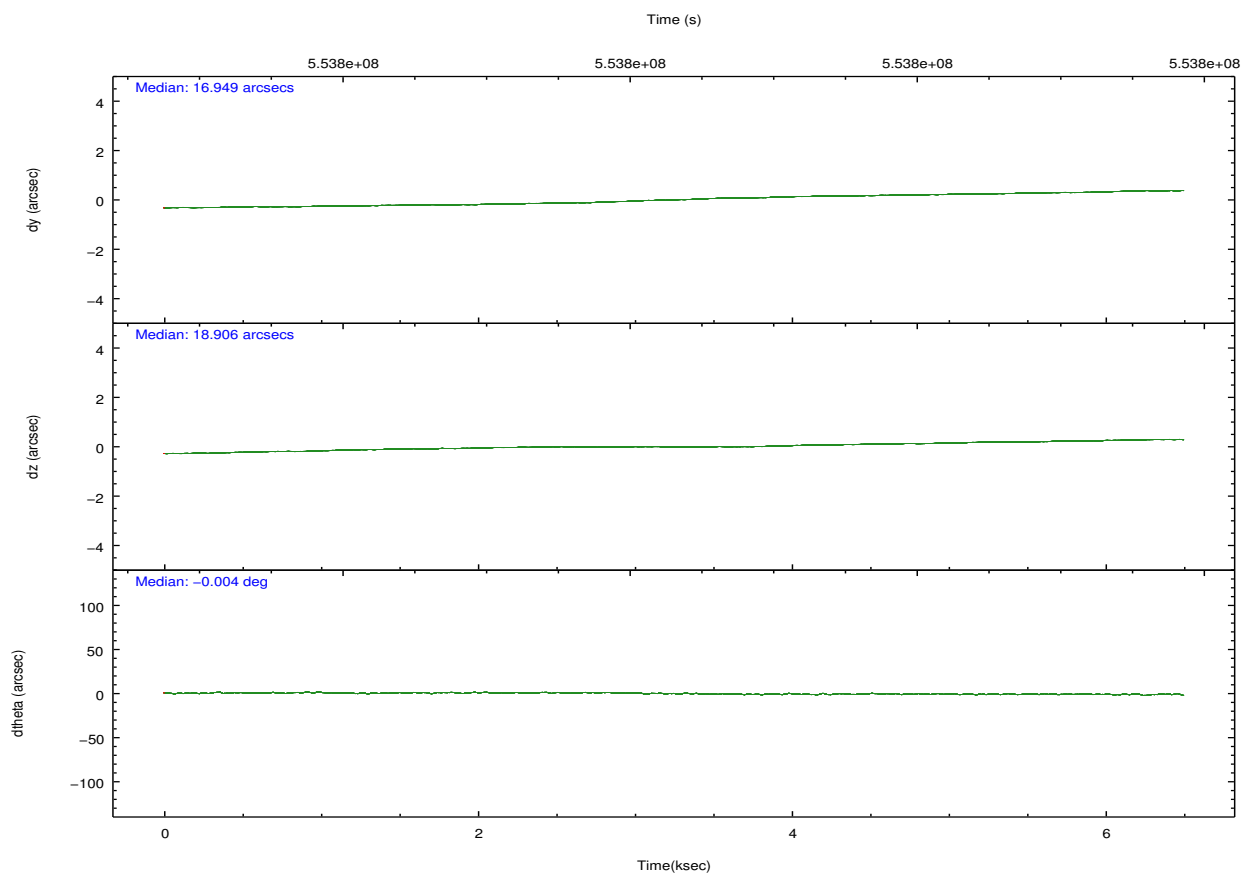
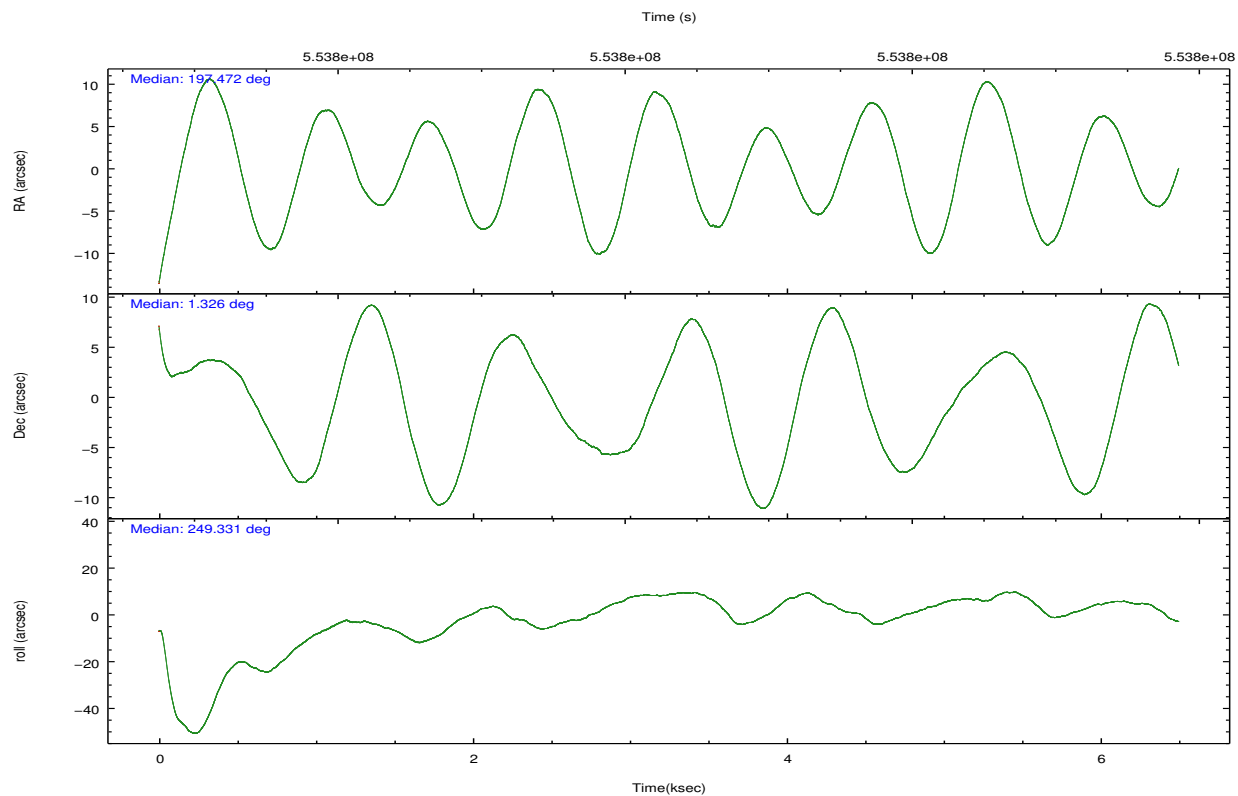
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	197.467321	197.4721342761514
[deg] Pointing Dec	1.352697	1.325786777602924
[deg] Pointing Roll	249.184745	249.3413511044578
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	553795667.184000	553794498.44824
Observation start date	2015-07-20T16:06:39	2015-07-20T15:48:18
[s] Observation end time (MET)	553801567.184000	553802079.8611701
Observation end date	2015-07-20T17:44:59	2015-07-20T17:54:39
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



