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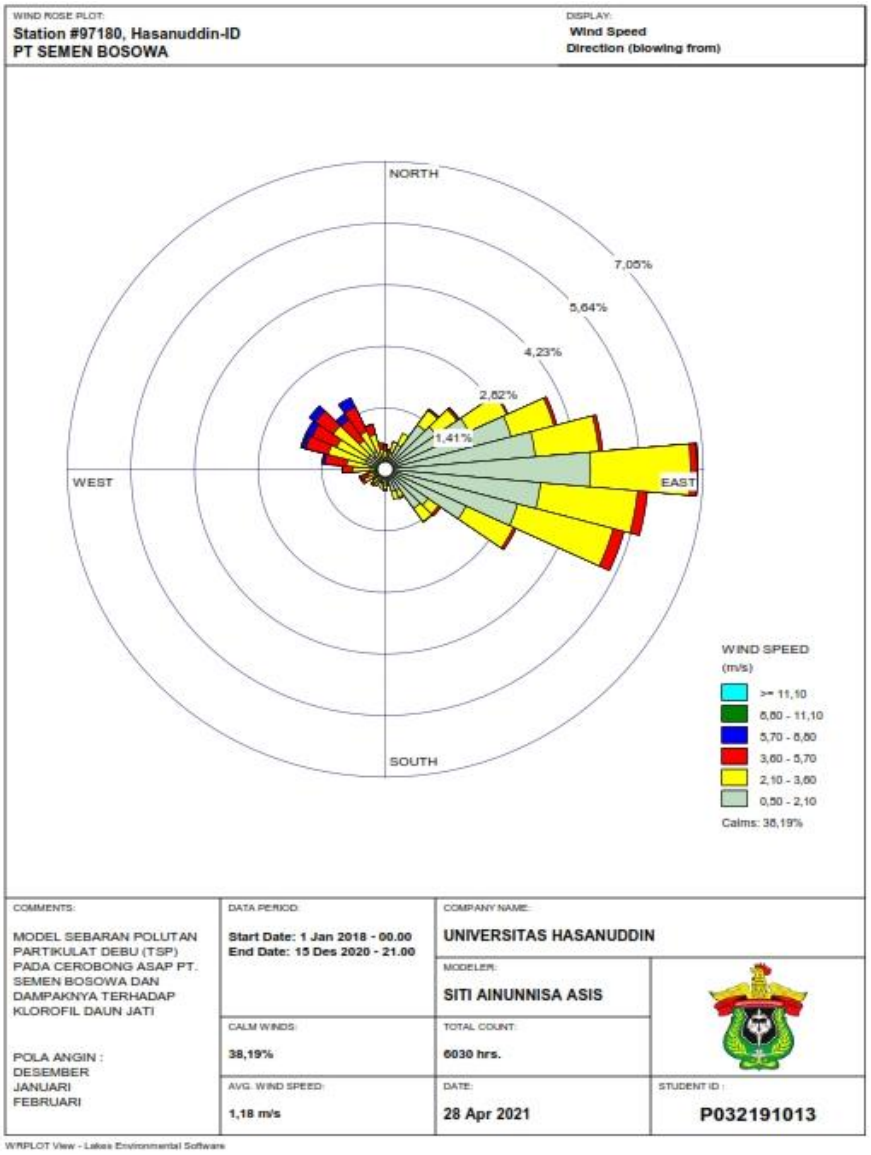
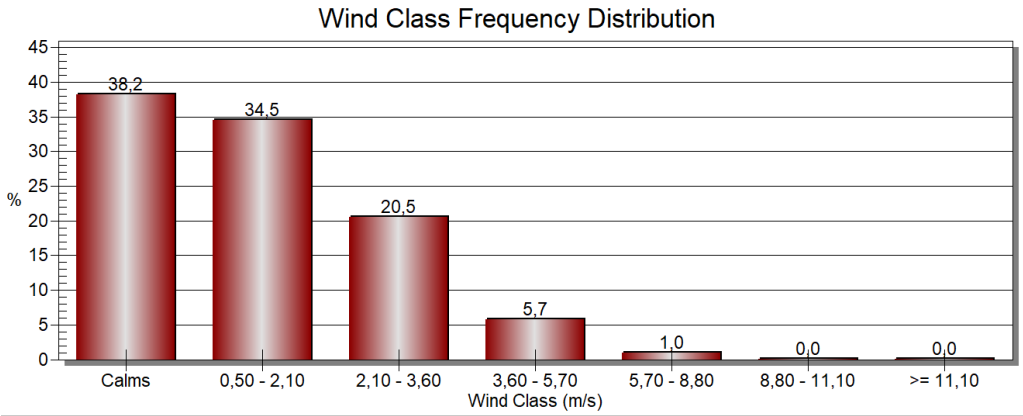
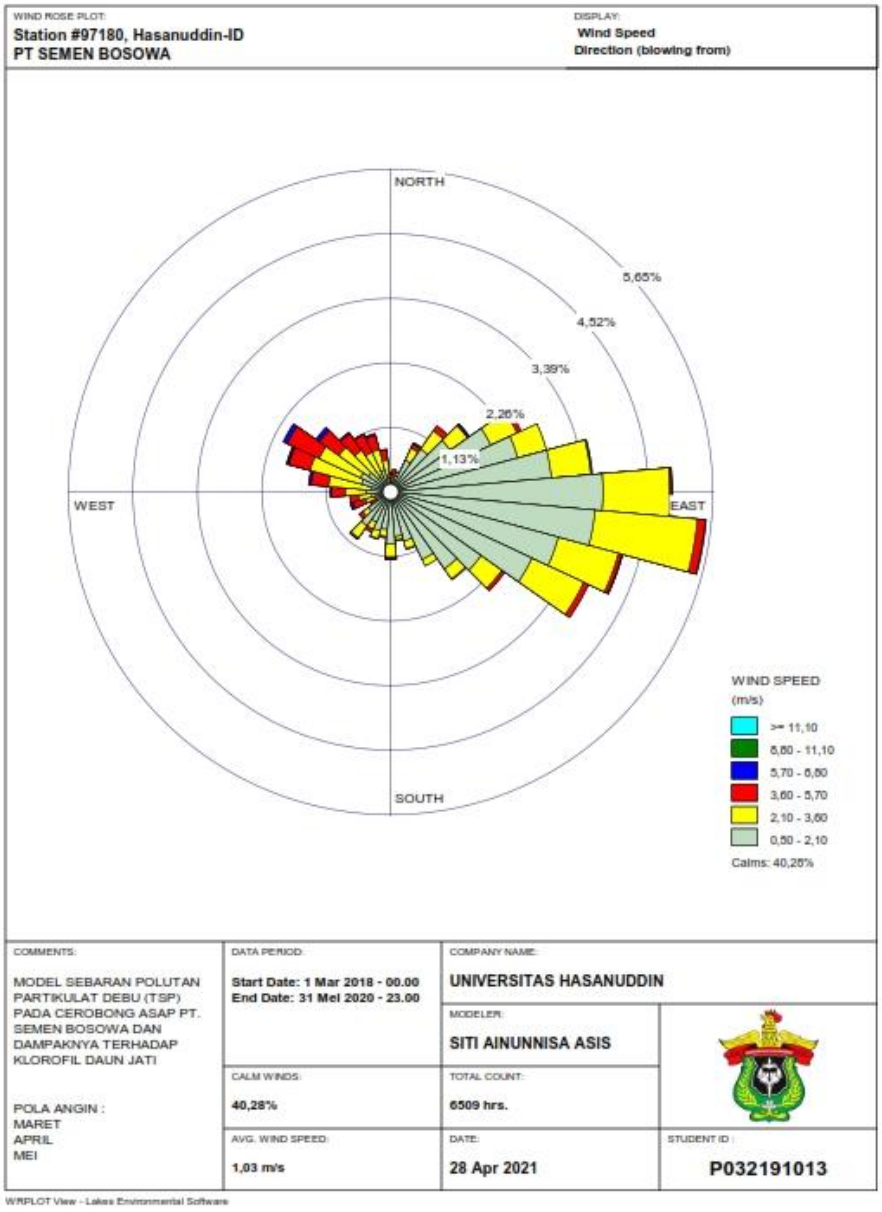
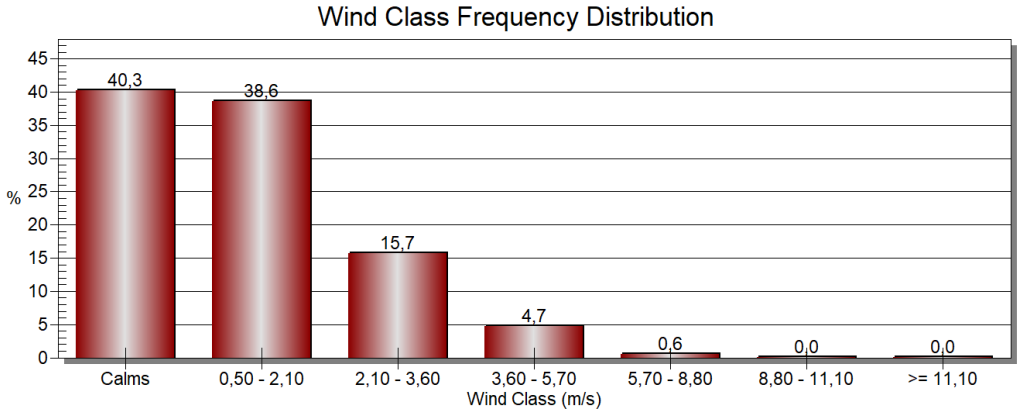
Lampiran 1

