

# EMC TEST REPORT



**Standard(s):**

**47 CFR FCC Part 15.247  
RSS 247, Issue 3, 2023**

**FCC ID: DGFPD201846  
IC: 458A-PSD201846**

**Product: 3M™ Scott™ X3 Pak Alert SE7 Distress Alarm System  
Model(s): 201846-01**

**Company Name:  
3M Company**

**Address:  
Fire & SCBA Solutions  
4320 Goldmine Road, Monroe, NC 28110**

**Report Number: HRE202406471-1  
Report Issue Date: April 8, 2025**

**Report Prepared by:**

**Signature:**   
**Yuriy Litvinov  
Lead EMC Engineer**

**Tested by:  
3M Company, Hardgoods Regulatory Engineering Laboratory  
410 E. Fillmore Avenue, Building 76  
St. Paul, Minnesota 55107-1208, USA**



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<b>3M</b>	<b>3M EMC Laboratory</b>	<b>Report Number:</b> HRE20240671-1 <b>Date:</b> April 8, 2025	Page 3 of 21
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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.

	Requirement – Test	Test Description	Result	Comments
4.1	FCC Part 15.247(a)(2)/ RSS-247(5.2(a))/RSS-Gen (6.7)	DTS Bandwidth	<b>pass</b>	
4.2	FCC Part 15.247(b)(3)/ RSS-247(5.4(d))	Maximum Peak Conducted Output Power	<b>pass</b>	
4.3	FCC Part 15.247(e)/ RSS-247(5.2(b))	Maximum Power Spectral Density level	<b>pass</b>	
4.4	FCC Part 15.209 RSS-Gen, 8.9	Radiated Emissions in restricted band	<b>pass</b>	See note
4.5	FCC Part 15.247(d)/ RSS-247(5.5)	Radiated Emissions in non-restricted band	<b>pass</b>	
4.6	FCC Part 15.247(d)(1)/ RSS-247(5.5)	DTS Band-edge Emissions Measurements	<b>pass</b>	
4.7	FCC Part 15.207/ RSS-Gen (8.8)	Conducted Emissions	<b>N/A</b>	
4.8	FCC Part 15.247(i)/ RSS 102 Issue 5	RF Exposure Compliance	<b>pass</b>	

<b>Note:</b>	Device contains certified BLE Module FCC ID: SQGBL5340 and IC:3147A-BL5340. Limited Spurious Emissions test was performed to verify BLE module integration.
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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
RF frequency	$\pm 3 \times 10^{-8}$
RF power, conducted	1.4 dB
RF Power Spectral Density	0.96 dB

## 1.2 Test Facility

<b>Test Facility Accreditations:</b>	ISO/IEC 17025:2017, NVLAP LAB CODE: 200033-0
	FCC US502
	ISED Canada CAB identifier: US0012



## 2.0 Equipment Description

2.1	Equipment Under Test			
Description:	Sensor Module Assembly is an electronics control module for battery power, audio (alarm tones), the Pak-Tracker radio transmitter, data logging, wireless communications. It is installed on the SCBA back frame. The Sensor Module consisting of a Pak-Tracker Transmitter, which is integrated into the PAK- ALERT SE + distress alarm and BLE radio transceiver is provided as a tunnel for accessing stored data concerning PAK operation.			
Model(s):	201846-01			
Serial number:	N/A			
3M Division:	Personal Safety			
Modifications and Special Measures:	none			
Frequency Range:	Pak-Tracker: 2425.00 MHz BLE: 2402.0-2480.0 MHz			
Channel No.:	Pak-Tracker: 1/ BLE:39			
Modulation Type:	GFSK			
FCC Classification:	Digital Transmission System (DTS)			
Pak-Tracker Output Power Conducted:	20.5dBm (112.2mW)			
Antenna Type and Antenna Assembly Gain:	<input checked="" type="checkbox"/> External	<input type="checkbox"/> Integral PCB Antenna	<input type="checkbox"/> Dedicated	
	<input checked="" type="checkbox"/> 2.83dBi	<input type="checkbox"/> Declared by the Manufacturer	<input checked="" type="checkbox"/> Measured	
Test Deviations or Exclusions	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Rated Power:	Voltage:	<input type="checkbox"/> 120VAC	<input type="checkbox"/> 230VAC	<input checked="" type="checkbox"/> 9VDC
	Phase:	<input type="checkbox"/> 1ph	<input type="checkbox"/> 3ph	<input checked="" type="checkbox"/> 6 (AA) batteries
	Frequency:	<input type="checkbox"/> 50Hz	<input type="checkbox"/> 60Hz	
	Current:	N/A		
Test Dates:	03/10-03/13/2025			
Received Date:	03/07/2025			
Received Conditions:	<input type="checkbox"/> Poor	<input checked="" type="checkbox"/> Good		
	<input checked="" type="checkbox"/> Prototype	<input type="checkbox"/> Production		

### 3.0 EUT Configuration

#### 3.1 System Configuration

No.	Product Type	Manufacturer	Model	Comments
1	EUT	3M	201846-01	
2	PC	Raspberry Pi		Support Equipment
3				

#### 3.2 Input/Output Ports of EUT

No.	Description	Type	Comments
1	Pressure Transducer	12 pin	Bulkhead Mount Circular Connector
2	Sensor Module, Console	11 pin	Bulkhead Mount Circular Connector

#### 3.3 Cables

No.	Description	Type	Length	Shielding	Comments
1	Control Cables	Twisted Pair	1m	Yes	
2					

#### 3.4 Measurement Arrangements of EUT

	Intended Operational Arrangement(s)	Comments
<input checked="" type="checkbox"/>	Table-top only	
<input type="checkbox"/>	Floor-standing only	
<input type="checkbox"/>	Floor-standing or table-top	
<input checked="" type="checkbox"/>	Other	Body-worn

