

ROYAL BANK OF CANADA  
Form 424B3  
January 11, 2019

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PRICING SUPPLEMENT

Filed Pursuant to Rule 424(b)(3)

Registration Statement No. 333-227001

Amendment No. 1 dated January 11, 2019 to Pricing Supplement Dated September 26, 2018

Royal Bank of Canada Trigger Autocallable Contingent Yield Notes

\$11,983,500 Notes Linked to the Common Stock of Amazon.com, Inc. due on September 30, 2021

\$10,480,500 Notes Linked to the Common Stock of Intel Corporation due on September 30, 2021

\$1,801,500 Notes Linked to the Common Stock of Southwest Airlines Company due on September 30, 2021

\$1,322,000 Notes Linked to the Common Stock of Red Hat, Inc. due on September 30, 2021

Investment Description

Trigger Autocallable Contingent Yield Notes (the “Notes”) are unsecured and unsubordinated debt securities issued by Royal Bank of Canada linked to the performance of the common stock of a specific company (each, an “Underlying”). We will pay a quarterly Contingent Coupon payment if the closing price of the Underlying on the applicable Coupon Observation Date is equal to or greater than the Coupon Barrier. Otherwise, no coupon will be paid for that quarter. We will automatically call the Notes early if the closing price of the Underlying on any Call Observation Date on or after March 26, 2019 is equal to or greater than the Initial Price. If the Notes are called, we will pay you the principal amount of your Notes plus the Contingent Coupon for that quarter and no further amounts will be owed to you under the Notes. If the Notes are not called prior to maturity and the Final Price of the Underlying is equal to or greater than the Downside Threshold (which is the same price as the Coupon Barrier), we will pay you a cash payment at maturity equal to the principal amount of your Notes plus the Contingent Coupon for the final quarter. If the Final Price of the Underlying is less than the Downside Threshold, we will pay you less than the full principal amount, if anything, resulting in a loss on your initial investment that is proportionate to the negative performance of the Underlying over the term of the Notes, and you may lose up to 100% of your initial investment. The Notes are not subject to conversion into our common shares under subsection 39.2(2.3) of the Canada Deposit Insurance Corporation Act. Investing in the Notes involves significant risks. You may lose some or all of your principal amount. The contingent repayment of principal only applies if you hold the Notes until maturity. Generally, the higher the Contingent Coupon Rate on the Notes, the greater the risk of loss on the Notes. Any payment on the Notes, including any repayment of principal, is subject to our creditworthiness. If we were to default on our payment obligations, you may not receive any amounts owed to you under the Notes and you could lose your entire investment. The Notes will not be listed on any securities exchange.

Features Key Dates

Contingent Coupon — We will pay a quarterly Contingent Coupon payment if the closing price of the Underlying on the applicable Coupon Observation Date is equal to or greater than the Coupon Barrier. Otherwise, no coupon will be paid for the quarter.

Automatically Callable — We will automatically call the Notes and pay you the principal amount of your Notes plus the Contingent Coupon otherwise due for that quarter if the closing price of the Underlying on any quarterly Call Observation Date on or after March 26, 2019 is greater than or equal to the Initial Price. If the Notes are not called, investors will have the potential for downside equity market risk at maturity.

Contingent Repayment of Principal at Maturity — If by maturity the Notes have not been called and the price of the Underlying does not close below the Downside Threshold on the Final Valuation Date, we will repay your principal amount per Note at maturity. If the price of the Underlying closes below the Downside Threshold on the Final Valuation Date, we will pay less than the principal amount, if anything, resulting in a loss on your initial investment that is proportionate to the decline in the price of the Underlying from the Trade Date to the Final Valuation Date.

The contingent repayment of principal only applies if you hold the Notes until maturity. Any payment on the Notes, including any repayment of principal, is subject to our creditworthiness.

Trade Date September 26, 2018

Settlement Date	September 28, 2018
Coupon Observation Dates <sup>1</sup>	Quarterly (see page 6)
Call Observation Dates <sup>1</sup>	Quarterly, callable after 6 months (see page 6)
Final Valuation Date <sup>1</sup>	September 27, 2021
Maturity Date <sup>1</sup>	September 30, 2021

<sup>1</sup> Subject to postponement if a market disruption event occurs and as described under “General Terms of the Securities — Payment at Maturity” in the accompanying product prospectus supplement no. UBS-TACYN-1.

**NOTICE TO INVESTORS: THE NOTES ARE SIGNIFICANTLY RISKIER THAN CONVENTIONAL DEBT INSTRUMENTS. WE ARE NOT NECESSARILY OBLIGATED TO REPAY THE FULL PRINCIPAL AMOUNT OF THE NOTES AT MATURITY, AND THE NOTES CAN HAVE DOWNSIDE MARKET RISK SIMILAR TO THE UNDERLYING. THIS MARKET RISK IS IN ADDITION TO THE CREDIT RISK INHERENT IN PURCHASING OUR DEBT OBLIGATION. YOU SHOULD NOT PURCHASE THE NOTES IF YOU DO NOT UNDERSTAND OR ARE NOT COMFORTABLE WITH THE SIGNIFICANT RISKS INVOLVED IN INVESTING IN THE NOTES.**

**YOU SHOULD CAREFULLY CONSIDER THE RISKS DESCRIBED UNDER “KEY RISKS” BEGINNING ON PAGE 7 OF THIS PRICING SUPPLEMENT, UNDER “RISK FACTORS” BEGINNING ON PAGE PS-5 OF THE PRODUCT PROSPECTUS SUPPLEMENT NO. UBS-TACYN-1 AND UNDER “RISK FACTORS” BEGINNING ON PAGE S-1 OF THE PROSPECTUS SUPPLEMENT BEFORE PURCHASING ANY NOTES. EVENTS RELATING TO ANY OF THOSE RISKS, OR OTHER RISKS AND UNCERTAINTIES, COULD ADVERSELY AFFECT THE MARKET VALUE OF, AND THE RETURN ON, YOUR NOTES. YOU MAY LOSE SOME OR ALL OF YOUR INITIAL INVESTMENT IN THE NOTES.**

#### Notes Offerings

This pricing supplement relates to four separate Trigger Autocallable Contingent Yield Notes we are offering. Each of the Notes is linked to the common stock of a different company, and each of the Notes has a different Contingent Coupon Rate, as specified in the table below. Each of the Notes will be issued in minimum denominations of \$10.00, and integral multiples of \$10.00 in excess thereof, with a minimum investment of \$1,000.00. The performance of each Note will not depend on the performance of any other Note.

Underlying	Contingent Coupon Rate	Initial Price	Downside Threshold*	Coupon Barrier*	CUSIP	ISIN
Common Stock of Amazon.com, Inc. (AMZN)	8.00% per annum	\$1,974.85	\$1,220.46, which is 61.80% of the Initial Price	\$1,220.46, which is 61.80% of the Initial Price	78014G542	US78014G5421
Common Stock of Intel Corporation (INTC)	8.00% per annum	\$45.70	\$30.96, which is 67.75% of the Initial Price	\$30.96, which is 67.75% of the Initial Price	78014G559	US78014G5595
Common Stock of Southwest Airlines Company (LUV)	8.00% per annum	\$62.09	\$44.92, which is 72.35% of the Initial Price	\$44.92, which is 72.35% of the Initial Price	78014G567	US78014G5678
Common Stock of Red Hat, Inc. (RHT)	9.00% per annum	\$135.72	\$99.41, which is 73.25% of the Initial Price	\$99.41, which is 73.25% of the Initial Price	78014G575	US78014G5751

\* Rounded to two decimal places

See “Additional Information About Royal Bank of Canada and the Notes” in this pricing supplement. The Notes will have the terms specified in the prospectus dated September 7, 2018, the prospectus supplement dated September 7, 2018, product prospectus supplement no. UBS-TACYN-1 dated October 3, 2018 and this pricing supplement. Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of the Notes or passed upon the accuracy or the adequacy of this pricing supplement or the accompanying prospectus, prospectus supplement and product prospectus supplement no. UBS-TACYN-1. Any representation to the contrary is a criminal offense.

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Offering of the Notes	Price to Public		Fees and Commissions <sup>(1)</sup>		Proceeds to Us	
	Total	Per Note	Total	Per Note	Total	Per Note
Notes Linked to the Common Stock of Amazon.com, Inc. (AMZN)	\$11,983,500	\$10.00	\$239,670	\$0.20	\$11,743,830	\$9.80
Notes Linked to the Common Stock of Intel Corporation (INTC)	\$10,480,500	\$10.00	\$209,610	\$0.20	\$10,270,890	\$9.80
Notes Linked to the Common Stock of Southwest Airlines Company (LUV)	\$1,801,500	\$10.00	\$36,030	\$0.20	\$1,765,470	\$9.80
Notes Linked to the Common Stock of Red Hat, Inc. (RHT)	\$1,322,000	\$10.00	\$26,440	\$0.20	\$1,295,560	\$9.80

<sup>(1)</sup> UBS Financial Services Inc., which we refer to as UBS, will receive a commission of \$0.20 per \$10.00 principal amount of each of the Notes. See “Supplemental Plan of Distribution (Conflicts of Interest)” below.

The initial estimated value of the Notes as of the date of this document is \$9.7748 per \$10 in principal amount for the Notes linked to AMZN, \$9.7813 per \$10 in principal amount for the Notes linked to INTC, \$9.7700 per \$10 in principal amount for the Notes linked to LUV, and \$9.7744 per \$10 in principal amount for the Notes linked to RHT, each of which is less than the price to public. The actual value of the Notes at any time will reflect many factors, cannot be predicted with accuracy, and may be less than this amount. We describe our determination of the initial estimated value under “Key Risks,” “Supplemental Plan of Distribution (Conflicts of Interest)” and “Structuring the Notes” below.

