## Exhibit C

1	IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF TEXAS		
2	TYLER DIVISION		
3	NT LAN TWO	,	
4	WI-LAN, INC.	)	DOCKET NO. 6:10cv521
5	-vs-	)	Tyler, Texas
6	ALCATEL-LUCENT USA, INC., ET AL	)	8:50 a.m. July 10, 2013
7	*************		
8	WI-LAN, INC.	)	
9	-vs-	)	DOCKET NO. 6:13cv252
10		,	
11	ET AL	)	
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14	TRANSCRIPT OF TRIAL  MORNING SESSION  BEFORE THE HONORABLE LEONARD DAVIS,		
15			
UNITED STATES CHIEF DISTRICT JUDGE 16		T JUDGE, AND A JURY	
17			
18			
19			
20	COURT REPORTERS: MS	S. SHE	A SLOAN
21		MS. JUDY WERLINGER 211 W. Ferguson Tyler, Texas 75702 shea_sloan@txed.uscourts.gov	
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23			_
24	Proceedings taken by Machine Stenotype; transcript wa		
25	produced by a Computer.		_ <del>_</del>

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1 (Jury in.)
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- THE COURT: Please be seated.
- 3 Welcome back, Ladies and Gentlemen of the
- 4 Jury. Welcome back. We're about to begin our third
- 5 day.
- 6 And Plaintiff will call their next
- 7 witness, please.
- 8 MS. ROSS: Good morning, Your Honor.
- 9 Avelyn Ross on behalf of the Plaintiff.
- 10 The Plaintiff would call Mr. John Jarosz.
- 11 THE COURT: Okay. You have been sworn,
- 12 haven't you?
- 13 THE WITNESS: I have not.
- 14 THE COURT: You have not?
- 15 All right. Please raise your right hand
- 16 and be sworn.
- 17 (Witness sworn.)
- 18 THE COURT: All right. You may have a
- 19 seat.
- 20 THE WITNESS: Thank you.
- JOHN JAROSZ, PLAINTIFF'S WITNESS, SWORN
- 22 DIRECT EXAMINATION
- 23 BY MS. ROSS:
- Q. Good morning, Mr. Jarosz.
- 25 A. Good morning, Ms. Ross.

- 1 Q. Would you please introduce yourself to the
- 2 jury.
- 3 A. Yes. My name is John Jarosz. I was born and
- 4 raised in Wisconsin, although I now live on the East
- 5 Coast.
- 6 My wife and I have been married for 28 years.
- 7 We have six children, five of whom are grown and out on
- 8 their own. One is still with us for a couple of more
- 9 years. So the house has become very quiet lately.
- 10 Q. Mr. Jarosz, what do you do for a living?
- 11 A. I'm an economist.
- 12 O. And what does an economist do?
- 13 A. Well, we economists do lots of things; but
- 14 among the things that we do is, we assess businesses and
- 15 we value assets and intellectual property. And patents,
- 16 in particular, are a form of assets.
- 17 Q. And do you specialize in any particular area
- 18 of economics?
- 19 A. Most of the work that I do is in evaluating
- 20 intellectual property assets. So intellectual property
- 21 is the area that covers patents, copyrights, trademarks,
- 22 and trade secrets.
- 23 And what I do is, I help companies and
- 24 individuals value their intellectual property rights,
- 25 and I often get involved in litigation disputes like

1 this, to figure out what the worth or the value of a

- 2 patent is if one party has infringed another party's
- 3 rights.
- 4 Q. And who do you work for, sir?
- 5 A. Analysis Group, Incorporated.
- 6 Q. What is Analysis Group?
- 7 A. We are an economic, financial, and strategy
- 8 consulting firm of about 600 people. We have offices
- 9 throughout the United States, in Canada, and now in
- 10 China.
- 11 Q. And what is your position with Analysis Group?
- 12 A. I'm a managing principal of the firm, which
- 13 means I'm one of the owners of the firm. I'm also the
- 14 founder and director of the Washington, D.C. office. I
- 15 founded that office about 17 years ago.
- 16 Q. And how long have you been an economic
- 17 consultant?
- 18 A. For about 27 years.
- 19 Q. And have you prepared a set of demonstrative
- 20 charts to assist in your testimony today?
- 21 A. Yes, I have.
- Q. And have you prepared a chart that summarizes
- 23 some of your qualifications?
- 24 A. Yes, I have.
- MS. ROSS: May I see Slide 1, please?

1 Q. (By Ms. Ross) Is this a copy of the chart that

- 2 you prepared?
- 3 A. It is. It's a very brief summary of some of
- 4 the things that describe my background.
- 5 Q. Can you please describe your educational
- 6 background?
- 7 A. Sure. I have a bachelor's in economics in
- 8 organizational communication from Creighton University,
- 9 which is located in Omaha, Nebraska.
- 10 After that, I was a fellowship student in the
- 11 Ph.D. program in economics at Washington University,
- 12 which is located in St. Louis. And there I completed
- 13 most of the requirements for my Ph.D. but not all of
- 14 them. I was awarded a master's, but I'm fairly close to
- 15 a Ph.D. I just haven't had the time to finish it.
- 16 Q. I notice from your chart that in addition to a
- 17 bachelor's degree and a master's degree, you also have a
- 18 law degree; is that true, sir?
- 19 A. Yes. I went to law school at the University
- 20 of Wisconsin and earned my J.D. from there as well.
- Q. Are you licensed to practice in any state?
- 22 A. I'm licensed to practice in the State of
- 23 Wisconsin, but I've been on inactive status for
- 24 27 years.
- Q. Have you ever practiced law, sir?

- 1 A. I have not.
- 2 Q. So you've been an economist your entire
- 3 career?
- 4 A. I have.
- 5 Q. Are you a member of any professional
- 6 organizations?
- 7 A. Yes. I'm a member of the American Economic
- 8 Association; the American Law and Economics Association;
- 9 the AIPLA, which is the American Intellectual Property
- 10 Law Association; and the Licensing Executive Society.
- 11 Q. Can you tell me a little bit about the
- 12 Licensing Executive Society?
- 13 A. Yes. That's the group of individuals here in
- 14 the United States, and actually worldwide -- there are
- 15 about 6 or 8,000 of us -- that orient much of our
- 16 careers to assessing intellectual property rights and
- 17 finding the best ways to put a value on those rights and
- 18 to share those rights among parties and help companies
- 19 share their intellectual property rights.
- 20 Q. Have you held any leadership positions with
- 21 the Licensing Executive Society?
- 22 A. Yes. I've been fairly active with the LES
- 23 over the years. Fairly recently, for a two-year period,
- 24 I was chairman of the Valuation and Taxation Committee.
- 25 And then I became a -- after that, I became a

- 1 charter member of a subgroup that gives a certification
- 2 as a certified licensing professional. I was then asked
- 3 to be part of a small group who wrote the exam to
- 4 determine who would earn that CLP in the future.
- 5 So I was at the -- I was the initial group
- 6 that drafted up the exam for people to get that
- 7 certification; and I can assure you, it's much better to
- 8 be drafting up the exam than taking the exam.
- 9 Q. How do you keep active in the field?
- 10 A. Well, I do lots of things, but among the
- 11 things that I do is I write and publish articles. I
- 12 give speeches, and I teach courses.
- Q. Where do you teach courses or give
- 14 presentations?
- 15 A. I -- I give presentations and teach courses
- 16 throughout the country. Fairly recently, I've been
- 17 active at the Georgetown University Law Center helping
- 18 teach a course there.
- 19 And the U.S. Patent and Trademark Office has
- 20 asked me to come in and give a valuation course to an
- 21 international delegation of people that came from a
- 22 variety of different countries and are learning about
- 23 the U.S. patent system, and in particular, they wanted
- 24 to learn about how we in the United States value
- 25 intellectual property rights.

1 Q. Have you ever acted as a damages expert in a

- 2 patent case before?
- 3 A. Yes, many times.
- 4 Q. About how many times have you testified as a
- 5 damages expert in a trial like this one?
- 6 A. Over the years, I've probably testified about
- 7 75 times. Several of those are here in Texas.
- 8 Q. Can you give me a couple of examples of your
- 9 experience?
- 10 MS. ROSS: May I have Slide 2?
- 11 A. Sure. You'll see here I've worked in many
- 12 different industries, just about every imaginable
- 13 industry; some of which are related here, some of which
- 14 are very different.
- 15 Q. Have you worked on cases in the mobile
- 16 communications industry?
- 17 A. Yes. I've done quite a number of cases in
- 18 that area, both in the software and hardware realm.
- 19 Q. Could you give me some examples of that?
- 20 A. Sure. I've worked for handset manufacturers,
- 21 including Nokia, Motorola Mobility, and BlackBerry.
- 22 I've also worked for people that are involved in the
- 23 infrastructure. Qualcomm is a name that came up in
- 24 opening. I worked for them for quite some time years
- 25 back.

1 In the opening statement, you might remember

- 2 there was a wall of patents put up. When I first
- 3 started working with Qualcomm, there were just a few up
- 4 there. Now I think that whole wall is filled with
- 5 patents.
- 6 Q. Now, in this case, you're testifying on behalf
- 7 of Wi-LAN, who's the patent owner. Over your career,
- 8 how does your testimony break down between patent owner
- 9 versus accused infringer?
- 10 A. It's about an even split, meaning about half
- 11 the time, I'm representing companies that own patent
- 12 rights, and about half the time, I'm representing
- 13 companies that are accused of infringing on patent
- 14 rights.
- MS. ROSS: Your Honor, at this time, we
- 16 tender Mr. Jarosz as an expert in the fields of IP
- 17 valuation and damages es -- es -- excuse me --
- 18 THE COURT: You may proceed.
- MS. ROSS: -- estimation.
- 20 THE COURT: All right. You may proceed.
- Q. (By Ms. Ross) Mr. Jarosz, let's start out and
- 22 talk a little bit about your work in this case.
- What was your assignment?
- 24 A. I was asked to assess the damages issues,
- 25 to -- to look at evidence that would be relevant to the

- 1 jury in determining what the proper amount of damages
- 2 would be if the jury finds that the patents here are
- 3 valid, not unenforceable, and infringed.
- So if the jury finds that there is liability,
- 5 I've been asked to provide assistance on thinking about
- 6 evidence that would determine how much money should be
- 7 paid for that infringement.
- 8 Q. And did you prepare any written materials as
- 9 part of your assignments?
- 10 A. I did. I prepared two reports; one that I
- 11 submitted in the fall -- fall of 2012, and one that I
- 12 submitted in the last couple of weeks.
- MS. ROSS: Jen, may I have Slide 4,
- 14 please?
- 15 Q. (By Ms. Ross) So let's talk a little bit about
- 16 how you reached your opinions on your damages assessment
- 17 in this case.
- 18 What type of evidence did you evaluate in your
- 19 assessment?
- 20 A. Well, I looked at quite a bit. This is kind
- 21 of a listing of the kinds of things. In some regards,
- 22 it's fun to get access to all this material, and in
- 23 other regards, it's overwhelming, but it's always
- 24 necessary.
- 25 So I looked at information from the files of

- 1 each of the four companies here: Sales information,
- 2 licensing information, marketing information. I looked
- 3 at the patents. I looked at research done by outside
- 4 observers of the industry. I read deposition testimony
- 5 and reports, and I talked to people involved in the
- 6 business.
- 7 Q. Did you talk with Mr. -- or Dr. Wells, who
- 8 testified yesterday?
- 9 A. Yes. I've talked with Dr. Wells on several
- 10 occasions, I've read his materials, and I saw his trial
- 11 testimony transcript.
- 12 Q. Did you speak with anybody from Wi-LAN?
- 13 A. I did.
- Q. Who did you speak with; do you know?
- 15 A. I spoke with Mr. Parolin, who testified here
- 16 yesterday. I spoke with him on several occasions over
- 17 our engagement here.
- 18 Q. Did you consider the expert reports and
- 19 testimony provided by the Defendants' experts?
- 20 A. Yes, I did. Dr. Becker is representing two of
- 21 the parties here, and Mr. Bakewell is representing two
- 22 of the other parties.
- 23 Mr. Bakewell is representing Alcatel-Lucent
- 24 and HTC, and Dr. Becker is representing Ericsson and
- 25 Sony Mobile. They have each submitted several reports

- 1 and given depositions, and I have reviewed those
- 2 materials.
- 3 Q. Did you also review the trial testimony that's
- 4 been given in the case so far?
- 5 A. Yes. I looked at Dr. Wells' testimony, and I
- 6 was here for some fair amount of the proceedings. I was
- 7 here the first day and a good portion of yesterday.
- 8 Q. Okay. Let's focus a little more on how you've
- 9 reached your damages analysis.
- 10 Are you familiar with the subject matter of
- 11 the patents that Wi-LAN is asserting in this case?
- 12 A. Generally, I am. I'm not a technical expert
- 13 like Dr. Wells and other people are. I'm an economist,
- 14 but I do have some general understanding of the
- 15 technology and its footprint or its significance in the
- 16 marketplace.
- 17 Q. What aspect of the accused -- what aspect of
- 18 the accused products do they relate to?
- 19 A. I believe they relate to what's called HSDPA,
- 20 which, as I understand it, is oriented to how
- 21 information is downloaded onto smartphones and tablets
- 22 and other devices.
- Q. Do you understand the benefits that HSDPA
- 24 offers?
- 25 A. I understand them generally. Again, I'm not a

- 1 technical expert, but I understand generally that the
- 2 advantages of the patents and HSDPA are related to
- 3 faster communications, faster downloads, and to more
- 4 efficient downloading.
- 5 So that means it has advantages to us users
- 6 using our smartphones and our tablets. And it has
- 7 advantages to the infrastructure providers, the
- 8 operators, those people who are trying to provide us
- 9 with that information.
- 10 Q. Is it your understanding that Wi-LAN invented
- 11 HSDPA?
- 12 A. They did not, to my understanding.
- 13 Q. Then why do Wi-LAN's patents matter to HSDPA
- 14 from an economic point of view?
- 15 A. Well, according to Dr. Wells and other
- 16 information that I've seen in this case, the patents
- 17 relate to very important functionalities in HSDPA. And
- 18 I understand from Dr. Wells that, in fact, it's
- 19 essential technology to HSDPA.
- 20 Q. And what do you understand that to mean?
- 21 A. Essential. As I understand it from an
- 22 economist's standpoint, means that in order to have a
- 23 handset or a base station that complies with HSDPA, you
- 24 have to practice these patents. You cannot comply with
- 25 HSDPA protocol and not practice these four patents.

