

DAFTAR PUSTAKA

- Ahmad, F., Handayani, I. D., & Nurweni, S. (2019). Analisis tingkat kebisingan terhadap aktivitas belajar mengajar di Fakultas Teknik Universitas Semarang. *Jurnal pengembangan rekayasa dan teknologi*, 1(2), 43-46.
- Aliyah, Q. R., & Cahyadi, B. (2022). Pemetaan Tingkat Kebisingan Pada Bengkel Pipa Dan Mess Karyawan I Dengan Metode Peta Kontur. *Prosiding Semnastek*.
- Anggraini, D. R., Fitriyaningsih, Y., & Akbar, A. A. (2021). Analisis Tingkat Kebisingan dan Persebarannya Menggunakan Metode Noise Mapping Pada PLTD Siantan, Kalimantan Barat. *JURLIS: Jurnal Rekayasa Lingkungan Tropis Teknik Lingkungan Universitas Tanjungpura*, 2(2), 11-20.
- Ariyadi, D. H., Rahmiyati, I., Kusumaningrum, K. D., & Kurniawati, W. (2024). Analisis Pemahaman Materi Bunyi dan Cahaya di Sekolah Dasar. *Madani: Jurnal Ilmiah Multidisiplin*, 1(12).
- Chang, S. S., & Bjørner, T. B. (2019). *School noise and student health: Is school noise exposure during rest and mental activity associated with student stress and health symptoms? International Journal of Hygiene and Environmental Health*, 222(3), 442-448.
- Dzulkiflih, D., & Khayat, M. Y. N. (2023). Analisis Tingkat Kebisingan Kendaraan Di Lampu Lalu Lintas Pada Simpang Tiga Jalan Raya Prambon Sidoarjo Menggunakan Sound Level Meter Berbasis Arduino Uno. *Inovasi Fisika Indonesia*, 12(1), 30-41.
- Ergantara, R. I. (2022). PEMETAAN TINGKAT KEBISINGAN DI SD NEGERI 1 BERINGIN RAYA KEMILING BANDAR LAMPUNG. *Jurnal Sains & Teknologi Lingkungan*, 14(2), 147-156.
- Fitria, A. N., Susilowati, W., & Saputra, J. (2022). KAJIAN PENGARUH KEBISINGAN PROYEK KONSTRUKSI TERHADAP KENYAMANAN WARGA PERMUKIMAN SEKITAR. *Jurnal Poli-Teknologi*, 21(2), 46-59.
- Garcia, R., & Martinez, L. (2019). "Assessment of Noise Levels in Urban Schools: A Case Study in [Nama Kota]." *International Journal of Environmental Research and Public Health*, 15(7), 1425.
- Gunara, M. (2019). Bahaya kebisingan di lingkungan kerja pada industri penarikan kawat dan metode pengendaliannya. *Jurnal Rekayasa Teknologi*, 2(2), 31-40.
- Hardiani, D. P., Ruhaidani, E., & Anggarini, E. (2022). Analisis tingkat kebisingan a kawasan Sekolah Dasar Negeri Pasar Lama 1 Kota ijarmasin. *AGREGAT*, 7(1), 636-641.
-), H. W., Widiyaningtyas, T., & Indriana, P. (2019). Penerapan Algoritme ear Regression untuk Prediksi Hasil Panen Tanaman Padi. *Jurnal Nasional nik Elektro Dan Teknologi Informasi (JNTETI)*, 8(4), 364.



- Hustim, M., & Fujimoto, K. (2012). *Road traffic noise under heterogeneous traffic condition in Makassar city, Indonesia. Journal of Habitat Engineering and Design*, 4(1), 109-118.
- Kusuma, M. N., & Fadhilah, D. R. (2022). Kajian Tingkat Kebisingan di Kawasan Rumah Sakit RSUD Sidoarjo di Masa Pandemi: Noise Level in Hospital RSUD Sidoarjo Areas in Pandemic Era. *Jurnal Teknologi Lingkungan*, 23(2), 250-255.
- Kusumawati, N., & Maruti, E. S. (2019). Strategi belajar mengajar di sekolah dasar. CV. Ae media grafika.
- LEONARDO, C., SURAI, S., & TANUDJAYA, H. (2021). Analisis kalibrasi pengukuran dan ketidakpastian sound level meter. *Jurnal Teknik Industri*, 8(1).
- Lercher, P., & Widmann, U. (2021). *Environmental noise and health effects in children: From neurophysiological pathways to public health implications. International Journal of Environmental Research and Public Health*, 18(9), 4580.
- Mahmud, A. K., Adisasmitha, S. A., & Hustim, M. (2017). Prediksi Kebisingan Lalu Lintas di Kota Makassar Menggunakan Model ASJ-RTN 2008. *Jurnal Transportasi*, 17(3).
- Nasution, M. (2019). Ambang batas kebisingan lingkungan kerja agar tetap sehat dan semangat dalam bekerja. *Buletin Utama Teknik*, 15(1), 87-90.
- Nugroho, P. C., & Haj, M. I. (2019, November). Sound Level Meter Berbasis Arduino dengan Sensor Bunyi dan Sensor Ultrasonic Untuk Menentukan Hubungan Jarak dengan Intensitas Bunyi. In *Seminar Nasional Pendidikan (Sendika) Vol (Vol. 3, pp. 117-124)*.
- Nurasrin, N. R. (2017). Analisis tingkat kebisingan pada kawasan sekolah dasar di Makassar. *Jurnal Purifikasi*, 17(2), 59-66.
- Nurfirdaus, N., & Sutisna, A. (2021). Lingkungan Sekolah dalam Membentuk Perilaku Sosial Siswa. *Naturalistic: Jurnal Kajian dan Penelitian Pendidikan dan Pembelajaran*, 5(2b), 895-902.
- Oktorina, S., Aprilia, B. S., & Anjarsari, I. (2021). Analisis Intensitas Kebisingan Lingkungan Kerja pada Pembangunan Twin Tower UINSunan Ampel Surabaya. *AL-ARD: Jurnal Teknik Lingkungan*, 2(2), 62-67.
- Prasetyo, V. R., Lazuardi, H., Mulyono, A. A., & Lauw, C. (2021). Penerapan Aplikasi Rapid Miner Untuk Prediksi Nilai Tukar Rupiah Terhadap US Dollar Dengan Metode Regresi Linier. *Jurnal Nasional Teknologi Dan Sistem Informasi*, 7(1), 8-17.
- Rahmawati, D. (2019). Pemetaan Tingkat Kebisingan Di Pemukiman Sekitar Rel Kereta Api Kecamatan Gondokusuman.

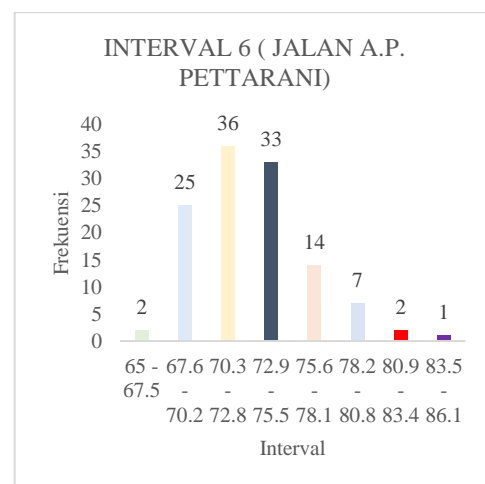
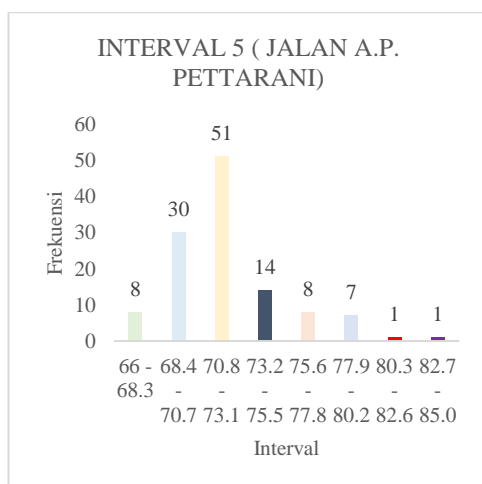
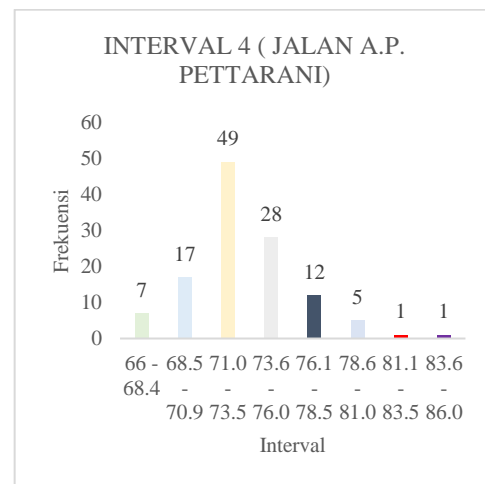
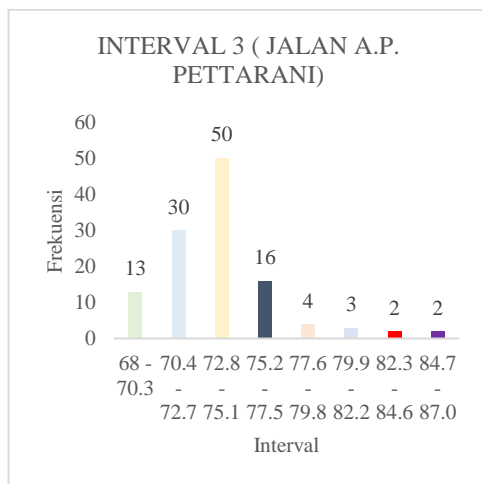
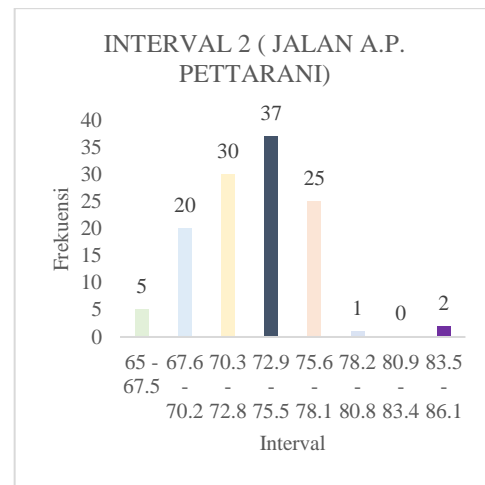
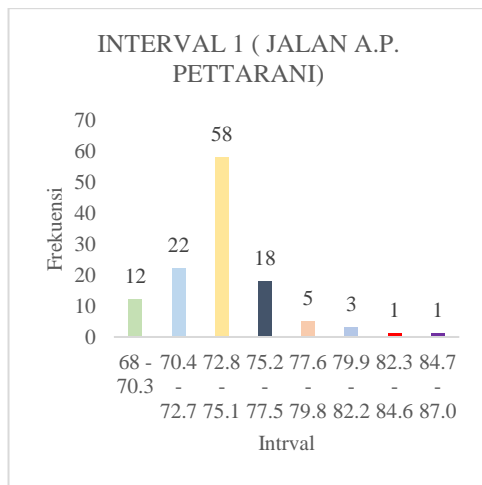


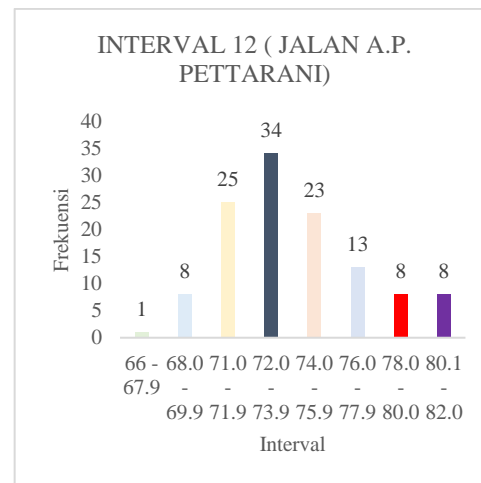
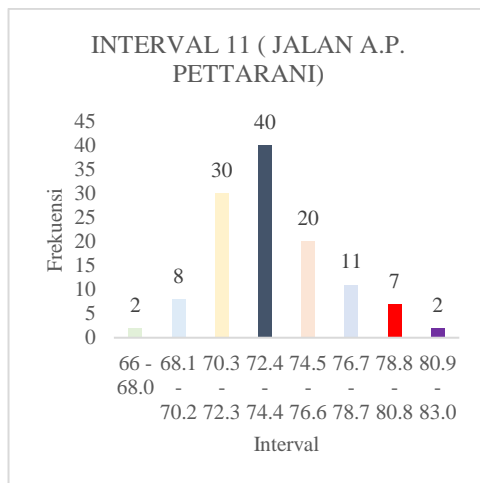
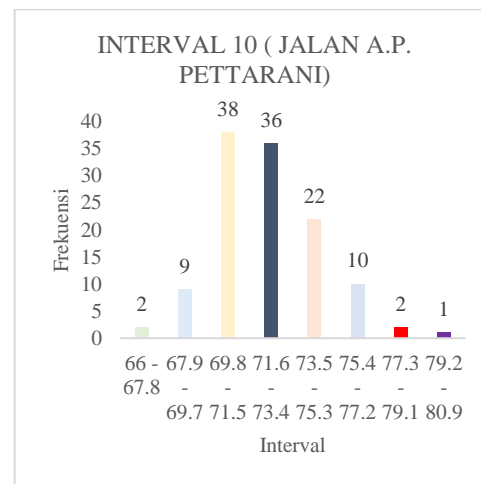
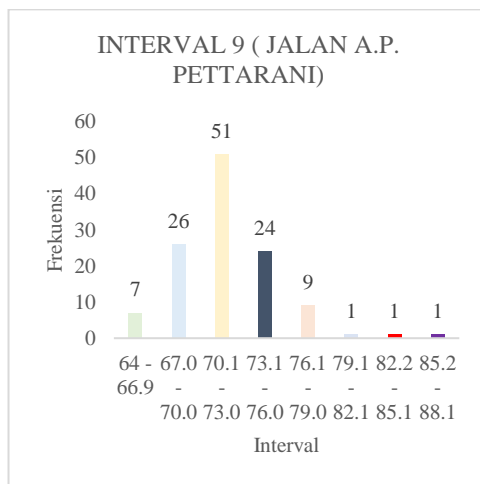
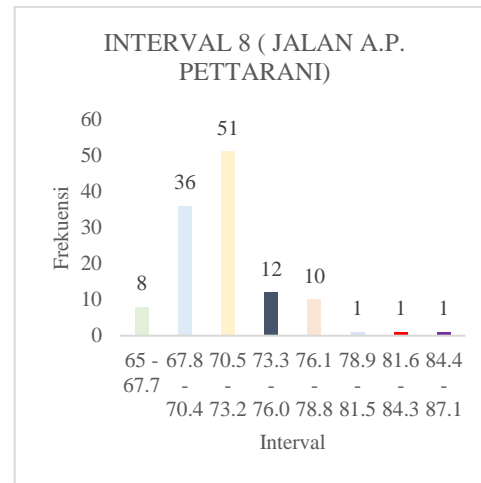
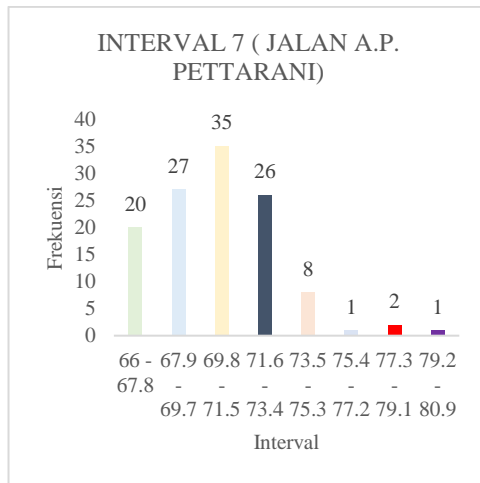
- Sasmita, A., Reza, M., & Rozi, R. M. (2021). Pemetaan dan Perhitungan Pemaparan Tingkat Kebisingan pada Industri Pengolahan Kayu di Kecamatan Siak, Provinsi Riau. *Al-Ard J. Tek. Lingkungan. Maret*, 6(2), 68-79.
- Syahputra, A. F., Nurhasanah, N., & Zulfian, Z. (2022). Analisis Tingkat Kebisingan Pada Area Pembangkit Listrik Tenaga Diesel (PLTD) Wilayah Kabupaten Kubu Raya. *PRISMA FISIKA*, 10(2), 155-161.
- Utami, N. T., Nirmala, A., & Meilasari, F. (2020). Kajian Dampak Kebisingan Akibat Aktivitas Pertambangan Granodiorit Pada Pt Gilgal Batu Alam Lestari Kabupaten Mempawah Kalimantan Barat. *JeLAST: Jurnal PWK, Laut, Sipil, Tambang*, 7(1).
- Utami, R. I., Anggraini, F. W., Ningsi, S. W., Hanif, D. A., & Kurniawati, W. (2024). Pendalaman Materi Bunyi dan Cahaya: Studi Kasus Penerapan Bunyi dan Cahaya Dalam Kehidupan Sehari-hari. *Konstanta: Jurnal Matematika dan Ilmu Pengetahuan Alam*, 2(1), 284-295.
- Warisanti, I., Rondonuwu, S. G., & Legrans, R. R. (2024). Analisis Pengaruh Kebisingan Akibat Aktifitas Pesawat Pada Bandar Udara Sam Ratulangi Manado Terhadap Konsentrasi Belajar Siswa Di Sekolah. *TEKNO*, 22(87), 455-461.
- Widodo, S., Manaf, M., & Kastono, K. (2021). Kajian Tingkat Kebisingan di Kawasan Pendidikan SMP Negeri 5 Kota Sorong. *Dewantara Journal of Technology*, 2(2), 1-7.
- Yasid, A., & Yushardi, Y. (2017). Pengaruh Frekuensi Gelombang Bunyi Terhadap Perilaku Lalat Rumah (*Musca Domestica*). *Jurnal Pembelajaran Fisika*, 5(2), 190-196.

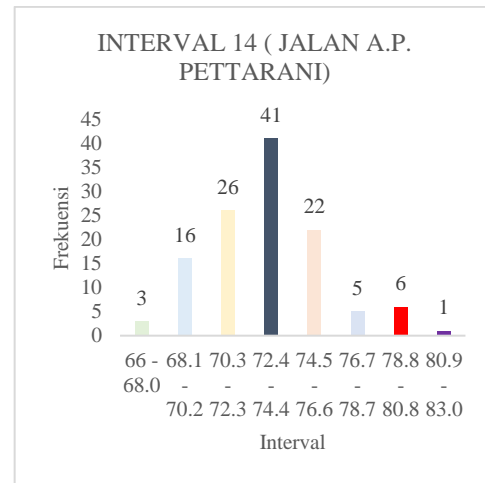
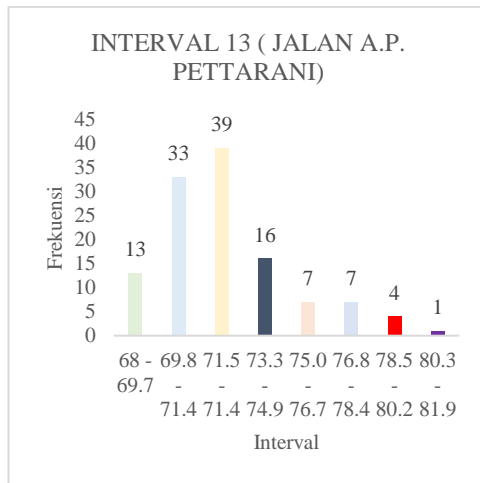


