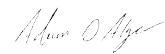


TR3932-RFX

Equipment Under Test:	Indian Ride Command
Requirement(s):	FCC: 1.1307, 1.1310 ISED: RSS-102
Test Date(s):	05/11/2026
Prepared for:	Polaris Industries Inc. Attn: Laura Zehnder 2100 Highway 55 Medina, MN 55340

Report Issued by: Dylan Rosenfeldt, EMC Engineer	
Signature: 	Date: 06/05/2026
Report Reviewed by: Adam Alger, Sr. Manager EMC Laboratory	
Signature: 	Date: 06/03/2026
Report Constructed by: Dylan Rosenfeldt, EMC Engineer	
Signature: 	Date: 05/11/2026

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Company: Polaris Industries Inc.	Page 1 of 39	Name: Indian Ride Command
Report: TR3932-RFX		Model: RCIP-1230
Quote: NBO-06-2025-008193		Serial: Conducted Sample 1, Radiated Sample 1

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Ezurio Test Services in Review

The Ezurio laboratory located at W66 N220 Commerce Court Cedarburg, Wisconsin, 53012 USA is recognized through the following organizations:



A2LA – American Association for Laboratory Accreditation

Accreditation based on ISO/IEC 17025:2017 with Electrical (EMC) Scope

A2LA Certificate Number: 1255.01

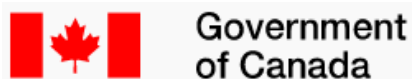
Scope of accreditation includes all test methods listed herein unless otherwise noted



Federal Communications Commission (FCC) – USA

Accredited Test Firm Registration Number: 953492

Recognition of two 3 meter Semi-Anechoic Chambers



Innovation, Science and Economic Development Canada

Accredited U.S. Identification Number: US0218

Recognition of two 3 meter Semi-Anechoic Chambers

Company: Polaris Industries Inc.	Page 5 of 39	Name: Indian Ride Command
Report: TR3932-RFX		Model: RCIP-1230
Quote: NBO-06-2025-008193		Serial: Conducted Sample 1, Radiated Sample 1

1 TEST REPORT SUMMARY

During **05/11/2026** the Equipment Under Test (EUT), **Indian Ride Command**, as provided by **Polaris Industries Inc.** was tested to the following requirements:

Requirements	Description	Method	Compliant
FCC Part 1.1310, 2.1091	Radio Frequency Radiation Exposure Evaluation	ANSI C63.10	Yes
ISED RSS-102	Radio Frequency Exposure Compliance of Radiocommunication Apparatus	RSS-102	Yes

Notice:

The results relate only to the item tested as configured and described in this report. Any additional configurations, modes of operation, or modifications made to the equipment under test after the specified test date(s) are at the decision of the client and may not apply to the data seen in this test report.

The decision rule for Pass / Fail assessment to the specification or standard listed in this test report has been agreed upon by the client and laboratory to be as follows:

Measurement Type	Rule
Emissions – Amplitude	4.7 dB below specified limit
Emissions – Frequency	1% less than the specification
Immunity	Tested at specified level

2 CLIENT INFORMATION

Company Name	Polaris Industries Inc.
Contact Person	Laura Zehnder
Address	2100 Highway 55 Medina, MN 55340

2.1 Equipment Under Test (EUT) Information

The following information has been supplied by the client

Product Name	Indian Ride Command
Model Number	RCIP-1230
Serial Number	Conducted Sample 1, Radiated Sample 1
Date of Receipt	03/30/2026
Condition	Good
FCC ID	2AOW7-RCIP-1230V1
IC ID	5966A-RCIP1230V1

2.2 Product Description

The Indian Ride Command RCIP-1230 is an infotainment display. The display supports AM/FM/WB radio, Bluetooth connectivity, Wi-Fi connectivity, vehicle health/performance information, GPS, and maps.

2.3 Modifications Incorporated for Compliance

None noted at time of test

2.4 Deviations and Exclusions from Test Specifications

None noted at time of test

Company: Polaris Industries Inc.	Page 7 of 39	Name: Indian Ride Command
Report: TR3932-RFX		Model: RCIP-1230
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2.5 EUT Information

Power Supply - 12V via Automotive Battery or DC Bench Supply

Firmware Version - RCS2.2.0.D6.2603181108patr

Test Software - Compliance HMI v3.0.0

Ancillary Equipment - HP Elitebook 840G1

2.6 Antenna Information

Manufacturer	Radio	Model / Part Number	Type	Peak Gain (dBi) 2400 - 2500 MHz
F3 Wireless	Infineon BT	-	Trace	6.3
F3 Wireless	Murata WLAN	-	Trace	2.6
F3 Wireless	Murata BT	-	Trace	7.0

2.7 Test Channels - BLE (Murata)

Channel	Frequency (MHz)	BW (MHz)	Data Rates
0	2402	2	BLE 1M, 2M, 500k, 125k
19	2440	2	
39	2480	2	

2.8 Test Channels - BLE (Infineon)

Channel	Frequency (MHz)	BW (MHz)	Data Rates
0	2402	2	BLE 1M
19	2440	2	
39	2480	2	

2.9 Test Channels – Bluetooth Classic (Infineon)

Channel	Frequency (MHz)	Data Rates
0	2402	1Mbps, 2Mbps, 3Mbps
39	2441	
78	2480	

2.10 Test Channels – Bluetooth Classic (Murata)

Channel	Frequency (MHz)	Data Rates
0	2402	1Mbps, 2Mbps, 3Mbps
39	2441	
78	2480	

2.11 Test Channels – WLAN

Channel	Frequency (MHz)	Bandwidth (MHz)	Data Rates
1	2412	20	802.11b – 1 and 11 Mbps
6	2437	20	802.11g – 6 and 54 Mbps
11	2462	20	802.11n – MCS0 and MCS7

