

Appendix 1 - List of queries and test results for sound changes in this study (Lafzi ++)

No	Query	Arabic Text	Gold Standard	Result of the System	Recall	AP
1	Ghisyawah	غَشَوَةٌ	[2:7, 45:23]	[2:7, 45:23, 7:54, 7:157, 3:14, 5:17, 5:40, 24:35, 40:37, 42:12, 2:29, 2:223, 5:14, 7:145, 9:24, 41:10, 2:164, 2:284, 3:129, 35:1, 53:26, 53:31, 59:24, 2:233, 90:17, 103:3, 8:7, 24:21]	1.00	1.00
2	Wal hijaroh	وَالْحِجَارَةُ	[2:24, 66:6]	[2:24, 66:6, 2:74, 8:32]	1.00	1.00
3	Mutohharoh	مُطَهَّرَةٌ	[2:25, 3:15, 4:57, 80:14, 98:2]	[2:25, 3:15, 4:57, 80:14, 98:2, 45:35, 2:222, 28:57, 5:41, 18:31, 47:15]	1.00	1.00
4	Kholifah	خَلِيفَةٌ	[2:30, 38:26]	[2:30, 38:26, 11:88, 18:60, 18:62, 39:21, 7:143, 8:1, 9:83, 33:72, 3:154, 9:122, 61:14, 2:94, 4:94, 5:23, 8:7, 9:60, 13:16, 22:54, 30:28, 30:30, 43:63, 2:264, 2:282, 5:6, 22:5, 4:25, 76:2]	1.00	1.00
5	Tatlunal kitab	الْكِتَابِ	[2:44]	[2:44, 2:113, 29:45, 2:217]	1.00	1.00
6	Baqoroh	بَقْرَةٌ	[2:67, 2:68, 2:69, 2:71]	[2:67, 2:68, 2:69, 2:71, 12:43, 12:46, 2:70, 67:4, 2:167, 26:102, 17:46, 6:144, 6:146, 16:67, 6:91, 17:45, 59:10, 2:114, 2:266, 3:41, 7:57, 7:130, 9:126, 12:6, 13:3, 13:6, 16:11, 16:69, 17:51, 17:60, 24:58, 28:77, 29:29, 39:9, 40:39, 41:43, 48:18, 48:25, 53:32, 73:20, 2:221, 2:282, 5:27, 6:6, 11:40, 12:80, 23:27, 24:1, 16:112, 82:8, 4:77, 8:4, 25:40, 7:54, 10:3]	1.00	1.00
7	Qoswah	تَفْسُومٌ	[2:74]	[2:74, 12:21, 20:108, 31:19, 49:2, 49:3, 74:51, 3:151, 33:21, 3:106]	1.00	1.00

8	Ma'dudah	بَدُوذَعَم	[2:80, 2:184, 2:203, 3:24, 11:8, 12:20]	[2:80, 2:184, 2:203, 3:24, 11:8, 12:20, 2:230]	1.00	1.00
9	Ikhrojuhum	اِخْرَاجُهُمْ	[2:85]	[2:85, 2:217]	1.00	1.00
10	Qudus	قُدُس	[2:87, 2:253, 5:110, 16:102, 59:23, 62:1]	[2:87, 2:253, 5:110, 16:102, 59:23, 62:1]	1.00	1.00
11	Wazaujih	وَزَوَّجِه	[2:102]	[2:102]	1.00	1.00
12	Warohmah	وَرَحْمَةٍ	[57:27, 2:157, 2:178, 3:157, 4:96, 6:154, 6:157, 7:52, 7:154, 7:156, 7:203, 9:61, 10:57, 11:17, 12:111, 16:64, 16:89, 17:82, 19:21, 27:77, 28:43, 30:21, 31:3, 45:20, 46:12, 2:64, 4:83, 4:113, 24:10, 24:14, 24:20, 24:21, 43:32, 2:163, 59:22, 2:218, 3:8, 3:159, 7:56, 10:21, 11:61, 10:57, 11:17, 12:111, 16:64, 16:89, 17:82, 19:21, 27:77, 28:43, 30:21, 31:3, 45:20, 46:12]	[57:27, 2:157, 2:178, 3:157, 4:96, 6:154, 6:157, 7:52, 7:154, 7:156, 7:203, 9:61, 10:57, 11:17, 12:111, 16:64, 16:89, 17:82, 19:21, 27:77, 28:43, 30:21, 31:3, 45:20, 46:12, 2:64, 4:83, 4:113, 24:10, 24:14, 24:20, 24:21, 43:32, 2:163, 59:22, 2:218, 3:8, 3:159, 7:56, 10:21, 11:9, 17:24, 17:28, 17:87, 17:100, 18:10, 18:82, 18:98, 21:107, 28:86, 29:51, 30:36, 36:44, 42:48, 17:57, 67:29, 39:9, 6:12, 6:54, 6:133, 9:21, 11:28, 11:63, 11:66, 11:73, 18:58, 33:17, 39:38, 41:50, 57:13, 7:57, 7:151, 20:109, 21:112, 25:60, 27:19, 28:73, 36:11, 48:25, 13:30, 19:26, 67:3, 5:3]	1.00	1.00
13	Qori'ah	قُرْآن	[69:4, 101:1, 101:2, 101:3]	[13:31, 45:18, 69:4, 101:1, 101:2, 101:3, 19:26, 57:27, 21:109, 72:25, 4:4, 4:112, 16:77, 28:23, 54:48, 2:259, 3:195, 6:121, 6:144, 12:31, 22:41, 24:39, 29:45, 40:40, 49:13, 4:31, 4:38, 4:77, 8:48, 11:28, 11:81, 31:10, 42:17, 7:26, 19:8, 27:40]	1.00	0.53

14	Abwabih	عَابُوبَهَا	[2:189]	[12:67, 15:44, 2:189, 12:23, 16:29, 39:72, 40:76, 39:71, 2:265]	1.00	0.33
15	Nusuk	عَنُسُكٍ	[2:196, 6:162]	[2:196, 6:162, 35:9]	1.00	1.00
16	Kaamilah	كَامِلَةٍ	[2:196]	[2:196, 16:25, 2:130, 3:30, 4:125, 6:161, 16:111, 36:71, 39:70, 51:2, 88:3, 2:120, 2:233, 20:99, 28:57, 36:35, 6:54, 2:135, 3:95, 12:37, 12:38, 14:5, 16:123, 22:78, 34:37, 38:7, 2:188, 3:8, 4:75, 7:88, 7:138, 18:76, 27:6, 2:282, 3:55, 3:114, 3:186, 5:48, 5:64, 5:67, 5:68, 6:52, 10:61, 10:71, 12:66, 17:77, 17:79, 20:40, 28:77, 31:17, 47:15, 53:26, 57:10, 2:277, 4:102, 5:12, 6:144, 7:61, 12:18, 12:25, 16:119, 17:39, 18:49, 24:55, 60:10, 64:7, 29:45, 2:259, 24:37, 29:60, 2:286, 4:60, 2:177, 9:18, 9:36, 35:11, 46:35, 2:228, 2:232, 2:249, 2:264, 6:114, 11:70, 24:2, 41:47, 9:19, 4:162, 41:37, 38:24]	1.00	1.00
17	Fariidoh	عَاقِرِيضَةٍ	[2:236, 2:237, 4:11, 4:24, 9:60]	[2:236, 2:237, 4:11, 4:24, 9:60, 12:19, 2:184, 2:185, 4:102, 5:6, 9:37, 48:29, 74:31, 9:42]	1.00	1.00
18	As haabunar	عَاصِحْبُ النَّارِ	[59:20, 7:50, 2:39, 2:81, 2:217, 2:257, 2:275, 3:116, 7:36, 7:50, 10:27, 13:5, 40:6, 40:43, 58:17, 59:20, 64:10]	[7:50, 2:39, 2:81, 2:217, 2:257, 2:275, 3:116, 7:36, 10:27, 13:5, 40:6, 40:43, 58:17, 59:20, 64:10, 7:44, 5:29, 2:282]	1.00	1.00
19	Arbaaba	عَارِبَابَا	[3:64, 3:80, 9:31]	[3:64, 3:80, 9:31, 12:39, 24:8, 2:234, 2:260, 24:4, 24:45, 41:10, 46:15]	1.00	1.00

20	Mutafarriqoh	سُورَةُ الْمُنْفِرَةِ	[12:67]	[12:67, 12:39, 7:30]	1.00	1.00
21	Tuhibbun	سُورَةُ التَّحِيُّبِ	[3:31, 3:92, 3:152, 7:79, 24:22, 75:20, 89:20, 3:119, 61:13]	[3:31, 3:92, 3:152, 7:79, 24:22, 75:20, 89:20, 3:119, 61:13, 9:108, 24:19, 59:9, 76:27, 2:165, 2:216, 5:54, 2:222, 5:87, 6:141, 61:4]	1.00	1.00
22	Tauroh	سُورَةُ التَّوْرَةِ	[3:93, 5:46, 48:29]	[3:48, 5:110, 3:3, 5:66, 5:68, 3:50, 3:65, 3:93, 5:43, 5:44, 5:46, 7:157, 9:111, 48:29, 61:6, 62:5, 24:58, 33:27]	1.00	0.17
23	Azillah	سُورَةُ الْاِزْلَةِ	[3:123, 27:34, 75:20]	[17:18, 3:123, 5:54, 27:34, 27:37, 76:27, 7:152, 8:2, 10:26, 22:35, 23:60, 75:20, 38:16, 14:2, 2:61, 2:90, 5:112, 9:124, 10:11, 10:27, 16:94, 20:134, 47:20, 70:44, 89:25, 7:150, 16:81, 20:84, 20:109, 36:5, 59:23, 6:157, 40:42, 2:255, 4:57, 6:81, 6:145, 7:33, 9:111, 12:94, 13:35, 17:9, 17:57, 22:30, 24:23, 25:32, 34:23, 40:8, 41:44, 43:31, 57:27, 2:222, 2:228, 3:126, 4:11, 4:157, 4:176, 5:18, 7:164, 9:3, 9:39, 9:40, 9:101, 10:64, 12:32, 12:51, 12:88, 14:1, 17:64, 31:13, 33:53, 36:38, 46:21, 46:35, 53:32, 62:1, 85:8, 20:47, 29:46, 4:60, 4:162, 5:64, 5:68, 34:6, 39:55, 38:24, 62:9, 3:72, 5:3, 7:73, 11:51, 2:264, 3:187, 4:83, 6:93, 6:144, 6:146, 11:64, 12:59, 18:19, 19:23, 20:71, 24:19, 24:63, 34:42, 60:5, 73:20, 2:83, 2:282, 4:77, 7:157, 28:38, 38:26, 66:3, 2:196, 6:124, 24:28]	1.00	0.42

24	Mudo'afah	طُرِّقَ مَضْعَفَةٌ	[3:130]	[3:130, 5:44, 11:61, 27:45, 65:1, 4:43, 5:6, 7:143, 14:9, 2:282, 12:65, 22:5]	1.00	1.00
25	Jahilliyah	طَجَاهِلِيَّةٌ	[48:26, 3:154, 5:50, 33:33]	[48:26, 3:154, 5:50, 33:33, 45:14, 2:79, 3:23, 20:39, 43:32, 56:94, 6:35, 2:260, 24:48, 24:51, 31:31, 2:266, 16:67, 4:17, 6:60, 7:157, 13:38, 22:9, 58:10, 11:42, 5:3, 13:4, 4:11, 7:32, 8:36, 12:76, 24:58, 2:273, 9:19, 2:187, 2:164, 2:282, 31:6, 2:85, 39:8, 3:28, 18:102, 4:75, 8:72, 5:89, 65:11]	1.00	1.00
26	Kulubikum	تَقْلُوبِكُمْ	[3:103, 3:154, 6:46, 8:11, 8:70, 33:51, 33:53, 48:12, 49:7, 49:14]	[33:53, 3:154, 8:70, 33:51, 48:12, 49:7, 49:14, 3:103, 6:46, 8:11, 8:12, 2:93, 3:167, 48:11, 48:26, 74:31, 4:176, 2:282, 2:225, 46:9, 7:172, 2:88, 4:170, 22:54]	1.00	0.50
27	Aqrobun	تَأَقْرَبُونَ	[4:7, 4:33]	[4:7, 4:33, 2:237, 3:167, 4:11, 5:8, 12:60, 16:77, 17:57, 22:13, 50:16, 56:85, 18:81, 2:187, 96:3, 89:15, 73:20]	1.00	1.00
28	Untsayain	تَأْتَيْنِ	[4:11, 4:176, 6:143, 6:144]	[4:11, 4:176, 6:143, 6:144]	1.00	1.00
29	Mimmataroktum	تَمِمَّا تَرَكْتُمْ	[4:12]	[4:12, 23:100, 2:248, 12:37, 59:5, 4:102, 2:61, 24:61, 4:92, 2:282, 5:106]	1.00	1.00

30	Baynannaas	طَبَيِّنَ النَّاسِ	[2:213, 2:224, 3:140, 4:58, 4:105, 4:144, 38:26]	[5:25, 7:89, 20:58, 3:64, 10:29, 18:94, 42:15, 60:4, 2:213, 2:224, 3:140, 4:58, 4:105, 4:114, 38:26, 7:87, 34:26, 38:22, 17:75, 30:47, 3:193, 2:214, 11:38, 32:14, 5:14, 11:66, 11:94, 2:164, 4:129, 5:26, 46:15, 2:102, 2:273, 3:103, 3:112, 4:54, 4:77, 4:150, 7:160, 10:92, 12:100, 14:36, 14:37, 19:58, 19:64, 29:10, 34:12, 35:28, 57:24, 66:8, 2:282, 4:92, 4:141, 5:49, 6:19, 8:72, 10:45, 16:92, 17:53, 18:21, 22:17, 24:43, 28:20, 30:8, 38:27, 48:29, 50:38, 57:13, 8:48, 46:30, 2:13, 4:56, 10:19, 4:103, 3:97, 4:46, 4:153, 5:32, 6:157, 22:5, 2:61, 5:106, 6:114, 7:27, 7:165, 20:40, 10:22, 5:18, 12:17, 14:9, 16:66, 17:60, 20:97, 29:25, 12:38]	1.00	0.31
31	Kulubahum qosiyah	طَوَّاسِيَةً	[5:13]	[5:13]	1.00	1.00
32	Magluulah	طَّعْنَ مَعْلُولَةً	[5:64, 17:29]	[5:64, 17:29, 3:161, 4:171]	1.00	1.00
33	Muqtasidah	طَّعْنُ الْمُتَصِدِّقِ	[5:66]	[5:66, 31:32, 35:32, 6:113]	1.00	1.00
34	Siddiqoh	طَّعْنُ صِدِّيقَةٍ	[5:75]	[5:75, 19:41, 19:56, 4:69, 57:19, 2:30, 7:142, 5:64, 24:61, 5:119]	1.00	1.00
35	Tahriru rokobah	طَّرْقَبَةٌ	[58:3, 4:92, 5:89]	[4:92, 5:89, 58:3]	1.00	1.00
36	Asnaman alihah	طَّعْنُ الْإِلَهَةِ	[6:74]	[6:74, 48:29]	1.00	1.00
37	Sohibah	طَّعْنُ صَاحِبَةٍ	[6:101]	[6:101, 72:3, 70:12, 80:36, 12:39, 12:41, 54:29, 27:60, 29:52, 4:72, 5:106, 8:60, 2:102, 31:20, 35:45, 2:164]	1.00	1.00
38	Waroqil jannah	طَّرَقَ الْجَنَّةِ	[7:22, 20:121]	[7:22, 20:121]	1.00	1.00

