

Light Weight Vibrometer
Seismic Ground Vibration & Sound Analyzer
Blast Induced Ground Vibration & Sound Analyzer
EVS(Environmental Vibration & Sound) Measurement

PC Software User Manual

Third Edition (Ver. 3.0.0.d)



SVIB Software Technologies Pvt. Ltd

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[BLS PC Software]

1. Copying Files to system & Installation Steps:

Before installing the BLS Package user need to copy the result files in to the system in a particular folder.

1.1. System Requirement:

Operating System: Windows

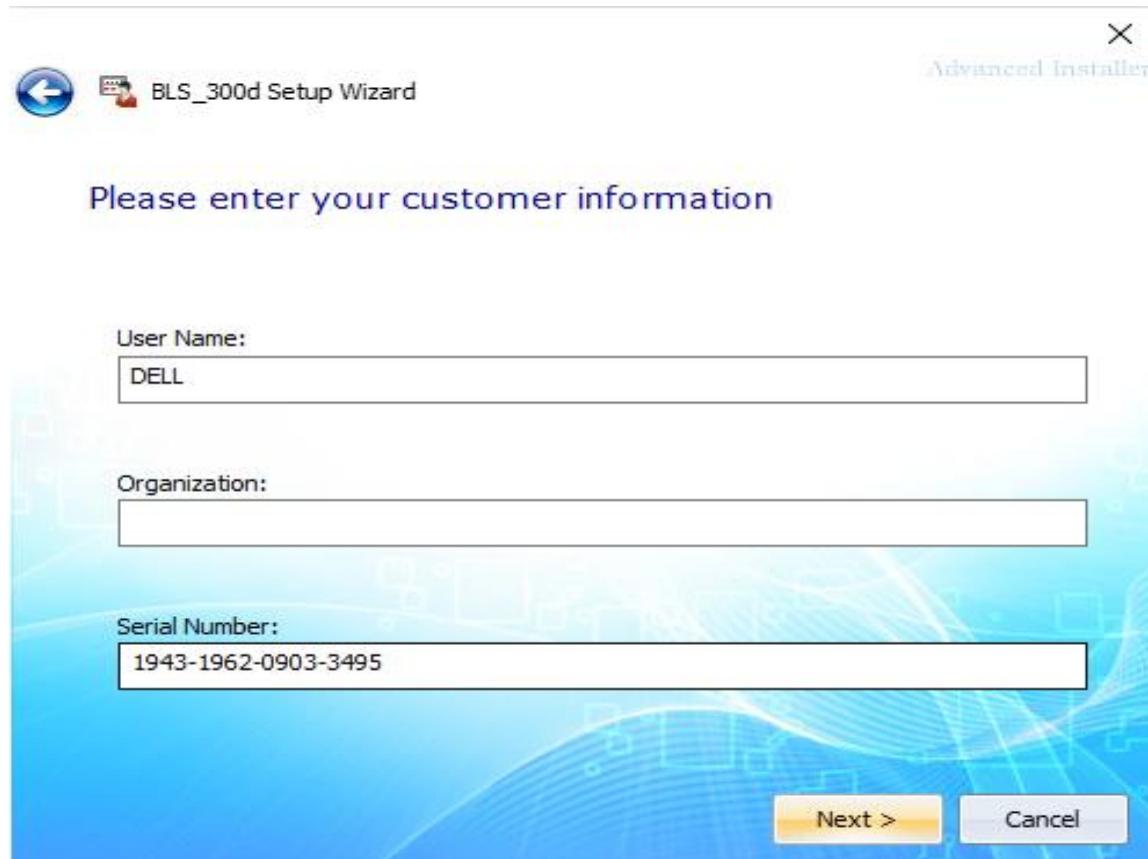
RAM : 8GB

System Type : 64Bit

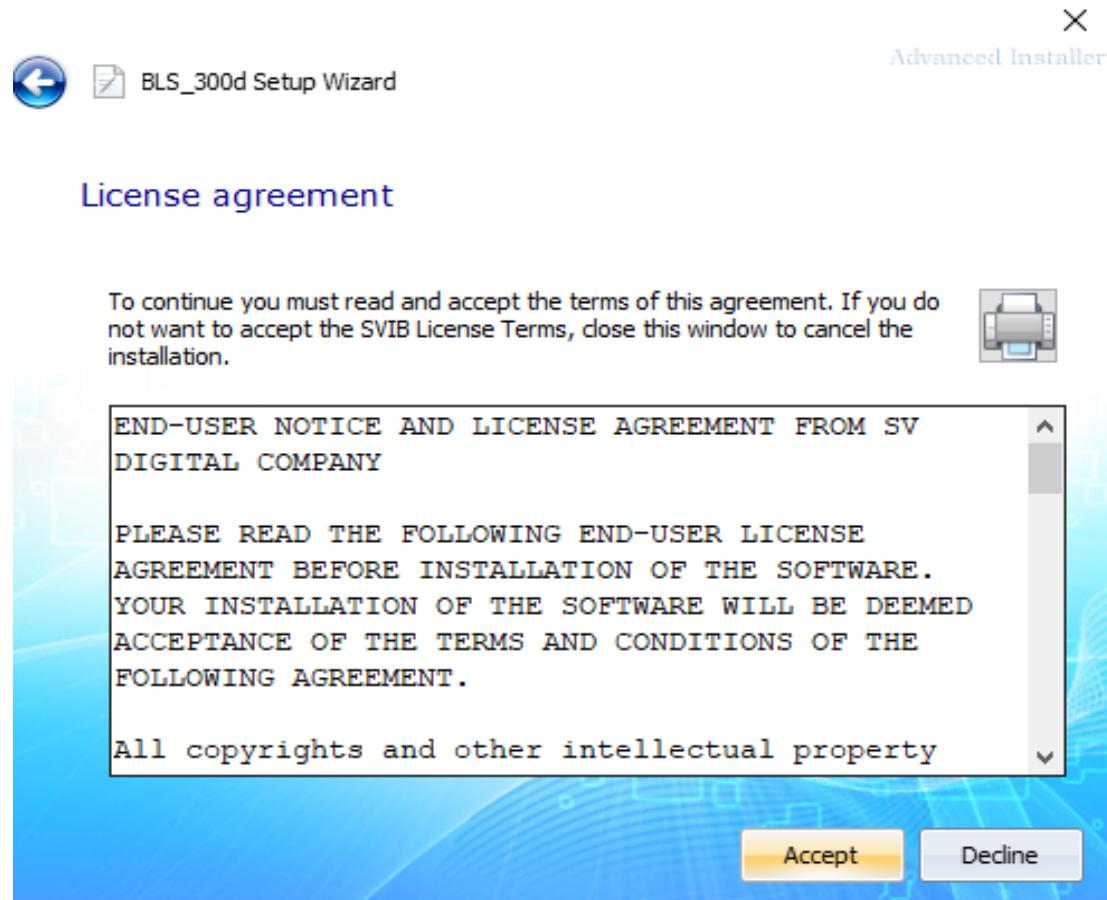
(For 32 bit different version of PC Software is need to install)

