

# APPENDIX

## APPENDIX – 1

### X-RD Peak List for ester based calcium ion selective electrode:

Pos. [°2Th.]	Height [cts]	FWHMLeft[°2Th.]	d-spacing [Å]	Rel. Int. [%]
10.4176	437.79	0.0502	8.49183	4.37
10.6919	515.00	0.0502	8.27456	5.14
10.8096	442.58	0.0502	8.18480	4.42
15.6293	168.70	0.1673	5.66996	1.68
16.2728	334.94	0.2007	5.44717	3.34
16.5975	504.36	0.0669	5.34133	5.03
16.7784	463.30	0.0502	5.28414	4.62
17.0134	10022.93	0.0836	5.21167	100.00
17.2399	1572.32	0.0669	5.14370	15.69
17.6601	157.25	0.1171	5.02225	1.57
18.1679	226.97	0.0502	4.88302	2.26
18.4716	426.53	0.0836	4.80340	4.26
19.1864	3173.94	0.0836	4.62604	31.67
19.5318	244.65	0.1338	4.54501	2.44
20.3223	1216.67	0.1004	4.36995	12.14
20.4694	1173.26	0.0669	4.33889	11.71
21.0060	218.13	0.0836	4.22924	2.18
21.3192	141.69	0.1004	4.16781	1.41
21.8362	122.80	0.1004	4.07029	1.23
22.6583	1429.71	0.0502	3.92444	14.26
22.7961	2073.04	0.1171	3.90102	20.68
23.5708	239.13	0.0836	3.77454	2.39
24.0304	1091.00	0.1004	3.70338	10.89
24.2230	1079.84	0.0612	3.67133	10.77
24.3139	1099.81	0.0502	3.66084	10.97
25.0853	4632.71	0.0502	3.54998	46.22
25.4423	2493.90	0.0502	3.50098	24.88
25.6319	667.25	0.0502	3.47551	6.66
25.9932	431.38	0.1338	3.42801	4.30
26.6609	264.24	0.1004	3.34366	2.64
27.1785	769.58	0.1506	3.28114	7.68
28.6181	1782.38	0.0502	3.11928	17.78
28.7656	1525.80	0.0836	3.10362	15.22
30.6578	162.21	0.1338	2.91624	1.62
31.3500	276.90	0.1004	2.85342	2.76
32.5828	343.17	0.1004	2.74822	3.42

32.9213	224.37	0.1632	2.71848	2.24
33.0777	237.93	0.1004	2.70823	2.37
33.3832	263.35	0.0816	2.68192	2.63
33.4761	323.59	0.0669	2.67690	3.23
34.8558	289.81	0.0836	2.57403	2.89
37.7060	293.25	0.0669	2.38576	2.93
38.7006	211.85	0.2342	2.32670	2.11
39.5077	108.68	0.1673	2.28101	1.08
40.4568	286.55	0.1171	2.22966	2.86
41.0758	49.49	0.2007	2.19749	0.49
41.8048	213.70	0.0669	2.16084	2.13
42.1941	184.56	0.1673	2.14180	1.84
43.4086	229.78	0.2007	2.08465	2.29
43.9773	165.07	0.1338	2.05900	1.65

## APPENDIX – 2

### **X-RD Peak List for Schiff base based calcium ion selective electrode:**

Pos. [°2Th.]	Height [cts]	FWHMLeft [°2Th.]	d-spacing [Å]	Rel. Int. [%]
13.9402	752.38	0.0502	6.35293	3.39
14.1218	2520.60	0.0836	6.27164	11.36
14.4533	493.86	0.0502	6.12853	2.23
14.6016	666.68	0.0669	6.06661	3.01
17.7597	221.31	0.0669	4.99430	1.00
18.3799	250.33	0.1004	4.82716	1.13
19.1930	242.53	0.1171	4.62445	1.09
19.7694	318.62	0.0836	4.49090	1.44
20.4125	689.87	0.1338	4.35085	3.11
21.1942	832.09	0.1506	4.19212	3.75
21.8454	4240.97	0.1338	4.06859	19.12
22.7763	146.72	0.1673	3.90438	0.66
23.7783	496.17	0.1004	3.74208	2.24
24.1882	223.09	0.1338	3.67958	1.01
25.2916	22184.69	0.0612	3.51858	100.00
25.3769	20208.59	0.0408	3.51565	91.09
26.6103	611.97	0.1428	3.34713	2.76
27.5967	250.09	0.1224	3.22969	1.13
28.1859	601.29	0.1020	3.16351	2.71
28.3559	750.60	0.0612	3.14493	3.38
28.6254	290.21	0.1224	3.11593	1.31
29.2299	2380.12	0.0612	3.05285	10.73
29.3378	2595.30	0.0816	3.04186	11.70
30.0945	604.85	0.0612	2.96708	2.73
30.1887	842.01	0.0816	2.95803	3.80
30.6614	376.70	0.0816	2.91349	1.70
31.1228	211.74	0.1632	2.87135	0.95
31.7687	167.72	0.2040	2.81443	0.76
32.5180	147.13	0.3264	2.75127	0.66
33.6590	1821.49	0.1020	2.66056	8.21
34.0778	147.08	0.1632	2.62882	0.66
34.4221	171.91	0.1632	2.60331	0.77
35.1679	191.05	0.1224	2.54979	0.86
35.9180	2064.19	0.1020	2.49824	9.30
36.0264	962.45	0.0612	2.49716	4.34
36.6515	107.74	0.3264	2.44991	0.49
37.0207	135.33	0.1224	2.42632	0.61
37.6179	124.97	0.3264	2.38916	0.56
38.1069	132.02	0.2448	2.35962	0.60