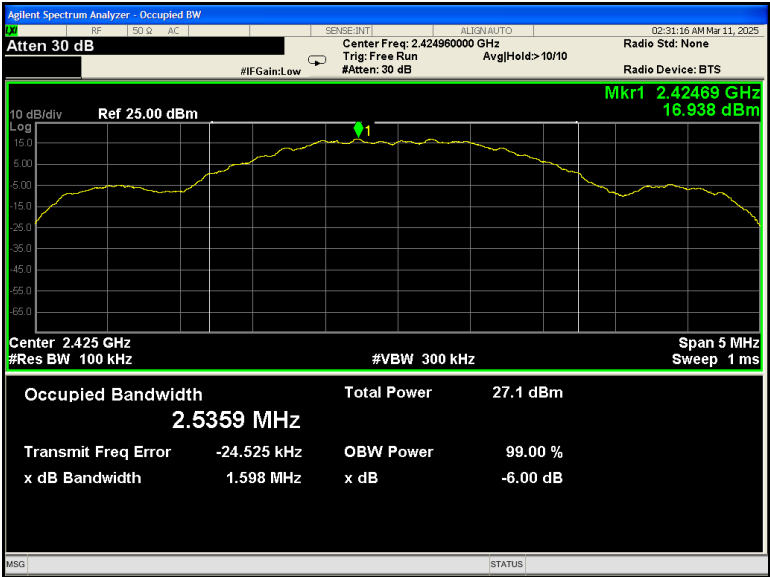
#### 3.5 Exercising of EUT and Interfaces

No.	Mode of Operation
1	Continues transmission of modulated and CW signals at 2425.0MHz
2	Bluetooth test set software was used to transmit at rated power and data rate.
3	Device programming using "FCC_SENSOR_MOD_TEST" software provided by the manufacturer for continuous transmission of modulated carrier at maximum rated RF output power and Duty Cycle.

#### 4.0 Test Conditions and Results

4.1	DTS Bandwidth		
	Laboratory Ambient Temperature:	23°C	
	Relative Humidity:	48%	
	Atmospheric Pressure:	1011 mbars	
Reference Standard(s):	<input checked="" type="checkbox"/> ANSI C63.10:2020, Section 11.8.2 <input checked="" type="checkbox"/> FCC Part 15.247/RSS 247 <input checked="" type="checkbox"/> KDB 558074	<b>Measurement Point</b> <input checked="" type="checkbox"/> Conducted <input type="checkbox"/> Radiated	
Frequency Range:	<input checked="" type="checkbox"/> 2425.0MHz	RBW = 100KHz VBW ≥ 3 x RBW	
Nominal Voltage:	<input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 9VDC		
Test Personnel:	Yuriy Litvinov <i>Yuriy Litvinov</i>		Date: 03/11/2025

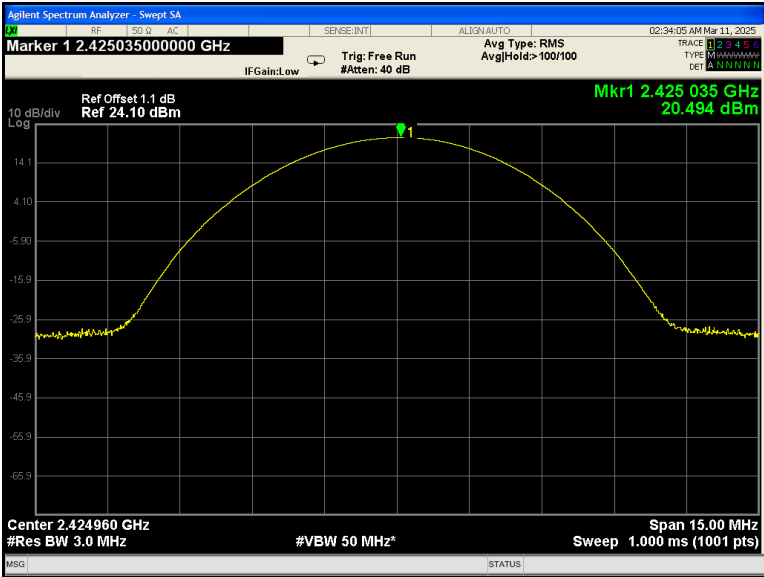
Frequency (MHz)	Data Rate	99% dB Bandwidth (KHz)	6 dB Bandwidth (KHz)	6dB OBW Limit (KHz)	Results
2425	N/A	2536	1598	> 500	pass



**OBW**

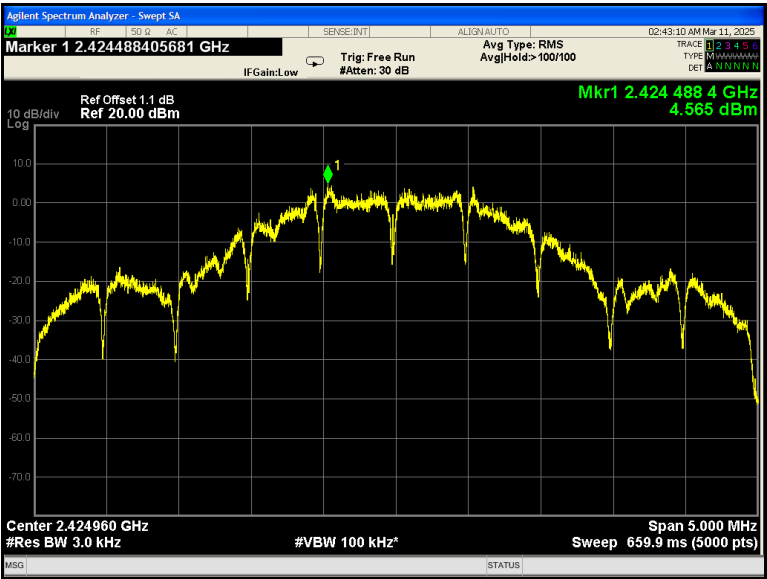
4.2 Maximum Output Power	
<b>Method:</b>	Measurements was performed with CW carrier at the highest power level at which the transmitter is intended to operate. The analyzer offset was adjusted to compensate for the attenuator and other losses.
	Laboratory Ambient Temperature: 23°C
	Relative Humidity: 48%
	Atmospheric Pressure: 1011 mbars
<b>Reference Standard(s):</b>	<input checked="" type="checkbox"/> ANSI C63.10:2020, Section 11.9 <input checked="" type="checkbox"/> FCC Part 15.247/RSS 247 <input checked="" type="checkbox"/> KDB 558074
<b>Frequency Range:</b>	<input checked="" type="checkbox"/> 2425.0MHz
<b>Antenna Gain:</b>	2.7dBi
<b>Limit:</b>	30 dBm
<b>Nominal Voltage:</b>	<input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 9VDC
<b>Test Personnel:</b>	Yuriy Litvinov <i>Yuriy Litvinov</i>
<b>Date:</b> 03/11/2025	

<b>Note:</b>	EIRP (dBm) = Conducted Power (dBm) +Antenna Gain (dBi)= 20.5+2.83=23.33dBm
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**Conducted RF Power**