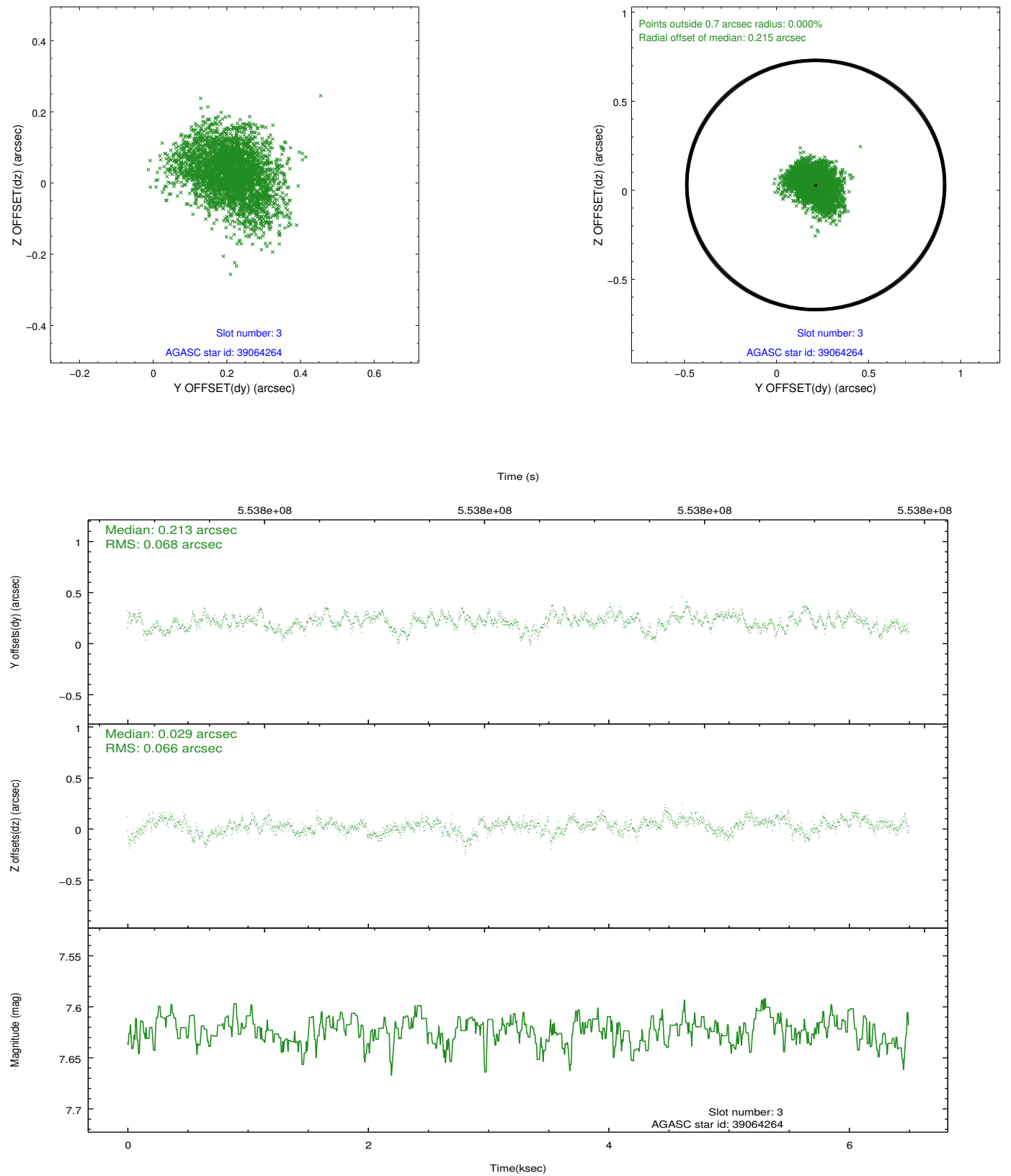


Slot Statistics

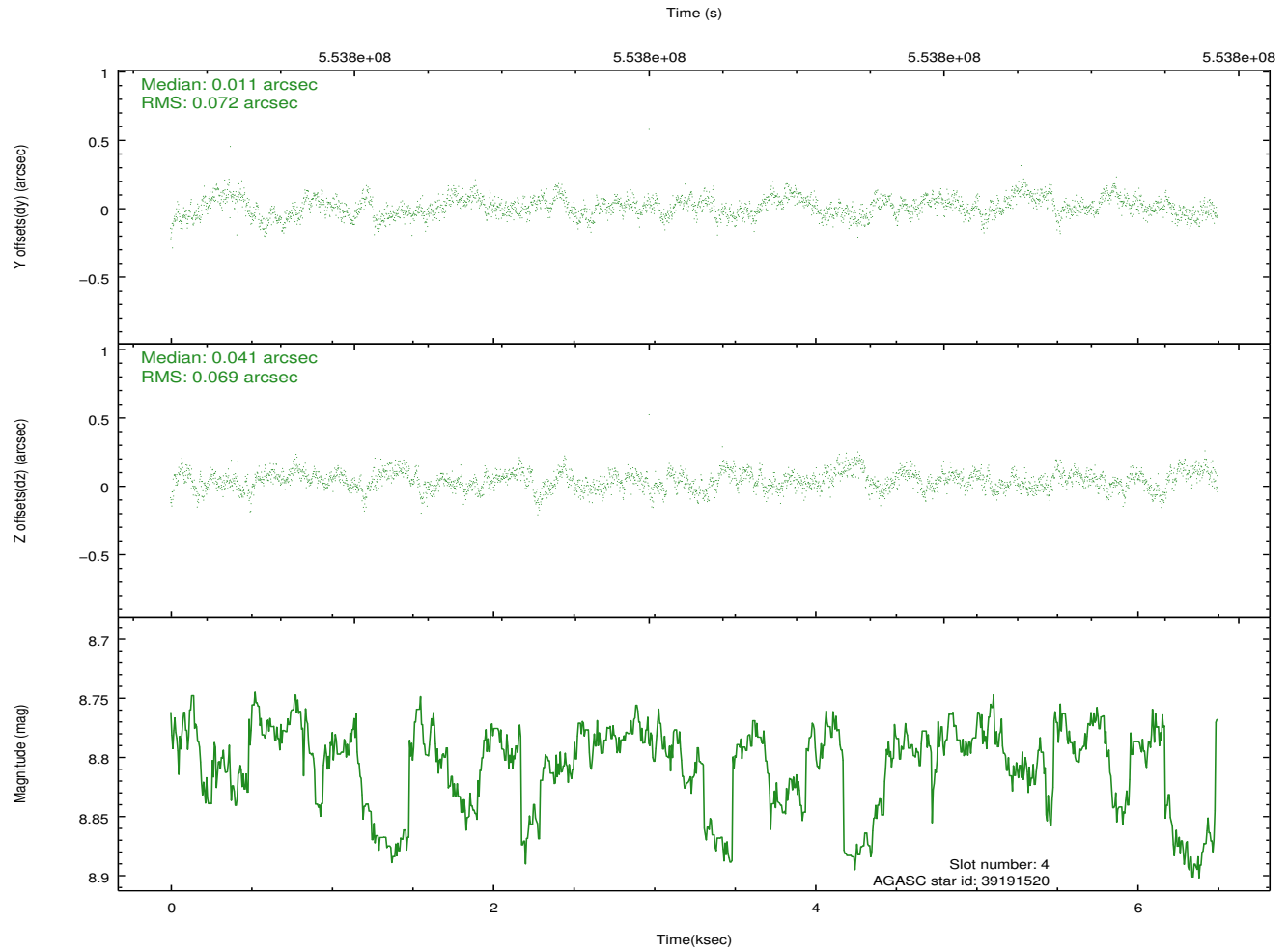
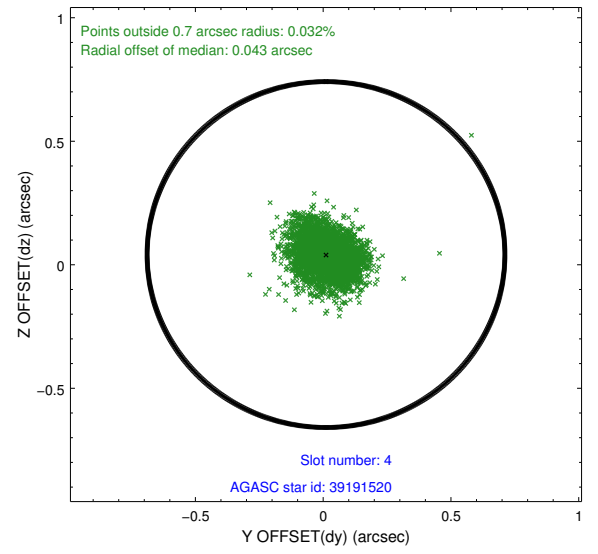
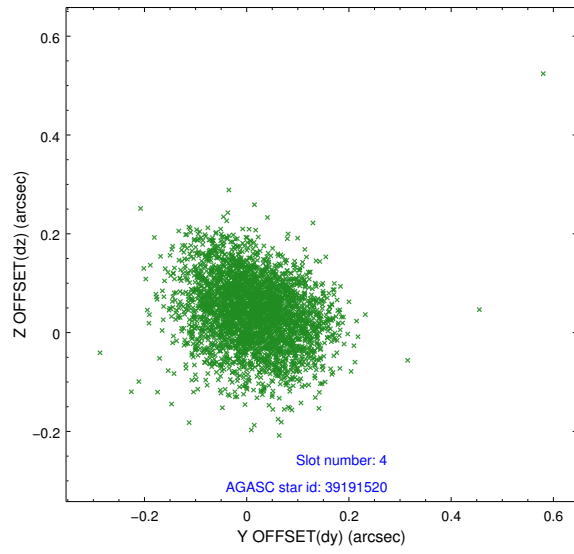
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.99	1586	-0.108	-0.068	0.011	0.017	0.000000	0.000000	-770.09	-1740.47
1	FID		ACIS-S-4	7.09	1586	0.285	0.070	0.007	0.014	0.000000	0.000000	2143.17	167.21
2	FID		ACIS-S-5	7.11	1586	-0.209	0.007	0.010	0.016	0.000000	0.000000	-1821.88	161.84
3	GUIDE	used	39064264	7.62	3170	0.213	0.029	0.102	0.164	196.902539	1.474458	313.72	-2054.79
4	GUIDE	used	39191520	8.80	3169	0.011	0.041	0.106	0.170	197.717780	1.725616	-1573.68	365.75
5	GUIDE	used	39192288	10.04	3048	0.155	0.231	0.172	0.287	198.102558	1.659461	-1845.47	1743.92
6	GUIDE	used	39198040	10.08	3159	-0.315	-0.395	0.206	0.339	197.984957	0.836282	1074.70	2403.04
7	GUIDE	used	39192736	9.93	3068	-0.056	0.098	0.163	0.281	198.255413	1.617492	-1898.49	2313.10

