

Dead Air Mask - Walther PPK/S - Federal 36gr - 22 LR

Test Setup	
Suppressor	Dead Air Mask
Host	Walther PPK/S
Ammo	Federal 36gr
Caliber	22 LR
Dry or Wet?	Dry
Location & Weather	
Date	22-May-2022
Location	Range 1
Elevation (Feet ASL)	611
Time	11:00
Wind Low - High	5 10
Temperature F*	74
Humidity %	82%
Pressure In Hg	30.16
Speed of Sound FPS	1133

Meter #1			
Mic Position	Muzzle		
Cal Base	114		
Cal Actual	104	Adds 10 dB	
Cal Offset	10		
Weighting	A		
Octave Filter	None		
ISO Freq band	N/A		
Mic Distance (M)	1.0	Adds 0 dB	
Distance Scaling Factor	0.00		
160 dB Option	Yes		160 Max
Meter dB Range	100-160		100-160
Effective dB Range	110-170		
Meter SN	0190		
Meter Mic Calibrator	L-D 800B	B&K 4938	CA250
Protocol	MIL-STD-1474D		

Meter Settings			
Meter #2			
Mic Position	Left Ear		
Cal Base	114		
Cal Actual	94	Adds 20 dB	
Cal Offset	20		
Weighting	A		
Octave Filter	None		
ISO Freq band	N/A		
Mic Distance (M)	1.0	Adds 0 dB	
Distance Scaling Factor	0.00		
160 dB Option	No		140 Max
Meter dB Range	80-140		80-140
Effective dB Range	100-160		
Meter SN	0220		
Meter Mic Calibrator	L-D 800B	B&K 4938	CA250
Protocol	MIL-STD-1474D		

Meter #3			
Mic Position	Right Ear		
Cal Base	114		
Cal Actual	94	Adds 20 dB	
Cal Offset	20		
Weighting	A		
Octave Filter	None		
ISO Freq band	N/A		
Mic Distance (M)	1.0	Adds 0 dB	
Distance Scaling Factor	0.00		
160 dB Option	No		140 Max
Meter dB Range	80-140		80-140
Effective dB Range	100-160		
Meter SN	0125		
Meter Mic Calibrator	L-D 800B	B&K 4938	CA250
Protocol	MIL-STD-1474D		

Consolidated Results			
Results	Muzzle	Left Ear	Right Ear
Unsuppressed	158.0	152.4	151.9
Suppressed	120.6	119.1	124.8
NSR	37.4	33.2	27.1
FRP (#1 - Avg)	4.7	0.3	1.0
Avg w/o FRP	120.0	119.1	124.7
Min	116.9	117.4	121.1
Max	125.3	121.9	129.0
Std Dev	2.9	1.6	2.1

Calculated Results		
Calculated Results	Avg (Linear)	Avg (Log)
Unsuppressed	158.0	158.0
Suppressed	120.6	121.5
NSR	37.4	36.5
FRP (#1 - Avg)	4.7	3.8
Avg w/o FRP	120.0	120.7
Min	116.9	
Max	125.3	
Std Dev	2.9	

Calculated Results		
Calculated Results	Avg (Linear)	Avg (Log)
Unsuppressed	152.4	152.4
Suppressed	119.1	119.4
NSR	33.2	33.0
FRP (#1 - Avg)	0.3	0.0
Avg w/o FRP	119.1	119.4
Min	117.4	
Max	121.9	
Std Dev	1.6	

Calculated Results		
Calculated Results	Avg (Linear)	Avg (Log)
Unsuppressed	151.9	151.9
Suppressed	124.8	125.3
NSR	27.1	26.6
FRP (#1 - Avg)	1.0	0.5
Avg w/o FRP	124.7	125.2
Min	121.1	
Max	129.0	
Std Dev	2.1	

Unsuppressed	Muzzle	Left Ear	Right Ear
Raw 1	148.0	132.4	132.1
Raw 2	147.9	132.6	132.1
Raw 3	148.1	132.1	131.5
Suppressed	Muzzle	Left Ear	Right Ear
Raw 1	115.3	99.4	105.8
Raw 2	110.8	98.5	103.5
Raw 3	111.9	101.4	109.0
Raw 4	106.9	100.4	105.5
Raw 5	107.3	98.1	104.5
Raw 6	114.8	97.4	103.6
Raw 7	109.5	98.3	106.3
Raw 8	109.6	98.6	105.0
Raw 9	108.3	97.4	104.1
Raw 10	111.3	101.9	101.1

Unsuppressed Raw dB	Actual dB	
1	148.0	
2	147.9	
3	148.1	
Shot	Raw dB	Actual dB
1	115.3	125.3
2	110.8	120.8
3	111.9	121.9
4	106.9	116.9
5	107.3	117.3
6	114.8	124.8
7	109.5	119.5
8	109.6	119.6
9	108.3	118.3
10	111.3	121.3

Unsuppressed Raw dB	Actual dB	
1	132.4	
2	132.6	
3	132.1	
Shot	Raw dB	Actual dB
1	99.4	119.4
2	98.5	118.5
3	101.4	121.4
4	100.4	120.4
5	98.1	118.1
6	97.4	117.4
7	98.3	118.3
8	98.6	118.6
9	97.4	117.4
10	101.9	121.9

Unsuppressed Raw dB	Actual dB	
1	132.1	
2	132.1	
3	131.5	
Shot	Raw dB	Actual dB
1	105.8	125.8
2	103.5	123.5
3	109.0	129.0
4	105.5	125.5
5	104.5	124.5
6	103.6	123.6
7	106.3	126.3
8	105.0	125.0
9	104.1	124.1
10	101.1	121.1

Enter the Orange Fields
Light Gray Fields Are Calculated
Green Fields Are Info Only

Averaging logarithmic data
<https://www.cirrusresearch.co.uk/blog/2013/01/noise-data-averaging-how-do-i-average-noise-measurements/>