- 1 Q. Did you also consider Dr. Wells' testimony
- 2 that the patents-in-suit were not only essential, but
- 3 that they pertained to core functionality of HSDPA?
- 4 A. Yes. I believe he talked a fair amount about
- 5 that both on Monday and on Tuesday.
- 6 Q. In addition to Dr. Wells' testimony, did you
- 7 see any other evidence regarding the benefits of HSDPA?
- 8 A. Yes. I've seen it in documents and deposition
- 9 testimony.
- 10 Q. Okay. And let me clarify. That's the
- 11 patented technology to HSDPA?
- 12 A. Yes.
- 13 Q. Did you consider the deposition testimony
- 14 given by Defendants in this case?
- 15 A. I did.
- 16 Q. Did you prepare some excerpts of deposition
- 17 testimony to assist the jury today?
- 18 A. Yes. And I converted those into slides.
- 19 Q. Okay.
- 20 MS. ROSS: Jen, may I have Slide 3,
- 21 please?
- 22 Oh, I'm sorry, not that one. Slide 5. I
- 23 apologize.
- Q. (By Ms. Ross) According to Dr. Wells -- excuse
- 25 me. Let's start with Sony Mobile. What is shown here?

- 1 A. This is an excerpt from the testimony of
- 2 Mr. Hernquist, who I understand is at Sony Mobile. And
- 3 he's asked some questions about HSDPA.
- 4 I don't know if you want me to read those or
- 5 just simply summarize what I understand the testimony to
- 6 be.
- 7 Q. Summarizing what you understand the testimony
- 8 to be, will be fine.
- 9 A. He was asked about Sony's understanding about
- 10 the benefits of HSDPA; and he responded on behalf of
- 11 Sony that HSPA, which is sort of the broader structure
- 12 within which HSDPA resides, allows for faster
- 13 downloading of apps, which is applications, games,
- 14 Internet, Facebook, and other information.
- 15 So he's talking about the issue of fast
- 16 downloads, us users getting that information quicker
- 17 than we did before.
- 18 Q. And in -- in his testimony here, the bottom
- 19 part, he's talking about the downloading part?
- 20 A. Yes.
- Q. And that corresponds to HSDPA; is that your
- 22 understanding?
- 23 A. That's my understanding.
- MS. ROSS: Let's call up Slide 6, please.
- 25 Q. (By Ms. Ross) Let's look at HTC's testimony.

- 1 What does this show?
- 2 A. This is an excerpt from the transcript of
- 3 Ms. Markovich from HTC, and she was also asked about the
- 4 benefits of HSDPA. I see we had a typo there in the
- 5 title. It's HSDPA from HTC's perspective, and she talks
- 6 about it allowing for streaming content, in particular
- 7 streaming video.
- 8 So when we watch live program -- or -- or
- 9 pre-recorded programs, for instance, HSDPA is important
- 10 in us receiving and having a favorable consumer
- 11 experience of watching that type of content.
- MS. ROSS: Let's go to Slide 7, please.
- 13 Q. (by Ms. Ross) What does this document show or
- 14 what is this document?
- 15 A. This is a excerpt from a report done by a
- 16 group called Dell'Oro. Dell'Oro is a market research or
- 17 market analyst firm. They follow businesses very
- 18 closely; and for our purposes, they follow the wireless
- 19 industry very closely. And they produce reports that
- 20 use input from many different sources, including company
- 21 people, and then they sell these reports.
- 22 And they're used by many people in the
- 23 industry. Dell'Oro reports are quite commonly used by
- 24 virtually every provider in this industry.
- 25 And Dell'Oro reported here that subscribers

- 1 are willing to pay a premium, pay more W-CDMA handsets
- 2 and devices that provide better experiences and
- 3 data-intensive application. And then it goes on to
- 4 specifically talk about HSDPA.
- 5 So it matters, this report says, to us
- 6 consumers for our handsets and other devices, because we
- 7 can get data faster and better because of HSDPA.
- 8 Q. And you considered materials such as this one
- 9 in forming your opinions?
- 10 A. Yes, I did.
- 11 Q. Is this the kind of information that experts
- 12 regularly use in forming their opinions?
- 13 A. Absolutely. We use third-party reports that
- 14 talk about the industry as often as we can, both because
- 15 they know a lot about the industry, and they typically
- 16 represent kind of objective views of the business.
- 17 Q. Did you consider any other industry reports?
- 18 A. Yes. For a variety of purposes, I also used
- 19 reports by IDC. Those are, for my purposes, very useful
- 20 with regard to data. They have data that many of the
- 21 Defendants here rely upon and many wireless providers
- 22 rely upon.
- 23 Mr. Parolin talked about the fact that
- 24 Dell'Oro and IDC are two of three most important
- 25 industry reports that the company is aware of that are

- 1 used commonly in the industry.
- Q. Are the patents-in-suit the only ones
- 3 necessary in order to implement HSDPA?
- 4 A. No, they are not.
- 5 Q. Do you recall Dr. Wells' testimony regarding
- 6 HSDPA as it relates to HSUPA and HSPA?
- 7 A. Yes.
- 8 Q. Could you explain that for me?
- 9 A. I understand HSPA is kind of the umbrella, and
- 10 within HSPA is HSDPA and HSUPA, and they work together.
- 11 HSDPA deals with downloading; HSUPA deals with
- 12 uploading. But together they're combined to make up
- 13 HSPA.
- 14 Q. Then the patents-in-suit would fall under the
- 15 HSDPA side of the umbrella?
- 16 A. Absolutely.
- 17 MS. ROSS: Let's pull up Slide 8, please.
- Thank you.
- 19 Q. (By Ms. Ross) What does this show?
- 20 A. This is an excerpt from the patent damages
- 21 statute. That is, if the jury finds the patents are
- 22 valid, not unenforceable, and infringed -- so they find
- 23 that there was something wrong that was done, and they
- 24 get to -- if the jury gets to the issue of how much
- 25 money should be paid, I understand that they should be

- 1 driven by the provision here on the screen which reads:
- 2 ...damages adequate to compensate for the infringement,
- 3 but in no event less than a reasonable royalty.
- 4 Q. Now, the passage you read mentions a
- 5 reasonable royalty. What is that, sir?
- 6 A. That can be thought of as a payment that
- 7 should be made for use of the patents.
- Q. And what form can a reasonable royalty take?
- 9 A. Well, it can take -- typically, it takes one
- 10 of two forms. The first form is a lump-sum payment that
- 11 is a single amount, one dollar amount.
- 12 The second is what's called a running royalty,
- 13 and that's an amount per infringing activity. So it's
- 14 typically an amount per product sold or tied to the
- 15 selling price of each product sold.
- So lump-sum royalty on one hand, running
- 17 royalty on the other hand are the two most common forms.
- 18 Q. How did you evaluate the amount that the
- 19 royalty should be here?
- 20 A. I used -- and -- and I think it would be
- 21 useful for the jury to consider using what's called a
- 22 hypothetical negotiation construct. What that means is
- 23 we pretend that these parties would have sat down at a
- 24 negotiating table or a series of negotiating tables,
- 25 because we have four different Defendants; and these two

- 1 parties would have -- we need to figure out what these
- 2 two parties might have agreed to, instead of having the
- 3 infringing activity.
- 4 So what was -- what would be a fair payment
- 5 for each of the four Defendants to make to Wi-LAN? So
- 6 what's really important is to think about what a
- 7 hypothetical license would be, arising out of these
- 8 negotiations.
- 9 Q. So where does this concept of the hypothetical
- 10 negotiation come from?
- 11 A. It comes from a very famous court case called
- 12 Georgia-Pacific, which was issued about 40 years ago.
- 13 And since then, many, many courts and many, many experts
- 14 like myself and Dr. Becker and Mr. Bakewell have used
- 15 the hypothetical negotiation construct in assessing
- 16 damages issues.
- MS. ROSS: May I have Slide 9, please?
- 18 Q. (By Ms. Ross) What is this list?
- 19 A. This is a list of factors that came from that
- 20 Georgia-Pacific case. The last factor, Factor 15, talks
- 21 about this hypothetical license which I just described a
- 22 few moments ago.
- The factors above that are also relevant to
- 24 consider. And for most of us involved in this field and
- 25 many courts, we have looked at those above-factors to

- 1 help figure out what a hypothetical license should look
- 2 like. So these are factors that are important in
- 3 considering what fair compensation might be.
- 4 Q. How does the hypothetical negotiation compare
- 5 with a real-life negotiation?
- A. Well, in some regards, it's very similar, but
- 7 in important regards, it's very different.
- 8 Q. Well, are there any assumptions about the
- 9 patents-in-suit that you need to account for in the
- 10 hypothetical negotiation?
- 11 A. In the hypothetical negotiation, that becomes
- 12 relevant if the jury has found that the patents are
- 13 valid, not unenforceable, and infringed. So if they are
- 14 strong patents that have been infringed. In that case,
- 15 if we get to the damages issues, the jury has found that
- 16 these are strong and infringed rights.
- In a real-world negotiation, that doesn't
- 18 exist. There's not a court finding. In the real world,
- 19 what happens -- in almost every instance -- is both
- 20 parties are still disagreeing about the strength of the
- 21 patents and whether they've been infringed. So they
- 22 enter licenses with this cloud of uncertainty.
- 23 Here, the hypothetical license doesn't have
- 24 that cloud of uncertainty anymore. We get the
- 25 hypothetical negotiation, if the jury has said, in

1 essence, remove that cloud of uncertainty; we know we

- 2 have strong rights. And so that's an important
- 3 difference with real-world licenses.
- 4 Q. And why is that an important difference?
- 5 A. Well, like I said, in real-world licenses,
- 6 you're just not sure what the strength of your patents
- 7 are. So when a patent owner comes to a potential
- 8 licensing partner, they say: I think I have pretty good
- 9 patent rights, and I think you're using those rights.
- 10 And real-world licensing partner says: I
- 11 don't think those are strong rights and, trust me, I'm
- 12 not infringing those, so let's come to a moderated
- 13 amount on that.
- 14 That doesn't happen in the hypothetical
- 15 negotiation.
- 16 Q. So what does it do to the bargaining positions
- 17 of each of the participants to the hypothetical
- 18 negotiation?
- 19 A. It greatly enhances the bargaining position,
- 20 the bargaining strength of the patent owner, and reduces
- 21 the bargaining strength of the licensees or the accused
- 22 infringers. And the reason is because the jury has said
- 23 these are strong rights, and they have been infringed.
- Q. What assumptions do you make regarding the
- 25 parties at the hypothetical negotiation?

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1 A. You assume that the parties are willingly
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- 2 sitting down at a table. We know they haven't played
- 3 very well with each other so far. We're, unfortunately,
- 4 in litigation. The parties haven't found a way to come
- 5 up with an agreeable license.
- In the hypothetical negotiation, we have to
- 7 say strip out that emotion, and we have to figure that
- 8 both parties are willing to enter a license.
- 9 Q. Are there any other assumptions regarding the
- 10 facts during the hypothetical negotiation?
- 11 A. Yes. Courts have allowed -- in fact, asked us
- 12 to consider how history has unfolded over time to figure
- 13 out how the Defendants or the accused infringers -- how
- 14 they have used the patents and how they have benefited.
- So it's something called the book of wisdom.
- 16 We can consider how history has unfolded since, for
- 17 instance, 2005 through today.
- 18 Q. When does the hypothetical negotiation occur?
- 19 A. Courts have set the hypothetical negotiation
- 20 at the point of first accused infringement, which is
- 21 typically the point of first sale after a patent has
- 22 issued.
- 23 Q. Okay.
- MS. ROSS: Let's pull up Slide 10,
- 25 please.

