

**HART Findings**

|                                |             |                 |
|--------------------------------|-------------|-----------------|
| LV Hypertrophy                 | LVH         | Absent          |
| Dilated Cardiomyopathy         | DCM         | Absent          |
| <b>RV Enlargement</b>          | <b>RVE</b>  | <b>Mild</b>     |
| <b>LA Enlargement</b>          | <b>LAE</b>  | <b>Abnormal</b> |
| <b>RA Enlargement</b>          | <b>RAE</b>  | <b>Mild</b>     |
| LV Wall Motion Abn.            | WMA         | Absent          |
| <b>LV Systolic Dysfunction</b> | <b>LVSD</b> | <b>Mild</b>     |
| Impaired Relaxation            | DDIM        | Absent          |
| AV Stenosis                    | AS          | Absent          |
| MV Stenosis                    | MS          | Absent          |
| AV Insufficiency               | AR          | Absent          |
| <b>MV Insufficiency</b>        | <b>MR</b>   | <b>Abnormal</b> |
| <b>TV Insufficiency</b>        | <b>TR</b>   | <b>Abnormal</b> |
| Pulm. Hypertension             | PH          | Absent          |
| <b>HART Summary</b>            | <b>HART</b> | <b>Abnormal</b> |

**Myocardial Infarction or Ischemia**

|               |        |        |
|---------------|--------|--------|
| Ischemic ST-T | ISTT   | Absent |
| Non-STEMI     | NSTEMI | Absent |
| STEMI         | STEMI  | Absent |
| Old MI        | OldMI  | Absent |

**ECG Findings**

|                          |            |                            |
|--------------------------|------------|----------------------------|
| <b>Rhythm</b>            | <b>Rhy</b> | <b>Atrial Fibrillation</b> |
| <b>Premature Beats</b>   | <b>PC</b>  | <b>PAC</b>                 |
| <b>PR interval</b>       | <b>PR</b>  | <b>Uninterpretable</b>     |
| QT interval              | QT         | Normal                     |
| <b>Axis Deviation</b>    | <b>AXD</b> | <b>Leftward Axis</b>       |
| <b>Rwave Abnormality</b> | <b>RWA</b> | <b>Poor Rwave Prog.</b>    |
| QRS Voltage              | QRSV       | Normal                     |
| B. Branch Block          | BBB        | Absence                    |
| <b>Fascicular Block</b>  | <b>FAB</b> | <b>Bord. LAFB</b>          |
| ST-T deviation           | STTd       | Absence                    |
| Vent. Hypertrophy        | VH         | Absence                    |
| Atrial Abnormality       | AE         | Absence                    |
| ECG Signal Quality       | ECGq       | Good Quality               |
| <b>ECG Summary</b>       | <b>ECG</b> | <b>Abnormal ECG</b>        |

**PCG Findings**

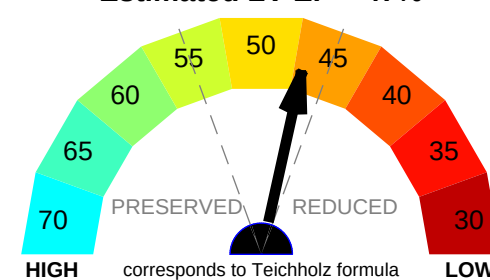
|                    |                 |
|--------------------|-----------------|
| Systolic Murmur    | Absence         |
| Diastolic Murmur   | Absence         |
| Ejection Click     | Absence         |
| Opening Snap       | Absence         |
| 3rd Sound          | Absence         |
| 4th Sound          | Absence         |
| S1 Wide            | Normal          |
| S2 Wide            | Normal          |
| Wheeze             | Absence         |
| <b>Artifact</b>    | <b>Artifact</b> |
| PCG Signal Quality | Good Quality    |
| PCG Summary        | Normal          |

**MCG Findings**

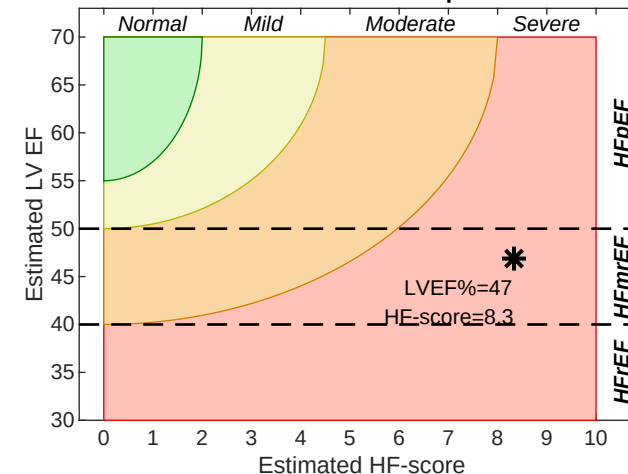
|                           |                         |
|---------------------------|-------------------------|
| EMAT (Q-MitralClosure)    | Normal                  |
| PEP - Pre Ejection        | Normal                  |
| LVET - Vent. Ejection     | Normal                  |
| SPI - Systolic Perf.      | Normal                  |
| MPI - Myocardial Perf.    | Normal                  |
| <b>MCG Signal Quality</b> | <b>Passable Quality</b> |
| MCG Summary               | Normal                  |

**Patient General Data**

|                                 |            |
|---------------------------------|------------|
| DOB                             | 1958-03-10 |
| Age [year]                      | 64         |
| Gender                          | MALE       |
| Race                            | Caucasian  |
| Height [cm]                     | 171        |
| Weight [kg]                     | 90         |
| <b>BMI [kg/m<sup>2</sup>]</b>   | <b>31</b>  |
| BSA [m <sup>2</sup> ]           | 2.1        |
| CBSI [m+1/5kg <sup>0.27</sup> ] | 2.4        |
| Waist Size [cm]                 | 113        |
| Hip Size [cm]                   | 111        |
| <b>Waist/hip ratio</b>          | <b>1</b>   |
| Sys. BP [mmHg]                  | 126        |
| Dia. BP [mmHg]                  | 71         |

**Estimated LV EF = 47%**

| Heart Failure          | LVEF%        | HF-score          |
|------------------------|--------------|-------------------|
| Unlikely               | > 55%        | < 1.8 / 10        |
| Consider HFpEF         | > 50%        | > 2.0 / 10        |
| <b>Consider HFmrEF</b> | <b>~ 47%</b> | <b>~ 8.3 / 10</b> |
| Consider HFrEF         | < 40%        | -                 |

**Warning: -****Heart Failure Map**

| Algorithm | LVH | LAE   | WMA | DDIM | AS  | PH  | AFib  | Score |
|-----------|-----|-------|-----|------|-----|-----|-------|-------|
| HF-score  | + 0 | + 3.7 | + 0 | + 0  | + 0 | + 0 | + 4.6 | = 8.3 |

SUMMARY

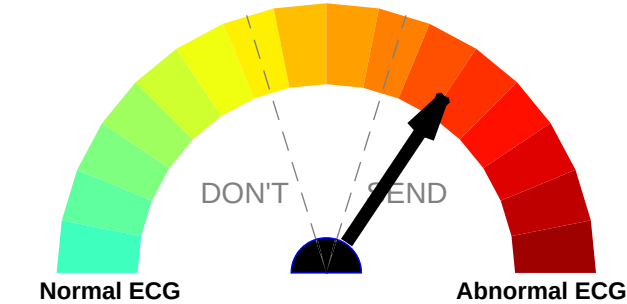
|                                        |                     |
|----------------------------------------|---------------------|
| HART Summary                           | Abnormal            |
| Heart Structure                        | Abnormal            |
| Heart Function                         | Mildly Abnormal     |
| Heart Valves                           | Abnormal            |
| Heart Failure                          | Consider HFmrEF     |
| Rhythm                                 | Atrial Fibrillation |
| ECG Summary                            | Abnormal ECG        |
| PCG Summary                            | Normal              |
| MCG Summary                            | Normal              |
| Duration used for measurements: 183.3s |                     |

CPA Warnings

Wrong sensor direction or patient not in supine position - retest recommended! (SIT)

