Appendices

1. Raw data collected for Quality Ratios in Device A

FPS Processed in Relation to Quality Ratio in Device A for 30 Second Period(FPS)										
Quality(%) Time (s)	10	20	30	40	50	60	70	80	90	98
1	12	11	11	12	11	11	10	9	7	5
2	13	10	11	11	11	8	8	9	7	4
3	12	14	11	11	10	11	8	8	7	4
4	12	11	11	11	10	9	9	8	8	5
5	12	12	13	11	10	9	9	8	8	4
6	12	11	12	12	11	11	9	9	8	5
7	12	12	11	9	11	10	8	8	8	5
8	13	10	10	10	11	10	8	8	6	4
9	13	11	10	11	10	8	8	7	7	3
10	11	12	11	10	10	11	9	9	8	4
11	13	11	10	11	11	9	13	7	7	4
12	13	11	11	12	11	10	8	8	7	4
13	16	12	10	11	11	9	10	6	7	5
14	12	12	11	10	13	10	8	9	6	4
15	12	10	12	12	11	7	9	7	7	3
16	14	11	11	10	9	9	10	9	6	4
17	14	12	12	12	9	9	9	9	7	4
18	12	11	8	10	8	12	9	9	6	3
19	13	11	11	10	10	8	9	9	8	4
20	13	11	11	10	9	10	8	10	9	4
21	13	12	10	12	9	10	10	9	7	3
22	13	12	10	10	10	9	9	7	9	4
23	15	12	11	9	9	10	8	7	7	4
24	14	12	11	12	8	11	9	7	5	4
25	12	11	12	11	9	9	9	7	8	4
26	13	11	10	11	8	8	10	7	6	3
27	13	13	11	10	7	10	9	8	6	4
28	14	12	12	12	10	8	9	8	6	4
29	14	11	10	11	8	10	9	7	8	4
30	13	11	11	11	10	10	8	8	7	5

2. Raw data collected for Quality Ratios in Device B

FPS Processed in Relation to Quality Ratio in Device B for 30 Second Period(FPS)										
Quality(%) / Time (s)	10	20	30	40	50	60	70	80	90	98
1	14	11	11	9	11	9	9	9	7	4
2	14	13	13	10	11	7	9	8	6	4
3	15	12	12	13	10	12	9	10	5	2
4	15	12	10	11	12	8	8	8	6	2
5	15	11	13	10	12	8	9	9	8	3
6	14	12	9	14	13	9	10	9	5	4
7	15	10	10	14	12	13	9	9	7	3
8	14	11	11	13	9	11	8	9	8	3
9	15	9	12	11	12	12	10	8	7	2
10	15	12	13	13	13	12	8	9	6	3
11	15	10	14	11	8	13	9	9	7	4
12	15	12	11	12	10	13	8	9	7	3
13	15	14	12	13	8	12	8	9	5	4
14	14	13	13	10	10	11	10	9	7	4
15	14	13	10	11	13	8	9	10	7	4
16	13	14	12	12	9	8	9	9	6	4
17	14	13	10	13	9	10	10	9	7	3
18	12	14	12	11	8	11	8	10	6	3
19	14	13	12	10	10	12	11	9	7	4
20	15	13	12	13	12	11	9	9	8	3
21	14	13	13	11	12	13	10	9	6	2
22	12	13	13	12	13	11	9	9	6	3
23	14	14	14	12	13	9	9	9	6	3
24	14	13	11	12	9	10	10	9	7	2
25	15	12	13	13	10	10	8	10	6	2
26	15	11	12	11	9	9	8	7	6	3
27	14	10	13	12	10	8	9	9	7	3
28	15	12	10	11	11	8	10	8	7	3
29	14	11	12	13	12	7	9	9	7	3
30	14	11	12	10	12	9	10	9	6	4

3. Raw data collected for FPS in relation to distance

FPS Processed in Relation to Distance in Device A for 30 Second Period(FPS)										
Distance(m) / Time (s)	1	2	3	4	5	6	7	8	9	10
1	13	12	12	13	10	8	5	6	1	1
2	13	15	11	10	11	8	5	5	2	1
3	13	15	13	12	10	8	7	4	2	1
4	13	14	13	10	7	9	7	3	1	1
5	13	12	12	12	11	9	8	2	2	1
6	13	14	11	13	8	9	7	4	1	1
7	15	12	13	13	7	7	4	3	2	1
8	14	15	12	12	11	6	4	2	1	1
9	14	12	14	9	10	6	8	3	3	1
10	13	12	14	13	9	9	5	2	3	1
11	15	13	11	12	10	6	8	3	3	1
12	15	15	13	9	8	9	4	2	1	1
13	13	15	12	9	7	9	8	4	3	1
14	14	13	14	11	11	8	6	5	3	1
15	13	15	13	9	7	7	7	3	2	1
16	14	14	12	8	7	7	5	2	2	1
17	13	12	15	10	8	7	8	4	2	1
18	15	14	14	11	8	9	4	5	1	1
19	15	15	13	9	10	6	5	3	3	1
20	13	13	15	12	8	6	7	2	1	1
21	14	15	12	9	8	8	6	6	2	1
22	14	13	14	11	9	8	4	3	1	1
23	15	13	11	13	11	9	8	2	3	1
24	13	12	12	9	10	9	4	4	3	1
25	13	13	14	10	10	8	5	5	2	1
26	13	14	12	10	8	8	5	3	4	1
27	14	12	12	11	7	6	8	2	1	1
28	14	15	12	9	7	9	7	4	3	1
29	13	14	13	10	10	9	4	3	2	1
30	13	15	12	13	8	6	4	4	1	1