The Notes will not constitute deposits insured under the Canada Deposit Insurance Corporation Act or by the United States Federal Deposit Insurance Corporation or any other Canadian or United States government agency or instrumentality.

UBS Financial Services Inc. RBC Capital Markets, LLC

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Additional Information About Royal Bank of Canada and the Notes

You should read this pricing supplement together with the prospectus dated September 7, 2018, as supplemented by the prospectus supplement dated September 7, 2018, relating to our Series H medium-term notes of which these Notes are a part, and the more detailed information contained in product prospectus supplement no. UBS-TACYN-1 dated October 3, 2018. This pricing supplement, together with the documents listed below, contains the terms of the Notes and supersedes all other prior or contemporaneous oral statements as well as any other written materials including preliminary or indicative pricing terms, correspondence, trade ideas, structures for implementation, sample structures, fact sheets, brochures or other educational materials of ours. You should carefully consider, among other things, the matters set forth in “Risk Factors” in the accompanying product prospectus supplement no. UBS-TACYN-1, as the Notes involve risks not associated with conventional debt securities.

If the terms discussed in this pricing supplement differ from those discussed in the product prospectus supplement no. UBS-TACYN-1, the prospectus supplement, or the prospectus, the terms discussed herein will control.

You may access these on the SEC website at [www.sec.gov](http://www.sec.gov) as follows (or if such address has changed, by reviewing our filing for the relevant date on the SEC website):

“Product prospectus supplement no. UBS-TACYN-1 dated October 3, 2018:

<https://www.sec.gov/Archives/edgar/data/1000275/000114036118040006/form424b5.htm>

“Prospectus supplement dated September 7, 2018:

<https://www.sec.gov/Archives/edgar/data/1000275/000121465918005975/f97180424b3.htm>

“Prospectus dated September 7, 2018:

<https://www.sec.gov/Archives/edgar/data/1000275/000121465918005973/l96181424b3.htm>

As used in this pricing supplement, “we,” “us” or “our” refers to Royal Bank of Canada.

### Investor Suitability

The Notes may be suitable for you if, among other considerations:

- .. You fully understand the risks inherent in an investment in the Notes, including the risk of loss of your entire initial investment.
- .. You can tolerate a loss of all or a substantial portion of your investment and are willing to make an investment that may have the same downside market risk as an investment in the applicable Underlying.
- .. You believe the closing price of the applicable Underlying will be equal to or greater than the Coupon Barrier on most or all of the Coupon Observation Dates (including the Final Valuation Date).
- .. You are willing to make an investment whose return is limited to the Contingent Coupon payments, regardless of any potential appreciation of the applicable Underlying, which could be significant.
- .. You can tolerate fluctuations in the price of the Notes prior to maturity that may be similar to or exceed the downside price fluctuations of the applicable Underlying.
- .. You are willing to invest in Notes for which there may be little or no secondary market and you accept that the secondary market will depend in large part on the price, if any, at which RBC Capital Markets, LLC, which we refer to as "RBCCM," is willing to purchase the Notes.
- .. You are willing to invest in the applicable Notes based on the applicable Downside Threshold and Coupon Barrier set forth on the cover page of this pricing supplement.
- .. You do not seek guaranteed current income from this investment and are willing to forgo dividends paid on the applicable Underlying.
- .. You are willing to invest in securities that may be called early and you are otherwise willing to hold such securities to maturity.
- .. You are willing to assume our credit risk for all payments under the Notes, and understand that if we default on our obligations, you may not receive any amounts due to you, including any repayment of principal.

The Notes may not be suitable for you if, among other considerations:

- .. You do not fully understand the risks inherent in an investment in the Notes, including the risk of loss of your entire initial investment.
- .. You cannot tolerate a loss on your investment and require an investment designed to provide a full return of principal at maturity.
- .. You are not willing to make an investment that may have the same downside market risk as an investment in the applicable Underlying.
- .. You believe that the price of the applicable Underlying will decline during the term of the Notes and is likely to close below the Coupon Barrier on most or all of the Coupon Observation Dates and below the Downside Threshold on the Final Valuation Date.
- .. You seek an investment that participates in the full appreciation in the price of the applicable Underlying or that has unlimited return potential.
- .. You cannot tolerate fluctuations in the price of the Notes prior to maturity that may be similar to or exceed the downside price fluctuations of the applicable Underlying.
- .. You are unwilling to invest in the applicable Notes based on the applicable Downside Threshold and Coupon Barrier set forth on the cover page of this pricing supplement.
- .. You seek guaranteed current income from this investment or prefer to receive the dividends paid on the applicable Underlying.
- .. You are unable or unwilling to hold securities that may be called early, or you are otherwise unable or unwilling to hold such securities to maturity, or you seek an investment for which there will be an active secondary market for the Notes.
- .. You are not willing to assume our credit risk for all payments under the Notes, including any repayment of principal.

The suitability considerations identified above are not exhaustive. Whether or not the Notes are a suitable investment for you will depend on your individual circumstances, and you should reach an investment decision only after you and your investment, legal, tax, accounting, and other advisers have carefully considered the suitability of an investment in the Notes in light of your particular circumstances. You should also review carefully the "Key Risks" below and "Risk

Factors” in the accompanying product prospectus supplement no. UBS-TACYN-1 for risks related to an investment in the Notes. In addition, you should review carefully the section below, “Information About the Underlying,” for more information about the Underlying.

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Final Terms of the Notes<sup>1</sup>

Issuer:	Royal Bank of Canada
Principal Amount per Note:	\$10.00 per Note
Term:	Approximately 3 years, if not previously called
Underlying:	The common stock of a specific company, as set forth on the cover page of this pricing supplement. On any trading day, the last reported sale price of the Underlying on the principal national securities exchange in the U.S. on which it is listed for trading, as determined by the calculation agent.
Closing Price:	The closing price of the Underlying on the Trade Date, as set forth on the cover page of this pricing supplement.
Initial Price:	The closing price of the Underlying on the Trade Date, as set forth on the cover page of this pricing supplement.
Final Price:	The closing price of the Underlying on the Final Valuation Date.
Contingent Coupon:	If the closing price of the Underlying is equal to or greater than the Coupon Barrier on any Coupon Observation Date, we will pay you the Contingent Coupon applicable to that Coupon Observation Date. If the closing price of the Underlying is less than the Coupon Barrier on any Coupon Observation Date, the Contingent Coupon applicable to that Coupon Observation Date will not accrue or be payable and we will not make any payment to you on the relevant Contingent Coupon Payment Date. The Contingent Coupon will be a fixed amount based upon equal quarterly installments at the Contingent Coupon Rate, which is a per annum rate as set forth below. Each Contingent Coupon will be paid to the holders of record of the Notes at the close of business one business day prior to that Coupon Payment Date whether or not such business day is a business day
Contingent Coupon payments on the Notes are not guaranteed. We will not pay you the Contingent Coupon for any Coupon Observation Date on which the closing price of the Underlying is less than the Coupon Barrier.	
Contingent Coupon Rate:	8.00% per annum (2.00% per quarter) for the Notes linked to AMZN. 8.00% per annum (2.00% per quarter) for the Notes linked to INTC. 8.00% per annum (2.00% per quarter) for the Notes linked to LUV. 9.00% per annum (2.25% per quarter) for the Notes linked to RHT.
Coupon Barrier and Downside Threshold:	As set forth on the cover page, and as may be adjusted in the case of certain adjustment events as described under “General Terms of the Securities—Anti-dilution Adjustments” in the product prospectus supplement. The applicable Coupon Barrier for each Note is equal to its Downside Threshold.
Automatic Call Feature:	The Notes will be called automatically if the closing price of the Underlying on any Call Observation Date beginning on March 26, 2019 (set forth on page 6) is greater than or

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<sup>1</sup> Terms used in this pricing supplement, but not defined herein, shall have the meanings ascribed to them in the product prospectus supplement.

equal to the Initial Price.

If the Notes are called, we will pay you on the corresponding coupon payment date (which will be the “Call Settlement Date”) a cash payment per Note equal to the principal amount per Note plus the applicable Contingent Coupon payment otherwise due on that day (the “Call Settlement Amount”). No further amounts will be owed to you under the Notes.

Payment at Maturity: If the Notes are not called and the Final Price is equal to or greater than the Downside Threshold and the Coupon Barrier, we will pay you a cash payment per Note on the maturity date equal to \$10.00 plus the Contingent Coupon otherwise due on the maturity date.

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If the Notes are not called and the Final Price is less than the Downside Threshold, we will pay you a cash payment on the maturity date of less than the principal amount, if anything, resulting in a loss on your initial investment that is proportionate to the negative Underlying Return, equal to:  
 $\$10.00 + (\$10.00 \times \text{Underlying Return})$

Underlying  
Return:

$\frac{\text{Final Price} - \text{Initial Price}}{\text{Initial Price}}$



Investment Timeline

Trade Date: The Initial Price of each Underlying was observed. Each Downside Threshold and Coupon Barrier was determined.

Quarterly (beginning after six months): If the closing price of the applicable Underlying is equal to or greater than the Coupon Barrier on any Coupon Observation Date, we will pay you a Contingent Coupon payment on the applicable coupon payment date. The Notes will be called if the closing price of the applicable Underlying on any Call Observation Date beginning on March 26, 2019 is equal to or greater than the Initial Price. If the Notes are called, we will pay you a cash payment per Note equal to \$10 plus the Contingent Coupon otherwise due on that date.

