

7.5pH Spectroscopy Curves

Wavelength (nm)	Sample 1	Sample 2
380.5	5.88E-02	2.64E-02
381.6	5.73E-02	2.77E-02
382.8	6.40E-02	3.66E-02
383.9	6.29E-02	4.69E-02
385.1	6.06E-02	5.62E-02
386.2	5.62E-02	5.91E-02
387.4	5.25E-02	5.98E-02
388.5	4.85E-02	5.29E-02
389.7	4.47E-02	5.09E-02
390.8	4.14E-02	4.85E-02
392	4.30E-02	5.06E-02
393.1	4.46E-02	5.22E-02
394.3	4.48E-02	5.06E-02
395.4	4.26E-02	4.95E-02
396.6	3.96E-02	4.74E-02
397.7	3.74E-02	4.72E-02
398.9	3.52E-02	4.77E-02
400	3.34E-02	4.67E-02
401.2	3.25E-02	4.51E-02
402.3	3.23E-02	4.34E-02
403.5	3.15E-02	4.40E-02
404.6	3.16E-02	4.28E-02
405.8	3.12E-02	4.17E-02
406.9	3.12E-02	3.83E-02
408.1	3.13E-02	3.75E-02
409.2	3.12E-02	3.83E-02
410.4	3.20E-02	4.06E-02
411.5	3.21E-02	4.14E-02
412.7	3.36E-02	4.15E-02
413.8	3.45E-02	4.02E-02
415	3.45E-02	4.16E-02
416.1	3.39E-02	4.17E-02
417.3	3.41E-02	4.32E-02
418.4	3.53E-02	4.30E-02
419.6	3.54E-02	4.25E-02
420.7	3.41E-02	4.26E-02
421.9	3.30E-02	4.32E-02
423	3.35E-02	4.43E-02
424.2	3.39E-02	4.47E-02
425.3	3.56E-02	4.62E-02
426.5	3.67E-02	4.73E-02
427.6	3.87E-02	4.81E-02
428.8	3.99E-02	4.77E-02

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429.9	4.05E-02	4.78E-02
431.1	4.10E-02	4.84E-02
432.2	3.95E-02	4.93E-02
433.4	4.03E-02	5.03E-02
434.5	4.00E-02	5.01E-02
435.7	4.07E-02	5.01E-02
436.8	4.15E-02	4.97E-02
438	4.20E-02	5.10E-02
439.1	4.30E-02	5.20E-02
440.3	4.26E-02	5.23E-02
441.4	4.18E-02	5.11E-02
442.6	4.03E-02	4.93E-02
443.7	3.94E-02	4.83E-02
444.9	4.01E-02	4.60E-02
446	4.06E-02	4.47E-02
447.2	3.92E-02	4.13E-02
448.3	3.75E-02	4.08E-02
449.5	3.52E-02	3.99E-02
450.6	3.46E-02	3.96E-02
451.8	3.37E-02	3.86E-02
452.9	3.39E-02	3.69E-02
454.1	3.38E-02	3.66E-02
455.2	3.16E-02	3.63E-02
456.4	3.22E-02	3.61E-02
457.5	3.19E-02	3.57E-02
458.7	3.34E-02	3.58E-02
459.8	3.21E-02	3.49E-02
461	3.07E-02	3.29E-02
462.1	2.92E-02	3.04E-02
463.3	2.81E-02	2.97E-02
464.4	2.80E-02	2.94E-02
465.6	2.96E-02	2.96E-02
466.7	3.13E-02	3.04E-02
467.9	3.13E-02	3.12E-02
469	2.98E-02	3.22E-02
470.2	2.66E-02	2.95E-02
471.3	2.71E-02	2.84E-02
472.5	2.64E-02	2.59E-02
473.6	2.61E-02	2.74E-02
474.8	2.50E-02	2.69E-02
475.9	2.31E-02	2.72E-02
477.1	2.24E-02	2.54E-02
478.2	2.20E-02	2.52E-02
479.4	2.35E-02	2.40E-02

