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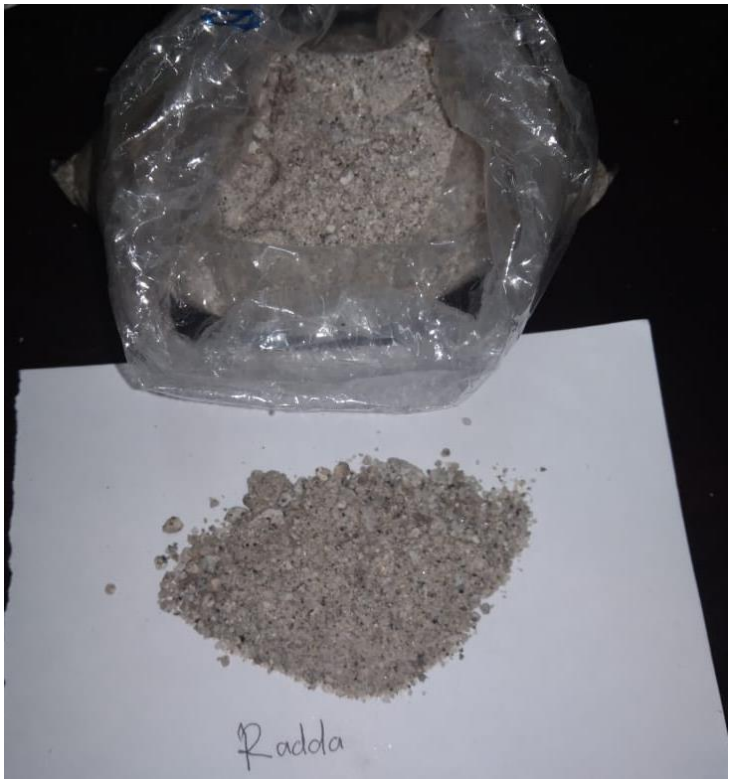
Lampiran 1 Foto sampel

1. Sampel I (Desa Radda)



Koordinat : 199613.82 m E – 9716002.10 m S

Warna segar : Coklat keabu-abuan

Warna lapuk : Abu kelam

Tekstur : Kasar

Kandungan Mineral : *Quartz, Kalium Oksida, Hematit, Corundum, Kalsium Oksida, Rutile*