39	As habul jannah	طَّاصِحَاتُ الْجَنَّةِ	[2:82, 7:42, 7:44, 10:26, 11:23, 25:24, 46:14, 59:20]	[59:20, 7:44, 2:82, 7:42, 10:26, 11:23, 25:24, 46:14, 9:113, 7:46, 7:50]	1.00	0.50
40	Khofiyah	بَيْفَاخٍ	[19:3, 19:47, 69:18]	[19:3, 19:47, 69:18, 3:25, 2:203, 4:127, 42:45, 6:97, 11:86, 28:18, 57:27, 58:8, 39:42, 41:12, 30:28, 42:33]	1.00	1.00
41	Fakatsarokum	فَكَتَّرَكُمُ	[7:86]	[7:86, 12:81, 9:25, 3:152, 2:266, 11:27, 22:36, 7:129, 5:89]	1.00	1.00
42	Goyruh	عَيْرُهُ	[7:59, 7:65, 7:73, 7:85, 11:50, 11:61, 11:84, 23:23, 23:32]	[7:73, 7:85, 11:61, 11:84, 7:59, 7:65, 11:50, 23:23, 23:32, 11:65, 4:25]	1.00	0.17
43	Lahum alihah	لَهُمْ ءَالِهَةٌ	[7:138, 21:43]	[7:138, 21:43, 11:101, 41:8, 84:25, 26:142, 35:7, 19:81, 38:6, 36:74, 17:99, 2:235, 18:21, 25:3, 46:28, 2:62, 2:277, 4:18, 4:34, 6:31, 17:9, 18:2, 21:36, 28:8, 42:26, 59:15, 67:5, 95:6, 4:102, 2:187, 7:73, 24:33, 2:90, 4:173, 10:4, 13:29, 19:96, 22:56, 24:55, 29:7, 42:23, 47:2, 48:29, 58:22, 65:11, 12:80, 38:24, 45:21, 6:148, 28:27, 2:282, 4:6, 9:28, 9:92, 39:71, 3:179, 4:11, 6:151, 8:72, 9:84, 33:53, 39:73, 59:6, 4:140, 2:233, 3:152, 24:61, 2:217]	1.00	1.00
44	Rozaqnakum	رَزَقْنَاكُمْ	[2:57, 2:172, 2:254, 7:160, 20:81, 30:28, 63:10]	[2:57, 2:172, 2:254, 7:160, 20:81, 30:28, 63:10, 49:13, 13:22, 35:29, 6:148]	1.00	1.00
45	Nuzzilat suroh	سُورَةٍ	[47:20]	[47:20, 9:86, 9:124, 9:127]	1.00	1.00
46	Yuglabuun	يُغْلَبُونَ	[8:36]	[8:36, 3:12]	1.00	1.00

47	Maulaakum	مَوْلَاكُمْ	[3:150, 8:40, 22:78, 57:15, 66:2]	[3:150, 8:40, 22:78, 57:15, 66:2, 3:173, 9:101, 46:27, 67:13, 24:29, 68:28, 2:233, 3:66, 4:5, 5:6, 6:151, 11:27, 11:78, 17:31, 22:30, 27:46, 41:26, 47:30, 47:38, 57:10, 60:4, 65:6, 2:229, 8:68, 11:116, 24:47, 2:64, 2:235, 7:43, 11:12, 25:7, 57:20, 58:1, 2:275, 5:107, 9:120, 16:86, 28:48, 4:25, 6:94, 56:57, 34:31, 4:11, 64:14, 63:10, 2:177, 4:91, 5:18, 47:4, 7:38, 64:16, 4:78]	1.00	1.00
48	Wazuhuuruhum	وَوَظُهُورُهُمْ	[9:35]	[9:35, 9:5]	1.00	1.00
49	Kholidina fiiha abada	خَالِدِينَ فِيهَا أَبَدًا	[4:57, 4:122, 4:169, 5:119, 9:22, 9:100, 33:65, 64:9, 65:11, 72:23, 98:8]	[9:22, 9:100, 64:9, 4:57, 4:122, 4:169, 5:119, 33:65, 65:11, 72:23, 98:8, 6:128, 11:107, 58:22]	1.00	0.19
50	Azabal akhirah	عَذَابَ الْآخِرَةِ	[11:103]	[11:103, 3:145, 41:16, 5:33, 57:20, 59:3, 68:33, 3:56, 4:77, 9:74, 24:14, 24:19, 24:23, 33:57, 2:201, 17:10, 34:8, 2:126]	1.00	1.00
51	Yatadabarunal Qur'an	يَتَذَكَّرُونَ الْفُرَانَ	[4:82, 47:24]	[4:82, 47:24]	1.00	1.00
52	Kama Daholuh	كَمَا دَخَلُوهُ	[17:7]	[17:7, 2:282]	1.00	1.00

55	Ayatin Bayinat	آيَاتٍ بَيِّنَاتٍ	[2:99, 17:101, 22:16, 24:1, 57:9, 58:5, 24:34, 24:46, 45:17, 3:97, 29:49, 65:1, 2:87, 2:253, 11:28, 40:28, 45:25, 6:157, 14:9, 61:6, 65:11, 20:133, 2:213, 22:5, 24:58, 16:92, 4:92]	[2:99, 2:211, 17:101, 22:16, 24:1, 57:9, 58:5, 24:34, 24:46, 45:17, 3:97, 29:49, 65:1, 2:87, 2:253, 11:28, 40:28, 45:25, 6:157, 14:9, 61:6, 65:11, 20:133, 2:213, 22:5, 24:58, 16:92, 4:92]	1.00	1.00
56	Fahtalato bih	فَاخْتَلَطَ بِهِ	[10:24, 18:45]	[10:24, 18:45, 6:146, 5:48, 2:213]	1.00	1.00
57	Wahiya howiyah	وَهِيَ خَاوِيَةٌ	[2:259, 18:42]	[18:42, 2:259, 22:45]	1.00	1.00
58	Bilazi Halaqok	بِالَّذِي خَلَقَكَ	[18:37]	[18:37, 2:29, 17:99, 6:2, 7:189, 40:67, 41:9, 82:7, 64:2, 6:1, 41:37, 30:54, 30:40, 4:1, 6:73, 11:7, 25:54, 2:21, 26:184, 7:54, 10:3, 7:43, 2:61, 4:19, 60:1, 2:259, 7:156]	1.00	1.00
59	Falyanzur	فَلْيَنْظُرْ	[18:19, 22:15]	[22:15, 18:19, 80:24, 86:5, 2:210, 6:158, 7:53, 16:33, 35:43, 43:66, 47:18]	1.00	1.00
60	Waqulu hitoh	وَقُولُوا حِطَّةً	[2:58, 7:161]	[2:58, 7:161, 9:49, 6:93]	1.00	1.00
61	Toyibat	تَابِيئِي طَلَا	[7:157, 8:26, 10:93, 16:72, 17:70, 23:51, 40:64, 45:16]	[2:57, 2:172, 2:267, 3:38, 4:160, 5:4, 5:5, 5:87, 7:32, 7:157, 7:160, 8:26, 9:72, 10:22, 10:93, 14:24, 16:72, 16:97, 17:70, 20:81, 23:51, 24:26, 24:61, 34:15, 40:64, 45:16, 61:12, 46:20, 2:168, 4:43, 5:6, 5:88, 8:69, 16:114, 66:5, 7:58, 13:11]	1.00	0.00
62	Yamuruhum bilma'ruf	يَأْمُرُهُم بِالْمَعْرُوفِ	[7:157]	[7:157, 2:232, 2:233, 3:110, 9:71, 4:25]	1.00	1.00
63	Idz ayatuka biruhilkudus	إِذْ أَيْدِيكَ بِرُوحِ الْقُدُسِ	[5:110]	[5:110]	1.00	1.00
64	Fayuksiman	نَا مَسْقُوفٍ	[5:106, 5:107]	[5:106, 5:107]	1.00	1.00
65	Lahwaningfad	لَهُوَ أَنْفَضُوا	[62:11]	[62:11, 9:109, 2:259, 24:61, 27:40, 73:20, 2:85, 7:22]	1.00	1.00
66	Yastaftunak	لَنْ تُؤْتَفَّتْ سَيِّ	[4:176]	[4:127, 4:176]	1.00	0.50

67	Minhu wafadl	مَنْهُ وَقَضَلْ	[4:175]	[4:175, 2:268, 2:282, 35:32]	1.00	1.00
68	Wama qotaluh	وَمَا قَتَلُوهُ	[4:157, 4:157]	[4:157, 6:140, 2:249, 2:246]	1.00	1.00
69	Waqotlihimul ambiya	وَقَتْلِهِمُ الْأَنْبِيَاءَ	[4:155]	[4:155]	1.00	1.00
70	Fisabt	فِي السَّبْتِ	[2:65, 4:154, 7: 163]	[2:65, 4:154, 7:163, 5:35, 60:1, 73:20, 4:94]	1.00	1.00
71	Wayuridun	نَوْدِيْرِيَوِ	[4:44, 4:150, 4: 150]	[4:150, 4:44, 4:27, 4:60, 4:91, 8:7, 28:79, 28:83, 30:38, 3:152, 9:32, 48:15, 4:134, 5:6, 5:49, 5:91, 9: 55, 9:85, 11:15, 33:13, 33:33, 35: 10, 42:20, 11:34, 5:41, 8:67, 14: 10, 22:25, 36:23]	1.00	1.00

72	Wayaqulun	نَوْلُ وَقَيْو	[3:75, 3:78, 3:78, 4:46, 4:51, 4:81, 4:150, 7:169, 9:61, 10:18, 10:20, 10:48, 17:51, 17:108, 18:22, 21:38, 24:47, 25:22, 27:71, 32:28, 34:29, 36:48, 37:36, 58:8, 67:25, 68:51, 21:46, 19:80, 6:73, 5:73, 11:8, 17:43, 2:26, 2:79, 3:16, 3:154, 4:75, 5:53, 9:65, 10:31, 11:18, 13:7, 13:27, 13:43, 15:97, 16:27, 16:32, 17:42, 18:42, 19:66, 20:104, 20:130, 23:85, 23:87, 23:89, 24:26, 25:65, 25:74, 29:10, 29:55, 29:61, 29:63, 31:25, 33:13, 37:151, 37:167, 38:17, 39:38, 42:108, 18:22, 18:22, 18:22, 18:49, 21:38, 24:47, 25:22, 27:71, 32:28, 34:29, 36:48, 37:36, 58:8, 67:25, 68:51]	[18:49, 18:52, 3:75, 3:78, 4:46, 4:51, 4:81, 4:150, 7:169, 9:61, 10:18, 10:20, 10:48, 17:51, 17:108, 18:22, 21:38, 24:47, 25:22, 27:71, 32:28, 34:29, 36:48, 37:36, 58:8, 67:25, 68:51, 21:46, 19:80, 6:73, 5:73, 11:8, 17:43, 2:26, 2:79, 3:16, 3:154, 4:75, 5:53, 9:65, 10:31, 11:18, 13:7, 13:27, 13:43, 15:97, 16:27, 16:32, 17:42, 18:42, 19:66, 20:104, 20:130, 23:85, 23:87, 23:89, 24:26, 25:65, 25:74, 29:10, 29:55, 29:61, 29:63, 31:25, 33:13, 37:151, 37:167, 38:17, 39:38, 42:44, 43:9, 43:87, 44:34, 46:11, 47:20, 48:11, 48:15, 50:39, 50:45, 58:2, 63:7, 73:10, 78:40, 54:2, 59:11, 33:66, 28:82, 6:25, 46:17, 2:117, 3:7, 3:167, 5:41, 5:52, 5:83, 6:33, 6:148, 9:49, 9:124, 11:13, 11:35, 25:17, 26:226, 28:62, 28:65, 28:74, 34:40, 40:47, 40:68, 42:24, 56:47, 63:8, 66:8, 52:44, 2:61, 2:140, 4:43, 7:28, 11:6, 17:47, 25:27, 27:87, 33:4, 40:28, 4:78, 4:91, 8:39, 9:50, 2:174, 2:275, 9:34, 25:20, 33:37, 74:31, 2:58, 2:91, 3:49, 3:185, 4:11, 4:176, 25:7, 2:74, 2:282, 11:78, 22:72, 4:102]	1.00	0.06
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73	Khosyi'in	نَيِّعْ شَاخ	[3:199, 21:90, 42:45]	[2:45, 2:65, 3:199, 7:166, 21:90, 33:35, 42:45, 20:94, 5:67, 16:69, 22:75, 41:25, 46:18, 2:124, 41:39, 67:4, 2:109, 2:115, 2:247, 2:255, 4:25, 4:58, 6:80, 7:176, 18:31, 22:65, 39:38, 7:156, 11:47, 13:6, 27:44, 39:10, 39:15, 2:196, 3:156, 58:1, 60:4]	1.00	0.39
74	Subhanak	لَكِنَّ أَحْبُس	[2:32, 3:191, 5:116, 7:143, 10:116, 7:143, 10:10, 21:87, 24:16, 25:18, 34:41, 16:57, 12:108, 17:1, 17:93, 17:108, 21:22, 23:91, 27:8, 28:68, 30:17, 36:36, 36:83, 37:159, 37:180, 43:13, 43:82, 52:43, 59:23, 68:29, 2:116, 4:171, 6:100, 9:31, 10:18, 10:68, 16:1, 17:43, 19:35, 21:26, 30:40, 39:4, 39:67]	1.00	1.00	
75	Wayatafakarun	نَوْرُكَفَتَيَو	[3:191]	[3:191, 7:176, 10:24, 13:3, 16:11, 16:44, 16:69, 30:21, 39:42, 45:13, 59:21, 2:219, 2:266, 7:184, 30:8, 6:50, 34:46, 2:282]	1.00	1.00
76	Fanabazuh	مُوذْبَنَف	[3:187]	[3:187, 28:40, 51:40]	1.00	1.00
77	Awliya'ah	مَاءِ اِيْلُوْأ	[3:175, 8:34]	[5:57, 3:28, 4:139, 4:144, 5:51, 7:27, 7:30, 10:62, 5:81, 25:18, 45:10, 60:1, 62:6, 4:76, 4:89, 7:3, 9:23, 11:20, 11:113, 13:16, 17:97, 18:50, 18:102, 29:41, 39:3, 42:6, 42:9, 42:46, 3:175, 6:121, 6:128, 8:34, 33:6, 8:72, 9:71, 2:257, 59:2]	1.00	0.00
78	Wayastabshirun	نَوْرُشُبْتَسَيَو	[3:170]	[3:170, 3:171, 9:124, 15:67, 30:48, 39:45, 9:111]	1.00	1.00
79	Fabidzillah	فِيَاذِن اللّٰه	[3:166, 59:5]	[3:166, 59:5, 2:102, 14:11, 2:249]	1.00	1.00
80	Fiukhrokum	فِي اُخْرَاكُم	[3:153]	[3:153, 6:19, 3:13, 2:282, 7:38]	1.00	1.00