2.4 Star Slots

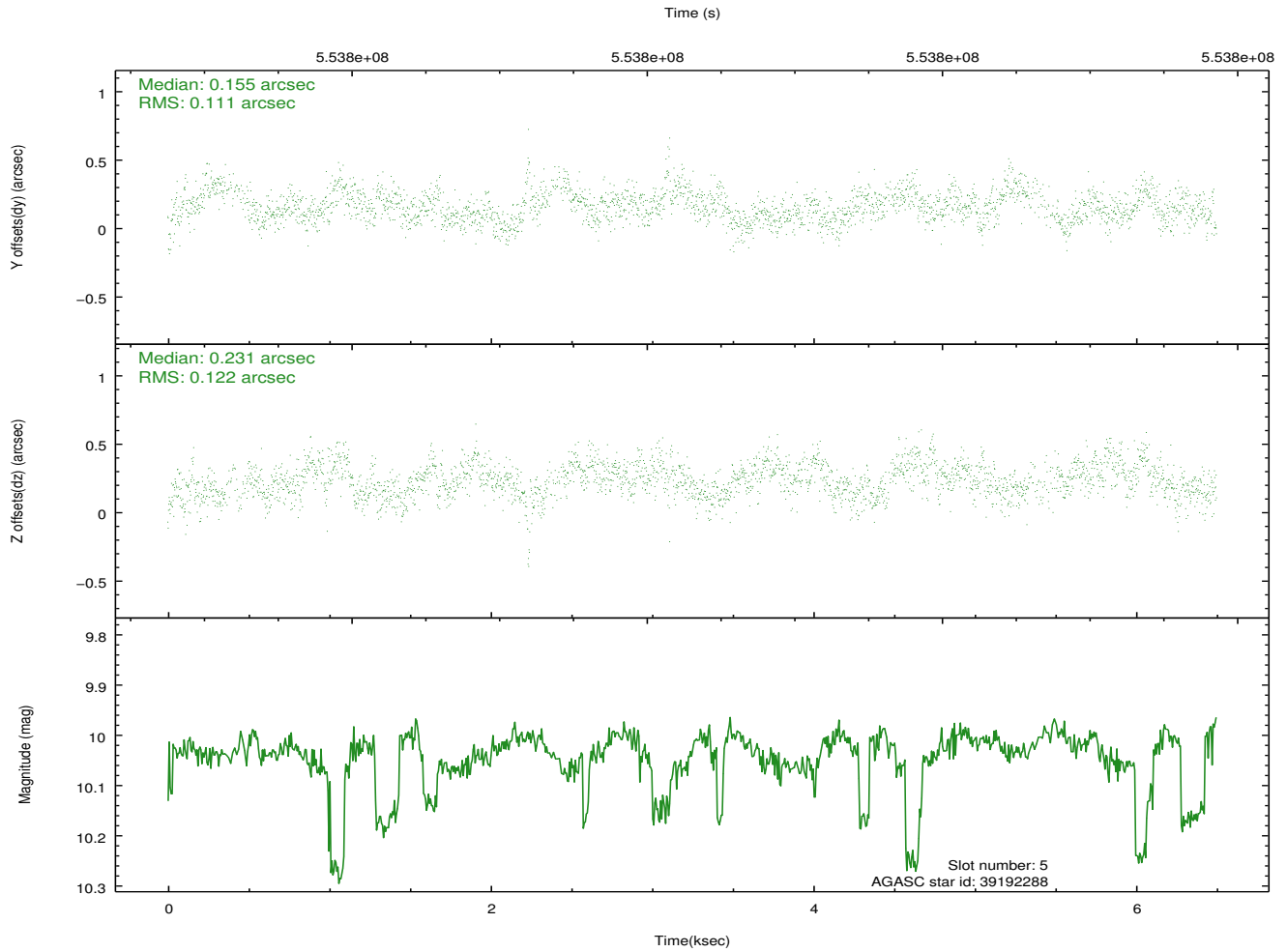
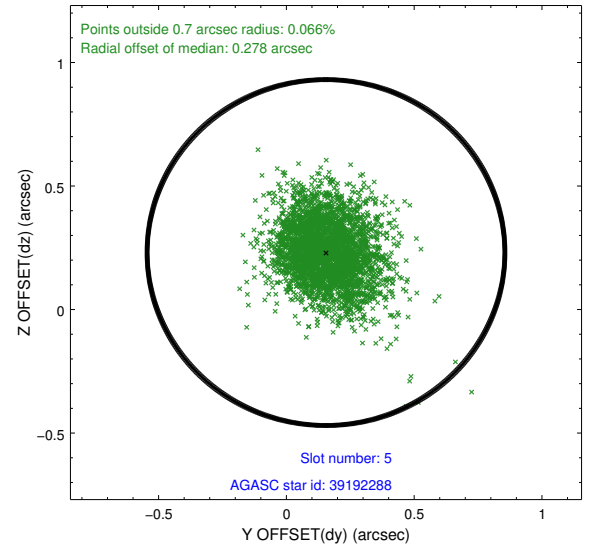
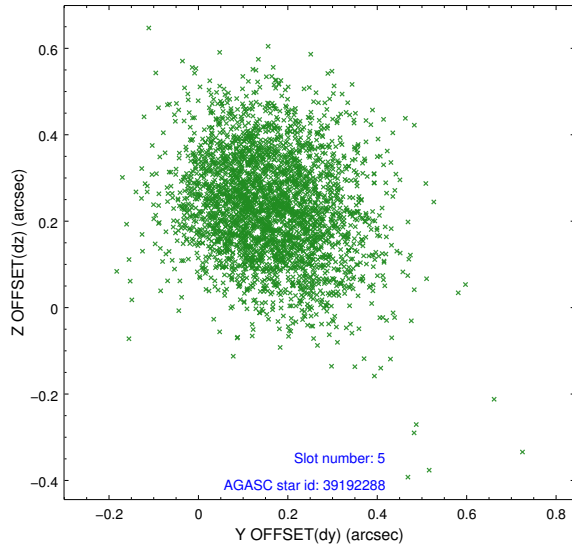
2.4.1 Slot 3