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480.5	2.50E-02	2.36E-02
481.7	2.32E-02	2.15E-02
482.8	2.16E-02	1.96E-02
484	2.02E-02	1.72E-02
485.1	1.92E-02	1.58E-02
486.3	1.84E-02	1.42E-02
487.4	1.75E-02	1.42E-02
488.6	1.75E-02	1.44E-02
489.7	1.82E-02	1.56E-02
490.9	1.59E-02	1.24E-02
492	1.57E-02	1.04E-02
493.2	1.52E-02	8.63E-03
494.3	1.64E-02	1.01E-02
495.5	1.56E-02	9.70E-03
496.6	1.40E-02	8.82E-03
497.8	1.34E-02	8.13E-03
498.9	1.37E-02	8.45E-03
500.1	1.42E-02	7.39E-03
501.2	1.49E-02	6.05E-03
502.4	1.47E-02	5.09E-03
503.5	1.44E-02	6.51E-03
504.6	1.49E-02	7.00E-03
505.8	1.54E-02	8.00E-03
506.9	1.64E-02	7.02E-03
508.1	1.65E-02	7.00E-03
509.2	1.56E-02	5.51E-03
510.4	1.48E-02	4.59E-03
511.6	1.47E-02	4.55E-03
512.6	1.39E-02	3.54E-03
513.7	1.42E-02	4.05E-03
514.7	1.41E-02	4.21E-03
515.8	1.41E-02	4.19E-03
516.9	1.41E-02	4.34E-03
517.9	1.35E-02	2.76E-03
519	1.40E-02	3.06E-03
520.1	1.43E-02	1.71E-03
521.1	1.39E-02	1.13E-03
522.2	1.32E-02	6.81E-04
523.3	1.26E-02	1.48E-03
524.3	1.24E-02	2.39E-03
525.4	1.24E-02	2.29E-03
526.5	1.19E-02	1.11E-03
527.5	1.11E-02	-1.37E-04
528.6	1.19E-02	-8.36E-05

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529.7	1.08E-02	-1.02E-03
530.7	1.06E-02	-1.81E-03
531.8	9.30E-03	-3.69E-03
532.9	9.61E-03	-4.30E-03
533.9	1.01E-02	-4.12E-03
535	1.04E-02	-3.99E-03
536.1	1.02E-02	-3.75E-03
537.1	8.95E-03	-3.90E-03
538.2	6.99E-03	-4.54E-03
539.2	5.66E-03	-5.74E-03
540.3	6.46E-03	-6.11E-03
541.4	7.39E-03	-5.56E-03
542.4	8.42E-03	-4.56E-03
543.5	6.57E-03	-4.59E-03
544.6	6.71E-03	-4.86E-03
545.6	5.30E-03	-6.42E-03
546.7	6.01E-03	-7.09E-03
547.8	5.13E-03	-8.72E-03
548.8	4.65E-03	-7.98E-03
549.9	3.58E-03	-8.07E-03
551	3.05E-03	-8.21E-03
552	2.49E-03	-8.52E-03
553.1	3.48E-03	-8.02E-03
554.2	3.96E-03	-7.02E-03
555.2	4.17E-03	-7.02E-03
556.3	2.98E-03	-8.67E-03
557.4	1.64E-03	-9.14E-03
558.4	2.69E-03	-9.96E-03
559.5	2.34E-03	-9.67E-03
560.6	2.56E-03	-9.72E-03
561.6	2.12E-03	-1.00E-02
562.7	3.33E-03	-1.13E-02
563.7	4.04E-03	-1.24E-02
564.8	3.20E-03	-1.27E-02
565.9	2.56E-03	-1.21E-02
566.9	1.30E-03	-1.25E-02
568	1.84E-03	-1.27E-02
569.1	1.70E-03	-1.26E-02
570.1	2.81E-03	-1.24E-02
571.2	2.23E-03	-1.30E-02
572.3	2.31E-03	-1.34E-02
573.3	3.07E-03	-1.25E-02
574.4	2.64E-03	-1.17E-02
575.5	3.16E-03	-1.13E-02