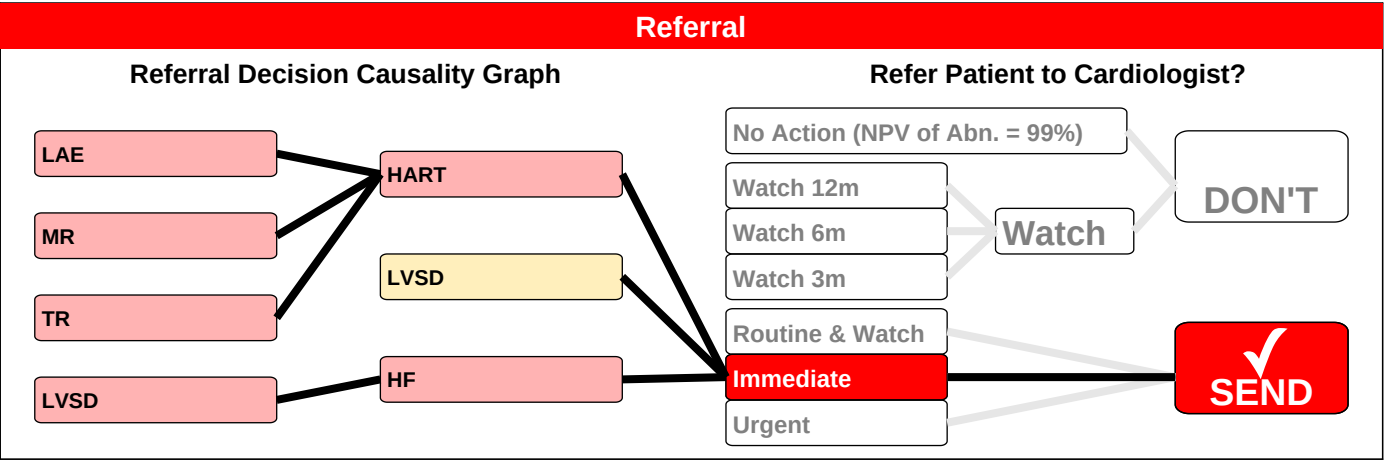
CPA version: 2021\_210510-220804

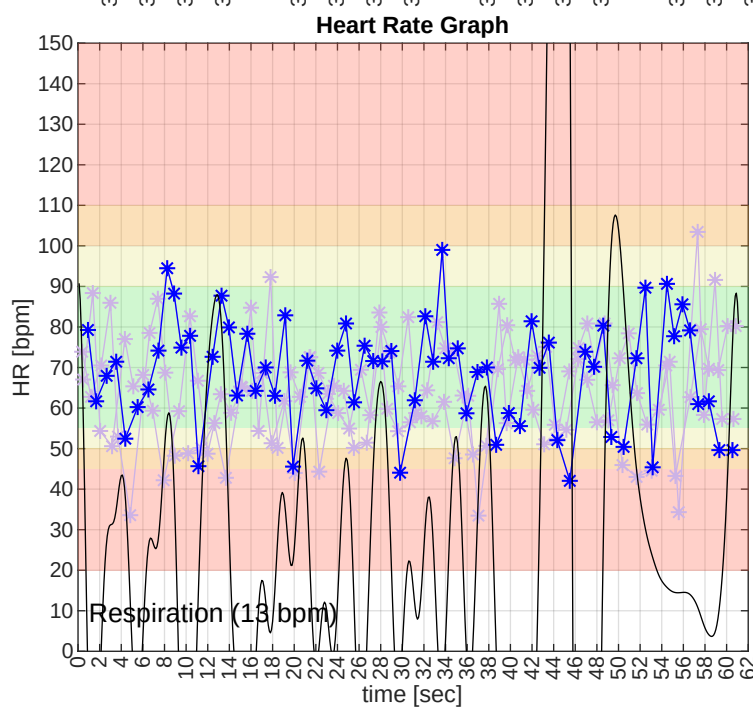
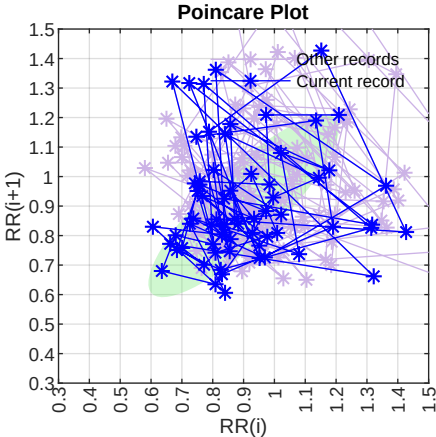
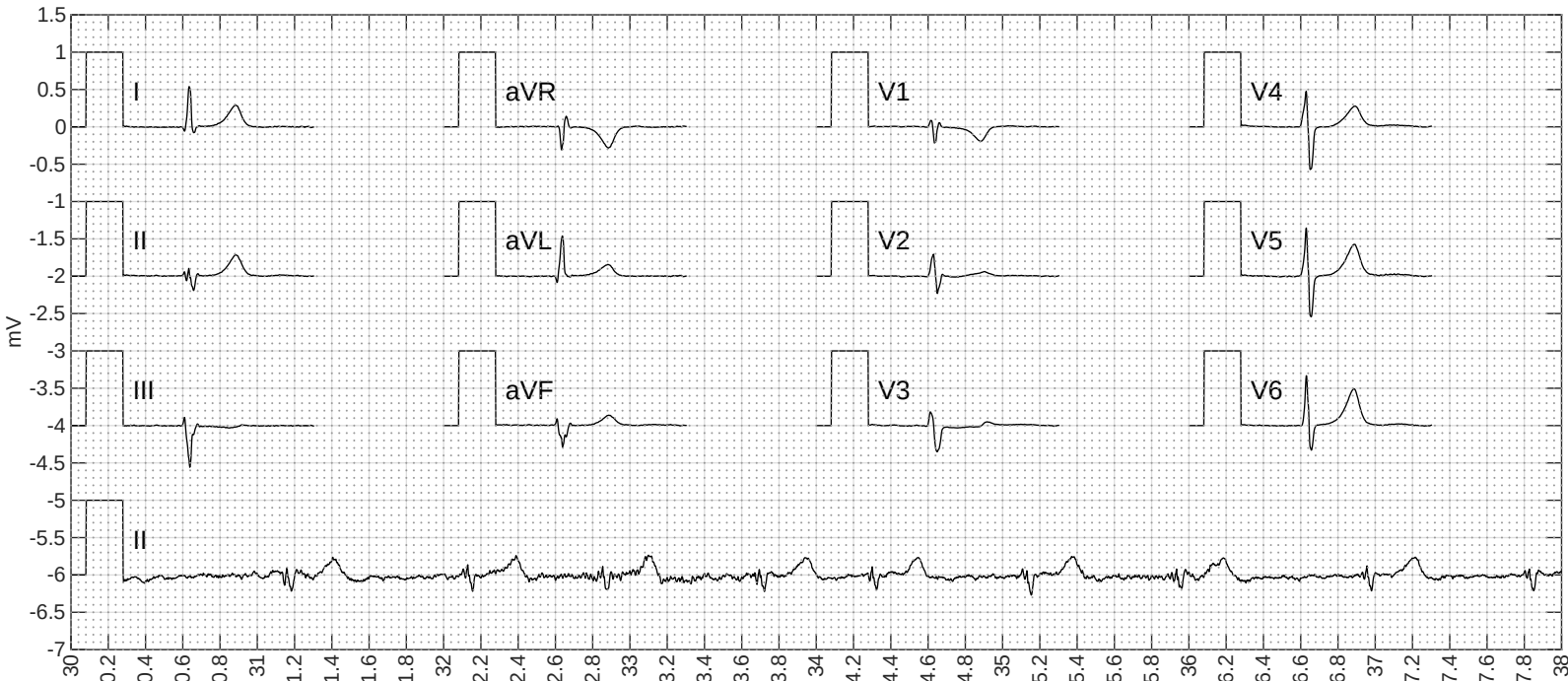
General Heart Health State



Decision Support Warning

Decision support is based solely on the CHART findings. The final referral decision lies with the clinician who shall also consider the patient's symptoms and history.