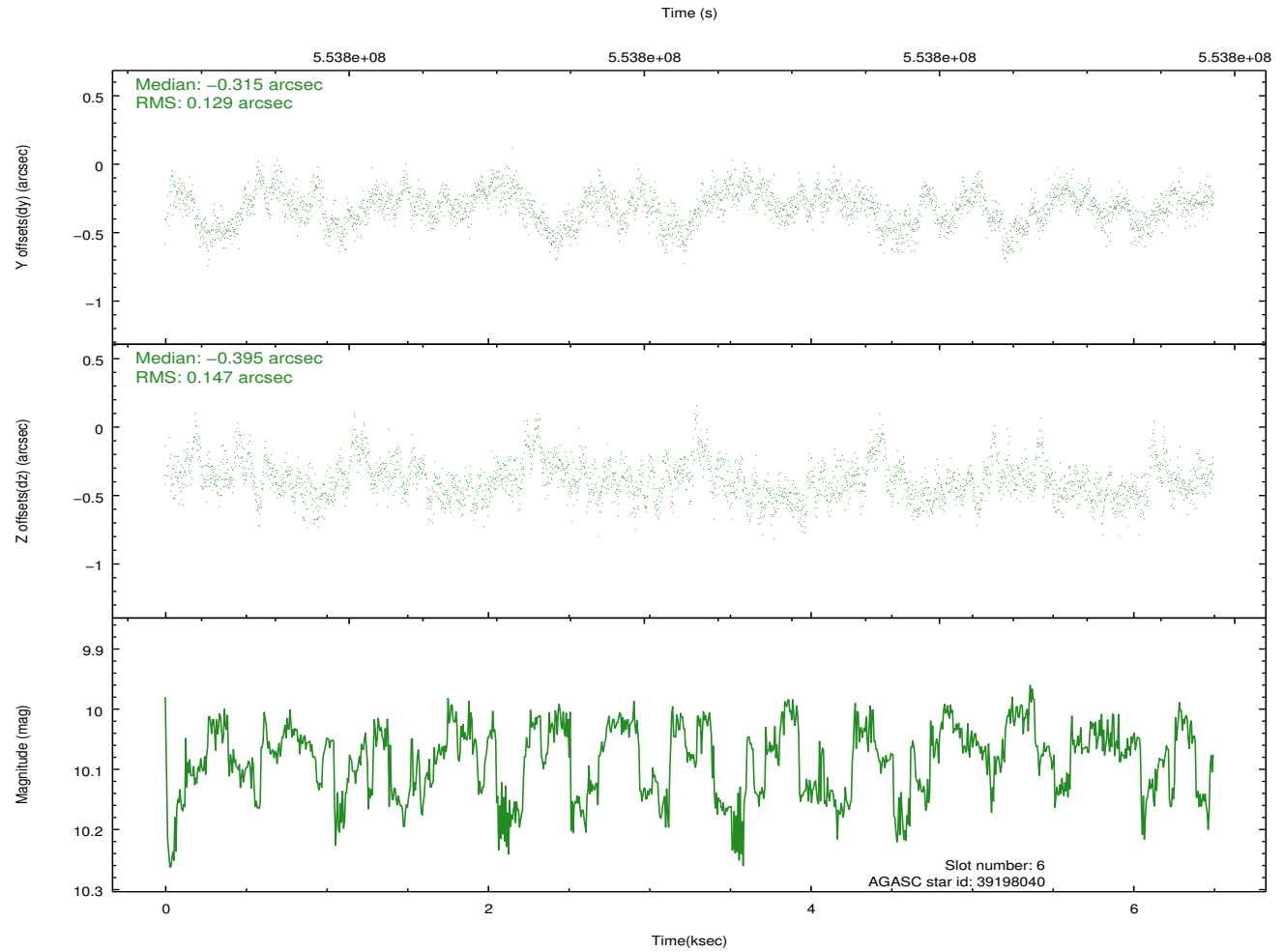
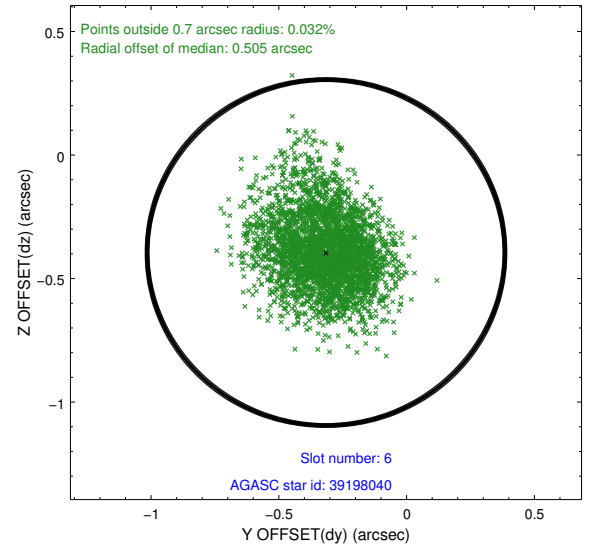
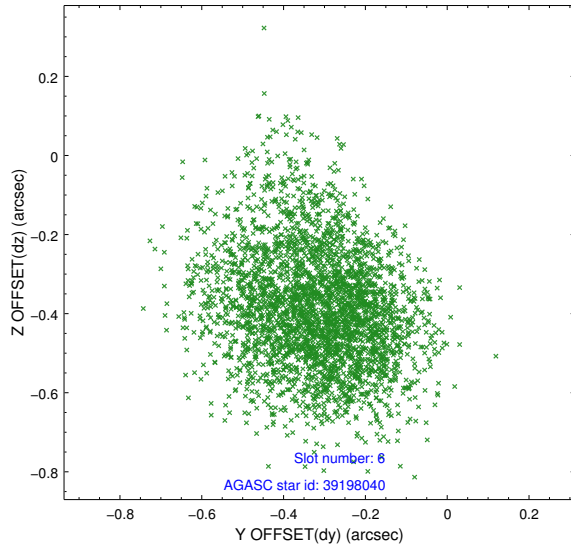
2.4.2 Slot 4



