

RADIO REPORT FCC 47 CFR Part 15C ISED Canada RSS-247 Frequency hopping systems operating within the 2400.0 MHz - 2483.5 MHz MHz band	
Report Reference No	G0M-2306-2102-TFC247BT-V02
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	    DAkkS - Registration number : D-PL-12092-01-03 (ISED) ISED Testing Laboratory site: 3470A DAkkS - Registration number : D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970
Applicant	Bridgestone Mobility Solutions B.V.
Address	Beethovenstraat 503 1083 HK Amsterdam Netherlands
Test Specification	47 CFR Part 15C RSS-247, Issue 3, 2023-08 RSS-Gen, Issue 5, Amendment 2, 2021-02
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	Telematic Accessory with Display + RFID + Bluetooth
Model(s)	PROI
Additional Model(s)	None
Brand Name(s)	webfleet PRO i
Hardware Version(s)	46/2022
Software Version(s)	0.0.25
FCC ID	2AGPAPROI
IC	20911-PROI
Test Result	PASSED

Possible test case verdicts:		
Required by standard but not tested	N/T	
Not required by standard	N/R	
Not applicable to EUT	N/A	
Test object does meet the requirement	P(PASS)	
Test object does not meet the requirement	F(FAIL)	
Testing:		
Test Lab Temperature	20 °C - 30 °C	
Test Lab Humidity	25 % - 55 %	
Date of receipt of test item	2023-07-11	
Report:		
Compiled by	Burkhard Pudell	
Created by (+ signature)	Burkhard Pudell	
Approved by (+ signature) (Test Lab Engineer)	Radwan Jaafar	
Date of Issue	2023-11-15	
Total number of pages	114	
General Remarks:		
The test results presented in this report relate only to the object tested. The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.		
Additional Comments:		
None		

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2023-10-19	Initial Release	--
02	2023-11-15	Replaced document: G0M-2306-2102-TFC247BT-V01 Replaced by: G0M-2306-2102-TFC247BT-V02 Reason: Correction of antenna gain by antenna pattern measurement	Burkhard Pudell

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
BR	Basic Rate (Bluetooth)
EDR	Enhanced Data Rate (Bluetooth)
EUT	Equipment Under Test
FCC	Federal Communications Commission
ISED	Innovation, Science and Economic Development Canada
RBW	Resolution bandwidth
RMS	Root mean square
VBW	Video bandwidth
V _{NOM}	Nominal supply voltage

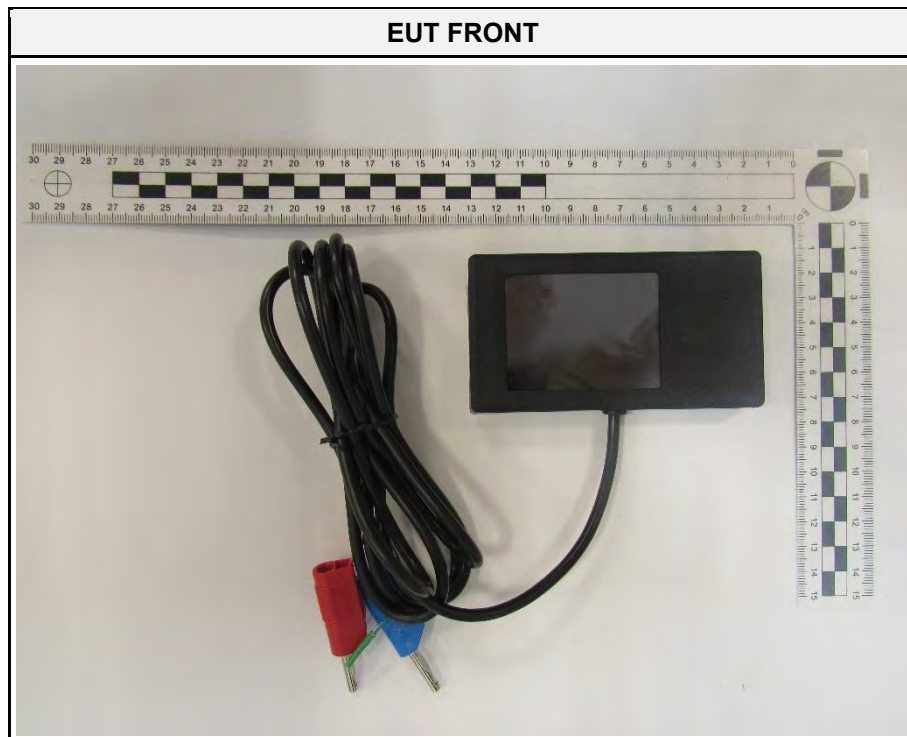
REPORT INDEX

1	Equipment (Test Item) Under Test.....	6
1.1	Photos – Equipment External	7
1.2	Photos – Equipment Internal	9
1.3	Support Equipment.....	11
1.4	Test Modes	11
1.5	Test Frequencies.....	11
1.6	Sample emission level calculation.....	12
2	Result Summary.....	13
3	Test Conditions and Results.....	14
3.1	Test Conditions and Results - Occupied bandwidth.....	14
3.2	Test Conditions and Results - 20 dB bandwidth.....	25
3.3	Test Conditions and Results - Number of hopping frequencies	36
3.4	Test Conditions and Results - Frequency hopping channel separation.....	38
3.5	Test Conditions and Results - Time of occupancy (Dwell time)	43
3.6	Test Conditions and Results - Maximum peak conducted output power	46
3.7	Test Conditions and Results - Band-edge compliance.....	57
3.8	Test Conditions and Results - Conducted spurious emissions.....	71
3.9	Test Conditions and Results - Transmitter radiated emissions	82
3.10	Test Conditions and Results - Receiver radiated emissions	89
ANNEX A	Transmitter spurious emissions	94
ANNEX B	Receiver spurious emissions	111

1 Equipment (Test Item) Under Test

Description	Telematic Accessory with Display + RFID + Bluetooth	
Model	PROI	
Additional Model(s)	None	
Brand Name(s)	webfleet PRO i	
Serial Number(s)	NZ1253W00059 / NZ1253W00012	
Test Sample Id(s)	Radiated: 44644 / Conducted: 44649	
Hardware Version(s)	46/2022	
Software Version(s)	0.0.25	
PMN	webfleet PRO i	
HVIN	PROI	
FVIN	0.0.25	
HMN	n/a	
FCC ID	2AGPAPROI	
IC	20911-PROI	
Equipment type	End Product	
Radio type	Transceiver	
Assigned frequency bands	2400.0 MHz - 2483.5 MHz	
Radio technology	Bluetooth Classic	
Power Class	2 (2.5 mW / +4 dBm)	
Modulation	GFSK, PI/4-DQPSK, 8-DPSK	
Number of antenna ports	1	
Antenna	Type	integral
	Model	PCB trace antenna
	Manufacturer	Webfleet Solutions
	Gain	2.6 dBi (by antenna pattern measurement)
Supply Voltage	V _{NOM}	12/24 VDC
Operating Temperature	T _{NOM}	25 °C
AC/DC-Adaptor	Model	none
Manufacturer	Bridgestone Mobility Solutions B.V. Beethovenstraat 503 1083 HK Amsterdam Netherlands	

