A solid-state NMR study of lead and vanadium substitution into Hydroxyapatite

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S1 ^{51}V Static Echo NMR spectrum of $\text{Ca}_{10}(\text{PO}_4)_5(\text{VO}_4)(\text{OH})_2$

The echo delay was $20\mu\text{s}$.

Figure S1

S2 CSA parameters obtained from simulation of ^{207}Pb MAS Hahn Echo experiment of $\text{Pb}_{10}(\text{PO}_4)_6(\text{OH})_2$ at 10kHz spinning rate.

Table S2

Line	δ_{iso}	$\Delta\delta$	η	Intensity
1	-2775.(83)	-298.1	0.1	0.55
2	-2792.(76)	-299.8	0.60	0.45

Figure S2 ^{207}Pb MAS spectra simulations obtained using the parameters in Table S2.

Spin Rate 8kHz

Spin Rate 10kHz

S3 Results of a deconvolution of the ^{31}P MAS experiment of $\text{Pb}_6\text{Ca}_4(\text{PO}_4)_5(\text{VO}_4)(\text{OH})_2$

Table S3

Line	δ_{iso}	Width (Hz)	Intensity
1	3.8	314	0.35
2	2.8	242	0.36
3	1.5	316	0.21
4	0.0	377	0.08

Figure S3

S4 Results of a deconvolution of the ^{51}V MAS spectrum of $\text{Pb}_{10}(\text{PO}_4)_{5.5}(\text{VO}_4)_{0.5}(\text{OH})_2$

Table S4

Line	δ_{iso}	Width (Hz)	Intensity
1	-504	1233	0.39
2	-509	454	0.22
3	-512	1106	0.39

Figure S43

S5 Results of a deconvolution of the ^{51}V MAS spectrum of $\text{Pb}_{10}(\text{PO}_4)_5(\text{VO}_4)(\text{OH})_2$

Table S5

Line	δ_{iso}	Width (Hz)	Intensity
1	-505	1669	0.78
2	-509	512	0.12
3	-514	805	0.10

Figure S5