Senyawa kimia : Sio_2, K_2O, Fe_2O_3, Al_2O_3, CaO, TiO_2

2. Sampel II (Desa Meli)

Koordinat : 201789.09 m E – 9717577.81 m S

Warna segar : Hitam kecoklatan

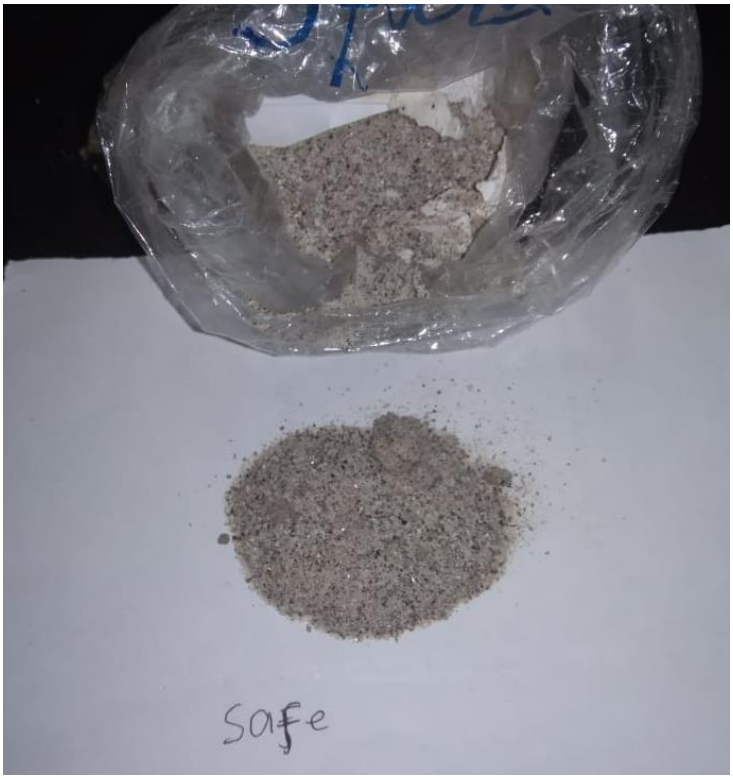
Warna lapuk : Hitam kelam

Tekstur : Halus

Kandungan Mineral : *Quartz, Kalium Oksida, Hematit, Kalsium Oksida, Rutile*

Senyawa kimia : Sio_2, K_2O, Fe_2O_3, CaO, TiO_2

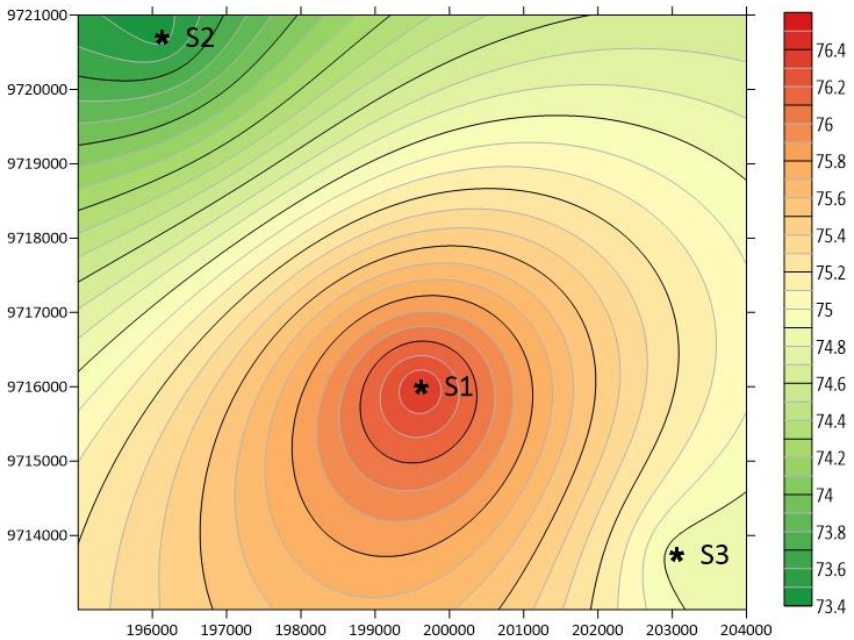
3. Sampel III (Desa Safe)



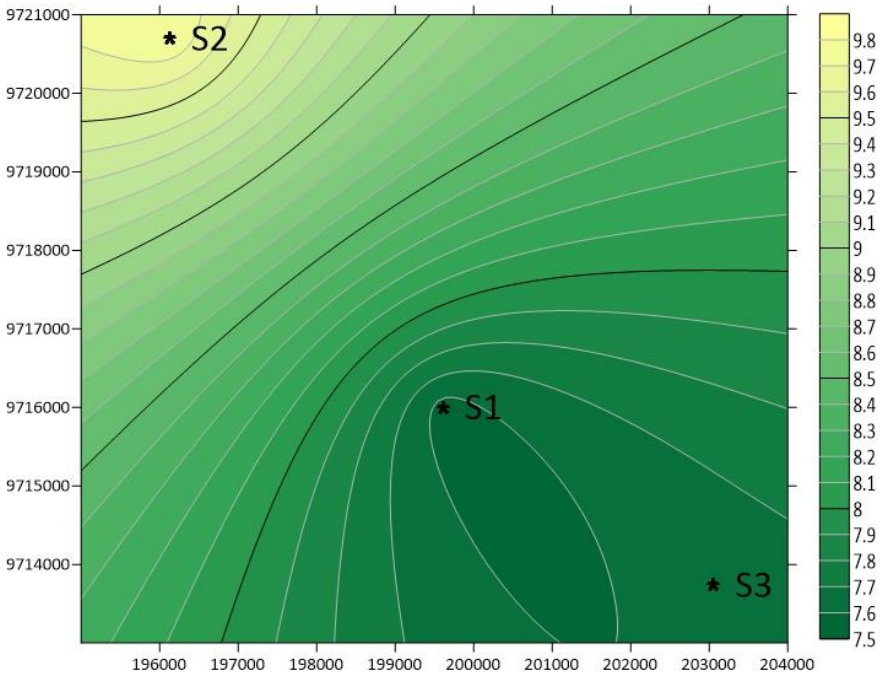
Koordinat	: 203059.19 m E - 9713740.33 m S
Warna segar	: Coklat keabu-abuan
Warna lapuk	: Abu kelam
Tekstur	: Agak Halus
Kandungan Mineral	: *Quartz, Kalium Oksida, Hematit, Corundum, Kalsium Oksida, Rutile*
Senyawa kimia	: Sio_2, K_2O, Fe_2O_3, Al_2O_3, CaO, TiO_2