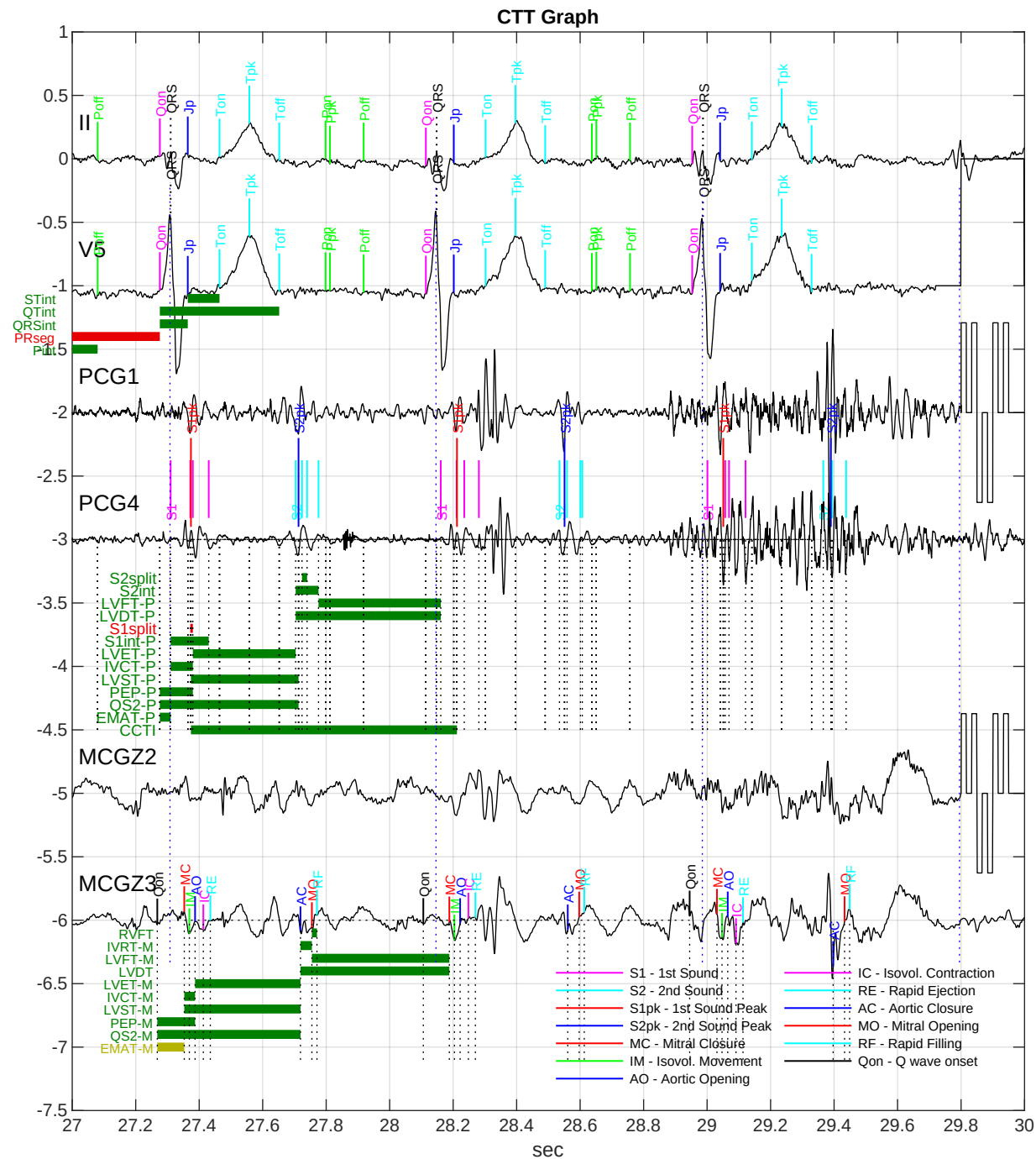




| ECG Global Measurements |      | Virtual Scale |      |     |      |
|-------------------------|------|---------------|------|-----|------|
| Heart Rate [bpm]        | 69   | 20            | 50   | 100 | 200  |
| median RR [s]           | 0.84 | 0.3           | 0.6  | 1.3 | 3    |
| RR std [ms]             | 192  |               | 0    | 100 | 1000 |
| RMSSD [ms]              | 263  |               | 0    | 100 | 1000 |
| PNN50 [%]               | 83   |               | 0    | 55  | 100  |
| LF/HF (0.15Hz)          | 1.2  | 0             | 0.5  |     | 6    |
| QRS axis [deg]          | -34  | -180          | -90  | 0   | 90   |
| PQ interval [ms]        | 316  | 50            | 120  | 225 | 360  |
| PRc (Soliman) [ms]      | 317  | 40            | 120  | 225 | 400  |
| P interval [ms]         | 120  | 0             | 70   | 150 | 200  |
| P axis [deg]            | 57   | -180          | 0    | 85  | 180  |
| P term.force [mVms]     | 0    |               | 0    | 6   | 150  |
| QT interval [ms]        | 376  | 220           | 310  |     | 500  |
| QTc (fram)              | 401  | 300           | 350  |     | 470  |
| QTc-CHART               | 377  | 300           | 350  |     | 470  |
| JTc                     | 313  | 200           | 250  |     | 370  |
| QRS interval [ms]       | 88   |               | 0    | 120 | 200  |
| VAT                     | 34   |               | 0    | 50  | 100  |
| ST interval [ms]        | 100  | 0             | 50   |     | 170  |
| ST axis [deg]           | 19   | -180          | -30  |     | 105  |
| T axis [deg]            | 26   | -180          | -15  |     | 105  |
| Rsum (V1:V6) [uV]       | 2343 | 0             | 2300 |     | 8500 |
| Sok-Lyon [mV]           | 1.4  |               | 0    |     | 4.6  |
| Cornell Volt [mV]       | 0.89 |               | 0    |     | 2.8  |
| Lewis index [mV]        | 0.92 |               | 0    |     | 1.7  |
| LVH Score               | 282  |               | 0    |     | 500  |
| RVH Score               | 1.7  |               | 0    |     | 3.4  |

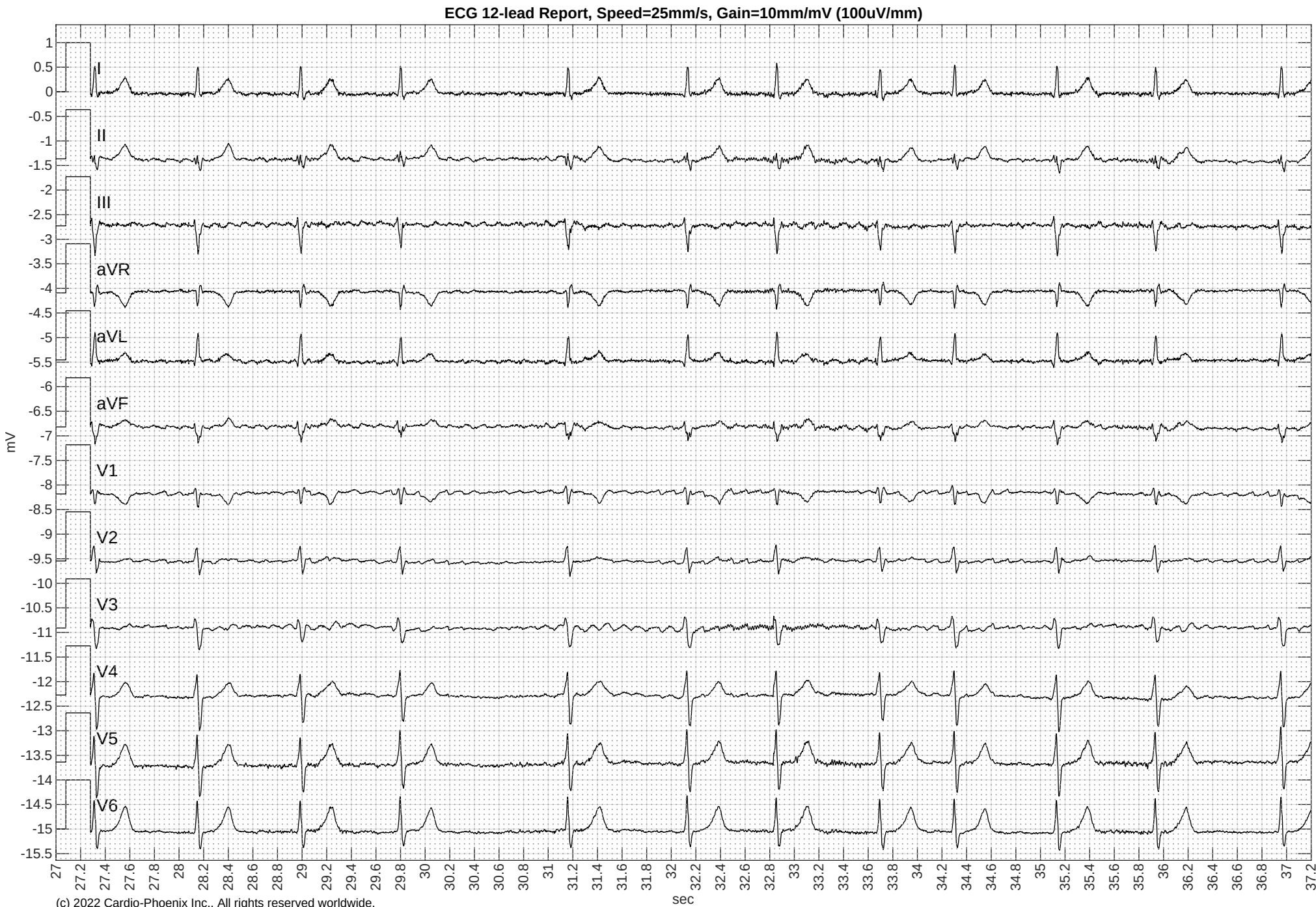
| ECG Findings       |                     |
|--------------------|---------------------|
| Rhythm             | Atrial Fibrillation |
| Premature Beats    | PAC                 |
| PR interval        | Uninterpretable     |
| QT interval        | Normal              |
| Axis Deviation     | Leftward Axis       |
| Rwave Abnormality  | Poor Rwave Prog.    |
| QRS Voltage        | Normal              |
| B. Branch Block    | Absence             |
| Fascicular Block   | Bord. LAFB          |
| ST-T deviation     | Absence             |
| Vent. Hypertrophy  | Absence             |
| Atrial Abnormality | Absence             |
| ECG Signal Quality | Good Quality        |
| ECG Summary        | Abnormal ECG        |