Maturity Date: The Final Price of the applicable Underlying is observed on the Final Valuation Date. If the Notes have not been called and the applicable Final Price is equal to or greater than the Downside Threshold (and the Coupon Barrier), we will repay the principal amount equal to \$10 per Note plus the Contingent Coupon otherwise due on the maturity date. If the Notes have not been called and the applicable Final Price is less than the Downside Threshold, we will repay less than the principal amount, if anything, resulting in a loss on your initial investment proportionate to the decline of the Underlying, for an amount equal to:  $\$10 + (\$10 \times \text{Underlying Return})$  per Note

INVESTING IN THE NOTES INVOLVES SIGNIFICANT RISKS. YOU MAY LOSE SOME OR ALL OF YOUR PRINCIPAL AMOUNT. ANY PAYMENT ON THE NOTES, INCLUDING ANY REPAYMENT OF PRINCIPAL, IS SUBJECT TO OUR CREDITWORTHINESS. IF WE WERE TO DEFAULT ON OUR PAYMENT OBLIGATIONS, YOU MAY NOT RECEIVE ANY AMOUNTS OWED TO YOU UNDER THE NOTES AND YOU COULD LOSE YOUR ENTIRE INVESTMENT.

Coupon Observation Dates and Coupon Payment Dates\*

Coupon Observation Dates	Coupon Payment Dates
December 26, 2018	December 31, 2018
March 26, 2019 <sup>(1)</sup>	March 28, 2019 <sup>(2)</sup>
June 26, 2019 <sup>(1)</sup>	June 28, 2019 <sup>(2)</sup>
September 26, 2019 <sup>(1)</sup>	September 30, 2019 <sup>(2)</sup>
December 26, 2019 <sup>(1)</sup>	December 30, 2019 <sup>(2)</sup>
March 26, 2020 <sup>(1)</sup>	March 30, 2020 <sup>(2)</sup>
June 26, 2020 <sup>(1)</sup>	June 30, 2020 <sup>(2)</sup>
September 28, 2020 <sup>(1)</sup>	September 30, 2020 <sup>(2)</sup>
December 28, 2020 <sup>(1)</sup>	December 30, 2020 <sup>(2)</sup>
March 26, 2021 <sup>(1)</sup>	March 30, 2021 <sup>(2)</sup>
June 28, 2021 <sup>(1)</sup>	June 30, 2021 <sup>(2)</sup>
September 27, 2021 <sup>(3)</sup>	September 30, 2021 <sup>(4)</sup>

(1) These Coupon Observation Dates are also Call Observation Dates.

(2) These Coupon Payment Dates are also Call Settlement Dates.

(3) This is also the Final Valuation Date.

(4) This is also the maturity date.

\* Expected. Subject to postponement if a market disruption event occurs as described under “General Terms of the Securities—Payment at Maturity” in the accompanying product prospectus supplement no. UBS-TACYN-1.

## Key Risks

An investment in the Notes involves significant risks. Investing in the Notes is not equivalent to investing directly in the applicable Underlying. These risks are explained in more detail in the “Risk Factors” section of the accompanying product prospectus supplement no. UBS-TACYN-1. We also urge you to consult your investment, legal, tax, accounting and other advisors before investing in the Notes.

### Risks Relating to the Notes Generally

**Risk of Loss at Maturity** — The Notes differ from ordinary debt securities in that we will not necessarily repay the full principal amount of the Notes at maturity. If the Notes are not called, we will repay you the principal amount of your Notes in cash only if the Final Price of the applicable Underlying is greater than or equal to the Downside Threshold, and will only make that payment at maturity. If the Notes are not called and the Final Price is less than the Downside Threshold, you will lose some or all of your initial investment in an amount proportionate to the decline in the price of the Underlying.

**The Contingent Repayment of Principal Applies Only at Maturity** — If the Notes are not automatically called, you should be willing to hold your Notes to maturity. If you are able to sell your Notes prior to maturity in the secondary market, if any, you may have to do so at a loss relative to your initial investment, even if the price of the Underlying is above the Downside Threshold.

**You May Not Receive any Contingent Coupons** — We will not necessarily make periodic Contingent Coupon payments on the Notes. If the closing price of the applicable Underlying on a Coupon Observation Date is less than the Coupon Barrier, we will not pay you the Contingent Coupon applicable to that Coupon Observation Date. If the closing price of the Underlying is less than the Coupon Barrier on each of the Coupon Observation Dates, we will not pay you any Contingent Coupons during the term of, and you will not receive a positive return on, your Notes. Generally, this non-payment of the Contingent Coupon coincides with a period of greater risk of principal loss on your Notes. Accordingly, if we do not pay the Contingent Coupon on the maturity date, you will incur a loss of principal, because the Final Price will be less than the Downside Threshold.

**The Call Feature and the Contingent Coupon Feature Limit Your Potential Return** — The return potential of the Notes is limited to the pre-specified Contingent Coupon Rate, regardless of the appreciation of the applicable Underlying. In addition, the total return on the Notes will vary based on the number of Coupon Observation Dates on which the Contingent Coupon becomes payable prior to maturity or an automatic call. Further, if the Notes are called due to the automatic call feature, you will not receive any Contingent Coupons or any other payment in respect of any Coupon Observation Dates after the applicable Call Settlement Date. Since the Notes could be called as early as the Call Observation Date beginning on March 26, 2019, the total return on the Notes could be minimal. If the Notes are not called, you may be subject to the full downside performance of the Underlying even though your potential return is limited to the Contingent Coupon Rate. Generally, the longer the Notes are outstanding, the less likely it is that they will be automatically called due to the decline in the price of the Underlying and the shorter time remaining for the price of the Underlying to recover. As a result, the return on an investment in the Notes could be less than the return on a direct investment in the Underlying or on a similar security that allows you to participate in the appreciation of the price of the Underlying.

**The Contingent Coupon Rate Per Annum Payable on the Notes Will Reflect in Part the Volatility of the Applicable Underlying, and May Not Be Sufficient to Compensate You for the Risk of Loss at Maturity** — “Volatility” refers to the frequency and magnitude of changes in the price of the applicable Underlying. The greater the volatility of the Underlying, the more likely it is that the price of that equity could close below the Downside Threshold on the Final Valuation Date. This risk will generally be reflected in a higher Contingent Coupon Rate for the Notes than the rate payable on our conventional debt securities with a comparable term. However, while the Contingent Coupon Rate was set on the Trade Date, the Underlying’s volatility can change significantly over the term of the Notes, and may increase. The price of the Underlying could fall sharply as of the Final Valuation Date, which could result in a significant loss of your principal.

**The Notes Are Subject to Reinvestment Risk** — The Notes will be called automatically if the closing price of the applicable Underlying is equal to or greater than the Initial Price on any Call Observation Date beginning on March 26, 2019. In the event that the applicable Notes are called prior to maturity, there is no guarantee that you will be able to reinvest the proceeds at a comparable rate of return for a similar level of risk. To the extent you are able to reinvest

your proceeds in an investment comparable to the Notes, you will incur transaction costs and the original issue price for such an investment is likely to include certain built in costs such as dealer discounts and hedging costs.

**The Notes Are Subject to Our Credit Risk** — The Notes are subject to our credit risk, and our credit ratings and credit spreads may adversely affect the market value of the Notes. Investors are dependent on our ability to pay all amounts due on the Notes, and therefore investors are subject to our credit risk and to changes in the market's view of our creditworthiness. Any decline in our credit ratings or increase in the credit spreads charged by the market for taking our credit risk is likely to adversely affect the value of the Notes. If we were to default on our payment obligations, you may not receive any amounts owed to you under the Notes and you could lose your entire investment.

**The Notes Will be Subject to Risks, Including Non-Payment in Full, Under Canadian Bank Resolution Powers:** Under Canadian bank resolution powers, the Canada Deposit Insurance Corporation ("CDIC") may, in circumstances where we have ceased, or are about to cease, to be viable, assume temporary control or ownership over us and may be granted broad powers by one or more orders of the Governor in Council (Canada), including the power to sell or dispose of all or a part of our assets, and the power to carry out or cause us to carry out a transaction or a series of transactions the purpose of which is to restructure our business of the Bank. As See "Description of Debt Securities Canadian Bank Resolution Powers" in the accompanying prospectus for a description of the Canadian bank resolution powers, including the bail-in regime. If the CDIC were to take action under the Canadian bank resolution powers with respect to us, this could result in holders of the Notes being exposed to losses.

**An Investment in the Notes Is Subject to Single Stock Risk** – The price of the applicable Underlying can rise or fall sharply due to factors specific to that Underlying and its issuer, such as stock price volatility, earnings, financial conditions, corporate, industry and regulatory developments, management changes and decisions and other events, as well as general market factors, such as general stock market volatility and levels, interest rates and economic and political conditions. You, as an investor in the Notes, should make your own investigation into the Underlying issuer and the Underlying. For additional information about the Underlying and its issuer, please see "Information about the Underlying" in this pricing supplement and the Underlying issuer's SEC filings referred to in those sections. We urge you to review financial and other information filed periodically by the Underlying issuer with the SEC.