Lampiran 2 Uji Coba Warna

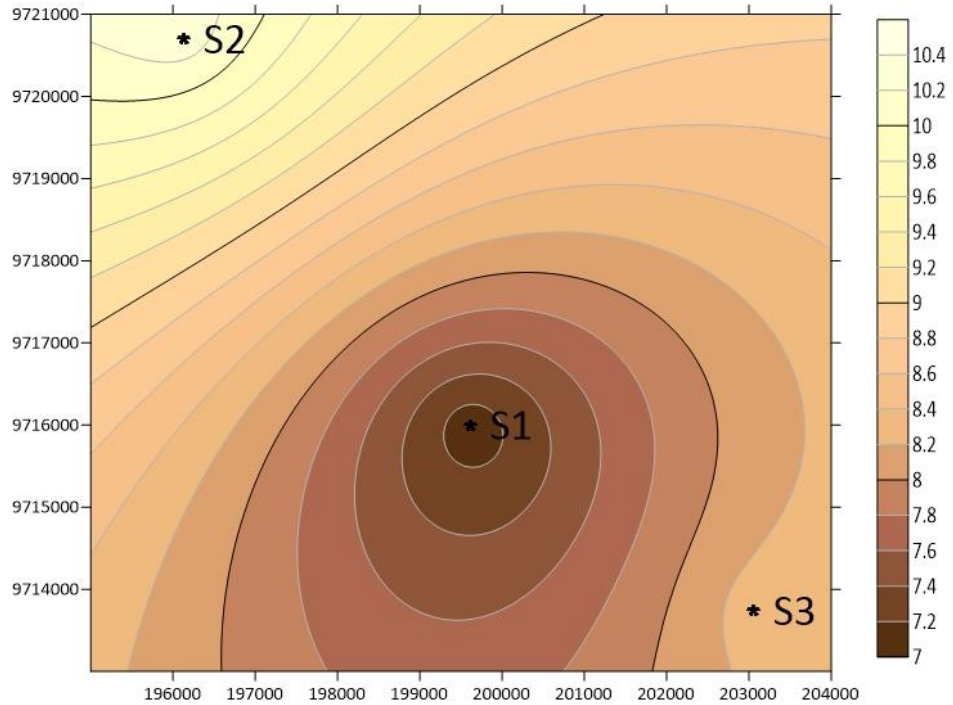
1. SiO_2



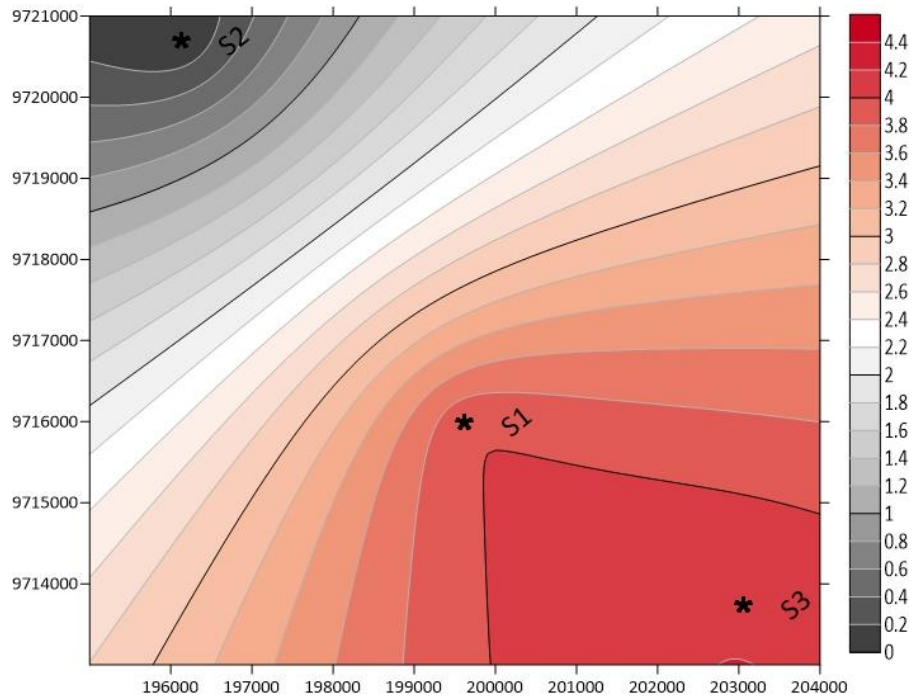
2. K_2O



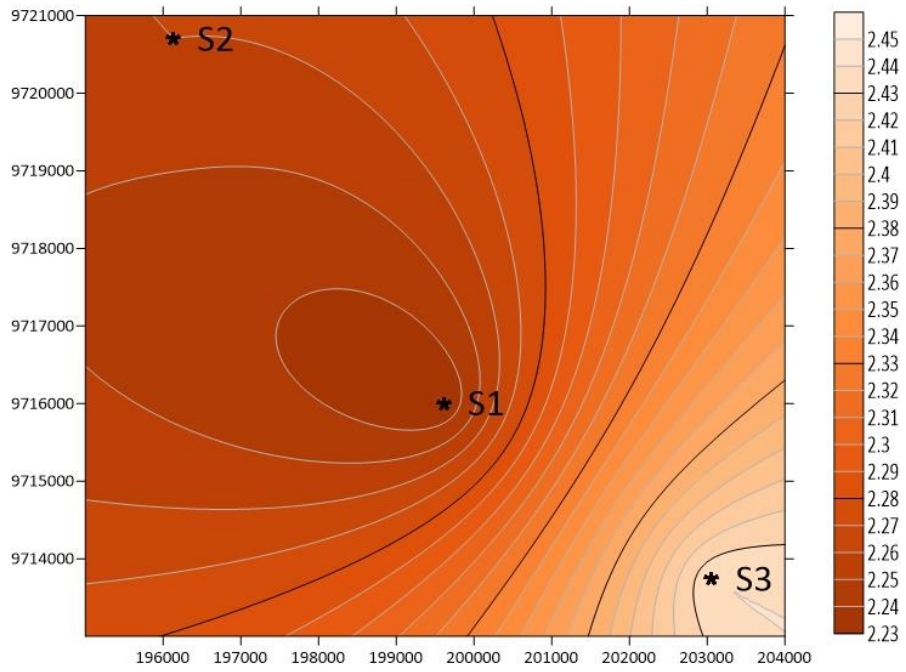
3. Fe_2O_3



4. Al_2O_3



5. CaO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2.39
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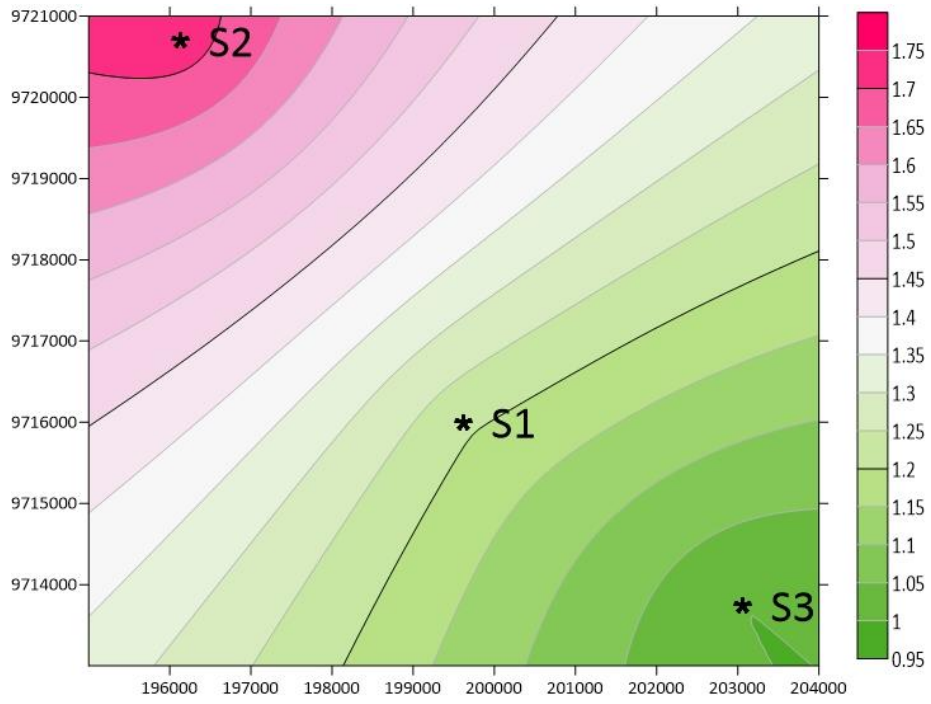
6. TiO_2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* S2
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1.45
1.4
1.35
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1.25
1.2
1.15
1.1
1.05
1
0.95

Lampiran 3 Hasil Analisis Metode XRF*(X-Ray Fluorescence*) Desa Radda

```
SAMPLE ANALYSIS REPORT                    THERMO FISHER SCIENTIFIC
ARL QUANT'X EDXRF ANALYZER                UNIQUANT(TM) STANDARDLESS METHOD
_____________________________________________________________________
C:\UQed\USER\Quant'X\Job\JOB.861   2021-10-28
Radda oks

Quant'X Rh end window 50kV
C:\UQed\USER\Quant'X\Appl\AnySampleAir.kap 2008-06-13
Calculated as : Oxides     Matrix (Shape & ImpFc) : 1|Teflon
X-ray path   =   Air     Film type    = No supporting film
Case number  = 0  All known
Eff.Diam.    = 13.0 mm     Eff.Area     = 132.7 mm2
KnownConc    = 0   %