- 1 Q. (By Ms. Ross) What does this show?
- 2 A. This shows the four different hypothetical
- 3 negotiations that would be in effect here, associated
- 4 with the four different Defendants.
- 5 Q. Let's start with Ericsson, just by way of
- 6 example. You have Airspan as the patent holder.
- Who's Airspan?
- 8 A. Airspan is the company that owned the patents
- 9 as of 2005. I think Mr. Parolin talked about that at
- 10 some length. They owned the patents. They sold them to
- 11 Wi-LAN later. But in 2005, they owned each of these
- 12 four patents, so they would be sitting down with
- 13 Ericsson at that point in time.
- Q. When did Wi-LAN acquire the patents from
- 15 Airspan?
- 16 A. In early 2009.
- Q. And so that's why you have Airspan as the
- 18 patent holder at the time of the hypothetical
- 19 negotiation?
- 20 A. Yes. For the Ericsson negotiation and the
- 21 Alcatel-Lucent negotiation and the HTC negotiation. At
- 22 each of those points in time, Airspan is the owner of
- 23 the patents.
- Q. Can you tell the jury the dates that the
- 25 negotiations occur with respect to the other Defendants,

- 1 please?
- A. Yes. As I said before, with Ericsson, it's
- 3 2005; with Alcatel-Lucent, it's as well in 2005; with
- 4 HTC, it's in 2008; and with Sony Mobile, another
- 5 negotiation would have been done in 2009, and that would
- 6 be with Wi-LAN, because at that point in time, Wi-LAN
- 7 owned the patents.
- 8 Q. But it's -- it's your opinion, isn't it, sir,
- 9 that the damages period in this case begins in October
- 10 of 2010?
- 11 A. Yes. That's the point at which the complaint
- 12 was issued for each of these four Defendants. So I
- 13 start damages well after this hypothetical negotiation
- 14 began, and that's -- that's standard.
- 15 Q. And why do you do that, sir?
- 16 A. Because it's by the law. Damages cannot
- 17 start, in this case, to accrue until that point in time.
- 18 Q. At the time of the hypothetical negotiation
- 19 for each of the Defendants, is -- what is your opinion
- 20 with respect to the form and the length of the -- of the
- 21 resulting license?
- 22 A. Based on the evidence that I've seen, the
- 23 parties would have entered a lump-sum royalty, a single
- 24 amount, and they would have wanted a lump sum that
- 25 covered the life of the patent. That's standard for the

- 1 parties here.
- Q. But just to clarify, your opinions are that
- 3 that period should be reduced and beginning in October
- 4 of 2010?
- 5 A. Absolutely.
- 6 Q. So once you've determined who would be at the
- 7 negotiation, did you follow certain steps in figuring
- 8 out what the parties would have agreed to in the
- 9 negotiation?
- 10 A. I'm sorry. Yes, I did.
- 11 Q. Sorry. I had a little pause there at the end
- 12 of my question.
- 13 A. I'm just so excited. I just can't hold --
- 14 hold myself constrained here. I think I'm the only one
- 15 who's excited.
- 16 Q. What is the first step in determining the
- 17 appropriate form of the royalty license?
- 18 A. Well, you determine the form of the license.
- 19 Q. Okay.
- 20 A. Would that have been a lump sum or running
- 21 royalty or something different?
- Q. What's the second step in the analysis?
- 23 A. I do what's called a quantitative analysis. I
- 24 look at hard facts, information from a variety of
- 25 sources to determine what the data are suggesting would

- 1 be a fair royalty payment.
- Q. And then what's the third step in the
- 3 analysis?
- 4 A. It's a qualitative assessment. It's at that
- 5 point at which I pull in the Georgia-Pacific Factors
- 6 that we saw a few moments ago, and figure out if they
- 7 provide much guidance in -- in assessing the
- 8 quantitative data.
- 9 So there are many factors that are useful.
- 10 And we economists, even though we love and we're
- 11 obsessed with data, we also realize negotiations are
- 12 driven by things that aren't always, at their core, data
- 13 but are important to a negotiation. So we layer that in
- 14 on top of the data to figure out what a reasonable
- 15 royalty should be.
- 16 Q. Let's talk about the form of the royalty, Mr.
- 17 Jarosz. What forms can royalty payments take?
- 18 A. Like I said before, it can be some lump-sum
- 19 fee or running royalty, the running royalty tied to the
- 20 precise amount of infringement.
- 21 Q. And what form of the royalty did you determine
- 22 to be appropriate in this case?
- 23 A. Again, as I said, a lump-sum fee would be the
- 24 appropriate form here.
- Q. Did you review the prior licensing history of

- 1 the parties in making that conclusion?
- 2 A. Yes, I did.
- 3 Q. So with respect to the licensing history, what
- 4 did you find with respect to the parties?
- 5 A. What I found is Wi-LAN, when it's negotiating
- 6 with large handset or base station manufacturers, it
- 7 tends to negotiate for a lump-sum royalty.
- 8 When it's negotiating with smaller companies,
- 9 those can sometimes be running royalties. But they tend
- 10 to prefer a lump-sum amount for the large manufacturers.
- 11 And what we have here is for large
- 12 manufacturers.
- 13 As well, I looked at the Defendants' licensing
- 14 practices, and sometimes they do it on a running royalty
- 15 basis, and sometimes they do it on a lump-sum basis.
- 16 So given that the Wi-LAN data and practices
- 17 favor a lump-sum fee and the Defendants' payments
- 18 supported that, I came to the conclusion that a lump-sum
- 19 fee would be appropriate.
- Q. What do the Defendants say about the form of
- 21 the appropriate royalty in this case?
- 22 A. Dr. Becker and Mr. Bakewell, I believe, are in
- 23 agreement with me, that it should be a single lump-sum
- 24 payment. So I don't think we're fighting about that
- 25 issue.

1 Q. You said that you used quantitative approaches

- 2 to determine the appropriate lump-sum royalty. What did
- 3 you mean by quantitative?
- 4 A. Well, there are three types of quantitative
- 5 approaches that we economists use. They are used in a
- 6 variety of settings, but they're particularly important
- 7 in intellectual property pricing.
- 8 Those are the market approach, the income
- 9 approach, and the cost approach.
- 10 I looked up all those kind of data and will
- 11 present those to the jury to help the jury in its
- 12 deliberations.
- 13 Q. What is the market approach?
- 14 A. The market approach entails looking at other
- 15 transactions that have some similarity to the
- 16 hypothetical negotiation to figure out if there are
- 17 observations that are useful.
- 18 Q. Did you simply look at the dollar amount of
- 19 what the parties would have agreed to past -- in the
- 20 past for similar technology?
- 21 A. No. We look at that, but we don't stop our
- 22 investigation there. We economists and damages people
- 23 are asked to assess that evidence and figure out how
- 24 it's appropriate to our situation.
- 25 So in the real estate example, for instance, I

- 1 can't simply say that the price that my next-door
- 2 neighbor realized on his or her home is the price that I
- 3 should get for my home. There are differences.
- 4 So we economists need to adjust for those
- 5 differences in the style of the home, the size of the
- 6 home, to make the selling price of my neighbor's home
- 7 useful in determining what my selling price should be.
- 8 MS. ROSS: Jen, may I have 11, please?
- 9 Q. (By Ms. Ross) Is the market approach what you
- 10 considered in this case listed on Slide 11?
- 11 A. Yes. Those are the three forms of evidence
- 12 that I reviewed.
- 13 Q. The first evidence is acquisition data. You
- 14 mentioned earlier that Airspan owned the patents before
- 15 Wi-LAN?
- 16 A. Yes, I did.
- 17 Q. Did Airspan acquire the patents from anyone?
- 18 A. Yes, they did.
- 19 Q. And who was that?
- 20 A. Airspan acquired the patents -- I'm just
- 21 losing the name right now -- from DSC Communications in
- 22 1998.
- Q. And how much did Airspan pay for the patents?
- 24 A. \$13 million.
- 25 Q. Did you evaluate how comparable this

- 1 transaction, the DSC-to-Airspan transaction, was to the
- 2 hypothetical negotiation?
- 3 A. Yes, I did.
- 4 Q. And at the time of the hypothetical
- 5 negotiation, what business was Airspan in?
- 6 A. Well, that's not the hypothetical negotiation.
- 7 Q. I'm sorry. Excuse me.
- 8 At the time of the transaction. I misspoke.
- 9 A. Yeah. At the time of the transaction, which,
- 10 number one, was quite a number of years ago, in 1998,
- 11 Wi-LAN was in the broadband fixed wireless business, the
- 12 wireless DSL business. It's a business very different
- 13 from handsets and base stations that are at issue here.
- 14 So -- so Airspan was looking to apply that
- 15 technology in a way that's quite a bit different than
- 16 we're talking about today.
- 17 Q. What does the fact that Airspan was operating
- 18 in a different marketplace than the Defendants imply
- 19 with respect to the comparability of the transaction on
- 20 the hypothetical negotiation?
- 21 A. It means that the transaction is of limited
- 22 value, both because there wasn't any finding as to the
- 23 strength of those patents; but, importantly, Airspan was
- 24 thinking of applying them in ways that are very, very
- 25 different from Alcatel-Lucent, Ericsson, Sony Mobile,

- 1 and HTC.
- Q. Now, the transaction that occurred between DSC
- 3 to Airspan, were those parties related entities?
- 4 A. Yes, they were. So it wasn't between -- it
- 5 wasn't an arm's length negotiation between unrelated
- 6 parties.
- 7 Q. And what does arm's length negotiation mean?
- 8 A. A negotiation between two people that are not
- 9 connected with one another in which one can make the
- 10 presumption that there wasn't other consideration going
- 11 on, a father/son relationship, for instance, or one
- 12 cousin to a next. Not that there's anything wrong with
- 13 that. I'm not suggesting that at all.
- 14 But we typically like to look at negotiations
- 15 between parties that are unrelated and don't have other
- 16 consideration and benefits flowing to and from one
- 17 another.
- 18 Q. So what did you conclude with respect to the
- 19 comparability of the DSC/Airspan transfer to the
- 20 situation here?
- 21 A. It's of limited comparability. It was worth
- 22 looking at, but that 13-million-dollar number doesn't
- 23 provide much guidance here.
- Q. Did you also consider evidence regarding
- 25 Wi-LAN's acquisitions of the patents-in-suit from

- 1 Airspan in 2009?
- 2 A. Yes, I did.
- 3 O. And how much did Wi-LAN pay for the
- 4 patents-in-suit?
- 5 A. \$11 million.
- 6 Q. And in the -- did the purchase of patents
- 7 include the patents-in-suit?
- 8 A. Yes, it was a larger bundle. Mr. Parolin
- 9 talked about that yesterday. But these four
- 10 patents-in-suit were part of what Wi-LAN paid \$11
- 11 million for.
- 12 Q. And how comparable was that transaction to the
- 13 hypothetical negotiation?
- 14 A. That has some important differences as well.
- 15 Again, when that happened, there wasn't a
- 16 finding by a jury that any of the patents were valid,
- 17 enforceable, and infringed.
- 18 Moreover, Wi-LAN intended not to be in the
- 19 business that these Defendants are in. Wi-LAN intended
- 20 to be -- to use these patents and licensing out that
- 21 technology and other technology to others. It wasn't
- 22 intending to be in the business of manufacturing
- 23 anything, which is very different from the four
- 24 Defendants that we have here.
- 25 Q. At the time of the Airspan transfer to Wi-LAN,

- 1 did Wi-LAN know whether it would be able to successfully
- 2 license these patents?
- 3 A. No. It had no idea.
- 4 O. Did --
- 5 A. It was hoping it would, but there was no
- 6 evidence that it would be able to license these patents.
- 7 Q. Did Wi-LAN know at that time whether the
- 8 patents were valid?
- 9 A. There was no finding of that. Again, it was
- 10 hoping that they were, but there was no objective
- 11 evidence of that.
- 12 Q. What effect, if any, does this lack of
- 13 uncertainty on Wi-LAN's part regarding whether it would
- 14 be successful and whether the patents were valid have on
- 15 the price that Wi-LAN would have been willing to pay
- 16 Airspan at the time?
- 17 A. It moderated the price that they would have
- 18 paid. It's kind of like buying land. You hope that
- 19 there's oil under that land; but if you don't know,
- 20 you're going to moderate your price. If, on the other
- 21 hand, you know there is oil under that land, you're
- 22 going to pay a fairly hefty price.
- 23 At the time that Wi-LAN purchased these
- 24 patents, it was just land. They didn't know what use or
- 25 what was under the surface of that land.