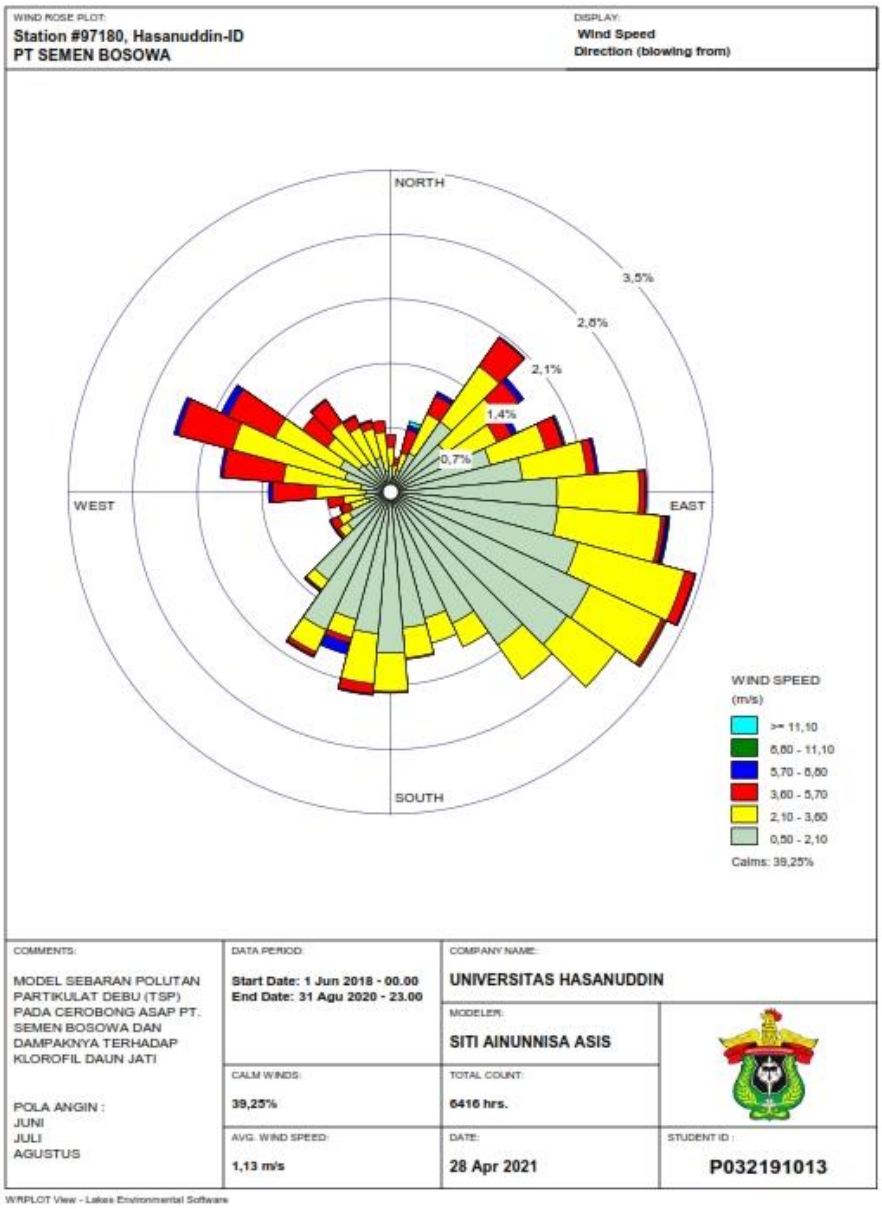
WINDROSE

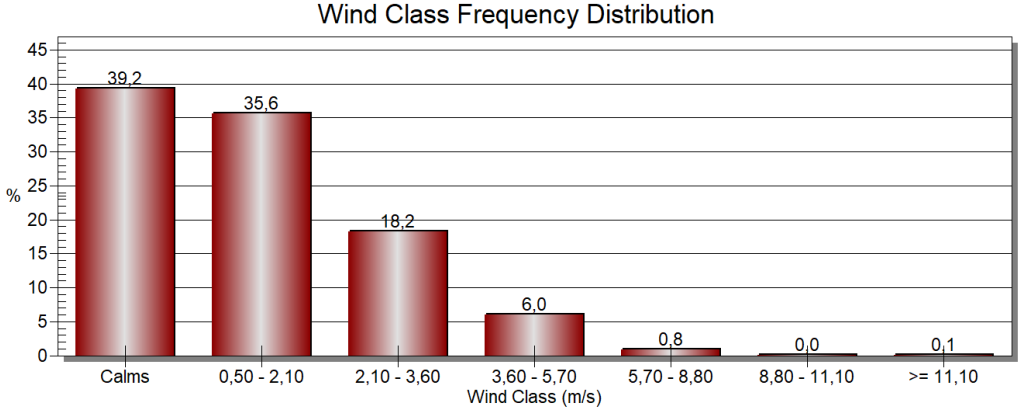


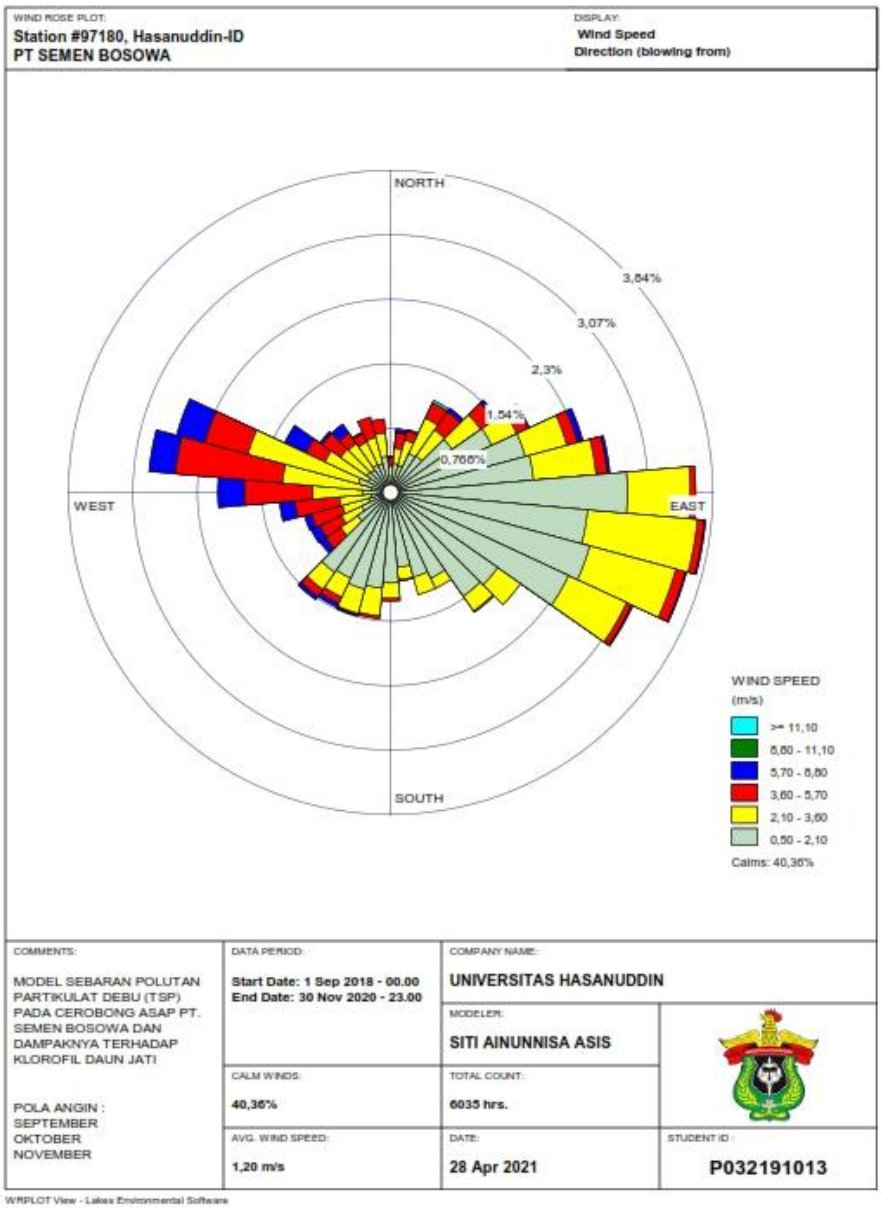


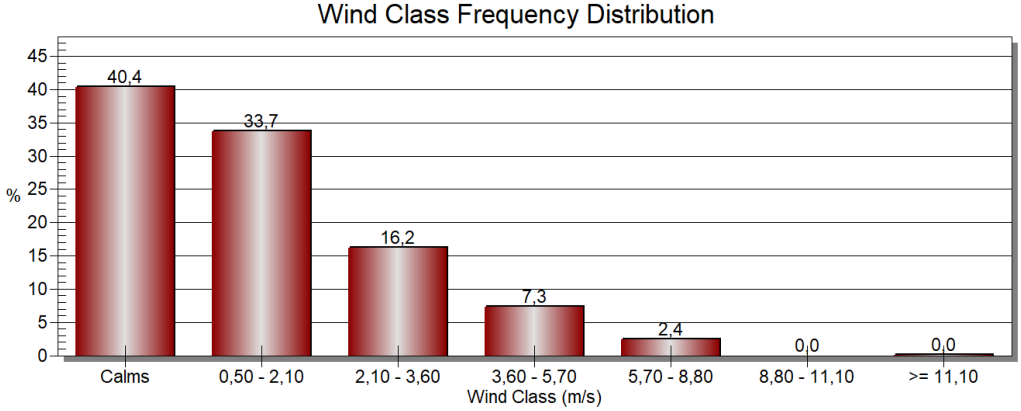

WIND ROSE PLOT:
Station #97180, Hasanuddin-ID
PT SEMEN BOSOWA
DISPLAY:
Wind Speed
Direction (blowing from)
NORTH
EAST
SOUTH
WEST
5,65%
4,52%
3,39%
2,26%
1,13%
WIND SPEED
(m/s)
>= 11,10
8,80 - 11,10
5,70 - 8,80
3,60 - 5,70
2,10 - 3,60
0,50 - 2,10
Calms: 40,28%
COMMENTS:
MODEL SEBARAN POLUTAN PARTIKULAT DEBU (TSP) PADA CEROBONG ASAP PT. SEMEN BOSOWA DAN DAMPAKNYA TERHADAP KLOROFIL DAUN JATI
POLA ANGIN :
MARET
APRIL
MEI
DATA PERIOD:
Start Date: 1 Mar 2018 - 00.00
End Date: 31 Mei 2020 - 23.00
COMPANY NAME:
UNIVERSITAS HASANUDDIN
MODELER:
SITI AINUNNISA ASIS
CALM WINDS:
40,28%
TOTAL COUNT:
6509 hrs.
AVG. WIND SPEED:
1,03 m/s
DATE:
28 Apr 2021
STUDENT ID :
P032191013
WRPLOT View - Lakes Environmental Software

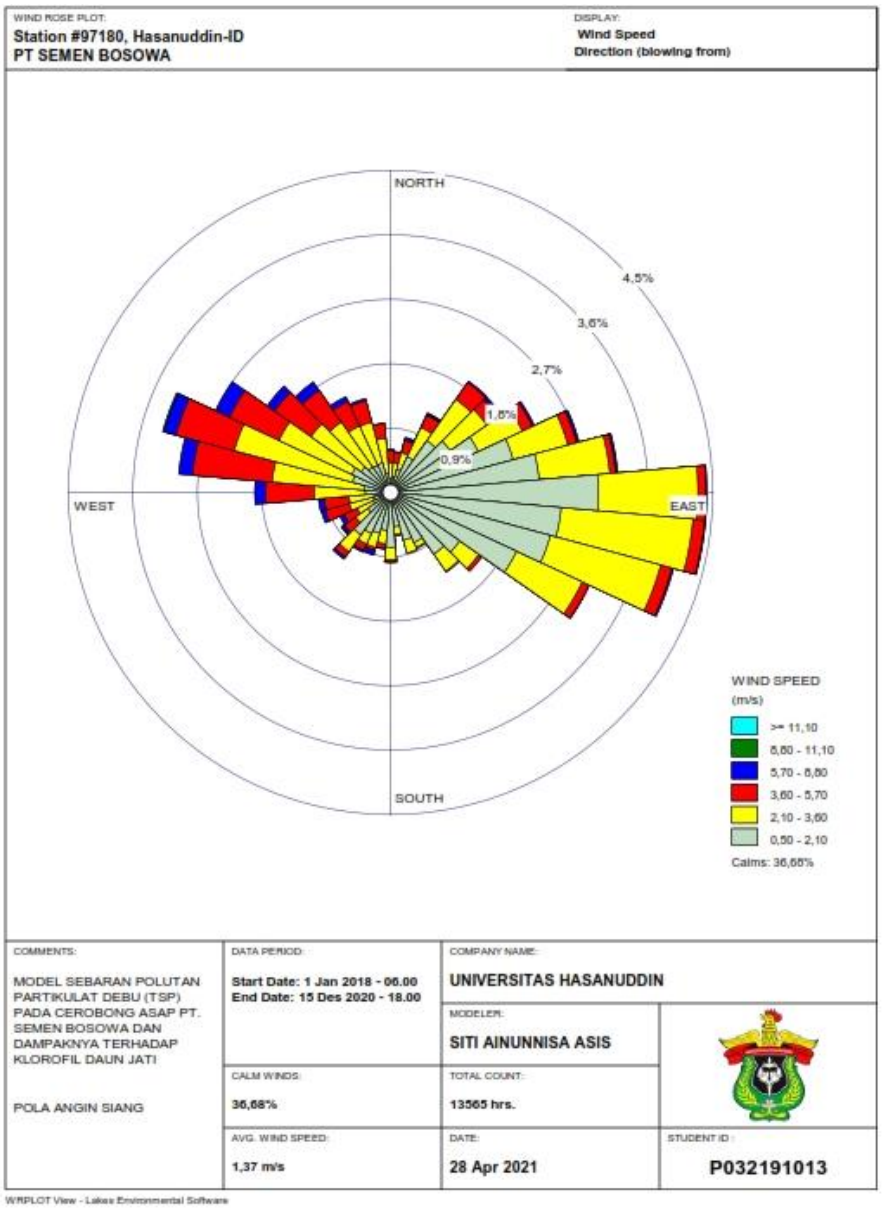

Wind Class Frequency Distribution
%
45
40
35
30
25
20
15
10
5
0
40,3
38,6
15,7
4,7
0,6
0,0
0,0
Calms
0,50 - 2,10
2,10 - 3,60
3,60 - 5,70
5,70 - 8,80
8,80 - 11,10
>= 11,10
Wind Class (m/s)

