

Polaris Industries, Inc.

7 Inch Snow, RC-7W

FCC 15.247:2020 902 - 928 MHz FHSS Transceiver

Report: POLR0070.4, Issue Date: July 10, 2020



TESTING

NVLAP LAB CODE: 200630-0



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CERTIFICATE OF TEST



Last Date of Test: April 29, 2020 Polaris Industries, Inc. EUT: 7 Inch Snow, RC-7W

Radio Equipment Testing

Standards	
Specification	Method
FCC 15.247:2020	ANSI C63.10:2013, KDB 558074

Results

Method Clause	Test Description	Applied	Results	Comments
6.2	Powerline Conducted Emissions (Transmitter)	No	N/A	Not required for a vehicle powered product
6.5, 6.6	Spurious Radiated Emissions	Yes	Pass	
7.5	Duty Cycle	Yes	N/A	
7.8.2	Carrier Frequency Separation	Yes	Pass	
7.8.3	Number of Hopping Frequencies	Yes	Pass	
7.8.4	Dwell Time	Yes	Pass	
7.8.5	Output Power	Yes	Pass	
7.8.5	Equivalent Isotropic Radiated Power	Yes	Pass	
7.8.6	Band Edge Compliance	Yes	Pass	
7.8.6	Band Edge Compliance - Hopping Mode	Yes	Pass	
7.8.7	Occupied Bandwidth	Yes	Pass	
7.8.8	Spurious Conducted Emissions	Yes	Pass	
11.10.2	Power Spectral Density	No	N/A	Not required for FHSS devices.

Deviations From Test Standards

None

Approved By:

Kyle Holgate, Operations Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing.

REVISION HISTORY



Revision Number		Description	Date (yyyy-mm-dd)	Page Number
00	None			

ACCREDITATIONS AND AUTHORIZATIONS



United States

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Accredited by A2LA to ISO / IEC 17065 as a product certifier. This allows Element to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

Canada

ISED - Recognized by Innovation, Science and Economic Development Canada as a Certification Body (CB) and as a CAB for the acceptance of test data.

European Union

European Commission – Within Element, we have a EU Notified Body validated for the EMCD and RED Directives.

Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

Korea

MSIT / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

Singapore

IDA – Recognized by IDA as a CAB for the acceptance of test data.

Israel

MOC – Recognized by MOC as a CAB for the acceptance of test data.

Hong Kong

OFCA – Recognized by OFCA as a CAB for the acceptance of test data.

Vietnam

MIC – Recognized by MIC as a CAB for the acceptance of test data.

SCOPE

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FACILITIES





Minnesota	Oregon	Texas	Washington		
Labs MN01-10	Labs EV01-12	Labs TX01-09	Labs NC01-05		
9349 W Broadway Ave.	6775 NE Evergreen Pkwy #400	3801 E Plano Pkwy	19201 120" Ave NE		
(612)-638-5136	(503) 844-4066	(469) 304-5255	(425)984-6600		
			(),		
	NVLAP				
NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200630-0	NVLAP Lab Code:201049-0	NVLAP Lab Code: 200629-0		
Innovation, Science and Economic Development Canada					
2834E-1, 2834E-3	2834D-1	2834G-1	2834F-1		
	BSMI				
SL2-IN-E-1152R	SL2-IN-E-1017	SL2-IN-E-1158R	SL2-IN-E-1153R		
VCCI					
A-0109	A-0108	A-0201	A-0110		
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US0175	US0017	US0191	US0157		
	Minnesota Labs MN01-10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136 NVLAP Lab Code: 200881-0 Innovation, Sci 2834E-1, 2834E-3 SL2-IN-E-1152R A-0109 Cognized Phase I CAB for IS	Minnesota Oregon Labs MN01-10 Jabs EV01-12 9349 W Broadway Ave. 6775 NE Evergreen Pkwy #400 Brooklyn Park, MN 55445 6775 NE Evergreen Pkwy #400 (612)-638-5136 NVLAP NVLAP Lab Code: 200881-0 NVLAP Lab Code: 200630-0 Innovation, Science and Economic Develop 2834E-1, 2834E-3 2834D-1 SL2-IN-E-1152R SL2-IN-E-1017 VCCI A-0109 A-0109 A-0108 cognized Phase I CAB for ISED, ACMA, BSMI, IDA, KCC/ US0175 US0017	Minnesota Labs MN01-10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136Oregon Labs EV01-12 6775 NE Evergreen Pkwy #400 Hillsboro, OR 97124 (503) 844-4066Texas Labs TX01-09 3801 E Plano Pkwy Plano, TX 75074 (469) 304-5255NVLAP NVLAP Lab Code: 200881-0NVLAP Lab Code: 200630-0NVLAP Lab Code: 201049-0Innovation, Science and Economic Development Canada 2834E-1, 2834E-32834D-12834G-1SL2-IN-E-1152RSL2-IN-E-1017SL2-IN-E-1158RVCCIVCCIA-0109A-0108A-0201Cognized Phase I CAB for ISED, ACMA, BSMI, IDA, KCC/RRA, MIC, MOC, NCC, OF US0175US0017US0191		



MEASUREMENT UNCERTAINTY



Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

A measurement uncertainty estimation has been performed for each test per our internal quality document QM205.4.6. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) can be found included as part of the applicable test description page. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable), and are available upon request.

The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Test	+ MU	- MU
Frequency Accuracy	0.0007%	-0.0007%
Amplitude Accuracy (dB)	1.2 dB	-1.2 dB
Conducted Power (dB)	1.2 dB	-1.2 dB
Radiated Power via Substitution (dB)	0.7 dB	-0.7 dB
Temperature (degrees C)	0.7°C	-0.7°C
Humidity (% RH)	2.5% RH	-2.5% RH
Voltage (AC)	1.0%	-1.0%
Voltage (DC)	0.7%	-0.7%
Field Strength (dB)	5.2 dB	-5.2 dB
AC Powerline Conducted Emissions (dB)	2.6 dB	-2.6 dB

Test Setup Block Diagrams





PRODUCT DESCRIPTION



Company Name:	Polaris Industries, Inc.
Address:	7290 E. Viking Blvd.
City, State, Zip:	Wyoming, MN 55092
Test Requested By:	Travis Chambers
EUT:	7 Inch Snow, RC-7W
First Date of Test:	April 20, 2020
Last Date of Test:	April 29, 2020
Receipt Date of Samples:	April 14, 2020
Equipment Design Stage:	Production
Equipment Condition:	No Damage
Purchase Authorization:	Verified

Client and Equipment Under Test (EUT) Information

Information Provided by the Party Requesting the Test

Functional Description of the EUT:

The Polaris RC-7W display and navigation unit is mounted on the dash of snowmobiles. The display runs the Linux operating system using an NXP iMX6 guad-core microprocessor. It is equipped with a high-brightness 800x480 pixel LCD display and is powered from the vehicle's electrical system. Vehicle information is acquired and displayed on the display. Connection to the vehicle's CAN bus and various analog sensors provide the vehicle information. The display contains the Texas Instruments (TI) CC2564MODNCMOER certified Bluetooth module and the TI WL1837MODGIMOCR certified Bluetooth/WiFi module. These radios are used to communicate to the user's phone or headset and to connect to cloud-based services. Both Bluetooth transceivers can operate in Classic and LE modes of operation. The WiFi band use only the 2.4GHz band. The display contains a Polaris proprietary Vehicle-to-Vehicle radio. This communicates vehicle position and status messages among a ride group of similarly equipped vehicles. The radio is a 915MHz band frequencyhopping spreadspectrum design. The power level and frequency hop sequence is programmable to comply with the political locale. For example, in the United States, channels between 902.5MHz and 927.5 are used at a power level of 30dBi. In the EU market, the function is not activated. The transceiver is comprised of a Semtech SX1276 with LNA/PA provided by the Skyworks SE2435L. The modulation scheme is LoRa digital modulation. Max data rate is 125kHz and maximum transmit time is 400mS. The vehicle-to-vehicle transceiver uses external mounted antenna (Laird DS-B806896). The device will also contain a GPS receiver. A GNSS receiver based on the Telit SE868-V3 module is used for navigational and time-keeping functions. The antenna for this function is external to the display. The display will be powered by the vehicles rechargeable battery and the radios can transmit while the battery is recharging.

Testing Objective:

Seeking to demonstrate compliance under FCC 15.247:2020 for operation in the 902 - 928 MHz Band.





Configuration POLR0070-3

EUT					
Description	Manufacturer	Model/Part Number	Serial Number		
Vehicle Display	Polaris Industries, Inc.	RC-7W	20093F0001		

Peripherals in test setup boundary					
Description	Manufacturer	Model/Part Number	Serial Number		
DC Power Supply	Dr. Meter	PS-305DM	190204661		
V2V Antenna	Laird	Unknown	Unknown		
GPS Antenna	Polaris Industries, Inc.	Unknown	Unknown		

Remote Equipment Outside of Test Setup Boundary				
Description Manufacturer Model/Part Number Serial Number				
Laptop	Dell	Precision 7530	35569950878	

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Ethernet	No	5.0 m	No	Ethernet to USB	Laptop
Ethernet to USB	Yes	0.3 m	No	Vehicle Display	Ethernet
AC Power	No	1.8 m	No	AC Mains	DC Power Supply
V2V Antenna Cable	Yes	4.0 m	No	Vehicle Display	V2V Antenna
GPS Antenna Cable	Yes	0.4 m	No	Vehicle Display	GPS Antenna
DC Power Leads	No	1.5 m	No	Vehicle Display	DC Power Supply





Configuration POLR0070-6

EUT					
Description	Manufacturer	Model/Part Number	Serial Number		
Vehicle Display	Polaris Industries, Inc.	RC-7W	20093F0005		

Peripherals in test setup boundary				
Description	Manufacturer	Model/Part Number	Serial Number	
Laptop	Dell	Precision 7530	35569950878	

Remote Equipment Outside of Test Setup Boundary								
Description	Manufacturer	Model/Part Number	ber Serial Number					
Switching Power Supply	LINKSYS	AD12V/0.5A-SW	ENG-07-09-F2291					
Wireless G Broadband Router	LINKSYS	WRT546	CDFG1GC83032					

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Power Cable (router)	No	1.8 m	No	Switching Power Supply	Wireless G Broadband Router
DC Power Cable (Vehicle Display)	No	0.8 m	No	DC Power Leads	Vehicle Display
DC Power Leads	No	0.7 m	No	DC Power Cable (Vehicle Display)	DC Supply
Ethernet	No	1.0 m	No	Laptop	Gigabit Ethernet Adapter
Ethernet to USB	No	0.3 m	No	Vehicle Display	Ethernet





Configuration POLR0070-8

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Vehicle Display	Polaris	RC-7W	20093F0005

Peripherals in test setup boundary						
Description	Manufacturer	Model/Part Number	Serial Number			
Laptop	Dell	Precision 7530	35569950878			

Cables											
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2						
DC Power Cable (Vehicle Display)	No	0.8 m	No	DC Power Leads	Vehicle Display						
DC Power Leads	No	0.7 m	No	DC Power Cable (Vehicle Display)	DC Supply						
Ethernet	No	1.0 m	No	Laptop	Gigabit Ethernet Adapter						
Ethernet to USB	No	0.3 m	No	Vehicle Display	Ethernet						

MODIFICATIONS



Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	2020-04-20	Spurious Radiated Emissions	Tested as delivered to Test Station	No EMI suppression devices were added or modified during this test	EUT remained at Element following the test
2	2020-04-28	Band Edge Compliance	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
3	2020-04-29	Duty Cycle	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
4	2020-04-29	Carrier Frequency Separation	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
5	2020-04-29	Number of Hopping Frequencies	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
6	2020-04-29	Dwell Time	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
7	2020-04-29	Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
8	2020-04-29	Equivalent Isotropic Radiated Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
9	2020-04-29	Band Edge Compliance - Hopping Mode	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
10	2020-04-29	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
11	2020-04-29	Spurious Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

SPURIOUS RADIATED EMISSIONS



1 0/1 2001 202010 110

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

Continuous transmit LoRa, modulated, low channel 902.4 MHz, mid channel, 915.4 MHz, high channel 927.6 MHz.

