LAMPIRAN

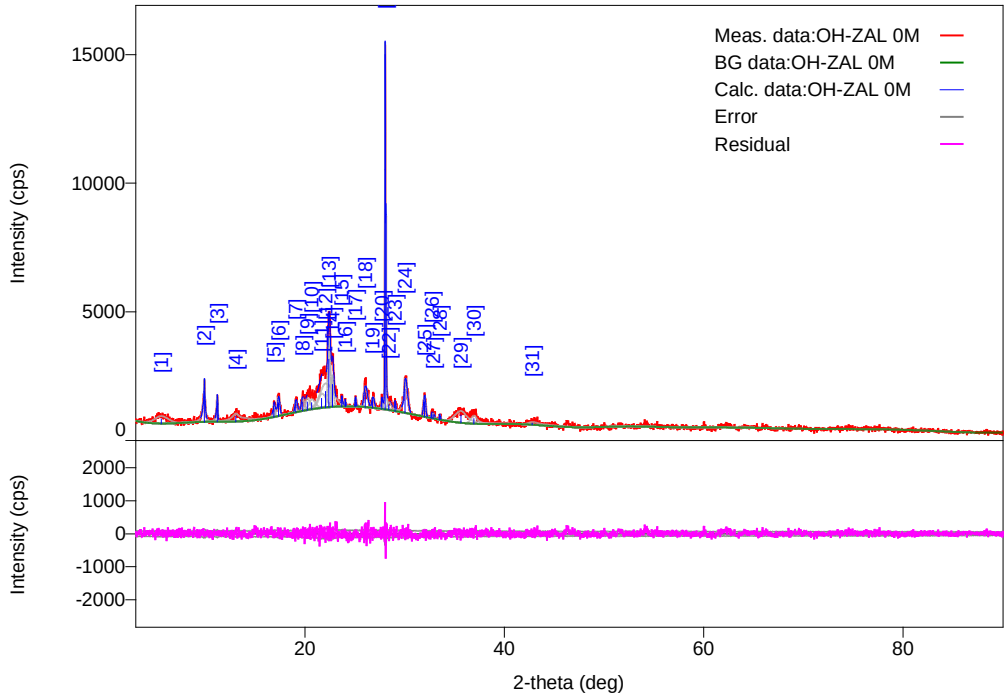
Lampiran 1. Data XRD ZAL dan OH-ZAL

Peak List

General information

Analysis date	2020/08/05 09:37:25		
Sample name		Measurement date	2020/08/05 09:24:50
File name	OH-ZAL 0M.ras	Operator	administrator
Comment			

Measurement profile



Peak list

No.	2-theta(deg)	d(ang.)	Height(cps)	FWHM(deg)	Int. I(cps deg)	Int. W(deg)	Asym. factor
1	5.56(11)	15.9(3)	194(40)	1.57(10)	352(27)	1.8(5)	0.9(3)
2	9.907(4)	8.921(4)	1182(99)	0.129(6)	324(10)	0.27(3)	1.84(17)

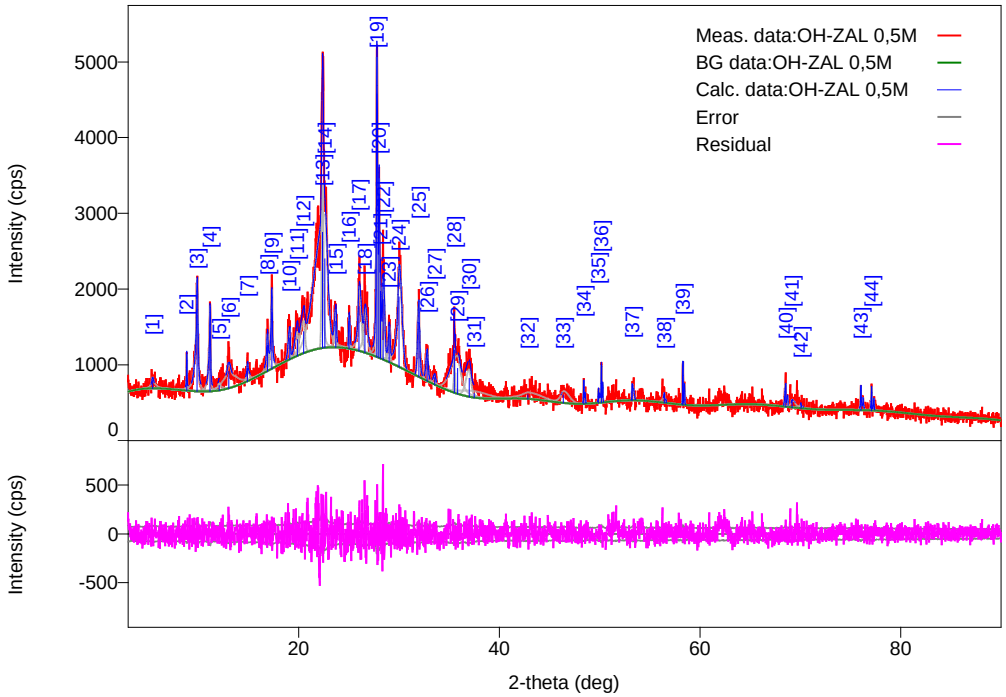
3	11.192(12)	7.899(8)	727(78)	0.110(17)	138(9)	0.19(3)	1.4(7)
4	13.05(3)	6.778(17)	208(42)	0.97(14)	392(23)	1.9(5)	0.8(4)
5	16.885(16)	5.247(5)	337(53)	0.17(4)	84(13)	0.25(8)	0.8(3)
6	17.33(2)	5.114(6)	519(66)	0.26(3)	196(18)	0.38(8)	0.8(3)
7	19.072(18)	4.650(4)	323(52)	0.26(4)	94(11)	0.29(8)	0.75(6)
8	19.74(4)	4.493(8)	345(54)	0.33(8)	125(42)	0.36(18)	0.75(6)
9	20.2(2)	4.39(5)	314(51)	0.5(2)	178(112)	0.6(4)	0.75(6)
10	20.66(11)	4.30(2)	260(47)	0.7(2)	209(99)	0.8(5)	0.75(6)
11	21.67(15)	4.10(3)	369(55)	0.9(4)	376(126)	1.0(5)	0.75(6)
12	22.0(8)	4.03(14)	623(72)	1.55(10)	1065(175)	1.7(5)	0.75(6)
13	22.389(12)	3.968(2)	1871(125)	0.269(16)	554(51)	0.30(5)	0.75(6)
14	22.748(9)	3.9060(16)	872(85)	0.22(3)	214(32)	0.25(6)	0.75(6)
15	23.670(14)	3.756(2)	262(47)	0.11(4)	30(7)	0.12(5)	0.75(6)
16	24.028(8)	3.7006(13)	273(48)	0.040(18)	12(4)	0.04(2)	0.75(6)
17	25.05(4)	3.552(6)	319(52)	0.09(4)	30(12)	0.10(5)	0.9(17)
18	26.04(4)	3.419(5)	560(68)	0.39(3)	234(24)	0.42(9)	0.8(3)
19	26.78(3)	3.326(3)	299(50)	0.27(5)	85(12)	0.28(9)	0.8(3)
20	27.693(17)	3.2187(19)	357(55)	0.08(3)	34(7)	0.10(4)	0.6(4)
21	28.041(2)	3.1795(2)	13804(339)	0.0554(18)	1058(18)	0.077(3)	0.97(18)
22	28.39(8)	3.141(8)	209(42)	0.48(9)	118(19)	0.6(2)	0.6(4)
23	29.012(14)	3.0752(15)	334(53)	0.08(3)	30(7)	0.09(3)	0.6(4)
24	30.027(8)	2.9736(7)	934(88)	0.37(2)	451(19)	0.48(7)	0.5(2)
25	31.98(3)	2.796(2)	596(70)	0.23(2)	147(14)	0.25(5)	1.3(6)
26	32.70(3)	2.736(3)	174(38)	0.08(6)	15(24)	0.08(15)	1.0(11)
27	32.85(9)	2.725(7)	148(35)	0.26(17)	41(19)	0.3(2)	1.0(11)
28	33.500(12)	2.6728(9)	209(42)	0.06(2)	18(5)	0.09(4)	1.1(4)
29	35.64(8)	2.517(6)	310(51)	1.36(15)	553(47)	1.8(4)	1.1(4)
30	36.94(5)	2.432(3)	210(42)	0.71(11)	197(34)	0.9(4)	1.1(4)
31	42.8(2)	2.111(11)	72(24)	1.3(4)	170(28)	2.4(12)	0.5(4)

