### **EMC TEST REPORT**

NVLAP Lab Code 200033-0

#### Standard(s):

47 CFR FCC Parts 15.247 and 15.109 RSS 247, Issue 2, 2017 ICES 003, Issue 6, 2016

FCC ID:DGFPSDTR602CX1 IC:458A-PSDTR602CX1

**Product: 3M™ Versaflo™ Powered Air Respirator** 

Model(s): TR-600-CX

Company Name: 3M Company

Address:

3M Center, Building 235 St. Paul, MN 55144-1000

Report Number: RE1908179-1 Report Issue Date: March 17, 2020

**Report Prepared by:** 

Signature: Yuriy Litvinov Lead EMC Engineer

Tested by: 3M EMC Laboratory 410 E. Fillmore Avenue, Building 76-01-1 St. Paul, Minnesota 55107-1000, USA



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#### 1.0 Test Summary

Based on the results of our investigation, we have concluded the product tested **comply** with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested.

	Test Description	Requirement – Test	Result	Comments
4.1	15.247(a)(2)/ RSS247,5.2/RSS Gen, 6.6	DTS Bandwidth	pass	
4.2	15.247(b)(3)/ RSS 247, 5.4(d)	Maximum Peak Conducted Output Power pass		
4.3	Part 15.247(e)/ RSS 247, 5.2(b)	Maximum Power Spectral Density level	pass	
4.4	15.209/15.109/ RSS Gen, 8.9	Radiated Emissions in restricted band	pass	
4.5	15.247(d)/RSS 247,5.5	Radiated Emissions in non-restricted band	pass	
4.6	15.247(d)(1)/ RSS 247, 5.5	DTS Band-edge Emissions Measurements	pass	
4.7	Part 15.207/RSS-Gen, 8.8	Conducted Emissions	N/A	See note
4.8	Part 15.247(i)/RSS 102	RF Exposure Compliance	pass	

Note:	Device is powered from the battery.
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### 1.1 Measurement Uncertainty

The measured value related to the corresponding limit will be used to decide whether the equipment meets the requirements. The measurement uncertainty figures were calculated and correspond to a coverage factor of k=2, providing a confidence level of respectively 95.45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian).

Radiated emissions 30MHz to 1000MHz	4.9 dB
Radiated emissions 1GHz to 18GHz	4.6 dB
Conducted emissions 150KHz to 30MHz (AMN)	2.7 dB
Conducted emissions 150KHz to 30MHz (AAN)	1.92 dB



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# 2.0 Equipment Description

**3M** 

2.1	<b>Equipment Under Test</b>				
Description:		Powered Air Purifying Respirator for use in rugged environments such as industrial, demolition, grinding, metal finishing and casting operations.			
	Model(s):	TR-600-CX			
	Serial number:	N/A			
	Contact:	Peter Brudzinski			
	Phone:	651 736 9053			
	3M Division:	Personal Safety			
Modifications and Special Measures:		none			
Frequency Range:		2402.0-2480.0 MHz	7		
Channel No.:		39			
Modulation Type:		GFSK			
Output Power EIRP:		-2.45dBm (0.6mW)			
Antenna Type:		Internal PCB Anten	na		
	Antenna Gain:	1.15 dBi			
	Test Deviations or Exclusions	☐ Yes	⊠ No		
		Voltage:	☐ 120VAC	☐ 230VAC	
	Rated Power:	Phase:	☐ 1ph	☐ 3ph	□ Battery
	Rated Power.	Frequency:	☐ 50Hz	☐ 60Hz	
		Current:			
Test Dates:		11/21-12/05//2019			
Received Date:		11/21/2019			
	Received Conditions:	Poor	⊠ Good		
	Received Conditions.	□ Prototype	☐ Production		



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# 3.0 EUT Configuration

**3M** 

3.1 System Configuration

No.	Product Type	Manufacturer	Model	Comments
1	Blower Assembly	3M	TR-600 (rev.C)	
2	Li-lon battery	3M	TR-632	Support Equipment
3	Battery Charger	3M	TR-640	Support Equipment

### 3.2 Input/Output Ports of EUT

No.	Description	Туре	Comments
1			
2			

### 3.3 Cables

No.	Description	Туре	Length	Shielding	Comments
1					
2					

3.4 Measurement Arrangements of EUT

Intended Operational Arrangement(s)	Comments
Table-top only	
Floor-standing only	
Floor-standing or table-top	
Other	

3.5 Primary function(s) of EUT

No.	List of Essential Functions
1	Near-field communication (NFC) for RFID tag reading from the filter
2	Transferring of various environmental and functional data via Bluetooth radio using 3M Active Safety Messaging Protocol.