1.2: Steps for installation of BLS300 PC Software:

- Double click on .exe file click Next.
- Paste the serial key (which is given in a text file along with the .exe package) & click Next.
- For First Time installation of BLS Package it will ask for the crystal report installation
- User need to install the crystal report along with the main installation of BLS
- After installation of crystal report continue with the main installation of BLS PC Software.



- Then click on Accept button to accept the terms & Conditions



- Select Typical & click Next
- Then click on Install& then Finish.

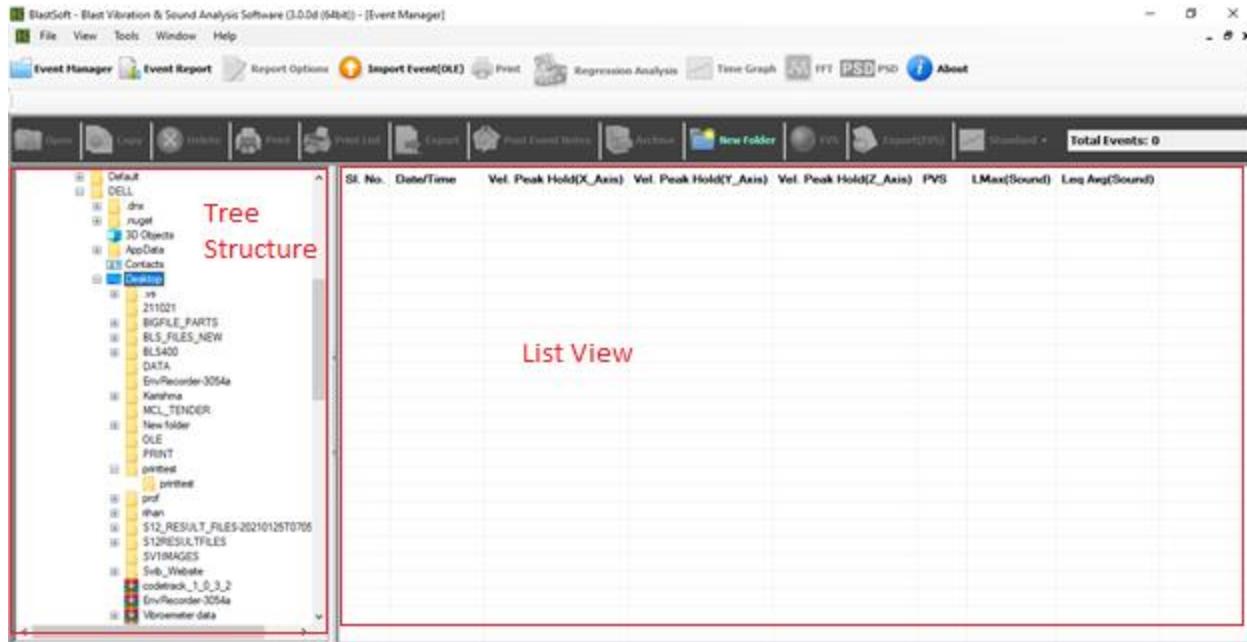
2. Application Launching:

Install the BLS Package as discussed in 1.2 and Click on icon  on Desktop to launch the application

Event Manager Window will appear .Left hand side one tree structure & right hand side list view