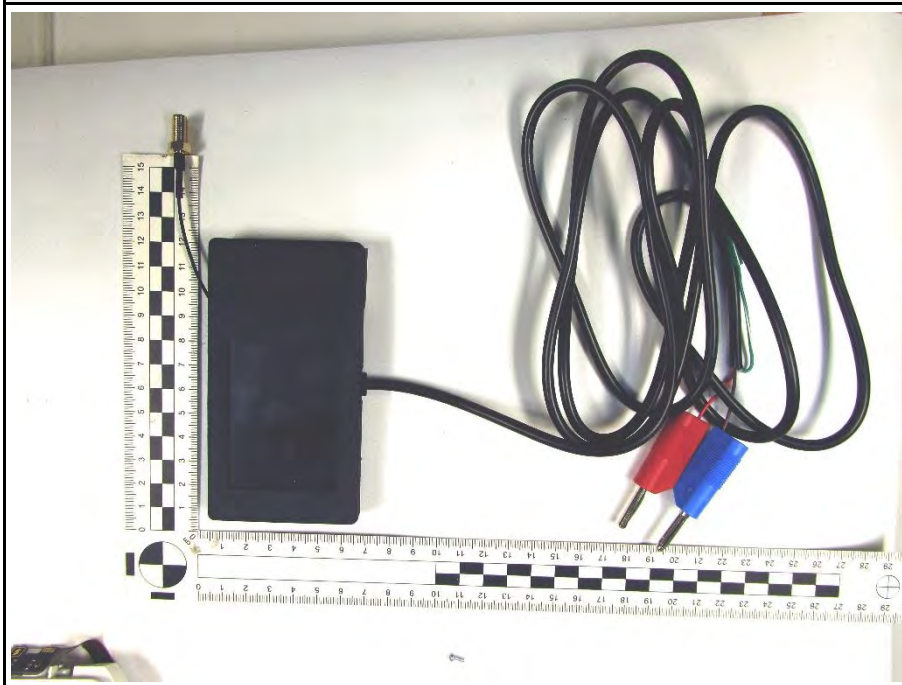
1.1 Photos – Equipment External



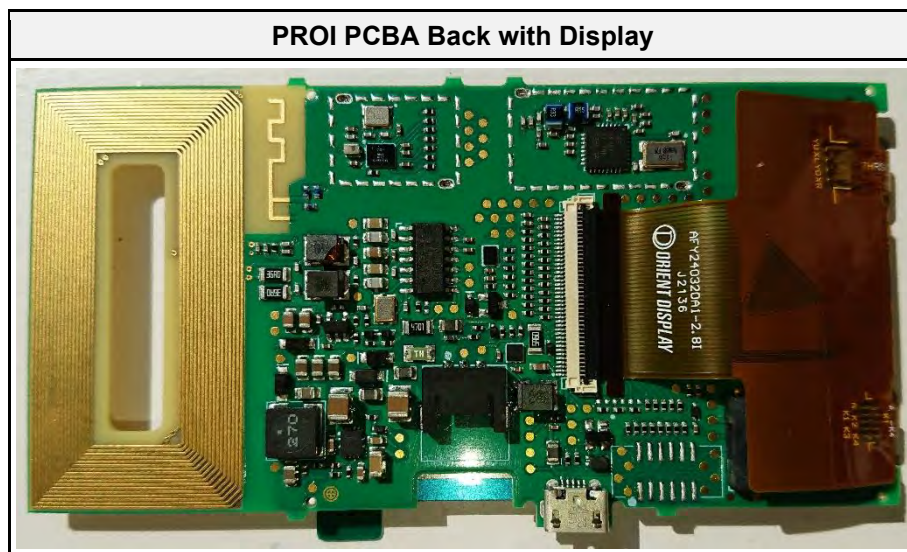
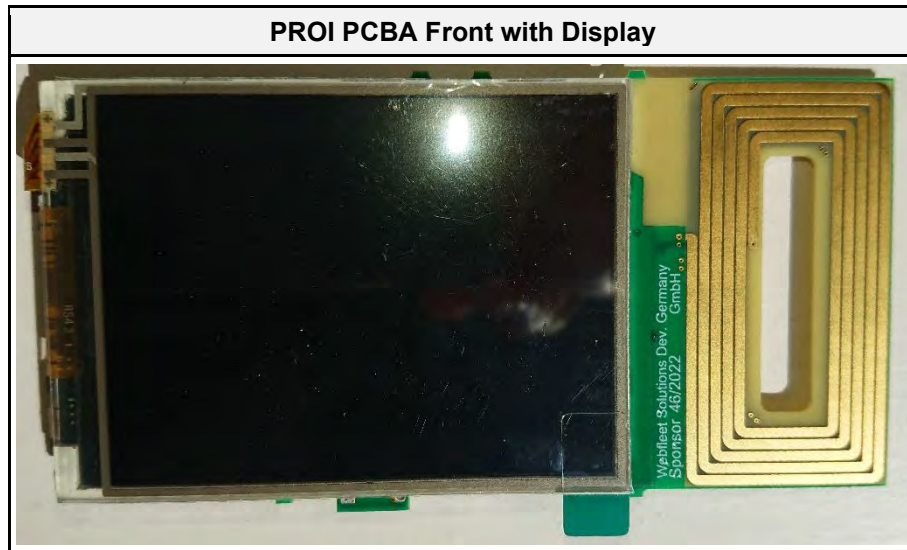
EUT BACK



