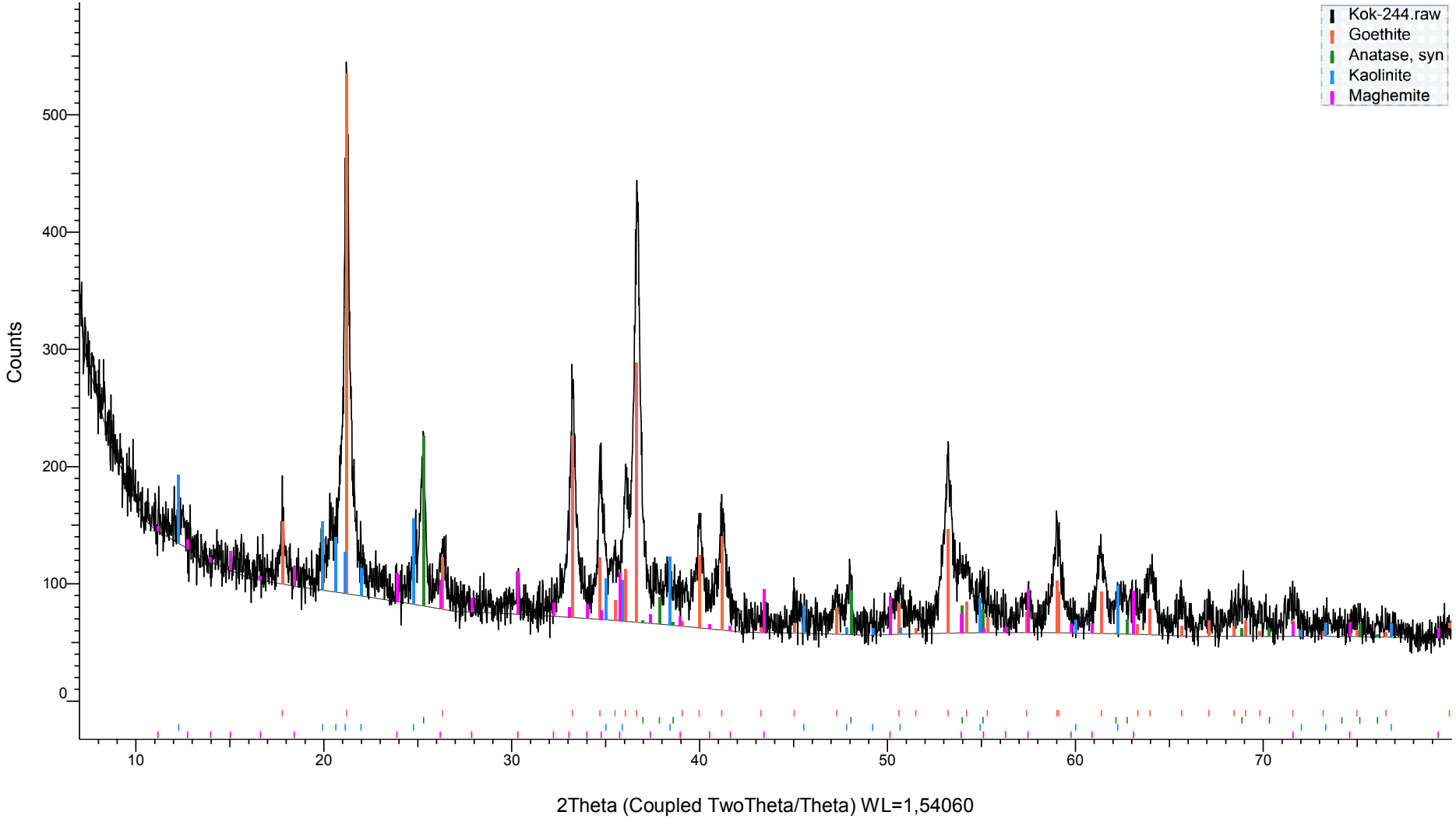
Ověření geologických poměrů podél čedičových žil zadržujících povrchové a podzemní vody na území CHKO Kokořínsko-Máchův kraj. Závěrečná zpráva

Adamovič, Jiří
2017

Commander Sample ID (Coupled TwoTheta/Theta)



Peak List #7

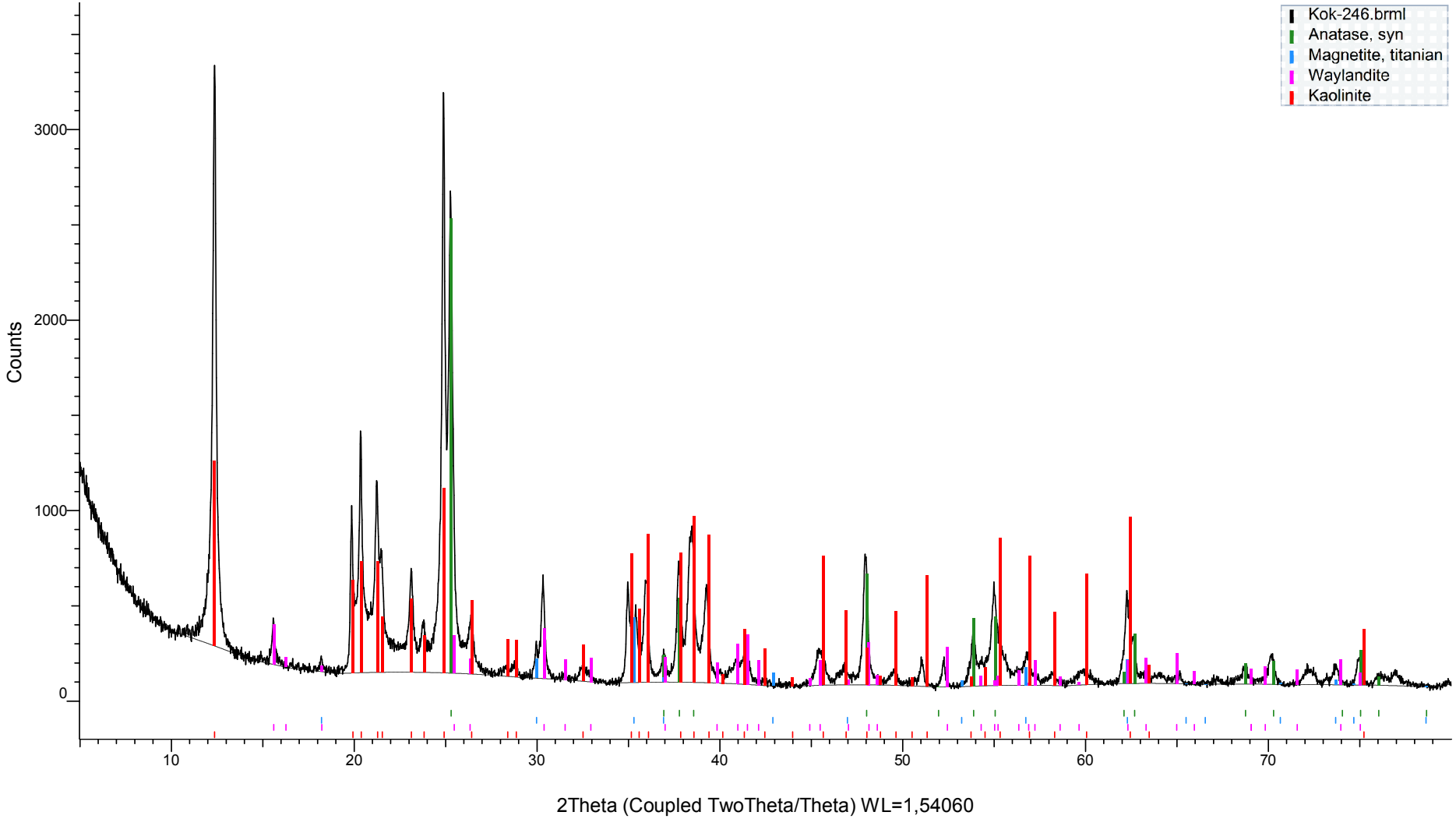
Index	Caption (display)	Scan	Angle	d Value	Net Intensity	Gross Intensity	Rel. Intensity
1	7,13708	Kok-244.raw	12,392	7,13708	40,3	174	8,9%
2	4,97569	Kok-244.raw	17,812	4,97569	88,0	188	19,4%
3	4,36554	Kok-244.raw	20,326	4,36554	82,3	176	18,1%
4	4,18728	Kok-244.raw	21,201	4,18728	444	536	97,9%
5	3,51931	Kok-244.raw	25,286	3,51931	146	227	32,2%
6	3,38305	Kok-244.raw	26,323	3,38305	57,5	136	12,7%
7	2,94000	Kok-244.raw	30,378	2,94000	42,3	116	9,3%
8	2,69175	Kok-244.raw	33,258	2,69175	194	265	42,8%
9	2,58001	Kok-244.raw	34,743	2,58001	151	221	33,4%
10	2,48627	Kok-244.raw	36,097	2,48627	122	190	26,8%
11	2,44800	Kok-244.raw	36,681	2,44800	362	429	79,7%
12	2,38196	Kok-244.raw	37,736	2,38196	55,5	121	12,2%
13	2,25190	Kok-244.raw	40,006	2,25190	87,2	150	19,2%
14	2,18821	Kok-244.raw	41,222	2,18821	96,3	157	21,2%
15	2,00923	Kok-244.raw	45,087	2,00923	34,8	92,6	7,7%
16	1,91777	Kok-244.raw	47,364	1,91778	41,5	98,4	9,2%
17	1,89353	Kok-244.raw	48,009	1,89353	55,8	112	12,3%
18	1,80053	Kok-244.raw	50,658	1,80053	46,2	103	10,2%
19	1,71946	Kok-244.raw	53,230	1,71946	163	221	36,0%
20	1,66914	Kok-244.raw	54,967	1,66914	42,5	101	9,4%
21	1,56307	Kok-244.raw	59,051	1,56307	92,4	151	20,4%
22	1,51033	Kok-244.raw	61,330	1,51033	71,7	129	15,8%
23	1,45194	Kok-244.raw	64,083	1,45194	67,7	124	14,9%
24	1,34601	Kok-244.raw	69,820	1,34600	26,1	81,2	5,8%

