

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 16054 - L2 Version 1  
Chandra X-Ray Center

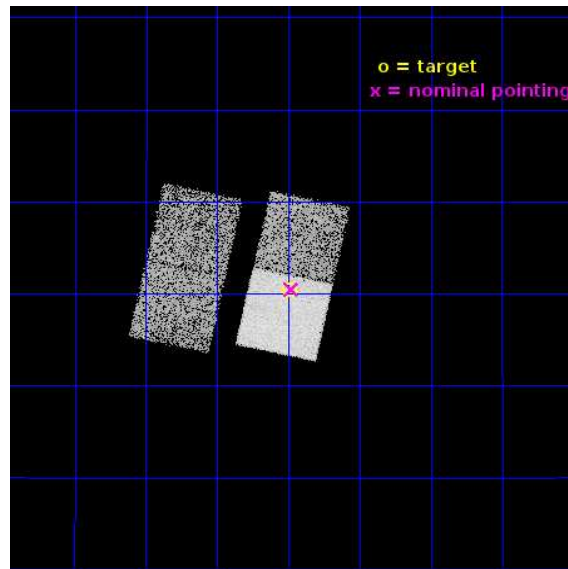
L2 Processing Date : Aug 16 2014

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
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
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

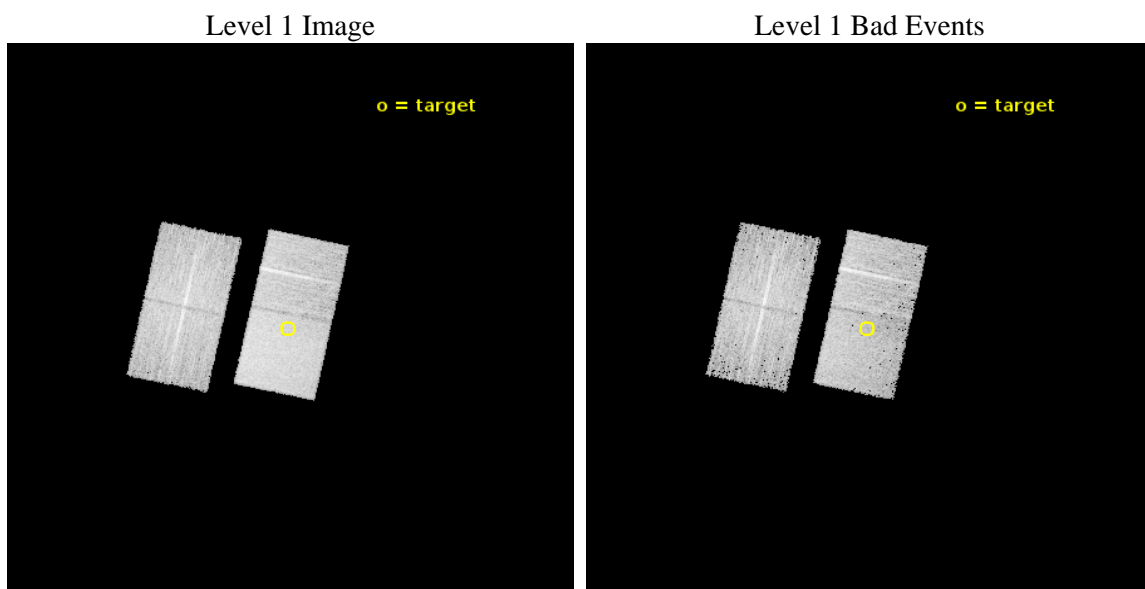
seq_num	702948	Sequence number
obs_id	16054	Observation id
title	Continuing the Chandra 3CR Snapshot Survey: 23 Radio Sources with 0.5	Proposal title
observer	Dr. Francesco Massaro	Principal investigator
object	3C142.1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	82.8725	Observer's specified target RA [deg]
dec_targ	6.506917	Observer's specified target Dec [deg]
ra_nom	82.869598427861	Nominal RA [deg]
dec_nom	6.5079975161061	Nominal Dec [deg]
roll_nom	102.33696864129	Nominal Roll [deg]
revision	1	Processing version of data
ontime	12077.600092888	Sum of GTIs [s]
livetime	11919.797356274	Livetime [s]
ontime2	12077.600092888	Sum of GTIs [s]
ontime3	12077.600092888	Sum of GTIs [s]
ontime6	12077.600092888	Sum of GTIs [s]
ontime7	12077.600092888	Sum of GTIs [s]
l2events	52009	Number of level 2 events



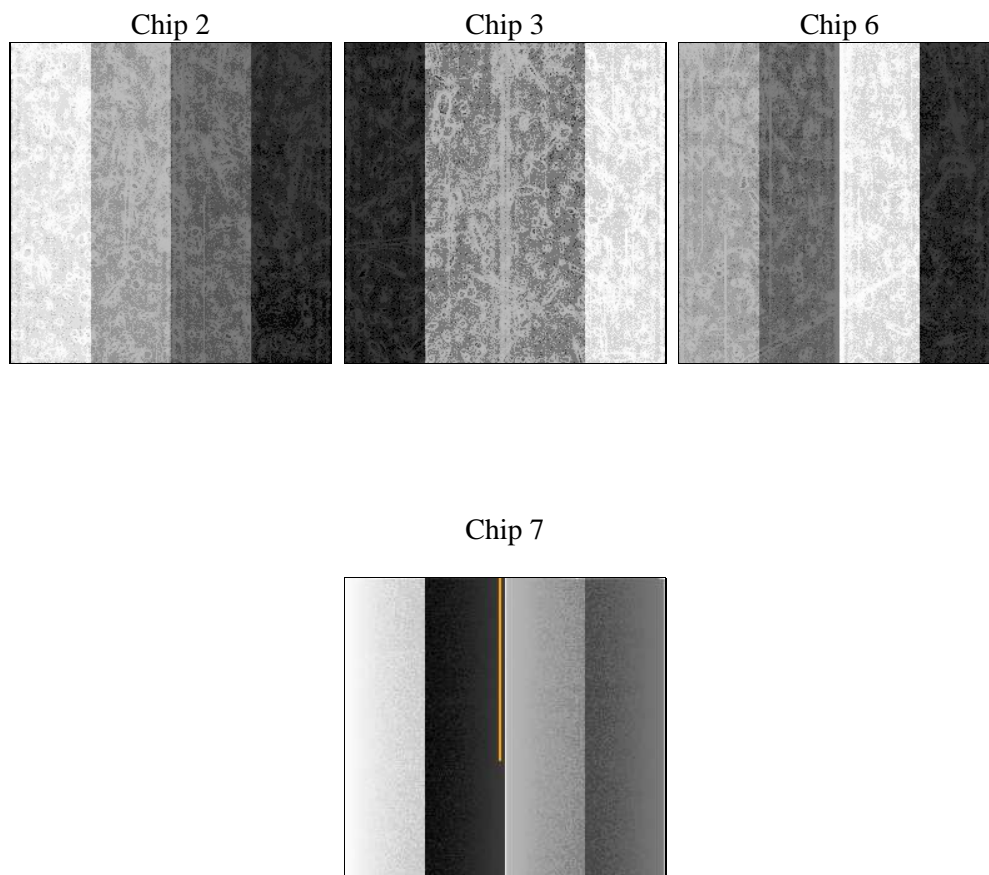
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.702000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	12077.600092888	Sum of GTIs [s]
caldsver	4.6.2	&#160	ontime2	12077.600092888	Sum of GTIs [s]
date	2014-08-17T02:17:32	Date and time of file creation	ontime3	12077.600092888	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	12077.600092888	Sum of GTIs [s]
			ontime7	12077.600092888	Sum of GTIs [s]
			l1events	251390	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	58030	53805	58805	80750
rejected events	51240	47229	51569	45666
rejected %	88%	87%	87%	56%