2.12 Power Table and Reduced Video Bandwidth for Average Measurements

Mode	Data Rate	Power Setting	Minimum Average VBW (Hz)
BLE (Murata)	1M	12	469
BLE (Murata)	2M	12	939
BLE (Murata)	500k	12	59
BLE (Murata)	125k	12	220
BLE (Infineon)	1M	4	469
802.11b	1 Mbps	14	81
802.11b	11 Mbps	14	829
802.11g	6 Mbps	11	484
802.11g	54 Mbps	11	4032
802.11n	MCS0	10	522
802.11n	MCS7	10	4384
BTC (Infineon)	1Mbps	2	10
BTC (Infineon)	2Mbps	6	10
BTC (Infineon)	3Mbps	6	10
BTC (Murata)	1Mbps	12	10
BTC (Murata)	2Mbps	12	10
BTC (Murata)	3Mbps	12	10

3 REFERENCES

Publication	Edition	Date	AMD 1	AMD 2
eCFR	-	2026	-	-
RSS-102	6	2023	-	-
ANSI C63.10	-	2020	2024	-
KDB 447498 D01	v06	2015	-	-

References not on Scope of Accreditation

Publication	Edition	Date	AMD 1	AMD 2
KDB 447498 D01	v06	2015	-	-

4 UNCERTAINTY SUMMARY

Using the guidance of the following publications the calculated measurement uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level, using a coverage factor of $k = 2$.

References
CISPR 16-4-1
CISPR 16-4-2
CISPR 32
ANSI C63.23
A2LA P103
A2LA P103c
ETSI TR 100-028

Measurement Type	Configuration	Uncertainty $\pm$
Radiated Emissions	Biconical Antenna	5.0 dB
Radiated Emissions	Log Periodic Antenna	5.3 dB
Radiated Emissions	Horn Antenna	4.7 dB
AC Line Conducted Emissions	Artificial Mains Network	3.4 dB
Telecom Conducted Emissions	Asymmetric Artificial Network	4.9 dB
Disturbance Power Emissions	Absorbing Clamp	4.1 dB
Radiated Immunity	3 Volts/meter	2.2 dB
Conducted Immunity	CDN/EM/BCI	2.4/3.5/3.4 dB
EFT Burst/Surge	Peak pulse voltage	164 volts
ESD Immunity	15 kV level	1377 Volts

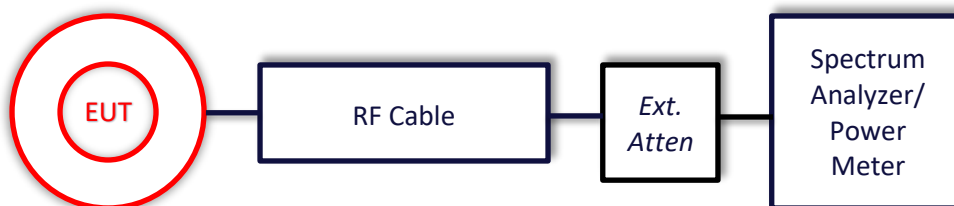
Parameter	ETSI U.C. $\pm$	U.C. $\pm$
Radio Frequency, from F0	1×10^{-7}	0.55×10^{-7}
Occupied Channel Bandwidth	5 %	2 %
RF conducted Power (Power Meter)	1.5 dB	1.2 dB
RF conducted emissions (Spectrum Analyzer)	3.0 dB	1.7 dB
All emissions, radiated	6.0 dB	5.3 dB
Temperature	1° C	0.65° C
Humidity	5 %	2.9 %
Supply voltages	3 %	1 %

5 TEST DATA

5.1 Antenna Port Conducted Emissions

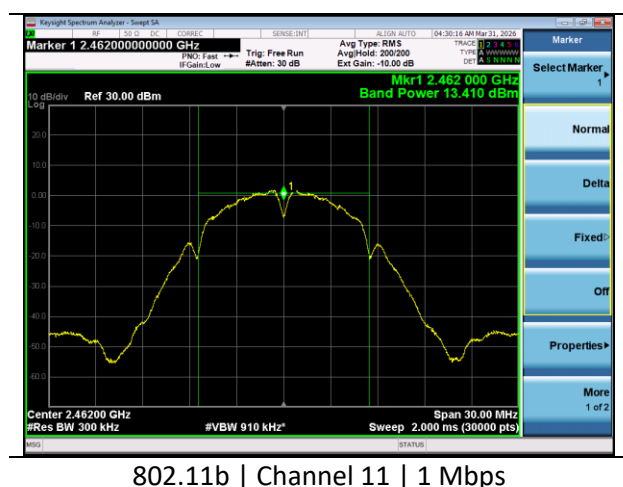
Description of Measurement	The direct measurement of emissions at the antenna port of the EUT is achieved by use of a RF connection to a spectrum analyzer or power meter. The cable and attenuator factors are loaded into the analyzer or power meter allowing for direct measurement readings without the need for further corrections.
Example Calculations	Measurement (dBm) + Cable factor (dB) + External Attenuator (dB) = Corrected Reading (dBm) Margin (dB) = Limit (dBm) – Corrected Reading (dBm)