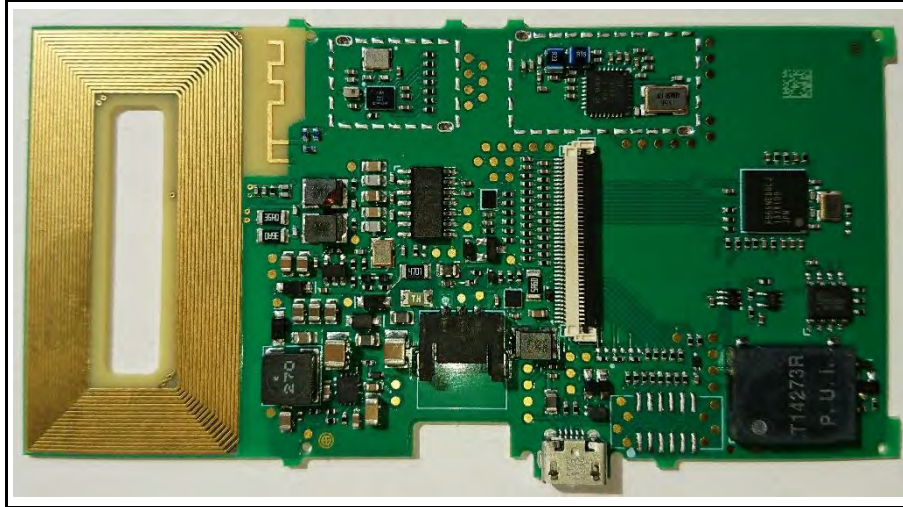
EUT (conducted)



1.2 Photos – Equipment Internal



PROI PCBA Back without Display



1.3 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
SIM	Communication Tester	R&S	CMW270	BT-Tester
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment:				

1.4 Test Modes

Mode	Description
DH5 Single	Mode = Transmit Modulation = GFSK Spreading = None Packet type = DH5 Duty cycle = 78%
2-DH5 Single	Mode = Transmit Modulation = PI/4-DQPSK Spreading = None Packet type = 2-DH5 Duty cycle = 78%
3-DH5 Single	Mode = Transmit Modulation = 8-DPSK Spreading = None Packet type = 3-DH5 Duty cycle = 78%
DH5 Hopping	Mode = Transmit Modulation = GFSK Spreading = FHSS Packet type = DH5 Duty cycle = 78%
2-DH5 Hopping	Mode = Transmit Modulation = PI/4-DQPSK Spreading = FHSS Packet type = 2-DH5 Duty cycle = 78%
3-DH5 Hopping	Mode = Transmit Modulation = 8-DPSK Spreading = FHSS Packet type = 3-DH5 Duty cycle = 78%
Receive	Mode = Receive Scan mode
Comment:	

1.5 Test Frequencies

Designator	Mode	Channel	Frequency [MHz]
F1	Tx / Rx	0	2402
F2	Tx / Rx	39	2441
F3	Tx / Rx	40	2442
F4	Tx / Rx	78	2480

1.6 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in dB μ V. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyzer. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyzer (dB}\mu\text{V)} + \text{A.F. (dB/m)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Field strength limit:

This is the FCC Class B radiated emission limit (in units of dB μ V/m). The FCC limits are given in units of μ V/m. The following formula is used to convert the units of μ V/m to dB μ V/m:

$$\text{Field strength limit (dB}\mu\text{V/m)} = 20 \cdot \log (\mu\text{V/m})$$

Example only for radiated field strength:

Reading + AF	= Net Reading	:	Net reading	- Field strength limit	= Margin
+21.5 dB μ V	+ 26 dB/m	:	47.5 dB μ V/m	- 57.0 dB μ V/m	= -9.5

2 Result Summary

FCC 47 CFR Part 15C, ISED RSS-247				
Product Standard Reference	Requirement	Reference Method	Result	Remarks
ISED RSS-Gen, Issue 5 A2 (section 6.7)	Occupied Bandwidth	ANSI C63.10-2013	N/R	Informational only
FCC § 15.247(a)(1) ISED RSS-247 § 5.1 Issue 3	20 dB Bandwidth	ANSI C63.10-2013	PASS	-
FCC § 15.247(a)(1)(iii) ISED RSS-247, Issue 3 (section 5.1)	Number of hopping frequencies	ANSI C63.10-2013	PASS	-
FCC § 15.247(a)(1) ISED RSS-247, Issue 3 (section 5.1)	Frequency hopping channel separation	ANSI C63.10-2013	PASS	-
FCC § 15.247(a)(1)(iii) ISED RSS-247, Issue 3 (section 5.1)	Time of occupancy (Dwell time)	ANSI C63.10-2013	PASS	-
FCC § 15.247(b) ISED RSS-247, Issue 3 (section 5.4)	Maximum peak conducted power	ANSI C63.10-2013	PASS	-
FCC § 15.207 ISED RSS-247, Issue 3 (section 3.1)	AC power line conducted emissions	ANSI C63.10-2013	N/R	No powered (directly or indirectly) via AC-Mains
FCC § 15.247(d) ISED RSS-247, Issue 3 (section 5.5)	Band edge compliance	ANSI C63.10-2013	PASS	-
FCC § 15.247(d) ISED RSS-247, Issue 3 (section 5.5)	Conducted spurious emissions	ANSI C63.10-2013	PASS	-
FCC § 15.247(d) FCC § 15.209 ISED RSS-Gen, Issue 5 A2 (section 6.13)	Transmitter radiated spurious emissions	ANSI C63.10-2013	PASS	-
ISED RSS-247, Issue 3 (section 3.1)	Receiver radiated spurious emissions	ANSI C63.4-2014	PASS	-
Comment: The Decision Rule is applied on the basis of ETSI TR 102 273 and ETSI TR 100 028. These standards provide guidance on how to calculate and apply measurement uncertainty whilst providing maximum uncertainties allowance. In all cases due consideration will be given to ILAC-G8:09/2019. Where a result is considered conditional in respect of its proximity to the limit line, the customer would be made aware of situation so that they can make an informed decision on how to proceed.				