2.1. Tree structure

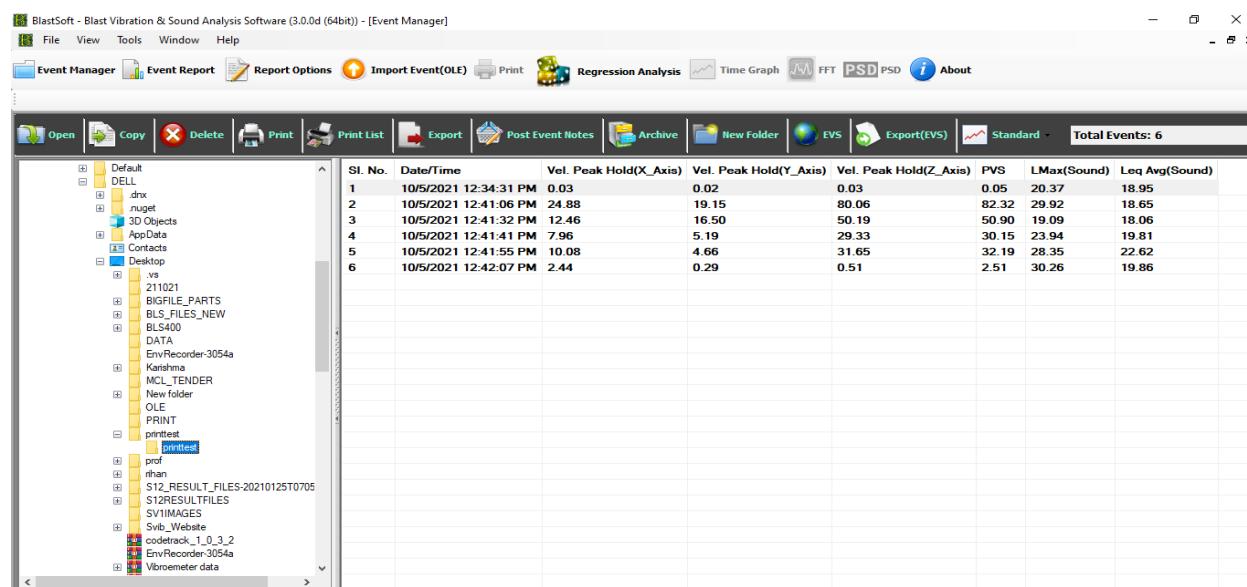
Tree structure is used to select the folder from where Blast files are stored as explain in 1.



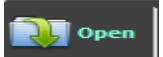
2.2. List View:

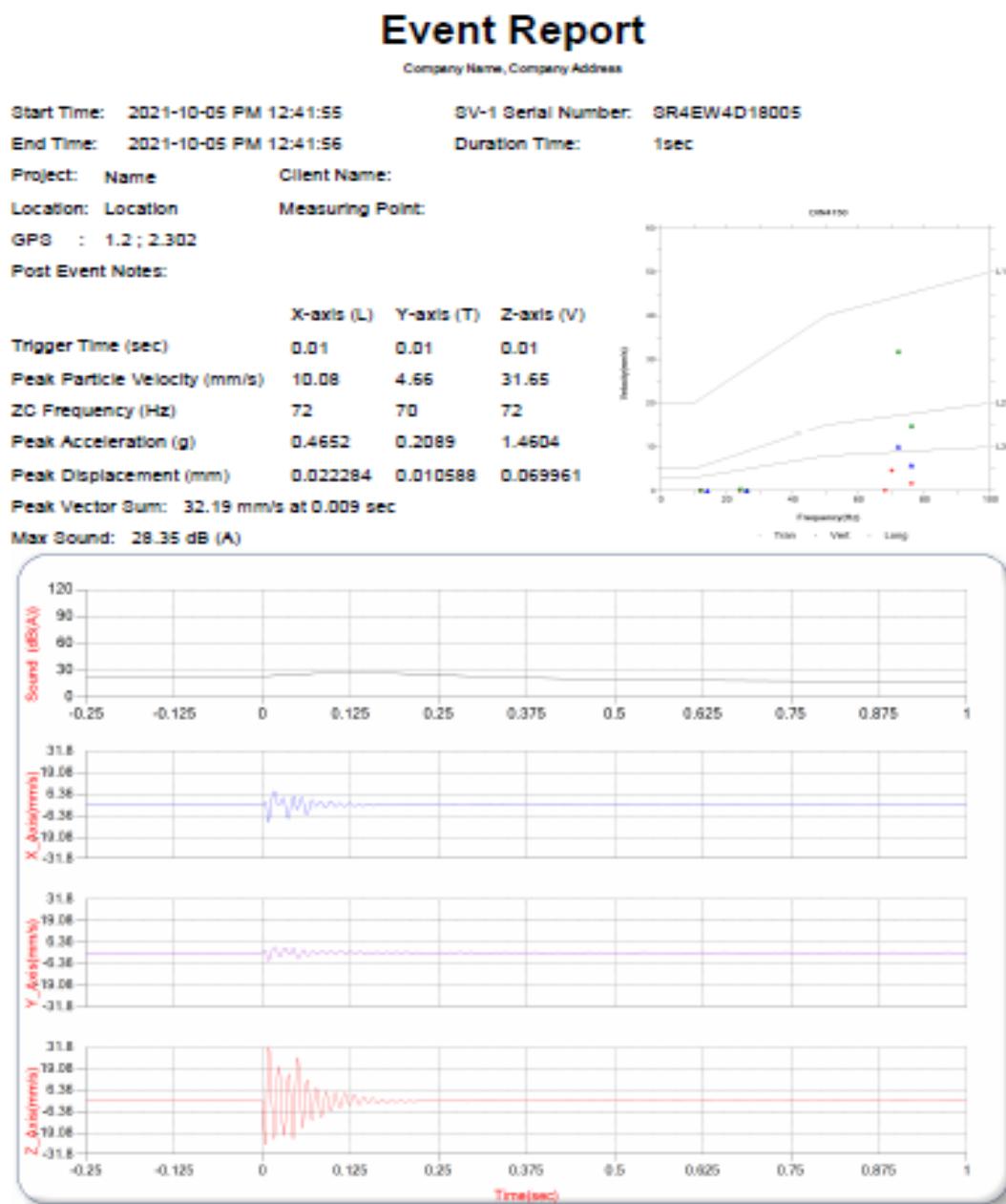
List View is used to show Velocity peak hold of x, y, z, PVS , LMax(Sound) & Leq Avg(Sound)

When user select the folder where Blast files are stored, list view shows its values in right side.



