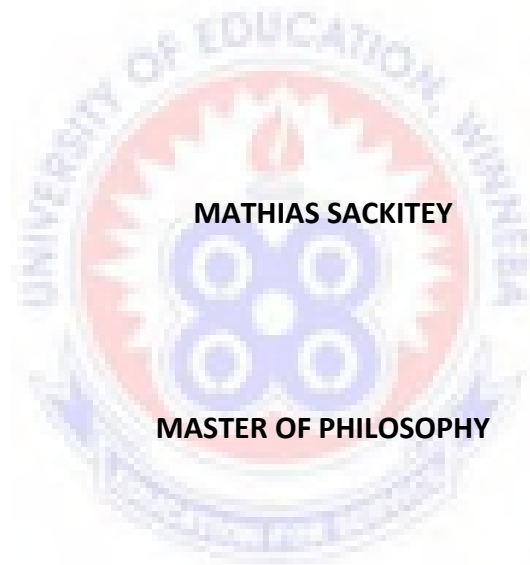


# UNIVERSITY OF EDUCATION, WINNEBA

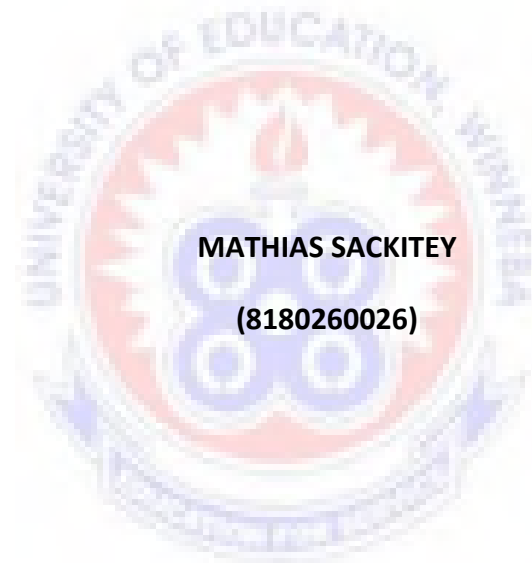
TOONU NHYEHY{E HO NTOTOHO W} AKUAPEM TWI NE ASANTE TWI NTAM



2020

## UNIVERSITY OF EDUCATION, WINNEBA

TOONU NHYEHY{E HO NTOTOHO W} AKUAPEM TWI NE ASANTE TWI NTAM



Nhwehw[mu dwumadi a efi Akan-Nzema, Faculty of Ghanaian Languages Education,  
de k]ma School of Graduate Studies, nam so ma manya abodin krataa

Master of Philosophy

(Ghanaian Language Studies)

afi University of Education, Winneba.

**KOTONIMMA, 2020**



## PAEMUKA

### OSUANI PAEMUKA

Me, Mathias Sackitey, pae mu ka sɛ, saa dwumadi yi yɛ nhwehwɛmu a m'ankasa na meberee me mogya ani yɛɛ. Sɛ mede nea nkurɔfo a mabobɔ wɔn din wɔ dwumadi yi mu no a aka to nkyɛn a, nea aka nyinaa yɛ m'ankasa me nsa ano adwuma. Obiara nyɛɛ emu fa anaa mua bi sɛ ɔde repe abodin wɔ baabiara.

NSA ANO DIN : .....

DA: .....

### ƆHWɛFO PAEMUKA

Mepae mu ka sɛ, me na mehwɛɛ dwumadi yi so, tenetenee no maa no yɛɛ nsiesie a ɛfata sɛnea Simpa Suapɔn akwankyere a wofa so de tentene tiisi dwumadi no te pɛpɛɛpɛ.

}hw[fo: MR. KWASI ADOMAKO

Nsa ano din: .....

Da: .....



## ASEDA

Nhwehw[mu a [te sei no gye nimde[, nyansa, aho]den ne bamm]. Eyi nyinaa y[ nne[ma Yehowa Nyankop]n amfa ankame me. Wei nti, m'aseda mu pepeankoma no k] ma no s[ ]domm me nimde[, nyansa ne aho]den. {ny[ n'daworomma a anka saa daeso yi y[[ ]kwa.

Meda m'awofo Owura Ransford Sackitey ne Owurayere Mercy Larweh Sackitey ase s[ w]anni me abor] w] me sukuuk] mu. Meda w]n ase s[ w]beree w]n mogya ani titii w]n mm]wer[ mu de ahw[ me ab[du saa mp[mp[nso yi. Meda w]n ase nso s[ w]de mpaeb] taa m'akyi. Onyankop]n mma w]n nkwa tenten. Merenyi me nua kumaa Charles Addai a ]w] Oguaa Suap]n (UCC) mu mfi mu esiane honam fam mmoa ahorow a ]no nso de ama me nti.

Aseda a edi h] k] ma Owura Kwasi Adomako a ]hw[[ me so ma midii dwuma yi. Meda no ase ne n'akwankyer[ pa ne nkuranhy[ ]de boaa me ma mede dii dwuma yi. {nam ne so na m'ani gyee s[ m[y[ f]n]l]gyi mu nhwehw[mu. Yehowa Nyankop]n nt] nhyira nsu ngu ne so.

Dr. Nana Anima Wiafe-Akenten ne Owurayere Justivieve Aba-Cobbah, me suap]n m'abrab] mu s[manhya. Mo nkuranhy[, osuahu, nimde[ ne afotus[m a mode pusuw me de[ adutwam. Mesr[ Onyankop]n nhyira ma mo. De[ moahwere w] me ho biara nso, ]nhy[ mo anan mu mm]ho.

Meda m'akyer[kyer[fo nyinaa a w]kyer[[ me ade ne titriw w]n a w]w] Akan-Nzema Aso[e a [w] Simpa Suap]n (UEW) mu ase. Prof. Charles Owu-Ewie, Owura Asamoah, Owura

Bright Amoah, Owura Lawrence Bosiwah ne Awuraa Regina Manu. Onyankop]n nhyira mo nyinaa.

Aseda a enni kabea nk] mma Dr. Regina Caesar w] n'afotus[m, nimde[ ne nkuranhy[ a ]de boaa me w] masafu adesua yi mu. Bere biara a ]ne me benya nkitahodi no, baabi a madi dwuma yi akodu ne nea a odi kan bisa. Eyi hy[[ me nkuran yiye. Onyankop]n nka ne ho.


Meda Owura Patrick Nana Wonkyi, Owura Samuel Amoh ne Owura Nicholas Obeng Agyekum ase w] w]n nkuranhy[, nimde[ ne w]n nkae a w]de b]] me bere ano bere ano s[nea [b[boa ama mawie dwumadi yi s[nea Suap]n yi nhyehy[e te. Onyankop]n nhyira w]n pii.

Me y]nkopa Newton Appiah-Kubi de, nea mew] ka kyer[ wo ara ne s[, "Siw ne kagya nni aseda". Onyankop]n mmoa wo pii w] nkuranhy[ ne ]d] a woda no adi akyer[ me. Ampa, y]nko bi sen onua. Meda m'ay]nkofo Cenita Davis, Narteh Peter, Ofori Ankoma Dorcas, Rahina Taiba, Sarfo Yeboah Sandra, Josceline Arthur, Agyemfra Jonas, Amoh Solomon, John Odoom, Adjei Joseph, Asante Stephen, Nkansah Deborah ne Owusu Joseph ase w] w]n nkuranhy[ ne mmoa a w]de boaa me. Onyankop]n nka w]n ho.

Esiane s[ yedi adwene d[ akyi a y[b[hwere Firaw nti, meda ad]fo ne abusuafo a me ho nti w]hweree biribiara ase. Nea m[ka ara ne s[, w]atow abodoo agu nsu no ani; daakye bi w]n nsa b[ka.

## EMU NS{M

### Kratafa

Paemuka	iii
Dinto	iv
Aseda	v
Emu ns[m	vii
Apono ne mfonini ahorow	xvi
Agyiraehy[de binom nkyer[ase	xxi
Ns[mfua binom asekyer[	xxiii
Nhy[nmu	xxx
 The logo of the University of Education, Winneba, is a circular emblem. It features a central gear-like design with four interlocking circles. The text 'UNIVERSITY OF EDUCATION WINNEBA' is written around the top inner edge of the circle. Below the gear, the motto 'FA A EDI KAN' is written in a banner, and 'NNIANIM' is written below that. The entire logo is rendered in a light blue and red color scheme.	
1.0 Nnianim	1
1.1 Nhwehw[mu no Nnyinaso	1
1.2 }haw no	7
1.3 Dwumadi yi Botae	8
1.4 Nhwehw[mu yi ho Ns[mmisa	9
1.5 Nhwehw[mu yi ho Mfaso	9
1.6 Nhwehw[mu yi ho haw	10
1.7 Baabi a Nhwehw[mu yi K]pem	11
1.8 Dwumadi no Nhyehy[e	11




1.9 }fa yi Muab]	12
------------------	----

## **}FA A {T} SO ABIEN**

### **ANIMDEFO BI ADWENKYER{ NE TI}RI A NHWEHW{MU NO GYINA SO**

2.0 Nnianim	14
2.1 Akan kasa	14
2.1.1 Akan selaboro	17
2..1.1.1 B selaboro Nhyehy[e	17
2.1.1.2 K Selaboro Nhyehy[e	18
2.1.1.3 KB Selaboro Nhyehy[e	19
2.1.2 Akan Toonu Nhyehy[e	20
2.1.3 Toonu Soafo w] Akan mu	20
2.2 Selaboro	21
2.3 Toonu ne Toonu Kasa	25
2.3.1 Ankorankor[ Toonu	26
2.3.2 Mforoe ne Nsianee Toonu	29
2.4 Famgyina ne Famk]	31
2.4.1 Famgyina w] Akan mu	32
2.4.2 Famk] w] Akan mu	36
2.5 Toonu Dwumadi w] Akan mu	38
2.5.1 Adey[ Kwan so	39

2.6 Toonu Sandi Mmara	40
2.6.1 Toonu Tene	41
2.6.1.1 Fam Toonu a [tene k] Nifa fam	41
2.6.1.2 Soro Toonu a [tene k] B[nkum so	42
2.6.2 Toonu Ananmuhy[	44
2.7 Toonu Polaraeseehyen	45
2.8 Toonu Disimileehyen	46
2.9 Ti]ri a Nhwehw[mu yi gyina so (}tos[gyem[ntal Ti]ri)	47
2.10 }fa yi Muab]	51
 <b>}FA A {T} SO ABIESA</b> <b>}KWAN A MEFAA SO Y{{ NHWEHW{MU NO</b>	
3.0 Nnianim	52
3.1 Nhwehw[mu no su	52
3.2 Nnipa a mepaw w]n de dii dwuma no	53
3.3 Ns[mmoano no ne ne tase	54
3.4 Akade ahorow mede dii dwuma	55
3.4.1 PRAAT	55
3.4.2 Afiri a mekyeree ns[m no guu so	57
3.5 Akwansr[	57
3.6 Ns[mmoano a mede y[[ akusteke mp[ns[mp[ns[mu no	58
3.7 }fa yi Muab]	59

## FA A {T} SO ANAN

### DWUMADI NO HO AKUSTEKE MP{NS{MP{NS{MU

4.0 Nea akusteke mp[ns[mp[ns[mu no kosii	60
4.1 Sentase nhyehy[e binom a w]n toonu nhyehy[e y[ p[	62
4.1.1(a). Edin kasasin a ne nhyehy[e y[ anim nkyer[mu “Saa” ne edin ne oyikyer[ (Akuapem akasafo).	62
4.1.1 (b) Edin kasasin a ne nhyehy[e y[ anim nkyer[mu “Saa” ne edin ne oyikyer[ (Asante akasafo).	65
4.1.1 (d) Edin kasasin a ne nhyehy[e y[ anim nkyer[mu “Saa” ne edin ne oyikyer[ (Akuapem ne Asante akasafo).	66
4.1.2 (a) Edin kasasin a [y[ ]dede nhyehy[e a ekita edin ne abusuab]din a ekita Soro Soro toonu nhyehy[e (Akuapem akasafo)	67
4.1.2 (b) Edin kasasin a [y[ ]dede nhyehy[e a ekita edin ne abusuab]din a ekita Soro Soro toonu nhyehy[e (Asante akasafo)	69
4.1.2 (d) Edin kasasin a [y[ ]dede nhyehy[e a ekita edin ne abusuab]din a ekita Soro Soro toonu nhyehy[e (Akuapem ne Asante akasafo)	70
4.1.3(a) }kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ ]dede “w” ne adey[ akyi din. (Akuapem akasafo)	72

- 4.1.3(b) }kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo  
ne adey[ a [kyer[ ]dede “w” ne adey[ akyi din. (Asante akasafo) 73
- 4.1.3(d) }kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo  
ne adey[ a [kyer[ ]dede “w” ne adey[ akyi din. (Akuapem ne Asante) 75
- 4.1.4 (a) }kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo  
ne adey[ a [kyer[ beae “w” ne adey[ akyi din a edi dwuma s[ beae  
kyer[fo (Akuapem akasafo) 76
- 4.1.4 (b) }kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo  
ne adey[ a [kyer[ beae “w” ne adey[ akyi din a edi dwuma s[ beae  
kyer[fo (Asante akasafo) 77
- 4.1.4 (c) }kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo  
ne adey[ a [kyer[ beae “w” ne adey[ akyi din a edi dwuma  
s[ beae kyer[fo (Akuapem ne Asante akasafo) 79
- 4.1.5 (a) }kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo  
ne adey[ a [kyer[ tebeae “hy” ne edin akyi sibe a ekita selaboro  
baako (Akuapem akasafo) 81
- 4.1.5 (b) }kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo  
ne adey[ a [kyer[ tebeae “hy” ne edin akyi sibe a ekita selaboro  
baako (Akuapem akasafo) 82

- 4.1.5 (d) }kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ tebeae “hy[” ne edin akyi sibe a ekita selaboro baako (Akuapem ne Asante akasafo). 84
- 4.1.6 (a) }kasamu tiawa a ekita edin as[m a edi dwuma s[ ]y[fo ne adey[ as[m a [w] ay[asie kabea mu (Akuapem akasafo). 85
- 4.1.6 (b) }kasamu tiawa a ekita edin as[m a edi dwuma s[ ]y[fo ne adey[ as[m a [w] ay[asie kabea mu (Asante akasafo). 87
- 4.1.6 (d) }kasamu tiawa a ekita edin as[m a edi dwuma s[ ]y[fo ne adey[ as[m a [w] ay[asie kabea mu (Akuapem ne Asante akasafo). 88
- 4.2 Sentase nhyehy[e binom a nsonsonoe da w]n toonu nhyehy[e mu 90
- 4.2.1 (a) }dede edin kasasin a ekita edinnsiananmu ne edin as[m a efi edin kuw (l) mu a ekita FS toonu (Akuapem akasafo). 90
- 4.2.1 (b) }dede edin kasasin a ekita edinnsiananmu ne edin as[m a efi edin kuw (l) mu a ekita FS toonu (Asante akasafo). 92
- 4.2.1 (d) }dede edin kasasin a ekita edinnsiananmu ne edin as[m a efi edin kuw (l) mu a ekita FS toonu (Akuapem ne Asante akasafo). 93
- 4.2.2 (a) }dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ SĴS (Akuapem akasafo) 95

4.2.2 (b) }dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ SĔS (Asante akasafo)	97
4.2.2 (d) }dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ SĔS (Akuapem ne Asante akasafo)	98
4.2.3 (a) }dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ SF (Akuapem akasafo).	100
4.2.3 (b) }dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ SF (Asante akasafo).	102
4.2.3 (d) }dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ SF (Akuapem ne Asante akasafo).	103
4.2.4 (a) Edinnsiananmu ne adey[ as[m a efi adey[ kuw l mu (Akuapem akasafo)	104
4.2.4 (b) Edinnsiananmu ne adey[ as[m a efi adey[ kuw l mu (Asante akasafo)	104
4.2.4 (d) Edinnsiananmu ne adey[ as[m a efi adey[ kuw l mu (Akuapem ne Asante akasafo)	107
4.2.5 (a) }hy[ kasamu a ekita edinnsiananmu, ]hy[ m]]fem ne edinnsiananmu a edi dwuma s[ ]y[tia (Akuapem akasafo).	108
4.2.5 (b) }hy[ kasamu a ekita edinnsiananmu, ]hy[ m]]fem ne edinnsiananmu a edi dwuma s[ ]y[tia (Asante akasafo).	110

4.2.5 (d) }hy[ kasamu a ekita edinnsiananmu, ]hy[ m]]fem ne edinnsiananmu a edi dwuma s[ ]y[tia (Akuapem ne Asante akasafo).	111
4.2.6 (a) Edinnsiananmu ne adey[ as[m a ekita selaboro abien anaa nea [boro saa a [w] ay[asie kabea mu ne edinnsiananmu a [y[ ]y[tia (Akuapem)	113
4.2.6 (b) Edinnnsinanmu ne adey[ as[m a ekita selaboro abien anaa nea [boro saa a [w] ay[asie kabea mu ne edinnsiananmu a [y[ ]y[tia (Asante)	114
4.2.6 (d) Edinnnsinanmu ne adey[ as[m a ekita selaboro abien anaa nea [boro saa a [w] ay[asie kabea mu ne edinnsiananmu a [y[ ]y[tia (Akuapem ne Asante akasafo)	116
4.2.7 (a) Edinnsiananmu ne ngoo adey[ as[m a [w] ay[asie kabea mu ne edin akyi sibe (Akuapem akasafo)	118
4.2.7 (b) Edinnsiananmu ne ngoo adey[ as[m a [w] ay[asie kabea mu ne edin akyi sibe (Akuapem akasafo)	119
4.2.7 (d) Edinnsiananmu ne ngoo adey[ as[m a [w] ay[asie kabea mu ne edin akyi sibe (Akuapem ne Asante akasafo)	120
4.3 }fa yi Muab]	121

### **}FA A {T} SO ANUM**

**SENTASE NYEHY{E AHOROW A NSONSONOE DA W}N TOONU NYEHY{E MU W}  
}TOS{GYEM{NTAL MU**

5.0 Nnianim	123
5.1 }dede edin kasasin a ekita edinnsiananmu ne edin as[m a efi edin kuw (I) mu a ekita FS toonu.	123
5.2 }dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nyehy[e y[ SFS	128
5.3 }dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nyehy[e y[ SF	131
5.4 }hy[ kasamu a ekita edinnsiananmu, ]hy[ m]]fem ne edinnsiananmu a edi dwuma s[ ]y[tia	136
5.5 Edinnnsiananmu ne adey[ as[m a ekita selaboro abien anaa nea [boro saa a [w] ay[asie kabea mu ne edinnsiananmu a [y[ ]y[tia.	140
5.6 Edinnsiananmu ne ngoo adey[ as[m a [w] ay[asie kabea mu ne edin akyi sibe	145
5.7 }fa yi muab]	149

**}FA A {T} SO NSIA**

**T}FAB}, AWIEI NE ADWENKYER{**



6.0 Nnianim	150
6.1 Nea efi dwumadi no mu bae	150
6.2 Nhwehw[mu no nyinaa muab]	152
6.3 Awiei	154
6.4 Adwenkyer[	155
MMOA NHOMA	156
NKEKAHO A	163
NKEKAHO B	172



**APON NE MFONINI AHOROW A {W} DWUMADI YI MU**

<b>Nnidiso</b>	<b>Kratafa</b>
}pon 1 Akuapem mmарima ne mmea peekye miini a w]de kaa /sàá mààm'í jí/	61
Mfonini 1 Akuapem mmарima ne mmeae peekye	61
}pon 2 Asante mmарima ne mmea peekye miini a w]de kaa /sàá mààm'í jí/	62
Mfonini 2 Asante mmарima ne mmea peekye	63
}pon 3 Akuapem ne Asante peekye miini a w]de kaa /sàá mààm'í jí/	64
Mfonini 3 Akuapem ne Asante akasafo peekye	64
}pon 4 Akuapem mmарima ne mmea peekye miini a w]de kaa /k <sup>w</sup> àès'í jí'í'í/	66
Mfonini 4 Akuapem mmарima ne mmeae peekye	66
}pon 5 Asante mmарima ne mmea peekye miini a w]de kaa as[m /k <sup>w</sup> àès'í jí'í'í/	67
Mfonini 5 Asante mmарima ne mmea peekye	67
}pon 6 Akuapem ne Asante peekye miini a w]de kaa /k <sup>w</sup> àès'í jí'í'í/	68
Mfonini 6 Akuapem ne Asante akasafo peekye	69
}pon 7 Akuapem mmарima ne mmea peekye a w]de kaa /mìw] s'íká/	70
Mfonini 7 Akuapem mmарima ne mmea peekye	71
}pon 8 Asante mmарima ne mmea peekye a w]de kaa /mìw] s'íká/	72

Mfonini 8	Asante mmarima ne mmea peekye	72
}pon 9	Akuapem ne Asante akasafo peekye a w]de kaa /mìw] sîká/	73
Mfonini 9	Akuapem ne Asante peekye	73
}pon 10	Akuapem mmea ne mmarima peekye a w]de kaa /]w] k <sup>w</sup> ùmásí/	75
Mfonini 10	Akuapem mmarima ne mmea peekye	75
}pon 11	Asante mmea ne mmarima peekye a w]de kaa /]w] k <sup>w</sup> ùmásí/	76
Mfonini 11	Asante mmarima ne mmea peekye	76
}pon 12	Akuapem ne Asante akasafo peekye a w]de kaa /]w] k <sup>w</sup> ùmásí/	77
Mfonini 12	Akuapem ne Asante akasafo peekye	78
}pon 13	Akuapem mmea ne mmarima peekye a w]de kaa ne /]e[ 'h <sup>w</sup> ]/	79
Mfonini 13	Akuapem mmarima ne mmea peekye	80
}pon 14	Asante mmea ne mmarima peekye a w]de kaa /]e[ h <sup>w</sup> ]/	81
Mfonini 14	Asante mmarima ne mmea peekye	81
}pon 15	Akuapem ne Asante peekye a w]de kaa /]e[ 'h <sup>w</sup> ]/	82
Mfonini 15	Akuapem ne Asante peekye	82
}pon 16	Akuapem akasafo peekye a w]de kaa /k <sup>w</sup> òfí át <sup>w</sup> ]/	84

Mfonini 16	Akuapem mmea ne mmарima peekye	84
}pon 17	Asante mmea ne mmарima peekye a w]de kaa /k <sup>w</sup> òfí át <sup>w</sup> ]/	85
Mfonini 17	Asante mmea ne mmарima peekye	85
}pon 18	Akuapem ne Asante akasafo no peekye a w]de kaa /k <sup>w</sup> òfí át <sup>w</sup> ]/	86
Mfonini 18	Akuapem ne Asante akasafo peekye	86
}pon 19	Akuapem mmарima ne mmea peekye a w]de kaa /mí # síká/	88
Mfonini 19	Akuapem mmарima ne mmea peekye	89
}pon 20	Asante mmарima ne mmea peekye a w]de kaa /mì # síká/	90
Mfonini 20	Asante mmарima ne mmea peekye	90
}pon 21	Akuapem ne Asante peekye a w]de kaa /mí # sika/	91
Mfonini 21	Akuapem ne Asante akasafo peekye	92
}pon 22	Akuapem mmарima ne mmea peekye a w]de kaa /mí nán <sup>1</sup> sá/	93
Mfonini 22	Akuapem mmарima ne mmea peekye	94
}pon 23	Asante mmарima ne mmea peekye a w]de kaa /mì nán <sup>1</sup> sá/	95
Mfonini 23	Asante mmарima ne mmea peekye	95
}pon 24	Akuapem ne Asante akasafo peekye a w]de kaa /mí nan <sup>1</sup> sa/	96

Mfonini 24	Akuapem ne Asante akasafo peekye	97
}pon 25	Akuapem mmarrima ne mmea peekye a w]de kaa /mí fótò/	99
Mfonini 25	Akuapem mmarrima ne mmea peekye	99
}pon 26	Asante mmarrima ne mmea peekye a w]de kaa /mì fótò/	100
Mfonini 26	Asante mmarrima ne mmea peekye	100
}pon 27	Akuapem ne Asante akasafo peekye a w]de kaa /mɪ foto/	101
Mfonini 27	Akuapem ne Asante akasafo peekye	101
}pon 28	Akuapem mmarrima ne mmea akasafo peekye a w]de kaa /mít]/	103
Mfonini 28	Akuapem mmarrima ne mmea peekye	103
}pon 29	Asantefo mmarrima ne mmea peekye a w]de kaa /mit]/	104
Mfonini 29	Asante mmarrima ne mmea peekye	104
}pon 30	Asante ne Akuapem akasafo no peekye a w]de kaa /mit]/	105
Mfonini 30	Akuapem ne Asante akasafo peekye	105
}pon 31	Akuapem mmarrima ne mmea peekye a w]de kaa /m <sup>w</sup> ónt <sup>w</sup> ] # n <sup>w</sup> ò/	107
Mfonini 31	Akuapem mmarrima ne mmea peekye	107
}pon 32	Asante mmea ne mmarrima peekye a w]de kaa /m <sup>w</sup> ónt <sup>w</sup> ] # !n <sup>w</sup> ó/	108

Mfonini 32 Asante mmarima ne mmea peekye	108
}pon 33 Akuapem ne Asante akasafo no peekye a w]de kaa /m <sup>w</sup> unt <sup>w</sup> ] # n <sup>w</sup> u/	109
Mfonini 33 Asante ne Akuapem akasafo no peekye	110
}pon 34 Akuapem mmea ne mmarrima peekye a w]de kaa /màs <sup>w</sup> ómá # nò/	111
Mfonini 34 Akuapem mmarrima ne mmea peekye	111
}pon 35 Asante mmarrima ne mmea peekye a w]de kaa /màs <sup>w</sup> ómá # 'nó/	112
Mfonini 35 Asante mmarrima ne mmea peekye	113
}pon 36 Akuapem ne Asante akasafo no peekye a w]de kaa /mas <sup>w</sup> oma # n <sup>w</sup> u/	114
Mfonini 36 Akuapem ne Asante akasafo peekye	114
}pon 37Akuapem mmarrima ne mmea peekye a w]de kaa /màṅk <sup>w</sup> ] # 'h <sup>w</sup> ]/	116
Mfonini 37 Akuapem mmarrima ne mmea peekye	116
}pon 38 Asante mmarrima ne mmea peekye a w]de kaa /màṅk <sup>w</sup> ] # 'h <sup>w</sup> ]/	117
Mfonini 38 Asante mmarrima ne mmea peekye	118
}pon 39 Akuapem ne Asante akasafo peekye a w]de kaa /maṅk <sup>w</sup> ] # 'h <sup>w</sup> ]/	119
Mfonini 39 Akuapem ne Asante akasafo peekye	119

### AGYIRAEHY{DE BINOM A {W} DWUMADI YI MU

'	-	Soro toonu
`	-	Fam toonu
—	-	Adantam toonu
F	-	Fam toonu
S	-	Soro toonu
A	-	Adantam toonu
[+Soro]	-	Soro baworo
[+Fam]	-	Fam baworo
B	-	Baworo
K	-	K]nsonante
KB	-	K]nsonante ne Baworo
BK	-	Baworo ne K]nsonante
Ak.	-	Akuapem
As.	-	Asante
[+sonorante]	-	Sonorante nnyigyei
!	-	Famgyina
B <sub>1</sub>	-	Baworo a edi kan

B <sub>2</sub>	-	Baworo a [t] so abien
σ	-	Selaboro
[+kons]	-	K]nsonante
[+vokaleke]	-	Mmaworo
KBK	-	K]nsonante Baworo K]nsonante
KBH	-	K]nsonante Baworo Hwenem
KBL	-	K]nsonante Baworo Lekwede
F0	-	Peekye aba
∞	-	}yera/ enni h]
S <sub>1</sub>	-	Soro toonu a edi kan
S <sub>2</sub>	-	Soro toonu a [t] so abien
'S	-	Famgyina Soro toonu
DAA	-	Daa kabea
SEE	-	Seesei kabea
Ed. Kas.	-	Edin kasasin
Ed. Kas <sub>1</sub>	-	Edin kasasin a edi kan
Ed. Kas <sub>2</sub>	-	Edin kasasin a [t] so abien
A <sub>1</sub>	-	As[mfua a edi kan
A <sub>2</sub>	-	As[mfua a [t] so abien
Hz	-	H[[se (Hertz)
#	-	M]]fem/ Ns[mfua ahye so



**NS{MFUA BINOM ASEKYER{**

- <sup>1</sup>Mora: {y[ selaboro mu nkyeky[mu a kasa binom mu no, [no na [y[ toonu  
soafo.
- <sup>2</sup>Selaboro: {y[ nhomeso ahorow a yenya no w] as[mfua mu anaa s[nea mframakuw a  
efi y[n ahrawa mu ba w] mmere a y[rekasa no twitwa gyinagyina.
- <sup>3</sup>Nukl]so: {no ne selaboro no akoma anaa nnyigyei a selaboro no gyina so p]tee. Saa  
nnyigyei yi tumi y[ mmaworo, hwenem nk]sonante ne annya-any[  
mmaworo.
- <sup>4</sup>Peekye: {y[ s[nea dw[[dw[[wa nkataso no wosow fa.
- <sup>5</sup>Tuon: {y[ s[nea dw[[dw[[wa nkataso no wosow a [de ntease foforo ba ns[mfua  
bi mu.

<sup>6</sup>)tos[gyem[ntal: {kyer[ s[ nnyigyei anaa selaboro biara gyina ne ho so fi ne toonu a [so  
no no ho esiane s[ toonu no nka nnyigyei no ho.

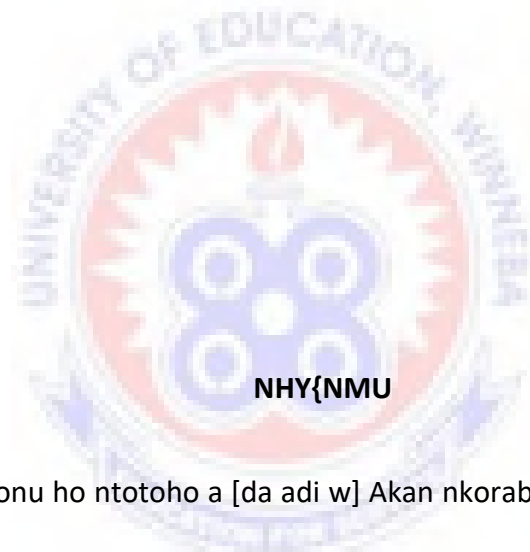
<sup>7</sup>Ti]ri: {y[ adwenemus[m a [nam mmara so kyer[kyer[ s[nea biribi te.

<sup>8</sup>Nsaw]so Nsensane: {y[ nsensan a [de nnyigyei bi ma ne toonu a [so no.

<sup>9</sup>Toonu Sandi Mmara: {y[ mmara bi a [kyer[ s[nea toonu bi tr[ ne su ma foforo w]  
ns[mfua nkitahodi mu.

<sup>10</sup>Akustese: {y[ f]n[tese nkorabata bi a [kyer[ s[nea ]kasa nnyigyei binom da w]n  
ho adi. Mp[n pii no w]taa de mfiri na [kyere nnyigyei yinom y[  
ho nhwehw[mu.

<sup>11</sup>PRAAT: {y[ k]mputa so dwumadi a [boa ma y[tumi y[ ]kasa nnyigyei mu  
mp[ns[mp[ns[mu.



Dwumadi yi hw[ toonu ho ntotoho a [da adi w] Akan nkorabata Akuapem Twi ne Asante Twi ntam. Dwumadi yi begyina sentase nhyehy[e so p]tee akyer[ sentase nhyehy[e binom a w]n toonu nhyehy[e y[ p[ ne w]n a nsonsonoe da w]n toonu nhyehy[e mu w] Akuapem ne Asante ntam w] akusteke kwan so. {no akyi no, ebegyina }tos[gyem[ntal Ti]ri so ap[ns[mp[ns[m sentase nhyehy[e ahorow a nsonsonoe da w]n toonu nhyehy[e mu no ahw[ f]n]l]gyi ne toonu mmara ahorow a [de nsonsonoe no ba no. Akusteke mp[ns[mp[ns[mu no gyina Akuapem mmea akasafo abiesa (3) ne mmarima akasafo abiesa (3) no peekye miini ahorow a w]de bob]] sentase nhyehy[e ahorow du-mmiensa (13) a metase de dii dwuma a mede totoo Asante mmea akasafo abiesa (3) ne mmarima

abiesa (3) no peekye miini a w]de b]] sentase nhyehy[e koro no ara so. Akasafo a mede w]n dii dwuma no mfe kyer[p[n no mfe aduonu kosi aduosia (20-60). Megyinaa sep[togrammo so de akasafo no peekye miini no kyer[[ sentase nhyehy[e ahorow a w]n toonu nhyehy[e y[ p[ ne nea nsonsonoe da w]n toonu nhyehy[e no mu w] kasa abien no ntam. Wei b[ma y[ahu sentase nhyehy[e[ ahorow binom a w]n toonu nhyehy[e y[ p[ ne w]n a nsonsonoe da w]n toonu nhyehy[e mu.}tos[gyem[ntal Ti]ri no nso gyina nsensane nsaw]so so kyer[ s[nea nsonsonoe no da adi. Ti]ri no bedi adanse s[, s[ edinnsianamu ne SFS, SF, ]hy[ adey[ ne KB edinnsianamu [na afei edinnsianamu ne ngoo adey[ ne KB edin akyi sibe a hyia a nsonsonoe da w]n toonu nhyehy[e mu w] kasa abien no ntam.



## ƆFA A EDI KAN

### DWUMADI NO NNIANIM

#### 1.0 Nnianim

Ɔfa a edi kan yi da dwumadi no nyinaa adi. Ɔfa yi b[kyer[ dwumadi no nhyehy[e asan akyer[ dwumadi no su. Saa Ɔfa yi mu ara no, m[da ]haw ko a [kanyann me ma menyaa ]p[ s[ medi saa dwuma yi adi. Ɔfa yi b[san akyer[ ns[mmisa ahorow p]tee a dwumadi yi gyina so. Ɔfa yi b[san ada botae a [taa dwumadi yi akyi na asan ada mfaso a yebenya afi dwumadi yi mu no adi. {b[san ada dwumadi no nhyehy[e adi na asan akyer[ ]haw a mehyiaa w] dwumadi no mu.

#### 1.1 Dwumadi yi nnyinaso

Toonu ho adesua y[ ade a anya nk]anim pa ara w] f[n]! ]gyi adesua mu. Hyman (2011) kyer[ s[, wiase mu ha kasahorow nyinaa mu ]ha mu nkyeky[mu aduonum (50%) y[ kasa a w]de toonu di dwuma a ne mu dodow no ara y[ Afrika ne Asia kasa. Ashby & Maidment (2005) nso foa eyi so. Yip (2002) nso kyer[ s[, wiase yi kasahorow nyinaa mu no, saa kasahorow a [de toonu di dwuma yi y[ kasahorow a w]n akasafo d]]so yiye pa ara. Saa kasahorow yi bi ne Mandarin Chinese kasa a ekita akasafo ]pepem 885, Yuroba kasa a [w] Nigeria a ekita akasafo ]pepem 20 ne Sweden kasa a ekita akasafo ]pepem 9. Hyman (2011) san kyer[ s[, kasa ahorow a w]de toonu di dwuma no mu dodow no ara y[ kasa a [w] Sahara Afrika fam, Anafo-Apuei Asia, Anafo-Mfimini Mexico ne Amazonia fam baabi. Yip (2002) mpo da

no adi s[, w] baabi te s[ Sahara Afrika, China, ne Am[rika Mfimfini fam baabi mpo de, [rekame ay[ s[ kasa a w]ka no w] h] nyinaa y[ kasa a w]de toonu di dwuma w] mu pa ara. Eyi da no ado s[ toonu di dwuma w] kasa ahorow pii no ara mu w] wiase yi mu ha. {rekame ay[ s[, Ghana a [w] Afrika ha kasa nyinaa no de toonu na edi dwuma anaas[ wogyina toonu so kyer[ ntease a [w] ns[mfua bi a w]n nhyehy[e y[ p[ mu.

Kasa biara w] nnyigyei ahorow a w]keka bom de y[ ns[mfua ma ntease ba. {nam saa nti ansa na saa as[mfua no benya ntease no, [y[ a [taa gyina s[nea w]b[h]yehy[ nnyigyei no p[p[[p[ so. Mmom no, as[mfua no ntease nnyina nnyigyei ahorow a w]akeka abom de ay[ as[mfua no nko ara so na mmom etumi gyina peekye a y[de b[ka saa as[mfua p]tee no so. Eyi gyina peekye no sorok] anaa famba so na [boa ma yetumi nya ntease a [te saa. Saa peekye dwumadi yi mu biako ne toonu a y[de b] selaboro ahorow a [w] ns[mfua ko no mu no. Kasa bi te s[ Bor]fo nso de setr[[se di dwuma de kyer[ sentase nsonsonoe a [da as[mfua p]tee bi ntam. Eyi kyer[ s[, setr[[se tumi sesa as[mfua biako fi as[mfuakuw biako mu k] as[mfuakuw foforo mu w] Bor]fo kasa mu.

Dolphyne (2006) kyer[ s[ ns[mfua binom ntease nnyina nk]nsonante ne mmaworo a w]keka bom de nya as[mfua no nko ara so w] kasa a [de toonu di dwuma mu na mmom peekye a yanya w] selaboro biara so w] as[mfua biara mu no tumi kyer[ as[mfua ko no ntease p]tee. Katamba (1989) nso foa eyi so s[, peekye nsakrae nko ara tumi kyer[ nsonsonoe a [da ns[mfua abien a w]n nkyer[wee y[ p[ ntease mu. Eyi da no adi s[, y[akeka nnyigyei bi abom abenya as[mfua no, ntease a [w] as[mfua no mu no gyina toonu a y[de

b[b] saa as[mfua no so. Toonu no ma as[mfua a ne kyer[w y[ p[ no tumi da ntease abien anaa nea [boro saa adi.

Nhwehw[mu ahorow binom te s[ Katamba (1989), Abakah (2005), Odden (2005), Dolphyne (2006), Zerbia, Downing & Kügler (2009), Hyman (2011), Ladefoged & Johnson (2011), Owusu (2015) ne nkae akyer[ mu s[, toonu y[ ]kwan a peekye sorok] anaa famba tumi di dwuma s[ foonim sesa ns[mfua bi ntease.

Yip (2002) kyer[ s[, nnyigyei biara k[k[ betumi anya peekye; s[ soro peekye anaas[ fam peekye a yenya no w] mmere a obi retea mu anaas[ obi rey[ anomaa su. W] saa kwan yi so no, peekye a ]kasafo no y[ no mfa ntease anaas[ nkyer[ase biara nto gua. S[ peekye a ]kasafo no y[ no de nnyigyei bi a [de ntease ba to gua a na [kyer[ s[ ]de toonu redi dwuma.

Dolphyne (2006) kyer[ s[, s[ yebenya soro peekye anaa fam peekye na aboa de toonu bi ato gua no gyinaa dw[dw[[wa no mpoe so. }toa so kyer[ peekye ase s[ [y[ s[nea y[n dw[dw[[wa no fa so po anaa [wosow fa. }k] so kyer[ mu s[, s[ dw[dw[[wa no wosow nt[m so a, [ma peekye no k] soro na afei nso s[ [po b]k]] nso a, [ma yenya fam peekye. Eyi nti s[ peekye no sorok] anaa famba no sesa as[mfua bi ntease a, na [kyer[ s[ toonu ay[ adwuma. Eyi ma [da adi s[ toonu gyina peekye so.

Kasa biara a [de toonu di dwuma biara ne ne peekye dodow a [de da ntease foforo adi. {no ne s[, kasa bi w] h] a, [de peekye abien p[ na edi dwuma. Ebi nso de abiesa, anan, anum na afei ebi mpo de asia na edi dwuma. Saa kasaharow yi mu binom ho nhw[so na edidi so yi.

**(1) Nea [de peekye abien di dwuma**

**Akan kasa (Dolphyne, 2006:66)**

- a. F (Fam) toonu – dà
- b. S (Soro) toonu – dá

Nhw[so (1) mu no, peekye ahorow abien p[ na [de ntease foforo ba as[mfua koro no ara mu. Nnyigyei a edi dwuma w] ns[mfua abien no mu no y[ p[ nanso peekye ahorow abien yi na [de nsonsonoe ba ns[mfua abien no ntease mu. Saa peekye abien a edi dwuma yi ne F peekye ne S peekye.

**(2) Nea [de peekye abiesa di dwuma**

**Dangme (Ceasar & Adi, 2014:39)**

- a. F (Fam) toonu  
má 'm]re'
- b. A (Adantam) toonu  
mā 'amane nsesaawa'
- c. S (soro toonu) toonu  
mà 'kurow'

Nhw[so a [w] (2) mu no da no adi s[, peekye ahorow abiesa na [de nkyer[ease foforo ba as[mfua koro no ara mu. Saa kasa yi mu no, peekye ahorow a w]de di dwuma no ne Fam peekye, Adantam peekye ne Soro peekye. Eyi nti [mfa ho s[ as[mfua no nnyigyei no y[ p[ no, peekye ahorow abiesa yi mu biara a wode b[ka no b[ma wo ntease foforo.

**(3) Nea [de peekye anan di dwuma**



**Chatino (Yaitepec) (Mexico) (McKaughan 1954: 27) w] Hyman (2011) mu**

a. Fam

kù 'abor]nomaa'

b. Fam Adantam

ku 'burobe'

c. Soro Adantam

kū 'meyam'

d. Soro

kú 'midi'

Nhw[so (3) mu no, saa kasa yi de peekye ahorow anan na [kyer[ nsonsonoe a [w] as[mfua biako nkyer[ase ahorow mu. Saa peekye ahorow yi ne Fam, Fam Adantam, Soro Adantam ne Soro. Eyi mu biara w] ntease soronko a [de ba.

Eyinom nyinaa y[ kasahorow binom a [de peekye ahorow di dwumade kyer[ ntease foforo. S[nea madi kan ab] so no, kasa binom w] h] a [de peekye ahorow anum na [da ntease foforo adi a ebi ne Shidong kasa a [w] China. Ghana ha nso, kasa bi te s[ Ewe ne Dangme nso y[ kasahorow bi a w]n nso de peekye ahorow a [boro abien di dwuma.

Akan kasa nkorabata ahorow no mu nyinaa de w]de peekye ahorow abien p[ na edi dwuma a [nonom ne soro peekye ne fam peekye (hw[ Abakah, 2005; Dolphyne, 2006 ne Owusu, 2015). Saa peekye ahorow abien yi a [y[ Soro ne Fam peekye yi na [de nsonsonoe ba as[mfua biako ntease mu.

S[ y[de ntease nsakrae a toonu de ba no to ky[n a, Dolphyne (2006) ne Abakah (2005) san da no adi s[ toonu san tumi sesa as[mfua bi as[mfuakuw a [w] mu no k] as[mfuakuw foforo mu.

S[ wuyi ns[mfua ntease mu nsonsonoe ne ns[mfuakuw mu nsonsonoe a toonu de ba no a, (Cahill 1985; Dolphyne & Kropp Dakubu 1988; Abakah 2000, 2005; Abakah & Koranteng 2007) w] Kügler (2017) mu no kyer[ s[, Akan kasa nkorabata no nyinaa mu nsonsonoe gyina nnyigyei ne toonu a w]de di dwuma no so. Eyi da no adi s[, [nny[ nnyigyei ahorow no nko ara na [de nsonsonoe ba Akan kasa no nkorabata no mu na mmom toonu a w]de di dwuma w]n ns[mfua bi mu anaa sentase nhyehy[e bi mu no nso tumi boa da nsonsonoe a [w] kasa nkorabata ahorow no mu no adi.

Schachter & Fromkin (1968), Marfo (2004), Dolphyne (2006) ne Akan toonu mu nhwehw[mufo pii ada no s[, bere a ns[mfua ahorow a ekita w]n toonu su dedaw no ne afoforo a w]n so kita w]n toonu su dedaw no ahyia w] m]f]l]gyi ne sentase nhyehy[e binom mu no, [nam toonu nkitahodi no nti, [tumi de nsakrae ahorow ba ns[mfua no mu bi toonu nhyehy[e mu. M]f]l]gyi nhyehy[e ahorow a toonu nkitahodi yi tumi k] so w] mu ne ns[mfuay[ nhyehy[e ahorow te s[ ns[mfua mm]ho, mmataho, nkakuho ne ade. Sentase nhyehy[e ahorow nso a eyi k] so wom ne kasasin ahorow, ]kasamufa ne mpo ]kasamu.

Saa toonu nsakrae yi san de nsonsonoe b[to Akan nkorabata ahorow no ntam. {no ne s[, saa kasa nkorabata yi mu no, [t] da bi na s[ ns[mfua binom di nhyiamu a, [sono kasa nkorabata yi mu biara ne s[nea ne toonu nhyehy[e no b[dane ay[. }fa bi nso w] h] a nsonsonoe biara mma mu.

{nam eyi so nti dwumadi yi botae titriw ne s[ [b[ma y[ahu sentase nhyehy[e a [ma Asante toonu nhyehy[e da nso fi Akuapem de no ho na asan akyer[ faako a w]n toonu nhyehy[e no san y[ p]. Y[ahu s[, s[ ns[mfua binom di nhyiamu b[y[ ]kasasin, ]kasamufa anaa ]kasamu a, yehu toonu nhyehy[e p[y[ anaa nsonsonoe bi w] mu w] Akan kasa nkorabata no mu. Ne saa nti [ho behia s[ y[y[ nhwehw[mu hu faako a toonu nsonsonoe ba w] mmere a ns[mfua binom adi nhyiamu [na afei nso mmeae ahorow a w]n toonu nhyehy[e no y[ p[ w] Akuapem ne Asante mu.

Hayes (2009) kyer[ s[, kwan a [boa ma yetumi susu hu peekye p]tee bi sorok] anaa ne famba no ne afiri a etumi kyer[ peekye bi gyanabea a y[de bedi dwuma. Roach (2002) nso da no adi s[ y[rey[ peekye ho adwuma a [w] akusteke f]n[tese mu no a, [ho behia s[ y[de mfiri mmom bedi dwuma sen s[ y[de y[n aso betie akyer[ k[k]. S[ [ba no saa a, etumi boa ma yehu peekye p]tee bi a [so selaboro bi w] as[mfua bi mu. Esiane s[ dwumadi yi nso fa toonu ho nti [ho behia s[ y[de saa mfiri ahorow a y[de susu peekye gyanabea no di dwuma. Ne saa nti, mede PRAAT a [y[ k]mputa so dwumadi bi a [boa ma yehu peekye a [da selaboro ahorow so na [b[y[ adansedi de ataa dwumadi yi akyi.

## **1.2 }haw no**

Animdefo ahorow pii na ayey[ nhwehw[mu afa toonu ho w] akwan foforo so w] kasahorow a w]de toonu di dwuma mu. Saa animdefo yi bi ne Goldsmith (1974), Fromkin (1978), Yip (2002), Gussenhoven (2004), Hyman (2009), Zerbian et al. (2009) Hyman (2011), Abakah (2005), Dolphyne (2006), Abakah (2015), Owusu (2015), Kügler (2017).

Nhwehw[mu no bi te s[, Abakah (2005), kyer[ toonu ho mmara a [w] Akan [na Dolphyne (2006) nso kyer[ Akan toonu nhyehy[e ahorow ne s[nea toonu da ne ho adi w] Asante, Akuapem ne Fante nkorabata a [w] Akan mu no mu sentase nhyehy[e ahorow mu. Abakah (2005) dwumadie no gyina toonu mmara no nko ara so a [ny[ ne botae ankasa ne s[ [rey[ ntotoho afa s[nea toonu ahorow no da w]n ho adi w] sentase nhyehy[e binom a [w] Akan kasa nkorabata no mu.

Dolphyne (2006) nso dwumadi no gyina nkyer[kyer[mu so daa ntotoho a [da adi w] sentase nhyehy[e binom mu w] Fante, Akuapem ne Asante mu. Wannina ti]ri anaa adwenemus[m biara so amfa anni ne dwuma no. Afei nso sentase nhyehy[e ahorow binom w] h] a yebetumi ay[ w]n toonu nhyehy[e mu mp[ns[mp[ns[mu a ampue w] ne dwumadi no mu.

Owusu (2015) nso gyinaa }tos[gyem[ntal Ti]ri so hw[[ s[nea toonu da ne ho adi w] Asante kasa no ]dede nhyehy[e mu. Saa dwumadi yi hw[[ ]dede nhyehy[e nko ara a anhw[ sentase nhyehy[e nkae binom. Afei nso dwumadi no gyina Asante kasa nko ara a anhw[ ne ntotoho w] Akan kasa nkorabata no nkae mu.

Esiane s[ toonu y[ kwan titriw biako a [de nsonsonoe ba kasa nkorabata bi mu nti s[nea (Cahill 1985; Dolphyne 1988; Dolphyne & Kropp Dakubu 1988; Abakah 2000, 2005; Abakah & Koranteng 2007) w] Kügler (2017) mu kyer[ no, [ho behia s[ y[b[y[ ntotoho ahw[ sentase nhyehy[e binom a w]n toonu nhyehy[e y[ p[ ne sentase nhyehy[e binom a nsonsonoe da w]n toonu nhyehy[e mu w] Akuapem ne Asante kasa mu w] }tos[gyem[ntal Ti]ri kwan so. Bio, esiane s[ dwumadi no y[ toonu ho nhwehw[mu nti, s[nea [b[y[ a yebehu

peekye p]tee bi a [da selaboro bi so yiye no, [s[ s[ y[de afiri bi di dwuma de di peekye anaa toonu nhyehy[e no ho adanse s[nea Roach (2002) ne Hayes (2009) kyer[ no. {no nti nhwehw[mu yi de PRAAT bedi saa dwuma yi.

### 1.3 Dwumadi yi Botae

Nhwehw[mu dwuma yi botae titriw ne s[ [b[hw[ ntotoho afa toonu nhyehy[e ho w] Asante kasa ne Akuapem kasa mu. Dwumadi no b[hw[ sentase nhyehy[e binom a koroy[ w] w]n toonu nhyehy[e mu w] Asante ne Akuapem mu ne sentase nhyehy[e binom nso a nsonsonoe da w]n toonu nhyehy[e mu Asante kasa ne Akuapem kasa mu. Dwumadi no b[gyina }tos[gy[m[ntal Ti]ri so ay[ mp[ns[mp[ns[mu no bi na afei [de k]mputa so dwumadi a [y[ PRAAT akyer[ s[nea toonu nhyehy[e ahorow no da w]n ho adi. Dwumadi no botae p]tee ni;

- i. {b[hw[ sentase nhyehy[e binom a koroy[ da w]n toonu nhyehy[e mu w] Akuapem ne Asante ntam.
- ii. {b[hw[ sentase nhyehy[e binom a nsonsonoe da w]n toonu nhyehy[e[ mu w] Akuapem ne Asante ntam.
- iii. {b[fa }tos[gyem[ntal ti]ri so ap[ns[mp[ns[m sentase nhyehy[e a nsonsonoe da w]n toonu nhyehy[e mu w] Akuapem ne Asante ntam.

### 1.4 Nhwehw[mu yi ho Ns[mmisa

Ns[mmisa ahorow a nhwehw[mu yi gyina so na edidi so yi. Saa ns[mmisa yi na [b[boa ama y[atmi adu dwumadi no botae no ho.

- i. Sentase nhyehy[e binom b[n na koroy[ da w]n toonu nhyehy[e mu w] Akuapem ne Asante ntam?
- ii. Sentase nhyehy[e binom b[n na nsonsonoe da w]n toonu nhyehy[e mu w] Asante ne Akuapem ntam?
- iii. }kwan b[n so na y[b[fa }tos[gyem[ntal ti]ri so ap[ns[mp[ns[m sentase nhyehy[e a nsonsonoe da w]n toonu nhyehy[e mu w] Akuapem ne Asante ntam?

### **1.5 Nhwehw[mu yi ho Mfaso**

Adwenkyer[ ahorow ne mp[ns[mp[ns[mu a nhwehw[mu yi b[da no adi no b[boa nhwehw[mufo ne asuafo a w]p[ s[ w]y[ nhwehw[mu fa akusteke ne t]n]l]gyi adesua a [w] f]n[tese ne f]n]l]gyi mu no mu.

Afei, nhwehw[mu yi b[boa ay[ nhwehw[mude ama w]n a w]p[ s[ wodi dwuma fa Akan toonu ho ne titriw Akuapem ne Asante w] k]mputa afiri kwan so.

{b[boa ama w]ahu sentase nhyehy[e ahorow a w]n toonu nhyehy[e no y[ p[ ne nea abirab] w] w]n toonu nhyehy[e ahorow no mu w] Akuapem kasa ne Asante kasa mu.