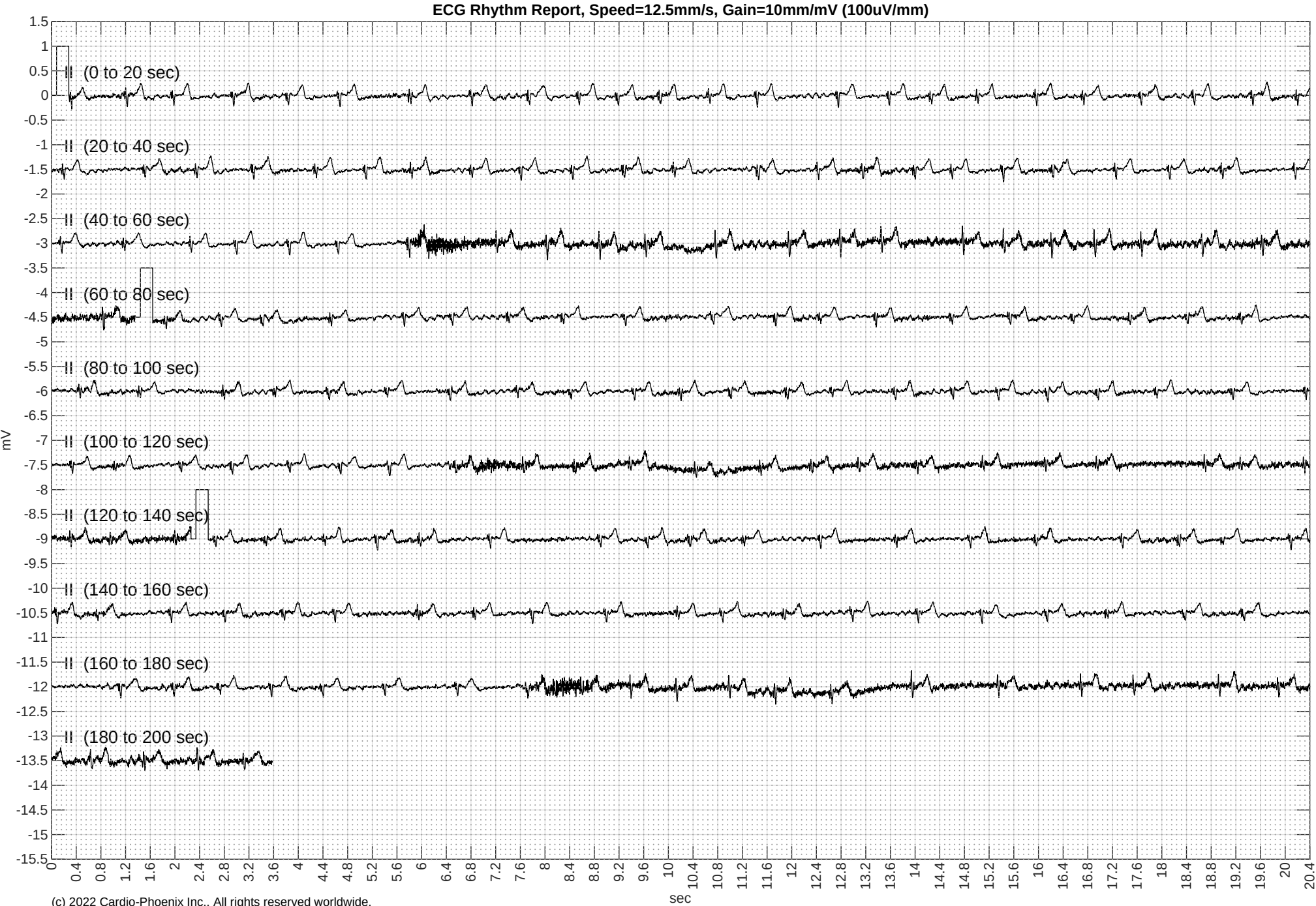
| Myocardial Infarction or Ischemia |                              |
|-----------------------------------|------------------------------|
| Type                              | Consider Ant Inf Lat Pos Sep |
| Ischemic ST-T                     | Absent                       |
| Non-STEMI                         | Absent                       |
| STEMI                             | Absent                       |
| Old MI                            | Absent                       |



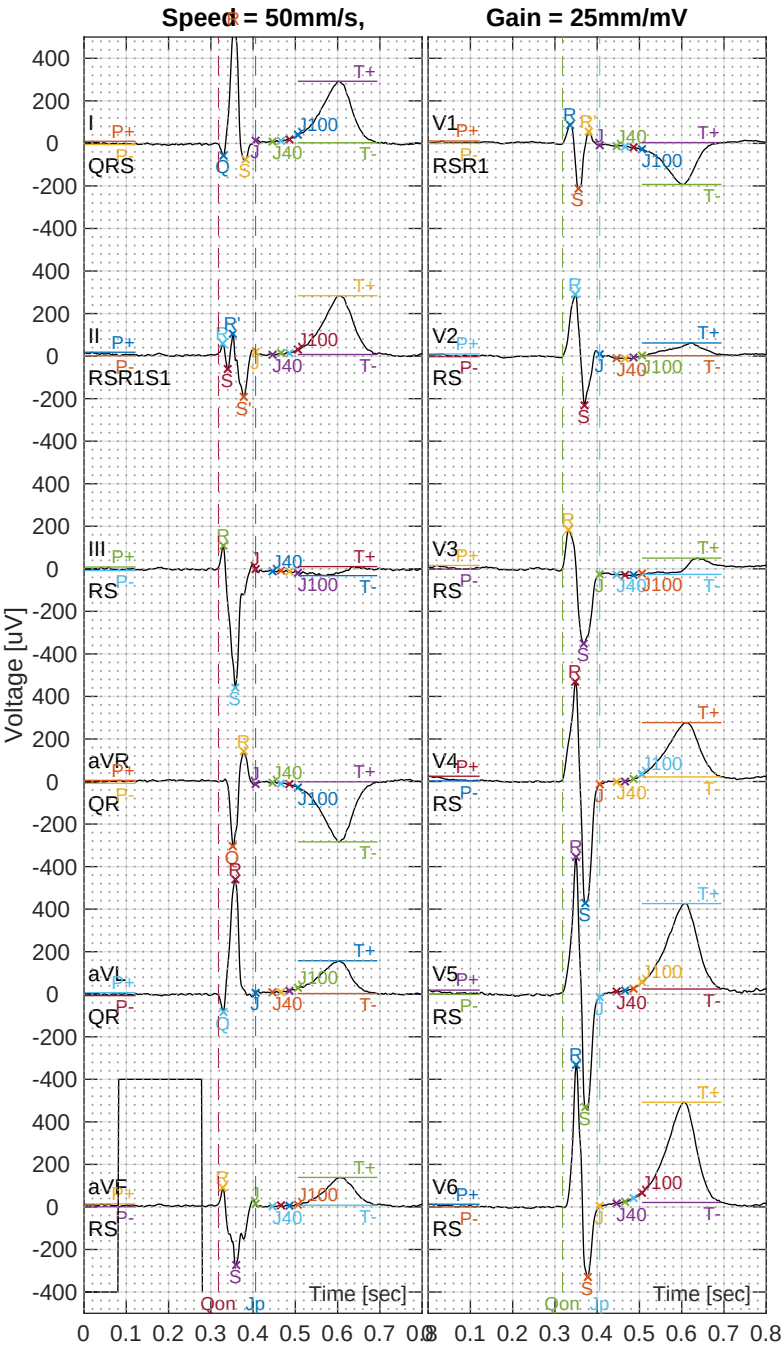
| PCG STI Measurement      |     | Virtual Scale |     |      |      |
|--------------------------|-----|---------------|-----|------|------|
| PCG CCTI [ms]            | 840 | 300           | 600 | 1200 | 3000 |
| PCG EMAT [ms]            | 48  |               | 0   | 79   | 170  |
| PCG QS2 [ms]             | 437 |               | 200 | 492  | 600  |
| PCG PEP [ms]             | 122 |               | 0   | 146  | 250  |
| PCG LVST [ms]            | 339 | 150           | 292 | 387  | 500  |
| PCG IVCT [ms]            | 74  |               | 20  | 84   | 140  |
| PCG LVET [ms]            | 289 | 100           | 237 | 337  | 450  |
| S1 interval [ms]         | 120 |               | 60  | 128  | 150  |
| S1 split [ms]            | 22  | 0             | 15  | 44   | 70   |
| PCG LVDT [ms]            | 484 | 150           | 328 | 815  | 1100 |
| PCG LVFT [ms]            | 412 | 130           | 300 | 706  | 1000 |
| S2 interval [ms]         | 72  |               | 30  | 80   | 120  |
| S2 split [ms]            | 16  |               | 0   | 60   | 70   |
| PCG MPI (ivct+ivrt)/lvet | 498 |               | 50  | 704  | 1200 |
| PCG SPI (pep/lvet)       | 421 |               | 100 | 595  | 1300 |
| PCG QS2I (qs2+2.1HR)     | 587 |               | 400 | 614  | 700  |
| PCG PEPI                 | 150 |               | 60  | 175  | 300  |
| PCG LVETI                | 407 | 200           | 360 | 444  | 550  |
| PCG EMATc (emat/rr)      | 56  |               | 0   | 94   | 200  |
| Heart Rate [bpm]         | 71  | 20            | 50  | 100  | 200  |