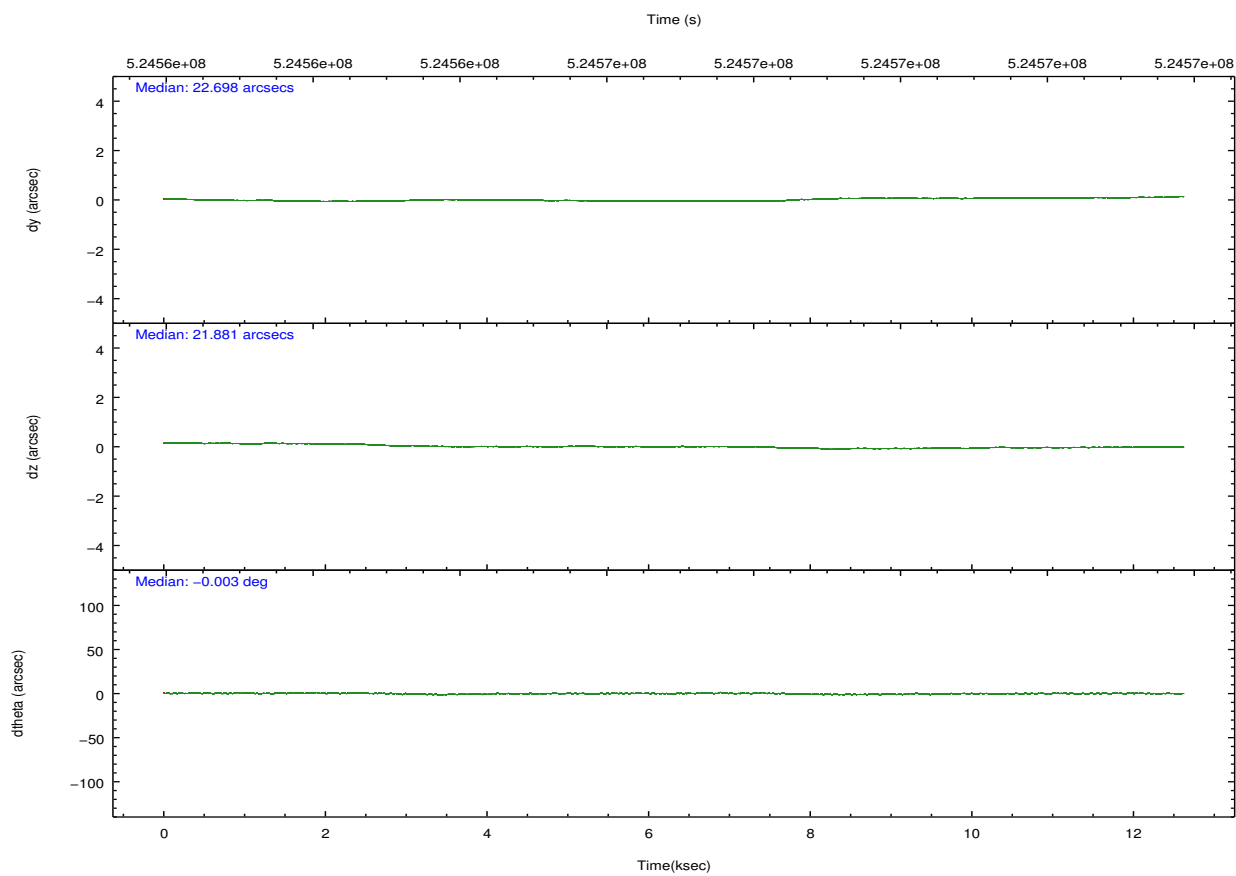
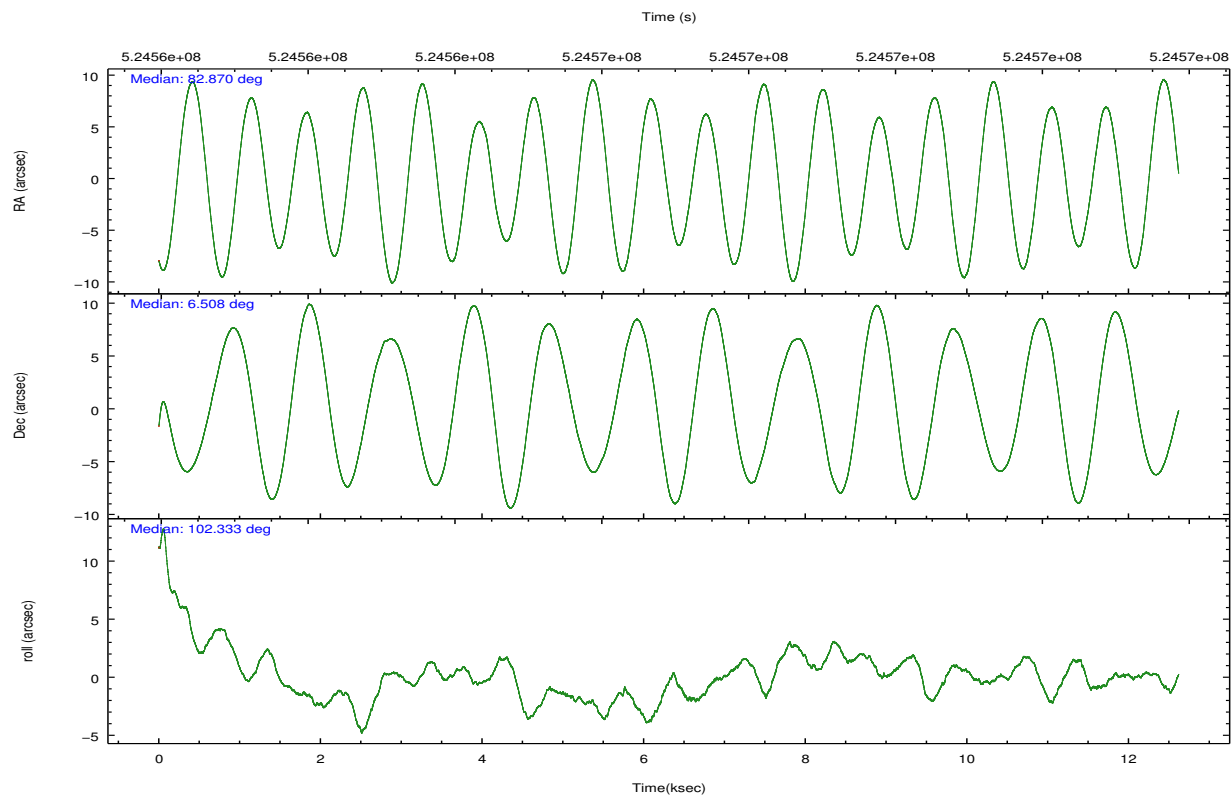
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2403	2463	2445	3087
	4%	4%	4%	3%
grade 1 events	33	40	29	112
	0%	0%	0%	0%
grade 2 events	1653	1438	1678	7166
	2%	2%	2%	8%
grade 3 events	678	660	706	3104
	1%	1%	1%	3%
grade 4 events	710	678	730	3072
	1%	1%	1%	3%
grade 5 events	2595	3146	3100	8478
	4%	5%	5%	10%
grade 6 events	1347	1339	1683	18667
	2%	2%	2%	23%
grade 7 events	48611	44041	48434	37064
	83%	81%	82%	45%



## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	82.888448	82.86959842786054	CCD I2 on	O1	Y
[deg] Pointing Dec	6.488000	6.507997516106078	CCD I3 on	O2	Y
[deg] Pointing Roll	102.178218	102.3369686412939	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	N	N
[s] Observation start time (MET)	524561229.184000	524560134.07786	CCD S5 on	N	N
Observation start date	2014-08-16T07:26:02	2014-08-16T07:08:54	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	524573230.184000	524573454.9786	On-chip summing requested	N	N
Observation end date	2014-08-16T10:46:03	2014-08-16T10:50:54	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect

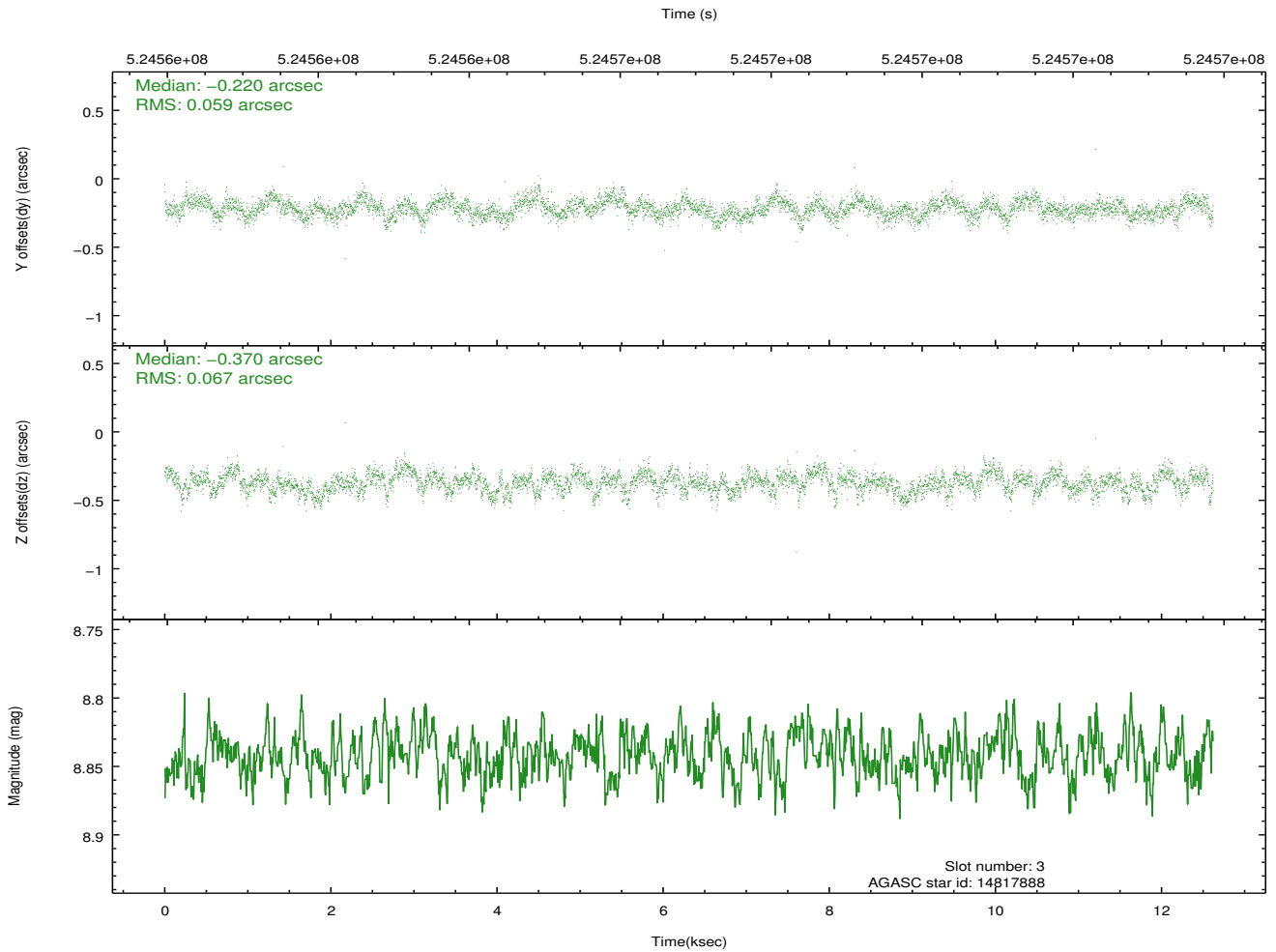
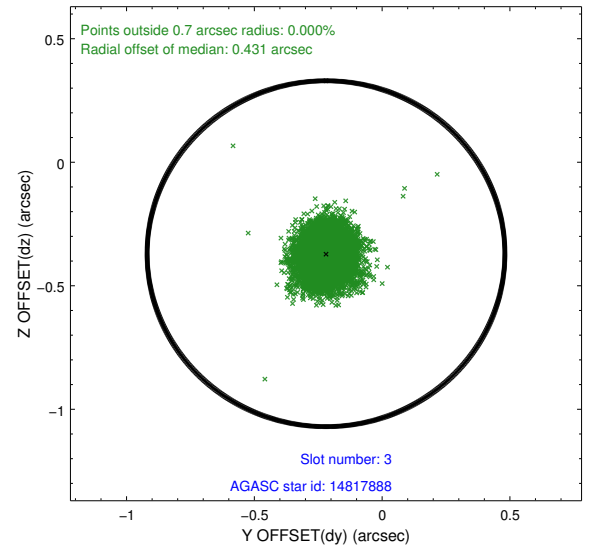
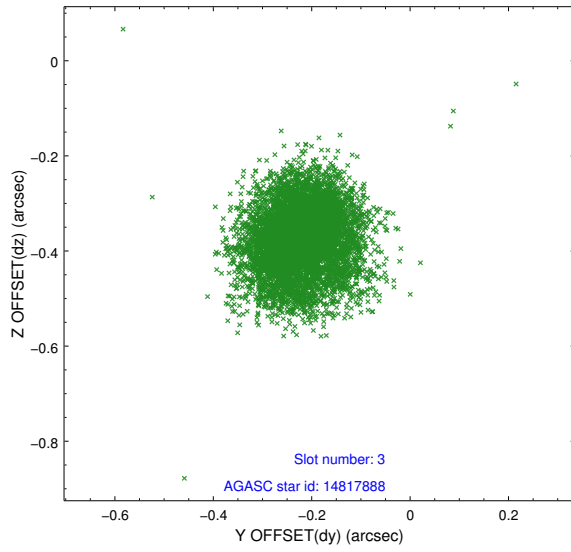