3. Event Report:

When user double click of list view file or click on  or click on  event report window will open which shows Event Report details of X, Y, Z axis values & charts showing the sound and vibration analysis of the selected



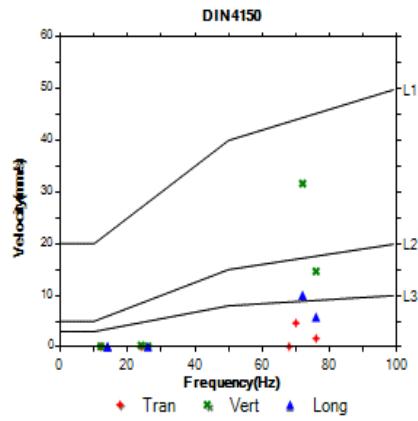
Scale: 0.125 sec/divide Amplitude Scale: Geo (12.72mm/s/divide) Mic (30.0 dB (A)/divide)
Created: 2021-10-21 PM 10:26:37(Firmware Ver 3.1.401; Software Ver 3.0.5.1), Copyrighted Svb Software Technologies Pvt Ltd

4. Standards:



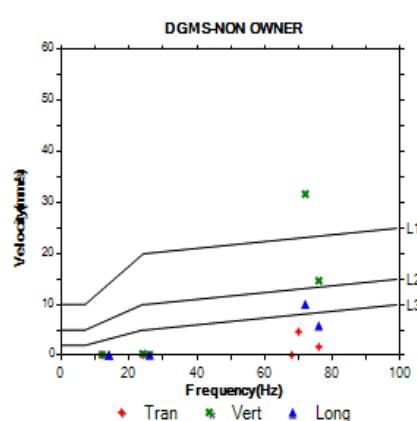
When user click on **Total Ev** button, on the right side of event report as shown in 10 Freq-vel graph plot is shown with the corresponding standards .In dropdown 3 standards (DIN4150, DGMS-Non Owner, and DGMS-Owner)

4.1. DIN-4150:



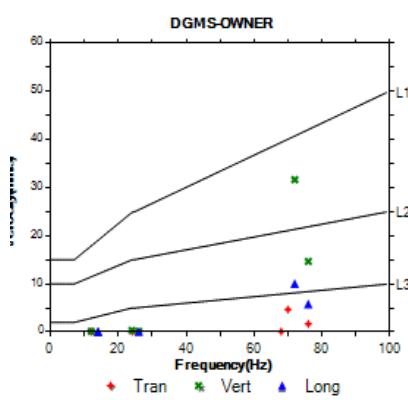
Permissible PPV(mm/s) as per DIN			
Type of structure		Dominant excitation	
		<10Hz	10-45Hz
L1	Industrial buildings	20	40
L2	Domestic houses/Structure	5	15
L3	objects of historical importance & Sensitive structures	3	8
			10

4.2. DGMS-NON Owner:



Permissible PPV(mm/s) as per DGMS-Non Owner			
Type of structure		Dominant excitation	
		<8Hz	8-25Hz
L1	Industrial buildings	10	20
L2	Domestic houses/Structure	5	10
L3	objects of historical importance & Sensitive structures	2	5
			10

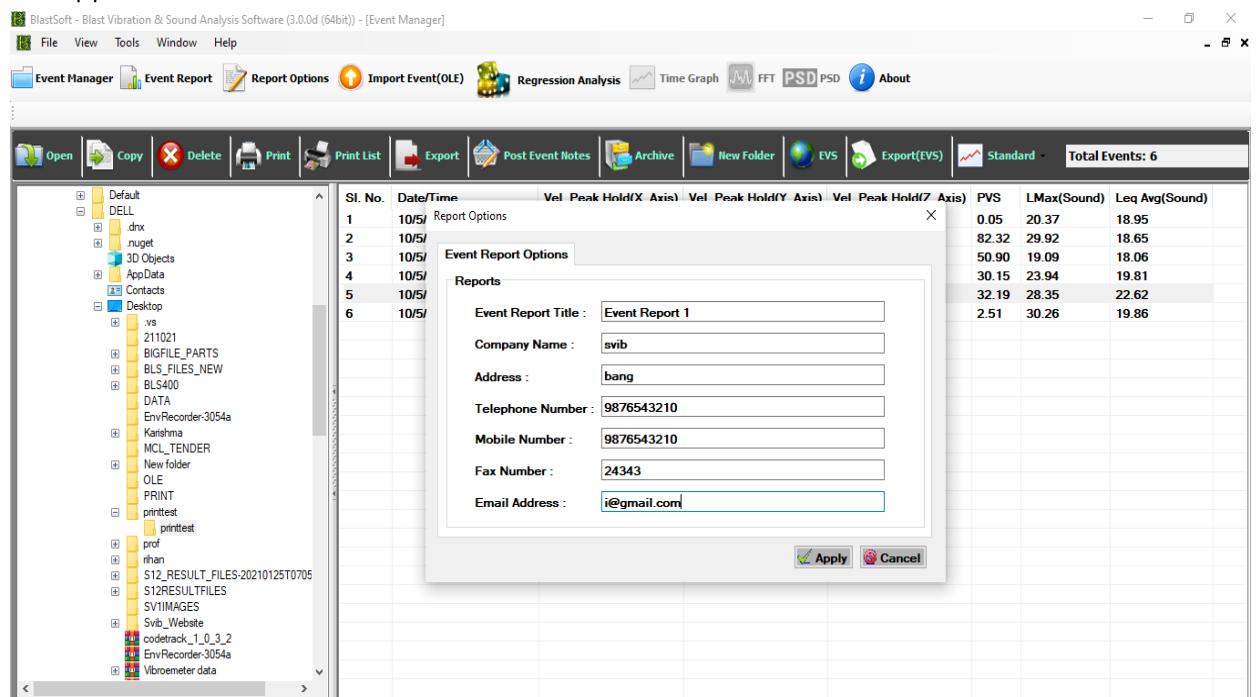
4.3. DGMS-Owner:



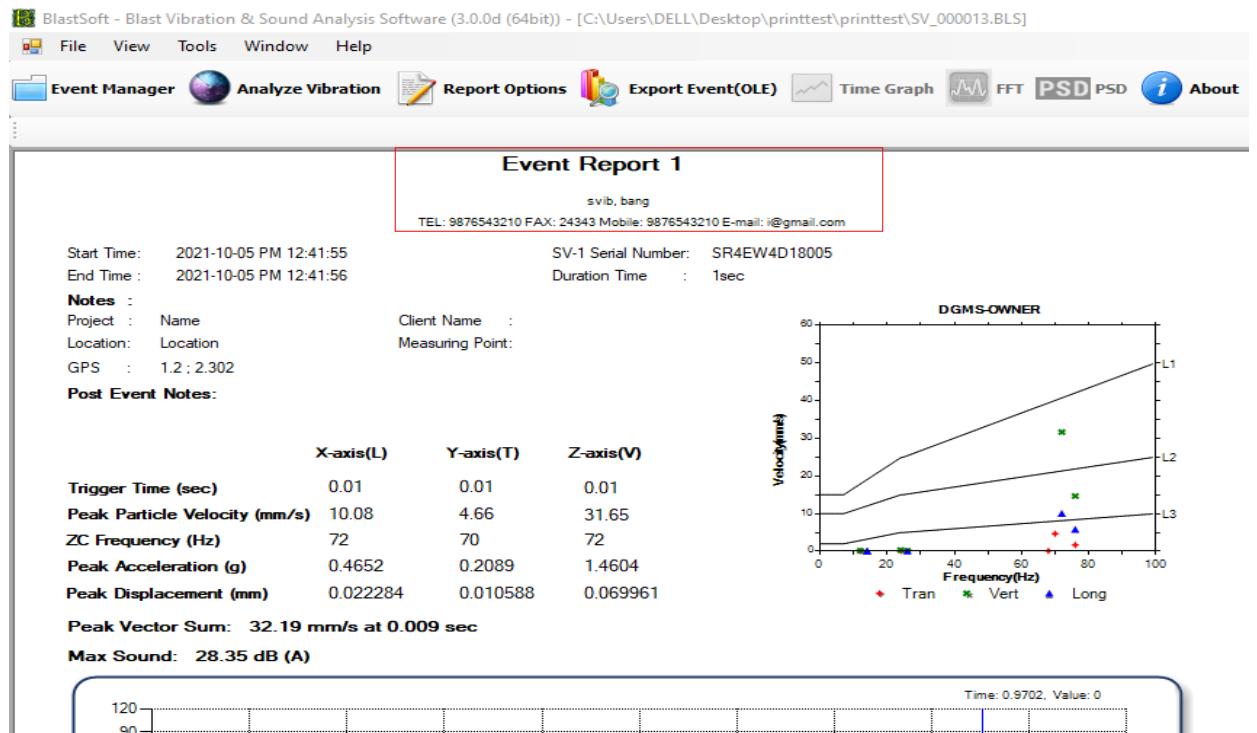
Permissible PPV(mm/s) as per DGMS-Owner			
Type of structure		Dominant excitation	
		<8Hz	8-25Hz
L2	Domestic houses	10	15
L1	Industrial buildings	15	25
L3	objects of historical importance & Sensitive structures	2	5
			10

5. Report Options:

When user selects a file from list View & clicks on  button following window will appear.