| MCG STI Measurement      |     | Virtual Scale |     |     |      |
|--------------------------|-----|---------------|-----|-----|------|
| MCG EMAT [ms]            | 86  |               | 0   | 86  | 170  |
| MCG QS2 [ms]             | 450 |               | 200 | 500 | 600  |
| MCG PEP [ms]             | 120 |               | 0   | 140 | 250  |
| MCG LVST [ms]            | 364 | 150           | 310 | 460 | 500  |
| MCG IVCT [ms]            | 34  |               | 20  | 100 | 140  |
| MCG LVET [ms]            | 330 | 100           | 250 | 390 | 450  |
| MCG LVDT [ms]            | 488 | 150           | 300 | 800 | 1100 |
| MCG LVFT [ms]            | 452 | 130           | 300 | 730 | 1000 |
| MCG IVRT [ms]            | 36  |               | 10  | 90  | 150  |
| MCG RVFT [ms]            | 16  |               | 0   | 110 | 200  |
| MCG MPI (ivct+ivrt)/lvet | 212 |               | 50  | 500 | 1200 |
| MCG SPI (pep/lvet)       | 363 |               | 100 | 520 | 1300 |
| MCG EMATc (emat/rr)      | 101 |               | 0   | 100 | 200  |
| MCG QS2I [ms+]           | 596 |               | 400 | 625 | 700  |
| MCG PEPI [ms+]           | 148 |               | 60  | 165 | 300  |
| MCG LVETI [ms+]          | 446 | 200           | 375 | 490 | 550  |
| MCG LVFTc [ms+]          | 532 | 300           | 390 | 650 | 800  |
| MCG S1int [ms]           | 58  |               | 30  | 128 | 220  |