### Slot Statistics

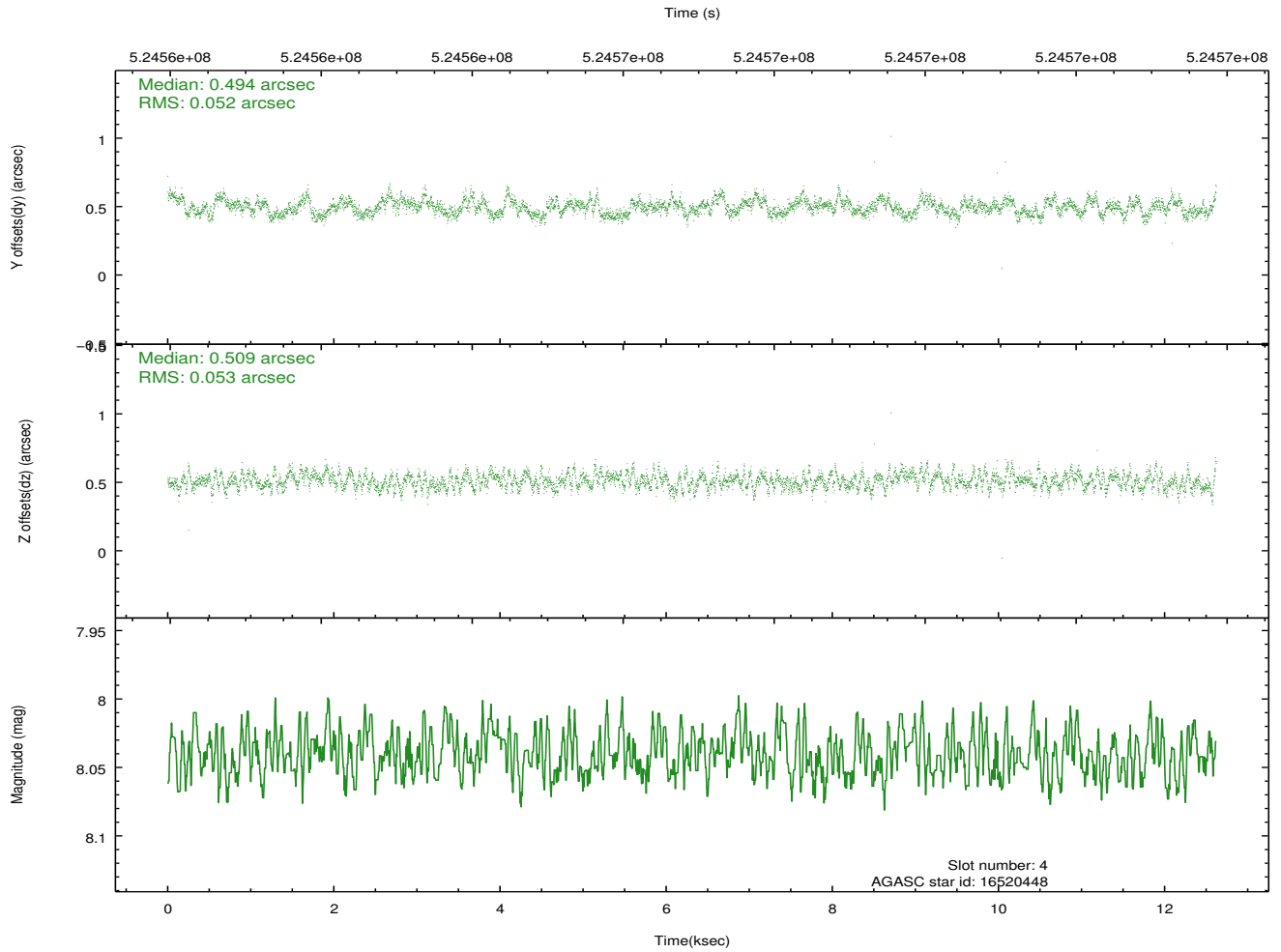
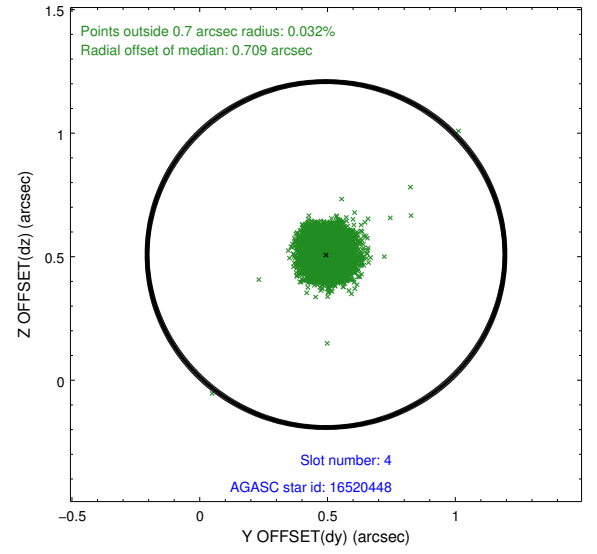
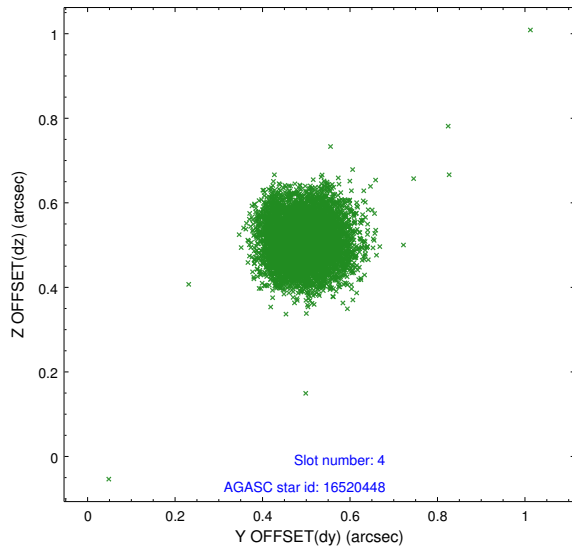
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.93	3079	-0.090	0.002	0.007	0.011	0.000000	0.000000	-776.00	-1743.39
1	FID	ACIS-S-4	7.01	3079	0.229	0.043	0.006	0.010	0.000000	0.000000	2137.44	164.69
2	FID	ACIS-S-5	7.05	3079	-0.170	-0.037	0.007	0.011	0.000000	0.000000	-1828.40	158.77
3	GUIDE	14817888	8.84	6152	-0.220	-0.370	0.094	0.152	82.419249	6.827930	1549.45	1380.39
4	GUIDE	16520448	8.04	6156	0.494	0.509	0.078	0.123	83.660089	6.126873	-1850.63	-2425.42
5	GUIDE	16523688	8.31	6155	-0.004	0.364	0.082	0.127	83.325926	6.805113	787.01	-1769.45
6	GUIDE	16524984	8.45	6154	-0.160	-0.334	0.099	0.155	82.715413	6.778482	1153.21	383.65
7	GUIDE	16525608	8.81	6155	-0.111	-0.160	0.109	0.163	82.596923	6.509481	296.33	1002.95