Possible Test Case Verdicts	
PASS	Test object does meet the requirements
FAIL	Test object does not meet the requirements
N/T	Required by standard but not tested
N/R	Not required by standard for the test object

3 Test Conditions and Results

3.1 Test Conditions and Results - Occupied bandwidth

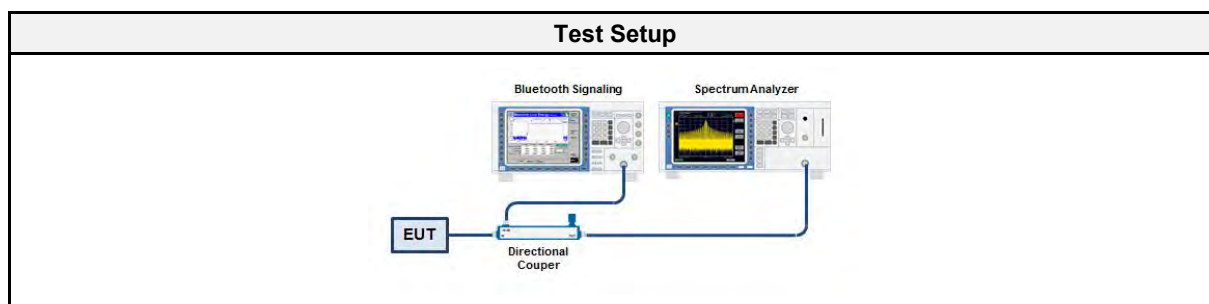
3.1.1 Information

Test Information	
Reference	ISED RSS-Gen, Issue 5 A2 (section 6.7)
Measurement Method	ANSI C63.10 6.9.3
Measurement Uncertainty	$\pm 1.26 \%$
Test Sample ID	44649
Operator	Ehsan Sohrabi
Date	2023-07-13

3.1.2 Limits

Limits
None (Informational only)

3.1.3 Setup



3.1.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01003	2022-07	2023-07
Bluetooth signaling	R&S	CMW 270	EF01169	2023-04	2024-04
Cable (CAABF)	Gigalane	GIGALANE 1730	EF00779	2023-03	2024-03

3.1.5 Procedure

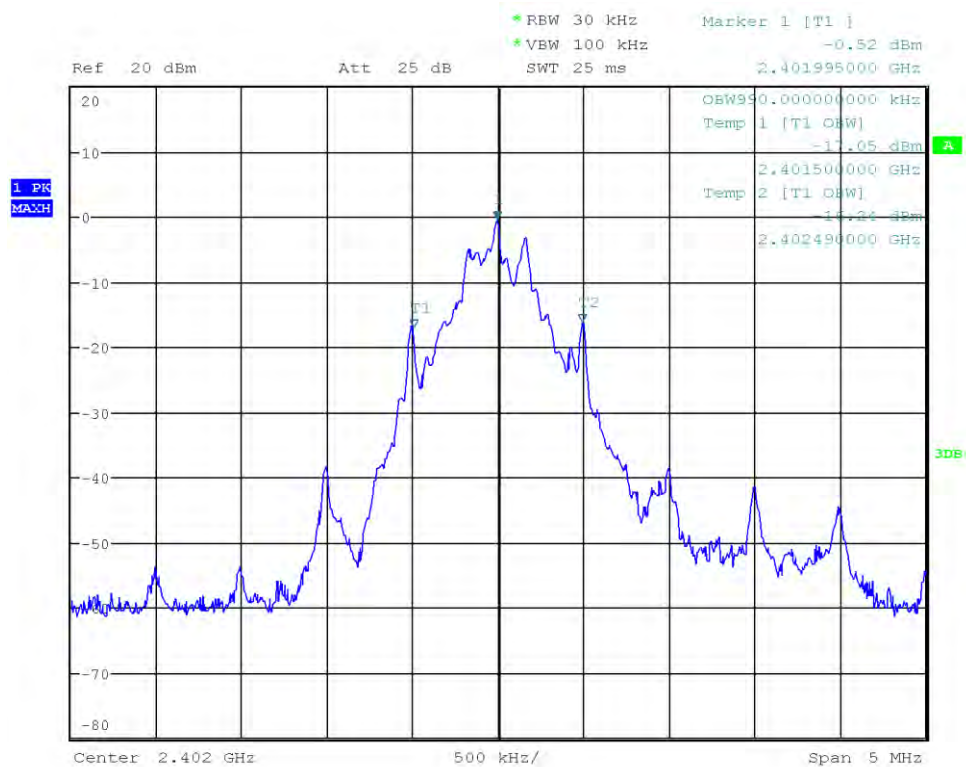
Test Procedure
1. EUT transmitter is activated in test mode under normal conditions 2. The spectrum analyzer is set to peak detection and maximum hold with a span twice the emission spectrum 3. The resolution bandwidth is set to the range of 1 % to 5 % of the occupied bandwidth 4. The occupied bandwidth is measured with the build-in analyzer function

3.1.6 Results

Test Results		
Mode	Frequency [MHz]	Bandwidth [MHz]
DH5	2402	0.990
DH5	2441	0.990
DH5	2480	0.990
2-DH5	2402	1.165
2-DH5	2441	1.165
2-DH5	2480	1.170
3-DH5	2402	1.175
3-DH5	2441	1.175
3-DH5	2480	1.175

Occupied Bandwidth

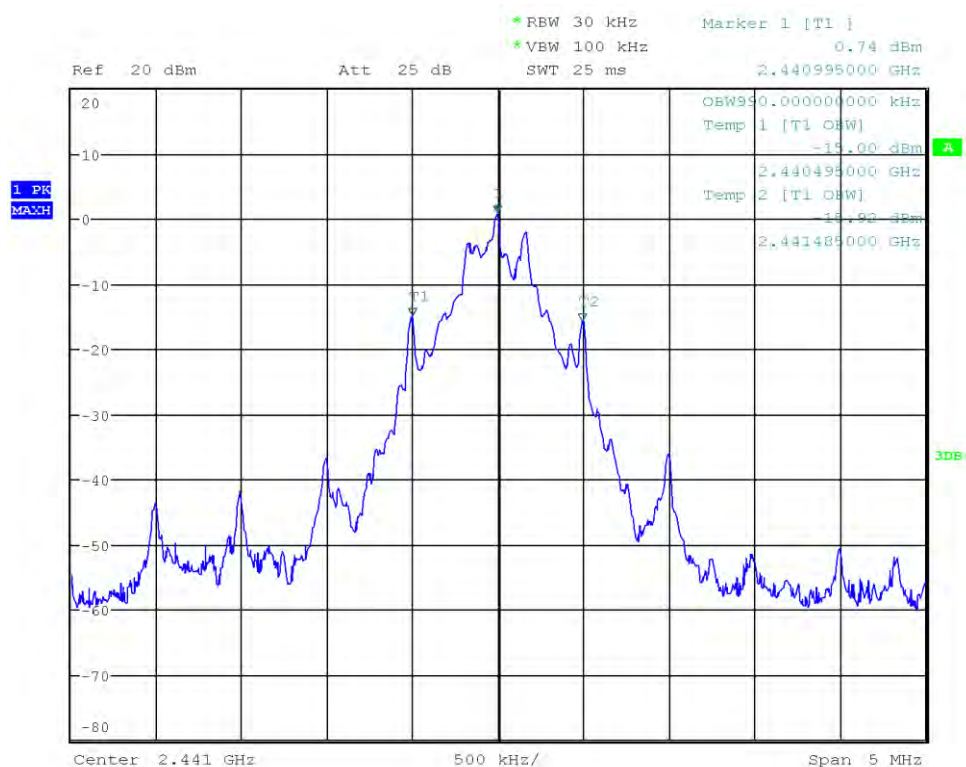
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Occupied Bandwidth [MHz]: 0.990