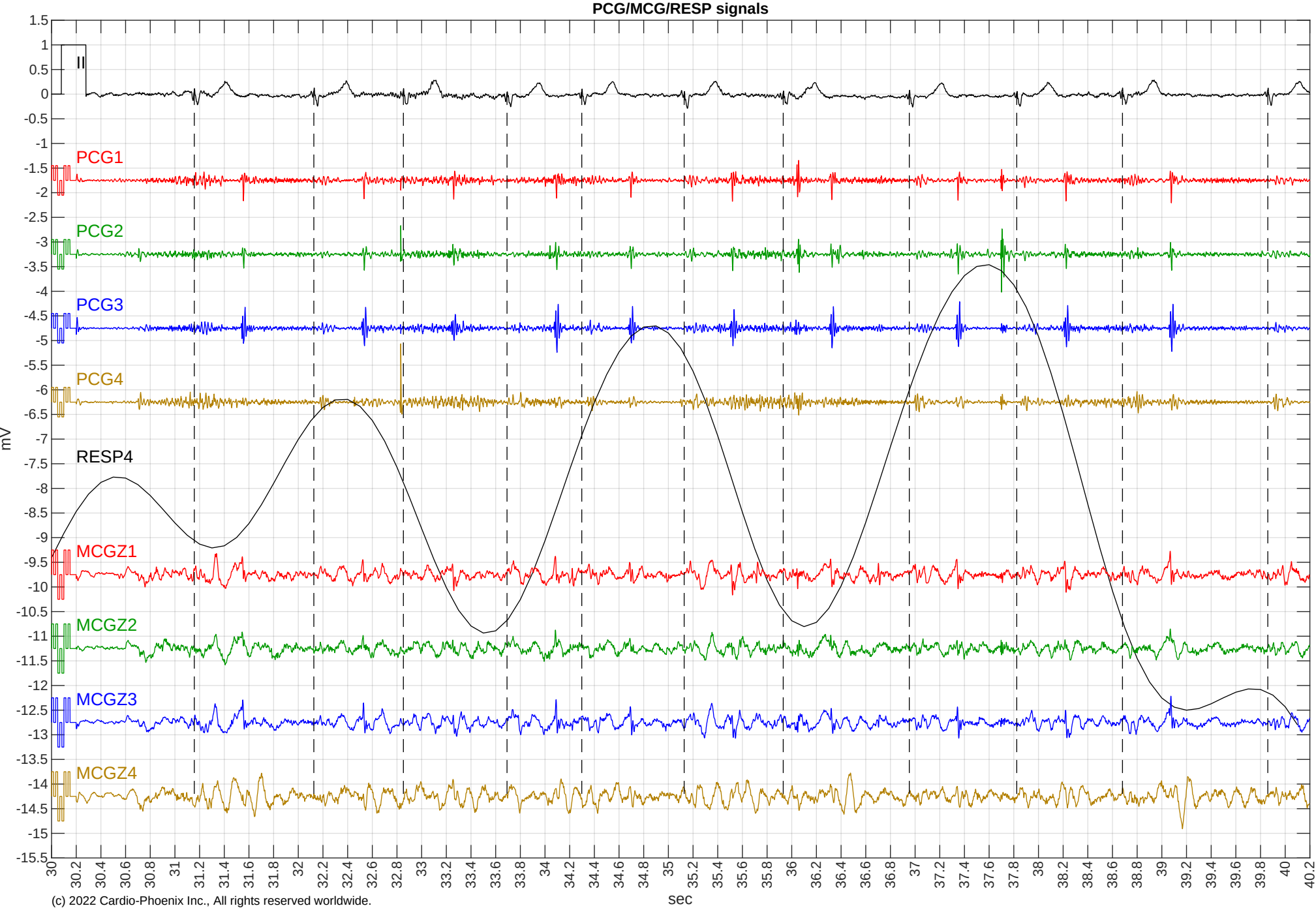




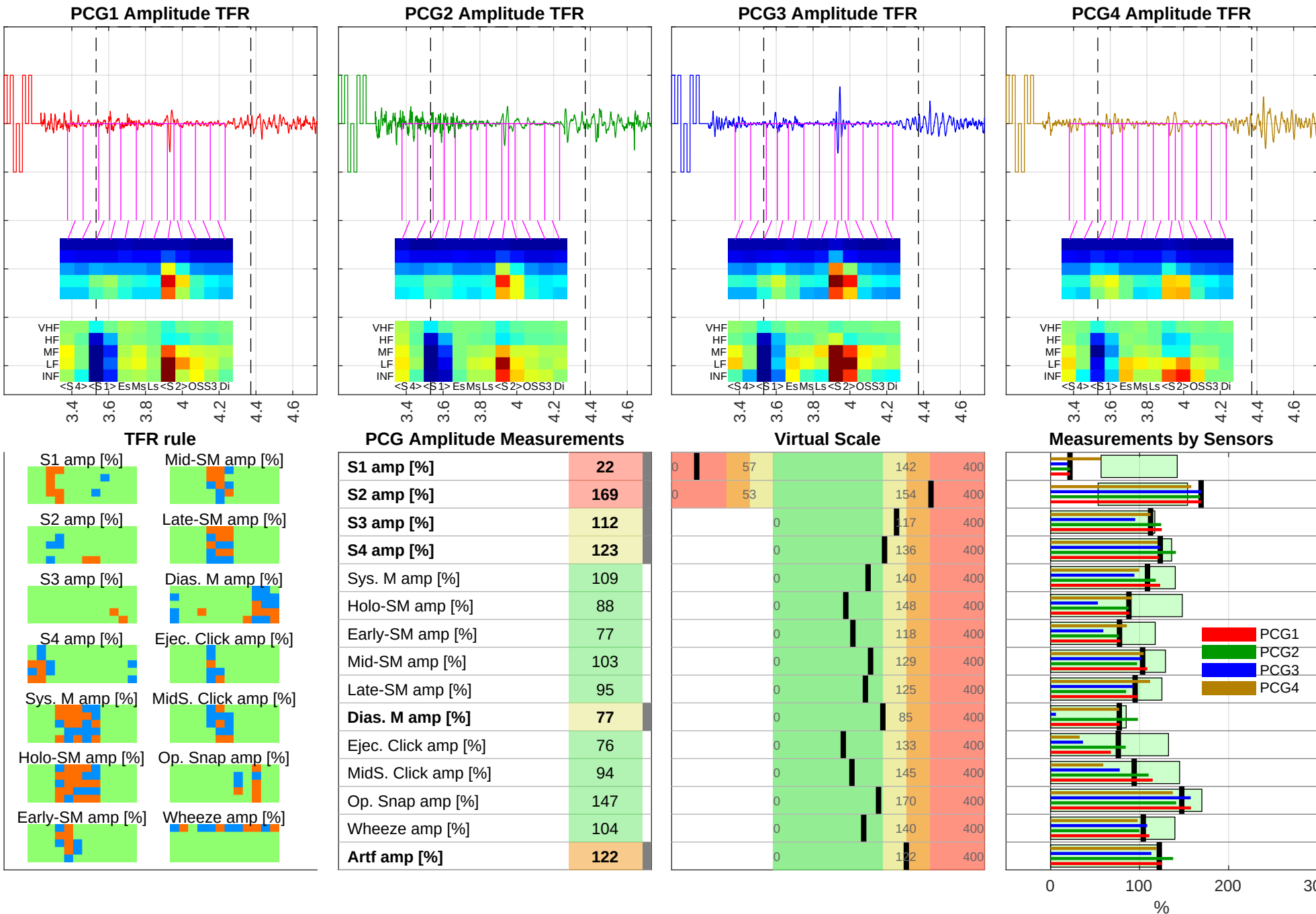


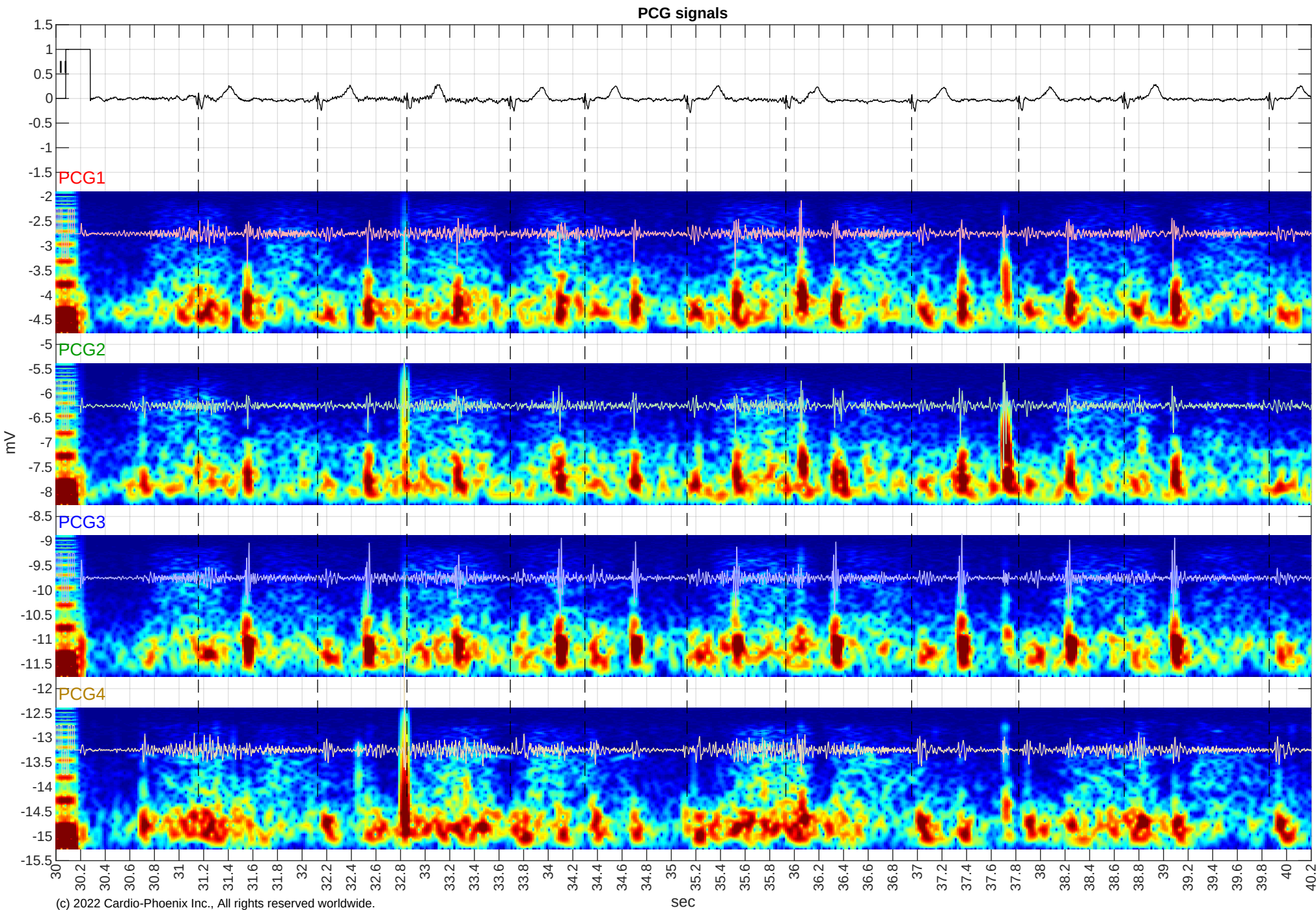


| 12-lead ECG Measurements |       |       |       |        |        |       |       |        |      |       |       |       |       | Virtual Scale        |      |
|--------------------------|-------|-------|-------|--------|--------|-------|-------|--------|------|-------|-------|-------|-------|----------------------|------|
| Meas                     | Unit  | I     | II    | III    | aVR    | aVL   | aVF   | V1     | V2   | V3    | V4    | V5    | V6    | 12-lead have 12 bars |      |
| Qamp                     | uV    | -57   | 0     | 0      | -304   | -83   | 0     | 0      | 0    | 0     | 0     | 0     | 0     | -4000                | 0    |
| Ramp                     | uV    | 540   | 59    | 109    | 142    | 540   | 91    | 87     | 290  | 184   | 469   | 645   | 668   | -800                 | 6000 |
| Samp                     | uV    | -75   | -61   | -559   | 0      | 0     | -273  | -213   | -232 | -352  | -571  | -530  | -329  | -6000                | 1500 |
| R'amp                    | uV    | 0     | 105   | 0      | 0      | 0     | 0     | 55     | 0    | 0     | 0     | 0     | 0     | -2000                | 4000 |
| S'amp                    | uV    | 0     | -192  | 0      | 0      | 0     | 0     | 0      | 0    | 0     | 0     | 0     | 0     | -3000                | 500  |
| Jamp                     | uV    | 13    | 20    | -1     | -12    | 6     | 15    | -9     | 9    | -26   | -13   | -13   | 5     | -1000                | 1200 |
| J40amp                   | uV    | 9     | 6     | -12    | -6     | 9     | 3     | -13    | -10  | -28   | -1    | 13    | 17    | -1000                | 1300 |
| J60amp                   | uV    | 12    | 15    | -8     | -10    | 10    | 7     | -15    | -12  | -29   | 0     | 17    | 24    | -1000                | 1500 |
| J80amp                   | uV    | 19    | 14    | -13    | -12    | 16    | 6     | -19    | -6   | -29   | 12    | 26    | 42    | -1300                | 1700 |
| J100amp                  | uV    | 41    | 31    | -19    | -28    | 30    | 11    | -27    | 3    | -22   | 35    | 58    | 67    | -1300                | 2000 |
| STslo0-80                | mV/s  | 0.09  | 0.07  | -0.01  | -0.09  | 0.06  | 0.03  | -0.17  | -0.2 | -0.13 | 0.18  | 0.37  | 0.4   | -30                  | 30   |
| STslo50-70mV/s           | 0.19  | 0.01  | -0.08 | -0.12  | 0.14   | -0.01 | -0.34 | 0.08   | -0.2 | 0.19  | 0.31  | 0.51  |       | -30                  | 30   |
| Rarea                    | mVs   | 9.05  | -2.51 | -12.51 | -2.73  | 10.81 | -7.08 | -1.67  | 2.55 | -7.83 | -4.24 | -0.34 | 5.2   | -400                 | 400  |
| QRSptp                   | uV    | 618   | 296   | 668    | 452    | 623   | 378   | 302    | 526  | 535   | 1047  | 1190  | 998   | 0                    | 8000 |
| P+amp                    | uV    | 10    | 18    | 8      | 5      | 8     | 15    | 11     | 10   | 16    | 25    | 19    | 13    | -200                 | 2000 |
| P-amp                    | uV    | -6    | 2     | -8     | -9     | -7    | 1     | 0      | -3   | -2    | 3     | -1    | 0     | -2000                | 200  |
| Parea                    | mVs   | 0.05  | 1.16  | -0.17  | -0.04  | 0.09  | 1.02  | 0.48   | 0.4  | 0.59  | 1.31  | 0.89  | 0.64  | -150                 | 150  |
| P+area                   | mVs   | 0.22  | 1.16  | 0.09   | 0.14   | 0.18  | 1.02  | 0.48   | 0.42 | 0.62  | 1.31  | 0.9   | 0.64  |                      | 150  |
| P-area                   |       | 0.16  | 0     | 0.26   | 0.18   | 0.1   | 0     | 0      | 0.01 | 0.03  | 0     | 0     | 0     |                      | 150  |
| T+amp                    | uV    | 292   | 284   | 11     | -1     | 157   | 139   | 4      | 62   | 50    | 277   | 426   | 492   |                      | 4000 |
| T-amp                    | uV    | 3     | 8     | -32    | -284   | 3     | 8     | -193   | 2    | -26   | 22    | 25    | 21    | -3000                | 200  |
| Tarea                    | mVs   | 25.19 | 24.74 | -2.49  | -23.84 | 13.9  | 12.13 | -15.94 | 5.52 | 0.91  | 26.41 | 39.14 | 43.47 | -200                 | 400  |
| T+area                   | mVs   | 25.19 | 24.74 | 0.22   | 0      | 13.9  | 12.13 | 0.03   | 5.52 | 2.71  | 26.41 | 39.14 | 43.47 |                      | 400  |
| T-area                   | mVs   | 0     | 0     | 2.71   | 23.84  | 0     | 0     | 15.97  | 0    | 1.8   | 0     | 0     | 0     |                      | 200  |
| Q/R                      | mV/mV | 0.11  | 0     | 0      | 2.14   | 0.15  | 0     | 0      | 0    | 0     | 0     | 0     | 0     |                      | 50   |
| R/S                      | mV/mV | 7.2   | 0.97  | 0.19   | 50     | 50    | 0.33  | 0.41   | 1.25 | 0.52  | 0.82  | 1.22  | 2.03  |                      | 50   |
| R/R'                     | mV/mV | 50    | 0.56  | 50     | 50     | 50    | 50    | 1.58   | 50   | 50    | 50    | 50    | 50    |                      | 50   |
| T/R                      | mV/mV | 0.54  | 4.81  | 0.1    | 0.01   | 0.29  | 1.53  | 0.05   | 0.21 | 0.27  | 0.59  | 0.66  | 0.74  |                      | 50   |
| Qint                     | ms    | 16    | 0     | 0      | 48     | 16    | 0     | 0      | 0    | 0     | 0     | 0     | 0     |                      | 200  |
| Rint                     | ms    | 36    | 16    | 16     | 28     | 58    | 16    | 26     | 42   | 32    | 42    | 44    | 48    |                      | 200  |
| R'int                    | ms    | 0     | 14    | 0      | 0      | 0     | 0     | 24     | 0    | 0     | 0     | 0     | 0     |                      | 150  |
| Sint                     | ms    | 30    | 12    | 72     | 0      | 0     | 58    | 28     | 32   | 56    | 46    | 44    | 38    |                      | 200  |
| S'int                    | ms    | 0     | 34    | 0      | 0      | 0     | 0     | 0      | 0    | 0     | 0     | 0     | 0     |                      | 150  |
| RWPT                     | ms    | 36    | 10    | 12     | 60     | 40    | 10    | 18     | 30   | 14    | 30    | 32    | 32    |                      | 200  |