## 2.4 Star Slots

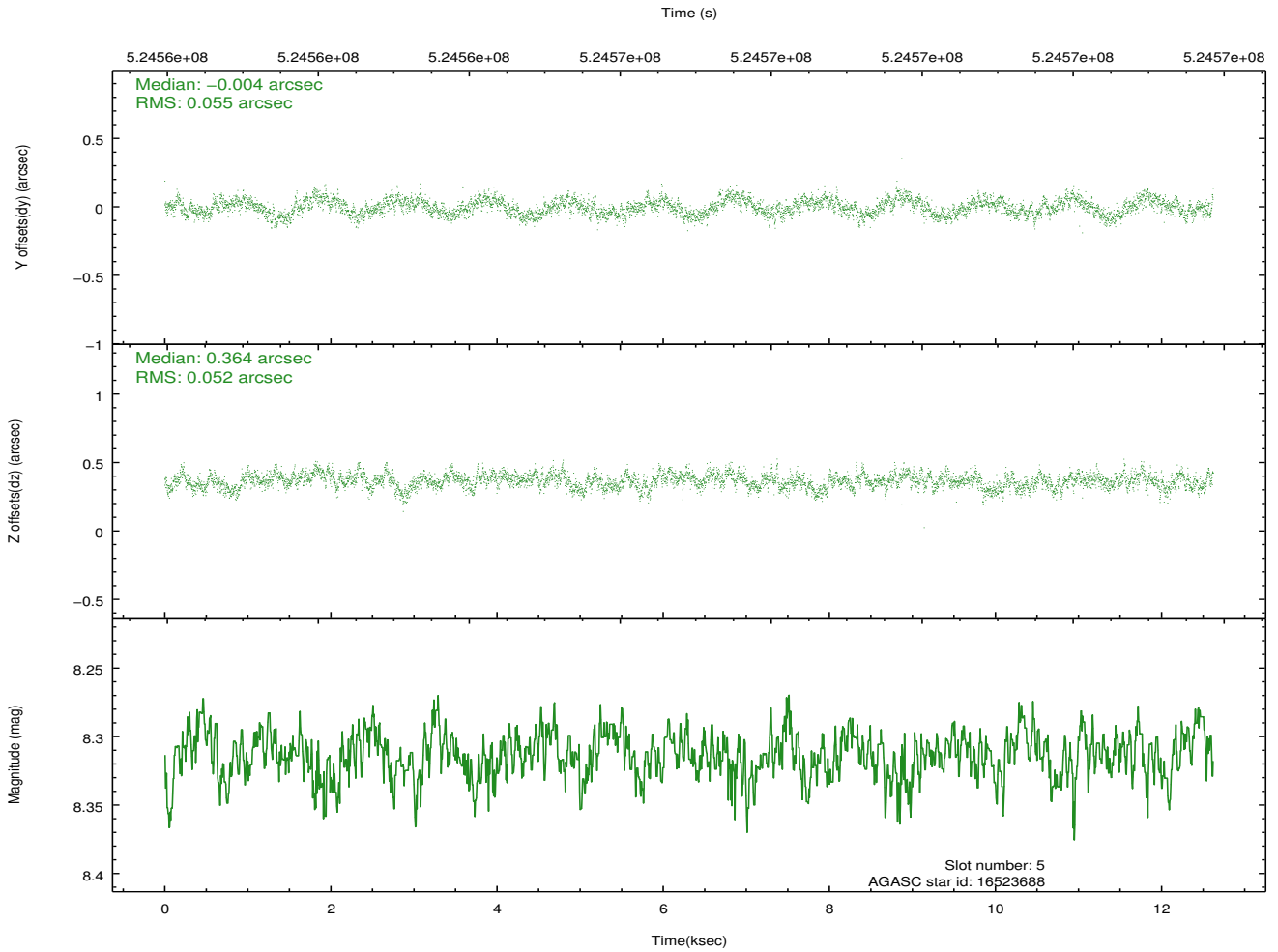
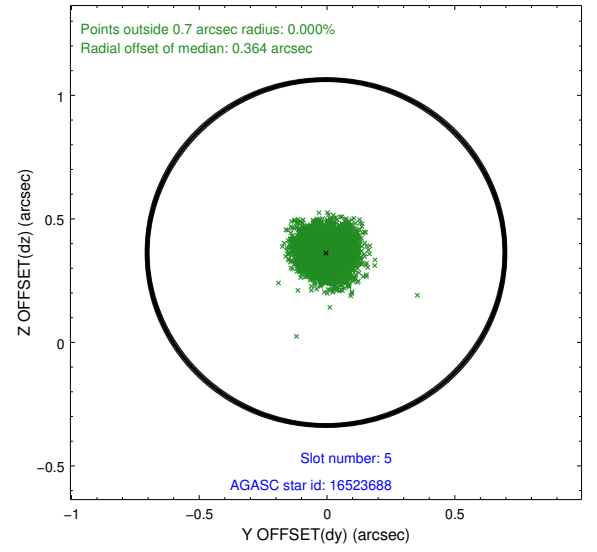
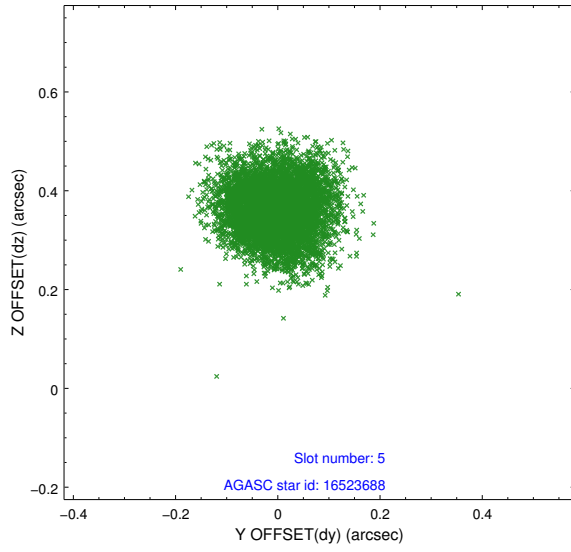
### 2.4.1 Slot 3