- 1 Q. For the purposes of the hypothetical
- 2 negotiation, do we know whether the Defendants' products
- 3 were profitable and successful?
- 4 A. Yes, we do. As I mentioned earlier, we can
- 5 use the book of wisdom; and we have here, to determine
- 6 that the Defendants have used the patented inventions
- 7 quite extensively, there have been lots of revenues, and
- 8 they have realized substantial profits as well.
- 9 Q. Would Wi-LAN and the Defendants have known
- 10 that the patents were valid?
- 11 A. No one knew -- in the real world knew about
- 12 these patents; but in the hypothetical negotiation, when
- 13 Wi-LAN's talking to each of these four Defendants,
- 14 everybody would know that these are valid, enforceable,
- 15 infringed, and successful patents.
- 16 Q. And so what effect would that have on the
- 17 parties to the hypothetical negotiation?
- 18 A. That should necessarily raise the rate versus
- 19 a situation where there was this cloud of uncertainty.
- Q. Are you aware, sir, that Wi-LAN itself valued
- 21 the patents after it purchased them from Airspan in
- 22 2009?
- 23 A. I'm aware that it undertook an analysis. Mr.
- 24 Parolin talked about that. And it undertook an analysis
- 25 associated with a finding of whether there was impair --

- 1 impairment or not.
- Q. Let me show you Slide 12, please.
- 3 And this is be an excerpt from PX 200 and also
- 4 DX 60. Is this the memo that you were referring to?
- 5 A. Yes. This is one of the two memos. This is a
- 6 later memo from Mr. Houston to Mr. McEwan that
- 7 summarizes what Wi-LAN's findings were with regard to
- 8 the transaction.
- 9 It valued two of the patents here, the '211
- 10 and the '326, using the royalty rates there at the
- 11 bottom to assess whether the company had paid too much
- 12 for the portfolio it obtained from Airspan.
- 13 Q. So at the time that it happened -- let me go
- 14 back.
- 15 So what did you understand from this memo with
- 16 respect to -- how did -- how did Wi-LAN use this memo?
- 17 A. It used it to determine, again, whether it had
- 18 paid too much, whether the \$11 million was too much.
- 19 And what they concluded in this memo was, no, they did
- 20 not.
- 21 These patents, even though there had been no
- 22 jury finding, were probably worth a fair amount more
- 23 than \$11 million. So they did not need to make an
- 24 adjustment in their accounting books.
- 25 Q. And the rates that we see at the bottom of

1 this memo for base stations and handsets, what do you

- 2 understand those to represent?
- 3 A. They -- there's -- the base rates that is -- I
- 4 think they represent the rates in existing licenses that
- 5 Wi-LAN entered; and then at the very bottom, those are
- 6 additional rates that they could get above and beyond
- 7 the base rates because of the '211 patent, which is the
- 8 patent associated with the handsets, and the '326
- 9 patent, which is associated with the base stations.
- 10 Q. And at this time, did Wi-LAN know whether it
- 11 would be able to license the patents successfully?
- 12 A. No, it did not.
- 13 Q. What did Mr. Bakewell, the expert for
- 14 Alcatel-Lucent and HTC, say that the royalty payment to
- 15 Wi-LAN should be here for Alcatel-Lucent and HTC?
- 16 A. He said it should be clued off only the
- 17 purchase price that Wi-LAN paid to Airspan. So he said
- 18 the appropriate royalty that Alcatel-Lucent and HTC
- 19 should pay is a small portion of that \$11 million with a
- 20 slight return on top of that.
- Q. What return did Mr. Bakewell use?
- 22 A. He used the discount rate that was in this
- 23 memo that Mr. Parolin talked about that's useful for
- 24 other reasons.
- 25 He said the return over, in essence, a

- 1 seven-year period would be about 26 percent. That's not
- 2 an approach that I've seen used before in valuing
- 3 intellectual property, and it gives a number that's just
- 4 a fraction of the \$11 million.
- 5 Q. So if we use the example that Wi-LAN spent
- 6 \$10, what would Mr. Bakewell's rate of return be?
- 7 A. Well, the rate of return would be that 26 or
- 8 30 percent. He, in essence, says it should -- \$10 would
- 9 give you a return of 12 or \$13.
- 10 Q. Did you hear Mr. Parolin's testimony yesterday
- 11 that Wi-LAN sought a 10 to 20 times return on its
- 12 investments for patents that it acquired from Airspan?
- 13 A. Yes.
- 14 Q. And can you explain what the 10 to 20 times
- 15 return on investment means?
- 16 A. What Wi-LAN was hoping to receive wasn't this
- 17 20-percent return but a hundred- or 200-percent
- 18 return -- or actually, a thousand-percent return.
- 19 So what it was hoping and what it typically
- 20 invests in, if it invests, \$10, it's hoping, on a
- 21 successful project, to get a hundred dollars back.
- That's their business motel. That's a common
- 23 business model for people who own patents.
- Q. That seems really high to me. How do they get
- 25 10 to 20 times their investment?

- 1 A. They realize that they buy pieces of land, and
- 2 unfortunately, many of those pieces of land have no oil
- 3 underneath them, but some do.
- 4 Occasionally, the jury finds -- a jury finds
- 5 or a negotiating party finds that there are some patents
- 6 that they own that are very strong, and therefore, it is
- 7 entitled to a return associated with those.
- 8 So there are many, many dry pieces of land,
- 9 but there are some for which there's oil, and they
- 10 should get the adequate return on the land that has oil
- 11 under it.
- 12 Q. Let's go back to Slide 13, the chart that you
- 13 prepared that lists the comparables.
- 14 What's the next entry on the chart?
- 15 A. I looked fairly closely at a number of Wi-LAN
- 16 licenses.
- 17 Q. Now, help me understand, sir. You said
- 18 earlier that three of the Defendants -- or three of the
- 19 hypothetical negotiations would have occurred with
- 20 Airspan as opposed to Wi-LAN. So why are the Wi-LAN
- 21 licenses relevant?
- 22 A. Well, number one, the four hypothetical
- 23 involves Wi-LAN, but more importantly, the Wi-LAN
- 24 licenses give information of how participants in the
- 25 wireless business are valuing and pricing intellectual

- 1 property rights. So what have they agreed to?
- 2 So these Wi-LAN licenses exist over time, and
- 3 they give me information about what parties often agree
- 4 to for intellectual property rights that are either
- 5 similar to what we have here or actually include what we
- 6 have here.
- 7 Q. What Wi-LAN licenses did you consider relevant
- 8 in your analysis?
- 9 A. I considered the Wi-LAN licenses that included
- 10 the patents-in-suit and that were with major
- 11 manufacturers of handsets and base stations. And then
- 12 for some of the running royalties, they were some of the
- 13 smaller manufacturers.
- 14 But I focused on the lump-sum payments from
- 15 major manufacturers, companies like HTC and Sony Mobile
- 16 and Ericsson and Alcatel-Lucent.
- 17 Q. Now, were these licenses that you considered,
- 18 limited only to the patents-in-suit?
- 19 A. No. All of those licenses had broader
- 20 portfolios, so none of them, unfortunately, had just
- 21 these four patents.
- Q. And did you take that fact into consideration
- 23 in your analysis?
- A. Absolutely.
- Q. And what did you do?

- 1 A. I looked at making adjustments for the number
- 2 of patents that are at issue here and adjustments for
- 3 the size and nature of the parties that had entered
- 4 negotiations -- had entered licenses with Wi-LAN.
- 5 Q. Are you aware that the Defendants' experts
- 6 contend that many, if not all, of the Wi-LAN licenses
- 7 you considered are not comparable to the hypothetical
- 8 negotiation and, therefore, should not be considered at
- 9 all?
- 10 A. Yes. In fact, Mr. Bakewell concluded that
- 11 they're all irrelevant. There's not a single Wi-LAN
- 12 license that provides any assistance here.
- Dr. Becker, who's also representing the
- 14 Defendants, actually disagreed with Mr. Bakewell on that
- 15 and agrees with me; that is, that there is some value in
- 16 looking at these Wi-LAN licenses.
- 17 Q. In your experience, how common is it to find a
- 18 license that is perfectly comparable to the hypothetical
- 19 negotiation?
- 20 A. That almost never happens. Licenses are just
- 21 different from one another, just like houses are
- 22 different from one another or people are different from
- 23 one another. You have to adjust for those differences.
- 24 If there was something that was a perfect
- 25 comparable, then I don't think that we'd have a

- 1 litigation. It would be clear what the payment should
- 2 be.
- 3 Q. In your opinion, should the
- 4 less-than-perfectly-comparable licenses be ignored?
- 5 A. Absolutely not. One should look at the
- 6 licenses that are relevant to the situation at hand and
- 7 adjust them accordingly. That's what we experts are
- 8 asked to do, to assess those licenses -- licenses and
- 9 figure out if they're useful and how are they useful.
- 10 Q. And did you do anything to take into
- 11 consideration the differences between the Wi-LAN
- 12 licenses and the hypothetical negotiation?
- 13 A. Yes, I did.
- 14 Q. Now, you mentioned Mr. Bakewell a few minutes
- 15 ago. Excuse me.
- MS. ROSS: Strike that.
- Q. (By Ms. Ross) Now, did Mr. Bakewell rely on
- 18 any transactions involving the patents-in-suit?
- 19 A. No. As I mentioned a moment before, even
- 20 though there were Wi-LAN licenses that covered these
- 21 patents, he said all of those licenses are irrelevant.
- 22 They are not worth considering here.
- Q. What about the acquisition? Did he consider
- 24 the acquisition?
- 25 A. That's the only thing that he considered; that

- 1 is, that he used as a base for a damages determination.
- 2 And by acquisition, we're talking about the
- 3 Wi-LAN/Airspan acquisition.
- 4 Q. Do you agree with Mr. Bakewell that the patent
- 5 purchase agreement between Wi-LAN and Airspan should be
- 6 considered here?
- 7 A. Yes, it is worth considering.
- 8 Q. But is this agreement perfectly comparable to
- 9 the hypothetical negotiation?
- 10 A. No. It's different in very important ways
- 11 that we spoke of before.
- 12 There was no finding that these rights are
- 13 valid, enforceable, and infringed. And Wi-LAN was
- 14 intending to be and has been in a business that's very
- 15 different from the business of these four Defendants.
- Q. Well, let's start with the Wi-LAN licenses
- 17 that involved lump-sum payments.
- 18 MS. ROSS: If you could pull up Slide 14,
- 19 please.
- Thank you.
- Q. (By Ms. Ross) Does this slide show all of the
- 22 lump-sum payment -- or payments you found in the Wi-LAN
- 23 licenses?
- 24 A. These are the lump-sum payments associated
- 25 with Wi-LAN licenses with major manufacturers in the

- 1 wireless business.
- 2 Mr. Parolin talked about these licenses
- 3 yesterday. And I've just summarized in the chart what
- 4 the payments are, associated with those licenses; that
- 5 is, the lump-sum payments.
- 6 Q. And can you please summarize the range of the
- 7 lump-sum payments that were found?
- 8 A. At the low end, ZTE paid \$1.75 million. At
- 9 the high end, LG paid \$29 million.
- 10 Q. So should the jury just accept these numbers
- 11 and we all go home?
- 12 A. No. It's not so easy, unfortunately. We need
- 13 to look at those and figure out how comparable they are
- 14 to our hypothetical negotiation or how they should be
- 15 adjusted.
- MS. ROSS: Let's pull up 17, please.
- 17 Q. (By Ms. Ross) Does Jarosz 17 show the types of
- 18 quantitative adjustments that would be necessary in
- 19 making the existing lump-sum licenses comparable?
- 20 A. Yes. These are the three most important sets
- 21 of adjustments that should be made, the three on the
- 22 slide.
- MS. ROSS: Actually, let's go back to
- 24 Slide 14 for just a second, please.
- Q. (By Ms. Ross) Why did you find that these

- 1 licensees -- these licenses identified here on Slide 14,
- 2 that is, ZTE, Sharp, Huawei, Motorola Solutions,
- 3 Motorola Mobility, and LG, were comparable?
- 4 A. Because they included the patents-in-suit.
- 5 Most of these licenses, in fact, specifically call out
- 6 or mention the patents-in-suit, and they are licenses
- 7 with major manufacturers of handsets or base stations or
- 8 both.
- 9 Q. And did you consider any other licenses that
- 10 you found comparable with respect to running royalty
- 11 payments?
- 12 A. Yes. I found licenses with three other
- 13 parties, General Mobile, Casio, and Cal-Comp that had
- 14 running royalties that were useful in assessing what the
- 15 handset manufacturers should pay here.
- 16 Q. And why did you find that those were
- 17 comparable licenses?
- 18 A. Again, they included the patents-in-suit, just
- 19 like the ones on the screen do, and they were licenses
- 20 with companies that were in the handheld business.
- MS. ROSS: Let's go back to 17 now.
- Thank you, Jen.
- Q. (By Ms. Ross) All right. So in our
- 24 discussion, I'm -- excuse me.
- 25 So what quantitative adjustments did you --

- 1 are identified here on this chart?
- 2 A. Adjusting for the U.S. versus worldwide
- 3 portion of a license, adjusting for the size of the
- 4 various licensees, and looking to see how to assess
- 5 these four patents versus the larger portfolio of
- 6 patents that were licensed in those other transactions.
- 7 Q. So I want to skip ahead and talk about that
- 8 middle one, the relative size of the licenses.
- 9 How did you determine if the Defendants -- how
- 10 did you adjust for the relative size of the licensees?
- 11 A. I looked to see the nature of the licensees,
- 12 the companies that have entered licenses, and what their
- 13 shares were in the businesses at issue here.
- 14 Q. And when you say shares, what are you talking
- 15 about?
- 16 A. I'm talking about market share. So in one
- 17 instance, the market share is as close as I could get to
- 18 the base station business, and in the other, as close as
- 19 I could get to the handset business at issue here.
- Q. And where did you obtain this market
- 21 information?
- 22 A. From two different sources. The one is
- 23 Dell'Oro, which I spoke about before. That gave me
- 24 information on base station shares. And IDC, I also
- 25 talked about before, as did Mr. Parolin, gave me useful