Dwumadi yi b[y[ fapem ama nhwehw[mufo ma w]ahw[ so adi dwuma a [te sei w] Akan kasa nkorabata a aka no bi mu ne afei kasa afoforo nso mu.

Dwumadi yi b[san aboa w]n a w]p[ s[ w]de k]mputa so dwumadi a [y[ PRAAT di f]n[tese ne f]n]l]gyi ho dwumadi ahorow w] Akan kasa mu.

Esiane s[ dwumadi yi gyina }tos[gyem[ntal Ti]ri so nti, [b[ba ab[ka nhwehw[mu ahorow a ebinom agyina }tos[gyem[ntal Ti]ri so ay[ afa Akan toonu nhyehy[e ho no ho.

### 1.6 Nhwehw[mu no mu haw

S[ nhwehw[mufo biara rey[ nhwehw[mu a, [y[ d[n ara a, ]haw mpa ne nhwehw[muy[ no mu. Ne saa nti merey[ nhwehw[mu yi no, mehyiaa ]haw kakra. }haw biako a mihyiae no fa mmere ho. {wom s[ mesr[[ kwan w] akasafo no h] ansa na mede w]n redi dwuma no de nanso esiane s[ bere a w]n ara w]ay[ krado na mede dii dwuma nti ebinom bere a w]de maa me no twee dwumadi no mp[ns[mp[ns[mu no k]] akyi kakra. Bio, ns[m a mekyere guu fon so no faa 'ma4' nnyigyei su (ma4 sound file) nanso na PRAAT a mede b[p[ns[mp[ns[m mu no ntumi mfa ]]dio su a [te saa no ny[ adwuma gye s[ mesesa mu y[ no 'wav. file' ansa na atumi ay[ adwuma. We nti mek]twee '*Switch file converter*' na mede sesaa nne ahorow no mmiako mmiako k]] '*wav. file*' mu. Wei nso gyee mmere pa ara. Nea etwa to no, esiane s[, baworo biara ne sonorante biara tumi y[ selaboro w] Akan mu nti, s[ mmaworo abien didi so, sonorante abien anaa baworo bi ne sonorante bi didi so a, sep[togram no nky[ w]n peekye nk]nt]noe no mu gye s[ wo ara. Wei nso hia atieye pa ara ansa na manya emu biara peekye aba. {mfa ho ne ]haw yi nyinaa no, mitumi p[[ ho akwan maa dwumadi no wiee p[y[.

### 1.7 Baabi a Nhwewh[mu yi K]pem

Toonu ho nhwewh[mu y[ nhwewh[mu a [tr[w yiye pa ara na [w] afaafa pii w] t]n]]gyi mu a wotumi y[ ho nhwewh[mu. S[nea madi kan akyer[ no, toonu kasa rey[ ad]]so aky[n kasa kasakuw biara w] wiase yi mu a Akan nso ka ho. Ne saa nti, dwumadi yi begyina sentase nhyehy[e ahorow binom so ay[ toonu mu ntotoho a [da adi w] Akuapem ne Asante kasa mu. Dwumadi no b[hw[ sentase nhyehy[e ahorow bi a w]n toonu nhyehy[e y[ p[ ne faako nso a abirab] w] w] saa Akan kasa nkorabata ahorow abien yi mu efis[ [da adi s[ bere a y[akeka ns[mfua binom abobom abenya sentase nhyehy[e binom no, [t] da bi a, w]n toonu nhyehy[e tumi y[ p[ anaa nsonsonoe w] mu. {no na akanyan dwumadi yi ma y[ahwe sentase nhyehy[e ahorow a [tete saa no.

Akan w] kasa nkorabata ahorow pii a yetumi gyina toonu so hu nsonsonoe a [da emu biara ne ]foforo ntam nanso nhwewh[mu yi begyina Akuapem Twi ne Asante Twi nko ara so. Amantam ahorow abien na w]de kasa yi twaa w]n furuma w] Ghana ha a [nonom ne Apuei Mantam ne Asante Mantam [nam saa nti emu akasafo no de kasa no di dwuma yiye. {nam eyi so nti saa amantam abien yi na megyina w]n so adi dwuma yi. M[paw nkurow abien afi amantam abien no mu na mede ay[ nhwewh[mu yi. Asante Mantam mu no, m[paw Kumase na Apuei Mantam mu nso mapaw Akr]p]n-Akuapem nkutoo.

### 1.8 Dwumadi no Nhyehy[e

Dwumadi yi kita afaafa nsia. }fa a edi kan no y[ dwumadi no nniamim a [kyer[ dwumadi no ani so. Saa }fa yi na [da ]haw a [da h] a [kanyann nhwewh[mu yi no adi. Saa }fa yi san kyer[ Akan kasa no ani so kakra. }fa yi san kyer[ dwumadi no botae, ns[mmisa a egyina so,



faako a dwumadi no k]pem, mfaso a dwumadi no de b[ba, ]haw a mihyiae ne s[nea m'ahyehy[ dwumadi no afa.

}fa a [t] so abien no nso da adwenkyer[ ahorow a abenfo binom ada no adi afa toonu dwumadi ho w] kasa mu. Saa ]fa yi mu no, mehw[[ ns[m ahorow binom a ab[nfo bi ada no adi a [fa toonu ho a [b[boa saa nhwehw[mu yi. }fa yi san kyer[ ti]ri a mede dwumadi yi begyina so mu.

}fa a [t] so abiesa no nso kyer[ akwan ahorow a mefaa so y[[ nhwehw[mu yi. }fa yi kyer[ faako a menyaa ns[mmoano ahorow a mede dii dwuma yi fii. {kyer[ nnipa dodow a mede w]n dii dwuma no ne w]n mfe ahorow a w]adi ne s[nti a mepaw saa nnipa no.

}fa a [t] so anan no ne dwumadi no mp]np]nso ankasa. Saa ]fa yi mu ne dwumadi no mp[ns[mp[ns[mu no. }fa yi mu no, m[y[ ns[m ahorow a magye afi nnipa a mepaw w]n de w]n dii dwuma yi no h] no a matwe agu afiri so no mu mp[ns[mp[ns[mu. Megyina eyi so de PRAAT akyer[ sentase nhyehy[e ahorow a w]n toonu nhyehy[e no y[ p[ ne nea nsonsonoe da w] toonu nhyehy[e mu w] Asante ne Akuapem Twi mu w] akusteke kwan so.

}fa a [t] so anum no kyer[ ]kwan a mede }tos[gyem[ntal ti]ri kyer[[ sentase nhyehy[e a nsonsonoe da w]n toonu nhyehy[e mu w] Akuapem ne Asante mu.

}fa a etwa to a [y[ nsia no nso b] dwumadi no nyinaa mua. Saa ]fa yi b[da me nsusui ne m'adwenkyer[ a mede reto gua adi na asan akyer[ nea efii nhwehw[mu no mu bae.

### 1.9 }fa yi Muab]

}fa yi na [kyer[ dwuma yi ani so. {no na [kyer[ atirimp]w a [taa dwumadi yi akyi. }fa yi san kyer[ adwenemus[m a dwumadi no gyina so. Ns[mmisa abien a nhwehw[mu yi gyina so p]tee no nso pue w] saa ]fa yi ara mu. {san da mfaso a ebefi nhwehw[mu no mu aba ne faako a nhwehw[mu no k]pem.



## **}FA A {T} SO ABIEN**

### **ANIMDEFO BI ADWENKYER{**

#### **2.0 Nnianim**

Saa ]fa yi da adwenkyer[ ahorow a animdefo binom de ato gua a [ne nhwehw[mu dwuma yi w] twaka. As[nti binom ase no, m[y[ ntotoho a nhwehw[mufo binom ada no adi w] as[nti koro no ara ho na magyina so ahw[ beae a w]n adwenkyer[ no y[ p[ ne b[ae a w]n adwenkyer[ no nk] b[nkoro mu. Ns[nti ahorow a m[p[ns[mp[ns[m mu w] ]fa yi mu no ne selaboro, toonu ne toonu kasa, ne adwenemus[m ahorow a [fa selaboro ho, toonu dwumadi, toonu-sandi mmara binom ne anto-toonu sandi mmara binom. Adwenkyer[ ahorow a animdefo binom ada no adi afa ns[nti ahorow a mabob] so yinom ho b[boa ay[ nnyinaso ama saa dwumadi yi. Ti]ri a nhwehw[mu yi gyina so nso ho nkyer[mu kakra bepue w] saa ]fa yi mu.

#### **2.1 Akan Kasa**

Akan kasa no y[ kasa a [fra Niger-Congo kasakuw baatan no mu bi. Niger-Congo kasakuw baatan yi ase no, y[w] kasakuw ahorow pii a Kwa kasakuw nso ka ho bi. Saa Kwa kasakuw yi ase na Akan kasa hy[ (hw[ Greenberg, 1949). Schachter & Fromkin (1968) kyer[ s[, kan no na wonni din p]tee bi a w]de fr[ kasa no. Esiane saa nti na w]de edin Twi (Tshi) s[nea Christaller (1875) de dii dwuma no na na [fr[ kasa no. Dolphyne (2006) kyer[ s[, afe 1950 yi mu ara na w]de edin Akan too saa kasa yi.

Dolphyne (2006) k] so kyer[ s[, Akan kita kasa nkorabata ahorow pii a ebi ne Asante, Akuapem, Fante, Assin, Denkyira, Bono, Wasa, Ahafo, Agona, Akyem, Kwahu, Buem. Schachter & Fromkin (1968) san kyer[ s[ kasa yi ne kasa a emu nnipa d]]so pa ara w] Ghana ha. Afei nso, [y[ kasa bi a emu kasa nkorabata no mu biara kasafo no te w]n ho w]n ho ase. S[ ebia, Asantefo te Fante kasa ase saa ara nso na Akuapemfo nso te Asante kasa ase ne nea [keka ho. Nnipakan a [k]] so 2010 mu dwumadi no mu amanne[b] no da no adi s[, Ghana ha nnipa dodow nyinaa mu 11,321,568 a egyina h] ma 47.5% na [y[ Akanfo. Eyi ma yehu s[ w]n a w]ka Akan kasa no d]]so ky[n kasa biara w] Ghana ha.

Agyekum (2006) ne Dolphyne (2006) kyer[ s[, w]ka Akan kasa yi w] Ghana anafo fam ne Cote d'Ivoire mpoano ne w]n a w]b[n kwae mu no. Dolphyne (2006) kyer[ s[ w]fr[ safo yi Akanfo na w]n amammer[ ne amanne ahorow di ns[. Esiane eyi nti [ma w]da nso fi mmusuakuw ahorow a [w] Abibiman mu no ho. W]toa so kyer[ mu s[, Ghana ha no, amantam asia mu na wotaa te saa kasa yi. {nonom ne Bono-Ahafo Mantam mu, Asante Mantam mu, Apuei Mantam, At]e Mantam ne Mfimini Mantam mu. {nam s[ [nn[ w]akyeky[ amantam no bi mu nti, yebetumi aka s[ amantam ahorow a w]ka kasa yi no

dodow y[ awotwe. Saa amantam yi ne Bono Apuei Mantam, Ahafo Mantam, Bono Mantam, At]e-Atifi Mantam, At]e Mantam, Apuei Mantam, Asante Mantam ne Mfimfini Mantam. S[ eyinom da nky[n a, w]ka Akan kasa w] Oti Mantam mu fa bi nso.

{wom s[ kasa yi w] nkorabata ahorow de, nanso [ny[ ne nyinaa na w]atintim agu krataa so anaas[ w]de di dwuma w] sukuu adesua mu. Akan kasa nkorabata a w]de di dwuma w] sukuu ahorow mu w] Ghana ha no ne Asante, Akuapem ne Fante. W]aky[ eyinom mu ak] atitriw abien mu a [nonom ne Twi ne Fante. Twi no ase no, yenya Asante Twi ne Akuapem Twi. Eyi mu biara ase nso, y[w] nkorabata ahorow nkumaa w] mu. S[ Fante sei no, y[w] nkorabata nkumaa bi te s[, Boka, Anee ne Iguae (hw[ Abakah 2012; Abakah, 2016) [na Akuapem nso y[w] Ofie, Kamena ne Akwamu (hw[ Akoto, 2016).

Esiane s[ dwumadi yi fa Asante Twi kasa ne Akuapem Twi kasa titiriw ho nti, nhwehw[mu yi mu fa dodow no ara begyina Asante Twi ne Akuapem Twi so. Agyekum (2017) kyer[ s[, Ghana kasa nsase nkyeky[mu mu no, Asantefo hy[ Bonofa ase. Akuapemfo nso, yehu w]n w] Asantefo nifa so w] Apuei fam.

Akuapem ne Asante y[ Akan kasa nkorabata a emu biara mu akasafo te w]n ho ase de nanso nsonsonoe ahorow w] w]n ns[mfua ahorow bi a w] de di dwuma mu na afei nso w]n nnyigyei ahorow mu. Ns[mfua kwan so no, ns[mfua ahorow bi a [w] Akuapem mu te s[ *'gyaburu'*, *'asanka'*, *'[p]]d'* ne *'ntorowa'* no Asantefo nso ka no *'bidie'*, *'ayowa'*, *'ahina'* ne *'nnyaadoa'*.

F]n]]gyi kwan so nso, nsonsonoe ahorow pii da kwan a kasa abien yi de nnyigyei di dwuma adi. Abakah (2012) kyer[ mu s[, ebia y[fa ns[mfua bi a w]n ab]se mu no, yenya hwenem

antiria k]r]nal nnyigyei /n/ a [ba ansa na [+soro] vowel nnyigyei aba te s[ /sini/ no a, [sono s[nea y[te no w] Akuapem mu na [sono s[nea y[te no w] Asante mu. Akuapem mu no, as[mfua no sesa y[ [siŋ]. Esiane s[ [+soro] vawol biara kita d]]sal fiikya w] ne fiikya gyiom[tri mu no nti, [+soro] vawol a [y[ /i/ no de saa ne [+soro] fiikya no to hwenem k]r]nal nnyigyei no so ma no sesa b[y[ d]]sal nnyigyei [ŋ] ansa na vawol no ayera. Asante kasa mu nso no, [nam s[ vawol /i/ no y[ postiria k]r]nal nnyigyei na hwenem k]nsonante no nso y[ antiria k]r]nal nnyigyei nti, /i/ no de ne postiria su a [y[ dodom dennen no to antiria hwenem k]nsonante /n/ a [y[ se-akyi no so sesa fi hwenem antiria /n/ b[y[ hwenem postiria [ŋ] ansa na vawol no ayera.

S[ wode eyinom nyinaa to nky[n a, saa kasa nkorabata abien yi san da nso w] toonu nhyehy[e mu. Bere a ns[mfua bi adi ahyiamu no, [sono s[nea yenya toonu nhyehy[e no w] Akuapem mu na [sono s[nea yenya no w] Asante mu. Fa baabi nso w] h] a, toonu nhyehy[e no tumi y[ p[ w] kasa nkorabata abien yi mu. {nam eyi so nti [ho behia s[ y[b[d] mu asuk] ay[ nhwehw[mu ahu faako a kasa abien yi toonu nhyehy[e y[ p[ ne faako a w]n toonu nhyehy[e no b] abira. {wom s[ nhwehw[mu bi te s[ Schachter & Fromkin (1968), Dolphyne (2006) ne ebinom abob] eyinom bi so de nanso s[nea [b[ma dwumadi a [te sei anya nk]anim no, [ho behia s[ y[b[y[ akusteke mp[ns[mp[ns[mu aka ho na ama y[anya nea dwumadi no de b[to gua mu adanse. Eyi na saa nhwehw[mu yi b[da no adi.

### 2.1.1 Akan Selaboro Nhyehy[e

Gussenhoven (2004) da no adi s[, toonu soafo betumi ay[ selaboro anaa mora. Ne nyinaa gyina kasa ko no so. Abakah (2005) nso da no adi s[, Akan kasa no nni selaboro a emu y[ duru. Ne saa nti mora ne selaboro no nyinaa y[ ade koro. {nam saa nti selaboro no ne toonu soafo no w] Akan mu. {siane s[ dwumadi yi fa toonu ho nti [ho behia s[ y[b[hw[ s[nea Akan selaboro nhyehy[e no te.

Dolphyne (2006) ne Abakah (2005) kyer[ s[ Akan w] selaboro nhyehy[e atitiriw abiesa a [nonom ne; B (Baworo), K (K]nsonante) ne KB (K]nsonante ne Baworo).

#### 2.1.1.1 B Selaboro Nhyehy[e

B no gyina h] ma selaboro a ekita baworo nko ara. Yenya eyi w] mmere a baworo no pue as[mfua bi anim a nnyigyei a [toa baworo no so no y[ k]nsonante. S[ ebia;

(i) **a.sa.w** (Ak.) / a.sa (As.)

(ii) **].k]** (As/Ak.)

{no da nky[n a, yetumi nya B selaboro no w] mmere a y[anya baworo ntoaso w] as[mfua bi mu. {ba no saa a, baworo a [t] so abien anaa nea [boro saa no nyinaa gyina w]n ho so s[ selaboro biako. S[ ebia;

(iii) **ti.e** (As./Ak)

(iv) **ti.e.i** (Ak..) / ti.e.e.[ (As.)

(v) **pi.i** (As./Ak)

### 2.1.1.2 K Selaboro Nhyehy[e

K no nso gyina h] ma selaboro a ekita k]nsonate nko ara. Saa nk]nsonante yi taa y[ hwenem k]nsonante ne anya-any[ baworo. Saa K selaboro yi taa pue w] as[mfua anim w] bere a k]nsonante foforo ta so. S[ ebia;

(4)

i. m.pa

ii. n.t]

iii. ŋ.k]

iv. ɱ.fa

Bio nso, y[san tumi nya saa K selaboro yi bi w] mmere a k]nsonante a [y[ [+sonorante] twa as[mfua bi to. Akan mu no, [da adi s[ k]nsonante ntwas[mfua to. Mmom, nea enti a [ma yanya [+sonorante] k]nsonante w] as[mfua yi awiei ne s[, baworo bi pue w] as[mfua no awiei w] n'ab]se mu a [nam kasahare so nti ayera. {nam eyi nti k]nsonante yi gyina s[ selaboro. S[ ebia;

(5)    **Ab]se**        **Akuapem**        **Asante**

i.	ti.mu	ti.m	ti.m
ii.	ja.mʊ	ja.m	ja.m
iii.	ha.wɔ	ha.w	ha.w



### 2.1.1.3 KB Selaboro Nhyehy[e

KB selaboro nhyehy[e no ne selaboro a y[taa hu no pa ara w] Akan mu. Selaboro nhyehy[e mu no, y[w] k]nsonante ne baworo a [toa so. Akan mu no, [rekame ay[ s[ ns[mfua ahorow a ekita selaboro biako w] Akan mu no nyinaa di KB selaboro nhyehy[e yi so. Selaboro nhyehy[e yi bi ho nhw[so na edi do yi:

(6)

i. fa

ii. da

iii. su

iv. bu

v. ki.ta (Ak.)/ ku.ra (As.)



(hw[ Abakah, 2006 ne Dolphyne, 2006).

### 2.1.2 Akan Toonu Nhyehy[e

Akan w] toonu ahorow abien a [y[ Soro ( ' ) ne Fam ( ' ) toonu a enkita peekye a edi aforosiane biara (Abakah, 2005; Dolphyne, 2006). Abakah (2005) ne Dolphyne (2006) toa so kyer[ mu s[, soro toonu no w] alotoonu a w]fr[ no Famgyina Soro Toonu. W]taa nya

saa famgyina soro toonu yi w] mmere a fam toonu bi a apue w] Soro toonu abien mfimfini. S[ [ba saa a, soro toonu a epue w] fam toonu no akyi no ne famgyina soro toonu no esiane s[, fam toonu no peekye no br[ soro toonu no peekye no ase ma nsonsonoe ba [ne soro toonu a edi kan no mu. Saa fam toonu a [de famgyina no ba no tumi y[ fam toonu a ne selaboro a [so no no w] h] anaa nea ne selaboro a [so no no ayera ama fam toonu no ay[ agyanka. S[ fam toonu a ne selaboro no ayera no br[ soro toonu a edi so no peekye no ase a ma no b[y[ famgyina soro toonu a, y[de ahy[nsode (!) si famgyina soro toonu no anim de kyer[ s[ saa soro toonu no y[ famgyina. Mmom no, s[ fam toonu a abr[ soro toonu no peekye no ase no w] h] de a, w]mfa ahy[nsode biara mma.

### 2.1.3 Toonu Soafo w] Akan mu

Toonu soafo y[ f]n]]gyi mu asuade a animdefo pii ay[ mu nhwehw[mu (Odden, 1995; Yip, 2002; Gussenhoven, 2004). Toonu dwumadi mu no, [ho behia s[ yebehu toonu soafo no. Gussenhoven (2004) kyer[ mu s[, toonu soafo no gyina ]kasa ko no so. {no ne s[, s[ ]kasa no w] selaboro a emu y[ duru a [ma yenya mora. S[ [ba saa de[ a, na mora no ne toonu soafo no w] saa ]kasa no mu. }kasa bi nso w] h] a, enni selaboro a emu y[ duru. S[ [k]ba saa a, yentumi nky[ selaboro biako mu nnya mora ahorow w] mu. Saa kwan yi so no, na [kyer[ s[ mora no ara ne selaboro no w] ]kasa no mu.

Abakah (2005) ne Abakah (2015) kyer[ s[ Akan ny[ kasa a ekura selaboro a emu y[ duru. {no ne s[ Akan mu no, s[ yenya baworo abien a [y[ B<sub>1</sub>B<sub>2</sub> a [toa so a emu biara y[ selaboro biako na afei nso yenni k]nsonante a etwa selaboro bi to. {no nti Akan nni BK selaboro

nhyehy[e. Bere biara a yebeɔnya BK selaboro nhyehy[e no, [y[ a emu biara gyina h] ma selaboro biako.

Abakah (2005) toa so s[, [nam s[ Akan nni selaboro a emu y[ duru w] ne selaboro nhyehy[e mu nti no, nsonsonoe biara nna mora ne selaboro ntam w] ]kasa no mu. {nam saa nti osi no pi s[, selaboro ne mora no nyinaa y[ p[ w] Akan kasa no mu. Ogyinaa emu kyer[[ s[, Akan mu no, selaboro no ne toonu soafo w] Akan mu. Selaboro nhyehy[e w] Akan mu a mab] so w] ]fa yi mu no da no adi s[, k]nsonante ahorow binom tumi gyina h] s[ selaboro w] mmere a mmaworo bi a epue w] w]n akyi no ayera anaas[ bere a epue w] as[mfua bi anim a k]nsonante foforo di so.

Saa nk]nsonante yi ne /l, r, m, n, w, ŋ, ɱ/. Saa nk]nsonante yi mu biara nso tumi y[ toonu soafo w] mmere a [redi dwuma s[ selaboro. Yebetumi agyina eyi so aka s[, Akan mu no, selaboro no ne toonu soafo.

## 2.2 Selaboro

Wiase mu ha kasa biara no selaboro di dwuma w] mu. Katamba (1989) kyer[ s[, ]kasa biara f]n]l]gyi nhyehy[e mu no, selaboro ( $\sigma$ ) no ne akoma a f]n]l]gyi nhyehy[e no gyina so. Selaboro yi na [kyer[ s[nea kasa biara y[ ne f]n]l]gyi nhyehy[e fa (Kager, 1999). {nam [no so tumi ma kasa bi f]n]l]gyi nhyehy[e da nso w] kasa foforo de ho.

Katamba (1989) toa so kyer[ mu s[, selaboro nni s[mantese anaa ]kasa mmara mu dwumadi biara. Eyi kyer[ s[, selaboro nni ntease biara. Na mmom [t] da bi a, selaboro bi a

[w] as[mfua bi mu [ne m]]fem bi a ekita ]kasa mmara anaa s[mantese dwumadi bi tumi y[ p]. Katamba (ibid.) toaa so kyer[[ mu s[, Bor]fo kasa mu no, yetumi nya selaboro [Λn-] w] as[mfua 'unusual' mu a saa selaboro yi ara ne m]]fem a [rekyer[ daabi/ngoo kabea y[ p]. ]san de kaa ho s[, y[w] selaboro bi te s[ [kæt] 'cat' a egyina h] ma as[mfua anaa [ne as[mfua y[ p[ [na afei nso selaboro binom te s[ [kæts] a egyina h] ma m]]fem abien ([no mu no, 'cat' no gyina h] ma edin as[m a [y[ ahosodi m]]fem no [na '-s' no nso gyina h] ma dodow kabea kyer[fo a [y[ nsiakyiri mmataho m]]fem) ne afei nso [mΛn] ne [ki] a [y[ selaboro abien nso ne abien no nyinaa gyina h] ma ma m]]fem biako anaa as[mfua biako. Nkyer[kyer[mu yi ma yehu s[, selaboro ny[ m]]fem anaas[ as[mfua na afei nso ntease biara nni mu nanso [t] da bi a, etumi ne m]]fem anaas[ as[mfua bi y[ p].

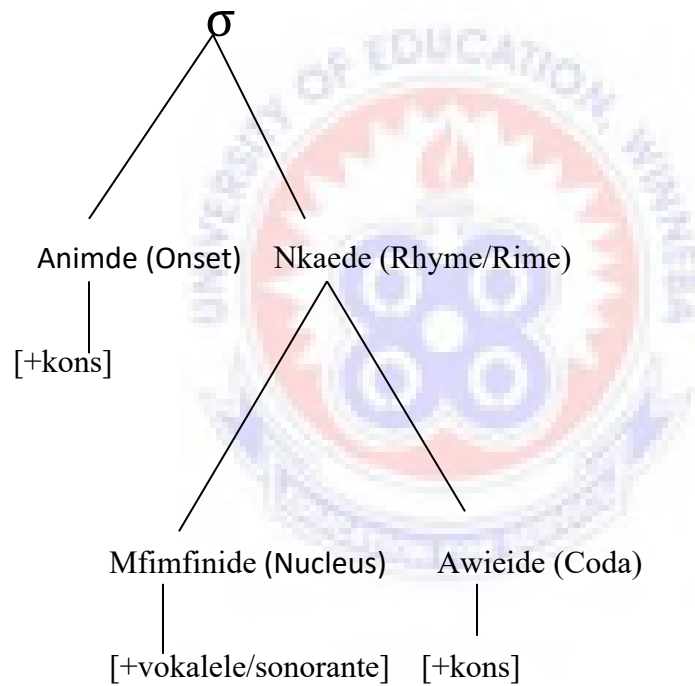
Yule (1996) nso kyer[ s[, [w] s[ selaboro biara nya baworo anaa nnyigyei bi a [te s[ baworo (s[ ebia selaboro nk]nsonante) w] mu. }toaa so kyer[[ mu s[, selaboro nhyehy[e a kasa biara w] anaas[ [da adi w] kasa biara mu ne nea k]nsonante ne baworo toa w]n ho so a y[hy[ no nso s[ KB no.

}kyer[[ s[, selaboro nhyehy[e mu no, y[w] ]ns[te ([no mu no y[nya k]nsonante biako anaa nea [boro saa) ne raemo. Raemo no nso kita baworo a [y[ nukl]so ne k]nsonante a epue w] nukl]so no akyi a y[fr[ no koda. Yule (1996) nkyer[mu yi ma yehu s[, nukl]so no ne selaboro no koma anaa [no na selaboro no gyina so. Esiane eyi nti, nukl]so no y[ ]hy[ w] selaboro biara mu. Kasa biara tumi nya ]ns[te ne nukl]so anaa nukl]so nko ara w] ne selaboro nhyehy[e mu nanso [ny[ kasa biara na [w] koda w] ne selaboro nhyehy[e mu. Eyi kyer[ s[, koda no ny[ ]hy[ s[nea nukl]so no te[ no w] ]kasa biara mu. Kasa a [de koda no di

dwuma no y[ ntom selaboro kasa [na nea [mfa koda nni dwuma no nso y[ mmuei selaboro kasa.

Katamba (1989) kyer[ s[, Kiparsky (1979), Halle & Vergnaud (1980), Steriade (1982) ne Harris (1983) agyina selaboro nhyehy[e yi so ahyehy[ selaboro afaafa yi nnidiso nnidiso w] f]n]l]gyi ti]ri mu. Sei na nhyehy[e no te.

**(7) Selaboro su**



(hw[ Katamba, 1989:154)

Nkyer[mu a [w] soro ha yi ma yehu s[ s[nea Katamba (1989) ne Kager (1999) kyer[ no, selaboro y[ f]n]l]gyi dwumadi. Laver (1994) nso kyer[ mu s[, selaboro y[ ade bi a yebetumi ahw[ no w] f]n[t]se ne f]n]l]gyi kwan nyinaa so. Eyi da no adi s[, selaboro nkyer[mu no betumi agyina f]n]l]gyi anaa f]n[t]ese so. }toa so kyer[ mu s[, [wom s[ yebetumi ahw[

selaboro w] lengwesteke afa abien yi mu de[ nanso [y[ den s[ y[b[p[ns[mp[ns[m selaboro mu w] f]n[tese kwan so. Esiane eyi nti, ay[ den s[ yebenya selaboro ho nkyer[mu p]tee bi a w]agye atom. Ne saa nti animdefo binom ahw[ no w] f]n[tese kwan so a [k] so w] kasa biara mu ne nea egyina ]kasa bi nnyigyei nhyehy[e so a [y[ f]n]l]gyi kwan so.

Laver (1994) kyer[ s[, esiane s[ selaboro na [y[ f]n]l]gyi nhyehy[e a edi h] a [boro nnyigyei anaa mfoonim so nti, [y[ mmer[w s[ y[b[hw[ selaboro w] f]n]l]gyi kwan so. Laver (ibid.) kyer[ selaboro mu s[ [y[ nhyehy[e kuntann bi a ekita mfimfinide (nukl]so) ne nnyigyei binom a epue mfimfinide no ahye so (s[ [y[ anim anaa akyi). Mfimfinide no taa y[ mmaworo [nna nea epue w] ahye no so no y[ nk]nsonante.

Roach (2002) nso kyer[[ selaboro ase w] f]n[tese kwan so s[, nnyigyeiy[ mu no, selaboro no fi ase fi ntom kwan so a [no y[ nk]nsonante k] mmuei kwan so a [no y[ baworo na afei asan aba ntom so a [no nso y[ k]nsonante. Roach nkyer[mu yi ne ntom selaboro y[ p[ esiane s[ yenza k]nsonante w] baworo no akyi a [y[ koda. Saa nkyer[mu yi ne Abakah (2005) ne Dolphyne (2006) nhyehy[e a w]de maa Akan selaboro nhyehy[e no b] abira esiane s[ Akan mu no Abakah (2005) ne Dolphyne (2006) kyer[ s[, nk]nsonante a epue w] nea yesuw s[ [y[ selaboro bi awiei (sonorante) no nyinaa y[ selaboro foforo. Eyi nti no, Akan nni KBK (KBH/ KBL).

Stetson (1951) nso gyina 'ky[sete p]]so ti]ri' anaa 'moto ti]ri' so kyer[[ s[, selaboro y[ mu no, mframa a efi y[n ahrawa mu ba no ba akuwakuw. }kyer[[ mu s[, selaboro y[ mu no, mframa no twitwa gyinagyina ma y[n mframakuw ahorow a mframakuw biara ma y[n selaboro biako. }toa so kyer[ mu s[, s[ mframa a w]de y[ baworo bi y[ tiawa anaa [y[ tenten

a, [nam s[ y[de mframakuw biako na [y[ nti ne nyinaa ma y[n selaboro biako. Eyi nso ne Dolphyne (2006) nkyer[mu a ]de mae se Akan mu no, s[ mmaworo abien anaa nea [boro saa to so a, baworo biara y[ selaboro biako no b] abira. S[nti ne s[, baworo ntoaso y[ anaa ne ka mu no, mframa no mma akuwakuw na mmom [ba tee s[nea Stetson (1951) ti]ri no kyer[ no. S[ y[regyina Stetson (1951) adwenemus[m yi so de a [nne[ na [kyer[ s[ Akan w] KBB selaboro nhyehy[e. Abakah (2005) ne Dolphyne (2006) nso kyer[ s[ yenni KBB selaboro nhyehy[e w] Akan mu.

Khalifa (2018) kyer[ s[, ]kwan biako a animdefo bi ahw[ selaboro nkyer[mu y[ akusteke kwan so anaa s[nea y[te no so a w]ato no din 'Pr]min[nse Ti]ri'. Saa adwenemus[m yi kyer[ s[ selaboro dodow bi a [w] as[mfua bi mu no gyina nnyigyei dodow a ano y[ den w] mu no so. Eyi kyer[ s[, nnyigyei dodow a ano y[ den no na yegyina so kyer[ selaboro no dodow. S[ y[de eyi toto Akan selaboro nhyehy[e no ho a, yehu s[ edi saa adwenemus[m yi so esiane s[ Akan mu no, s[ yanya as[mfua [b]]] anaa [fam] a, esiane s[ []] a ne [m] a etwa ns[mfua abien no to no nyinaa ano y[ den nti, emu biara ma y[n selaboro foforo. Yebetumi agyina eyi so aka s[, Abakah (2005) ne Dolphyne (2006) nkyeky[mu a w]de maa Akan selaboro nhyehy[e no hyia.

### **2.3 Toonu ne Toonu Kasa**

F]n[tese su titiriw a toonu kita no gyina peekye so. As[mfua 'toonuu' no gyina s[nea w]de peekye di dwuma so w] ]kasa bi mu (Gandour, 1978). Peekye nso kyer[ mp[n dodow anaa s[nea y[rey[ nnyigyei bi a y[n dw[[dw[[wa no wosow fa. S[ [wosow nt[m a [ma y[n fa peekye na afei nso [wosow b]k]] nso a [ma y[n fam peekye. Gandour (1978) san kyer[ s[

mp[n dodow a dw[[dw[[wa no wosow a [da soro anaa fam peekye adi no ma y[n FO (fundamental frequency) no.

Eyi kyer[ s[ ansa na yebenya toonu anaas[ y[b[ka s[ kasa bi y[ toonu kasa no na egyina peekye dwumadi bi so. Peekye dwumadi nso gu mu ahorow abien. S[ [rekyer[ ntease a [w] as[mfua bi mu anaas[ [resesa as[mfua bi as[mfuakuw afi as[mfuakuw biako mu de ak] foforo mu. S[ peekye dwumadi no kyer[ ntease foforo a, [de toonu na [ba nanso s[ [sesa as[mfuakuw no fi as[mfuakuw biako mu k ]foforo mu de a [de setr[[se na [ba. Eyi nti s[ kasa bi de peekye kyer[ ntease foforo [w] as[mfua bi mu a, na saa kasa no y[ toonu kasa.

Clark & Yallop (1995) kyer[ s[ wiase mu ha kasa dodow no ara y[ toonu kasa s[nea madi kan aka no. W]toa so s[ saa kasahorow yi mu dodow no ara y[ kasa a w]ka no w] Asia apuei fam te s[, Chinese, Vietnamese, Burmese ne Thai. W]de kaa ho s[, toonu kasa ahorow no bi nso y[ Afrika kasahorow, Am[rika kasahorow ne Papua New Guinea. Akan nso a [y[ Afrika kasa no mu bi no nso y[ toonu kasa no mu bi.

Pike (1948) aky[ toonu kasa mu ak] akuw ahorow abien mu. }kyer[ s[ saa toonu kasa ahorow abien yi ne ankorankor[ toonu kasa (*register/ level tone language*) ne ankorankor[ toonu abien anaa nea [boro saa a [ka bom ma y[n toonu biako (afrosiane toonu) (*contour tone*).

### **2.3.1 Ankorankor[ Toonu**

Pike (1948) kyer[ s[ ankorankor[ toonu y[ toonu a ne peekye no nsane mforo anaa mforo nsane. Saa toonu yi mfa toonu ahorow abien anaa nea [boro saa nsoa selaboro biako.



Ankorankor[ toonu kasa mu no, selaboro biara so ankorankor[ toonu. Clark & Yallop (1995) kyer[ s[ saa toonu kasa yi w] toonu anaa peekye dodow p]tee bi a [de di dwuma. Eyi tumi y[ toonu biako, abien, abiesa anaa anan. }toa so kyer[ mu s[ saa toonu yi dodow pem anan p[ a entumi mmoro saa. Nanso Pike (1948) nso kyer[ s[ peekye dodow a wogye tom w] ankorankor[ toonu kasa mu no dodow pem anan p[ de na mmom kasa ahorow binom w] h] a w]n peekye no dodow boro anan nanso saa dodow no nyinaa mfa ntease foforo biara nhy[ da nto gua. Eyi nti yebetumi agyina [no so atew w]n dodow no so s[nea [b[y[ a [b[da ntease soronko bi adi.

S[ kasa bi de peekye ahorow abien na edi dwuma dwuma a, saa kasa no mu no, yebenya S peekye ne F peekye. Eyi kyer[ s[, s[ selaboro bi any[ [+Soro] a na [y[ [+Fam]. {no so na wogyina da ntease foforo adi w] as[mfua koro bi mu. S[ kasa no de ankorankor[ toonu abiesa nso na edi dwuma a, wonya S peekye, A peekye ne F peekye. Kasa a [te sei no nso gyina peekye ahorow abiesa yi so kyer[ nsonsonoe a [da as[mfua koro no ara mu. S[ kasa no nso de peekye anan na edi dwuma a, wonya soro, adantam, n]]m (*norm*) ne fam peekye. Pike (1948) kyer[ s[, nsonsonoe k[se da kasa a [de peekye abien di dwuma no peekye ahorow no mu sen nea [de peekye ahorow anan di dwuma no. Pike (*idem*) de pon a edi so yi gyinaa h] kyer[[ peekye ahorow no mu a ebiara gyina h] ma kasa a w]de saa peekye dodow no di dwuma.

**1. Peekye ahorow no gynabere ne s[nea [da adi w] kasahorow mu**

A

B

D

i. Soro \_\_\_\_\_ i. Soro \_\_\_\_\_

i. Soro \_\_\_\_\_

ii. Adantam \_\_\_\_\_

ii. Adantam \_\_\_\_\_

iii. N]]m \_\_\_\_\_

ii. Fam \_\_\_\_\_

iii. Fam \_\_\_\_\_

iv. Fam \_\_\_\_\_

(hw[ Pike, 1948: 6)

Pono no ma yehu s[, nsononsone a peekye ahorow abien no de ba ba no mu y[ k[se sen nea peekye anan no de ba no. {no ma yehu s[, peekye no mu no, s[ toonu no any[ soro a na [y[ fam nanso w] peekye anan mu de, A no ne S no peekye no rey[ as[ saa ara nso na N (n]]m) no nso ne A nso rey[ as[. Eyi da no adi s[, nsonsonoe a [da peekye ahorow no mu nnidiso nnidiso so no mu nsonsonoe no sua.

Abakah (2005) ne Dolphyne (2006) da no adi s[ Akan y[ kasa a [de soro ne fam peekye nko ara na [kyer[ ntease foforo a [w] as[mfua bi mu. Eyi ma Akan y[ kasa a [de ankorankor[ toonu di dwuma no mu bi.

Dolphyne (2006) kyer[ s[, S toonu no y[ toonu a ne peekye w] soro. Eyi kyer[ s[ dw[[dw[[wa no wosow nt[m w] mmere a ]kasafo bi de saa toonu no rey[ nnyigyei anaa selaboro bi.

Dolphyne (idem) de toaa so s[ [t] mmere bi a soro toonu no peekye no so tumi tew. Eyi tumi si w] mmere a selaboro a etwa to w] as[mmisa a ehia 'yiw anaa daabi' mmuae no so soro toonu. S[ ]kasafo bi rebisa as[m a [te saa a, mp[n pii no soro toonu a [so selaboro a etwa to no peekye no so tew.

Kügler (2017) kyer[ s[, as[nka ne as[mmisa kasamu a [nni as[mmisade nhyehy[e nyinaa y[ p[ nanso nsonsonoe a [da ne abien no ntam ne s[, as[mmisa mu no, soro toonu a etwa to no peekye anaa F0 no so tew na afei baworo a etwa to no nya ntwemu. Eyi mpo tumi ma fam toonu bi a epue w] ]kasamu no anim baabi no F0 no tumi w] soro mpo sen S toonu a etwa ]kasamu no to. W]fr[ saa soro toonu a [so atew yi 'famgyina' soro toonu. Stewart (1965) kyer[ mu s[ mp[n pii no, saa famgyina toonu yi taa ba w] mmere a SORO-FAM-SORO toonu nhyehy[e a F toonu a [hy[ mfimfini no fam peekye no nya nsunsuanso w] S peekye a [toa so no so ma ne peekye no so tew.

Schachter & Fromkin (1968:110) de ]kasasin a edi so yi da saa nhw[so yi adi.

mí + } + bú —————> mí + ǫ + bú .

Schachter & Fromkin (1968) kyer[ mu s[, esiane s[ mfimfini selaboro no so F toonu na afei mpo ne ka mu no ayera no, saa F toonu a agyaw no peekye no tew soro toonu a [toa ne so peekye no so ma [b[y[ famgyina. {ba no saa a, S toonu a edi kan no peekye no w] soro sen S peekye a [t] so abien no.

Schachter & Fromkin (idem) san kyer[ s[, s[ soro toonu bi peekye so tew a, [mm[y[ S toonu bio na mmom Adantam toonu. S[ eyi te saa de a na [kyer[ s[, Akan w] ankorankor[ toonu ahorow abiesa a [nonom ne SORO, ADANTAM ne FAM. Dolphyne (2006) nso kyer[ s[, [y[ abien s[nea madi kan ab] so no.

Dolphyne (2006) nkyer[mu a ]de mae ne s[, kasahorow a w]w] A toonu no nyinaa no, w]n A toonu no pue w] S toonu akyi p[[ nanso [nte saa w] Akan mu. Akan mu no, y[taa nya saa

nea Schachter & Fromkin fr[ no A toonu yi w] F toonu akyi mmom. {nam saa nti Akan nni A toonu na mmom saa A toonu no y[ famgyina soro toonu a [no betumi ay[ soro toonu no alotoonu. Dwumadi yi begyina Dolphyne (2006) nkyer[mu no akyi agye atom s[ toonu ankorankor[ abien p[ na [w] Akan kasa no mu.

### **2.3.2 Mforoe ne Nsianee Toonu**

Pike (1948) kyer[ s[, kasa ahorow binom w] h] a w]n toonu no ny[ ankorankor[ na mmom [foro anaa [siane. Kasa a [de mforoe anaa nsianee toonu di dwuma no kita FS anaa SF ne toonu ankorankor[ ahorow a aka no bi a aka abom ama y[n toonu biako. Saa toonu biako yi nyinaa pue w] selaboro biako so. {nte s[ ankorankor[ toonu kasa a toonu biako biara pue w] selaboro biako so no. Pike (idem) kyer[ s[ saa kasa ahorow a w]de mforoe anaa nsianee toonu ahorow yi di dwuma no de saa toonu yinom na [da ntease foforo adi w] as[mfua koro no ara mu. Mandarin Kasa y[ wiase yi mu kasa biako a [de mforoe ne nsianee toonu di dwuma (hw[ Yip, 1989). Yip (2002) kyer[ a nsianee ne mforoe toonu mu nkyer[ase y[ den kakra esiane s[ wonhu s[ mforoe ne nsianee toonu no y[ ankorankor[ toonu abien anaa nea [boro saa a aka abom so selaboro biako anaa ankorankor[ toonu abien a [soso selaboro abien a [toatoa so.

Pike (1948) kyer[ s[, y[w] ankorankor[ toonu ahorow abien anaa nea [boro saa a [toatoa w]n ho so ma yenza glaede peekye. Saa selaboro a [soso toonu ahorow yi taa y[ mmaworo abien anaa nea [boro saa a [toatoa w]n ho so anaa baworo ne selabolo k]nsonante a emu biara gyina h] s[ selaboro bi nukl]so. }toa so kyer[ mu s[, eyi ny[ mforoe ne nsianee toonu kann.

Dolphyne (2006: 61) kyer[ s[ Akan y[ ankorankor[ toonu kasa de nanso [t] mmere ahorow bi a yetumi nya mforoe anaa nsianee toonu w] ns[mfua binom mu. }fr[ eyi glaede peekye (glide pitch). Eyi si w] mmere a baworo abien bi a [soso ankorankor[ toonu sonobi-sonobi anaa baworo ne selaboro k]nsonante a [soso toonu sonobi-sonobi didi w]n ho so. Dolphyne (2006) kyer[ s[, s[ nyehy[e no y[ SF a yenza nsianee toonu na mmom s[ [y[ FS a yenza mforoe toonu.

Nsianee toonu ho nhw[so bi a ]de mae ni,

**(7) Nsianee toonu ho nhw[so**

i. ɔ́fáì - — (Ak./ Fa.)

ii. wónk' - — (Ak./ As.)

Mforoe toonu ho nso nhw[so ni.

iii maàfà - — (Ak./ Fa.)

iv. sòm' - — (Ak./As./ Fa.)

(hw[ Dolphyne, 2006:61)

**2.4 Famgyina ne Famk]**

Famgyina ne famk] y[ toonu ho dwumadi bi a [k] so w] Akan kasa nkorabata no nyinaa mu. Abakah, Amissah & Ofori (2010) kyer[ s[ animdefo ahorow binom nhy[da mfa nsonsonoe p]tee a [da famgyina ne fam toonu mu no nto gua. Ak]y[ te s[ saa animdefo yinom nyinaa de ns[mfua abien yi gyina h] ma nkyer[ase biako nanso nsonsonoe w] ne abien ntam. Dwumadi yi de ato gua s[, y[w] toonu kasa [na y[w] setr[[se kasa nanso [ny[ kasa mu nky[mu abien yi nyinaa na [de toonu ho dwumadi ahorow abien yi di dwuma. Yebetumi agyina eyi so akyer[ s[ nsonsonoe da saa ns[mfua anaa adwemp] abien yi ntam.

Zerbian ne nkae (2009) nso kyer[ s[, nsonsonoe da toonu kasa ne intoneehyen kasa ntam. Nanso s[ y[hw[ a, toonu kasa ahorow no ara te s[ Akan no san y[ intoneehyen kasa esiane s[, w]de peekye nsakrae kyer[ ns[mfua bi ntease mu nsonsonoe. Bio, w]san de peekye nsakrae kyer[ s[ sentase nhyehy[e bi y[ as[nka anaas[ as[mmisa (hw[ Kügler, 2017). Eyi kyer[ s[, nsonsonoe biara nhy[ da nna toonu kasa ne intoneehyen kasa ntam. Na mmom nsonsonoe no gyina toonu kasa ne setr[[se kasa so. Toonu kasa san de intoonhyen di dwuma saa ara nso na setr[[se kasa nso de intoneehyen di dwuma nanso toonu kasa mfa setr[[se nni dwuma saa ara nso na setr[[se kasa nso mfa toonu nni dwuma. Eyi ne Genzel (2013) adwenkyer[ a ]de mae a [ne s[, wiase nyinaa kasa nkyeky[mu mu no, kasa biara de intoneehyen di dwuma no k] b[nkoro mu. Nea enti a ama saa nkyer[mu yi ho abehia ne s[, [no nso b[boa ama y[ahu nsonsonoe a [da famgyina ne famk] mu esiane s[, famgyina nkyer[mu gyina toonu so saa ara nso na famk] nkyer[mu no gyina intoneehyen so. {nam eyi so nti, toonu kasa te s[ Akan de famgyina ne famk] nyinaa di dwuma esiane s[ kasa no de toonu ne intoneehyen nyinaa di dwuma. Kasa bi te s[ Bor]fo a [y[ setr[[se kasa de, yebetumi aka s[, [de famk] nko ara na edi dwuma esiane s[ Schachter & Fromkin (1968),

Katamba (1989) ne Laver (1994) kyer[ s[ intoneehyen su bi ne famk] na yebetumi ahu famk] s[ [y[ s[nea y[de peekye di dwuma w] intoneehyen kwan so.

#### 2.4.1 Famgyina w] Akan mu

Odden (2014:9) kyer[ s[, yenza famgyina toonu w] toonu kasa a ekita ankorankor[ toonu abien p[ mu. }de toaa so s[, [t] da bi nso a, yetumi nya bi w] toonu kasa a ekita ankorankor[ toonu abiesa mu. Esiane s[ Akan y[ toonu kasa na afei nso ekita ankorankor[ toonu abien nti, famgyina di dwuma w] mu. Obeng (2000), Dolphyne (2006), Abakah ne nkae (2010) kyer[ s[ yenza famgyina w] Akan mu w] mmere a yenza F toonu bi a epue w] S toonu bi anim na F toonu no peekye no br[ S toonu a edi n'akyi no peekye no ase w] S-F-S toonu nhyehy[e mu. Abakah (idem) kyer[ s[ yenza famgyina yi w] mmere a yenza  $S_1$ -F- $S_2$  toonu nhyehy[e. Esiane s[ F toonu a [hy[ mfimfini no peekye no w] fam nti no, [br[ soro peekye a  $S_2$  no kita no ase. S[ [ba saa a  $S_1$  soro peekye no ne  $S_2$  soro peekye no reny[ p[ bio.  $S_2$  peekye no b[w] fam kakra aky[n  $S_1$  peekye no.

Dolphyne (2006) ne Abakah ne nkae (2010) kyer[ s[, Akan kasa no kita famgyina ahorow abien a [nonom ne pr[kop[ famgyina (*automatic downstep*) ne antopr[kop[ famgyina (*non-automatic downstep*).

Abakah ne nkae (2010) kyer[ mu s[, yenza pr[kop[ famgyina no w] mmere a y[anya  $S_1$ -F- $S_2$  nhyehye[ bi na F toonu a ne peekye no huanee S toonu a edi n'akyi no toonu no w] h]

anaa [nyerae. Abakah (idem) gyinaa nhw[so ahorow bi w] Fante mu de kyer[[ eyi ase. Saa nhw[so ahorow yi bi na edi so yi.

**(8) Pr[kop[ famgyina w] Fante mu**

i. áb]dám

ii. húntù má

iii. mí nàmí

iv. íb]nàdzí

(hw[ Abakah, Amissah & Ofori, 2010:4)

S[ y[hw[ nhw[so (i) sei a, yehu s[ y[w] F toonu a [so selaboro **'b'**] a [hy[ S toonu a [soso selaboro **'a'**] ne **'da'**] mfimfini. Saa F toonu a [so selaboro **'b'**] yi w] h] anaas[ yehu no w] as[mfua no mu na ne fam peekye no br[ S peekye a [so **'da'**] no ase. Ne saa nti, S peekye a [so **'da'**] no w] fam ky[n S peekye a [so **'a'**] no. Esiane s[ saa F peekye a [ma S peekye a [so **'da'**] no b[y[ famgyina S toonu no w] h] nti, y[fr[ saa famgyina dwumadi yi pr[kop[ famgyina. S[ [ba no saa, y[mfa famgyina agyiraehy[de biara mmesi selaboro a [so famgyina S toonu no anim.

Bio, Dolphyne (2006) ne Abakah ne nkae (2010) kyer[ s[ yanya antopr[kop[ famgyina toonu w] mmere a F toonu a [de ne F peekye no br[[ S toonu a [toa ne so no S peekye no ase no nni h]. Eyi kyer[ s[, F toonu a [rema S toonu a [toa ne so no rey[ famgyina no nni h] anaa ayera. Mp[n pii no, saa F toonu yi taa y[ F toonu agyanka. Eyi kyer[ s[, selaboro a [so F toonu no ayera nanso s[nea animdefo bi te s[ Goldsmith (1976) ne Hyman (2011) kyer[ no, [sono selaboro bi [na [sono ne toonu a [so no. Esiane saa nti, bere a selaboro a [so saa F toonu yi ayera no, ne toonu no de [nyerae. Saa toonu yi a anyera na mmom ay[ agyanka



yi na enya nsunsuanso w] S toonu a edi ne so yi so ma no b[y[ famgyina S toonu no. Esiane s[ F toonu a [de famgyina ba yi nni h] anaas[ ayera nti, [y[ a w]de ahy[nsode (!) hy[ selaboro a ab[y[ famgyina S toonu soafo no anim de kyer[ s[ ne S peekye no y[ famgyina anaa [so ahuan.

Dolphyne (2006) kyer[ s[, [t] da bi a, yetumi nya antopr[kop[ famgyina toonu yi w] mmere a y[anya S-F-S toonu nhyehy[e bi mu na S<sub>1</sub> no de ne S peekye no ahy[ F toonu a [w] ne nifa so no so ama asesa ab[y[ S na anso h] ara F toonu yi a asesa yi de ne F peekye a ay[ agyanka yi ahuan S toonu a [toa ne so no peekye no so. Mmara a ]de gyinaa h] maa nkyer[mu yi ne S-F-S      S-F- !S      S-S-!S      →      →

Dolphyne (2006) de edin kasasin nhw[so a edi so yi mae de kyer[[ mu.