Pattern List #8

Icon	Name	Scan	Pattern #	Compound Name	Formula	S-Q	System	Space Group	a	b	c	alpha	beta
	Goethite	Kok-244.raw	PDF 29-0713	Goethite	Fe +3 O (O H)	74,20%	Orthorhombic	Pbnm (62)	4,60800	9,95600	3,02150		
	Anatase, syn	Kok-244.raw	PDF 86-1157	Anatase, syn	Ti0.72 O2	6,75%	Tetragonal	I41/amd (141)	3,78300		9,49700		
	Kaolinite	Kok-244.raw	PDF 01-0527	Kaolinite	Al2 Si2 O5 (O H)4	12,25%	Triclinic		5,14000	8,93000	7,37000	91,800	104,500
	Maghemite	Kok-244.raw	PDF 13-0458	Maghemite	Fe2 O3	6,80%	Tetragonal		8,33800		25,01000		

gamma	Z	Volume	Density	F (N)
	4	138,62	4,000	F30= 47,1(0,0155; 41)
	4	135,91	3,249	F18= 999,9(0,0001; 20)
90,000		327,34	2,580	F19= 1,2(0,0430; 360)
		1738,75		F30= 1,7(0,0560; 316)

Commander Sample ID (Coupled TwoTheta/Theta)



Peak List #11

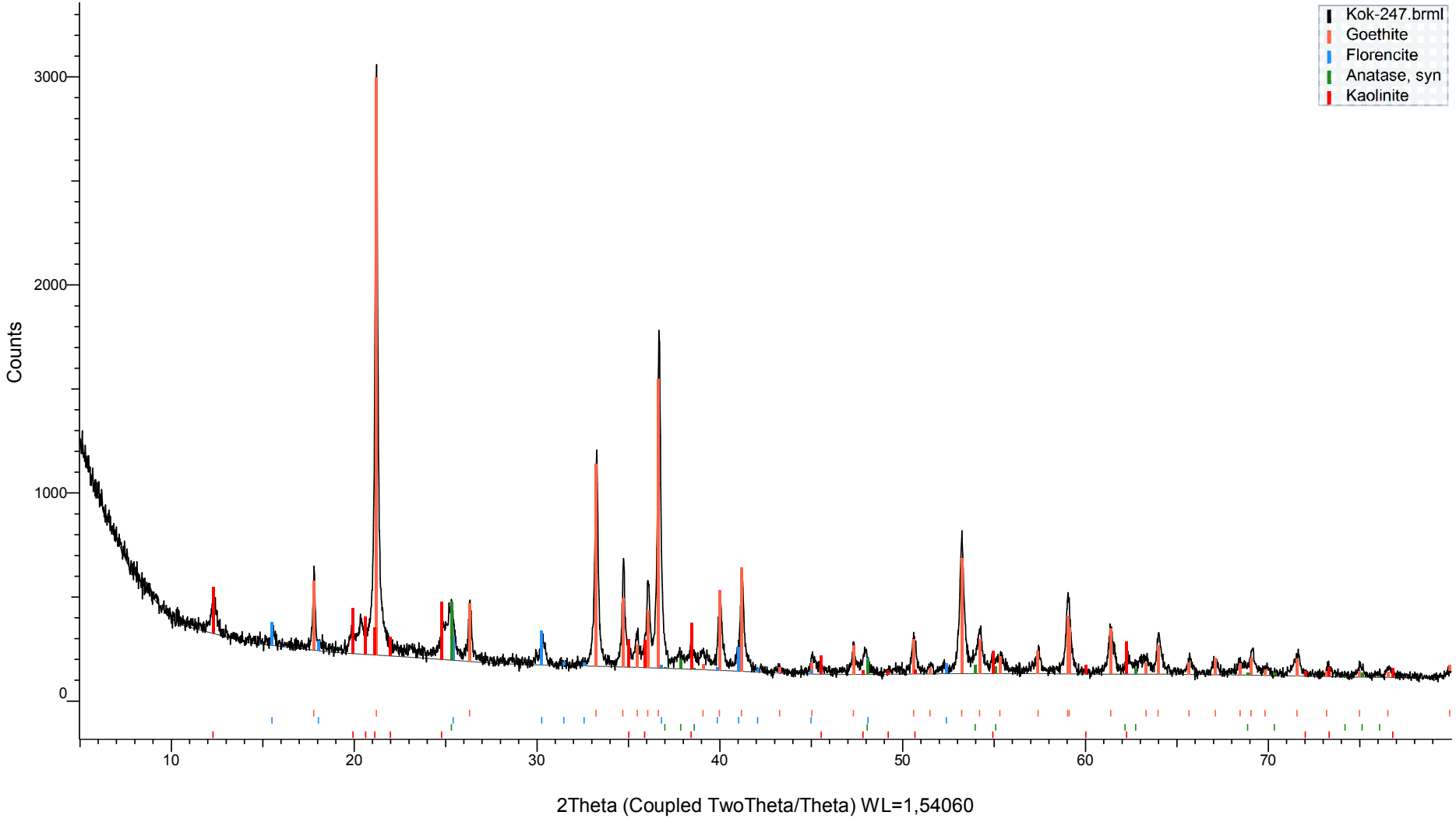
Index	Caption (display)	Scan	Angle	d Value	Net Intensity	Gross Intensity	Rel. Intensity
1	7,15635	Kok-246.brml	12,358	7,15635	2988	3277	98,0%
2	5,67933	Kok-246.brml	15,590	5,67933	237	429	7,8%
3	4,86944	Kok-246.brml	18,204	4,86944	79,7	234	2,6%
4	4,46377	Kok-246.brml	19,874	4,46377	861	1007	28,2%
5	4,35784	Kok-246.brml	20,362	4,35784	1263	1411	41,4%
6	4,17619	Kok-246.brml	21,258	4,17619	1009	1159	33,1%
7	4,13161	Kok-246.brml	21,490	4,13161	613	764	20,1%
8	3,84390	Kok-246.brml	23,120	3,84389	539	690	17,7%
9	3,73580	Kok-246.brml	23,799	3,73580	253	403	8,3%
10	3,57406	Kok-246.brml	24,893	3,57406	3015	3163	98,9%
11	3,52025	Kok-246.brml	25,279	3,52025	2514	2660	82,5%
12	3,37197	Kok-246.brml	26,411	3,37197	319	460	10,5%
13	3,15749	Kok-246.brml	28,241	3,15749	60,1	190	2,0%
14	3,10864	Kok-246.brml	28,694	3,10864	63,1	190	2,1%
15	2,97917	Kok-246.brml	29,969	2,97917	205	324	6,7%
16	2,94550	Kok-246.brml	30,320	2,94550	547	665	18,0%
17	2,75089	Kok-246.brml	32,523	2,75089	77,9	181	2,6%
18	2,56447	Kok-246.brml	34,960	2,56447	532	628	17,5%
19	2,55309	Kok-246.brml	35,121	2,55309	346	442	11,3%
20	2,53127	Kok-246.brml	35,434	2,53128	407	504	13,3%
21	2,49566	Kok-246.brml	35,956	2,49566	532	630	17,5%
22	2,43098	Kok-246.brml	36,947	2,43098	185	284	6,1%
23	2,37868	Kok-246.brml	37,790	2,37868	637	736	20,9%
24	2,33976	Kok-246.brml	38,443	2,33976	790	887	25,9%
25	2,29321	Kok-246.brml	39,255	2,29321	519	615	17,0%
26	2,17987	Kok-246.brml	41,387	2,17987	137	224	4,5%
27	1,99240	Kok-246.brml	45,489	1,99240	178	260	5,9%
28	1,93913	Kok-246.brml	46,811	1,93913	110	194	3,6%
29	1,89497	Kok-246.brml	47,970	1,89497	654	739	21,5%
30	1,83968	Kok-246.brml	49,507	1,83968	82,4	165	2,7%
31	1,78805	Kok-246.brml	51,037	1,78805	112	189	3,7%
32	1,74983	Kok-246.brml	52,235	1,74983	135	208	4,4%
33	1,69996	Kok-246.brml	53,889	1,69996	286	363	9,4%
34	1,68668	Kok-246.brml	54,348	1,68668	146	225	4,8%
35	1,66750	Kok-246.brml	55,026	1,66750	509	590	16,7%
36	1,62018	Kok-246.brml	56,776	1,62018	173	256	5,7%
37	1,58483	Kok-246.brml	58,162	1,58483	67,4	149	2,2%
38	1,54303	Kok-246.brml	59,896	1,54303	79,9	164	2,6%
39	1,48868	Kok-246.brml	62,321	1,48868	428	519	14,0%
40	1,48213	Kok-246.brml	62,628	1,48213	240	332	7,9%
41	1,45346	Kok-246.brml	64,008	1,45346	55,4	147	1,8%
42	1,43242	Kok-246.brml	65,063	1,43242	32,8	123	1,1%
43	1,39175	Kok-246.brml	67,212	1,39175	37,4	126	1,2%
44	1,36472	Kok-246.brml	68,726	1,36472	68,3	157	2,2%
45	1,34005	Kok-246.brml	70,175	1,34005	155	242	5,1%
46	1,30724	Kok-246.brml	72,208	1,30724	75,9	161	2,5%
47	1,30299	Kok-246.brml	72,481	1,30299	71,6	157	2,3%
48	1,28461	Kok-246.brml	73,688	1,28461	88,6	174	2,9%
49	1,26577	Kok-246.brml	74,971	1,26577	141	224	4,6%
50	1,24979	Kok-246.brml	76,099	1,24979	45,3	127	1,5%
51	1,23815	Kok-246.brml	76,945	1,23815	73,4	153	2,4%