4. Raw data collected in relation to signal strength

FPS Processed in Relation to Signal in Device A for 30 Second Period(FPS)										
Quality(%) Time (s)	10	20	30	40	50	60	70	80	90	98
1	13	14	14	13	12	12	10	7	5	3
2	13	14	12	12	13	10	10	9	7	2
3	15	14	13	13	12	11	8	9	5	2
4	15	13	12	14	13	11	8	7	5	2
5	13	13	12	14	13	9	8	9	9	3
6	14	13	14	12	13	12	8	7	5	2
7	13	14	14	13	13	10	8	8	5	3
8	15	13	14	13	11	10	9	8	8	3
9	14	13	13	12	12	13	8	10	7	3
10	13	14	13	12	13	9	9	7	5	4
11	13	14	14	11	11	13	9	8	5	2
12	15	14	14	12	13	9	10	9	8	2
13	14	13	12	13	12	9	9	9	9	2
14	15	13	12	14	12	10	7	7	8	3
15	14	13	13	12	12	12	10	8	5	4
16	13	13	14	14	11	9	9	9	8	3
17	14	14	12	14	12	10	10	7	7	4
18	15	14	13	13	11	12	10	8	6	2
19	13	14	12	12	13	10	10	7	8	4
20	15	13	12	12	11	12	11	8	7	4
21	13	13	13	14	13	11	11	8	5	4
22	15	13	14	14	13	13	11	9	6	3
23	13	14	13	12	10	9	9	8	9	4
24	15	14	12	12	13	9	8	7	8	4
25	13	13	13	12	11	13	8	10	5	2
26	14	14	14	13	11	13	8	10	5	4
27	14	14	12	14	12	9	10	8	5	3
28	13	13	14	13	13	10	9	8	6	2
29	15	14	12	13	13	13	9	9	8	4
30	14	13	14	13	13	11	8	10	6	4

5. Raw data collected showing maximum FPS by sending null images

Maximum Frames Transfer With A Null Image for All Quality Ratio in Device A for 30 Second Period(FPS)										
Quality(%) Time (s)	10	20	30	40	50	60	70	80	90	98
1	59	56	47	53	54	54	57	55	59	56
2	56	47	48	58	54	48	60	49	58	55
3	43	48	54	58	53	47	52	49	55	54
4	44	55	47	60	54	46	54	52	54	57
5	52	54	52	59	54	51	48	51	54	52
6	55	55	54	51	53	52	59	52	59	58
7	56	55	48	51	50	42	58	53	43	54
8	52	52	61	44	50	43	55	55	53	52
9	53	56	51	54	57	60	53	45	52	58
10	61	48	52	46	55	44	45	54	58	57
11	49	54	53	50	53	57	40	51	51	58
12	44	49	54	48	46	49	56	59	52	57
13	55	50	46	49	52	46	59	57	54	59
14	52	54	59	60	53	58	58	49	55	61
15	43	56	47	57	56	43	52	57	53	59
16	48	57	49	41	57	53	46	53	46	60
17	47	56	46	54	54	56	53	55	45	42
18	41	54	52	51	56	45	55	50	51	55
19	60	53	60	42	53	44	54	50	54	51
20	59	52	46	51	57	51	51	49	57	43
21	42	51	48	41	55	59	53	52	54	40
22	45	49	60	56	54	45	55	53	49	49
23	57	53	48	42	57	51	52	47	52	46
24	48	51	47	47	53	60	51	52	59	48
25	43	54	57	44	54	43	56	47	56	41
26	41	57	46	43	57	53	59	40	53	59
27	53	59	40	53	54	42	52	53	56	61
28	39	54	46	50	54	48	54	50	54	57
29	58	47	46	55	57	56	50	56	51	61
30	40	47	47	59	53	55	56	55	52	47