**(9) Antopr[kop[ famgyina w] edin kasasin binom mu w] Akan mu**

i. kòfí # ñsú – k. fí ñ'sú

ii. æf'íá # m'pá - æf'íá m'pá

iii. kòfí # æ'dú - kòfí æ'dú

(hw[ Dolphyne, 2006: 58).

S[ y[hw[ ns[mfua ahorow no mu a yehu s[ selaboro a epue ns[mfua a [t] so abien no anim no nyinaa so F toonu w] n'ab]se anaa w] mmere a egyina ne ho so no mu nanso [ne selaboro a etwa as[mfua a edi kan no to no a [so S toonu no hyiae no, F toonu no asesa

ab[y[ S toonu. {no akyi no nso yehu s[, F toonu a asesa no nso ho nsunsuanso ama S toonu a [toa ne so no ab[y[ famgyina.

Abakah ne nkae (2010) kyer[ s[, y[w] ns[mfua binom w] h] a enni F toonu biara a ay[ agyanka anaas[ F toonu biara a [w] mu a [rebr[ S toonu a edi ne so no peekye no ase nanso yenya famgyina S toonu w] saa as[mfua no. Ns[mfua a [te sei mu no, yetumi nya S'S toonu nhyehy[e w] mu. }kyer[ s[ ns[mfua binom a [te sei no, S toonu a [w] mu a ab[y[ famgyina S toonu no kita F toonu bi w] n'ab]se mu. Na saa F toonu no yi na [de famgyina no ab[to S toonu a edi so no so. Nhw[so bi a ]de dii dwum na edi so yi.

**(10) Antopr[kop[ famgyina a yenu F toonu a [kanyan famgyina no**

**Ab]se**

**As[mfua no**

i. ]bó # ]sóm —————> ]bó'sóm

ii. ]báá # ]tán —————> ]báá'tán (Abakah, Amissah & Ofori, 2010: 5)

Yehu no s[, ns[mfua yinom ab]se mu no, ekita ns[mfua anaa m]]fem ahorow abien nanso [da ne ho adi s[ as[mfua anaa m]]fem biako p[ w] s[mfua no ka anaa ne kyer[w ankasa mu. N'ab]se mu no, yehu no s[, m]]fem a [t] abien no kita nsianim a [y[ F toonu nanso ne ka no mu de [nte saa. Saa F toonu a epue w] nsianim selaboro yi so w] ab]se no mu no na [de [ho nsunsuanso abr[ S toonu a edi so no peekye no ase ma ab[y[ famgyina. Eyi nti, ns[mfua binom w] h] a enni F toonu biara nanso S toonu no bi tumi y[ famgyina esiane s[, ekura F toonu bi w] n'ab]se mu a ayera w] as[mfua no ankasa no ka mu.

Abakah ne nkae (2010) san kyer[ s[, [nny[ bere biara na yenya S<sub>1</sub>FS<sub>2</sub> toonu nhyehy[e a F toonu no br[ S<sub>2</sub> toonu no peekye no ase ma S<sub>2</sub> toonu a edi F toonu no so no b[y[ famgyina S toonu. (hw[ emu nkyer[mu w] Abakah, 2010 ne nkae: 9-10)

#### **2.4.2 Famk] w] Akan mu**

S[nea madi kan akyer[ mu no, animdefo bi te s[ Schachter & Fromkin (1968), Katamba (1989) ne Laver (1994) kyer[ s[ intoneehyen su bi ne famk] na yebetumi ahu famk] s[ [y[ s[nea y[de peekye di dwuma w] intoneehyen kwan so. Intoneehyen nso kyer[ peekye nsakrae a [ba w] sentase nhyehy[e bi te s[ ]kasamu ka so fi n’ahy[ase kosi awiei. Saa peekye yi na wogyina so kyer[ s[ saa ]kasamu no y[ as[mmisa anaa as[nka. etumi koraa nso kyer[ atenka a ]kasafo no de kasae.

Ohala (1978) kyer[ s[ famk] w] toonu kasa ahorow mu no kyer[ s[nea toonu ahorow bi a [toatoa so no peekye no k] so br[ ase nkakra nkakra fi ]kasasin bi ahy[ase kosi ]kasasin no awiei. }toa so kyer[ mu s[, [ny[ toonu kasa nko ara nso na famk] da adi w] mu. Eyi kyer[ s[, kasa a [de intoneehyen di dwuma wom te s[ setr[[se kasa nso famk] da adi wom. S[ saa na [te de a, na ne nkyer[mu a ]de ma faa famk] ho no t] sin kakra. {ne s[, setr[[se kasa ahorow mfa toonu nni dwuma. Esiane eyi nti anka obetumi agyina kasa ahorow a [nonom ne toonu kasa ne setr[[se kasa a ne abien no nyinaa de famk] di dwuma no so de ada ne nkyer[mu no adi sen s[ obegyina toonu kasa nko ara so. Bio nso, sentase nhyehy[e a ]de mae s[ famk] da ne ho adi wom no y[ ]kasasin nanso famk] tr[ k] ]kasamufa ne ]kasamu nyinaa so (hw[ Kügler, 2017).

Abakah ne nkae (2010) nso agyina nkyer[mu ahorow a [ne Ohala (1978) de yi s[ bi te s[ Crystal (1997) ne Ladefoged (1982) a w]n nyinaa kyer[[ mu s[ [y[ s[nea toonu ahorow a [w] sentase nhyehy[e bi mu no br[ w]n ho ase no so nso akyer[ s[, [ny[ toonu no na [so huan na mmom peekye ahorow no mmom na [so huan. Adwenkyer[ yi a Abakah ne nkae (2010) de too gua yi betumi akyer[ famk] ase w] kasakuw ahorow abien a w]de toonu ne setr[[se di dwuma no nyinaa mu esiane s[ saa kasakuw yi nyinaa de peekye di dwuma. }san de toaa so s[, peekye so huan no nnyina ]kasasin nko ara so s[nea Ohala (1978) kyer[ no na mmom [tr[w ka ]kasamufa ne ]kasamu nyinaa.

Yebetumi agyina eyi so akyer[ mu s[ famk] y[ s[nea peekye ahorow a epue w] sentase nhyehy[e ahorow mu fi ]kasasin so kosi ]kasamu so no so huan nkakrankrakra kosi sentase nhyehy[e no awiei. Dolphyne (2006) ne Abakah ne nkae (2010) kyer[ s[, s[ [ba no saa a, S toonu a epue w] ]kasamu tenten bi awiei no peekye no mpo betumi aw] fam akyl[n F toonu bi a epue w] ]kasamu no ahy[ase baabi. }kwan foforo so no, famk] betumi ama F toonu bi a epue w] ]kasamu bi ahy[ase mpo peekye betumi aw] soro akyl[n S toonu bi a epue w] ]kasamu no awiei.

Dolphyne (2006) toa so kyer[ mu s[, Akan mu no, s[ ]kasamu bi kita ]kasamufa ahorow a, ]kasamufa biara famgyina nhyehy[e no nyinaa ka bom ma y[n ]kasamu no nyinaa famk] nhyehy[e. Abakah ne nkae (2010) gyina Dolphyne (2006) nkyer[mu yi so da no adi s[, famk] y[ sentase dwumadi. {ne s[, famk] nhyehy[e no tumi kyer[ nsonsonoe a [da ]kasamufa titriw ne ]kasamufa kumaa mu. Nhw[so a ]de mae mu biako na edi so yi.

**(11) S[nea famk] de nsonsonoe to ]kasamu titriw ne ]kasamu kumaa ntam**

i. àkwæsí éébìsá ]bíí (As.) - }kasamufa titriw

ii. àkwæsí éébìsá ]bíí jí (As.)- }kasamufa kumaa (Abakah, Amissah & Ofori, 2010: 17)

Nhw[so (11.i) mu no, famk] nhyehy[e no si pi nanso nhw[so (11.ii) mu no, ensi pi.

**2.5 Toonu Dwumadi w] Akan mu**

Ns[mfua ahorow a [w] Akan kasa mu a [y[ p[ nanso toonu nko ara na w]de kyer[ nsonsonoe a [da w]n ntam no sua. {no nti na s[ w]de ns[mfua a [te saa redi dwuma w] akyer[w mu a w]mfa toonu ahy[nsode[ biara nto so no (Dolphyne, 2006).

Eyi da no adi s[, toonu dwumadi biako a [da adi w] Akan mu pa ara ne s[ [kyer[ nsonsonoe a [da ns[mfua a w]n akyer[w y[ p[ ntease mu (ns[mfua mu dwumadi). Saa ns[mfua yi binom ho nhw[so na edi so yi.

**(12)**

i. pápá

ii. pàpà

iii. pàpá

**(13)**

(i) ]b]!fó

(ii) ]b]fó

(iii) ]b]fó

(hw[ Dolphyne, 2006:66)

Dolphyne (2006) kyer[ s[, y[w] ]kasa mmara mu nkyeky[mu mu akuw ahorow binom te s[ adey[ as[m [ne ]kasa mmara nhyehy[e ahorow binom a toonu na w]de kyer[ emu nsonsonoe. }toa so kyer[ mu s[, Akan kasa mu no, dwuma a toonu di no w] ]kasa mmara anaa sentase nhyehye[ mu no so sen dwuma a toonu di no w] ns[mfua dwumadi mu. Eyi da no adi s[, toonu dwumadi no mu dodow no ara y[ nea [da adi w] sentase nhyehy[e mu.

Schachter & Fromkin (1968) ne Dolphyne (2006) da no adi s[, toonu dwumadi biako a [k] so w] sentase nhyehy[e mu ne adey[ kabea ahorow no bi.

### **2.5.1 Adey[ kwan so**

Schachter & Fromkin (1968) ne Dolphyne (2006) da no adi s[, adey[ kabea nhyehy[e binom a [y[ p[ w] akyer[w mu a toonu nko ara na [de nsonsonoe ba w]n ntam ne daa kabea ne seesei kabea. Schachter & Fromkin (1968) kyer[ s[, daa kabea ne seesei kabea nyinaa s[ a [no ne s[, w]n akyer[w nyinaa y[ p[. }kyer[ s[, daa kabea ne seesei kabea nyinaa y[ DAA (daa kabea) = [☒] ne SEE (seesei kabea) = [☒] w] akyer[w mu. }toa so kyer[ s[ toonu a y[de ka ns[mfua anaa m]]fem binom a [ka adey[ as[nnua no ho na [de emu nsonsonoe no ba nanso, eyi te saa w] Akuapem ne Fante nkorabata nko ara mu. Asante kasa mu de[, toonu nsonsonoe[ no gyina adey[ as[nnua no ankasa so. Dolphyne (2006) kyer[ s[, Fante kasa ne Akuapem kasa mu no, edinnsiananmu no toonu a [da so no na [sesa ma yehu nsonsonoe a [da nhyehy[e abien no ntam. Esiane eyi nti, s[ adey[ as[nnua a [y[ selaboro biako no nko ara gyina h] a enni mmataho biara a, nsonsonoe biara nna mu. Asante mu

de[, s[ adey[ as[nnua no y[ selaboro biako a, toonu nsonsonoe no da adi w] adey[ as[nnua no ankasa so. Nhw[so a edi so yi kyer[ eyi mu.

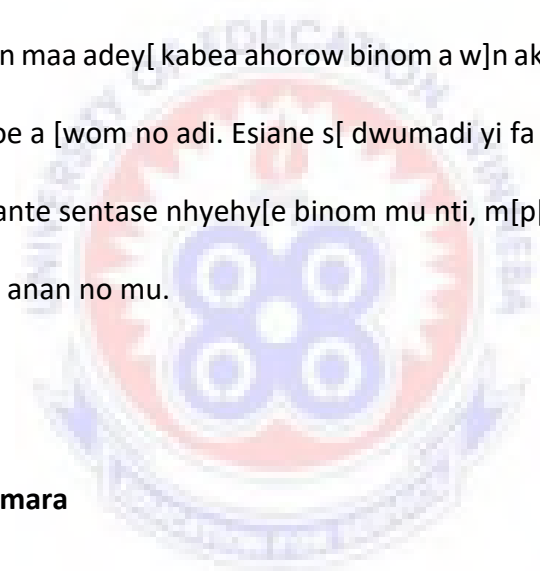
**(14) Daa Seesei**

i. Fa. ]hy[ ]hy[

ii. Ak. ]hy[ ]hy[

iii. As. ]hy[ ]hy[ (hw[ Schachter & Fromkin, 1968; Dolphyne, 2006)

Dolphyne (2006) san maa adey[ kabea ahorow binom a w]n akyer[w y[ p[ nanso w]n toonu no na [da nsonsonoe a [wom no adi. Esiane s[ dwumadi yi fa toonu nhyehy[e ho ntotoho w] Akuapem ne Asante sentase nhyehy[e binom mu nti, m[p[ns[mp[ns[m eyinom mu ak] akhiri w] ]fa a [t] so anan no mu.



**2.6 Toonu Sandi Mmara**

Abakah (2005) kyer[ s[ abenfo binom ay[ nhwehw[mu afa famgyina ne famk], ns[mfua mu toonu nhyehy[e ahorow ne toonu dwumadi ahorow w] Akan mu nanso w]nhy[[ da ny[[ nhwehw[mu ahorow mfaa toonu sandi mmara bi te s[ toonu tene a yebenya fam toonu tene ne soro toonu tene mu. Chen (2000) kyer[ s[ toonu sandi y[ mmere a as[mfua bi toonu asesa w] mmere a [ne ns[mfua binom adi nhyiamu. Laver (1994:476) kyer[ s[, toonu sandi kyer[ s[nea faako a toonim bi a epue w] ntoonim ahorow bi mu no ma saa toonim no nya alotoonu ahorow w] ne f]n[tese kwan so. Kwan foforo so no, [kyer[ s[nea toonim

bi sesa nya alotoonu ahorow w] f]n[tese kwan so w] mmere a toonim ahorow bi atwa ne ho hyia. Esiane s[ y[adi kan ahw[ famgyina ne famk] ho as[m dedaw nti, y[b[hw[ toonu tene nko ara w] ]fa yi ase.

### **2.6.1 Toonu Tene**

Abakah (2005) kyer[ s[, toonu tumi tene k] nifa anaa b[nkum fam. Abakah (ibid.) nhwehw[mu no daa fam toonu a [tene k] nifa fam ne soro toonu a [tene k] b[nkum fam adi. Fam toonu a [tene k] b[nkum ne soro toonu a [tene k] nifa so de dwumadi no amm] so.

#### **2.6.1.1 Fam toonu a [tene k] nifa fam**

Abakah (2005) kyer[ s[, F toonu tene gyina sentase nhyehy[e so a [y[ adwuma w] ]dede nhyehy[e mu a yena Ed. Kas<sub>1</sub> a edi dwuma s[ ]dede ne Ed. Kas<sub>2</sub> a edi dwuma s[ edin as[m no ankasa. }kyer[ mu s[, Akan mu no, s[ selaboro bi nso toonu a, y[ma no F toonu w] n'ab]se mu. }toa s[ kyer[ mu s[, s[ edin as[m no ankasa no w] kuw II no mu a [y[ nea ekita SFS na etumi nya ediny[ nsianim m]]fem no a, Fante ne Asante mu no, saa edin as[m no san benya ediny[ nsiakyiri m]]fem a [so soro toonu w] ]dede nhyehy[e no mu. Na mmom Akuapem mu de, hwee nsesa.



Abakah (2005) toa so kyer[ mu s[, Akan mu no, toonu nhyehy[e a ekita ]dede nhyehy[e no y[ S+ SFS a S a edi kan no gyina h] ma edinnsiananmu a edi dwuma s[ ]dede no. Saa toonu yi y[ agyanka, saa ara nso na m]]fem no nso y[ agyanka. F a [hy[ S abien no mfimfini no nso y[ agyanka a enni toonu soafo biara. }kyer[ s[, ansa na yebenya awtputu no, baworo yera ne nhyehy[e a edi kan ba ansa. {no ne s[, esiane s[ mmaworo abien apue w] ns[mfua abien no ahye so nti, B<sub>2</sub> a [ny[ fam baworo no [-Fam] no bedi kan ayera (hw[ Abakah, 2004).

Mmara a [t] so abien a [k] so no y[ toonu mmara. {no ne s[, S toonu a edi kan a enni soafo biara no tene k] nifa so w] Fante ne Asante mu. Fante mu no, [tene k] edinnsiananmu a edi dwuma s[ ]dede a enni toonu no so [na Asante mu nso [tene k] nifa so k]ka S<sub>1</sub> a [w] edin as[m no ankasa mu no soro toonu no ho ma yenza soro toonu nkabom.

Bio, toonu mmara foforo a [k] so ne s[, F toonu a [y[ agyanka no nso tene k] nifa so kotwa S toonu a [so selaboro a etwa as[nnua no to no mu ma no b[y[ F toonu. Atwa mu awie no, saa S toonu no nso b[y[ agyanka. Saa S toonu agyanka yi nso tene k] nifa so k]soa ediny[ m]]fem a [y[ nsiakyiri no ma no b[y[ S toonu. Akuapem mu de, s[nea [te w] n'ab]se mu no, saa ara na [te w] ne awtputu no mu. Nhw[so a ]de mae no bi na edi so yi.

**(15) Fam toonu a [tene k] nifa fam ho nhw[so**

	<b>Ab]se</b>	<b>Fante</b>	<b>Akuapem</b>	<b>Asante</b>
i.	àdà'ká	máádàk'í	máda'ká	màdàkàá

ii. mán'só ní mànsòì ní mán'sò ní mán'sòǐ

(hw[ Abakah, 2005:115)

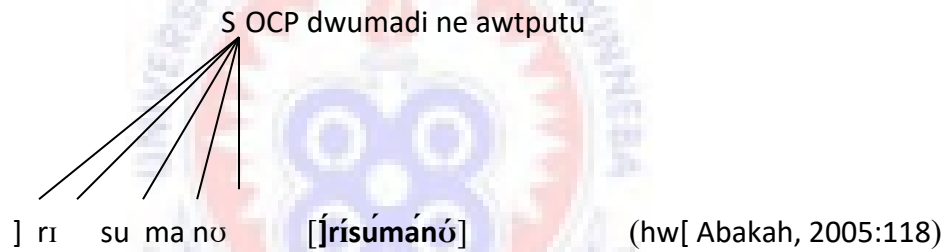
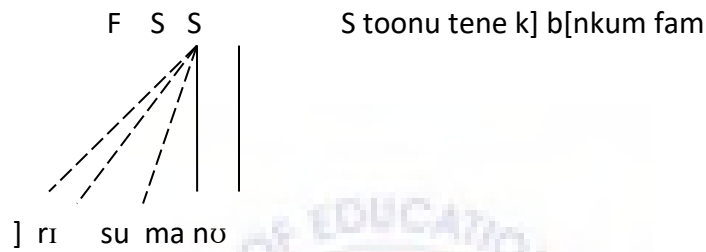
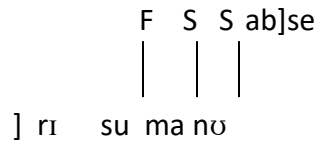
### 2.6.1.2 Soro toonu a [tene k] b[nkum so

Abakah (2005) san kyer[ s[, yenya toonu sandi mmara yi w] mmere a ]kasamu bi a [y[ as[nka anaas[ ]kasamufa titiriw bi a [w] ensii kabea anaa daakye kabea mu na y[redane mu ma ab[y[ ]kyer[fo kasamufa. S[ y[redane kasamufa a [te sei a [y[ as[nka no ak] ]kyer[fo kasamufa mu a, y[de ]kyer[fo kasamufa ns[mfua bi te s[ [ji] ne [no] na esi as[nka nhyehy[e no akyi. Y[de [ji] no di dwuma w] mmere a as[nka no w] seesei kabea mu [na [no] no di dwuma w] mmere a as[nka no w] twam kabea mu. }kyer[ mu s[, esiane s[ ]kyer[fo kasamufay[ m]]fem yinom kita S toonu nti, s[ [ne as[nka kasamufa yinom behyia a, [tene ne S toonu k] b[nkum so ma no ka selaboro ahorow a [w] nhyehy[e no mu nyinaa ma ne nyinaa b[fa S toonu.

Abakah (2005) kyer[ s[, s[ adey[ as[m a [w] as[nka no nhyehy[e no mu no w] adey[ kuw III no mu a, ne toonu nhyehy[e w] awtputu no mu nyinaa y[ p[ w] kasa nkorabata ahorow no mu [mfa ho s[ nsonsonoe da w]n nnyigyei no ntam. Bio, m]]fem ahorow a [y[ nsianim ma adey[ as[m w] Akan mu no nso, y[ma no F toonu s[ n'ab]se toonu. Toonu sandi mmara a [y[ adwuma w] saa fa yi mu ne s[, S toonu a [so selaboro a etwa to w] adey[ as[m no mu a [y[ nea [so S toonu no tene k] ne b[nkum so sesa F ab]se toonu a y[de asoa nsianim m]]fem ahorow no nyinaa ma [no nso b[soa soro toonu. {no akyi no, esiane }hy[ Aforosiane Mmara (Obligatory Contour Principle (OCP)) no nti ]kyer[fo kasamufay[fo m]]fem a [no nso so S toonu no de ne sentase dwumadi ne toonu a ekita no no sesa

]kasamufa no firi as[nka mu k] ]kyer[fo kasamufa mu. Sei na Abakah (2005) da eyi adi w] }tos[gyem[ntal Ti]ri kwan so.

(16)



### 2.6.2 Toonu ananmuhy[

Abakah (2005) ne Nketsiah (2019) kyer[ s[, Hyman (1975) kyer[ toonu ananmuhy[ mu s[ yanya no w] mmere a toonu bi a ekita ]kasa mmara dwumadi bi sesa f[n]l]gyi toonu bi. Nketsiah (2019) ne Abakah (2005) y[ adwen s[ Akan mu no, toonu ananmuhy[ da ne ho adi w] akwan abien so. Eynom ne

- i. bere a y[redane adey[ as[nnua bi mu ay[ no din
- ii. bere a y[rey[ ns[mfua nkabom a ekita edin ne as[mfua a efi ns[mfuakuw foforo biara mu.

Abakah (2005) kyer[ mu s[, saa nhyehy[e ahorow yi kita FS toonu ]kasa mmara toonu a [pepa toonu ahorow a [w] adey[ as[m a y[redane mu ay[ no din no mu ne ns[mfua nkabom no mu k]nstitu[n]te ahorow no mu. {ba no saa a, Selaboro a etwa to no p[ na [soa S toonu a afoforo a aka no nso nyinaa b[soa F toonu. Nketsiah (2019) kyer[ s[, toonu ananmuhy[ no nso y[ toonu tene no mu biako esiane s[ F toonu a [w] selaboro a edi kan no mu no tene k] nifa so ka selaboro a aka no nyinaa gye s[ selaboro a etwa to a [so S toonu no p[.

**(17) Toonu ananmuhy[ ho nhw[so w] Akan mu**

	<b>Ab]se</b>	<b>Fante</b>	<b>Akuapem</b>	<b>Asante</b>
i.	kúró	ɲ-kùrì-í	ɲ-kùrì-í	ɲ-kùrù-jí
ii.	dá	ń-dàí	ń-nà-í	ń-dà-jí
iii.	ɖʒíná	è- ɖʒìnà-í	æ- ɖʒìnà-í	æ- ɖʒìnà-jí

(hw[ Abakah, 2005:121)

**2.7 Toonu Polaraesehyen**

Abakah (2005) kyer[ s[ Newman (1995:771) kyer[ toonu polaraesehyen mu s[ [y[ m]]fem bi a ne toonu no ne toonu a edi n’anim anaa n’akyi no b] abira. Abakah (2005) toa so kyer[ mu s[, Fante ne Akuapem nkorabata no mu no, edinnsiananmu a enni toonu

no fa toonu a [ne toonu a [so selaboro a edi kan w] adey[ as[m a [toa so no b] abira. Eyi di dwuma [mfa ho s[ adey[ as[m no w] kuw I anaa kuw II no mu. Faako a mmara yi ny[

adwuma p[ y[ bere a edinnsiananmu a [t] so abien ne adey[ as[m kuw II ahyia w] Asante mu.

S[ edinnsiananmu no y[ edinnsianamu a [t] so abien a, [fa toonu a [so selaboro a edi kan w] adey[ as[m kuw II no mu no p[p[[p[. S[ [baa no saa de a, toonu polaraesehyen no any[ adwuma. Asante kasa mu nso no, edinnsiananmu biakofo a edi kan, dodow a edi kan, biakofo a [t] so abiesa ne ne dodow a [t] so abiesa no ne toonu a [so selaboro a edi kan w] adey[ as[m kuw I no mu no b] abira. Na mmom edinnsiananmu biakofo ne dodow a [t] so abien w] Asante mu de, [fa selaboro a edi kan w] adey[ as[m kuw I no mu no toonu no p[p[[p[. Adey[ kuw II no mu w] Asante mu de, edinnsiananmu dodowfo ne biakofo a edi kan ne nea [t] so abiesa no fa toonu a [so selaboro no w] mmere a edinnsiananmu biakofo ne dodow a [t] so abien nso ne adey[ as[m kuw II no ara selaboro a edi kan no toonu no b] abira.

**(18) Toonu polaraesehyen a [k] so adey[ as[m kuw I mu**

Ab]se	Fante	Akuapem	Asante
i. mI + t]nó	mí.t]n`	mí.t]n`	mì.t]ó
ii. ]wO/I + t]nó	í. t]n`	wó. t]n`	wó. t]ó
iii. ] + t]nó	].t]n`	].t]n`	].t]ó
iv. j[nI + t]nó	j].t]n`	j].t]n`	j].t]ó
v. hOmO + t]nó	hóm.t]n`	mó.t]n`	mó.t]ó

vi. w]nomo+ t]nó      w].t]nè      w].t]nè      w].t]ó

**(19) Toonu polaraesehyen a [k] so adey[ as[m kuw II mu**

<b>Ab]se</b>	<b>Fante</b>	<b>Akuapem</b>	<b>Asante</b>
i. mI + sáteirì	mì.sáteir`	mì.sàkrà	mì.sàkrá
ii. wo/I + sáteirì	ì.sáteir`	wó.sàkrà	wó.sàkrá
iii. ] + sáteirì	].sáteir`	].sàkrà	].sàkrá
iv. j[nI + sáteirì	j].sáteir`	j].sàkràj].sàkrá	
v. homo + sáteirì	hóm.sáteir`	mó.sàkrà	mó.sàkrá
vi. w]nomo + sateiri	w].sáteir`	w]. sàkrà	w].sàkrá

(hw[ Abakah, 2005:123)

**2.8 Toonu disimileehyen**

Abakah (2005) kyer[ s[ Hyman & Schuh (1974) kyer[ toonu disimileehyen mu s[ [y[ mmere a selaboro bi a [so ne toonu dedaw no sesa ne toonu no w] mmere a [ne selaboro foforo a [so saa toonu no ara bi akohya. Abakah (2005) san da no adi s[ Newman (1995:771) kyer[ a, toonu polaraeseehyen ne toonu disimileehyen no rey[ ay[ p[. Na mmom nsonsonoe a [da mu ne s[, disimileehyen no mu no, m]]fem bi a [so ne toonu no sesa ne toonu no na mmom polaraeseehyen no de[, m]]fem a [fa toonu no a [ne m]]fem a edi ne so no b] abira no nso toonu biara w] n'ab]se mu. Abakah (2005) kyer[ s[, Akan mu no, y[taa nya toonu disimileehyen w] ns[mfua nkabom mu. Akan ns[mfua nkabom mu no, s[

as[mfua a edi kan (A<sub>1</sub>) ne as[mfua a [t] so abien (A<sub>2</sub>) no nyinaa kita S toonu a, A<sub>1</sub> no sesa ne toonu no k]fa fam toonu na atumi ne A<sub>2</sub> toonu no ab] abira.

Nhw[so:

<b>(20) Ab]se</b>	<b>Fante</b>	<b>Akuapem</b>	<b>Asante</b>
i. kúnú # pá	kùnùpá	kùnùpá	kùnùpá
ii. nám # kúm	nàm̀kúm	nàm̀kúm	nàm̀kúm (hw[ Abakah, 2005: 129)

Esiane s[ dwumadi yi fa toonu ho titriw nti, ns[m binom a animdefo binom ada no adi afa toonu ho a makyer[ mu yi b[boa dwumadi yi ntease yiye. Ne saa nti, bere biara a m[b] saa ns[m yinom bi so no, [renhia nkyer[ase foforo biara bio.

## 2.9 Ti]ri a Nhwewh[mu yi Gyina so (}tos[gyem[ntal Ti]ri)

Nhwewh[mu yi gyina }tos[gyem[ntal Ti]ri so. Saa ti]ri anaa adwenemus[m yi b[boa ama y[ahu selaboro biara ne ne toonu a [so no ne s[nea selaboro bi toonu tumi tene sesa selaboro foforo a edi n'akyi anaas[ n'anim no toonu. Hyman (2009) kyer[ s[, toonu ho nhwewh[mu ahorow pii na [de adwenemus[m yi adi dwuma. S[ [no da nky[n a, nhwewh[mufo ahorow binom nso de ay[ nhwewh[mu binom te s[ nnyigyei biakoy[ (Clements 1977; 1981, Hoberman 1988), fiikya gyiom[tri (Clements, 1985; Clements & Hume, 1995) ne pr]s]di m]f]l]gyi (McCarthy, 1981; McCarthy & Prince 1986),

}tos[gyem[ntal Ti]ri y[ f]n]]gyi ti]ri bi a Goldsmith (1976) de bae. Ansa na }tos[gyem[ntal Ti]ri b[ba no na linea gyeneretifu f]n]]gyi na na f]n]]gyi kasanimdefo de di dwuma. Hyman (2011) kyer[ s[, b[y[ afe 1970 mu no, kasanimdefo behuu s[ linea gyeneretifu f]n]]gyi ti]ri no ntumi nni f]n]]gyi nhyehy[e binom ho dwuma.

Mmere bi no, [k]bae s[ toonu nso y[ su bi a w]de to nnyigyei bi so na s[ w]regyina Chomsky ne Halle (1968) fiikya matrese nkyer[mu no mu a, na [s[ s[ w]de toonu su no ka saa mfiikya a w]de rekyer[ nnyigyei koro no mu no ho; s[ ebia +/- SORO (selaboro a [w] soro toonu), +/- FAMBA (selaboro a ne toonu no no y[ Soro-Fam w] k]nt] toonu mu.) ne nea [keka ho. Eyi mu no wobehuu s[, s[nea w]kyer[ k]nt] toonu fiikya w] Linea F]n]]gyi mu no ho nhy[ da ntwaa yiye na afei nso s[ wode toonu fiikya no ka mfiikya ahorow no ho w] selabol anaa nnyigyei no fiikya matrese no mu a, na [kyer[ s[ toonu fiikya no ka nnyigyei no mfiikya no ho a wuyi fi mu [ny[ yiye. Nanso, toonu nka nnyigyei biara fiikya ho esiane s[ toonu ankasa gyina ne ho so nti [s[ s[ w]p[ kwan bi a w]de b[kyer[ toonu su w] nnyigyei bi fiikya nkyer[mu mu a [b[ma toonu no agyina ne ho so.

Esiane eyi nti, Goldsmith (1976) behuu s[, y[w] nne ahorow bi a epue w] nnyigyeiy[ mu a na [y[ den s[ w]de linea gyeneretifu f]n]]gyi ti]ri no bedi ho dwuma a ebi ne toonu. Eyi kanyann Goldsmith (1976) ma ]de }tos[gyem[ntal ti]ri yi bae s[nea [b[y[ a [b[s]w saa ]haw a [da h] no ano. }tos[gyem[ntal ti]ri yi de nsaw]so nsensane di dwuma de kyer[ s[ nnyigyei biara ne ne nnesu a w]de ka no nyinaa gyinagyina w]n ho so. Hyman (2011) kyer[ s[, toonu ho titiriw na [kanyann Goldsmith ma ]de }tos[gyem[ntal ti]ri yi bae esiane s[, na linea

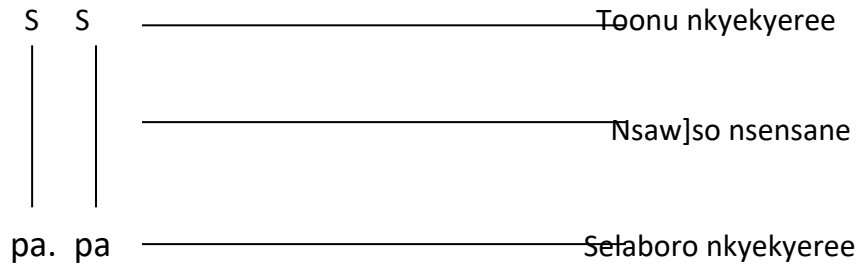


gyeneretif f]nl]gyi no san de +/- SORO, FAM anaa FAMBA na na [kyer[ toonu bi a [da nnyigyei bi so.

{da adi nso s[, nnyigyei bi toonu no no nhy[ da nka nnyigyei no ankasa su ho na mmom [no nko ara nso gyina ne ho so ne saa nti ]tos[gyem[ntal ti]ri no b[boa ama toonu ahorow no atumi agyina w]n ho so. Goldsmith kyer[ s[, [s[ s[ nsaw]so nsensane biara de selaboro biako biara ma toonu biako nanso ]toaa so kyer[[ mu s[, [ny[ bere biara na nsaw]so nsensane no de selaboro biako biara ma toonu biako na mmom [t] da bi a, [tumi nso de selaboro abien ma toonu biako anaa toonu abien ma selaboro biako. Nea etumi de toonu abien ma selaboro biako no taa si w] kasa ahorow a w]de aforosiane/k]nt] toonu di dwuma no mu. S[nea [b[y[ ama nsaw]so nsensane no dwumadi no bedi mu nti, Goldsmith (1976) hy[[ mmara anan bi a [b[boa ama nhyehy[e no adi mu. Mmara anan yi ne s[:

- i. {s[ s[ selaboro biako biara ne toonu biako biara nya nsaw]so fi b[nkum so k] nifa so kosi s[ selaboro ahorow no b[sa.
- ii. {s[ s[ toonu a enni selaboro a [ne no di nsaw]so no tene k]ka selaboro a etwa to w] b[nkum so.
- iii. S[ eyinom nyinaa si wie na s[ vawol bi da so da h] a enni toonu a [ne no di nsaw]so a, tene no ma [nk]ka toonu a etwa to w] nifa so.
- iv. Enni ho kwan s[ nsaw]so nsensane biara tumi twa nsaw]so nsensane foforo bi anan mu.

S[nea madi kan akyer[ mu no, ]tos[gyem[ntal ti]ri de nsaw]so nsensane na [kyer[ twaka anaa nsaw]so a [da adi w] selaboro bi ne toonu bi mu. Eyi ma yenya toonu nkyekyeree a [ne selaboro/nnyigyei nkyekyeree di nsaw]so. {ho nhw[so bi ni,



Bio nso, ti]ri yi de to gua s[, enni ho kwan s[ toonu ahorow b[y[ abien anaa nea [boro saa a [y[ p[ s[ [y[ SS anaa FF di w]n ho so w] as[fua bi mu. Eyi kyer[ s[ [s[ s[ toonu ahorow a edidi so no y[ sonobi-sonobi. Esiane eyi nti, s[ toonu ahorow bi a [w] as[mfua bi mu nhyehy[e y[ SSF a, yebetumi atew so ay[ no SF. Eyi na w]fr[ no }hy[ Aforosiane Mmara (Obligatory Contour Principle (OCP)) no (hw[ Goldsmith 1976:63).

Hyman (2009:110) nso de to gua s[, [ny[ bere biara na saa mmara yi di dwuma. }kyer[ mu s[, s[ selaboro ahorow a w]n toonu no y[ p[ no w] m]]fem biako mu de a, yebetumi de toonu biako agyina h] ama selaboro ahorow no. {no ne s[ y[de selaboro ahorow a w]n toonu no y[ p[ a edidi so no nsaw]so nsensane no nyinaa b[ma toonu biako. Mmom no, Hyman (2009) san kyer[[ s[, s[ selaboro a edidi so a w]n toonu no y[ p[ no fi selaboro afoforo mu a, y[b[ma emu biara toonu nko.

Ti]ri koro yi ara san da no adi s[, selaboro anaa nnyigyei bi a [so toonu yera a, ne toonu no de etim h] a [kyer[ s[ ab[y[ agyanka. Saa toonu yi a ab[y[ agyanka no tumi ma famgyina k] so na afei nso etumi tene k] b[nkum anaa nifa so de nsakrae ba toonu ahorow a [ne no b[n no so. Saa adwenemus[m yi na mede b[p[ns[mp[ns[m sentase nhyehy[e binom a [sono w]n toonu nhyehy[e no w] Akuapem ne Asante ntam w] ]fa a [t] so anum no mu.

## 2.10 }fa yi Muab]

Saa }fa yi ahw[ ns[nti binom a [fa dwumadi yi ho a animdefo abinom ada no adi no ho mp[ns[mp[ns[mu. Ns[nti ahorow a map[ns[mp[ns[m mu w] ]fa yi mu no ne selaboro, toonu ne toonu kasa, toonu dwumadi, toonu-sandi mmara binom te s[ toonu tene ne antotoonu sandi mmara binom te s[ toonu ananmusi, toonu polaraeseehyen ne toonu disimileehyen. Saa ns[nti ahorow yi ne me dwumadi yi w] twaka. Afei ti]ri a nhwehw[mu yi gyina so a mede b[y[ mp[ns[mp[ns[mu w] ]fa a [t] so anum no mu no nso nkyer[mu puee ha.



## }FA A {T} SO ABIESA

### }KWAN A MEFAA SO Y{{ NHWEHW{MU YI

#### 3.0 Nnianim

Saa ]fa yi b[da akwan ahorow a mefaa so y[[ nhwehw[mu yi no adi. }fa yi mu no, m[kyer[ mmeae ahorow a dwumadi kok]] so ne s[nti a mefaa saa mmeae ahorow no na [ny[ mmeae afoforo biara. Bio, m[kyer[ nnipa dodow a mede w]n dii dwuma no ne w]n mfe ahorow ne s[nti a mepaw saa nnipa ahorow no. Esiane s[ dwumadi no fa toonu ho titriw nti m[san akyer[ s[nea mede ns[mmoano ahorow no maa akasafo no ne faako a menyaa ns[mmoano no. Esiane s[ m[y[ akusteke mp[ns[mp[ns[mu nti, ]fa yi mu no, m[san akyer[ k]mputa so dwumadi PRAAT a mede b[y[ akusteke mp[ns[mp[ns[mu no ani so kakra.

#### 3.1 Nhwehw[mu no Su

Nhwehw[mu yi b[kyer[ sentase nhyehy[e ahorow a w]n toonu nhyehy[e y[ p[ w] Akuapem Twi ne Asante Twi mu na asan akyer[ sentase nhyehy[e ahorow a nsonsonoe da w]n toonu nhyehy[e no mu w] saa Akan kasa nkorabata abien yi ntam. Esiane saa botae yi nti, nhwehw[mu yi b[y[ nea ekita nkyer[kyer[mu su anaa egyina nkyer[kyer[mu so no bi (qualitative research). {wom s[ dwumadi yi de n]ma ahorow bedi dwuma de ap[ns[mp[ns[m peekye ahorow binom FO mu de nanso mp[ns[mp[ns[mu no rennyina akontaabu so. N]ma ahorow no b[ma y[ahu peekye ahorow a [deda selaboro binom so ne faako a famk] ne famgyina da adi w] kasa nkorabata abien no mu na aboa ama y[atumi ay[ ntotoho a [fata w] akasa a [te saa no mu.

### **3.2 Nnipa a mepaw w]n de dii dwuma no.**

Nhwehw[mu dwuma y[ dwumadi bi a [fa nnipakuw binom ho na mmom no, s[ y[rey[ nhwehw[mu a [te saa a, yentumi anaas[ [b[y[ den s[ y[de nnipakuw no nyinaa bedi dwuma w] saa nhwehw[mu dwuma no mu (Owu-Ewie, 2017). Ne saa nti, m[paw nnipa kakra a wokita su bi a [b[boa ama nhwehw[mufo no adu ne botae no ho na mede asi nnipakuw ahorow a nhwehw[mu no fa w]n ho no nyinaa anan mu. Esiane s[ me dwumadi no fa Akuapem ne Asante kasa toonu ho nti, mepaw nnipa a w]akwadare w] kasa abien no ka mu s[nea [b[y[ a metumi adu dwumadi no botae no ho.

Nnipa a mepaw w]n de dii dwuma yi dodow nyinaa si dumien (12). S[nea [b[y[ na p[p[[p[y[ aba ntotoho no mu nti, w]n mu nsia (6) y[ mmea [na w]n mu nsia (6) nso y[ mmarima. Nkyeky[mu yi mu biara gyina h] ma ]ha mu nkyeky[mu aduonum (50%). Saa nnipa yi y[ w]n a w]n ani afi a mahw[ ahu s[ w]y[ nnipa a w]de kasa no di dwuma w] ne kwan so.

Nnipa yi mu nsia (6) y[ Akuapemfo [na w]n mu nsia (6) nso y[ Asantefo. }kasa nkorabata no mu biara mu no, nnipa nsia (6) a mede w]n redi dwuma no mu baasa (3) y[ mmeae [na emu baasa nso y[ mmarima.

Esiane s[ dwumadi no gyina Akuapem kasa ne Asante kasa so nti, mepaw nnipa a mede w]n dii dwuma no w] amantam ahorow abien a migye di s[ w]de kasa no na etwaa w]n furuma mu. Saa amantam abien yi ne Asante Mantam ne Apuei Mantam. Nnipa a mepaw w]n de dii dwuma w] Asante Mantam mu no fi Kumase, Asante Mamp]n ne }fenso [na w]n a mede w]n dii dwuma w] Apuei Mantam mu no nso fi Akr]p]n-Akuapem, Aburi ne Mamp]n-Akuapem a [no nso w] Akuapem Atifi Mansin mu. Nnipa yi a mepaw w]n yi ny[ atuk]tenafo na mmom w]y[ w]n a w]woo w]n w] nkurow ahorow no mu na w]atena h] boro mfe du. Ne saa nti Akan kasa nkorabata ahorow no bi nnyaa nsunsuanso w] w]n kasa no so enti w]mfa kasafra nni dwuma. S[nti a mepaw nnipa fii saa nkurow ahorow yi mu ne s[, migye di s[ saa nkurow ahorow no de kasa a nhwehw[mu yi gyina so no di dwuma yiye pa ara. Saa nnipa yi y[ asukuufo w] University of Education, Winneba-Ajumako Campus mu.

Nnipa a mepaw w]n no mfe kyer[p]n fi aduonu kosi aduosia (20-60). S[nti ne s[, misusuw s[ saa akasafo yi akwadare w] s[nea w]de kasa no di dwuma mu.

### **3.3 Ns[mmoano no ne ne tase**

{siane s[ dwumadi no fa toonu ne sentase ho titriw nti, metasee me ns[mmoano no dodow no ara fii nhoma ahorow binom a Akan sentase nhyehy[e binom w] mu mu na ama matumi agyina w]n toonu no so w] kasa nkorabata abien no mu ay[ mp[ns[mp[ns[mu ahorow no. Nhoma ahorow a mede dii dwuma no bi ne Dolphyne (2006), Boadi (2010), ne Schachter & Fromkin (1968). Migyinaa ns[mmmoano ahorow yinom so kyer[wee ns[m a [tete saa no guguu krataa so. Saa nkrataa ahorow na mede memaa akasafo a mede w]n dii dwuma no ma w]bob]e ma mekyeree w]n nne no guu afiri so.

Ansa na merekyere w]n nne no agu afiri so, memaa w]n mu biara mmere kakra ma w]de kenkann ns[m no s[nea [b[y[ a w]n ano b[kokwaw so. {no akyi no, memaa w]n mu biara kekaa ne de kyer[[ me ma mihui s[ eye ansa na merefi ase akyere ns[m no agu afiri a mede dii dwuma no so. Memaa ]kasafo biara sii as[m a egu krataa a ekita no no so mpr[nsa s[nea [b[y[ na merey[ mu mp[ns[mp[ns[mu na nne no bi ho t] kyema a, menya foforo a [y[ onii koro no ara nne na magyina so de ay[ mp[ns[mp[ns[mu no. {wom s[ sentase nhyehy[e ahorow pii na koroy[ ne nsonsonoe da w]n toonu nhyey[e mu w] Asante ne Akuapem mu de nanso esiane s[nea me dwumadi no ntr[mu te nti mepaw mu dummiensa (13) de y[[ akusteke mp[ns[mp[ns[mu no. Emu nsia (6) y[ koroy[ [na emu (7) nso y[ nsonsonoe. Mede ns[mfua aduasa-abiesa (33) nso na [y[[ ]tos[gyem[ntal mp[ns[mp[ns[mu a ason (7) a [w] nsonsonoe no mu no nso ka ho. Eyi nti ne nyinaa mu no, mede ns[mmoano aduasa-akron (39) na edii dwuma yi.

### **3.4 Akade ahorow a mede dii dwuma**

### 3.4.1 PRAAT

S[ y[rey[ peekye ho adwuma a [w] akusteke f)n[tese mu no a, [ho behia s[ y[de mfiri mmom bedi dwuma sen s[ y[de y[n aso betie akyer[ k[k[ (Roach, 2002). Eyi nti, esiane s[ Nhwehw[mu dwuma no fa toonu ho titriw nti no, s[nea [b[y[ a yebetumi ahu peekye ahorow a [deda selaboro ahorow no so no yiye nti no, [ho behia s[ y[de afiri a [b[boa ama y[ahu peekye mma no yiye no di dwuma. Ne saa nti mede k]mputa so dwumadi a w]fr[ no PRAAT na [b[y[ peekye ahorow no gyinabea no mu nhwehw[mu.

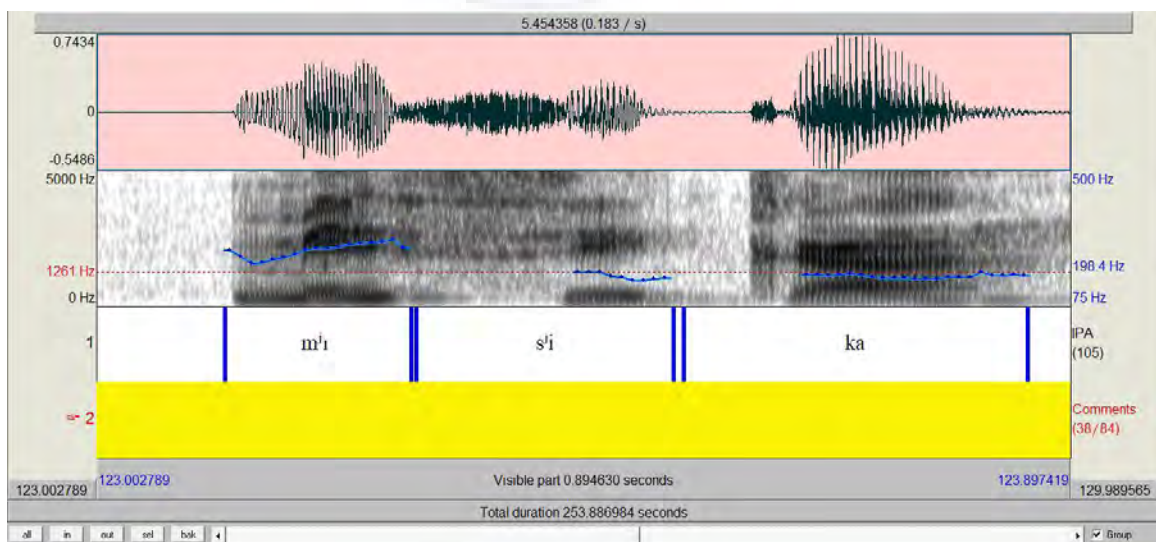
Boersma (2001) kyer[ s[, PRAAT y[ k]mputa so dwumadi a [boa ma y[y[ ]kasa mu mp[ns[mp[ns[mu. PRAAT y[ k]mputa so dwumadi bi a ne y[fo ne Paul Boersma ne David Weenink a w]w] Institute of Phonetic Science mu w] University of Amsterdam. Boersma (2001) kyer[ s[ s[nti biako a [ho hia s[ y[de PRAAT bedi dwuma w] akusteke mp[ns[mp[ns[mu mu no ne s[, ne peekye nsusui no y[ ade a edi mu pa ara w] wiase yi mu. {no ne s[ [ma y[n peekye gyinabere no y[ p[p[[p.

PRAAT a mede bedi dwuma no y[ PRAAT 6.0 (32-bit). Makyere ns[m a mede bedi dwuma no agu afiri so awie no, metwee ne nyinaa guu k]mputa so na metotoo w]n din s[nea [s]. PRAAT no boa ma y[n nsa ka saa ns[m ahorow no nyinaa w] mu na y[ay[ w]n peekye gyinabere ahorow no mu mp[ns[mp[ns[mu. PRAAT no boa ma metumi kyer[ peekye ahorow no gyinabere peekye mma ne nk]nt]noe (pitch values and pitch contour) a [da no adi s[nea dwumadi no botae te no. {boa ma yehu peekye ahorow a [soso selaboro ahorow no w] sep[togram no so.



Sep[togram no so no, yehu nsensanee a ak]nt]nk]nt]n (pitch contour) a [boa ma yenya mma dodow a peekye biara kita. Saa nsensianee a ak]nt]nk]nt]n yi ahosu y[ buluu. Eyi boa ma yehu famgyina ne famk] ahorow a [k] so w] ns[m ahorow no bi mu. PRAAT no susuw peekye mma no w] H[[se (Hertz) mu. Yetumi hu peekye mma no w] sep[togram no nifa so. Sep[togram a [w] me PRAAT a mede dii dwuma no so no, peekye mma no fi ase w] 75Hz na [k]pem 500Hz. Esiane s[ [sono ]kasafo biara ne ne peekye mma nti, yentumi nkyer[ peekye kyer[p[n mma p]tee a egyina h] ma fam peekye ne nea egyina h] ma soro peekye. Esiane eyi nti, ]kasafo biara ne ne peekye kyer[p[n a mede bedi dwuma. Na mmom [s[ s[ y[hy[ no nso s[, mmea peekye mma no w] soro sen mmarima peekye mma esiane s[ mmea dw[[dw[[wa nkataso no mu y[ hare sen mmarima de no.

Sei na sep[togram no a [w] PRAAT so no aniso te w] mfonini a edi h] no mu.



Mfonini 3.1: Mfonini a [kyer[ Akuapem ]barima ]kasafo peekye nk]nt]noe a ]de kaa /mí síká/.

### 3.4.2 Afiri a mekyeree ns[m no guu so

S[nea madi kan akyer[ no, mekyeree ns[m a mede y[[ mp[ns[mp[ns[mu no guu afiri so. Afiri a mede kyeree akasafo no nne no y[ 'Samsung Galaxy S6 edge plus' fon. Midii kan maa akasafo no bob]] ns[m no bi ankorankor[ ansa na w]rekeka abom aka no s[nea ns[m no sentase nhyehy[e te.

Mekyeree ns[m ahorow no w] adan ahorow a dede nni h] mu s[nea [b[y[ a nnyigyei foforo biara nnya nsunsuanso w] nne a mede b[y[ mp[ns[mp[ns[mu no so. Afei nso, memaa kwan b[y[ s[ntimita abiesa (3) b[daa afiri a mede rekyere nne no ne ]kasafo no ano ho ntam s[nea [b[y[ a [rentumi nkyere w]n ahomegu mma no nnya nsunsuanso w] peekye ahorow no so.

### 3.5 Akwansr[

S[ worey[ Nhwehw[mu dwuma a [fa nnipa ho anaa w]n asetena mu ns[m ho a, [s[ s[ wokyer[kyer[ nnipa a wode w]n bedi dwuma no nhwehw[mu no ani so fann w] ]kasa a emu da h] a w]b[te ase mu. Eyi b[boa ama w]asi gyinae w] ade ko a w]de w]n ho reb[hy[ mu no mu. {s[ s[ wogyee pene ansa na wode w]n adi dwuma no (Owu-Ewie, 2017).

Eyi nti, ansa na mede nnipa no redi dwuma no, medii kan kyer[w w]n krataa de sr[[ w]n h] kwan b[y[ nnaw]twe abien ma wogyee pene. Da a merek]twe w]n ns[m no agu afiri no so no, mekyer[[ nhwehw[mu no ani so kyer[[ w]n. Na memaa w]tee ase s[, [y[ adesua ho nhwehw[mu a [b[boa ama ]kasa no atu mp]n na mmom [ny[ biribi foforo biara na mede

w]n nne no rek]y[. Memaa w]n akwansr[ krataa maa w]de w]n nsa hy[[ ase de gyee pene.

Eyi maa me akwannya ma mitumi kyeree w]n ns[m no.

