Quiet Bore Ti F1 - Ruger 22/45 Lite - CCI SV - 22 LR

Test Setup		
Suppressor	Quiet Bore Ti F1	
Host	Ruger 22/45 Lite	
Ammo	CCI SV	
Caliber	22 LR	
Dry or Wet?	Dry	
Location & Weather		
Date	22-May-2022	
Location	Range 1	
Elevation (Feet ASL)	611	
Time	10:20	
Wind Low - High	5	10
Temperature F*	74	
Humidity %	82%	
Pressure In Hg	30.16	
Speed of Sound FPS	1133	

Meter Settings												
Meter #1				Meter #2				Meter #3				
Mic Position	Muzzle			Mic Position	Left Ear			Mic Position	Right Ear			
Cal Base	114			Cal Base	114			Cal Base	114			
Cal Actual	104	*Adds 10 dB*		Cal Actual	94	*Adds 20 dB*		Cal Actual	94	*Adds 20 dB*		
Cal Offset	10			Cal Offset	20			Cal Offset	20			
Weighting	A			Weighting	A			Weighting	A			
Octave Filter	None			Octave Filter	None			Octave Filter	None			
ISO Freq band	N/A			ISO Freq band	N/A			ISO Freq band	N/A			
Mic Distance (M)	1.0	*Adds 0 dB*		Mic Distance (M)	1.0	*Adds 0 dB*		Mic Distance (M)	1.0	*Adds 0 dB*		
Distance Scaling Factor	0.00			Distance Scaling Factor	0.00			Distance Scaling Factor	0.00			
160 dB Option	Yes		160 Max	160 dB Option	No	140 Max		160 dB Option	No	140 Max		
Meter dB Range	100-160		100-160	Meter dB Range	80-140	80-140		Meter dB Range	80-140	80-140		
Effective dB Range	110-170			Effective dB Range	100-160			Effective dB Range	100-160			
Meter SN	0190			Meter SN	0220			Meter SN	0125			
Meter|Mic|Calibrator	L-D 800B	B&K 4938	CA250	Meter|Mic|Calibrator	L-D 800B	B&K 4938	CA250	Meter|Mic|Calibrator	L-D 800B	B&K 4938	CA250	
Protocol	MIL-STD-1474D			Protocol	MIL-STD-1474D			Protocol	MIL-STD-1474D			

Consolidated Results			
Results	Muzzle	Left Ear	Right Ear
Unsuppressed	153.8	148.8	149.9
Suppressed	126.5	121.8	123.0
NSR	27.3	27.0	26.8
FRP (#1 - Avg)	3.3	3.2	4.1
Avg w/o FRP	126.1	121.4	122.6
Min	124.0	119.6	121.0
Max	129.8	125.0	127.1
Std Dev	2.1	1.8	1.8

Unsuppressed	Muzzle	Left Ear	Right Ear
Raw 1	143.9	129.3	129.8
Raw 2	143.9	128.6	129.9
Raw 3	143.5	128.5	129.9

Suppressed	Muzzle	Left Ear	Right Ear
Raw 1	119.8	105.0	107.1
Raw 2	115.4	100.8	102.8
Raw 3	114.1	100.1	101.0
Raw 4	114.4	100.4	102.8
Raw 5	114.0	99.6	102.0
Raw 6	116.3	101.4	101.5
Raw 7	119.6	103.0	104.8
Raw 8	118.0	104.1	102.8
Raw 9	117.0	101.3	102.9
Raw 10	116.4	102.0	102.6

Calculated Results	Avg (Linear)	Avg (Log)
Unsuppressed	153.8	153.8
Suppressed	126.5	127.0
NSR	27.3	26.8
FRP (#1 - Avg)	3.3	2.8
Avg w/o FRP	126.1	126.5
Min	124.0	
Max	129.8	
Std Dev	2.1	

Unsuppressed Raw dB		Actual dB
1	143.9	153.9
2	143.9	153.9
3	143.5	153.5

Shot	Raw dB	Actual dB
1	119.8	129.8
2	115.4	125.4
3	114.1	124.1
4	114.4	124.4
5	114.0	124.0
6	116.3	126.3
7	119.6	129.6
8	118.0	128.0
9	117.0	127.0
10	116.4	126.4

Calculated Results	Avg (Linear)	Avg (Log)
Unsuppressed	148.8	148.8
Suppressed	121.8	122.1
NSR	27.0	26.7
FRP (#1 - Avg)	3.2	2.9
Avg w/o FRP	121.4	121.6
Min	119.6	
Max	125.0	
Std Dev	1.8	

Unsuppressed Raw dB		Actual dB
1	129.3	149.3
2	128.6	148.6
3	128.5	148.5

Shot	Raw dB	Actual dB
1	105.0	125.0
2	100.8	120.8
3	100.1	120.1
4	100.4	120.4
5	99.6	119.6
6	101.4	121.4
7	103.0	123.0
8	104.1	124.1
9	101.3	121.3
10	102.0	122.0

Calculated Results	Avg (Linear)	Avg (Log)
Unsuppressed	149.9	149.9
Suppressed	123.0	123.4
NSR	26.8	26.5
FRP (#1 - Avg)	4.1	3.7
Avg w/o FRP	122.6	122.7
Min	121.0	
Max	127.1	
Std Dev	1.8	

Unsuppressed Raw dB		Actual dB
1	129.8	149.8
2	129.9	149.9
3	129.9	149.9

Shot	Raw dB	Actual dB
1	107.1	127.1
2	102.8	122.8
3	101.0	121.0
4	102.8	122.8
5	102.0	122.0
6	101.5	121.5
7	104.8	124.8
8	102.8	122.8
9	102.9	122.9
10	102.6	122.6

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/