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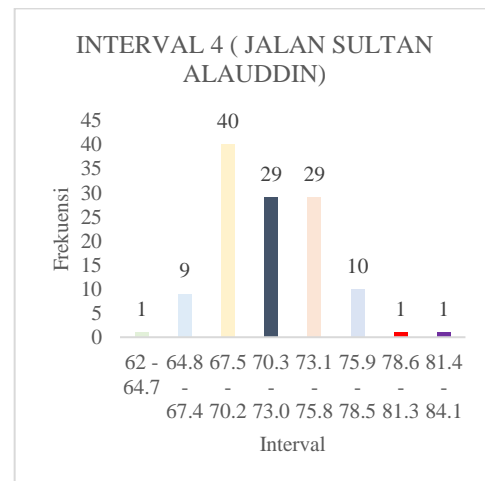
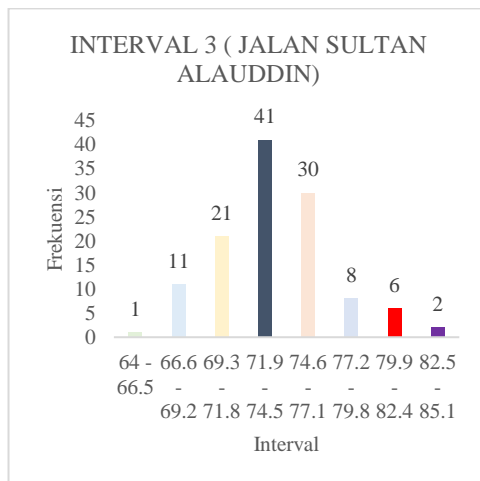
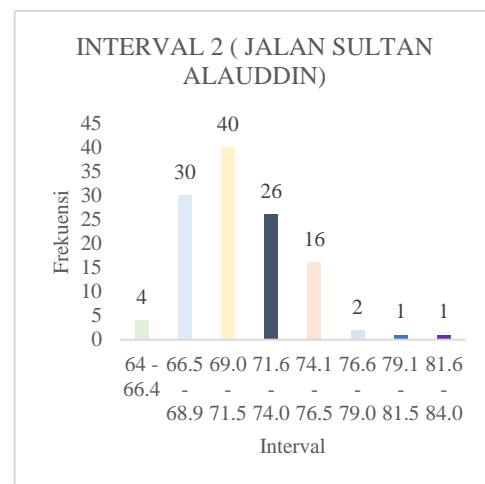
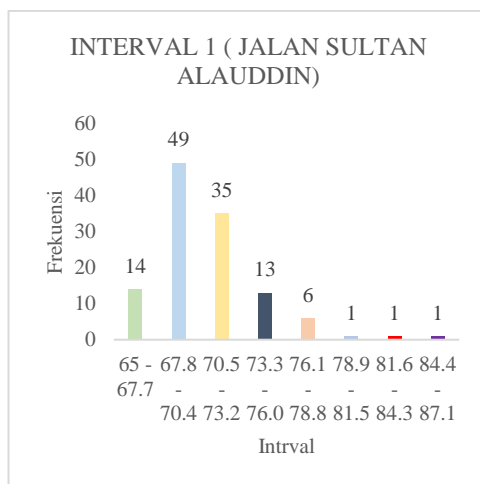
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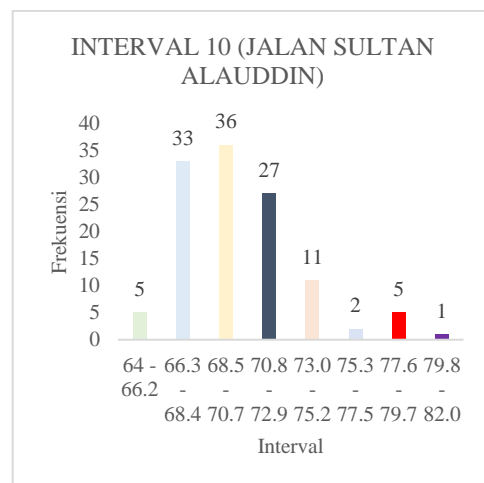
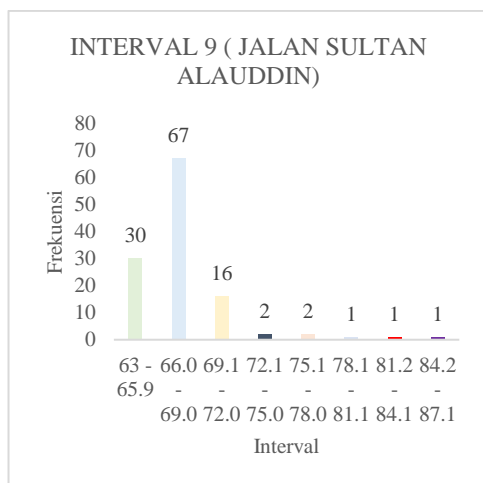
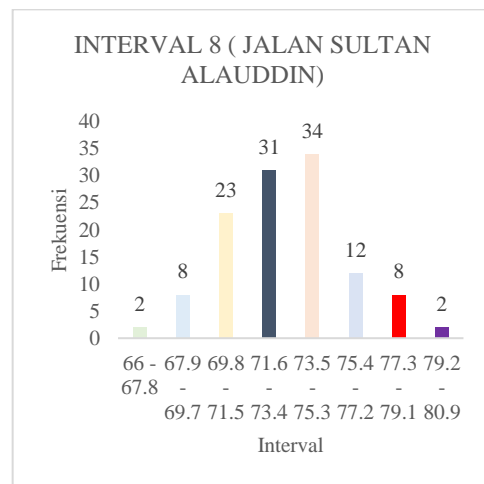
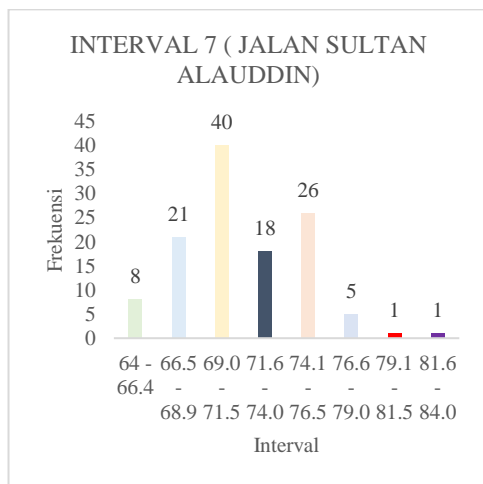
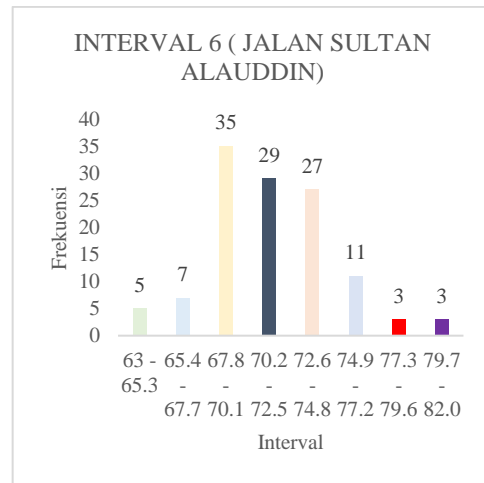
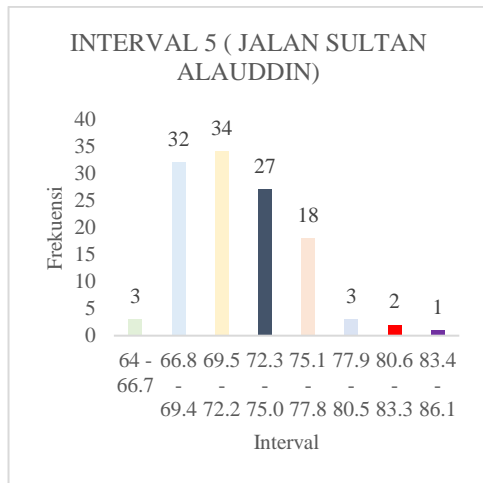


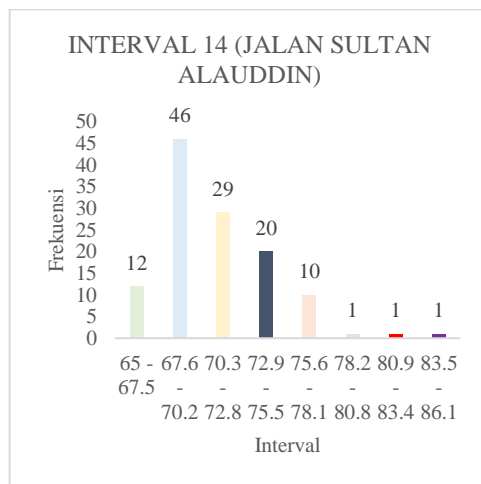
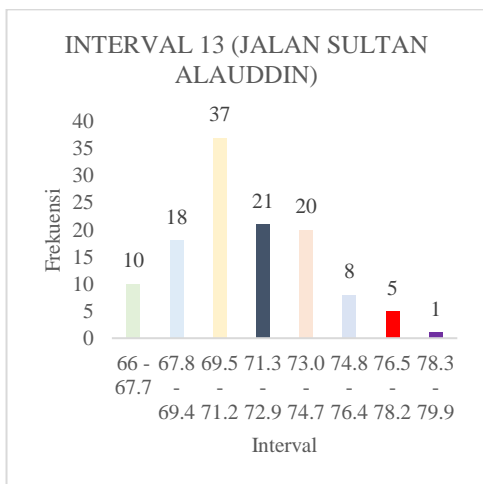
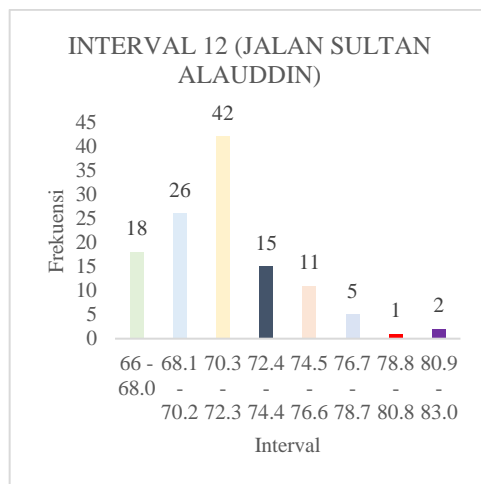
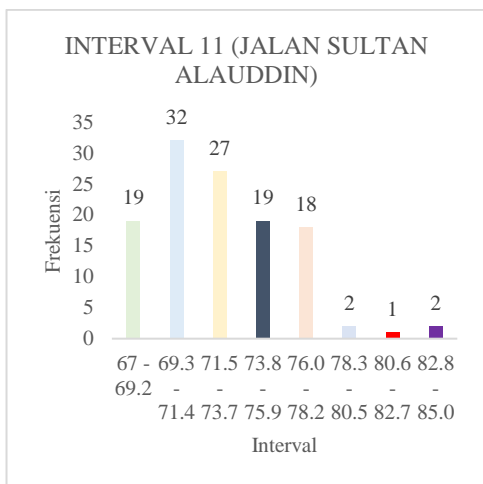




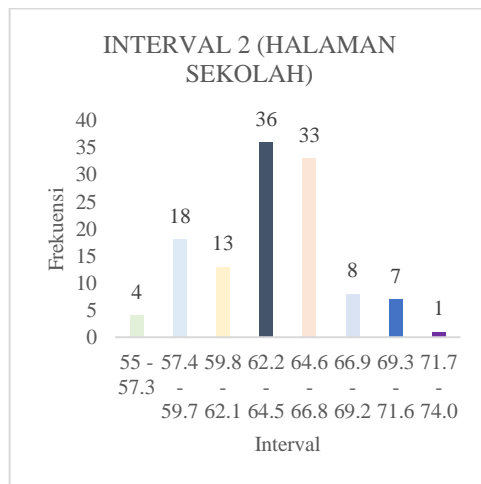
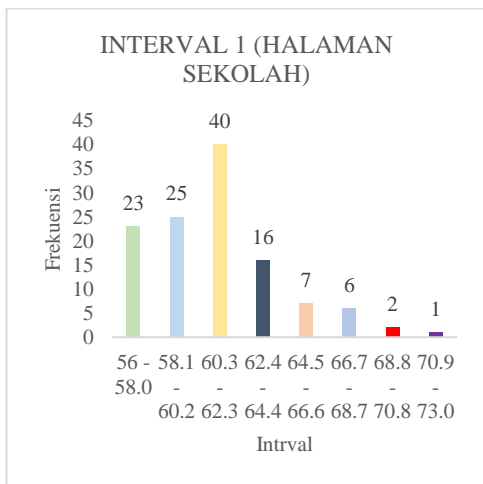
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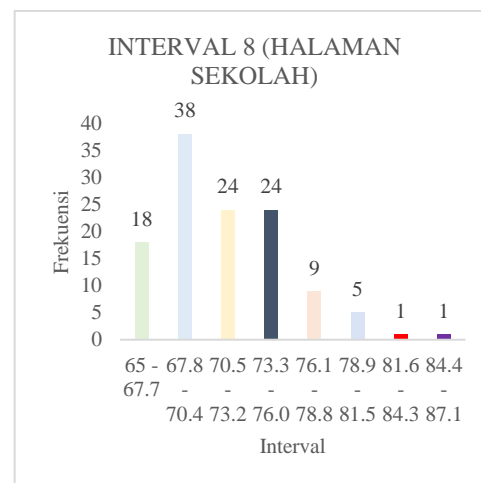
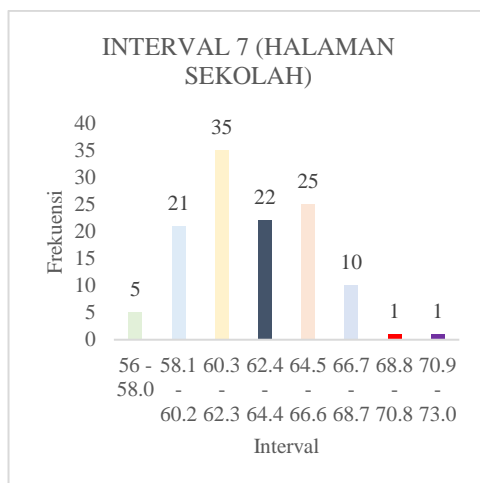
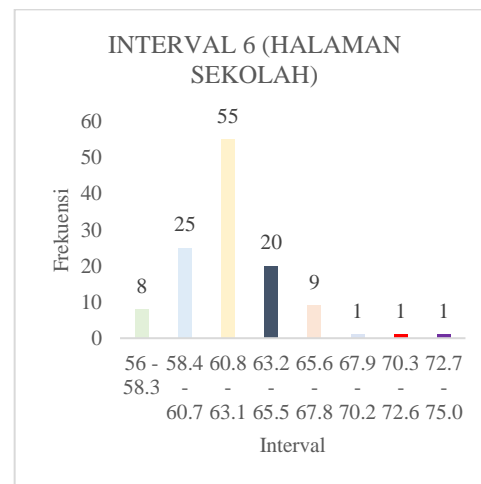
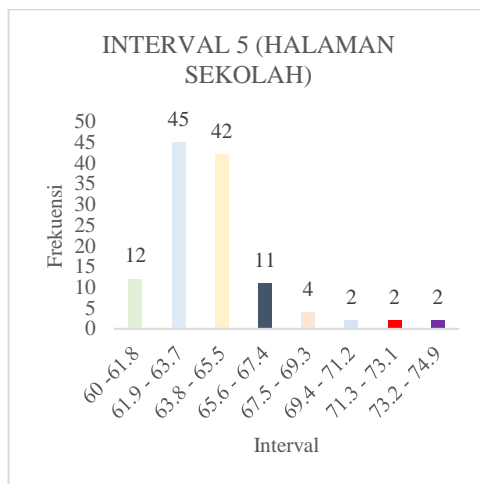
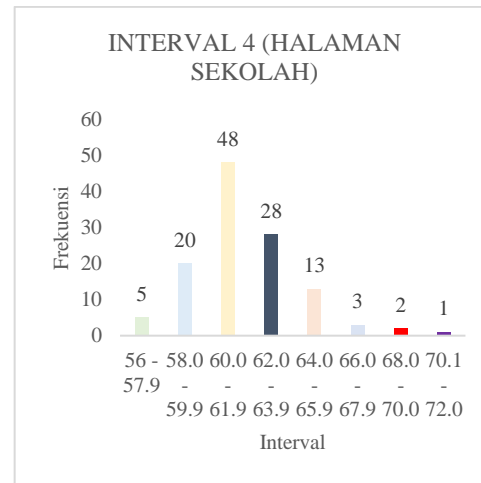
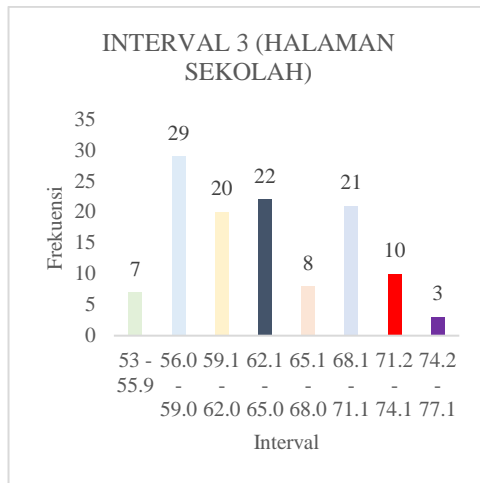




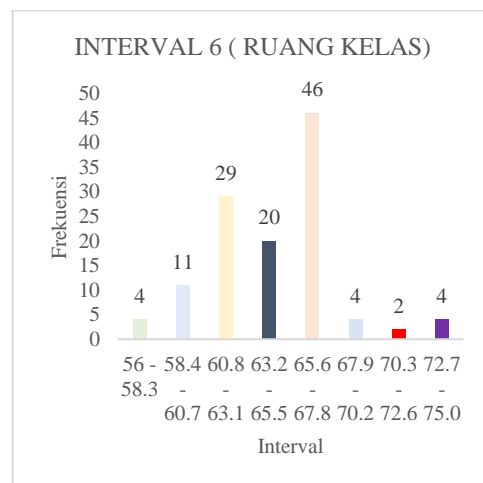
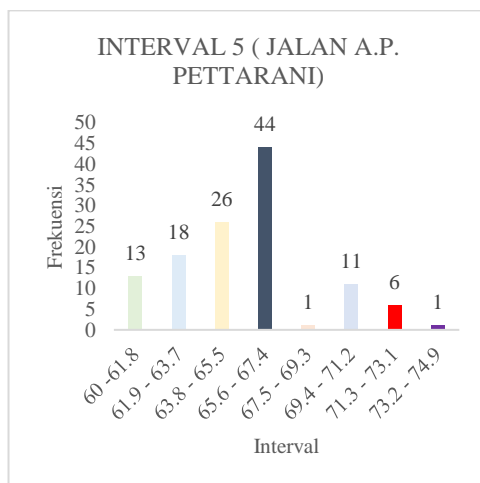
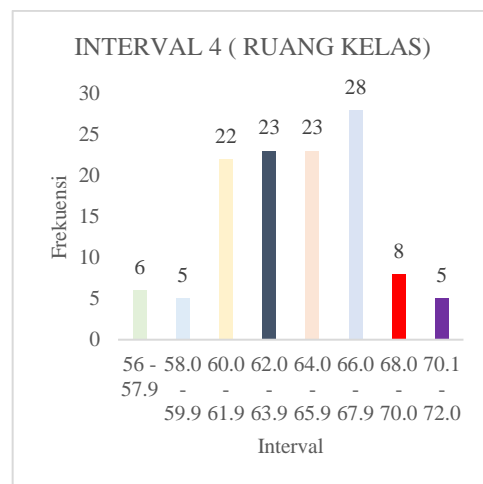
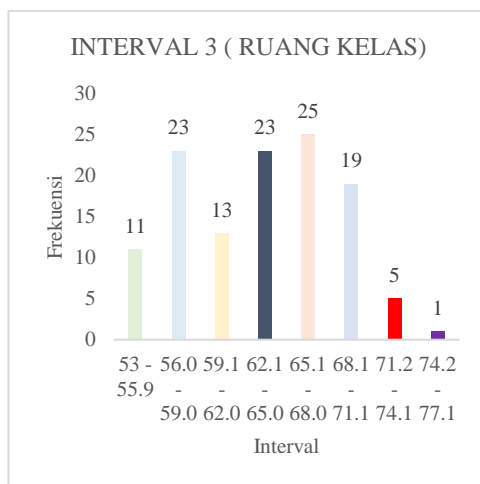
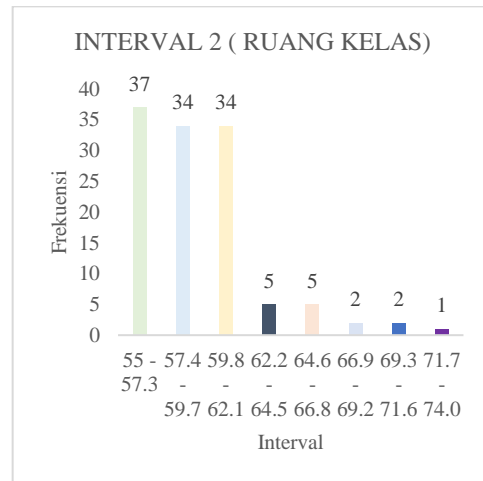
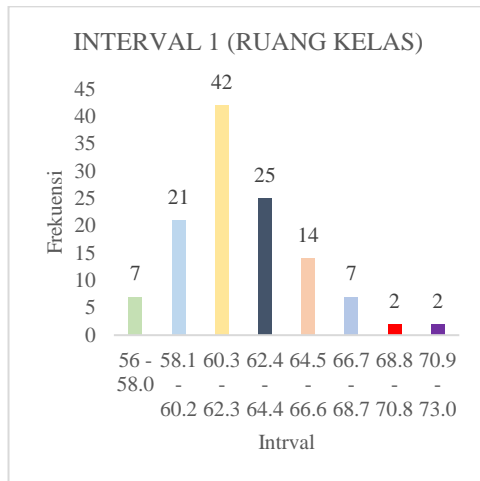


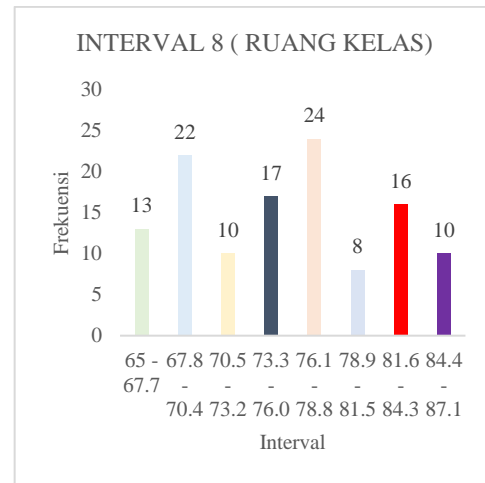
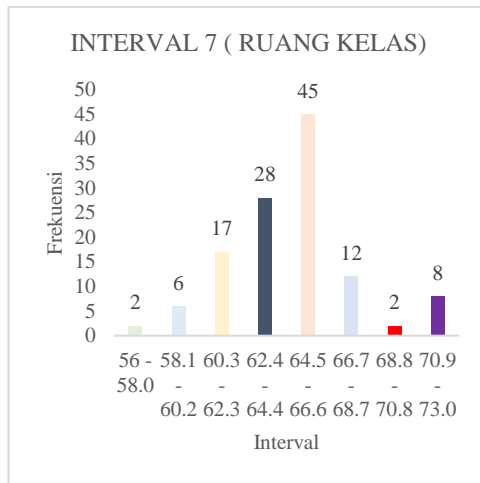
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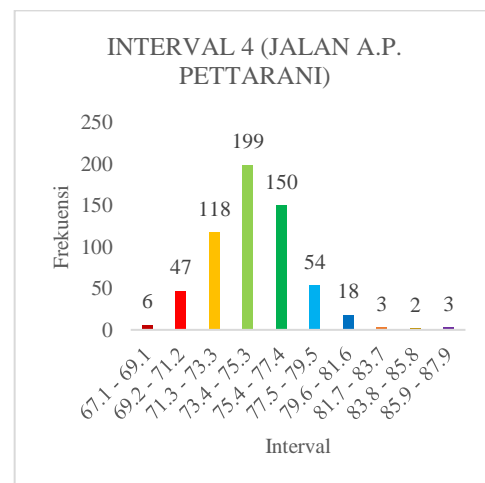
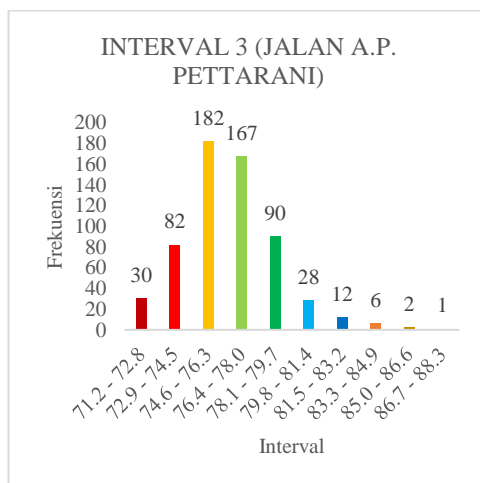
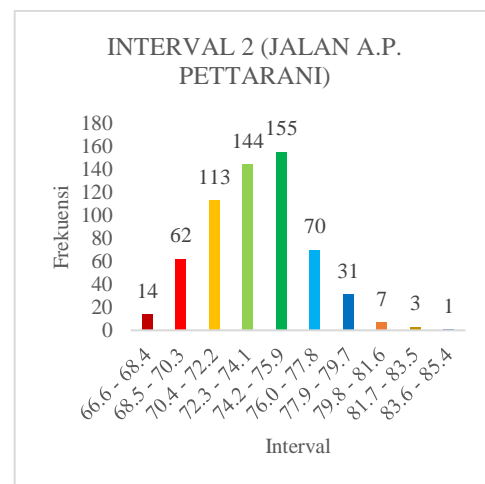
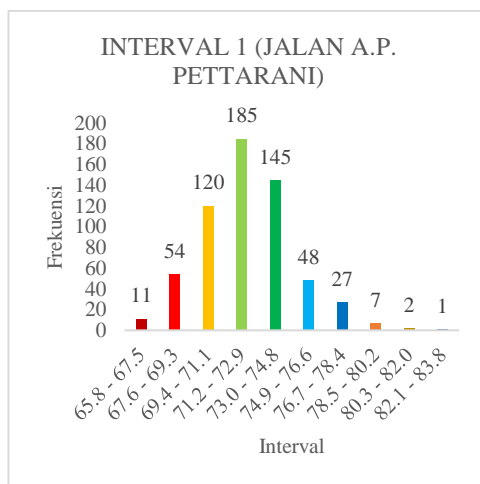


