

# Bolometer tuning output (IV-algorithm)

## Target Data

|                     |   |
|---------------------|---|
| Full target name    | None.Dfmux(serial=0437).MGMEZZ04(2,None).ReadoutModule(3) |
| Reduced target name | IceBoard(0437).Mezz(2).ReadoutModule(3)                   |
| Date                | Mon Feb 25 17:30:53 2019                                  |
| HWM used            | 190221_run17b_hwm   |
| Outcome             | success   |

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### Summary Of Results

|   |    |
|---|----|
| Number of successfully tuned bolometers         | 0  |
| Number of bolos zeroed before start             | 37 |
| Number of latched bolometers                    | 0  |
| Number of bolometers which didn't finish tuning | 0  |

### **Note**

All Current, Voltage, and Power quantities expressed as Peak Amplitudes.

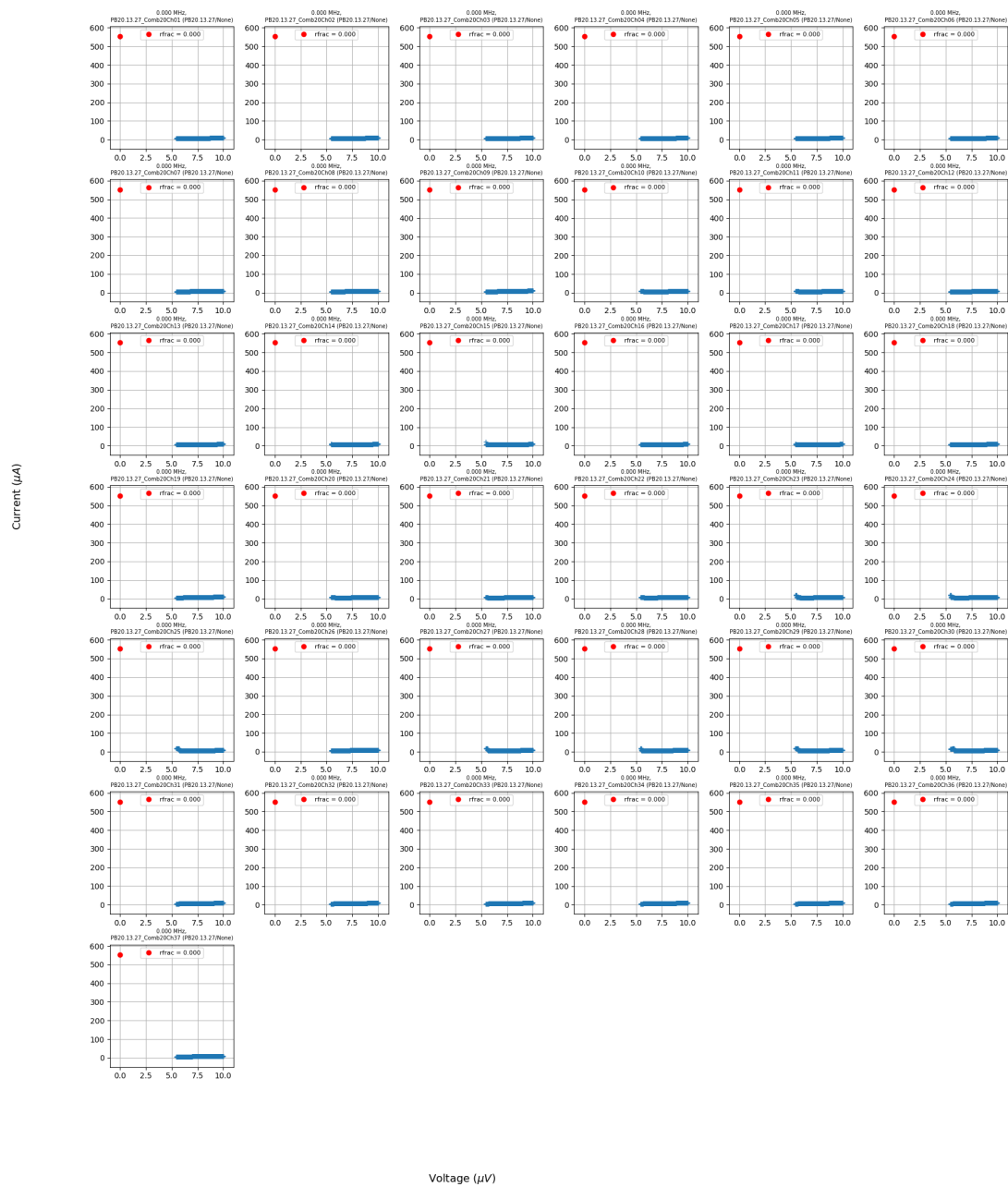
To convert Power values to RMS, divide by 2.