Block Diagram



5.1.1 Antenna Port Conducted Emissions – RF Output Power 2.4GHz WLAN

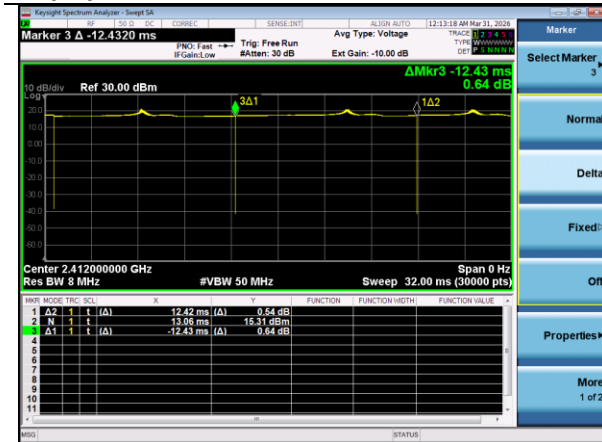
Channel	Mode	Avg Measured Output Power (dBm)	Duty Cycle Correction (dB)	Corrected Avg Output Power (dBm)	Limit (dBm)	Margin (dB)	Power Setting
1	802.11b 1M	13.1	0.0	13.1	30	16.9	14
6	802.11b 1M	13.2	0.0	13.2	30	16.8	14
11	802.11b 1M	13.4	0.0	13.4	30	16.6	14
1	802.11b 11M	13.0	0.1	13.1	30	16.9	14
6	802.11b 11M	13.1	0.1	13.2	30	16.8	14
11	802.11b 11M	13.3	0.1	13.4	30	16.6	14
1	802.11g 6M	10.2	0.0	10.2	30	19.8	11
6	802.11g 6M	10.4	0.0	10.4	30	19.6	11
11	802.11g 6M	10.5	0.0	10.5	30	19.5	11
1	802.11g 54M	9.6	0.4	10.0	30	20.0	11
6	802.11g 54M	9.6	0.4	10.0	30	20.0	11
11	802.11g 54M	9.8	0.4	10.2	30	19.8	11
1	802.11n MCS0	9.3	0.0	9.3	30	20.7	10
6	802.11n MCS0	9.6	0.0	9.6	30	20.4	10
11	802.11n MCS0	9.7	0.0	9.7	30	20.3	10
1	802.11n MCS7	8.6	0.4	9.0	30	21.0	10
6	802.11n MCS7	8.8	0.4	9.2	30	20.8	10
11	802.11n MCS7	8.9	0.4	9.3	30	20.7	10



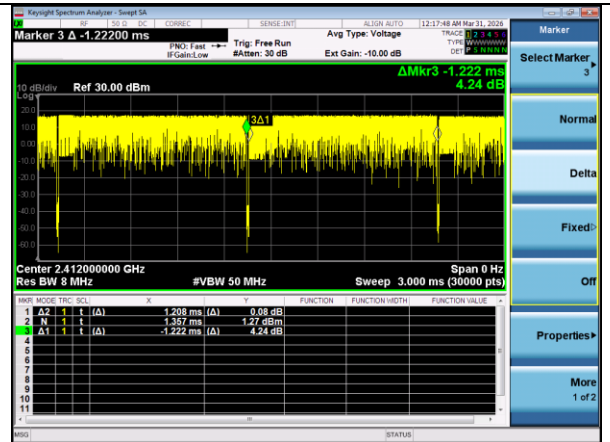
Duty Cycle Table

Mode	On-Time (us)	Period (us)	Duty Cycle	Avg VBW (Hz)	DC correction
802.11b 1M	12420	12430	99.9%	80.5	0.0
802.11b 11M	1208	1222	98.9%	827.8	0.1
802.11g 6M	2064	2085	99.0%	484.5	0.0
802.11g 54M	247.9	269.4	92.0%	4033.9	0.4
802.11n MCS0	1941	1962	98.9%	515.2	0.0
802.11n MCS7	228.2	249.3	91.5%	4382.1	0.4