Date: 13.JUL.2023 15:23:02

Occupied Bandwidth

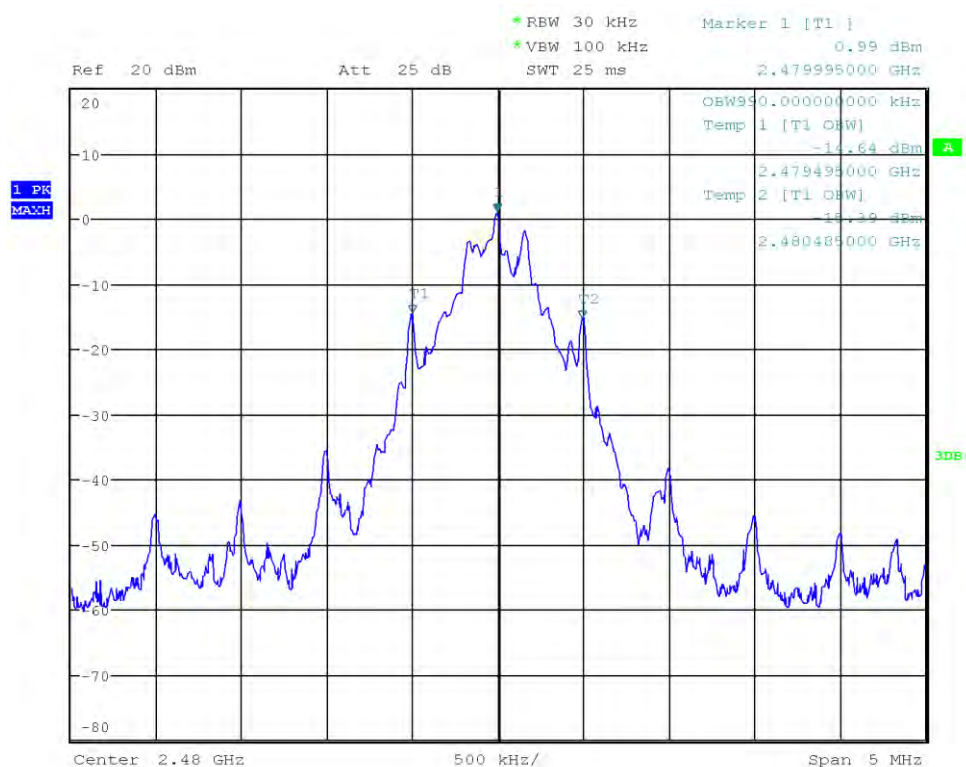
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Occupied Bandwidth [MHz]: 0.990



Date: 13.JUL.2023 15:24:21

Occupied Bandwidth

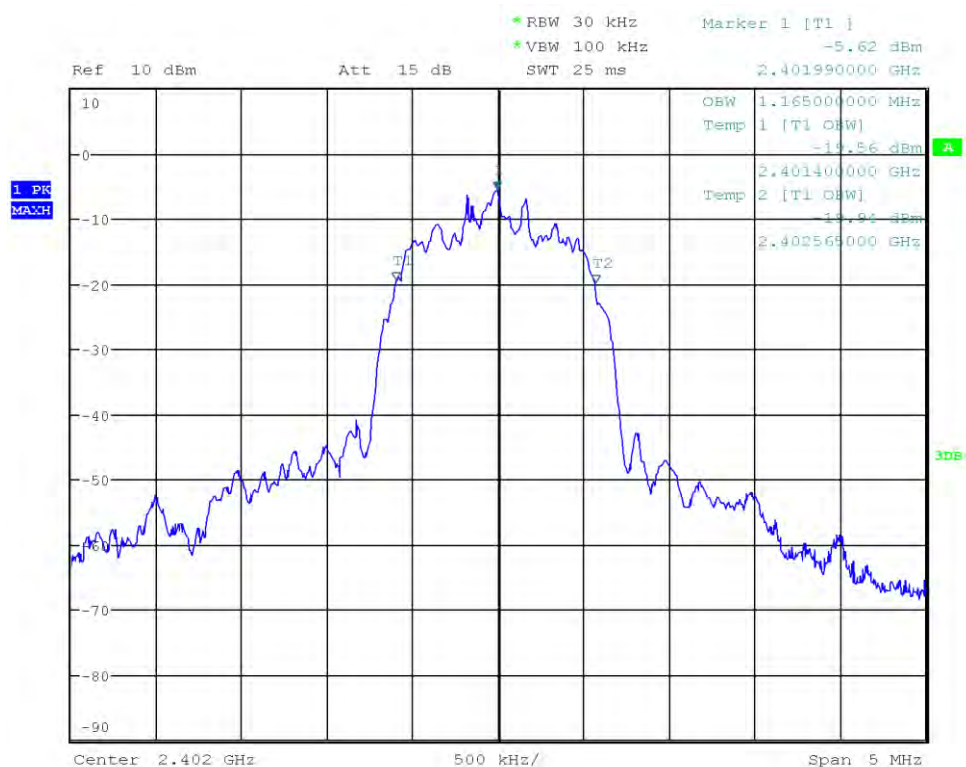
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Occupied Bandwidth [MHz]: 0.990



