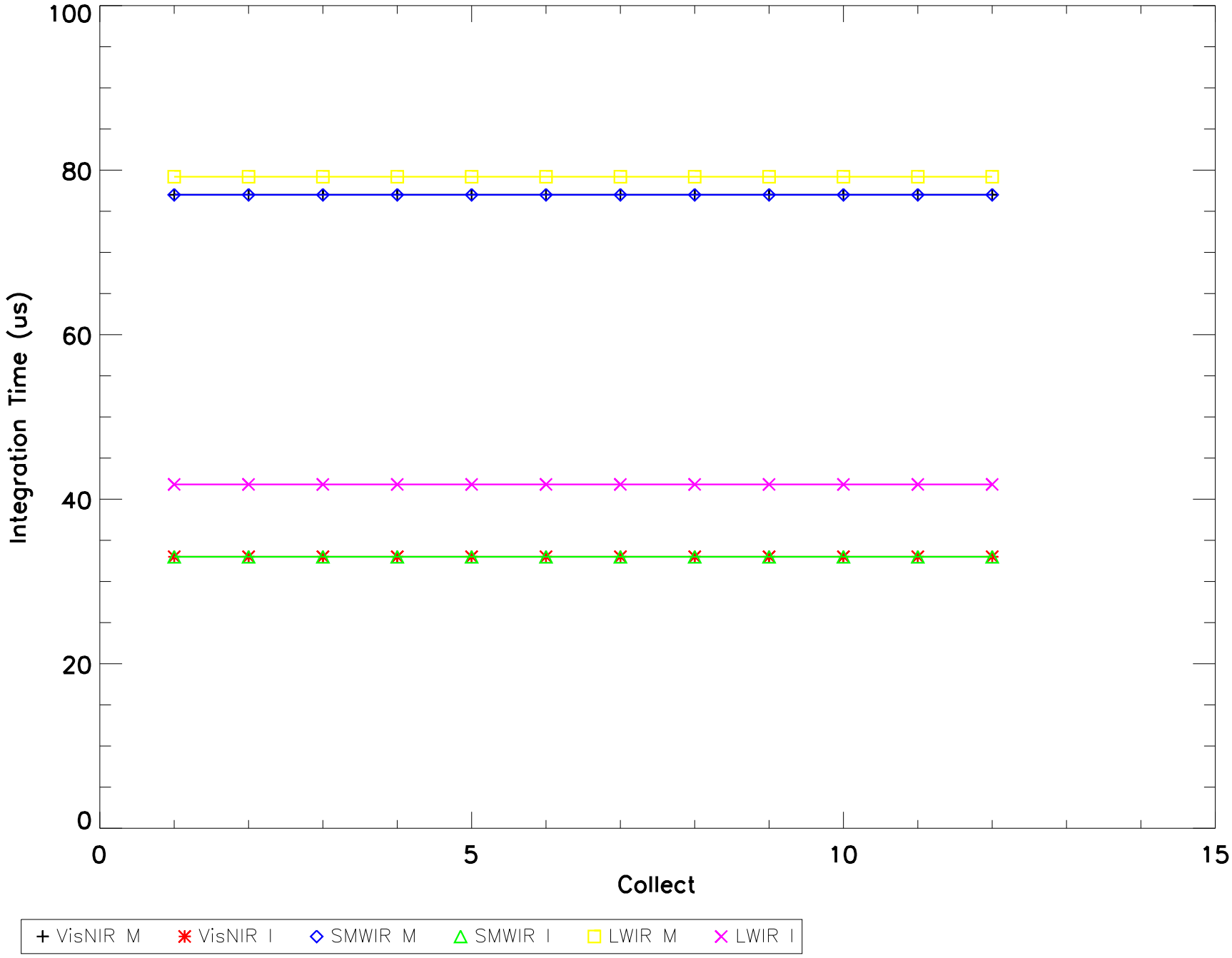
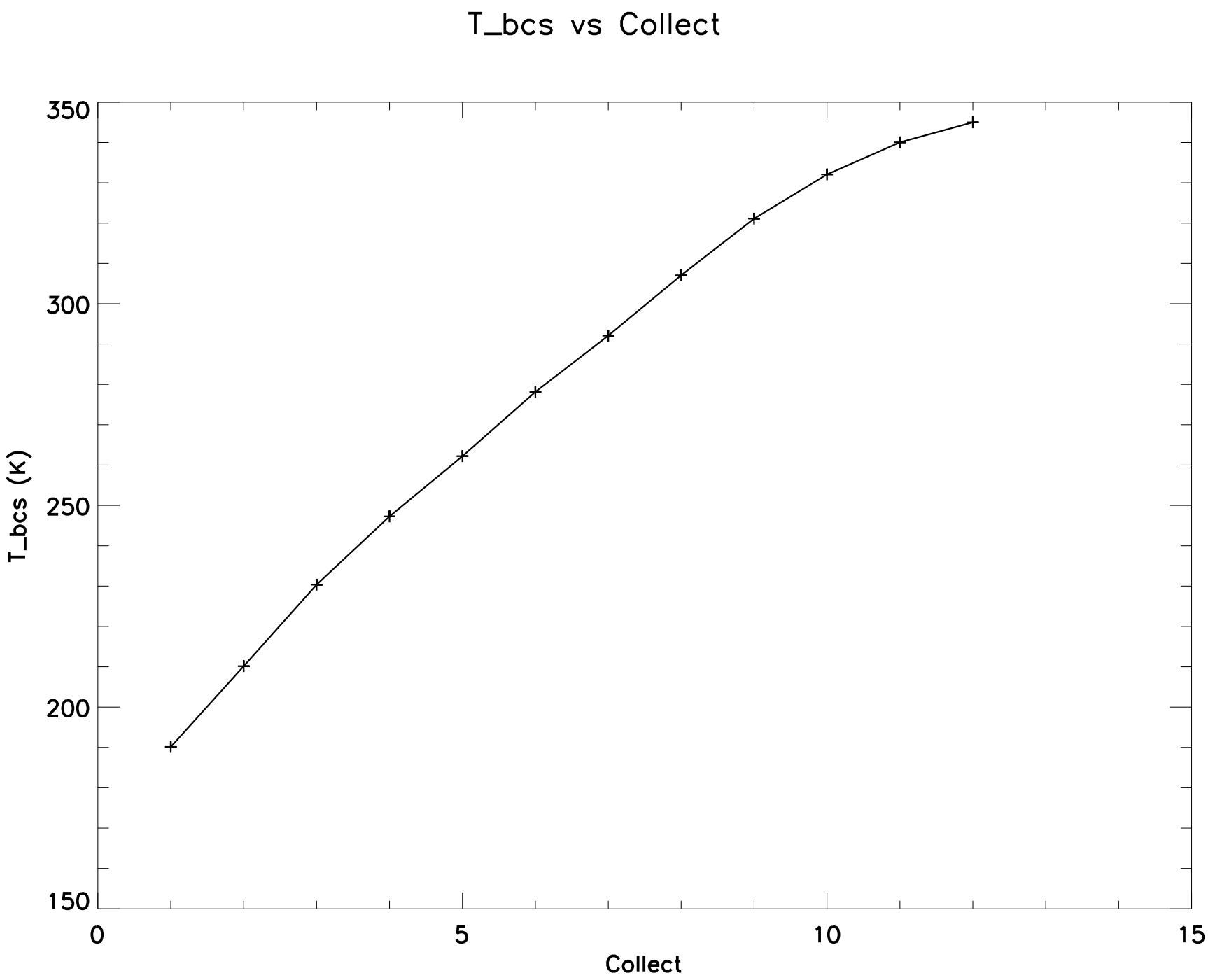
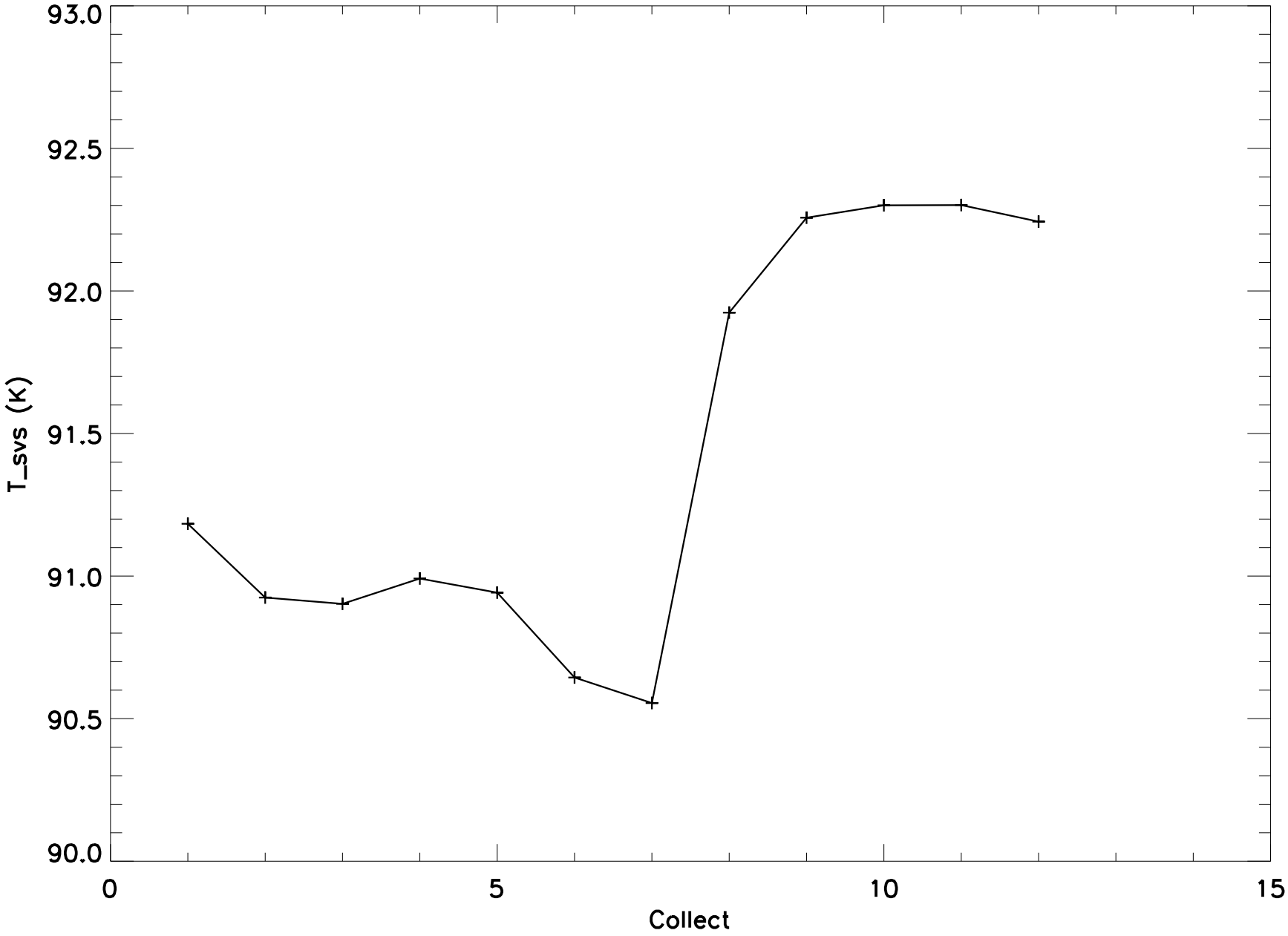
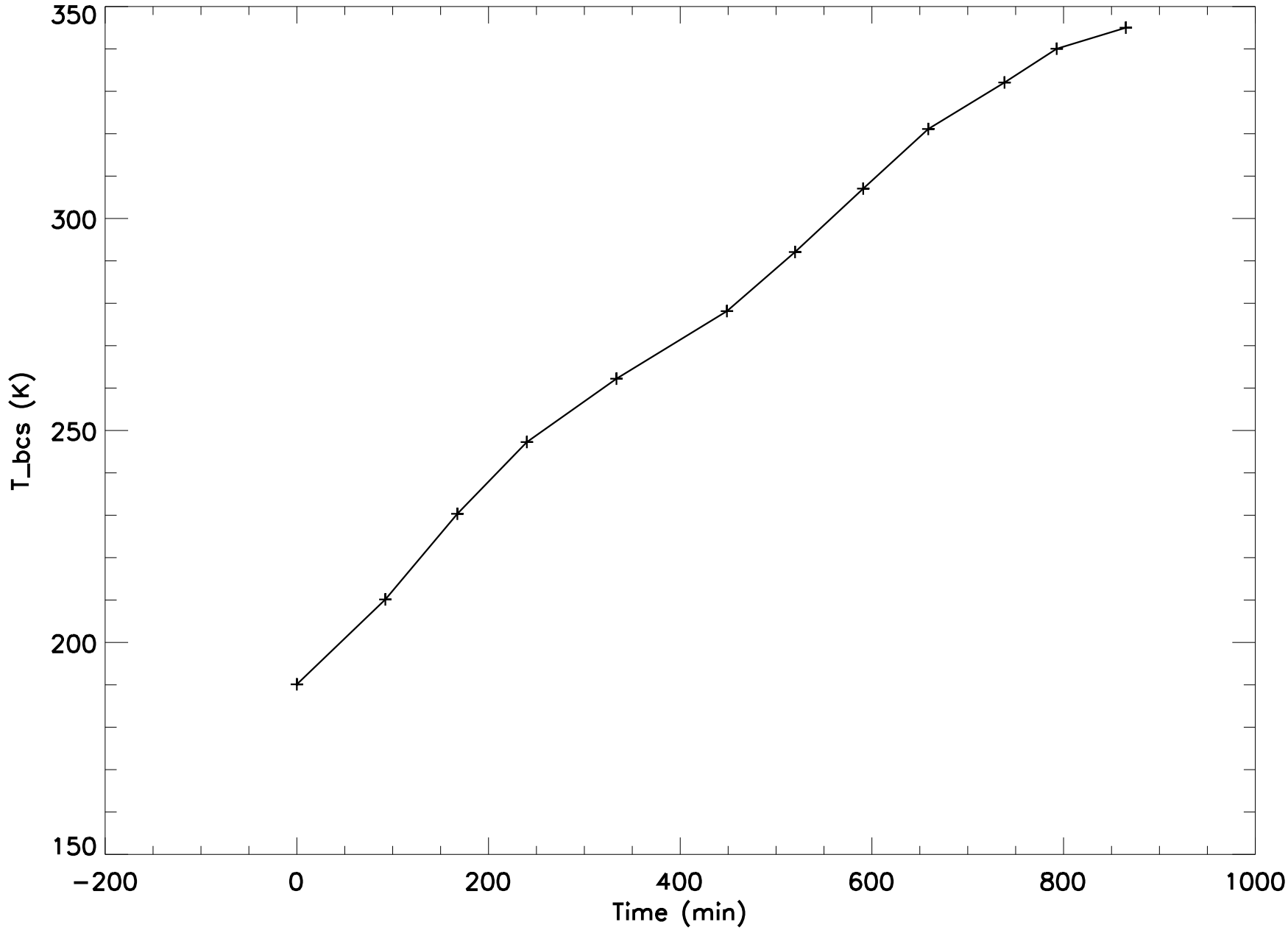
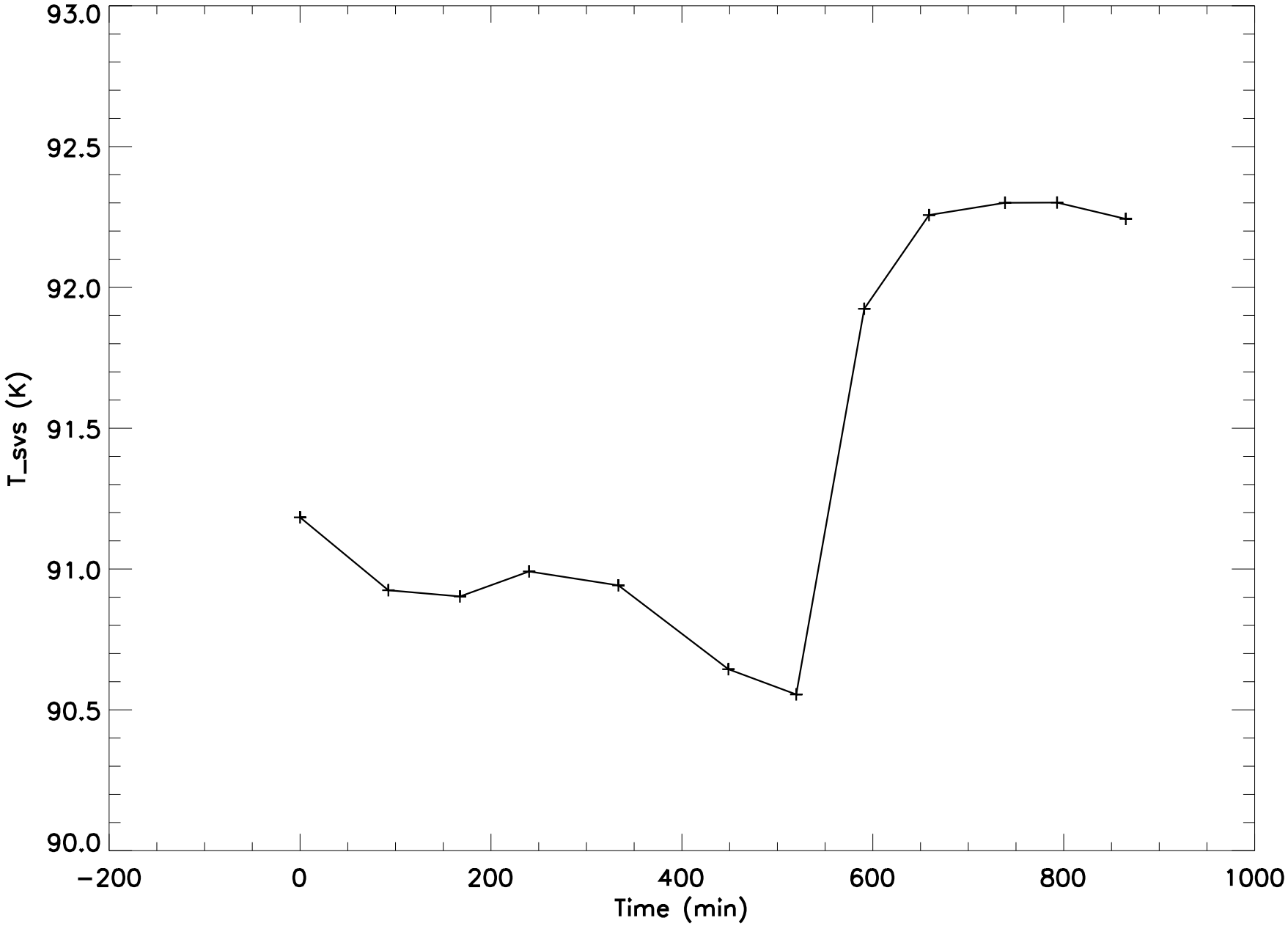
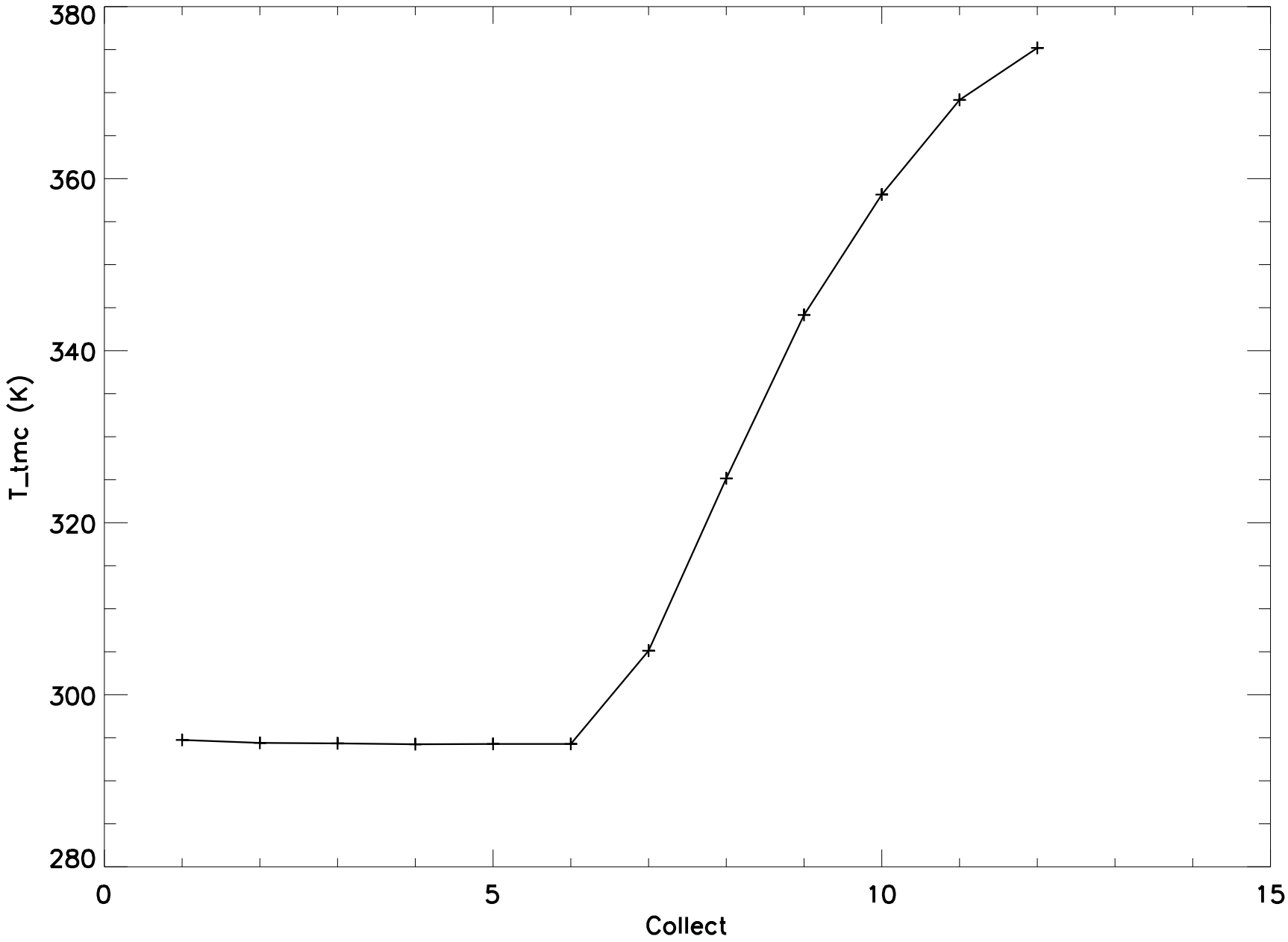

Integration Time vs Collect
Integration Time (us)
100
80
60
40
20
0
0
5
10
15
Collect
VisNIR M
VisNIR I
SMWIR M
SMWIR I
LWIR M
LWIR I

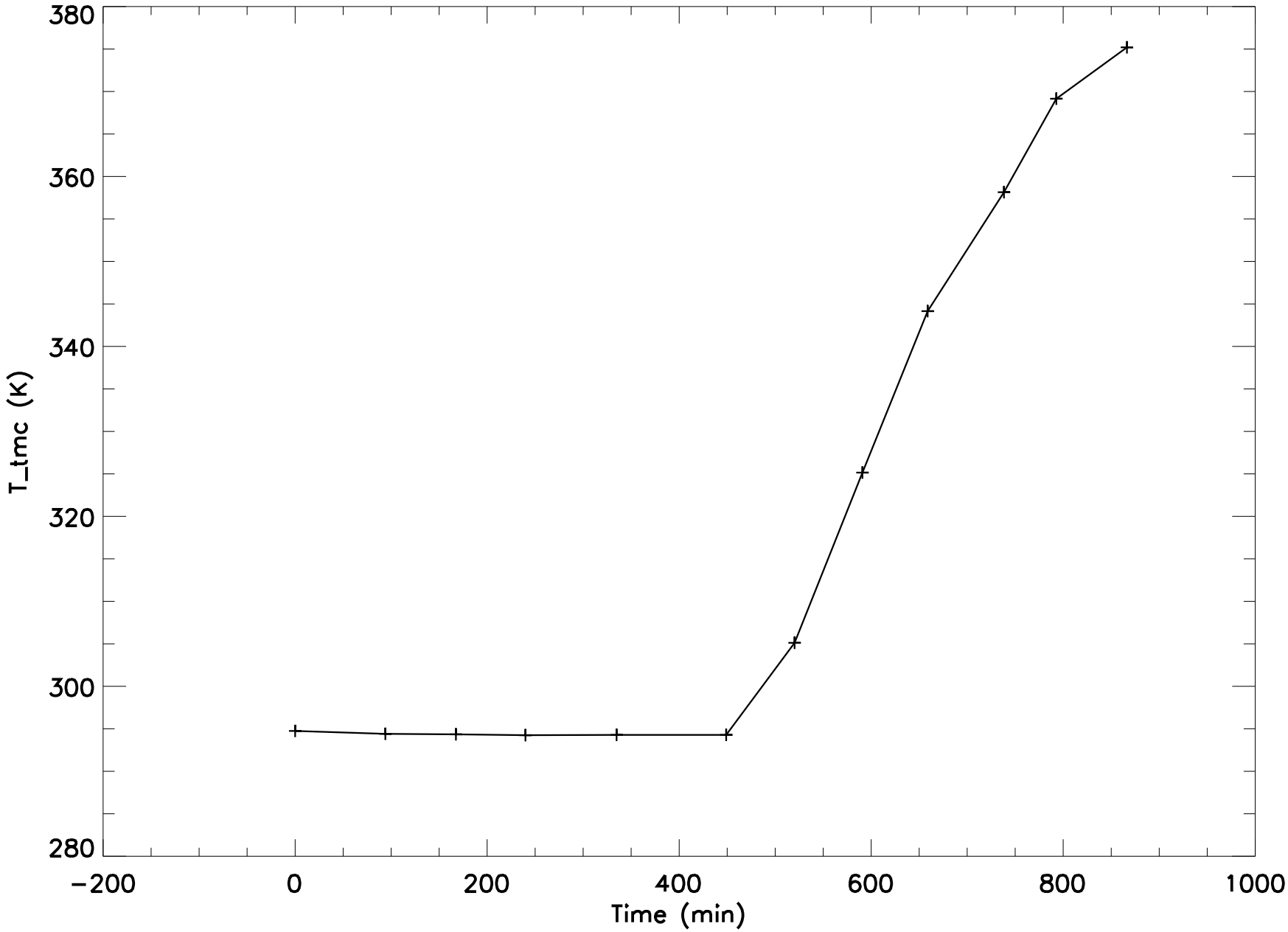

T_bcs vs Collect
350
300
250
200
150
T_bcs (K)
0
5
10
15
Collect

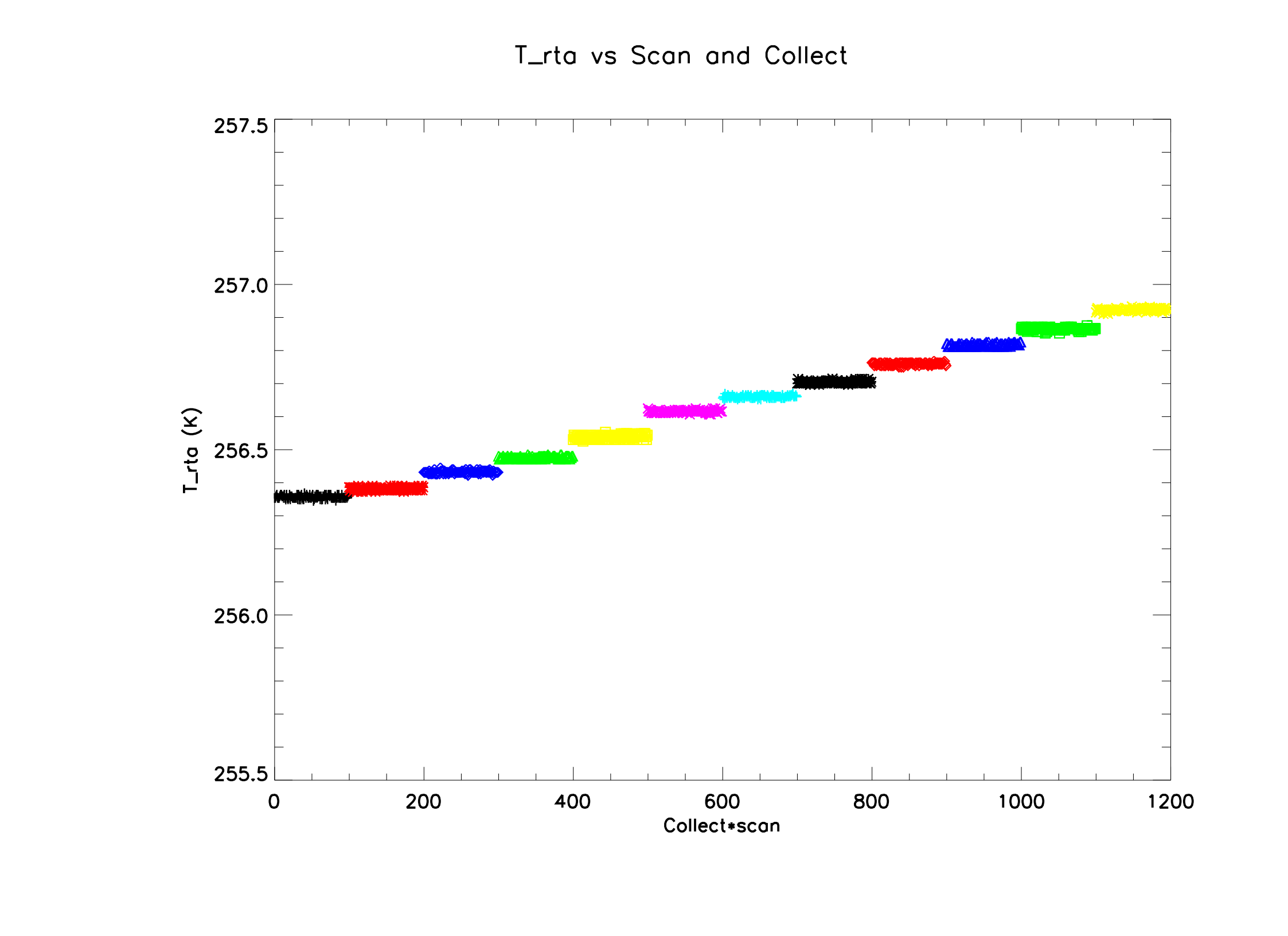

T_svs vs Collect
93.0
92.5
92.0
91.5
91.0
90.5
90.0
T_svs (K)
0
5
10
15
Collect

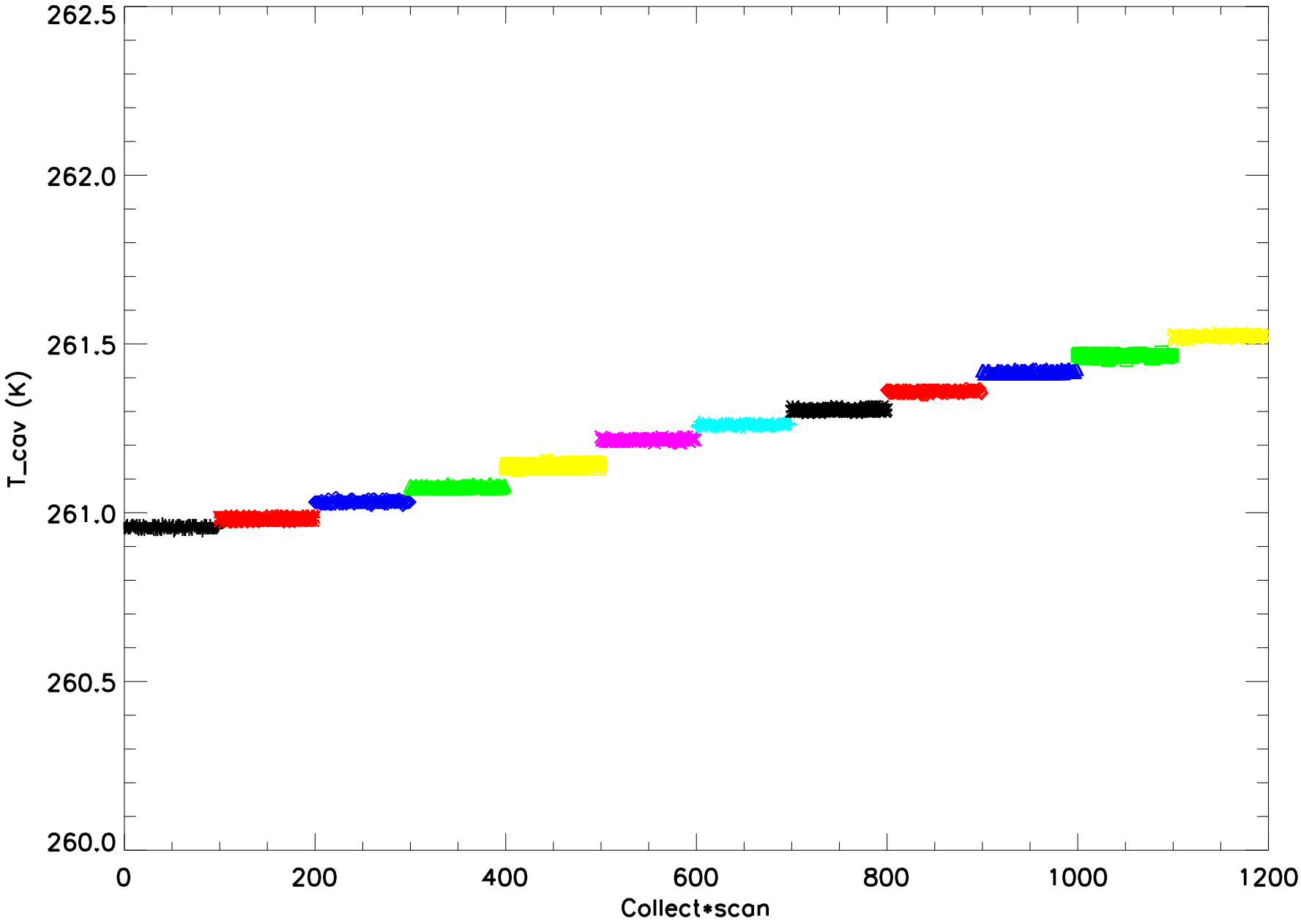

T_bcs vs Time
350
300
250
200
150
T_bcs (K)
−200
0
200
400
600
800
1000
Time (min)

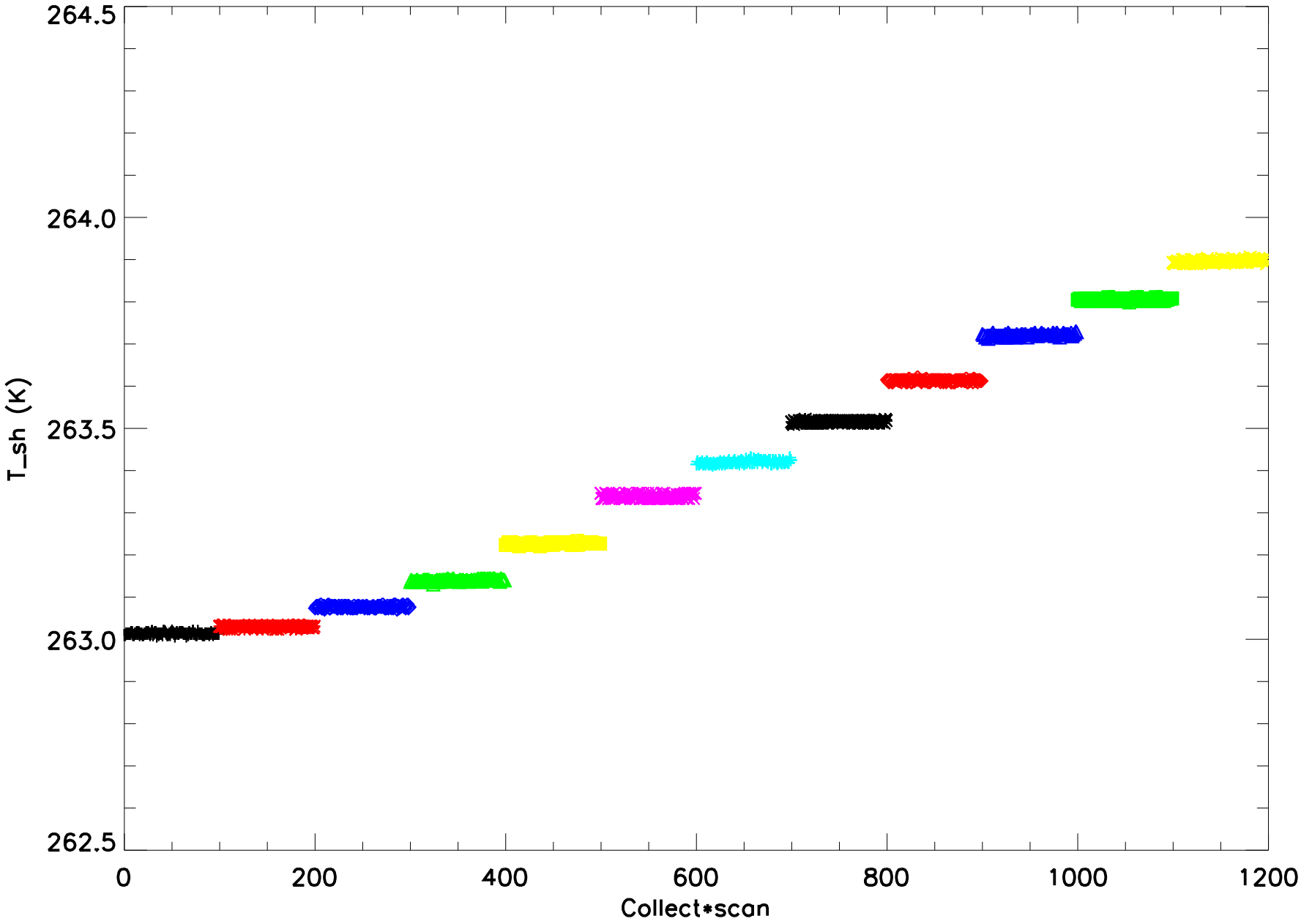

T_svs vs Time
93.0
92.5
92.0
91.5
91.0
90.5
90.0
T_svs (K)
−200
0
200
400
600
800
1000
Time (min)