81	Tus'idun	نُودُغْصُنُتْ	[3:153]	[3:153]	1.00	1.00
82	Miqdaruh	هُرَادِقُم	[32:5, 70:4]	[32:5, 70:4]	1.00	1.00
83	Khoirunithma'an	خَيْرِ اَطْمَانً	[22:11]	[22:11, 2:61, 6:93, 35:3]	1.00	1.00
84	Katsirah	كَثِيرَةٌ	[4:94, 23:19, 23:21, 43:73]	[2:245, 2:249, 4:94, 9:25, 23:19, 23:21, 37:48, 38:51, 38:52, 43:73, 48:19, 48:20, 55:56, 19:43, 48:2, 1:6, 2:26, 2:142, 2:213, 2:269, 3:41, 3:51, 3:101, 3:186, 4:1, 4:19, 4:82, 4:90, 4:100, 4:160, 5:15, 5:16, 5:32, 5:49, 5:62, 5:64, 5:68, 5:77, 5:80, 5:81, 6:39, 6:87, 6:91, 6:119, 6:126, 6:153, 6:161, 7:179, 8:43, 8:45, 9:34, 9:82, 10:25, 10:92, 11:56, 11:91, 12:108, 14:1, 14:36, 15:41, 16:76, 16:121, 19:36, 20:33, 20:34, 22:24, 22:40, 22:54, 23:73, 24:46, 25:14, 25:38, 25:49, 26:227, 30:8, 30:46, 33:21, 33:35, 33:41, 34:6, 36:4, 36:61, 36:62, 37:23, 37:118, 38:24, 41:22, 42:52, 43:43, 43:61, 43:64, 49:12, 56:32, 62:10, 67:22, 71:24, 77:3, 9:24, 20:21, 26:214, 58:22, 4:134, 5:66, 6:31, 7:86, 17:12, 17:80, 22:11, 27:13, 33:45, 35:45, 40:78, 42:53, 48:6, 48:8, 79:12, 61:6, 3:22, 3:56, 3:85, 5:5, 9:69, 9:74, 16:109, 29:20, 34:18, 35:18, 3:45, 12:109, 36:11, 2:196]	1.00	0.41
85	Sawa'anil'akif	سَوَاءُ الْعَاكِفُ	[22:25]	[22:25, 2:125, 2:187, 4:77, 3:112]	1.00	1.00

86	Muhsinin	مُحْصِنِينَ	[4:24, 5:5]	[2:58, 2:195, 2:236, 3:134, 3:148, 4:24, 5:5, 5:13, 5:85, 5:93, 6:84, 7:56, 7:161, 9:91, 9:120, 11:115, 12:22, 12:36, 12:56, 12:78, 12:90, 22:37, 28:14, 29:69, 31:3, 37:80, 37:105, 37:110, 37:121, 37:131, 39:34, 39:58, 46:12, 51:16, 77:44, 4:25]	1.00	0.23
87	Wal aqrobun	وَالْأَقْرَبُونَ	[4:7, 4:7, 4:33]	[4:7, 4:33, 16:77, 22:13, 2:187]	1.00	1.00
88	Yuharrifunah	مَنْ وَفَّرَ حُجِّي	[2:75]	[4:46, 5:13, 5:41, 2:75]	1.00	0.25
89	Basing Syadid	بِأَسْ شَدِيدٍ	[17:5, 27:33, 48:16]	[17:5, 27:33, 48:16, 11:80, 14:2, 14:16, 23:77, 34:46, 3:4, 38:26, 57:20, 57:25, 3:56, 18:2, 2:196, 14:7, 35:44]	1.00	1.00
90	I so'iqoh	عُقُوعِ أَصْلًا	[2:55, 4:153, 51:44]	[24:58, 2:55, 4:153, 41:13, 41:17, 51:44, 3:55, 3:59, 21:74, 17:92, 2:34, 2:177, 2:248, 3:42, 3:45, 3:52, 3:124, 4:97, 4:166, 6:93, 6:111, 7:11, 7:143, 8:12, 13:13, 16:2, 16:49, 17:61, 18:50, 20:116, 21:35, 23:24, 35:1, 39:68, 41:14, 43:60, 74:31, 2:187, 42:13, 65:4, 2:217, 4:3, 5:3, 5:45, 5:60, 5:112, 7:157, 24:62, 33:19, 49:11, 57:10, 6:125, 24:37, 30:48, 9:18, 11:12, 20:130, 24:61, 5:2, 2:246, 3:13, 5:12]	1.00	0.56

91	Syafa'ah	مَّة عَافَشْ	[2:48, 2:123, 2:254]	[4:85, 20:109, 34:23, 74:48, 2:48, 2:123, 2:254, 19:87, 39:44, 43:86, 36:23, 53:26, 49:9, 12:84, 54:29, 7:175, 10:90, 15:18, 37:10, 87:9, 4:24, 7:38, 7:138, 22:44, 57:27, 33:50, 59:7, 2:187, 2:253, 4:19, 6:165, 7:155, 2:229, 2:259, 7:28, 9:18, 10:98, 11:81, 12:42, 12:107, 13:17, 16:45, 23:44, 33:67, 42:40, 43:54, 48:10, 59:2, 65:6, 4:153, 24:13, 2:234, 2:158, 3:103, 4:12, 4:23, 4:128, 30:48, 47:18, 2:184, 2:185, 2:282, 2:283, 3:193, 4:97, 4:102, 5:3, 6:89, 9:5, 9:11, 18:62, 20:64, 20:88, 20:121, 21:79, 24:33, 24:54, 26:187, 27:44, 28:15, 28:76, 58:4, 58:12, 60:10, 64:12, 73:16, 2:63, 2:93, 7:53, 27:40, 31:12, 4:15, 2:233, 4:25, 4:34, 4:81, 18:77, 8:66, 2:249, 2:258, 3:167, 5:110, 7:95, 10:3, 33:53, 22:36, 27:92, 29:56]	1.00	0.32
92	Bisuroh	قَرُوسِب	[2:23, 10:38]	[2:23, 10:38, 82:8, 30:13, 68:41, 57:13, 22:15, 6:137, 12:53]	1.00	1.00

93	Wa anzal	لَزْنَ أُو	[2:22, 2:213, 3:3, 3:4, 4:113, 9:26, 14:32, 20:53, 27:60, 33:26, 39:6, 4:174, 5:48, 16:44, 23:18, 24:1, 25:48, 31:10, 57:25, 78:14, 29:51, 8:41, 2:231, 3:154, 2:59, 15:90, 16:64, 20:2, 22:5, 36:28, 39:41, 41:39, 13:37, 20:113, 22:16, 29:47, 2:90, 2:91, 2:164, 2:170, 2:174, 4:61, 4:166, 5:45, 5:47, 5:49, 5:104, 6:91, 6:93, 9:97, 10:59, 12:40, 16:24, 16:30, 17:102, 22:63, 23:24, 31:21, 35:27, 36:15, 39:21, 41:14, 42:15, 45:5, 47:9, 48:18, 48:26, 53:23, 2:41, 2:159, 3:53, 4:105, 4:153, 5:44, 7:57, 10:94, 12:2, 15:22, 26:65, 27:53, 28:24, 39:2, 44:3, 50:44, 97:1, 29:33, 18:1, 3:7, 7:26, 24:46, 30:35, 58:5, 4:136, 6:99, 6:114, 13:17, 16:10, 16:65, 42:17, 48:4, 65:10, 2:6, 2:50, 2:99, 6:8, 6:155, 7:64, 7:83, 10:24, 14:44, 17:105, 18:45, 21:9, 21:50, 27:57, 29:15, 29:24, 36:10, 40:18, 56:69, 59:21, 64:8, 65:5, 7:63, 7:69, 38:4, 7:143, 7:185, 23:29, 43:17, 3:75, 3:160, 4:57, 5:58, 7:146, 7:165, 11:116, 14:6, 20:80, 33:37, 41:12, 58:12, 64:9, 7:141, 12:72, 2:275, 3:185, 12:38, 33:53, 2:196, 3:15, 5:60, 10:54, 18:74, 18:82, 20:88, 23:27, 42:45, 9:100, 33:72, 16:85, 20:97, 9:36]	1.00	1.00	
94	Bilmawadah	فُدْوَمَ اب	[60:1]	[60:1, 42:23, 2:233, 2:236, 4:34, 5:106, 2:177, 5:110]	1.00	1.00

95	Muhajirot	يَتَّارِحُهُمْ	[60:10]	[60:10, 4:100, 9:100, 9:117, 24:22, 4:89, 6:92]	1.00	1.00
96	Walayaznin	وَلَا يَزْنِينَ	[60:12]	[60:12, 35:1]	1.00	1.00
97	Bibuhtan	بِنَاتِهِبِ	[60:12]	[60:12]	1.00	1.00
98	Wa a'anah	مِّنْ أَعْو	[25:4]	[25:4, 4:93, 48:6, 8:24, 22:6, 53:50, 9:114, 29:32, 33:57, 28:82, 47:23, 63:4, 7:83, 18:21, 3:81, 2:275, 22:16, 4:66, 2:235, 34:33, 28:13, 46:15, 66:3, 4:135, 5:49, 6:6, 8:7, 12:90, 58:22, 2:266, 7:160, 8:66, 12:51, 33:37, 3:195, 9:100, 18:34, 11:40, 9:12, 4:25, 7:157, 16:101, 48:29, 60:4, 60:10, 3:152, 18:50, 33:53, 18:57, 48:11, 41:44, 4:92, 4:102, 6:71, 33:51, 73:20]	1.00	1.00
99	Masalanil kaum	مَثَلًا الْقَوْمِ	[7:177]	[7:177, 3:140, 7:176, 66:11, 46:35, 5:2, 2:264, 5:95, 28:25, 4:90]	1.00	1.00
100	Musaytirun	نُورِطِيصُّمَلَا	[52:37]	[52:37, 5:6]	1.00	1.00
Rata-rata					1.00	0.87

Appendix 2 - List of queries and test results for sound changes in this study (Lafzi +)

No	Query	Arabic Teks	Gold Standard	Result of the System	Recall	AP
1	Ghisyawah	غَشَوَةٌ	[2:7, 45:23]	[2:7, 45:23, 7:54, 7:157, 90:17, 3:14, 5:17, 5:40, 24:35, 40:37, 42:12, 2:29, 2:223, 5:14, 7:145, 9:24, 2:164, 2:284, 3:129, 35:1, 53:26, 53:31, 59:24, 2:233, 41:10, 103:3, 8:7, 24:21]	1.00	1.00
2	Wal hijaroh	وَالْحِجَارَةُ	[2:24, 66:6]	[2:24, 66:6, 2:74, 8:32]	1.00	1.00
3	Mutohharoh	مُطَهَّرَةٌ	[2:25, 3:15, 4:57, 80:14, 98:2]	[2:25, 3:15, 4:57, 80:14, 98:2, 45:35, 2:222, 28:57, 5:41, 18:31, 47:15]	1.00	1.00

4	Kholifah	خَلِيفَةٌ	[2:30, 38:26]	[2:30, 38:26, 11:88, 18:60, 18:62, 39:21, 7:143, 8:1, 9:83, 33:72, 3:154, 9:122, 61:14, 2:94, 4:94, 5:23, 8:7, 9:60, 22:54, 30:28, 30:30, 43:63, 13:16, 2:264, 5:6, 4:25, 76:2, 2:282, 22:5]	1.00	1.00
5	Tatlunal kitab	الْكِتَابِ	[2:44]	[2:44, 2:113]	1.00	1.00
6	Baqoroh	بَقْرَةَ	[2:67, 2:68, 2:69, 2:71]	[2:67, 2:68, 2:69, 2:71, 12:43, 12:46, 2:70, 67:4, 2:167, 26:102, 17:46, 6:146, 16:67, 6:91, 17:45, 59:10, 6:144, 2:114, 2:266, 3:41, 7:57, 7:130, 9:126, 12:6, 13:3, 13:6, 16:11, 16:69, 17:51, 17:60, 24:58, 28:77, 39:9, 40:39, 41:43, 48:18, 48:25, 53:32, 73:20, 2:221, 2:282, 5:27, 11:40, 12:80, 23:27, 24:1, 16:112, 29:29, 82:8, 4:77, 8:4, 7:54, 10:3, 25:40, 6:6]	1.00	1.00
7	Qoswah	قَسْوَمًا	[2:74]	[2:74, 12:21, 20:108, 31:19, 49:2, 49:3, 74:51, 3:151, 33:21, 3:106]	1.00	1.00
8	Ma'dudah	مَدُّودًا	[2:80, 2:184, 2:203, 3:24, 11:8, 12:20]	[2:80, 2:184, 2:203, 3:24, 11:8, 12:20, 2:230]	1.00	1.00
9	Ikhrojuhum	إِخْرَاجَهُمْ	[2:85]	[2:85]	1.00	1.00
10	Qudus	قُدُّوسًا	[2:87, 2:253, 5:110, 16:102, 59:23, 62:1]	[2:87, 2:253, 5:110, 16:102, 59:23, 62:1]	1.00	1.00
11	Wazaujih	وَزَوَّجِهِ	[2:102]	[2:102]	1.00	1.00

12	Warohmah	وَرَحْمَةً	[57:27, 2:157, 2:178, 3:157, 4:96, 6:154, 6:157, 7:52, 7:154, 7:156, 7:203, 9:61, 10:57, 11:17, 12:111, 16:64, 16:89, 17:82, 19:21, 27:77, 28:43, 30:21, 31:3, 45:20, 46:12, 2:64, 4:83, 4:113, 24:10, 24:14, 24:20, 24:21, 43:32, 2:163, 59:22, 2:218, 3:8, 3:159, 7:56, 10:21, 11:61, 10:57, 11:17, 12:111, 16:64, 16:89, 17:82, 19:21, 27:77, 28:43, 30:21, 31:3, 45:20, 46:12]	[57:27, 2:157, 2:178, 3:157, 4:96, 6:154, 6:157, 7:52, 7:154, 7:156, 7:203, 9:61, 10:57, 11:17, 12:111, 16:64, 16:89, 17:82, 19:21, 27:77, 28:43, 30:21, 31:3, 45:20, 46:12, 2:64, 4:83, 4:113, 24:10, 24:14, 24:20, 24:21, 43:32, 2:163, 59:22, 2:218, 3:8, 3:159, 7:56, 10:21, 11:9, 17:24, 17:28, 17:87, 17:100, 18:10, 18:82, 18:98, 21:107, 28:86, 29:51, 30:36, 36:44, 42:48, 17:57, 21:112, 67:29, 39:9, 6:12, 6:54, 6:133, 9:21, 11:28, 11:63, 11:66, 11:73, 18:58, 33:17, 39:38, 41:50, 57:13, 7:57, 7:151, 20:109, 25:60, 27:19, 28:73, 36:11, 48:25, 13:30, 19:26, 67:3, 5:3]	1.00	1.00
13	Qori'ah	قُرْآنِ	[69:4, 101:1, 101:2, 101:3]	[13:31, 45:18, 69:4, 101:1, 101:2, 101:3, 19:26, 57:27, 21:109, 72:25, 4:4, 4:112, 16:77, 28:23, 54:48, 2:259, 3:195, 6:121, 6:144, 12:31, 22:41, 24:39, 29:45, 40:40, 49:13, 4:31, 4:38, 4:77, 11:28, 11:81, 31:10, 42:17, 8:48, 19:8, 27:40, 7:26]	1.00	0.00
14	Abwabih	أَبْوَابِهَا	[2:189]	[12:67, 15:44, 2:189, 12:23, 16:29, 39:72, 40:76, 39:71, 2:265]	1.00	0.00
15	Nusuk	نُسُكٍ	[2:196, 6:162]	[2:196, 6:162, 35:9]	1.00	1.00