Rest         = 0   %              Viewed Mass  = 1000.000 mg
Dil/Sample   = 0                  Sample Height = 7.54 mm

     Compound m/m%  StdErr | El   m/m%   StdErr
     ..... ..... ..... | ..   ..... .....
     SiO2   76.42   1.37  | Si   35.73   0.64
     K2O     7.56   0.17  | K     6.28   0.14
     Fe2O3   7.06   0.15  | Fe    4.94   0.10
     Al2O3   3.97   1.68  | Al    2.10   0.89
     CaO     2.29   0.25  | Ca    1.64   0.18

     TiO2    1.21   0.07  | Ti    0.726  0.040
     P2O5    0.71   0.19  | Px    0.308  0.085
     Rb2O    0.149  0.008 | Rb    0.136  0.008
     BaO     0.139  0.038 | Ba    0.125  0.034
     MnO     0.127  0.029 | Mn    0.099  0.022

     SrO     0.113  0.008 | Sr    0.0955 0.0065
     ZrO2    0.087  0.018 | Zr    0.065  0.013
     Nb2O5   0.0592 0.0041 | Nb    0.0414 0.0029
     MoO3    0.0362 0.0056 | Mo    0.0241 0.0037
     SnO2    0.0211 0.0024 | Sn    0.0166 0.0019

     In2O3   0.0169 0.0013 | In    0.0140 0.0010
     RuO4    0.0128 0.0033 | Ru    0.0097 0.0025
     Sb2O3   0.0096 0.0036 | Sb    0.0080 0.0030
     Rh2O3   0.0080 0.0031 | Rh    0.0065 0.0025

KnownConc= 0          REST= 0          D/S= 0
Sum Conc's before normalisation to 100% :  27.9 %
Total % stripped Oxygen: 47.646
```