4.3	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
Reference Standard(s):	<input checked="" type="checkbox"/> ANSI C63.10:2020, Section 11.10.2 <input checked="" type="checkbox"/> FCC Part 15.247/RSS 247 <input checked="" type="checkbox"/> KDB 558074	<b>Measurement Point</b> <input checked="" type="checkbox"/> Conducted <input type="checkbox"/> Radiated	
Frequency Range:	<input checked="" type="checkbox"/> 2425.0 MHz	PSD Results	
PSD Limit:	8 dBm in any 3KHz band		4.6dBm
Nominal Voltage:	<input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 9VDC		
Test Personnel:	Yuriy Litvinov <i>Yuriy Litvinov</i>		Date: 03/11/2025



PSD



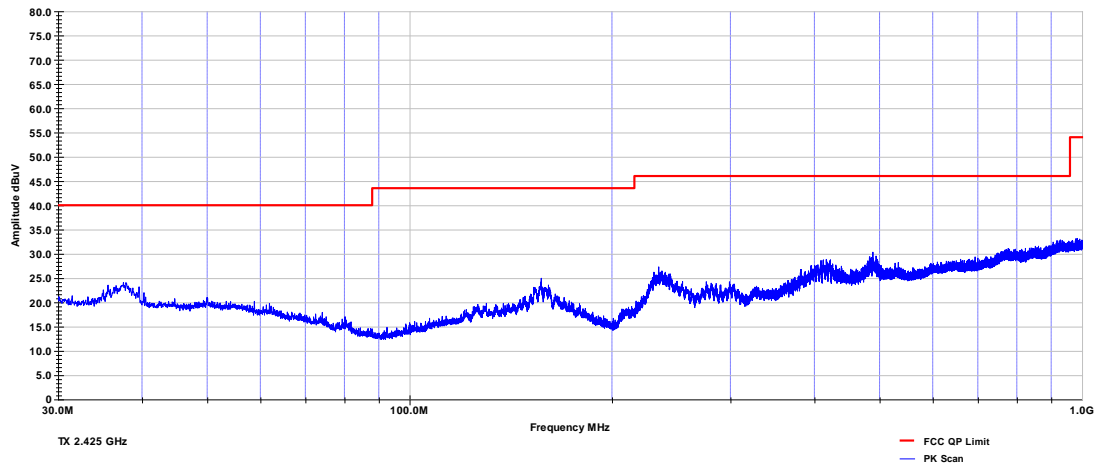
<b>4.4</b>	<b>Radiated Emissions in restricted band</b>					
<b>Method:</b>	Measurements were made in a 3-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4 standards. EUT was rotated through three orthogonal axes to determine which attitude (orientation) and arrangement produces the highest emission relative to the limit; the attitude and device arrangement that produces the highest emission relative to the limit was used in making final radiated emission measurements. Spurious Radiated emissions measurements were performed with external preamp and a high pass filter. Final measurements were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.					
<b>Test Verification:</b> <input checked="" type="checkbox"/>		Laboratory Ambient Temperature:		23°C		
		Relative Humidity:		55%		
		Atmospheric Pressure:		1011 mbars		
<b>Reference Standard(s):</b>		<input checked="" type="checkbox"/> ANSI C63.10:2020, Section 11.12.1 <input checked="" type="checkbox"/> FCC Part 15.205/15.209/RSS Gen (8.9) <input checked="" type="checkbox"/> KDB 558074		<b>Measurement Distance</b>		
				<input checked="" type="checkbox"/> 3 Meters <input type="checkbox"/> <span style="background-color: #cccccc; display: inline-block; width: 40px; height: 15px;"></span>		
<b>Frequency Range:</b>		<input checked="" type="checkbox"/> 30 MHz to 1 GHz		RBW = 100KHz, VBW ≥ 3 x RBW		
		<input checked="" type="checkbox"/> 1 GHz to 25 GHz		RBW = 1MHz, VBW ≥ 3 x RBW		
<b>Nominal Voltage:</b>		<input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 9VDC				
<b>Test Personnel:</b>		Keith Schwartz <i>KS</i>		<b>Date:</b> 03/12/2025		
<b>Limits –15.209 and RSS Gen</b>						
Frequency (MHz)		Limit dB (µV/m)			Distance	Results
		Quasi-Peak	Average	Peak		
0.009-0.490			2400/F(KHz)		300	N/A
0.490-1.705		24000/F(KHz)			30	N/A
1.705-30		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	74	3	pass

<b>Modifications:</b>	<span style="background-color: #cccccc; display: inline-block; width: 100px; height: 15px;"></span>
<b>Note:</b>	<p>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</p> <p>For emission in the restricted bands, the limit of 15.209 was used.</p> <p>There are no emissions were detected in the 15.205 restricted band within 30dB below 15.209 limit adjacent or nearby to 2400-2483.5MHz frequency band during operation at the high channel.</p> <p>No radiated spurious emissions were detected above 18GHz</p>



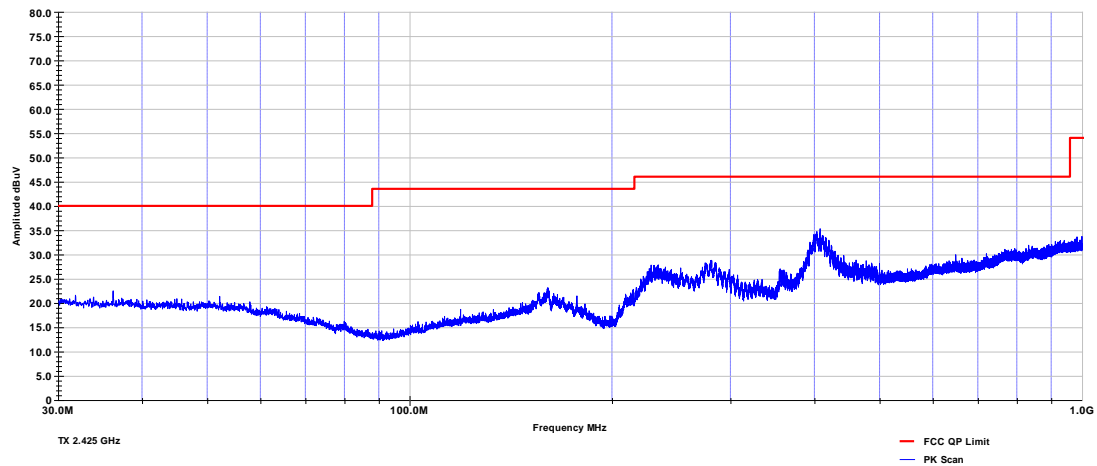
3M Company  
Radiated Emissions Pre-scan  
FCC Part 15, Class B, Vertical