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576.5	2.01E-03	-1.28E-02
577.6	3.50E-03	-1.31E-02
578.7	2.68E-03	-1.33E-02
579.7	2.89E-03	-1.21E-02
580.8	2.71E-03	-1.19E-02
581.9	3.32E-03	-1.20E-02
582.9	3.68E-03	-1.20E-02
584	2.91E-03	-1.22E-02
585.1	2.23E-03	-1.23E-02
586.1	1.80E-03	-1.38E-02
587.2	2.38E-03	-1.40E-02
588.3	3.12E-03	-1.34E-02
589.3	3.05E-03	-1.32E-02
590.4	3.10E-03	-1.33E-02
591.5	2.98E-03	-1.41E-02
592.6	3.25E-03	-1.25E-02
593.6	3.73E-03	-1.22E-02
594.7	4.23E-03	-1.06E-02
595.8	4.99E-03	-1.16E-02
596.9	5.49E-03	-1.07E-02
598	4.54E-03	-1.27E-02
599	4.13E-03	-1.26E-02
600.1	3.32E-03	-1.45E-02
601.2	4.50E-03	-1.43E-02
602.3	4.79E-03	-1.39E-02
603.3	5.06E-03	-1.26E-02
604.4	4.90E-03	-1.22E-02
605.5	5.16E-03	-1.22E-02
606.6	5.25E-03	-1.20E-02
607.6	5.12E-03	-1.07E-02
608.7	5.34E-03	-1.13E-02
609.8	5.12E-03	-1.24E-02
610.9	6.34E-03	-1.36E-02
611.9	5.94E-03	-1.34E-02
613	6.01E-03	-1.34E-02
614.1	5.44E-03	-1.31E-02
615.2	5.42E-03	-1.28E-02
616.2	4.52E-03	-1.22E-02
617.3	3.56E-03	-1.27E-02
618.4	3.47E-03	-1.35E-02
619.5	4.14E-03	-1.43E-02
620.6	4.39E-03	-1.46E-02
621.6	4.42E-03	-1.40E-02
622.7	4.72E-03	-1.32E-02

7.5pH Spectroscopy Curves

623.8	4.58E-03	-1.24E-02
624.9	4.02E-03	-1.30E-02
625.9	3.38E-03	-1.34E-02
627	3.36E-03	-1.43E-02
628.1	3.08E-03	-1.49E-02
629.2	3.30E-03	-1.39E-02
630.2	2.91E-03	-1.42E-02
631.3	3.39E-03	-1.42E-02
632.4	2.86E-03	-1.62E-02
633.5	2.78E-03	-1.54E-02
634.5	2.00E-03	-1.46E-02
635.6	2.46E-03	-1.34E-02
636.7	3.46E-03	-1.29E-02
637.8	4.17E-03	-1.25E-02
638.8	3.90E-03	-1.18E-02
639.9	2.93E-03	-1.17E-02
641	2.43E-03	-1.18E-02
642.1	2.52E-03	-1.13E-02
643.1	3.75E-03	-1.02E-02
644.2	4.49E-03	-8.81E-03
645.3	4.75E-03	-8.87E-03
646.4	4.35E-03	-8.38E-03
647.5	4.15E-03	-8.88E-03
648.5	4.93E-03	-7.57E-03
649.6	5.92E-03	-6.18E-03
650.7	7.37E-03	-3.94E-03
651.8	9.11E-03	-2.73E-03
652.8	9.70E-03	-2.02E-03
653.9	1.00E-02	-1.30E-03
655	1.03E-02	2.76E-05
656.1	1.04E-02	1.51E-03
657.1	1.08E-02	1.90E-03
658.2	1.02E-02	3.22E-03
659.3	1.18E-02	4.08E-03
660.4	1.21E-02	5.57E-03
661.4	1.33E-02	5.88E-03
662.5	1.29E-02	6.06E-03
663.6	1.33E-02	5.54E-03
664.7	1.25E-02	4.83E-03
665.7	1.26E-02	4.08E-03
666.8	1.21E-02	3.81E-03
667.9	1.13E-02	2.12E-03
669	9.15E-03	-5.39E-04
670.1	7.98E-03	-3.18E-03