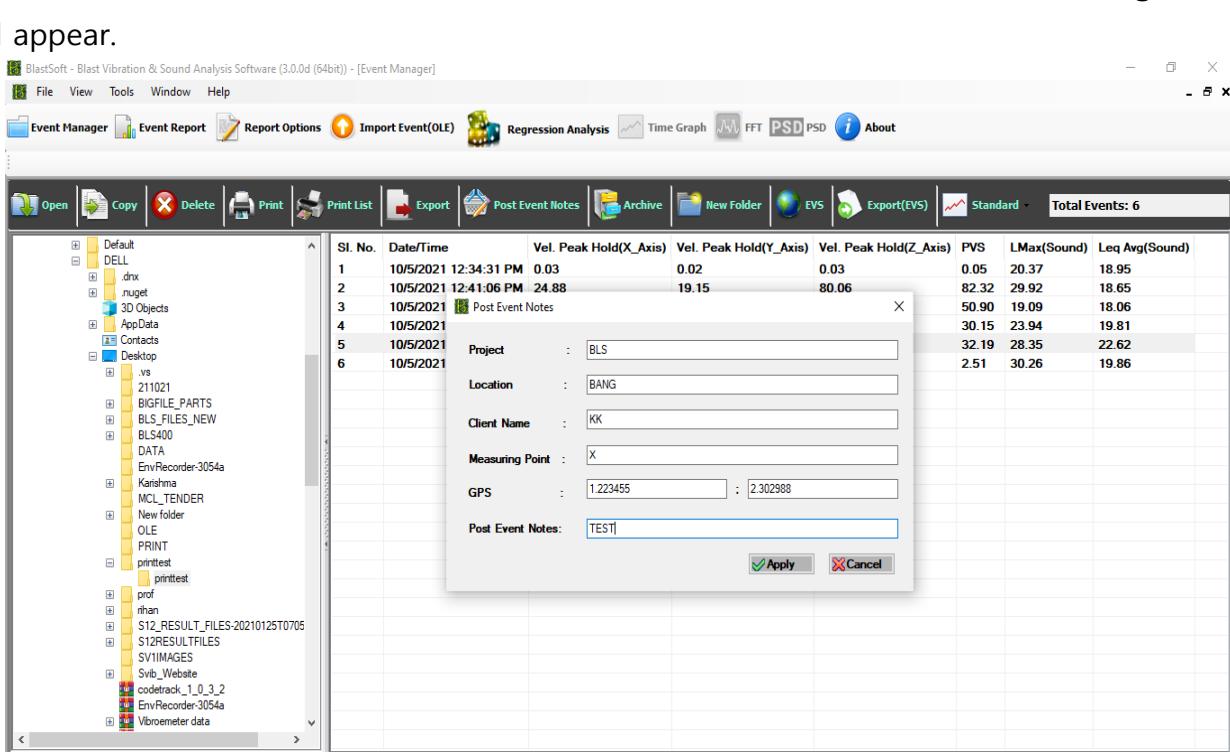


User need to enter all the fields. Then click on Apply button. That user options will get reflected into event report.

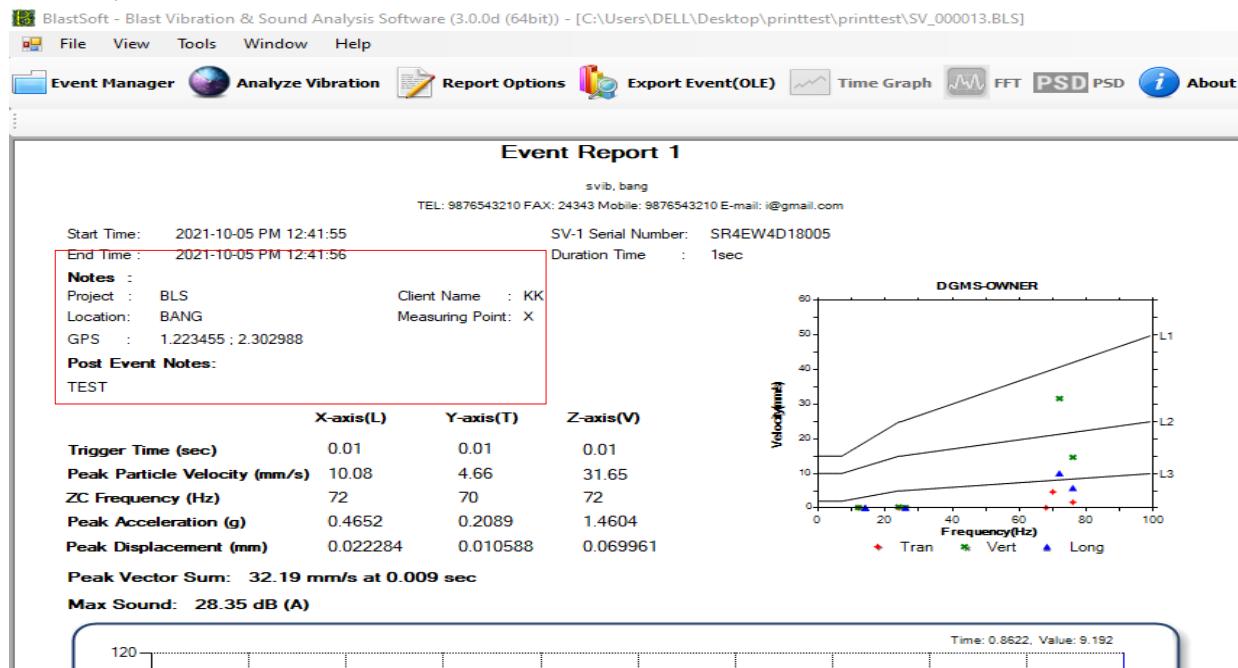


6. Post Event Notes:

When user selects a file from event list & clicks on  button following window will appear.



User need to enter all the fields. Then click on Apply button. That user options will get reflected into event report

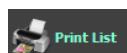


7. Print:



When user clicks on or (Inside the event report form) following window will appear. User can take print of the event report or it can save as pdf file also.

8. Print List:



When user clicks on button following window will appear. There user can take print of the list view or it can export to .csv file.