Project # - HRE202406471  
Model # - X3 Pak Alert SE7  
Serial # - Prototype  
EUT Power - Qty (6) 1.5 VDC Batteries

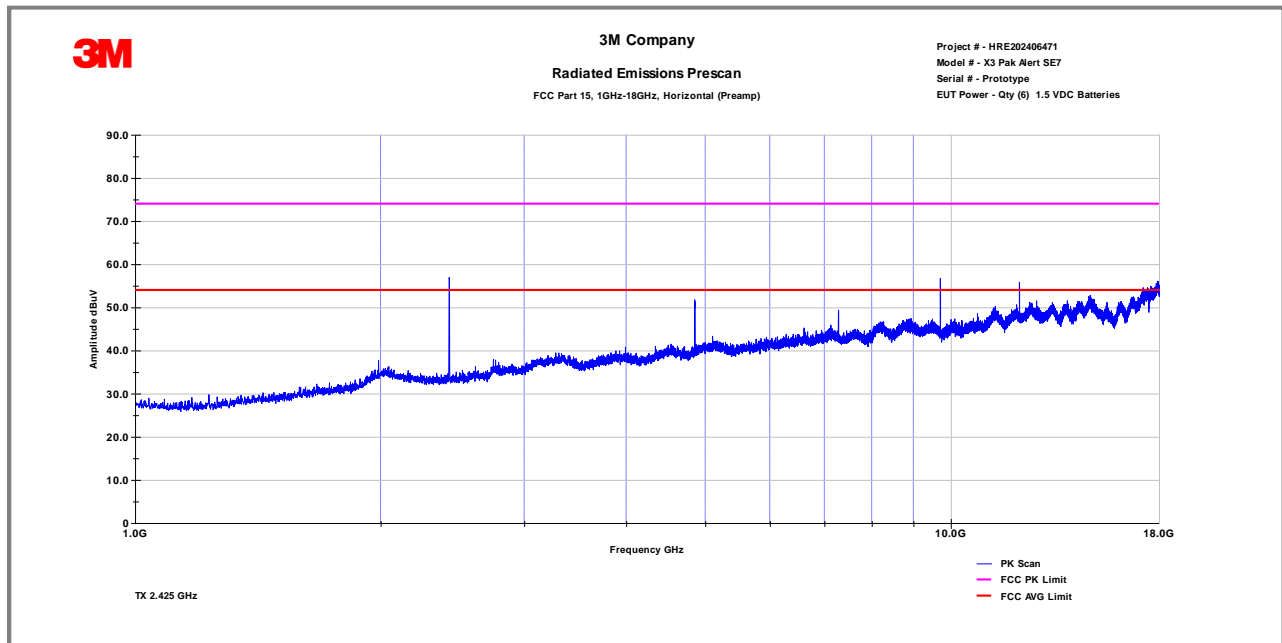
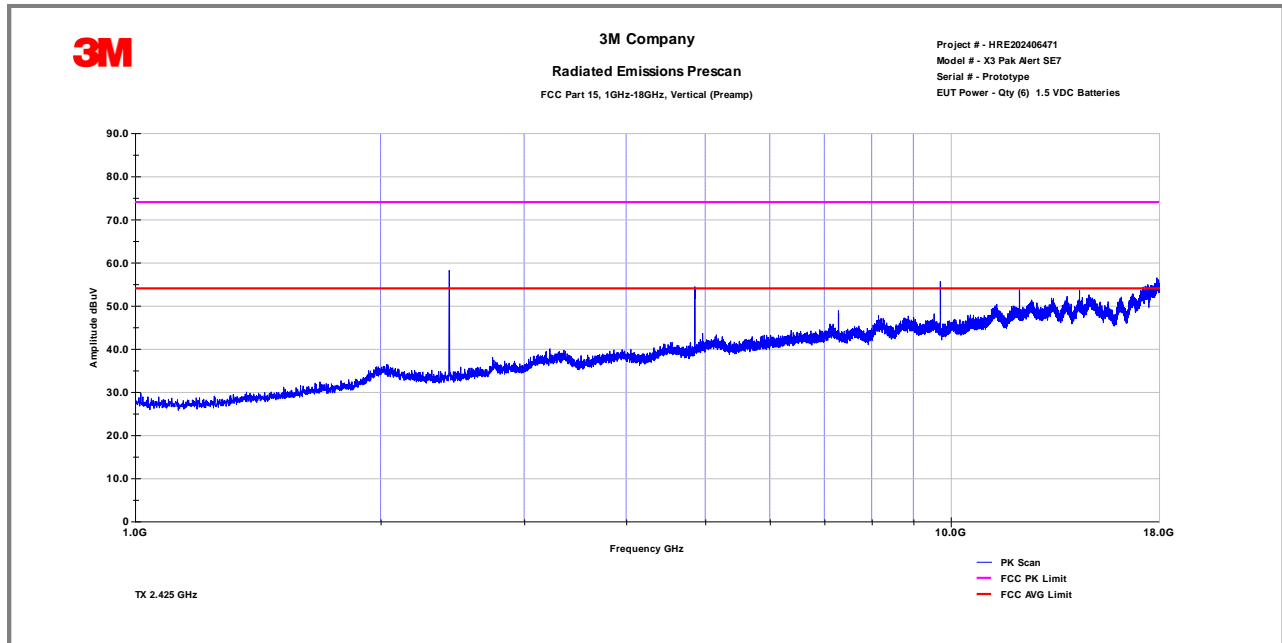