3.6 Exercising of EUT and Interfaces

No.	Mode of Operation
1	Transmitting at lowest (0), middle (19) and highest (39) channels of operation with unmodulated CW carrier
2	Continues transmission of modulated signal at 13.56MHz
3	Device programming using Nordic Studio BT software for continues transmission of modulated carrier at maximum rated RF output power and Duty Cycle.



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# 4.0 Test Conditions and Results

**3M** 

4.1	.1 DTS Bandwidth		
		Laboratory Ambient Temperature:	23°C
		Relative Humidity:	48%
		Atmospheric Pressure:	1011 mbars
Referer	nce Standard(s):	<ul><li>☑ ANSI C63.10:2013</li><li>☑ FCC Part 15.247/RSS 247</li></ul>	Measurement Point  ☐ Conducted ☐ Radiated
Fre	equency Range:	⊠ 2402.0-2480.0 MHz	RBW = 100KHz VBW ≥ 3 x RBW
N	Nominal Voltage: ☐ 120VAC ☑ 11VDC		
Test Personnel:		Yuriy Litvinov yang divinor	<b>Date:</b> 12/05/2019

Frequency (MHz)	99% dB Bandwidth (KHz)	6 dB Bandwidth (KHz)	6dB OBW Limit (KHz)	Results
2402	1068	691	> 500	pass
2440	1069	692	> 500	pass
2480	1070	689	> 500	pass





**OBW - Low Channel** 

**OBW - Mid Channel** 

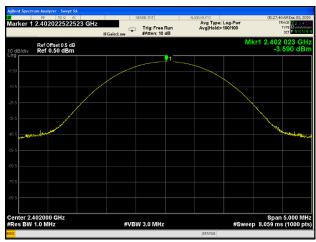


**OBW – High Channel** 



4.2	Maximum Output	Maximum Output Power					
Method:		Measurements was performed with CW carrier at the highest power level at which the transmitter is intended to operate. analyzer offset was adjusted to compensate for the attenuator and other losses.					
		Laboratory Ambient Temperature:	23°C				
		Relative Humidity:	48%				
		Atmospheric Pressure:	1011 mbars				
Refe	erence Standard(s):	<ul><li>☑ ANSI C63.10:2013</li><li>☑ FCC Part 15.247/RSS 247</li><li>☑ KDB 558074</li></ul>	Measurement Point  ☑ Conducted				
	Frequency Range:	⊠ 2402.0 – 2480.0 MHz	Radiated at 3 meters				
	Antenna Gain:	1.15 dBi	Maximum Conducted Power (EIRP):				
	Limit:	30 dBm	-2.45 dBm				
	Nominal Voltage:	☐ 120VAC ☐ 12VDC					
	Test Personnel:	Yuriy Litvinov Yuriy divinor	<b>Date:</b> 12/05/2019				

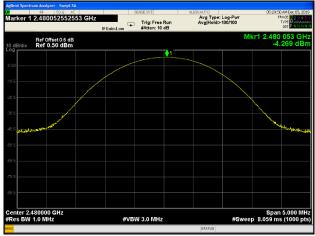
Note: EIRP (dBm) = Conducted Power (dBm) +Antenna Gain (dBi)= -3.6+1.15= -2.45dBm





**Low Channel** 

Mid Channel



**High Channel** 



4.3	<b>Maximum Power</b>	Maximum Power Spectral Density level						
Method:	Measurements was performed with modulated carrier at the highest power level at which the transmitter is intended to operate. The analyzer offset was adjusted to compensate for the attenuator and other losses.							
		Laboratory Ambient Temperature:	23°C					
		Relative Humidity:	48%					
		Atmospheric Pressure:	1011 mbars					
Refere	ence Standard(s):	<ul><li>☑ ANSI C63.10:2013</li><li>☑ FCC Part 15.247/RSS 247</li><li>☑ KDB 558074 D01</li></ul>	Measurement Point  ☐ Conducted ☐ Radiated at 3 meters					
F	requency Range:	☑ 2402.0 – 2480.0 MHz	PSD Results					
	PSD Limit:	8 dBm	-3.6 dBm					
	Nominal Voltage:	☐ 120VAC ☐ 11VDC						
	Test Personnel:	Yuriy Litvinov yuriy diwino	<b>Date:</b> 12/05/2019					