Date: 13.JUL.2023 15:25:55

Occupied Bandwidth

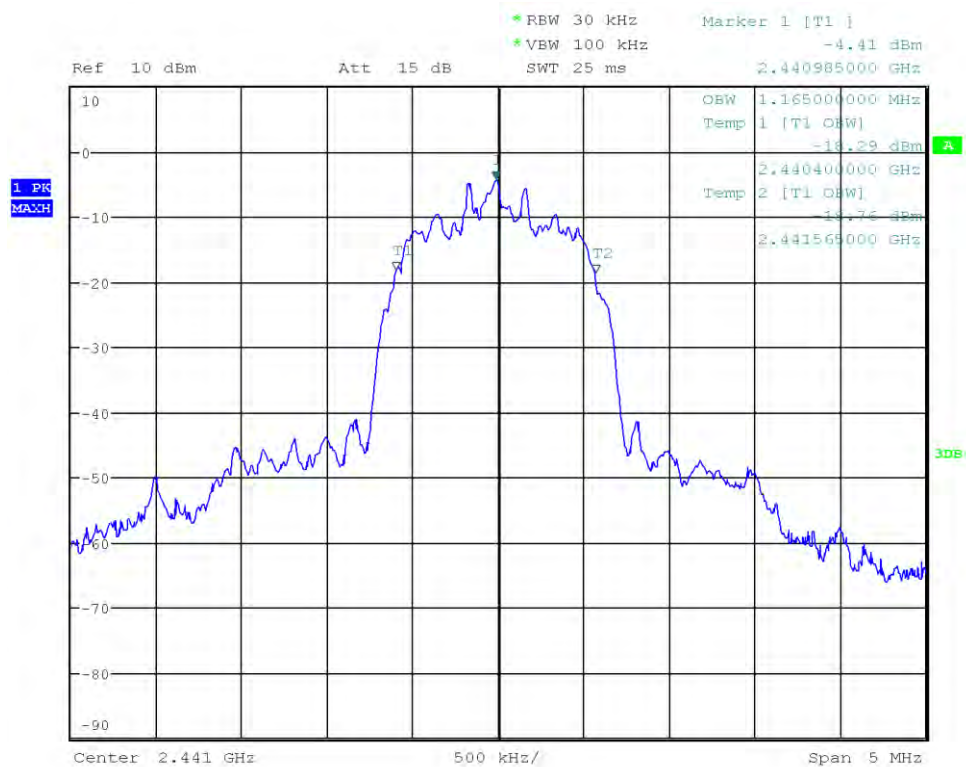
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: 2-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Occupied Bandwidth [MHz]: 1.165



Date: 13.JUL.2023 15:27:59

Occupied Bandwidth

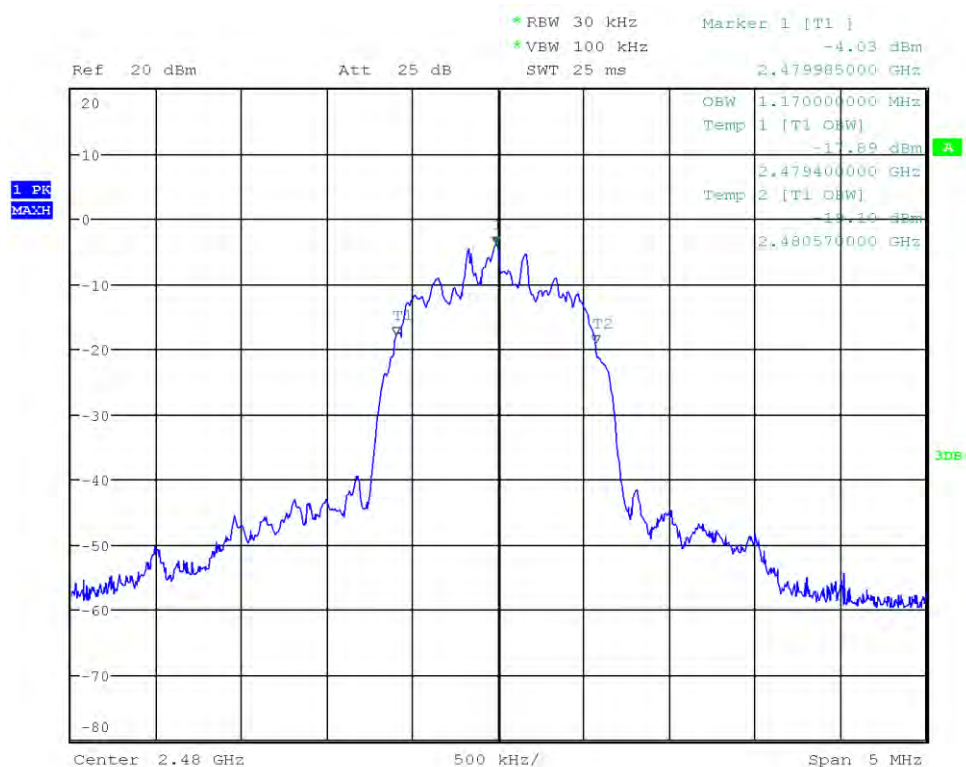
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: 2-DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Occupied Bandwidth [MHz]: 1.165



Date: 13.JUL.2023 15:33:43

Occupied Bandwidth

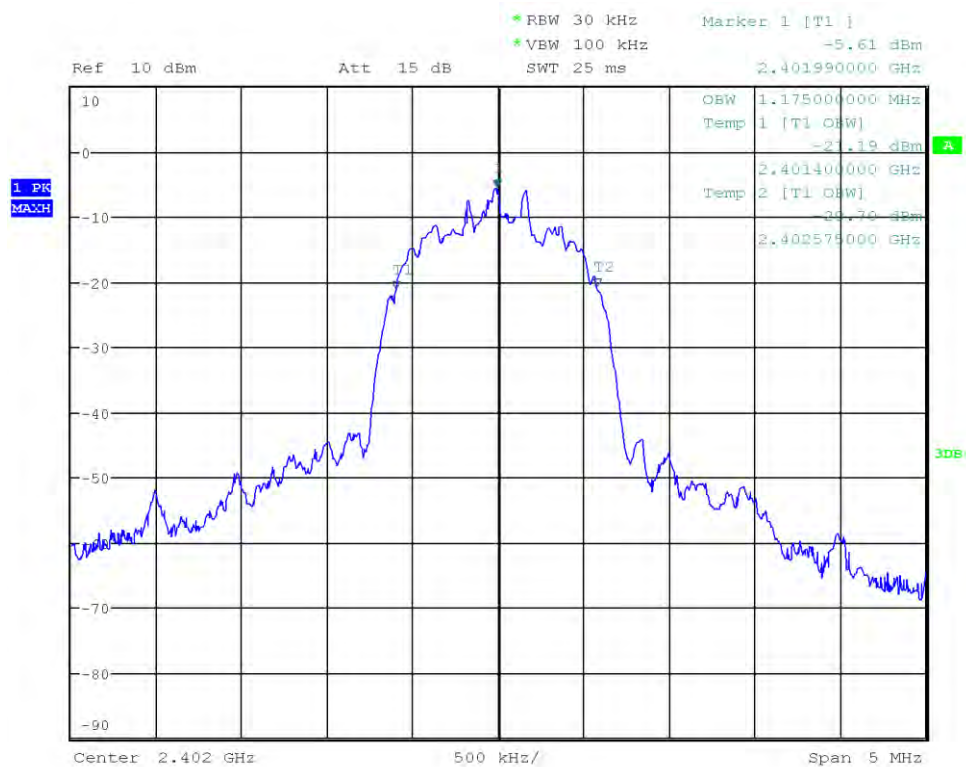
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: 2-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Occupied Bandwidth [MHz]: 1.170