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671.1	8.36E-03	-3.43E-03
672.2	7.07E-03	-5.57E-03
673.3	5.81E-03	-6.81E-03
674.3	3.94E-03	-9.76E-03
675.4	3.09E-03	-1.13E-02
676.5	3.72E-03	-1.29E-02
677.6	2.53E-03	-1.43E-02
678.6	2.26E-03	-1.44E-02
679.7	9.74E-04	-1.51E-02
680.8	-3.01E-04	-1.69E-02
681.9	-1.33E-03	-1.82E-02
682.9	-2.50E-03	-2.02E-02
684	-2.44E-03	-2.03E-02
685.1	-2.76E-03	-2.15E-02
686.2	-3.30E-03	-2.15E-02
687.2	-3.35E-03	-2.10E-02
688.3	-3.38E-03	-1.95E-02
689.4	-3.81E-03	-1.94E-02
690.4	-4.50E-03	-2.03E-02
691.5	-4.41E-03	-2.13E-02
692.6	-4.67E-03	-2.19E-02
693.7	-5.50E-03	-2.32E-02
694.7	-6.44E-03	-2.44E-02
695.8	-6.37E-03	-2.39E-02
696.9	-5.10E-03	-2.32E-02
698	-4.12E-03	-2.25E-02
699	-3.87E-03	-2.31E-02
700.1	-4.98E-03	-2.41E-02
701.2	-6.75E-03	-2.48E-02
702.2	-7.71E-03	-2.53E-02
703.3	-7.39E-03	-2.48E-02
704.4	-6.08E-03	-2.41E-02
705.5	-6.26E-03	-2.44E-02
706.6	-6.24E-03	-2.52E-02
707.7	-7.91E-03	-2.68E-02
708.8	-7.03E-03	-2.64E-02
709.9	-8.05E-03	-2.63E-02
711	-7.64E-03	-2.57E-02
712.1	-8.59E-03	-2.61E-02
713.2	-8.41E-03	-2.66E-02
714.3	-8.05E-03	-2.72E-02
715.4	-7.98E-03	-2.79E-02
716.5	-8.07E-03	-2.73E-02
717.6	-8.05E-03	-2.76E-02

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718.8	-8.14E-03	-2.74E-02
719.9	-7.54E-03	-2.79E-02
721	-6.75E-03	-2.70E-02
722.1	-6.42E-03	-2.75E-02
723.2	-7.01E-03	-2.71E-02
724.3	-8.04E-03	-2.85E-02
725.4	-8.04E-03	-2.90E-02
726.5	-8.22E-03	-2.88E-02
727.6	-8.17E-03	-2.81E-02
728.7	-8.25E-03	-2.65E-02
729.8	-8.64E-03	-2.73E-02
731	-8.52E-03	-2.62E-02
732.1	-8.86E-03	-2.61E-02
733.2	-8.58E-03	-2.53E-02
734.3	-8.67E-03	-2.69E-02
735.4	-7.53E-03	-2.76E-02
736.5	-6.95E-03	-2.80E-02
737.6	-6.41E-03	-2.76E-02
738.7	-7.64E-03	-2.79E-02
739.8	-7.78E-03	-2.68E-02
740.9	-8.66E-03	-2.73E-02
742.1	-8.13E-03	-2.71E-02
743.2	-7.76E-03	-2.87E-02
744.3	-7.16E-03	-2.89E-02
745.4	-8.34E-03	-3.01E-02
746.5	-9.47E-03	-3.09E-02
747.6	-1.11E-02	-3.12E-02
748.7	-1.02E-02	-3.08E-02
749.8	-9.81E-03	-2.96E-02
750.9	-8.04E-03	-2.86E-02
752	-8.34E-03	-2.85E-02
753.1	-8.49E-03	-2.97E-02
754.3	-9.27E-03	-3.02E-02
755.4	-9.01E-03	-2.97E-02
756.5	-9.59E-03	-2.90E-02
757.6	-9.19E-03	-2.86E-02
758.7	-8.48E-03	-2.86E-02
759.8	-7.87E-03	-2.91E-02
760.9	-8.95E-03	-2.93E-02
762	-9.66E-03	-3.01E-02
763.1	-9.71E-03	-2.93E-02
764.2	-9.50E-03	-2.89E-02
765.3	-9.69E-03	-2.93E-02
766.5	-8.87E-03	-2.96E-02