**PSD Low Channel** 

**PSD Mid Channel** 



**PSD High Channel** 

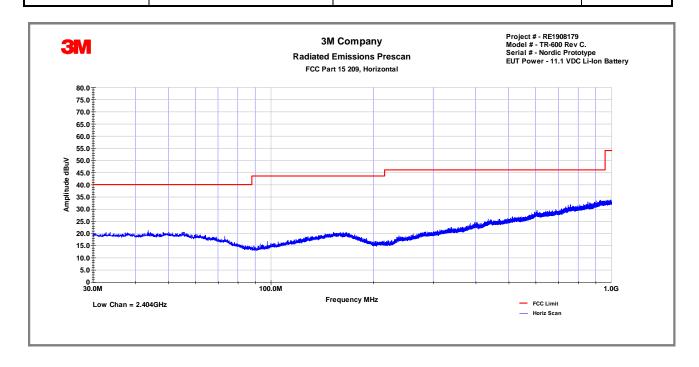


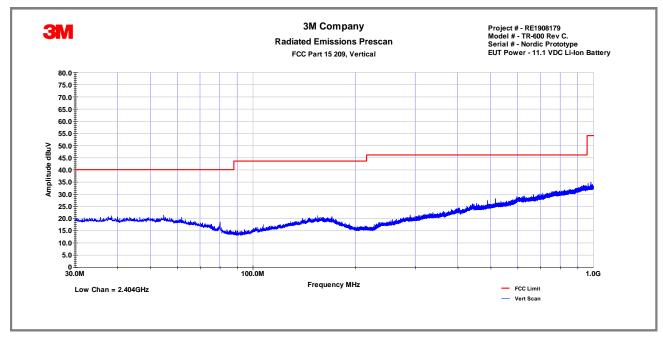
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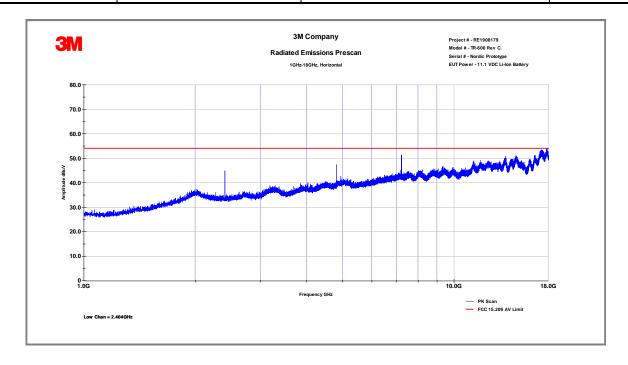
4.4	Radiated Emissions in r	Radiated Emissions in restricted band					
Method:	EUT was rotated through through the highest emission relative to the limit was used in making performed with external pread	rements were made in a 3-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4 standards. as rotated through three orthogonal axes to determine which attitude (orientation) and arrangement produces the temission relative to the limit; the attitude and device arrangement that produces the highest emission relative to it was used in making final radiated emission measurements. Spurious Radiated emissions measurements ware need with external preamp and a high pass filter. Final measurements were then performed by rotating the EUT 360° justing the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical a polarity, where applicable.					
		Laboratory	Ambient Tempera	ature:		23°C	
Tes	t Verification: 🛚		Relative Hum	nidity:		55%	
			Atmospheric Pres	sure:		1011 mb	ars
	Reference Standard(s):		2013, Section 11.1	2.1	Me	easurement	Distance
		<ul><li></li></ul>			☐ 3 Meters ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐		
	Frequency Range:	<ul><li>☑ 30 MHz to 1 GHz</li><li>☑ 1 GHz to 25 GHz</li></ul>					
	Nominal Voltage:	☐ 120VAC 🖾 1	1VDC				
	Test Personnel:	Keith Schwartz K	2:		<b>Date:</b> 11	/21/2019	
		Limit	ts -15.209				
	0.009-0.490		2400/F(KHz)		300	300	N/A
	0.490-1.705	24000/F(KHz)			30	30	N/A
	1.705-30	30			30	30	N/A
	30 to 88	40				3	pass
	88 to 216	43.5				3	pass
	216 to 960	46				3	pass
	Above 960		54			3	pass

