Table 1: Crystal data and refinement details for  $\mathbf{mf118b},\,\mathbf{mf118b},\,$  and  $\mathbf{mf118b}.$ 

compound	mf118b	mf118b	mf118b
empirical formula	$C_{38}H_{54}Fe_2N_{12}S_2$	$C_{38}H_{54}Fe_2N_{12}S_2$	$C_{38}H_{54}Fe_2N_{12}S_2$
moiety formula	$C_{22}H_{14}Fe_2N_{10}S_2^{2-}, 2(C_8H_{20}N^+)$	$C_{22}H_{14}Fe_2N_{10}S_2^{2-}, 2(C_8H_{20}N^+)$	$C_{22}H_{14}Fe_2N_{10}S_2^{2-}, 2(C_8H_{20}N^+)$
formula weight	854.75	854.75	854.75
T/K	133(2)	133(2)	133(2)
$crystal size /mm^3$	$0.500 \times 0.500 \times 0.360$	$0.500 \times 0.500 \times 0.360$	$0.500 \times 0.500 \times 0.360$
crystal system	monoclinic	monoclinic	monoclinic
space group	$P2_1/c$ (No. 14)	$P2_1/c$ (No. 14)	$P2_1/c$ (No. 14)
a/Å	11.2144(4)	11.2144(4)	11.2144(4)
$b/\mathrm{\AA}$	14.4686(4)	14.4686(4)	14.4686(4)
$c/\mathrm{\AA}$	13.7454(5)	13.7454(5)	13.7454(5)
$\alpha/^{\circ}$	90	90	90
$\beta/^{\circ}$	113.658(3)	113.658(3)	113.658(3)
$\gamma$ /°	90	90	90
$V/Å^3$	2042.84(13)	2042.84(13)	2042.84(13)
Z	2	2	2
$\rho/\mathrm{g\cdot cm}^{-3}$	1.390	1.390	1.390
F(000)	900	900	900
$\mu/\mathrm{mm}^{-1}$	0.857	0.857	0.857
$T_{\min} / T_{\max}$	$0.6373 \ / \ 0.7269$	$0.6373 \ / \ 0.7269$	$0.6373 \ / \ 0.7269$
$\theta$ -range /°	1.983 - 26.942	1.983 - 26.942	1.983 - 26.942
hkl-range	$-14 \le h \le 14$	$-14 \le h \le 14$	$-14 \le h \le 14$
	$-18 \le k \le 18$	$-18 \le k \le 18$	$-18 \le k \le 18$
	$-17 \le l \le 18$	$-17 \le l \le 17$	$-17 \le l \le 17$
measured refl.	26072	26072	26072
unique refl. $[R_{\rm int}]$	4445 [0.0317]	4445 [0.0317]	4445 [0.0317]
obs. refl. $(I > 2\sigma(I))$	4191	4191	4191
data / restr. / param.	4445 / 0 / 248	4445 / 0 / 248	4445 / 0 / 248
goodness-of-fit $(F^2)$	1.037	1.037	1.037
$R1, wR2 (I > 2\sigma(I))$	$0.0227 \ / \ 0.0599$	$0.0227 \ / \ 0.0599$	$0.0227 \ / \ 0.0599$
R1, wR2  (all data)	0.0247 / 0.0608	0.0247 / 0.0608	0.0247 / 0.0608
res. el. dens. $/e \cdot Å^{-3}$	$-0.360^{'}/~0.310$	$-0.360^{'}/~0.310$	$-0.360^{'}/\ 0.310$