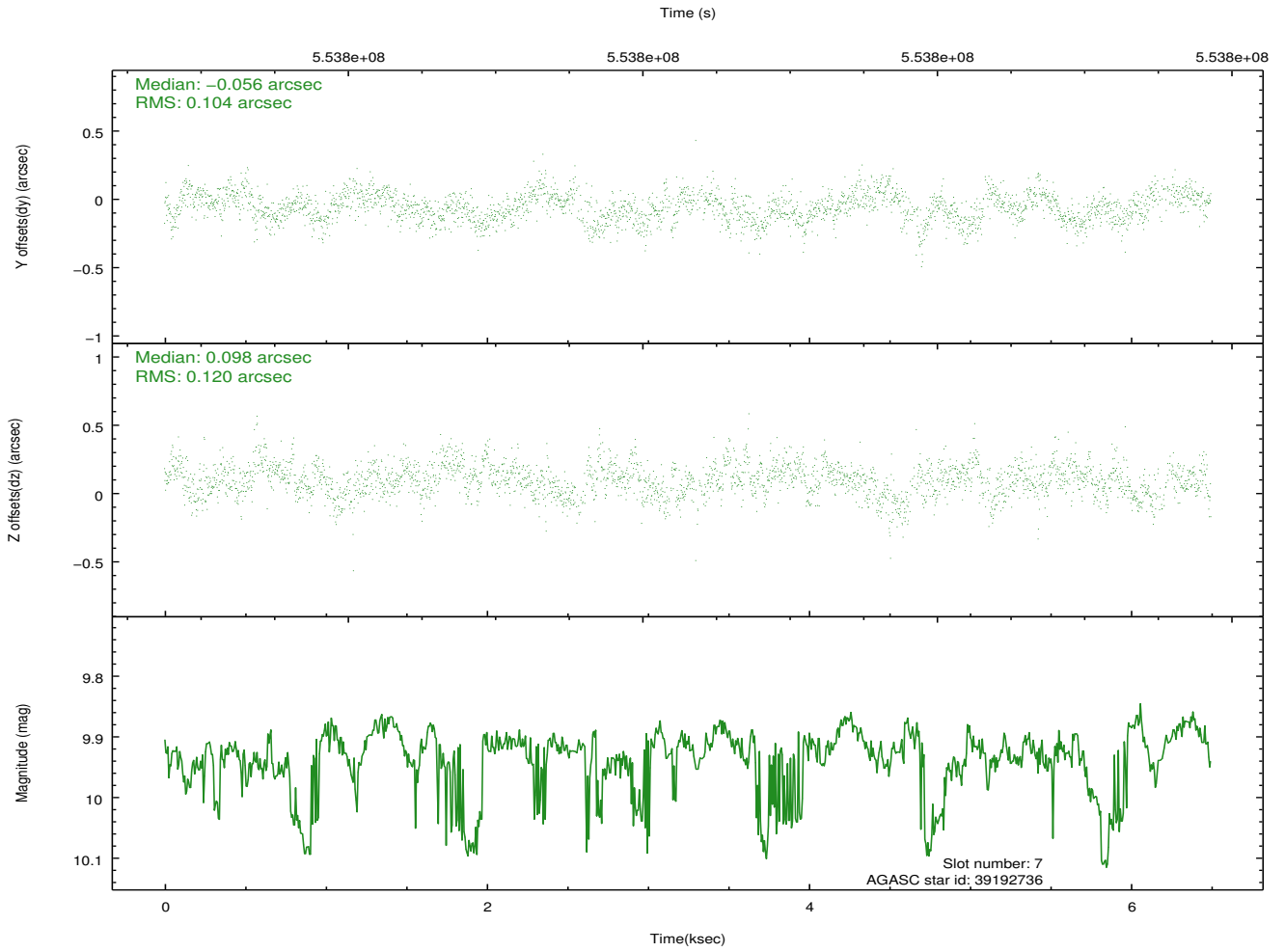
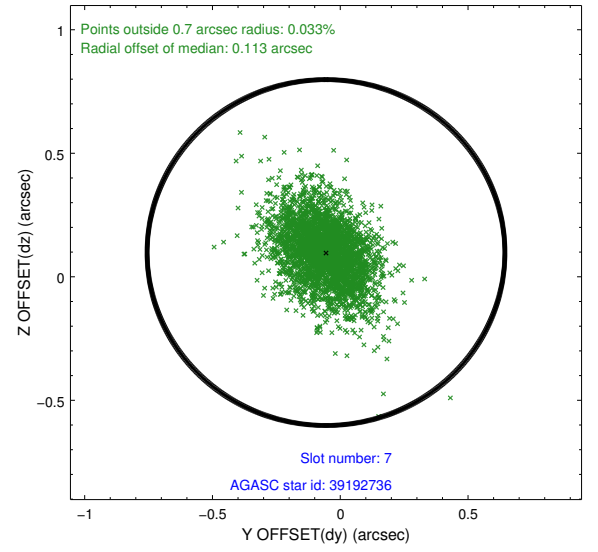
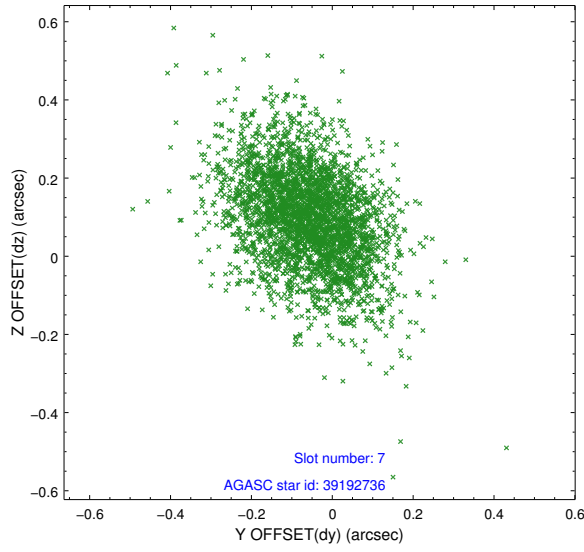
2.4.3 Slot 5