Pattern List #12

Icon	Name	Scan	Pattern #	Compound Name	Formula	S-Q	System	Space Group	a
	Anatase, syn	Kok-246.brml	PDF 78-2486	Anatase, syn	Ti O2	26,97%	Tetragonal	I41/amd (141)	3,78450
	Magnetite, titanian	Kok-246.brml	PDF 75-1374	Magnetite, titanian	Fe2.75 Ti0.25 O4	3,80%	Cubic	Fd-3m (227)	8,42360
	Waylandite	Kok-246.brml	PDF 39-0367	Waylandite	(Bi , Ca) Al3 (P O4 , Si O4)2 (O H)6	14,87%	Rhombo.H.axes	R-3m (166)	6,97440
	Kaolinite	Kok-246.brml	PDF 05-0143	Kaolinite	Al2 Si2 O5 (O H)4 / Al2 O3 ·2 Si O2 ·2 H2 O	54,36%	Triclinic		5,14000

b	c	alpha	beta	gamma	Z	Volume	Density	F (N)
	9,51430				4	136,27	3,894	F20= 999,9(0,0001; 20)
					8	597,71	5,101	F18= 999,9(0,0001; 18)
	16,29300				3	686,35		F30= 28,4(0,0260; 40)
8,93000	7,37000	91,130	104,800	90,000		326,99		F30= 3,8(0,0600; 133)

Commander Sample ID (Coupled TwoTheta/Theta)



Peak List #15

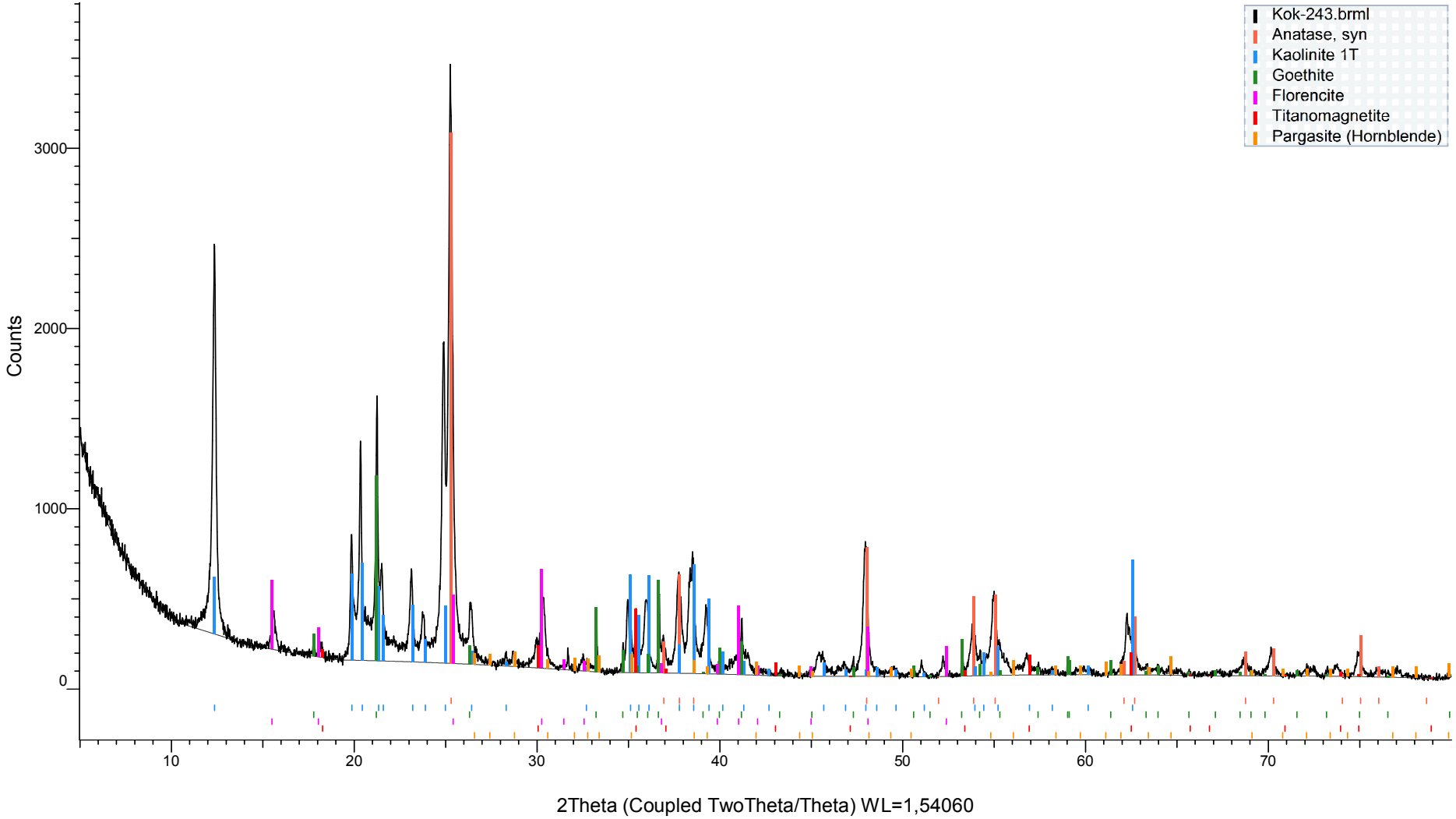
Index	Caption (display)	Scan	Angle	d Value	Net Intensity	Gross Intensity	Rel. Intensity
1	7,16763	Kok-247.brml	12,339	7,16763	159	482	5,6%
2	5,68973	Kok-247.brml	15,562	5,68973	41,7	308	1,5%
3	4,97530	Kok-247.brml	17,813	4,97530	394	638	13,9%
4	4,46103	Kok-247.brml	19,887	4,46103	111	338	3,9%
5	4,35070	Kok-247.brml	20,396	4,35070	150	375	5,3%
6	4,18287	Kok-247.brml	21,224	4,18287	2788	3008	98,2%
7	3,57464	Kok-247.brml	24,889	3,57464	175	374	6,2%
8	3,53480	Kok-247.brml	25,174	3,53480	280	477	9,8%
9	3,51817	Kok-247.brml	25,295	3,51817	244	441	8,6%
10	3,38034	Kok-247.brml	26,344	3,38034	294	483	10,4%
11	2,94329	Kok-247.brml	30,344	2,94329	136	308	4,8%
12	2,69169	Kok-247.brml	33,258	2,69169	989	1156	34,8%
13	2,58005	Kok-247.brml	34,742	2,58005	518	681	18,2%
14	2,52788	Kok-247.brml	35,483	2,52788	175	336	6,2%
15	2,48659	Kok-247.brml	36,092	2,48659	412	571	14,5%
16	2,44618	Kok-247.brml	36,709	2,44618	1631	1789	57,5%
17	2,37765	Kok-247.brml	37,807	2,37765	95,5	250	3,4%
18	2,33852	Kok-247.brml	38,464	2,33852	94,3	246	3,3%
19	2,30433	Kok-247.brml	39,058	2,30433	84,1	234	3,0%
20	2,25090	Kok-247.brml	40,024	2,25090	375	522	13,2%
21	2,18828	Kok-247.brml	41,221	2,18828	454	596	16,0%
22	2,00886	Kok-247.brml	45,095	2,00886	80,2	209	2,8%
23	1,91928	Kok-247.brml	47,325	1,91928	117	245	4,1%
24	1,89517	Kok-247.brml	47,964	1,89517	117	245	4,1%
25	1,80163	Kok-247.brml	50,625	1,80163	181	310	6,4%
26	1,77121	Kok-247.brml	51,558	1,77121	51,6	182	1,8%
27	1,74835	Kok-247.brml	52,283	1,74835	52,2	183	1,8%
28	1,71896	Kok-247.brml	53,246	1,71896	682	813	24,0%
29	1,69015	Kok-247.brml	54,227	1,69015	216	347	7,6%
30	1,65822	Kok-247.brml	55,360	1,65822	104	236	3,7%
31	1,60326	Kok-247.brml	57,431	1,60326	129	260	4,5%
32	1,56276	Kok-247.brml	59,064	1,56276	384	514	13,5%
33	1,50889	Kok-247.brml	61,395	1,50889	215	344	7,6%
34	1,48841	Kok-247.brml	62,334	1,48841	91,7	221	3,2%
35	1,46800	Kok-247.brml	63,300	1,46800	78,5	207	2,8%
36	1,45325	Kok-247.brml	64,018	1,45325	196	325	6,9%
37	1,41974	Kok-247.brml	65,717	1,41974	96,2	224	3,4%
38	1,39428	Kok-247.brml	67,073	1,39428	70,9	197	2,5%
39	1,36950	Kok-247.brml	68,454	1,36950	68,5	193	2,4%
40	1,35797	Kok-247.brml	69,116	1,35797	122	246	4,3%
41	1,31671	Kok-247.brml	71,608	1,31671	89,2	209	3,1%
42	1,29030	Kok-247.brml	73,310	1,29030	67,3	184	2,4%
43	1,26490	Kok-247.brml	75,031	1,26490	61,8	177	2,2%
44	1,24288	Kok-247.brml	76,599	1,24288	50,8	164	1,8%

