



4603 Compass Point Road
Belcamp, MD 21017

Preliminary Data

BALLISTIC RESISTANCE TEST											
Element U.S. Space & Defense-Belcamp 4603B Compass Point Road Belcamp, MD 21017								Client: Delta Defense Technology Inc Project No.: PH00011409 Test Date: 05/09/2024 Page 1 of 1			
Test Panel		Description: Ballistic helmet with pads and retention system. Model: DDT-BHAM.									
Manufacturer: Delta Defense Technology Inc						Sample No.: (9mm, V0) Sample 1					
Size: Large Avg. Thickness: 0.317 in Thicknesses: 0.318 in, 0.319 in, 0.315 in, 0.314 in				Weight: 3.050 lbs Plies/Laminates: N/A				Date Received: 05/06/2024 Received Via: UPS Ground Returned Via: UPS Ground			
Setup											
Shot Spacing: NIJ-STD-0106.01 Witness Panel: 0.02 in 2024-T3 Al Backing Material: NIJ-0106.01 Head form Condition: Ambient				Primary Vel. Screens (ft): 6.500, 9.500 Primary Vel. Location (ft): 8.000 Range to Target (ft): 16.400 Target to Witness (in): 3.000				Range No.: Range 4 Temp: 67.7 °F BP: 30 inHg RH: 48 % Barrel/Gun: WC067203 Gunner: Jacob Arisman Recorder: Joshua Petty			
Ammunition											
Projectile				Lot No.		Manufacturer			Powder		
(1) 9-mm, 124-grain FMJ				23558		Remington			Accurate No. 2		
Applicable Standards or Procedures											
(1) NIJ-STD-0106.01 (Modified) (2) Customer Request											
Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel.2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	5.8	125.4	2069	1450	2070	1449	1450	None	0	(a)
2	1	5.8	125.5	2111	1421	2108	1423	1422	None	0	(b)
3	1	5.8	125.6	2093	1433	2091	1435	1434	None	0	(c)
4	1	5.8	125.7	2111	1421	2111	1421	1421	None	0	(d)
Remarks: Required Velocity: 1350-1450 ft/s. Projectile yaw check: 0° yaw on all impacts.											
Footnotes: (a) Front (b) Back (c) Right (d) Left											

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Element U.S. Space & Defense-Belcamp 4603B Compass Point Road Belcamp, MD 21017								Client: Delta Defense Technology Inc Project No.: PH00011409 Test Date: 05/09/2024 Page 1 of 1			
Test Panel		Description: Ballistic helmet with pads and retention system. Model: DDT-BHAM.									
Manufacturer: Delta Defense Technology Inc						Sample No.: (9mm, V0, Wet) Sample 2					
Size: Large Avg. Thickness: 0.312 in Thicknesses: 0.314 in, 0.311 in, 0.312 in, 0.309 in				Weight: 3.030 lbs Plies/Laminates: N/A				Date Received: 05/06/2024 Received Via: UPS Ground Returned Via: UPS Ground			
Setup											
Shot Spacing: NIJ-STD-0106.01 Witness Panel: 0.02 in 2024-T3 Al Backing Material: NIJ-0106.01 Head form Condition: Wet per NIJ-STD-0106.01				Primary Vel. Screens (ft): 6.500, 9.500 Primary Vel. Location (ft): 8.000 Range to Target (ft): 16.400 Target to Witness (in): 3.000				Range No.: Range 4 Temp: 67.5 °F BP: 30 inHg RH: 48 % Barrel/Gun: WC067203 Gunner: Jacob Arisman Recorder: Joshua Petty			
Ammunition											
Projectile				Lot No.		Manufacturer			Powder		
(1) 9-mm, 124-grain FMJ				23558		Remington			Accurate No. 2		
Applicable Standards or Procedures											
(1) NIJ-STD-0106.01 (Modified) (2) Customer Request											
Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel.2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	5.8	125	2103	1427	2101	1428	1427	None	0	(a)
2	1	5.8	125	2133	1406	2133	1406	1406	None	0	(b)
3	1	5.8	125.2	2093	1433	2093	1433	1433	None	0	(c)
4	1	5.8	125.2	2113	1420	2113	1420	1420	None	0	(d)
Remarks: Required Velocity: 1350-1450 ft/s. Projectile yaw check: 0° yaw on all impacts.											
Footnotes: (a) Front (b) Back (c) Right (d) Left											