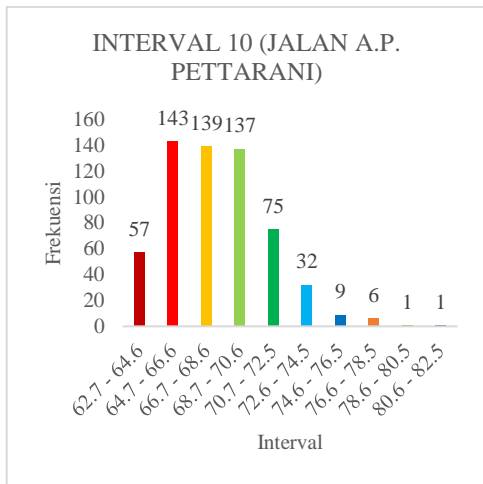
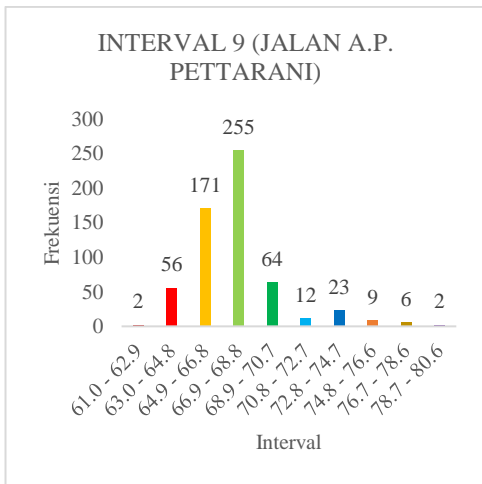
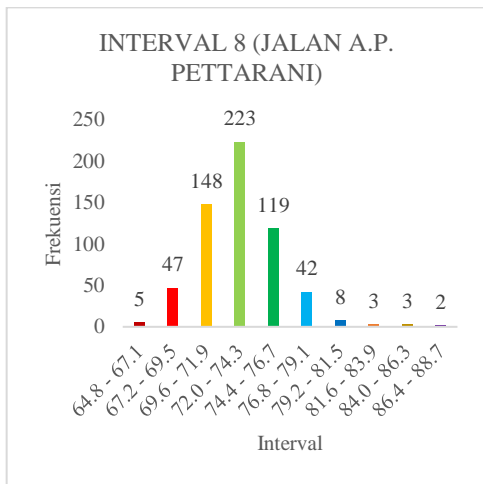
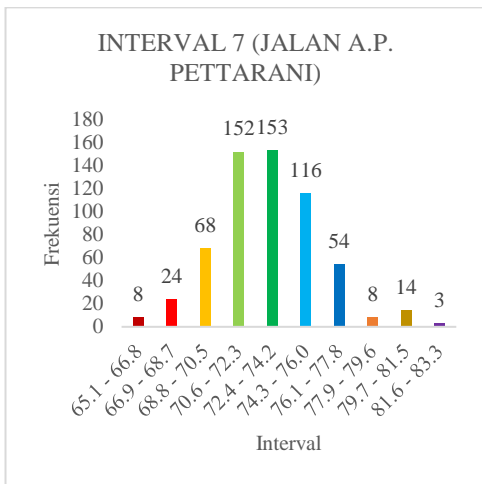
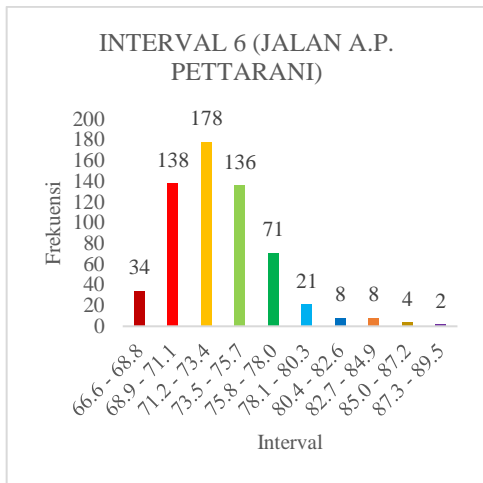
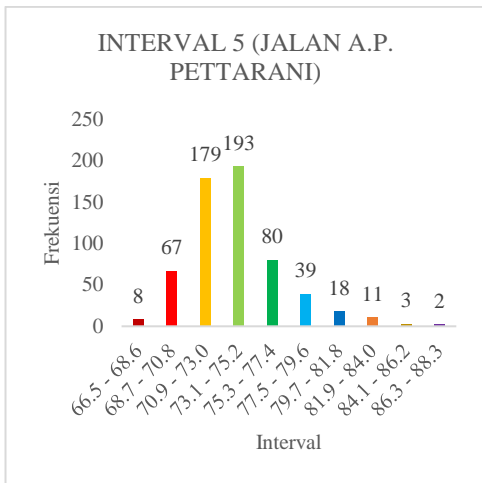
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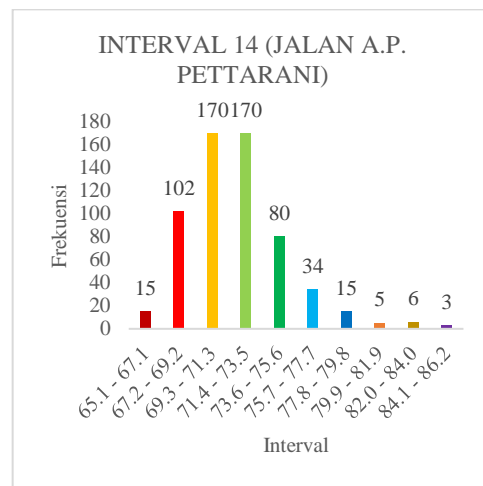
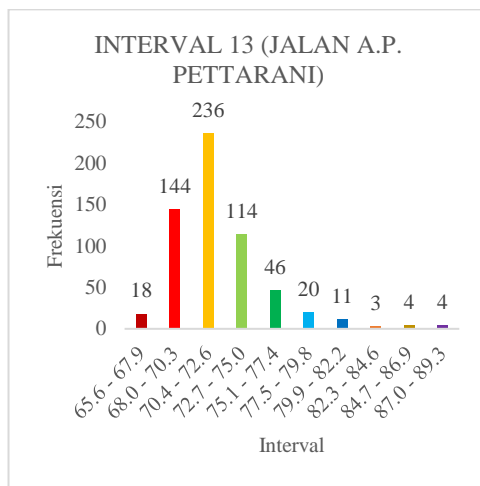
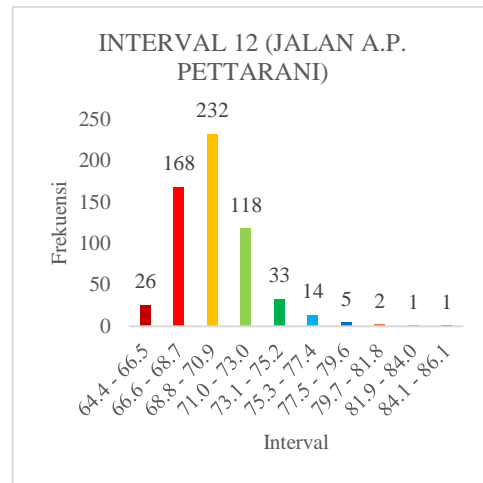
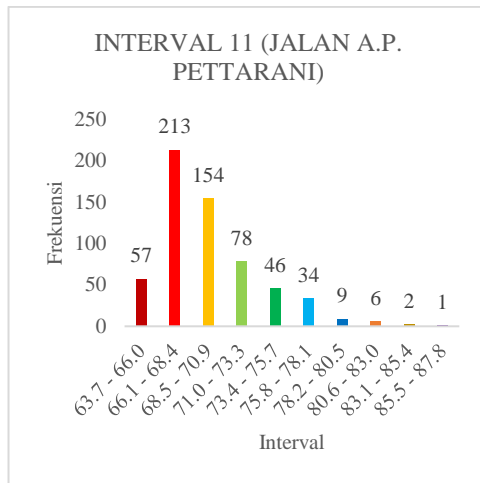




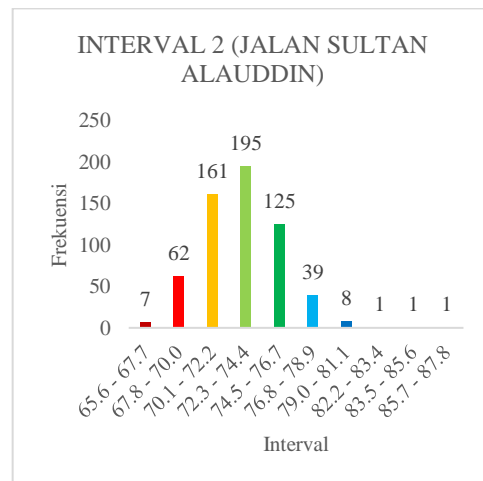
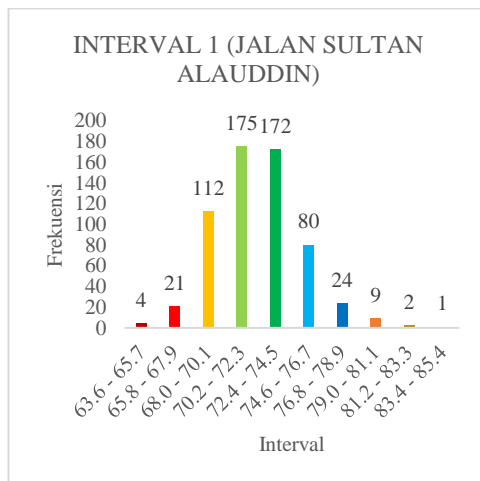
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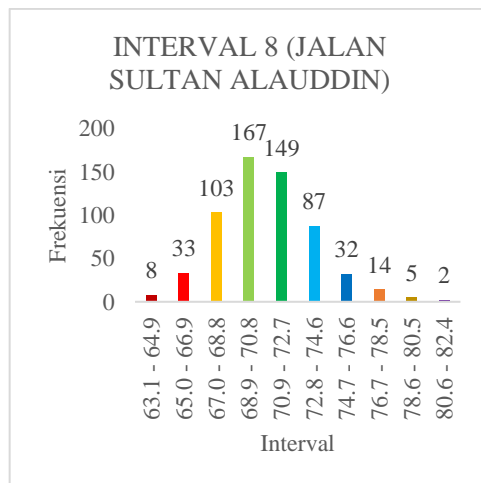
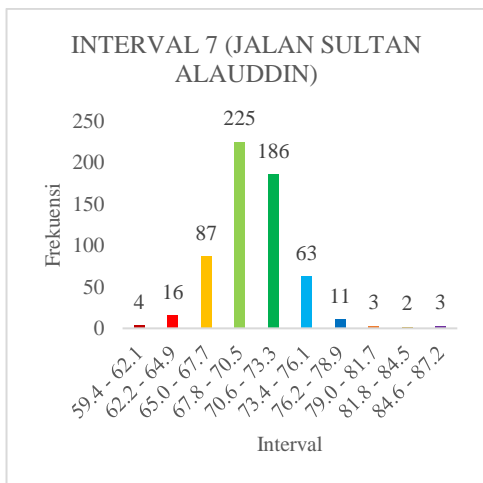
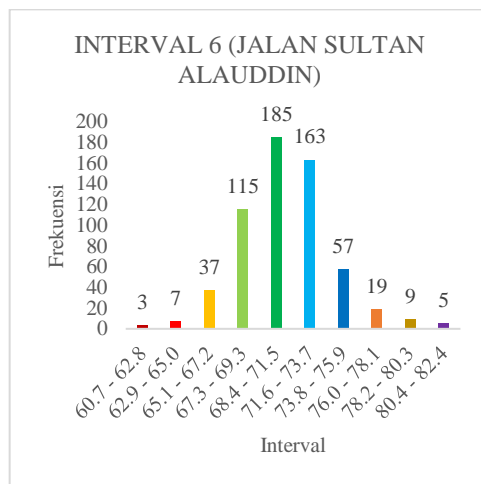
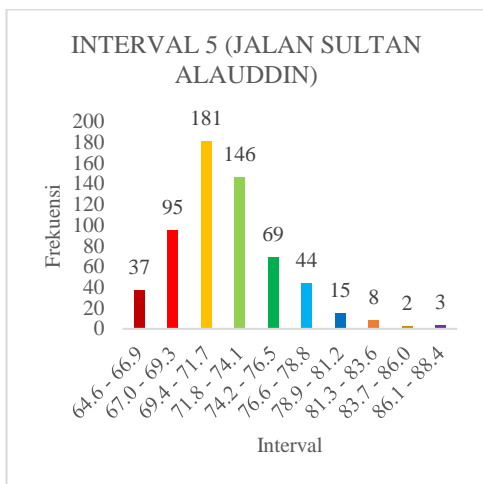
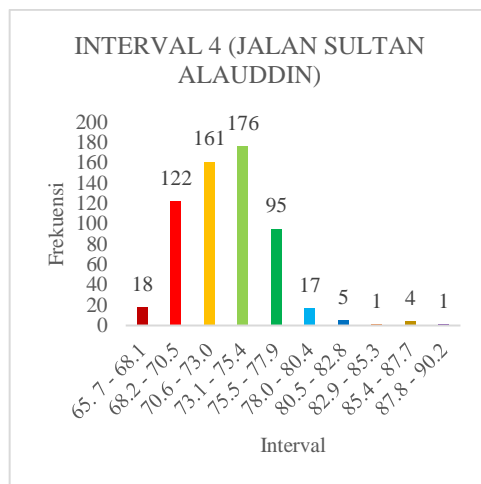
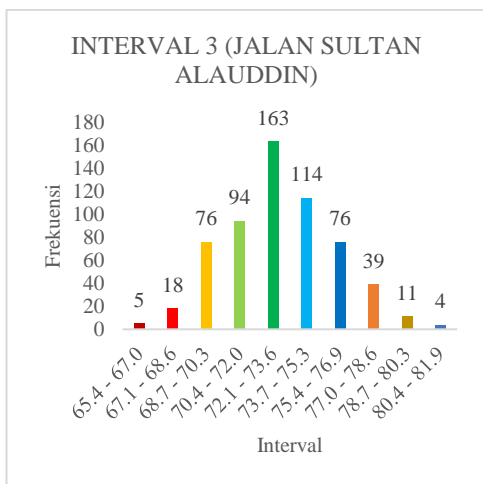


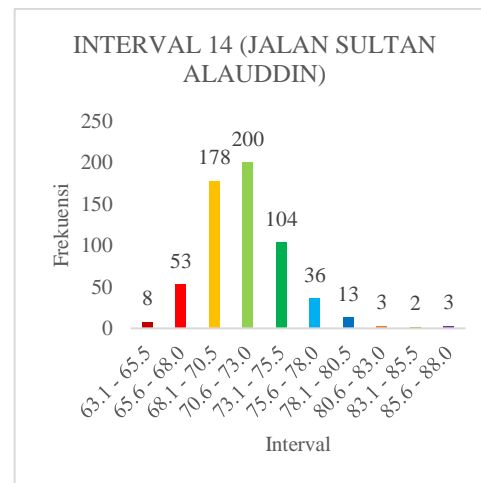
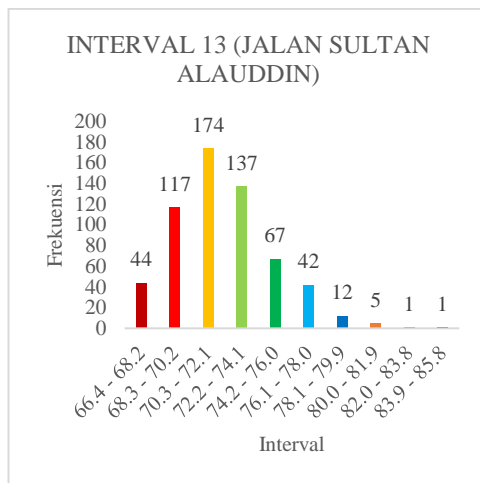
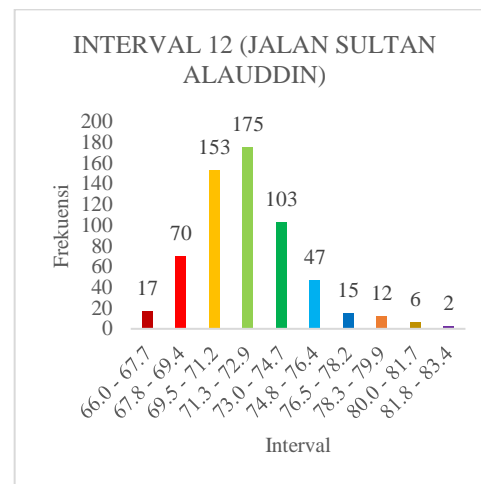
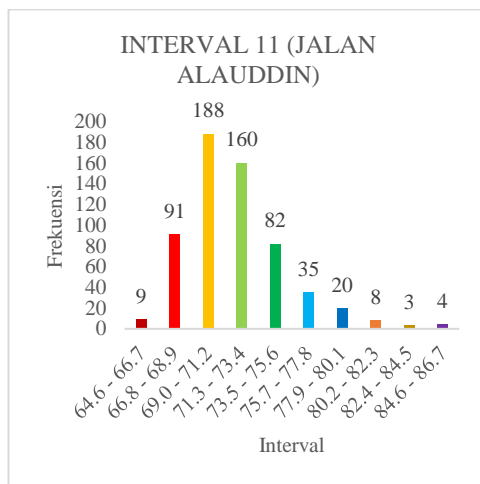
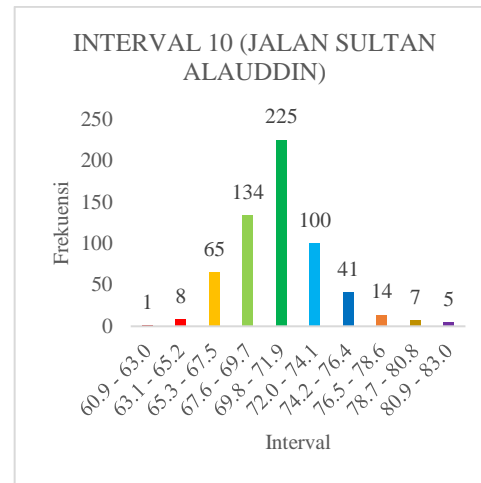
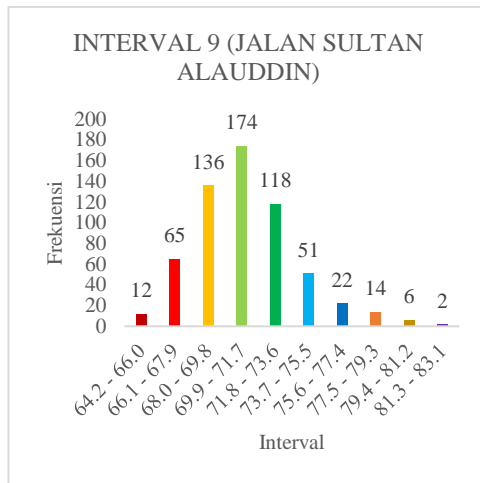




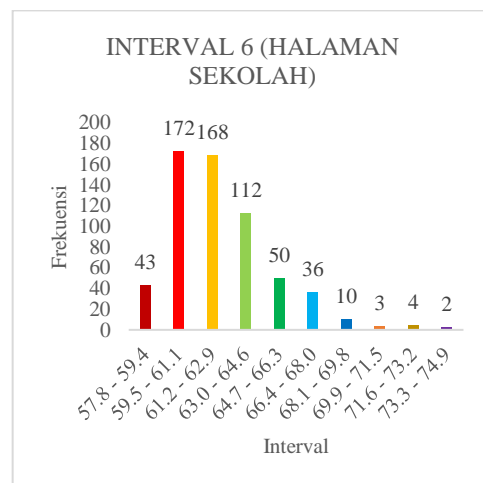
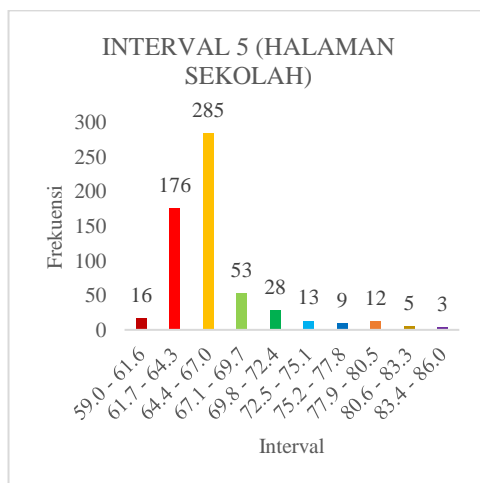
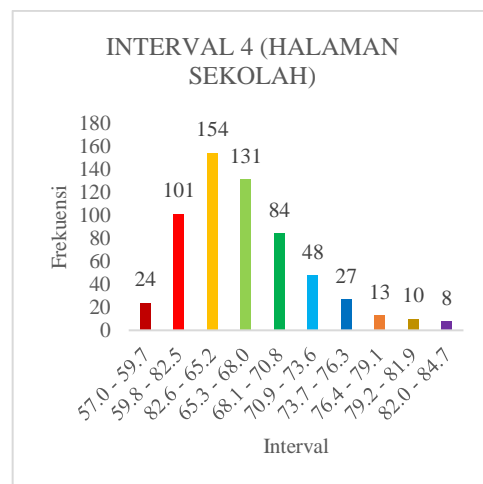
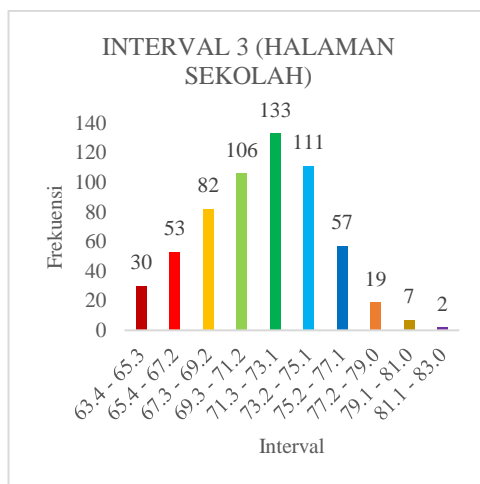
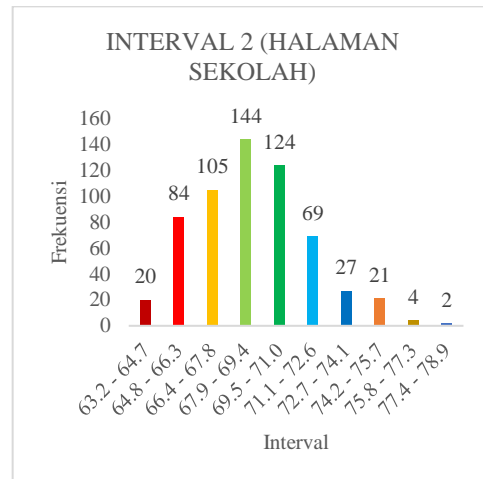
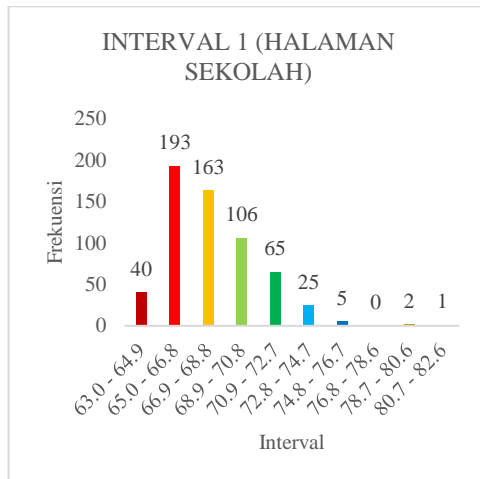
- Titik Pengukuran 2 - Jalan Sultan Alauddin Hari 2 (Weekday)