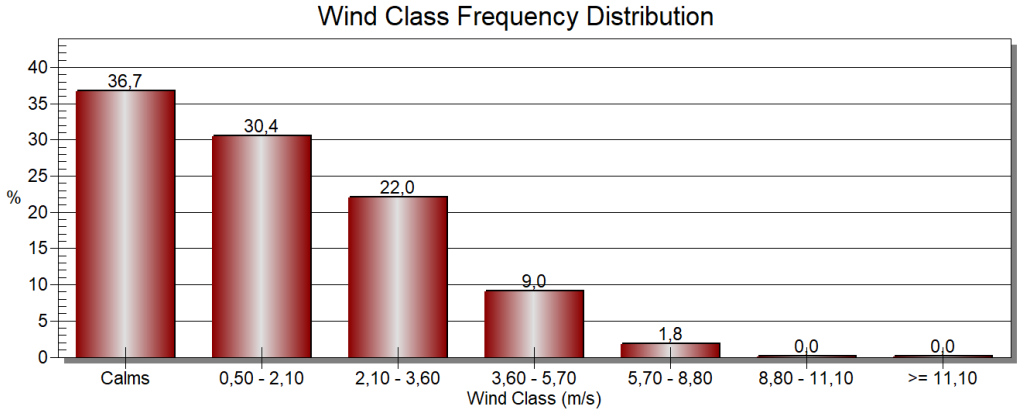

WIND ROSE PLOT:
Station #97180, Hasanuddin-ID
PT SEMEN BOSOWA
DISPLAY:
Wind Speed
Direction (blowing from)
NORTH
EAST
SOUTH
WEST
3,5%
2,8%
2,1%
1,4%
0,7%
WIND SPEED
(m/s)
>= 11,10
8,80 - 11,10
5,70 - 8,80
3,60 - 5,70
2,10 - 3,60
0,50 - 2,10
Calms: 39,25%
COMMENTS:
MODEL SEBARAN POLUTAN PARTIKULAT DEBU (TSP) PADA CEROBONG ASAP PT. SEMEN BOSOWA DAN DAMPAKNYA TERHADAP KLOROFIL DAUN JATI
POLA ANGIN :
JUNI
JULI
AGUSTUS
DATA PERIOD:
Start Date: 1 Jun 2018 - 00.00
End Date: 31 Agu 2020 - 23.00
CALM WINDS:
39,25%
AVG. WIND SPEED:
1,13 m/s
COMPANY NAME:
UNIVERSITAS HASANUDDIN
MODELER:
SITI AINUNNISA ASIS
TOTAL COUNT:
6416 hrs.
DATE:
28 Apr 2021
STUDENT ID :
P032191013
WRPLOT View - Lakes Environmental Software

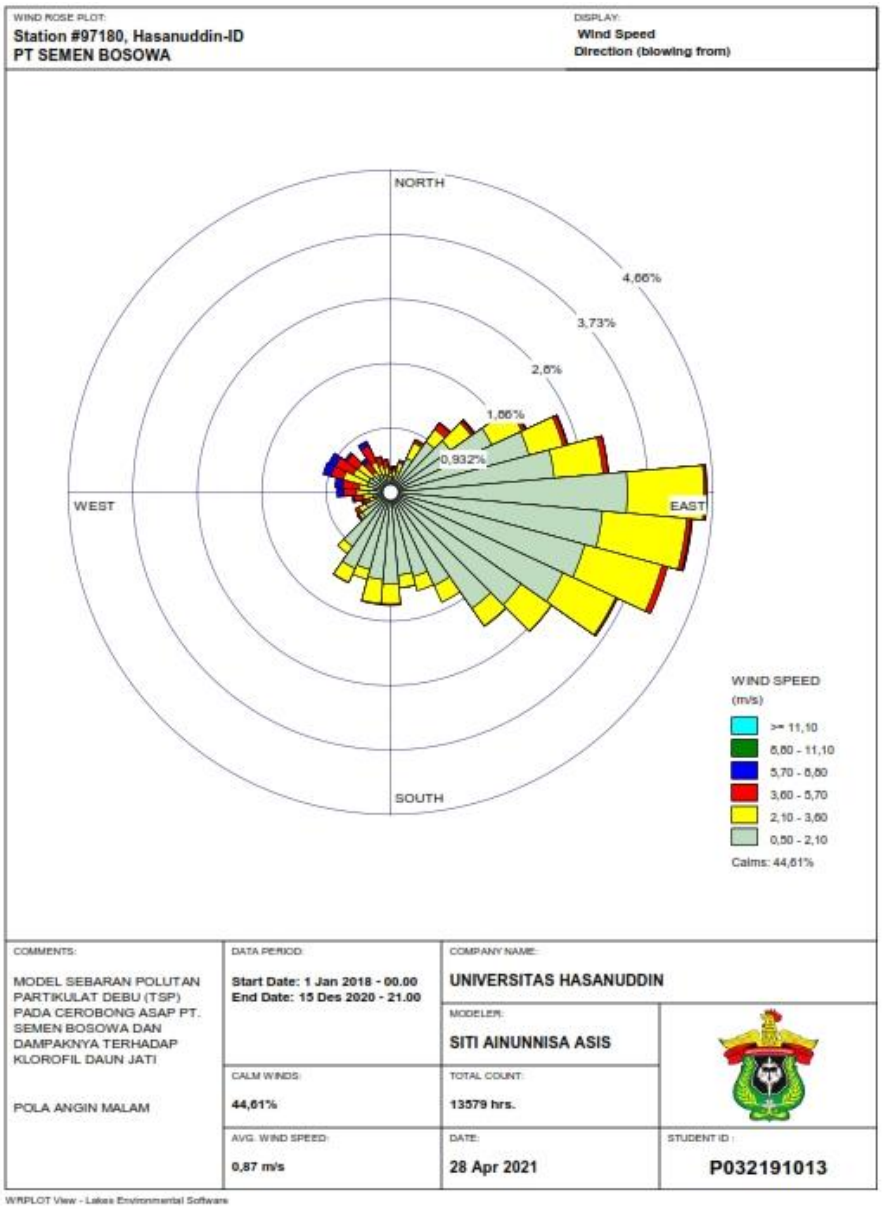

Wind Class Frequency Distribution
%
45
40
35
30
25
20
15
10
5
0
39,2
35,6
18,2
6,0
0,8
0,0
0,1
Calms
0,50 - 2,10
2,10 - 3,60
3,60 - 5,70
5,70 - 8,80
8,80 - 11,10
>= 11,10
Wind Class (m/s)

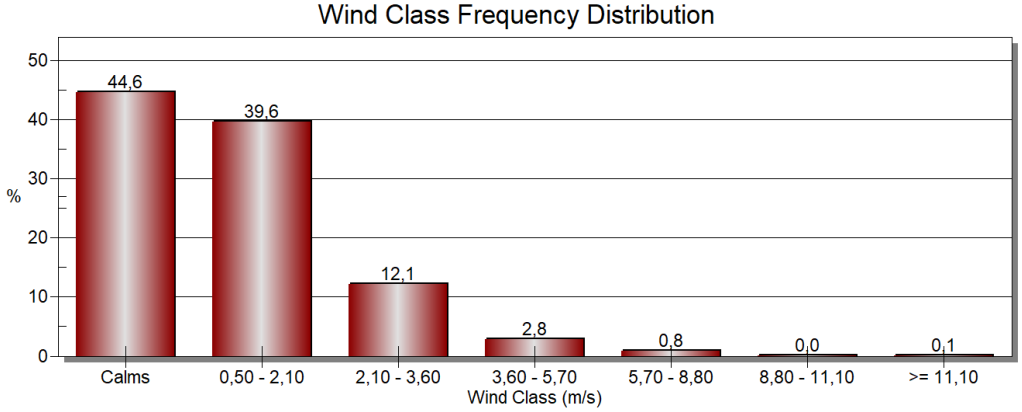

WIND ROSE PLOT:
Station #97180, Hasanuddin-ID
PT SEMEN BOSOWA
DISPLAY:
Wind Speed
Direction (blowing from)
NORTH
EAST
SOUTH
WEST
3,84%
3,07%
2,3%
1,54%
0,765%
WIND SPEED
(m/s)
>= 11,10
8,80 - 11,10
5,70 - 8,80
3,60 - 5,70
2,10 - 3,60
0,50 - 2,10
Calms: 40,36%
COMMENTS:
MODEL SEBARAN POLUTAN PARTIKULAT DEBU (TSP) PADA CEROBONG ASAP PT. SEMEN BOSOWA DAN DAMPAKNYA TERHADAP KLOROFIL DAUN JATI
POLA ANGIN :
SEPTEMBER
OKTOBER
NOVEMBER
DATA PERIOD:
Start Date: 1 Sep 2018 - 00.00
End Date: 30 Nov 2020 - 23.00
CALM WINDS:
40,36%
AVG. WIND SPEED:
1,20 m/s
COMPANY NAME:
UNIVERSITAS HASANUDDIN
MODELER:
SITI AINUNNISA ASIS
TOTAL COUNT:
6035 hrs.
DATE:
28 Apr 2021
STUDENT ID :
P032191013
WRPLOT View - Lakes Environmental Software


Wind Class Frequency Distribution
%
45
40
35
30
25
20
15
10
5
0
40,4
33,7
16,2
7,3
2,4
0,0
0,0
Calms
0,50 - 2,10
2,10 - 3,60
3,60 - 5,70
5,70 - 8,80
8,80 - 11,10
>= 11,10
Wind Class (m/s)


WIND ROSE PLOT:
Station #97180, Hasanuddin-ID
PT SEMEN BOSOWA
DISPLAY:
Wind Speed
Direction (blowing from)
NORTH
EAST
SOUTH
WEST
4,5%
3,6%
2,7%
1,8%
0,9%
WIND SPEED
(m/s)
>= 11,10
8,80 - 11,10
5,70 - 8,80
3,60 - 5,70
2,10 - 3,60
0,50 - 2,10
Calms: 36,68%
COMMENTS:
MODEL SEBARAN POLUTAN PARTIKULAT DEBU (TSP) PADA CEROBONG ASAP PT. SEMEN BOSOWA DAN DAMPAKNYA TERHADAP KLOROFIL DAUN JATI
POLA ANGIN SIANG
DATA PERIOD:
Start Date: 1 Jan 2018 - 06.00
End Date: 15 Des 2020 - 18.00
CALM WINDS:
36,68%
AVG. WIND SPEED:
1,37 m/s
COMPANY NAME:
UNIVERSITAS HASANUDDIN
MODELER:
SITI AINUNNISA ASIS
TOTAL COUNT:
13565 hrs.
DATE:
28 Apr 2021
STUDENT ID :
P032191013
WRPLOT View - Lakes Environmental Software

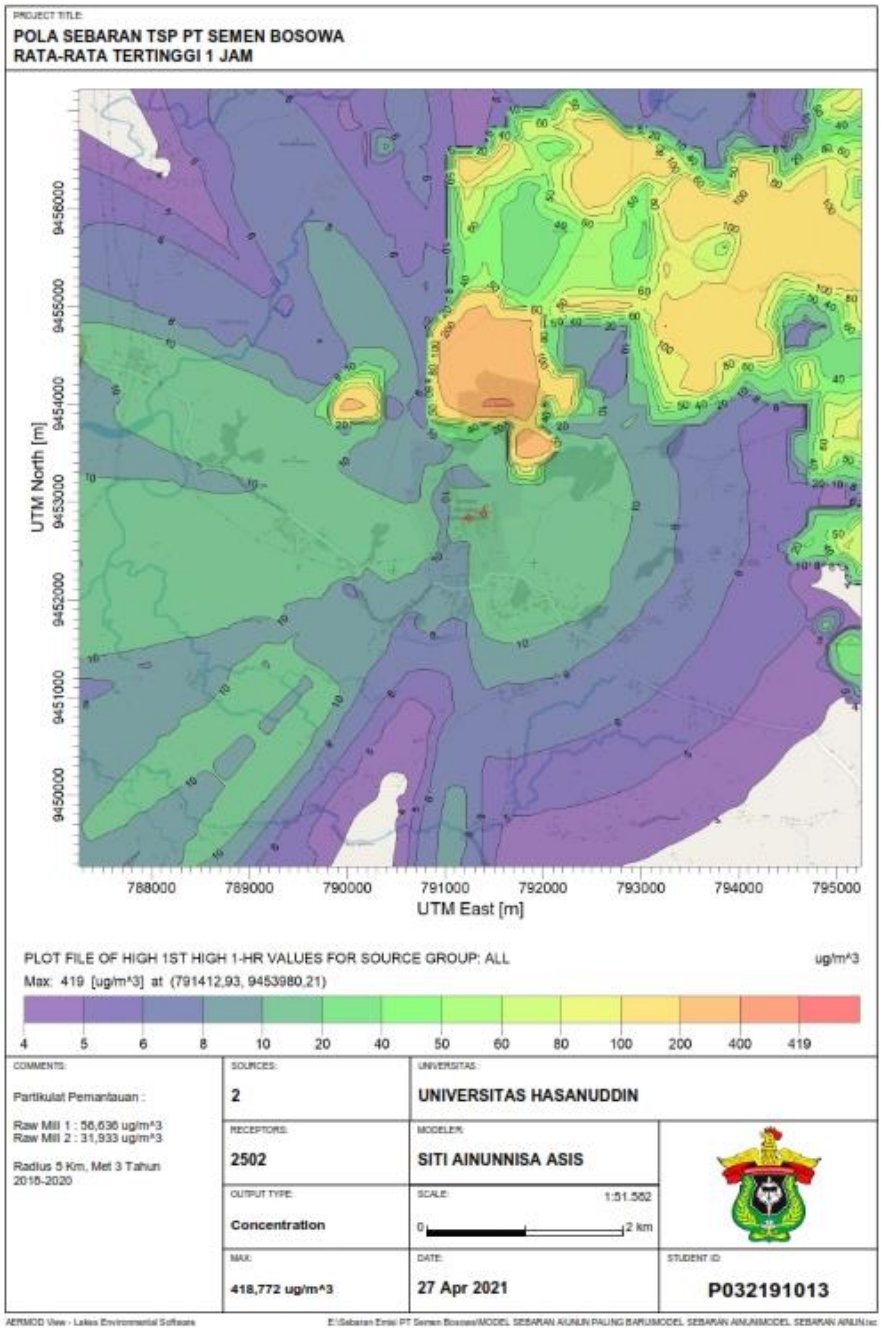

Wind Class Frequency Distribution
%
40
35
30
25
20
15
10
5
0
36,7
30,4
22,0
9,0
1,8
0,0
0,0
Calms
0,50 - 2,10
2,10 - 3,60
3,60 - 5,70
5,70 - 8,80
8,80 - 11,10
>= 11,10
Wind Class (m/s)