Peak List

General information

Analysis date	2020/08/05 09:50:14		
Sample name		Measurement date	2020/08/05 09:35:42
File name	OH-ZAL 0,5M.ras	Operator	administrator
Comment			

Measurement profile



Peak list

No.	2-theta(deg)	d(ang.)	Height(cps)	FWHM(deg)	Int. I(cps deg)	Int. W(deg)	Asym. factor
1	5.45(8)	16.2(2)	99(29)	0.27(14)	54(11)	0.5(3)	0.7(11)
2	8.858(13)	9.974(14)	394(57)	0.033(11)	27(6)	0.07(2)	1.4(11)
3	9.891(12)	8.935(10)	1011(92)	0.203(17)	360(12)	0.36(4)	1.2(3)
4	11.183(14)	7.906(10)	788(81)	0.134(18)	182(8)	0.23(3)	1.9(11)
5	12.08(6)	7.32(3)	68(24)	0.3(3)	43(47)	0.6(9)	0.8(3)
6	13.04(5)	6.78(2)	228(44)	0.66(11)	320(57)	1.4(5)	0.8(3)
7	14.91(4)	5.938(15)	171(38)	0.14(8)	49(8)	0.29(11)	0.7(11)
8	16.908(14)	5.239(4)	345(54)	0.16(4)	92(14)	0.27(8)	1.7(5)
9	17.330(11)	5.113(3)	747(79)	0.15(2)	179(15)	0.24(4)	1.7(5)
10	19.125(12)	4.637(3)	287(49)	0.23(3)	73(9)	0.25(7)	3.7(5)
11	19.88(2)	4.464(5)	216(42)	0.38(6)	90(19)	0.42(17)	3.7(5)
12	20.52(2)	4.325(4)	288(49)	0.57(9)	180(24)	0.62(19)	3.7(5)
13	22.39(3)	3.967(5)	1532(113)	0.18(2)	340(32)	0.22(4)	1.2(7)
14	22.613(9)	3.9289(15)	1179(99)	1.50(3)	1944(44)	1.65(18)	3.7(5)
15	23.721(11)	3.7479(18)	346(54)	0.22(4)	83(11)	0.24(7)	3.7(5)
16	25.03(5)	3.555(7)	362(55)	0.12(4)	45(14)	0.12(6)	0.7(11)
17	26.023(13)	3.4214(16)	590(70)	0.36(6)	269(38)	0.46(12)	0.5(3)
18	26.60(3)	3.348(3)	414(59)	0.39(6)	202(32)	0.49(15)	0.5(3)
19	27.802(5)	3.2063(6)	3473(170)	0.088(9)	427(18)	0.123(11)	0.80(19)
20	28.008(5)	3.1832(5)	2081(132)	0.090(13)	261(21)	0.125(18)	0.80(19)
21	28.166(8)	3.1657(8)	888(86)	0.071(16)	87(14)	0.10(3)	0.80(19)