POWER SETTINGS INVESTIGATED

12VDC

CONFIGURATIONS INVESTIGATED

POLR0070 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency 30 MHz

Stop Frequency 12400 MHz

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Filter - High Pass	Micro-Tronics	HPM50108	HFV	2019-11-18	12 mo
Filter - Low Pass	Micro-Tronics	LPM50003	LFB	2020-02-15	12 mo
Filter - Low Pass	Micro-Tronics	LPM50004	LFD	2020-02-15	12 mo
Attenuator	Coaxicom	3910-10	AWX	2020-02-15	12 mo
Attenuator	Coaxicom	3910-20	AXZ	2020-02-15	12 mo
Cable	None	Standard Gain Horns Cable	EVF	2019-11-19	12 mo
Cable	N/A	Double Ridge Horn Cables	EVB	2019-11-18	12 mo
Cable	N/A	Bilog Cables	EVA	2019-11-18	12 mo
Amplifier - Pre-Amplifier	L-3 Narda-MITEQ	AMF-6F-08001200-30-10P	PAO	2019-11-19	12 mo
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	PAG	2019-11-18	12 mo
Amplifier - Pre-Amplifier	Miteq	AM-1616-1000	AOL	2019-11-18	12 mo
Antenna - Standard Gain	ETS Lindgren	3160-07	AHU	NCR	0 mo
Antenna - Double Ridge	EMCO	3115	AHC	2018-07-02	24 mo
Antenna - Biconilog	Teseq	CBL 6141B	AXR	2018-10-02	24 mo
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFI	2019-12-13	12 mo

MEASUREMENT BANDWIDTHS

Frequency Range Peak Data		Quasi-Peak Data	Average Data
(MHz)	(kHz)	(kHz)	(kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

TEST DESCRIPTION

The highest gain antenna of each type to be used with the EUT was tested. The EUT was configured for the required transmit frequencies and the modes as showed in the data sheets.

For each configuration, the spectrum was scanned throughout the specified range as part of the exploratory investigation of the emissions. These "pre-scans" are not included in the report. Final measurements on individual emissions were then made and included in this test report.

The individual emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis if required, and adjusting the measurement antenna height and polarization (per ANSI C63.10). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector PK = Peak Detector AV = RMS Detector

Measurements were made to satisfy the specific requirements of the test specification for out of band emissions as well as the restricted band requirements.

If there are no detectable emissions above the noise floor, the data included may show noise floor measurements for reference only.

Measurements at the edges of the allowable band may be presented in an alternative method as provided for in the ANSI C63.10 Marker-Delta method. This method involves performing an in-band fundamental measurement followed by a screen capture of the fundamental and out-of-band emission using reduced measurement instrumentation bandwidths. The amplitude delta measured on this screen capture is applied to the fundamental emission value to show the out-of-band emission level as applied to the limit.

SPURIOUS RADIATED EMISSIONS



	_		•	EmiR5 2019.08.15.1	PSA-ESCI 2
POLR0070	Date:	2020-04-20	· /	al	
None	Temperature:	23.6 °C	Cin	100	1
EV01	Humidity:	38.2% RH		10	
20093F0001	Barometric Pres.:	1022 mbar	Tested	by: Cole Ghizzone	
7 Inch Snow, RC-7W					
3					
Polaris Industries, Inc.					
None					
12VDC					
Continuous transmit L	oRa, modulated, low cha	nnel 902.4 MHz, m	id channel, 915.4 M	Hz, high channel 92	27.6 MHz.
None					
See data comments for 10*log(1/DC) = 10*log	or EUT orientation. The f g(1/0.951) = 0.22 dB was	EUT transmits at a added to the AVG	duty cycle of 95.1%. measurements.	A duty cycle corre	ction factor
		Test Met	hod		
		ANSI C63	3.10:2013		
Test Distance (m)	3 Antenna H	eight(s)	1 to 4(m)	Results	Pass
			5		
			*		
		•	*		
		•	•		
	POLR0070 None EV01 20093F0001 7 Inch Snow, RC-7W 3 Polaris Industries, Inc None 12VDC Continuous transmit L None See data comments f 10*log(1/DC) = 10*log	POLR0070 Date: None Temperature: EV01 Humidity: 20093F0001 Barometric Pres.: 7 Inch Snow, RC-7W 3 Polaris Industries, Inc. None 12VDC Continuous transmit LoRa, modulated, low chat None See data comments for EUT orientation. The for 10*log(1/DC) = 10*log(1/0.951) = 0.22 dB was Test Distance (m) 3 Antenna H	POLR0070 Date: 2020-04-20 None Temperature: 23.6 °C EV01 Humidity: 38.2% RH 20093F0001 Barometric Pres.: 1022 mbar 7 Inch Snow, RC-7W 3 Polaris Industries, Inc. None Inch Snow, RC-7W 3 Polaris Industries, Inc. None None 12VDC Continuous transmit LoRa, modulated, Iow channel 902.4 MHz, m None See data comments for EUT orientation. The EUT transmits at a 10*log(1/DC) = 10*log(1/0.951) = 0.22 dB was added to the AVG Image: Test Distance (m) 3 Antenna Height(s) Image: Test Distance (m) 3 Antenna Height(s) Image: Test Distance (m) 3 Antenna Height(s)	POLR0070 Date: 2020-04-20 None Temperature: 23.6 °C EV01 Humidity: 38.2% RH 20093F0001 Barometric Pres.: 1022 mbar 7 Inch Snow, RC-7W 3 3 Polaris Industries, Inc. None 122 mbar 12VDC Continuous transmit LoRa, modulated, low channel 902.4 MHz, mid channel, 915.4 M None See data comments for EUT orientation. The EUT transmits at a duty cycle of 95.1%. 10*log(1/DC) = 10*log(1/0.951) = 0.22 dB was added to the AVG measurements. Io*log(1/DC) = 10*log(1/0.951) = 0.22 dB was added to the AVG measurements. Test Method ANSI C63.10:2013	POLR0070 Date: 2020-04-20 None Temperature: 23.6 °C Image: Cole Chizzone EV01 Humidity: 38.2% RH Image: Cole Chizzone 20093F0001 Barometric Pres.: 1022 mbar Tested by: Cole Chizzone 7 Inch Snow, RC-7W 3 Polaris Industries, Inc. None None Continuous transmit LoRa, modulated, low channel 902.4 MHz, mid channel, 915.4 MHz, high channel 92 None See data comments for EUT orientation. The EUT transmits at a duty cycle of 95.1%. A duty cycle correr 10°log(1/DC) = 10°log(1/0.951) = 0.22 dB was added to the AVG measurements. Image: Test Distance (m) 3 Antenna Height(s) 1 to 4(m) Results Image: Test Distance (m) 3 Antenna Height(s) 1 to 4(m) Image: Test Distance (m) Image: Test Distance (m) 3 Antenna Height(s) 1 to 4(m) Image: Test Distance (m) 1 to 4(m) Image: Test Distanc

• QP PK AV Duty Cycle Correction Factor Polarity/ Transduce Type Antenna Height External Attenuatior Distance Adjustmen Compared to Spec. Freq Amplitude Azimuth Spec. Limit Factor Detector Adjusted (MHz) (dBuV) (dB) (meters) (degrees) (dB) (dB) (dB) (dBuV/m) (dBuV/m) (dB) Comments 4512.000 43.0 5.0 2.2 141.0 0.2 0.0 Vert AV 0.0 48.2 54.0 -5.8 Low channel, EUT Vertical 4511.992 42.9 5.0 2.5 136.0 0.2 0.0 Horz AV 0.0 48.1 54.0 -5.9 Low channel EUT Vertical 1.8 2.5 0.2 0.2 AV AV Low channel. EUT Vertical 4512.008 42.5 5.0 185.0 0.0 Horz 0.0 47.7 54.0 -6.3 54.0 -7.9 4512.025 40.9 5.0 139.0 0.0 Horz 0.0 46.1 Low channel, EUT Horizontal 2782.858 48.0 -2.2 1.0 93.0 0.2 0.0 Horz AV 0.0 46.0 54.0 -8.0 High channel, EUT Vertical 0.2 0.2 AV AV 4512.025 40.3 5.0 1.5 248.0 0.0 Vert 0.0 45.5 54.0 -8.5 Low channel, EUT On Side 249.0 2707.250 Low channel, EUT Vertical 47.9 45.5 54.0 -2.6 1.1 0.0 Vert 0.0 -8.5 2707.217 47.7 -2.6 1.1 274.0 0.2 0.0 Horz AV 0.0 45.3 54.0 -8.7 Low channel, EUT Vertical 2746.200 47.5 -2.4 1.1 86.0 0.2 0.0 Horz AV 0.0 45.3 54.0 -8.7 Mid channel, EUT Vertical 0.2 0.2 AV AV Low channel, EUT Horizontal 4512.025 39.8 5.0 3.9 0.0 0.0 Vert 0.0 45.0 54.0 -9.0 2782.850 46.3 -2.2 237.0 High channel, EUT Vertical 1.5 Vert 0.0 44.3 54.0 -9.7 0.0 2746.275 46.1 -2.4 1.3 239.0 0.2 0.0 Vert AV 0.0 43.9 54.0 -10.1 Mid channel, EUT Vertical 3710.408 36.7 3.9 3.0 163.0 0.2 0.0 Vert AV 0.0 40.8 54.0 -13.2 High channel, EUT Vertical 4576.975 34.9 Mid channel, EUT Vertical 5.0 2.3 143.0 0.2 0.0 Horz AV 0.0 40.1 54.0 -13.9 4576.942 Mid channel, EUT Vertical 33.6 5.0 1.2 174.0 0.2 0.0 Vert AV 0.0 38.8 54.0 -15.2 3661.608 33.7 3.6 3.3 165.0 0.2 0.0 Vert AV 0.0 37.5 54.0 -16.5 Mid channel, EUT Vertical High channel, EUT Vertical 4638.000 31.9 5.0 2.4 235.0 0.2 0.0 Horz AV 0.0 37.1 54.0 -16.9 Low channel, EUT Vertical 81.0 3609.608 33.4 3.2 1.8 0.2 0.0 Horz AV 0.0 36.8 54.0 -17.2 32.3 3.9 2.0 0.2 54.0 -17.6 High channel, EUT Vertical 3710.408 10.0 0.0 Horz AV 0.0 36.4 3609.575 32.6 3.2 1.6 213.0 0.2 0.0 Vert AV 0.0 36.0 54.0 -18.0 Low channel, EUT Vertical High channel, EUT Vertical 4637 992 30.8 50 1.5 180.0 02 0.0 Vert AV 0.0 36.0 54.0 -18.0 1.5 -19.7 Mid channel, EUT Vertical 3661.642 30.5 0.2 AV 34.3 54.0 3.6 13.0 Horz 0.0 0.0