16	Kaamilah	كامله	[2:196]	[2:196, 16:25, 2:130, 3:30, 4:125, 6:161, 16:111, 36:71, 39:70, 51:2, 88:3, 2:120, 2:233, 20:99, 28:57, 36:35, 12:37, 6:54, 2:135, 3:95, 12:38, 14:5, 16:123, 22:78, 34:37, 38:7, 3:8, 4:75, 7:88, 7:138, 18:76, 27:6, 2:188, 2:282, 3:55, 3:114, 5:48, 5:64, 5:67, 5:68, 6:52, 10:61, 10:71, 12:66, 17:77, 17:79, 28:77, 53:26, 57:10, 2:277, 4:102, 5:12, 6:144, 7:61, 12:18, 12:25, 16:119, 17:39, 18:49, 24:55, 60:10, 64:7, 29:45, 2:259, 24:37, 29:60, 4:60, 2:286, 47:15, 20:40, 3:186, 31:17, 9:36, 35:11, 46:35, 2:228, 2:232, 2:249, 2:264, 6:114, 24:2, 41:47, 9:19, 4:162, 38:24, 2:177, 9:18, 11:70, 41:37]	1.00	1.00
17	Fariidoh	قريضة	[2:236, 2:237, 4:11, 4:24, 9:60]	[2:236, 2:237, 4:11, 4:24, 9:60, 12:19, 2:184, 2:185, 4:102, 5:6, 9:37, 48:29, 74:31, 9:42]	1.00	1.00
18	As haabunar	اصحاب النار	[59:20, 7:50, 2:39, 2:81, 2:217, 2:257, 2:275, 3:116, 7:36, 7:50, 10:27, 13:5, 40:6, 40:43, 58:17, 59:20, 64:10]	[59:20, 7:50, 2:39, 2:81, 2:217, 2:257, 2:275, 3:116, 7:36, 10:27, 13:5, 40:6, 40:43, 58:17, 64:10, 7:44]	1.00	1.00
19	Arbaaba	اربابا	[3:64, 3:80, 9:31]	[3:64, 3:80, 9:31]	1.00	1.00
20	Mutafarriqoh	متفرقة	[12:67]	[12:67, 12:39, 7:30]	1.00	1.00

21	Tuhibbun	تُحِبُّونَ	[3:31, 3:92, 3:152, 7:79, 24:22, 75:20, 89:20, 3:119, 61:13]	[3:31, 3:92, 3:152, 7:79, 24:22, 75:20, 89:20, 3:119, 61:13]	1.00	1.00
22	Tauroh	طَوَّرْنَا	[3:93, 5:46, 48:29]	[3:48, 5:110, 3:3, 5:66, 5:68, 3:50, 3:65, 3:93, 5:43, 5:44, 5:46, 7:157, 9:111, 48:29, 61:6, 62:5, 24:58, 33:27]	1.00	0.00
23	Azillah	طَوَّرْنَا	[3:123, 27:34, 75:20]	[17:18, 3:123, 5:54, 27:34, 27:37, 76:27, 7:152, 8:2, 10:26, 22:35, 23:60, 75:20, 38:16, 14:2, 59:23, 2:61, 2:90, 5:112, 9:124, 10:11, 10:27, 16:94, 20:134, 47:20, 70:44, 89:25, 7:150, 16:81, 20:109, 36:5, 20:84, 29:46, 6:157, 3:72, 40:42, 6:81, 6:145, 7:33, 9:111, 12:94, 13:35, 17:9, 17:57, 22:30, 25:32, 34:23, 40:8, 41:44, 43:31, 57:27, 2:222, 2:228, 3:126, 4:11, 4:176, 5:18, 7:164, 9:3, 9:40, 12:32, 12:51, 12:88, 14:1, 17:64, 31:13, 33:53, 36:38, 46:21, 46:35, 53:32, 62:1, 85:8, 9:101, 20:47, 34:6, 4:60, 4:162, 5:64, 5:68, 39:55, 38:24, 7:157, 10:64, 4:157, 4:57, 9:39, 24:23, 62:9, 5:3, 11:51, 3:187, 6:93, 6:144, 12:59, 19:23, 20:71, 24:19, 24:63, 34:42, 60:5, 73:20, 2:83, 2:282, 4:77, 38:26, 28:38, 66:3, 2:196, 6:124, 24:28, 2:255, 4:83, 18:19, 6:146, 2:264, 7:73, 11:64]	1.00	0.00
24	Mudo'afah	طَوَّرْنَا	[3:130]	[3:130, 5:44, 11:61, 27:45, 65:1, 4:43, 5:6, 7:143, 14:9, 2:282, 12:65, 22:5]	1.00	1.00

25	Jahilliyah	طَّاهِلِيَّةٌ	[48:26, 3:154, 5:50, 33:33]	[48:26, 3:154, 5:50, 33:33, 45:14, 2:79, 3:23, 20:39, 43:32, 56:94, 6:35, 2:260, 24:48, 24:51, 31:31, 2:266, 16:67, 4:17, 6:60, 13:38, 22:9, 58:10, 11:42, 5:3, 4:11, 8:36, 12:76, 24:58, 2:273, 9:19, 2:187, 2:282, 31:6, 2:85, 39:8, 2:164, 7:32, 13:4, 3:28, 18:102, 4:75, 8:72, 5:89, 7:157, 65:11]	1.00	1.00
26	Kulubikum	طَّالُوِيْكُمُ	[3:103, 3:154, 6:46, 8:11, 8:70, 33:51, 33:53, 48:12, 49:7, 49:14]	[33:53, 3:154, 8:70, 33:51, 48:12, 49:7, 49:14, 3:103, 6:46, 8:11, 48:11, 2:93, 7:172]	1.00	0.50
27	Aqrobun	طَّأَرْبُونُ	[4:7, 4:33]	[4:7, 4:33]	1.00	1.00
28	Untsayain	طَّأَنْتَيْيْنِ	[4:11, 4:176, 6:143, 6:144]	[4:11, 4:176, 6:143, 6:144]	1.00	1.00
29	Mimmataroktum	طَّأَمَّا تَرَكْتُمْ	[4:12]	[4:12, 12:37, 59:5, 2:282]	1.00	1.00
30	Bayannaas	طَّأَبِيْنَ النَّاسِ	[2:213, 2:224, 3:140, 4:58, 4:105, 4:114, 38:26, 30:47, 34:26, 5:14, 105, 4:144, 38:26]	[2:213, 2:224, 3:140, 4:58, 4:105, 4:114, 38:26, 30:47, 34:26, 5:14, 46:15, 2:102, 66:8, 4:141, 5:49, 30:8, 38:27, 10:19]	1.00	0.98
31	Kulubahum qosiyah	طَّأَقْسِيَّةٌ	[5:13]	[5:13]	1.00	1.00
32	Magluulah	طَّأَمَّغُولَةٌ	[5:64, 17:29]	[5:64, 17:29, 3:161, 4:171]	1.00	1.00
33	Muqtasidah	طَّأَمَّقْتَصِدَةٌ	[5:66]	[5:66, 31:32, 35:32, 6:113]	1.00	1.00
34	Siddiqoh	طَّأَصِدِّيقَةٌ	[5:75]	[5:75, 19:41, 19:56, 4:69, 57:19, 2:30, 7:142, 5:64, 24:61, 5:119]	1.00	1.00
35	Tahriru rokobah	طَّأَرْقَبَةٌ	[58:3, 4:92, 5:89]	[58:3, 4:92, 5:89]	1.00	1.00
36	Asnaman alihah	طَّأَعَالِهَةٌ	[6:74]	[6:74, 48:29]	1.00	1.00

37	Sohibah	صَلْحِبَةٌ	[6:101]	[6:101, 72:3, 70:12, 80:36, 12:39, 12:41, 54:29, 27:60, 29:52, 4:72, 5:106, 8:60, 2:102, 31:20, 35:45, 2:164]	1.00	1.00
38	Waroqil jannah	وَرَقَ الْجَنَّةِ	[7:22, 20:121]	[7:22, 20:121]	1.00	1.00
39	As habul jannah	أَصْحَابُ الْجَنَّةِ	[2:82, 7:42, 7:44, 10:26, 11:23, 25:24, 46:14, 59:20]	[59:20, 7:44, 7:50, 2:82, 7:42, 10:26, 11:23, 25:24, 46:14, 9:113, 7:46]	1.00	0.00
40	Khofiyah	خُوفِيَاخ	[19:3, 19:47, 69:18]	[19:3, 19:47, 69:18, 3:25, 2:203, 4:127, 42:45, 6:97, 11:86, 28:18, 57:27, 58:8, 39:42, 41:12, 30:28, 42:33]	1.00	1.00
41	Fakatsarokum	فَكَاثَرَكُمُ	[7:86]	[7:86, 12:81]	1.00	1.00
42	Goyruh	غَيْرُهُ	[7:59, 7:65, 7:73, 7:85, 11:50, 11:61, 11:84, 23:23, 23:32]	[7:73, 7:85, 11:61, 11:84, 7:59, 7:65, 11:50, 23:23, 23:32, 11:65, 4:25]	1.00	0.17
43	Lahum alihah	لَهُمْ إِلَهَةٌ	[7:138, 21:43]	[7:138, 21:43, 11:101, 41:8, 84:25, 2:62, 95:6, 36:74, 17:99, 26:142, 35:7, 2:277, 4:34, 19:81, 38:6, 2:235, 18:21, 38:24, 25:3, 46:28, 4:18, 6:31, 6:151, 17:9, 18:2, 21:36, 28:8, 42:26, 59:15, 67:5, 28:27, 4:102, 2:187, 7:73, 24:33, 2:90, 4:173, 10:4, 13:29, 19:96, 22:56, 29:7, 42:23, 47:2, 58:22, 12:80, 24:55, 3:179, 48:29, 45:21, 6:148, 2:282, 9:28, 9:92, 39:71, 4:11, 8:72, 9:84, 33:53, 39:73, 3:152, 4:6, 59:6, 4:140, 2:233, 24:61, 65:11, 2:217]	1.00	1.00

44	Rozaqnakum	رَزَقْنَاكُمْ	[2:57, 2:172, 2:254, 7:160, 20:81, 30:28, 63:10]	[2:254, 63:10, 2:57, 7:160, 2:172, 20:81, 30:28, 35:29]	1.00	0.25
45	Nuzzilat suroh	سُورَةٍ	[47:20]	[47:20, 9:86, 9:124, 9:127]	1.00	1.00
46	Yuglabuun	يُعْلَبُونَ	[8:36]	[8:36]	1.00	1.00
47	Maulaakum	مَوْلَانَكُمْ	[3:150, 8:40, 22:78, 57:15, 66:2]	[3:150, 8:40, 22:78, 57:15, 66:2, 3:173, 57:10, 60:4, 4:5, 2:275, 2:177, 4:91]	1.00	1.00
48	Wazuhuruhum	وَضَهُورُهُمْ	[9:35]	[9:35]	1.00	1.00
49	Kholidina fiiha abada	خَالِدِينَ فِيهَا أَبَدًا	[4:57, 4:122, 4:169, 5:119, 9:22, 9:100, 33:65, 64:9, 65:11, 72:23, 98:8]	[9:22, 9:100, 64:9, 4:57, 4:122, 4:169, 5:119, 33:65, 65:11, 72:23, 98:8]	1.00	0.19
50	Azabal akhirah	عَذَابَ الْآخِرَةِ	[11:103]	[11:103, 34:8, 3:145, 41:16, 5:33, 57:20, 59:3, 68:33, 3:56, 4:77, 9:74, 24:14, 24:19, 24:23, 33:57, 2:201, 17:10, 2:126]	1.00	1.00
51	Yatadabarunal Qur'an	يَتَذَكَّرُونَ الْقُرْآنَ	[4:82, 47:24]	[4:82, 47:24]	1.00	1.00
52	Kama Daholuh	كَمَا دَخَلُوهُ	[17:7]	[17:7, 2:282]	1.00	1.00

53	Faulaik	قَالَ لَيْكَ	[2:81, 2:160, 2:217, 2:229, 2:275, 3:82, 3:94, 4:17, 4:69, 4:97, 4:99, 4:124, 4:146, 5:44, 5:45, 5:47, 7:8, 7:9, 7:178, 8:75, 9:23, 17:19, 17:71, 19:60, 20:75, 22:57, 23:7, 23:102, 23:103, 24:13, 24:102, 23:103, 24:13, 24:52, 24:55, 25:70, 30:16, 30:39, 34:37, 40:40, 42:41, 49:11, 59:9, 60:9, 63:9, 64:16, 70:31, 72:14, 41:44, 2:235, 6:151]	[2:81, 2:121, 2:160, 2:217, 2:229, 2:275, 3:82, 3:94, 4:17, 4:69, 4:97, 4:99, 4:124, 4:146, 5:44, 5:45, 5:47, 7:8, 7:9, 7:178, 8:75, 9:23, 17:19, 17:71, 19:60, 20:75, 22:57, 23:7, 23:102, 23:103, 24:13, 24:52, 24:55, 25:70, 30:16, 30:39, 34:37, 40:40, 42:41, 49:11, 59:9, 60:9, 63:9, 64:16, 70:31, 72:14, 41:44, 2:235, 6:151]	1.00	1.00
54	Alayhina Junah	عَلَيْهِنَّ جُنَاحٌ	[24:60]	[24:60, 24:58, 24:31, 33:55, 2:282, 4:153, 3:154]	1.00	1.00
55	Ayatin Bayinat	آيَاتٍ بَيِّنَاتٍ	[2:99, 17:101, 22:16, 24:1, 57:9, 58:5]	[17:101, 2:99, 2:211, 22:16, 24:1, 57:9, 58:5, 24:34, 24:46, 45:25, 45:17, 3:97, 29:49, 65:1, 2:87, 2:253, 11:28, 40:28, 6:157, 14:9, 65:11, 20:133, 2:213, 24:58, 16:92, 4:92, 22:5, 61:6]	1.00	0.00
56	Fahtalato bih	فَأَحْتَلَطْ بِهِ	[10:24, 18:45]	[10:24, 18:45, 6:146, 5:48, 2:213]	1.00	1.00
57	Wahiya howiyah	وَهِيَ خَاوِيَةٌ	[2:259, 18:42]	[18:42, 2:259, 22:45]	1.00	0.00
58	Bilazi Halaqok	بِالَّذِي خَلَقَكَ	[18:37]	[18:37, 7:189, 41:9, 26:184]	1.00	1.00
59	Falyanzur	فَلْيَنْظُرْ	[18:19, 22:15]	[22:15, 18:19, 80:24, 86:5, 35:43]	1.00	0.00
60	Waqulu hitoh	وَقُولُوا حِطَّةً	[2:58, 7:161]	[2:58, 7:161, 9:49, 6:93]	1.00	1.00

61	Toyibat	تَابِيَّطِلَا	[7:157, 8:26, 10:93, 16:72, 17:70, 23:51, 40:64, 45:16]	[24:26, 2:57, 2:172, 2:267, 3:38, 4:160, 5:4, 5:5, 5:87, 7:32, 7:157, 7:160, 8:26, 9:72, 10:22, 10:93, 14:24, 16:72, 16:97, 17:70, 20:81, 23:51, 24:61, 34:15, 40:64, 45:16, 61:12, 46:20, 66:5]	1.00	0.00
62	Yamuruhum bilma'ruf	يَأْمُرُهُم بِالْمَعْرُوفِ	[7:157]	[7:157]	1.00	1.00
63	Idz ayatuka biruhilkudus	إِذْ أَيْدِيكَ بَرُوحِ الْفُؤْسِ	[5:110]	[5:110]	1.00	1.00
64	Fayuksiman	نَآمِسُقِيْفِ	[5:106, 5:107]	[5:106, 5:107]	1.00	1.00
65	Lahwaningfad	لَهُوَ انْقَضُوا	[62:11]	[]	0.00	0.00
66	Yastaftunak	الْفَنُوتُفَتْسَي	[4:176]	[4:127, 4:176]	1.00	0.00
67	Minhu wafadl	مَنْهُ وَقَضِلْ	[4:175]	[4:175, 2:268]	1.00	1.00
68	Wama qotaluh	وَمَا قَتَلُوهُ	[4:157, 4:157]	[4:157, 6:140, 2:249, 2:246]	1.00	1.00
69	Waqotlihimul ambiya	وَقَتْلُهُمُ الْاَنْبِيَاءَ	[4:155]	[4:155]	1.00	1.00
70	Fisabt	فِي السَّبْتِ	[2:65, 4:154, 7:163]	[2:65, 4:154, 7:163, 5:35, 73:20, 4:94, 60:1]	1.00	1.00
71	Wayuridun	نَوْدِيْرِيَوِ	[4:44, 4:150, 4:150]	[4:150, 4:44, 4:60, 4:91, 8:7, 9:32, 5:41]	1.00	0.00