- 1 information on handset market shares.
- MS. ROSS: Let's pull up 18, please.
- Q. (By Ms. Ross) Does this summarize the market
- 4 share comparison you did for the base stations at the
- 5 point of the negotiation for each of the licensees?
- 6 A. Yes. What this shows is -- ZTE, Huawei, and
- 7 Motorola Solutions were in the base station business;
- 8 and they had entered licenses with Wi-LAN. And you
- 9 could see at the point they entered the licenses, their
- 10 shares were modest, 0.1 percent, 2.4 percent, and 2.8
- 11 percent.
- 12 At the time of the hypothetical negotiation
- 13 here, Ericsson's share would be 20.9 percent and
- 14 Alcatel-Lucent's share would be 39.4 percent. In other
- 15 words, the two base station Defendants are significantly
- 16 larger than the three companies in the base station
- 17 business that have already entered licenses with Wi-LAN.
- 18 Q. What does the green bar represent?
- 19 A. The green bar represents the maximum share
- 20 since negotiation that, over time, Ericsson's share went
- 21 up and down as did Alcatel-Lucent's share.
- But at the height, the best that they were
- 23 doing, I reflected that in the green, the neon green
- 24 bars. So at its height, Ericsson comprised about
- 25 48.4 percent of the base station market; and

- 1 Alcatel-Lucent, at its height, comprised about
- 2 48.9 percent.
- 3 O. And why -- why is the max market share
- 4 important to this analysis?
- 5 A. Well, as the book of wisdom allows us to
- 6 consider how history has unfolded, I wanted to consider
- 7 how well Ericsson and Alcatel-Lucent have done over
- 8 time. I also looked at minimums and averages.
- 9 For this presentation, I've shown kind of the
- 10 highest they've been, but it certainly has been lower
- 11 than the green bars at various points in time. But the
- 12 book of wisdom asks us to consider all of history, from
- 13 the point in the negotiation through today.
- Q. And at the hypothetical negotiation, the
- 15 parties would have been aware of the maximum market
- 16 share as well; is that true, sir?
- 17 A. They're presumed to be aware through this book
- 18 of wisdom.
- 19 MS. ROSS: Let's pull up 19, please.
- Thank you.
- Q. (By Ms. Ross) What does this show?
- 22 A. This shows a similar analysis for the handset
- 23 manufacturers, and I've presented the unit shares here.
- 24 Huawei, Sharp, ZTE, HTC, Sony Mobile, and Motorola and
- 25 LG have all entered licenses with Wi-LAN. Some of those

- 1 were fairly small players in the handset business.
- Others: Sony, Sony Mobile, and LG were fairly
- 3 large.
- 4 The handset manufacturers we have here, HTC
- 5 and Sony Mobile, kind of fall in the middle; so versus
- 6 the ones on the left, they're doing better versus the
- 7 ones on the right doing not as well. So I needed to
- 8 adjust and the jury would need to adjust the lump-sum
- 9 payments with that in mind.
- 10 And just like with the other chart, I've
- 11 provided in the red the share of the two Defendants at
- 12 the point of negotiation and their maximum share over
- 13 time.
- Q. Could you read for me, sir, the shares that
- 15 you calculated and the market share information that you
- 16 calculated for the licensees and for the Defendants?
- 17 A. For the licensees, Huawei was 0.4 percent;
- 18 Sharp was 0.4 percent; ZTE was 0.5 percent; Motorola
- 19 Mobility was 7.1 percent; and LG was 18.4 percent.
- 20 With regard to the hypothetical negotiation,
- 21 the Defendants at issue here, HTC's share at negotiation
- 22 was 0.9 percent; and Sony Mobile was 1.2 percent. The
- 23 maximum share for HTC was 9.2 percent; and for Sony
- 24 Mobile, was 1.2 percent.
- 25 Q. Thank you.

1 Let's talk about your third adjustment on

- 2 Slide 20, please.
- 3 Did you also consider the value that the
- 4 patents had to Wi-LAN's wireless portfolio?
- 5 A. Yes. I looked -- I considered the new
- 6 number -- we're just talking about the four patents
- 7 here. And Wi-LAN's other licenses had a larger set of
- 8 patents. So I needed to adjust for the smaller set of
- 9 rights here.
- 10 Q. And how did you adjust for that smaller set of
- 11 rights?
- 12 A. Well, I relied on several things, but a very
- 13 important thing was the analysis that was contained in
- 14 the Houston/McEwan memo that you put on the screen a few
- 15 minutes ago that gave breakdowns of the incremental or
- 16 added value of the '211 patent, which is for the
- 17 handsets here, and the '326 patent, which is for the
- 18 base stations here. So I relied heavily on that memo.
- 19 MS. ROSS: Let's go to Slide 21, please.
- Q. (By Ms. Ross) Does this summarize the
- 21 apportionment factors that you obtained from the McEwan
- 22 memo at PX 20 or DX 60?
- 23 A. Yes. There were inputs from that memo, and
- 24 there was a bottom chart in that demonstrative slide
- 25 that you showed earlier where there were three different

- 1 kind of base handset rates.
- 2 And there are these -- are the '211 patent
- 3 would have an impact on that. It would raise that base
- 4 rate. So what it would raise the base rate by was from
- 5 13.2 percent up to 33 percent. That's what you see in
- 6 the blue bars.
- 7 On the base station side, there was just one
- 8 calculation. There was one base -- base station rate.
- 9 And the added amount associated with the '326 patent
- 10 was -- represents 28.6 percent.
- I believe, however, that these are probably
- 12 somewhat conservative.
- 13 Q. And these -- these numbers are related to the
- 14 wireless portfolio in 2009; is that correct?
- 15 A. That's exactly right.
- 16 Q. How did you calculate these percentages?
- 17 A. I simply took the added rate associated with
- 18 each of the two patents, divided by the rate that
- 19 existed before these two patents were added to the
- 20 portfolio.
- 21 Q. So with respect to the handset, the ranges in
- 22 the handsets, which factor is the best one to use?
- 23 A. Well, probably for the jury's consideration is
- 24 the 33.3 percent. The reason is, in that memo, it said:
- 25 Now that we've gotten the '211 patent or the '326

- 1 patent, we're able to add on to our royalties that we're
- 2 getting in the marketplace.
- In a hypothetical negotiation, we wouldn't be
- $4\,$  adding on the '211 or the '326 patent. Those would be
- 5 the patents. They would be the core patents that would
- 6 be licensed. And when you add a patent to a portfolio,
- 7 that has a much smaller effect and it should, than when
- 8 you just have the patent standing alone. And there's
- 9 literature that supports this.
- 10 Q. Let me show you what's on Jarosz 22. Who
- 11 wrote this article, sir?
- 12 A. Eric Stasik, who used to be head of property
- 13 licensing at Ericsson.
- Q. What does this article show?
- 15 A. There's a lot in this article, but the most
- 16 important message is what is underlined in the red. It
- 17 says: The incremental increase of each additional
- 18 patent is negligible.
- 19 In other words, he's pointing to Ericsson's
- 20 experience and experiences in the industry. When you
- 21 add a patent to a portfolio, it only adds a little bit,
- 22 but standing alone, it can be quite valuable.
- Q. So what does this mean for the hypothetical
- 24 negotiation here?
- 25 A. Well, one can consider the factors that I had

- 1 on the previous slide, but based on our understanding of
- 2 the value of patents, those numbers are probably a
- 3 little bit low. If the jury focuses on any particular
- 4 number for handsets, it should probably be the 33
- 5 percent as opposed to the 13.2 percent.
- 6 Q. So are the rates that come -- with respect to
- 7 the patents that are part of a portfolio that are
- 8 licensed, is their value linear with respect to the
- 9 license?
- 10 A. Absolutely not. And the economic literature
- 11 and licensing literature is filled with articles on this
- 12 point, that if you go from, say, four patents to eight
- 13 patents, that doesn't double a royalty rate from
- 14 1 percent to 2 percent.
- 15 It's a concept known as numeric
- 16 proportionality. That is, when you add on -- each
- 17 add-on becomes less and less versus the one before, to
- 18 the point at which some certain number of patents don't
- 19 increase the price at all, because there's enough of
- 20 a -- of a core existing already.
- 21 MS. ROSS: Let's go to Jarosz 23, please.
- Q. (By Ms. Ross) Does Jarosz 23 summarize the
- 23 implied lump-sum payments that you calculated for the
- 24 base stations after your adjustments that we just
- 25 discussed were made?

- 1 A. Yes. After adjusting for the size of the
- 2 various manufacturers and adjusting for the portion of
- 3 the -- of the portfolio here, you'll see the numbers,
- 4 the range of numbers reported here for the base station
- 5 manufacturers.
- 6 These do not have an adjustment for geography;
- 7 that is, allowing for the fact what we are talking about
- 8 here are U.S. patents and not Wi-LAN's worldwide patents
- 9 that were part of these other licenses.
- 10 Q. And so this graphic depicts what the parties
- 11 to the hypothetical negotiation would have considered
- 12 would be the appropriate range for a fully paid-up
- 13 lump-sum license; is that correct?
- 14 A. These are calculations of converting those
- 15 lump-sum payments to the hypothetical negotiation, and
- 16 they represent payments over the life of the patents.
- 17 So these are inputs to consider and they're
- 18 various alternative ways to make adjustments that are
- 19 reflected in this chart.
- 20 Q. Can you explain for the jury what the
- 21 different ranges that are depicted here represent?
- 22 A. They're really driven by which manufacturer is
- 23 adjusted. So there were different lump-sum fees for the
- 24 different manufacturers. And some suggest, in the case
- 25 of Alcatel-Lucent, for instance, a number closer to \$9.3

- 1 million, and some suggest a number closer to \$27.5
- 2 million. So it depends on the inputs, and there are
- 3 several different inputs.
- 4 So rather than just focusing on one party at
- 5 one time, I looked at all the relevant information.
- 6 That's why I came up with this range.
- 7 Q. And on the left-hand side of the column where
- 8 it says max share, negotiation share, and average share,
- 9 can you tell us what that means?
- 10 A. Those were related to the bar charts that we
- 11 saw before where I had the red bar and the neon green
- 12 bar. So max share is the maximum share that one of
- 13 these Defendants had in the period at issue.
- 14 Negotiations share would be at the point of
- 15 their hypothetical negotiation, and average share would
- 16 be during that period.
- 17 Q. Okay. Can you run the jury through these
- 18 numbers that you calculated?
- 19 A. Sure. For Alcatel-Lucent, the range for the
- 20 max share is 9.3 million to 27.5 million. The
- 21 negotiation share is 7.5 million to 22.2 million. And
- 22 the average share is 7.6 million to 22.7 million.
- For Ericsson, for the maximum share, the range
- 24 is 9.2 million to 27.2 million. For the negotiation
- 25 share, the range is 4 million to 11.8 million. And for

- 1 the average share, the range is 5.6 million to 16.6
- 2 million.
- 3 MS. ROSS: Let's pull up 24, please.
- 4 Q. (By Ms. Ross) Does this summarize the lump-sum
- 5 payments you calculated for handsets after the
- 6 adjustments that we discussed before?
- 7 A. Yes, exactly. This is the same kind of
- 8 approach. The ranges are similar -- similarly exist for
- 9 the reasons we talked about before.
- 10 The one new thing in this chart for the
- 11 handset manufacturers is the high portfolio adjustment
- 12 and low portfolio adjustment. Remember in that bar
- 13 chart, 33.3 percent, the one I think is probably more
- 14 appropriate, corresponds to the high portfolio
- 15 adjustment, and the 13.2 percent, I think it was,
- 16 corresponds to the low portfolio adjustment.
- 17 So I have a few more numbers because there
- 18 were a few more inputs.
- 19 Q. Can I ask you to run through the numbers,
- 20 please?
- 21 A. Yes.
- 22 For Sony Mobile, max share high portfolio is
- 23 .6 million to 4.6 million. The negotiation share is .6
- 24 million to 4.6 million. And the average share is .4
- 25 million to 2.9 million. Those are all for the high

- 1 portfolio adjustment.
- 2 For the low portfolio adjustment, the maximum
- 3 share is .2 million to 1.8 million. The negotiation
- 4 share is .2 million to 1.8 million. And the average
- 5 share is .1 million to 1.1 million. Those were for all
- 6 the Sony Mobile numbers.
- 7 For HTC, the numbers are larger and the ranges
- 8 are a little bit broader. For the high portfolio
- 9 adjustment, the maximum share is 4.4 million to 42
- 10 million. The negotiation share is .4 million to 5.3
- 11 million. The average share is 2 million to 20.5
- 12 million.
- 13 For the low portfolio adjustments, the number
- 14 for the maximum share is 1.7 million to 16.6 million.
- 15 For the negotiation share, it's .5 million to 2.1
- 16 million. For the average share it's .8 million to 8.1
- 17 million.
- 18 Q. Now, with respect to HTC, the disparity is
- 19 quite large for the max share.
- 20 A. Yes, it is.
- Q. Can you explain that, please?
- 22 A. Yes. It's really driven by the fact that HTC,
- 23 since negotiation, has been very successful and then
- 24 less successful. At the time of negotiation, it had a
- 25 very modest share; and then I think as many of us

- 1 consumers know, there have been a lot of ads for HTC
- 2 phones. And they've been successful in the marketplace.
- Now their success is dwindling some, but in
- 4 2012, it was a very successful company. So since
- 5 infringement began, it has gone from being modestly
- 6 successful to very successful.
- 7 Q. With respect to the handsets, did you also
- 8 consider the Wi-LAN licenses that have royalties?
- 9 A. Yes, I did.
- 10 Q. And what were the rates for those licenses?
- 11 A. Basically, they ran from .25 to .5 cents.
- 12 Q. Okay. And that's cents per unit?
- 13 A. Cents per unit.
- 14 Q. Are the --
- 15 A. I'm going to change that. It's \$.25, which is
- 16 25 cents per unit. I misspoke. I apologize.
- 17 Q. Fair enough.
- 18 A. So it's 25 to 50 cents per unit.
- 19 Q. Thank you for clarifying.
- 20 Are the companies that entered running royalty
- 21 agreements with the Plaintiff the same size as the
- 22 Defendants?
- 23 A. No. They're all small companies. General
- 24 Mobile -- at least in the -- in the handset business,
- 25 Casio, General Mobile, and -- it might be pronounced

