

Date/Time Long at 15:06:20 January 14, 2019  
 Trigger Source Geo: 1.000 mm/s, Mic: 500.0 pa.(L)  
 Range Geo: 31.75 mm/s  
 Record Time 2.0 sec at 1024 sps  
 Job Number: 1

Serial Number BE17407 V 10.72-1.1 Minimate Blaster  
 Battery Level 6.1 Volts  
 Unit Calibration January 19, 2018 by CIMFR Dhanbad  
 File Name S407HRHJ.AK0  
 Scaled Distance 22.4 (100.0 m, 20.0 kg)

**Notes**

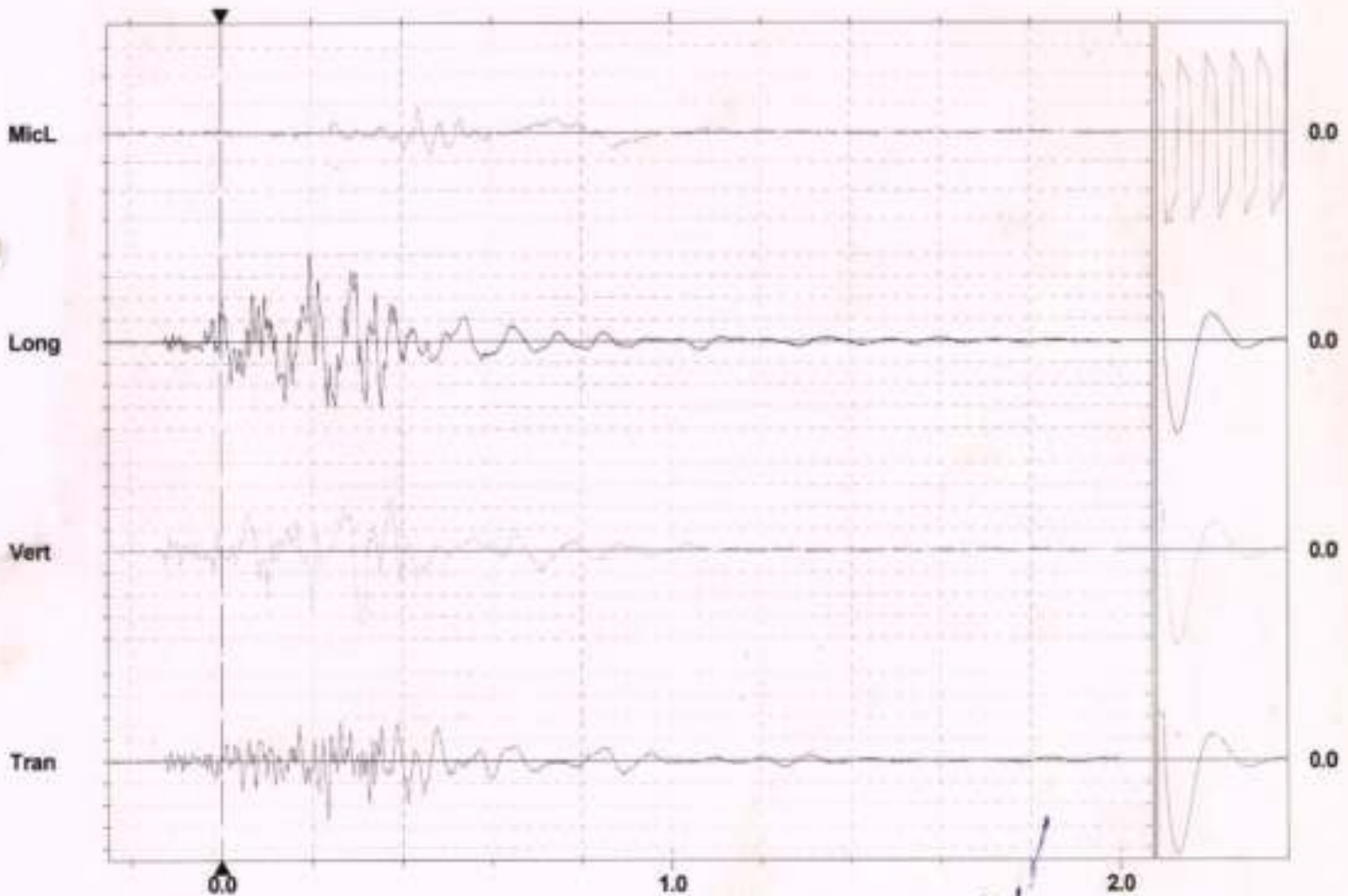
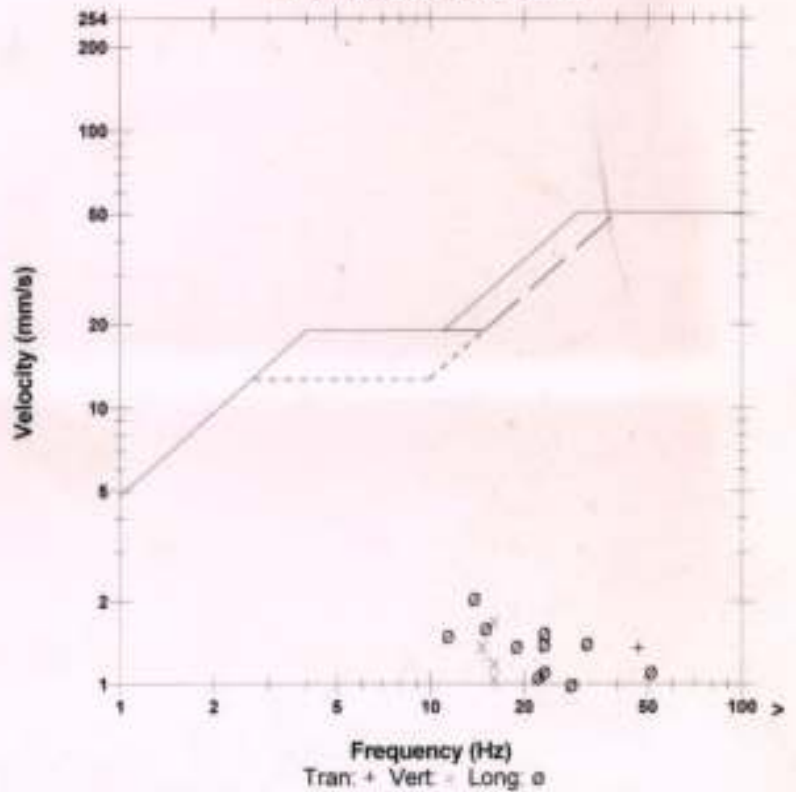
Location: Pit-C  
 Client: Kathaulia Open Cast Coal Mines, HIL  
 User Name: Nishkant Kumar  
 General: Coal Mine

Microphone Linear Weighting  
 PSPL 9.250 pa.(L) at 0.437 sec  
 ZC Freq 27 Hz  
 Channel Test Passed (Freq = 19.7 Hz Amp = 451 mv)

	Tran	Vert	Long	
PPV	1.349	1.699	2.064	mm/s
ZC Freq	47	16	14	Hz
Time (Rel. to Trig)	0.234	0.310	0.196	sec
Peak Acceleration	0.043	0.027	0.053	g
Peak Displacement	0.007	0.017	0.018	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.6	Hz
Overswing Ratio	3.7	3.4	3.5	

Peak Vector Sum 2.242 mm/s at 0.196 sec

**USBM R18507 And OSMRE**



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.500 mm/s/div Mic: 10.000 pa.(L)/div  
 Trigger = <math>\blacktriangleleft \blacktriangleright</math>

*Nishkant Kumar* Sensor Check

Date/Time Vert at 15:24:04 January 12, 2019  
 Trigger Source Geo: 1.000 mm/s, Mic: 500.0 pa.(L)  
 Range Geo: 31.75 mm/s  
 Record Time 2.0 sec at 1024 sps  
 Job Number: 1

Serial Number BE17407 V 10.72-1.1 Minimate Blaster  
 Battery Level 6.1 Volts  
 Unit Calibration January 19, 2018 by CIMFR Dhanbad  
 File Name S407HRDU.S40  
 Scaled Distance 22.4 (100.0 m, 20.0 kg)