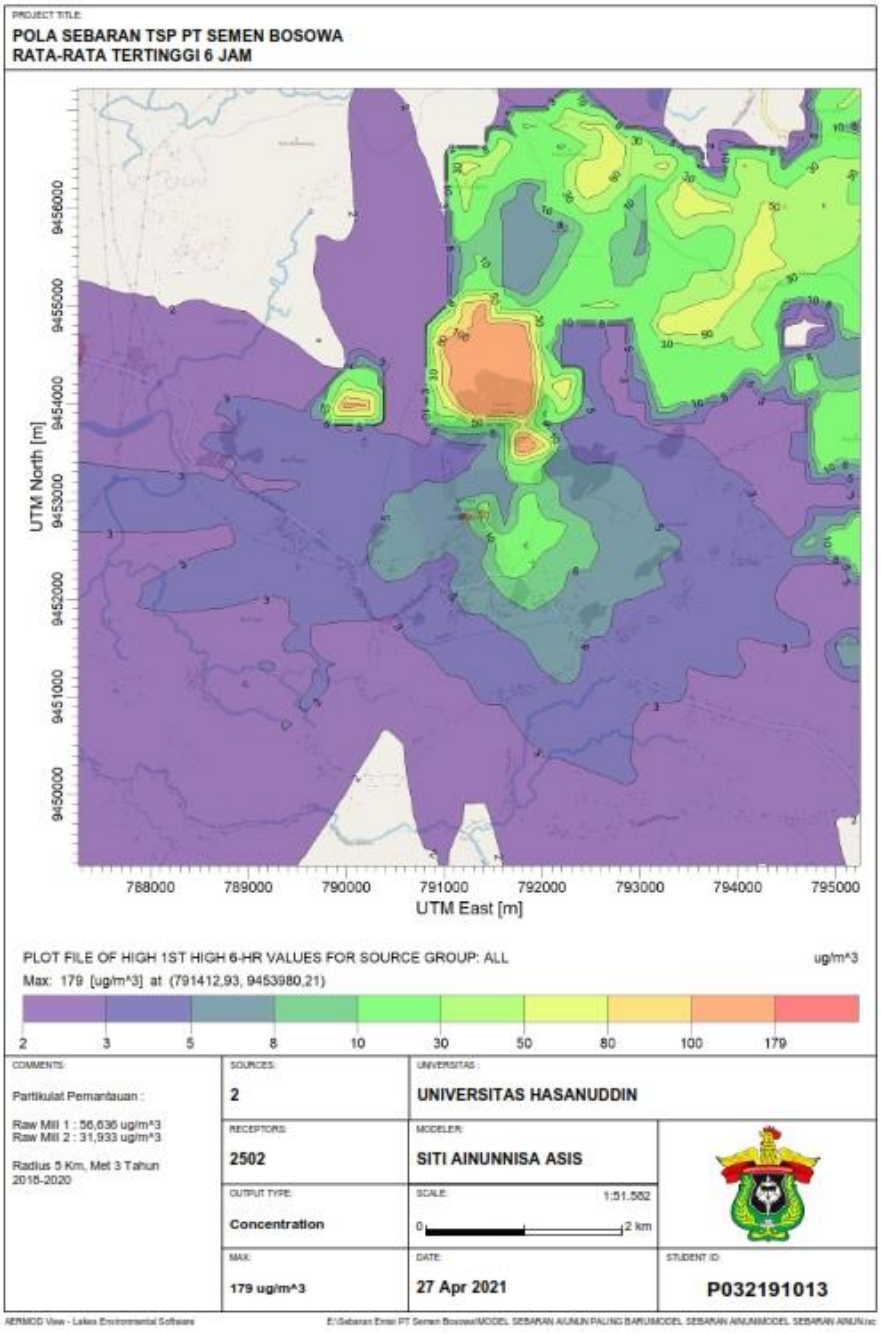

WIND ROSE PLOT:
Station #97180, Hasanuddin-ID
PT SEMEN BOSOWA
DISPLAY:
Wind Speed
Direction (blowing from)
NORTH
EAST
SOUTH
WEST
4,66%
3,73%
2,8%
1,86%
0,932%
WIND SPEED
(m/s)
>= 11,10
8,80 - 11,10
5,70 - 8,80
3,60 - 5,70
2,10 - 3,60
0,50 - 2,10
Calms: 44,61%
COMMENTS:
MODEL SEBARAN POLUTAN PARTIKULAT DEBU (TSP) PADA CEROBONG ASAP PT. SEMEN BOSOWA DAN DAMPAKNYA TERHADAP KLOROFIL DAUN JATI
POLA ANGIN MALAM
DATA PERIOD:
Start Date: 1 Jan 2018 - 00.00
End Date: 15 Des 2020 - 21.00
COMPANY NAME:
UNIVERSITAS HASANUDDIN
MODELER:
SITI AINUNNISA ASIS
CALM WINDS:
44,61%
TOTAL COUNT:
13579 hrs.
AVG. WIND SPEED:
0,87 m/s
DATE:
28 Apr 2021
STUDENT ID :
P032191013
WRPLOT View - Lakes Environmental Software


Wind Class Frequency Distribution
%
50
40
30
20
10
0
44,6
39,6
12,1
2,8
0,8
0,0
0,1
Calms
0,50 - 2,10
2,10 - 3,60
3,60 - 5,70
5,70 - 8,80
8,80 - 11,10
>= 11,10
Wind Class (m/s)

LAMPIRAN 2

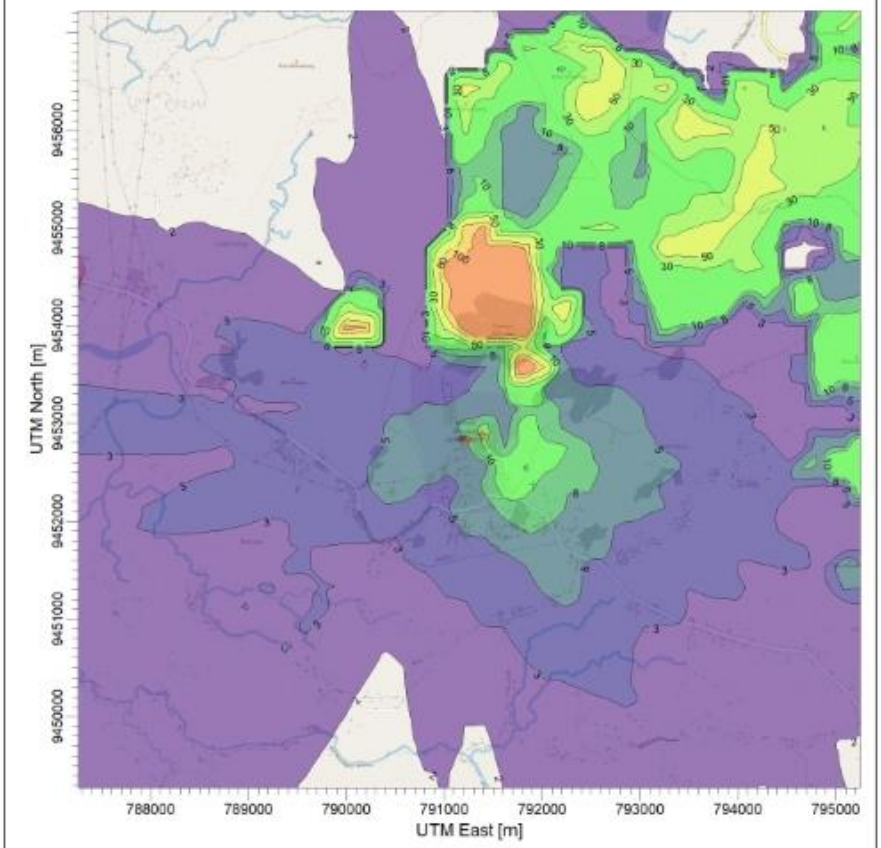
MODEL SEBARAN PARTIKULAT




PROJECT TITLE:
POLA SEBARAN TSP PT SEMEN BOSOWA
RATA-RATA TERTINGGI 6 JAM
UTM North [m]
9458000
9455000
9454000
9453000
9452000
9451000
9450000
788000
789000
790000
791000
792000
793000
794000
795000
UTM East [m]
PLOT FILE OF HIGH 1ST HIGH 6-HR VALUES FOR SOURCE GROUP: ALL
ug/m^3
Max: 179 [ug/m^3] at (791412,93, 9453980,21)
2
3
5
8
10
30
50
80
100
179
COMMENTS:
Partikulat Pemantauan :
Raw Mill 1 : 56,636 ug/m^3
Raw Mill 2 : 31,933 ug/m^3
Radius 5 Km, Met 3 Tahun 2015-2020
SOURCES:
2
RECEPTORS:
2502
OUTPUT TYPE:
Concentration
MAX:
179 ug/m^3
UNIVERSITAS :
UNIVERSITAS HASANUDDIN
MODELER:
SITI AINUNNISA ASIS
SCALE:
1:51.562
0
2 km
DATE:
27 Apr 2021
STUDENT ID:
P032191013
AERMOD View - Lakes Environmental Software
E:\Sebaran Emisi PT Semen Bosowa\MODEL SEBARAN AIUNUN PALING BARU\MODEL SEBARAN AINUN\MODEL SEBARAN AINUN.isc

PROJECT TITLE:

POLA SEBARAN TSP PT SEMEN BOSOWA
RATA-RATA TERTINGGI 6 JAM



PLOT FILE OF HIGH 1ST HIGH 6-HR VALUES FOR SOURCE GROUP: ALL ug/m^3

Max: 179 [ug/m^3] at (791412.93, 9453980.21)

2 3 5 8 10 30 50 80 100 179

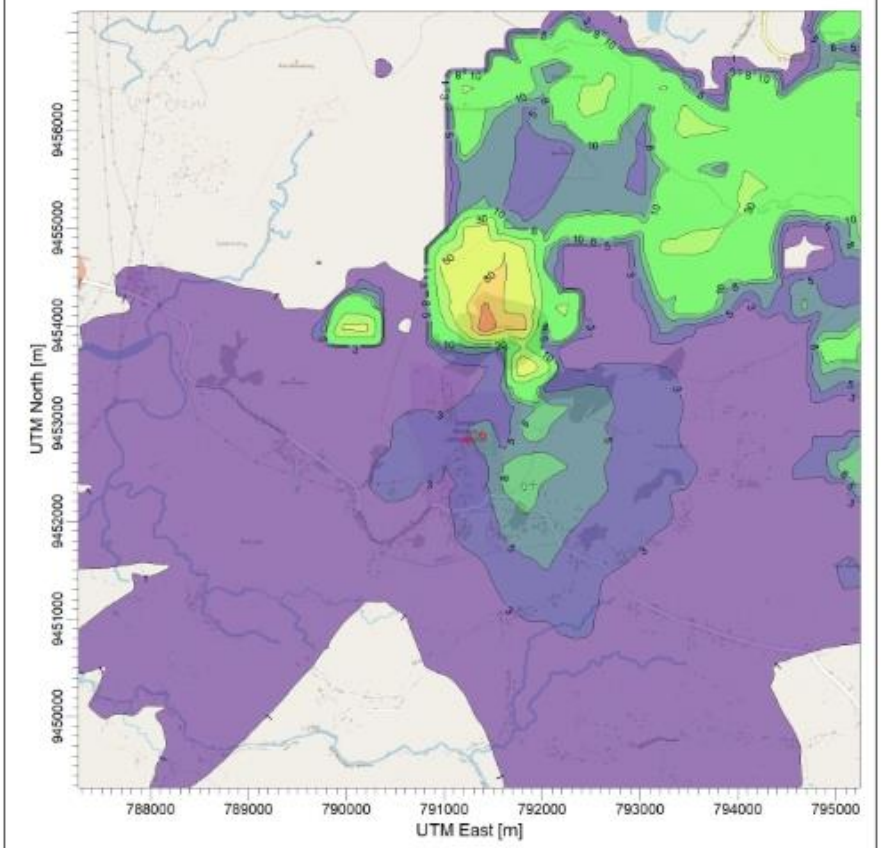
COMMENTS: Partikulat Pemantauan : Raw Mill 1 : 56,636 ug/m^3 Raw Mill 2 : 31,933 ug/m^3 Radius 5 Km, Met 3 Tahun 2016-2020	SOURCES: 2	UNIVERSITAS: UNIVERSITAS HASANUDDIN	
	RECEPTORS: 2502	MODELER: SITI AINUNNISA ASIS	
	OUTPUT TYPE: Concentration	SCALE: 1:51,562 0 2 km	
	MAX: 179 ug/m^3	DATE: 27 Apr 2021	STUDENT ID: P032191013