80	Fiukhrokum	فِي الْخُرَاكُمُ	[3:153]	[3:153, 6:19, 3:13, 2:282, 7:38]	1.00	1.00
81	Tus'idun	نَوْدُغَصَاتٍ	[3:153]	[3:153]	1.00	1.00
82	Miqdaruh	مُرَاتِقُمُ	[32:5, 70:4]	[32:5, 70:4]	1.00	1.00
83	Khoirunithma'an	خَيْرٍ اِطْمَآنًا	[22:11]	[22:11, 2:61, 6:93, 35:3]	1.00	1.00
84	Katsirah	كَثِيرَةٌ	[4:94, 23:19, 23:21, 43:73]	[2:245, 2:249, 4:94, 9:25, 23:19, 23:21, 37:48, 38:51, 38:52, 43:73, 48:19, 48:20, 55:56, 19:43, 48:2, 1:6, 2:26, 2:142, 2:213, 2:269, 3:41, 3:51, 3:101, 3:186, 4:1, 4:19, 4:82, 4:90, 4:100, 4:160, 5:15, 5:16, 5:32, 5:49, 5:62, 5:64, 5:68, 5:77, 5:80, 5:81, 6:39, 6:87, 6:91, 6:119, 6:126, 6:153, 6:161, 7:179, 8:43, 8:45, 9:34, 9:82, 10:25, 10:92, 11:56, 11:91, 12:108, 14:1, 14:36, 15:41, 16:76, 16:121, 19:36, 20:33, 20:34, 22:24, 22:40, 22:54, 23:73, 24:46, 25:14, 25:38, 25:49, 26:227, 30:8, 30:46, 33:21, 33:35, 33:41, 34:6, 36:4, 36:61, 36:62, 37:23, 37:118, 38:24, 41:22, 42:52, 43:43, 43:61, 43:64, 49:12, 56:32, 62:10, 67:22, 71:24, 77:3, 9:24, 20:21, 26:214, 58:22, 4:134, 5:66, 6:31, 7:86, 17:12, 17:80, 22:11, 27:13, 33:45, 35:45, 40:78, 42:53, 48:6, 48:8, 79:12, 61:6, 3:22, 3:56, 3:85, 5:5, 9:69, 9:74, 16:109, 29:20, 34:18, 35:18, 3:45, 12:109, 36:11, 2:196]	1.00	0.00
85	Sawa'anil'akif	سَوَاءَ الْعَاكِفُ	[22:25]	[2:187, 22:41]	0.00	0.00

86	Muhsinin	مُحْسِنِينَ	[4:24, 5:5]	[2:58, 2:195, 2:236, 3:134, 3:148, 4:24, 5:5, 5:13, 5:85, 5:93, 6:84, 7:56, 7:161, 9:91, 9:120, 11:115, 12:22, 12:36, 12:56, 12:78, 12:90, 22:37, 28:14, 29:69, 31:3, 37:80, 37:105, 37:110, 37:121, 37:131, 39:34, 39:58, 46:12, 51:16, 77:44]	1.00	0.00
87	Wal aqrobun	وَالْأَقْرَبُونَ	[4:7, 4:7, 4:33]	[4:7, 4:33]	1.00	1.00
88	Yuharrifunah	مَنْ وَفَّرَ حُي	[2:75]	[4:46, 5:13, 5:41, 2:75]	0.00	0.25
89	Basing Syadid	بِأَسْ شَدِيدٍ	[17:5, 27:33, 48:16]	[17:5, 27:33, 48:16, 18:2]	1.00	1.00
90	I so'iqoh	عُقُوعِ أَصْلًا	[2:55, 4:153, 51:44]	[24:58, 2:55, 4:153, 41:13, 41:17, 51:44, 3:55, 3:59, 21:74, 17:92, 2:34, 2:177, 2:248, 3:42, 3:45, 3:52, 3:124, 4:97, 4:166, 6:93, 6:111, 7:11, 7:143, 8:12, 13:13, 16:2, 16:49, 17:61, 18:50, 20:116, 21:35, 23:24, 35:1, 39:68, 41:14, 43:60, 74:31, 2:187, 42:13, 65:4, 2:217, 4:3, 5:3, 5:45, 5:60, 5:112, 7:157, 24:62, 33:19, 49:11, 57:10, 6:125, 24:37, 30:48, 9:18, 11:12, 20:130, 24:61, 5:2, 2:246, 3:13, 5:12]	1.00	0.00

91	Syafa'ah	مَّة عَافَشْ	[2:48, 2:123, 2:254]	[4:85, 20:109, 34:23, 74:48, 2:48, 2:123, 2:254, 19:87, 39:44, 43:86, 36:23, 53:26, 49:9, 12:84, 54:29, 7:175, 10:90, 15:18, 37:10, 87:9, 4:24, 7:38, 7:138, 22:44, 57:27, 33:50, 59:7, 2:187, 2:253, 4:19, 6:165, 7:155, 2:229, 2:259, 7:28, 9:18, 10:98, 11:81, 12:42, 12:107, 13:17, 16:45, 23:44, 33:67, 42:40, 43:54, 48:10, 59:2, 65:6, 4:153, 24:13, 2:234, 2:158, 3:103, 4:12, 4:23, 4:128, 30:48, 47:18, 2:184, 2:185, 2:282, 2:283, 3:193, 4:97, 4:102, 5:3, 6:89, 9:5, 9:11, 18:62, 20:64, 20:88, 20:121, 21:79, 24:33, 24:54, 26:187, 27:44, 28:15, 28:76, 58:4, 58:12, 60:10, 64:12, 73:16, 2:63, 2:93, 7:53, 27:40, 31:12, 4:15, 2:233, 4:25, 4:34, 4:81, 18:77, 8:66, 2:249, 2:258, 3:167, 5:110, 7:95, 10:3, 33:53, 22:36, 27:92, 29:56]	1.00	0.00
92	Bisuroh	قَرُوسِب	[2:23, 10:38]	[2:23, 10:38, 82:8, 30:13, 68:41, 57:13, 22:15, 6:137, 12:53]	1.00	1.00

93	Wa anzal	لَزْنَ أُو	[2:22, 2:213, 3:3, 3:4, 4:113, 9:26, 14:32, 20:53, 27:60, 33:26, 39:6, 4:174, 5:48, 16:44, 23:18, 24:1, 25:48, 31:10, 57:25, 78:14, 29:51, 8:41, 2:231, 3:154, 2:59, 15:90, 16:64, 20:2, 22:5, 36:28, 39:41, 41:39, 13:37, 20:113, 22:16, 29:47, 2:90, 2:91, 2:164, 2:170, 2:174, 4:61, 4:166, 5:45, 5:47, 5:49, 5:104, 6:91, 6:93, 9:97, 10:59, 12:40, 16:24, 16:30, 17:102, 22:63, 23:24, 31:21, 35:27, 36:15, 39:21, 41:14, 42:15, 45:5, 47:9, 48:18, 48:26, 53:23, 2:41, 2:159, 3:53, 4:105, 4:153, 5:44, 7:57, 10:94, 12:2, 15:22, 26:65, 27:53, 28:24, 39:2, 44:3, 50:44, 97:1, 29:33, 18:1, 3:7, 7:26, 24:46, 30:35, 58:5, 4:136, 6:99, 6:114, 13:17, 16:10, 16:65, 42:17, 48:4, 65:10, 2:6, 2:50, 2:99, 6:8, 6:155, 7:64, 7:83, 10:24, 14:44, 17:105, 18:45, 21:9, 21:50, 27:57, 29:15, 29:24, 36:10, 40:18, 56:69, 59:21, 64:8, 65:5, 7:63, 7:69, 38:4, 7:143, 7:185, 23:29, 43:17, 3:75, 3:160, 4:57, 5:58, 7:146, 7:165, 11:116, 14:6, 20:80, 33:37, 41:12, 58:12, 64:9, 7:141, 12:72, 2:275, 3:185, 12:38, 33:53, 2:196, 3:15, 5:60, 10:54, 18:74, 18:82, 20:88, 23:27, 42:45, 9:100, 33:72, 16:85, 20:97, 9:36]	1.00	1.00	
94	Bilmawadah	فُدُومَ اب	[60:1]	[60:1, 42:23, 2:233, 2:236, 4:34, 5:106, 2:177, 5:110]	1.00	1.00

95	Muhajirot	يٰۤاَرۡجٰهُمۡ	[60:10]	[60:10, 4:100, 9:100, 9:117, 24:22, 4:89, 6:92]	1.00	1.00
96	Walayaznin	وَلَا يَزۡنِیۡنَ	[60:12]	[60:12]	1.00	1.00
97	Bibuhtan	یۡنۡاۡتۡهَبِیۡبَ	[60:12]	[60:12]	1.00	1.00
98	Wa a'annah	مِّنۡ اَعۡاُو	[25:4]	[60:1, 3:61, 4:93, 2:160, 48:6, 10:41, 11:72, 25:18, 43:70, 8:28, 18:21, 22:16, 3:81, 9:40, 10:90, 16:62, 39:6, 8:27, 2:170, 31:21, 34:33, 4:25, 5:3, 6:19, 6:56, 7:155, 10:15, 33:64, 2:213, 2:266, 3:99, 4:43, 4:46, 6:6, 7:171, 13:22, 14:44, 16:125, 23:19, 27:14, 27:60, 32:27, 33:57, 36:34, 47:23, 53:32, 57:25, 9:100, 47:15, 18:57, 66:3, 7:71, 20:134, 28:47, 60:4, 73:20, 4:23, 7:160, 22:11, 28:55, 5:116, 3:195, 5:12, 18:34, 42:15, 5:2, 2:217, 3:15, 4:24, 6:141, 7:157, 47:4, 2:220, 3:103, 4:102, 6:70, 7:83, 8:42, 9:12, 9:70, 9:111, 11:88, 34:16, 34:46, 40:8, 48:11, 48:26, 58:22, 60:10, 7:44, 11:108, 29:33, 6:99, 41:44, 59:9, 10:88, 2:143, 2:282, 4:161, 7:22, 29:32, 4:153, 17:83, 41:51, 2:260, 4:11, 3:179, 6:68, 7:46, 18:79, 2:25, 4:16, 4:57, 4:122, 10:9, 14:23, 18:82, 22:14, 22:23, 29:58, 31:20, 46:15, 47:12, 65:11, 85:11, 3:97, 16:101, 17:60, 30:9, 29:10, 4:92, 29:41, 28:82, 2:61, 3:7, 10:104, 48:17, 45:25]	0.00	0.00
99	Masalanil kaum	مَتَّٰلَاۤ اَلۡقَوۡمِ	[7:177]	[6:144, 2:264]	0.00	0.00
100	Musaytirun	نَوۡرۡطِیۡصۡحٰلَا	[52:37]	[52:37, 5:6]	1.00	1.00
Rata-rata					0.94	0.73

Appendix 3 - List of queries and test results for original readings in this study (Lafzi +)

No	Query	Arabic Text	Gold Standard	Result of the System	Recall	AP
1	Ghisyawatu	عَشَوَةٌ	[2:7]	[2:7, 45:23, 53:26, 24:35, 9:24, 2:233, 24:21]	1.00	1.00
2	Wal hijarotu	وَالْحِجَارَةُ	[2:24, 66:6]	[2:24, 66:6]	1.00	1.00
3	Mutohharotu	مُطَهَّرَةٌ	[2:25, 3:15, 4:57]	[2:25, 3:15, 4:57, 45:35, 28:57, 18:31, 47:15]	1.00	1.00
4	Kholifatan	خَلِيفَةٍ	[2:30, 38:26]	[2:30, 38:26, 3:154, 9:122, 2:282, 22:5, 9:83]	1.00	1.00
5	Tatlunal kitaba	الْكِتَابِ	[2:44]	[2:44, 2:113]	1.00	1.00
6	Baqorotu	بَقْرَةٌ	[2:68, 2:69, 2:71]	[2:68, 2:69, 2:71, 2:67, 12:43, 12:46, 2:70, 12:80, 48:25, 6:91, 2:266, 3:41, 9:126, 13:6, 17:60, 24:1, 40:39, 53:32, 73:20, 2:221, 2:282, 5:27, 23:27, 8:4, 4:77]	1.00	1.00
7	Qoswatan	قَسْوَةٌ	[2:74]	[2:74, 49:2]	1.00	1.00
8	Ma'dudatan	مَدُّدَاتٍ	[2:80]	[2:80, 2:184, 2:203, 2:230]	1.00	1.00
9	Ikhrojuhumi	إِخْرَاجُهُمْ	[2:85]	[2:85, 2:217]	1.00	1.00
10	Qudusi	قُدُسٍ	[2:87, 2:253, 5:110, 16:102, 62:1]	[2:87, 2:253, 5:110, 16:102, 62:1]	1.00	1.00
11	Wazaujihi	وَزَوَّجِهِ	[2:102]	[2:102, 2:35, 7:19, 7:189]	1.00	1.00
12	Warohmatun	وَرَحْمَتِهِ	[2:157, 2:178, 3:157, 6:157, 7:154, 7:203, 9:61, 10:57, 17:82, 27:77, 43:32, 45:20, 2:64, 4:83, 4:113, 24:10, 24:14, 24:20, 24:21, 7:156, 12:111, 30:36, 57:13, 36:11, 5:3]	[2:178, 3:157, 6:157, 2:157, 7:154, 7:203, 9:61, 10:57, 17:82, 27:77, 43:32, 45:20, 2:64, 4:83, 4:113, 24:10, 24:14, 24:20, 24:21, 7:156, 12:111, 30:36, 57:13, 36:11, 5:3]	1.00	0.44
13	Qori'atun	قُرْآنٍ	[13:31]	[13:31, 4:4, 2:259, 4:31]	1.00	1.00
14	Abwabiha	أَبْوَابِهَا	[2:189]	[2:189, 39:71, 12:23, 16:29, 39:72, 40:76]	1.00	1.00
15	Nusuki	نُسُكٍ	[2:196, 6:162]	[2:196, 6:162]	1.00	1.00