Date: 13.JUL.2023 15:34:52

Occupied Bandwidth

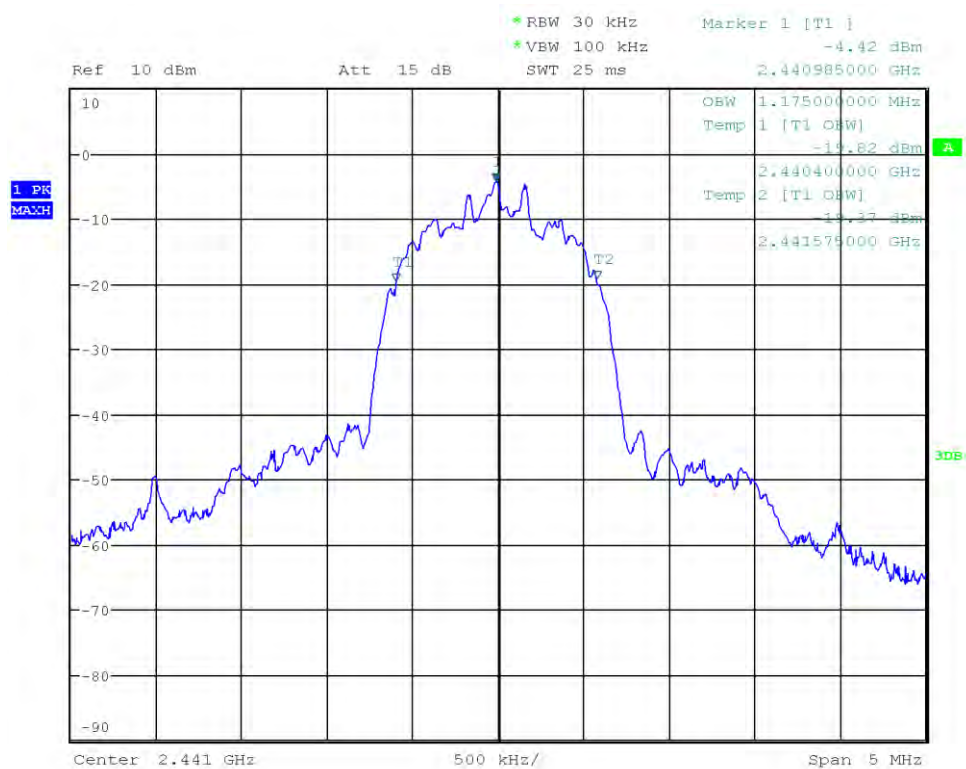
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: 3-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Occupied Bandwidth [MHz]: 1.175



Date: 13.JUL.2023 15:36:33

Occupied Bandwidth

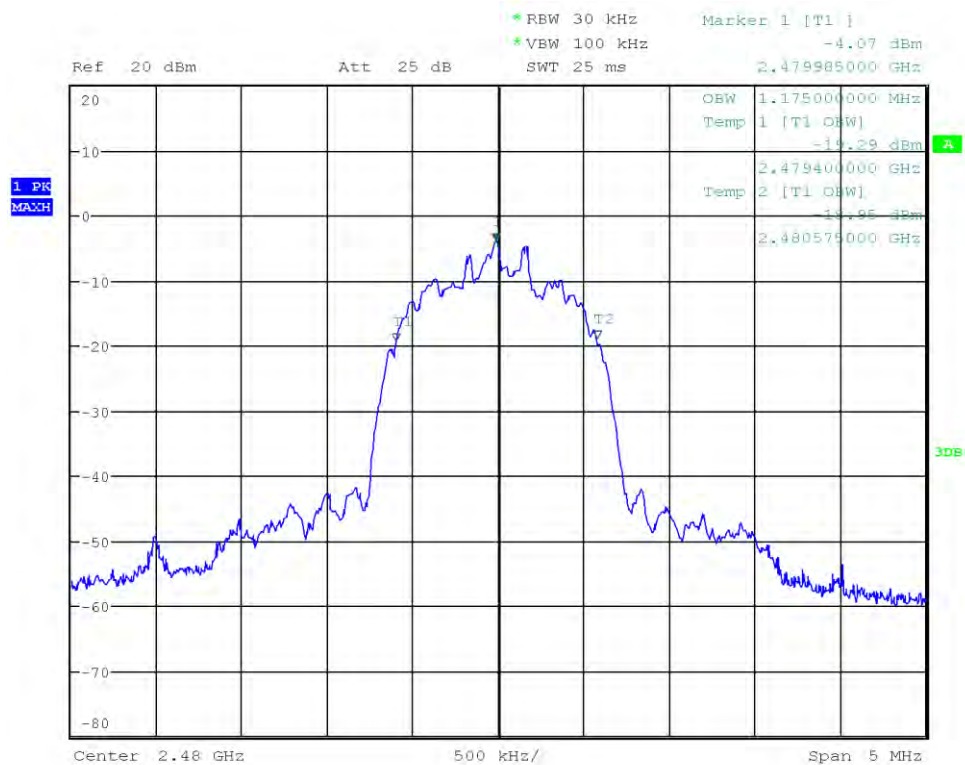
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: 3-DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Occupied Bandwidth [MHz]: 1.175



Date: 13.JUL.2023 15:38:11

Occupied Bandwidth

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: 3-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Occupied Bandwidth [MHz]: 1.175



Date: 13.JUL.2023 15:39:31

3.2 Test Conditions and Results - 20 dB bandwidth

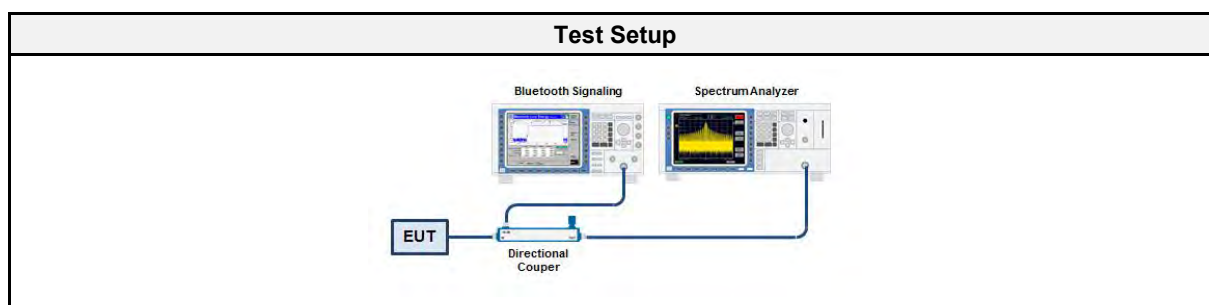
3.2.1 Information

Test Information	
Reference	FCC 15.247(a)(1) / ISSED RSS-247 5.1
Measurement Method	ANSI C63.10 6.9.2
Measurement Uncertainty	± 1.26 %
Test Sample ID	44649
Operator	Ehsan Sohrabi
Date	2023-07-13