3M Company  
Radiated Emissions Pre-scan  
FCC Part 15, Class B, Horizontal

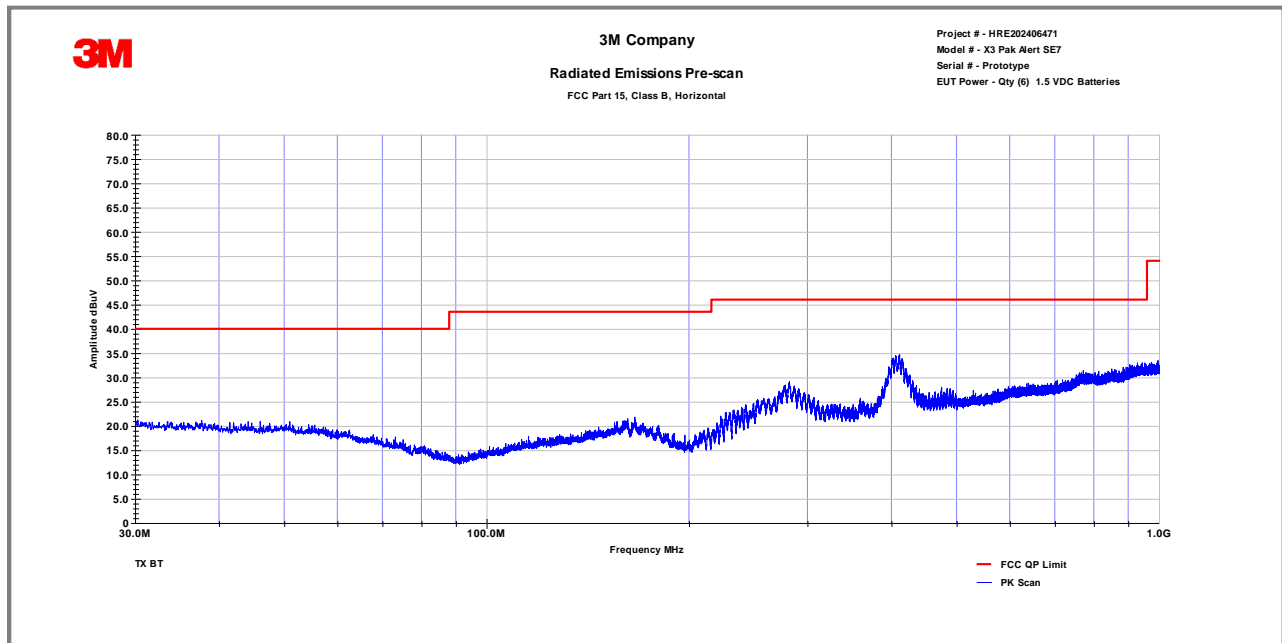
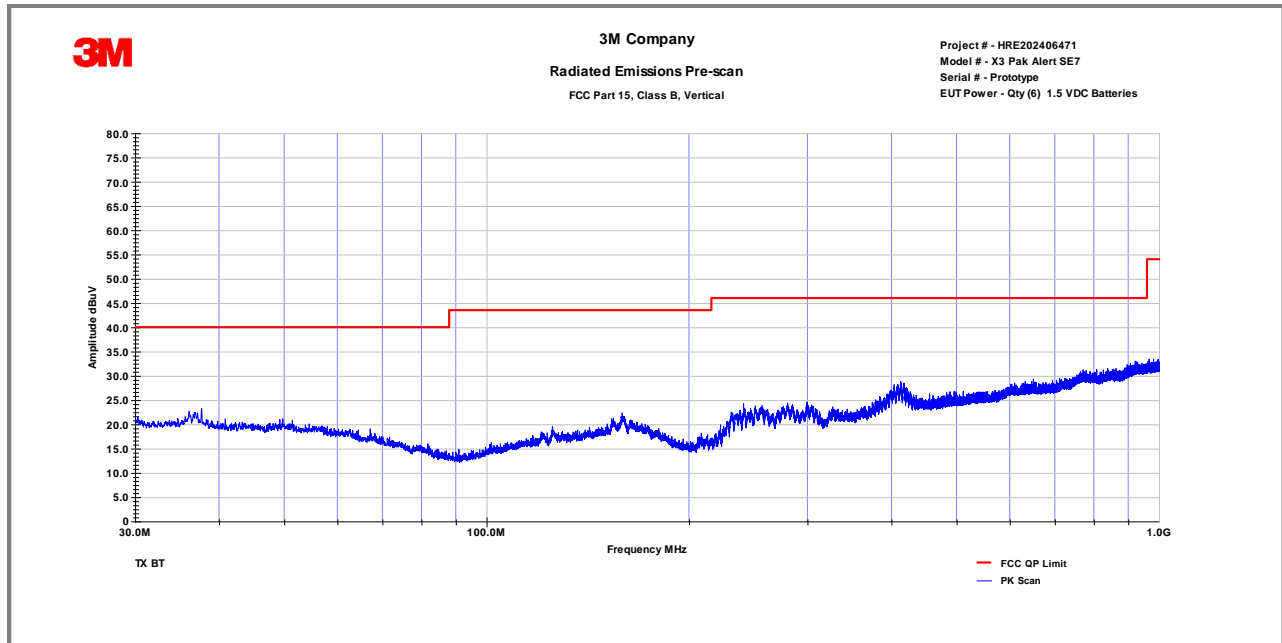
Project # - HRE202406471  
Model # - X3 Pak Alert SE7  
Serial # - Prototype  
EUT Power - Qty (6) 1.5 VDC Batteries