Metode XRF*(X-Ray Fluorescence*) Desa Meli

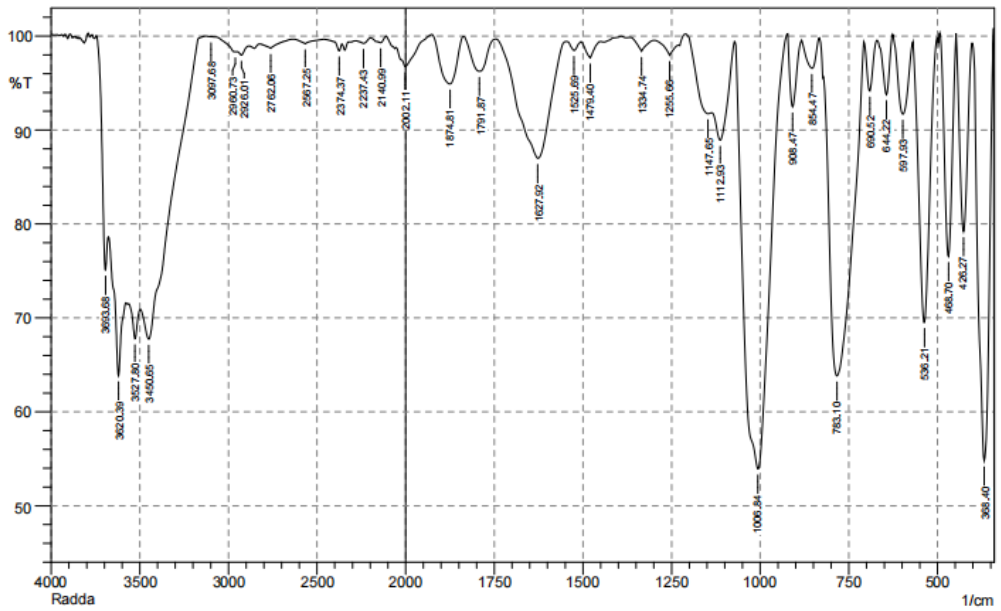
```
SAMPLE ANALYSIS REPORT                    THERMO FISHER SCIENTIFIC
ARL QUANT'X EDXRF ANALYZER                UNIQUANT(TM) STANDARDLESS METHOD
_____________________________________________________________________________
C:\UQed\USER\Quant'X\Job\JOB.863   2021-10-28
Meli Oks

Quant'X Rh end window 50kV
C:\UQed\USER\Quant'X\Appl\AnySampleAir.kap 2008-06-13
Calculated as : Oxides     Matrix (Shape & ImpFc) : 1|Teflon
X-ray path  =   Air     Film type   = No supporting film
Case number  = 0  All known
Eff.Diam.   = 13.0 mm     Eff.Area    = 132.7 mm2
KnownConc   = 0   %
Rest      = 0   %              Viewed Mass  = 1000.000 mg
Dil/Sample   = 0                 Sample Height = 7.54 mm

     Compound m/m%  StdErr  | El    m/m%    StdErr          |
     ..... ........ ....... | ..    ........ .......
     SiO2   73.46   0.36  | Si    34.34   0.17
     Fe2O3  10.33   0.15  | Fe     7.23   0.11
     K2O     9.79   0.15  | K      8.13   0.12
     CaO     2.26   0.19  | Ca     1.61   0.13
     TiO2    1.73   0.10  | Ti     1.04   0.06

     P2O5    1.19   0.24  | Px     0.52   0.10
     BaO     0.266  0.073 | Ba     0.238  0.066
     Rb2O    0.236  0.012 | Rb     0.216  0.011
     MnO     0.193  0.039 | Mn     0.150  0.031
     ZrO2    0.162  0.027 | Zr     0.120  0.020

     SrO     0.147  0.012 | Sr     0.124  0.010
     Nb2O5   0.088  0.012 | Nb     0.0615 0.0086
     MoO3    0.051  0.015 | Mo     0.0339 0.0098
     SnO2    0.0408 0.0046 | Sn    0.0321 0.0036
     In2O3   0.0346 0.0024 | In    0.0286 0.0020

     Sb2O3   0.0195 0.0068 | Sb    0.0163 0.0057

KnownConc= 0            REST= 0            D/S= 0
Sum Conc's before normalisation to 100% :  21.5 %
Total % stripped Oxygen: 46.111
```