**Notes**

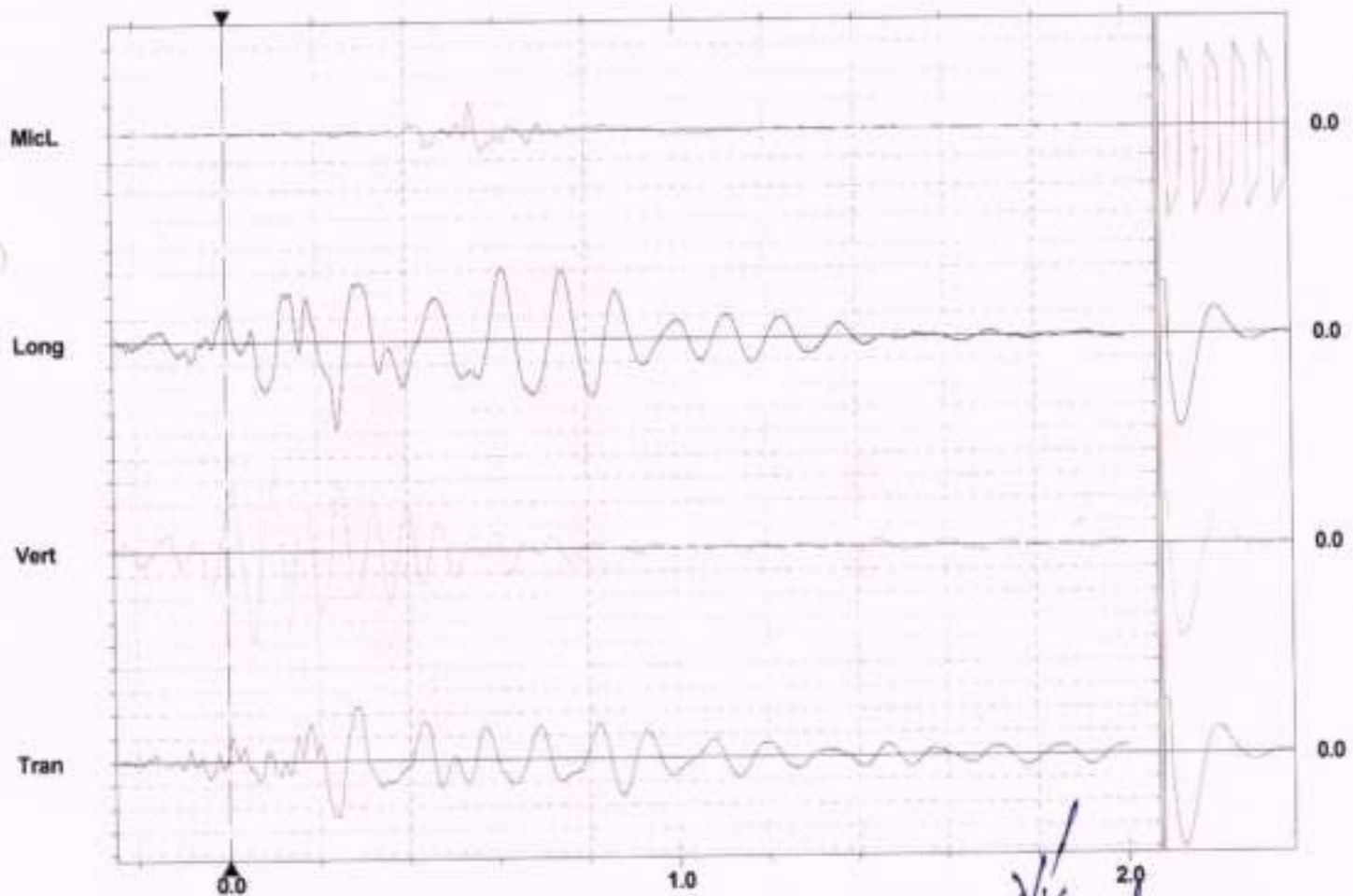
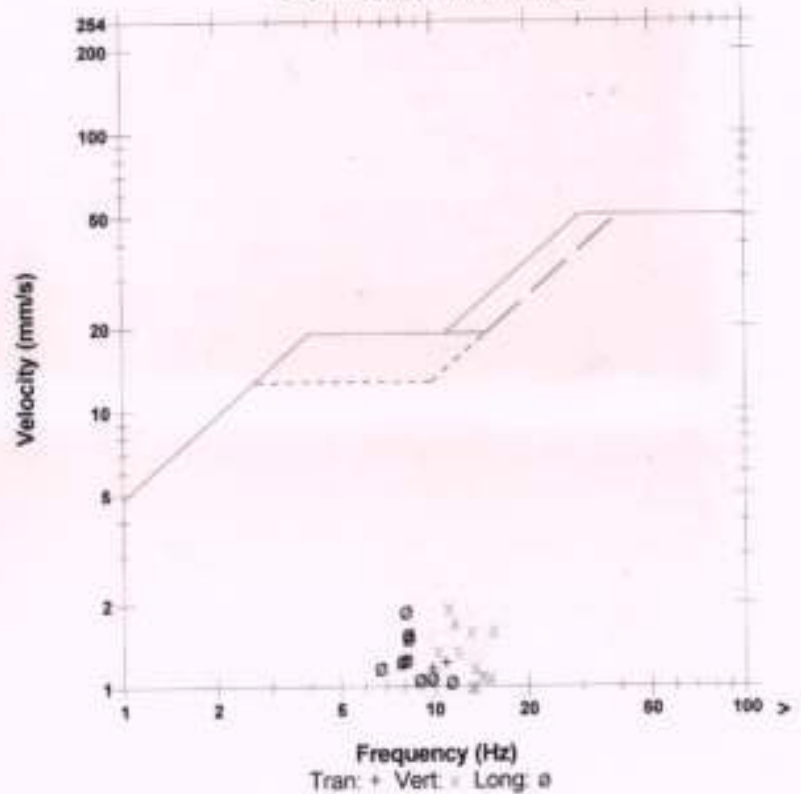
Location: Pit-C  
 Client: Kathaulia Open Cast Coal Mines, HIL  
 User Name: Nishikant Kumar  
 General: Coal Mine

Microphone Linear Weighting  
 PSPL 10.25 pa.(L) at 0.544 sec  
 ZC Freq 26 Hz  
 Channel Test Passed (Freq = 19.7 Hz Amp = 458 mv)

	Tran	Vert	Long	
PPV	1.222	1.937	1.889	mm/s
ZC Freq	11	11	8.1	Hz
Time (Rel. to Trig)	0.242	0.057	0.245	sec
Peak Acceleration	0.015	0.018	0.017	g
Peak Displacement	0.019	0.024	0.030	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.5	7.7	Hz
Overswing Ratio	3.6	3.4	3.6	

Peak Vector Sum 2.740 mm/s at 0.245 sec

**USBM R18507 And OSMRE**



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.500 mm/s/div Mic: 10.000 pa.(L)/div  
 Trigger = > <

*Nishikant* 2.0  
 Sensor Check

Date/Time Tran at 18:35:18 January 11, 2019  
 Trigger Source Geo: 1.000 mm/s, Mic: 500.0 pa.(L)  
 Range Geo: 31.75 mm/s  
 Record Time 2.0 sec at 1024 sps  
 Job Number: 1

Serial Number BE17407 V 10.72-1.1 Minimate Blaster  
 Battery Level 6.1 Volts  
 Unit Calibration January 19, 2018 by CIMFR Dhanbad  
 File Name S407HRC3.ES0  
 Scaled Distance 22.4 (100.0 m, 20.0 kg)