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (dB)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
4512.200	47.7	5.0	2.5	136.0	0.0	0.0	Horz	PK	0.0	52.7	74.0	-21.3	Low channel, EUT Vertical
4512.317	47.6	5.0	2.2	141.0	0.0	0.0	Vert	PK	0.0	52.6	74.0	-21.4	Low channel, EUT Vertical
4511.783	47.2	5.0	1.8	185.0	0.0	0.0	Horz	PK	0.0	52.2	74.0	-21.8	Low channel, EUT On Side
4512.392	46.8	5.0	2.5	139.0	0.0	0.0	Horz	PK	0.0	51.8	74.0	-22.2	Low channel, EUT Horizontal
4512.067	45.8	5.0	3.9	0.0	0.0	0.0	Vert	PK	0.0	50.8	74.0	-23.2	Low channel, EUT Horizontal
4512.217	45.6	5.0	1.5	248.0	0.0	0.0	Vert	PK	0.0	50.6	74.0	-23.4	Low channel, EUT On Side
4577.200	43.8	5.0	2.3	143.0	0.0	0.0	Horz	PK	0.0	48.8	74.0	-25.2	Mid channel, EUT Vertical
2782.625	51.0	-2.2	1.0	93.0	0.0	0.0	Horz	PK	0.0	48.8	74.0	-25.2	High channel, EUT Vertical
2707.250	51.1	-2.6	1.1	249.0	0.0	0.0	Vert	PK	0.0	48.5	74.0	-25.5	Low channel, EUT Vertical
2746.175	50.9	-2.4	1.1	86.0	0.0	0.0	Horz	PK	0.0	48.5	74.0	-25.5	Mid channel, EUT Vertical
4576.700	43.5	5.0	1.2	174.0	0.0	0.0	Vert	PK	0.0	48.5	74.0	-25.5	Mid channel, EUT Vertical
2707.458	51.0	-2.6	1.1	274.0	0.0	0.0	Horz	PK	0.0	48.4	74.0	-25.6	Low channel, EUT Vertical
3710.458	44.2	3.9	3.0	163.0	0.0	0.0	Vert	PK	0.0	48.1	74.0	-25.9	High channel, EUT Vertical
2782.858	50.1	-2.2	1.5	237.0	0.0	0.0	Vert	PK	0.0	47.9	74.0	-26.1	High channel, EUT Vertical
2746.317	49.7	-2.4	1.3	239.0	0.0	0.0	Vert	PK	0.0	47.3	74.0	-26.7	Mid channel, EUT Vertical
4638.175	41.7	5.0	1.5	180.0	0.0	0.0	Vert	PK	0.0	46.7	74.0	-27.3	High channel, EUT Vertical
3710.225	42.8	3.9	2.0	10.0	0.0	0.0	Horz	PK	0.0	46.7	74.0	-27.3	High channel, EUT Vertical
3661.558	43.0	3.6	3.3	165.0	0.0	0.0	Vert	PK	0.0	46.6	74.0	-27.4	Mid channel, EUT Vertical
4637.917	41.6	5.0	2.4	235.0	0.0	0.0	Horz	PK	0.0	46.6	74.0	-27.4	High channel, EUT Vertical
3609.758	42.5	3.2	1.8	81.0	0.0	0.0	Horz	PK	0.0	45.7	74.0	-28.3	Low channel, EUT Vertical
3609.692	42.5	3.2	1.6	213.0	0.0	0.0	Vert	PK	0.0	45.7	74.0	-28.3	Low channel, EUT Vertical
3661.800	41.4	3.6	1.5	13.0	0.0	0.0	Horz	PK	0.0	45.0	74.0	-29.0	Mid channel, EUT Vertical



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Description Manufacturer		ID	Last Cal.	Cal. Due
Meter - Multimeter	Tektronix	DMM912	MMH	15-Feb-19	15-Feb-22
Power Supply - DC	MPJA	9950 PS	TQA	NCR	NCR
Generator - Signal	Agilent	N5183A	TID	26-Apr-19	26-Apr-21
Cable	Micro-Coax	UFD150A-1-0720-200200	EVH	13-Mar-20	13-Mar-21
Attenuator	Fairview Microwave	18B5W-26	RFZ	23-Jul-19	23-Jul-20
Attenuator	S.M. Electronics	SA26B-20	AUY	13-Mar-20	13-Mar-21
Block - DC	Fairview Microwave	SD3379	AMW	13-Mar-20	13-Mar-21
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	28-Feb-20	28-Feb-21

TEST DESCRIPTION

The Duty Cycle (x) of the single channel operation of the radio as controlled by the provided test software was measured for each of the EUT operating modes.

There is no compliance requirement to be met by this test, so therefore no Pass / Fail criteria.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum.

The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

If the transmit duty cycle < 98 percent, burst gating may have been used during some of the other tests in this report to only take the measurement during the burst duration.



								TbtTx 2019.08.30.0	XMit 2020.03.25.0
EUT	7 Inch Snow, RC-7W			Work Order:	POLR0070				
Serial Number	: 20093F0005			Date:	29-Apr-20				
Customer	Polaris Industries, Inc.			Temperature:	21.9 °C				
Attendees	None						Humidity:	45.9% RH	
Project	: None						Barometric Pres.:	1017 mbar	
Tested by	Jeff Alcoke and Kam Rob	pertson	Power:	14 VDC			Job Site:	EV06	
TEST SPECIFICAT	IONS			Test Method					
FCC 15.247:2020				ANSI C63.10:2013					
COMMENTS									
Reference level of	fset includes: DC Block, 46	dB attenuation, and measurement ca	able						
DEVIATIONS FRO	M TEST STANDARD								
None									
Configuration #	8		111						
oonigu alon #	° °	Signature	et o	1/8					
		oignataro				Number of	Value	l imit	
				Pulse Width	Period	Pulses	(%)	(%)	Results
FSK. Single Channe	e						()	()	
,	Low Channel, 902,4 MHz			22.813 ms	23.998 ms	1	95.1	N/A	N/A
	Low Channel, 902,4 MHz			N/A	N/A	5	N/A	N/A	N/A
	Mid Channel, 915.4 MHz			22.817 ms	23.998 ms	1	95.1	N/A	N/A
	Mid Channel, 915.4 MHz			N/A	N/A	5	N/A	N/A	N/A
	High Channel, 927.6 MHz			22.821 ms	24.005 ms	1	95.1	N/A	N/A
	High Channel, 927.6 MHz			N/A	N/A	5	N/A	N/A	N/A





		FSK, Single Ch	annel, Low Char	nel, 902.4 MHz		
			Number of	Value	Limit	
	Pulse Width	Period	Pulses	(%)	(%)	Results
	N/A	N/A	5	N/A	N/A	N/A







		FSK, Single Cl	nannel, Mid Chan	nel, 915.4 MHz		
			Number of	Value	Limit	
	Pulse Width	Period	Pulses	(%)	(%)	Results
	N/A	N/A	5	N/A	N/A	N/A







		FSK, Single Ch	annel, High Char	nnel, 927.6 MHz		
			Number of	Value	Limit	
	Pulse Width	Period	Pulses	(%)	(%)	Results
	N/A	N/A	5	N/A	N/A	N/A



CARRIER FREQUENCY SEPARATION



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Power Supply - DC	MPJA	9950 PS	TQA	NCR	NCR
Meter - Multimeter	Tektronix	DMM912	MMH	15-Feb-19	15-Feb-22
Generator - Signal	Agilent	N5183A	TID	26-Apr-19	26-Apr-21
Cable	Micro-Coax	UFD150A-1-0720-200200	EVH	13-Mar-20	13-Mar-21
Attenuator	Fairview Microwave	18B5W-26	RFZ	23-Jul-19	23-Jul-20
Attenuator	S.M. Electronics	SA26B-20	AUY	13-Mar-20	13-Mar-21
Block - DC	Fairview Microwave	SD3379	AMW	13-Mar-20	13-Mar-21
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	28-Feb-20	28-Feb-21

TEST DESCRIPTION

The channel carrier frequencies in the 902-928 MHz band must be separated by 25 kHz or the 20dB bandwidth of the hopping channel, whichever is greater. The EUT was operated in pseudorandom hopping mode. The spectrum was scanned across two adjacent peaks. The separation between the peaks of these channels was measured.

CARRIER FREQUENCY SEPARATION



Mid Channel, 915.4 MHz

0.2 MHz

Pass

element

CARRIER FREQUENCY SEPARATION





NUMBER OF HOPPING FREQUENCIES



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Agilent	N5183A	TID	26-Apr-19	26-Apr-21
Power Supply - DC	MPJA	9950 PS	TQA	NCR	NCR
Meter - Multimeter	Tektronix	DMM912	MMH	15-Feb-19	15-Feb-22
Attenuator	Fairview Microwave	18B5W-26	RFZ	23-Jul-19	23-Jul-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVH	13-Mar-20	13-Mar-21
Attenuator	S.M. Electronics	SA26B-20	AUY	13-Mar-20	13-Mar-21
Block - DC	Fairview Microwave	SD3379	AMW	13-Mar-20	13-Mar-21
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	28-Feb-20	28-Feb-21

TEST DESCRIPTION

The number of hopping frequencies was measured across the authorized band. The hopping function of the EUT was enabled.

NUMBER OF HOPPING FREQUENCIES



			TbtTx 2019.08.30.0	XMit 2020.03.25.0
EUT: 7 Inch Snow, RC-7W		Work Order:	POLR0070	
Serial Number: 20093F0005		Date:	29-Apr-20	
Customer: Polaris Industries, Inc.		Temperature:	21.9 °C	
Attendees: None		Humidity:	45.9% RH	
Project: None		Barometric Pres.:	1016 mbar	
Tested by: Jeff Alcoke and Kam Robertson	Power: 14 VDC	Job Site:	EV06	
TEST SPECIFICATIONS	Test Method			
FCC 15.247:2020	ANSI C63.10:2013			
COMMENTS				
Reference level offset includes: DC Block, 46 dB attenuation, and measurement c	able.			
DEVIATIONS FROM TEST STANDARD				
None				
Configuration # 8 Signature	Tof the			
		Number of	Limit	
		Channels	(≥)	Results
FSK, Hopping Mode				
Mid Channel, 915.4 MHz		126	50	Pass

Report No. POLR0070.4

NUMBER OF HOPPING FREQUENCIES



			FO		Mada Mid C	Shannal 04/				
			5	r, nopping	would, wild C	Nur	nber of	Limit		
						Cha	annels	(≥)	Res	ults
Г							126	50	Pa	ISS
——————————————————————————————————————	Agilent 09:3	22 : 26 Apr	28, 20	20				RT		
Flemer	⊸ nt Material	s Technolo	av							
Ref 3ª	dBm			ten 10 di	R					
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dB										
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#LgAv										
	IJ									
M1 S2	-									
S3 FC										
$\mathbf{E}(\mathbf{f})$:										
Flun										
Swp										
Start	902.000 M	Hz							Stop 928	3.000 MHz
#R <u>es</u> E	3W 100 kH	z		+	•VBW 30 k	Hz		Sweep 7.1	98 ms <u>(3</u>	000 pts)



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Attenuator	S.M. Electronics	SA26B-20	AUY	13-Mar-20	13-Mar-21
Block - DC	Fairview Microwave	SD3379	AMW	13-Mar-20	13-Mar-21
Attenuator	Fairview Microwave	18B5W-26	RFZ	23-Jul-19	23-Jul-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVH	13-Mar-20	13-Mar-21
Power Supply - DC	MPJA	9950 PS	TQA	NCR	NCR
Generator - Signal	Agilent	N5183A	TID	26-Apr-19	26-Apr-21
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	28-Feb-20	28-Feb-21

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The average dwell time per hopping channel was measured at one hopping channel in the middle of the authorized band. The hopping function of the EUT was enabled.

The average dwell time of any frequency shall not be greater than 0.4 seconds within a 20 second period.