### 3.6 Ns[mmoano a mede y[[ akusteke mp[ns[mp[ns[mu no

#### (i) Nea w]n toonu nhyehy[e y[ p[

a. Saa maame/sàá mààm'í jí/

b. Kwasi yere /k<sup>w</sup>æsí jí'í/

c. Mew] sika /mìw] s'íká/

d. }w] Kumasi /}w] k<sup>w</sup>ùmás'í/

e. }hy[ h] /}é[ 'h<sup>w</sup>]/

f. Kofi at] /k<sup>w</sup>òfí át<sup>w</sup>]/

#### (ii) Nea nsonsonoe da w]n toonu nhyehy[e mu

a. Me sika /mɪ sika/

b. Me nyansa /mɪ ɲan'sa/

c. Me foto /mɪ foto/

d. Met] /mɪt]/

e. Mont] no /m<sup>w</sup>ɔnt<sup>w</sup>] n<sup>w</sup>ɔ/

f. Masoma no /mas<sup>w</sup>ɔma n<sup>w</sup>ɔ/

g. Mank] h] /maŋk<sup>w</sup>] h<sup>w</sup>]/

### 3.7 }fa yi Muab]

}fa a [t] so abiesa yi ada akwan ahorow a mefaa so y[[ nhwehw[mu yi no adi. }fa yi mu no, makyer[ mmeae ahorow a dwumadi no kok]] so ne s[nti a mefaa saa mmeae no. Bio nso, makyer[ nnipa dodow a mede w]n dii dwuma no ne w]n mfe ahorow ne s[nti a mepaw saa nnipa ahorow no. Esiane s[ dwumadi no fa toonu ho titriw nti masan akyer[ s[nea mede ns[mmoano ahorow no maa akasafo no ne faako a menyaa ns[mmoano no. Esiane s[ m[y[ akusteke mp[ns[mp[ns[mu nti, ]fa yi asan akyer[ k]mputa so dwumadi PRAAT a mede b[y[ akusteke mp[ns[mp[ns[mu no ani so kakra.



## **}FA A {T} SO ANAN**

### **DWUMADI NO HO AKUSTEKE MP{NS{MP{NS{MU**

#### **4.0 Nea akusteke mp[ns[mp[ns[mu no kosii**

Saa ]fa yi b[da nea esii w] akusteke mp[ns[mp[ns[mu a [k]] so w] nhwehw[mu yi mu no adi. Akusteke mp[ns[mp[ns[mu yi b[boa ama y[ahu s[nea selaboro ahorow a [wow] sentase nhyehy[e ahorow a mede dii dwuma yi adi no te s[ ebia [y[ soro anaas[ fam. Eyi b[kyer[ sentase nhyehy[e binom a w]n toonu nhyehy[e no y[ p[ ne nea nsonsonoe w] mu w] Akuapem ne Asante kasa mu.

Esiane s[ Nhwehw[mu dwuma yi gyina Akan kasa nkorabata abien p[ so nti, Akasafo a mekeyeree w]n nne guu afiri so na misusuu peekye ahorow a [da adi w] selaboro ahorow a epuepuee w] w]n ns[m no mu no y[ Akuapem Twi ne Asante Twi akasafo.

S[nea dwumadi no botae te no, [rehw[ sentase nhyehy[e ahorow a w]n toonu nhyehy[e y[ p[ ne nea nsonsonoe da w]n toonu nhyehy[e no ntam w] kasa nkorabata abien no mu. Esiane eyi nti, sentase nhyehy[e biara ase no, mede PRAAT no susuu selaboro biara a [da adi w]n sentase nhyehy[e biara mu w] ]kasafo biara kasa mu w] h[[se (Hertz) mu. Mii kan susuu Akuapemfo mmarima peekye aba a [da selaboro biara so w] sentase nhyehy[e biara ase [na mede 'Microsoft Excel' hwehw[[ emu biara miini (Mean/Average). Saa ara nso na mey[[ Akuapem mmea nso de. Miwiei no, mesan hwehw[[ Akuapem mmarima ne mmea no nyinaa miini na mede totoo Asante akasafo peekye aba ahorow no miini a menam saa kwan koro no so ara ahwehw[ no. S[ ebia;

Akuapem:

Akuapem mmarima miini = Ak. mmarima akasafo peekye aba (Ak. Male Pitch values)

Ak. Mmarima akasafo dodow (No. of Ak. Males)

Akuapem mmea miini = Ak. mmea akasafo peekye aba (Ak. Female Pitch values)

Ak. Mmea akasafo dodow (No. of Ak. Females)

Akuapem akasafo miini = Ak. mma. & mmea miini (Mean of Ak. M & F speakers)

2

Asante:

Asante mmariama miini = As. mmariama akasafo peekye aba (As. Male Pitch values)

As. Mmarima akasafo dodow (No. of As. Males)

Asante mmea miini = As. mmea akasafo peekye aba (As. Female Pitch values)

As. Mmea akasafo dodow (No. of As. Females)

Asante akasafo miini = As. mma. & mmea miini (Mean of As. M & F speakers)

2

Kasa biara akasafo no miini a minyae no, mede totoo ]kasa foforo no de ho w] sep[togram so hw[[ s[ saa sentase nhyehy[e no toonu nhyehy[e y[ p[ w] akasa abien no mu anaas[ nsonsonoe w] mu. Ade biako a [s[ s[ y[hy[ no nso ne s[, esiane s[ [sono ]kasafo biara ne ne peekye anoden nti, ebetumi aba s[ toonu ahorow bi y[ p[ w] kasa abien no mu nanso [no nkyer[ s[ w]n peekye aba no b[y[ p[. S[ [ba no saa nso a, nsonsonoe no nhy[ da ny[ pii biara saa. }fa yi fa a edi kan no b[hw[ sentase nhyehy[e a w]n toonu nhyehy[e no y[ p[ na ]fa a [to so abien no nso ahw[ nea nsonsonoe w] mu w] kasa nkorabata abien no mu.

#### 4.1 Sentase nhyehy[e binom a w]n toonu nhyehy[e y[ p[

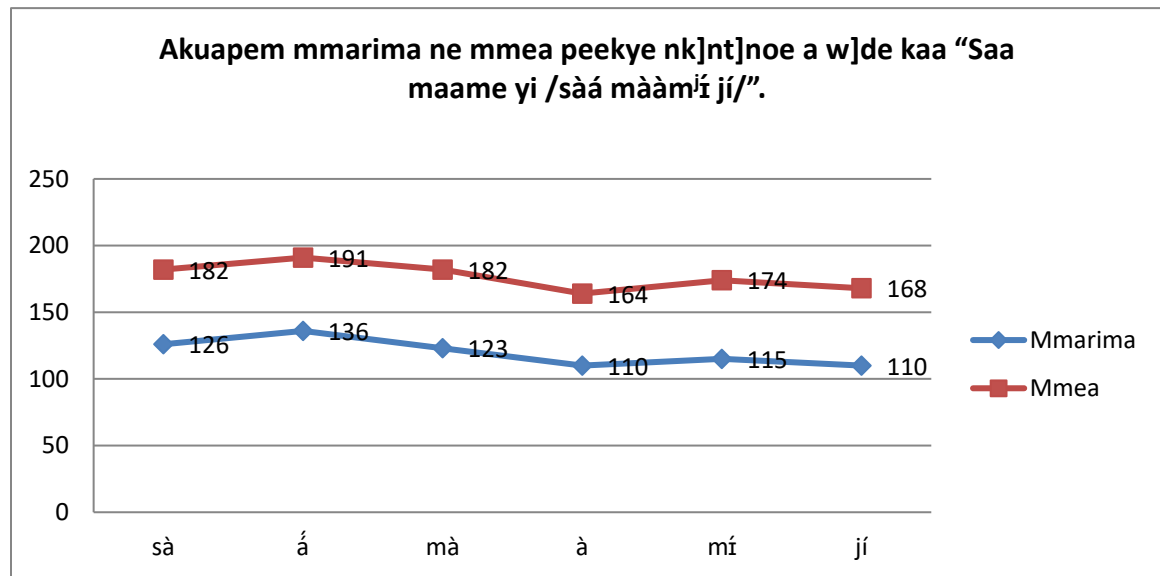
Saa ]fa kumaa yi b[hw[ akusteke mp[ns[mp[ns[mu a [k]] so w] sentase nhyehy[e ahorow bi a metasee de dii dwuma yi a w]n toonu nhyehy[e y[ p[ w] Akuapem ne Asante mu. Sentase nhyehy[e ahorow pii na w]n toonu nhyehy[e y[ p[ w] Akuapem ne Asante Twi mu nanso esiane s[nea dwumadi yi te nti no, kakra yi a mereb[kyer[ yi p[ na metase de dii dwuma yi.

##### 4.1.1(a). Edin kasasin a ne nhyehy[e y[ anim nkyer[mu “Saa” ne edin ne oyikyer[ (Akuapem Akasafo)

Edin kasasin a ne nhyehy[e kura anim nkyer[kyer[mu “Saa” ne edin as[m a oyikyer[ toa so no y[ sentase nhyehy[e no mu baako a ne toonu nhyehy[e y[ p[ w] Asante ne Akuapem Twi mu. Sei na Akuapem mmariima akasafo abiesa ne Akuapem mmea akasafo abiesa a mede w]n dii dwuma yi no peekye mma (F0) te w] ]pon ne mfonini a edi so yi mu. Edin kasasin a misusuu emu selaboro biara peekye no ne “Saa maame yi”.

}pon 1. Akuapem mmariima ne mmea peekye miini a w]de kaa as[m “Saa maame yi /sàá mààm’í jí”.

Selaboro	sà	á	mà	à	mí	jí
Mmarima	126	136	123	110	115	110
Mmea	182	191	182	164	174	168



*Mfonini 1: Akuapem mmarima ne mmeae peekye*

Mfonini 1 a [w] soro h] yi y[ Akuapem mmea ne mmarima peekye miini a w]de kaa ]kasin “Saa maame yi” ekita selaboro ahorow nsia (6). S[ y[hw[ mmarima no peekye kyer[p[n a w]de kaa selaboro ahorow a epue w] as[m no mu no a, [hy[ ase fi 110Hz kosi 136Hz [na mmeae no de no hy[ ase fi 164Hz kosi 182Hz. S[ y[hw[ ]fa abien no a, [da no adi s[, selaboro biara so no, mmea no peekye no w] soro sen mmarima no de s[nea [te no nanso peekye nk]nt]noe no de, ne sorok] ne famba no nyinaa rey[ ay[ p[ w] selaboro ahorow no so. Selaboro a edi kan no w] fam [na nea [t] so abien no w] soro. Nea [t] so abiesa ne anan no nyinaa nso y[ fam fam nanso yehu s[ nea [t] so abiesa no F0 no w] soro sen nea [t] so anan no. Selaboro a [t] so anum no nso kita soro peekye nanso s[ y[de toto nea [t] so abien no



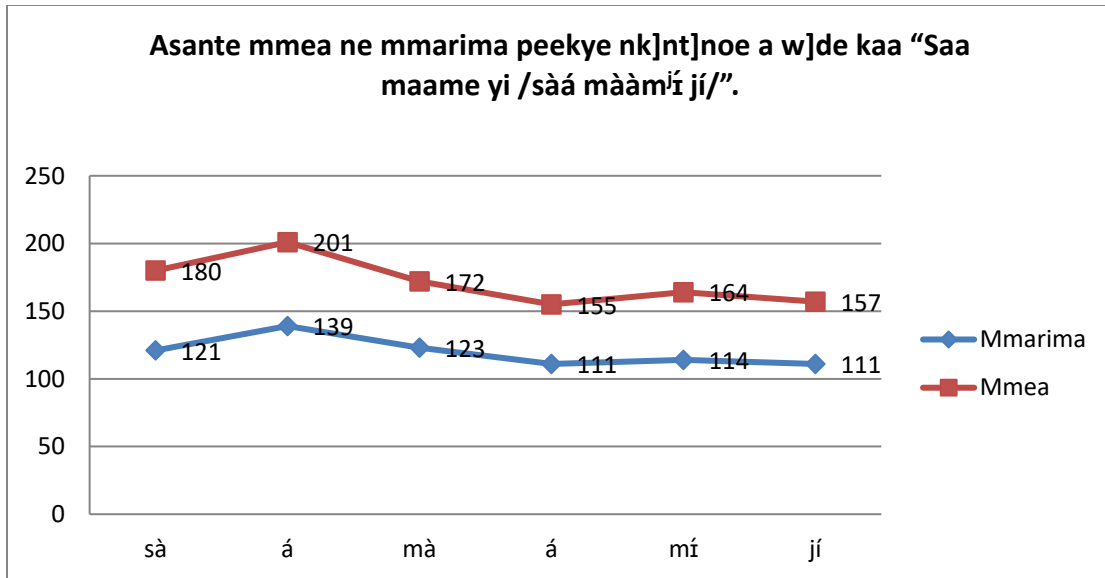
a [no nso y[ soro no F0 no ho a, selaboro a [t] so abien no F0 no w] soro sen nea [t] so anum no efis[ selaboro a [t] so abien ne abiesa no nyinaa kita fam peekye nti ahuan nea [t] so anum no soro peekye no so ama ay[ famgyina soro. Selaboro a etwa to no nso y[ soro nanso ne F0 no y[ w] fam sen fam peekye a [so selaboro a edi kan no F0 no. Eyi kyer[ famk] s[nea Dolphyne (2006) ne Abakah (2010) kyer[ no.

#### 4.1.1 (b) Edin kasasin a ne nhyehy[e y[ anim nkyer[mu “Saa” ne edin ne oyikyer[ (Asante Akasafo).

Sei na Asante mmарima akasafo abiesa ne Asante mmea akasafo abiesa a mede w]n dii dwuma yi no peekye mma (F0) te w] ]pon ne mfonini a edi so yi mu. Edin kasasin a misusuu emu selaboro biara peekye no ne “Saa maame yi /sàá mààmí’”.

]pon 2. Asante mmарima ne mmea peekye miini a w]de kaa as[m “Saa maame yi /sàá mààmí jí’”.

Selaboro	sà	á	mà	à	m’í	jí
Mmarima	121	139	123	111	114	111
Mmea	180	201	172	155	164	157



*Mfonini 2: Asante mmea ne mmarima peekye*

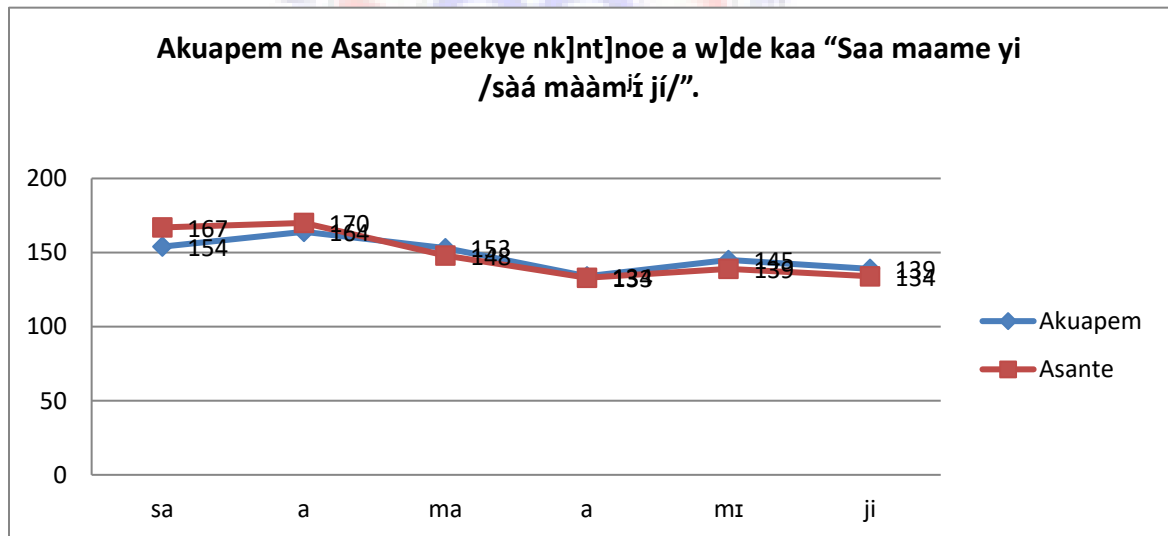
Mfonini 2 a [w] soro h] yi nso y[ Asante mmea abiesa ne mmarima abiesa peekye miini a w]de ka ]kasasin “Saa maame yi /sàá mààm’í jí/”. Mfonini no ma yehu s[, Asantefo mmarima no peekye kyer[p[n no hy[ ase fi 111Hz kosi 139 saa ara nso na mmea no nso de no hy[ ase fi 155Hz kosi 201Hz. Selaboro biara so no, [da adi s[, mmea peekye no w] soro sen mmarima no de no. {san da adi s[, selaboro a [t] so abiesa ne anan no nyinaa y[ fam peekye a ahuan soro peekye a [w] selaboro a [t] so anum no mu ama ab[y[ famgyina soro selaboro a ne peekye no w] fam sen soro selaboro a ew] selaboro a [t] so abien no mu no. }fa abien no nyinaa mu no nso, soro peekye a [w] selaboro a etwa to no so w] fam mpo sen fam selaboro a epue w] as[m no ahy[ase no.

**4.1.1 (d) Edin kasasin a ne nhyehy[e y[ anim nkyer[mu “Saa” ne edin ne oyikyer[ (Akuapem ne Asante Akasafo)**

S[nea madi kan ada no adi no, sentase nhyehy[e yi a mab] so yi toonu nhyehy[e y[ p[ w] Asante ne Akuapem Twi mu. }fa yi de Akuapem mmea ne mmarima peekye no miini b[toto Asante mmea ne mmarima peekye no miini a [daa adi w] selaboro ahorow a [wow] sentase nhyehy[e no mu no ho. Eyi b[da adi w] ]pon ne mfonini a edi so yi mu.

}pon 3. Akuapem ne Asante peekye miini a w]de kaa as[m “Saa maame yi /sàá mààmí jí/”.

Selaboro	sà	á	mà	à	mí	jí
Akuapem	154	164	153	134	145	139
Asante	167	170	148	133	139	134



*Mfonini 3. Akuapem ne Asante akasafo peekye*

Mfonini a [w] soro h] yi ma yehu s[ Akuapem ne Asante toonu nhyehy[e a w]de ka ]kasasin a mab] so no y[ p[. Peekye nk]nt]noe ho mfonini no kyer[ s[, koroy[ bi w] peekye nk]nt]noe a [w] sentase nhyehy[e no mu no mu. S[ y[de kasa abien yi F0 ahorow a w]de kaa selaboro

ahorow no ho no b[toto ho a, peekye kyer[p[n a [w] Akuapem kasa no mu no hy[ ase fi 134Hz kosi 164Hz saa ara nso na Asante peekye kyer[p[n no hy[ ase fi 133Hz kosi 170. Kasa abien no nyinaa mu no, [da adi s[ selaboro a [t] so anan no na [w] fam pa ara saa ara nso na selaboro a [t] so abien no na [w] soro pa ara. F0 kyer[p[n a [da adi w] kasa abien no nyinaa mo no nso bemm[n ho pa ara a [ma yehu s[ koroy[ a [da adi w] mu no y[ den.

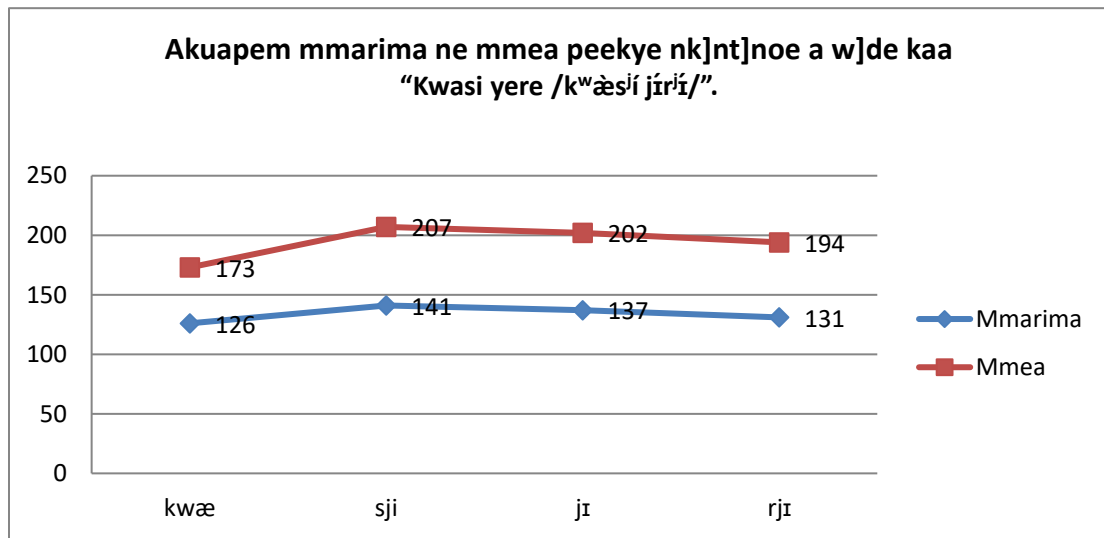
Kasa abien no nyinaa mu nso, soro peekye a [so selaboro a [t] so anum a ne F0 y[ 145Hz w] Akuapem mu ne 139Hz w] Asante mu no nyinaa w] fam sen soro peekye a [so selaboro a [t] so abien a w]n F0 y[ 164Hz w] Akuapem mu ne 170Hz w] Asante mu. Eyi da no adi s[, selaboro a [t] so anum w] kasa abien no nyinaa mu no soro peekye no so ahuan esiane fam peekye abien a [soso selaboro a [t] so abiesa ne anan no. Afei nso famk] nso da adi w] kasa abien no nyinaa mu esiane s[ selaboro a etwa to a ekita soro peekye no F0 no mpo w] fam sen fam peekye a a [so selaboro a edi kan no. Saa akusteke mp[ns[mp[ns[mu yi ma yehu s[, Asante ne Akuapem toonu nhyehy[e a w]de ka edin kasasin a ne nhyehy[e y[ anim nkyer[kyer[mu “Saa” ne edin ne oyikyer[ no y[ p[.

#### **4.1.2(a) Edin kasasin a [y[ ]dede nhyehy[e a ekita edin ne abusuab]din a ekita Soro-Soro toonu nhyehy[e (Akuapem Twi)**

Edin kasasin a [y[ ]dede nhyehy[e a ekita edin ne abusuab]din a ekita soro-soro toonu nhyehy[e no nso y[ sentase nhyehy[e no bi a ne toonu nhyehy[e no y[ p[ w] Akuapem Twi ne Asante Twi mu. Sei na Akuapem akasafo a mede w]n dii dwuma no peekye mma (F0) a w]de kaa “Kwasi yere” te w] ]pon ne mfonini a edi so yi mu.

Ɲpon 4. Akuapem mmarima ne mmea peekye miini a w]de kaa as[m “Kwasi yere /k<sup>w</sup>æ̀sǐ́ jí́rǐ́/”.

Selaboro	k <sup>w</sup> æ̀	sǐ́	jǐ́	rǐ́
Mmarima	126	141	137	131
Mmea	173	207	202	194



*Mfonini 4: Akuapem mmarima ne mmeae peekye*

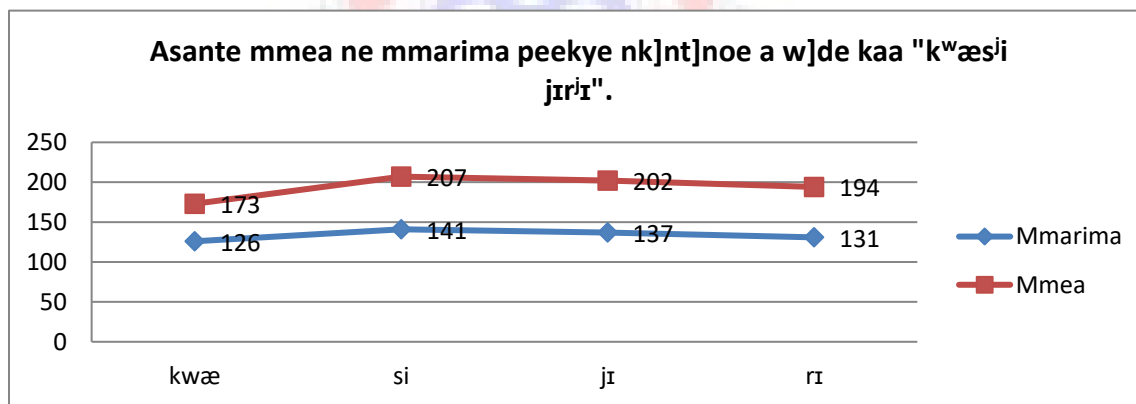
Mfonini a [w] soro ha yi no y[ Akuapem mmea ne mmarima peekye mma a w]de kaa edin kasasin “Kwasi yere /k<sup>w</sup>æ̀sǐ́ jí́rǐ́/”. }fa abien no peekye kyer[p[n a epuei w] as[m yi mu no ne s[ mmarima no de no hy[ ase fi 126Hz kosi 141Hz saa ara nso na mmea no de no hy[ ase fi 173Hz kosi 207Hz. S[nea y[ahu dedaw no, mp[n pii no mmea no peekye no w] soro sen mmarima peekye s[nea mfonini no da no adi no. Afaanu no nyinaa mu no, yehu s[, selaboro a edi kan no w] fam [naa nea aka no nyinaa w] soro nanso soro peekye a [so selaboro [t] so abien no w] soro sen nea [t] so abiesa no saa ara nso na nea [t] so abiesa no nso w] soro sen nea [t] so anan no. Eyi ma yenya FSSS toonu nhyehy[e.

#### 4.1.2(b) Edin kasasin a [y] ]dede nhyehy[e a ekita edin ne abusuab]din a ekita Soro-Soro toonu nhyehy[e (Asante Twi)

Sei na Asante mmarima akasafo abiesa ne Asante mmea akasafo abiesa a mede w]n dii dwuma yi no peekye mma (F0) a [w] ]kasasin “Kwasi yere / k<sup>w</sup>æsi jiri/” te w] ]pon ne mfonini a edi so yi mu.

}pon 5. Asante mmarima ne mmea peekye miini a w]de kaa as[m “Kwasi yere /k<sup>w</sup>æsi jiri/”.

Selaboro	k <sup>w</sup> æ	sí	jí	rí
Mmarima	125	148	141	133
Mmea	179	223	203	185



*Mfonini 5: Asante mmarima ne mmea peekye*

Mfonini a [w] soro h] yi y[ Asante mmea ne mmarima a mede w]n dii dwuma no peekye a w]de kaa ]kasasin “Kwasi yere / k<sup>w</sup>æsi jiri/” no peekye nk]nt]noe ho mfonini. Asante mmarima no peekye kyer[p]n a [daa adi no hy] ase fi 126Hz kosi 141Hz saa ara nso na mmea no de hy] ase fi 173Hz kosi 207Hz. Afa abien no nyinaa mu no, selaboro a [w] soro

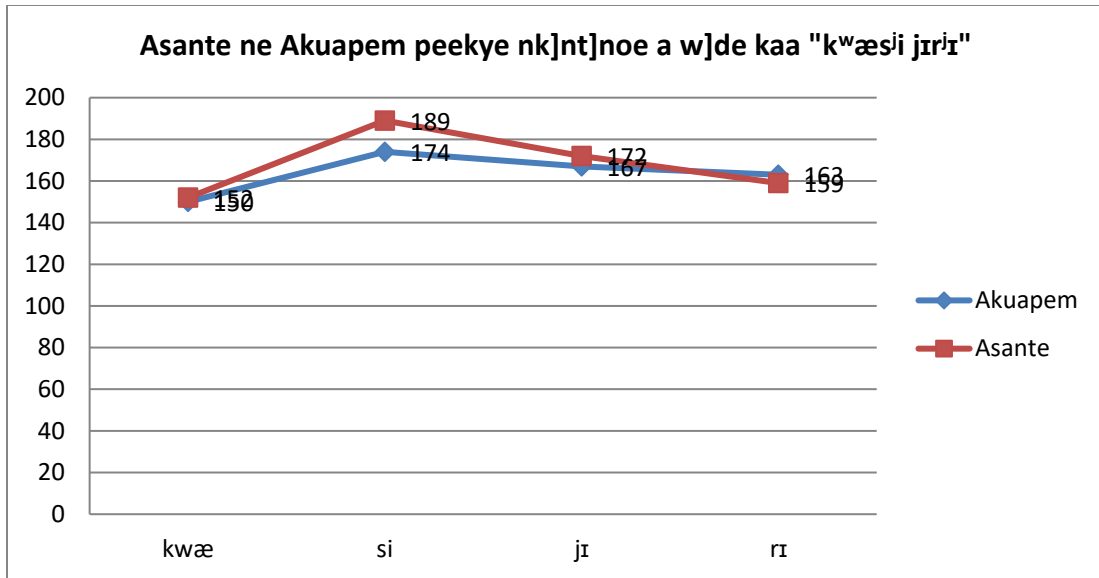
pa ara y[ selaboro a [t] so abien saa ara nso na nea [w] fam pa ara no ne selaboro a edi kan no. Afaanu no nyinaa nso da no adi s[, selaboro a [t] so abien kosi anan no nyinaa so soro peekye nanso fi emu biara k] ]foforo so no, w]n F0 no so huan nkakrankakra.

#### 4.1.2 (d) Edin kasasin a [y[ ]dede nhyehy[e a ekita edin ne abusuab]din a ekita Soro-Soro toonu nhyehy[e (Akuapem ne Asante Akasafo)

}fa yi de peekye miini a [da adi w] w]n mmea ne mmarima akasafo no mu no b[toto ]kasa foforo no de ho. {b[y[ Akuapem ne Asante peekye mma a epuei w] mmarima ne mmea akasafo no miini ahorow no ntotoho ahw[ s[ sentase nhyehy[e no toonu nhyehy[e no y[ p[ w] akasa abien no mu anaa. Akuapem akasafo peekye mma ne Asante akasafo no peekye mma a w]de kaa “Kwasi yere /k<sup>w</sup>æ̀sɪ́ jíɾí/” no na [w] ]pon ne mfonini a edi so yi mu yi.

]pon 6. Akuapem ne Asante peekye miini a w]de kaa as[m “Kwasi yere /k<sup>w</sup>æ̀sɪ́ jíɾí/”.

Selaboro	k <sup>w</sup> æ̀	sɪ́	jí	ɾí
Akuapem	150	174	167	163
Asante	152	189	172	159



*Mfonini 6: Asante ne Akuapem peekye*

Mfonini yi da no adi s[ toonu nhyehy[e a ekita sentase nhyehy[e a [y[ edin kasasin a ekita edin ne abusuab]din a ekita soro-soro toonu nhyehy[e no y[ p[ w] Akuapem Twi ne Asante Twi mu. Peekye kyer[p[n a [da adi w] Akuapem nkorabata no mu no hy[ ase fi 150Hz kosi 174 Hz saa ara nso na Asante Twi nkorabata no nso de no hy[ ase fi 152Hz kosi 189Hz.

Kasa nkorabata abien no nyinaa mu no, [da adi w] ]pon no ne mfonini no so s[, w]n mu biara no, selaboro a [t] so abien no na ne F0 no w] soro pa ara saa ara nso na selaboro a edi kan no na ne F0 no w] fam pa ara. Afei nso yehu s[, kasa abien no nyinaa mu no, fi selaboro a [t] so abien kosi selaboro a [t] so anan no nyinaa peekye no w] soro nanso yehu s[ nsianee kakra da adi fi nea [t] so abien no ara kosi nea etwa to no. Akuapem nkorabata no mu no, yehu s[ nsianee a [da adi fi selaboro a [t] so abien kosi anan no y[174Hz, 167Hz ne 163Hz saa ara nso na Asante de no y[ 189Hz, 172Hz ne 159Hz. Nsianee



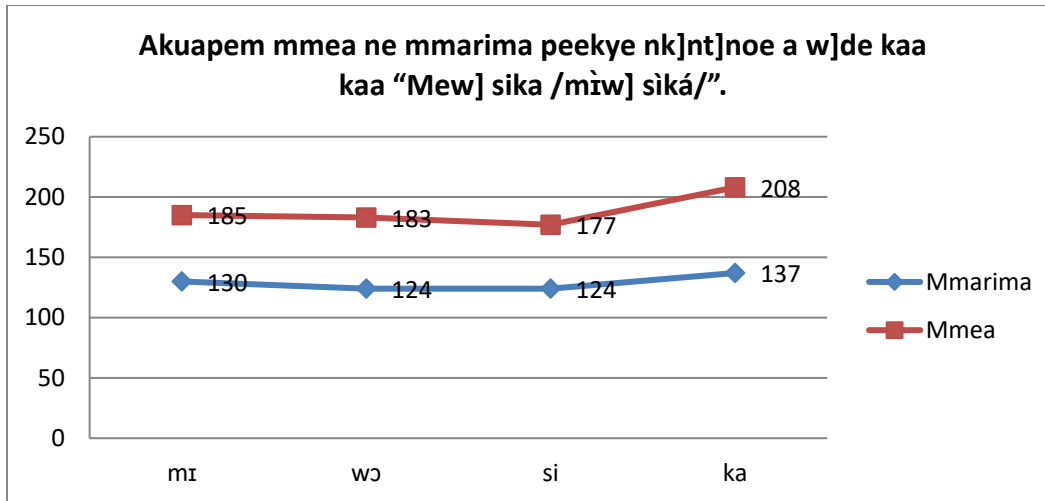
ahorow a [k] so w] kasa abien no mu ne w]n peekye mma no di adanse s[ Asante ne Akuapem toonu nhyehy[e a w]de ka sentase nhyehy[e a merep[ns[mp[ns[m mu yi y] p[.

**4.1.3(a) }kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ ]dede “w)” ne adey[ akyi din. (Akuapem Twi)**

}kasamu tiawa a ne nhyehy[e y[ edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ ]dede “w)” ne adey[ akyi din nso y[ sentase nhyehy[e no mu biako a ne toonu nhyehy[e no y[ p[ w] Asante Twi ne Akuapem Twi nkorabata no mu. }kasamu a mepaw de y[[ saa mp[ns[mp[ns[mu yi ne “Mew] sika /mìw] sika’/”. Akuapem mmea ne mmarima a mepaw w]n de dii dwuma yi peekye mma a w]de a [w] selaboro ahorow a [w] sentase nhyehy[e yi mu yi na edi so yi.

}pon 7: Akuapem mmea ne mmarima peekye a w]de kaa “Mew] sika /mìw] sika’/”.

Selaboro	m]i	w]	s]i	ká
Mmarima	130	124	124	137
Mmea	185	183	177	208



*Mfonini 7: Akuapem mmarima ne mmea peekye*

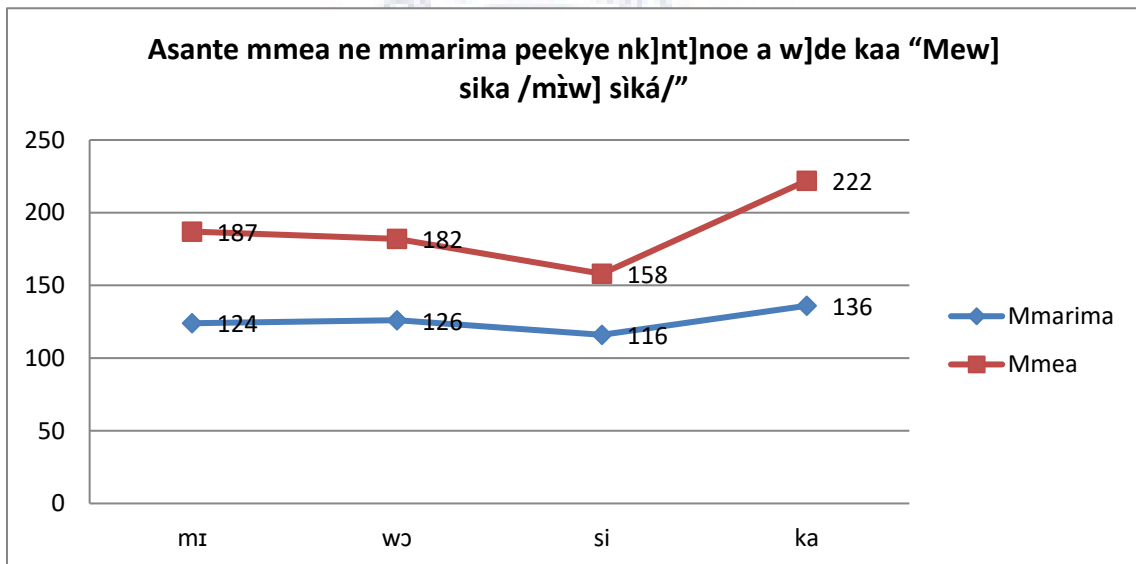
Mfonini yi y[ peekye nk]nt]noe a epuei w] Akuapem mmea ne mmarima akasafo no peekye mma a [daa adi w] selaboro ahorow a [w] sentase nhyehy[e a [w] soro h] yi mu. Peekye kyer[p]n a [w] mmarima no kasa no mu no hy[ ase fi 124Hz kosi 137Hz saa ara nso na mmea no de no hy[ ase fi 177Hz kosi 208. Yehu s[ afaanu no nyinaa selaboro a edi kan kosi nea [t] so abiesa no nyinaa y[ fam peekye [na nea [t] so anan no w] soro. Mmea no de no mu no, selaboro a edi kan kosi abiesa no peekye mma no so tew kakra nanso mmarima no de no mu de, selaboro a edi kan no peekye aba no na [w] soro 6Hz nanso abien ne abiesa no peekye mma no de [y[ p]. Mmom no, eyi nhy[ da mfa nsonsonoe biara mm[to w]n toonu nhyehy[e no mu.

**4.1.3(b) }kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ ]dede “w]” ne adey[ akyi din. (Asante Twi)**

Asante mmarima ne mmea akasafo ahorow a mede w]n dii dwuma no nso, sei na w]n peekye mma (F0) a [w] ]kasamu tiawa kaa “Mew] sika /mìw] sika/” te w] ]pon ne mfonini a edi so yi mu.

}pon 8. Akuapem mmea ne mmarima peekye a w]de kaa kaa “Mew] sika /mìw] sika/”

Selaboro	m]i	w]	s]i	ká
Mmarima	124	126	116	136
Mmea	187	182	158	222



*Mfonini 8: Asante mmea ne mmarima peekye*

Mfonini a [kyer[ Asantefo mmea ne mmarima peekye mma a epuei w] sentase nhyehy[e “Mew] sika /mìw] sika/” kyer[ s[ mmea no peekye kyer[p[n no hy[ ase fi 158Hz a [y[ selaboro a [t] so abiesa kosi 222hz a [y[ selaboro a [t] so anan. Mmarima de no nso hy[ ase fi 116 a [no nso y[ selaboro a [t] so abiesa kosi 136Hz a [no nso y[ selaboro a [t] so

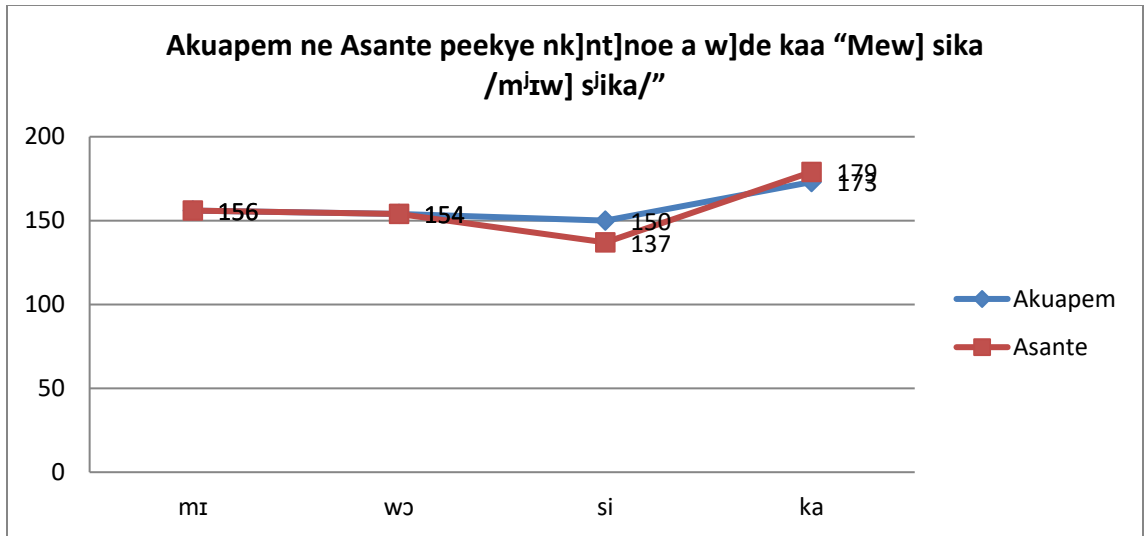
anan saa ara. Mmea no peekye nk]nt]noe no da no adi s[, fam peekye a efi selaboro a edi kan kosi nea [t] so abiesa no mma no so tew w] selaboro biara so. Mmarima no de no de, selaboro a edi kan peekye aba no k] so 2Hz ansa na [so asan atew w] selaboro a [t] so abiesa no nanso eyi mfa nsonsonoe p]tee biara nhy[ da mma w]n toonu nhyehy[e no mu.

**4.1.3(d) }kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ ]dede “w” ne adey[ akyi din. (Akuapem ne Asante Twi)**

}fa yi de Akuapem mmarima ne mmea peekye mma no miini b[toto Asante mmarima ne mmea peekye maa no miini no ho akyer[ s[ kasa nkorabata no toonu nhyehy[e a [w] sentase nhyehy[e yi mu no y[ p[. Eyi da adi w] ]pon ne mfonini a edi so yi so.

}pon 9. Akuapem ne Asante akasafo peekye a w]de kaa kaa “Mew] sika /mìw] sika’/”

Selaboro	m]i	w]	s]i	ká
Akuapem	156	154	150	173
Asante	156	154	137	179



*Mfonini 9: Akuapem ne Asante peekye*

Mfonini no y[ Asante ne Akuapem akasafo no peekye nk]nt]noe a y[de atoto ho. Akuapem peekye kyer[p[n no hy[ ase fi 150Hz a [w] selaboro a [t] so abiesa so kosi 173Hz a [no nso y[ selaboro a [t] so anan. Saa kwan no ara so no, Asante peekye kyer[p[n no hy[ ase fi 137Hz a [no nso y[ selaboro a [t] so abiesa kosi 179Hz a [no nso y[ selaboro a [t] so anan. Kasa nkorabata abien no mu no, mfonini no ma yehu s[ selaboro a edi kan ne nea [t] so abien no nyinaa F0 no y[ 156Hz ne 154Hz. Eyi di adanse s[ kasa nkorabata abien no nyinaa peekye mma a w]de kaa selaboro a edi kan ne nea [t] so abien no nyinaa rey[ ay[ p[ a ne nyinaa so fam toonu. Kasa nkorabata abien no nyinaa mu no, selaboro a edi kan kosi nea [t] so abiesa no peekye mma no so tew a [da adi s[ ade koro no ara na [k] so w] kasa abien no mu. Nea [da adi w] mfonini no mu di adanse s[,]kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ ]dede “w” ne adey[ akyi din y[ sentase nhyehy[e a ne toonu nhyehy[e y[ p[ w] Asante ne Akuapem kasa nkorabata no mu.

**4.1.4 (a) }kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ beae “w]” ne adey[ akyi din a edi dwuma s[ beae kyer[fo (Akuapem Twi).**

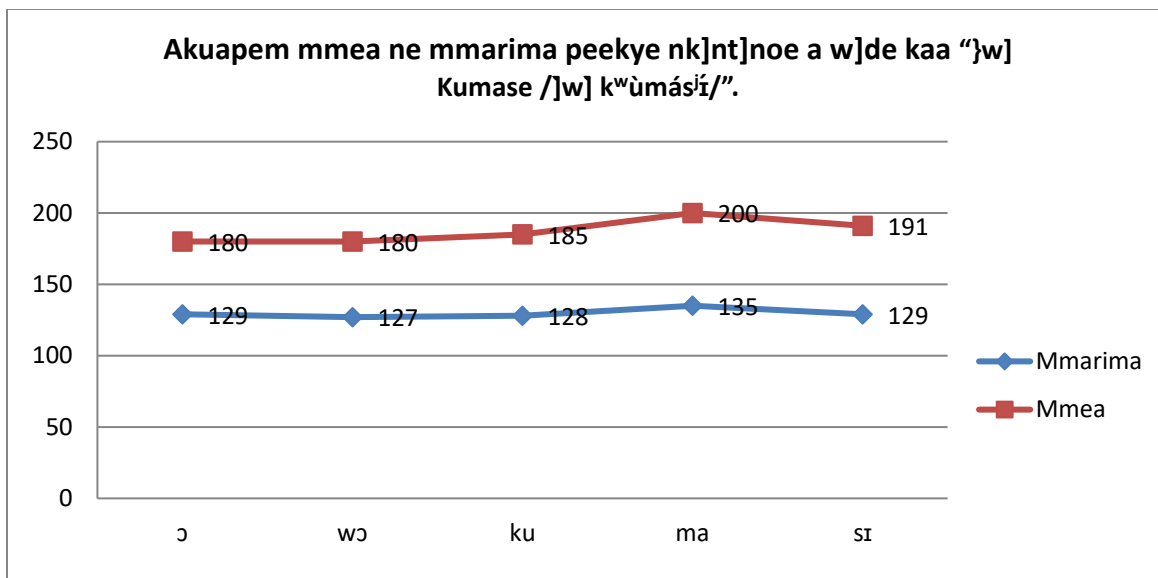
}kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ beae “w]” ne adey[ akyi din a edi dwuma s[ beae kyer[fo nso y[ sentase nhyehy[e no mu biako a ne toonu nhyehy[e w] Asante Twi kasa nkorabata ne Akuapem Twi kasa nkorabata no mu no y[ p[. }kasamu tiawa a edi saa nhyehy[e yi so a mepaw de y[[ akusteke mp[ns[mp[s[mu yi ne “}w] Kumase /]w] k<sup>w</sup>ùmá sí/”. Sei na Akuapem mmарima ne mmea peekye mma a [daa adi w] selaboro ahorow a [w] sentase nhyehy[e no mu no te w] ]pon ne mfonini a edi so yi mu.



**4.1.4 (b) }kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ beae “w]” ne adey[ akyi din a edi dwuma s[ beae kyer[fo (AsanteTwi).**

**}pon 10: Akuapem mmea ne mmарima peekye a w]de kaa “}w] Kumase /]w] k<sup>w</sup>ùmá sí/”.**

Selaboro	]	w]	k <sup>w</sup> ù	má	sí
Mmarima	129	127	128	135	129
Mmea	180	180	185	200	191



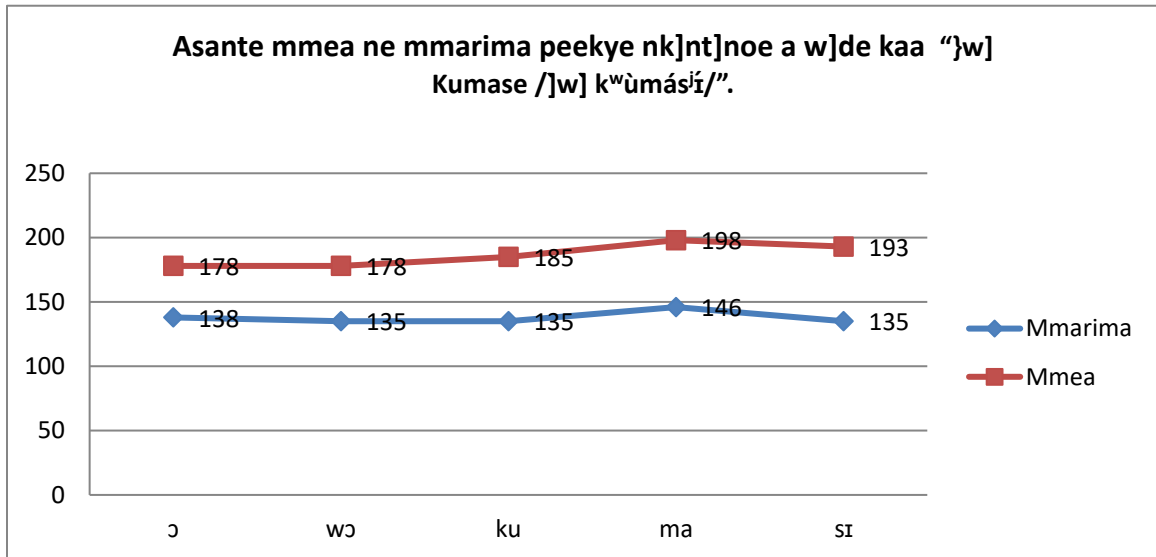
*Mfonini 10: Akuapem mmarima ne mmea peekye*

Mfonini no kyer[ peekye nk]nt]noe a [daa adi w] s[nea Akuapem mmea ne mmarima a mede w]n dii dwuma no kaa ]kasamu tiawa “}w] Kumase /}w] k<sup>w</sup>ùmásí/”. Mfonini no da no adi s[, peekye kyer[p[n a mmarima no de kaa as[m no hy[ ase fi 127Hz kosi 135Hz. Mmea no de no nso hy[ ase fi 127Hz kosi 200Hz. {da adi s[, mmea no F0 a [w] selaboro a edi kan ne nea [t] so abien a [so fam toonu no nyinaa y[ p[ a [no ne peekye a [w] fam pa ara w] nk]nt]noe no mu. Mmarima no de, selaboro a [t] so abien no na ekita peekye mma a [w] fam pa ara w] nk]nt]noe no mu nanso nsonsonoe a [da [ne nea edi kan no mu y[ 2Hz a [nhy[ da mfa nsonsonoe p]tee biara mma. Afaanu no nyinaa mu nso, [da adi s[ peekye a [w] selaboro a [t] so anan no so no so huan kakra w] selaboro a etwa to no so.

}pon 11: Asante mmea ne mmarima peekye a w]de kaa “}w] Kumase /}w] k<sup>w</sup>ùmásí/”.

Selaboro	ɔ	wɔ	k <sup>w</sup> ù	má	sí
Mmarima	138	135	135	146	135

Mmea	178	178	185	198	193
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*Mfonini 11: Asante mmarima ne mmea peekye*

Mfonini no y[ peekye nk]nt]noe a [kyer[ Asante mmea ne mmarima akasafo no peekye mma a w]de kaa “}w] Kumase /]w] k<sup>w</sup>ùmásí/”. Mmea no peekye kyer[p]n no hy[ ase fi 178Hz a [wow] selaboro a edi kan ne nea [t] so abien so esiane s[ ne nyinaa kita peekye mma baako kosi 198Hz a [so selaboro a [t] so anan no. Mmarima no nso peekye kyer[p]n no hy[ ase fi 135Hz a [no nso selaboro a [t] so abien no ka ho bi kosi 146Hz a [no nso so selaboro a [t] so anan no. Yehu s[, mmea no peekye mma hy[ ase fi selaboro a edi kan no so foro ara kosi nea [t] so anan a ekita soro peekye no na asan asane kakra w] nea [t] so anum a [no nso y[ soro no so nanso mmarima no fam de, mforoe no hy[ ase fi selaboro a [t] so abien no so esiane s[ nea edi kan no boro nea [t] abien no so 3Hz. Eyi mu biara ma y[n F-F-F-S-S toonu nhyehy[e a [mfa nsonsonoe biara mma afa abien no nhyehy[e mu.

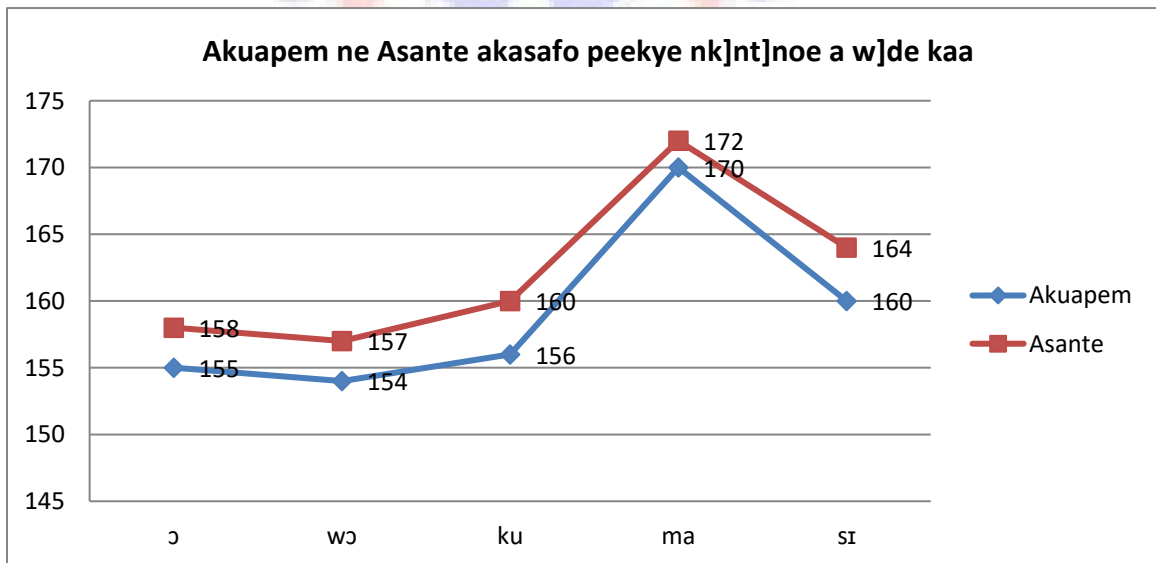


**4.1.4 (d) }kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ beae “w” ne adey[ akyi din a edi dwuma s[ beae kyer[fo (Akuapem Twi ne Asante Twi).**

}fa yi b[y[ Akuapem Twi ne Asante Twi nkorabata peekye miini ahorow a epuei w] w]n akasafo no selaboro ahorow no so no mu ntotoho. }pon ne mfonini a edi so yi b[ma y[ahw[ s[ kasa nkorabata no toonu nhyehy[e a w]de kaa sentase nhyehy[e no y[ p[ anaa.