	Peak Hold(Z_Axis)	PVS	LMax(Sound)	Leq Avg(Sound)
03	0.05	20.37	18.95	
06	82.32	29.92	18.65	
1.19	50.90	19.09	18.06	
3.33	30.15	23.94	19.81	
1.65	32.19	28.35	22.62	
51	2.51	30.26	19.86	

9. Export:



When user clicks on **Export** browser window will appear. User need to browse the location where that exported file need to save & click on OK. That file data will save to text file as below.

```
SV_000013_ASCII - Notepad
File Edit Format View Help
Blast Vibration & Sound Analysis

Exported Time: 10/22/2021 12:09:22 PM
File Name : SV_000013
Blast PDA Version : 3.0.5.1
PDA Serial Number : SR4EW4D18005
Firmware Version : V3.1 401; 4ch; MaxFS:16384Hz;
Analyzing Library Version : 2.0.2
Start Time : 2021-10-05 PM 12:34:31
End Time : 2021-10-05 PM 12:34:32
Duration : 1 sec
Integration Time : 0.125 sec
Sample Rate : 1024 sps
dB Reference : Acc: 1E-05      Vel: 1E-09      Disp: 1E-12

Notes
Project : BLS
Location : BANG
Client : KK
Measuring Point : X
GPS : 1.223455 ; 2.302988
Post Event Notes
TEST

Transducer Options
Sensitivity(mV/g): Ch1: 800 Ch2: 800 Ch3: 800
Amp Gain : Ch1: 2 Ch2: 2 Ch3: 2
Comp Gain : Ch1: 1 Ch2: 1 Ch3: 1

Analyzing Options
Integral : Ch1: ACC Ch2: ACC Ch3: ACC
Weight : Ch1: HORIZONTAL Ch2: FLAT Ch3: VERT
Average : Ch1: 2 Ch2: 2 Ch3: 2

Result
< >
Ln 1, Col 1 | 100% | Windows (CRLF) | UTF-8
```

10. EVS:



When user click on EVS button by selecting one file from list view, EVS Window will appear. User can take its print also.

Event Report 1

svlb, bang

TEL: 9876543210 FAX: 24343 Mobile: 9876543210 E-mail: i@gmail.com

Start Time: 2021-10-05 PM 12:41:55 SV-1 Serial Number: SR4EW4D18005

End Time: 2021-10-05 PM 12:41:56 Duration Time: 1sec

Project: BLS

Client Name: KK

Location: BANG

Measuring Point: X

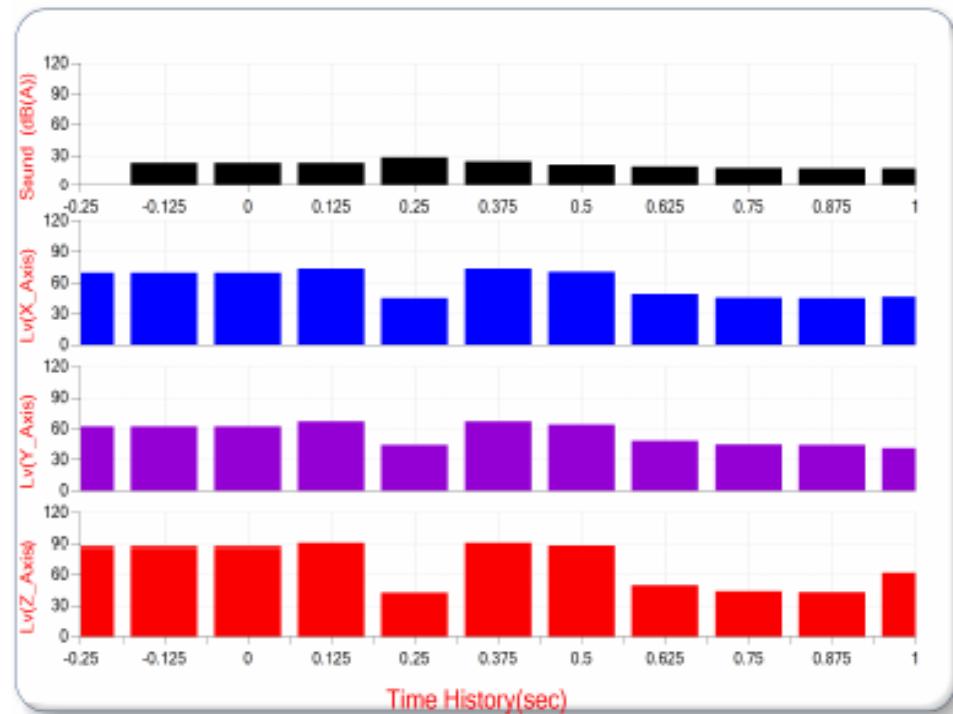
GPS : 1.223455 ; 2.302988

Post Event Notes:

Sound (dB(A))	Leq	LMax	LMin	L1	L5	L10	L50	L90	L95	L99
	22.62	28.35	17.78	28.35	28.35	28.35	19.03	17.78	17.78	17.78

Vibration Vert Axis (dB)	Leq	LMax	LMin	L5	L10	L50	L90	L95	L99
	80.48	90.91	42.50	90.25	87.27	51.42	43.67	42.71	42.50