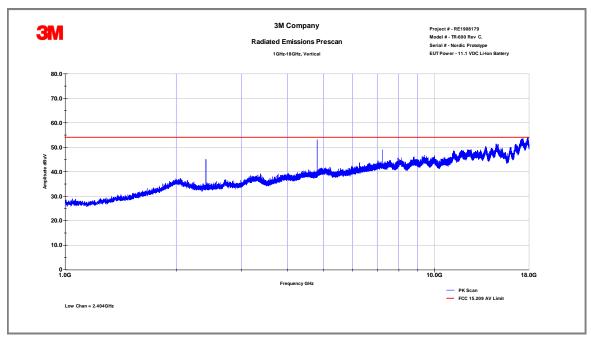
Modifications:	
	The lower limit applies at the transition frequency. An inverse proportionality factor of 20 dB per decade has been used to normalize the measured data to the specified distance for determining compliance
Neto	For emission in the restricted bands, the limit of 15.209 was used.
Note:	There are no emissions were detected in the restricted band within 30dB below 15.209 limit adjacent or nearby to 2400-2483.5MHz frequency band during operation at the high channel.
	No radiated spurious emissions were detected above 18GHz



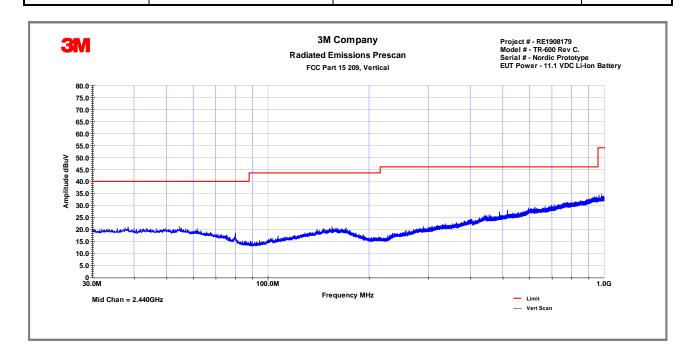


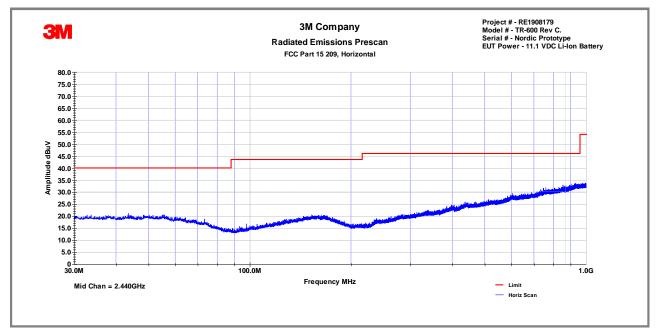
FCC Part 15.209 Radiated Emissions in restricted band - Low Channel



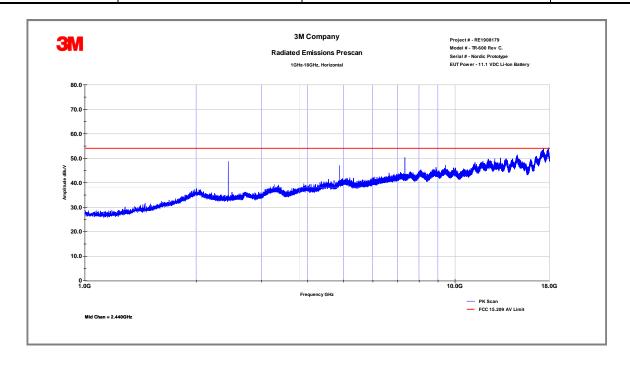


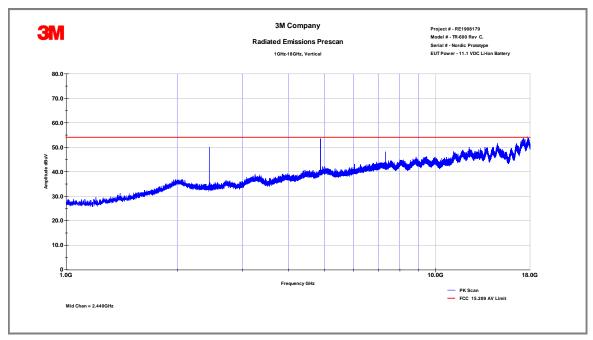
FCC Part 15.209 Radiated Emissions in restricted band - Low Channel