To convert Current or Voltage to RMS, divide by  $\sqrt{2}$ .

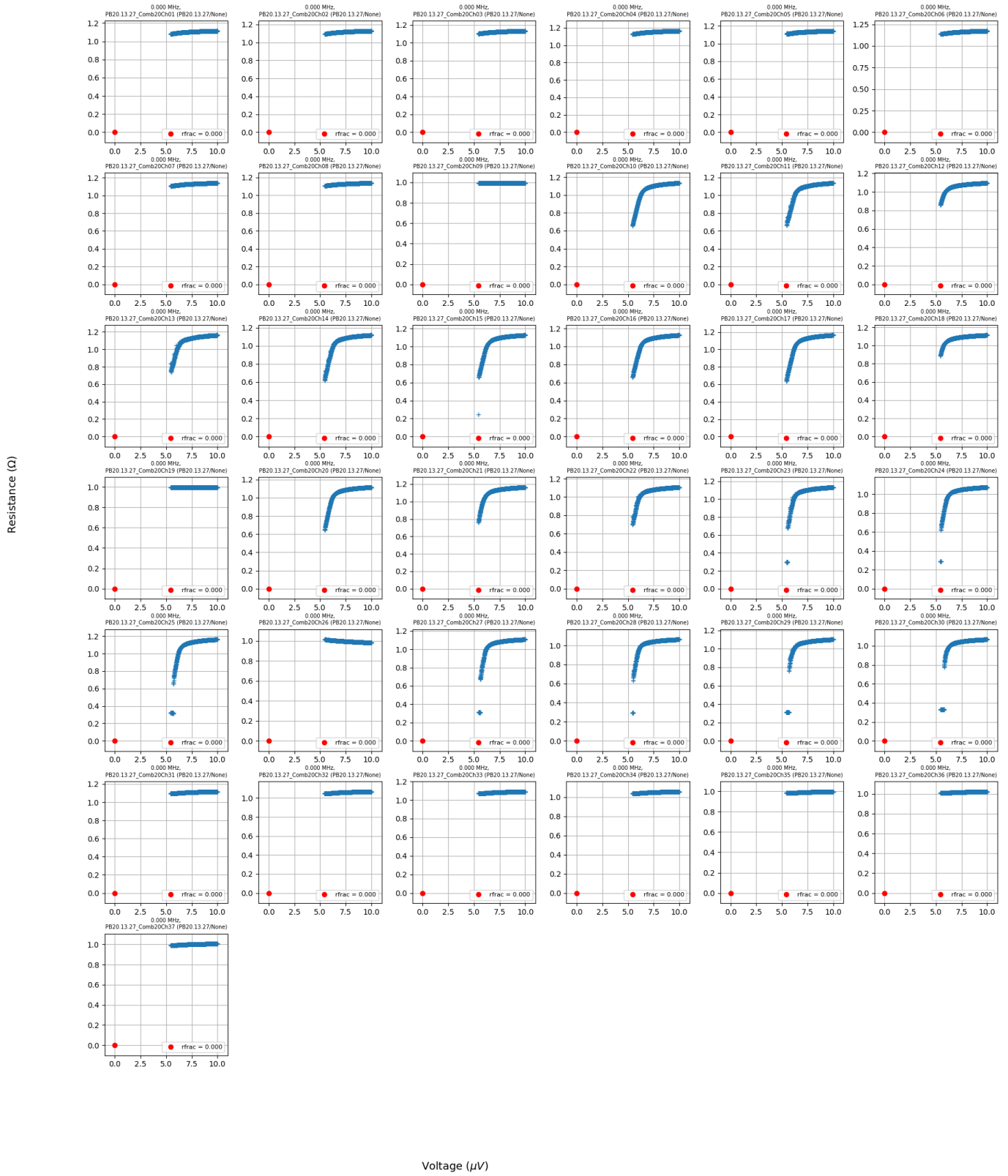
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## Plots