| ECG Findings Legend |                       |                                     | ECG Measurements (Global) Legend |                                                  | PCG/MCG Findings Legend |                                        | HART Findings Legend |                                                   |
|---------------------|-----------------------|-------------------------------------|----------------------------------|--------------------------------------------------|-------------------------|----------------------------------------|----------------------|---------------------------------------------------|
| Abbr.               | Display               | Description                         | Display                          | Description                                      | Abbr.                   | Description                            | Abbr.                | Description                                       |
| Rhy                 | Rhythm                | Heart Rhythm                        | Heart Rate                       | Heart Rate Mean Value                            | SM                      | General Systolic Murmur                | LVH                  | Left Ventricular Hypertrophy                      |
| PC                  | Premature Beats       | Premature Beats (Atrial or Vent.)   | median RR                        | median RR interval                               | DM                      | General diastolic murmur               | DCM                  | Dilated Cardiomyopathy (Eccentric LVH)            |
| PR                  | PR interval           | PR Interval                         | RR std                           | Standard Dev. of RR intervals                    | EC                      | Aortic/Pulmonic Ejection Click         | RVE                  | Right Ventricular Enlargement                     |
| QT                  | QT interval           | QT interval                         | RMSSD                            | Root Mean Square of dRR intervals                | OS                      | Opening Snap Sound                     | LAE                  | Left Atrial Enlargement                           |
| AXD                 | Axis Deviation        | Left or Right Axis Deviation        | PNN50                            | Rate of IdRR intervals  > 50ms                   | S3                      | 3rd Heart Sound (observable)           | RAE                  | Right Atrial Enlargement                          |
| RWA                 | Rwave Abnormality     | R-wave Abnormality                  | LF/HF (0.15Hz)                   | Low per high frequency parts of RR int. spectrum | S4                      | 4th Heart Sound (observable)           | WMA                  | LV Wall Motion Abnormality                        |
| QRSV                | QRS Voltage           | QRS Voltage                         | QRS axis                         | QRS axis in frontal plane                        | S1W                     | Wide 1st Heart Sound                   | LVSD                 | LV Systolic Dysfunction                           |
| BBB                 | B. Branch Block       | Bundle Branch Block                 | PQ interval                      | PQ Interval                                      | S2W                     | Wide 2nd Heart Sound                   | DDIM                 | Diastolic Dysfunction type of Impaired Relaxation |
| FAB                 | Fascicular Block      | Fascicular Block                    | PRc (Soliman)                    | Corrected PR interval by RR and Age              | Whee                    | Wheezing noise found                   | AS                   | Aortic Stenosis                                   |
| STTd                | ST-T deviation        | ST and T wave Deviation             | P interval                       | P Wave Interval                                  | Artf                    | Artifact noise found                   | MS                   | Mitral Valve Stenosis                             |
| VH                  | Vent. Hypertrophy     | Ventricular Hypertrophy             | P axis                           | P wave axis                                      | PCGq                    | PCG Signal Quality class               | AR                   | Aortic Valve Insufficiency                        |
| AE                  | Atrial Abnormality    | Atrial Enlargement                  | P term.force                     | P negative area in V1 lead                       | LVET                    | MCG Left Ventricular Ejection Time     | MR                   | Mitral Valve Insufficiency                        |
| ECGq                | ECG Signal Quality    | ECG Signal Quality Class            | QT interval                      | QT Interval                                      | SPI                     | MCG Systolic Performance Index         | TR                   | Tricuspid Valve Insufficiency                     |
| ECGsum              | ECG Summary           | ECG Findings Summary                | QTc (fram)                       | Corrected QT by Framingham's                     | MPI                     | MCG Myocardial Performance Index       | PH                   | Pulmonary Hypertension                            |
| SR                  | Sinus                 | Sinus Rhythm                        | QTc-CHART                        | Corrected QT by CHART's Body Size                | MCGq                    | MCG Signal Quality class               | HART                 | HART Findings Summary                             |
| ST                  | S. Tachycardia        | Sinus Tachycardia                   | JTc                              | Corrected JT Interval                            | PCGsum                  | PCG Findings Summary                   |                      |                                                   |
| SB                  | S. Bradycardia        | Sinus Bradycardia                   | QRS interval                     | QRS Interval                                     | EMAT                    | MCG Electro mechanical activation time |                      |                                                   |
| AFib                | Atrial Fibrillation   | Atrial Fibrillation                 | VAT                              | Global Rwave peak time (miniscoid deflection)    | PEP                     | MCG Pre-ejection Period                |                      |                                                   |
| AFLU                | Atrial Flutter        | Atrial Flutter                      | ST interval                      | ST interval                                      |                         |                                        |                      |                                                   |
| EAR                 | Ectopic Atrial R.     | Ectopic Atrial Rhythm               | ST axis                          | ST axis                                          |                         |                                        |                      |                                                   |
| SVR                 | Supraventricular      | Supraventricular Rhythm             | T axis                           | T wave axis                                      |                         |                                        |                      |                                                   |
| OR                  | Other                 | Other Rhythm (Rare)                 | Rsum (V1-V6)                     | Summary of R amplitude V1-V6                     |                         |                                        |                      |                                                   |
| PM                  | Pacemaker             | Pacemaker Rhythm                    | Sok-Lyon                         | Sokolow-Lyon index measurement                   |                         |                                        |                      |                                                   |
| PVC                 | PVC                   | Premature Ventricular Complex       | Cornell Volt                     | Cornell voltage measurement                      |                         |                                        |                      |                                                   |
| FPVC                | Frequent PVC          | Frequent PVC (>20%)                 | Lewis index                      | Lewis Index: (RI-SI) + (SIII-RIII)               |                         |                                        |                      |                                                   |
| PAC                 | PAC                   | Premature Atrial Complex            | LVH Score                        | LVH modified Romhilt-Estes score                 |                         |                                        |                      |                                                   |
| FPAC                | Frequent PAC          | Frequent PAC (>20%)                 | RVH Score                        | RVH Score (0-6)                                  |                         |                                        |                      |                                                   |
| BLoPR               | Bord. Long PR         | Borderline Prolonged PR interval    |                                  |                                                  |                         |                                        |                      |                                                   |
| LoPR                | Long PR (AV block)    | Prolonged PR Interval               |                                  |                                                  |                         |                                        |                      |                                                   |
| BShPR               | Bord. Short PR        | Borderline Short PR interval        |                                  |                                                  |                         |                                        |                      |                                                   |
| ShPR                | Short PR              | Short PR Interval                   |                                  |                                                  |                         |                                        |                      |                                                   |
| Uninter             | Uninterpretable       | Uninterpretable ECG                 |                                  |                                                  |                         |                                        |                      |                                                   |
| BLoQT               | Bord. Long QT         | Borderline Prolonged QT interval    |                                  |                                                  |                         |                                        |                      |                                                   |
| LoQT                | Prolonged QT          | Prolonged QT interval               |                                  |                                                  |                         |                                        |                      |                                                   |
| BShQT               | Bord. Short QT        | Borderline Short QT interval        |                                  |                                                  |                         |                                        |                      |                                                   |
| ShQT                | Short QT              | Short QT interval                   |                                  |                                                  |                         |                                        |                      |                                                   |
| LAX                 | Leftward Axis         | Left-axis Deviation                 |                                  |                                                  |                         |                                        |                      |                                                   |
| RAX                 | Rightward Axis        | Right-axis Deviation                |                                  |                                                  |                         |                                        |                      |                                                   |
| EAX                 | Extreme Axis          | Extreme Axis Deviation (-90°:-180°) |                                  |                                                  |                         |                                        |                      |                                                   |
| PRWP                | Poor R-wave Prog.     | Poor R-wave progression             |                                  |                                                  |                         |                                        |                      |                                                   |
| LQRS                | Low QRS volt.         | Generalized Low QRS voltages        |                                  |                                                  |                         |                                        |                      |                                                   |
| HQRS                | High QRS volt.        | Abnormally High QRS voltages        |                                  |                                                  |                         |                                        |                      |                                                   |
| LBbB                | LBbB                  | Left Bundle Branch Block            |                                  |                                                  |                         |                                        |                      |                                                   |
| RBbB                | RBbB                  | Right Bundle Branch Block           |                                  |                                                  |                         |                                        |                      |                                                   |
| IVCD                | IVCD                  | Intraventricular Conduction Delay   |                                  |                                                  |                         |                                        |                      |                                                   |
| ILbBB               | ILbBB                 | Incomplete LBbB                     |                                  |                                                  |                         |                                        |                      |                                                   |
| IRbBB               | IRbBB                 | Incomplete RBbB                     |                                  |                                                  |                         |                                        |                      |                                                   |
| VPREe               | Vent. Pre-exc.        | Ventricular Pre-Excitation          |                                  |                                                  |                         |                                        |                      |                                                   |
| BLAFB               | Bord. LAFB            | Borderline LAFB                     |                                  |                                                  |                         |                                        |                      |                                                   |
| LAFB                | L. A. Fasc. Block     | Left Anterior Fascicular Block      |                                  |                                                  |                         |                                        |                      |                                                   |
| LPFB                | LPFB                  | Left Posterior Fascicular Block     |                                  |                                                  |                         |                                        |                      |                                                   |
| STnspeon-specific   |                       | Nonspecific ST-T abnormality        |                                  |                                                  |                         |                                        |                      |                                                   |
| STdev               | ST deviation          | ST Deviation                        |                                  |                                                  |                         |                                        |                      |                                                   |
| TWA                 | T-wave Abnormality    | T-wave Abnormality                  |                                  |                                                  |                         |                                        |                      |                                                   |
| MI                  | Myocardial Infarction | Myocardial Infarction (ECG)         |                                  |                                                  |                         |                                        |                      |                                                   |
| LVHe                | LVH Crit.             | Left Ventricular Hypertrophy (ECG)  |                                  |                                                  |                         |                                        |                      |                                                   |
| RVHe                | RVH Crit.             | Right Ventricular Hypertrophy (ECG) |                                  |                                                  |                         |                                        |                      |                                                   |
| BLVHe               | Bord. LVH             | Borderline LV Hypertrophy (ECG)     |                                  |                                                  |                         |                                        |                      |                                                   |
| BRVHe               | Bord. RVH             | Borderline RV Hypertrophy (ECG)     |                                  |                                                  |                         |                                        |                      |                                                   |
| BLAE                | Bord. LA Abn.         | Borderline LA Abnormality (ECG)     |                                  |                                                  |                         |                                        |                      |                                                   |
| LAEe                | Possible LA Abn.      | Left Atrial Abnormality (ECG)       |                                  |                                                  |                         |                                        |                      |                                                   |
| BRAE                | Bord. RA Abn.         | Borderline RA Abnormality (ECG)     |                                  |                                                  |                         |                                        |                      |                                                   |
| RAEe                | Possible RA Abn.      | Right Atrial Abnormality (ECG)      |                                  |                                                  |                         |                                        |                      |                                                   |
| Good                | Good Quality          | Good-quality ECG signal             |                                  |                                                  |                         |                                        |                      |                                                   |
| PoorQ               | Passable Quality      | Passable-quality ECG signal         |                                  |                                                  |                         |                                        |                      |                                                   |
| Bad                 | Bad Quality           | ECG signal Quality Error            |                                  |                                                  |                         |                                        |                      |                                                   |
| NORM                | Normal ECG            | Normal ECG                          |                                  |                                                  |                         |                                        |                      |                                                   |
| BORD                | Borderline ECG        | Borderline ECG                      |                                  |                                                  |                         |                                        |                      |                                                   |
| ABNO                | Abnormal ECG          | Abnormal ECG                        |                                  |                                                  |                         |                                        |                      |                                                   |