									XMit 2020.03.25.0
EUT:	7 Inch Snow, RC-7W						Work Order:	POLR0070	
Serial Number:	20093F0005						Date:	28-Apr-20	
Customer:	Polaris Industries, Inc.						Temperature:	22.4 °C	
Attendees:	None						Humidity:	41.5% RH	
Project:	None					l	Barometric Pres.:	1026 mbar	
Tested by:	Jeff Alcoke and Kam Rol	bertson	Power:	: 14 VDC			Job Site:	EV06	
TEST SPECIFICATI	IONS			Test Method					
FCC 15.247:2020				ANSI C63.10:2013					
COMMENTS									
Reference level off	set includes: DC Block, 4	46 dB attenuation, and measu	irement cable						
	A TEOT OT AND ADD								
DEVIATIONS FROM	I IESI SIANDARD								
None				1					
Configuration #	8		1 //	11					
Configuration #	Ů	Signature	Vett	1/8					
		olghatare	Duration	Count	Count	Dwell time (ms)	Ava Dwell	Limit	
			(ms)	Pulse 1	Pulse 2	20 sec period	Time (ms)	(ms)	Result
FSK. Hopping								X -7	
- / 11 5	Mid Channel, 915.4 MHz								
	Pulse 1		22.67	-	-			-	-
	Pulse 2		380.90	-	-		-	-	-
	20 sec Durat	tion 1	-	3.00	1.00	448.91	-	-	-
	20 sec Durat	tion 2	-	6.00	1.00	516.92		-	-
	20 sec Durat	tion 3	-	6.00	0.00	136.02		-	-
	20 sec Durat	tion 4	-	6.00	0.00	136.02		-	-
	20 sec Durat	tion 5	-	6.00	0.00	136.02	-	-	-
	20 sec Durat	tion 6	-	3.00	1.00	448.91	-	-	-
	20 sec Durat	tion 7	-	3.00	1.00	448.91	-	-	-
	20 sec Durat	tion 8	-	9.00	0.00	204.03	-	-	-
	20 sec Durat	tion 9	-	6.00	0.00	136.02	-	-	-
	20 sec Durat	tion 10	-	6.00	0.00	136.02	-	-	-
	20 sec Durat	tion 11	-	6.00	0.00	136.02	-	-	-
	20 sec Durat	tion 12	-	3.00	1.00	448.91	-	-	-
	20 sec Durat	tion 13	-	3.00	1.00	448.91	-	-	-
	20 sec Durat	tion 14	-	6.00	0.00	136.02	-	-	-
	20 sec Durat	tion 15	-	6.00	0.00	136.02	-	-	-
	20 sec Durat	tion 16	-	9.00	0.00	204.03	-	-	-
	20 sec Durat		-	3.00	0.00	68.01	-	-	-
	20 sec Durat		-	9.00	0.00	204.03	-	-	-
	20 sec Durat	lion 19	-	9.00	0.00	204.03	-	-	-
	20 sec Durat	1011 20	-	0.00	0.00	130.02	-	- 400	- Boss
	Calculation		-	-	-	-	243.49	≥ 400	Pass





Res BW 100 kHz

#VBW 100 kHz

Sweep 400.3 ms (8192 pts)



		FSł	K, Hopping, Mid	Channel, 915.4 N	Hz, 20 sec Du	ration 1			
	Duration	Count	Count	Dwell time (ms	Avg Dwel	I	Limit		
	(ms)	Pulse 1	Pulse 2	20 sec period	Time (ms)	(ms)	Re	sult
	-	3	1	448.91	-		-		-
Siz -		22.EE 0	1010			Б	т		
(林)	Agrient 1313	33:55 Hpr 28	, 2020			ĸ	1		
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	ы тий кнэ			#VBW 100 kH:	,		Sweet	n 20 s (8	3192 nts
	W 100 KHZ			#VBW 100 kHz	2		Sweep	o 20 s (8	3192 pts;
	N 100 KHZ	FSł	K, Hopping, Mid	#VBW 100 kHz Channel, 915.4 M	Hz, 20 sec Du	ration 2	Sweet	o 20 s (8	3192 pts
	Duration (ms)	FSF Count Pulse 1	K, Hopping, Mid Count Pulse 2	#VBW 100 kHa Channel, 915.4 M Dwell time (ms 20 sec period	Hz, 20 sec Du Avg Dwel Time (ms	ration 2 I	Swee; Limit (ms)	0 20 s (8 Re	3192 pts
	Duration (ms)	FSI Count Pulse 1 6	K, Hopping, Mid Count Pulse 2 1	#VBW 100 kH Channel, 915.4 M Dwell time (ms 20 sec period 516.92	Hz, 20 sec Du Avg Dwel Time (ms	iration 2 I	Sweer Limit (ms)	20 S (8 Re	sult
	Duration (ms)	FSF Count Pulse 1 6	K, Hopping, Mid Count Pulse 2 1	#VBW 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92	Hz, 20 sec Du Avg Dwel Time (ms	Iration 2 I	Sweer	0 20 s (8 Re	3192 pts sult
*	Duration (ms) 	FSH Count Pulse 1 6 40:09 Apr 28	K, Hopping, Mid Count Pulse 2 1 , 2020	#VBW 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92	Hz, 20 sec Du Avg Dwel Time (ms	ration 2 I) R	Sweep Limit (ms) - T	20 s (8 	sult
¥ / Elemen	Duration (ms) - Agilent 13:4	FSF Count Pulse 1 6 40:09 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 1 , 2020	#VBW 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92	Hz, 20 sec Du Avg Dwel Time (ms	ration 2 I) R	Sweep Limit (ms) - T	0 20 s (8 	sult
Elemen Ref	Duration (ms) Agilent 13:4 nt Material	FSH Count Pulse 1 6 40:09 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 1 , 2020 #Atten 48 d	#VBW 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92	Hz, 20 sec Du Avg Dwel Time (ms	R	Swee; Limit (ms) T	0 20 s (8	sult
∰r Elemen Ref –: #Peak	A 100 KHZ Duration (ms) - Agilent 13:4 Agilent 13:4 Naterial 10 dBm	FSH Count Puise 1 6 40:09 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 1 , 2020 #Atten 48 d	#VBW 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92	Hz, 20 sec Du Avg Dwel Time (ms	R	Sweep Limit (ms) - T	0 20 s (8	sult
∰ / Elemer Ref -: #Peak Log 2	Agilent 13:4	FSH Count Puise 1 6 40:09 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 1 , 2020 #Atten 48 d	#VBW 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92	Hz, 20 sec Du Avg Dwel Time (ms	R	Sweep Limit (ms) - T	0 20 s (8	sult -
∰ Peak Log 2 dB/	Agilent 13:4	FSH Count Puise 1 6 40:09 Apr 28 s Technology	<, Hopping, Mid Count Pulse 2 1 , 2020 #Atten 48 o	#VBW 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92	Hz, 20 sec Du Avg Dwel Time (ms	R	Swee; Limit (ms) - T	0 20 s (8	sult -
∰ Peak Log 2 dB/	Agilent 13:4	FSH Count Pulse 1 6 40:09 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 1 ; 2020 #Atten 48 d K, 2020	#VBW 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92	Hz, 20 sec Du Avg Dwel Time (ms	R	Swee; Limit (ms) T	0 20 s (8	sult -
∰ J Elemen Ref → #Peak Log 2 dB/	A 100 KHZ (ms) - Agilent 13:4 nt Material 10 dBm	FSH Count Pulse 1 6 40:09 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 1 ; 2020 #Atten 48 d K, 2020	#VBW 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92	Hz, 20 sec Du Avg Dwel Time (ms	R	Swee; Limit (ms) T	0 20 s (8	sult -
∰ J Elemen Ref – #Peak Log 2 dB/	Agilent 13:4	FSH Count Pulse 1 6 40:09 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 1 , 2020 #Atten 48 d #Atten 48 d	#VBW 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92 3B	Hz, 20 sec Du Avg Dwel Time (ms	R	Swee; Limit (ms) T	0 20 s (8	sult -
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Elemen Ref - #Peak Log 2 dB/	Agilent 13:4	FSF Count Pulse 1 6 40:09 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 1 , 2020 #Atten 48 d Atten 48 d	#VBW 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92	Hz, 20 sec Du Avg Dwel Time (ms	R	Swee; Limit (ms) T	0 20 s (8	sult -
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Elemen Ref - #Peak Log 2 dB/ LgAv W1 S2 S3 V3	Agilent 13:4 Agilent 13:4 It Material It Material	FSF Count Pulse 1 6 40:09 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 1 , 2020 #Atten 48 d Atten 48 d A	#VBW 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92	Hz, 20 sec Du Avg Dwel Time (ms	R	Swee; Limit (ms) - T	0 20 s (8	sult -
Elemen Ref - #Peak Log 2 dB/ LgAv W1 S2 S3 V3	Agilent 13:4 Agilent 13:4 It Material	FSF Count Pulse 1 6 40:09 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 1 , 2020 #Atten 48 d Atten 48 d A	#VBW 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92	Hz, 20 sec Du Avg Dwel Time (ms	R	Swee; Limit (ms) - T	0 20 s (8	sult -
Elemen Ref - #Peak Log 2 dB/ LgAv W1 S2 S3 VS £(f):	Agilent 13:4	FSF Count Pulse 1 6 40:09 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 1 , 2020 #Atten 48 d Atten 48 d A	#VBW 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92	Hz, 20 sec Du Avg Dwel Time (ms	R	Swee; Limit (ms) - T	0 20 s (8	sult
¥ Elemen Ref - #Peak Log 2 dB/ UgAv ₩1 \$2 \$3 V\$ \$3 V\$ \$53 V\$	Agilent 13:4	FSF Count Pulse 1 6 40:09 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 1 , 2020 #Atten 48 d Atten 48 d A	#VBW 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92	Hz, 20 sec Du Avg Dwel Time (ms -	R	Swee; Limit (ms) T	0 20 s (8	sult -
₩ Elemen Ref - #Peak Log 2 dB/ KgAv W1 S2 S3 V3 £(f): f>50k	Agilent 13:4	FSF Count Pulse 1 6 40:09 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 1 4, 2020 #Atten 48 d 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	#VBW 100 KH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92	Hz, 20 sec Du Avg Dwel Time (ms -	R	Swee; Limit (ms) T	0 20 s (8	sult -
Elemen Ref - #Peak Log 2 dB/ kf S3 VS £(f): f>50k	Agilent 13:4	FSH Count Pulse 1 6 40:09 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 1 4, 2020 #Atten 48 d 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	#VBW 100 KH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92	Hz, 20 sec Du Avg Dwel Time (ms -	R	Swee; Limit (ms) T	0 20 s (8	sult -
Elemen Ref - #Peak Log 2 dB/ kl S2 S3 VS £(f): f>50k	Agilent 13:4	FSk Count Pulse 1 6 40:09 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	#VBW 100 KH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92	Hz, 20 sec Du Avg Dwel Time (ms -	R	Swee; Limit (ms) - T	0 20 s (8	sult
Elemen Ref - #Peak Log 2 dB/ LgAv W1 \$2 \$3 V\$ £(f): f>50k	Agilent 13:4	FSk Count Pulse 1 6 40:09 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	#VBW 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92 B B Channel, 915.4 M Dwell time (ms 20 sec period 10 sec period	Hz, 20 sec Du Avg Dwel Time (ms	R	Swee; Limit (ms) T	0 20 s (8	sult
Element Ref -: #Peak Log 2 dB/ LgAv W1 \$2 \$3 V\$ £(f): f>50k	Agilent 13:4	FSł Count Pulse 1 6 40:09 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	*VBW 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 516.92 B B Channel, 915.4 M Dwell time (ms 20 sec period 10 sec period	Hz, 20 sec Du Avg Dwel Time (ms	R	Swee;		sult