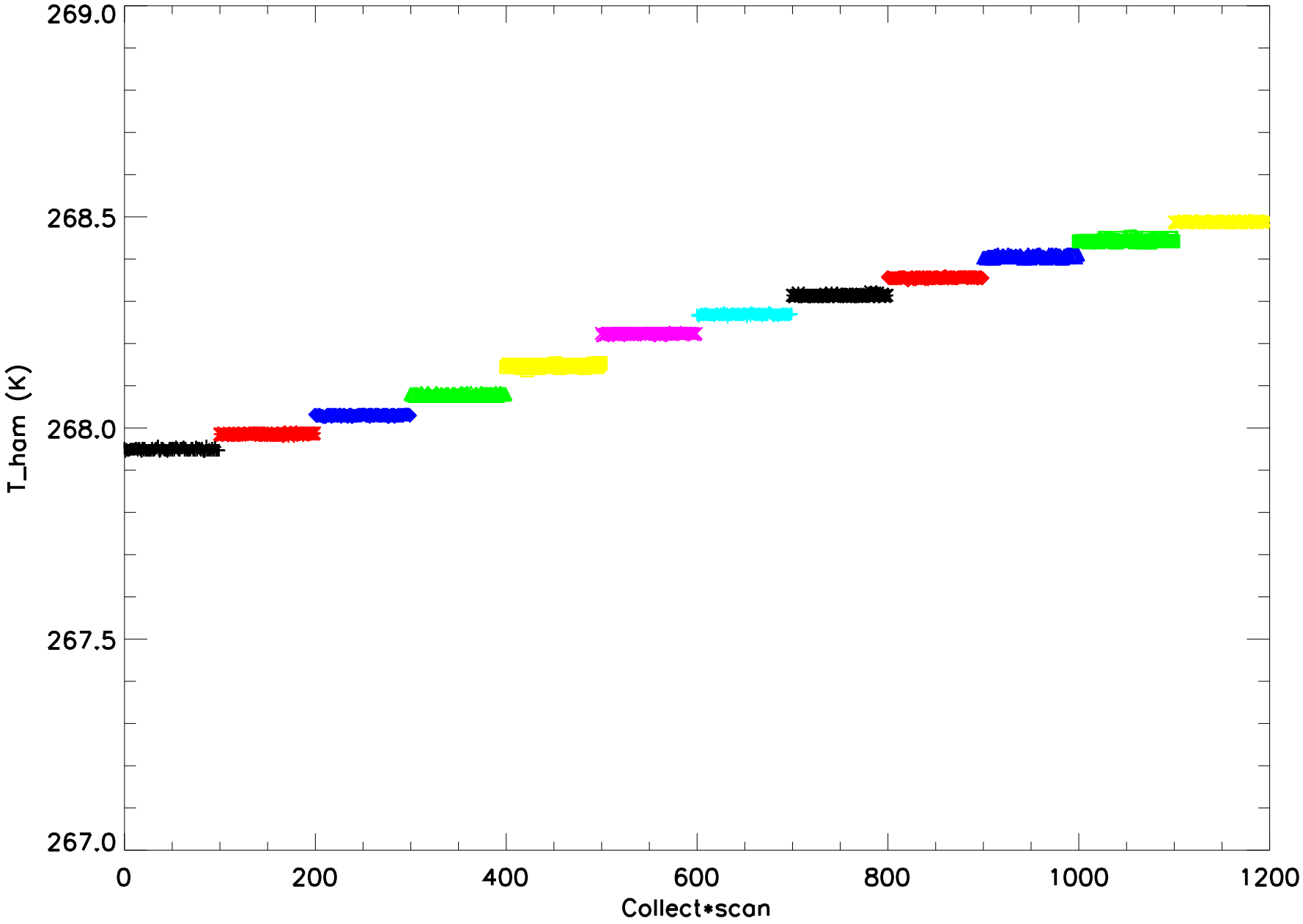

T_tmc vs Collect
380
360
340
320
300
280
T_tmc (K)
0
5
10
15
Collect

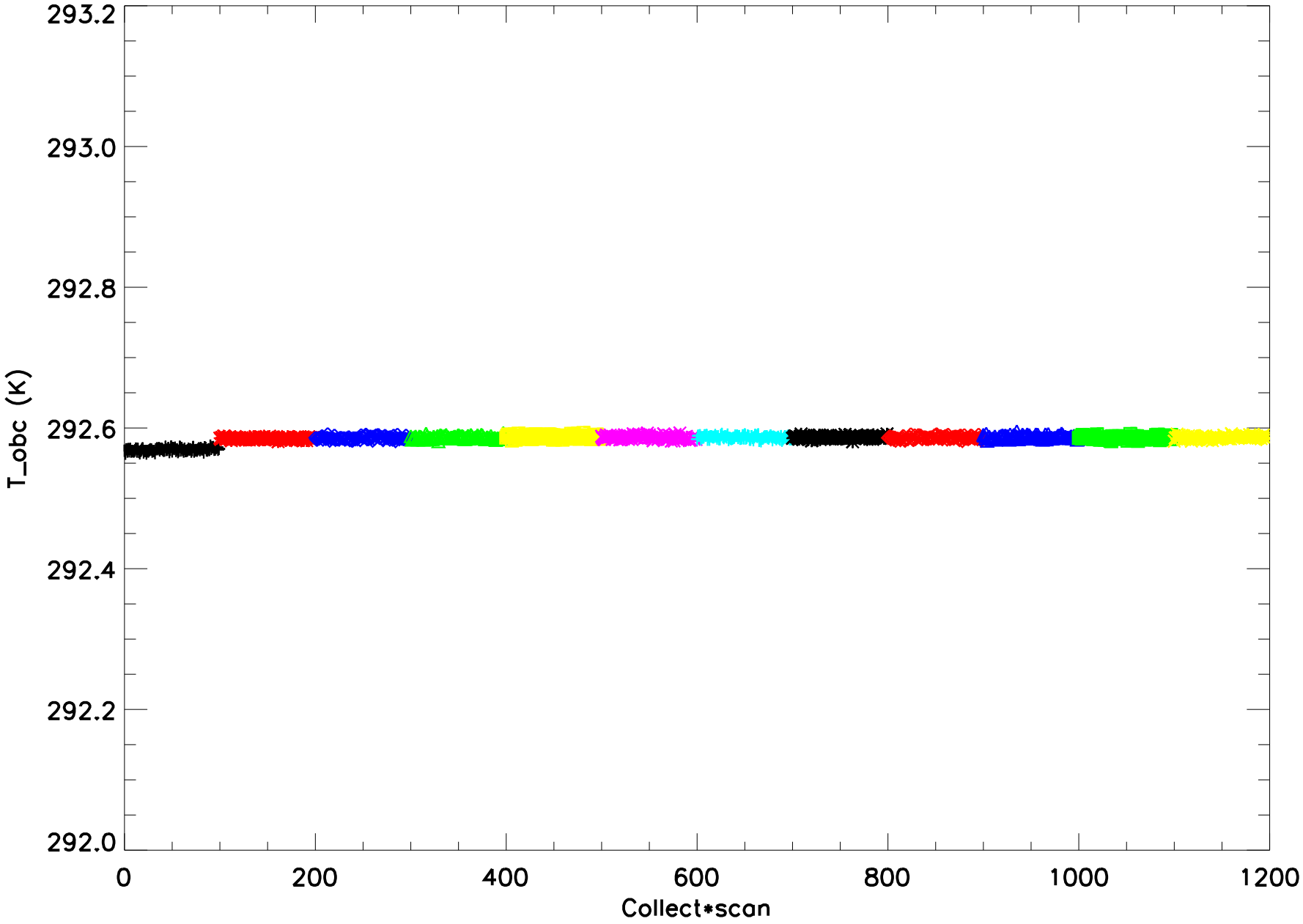

T_tmc vs Time
380
360
340
320
300
280
T_tmc (K)
−200
0
200
400
600
800
1000
Time (min)

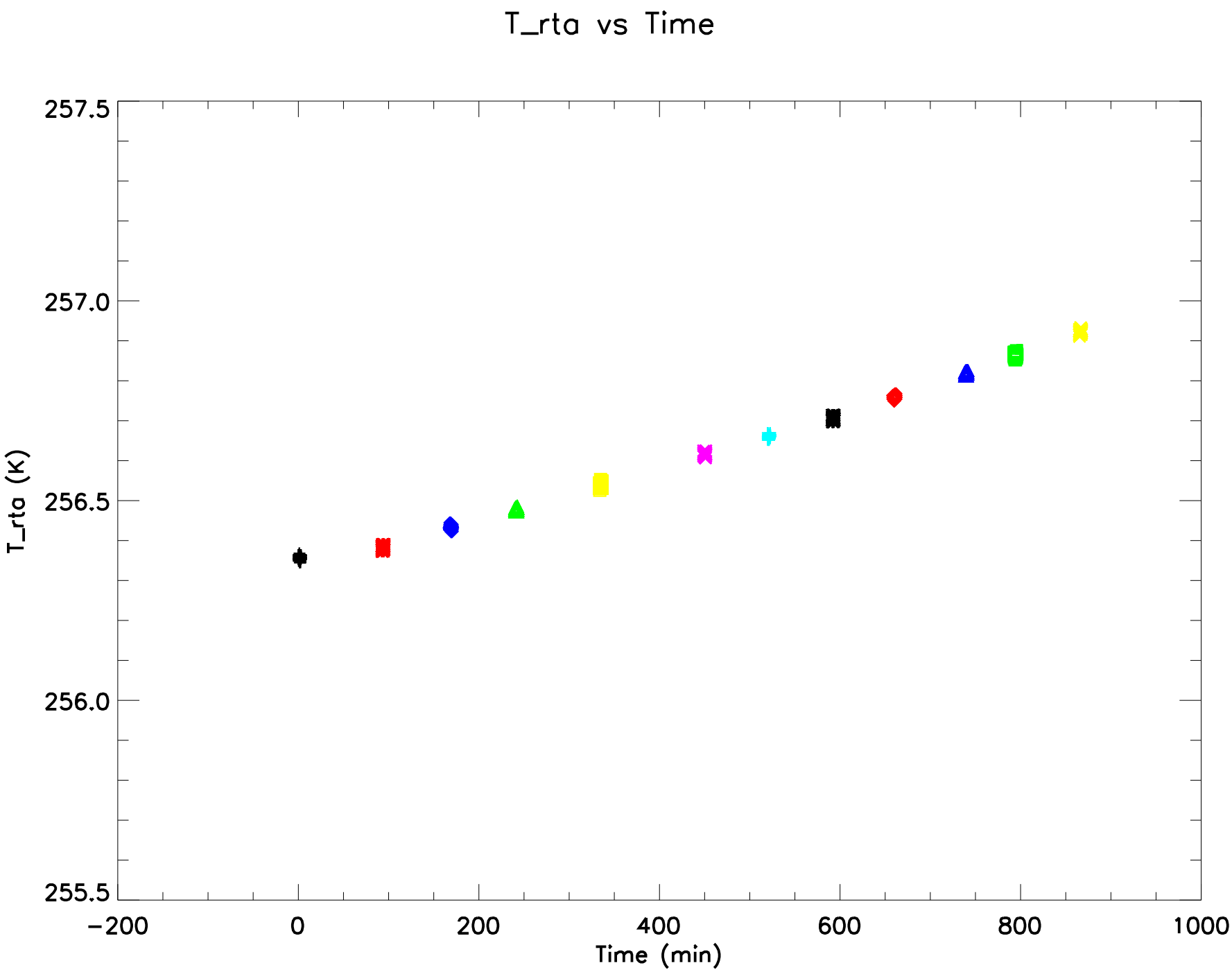

T_rta vs Scan and Collect
257.5
257.0
256.5
256.0
255.5
T_rta (K)
0
200
400
600
800
1000
1200
Collect*scan

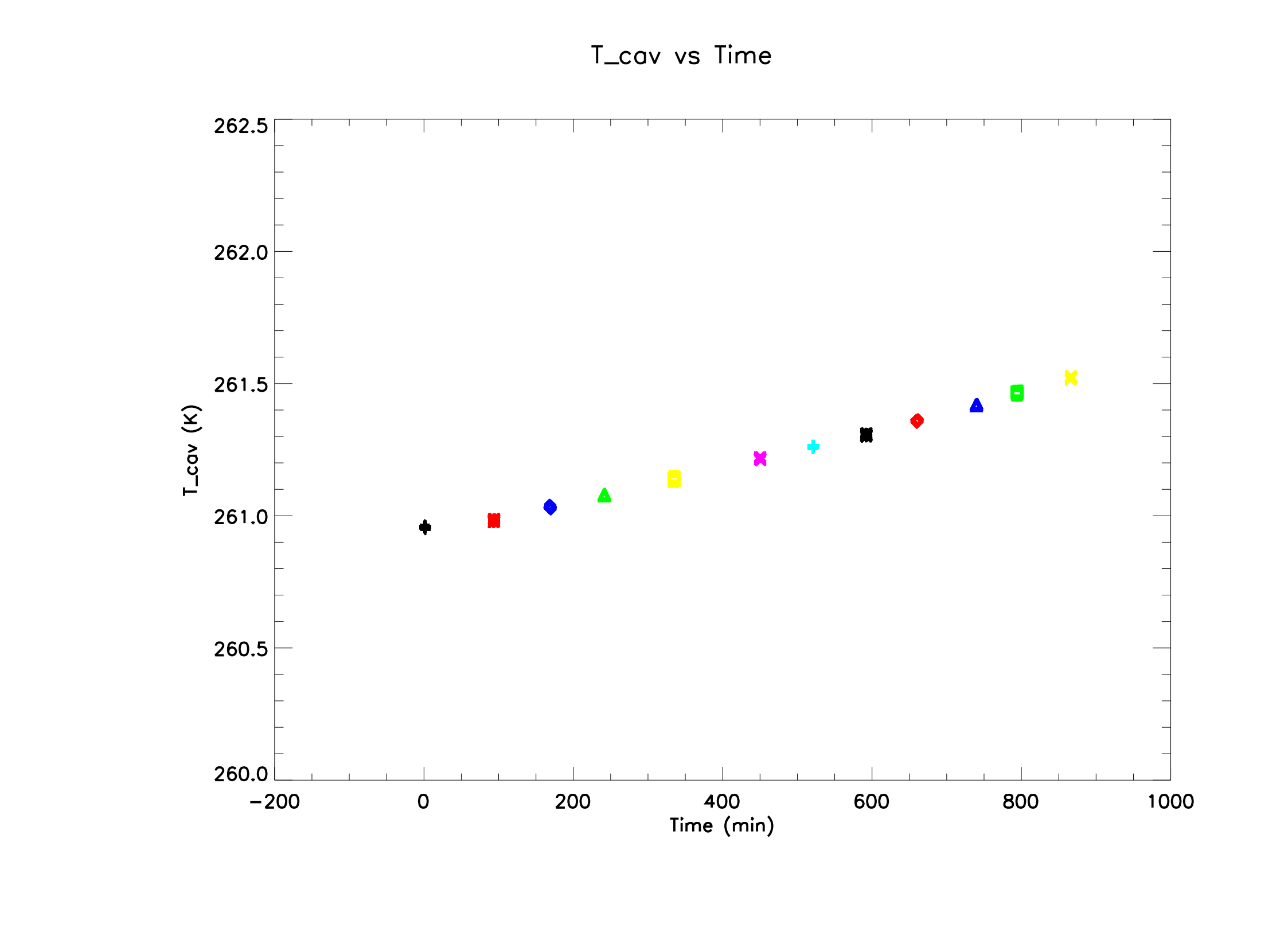

T_cav vs Scan and Collect
262.5
262.0
261.5
261.0
260.5
260.0
T_cav (K)
0
200
400
600
800
1000
1200
Collect*scan

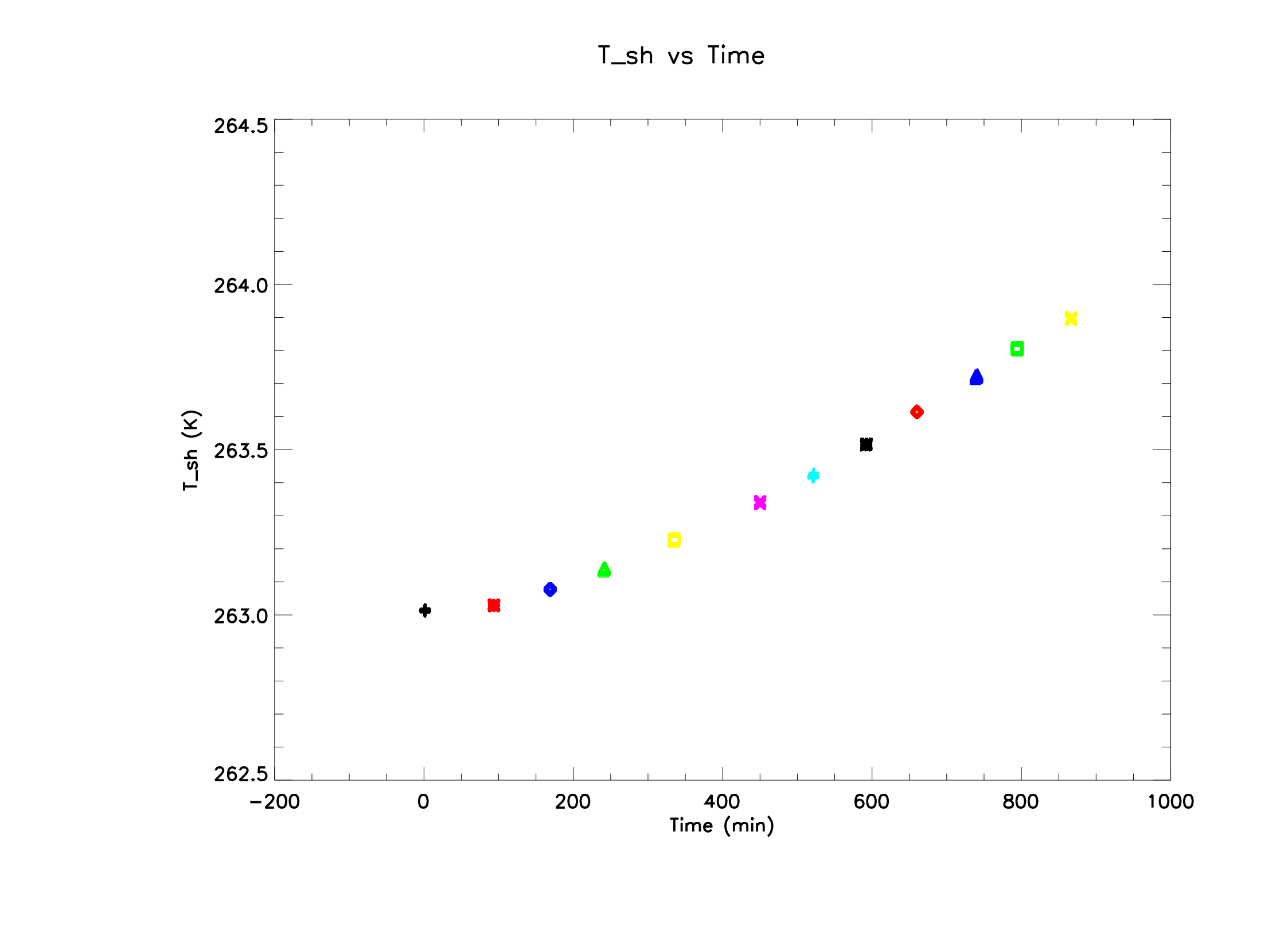

T_sh vs Scan and Collect
264.5
264.0
263.5
263.0
262.5
T_sh (K)
0
200
400
600
800
1000
1200
Collect*scan

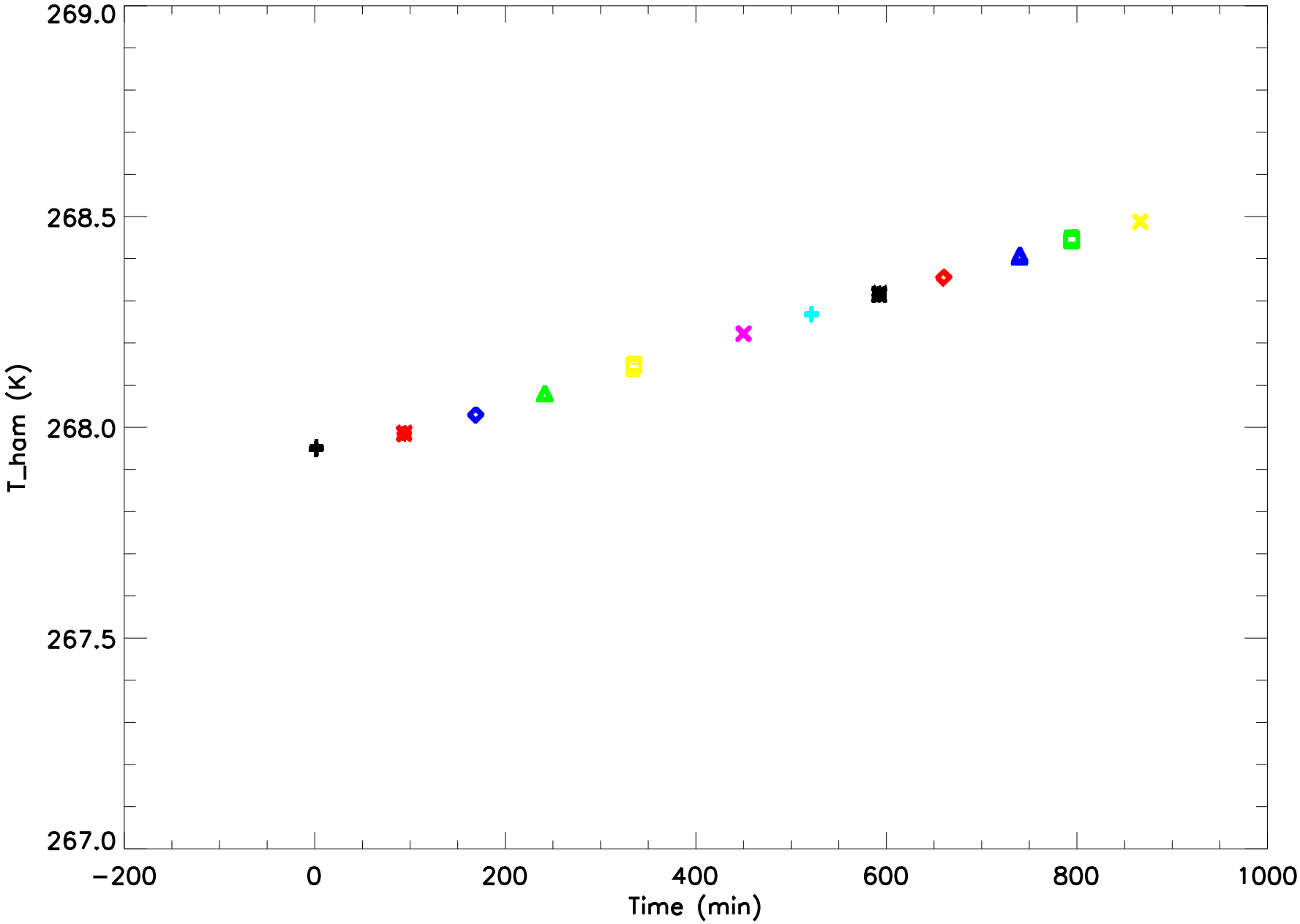

T_ham vs Scan and Collect
269.0
268.5
268.0
267.5
267.0
T_ham (K)
0
200
400
600
800
1000
1200
Collect*scan

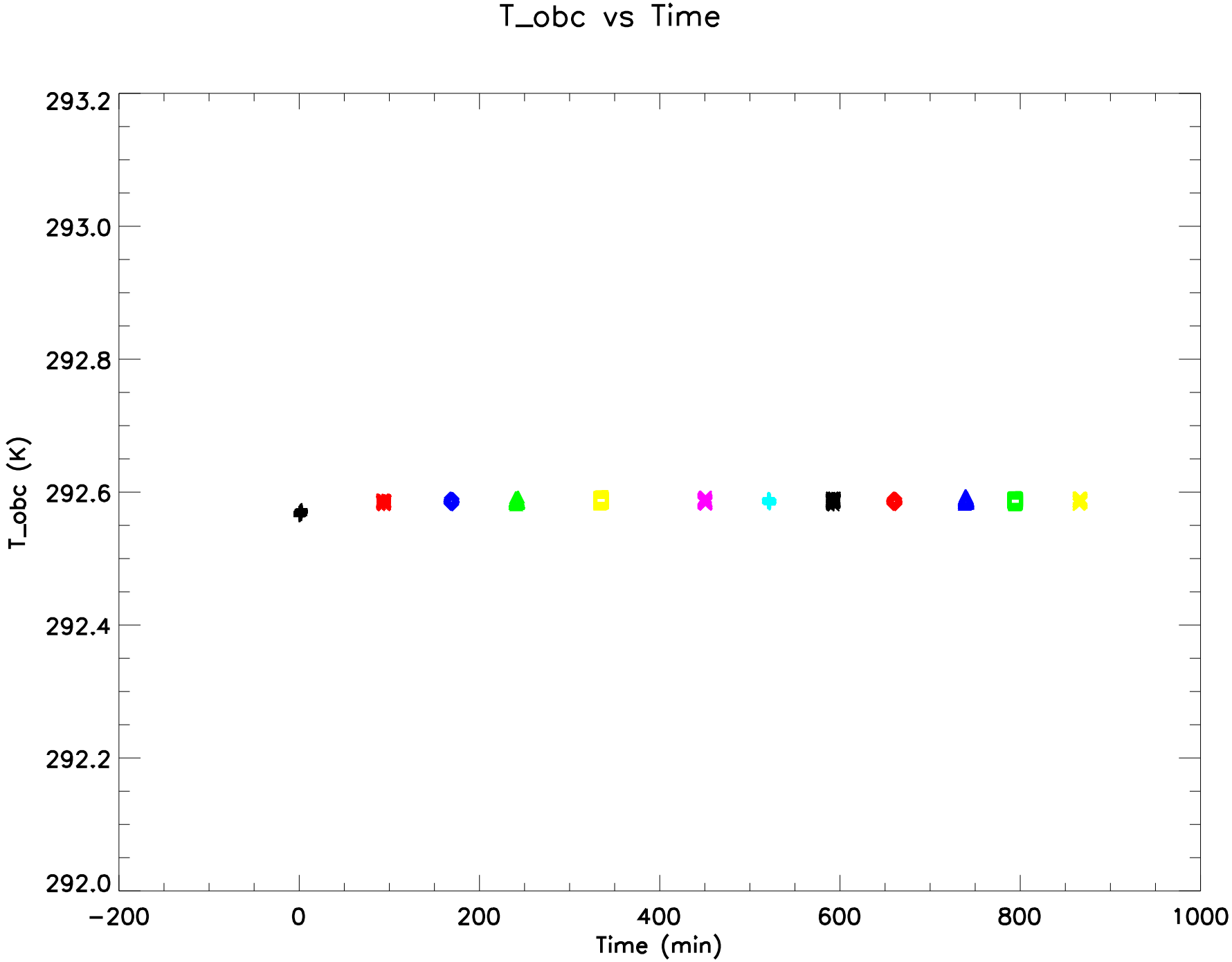

T_obc vs Scan and Collect
293.2
293.0
292.8
292.6
292.4
292.2
292.0
T_obc (K)
0
200
400
600
800
1000
1200
Collect*scan

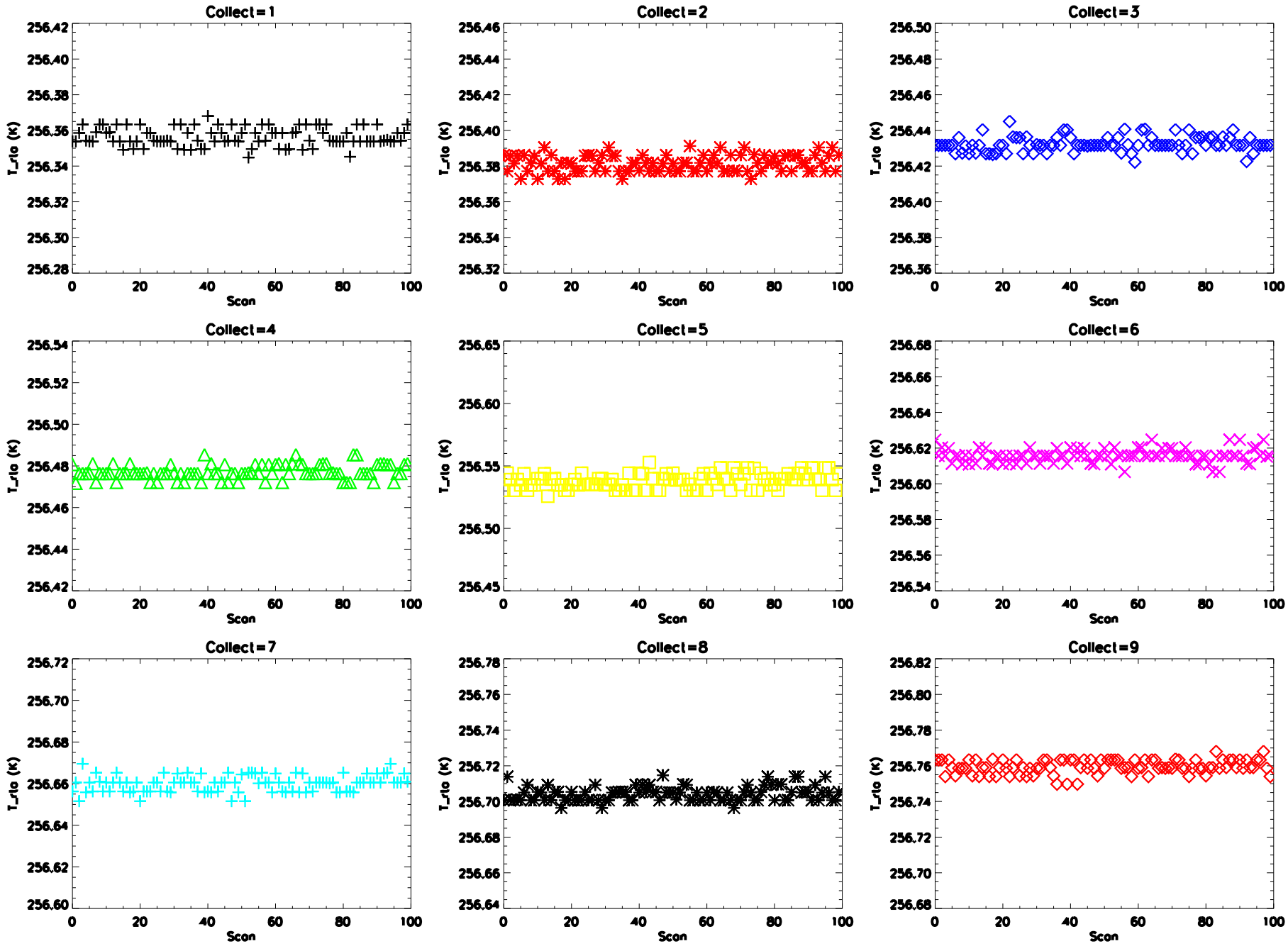

T_rta vs Time
257.5
257.0
256.5
256.0
255.5
T_rta (K)
−200
0
200
400
600
800
1000
Time (min)


T_cav vs Time
262.5
262.0
261.5
261.0
260.5
260.0
T_cav (K)
−200
0
200
400
600
800
1000
Time (min)

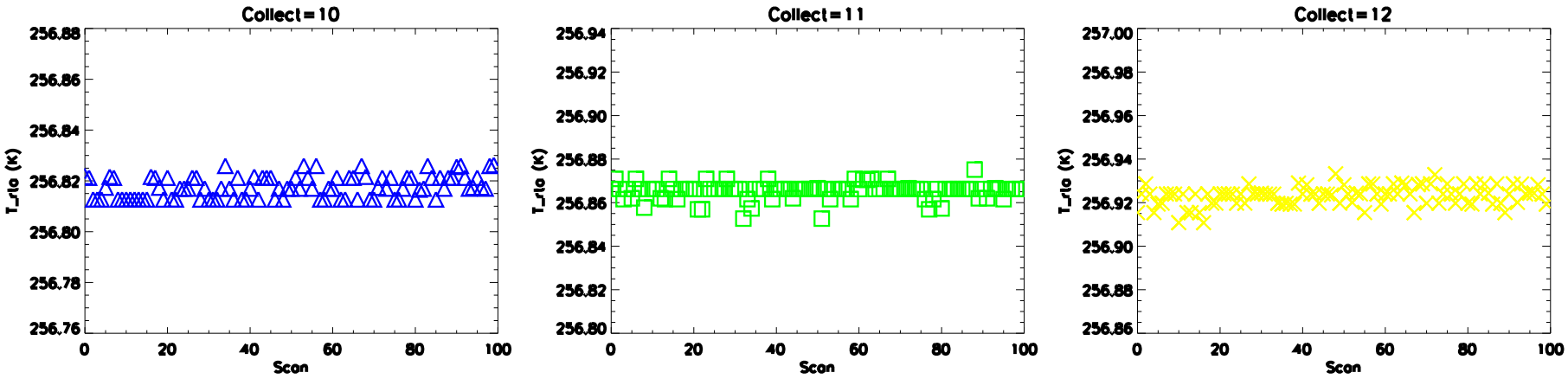

T_sh vs Time
264.5
264.0
263.5
263.0
262.5
T_sh (K)
−200
0
200
400
600
800
1000
Time (min)

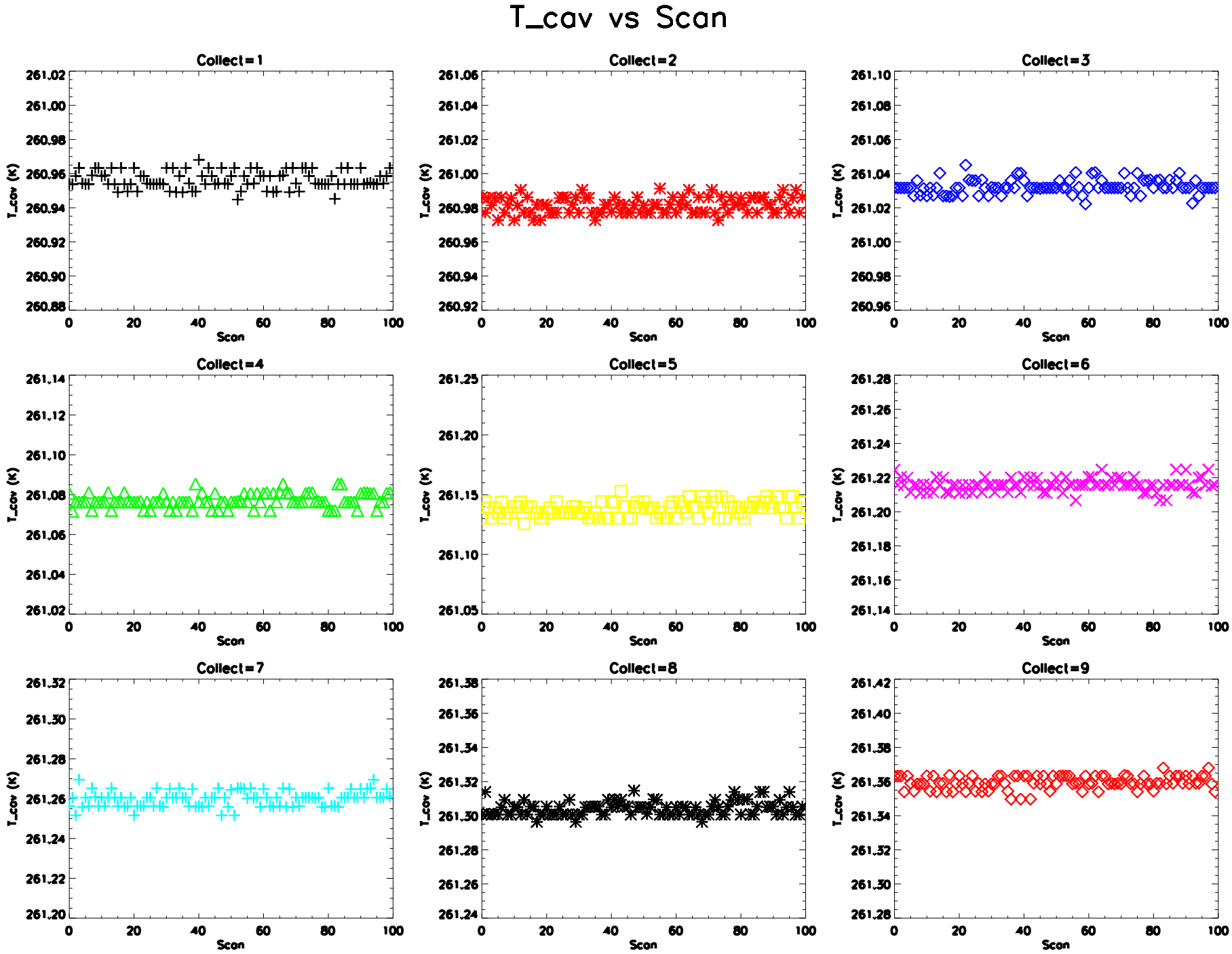

T_ham vs Time
269.0
268.5
268.0
267.5
267.0
T_ham (K)
−200
0
200
400
600
800
1000
Time (min)


T_obc vs Time
293.2
293.0
292.8
292.6
292.4
292.2
292.0
T_obc (K)
−200
0
200
400
600
800
1000
Time (min)