Metode XRF*(X-Ray Fluorescence*) Desa Safe

```
SAMPLE ANALYSIS REPORT                    THERMO FISHER SCIENTIFIC
ARL QUANT'X EDXRF ANALYZER                UNIQUANT(TM) STANDARDLESS METHOD
_____________________________________________________________________
C:\UQed\USER\Quant'X\Job\JOB.862   2021-10-28
SAFE oks

Quant'X Rh end window 50kV
C:\UQed\USER\Quant'X\Appl\AnySampleAir.kap 2008-06-13
Calculated as : Oxides      Matrix (Shape & ImpFc) : 1|Teflon
X-ray path   =   Air      Film type    = No supporting film
Case number  = 0  All known
Eff.Diam.    = 13.0 mm      Eff.Area     = 132.7 mm2
KnownConc    = 0   %
Rest         = 0   %              Viewed Mass  = 1000.000 mg
Dil/Sample   = 0                     Sample Height = 7.54 mm

     Compound m/m%  StdErr  | El    m/m%    StdErr
     ...... ........ ....... | ..    ........ .......
     SiO2   74.84   1.42   | Si    34.99   0.66
     Fe2O3   8.31   0.18   | Fe     5.81   0.13
     K2O     7.64   0.18   | K      6.34   0.15
     Al2O3   4.18   1.76   | Al     2.21   0.93
     CaO     2.44   0.25   | Ca     1.74   0.18

     TiO2    1.00   0.10   | Ti     0.600  0.063
     P2O5    0.62   0.20   | Px     0.272  0.088
     Rb2O    0.172  0.011  | Rb     0.157  0.010
     ZrO2    0.167  0.021  | Zr     0.123  0.015
     BaO     0.158  0.049  | Ba     0.142  0.044

     MnO     0.134  0.034  | Mn     0.104  0.026
     SrO     0.128  0.009  | Sr     0.108  0.008
     Nb2O5   0.0721 0.0051 | Nb     0.0504 0.0036
     MoO3    0.0515 0.0082 | Mo     0.0343 0.0055
     SnO2    0.0269 0.0031 | Sn     0.0212 0.0024

     In2O3   0.0195 0.0016 | In     0.0161 0.0013
     RuO4    0.0183 0.0042 | Ru     0.0139 0.0032
     Sb2O3   0.0135 0.0046 | Sb     0.0113 0.0038
     Rh2O3   0.0099 0.0038 | Rh     0.0080 0.0031

KnownConc= 0              REST= 0              D/S= 0
Sum Conc's before normalisation to 100% :  26.9 %
Total % stripped Oxygen: 47.243

Ln 1, Col 1
```

Lampiran 4 Hasil Analisis Metode FTIR Desa Radda

SHIMADZU



No.	Peak	Intensity	Corr. Intensity	Base (H)	Base (L)	Area	Corr. Area
1	368.4	54.805	44.321	401.19	343.33	8.1547	7.9366
2	426.27	79.205	20.5654	447.49	403.12	2.4011	2.348
3	468.7	76.5647	22.8579	493.78	449.41	2.6586	2.5602
4	536.21	69.5321	30.0822	569	501.49	5.044	4.9341
5	597.93	91.6918	7.9295	624.94	570.93	1.1927	1.0997
6	644.22	93.7678	6.1602	669.3	626.87	0.5637	0.5397
7	690.52	94.1727	5.294	707.88	669.3	0.5107	0.4224
8	783.1	63.836	32.7223	819.75	707.88	13.1148	11.7847
9	854.47	96.5732	3.1401	883.4	833.25	0.4793	0.4125
10	908.47	92.4678	7.5413	921.97	883.4	0.6898	0.6742
11	1006.84	53.9195	45.7927	1070.49	923.9	19.9875	19.8453
12	1112.93	88.9132	5.6926	1136.07	1072.42	2.1803	0.9593
13	1147.65	91.7367	1.2436	1209.37	1138	1.6136	0.3257
14	1255.66	97.9535	1.275	1298.09	1230.58	0.3372	0.1293
15	1334.74	98.3893	1.3197	1369.46	1298.09	0.239	0.1473
16	1479.4	97.6802	1.729	1504.48	1450.47	0.3221	0.1833
17	1525.69	98.4718	0.9439	1548.84	1504.48	0.1897	0.0769
18	1627.92	86.9969	12.5418	1745.58	1548.84	6.0165	5.643
19	1791.87	96.2536	3.5814	1836.23	1745.58	0.8036	0.7375
20	1874.81	94.903	5.1431	1924.96	1838.16	1.1213	1.1444
21	2002.11	96.7635	2.584	2054.19	1924.96	0.965	0.6724
22	2140.99	99.2999	0.3984	2167.99	2108.2	0.1232	0.0519
23	2237.43	99.2298	0.4294	2283.72	2196.92	0.209	0.0765
24	2374.37	98.4301	0.81	2463.1	2358.94	0.3237	0.0576
25	2567.25	99.1938	0.4722	2630.91	2463.1	0.376	0.1315
26	2762.06	98.7123	0.6132	2823.79	2630.91	0.6641	0.1737
27	2926.01	97.9836	0.599	2953.02	2883.58	0.4795	0.0695
28	2960.73	98.3433	0.1037	3072.6	2953.02	0.4405	-0.0172
29	3097.68	99.9362	0.0164	3128.54	3093.82	0.0046	0.0013
30	3450.65	67.7473	6.8464	3496.94	3130.47	29.8801	3.9623
31	3527.8	67.7906	3.3858	3562.52	3498.87	9.9486	0.5564
32	3620.39	63.8491	10.6911	3676.32	3579.88	14.5697	2.4929
33	3693.68	75.1159	8.5589	3743.83	3678.25	4.342	1.0225