		FSK	K, Hopping, Mid	Channel, 915.4	MHz, 20 s	ec Duration 3	3		
	Duration	Count	Count	Dwell time (m	is) Avg	Dwell	Limit	_	
	(ms)	Pulse 1	Pulse 2	20 sec perio	d Time	e (ms)	(ms)	Resi	ult
	-	0	0	130.02		-	-	-	
sie.	ailant 13·/	10.58 Apr 28	2020			5	> т		
Flomon	t Matorial	ro.30 mpi 20 r Technology	, 2020				`		
Def _1	н natena: Did dRm	s recimology	#0++on 18 /	dB					
#Peak			#HILEII 40 V						
Log									
2									
dB/									
1									
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W1 52									
S3 VS									
£ (f):									
f>50k									
Center	· 915.400	MHz					^	Sp	oan 0 Hz
Res Bl	√100 kHz						~	~~ /~/	
				#VBM 100 KF	lz		Sweep	o 20 s (81	L9Z pts)
		FSK	K. Hopping. Mid	#VBW 100 kH Channel, 915.4	HZ MHz. 20 s	- ec Duration 4	Swee:	o 20 s (81	192 pts)
	Duration	FSk Count	K, Hopping, Mid Count	#VBW 100 kH Channel, 915.4 Dwell time (m	Z MHz, 20 s Is) Avg	ec Duration 4	Swee; Limit	o 20 s (81	192 pts)
	Duration (ms)	FSk Count Pulse 1	K, Hopping, Mid Count Pulse 2	#VBW 100 kH Channel, 915.4 Dwell time (m 20 sec perio	HZ MHz, 20 s Is) Avg d Time	ec Duration 4 Dwell e (ms)	Swee; Limit (ms)	20 s (81	ult
	Duration (ms)	FSk Count Pulse 1 6	K, Hopping, Mid Count Pulse 2 0	#VBW 100 ki Channel, 915.4 Dwell time (m 20 sec perio 136.02	HZ MHz, 20 s Is) Avg d Time	ec Duration 4 Dwell e (ms) -	Sweep Limit (ms)	20 s (81 Resu	ult
	Duration (ms)	FSk Count Pulse 1 6 11-31 Apr. 28	K, Hopping, Mid Count Pulse 2 0	#VBW 100 kt Channel, 915.4 Dwell time (m 20 sec perio 136.02	HZ MHz, 20 s Is) Avg d Time	ec Duration 4 Dwell e (ms) -	Sweep Limit (ms) -	20 s (81	ult
* A Elemer	Duration (ms) - Agilent 13:4	FSk Count Pulse 1 6 11:31 Apr 28	K, Hopping, Mid Count Pulse 2 0 , 2020	#VBM 100 kl Channel, 915.4 Dwell time (m 20 sec perio 136.02	IZ MHz, 20 s Is) Avg d Time	ec Duration 4 Dwell e (ms) -	Sweer Limit (ms)	20 s (81	ult
<mark>⊯</mark> ∦ A Elemer Ref =1	Duration (ms) - Agilent 13:4 It Materials	FSK Count Pulse 1 6 11:31 Apr 28 5 Technology	K, Hopping, Mid Count Pulse 2 0 , 2020 #Atten_48	#VBN 100 kl Channel, 915.4 Dwell time (m 20 sec perio 136.02	IZ MHz, 20 s Is) Avg d Time	ec Duration 4 Dwell e (ms) -	Sweer Limit (ms) -	0 20 s (81	ult
<mark>₩</mark> A Elemer Ref –1 #Peak	Duration (ms) Agilent 13:4 It Materials	FSK Count Pulse 1 6 41:31 Apr 28 5 Technology	K, Hopping, Mid Count Pulse 2 0 , 2020 #Atten 48	#VBN 100 kl Channel, 915.4 Dwell time (m 20 sec perio 136.02	HZ MHz, 20 s s) Avg d Time	ec Duration 4 Dwell e (ms) -	Sweet Limit (ms) - R T	0 20 s (81	ult
<mark>⊯ A</mark> Elemer Ref −1 #Peak Log	Duration (ms) Agilent 13:4 t Materials Ø dBm	FSK Count Pulse 1 6 41:31 Apr 28 5 Technology	K, Hopping, Mid Count Pulse 2 0 , 2020 #Atten 48	#VBN 100 kf Channel, 915.4 Dwell time (m 20 sec perio 136.02	HZ MHz, 20 s s) Avg d Time	ec Duration 4 Dwell e (ms) -	Sweet Limit (ms)	0 20 s (8)	ult
<mark>⊯ A</mark> Elemen Ref −1 #Peak Log 2	Duration (ms) 	FSK Count Pulse 1 6 41:31 Apr 28 5 Technology	K, Hopping, Mid Count Pulse 2 0 , 2020 #Atten 48 d	#VBN 100 ki Channel, 915.4 Dwell time (m 20 sec perio 136.02 dB	z MHz, 20 s s) Avg d Time	ec Duration 4 Dwell e (ms) - F	Sweet Limit (ms)	0 20 s (8)	ult
<mark>∰ A</mark> Elemen Ref −1 #Peak Log 2 dB/	Duration (ms) 	FSK Count Pulse 1 6 41:31 Apr 28 5 Technology	K, Hopping, Mid Count Pulse 2 0 , 2020 #Atten 48 d	#VBN 100 kl Channel, 915.4 Dwell time (m 20 sec perio 136.02	Z MHz, 20 s is) Avg d Time	ec Duration 4 Dwell e (ms) -	Sweep Limit (ms) -	0 20 s (8)	ult
<mark>₩ A</mark> Elemen Ref -1 #Peak Log 2 dB/	Duration (ms) 	FSK Count Pulse 1 6 41:31 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 0 , 2020 #Atten 48 d	#VBN 100 kl Channel, 915.4 Dwell time (m 20 sec perio 136.02	Z MHz, 20 s is) Avg d Time	ec Duration 4 Dwell e (ms) -	Sweet Limit (ms) -	0 20 s (8)	ult
<mark>₩ A</mark> Elemen Ref -1 #Peak Log 2 dB/	Duration (ms) Agilent 13:4 It Materials 0 dBm	FSK Count Pulse 1 6 41:31 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 0 , 2020 #Atten 48 d	#VBN 100 kl Channel, 915.4 Dwell time (m 20 sec perio 136.02	Z MHz, 20 s is) Avg d Time	ec Duration 4 Dwell e (ms) -	Sweet Limit (ms) -	Resi	ult
<mark>⊯ A</mark> Elemen Ref −1 #Peak Log 2 dB/	Duration (ms) Agilent 13:4 It Materials 0 dBm	FSK Count Pulse 1 6 41:31 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 0 , 2020 #Atten 48 d	#VBN 100 kl Channel, 915.4 Dwell time (m 20 sec perio 136.02 dB	Z MHz, 20 s is) Avg d Time	ec Duration 4 Dwell e (ms) -	Sweet Limit (ms) -	Resi	ult
<mark>⊯ A</mark> Elemen Ref −1 #Peak Log 2 dB/	Duration (ms) Agilent 13:4 It Materials 0 dBm	FSK Count Pulse 1 6 41:31 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 0 , 2020 #Atten 48 d	#VBN 100 kl Channel, 915.4 Dwell time (m 20 sec perio 136.02 dB	Z MHz, 20 s is) Avg d Time	ec Duration 4 Dwell e (ms) -	Sweet Limit (ms) - R T	Resi	ult
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<mark>⊯ A</mark> Elemen Ref −1 #Peak Log 2 dB/	Duration (ms) Agilent 13:4 It Materials 0 dBm	FSK Count Pulse 1 6 41:31 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 0 , 2020 #Atten 48 d	#VBN 100 kl Channel, 915.4 Dwell time (m 20 sec perio 136.02 dB	Z MHz, 20 s is) Avg d Time	ec Duration 4 Dwell e (ms) -	Sweet Limit (ms) - - R T	Resi	
<mark>⊯ A</mark> Elemen Ref −1 #Peak Log 2 dB/ LgAv	Duration (ms) Agilent 13:4 It Materials 0 dBm	FSK Count Pulse 1 6 41:31 Apr 28 5 Technology	K, Hopping, Mid Count Pulse 2 0 , 2020 #Atten 48 0	#VBN 100 kl Channel, 915.4 Dwell time (m 20 sec perio 136.02 dB	Z MHz, 20 s is) Avg d Time	ec Duration 4 Dwell e (ms) -	Sweet	Resi	ult
<mark>⊯ A</mark> Elemen Ref −1 #Peak Log 2 dB/ LgAv W1 S2	Duration (ms) Agilent 13:4 It Materials 0 dBm	FSK Count Pulse 1 6 41:31 Apr 28 5 Technology	<pre>K, Hopping, Mid Count Pulse 2 0 , 2020 #Atten 48 0</pre>	#VBN 100 kl Channel, 915.4 Dwell time (m 20 sec perio 136.02 dB	Z MHz, 20 s is) Avg d Time	ec Duration 4 Dwell e (ms) 	Sweet Limit (ms) - - R T	Resi Resi	ult
<mark>⊯ A</mark> Elemen Ref -1 #Peak Log 2 dB/ LgAv K1 S2 S3 VS	Duration (ms) Agilent 13:4 It Materials 0 dBm	FSK Count Pulse 1 6 41:31 Apr 28 5 Technology	<pre>K, Hopping, Mid Count Pulse 2 0 , 2020 #Atten 48 0 #Atten 48 0</pre>	#VBN 100 kl Channel, 915.4 Dwell time (m 20 sec perio 136.02 dB dB	Z MHz, 20 s ss) Avg d Time	ec Duration 4 Dwell e (ms) 	Sweet Limit (ms) - R T	C 20 S (8)	
<mark>⊯ A</mark> Elemen Ref -1 #Peak Log 2 dB/ LgAv K1 S2 S3 VS	Duration (ms) Agilent 13:4 It Materials Ø dBm	FSK Count Pulse 1 6 41:31 Apr 28 5 Technology	K, Hopping, Mid Count Pulse 2 0 , 2020 #Atten 48 0 Atten 48 0 A	#VBN 100 kl Channel, 915.4 Dwell time (m 20 sec perio 136.02 dB	Z MHz, 20 s is) Avg d Time	ec Duration 4 Dwell e (ms) 	Sweet Limit (ms) - - R T	Resi Resi	ult
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<pre></pre>	Duration (ms) Agilent 13:4 It Materials 0 dBm	FSK Count Pulse 1 6 41:31 Apr 28 5 Technology	K, Hopping, Mid Count Pulse 2 0 , 2020 #Atten 48 0 Atten 48 0 A	#VBN 100 kl Channel, 915.4 Dwell time (m 20 sec perio 136.02	Z MHz, 20 s is) Avg d Time	ec Duration 4 Dwell e (ms) 	Sweet Limit (ms) - - R T	Resi Resi	ult
<pre></pre>	Duration (ms) Agilent 13:4 It Materials 0 dBm	FSk Count Pulse 1 6 41:31 Apr 28 5 Technology	K, Hopping, Mid Count Pulse 2 0 , 2020 #Atten 48 0 	#VBN 100 kl Channel, 915.4 Dwell time (m 20 sec perio 136.02	Z MHz, 20 s is) Avg d Time	ec Duration 4 Dwell e (ms) 	Sweet	Resi Resi	
<pre></pre>	Duration (ms) Agilent 13:4 It Materials 0 dBm	FSk Count Pulse 1 6 41:31 Apr 28 5 Technology	K, Hopping, Mid Count Pulse 2 0 , 2020 #Atten 48 0 	#VBN 100 kl Channel, 915.4 Dwell time (m 20 sec perio 136.02	Z MHz, 20 s is) Avg d Time	ec Duration 4 Dwell e (ms) 	Sweet Limit (ms) - - R T	Resi Resi	JULE THE SECOND
<pre></pre>	Duration (ms) Agilent 13:4 It Materials 0 dBm	FSk Count Pulse 1 6 41:31 Apr 28 5 Technology	K. Hopping, Mid Count Pulse 2 0 . 2020 #Atten 48 0	#VBN 100 kl Channel, 915.4 Dwell time (m 20 sec perio 136.02	Z MHz, 20 s is) Avg d Time	ec Duration 4 Dwell e (ms) - F	Sweet Limit (ms) - R T	20 20 S (8) Resi -	ult