BALLISTIC RESISTANCE TEST											
Element U.S. Space & Defense-Belcamp 4603B Compass Point Road Belcamp, MD 21017								Client: Delta Defense Technology Inc Project No.: PH00011409 Test Date: 05/09/2024 Page 1 of 1			
Test Panel		Description: Ballistic helmet with pads and retention system. Model: DDT-BHAM.									
Manufacturer: Delta Defense Technology Inc						Sample No.: (.44 Mag, V0) Sample 3					
Size: Large Avg. Thickness: 0.317 in Thicknesses: 0.318 in, 0.320 in, 0.314 in, 0.314 in				Weight: 3.010 lbs Plies/Laminates: N/A				Date Received: 05/06/2024 Received Via: UPS Ground Returned Via: UPS Ground			
Setup											
Shot Spacing: NIJ-STD-0106.01 Witness Panel: 0.02 in 2024-T3 Al Backing Material: NIJ-0106.01 Head form Condition: Ambient				Primary Vel. Screens (ft): 6.500, 9.500 Primary Vel. Location (ft): 8.000 Range to Target (ft): 16.400 Target to Witness (in): 3.000				Range No.: Range 4 Temp: 66.4 °F BP: 30 inHg RH: 46 % Barrel/Gun: WC060420 Gunner: Jacob Arisman Recorder: Joshua Petty			
Ammunition											
Projectile				Lot No.		Manufacturer			Powder		
(1) .44 Mag., 240-grain SWCGC				NA		Remington			3 N 38		
Applicable Standards or Procedures											
(1) NIJ-STD-0106.01 (Modified) (2) Customer Request											
Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel.2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	13.0	239.8	2142	1401	2140	1402	1401	None	0	(a)
2	1	13.0	239.8	2057	1458	2054	1461	1459	None	0	(b)
3	1	13.0	239.8	2052	1462	2054	1461	1461	None	0	(c)
4	1	12.8	239.8	2120	1415	2120	1415	1415	None	0	(d)
Remarks: Required Velocity: 1350-1450 ft/s. Projectile yaw check: 0° yaw on all impacts.											
Footnotes: (a) Front (b) Back (c) Right (d) Left											

BALLISTIC RESISTANCE TEST											
Element U.S. Space & Defense-Belcamp 4603B Compass Point Road Belcamp, MD 21017								Client: Delta Defense Technology Inc Project No.: PH00011409 Test Date: 05/09/2024 Page 1 of 1			
Test Panel		Description: Ballistic helmet with pads and retention system. Model: DDT-BHAM.									
Manufacturer: Delta Defense Technology Inc						Sample No.: (.44 Mag, V0, Wet) Sample 4					
Size: Large Avg. Thickness: 0.317 in Thicknesses: 0.320 in, 0.319 in, 0.313 in, 0.314 in				Weight: 3.060 lbs Plies/Laminates: N/A				Date Received: 05/06/2024 Received Via: UPS Ground Returned Via: UPS Ground			
Setup											
Shot Spacing: NIJ-STD-0106.01 Witness Panel: 0.02 in 2024-T3 Al Backing Material: NIJ-0106.01 Head form Condition: Wet per NIJ-STD-0106.01				Primary Vel. Screens (ft): 6.500, 9.500 Primary Vel. Location (ft): 8.000 Range to Target (ft): 16.400 Target to Witness (in): 3.000				Range No.: Range 4 Temp: 67.1 °F BP: 30 inHg RH: 44 % Barrel/Gun: WC060420 Gunner: Jacob Arisman Recorder: Joshua Petty			
Ammunition											
Projectile				Lot No.		Manufacturer			Powder		
(1) .44 Mag., 240-grain SWCGC				NA		Remington			3 N 38		
Applicable Standards or Procedures											
(1) NIJ-STD-0106.01 (Modified) (2) Customer Request											
Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel.2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	13.0	239.3	2135	1405	2135	1405	1405	None	0	
2	1	13.0	239.4	2113	1420	2113	1420	1420	None	0	
3	1	13.0	239.5	2115	1418	2115	1418	1418	None	0	
4	1	13.0	239.6	2118	1416	2118	1416	1416	None	0	
Remarks: Required Velocity: 1350-1450 ft/s. Projectile yaw check: 0° yaw on all impacts.											
Footnotes: (a) Front (b) Back (c) Right (d) Left											

PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

Element U.S. Space & Defense

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 Belcamp, MD 21017

Client: Delta Defense Technology Inc

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Test Date: 05/09/2024

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Test Panel Description: Ballistic helmet.