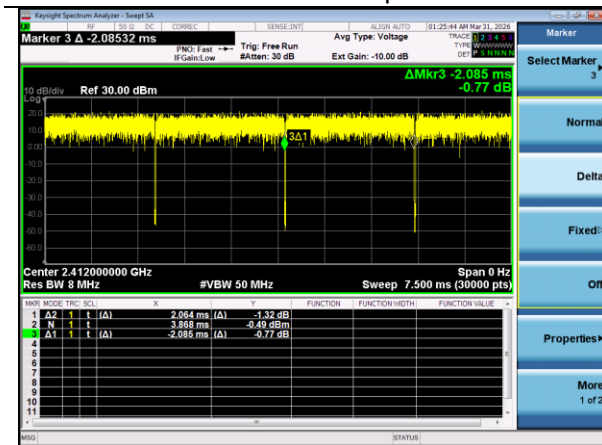
Duty Cycle Plots



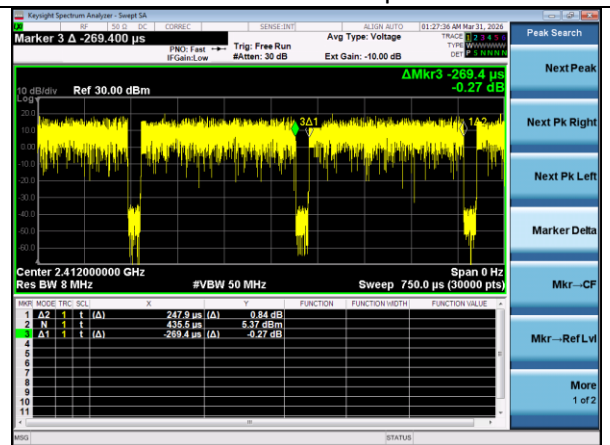
802.11b 1 Mbps



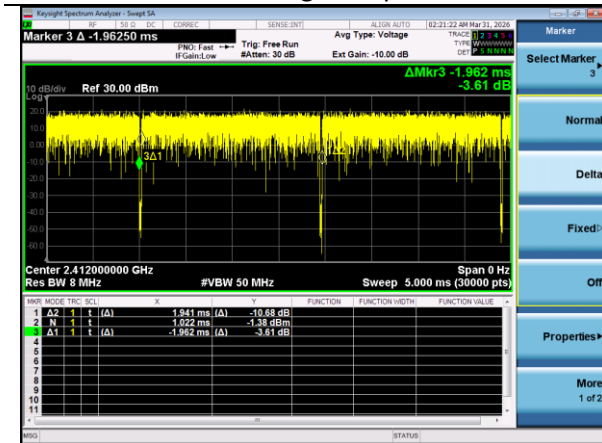
802.11b 11 Mbps



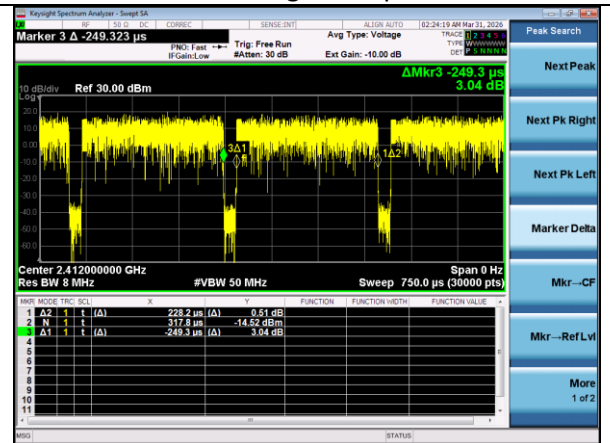
802.11g 6 Mbps



802.11g 54 Mbps



802.11n MCS0



802.11n MCS7

Company: Polaris Industries Inc.

Report: TR3932-RFX

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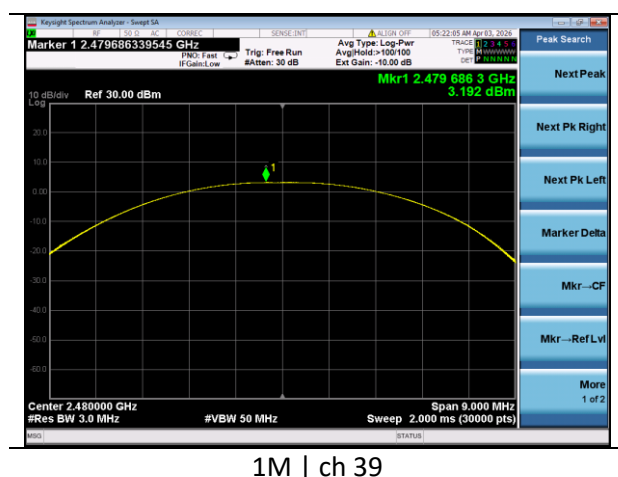
Name: Indian Ride Command

Model: RCIP-1230

Serial: Conducted Sample 1, Radiated Sample 1

5.1.2 Antenna Port Conducted Emissions – RF Output Power BLE (Infineon)

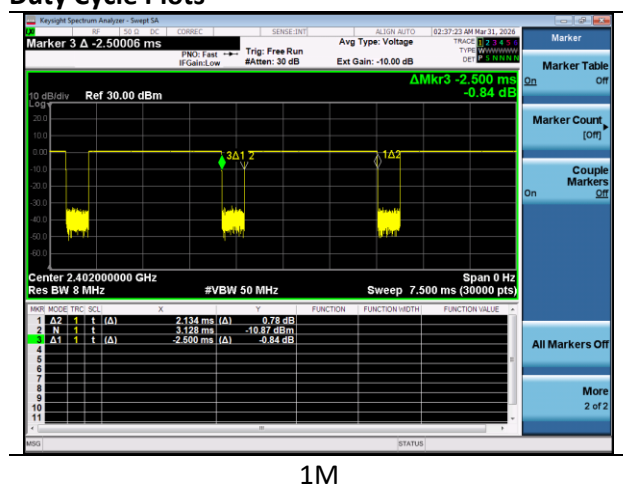
Channel	Mode	Pk Output Power (dBm)	Limit (dBm)	Margin (dB)	Power Setting
0	BLE 1M	1	30	29.0	4
19	BLE 1M	2.2	30	27.8	4
39	BLE 1M	3.2	30	26.8	4



Duty Cycle Table

Mode	On-Time (us)	Period (us)	Duty Cycle	Avg VBW (Hz)	DC correction
1M	2134	2500	85.4%	468.6	0.7