**The Initial Estimated Value of the Notes Is Less than the Price to the Public** — The initial estimated value for the Notes that is set forth on the cover page of this document, which is less than the public offering price you pay for the Notes and does not represent a minimum price at which we, RBCCM or any of our other affiliates would be willing to purchase the Notes in any secondary market (if any exists) at any time. If you attempt to sell the Notes prior to maturity, their market value may be lower than the price you paid for them and the initial estimated value. This is due to, among other things, changes in the price of the Underlying, the borrowing rate we pay to issue securities of this kind, and the inclusion in

the price to public of the underwriting discount, and our estimated profit and the costs relating to our hedging of the Notes. These factors, together with various credit, market and economic factors over the term of the Notes, are expected to reduce the price at which you may be able to sell the Notes in any secondary market and will affect the value of the Notes in complex and unpredictable ways. Assuming no change in market conditions or any other relevant factors, the price, if any, at which you may be able to sell your Notes prior to maturity may be less than the price to public, as any such sale price would not be expected to include the underwriting discount and our estimated profit and the costs relating to our hedging of the Notes. In addition, any price at which you may sell the Notes is likely to reflect customary bid-ask spreads for similar trades. In addition to bid-ask spreads, the value of the Notes determined for any secondary market price is expected to be based on a secondary market rate rather than the internal borrowing rate used to price the Notes and determine the initial estimated value. As a result, the secondary market price will be less than if the internal borrowing rate was used. The Notes are not designed to be short-term trading instruments. Accordingly, you should be able and willing to hold your Notes to maturity.

**Our Initial Estimated Value of the Notes Is an Estimate Only, Calculated as of the Time the Terms of the Notes Were Set** — The initial estimated value of the Notes is based on the value of our obligation to make the payments on the Notes, together with the mid-market value of the derivative embedded in the terms of the Notes. See “Structuring the Notes” below. Our estimate is based on a variety of assumptions, including our credit spreads, expectations as to dividends, interest rates and volatility, and the expected term of the Notes. These assumptions are based on certain forecasts about future events, which may prove to be incorrect. Other entities may value the Notes or similar securities at a price that is significantly different than we do.

The value of the Notes at any time after the Trade Date will vary based on many factors, including changes in market conditions, and cannot be predicted with accuracy. As a result, the actual value you would receive if you sold the Notes in any secondary market, if any, should be expected to differ materially from the initial estimated value of your Notes and the amount that may be paid at maturity.

**Owning the Notes Is Not the Same as Owning the Applicable Underlying** — The return on your Notes may not reflect the return you would realize if you actually owned the applicable Underlying. As a holder of the Notes, you will not have voting rights or rights to receive dividends or other distributions or other rights that holders of the Underlying, and any such dividends will not be incorporated in the determination of the Underlying Return.

**You Will Not Have Any Shareholder Rights and Will Have No Right to Receive Any Shares of the Applicable Underlying at Maturity** — Investing in the Notes will not make you a holder of any shares of the applicable Underlying. Neither you nor any other holder or owner of the Notes will have any voting rights, any right to receive dividends or other distributions, or any other rights with respect to the Underlying or such other securities.

**There Is No Affiliation Between the Underlying Issuer and Us, UBS and Our Respective Affiliates, and We Are Not Responsible for Any Disclosure by that Issuer** — We, UBS and our respective affiliates are not affiliated with any of the Underlying issuers. However, we, UBS and our respective affiliates may currently, or from time to time in the future engage in business with the Underlying issuer. Nevertheless, neither we nor our affiliates assume any responsibilities for the accuracy or the completeness of any information about the Reference Stock and the Underlying issuer. You, as an investor in the Notes, should make your own investigation into the Underlying and the Underlying issuer for your Notes. The Underlying issuer is not involved in this offering and has no obligation of any sort with respect to your Notes. The Underlying issuer has no obligation to take your interests into consideration for any reason, including when taking any corporate actions that might affect the value of your Notes.

**Historical Prices of the Underlyings Should Not Be Taken as an Indication of Their Future Prices During the Term of the Notes** — The trading prices of the applicable Underlying will determine the value of the Notes at any given time. However, it is impossible to predict whether the price of the applicable Underlying will rise or fall, trading prices of the Underlyings will be influenced by complex and interrelated political, economic, financial and other factors that can affect the applicable issuer, and therefore, the price of the applicable Underlying.

**There Can Be No Assurance that the Investment View Implicit in the Notes Will Be Successful** — It is impossible to predict whether and the extent to which the price of the applicable Underlying will rise or fall. The closing price of the Underlying will be influenced by complex and interrelated political, economic, financial and other factors that affect the Underlying. You should be willing to accept the downside risks of owning equities in general and the Underlying in particular, and the risk of losing some or all of your initial investment.

**Lack of Liquidity** — The Notes will not be listed on any securities exchange. RBCCM intends to offer to purchase the Notes in the secondary market, but is not required to do so. Even if there is a secondary market, it may not provide enough liquidity to allow you to trade or sell the Notes easily. Because other dealers are not likely to make a secondary market for the Notes, the price at which you may be able to trade your Notes is likely to depend on the price, if any, at which RBCCM is willing to buy the Notes.

**Potential Conflicts** — We and our affiliates play a variety of roles in connection with the issuance of the Notes, including hedging our obligations under the Notes. In performing these duties, the economic interests of the calculation agent and other affiliates of ours are potentially adverse to your interests as an investor in the Notes.

**Potentially Inconsistent Research, Opinions or Recommendations by RBCCM, UBS or Their Affiliates** — RBCCM, UBS, and our respective affiliates may publish research, express opinions or provide recommendations as to the applicable Underlying that are inconsistent with investing in or holding the Notes, and which may be revised at any time. Any such research, opinions or recommendations could affect the value of the Underlying, and therefore, the market value of the Notes.

**Uncertain Tax Treatment** — Significant aspects of the tax treatment of an investment in the Notes are uncertain. You should consult your tax adviser about your tax situation.

**Potential Royal Bank of Canada and UBS Impact on Price** — Trading or transactions by us, UBS or our respective affiliates in the applicable Underlying, or in futures, options, exchange-traded funds or other derivative products on the Underlying may adversely affect the market value of the Underlying, the closing price of the Underlying, and, therefore, the market value of the Notes.

**Many Economic and Market Factors Will Impact the Value of the Notes** — In addition to the closing price of the Underlying on any trading day, the value of the Notes will be affected by a number of economic and market factors that may either offset or magnify each other, including:

- the actual and expected volatility of the price of the applicable Underlying;
- the time remaining to maturity of the Notes;
- the dividend rate on the Underlying;
- interest and yield rates in the market generally;

“a variety of economic, financial, political, regulatory or judicial events;  
..the occurrence of certain events relating to the Underlying that may or may not require an adjustment to the terms of the Notes; and

“our creditworthiness, including actual or anticipated downgrades in our credit ratings.

Some or all of these factors influenced the terms of the Notes at issuance and will influence the price you will receive if you choose to sell the Notes prior to maturity. The impact of any of the factors set forth above may enhance or offset some or all of any change resulting from another factor or factors. You may have to sell the Notes at a substantial discount from the principal amount if the price of the Underlying is at, below or not sufficiently above, its Downside Threshold.

The Anti-Dilution Protection for the Underlying Is Limited — The calculation agent will make adjustments to the Initial Price, Downside Threshold and Coupon Barrier for certain events affecting the shares of the applicable Underlying. However, the calculation agent will not be required to make an adjustment in response to all events that could affect the Underlying. If an event occurs that does not require the calculation agent to make an adjustment, the value of the Notes and the payments on the Notes may be materially and adversely affected.

## Hypothetical Examples

These terms are only hypothetical. Please see the cover page for the expected terms of the Notes.

The following examples are hypothetical and provided for illustrative purposes only. They do not purport to be representative of every possible scenario concerning increases or decreases in the price of any Underlying relative to its Initial Price. We cannot predict the Final Price of any Underlying. You should not take these examples as an indication or assurance of the expected performance of any Underlying. The numbers appearing in the examples and tables below have been rounded for ease of analysis. The following examples and tables illustrate the Payment at Maturity or upon an automatic call per Note on a hypothetical offering of the Notes, based on the following hypothetical assumptions (actual terms for the Notes are specified on the cover page of this pricing supplement):

Principal Amount:	\$10
Term:	Approximately 3 years
Coupon Observation Dates:	Quarterly
Call Observation Dates:	Quarterly, beginning on March 26, 2019
Hypothetical Initial Price of the Underlying*:	\$50.00
Hypothetical Contingent Coupon Rate*:	7.00% per annum (or 1.75% per quarter)
Hypothetical Contingent Coupon**:	\$0.175 per quarter
Hypothetical Coupon Barrier*:	\$40.00 (which is 80.00% of the hypothetical Initial Price)
Hypothetical Downside Threshold*:	\$40.00 (which is 80.00% of the hypothetical Initial Price)

\* Not the actual Contingent Coupon Rate per annum, Initial Price, Coupon Barrier or Downside Threshold applicable to each of the Notes. The actual Initial Price, Coupon Barrier and Downside Threshold are set forth on the cover page of this pricing supplement.

\*\* Contingent Coupon payments, if payable, will be paid in arrears in equal quarterly installments during the term of the Notes unless earlier called.

Scenario #1: Notes Are Called on the Second Coupon Observation Date (which is the first Call Observation Date).