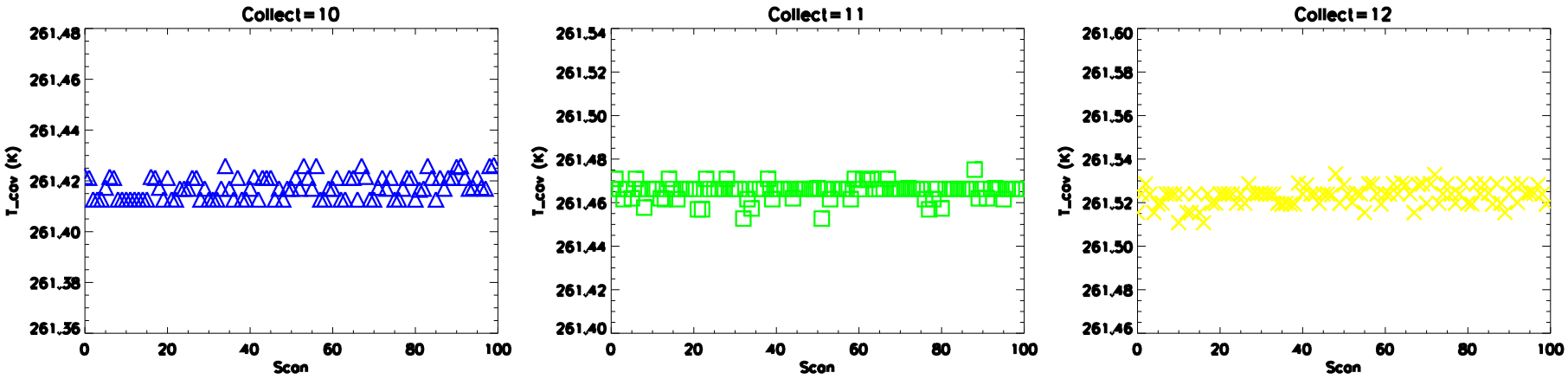

T_rta vs Scan
Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_rta (K)
Scan

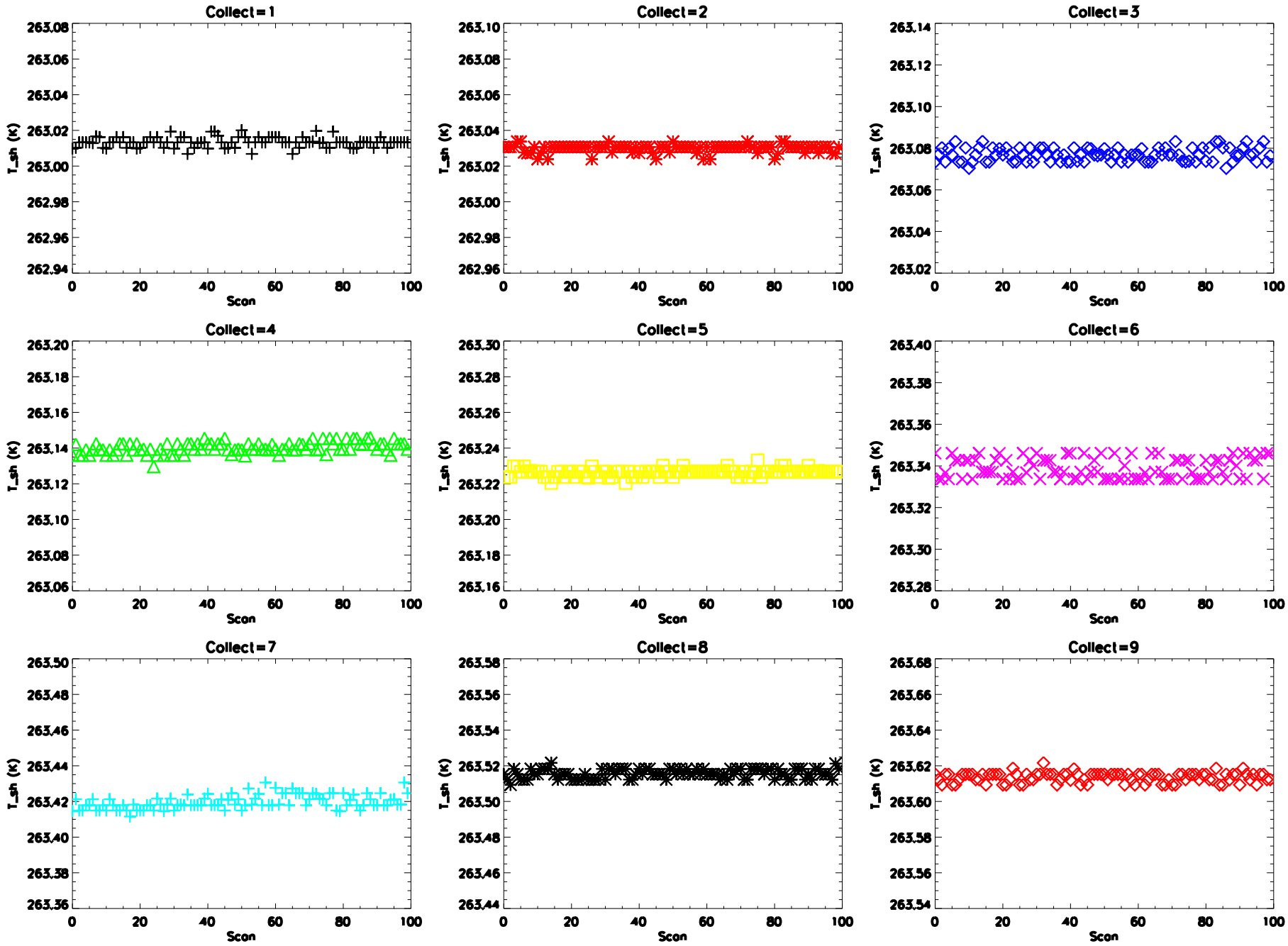
T_rta vs Scan


Collect = 10
T_rta (K)
256.88
256.86
256.84
256.82
256.80
256.78
256.76
0
20
40
60
80
100
Scan
Collect = 11
T_rta (K)
256.94
256.92
256.90
256.88
256.86
256.84
256.82
256.80
0
20
40
60
80
100
Scan
Collect = 12
T_rta (K)
257.00
256.98
256.96
256.94
256.92
256.90
256.88
256.86
0
20
40
60
80
100
Scan

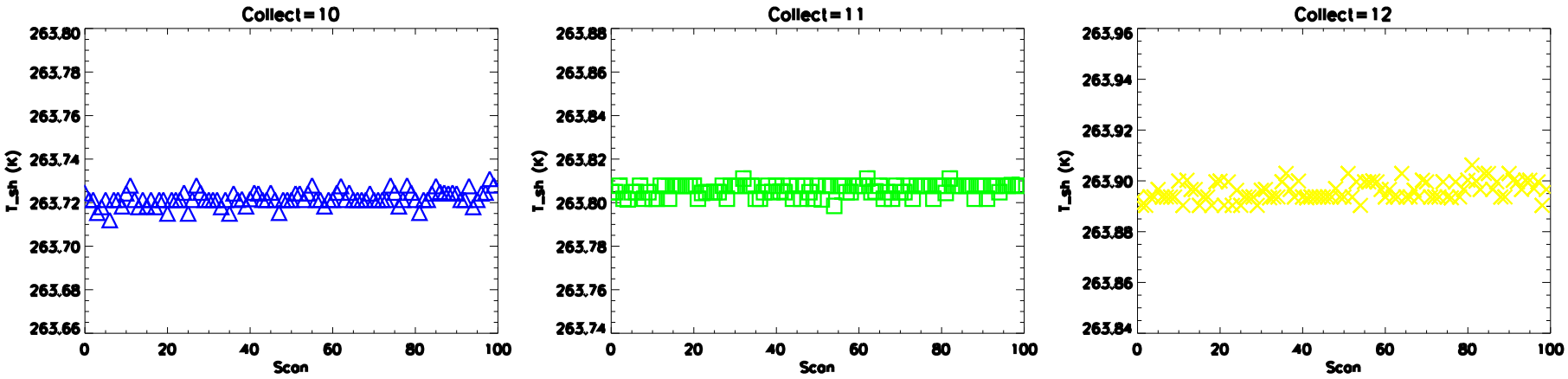

T_cav vs Scan
Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_cav (K)
Scan

T_cav vs Scan

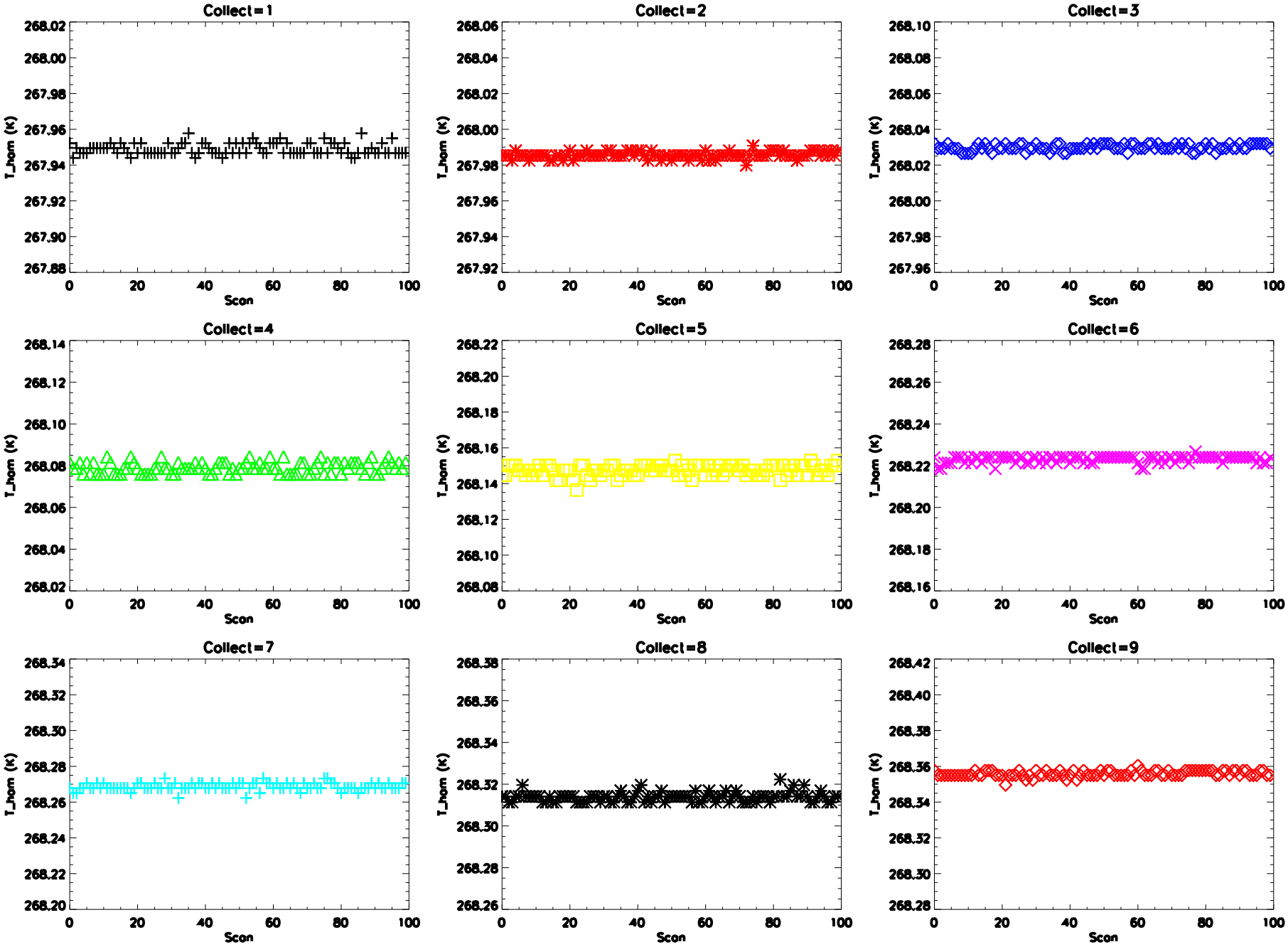

Collect = 10
T_cav (K)
261.48
261.46
261.44
261.42
261.40
261.38
261.36
0
20
40
60
80
100
Scan
Collect = 11
T_cav (K)
261.54
261.52
261.50
261.48
261.46
261.44
261.42
261.40
0
20
40
60
80
100
Scan
Collect = 12
T_cav (K)
261.60
261.58
261.56
261.54
261.52
261.50
261.48
261.46
0
20
40
60
80
100
Scan


T_sh vs Scan
Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_sh (K)
Scan

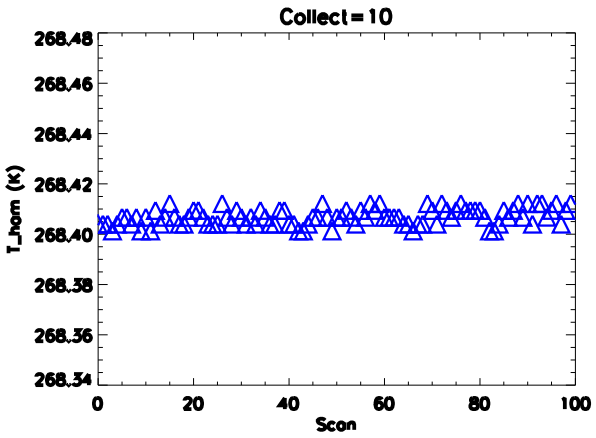
T_sh vs Scan

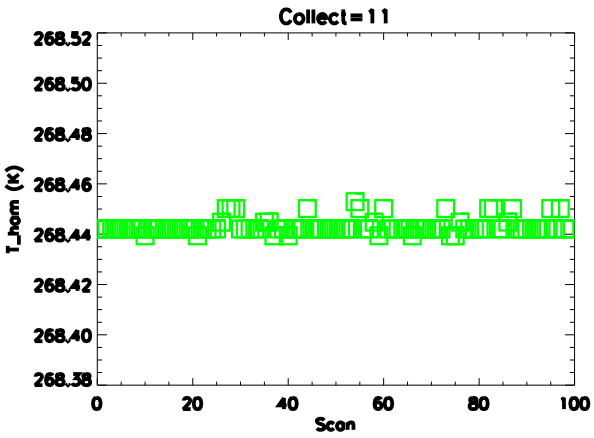

Collect = 10
T_sh (K)
263.80
263.78
263.76
263.74
263.72
263.70
263.68
263.66
0
20
40
60
80
100
Scan
Collect = 11
T_sh (K)
263.88
263.86
263.84
263.82
263.80
263.78
263.76
263.74
0
20
40
60
80
100
Scan
Collect = 12
T_sh (K)
263.96
263.94
263.92
263.90
263.88
263.86
263.84
0
20
40
60
80
100
Scan

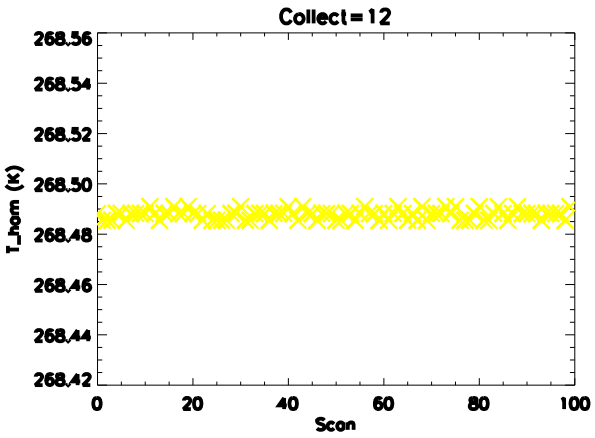
T_ham vs Scan


Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_ham (K)
Scan

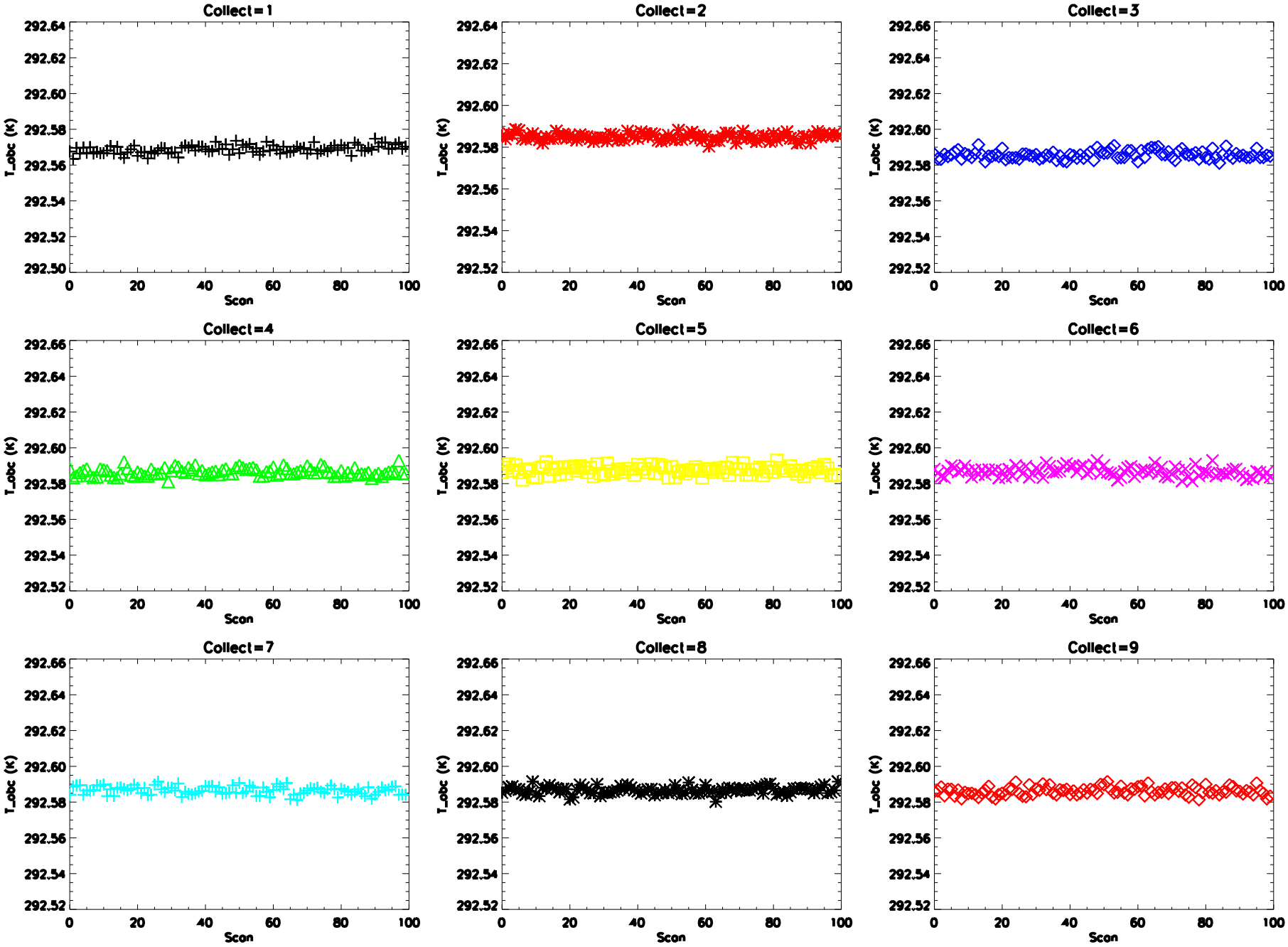
T_ham vs Scan


Collect = 10
T_ham (K)
268.48
268.46
268.44
268.42
268.40
268.38
268.36
268.34
0
20
40
60
80
100
Scan

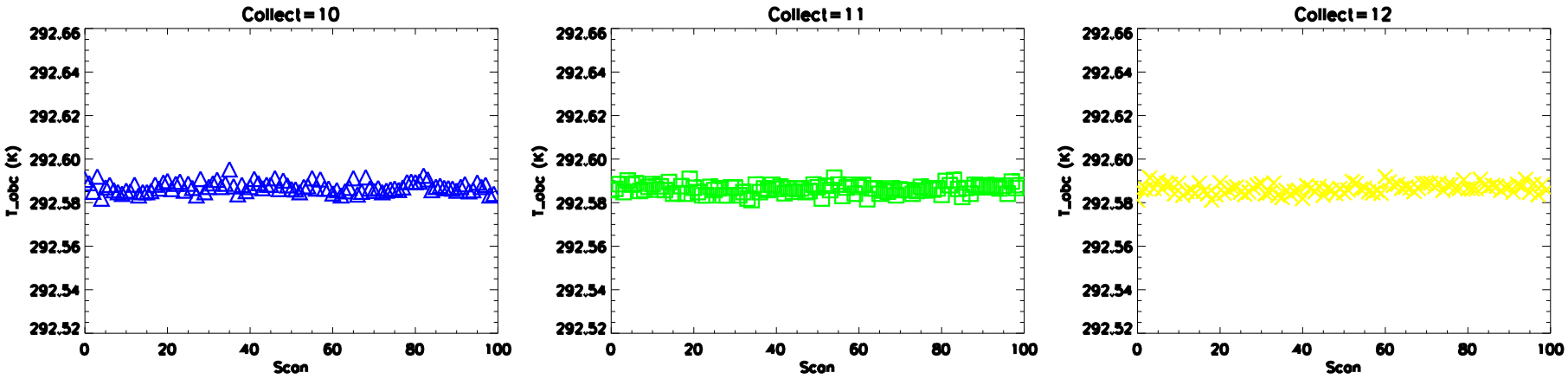

Collect = 11
T_ham (K)
268.52
268.50
268.48
268.46
268.44
268.42
268.40
268.38
0
20
40
60
80
100
Scan

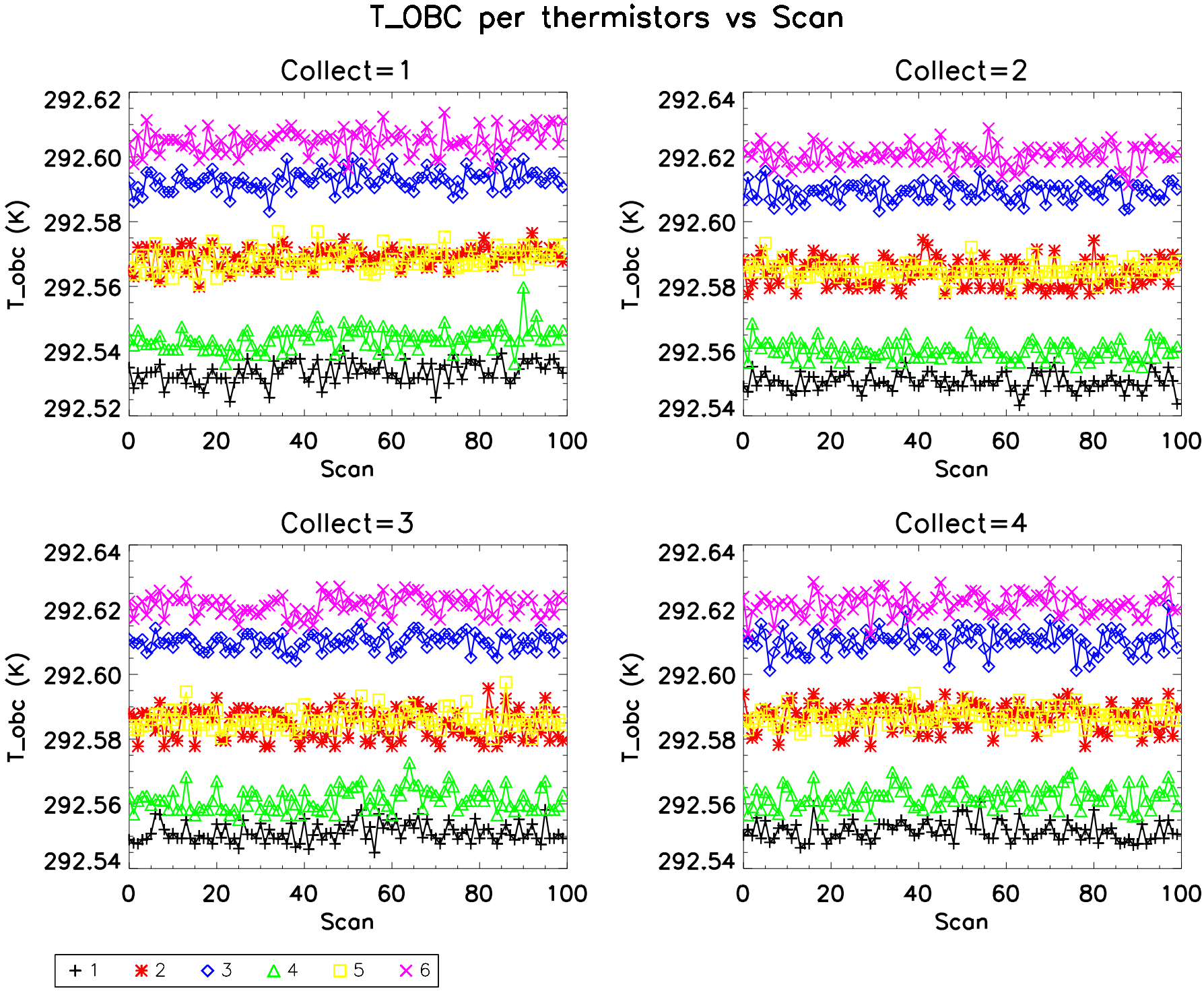

Collect = 12
T_ham (K)
268.56
268.54
268.52
268.50
268.48
268.46
268.44
268.42
0
20
40
60
80
100
Scan

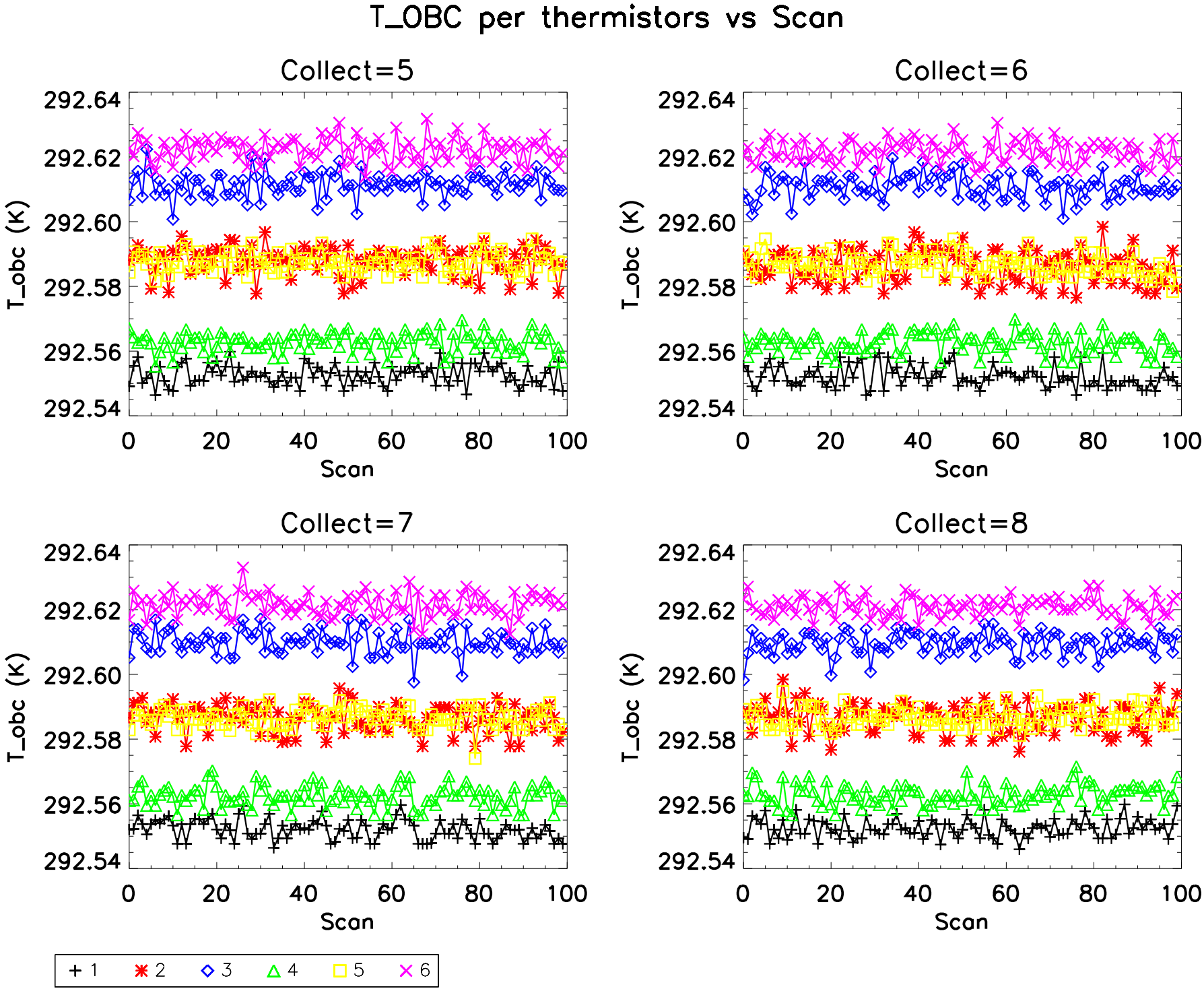
T_obc vs Scan

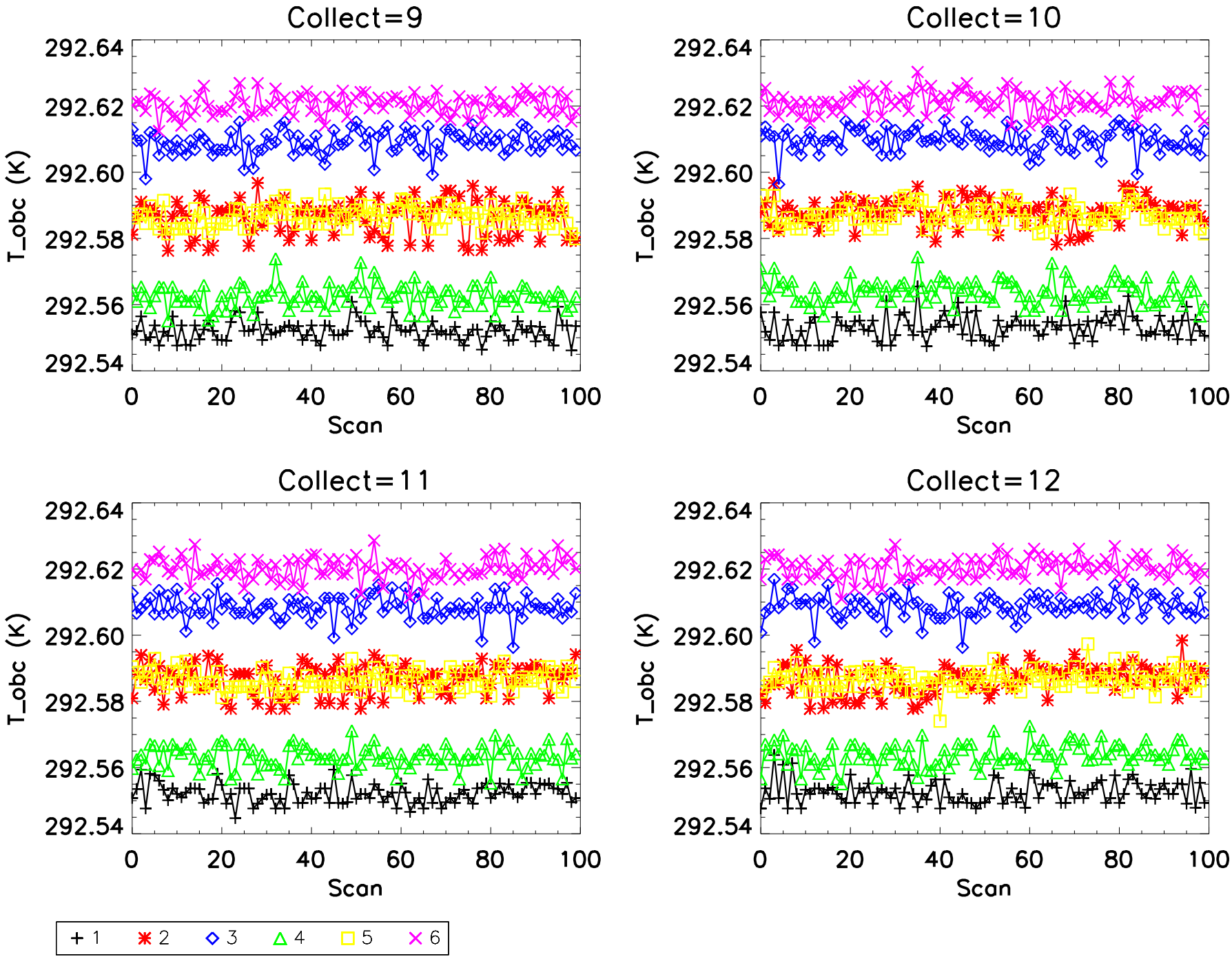

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_obc (K)
Scan

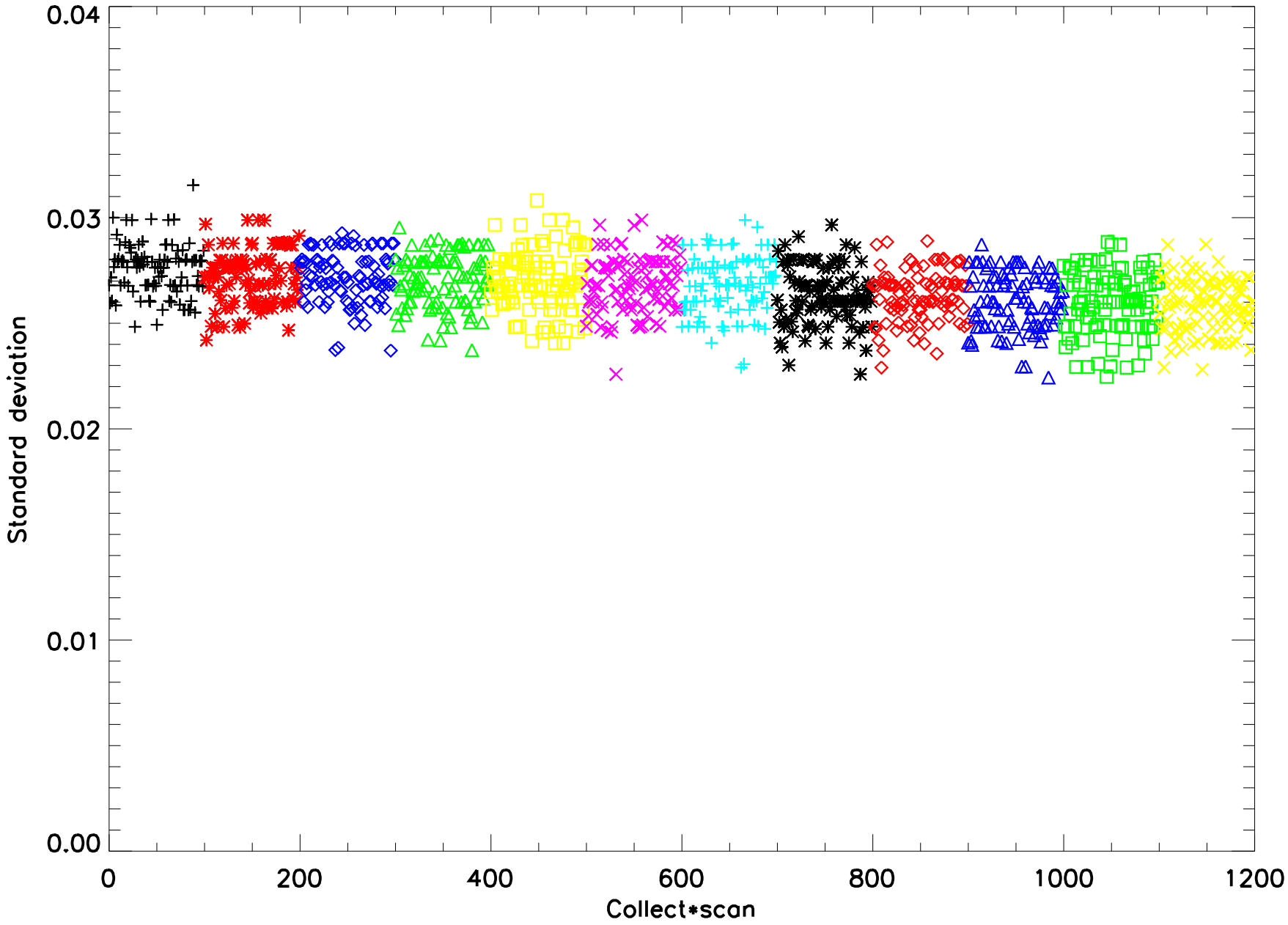
T_obc vs Scan

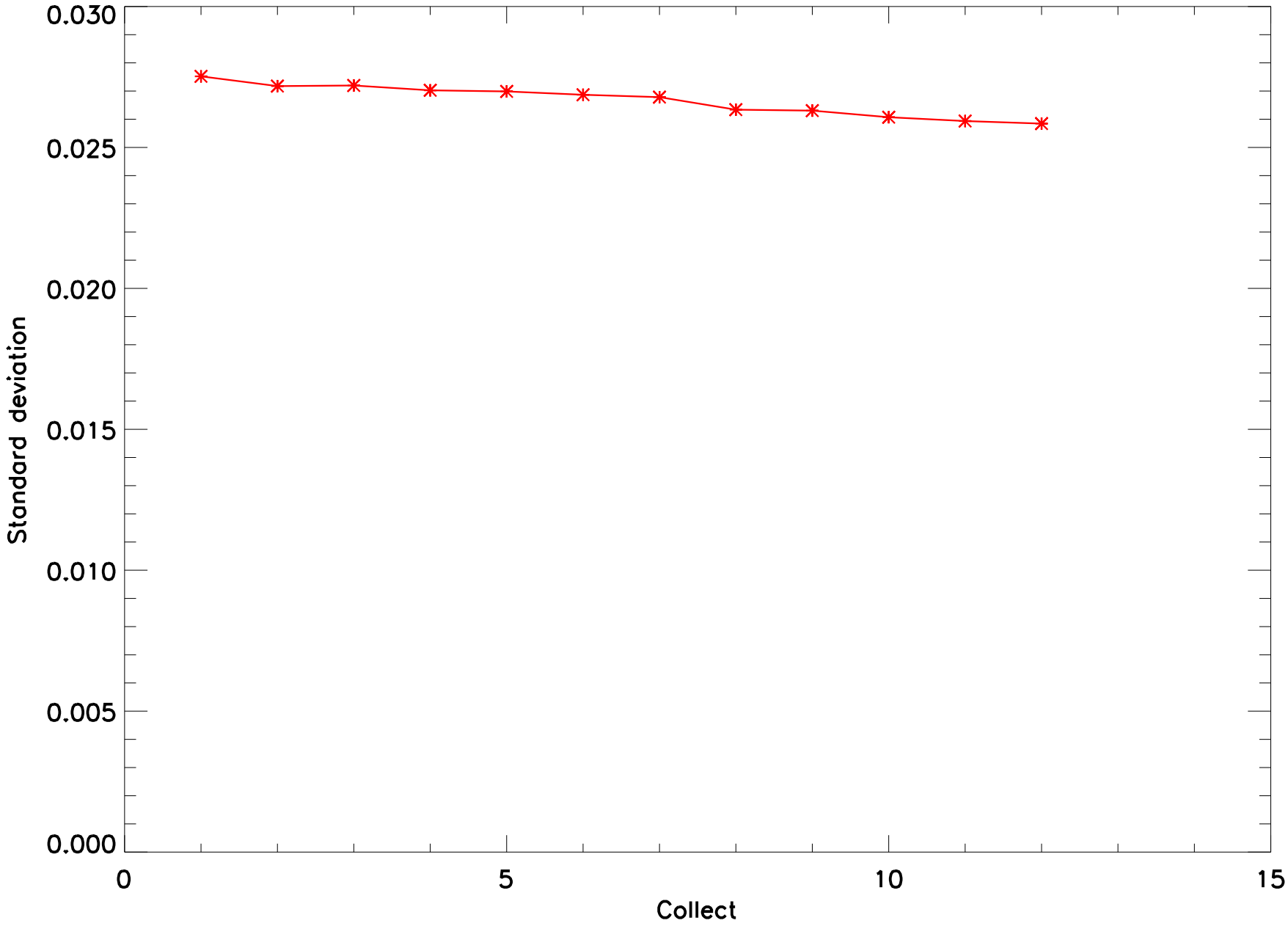

Collect = 10
Collect = 11
Collect = 12
T_obc (K)
Scan
292.66
292.64
292.62
292.60
292.58
292.56
292.54
292.52
0
20
40
60
80
100