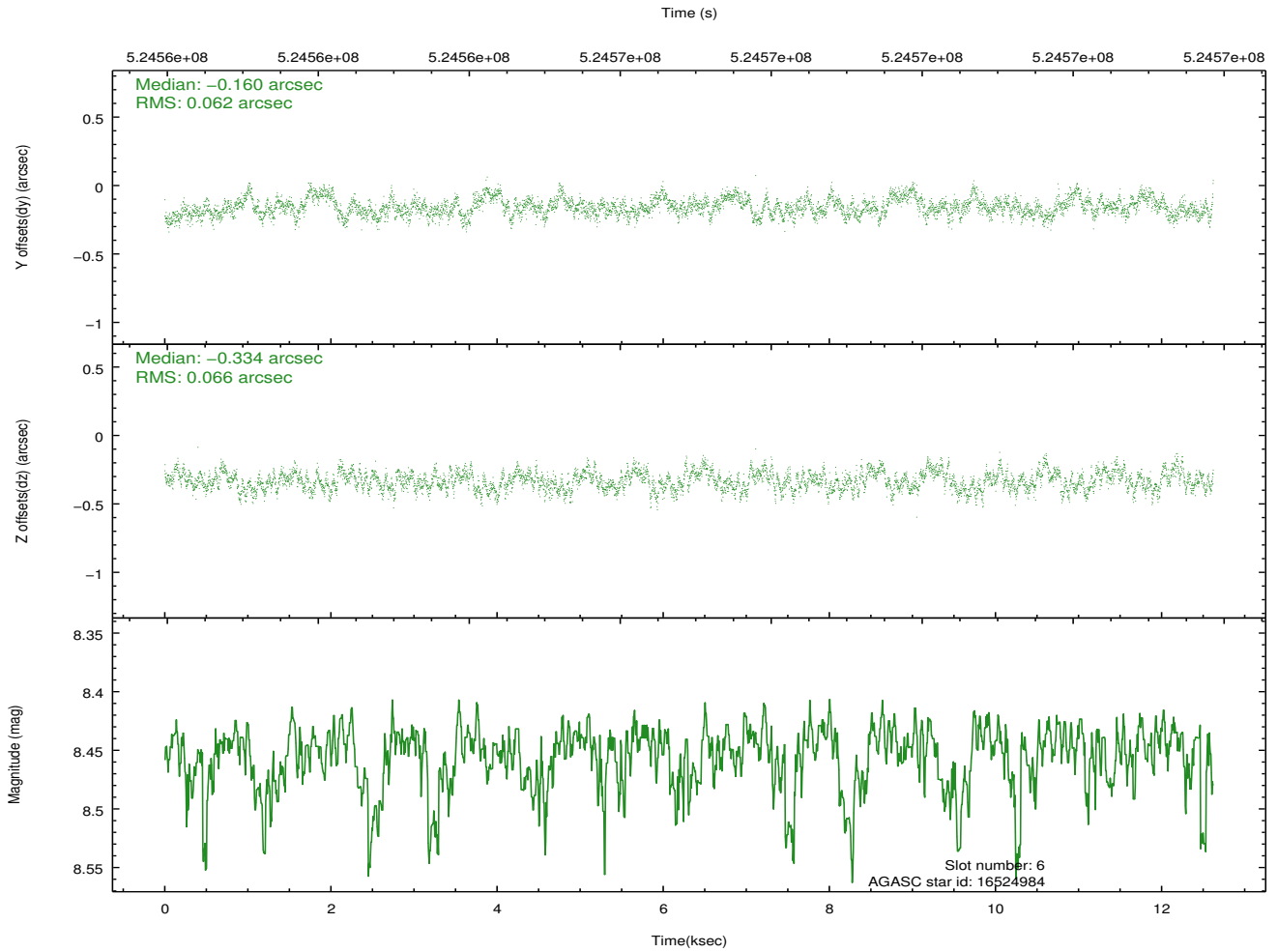
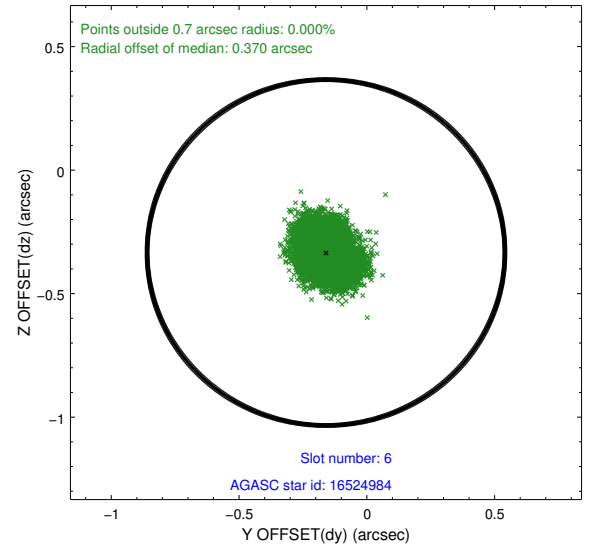
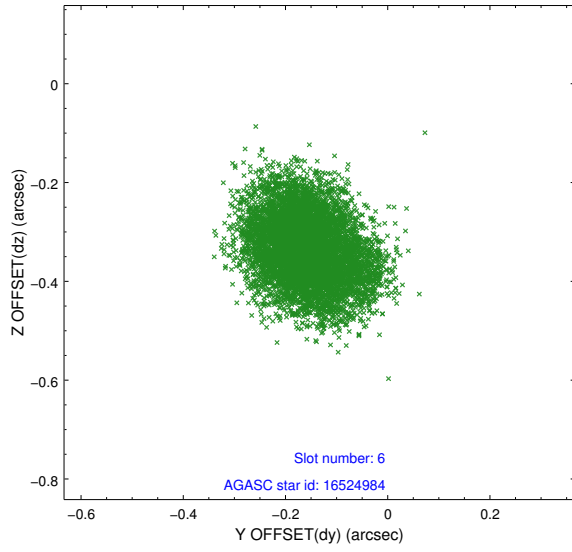