Date	Closing Price	Payment (per Note)
First Coupon Observation Date	\$55.00 (at or above Initial Price)	\$0.175 (Contingent Coupon – Not Callable)
Second Coupon Observation Date	\$60.00 (at or above Initial Price)	\$10.175 (Call Settlement Amount)
	Total Payment:	\$10.35 (3.50% return)

Even though the closing price is above the Initial Price on the first Coupon Observation Date, the Notes cannot be called on that date. Since the Notes are called on the second Coupon Observation Date, we will pay you on the Call Settlement Date a total of \$10.175 per Note, reflecting your principal amount plus the applicable Contingent Coupon. When added to the Contingent Coupon payment of \$0.175 received in respect of the first Coupon Observation Date, we will have paid you a total of \$10.35 per Note, for a 3.50% total return on the Notes. No further amount will be owed to you under the Notes.

Scenario #2: Notes Are Called on the Third Coupon Observation Date.

Date	Closing Price	Payment (per Note)
First Coupon Observation Date	\$43.00 (at or above Coupon Barrier; below Initial Price)	\$0.175 (Contingent Coupon – Not Callable)
Second Coupon Observation Date	\$48.00 (at or above Coupon Barrier; below Initial Price)	\$0.175 (Contingent Coupon – Not Called)
Third Coupon Observation Date	\$55.00 (at or above Initial Price)	\$10.175 (Call Settlement Amount)
	Total Payment:	\$10.525 (5.25% return)

Since the Notes are called on the third Coupon Observation Date, we will pay you on the Call Settlement Date a total of \$10.175 per Note, reflecting your principal amount plus the applicable Contingent Coupon. When added to the Contingent Coupon payments of \$0.35 received in respect of prior Coupon Observation Dates, we will have paid you a total of \$10.525 per Note, for a 5.25% total return on the Notes. No further amount will be owed to you under the Notes.

Scenario #3: Notes Are NOT Called and the Final Price of the Underlying Is at or Above the Downside Threshold.



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Date	Closing Price	Payment (per Note)
First Coupon Observation Date	\$45.00 (at or above Coupon Barrier; below Initial Price)	\$0.175 (Contingent Coupon – Not Callable)
Second Coupon Observation Date	\$28.00 (below Coupon Barrier)	\$0.00 (Not Called)
Third Coupon Observation Date	\$25.00 (below Coupon Barrier)	\$0.00 (Not Called)
Fourth Coupon Observation Date	\$34.00 (below Coupon Barrier)	\$0.00 (Not Called)
Fifth through Eleventh Coupon Observation Dates	Various prices (each at or above Coupon Barrier; below Initial Price)	\$1.225 (7 Contingent Coupon payments of \$0.175 – Not Called)
Final Valuation Date	\$47.50 (at or above Downside Threshold and Coupon Barrier; below Initial Price)	\$10.175 (Payment at Maturity)
	Total Payment:	\$11.575 (15.75% return)

At maturity, we will pay you a total of \$10.175 per Note, reflecting your principal amount plus the applicable Contingent Coupon. When added to the Contingent Coupon payments of \$1.40 received in respect of prior Coupon Observation Dates, we will have paid you a total of \$11.575 per Note, for a 15.75% total return on the Notes.

Scenario #4: Notes Are NOT Called and the Final Price of the Underlying Is Below the Downside Threshold.

Date	Closing Price	Payment (per Note)
First Coupon Observation Date	\$47.50 (at or above Coupon Barrier; below Initial Price)	\$0.175 (Contingent Coupon – Not Callable)
Second Coupon Observation Date	\$45.00 (at or above Coupon Barrier; below Initial Price)	\$0.175 (Contingent Coupon – Not Called)
Third Coupon Observation Date	\$42.50 (at or above Coupon Barrier; below Initial Price)	\$0.175 (Contingent Coupon – Not Called)
Fourth Coupon Observation Date	\$34.00 (below Coupon Barrier)	\$0.00 (Not Called)
Fifth through Eleventh Coupon Observation Dates	Various prices (each below Coupon Barrier)	\$0.00 (Not Called)
		\$10 + [\$10 × Underlying Return]
		=
Final Valuation Date	\$30.00 (below Downside Threshold and Coupon Barrier)	\$10 + [\$10 × -40.00%] = \$10 - \$4.00 = \$6.00 (Payment at Maturity)
	Total Payment:	\$6.525 (-34.75% return)

Since the Notes are not called and the Final Price of the Underlying is below the Downside Threshold, we will pay you at maturity \$6.00 per Note. When added to the Contingent Coupon payments of \$0.525 received in respect of prior Coupon Observation Dates, we will have paid you \$6.525 per Note, for a loss on the Notes of 34.75%.

The Notes differ from ordinary debt securities in that, among other features, we are not necessarily obligated to repay the full amount of your initial investment. If the Notes are not called on any Call Observation Date, you may lose some or all of your initial investment. Specifically, if the Notes are not called and the Final Price is less than the Downside Threshold, you will lose 1% (or a fraction thereof) of your principal amount for each 1% (or a fraction thereof) that the Underlying Return is less than zero.

Any payment on the Notes, including payments in respect of an automatic call, Contingent Coupon or any repayment of principal provided at maturity, is dependent on our ability to satisfy our obligations when they come due. If we are unable to meet our obligations, you may not receive any amounts due to you under the Notes.

## What Are the Tax Consequences of the Notes?

### U.S. Federal Income Tax Consequences

The following, together with the discussion of U.S. federal income tax in the accompanying product prospectus supplement, prospectus supplement, and prospectus, is a general description of the material U.S. federal income tax consequences relating to an investment in the Notes. The following summary is not complete and is qualified in its entirety by the discussion under the section entitled “Supplemental Discussion of U.S. Federal Income Tax Consequences” in the accompanying product prospectus supplement no. UBS-TACYN-1, the section entitled “Certain Income Tax Consequences” in the accompanying prospectus supplement, and the section entitled “Tax Consequences” in the accompanying prospectus, which you should carefully review prior to investing in the Notes.

In the opinion of our counsel, Morrison & Foerster LLP, it would generally be reasonable to treat the Notes as a callable pre-paid cash-settled contingent income-bearing derivative contract linked to the applicable Underlying for U.S. federal income tax purposes, and the terms of the Notes require a holder and us (in the absence of a change in law or an administrative or judicial ruling to the contrary) to treat the Notes for all tax purposes in accordance with such characterization. Although the U.S. federal income tax treatment of the Contingent Coupons is uncertain, we intend to take the position, and the following discussion assumes, that such Contingent Coupons (including any coupon paid on or with respect to the call or maturity date) constitute taxable ordinary income to a U.S. holder at the time received or accrued in accordance with the holder’s regular method of accounting. If the Notes are treated as described above, subject to the potential application of the “constructive ownership” rules under Section 1260 of the Internal Revenue Code, a U.S. holder should generally recognize capital gain or loss upon the call, sale or maturity of the Notes in an amount equal to the difference between the amount a holder receives at such time (other than amounts properly attributable to any Contingent Coupon, which would be taxed, as described above, as ordinary income) and the holder’s tax basis in the Notes. Capital gain recognized by an individual U.S. holder is generally taxed at preferential rates where the property is held for more than one year and is generally taxed at ordinary income rates where the property is held for one year or less. The deductibility of capital losses is subject to limitations.

Alternative tax treatments are also possible and the Internal Revenue Service might assert that a treatment other than that described above is more appropriate. In addition, the Internal Revenue Service has released a notice that may affect the taxation of holders of the Notes. According to the notice, the Internal Revenue Service and the Treasury Department are actively considering whether the holder of an instrument such as the Notes should be required to accrue ordinary income on a current basis. It is not possible to determine what guidance they will ultimately issue, if any. It is possible, however, that under such guidance, holders of the Notes will ultimately be required to accrue income currently and this could be applied on a retroactive basis. The Internal Revenue Service and the Treasury Department are also considering other relevant issues, including whether additional gain or loss from such instruments should be treated as ordinary or capital and whether the special “constructive ownership rules” of Section 1260 of the Internal Revenue Code might be applied to such instruments. Holders are urged to consult their tax advisors concerning the significance, and the potential impact, of the above considerations.

Individual holders that own “specified foreign financial assets” may be required to include certain information with respect to such assets with their U.S. federal income tax return. You are urged to consult your own tax advisor regarding such requirements with respect to the Notes.

Under Section 871(m) of the Internal Revenue Code, a “dividend equivalent” payment is treated as a dividend from sources within the United States. Such payments generally would be subject to a 30% U.S. withholding tax if paid to a non-U.S. holder. Under U.S. Treasury Department regulations, payments (including deemed payments) with respect to equity-linked instruments (“ELIs”) that are “specified ELIs” may be treated as dividend equivalents if such specified ELIs reference an interest in an “underlying security,” which is generally any interest in an entity taxable as a corporation for U.S. federal income tax purposes if a payment with respect to such interest could give rise to a U.S. source dividend. However, the IRS has issued guidance that states that the U.S. Treasury Department and the IRS intend to amend the effective dates of the U.S. Treasury Department regulations to provide that withholding on dividend equivalent payments will not apply to specified ELIs that are not delta-one instruments and that are issued before January 1, 2021. Based on our determination that the Notes are not delta-one instruments, non-U.S. holders should not be subject to withholding on dividend equivalent payments, if any, under the Notes. However, it is possible that the Notes could be treated as deemed reissued for U.S. federal income tax purposes upon the occurrence of certain events affecting the

applicable Underlying or the Notes, and following such occurrence the Notes could be treated as subject to withholding on dividend equivalent payments. Non-U.S. holders that enter, or have entered, into other transactions in respect of the applicable Underlying or the Notes should consult their tax advisors as to the application of the dividend equivalent withholding tax in the context of the Notes and their other transactions. If any payments are treated as dividend equivalents subject to withholding, we (or the applicable withholding agent) would be entitled to withhold taxes without being required to pay any additional amounts with respect to amounts so withheld.