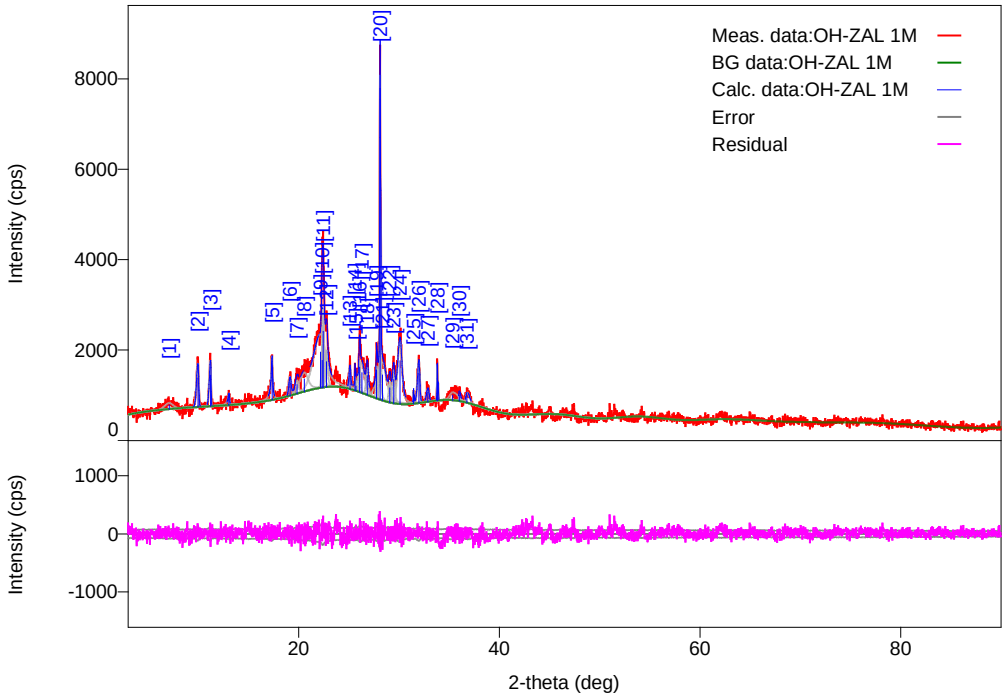
22	28.441(13)	3.1357(14)	795(81)	0.23(2)	251(18)	0.32(6)	0.80(19)
23	29.013(15)	3.0751(15)	379(56)	0.15(4)	78(11)	0.21(6)	0.80(19)
24	30.01(3)	2.976(3)	924(88)	0.47(3)	575(24)	0.62(9)	0.55(18)
25	31.995(14)	2.7950(12)	723(78)	0.202(18)	187(14)	0.26(5)	3.6(17)
26	32.83(2)	2.7259(16)	295(50)	0.24(4)	84(8)	0.28(8)	2.4(9)
27	33.56(4)	2.668(3)	97(28)	0.26(10)	30(8)	0.32(18)	2.4(9)
28	35.520(5)	2.5253(3)	563(68)	0.063(13)	47(7)	0.08(2)	0.8(11)
29	35.86(7)	2.502(5)	338(53)	1.18(8)	484(35)	1.4(3)	2.4(9)
30	37.02(4)	2.426(2)	247(45)	0.58(9)	174(26)	0.7(2)	2.4(9)
31	37.5(6)	2.40(3)	57(22)	3.2(5)	197(43)	3(2)	1.0(7)
32	42.86(14)	2.108(7)	57(22)	2.4(4)	174(31)	3.0(17)	0.5(5)
33	46.37(5)	1.956(2)	107(30)	0.99(13)	129(13)	1.2(5)	0.5(2)
34	48.422(6)	1.8783(2)	311(51)	0.074(13)	28(4)	0.09(3)	0.5(2)
35	49.890(5)	1.82644(18	201(41)	0.047(15)	17(3)	0.09(3)	0.6(3)
36	50.186(3)	1.81637(12	537(67)	0.049(9)	39(4)	0.073(17)	0.7(5)
37	53.26(3)	1.7184(10)	222(43)	0.13(4)	31(9)	0.14(7)	0.5(6)
38	56.46(2)	1.6285(6)	112(31)	0.12(10)	25(9)	0.22(14)	3(8)
39	58.314(9)	1.5810(2)	578(69)	0.068(9)	44(5)	0.076(18)	1.1(6)
40	68.56(2)	1.3676(4)	290(49)	0.13(2)	39(7)	0.13(5)	5(5)
41	69.19(5)	1.3567(9)	93(28)	0.25(17)	49(12)	0.5(3)	0.6(14)
42	70.07(3)	1.3417(6)	59(22)	0.09(16)	10(8)	0.2(2)	5(32)
43	76.044(9)	1.25055(12	330(52)	0.06(2)	38(4)	0.12(3)	0.8(7)
44	77.108(14)	1.23593(19	322(52)	0.07(2)	33(6)	0.10(3)	0.6(7)

Peak List

General information

Analysis date	2020/08/05 09:59:22		
Sample name		Measurement date	2020/08/05 09:46:13
File name	OH-ZAL 1M.ras	Operator	administrator
Comment			