## 2.4.2 Slot 4



### 2.4.3 Slot 5

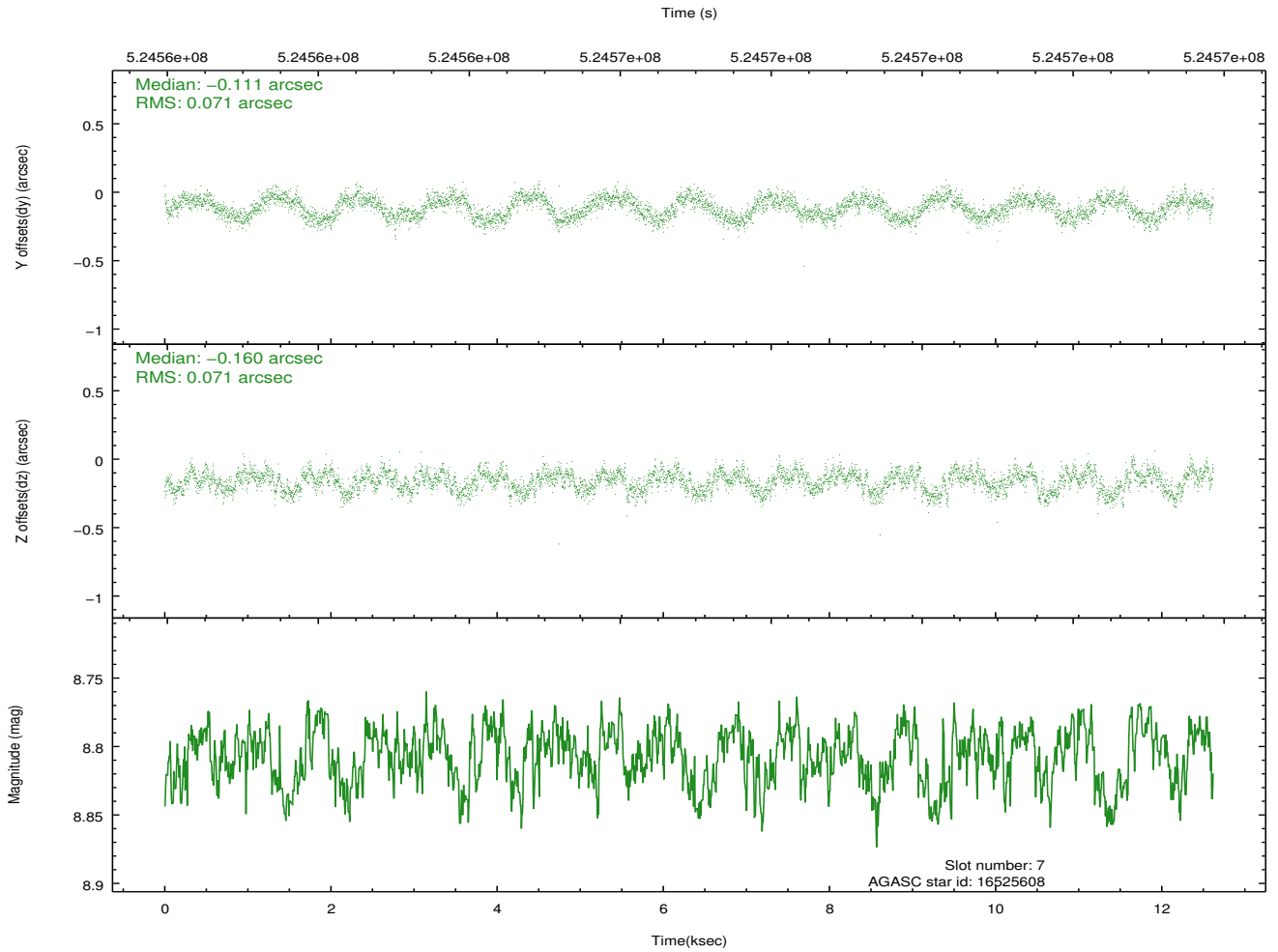
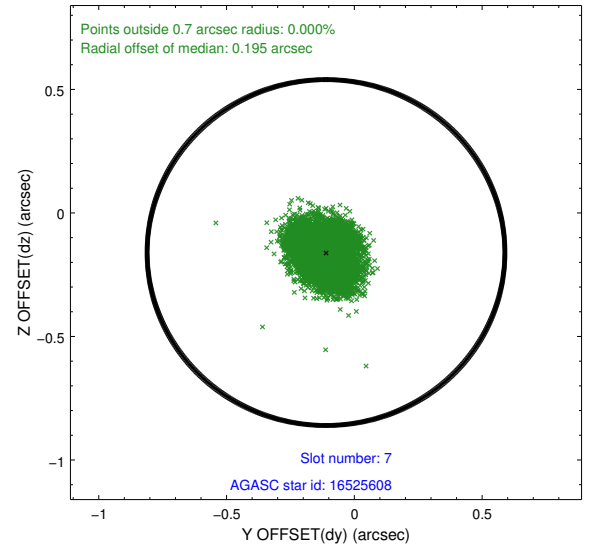
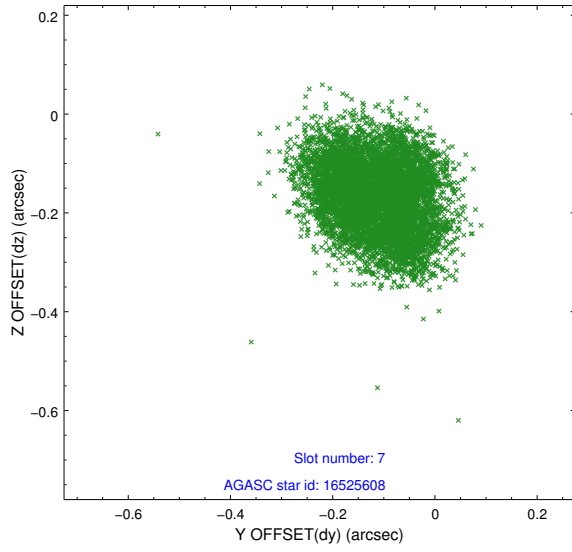