The accompanying product prospectus supplement notes that FATCA withholding on payments of gross proceeds from a sale or redemption of Securities will only apply to payments made after December 31, 2018. That discussion is modified to reflect regulations proposed by the U.S. Treasury Department in December 2018 indicating an intent to eliminate the requirement under FATCA of withholding on gross proceeds of the disposition of financial instruments. The U.S. Treasury Department has indicated that taxpayers may rely on these proposed regulations pending their finalization. Prospective investors are urged to consult with their own tax advisors regarding the possible implications of FATCA on their investment in the Notes.

The Notes are not intended for purchase by any investor that is not a United States person, as that term is defined for U.S. federal income tax purposes, and the underwriters will not make offers of the Notes to any such investor.

#### Canadian Federal Income Tax Consequences

For a discussion of the material Canadian federal income tax consequences relating to an investment in the Notes, please see the section entitled “Tax Consequences—Canadian Taxation” in the accompanying prospectus, which you should carefully review prior to investing in the Notes.

### Information About the Underlyings

Included on the following pages is a brief description of each Underlying. This information has been obtained from publicly available sources. Set forth below is a table that provides the quarterly high, low and period-end closing prices for each Underlying. We obtained the closing price information set forth below from the Bloomberg Professional® service (“Bloomberg”) without independent verification. You should not take the historical prices of any Underlying as an indication of future performance.

Each Underlying is registered under the Securities Exchange Act of 1934, as amended (the “Exchange Act”). Companies with securities registered under the Exchange Act are required to file financial and other information specified by the SEC periodically. Information filed by the applicable Underlying with the SEC can be reviewed electronically through a web site maintained by the SEC. The address of the SEC’s website is <http://www.sec.gov>. Information filed with the SEC by the issuer of the applicable Underlying under the Exchange Act can be located by reference to its SEC Central Index Key (“CIK”) number provided below. In addition, information filed with the SEC can be inspected and copied at the Public Reference Section of the SEC, 100 F Street, N.E., Room 1580, Washington, D.C. 20549. Copies of this material can also be obtained from the Public Reference Section, at prescribed rates. Information from outside sources is not incorporated by reference in, and should not be considered part of, this pricing supplement or any accompanying prospectus or prospectus supplement. We have not independently verified the accuracy or completeness of the information contained in outside sources.

Amazon.com, Inc.

According to publicly available information, Amazon.com, Inc. is an online retailer that offers a wide range of products. The company products include books, music, videotapes, computers, electronics, home and garden, and numerous other products. Amazon offers personalized shopping services, Web-based credit card payment, and direct shipping to customers.

Information filed by the company with the SEC under the Exchange Act can be located by reference to its SEC CIK number: 0001018724. The company's common stock is listed on the Nasdaq Global Select Market ("Nasdaq") under the ticker symbol "AMZN."

#### Historical Information

The following table sets forth the quarterly high, low and period-end closing prices for this Underlying, based on daily closing prices, as reported by Bloomberg L.P. The historical performance of this Underlying should not be taken as an indication of its future performance during the term of the Notes.

Quarter Begin	Quarter End	Quarterly Closing High	Quarterly Closing Low	Quarterly Period-End Close
1/1/2008	3/31/2008	\$96.25	\$62.43	\$71.30
4/1/2008	6/30/2008	\$84.51	\$71.99	\$73.33
7/1/2008	9/30/2008	\$88.09	\$63.35	\$72.76
10/1/2008	12/31/2008	\$69.58	\$35.03	\$51.28
1/1/2009	3/31/2009	\$75.58	\$48.44	\$73.44
4/1/2009	6/30/2009	\$87.56	\$73.50	\$83.66
7/1/2009	9/30/2009	\$93.85	\$75.63	\$93.36
10/1/2009	12/31/2009	\$142.25	\$88.67	\$134.52
1/1/2010	3/31/2010	\$136.55	\$116.00	\$135.73
4/1/2010	6/30/2010	\$150.09	\$108.61	\$109.26
7/1/2010	9/30/2010	\$160.73	\$109.14	\$157.06
10/1/2010	12/31/2010	\$184.76	\$153.03	\$180.00
1/1/2011	3/31/2011	\$191.25	\$160.97	\$180.13
4/1/2011	6/30/2011	\$206.07	\$178.34	\$204.49
7/1/2011	9/30/2011	\$241.69	\$177.79	\$216.23
10/1/2011	12/31/2011	\$246.71	\$173.10	\$173.10
1/1/2012	3/31/2012	\$205.44	\$175.93	\$202.51
4/1/2012	6/30/2012	\$231.90	\$185.50	\$228.35
7/1/2012	9/30/2012	\$261.68	\$215.36	\$254.32
10/1/2012	12/31/2012	\$261.50	\$220.64	\$251.14
1/1/2013	3/31/2013	\$283.99	\$253.39	\$266.49
4/1/2013	6/30/2013	\$281.76	\$248.23	\$277.69
7/1/2013	9/30/2013	\$318.12	\$280.93	\$312.64
10/1/2013	12/31/2013	\$404.39	\$298.23	\$398.79
1/1/2014	3/31/2014	\$407.05	\$336.52	\$336.52
4/1/2014	6/30/2014	\$342.99	\$288.32	\$324.78
7/1/2014	9/30/2014	\$360.84	\$307.06	\$322.44
10/1/2014	12/31/2014	\$338.64	\$287.06	\$310.35
1/1/2015	3/31/2015	\$387.83	\$286.95	\$372.10
4/1/2015	6/30/2015	\$445.99	\$370.26	\$434.09
7/1/2015	9/30/2015	\$548.39	\$429.70	\$511.89
10/1/2015	12/31/2015	\$693.97	\$520.72	\$675.89
1/1/2016	3/31/2016	\$636.99	\$482.07	\$593.64
4/1/2016	6/30/2016	\$728.24	\$586.14	\$715.62
7/1/2016	9/30/2016	\$837.31	\$725.68	\$837.31
10/1/2016	12/31/2016	\$844.36	\$719.07	\$749.87
1/1/2017	3/31/2017	\$886.54	\$753.67	\$886.54

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4/1/2017	6/30/2017	\$1,011.34	\$884.67	\$968.00
7/1/2017	9/30/2017	\$1,052.80	\$938.60	\$961.35
10/1/2017	12/31/2017	\$1,195.83	\$957.10	\$1,169.47
1/1/2018	3/31/2018	\$1,598.39	\$1,189.01	\$1,447.34
4/1/2018	6/30/2018	\$1,750.08	\$1,371.99	\$1,699.80
7/1/2018	9/26/2018*	\$2,039.51	\$1,693.96	\$1,974.85

\* This document includes information for the third calendar quarter of 2018 for the period from July 1, 2018 through September 26, 2018. Accordingly, the “Quarterly Closing High,” “Quarterly Closing Low” and “Quarterly Period-End Close” data indicated are for this shortened period only and do not reflect complete data for the third calendar quarter of 2018.

The graph below illustrates the performance of this Underlying from September 26, 2008 to September 26, 2018 based on the Initial Price of \$1,974.85, which was its closing price on September 26, 2018. The solid line represents the Coupon Barrier and Downside Threshold of \$1,220.46, which is equal to 61.80% of the Initial Price (rounded to two decimal places).

n Hypothetical Coupon Barrier / Downside Threshold = 61.80%

**HISTORIC PERFORMANCE IS NOT AN INDICATION OF FUTURE PERFORMANCE.**

Source: Bloomberg L.P. We have not independently verified the accuracy or completeness of the information obtained from Bloomberg Financial Markets.



## Intel Corporation

According to publicly available information, Intel Corporation designs, manufactures, and sells computer components and related products. The company's major products include microprocessors, chipsets, embedded processors and microcontrollers, flash memory, graphic, network and communication, systems management software, conferencing, and digital imaging products.

Information filed by the company with the SEC under the Exchange Act can be located by reference to its SEC CIK number: 0000050863. The company's common stock is listed on the Nasdaq under the ticker symbol "INTC."