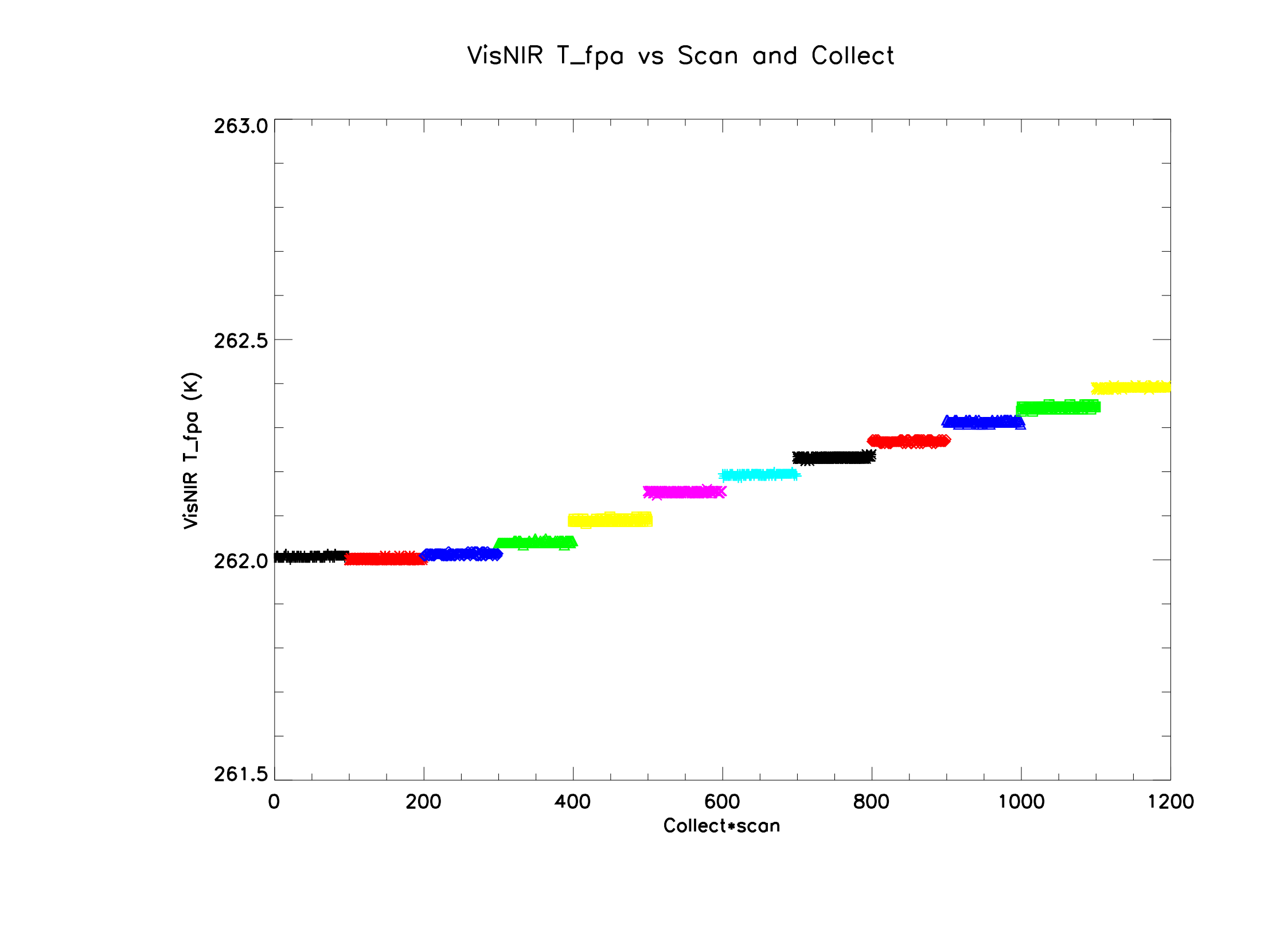

T_OBC per thermistors vs Scan
Collect=1
Collect=2
Collect=3
Collect=4
T_obc (K)
Scan
292.62
292.60
292.58
292.56
292.54
292.52
292.64
0
20
40
60
80
100
1
2
3
4
5
6

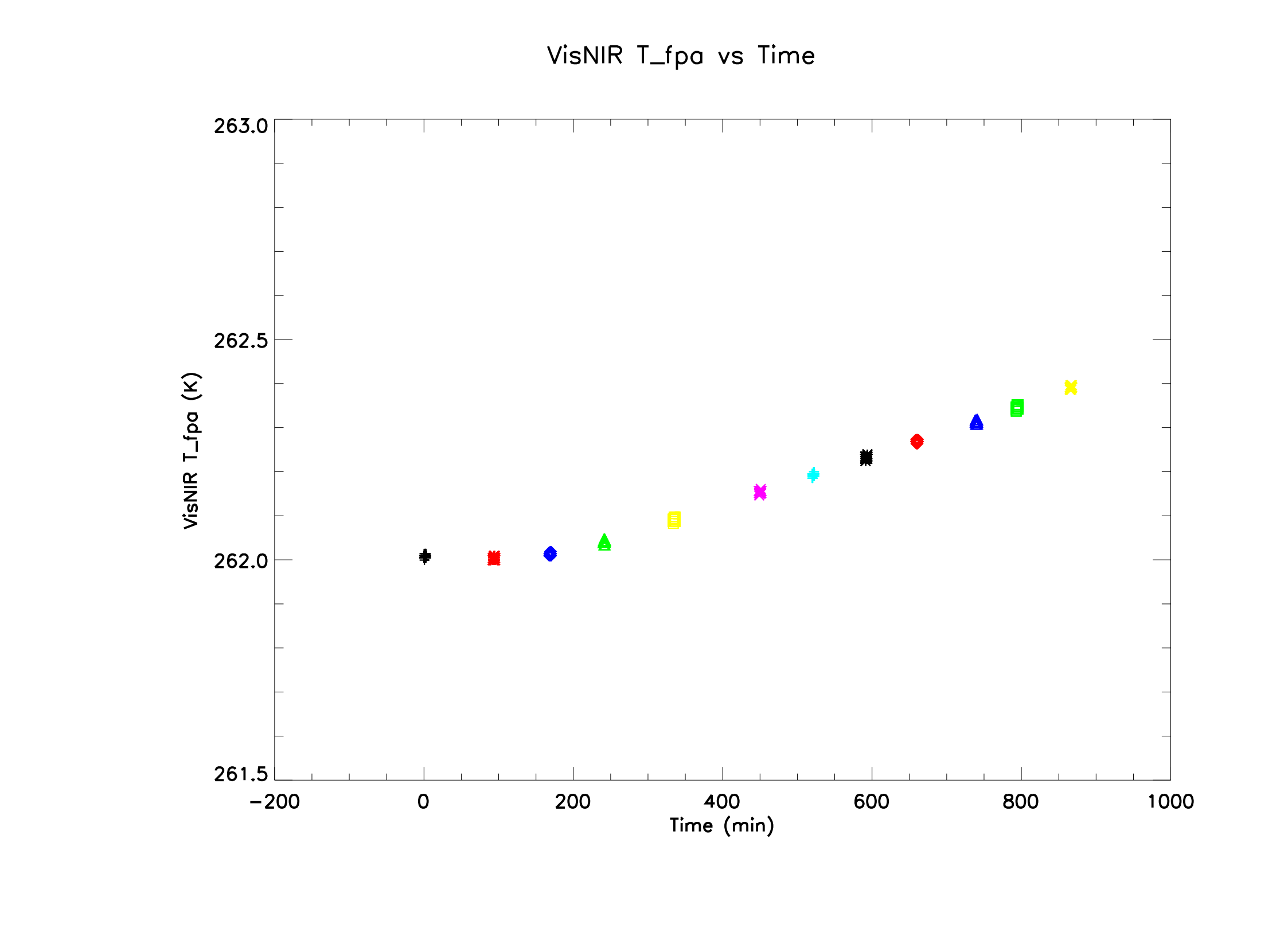

T_OBC per thermistors vs Scan
Collect=5
Collect=6
Collect=7
Collect=8
T_obc (K)
Scan
292.64
292.62
292.60
292.58
292.56
292.54
0
20
40
60
80
100
1
2
3
4
5
6

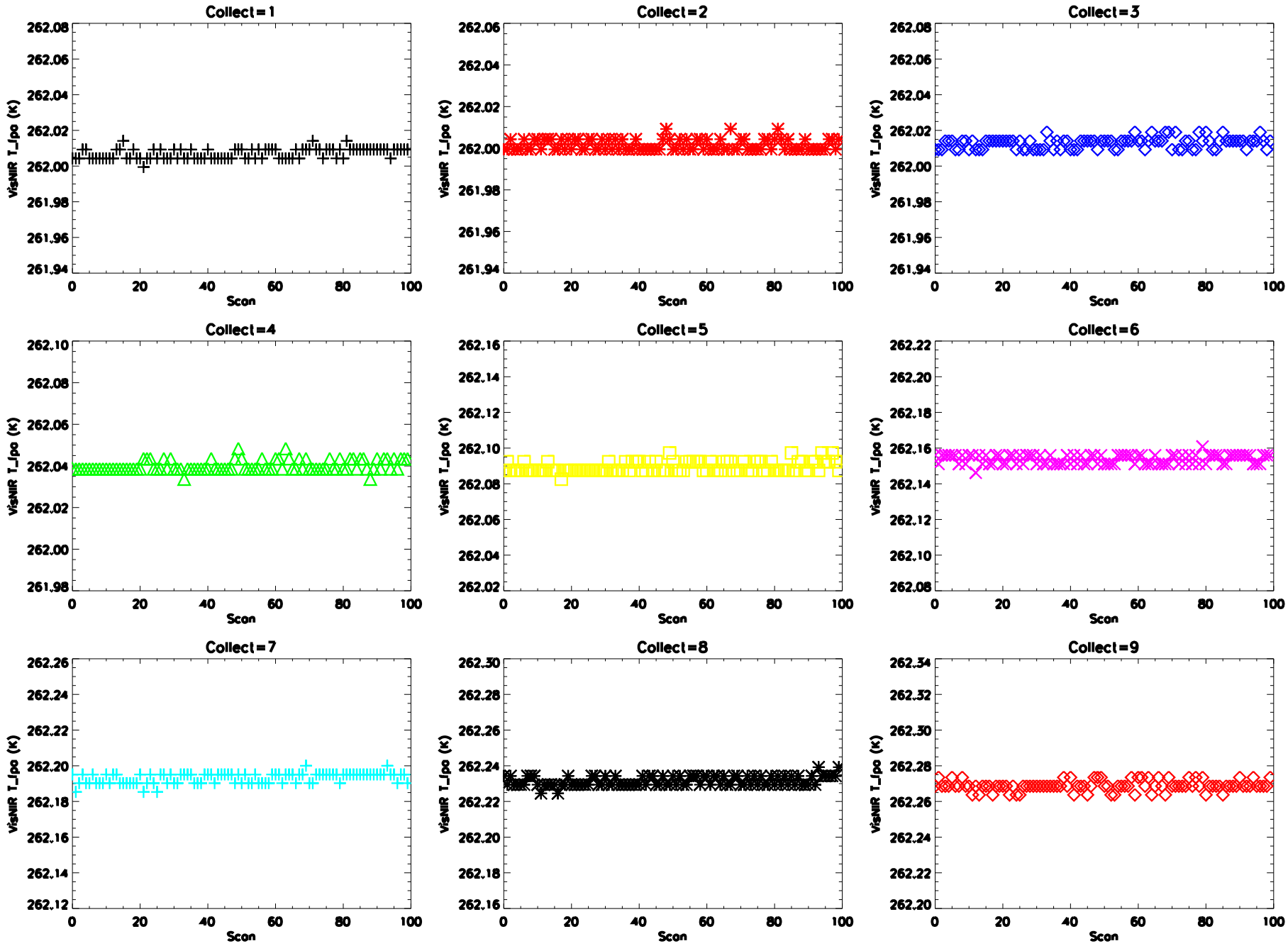

T_OBC per thermistors vs Scan
Collect=9
Collect=10
Collect=11
Collect=12
T_obc (K)
Scan
292.64
292.62
292.60
292.58
292.56
292.54
0
20
40
60
80
100
1
2
3
4
5
6


OBC thermistor standard deviation vs Scan and Collect
Standard deviation
0.04
0.03
0.02
0.01
0.00
0
200
400
600
800
1000
1200
Collect*scan

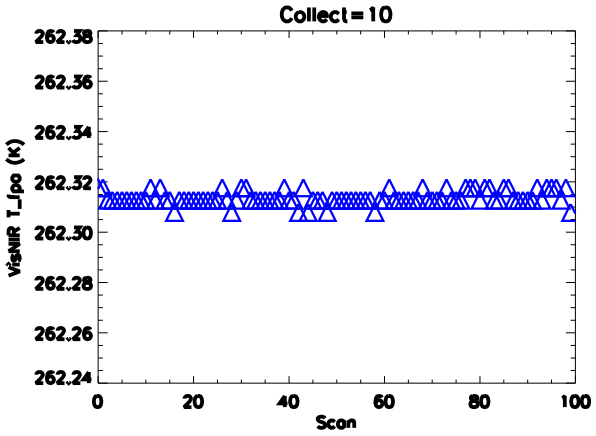

OBC thermistor standard deviation vs Collect
0.030
0.025
0.020
0.015
0.010
0.005
0.000
Standard deviation
0
5
10
15
Collect

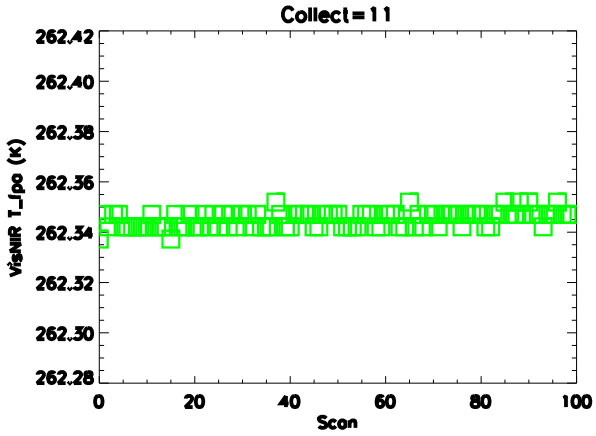

VisNIR T_fpa vs Scan and Collect
263.0
262.5
262.0
261.5
VisNIR T_fpa (K)
0
200
400
600
800
1000
1200
Collect*scan

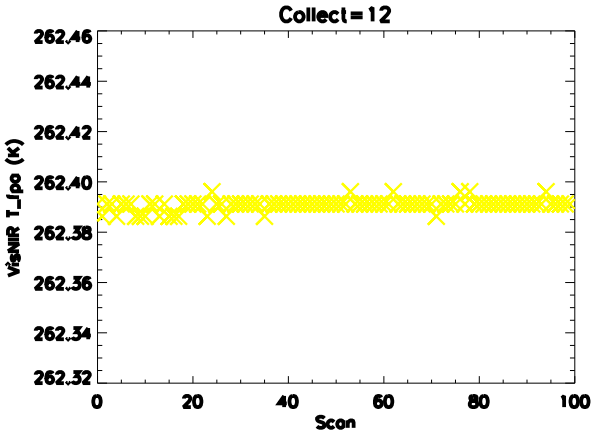

VisNIR T_fpa vs Time
263.0
262.5
262.0
261.5
VisNIR T_fpa (K)
−200
0
200
400
600
800
1000
Time (min)

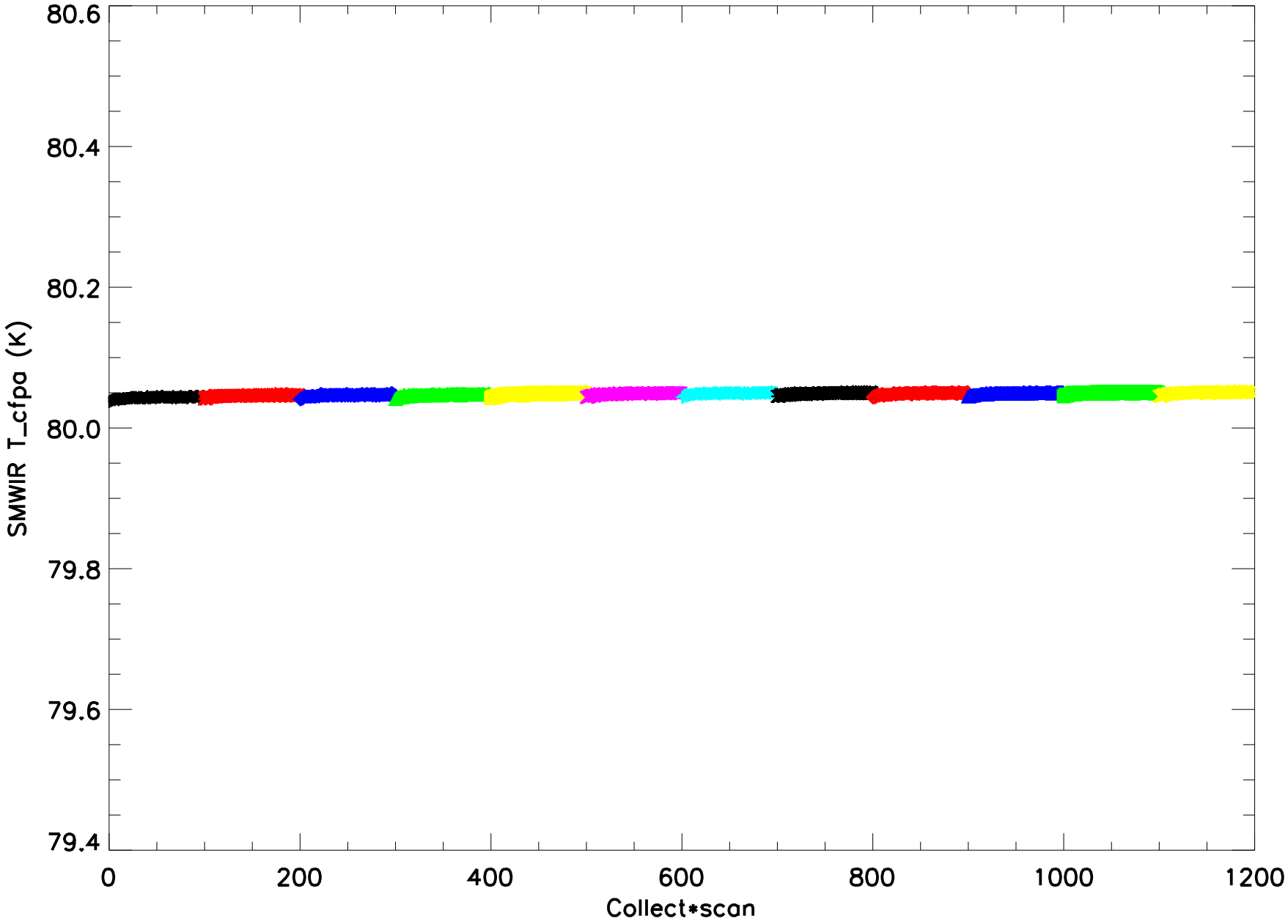

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
VisNIR T_lpo (K)
Scan

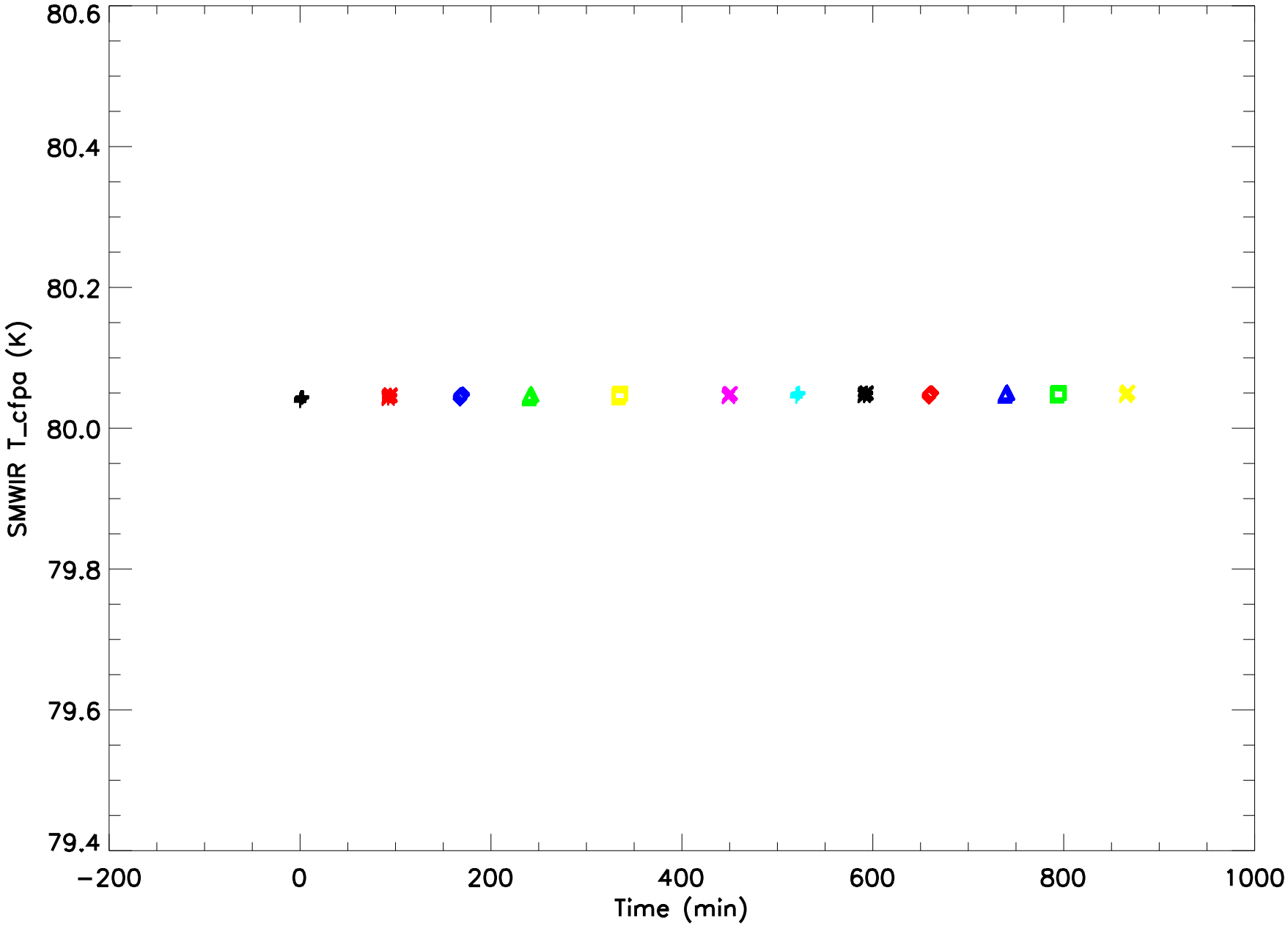
VisNIR T_fpa vs Scan





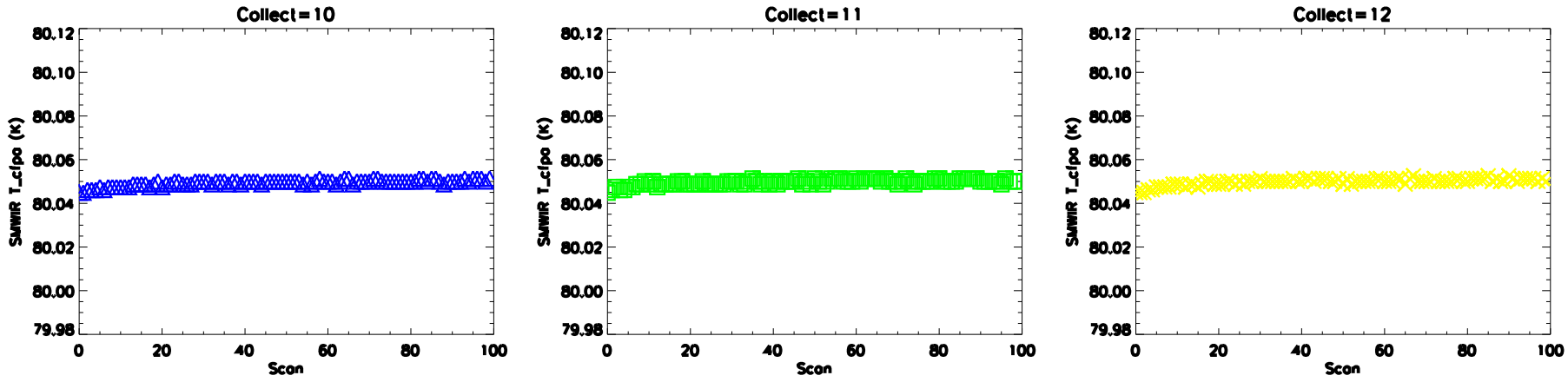


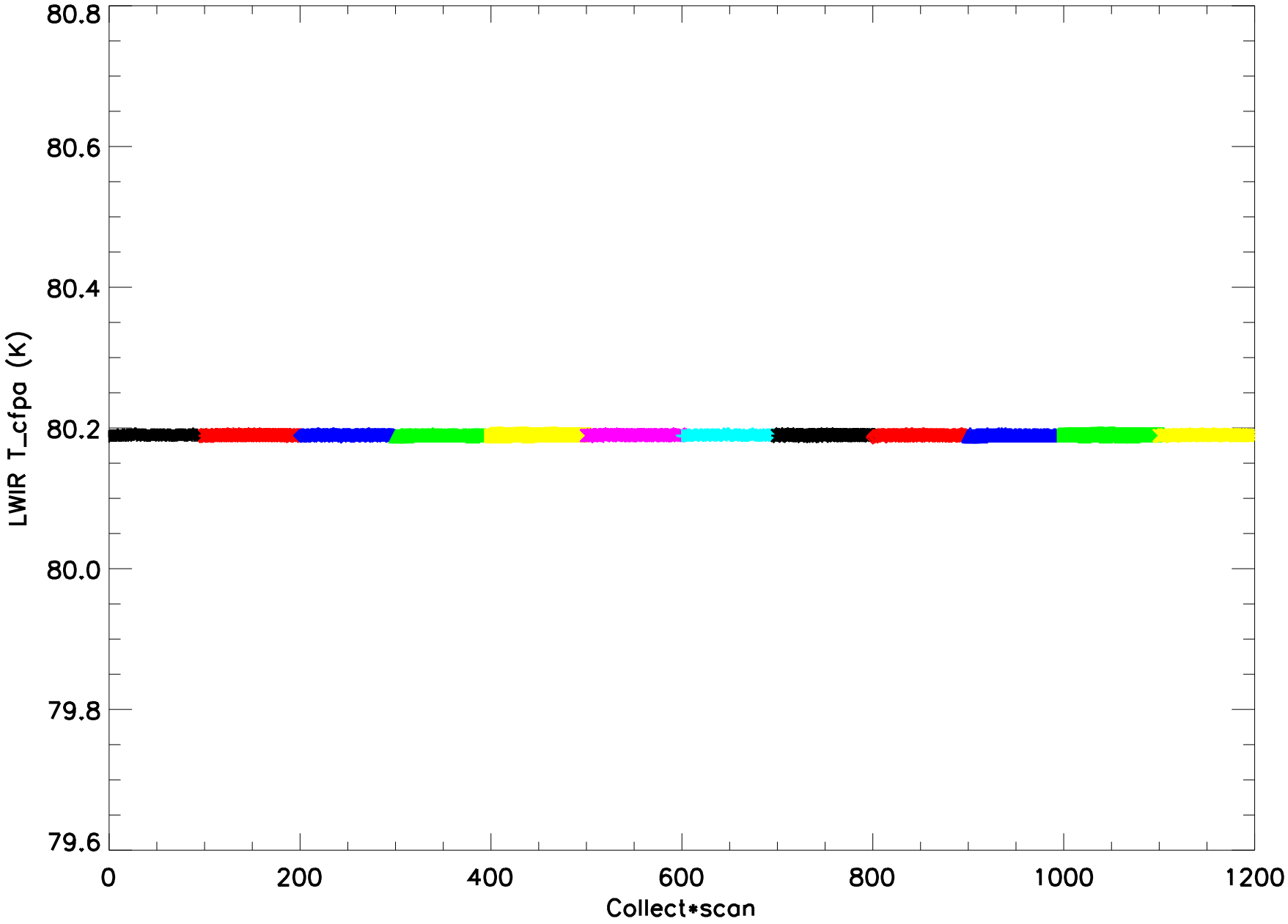

SMWIR T_cfpa vs Scan and Collect
80.6
80.4
80.2
80.0
79.8
79.6
79.4
SMWIR T_cfpa (K)
0
200
400
600
800
1000
1200
Collect*scan

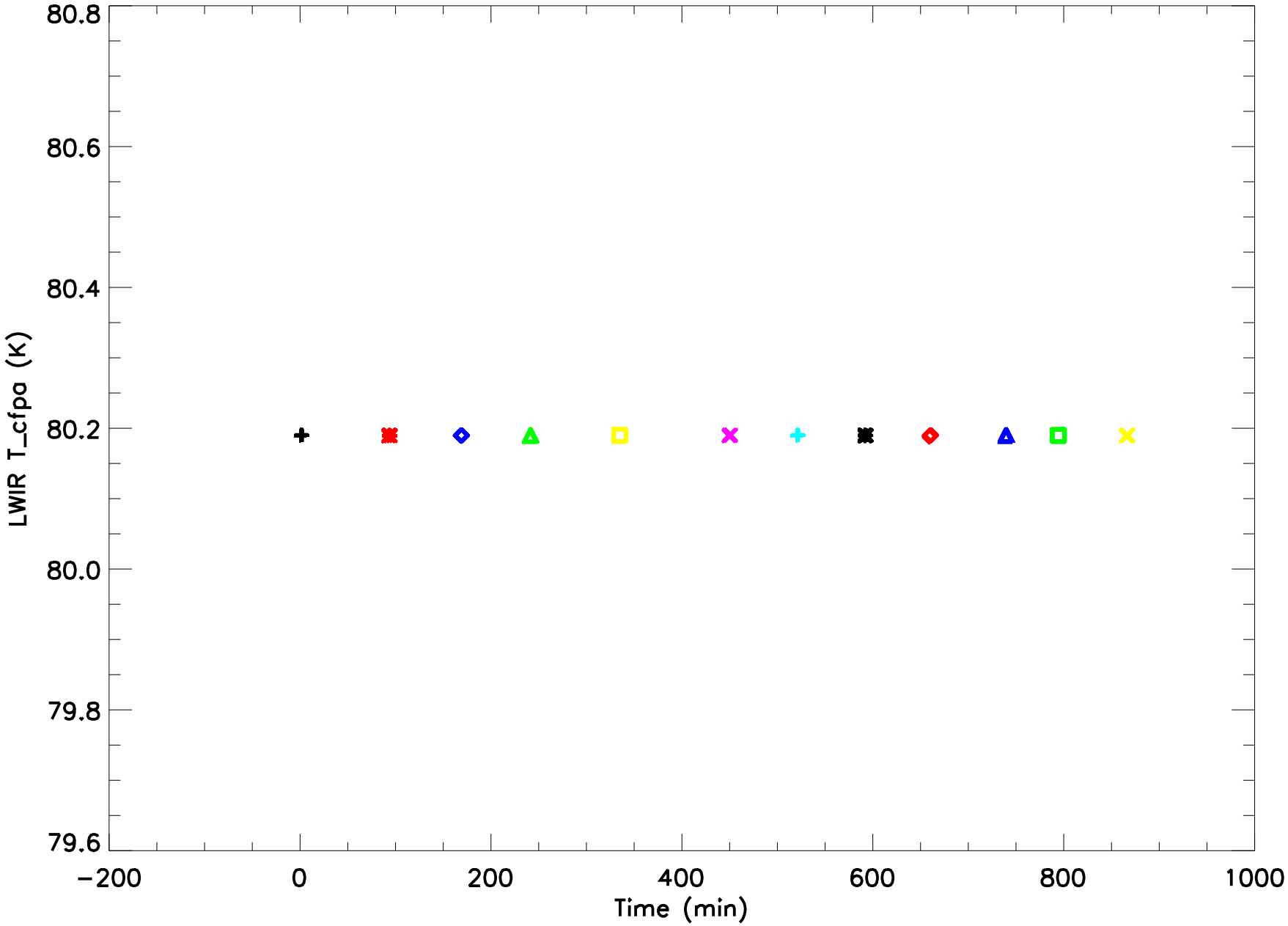

SMWIR T_cfpa vs Time
SMWIR T_cfpa (K)
80.6
80.4
80.2
80.0
79.8
79.6
79.4
−200
0
200
400
600
800
1000
Time (min)

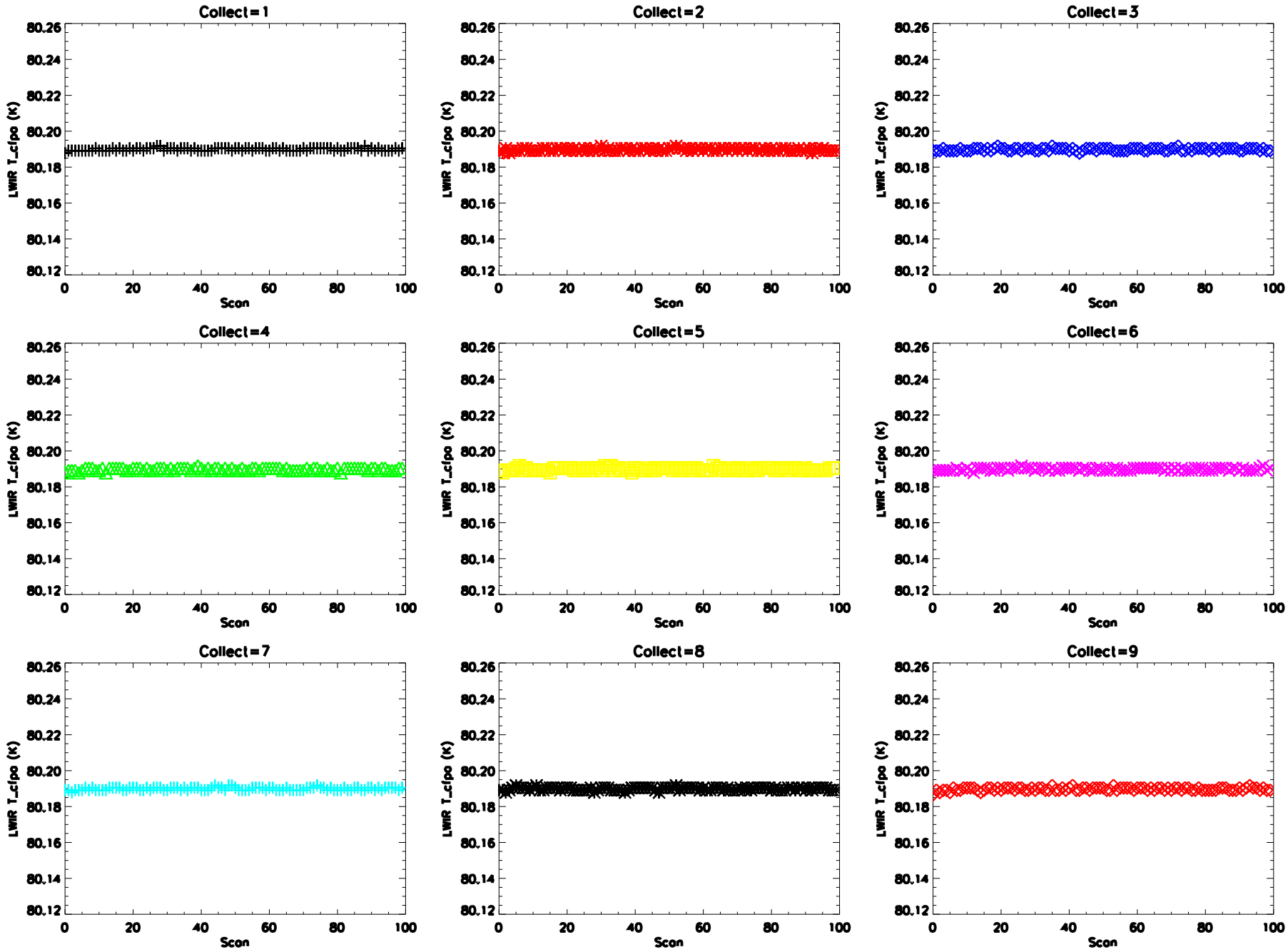
Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
SMWIR T_clpa (K)
Scan
80.12
80.10
80.08
80.06
80.04
80.02
80.00
79.98
0
20
40
60
80
100

