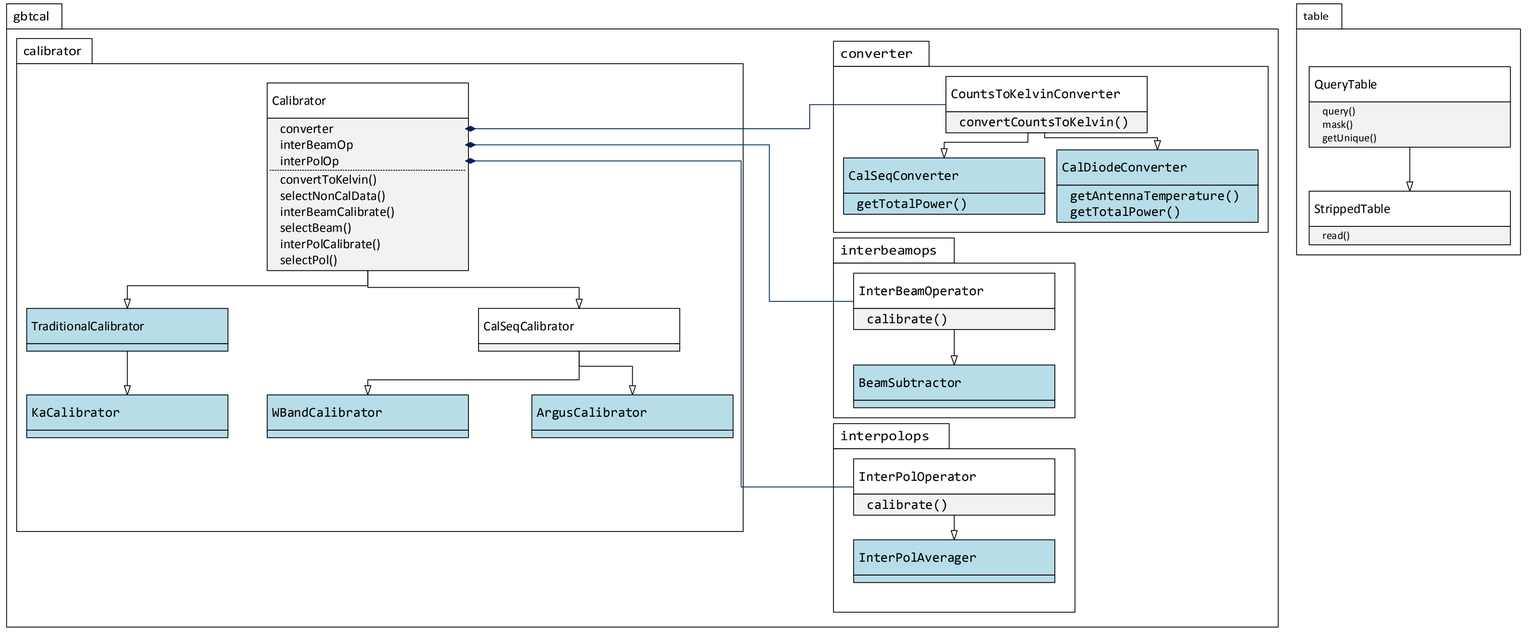
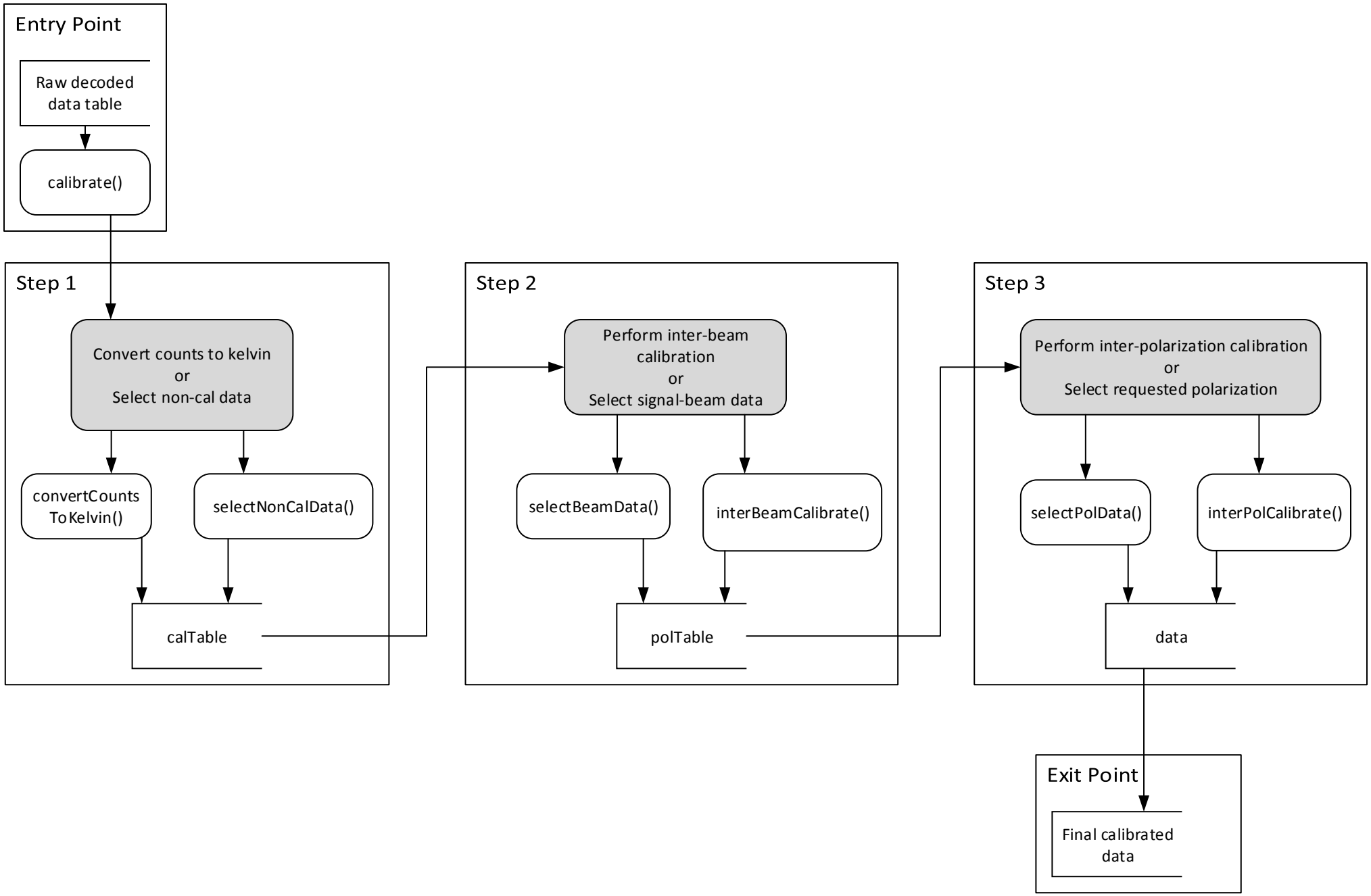
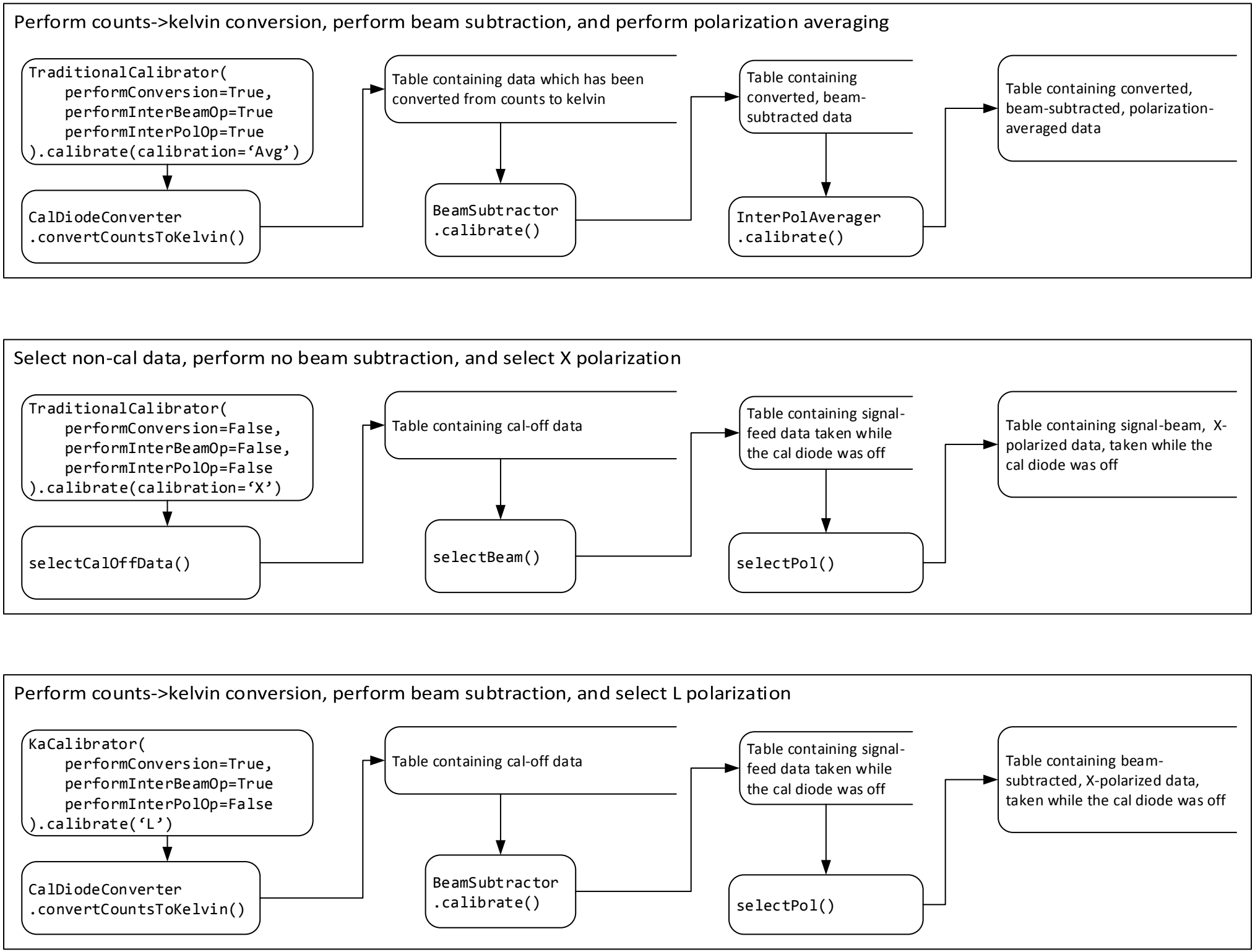

gbtcal
calibrator
Calibrator
converter
interBeamOp
interPolOp
convertToKelvin()
selectNonCalData()
interBeamCalibrate()
selectBeam()
interPolCalibrate()
selectPol()
TraditionalCalibrator
CalSeqCalibrator
KaCalibrator
WBandCalibrator
ArgusCalibrator
converter
CountsToKelvinConverter
convertCountsToKelvin()
CalSeqConverter
getTotalPower()
CalDiodeConverter
getAntennaTemperature()
getTotalPower()
interbeamops
InterBeamOperator
calibrate()
BeamSubtractor
interpolops
InterPolOperator
calibrate()
InterPolAverager
table
QueryTable
query()
mask()
getUnique()
StrippedTable
read()


Entry Point
Raw decoded data table
calibrate()
Step 1
Convert counts to kelvin or Select non-cal data
convertCounts ToKelvin()