Quarter Begin	Quarter End	Quarterly Closing High	Quarterly Closing Low	Quarterly Period-End Close
1/1/2008	3/31/2008	\$25.35	\$18.61	\$21.18
4/1/2008	6/30/2008	\$25.00	\$20.69	\$21.48
7/1/2008	9/30/2008	\$24.52	\$17.27	\$18.73
10/1/2008	12/31/2008	\$18.52	\$12.23	\$14.66
1/1/2009	3/31/2009	\$15.82	\$12.08	\$15.05
4/1/2009	6/30/2009	\$16.64	\$15.00	\$16.55
7/1/2009	9/30/2009	\$20.32	\$15.94	\$19.57
10/1/2009	12/31/2009	\$20.83	\$18.50	\$20.40
1/1/2010	3/31/2010	\$22.68	\$19.01	\$22.26
4/1/2010	6/30/2010	\$24.21	\$19.45	\$19.45
7/1/2010	9/30/2010	\$21.78	\$17.72	\$19.23
10/1/2010	12/31/2010	\$21.91	\$18.87	\$21.03
1/1/2011	3/31/2011	\$22.14	\$19.82	\$20.17
4/1/2011	6/30/2011	\$23.87	\$19.49	\$22.16
7/1/2011	9/30/2011	\$23.23	\$19.20	\$21.33
10/1/2011	12/31/2011	\$25.66	\$20.62	\$24.25
1/1/2012	3/31/2012	\$28.19	\$24.54	\$28.11
4/1/2012	6/30/2012	\$29.18	\$25.04	\$26.65
7/1/2012	9/30/2012	\$26.88	\$22.51	\$22.68
10/1/2012	12/31/2012	\$22.84	\$19.36	\$20.63
1/1/2013	3/31/2013	\$22.68	\$20.23	\$21.85
4/1/2013	6/30/2013	\$25.47	\$20.94	\$24.22
7/1/2013	9/30/2013	\$24.24	\$21.90	\$22.92
10/1/2013	12/31/2013	\$25.96	\$22.48	\$25.96
1/1/2014	3/31/2014	\$26.67	\$23.52	\$25.81
4/1/2014	6/30/2014	\$30.93	\$25.82	\$30.90
7/1/2014	9/30/2014	\$35.33	\$30.79	\$34.82
10/1/2014	12/31/2014	\$37.67	\$30.85	\$36.29
1/1/2015	3/31/2015	\$36.91	\$29.89	\$31.27
4/1/2015	6/30/2015	\$34.46	\$30.39	\$30.42
7/1/2015	9/30/2015	\$30.56	\$25.87	\$30.14
10/1/2015	12/31/2015	\$35.44	\$30.00	\$34.45
1/1/2016	3/31/2016	\$33.99	\$28.22	\$32.35
4/1/2016	6/30/2016	\$32.99	\$29.63	\$32.80
7/1/2016	9/30/2016	\$37.75	\$32.68	\$37.75
10/1/2016	12/31/2016	\$38.10	\$33.61	\$36.27
1/1/2017	3/31/2017	\$37.98	\$35.04	\$36.07
4/1/2017	6/30/2017	\$37.43	\$33.54	\$33.74
7/1/2017	9/30/2017	\$38.08	\$33.46	\$38.08
10/1/2017	12/31/2017	\$47.56	\$39.04	\$46.16
1/1/2018	3/31/2018	\$52.48	\$42.50	\$52.08
4/1/2018	6/30/2018	\$57.08	\$48.76	\$49.71

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7/1/2018	9/26/2018*	\$52.43	\$44.93	\$45.70
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\* This document includes information for the third calendar quarter of 2018 for the period from July 1, 2018 through September 26, 2018. Accordingly, the “Quarterly Closing High,” “Quarterly Closing Low” and “Quarterly Period-End Close” data indicated are for this shortened period only and do not reflect complete data for the third calendar quarter of 2018.

The graph below illustrates the performance of this Underlying from September 26, 2008 to September 26, 2018 based on the Initial Price of \$45.70, which was its closing price on September 26, 2018. The solid line represents the Coupon Barrier and Downside Threshold of \$30.96, which is equal to 67.75% of the Initial Price (rounded to two decimal places).

n Hypothetical Coupon Barrier / Downside Threshold = 67.75%

**HISTORIC PERFORMANCE IS NOT AN INDICATION OF FUTURE PERFORMANCE.**

Source: Bloomberg L.P. We have not independently verified the accuracy or completeness of the information obtained from Bloomberg Financial Markets.

## Southwest Airlines Company

According to publicly available information, Southwest Airlines Co. is a domestic airline that provides primarily short-haul, high-frequency, and point-to-point services. The company offers flights throughout the United States. Information filed by the company with the SEC under the Exchange Act can be located by reference to its SEC CIK number: 0000092380. The company's common stock is listed on the New York Stock Exchange ("NYSE") under the ticker symbol "LUV."

## Historical Information

The following table sets forth the quarterly high, low and period-end closing prices for this Underlying, based on daily closing prices, as reported by Bloomberg L.P. The historical performance of this Underlying should not be taken as an indication of its future performance during the term of the Notes.

Quarter Begin	Quarter End	Quarterly Closing High	Quarterly Closing Low	Quarterly Period-End Close
1/1/2008	3/31/2008	\$13.08	\$11.27	\$12.40
4/1/2008	6/30/2008	\$14.80	\$11.78	\$13.04
7/1/2008	9/30/2008	\$16.47	\$12.85	\$14.51
10/1/2008	12/31/2008	\$14.20	\$7.28	\$8.62
1/1/2009	3/31/2009	\$9.81	\$5.01	\$6.33
4/1/2009	6/30/2009	\$7.64	\$6.25	\$6.73
7/1/2009	9/30/2009	\$9.88	\$6.48	\$9.60
10/1/2009	12/31/2009	\$11.61	\$8.20	\$11.43
1/1/2010	3/31/2010	\$13.22	\$11.03	\$13.22
4/1/2010	6/30/2010	\$13.96	\$11.11	\$11.11
7/1/2010	9/30/2010	\$13.35	\$10.63	\$13.07
10/1/2010	12/31/2010	\$14.26	\$12.60	\$12.98
1/1/2011	3/31/2011	\$13.32	\$11.57	\$12.63
4/1/2011	6/30/2011	\$12.67	\$10.77	\$11.42
7/1/2011	9/30/2011	\$11.64	\$7.85	\$8.04
10/1/2011	12/31/2011	\$9.10	\$7.35	\$8.56
1/1/2012	3/31/2012	\$10.04	\$8.18	\$8.24
4/1/2012	6/30/2012	\$9.31	\$7.88	\$9.22
7/1/2012	9/30/2012	\$9.63	\$8.47	\$8.77
10/1/2012	12/31/2012	\$10.56	\$8.71	\$10.24
1/1/2013	3/31/2013	\$13.48	\$10.47	\$13.48
4/1/2013	6/30/2013	\$14.38	\$12.54	\$12.89
7/1/2013	9/30/2013	\$14.70	\$12.71	\$14.56
10/1/2013	12/31/2013	\$18.95	\$14.67	\$18.84
1/1/2014	3/31/2014	\$23.98	\$18.88	\$23.61
4/1/2014	6/30/2014	\$27.59	\$22.51	\$26.86
7/1/2014	9/30/2014	\$35.23	\$26.70	\$33.77
10/1/2014	12/31/2014	\$42.32	\$28.88	\$42.32
1/1/2015	3/31/2015	\$46.99	\$38.90	\$44.30
4/1/2015	6/30/2015	\$43.49	\$33.09	\$33.09
7/1/2015	9/30/2015	\$40.45	\$32.36	\$38.04
10/1/2015	12/31/2015	\$49.58	\$38.00	\$43.06
1/1/2016	3/31/2016	\$44.99	\$34.72	\$44.80
4/1/2016	6/30/2016	\$47.73	\$36.76	\$39.21
7/1/2016	9/30/2016	\$43.18	\$35.54	\$38.89
10/1/2016	12/31/2016	\$50.89	\$38.40	\$49.84
1/1/2017	3/31/2017	\$58.88	\$49.46	\$53.76
4/1/2017	6/30/2017	\$62.14	\$53.07	\$62.14
7/1/2017	9/30/2017	\$64.24	\$50.71	\$55.98

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10/1/2017	12/31/2017	\$66.09	\$53.25	\$65.45
1/1/2018	3/31/2018	\$66.29	\$55.50	\$57.28
4/1/2018	6/30/2018	\$56.86	\$50.32	\$50.88
7/1/2018	9/26/2018*	\$63.77	\$51.52	\$62.09

\* This document includes information for the third calendar quarter of 2018 for the period from July 1, 2018 through September 26, 2018. Accordingly, the “Quarterly Closing High,” “Quarterly Closing Low” and “Quarterly Period-End Close” data indicated are for this shortened period only and do not reflect complete data for the third calendar quarter of 2018.

The graph below illustrates the performance of this Underlying from September 26, 2008 to September 26, 2018 based on the Initial Price of \$62.09, which was its closing price on September 26, 2018. The solid line represents the Coupon Barrier and Downside Threshold of \$44.92, which is equal to 72.35% of the Initial Price (rounded to two decimal places).

n Hypothetical Coupon Barrier / Downside Threshold = 72.35%

**HISTORIC PERFORMANCE IS NOT AN INDICATION OF FUTURE PERFORMANCE.**

Source: Bloomberg L.P. We have not independently verified the accuracy or completeness of the information obtained from Bloomberg Financial Markets.

## Red Hat, Inc.

According to publicly available information, Red Hat, Inc. develops and provides open source software and services, including the Red Hat Linux operating system. The company's web site offers information and news about open source software and provides an online community of open source software users and developers.

Information filed by the company with the SEC under the Exchange Act can be located by reference to its SEC CIK number: 0001087423. The company's common stock is listed on the NYSE under the ticker symbol "RHT."

## Historical Information

The following table sets forth the quarterly high, low and period-end closing prices for this Underlying, based on daily closing prices, as reported by Bloomberg L.P. The historical performance of this Underlying should not be taken as an indication of its future performance during the term of the Notes.