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767.6	-8.59E-03	-3.03E-02
768.7	-8.70E-03	-2.90E-02
769.8	-8.83E-03	-2.87E-02
770.9	-8.73E-03	-2.80E-02
772	-7.94E-03	-2.75E-02
773.1	-7.48E-03	-2.70E-02
774.2	-7.20E-03	-2.67E-02
775.3	-7.28E-03	-2.79E-02
776.4	-7.83E-03	-2.79E-02
777.6	-7.48E-03	-2.96E-02
778.7	-7.52E-03	-2.90E-02
779.8	-7.09E-03	-2.92E-02
780.9	-8.36E-03	-2.90E-02
782	-8.71E-03	-2.86E-02
783.1	-9.55E-03	-2.88E-02
784.2	-8.80E-03	-2.74E-02
785.3	-8.89E-03	-2.67E-02
786.4	-9.20E-03	-2.64E-02
787.5	-9.84E-03	-2.74E-02
788.6	-9.80E-03	-2.90E-02
789.8	-9.78E-03	-2.91E-02
790.9	-1.04E-02	-2.93E-02
792	-1.06E-02	-2.96E-02
793.1	-1.11E-02	-3.01E-02
794.2	-9.84E-03	-2.96E-02
795.3	-1.09E-02	-3.01E-02
796.4	-1.08E-02	-3.11E-02
797.5	-1.19E-02	-3.17E-02
798.6	-1.18E-02	-3.17E-02
799.7	-1.13E-02	-3.10E-02
800.8	-9.67E-03	-3.02E-02
802	-9.42E-03	-2.82E-02
803.1	-9.92E-03	-2.82E-02
804.2	-1.08E-02	-2.80E-02
805.3	-9.84E-03	-2.84E-02
806.4	-9.02E-03	-2.79E-02
807.5	-7.77E-03	-2.83E-02
808.6	-8.40E-03	-2.79E-02
809.7	-8.02E-03	-2.72E-02
810.8	-9.17E-03	-2.66E-02
811.9	-8.64E-03	-2.62E-02
813.1	-8.58E-03	-2.56E-02
814.2	-8.87E-03	-2.59E-02
815.3	-8.98E-03	-2.60E-02

7.5pH Spectroscopy Curves

816.4	-1.02E-02	-2.75E-02
817.5	-1.02E-02	-2.70E-02
818.6	-1.10E-02	-2.80E-02
819.7	-1.03E-02	-2.76E-02
820.8	-9.96E-03	-2.76E-02
821.9	-9.55E-03	-2.71E-02
823	-9.55E-03	-2.72E-02
824.1	-9.67E-03	-2.86E-02
825.3	-1.01E-02	-2.98E-02
826.4	-1.12E-02	-3.10E-02
827.5	-1.26E-02	-3.16E-02
828.6	-1.14E-02	-3.09E-02
829.7	-1.03E-02	-2.97E-02
830.8	-8.36E-03	-2.96E-02
831.9	-9.16E-03	-3.01E-02
833	-9.56E-03	-3.04E-02
834	-1.08E-02	-3.12E-02
835.1	-1.03E-02	-3.06E-02
836.1	-9.95E-03	-3.12E-02
837.2	-8.24E-03	-2.94E-02
838.2	-8.61E-03	-3.02E-02
839.3	-8.15E-03	-3.08E-02
840.3	-8.54E-03	-3.11E-02
841.4	-8.09E-03	-3.04E-02
842.4	-8.59E-03	-3.08E-02
843.5	-9.68E-03	-3.25E-02
844.5	-1.08E-02	-3.48E-02
845.6	-1.06E-02	-3.51E-02
846.6	-8.47E-03	-3.29E-02
847.7	-8.11E-03	-3.21E-02
848.7	-6.66E-03	-3.08E-02
849.8	-6.06E-03	-3.09E-02
850.8	-5.75E-03	-2.97E-02
851.9	-5.09E-03	-3.01E-02
852.9	-6.49E-03	-3.00E-02
854	-4.63E-03	-2.98E-02
855	-5.66E-03	-2.98E-02
856.1	-3.53E-03	-3.00E-02
857.1	-3.13E-03	-3.06E-02
858.2	-1.87E-03	-3.09E-02
859.2	-1.62E-03	-3.00E-02
860.3	-3.34E-03	-3.08E-02
861.4	-3.74E-03	-3.02E-02
862.4	-5.65E-03	-3.19E-02