Manufacturer: Delta Defense Technology Inc

Sample No.: (17gr., V50) Sample 5

 Size: Large
 Avg. Thickness: 0.312 in
 Thicknesses: 0.316 in, 0.314 in,
 0.311 in, 0.308 in

 Weight: 2.640 lbs
 Plies/Laminates: N/A
 Required BL(P): N/A

 Date Received: 05/06/2024
 Received Via: UPS Ground
 Returned Via: UPS Ground

Setup

 Shot Spacing: STANAG 2920 Ed 3
 AEP 2920 Edition
 A, Version 2
 Witness Panel: 0.02 in 2024-T3 Al
 Backing Material: N/A
 Condition: Ambient

 Primary Vel. Screens (ft): 5.000, 5.333,
 9.666, 10.000
 Primary Vel. Location (ft): 7.500
 Range to Target (ft): 15.000
 Target to Witness (in): 3.000

 Range No.: Range 4
 Temp: 67.3 °F
 BP: 30 inHg
 RH: 52 %
 Barrel/Gun: CT-2009
 Gunner: Jacob Arisman
 Recorder: Joshua Petty

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .22 cal, 17-grain FSP	17062223	Contra Threat Sciences	Bullseye

Applicable Standards or Procedures

- (1) STANAG 2920 Ed 3 AEP 2920 Edition A, Version 2 dated September 2016
 (2) Customer Request

Shot No.	Ammo	Powder/Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Striking Vel. (ft/s)	Result	Include in V ₅₀	Obliq. (°)	Footnotes
1	1	8.2	17	2191	2282	1901	2279	2281	2183	P	Yes	0	(a)
2	1	9.0	17	2089	2393	1813	2390	2392	2289	C	No	0	(b)
3	1	8.6	17	2101	2380	1820	2381	2380	2279	C	No	0	(c)
4	1	8.2	17	2189	2284	1898	2283	2284	2186	C	No	0	(d)
5	1	8.0	17	2181	2293	1891	2291	2292	2194	C	No	0	(e)
6	1	7.8	17	2247	2225	1947	2225	2225	2130	P	Yes	0	(a)
7	1	8.0	17	2218	2254	1923	2253	2254	2157	C	No	0	(b)
8	1	7.8	17	2279	2194	1974	2195	2194	2101	C	No	0	(c)
9	1	7.6	17	2306	2168	2001	2165	2167	2074	C	Yes	0	(d)
10	1	7.4	17	2308	2166	2001	2165	2166	2073	C	Yes	0	(e)
11	1	7.2	17	2330	2146	2020	2145	2145	2054	C	Yes	0	(a)
12	1	7.0	17	2389	2093	2072	2091	2092	2003	P	No	0	(b)
13	1	7.1	17	2411	2074	2091	2072	2073	1985	P	No	0	(c)
14	1	7.3	17	2308	2166	2001	2165	2166	2073	P	Yes	0	(d)

Remarks:

 Requested Starting Velocity: 2200 ft/s.
 Projectile yaw check: 0° yaw on all shots

V₅₀ Summary:

 No. of Points: 3 and 3
 V₅₀: 2098 ft/s
 High Partial: 2183 ft/s
 Low Complete: 2054 ft/s
 Range of Results (ROR): 129 ft/s
 Range of Mix Results (RMR): 129 ft/s
 Gap: N/A

Footnotes:

- (a) Crown
 (b) Front
 (c) Left
 (d) Back
 (e) Right

PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

Element U.S. Space & Defense

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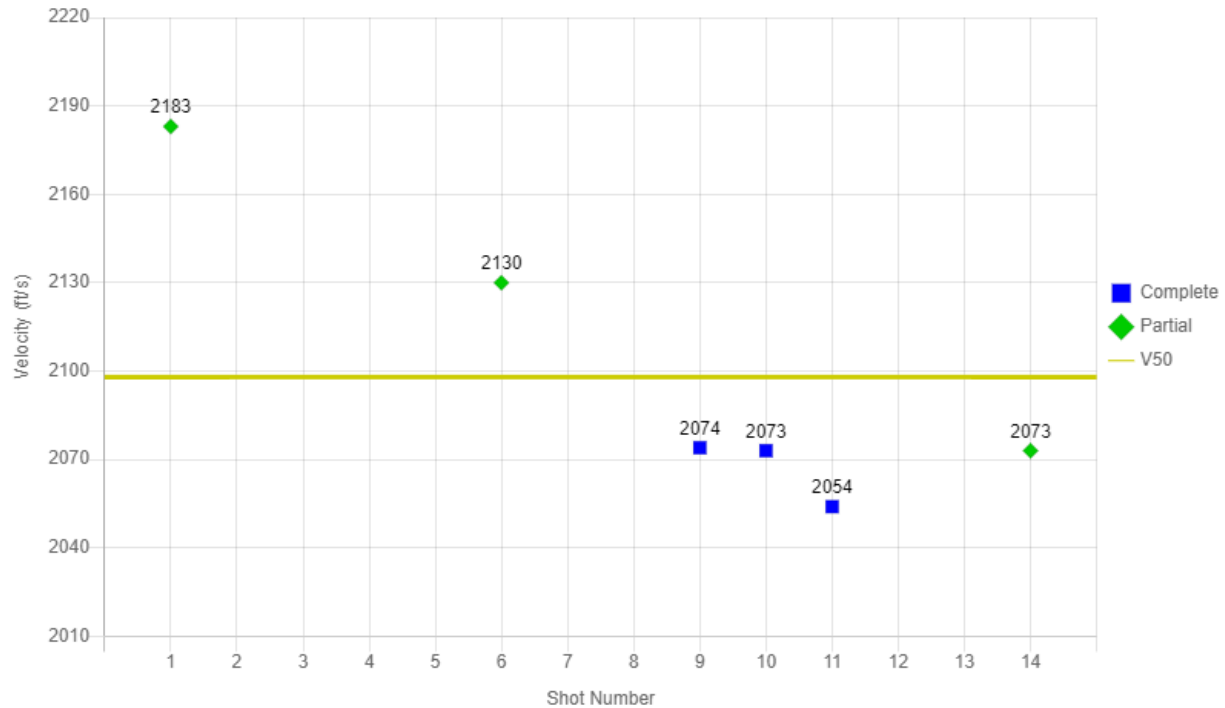
Manufacturer: Delta Defense Technology Inc