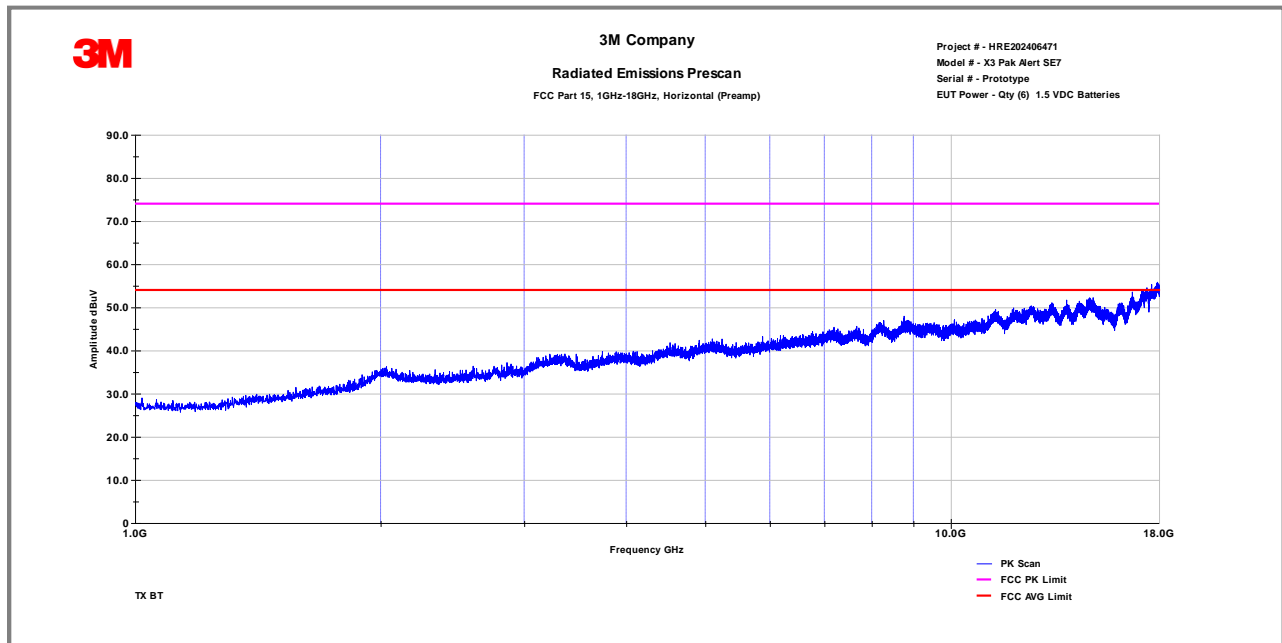
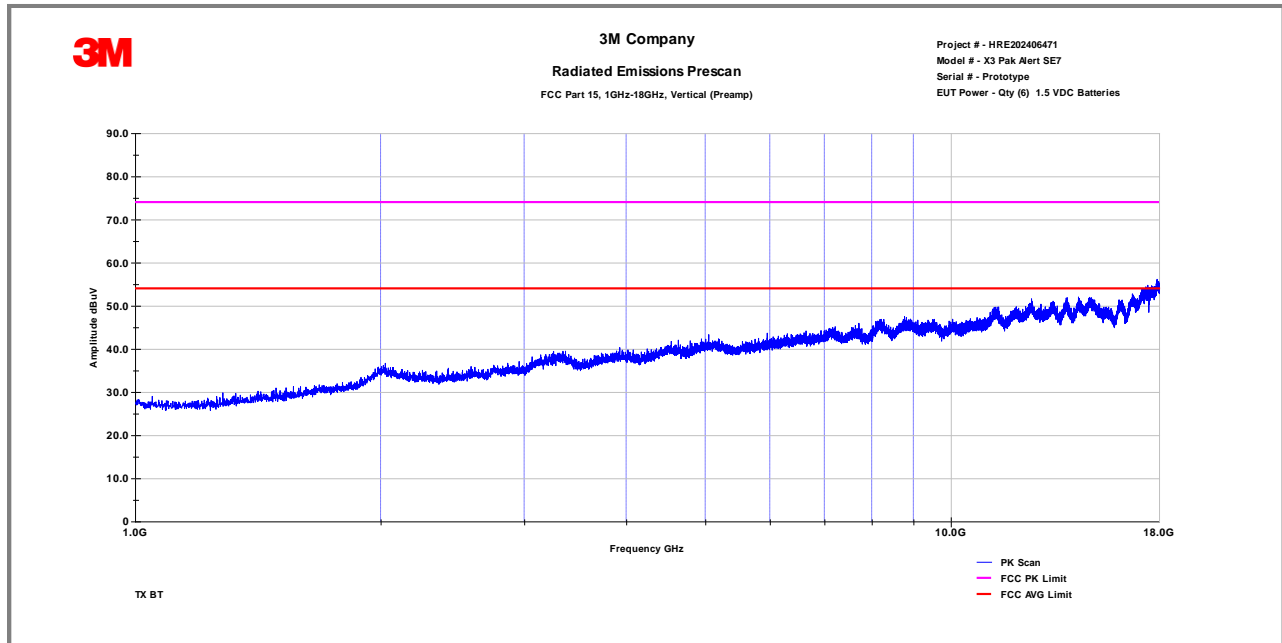
FCC Part 15.209 Radiated Emissions in restricted band – Pak-Tracker 2425.0MHz



FCC Part 15.209 Radiated Emissions in restricted band – Pak-Tracker 2425.0MHz



FCC Part 15.209 Radiated Emissions in restricted band – BLE Verification



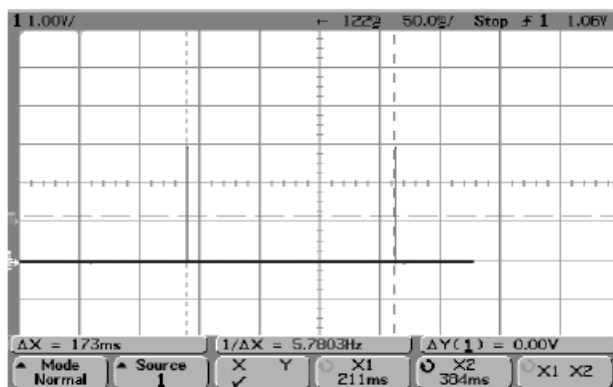
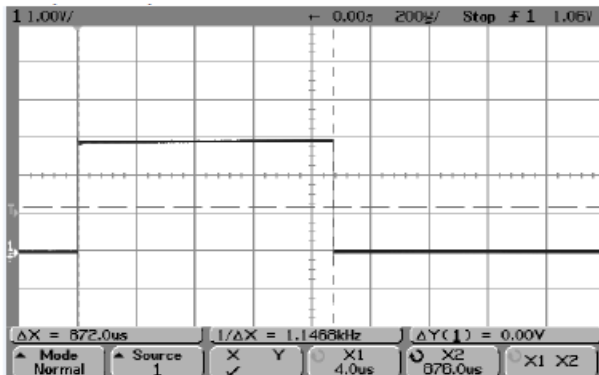
FCC Part 15.209 Radiated Emissions in restricted band – BLE Verification

### Tables - Radiated Emissions in restricted band

Frequency (MHz)	Pol.	QP Reading dBμV/m	Total CF dB	Net at 3 m dBμV/m	Limit (dBμV/m)	Margin dB
38.09	H	3.3	17.1	20.4	40	-19.6
155.84	V	2.1	18.1	20.2	43.5	-23.3
233.96	H	7.1	15.8	22.9	46	-23.1
280.31	H	4.8	18	22.8	46	-23.2
408.17	H	6.6	21.1	27.6	46	-18.4
487.46	H	2.8	23.1	25.8	46	-20.2
<b>Notes:</b>	Net Reading (dBuV) = Reading (dBμV) + Antenna CF(dB)+Cable CF(dB) – Amp Gain(dB) <b>Pak Tracker 2425.0MHz</b>					

[illegible]

### Duty Cycle Correction factor



### Pak-Tracker

Per theory of operation the device operates in a packet mode only. Each packet is 872  $\mu$ s long and is repeated at a rate of 4 times per second. The worst case one packet over 100ms period.