Measurement profile



Peak list

No.	2-theta(deg)	d(ang.)	Height(cps)	FWHM(deg)	Int. I(cps deg)	Int. W(deg)	Asym. factor
1	7.09(6)	12.45(10)	89(27)	0.96(15)	91(20)	1.0(5)	1.1(8)
2	9.968(18)	8.866(16)	648(73)	0.260(16)	179(14)	0.28(5)	2.0(6)
3	11.230(10)	7.873(7)	692(76)	0.197(9)	149(8)	0.22(4)	3.4(10)
4	13.06(6)	6.77(3)	185(39)	0.17(7)	52(11)	0.28(12)	2(4)
5	17.357(11)	5.105(3)	683(75)	0.15(3)	197(10)	0.29(5)	2.4(8)
6	19.149(14)	4.631(3)	287(49)	0.25(3)	87(9)	0.30(8)	1.37(18)
7	19.84(3)	4.471(6)	205(41)	0.36(8)	88(32)	0.4(2)	1.37(18)
8	20.59(5)	4.311(10)	284(49)	0.97(18)	331(70)	1.2(4)	1.37(18)
9	22.18(6)	4.005(11)	797(82)	1.41(8)	1355(72)	1.7(3)	1.37(18)
10	22.35(3)	3.974(5)	604(71)	0.14(9)	99(202)	0.2(4)	1.37(18)
11	22.46(5)	3.956(8)	1246(102)	0.20(8)	304(232)	0.2(2)	1.37(18)
12	22.801(13)	3.897(2)	566(69)	0.24(4)	163(34)	0.29(10)	1.37(18)
13	25.115(11)	3.5429(15)	350(54)	0.18(3)	77(8)	0.22(6)	1.37(18)
14	25.633(12)	3.4725(16)	423(59)	0.037(15)	18(6)	0.042(19)	1(2)
15	25.72(5)	3.461(7)	102(29)	0.24(17)	30(27)	0.3(4)	1.37(18)
16	26.083(9)	3.4136(11)	548(68)	0.12(3)	81(20)	0.15(5)	1.37(18)
17	26.31(4)	3.385(5)	453(61)	0.67(11)	367(61)	0.8(2)	1.37(18)
18	26.849(11)	3.3179(13)	432(60)	0.24(3)	122(18)	0.28(8)	1.37(18)
19	27.779(13)	3.2089(14)	629(72)	0.08(2)	82(11)	0.13(3)	0.9(6)
20	28.120(3)	3.1707(3)	6888(240)	0.063(3)	572(15)	0.083(5)	0.90(19)
21	28.36(3)	3.145(3)	566(69)	1.06(5)	720(25)	1.3(2)	1.37(18)

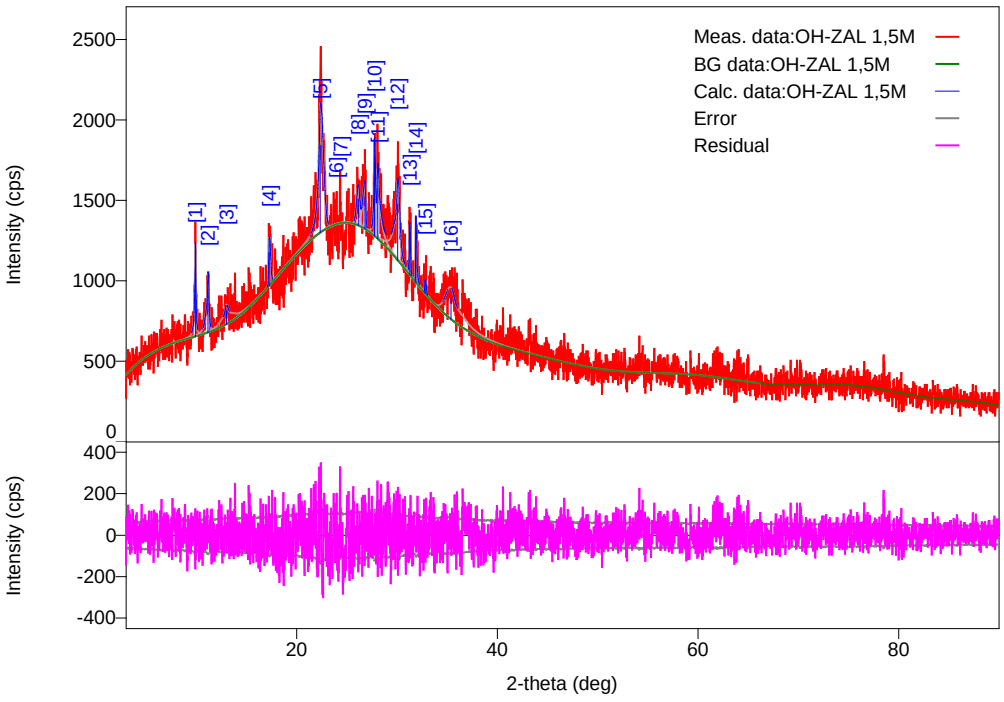
22	29.104(17)	3.0657(17)	330(52)	0.23(4)	91(16)	0.28(9)	1.37(18)
23	29.472(10)	3.0283(10)	524(66)	0.26(3)	162(16)	0.31(7)	1.37(18)
24	30.108(15)	2.9658(15)	962(90)	0.49(2)	570(20)	0.59(8)	1.37(18)
25	31.462(6)	2.8412(5)	289(49)	0.048(11)	15(3)	0.051(19)	2.1(7)
26	31.989(19)	2.7955(16)	657(74)	0.254(14)	177(11)	0.27(5)	2.1(7)
27	32.88(6)	2.722(5)	209(42)	0.27(5)	61(12)	0.29(12)	1.5(13)
28	33.828(5)	2.6477(4)	833(83)	0.056(11)	49(12)	0.06(2)	1.3(13)
29	35.35(15)	2.537(10)	118(31)	1.0(2)	122(21)	1.0(5)	0.6(4)
30	36.02(3)	2.491(2)	135(34)	0.12(8)	17(9)	0.13(10)	0.6(4)
31	36.79(6)	2.441(4)	163(37)	0.40(8)	69(14)	0.43(18)	0.6(4)

Peak List

General information

Analysis date	2020/08/05 10:15:53		
Sample name		Measurement date	2020/08/05 09:56:41
File name	OH-ZAL 1,5M.ras	Operator	administrator
Comment			