Sample No.: (17gr., V50) Sample 5

V₅₀ Summary:

No. of Points: 3 and 3
V₅₀: 2098 ft/s
High Partial: 2183 ft/s
Low Complete: 2054 ft/s
Range of Results (ROR): 129 ft/s
Range of Mix Results (RMR): 129 ft/s
Gap: N/A

Velocity vs. Shot Number



PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)												
Element U.S. Space & Defense 4603B Compass Point Road Belcamp, MD 21017								Client: Delta Defense Technology Inc Project No.: PH00011409 Test Date: 05/09/2024 Page 1 of 2				
Test Panel		Description: Ballistic helmet with pads and retention system. Model: DDT-BHAM.										
Manufacturer: Delta Defense Technology Inc						Sample No.: (.44 Mag, V50) Sample 6						
Size: Large				Weight: 3.070 lbs				Date Received: 05/06/2024				
Avg. Thickness: 0.313 in				Plies/Laminates: N/A				Received Via: UPS Ground				
Thicknesses: 0.314 in, 0.313 in,				Required BL(P): 1450 ft/s				Returned Via: UPS Ground				
0.314 in, 0.312 in												
Setup												
Shot Spacing: NIJ-STD-0106.01				Primary Vel. Screens (ft): 6.500, 9.500				Range No.: Range 4				
Witness Panel: 0.02 in 2024-T3 Al				Primary Vel. Location (ft): 8.000				Temp: 66.8 °F				
Backing Material: NIJ-0106.01 Head form				Range to Target (ft): 16.400				BP: 30 inHg				
Condition: Ambient				Target to Witness (in): 3.000				RH: 47 %				
								Barrel/Gun: WC060420				
								Gunner: Jacob Arisman				
								Recorder: Joshua Petty				
Ammunition												
Projectile				Lot No.		Manufacturer			Powder			
(1) .44 Mag., 240-grain SWCGC				NA		Remington			3 N 38			
Applicable Standards or Procedures												
(1) NIJ-STD-0106.01 (Modified)												
(2) MIL-STD-662F												
(3) Customer Request												
Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel.2 (ft/s)	Avg. Vel. (ft/s)	Result	Include in V ₅₀	Obliq. (°)	Footnotes
1	1	14.0	239.9	1959	1531	1960	1531	1531	P	No	0	(a)
2	1	15.1	239.9	1876	1599	1879	1597	1598	P	No	0	(b)
3	1	16.3	239.9	1786	1680			1680	P	Yes	0	(c,e,f)
4	1	17.5	239.9	1730	1734	1720	1744	1739	C	Yes	0	(d)
Remarks: Requested Starting Velocity: 1550 ft/s. Projectile yaw check: 0° yaw on all impacts.								V₅₀ Summary: No. of Points: 1 and 1 V₅₀: 1710 ft/s High Partial: 1680 ft/s Low Complete: 1739 ft/s Range of Results (ROR): 59 ft/s Range of Mix Results (RMR): N/A Gap: 59 ft/s				
Footnotes: (a) Front (b) Back (c) Right (d) Left (e) No reading on screen 2. (f) Projectile impacted 1.25 in. from intended impact location.												

PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

Element U.S. Space & Defense

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Belcamp, MD 21017

Client: Delta Defense Technology Inc

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Manufacturer: Delta Defense Technology Inc

Sample No.: (.44 Mag, V50) Sample 6

V₅₀ Summary:

No. of Points: 1 and 1
V₅₀: 1710 ft/s
High Partial: 1680 ft/s
Low Complete: 1739 ft/s
Range of Results (ROR): 59 ft/s
Range of Mix Results (RMR): N/A
Gap: 59 ft/s

Velocity vs. Shot Number