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Metode FTIR *(Fourier Transfrom InfraRed)* Desa Meli

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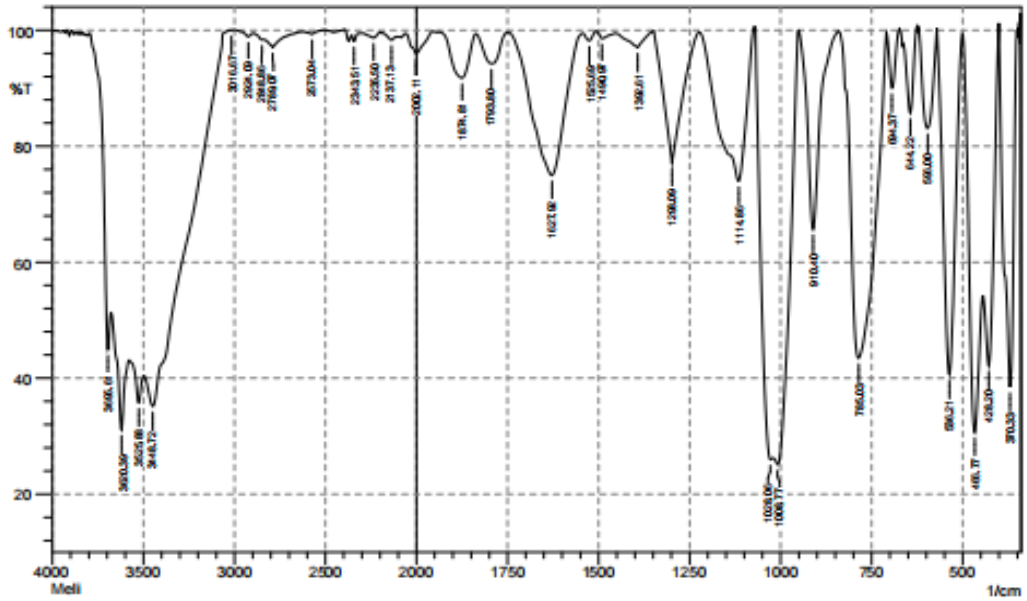

No.	Peak	Intensity	Corr. Intensity	Base (H)	Base (L)	Area	Corr. Area
1	370.33	38.4625	60.8305	401.19	352.97	10.6483	10.5737
2	428.2	42.1772	28.3945	443.63	403.12	9.8074	4.4127
3	466.77	30.6941	41.1522	499.56	445.56	16.1666	8.6286
4	536.21	40.6568	59.1799	570.93	501.49	12.2443	12.1907
5	596	83.1104	16.19	621.08	572.86	2.456	2.3078
6	644.22	85.7128	13.1632	661.58	623.01	1.2522	1.1012
7	694.37	90.0472	9.7583	709.8	673.16	0.8013	0.7791
8	785.03	43.4685	49.2762	819.75	709.8	23.4098	20.7204
9	910.4	65.6992	34.1882	950.91	840.96	6.3137	6.2534
10	1008.77	25.1112	13.7098	1020.34	952.84	23.9437	4.851
11	1028.06	25.9796	9.464	1068.56	1022.27	17.0295	3.0187
12	1114.86	73.9889	26.3543	1222.87	1072.42	10.4274	10.5194
13	1298.09	77.1455	22.6336	1348.24	1224.8	5.9278	5.7971
14	1392.61	96.9984	2.7044	1454.33	1348.24	0.7089	0.5566
15	1490.97	98.5773	1.1773	1506.41	1454.33	0.2045	0.1303
16	1525.69	98.1738	1.4723	1543.05	1506.41	0.1722	0.1176
17	1627.92	74.9854	24.5245	1747.51	1544.98	11.9226	11.5038
18	1793.8	94.2389	5.2395	1836.23	1749.44	1.2828	1.0876
19	1874.81	91.7621	7.6878	1938.46	1838.16	1.995	1.772
20	2002.11	95.9953	3.6406	2058.05	1955.82	1.0403	0.8717
21	2137.13	98.2911	0.8238	2185.35	2108.2	0.3966	0.1263
22	2235.5	98.6966	0.8595	2295.29	2198.85	0.3731	0.1797
23	2343.51	98.0633	1.1339	2355.08	2310.72	0.2133	0.0741
24	2573.04	99.3147	0.5478	2627.05	2505.53	0.1645	0.1009
25	2789.07	97.0476	1.6573	2839.22	2627.05	1.2791	0.4152
26	2848.86	98.3553	0.2119	2897.08	2839.22	0.2804	0.008
27	2924.09	98.8899	0.7219	3001.24	2897.08	0.2139	0.1029
28	3016.67	99.9865	0.0276	3024.38	3001.24	-0.0012	0.0011
29	3448.72	35.1571	11.3382	3496.94	3024.38	99.0892	6.1197
30	3525.88	35.7862	5.5363	3577.95	3498.87	31.6663	1.6236
31	3620.39	31.1313	15.3659	3676.32	3579.88	37.9245	6.2033
32	3695.61	44.9365	13.556	3793.98	3678.25	14.3812	1.8524