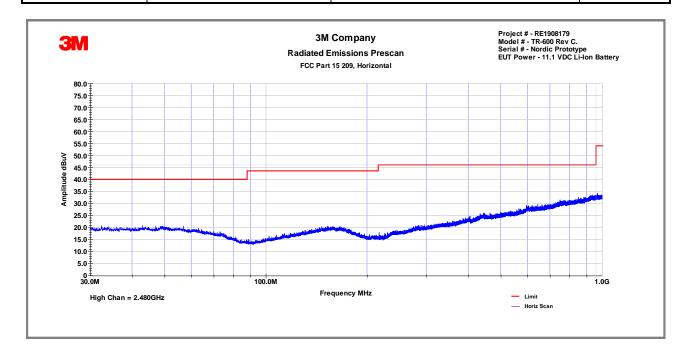


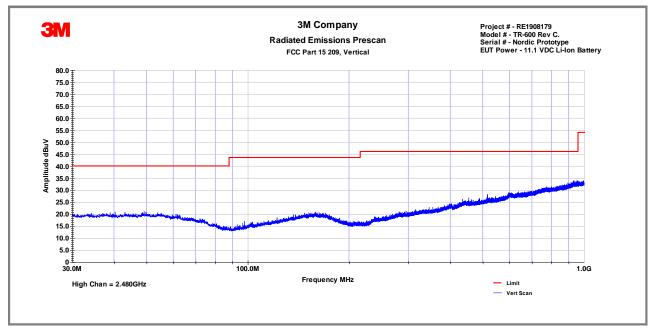
FCC Part 15.209 Radiated Emissions in restricted band - Mid Channel



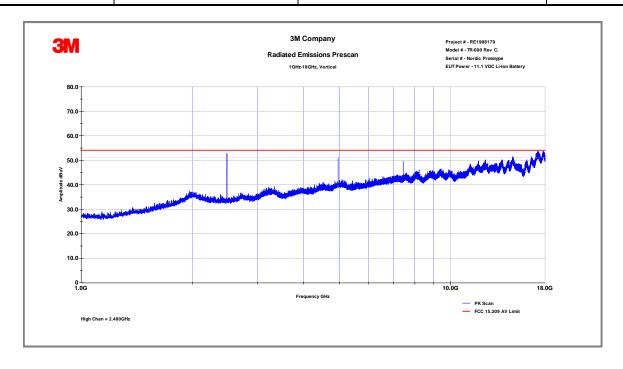


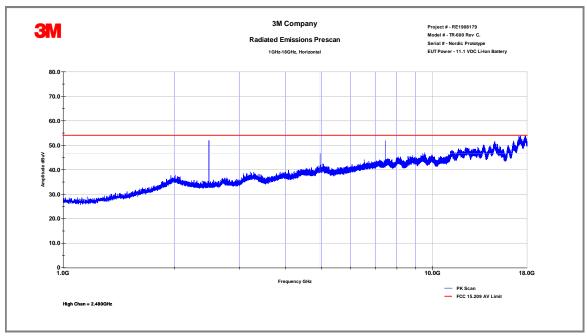
FCC Part 15.209 Radiated Emissions in restricted band - Mid Channel





FCC Part 15.209 Radiated Emissions in restricted band – High Channel





FCC Part 15.209 Radiated Emissions in restricted band – High Channel



### **Tables - Radiated Emissions in restricted band**

**3M EMC Laboratory** 

Pol	Frequency (MHz)	Peak dBµV/m	AVG dBµV/m	Total CF dB	Net Peak dBµV/m	Net AVE dBµV/m	PK Limit	AVE Limit	PK Margin dB	AVG Margin dB
V	4808.09	60.29	58.8	-6.29	54.00	52.46	74.00	54.00	-20.00	-1.54
Н	4808.09	55.70	53.1	-6.29	49.41	46.82	74.00	54.00	-24.59	-7.18
V	7212.01	53.47	50.0	-3.01	50.46	46.99	74.00	54.00	-23.54	-7.01
Н	7212.01	52.82	48.4	-3.01	49.81	45.37	74.00	54.00	-24.19	-8.63
V	9616.12	48.08	37.32	-1.07	47.01	36.25	74.00	54.00	-26.99	-17.75
Н	9616.12	47.41	47.41 36.94 -1.07 46.34 35.87 74.00 54.00 -27.66 -18.13							-18.13
	Net Reading (dBuV) = Reading (dBµV) + (Antenna with amp CF(dB)+Cable CF(dB))									
	Notes:  Low Channel									