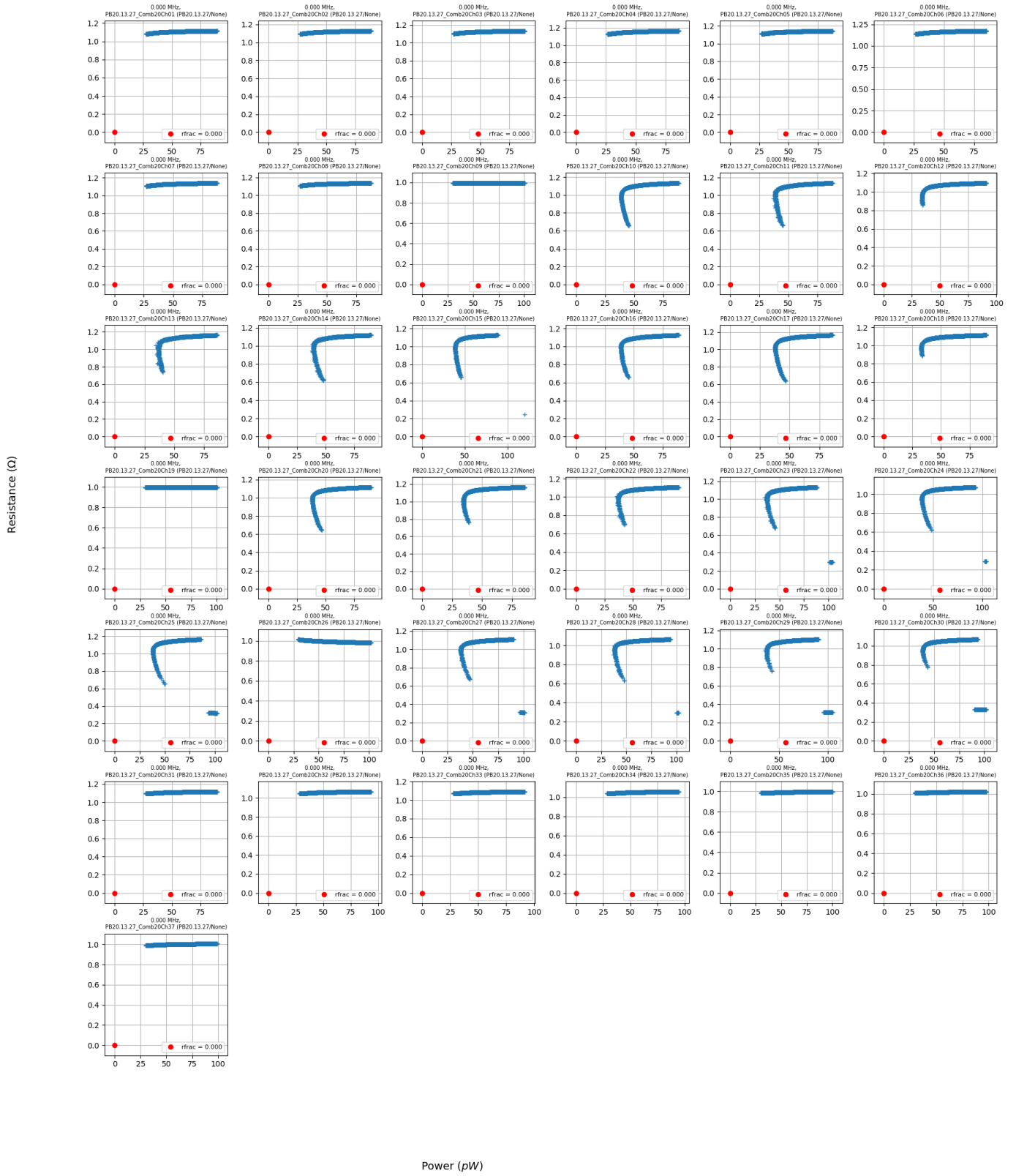
IV Curves for tuned bolometers, final state in red



# RV Curves for tuned bolometers, final state in red



R-P Curves for tuned bolometers, final state in red



## Detailed Summary

| Readout Channel | Bolometer              | Physical Name   | Bias Frequency [Hz] | Final Resistance [Ohms] | Target Rfrac            | Acheived Rfrac |
|-----------------|------------------------|-----------------|---------------------|-------------------------|-------------------------|----------------|
| 1               | PB20.13.27_Comb20C h01 | PB20.13.27/None | 1594085.69802       | 0.0000                  | N/A: target amplitude 0 | 0.0000         |
| 2               | PB20.13.27_Comb20C h02 | PB20.13.27/None | 1650543.21755       | 0.0000                  | N/A: target amplitude 0 | 0.0000         |
| 3               | PB20.13.27_Comb20C h03 | PB20.13.27/None | 1692352.29958       | 0.0000                  | N/A: target amplitude 0 | 0.0000         |
| 4               | PB20.13.27_Comb20C h04 | PB20.13.27/None | 1741333.01247       | 0.0000                  | N/A: target amplitude 0 | 0.0000         |
| 5               | PB20.13.27_Comb20C h05 | PB20.13.27/None | 1796340.94704       | 0.0000                  | N/A: target amplitude 0 | 0.0000         |
| 6               | PB20.13.27_Comb20C h06 | PB20.13.27/None | 1845245.36599       | 0.0000                  | N/A: target amplitude 0 | 0.0000         |
| 7               | PB20.13.27_Comb20C h07 | PB20.13.27/None | 1950378.42262       | 0.0000                  | N/A: target amplitude 0 | 0.0000         |
| 8               | PB20.13.27_Comb20C h08 | PB20.13.27/None | 2006607.06032       | 0.0000                  | N/A: target amplitude 0 | 0.0000         |
| 9               | PB20.13.27_Comb20C h09 | PB20.13.27/None | 2068786.62575       | 0.0000                  | N/A: target amplitude 0 | 0.0000         |
| 10              | PB20.13.27_Comb20C h10 | PB20.13.27/None | 2118148.80837       | 0.0000                  | N/A: target amplitude 0 | 0.0000         |
| 11              | PB20.13.27_Comb20C h11 | PB20.13.27/None | 2175750.73708       | 0.0000                  | N/A: target amplitude 0 | 0.0000         |
| 12              | PB20.13.27_Comb20C h12 | PB20.13.27/None | 2245559.69704       | 0.0000                  | N/A: target amplitude 0 | 0.0000         |
| 13              | PB20.13.27_Comb20C h13 | PB20.13.27/None | 2293472.2947        | 0.0000                  | N/A: target amplitude 0 | 0.0000         |
| 14              | PB20.13.27_Comb20C h14 | PB20.13.27/None | 2370147.70974       | 0.0000                  | N/A: target amplitude 0 | 0.0000         |