		FSł	K, Hopping, Mid	Channel, 915.4 N	Hz, 20 sec Duration	on 7			
	Duration	Count	Count	Dwell time (ms) Avg Dwell	L	.imit	_	
	(ms)	Pulse 1	Pulse 2	20 sec period	Time (ms)	(ms)	Res	ult
		5		440.01				I	
	ailent 13:4	3:21 Apr 28	. 2020			R	Т		
Elemen	nt Materials	Technology	,						
Ref -1	l0 dBm		#Atten 48	dB					
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12 001	 ────					++-			
Center	915.400	MHz					^	S	pan 0 Hz
Res Bk	1 1 000 642						_		1 () () ()
	4 100 KHZ			#VBW 100 kH:	2		Sweep	20 s (8)	192 pts)
	100 KHZ	FSł	K, Hopping, Mid	#VBW 100 kH: Channel, 915.4 N	Hz, 20 sec Duratio	on 8	Sweep	20 s (8	192 pts)
	Duration	FSł Count	K, Hopping, Mid Count	#VBW 100 kH Channel, 915.4 M Dwell time (ms	Hz, 20 sec Duration Avg Dwell	on 8 L	Sweep .imit	20 s (8	192 pts)
	Duration (ms)	FSł Count Pulse 1 9	K, Hopping, Mid Count Pulse 2 0	#VBW 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 204.03	Hz, 20 sec Duration Avg Dwell Time (ms)	on 8 L (Sweep .imit ms) -	20 s (8	ult
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 来	Duration (ms) - Agilent 13:4	FSF Count Pulse 1 9 4:26 Apr 28	K, Hopping, Mid Count Pulse 2 0	#VBN 100 kH: Channel, 915.4 M Dwell time (ms 20 sec period 204.03	Z Hz, 20 sec Duration Avg Dwell Time (ms) -	on 8 L (imit ms) - T	20 s (8 Res	ult
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<mark>₩</mark> Elemer Ref -1 #Peak Log 2 dB/ LgAv k1 \$2 \$3 VS	Agilent 13:4	FSP Count Pulse 1 6 19:52 Apr 28 5 Technology	K, Hopping, Mid Count Pulse 2 0 3, 2020 #Atten 48 display="block"> #Atten 48 display="block" Counter- 3, 2020	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02	Iz, 20 sec Duration Avg Dwell Time (ms) -	Swe	Rep 20 s (8	sult
<mark>∦ /</mark> Elemer Ref -1 #Peak Log 2 dB/ dB/ LgAv k1 \$2 \$3 V\$	Agilent 13:4	FSP Count Pulse 1 6 19:52 Apr 28 3 Technology	K, Hopping, Mid Count Pulse 2 0 3, 2020 #Atten 48 display="block"/> Pulse 2 0 3, 2020	#VBW 100 kHz Channel, 915.4 MF Dwell time (ms) 20 sec period 136.02	Iz, 20 sec Duration Avg Dwell Time (ms) -	Swe	Rep 20 s (8	3192 pts)
<mark>∦ /</mark> Elemer Ref -/ #Peak Log 2 dB/ LgAv W1 \$2 \$3 V\$ \$3 V\$ £(f): f>50k	Agilent 13:4	FSP Count Pulse 1 6 49:52 Apr 28 5 Technology	K, Hopping, Mid Count Pulse 2 0 3, 2020 #Atten 48 d 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#VBW 100 kHz Channel, 915.4 MF Dwell time (ms) 20 sec period 136.02	Iz, 20 sec Duration Avg Dwell Time (ms)	Swe 14 Limit (ms) - R T	rep 20 s (8	3192 pts)
<mark>₩</mark> Elemer Ref -/ #Peak Log 2 dB/ LgAv W1 \$2 S3 V3 \$ \$(f): f>50k	Agilent 13:4	FSF Count Pulse 1 6 19:52 Apr 28 5 Technology	K, Hopping, Mid Count Pulse 2 0 3, 2020 #Atten 48 d 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#VBW 100 kHz Channel, 915.4 MF Dwell time (ms) 20 sec period 136.02	Iz, 20 sec Duration Avg Dwell Time (ms)	Sweet	rep 20 s (8	sult -
∰ / Elemer Ref -: #Peak Log 2 dB/ LgAv k1 S2 S3 V3 £(f): f>50k	Agilent 13:4	FSF Count Pulse 1 6 19:52 Apr 28 5 Technology	K, Hopping, Mid Count Pulse 2 0 3, 2020 #Atten 48 of 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#VBW 100 kHz Channel, 915.4 MF Dwell time (ms) 20 sec period 136.02	Iz, 20 sec Duration Avg Dwell Time (ms)	Sweet	rep 20 s (8	3192 pts)
∰ / Elemer Ref -/ #Peak Log 2 dB/ LgAv k1 S2 S3 VS £(f): f>50k	Agilent 13:4	FSF Count Pulse 1 6 19:52 Apr 28 5 Technology	K, Hopping, Mid Count Pulse 2 0 3, 2020 #Atten 48 distance Atten 48 distance Atte	#VBW 100 kHz Channel, 915.4 MF Dwell time (ms) 20 sec period 136.02	Iz, 20 sec Duration Avg Dwell Time (ms)	Swe	rep 20 s (8	3192 pts)
∰ / Elemer Ref -1 #Peak Log 2 dB/ LgAv k1 S2 S3 V3 £(f): f>50k	Agilent 13:4	ESP Count Pulse 1 6 19:52 Apr 28 5 Technology	K, Hopping, Mid Count Pulse 2 0 3, 2020 #Atten 48 d 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#VBW 100 kHz Channel, 915.4 MF Dwell time (ms) 20 sec period 136.02	Iz, 20 sec Duration Avg Dwell Time (ms) -	Swe	Rep 20 s (8	sult
Elemer Ref -1 #Peak Log 2 dB/ LgAv W1 \$2 \$3 V\$ £(f): f>50k Center Res B	Agilent 13:4	HHZ	K, Hopping, Mid Count Pulse 2 0 3, 2020 #Atten 48 of 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 3B 3B 4B 40 40 40 40 40 40 40 40 40 40	Iz, 20 sec Duration Avg Dwell Time (ms) -	Swe	rep 20 s (8	sult



		FS	K, Hopping, Mid	Channel, 915.4 M	/Hz, 20 sec Dura	tion 15			
	Duration	Count	Count	Dwell time (m	s) Avg Dwell		Limit		
	(ms) -	Pulse 1	Puise 2	136.02	i Time (ms)		(ms) -	ĸ	-
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**	ailent 13:5	2:33 Apr 2	8.2020			R	Т		
Flemer	nt Materials	s Technology	0, 2020				•		
Ref -1	L0 dBm		#Atten 48	dB					
#Peak									
Log									
2									
dB/									
LgAv									
W1 S2									
53 VS	2								
f (f)									
f>50k									
Center	915.400 °	MHz					^		Span 0 Hz
Res Bl	√100 kHz								
				_#VBW 100 kH	z		Swee	o 20 s ((8192 pts)
		FS	K, Hopping, Mid	#VBW 100 kH Channel, 915.4 M	Z 1Hz, 20 sec Dura	tion 16	Swee	o 20 s ((8192 pts)
	Duration	FS Count	K, Hopping, Mid Count	#VBW 100 kH Channel, 915.4 M Dwell time (m	Z /Hz, 20 sec Dura s) Avg Dwell	tion 16	Swee Limit	o 20 s ((8192 pts)
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₩ 4 Elemer Ref -1 #Peak Log 2 dB/	Duration (ms) 	FS Count Pulse 1 9 8:59 Apr 2: 5 Technology	K, Hopping, Mid Count Pulse 2 0 8, 2020 #Atten 48	#VBX 100 kF Channel, 915.4 N Dwell time (m 20 sec perior 204.03	Z //Hz, 20 sec Dura s) Avg Dwell d Time (ms)	R	Swee Limit (ms) - T	R	8192 pts)
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<mark>⊯</mark> Elemer Ref –1 #Peak Log 2 dB∕	Duration (ms) Agilent 13:5 It Materials 0 dBm	FS Count Pulse 1 9 58:59 Apr 2 58:59 Apr 2 57 Echnology	K, Hopping, Mid Count Pulse 2 0 8, 2020 #Atten 48	■VBX 1000 kH Channel, 915.4 N Dwell time (m 20 sec perior 204.03 dB dB	Z /Hz, 20 sec Dura s) Avg Dwell d Time (ms) -	R	Swee Limit (ms) - T	R	esult -
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¥¥ ¥ Elemer Ref −1 #Peak Log 2 dB/ LgAv	Duration (ms) - Agilent 13:5 It Materials LØ dBm	FS Count Pulse 1 9 58:59 Apr 2 58:59 Apr 2 58:59 Apr 2 58:59 Apr 2 58:59 Apr 2 59 59 59 50 50 50 50 50 50 50 50 50 50 50 50 50	K, Hopping, Mid Count Pulse 2 0 8, 2020 #Atten 48	■VBN 100 kF Channel, 915.4 N Dwell time (m 20 sec period 204.03 dB	Z MHz, 20 sec Dura s) Avg Dwell d Time (ms) -	R R	Swee	R	esult -
Elemen Ref -1 #Peak Log 2 dB/ LgAv W1 \$2 \$3 W1	Duration (ms) 	FS Count Pulse 1 9 58:59 Apr 2 58:59 Apr 2 58:59 Apr 2 59 7 Cechnology	K, Hopping, Mid Count Pulse 2 0 8, 2020 #Atten 48	■VBN 100 kl Channel, 915.4 N Dwell time (m 20 sec period 204.03	Z MHz, 20 sec Dura s) Avg Dwell d Time (ms)	R R	Swee	R	esult
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		FSK,	Hopping, Mid	Channel, 915.4 M	Hz, 20 sec Duratio	on 17			
	Duration	Count	Count	Dwell time (ms) Avg Dwell	L	.imit		
	(ms)	Puise 1	Pulse 2	20 sec period	Time (ms)	(ms) -	Rest	lit
		0	Ū	00.01					
	ailent 13:5	3:36 Apr 28.	2020			R	Т		
Flemen	t Materials	Technology	2020				•		
Ref -1	0 dBm	, rocimology	#Atten 48	dB					
#Peak									
Log									
2									
dB/									
LgAv									
W1 S2									
53 VS									
e (f)•						_			
f>50k									
Center	915.400	MHz					^	Sr	oan 0 Hz
Res Bl									
	√100 kHz			#VBW 100 kH	Z		Sweep :	20 s (81	.92 pts)
100 51	∖ 100 kHz	FSK,	Hopping, Mid (#VBW 100 kH Channel, 915.4 M	z Hz, 20 sec Duratic	on 18	Sweep (20 s (81	.92 pts)
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₩ee Ek Elemer Ref = 1 #Peak	Duration (ms) 	FSK, Count Pulse 1 9 4:13 Apr 28, Technology	Hopping, Mid G Count Pulse 2 0 2020 #Atten 48	#VBW 100 kH Channel, 915.4 M Dwell time (ms 20 sec period 204.03	Z Hz, 20 sec Duratio) Avg Dwell Time (ms) -	n 18 L (Sweep i imit ms) - T	20 s (81	.92 pts)
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Elemen Ref -1 #Peak Log 2 dB/	Duration (ms) 	FSK, Count Pulse 1 9 4:13 Apr 28, Technology	Hopping, Mid (Count Pulse 2 0 2020 #Atten 48	#VBW 100 kH Channel, 915.4 M Dwell time (ms 20 sec period 204.03	Z Hz, 20 sec Duratio) Avg Dwell Time (ms) -	n 18 (Sweep ; imit ms) - T	20 s (81	.92 pts) .ilt
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Elemen Ref -1 #Peak Log 2 dB/ LgAv W1 S2 S3 V3 £(f): f>50k	Duration (ms) - - - - - - - - - - - - - - - - - - -	FSK, Count Pulse 1 9 4:13 Apr 28, 5 Technology	Hopping, Mid (Count Pulse 2 0 2020 #Atten 48	#VBW 100 kH Channel, 915.4 M Dwell time (ms 20 sec period 204.03 dB dB	Z	R R	Sweep : imit ms) - T	20 s (81	.92 pts)
Elemen Ref -1 #Peak Log 2 dB∕ LgAv W1 S2 S3 VS £(f): f>50k	Duration (ms) - - - - - - - - - - - - - - - - - - -	FSK, Count Pulse 1 9 4:13 Apr 28, 5 Technology	Hopping, Mid (Count Pulse 2 0 2020 #Atten 48	#VBW 100 kH Channel, 915.4 M Dwell time (ms 20 sec period 204.03 dB dB	Z		Sweep i imit ms) T	20 s (81	.92 pts)
Elemen Ref -1 #Peak Log 2 dB∕ LgAv W1 \$2 \$3 V\$ £(f): f>50k	Duration (ms) 	FSK, Count Pulse 1 9 4:13 Apr 28, 5 Technology	Hopping, Mid (Count Pulse 2 0 2020 #Atten 48	#VBW 100 kH Channel, 915.4 M Dwell time (ms 20 sec period 204.03 dB dB	Z		Sweep : .imit ms) - T	20 s (81	.92 pts)
Elemen Ref -1 #Peak Log 2 dB/ LgAv W1 S2 S3 VS £(f): f>50k	Duration (ms) 	FSK, Count Pulse 1 9 4:13 Apr 28, 5 Technology	Hopping, Mid C Count Pulse 2 0 2020 #Atten 48	#VBW 100 kH Channel, 915.4 M Dwell time (ms 20 sec period 204.03 dB dB	Z Hz, 20 sec Duratio) Avg Dwell Time (ms) 		Sweep : .imit ms) T T	20 s (81	.92 pts)
Elemen Ref -1 #Peak Log 2 dB/ LgAv W1 S2 S3 VS £(f): f>50k Center	Uuration (ms) sgilent 13:5 0 dBm	FSK, Count Pulse 1 9 4:13 Apr 28, 5 Technology	Hopping, Mid C Count Pulse 2 0 2020 #Atten 48	#VBW 100 kH Channel, 915.4 M Dwell time (ms 20 sec period 204.03 dB dB	Z		Sweep : imit ms) T T Substant	20 s (81	.92 pts)