}pon 12. Akuapem ne Asante akasafo peekye a w]de kaa “}w] Kumase /}w] k<sup>w</sup>ùmá sí/”.

Selaboro	ǰ	wǰ	k <sup>w</sup> ù	má	sí
Akuapem	155	154	156	170	160
Asante	158	157	160	172	164



*Mfonini 12: Akuapem ne Asante akasafo peekye*

Mfonini a [w] soro h] yi kyer[ peekye mma no miini a yenyaa w] Akuapem mmarima ne mmea akasafo ne Asante mmea ne mmarima akasafo no peekye mma no mu. Mfonini no ma yehu s[, peekye nk]nt]noe a [da adi w] kasa nkorabata ahorow abien no mu nyinaa y[ p[ [mfa ho s[ Asante peekye mma a [w] soro biara so no w] soro kakra sen Akuapem de no. S[ y[hw[ peekye kyer[p[n a [da adi w] Akuapem kasa no mu a, [hy[ ase fi 154Hz a [so selaboro a [t] so abien kosi 170Hz a [so selaboro a [t] so anan. Saa ara nso na Asante de no hy[ ase fi 157Hz a [so selaboro a [t] so abien koro no ara so kosi 172Hz a [no nso so selaboro a [t] so anan koro no ara.

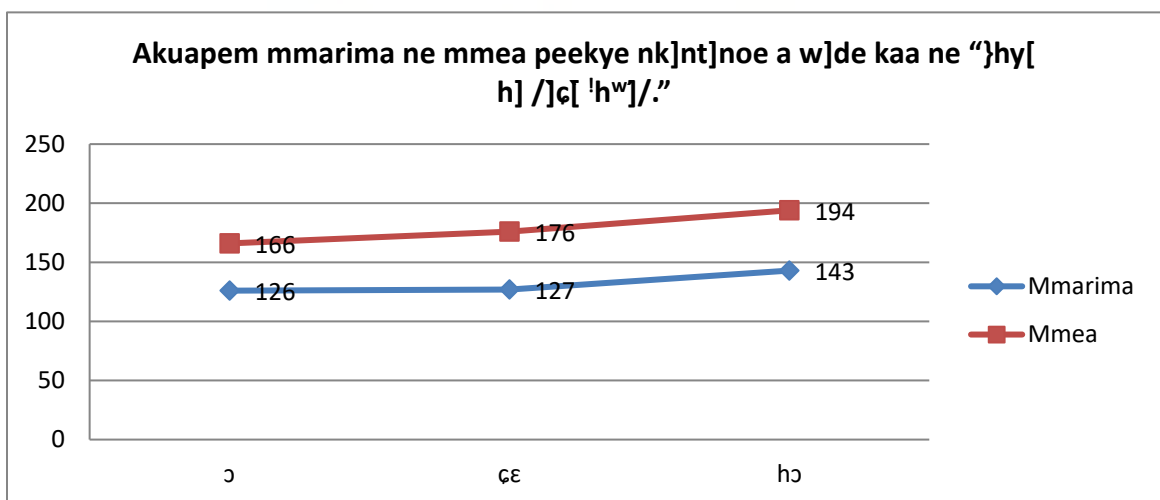
Kasa nkorabata abien no nyinaa mu no, peekye mma a [w] selaboro a edi kan no so huan w] selaboro a [t] so abien no so ansa na apagya kakra w] nea [t] so abiesa no so ansa na ak] soro peekye a [so selaboro a [t] so nan no so ansa na [no nso so ahuan kakra w] selaboro a [t] so anum no so. Selaboro a [t] so anum no nso na [y[ selaboro a s[ woyi nea [t] so anan no fi h] a ne peekye mma no w] soro pa ara. Eyi ma yehu s[, selaboro a [t] so anum no nso peekye no w] soro. Wei di adanse s[, kasa nkorabata abien no mu no, toonu nhyehy[e a w]de ka saa sentase nhyehy[e yi ne F-F-F-S-S. Yebetumi agyina mp[ns[mp[ns[mu yi so agye atom s[,]kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ beae “w” ne adey[ akyi din a edi dwuma s[ beae kyer[fo nso y[ sentase nhyehy[e no mu baako a ne toonu nhyehy[e w] Asante Twi kasa nkorabata ne Akuapem Twi kasa nkorabata no mu no y[ p[.

**4.1.5 (a) }kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ tebeae “hy[” ne edin akyi sibe a ekita selaboro baako (Akuapem Twi).**

}kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ tebea “hy[” ne edin akyi sibe a ekita selaboro baako (Akuapem Twi) so y[ sentase nhyehy[e no mu biako a ne toonu nhyehy[e no y[ p[ w] Asante Twi ne Akuapem Twi kasa nkorabata mu. }kasamu tiawa a mepaw ne de sii saa nhyehy[e yi anan mu de dii dwuma yi ne “}hy[ h] /]e[ 'hʷ]/.”

}pon 13: Akuapem mmea ne mmarima peekye a w]de kaa “}hy[ h] /]e[ 'hʷ]/.”

Selaboro	h]	e[	hʷ]
Mmarima	126	127	143
Mmea	166	176	194



*Mfonini 13: Akuapem mmarima ne mmea peekye*

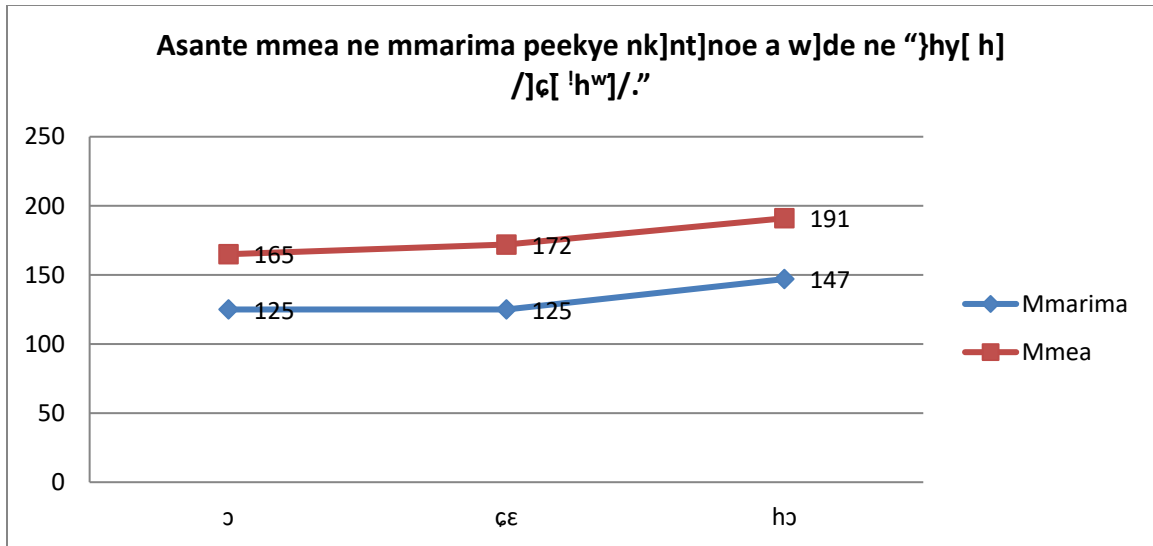
Mfonini no da peekye nk]nt]noe a Akuapem mmarima ne mmea de ka sentase nhyehy[e ne “}hy[ h] /]e[ 'hʷ]/.” Mmarima no peekye kyer[p[n a [da adi w] selaboro ahorow no so no hy[ ase fi 126Hz a [so selaboro a edi kan no kosi 143Hz a [no nso so selaboro a [t] so abiesa no. Mmea no nso peekye kyer[p[n no nso hy[ase fi 166Hz a [no nso so selaboro a edi kan no kosi 194 a [no nso so selaboro a [twa to no. Selaboro a edi kan ne nea [t] so abien nyinaa soso F toonu nanso yehu s[, afaanu no nyinaa mu no, nea [t] so abien no peekye mma no w] soro kakra sen nea edi kan no. {na afei nso w] afaanu no nyinaa mu no, selaboro a [t] so abiesa a [so S toonu no nso peekye mma no w] soro para ky[n nea aka no.

**4.1.5 (b) }kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ tebeae “hy[” ne edin akyi sibe a ekita selaboro baako (Asante Twi).**

Asante Twi mmarima akasafo abiesa ne mmea akasafo abiesa a mede w]n dii dwuma no nso, sei na w]n peekye mma a w]de kaa ne “}hy[ h] /]e[ 'hʷ]/” no da adi w] ]pon ne mfonini a edi so no so.

}pon 14: Asante mmea ne mmarima peekye a w]de kaa “}hy[ h] /]e[ hʷ]/.”

Selaboro	] ]	e[ ]	hʷ]
Mmarima	125	125	147
Mmea	165	172	191



*Mfonini 14: Asante mmарima ne mmea peekye*

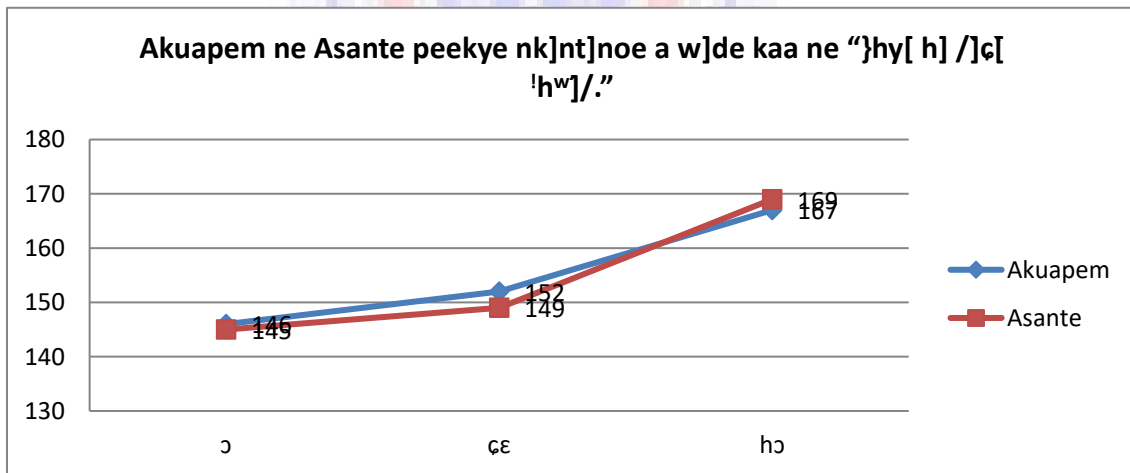
Mfonini no kyer[ s[nea peekye nk]nt]noe a Asante mmea akasafo a mede w]n dii dwuma no ne Akuapem mmарima akasafo a mede w]n dii dwuma no peekye nk]nt]noe a w]de kaa ne “}hy[ h] /]e[ 'hʷ]/” no te. Mfonini da no adi s[, mmарima no peekye kyer[p[n a w]de kaa as[m no hy[ ase fi 125Hz a [so selaboro a edi kan ne nea [t] so abien esiane s[ ne nyinaa peekye mma no y[ p[ so kosi 191Hz a [so selaboro a etwa to no. Mmea no afa mu nso, w]n peekye kyer[p[n no hy[ ase fi 165Hz a [so selaboro a edi kan no kosi 191Hz a [no nso so selaboro a [t] so abiesa no. {da adi s[, mmea no afa mu de selaboro a [t] so abien a [so F toonu no peekye mma no w] soro nea edi kan a [no nso y[ F toonu no kakra nanso mmарima no afa mu de mma no y[ p[. Afei nso, afaanu no nyinaa selaboro a etwa to a [so S toonu no nso da w]n ho adi saa w] w]n peekye mma no mu.

**4.1.5 (d) }kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ tebea “hy[” ne edin akyi sibe a ekita selaboro baako (Asante Twi ne Akuapem Twi).**

S[nea yebehu s[ ]kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ tebea “hy[” ne edin akyi sibe a ekita selaboro baako toonu nhyehy[e y[ p[ no, ]pon ne mfonini a edi so yi de kasa abien no mmea ne mmarima peekye mma no b[toto ho ahw[ s[ nk]nt]noe no y[ p[ a.

}pon 15: Akuapem ne Asante peekye a w]de kaa “}hy[ h] /}e[ ]h^w]//”.

Selaboro	] ]	e[ ]	h^w]
Akuapem	146	152	167
Asante	145	149	169



*Mfonini 15: Akuapem ne Asante peekye*

Mfonini no da Akuapem mmariima ne mmea peekye mma no miini ne Asante mmea ne mmariima nso peekye mma no miini no ntotoho adi.

Kasa abien no peekye nk]nt]noe no da no adi s[, Akuapem peekye mma no kyer[p[n no hy[ ase fi 146Hz a [so selaboro a edi kan no kosi 167Hz a [no nso so selaboro a [t] so anan no. Asante akasafo no nso peekye kyer[p[n no hy[ ase fi 145Hz a [so selaboro a edi kan no kosi 169Hz a [no nso so selaboro a [t] so anan no. Kasa abien no nyinaa selaboro a [t] so abien no peekye mma no w] soro kakra sen nea edi kan a [no nso so F toonu no. Soro toonu a etwa to no nso peekye mma no w] soro pa ara sen selaboro a aka no w] kasa abien no nyinaa mu.

Eyi da adi s[, kasa abien no nyinaa toonu nhyehy[e a [da adi w] sentase nhyehy[e no mu no y[ F-F-S. S[ y[hw[ selaboro a edi kan no w] kasa abien no mu a, [da adi s[, peekye aba 1Hz p[ na Akuapem de sen Asante. Nea [t] so abien no mu nso, 3Hz p[ na Akuapem de sen Asante [na afei nea [t] so abiesa no nso 2Hz na Asante de sen Akuapem. Eyi ma yehu s[ peekye mma a [w] selaboro biara so no bemm[n ho pa ara w] kasa abien no mu. Eyi di adanse s[, ]kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adeg[ a [kyer[ tebea “hy[” ne edin akyi sibe a ekita selaboro baako toonu nhyehy[e y[ p[ w] Akuapem ne Asante kasa mu.

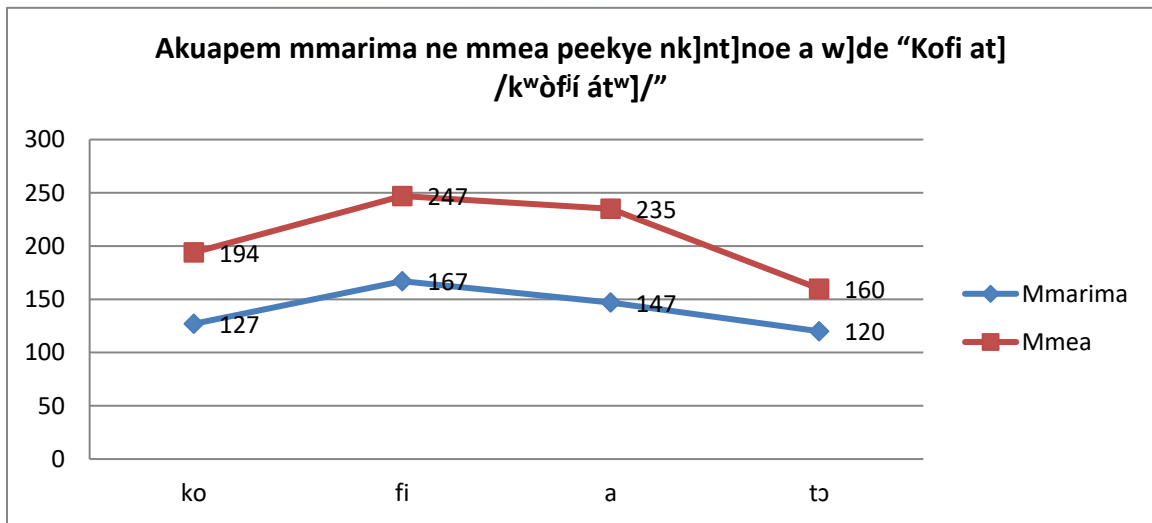
**4.1.6 (a) }kasamu tiawa a ekita edin as[m a edi dwuma s[ ]y[fo ne adeg[ as[m a [w] ay[asie kabea mu (Akuapem).**

}kasamu tiawa a ekita edin as[m a edi dwuma s[ ]y[fo ne adeg[ as[m a [w] ay[asie kabea mu y[ sentase nhyehy[e a ne toonu nhyehy[e no y[ p[ w] Akuapem ne Asante Twi kasa no mu biako. }kasamu tiawa a mepaw de sii sentase nhyehy[e yi anan mu ne “Kofi at] /k<sup>w</sup>òfí

átʷ]ʼ. Sei na Akuapem mmea ne mmarima akasafo a mede w]n dii dwuma no peekye a w]de kaa as[m no da adi w] ]pon ne mfonini a edi so no mu.

}pon 16: Akuapem akasafo peekye a w]de kaa “Kofi at] /kʷòfí á tʷ]ʼ”

Selaboro	kʷò	fí	á	tʷ]
Mmarima	127	167	147	120
Mmea	194	247	235	160



Mfonini 16: Akuapem mmea ne mmarima peekye

Mfonini no da peekye mma a [daa adi w] Akuapem mmarima ne mmea akasafo no peekye a w]de kaa as[m no adi. Mfonini no ma yehu s[, peekye kyer[p[n a mmarima no de kaa as[m no hy[ ase fi 120Hz a [so selaboro a etwa to no kosi 167Hz a [so selaboro a [t] so abien no. Mmea no fam nso, peekye kyer[p[n no hy[ ase fi 160Hz a [no nso so selaboro a etwa to no kosi 247Hz a [no nso so selaboro a [t] so abien saa ara. Toonu nhyehy[e a ekita sentase nhyehy[e no y[ F-S-S-F a S toonu a edi kan no peekye mma no w] soro sen nea [t]



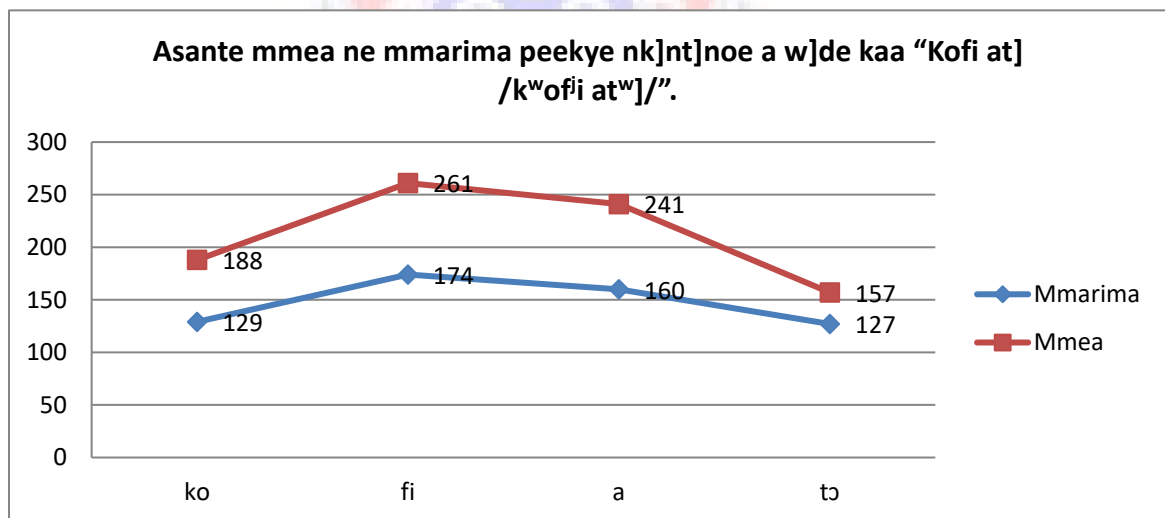
so abien no w] afaanu no nyinaa mu. F toonu a edi kan no nso peekye mma no w] soro sen F toonu a etwa to no.

**4.1.6 (b) }kasamu tiawa a ekita edin as[m a edi dwuma s[ ]y[fo ne adey[ as[m a [w] ay[asie kabea mu (Asante).**

Sei na Asante mmea ne mmarima akasafo a mede w]n dii dwuma no peekye a w]de kaa “Kofi at] /k<sup>w</sup>òfí át<sup>w</sup>]” da adi w] ]pon ne mfonini a edi so yi so.

}pon 17: Asante mmea ne mmarima peekye a w]de kaa “Kofi at] /k<sup>w</sup>òfí át<sup>w</sup>]”.

Selaboro	k <sup>w</sup> ò	fí	á	t <sup>w</sup> ]
Mmarima	129	174	160	127
Mmea	188	261	241	157



*Mfonini 17: Asante mmea ne mmarima peekye*

Mfonini no kyer[ peekye nk]nt]noe a [w] Asante mmea ne mmarima akasafo a mede w]n dii dwuma no peekye mma no mu. Mfonini no ma yehu s[, mmarima no peekye kyer[p[n

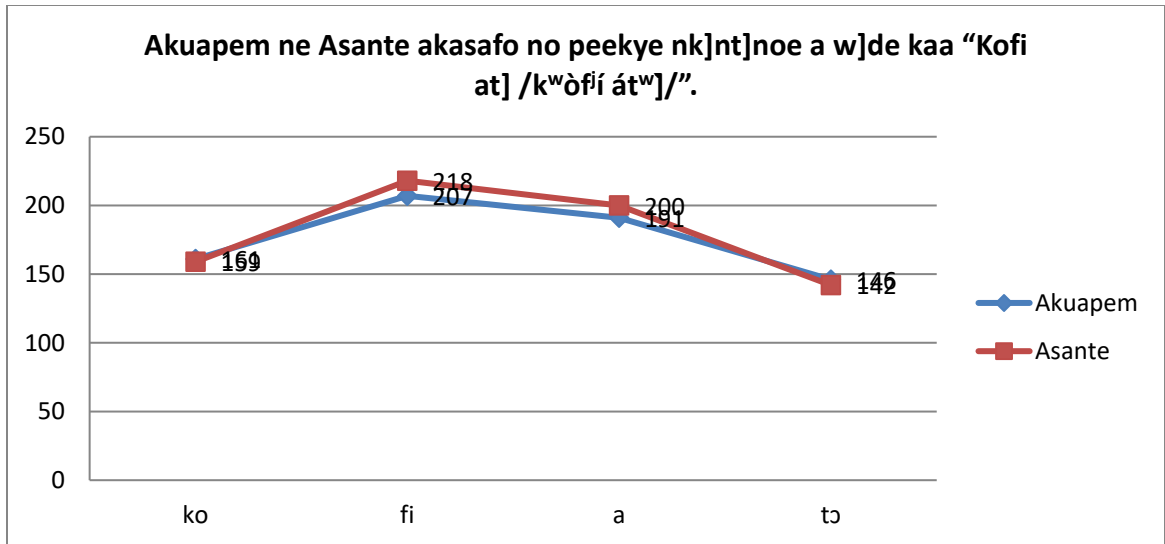
no hy[ ase fi 127Hz kosi 174Hz. Mmea no nso peekye kyer[p[n no hy[ ase fi 157Hz kosi 261Hz. Afaanu no nyinaa mu no, peekye a [w] soro pa ara no so selaboro a [t] so abien saa ara nso na nea [w] fam pa ara no so selaboro a etwa to no. As[m no toonu nhyehy[e no F-S-S-F a S toonu a edi kan no peekye w] soro sen nea [t] so abien. Saa ara nso F toonu a edi kan no peekye w] soro sen nea etwa to no.

**4.1.6 (d) }kasamu tiawa a ekita edin as[m a edi dwuma s[ ]y[fo ne adey[ as[m a [w] ay[asie kabea mu (Akuapem ne Asante).**

Y[ahu Akuapem mmarrima ne mmea peekye mma ahorow ne Asante nso de no awie no, y[de ]kasa biara mmarrima ne mmea peekye miini no b[toto ho. }fa yi de Akuapem peekye ahorow no miini a [daa adi w] selaboro biara so no b[toto Asante de no ho w] ]pon ne mfonini a edi so yi so.

}pon 18: Akuapem ne Asante akasafo no peekye a w]de kaa “Kofi at] /k<sup>w</sup>òfíí át<sup>w</sup>]”

Selaboro	k <sup>w</sup> ò	fí	á	t <sup>w</sup> ]
Akuapem	161	207	191	146
Asante	159	218	200	142



*Mfonini 18: Akuapem ne Asante akasafo peekye*

Mfonini no kyer[ Akuapem ne Asante mmarrima ne mmea peekye miini ahorow no a y[de atoto ho no ho nk]nt]noe. Mfonini no ma yehu s[, Akuapem akasafo no peekye kyer[p[n no hy[ ase fi 146Hz kosi 207 Hz. Peekye a [w] fam pa ara no so selaboro a etwa to no [na nea [w] soro pa ara no so selaboro a [t] so abien no. Asante akasafo no nso peekye kyer[p[n no hy[ ase fi 142Hz kosi 218Hz a [no nso peekye a [w] fam pa ara no so selaboro a etwa to no [na nea [w] soro pa ara no so selaboro a [t] so abien no. Kasa abien no nyinaa mu nso yehu w] nk]nt]noe no mu s[, w]n nk]nt]noe no y[ p[ a peekye mma no a [wow] selaboro ahorow no mu no nsonsonoe nhy[ da ny[ ahe bi.

Toonu nhyehy[e a ekita as[m no y[ F-S-S-F toonu a [da adi s[ kasa abien no nyinaa mu no, S toonu a edi kan no peekye no w] soro se nea [t] so abien no. F toonu ahorow no nso F toonu a edi kan no peekye no w] soro kakra sen nea etwa to no. Yebetumi agyina nhw[so “Kofi at] /k<sup>w</sup>òfí át<sup>w</sup>]” ho akusteke adanse yi so akyer[ s[, ]kasamu tiawa a ekita edin as[m

a edi dwuma s[ ]y[fo ne adey[ as[m a [w] ay[asie kabea mu no y[ sentase nhyehy[e a ne toonu nhyehy[e no y[ p[ w] Akuapem ne Asante Twi kasa no mu biako.

#### **4.2 Sentase nhyehy[e binom a nsonsonoe da w]n toonu nhyehy[e mu**

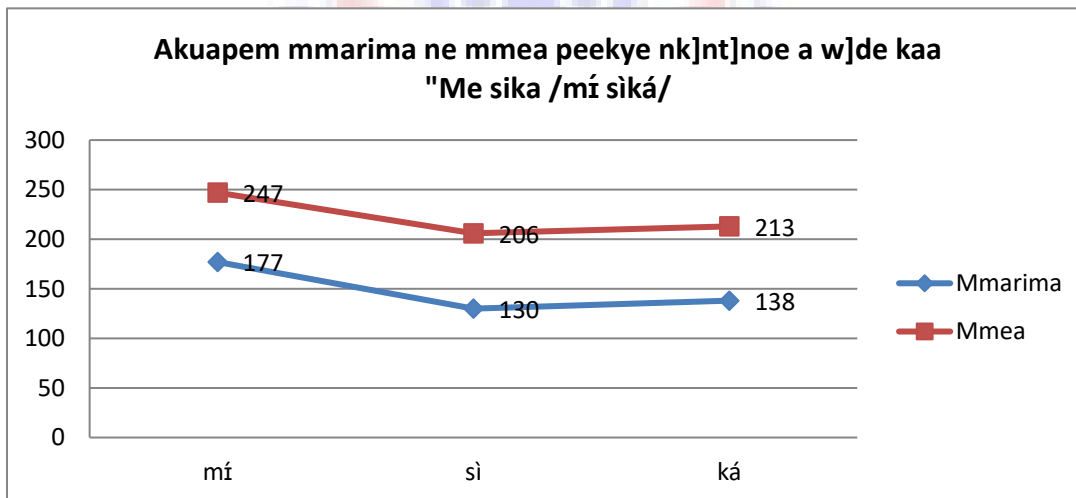
}fa kumaa yi b[hw[ akusteke mp[ns[mp[ns[mu a [k]] so w] sentase nhyehy[e binom a metase de dii dwuma yi a nsonsonoe da w]n toonu nhyehy[e mu w] Akuapem ne Asante kasa mu. Sentase nyehy[e ahorow pii na nsonsonoe da w]n toonu nhyehy[e no mu w] Akuapem ne Asante mu nanso esiane dwumadi yi ntr[mu nti kakra yi a mereb[p[ns[mp[ns[m mu yi na metase de dii dwuma no.

**4.2.1 (a) }dede edin kasasin a ekita edinnsiananmu ne edin as[m a efi edin kuw (I) mu a ekita FS toonu (Akuapem akasafo).**

Edin kasasin a [y[ ]dede a ekita edinnsiananmu ne edin as[m a efi edin kuw (l) mu a ekita FS toonu y[ sentase nhyehy[e bi a nsonsonoe da ne toonu nhyehy[e mu w] Akuapem ne Asante mu. S[nea Abakah (2015) kyer[ no, edin as[m a ekita selaboro abien a ne toonu nhyehy[e y[ FS no fi edin kuw a edi kan mu. Sei na Akuapem mmarima ne mmea akasafo a mede w]n dii dwuma no F0 a w]de kaa “Me sika /mí # s̀iká/” te w] ]pon ne mfonini a edi so yi so.

**}pon 19: Akuapem mmarima ne mmea peekye a w]de kaa “Me sika /mí # s̀iká/”.**

Selaboro	mí	s̀i	ká
Mmarima	177	130	138
Mmea	247	206	213



*Mfonini 19: Akuapem mmarima ne mmea peekye*

Mfonini a [w] soro h] yi y[ Akuapem mmarima ne mmea peekye nk]nt]noe a [san kyer[ peekye mma ahorow a epuei w] as[m “Me sika /mí s̀iká/”ka mu. Akuapem mu no,

nhyehy[e yi kita SFS toonu nhyehy[e s[nea [te w] ns[mfua abien yi ab]se no mu p[p[[p]. Mmarima no fa mu no, w]n peekye kyer[p[n no hy[ ase fi 130Hz a [so selaboro a [t] so abien no kosi 177Hz a [so selaboro a edi kan no. Mmea no fa mu nso, w]n peekye kyer[p[n no hy[ ase fi 206Hz a [no nso so selaboro a [t] so abien no kosi 247Hz a [no nso so selaboro a edi kan no.

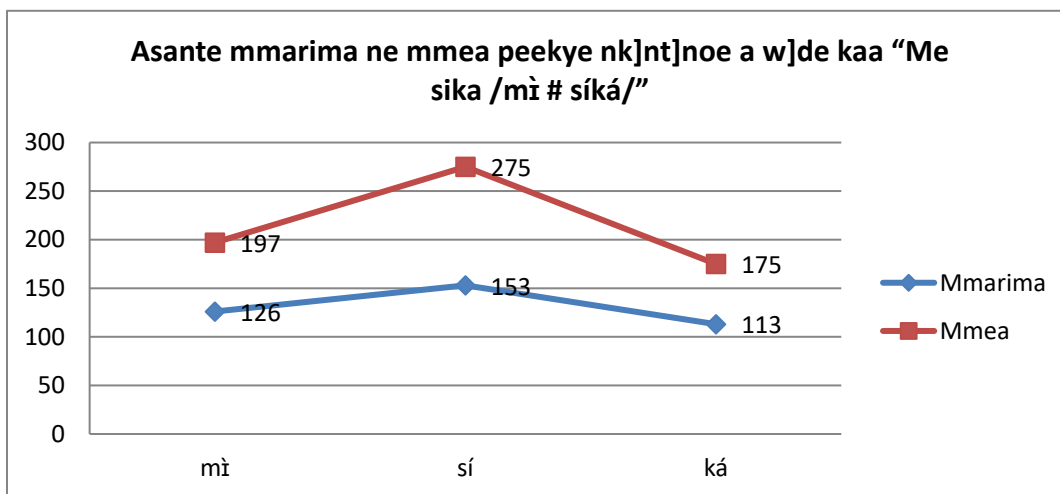
Afaanu no nyinaa mu no, yehu s[ peekye a etwa to a [y[ S toonu no peekye w] fam sen S toonu a [so selaboro a edi kan no. Yebetumi agyina eyi so akyer[ s[, S toonu a etwa to no y[ famgyina S toonu esiane s[ F toonu a [hy[ mfimfini a ne peekye no w] fam no anya nsunsuanso w] S toonu a etwa to no so ama ne peekye mma no so ahuan. Eyi ne Dolphyne (2006) nkyer[mu a ]de mae se s[ yenza SFS toonu nhyehy[e a S toonu a etwa to b[y[ famgyina S toonu esiane s[ ne peekye no w] fam sen S a edi kan no k] b[nkoro mu. Eyi ma yehu s[ Akuapem mu no, saa sentase nhyehy[e yi toonu nhyehy[e no ne s[nea [te w] n'ab]se no mu no toonu nhyehy[e no y[ p[ nanso s[ y[ka bom a, S toonu a etwa to no b[y[ famgyina w] Akuapem mu.

#### **4.2.1 (b) }dede edin kasasin a ekita edinnsiananmu ne edin as[m a efi edin kuw (I) mu a ekita FS toonu (Asante akasafo).**

Asante mmarrima abiesa ne mmea abiesa a mede w]n dii dwuma no nso, sei na w]n peekye a w]de kaa “Me sika /mì # síká/” no te w] ]pon ne mfonini a [da adi w] ase h] no mu.

}pon 20: Asante mmarrima ne mmea peekye a w]de kaa “Me sika /mì # síká/”

Selaboro	mì	sí	ká
Mmarima	126	153	113
Mmea	197	275	175



*Mfonini 20: Asante mmarima ne mmea peekye*

Mfonini a [w] soro h] no kyer[ peekye nk]nt]noe a [daa adi w] Asante mmarima ne mmea akasafo peekye a w]de “Me sika /mì # síká/”. Asante mu no, mmarima no fa mu no, peekye kyer[p]n no hy[ ase fi 113Hz a [so selaboro a [so selaboro a etwa to no kosi 153Hz a [no nso so selaboro a [t] so abien no. Mmea no fa mu nso, peekye kyer[p]n no hy[ ase fi 175Hz a [no nso so selaboro a etwa to saa ara kosi 275Hz a [no nso so selaboro a [t] so abien.

Asante mu no, SFS [y[ as[m no toonu nhyehy[e no sesa b[y[ FSS w] mmere a y[aka ns[mfua abien no abom no. Mfonini no ma yehu s[, F toonu a [so selaboro a edi kan no peekye mma no w] fam. Selaboro a [t] so abien a [so S toonu nso peekye w] soro pa ara a [kyer[

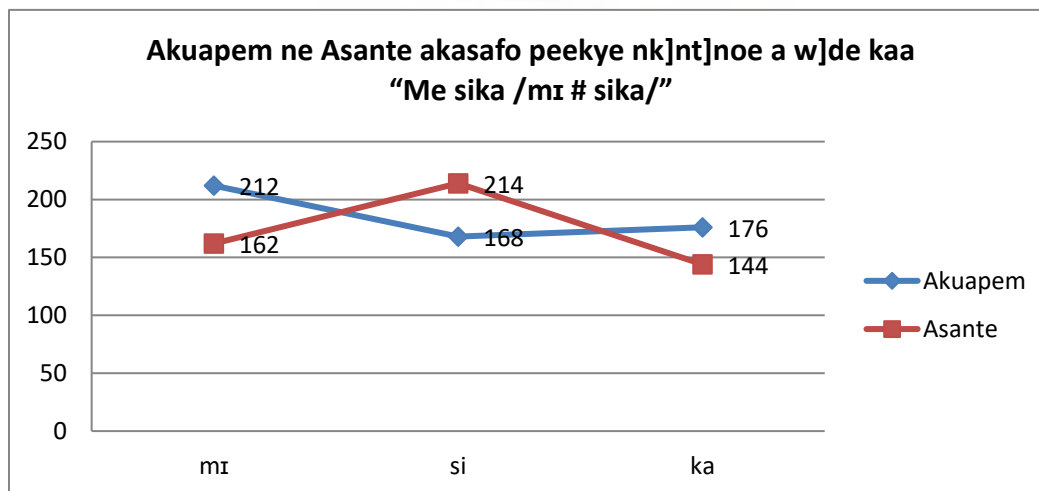
s[ [y[ S toonu nanso S toonu a [so selaboro a etwa as[m no to no de, ne peekye mma no w] fam pa ara ma mpo [w] fam sen F toonu a edi kan no.

**4.2.1 (d) }dede edin kasasin a ekita edinnsiananmu ne edin as[m a efi edin kuw (I) mu a ekita FS toonu (Akuapem ne Asante akasafo).**

Y[ahw[ ]kasa abien no mu biara peekye nhyehy[e awiei no, afei ]fa yi mu no, y[de ]kasa no mu biara mmarima ne mmea peekye mma no miini b[toto ho. Eyi b[boa ama y[ahu nsonsonoe a [da sentase nhyehy[e a mab] so yi toonu nhyehy[e w] kasa abien no mu. Sei na eyi da adi w] ]pon ne mfonini a edi so yi mu.

}pon 21: Akuapem ne Asante peekye a w]de kaa “Me sika /mɪ # sika/”

Selaboro	mɪ	sɪ	ka
Akuapem	212	168	176
Asante	162	214	144





*Mfonini 21: Akuapem ne Asante akasafo peekye*

Mfonini yi kyer[ Akuapem ne Asante akasafo a mede w]n dii dwuma no peekye mma ne nk]nt]noe a w]de kaa “Me sika /mɪ # sika/” no ho ntotoho. Akuapem mu no, [da adi s[, as[m no toonu nhyehy[e ne s[nea [te w] n’ab]se mu no nyinaa y[ p[ a [y[ SFS. Mfonini no ma yehu s[, S toonu a [so selaboro a etwa to no peekye aba no y[ 176Hz a [w] fam sen S a edi kan a ne peekye aba y[ 212Hz no. Eyi di adanse s[, F a [hy[ mfimfini a ne peekye aba y[ 168Hz a [no na [w] fam pa ara no ahuan S a atwa to no so ama ay[ famgyina S toonu s[nea Dolphyne (2006) kyer[ no.

Asante de no mu no, [da adi s[, as[m no toonu nhyehy[e no sesa b[y[ FSS a [da nso w] Akuapem de no ho. Mfonini no ma yehu s[, selaboro a edi kan no a [so F toonu no peekye aba no y[ 162Hz a [w] fam [na nea [t] so abien a [so S toonu no nso peekye aba no y[ 214Hz a [kyer[ s[ [w] soro pa ara. Nanso s[ y[hw[ nea [t] so abiesa no a [no nso so S toonu no a, ne peekye aba no y[ 144Hz a [w] fam mpo sen F toonu a edi kan no.

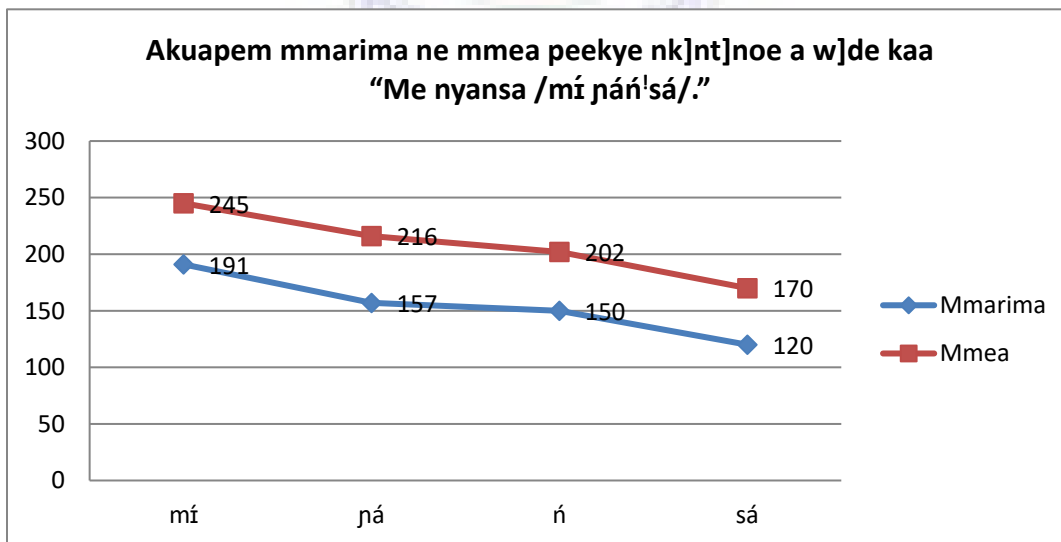
Ntotoho a [w] mfonini no so no ma yehu s[, selaboro a edi kan no mu no, Akuapem peekye no w] soro [na Asante de no w] fam. Nea [t] so abien no nso, Akuapem de no w] fam [na Asante de no w] soro. {na afei nea etwa to no, ne nyinaa w] soro de, nanso Asante de no, peekye aba no w] fam kakra sen Akuapem de no a [y[ famgyina no. Eyi di adanse s[, nsonsonoe da ]dede edin kasasin a ekita edinnsiananmu ne edin as[m a efi edin kuw (I) mu a ekita FS toonu no toonu nhyehy[e mu w] Akuapem ne asante mu.

#### 4.2.2 (a) }dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ SƆS (Akuapem Twi)

}dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ SƆS y[ sentase nhyehy[e bi a nsonsonoe w] ne toonu nhyehy[e mu w] Akuapem ne Asante mu. Abakah (2005) kyer[ s[, edin as[m a ekita toonu nhyehy[e yi no ka edin kuw II no ho. Ɔ toonu a [hy[ S abien no mfimfini no y[ toonu agyanka bi a yenhu. {no nti [ma S a etwa to no y[ famgyina. Sei na Akuapem mmарima ne mmea a mede w]n dii dwuma no peekye a w]de kaa “Me nyansa /mí ɲá'ń'ń' / da adi w] ]pon ne mfonini a edi so yi so.

}pon 22: Akuapem mmарima ne mmea peekye a w]de kaa “Me nyansa /mí ɲá'ń'ń' /.”

Selaboro	mí	ɲá	ń	'ń'ń'
Mmarima	191	157	150	120
Mmea	245	216	202	170



*Mfonini 22: Akuapem mmarima ne mmea peekye*

Mfonini a [w] soro h] no kyer[ peekye nk]nt]noe a [da adi w] Akuapem mmarima ne mmea peekye a w]de kaa “Me nyansa /mí ján<sup>1</sup>sá/” mu. Mmarima no fa mu no, w]n peekye kyer[p[n no hy[ ase fi 120Hz a [so selaboro a etwa to no so kosi 191Hz a [so selaboro a edi kan no. Mmea no fa mu nso, w]n peekye kyer[p[n no hy[ ase fi 170Hz kosi 245Hz a [no nso soso selaboro a etwa to ne nea edi kan te s[ mmarima de no ara. S[nea Abakah (2005) kyer[ no, edin as[m no kita SĔS toonu nhyehy[e a [kyer[ s[ Ĕ toonu a [hy[ S abien no ntam no y[ agyanka nti yenhu. {ba no saa a [ka SS nko ara. Edinnsiananmu no nso kita S toonu. Akuapem mu no, [da adi s[, toonu nhyehy[e no ne as[m no ab]se no de no nyinaa y[ p[.

Nk]nt]noe no ma yehu s[, selaboro a edi kan no peekye w] soro pa ara ma [rek] n’anim no nyinaa na peekye no so tew nkakrankakra. Yehu s[, selaboro a etwa to no na w]n peekye w] fam pa ara w] afaanu no mu. Yebetumi agyina eyi so akyer[ s[ Ĕ toonu a [y[ agyanka no na anya nsunsuanso w] selaboro a etwa to no so ma ay[ famgyina.

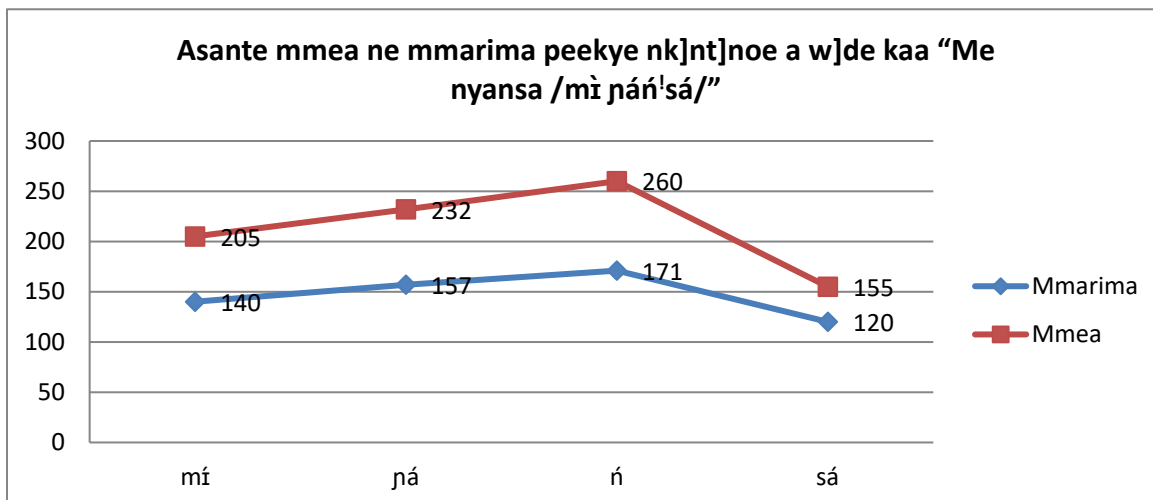
**4.2.2 (b) }dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ SĔS (Asante Twi).**

Asante mmarima ne mmea akasafo a mede w]n dii dwuma no nso, sei na w]n peekye a w]de kaa “Me nyansa /mì ján<sup>1</sup>sá/” no da adi w] ]pon ne mfonini a edi so yi so.

}pon 23: Asante mmarima ne mmea peekye a w]de kaa “Me nyansa /mì ján<sup>1</sup>sá/”

Selaboro	mì	já	ń	sá
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Mmarima	140	157	171	120
Mmea	205	232	260	155



*Mfonini 23: Asante mmarima ne mmea peekye.*

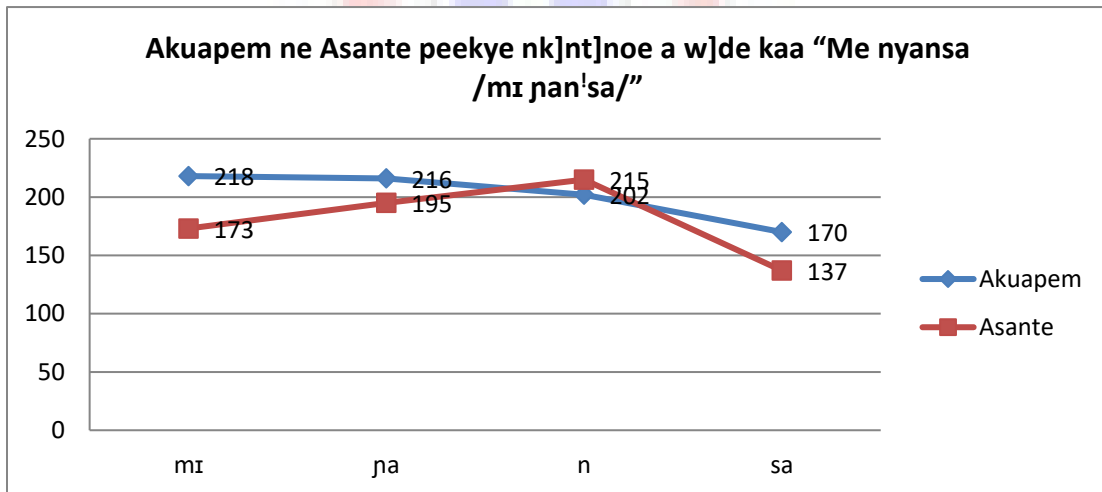
Mfonini a [w] soro h] no kyer[ Asante mmea ne mmarima peekye nk]nt]noe a w]de kaa “Me nyansa /mì ján'sá/”. Mfonini no ma yehu s[, peekye kyer[p[n a [da adi w] mmarima no fa mu no hy[ ase fi 155Hz kosi 260Hz. Mmea no fa mu nso, [hy[ ase fi 120Hz kosi 171Hz. Afaanu no nyinaa mu no, peekye mma a [w] fam pa ara no so selaboro a etwa to no [na nea [w] soro pa ara no nso so selaboro a [t] so abiesa no. Asante mu no, ]kasasin no toonu nhyehy[e no sesa b[y[ FSĤS. Selaboro a edi kan no peekye no w] fam a edi adanse s[ [so F toonu. Nea [t] so abien no mu pagya kakra a nanso [nto nea [t] so abiesa no. Eyi foa Dolphyne (2006) nkyer[mu a ]de mae se s[ F toonu bi pue w] S toonu bi anim a, ehuan S toonu no peekye no so kakra no so. Afei nso selaboro a [t] so anan no a [y[ famgyina S nso peekye w] fam koraa sen F toonu a edi kan no.

**4.2.2 (d) }dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ SĪS (Akuapem ne Asante Twi).**

Y[ahw[ kasa abien no nyinaa mmarima ne mmea peekye ahorow a w]de kaa “Me nyansa /mɪ ɲan<sup>1</sup>sa/” no, y[de ]kasa no mu biara miini a epuei w] selaboro biara so no b[toto ]kasa foforo no de ho. Sei na kasa abien no peekye miini ntotoho no da adi w] ]pon ne mfonini a edi so no so.

}pon 24: Akuapem ne Asante akasafo peekye a w]de kaa “Me nyansa /mɪ ɲan<sup>1</sup>sa/”

Selaboro	mɪ	ɲa	n	sa
Akuapem	218	216	202	170
Asante	173	195	215	137



*Mfonini 24: Akuapem ne Asante akasafo peekye*

Mfonini no kyer[ ntotoho a [da adi w] Akuapem ne Asante akasafo no peekye nk]nt]noe a w]de kaa “Me nyansa /mɪ ɲan<sup>1</sup>sa/” no mu. Mfonini no da no adi s[, Akuapem peekye

kyer[p[n no hy[ ase fi 170Hz kosi 218Hz. Peekye a [w] fam pa ara no so selaboro a etwa to no [na nea [w] soro pa ara no so nea edi kan no. Asante mu nso, peekye kyer[p[n no hy[ ase fi 137Hz kosi 215Hz. Peekye a [w] fam pa ara no so selaboro a etwa to no s[nea Akuapem de no te ara nanso nea [w] soro pa ara no de, [so selaboro a [t] so abiesa no mmom.

S[ y[hw[ selaboro a edi kan no w] kasa abien no mu a, yehu s[ Akuapem de no peekye no w] soro na Asante de no w] fam a edi adanse s[, Akuapem de no so S toonu [na Asante de no so F toonu. Selaboro abiesa a aka no nyinaa de, [y[ S toonu w] ne awtputu mu nanso Akuapem selaboro a [t] so abien no peekye w] soro kakra sen Asante de no esiane s[ Asante de no w] F peekye hy[ n'anim a ehuan ne S peekye no so kakra. Selaboro a [t] so abiesa no nso, [mfa ho s[ ne nyinaa so S toonu no, Asante de no w] soro kakra sen Akuapem de no esiane s[ Akuapem de no y[ S toonu a [t] so abiesa nti famba bi rek] so. Selaboro a etwa to no nso, yehu s[, [no ne selaboro a [w] fam pa ara w] kasa abien no mu esiane famgyina no nti, nanso mfonini no ma yehu s[, Asante de no w] fam sen Akuapem de no.

Akuapem toonu nhyehy[e a yenya w] sentase nhyehy[e yi awputu mu y[ SSS<sup>1</sup>S [na nea yenya w] Asante mu no y[ FSS<sup>1</sup>S. Eyi di adanse s[, nsonsonoe da sentase nhyehy[e a [y[ ]dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ S<sup>1</sup>S w] Akuapem ne Asante mu.