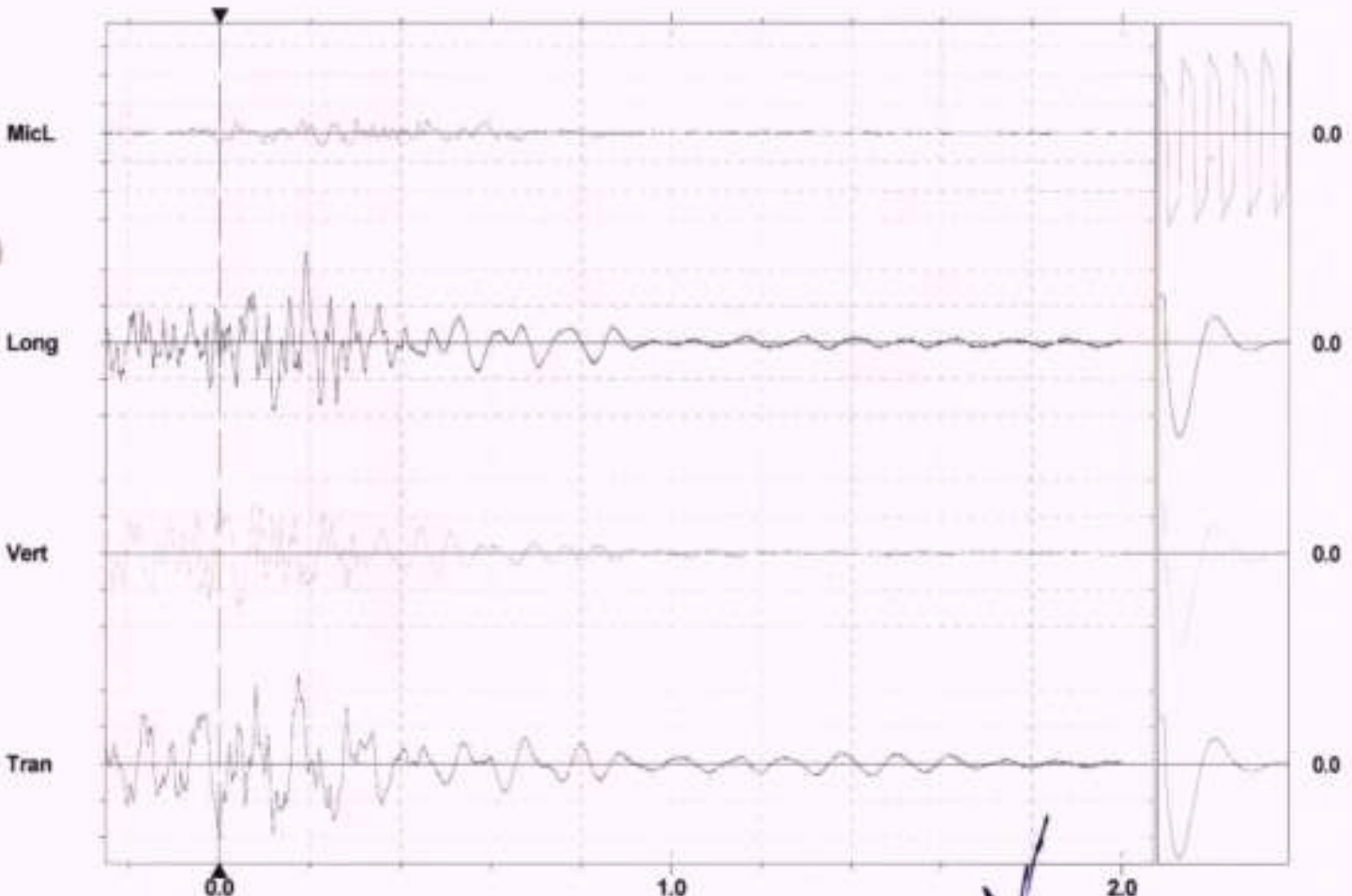
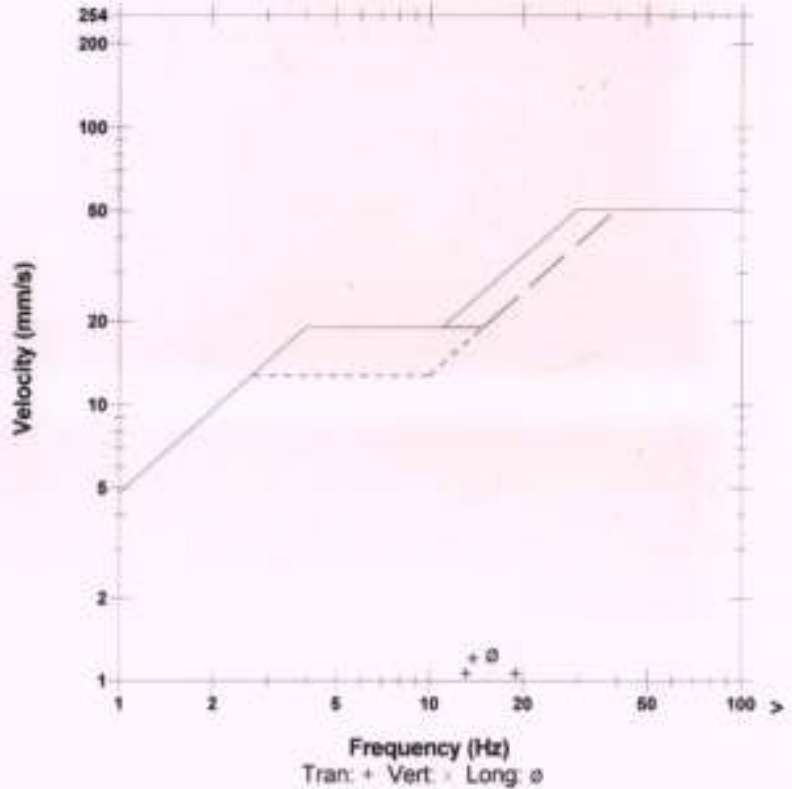
**Notes**  
 Location: Pit-C  
 Client: Kathautia Open Cast Coal Mines, HIL  
 User Name: Nishikant Kumar  
 General: Coal Mine

Microphone Linear Weighting  
 PSPL 5.000 pa.(L) at 0.301 sec  
 ZC Freq 39 Hz  
 Channel Test Passed (Freq = 19.7 Hz Amp = 494 mv)

	Tran	Vert	Long	
PPV	1.206	0.841	1.254	mm/s
ZC Freq	14	13	16	Hz
Time (Rel. to Trig)	0.175	0.040	0.191	sec
Peak Acceleration	0.025	0.020	0.025	g
Peak Displacement	0.013	0.009	0.009	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.6	7.7	Hz
Overswing Ratio	3.7	3.4	3.6	

Peak Vector Sum 1.413 mm/s at 0.118 sec

**USBM RI8507 And OSMRE**



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.500 mm/s/div Mic: 10,000 pa.(L)/div  
 Trigger =  $\leftarrow$   $\rightarrow$

*Nishikant Kumar*  
 Sensor Check

**Date/Time** Long at 15:45:00 January 9, 2019  
**Trigger Source** Geo: 1.000 mm/s, Mic: 500.0 pa.(L)  
**Range** Geo: 31.75 mm/s  
**Record Time** 2.0 sec at 1024 sps  
**Job Number:** 1

**Serial Number** BE17407 V 10.72-1.1 Minimate Blaster  
**Battery Level** 6.1 Volts  
**Unit Calibration** January 19, 2018 by CIMFR Dhanbad  
**File Name** S407HR8B.R00  
**Scaled Distance** 22.4 (100.0 m, 20.0 kg)