		FSł	K, Hopping, Mid (Channel, 915.4 MH	z, 20 sec Duratior	า 19		
	Duration	Count	Count	Dwell time (ms)	Avg Dwell	Limit		
	(ms)	Pulse 1	Pulse 2	20 sec period	Time (ms)	(ms)	R	esult
	-	9	0	204.03	-	-		-
sta .						р т		
- 朱 A	igilent 13:	55:20 Hpr 28	3,2020			кі		
Elemen	t Material:	s lechnology						
Ret -1	.0 dBm		#Htten 48	dB				
#Peak								
LOG								
스 서면 /								
uD7								
LgAv								
W1 S2								
53 VS								
c (f)								
£<17. f>50k								
Center	915.400	MHz						Span 0 Hz
Res Bl								
1100 B1	√100 kHz			₩VBW 100 kHz			ep 20 s ((8192 pts)_
	√100 kHz	ESP	(Hopping Mid (#VBW 100 kHz	z 20 sec Duration	Swe	ep 20 s ((8192 pts)
	100 kHz Duration	FSł Count	K, Hopping, Mid (Count	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms)	z, 20 sec Duratior Avg Dwell	Swe n 20 Limit	ep 20 s ((8192 pts)
	Duration (ms)	FSk Count Pulse 1	K, Hopping, Mid C Count Pulse 2	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period	z, 20 sec Duratior Avg Dwell Time (ms)	n 20 Limit (ms)	ep 20 s (R	(8192 pts)
	Duration (ms)	FSF Count Puise 1 6	K, Hopping, Mid (Count Pulse 2 0	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02	z, 20 sec Duratior Avg Dwell Time (ms) -	Swe n 20 Limit (ms)	ep 20 s (R	(8192 pts) esult
	Duration (ms)	FSF Count Pulse 1 6	C, Hopping, Mid C Count Pulse 2 0	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02	z, 20 sec Duratior Avg Dwell Time (ms) -	Swe 1 20 Limit (ms) -	ep 20 s (R	(8192 pts) esult -
× A	Duration (ms)	FSH Count Pulse 1 6 58:16 Apr 28	K, Hopping, Mid (Count Pulse 2 0 3, 2020	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02	z, 20 sec Duration Avg Dwell Time (ms)	Swe Limit (ms) - R T	ep 20 s (R	(8192 pts) esult -
₩ A Element	Duration (ms) 	FSH Count Pulse 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid (Count Pulse 2 0 3, 2020	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02	z, 20 sec Duration Avg Dwell Time (ms) -	Swe 120 Limit (ms) R T	ep 20 s (R	(8192 pts) esult
₩ A Elemen Ref -1 #Peak	Duration (ms) sgilent 13:5 t Materials	FSH Count Puise 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid C Count Pulse 2 0 3, 2020 #Atten 48 d	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB	z, 20 sec Duration Avg Dwell Time (ms) -	Swe Limit (ms) R T	ep 20 s (R	(8192 pts) esult
₩ A Elemen Ref -1 #Peak Log	Duration (ms) 	FSH Count Puise 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid (Count Pulse 2 0 3, 2020 #Atten 48 0	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB	z, 20 sec Duration Avg Dwell Time (ms) -	Swe Limit (ms) R T	ep 20 s (R	(8192 pts)
Elemen Ref -1 #Peak Log 2	Duration (ms) 	FSH Count Puise 1 6 58:16 Apr 28 s Technology	<pre>K, Hopping, Mid Count Pulse 2 0 3, 2020 #Atten 48 content #Atten 48 content #At</pre>	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB	z, 20 sec Duration Avg Dwell Time (ms)	Swe Limit (ms) R T	ep 20 s i R	(8192 pts)
Elemen Ref -1 #Peak Log 2 dB/	Duration (ms) 	FSH Count Puise 1 6 58:16 Apr 28 s Technology	(, Hopping, Mid (Count Pulse 2 0 3, 2020 #Atten 48 o	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB	z, 20 sec Duration Avg Dwell Time (ms)	Swe Limit (ms) R T	ep 20 s (R	(8192 pts)
₩ A Elemen Ref -1 #Peak Log 2 dB/	agilent 13:5	FSF Count Puise 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid C Count Pulse 2 0 3, 2020 #Atten 48 o	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02	z, 20 sec Duration Avg Dwell Time (ms) -	Swe Limit (ms) R T	ep 20 s ((8192 pts)
₩ A Elemer Ref -1 #Peak Log 2 dB/	Duration (ms) 	FSF Count Pulse 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid C Count Pulse 2 0 3, 2020 #Atten 48 0	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02	z, 20 sec Duration Avg Dwell Time (ms) -	Swe	ep 20 s (R	(8192 pts)
₩ A Elemer Ref -1 #Peak Log 2 dB/	Duration (ms) 	FSF Count Pulse 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid (Count Puise 2 0 3, 2020 #Atten 48 0	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB	z, 20 sec Duration Avg Dwell Time (ms) -	Swe	ep 20 s (R	(8192 pts)
₩ A Elemer Ref -1 #Peak Log 2 dB/	Duration (ms) 	FSF Count Pulse 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid C Count Pulse 2 0 3, 2020 #Atten 48	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB	z, 20 sec Duration Avg Dwell Time (ms) -	Swe Limit (ms) - R T	ep 20 s (R	(8192 pts)
₩ A Elemer Ref -1 #Peak Log 2 dB/	Duration (ms) 	FSF Count Pulse 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid (Count Pulse 2 0 3, 2020 #Atten 48 0	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB	z, 20 sec Duration Avg Dwell Time (ms) -	Swe Limit (ms) - R T	ep 20 s ((8192 pts)
Elemer Ref -1 #Peak Log 2 dB/	A 100 kHz	FSF Count Pulse 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid (Count Pulse 2 0 3, 2020 #Atten 48 0	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB	z, 20 sec Duration Avg Dwell Time (ms) -	Swe Limit (ms) - R T	ep 20 s d R	(8192 pts)
₩ A Elemer Ref -1 #Peak Log 2 dB/	A 100 kHz	FSF Count Pulse 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid (Count Pulse 2 0 3, 2020 #Atten 48 (Atten 48	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB dB	z, 20 sec Duration Avg Dwell Time (ms) -	Swe Limit (ms) - R T	ep 20 s ((8192 pts)
Elemer Ref -1 #Peak Log 2 dB/ LgAv W1 S2	A 100 kHz	FSF Count Pulse 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid (Count Pulse 2 0 3, 2020 #Atten 48 (Atten 48	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB dB	z, 20 sec Duration Avg Dwell Time (ms) -	Swe Limit (ms) - R T	ep 20 s ((8192 pts)
Elemen Ref -1 #Peak Log 2 dB/ LgAv W1 \$2 \$3 VS	A 100 kHz	FSF Count Pulse 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid (Count Pulse 2 0 3, 2020 #Atten 48 (Count Pulse 2 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB dB	z, 20 sec Duration Avg Dwell Time (ms) -	Swe	ep 20 s ((8192 pts)
Elemen Ref -1 #Peak Log 2 dB/ LgAv W1 \$2 \$3 VS	A 100 kHz	FSF Count Pulse 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid (Count Pulse 2 0 3, 2020 #Atten 48 (Atten 48	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB dB	z, 20 sec Duration Avg Dwell Time (ms) -	Swe Limit (ms) - R T	ep 20 s ((8192 pts)
Elemen Ref -1 #Peak Log 2 dB/ LgAv W1 \$2 \$3 VS	A 100 kHz	FSF Count Pulse 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 0 3, 2020 #Atten 48 distance Count Pulse 2 0 4 3, 2020 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB dB	z, 20 sec Duration Avg Dwell Time (ms) -	Swe Limit (ms) - R T	ep 20 s ((8192 pts)
¥¥ ↓ Elemer Ref -1 #Peak Log 2 dB/ LgAv W1 \$2 \$3 VS £(f): f>50k	A 100 kHz	FSF Count Pulse 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid (Count Pulse 2 0 3, 2020 #Atten 48 (2020 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB dB	z, 20 sec Duration Avg Dwell Time (ms) -	Swe Limit (ms) - R T	ep 20 s ((8192 pts)
Elemen Ref -1 #Peak Log 2 dB∕ LgAv W1 \$2 \$3 VS £(f): f>50k	A 100 kHz	FSF Count Pulse 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid (Count Pulse 2 0 3, 2020 #Atten 48 d	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB dB	z, 20 sec Duration Avg Dwell Time (ms) -	Swe Limit (ms) - R T	ep 20 s ((8192 pts)
Elemen Ref -1 #Peak Log 2 dB/ LgAv ₩1 S2 S3 VS £(f): f>50k	Duration (ms) Agilent 13:5 t Material 0 dBm	FSF Count Pulse 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid G Count Pulse 2 0 3, 2020 #Atten 48 d 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB dB	z, 20 sec Duration Avg Dwell Time (ms)	Swe	ep 20 s ((8192 pts)
Elemen Ref -1 #Peak Log 2 dB/ LgAv W1 S2 S3 VS €(f): f>50k	Duration (ms) Agilent 13:5 t Material 0 dBm	FSF Count Pulse 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid Count Pulse 2 0 3, 2020 #Atten 48 d 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB dB dB	z, 20 sec Duration Avg Dwell Time (ms) -	Swe	ep 20 s ((8192 pts)
Elemen Ref -1 #Peak Log 2 dB/ LgAv W1 \$2 \$3 V\$ £(f): f>50k	Duration (ms) Agilent 13:5 t Material 0 dBm	FSF Count Pulse 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid G Count Pulse 2 0 3, 2020 #Atten 48 d 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB dB dB	z, 20 sec Duration Avg Dwell Time (ms) -	R T	ep 20 s 0 R	(8192 pts)
Elemen Ref -1 #Peak Log 2 dB/ LgAv W1 \$2 \$3 V3 £(f): f>50k Center	A 100 kHz Duration (ms) Agilent 13:5 t Material 0 dBm 0 dBm	FSF Count Pulse 1 6 58:16 Apr 28 s Technology	K, Hopping, Mid (Count Pulse 2 0 3, 2020 #Atten 48 d 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#VBW 100 kHz Channel, 915.4 MH Dwell time (ms) 20 sec period 136.02 dB dB	z, 20 sec Duration Avg Dwell Time (ms) -	Swe	ep 20 s 0	(8192 pts)



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Meter - Multimeter	Tektronix	DMM912	MMH	15-Feb-19	15-Feb-22
Power Supply - DC	MPJA	9950 PS	TQA	NCR	NCR
Generator - Signal	Agilent	N5183A	TID	26-Apr-19	26-Apr-21
Cable	Micro-Coax	UFD150A-1-0720-200200	EVH	13-Mar-20	13-Mar-21
Attenuator	S.M. Electronics	SA26B-20	AUY	13-Mar-20	13-Mar-21
Block - DC	Fairview Microwave	SD3379	AMW	13-Mar-20	13-Mar-21
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	28-Feb-20	28-Feb-21
Attenuator	Fairview Microwave	18B5W-26	RFZ	23-Jul-19	23-Jul-20

TEST DESCRIPTION

The peak output power was measured with the EUT set to low, medium and high transmit frequencies. The EUT was transmitting in a no hop mode at the data rate(s) listed in the datasheet.

The method found in ANSI C63.10:2013 Section 7.8.5 was used for a FHSS radio.