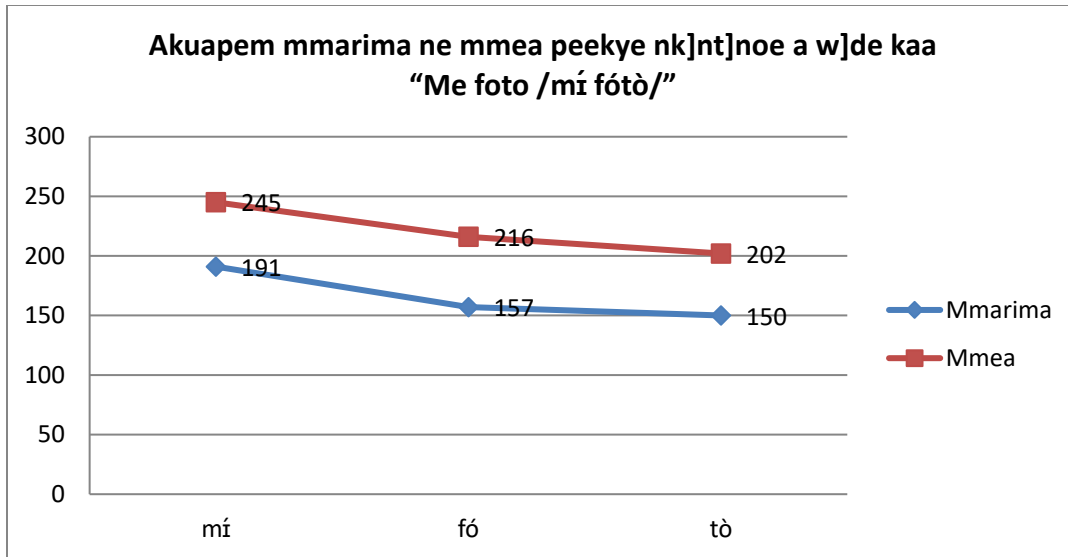
**4.2.3 (a) }dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ SF (Akuapem Twi).**

Edin kasasin a [y[ ]dede a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ SF y[ sentase nhyehy[e no mu biako a nsonsonoe da w]n toonu nhyehy[e mu w] Asante ne Akuapem mu. Abakah (2005) kyer[ s[, saa edin as[m ahorow a ekita SF toonu nhyehy[e no y[ ns[mfua bi a Akan af[m afi Bor]fo mu s[nti ne s[ Akan nni ns[mfua a [tete saa. Adomako (2008) nso kyer[ s[, Akan af[m ns[mfua ahorow pii afi Europe akasa ahorow mu ab[ka ne ns[mfua ho ma [b[y[ den mpo s[ ]kasasin anaa ]kasamu bi mpo b[k] awiei a yennya as[mfua bi w]af[m wom. Eyi nti ama saa ns[mfua no ab[y[ Akan ns[mfua.

Sei na Akuapem mmarima ne mmea akasafo a mede w]n dii dwuma no peekye a w]de kaa “Me foto /mí fótò/” no da adi w] ]pon ne mfonini a edi so no so.

}pon 25: Akuapem mmarima ne mmea peekye a w]de kaa “Me foto /mí fótò/”

Selaboro	mí	fó	tò
Mmarima	191	157	150
Mmea	245	216	202



*Mfonini 25: Akuapem mmarima ne mmea peekye*

Mfonini a [w] soro h] yi no kyer[ peekye nk]nt]noe a Akuapem mmarima ne mmea de kaa “Me foto /mí fótò/”. Mfonini no ma yehu s[, peekye kyer[p]n a [da adi w] mmarima no fa mu no hy[ ase fi 150Hz a [so selaboro a etwa to no kosi 191Hz a [no nso so selaboro a edi kan no. Saa kwan no so ara no, mmea no de no hy[ ase fi 202Hz a [so selaboro a etwa to no kosi 245Hz a [no nso so selaboro a edi kan no. Akuapem mu no [da adi s[, toonu nhyehy[e a ]kasasin no kita w] n’ab]se mu no ne nea epue w] awtputu no mu nyinaa y[ p[ (SSF). Mfonini no ma yehu s[, selaboro a edi kan no peekye aba no w] soro kakra sen nea [t] so abien a [no nso so S toonu no. Selaboro a etwa to no nso ne nea [w] fam pa ara a [no nso ne nea [so F toonu no. Fi selaboro a edi kan no so no, yehu nsianee ara kosi nea etwa to no so a ne peekye aba w] fam pa ara no.

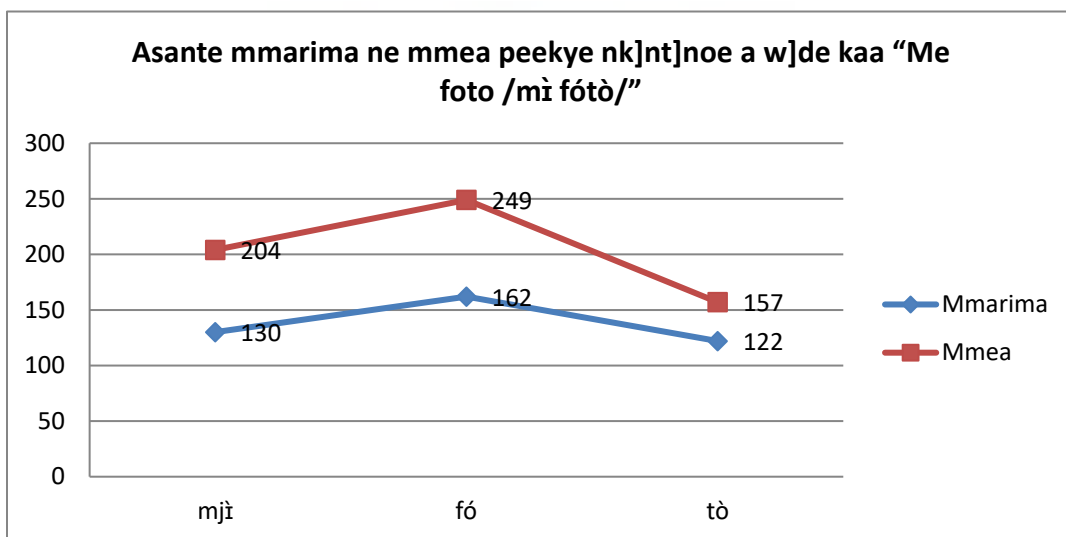
**4.2.3 (b) }dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ SF (Asante Twi).**



Sei na Asante mmarima ne mmea akasafo a mede w]n dii dwuma no peekye a w]de kaa “Me foto /m̀i f̀ot̀o/” da adi w] ]pon ne mfonini a edi so no mu.

}pon 26: Asante mmarima ne mmea peekye a w]de kaa “Me foto /m̀i f̀ot̀o/”

Selaboro	m̀i	f̀o	t̀o
Mmarima	130	162	122
Mmea	204	249	157



*Mfonini 26: Asante mmarima ne mmea peekye*

Mfonini no kyer[ Asante mmarima ne mmea peekye a w]de kaa “Me foto /m̀i f̀ot̀o/”. Peekye kyer[p]n a [da adi w] mmarima no afam no hy[ ase fi 122Hz a [so selaboro a etwa to no kosi 162Hz a [so selaboro a [t] so abien no. Mmea no afam nso, peekye kyer[p]n no hy[ ase fi 157Hz a [so selaboro a etwa to no kosi 249Hz a [no nso so selaboro a [t] so abien no ara. Asante mu no, SSF toonu a [soso selaboro ahorow no w] n’ab]se mu no sesa b[y[ FSF w] ne awtputu mu. Mfonini no di adanse s[, selaboro a edi kan no peekye aba no w] fam [na nea [t] so abien no de, [no na ne peekye aba no w] soro apa ara a egyina ma S

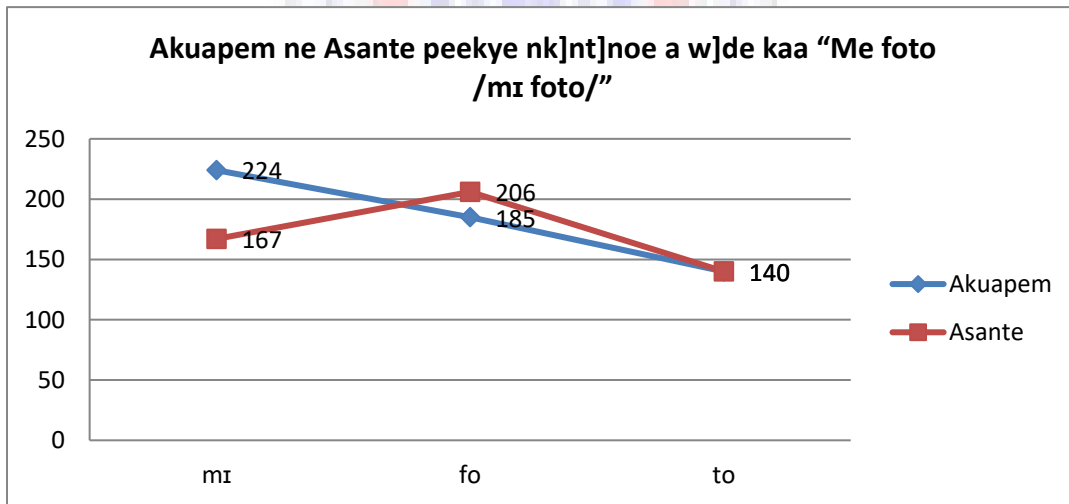
peekye. Selaboro a etwa to no nso na ne peekye aba w] fam pa ara a [no nso kyer[ F peekye no.

**4.2.3 (d) }dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ SF (Akuapem ne Asante Twi).**

Y[ahw[ kasa abien no nyinaa peekye ahorow awie no, y[de ]kasa biara peekye miini a [daa adi no b[toto ]kasa foforo no de ho ahw[ nsonsonoe a [wom. Sei na eyi da adi w] ]pon ne mfonini a edi h] no mu.

}pon 27: Akuapem ne Asante akasafo peekye a w]de kaa “Me foto /mɪ foto/”

Selaboro	mɪ	fo	to
Akuapem	224	185	140
Asante	167	206	140



*Mfonini 27: Akuapem ne Asante akasafo peekye*

Mfonini a [w] soro h] no kyer[ peekye nk]nt]noe a Akuapem ne Asante akasafo a mede w]n dii dwuma no de kaa “Me foto /mɪ foto/”. Eyi y[ peekye miini a [daa adi w] kasa abien no mu no ntotoho. Mfonini no ma yehu s[, peekye a [w] soro pa ara w] Akuapem mu no so selaboro a edi kan a ne peekye aba no y[ 224Hz [na nea [w] fam pa ara no so selaboro a etwa to no a [no nso peekye aba y[ 140Hz. Asante mu no de, selaboro a ne peekye w] soro pa ara no y[ nea [t] so abien no mmom a ne peekye aba y[ 206Hz [na nea [w] fam no de [ne Akuapem de no nyinaa y[ p[ a ne peekye aba y[ 140Hz saa ara.

Mfonini no di adanse s[, selaboro a edi kan a [so S toonu w] n’ab]se mu no k] so ara y[ S no ara w] Akuapem mu nanso Asante mu de, [no sesa y[ F esiane s[ ne peekye aba no w] fam pa ara sen Akuapem de no. Selaboro a [t] so abien no mu nso, [wom s[ ne nyinaa soso S toonu de nanso yehu mforoe w] Asante de no mu [na Akuapem de mu de, yehu nsianee kakra nti [ma Asante de no peekye aba no w] soro kakra sen Akuapem de no, Selaboro a etwa to no de, yehu s[, afaanu no nyinaa peekye mma no y[ p[ a [no nso w] fam pa ara. Eyi di adanse s[, ne nyinaa soso F toonu ampa. Sentase nhyehy[e yi mu no, nsonsonoe p]tee a epue wom no gyina selaboro a edi kan no so a Asante mu no [y[ F [na Akuapem mu de [y[ S. Eyi di adanse s[, nsonsonoe da ]dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ SF toonu nhyehy[e mu w] Asante ne Akuapem mu.

#### **4.2.4 (a) Edinnsiananmu ne adey[ as[m a efi adey[ kuw l mu (Akuapem Twi)**

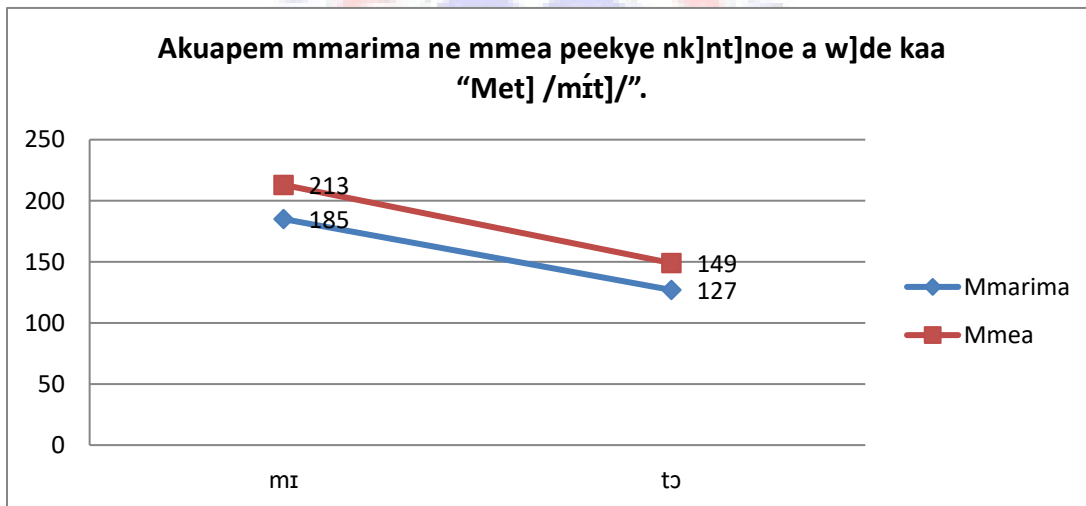
Edinnsiananmu ne adey[ as[m a efi adey[ kuw l mu no y[ sentase nhyehy[e ahorow a nsonsonoe da w]n toonu nhyehy[e mu w] Asante ne Akuapem Twi mu no mu biako.

Abakah (2005) kyer[ s[ saa adey[ kuw yi kita adey[ ahorow a w]n toonu y[ S w] ab]se mu. Sentase nhyehy[e yi mu no, adey[ as[m no kyer[ daa kabea.

Sei na Akuapem akasafo a mede w]n dii dwuma no peekye a w]de kaa “Met] /mít]” a mede sii sentase nhyehy[e yi anan mu no da adi w] ]pon ne mfonini a edi so no so. Saa sentase nhyehy[e yi kita selaboro abien p[.

}pon 28: Akuapem mmarima ne mmea akasafo peekye a w]de kaa “Met] /mít]”.

Selaboro	mí	tʷ]
Mmarima	185	127
Mmea	213	149



*Mfonini 28: Akuapem mmarima ne mmea peekye*

Mfonini no kyer[ Akuapem mmea ne mmarima peekye nk]nt]noe a w]de kaa “Met] /mít]”. Mfonini no di adanse s[, Akuapem mu no, sentase nhyehy[e yi kita SF toonu nhyehy[e. Mmea ne mmarima no fa mu nyinaa no, selaboro a ne peekye w] soro pa ara

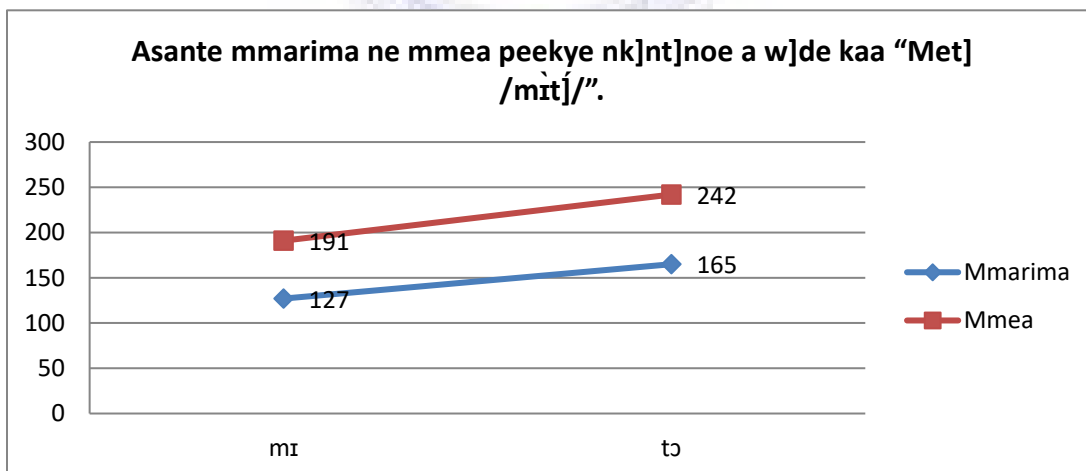
no y[ nea edi kan a mmarima de no y[ 185Hz [na mmea no de no nso y[ 213Hz. Afaanu no nyinaa mu nso [da adi s[ peekye aba a [w] fam no so selaboro a [t] so abien no a mmarima no de no y[ 127Hz [na mmea no de no nso y[ 149Hz. Akuapem mu no, mfonini no di adanse s[, edinnsinanmu no y[ S saa ara [na adey[ no de asesa ak]fa F.

#### 4.2.4 (b) Edinnsiananmu ne adey[ as[m a efi adey[ kuw I mu (Asante Twi)

}pon ne mfonini a edi so yi nso da Asante akasafo a mede w]n dii dwuma yi no peekye a w]de kaa “Met] /mitj/” no adi. {b[kyer[ peekye mma ahorow a epue w] selaboro ahorow no so ne s[nea ne nk]nt]noe te fa.

}pon 29: Asantefo mmarima ne mmea peekye a w]de kaa “Met] /mitj/”.

Selaboro	mɪ	tɔ
Mmarima	127	165
Mmea	191	242



*Mfonini 29: Asante mmarima ne mmea peekye*

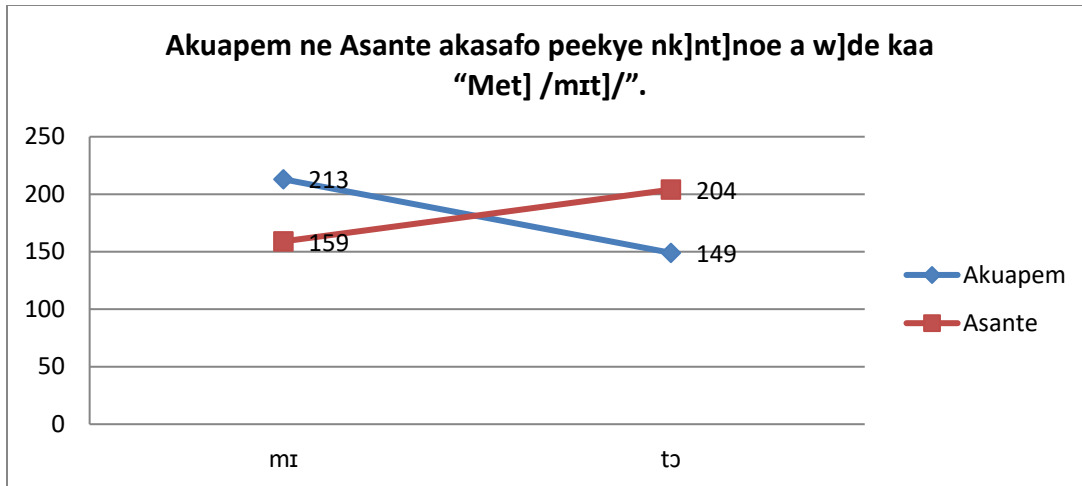
Mfonini a [w] soro h] yi kyer[ Asante mmarima ne mmea peekye nk]nt]noe a w]de kaa “Met] /mit]”. Mfonini no ma yehu s[, Asante mu no sentase nhyehy[e yi toonu nhyehy[e no b[y[ FS. Mfonini no da no adi s[, selaboro a edi kan no mmom na ne peekye w] fam pa ara a mmea de no y[ 191Hz [na mmarima de no nso y[ 127Hz. Peekye mma a [w] soro no nso so selaboro a etwa to no a mmea de no y[ 242Hz [na mmarima de no y[ 165Hz. Eyi ma yehu s[, Asante mu no, edinnsiananmu no a ekita S selaboro w] n’ab]se mu no sesa b[y[ F [na adey[ no y[ S. Eyi di adanse s[, Asante mu no sentase nhyehy[e no toonu nhyehy[e b[y[ FS.

#### 4.2.4 (d) Edinnsiananmu ne adey[ as[m a efi adey[ kuw I mu (Asante ne Akuapem Twi)

Y[ahw[ kasa abien no nyinaa peekye awie no, y[de ebiara miini a [daa adi w] mmarima ne mmea peekye ahorow no mu no b[toto] kasa foforo no de ho ahw[ s[nea nsonsonoe ahorow a [wom no te. Sei na Akuapem ne Asante akasafo a mede w]n dii dwuma no peekye a w]de kaa “Met] /mit]” no da adi w] ]pon ne mfonini a edi so no so.

}pon 30: Asante ne Akuapem akasafo no peekye a w]de kaa “Met] /mit]”.

Selaboro	m <sup>i</sup>	t <sup>w</sup>
Mmarima	213	149
Mmea	159	204



*Mfonini 30: Akuapem ne Asante akasafo peekye*

Mfonini no kyer[ ntotoho a [w] Asante ne Akuapem peekye a w]de kaa “Met] /mɪt]” mu. Mfonini no ma yehu s[, selaboro abien no so no nsonsonoe da emu biara peekye a w]de ka no mu w] kasa abien no mu. S[ y[hw[ selaboro a edi kan no a, Akuapem de no peekye no w] soro sen Asante de no esiane s[ ne peekye aba no F0 no y[ 213Hz [na Asante de no y[ 159Hz. Eyi di adanse s[, selaboro a edi kan no so no, Asante de no so F toonu [na Akuapem de no so S toonu. Selaboro a [t] so abien no nso ma yehu s[ Asante de no w] soro pa ara sen Akuapem de no. Asante de no F0 no y[ 204Hz [na Akuapem de no y[ 149Hz. Eyi di adanse s[, saa selaboro no so no, Asante de no so S toonu [na Akuapem de no so F toonu. Esiane eyi nti Akuapem toonu nhyehy[e no b[y[ FS [na Asante de no b[y[ SF.

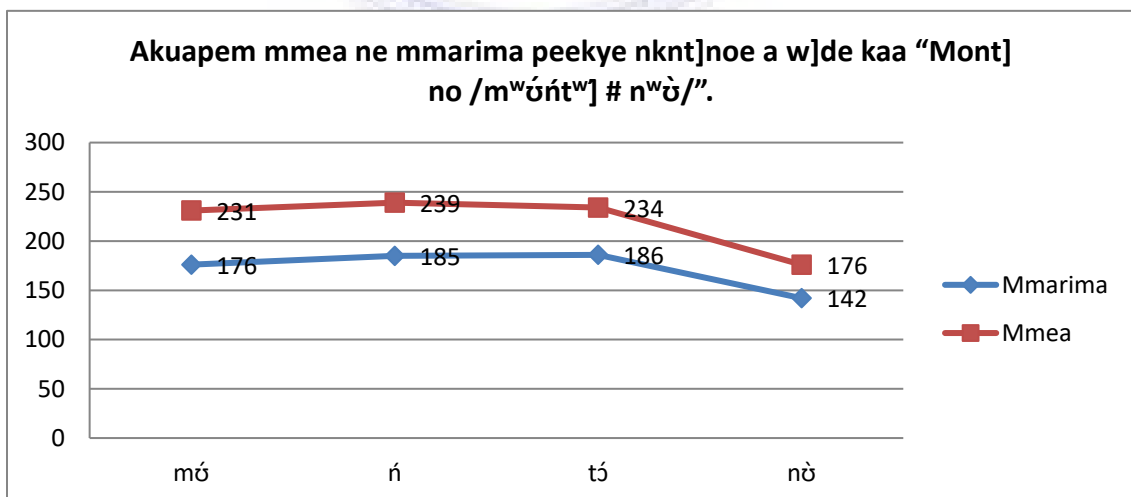
Yebetumi agyina eyi so akyer[ s[, nsonsonoe da sentase nhyehy[e a ne nhyehy[e y[ edinnsiananmu ne adey[ as[m a efi adey[ kuw I mu no toonu nhyehy[e mu w] Akuapem Twi ne Asante Twi mu.

**4.2.5 (a) }hy[ kasamu a ekita edinnsiananmu, ]hy[ m]]fem ne edinnsiananmu a edi dwuma s[ ]y[tia (Akuapem Twi).**

}hy[ kasamu a ekita edinnsiananmu, ]hy[ m]]fem ne edinnsiananmu a edi dwuma s[ ]y[tia nso y[ sentase nhyehy[e bi a nsonsonoe da ne toonu nhyehy[e mu w] Asante ne Akuapem Twi mu. Akuapem mmarima ne mmea akasafo a mede w]n dii dwuma no peekye a w]de kaa “Mont] no /m<sup>w</sup>ónt<sup>w</sup>] # n<sup>w</sup>ò/” na [da adi w] ]pon ne mfonini a edi so no mu no.

}pon 31: Akuapem mmarima ne mmea peekye a w]de kaa “Mont] no /m<sup>w</sup>ónt<sup>w</sup>] # n<sup>w</sup>ò/”.

Selaboro	m <sup>w</sup> ó	ń	t <sup>w</sup> ]	n <sup>w</sup> ò
Mmarima	176	185	186	142
Mmea	231	239	234	176



*}pon 31: Akuapem mmarima ne mmea peekye*



Mfonini no kyer[ Akuapem mmarima ne mmea peekye a w]de kaa “Mont] no /m<sup>w</sup>ónt<sup>w</sup>] # n<sup>w</sup>ò/”. Mfonini no ma yehu s[, mmea no peekye kyer[p[n no hy[ ase fi 176Hz kosi 239Hz. Mmarima no nso peekye kyer[p[n no hy[ ase fi 142Hz kosi 186Hz. Afaanu no nyinaa no, yehu s[ selaboro a etwa to no na [w] fam pa ara. Fi selaboro biako kosi abiesa no de yehu s[ w]n peekye mma no bemm[n ho pa ara a [san w] soro. Wei ma yehu s[, selaboro a edi kan kosi abiesa no nyinaa so toonu biako a [y[ S toonu.

Edinnsiananmu a etwa to a edi dwuma s[ ]y[tia no y[ “]no /]n<sup>w</sup>ó/ ” w] n’ab]se a anka ekita selaboro a ne toonu nhyehy[e y[ FS. {nam kasahare so nti yehu no s[ /]-/ no ayera w] mmere a [ne as[mfua a edi kan no hyiae no. Goldsmith (1976) nso kyer[ s[, s[ nnyigyei bi yera a, ne toonu no de [w] h]. Yebetumi agyina eyi so akyer[ s[, F toonu a nnyigyei ayera ama no ay[ agyanka no atene ak] nifa so asesa S a anka [so selaboro a [t] so abien w] edinnsiananmu no ab]se mu no ma ab[y[ F w] awtputu no mu. Mfonini no da no adi s[, selaboro a etwa to no F0 w] fam pa ara w] afaanu no nyinaa mu a egyina h] ma F toonu. Eyi di adanse s[, sentase nhyehy[e yi toonu nhyehy[e y[ SSSF w] Akuapem mu.

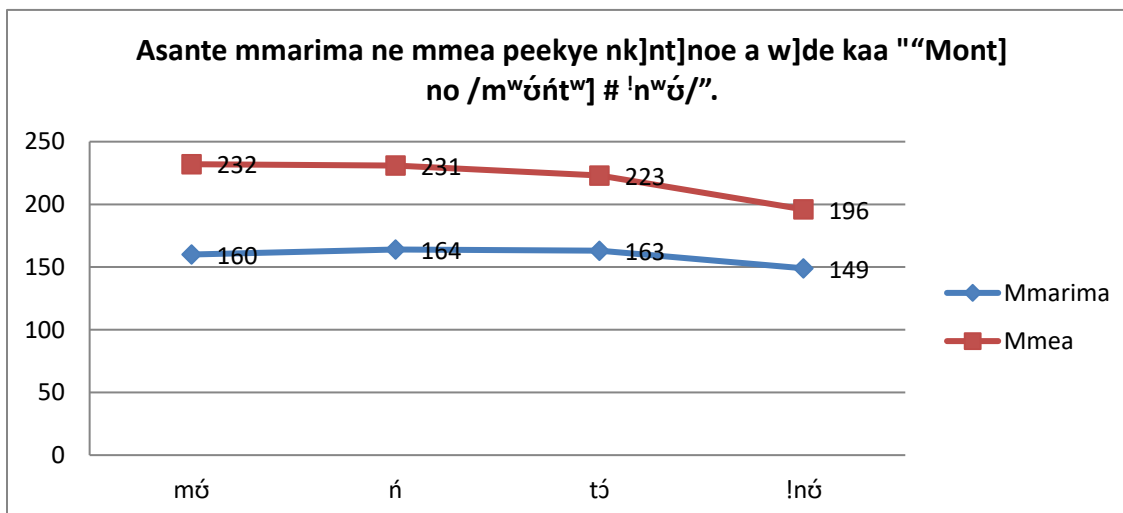
#### **4.2.5 (b) }hy[ kasamu a ekita edinnsiananmu, ]hy[ m]]fem ne edinnsiananmu a edi dwuma s[ ]y[tia (AsanteTwi).**

Asante Twi akasafo a mede w]n dii dwuma yi no peekye a w]de kaa “Mont] no /m<sup>w</sup>ónt<sup>w</sup>] # !n<sup>w</sup>ó/” na [da adi w] ]pon ne mfonini a edi so no mu no.

}pon 32: Asante mmea ne mmarima peekye a w]de kaa “Mont] no /m<sup>w</sup>ónt<sup>w</sup>] # !n<sup>w</sup>ó/”.

Selaboro	m <sup>w</sup> ó	ń	t <sup>w</sup> ]	!n <sup>w</sup> ó
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Mmarima	160	164	163	149
Mmea	232	231	223	196



*Mfonini 32: Asante mmarima ne mmea peekye*

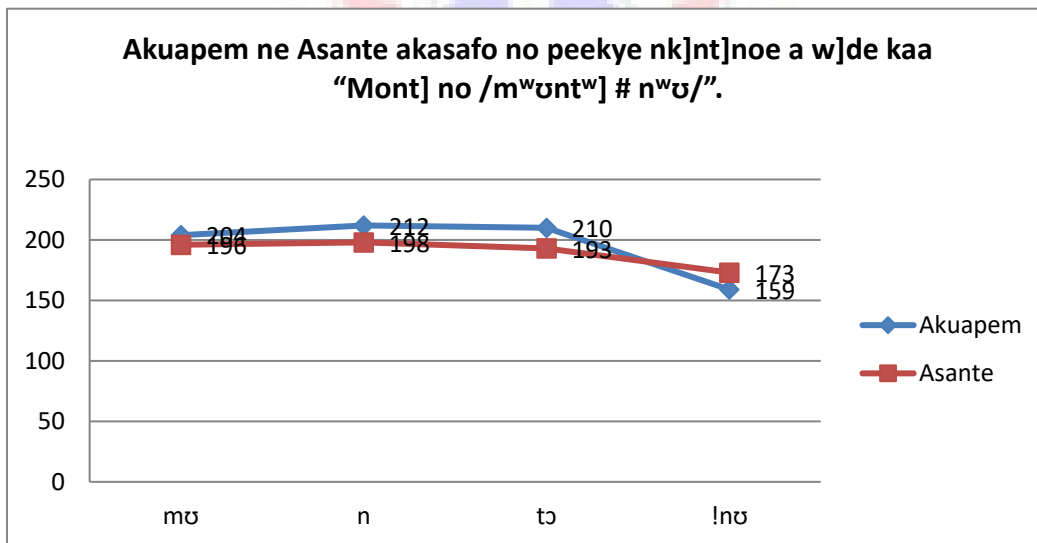
Mfonini no kyer[ Asante mmea nne mmarima peekye a w]de kaa "Mont] no /m<sup>w</sup>ónt<sup>w</sup>] # 'n<sup>w</sup>ó/". Mmea ne peekye kyer[p]n no hy[ ase fi 196Hz kosi 232Hz. Mmea no nso de no hy[ ase fi 149Hz kosi 164Hz. Yehu no s[, afaanu no nyinaa mu no, fi selaboro a edi kan kosi nea [t] so abiesa no peekye mma no bemm[n ho pa ara ma yehu s[ [nononom nso w] so kakra sen nea [t] so anan no. Esiane s[ /]-/ a [y[ nsianim ma edinnsiananmu a edi dwuma s[ ]y[tia w] nhyehy[e no mu no ayera nti no, ne F toonu a ay[ agyanka no ahuan S toonu a [so /-nú/ no peekye no so ma ay[ famgyina (!) S peekye. Yebetumi agyina eyi so akyer[ mu s[ [no nti na ama selaboro a etwa to no F0 no w] fam kakra no. Eyi di adanse s[, Asante toonu nhyehy[e a [da adi w] sentase nhyehy[e yi mu no y[ SSS<sup>1</sup>S.

**4.2.5 (d) }hy[ kasamu a ekita edinnsiananmu, ]hy[ m]]fem ne edinnsiananmu a edi dwuma s[ ]y[tia (Akuapem ne AsanteTwi).**

Y[ahw[ kasa abien no peekye ahorow a w]de kaa sentase nhyehy[e no, y[de kasa abien no miini ahorow a epue fii w] mmea ne mmarima akasafo mu no b[toto w]n y]nko de ho. Sei na kasa abien no peekye a w]de kaa “Mont] no /m<sup>w</sup>ont<sup>w</sup>] # n<sup>w</sup>o/” no da adi w] ]pon ne mfonini a edi h] no mu.

}pon 33: Akuapem ne Asante akasafo no peekye a w]de kaa “Mont] no /m<sup>w</sup>ont<sup>w</sup>] # n<sup>w</sup>o/”.

Selaboro	m <sup>w</sup> o	n	t <sup>w</sup> ]	!n <sup>w</sup> o
Akuapem	204	212	210	159
Asante	196	198	193	173



*Mfonini 33: Asante ne Akuapem akasafo no peekye*

Mfonini no kyer[ peekye ntotoho a [da w] Asante ne Akuapem peekye ahorow a w]de kaa “Mont] no /m<sup>w</sup>ɔnt<sup>w</sup>] # n<sup>w</sup>ɔ/”. Akuapem peekye kyer[p[n no hy[ ase fi 159Hz kosi 212Hz [na Asante de no nso hy[ ase fi 173Hz de kosi 198Hz. Mfonini no ma yehu s[, fi selaboro a edi kan kosi selaboro a [t] so abiesa no nyinaa peekye mma w] soro. Mmom no yehu s[ Akuapem de no w] soro kakraa bi sen Asante de nanso nsonsonoe a [w] mu ny[ ahe bi. Eyi nti yehu no s[ selaboro a edi kan kosi abiesa no nyinaa w] S peekye w] Akuapem ne Asante mu.

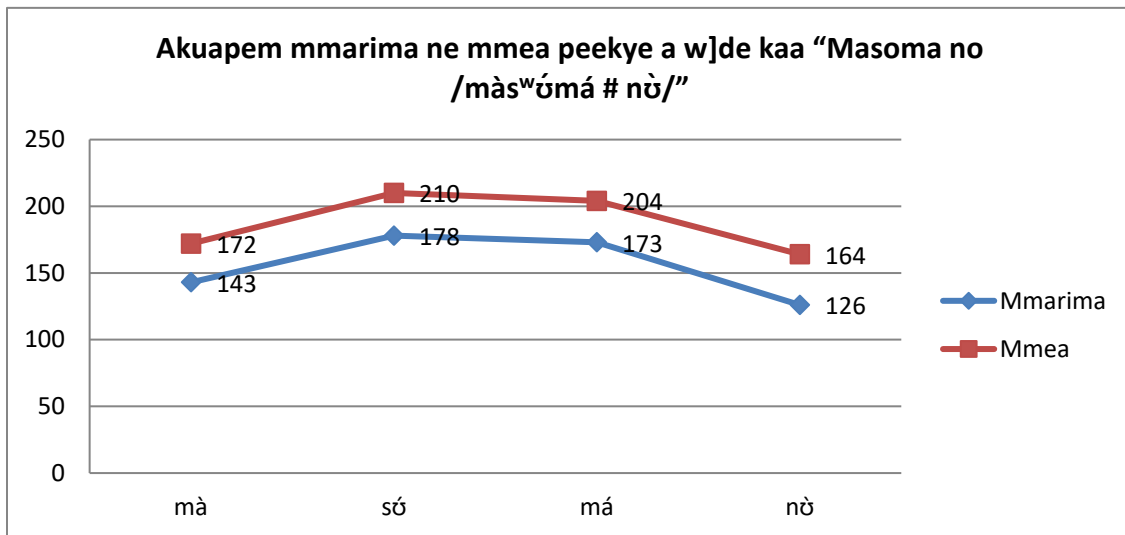
S[ y[hw[ selaboro a etwa to no de a, [da adi s[ w]n peekye mma no w] fam w] kasa abien no mu nanso, Asante de no w] soro kakra sen Akuapem de no. Nkyer[mu a [w] 4.2.5 (a) no ma yehu s[ Akuapem de no so F peekye esiane f[n]l]gyi dwumadi a ak] so nti. Asante de no nso yehu no s[ ne peekye aba no w] fam nanso [wo soro kakra sen Akuapem de no. Eyi di adanse s[ selaboro etwa to no so famgyina S peekye w] Asante mu s[nea nkyer[mu a [w] 4.2.5 (b) kyer[ no. Eyi nti Akuapem de no toonu nhyehy[e no b[y[ SSSF na Asante de no ay[ SSS<sup>1</sup>S. Nsonsonoe a [w] mu no gyina selaboro a etwa to no so.

#### **4.2.6 (a) Edinnnsinanmu ne adey[ as[m a ekita selaboro abien anaa nea [boro saa a [w] ay[asie kabea mu ne edinnsiananmu a [y[ ]y[tia (Akuapem Twi)**

Edinnnsinanmu ne adey[ as[m a ekita selaboro abien anaa nea [boro saa a [w] ay[asie kabea mu ne edinnsiananmu a [y[ ]y[tia nso y[ sentase nhyehy[e a nsonsonoe da ne toonu nhyehy[e mu w] Asante ne Akuapem mu. Sei na Akuapem mmea ne mmarmima akasafo a mede w]n dii dwuma no peekye a w]de kaa “Masoma no /màs<sup>w</sup>ómá # nò/” no da adi w] ]pon ne mfonini a edi so no mu.

Ƴpon 34: Akuapem mmea ne mmarima peekye a w]de kaa “Masoma no /màs<sup>w</sup>ómá # nò/”

Selaboro	mà	s <sup>w</sup> ó	má	n <sup>w</sup> ò
Mmarima	143	178	173	126
Mmea	172	210	204	164



*Mfonini 34: Akuapem mmarima ne mmea peekye*

Mfonini a [w] soro h] no kyer[ Akuapem mmea ne mmarima no peekye nk]nt]noe a w]de kaa “Masoma no /màs<sup>w</sup>ómá # nò/”. Mfonini no ma yehu s[, mmarima no peekye kyer[p[n no hy[ ase fi 126Hz a [so selaboro a edi kan no kosi 178Hz a [no nso so selaboro a [t] so abien no. Mmea no peekye kyer[p[n no hy[ ase fi 164Hz a [so selaboro a etwa to no kosi 210Hz a [no nso so selaboro a [t] so abien te s[ mmarima no de no ara.

Mfonini no ma yehu s[, afaanu no nyinaa mu no selaboro a edi kan no w] fam [na nea [t] so abien ne abiesa no nso w] soro. {no akyi no, nea etwa to no nso ba fam koraa a ne peekye aba no mpo w] fam sen nea edi kan no mpo. S[nti a selaboro a etwa to no w] fam

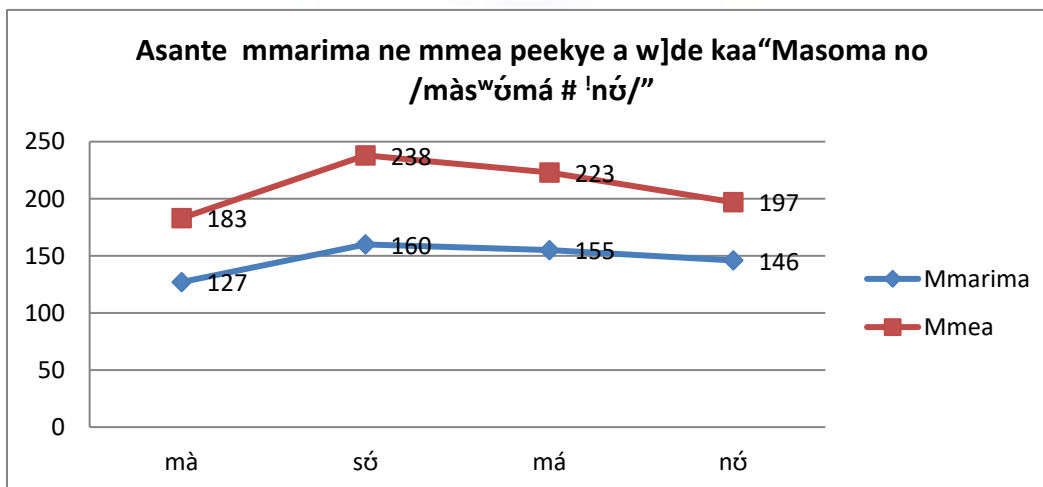
no nkyer[mu na mede ama w] 4.2.5 (a) no mu no. Eyi di adanse s[ toonu nhyehy[e a [da adi w] sentase nhyehy[e yi mu no y[ FSSF.

#### 4.2.6 (b) Edinnsinanmu ne adey[ as[m a ekita selaboro abien anaa nea [boro saa a [w] ay[asie kabea mu ne edinnsiananmu a [y[ ]y[tia (Asante Twi)

Asante mmarima ne mmea akasafo a mede w]n dii dwuma no nso, sei na w]n peekye a w]de kaa “Masoma no /màs<sup>w</sup>ómá # 'nú/” no da adi w] ]pon ne mfonini a edi so no so.

}pon 35: Asante mmarima ne mmea peekye a w]de kaa “Masoma no /màs<sup>w</sup>ómá # 'nú/”.

Selaboro	mà	s <sup>w</sup> ó	má	'n <sup>w</sup> ó
Mmarima	127	160	155	146
Mmea	183	238	223	197



*Mfonini 35: Asante mmarima ne mmea peekye*

Mfonini yi kyer[ mmarima ne peekye nk]nt]noe a w]de kaa “Masoma no /màs<sup>w</sup>ómá #<sup>1</sup>nó/”. Mmarima no peekye kyer[p[n no hy[ ase fi 127Hz a [so selaboro a edi kan no kosi 160Hz a [so selaboro a [t] so abien no. Mmea no afa mu nso, w]n peekye kyer[p[n no hy[ ase fi 183Hz a [so selaboro a edi kan no kosi 238Hz a [no nso so selaboro a [t] so abien te s[ mmarima no de no ara.

Afaanu no nyinaa mu no, selaboro a edi kan no peekye mma no w] fam [na nea [t] so abien ne abiesa no nso w] soro nanso nea [t] so abien mma no w] soro kakra sen nea [t] so abiesa no. Nea [t] so anan no nso w] fam kakra de nanso enni fam nsen nea edi kan no. Afei nso nsonsonoe a [w] [ne nea [t] so abiesa no mu ny[ ahe bi. Eyi di adanse s[, selaboro a [t] so anan no nso F peekye na mmom [y[ famgyina na ak] so na ama no ab[y[ famgyina S. Eyi ho nkyer[mu w] 4.2.5 (b) mu. Wei da no adi s[, Asante toonu nhyehy[e a [w] sentase nhyehy[e yi mu no y[ FSS<sup>1</sup>S.

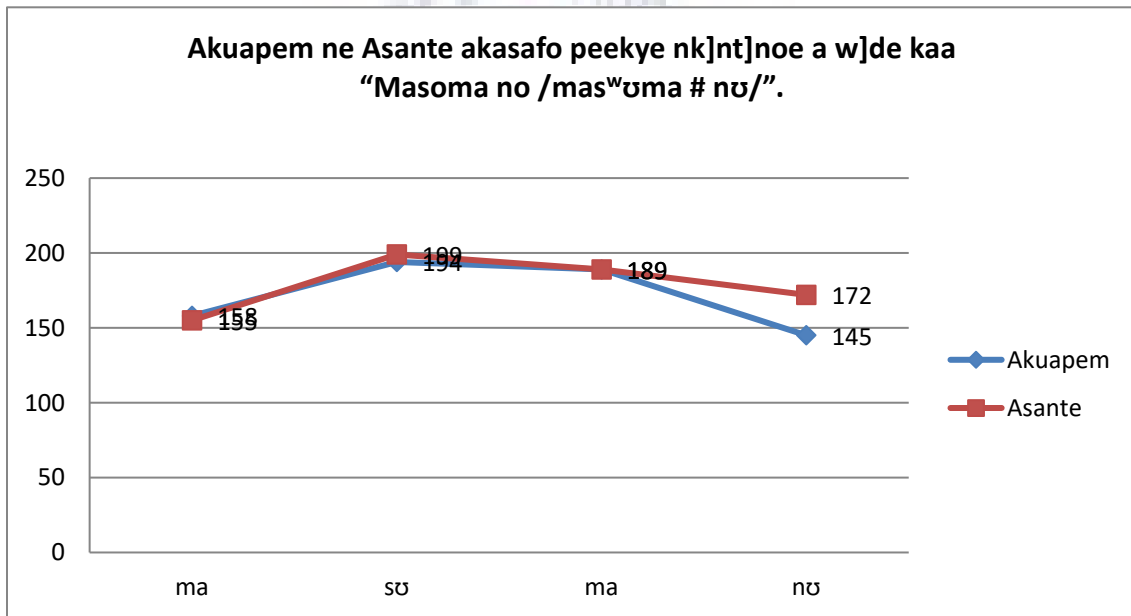
**4.2.6 (d) Edinnnsinanmu ne adey[ as[m a ekita selaboro abien anaa nea [boro saa a [w] ay[asie kabea mu ne edinnsiananmu a [y[ ]y[tia (Akuapem ne Asante Twi)**

Y[ahw[ peekye ahorow a [da adi w] kasa abien no mu awie no, ]fa yi de peekye miini ahorow a [da adi w] kasa abien no mu no b[toto ho ahw[ nsonsonoe a [da adi w] toonu

nhyehy[e a [w] sentase nhyehy[e no mu. Sei na Asante ne Akuapem akasafo peekye miini no da adi w] ]pon ne mfonini a edi so no so.

}pon 36: Akuapem ne Asante akasafo no peekye a w]de kaa “Masoma no /mas<sup>w</sup>ɔma # n<sup>w</sup>ɔ/”.

Selaboro	ma	s <sup>w</sup> ɔ	ma	n <sup>w</sup> ɔ
Akuapem	158	194	189	145
Asante	155	199	189	172



*Mfonini 36: Akuapem ne Asante akasafo peekye*

Mfonini no kyer[ peekye miini a [da adi w] Akuapem ne Asante akasafo peekye ahorow a w]de kaa “Masoma no /mas<sup>w</sup>ɔma # n<sup>w</sup>ɔ/”. Akuapem akasafo no peekye kyer[p[n no hy[ ase fi 145Hz a [so selaboro a etwa to no kosi 194Hz a [so selaboro a [t] so abien no. Asante de w]n peekye kyer[p[n no hy[ ase fi 155Hz a [so selaboro a edi kan no mmom kosi 199Hz



a [so selaboro a [t] so abien no. Mfonini no da no adi s[, selaboro a edi kan no peekye mma y[158Hz w] Akuapem [na 155Hz w] Asante mu a [kyer[ s[ ne nyinaa w] fam. Nea [t] so abien ne abiesa no so nso, w]n peekye mma y[ 194Hz ne 189Hz w] Akuapem [na 199Hz ne 189Hz a [kyer[ s[ ne nyinaa nso w] soro w] kasa abien no mu. Eyi da adi s[, kasa abien no nyinaa mu no, toonu ahorow a [soso selaboro biako kosi abiesa no nyinaa y[ FSS.

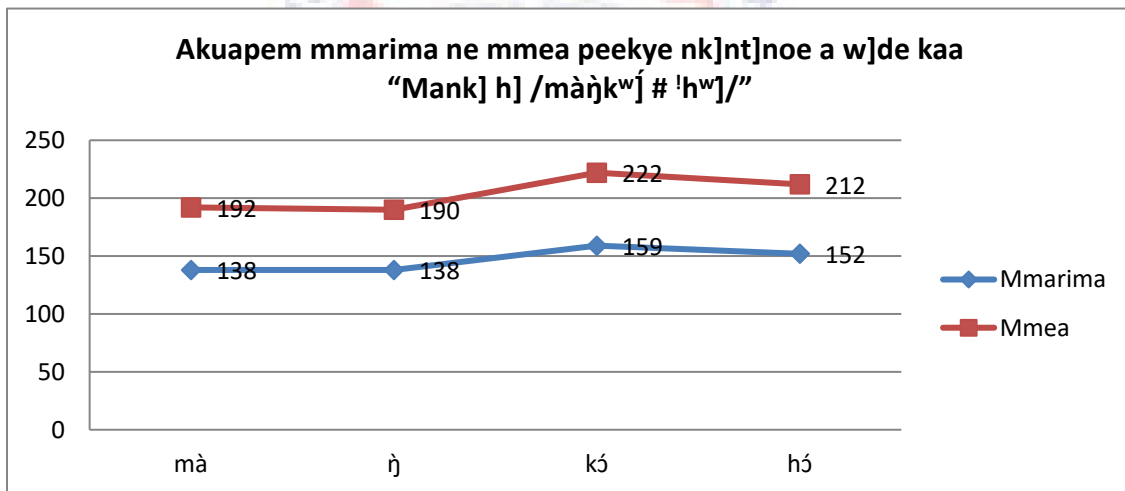
S[ y[hw[ selaboro a [t] so anan no nso so a, yehu s[, Akuapem peekye mma no y[145Hz a [w] fam mpo sen selaboro a edi kan no de no a eyi di adanse s[ [no nso peekye no w] fam [nam f]n]l]gyi dwumadi a ak] so s[nea madi kan akyer[ mu w] 4.2.5 (b) mu no. Selaboro a [t] so anan w] Asante mu no nso, ne peekye aba no y[ 172Hz a [w] soro sen nea edi kan a [w] fam no nanso ennu nea [t] so abien ne abiesa no a [w] soro no. Eyi ma yehu s[ Asante selaboro a [t] so anan no so famgyina S peekye. Eyi da no adi s[ nsonsonoe no gyina selaboro a [t] so anan no nko ara so. Eyi nti, Akuapem sentase nhyehy[e yi toonu nhyehy[e y[ FSSF [na Asante de no y[ FSS'S. Eyi di adanse s[, nsonsonoe da toonu nhyehy[e [w] sentase nhyehy[e a ekita edinnsinanmu ne adey[ as[m a ekita selaboro abien anaa nea [boro saa a [w] ay[asie kabea mu ne edinnsiananmu a [y[ ]y[tia w] Akuapem ne Asante mu.

**4.2.7 (a) Edinnsiananmu ne ngoo adey[ as[m a [w] ay[asie kabea mu ne edin akyi sibe  
(Akuapem)**

Edinnsiananmu ne ngoo adey[ as[m a [w] ay[asie kabea mu ne edin akyi sibe a y[ sentase nhyehy[e a nsonsonoe da ne toonu nhyehy[e mu w] Akuapem ne Asante mu. Saa nhyehy[e yi kita edin akyi sibe a [w] selaboro biako p[. Sei na Akuapem mmarima ne mmea akasafo a mede w]n dii dwuma no peekye a w]de kaa “Mank] h] /mà]k<sup>w]</sup> # 'h<sup>w]</sup>/'” na [da adi w] ]pon ne mfonini a edi so no so no.

}pon 37: Akuapem mmarima ne mmea peekye a w]de kaa “Mank] h] /mà]k<sup>w]</sup> # 'h<sup>w]</sup>/'”

Selaboro	mà	h]	k <sup>w]</sup>	'h <sup>w]</sup>
Mmarima	138	138	159	152
Mmea	192	190	222	212



*Mfonini 37: Akuapem mmarima ne mmea peekye*

Mfonini no kyer[ Akuapem mmea ne mmarima akasafo peekye a w]de kaa “Mank] h] /mà]k<sup>w]</sup> # 'h<sup>w]</sup>/'”. Mmarima no peekye kyer[p]n no hy[ ase fi 138Hz a [soso selaboro a edi kan ne nea [t] so abien no kosi 159Hz a [no nso so selaboro a [t] so abiesa no. Mmea no nso peekye kyer[p]n no hy[ ase fi 190Hz a [so selaboro a [t] so abien no so kosi 222Hz a

[no nso so selaboro a [t] so abiesa no. Mmea no fa mu no, nsonsonoe a [da selaboro a edi kan ne nea [t] so abien no peekye aba mu no y[ 2Hz a [kyer[ s[ ne nyinaa rey[ ay[ p[ ara ne sa. S[ y[hw[ afaanu no nyinaa mu a, yehu s[, selaboro a edi kan ne nea [t] so abien no w] fam [na nea [t] so abiesa no w] soro pa ara na [so asan ahuan kakra w] nea [t] so anan no so.