Quarter Begin	Quarter End	Quarterly Closing High	Quarterly Closing Low	Quarterly Period-End Close
1/1/2008	3/31/2008	\$20.71	\$16.58	\$18.39
4/1/2008	6/30/2008	\$24.36	\$18.96	\$20.69
7/1/2008	9/30/2008	\$23.23	\$15.07	\$15.07
10/1/2008	12/31/2008	\$15.59	\$7.89	\$13.22
1/1/2009	3/31/2009	\$17.84	\$13.20	\$17.84
4/1/2009	6/30/2009	\$20.79	\$17.12	\$20.13
7/1/2009	9/30/2009	\$27.95	\$19.04	\$27.64
10/1/2009	12/31/2009	\$31.43	\$25.76	\$30.90
1/1/2010	3/31/2010	\$31.12	\$27.00	\$29.27
4/1/2010	6/30/2010	\$32.23	\$27.49	\$28.94
7/1/2010	9/30/2010	\$41.27	\$28.91	\$41.00
10/1/2010	12/31/2010	\$48.45	\$38.17	\$45.65
1/1/2011	3/31/2011	\$47.26	\$39.11	\$45.39
4/1/2011	6/30/2011	\$47.71	\$40.94	\$45.90
7/1/2011	9/30/2011	\$46.67	\$31.87	\$42.26
10/1/2011	12/31/2011	\$52.72	\$39.89	\$41.29
1/1/2012	3/31/2012	\$61.43	\$41.65	\$59.89
4/1/2012	6/30/2012	\$61.95	\$49.90	\$56.48
7/1/2012	9/30/2012	\$60.00	\$50.48	\$56.94
10/1/2012	12/31/2012	\$55.80	\$47.41	\$52.96
1/1/2013	3/31/2013	\$56.90	\$48.99	\$50.56
4/1/2013	6/30/2013	\$54.99	\$45.48	\$47.82
7/1/2013	9/30/2013	\$53.59	\$45.95	\$46.14
10/1/2013	12/31/2013	\$56.24	\$42.35	\$56.04
1/1/2014	3/31/2014	\$60.86	\$52.23	\$52.98
4/1/2014	6/30/2014	\$55.41	\$48.19	\$55.27
7/1/2014	9/30/2014	\$62.54	\$53.93	\$56.15
10/1/2014	12/31/2014	\$71.09	\$54.22	\$69.14
1/1/2015	3/31/2015	\$76.69	\$63.79	\$75.75
4/1/2015	6/30/2015	\$79.62	\$73.93	\$75.93
7/1/2015	9/30/2015	\$80.69	\$68.66	\$71.88
10/1/2015	12/31/2015	\$83.65	\$72.79	\$82.81
1/1/2016	3/31/2016	\$81.91	\$60.93	\$74.51
4/1/2016	6/30/2016	\$80.39	\$70.14	\$72.60
7/1/2016	9/30/2016	\$80.83	\$71.29	\$80.83
10/1/2016	12/31/2016	\$80.55	\$68.71	\$69.70
1/1/2017	3/31/2017	\$86.73	\$70.12	\$86.50
4/1/2017	6/30/2017	\$99.42	\$84.68	\$95.75
7/1/2017	9/30/2017	\$110.86	\$94.79	\$110.86

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10/1/2017	12/31/2017	\$129.44	\$111.93	\$120.10
1/1/2018	3/31/2018	\$155.48	\$121.04	\$149.51
4/1/2018	6/30/2018	\$176.27	\$132.74	\$134.37
7/1/2018	9/26/2018*	\$151.90	\$133.81	\$135.72

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The graph below illustrates the performance of this Underlying from September 26, 2008 to September 26, 2018 based on the Initial Price of \$135.72, which was its closing price on September 26, 2018. The solid line represents the Coupon Barrier and Downside Threshold of \$99.41, which is equal to 73.25% of the Initial Price (rounded to two decimal places).

n Hypothetical Coupon Barrier / Downside Threshold = 73.25%

**HISTORIC PERFORMANCE IS NOT AN INDICATION OF FUTURE PERFORMANCE.**

Source: Bloomberg L.P. We have not independently verified the accuracy or completeness of the information obtained from Bloomberg Financial Markets.

#### Supplemental Plan of Distribution (Conflicts of Interest)

We have agreed to indemnify UBS and RBCCM against liabilities under the Securities Act of 1933, as amended, or to contribute payments that UBS and RBCCM may be required to make relating to these liabilities as described in the prospectus supplement and the prospectus. We have agreed that UBS Financial Services Inc. may sell all or a part of the Notes that it will purchase from us to investors or to its affiliates at the price indicated on the cover of this pricing supplement.

Subject to regulatory constraints and market conditions, RBCCM intends to offer to purchase each of the Notes in the secondary market, but it is not required to do so.

We or our affiliates may enter into swap agreements or related hedge transactions with one of our other affiliates or unaffiliated counterparties in connection with the sale of each of the Notes and RBCCM and/or an affiliate may earn additional income as a result of payments pursuant to the swap or related hedge transactions. See “Use of Proceeds and Hedging” in the accompanying product prospectus supplement no. UBS-TACYN-1.

The value of the applicable Notes shown on your account statement may be based on RBCCM’s estimate of the value of the Notes if RBCCM or another of our affiliates were to make a market in the Notes (which it is not obligated to do). That estimate will be based upon the price that RBCCM may pay for the Notes in light of then prevailing market conditions, our creditworthiness and transaction costs. For a period of approximately 6 months after the issue date of the Notes, the value of the Notes that may be shown on your account statement may be higher than RBCCM’s estimated value of the Notes at that time. This is because the estimated value of the Notes will not include the underwriting discount and our hedging costs and profits; however, the value of the Notes shown on your account statement during that period may be a higher amount, reflecting the addition of the underwriting discount and our estimated costs and profits from hedging the Notes. Any such excess is expected to decrease over time until the end of this period. After this period, if RBCCM repurchases your Notes, it expects to do so at prices that reflect their estimated value. This period may be reduced at RBCCM’s discretion based on a variety of factors, including but not limited to, the amount of the Notes that we repurchase and our negotiated arrangements from time to time with UBS. For additional information as to the relationship between us and RBCCM, please see the section “Plan of Distribution—Conflicts of Interest” in the prospectus dated September 7, 2018.

#### Structuring the Notes

The Notes are our debt securities, the return on which is linked to the performance of the applicable Underlying. As is the case for all of our debt securities, including our structured notes, the economic terms of the Notes reflect our actual or perceived creditworthiness at the time of pricing. In addition, because structured notes result in increased operational, funding and liability management costs to us, we typically borrow the funds under these Notes at a rate that is more favorable to us than the rate that we might pay for a conventional fixed or floating rate debt security of comparable maturity. Using this relatively lower implied borrowing rate rather than the secondary market rate is a factor that resulted in a higher initial estimated value of the Notes at the time their terms are set than if the secondary market rate was used. Unlike the estimated value included on the cover of this document, any value of the Notes determined for purposes of a secondary market transaction may be based on a different borrowing rate, which may result in a lower value for each of the Notes than if our initial internal borrowing rate were used.

In order to satisfy our payment obligations under the Notes, we may choose to enter into certain hedging arrangements (which may include call options, put options or other derivatives) on the issue date with RBCCM or one of our other subsidiaries. The terms of these hedging arrangements take into account a number of factors, including our creditworthiness, interest rate movements, the volatility of the applicable Underlying, and the tenor of the Notes. The economic terms of the Notes and their initial estimated value depend in part on the terms of these hedging arrangements.

The lower implied borrowing rate is a factor that reduced the economic terms of the Notes to you. The initial offering price of the Notes also reflects the underwriting commission and our estimated hedging costs. These factors resulted in the initial estimated value for the Notes on the Trade Date being less than their public offering price. See “Key Risks—The Initial Estimated Value of the Notes Is Less than the Price to the Public” above.

#### Terms Incorporated in Master Note

The terms appearing above under the caption “Final Terms of the Notes” and the provisions in the accompanying product prospectus supplement no. UBS-TACYN-1 dated October 3, 2018 under the caption “General Terms of the

Securities” are incorporated into the master note issued to DTC, the registered holder of the Notes.

#### Validity of the Notes

The pricing supplement dated September 26, 2018 stated as follows:

In the opinion of Norton Rose Fulbright Canada LLP, the issue and sale of the Notes has been duly authorized by all necessary corporate action of the Bank in conformity with the Indenture, and when the Notes have been duly executed, authenticated and issued in accordance with the Indenture and delivered against payment therefor, the Notes will be validly issued and, to the extent validity of the Notes is a matter governed by the laws of the Province of Ontario or Québec, or the laws of Canada applicable therein, and will be valid obligations of the Bank, subject to equitable remedies which may only be granted at the discretion of a court of competent authority, subject to applicable bankruptcy, to rights to indemnity and contribution under the Notes or the Indenture which may be limited by applicable law; to insolvency and other laws of general application affecting creditors’ rights, to limitations under applicable limitations statutes, and to limitations as to the currency in which judgments in Canada may be rendered, as prescribed by the Currency Act (Canada). This opinion is given as of the date hereof and is limited to the laws of the Provinces of Ontario and Québec and the federal laws of Canada applicable thereto. In addition, this opinion is subject to customary assumptions about the Trustee’s authorization, execution and delivery of the Indenture and the genuineness of signatures and certain factual matters, all as stated in the letter of such counsel dated September 7, 2018, which has been filed as Exhibit 5.1 to Royal Bank’s Form 6-K filed with the SEC dated September 7, 2018. In the opinion of Morrison & Foerster LLP, when the Notes have been duly completed in accordance with the Indenture and issued and sold as contemplated by the prospectus supplement and the prospectus, the Notes will be valid, binding and enforceable obligations of Royal Bank, entitled to the benefits of the Indenture, subject to applicable bankruptcy, insolvency and similar laws affecting creditors’ rights generally, concepts of reasonableness and equitable principles of general applicability (including, without limitation, concepts of good faith, fair dealing and the lack of bad faith). This opinion is given as of the date hereof and is limited to the laws of the State of New York. This opinion is subject to customary assumptions about the Trustee’s authorization, execution and delivery of the Indenture and the genuineness of signatures and to such counsel’s reliance on the Bank and other sources as to certain factual matters, all as stated in the legal opinion dated September 7, 2018, which has been filed as Exhibit 5.2 to the Bank’s Form 6-K dated September 7, 2018.