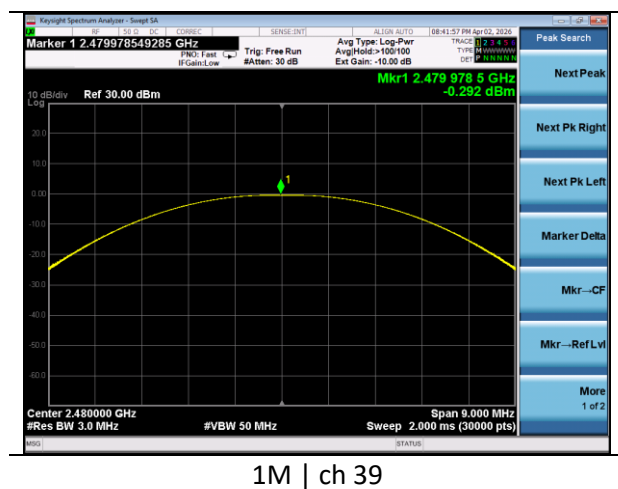
Duty Cycle Plots



1M

5.1.3 Antenna Port Conducted Emissions – RF Output Power BLE (Murata)

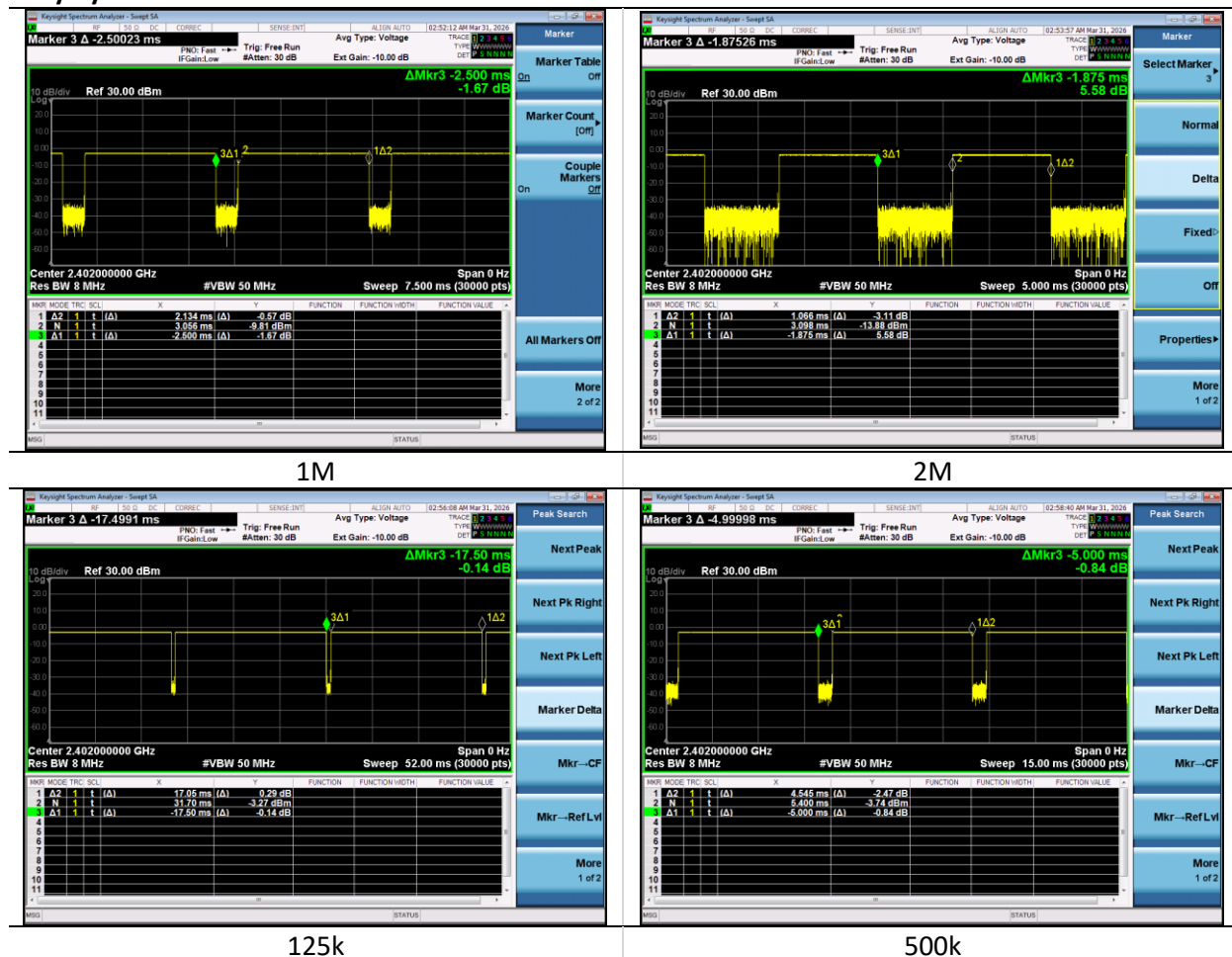
Channel	Mode	Pk Output Power (dBm)	Limit (dBm)	Margin (dB)	Power Setting
0	BLE 1M	-1.4	30	31.4	12
19	BLE 1M	-1.1	30	31.1	12
39	BLE 1M	-0.3	30	30.3	12
0	BLE 2M	-1.7	30	31.7	12
19	BLE 2M	-0.5	30	30.5	12
39	BLE 2M	-0.3	30	30.3	12
0	BLE 125k	-1.4	30	31.4	12
19	BLE 125k	-1.1	30	31.1	12
39	BLE 125k	-0.4	30	30.4	12
0	BLE 500k	-1.4	30	31.4	12
19	BLE 500k	-0.9	30	30.9	12
39	BLE 500k	-0.4	30	30.4	12



Duty Cycle Table

Mode	On-Time (us)	Period (us)	Duty Cycle	Avg VBW (Hz)	DC correction
1M	2134	2500	85.4%	468.6	0.7
2M	1066	1875	56.9%	938.1	2.5
125k	17050	17500	97.4%	58.7	0.1
500k	4545	5000	90.9%	220.0	0.4

Duty Cycle Plots



Company: Polaris Industries Inc.