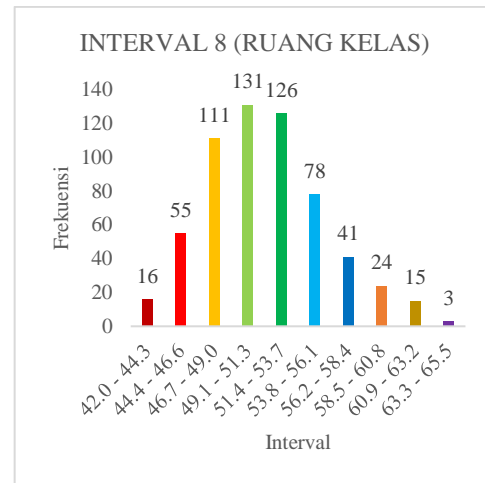
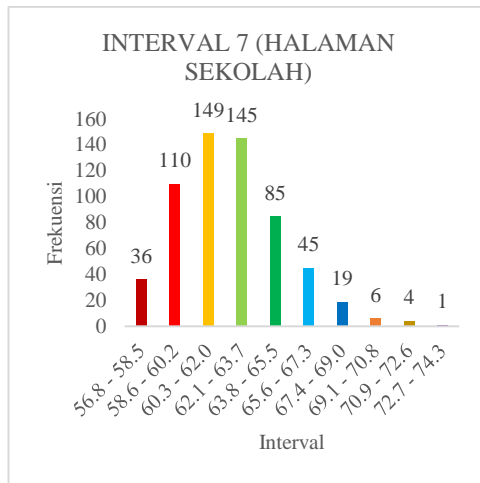




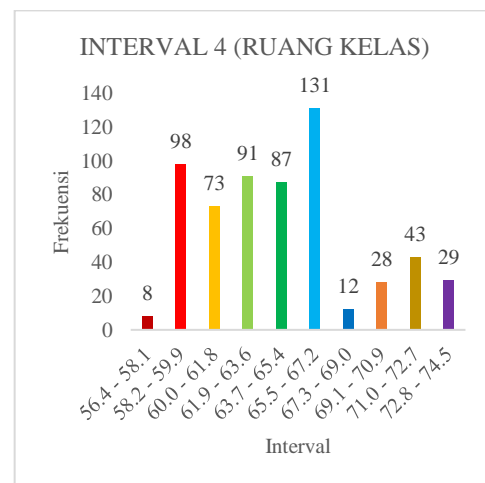
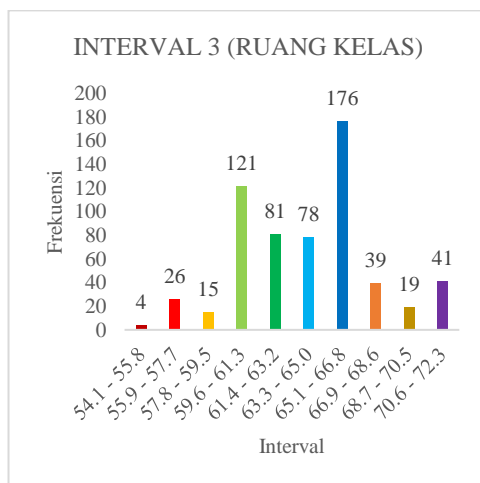
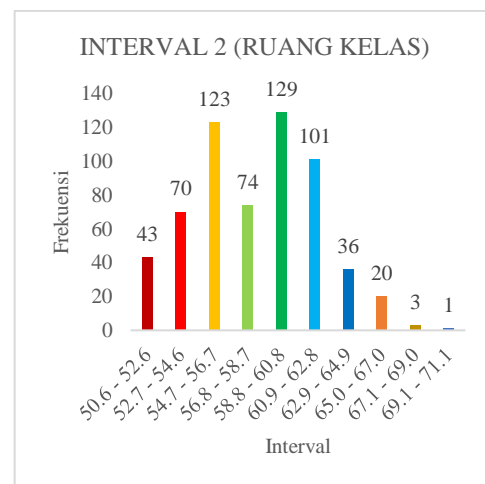
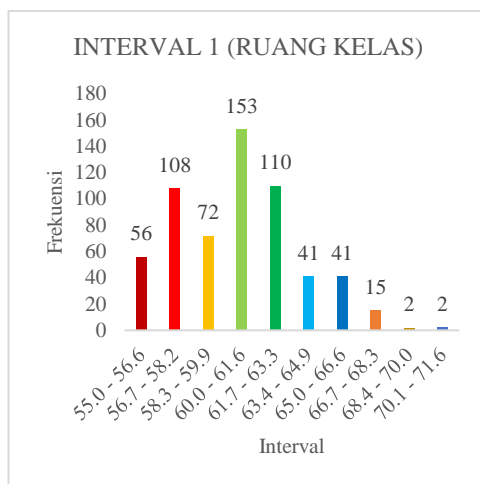


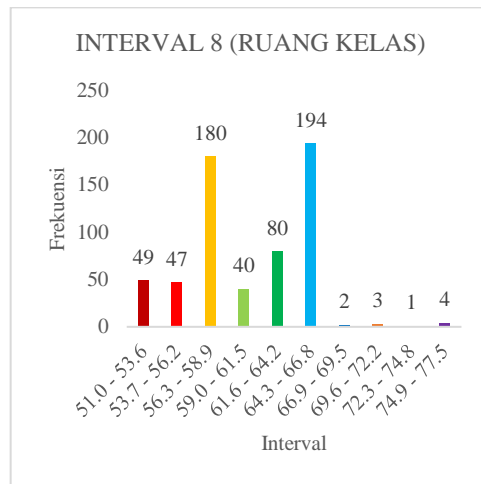
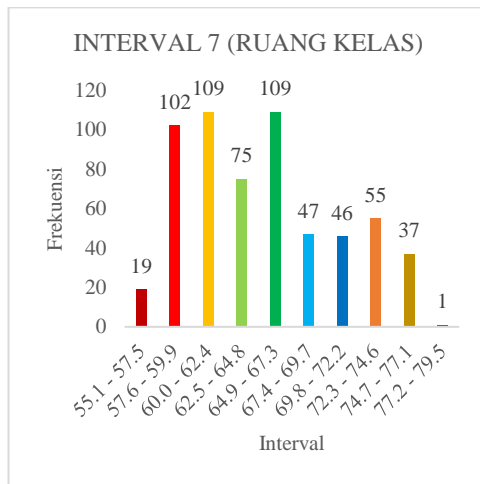
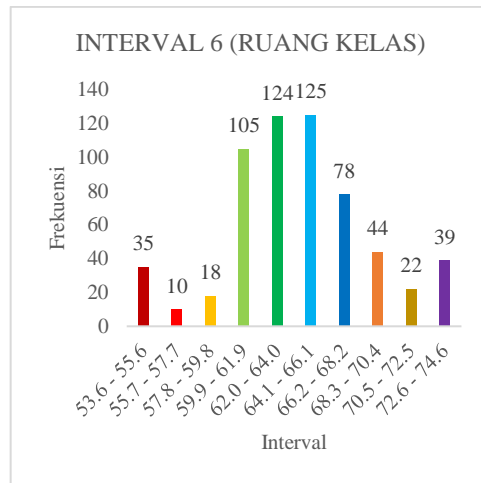
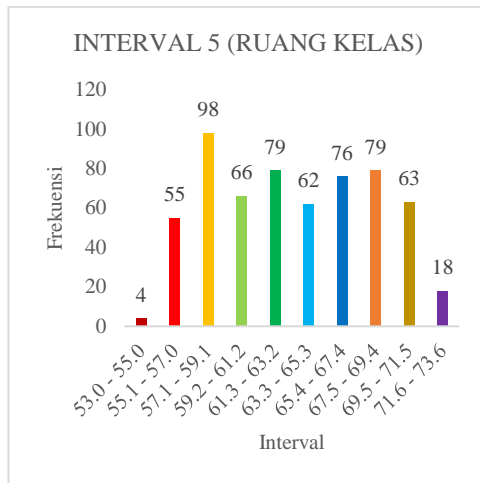
• Titik Pengukuran 3 – Halaman Sekolah Hari 2 (Weekday)



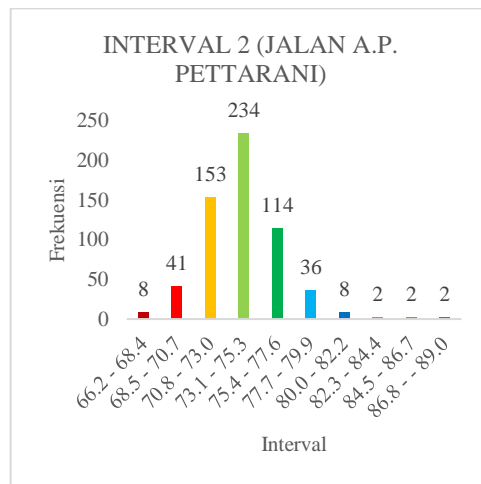
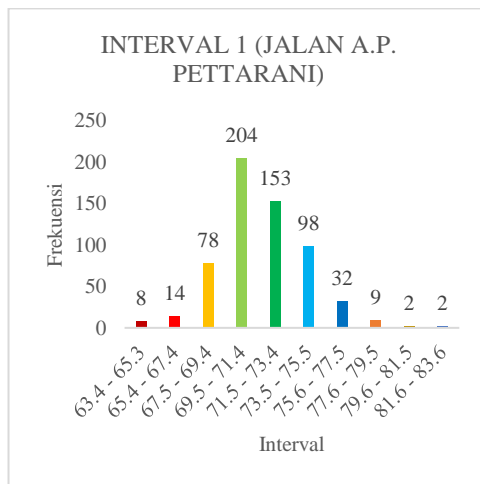


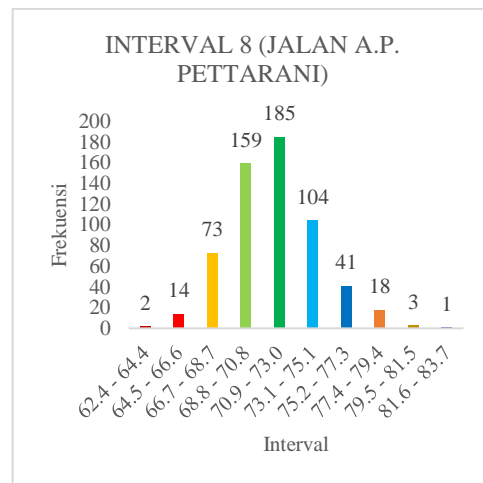
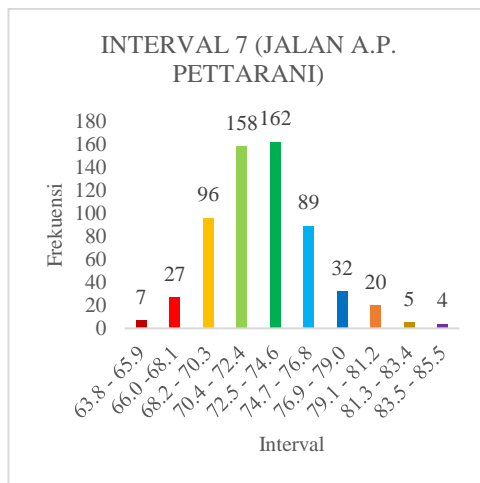
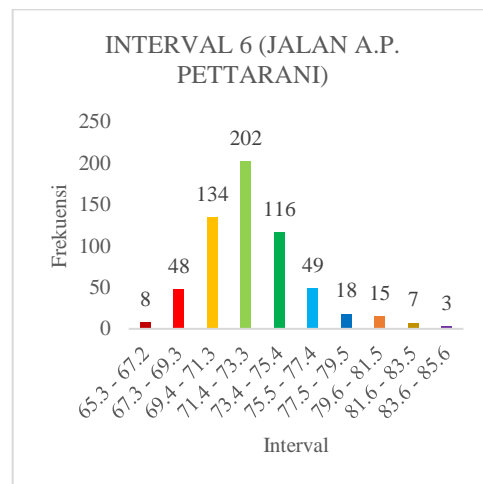
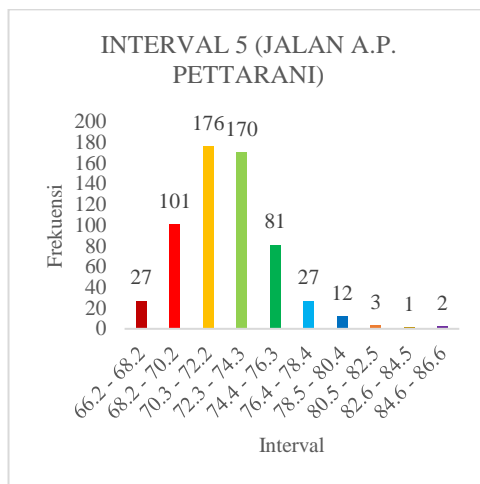
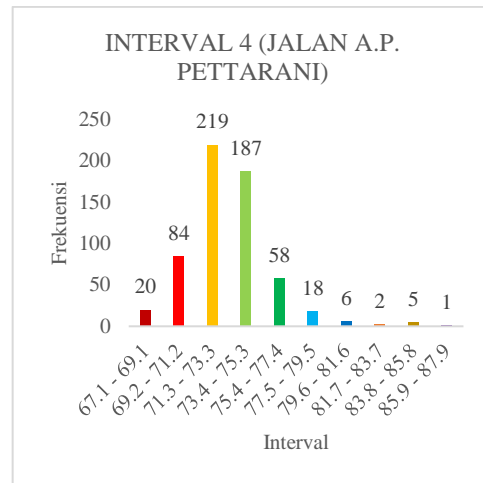
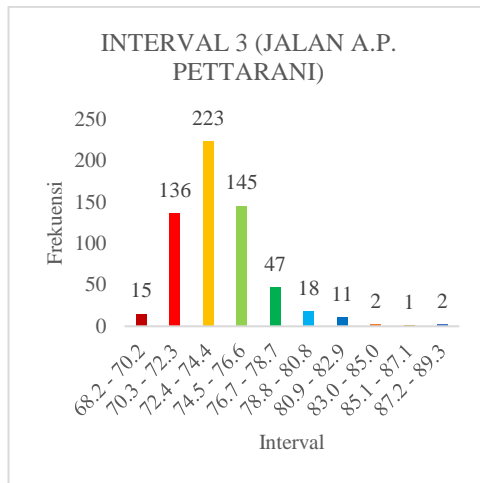
- Titik Pengukuran 4 – Ruang Kelas Hari 2 (Weekday)

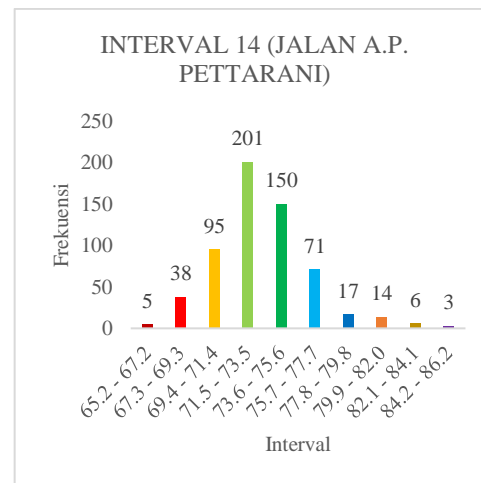
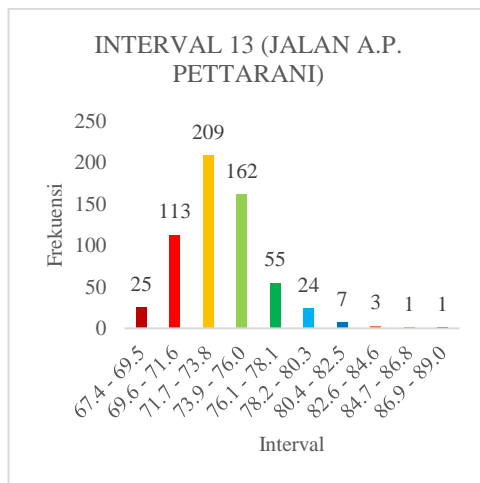
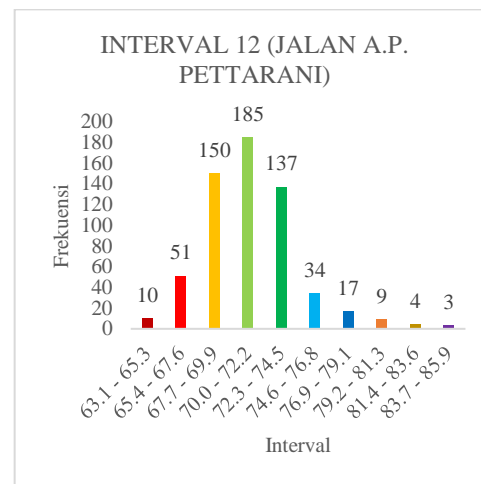
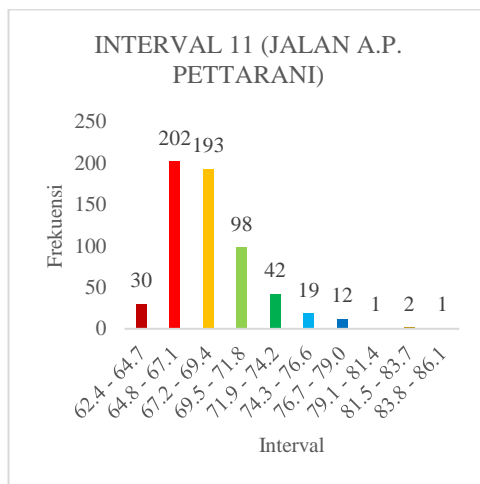
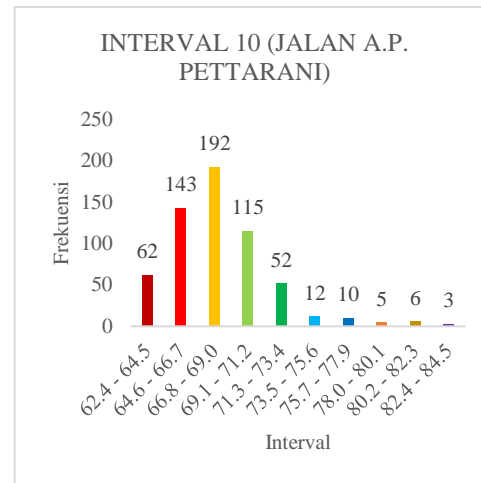
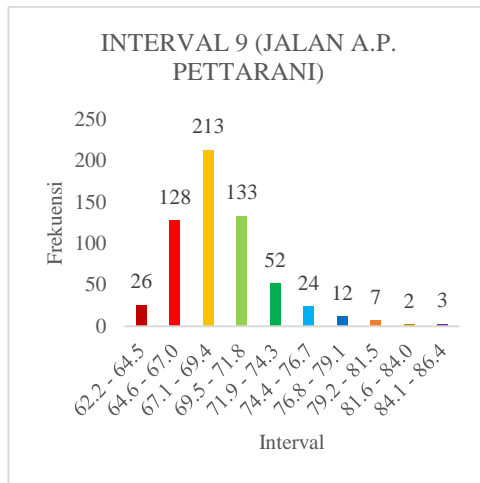




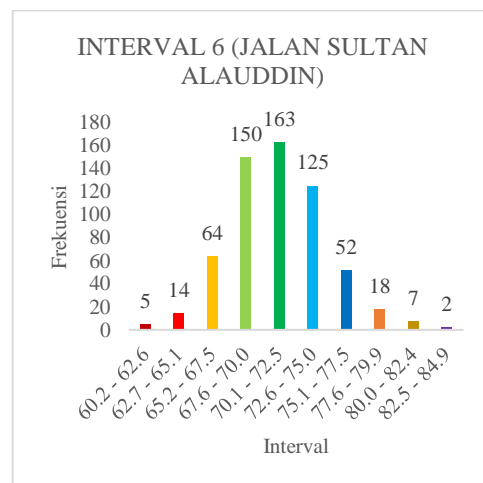
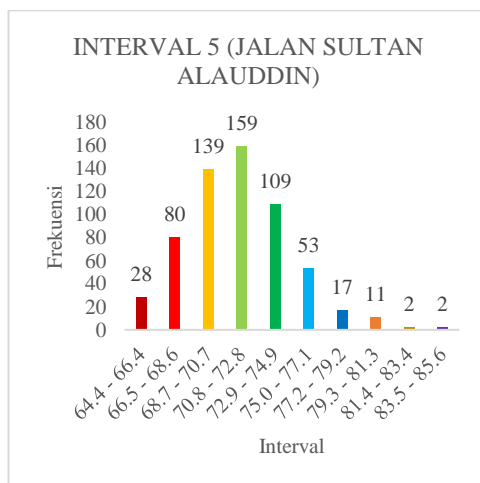
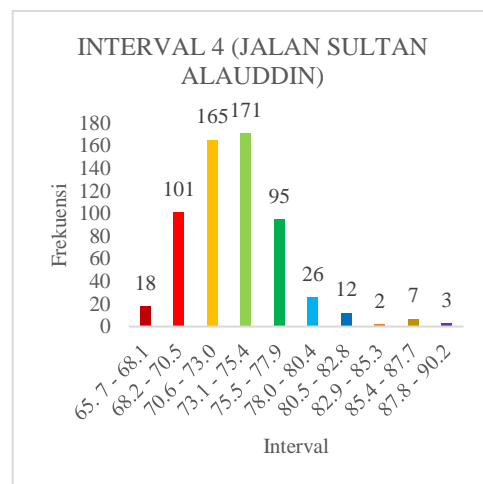
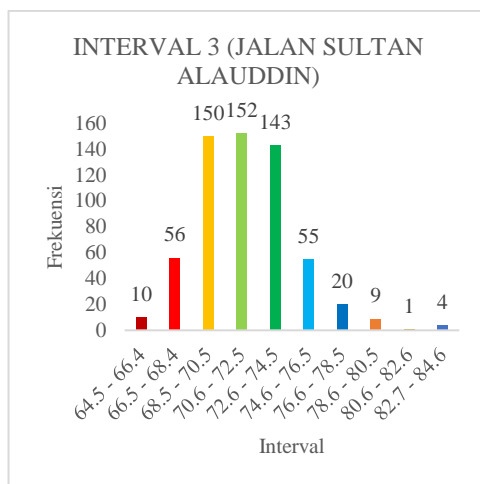
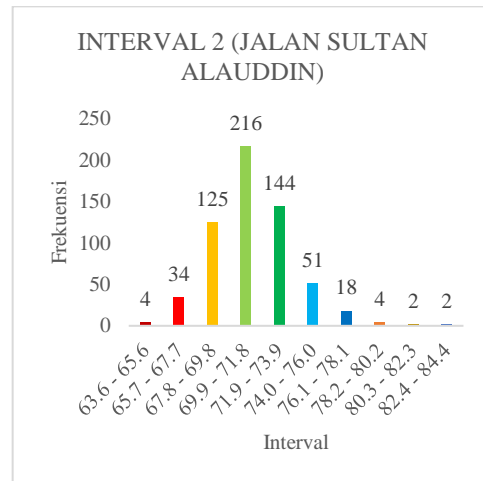
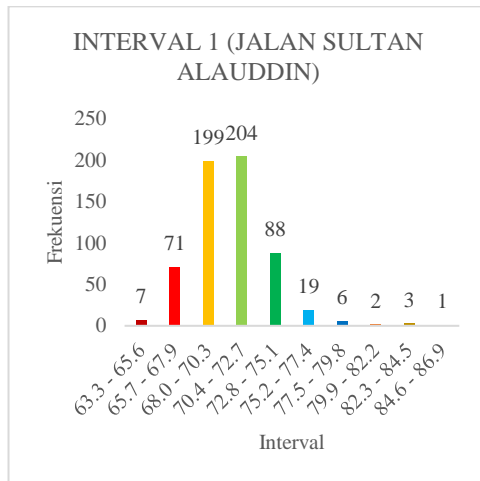
- Titik Pengukuran 1 - Jalan A.P. Pettarani Hari 3 (*Weekday*)