### Notes

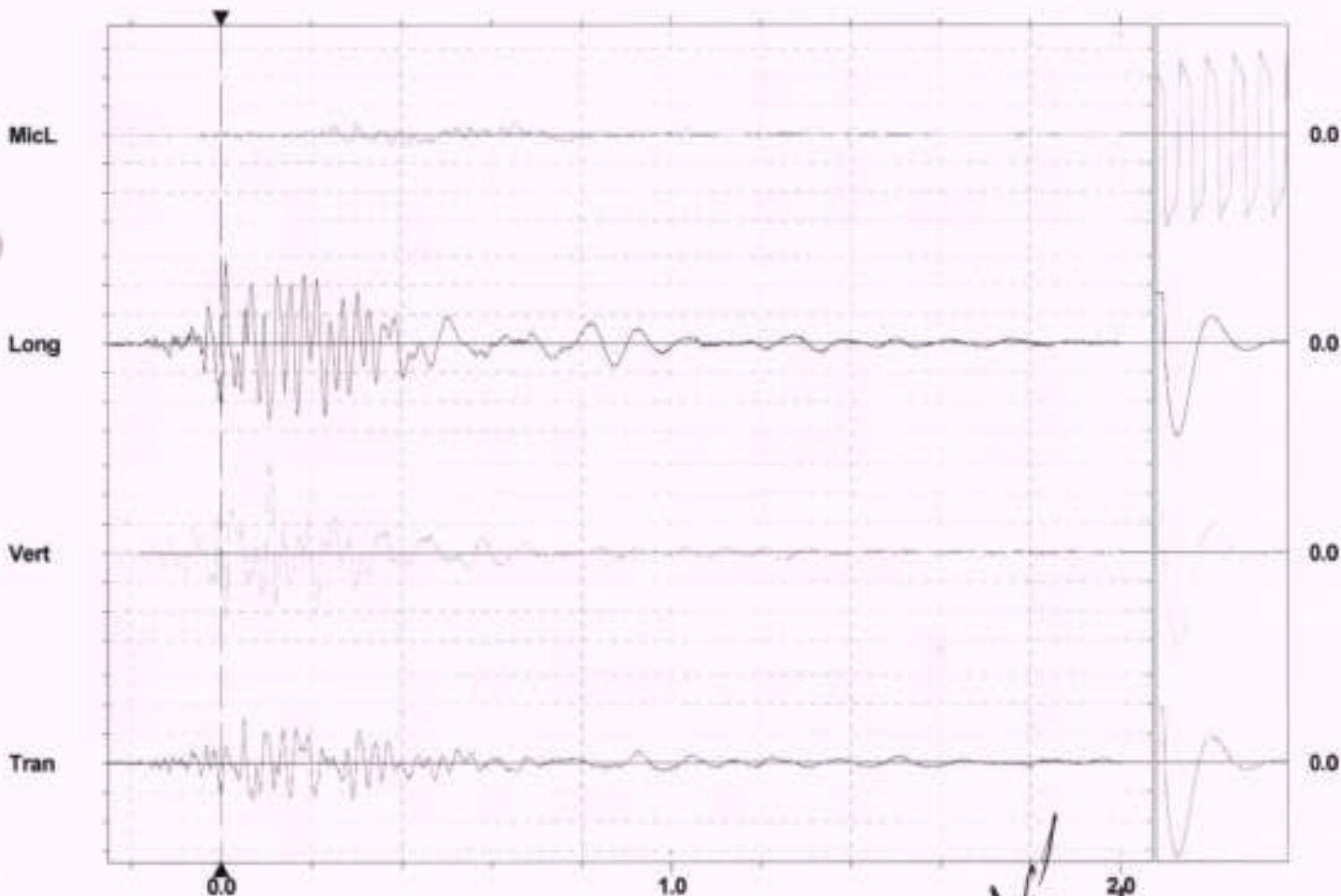
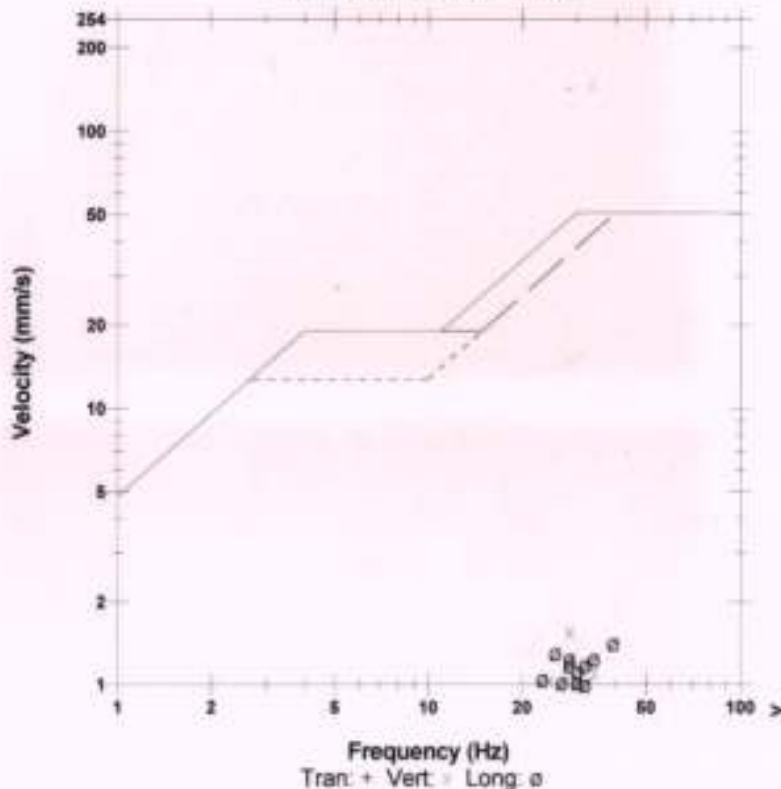
**Location:** Pit-C  
**Client:** Kathautia Open Cast Coal Mines, HIL  
**User Name:** Nishikant Kumar  
**General:** Coal Mine

**Microphone** Linear Weighting  
**PSPL** 4.000 pa.(L) at 0.653 sec  
**ZC Freq** 15 Hz  
**Channel Test** Passed (Freq = 19.7 Hz Amp = 467 mv)

	Tran	Vert	Long	
PPV	0.762	1.556	1.413	mm/s
ZC Freq	43	28	39	Hz
Time (Rel. to Trig)	0.051	0.109	0.012	sec
Peak Acceleration	0.027	0.033	0.038	g
Peak Displacement	0.007	0.009	0.008	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.5	7.7	Hz
Overswing Ratio	3.6	3.4	3.6	

Peak Vector Sum 2.039 mm/s at 0.109 sec

USBM RI8507 And OSMRE



**Time Scale:** 0.20 sec/div **Amplitude Scale:** Geo: 0.500 mm/s/div Mic: 10.000 pa.(L)/div  
**Trigger =**

*Nishikant Kumar*

Sensor Check

**Date/Time** Tran at 15:21:00 January 8, 2019  
**Trigger Source** Geo: 1.000 mm/s, Mic: 500.0 pa (L)  
**Range** Geo: 31.75 mm/s  
**Record Time** 2.0 sec at 1024 sps  
**Job Number:** 1

**Serial Number** BE17407 V 10.72-1.1 Minimate Blaster  
**Battery Level** 6.1 Volts  
**Unit Calibration** January 19, 2018 by CIMFR Dhanbad  
**File Name** S407HR6F Z00  
**Scaled Distance** 22.4 (100.0 m, 20.0 kg)