Report: TR3932-RFX

Quote: NBO-06-2025-008193

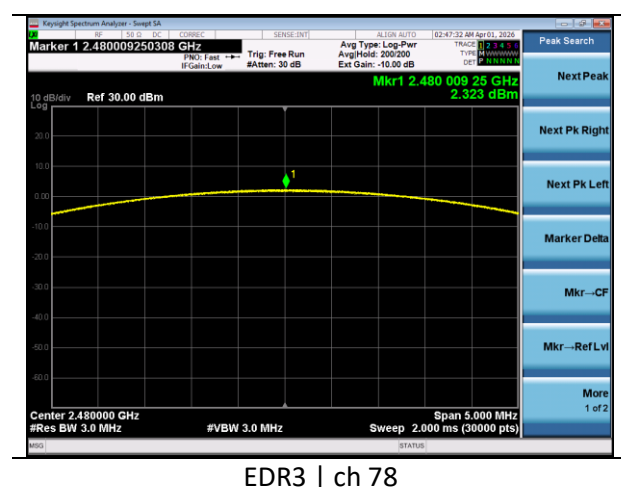
Name: Indian Ride Command

Model: RCIP-1230

Serial: Conducted Sample 1, Radiated Sample 1

5.1.4 Antenna Port Conducted Emissions – RF Output Power BTC (Infineon)

Channel	Mode	Pk Output Power (dBm)	Limit (dBm)	Margin (dB)	Power Setting
0	BR	-1.6	30	31.6	2
0	EDR2	0.6	30	29.4	6
0	EDR3	1.1	30	28.9	6
39	BR	-0.6	30	30.6	2
39	EDR2	1.5	30	28.5	6
39	EDR3	2.0	30	28.0	6
78	BR	-0.1	30	30.1	2
78	EDR2	1.9	30	28.1	6
78	EDR3	2.3	30	27.7	6



EDR3 | ch 78

Duty Cycle Table

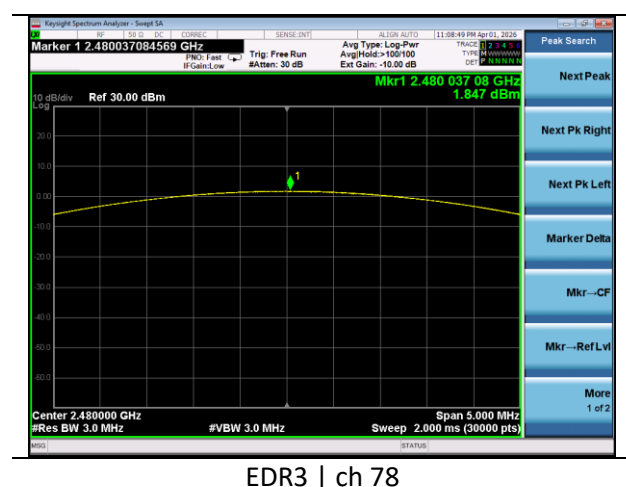
Mode	On-Time (us)	Period (us)	Duty Cycle	Avg VBW (Hz)	DC correction
BTC BR	5000000	5000000	100.0%	0.2	0.0
BTC EDR2	5000000	5000000	100.0%	0.2	0.0
BTC EDR3	5000000	5000000	100.0%	0.2	0.0

Duty Cycle Plots



5.1.5 Antenna Port Conducted Emissions – RF Output Power BTC (Murata)

Channel	Mode	Pk Output Power (dBm)	Limit (dBm)	Margin (dB)	Power Setting
0	BR	-1.9	30	31.9	12
0	EDR2	-1.6	30	31.6	12
0	EDR3	-1.1	30	31.1	12
39	BR	0.9	30	29.1	12
39	EDR2	0.9	30	29.1	12
39	EDR3	1.4	30	28.6	12
78	BR	1.5	30	28.5	12
78	EDR2	1.4	30	28.6	12
78	EDR3	1.8	30	28.2	12



EDR3 | ch 78

Duty Cycle Table

Mode	On-Time (us)	Period (us)	Duty Cycle	Avg VBW (Hz)	DC correction
BTC BR	5000000	5000000	100.0%	0.2	0.0
BTC EDR2	5000000	5000000	100.0%	0.2	0.0
BTC EDR3	5000000	5000000	100.0%	0.2	0.0

Duty Cycle Plots



6 POWER DENSITY FORMULA

$$S_{FF} = \frac{G_{i(\theta,\phi)} P_{in}}{4\pi d^2}$$

IEEE Std C95.3-2021

where

S_{FF} is the far-field power density (W/m²)

$G_i(\theta, \phi)$ is the far-field antenna gain in direction (θ, ϕ) spherical coordinates (power ratio with respect to isotropic).