AERMOD View - Lakes Environmental Software

E:\Sebaran Emisi PT Semen Bosowa\MODEL SEBARAN AIUNIN PALING BARU\MODEL SEBARAN AINUNMODEL SEBARAN AINUN.isc

PROJECT TITLE:

POLA SEBARAN TSP PT SEMEN BOSOWA
RATA-RATA TERTINGGI 12 JAM



PLOT FILE OF HIGH 1ST HIGH 12-HR VALUES FOR SOURCE GROUP: ALL ug/m^3

Max: 121 [ug/m^3] at (791412.93, 9453980.21)

1 3 5 8 10 30 50 80 100 121

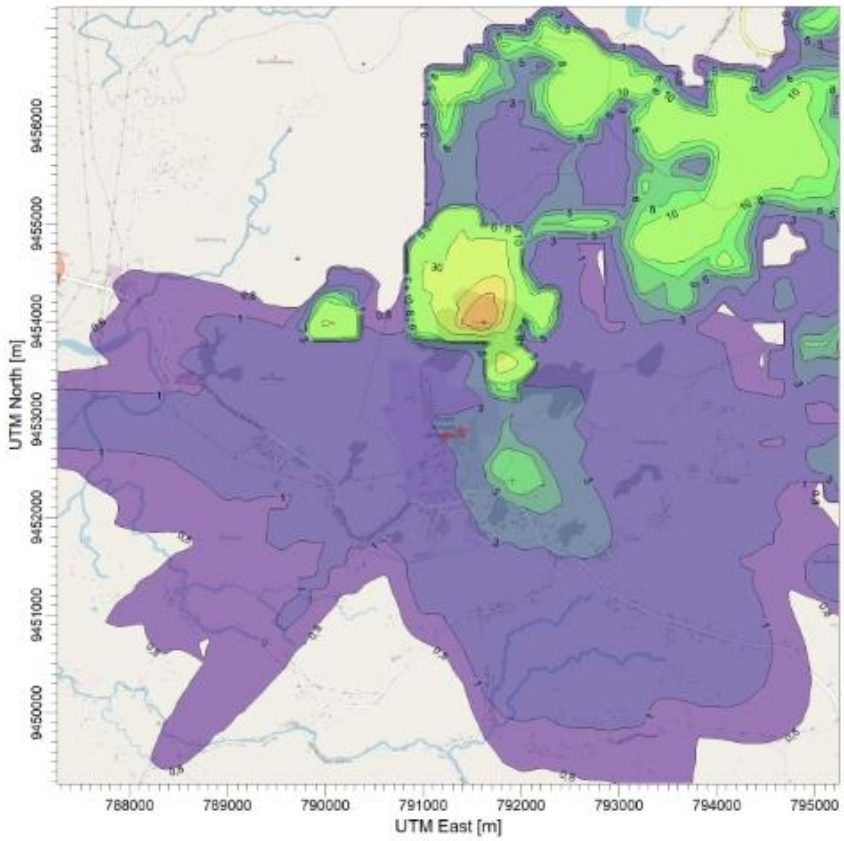
COMMENTS: Partikulat Pemantauan : Raw Mill 1 : 56,636 ug/m^3 Raw Mill 2 : 31,933 ug/m^3 Radius 5 Km, Met 3 Tahun 2016-2020	SOURCES: 2	UNIVERSITAS: UNIVERSITAS HASANUDDIN	
	RECEPTORS: 2502	MODELER: SITI AINUNNISA ASIS	
	OUTPUT TYPE: Concentration	SCALE: 1:51,562 0 2 km	
	MAX: 121 ug/m^3	DATE: 27 Apr 2021	STUDENT ID: P032191013

AERMOD View - Lakes Environmental Software

E:\Sebaran Emisi PT Semen Bosowa\MODEL SEBARAN AIUNIN PALING BARU\MODEL SEBARAN AINUNMODEL SEBARAN AINUN.isc

PROJECT TITLE:

POLA SEBARAN TSP PT SEMEN BOSOWA
RATA-RATA TERTINGGI 24 JAM



PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL ug/m^3

Max: 82,4 [ug/m^3] at (791617,01, 9453980,21)

0,8 1,0 3,0 5,0 6,0 8,0 10,0 30,0 50,0 60,0 80,0 82,4

COMMENTS: Partikulat Pemantauan : Raw Mill 1 : 56,636 ug/m^3 Raw Mill 2 : 31,933 ug/m^3 Radius 5 Km, Met 3 Tahun 2016-2020	SOURCES: 2	UNIVERSITAS : UNIVERSITAS HASANUDDIN	
	RECEPTORS: 2502	MODELER: SITI AINUNNISA ASIS	
	OUTPUT TYPE: Concentration	SCALE: 1:51.576 0 2 km	
	MAX: 82,4 ug/m^3	DATE: 27 Apr 2021	STUDENT ID: P032191013

AERMOD View - Lakes Environmental Software

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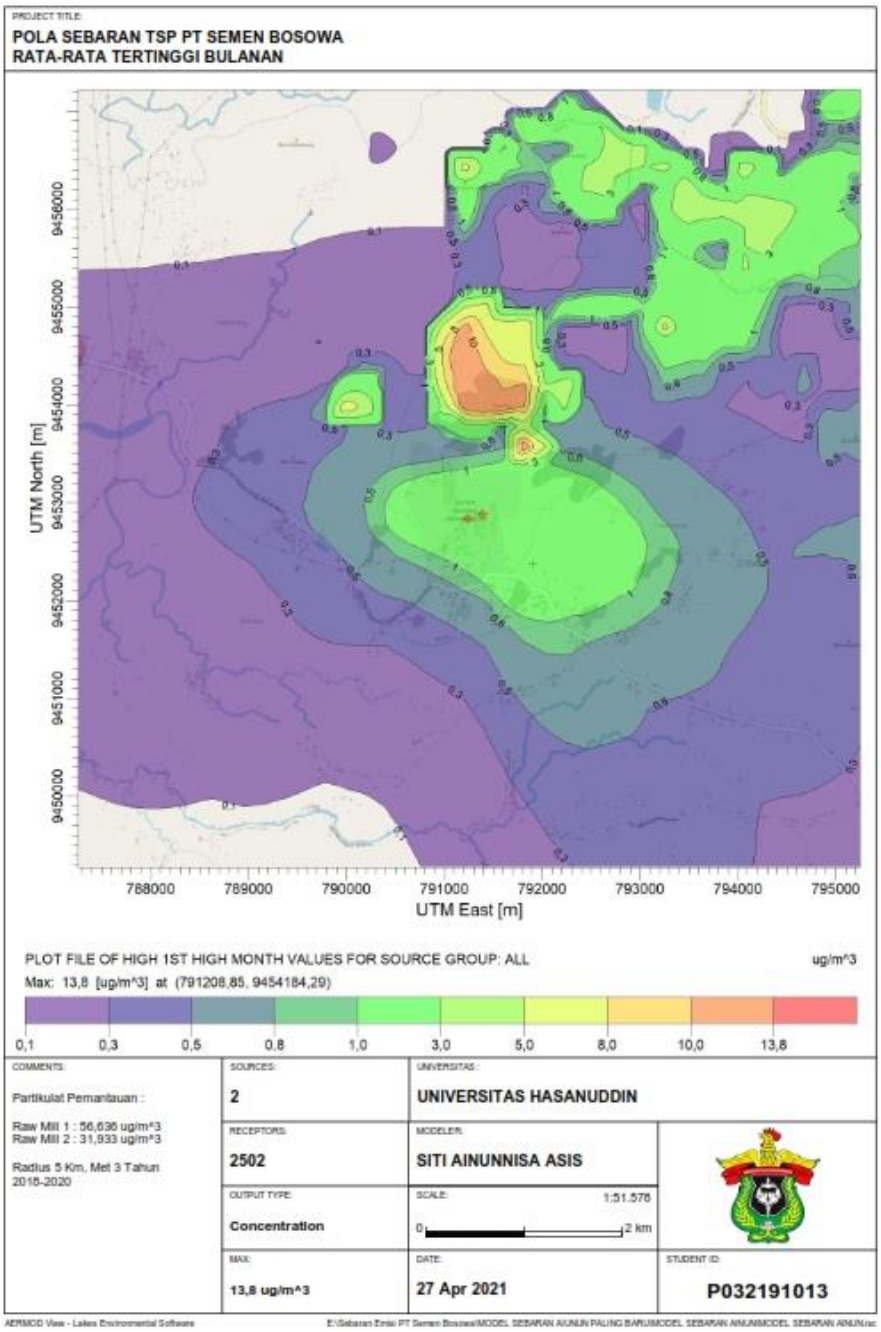
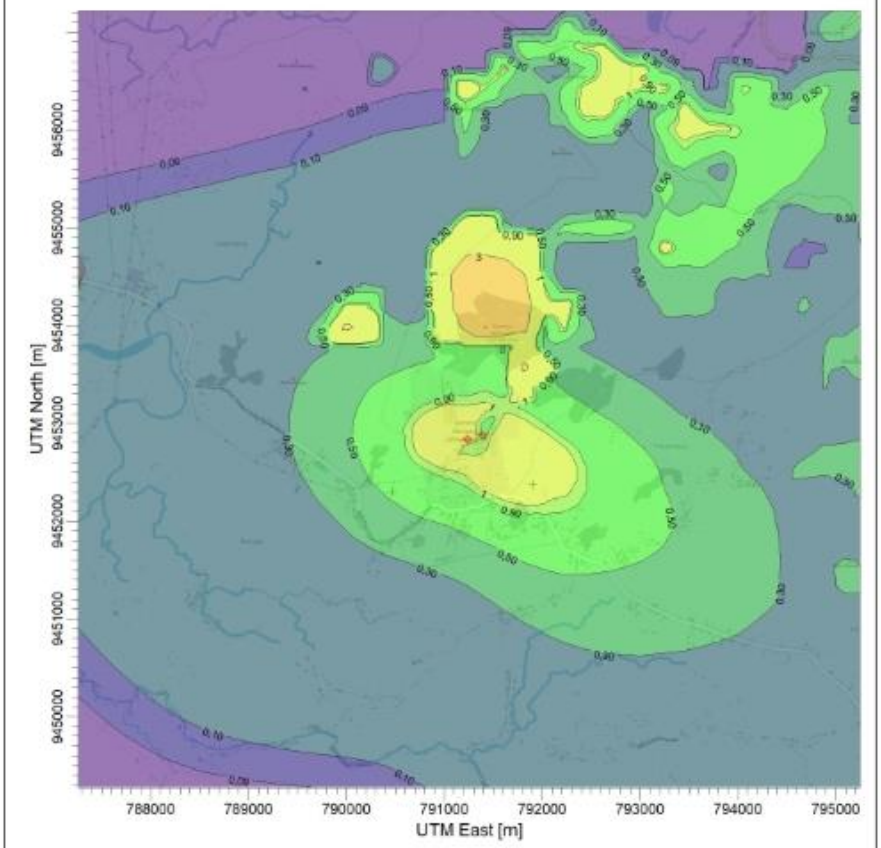