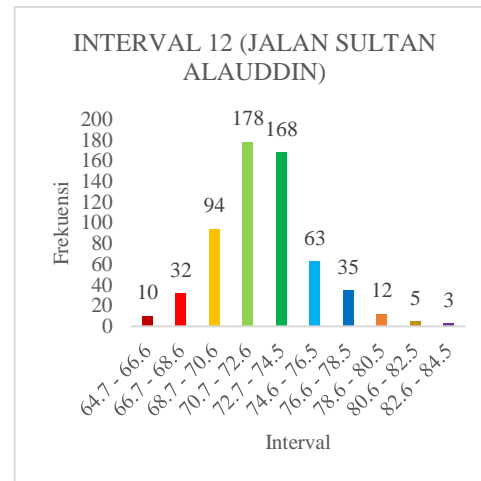
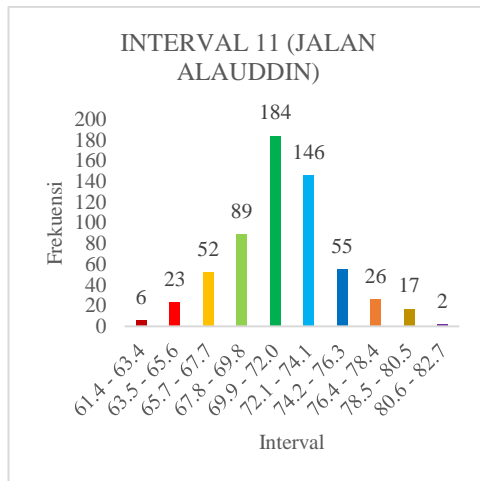
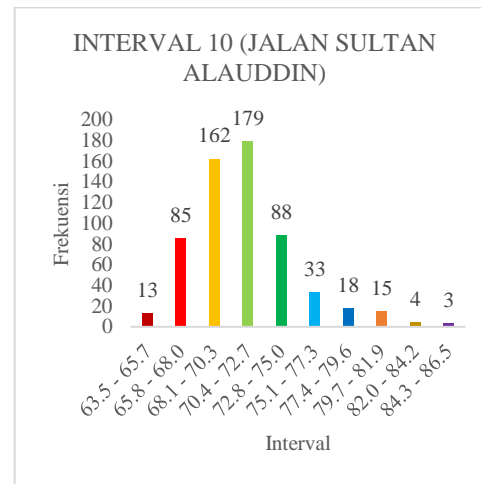
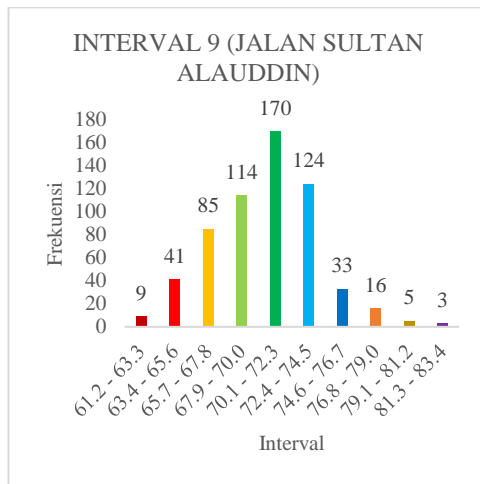
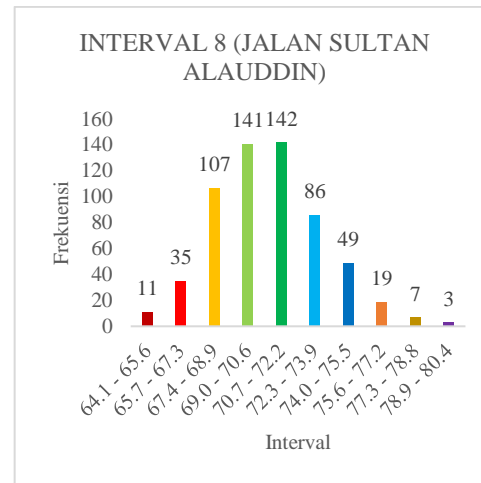
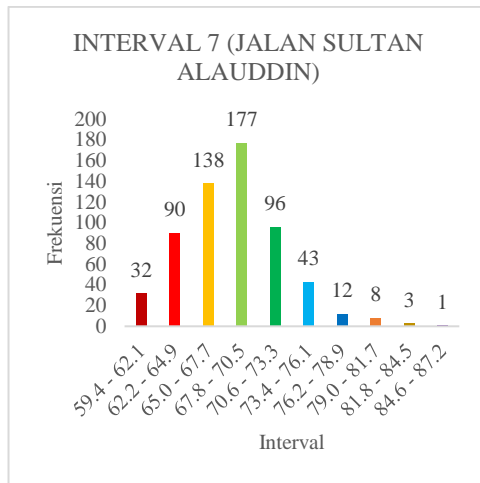


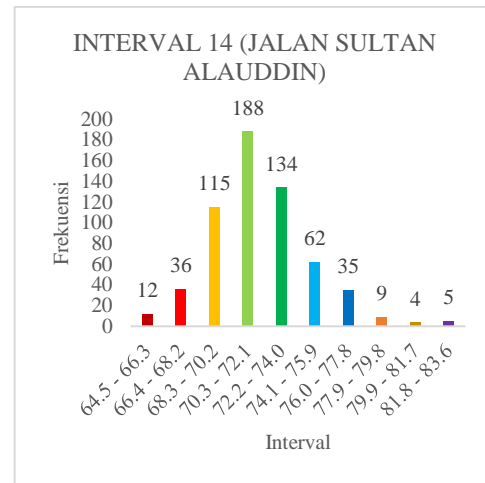
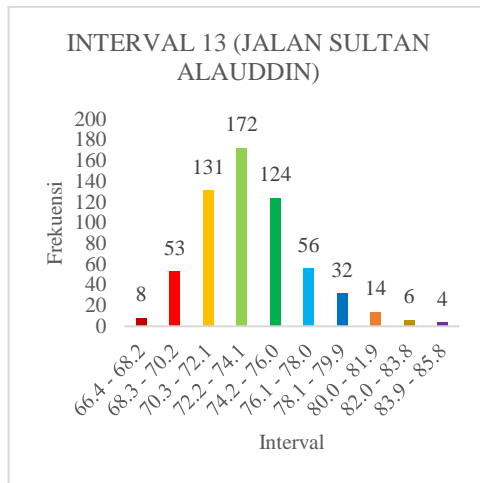




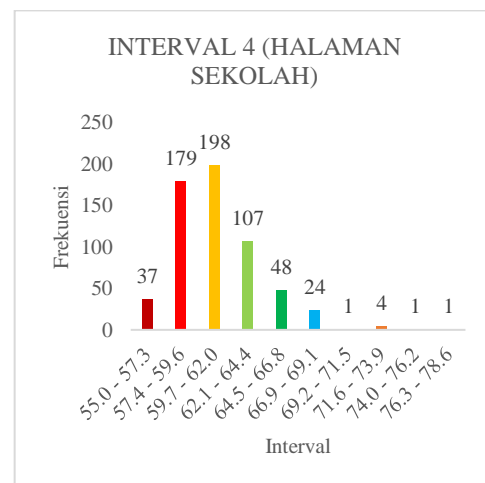
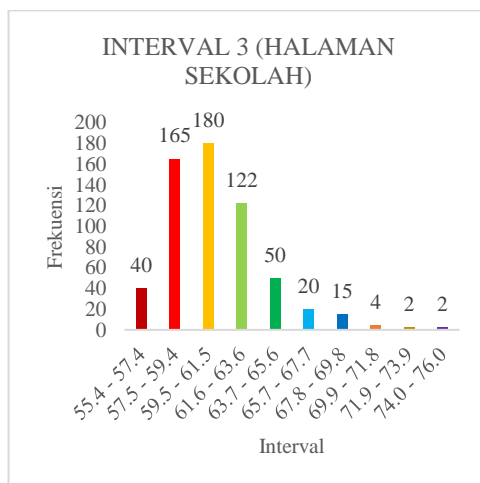
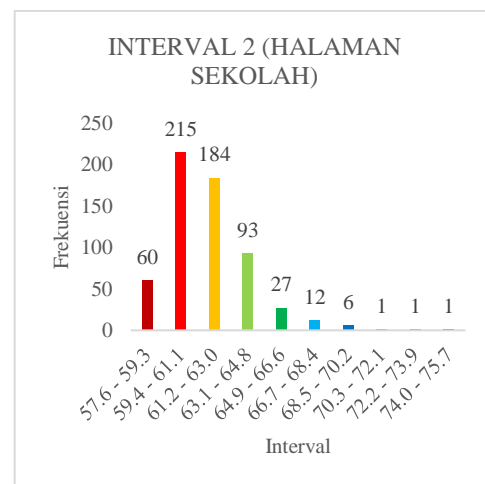
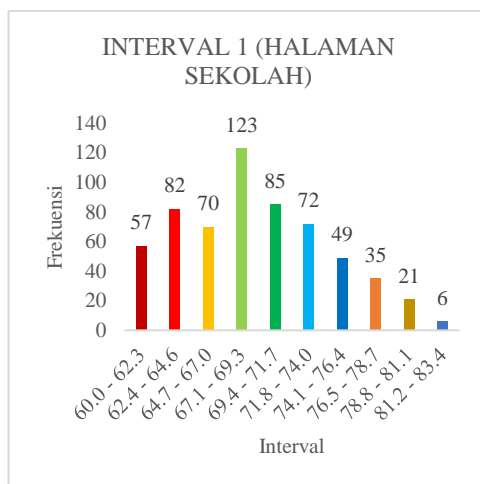
• Titik Pengukuran 2 - Jalan Sultan Alauddin Hari 3 (Weekday)

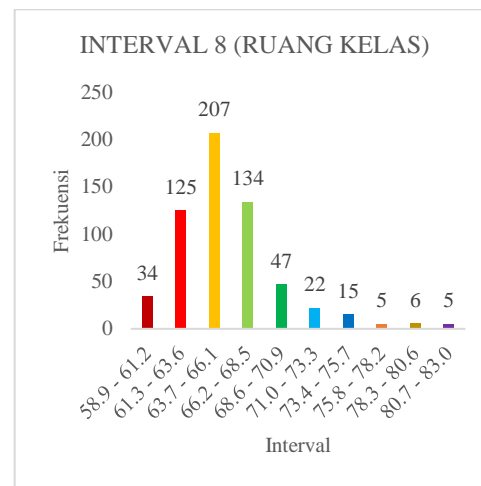
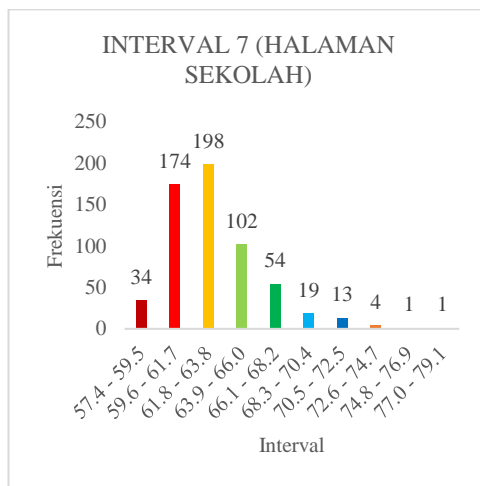
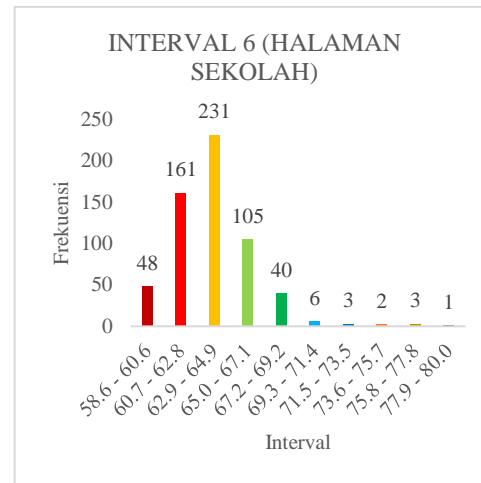
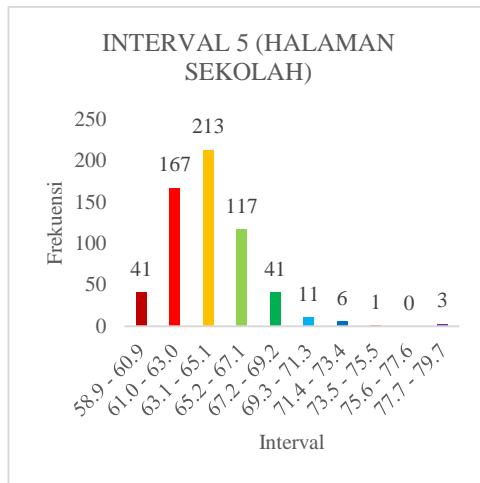




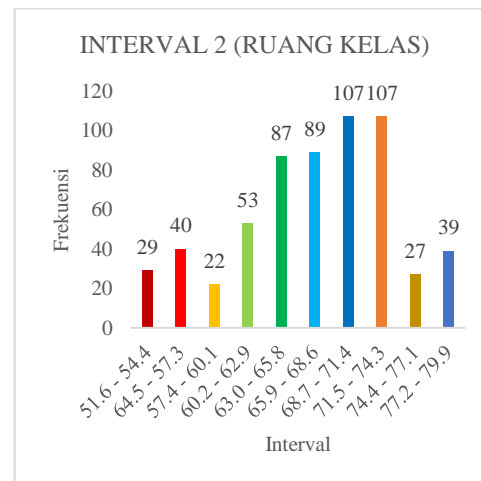
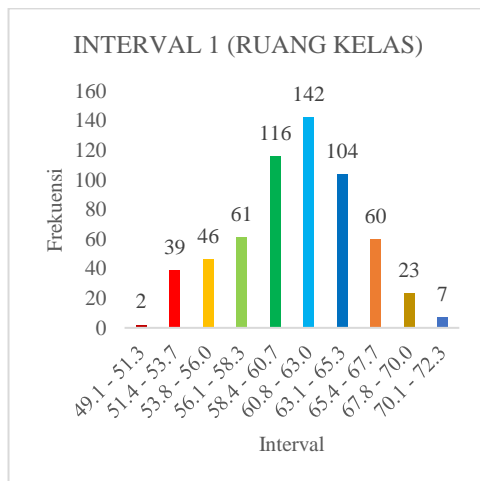


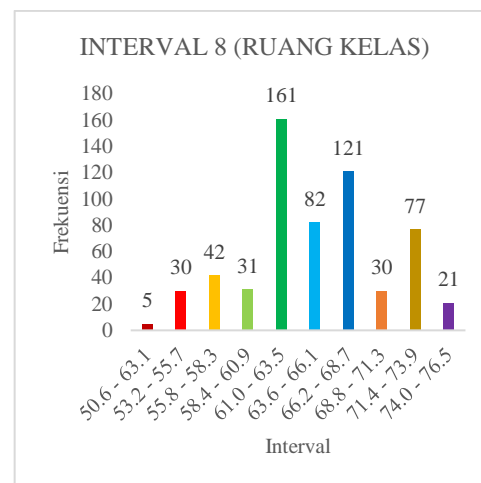
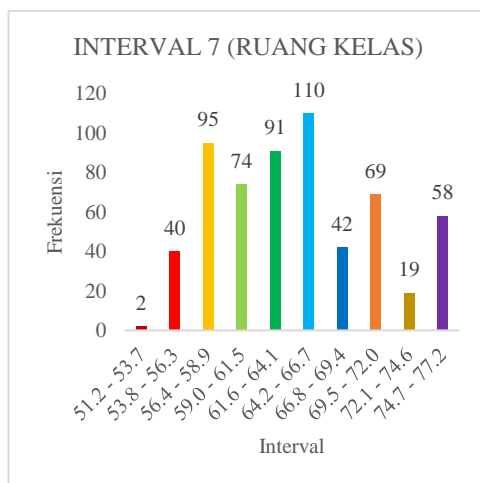
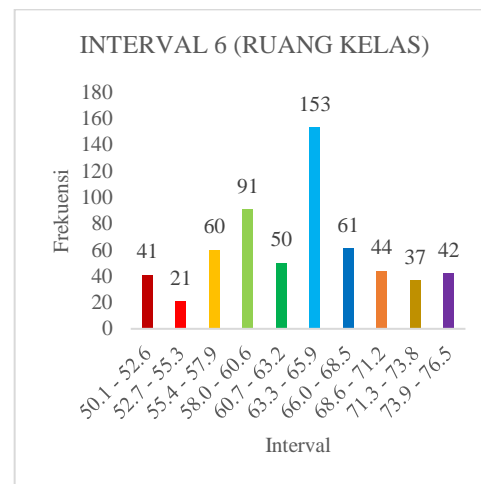
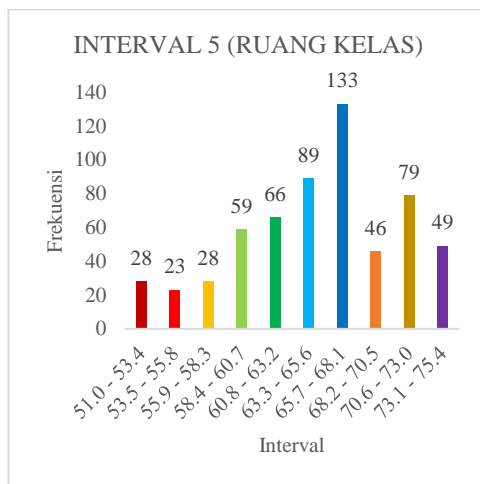
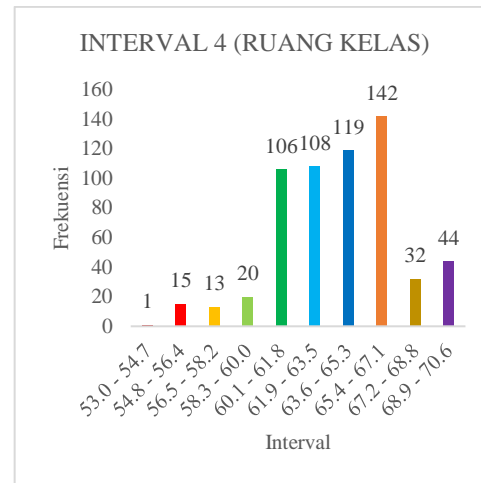
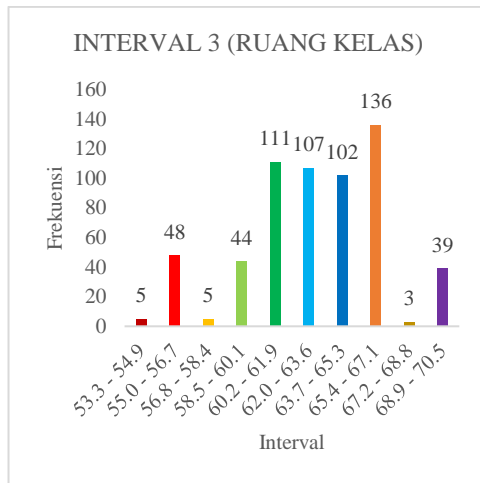
- Titik Pengukuran 3 – Halaman Sekolah Hari 3 (Weekday)



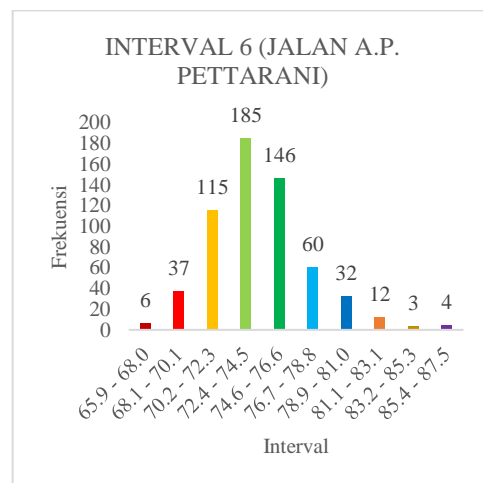
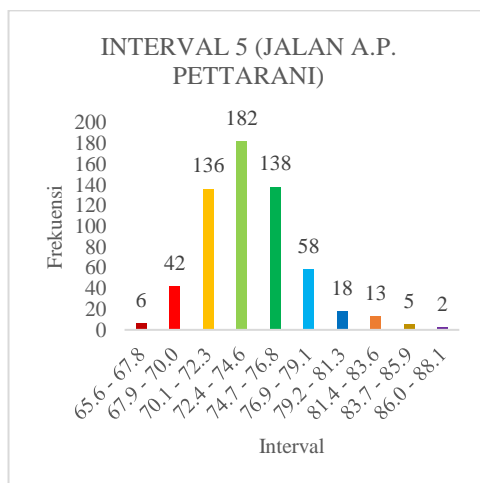
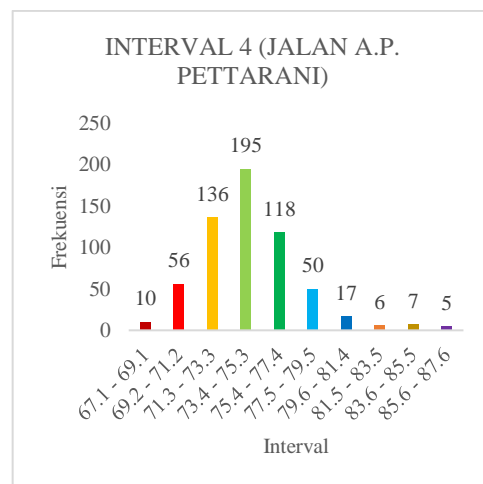
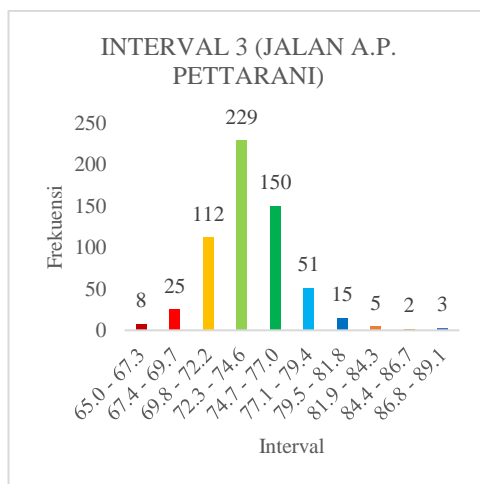
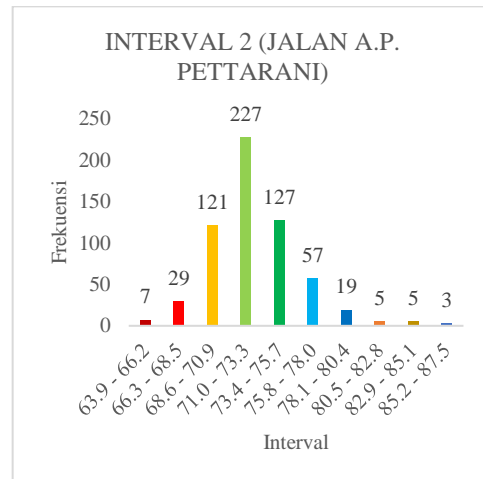
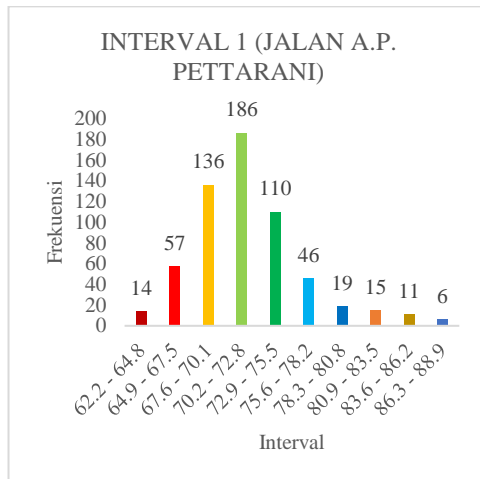