### Notes

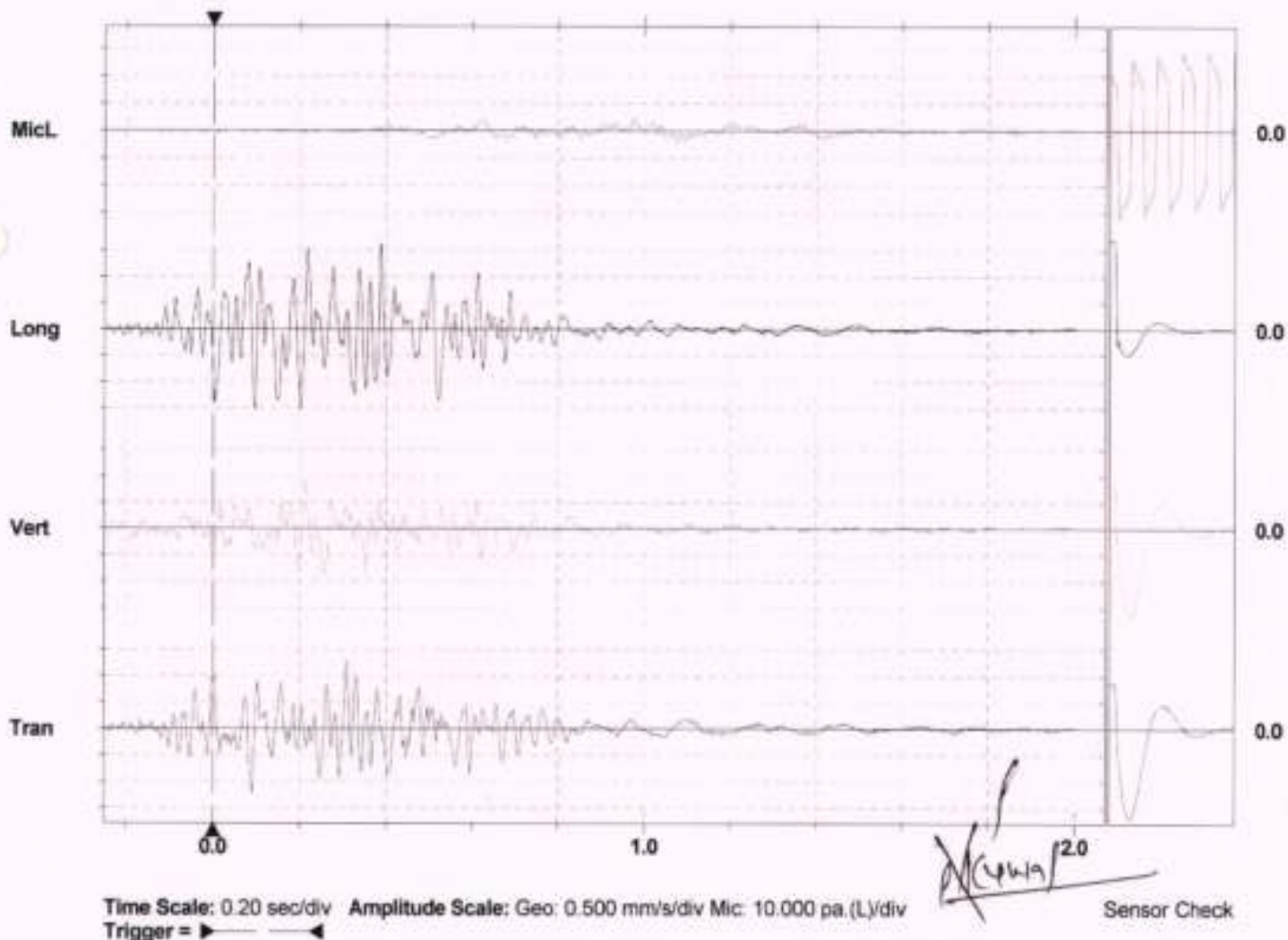
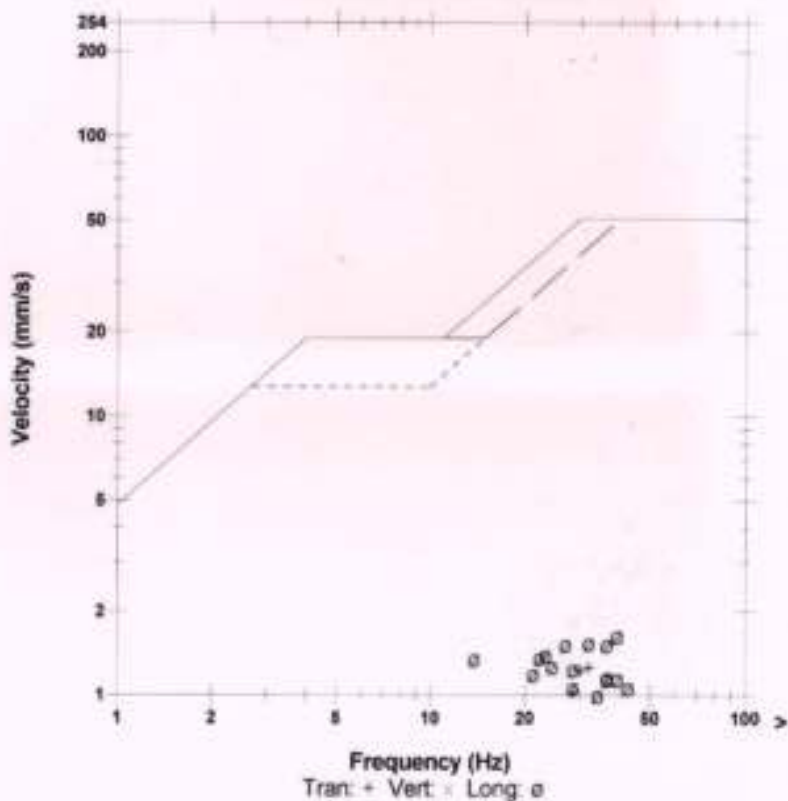
**Location:** Pit-C  
**Client:** Kathaulia Open Cast Coal Mines, HIL  
**User Name:** Nishikant Kumar  
**General:** Coal Mine

**Microphone** Linear Weighting  
**PSPL** 4.250 pa (L) at 0.623 sec  
**ZC Freq** 12 Hz  
**Channel Test** Passed (Freq = 20.1 Hz Amp = 508 mv)

	Tran	Vert	Long	
PPV	1.254	0.921	1.635	mm/s
ZC Freq	32	30	39	Hz
Time (Rel. to Trig)	0.308	0.212	0.388	sec
Peak Acceleration	0.030	0.025	0.045	g
Peak Displacement	0.007	0.008	0.012	mm
Sensor Check	Passed	Passed	Check	
Frequency	7.5	7.5	8.6	Hz
Overswing Ratio	3.7	3.4	3.4	

Peak Vector Sum 1.753 mm/s at 0.003 sec

### USBM RI8507 And OSMRE



Date/Time Vert at 13:41:09 January 5, 2019  
 Trigger Source Geo: 1.000 mm/s, Mic: 500.0 pa.(L)  
 Range Geo: 31.75 mm/s  
 Record Time 2.0 sec at 1024 sps  
 Job Number: 1

Serial Number BE17407 V 10.72-1.1 Minimate Blaster  
 Battery Level 6.1 Volts  
 Unit Calibration January 19, 2018 by CIMFR Dhanbad  
 File Name S407HR0R.CLO  
 Scaled Distance 22.4 (100.0 m, 20.0 kg)

**Notes**

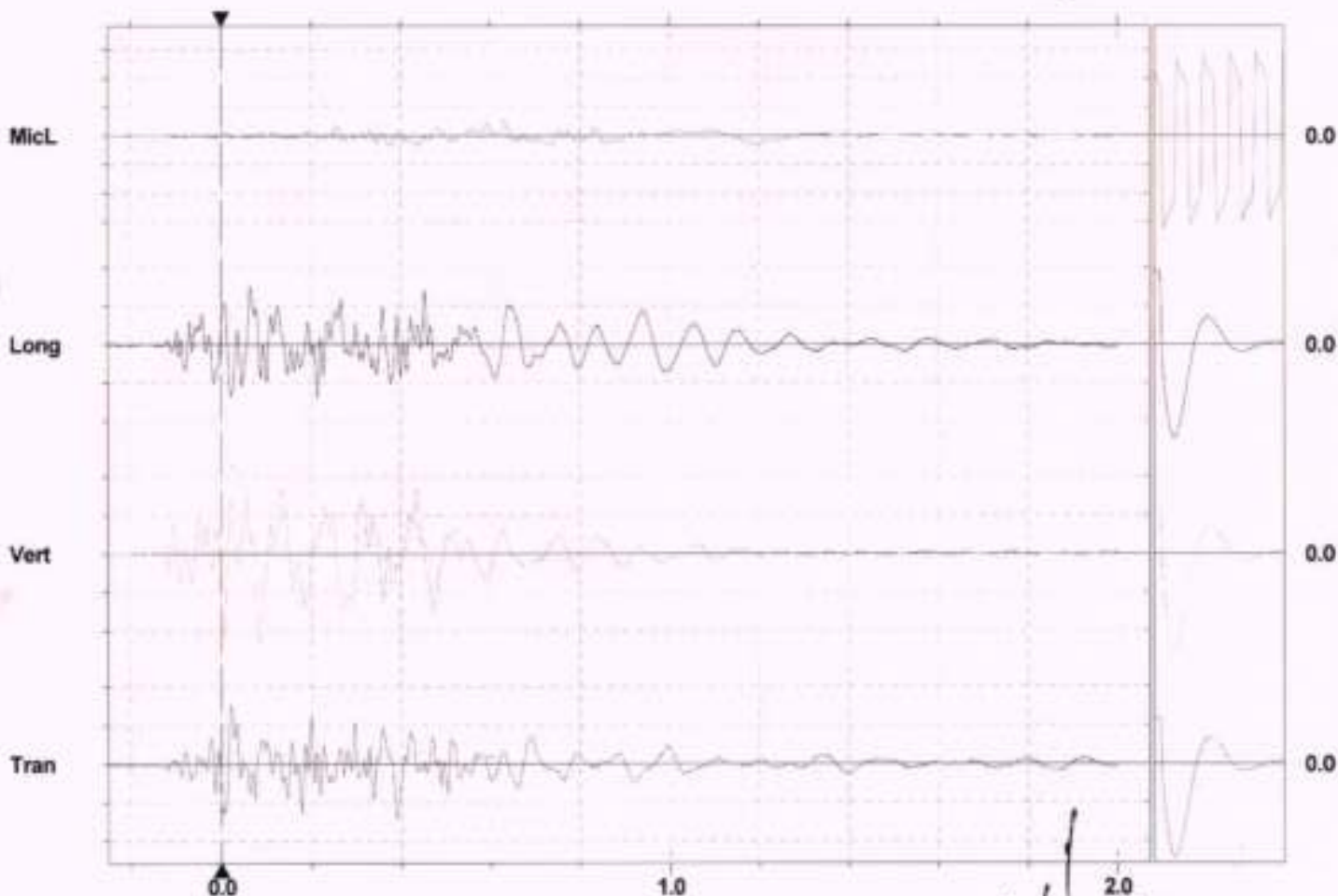
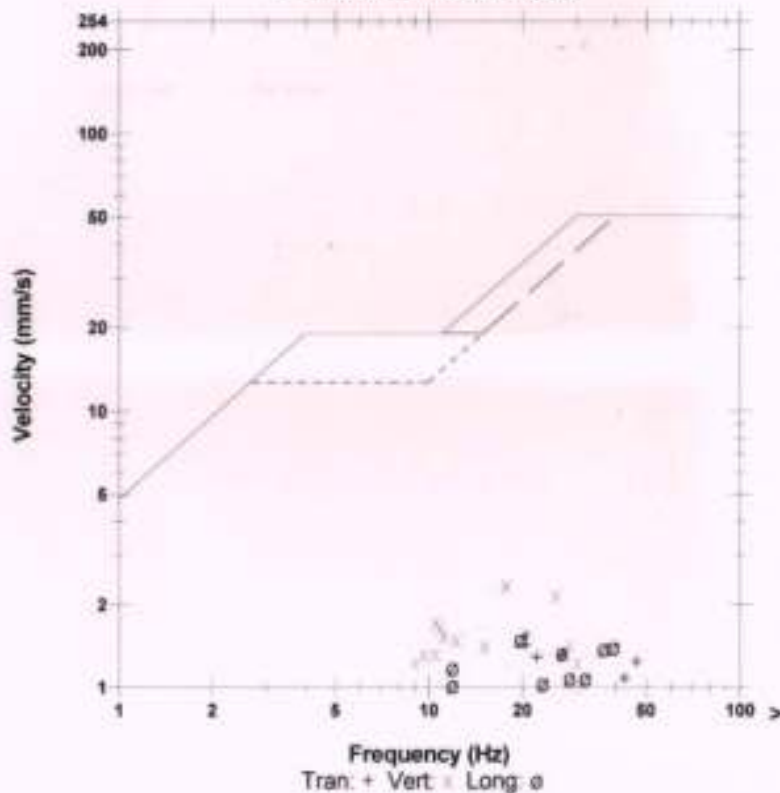
Location: Pit-C  
 Client: Kathautia Open Cast Coal Mines, HIL  
 User Name: Nishikant Kumar  
 General: Coal Mine