|    |                               |                     |                   |        |                            |        |
|----|-------------------------------|---------------------|-------------------|--------|----------------------------|--------|
| 15 | PB20.13.27<br>_Comb20C<br>h15 | PB20.13.27/<br>None | 2424011.23<br>513 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 16 | PB20.13.27<br>_Comb20C<br>h16 | PB20.13.27/<br>None | 2503662.11<br>403 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 17 | PB20.13.27<br>_Comb20C<br>h17 | PB20.13.27/<br>None | 2544631.96<br>266 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 18 | PB20.13.27<br>_Comb20C<br>h18 | PB20.13.27/<br>None | 2610473.63<br>747 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 19 | PB20.13.27<br>_Comb20C<br>h19 | PB20.13.27/<br>None | 2698898.32<br>009 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 20 | PB20.13.27<br>_Comb20C<br>h20 | PB20.13.27/<br>None | 2774658.20<br>778 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 21 | PB20.13.27<br>_Comb20C<br>h21 | PB20.13.27/<br>None | 2820358.28<br>102 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 22 | PB20.13.27<br>_Comb20C<br>h22 | PB20.13.27/<br>None | 2899856.57<br>204 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 23 | PB20.13.27<br>_Comb20C<br>h23 | PB20.13.27/<br>None | 2988967.90<br>016 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 24 | PB20.13.27<br>_Comb20C<br>h24 | PB20.13.27/<br>None | 3070297.24<br>587 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 25 | PB20.13.27<br>_Comb20C<br>h25 | PB20.13.27/<br>None | 3126373.29<br>567 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 26 | PB20.13.27<br>_Comb20C<br>h26 | PB20.13.27/<br>None | 3227691.65<br>505 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 27 | PB20.13.27<br>_Comb20C<br>h27 | PB20.13.27/<br>None | 3300857.54<br>86  | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 28 | PB20.13.27<br>_Comb20C<br>h28 | PB20.13.27/<br>None | 3358840.94<br>704 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 29 | PB20.13.27<br>_Comb20C<br>h29 | PB20.13.27/<br>None | 3429107.67<br>067 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 30 | PB20.13.27<br>_Comb20C<br>h30 | PB20.13.27/<br>None | 3536911.01<br>54  | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |

|    |                               |                     |                   |        |                            |        |
|----|-------------------------------|---------------------|-------------------|--------|----------------------------|--------|
| 31 | PB20.13.27<br>_Comb20C<br>h31 | PB20.13.27/<br>None | 3599395.75<br>661 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 32 | PB20.13.27<br>_Comb20C<br>h32 | PB20.13.27/<br>None | 3689956.66<br>97  | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 33 | PB20.13.27<br>_Comb20C<br>h33 | PB20.13.27/<br>None | 3773117.07<br>009 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 34 | PB20.13.27<br>_Comb20C<br>h34 | PB20.13.27/<br>None | 3979415.89<br>821 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 35 | PB20.13.27<br>_Comb20C<br>h35 | PB20.13.27/<br>None | 4190444.95<br>095 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 36 | PB20.13.27<br>_Comb20C<br>h36 | PB20.13.27/<br>None | 4219207.76<br>833 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |
| 37 | PB20.13.27<br>_Comb20C<br>h37 | PB20.13.27/<br>None | 4324188.23<br>708 | 0.0000 | N/A: target<br>amplitude 0 | 0.0000 |