Nea [t] so anan no so ahuan kakra de nanso ne famba no nnu nea edi kan ne nea [t] so abien no. Edin akyi sibe a [ma yenya selaboro a [t] so anan no y[ “[no/ìh<sup>wó</sup>” a ekita FS toonu nhyehy[e w] n’ab]se mu. Esiane s[ /[-/ no ayera nti, agyaw ne fam toonu a ab[y[ agyanka no ma no ahuan S toonu a [so /-h<sup>ó</sup>/ no ab[y[ famgyina. Yebetumi akyer[ s[ [no na ama selaboro a etwa to no S peekye no so ahuan kakra no. Akuapem mu no, sentase nhyehy[e yi toonu nhyehy[e no FFS<sup>1</sup>S.

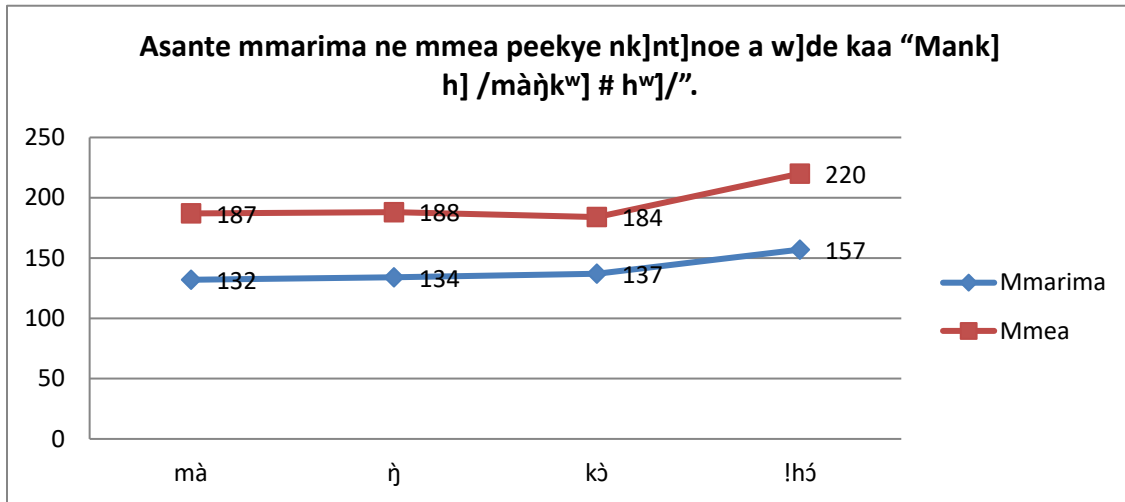
**4.2.7 (b) Edinnsiananmu ne ngoo adey[ as[m a [w] ay[asie kabea mu ne edin akyi sibe a (Asante).**

Asante mmарima ne mmea a mede w]n dii dwuma no nso, sei na w]n peekye a w]de kaa “Mank] h] /mà<sup>̀</sup>ṅ<sup>̀</sup>k<sup>w]</sup> # h<sup>w]</sup>” no da adi w] ]pon ne mfonini a edi so no so.

}pon 38: Asante mmарima ne mmea peekye a w]de kaa “Mank] h] /mà<sup>̀</sup>ṅ<sup>̀</sup>k<sup>w]</sup> # h<sup>w]</sup>”.

Selaboro	mà <sup>̀</sup>	ṅ <sup>̀</sup>	k <sup>w]</sup>	h <sup>w]</sup>
Mmarima	132	134	137	157

Mmea	187	188	184	220
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*Mfonini 38: Asante mmarima ne mmea peekye*

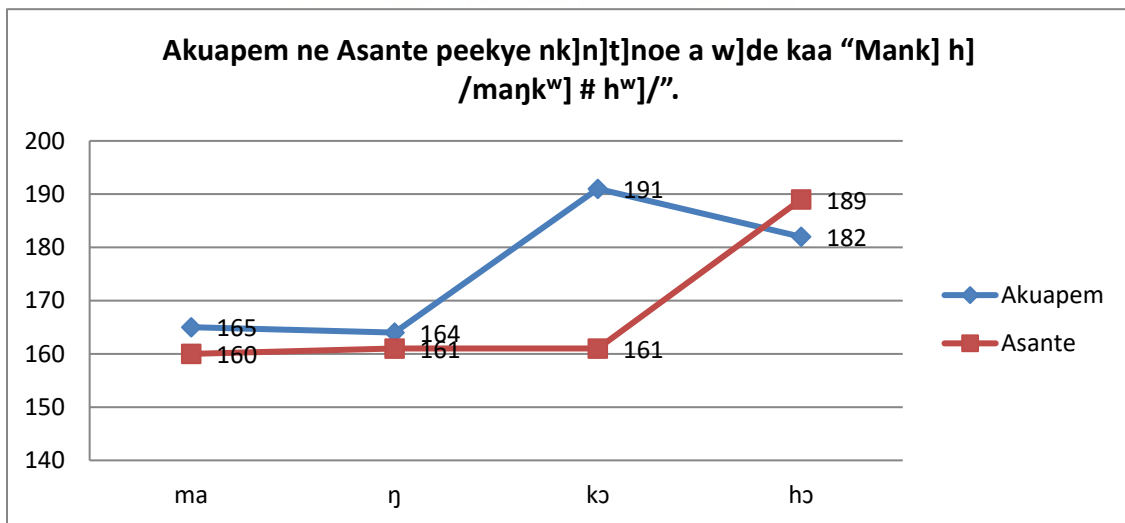
Mfonini no kyer[ Asante mmarima ne mmea peekye a w]de kaa “Mank] h] /mà]k<sup>w</sup>] # h<sup>w</sup>]”. Mmarima no peekye kyer[p]n no hy[ ase fi 184Hz kosi 220Hz. Mmea no nso peekye kyer[p]n no hy[ ase fi 132Hz kosi 157Hz. S[ y[hw[ afaanu no nyinaa a nk]nt]noe no da no adi s[, fi selaboro a edi kan kosi nea [t] so abiesa no nyinaa peekye no w] fam. Efi h] a na emu apagya w] nea [t] so anan no so. Adey[ as[m a [w] nhyehy[e no mu as[nhini a [y[ /k<sup>w</sup>]/ no toonu no w] soro nanso toonu agyanka a edi edin akyi sibe a no anim no atene ak] b[nkum so ama asesa adey[ as[nhini no afi S ma ab[y[ F. {no akyi no ama selaboro a etwa to no afa famgyina S peekye. Eyi ma yehu s[, Asante toonu nhyehy[e a [da adi w] sentase nhyehy[e yi mu no y[ FFF]S.

**4.2.7 (d) Edinnsiananmu ne ngoo adey[ as[m a [w] ay[asie kabea mu ne edin akyi sibe a (Akuapem ne Asante).**

Sei na Akuapem ne Asante peekye ntotoho w] sentase nhyehy[e no mu no te w] ]pon ne mfonini a edi so no mu.

}pon 39: Akuapem ne Asante akasafo peekye a w]de kaa “Mank] h] /maŋk<sup>w</sup>] # h<sup>w</sup>]”.

Selaboro	ma	ŋ	k <sup>w</sup> ]	h <sup>w</sup> ]
Akuapem	165	164	191	182
Asante	160	161	161	189



*Mfonini 39 : Akuapem ne Asante akasafo peekye*

Mfonini no kyer[ Asante ne Akuapem akasafo no peekye miini a w]de kaa sentase nhyehy[ no. Akuapem akasfo no peekye kyer[p[n no hy[ ase fi 164Hz kosi 191Hz. Asante akasafo no nso peekye kyer[p[n no hy[ ase fi 160Hz kosi 189Hz. S[ y[hw[ mfonini no so, [da adi s[, selaboro a edi kan ne nea [t] so abien no peekye aba no y[ 165Hz ne 164Hz w] Akuapem mu [na 160Hz ne 161Hz w] Asante mu. Eyi ma yehu s[, nsonsonoe a [w] kasa abien no peekye aba mu w] selaboro no biara mu nhy[ da ny[ ahe.

Selaboro a [t] so abiesa no so no, yehu w] mfonini no so s[ Akuapem de no peekye aba no w] soro pa ara sen Asante de no. Akuapem peekye aba no y[ 191Hz [na Asante de no y[ 161Hz a [ne ne selaboro a [t] so abiesa no nyinaa y[ p]. Eyi di adanse s[, selaboro a [t] so abiesa no so no, Akuapem de no so S peekye [na Asante de no so F peekye. Asante selaboro a [t] so abiesa no y[ F toonu esiane toonu tene bi a ak] so s[nea makyer[ mu w] 4.2.7(b) mu no. Wei di adanse s[ Akuapem toonu nhyehy[e a FFS<sup>1</sup>S [na Asante de no nso y[ FFF<sup>1</sup>S. Nsonsonoe a [w] mu no gyina selaboro a [t] so abiesa no nko ara so. Eyi ma yehu s[, nsonsonoe da edinnsiananmu ne ngoo adey[ as[m a [w] ay[asie kabea mu ne edin akyi sibe a toonu nhyehy[e mu w] Akuapem ne Asante mu.

### **4.3. }fa yi Muab]**

}fa a [t] so anan w] dwumadi mu no y[ dwumdi no fa a [hw[[ akusteke mp[ns[mp[ns[mu a [w] dwumadi no mu no ho. }fa yi nam akusteke mp[ns[mp[ns[mu a egyina PRAAT so akyer[ sentase nhyehy[e ahorow binom a w]n toonu nhyehy[e y[ p[ w] Asante Twi ne Akuapem Twi mu a [no bua nhwehw[mu no ho as[mmisa a edi kan no. Bio nso, [nam saa kwan no ara so akyer[ sentase nhyehy[e binom nso a nsonsonoe da w]n toonu nhyehy[e mu w] Akuapem Twi ne Asante Twi mu a [no nso bua nhwehw[mu no ns[mmisa a [t] so abien no. }fa yi de sentase nhyehy[e biako gyinaa h] maa sentase nhyehy[e biara w] akusteke mp[ns[mp[ns[mu yi mu. S[nea madi kan akyer[ mu no, misi so s[, sentase nhyehy[e pii na w]n toonu nhyehy[e y[ p[ anaas[ nsonsonoe da ntam w] kasa abien no mu nanso [nam s[nea dwumadi yi ntr[wmu te fa nti kakra yin a mepaw de dii dwuma. Ebi b[san apue mu

w] nkekaho no mu. }fa a edi h] no mu no, y[b[hw[ s[nea nsonsonoe no bi da w]n ho adi w] }tos[gyem[ntal Ti]ri mu.

## **}FA A {T} SO ANUM**

### **SENTASE NHYEHY{E AHOROW A NSONSONOE DA W}N TOONU NHYEHY{E MU W} }TOS{GYEM{NTAL TI}RI MU**

#### **5.0 Nnianim**

}fa yi b[boa ama y[ahu sentase nhyehy[e ahorow binom a nsonsonoe da w]n toonu nhyehy[e mu w] }tos[gyem[ntal Ti]ri mu. }tos[gyem[ntal Ti]ri b[boa ama y[ahu s[nea toonu tene ne toonu sandi ne anto sandi mmara ahorow binom di dwuma w] sentase nhyehy[e ahorow no mu. Ti]ri yi nam nsaw]so nsensane so b[kyer[ s[nea selaboro ahorow a [w] sentase nhyehy[e ahorow no toonu te w] w]n ab]se mu. {no akyi no, [b[san agyina so akyer[ nhyehy[e ahorow a selaboro ahorow no fa mu ansa na y[anya w]n awtputu ahorow no w] kasa abien no mu.

**5.1 }dede edin kasasin a ekita edinnsiananmu ne edin as[m a efi edin kuw (I) mu a ekita FS toonu.**

S[nea magyina akusteke mp[ns[mp[ns[mu mu akyer[ mu w] ]fa a [t] so anan no mu no, s[ edinnsiananmu bi ne edin as[m a edin kuw (l) mu a ekita FS toonu hyia a, yenya nsonsonoe w] Asante Twi ne Akuapem Twi kasa nkorabata no mu. Abakah (2005) kyer[ s[, Akan edin nkyekyemu ahorow a egyina w]n toonu so no, edin kuw (l) no y[ nea ne toonu a ekita no no y[ FS.

Akuapem mu no, s[ edin as[m a [w] edin kuw (l) yi mu ne edinnsiananmu bi hyia w] ]dede nhyehy[e mu a, edin no toonu no nsesa ma nti yebenya SFS toonu. Asante mu de, edin no toonu a ekita no w] n'ab]se mu no sesa b[y[ SS ma edin kasasin no nyinaa b[fa FSS.

Y[nhw[ nhw[so ahorow a [te saa w] Asante ne Akuapem mu na y[nhw[ s[nea w]n toonu nhyehy[e sesa b[y[ w] mmere a ns[mfua abien no anya nkitaho w] edin kasasin mu.

(21)	<b>Ab]se</b>	<b>Akuapem</b>	<b>Asante</b>
	mɪ # sɪká	mí sɪká	mì sí'ká
	mɪ # k]t[	mí k]t[	mì k]'t[
	mɪ # pòmá	mí pòmá	mì pó'má
	mɪ # pàtá	mí pàtá	mì pá'tá
	mɪ # kùbé	mí kùbé	mì kú'bé

S[ y[hw[ nhw[so a [w] (19) no mu a, [da adi s[ Akuapem toonu nhyehy[e no nsesa nanso Asante mu de, toonu nhyehy[e no sesa.



{wom s[ Akuapem mu de, toonu no nsesa nanso s[ y[hw[ edin as[m no toonu nhyehy[e no w] mmere a egyina k]ntenkoro a, ekita FS toonu a S toonu a [w] mu no y[ S ankasa.

S[ y[hw[ edinnsianmu no de a, emu biara nso toonu. Abakah (2005) kyer[ s[, ]dede nhyehy[e mu no, mp[n pii no edinnsianmu a [w] mu no nso toonu. Eyi nti, [hw[ toonu a [so selaboro a edi kan w] edin as[m a [toa ne so no so ansa na atumi ahu toonu p]tee a [b[soa. S[ y[hw[ Akuapem de no mu a, yehu s[ edinnsiananmu no afa toonu a [ne nea [so selaboro a edi kan w] edin as[m no mu no b] abira. Eyi kyer[ s[, Akuapem de toonu polaraeseehen adi dwuma w] h]. Asante mu nso de, yehu no s[, edinnsiananmu no ab[soa F toonu a yebetumi akyer[ s[ [y[ selaboro a edi kan w] edin as[m no mu no na atene ne F toonu ak] b[nkum so ak]ma edinnsiananmu no. {no akyi nso, yehu s[, F toonu a anka [so selaboro a edi kan w] edin as[m no mu no nso asesa ab[y[ S a [no nso yebetumi aka s[, S toonu a [so selaboro a etwa to no na atene ak] ne b[nkum so ak]sesa no w] mmere a y[aka ns[mfua abien no abom no.

Dolphyne (2006) nso kyer[ s[, Akan mu no, s[ yenya ns[mfua bi a [b[ka bom ma y[n SFS toonu nhyehy[e a, esiane s[ toonu a [hy[ Soro ne Soro toonu no mfimfini no y[ Fam toonu na ekita fam peekye no nti, [de saa ne fam peekye ho nsunsuanso no k]to S toonu a [w] ne nifa so no so ma [br[ saa S toonu no soro peekye a ekita no no ase. {ba no saa a, saa Soro peekye a ekita Soro toonu a epue fam toonu no akyi no peekye no w] fam sen soro toonu a edi kan no nti saa soro toonu a ne peekye ak] fam yi b[y[ famgyina. Eyi da adi w] Akuapem nhw[so no mu esiane s[, bere a y[aka ns[mfua abien no abom no, [w] mu s[ toonu nhyehy[e no nhy[ da nsesa de nanso soro toonu ahorow ([y[ nea edi kan ne nea

etwa to) no b[y[ alotoonu ahorow; [ne s[ saa Soro toonu ahorow yi nyinaa ny[ p[ esiane s[ nea etwa to no b[y[ Famgyina Soro toonu [na nea edi kan no y[ soro toonu ankasa. Famgyina S toonu yi y[ pr[kop[ Famgyina S toonu esiane s[ F toonu no w] h].

S[ y[hw[ Asante de no mu nso a, biribi soronko koraa na [rek] so w] mu. {no ne s[, edin kasasin no toonu nhyehy[e b[y[ FS'S. Bere a y[aka ns[mfua abien no abom ma ab[y[ ]dede edin kasasin no, edinnsiananmu a anka [nso toonu biara no b[fa F toonu a yehu no s[ enya fii selaboro a edi kan w] edin as[m no mu no. Afei nso, selaboro a edi kan a [w] edin as[m no mu a ekita fam toonu no sesa y[ S nanso ne F peekye no ay[ agyanka na afei nso selaboro a etwa to no de, ne toonu no nsesa; [y[ Soro no ara. Saa Soro yi y[ anto-pr[kop[ Famgyina S toonu. Eyi mu no, yetumi hu s[, toonu su tr[w bi na ak] so.

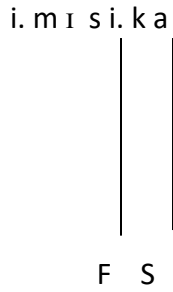
Eyi ma yehu s[, nsonsonsoe a [w] sentase nhyehy[e yi toonu nhyehy[e ahorow yi w] kasa abien no mu no gyina selaboro a edi kan ne nea [t] so abien no so. Akuapem mu no, yehu no s[, toonu mmara biako p[ na edi dwuma a [y[ toonu polaraeseehyen w] selaboro a edi kan a na anka [nso toonu no so. Asante mu nso, [da adi s[, toonu tene nhyehy[e ahorow abien na ak] so.

Nea edi kan no y[ fi selaboro a edi kan w] edin as[m no a atene ne F toonu ama edinnsiananmu no ne selaboro a etwa to w] edin as[m no mu a [no nso atene ne S toonu ama selaboro a edi kan no. Metoa so si so dua s[, Akuapem mu no, sentase nhyehy[e yi toonu nhyehy[e b[y[ SFS a S a etwa to no y[ famgyina [na Asante nso de no b[y[ FS'S.

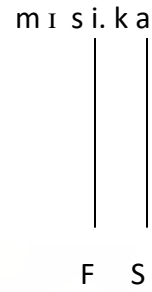
Sei ne nhyehy[e ahorow a sentase nhyehy[e yi toonu nhyehy[e no fa mu ansa na y[anya ne awtputu no.

(22) Edin as[m a efi edin kuw (I) mu a ekita FS toonu no nhyehy[e w] ]tos[gyem[ntal  
dua so.

**Akuapem**

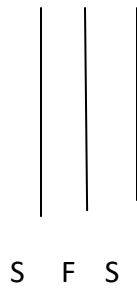


**Asante**



imputu

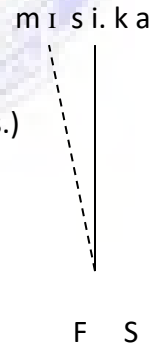
ii. m I s i. k a



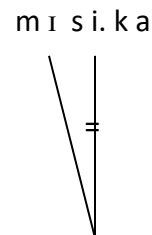
toonu polaraeseehyen mmara (Ak.)



iii. \_\_\_\_\_ Fam toonu tene k] b[nkum (As.)



iv. \_\_\_\_\_ Fam toonu ntwamu



F S

m I s i . k a

v. \_\_\_\_\_ Fam toonu agyankay[ (As.)



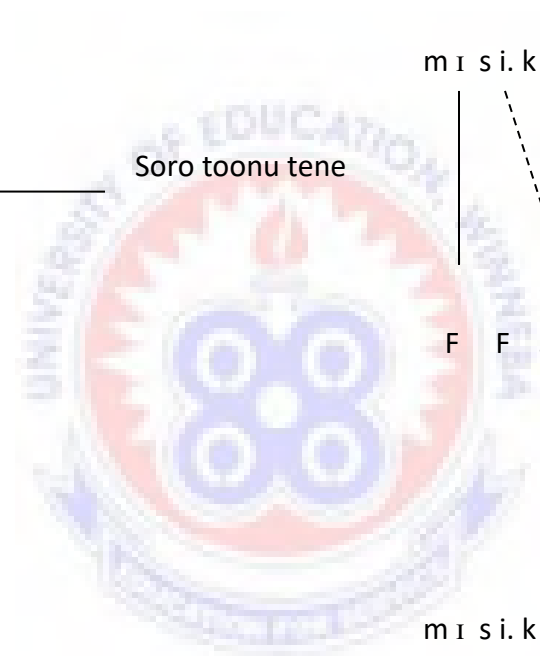
F F S

m I s i . k a

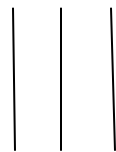
vi. \_\_\_\_\_ Soro toonu tene



F F S



vii. m I s i . k a

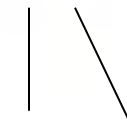


S F S

[m'í s'íká]

ne ka mu

m I s i . k a



F S

[m'ì s'.'ká]

**5.2 }dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nyehy[e y[ SFS**

{da no adi w] dwumadi yi fa a [t] so anan no akusteke adansedi no mu s[, s[ edinnsiananmu ne edin a ne toonu nhyehy[e y[ SƆS hyia a nsonsonoe b[da w]n toonu nhyehy[e no mu w] Asante Twi ne Akuapem Twi nkorabata no mu.

Abakah (2005) kyer[ s[, edin as[m a ekita toonu nhyehy[e yi no ka edin kuw II no ho. Ɔ toonu a [hy[ S abien no mfimfini no y[ toonu agyanka bi a yenhu. {no nti [ma S a etwa to no y[ famgyina. W] ani so no, edin as[m yi toonu nhyehy[e ak]y[ s[ SS nanso ekita F toonu agyanka bi a y[nhy[ da nhu w] nhyehy[e no mu. Edin as[m yi mu no, [nam s[ y[w] Ɔ toonu bi a [y[ agyanka a [hy[ S abien no ntam nti, [ma S a etwa to no b[y[ famgyina. Saa famgyina yi bi na Abakah (2005), Dolphyne (2006) ne Abakah et al. (2010) kyer[ s[ ennyina nkyer[mu p]tee bi so no.

S[nea madi kan akyer[ no, edinnsiananmu a edi dwuma s[ ]dede no ntaa nni toonu s[nea Abakah (2005) kyer[ no. Y[nhw[ s[nea sentase nhyehy[e a [te sei no toonu nhyehy[e b[y[ w] Asante Twi ne Akuapem Twi mu w] nhw[so a edi h] yi mu.

**(23) Edinnsiananmu ne edin a ne toonu nhyehy[e y[ SƆS ho nhw[so**

	<b>Ab]se</b>	<b>Akuapem</b>	<b>Asante</b>
i.	mɪ # ɲán'sá	mí ɲán'sá	mì ɲán'sá
ii.	mɪ # mán'só	mí mán'só	mì mán'só
iii.	mɪ # mán'fó	mí mán'fó	mì mán'fó

iv. mɪ # sɪn'tɔ̃

mɪ sɪn'tɔ̃

mì sɪn'tɔ̃

S[ y[hw[ nhw[so a [w] (20) mu yi a, [a adi pefee s[ nsonsonoe da kasa abien no toonu nhyehy[e no mu.

S[nea makyer[ mu dedaw no, edinnsiananmu no nso toonu biara na mmom [hw[ toonu a [so selaboro a [b[n no no ansa na ahu toonu ko p]tee a [b[fa. {da adi w] nhw[so no mu s[, nsonsonoe no nhy[ da nnyina edin as[m no ankasa so na mmom egyina edinnsiananmu no mmom so. {no ne s[, edinnsiananmu a anka [nso toonu w] n'ab]se mu no toonu a [b[fa w] mmere a [ne edin as[m a [w] edin kuw (II) mu no ahyia no so na nsonsonoe p]tee no ankasa gyina.

{da adi s[, Akuapem de no mu no, edinnsiananmu a [nso toonu no ak]fa S toonu ma edin kasasin no toonu nhyehy[e no ab[y[ SSƆS. Asante de no mu nso, yehu s[ edinnsiananmu no ak]fa F toonu ma ]kasasin no toonu nhyehy[e no ab[y[ FSƆS. Wei di adanse s[ nsonsonoe no gyina edinnsiananmu no toonu no so esiane s[, edin as[m no mu de, emu biara no toonu no nsesa.

Akuapem de no mu no, yehu no s[, toonu tene bi na ak] so w] h]. Eyi y[ b[nkum fam soro toonu tene. S[ y[hw[ selaboro a edi kan w] edin as[m no mu a, [so S toonu [na edinnsiananmu no nso ab[fa S toonu. Yebetumi agyina eyi so aka s[, S toonu a [so selaboro a edi kan a [w] edin as[m no mu no atene ak] ne b[kum so ak]soa edinnsiananmu a anka

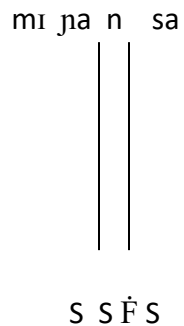
[nso toonu biara w] n'ab]se mu no ma [no nso ab[soa S toonu. Eyi ama sentase nhyehy[e no toonu nhyehy[e no ab[y[ SSĠS w] Akuapem Twi kasa no mu.

Asante de no mu no, yehu no s[, edinnsiananmu no ak]fa F toonu mmom. Y[hw[ nso a, toonu a [so selaboro a edi kan no nso so S toonu. Yebetumi aka s[, toonu polaraeseehyen mmara bi na ay[ adwuma w] ha. S[nti ne s[, edinnsiananmu no a enni toonu biara w] n'ab]se mu no ak]fa toonu a [ne nea [so selaboro a edi kan w] edin as[m no mu no b] abira.

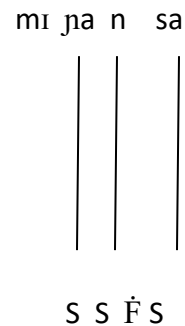
Sentase nhyehy[e yi mu no, yehu s[ Asante de toonu polaeraeseehyen na adi dwuma [na Akuapem nso de toonu tene nso adi dwuma ama w]ab[nya w]n awtputu ahorow a [da adi no. Sei ne nhyehy[e ahorow a sentase nhyehy[e yi toonu nhyehy[e no fa mu ansa na y[anya ne ka no.

**(24) Edinnsiananmu ne edin a ne toonu nhyehy[e y[ SĠS nhyehy[e w] }tos[gyem[ntal dua so**

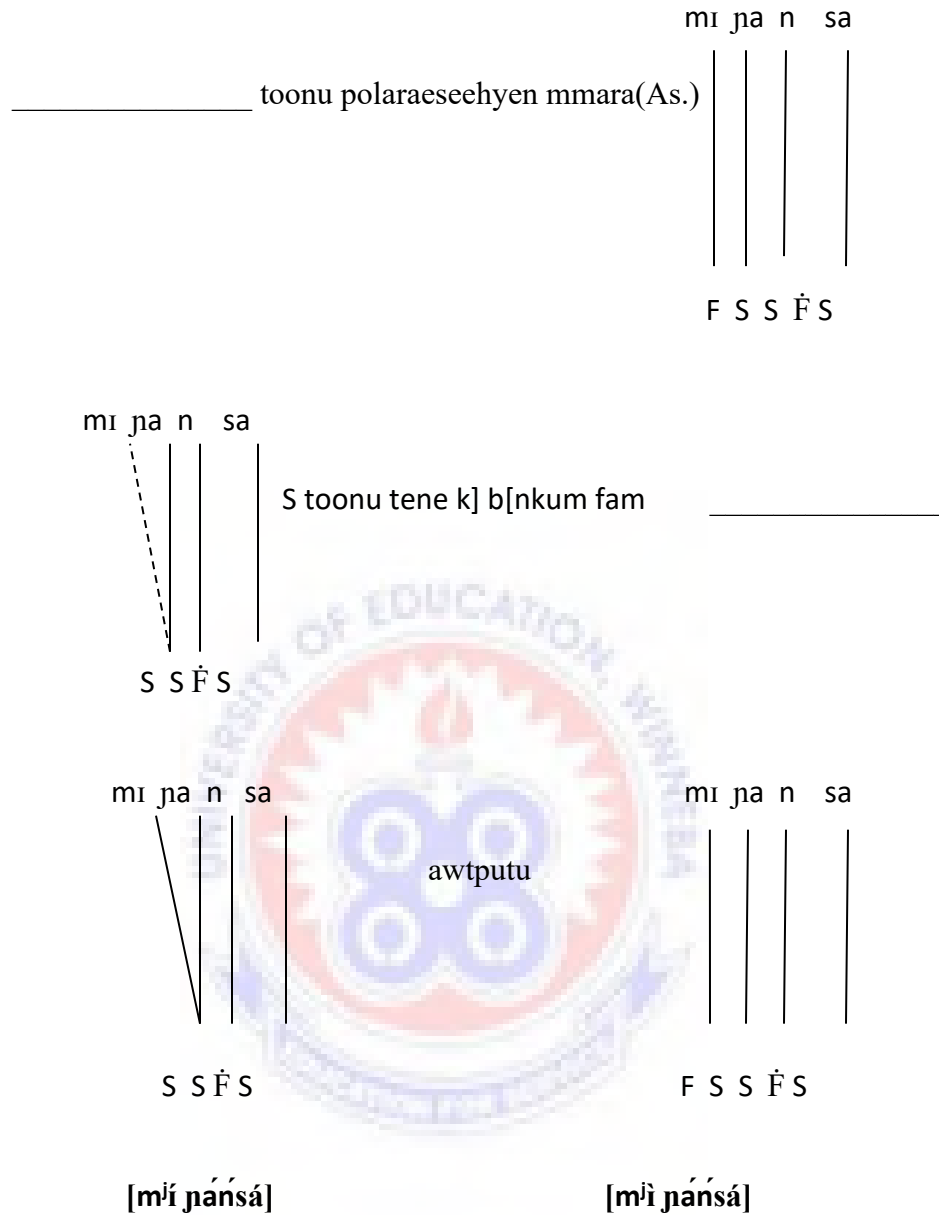
**Akuapem**



**Asante**



imputu



### 5.3 }dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ SF

Abakah (2005) kyer[ s[, saa edin as[m ahorow a ekita SF toonu nhyehy[e no y[ ns[mfua bi a Akan af[m afi Bor]fo mu. S[nti a ama no aba no saa ne s[ Akan nhy[ da nni ns[mfua binom a [tete saa.



Dolphyne (2006:78) nso kyer[ s[, saa edin ns[mfua a w]n toonu nhyehy[e y[ SF no dodow no ara y[ ns[mfua a w]af[m afi Bor]fo mu na w]de selaboro a ne setr[[se nnyigyei w] soro no gyina h] ma S toonu w] Akan mu. Eyi da no adi s[ Akan w] nso w] ns[mfua bi a wokita toonu nhyehy[e a [tete saa nanso [nn]]so te s[ nea w]af[m afi Bor]fo kasa mu no. Dolphyne de as[mfua /òwùrà/ a /o-/ edi kan no tumi yera w] mmere bi mu no y[[ mfataho de kyer[[ s[ Akan nso w] ns[mfua kakraa bi a [tete saa.

Adomako (2008) nso kyer[ s[, Akan af[m ns[mfua ahorow pii afi Europe akasa ahorow mu ab[ka ne ns[mfua ho ma [b[y[ den mpo s[ ]kasasin anaa ]kasamu bi mpo b[k] awiei a yennya as[mfua bi a w]af[m wom. Eyi da no adi s[, ns[mfua binom a w]af[m afi kasa foforo binom te s[ Bor]fo mu no ab[ka Akan ns[mfua no ho. Eyi ma ho kwan ma yetumi p[ns[mp[ns[m ns[mfua binom a [te sei mu s[ Akan ns[mfua.

Saa edin ns[mfua yinom nso, s[ [ne edinnsiananmu bi a [redi dwuma s[ ]dede hyia a, nsonsonoe b[da w]n toonu nhyehy[e mu w] Asante ne Akuapem Twi mu. Saa nsonsonoe p]tee a [b[da adi w] toonu nhyehy[e mu w] kasa abien yi ntam no gyina edinnsiananmu no toonu a [b[fa so bere a ahw[ toonu a [so selaboro a edi kan w] edin as[m no mu no. Eyi kyer[ s[, edinnsiananmu no b[hw[ toonu a [so selaboro a edi kan a [ne no redi ahyiam no ansa na apaw s[ [b[fa toonu a [ne no y[ p[ anaas[ nea [ne no b] abira. {s[ s[ y[hy[ no nsow nso s[, saa edinnsiananmu yi nso toonu biara w] n'ab]se mu s[nea Abakah (2005) kyer[ no.

Y[nhw[ s[nea sentase nhyehy[e yi toonu nhyehy[e t[ w] Akuapem Twi ne Asante Twi kasa mu. Eyi b[ma y[ahu nsonsonoe no.

**(25) Edinnsiananmu ne edin a ne toonu nhyehy[e y[ SF ho nhw[so**

	<b>Ab]se</b>	<b>Akuapem</b>	<b>Asante</b>
i.	mɪ # fótò	mí fótò	mì fótò
ii.	mɪ # títeà	mí títeà	mì títeà
iii.	wɔ # l[t[	wó l[t[	wò l[t[
iv.	wɔ # l]rì	wó l]rì	wò l]rì
v.	wɔ # sófì	wó sófì	wò sófì

Nhw[so no mu no, [da no adi s[ edinsiananmu ahorow a [wow] ]dede nhyehy[e yi mu no nso toonu biara w] n'ab]se mu nanso bere a abehyia edin as[m a ekita SF toonu no ab[soa toonu. Yehu s[, edin ns[mfua a [wow] nhyehy[e no mu no mu biara toonu nhyehy[e ahorow no ansesa w] kasa abien no mu. Toonu a [soso edinnsiananmu no nko ara na nsonsonoe w] mu w] kasa abien no mu na eyi na [de nsonsonoe no aba.

S[ y[hw[ Akuapem de no mu a, yehu s[ toonu a [so selaboro a edi kan w] edin as[m no mu no y[ S toonu. S[nea y[adi kan ate ase no nso, bere a ns[mfua abien ahyia no biako tumi ma ne ho kwan ma toonu a [so ]foforo no tumi nya nsunsuanso w] ne so anaa tene ka no. Yehu s[, edinnsiananmu a anka [nso toonu biara no ab[soa S toonu w] bere a [ne edin as[m no abehyia no. Yebetumi agyina eyi so akyer[ s[, b[nkum fam toonu tene na adi dwuma no. {no ne s[, S toonu a [so selaboro a edi kan w] edin as[m no mu

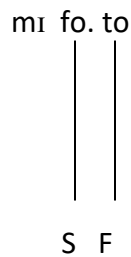
no na atene ne S toonu no ak] b[nkum so ak]ma edinnsiananmu no ma [no nso ab]soa S toonu. Eyi ama sentase nhyehy[e yi toonu nhyehy[e ab[y[ SSF w] Akuapem mu.

S[ y[hw[ Asante de no nso a, yehu s[ toonu a [so selaboro a edi kan w] edin as[m no mu no nso so S toonu saa ara. Bere a edinnsiananmu a [nso toonu no ne edin as[m yi hyiae no, edinnsiananmu no k]faa F toonu. Y[hw[ edin as[m no mu nso a yehu s[ F toonu na [so selaboro a etwa to a S toonu no ba ansa na aba. S[nea Goldsmith (1976) nso kyer[ no, mmara biako a [w] }tos[gyem[ntal nsaw]so nsensane ho ne s[ enni ho kwan s[ nsaw]so nsensane no twitwa w]n ho anan mu. Eyi nti F a etwa to no ntumi ntwa S no anan mu mm[tene ne F toonu su no mma edinsiananmu no. Esiane eyi nti yebetumi akyer[ s[, edinnsiananmu no k]faa toonu bi a [ne toonu a [so selaboro a edi kan no b[b] abira. Eyi kyer[ s[, Asante de toonu polaraeseehyen mmara na adi dwuma w] saa kwan yi so. Afei, sentase nhyehy[e yi toonu nhyehy[e ab[y[ FSF w] Asante mu.

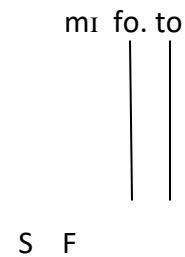
Y[nhw[ s[nea saa nhyehy[e yi da adi w] }tos[gyem[ntal dua a edi so yi so.

**(26) Edinnsiananmu ne edin a ne toonu nhyehy[e y[ SF w] }tos[gye[ntal dua so.**

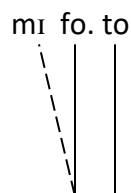
Akuapem



Asante

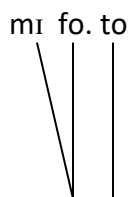


ab]se



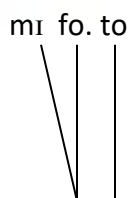
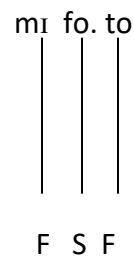
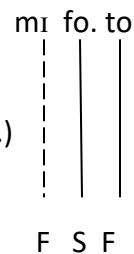
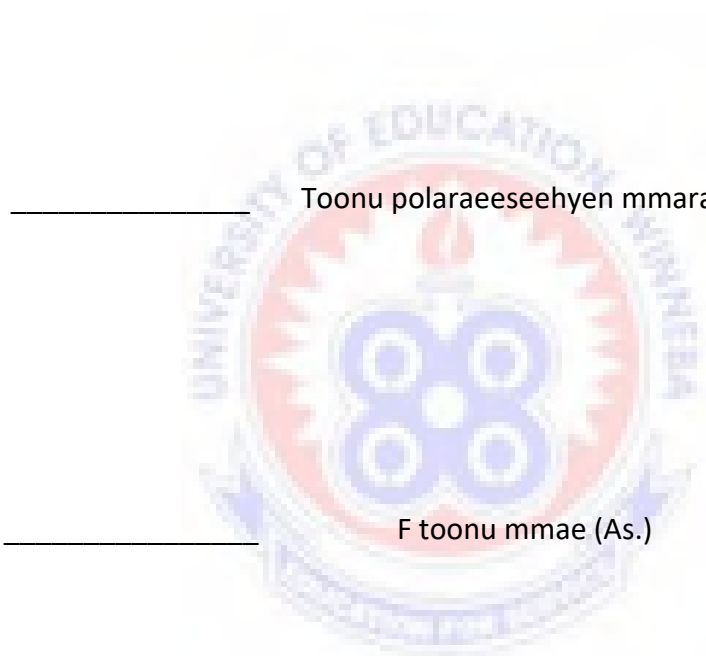
b[nkum fam S toonu tene (Ak.) \_\_\_\_\_

S F

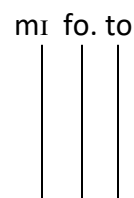


S toonu mmae (Ak.) \_\_\_\_\_

S F



ne ka mu



S F

F S F

[m'í f'wót'wò]

[m'í f'wót'wò]

**5.4 }hy[ kasamu a ekita edinnsiananmu, ]hy[ m]]fem ne edinnsiananmu a edi dwuma s[ ]y[tia**

Sentase nhyehy[e a ekita edinnsiananmu, ]hy[ m]]fem ne edinnsiananmu a edi dwuma s[ ]y[tia nso y[ nhyehy[e a nsonsonoe da w]n toonu nhyehy[e mu w] Akuapem ne Asante Twi mu no mu biako.

Nhyehy[e yi mu no, mp[n pii no, as[nhini a [w] mu no y[ adey[ as[m no. Dwumadi yi mu no, adey[ as[m a mede bedi dwuma no fi adey[ as[m kuw (I) mu a ekita KB selaboro nhyehy[e s[nea Abakah (2005) ne Abakah (2015) kyer[ no. Edinnsiananmu a edi dwuma s[ ay[de nso a mede bedi dwuma no y[ edinnsiananmu biako kabea a [t] so abiesa no. Nhyehy[e yi ab]se mu no, yebenya selaboro ahorow anum nanso ne ka mu no, yebenya selaboro ahorow anan [nam f]n]]gyi nhyehy[e bi a [b[k] so nti.

Y[nhw[ nhw[so ahorow a edidi so yi na y[nhw[ s[nea w]n toonu nsonsonoe no te w] Akuapem ne Asante mu.

**(27) Edinnsiananmu, ]hy[ m]]fem ne edinnsiananmu a edi dwuma s[ ]y[tia**

	<b>Ab]se</b>	<b>Akuapem</b>	<b>Asante</b>
i.	mónt] # ]nú	mónt] nò	mónt] !nú
ii.	mónsí # ]nú	mónsí nò	mónsí !nú

- |      |             |          |           |
|------|-------------|----------|-----------|
| iii. | mójí # }nó  | mójí nò  | mójí 'nó  |
| iv.  | j[ńń] # }nó | j[ńń] nò | j[ńń] 'nó |
| v.   | w]mfa # }nó | w]mfa nò | w]mfa 'nó |

Nhw[so ahorow no kyer[ toonu nhyehy[e ahorow a [da adi w] ]hy[ kasamu a ay[de no y[ edinnsiananmu. S[nea madi kan akyer[ no, mede biako kabea edinnsiananmu a [t] so abiesa na egyinaa h] maa edinnsiananmu a edi dwuma s[ ay[de w] nhyehy[e no mu no.

S[ y[hw[ nhw[so (24) no mu a, yehu s[ edinnsiananmu a edi dwuma s[ ]y[fo no, ]hy[ m]]fem no ne adeg[ as[m a ekita KB selaboro no nyinaa soso S toonu w] n'ab]se mu. S[ y[hw[ edinnsiananmu a [no nso di dwuma s[ ]y[tia a mede dii dwuma no nso mu a, yehu s[, [no nso kita selaboro abien a ne toonu nhyehy[e y[ FS. Mmere a y[reka ne nyinaa abom w] ne ka mu no, yehu s[ edinnsiananmu a [redi dwuma s[ ]y[tia no so atew ama aka selaboro biako. Saa selaboro biako a aka yi toonu no sesa fi S b[y[ F w] Akuapem mu. Asante mu de, selaboro a aka no toonu no nsesa. {soa ne S toonu no ara s[nea [te w] ab]se no mu no. {wom s[ Asante de no k] so soa ne S toonu no ara de nanso saa S toonu no b[y[ famgyina S toonu (!S).

Besi ha no, y[abehu s[, nsonsonoe a [w] toonu nhyehy[e a [da adi w] kasa abien no mu w] ha no gyina edinnsiananmu no selaboro a aka a edi dwuma s[ ]y[tia no so.

Nea [y[e a edinnsiananmu no selaboro no so tewee na afei ne toonu no nso sesaa w] baabi no gyina nhyehy[e ahorow abien so. Saa nhyehy[e yi mu nea edi kan y[ f]n]]gyi nhyehy[e nkorabata a [y[ selaboro nhyehy[e a [no ne baworo yera. Nhyehy[e a [toa so no nso y[ toonu mmara a [y[ toonu tene.

Yehu s[ mmaworo adey[ as[m no ne edinnsiananmu a edi dwuma s[ ]y[tia no m]]feem ahye so no, mmaworo abien na ehyia w] h] w] ab]se no mu. Mede B<sub>1</sub> begyina h] ama baworo a etwa adey[ as[m no to no na mede B<sub>2</sub> nso agyina h] ama baworo a [hy[ edinsiananmu no ase. Abakah (2004) kyer[ s[, s[ mmaworo abien bi pue w] m]]fem ahye so a, mp[n pii no biako yera. }de kaa ho s[, s[ B<sub>2</sub> no y[ [+Fam] a, B<sub>1</sub> no na [taa yera. Nanso yehu s[ nhw[so no mu no, B<sub>2</sub> no y[ [-Fam]. Esiane saa nti yehu s[, B<sub>2</sub> no ayera.

{da adi w] ab]se no mu nso s[, B<sub>2</sub> a ayera no so F toonu. Esiane s[ nnyigyei bi yera nso a, egyaw ne toonu no ma [y[ agyanka nti F toonu no da so w] h] ara. Y[hw[ Akuapem nhw[so no mu a, yehu s[ edinnsiananmu a edi dwuma s[ ]y[tia no toonu no asesa afi S ab[y[ F w] ne ka mu. Yebetumi akyer[ s[, toonu mmara a [kanyann saa nsakrae yi y[ nifa fam F toonu tene. Eyi kyer[ s[, toonu agyanka a [y[ F no na atene ne F su no ak] nifa so asesa S a edi so no ma ab[y[ F toonu.

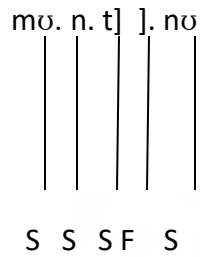
Asante mu nso, [da adi s[, edinnsiananmu a edi dwuma s[ ]y[tia no nso k] so ara kita ne S toonu no ara. Nanso yehu s[, baworo a edi n'anim a ayera no agyaw ne F toonu no h]. Esiane s[ saa F toonu a ay[ agyanka no ab[pue S abien mfimfini nti, [b[huan S a epue nifa so no peekye so ma ab[y[ famgyina S toonu (hw[ Dolphyne, 2006).

Besi ha no, [da adi s[, Akuapem toonu nhyehy[e no b[y[ SSSF [na Asante de no nso ab[y[ SSS'S. Eyi kyer[ s[ nsonsonoe w] sentase nhyehy[e yi toonu nhyey[e mu w] Akuapem ne Asante mu. Y[hw[ s[nea eyi da adi w] }tos[gyem[ntal ti]ri dua no so.

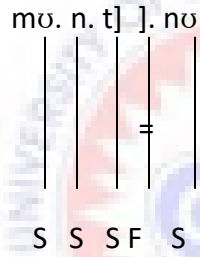
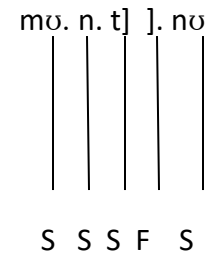
(28) Edinnsiananmu, ]hy[ m]]fem ne edinnsiananmu a edi dwuma s[ ]y[tia w]  
 }tos[gyem[ntal dua so

**Akuapem**

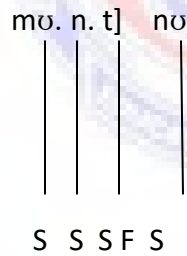
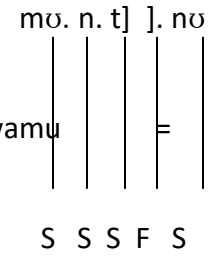
**Asante**



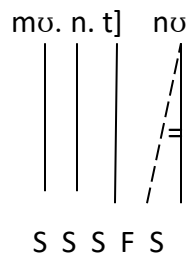
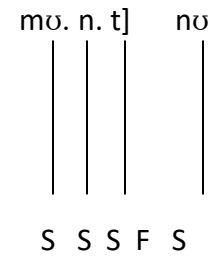
ab]se



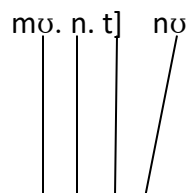
baworo yera ne F toonu ntwamu



F toonu agyankay[



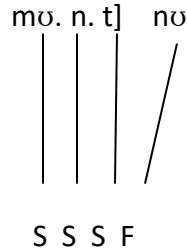
F toonu tene ne S toonu ntwam (Ak.) \_\_\_\_\_



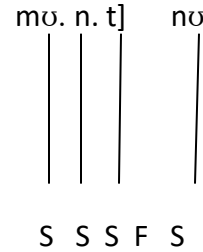


= F toonu mmae (Ak.) \_\_\_\_\_

S S S F



ne ka mu



[m̩<sup>w</sup>ónt̩<sup>w</sup>] n̩<sup>w</sup>ò

[m̩<sup>w</sup>ónt̩<sup>w</sup>] n̩<sup>w</sup>ó

{wom s[ edinnsiananmu a edi dwuma s[ ]y[tia a mede dii dwuma w] nhw[so yi mu no y[ baakofo kabea a [t] so abiesa de, nanso edinnsiananmu a aka no nso da nsonsonoe a [te saa adi. S[ y[hw[ edinnsiananmu a aka no nso a, yehu s[ Asante de no k] so ara soa S toonu no ara nanso Akuapem de no de, [sesa k]fa F toonu. Y[nw[ nhw[so a edi so yi.

**(29) Edinnsiananmu nkae no, ]hy[ m]]fem ne edinnsiananmu a [y[ ]y[tia**

	<b>Ab]se</b>	<b>Akuapem</b>	<b>Asante</b>
vi.	m̩ónt̩] # j]n̩	m̩ónt̩] j]n̩	m̩ónt̩] j]n̩
vii.	m̩óns̩] # w]n̩	m̩óns̩] w]n̩	m̩óns̩] w]n̩
viii.	m̩ój̩j̩] # mí	m̩ój̩j̩] mì	m̩ój̩j̩] mí
ix.	j]n̩n̩] # mó	j]n̩n̩] mò	j]n̩n̩] mó

**5.5 Edinnsianmu ne adey[ as[m a ekita selaboro abien anaa nea [boro saa a [w] ay[asie kabea mu ne edinnsianmu a [y[ ]y[tia.**

Sentase nhyehy[e a ekita edinnsianmu ne adey[ as[m a ekita selaboro abien anaa nea [boro saa a [w] ay[asie kabea mu ne edinnsianmu a [y[ ]y[tia nso toonu nhyehy[e ny[ p[ w] Akuapem ne Asante Twi mu.

Edinnsianmu a mede begyina h[ ]adi dwuma w[ ]fa yi ase no y[ biakofo edinnsianmu a edi kan no esiane s[, toonu nsonsonoe biara mma edinnsianmu a edi dwuma s[ ]y[fo no ne adey[ m]]fem no ahye so w[ ]kasa abien no mu.

Sentase nhyehy[e yi mu no, yebenya edinnsianmu a edi dwuma s[ ]y[fo, ay[asie m]]fem, adey[ as[m a ekita selaboro abien anaa nea [boro saa ne edinnsianmu a edi dwuma s[ ]y[tia.

Y[nhw[ faako a toonu nsonsonoe no ba w] sentase nhyehy[e a [te saa yi mu w] Asante ne Akuapem mu w] nhw[so a edi h] no mu.

**(30) Edinnsianmu ne adey[ as[m a ekita selaboro abien anaa nea [boro saa a [w] ay[asie kabea mu ne edinnsianmu a [y[ ]y[tia ho nhw[so**

	<b>Ab]se</b>	<b>Akuapem</b>	<b>Asante</b>
i.	mí # àsóma # ]nó	màsómá nò	màsómá 'nó
ii.	mí # àsópá # ]nó	màsópá nò	màsópá 'nó
iii.	mí # àkúá # ]nó	màkúá nò	màkúá 'nó

- |     |                    |               |             |
|-----|--------------------|---------------|-------------|
| iv. | mí # àsámíná # w]ń | màsámíná w]n` | màsámán w]ń |
| v.  | mí # àpámó # mó    | màpámó mò     | màpámó mó   |
| vi. | mí # æsísí # wó    | mæ̀sísí wò    | mæ̀sísí wó  |

Nhw[so a [w] (27) no mu ma yehu s[, nsonsonoe da toonu nhyehy[e a [da adi w] sentase nhyehy[e no mu w] kasa abien no mu.

S[ y[hw[ nhw[so no (i-iii) no mu a, yehu w] ab]se[ no mu s[, edinnsiananmu a edi dwuma s[ ]y[fo no so S toonu, adey[ as[m a [w] ay[asie kabea no mu no nso so FSS toonu [na edinnsiananmu a edi dwuma s[ ]y[tia no nso toonu nhyehy[e y[ FS. Bere a ns[mfua yinom dii ahyiam no, yehu s[ toonu nsakrae binom ne f]n]]gyi nhyehy[e bi ak] so w] kasa abien no mu ama nsonsonoe ab[da w]n toonu nhyehy[e mu.

Y[hw[ a, toonu nsonsonoe no gyina edinnsiananmu a edi dwuma s[ ]y[tia no so p]tee. Y[hw[ Akuapem kasa no mu a, yehu s[, edinnsiananmu no selaboro a etwa to a aka w] awtputu no mu a [y[ S no asesa ab[y[ F. Asante mu nso, yehu s[, edinnsiananmu a edi dwuma s[ ]y[tia no selaboro a aka anaa nea etwa to no a na [so S toonu no toonu no ansesa na mmom ab[y[ famgyina S toonu.