Duty Cycle = Time On/ 100ms

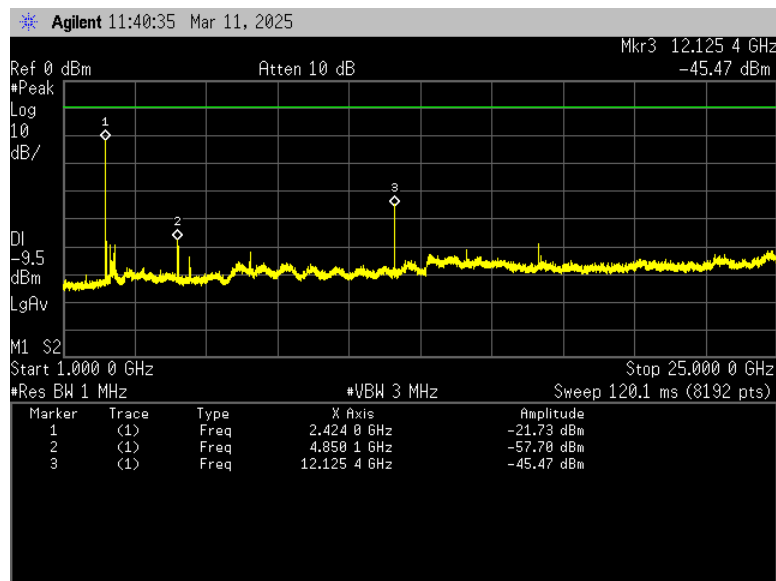
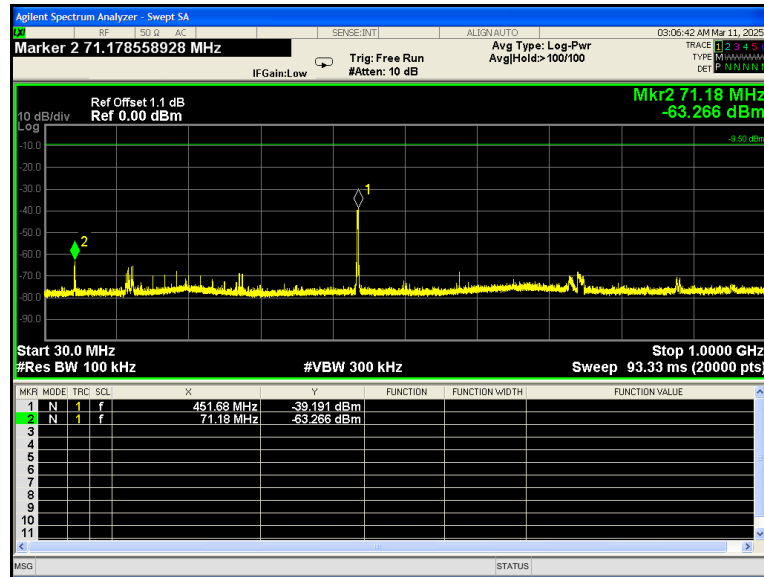
$0.872\text{ms}/100\text{ms} = 0.00872$

$20\log(0.0087) = -41.2\text{dB}$ , which was be applied to the Peak measurement for a corrected Average value

4.5	Radiated Emissions in non-restricted band		
Method:	The measurements were made with transmitter set to transmit continuously.		
		Laboratory Ambient Temperature:	23°C
		Relative Humidity:	48%
		Atmospheric Pressure:	1011 mbars
Reference Standard(s):	<input checked="" type="checkbox"/> ANSI C63.10:2020, Section 11.11 <input checked="" type="checkbox"/> FCC Part 15.247/RSS 247 <input checked="" type="checkbox"/> KDB 558074	<b>Measurement Point</b> <input checked="" type="checkbox"/> Conducted <input type="checkbox"/> Radiated	
Frequency Range:	<input checked="" type="checkbox"/> 2425.0 MHz		
In-band power in 100KHz:	<input checked="" type="checkbox"/> 20.5dBm	Results:	
Limit:	<input checked="" type="checkbox"/> -9.5dBm (30dBc below in-band power)	>39dBc	
Nominal Voltage: <input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 9VDC			
Test Personnel:	Yuriy Litvinov <i>Yuriy Litvinov</i>		Date: 03/11/2025

Note:	
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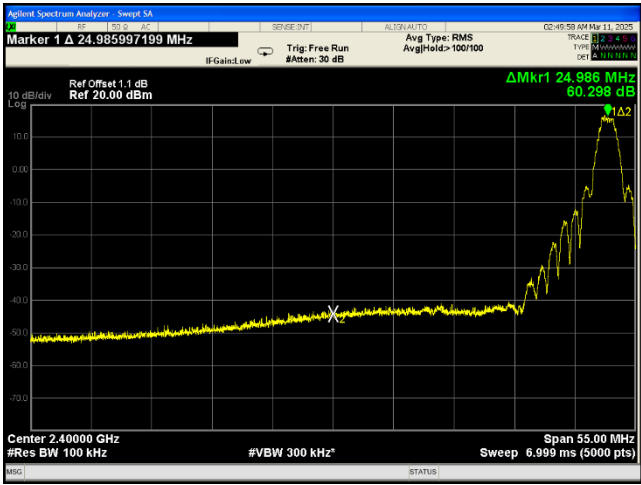




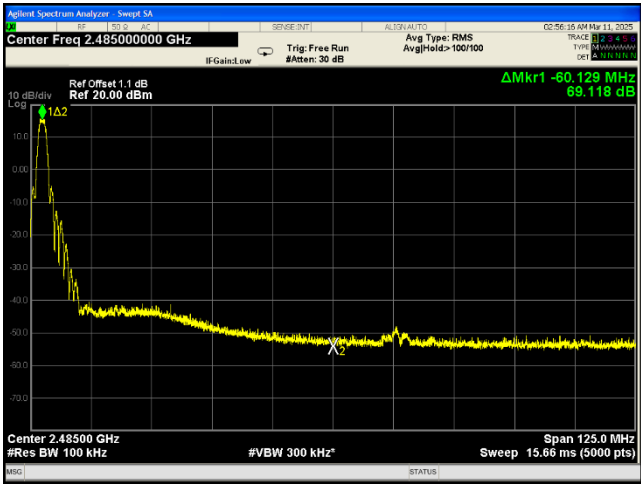
Conducted Spurious – Pack Tracker 2425.0 MHz