39.1442	3173.83	0.0612	2.29945	14.31
39.2508	1372.21	0.0408	2.29915	6.19
40.6677	101.78	0.3264	2.21675	0.46
41.7210	1090.89	0.0612	2.16319	4.92
41.8332	722.70	0.0408	2.16301	3.26
42.5141	489.25	0.1020	2.12465	2.21
43.0679	98.93	0.1632	2.09861	0.45
43.9315	164.64	0.1632	2.05933	0.74
44.4195	454.22	0.0816	2.03784	2.05
44.4964	631.30	0.0612	2.03449	2.85
45.8273	153.61	0.2040	1.97846	0.69

### APPENDIX – 3

#### **X-RD Peak List for Acyclic polyether based calcium ion selective electrode**

Pos. [°2Th.]	Height [cts]	FWHMLeft [°2Th.]	d-spacing [Å]	Rel. Int. [%]
17.0487	348.65	0.1673	5.20097	20.47
18.1429	195.50	0.2342	4.88968	11.48
20.6746	323.57	0.1004	4.29628	19.00
22.3392	826.64	0.1338	3.97978	48.54
23.4440	484.63	0.1338	3.79467	28.46
24.9743	317.84	0.2007	3.56551	18.66
25.9110	900.87	0.1338	3.43870	52.90
26.2330	666.37	0.1338	3.39721	39.13
26.6398	678.86	0.1338	3.34625	39.86
27.1107	448.03	0.2007	3.28920	26.31
28.0424	653.79	0.2342	3.18200	38.39
28.8841	852.58	0.0502	3.09116	50.06
29.7218	1703.13	0.0669	3.00591	100.00
30.3149	1227.50	0.0836	2.94844	72.07
30.9432	469.79	0.1004	2.88999	27.58
31.4489	472.88	0.1673	2.84467	27.77
32.3059	365.76	0.2007	2.77114	21.48
33.4030	683.28	0.1004	2.68259	40.12
35.6461	845.26	0.0669	2.51876	49.63
37.3524	195.18	0.1673	2.40753	11.46
38.6129	151.47	0.2007	2.33179	8.89
43.5260	452.56	0.2676	2.07930	26.57
43.9586	400.79	0.1338	2.05983	23.53
45.1825	367.84	0.2676	2.00684	21.60
46.0890	191.12	0.2007	1.96946	11.22
49.4099	121.20	0.2007	1.84459	7.12
50.0321	114.55	0.2007	1.82310	6.73
51.4969	161.80	0.2676	1.77463	9.50
52.5258	83.82	0.4015	1.74227	4.92
53.9272	150.57	0.4015	1.70026	8.84
57.9022	65.12	0.8029	1.59264	3.82
71.7537	470.35	0.1673	1.31549	27.62

**APPENDIX – 4**

**X-RD Peak List for Surfactant modified zeolite based calcium ion selective electrode:**

Pos. [°2Th.]	Height [cts]	FWHMLeft [°2Th.]	d-spacing [Å]	Rel. Int[%]
14.0363	150.46	0.1673	6.30965	25.51
17.0670	71.88	0.1004	5.19543	12.19
18.8017	501.23	0.0669	4.71981	84.97
20.3029	465.47	0.1171	4.37409	78.91
20.5271	257.57	0.1171	4.32683	43.67
21.4394	182.65	0.0836	4.14473	30.96
24.0016	213.06	0.1338	3.70775	36.12
24.4786	589.87	0.2342	3.63658	100.00
26.6548	82.28	0.2007	3.34441	13.95
27.9142	140.86	0.1004	3.19632	23.88
29.0452	75.83	0.2007	3.07438	12.86
31.7468	124.08	0.2676	2.81865	21.04
33.8474	77.37	0.1673	2.64838	13.12
34.8538	117.47	0.3346	2.57418	19.91
37.7349	92.72	0.2007	2.38400	15.72
40.6332	519.09	0.1004	2.22039	88.00
43.0267	182.95	0.1338	2.10226	31.02
45.5265	31.58	0.6691	1.99247	5.35
53.1379	176.62	0.1171	1.72363	29.94
57.5991	24.57	0.4015	1.60029	4.16
58.5882	63.66	0.2676	1.57562	10.79
60.5616	25.21	0.5353	1.52891	4.27
62.5336	33.00	0.6691	1.48536	5.59
63.7561	84.83	0.1004	1.45980	14.38
64.4095	57.84	0.3346	1.44656	9.81
67.0533	22.44	0.4015	1.39580	3.80
70.7022	34.08	0.2676	1.33245	5.78