Kasa abien no mu no, yehu s[, esiane s[ edinnsiananmu a edi dwuma s[ ]y[fo no ne adey[ as[m a [w] ay[asie kabea no mu no hyiae no, esiane s[ baworo a efi adey[ as[m no ase no y[ [+Fam] no nti, [-Fam] a [w] edinnsiananmu akyi no na [yerae (hw[ Abakah, 2004). {no akyi no nso, adey[ as[m no ne edinnsiananmu a edi dwuma s[ ]y[tia no m]]fem ]hye no so

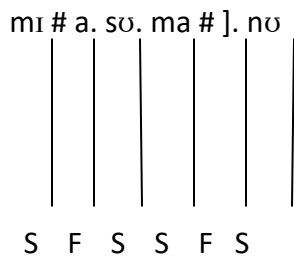
nso, B<sub>2</sub> a egyina h] ma baworo a [hy[ edinnsiananmu no ayera nanso ne toonu no de, [w] h].

Akuapem mu no, yehu s[, F toonu agyanka no atene ak] nifa so asesa S toonu no ma ab[y[ F. Asante mu nso, yehu s[, esiane s[ SFS toonu nhyehy[e w] adey[ as[m no awiei ne edinnsinanamu a edi dwuma s[ ]y[tia no mu nti, F no b[ma S a etwa to no peekye no S ahuan. Esiane s[ F no nnyigyei no ayera na mmom ne toonu no ay[ agyanka nti, ne nsunsuanso no benya nk[nt[nso w] S a etwa to no so ma ab[y[ famgyina. {no nti na S a etwa to w] Asante mu no ay[ famgyina S toonu no. Y[nhw[ s[nea eyi da adi w] ]tos[gyem[ntal ti]ri nsaw]so nsesane dua no so.

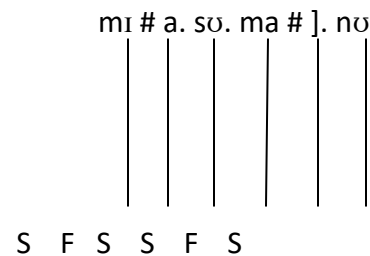


**(31) Edinnnsinanmu ne adey[ as[m a ekita selaboro abien anaa nea [boro saa a [w] ay[asie kabea mu ne edinnsiananmu a [y[ ]y[tia w] }tos[gyem[ntal dua so**

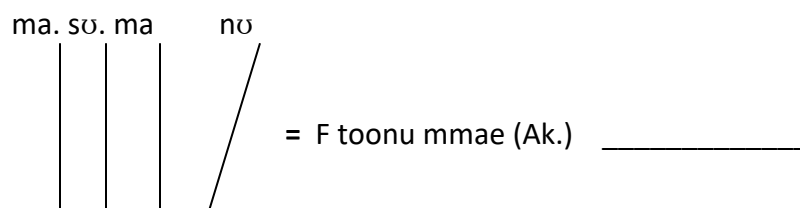
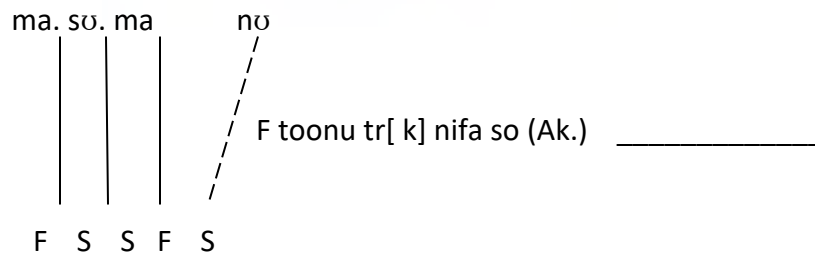
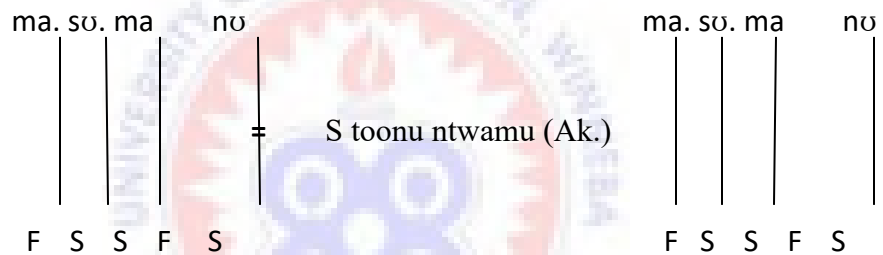
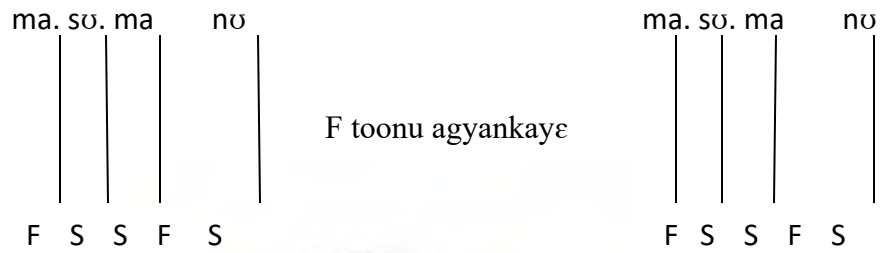
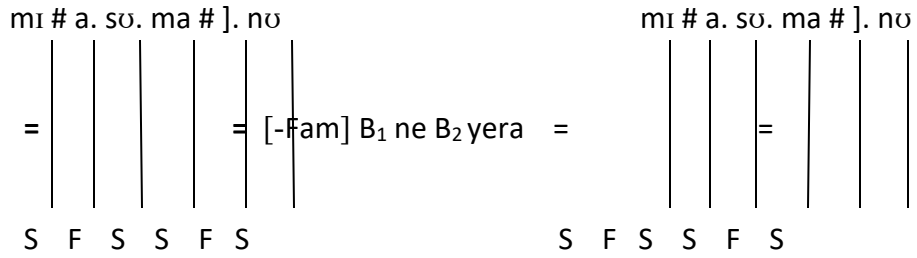
**Akuapem**

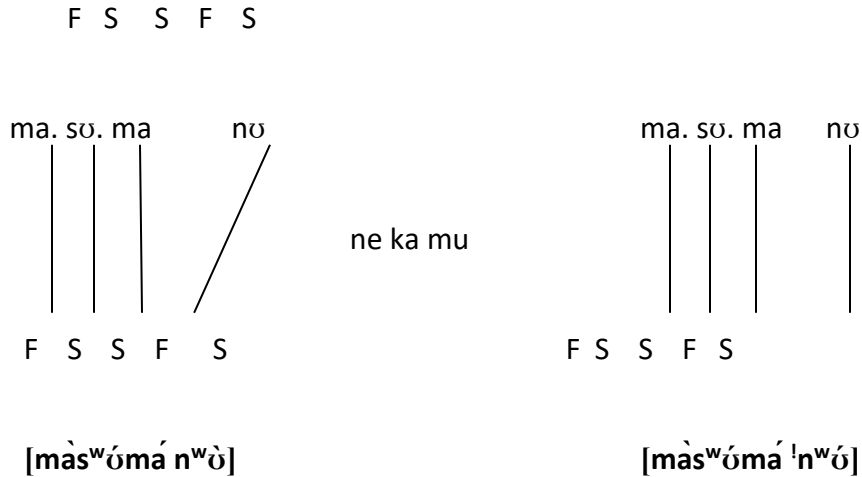


**Asante**

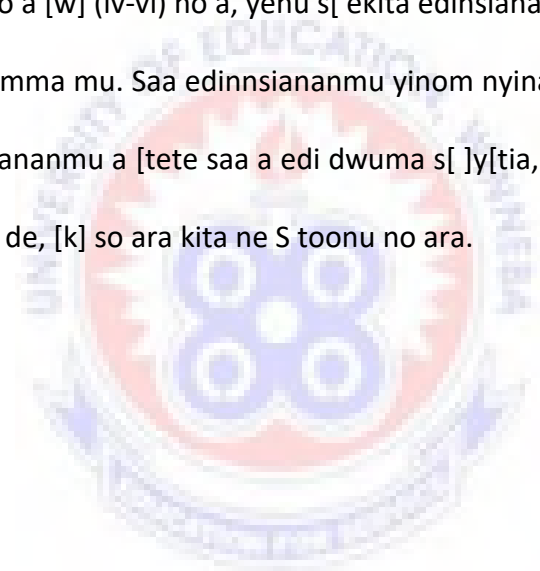


ab]se





Bio, s[ y[hw[ nhw[so a [w] (iv-vi) no a, yehu s[ ekita edinsiananmu a edi dwuma s[ ]y[tia a [no de, ]yera biara mma mu. Saa edinnsiananmu yinom nyinaa kitakita S toonu. Yehu no s[, s[ yenza edinnsiananmu a [tete saa a edi dwuma s[ ]y[tia, Akuapem mu no, [sesa b[y[ F nanso Asante mu de, [k] so ara kita ne S toonu no ara.



### 5.6 Edinnsiananmu ne ngoo adey[ as[m a [w] ay[asie kabea mu ne edin akyi sibe

S[ yenza ]kasamu bi a ne nhyehy[e y[ edinnsiananmu ne ngoo adey[ as[m a [w] ay[asie kabea mu ne edin akyi sibe a, [y[ a nsonsonoe w] ne toonu nhyehy[e mu w] Asante ne Akuapem Twi mu.

Sentase nhyehy[e yi ase no, mp[n pii no selaboro a ne toonu no sesa ma [de nsonsonoe ba kasa abien no toonu nhyehy[e mu no y[ selaboro a [t] so abiesa no. Saa selaboro a [t] so abiesa no y[ adey[ as[nnua no. Nhyehy[e yi mu no, edinnsiananmu a edi dwuma s[ ]y[fo no nyinaa soso S toonu w] n'ab]se mu. Ay[asie ne ngoo m]]fem biara nso soa F toonu. Adey[ as[nhini a ekita KB biara nso soa S toonu [na edin akyi sibe a mede dii dwuma no nso soa FS toonu w] n'ab]se mu nanso [b[y[ selaboro biako w] ne ka mu w] mmere a etwa ]kasamu no to.

S[ wode edinnsiananmu biakofo kabea a edi kan ne nea [t] so abiesa a esiane ]yera nhyehy[e binom nti [nsoa toonu w] mmere a y[akeka m]]fem ahorow no abom ma ab[y[ ]kasamu no to nky[n a, nea [soa toonu te s[ dodow a edi kan ne nea [t] so abiesa no sesa fi S b[y[ F w] kasa abien no mu. Dodow ne biakofo a [t] so abien no de, w]n toonu nsesa. Na mmom adey[ as[m no de, [k] so soa ne S toonu no ara w] Akuapem mu nanso Asante mu de, [sesa b[soa F.

Y[nhw[ s[nea [te w] nhw[so a edi h] no mu:

**(32) Edinnsiananmu ne ngoo adey[ as[m a [w] ay[asie kabea mu ne edin akyi sibe a ho nhw[so**

**Ab]se**

**Akuapem**

**Asante**

- |      |                  |             |            |
|------|------------------|-------------|------------|
| i.   | mí # àṅkǎ # [hǎ] | màṅkǎ 'hǎ]  | màṅkǎ] hǎ] |
| ii.  | mó # àènsí # [sú | móàènsí 'sú | móàènsí sù |
| iii. | y[ń # àmmǎ # [hó | y[àmmǎ 'hó  | y[àmmǎ] hó |
| iv.  | w]ń# àṅfá # [sú  | w]àṅfá 'sú  | w]àṅfá] sù |

Y[hw[ nhw[so] a [w] soro h] no a, [da adi s[, nsonsonoe w] kasa abien no toonu nhyehy[e a w]de ka sentase nhyehy[e yi mu. {da adi s[, edinnsiananmu a edi dwuma s[ ]y[fo no, ay[asie m]]fem no ne ngoo m]]fem no toonu a [soso w]n no nyinaa y[ p[ w] kasa abien no mu.

Baabi a nsonsonoe no gyinaa p]tee no y[ adeg[ as[m no so. Bio nso, nsonsonoe kakra nso da toonu a [so edin akyi sibeá no so [mfa ho s[ ne nyinaa soso S toonu no. S[nea madi kan ab] so no, adeg[ as[m no so S toonu w] n'ab]se mu. Akuapem mu no, [k] so ara soa S toonu no ara na mmom Asante mu de, [sesa b[soa F toonu. Edin akyi sibeá no nso, Akuapem mu no, ne S toonu no y[ famgyina nanso Asante mu de, [y[ S kann. Dwumadi ahorow abien a biako y[ f]n]]gyi nhyehy[e na biako nso y[ toonu mmara na [de nsakrae yinom aba.

Y[hw[ edin akyi sibeá no ab]se no a, ekita FS toonu nhyehy[e nanso bere a [ne ns[m a aka a baworo twa to no abehyia no, ne baworo a edi kan no yera. {no ne f]n]]gyi nhyehy[e a ak] so no.

Saa baworo a ayera no so F toonu nanso [mfa ho s[ baworo no ayera no, ne toonu no de [nyera. Y[hw[ Asante nhw[so no mu a, yehu s[ adeg[ a [b[n edin akyi sibeá a ekita F agyanka toonu no S toonu no asesa ab[y[ F toonu. Yebetumi akyer[ mu s[, s[nti a nsakrae



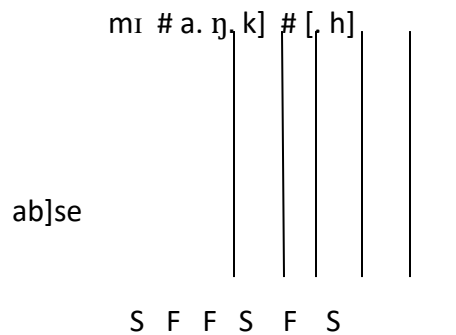
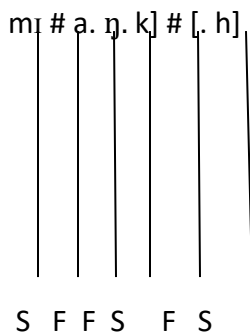
yi aba no gyina toonu tene mmara a [ka toonu sandi mmara ahorow no ho no bi na anya nk]so w] h]. Yebetumi akyer[ mu s[, F toonu a ay[ agyanka no na atene ne F toonu su ak] b[nkum so ak]sesa S toonu a anka [so adey[ as[m no ma ab[fa F toonu.

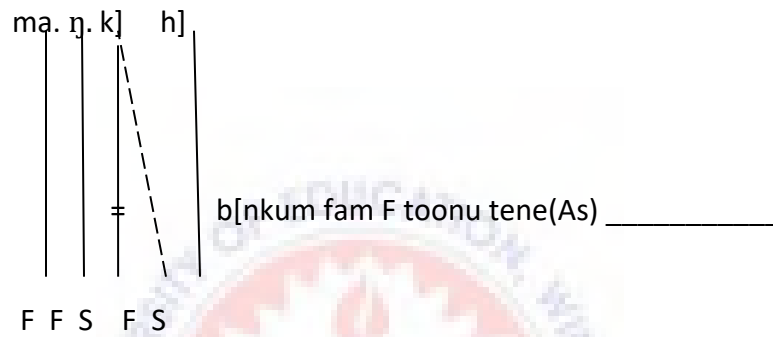
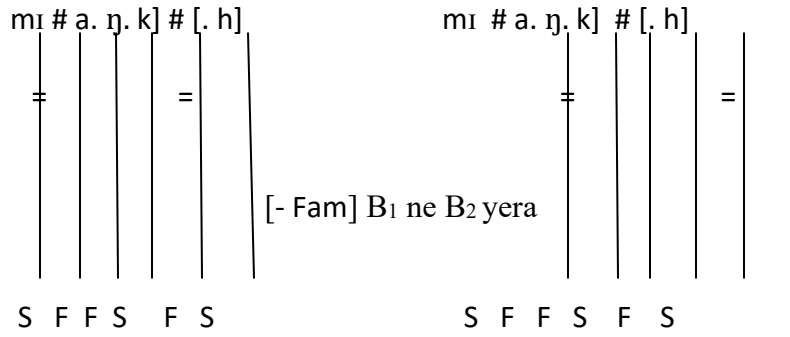
Akuapem mu nso, [da adi s[, adey[ as[m no toonu nsesa de, na mmom S toonu a [so edin akyi sibe a no selaboro a aka no ab[y[ famgyina a [kyer[ s[, ne S peekye no so ahuan. S[nea Dolphyne (2006) kyer[ no, s[ yenya SFS toonu nhyehy[e bi a, S a etwa to no b[y[ famgyina [mfa ho s[ F toonu no selaboro no w] h] anaa [y[ agyanka. S[ y[de toto Akuapem de yi ho a, yehu no s[, esiane s[ adey[ as[m no so S toonu na baworo a ayera no ama y[n F toonu agyanka na edin akyi sibe a no selaboro a aka no nso y[ S nti, yebenya SFS toonu nhyehy[e. Ne saa nti no, Akuapem mu no, F a ay[ agyanka no peekye no huan S a etwa to no S peekye no so ma [b[y[ famgyina S toonu. Eyi y[ antopr[kop[ famgyina no bi.Y[nhw[ s[nea eyi da adi w] ]tos[gyem[ntal ti]ri dua no so.

**(33) Edinnsiananmu ne ngoo adey[ as[m a [w] ay[asie kabea mu ne edin akyi sibe a w] }tos[gyem[ntal dua so**

Asante

Akuapem





[màŋkʷ] hʷ]

[màŋkʷ] !hʷ]

## 5.7 }fa yi muab]

}fa yi mu no y[ahu f]n]l]gyi nhyehy[e ne toonu mmara ahoro a toonu ahoro binom a [soso selaboro ahoro bi w] sentase nhyehy[e binom mu fa so ansa na y[anya w]n awtputu w] Asante ne Akuapem mu w] ]tos[gyem[ntal ti]ri mu. Eyi ma yehuu s[nea nhyehy[e ahoro yi maa nsonsonoe baa toonu nhyehy[e ahoro no mu w] kasa abien no mu. }fa yi gyinaa ]tos[gyem[ntal ti]ri nsaw]so nsensane ahoro so kyer[[ faako a toonu tene, toonu polaraeseehyen / abirab] ne f]n]l]gyi bi te s[ baworo yera fa so ba ma yena nsonsonoe no. }fa yi ama y[ahu sentase nhyehy[e binom a nsonsonoe da w]n toonu nhyehy[e mu w] Akuapem ne Asante Twi mu.

}fa yi mu no, ada no adi s[, nsonsonoe a [da edinnsiananmu ne SF edin as[m no gyina selaboro a edi kan ne nea [t] so abien no so Akuapem de no y[ FS [na Asante y[ SF. F]n]l]gyi mmara a [y[ adwuma w] Akuapem de no mu no y[ toonu polaraeseehyen [na Asante mu nso toonu tene.

Bio, edinnsiananmu ne SF edin as[m nso, nsonsonoe no gyina selaboro a edi kan no nko ara so. Akuapem selaboro a edi kan no b[y[ S toonu [nam b[nkum fan toonu tene so [na Asante de no b[y[ F [nam toonu polareeseehyen so.

Edinnsiananmu ne SF edin as[m nso, nsonsonoe no gyina selaboro a edi kan no so. Akuapem selaboro a edi kan no y[ F [na Asante de no y[ S.

Edinsiananmu ne ]hy[ adey[ ne KB edinsiananmu nso, nsonsonoe no gyina selaboro a etwa to no so. Akuapem benya F [na Asante nso nya <sup>1</sup>S. Saa ara nso na nea adey[ as[m no w] ay[asie kabea mu te. Edinnsiananmu ne ngoo adey[ ne KB edin akyi sibe a nso nsonsonoe no gyina selaboro a [t] so anan no so.

## **}FA A {T} SO NSIA**

### **T}FAB}, AWIEI NE ADWENKYER{**

#### **6.0 Nnianim**

}fa a etwa to yi b] dwuma biara a medii w] Nhwehw[mu dwuma yi mu ne nea epuee anaa nea efii mu bae, ]kwan a [faa so puei, m'adwenkyer[ ne nhumu no nyinaa t]fa. }fa yi b] nea [daa adi w] ]fa biara mu no t]fa [na afei nso faako a dwumadi no k]pem nso mab] no t]fa w] ]fa yi ara mu.

{nam s[ dwumadi yi w] faako a [k]pem a egyina ne botae so nti, nhwehw[mu binom w] h] a aka a [y[ eyi s[so. Ne saa nti ]fa yi mu no, m[kyer[ adwen afa nhwehw[mu binom a [y[ eyi s[so a nhwehw[mufo] binom nso betumi ay[.

#### **6.1 Nea efii dwumadi no mu bae**

}fa 4.1 ne 4.2 agyina akusteke nhwehw[mu kwan so adi adanse akyer[ y[n sentase nhyehy[e binom a w]n toonu nhyehy[e y[ p[ ne w]n a nsonsonoe da w]n toonu nhyehy[e mu w] Asante Twi ne Akuapem Twi mu.

}fa 4.1 no kyer[ sentase nhyehy[e binom a w]n toonu nhyehy[e y[ p[ w] kasa abien no mu. Edin kasasin a ne nhyehy[e y[ anim nkyer[mu “Saa” ne edin ne oyikyer[.

Edin kasasin a [y[ ]dede nhyehy[e a ekita edin ne abusuab]din a ekita Soro-Soro toonu nhyehy[e.

}kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ ]dede “w]” ne adey[ akyi din.

}kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ beae “w]” ne adey[ akyi din a edi dwuma s[ beae kyer[fo.

}kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ tebea “hy[” ne edin akyi sibe a ekita selaboro baako.

}kasamu tiawa a ekita edin as[m a edi dwuma s[ ]y[fo ne adey[ as[m a [w] ay[asie kabea mu. Saa sentase nhyehy[e yinom nyinaa toonu nhyehy[e y[ p[ w] kasa abien no mu.

}fa 4.2 no nso kyer[ sentase nhyehy[e binom a nsonsonoe da w]n toonu nhyehy[e mu w] Akuapem ne Asante mu. }dede edin kasasin a ekita edinnsiananmu ne edin as[m a efi edin kuw (I) mu a ekita FS toonu.

}dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ SF. }dede edin kasasin a ekita edinnsiananmu ne edin a ne toonu nhyehy[e y[ SF.

}kasamu tiawa a ekita edin anaa edinnsiananmu a edi dwuma s[ ]y[fo ne adey[ a [kyer[ beae “w]” ne adey[ akyi din a edi dwuma s[ beae kyer[fo.

}hy[ kasamu a ekita edinnsiananmu, ]hy[ m]]fem ne edinnsiananmu a edi dwuma s[ ]y[tia.

Edinnsiananmu ne adey[ as[m a ekita selaboro abien anaa nea [boro saa a [w] ay[asie kabea mu ne edinnsiananmu a [y[ ]y[tia.

Edinnsiananmu ne ngoo adey[ as[m a [w] ay[asie kabea mu ne edin akyi sibeaa. Weinom nso y[ sentase nhyehy[e ahorow binom a nsonsonoe da w]n toonu nhyehy[e mu.

Saa sentase nhyehy[e ahorow a mab] so yi nyinaa b[boa ama y[ahu s[nea w]n toonu nhyehy[e te w] kasa abien no mu. Wei b[boa ama y[ahunu mmeae a kasa abien no k] b[nkoro mu w] toonu nhyehy[e mu ne baabi a nsonsonoe da w]n ntam.

## **6.2 Nhwewh[mu no nyinaa muab]**

}fa a edi kan w] nhwewh[mu yi mu no kyer[[ nhwewh[mu yi ani so kyer[[ nea [b[da adi w] nhwewh[mu no nyinaa mu. }fa yi san kyer[[ ]haw a [kanyann nhwewh[mu no, nhwewh[mu no botae, [ho ns[mmisa ahorow, mfaso a nhwewh[mu yi de b[br[ akenkanfo. }fa koro yi ara mu no, mebuee ti]ri anaa adwenemus[m a dwumadi yi gyina so no ani so kakra.

Nhwewh[mu ahorow pii na ak] so afa Akan toonu ahorow ho a ebi ne Abakah (2005) Dolphyne (2006), Abakah ne nkae (2010), Abakah (2015) ne nea [keka ho. Saa nhwewh[mu ahorow yi nyinaa bob]] s[nea [t] da bi a nsonsonoe da toonu nhyehy[e mu adi w] Akan kasa nkorabata ahorow no mu tiawa na afei nso na w]n nhwewh[mu nhy[ da nnyina akusteke adansedi so. Ne saa nti na nhwewh[mu yi ho ab[hia s[ y[de Asante ne Akuapem toonu nhyehy[e binom toto ho w] akusteke mp[ns[mp[ns[mu kwan so.

}fa a [t] so abien no mu no, mehw[[ animdefo binom adwenkyer[ a w]ada no adi afa ns[m nkor[kor[ binom ho a [ho behia w] Nhwehw[mu dwuma yi mu no adi. Saa ns[m yi binom ne selaboro ne Akan selaboro nhyehy[e, toonu ne toonu kasa a [kyer[[ toonu kuw ahorow a y[w] ne Akan toonu ahorow a y[de di dwuma. Bio, ]fa no san hw[[ nea animdefo binom aka afa famk] ne famgyina na egyinaa so kyer[[ s[ nsonsonoe da ns[m abien no ntam san kyer[[ s[nea famgyina ne famk] da adi w] Akan kasa no mu. }fa no san hw[[ toonu dwumadi ahorow no ho ns[m ne titriw s[nea edi dwuma w] adey[ kwan so. {no akyi no, ]fa yi san hw[[ toonu sandi mmara bi te s[ toonu tene. {kyer[[ fam toonu tene a [k] nifa fam ne soro toonu tene a [k] b[nkum fam w] Akan mu. Bio, [san hw[[ anto toonu sandi mmara bi te s[ toonu ananmuhy[, toonu disimileehyen ne toonu polaraeseehyen. Nea etwa to no, [kyer[[ ti]ri a dwumadi yi gyina so a [no ne }tos[gyem[ntal ti]ri no ani so.

}fa a [t] so abiesa no nso kyer[[ akwan ahorow a mefaa so y[[ nhwehw[mu no. {kyer[[ s[nea nhwehw[mu no su te. {daa no adi s[, nhwehw[mu no y[ nea ekita nkyer[kyer[mu su no bi na mmom [ny[ nea egyina akontaabu so. }fa yi kyer[[ s[nea metasee ns[mmoano a megyinaa so y[[ mp[ns[mp[ns[mu no. {san hw[[ s[nea mepaw nnipa ahorow a mede w]n dii dwuma no, w]n dodow, faako a wofi ne w]n mfe kyer[p[n. {san kyer[[ akade a ahorow a [boa maa dwumadi yi wiee p[y[. }fa yi san kyer[[ k]mputa so dwumadi PRAAT a mede y[[ akusteke mp[ns[mp[ns[mu no ani so kakra. Bio nso, ]fa yi mu ara no, mekyer[[ ]kwan a mefaa so sr[[ akasafo a mede w]n dii dwuma no h] kwan ansa na w]gye pene s[ memfa w]n nni dwuma no.

}fa a [to so anan no mu na dwumadi no mp]mp]nso ne emu mp[ns[mp[ns[mu no fa k[se no ara puei. }fa yi hw[[ akusteke mp[ns[mp[ns[mu a megyinaa PRAAT so y[e no ne nea efii mu bae. Megyinaa akusteke mp[ns[mp[ns[mu a megyinaa PRAAT ne Microsoft Excel so y[e no kyer[[ sentase nhyehy[e ahorow binom a w]n toonu nhyehy[e y[ p[ ne nea nsonsonoe da w]n toonu nhyehy[e ahorow no mu w] Akuapem Twi ne Asante Twi mu.

}fa a [t] so anum no nso, y[ dwumadi no mp[ns[mp[ns[mu no fa no bi. }fa yi mu no, mede ti]ri a nhwehw[mu yi fa bi gyina so a [y[ ]tos[gyem[ntal ti]ri no p[ns[mp[ns[m sentase nhyehy[e binom a nsonsonoe da w]n toonu nhyehy[e mu a mada no adi w] }fa a [t] so anan no mu bi adi. Nsaw]so nsensane a [w] ti]ri no mu no daa no adi s[, sentase nhyehy[e no mu binom w] h] a, toonu tene na [da adi wom na ebi nso y[ toonu polaraeseehyen a ne nyinaa ma yehu kwan a [fa so de nsonsonoe b[to kasa abien no mu.

Ne nyinaa nka mfua no, nhwehw[mu no fa a [t] so asia yi b] nea [daa adi w] dwumadi no mu nyinaa t]fa. {de dwumadi no nhyehy[e, adwenkyer[ ne nea efi dwumadi no mu bae no nyinaa to gua w] muab] kwan so.

### 6.3 Awiei

S[nea madi kan akyer[ mu no, nhwehw[mu ahorow binom abob] toonu ho nsonsonoe w] Akuapem ne Asante so de nanso eyi y[ dwuma p]tee a [fa ho na afei nso [nam akusteke so na [y[[ mp[ns[mp[ns[mu no. Eyi ma dwumadi yi da nso fi nea aka no ho. Mesan si so dua s[, y[w] sentase nhyehy[e ahorow pii a w]n toonu nhyehy[e y[ p[ ne nea [ny[ p[ w]



Akuapem ne Asante mu nanso kakra a ada adi w] dwumadi yi mu no na mepaw de dii dwuma. Migye di s[ s[ y[toa so y[ nhwehw[mu ahorow w] Akan kasa nkorabata nkumaa ne atitiriw no mu a, [b[boa ama y[anya nimde[ a emu d] a [fa kasa ahorow no ho.

#### 6.4 Adwenkyer[

Nhwehw[mu yi ahw[ sentase nhyehy[e binom a w]n toonu nhyehy[e y[ p[ w] Akuapem ne Asante Twi mu. S[nea yenim no Akan w] kasa nkorabata ahorow pii nanso esiane me dwumadi yi botae nti Akuapem ne Asante Twi nko ara na mede nhwehw[mu no gyinaa so. Ne saa nti, [ho behia s[ animdefo binom nso y[ nhwehw[mu binom te s[ eyi ara hw[ s[nea toonu de nsonsonoe ba Akan kasa nkorabata ahorow a aka no mu binom mu w] akusteke kwan so. Eyi b[boa ama y[anya nimde[ pii afa s[nea toonu da ne ho adi w] Akan kasa nkorabata ahorow no mu.

Bio, lengwesteke nkorabata p]tee a mede dwumadi yi gyinaa so y[[ ntotoho no ne sentase. Eyi nti, ebinom nso betumi ay[ nhwehw[mu ahorow afa s[nea toonu da ne ho adi w] m]f]l]gye, s[mantese ne lengwesteke nkorabata ahorow a aka no mu bi mu ntotoho w] Akan kasa nkorabata no mu bi ntam.

**MMOA NHOMA**

Abakah, E.N. (2000). A closer look at downstep in Akan. *Afrika und Übersee* 83, 1–23.

As cited in Kügler (2017).

Abakah, E.N. (2004). Elision in Fante. *Africa & Asia* 4, 181-213.

Abakah, E.N.( 2005a). Tone in Akan nominals. In M. E. Kropp Dakubu & E. K. Osam (eds.), *Studies in the Languages of the Volta Basin* 3, pp.193–218. Legon: Linguistics Department, University of Ghana. As cited in Kügler (2017).

Abakah, E.N. (2005b). Tone Rules in Akan. *Journal of West African Languages* 32(2), 109-134.

Abakah, E.N. & Koranteng, L. (2007). The Interaction of Tone, Syntax and Semantics in Akan. In M. E. Kropp Dakubu, G. Akanlig-Pare, E. K. Osam, K. K. Saah (eds.),

*Studies in the Languages of the Volta Basin* 4, pp. 63 –86. Legon: Linguistics Department, University of Ghana. As cited in Kügler (2017).

Abakah, E.N. (2012). Some Assimilatory Processes In Akan. *Journal of West African Languages* 39(2), 47-82.

Abakah, E.N. (2015). On Tone and Morphophonology of the Akan Reduplication Construction. *Journal of Universal Language* 16 (1), 1-4.

Abakah, E.N. (2016). Hypotheses on the Diachronic Development of the Akan Language Group. *Journal of Universal Languages* 17(1), 1-51.

Abakah, E.N. , Amissah, C. & Ofori, K. (2010). Tone terracing in Akan. *Journal of African Cultures and Languages* 1(1), 1-20.

Adomako, K. (2008). *Vowel epenthesis and consonant deletion in loanwords: A study of Akan*. Master's thesis, University of Tromso, Tromso, Norway.

Agyekum, K. (2006). The Sociolinguistic of Akan Personal Names. *Nordic Journal of African Studies* 15(2), 206-235.

Agyekum, N. O. (2017). *Akanfoɔ nkuro din no bi mu mp[ns[mp[ns[mu w] m]f]-f]n]]gyi kwan so*. Mphil Thesis, University of Education, Winneba.

Akoto, E. (2016). *Akuapem Fɔnɔlɔgyi Nhyehyee mu bi*. MPhil thesis, University of Education, Winneba.

Ashby, M. & Maidment, J. (2005). *Introducing phonetic science*. Cambridge: Cambridge University Press.

- Boadi, L. A. (2010). *The Akan noun phrase: Its structure and Meaning*. Accra: Black Mask Ltd.
- Boersma, P. (2001). PRAAT, a system for doing phonetics by computer. *Glott International* 5(9 & 10), 341-347.
- Caesar, R.O. & Adi, D. D. (2014). *Dangme fonetiks ke fɔnɔlɔji (An introduction to Phonetics and Phonology of Dangme)*. Kumasi: Alpha & Omega Publications.
- Cahill, M. (1985). *An autosegmental analysis of Akan nasality and tone*. Arlington: University of Texas, MA Thesis. As cited in Kügler (2017).
- Chen, M. Y. (2000). *Tone sandhi: Patterns across Chinese dialects*. Cambridge: Cambridge University Press.
- Chomsky, N. & Halle, M. (1968). *The Sound Pattern of English*. New York: Harper and Row.
- Christaller, J. G. (1875). *A Grammar of the Asante and Fante Language called Tshi Chwee, Twi Based on the Akuapem Dialect With Reference to the Other (Akan and Fante) Dialects*. Basel: Basel Evang. Missionary Society
- Clark, J. & Yallop, C. (1995). *An introduction to phonetics and phonology* (2<sup>nd</sup> Edition). Oxford: Blackwell Publishers.
- Clements, G.N. (1977). The autosegmental treatment of vowel harmony. In Wolfgang U. Dressler & Oskar E. Pfeiffer (eds), *Phonologica* 1976, pp.111-119. Innsbruck: Innsbrucker Beiträge zur Sprachwissenschaft.
- Clements, G. N. (1981). Akan vowel harmony: A non-linear analysis. *Harvard Studies in Phonology* 2, 108-177.

Clements, G. N. (1985). Akan vowel harmony: a nonlinear analysis. In Goyvaerts, D. (ed) *African Linguistics: essays in memory of M. W. K. Semikenke*, pp. 55-98  
Amsterdam: John Benjamins.

Clements, G.N. & Humes, E. (1995). The Internal Organization of Speech Sounds. In John A. Goldsmith (ed.), *The Handbook of Phonological Theory*, pp. 245-306.  
Oxford: Blackwell Publishers.

Crystal, D. (1997) *A Dictionary of Linguistics and Phonetics*. Oxford: Blackwell

Dolphyne, F. A. (2006). *The Akan (Twi-Fante) Language: Its Sounds System and Tonal Structure*. Woeli Publishing Company Limited.

Dolphyne, F. A. & Kropp Dakubu, M. E. (1988). The Volta-Comoe Languages. In Mary E. Kropp Dakubu (ed.), *The Languages of Ghana*, pp.50-90. London: Kegan Paul. As cited in Kügler (2017).

Gandour, J. T. (1978). The perception of tone. In V.A. Fromkin. (ed.), *Tone: A linguistic survey*, pp. 41–76. New York: Academic Press.

Genzel, S. (2013). *Lexical and post-lexical tones in Akan*. PhD Dissertation, University of Potsdam.

Ghana Statistical Service (2012). *2010 Population and Housing Census, Summary Reports of final Results*. Accra.

Goldsmith, J. A. (1976). *Autosegmental Phonology*. Doctoral Dissertation, MIT. New York: Garland Press.

- Goldsmith, J. A. (1974). *An Autosegmental typology of tone: And how Japanese fits in*. A paper presented to Massachusetts Institute of Technology.
- Greenberg, J.H. (1949) Studies in African Linguistic Classification: I. The Niger-Congo Family. *Southwestern Journal of Anthropology* 5(2), 79-100.
- Gussenhoven, C. (2004). *The phonology of tone and intonation*. Cambridge: Cambridge University Press.
- Hayes, B. (2009). *Introductory Phonology*. Oxford: Blackwell Publishing.
- Hoberman , R. (1988). Emphasis harmony in modern Aramaic. *Language* 64, 1-26.
- Hyman, L. M. (1975). *Phonology: Theory and analysis*. New York: Holt, Rhinehart, & Winston. As cited in Abakah (2005).
- Hyman, L.M. (2009). The representation of tone. Submitted to M. Oostendorp, C. Ewen, E. Hume, and K. Rice (eds.). *The Blackwell Companion to Phonology*, pp. 108-132. UC Berkeley Phonology Lab Annual Report.
- Hyman L. M. (2011). Tone: Is it different? In J. Goldsmith, J. Riggle & A.C.L. Yu (eds.) *The handbook of phonological theory* (2<sup>nd</sup>. Ed.) pp.197-239. Oxford: Blackwell Publication Ltd.
- Katamba, F. (1989). *An Introduction to Phonology*. New York: Addison Wesley Longman Publishing.
- Kager, R. (1999). *Optimality Theory*. Cambridge: Cambridge University Press.

- Khalifa, M.F. (2018). Cairene Colloquial Arabic and English Syllable Structures and Implications for L2 English Syllable Acquisition. *International Journal of Language and Linguistics* 5(3), 88-113.
- Kügler, F. (2017). Tone and Intonation in Akan. In L.J. Downing & A. Rialland (Eds.). *Intonation in African Tone Languages*, pp. 89-129. Berlin: Walter de Gruyter.
- Ladefoged, P. (1982). *A course in phonetics* (3<sup>rd</sup> Edition). London: Harcourt Brace Javanovich Publishers.
- Ladefoged, P. & Johnson, K. (2011). *A course in phonetics* (6<sup>th</sup> Edition). Carlifornia: Wadsworth.
- Laver, J. (1994). *Principles of Phonetics*. Cambridge: Cambridge University Press.
- Marfo, C. O. (2004). On tone and segmental processes in Akan phrasal words: A prosodic account. *Linguistik Online* 18, 93–110.
- McCarthy, J. J. (1981). A prosodic theory of nonconcatenative morphology. *Linguistic Inquiry* 12, 373-418.
- McCarthy, J.J & Prince, A. (1986). *Prosodic Morphology*. MS, University of Massachusetts and Brandeis.
- McKaughan, H. P. (1954). Chatino formulas and phonemes. *International Journal of American Linguistics* 19, 23 – 27. As cited in Hyman (2011).
- Newman, P. (1995). *Hausa tonology: Complexities in an “easy” tone language*. In Goldsmith (1995), 762–781.
- Nketsiah, J. (2019). *Tone replacement rule in Akan within the framework of autosegmental theory*. Unpublished.

- Obeng, S. G. (2000). Vowel harmony and tone in Akan toponyms. *Studies in Linguistic Sciences* 30, 173-83.
- Odden, D. (1995). Tone: African Languages. In John A. Goldsmith (ed.) *Handbook in Theory*, pp.444-475. Oxford: Basil Blackwell.
- Odden, D. (2005). *Introducing Phonology*. Cambridge: Cambridge University Press.
- Odden, D. (2014). Tone in African languages. In R. Vossen (ed.) *Handbook of African languages*, pp.1-18. Oxford: OUP.
- Ohala, J. J. (1978). Production of Tone. In V.A. Fromkin. (ed.), *Tone: A linguistic survey*. pp. 41–76. New York: Academic Press.
- Owu-Ewie, C. (2017). *Introduction to traditional and action research*. Accra: Data Edege Multimedia.
- Owusu, S. (2015). Tone patterns of possessive constructions in the Asante Dialect of Akan. *International Journal of Language and Linguistics* 2(3), 93-98.
- Pike, K. (1948). *Tone Languages*. Ann Arbor: The University of Michigan Press.
- Roach, P. (2002). *A Little Encyclopedia of Phonetics*. Cambridge: Cambridge University Press.
- Schachter, P. & Fromkin, V. (1968). A Phonology of Akan: Akuapem, Asante and Fante. *UCLA Working papers in Phonetics*, (9) University of California, Los Angeles.
- Stetson, R. H. (1951). *Motor phonetics: A study of speech movements in action*. Oberlin College: North-Holland Publication.
- Stewart, J.M. (1965). *The Typology of the Tvi Tone System*. Legon: Institute of African Studies.
- Yip, M. (1989). Contour tones. *Phonology* 6, 149-174.



Yip, M. (2002). *Tone*. Cambridge Textbooks in Linguistics. Cambridge: Cambridge University Press.

Yule, G. (1996) *The study of language* (2<sup>nd</sup> Ed.). Cambridge: Cambridge University Press.

Zerbian, S., Downing, L. J. & Kügler, F. (2009). Introduction: Tone and intonation from a typological perspective. *Lingua* 119, 817-826.



**NKEKAHO A**

**Akasafo no peekye mma no ankasa a w]de kaa sentase nhyehy[e ahorow a w]n toonu nhyehy[e y[ p[.**

**1. Saa maame yi**

Akuapem Mmarima

Selaboro	sà	á	mà	à	mí	jí
}ksf. 1	151	161	150	135	140	135
}ksf. 2	101	111	87	87	90	187
}ksf. 3	128	136	109	109	115	109

Akuapem Mmea

Selaboro	sà	á	mà	à	mí	jí
}ksf. 1	197	203	189	174	177	173
}ksf. 2	200	210	198	176	184	178
}ksf. 3	151	162	158	142	162	153



Asante Mmarima

Selaboro	sà	á	mà	à	mí	jí
}ksf. 1	126	154	128	117	121	117
}ksf. 2	122	133	113	102	103	99
}ksf. 3	115	130	127	115	118	118

Asante Mmea

Selaboro	sà	á	mà	à	mí	jí
}ksf. 1	168	187	171	158	154	151
}ksf. 2	190	222	173	150	168	153
}ksf. 3	181	193	172	158	171	166

## 2. Kwasi yere

### Akuapem Mmarima

Selaboro	k <sup>w</sup> æ̀	sí	jí	rí
}ksf. 1	157	171	169	159
}ksf. 2	199	111	105	102
}ksf. 3	122	141	138	132

### Akuapem Mmea

Selaboro	k <sup>w</sup> æ̀	sí	jí	rí
}ksf. 1	187	204	194	187
}ksf. 2	181	207	200	189
}ksf. 3	152	211	214	206

Asante Mmarima

Selaboro	k <sup>w</sup> æ̀	sí	jí	rí
}ksf. 1	137	176	163	145
}ksf. 2	126	138	134	128
}ksf. 3	112	130	127	126

Asante Mmea

Selaboro	k <sup>w</sup> æ̀	sí	jí	rí
}ksf. 1	167	197	188	179
}ksf. 2	182	231	206	183
}ksf. 3	188	241	216	194

**3. Mew] Sika**

Akuapem Mmarima

Selaboro	m]i	w]`	s]i	ká
}ksf. 1	158	154	155	162
}ksf. 2	99	96	87	109
}ksf. 3	133	124	131	141

Akuapem Mmea

Selaboro	m]i	w]	s]i	ká
}ksf. 1	187	178	163	186
}ksf. 2	187	178	176	181
}ksf. 3	180	194	193	257

Asante Mmarima

Selaboro	m]i	w]	s]i	ká
}ksf. 1	134	140	135	158
}ksf. 2	121	125	101	123
}ksf. 3	117	114	113	127

Asante Mmea

Selaboro	m]i	w]	s]i	ká
}ksf. 1	169	161	162	201
}ksf. 2	200	196	192	219

}ksf. 3	191	189	121	245
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#### 4. }w] Kumase

##### Akuapem Mmarima

Selaboro	]	w]	k <sup>w</sup> ù	má	sí
}ksf. 1	162	159	159	166	155
}ksf. 2	99	96	95	104	199
}ksf. 3	125	125	129	135	134

##### Akuapem Mmea

Selaboro	]	w]	k <sup>w</sup> ù	má	sí
}ksf. 1	187	184	188	189	183
}ksf. 2	199	200	201	206	193
}ksf. 3	155	156	167	206	198

##### Asante Mmarima

Selaboro	]	w]	k <sup>w</sup> ù	má	sí
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}ksf. 1	156	151	159	167	155
}ksf. 2	136	131	126	139	123
}ksf. 3	122	124	120	132	127

Asante Mmea

Selaboro	]	w]	k <sup>w</sup> ù	má	sí
}ksf. 1	192	191	203	213	192
}ksf. 2	148	148	154	158	158
}ksf. 3	193	194	199	224	228

## 5. }hy[ h]

Akuapem Mmarima

Selaboro	]	e[	h <sup>w</sup> ]
}ksf. 1	156	157	171
}ksf. 2	97	95	109
}ksf. 3	126	130	147

Akuapem Mmea

Selaboro	ᵛ	ᵛ	h <sup>w</sup> ᵛ
ᵛksf. 1	183	108	191
ᵛksf. 2	190	189	202
ᵛksf. 3	125	150	189

Asante Mmarima

Selaboro	ᵛ	ᵛ	h <sup>w</sup> ᵛ
ᵛksf. 1	127	130	147
ᵛksf. 2	123	121	136
ᵛksf. 3	124	124	142

Asante Mmea

Selaboro	ᵛ	ᵛ	h <sup>w</sup> ᵛ
ᵛksf. 1	136	139	126
ᵛksf. 2	186	201	210
ᵛksf. 3	173	175	187



**6. Kofi at]**

## Akuapem Mmarima

Selaboro	k <sup>w</sup> ò	ƒí	á	t <sup>w</sup> ]
}ksf. 1	150	211	191	155
}ksf. 2	103	130	121	106
}ksf. 3	128	159	129	132

## Akuapem Mmea

Selaboro	k <sup>w</sup> ò	ƒí	á	t <sup>w</sup> ]
}ksf. 1	193	235	199	173
}ksf. 2	192	222	215	169
}ksf. 3	198	289	293	137

## Asante Mmarima

Selaboro	k <sup>w</sup> ò	ƒí	á	t <sup>w</sup> ]
}ksf. 1	139	204	178	124
}ksf. 2	125	160	160	120
}ksf. 3	123	154	150	121

Asante Mmea

Selaboro	k <sup>w</sup> ò	ƒí	á	t <sup>w</sup> ]
}ksf. 1	156	202	184	152
}ksf. 2	204	278	256	157
}ksf. 3	204	304	282	162



**NKEKAHO B**

**Akasafo no peekye mma no ankasa a w]de kaa sentase nhyehy[e ahorow a nsonsonoe da w]n toonu nhyehy[e mu**

**1. Me sika**

Akuapem Mmarima

Selaboro	m]i	s]i	ká
ksf. 1	232	165	172
ksf. 2	172	149	144
ksf. 3	126	78	97

Akuapem Mmea

Selaboro	m]i	s]i	ká
ksf. 1	217	186	193
ksf. 2	242	198	202
ksf. 3	281	236	244

Asante Mmarima

Selaboro	m]i	s]i	ká
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}ksf. 1	136	173	112
}ksf. 2	119	147	113
}ksf. 3	125	138	114

Asante Mmea

Selaboro	m'í	s'í	ká
}ksf. 1	182	214	162
}ksf. 2	208	295	175
}ksf. 3	202	316	188

**2. Me nyansa**

Akuapem Mmarima

Selaboro	m'í	ǵá	ń	!sá
}ksf. 1	251	198	194	150
}ksf. 2	157	121	118	93
}ksf. 3	164	153	140	118

Akuapem Mmea

Selaboro	m'í	ǵá	ń	!sá
}ksf. 1	226	199	189	167

}ksf. 2	225	227	201	162
}ksf. 3	254	222	216	180

## Asante Mmarima

Selaboro	m'ì	jà	ń	'sá
}ksf. 1	160	185	205	122
}ksf. 2	134	151	161	114
}ksf. 3	125	136	147	124

## Asante Mmea

Selaboro	m'ì	jà	ń	'sá
}ksf. 1	183	200	221	150
}ksf. 2	208	250	204	93
}ksf. 3	225	245	274	159

**3. Me foto**

Akuapem Mmarima

Selaboro	m'i	fó	tò
ksf. 1	245	196	146
ksf. 2	160	131	80
ksf. 3	166	152	131

## Akuapem Mmea

Selaboro	m'i	fó	tò
ksf. 1	242	206	162
ksf. 2	233	188	165
ksf. 3	300	236	155

## Asante Mmarima

Selaboro	m'i	fó	tò
ksf. 1	141	174	135
ksf. 2	129	164	118
ksf. 3	119	147	113

## Asante Mmea

Selaboro	m'i	fó	tò
}ksf. 1	176	214	165
}ksf. 2	213	267	151
}ksf. 3	224	266	155

#### 4. Met]

##### Akuapem Mmarima

Selaboro	m'i	t <sup>w]</sup>
}ksf. 1	233	150
}ksf. 2	147	82
}ksf. 3	174	149

##### Akuapem Mmea

Selaboro	m'i	t <sup>w]</sup>
}ksf. 1	233	172
}ksf. 2	227	181
}ksf. 3	261	159

## Asante Mmarima

Selaboro	m]i	t <sup>w]</sup>
}ksf. 1	135	188
}ksf. 2	137	171
}ksf. 3	109	137

## Asante Mmea

Selaboro	m]i	t <sup>w]</sup>
}ksf. 1	185	224
}ksf. 2	197	245
}ksf. 3	190	256

**5. Mont] no**

## Akuapem Mmarima

Selaboro	m <sup>wó</sup>	ń	t <sup>w]</sup>	n <sup>wò</sup>
}ksf. 1	213	220	228	176
}ksf. 2	153	169	163	138



}ksf. 3	162	167	166	111
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## Akuapem Mmea

Selaboro	m <sup>wó</sup>	ń	t <sup>wí</sup>	n <sup>wò</sup>
}ksf. 1	223	228	215	178
}ksf. 2	230	230	228	176
}ksf. 3	240	259	258	174

## Asante Mmarima

Selaboro	m <sup>wó</sup>	ń	t <sup>wí</sup>	!n <sup>wó</sup>
}ksf. 1	171	172	172	153
}ksf. 2	175	183	183	166
}ksf. 3	134	134	134	128

## Asante Mmea

Selaboro	m <sup>wó</sup>	ń	t <sup>wí</sup>	!n <sup>wó</sup>
}ksf. 1	210	209	198	178

}ksf. 2	242	246	227	190
}ksf. 3	243	239	224	219

## 6. Masoma no

### Akuapem mmarima

Selaboro	mà	s <sup>w</sup> ó	má	n <sup>w</sup> ò
}ksf. 1	184	227	223	144
}ksf. 2	114	146	139	119
}ksf. 3	131	160	156	115

### Akuapem Mmea

Selaboro	mà	s <sup>w</sup> ó	má	n <sup>w</sup> ò
}ksf. 1	182	206	199	179
}ksf. 2	194	226	217	176
}ksf. 3	139	198	196	138

### Asante Mmarima

Selaboro	mà	s <sup>wó</sup>	má	!n <sup>wó</sup>
}ksf. 1	127	179	169	158
}ksf. 2	141	165	161	152
}ksf. 3	114	135	134	128

## Asante Mmea

Selaboro	mà	s <sup>wó</sup>	má	!n <sup>wó</sup>
}ksf. 1	169	202	200	186
}ksf. 2	192	258	230	186
}ksf. 3	189	254	239	218

**7. Mank] h]**

## Akuapem Mmarima

Selaboro	mà	ḡ	k <sup>wj</sup>	!h <sup>wj</sup>
}ksf. 1	171	172	200	193
}ksf. 2	113	112	127	126
}ksf. 3	130	129	149	138

Akuapem Mmea

Selaboro	mà	ḡ	k <sup>w</sup> ]	'h <sup>w</sup> ]
}ksf. 1	187	184	196	188
}ksf. 2	196	191	209	203
}ksf. 3	192	194	260	244

Asante Mmarima

Selaboro	mà	ḡ	k <sup>w</sup> ]	h <sup>w</sup> ]
}ksf. 1	138	149	152	188
}ksf. 2	138	136	140	147
}ksf. 3	121	117	118	135

Asante Mmea

Selaboro	mà	ḡ	k <sup>w</sup> ]	h <sup>w</sup> ]
}ksf. 1	173	171	170	189
}ksf. 2	189	193	194	243
}ksf. 3	200	200	189	229