Pattern List #16

Icon	Name	Scan	Pattern #	Compound Name	Formula	S-Q	System	Space Group	a	b	c
	Goethite	Kok-247.brml	PDF 29-0713	Goethite	Fe +3 O (O H)	84,22%	Orthorhombic	Pbnm (62)	4,60800	9,95600	3,02150
	Florencite	Kok-247.brml	PDF 15-0320	Florencite	Sr - Ce - Ca - Al - P - S - O - F - H	5,00%	Rhombo.H.axes	R-3m (166)	6,97100		16,42000
	Anatase, syn	Kok-247.brml	PDF 86-1157	Anatase, syn	Ti0.72 O2	2,35%	Tetragonal	I41/amd (141)	3,78300		9,49700
	Kaolinite	Kok-247.brml	PDF 01-0527	Kaolinite	Al2 Si2 O5 (O H)4	8,43%	Triclinic		5,14000	8,93000	7,37000

alpha	beta	gamma	Z	Volume	Density	F (N)
			4	138,62	4,000	F30= 47,1(0,0155; 41)
			3	691,03	3,457	F13= 6,4(0,0840; 24)
			4	135,91	3,249	F18= 999,9(0,0001; 20)
91,800	104,500	90,000		327,34	2,580	F19= 1,2(0,0430; 360)

Commander Sample ID (Coupled TwoTheta/Theta)



Peak List #19

Index	Caption (display)	Scan	Angle	d Value	Net Intensity	Gross Intensity	Rel. Intensity
1	7,15605	Kok-243.brml	12,359	7,15604	2159	2465	65,0%
2	5,67663	Kok-243.brml	15,598	5,67663	214	433	6,4%
3	4,97953	Kok-243.brml	17,798	4,97953	119	300	3,6%
4	4,86872	Kok-243.brml	18,206	4,86872	114	290	3,4%
5	4,46112	Kok-243.brml	19,886	4,46112	649	809	19,5%
6	4,35951	Kok-243.brml	20,355	4,35951	1204	1362	36,2%
7	4,17697	Kok-243.brml	21,254	4,17697	1438	1594	43,3%
8	4,13590	Kok-243.brml	21,468	4,13590	483	639	14,6%
9	3,84140	Kok-243.brml	23,135	3,84140	511	662	15,4%
10	3,74065	Kok-243.brml	23,768	3,74065	250	398	7,5%
11	3,57238	Kok-243.brml	24,905	3,57238	1772	1916	53,3%
12	3,52077	Kok-243.brml	25,276	3,52077	3261	3403	98,2%
13	3,37492	Kok-243.brml	26,387	3,37492	339	476	10,2%
14	3,15257	Kok-243.brml	28,286	3,15257	68,1	195	2,1%
15	3,10664	Kok-243.brml	28,713	3,10664	70,6	195	2,1%
16	2,97414	Kok-243.brml	30,021	2,97414	161	278	4,9%
17	2,94413	Kok-243.brml	30,335	2,94413	392	507	11,8%
18	2,82112	Kok-243.brml	31,691	2,82112	117	223	3,5%
19	2,75167	Kok-243.brml	32,513	2,75167	68,1	168	2,1%
20	2,69185	Kok-243.brml	33,256	2,69185	291	385	8,8%
21	2,54908	Kok-243.brml	35,178	2,54908	273	363	8,2%
22	2,58342	Kok-243.brml	34,695	2,58342	163	253	4,9%
23	2,56182	Kok-243.brml	34,997	2,56182	376	467	11,3%
24	2,53101	Kok-243.brml	35,437	2,53101	337	428	10,2%
25	2,49368	Kok-243.brml	35,986	2,49368	402	492	12,1%
26	2,44902	Kok-243.brml	36,665	2,44902	375	463	11,3%
27	2,43329	Kok-243.brml	36,911	2,43329	209	297	6,3%
28	2,37995	Kok-243.brml	37,769	2,37995	553	640	16,6%
29	2,34656	Kok-243.brml	38,327	2,34656	577	663	17,4%
30	2,33782	Kok-243.brml	38,476	2,33782	573	659	17,3%
31	2,29336	Kok-243.brml	39,252	2,29336	369	454	11,1%
32	2,25081	Kok-243.brml	40,026	2,25081	98,4	181	3,0%
33	2,18835	Kok-243.brml	41,219	2,18835	297	376	8,9%
34	2,17598	Kok-243.brml	41,464	2,17598	94,6	173	2,8%
35	1,99510	Kok-243.brml	45,423	1,99510	126	197	3,8%
36	1,98618	Kok-243.brml	45,639	1,98618	134	204	4,0%
37	1,95033	Kok-243.brml	46,527	1,95033	46,8	117	1,4%
38	1,93932	Kok-243.brml	46,807	1,93932	71,2	142	2,1%
39	1,92038	Kok-243.brml	47,296	1,92038	84,6	155	2,5%
40	1,89506	Kok-243.brml	47,968	1,89506	742	812	22,3%
41	1,83924	Kok-243.brml	49,519	1,83924	48,7	118	1,5%
42	1,78757	Kok-243.brml	51,052	1,78757	64,0	131	1,9%
43	1,75000	Kok-243.brml	52,230	1,75000	93,6	162	2,8%
44	1,71758	Kok-243.brml	53,292	1,71758	106	178	3,2%
45	1,70057	Kok-243.brml	53,868	1,70057	297	370	9,0%
46	1,69056	Kok-243.brml	54,213	1,69056	115	189	3,5%
47	1,66844	Kok-243.brml	54,992	1,66843	443	518	13,3%
48	1,64970	Kok-243.brml	55,671	1,64970	81,9	158	2,5%
49	1,61990	Kok-243.brml	56,787	1,61989	120	198	3,6%
50	1,60368	Kok-243.brml	57,414	1,60368	56,7	135	1,7%
51	1,58505	Kok-243.brml	58,153	1,58505	27,9	106	0,8%
52	1,56327	Kok-243.brml	59,043	1,56327	72,0	151	2,2%
53	1,48881	Kok-243.brml	62,315	1,48881	280	358	8,4%