Pol	Frequency (MHz)	Peak dBµV/m	AVG dBµV/m	Total CF dB	Net Peak dBµV/m	Net AVE dBµV/m	PK Limit	AVE Limit dBμV/m	PK Margin dB	AVG Margin dB
V	4880.03	60.02	58.5	-5.39	54.63	53.09	74.00	54.00	-19.37	-0.91
Н	4880.03	55.10	51.2	-5.39	49.71	45.78	74.00	54.00	-24.29	-8.22
V	7320.00	52.45	48.2	-3.20	49.25	45.01	74.00	54.00	-24.75	-8.99
Н	7320.00	52.57	48.2	-3.20	49.37	45.01	74.00	54.00	-24.63	-8.99
V	9760.00	47.21	47.21 37.1 -1.34 45.87 35.77 74.00 54.00 -28.13 -18							
Н	9760.00	47.82	47.82     38.4     -1.34     46.48     37.03     74.00     54.00     -27.52     -16.97							
	Net Reading (dBuV) = Reading (dB <sub>µ</sub> V) + (Antenna with amp CF(dB)+Cable CF(dB))									
	Mid Channel									

Pol	Frequency (MHz)	Peak dBµV/m	AVG dBµV/m	Total CF dB	Net Peak dBµV/m	Net AVE dBµV/m	PK Limit dBµV/m	AVE Limit	PK Margin dB	AVG Margin dB
V	4960.03	56.07	53.60	-5.16	50.91	48.44	74.00	54.00	-23.09	-5.56
Н	4960.03	54.66	51.31	-5.16	49.50	46.15	74.00	54.00	-24.50	-7.85
V	7440.00	53.28	49.77	-2.44	50.84	47.33	74.00	54.00	-23.16	-6.67
Н	7440.00	55.11	52.01	-2.44	52.67	49.57	74.00	54.00	-21.33	-4.43
V	9920.44	47.87	37.52	-0.60	47.27	36.92	74.00	54.00	-26.73	-17.08
Н	9920.44	47.87	47.87 37.76 -0.60 47.27 37.16 74.00 54.00 -26.73 -16.84							-16.84
	Net Reading (dBuV) = Reading (dBµV) + (Antenna with amp CF(dB)+Cable CF(dB))									
	Notes: High Channel									