4.6	Band-Edge Compliance		
Method:	The measurements were made with transmitter set to transmit continuously with modulated signal at low and high channels.		
	Laboratory Ambient Temperature:	23°C	
	Relative Humidity:	48%	
	Atmospheric Pressure:	1011 mbars	
Reference Standard(s):	<input checked="" type="checkbox"/> ANSI C63.10:2020, Section 11.13.2 <input checked="" type="checkbox"/> FCC Part 15.247/RSS 247 <input checked="" type="checkbox"/> KDB 558074	<b>Measurement Point</b> <input checked="" type="checkbox"/> Conducted <input type="checkbox"/> Radiated	
Frequency Range:	<input checked="" type="checkbox"/> 2425.0MHz	Results	
Limit:	<input checked="" type="checkbox"/> >30dBc	Low, 2402 MHz > 60dBc High, 2480 MHz > 69dBc	
Nominal Voltage:	<input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 9VDC		
Test Personnel:	Yuriy Litvinov <i>Yuriy Litvinov</i>		Date: 03/16/2025

Note:	
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Band Edge - Low  
Center Freq. 2.400GHz



Band Edge - High  
Center Freq. 2.4835GHz

<b>4.7</b>	<b>Conducted Emissions Data</b>			
<b>Method:</b>	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.			
<b>Test Verification:</b> <input type="checkbox"/>		Laboratory Ambient Temperature:		
		Relative Humidity:		
		Atmospheric Pressure:		
<b>Reference Standard(s):</b>		<input type="checkbox"/> RSS Gen/FCC 15.207 <input type="checkbox"/> ANSI C63.4:2014 <input type="checkbox"/> ANSI C63.10:2020	<b>Measurement Point</b> <input checked="" type="checkbox"/> Mains <input type="checkbox"/> Telecommunication ports <input type="checkbox"/>	
<b>Nominal Voltage:</b>		<input type="checkbox"/> 120VAC <input type="checkbox"/> 230VAC <input type="checkbox"/> VDC		
<b>Test Personnel:</b>			<b>Date:</b>	
<b>Limits – Part 15.207/RSS Gen – AC Mains</b>				
Frequency (MHz)	Limit dB (µV)			
	Quasi-Peak	Average	Result	Comments
0.15 to 0.50	66 to 56	56 to 46	<b>N/A</b>	
0.50 to 5	56	46	<b>N/A</b>	
5 to 30	60	50	<b>N/A</b>	

<b>Modifications:</b>	
<b>Note:</b>	



4.8	RF Exposure Evaluation	
Reference Standard(s):	<input checked="" type="checkbox"/> KDB 447498 RF Exposure Guidance v06 <input type="checkbox"/> KDB 447498 Interim RF Exposure Guidance v01 <input checked="" type="checkbox"/> RSS 102, Issue 5 <input type="checkbox"/>	<input type="checkbox"/> MPE <input type="checkbox"/> SAR Evaluation <input checked="" type="checkbox"/> SAR Test Exclusion
Frequency Range(s):	<input checked="" type="checkbox"/> 2425.0MHz <input checked="" type="checkbox"/> 2402-2480.0MHz <input type="checkbox"/>	
Antenna Separation Distance:	>10mm	
RF Exposure Conditions:	Portable (Body-worn)	
Pak Tracker Antenna Gain:	2.83dBi	
Pak Tracker the source-based conducted output power:	112mW(20.5dBm)* 0.00872 (worst case duty cycle)= 0.98mW(-0.1dBm)	
Pak Tracker EIRP/ERP output power:	EIRP=-0.1dBm + 2.83dBi=2.73dBm, ERP=2.73dBm - 2.15dB=0.58dBm(1.14mW)	
The estimated 1-g SAR Value of the BT EDR transmitter:	[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]·[√f(GHz)/x] W/kg, for test separation distances ≤ 50 mm; where x = 7.5 for 1-g SAR (1.14mW/10mm)*(√2.45/7.5) =(0.114)*(1.57/7.5)=0.023 W/Kg	
BLE Antenna Gain:	2.0dBi	
BLE the source-based conducted output power:	2.24mW(3.5dBm)*0.85(worst case duty cycle)=1.9mW(2.8dBm)	
BLE EIRP/ERP output power:	EIRP=2.8dBm + 2.0dBi=4.8dBm, ERP=4.8dBm - 2.15dB= 2.65dBm(1.84mW)	
The estimated 1-g SAR Value of the BLE transmitter:	[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]·[√f(GHz)/x] W/kg, for test separation distances ≤ 50 mm; where x = 7.5 for 1-g SAR (1.84mW/10mm)*(√2.45/7.5) =(0.184)*(1.57/7.5)=0.04 W/Kg	
The sum of ratios for all simultaneously transmitting BLE and Pak Tracker	1.14/10+1.84/10=0.32 (sum of ratio is < 1.0)	
The sum of ratios (1-g SAR value) for all simultaneously transmitting Pack Tracker and BLE antennas incorporated in a radio:	(SAR value of Pak Tracker Transmitter/SAR limit) + (SAR value of BLE Transmitter/SAR limit) = (0.023/1.6) + (0.04/1.6) = 0.014+0.025= 0.04 < 1	
The SAR Exclusion Threshold Level		
FCC Part 2.1093	19mW<10mm @2.45GHz	
RSS 102, Issue 5	7mW>10mm @2.45GHz	

## Note:

The device has two simultaneously transmitting antennas for Pak Tracker and BLE.

5.0	Test Equipment				
Test Equipment Used					
Description	Manufacturer	Model	Identifier	Last Cal. Date	Check
Biconilog Antenna	Schwarzbeck	VULB 9168	9168-1070	10/20/2024	<input checked="" type="checkbox"/>
Horn Antenna	A.H. Systems	SAS 571	1010	10/20/2024	<input checked="" type="checkbox"/>
Loop Antenna	A.H. Systems	EHA-51B	1213E	10/20/2024	<input type="checkbox"/>
EMI Receiver	Rohde & Schwarz	ESW26	101412	10/20/2024	<input checked="" type="checkbox"/>
Signal Analyzer	Agilent	N9000A	MY53031040	10/20/2024	<input checked="" type="checkbox"/>
EMI Receiver	Agilent	E4448A	1530975	10/20/2024	<input checked="" type="checkbox"/>
LISN	TESEQ	NNB51	1130	10/20/2024	<input type="checkbox"/>
Coaxial Cable	Insulated Wire	2803	CBL2039	10/20/2024	<input checked="" type="checkbox"/>
EMC Software	ETS-Lindgren	TILE 7		N/A	<input checked="" type="checkbox"/>
Equipment Calibration Interval:		<input checked="" type="checkbox"/> 12 months <input type="checkbox"/> 24 months			

6.0	Report revision history		
Revision Level	Date	Report Number	Notes
0	04/08/2025	HRE202406471-1	Original Issue