Measurement profile



Peak list

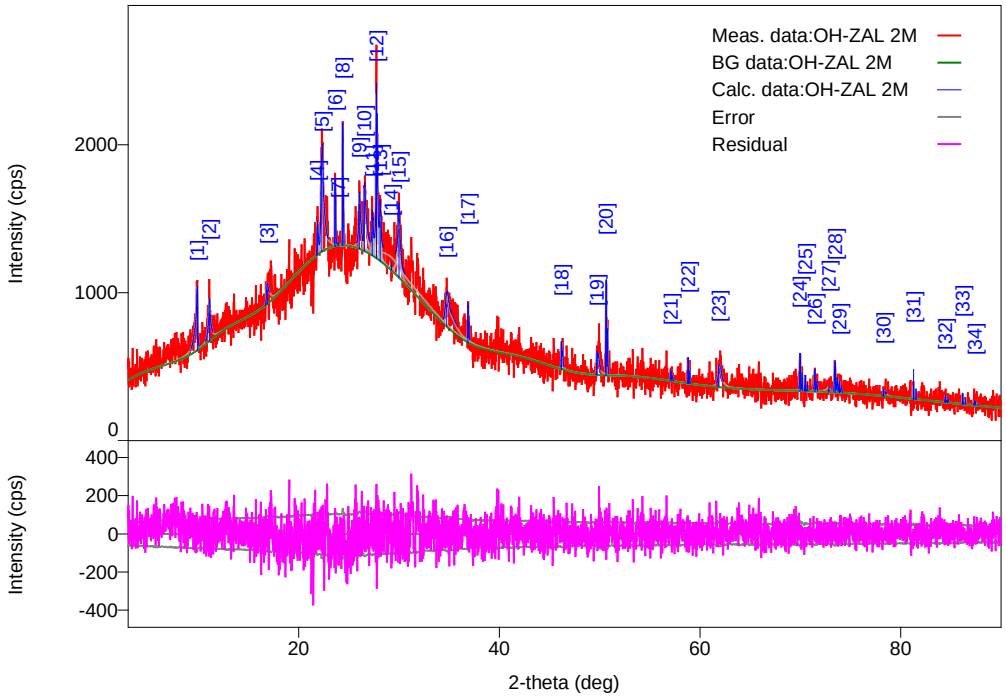
No.	2-theta(deg)	d(ang.)	Height(cps)	FWHM(deg)	Int. I(cps deg)	Int. W(deg)	Asym. factor
1	9.923(9)	8.906(8)	422(59)	0.087(14)	78(8)	0.18(4)	1.7(5)
2	11.18(3)	7.91(2)	251(46)	0.21(5)	92(13)	0.36(12)	1.1(8)
3	13.01(13)	6.80(7)	83(26)	0.6(3)	106(20)	1.3(7)	0.8(10)
4	17.281(15)	5.127(4)	206(41)	0.21(4)	46(12)	0.22(10)	0.5(5)
5	22.363(12)	3.972(2)	543(67)	0.52(3)	368(15)	0.68(11)	0.50(9)
6	24(3343)	4(4)	0.00(9)	0(11078)	0(14)	0(14036)	3(302420)
7	24(531)	4(4)	0.00(11)	1(1158)	0(15)	1(9815)	2(153755)
8	26.15(9)	3.405(11)	164(37)	0.36(8)	63(19)	0.4(2)	1.5(16)
9	26.82(2)	3.322(3)	197(40)	0.35(9)	73(14)	0.37(15)	4(10)
10	27.769(11)	3.2101(12)	500(65)	0.12(4)	95(12)	0.19(5)	0.7(7)
11	28.086(18)	3.1745(19)	312(51)	0.29(7)	149(19)	0.48(14)	0.6(10)
12	30.09(5)	2.967(5)	347(54)	0.43(7)	259(26)	0.75(19)	1.1(7)
13	31.286(14)	2.8567(13)	265(47)	0.11(4)	32(11)	0.12(6)	1.3(18)
14	31.891(7)	2.8039(6)	417(59)	0.07(2)	42(8)	0.10(3)	0.5(6)
15	32.82(4)	2.727(3)	81(26)	0.11(11)	10(10)	0.12(17)	0.5(18)
16	35.39(11)	2.535(7)	134(33)	1.28(16)	269(32)	2.0(7)	1.1(3)

Peak List

General information

Analysis date	2020/08/05 10:19:33		
Sample name		Measurement date	2020/08/05 10:07:20
File name	OH-ZAL 2M.ras	Operator	administrator
Comment			

Measurement profile



Peak list

No.	2-theta(deg)	d(ang.)	Height(cps)	FWHM(deg)	Int. I(cps deg)	Int. W(deg)	Asym. factor
1	9.909(8)	8.919(7)	295(50)	0.18(3)	100(9)	0.34(9)	5(8)
2	11.103(15)	7.962(11)	196(40)	0.17(7)	69(9)	0.35(12)	0.7(8)
3	16.88(10)	5.25(3)	99(29)	0.23(14)	39(13)	0.4(3)	0.6(5)
4	21.87(2)	4.060(4)	186(39)	0.10(6)	28(10)	0.15(9)	0.9(3)
5	22.34(2)	3.977(4)	498(64)	0.25(3)	195(16)	0.39(8)	0.9(3)
6	23.64(2)	3.761(3)	439(60)	0.056(18)	26(8)	0.06(3)	0.5(9)
7	23.9(16)	3.7(2)	15(11)	0.0(18)	0(4)	0.0(3)	2(157041)
8	24.404(8)	3.6444(11)	820(83)	0.055(7)	48(7)	0.058(15)	1.1(7)
9	26.052(14)	3.4175(18)	302(50)	0.14(4)	84(11)	0.28(8)	0.8(10)
10	26.558(9)	3.3535(12)	338(53)	0.16(3)	98(9)	0.29(7)	0.5(4)
11	27.34(3)	3.260(3)	218(43)	0.06(5)	28(8)	0.13(6)	0.7(14)
12	27.755(8)	3.2117(9)	1015(92)	0.072(15)	146(10)	0.14(2)	0.7(4)
13	28.126(13)	3.1700(14)	265(47)	0.09(4)	40(8)	0.15(6)	0.5(10)
14	29.2(5)	3.05(5)	58(22)	3.1(7)	292(47)	5(3)	1.0(4)
15	30.00(3)	2.976(3)	325(52)	0.17(8)	108(12)	0.33(9)	1.7(17)
16	34.77(7)	2.578(5)	157(36)	0.52(11)	145(17)	0.9(3)	0.5(4)
17	36.889(4)	2.4347(3)	268(47)	0.035(16)	11(4)	0.04(2)	0.5(14)
18	46.205(11)	1.9632(4)	185(39)	0.09(3)	24(6)	0.13(6)	0.5(11)
19	49.759(17)	1.8309(6)	156(36)	0.14(4)	38(7)	0.24(10)	0.5(5)
20	50.656(3)	1.80059(10	642(73)	0.058(10)	44(6)	0.069(17)	0.6(5)
21	57.12(2)	1.6112(6)	70(24)	0.09(6)	7(5)	0.11(10)	1(4)