16	Kaamilatun	كاملّة	[2:196]	[2:196, 88:3, 2:233, 2:188, 2:286, 7:138, 10:71, 57:10, 64:7, 5:64, 2:282, 4:102, 5:68, 9:36, 24:2, 47:15, 2:259, 12:66]	1.00	1.00
17	Fariidota	فريضة	[2:236, 2:237, 4:11, 4:24, 9:60]	[2:236, 2:237, 4:11, 4:24, 9:60, 2:184, 2:185, 4:102, 9:37, 74:31, 5:6, 48:29, 9:42]	1.00	1.00
18	As haabunari	اصحاب النار	[59:20, 7:50, 2:39, 2:81, 2:217, 2:257, 2:275, 3:116, 7:36, 7:50, 10:27, 13:5, 40:6, 40:43, 58:17, 59:20, 64:10]	[59:20, 7:50, 2:39, 2:81, 2:217, 2:257, 2:275, 3:116, 7:36, 10:27, 13:5, 58:17, 64:10, 40:6, 40:43, 5:29, 7:44]	1.00	1.00
19	Arbaaban	اربابا	[3:64, 3:80, 9:31]	[3:80, 3:64, 9:31]	1.00	0.33
20	Mutafarriqotin	متفرقة	[12:67]	[12:67, 7:30]	1.00	1.00
21	Tuhibbuna	تحيبون	[3:31, 3:92, 3:152, 7:79, 24:22, 75:20, 89:20, 3:119, 61:13, 3:188, 9:108, 24:19, 59:9, 76:27, 2:165, 20, 3:119, 61:13]	[3:31, 3:92, 3:152, 7:79, 24:22, 75:20, 89:20, 3:119, 61:13, 3:188, 9:108, 24:19, 59:9, 76:27, 2:165, 5:54, 2:222, 6:141, 61:4]	1.00	1.00
22	Tauroti	توراة	[3:50, 3:93, 5:46, 7:157, 9:111, 48:29, 61:6, 3:48, 5:110, 3:3, 5:66, 5:68, 3:65, 5:43, 5:44, 24:31, 24:58, 33:13, 62:5, 35:32]	[3:50, 3:93, 5:46, 7:157, 9:111, 48:29, 61:6, 3:48, 5:110, 3:3, 5:66, 5:68, 3:65, 5:43, 5:44, 24:31, 24:58, 33:13, 62:5, 35:32]	1.00	1.00
23	Azilatun	اذلة	[3:123]	[3:123, 7:152, 10:26, 23:60, 70:44, 2:196, 9:124, 47:20, 53:32, 7:150, 20:109, 5:64, 6:157, 12:51, 2:255, 6:124, 4:11, 4:162, 24:63, 4:83]	1.00	1.00
24	Mudo'afatan	مضعفة	[3:130]	[3:130, 2:282, 22:5]	1.00	1.00
25	Jaahilliyati	جاهلية	[48:26, 3:154, 5:50, 33:33]	[48:26, 3:154, 5:50, 33:33, 31:31, 6:35, 4:75, 8:72]	1.00	1.00

26	Kulubikum	قُلُوبِكُمْ	[3:103, 3:154, 6:46, 8:11, 8:70, 33:51, 33:53, 48:12, 49:7, 49:14]	[33:53, 3:154, 8:70, 33:51, 48:12, 49:7, 49:14, 3:103, 6:46, 8:11, 8:12, 2:93, 3:167, 48:11, 48:26, 74:31, 4:176, 2:282, 2:225, 46:9, 7:172, 2:88, 4:170, 22:54]	1.00	0.50
27	Aqrobuna	أَقْرَبُونَ	[4:7, 4:33]	[4:7, 4:33, 2:237, 3:167, 4:11, 17:57, 2:187, 73:20]	1.00	1.00
28	Untsayaini	أَنْتَيْنِ	[4:11, 4:176, 6:143, 6:144]	[4:11, 4:176, 6:143, 6:144]	1.00	1.00
29	Mimmataroktum	مِمَّا تَرَكْتُمْ	[4:12]	[4:12, 23:100, 2:248, 12:37, 59:5, 4:102, 2:61, 24:61, 4:92, 2:282, 5:106]	1.00	1.00
30	Baynannaasi	بَيْنَ النَّاسِ	[2:213, 2:224, 3:140, 4:58, 4:105, 4:144, 38:26]	[5:25, 7:89, 42:15, 60:4, 2:213, 2:224, 3:140, 4:58, 4:105, 4:114, 38:26, 17:75, 32:14, 34:26, 30:47, 2:214, 5:14, 8:48, 11:94, 3:112, 5:49, 10:92, 14:36, 14:37, 29:10, 30:8, 35:28, 4:141, 28:20, 5:26, 46:15, 2:102, 3:97, 3:103, 7:160, 12:38, 12:100, 19:64, 66:8, 4:92, 8:72, 10:45, 38:27, 48:29, 10:19, 2:61, 5:106, 20:40, 10:22, 5:18, 5:32, 17:60, 29:25]	0.86	0.00
31	Kulubahum qosiyatan	قَسِيَّةٍ	[5:13]	[5:13]	1.00	1.00
32	Magluulatun	مَعْلُولَةٌ	[5:64]	[5:64, 4:171]	1.00	1.00
33	Muqtasidatun	مُقْتَصِدَةٌ	[5:66]	[5:66]	1.00	1.00
34	Siddiqotun	صِدِّيقَةٌ	[5:75]	[5:75, 5:64, 5:119]	1.00	1.00
35	Tahriru rokobatin	رَقَبَةٍ	[58:3, 4:92, 5:89]	[5:89, 4:92, 58:3]	1.00	0.50
36	Asnaman alihatan	عَالِهَةٍ	[6:74]	[6:74, 11:40, 6:19, 42:23, 48:29, 2:282]	1.00	1.00

37	Sohibatun	صَلْحِبَةٌ	[6:101]	[6:101, 72:3, 70:12, 80:36, 2:156, 4:72, 5:106, 29:52, 2:102, 2:178, 4:92, 8:60, 28:83]	1.00	1.00
38	Waroqil jannati	وَرَقِ الْجَنَّةِ	[7:22, 20:121]	[7:22, 20:121]	1.00	1.00
39	As habul jannati	أَصْحَابُ الْجَنَّةِ	[2:82, 7:42, 7:44, 10:26, 11:23, 25:24, 46:14, 59:20]	[59:20, 7:44, 2:82, 7:42, 10:26, 11:23, 25:24, 46:14, 7:46, 7:50]	1.00	0.00
40	Khofiyatu	خُوفِي فَأَخ	[69:18]	[11:86, 4:127]	0.00	0.00
41	Fakatsarokum	فَكَاثَرَكُم	[7:86]	[7:86, 12:81, 9:25, 3:152, 2:266, 11:27, 22:36, 7:129, 5:89]	1.00	1.00
42	Goyruhu	غَيْرُهُ	[7:59, 7:65, 7:73, 7:85, 11:50, 11:61, 11:84, 23:23, 23:32]	[7:59, 7:65, 7:73, 7:85, 11:50, 11:61, 11:84, 23:23, 23:32, 7:131, 9:3, 11:46, 11:65, 23:6, 70:30, 4:25, 12:36, 12:80, 22:40, 9:39, 22:31]	1.00	1.00
43	Lahum alihatun	لَهُمْ عَالِيَهُ	[7:138, 21:43]	[7:138, 21:43, 11:101, 35:7, 2:277, 4:18, 4:34, 4:102, 7:73, 24:33, 4:173, 2:282, 39:71, 3:152, 4:11, 2:217]	1.00	1.00
44	Rozaqnakum	رَزَقْنَاكُمْ	[2:57, 2:172, 2:254, 7:160, 20:81, 30:28, 63:10]	[2:57, 2:172, 2:254, 7:160, 20:81, 30:28, 63:10, 49:13, 13:22, 35:29, 6:148]	1.00	1.00
45	Nuzzilat surotun	نُزُولِ السُّورَةِ	[47:20]	[47:20, 9:86, 9:124, 9:127]	1.00	1.00
46	Yuglabuuna	يُغْلَبُونَ	[8:36]	[8:36, 3:12]	1.00	1.00

47	Maulaakum	مَوْلَاكُمْ	[3:150, 8:40, 22:78, 57:15, 66:2, 3:173]	[3:150, 8:40, 22:78, 57:15, 66:2, 3:173, 9:101, 46:27, 67:13, 24:29, 68:28, 2:233, 3:66, 4:5, 5:6, 6:151, 11:27, 11:78, 17:31, 22:30, 27:46, 41:26, 47:30, 47:38, 57:10, 60:4, 65:6, 2:229, 8:68, 11:116, 24:47, 2:64, 2:235, 7:43, 11:12, 25:7, 57:20, 58:1, 2:275, 5:107, 9:120, 16:86, 28:48, 4:25, 6:94, 56:57, 34:31, 4:11, 64:14, 63:10, 2:177, 4:91, 5:18, 47:4, 7:38, 64:16, 4:78]	1.00	1.00
48	Wazuhuuruhum	وَّظُهُورُهُمْ	[9:35]	[9:35, 9:5]	1.00	1.00
49	Kholidina fiiha abadan	خَالِدِينَ فِيهَا أَبَدًا	[4:57, 4:122, 4:169, 5:119, 9:22, 9:100, 33:65, 64:9, 65:11, 72:23, 98:8]	[9:22, 9:100, 64:9, 65:11, 4:57, 4:122, 4:169, 5:119, 33:65, 72:23, 98:8, 6:128, 58:22]	1.00	0.14
50	Azabal akhiroti	عَذَابَ الْآخِرَةِ	[11:103]	[11:103, 34:8, 3:145, 41:16, 5:33, 57:20, 59:3, 68:33, 3:56, 9:74, 24:14, 24:19, 24:23, 33:57, 2:201, 4:77, 17:10, 2:126]	1.00	1.00
51	Yatadabarunal Qur'ana	يَتَذَكَّرُونَ الْفُرَانَ	[4:82, 47:24]	[4:82, 47:24]	1.00	1.00
52	Kama Daholuhu	كَمَا دَخَلُوهُ	[17:7]	[17:7, 12:68, 5:23, 9:69, 16:48, 2:282, 2:233]	1.00	1.00

53	Faulaika	فَاُولَٰئِكَ	[2:81, 2:160, 2:217, 2:229, 2:275, 3:82, 3:94, 4:17, 4:69, 4:97, 4:99, 4:124, 4:146, 5:44, 5:45, 5:47, 7:8, 7:9, 7:178, 8:75, 9:23, 17:19, 17:71, 19:60, 20:75, 22:57, 23:7, 23:102, 23:103, 24:13, 24:52, 24:55, 25:70, 30:16, 30:39, 34:37, 40:40, 42:41, 49:11, 59:9, 60:9, 63:9, 64:16, 70:31, 72:14, 73:5, 2:5, 2:39, 2:114, 2:157, 2:177, 3:10, 3:90, 3:104, 3:105, 3:114, 3:116, 5:10, 5:43, 5:60, 5:86, 6:70, 7:36, 7:42, 7:179, 8:37, 9:10, 9:18, 9:20, 9:69, 9:88, 13:5, 13:22, 16:105, 16:108, 21:101, 22:51, 24:4, 24:47, 24:51, 24:62, 25:34, 29:23, 30:38, 31:5, 34:5, 34:38, 39:18, 49:7, 57:10, 57:19, 64:10, 98:6, 18:15, 43:88, 44:22, 4:113, 7:101, 11:12, 29:47, 42:7, 47:20, 60:4, 2:31, 4:63, 6:89, 8:12, 11:18, 16:89, 17:40, 25:21, 28:63, 34:40, 41:44, 58:17, 66:4, 23:24, 43:53, 43:60, 2:235, 6:151, 28:82]	1.00	1.00	
54	Alayhina Junahun	عَلَيْهِنَّ جُنَاحٌ	[24:60]	[24:60, 33:55, 24:58, 2:282, 33:37, 3:154, 24:31, 33:53]	1.00	1.00
55	Ayatin Bayinatin	آيَاتٍ بَيِّنَاتٍ	[2:99, 17:101, 22:16, 24:1, 57:9, 58:5]	[17:101, 2:99, 2:211, 22:16, 24:1, 57:9, 58:5, 65:1, 20:133, 6:157, 65:11, 4:92, 22:5, 24:58, 16:92]	1.00	0.00
56	Fahtalato bihi	فَاخْتَلَطَ بِهِ	[10:24, 18:45]	[10:24, 18:45, 6:146, 2:286, 5:48, 2:213, 3:103, 4:36]	1.00	1.00
57	Wahiya howiyatun	وَهِيَ خَاوِيَةٌ	[2:259, 18:42]	[18:42, 2:259, 22:45]	1.00	0.00

58	Bilazi Halaqoka	بِالَّذِي خَلَقَكَ	[18:37]	[18:37, 17:99, 6:2, 7:189, 40:67, 41:9, 82:7, 6:1, 30:40, 4:1, 11:7, 25:54, 26:184, 7:54, 10:3, 7:43, 2:61, 60:1, 2:259, 7:156]	1.00	1.00
59	Falyanzur	فَلْيَنْظُرْ	[18:19, 22:15]	[22:15, 18:19, 80:24, 86:5, 2:210, 6:158, 7:53, 16:33, 35:43, 43:66, 47:18]	1.00	0.00
60	Waqulu hitotun	وَقُولُوا حِطَّةً	[2:58, 7:161]	[2:58, 7:161]	1.00	1.00
61	Toyibati	تَأْتِي بِطَا	[7:157, 8:26, 10:93, 16:72, 17:70, 23:51, 40:64, 45:16]	[14:24, 2:57, 2:172, 2:267, 4:160, 5:87, 7:32, 7:157, 7:160, 8:26, 10:22, 10:93, 16:72, 17:70, 20:81, 23:51, 40:64, 45:16, 46:20, 24:26, 66:5, 3:38, 5:4, 5:5, 9:72, 16:97, 24:61, 34:15, 61:12, 2:168, 5:6, 7:58]	1.00	0.00
62	Yamuruhum bilma'rufi	يَأْمُرُهُم بِالْمَعْرُوفِ	[7:157]	[7:157, 2:232, 2:178, 2:233, 3:110, 9:71, 2:236, 4:25, 9:67]	1.00	1.00
63	Idz ayatuka biruhilkudusi	إِذْ أَيْدِيكَ بِرُوحِ الْفُؤَادِ	[5:110]	[5:110]	1.00	1.00
64	Fayuksimani	نَأْمُرُ بِقِيَمَاتٍ	[5:106, 5:107]	[5:107, 5:106]	1.00	0.00
65	Lahwan anfadu	لَهُوَ انْقَضُوا	[62:11]	[62:11, 2:85, 7:22]	1.00	1.00
66	Yastaftunaka	لَنْ تُنْفِتَسِي	[4:176]	[4:127, 4:176, 2:89]	1.00	0.00
67	Minhu wafadlin	مَنْهُ وَقَضَل	[4:175]	[4:175, 2:268, 3:152, 2:282, 35:32]	1.00	1.00
68	Wama qotaluhu	وَمَا قَتَلُوهُ	[4:157, 4:157]	[4:157, 3:183, 6:140, 2:249, 8:17, 33:53, 2:264, 9:74, 2:217]	1.00	1.00
69	Waqotlihimul ambiya	وَقَتْلِهِمُ الْأَنْبِيَاءَ	[4:155]	[4:155]	1.00	1.00
70	Fisabti	فِي السَّبْتِ	[2:65, 4:154, 7:163]	[2:65, 4:154, 7:163, 28:19, 4:47, 5:35, 60:1, 73:20, 4:94, 57:27]	1.00	1.00