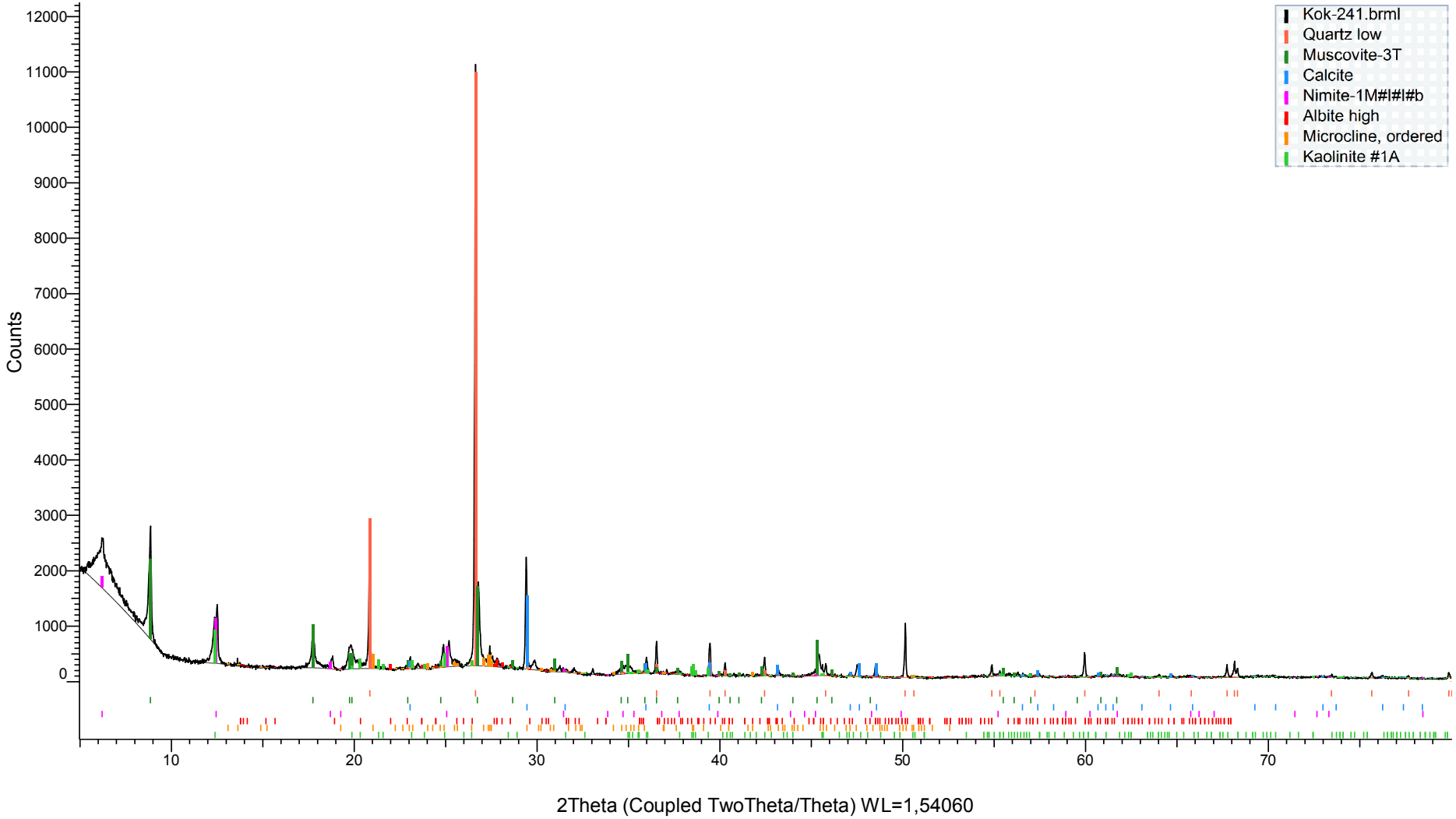
54	1,48344	Kok-243.brml	62,566	1,48344	227	305	6,8%
55	1,46741	Kok-243.brml	63,328	1,46741	59,0	137	1,8%
56	1,45463	Kok-243.brml	63,950	1,45463	59,4	137	1,8%
57	1,42071	Kok-243.brml	65,666	1,42070	29,2	104	0,9%
58	1,36557	Kok-243.brml	68,678	1,36557	95,9	169	2,9%
59	1,34015	Kok-243.brml	70,170	1,34015	150	223	4,5%
60	1,30875	Kok-243.brml	72,112	1,30875	66,6	138	2,0%
61	1,29141	Kok-243.brml	73,236	1,29141	51,6	122	1,6%
62	1,28410	Kok-243.brml	73,722	1,28410	57,4	128	1,7%
63	1,26589	Kok-243.brml	74,963	1,26589	128	196	3,8%
64	1,25141	Kok-243.brml	75,983	1,25141	39,5	106	1,2%
65	1,23622	Kok-243.brml	77,087	1,23621	40,9	105	1,2%

Pattern List #20

Icon	Name	Scan	Pattern #	Compound Name	Formula	S-Q
	Anatase, syn	Kok-243.brml	PDF 78-2486	Anatase, syn	Ti O2	19,84%
	Kaolinite 1T	Kok-243.brml	PDF 12-0447	Kaolinite 1T	Al2 Si2 O5 (O H)4	21,30%
	Goethite	Kok-243.brml	PDF 29-0713	Goethite	Fe +3 O (O H)	34,41%
	Florencite	Kok-243.brml	PDF 15-0320	Florencite	Sr - Ce - Ca - Al - P - S - O - F - H	18,36%
	Titanomagnetite	Kok-243.brml	PDF 74-2034	Titanomagnetite	(Fe4.20 Fe5.245 Ti4.726 Al.706 Mg.400 Cr.310 V.155) (Fe7.820 Mn0.114 Si0.067) O32	2,63%
	Pargasite (Hornblende)	Kok-243.brml	PDF 11-0493	Pargasite (Hornblende)	(Na , K) Ca2 Mg4 Al3 Si6 O22 (O H)2	3,46%

System	Space Group	a	b	c	alpha	beta	gamma	Z	Volume	Density	F (N)
Tetragonal	I41/amd (141)	3,78450		9,51430				4	136,27	3,894	F20= 999,9(0,0001; 20)
Triclinic		5,14000	8,93000	6,91250	91,800	104,500	90,000		307,02		F30= 1,3(0,1220; 195)
Orthorhombic	Pbnm (62)	4,60800	9,95600	3,02150				4	138,62	4,000	F30= 47,1(0,0155; 41)
Rhombo.H.axes	R-3m (166)	6,97100		16,42000				3	691,03	3,457	F13= 6,4(0,0840; 24)
Cubic	Fd-3m (227)	8,39760						1	592,20	4,977	F18= 999,9(0,0001; 18)
Monoclinic	C2/m (12)	9,80000	17,90000	5,30000		106,000		2	893,71		F30= 1,1(0,1040; 259)

Commander Sample ID (Coupled TwoTheta/Theta)



Peak List #23

Index	Caption (display)	Scan	Angle	d Value	Net Intensity	Gross Intensity	Rel. Intensity
1	14,21757	Kok-241.brml	6,212	14,21757	892	2584	8,2%
2	9,95716	Kok-241.brml	8,874	9,95716	2111	2872	19,5%
3	7,15044	Kok-241.brml	12,369	7,15044	790	1119	7,3%
4	7,06063	Kok-241.brml	12,527	7,06063	1031	1356	9,5%
5	6,49521	Kok-241.brml	13,622	6,49521	89,6	382	0,8%
6	4,98954	Kok-241.brml	17,762	4,98953	653	900	6,0%
7	4,71839	Kok-241.brml	18,792	4,71839	188	413	1,7%
8	4,47591	Kok-241.brml	19,820	4,47591	430	654	4,0%
9	4,25737	Kok-241.brml	20,848	4,25737	2301	2536	21,2%
10	3,85642	Kok-241.brml	23,044	3,85642	154	387	1,4%
11	3,78451	Kok-241.brml	23,488	3,78451	89,9	325	0,8%
12	3,73496	Kok-241.brml	23,804	3,73496	55,1	289	0,5%
13	3,57400	Kok-241.brml	24,893	3,57400	386	644	3,6%
14	3,53278	Kok-241.brml	25,188	3,53278	459	726	4,2%
15	3,48937	Kok-241.brml	25,507	3,48937	122	396	1,1%
16	3,34279	Kok-241.brml	26,646	3,34279	10706	10989	98,7%
17	3,32206	Kok-241.brml	26,815	3,32206	1487	1769	13,7%
18	3,24956	Kok-241.brml	27,425	3,24956	332	606	3,1%
19	3,23300	Kok-241.brml	27,568	3,23300	161	432	1,5%
20	3,20551	Kok-241.brml	27,809	3,20551	144	409	1,3%
21	3,03367	Kok-241.brml	29,419	3,03366	1997	2221	18,4%
22	2,99101	Kok-241.brml	29,848	2,99101	150	361	1,4%
23	2,89982	Kok-241.brml	30,810	2,89982	68,0	247	0,6%
24	2,86272	Kok-241.brml	31,219	2,86272	81,4	255	0,8%
25	2,79285	Kok-241.brml	32,021	2,79285	50,8	204	0,5%
26	2,70754	Kok-241.brml	33,058	2,70755	101	230	0,9%
27	2,58280	Kok-241.brml	34,704	2,58280	132	267	1,2%
28	2,56487	Kok-241.brml	34,955	2,56487	195	336	1,8%
29	2,49316	Kok-241.brml	35,994	2,49316	279	430	2,6%
30	2,45719	Kok-241.brml	36,539	2,45719	571	720	5,3%
31	2,42191	Kok-241.brml	37,091	2,42191	54,8	198	0,5%
32	2,38298	Kok-241.brml	37,719	2,38298	63,5	192	0,6%
33	2,28203	Kok-241.brml	39,455	2,28203	564	667	5,2%
34	2,23644	Kok-241.brml	40,294	2,23644	235	336	2,2%
35	2,21000	Kok-241.brml	40,798	2,21000	39,3	139	0,4%
36	2,12796	Kok-241.brml	42,445	2,12796	316	421	2,9%
37	2,09288	Kok-241.brml	43,192	2,09288	166	269	1,5%
38	1,99516	Kok-241.brml	45,422	1,99516	380	486	3,5%
39	1,98769	Kok-241.brml	45,603	1,98769	152	257	1,4%
40	1,98098	Kok-241.brml	45,766	1,98098	140	245	1,3%
41	1,92570	Kok-241.brml	47,158	1,92570	65,9	154	0,6%
42	1,91131	Kok-241.brml	47,535	1,91131	205	289	1,9%
43	1,87409	Kok-241.brml	48,539	1,87409	190	270	1,8%
44	1,81789	Kok-241.brml	50,141	1,81789	877	949	8,1%
45	1,67135	Kok-241.brml	54,888	1,67135	199	294	1,8%
46	1,65985	Kok-241.brml	55,301	1,65985	61,6	160	0,6%
47	1,64552	Kok-241.brml	55,825	1,64552	32,1	131	0,3%
48	1,63278	Kok-241.brml	56,299	1,63278	63,4	158	0,6%
49	1,62429	Kok-241.brml	56,620	1,62429	37,0	129	0,3%
50	1,60324	Kok-241.brml	57,432	1,60324	62,0	148	0,6%
51	1,54161	Kok-241.brml	59,957	1,54161	430	509	4,0%
52	1,52435	Kok-241.brml	60,706	1,52435	60,8	145	0,6%
53	1,50077	Kok-241.brml	61,764	1,50077	31,6	123	0,3%