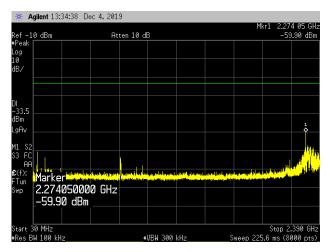


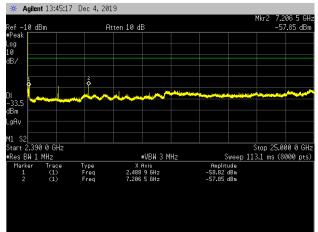
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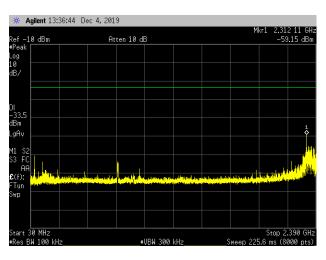
A.5       Radiated Emissions in non-restricted band         The measurements were made with transmitter set to transmit continuously low, medium and high channels.         Laboratory Ambient Temperature:       23°C         Relative Humidity:       48%         AMSI C63.10:2013       Measurement Point         Conducted         Radiated         FCC Part 15.247/RSS 247       Measurement Point       Conducted         Results:         Conducted       Results:         Conducted       Results:         Limit:       2-3.6 dBm       Results:         Limit:       2-23.6dBm (20dBc below Peak PSD level)       >51dBc         Nominal Voltage:       120VAC       11VDC         Test Personnel:       Yuriy Litvinov Juriy Juriy       Date: 12/04/2019									
Laboratory Ambient Temperature:  Relative Humidity:  Atmospheric Pressure:  1011 mbars  ANSI C63.10:2013  FCC Part 15.247/RSS 247  Frequency Range:  23°C  Measurement Point  Conducted Radiated  PSD Level in 100KHz:  3.6 dBm  Results:  Limit:  -23.6dBm (20dBc below Peak PSD level)  Nominal Voltage:  120VAC ☑ 11VDC	4.5	Radiated Emiss	adiated Emissions in non-restricted band						
Reference Standard(s):  Reference Standard(s):  Reference Standard(s):  Reference Standard(s):  Reference Standard(s):  FCC Part 15.247/RSS 247  Conducted Radiated  Frequency Range:  2402.0-2480.0 MHz  PSD Level in 100KHz:  -3.6 dBm  Results:  Limit:  -23.6dBm (20dBc below Peak PSD level)  Nominal Voltage:  1011 mbars  Measurement Point Results:  >51dBc	Method:	d: The measurements were made with transmitter set to transmit continuously low, medium and high channels.							
Atmospheric Pressure: 1011 mbars  Reference Standard(s):			Laboratory Ambient Temperature:	23°C					
Reference Standard(s):  Standard(s):  FCC Part 15.247/RSS 247  Conducted Radiated  Frequency Range:  2402.0-2480.0 MHz  PSD Level in 100KHz:  3-3.6 dBm  Results:  Limit:  -23.6dBm (20dBc below Peak PSD level)  Nominal Voltage:  120VAC  11VDC			Relative Humidity:	48%					
Reference Standard(s): ☐ FCC Part 15.247/RSS 247 Measurement Point   ☐ Conducted ☐ Radiated    PSD Level in 100KHz: ☐ -3.6 dBm  Results:  Limit: ☐ -23.6dBm (20dBc below Peak PSD level)  Nominal Voltage: ☐ 120VAC ☐ 11VDC  Measurement Point ☐ Conducted ☐ Radiated ☐ Radiated ☐ Standard(s): ☐ 120VAC ☐ 11VDC			Atmospheric Pressure:	1011 mbars					
PSD Level in 100KHz:         □ -3.6 dBm         Results:           Limit:         □ -23.6dBm (20dBc below Peak PSD level)         >51dBc           Nominal Voltage:         □ 120VAC         □ 11VDC	Reference Standard(s):								
Limit:	Fre	equency Range:	⊠ 2402.0-2480.0 MHz						
Nominal Voltage: ☐ 120VAC ☑ 11VDC	PSD L	_evel in 100KHz:	☑ -3.6 dBm	Results:					
¥		Limit:	☐ -23.6dBm (20dBc below Peak PSD level)	>51dBc					
Test Personnel: Yuriy Litvinov Yuriy durino Date: 12/04/2019	N	Iominal Voltage:	☐ 120VAC ☐ 11VDC						
		Test Personnel:	Yuriy Litvinov Yuriy ditribut	<b>Date:</b> 12/04/2019					
Note:		Note:							

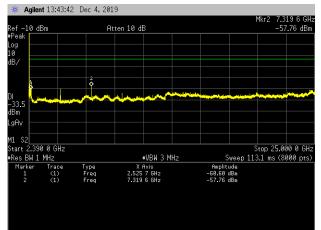
Note:		



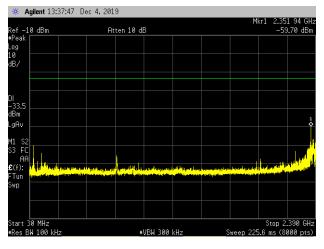


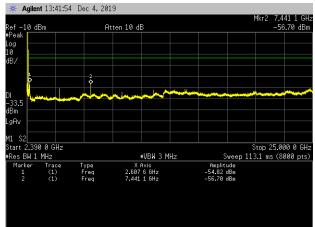
#### **Conducted Spurious - Low Channel**