2.4.4 Slot 6

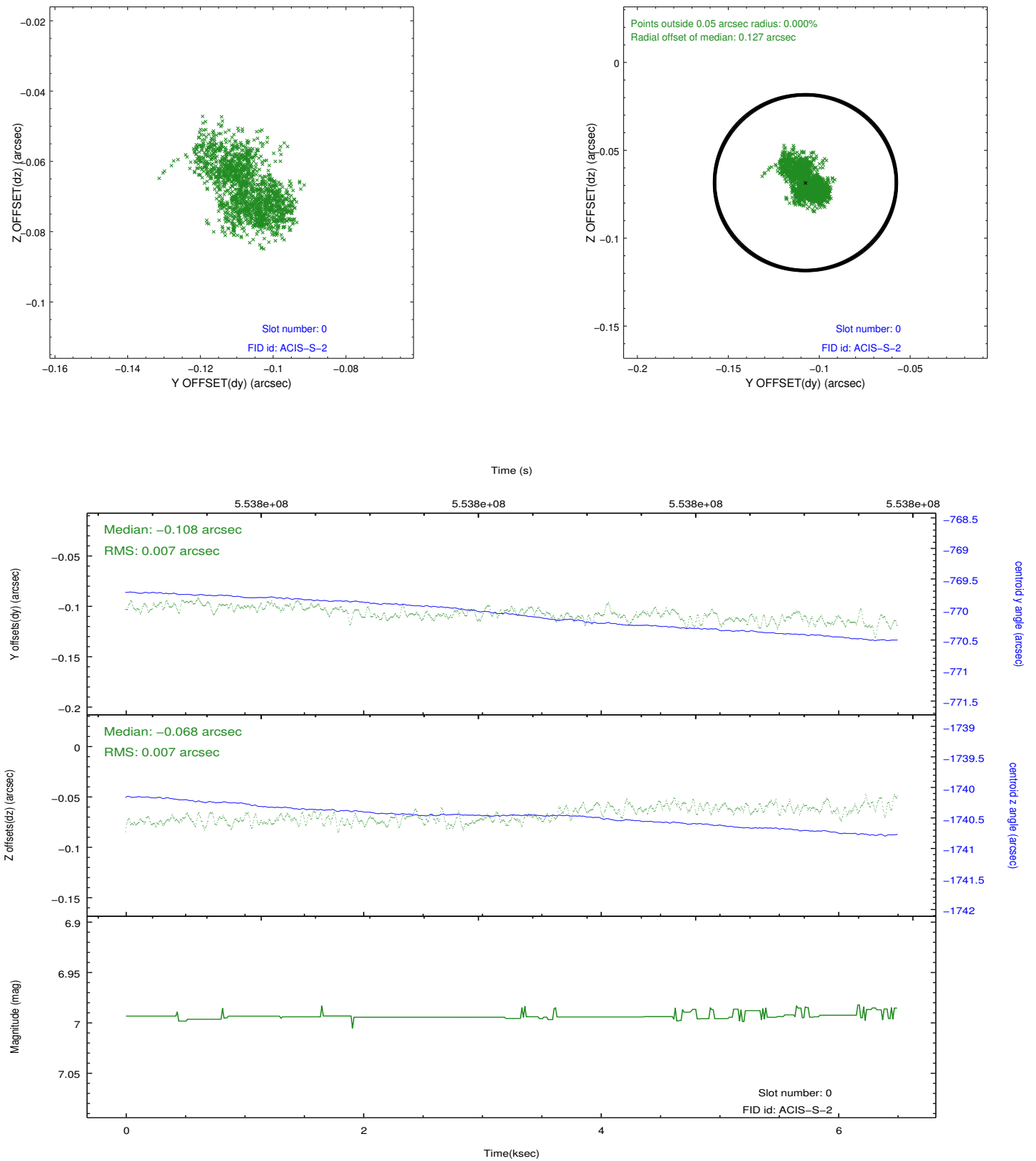


2.4.5 Slot 7

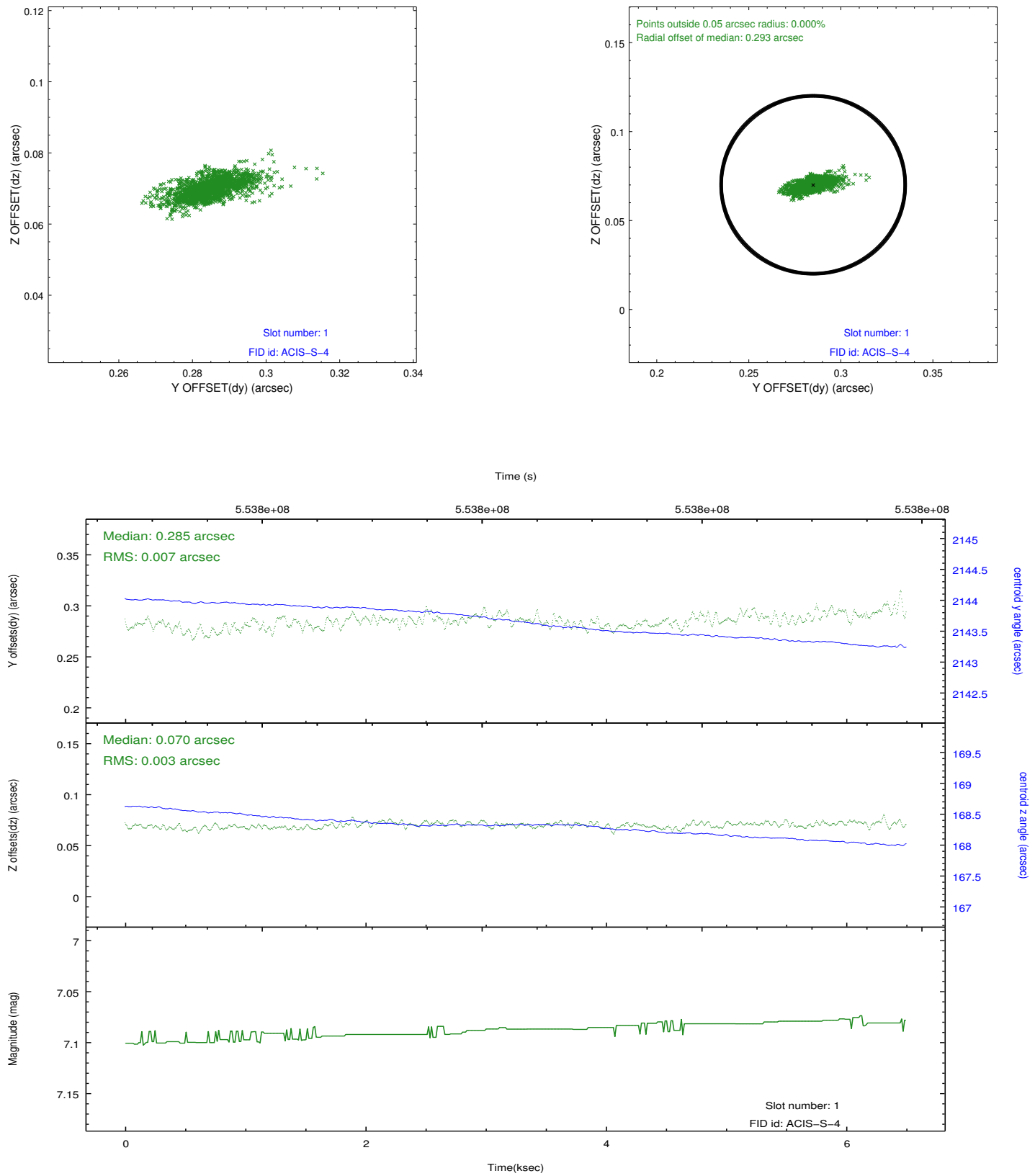


2.5 FID Slots

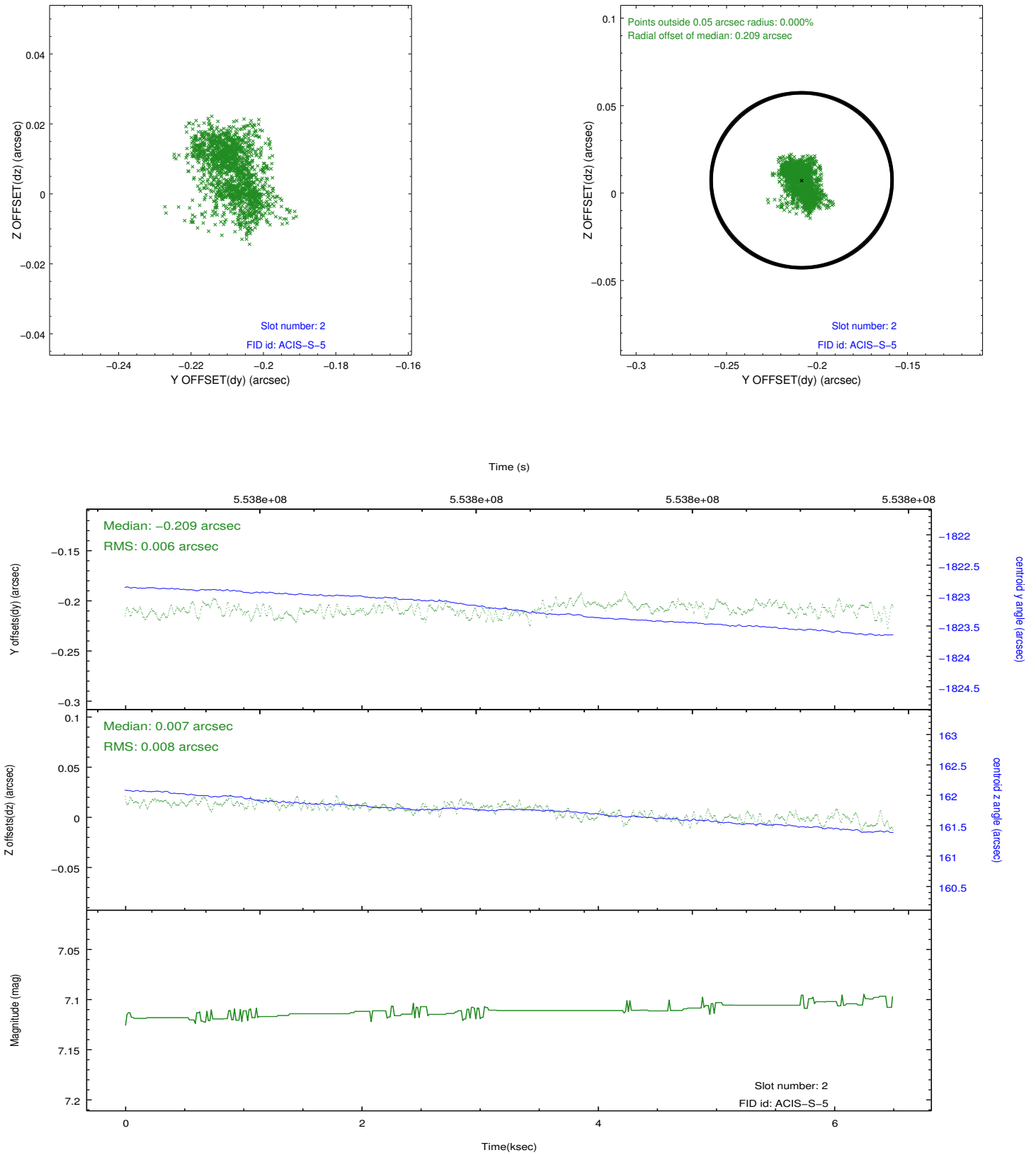
2.5.1 Slot 0



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)	2015.07.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.8494326865673

A.2 Comments