71	Wayuriduna	نَوْدِيْرِيُو	[4:44, 4:150, 4:150]	[4:150, 4:44, 4:60, 4:91, 28:79, 28:83, 30:38, 9:32, 48:15, 4:27, 8:7, 33:13, 3:152, 14:10, 8:67, 33:33, 35:10, 5:41, 22:25]	1.00	0.00
72	Wayaquluna	نَوْلُوقَيُو	[3:75, 3:78, 3:78, 4:46, 4:51, 4:81, 4:150, 7:169, 9:61, 10:18, 10:20, 10:48, 17:51, 17:108, 18:22, 21:38, 24:47, 25:22, 27:71, 32:28, 34:29, 36:48, 37:36, 58:8, 67:25, 68:51, 21:46, 5:73, 11:8, 17:43, 2:26, 2:79, 3:16, 3:154, 4:75, 9:65, 10:31, 16:32, 17:42, 20:104, 20:130, 23:85, 23:87, 23:89, 24:26, 25:65, 25:74, 29:10, 29:61, 29:63, 31:25, 33:13, 38:17, 39:38, 42:44, 43:9, 43:87, 46:11, 48:11, 48:15, 50:39, 50:45, 58:2, 63:7, 73:10, 33:66, 59:11, 28:82, 6:25, 3:7, 3:167, 5:41, 5:52, 5:83, 6:33, 11:13, 11:18, 11:35, 16:27, 26:226, 29:55, 37:167, 42:24, 47:20, 56:47, 63:8, 66:8, 2:61, 2:140, 4:43, 6:148, 7:28, 25:17, 28:62, 28:65, 28:74, 40:47, 8:39, 2:174, 2:275, 9:34, 25:20, 3:49, 17:47, 33:4, 40:28, 3:185, 4:78, 4:91, 25:7, 33:37, 4:102, 74:31, 2:58, 2:91, 4:11, 22:72, 2:282, 11:78, 2:74, 4:176]	[18:49, 18:52, 3:75, 3:78, 4:46, 4:51, 4:81, 4:150, 7:169, 9:61, 10:18, 10:20, 10:48, 17:51, 17:108, 18:22, 21:38, 24:47, 25:22, 27:71, 32:28, 34:29, 36:48, 37:36, 58:8, 67:25, 68:51, 21:46, 5:73, 11:8, 17:43, 2:26, 2:79, 3:16, 3:154, 4:75, 9:65, 10:31, 16:32, 17:42, 20:104, 20:130, 23:85, 23:87, 23:89, 24:26, 25:65, 25:74, 29:10, 29:61, 29:63, 31:25, 33:13, 38:17, 39:38, 42:44, 43:9, 43:87, 46:11, 48:11, 48:15, 50:39, 50:45, 58:2, 63:7, 73:10, 33:66, 59:11, 28:82, 6:25, 3:7, 3:167, 5:41, 5:52, 5:83, 6:33, 11:13, 11:18, 11:35, 16:27, 26:226, 29:55, 37:167, 42:24, 47:20, 56:47, 63:8, 66:8, 2:61, 2:140, 4:43, 6:148, 7:28, 25:17, 28:62, 28:65, 28:74, 40:47, 8:39, 2:174, 2:275, 9:34, 25:20, 3:49, 17:47, 33:4, 40:28, 3:185, 4:78, 4:91, 25:7, 33:37, 4:102, 74:31, 2:58, 2:91, 4:11, 22:72, 2:282, 11:78, 2:74, 4:176]	1.00	0.06
73	Khosyi'ina	نَيْعَشَاخ	[3:199, 21:90, 42:45]	[42:45, 3:199, 33:35, 16:69, 22:75, 5:67, 2:45, 2:65, 7:166, 21:90, 41:25, 46:18, 20:94, 2:124, 39:15, 2:109, 2:115, 4:58, 7:156, 18:31, 22:65, 41:39, 13:6, 2:255, 7:176, 60:4, 27:44, 39:10, 11:47, 2:247, 58:1, 2:196, 3:156, 4:25]	1.00	0.00

74	Subhanaka	لَكُنْ أَحْسَبُ	[2:32, 3:191, 5:116, 7:143, 10:10, 21:87, 24:16, 34:41, 17:93, 23:91, 28:68, 36:36, 59:23, 68:29, 16, 25:18, 34:41]	[25:18, 2:32, 3:191, 5:116, 7:143, 10:10, 21:87, 24:16, 34:41, 17:93, 23:91, 28:68, 36:36, 59:23, 68:29, 2:116, 4:171, 6:100, 19:35, 21:26, 30:40, 39:67]	1.00	0.11
75	Wayatafakaruna	نَوْرُكَفَتَيَوِ	[3:191]	[3:191, 7:176, 10:24, 13:3, 16:11, 16:69, 30:21, 39:42, 45:13, 59:21, 2:219, 2:266, 30:8, 2:282]	1.00	1.00
76	Fanabazuhu	مُؤَذِّبَنَف	[3:187]	[3:187, 2:101]	1.00	1.00
77	Awliya'ahu	هَءَايِلْوَ	[3:175, 8:34]	[3:175, 8:34, 45:10, 3:28, 4:139, 5:51, 7:27, 7:30, 10:62, 4:89, 25:18, 18:50, 17:97, 42:6, 9:23, 11:20, 13:16, 39:3, 42:9, 42:46, 60:1, 6:121, 6:128, 8:72, 9:71, 2:257, 59:2, 5:6]	1.00	1.00
78	Wayastabshiruna	نَوْرُشَبَاتْسَيَوِ	[3:170]	[3:170, 3:171, 9:124, 30:48, 39:45, 9:111]	1.00	1.00
79	Fabidznillahi	فَيَاذِنَ اللّٰهَ	[3:166, 59:5]	[3:166, 59:5, 2:102, 3:145, 10:100, 13:38, 14:11, 40:78, 58:10, 64:11, 2:97, 3:49, 4:64, 2:249, 8:66, 35:32, 2:213]	1.00	1.00
80	Fiukhrokum	فِيْ اٰخِرَاكُمْ	[3:153]	[3:153, 6:19, 3:13, 2:282, 7:38]	1.00	1.00
81	Tus'iduna	نَوْدُخْصَتْ	[3:153]	[3:153]	1.00	1.00
82	Miqdaruhu	هَرَادِقِم	[32:5, 70:4]	[32:5, 70:4]	1.00	1.00
83	Khoyrutma'anna	حَيِّرْ اَطْمَانَ	[22:11]	[22:11]	1.00	1.00
84	Katsiratun	كَثِيْرَةٌ	[4:94, 23:19, 23:21, 43:73]	[43:73, 4:94, 15:41, 23:19, 23:21, 37:48, 38:52, 55:56, 79:12, 9:25, 9:24, 5:64, 5:68, 6:91, 33:21, 5:66, 2:196, 22:11, 27:13, 35:18, 36:11]	1.00	0.00
85	sawaa'al akifu	سَوَاءُ الْعَاكِفُ	[22:25]	[22:25, 2:125, 2:187, 4:77, 3:112]	1.00	1.00

86	Muhsinina	مُحْسِنِينَ	[4:24, 5:5]	[4:24, 5:5, 9:91, 7:56, 12:36, 12:78, 39:58, 2:58, 2:195, 2:236, 3:134, 3:148, 5:13, 5:85, 5:93, 6:84, 7:161, 9:120, 11:115, 12:22, 12:56, 12:90, 22:37, 28:14, 29:69, 31:3, 37:80, 37:105, 37:110, 37:121, 37:131, 39:34, 46:12, 51:16, 77:44, 4:25]	1.00	1.00
87	Wal aqrobuna	وَالْأَقْرَبُونَ	[4:7, 4:7, 4:33]	[4:7, 4:33, 2:215, 4:135, 16:77, 22:13, 2:187, 73:20, 2:282]	1.00	1.00
88	Yuharrifunahu	مَنْ وَفَّرَ حُجِّي	[2:75]	[2:75, 4:46, 5:13, 5:41, 9:42, 6:141]	1.00	1.00
89	Basing Syadidin	بِأَسْ شَدِيدِ	[17:5, 27:33, 48:16]	[17:5, 48:16]	0.67	1.00
90	I so'iqotu	عَقْرُ أَصْلًا	[2:55, 4:153, 51:44]	[2:55, 4:153, 41:17, 51:44, 24:58, 2:248, 3:42, 3:45, 4:97, 4:166, 6:93, 13:13, 16:49, 21:35, 2:34, 7:143, 20:116, 35:1, 2:187, 65:4, 2:217, 4:3, 5:3, 5:45, 49:11, 57:10, 6:125, 24:37, 30:48, 20:130, 5:2, 2:246, 3:13]	1.00	1.00

91	Syafa'atun	سَفَاةُ أَفْشٍ	[2:48, 2:123, 2:254]	[74:48, 20:109, 34:23, 2:48, 2:123, 2:254, 39:44, 36:23, 53:26, 4:85, 19:87, 43:86, 4:24, 4:81, 15:85, 4:128, 4:4, 9:36, 12:65, 7:38, 7:138, 18:96, 39:19, 65:6, 2:187, 29:56, 3:7, 6:83, 12:19, 61:14, 2:253, 4:12, 8:66, 12:30, 12:51, 13:31, 39:10, 2:259, 2:266, 4:25, 6:157, 7:155, 10:18, 10:98, 12:107, 13:17, 23:44, 24:33, 39:6, 42:40, 47:18, 59:2, 60:10, 4:153, 20:126, 2:102, 14:10, 35:18, 2:178, 2:185, 2:196, 2:272, 2:273, 2:282, 2:283, 4:72, 4:94, 4:97, 4:102, 4:171, 5:3, 5:26, 5:64, 8:60, 18:42, 20:20, 20:121, 27:44, 41:34, 2:184, 2:233, 4:34, 5:110, 30:48, 33:29, 4:23, 22:72]	1.00	0.00
92	Bisurotin	بِسْرُوتِين	[2:23, 10:38]	[2:23, 10:38, 82:8, 12:46, 57:13, 4:12, 22:15]	1.00	1.00

93	Wa anzala	لَزْنَ أَوْ	[2:22, 2:213, 3:3, 3:4, 4:113, 9:26, 14:32, 20:53, 27:60, 33:26, 39:6, 2:231, 3:154, 2:57, 7:160, 41:14, 18:1, 23:24, 2:90, 2:91, 2:164, 2:170, 2:174, 4:61, 4:166, 5:44, 5:45, 5:47, 5:49, 5:104, 6:91, 6:93, 9:97, 10:59, 12:40, 16:24, 16:30, 17:102, 31:21, 36:15, 42:15, 45:5, 47:9, 48:18, 48:26, 53:23, 4:174, 5:48, 8:41, 16:44, 23:18, 24:1, 25:48, 31:10, 57:25, 78:14, 3:7, 29:51, 2:59, 15:90, 36:28, 16:64, 20:2, 22:5, 39:41, 41:39, 6:99, 6:114, 16:10, 16:65, 48:4, 13:37, 20:113, 22:16, 27:53, 29:47, 4:136, 13:17, 42:17, 65:10, 2:41, 2:159, 4:105, 4:153, 7:57, 10:94, 12:2, 15:22, 28:24, 39:2, 50:44, 65:5, 29:33, 7:26, 30:35, 43:17, 6:8, 24:46, 58:5, 2:6, 2:50, 2:99, 3:160, 6:155, 7:64, 10:24, 14:44, 17:105, 18:45, 29:15, 29:24, 36:10, 40:18, 59:21, 64:8, 7:63, 7:69, 38:4, 7:143, 7:185, 23:29, 3:75, 4:57, 5:58, 7:146, 10:54, 11:116, 14:6, 20:80, 33:37, 58:12, 7:141, 7:165, 33:53, 5:60, 2:196, 3:15, 18:74, 18:82, 20:88, 23:27, 2:275, 12:38, 9:100, 33:72, 20:97, 16:85, 42:45, 9:36]		1.00	0.00
94	Bilmawadati	رَّهْدَوْمَلْ إِب	[60:1]	[60:1]	1.00	1.00
95	Muhajirotin	تَارِجْ أُم	[60:10]	[60:10, 9:100]	1.00	1.00
96	Walayaznina	وَلَا يَزْنِين	[60:12]	[60:12, 35:1]	1.00	1.00
97	Bibuhtanin	بِنَاتْهُبِب	[60:12]	[60:12]	1.00	1.00

98	Wa a'anahu	مِّنْ أَعْوُ	[25:4]	[25:4, 4:93, 48:6, 8:24, 22:6, 53:50, 9:114, 29:32, 33:57, 28:82, 47:23, 63:4, 7:83, 18:21, 3:81, 2:275, 22:16, 4:66, 2:235, 7:157, 34:33, 28:13, 46:15, 66:3, 4:135, 5:49, 6:6, 8:7, 12:90, 58:22, 2:213, 2:266, 7:160, 8:66, 8:72, 12:51, 33:37, 65:6, 3:195, 9:100, 18:34, 11:40, 9:12, 12:8, 4:25, 16:101, 48:29, 60:4, 60:10, 3:152, 18:50, 33:53, 5:6, 18:57, 48:11, 41:44, 4:92, 4:102, 6:71, 33:51, 2:282, 73:20]	1.00	1.00
99	Masalanil kaumu	مَثَلًا الْقَوْمِ	[7:177]	[7:177, 3:140, 12:87, 46:35, 7:176, 66:11, 5:2, 2:264, 7:137, 5:95, 28:25, 39:29, 49:11, 4:90, 7:160]	1.00	1.00
100	Musaytiruna	نُورِطِيصُّمًا	[52:37]	[52:37, 5:6, 2:187]	1.00	1.00
Rata-rata					0.99	0.81

Appendix 4 - List of queries and test results for original readings in this study (Lafzi +)

No	Query	Arabic Text	Gold Standard	Result of the System	Recall	AP
1	Ghisyawatu	غَشَوَاتُ	[2:7]	[2:7]	1.00	1.00
2	Wal hijarotu	وَالْحِجَارَةُ	[2:24, 66:6]	[2:24, 66:6]	1.00	1.00
3	Mutohharotu	مُطَهَّرَةٌ	[2:25, 3:15, 4:57]	[2:25, 3:15, 4:57]	1.00	1.00
4	Kholifatan	خَلِيفَةٌ	[2:30, 38:26]	[2:30, 38:26]	1.00	1.00
5	Tatlunal kitaba	الْكِتَابِ	[2:44]	[2:44, 2:113]	1.00	1.00
6	Baqorotu	بَقْرَةٌ	[2:68, 2:69, 2:71]	[2:68, 2:69, 2:71]	1.00	1.00
7	Qoswatan	تَقْسُومَةٌ	[2:74]	[2:74, 49:2]	1.00	1.00

8	Ma'dudatan	بَدُوْدُكُمْ	[2:80]	[2:80]	1.00	1.00
9	Ikhrojuhumi	اِخْرَاجُهُمْ	[2:85]	[2:85]	1.00	1.00
10	Qudusi	قُدُسٍ	[2:87, 2:253, 5:110, 16:102, 62:1]	[2:87, 2:253, 5:110, 16:102, 62:1]	1.00	1.00
11	Wazaujihi	وَزَوَّجِهِ	[2:102]	[2:102]	1.00	1.00
12	Warohmatun	وَرَحْمَةٍ	[2:157, 2:178, 3:157, 6:157, 7:154, 7:203, 9:61, 10:57, 17:82, 27:77, 45:20]	[2:178, 3:157, 6:157, 4:83]	0.27	0.00
13	Qori'atun	قُرْآنٍ	[13:31]	[13:31]	1.00	1.00
14	Abwabiha	أَبْوَابِهَا	[2:189]	[2:189]	1.00	1.00
15	Nusuki	نُسُكٍ	[2:196, 6:162]	[2:196, 6:162]	1.00	1.00
16	Kaamilatun	كَامِلَةٍ	[2:196]	[2:196, 5:64]	1.00	1.00
17	Fariidota	فَرِيضَةٍ	[2:236, 2:237, 4:11, 4:24, 9:60]	[2:236, 2:237, 4:11, 4:24, 9:60, 2:184, 2:185]	1.00	1.00
18	As haabunari	أَصْحَابُ النَّارِ	[59:20, 7:50, 2:39, 2:81, 2:217, 2:257, 2:275, 3:116, 7:36, 7:50, 10:27, 13:5, 40:6, 40:43, 58:17, 59:20, 64:10]	[59:20, 7:50, 2:39, 2:81, 2:217, 2:257, 2:275, 3:116, 7:36, 10:27, 13:5, 58:17, 64:10, 7:44]	0.88	1.00
19	Arbaaban	أَرْبَابًا	[3:64, 3:80, 9:31]	[3:80, 9:31]	0.67	0.00
20	Mutafarriqotin	مُتَفَرِّقَةٍ	[12:67]	[12:67]	1.00	1.00