SMWIR T_cfpa vs Scan

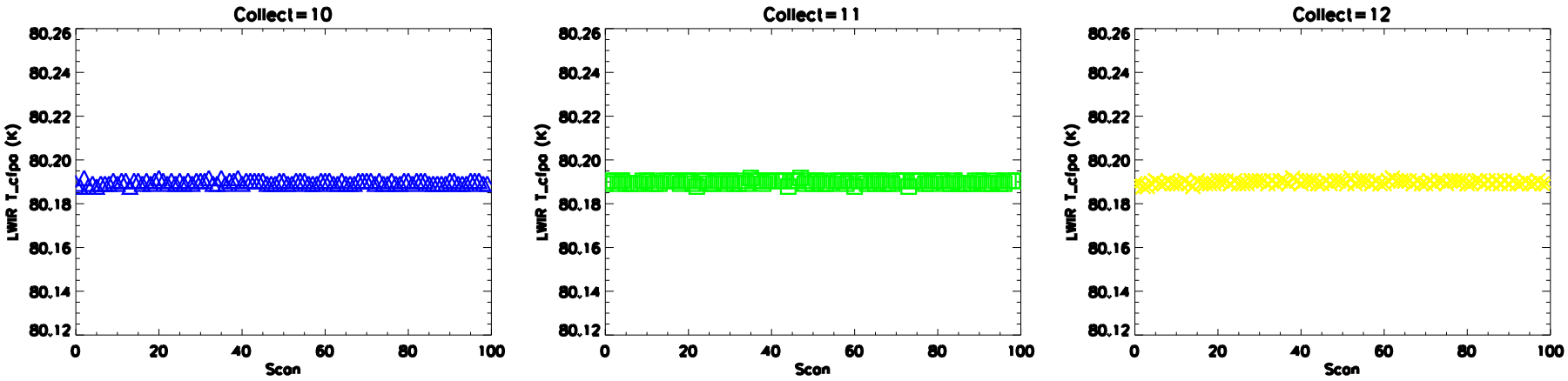


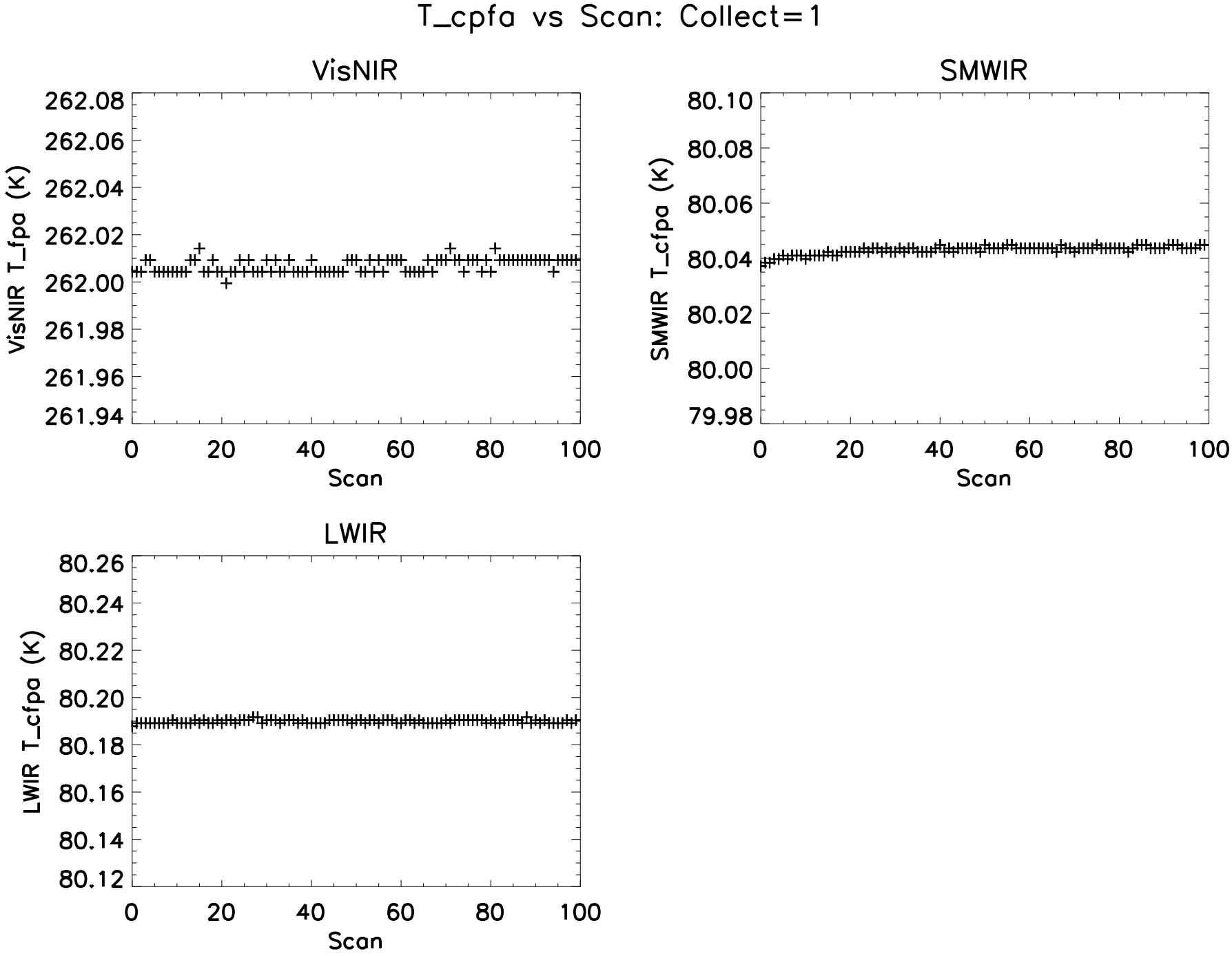

LWIR T_cfpa vs Scan and Collect
LWIR T_cfpa (K)
80.8
80.6
80.4
80.2
80.0
79.8
79.6
0
200
400
600
800
1000
1200
Collect*scan

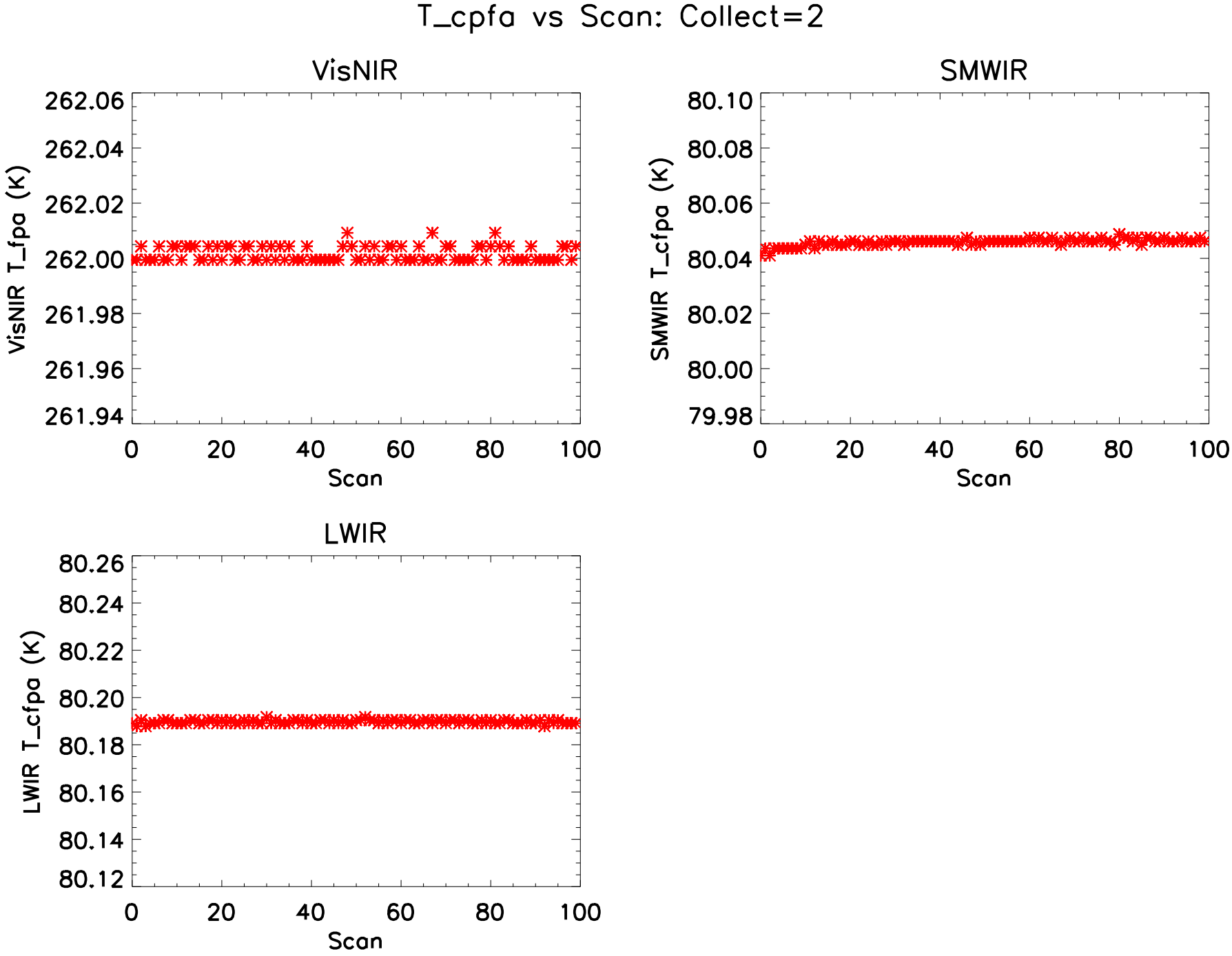

LWIR T_cfpa vs Time
80.8
80.6
80.4
80.2
80.0
79.8
79.6
LWIR T_cfpa (K)
−200
0
200
400
600
800
1000
Time (min)

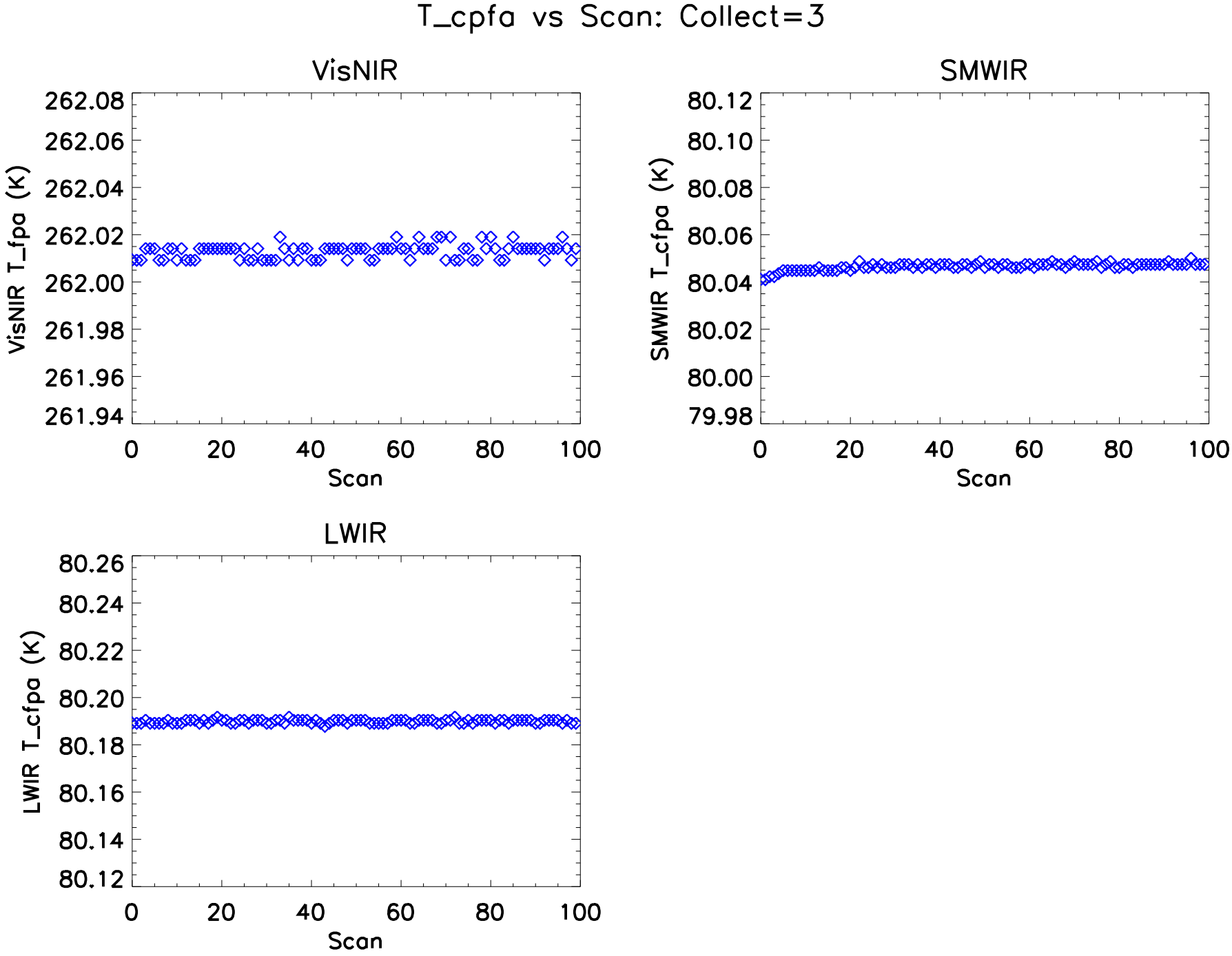

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
LWIR T_clpo (K)
Scan
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100

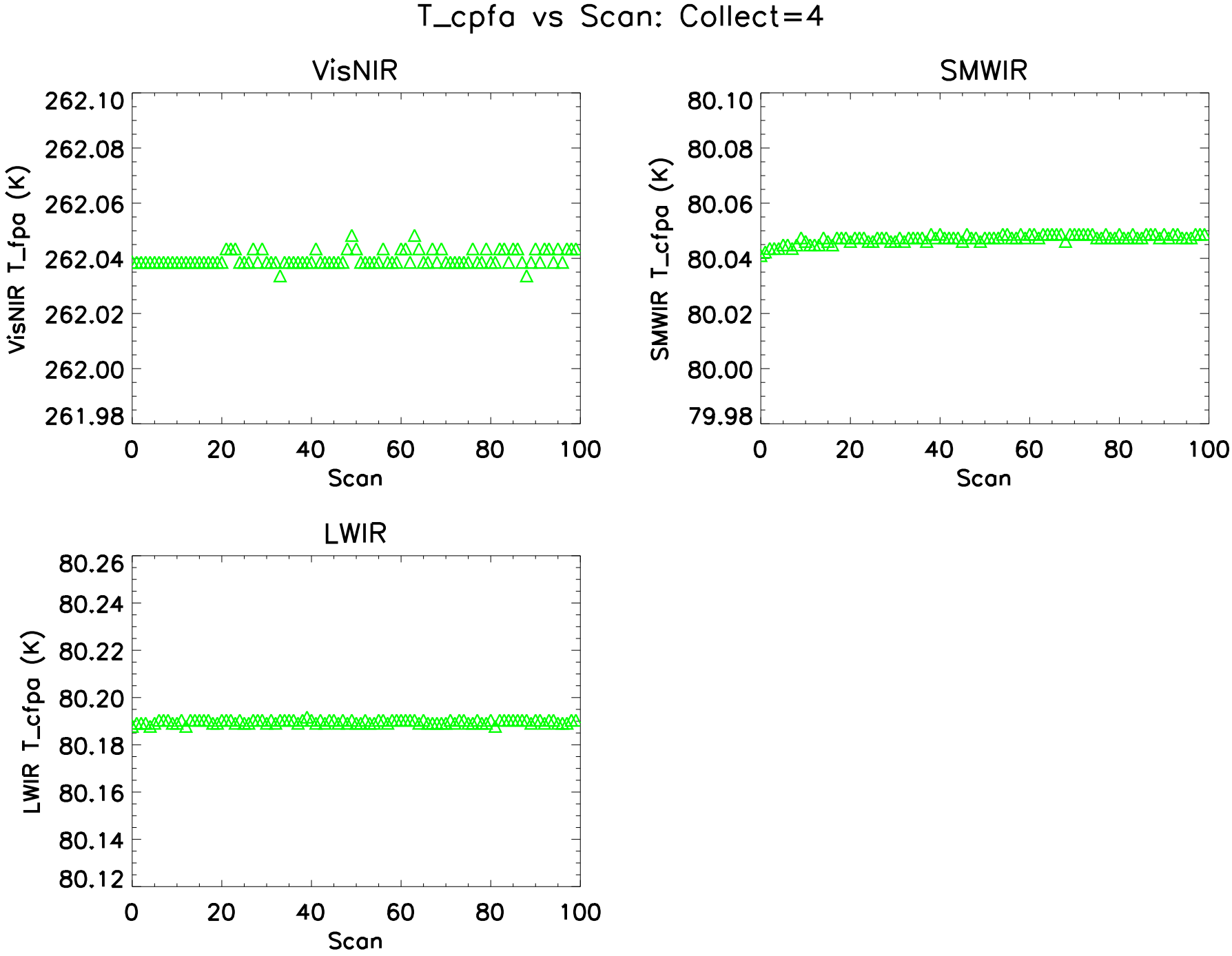
LWIR T_cfpa vs Scan

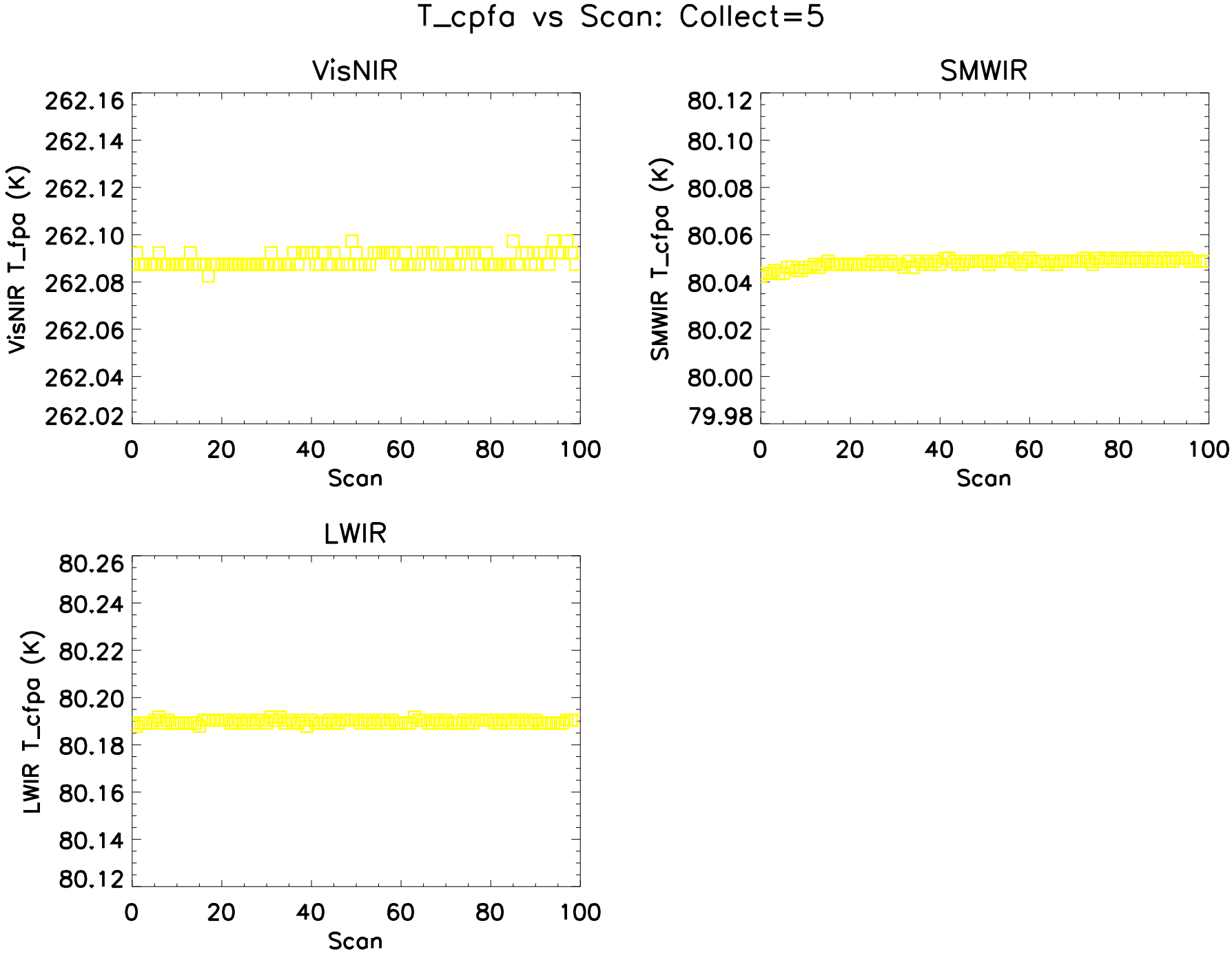


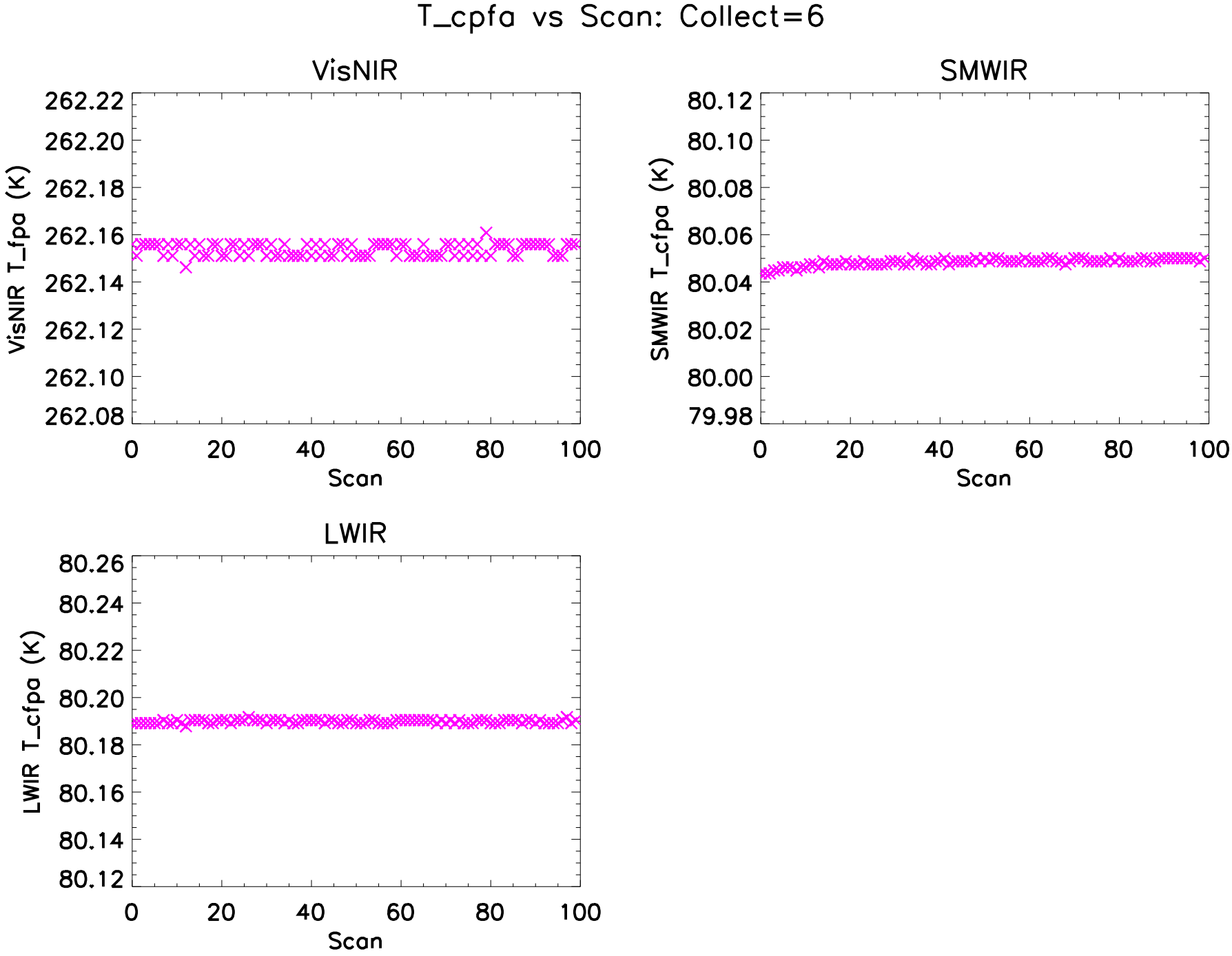

T_cpfa vs Scan: Collect=1
VisNIR
VisNIR T_fpa (K)
262.08
262.06
262.04
262.02
262.00
261.98
261.96
261.94
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
80.10
80.08
80.06
80.04
80.02
80.00
79.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

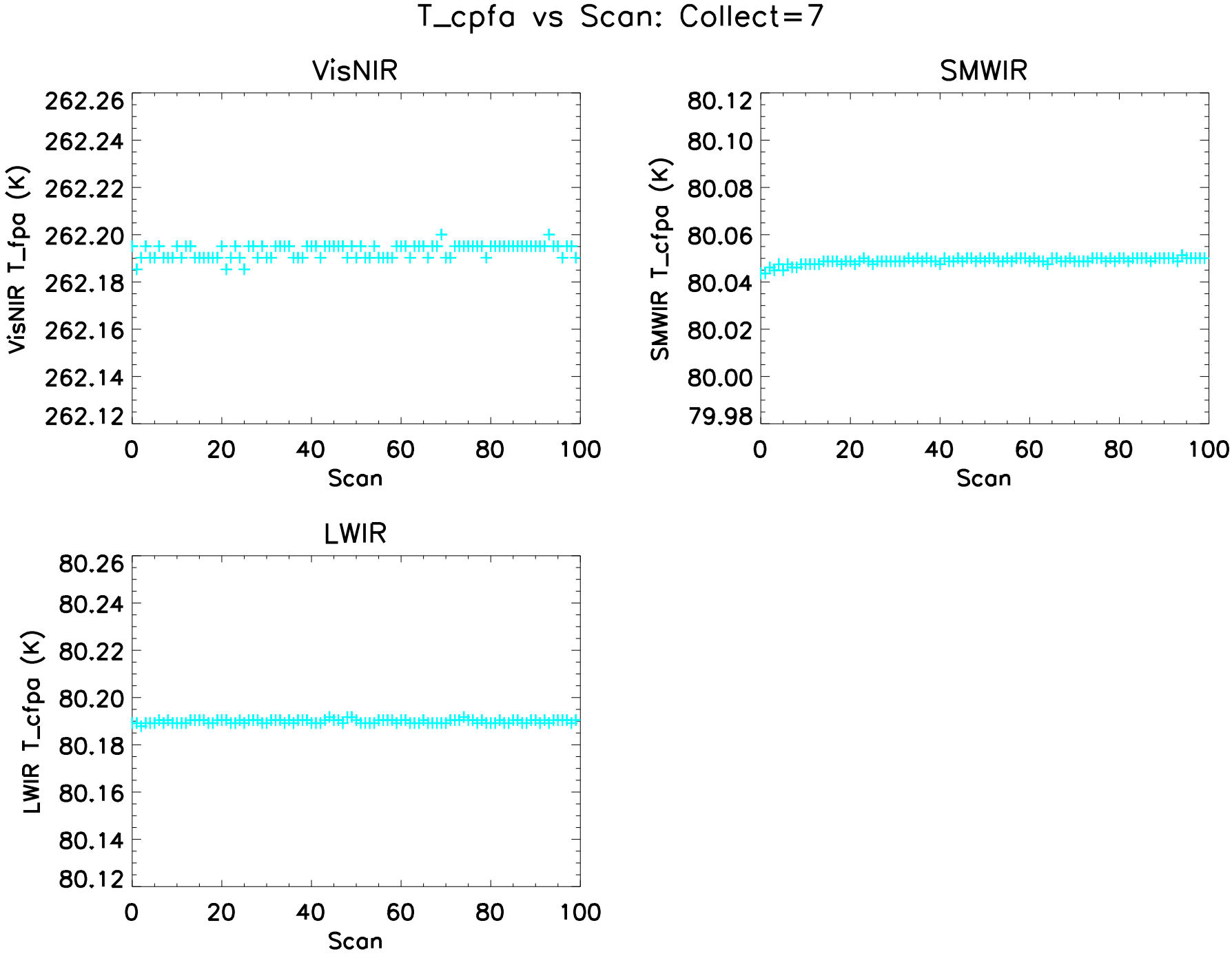

T_cpfa vs Scan: Collect=2
VisNIR
VisNIR T_fpa (K)
262.06
262.04
262.02
262.00
261.98
261.96
261.94
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
80.10
80.08
80.06
80.04
80.02
80.00
79.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

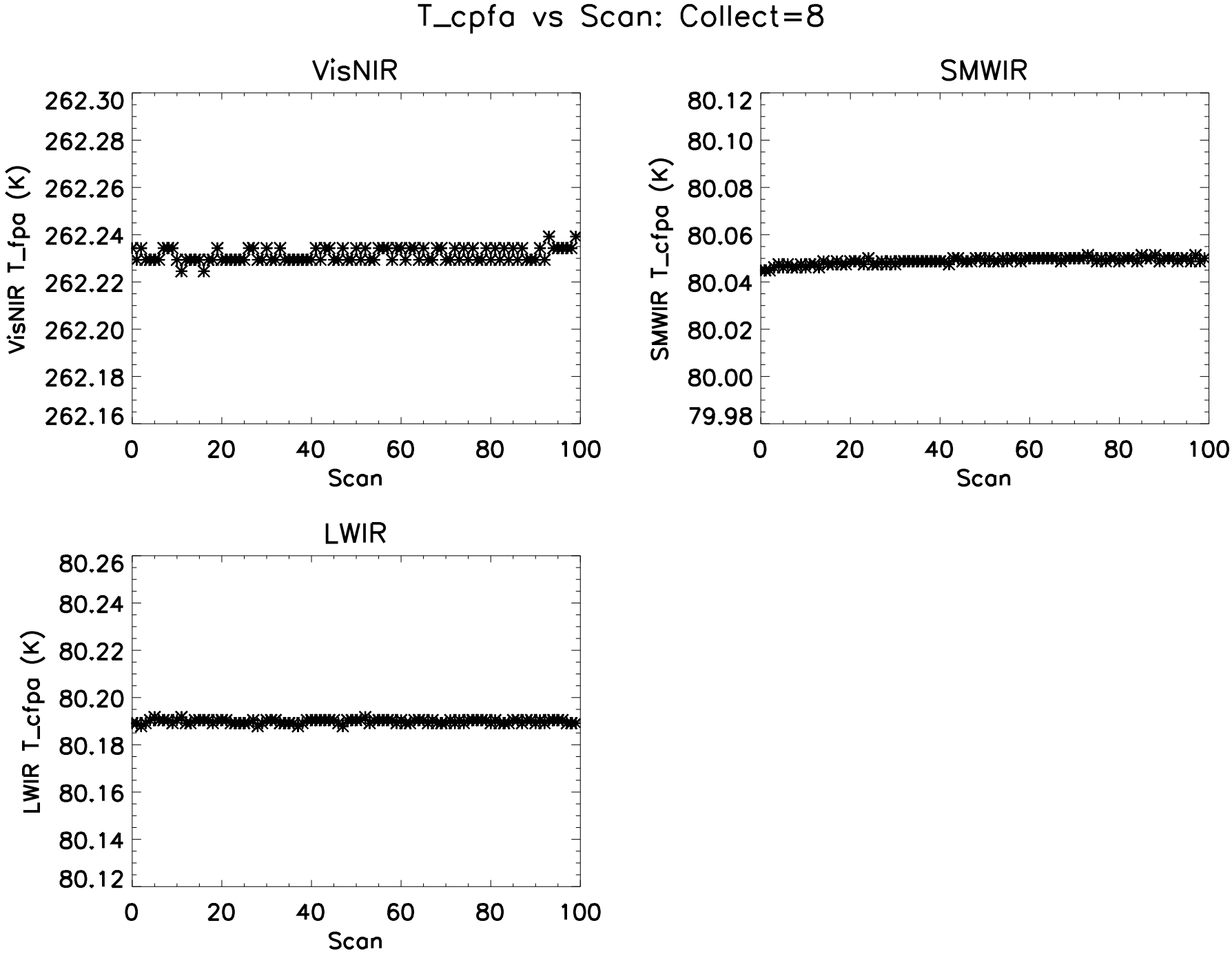

T_cpfa vs Scan: Collect=3
VisNIR
VisNIR T_fpa (K)
262.08
262.06
262.04
262.02
262.00
261.98
261.96
261.94
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
80.12
80.10
80.08
80.06
80.04
80.02
80.00
79.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

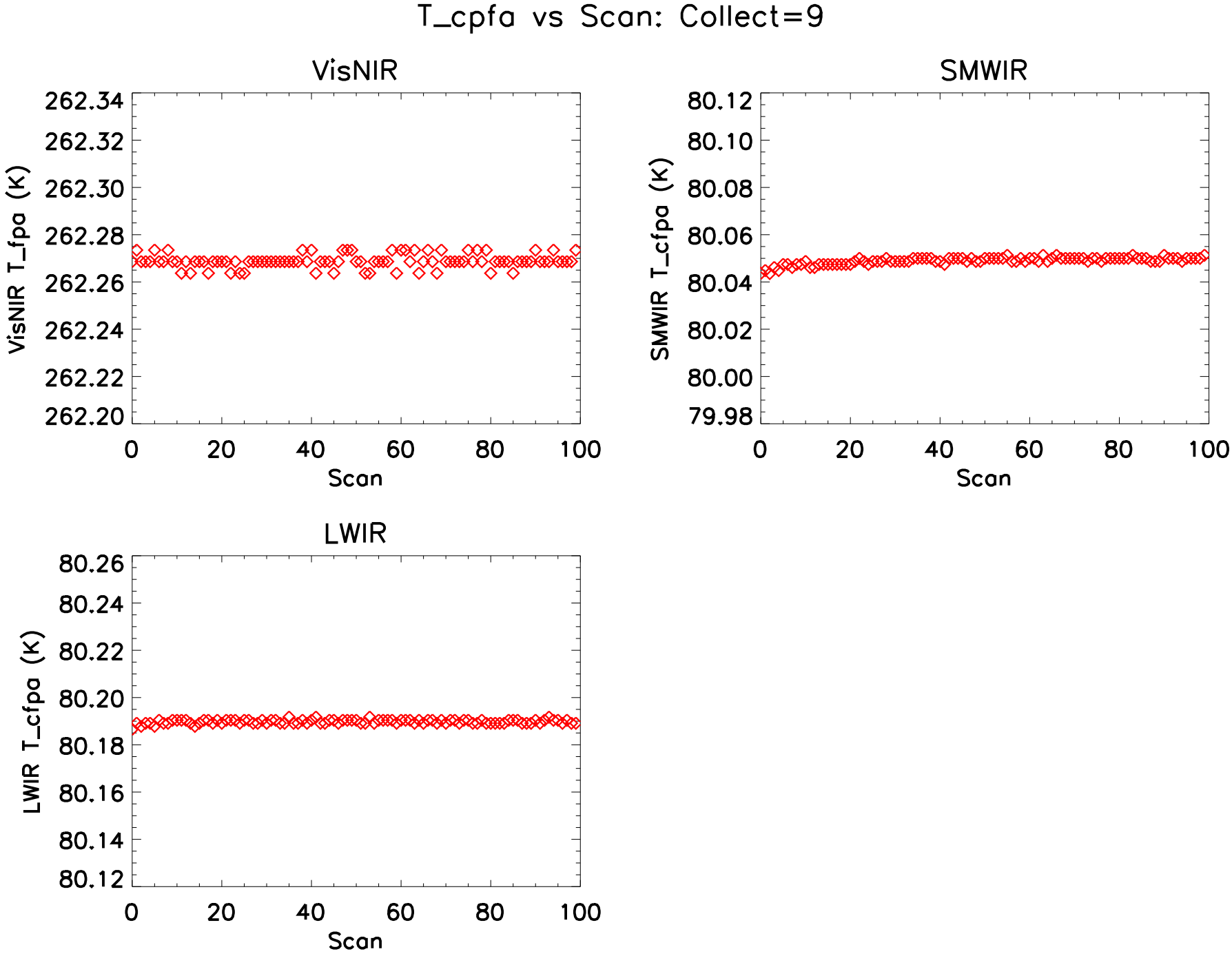

T_cpfa vs Scan: Collect=4
VisNIR
VisNIR T_fpa (K)
262.10
262.08
262.06
262.04
262.02
262.00
261.98
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
80.10
80.08
80.06
80.04
80.02
80.00
79.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

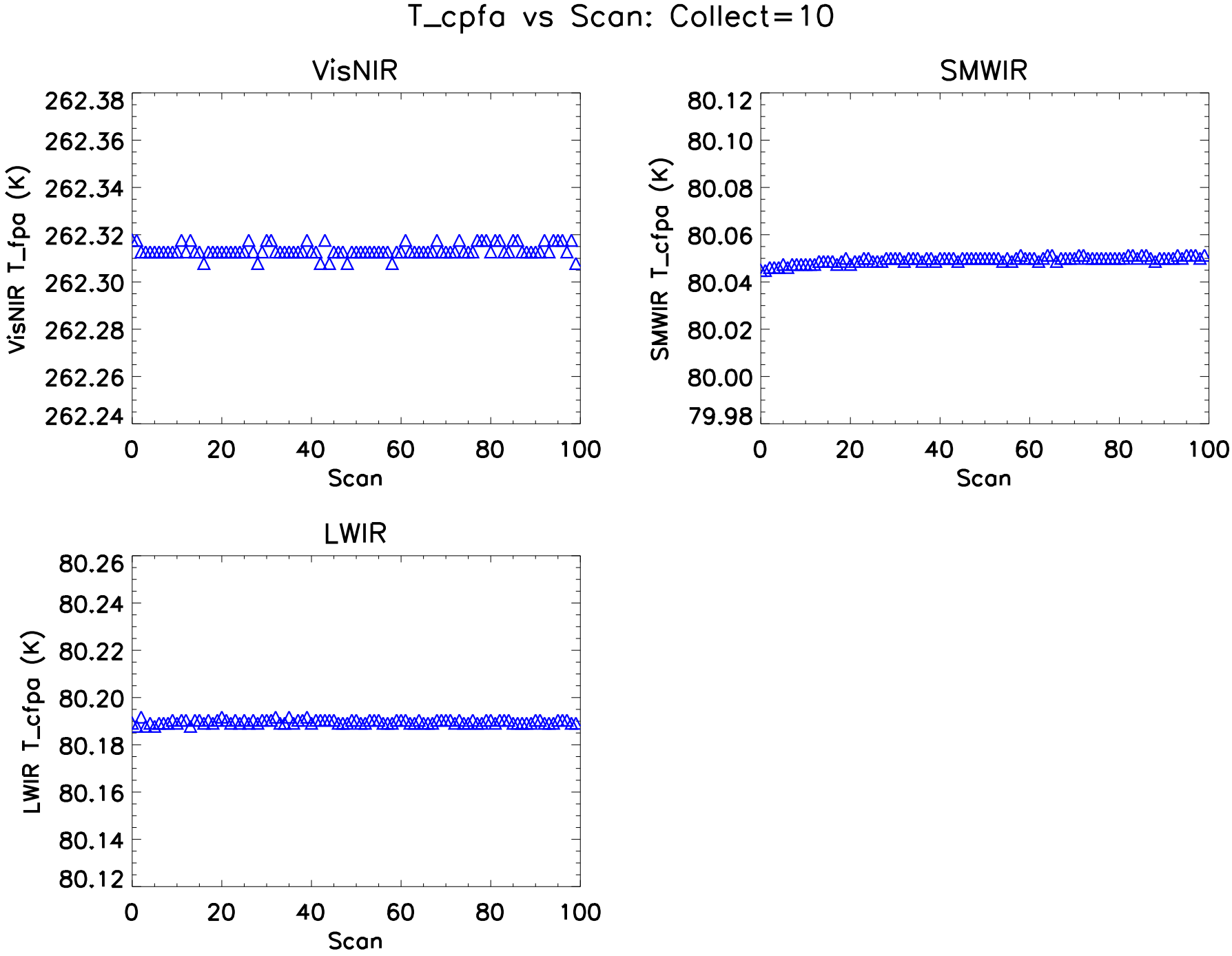

T_cpfa vs Scan: Collect=5
VisNIR
VisNIR T_fpa (K)
262.16
262.14
262.12
262.10
262.08
262.06
262.04
262.02
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
80.12
80.10
80.08
80.06
80.04
80.02
80.00
79.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