22	58.84(3)	1.5681(7)	175(38)	0.06(2)	11(4)	0.06(4)	2(4)
23	61.90(2)	1.4978(5)	133(33)	0.27(11)	60(8)	0.45(17)	0.5(7)
24	69.984(6)	1.34324(10	254(46)	0.063(17)	21(4)	0.08(3)	1.0(13)
25	70.505(9)	1.33458(15	104(29)	0.05(3)	6(3)	0.06(5)	2(4)
26	71.461(18)	1.3191(3)	141(34)	0.07(2)	14(4)	0.10(5)	1.0(9)
27	72.86(6)	1.2972(10)	31(16)	0.24(18)	15(7)	0.5(5)	4(19)
28	73.475(19)	1.2878(3)	207(42)	0.107(19)	24(4)	0.11(4)	2.0(16)
29	73.91(2)	1.2813(4)	77(25)	0.11(4)	9(3)	0.11(8)	2.0(16)
30	78.30(3)	1.2201(4)	46(19)	0.11(10)	9(4)	0.19(17)	0.5(16)
31	81.290(2)	1.18258(3)	203(41)	0.017(11)	4(3)	0.02(2)	1(4)
32	84.46(2)	1.1461(2)	48(20)	0.08(7)	5(4)	0.10(12)	1(2)
33	86.188(10)	1.12749(10	76(25)	0.05(3)	4(3)	0.05(6)	0.5(18)
34	87.40(4)	1.1149(4)	33(17)	0.14(12)	5(5)	0.2(2)	1(5)

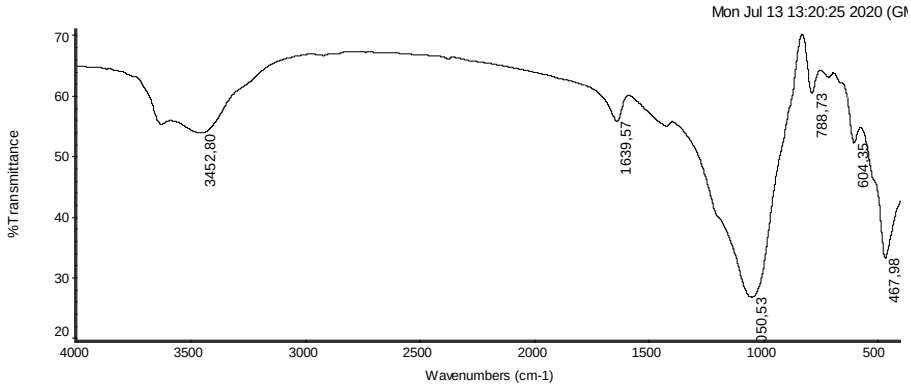
Lampiran 2. Data FTIR ZAL dan OH-ZAL

Collection time: Fri Jul 10 11:27:18 2020 (GMT+07:(
Mon Jul 13 13:18:44 2020 (GMT+07:00)
FIND PEAKS:
Spectrum: *01130620-1 OH-ZAL
Region: 4000,00 400,00
Absolute threshold: 61,879
Sensitivity: 50
Peak list:

Position:	1054,59	Intensity:	17,933
Position:	468,17	Intensity:	22,815
Position:	3444,54	Intensity:	39,886
Position:	1642,24	Intensity:	47,259
Position:	789,97	Intensity:	50,025

Collection time: Fri Jul 10 11:33:42 2020 (GMT+07:(
Mon Jul 13 13:19:34 2020 (GMT+07:00)
FIND PEAKS:
Spectrum: *01130620-2 OH-ZAL 0,5M
Region: 4000,00 400,00
Absolute threshold: 70,005
Sensitivity: 50
Peak list:

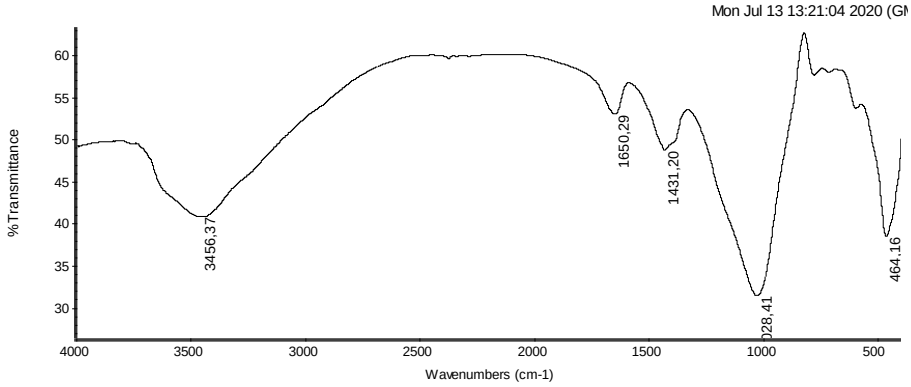
Position:	1053,57	Intensity:	26,647
Position:	467,22	Intensity:	32,498
Position:	3450,00	Intensity:	50,241
Position:	1637,47	Intensity:	52,929
Position:	789,80	Intensity:	57,708



Collection time: Fri Jul 10 11:40:31 2020 (GMT+07:(

Mon Jul 13 13:20:22 2020 (GMT+07:00)
FIND PEAKS:
Spectrum: *01130620-3 OH-ZAL 1M
Region: 4000,00 400,00
Absolute threshold: 71,403
Sensitivity: 50
Peak list:

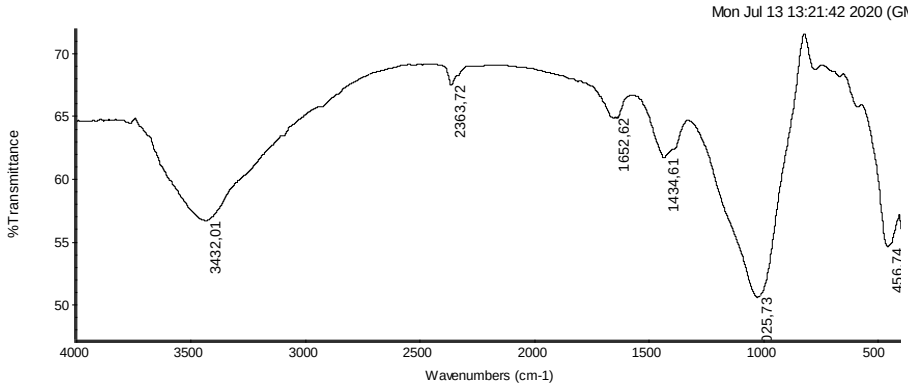
Position:	1050,53	Intensity:	26,513
Position:	467,98	Intensity:	33,025
Position:	604,35	Intensity:	52,044
Position:	3452,80	Intensity:	53,715
Position:	1639,57	Intensity:	55,658
Position:	788,73	Intensity:	60,289



Collection time: Fri Jul 10 11:47:21 2020 (GMT+07:(

Mon Jul 13 13:21:01 2020 (GMT+07:00)
FIND PEAKS:
Spectrum: *01130620-4 OH-ZAL 1,5M
Region: 4000,00 400,00
Absolute threshold: 63,535
Sensitivity: 50
Peak list:

Position:	1028,41	Intensity:	31,255
Position:	464,16	Intensity:	38,357
Position:	3456,37	Intensity:	40,648
Position:	1431,20	Intensity:	48,599
Position:	1650,29	Intensity:	52,902



Collection time: Fri Jul 10 11:55:05 2020 (GMT+07:(

Mon Jul 13 13:21:39 2020 (GMT+07:00)
FIND PEAKS:
Spectrum: *01130620-5 OH-ZAL 2M
Region: 4000,00 400,00
Absolute threshold: 72,145
Sensitivity: 50
Peak list:

Position:	1025,73	Intensity:	50,478
Position:	456,74	Intensity:	54,501
Position:	3432,01	Intensity:	56,580
Position:	1434,61	Intensity:	61,589
Position:	1652,62	Intensity:	64,761
Position:	2363,72	Intensity:	67,396

Lampiran 3. Data GC-MS Biodiesel

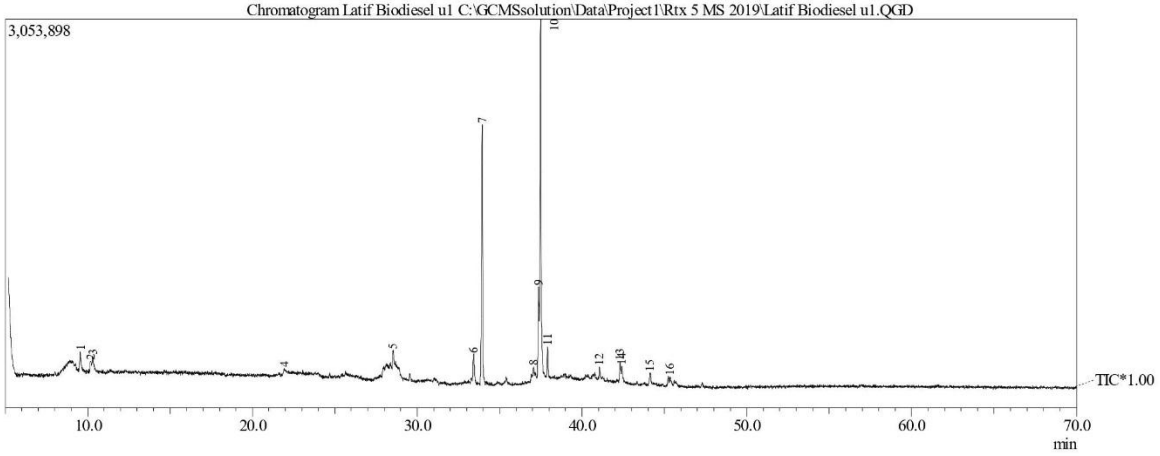
C:¥GCMSsolution¥Data¥Project1¥Rtx 5 MS 2019¥Latif Biodiesel u1.QGD

Lab.Kimia Organik FMIPA - UGM

Sample Information

Analyzed by	: Admin
Sample Name	: Latif Biodiesel u1
Sample ID	:
Data File	: C:\GCMSsolution\Data\Project1\Rtx 5 MS 2019\Latif Biodiesel u1.QGD
Method File	: C:\GCMSsolution\Data\Project1\Rtx 5 MS 2019\Biodisel baru.qgm
Tuning File	: C:\GCMSsolution\System\Tune1\juni 30 2020.qgt