6. Raw data collected for frame sizes based on quality ratio

Data Size of each Frame after Quality Ratio in Device A for 30 Second Period(KB)									
Quality(%) Time (s)	10	20	30	40	50	60	70	80	90	98
1	17.95	43.15	74.28	110.24	150.55	195.64	247.51	310.00	394.53	542.37
2	11.81	28.68	49.90	75.10	104.03	137.09	176.59	226.07	298.67	451.19
3	9.24	21.17	35.18	51.35	69.22	89.05	112.03	140.14	178.96	255.36
4	11.98	28.05	47.52	69.68	94.50	122.26	154.43	193.50	248.50	360.78
5	10.00	23.06	38.77	56.71	76.65	98.71	124.00	154.70	196.66	276.88
6	20.46	51.11	89.83	135.35	187.23	246.01	315.50	402.27	526.51	758.55
7	16.93	41.69	72.76	109.03	150.22	196.72	251.43	319.06	415.18	594.12
8	18.47	43.79	74.97	110.64	150.18	193.84	243.43	301.94	378.23	501.79
9	9.73	23.08	39.48	58.45	79.88	104.16	132.65	168.13	219.98	329.36
10	13.69	32.60	55.61	82.04	111.43	144.10	181.82	227.31	289.46	404.83
11	8.85	21.02	36.00	53.57	73.70	96.65	124.02	158.51	210.25	323.03
12	14.04	35.58	63.05	95.63	132.99	175.49	225.92	289.00	379.88	555.19
13	10.39	24.78	42.61	63.33	86.89	113.52	145.04	184.46	242.08	361.42
14	9.87	23.29	39.73	58.83	80.50	105.12	134.34	171.16	226.05	349.02
15	11.64	27.53	46.82	68.96	93.85	121.80	154.33	194.33	249.75	156.95
16	10.55	24.61	41.60	60.92	82.52	106.43	133.90	167.39	213.70	304.10
17	12.25	30.74	54.15	81.54	112.84	148.18	189.88	241.88	318.00	472.45
18	12.39	28.88	48.80	71.72	97.32	125.75	158.65	198.59	254.15	364.27
19	9.60	22.23	37.49	55.03	74.75	96.87	122.59	154.16	198.46	285.68
20	8.50	19.93	34.59	52.02	73.32	95.61	123.44	158.19	209.31	320.64
21	8.62	19.98	33.94	50.31	69.06	90.52	116.28	148.95	196.96	312.44
22	12.09	29.39	51.27	77.19	106.75	140.36	180.50	230.93	304.48	457.55
23	11.55	27.22	46.44	68.78	93.88	122.05	155.02	195.67	252.97	367.20
24	11.95	27.83	46.84	68.54	92.67	119.61	150.67	188.25	240.41	339.20
25	10.54	26.75	47.65	72.43	100.79	133.20	171.75	220.66	293.98	439.17
26	10.34	24.06	40.57	59.35	80.35	103.72	130.70	163.43	209.17	299.05
27	10.18	23.71	39.82	58.09	78.65	101.49	127.61	159.39	203.44	290.11
28	8.76	20.06	33.29	48.36	65.07	83.64	105.18	131.68	170.36	258.16
29	10.19	23.60	39.61	57.75	78.03	100.52	126.40	157.89	201.57	288.05
30	11.96	29.04	50.27	75.04	103.10	134.82	172.18	218.79	285.95	416.88

7. Raw data collected showing FPS processed in a low noise environment

FPS Processed in Relation to Low Noise in Device A for 30 Second Period(FPS)										
Quality(%) / Time (s)	10	20	30	40	50	60	70	80	90	98
1	15	12	10	12	11	8	7	6	6	6
2	13	12	10	12	11	10	7	8	8	5
3	15	12	11	9	10	9	8	6	7	4
4	11	13	12	10	10	10	7	6	6	6
5	13	12	11	9	10	8	7	9	8	6
6	14	14	11	10	11	10	9	7	6	4
7	13	13	11	8	11	10	10	8	6	5
8	12	10	10	12	11	9	8	7	8	6
9	11	13	12	11	10	11	7	8	8	5
10	11	10	11	9	10	9	8	6	7	5
11	12	13	12	8	11	9	7	7	6	4
12	12	12	11	12	11	11	7	8	8	4
13	11	11	11	11	11	11	7	8	7	6
14	13	11	11	8	12	8	7	6	7	6
15	15	13	10	12	11	11	10	6	7	4
16	11	13	11	9	9	8	9	8	7	5
17	14	11	11	12	9	8	9	6	6	6
18	13	11	13	11	8	8	8	8	6	5
19	13	12	11	11	10	10	9	7	8	5
20	15	10	11	9	9	10	8	6	6	6
21	13	11	12	11	12	11	9	8	7	4
22	14	11	11	11	10	9	7	8	6	6
23	15	13	10	10	9	11	9	8	7	5
24	11	9	10	11	8	11	8	8	8	6
25	11	11	13	8	9	8	9	9	6	6
26	14	12	10	10	8	8	8	9	8	5
27	11	13	11	10	7	11	7	8	6	4
28	14	10	11	11	10	10	10	6	7	5
29	11	11	12	9	8	8	7	8	8	6
30	14	13	12	9	10	11	8	8	8	5