P_{in} is the power into the antenna (W)

d is the distance to the antenna (m)

Company: Polaris Industries Inc.	Page 24 of 39	Name: Indian Ride Command
Report: TR3932-RFX		Model: RCIP-1230
Quote: NBO-06-2025-008193		Serial: Conducted Sample 1, Radiated Sample 1

7 FCC LIMIT FOR MAXIMUM PERMISSIBLE EXPOSURE

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) LIMITS FOR OCCUPATIONAL/CONTROLLED EXPOSURE				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

eCFR 1.1310(E)(1)

8 ISED LIMIT FOR MAXIMUM PERMISSIBLE EXPOSURE

Frequency range (MHz)	Electric field (V _{RMS} /m)	Magnetic field (A _{RMS} /m)	Power density (W/m ²)	Reference period (minutes)
10-20	27.46	0.0728	2	6
20-48	$58.07 / f^{0.25}$	$0.1540 / f^{0.25}$	$8.944 / f^{0.5}$	6
48-300	22.06	0.05852	1.291	6
300-6000	$3.142 f^{0.3417}$	$0.008335 f^{0.3417}$	$0.02619 f^{0.6834}$	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	$616000 / f^{1.2}$
150000-300000	$0.158 f^{0.5}$	$4.21 \times 10^{-4} f^{0.5}$	$6.67 \times 10^{-5} f$	$616000 / f^{1.2}$

RSS-102 5.3.2

9 FCC RF RADIATION EXPOSURE – 2.4GHZ WLAN

9.1 Distance

≥ 20cm

9.2 Power Calculation

Max Power of Channel = 13.4 dBm (802.11b, 1Mbps, channel 11)

Antenna Gain = 2.6 dBi

Tune-up Tolerance = 1.00 dB

Total Power = 17.0 dBm + Antenna Gain + Tune-up Tolerance = 17.0 dBm = 50.1 mW

9.3 ERP Power Density

$$S = \frac{50.1mW}{4\pi(20)^2}$$

$$S = 0.0100 mW/cm^2$$

9.4 Result

WLAN is compliant with the RF Exposure limit given in eCFR 1.1310 at 20cm as the power density is less than 1mW/cm²

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10 FCC RF RADIATION EXPOSURE – BLE (INFINEON)

10.1 Distance

≥ 20cm

10.2 Power Calculation

Max Power of Channel = 3.2 dBm (1M, channel 39)

Antenna Gain = 6.3 dBi

Tune-up Tolerance = 1.00 dB

Total Power = 3.2 dBm + Antenna Gain + Tune-up Tolerance = 10.5 dBm = 11.2 mW

10.3 ERP Power Density

$$S = \frac{11.2mW}{4\pi(20)^2}$$

$$S = 0.0022 mW/cm^2$$

10.4 Result

Infineon BLE is compliant with the RF Exposure limit given in eCFR 1.1310 at 20cm as the power density is less than 1mW/cm²

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11 FCC RF RADIATION EXPOSURE – BLE (MURATA)

11.1 Distance

≥ 20cm

11.2 Power Calculation

Max Power of Channel = -0.3 dBm (1M, channel 39)

Antenna Gain = 7.0 dBi

Tune-up Tolerance = 1.00 dB

Total Power = -0.3 dBm + Antenna Gain + Tune-up Tolerance = 7.7 dBm = 5.9 mW

11.3 ERP Power Density

$$S = \frac{5.9mW}{4\pi(20)^2}$$

$$S = 0.0012 mW/cm^2$$

11.4 Result

Murata BLE is compliant with the RF Exposure limit given in eCFR 1.1310 at 20cm as the power density is less than 1mW/cm²

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12 FCC RF RADIATION EXPOSURE – BTC (INFINEON)

12.1 Distance

≥ 20cm

12.2 Power Calculation

Max Power of Channel = 2.3 dBm (EDR3, channel 78)

Antenna Gain = 6.3 dBi

Tune-up Tolerance = 1.00 dB

Total Power = 2.3 dBm + Antenna Gain + Tune-up Tolerance = 9.6 dBm = 9.1 mW

12.3 ERP Power Density

$$S = \frac{9.1mW}{4\pi(20)^2}$$

$$S = 0.0018 mW/cm^2$$

12.4 Result

Infineon Bluetooth Classic is compliant with the RF Exposure limit given in eCFR 1.1310 at 20cm as the power density is less than 1mW/cm²

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13 FCC RF RADIATION EXPOSURE – BTC (MURATA)

13.1 Distance

≥ 20cm

13.2 Power Calculation

Max Power of Channel = 1.8 dBm (EDR3, channel 78)

Antenna Gain = 7.0 dBi

Tune-up Tolerance = 1.00 dB

Total Power = 1.8 dBm + Antenna Gain + Tune-up Tolerance = 9.8 dBm = 9.5 mW

13.3 ERP Power Density

$$S = \frac{9.5mW}{4\pi(20)^2}$$

$$S = 0.0019 mW/cm^2$$

13.4 Result

Murata Bluetooth Classic is compliant with the RF Exposure limit given in eCFR 1.1310 at 20cm as the power density is less than 1mW/cm²

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14 ISED RF RADIATION EXPOSURE – 2.4GHz WLAN

14.1 Distance

≥ 20cm

14.2 Power Calculation

Max Power of Channel = 13.4 dBm (802.11b, 1Mbps, channel 11)