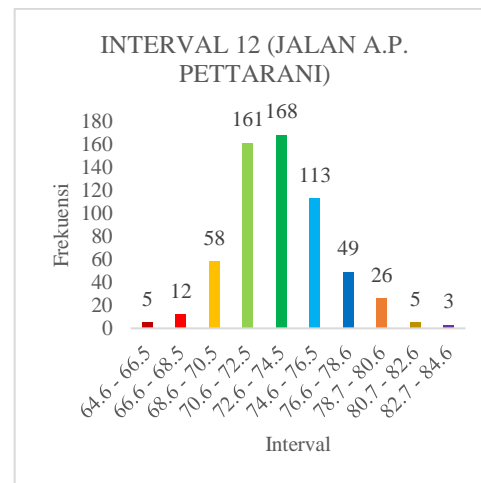
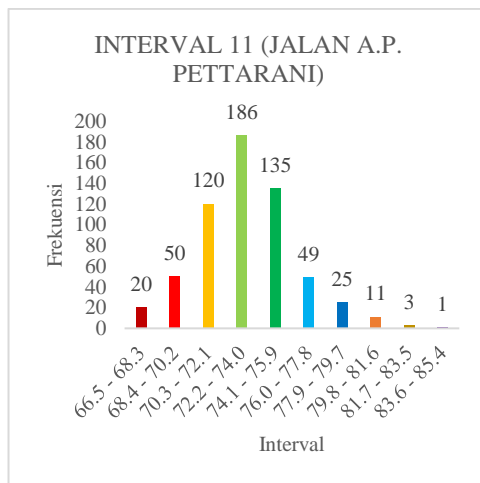
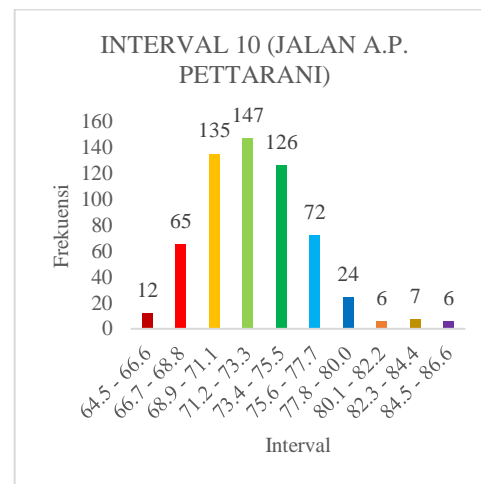
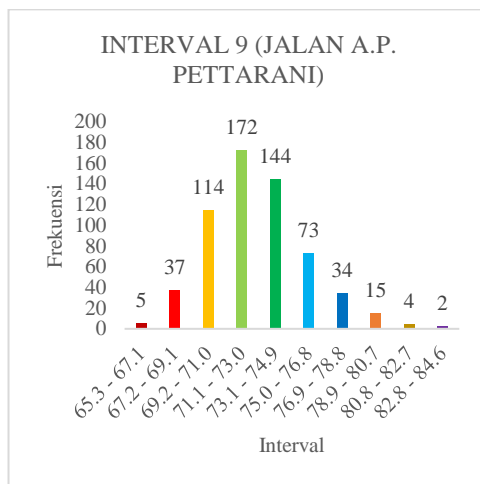
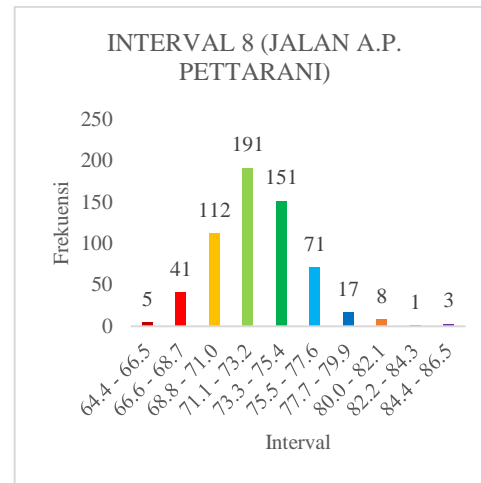
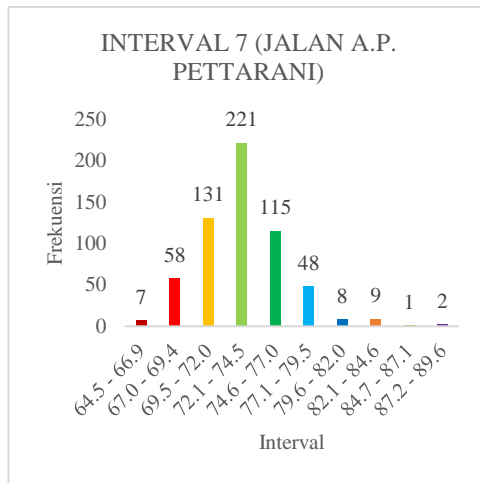
- Titik Pengukuran 4 – Ruang Kelas Hari 3 (Weekday)

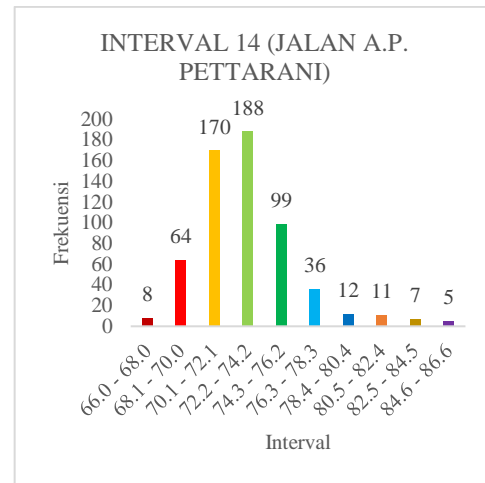
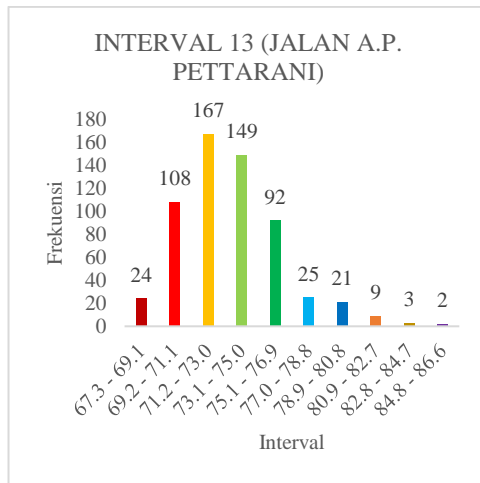




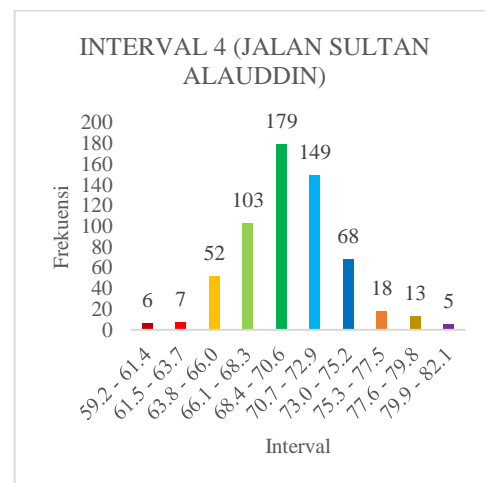
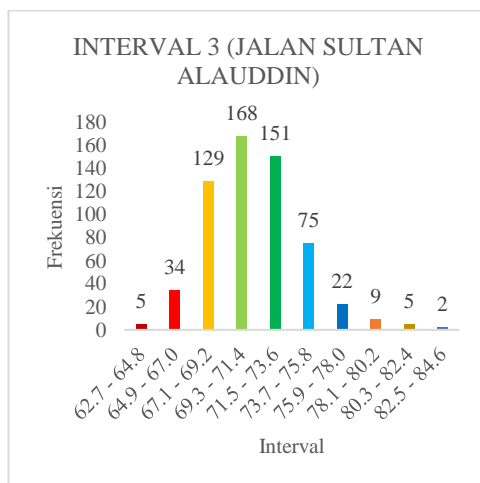
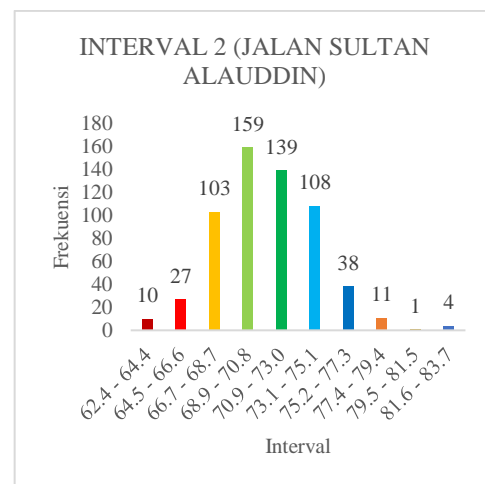
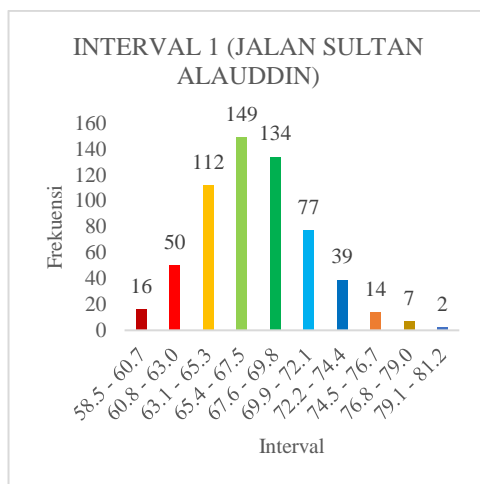
• Titik Pengukuran 1 - Jalan A.P. Pettarani Hari 4 (Weekend)

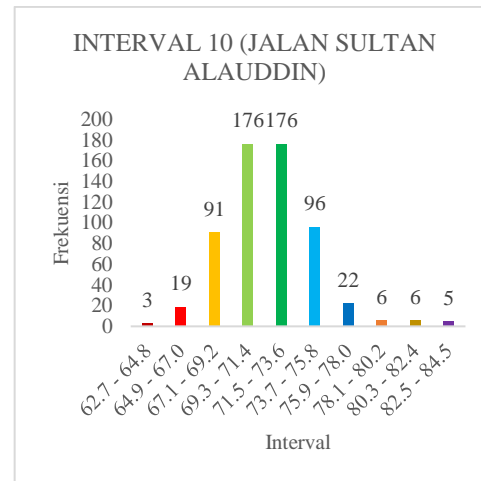
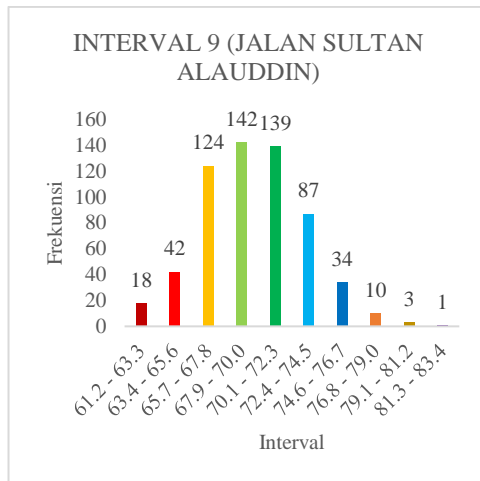
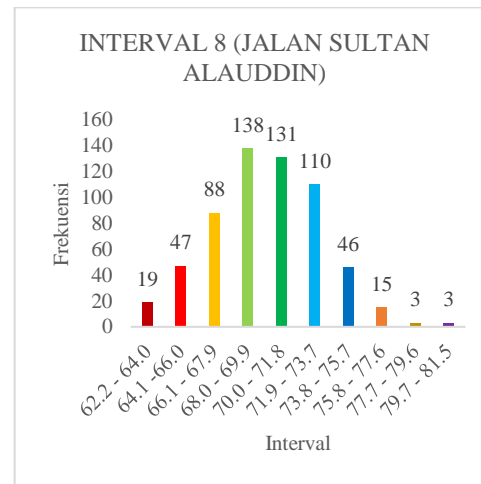
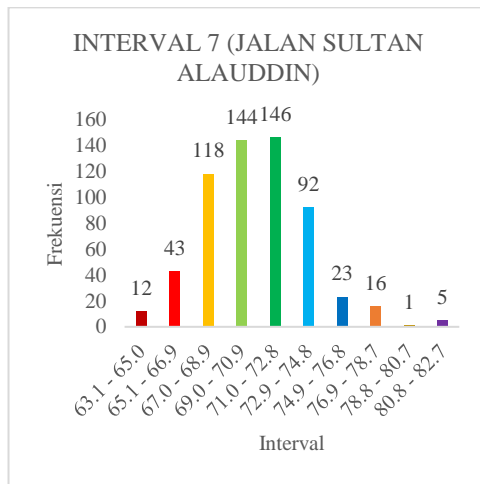
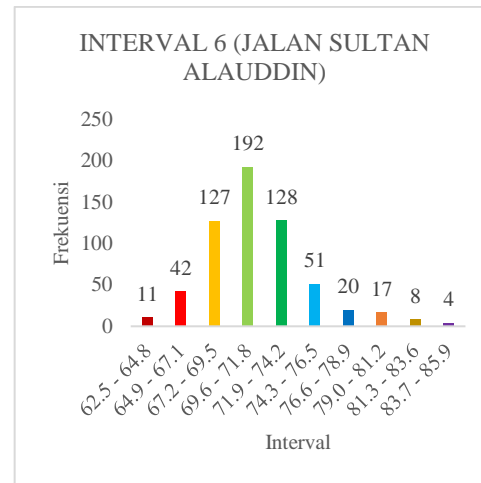
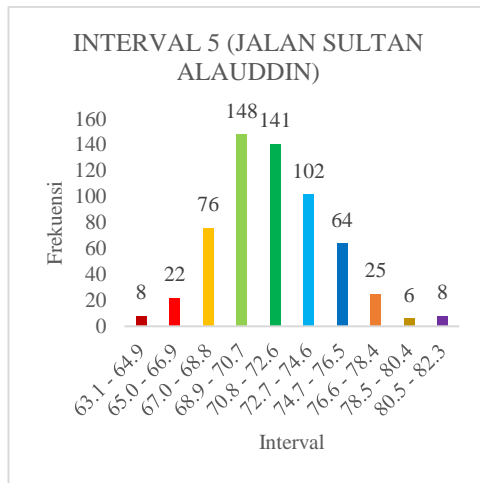


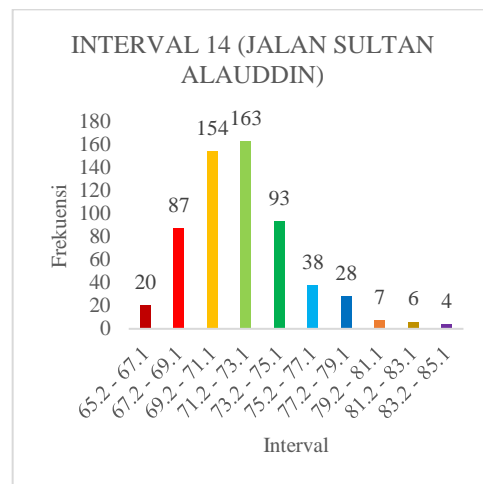
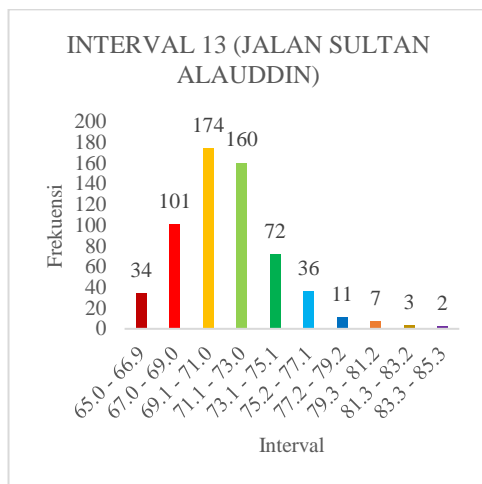
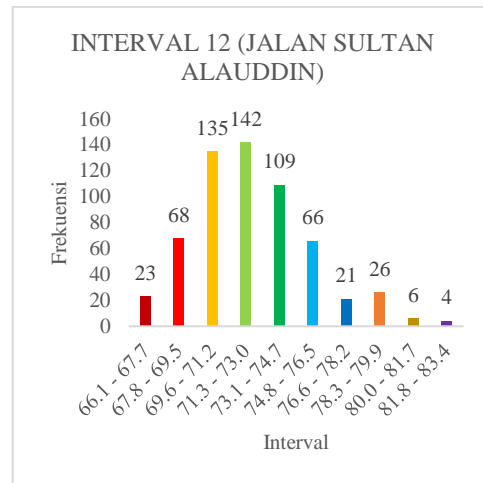
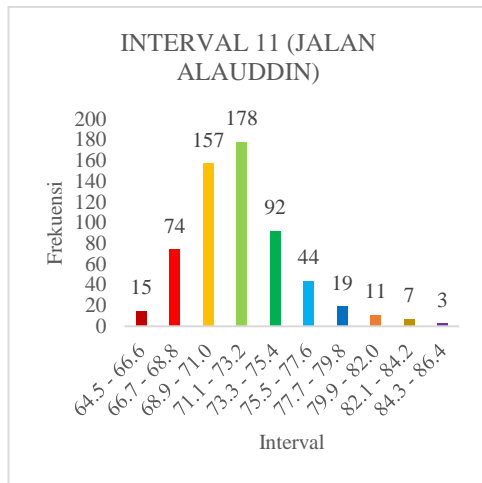




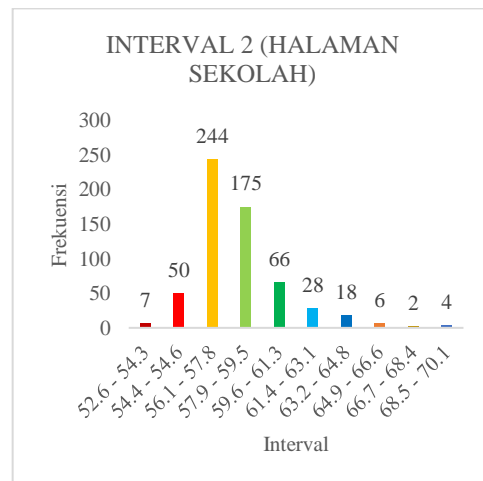
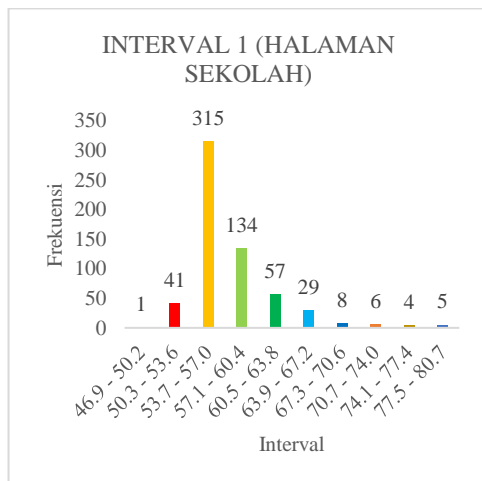
- Titik Pengukuran 2 - Jalan Sultan Alauddin Hari 4 (*Weekend*)

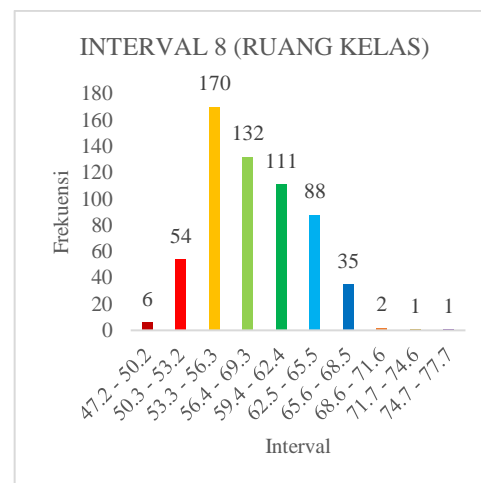
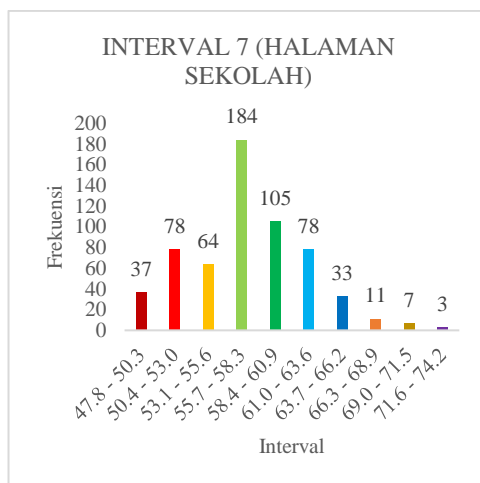
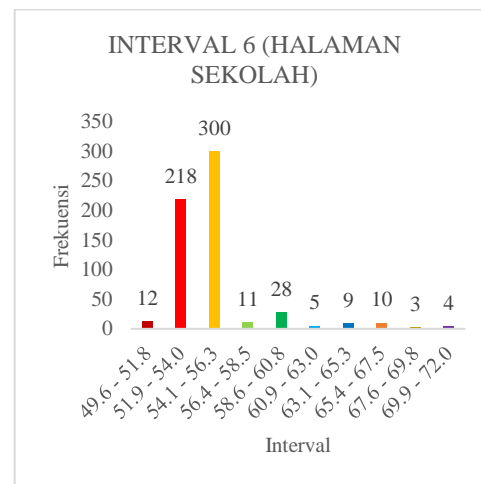
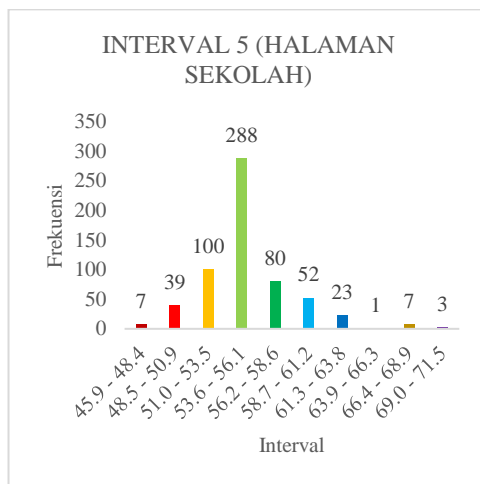
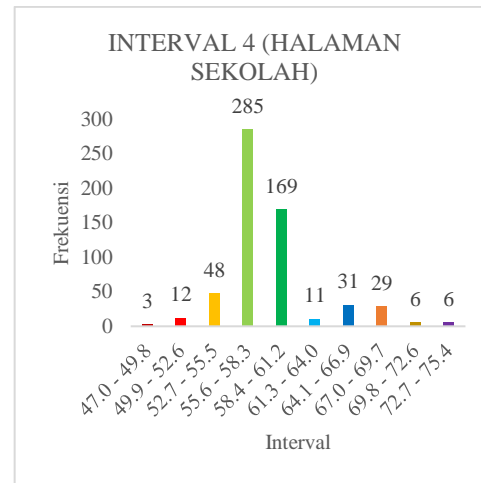
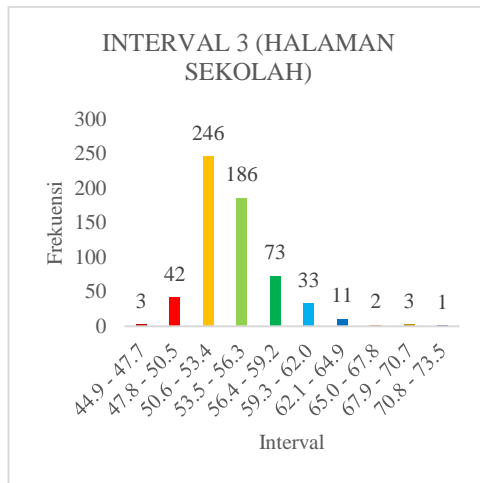