Microphone Linear Weighting  
 PSPL 5.500 pa.(L) at 0.632 sec  
 ZC Freq 23 Hz  
 Channel Test Passed (Freq = 20.1 Hz Amp = 502 mv )

	Tran	Vert	Long	
PPV	1.540	2.349	1.492	mm/s
ZC Freq	20	18	20	Hz
Time (Rel. to Trig)	0.022	0.085	0.065	sec
Peak Acceleration	0.041	0.038	0.036	g
Peak Displacement	0.011	0.024	0.014	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.4	7.6	7.8	Hz
Overswing Ratio	3.7	3.3	3.5	

Peak Vector Sum 2.707 mm/s at 0.005 sec

**USBM R18507 And OSMRE**



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 1.000 mm/s/div Mic: 10.000 pa.(L)/div  
 Trigger = <math>\blacktriangleleft \blacktriangleright</math>

*Nishikant Kumar*  
 Sensor Check

**Date/Time** Vert at 13:32:46 January 5, 2019  
**Trigger Source** Geo: 1.000 mm/s, Mic: 500.0 pa.(L)  
**Range** Geo: 31.75 mm/s  
**Record Time** 2.0 sec at 1024 sps  
**Job Number:** 1

**Serial Number** BE17407 V 10.72-1.1 Minimate Blaster  
**Battery Level** 6.1 Volts  
**Unit Calibration** January 19, 2018 by CIMFR Dhanbad  
**File Name** S407HR0Q.YM0  
**Scaled Distance** 22.4 (100.0 m, 20.0 kg)

**Notes**

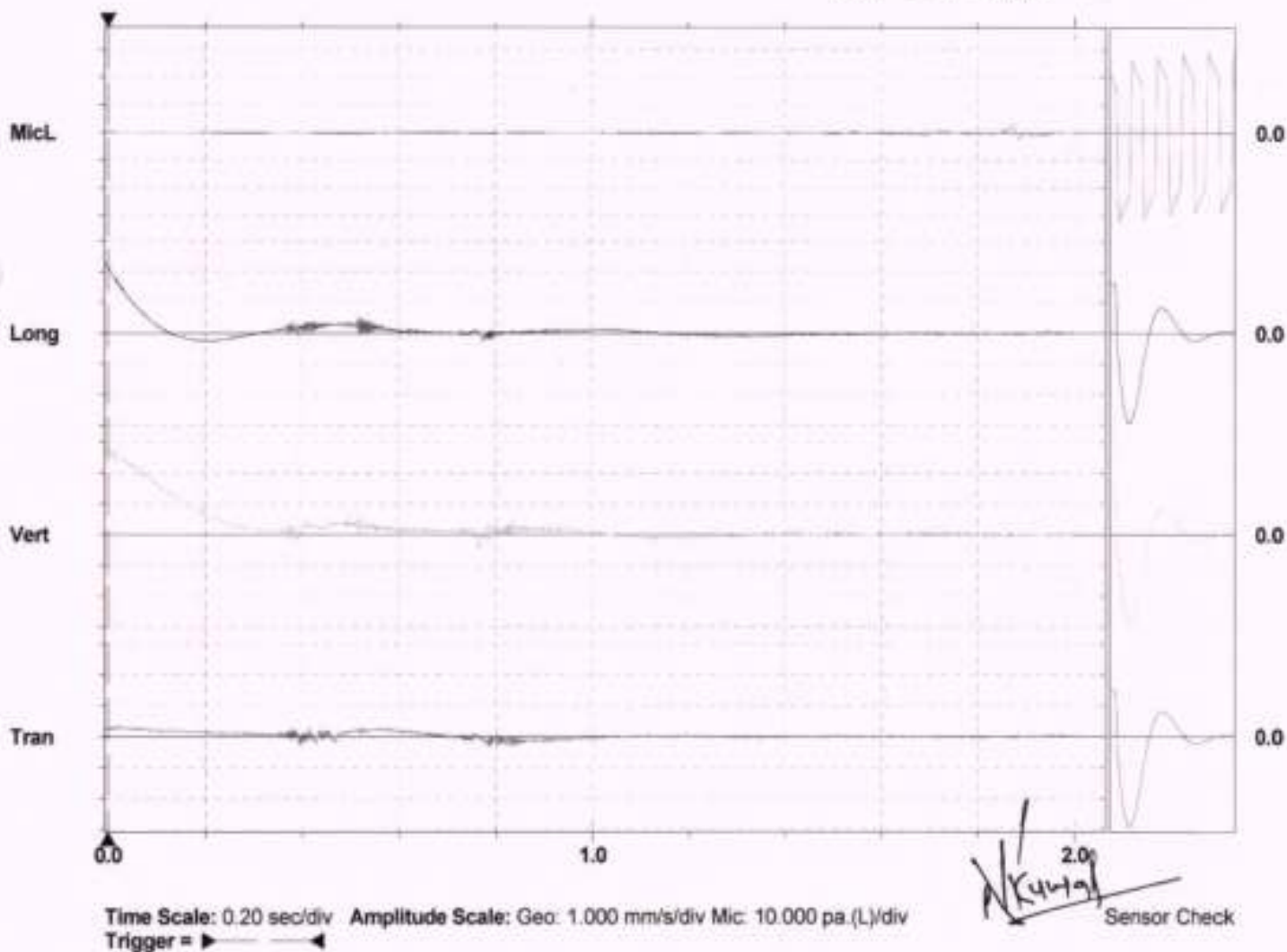
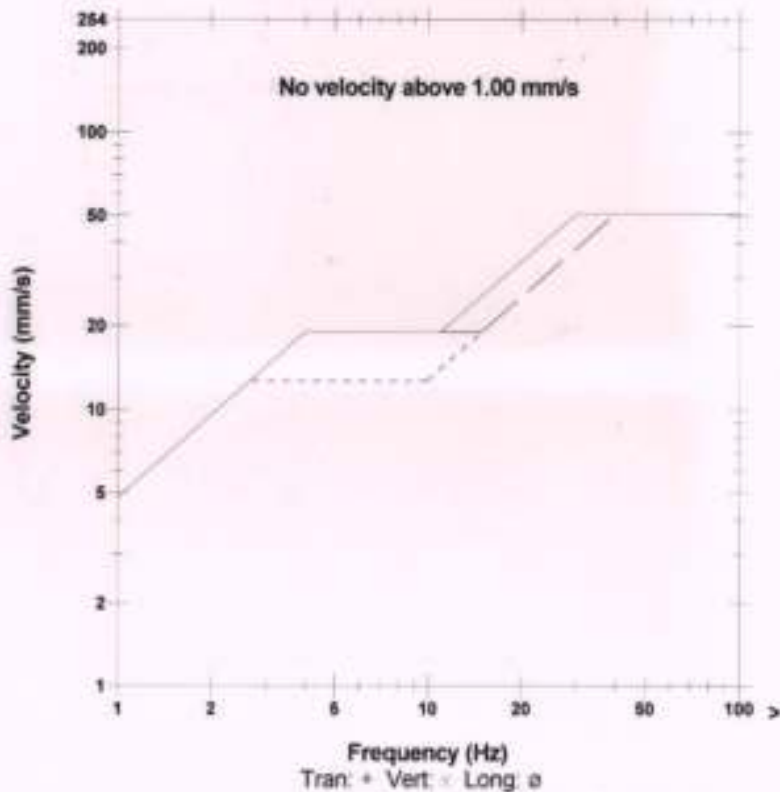
**Location:** Pit-C  
**Client:** Kathautia Open Cast Coal Mines, HIL  
**User Name:** Nishikant Kumar  
**General:** Coal Mine