- 1 General Mobile, and CalAmp are fairly insignificant
- 2 players in the business.
- Q. Does it matter to your analysis that some of
- 4 these licensees paid very little in terms of dollar
- 5 amounts under the terms of their running royalty rate
- 6 agreements?
- 7 A. No. If their success was low, they shouldn't
- 8 have to pay much in terms of royalty. If their success
- 9 was high, they would have paid a lot. But they were
- 10 very modest in their success; and, therefore, I would
- 11 expect the royalty -- the ultimate royalty payments to
- 12 Wi-LAN to be low.
- 13 Q. Let's talk about the running royalties for
- 14 handsets for a moment.
- Does a running rate automatically account for
- 16 the differences in size?
- 17 A. Yes, it does. So that if a company is very
- 18 successful, sells lots of units -- if they sell a
- 19 hundred units, they're going to pay a higher royalty
- 20 than if they sell ten units. So the size adjustment is
- 21 already built in.
- 22 Q. Do you need to make a geographical adjustment
- 23 for the running royalty licenses?
- 24 A. Not if you look at U.S. sales or worldwide
- 25 sales. In this case, we're looking at U.S. sales. So

- 1 if I just apply those royalty rates to U.S. sales that
- 2 are at issue here, there's no additional need to adjust
- 3 for geography.
- 4 Q. How do you use these running rates to inform
- 5 your lump-sum payment?
- 6 A. Well, they were inputs, too, of the lump-sum
- 7 payments, and they're information that the jury could
- 8 and should consider in coming to a number here.
- 9 I did come up with a chart that summarized
- 10 those, but I don't know that we need to cover that.
- 11 Q. Oh, I'd like to pull it up.
- MS. ROSS: Slide 26.
- Q. (By Ms. Ross) Is this what you're referring
- 14 to?
- 15 A. Yes.
- Q. Could you run the jury through these numbers,
- 17 please?
- 18 A. Sure. For Sony Mobile, you see the numbers on
- 19 the left; for HTC, you will see the numbers on the
- 20 right.
- 21 Again, as I did before, I did a high portfolio
- 22 adjustment and low portfolio adjustment, what we talked
- 23 about before. And here we don't really know what the
- 24 sales will be through trial. We don't -- we didn't have
- 25 full records from the Defendants through trial. So I

- 1 had to make some assumptions through trial or through
- 2 life of the patent as to what those numbers would be.
- 3 And so that's why you see no growth and growth
- 4 assumptions built in.
- 5 For Sony Mobile, the numbers are .2 million to
- 6 .5 million in the no-growth high portfolio adjustment.
- 7 And then the growth adjustment scenario is .4 million to
- 8 .7 million. In the low portfolio adjustment scenarios,
- 9 the no-growth number is .1 million to .2 million. And
- 10 the growth numbers are .1 million to .3 million.
- 11 HTC on the right, again, has higher numbers.
- 12 They've had more success in the business. For the high
- 13 portfolio adjustment numbers, no growth is 3.9 million
- 14 to 7.6 million. The growth scenario has 4.8 million to
- 15 9.4 million. The low portfolio adjustment scenarios for
- 16 no growth has 1.5 million to 3 million. And the growth
- 17 scenario, 1.9 million to 3.7 million.
- 18 Q. Now, you said that you didn't have some actual
- 19 data for Sony Mobile. How did the sales data for the
- 20 models produced by Sony Mobile compare to the IDC Sony
- 21 Mobile sales estimates.
- 22 A. Yeah. I'm not sure if I said that explicitly.
- 23 I had pretty good data for HTC. Sony Mobile, it was
- 24 less good data. They didn't appear to be able to
- 25 provide information on all the infringing models.

- 1 What they did provide seemed to be about
- 2 57 percent of what is in the IDC reports, so I used the
- 3 IDC data for the sales information.
- 4 Q. Are you aware that the Defendants contend that
- 5 there are many components of the accused products that
- 6 do not use the technology at issue?
- 7 A. Yes.
- 8 Q. Do the Wi-LAN licenses here for running
- 9 royalties that you considered, does that take that fact
- 10 into consideration?
- 11 A. Yes, because the royalty rates are just a
- 12 portion of revenues. It adjusts for the fact -- the
- 13 rate automatically adjusts for the fact that there are
- 14 other things that contribute value.
- 15 And I don't -- certainly don't dispute that
- 16 here. There are many drivers of value here. HSDPA is
- 17 important, but there are other things. But the running
- 18 royalties reflect the significance of some of the
- 19 inventions to the products at issue.
- Q. Were the licenses involving the Wi-LAN patents
- 21 limited to the patents-in-suit only?
- 22 A. No. They were broader.
- 23 Q. And did you take this fact into consideration
- 24 in your analysis?
- 25 A. Yes. We talked earlier about the

- 1 Houston/McEwan memo that has adjustments for the
- 2 wireless portfolio. That's built in the analysis that
- 3 I've done.
- 4 Q. And that adjustment is reflected here on this
- 5 page?
- 6 A. Yes.
- 7 Q. And then on the preceding pages where we
- 8 looked at the lump sum, that fact was taken into
- 9 account?
- 10 A. Absolutely.
- 11 Q. Okay.
- 12 MS. ROSS: Let's return to Jarosz 27,
- 13 please.
- Q. (By Ms. Ross) So the last item on the chart
- 15 was both the Defendants' licenses. Did you find any of
- 16 the Defendants' licenses particularly useful?
- 17 A. I found them somewhat useful, but none of
- 18 them, of course, covered the patents-in-suit, because
- 19 that's why we're here. There is no license.
- 20 There were licenses covering a variety of
- 21 wireless technologies, and I looked at those. Some had
- 22 lump sums; some had royalties. I found those useful,
- 23 but not as useful as the Wi-LAN licenses.
- Q. Did this make the Defendants' licenses more or
- 25 less informative than the Wi-LAN licenses?

- 1 A. Less informative, although those licenses
- 2 tended to have lump-sum fees and running royalties that
- 3 were higher than the Wi-LAN licenses. But they were --
- 4 they were less useful than looking directly at the
- 5 Wi-LAN licenses.
- 6 Q. Did you still consider the Defendants'
- 7 licenses?
- 8 A. I did, yes.
- 9 Q. Were all of the Defendants' agreements one in
- 10 which one party licenses patent rights in exchange for a
- 11 lump sum or running royalty?
- 12 A. No. There were a number of license that --
- 13 that are what are called a cross-licenses; one party
- 14 gave its entire portfolio to another party; and that
- 15 second party gave its portfolio back, for instance.
- 16 Those are called cross-licenses where rights
- 17 are going both ways. Those are somewhat less relevant.
- 18 They're just more complicated.
- 19 There are some licenses in which rights went
- 20 one way and payment went back the other way. Those are
- 21 a little bit more helpful.
- Q. Let's turn now to your other quantitative
- 23 analysis, which I believe is the income approach. Can
- 24 you explain what the income approach is?
- 25 A. The income approach basically looks at the

- 1 advantages or success realized by the Defendant and
- 2 figures out what is revealed about the significance of
- 3 the patents in the success of the Defendants in the
- 4 marketplace.
- 5 Q. How did you determine what benefits the
- 6 Defendants received from using the Wi-LAN patents?
- 7 A. Well, I sought to see if there were a set of
- 8 products that practiced the -- that practiced the HSDPA
- 9 technology versus a set of products that didn't.
- 10 So that would give me what we call a natural
- 11 experiment, that I have three products that incorporated
- 12 HSDPA and three other products that were roughly the
- 13 same thing, except they didn't have HSDPA.
- 14 Unfortunately, I didn't have that. I couldn't
- 15 run that natural experiment.
- 16 Q. Did you hear Dr. Wells' testimony earlier that
- 17 the patents-in-suit were essential in order to practice
- 18 HSDPA?
- 19 A. Yes.
- 20 Q. So given Dr. Wells' testimony, would the
- 21 Defendants' next best alternative have been to remove
- 22 the technology covered by the patents-in-suit and still
- 23 sell products that comply with HSDPA functionality?
- 24 A. They, perhaps, technically could do that; but
- 25 it wouldn't be sellable in the marketplace. It wouldn't

- 1 comply with the HSDPA requirements. It would go to a
- 2 previous generation technology or a different technology
- 3 if you stripped out these patents.
- 4 Q. Would customers have purchased products that
- 5 did not comply with HSDPA standard?
- 6 A. No. And Dr. Wells talked about that at some
- 7 length, saying there would have to be a reversion back
- 8 to previous technology or adoption of a whole new
- 9 technology platform, and customers wouldn't be agreeable
- 10 to do that.
- 11 Q. Did you see, for example, any testimonial
- 12 evidence that suggested that non-HSDPA products would be
- 13 acceptable?
- 14 A. I saw testimony on that point and found that
- 15 the Defendants here are of the belief and knowledge that
- 16 HSDPA is critical in the marketplace.
- 17 Q. All right. Let's run through some of that
- 18 testimony.
- 19 MS. ROSS: Let's pull up Jarosz 29,
- 20 please.
- Q. (By Ms. Ross) What did you understand
- 22 Mr. Irving to say?
- 23 A. Well, he says a lot here, but, in essence,
- 24 he's saying that operators -- U.S. operators have to
- 25 have HSDPA to compete and sell base stations in the

- 1 marketplace.
- 2 In other words, their base stations,
- 3 Alcatel-Lucent, have to practice HSDPA.
- 4 Q. And could you read the last answer for me,
- 5 please?
- 6 A. Without -- without 3GPP releases, without
- 7 following the sequence of 3GPP releases, without
- 8 developing the functionality that was required by them,
- 9 we would stop selling base stations.
- 10 Q. Did you see similar testimony from Ericsson?
- 11 A. Yes, I did.
- 12 MS. ROSS: Let's pull up 30, please.
- 13 Q. (By Ms. Ross) What did Mr. Rylander say?
- 14 A. In essence, that they would not be able to
- 15 sell base stations to AT&T and T-Mobile, their two
- 16 biggest customers, if they were not HSDPA compliant.
- 17 In other words, AT&T and T-Mobile require
- 18 HSDPA compliance. If those were stripped out, Ericsson
- 19 couldn't sell base stations to those.
- 20 Q. Did you see similar testimony for the handset
- 21 manufacturers?
- 22 A. Yes, I did.
- MS. ROSS: May I have 31, please?
- Q. (By Ms. Ross) What does this show?
- 25 A. This is testimony from a Mr. Wu at HD -- HTC

- l in which he talks about the fact that the phones that
- 2 they provide to AT&T must perform HSDPA. You'll see it
- 3 in the middle of this section and -- middle of this
- 4 excerpt and lower down.
- 5 T-Mobile down below, AT&T above require
- 6 compliance with HSDPA.
- 7 Q. So did you understand this to mean that if a
- 8 phone manufacturer wants to supply AT&T and T-Mobile,
- 9 they must comply with HSDPA?
- 10 A. Yes.
- 11 Q. Are you aware that the Defendants argue that
- 12 there were existing alternative technologies that the
- 13 Defendants could have used instead of HSDPA?
- 14 A. Yes. I think they talked about Release 99,
- 15 EDGE, and EV-DO, and I think Dr. Wells addressed those
- 16 alternatives.
- 17 Q. And what do you understand Dr. Wells to have
- 18 said about those alternatives?
- 19 A. He said those alternatives either were older
- 20 generation and, therefore, don't provide the advantages
- 21 to the carriers or to the consumers that are needed; or
- 22 they're a whole technology platform, for example,
- 23 switching everything to CDMA. And that would be, as I
- 24 understand it, financially unacceptable to the parties
- 25 here.