PROJECT TITLE:
POLA SEBARAN TSP PT SEMEN BOSOWA
RATA-RATA TERTINGGI BULANAN
UTM North [m]
9456000
9455000
9454000
9453000
9452000
9451000
9450000
788000
789000
790000
791000
792000
793000
794000
795000
UTM East [m]
PLOT FILE OF HIGH 1ST HIGH MONTH VALUES FOR SOURCE GROUP: ALL
ug/m^3
Max: 13,8 [ug/m^3] at (791208,85, 9454184,29)
0,1
0,3
0,5
0,8
1,0
3,0
5,0
8,0
10,0
13,8
COMMENTS:
Partikulat Pemantauan :
Raw Mill 1 : 56,636 ug/m^3
Raw Mill 2 : 31,933 ug/m^3
Radius 5 Km, Met 3 Tahun 2016-2020
SOURCES:
2
UNIVERSITAS :
UNIVERSITAS HASANUDDIN
RECEPTORS:
2502
MODELER:
SITI AINUNNISA ASIS
OUTPUT TYPE:
Concentration
SCALE:
1:51.576
0
2 km
MAX:
13,8 ug/m^3
DATE:
27 Apr 2021
STUDENT ID:
P032191013
AERMOD View - Lakes Environmental Software
E:\Sebaran Emisi PT Semen Bosowa\MODEL SEBARAN AIUNIN PALING BARU\MODEL SEBARAN AINUNMODEL SEBARAN AINUN.isc

PROJECT TITLE:

POLA SEBARAN TSP PT SEMEN BOSOWA
RATA-RATA TERTINGGI TAHUNAN



PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL ug/m^3

Max: 5,03 [ug/m^3] at (791412,93, 9453980,21)

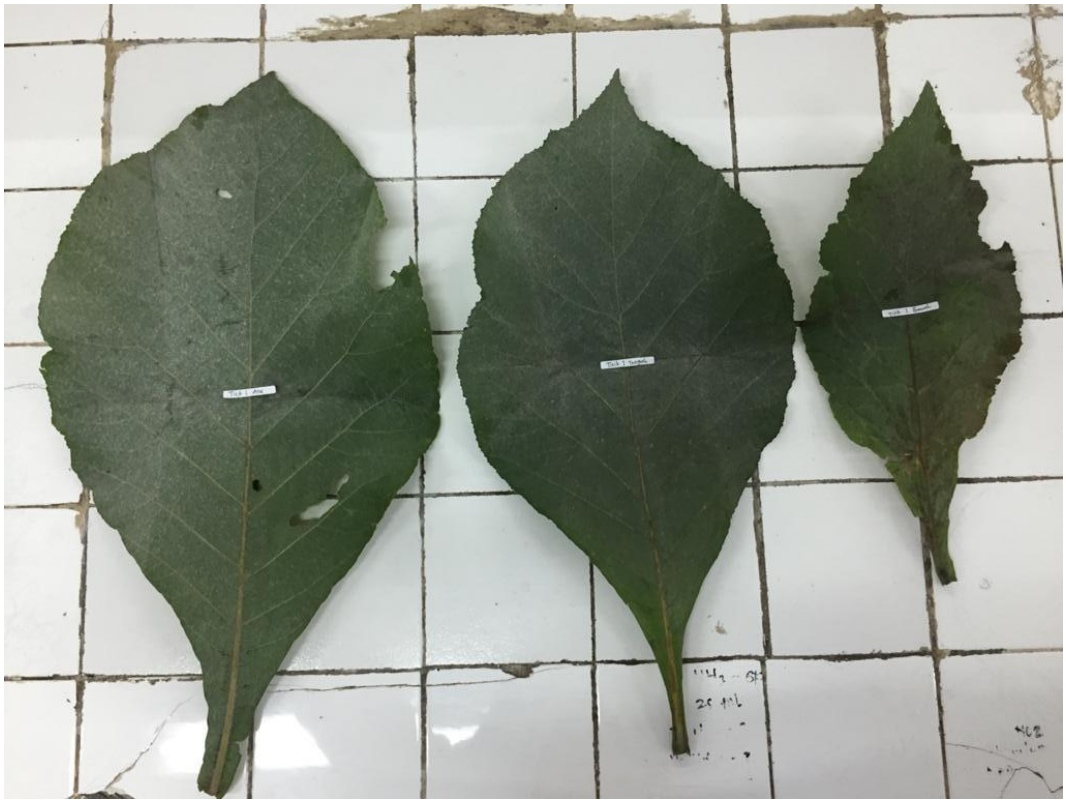
0,05 0,09 0,10 0,30 0,50 0,90 1,00 3,00 5,00 5,03

COMMENTS:	SOURCES:	UNIVERSITAS:	
Partikulat Pemantauan : Raw Mill 1 : 56,636 ug/m^3 Raw Mill 2 : 31,933 ug/m^3 Radius 5 Km, Met 3 Tahun 2016-2020	2	UNIVERSITAS HASANUDDIN	
	RECEPTORS: 2502	MODELER: SITI AINUNNISA ASIS	
	OUTPUT TYPE: Concentration	SCALE: 1:51.575 0 2 km	
	MAX: 5,03 ug/m^3	DATE: 27 Apr 2021	STUDENT ID: P032191013

AERMOD View - Lakes Environmental Software E:\Sebaran Emisi PT Semen Bosowa\MODEL SEBARAN AIUNIN PALING BARU\MODEL SEBARAN AINUNMODEL SEBARAN AINUN.isc

LAMPIRAN 3

FOTO HASIL PENELITIAN

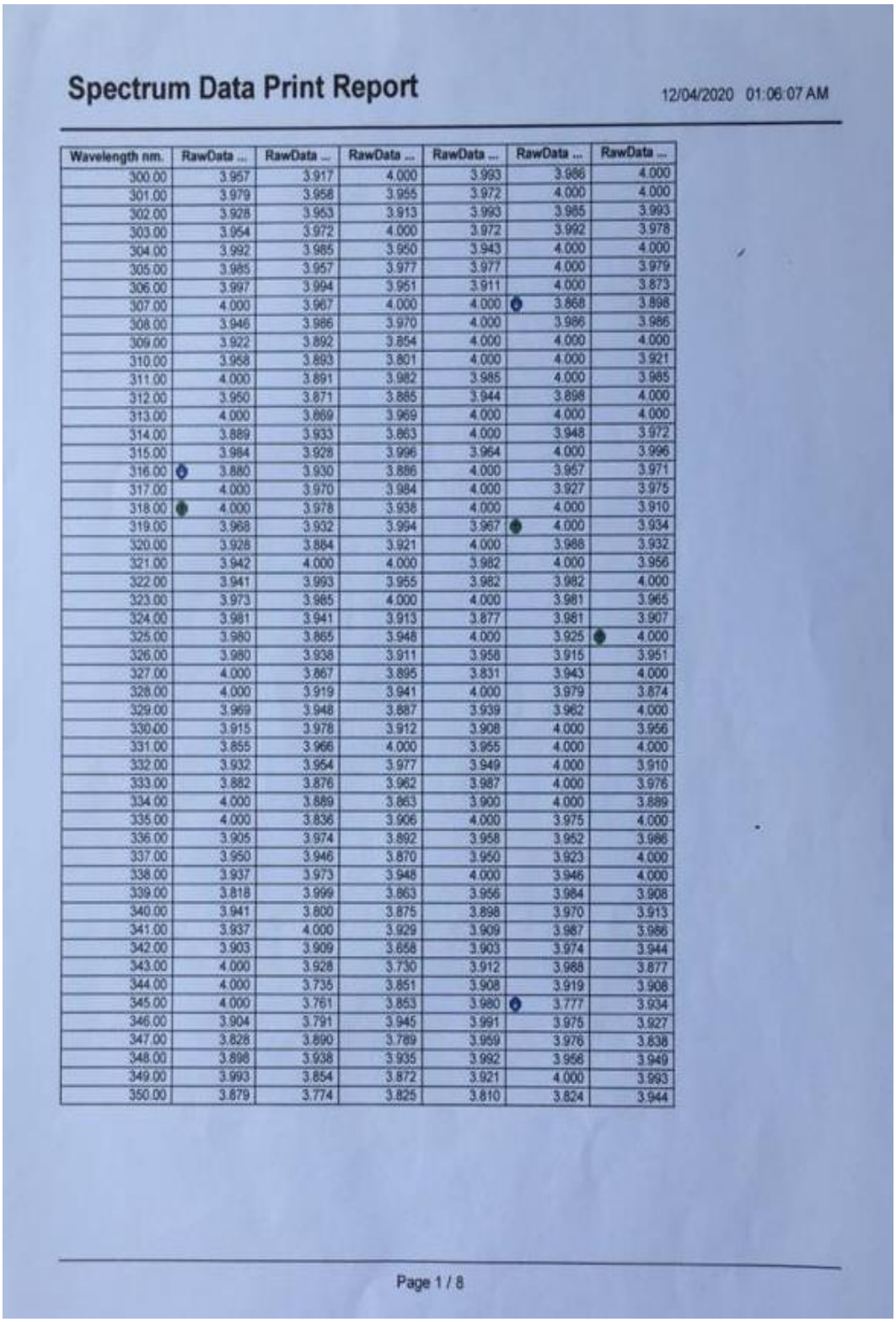


Gambar daun jati stasiun 1

Gambar daun jati stasiun 2

LAMPIRAN 4

Spectrum Data Print Report



Spectrum Data Print Report

12/04/2020 01:06:07 AM

Wavelength nm.	RawData ...	RawData ...	RawData ...	RawData ...	RawData ...	RawData ...
300.00	3.957	3.917	4.000	3.993	3.986	4.000
301.00	3.979	3.958	3.955	3.972	4.000	4.000
302.00	3.928	3.953	3.913	3.993	3.985	3.993
303.00	3.954	3.972	4.000	3.972	3.992	3.978
304.00	3.992	3.985	3.950	3.943	4.000	4.000
305.00	3.985	3.957	3.977	3.977	4.000	3.979
306.00	3.997	3.994	3.951	3.911	4.000	3.873
307.00	4.000	3.967	4.000	4.000	3.868	3.898
308.00	3.946	3.986	3.970	4.000	3.986	3.986
309.00	3.922	3.892	3.854	4.000	4.000	4.000
310.00	3.958	3.893	3.801	4.000	4.000	3.921
311.00	4.000	3.891	3.982	3.985	4.000	3.985
312.00	3.950	3.871	3.885	3.944	3.898	4.000
313.00	4.000	3.869	3.969	4.000	4.000	4.000
314.00	3.889	3.933	3.863	4.000	3.948	3.972
315.00	3.984	3.928	3.996	3.964	4.000	3.996
316.00	3.880	3.930	3.886	4.000	3.957	3.971
317.00	4.000	3.970	3.984	4.000	3.927	3.975
318.00	4.000	3.978	3.938	4.000	4.000	3.910
319.00	3.968	3.932	3.994	3.967	4.000	3.934
320.00	3.928	3.884	3.921	4.000	3.988	3.932
321.00	3.942	4.000	4.000	3.982	4.000	3.956
322.00	3.941	3.993	3.955	3.982	3.982	4.000
323.00	3.973	3.985	4.000	4.000	3.981	3.965
324.00	3.981	3.941	3.913	3.877	3.981	3.907
325.00	3.980	3.865	3.948	4.000	3.925	4.000
326.00	3.980	3.938	3.911	3.958	3.915	3.951
327.00	4.000	3.867	3.895	3.831	3.943	4.000
328.00	4.000	3.919	3.941	4.000	3.979	3.874
329.00	3.969	3.948	3.887	3.939	3.962	4.000
330.00	3.915	3.978	3.912	3.908	4.000	3.956
331.00	3.855	3.966	4.000	3.955	4.000	4.000
332.00	3.932	3.954	3.977	3.949	4.000	3.910
333.00	3.882	3.876	3.962	3.987	4.000	3.976
334.00	4.000	3.889	3.863	3.900	4.000	3.889
335.00	4.000	3.836	3.906	4.000	3.975	4.000
336.00	3.905	3.974	3.892	3.958	3.952	3.986
337.00	3.950	3.946	3.870	3.950	3.923	4.000
338.00	3.937	3.973	3.948	4.000	3.946	4.000
339.00	3.818	3.999	3.863	3.956	3.984	3.908
340.00	3.941	3.800	3.875	3.898	3.970	3.913
341.00	3.937	4.000	3.929	3.909	3.987	3.986
342.00	3.903	3.909	3.858	3.903	3.974	3.944
343.00	4.000	3.928	3.730	3.912	3.988	3.877
344.00	4.000	3.735	3.851	3.908	3.919	3.908
345.00	4.000	3.761	3.853	3.980	3.777	3.934
346.00	3.904	3.791	3.945	3.991	3.975	3.927
347.00	3.828	3.890	3.789	3.959	3.976	3.838
348.00	3.898	3.938	3.935	3.992	3.956	3.949
349.00	3.993	3.854	3.872	3.921	4.000	3.993
350.00	3.879	3.774	3.825	3.810	3.824	3.944