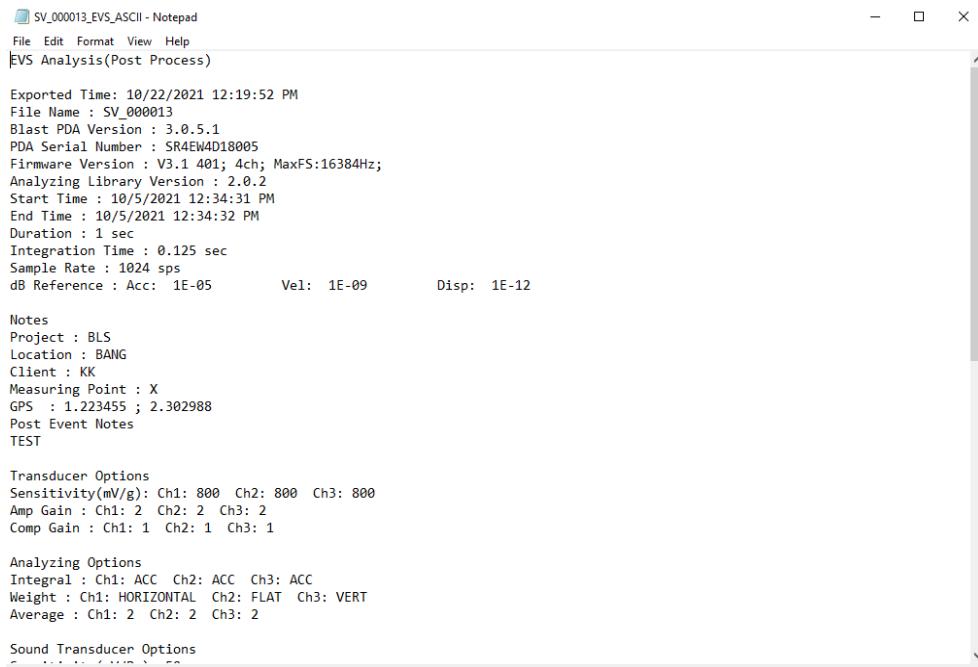
Time History:



Printed: 2021-10-22 PM 12:13:32(Firmware Ver 3.1 401; Software Ver 3.0.5.1), Copyrighted Svilb Software Technologies Pvt Ltd

11. Export EVS:

Click on  icon to export the EVS to text file of the selected file.



SV_000013_EVS_ASCII - Notepad

File Edit Format View Help

EVS Analysis(Post Process)

Exported Time: 10/22/2021 12:19:52 PM
File Name : SV_000013
Blast PDA Version : 3.0.5.1
PDA Serial Number : SR4EW4D18005
Firmware Version : V3.1 401; 4ch; MaxFS:16384Hz;
Analyzing Library Version : 2.0.2
Start Time : 10/5/2021 12:34:31 PM
End Time : 10/5/2021 12:34:32 PM
Duration : 1 sec
Integration Time : 0.125 sec
Sample Rate : 1024 sps
dB Reference : Acc: 1E-05 Vel: 1E-09 Disp: 1E-12

Notes
Project : BLS
Location : BANG
Client : KK
Measuring Point : X
GPS : 1.223455 ; 2.302988
Post Event Notes
TEST

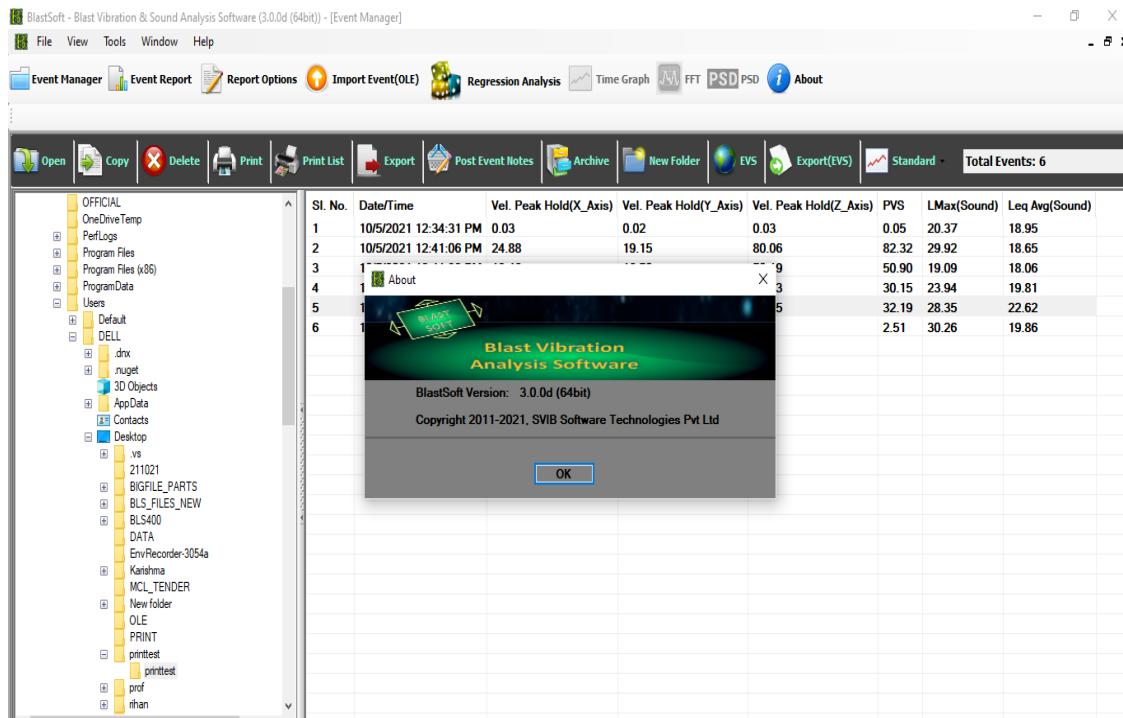
Transducer Options
Sensitivity(mV/g): Ch1: 800 Ch2: 800 Ch3: 800
Amp Gain : Ch1: 2 Ch2: 2 Ch3: 2
Comp Gain : Ch1: 1 Ch2: 1 Ch3: 1

Analyzing Options
Integral : Ch1: ACC Ch2: ACC Ch3: ACC
Weight : Ch1: HORIZONTAL Ch2: FLAT Ch3: VERT
Average : Ch1: 2 Ch2: 2 Ch3: 2

Sound Transducer Options

12. About:

Click on About Icon to view the version of project.



*****END*****