- Q. Well, let me show you Slide 32, please, which
- 2 corresponds with DX 145. What does this document show?
- 3 A. It comes from the Lucent files, which are
- $4\,$  talking about the HSPDA. We have a typo there. It
- 5 talks about the business impact.
- 6 HSDPA met Cingular's critical business needs
- 7 against their CDMA competitors, and HSDPA became
- 8 Cingular's number one feature priority.
- 9 Cingular, of course, became AT&T.
- 10 Compared with their legacy GSM/GPRS/EDGE,
- 11 HSDPA provides significant improvement in spectral
- 12 efficiency and systems throughput.
- 13 It goes on to say that HSDPA led to Lucent's
- 14 Cingular trial and contract, which was critical to keep
- 15 Lucent in the UMTS business.
- 16 So it says HSDPA was essential for Lucent --
- 17 which became Alcatel-Lucent -- to comply with the
- 18 requirements of AT&T; and HSDPA was Cingular, or AT&T's,
- 19 number-one feature priority.
- MS. ROSS: Let's pull up 33, please.
- Q. (By Ms. Ross) What did Mr. Irving say about
- 22 this as well?
- 23 A. Mr. Irving of Alcatel-Lucent was asked if they
- 24 can sell base stations to customers who operate a W-CDMA
- 25 network in the U.S. if those do not support HSPA. And

- 1 the answer, no, they have to be compliant.
- MS. ROSS: Let's turn to 34, please.
- 3 Q. (By Ms. Ross) Can you read for me what
- 4 Mr. Zucker said about the feasibility of retreating to
- 5 EDGE technology?
- 6 A. Yes. EDGE was the previous technology, and
- 7 Mr. Zucker of Alcatel-Lucent was asked: Okay. And are
- 8 you familiar with something called EDGE technology?
- 9 Answer: Yes, I am.
- 10 Question: So what I'm trying to explore with
- 11 you is whether you think any of the older technologies,
- 12 such as EDGE or GSM, would be regarded as an acceptable
- 13 alternative to HSDPA by any of your customers since
- 14 2007?
- 15 Answer: No.
- Q. So if these are not good alternatives, how did
- 17 you then go about doing an income approach analysis for
- 18 base stations?
- 19 A. Well, it was really hard to do, because I
- 20 didn't have a very good next best alternative, because
- 21 they needed -- they being the base station and --
- 22 manufacturers -- needed to comply -- needed to practice
- 23 HSDPA.
- 24 So what I did is, I focused my attention on
- 25 just the software sales associated with HSDPA; that is,

- 1 a base station is hardware and software. I focused my
- 2 attention just on what the Defendants have agreed is the
- 3 smallest saleable unit, the software here; and it sought
- 4 to determine the success of that software in the
- 5 marketplace.
- 6 MS. ROSS: Let's pull up Jarosz 35,
- 7 please.
- 8 Q. (By Ms. Ross) How much revenue did
- 9 Alcatel-Lucent earn from selling HSDPA software?
- 10 A. Just over the period from October 2 -- or --
- 11 or from -- yes -- October 2010 through April 2013, they
- 12 made about \$120 million just in HSDPA software sales for
- 13 their base stations.
- 14 Q. How did you determine the revenue
- 15 Alcatel-Lucent earned from selling HSDPA software?
- 16 A. That came from Alcatel-Lucent records, and it
- 17 was the information that Mr. Bakewell summarized and
- 18 used as well.
- 19 Q. Now, did Alcatel-Lucent provide information
- 20 regarding profit margins specific to HSDPA software?
- 21 A. Unfortunately, it did not. It provided profit
- 22 margins for W-CDMA software generally, so that's the
- 23 profit margin that I use in the green box.
- Q. And that's 62 percent.
- 25 A. That's 62 percent, yes.

- 1 Q. And -- and just so that I understand, that's a
- 2 calculation that you performed based on their W-CDMA
- 3 business?
- 4 A. Yes. That's from the records that they
- 5 provided.
- 6 Q. In your experience, are software profit
- 7 margins typically higher or lower than W-CDMA profit
- 8 margins that you used in your calculation here?
- 9 A. Typically higher. Software margins --
- 10 software products generate some of the highest margins
- 11 in any business. It doesn't take much effort to stamp
- 12 out software and send it. It takes some effort, but
- 13 it's much less effort than what's required on the
- 14 hardware side of any business.
- So 62 percent is probably an underestimate of
- 16 the software margin appropriate here.
- 17 Q. Did you provide a similar calculation with
- 18 respect to Ericsson?
- 19 A. I was unable to, because I don't have the
- 20 breakdown of Ericsson's HSDPA software sales.
- 21 Q. Is all of the profit that is depicted --
- 22 actually, why don't you just run me through this slide
- 23 and what this slide says.
- A. So if you take the \$120 million in revenues
- 25 that Alcatel-Lucent realized from HSDPA software sales,

- 1 multiply it by their profit margin of 62 percent, you
- 2 arrive at profits that Alcatel-Lucent made over this
- 3 damages period of \$74.4 million.
- 4 Q. Now, all of this profit that's here, this \$74
- 5 million, that's not all due to the patents-in-suit, is
- 6 it, sir?
- 7 A. No, it's not all due to the patents-in-suit,
- 8 but if there was no compliance with HSDPA, the software
- 9 sales wouldn't be made. It's HSDPA software. But there
- 10 are other features that add value. There's no dispute
- 11 about that.
- 12 Q. So then how is this number relevant?
- 13 A. It suggests that the numbers that were arrived
- 14 at in the market approach section are reasonable,
- 15 probably conservative; that is, the profits at issue for
- 16 Alcatel-Lucent are quite high.
- 17 I know that number is too high for damages
- 18 here, but they say the market approach numbers could be
- 19 fair, perhaps conservative estimates.
- Q. And now, this calculation focuses on profits
- 21 associated with HSDPA only. Are there other profits
- 22 that Alcatel-Lucent and Ericsson might have lost had
- 23 they decided not to sell HSDPA software?
- 24 A. Yes. I -- the base station -- the whole base
- 25 station profits are likely at issue as well, because we

- 1 saw the testimony from the Defendants that they wouldn't
- 2 be able to sell base stations if the hardware and
- 3 software didn't comply with HSDPA.
- 4 And those base station revenues, the hardware
- 5 revenues, are much higher than the software revenues.
- 6 Q. And you come to that conclusion based on the
- 7 testimony of the Defendants that you heard?
- 8 A. Yes, and my understanding of the technology
- 9 and the products offered here.
- 10 Q. So let's discuss the income approach for the
- 11 handsets. What alternative handset products could HTC
- 12 and Sony Mobile have sold if they couldn't offer HSDPA?
- 13 A. I'm not sure they could offer any. I saw
- 14 representations that the Defendants believe that maybe
- 15 you could try Release 99 or EDGE or EV-jDO, earlier
- 16 generation or other platforms; but that doesn't seem to
- 17 be feasible for HTC or Sony Mobile.
- 18 Q. And did you hear Dr. Wells' testimony earlier
- 19 regarding whether these CDMA-based technologies, such as
- 20 EV-DO and EDGE would be a good alternative?
- 21 A. He talked about those and said that would be
- 22 either -- some of those would be earlier generation, but
- 23 more importantly, that's a whole different platform.
- 24 That would be this -- versus W-CDMA or GSM
- 25 platform, it would be going to a CDMA platform, and that

- 1 would take substantial effort to convert over to that
- 2 new platform.
- 3 Q. So why couldn't a customer who had bought an
- $4\,$  HSDPA phone from Sony Mobile or HTC just switch to a
- 5 CDMA carrier like Verizon and buy a CDMA phone from Sony
- 6 Mobile or HTC instead?
- 7 A. Studies have shown most of us consumers are
- 8 pretty bought in and pretty loyal to the networks that
- 9 we're on. So for a Sprint customer, we stay with
- 10 Sprint. We may change our handsets over time, but we
- 11 tend not to change our carriers. Some of us do, but the
- 12 vast majority of us do not.
- 13 Q. Let me show you Jarosz 36. What does this
- 14 document show?
- 15 A. It shows what I was just describing from Sony
- 16 Mobile. They have come to the conclusion that U.S.
- 17 consumers tend to be locked in by networks rather than
- 18 being actively loyal.
- In other words, once I'm on a Sprint network,
- 20 I stay with that Sprint network for a long time or
- 21 Verizon or AT&T. We tend to stick with our networks and
- 22 switch within those networks.
- Q. And this is just based on consumer -- consumer
- 24 preferences?
- 25 A. Yes, and consumer behavior.

- 1 MS. ROSS: Let's pull up 37, please.
- Q. (By Ms. Ross) Does -- what does Slide 37 say
- 3 to you?
- 4 A. It shows that if HTC and Sony Mobile would
- 5 switch to a different technology -- I can stay on my
- 6 same network, the Sprint network, for instance, and I
- 7 have lots of alternatives to handsets.
- 8 HTC and Sony Mobile only comprise about
- 9 7 percent of the business over this time. I can go to
- 10 plenty of other alternatives, Samsung and Apple, and
- 11 there are a number of alternatives.
- 12 So I wouldn't need to stick with HTC knowing
- 13 everything would need to be changed and my prices would
- 14 go up. I would just go to an alternative that offers a
- 15 handset on my network of choice.
- 16 Q. And I believe in your answer, you used
- 17 Verizon. Did you mean to say AT&T or T-Mobile?
- 18 A. I meant to identify all of them, yes.
- 19 Q. So if -- as you've described, if the prior
- 20 generation phones would not be a good alternative, then
- 21 how did you use -- how did you approach your income
- 22 approach?
- 23 A. Well, I looked at -- I looked at a price
- 24 comparison of phones that comply with HSDPA versus
- 25 phones that do not. And fortunately, I had older

- 1 information that I could compare with the newer
- 2 information and see the price differences.
- 3 MS. ROSS: Let's pull up 38, please.
- 4 Q. (By Ms. Ross) Does this slide show the
- 5 calculation that you performed?
- 6 A. Yes. It shows that for handsets, phones, that
- 7 are HSDPA compliant versus the phones that were not, the
- 8 price difference is about a hundred dollars.
- 9 In other words, I pay about a hundred dollars
- 10 more for an HSDPA-compliant handset. That's what's
- 11 shown in the blue box.
- 12 Then I multiply that by the profit margins for
- 13 the handset manufacturers here, HTC and Sony Mobile, and
- 14 that's about 20 percent -- so those margins are much
- 15 lower than software margins -- to arrive at an
- 16 incremental profit per unit of \$20.
- 17 In other words, they made, because of their
- 18 ability to sell HSDPA phones, about \$20 more per phone.
- 19 Q. Now, is all of that \$20 attributable to the
- 20 patents-in-suit?
- 21 A. Absolutely not. There are many other features
- 22 of a phone. HSDPA is only one set of features.
- Q. So how does this 20-dollar-per-unit figure
- 24 compare to the per-unit rates that you found with
- 25 respect to the Wi-LAN licenses that included the

- 1 patents-in-suit?
- 2 A. It's appreciably higher. You'll remember
- 3 those Wi-LAN patents had running royalty rates that were
- 4 in the range of 25 to 50 cents, so they're a small
- 5 fraction of the \$20 here.
- 6 Q. And the lower rates for the Wi-LAN licenses
- 7 that you calculated, that takes into account the smaller
- 8 portion that is required to isolate the patents-in-suit?
- 9 A. Exactly.
- 10 Q. So if you wanted to convert this
- 11 20-dollar-per-unit lump-sum figure so that you could
- 12 compare it with the lump-sum license agreements, what
- 13 would you do?
- 14 A. You'd multiply it by the number of units sold
- 15 by HTC and Sony Mobile over the period at issue.
- 16 Q. Okay.
- MS. ROSS: Let's pull up Slide 39,
- 18 please.
- 19 Q. (By Ms. Ross) Did you review documents that
- 20 were produced by the Defendants that told you how many
- 21 accused units there were?
- 22 A. Yes. We talked about this a little bit
- 23 earlier. I had HTC documents that were fairly reliable.
- 24 The Sony Mobile documents seemed to be an underestimate,
- 25 so I relied on the IDC reports for those data.

Q. And how many infringing handsets were sold

- 2 by -- by HTC, for example?
- 3 A. 13.8 million.
- Q. Okay. And the 13.8 million, that's from the
- 5 period beginning in October of 2010 through April of
- 6 2013?
- 7 A. Exactly.
- 8 Q. And the unit sales for Sony Mobile, I believe
- 9 you said you had to calculate that number?
- 10 A. Yes.
- 11 Q. Okay. And you calculated that number to be
- 12 what?
- 13 A. 1.4 million units.
- Q. And, again, that 1.4 million units is
- 15 beginning in time, in October of 2010 through April of
- 16 2013; is that true?
- 17 A. Yes, that's true.
- 18 Q. So multiplying the 20-dollar figure, what does
- 19 that equate on a lump-sum basis?
- 20 A. For AT -- I'm sorry -- for HTC, it results in
- 21 \$276 million; for Sony Mobile, \$28 million.
- Q. Okay. So we've talked about the market and
- 23 income approaches. What was the third approach that you
- 24 undertook?
- 25 A. It's called the cost approach.

- 1 Q. Okay. And what is the cost approach, sir?
- 2 A. One looks to see how much effort it would take
- 3 for a company --
- 4 THE COURT: Before you go into that,
- 5 we've been going a pretty long time. I think we'll go
- 6 ahead and take our morning break at this time. We'll be
- 7 in recess until five minutes after 11:00.
- 8 COURT SECURITY OFFICER: All rise for the
- 9 jury.
- 10 (Jury out.)
- 11 (Recess.)
- 12 COURT SECURITY OFFICER: All rise for the
- 13 jury.
- 14 (Jury in.)
- THE COURT: Please be seated.
- 16 All right. You may proceed.
- MS. ROSS: Thank you, Your Honor.
- 18 Q. (By Ms. Ross) So, Mr. Jarosz, when we left
- 19 off, you were about to tell us what the cost approach
- 20 method is.
- 21 A. Yes. It entails considering how much it would
- 22 cost to design-around or come up with an alternative to
- 23 the patents. So can you accomplish the same download
- 24 speed and efficiency that would be required by the
- 25 operators and consumers but use a different approach.