Page 1 / 8

Spectrum Data Print Report

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Wavelength nm.	RawData ...	RawData ...	RawData ...	RawData ...	RawData ...	RawData ...
351.00	3.920	3.907	3.771	3.945	3.934	3.611
352.00	3.588	3.926	3.892	3.959	3.779	3.915
353.00	3.911	3.829	3.934	3.927	3.882	3.911
354.00	3.925	3.913	3.876	3.784	3.911	3.980
355.00	3.855	3.871	3.976	3.977	3.969	3.960
356.00	3.928	3.926	3.759	3.957	3.957	3.937
357.00	3.857	3.844	3.895	3.789	3.888	3.944
358.00	3.991	3.896	3.950	3.894	3.856	3.997
359.00	3.888	3.947	3.981	3.997	3.882	4.000
360.00	4.000	3.889	3.815	3.947	3.966	3.966
361.00	3.825	3.895	3.821	3.942	3.858	3.801
362.00	3.890	4.000	3.755	3.961	3.953	3.938
363.00	3.847	3.932	3.778	3.845	3.910	3.861
364.00	3.963	3.794	3.900	3.879	3.970	3.771
365.00	3.528	3.413	3.511	3.501	3.456	3.548
366.00	3.376	3.471	3.306	3.287	3.444	3.637
367.00	3.210	3.143	3.172	3.460	3.405	3.282
368.00	3.339	3.411	3.304	3.296	3.425	3.524
369.00	3.303	3.297	3.385	3.417	3.499	3.388
370.00	3.568	3.270	3.341	3.333	3.560	3.520
371.00	3.445	3.409	3.325	3.517	3.550	3.513
372.00	3.450	3.355	3.543	3.457	3.505	3.580
373.00	3.467	3.259	3.290	3.488	3.335	3.465
374.00	3.262	3.272	3.444	3.275	3.371	3.379
375.00	3.580	3.322	3.283	3.486	3.475	3.573
376.00	3.484	3.360	3.270	3.371	3.722	3.389
377.00	3.441	3.275	3.437	3.458	3.409	3.540
378.00	3.474	3.394	3.280	3.515	3.580	3.336
379.00	3.369	3.511	3.453	3.417	3.598	3.507
380.00	3.373	3.362	3.391	3.465	3.716	3.373
381.00	3.429	3.502	3.618	3.450	3.573	3.700
382.00	3.353	3.345	3.427	3.432	3.467	3.514
383.00	3.619	3.304	3.373	3.447	3.529	3.622
384.00	3.508	3.551	3.357	3.709	3.596	3.579
385.00	3.424	3.604	3.470	3.679	3.679	3.587
386.00	3.461	3.553	3.362	3.460	3.594	3.627
387.00	3.569	3.606	3.356	3.537	3.444	3.671
388.00	3.510	3.523	3.580	3.571	3.581	3.583
389.00	3.569	3.621	3.542	3.594	3.588	3.559
390.00	3.549	3.557	3.603	3.596	3.690	3.591
391.00	3.487	3.478	3.580	3.498	3.632	3.588
392.00	3.664	3.548	3.489	3.633	3.624	3.661
393.00	3.609	3.564	3.388	3.700	3.584	3.643
394.00	3.602	3.542	3.525	3.531	3.682	3.656
395.00	3.623	3.539	3.617	3.689	3.642	3.688
396.00	3.609	3.679	3.558	3.652	3.623	3.745
397.00	3.492	3.636	3.639	3.637	3.631	3.583
398.00	3.586	3.617	3.566	3.706	3.604	3.722
399.00	3.555	3.537	3.568	3.758	3.562	3.671
400.00	3.573	3.602	3.555	3.669	3.741	3.711
401.00	3.517	3.621	3.570	3.668	3.741	3.716

Spectrum Data Print Report

12/04/2020 01:06:08 AM

Wavelength nm.	RawData ...	RawData ...	RawData ...	RawData ...	RawData ...	RawData ...
402.00	3.641	3.590	3.537	3.626	3.690	3.642
403.00	3.587	3.593	3.519	3.699	3.597	3.591
404.00	3.605	3.479	3.499	3.706	3.667	3.649
405.00	3.607	3.560	3.611	3.589	3.722	3.754
406.00	3.570	3.564	3.615	3.717	3.690	3.584
407.00	3.552	3.696	3.619	3.642	3.758	3.648
408.00	3.575	3.617	3.596	3.755	3.667	3.709
409.00	3.643	3.606	3.526	3.709	3.666	3.784
410.00	3.708	3.634	3.577	3.685	3.685	3.746
411.00	3.616	3.580	3.611	3.661	3.747	3.720
412.00	3.680	3.613	3.582	3.685	3.767	3.678
413.00	3.620	3.523	3.644	3.724	3.694	3.762
414.00	3.679	3.618	3.611	3.656	3.701	3.757
415.00	3.691	3.652	3.733	3.643	3.615	3.718
416.00	3.672	3.645	3.580	3.649	3.667	3.604
417.00	3.627	3.598	3.592	3.713	3.788	3.617
418.00	3.726	3.623	3.572	3.656	3.704	3.656
419.00	3.606	3.602	3.653	3.639	3.798	3.727
420.00	3.610	3.650	3.772	3.658	3.772	3.747
421.00	3.716	3.647	3.673	3.742	3.689	3.688
422.00	3.699	3.609	3.701	3.730	3.799	3.648
423.00	3.615	3.651	3.584	3.708	3.684	3.780
424.00	3.602	3.685	3.564	3.691	3.663	3.684
425.00	3.672	3.689	3.640	3.729	3.797	3.685
426.00	3.815	3.700	3.630	3.737	3.791	3.772
427.00	3.641	3.716	3.602	3.686	3.754	3.750
428.00	3.649	3.578	3.662	3.795	3.810	3.812
429.00	3.665	3.678	3.717	3.681	3.780	3.761
430.00	3.670	3.623	3.630	3.774	3.793	3.745
431.00	3.693	3.650	3.614	3.654	3.705	3.725
432.00	3.686	3.662	3.670	3.763	3.706	3.764
433.00	3.780	3.647	3.673	3.782	3.819	3.820
434.00	3.725	3.681	3.691	3.859	3.766	3.760
435.00	3.681	3.676	3.679	3.735	3.744	3.761
436.00	3.656	3.749	3.706	3.797	3.778	3.669
437.00	3.736	3.633	3.735	3.717	3.785	3.864
438.00	3.776	3.660	3.679	3.765	3.855	3.824
439.00	3.756	3.696	3.689	3.816	3.835	3.765
440.00	3.822	3.730	3.748	3.894	3.812	3.755
441.00	3.807	3.703	3.734	3.832	3.739	3.851
442.00	3.743	3.737	3.759	3.823	3.910	3.845
443.00	3.788	3.816	3.739	3.878	3.846	3.824
444.00	3.780	3.780	3.872	3.901	3.925	3.818
445.00	3.864	3.852	3.844	3.918	3.942	3.865
446.00	3.863	3.879	3.832	3.866	3.847	3.788
447.00	3.870	3.921	3.892	3.894	3.908	3.915
448.00	3.943	3.874	3.855	3.940	3.942	3.855
449.00	3.889	3.933	3.833	3.936	3.956	3.944
450.00	3.940	3.810	3.844	3.944	3.990	3.904
451.00	3.898	3.872	3.915	3.964	3.979	3.952
452.00	3.977	3.906	3.899	3.933	3.938	3.945

Spectrum Data Print Report

12/04/2020 01:06:08 AM

Wavelength nm.	RawData ...	RawData ...	RawData ...	RawData ...	RawData ...	RawData ...
453.00	3.925	3.933	3.893	3.943	3.977	3.987
454.00	3.931	3.892	3.945	3.969	3.969	3.943
455.00	3.988	3.975	3.955	3.990	3.974	3.952
456.00	3.973	3.933	3.946	3.954	3.979	3.951
457.00	3.963	3.931	3.904	3.986	3.947	3.983
458.00	3.965	3.938	3.974	3.961	4.000	3.998
459.00	3.986	3.935	3.925	3.975	3.960	3.965
460.00	3.961	3.937	3.997	3.958	3.989	3.965
461.00	3.982	3.955	3.970	3.971	3.992	3.961
462.00	3.973	3.989	3.948	3.970	3.983	3.961
463.00	3.980	3.952	3.979	3.968	3.985	3.970
464.00	3.985	3.974	3.929	3.995	3.983	4.000
465.00	3.989	3.926	3.952	4.000	3.985	3.973
466.00	3.952	3.965	3.967	3.996	3.979	3.962
467.00	3.968	3.960	3.964	3.936	3.987	3.972
468.00	3.986	3.964	3.970	3.988	4.000	3.997
469.00	3.990	3.959	3.954	3.975	3.999	3.994
470.00	3.981	3.988	3.980	3.999	3.999	3.988
471.00	3.991	3.979	3.997	3.979	3.961	3.980
472.00	3.989	3.981	3.955	3.990	4.000	3.985
473.00	3.990	3.979	3.977	3.990	4.000	3.979
474.00	4.000	3.973	3.969	3.991	3.998	3.998
475.00	3.979	3.991	3.972	3.995	4.000	3.975
476.00	3.976	4.000	3.983	3.999	3.986	4.000
477.00	4.000	3.996	3.965	4.000	3.996	4.000
478.00	4.000	3.995	3.987	3.996	4.000	4.000
479.00	3.996	4.000	3.989	3.998	3.993	4.000
480.00	3.999	4.000	3.997	3.992	3.997	3.999
481.00	3.993	3.993	3.995	4.000	4.000	4.000
482.00	3.996	3.993	4.000	4.000	4.000	3.998
483.00	3.992	3.990	3.999	4.000	4.000	4.000
484.00	4.000	4.000	3.998	4.000	4.000	4.000
485.00	4.000	4.000	4.000	3.993	4.000	4.000
486.00	4.000	4.000	3.997	4.000	4.000	4.000
487.00	3.997	4.000	4.000	4.000	4.000	4.000
488.00	4.000	4.000	4.000	4.000	4.000	4.000
489.00	4.000	4.000	4.000	4.000	4.000	4.000
490.00	4.000	4.000	4.000	4.000	4.000	4.000
491.00	4.000	4.000	4.000	4.000	4.000	4.000
492.00	4.000	4.000	4.000	4.000	4.000	3.999
493.00	4.000	4.000	4.000	4.000	4.000	4.000
494.00	4.000	4.000	4.000	4.000	4.000	4.000
495.00	4.000	4.000	4.000	4.000	4.000	4.000
496.00	4.000	4.000	4.000	4.000	4.000	4.000
497.00	4.000	4.000	4.000	4.000	4.000	4.000
498.00	4.000	4.000	4.000	4.000	4.000	4.000
499.00	4.000	4.000	3.998	4.000	4.000	4.000
500.00	4.000	4.000	3.991	4.000	4.000	4.000
501.00	4.000	4.000	3.957	4.000	4.000	4.000
502.00	4.000	4.000	3.888	4.000	4.000	4.000
503.00	4.000	4.000	3.839	4.000	4.000	4.000