							TbtTx 2019.08.30.0	XMit 2020.03.25.0	
EUT	7 Inch Snow, RC-7W					Work Order:	POLR0070		
Serial Number	20093F0005					Date:	29-Apr-20		
Customer	Polaris Industries, Inc.					Temperature:	21.9 °C		
Attendees	None				Humidity: 46.1% RH				
Project	None				B	arometric Pres.:	1016 mbar		
Tested by	Jeff Alcoke and Kam Rob	ertson	Powers	14 VDC		Job Site:	EV06		
TEST SPECIFICATIONS Test Method									
FCC 15.247:2020				ANSI C63.10:2013					
COMMENTS									
Reference level of	fset includes: DC Block, 46	dB attenuation, and measurement	cable						
DEVIATIONS FRO	M TEST STANDARD								
None									
Configuration #	8	Signature	1A						
						Out Pwr	Limit		
						Value	(≤)	Result	
FSK, Single Channe	el								
	Low Channel, 902.4 MHz					0.917 W	1 W	Pass	
	Mid Channel, 915.4 MHz					0.974 W	1 W	Pass	
	High Channel, 927.6 MHz					0.99 W	1 W	Pass	











Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Meter - Multimeter	Tektronix	DMM912	MMH	15-Feb-19	15-Feb-22
Power Supply - DC	MPJA	9950 PS	TQA	NCR	NCR
Generator - Signal	Agilent	N5183A	TID	26-Apr-19	26-Apr-21
Cable	Micro-Coax	UFD150A-1-0720-200200	EVH	13-Mar-20	13-Mar-21
Attenuator	Fairview Microwave	18B5W-26	RFZ	23-Jul-19	23-Jul-20
Attenuator	S.M. Electronics	SA26B-20	AUY	13-Mar-20	13-Mar-21
Block - DC	Fairview Microwave	SD3379	AMW	13-Mar-20	13-Mar-21
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	28-Feb-20	28-Feb-21

TEST DESCRIPTION

The peak output power was measured with the EUT set to low, medium and high transmit frequencies. The EUT was transmitting in a no hop mode at the data rate(s) listed in the datasheet.

The method found in ANSI C63.10:2013 Section 7.8.5 was used for a FHSS radio.

Equivalent Isotropic Radiated Power (EIRP) = Max Measured Power + Antenna gain (dBi)



								TbtTx 2019.08.30.0	XMit 2020.03.25.0
EUT	7 Inch Snow, RC-7W						Work Order:	POLR0070	
Serial Number	: 20093F0005						Date:	29-Apr-20	
Customer	Polaris Industries, Inc.						Temperature:	21.9 °C	
Attendees	: None						Humidity:	46% RH	
Project	: None						Barometric Pres.:	1016 mbar	
Tested by	: Jeff Alcoke and Kam Robe	ertson	Power:	14 VDC			Job Site:	EV06	
TEST SPECIFICAT	TIONS			Test Method					
FCC 15.247:2020				ANSI C63.10:2013					
COMMENTS									
Reference level of	fset includes: DC Block, 46	dB attenuation, and measurement ca	able						
DEVIATIONS FRO	M TEST STANDARD								
None									
Configuration #	8	Signature	1 AF		5				
				Output Power (mW)	Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
FSK, Single Channe	el								
	Low Channel, 902.4 MHz			917.46	29.6	3.0	32.6	36	Pass
	Mid Channel, 915.4 MHz			974.09	29.9	3.0	32.9	36	Pass
	High Channel, 927.6 MHz			990.83	30.0	3.0	33.0	36	Pass







			FSK, Single Ch	annel, High Cha	annel, 927.6 MHz			
		Output	Output	Antenna	EIRP	EIRP Limit		
		Power (mW)	Power (dBm)	Gain (dBi)	(dBm)	(dBm)	Result	
		990.83	30.0	3.0	33.0	36	Pass	
· 米 Ag	gilent 08:3!	5:15 Apr 29,	, 2020			RT		
Element	: Materials	Technology				Mkr1	927.555 1	MHz
Ref 3.5	W		#Atten 10 d	B			990.83	mW
#Peak ∥								
Log			1					
5								
dB/								
Offst								
48								
aв								
LgHv								
M4 00								
MI 52								
53 FC								
c /D.						_		
L(T).								
1/JUK								
Jwh								
Center	927.600 0	0 MHz					Span 400 I	(Hz
#Res Bl	W 200 kHz		#	VBW 620 kH	z	_Sweep 1.060	6 ms (1000 p	ts)_

BAND EDGE COMPLIANCE



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Block - DC	Fairview Microwave	SD3379	AMW	13-Mar-20	13-Mar-21
Generator - Signal	Agilent	N5183A	TID	26-Apr-19	26-Apr-21
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	28-Feb-20	28-Feb-21
Meter - Multimeter	Tektronix	DMM912	MMH	15-Feb-19	15-Feb-22
Power Supply - DC	MPJA	9950 PS	TQA	NCR	NCR
Cable	Micro-Coax	UFD150A-1-0720-200200	EVH	13-Mar-20	13-Mar-21
Attenuator	S.M. Electronics	SA26B-20	AUY	13-Mar-20	13-Mar-21
Attenuator	Fairview Microwave	18B5W-26	RFZ	23-Jul-19	23-Jul-20

TEST DESCRIPTION

These measurements were made using a direct connection between the radio frequency output of the equipment under test and a spectrum analyzer. The spurious radio frequency conducted emissions at the edges of the authorized band were measured with the equipment under test set to low and high transmit frequencies. The equipment under test was transmitting at the data rate(s) listed in the datasheet in a no-hop mode. The channels closest to the band edges were selected.

The spectrum was scanned below the lower band edge and above the higher band edge.

BAND EDGE COMPLIANCE





BAND EDGE COMPLIANCE







BAND EDGE COMPLIANCE - HOPPING MODE



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Power Supply - DC	MPJA	9950 PS	TQA	NCR	NCR
Meter - Multimeter	Tektronix	DMM912	MMH	15-Feb-19	15-Feb-22
Generator - Signal	Agilent	N5183A	TID	26-Apr-19	26-Apr-21
Cable	Micro-Coax	UFD150A-1-0720-200200	EVH	13-Mar-20	13-Mar-21
Attenuator	Fairview Microwave	18B5W-26	RFZ	23-Jul-19	23-Jul-20
Attenuator	S.M. Electronics	SA26B-20	AUY	13-Mar-20	13-Mar-21
Block - DC	Fairview Microwave	SD3379	AMW	13-Mar-20	13-Mar-21
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	28-Feb-20	28-Feb-21

TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized band were measured with the EUT set to its normal pseudo-random hopping sequence. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

BAND EDGE COMPLIANCE - HOPPING MODE



				TbtTx 2019.08.30.0	XMit 2020.03.25.0				
EUT:	7 Inch Snow, RC-7W		Work Order:	POLR0070					
Serial Number:	20093F0005		Date:	29-Apr-20					
Customer:	Polaris Industries, Inc.		Temperature:	21.9 °C					
Attendees:	None		Humidity:	45.9% RH					
Project:	None		Barometric Pres.:	1017 mbar					
Tested by:	Jeff Alcoke and Kam Robertson	Power: 14 VDC	Job Site:	EV06					
TEST SPECIFICAT	IONS	Test Method							
FCC 15.247:2020		ANSI C63.10:2013							
COMMENTS									
Reference level off	Reference level offset includes: DC Block, 46 dB attenuation, and measurement cable								
DEVIATIONS FROM	M TEST STANDARD								
None									
Configuration #	8 Signature	Tot the							
			Value (dBc)	Limit ≤ (dBc)	Result				
FSK, Hopping Mode									
	Low Channel, 902.4 MHz		-38.71	-20	Pass				
	High Channel, 927.6 MHz		-46.83	-20	Pass				

BAND EDGE COMPLIANCE - HOPPING MODE





£(f): f>50k

Swp

Center 928.000 0 MHz

#Res BW 100 kHz

#VBW 300 kHz

monwhat

ANN

Span 1.5 MHz

Sweep 1.066 ms (1000 pts)



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Meter - Multimeter	Tektronix	DMM912	MMH	15-Feb-19	15-Feb-22
Power Supply - DC	MPJA	9950 PS	TQA	NCR	NCR
Generator - Signal	Agilent	N5183A	TID	26-Apr-19	26-Apr-21
Cable	Micro-Coax	UFD150A-1-0720-200200	EVH	13-Mar-20	13-Mar-21
Attenuator	S.M. Electronics	SA26B-20	AUY	13-Mar-20	13-Mar-21
Block - DC	Fairview Microwave	SD3379	AMW	13-Mar-20	13-Mar-21
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	28-Feb-20	28-Feb-21
Attenuator	Fairview Microwave	18B5W-26	RFZ	23-Jul-19	23-Jul-20

TEST DESCRIPTION

The 20 dB occupied bandwidth was measured with the EUT set to low, medium and high transmit frequencies in the band. The EUT was transmitting at the data rate(s) listed in the datasheet in a no-hop mode.















Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Power Supply - DC	MPJA	9950 PS	TQA	NCR	NCR
Meter - Multimeter	Tektronix	DMM912	MMH	15-Feb-19	15-Feb-22
Generator - Signal	Agilent	N5183A	TID	26-Apr-19	26-Apr-21
Cable	Micro-Coax	UFD150A-1-0720-200200	EVH	13-Mar-20	13-Mar-21
Attenuator	Fairview Microwave	18B5W-26	RFZ	23-Jul-19	23-Jul-20
Attenuator	S.M. Electronics	SA26B-20	AUY	13-Mar-20	13-Mar-21
Block - DC	Fairview Microwave	SD3379	AMW	13-Mar-20	13-Mar-21
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	28-Feb-20	28-Feb-21

TEST DESCRIPTION

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The EUT was transmitting at the data rate(s) listed in the datasheet in a no-hop mode. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.



								TbtTx 2019.08.30.0	XMit 2020.03.25.0
EUT:	7 Inch Snow, RC-7W						Work Order:	POLR0070	
Serial Number:	20093F0005						Date:	29-Apr-20	
Customer:	Polaris Industries, Inc.						Temperature:	21.9 °C	
Attendees:	None					Humidity:	46.1% RH		
Project:	None						Barometric Pres.:	1017 mbar	
Tested by:	Jeff Alcoke and Kam Rob	pertson	Power:	14 VDC			Job Site:	EV06	
TEST SPECIFICATI	IONS			Test Method					
FCC 15.247:2020				ANSI C63.10:2013					
COMMENTS									
Reference level off	set includes: DC Block, 46	dB attenuation, and measurement c	able						
DEVIATIONS FROM	I TEST STANDARD								
None									
Configuration #	8	-	111	1/1					
oomgaraaton #	, , , , , , , , , , , , , , , , , , ,	Signature	OF 1	1/2					
				Frequency		Measured	Max Value	Limit	
				Range		Freq (MHz)	(dBc)	≤ (dBc)	Result
FSK, Single Channe	1								
	Low Channel, 902.4 MHz			Fundamental		902.43	N/A	N/A	N/A
	Low Channel, 902.4 MHz			30 MHz - 12 GHz		1804.1	-46.74	-20	Pass
	Mid Channel, 915.4 MHz			Fundamental		915.44	N/A	N/A	N/A
	Mid Channel, 915.4 MHz			30 MHz - 12 GHz		1830.4	-48.01	-20	Pass
	High Channel, 927.6 MHz			Fundamental		927.59	N/A	N/A	N/A
	High Channel, 927.6 MHz			30 MHz - 12 GHz		1855.2	-48.29	-20	Pass



Frequency

Range

Fundamental



Agilent 08:49:14 Apr 28, 2020 ₩. Element Materials Technology Ref 35 dBm #Peak #Atten 10 dB Log 10 dB/ 0ffst 48 dB #LgAv V1 S3 S2 FC £(f): f>50k бwр Start 914.900 00 MHz Stop 915.900 00 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.092 ms (8192 pts) FSK, Single Channel, Mid Channel, 915.4 MHz Frequency Measured Max Value Limit Freq (MHz) ≤ (dBc) Range (dBc) Result 30 MHz - 12 GHz -48.01