21	Tuhibbuna	تُحِبُّونَ	[3:31, 3:92, 3:152, 7:79, 24:22, 75:20, 89:20, 3:119, 61:13]	[3:31, 3:92, 3:152, 7:79, 24:22, 75:20, 89:20, 3:119, 61:13]	1.00	1.00
22	Tauroti	طُورَانِيَّةٌ	[3:50, 3:93, 5:46, 7:157, 9:111, 48:29, 61:6, 5:110, 3:65, 5:44, 24:6]	[3:50, 3:93, 5:46, 7:157, 9:111, 48:29, 61:6, 5:110, 3:65, 5:44, 24:58, 62:5]	1.00	1.00
23	Azilatun	طَّائِفَةٌ	[3:123]	[3:123, 12:51]	1.00	1.00
24	Mudo'afatan	طَّاعِفَةٌ	[3:130]	[3:130]	1.00	1.00
25	Jaahilliyati	طَّاهِلِيَّةٌ	[48:26, 3:154, 5:50, 33:33]	[48:26, 3:154, 5:50, 33:33]	1.00	1.00
26	Kulubikum	طُّلُوبِكُمْ	[3:103, 3:154, 6:46, 8:11, 8:70, 33:51, 33:53, 48:12, 49:7, 49:14]	[33:53, 3:154, 8:70, 33:51, 48:12, 49:7, 49:14, 3:103, 6:46, 8:11, 48:11, 2:93, 7:172]	1.00	0.50
27	Aqrobuna	أَقْرَبُونَ	[4:7, 4:33]	[4:7, 4:33]	1.00	1.00
28	Untsayaini	أُنْتَسَايَيْنِي	[4:11, 4:176, 6:143, 6:144]	[4:11, 6:143, 4:176, 6:144]	1.00	0.75
29	Mimmataroktum	مِمَّا تَرَكْتُمْ	[4:12]	[4:12, 12:37, 59:5, 2:282]	1.00	1.00
30	Bayannaasi	بَيْنَ النَّاسِ	[2:213, 2:224, 3:140, 4:58, 4:105, 4:114, 38:26, 5:49, 30:8, 4:141, 2:26]	[2:213, 2:224, 3:140, 4:58, 4:105, 4:114, 38:26, 5:49, 30:8, 4:141, 2:102]	0.86	0.98
31	Kulubahum qosiyatan	طَّقْسِيَّةٌ	[5:13]	[5:13]	1.00	1.00
32	Magluulatun	مَعْلُولَةٌ	[5:64]	[5:64]	1.00	1.00
33	Muqtasidatun	مُقْتَصِدَةٌ	[5:66]	[5:66]	1.00	1.00
34	Siddiqotun	صِدِّيقَةٌ	[5:75]	[5:75]	1.00	1.00

35	Tahriru rokobatin	طَرَقِبَةُ	[58:3, 4:92, 5:89]	[5:89, 58:3, 4:92]	1.00	0.00
36	Asnaman alihatan	طَاءَ الْهَيْهَ	[6:74]	[6:74]	1.00	1.00
37	Sohibatun	طَصَلِحِبَةُ	[6:101]	[6:101, 4:72, 2:102, 8:60]	1.00	1.00
38	Waroqil jannati	طَوَرَقُ الْاَجْنَةِ	[7:22, 20:121]	[7:22, 20:121]	1.00	1.00
39	As habul jannati	طَاَصْحَابُ الْاَجْنَةِ	[2:82, 7:42, 7:44, 10:26, 11:23, 25:24, 46:14, 59:20]	[59:20, 7:44, 2:82, 7:42, 10:26, 11:23, 25:24, 46:14]	1.00	0.00
40	Khofiyatu	طَوَيْفَاخُ	[69:18]	[11:86, 4:127]	0.00	0.00
41	Fakatsarokum	طَفَكَتْرَكُمْ	[7:86]	[7:86, 12:81]	1.00	1.00
42	Goyruhu	طَغَيْرُهُ	[7:59, 7:65, 7:73, 7:85, 11:50, 11:61, 11:84, 23:23, 23:32]	[7:59, 7:65, 7:73, 7:85, 11:50, 11:61, 11:84, 23:23, 23:32, 4:25]	1.00	1.00
43	Lahum alihatun	طَلَهُمُ الْاَلِهَةِ	[7:138, 21:43]	[7:138, 21:43, 11:101, 35:7, 4:34, 4:18, 4:102, 7:73, 2:217]	1.00	1.00
44	Rozaqnakum	طَرَزَقْنَاكُمْ	[2:57, 2:172, 2:254, 7:160, 20:81, 30:28, 63:10]	[2:254, 63:10, 2:57, 7:160, 2:172, 20:81, 30:28, 35:29]	1.00	0.25
45	Nuzzilat surotun	طَسُوْرَةٍ	[47:20]	[47:20]	1.00	1.00
46	Yuglabuuna	طَيُّغْلَبُوْنَ	[8:36]	[8:36]	1.00	1.00
47	Maulaakum	طَمَوْلَاكُمْ	[3:150, 8:40, 22:78, 57:15, 66:2, 3:173, 57:10, 60:4, 4:5, 2:275, 2:177, 4:91]	[3:150, 8:40, 22:78, 57:15, 66:2, 3:173, 57:10, 60:4, 4:5, 2:275, 2:177, 4:91]	1.00	1.00
48	Wazuhuruhum	طَوَظْهُوْرُهُمْ	[9:35]	[9:35]	1.00	1.00

49	Kholidina fiiha abadan	خَالِدِينَ فِيهَا أَبَدًا	[4:57, 4:122, 4:169, 5:119, 9:22, 9:100, 33:65, 64:9, 65:11, 72:23, 98:8]	[9:22, 9:100, 64:9, 65:11, 4:57, 4:122, 4:169, 5:119, 33:65, 72:23, 98:8]	1.00	0.14
50	Azabal akhiroti	عَذَابَ الْآخِرَةِ	[11:103]	[11:103, 3:145, 41:16, 57:20, 59:3, 3:56, 9:74, 33:57]	1.00	1.00
51	Yatadabarunal Qur'ana	يَتَذَكَّرُونَ الْفُرْآنَ	[4:82, 47:24]	[4:82, 47:24]	1.00	1.00
52	Kama Daholuhu	كَمَا دَخَلُوهُ	[17:7]	[17:7, 2:282]	1.00	1.00
53	Faulaika	قَاوُلِيكَ	[2:81, 2:160, 2:217, 2:229, 2:275, 3:82, 3:94, 4:17, 4:69, 4:97, 4:99, 4:124, 4:146, 5:44, 5:45, 5:47, 7:8, 7:9, 7:178, 8:75, 9:23, 17:19, 17:71, 19:60, 20:75, 22:57, 23:7, 23:102, 23:103, 24:13, 24:52, 24:55, 25:70, 30:16, 30:39, 34:37, 40:40, 49:11, 59:9, 60:9, 63:9, 64:16, 70:31, 72:14, 41:44]	[42:41, 2:81, 2:121, 2:160, 2:217, 2:229, 2:275, 3:82, 3:94, 4:17, 4:69, 4:97, 4:99, 4:124, 4:146, 5:44, 5:45, 5:47, 7:8, 7:9, 7:178, 8:75, 9:23, 17:19, 17:71, 19:60, 20:75, 22:57, 23:7, 23:102, 23:103, 24:13, 24:52, 24:55, 25:70, 30:16, 30:39, 34:37, 40:40, 49:11, 59:9, 60:9, 63:9, 64:16, 70:31, 72:14, 41:44]	1.00	0.00
54	Alayhina Junahun	عَلَيْهِنَّ جُنَاحٌ	[24:60]	[24:60, 24:58]	1.00	1.00
55	Ayatin Bayinatin	آيَاتٍ بَيِّنَاتٍ	[2:99, 17:101, 22:16, 24:1, 57:9, 58:5]	[17:101, 2:99, 2:211, 22:16, 24:1, 57:9, 58:5, 65:1, 20:133, 65:11, 24:58]	1.00	0.00

56	Fahtalato bihi	فَاخْتَلَطَ بِهِ	[10:24, 18:45]	[10:24, 18:45, 5:48]	1.00	1.00
57	Wahiya howiyatun	وَهِيَ خَاوِيَةٌ	[2:259, 18:42]	[18:42, 2:259, 22:45]	1.00	0.00
58	Bilazi Halaqoka	بِالَّذِي خَلَقَكَ	[18:37]	[18:37, 26:184]	1.00	1.00
59	Falyanzur	فَلْيَنْظُرْ	[18:19, 22:15]	[22:15, 18:19, 80:24, 86:5, 35:43]	1.00	0.00
60	Waqulu hitotun	وَقُولُوا حِطَّةً	[2:58, 7:161]	[2:58, 7:161]	1.00	1.00
61	Toyibati	تَابِيٍّ طَلَا	[7:157, 8:26, 10:93, 16:72, 17:70, 23:51, 40:64, 45:16]	[24:26, 14:24, 2:57, 2:172, 2:267, 4:160, 5:87, 7:32, 7:157, 7:160, 8:26, 10:22, 10:93, 16:72, 17:70, 20:81, 23:51, 40:64, 45:16, 46:20, 66:5, 5:5, 9:72, 24:61, 61:12]	1.00	0.00
62	Yamuruhum bilma'rufi	يَأْمُرُهُم بِالْمَعْرُوفِ	[7:157]	[7:157]	1.00	1.00
63	Idz ayatuka biruhilkudusi	إِذْ أَيْدِيكَ بَرُوحِ الْفُؤَادِ	[5:110]	[5:110]	1.00	1.00
64	Fayuksimani	نِ آمِسْ قِيْفِ	[5:106, 5:107]	[5:107, 5:106]	1.00	0.00
65	Lahwan anfadu	لَهُوَ انْقَضُوا	[62:11]	[]	0.00	0.00
66	Yastaftunaka	الْفَنُّ وَتَفْتَسِي	[4:176]	[4:127, 4:176]	1.00	0.00
67	Minhu wafadlin	مَنْهُ وَقَضَلِ	[4:175]	[4:175]	1.00	1.00
68	Wama qotaluhu	وَمَا قَتَلُوهُ	[4:157, 4:157]	[4:157, 9:74, 2:217]	1.00	1.00
69	Waqotlihimmel ambiya	وَقَتْلُهُمُ الْأَنْبِيَاءَ	[4:155]	[4:155]	1.00	1.00
70	Fisabti	فِي السَّبْتِ	[2:65, 4:154, 7:163]	[2:65, 4:154, 7:163, 60:1]	1.00	1.00
71	Wayuriduna	نَوْدِيْرِيْوِ	[4:44, 4:150, 4:150]	[4:150, 4:44, 4:60, 4:91, 9:32, 8:7, 5:41]	1.00	0.00

84	Katsiratun	كثيرة	[4:94, 23:19, 23:21, 43:73]	[43:73, 4:94, 23:21, 9:24]	0.75	0.33
85	sawaa'al akifu	سواء العاكف	[22:25]	[22:25, 2:187]	1.00	1.00
86	Muhsinina	مُحْسِنِينَ	[4:24, 5:5]	[4:24, 5:5, 9:91, 7:56, 12:36, 12:78, 39:58, 2:195, 3:134, 5:13, 5:85, 5:93, 9:120, 11:115, 12:56, 12:90, 29:69, 37:80, 37:105, 37:121, 37:131, 46:12, 51:16, 77:44]	1.00	1.00
87	Wal aqrobuna	وَالْأَقْرَبُونَ	[4:7, 4:7, 4:33]	[4:7, 4:33, 2:187]	1.00	1.00
88	Yuharrifunahu	مَنْ وَفَّرَ حُي	[2:75]	[2:75, 4:46, 5:13, 5:41]	1.00	1.00
89	Basing Syadidin	بِأَسِّ شَدِيدٍ	[17:5, 27:33, 48:16]	[17:5, 48:16]	0.67	1.00
90	I so'iqotu	عُقُوعِ أَصْلِهَا	[2:55, 4:153, 51:44]	[3:42, 3:45, 6:93, 2:187, 2:246]	0.00	0.00
91	Syafa'atun	عَفَا أَفْسَاسُ	[2:48, 2:123, 2:254]	[74:48, 20:109, 34:23, 2:123, 53:26, 2:48, 2:254, 39:44, 36:23, 4:24, 29:56, 4:81, 4:128, 7:138, 4:12, 8:66, 2:259, 4:25, 10:98, 4:153, 2:282, 2:283, 4:102, 2:184, 4:34, 4:23]	1.00	0.00
92	Bisurotin	قُرُوسٍ	[2:23, 10:38]	[2:23, 10:38, 57:13, 22:15]	1.00	1.00
93	Wa anzala	لَنْزَالٍ	[2:22, 2:213, 3:3, 3:4, 4:113, 9:26, 14:32, 20:53, 27:60, 33:26, 39:6, 2:231, 2:57, 7:160, 4:153, 57:25, 2:91, 2:170, 5:49, 6:91, 9:97, 12:40, 16:24, 17:102, 31:21, 42:15, 48:18, 48:26, 53:23, 4:61, 5:48, 5:104, 8:41, 16:44, 23:18, 24:1, 25:48, 31:10, 3:7, 22:5, 13:37, 20:113, 22:16, 13:17, 2:41, 15:22, 14:44, 23:29, 7:146, 14:6, 20:80, 7:141, 7:165, 18:82, 2:275, 9:100, 4:57]	[2:22, 9:40, 2:213, 3:3, 3:4, 4:113, 9:26, 14:32, 20:53, 27:60, 33:26, 39:6, 2:231, 2:57, 7:160, 4:153, 57:25, 2:91, 2:170, 5:49, 6:91, 9:97, 12:40, 16:24, 17:102, 31:21, 42:15, 48:18, 48:26, 53:23, 4:61, 5:48, 5:104, 8:41, 16:44, 23:18, 24:1, 25:48, 31:10, 3:7, 22:5, 13:37, 20:113, 22:16, 13:17, 2:41, 15:22, 14:44, 23:29, 7:146, 14:6, 20:80, 7:141, 7:165, 18:82, 2:275, 9:100, 4:57]	1.00	1.00

94	Bilmawadati	رَهْدَوْمَلَاب	[60:1]	[60:1]	1.00	1.00
95	Muhajirotin	بِتَارِحَاهُمْ	[60:10]	[60:10]	1.00	1.00
96	Walayaznina	وَلَا يَزْنِيْنَ	[60:12]	[60:12]	1.00	1.00
97	Bibuhtanin	بِنَاتِهُبِيْب	[60:12]	[60:12]	1.00	1.00
98	Wa a'anahu	هَنْ اَعَاوُ	[25:4]	[47:23, 4:93, 48:6, 33:57, 18:21, 3:81, 34:33, 41:44, 2:266, 6:6, 9:12, 48:11, 4:102, 73:20]	0.00	0.00
99	Masalanil kaumu	مَتَلَا الْقَوْمُ	[7:177]	[6:144, 2:264, 39:29, 49:11]	0.00	0.00
100	Musaytiruna	نَوْرَطِيَصْمَلَا	[52:37]	[52:37]	1.00	1.00
Rata-rata					0.92	0.74