**Microphone** Linear Weighting  
**PSPL** 3.250 pa.(L) at 1.873 sec  
**ZC Freq** 16 Hz  
**Channel Test** Passed (Freq = 20.1 Hz Amp = 497 mv)

	Tran	Vert	Long	
PPV	0.349	2.826	2.302	mm/s
ZC Freq	>100	N/A	N/A	Hz
Time (Rel. to Trig)	0.787	0.002	-0.007	sec
Peak Acceleration	0.028	0.035	0.041	g
Peak Displacement	0.030	0.199	0.064	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.5	7.8	Hz
Overswing Ratio	3.6	3.4	3.5	

**Peak Vector Sum** 3.616 mm/s at -0.007 sec  
 N/A: Not Applicable

**USBM R18507 And OSMRE**



Date/Time Vert at 12:56:17 January 4, 2019  
 Trigger Source Geo: 1.000 mm/s, Mic: 500.0 pa.(L)  
 Range Geo: 31.75 mm/s  
 Record Time 2.0 sec at 1024 sps  
 Job Number: 1

Serial Number BE17407 V 10.72-1.1 Minimate Blaster  
 Battery Level 6.0 Volts  
 Unit Calibration January 19, 2018 by CIMFR Dhanbad  
 File Name S407HQYU.LTD  
 Scaled Distance 22.4 (100.0 m, 20.0 kg)

**Notes**

Location: Pit-C  
 Client: Kathautia Open Cast Coal Mines, HIL  
 User Name: Nishkant Kumar  
 General: Coal Mine

Microphone Linear Weighting  
 PSPL 3.500 pa.(L) at 0.554 sec  
 ZC Freq 8.7 Hz  
 Channel Test Passed (Freq = 20.1 Hz Amp = 539 mv )

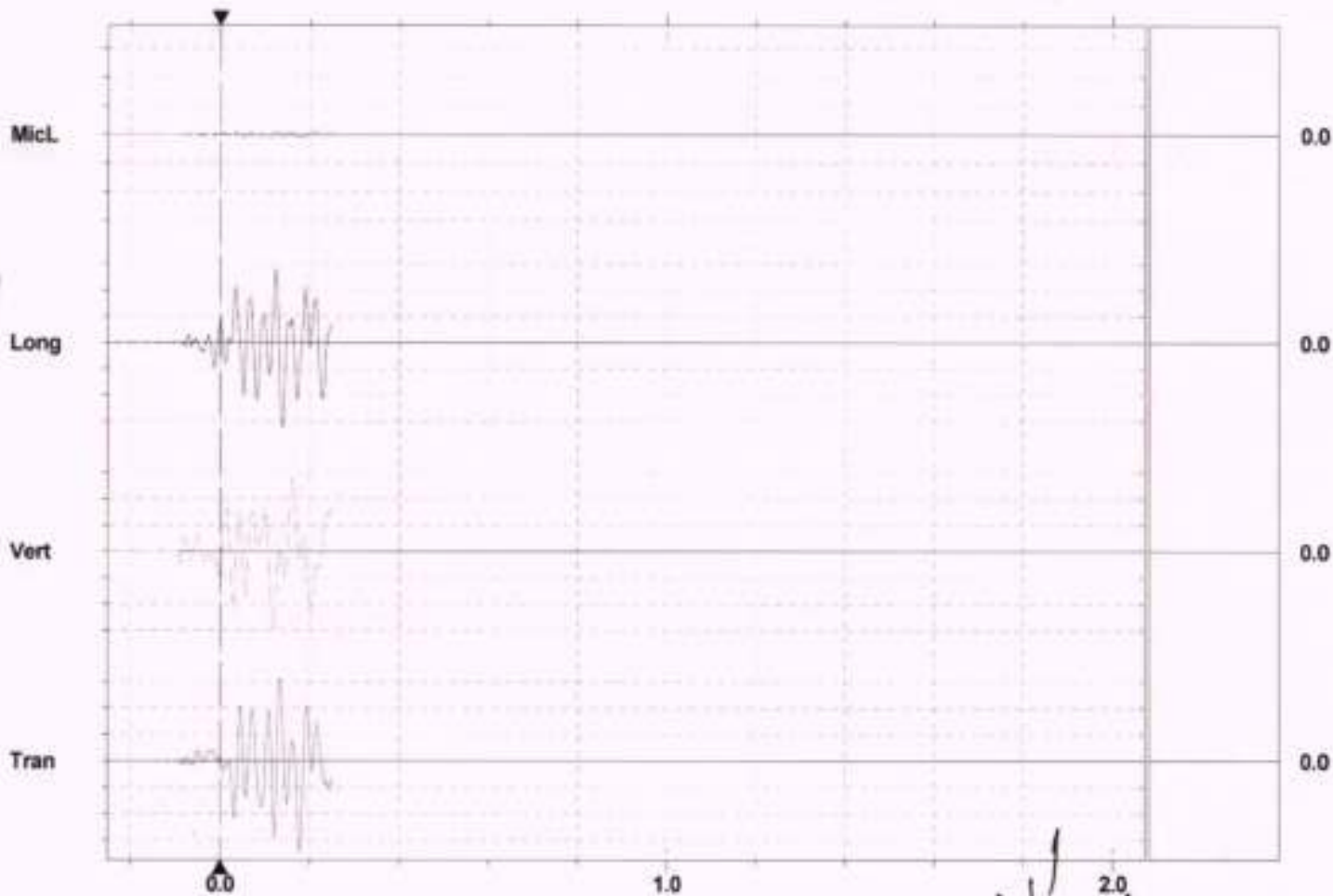
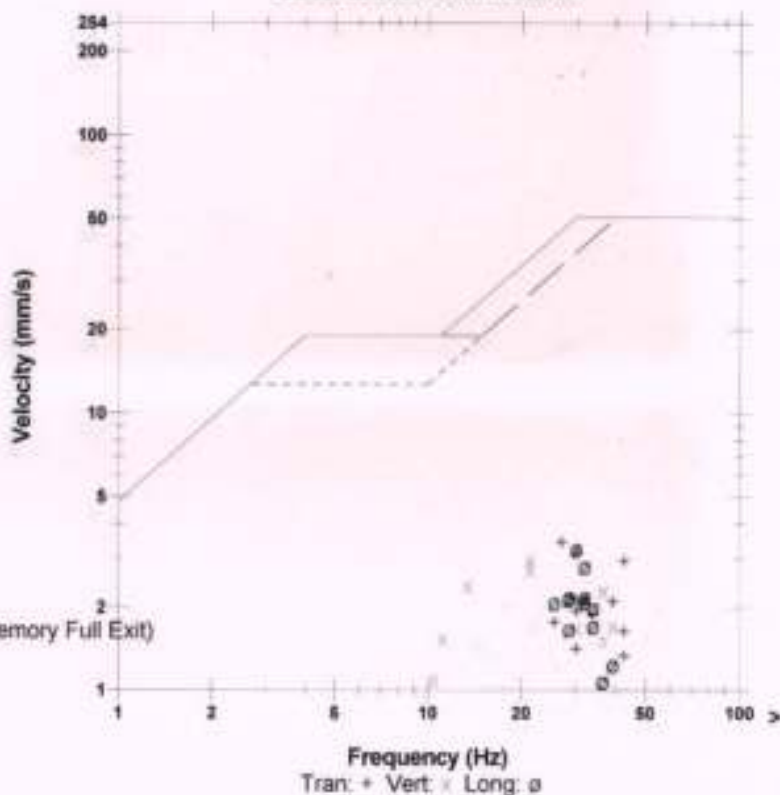
	Tran	Vert	Long	
PPV	3.429	2.969	3.238	mm/s
ZC Freq	27	21	30	Hz
Time (Rel. to Trig)	0.177	0.118	0.140	sec
Peak Acceleration	0.080	0.058	0.068	g
Peak Displacement	0.019	0.021	0.020	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.6	7.7	Hz
Overswing Ratio	3.7	3.5	3.6	