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Metode FTIR *(Fourier Transfrom InfraRed)* Desa Safe

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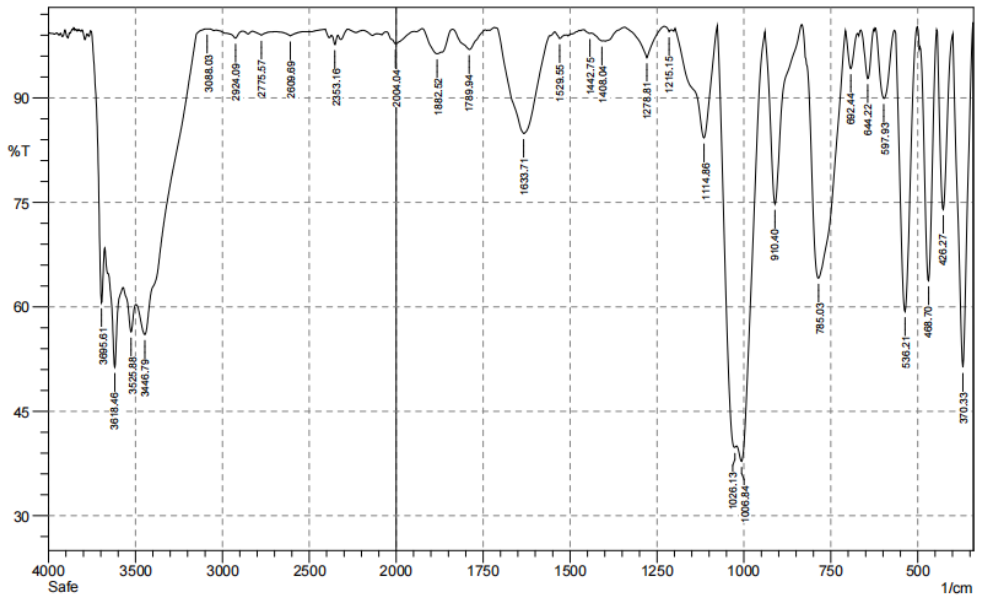

No.	Peak	Intensity	Corr. Intensity	Base (H)	Base (L)	Area	Corr. Area
1	370.33	51.322	47.8519	399.26	343.33	7.7743	7.5728
2	426.27	73.974	25.271	443.63	401.19	2.9258	2.7696
3	468.7	63.7611	34.6317	491.85	445.56	4.5425	4.2267
4	536.21	59.3125	40.5147	565.14	503.42	6.6124	6.5716
5	597.93	89.9495	9.9246	621.08	567.07	1.3966	1.3612
6	644.22	92.7776	7.0163	663.51	626.87	0.6014	0.5682
7	692.44	94.2045	5.2749	707.88	673.16	0.4985	0.4166
8	785.03	64.1057	36.0913	833.25	707.88	12.6733	12.7204
9	910.4	74.7502	25.0191	939.33	835.18	4.6845	4.6824
10	1006.84	37.8147	12.2374	1020.34	941.26	17.0885	2.3863
11	1026.13	39.8271	4.4773	1076.28	1022.27	12.5561	1.6306
12	1114.86	84.2665	15.6953	1197.79	1078.21	4.2836	4.2681
13	1215.15	99.5087	0.4587	1228.66	1207.44	0.0076	0.0108
14	1278.81	95.793	4.4309	1342.46	1228.66	0.7108	0.8174
15	1408.04	98.1945	0.0746	1438.9	1406.11	0.1791	0.0012
16	1442.75	99.2594	0.1442	1460.11	1438.9	0.0504	0.0095
17	1529.55	98.5373	0.7229	1543.05	1516.05	0.1283	0.0412
18	1633.71	84.8937	14.8997	1710.86	1544.98	6.0006	5.8342
19	1789.94	96.9635	2.8549	1838.16	1745.58	0.6735	0.6012
20	1882.52	96.3519	1.0561	1924.96	1869.02	0.592	0.1669
21	2004.04	97.7713	1.7484	2054.19	1950.03	0.6307	0.4134
22	2353.16	97.6566	1.3527	2372.44	2335.8	0.2538	0.0954
23	2609.69	98.9201	0.6075	2692.63	2528.68	0.4845	0.1474
24	2775.57	99.019	0.5366	2827.64	2692.63	0.3725	0.1083
25	2924.09	98.5975	0.8735	2980.02	2883.58	0.3666	0.1343
26	3088.03	99.8875	0.0131	3097.68	3076.46	0.0097	0.0005
27	3446.79	56.0192	9.1096	3495.01	3097.68	46.2997	5.4723
28	3525.88	56.3873	4.9101	3570.24	3496.94	16.5125	1.0429
29	3618.46	51.3243	12.5473	3657.04	3572.17	19.3503	2.7572
30	3695.61	60.5933	14.6622	3757.33	3678.25	8.0278	1.8421

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