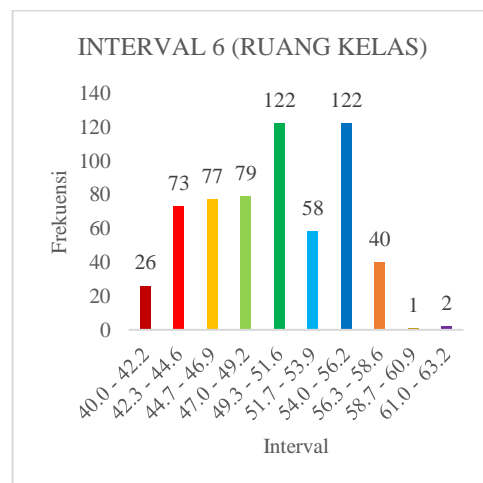
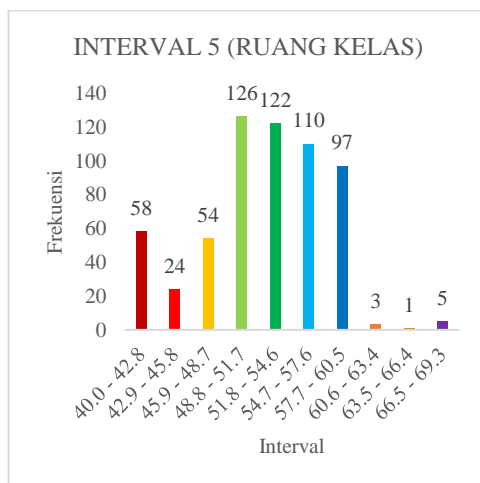
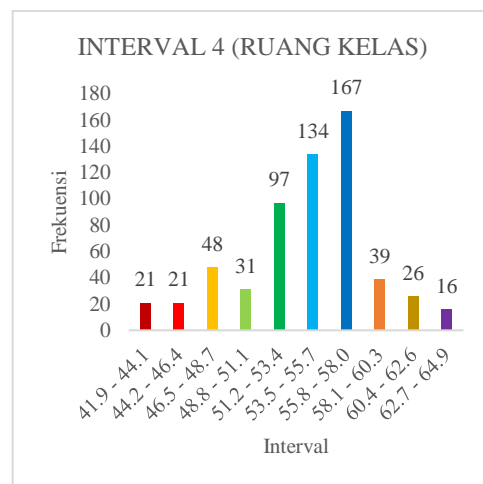
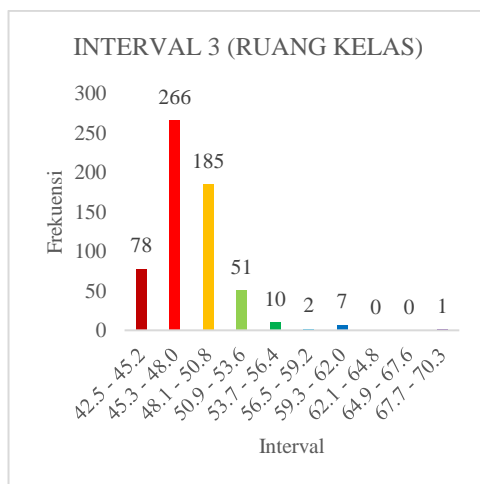
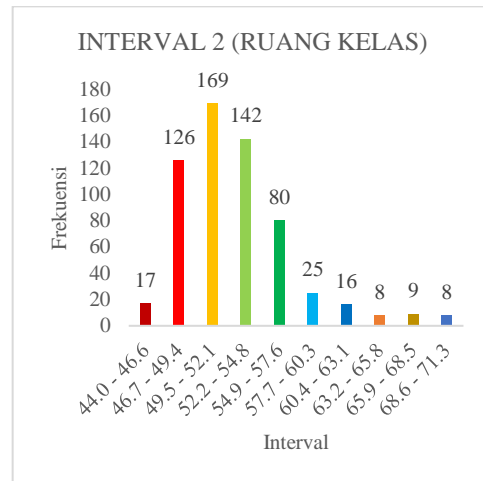
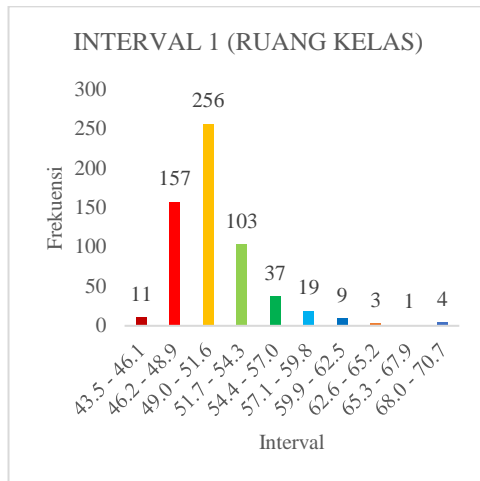


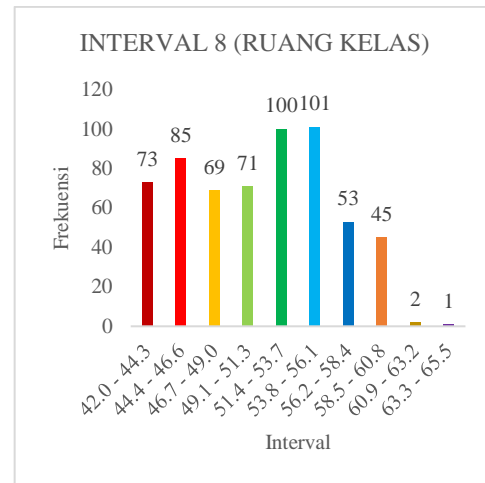
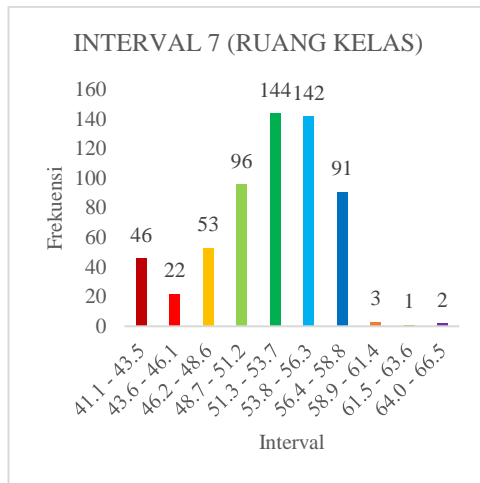
- Titik Pengukuran 3 – Halaman Sekolah Hari 4 (*Weekend*)





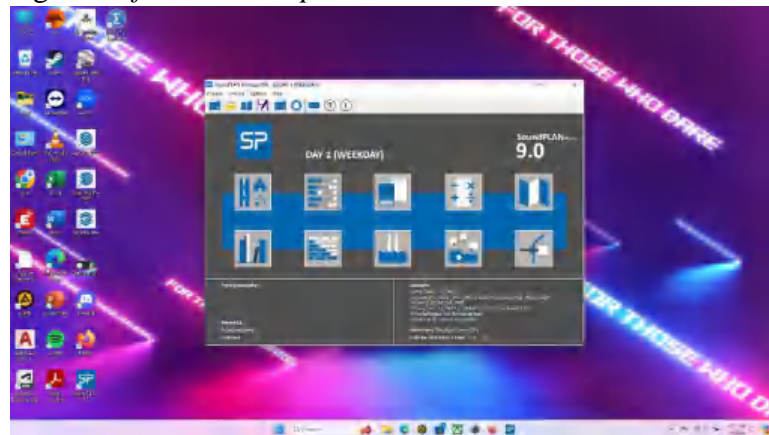
• Titik Pengukuran 4 – Ruang Kelas Hari 4 (Weekend)



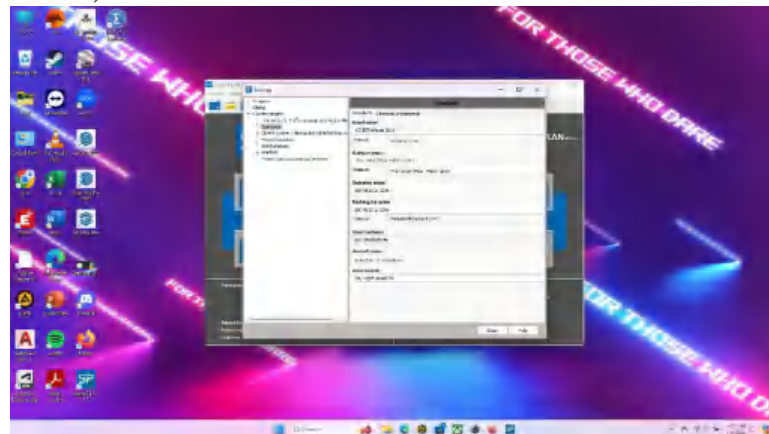


Lampiran 2. Pemodelan Kebisingan Menggunakan *Software Soundplan*

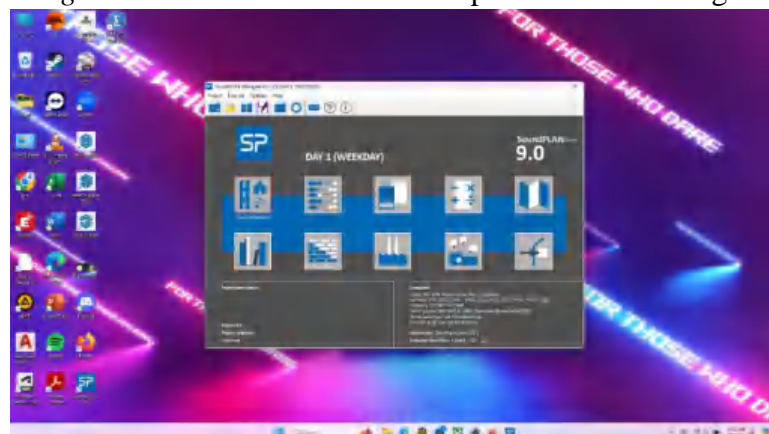
1. Buka Program *software soundplan 9.0*



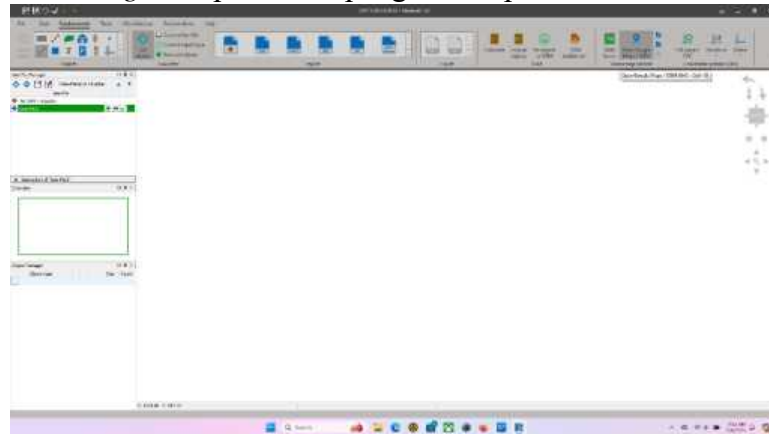
2. Mengatur standar model prediksi kebisingan yang akan digunakan (ASJ RTN – Model 2018)



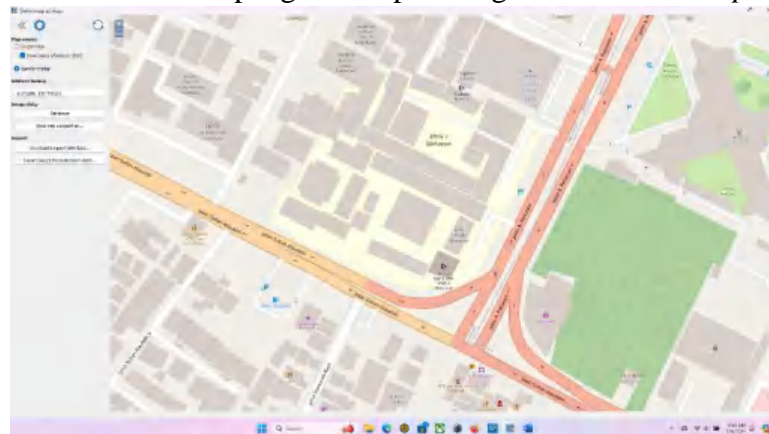
3. Pilih menu *geo-database* untuk melakukan pemodelan kebisingan



4. *Import API-Google Maps Lokasi pengukuran pada menu “fundamental”*



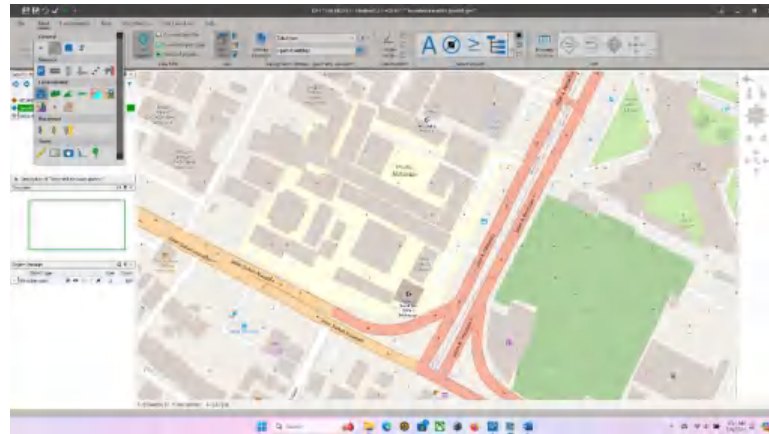
5. *Import koordinat Lokasi pengukuran pada bagian address lookup*



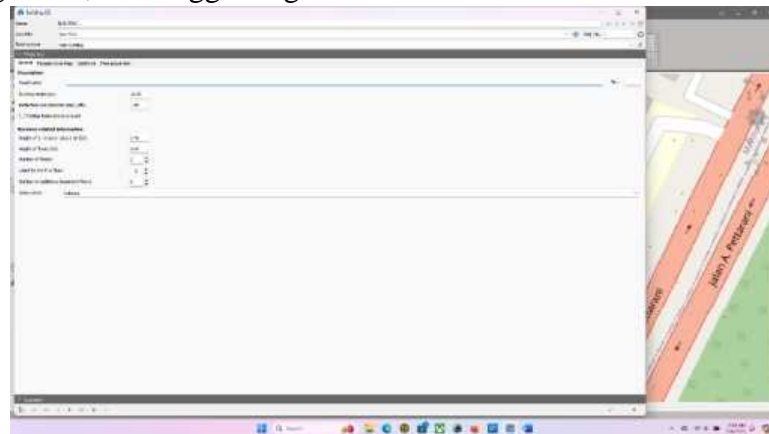
6. *Import google maps elevation data*



7. Pilih menu *start* lalu memilih menu *environment* lalu menu *building*



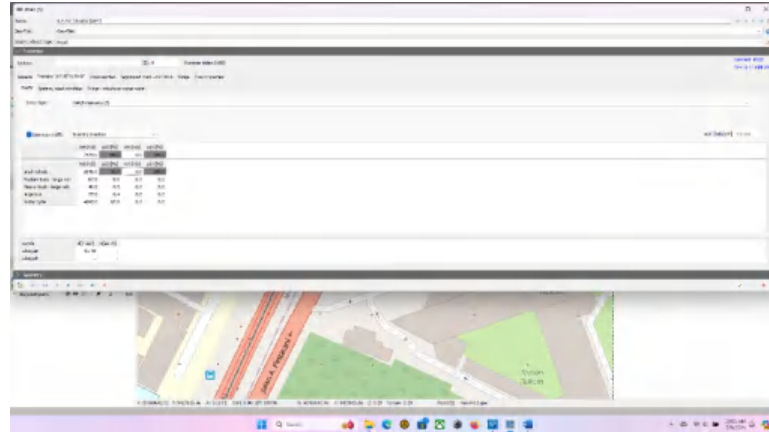
8. Memetakan bangunan (yang ingin dilihat pengaruh bisin/level suara yang sampai ke bangunan tersebut) lengkapi data jumlah lantai, tinggi masing-masing lantai, dan tinggi bangunan



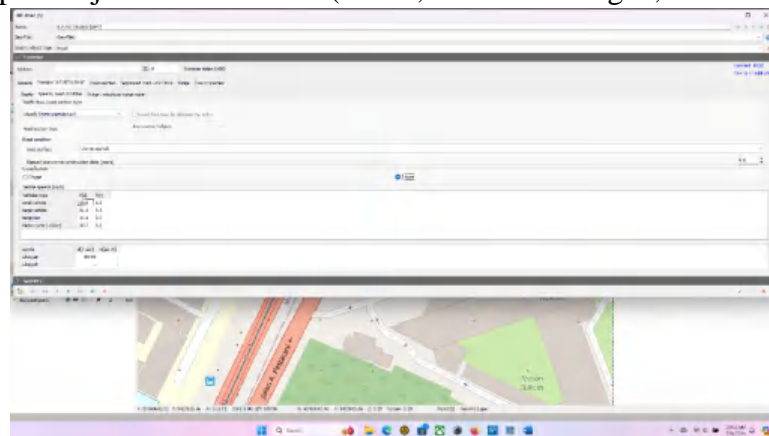
9. Pilih menu *start* lalu memilih menu *environment* lalu menu *road*



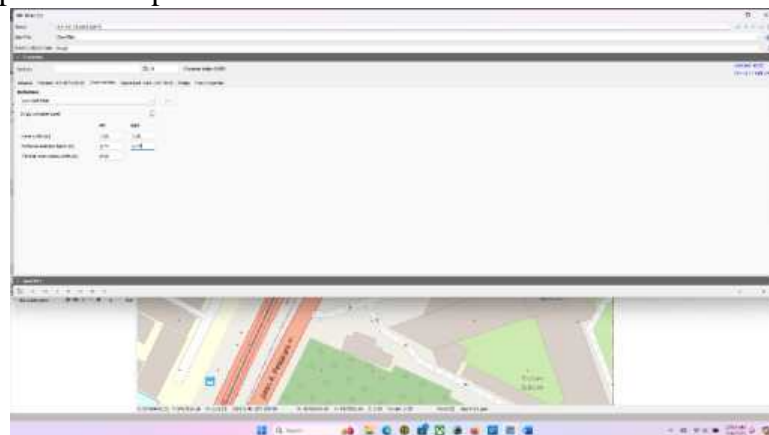
10. Memetakan jalan raya (sebagai sumber bisng)



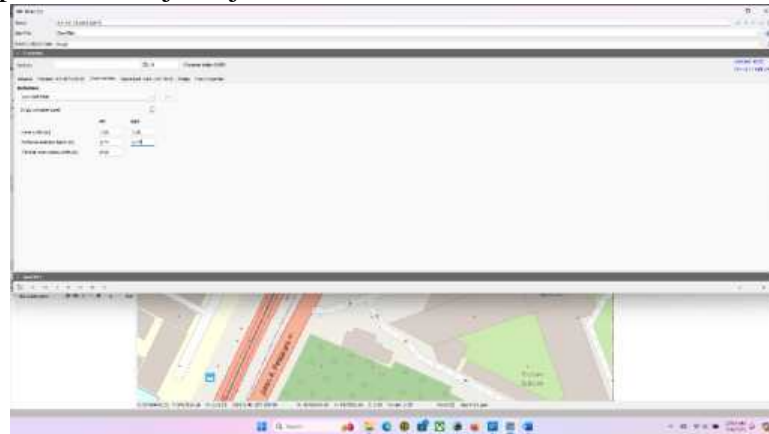
11. lengkapi data jumlah kendaraan (motor, kendaraan ringan, kendaraan berat)



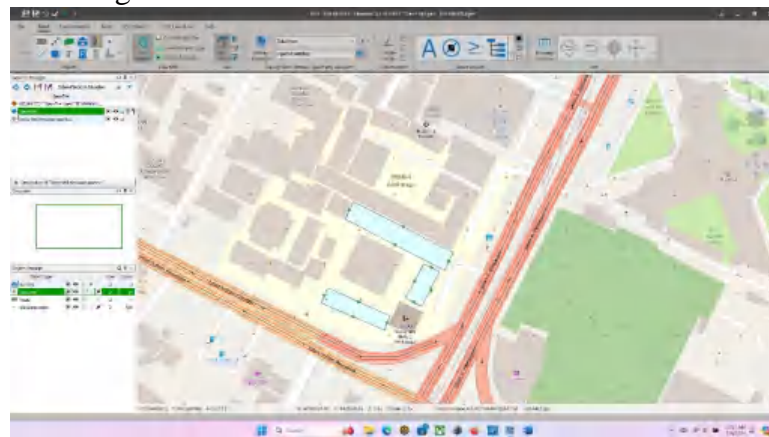
12. lengkapi data kecepatan kendaraan



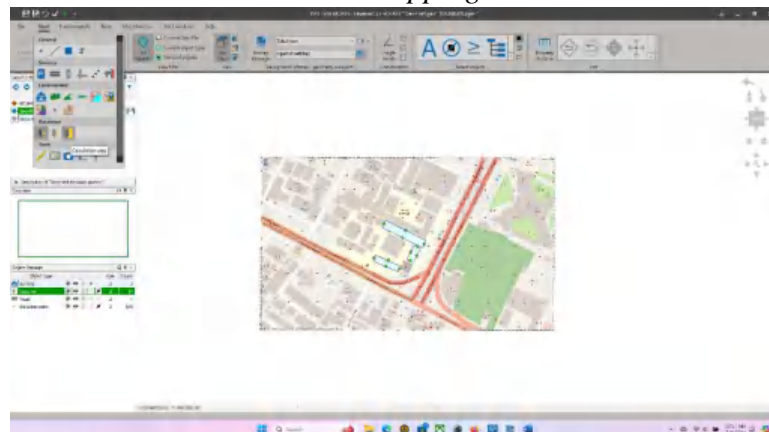
13. lengkapi data lebar jalur jalan



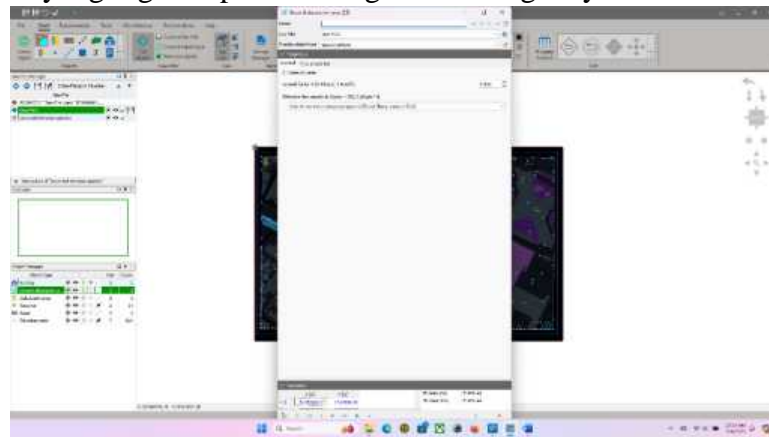
14. Meletakkan poin resiver pada titik Lokasi yang ingin diamati untuk melihat dampak kebisingan