Peak Vector Sum 4.558 mm/s at 0.121 sec

**Monitor Log**

Jan 4 /19 12:52:31 Jan 4 /19 12:56:18 Event recorded. (Memory Full Exit)

**USBM RI8507 And OSMRE**



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 1.000 mm/s/div Mic: 10.000 pa.(L)/div  
 Trigger = <math>\leftarrow \rightarrow</math>

*Nishkant Kumar*  
 2.0  
 Sensor Check



**Date/Time** Long at 12:55:49 January 3, 2019  
**Trigger Source** Geo: 1.000 mm/s, Mic: 500.0 pa. (L)  
**Range** Geo: 31.75 mm/s  
**Record Time** 2.0 sec at 1024 sps  
**Job Number:** 1

**Serial Number** BE17407 V 10.72-1.1 Minimate Blaster  
**Battery Level** 6.1 Volts  
**Unit Calibration** January 19, 2018 by CIMFR Dhanbad  
**File Name** S407HQWZ.X10  
**Scaled Distance** 22.4 (100.0 m, 20.0 kg)

**Notes**

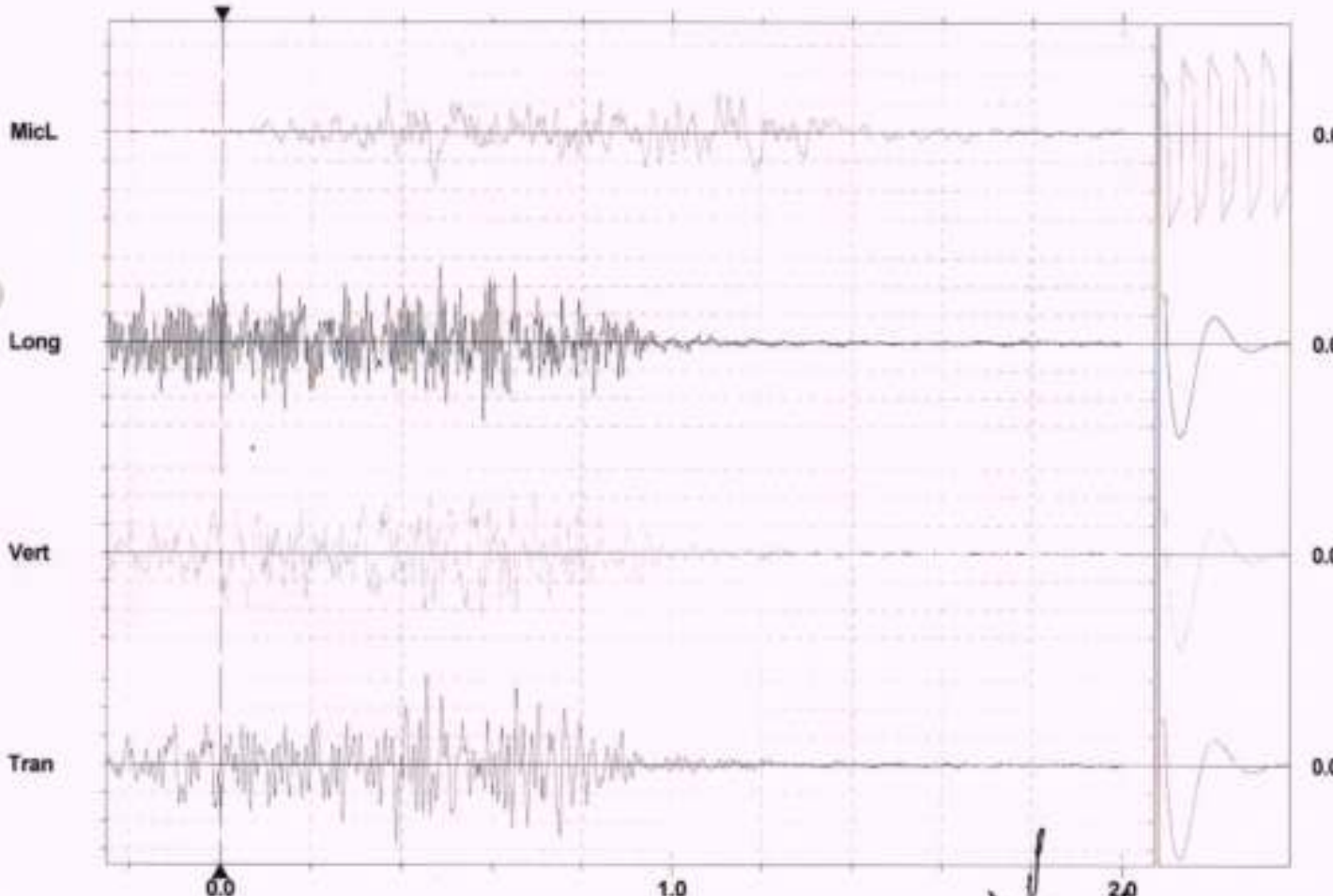
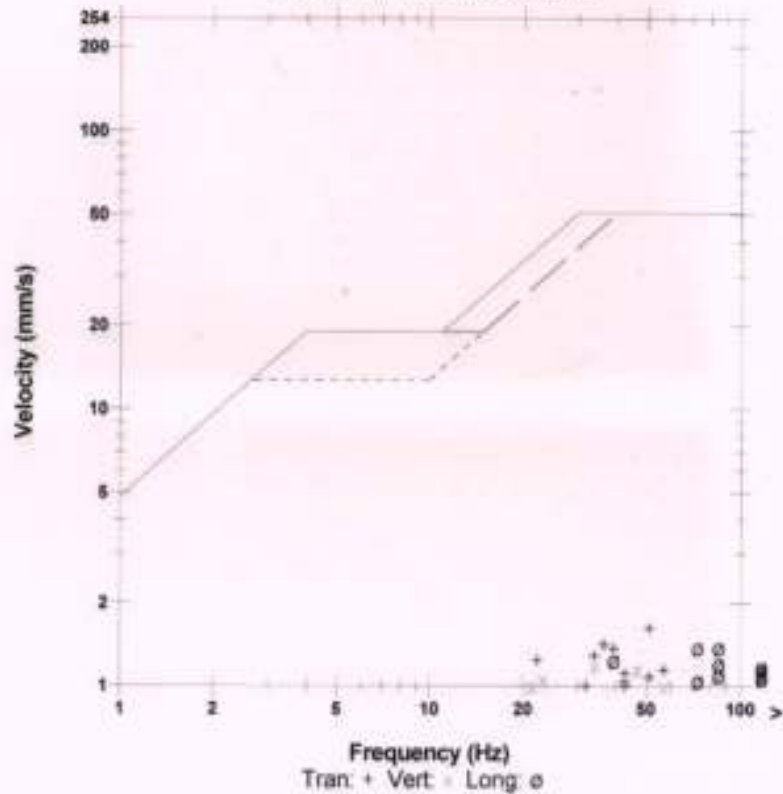
**Location:** Pit-C  
**Client:** Kathauba Open Cast Coal Mines, HIL  
**User Name:** Nishikant Kumar  
**General:** Coal Mine

**Microphone** Linear Weighting  
**PSPL** 17.00 pa. (L) at 0.472 sec  
**ZC Freq** 15 Hz  
**Channel Test** Passed (Freq = 20.1 Hz Amp = 538 mv)

	Tran	Vert	Long	
PPV	1.619	1.175	1.381	mm/s
ZC Freq	51	34	73	Hz
Time (Rel. to Trig)	0.455	0.576	0.482	sec
Peak Acceleration	0.056	0.053	0.073	g
Peak Displacement	0.006	0.008	0.004	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.5	7.6	Hz
Overswing Ratio	3.8	3.5	3.6	

Peak Vector Sum 1.833 mm/s at 0.454 sec

**USBM R18507 And OSMRE**



Time Scale: 0.20 sec/div    Amplitude Scale: Geo: 0.500 mm/s/div Mic: 10.000 pa. (L)/div  
 Trigger =  $\longleftrightarrow$

*Nishikant Kumar*  
 20  
 Sensor Check