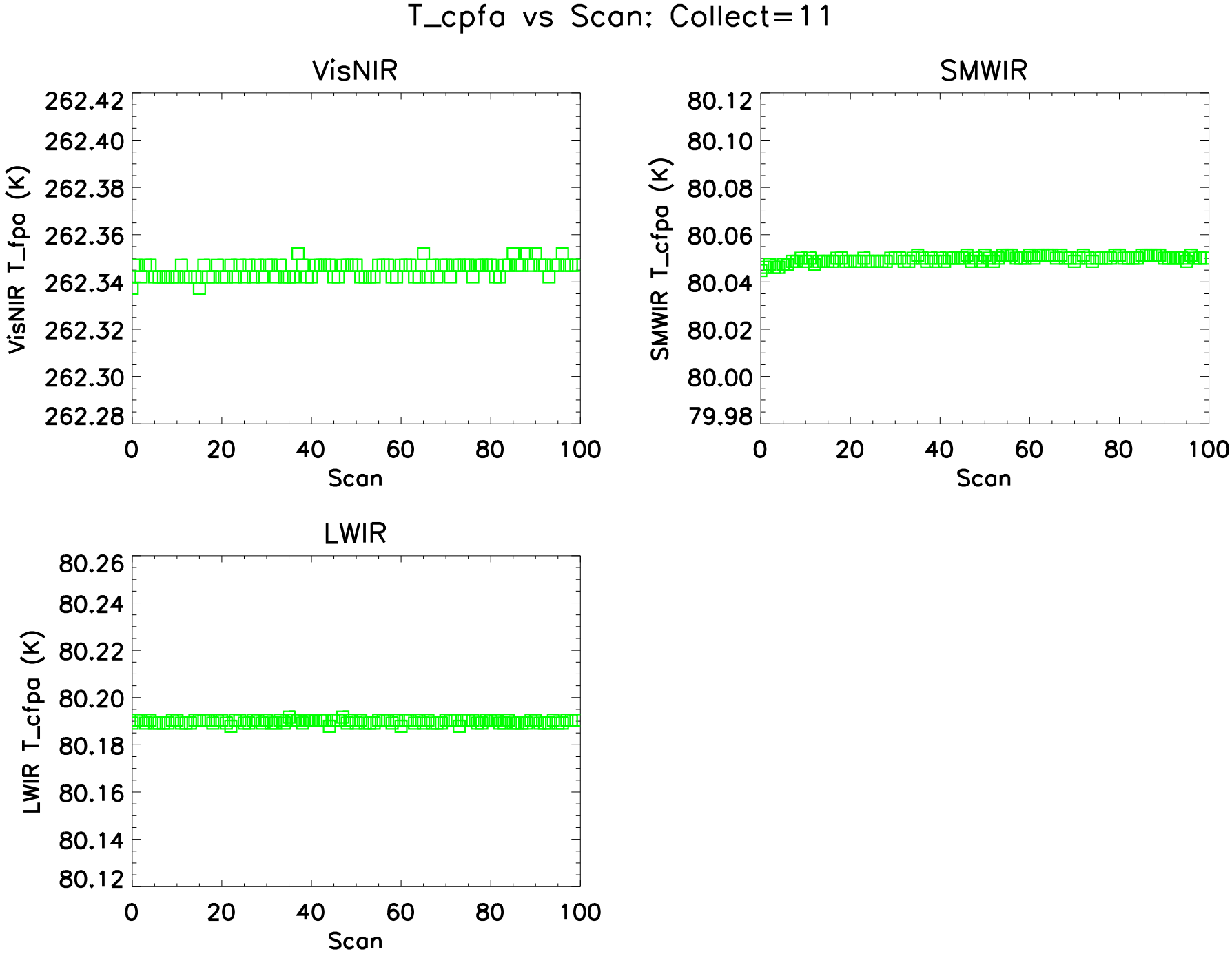

T_cpfa vs Scan: Collect=6
VisNIR
VisNIR T_fpa (K)
262.22
262.20
262.18
262.16
262.14
262.12
262.10
262.08
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
80.12
80.10
80.08
80.06
80.04
80.02
80.00
79.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

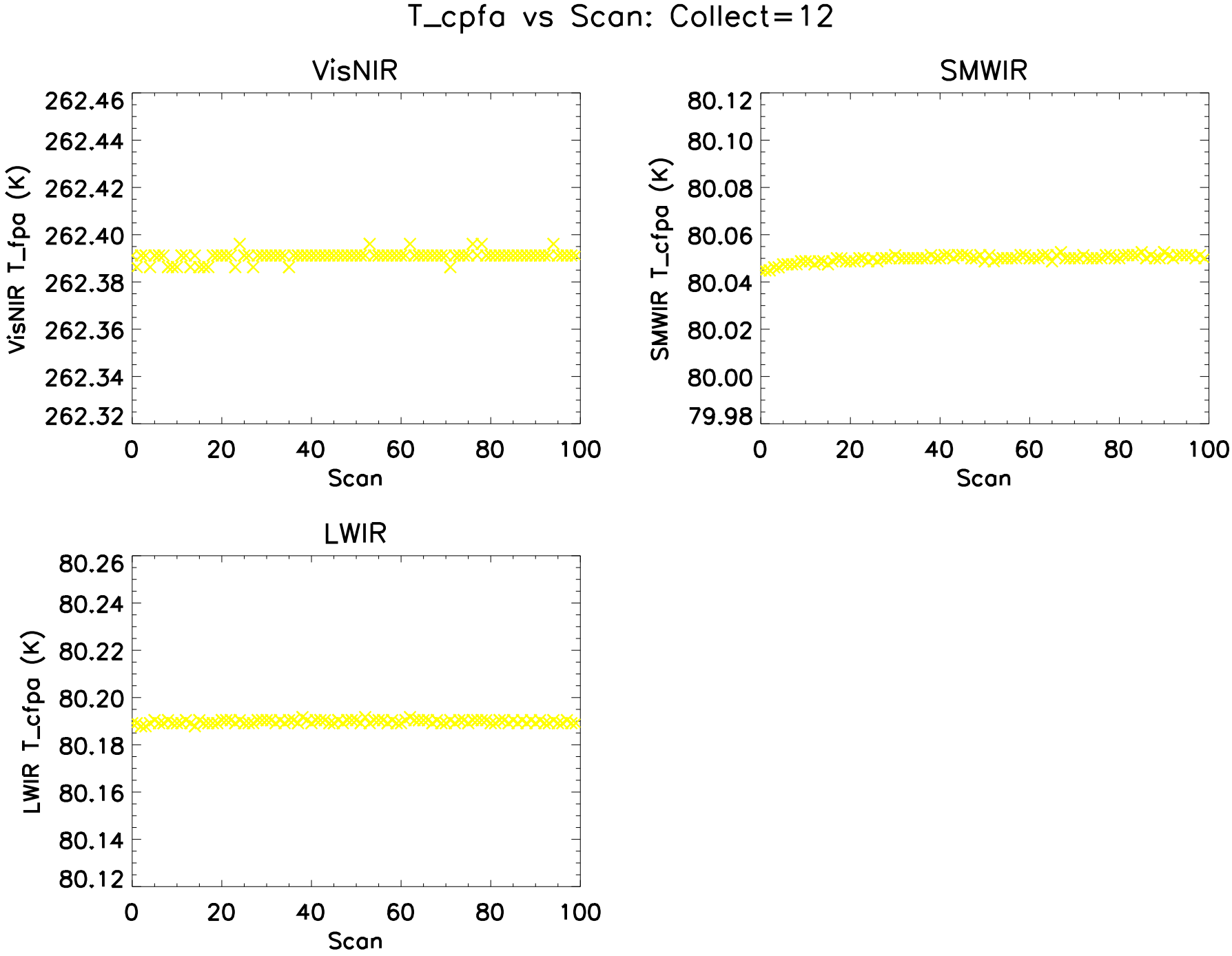

T_cpfa vs Scan: Collect=7
VisNIR
VisNIR T_fpa (K)
262.26
262.24
262.22
262.20
262.18
262.16
262.14
262.12
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
80.12
80.10
80.08
80.06
80.04
80.02
80.00
79.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

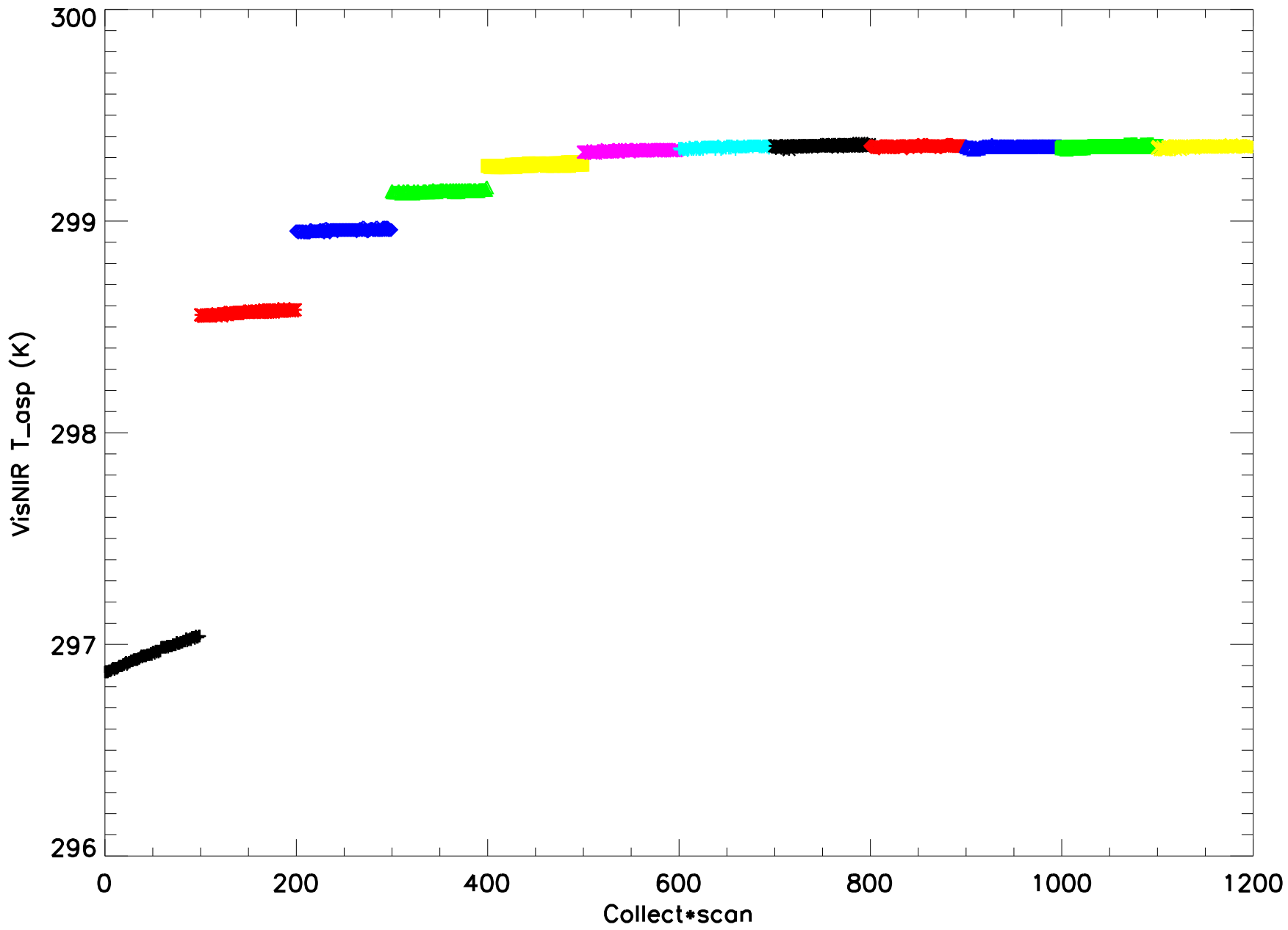

T_cpfa vs Scan: Collect=8
VisNIR
VisNIR T_fpa (K)
262.30
262.28
262.26
262.24
262.22
262.20
262.18
262.16
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
80.12
80.10
80.08
80.06
80.04
80.02
80.00
79.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

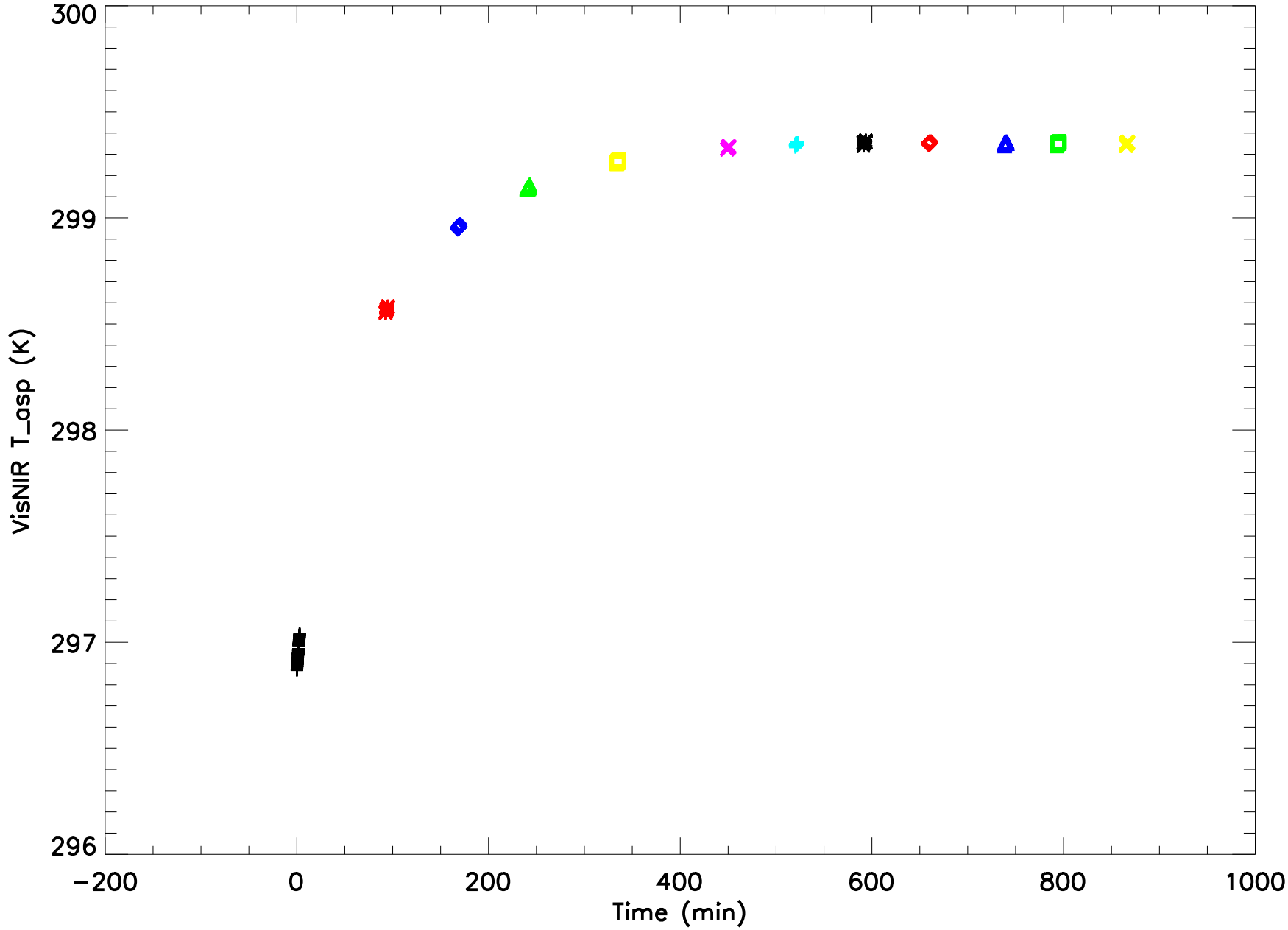

T_cpfa vs Scan: Collect=9
VisNIR
VisNIR T_fpa (K)
262.34
262.32
262.30
262.28
262.26
262.24
262.22
262.20
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
80.12
80.10
80.08
80.06
80.04
80.02
80.00
79.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

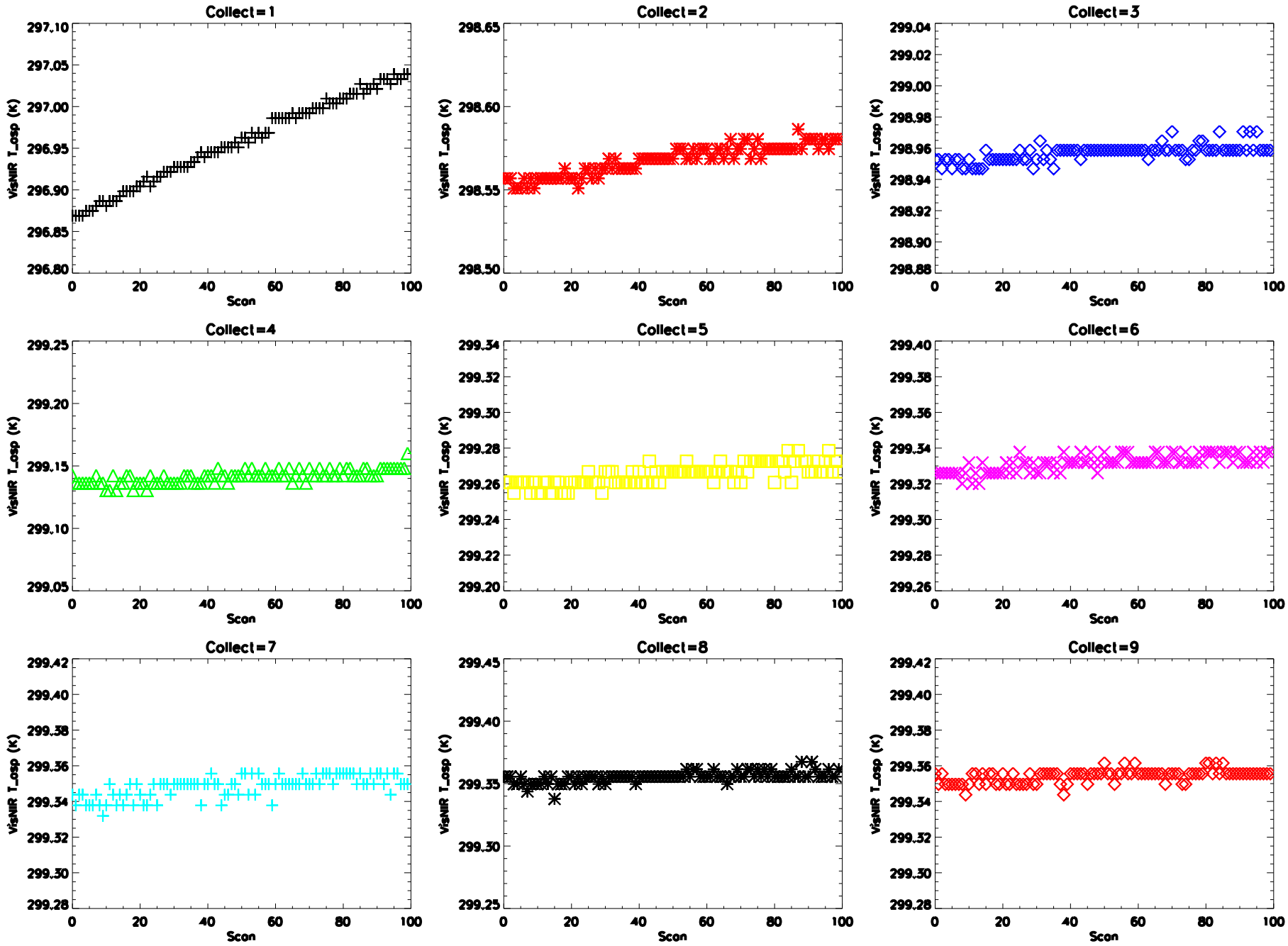

T_cpfa vs Scan: Collect=10
VisNIR
VisNIR T_fpa (K)
262.38
262.36
262.34
262.32
262.30
262.28
262.26
262.24
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
80.12
80.10
80.08
80.06
80.04
80.02
80.00
79.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan


T_cpfa vs Scan: Collect=11
VisNIR
VisNIR T_fpa (K)
262.42
262.40
262.38
262.36
262.34
262.32
262.30
262.28
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
80.12
80.10
80.08
80.06
80.04
80.02
80.00
79.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

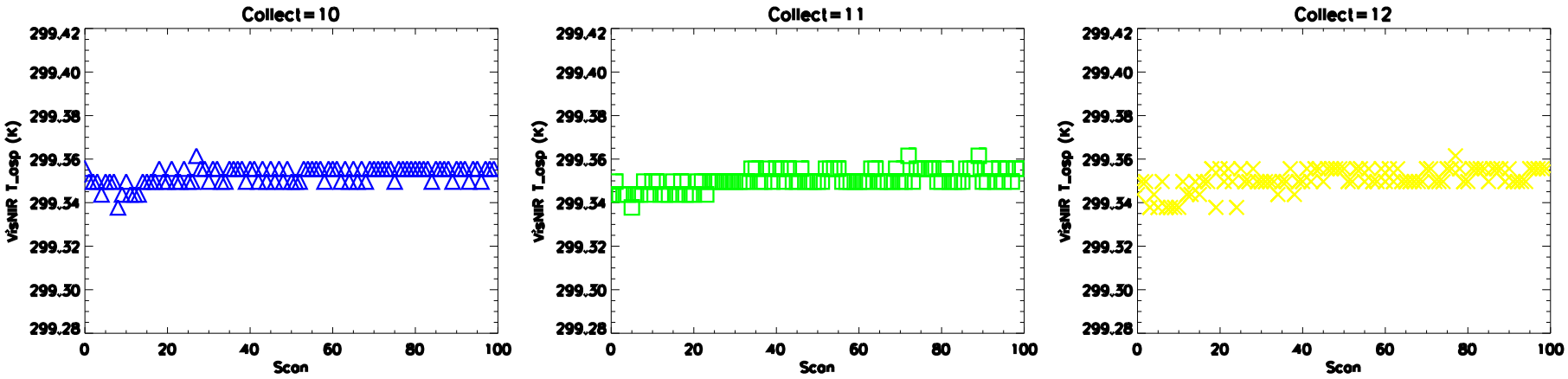

T_cpfa vs Scan: Collect=12
VisNIR
VisNIR T_fpa (K)
262.46
262.44
262.42
262.40
262.38
262.36
262.34
262.32
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
80.12
80.10
80.08
80.06
80.04
80.02
80.00
79.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

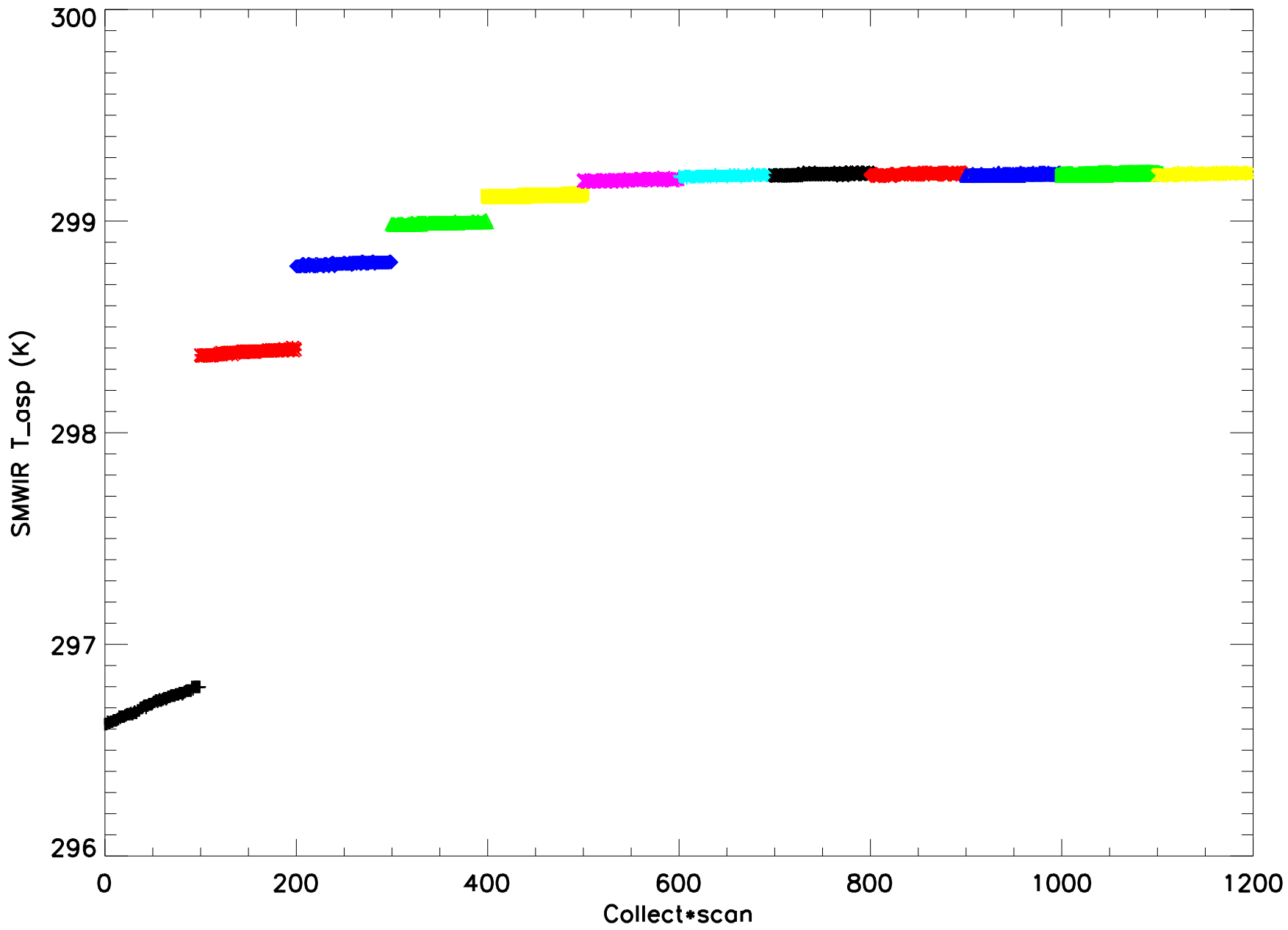

VisNIR T_asp vs Scan and Collect
300
299
298
297
296
VisNIR T_asp (K)
0
200
400
600
800
1000
1200
Collect*scan

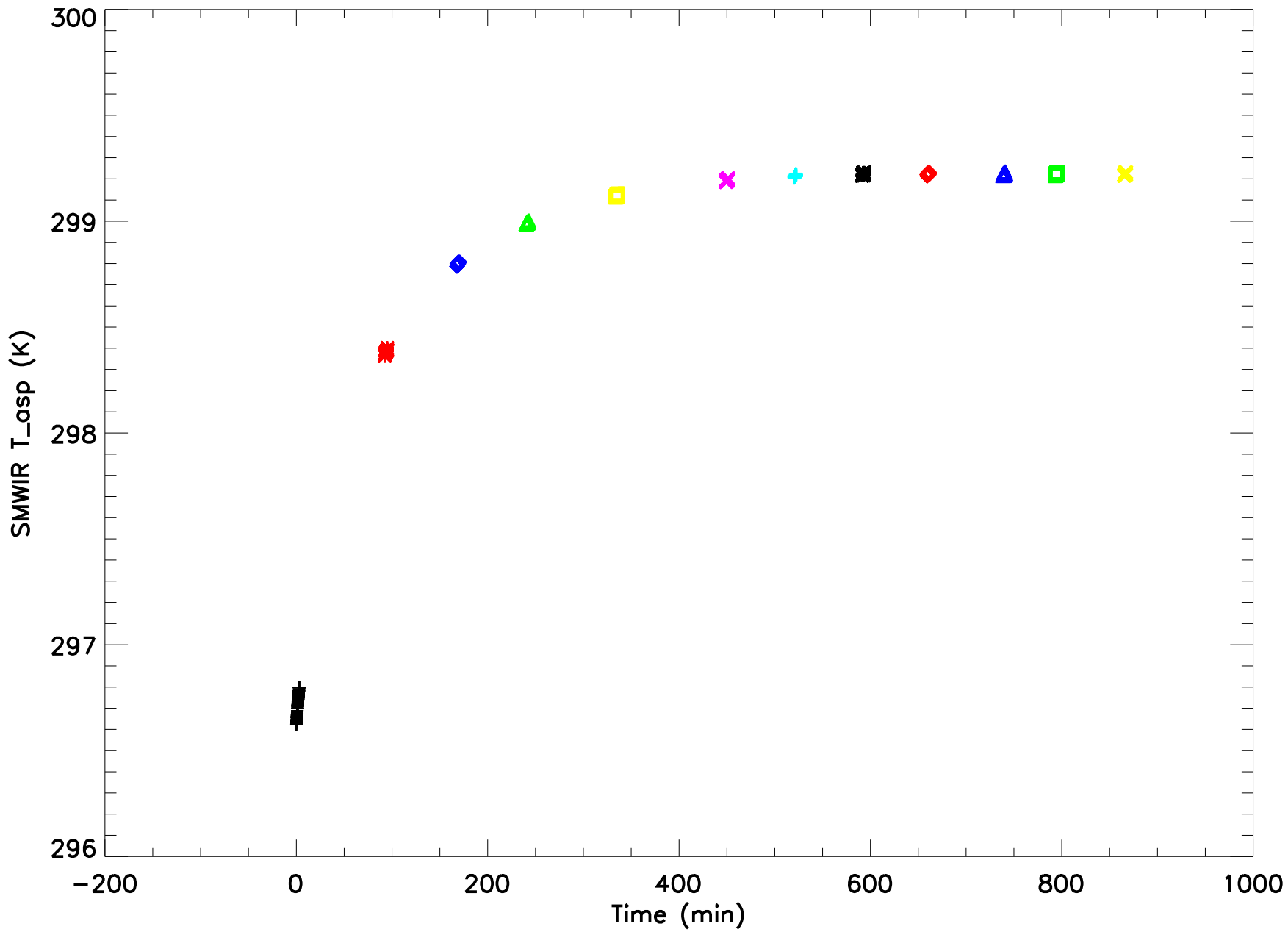

VisNIR T_asp vs Time
VisNIR T_asp (K)
300
299
298
297
296
−200
0
200
400
600
800
1000
Time (min)

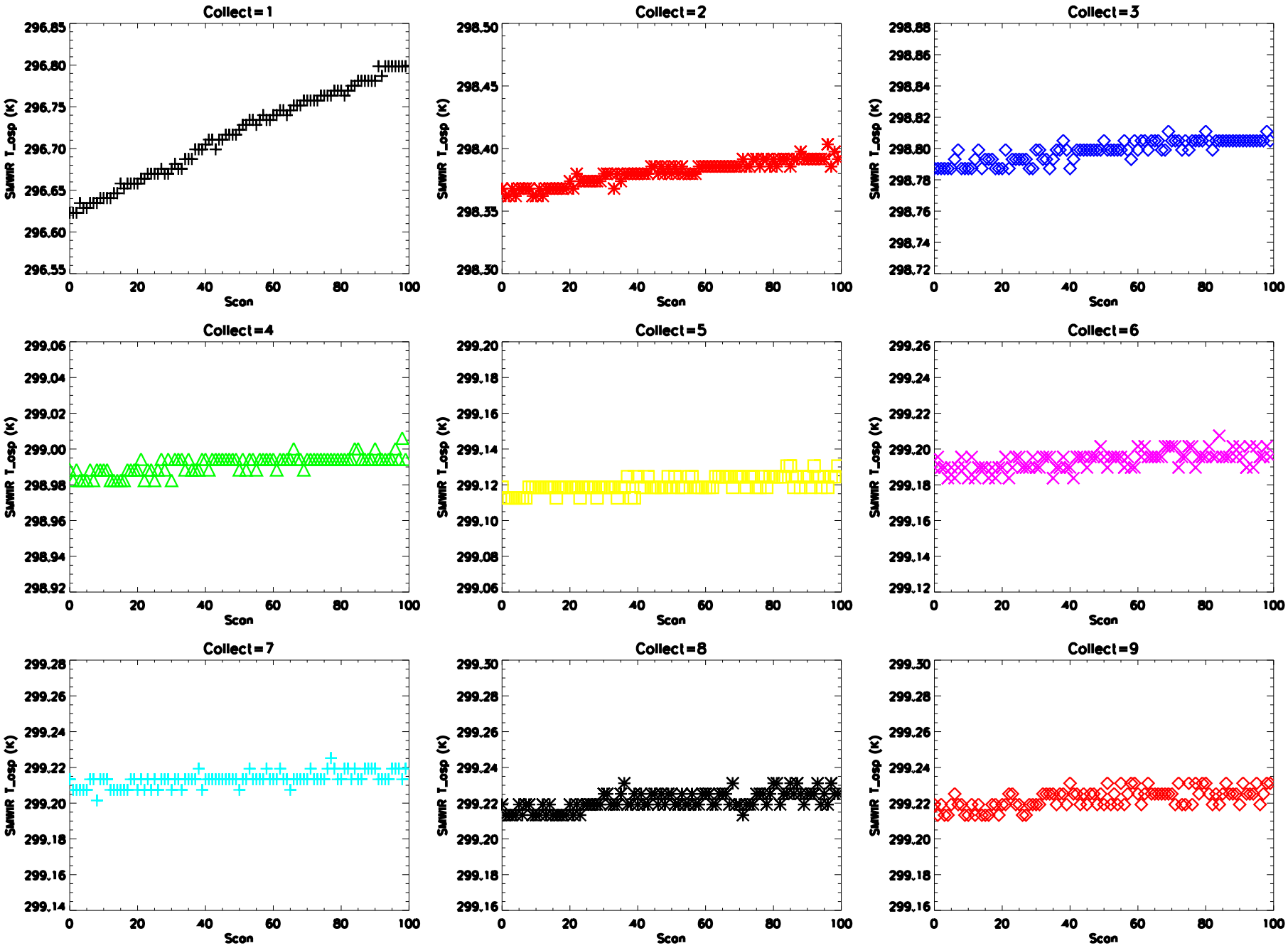

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
VisNIR T_osp (K)
Scan

VisNIR T_asp vs Scan

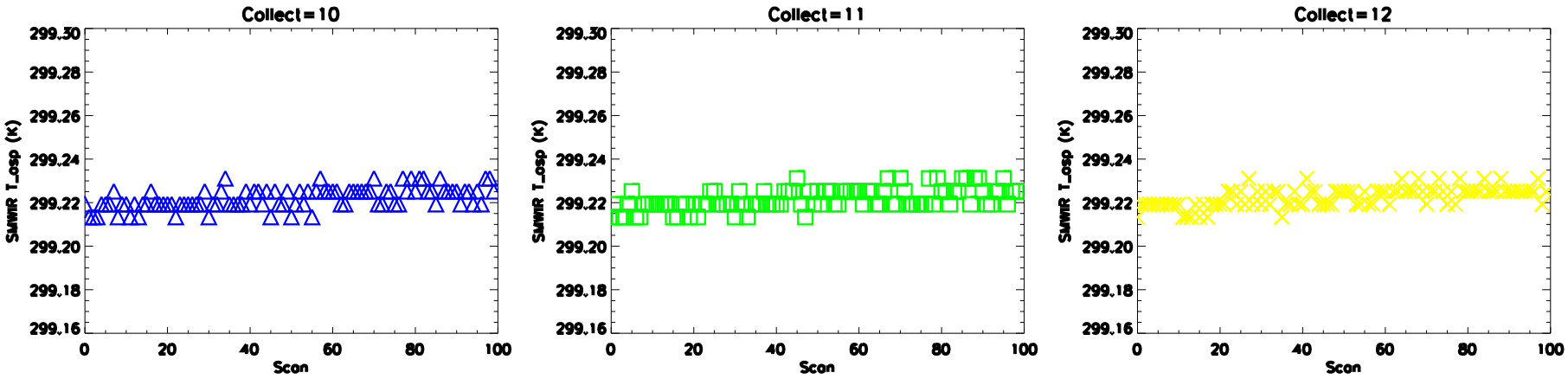


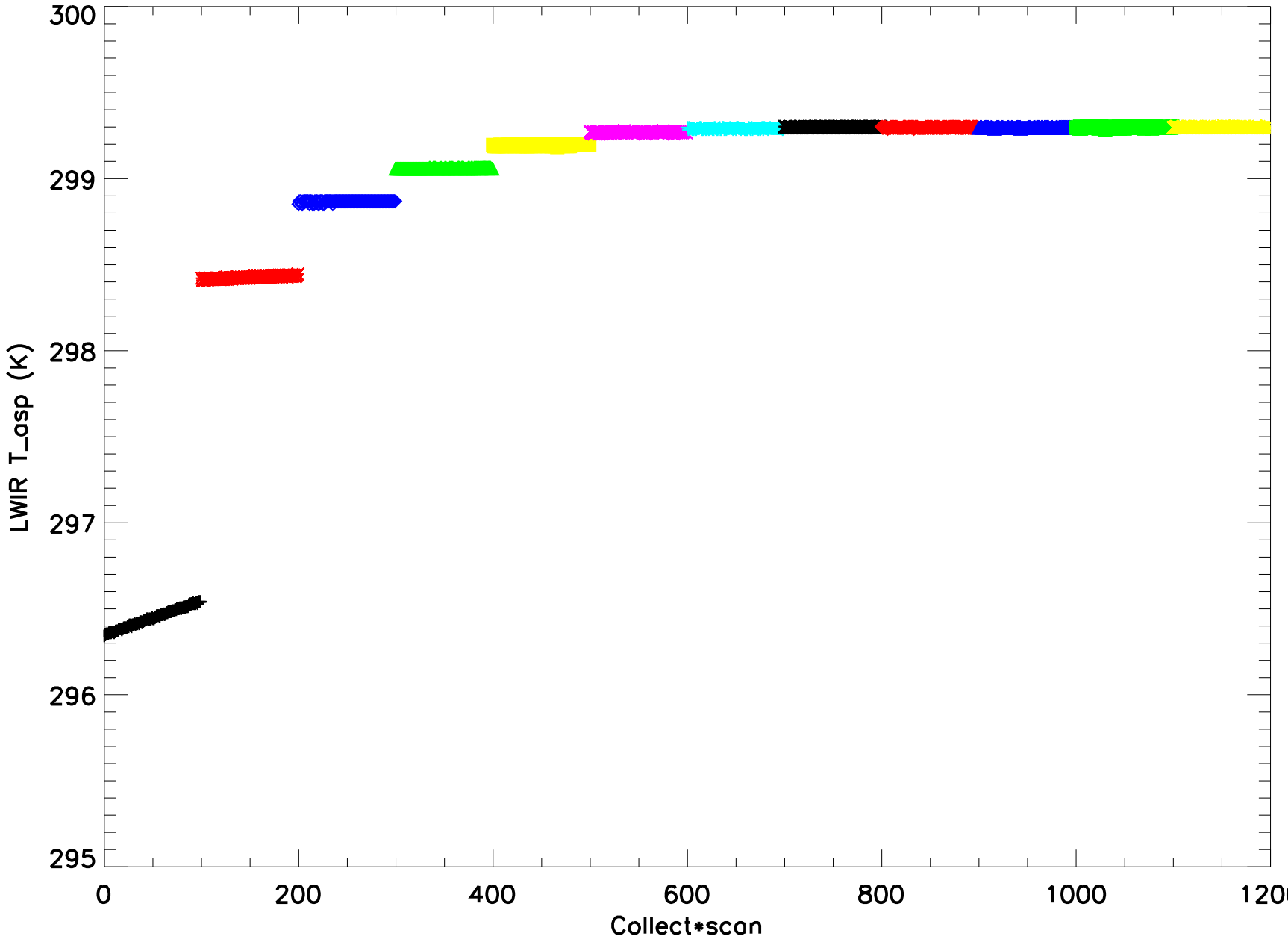

SMWIR T_asp vs Scan and Collect
SMWIR T_asp (K)
300
299
298
297
296
0
200
400
600
800
1000
1200
Collect*scan