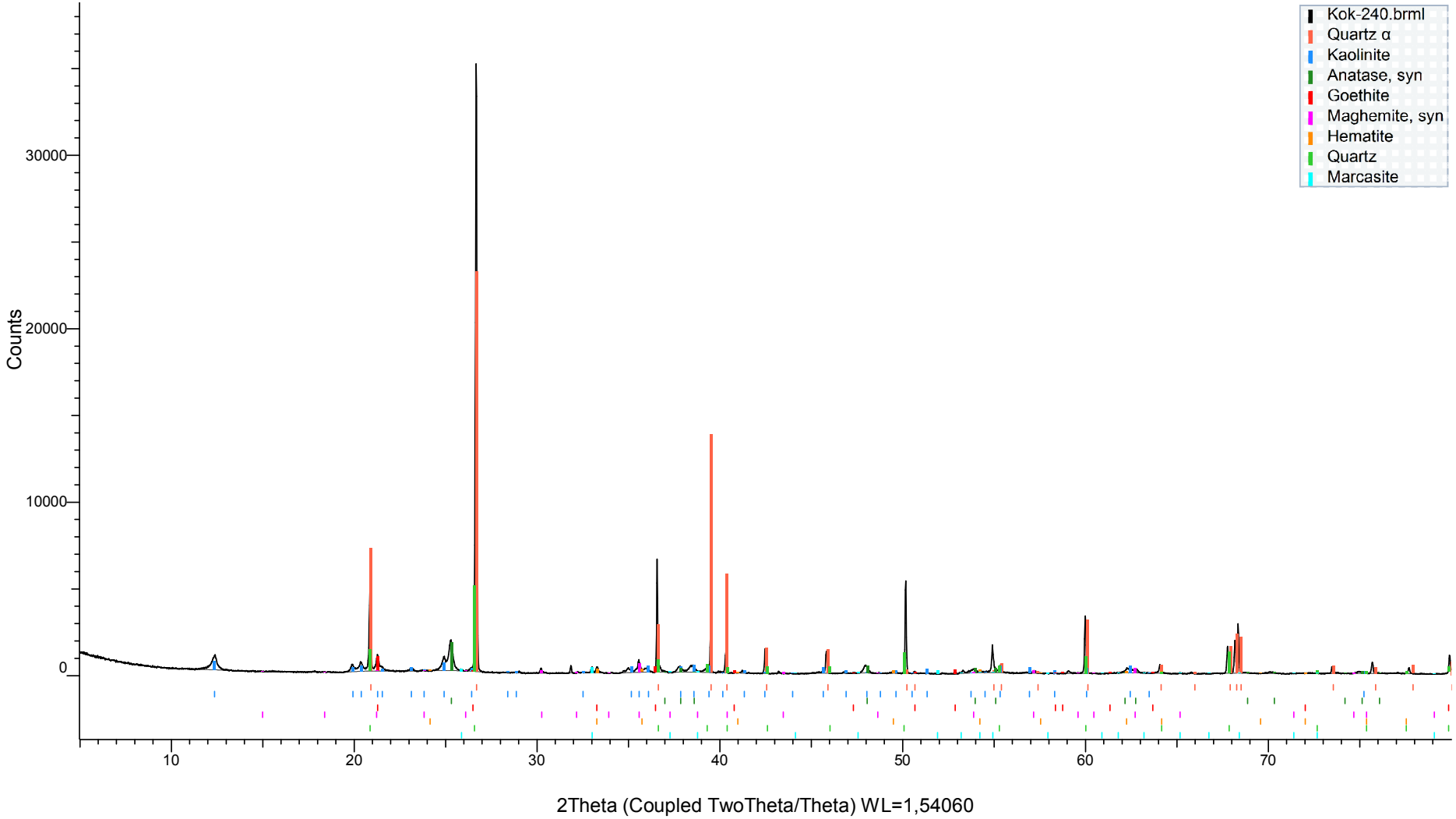
54	1,45347	Kok-241.brml	64,007	1,45347	43,0	117	0,4%
55	1,43934	Kok-241.brml	64,712	1,43934	24,8	98,8	0,2%
56	1,38213	Kok-241.brml	67,742	1,38213	217	293	2,0%
57	1,37505	Kok-241.brml	68,139	1,37504	256	332	2,4%
58	1,37265	Kok-241.brml	68,275	1,37265	120	196	1,1%
59	1,28831	Kok-241.brml	73,441	1,28831	30,2	105	0,3%
60	1,25601	Kok-241.brml	75,655	1,25601	79,8	145	0,7%
61	1,24761	Kok-241.brml	76,256	1,24761	28,3	93,8	0,3%
62	1,22889	Kok-241.brml	77,633	1,22889	24,3	83,3	0,2%

Pattern List #25

Icon	Name	Scan	Pattern #	Compound Name	Formula	S-Q	System	Space Group	a
	Quartz low	Kok-241.brml	PDF 85-0335	Quartz low	Si O2	95,45%	Hexagonal	P3221 (154)	4,91340
	Muscovite-3T	Kok-241.brml	PDF 07-0042	Muscovite-3T	(K , Na) (Al , Mg , Fe)2 (Si3.1 Al0.9) O10 (O H)2	1,79%	Hexagonal	P3121 (152)	5,20300
	Calcite	Kok-241.brml	PDF 72-1652	Calcite	Ca C O3	0,52%	Rhombo.H.axes	R-3c (167)	4,99000
	Nimite-1M#l#l#b	Kok-241.brml	PDF 22-0712	Nimite-1M#l#l#b	(Ni , Mg , Al)6 (Si , Al)4 O10 (O H)8	1,03%	Monoclinic	C2/m (12)	5,32000
	Albite high	Kok-241.brml	PDF 71-1150	Albite high	Na (Al Si3 O8)	0,25%	Triclinic	C-1 (2)	8,15350
	Microcline, ordered	Kok-241.brml	PDF 19-0926	Microcline, ordered	K Al Si3 O8	0,33%	Triclinic	C-1 (2)	8,58100
	Kaolinite #1A	Kok-241.brml	PDF 75-1593	Kaolinite #1A	Al2 Si2 O5 (O H)4	0,64%	Triclinic	C1 (1)	5,14000

b	c	alpha	beta	gamma	Z	Volume	Density	F (N)
	5,40520				3	113,01	2,648	F29= 999,9(0,0001; 29)
	29,98800				3	703,05	2,820	F28= 13,9(0,0290; 69)
	17,00200				6	366,63	2,719	F30= 999,9(0,0001; 30)
9,21400	14,30200		97,100		2	695,69	3,190	F29= 4,9(0,0240; 244)
12,86940	7,10700	93,521	116,458	90,257	4	332,98	2,615	F30= 83,2(0,0084; 43)
12,96100	7,22300	90,650	115,940	87,630	4	360,88	2,560	F30= 46,9(0,0169; 38)
8,93000	7,37000	91,800	104,500	90,000	2	163,67	2,619	F30= 999,9(0,0000; 33)

Commander Sample ID (Coupled TwoTheta/Theta)