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Wavelength nm.	RawData ...	RawData ...	RawData ...	RawData ...	RawData ...	RawData ...
504.00	4.000	4.000	3.756	4.000	4.000	4.000
505.00	4.000	4.000	3.701	4.000	4.000	4.000
506.00	4.000	4.000	3.593	4.000	4.000	4.000
507.00	4.000	4.000	3.542	4.000	4.000	4.000
508.00	4.000	4.000	3.487	4.000	4.000	4.000
509.00	4.000	4.000	3.412	4.000	4.000	4.000
510.00	4.000	4.000	3.357	4.000	4.000	4.000
511.00	4.000	4.000	3.317	4.000	4.000	4.000
512.00	4.000	4.000	3.255	4.000	4.000	4.000
513.00	4.000	4.000	3.229	4.000	4.000	4.000
514.00	3.996	4.000	3.195	4.000	4.000	4.000
515.00	4.000	4.000	3.175	4.000	4.000	4.000
516.00	4.000	4.000	3.158	4.000	4.000	4.000
517.00	4.000	4.000	3.136	4.000	4.000	4.000
518.00	4.000	4.000	3.121	4.000	4.000	4.000
519.00	4.000	4.000	3.110	4.000	4.000	4.000
520.00	4.000	4.000	3.097	4.000	3.998	4.000
521.00	4.000	3.999	3.093	4.000	4.000	4.000
522.00	4.000	4.000	3.094	4.000	4.000	4.000
523.00	4.000	4.000	3.088	4.000	4.000	4.000
524.00	4.000	4.000	3.085	4.000	4.000	4.000
525.00	4.000	4.000	3.083	4.000	4.000	4.000
526.00	4.000	4.000	3.091	4.000	4.000	4.000
527.00	4.000	4.000	3.087	4.000	4.000	4.000
528.00	4.000	4.000	3.085	4.000	3.999	4.000
529.00	4.000	4.000	3.074	4.000	4.000	4.000
530.00	4.000	3.990	3.075	4.000	4.000	4.000
531.00	3.991	3.997	3.068	4.000	4.000	4.000
532.00	4.000	4.000	3.067	4.000	4.000	4.000
533.00	3.982	3.999	3.064	4.000	4.000	4.000
534.00	4.000	3.998	3.045	4.000	4.000	4.000
535.00	4.000	3.989	3.038	4.000	4.000	4.000
536.00	3.505	3.526	2.887	3.549	3.548	3.540
537.00	2.960	2.960	2.710	3.005	3.012	3.008
538.00	2.968	2.966	2.704	3.018	3.018	3.010
539.00	2.974	2.970	2.697	3.021	3.027	3.024
540.00	2.978	2.979	2.688	3.032	3.026	3.029
541.00	2.975	2.981	2.678	3.041	3.037	3.029
542.00	2.978	2.986	2.664	3.044	3.045	3.037
543.00	2.978	2.988	2.653	3.050	3.052	3.036
544.00	2.972	2.990	2.637	3.049	3.052	3.049
545.00	2.976	2.989	2.623	3.053	3.059	3.050
546.00	2.971	2.995	2.608	3.059	3.065	3.048
547.00	2.965	2.995	2.590	3.064	3.065	3.057
548.00	2.956	2.993	2.577	3.064	3.073	3.058
549.00	2.950	2.991	2.561	3.067	3.067	3.058
550.00	2.937	2.991	2.548	3.073	3.074	3.064
551.00	2.932	2.983	2.536	3.073	3.075	3.067
552.00	2.922	2.982	2.527	3.075	3.081	3.070
553.00	2.910	2.981	2.519	3.078	3.083	3.071
554.00	2.897	2.978	2.513	3.076	3.084	3.074

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Wavelength nm.	RawData ...	RawData ...	RawData ...	RawData ...	RawData ...	RawData ...
555.00	2.886	2.975	2.508	3.082	3.087	3.074
556.00	2.873	2.968	2.507	3.079	3.088	3.081
557.00	2.863	2.968	2.510	3.081	3.088	3.079
558.00	2.852	2.967	2.512	3.081	3.091	3.080
559.00	2.844	2.966	2.520	3.088	3.092	3.080
560.00	2.839	2.964	2.532	3.088	3.091	3.085
561.00	2.830	2.968	2.544	3.089	3.094	3.081
562.00	2.829	2.963	2.558	3.089	3.101	3.091
563.00	2.822	2.967	2.575	3.088	3.098	3.081
564.00	2.821	2.965	2.591	3.097	3.099	3.084
565.00	2.819	2.964	2.610	3.094	3.103	3.089
566.00	2.820	2.969	2.628	3.095	3.100	3.088
567.00	2.816	2.970	2.644	3.091	3.099	3.090
568.00	2.815	2.972	2.664	3.094	3.103	3.090
569.00	2.815	2.975	2.681	3.095	3.112	3.085
570.00	2.816	2.975	2.696	3.097	3.113	3.094
571.00	2.813	2.977	2.713	3.099	3.105	3.094
572.00	2.815	2.982	2.724	3.096	3.108	3.090
573.00	2.812	2.982	2.737	3.099	3.113	3.096
574.00	2.811	2.980	2.746	3.102	3.111	3.099
575.00	2.805	2.980	2.755	3.099	3.113	3.093
576.00	2.802	2.981	2.761	3.100	3.111	3.097
577.00	2.795	2.980	2.771	3.102	3.113	3.096
578.00	2.790	2.977	2.776	3.101	3.114	3.095
579.00	2.784	2.973	2.779	3.098	3.118	3.099
580.00	2.776	2.970	2.783	3.097	3.118	3.100
581.00	2.769	2.967	2.787	3.106	3.116	3.104
582.00	2.756	2.964	2.789	3.102	3.116	3.102
583.00	2.743	2.956	2.788	3.104	3.113	3.095
584.00	2.733	2.949	2.790	3.101	3.117	3.095
585.00	2.718	2.943	2.787	3.103	3.122	3.099
586.00	2.705	2.933	2.783	3.103	3.113	3.100
587.00	2.688	2.923	2.780	3.103	3.117	3.095
588.00	2.670	2.911	2.773	3.103	3.114	3.099
589.00	2.652	2.898	2.768	3.104	3.117	3.098
590.00	2.632	2.888	2.765	3.099	3.118	3.097
591.00	2.617	2.876	2.759	3.102	3.113	3.098
592.00	2.602	2.870	2.758	3.104	3.113	3.092
593.00	2.589	2.859	2.757	3.102	3.115	3.098
594.00	2.580	2.852	2.760	3.100	3.109	3.096
595.00	2.576	2.845	2.764	3.096	3.108	3.092
596.00	2.574	2.845	2.773	3.103	3.106	3.092
597.00	2.578	2.845	2.785	3.098	3.106	3.094
598.00	2.586	2.850	2.799	3.103	3.104	3.092
599.00	2.597	2.855	2.815	3.098	3.104	3.092
600.00	2.612	2.862	2.834	3.098	3.104	3.088
601.00	2.630	2.871	2.856	3.098	3.104	3.084
602.00	2.652	2.882	2.873	3.097	3.098	3.085
603.00	2.671	2.892	2.889	3.091	3.101	3.088
604.00	2.693	2.902	2.907	3.093	3.096	3.088
605.00	2.715	2.913	2.921	3.090	3.092	3.086

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Wavelength nm.	RawData ...	RawData ...	RawData ...	RawData ...	RawData ...	RawData ...
606.00	2.732	2.920	2.932	3.092	3.094	3.082
607.00	2.750	2.925	2.942	3.093	3.094	3.083
608.00	2.766	2.932	2.952	3.087	3.095	3.083
609.00	2.781	2.941	2.961	3.090	3.094	3.085
610.00	2.795	2.945	2.967	3.089	3.092	3.080
611.00	2.805	2.949	2.971	3.090	3.092	3.080
612.00	2.813	2.953	2.976	3.087	3.093	3.081
613.00	2.819	2.956	2.979	3.086	3.090	3.080
614.00	2.823	2.956	2.978	3.085	3.091	3.078
615.00	2.825	2.956	2.982	3.087	3.088	3.077
616.00	2.822	2.954	2.982	3.084	3.087	3.077
617.00	2.822	2.953	2.982	3.085	3.084	3.079
618.00	2.817	2.951	2.983	3.083	3.085	3.074
619.00	2.814	2.948	2.981	3.082	3.086	3.075
620.00	2.806	2.945	2.979	3.080	3.082	3.074
621.00	2.796	2.941	2.973	3.082	3.083	3.072
622.00	2.789	2.937	2.974	3.080	3.081	3.077
623.00	2.778	2.933	2.972	3.080	3.078	3.071
624.00	2.766	2.928	2.967	3.077	3.077	3.073
625.00	2.754	2.919	2.967	3.079	3.080	3.070
626.00	2.741	2.912	2.963	3.074	3.073	3.069
627.00	2.730	2.905	2.956	3.075	3.075	3.067
628.00	2.718	2.897	2.954	3.073	3.069	3.068
629.00	2.711	2.891	2.953	3.073	3.070	3.064
630.00	2.706	2.889	2.950	3.071	3.068	3.065
631.00	2.704	2.886	2.950	3.069	3.063	3.061
632.00	2.707	2.885	2.948	3.066	3.063	3.055
633.00	2.715	2.887	2.949	3.063	3.058	3.052
634.00	2.727	2.888	2.952	3.055	3.050	3.051
635.00	2.748	2.895	2.953	3.050	3.048	3.042
636.00	2.779	2.914	2.968	3.064	3.060	3.054
637.00	2.816	2.942	2.988	3.075	3.075	3.069
638.00	2.859	2.966	3.009	3.097	3.093	3.081
639.00	2.900	2.994	3.032	3.110	3.111	3.100
640.00	2.946	3.023	3.056	3.126	3.132	3.120
641.00	2.991	3.052	3.082	3.148	3.155	3.142
642.00	3.035	3.082	3.107	3.176	3.179	3.167
643.00	3.078	3.111	3.131	3.200	3.204	3.192
644.00	3.114	3.136	3.153	3.219	3.225	3.212
645.00	3.141	3.157	3.169	3.237	3.244	3.231
646.00	3.164	3.173	3.182	3.254	3.260	3.244
647.00	3.179	3.184	3.194	3.261	3.270	3.254
648.00	3.189	3.187	3.196	3.268	3.276	3.262
649.00	3.189	3.188	3.194	3.266	3.273	3.260
650.00	3.184	3.179	3.189	3.260	3.265	3.254
651.00	3.178	3.172	3.179	3.252	3.258	3.245
652.00	3.165	3.160	3.169	3.240	3.247	3.234
653.00	3.154	3.146	3.157	3.228	3.233	3.221
654.00	3.141	3.133	3.143	3.216	3.219	3.208
655.00	3.123	3.118	3.128	3.200	3.204	3.191
656.00	3.111	3.102	3.111	3.186	3.186	3.175

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Wavelength nm.	RawData ...	RawData ...	RawData ...	RawData ...	RawData ...	RawData ...
657.00	3.097	3.087	3.100	3.171	3.173	3.163
658.00	3.080	3.076	3.083	3.157	3.158	3.146
659.00	3.067	3.060	3.071	3.143	3.146	3.134
660.00	3.057	3.048	3.057	3.130	3.135	3.124
661.00	3.042	3.035	3.046	3.119	3.118	3.109
662.00	3.031	3.022	3.035	3.106	3.110	3.100
663.00	3.018	3.011	3.023	3.095	3.098	3.089
664.00	3.009	2.997	3.010	3.086	3.086	3.076
665.00	2.998	2.989	3.002	3.076	3.074	3.067
666.00	2.986	2.977	2.992	3.064	3.065	3.056
667.00	2.975	2.968	2.982	3.054	3.054	3.048
668.00	2.965	2.956	2.971	3.046	3.046	3.039
669.00	2.954	2.946	2.960	3.037	3.037	3.029
670.00	2.947	2.937	2.952	3.028	3.027	3.020
671.00	2.934	2.926	2.939	3.018	3.018	3.014
672.00	2.924	2.915	2.931	3.011	3.008	3.003
673.00	2.908	2.902	2.921	3.002	2.998	2.993
674.00	2.890	2.885	2.905	2.991	2.985	2.982
675.00	2.865	2.865	2.889	2.980	2.970	2.969
676.00	2.828	2.835	2.869	2.967	2.951	2.957
677.00	2.771	2.790	2.839	2.954	2.922	2.940
678.00	2.682	2.719	2.792	2.932	2.881	2.913
679.00	2.554	2.616	2.726	2.905	2.813	2.882
680.00	2.375	2.460	2.618	2.858	2.707	2.825
681.00	2.157	2.255	2.457	2.784	2.551	2.735
682.00	1.914	2.017	2.244	2.667	2.345	2.595
683.00	1.677	1.774	2.001	2.492	2.112	2.399
684.00	1.461	1.546	1.757	2.275	1.883	2.172
685.00	1.289	1.342	1.527	2.039	1.669	1.937
686.00	1.103	1.163	1.325	1.809	1.478	1.714
687.00	0.960	1.009	1.148	1.598	1.311	1.512
688.00	0.837	0.875	0.992	1.407	1.164	1.332
689.00	0.731	0.759	0.857	1.239	1.037	1.174
690.00	0.642	0.662	0.745	1.094	0.927	1.039
691.00	0.568	0.582	0.651	0.973	0.836	0.925
692.00	0.505	0.513	0.572	0.869	0.758	0.828
693.00	0.453	0.457	0.507	0.782	0.692	0.746
694.00	0.409	0.409	0.452	0.708	0.635	0.677
695.00	0.372	0.368	0.405	0.645	0.587	0.618
696.00	0.340	0.333	0.365	0.592	0.546	0.568
697.00	0.312	0.303	0.331	0.544	0.508	0.523
698.00	0.289	0.277	0.303	0.504	0.477	0.486
699.00	0.269	0.256	0.279	0.471	0.450	0.454
700.00	0.254	0.239	0.260	0.443	0.428	0.428