## 2.4.4 Slot 6



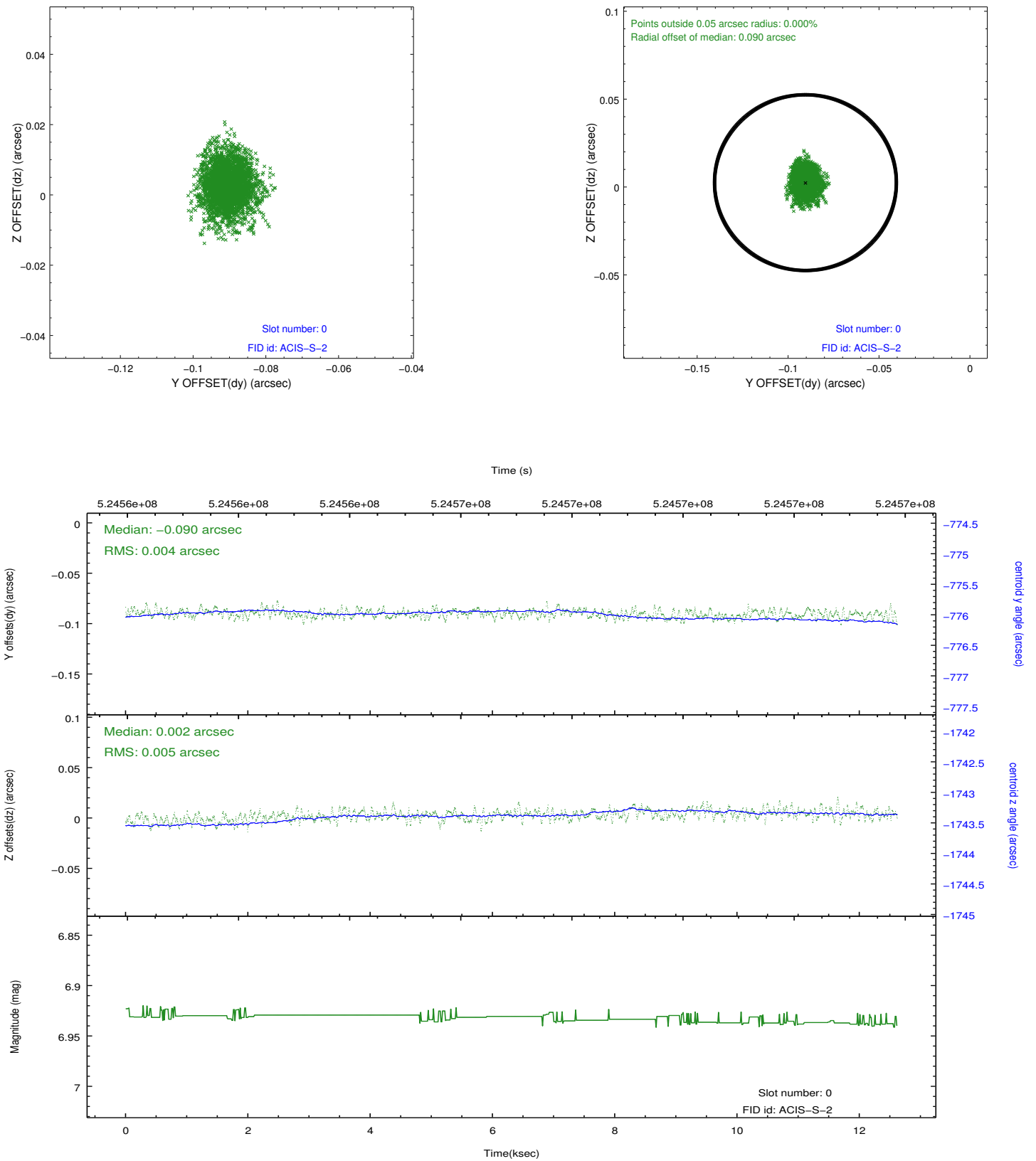


## 2.4.5 Slot 7

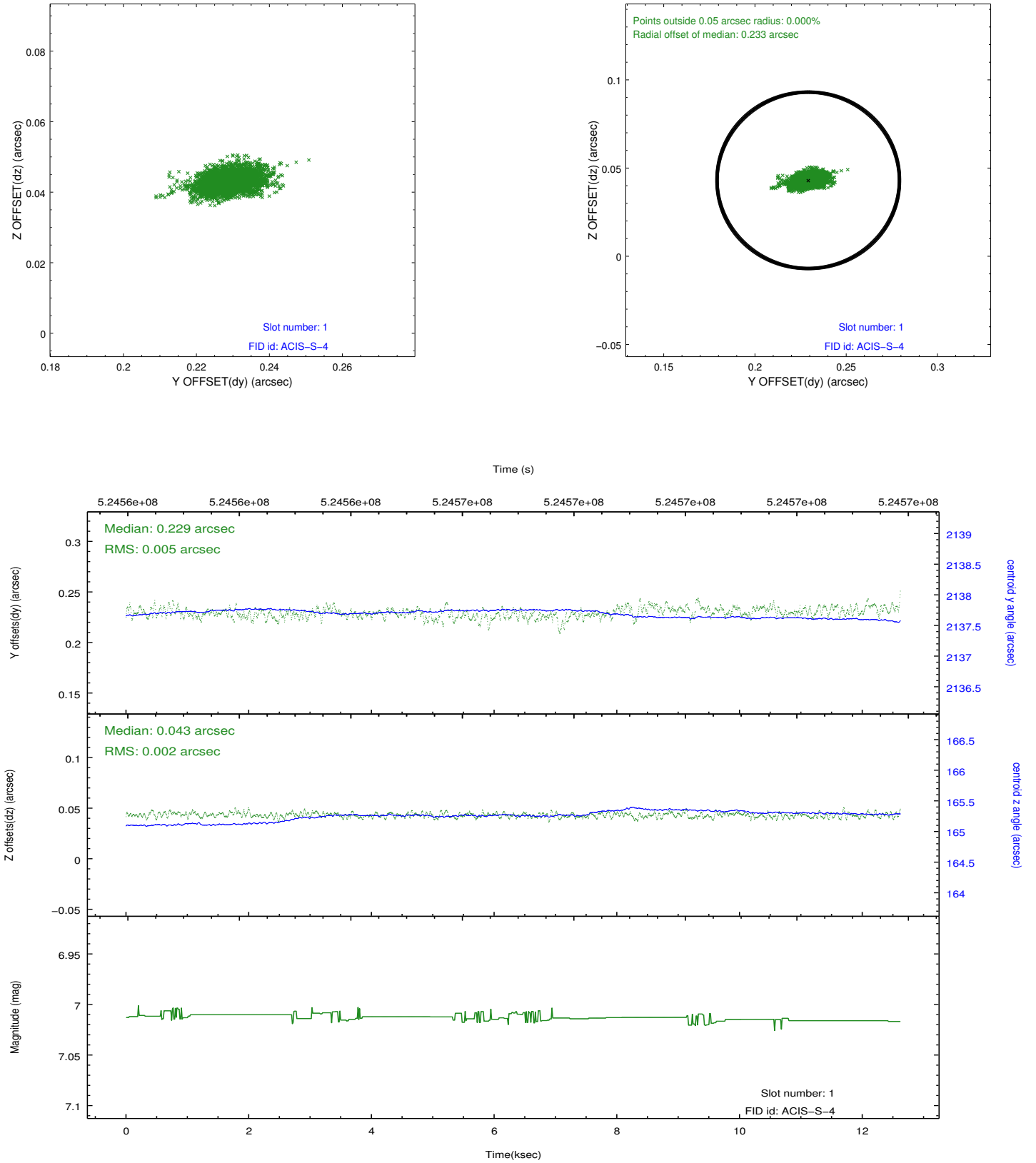


## 2.5 FID Slots

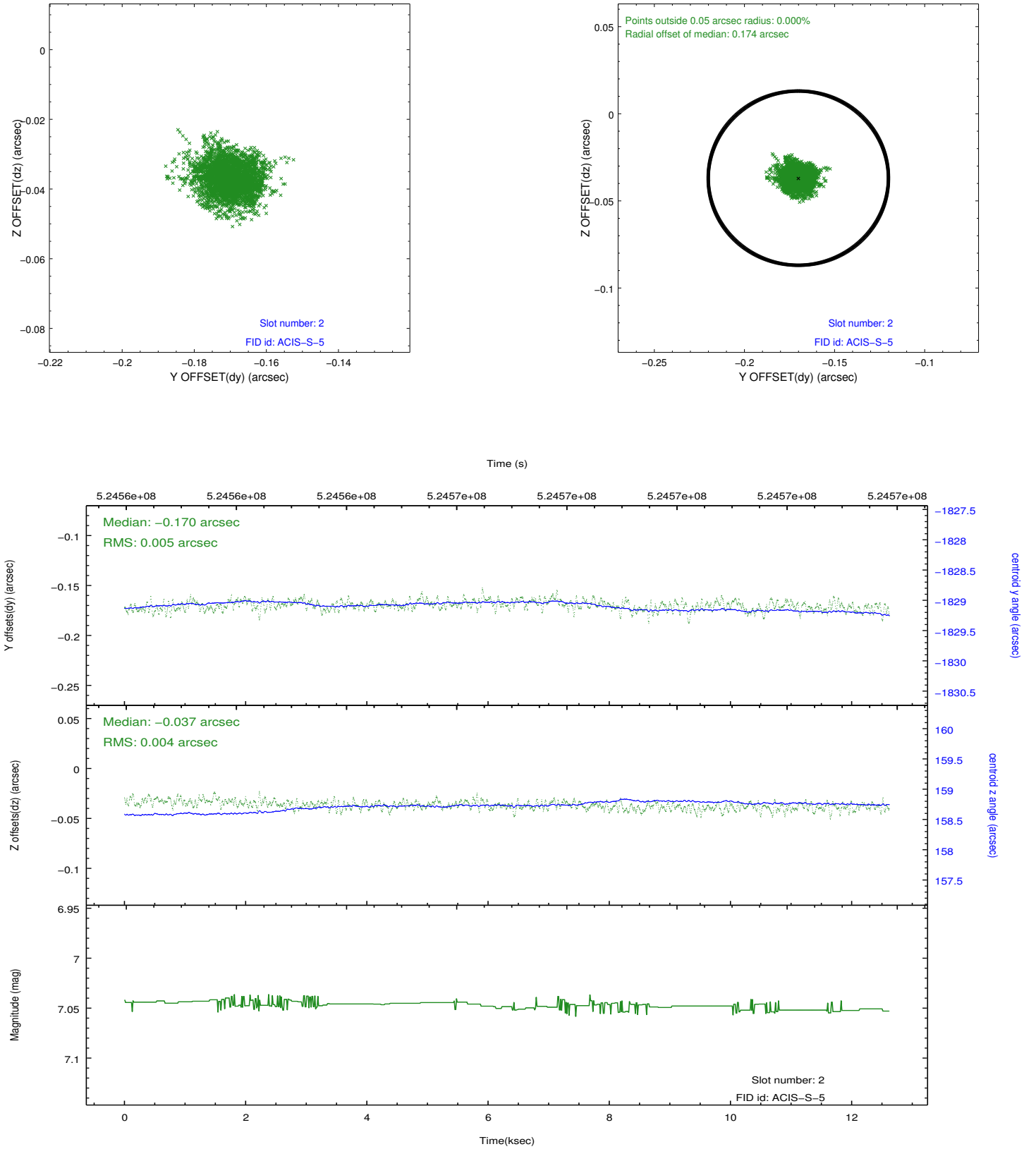
### 2.5.1 Slot 0



## 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)	2014.08.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.077600092888

### A.2 Comments