Peak List #27

Index	Caption (display)	Scan	Angle	d Value	Net Intensity	Gross Intensity	Rel. Intensity
1	7,14946	Kok-240.brml	12,370	7,14946	811	1139	2,3%
2	4,45317	Kok-240.brml	19,922	4,45317	420	640	1,2%
3	4,35402	Kok-240.brml	20,380	4,35402	500	741	1,4%
4	4,24994	Kok-240.brml	20,885	4,24994	5290	5544	15,1%
5	4,16965	Kok-240.brml	21,292	4,16965	908	1166	2,6%
6	3,83865	Kok-240.brml	23,152	3,83865	141	399	0,4%
7	3,56725	Kok-240.brml	24,941	3,56725	792	1079	2,3%
8	3,51859	Kok-240.brml	25,292	3,51859	1755	2039	5,0%
9	3,44959	Kok-240.brml	25,806	3,44959	77,9	349	0,2%
10	3,33880	Kok-240.brml	26,678	3,33880	34803	35031	99,3%
11	3,07373	Kok-240.brml	29,027	3,07373	108	254	0,3%
12	2,95302	Kok-240.brml	30,241	2,95302	278	414	0,8%
13	2,80634	Kok-240.brml	31,863	2,80633	420	563	1,2%
14	2,77159	Kok-240.brml	32,273	2,77159	43,6	194	0,1%
15	2,71094	Kok-240.brml	33,016	2,71094	338	495	1,0%
16	2,68876	Kok-240.brml	33,296	2,68876	346	500	1,0%
17	2,62772	Kok-240.brml	34,093	2,62772	46,2	186	0,1%
18	2,56021	Kok-240.brml	35,020	2,56021	252	418	0,7%
19	2,52103	Kok-240.brml	35,582	2,52103	714	899	2,0%
20	2,49223	Kok-240.brml	36,008	2,49223	244	436	0,7%
21	2,45456	Kok-240.brml	36,580	2,45456	6390	6582	18,2%
22	2,37750	Kok-240.brml	37,810	2,37750	335	527	1,0%
23	2,33760	Kok-240.brml	38,480	2,33760	381	577	1,1%
24	2,29174	Kok-240.brml	39,281	2,29174	196	375	0,6%
25	2,27971	Kok-240.brml	39,497	2,27971	2341	2511	6,7%
26	2,25310	Kok-240.brml	39,983	2,25310	63,8	219	0,2%
27	2,23512	Kok-240.brml	40,319	2,23512	1038	1188	3,0%
28	2,18662	Kok-240.brml	41,254	2,18662	130	270	0,4%
29	2,12599	Kok-240.brml	42,486	2,12599	1418	1531	4,0%
30	2,09032	Kok-240.brml	43,247	2,09032	79,9	195	0,2%
31	2,00657	Kok-240.brml	45,150	2,00657	33,0	159	0,1%
32	1,97837	Kok-240.brml	45,829	1,97837	1222	1353	3,5%
33	1,93919	Kok-240.brml	46,810	1,93919	40,4	170	0,1%
34	1,89451	Kok-240.brml	47,982	1,89451	443	586	1,3%
35	1,83943	Kok-240.brml	49,514	1,83943	110	239	0,3%
36	1,81675	Kok-240.brml	50,175	1,81675	5264	5388	15,0%
37	1,80028	Kok-240.brml	50,666	1,80028	112	234	0,3%
38	1,77658	Kok-240.brml	51,391	1,77658	50,3	159	0,1%
39	1,75060	Kok-240.brml	52,210	1,75060	32,8	130	0,1%
40	1,71655	Kok-240.brml	53,327	1,71655	148	274	0,4%
41	1,70027	Kok-240.brml	53,879	1,70027	213	364	0,6%
42	1,67014	Kok-240.brml	54,932	1,67014	1375	1542	3,9%
43	1,65832	Kok-240.brml	55,357	1,65832	438	598	1,2%
44	1,61979	Kok-240.brml	56,791	1,61979	31,7	173	0,1%
45	1,60900	Kok-240.brml	57,207	1,60900	101	238	0,3%
46	1,56197	Kok-240.brml	59,097	1,56197	142	261	0,4%
47	1,54068	Kok-240.brml	59,997	1,54068	3272	3396	9,3%
48	1,48842	Kok-240.brml	62,333	1,48842	248	395	0,7%
49	1,47951	Kok-240.brml	62,751	1,47951	233	380	0,7%
50	1,45228	Kok-240.brml	64,066	1,45228	478	607	1,4%
51	1,42997	Kok-240.brml	65,188	1,42997	36,4	143	0,1%
52	1,41805	Kok-240.brml	65,805	1,41805	89,6	194	0,3%
53	1,38144	Kok-240.brml	67,781	1,38144	1527	1663	4,4%

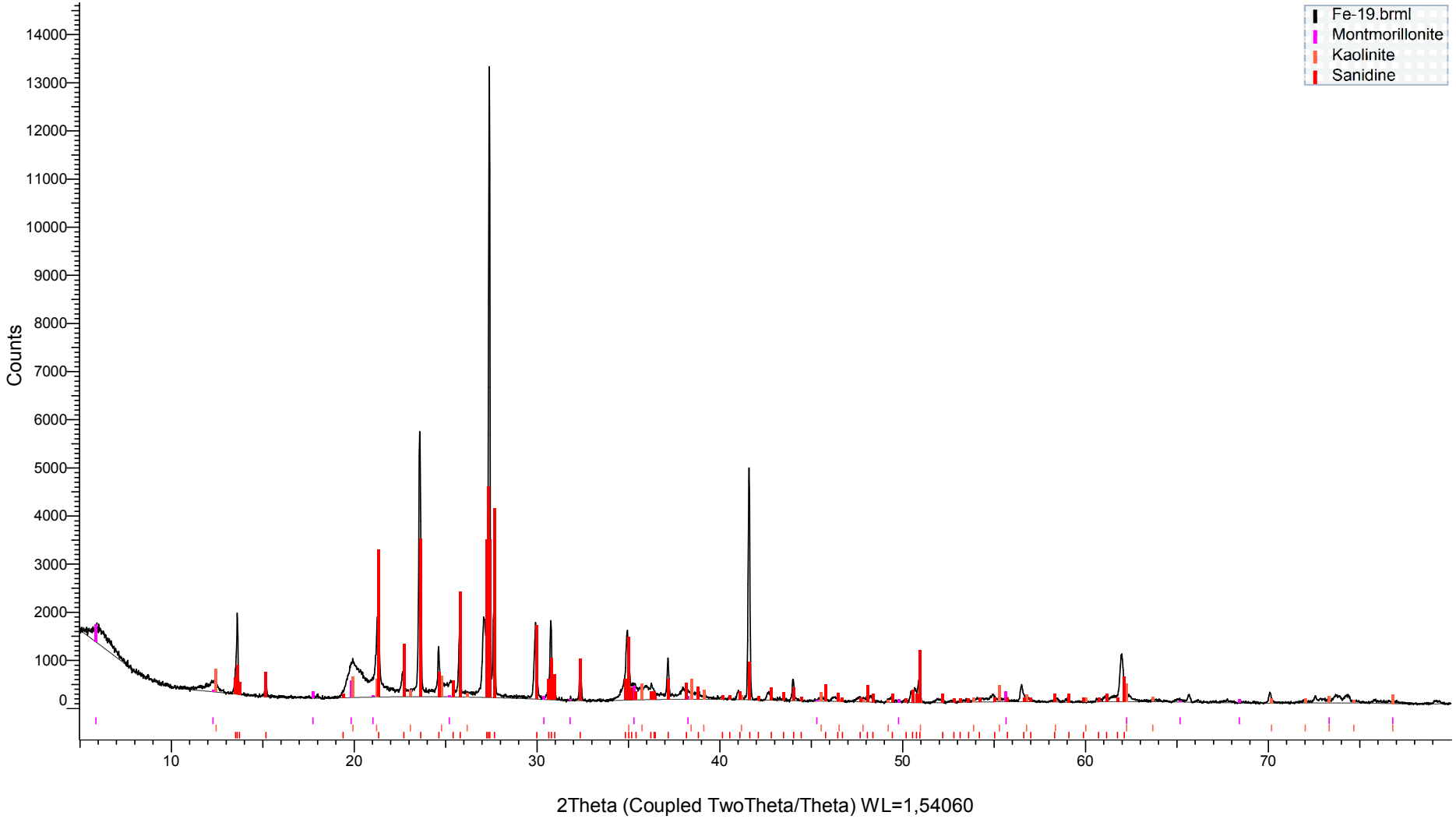
54	1,37419	Kok-240.brml	68,187	1,37419	1794	1936	5,1%
55	1,37153	Kok-240.brml	68,338	1,37153	2396	2538	6,8%
56	1,34067	Kok-240.brml	70,138	1,34067	83,6	202	0,2%
57	1,28721	Kok-240.brml	73,515	1,28721	385	505	1,1%
58	1,26550	Kok-240.brml	74,990	1,26550	100	224	0,3%
59	1,25549	Kok-240.brml	75,692	1,25549	632	758	1,8%
60	1,23656	Kok-240.brml	77,062	1,23656	44,1	161	0,1%
61	1,22798	Kok-240.brml	77,701	1,22798	338	445	1,0%