7.5pH Spectroscopy Curves

863.5	-4.36E-03	-3.20E-02
864.5	-4.40E-03	-3.19E-02
865.6	-4.01E-03	-3.24E-02
866.6	-3.34E-03	-3.22E-02
867.7	-3.89E-03	-3.39E-02
868.7	-4.09E-03	-3.41E-02
869.8	-5.28E-03	-3.40E-02
870.8	-4.67E-03	-3.36E-02
871.9	-3.78E-03	-3.44E-02
872.9	-2.85E-03	-3.44E-02
874	-1.55E-03	-3.41E-02
875	-1.64E-03	-3.27E-02
876.1	-2.21E-03	-3.39E-02
877.1	-4.04E-03	-3.44E-02
878.2	-4.66E-03	-3.51E-02
879.2	-3.64E-03	-3.50E-02
880.3	-2.53E-03	-3.63E-02
881.3	-1.11E-03	-3.60E-02
882.4	-6.29E-04	-3.55E-02
883.4	4.28E-05	-3.28E-02
884.5	4.52E-04	-3.34E-02
885.5	2.98E-05	-3.27E-02
886.6	5.66E-04	-3.43E-02
887.6	7.79E-05	-3.54E-02
888.7	5.75E-04	-3.67E-02
889.7	-6.68E-04	-3.65E-02
890.8	-7.62E-04	-3.54E-02
891.9	6.44E-04	-3.48E-02
892.9	2.26E-03	-3.49E-02
894	5.43E-03	-3.57E-02
895	4.92E-03	-3.72E-02
896.1	4.32E-03	-3.63E-02
897.1	2.26E-03	-3.73E-02
898.2	3.19E-03	-3.59E-02
899.2	4.40E-03	-3.60E-02
900.3	5.38E-03	-3.35E-02
901.3	6.51E-03	-3.39E-02
902.4	4.59E-03	-3.42E-02
903.4	4.94E-03	-3.37E-02
904.5	2.91E-03	-3.08E-02
905.5	4.43E-03	-2.96E-02
906.6	4.17E-03	-3.04E-02
907.6	4.59E-03	-3.06E-02
908.7	4.70E-03	-2.98E-02

7.5pH Spectroscopy Curves

909.7	4.41E-03	-2.66E-02
910.8	5.49E-03	-2.38E-02
911.8	5.04E-03	-2.38E-02
912.9	4.57E-03	-2.30E-02
913.9	3.65E-03	-2.35E-02
915	3.41E-03	-2.19E-02
916	3.66E-03	-2.21E-02
917.1	2.41E-03	-2.14E-02
918.1	2.70E-03	-1.94E-02
919.2	2.27E-03	-1.62E-02
920.3	3.03E-03	-1.48E-02
921.3	2.76E-03	-1.35E-02
922.4	3.55E-03	-1.25E-02
923.4	3.08E-03	-9.85E-03
924.5	3.49E-03	-9.07E-03
925.5	2.14E-03	-8.33E-03
926.6	2.50E-03	-8.14E-03
927.6	1.89E-03	-7.33E-03
928.7	2.49E-03	-6.70E-03
929.7	2.67E-03	-6.18E-03
930.8	2.81E-03	-6.24E-03
931.8	2.33E-03	-6.63E-03
932.9	4.29E-03	-5.06E-03
933.9	4.59E-03	-3.20E-03
935	5.68E-03	-1.38E-03
936	4.50E-03	-1.43E-03
937.1	3.95E-03	-1.17E-03
938.1	2.88E-03	1.96E-04
939.2	2.13E-03	7.74E-04
940.3	3.51E-03	2.15E-03
941.3	5.27E-03	1.67E-03
942.4	5.00E-03	1.88E-03
943.4	6.03E-03	2.52E-03
944.5	6.27E-03	3.97E-03
945.5	7.44E-03	4.96E-03
946.6	5.11E-03	6.00E-03
947.6	5.11E-03	6.77E-03
948.7	4.84E-03	7.29E-03
949.7	6.18E-03	6.72E-03