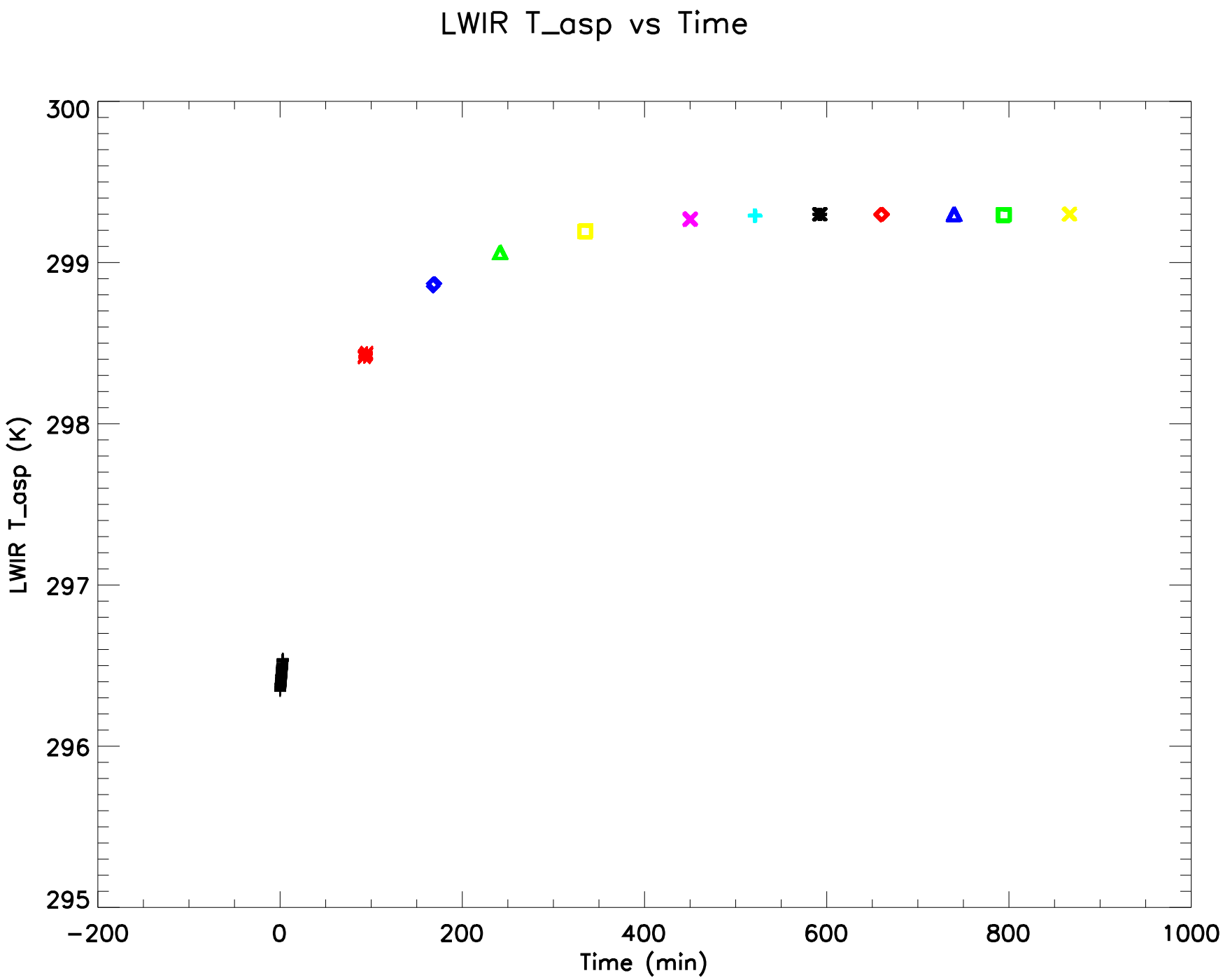

SMWIR T_asp vs Time
SMWIR T_asp (K)
300
299
298
297
296
−200
0
200
400
600
800
1000
Time (min)

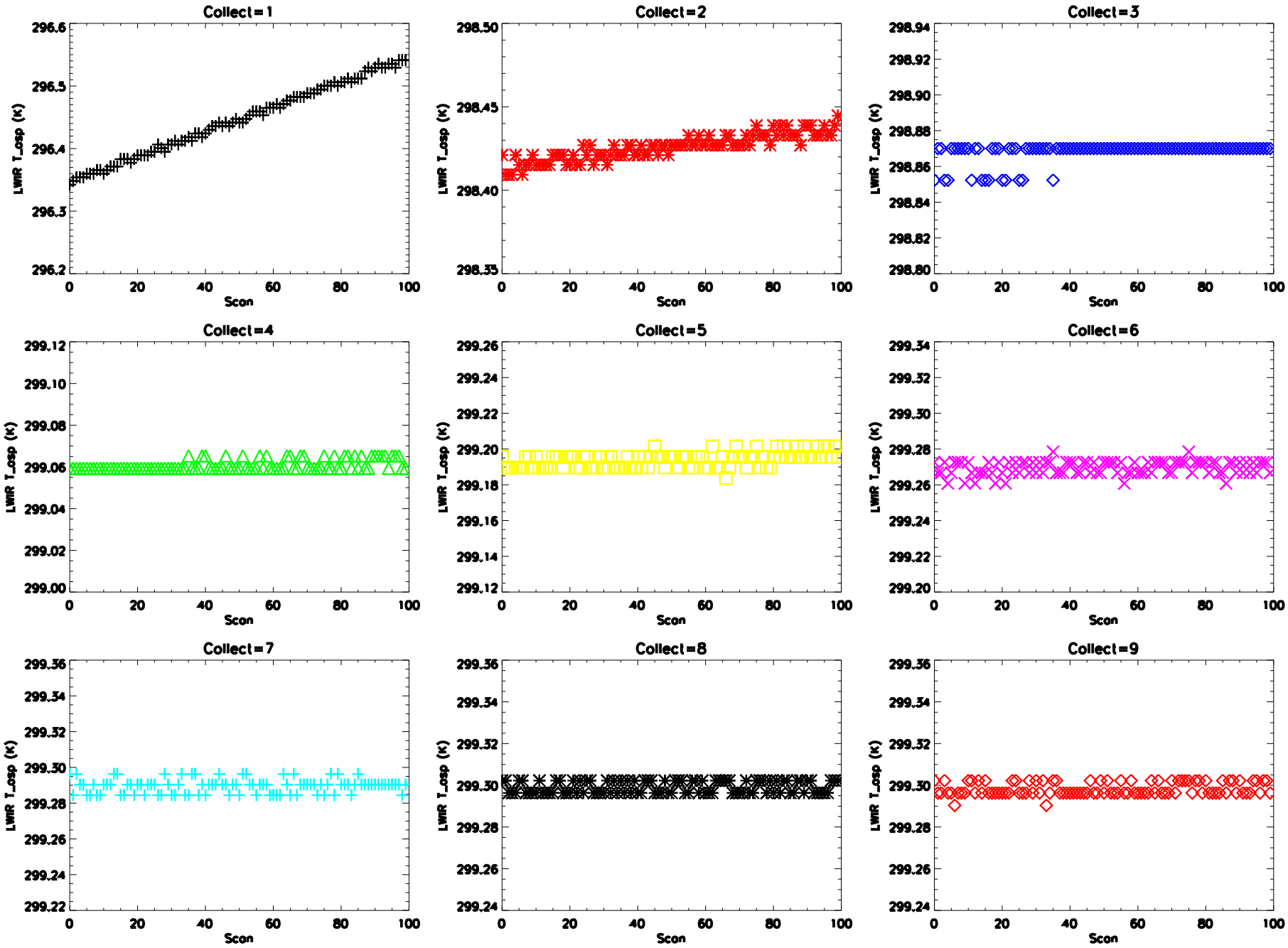

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
SNWNR T_osp (K)
Scan

SMWIR T_asp vs Scan

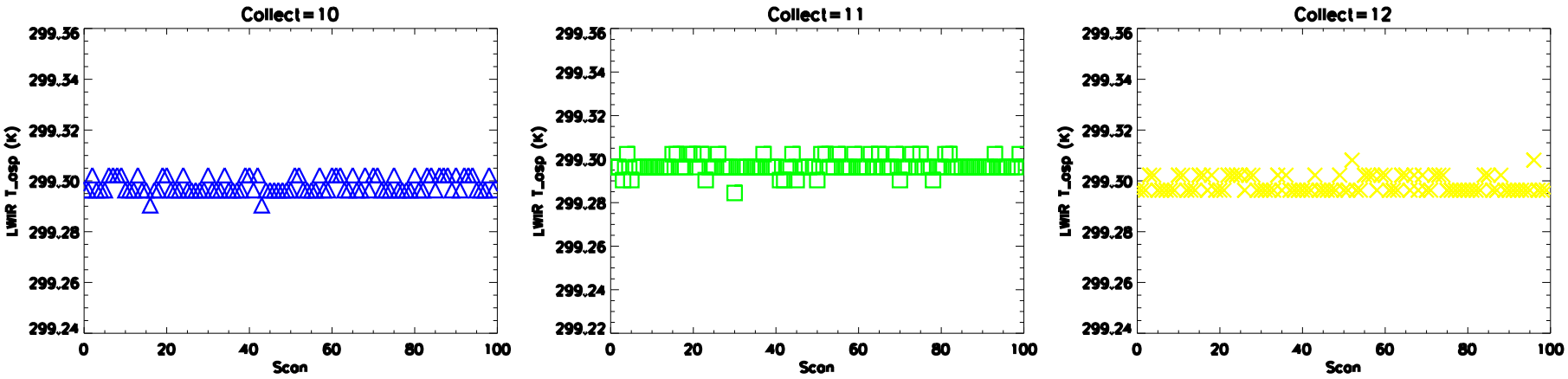


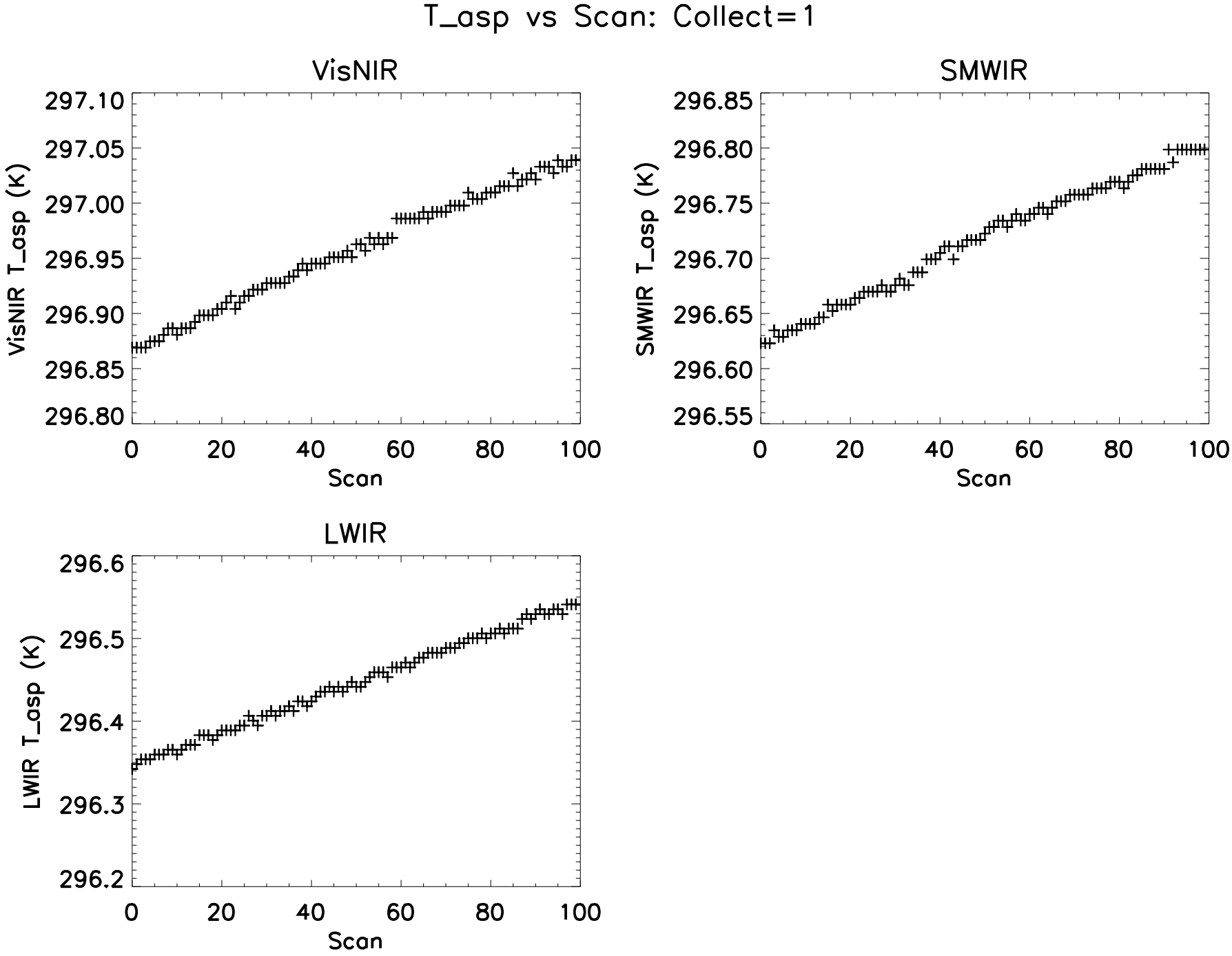

LWIR T_asp vs Scan and Collect
LWIR T_asp (K)
300
299
298
297
296
295
0
200
400
600
800
1000
1200
Collect*scan

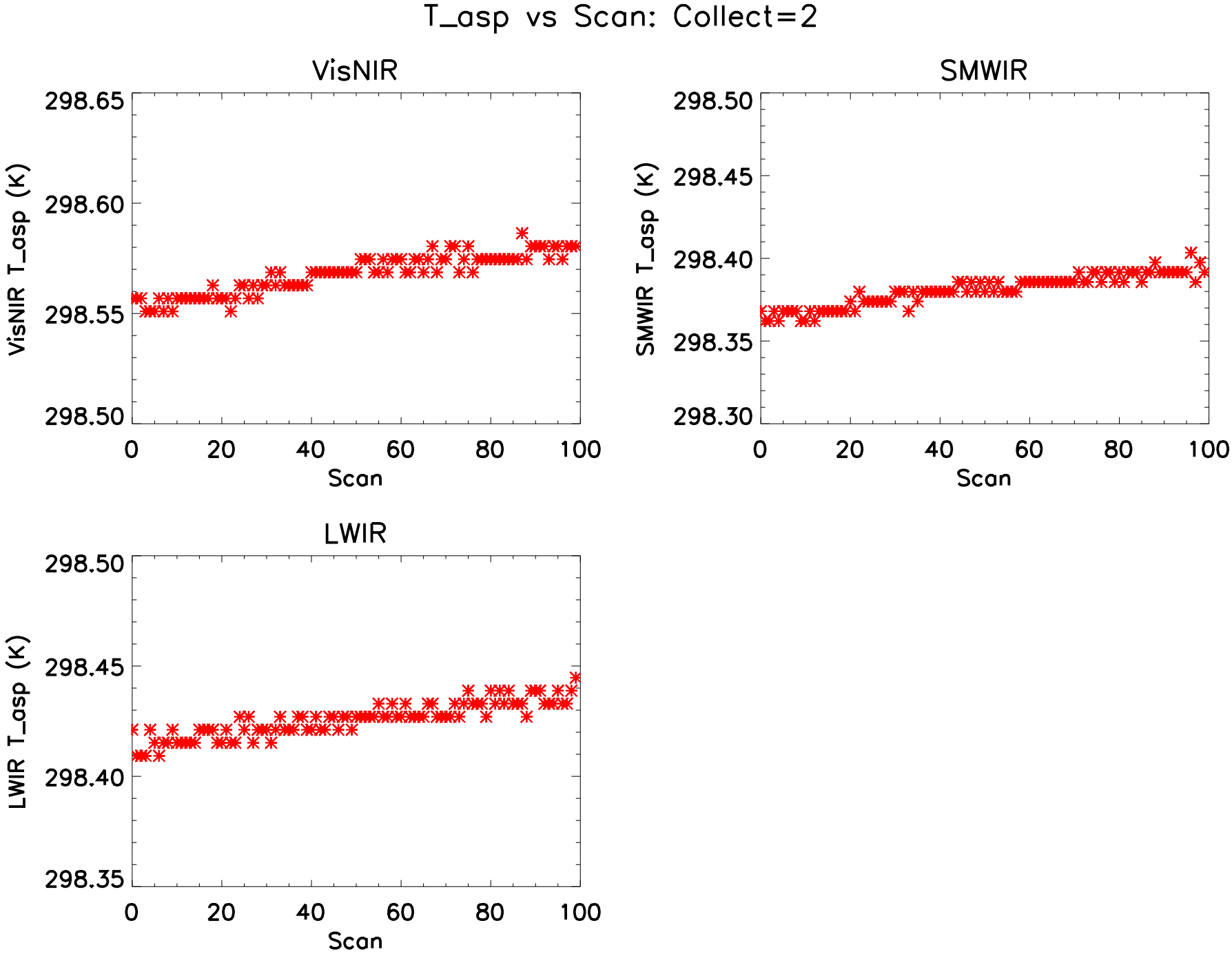

LWIR T_asp vs Time
LWIR T_asp (K)
300
299
298
297
296
295
−200
0
200
400
600
800
1000
Time (min)

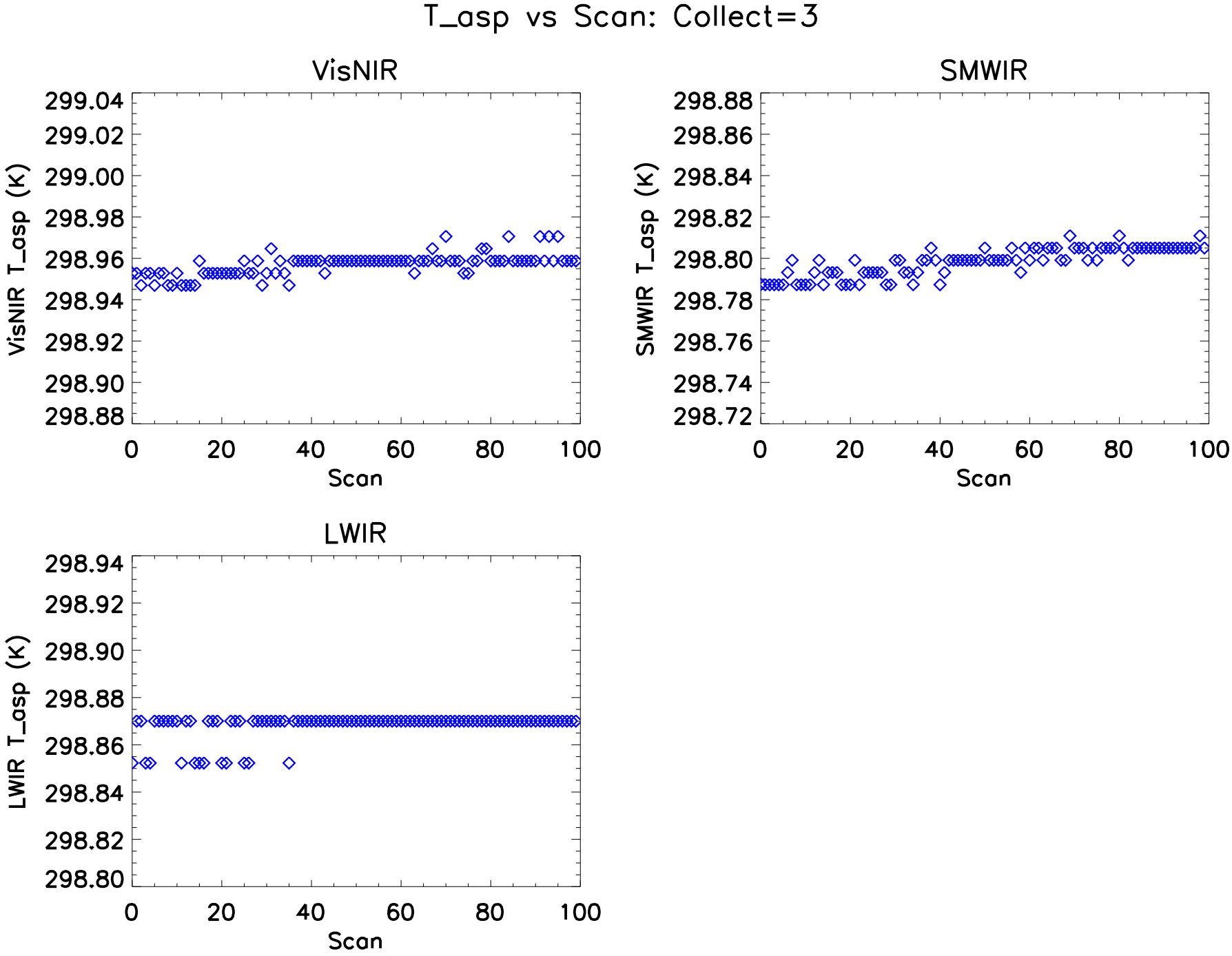

Collect=1
LWIR T_osp (K)
296.6
296.5
296.4
296.3
296.2
0
20
40
60
80
100
Scan
Collect=2
LWIR T_osp (K)
298.50
298.45
298.40
298.35
0
20
40
60
80
100
Scan
Collect=3
LWIR T_osp (K)
298.94
298.92
298.90
298.88
298.86
298.84
298.82
298.80
0
20
40
60
80
100
Scan
Collect=4
LWIR T_osp (K)
299.12
299.10
299.08
299.06
299.04
299.02
299.00
0
20
40
60
80
100
Scan
Collect=5
LWIR T_osp (K)
299.26
299.24
299.22
299.20
299.18
299.16
299.14
299.12
0
20
40
60
80
100
Scan
Collect=6
LWIR T_osp (K)
299.34
299.32
299.30
299.28
299.26
299.24
299.22
299.20
0
20
40
60
80
100
Scan
Collect=7
LWIR T_osp (K)
299.36
299.34
299.32
299.30
299.28
299.26
299.24
299.22
0
20
40
60
80
100
Scan
Collect=8
LWIR T_osp (K)
299.36
299.34
299.32
299.30
299.28
299.26
299.24
0
20
40
60
80
100
Scan
Collect=9
LWIR T_osp (K)
299.36
299.34
299.32
299.30
299.28
299.26
299.24
0
20
40
60
80
100
Scan

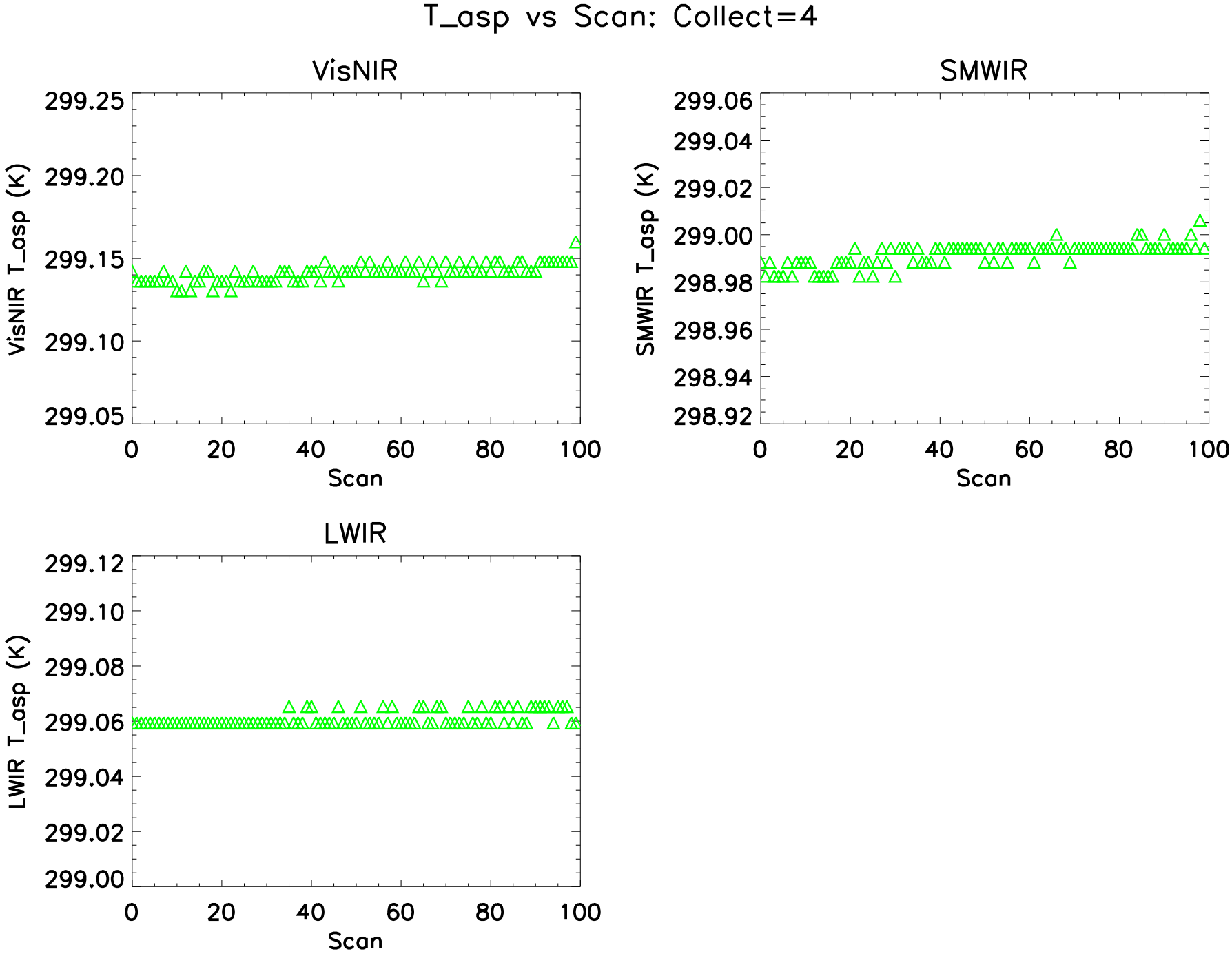
LWIR T_asp vs Scan

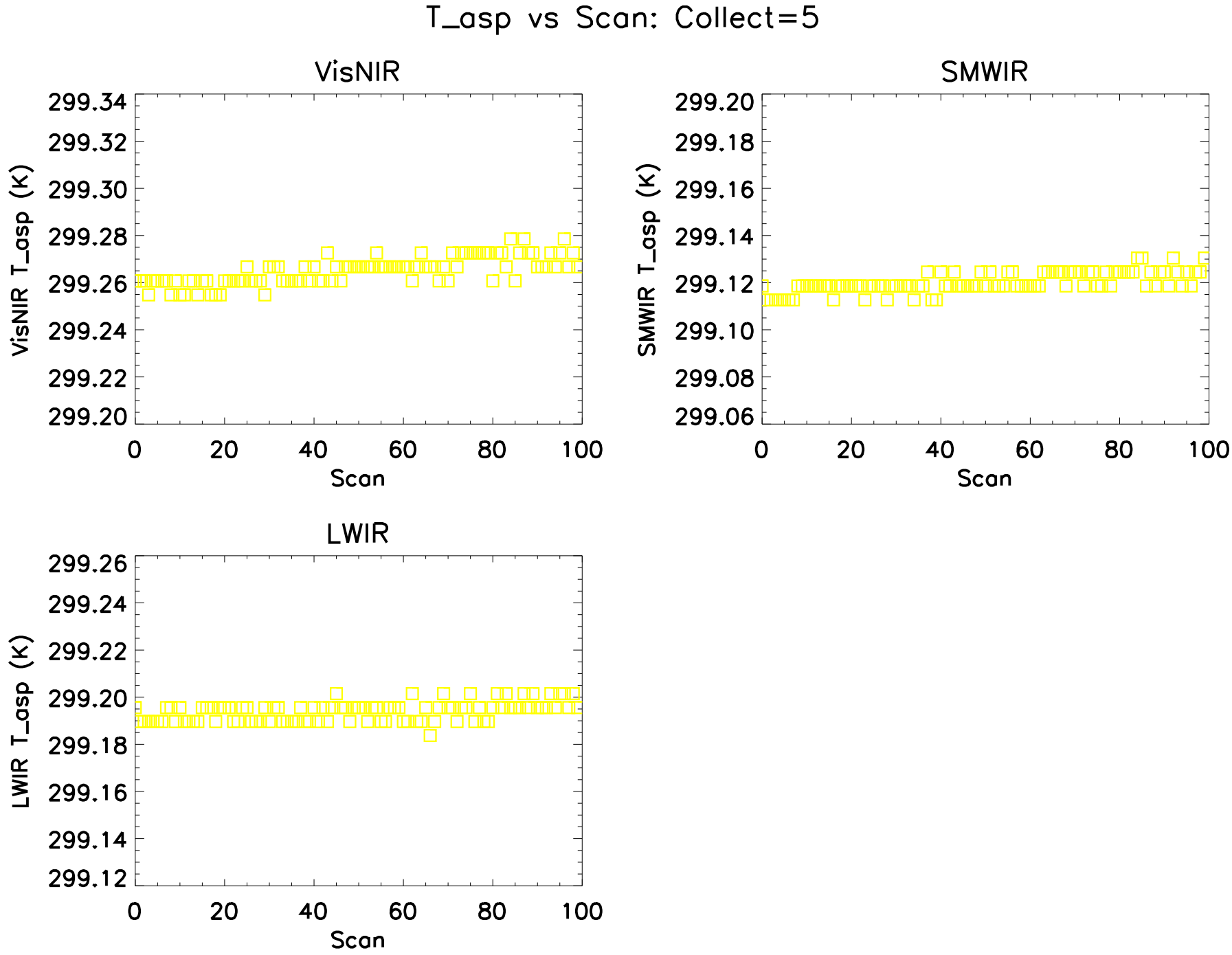


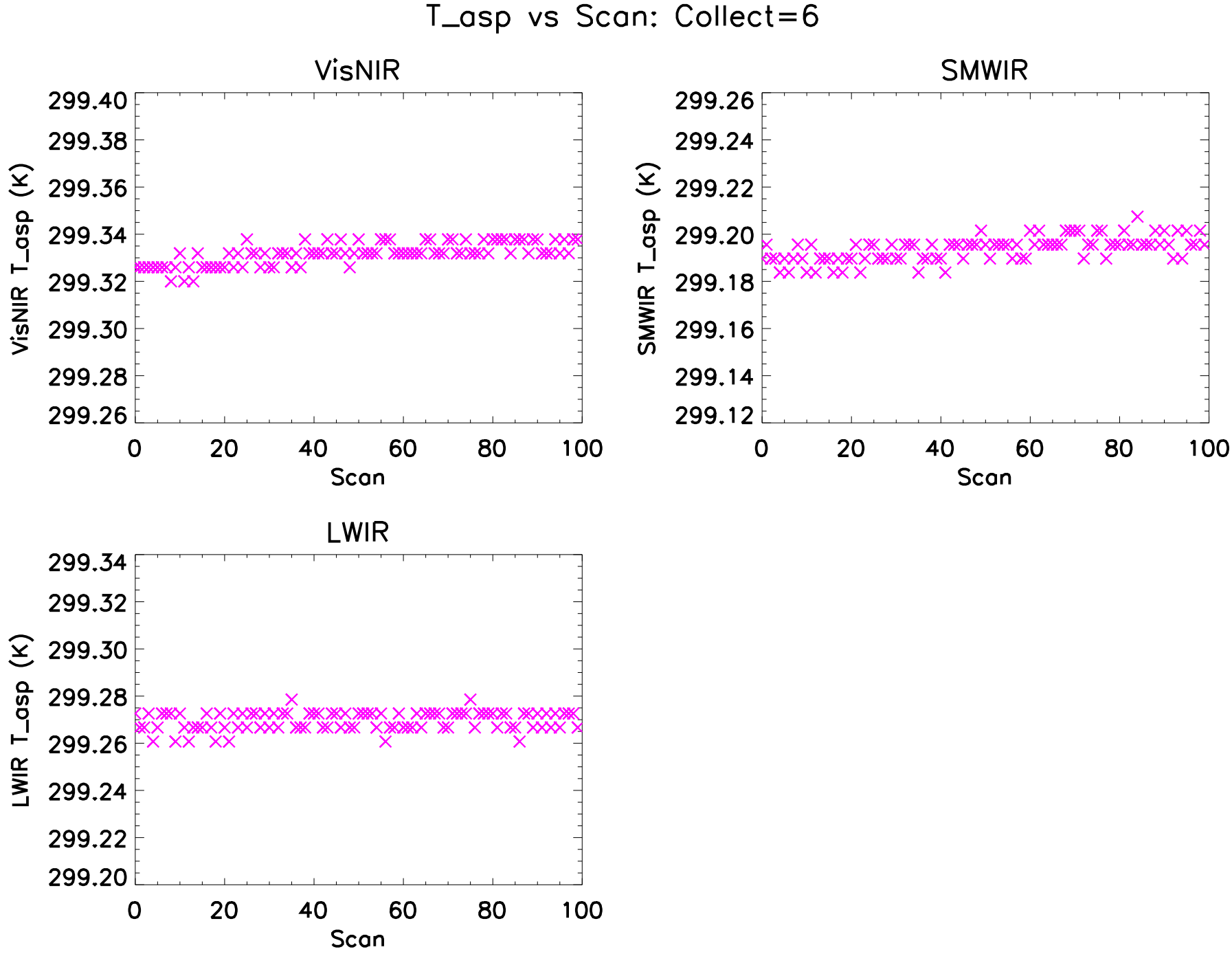

T_asp vs Scan: Collect=1
VisNIR
VisNIR T_asp (K)
297.10
297.05
297.00
296.95
296.90
296.85
296.80
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
296.85
296.80
296.75
296.70
296.65
296.60
296.55
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
296.6
296.5
296.4
296.3
296.2
0
20
40
60
80
100
Scan