Pattern List #28

Icon	Name	Scan	Pattern #	Compound Name	Formula	S-Q	System	Space Group	a	b
	Quartz α	Kok-240.brml	PDF 85-0865	Quartz α	Si O2	56,85%	Hexagonal	P3121 (152)	4,90000	
	Kaolinite	Kok-240.brml	PDF 05-0143	Kaolinite	Al2 Si2 O5 (O H)4 / Al2 O3 ·2 Si O2 ·2 H2 O	2,72%	Triclinic		5,14000	8,93000
	Anatase, syn	Kok-240.brml	PDF 86-1157	Anatase, syn	Ti0.72 O2	2,53%	Tetragonal	I41/amd (141)	3,78300	
	Goethite	Kok-240.brml	PDF 03-0251	Goethite	Fe +3 O (O H)	4,61%				
	Maghemite, syn	Kok-240.brml	PDF 04-0755	Maghemite, syn	Fe2 O3	2,86%	Cubic		8,35000	
	Hematite	Kok-240.brml	PDF 01-1053	Hematite	Fe2 O3	1,41%	Rhombo.H.axes	R-3c (167)	5,02800	
	Quartz	Kok-240.brml	PDF 01-0649	Quartz	Si O2	27,41%	Hexagonal	P312 (149)	4,90300	
	Marcasite	Kok-240.brml	PDF 03-0799	Marcasite	Fe S2	1,61%	Orthorhombic	Pnnm (58)	4,44500	5,42500

c	alpha	beta	gamma	Z	Volume	Density	F (N)
5,40000				3	112,28	2,665	F29= 999,9(0,0001; 29)
7,37000	91,130	104,800	90,000		326,99		F30= 3,8(0,0600; 133)
9,49700				4	135,91	3,249	F18= 999,9(0,0001; 20)
					0,00		
					582,18		F24= 4,4(0,1070; 51)
13,73000				2	300,60	5,260	F23= 7,0(0,0550; 60)
5,39300				3	112,28	2,649	F22= 5,9(0,0980; 38)
3,38800				2	81,70	4,887	F29= 8,3(0,0620; 57)

Commander Sample ID (Coupled TwoTheta/Theta)



Peak List #30

Index	Caption (display)	Scan	Angle	d Value	Net Intensity	Gross Intensity	Rel. Intensity
1	14,65682	Fe-19.brml	6,025	14,65682	303	1644	2,3%
2	7,18615	Fe-19.brml	12,307	7,18615	209	554	1,6%
3	6,95885	Fe-19.brml	12,711	6,95885	55,2	385	0,4%
4	6,50976	Fe-19.brml	13,591	6,50976	1239	1534	9,5%
5	5,83359	Fe-19.brml	15,176	5,83359	257	500	2,0%
6	4,92962	Fe-19.brml	17,980	4,92962	61,5	274	0,5%
7	4,45082	Fe-19.brml	19,933	4,45082	802	1028	6,1%
8	4,16881	Fe-19.brml	21,296	4,16881	1429	1666	10,9%
9	3,91915	Fe-19.brml	22,670	3,91915	522	764	4,0%
10	3,76818	Fe-19.brml	23,591	3,76818	5505	5749	42,0%
11	3,61193	Fe-19.brml	24,628	3,61193	1019	1262	7,8%
12	3,51873	Fe-19.brml	25,291	3,51873	344	584	2,6%
13	3,45567	Fe-19.brml	25,760	3,45567	1309	1547	10,0%
14	3,28796	Fe-19.brml	27,098	3,28796	1675	1903	12,8%
15	3,25417	Fe-19.brml	27,385	3,25417	13085	13311	99,8%
16	3,22452	Fe-19.brml	27,642	3,22452	1815	2039	13,8%
17	2,98336	Fe-19.brml	29,926	2,98336	1593	1787	12,2%
18	2,90393	Fe-19.brml	30,765	2,90393	1633	1813	12,5%
19	2,88635	Fe-19.brml	30,957	2,88635	272	448	2,1%
20	2,76298	Fe-19.brml	32,376	2,76298	740	901	5,6%
21	2,56493	Fe-19.brml	34,954	2,56493	1450	1623	11,1%
22	2,54201	Fe-19.brml	35,279	2,54201	323	499	2,5%
23	2,49484	Fe-19.brml	35,969	2,49484	261	442	2,0%
24	2,47542	Fe-19.brml	36,261	2,47542	333	516	2,5%
25	2,41715	Fe-19.brml	37,166	2,41715	857	1045	6,5%
26	2,36613	Fe-19.brml	37,998	2,36613	259	449	2,0%
27	2,31714	Fe-19.brml	38,833	2,31714	257	448	2,0%
28	2,22376	Fe-19.brml	40,534	2,22376	35,5	222	0,3%
29	2,19856	Fe-19.brml	41,019	2,19856	192	376	1,5%
30	2,16894	Fe-19.brml	41,605	2,16894	4794	4974	36,6%
31	2,11667	Fe-19.brml	42,682	2,11667	177	349	1,4%
32	2,05560	Fe-19.brml	44,015	2,05560	442	603	3,4%
33	1,98934	Fe-19.brml	45,562	1,98934	70,2	221	0,5%
34	1,96095	Fe-19.brml	46,260	1,96095	84,2	232	0,6%
35	1,90755	Fe-19.brml	47,634	1,90755	102	240	0,8%
36	1,88451	Fe-19.brml	48,253	1,88451	136	268	1,0%
37	1,84452	Fe-19.brml	49,368	1,84452	104	228	0,8%
38	1,81867	Fe-19.brml	50,118	1,81867	64,4	187	0,5%
39	1,80584	Fe-19.brml	50,499	1,80584	210	331	1,6%
40	1,79990	Fe-19.brml	50,677	1,79990	351	471	2,7%
41	1,79327	Fe-19.brml	50,878	1,79327	444	563	3,4%
42	1,75850	Fe-19.brml	51,958	1,75850	86,4	206	0,7%
43	1,71170	Fe-19.brml	53,490	1,71170	57,6	188	0,4%
44	1,69289	Fe-19.brml	54,133	1,69289	66,3	200	0,5%
45	1,66999	Fe-19.brml	54,937	1,66999	145	282	1,1%
46	1,65025	Fe-19.brml	55,651	1,65025	113	252	0,9%
47	1,62664	Fe-19.brml	56,530	1,62664	332	470	2,5%
48	1,57763	Fe-19.brml	58,453	1,57763	72,7	206	0,6%
49	1,56461	Fe-19.brml	58,987	1,56461	74,2	205	0,6%
50	1,52520	Fe-19.brml	60,669	1,52520	56,5	194	0,4%
51	1,51597	Fe-19.brml	61,078	1,51597	87,0	226	0,7%
52	1,50439	Fe-19.brml	61,599	1,50439	104	244	0,8%
53	1,49603	Fe-19.brml	61,981	1,49603	936	1078	7,1%

54	1,48865	Fe-19.brml	62,322	1,48865	155	297	1,2%
55	1,45913	Fe-19.brml	63,730	1,45913	46,2	187	0,4%
56	1,43245	Fe-19.brml	65,061	1,43245	50,0	185	0,4%
57	1,42085	Fe-19.brml	65,659	1,42085	133	263	1,0%
58	1,41193	Fe-19.brml	66,127	1,41192	29,1	156	0,2%
59	1,38204	Fe-19.brml	67,747	1,38204	57,3	175	0,4%
60	1,34118	Fe-19.brml	70,108	1,34118	217	326	1,7%
61	1,31019	Fe-19.brml	72,021	1,31019	58,8	172	0,4%
62	1,30139	Fe-19.brml	72,585	1,30139	129	243	1,0%
63	1,28384	Fe-19.brml	73,739	1,28384	145	260	1,1%
64	1,27531	Fe-19.brml	74,315	1,27532	132	246	1,0%
65	1,25362	Fe-19.brml	75,825	1,25362	79,8	187	0,6%
66	1,20835	Fe-19.brml	79,208	1,20835	71,5	165	0,5%

Pattern List #31

Icon	Name	Scan	Pattern #	Compound Name	Formula	S-Q	System	Space Group	a	b	c	alpha
	Montmorillonite	Fe-19.brml	PDF 03-0014	Montmorillonite	Mg O · Al2 O3 ·5 Si O2 ·x H2 O	6,91%						
	Kaolinite	Fe-19.brml	PDF 03-0052	Kaolinite	Al2 O3 ·2 Si O2 ·2 H2 O	9,18%	Triclinic		5,14000	8,93000	7,37000	91,100
	Sanidine	Fe-19.brml	PDF 19-1227	Sanidine	(K , Na) (Si3 Al) O8	83,92%	Monoclinic	C2/m (12)	8,42700	13,00000	7,16800	

beta	gamma	Z	Volume	Density	F (N)
105,000	90,000		326,69	2,590	F28= 1,1(0,0730; 358)
116,100		4	705,19	2,540	F30= 83,7(0,0105; 34)