From qpnp-smbcharger.c file, we can see this function is used for DCIN ADC channel as recurring measurement mode .

chip->param.channel = DCIN;

chip->param.btm_ctx = chip;

if (wipower_dcin_interval < ADC_MEAS1_INTERVAL_0MS)

wipower_dcin_interval = ADC_MEAS1_INTERVAL_0MS;

if (wipower_dcin_interval > ADC_MEAS1_INTERVAL_16S)

wipower_dcin_interval = ADC_MEAS1_INTERVAL_16S;

chip->param.timer_interval = wipower_dcin_interval;

chip->param.threshold_notification = &btm_notify_dcin;

chip->param.high_thr = ilim->vmax_uv + wipower_dcin_hyst_uv;

chip->param.low_thr = ilim->vmin_uv - wipower_dcin_hyst_uv;

chip->param.state_request = ADC_TM_HIGH_LOW_THR_ENABLE;

rc = qpnp_vadc_channel_monitor(chip->vadc_dev, &chip->param);

The limitation is there is only one channel that can be configured in recurring measurement mode but given &pmi8950_vadc handle does not have the property vadc-meas-int-mode it does not appear there are other clients using it so for this platform you may use USBIN channel.

Below patch is to enable USBIN ADC as recurring measurement mode for PMI8952:

diff --git a/arch/arm/boot/dts/qcom/msm-pmi8950.dtsi b/arch/arm/boot/dts/qcom/msm-pmi8950.dtsi

index 2aea4f4..530bf2f 100644

--- a/arch/arm/boot/dts/qcom/msm-pmi8950.dtsi

+++ b/arch/arm/boot/dts/qcom/msm-pmi8950.dtsi

@@ -45,9 +45,14 @@

#address-cells = <1>;

#size-cells = <0>;

interrupts = <0x2 0x31 0x0>;

+ <0x2 0x31 0x3>,

+ <0x2 0x31 0x4>;

interrupt-names = "eoc-int-en-set";

+ "high-thr-en-set",

+ "low-thr-en-set";

qcom,adc-bit-resolution = <15>;

qcom,adc-vdd-reference = <1800>;

+ qcom,vadc-meas-int-mode;

qcom,vadc-poll-eoc;

chan@0 {

--

We currently have PMI8994 enabled to support recurring measurement from the device tree

```
pmi8994_vadc: vadc@3100 {
        compatible = "qcom,qpnp-vadc";
        reg = <0x3100 0x100>;
        #address-cells = <1>;
        #size-cells = <0>;
        interrupts = <0x2 0x31 0x0>,
                        <0x2 0x31 0x3>,
                        <0x2 0x31 0x4>;
        interrupt-names =       "eoc-int-en-set",
                                "high-thr-en-set",
                                "low-thr-en-set";
        qcom,adc-bit-resolution = <15>;
        qcom,adc-vdd-reference = <1800>;
        qcom,vadc-poll-eoc;
        qcom,vadc-meas-int-mode;
        qcom,pmic-revid = <&pmi8994_revid>;

        chan@d {
                label = "chg_temp";
                reg = <0xd>;
                qcom,decimation = <0>;
                qcom,pre-div-channel-scaling = <0>;
                qcom,calibration-type = "absolute";
                qcom,scale-function = <16>;
                qcom,hw-settle-time = <0>;
                qcom,fast-avg-setup = <0>;
        };
};
```