#### **Conducted Spurious - Mid Channel**





**Conducted Spurious – High Channel** 



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4.6	Band-Edge Co	ompliance	mpliance						
Method:	The measureme channels.	ents were made with transmitter set to transmit	continuously with modulated signal at low and high						
		Laboratory Ambient Temperature:	23°C						
		Relative Humidity:	48%						
		Atmospheric Pressure:	1011 mbars						
Referenc	e Standard(s):	<ul><li>☒ ANSI C63.10:2013, Section 11.13.2</li><li>☒ FCC Part 15.247/RSS 247</li><li>☒</li></ul>	Measurement Point  ☐ Conducted ☐ Radiated						
Fred	quency Range:	☑ 2402.0-2480.0 MHz	Results						
	Limit:	⊠ >20dBc	Low Ch., 2402 MHz > 44.5dBc High Ch., 2480 MHz > 57dBc						
No	minal Voltage:	☐ 120VAC ☐ 11VDC							
To	est Personnel:	Yuriy Litvinov ymy divinor	<b>Date</b> : 12/05/2019						





Appendix App

Band Edge - Low Channel Center Freq. 2.400GHz

Band Edge - High Channel Center Freq. 2.4835GHz



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4.7	Conducte	ucted Emissions Data				
Method:	The AMN was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane. This distance was between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the AMN. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN.					
	All power was connected to the system through Artificial Mains Network (AMN). All tested telecommunications lines were connected to an Asymmetric Artificial Network (AAN) and conducted voltage measurements on telecommunications lines were made at the output of the ISN. Where an AAN was not appropriate or available measurements were made using a Capacitive Voltage Probe.					
Test Verification: □			Laboratory Ambient Temperature:			
			Relative Humidity:			
			Atmospheric Pressure:			
Reference Standard(s):		☐ RSS GEN/FCC 15.207 ☐ ANSI C63.4:2014 ☐ ANSI C63.10:2013		Measurement Point  ☐ Mains ☐ Telecommunication ports ☐		
		Nominal Voltage:	☐ 120VAC ☐ 230VAC ☐			
Test Personnel:				Date:		
	Limits 15.207 – AC Mains					
0.15 t	o 0.50	66 to 56	56 to 46	N/A	AMN	
0.50 to 5		56	46	N/A	AMN	
5 to	5 to 30 60		50	N/A	AMN	
Modific	ations:					
No	te:					



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4.8 RF Exposure Evaluation	RF Exposure Evaluation			
Reference Standard(s)	<ul><li></li></ul>	<ul><li></li></ul>		
Frequency Range	<ul><li></li></ul>			
Antenna Separation Distance	>10mm			
BT Antenna Gain (maximum)	1.15dBi (PCB trace)			
BLE Maximum Output Power a antenna terminal				
RFID Maximum Power	M24LR RF Operating Current 0.0002A (50 Ohm load) The power calculation is P = 0.0002A <sup>2</sup> x 50 Ohm = 0.2mW			
RF Exposure Conditions	Belt-worn			
Power Density	N/A			
SAR Test Exclusion Threshold				
FCC Part 2.1093	19mW@ >10mm @2.45GHz			
RSS 102, Issue 5, 2015	7mW@ >10mm @2.45GHz			
FCC Part 2.1093	308mW@ < 50mm @10-50MHz			
RSS 102, Issue 5, 2015	71mW@ <5mm @<300MHz			

Nede	
Note:	



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5.0	Test Equipment					
Test Equipment Used						
Description	Manufacturer	Model	Identifier	Last Cal. Date	Check	
Biconilog Antenna	Schaffner	CBL6112B	27491	10/20/2019	$\boxtimes$	
Horn Antenna	A.H. Systems	SAS 571	1010	10/20/2019	$\boxtimes$	
Loop Antenna	A.H. Systems	EHA-51B	1213E	10/20/2019		
EMI Receiver	Rohde & Schwarz	ESW26	101412	03/11/2019	$\boxtimes$	
Signal Analyzer	Agilent	N9000A	MY53031040	10/20/2019		
EMI Receiver	Agilent	E4448A	1530975	10/20/2019	$\boxtimes$	
LISN	TESEQ	NNB51	1130	10/20/2019		
Coaxial Cable	Insulated Wire	2803	CBL2039	10/20/2019	$\boxtimes$	
EMC Software	ETS-Lindgren	TILE 7		N/A	$\boxtimes$	
Equipment Calibration Interval:						

6.0	Report revision history				
Revisio	n Level	Date	Report Number	Notes	
0		0311/2020	RE1908179-1	Original Issue	