- 1 So that is a way to measure or price
- 2 intellectual property, because I wouldn't pay much money
- 3 for something that's easy to design-around, but I would
- 4 pay a lot of money for something that's hard to
- 5 design-around.
- 6 MS. ROSS: Let's pull up 40, please.
- 7 Q. (By Ms. Ross) What technological alternatives,
- 8 if any, do the Defendants' experts, Mr. Bakewell and Dr.
- 9 Becker, claim would have been available?
- 10 A. They're the ones we talked about before the
- 11 break, Release 99, EDGE, and EV-DO.
- 12 Q. And would those have been acceptable?
- 13 A. No. For the reasons we talked about before,
- 14 largely reliant on Dr. Wells' testimony; but also based
- 15 on my knowledge of the business place, it appears that
- 16 those would either be steps backward or retreat in
- 17 technology or an adoption of a very expensive new
- 18 platform.
- 19 Q. So let's jump ahead and talk about your
- 20 qualitative approach.
- MS. ROSS: And let's pull up 44, please.
- Q. (By Ms. Ross) Does this identify the
- 23 qualitative factors that you considered?
- 24 A. Yes. These are the same Georgia-Pacific
- 25 Factors that we talked about earlier. It's a list of 15

- 1 factors that are useful in assessing a hypothetical
- 2 negotiation and a hypothetical license. I considered
- 3 those here.
- 4 Q. And why do you use or why do you refer to
- 5 these as qualitative factors?
- 6 A. Well, most of them are less agreeable to
- 7 having data with them or observations that economists
- 8 love, but they're factors that are important in a
- 9 negotiation nonetheless, things that impact bargaining
- 10 power.
- 11 Q. For example, say, No. 5, the commercial
- 12 relationship between the licensor and the licensee, is
- 13 that one example?
- 14 A. Yes. It's hard to pin the dollar amount on
- 15 the fact that you and I are vigorous competitors, but
- 16 the fact that we are vigorous competitors says we
- 17 wouldn't license one another at very agreeable rates.
- 18 Q. Now, did you evaluate every single factor
- 19 here?
- 20 A. Yes, I did.
- 21 Q. Did you compare the factors here to the
- 22 quantitative approach you previously performed?
- 23 A. Yes. I used them to help me assess that
- 24 quantitative information to help assess when the numbers
- 25 should be toward the lower end or higher end or how to

- 1 interpret some of the significance of some of the
- 2 quantitative data.
- 3 Q. Can you describe for me which factors you gave
- 4 little significance to because of the neutral effect of
- 5 them?
- 6 A. Well, I gave significance to all of them; but
- 7 in the quantitative approach, I already addressed a
- 8 number of them so the jury won't have so sit through me
- 9 describing several of them. 1, 2, 4, 5, 8, and 14 were
- 10 already addressed in my earlier testimony, either in
- 11 implementing the quantitative approach or interpreting
- 12 that.
- 13 So there are only a few that are new that the
- 14 jury hasn't heard as much about.
- 15 Q. Okay. Let's discuss the first factor that --
- 16 that did not -- that we're not going to talk about -- or
- 17 that we are going to talk about. I think it was the
- 18 nature and scope of the license, Factor 3; is that
- 19 correct?
- 20 A. Yes, it is.
- Q. Okay. How is this relevant to your analysis?
- 22 A. The hypothetical license here would be over
- 23 valid, enforceable, and infringed patent rights, if the
- 24 jury comes to that conclusion.
- 25 That makes any of the observations from

- 1 market -- the market approach too low, because in all of
- 2 those, there were licenses entered when there was a
- 3 cloud of uncertainty. Here, that cloud of uncertainty
- 4 would be removed; and a payment must, because of that
- 5 reason alone, be higher than a real-world payment.
- 6 Q. I think the next factor that you -- you left
- 7 off of your list of things that were neutral was No. 6,
- 8 the convoyed sales.
- 9 What does that mean?
- 10 A. It asks the question: Were there additional
- 11 things that were sold along with the products at issue
- 12 that benefited the Defendants?
- In the case of handsets, they were fairly
- 14 somewhat un-significant: Carrying cases and chargers
- 15 and batteries and protectors. Those kinds of things HTC
- 16 and Sony Mobile might have sold some additional, because
- 17 it sold more phones, but not in a way that mattered
- 18 much.
- 19 With regard to the base stations, however, the
- 20 impact is a little bit more noticeable. And, that is,
- 21 if we are just focusing on the software sales, as the
- 22 testimony we've seen suggests, the hardware sales would
- 23 likely not have been sold as well.
- In other words, the whole solution provided by
- 25 Alcatel-Lucent and by Ericsson, the base station

1 solution, had to comply with HSDPA. If it didn't comply

- 2 with HSDPA, then the carriers wouldn't be buying the
- 3 base station.
- 4 So if you consider the royalty base just to be
- 5 software, you have to consider that there are many more
- 6 hardware sales that might be tied in.
- 7 I had an example I used the other day at
- 8 lunch. I wanted to get a sandwich. I'm a big
- 9 sandwich-eater. I'm from the Midwest; we eat sandwiches
- 10 a lot. And I went to Cheddar's and I wanted a sandwich.
- 11 They had good options, and I ordered one of those
- 12 options.
- 13 But if I went to Cheddar's -- Cheddar's and
- 14 they didn't have sandwiches, or even more specifically,
- 15 didn't have bread, which is a strange hypothetical, then
- 16 I wouldn't have bought a sandwich there. I would have
- 17 moved on to get a sandwich elsewhere.
- 18 The bread was important. There were other
- 19 things on my sandwich. I had chicken, I had mayo, I had
- 20 lettuce, tomatoes. Those things were all important.
- 21 But if I didn't have the bread, because I
- 22 wanted a sandwich, I would have moved on to another
- 23 option because I wanted a sandwich.
- 24 So that's the way to think about convoyed
- 25 sales.

- 1 Q. And so how does this affect your analysis?
- 2 A. If -- for the base station side, if we're just
- 3 thinking about the software revenues and profits -- one
- 4 has to think about those -- do absolutely enhance the
- 5 sale of base station hardware.
- Q. So the next factor, I think, is Factor 7, the
- 7 duration of the patent and the license.
- 8 A. Yes. The --
- 9 Q. Did you examine this with respect to the
- 10 market approach?
- 11 A. I did. The duration of the license would be
- 12 about similar to the licenses that I looked at in the
- 13 market approach. The duration of the patent was and the
- 14 significance of the patent was worth evaluating in
- 15 looking at the income data we have talked about.
- 16 Q. And what did you find?
- 17 A. What I found was that the -- these HSDPA and
- 18 these patents appear to be very well-accepted in the
- 19 marketplace. Their popularity is growing, and that will
- 20 continue to grow in the future.
- 21 MS. ROSS: Let's pull up Jarosz 46,
- 22 please, which is PX 219, which I believe was previously
- 23 admitted.
- Q. (By Ms. Ross) What does this document show?
- 25 A. This is from Ericsson, and it shows that

- 1 handset HSPA will continue to be the most dominant
- 2 technology, even in 2016. You see that in this slide,
- 3 it comprises about 75 percent of the technology three
- 4 years from now.
- 5 So Ericsson has very optimistic views on HSPA,
- 6 which embodies HSDPA.
- 7 MS. ROSS: Let's pull up 47, which is
- 8 PX 220, which was previously admitted yesterday as well.
- 9 Q. (By Ms. Ross) What does this show?
- 10 A. This is a contract between Ericsson and AT&T
- 11 in which AT&T, the supplier, wants to continue to
- 12 receive HSPA-compliant technologies from Ericsson
- 13 through the end of 2018.
- MS. ROSS: Next slide, please.
- Q. (By Ms. Ross) And what does this show?
- 16 A. And it goes on to say: If AT&T chooses -- I'm
- 17 sorry -- the supplier was Ericsson. I misspoke before.
- 18 AT&T was the buyer.
- 19 Ericsson will make available to AT&T
- 20 HSPA-compliant products beyond 2018, if AT&T requires
- 21 it.
- Q. I believe the next factors that you are going
- 23 to discuss are Factors 9 and 10, the utility and nature
- 24 of the patented technology.
- Did you consider Dr. Wells' testimony that the

1 patented technology and HSDPA provides benefits to

- 2 network operators?
- 3 A. Yes.
- 4 Q. And you heard testimony that it provided
- 5 benefits to network operators?
- 6 A. Yes, I did.
- 7 Q. And that was Defendants' testimony?
- 8 A. Correct.
- 9 Q. What effect does this information have on the
- 10 outcome of the hypothetical negotiation?
- 11 A. Well, it's already embedded in the market
- 12 approach, the rates that we see there. But the income
- 13 approach, the data says: This is really important
- 14 technology. The faster transmission, more efficient
- 15 transmission says consider that that has lots of
- 16 advantages with regard to the income data that we talked
- 17 about.
- 18 Q. What evidence did you consider when evaluating
- 19 Factor 11, the extent of use by the infringer?
- 20 A. I considered how much or how important these
- 21 product lines were to the infringers by looking at the
- 22 sales versus the rest of sales of the company. And it
- 23 differed by Defendant, anywhere from 5 to 60 percent.
- 24 So these were relatively important.
- 25 But as relates to the market approach, this

- 1 had a downward impact, because in the market approach,
- 2 there were more technologies that were licensed to those
- 3 licensees. Here, it's just a subset of the technologies
- 4 used and the subset of each of the Defendants' revenue
- 5 bases.
- 6 Q. And what effect did this -- oh, I think you
- 7 said that. Excuse me.
- 8 The next relevant factor is Factor 13, that
- 9 portion of the profit that should be credited to the
- 10 invention as opposed to other elements.
- 11 Can you explain this for me, please?
- 12 A. Yes. For both handsets and base stations,
- 13 there are lots of things that contribute value. There
- 14 are lots of reasons why these products are successful in
- 15 the marketplace.
- 16 So in looking at the income data, one would
- 17 want to go to the lower end, because HSPA and HSDPA,
- 18 although important, aren't the only value drivers. That
- 19 information is already accounted for in the market
- 20 approach, because we have the smaller rates accounting
- 21 for other value drivers.
- 22 But one has to consider, in assessing those
- 23 larger income numbers, that this is just a part of
- 24 what -- what generates value for handsets and for base
- 25 stations.

- 1 Q. What effect does your evaluation of Factor 13
- 2 have on the outcome of the hypothetical negotiation?
- 3 A. Again, I don't think it impacts the market
- 4 approach directly, but the income approach suggests that
- 5 the number should be to the low end under consideration.
- 6 Q. The last factor is Factor 15. What is that?
- 7 A. That's, in essence, the hypothetical
- 8 negotiation, the hypothetical license. It says, pull
- 9 all these things together and what do you come up with?
- 10 Basically -- well, there were factors -- some
- 11 that suggest a number toward the high end; some suggest
- 12 a number toward the low end range under consideration.
- 13 The market approach numbers that you see are
- 14 pretty good estimates. The income approach number is
- 15 the larger numbers that I show have to come down. They
- 16 cannot be that high, because of a variety of reasons
- 17 that we just talked about.
- 18 MS. ROSS: Let's pull up Slide 3, please.
- 19 Q. (By Ms. Ross) Now, Mr. Jarosz, what is your
- 20 overall conclusion regarding the -- your evaluation of
- 21 the market approach and the other inputs from the
- 22 qualitative factors before we get to the geographic
- 23 adjustment?
- 24 A. The numbers are, as reflected on the screen,
- 25 so I have adjusted for size, and I've adjusted for the

- 1 portfolio, and I've adjusted for time. Everything is in
- 2 there, except I have not adjusted for the importance of
- 3 the U.S. assets of Wi-LAN versus its non-U.S. assets.
- 4 O. Could you --
- 5 A. The result is the numbers here. For
- 6 Alcatel-Lucent of \$3.8 million; for Ericsson of \$6
- 7 million; for HTC of \$3.4 million; and for Sony Mobile of
- 8 \$.5 million.
- 9 Q. And I apologize. I almost interrupted you.
- Now, to clarify, these numbers are not
- adjusted for geography, right?
- 12 A. That's correct.
- Q. And why is that, sir?
- 14 A. I don't know exactly how to do that. It was
- an issue Mr. Parolin talked about in his testimony, but
- what happened was, when Wi-LAN licenses a variety of
- 17 companies, they license the worldwide portfolio of
- 18 assets. And what we have here is just a U.S. portfolio.
- So we have to somehow gauge the significance
- 20 of what a license was back then, U.S. versus worldwide.
- If the jury comes to the conclusion that all
- or virtually all of the value is associated with the
- 23 U.S. portfolio, then there wouldn't be an adjustment.
- If they suggest -- if the jury comes to the
- 25 conclusion that half the value is in the U.S. portfolio,

- 1 then you would multiply each of these numbers by 50
- 2 percent. You would take half those numbers.
- 3 MS. ROSS: I'm finished. I will pass the
- 4 witness.
- 5 Thank you, Mr. Jarosz.
- 6 THE WITNESS: Thank you.
- 7 THE COURT: All right.
- 8 Cross-examination.
- 9 CROSS-EXAMINATION
- 10 BY MS. HEFFERNAN:
- 11 Q. Good morning, Mr. Jarosz.
- 12 A. Good morning, Ms. Heffernan.
- Q. Nice to see you again.
- 14 A. Nice to see you again.
- 15 Q. Sir, I think I'd like to start with some
- 16 topics that I think we can all agree on.
- 17 Now, you're not offering an opinion today on
- 18 infringement of the patents-in-suit, correct?
- 19 A. That's correct. I'm a damages expert.
- 20 Q. And you mentioned Dr. Wells in your direct
- 21 exam. You're aware that there are other technical
- 22 experts who are going to testify in this case for the
- 23 Defendants, right?
- 24 A. Yes. I'm aware of that.
- 25 Q. And those experts that we have not yet heard