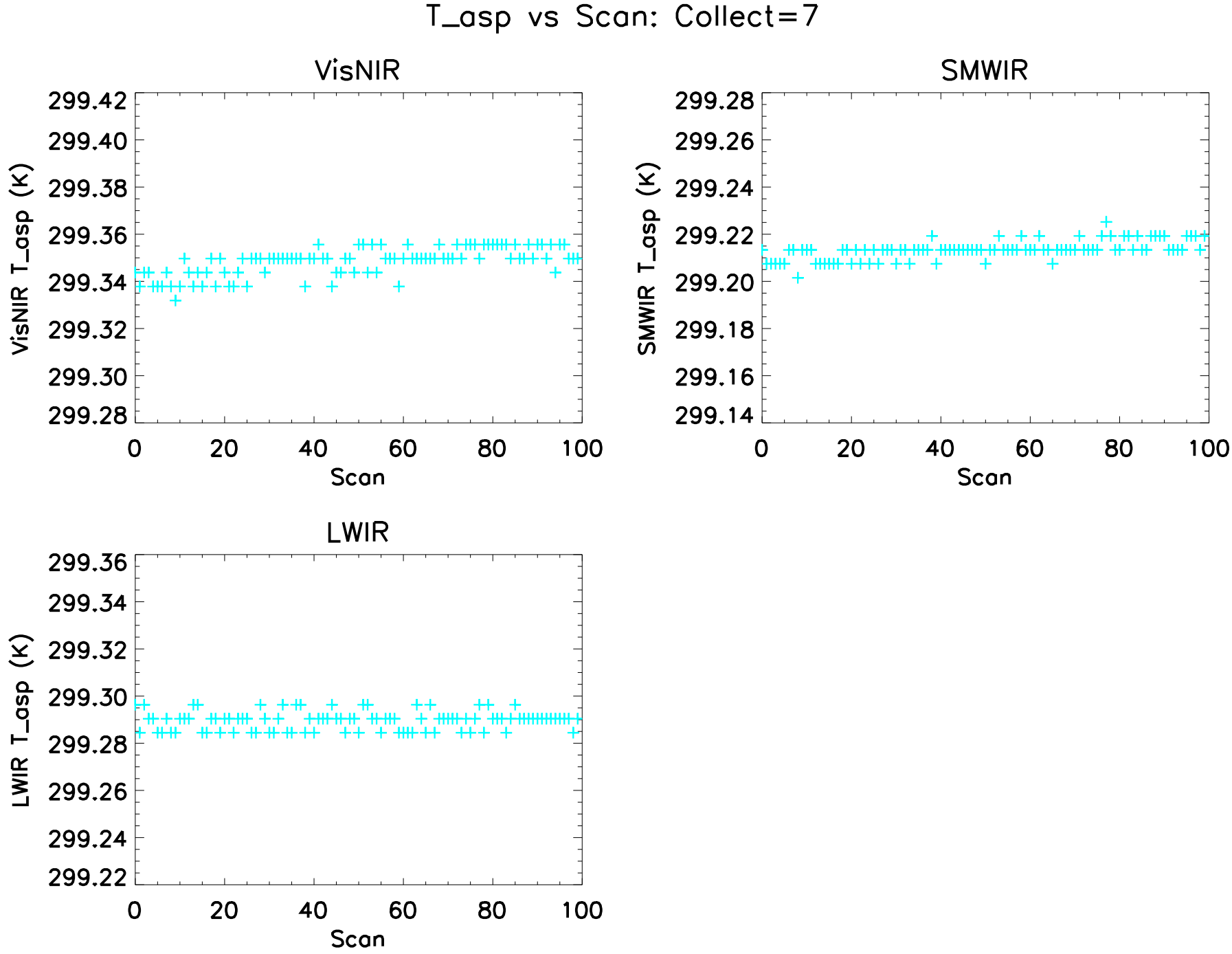

T_asp vs Scan: Collect=2
VisNIR
VisNIR T_asp (K)
298.65
298.60
298.55
298.50
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
298.50
298.45
298.40
298.35
298.30
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
298.50
298.45
298.40
298.35
0
20
40
60
80
100
Scan

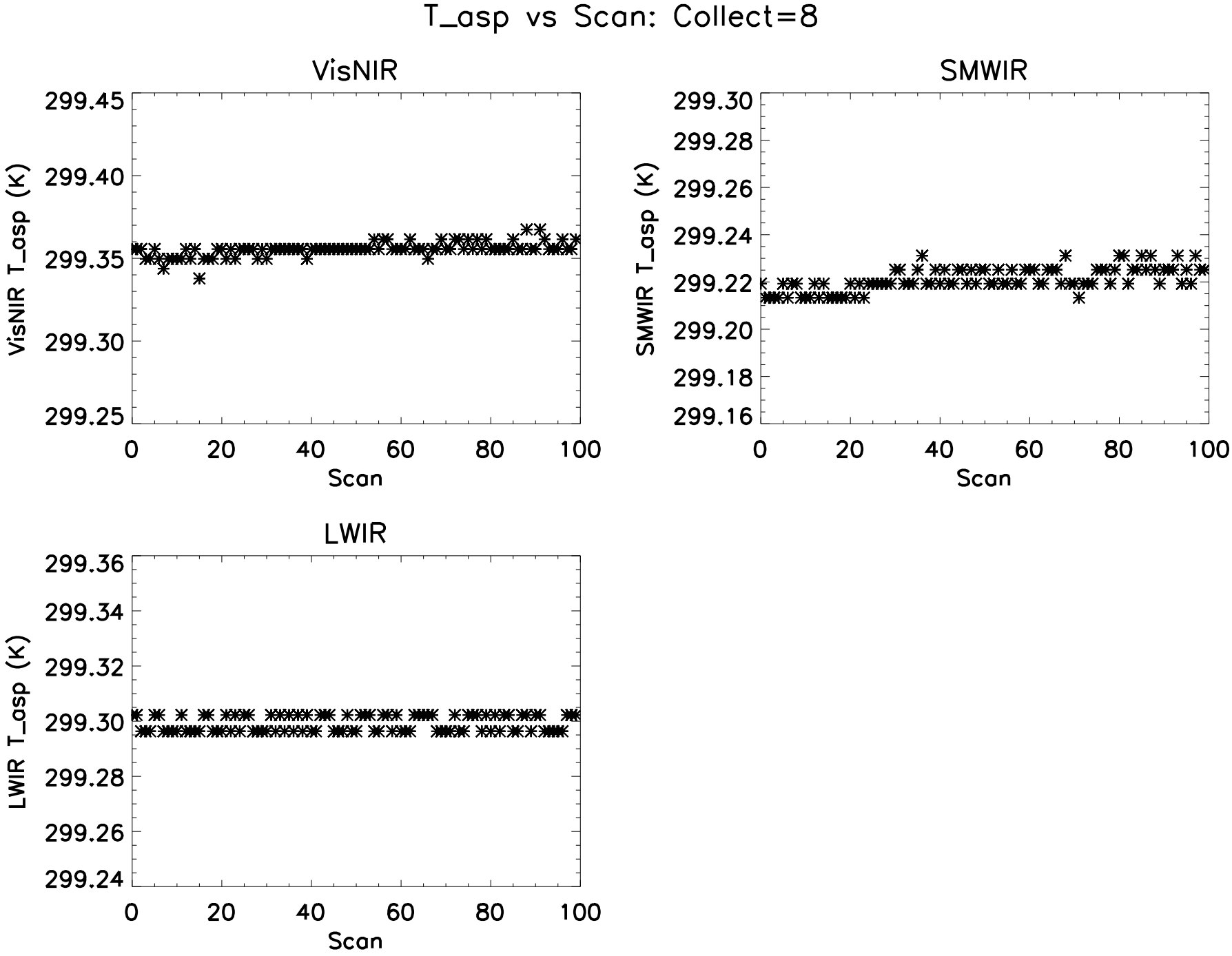

T_asp vs Scan: Collect=3
VisNIR
VisNIR T_asp (K)
299.04
299.02
299.00
298.98
298.96
298.94
298.92
298.90
298.88
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
298.88
298.86
298.84
298.82
298.80
298.78
298.76
298.74
298.72
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
298.94
298.92
298.90
298.88
298.86
298.84
298.82
298.80
0
20
40
60
80
100
Scan

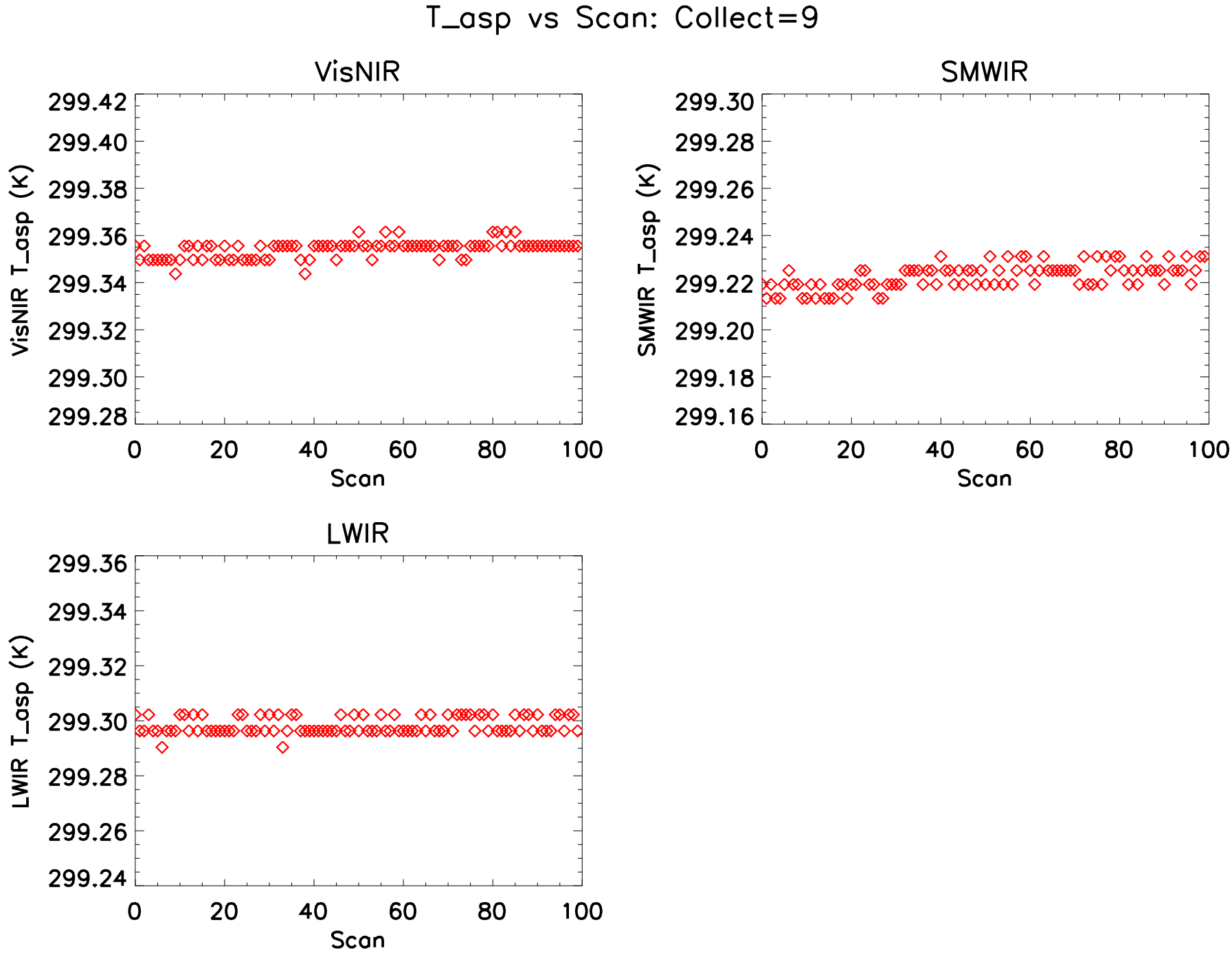

T_asp vs Scan: Collect=4
VisNIR
VisNIR T_asp (K)
299.25
299.20
299.15
299.10
299.05
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
299.06
299.04
299.02
299.00
298.98
298.96
298.94
298.92
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.12
299.10
299.08
299.06
299.04
299.02
299.00
0
20
40
60
80
100
Scan

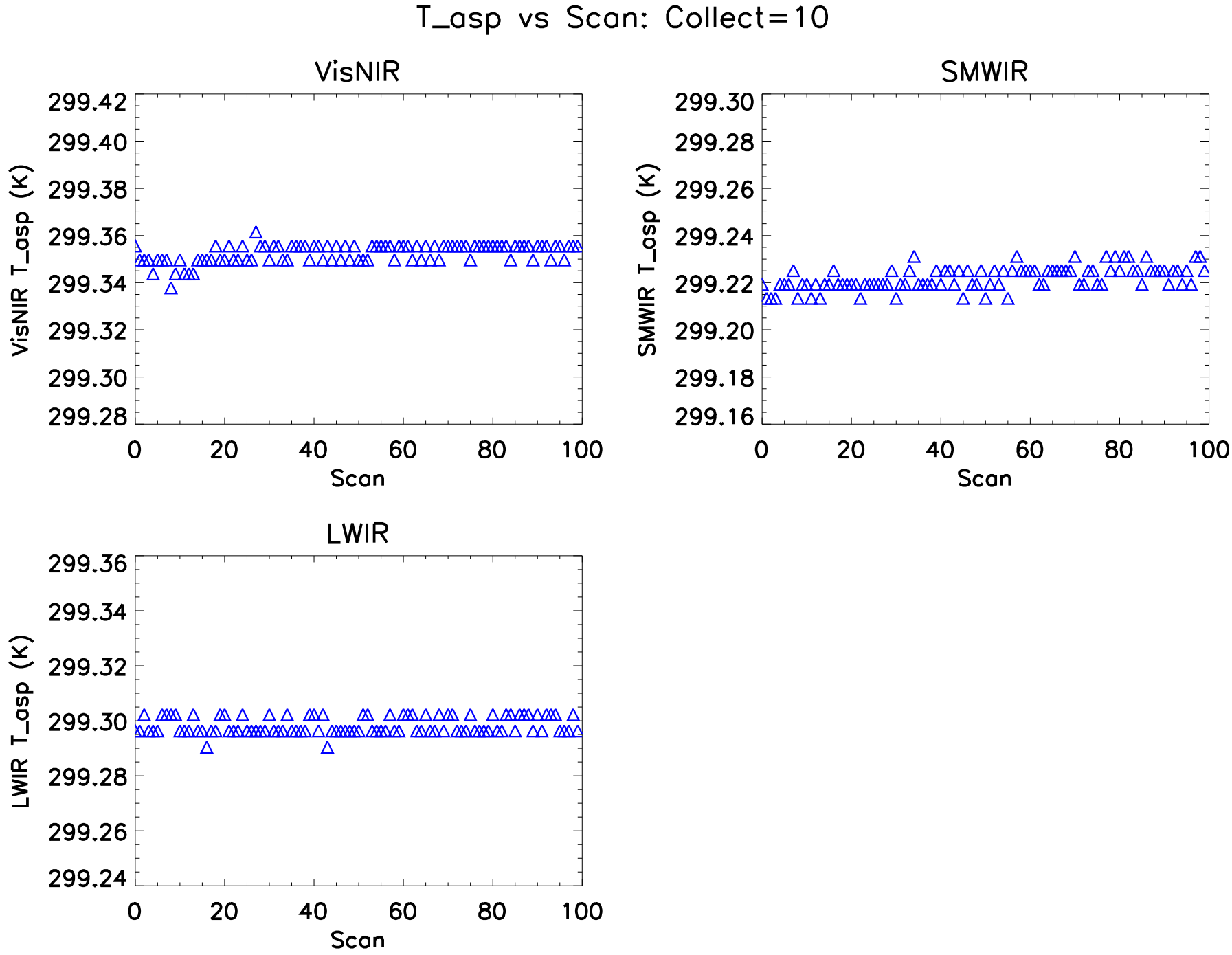

T_asp vs Scan: Collect=5
VisNIR
VisNIR T_asp (K)
299.34
299.32
299.30
299.28
299.26
299.24
299.22
299.20
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
299.20
299.18
299.16
299.14
299.12
299.10
299.08
299.06
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.26
299.24
299.22
299.20
299.18
299.16
299.14
299.12
0
20
40
60
80
100
Scan

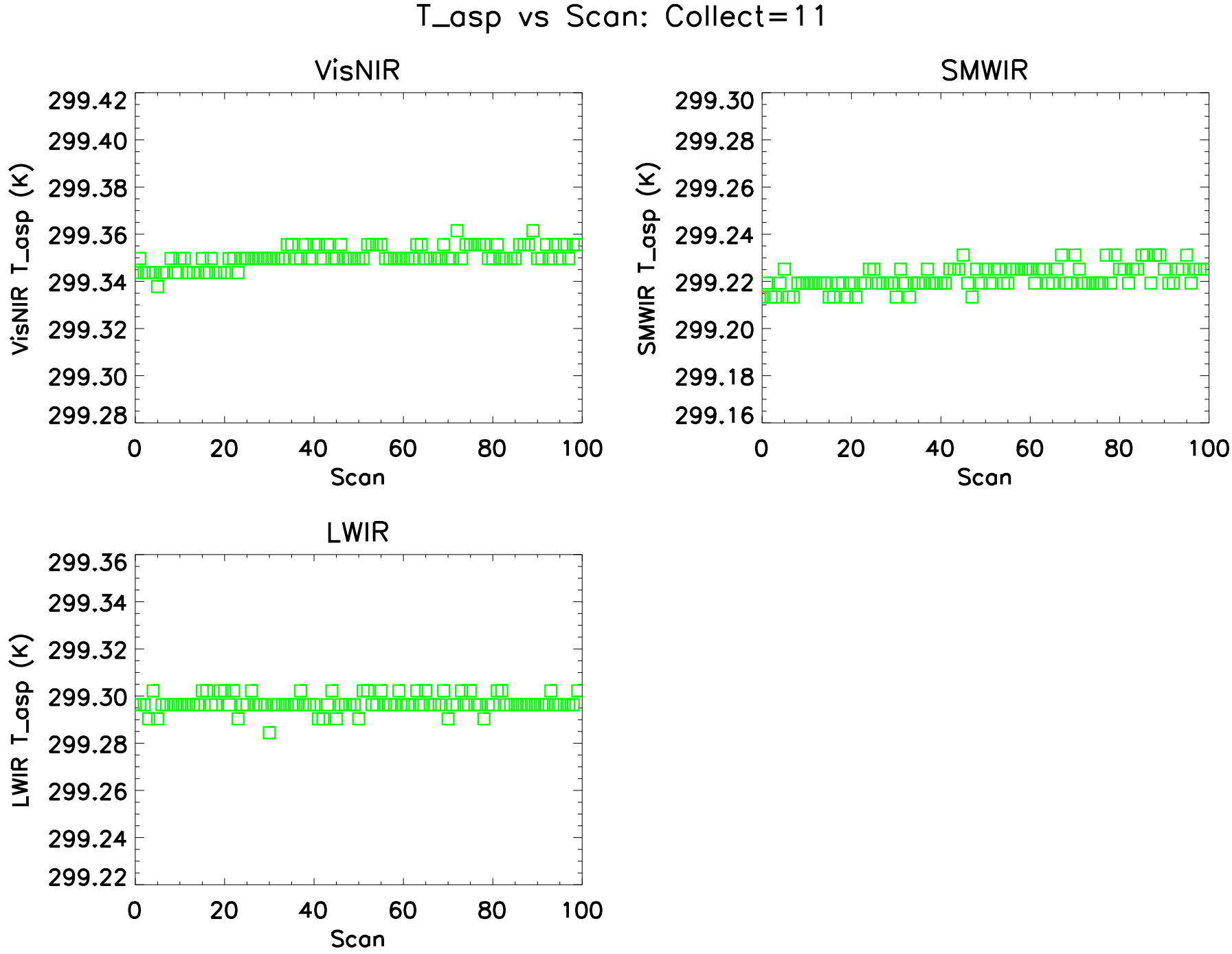

T_asp vs Scan: Collect=6
VisNIR
VisNIR T_asp (K)
299.40
299.38
299.36
299.34
299.32
299.30
299.28
299.26
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
299.26
299.24
299.22
299.20
299.18
299.16
299.14
299.12
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.34
299.32
299.30
299.28
299.26
299.24
299.22
299.20
0
20
40
60
80
100
Scan

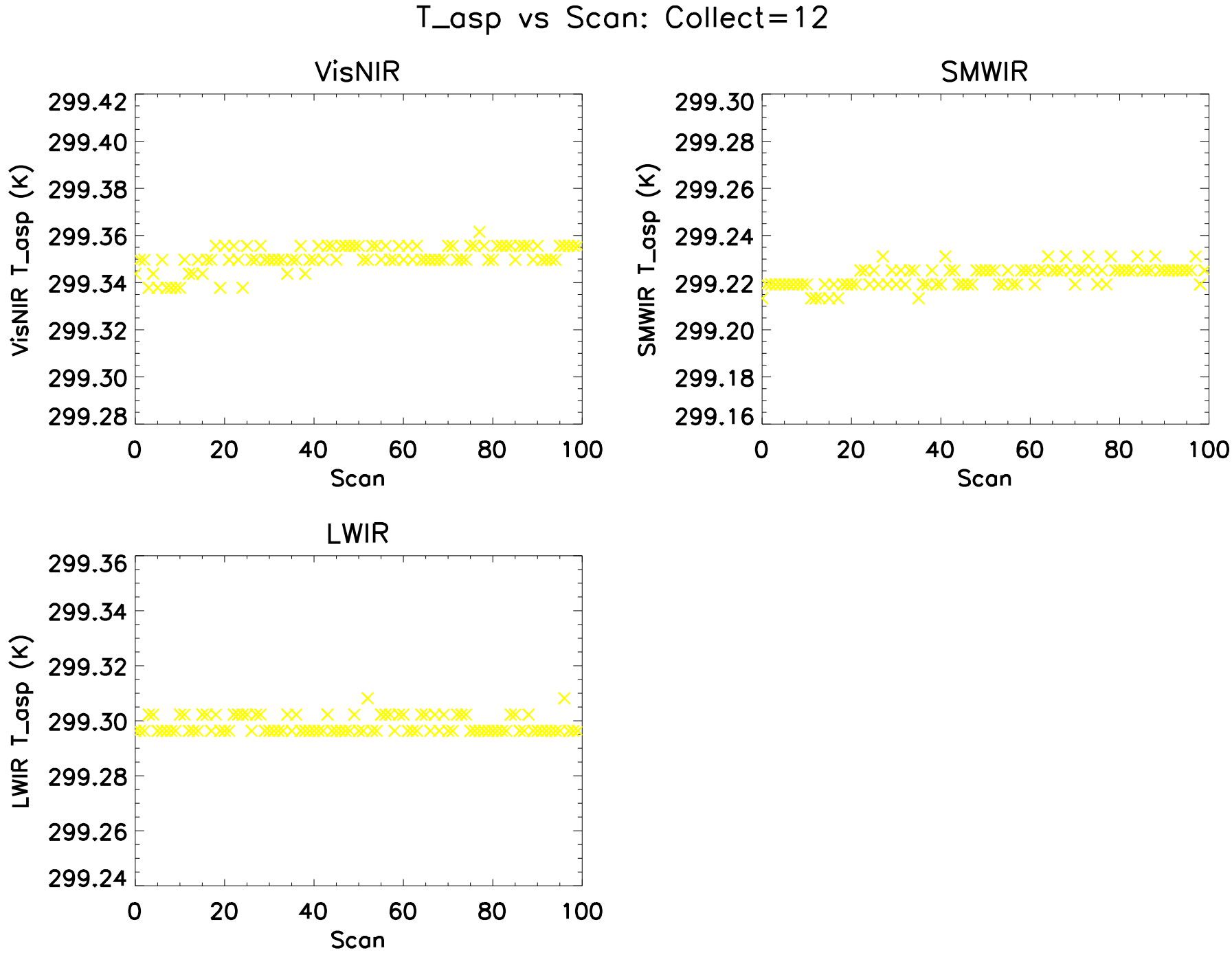

T_asp vs Scan: Collect=7
VisNIR
VisNIR T_asp (K)
299.42
299.40
299.38
299.36
299.34
299.32
299.30
299.28
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
299.28
299.26
299.24
299.22
299.20
299.18
299.16
299.14
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.36
299.34
299.32
299.30
299.28
299.26
299.24
299.22
0
20
40
60
80
100
Scan

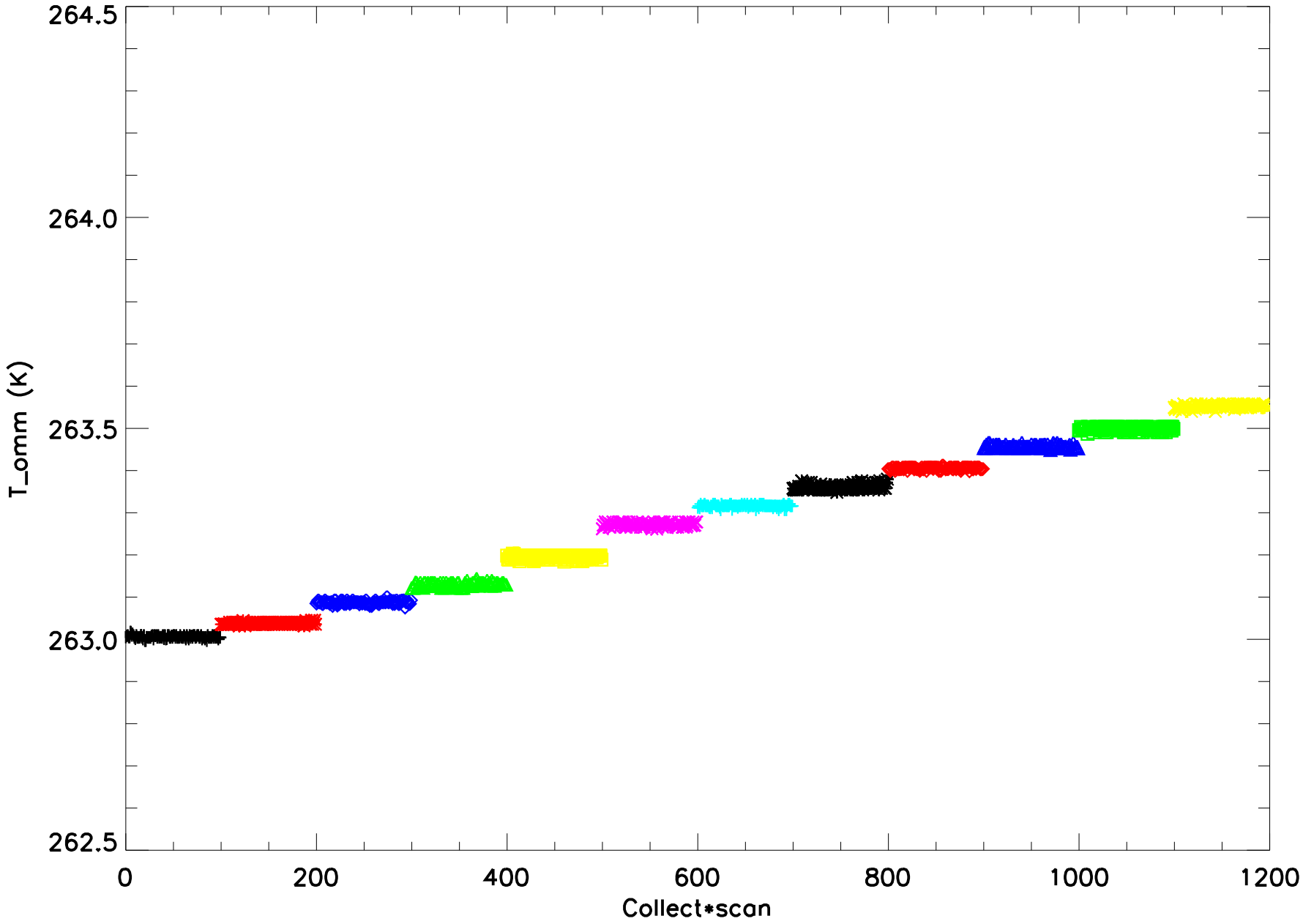

T_asp vs Scan: Collect=8
VisNIR
VisNIR T_asp (K)
299.45
299.40
299.35
299.30
299.25
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
299.30
299.28
299.26
299.24
299.22
299.20
299.18
299.16
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.36
299.34
299.32
299.30
299.28
299.26
299.24
0
20
40
60
80
100
Scan

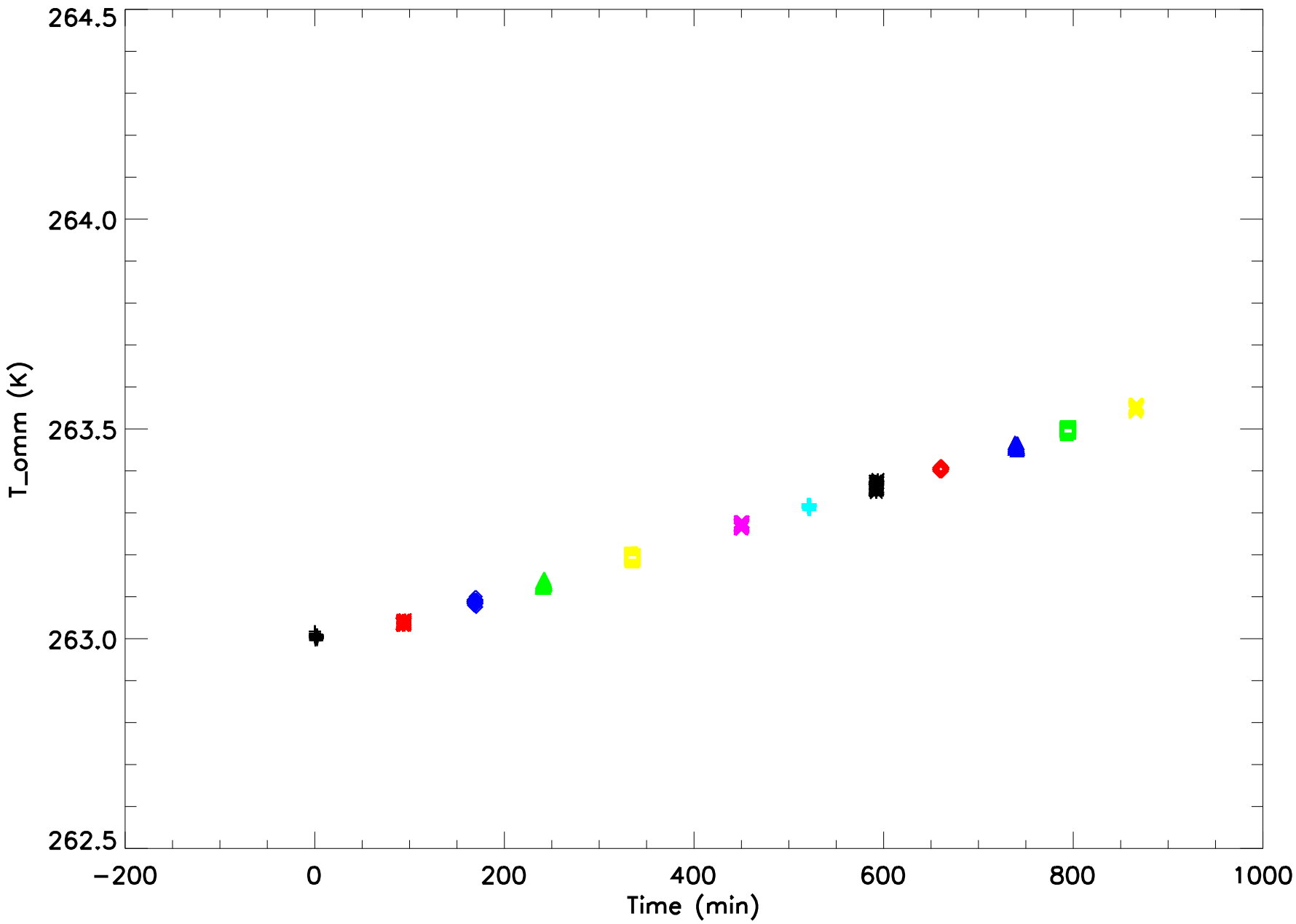

T_asp vs Scan: Collect=9
VisNIR
VisNIR T_asp (K)
299.42
299.40
299.38
299.36
299.34
299.32
299.30
299.28
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
299.30
299.28
299.26
299.24
299.22
299.20
299.18
299.16
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.36
299.34
299.32
299.30
299.28
299.26
299.24
0
20
40
60
80
100
Scan


T_asp vs Scan: Collect=10
VisNIR
VisNIR T_asp (K)
299.42
299.40
299.38
299.36
299.34
299.32
299.30
299.28
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
299.30
299.28
299.26
299.24
299.22
299.20
299.18
299.16
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.36
299.34
299.32
299.30
299.28
299.26
299.24
0
20
40
60
80
100
Scan

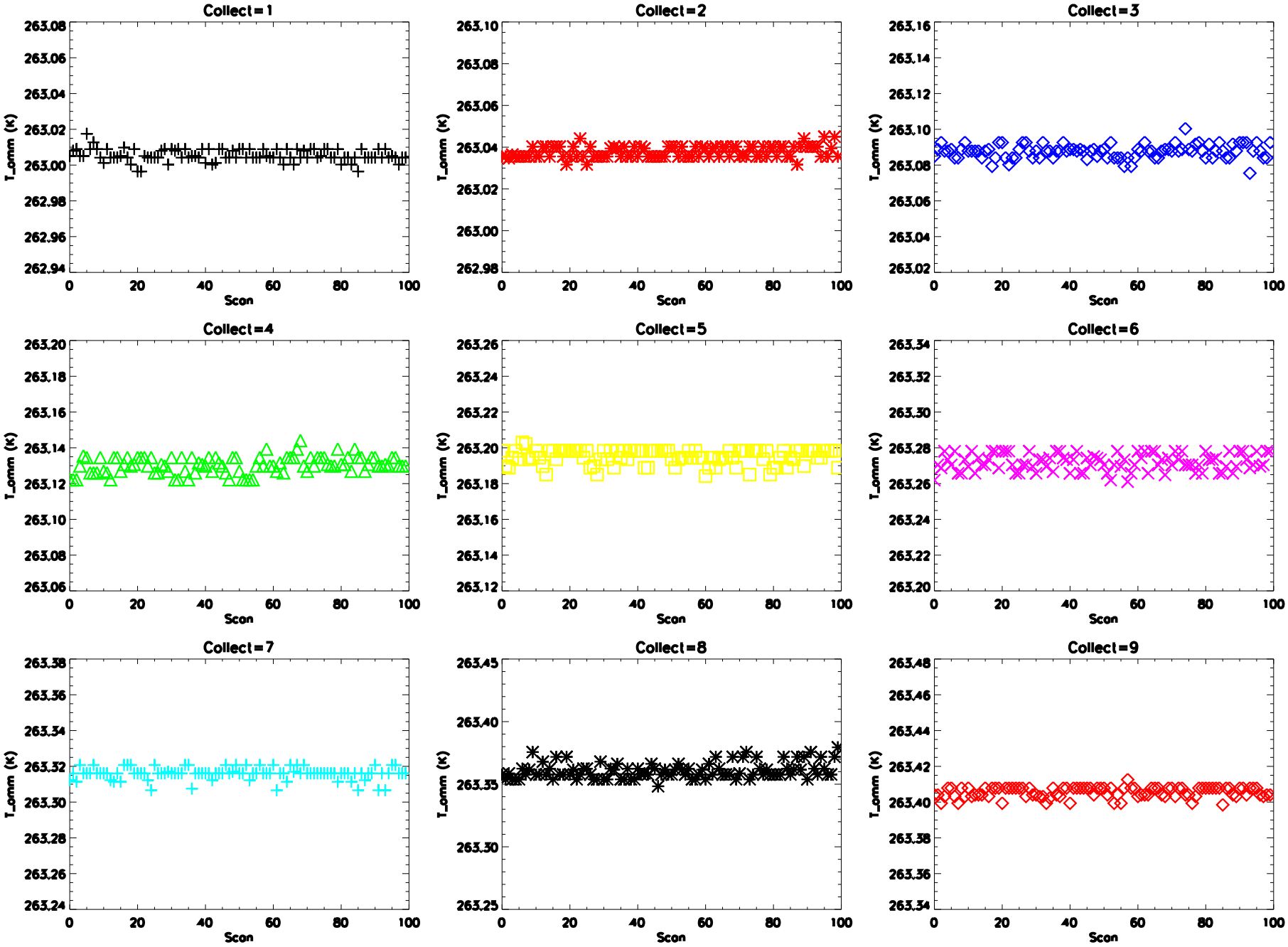

T_asp vs Scan: Collect=11
VisNIR
VisNIR T_asp (K)
299.42
299.40
299.38
299.36
299.34
299.32
299.30
299.28
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
299.30
299.28
299.26
299.24
299.22
299.20
299.18
299.16
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.36
299.34
299.32
299.30
299.28
299.26
299.24
299.22
0
20
40
60
80
100
Scan


T_asp vs Scan: Collect=12
VisNIR
VisNIR T_asp (K)
299.42
299.40
299.38
299.36
299.34
299.32
299.30
299.28
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
299.30
299.28
299.26
299.24
299.22
299.20
299.18
299.16
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.36
299.34
299.32
299.30
299.28
299.26
299.24
0
20
40
60
80
100
Scan

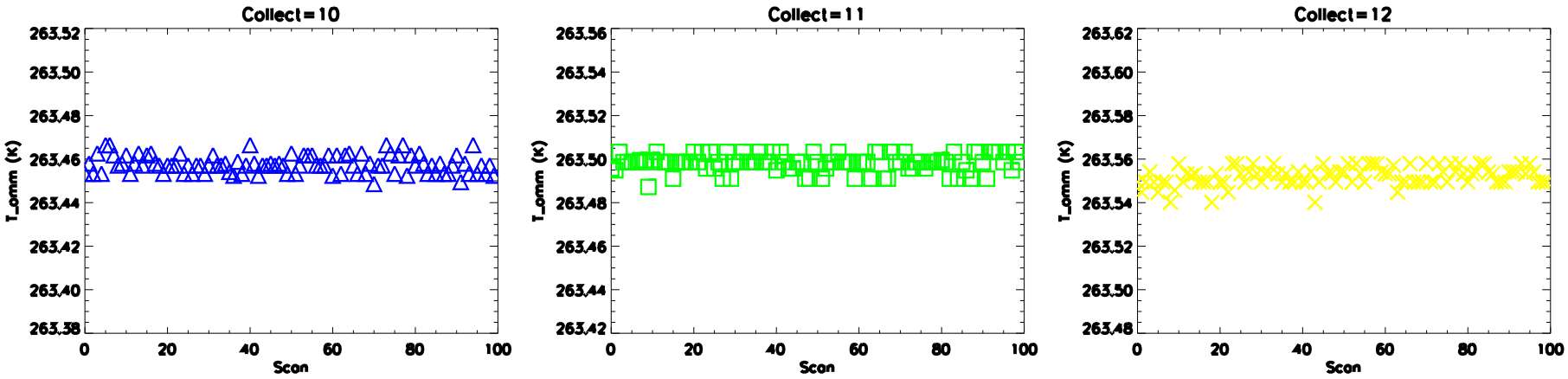

T_omm vs Scan and Collect
264.5
264.0
263.5
263.0
262.5
T_omm (K)
0
200
400
600
800
1000
1200
Collect*scan


T_omm vs Time
264.5
264.0
263.5
263.0
262.5
T_omm (K)
−200
0
200
400
600
800
1000
Time (min)

T_omm vs Scan


Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_omm (K)
Scan

T_omm vs Scan


Collect = 10
Collect = 11
Collect = 12
T_omm (K)
Scan
263.52
263.50
263.48
263.46
263.44
263.42
263.40
263.38
263.56
263.54
263.52
263.50
263.48
263.46
263.44
263.42
263.62
263.60
263.58
263.56
263.54
263.52
263.50
263.48
0
20
40
60
80
100