Antenna Gain = 2.6 dBi

Tune-up Tolerance = 1.00 dB

Total Power = 17.0 dBm + Antenna Gain + Tune-up Tolerance = 17.0 dBm = 50.1 mW

14.3 ERP Power Density

$$S = \frac{0.051W}{4\pi(0.2)^2}$$

$$S = 0.0997 W/m^2$$

14.4 Result

WLAN is compliant with the RF Exposure limit given in RSS-102 at 20cm as the power density is less than 5.44W/m²

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15 ISED RF RADIATION EXPOSURE – BLE (INFINEON)

15.1 Distance

≥ 20cm

15.2 Power Calculation

Max Power of Channel = 3.2 dBm (1M, channel 39)

Antenna Gain = 6.3 dBi

Tune-up Tolerance = 1.00 dB

Total Power = 3.2 dBm + Antenna Gain + Tune-up Tolerance = 10.5 dBm = 11.2 mW

15.3 ERP Power Density

$$S = \frac{0.0112W}{4\pi(0.2)^2}$$

$$S = 0.0223 W/m^2$$

15.4 Result

Infineon BLE is compliant with the RF Exposure limit given in RSS-102 at 20cm as the power density is less than 5.47W/m²

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16 ISED RF RADIATION EXPOSURE – BLE (MURATA)

16.1 Distance

≥ 20cm

16.2 Power Calculation

Max Power of Channel = -0.3 dBm (1M, channel 39)

Antenna Gain = 7.0 dBi

Tune-up Tolerance = 1.00 dB

Total Power = -0.3 dBm + Antenna Gain + Tune-up Tolerance = 7.7 dBm = 5.9 mW

16.3 ERP Power Density

$$S = \frac{0.0059W}{4\pi(0.2)^2}$$

$$S = 0.0117 W/m^2$$

16.4 Result

Murata BLE is compliant with the RF Exposure limit given in RSS-102 at 20cm as the power density is less than 5.47W/m²

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17 ISED RF RADIATION EXPOSURE – BTC (INFINEON)

17.1 Distance

≥ 20cm

17.2 Power Calculation

Max Power of Channel = 2.3 dBm (EDR3, channel 78)

Antenna Gain = 6.3 dBi

Tune-up Tolerance = 1.00 dB

Total Power = 2.3 dBm + Antenna Gain + Tune-up Tolerance = 9.6 dBm = 9.1 mW

17.3 ERP Power Density

$$S = \frac{0.0091W}{4\pi(0.2)^2}$$

$$S = 0.0181 W/m^2$$

17.4 Result

Infineon Bluetooth Classic is compliant with the RF Exposure limit given in RSS-102 at 20cm as the power density is less than 5.47W/m²

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18 ISED RF RADIATION EXPOSURE – BTC (MURATA)

18.1 Distance

≥ 20cm

18.2 Power Calculation

Max Power of Channel = 1.8 dBm (EDR3, channel 78)

Antenna Gain = 7.0 dBi

Tune-up Tolerance = 1.00 dB

Total Power = 1.8 dBm + Antenna Gain + Tune-up Tolerance = 9.8 dBm = 9.5 mW

18.3 ERP Power Density

$$S = \frac{0.0095W}{4\pi(0.2)^2}$$

$$S = 0.0189 W/m^2$$

18.4 Result

Infineon Bluetooth Classic is compliant with the RF Exposure limit given in RSS-102 at 20cm as the power density is less than 5.47W/m²

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19 FCC RF EXPOSURE FROM MULTIPLE SOURCES

19.1 Limit

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$$

The sum of the fractional contributions to the applicable thresholds must be less than or equal to 1.

19.2 Ratios

WLAN – 0.0100

BLE (Infineon) – 0.0022

BLE (Murata) – 0.0012

BTC (Infineon) – 0.0018

BTC (Murata) – 0.0019

19.3 Simultaneous Transmissions

Bluetooth Radios are not capable of transmitting simultaneously.

Possible Combinations and Sum of Ratios:

WLAN + BLE(Infineon) = 0.0122

WLAN + BLE(Murata) = 0.0112

WLAN + BTC(Infineon) = 0.0118

WLAN + BTC(Murata) = 0.0119

19.4 Result

Simultaneous Transmission is compliant with the RF Exposure limit given in eCFR 1.1307 at 20cm as the sum of the ratios to the limit is less than 1.

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20 ISED RF EXPOSURE FROM MULTIPLE SOURCES

20.1 Limit

The sum of the fractional contributions to the applicable thresholds must be less than or equal to 1.

20.2 Ratios

WLAN – 0.0183

BLE (Infineon) – 0.0041

BLE (Murata) – 0.0021

BTC (Infineon) – 0.0033

BTC (Murata) – 0.0035

20.3 Simultaneous Transmissions

Bluetooth Radios are not capable of transmitting simultaneously.

Possible Combinations and Sum of Ratios:

WLAN + BLE (Infineon) = 0.0224

WLAN + BLE (Murata) = 0.0204

WLAN + BTC (Infineon) = 0.0216

WLAN + BTC (Murata) = 0.0218

20.4 Result

Simultaneous Transmission is compliant with the RF Exposure limit given in RSS-102 at 20cm as the sum of the ratios to the limit is less than 1.

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21 REVISION HISTORY

Version	Date	Notes	Person
0	05/11/2026	Initial Draft	Dylan Rosenfeldt
1	05/13/2026	Updated section 2	Dylan Rosenfeldt
2	06/05/2026	Updated company name and address	Dylan Rosenfeldt

END OF REPORT