| ECG Measurements (Local) Legend |                                  |
|---------------------------------|----------------------------------|
| Display                         | Description                      |
| Qamp                            | Q Peak Amplitude                 |
| Ramp                            | R Peak Amplitude                 |
| Samp                            | S Peak Amplitude                 |
| R'amp                           | R' Peak Amplitude                |
| S'amp                           | S' wave amplitude                |
| Jamp                            | J point (ST) Amplitude           |
| J40amp                          | J point +40ms amplitude          |
| J60amp                          | Jpoint +60ms amplitude           |
| J80amp                          | J point +80ms (ST80) Amplitude   |
| J100amp                         | J point +100ms (ST100) Amplitude |
| STslo0-80                       | ST slope on J00-J80 interval     |
| STslo50-70                      | ST slope on J50-J70 interval     |
| Rarea                           | R Wave Area                      |
| QRSptp                          | QRS Peak-to-Peak, typically      |
| P+amp                           | P wave positive amplitude        |
| P-amp                           | P wave negative amplitude        |
| Parea                           | P Wave Area                      |
| P+area                          | P wave positive area             |
| P term.force                    | P negative area in V1 lead       |
| T+amp                           | T wave positive amplitude        |
| T-amp                           | T wave negative amplitude        |
| Tarea                           | T Wave Area                      |
| T+area                          | P wave positive area             |
| T-area                          | P wave negative area             |
| Q/R                             | Q/R Amplitude Ratio              |
| R/S                             | R/S Amplitude Ratio              |
| R/R'                            | R/R' Amplitude Ratio             |
| T/R                             | T/R Amplitude Ratio              |
| Qint                            | Q Wave Interval                  |
| Rint                            | R Wave Interval                  |
| R'int                           | R' interval                      |
| Sint                            | S Wave Interval                  |
| S'int                           | S' interval                      |
| R-peaktime                      | Local Rwave peak time            |

| PCG Measurements Legend |                                 |
|-------------------------|---------------------------------|
| Display                 | Description                     |
| S1 amp                  | 1st Sound Amplitude             |
| S2 amp                  | 2nd Sound Amplitude             |
| S3 amp                  | 3rd Sound Amplitude             |
| S4 amp                  | 4th Sound Amplitude             |
| Sys. M amp              | Systolic Murmur Amplitude       |
| Holo-SM amp             | Holo-systolic Murmur Amplitude  |
| Early-SM amp            | Early-systolic Murmur Amplitude |
| Mid-SM amp              | Mid-systolic Murmur Amplitude   |
| Late-SM amp             | Late-systolic Murmur Amplitude  |
| Dias. M amp             | Diastolic Murmur Amplitude      |
| Ejec. Click amp         | Ejection Click Amplitude        |
| MidS. Click amp         | Midsystolic Click Amplitude     |
| Op. Snap amp            | Opening Snap Amplitude          |
| Wheeze amp              | Wheezing Amplitude              |
| Artf amp                | Artifact Amplitude              |

| MCG Measurements Legend |                                                 |
|-------------------------|-------------------------------------------------|
| Display                 | Description                                     |
| EMAT                    | Electro-mechanical Activation Time (Q-MC)       |
| QS2                     | Q-onset 2nd-Sound Period (Q-S2)                 |
| PEP                     | Pre-ejection Period (Q-AO)                      |
| LVST                    | Left Ventricular Systolic time (MC-AC)          |
| IVCT                    | Isovolumic Contraction Time (MC-AO)             |
| LVET                    | Left Ventricular Ejection Time (AO-AC)          |
| LVDT                    | Left Ventricular Diastolic Time (AC-MC)         |
| LVFT                    | Left Ventricular Filling Time (MO-MC)           |
| IVRT                    | Isovolumic Relaxation Time (AC-MO)              |
| RVFT                    | Rapid Ventricular Filling Time                  |
| MPI                     | Myocardial Performance Index ((IVCT+IVRT)/LVET) |
| SPI                     | Systolic Performance Index (PEP/LVET)           |
| EMATc                   | Corrected EMAT (EMAT/RR)                        |
| QS2I                    | Q-S2 Index (QS2+2.1HR)                          |
| PEPI                    | PEP Index (PEP+0.4HR)                           |
| LVETI                   | LVET Index (LVET+1.7HR)                         |
| LVFTc                   | Corrected LVFT (LVFT/RR)                        |
| S1int                   | 1st Sound Interval                              |