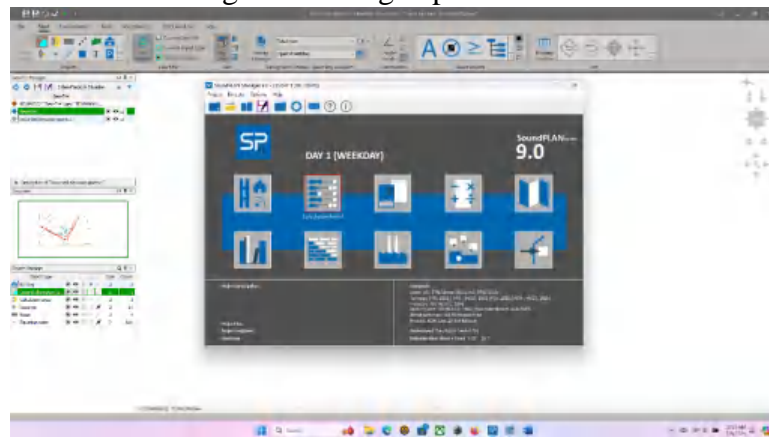
15. Meletakkan resiver area untuk *noise mapping*



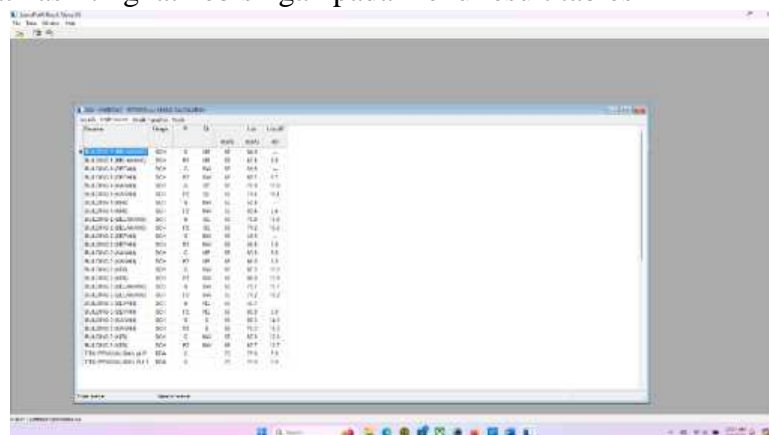
16. Meletakkan ground absorption area untuk memetakan jenis pekerasan tanah pada area yang ingin di prediksi tingkat kebisingannya



17. Melakukan kalkulasi tingkat kebisingan pada menu calculation kernel

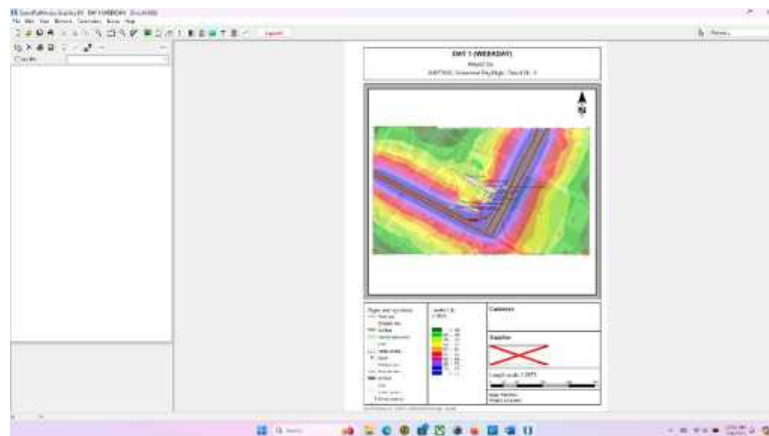


18. Melihat hasil tingkat kebisingan pada menu result tables



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19. Membuat *noise mapping* dari hasil kalkulasi tingkat kebisingan pada menu *graphics*



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Lampiran 3. Prediksi Kebisingan Metode ASJ-RTN 2018 Keadaan *Unsteady*

- Hari 1 (*Weekday*)

| DAY 1 (WEEKDAY) - UNSTEDY | | | | | | | 2 |
|---------------------------|-------|----|-----|-------------------|---------------|------------------|---|
| Assessed receiver levels | | | | | | | |
| SINGLE CALCULATION | | | | | | | |
| Receiver | Usage | Fl | Dir | LrDN,lim dB(A) | LrDN dB(A) | LrDN, diff dB | |
| BUILDING 1 | SCH | G | NW | 55 | 50.9 | --- | |
| | | F2 | | 55 | 61.0 | 6.0 | |
| BUILDING 1 (BELAKANG) | SCH | G | NE | 55 | 57.2 | 2.2 | |
| | | F2 | | 55 | 67.1 | 12.1 | |
| BUILDING 1 (DEPAN) | SCH | G | SW | 55 | 53.2 | --- | |
| | | F2 | | 55 | 62.8 | 7.8 | |
| BUILDING 1 (KANAN) | SCH | G | SE | 55 | 74.1 | 19.1 | |
| | | F2 | | 55 | 74.9 | 19.9 | |
| BUILDING 2 (BELAKANG) | SCH | G | SE | 55 | 73.7 | 18.7 | |
| | | F2 | | 55 | 74.4 | 19.4 | |
| BUILDING 2 (DEPAN) | SCH | G | NW | 55 | 50.5 | --- | |
| | | F2 | | 55 | 60.3 | 5.3 | |
| BUILDING 2 (KANAN) | SCH | G | NE | 55 | 68.1 | 13.1 | |
| | | F2 | | 55 | 69.2 | 14.2 | |
| BUILDING 2 (KIRI) | SCH | G | SW | 55 | 67.0 | 12.0 | |
| | | F2 | | 55 | 69.9 | 14.9 | |
| BUILDING 3 (BELAKANG) | SCH | G | SW | 55 | 74.0 | 19.0 | |
| | | F2 | | 55 | 74.5 | 19.5 | |
| BUILDING 3 (DEPAN) | SCH | G | NE | 55 | 49.4 | --- | |
| | | F2 | | 55 | 59.0 | 4.0 | |
| BUILDING 3 (KANAN) | SCH | G | SE | 55 | 69.7 | 14.7 | |
| | | F2 | | 55 | 72.7 | 17.7 | |
| BUILDING 3 (KIRI) | SCH | G | NW | 55 | 70.3 | 15.3 | |
| | | F2 | | 55 | 71.1 | 16.1 | |
| BUILDING 4 (BELAKANG) | SCH | G | NW | 55 | 59.9 | 4.9 | |
| | | F2 | | 55 | 66.0 | 11.0 | |
| BUILDING 4 (DEPAN) | SCH | G | SE | 55 | 60.1 | 5.1 | |
| | | F2 | | 55 | 65.7 | 10.7 | |
| BUILDING 4 (KANAN) | SCH | G | SW | 55 | 69.9 | 14.9 | |
| | | F2 | | 55 | 72.3 | 17.3 | |
| BUILDING 4 (KIRI) | SCH | G | NE | 55 | 46.1 | --- | |
| | | F2 | | 55 | 53.9 | --- | |
| BUILDING 5 (BELAKANG) | SCH | G | NE | 55 | 43.0 | --- | |
| | | F2 | | 55 | 52.0 | --- | |
| BUILDING 5 (DEPAN) | SCH | G | SW | 55 | 52.2 | --- | |
| | | F2 | | 55 | 61.6 | 6.6 | |
| BUILDING 5 (KANAN) | SCH | G | SE | 55 | 48.5 | --- | |
| | | F2 | | 55 | 59.3 | 4.3 | |
| BUILDING 5 (KIRI) | SCH | G | NW | 55 | 52.5 | --- | |
| | | F2 | | 55 | 62.1 | 7.1 | |
| BUILDING 6 (BELAKANG) | SCH | G | NW | 55 | 61.6 | 6.6 | |
| | | F2 | | 55 | 67.7 | 12.7 | |
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DAY 1 (WEEKDAY) - UNSTEDY
Assessed receiver levels
SINGLE CALCULATION

2

| Receiver | Usage | Fl | Dir | LrDN,lim dB(A) | LrDN dB(A) | LrDN, diff dB | |
|--------------------|-------|---------|-----|-------------------|---------------|------------------|--|
| BUILDING 6 (DEPAN) | SCH | G F2 | SE | 55 55 | 58.6 66.0 | 3.6 11.0 | |
| BUILDING 6 (KANAN) | SCH | G F2 | SW | 55 55 | 68.7 72.4 | 13.7 17.4 | |
| BUILDING 6 (KIRI) | SCH | G F2 | NE | 55 55 | 44.2 48.4 | --- --- | |
| MASJID (BELAKANG) | SCH | G | SE | 55 | 75.6 | 20.6 | |
| MASJID (DEPAN) | SCH | G | NW | 55 | 59.2 | 4.2 | |
| MASJID (KANAN) | SCH | G | NE | 55 | 67.1 | 12.1 | |
| MASJID (KIRI) | SCH | G | S | 55 | 75.0 | 20.0 | |
| TITIK PENGUKURAN 1 | RDA | G | | 70 | 78.0 | 8.0 | |
| TITIK PENGUKURAN 2 | RDA | G | | 70 | 78.5 | 8.5 | |
| TITIK PENGUKURAN 3 | SCH | G | | 55 | 46.9 | --- | |
| TITIK PENGUKURAN 4 | SCH | G F2 | SW | 55 55 | 63.9 66.6 | 8.9 11.6 | |

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- Hari 2 (Weekday)

| | |
|--|----------|
| DAY 2 (WEEKDAY) - UNSTEDY Assessed receiver levels SINGLE CALCULATION | 2 |
|--|----------|

| Receiver | Usage | Fl | Dir | LrDN,lim dB(A) | LrDN dB(A) | LrDN, diff dB | |
|-----------------------|-------|---------|-----|-------------------|---------------|------------------|--|
| BUILDING 1 (BELAKANG) | SCH | G F2 | NE | 55 55 | 57.8 67.9 | 2.8 12.9 | |
| BUILDING 1 (DEPAN) | SCH | G F2 | SW | 55 55 | 52.8 62.6 | --- 7.6 | |
| BUILDING 1 (KANAN) | SCH | G F2 | SE | 55 55 | 74.8 75.2 | 19.8 20.2 | |
| BUILDING 1 (KIRI) | SCH | G F2 | NW | 55 55 | 49.7 60.4 | --- 5.4 | |
| BUILDING 2 (BELAKANG) | SCH | G F2 | SE | 55 55 | 74.1 74.8 | 19.1 19.8 | |
| BUILDING 2 (DEPAN) | SCH | G F2 | NW | 55 55 | 50.1 60.0 | --- 5.0 | |
| BUILDING 2 (KANAN) | SCH | G F2 | NE | 55 55 | 68.0 69.1 | 13.0 14.1 | |
| BUILDING 2 (KIRI) | SCH | G F2 | SW | 55 55 | 67.3 70.1 | 12.3 15.1 | |
| BUILDING 3 (BELAKANG) | SCH | G F2 | SW | 55 55 | 73.6 74.3 | 18.6 19.3 | |
| BUILDING 3 (DEPAN) | SCH | G F2 | NE | 55 55 | 49.4 59.1 | --- 4.1 | |
| BUILDING 3 (KANAN) | SCH | G F2 | SE | 55 55 | 71.5 72.9 | 16.5 17.9 | |
| BUILDING 3 (KIRI) | SCH | G F2 | NW | 55 55 | 70.1 70.9 | 15.1 15.9 | |
| BUILDING 4 (BELAKANG) | SCH | G F2 | NW | 55 55 | 59.3 66.0 | 4.3 11.0 | |
| BUILDING 4 (DEPAN) | SCH | G F2 | SE | 55 55 | 57.6 65.4 | 2.6 10.4 | |
| BUILDING 4 (KANAN) | SCH | G F2 | SW | 55 55 | 69.0 72.0 | 14.0 17.0 | |
| BUILDING 4 (KIRI) | SCH | G F2 | NE | 55 55 | 46.2 54.0 | --- --- | |
| BUILDING 5 (BELAKANG) | SCH | G F2 | NE | 55 55 | 43.7 52.4 | --- --- | |
| BUILDING 5 (DEPAN) | SCH | G F2 | SW | 55 55 | 52.1 61.5 | --- 6.5 | |
| BUILDING 5 (KANAN) | SCH | G F2 | SE | 55 55 | 49.2 59.8 | --- 4.8 | |
| BUILDING 5 (KIRI) | SCH | G F2 | NW | 55 55 | 51.2 61.2 | --- 6.2 | |
| BUILDING 6 (BELAKANG) | SCH | G F2 | NW | 55 55 | 58.9 67.2 | 3.9 12.2 | |

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DAY 2 (WEEKDAY) - UNSTEDY
Assessed receiver levels
SINGLE CALCULATION

2

| Receiver | Usage | Fl | Dir | LrDN,lim dB(A) | LrDN dB(A) | LrDN_diff dB | |
|--------------------|-------|---------|-----|-------------------|---------------|-----------------|--|
| BUILDING 6 (DEPAN) | SCH | G F2 | SE | 55 55 | 58.2 66.1 | 3.2 11.1 | |
| BUILDING 6 (KANAN) | SCH | G F2 | SW | 55 55 | 67.6 72.0 | 12.6 17.0 | |
| BUILDING 6 (KIRI) | SCH | G F2 | NE | 55 55 | 44.2 49.5 | --- --- | |
| MASJID (BELAKANG) | SCH | G | SE | 55 | 75.9 | 20.9 | |
| MASJID (DEPAN) | SCH | G | NW | 55 | 59.4 | 4.4 | |
| MASJID (KANAN) | SCH | G | NE | 55 | 67.5 | 12.5 | |
| MASJID (KIRI) | SCH | G | S | 55 | 74.8 | 19.8 | |
| TITIK PENGUKURAN 1 | RDA | G | | 70 | 78.5 | 8.5 | |
| TITIK PENGUKURAN 2 | RDA | G | | 70 | 78.5 | 8.5 | |
| TITIK PENGUKURAN 3 | SCH | G | | 55 | 46.3 | --- | |
| TITIK PENGUKURAN 4 | SCH | G F2 | SW | 55 55 | 63.5 66.2 | 8.5 11.2 | |

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- Hari 3 (Weekday)

| | |
|--|----------|
| DAY 3 (WEEKDAY) - UNSTEDY Assessed receiver levels SINGLE CALCULATION | 2 |
|--|----------|

| Receiver | Usage | Fl | Dir | LrDN,lim dB(A) | LrDN dB(A) | LrDN, diff dB | |
|-----------------------|-------|---------|-----|-------------------|---------------|------------------|--|
| BUILDING 1 (BELAKANG) | SCH | G F2 | NE | 55 55 | 57.5 67.5 | 2.5 12.5 | |
| BUILDING 1 (DEPAN) | SCH | G F2 | SW | 55 55 | 53.0 62.9 | --- 7.9 | |
| BUILDING 1 (KANAN) | SCH | G F2 | SE | 55 55 | 74.5 75.2 | 19.5 20.2 | |
| BUILDING 1 (KIRI) | SCH | G F2 | NW | 55 55 | 50.6 61.2 | --- 6.2 | |
| BUILDING 2 (BELAKANG) | SCH | G F2 | SE | 55 55 | 73.9 74.7 | 18.9 19.7 | |
| BUILDING 2 (DEPAN) | SCH | G F2 | NW | 55 55 | 50.5 60.5 | --- 5.5 | |
| BUILDING 2 (KANAN) | SCH | G F2 | NE | 55 55 | 67.6 69.0 | 12.6 14.0 | |
| BUILDING 2 (KIRI) | SCH | G F2 | SW | 55 55 | 67.8 70.6 | 12.8 15.6 | |
| BUILDING 3 (BELAKANG) | SCH | G F2 | SW | 55 55 | 74.3 74.7 | 19.3 19.7 | |
| BUILDING 3 (DEPAN) | SCH | G F2 | NE | 55 55 | 50.4 60.1 | --- 5.1 | |
| BUILDING 3 (KANAN) | SCH | G F2 | SE | 55 55 | 72.7 73.3 | 17.7 18.3 | |
| BUILDING 3 (KIRI) | SCH | G F2 | NW | 55 55 | 70.5 71.3 | 15.5 16.3 | |
| BUILDING 4 (BELAKANG) | SCH | G F2 | NW | 55 55 | 62.2 66.5 | 7.2 11.5 | |
| BUILDING 4 (DEPAN) | SCH | G F2 | SE | 55 55 | 60.7 65.9 | 5.7 10.9 | |
| BUILDING 4 (KANAN) | SCH | G F2 | SW | 55 55 | 70.7 72.4 | 15.7 17.4 | |
| BUILDING 4 (KIRI) | SCH | G F2 | NE | 55 55 | 46.5 54.3 | --- --- | |
| BUILDING 5 (BELAKANG) | SCH | G F2 | NE | 55 55 | 43.6 51.6 | --- --- | |
| BUILDING 5 (DEPAN) | SCH | G F2 | SW | 55 55 | 52.4 62.2 | --- 7.2 | |
| BUILDING 5 (KANAN) | SCH | G F2 | SE | 55 55 | 49.1 59.6 | --- 4.6 | |
| BUILDING 5 (KIRI) | SCH | G F2 | NW | 55 55 | 52.1 61.9 | --- 6.9 | |
| BUILDING 6 (BELAKANG) | SCH | G F2 | NW | 55 55 | 60.7 67.8 | 5.7 12.8 | |

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DAY 3 (WEEKDAY) - UNSTEDY
Assessed receiver levels
SINGLE CALCULATION

2

| Receiver | Usage | Fl | Dir | LrDN,lim dB(A) | LrDN dB(A) | LrDN, diff dB | |
|--------------------|-------|----|-----|-------------------|---------------|------------------|--|
| BUILDING 6 (KANAN) | SCH | G | SW | 55 | 68.9 | 13.9 | |
| | | F2 | | 55 | 72.5 | 17.5 | |
| BUILDING 6 (KANAN) | SCH | G | SE | 55 | 59.2 | 4.2 | |
| | | F2 | | 55 | 66.6 | 11.6 | |
| BUILDING 6 (KIRI) | SCH | G | NE | 55 | 44.6 | --- | |
| | | F2 | | 55 | 50.1 | --- | |
| MASJID (BELAKANG) | SCH | G | SE | 55 | 75.7 | 20.7 | |
| MASJID (DEPAN) | SCH | G | NW | 55 | 58.9 | 3.9 | |
| MASJID (KANAN) | SCH | G | NE | 55 | 67.5 | 12.5 | |
| MASJID (KIRI) | SCH | G | SW | 55 | 75.1 | 20.1 | |
| TITIK PENGUKURAN 1 | RDA | G | | 70 | 78.9 | 8.9 | |
| TITIK PENGUKURAN 2 | RDA | G | | 70 | 77.5 | 7.5 | |
| TITIK PENGUKURAN 3 | RDA | G | | 70 | 46.7 | --- | |
| TITIK PENGUKURAN 4 | SCH | G | SW | 55 | 63.4 | 8.4 | |
| | | F2 | | 55 | 66.3 | 11.3 | |

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- Hari 4 (Weekend)

| DAY 4 (WEEKEND) - UNSTEDY | | | | | | | 2 |
|---------------------------|-------|---------|-----|------------------|--------------|----------------|---|
| Assessed receiver levels | | | | | | | |
| SINGLE CALCULATION | | | | | | | |
| Receiver | Usage | Fl | Dir | LrD,lim dB(A) | LrD dB(A) | LrD,diff dB | |
| BUILDING 1 (BELAKANG) | SCR | G F2 | NE | | 59.2 68.7 | | |
| BUILDING 1 (DEPAN) | SCR | G F2 | SW | | 53.1 63.1 | | |
| BUILDING 1 (KANAN) | SCR | G F2 | SE | | 75.7 76.3 | | |
| BUILDING 1 (KIRI) | SCR | G F2 | NW | | 50.7 61.0 | | |
| BUILDING 2 (BELAKANG) | SCR | G F2 | SE | | 75.2 75.8 | | |
| BUILDING 2 (DEPAN) | SCR | G F2 | NW | | 51.8 60.8 | | |
| BUILDING 2 (KANAN) | SCR | G F2 | NE | | 68.7 69.7 | | |
| BUILDING 2 (KIRI) | SCR | G F2 | SW | | 68.2 71.0 | | |
| BUILDING 3 (BELAKANG) | SCR | G F2 | SW | | 74.5 74.9 | | |
| BUILDING 3 (DEPAN) | SCR | G F2 | NE | | 49.8 59.7 | | |
| BUILDING 3 (KANAN) | SCR | G F2 | E | | 71.6 73.4 | | |
| BUILDING 3 (KIRI) | SCR | G F2 | NW | | 70.8 71.3 | | |
| BUILDING 4 (BELAKANG) | SCR | G F2 | NW | | 63.1 66.6 | | |
| BUILDING 4 (DEPAN) | SCR | G F2 | SE | | 59.9 65.9 | | |
| BUILDING 4 (KANAN) | SCR | G F2 | SW | | 70.6 72.4 | | |
| BUILDING 4 (KIRI) | SCR | G F2 | NE | | 47.0 54.9 | | |
| BUILDING 5 (BELAKANG) | SCR | G F2 | NE | | 44.7 54.6 | | |
| BUILDING 5 (DEPAN) | SCR | G F2 | SW | | 54.4 62.6 | | |
| BUILDING 5 (KANAN) | SCR | G F2 | SE | | 50.1 61.0 | | |
| BUILDING 5 (KIRI) | SCR | G F2 | NW | | 51.6 62.0 | | |
| BUILDING 6 (BELAKANG) | SCR | G F2 | NW | | 61.7 67.8 | | |
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DAY 4 (WEEKEND) - UNSTEDY
Assessed receiver levels
SINGLE CALCULATION

2

| Receiver | Usage | Fl | Dir | LrD Jim dB(A) | LrD dB(A) | LrD,diff dB | |
|--------------------|-------|---------|-----|------------------|--------------|----------------|--|
| BUILDING 6 (DEPAN) | SCR | G F2 | SE | | 60.4 66.7 | | |
| BUILDING 6 (KANAN) | SCR | G F2 | SW | | 69.7 72.5 | | |
| BUILDING 6 (KIRI) | SCR | G F2 | NE | | 44.9 50.6 | | |
| MASJID (BELAKANG) | SCH | G | SE | 55 | 76.8 | 21.8 | |
| MASJID (DEPAN) | SCH | G | NW | 55 | 60.0 | 5.0 | |
| MASJID (KANAN) | SCH | G | NE | 55 | 68.1 | 13.1 | |
| MASJID (KIRI) | SCH | G | S | 55 | 75.7 | 20.7 | |
| TITIK PENGUKURAN 1 | RDA | G | | 70 | 80.0 | 10.0 | |
| TITIK PENGUKURAN 2 | RDA | G | | 70 | 79.2 | 9.2 | |
| TITIK PENGUKURAN 3 | SCH | G | | 55 | 47.5 | --- | |
| TITIK PENGUKURAN 4 | SCH | G F2 | SW | 55 55 | 63.3 66.7 | 8.3 11.7 | |

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Lampiran 4. Dokumentasi Pengambilan Data



Gambar 1. Pengukuran titik 1 (Jalan A.P. Pettarani)



Gambar 2. Pengukuran titik 2 (Jalan Sultan Alauddin)





Gambar 3. Pengukuran titik 3 (Halaman Sekolah)



Gambar 4. Pengukuran titik 4 (Ruang Kelas)

