Infrared thermal images showing tool tip temperature during turning Al 7075/25 wt.% SiC\textsubscript{p} (6.18 \textmu m) MMC in dry machining environment for (a) run 1; (b) run 2; (c) run 3; (d) run 4; (e) run 5; (f) run 6; (g) run 7; (h) run 8; (i) run 9; (j) run 10; (k) run 11; (l) run 12; (m) run 13; (n) run 14; (o) run 15; and (p) run 16
Infrared thermal images showing tool tip temperature during turning Al 7075/25 wt.% SiC_p (6.18 µm) MMC in SIC machining environment for (a) run 1; (b) run 2; (c) run 3; (d) run 4; (e) run 5; (f) run 6; (g) run 7; (h) run 8; (i) run 9; (j) run 10; (k) run 11; (l) run 12; (m) run 13; (n) run 14; (o) run 15; and (p) run 16
APPENDIX III

Images of worn cutting edges during turning Al 7075/25 wt.% SiC<sub>p</sub> (6.18 µm) MMC in dry machining environment for (a) run 1; (b) run 2; (c) run 3; (d) run 4; (e) run 5; (f) run 6; (g) run 7; (h) run 8; (i) run 9; (j) run 10; (k) run 11; (l) run 12; (m) run 13; (n) run 14; (o) run 15; and (p) run 16
Images of worn cutting edges during turning Al 7075/25 wt.% SiC<sub>p</sub> (6.18 µm) MMC in SIC machining environment for (a) run 1; (b) run 2; (c) run 3; (d) run 4; (e) run 5; (f) run 6; (g) run 7; (h) run 8; (i) run 9; (j) run 10; (k) run 11; (l) run 12; (m) run 13; (n) run 14; (o) run 15; and (p) run 16.
APPENDIX V

(a) (b)  

(c) (d)  

(e) (f)  

(g) (h)
Chip forms during turning Al 7075/25 wt.% SiC$_p$ (6.18 µm) MMC in dry environment for (a) run 1; (b) run 2; (c) run 3; (d) run 4; (e) run 5; (f) run 6; (g) run 7; (h) run 8; (i) run 9; (j) run 10; (k) run 11; (l) run 12; (m) run 13; (n) run 14; (o) run 15; and (p) run 16
APPENDIX VI

(a)                                      (b)

(c)                                               (d)

(e)                                                 (f)
Chip forms during turning Al 7075/25 wt.% SiC <sub>p</sub> (6.18 µm) MMC in SIC environment for (a) run 1; (b) run 2; (c) run 3; (d) run 4; (e) run 5; (f) run 6; (g) run 7; (h) run 8; (i) run 9; (j) run 10; (k) run 11; (l) run 12; (m) run 13; (n) run 14; (o) run 15; and (p) run 16