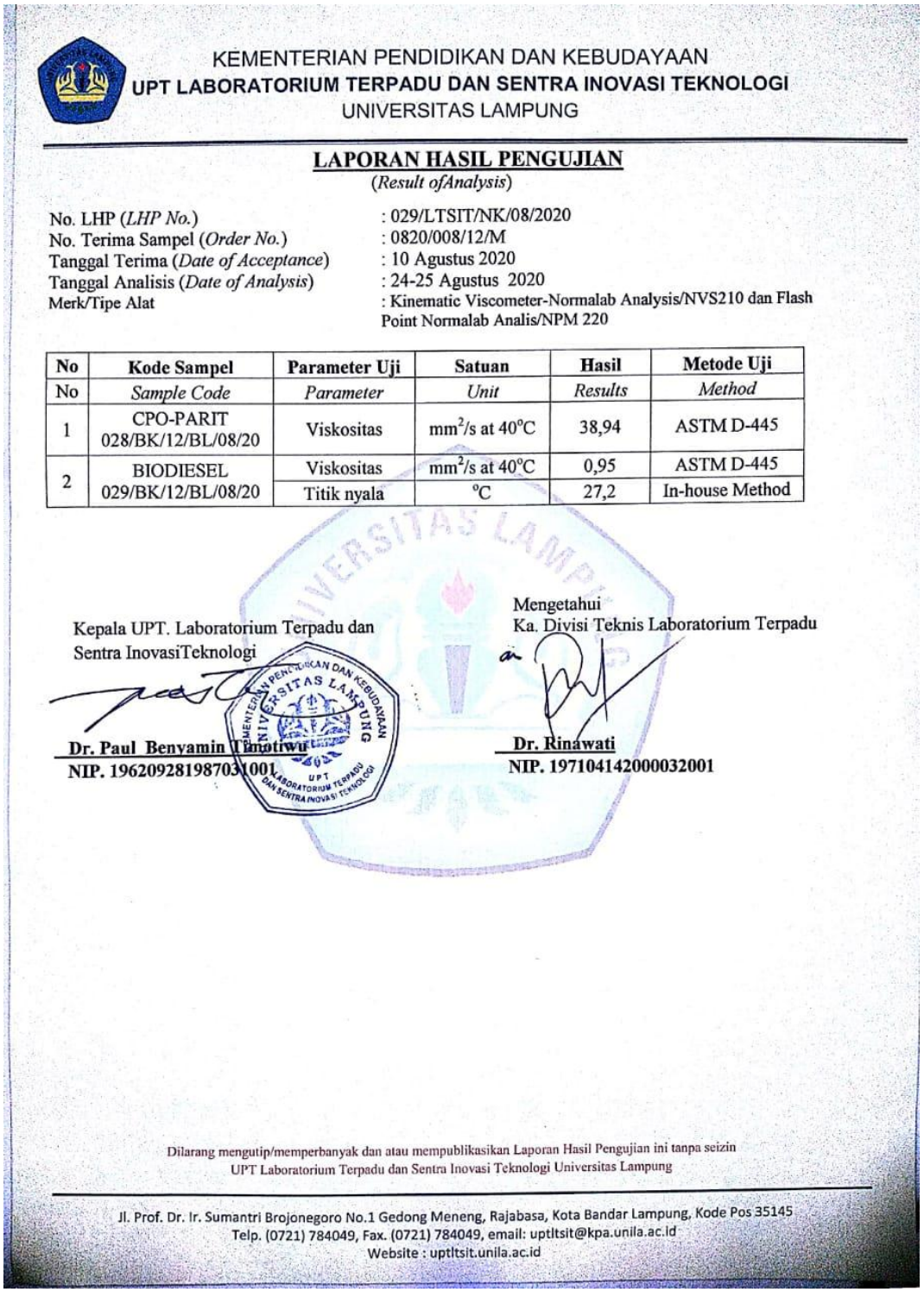
Chromatogram Latif Biodiesel u1 C:\GCMSsolution\Data\Project1\Rtx 5 MS 2019\Latif Biodiesel u1.QGD



Peak Report TIC

Peak#	R.Time	I.Time	F.Time	Area	Area%	Height
1	9.559	9.458	9.667	806332	2.18	149470
2	10.169	10.092	10.233	521348	1.41	95501
3	10.302	10.233	10.492	974185	2.63	125546
4	21.942	21.808	22.058	509627	1.37	55488
5	28.533	28.450	28.625	700038	1.89	136195
6	33.414	33.342	33.625	1503493	4.06	233979
7	33.944	33.783	34.150	9364147	25.26	2042634
8	37.056	36.992	37.133	707401	1.91	122164
9	37.363	37.250	37.408	3417319	9.22	742470
10	37.483	37.408	38.100	14304165	38.59	2840796
11	37.910	37.750	37.975	977560	2.64	243937
12	41.061	40.983	41.175	507636	1.37	105560
13	42.309	42.208	42.367	804060	2.17	166199
14	42.410	42.367	42.533	711938	1.92	135577
15	44.132	44.008	44.233	664100	1.79	99002
16	45.333	45.283	45.500	594746	1.60	80753
				37068095	100.00	7375271

Lampiran 4. Hasil Uji Viskositas dan Titik Nyala



KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
UPT LABORATORIUM TERPADU DAN SENTRA INOVASI TEKNOLOGI
UNIVERSITAS LAMPUNG

LAPORAN HASIL PENGUJIAN
(*Result ofAnalysis*)

No. LHP (*LHP No.*) : 029/LTSIT/NK/08/2020
No. Terima Sampel (*Order No.*) : 0820/008/12/M
Tanggal Terima (*Date of Acceptance*) : 10 Agustus 2020
Tanggal Analisis (*Date of Analysis*) : 24-25 Agustus 2020
Merk/Tipe Alat : Kinematic Viscometer-Normalab Analysis/NVS210 dan Flash Point Normalab Analis/NPM 220

No	Kode Sampel	Parameter Uji	Satuan	Hasil	Metode Uji
No	*Sample Code*	*Parameter*	*Unit*	*Results*	*Method*
1	CPO-PARIT 028/BK/12/BL/08/20	Viskositas	mm^2/s at 40°C	38,94	ASTM D-445
2	BIODIESEL 029/BK/12/BL/08/20	Viskositas	mm^2/s at 40°C	0,95	ASTM D-445
		Titik nyala	°C	27,2	In-house Method

Kepala UPT. Laboratorium Terpadu dan
Sentra InovasiTeknologi

Dr. Paul Benyamin Timotiwu
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Mengetahui
Ka. Divisi Teknis Laboratorium Terpadu

Dr. Rinawati
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Dilarang mengutip/memperbanyak dan atau mempublikasikan Laporan Hasil Pengujian ini tanpa seizin
UPT Laboratorium Terpadu dan Sentra Inovasi Teknologi Universitas Lampung

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Telp. (0721) 784049, Fax. (0721) 784049, email: uptltsit@kpa.unila.ac.id
Website : uptltsit.unila.ac.id

Lampiran 5. Foto Kegiatan