selectNonCalData()
calTable
Step 2
Perform inter-beam calibration or Select signal-beam data
selectBeamData()
interBeamCalibrate()
polTable
Step 3
Perform inter-polarization calibration or Select requested polarization
selectPolData()
interPolCalibrate()
data
Exit Point
Final calibrated data


Perform counts->kelvin conversion, perform beam subtraction, and perform polarization averaging
TraditionalCalibrator(
performConversion=True,
performInterBeamOp=True
performInterPolOp=True
).calibrate(calibration='Avg')
CalDiodeConverter
.convertCountsToKelvin()
Table containing data which has been converted from counts to kelvin
BeamSubtractor
.calibrate()
Table containing converted, beam-subtracted data
InterPolAverager
.calibrate()
Table containing converted, beam-subtracted, polarization-averaged data
Select non-cal data, perform no beam subtraction, and select X polarization
TraditionalCalibrator(
performConversion=False,
performInterBeamOp=False,
performInterPolOp=False
).calibrate(calibration='X')
selectCalOffData()
Table containing cal-off data
selectBeam()
Table containing signal-feed data taken while the cal diode was off
selectPol()
Table containing signal-beam, X-polarized data, taken while the cal diode was off
Perform counts->kelvin conversion, perform beam subtraction, and select L polarization
KaCalibrator(
performConversion=True,
performInterBeamOp=True
performInterPolOp=False
).calibrate('L')
CalDiodeConverter
.convertCountsToKelvin()
Table containing cal-off data
BeamSubtractor
.calibrate()
Table containing signal-feed data taken while the cal diode was off
selectPol()
Table containing beam-subtracted, X-polarized data, taken while the cal diode was off