3.2.2 Limits

Limits
None (Informational only)

3.2.3 Setup



3.2.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01003	2022-07	2023-07
Bluetooth signaling	R&S	CMW 270	EF01169	2022-04	2023-04
Cable (CAABF)	Gigalane	GIGALANE 1730	EF00779	2023-03	2024-03

3.2.5 Procedure

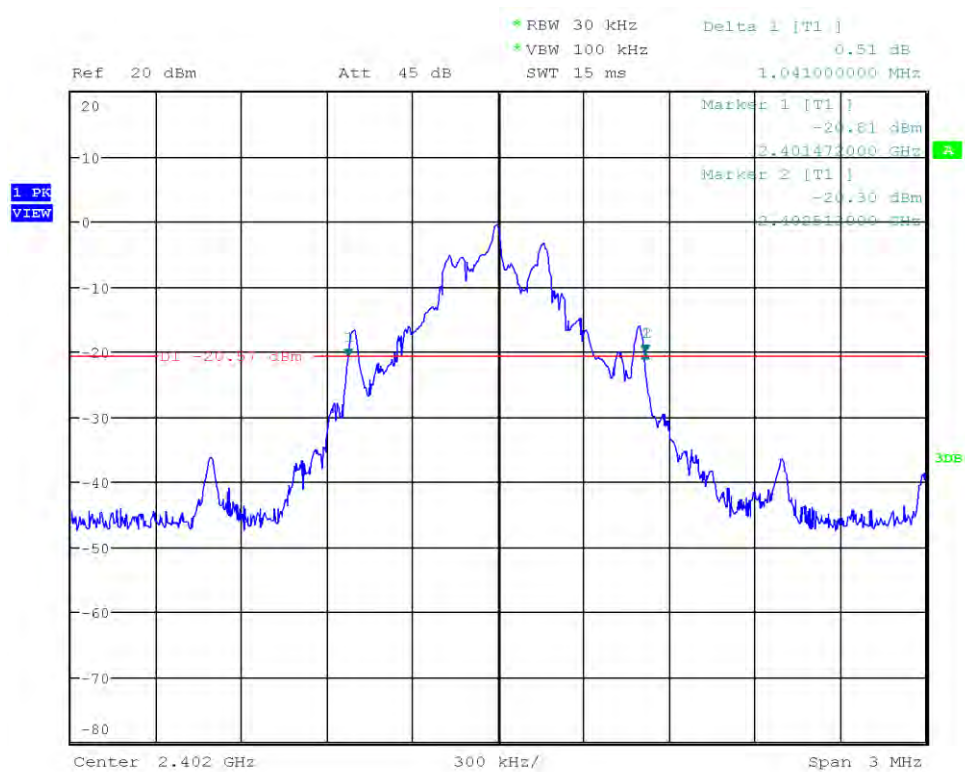
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to at least twice the emission spectrum 3. Detector set to peak and max hold 4. Envelope peak value of emission spectrum is selected 5. Marker on envelope of spectrum is set to level of -20 dB to the left of the peak 6. Marker on envelope of spectrum is set to level of -20 dB to the right of the peak 7. 20dB Bandwidth is determined by marker frequency separation

3.2.6 Results

Test Results		
Mode	Frequency [MHz]	Bandwidth [MHz]
DH5	2402	1.041
DH5	2441	1.041
DH5	2480	1.041
2-DH5	2402	1.317
2-DH5	2441	1.320
2-DH5	2480	1.323
3-DH5	2402	1.302
3-DH5	2441	1.302
3-DH5	2480	1.302

20 dB Bandwidth

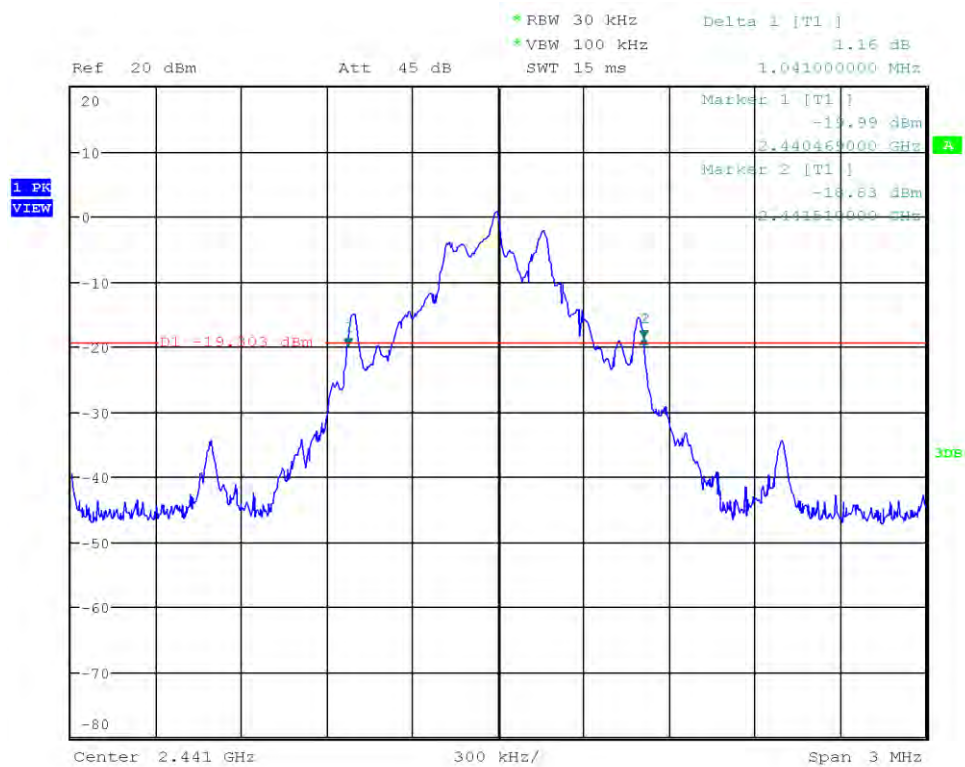
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Lower Frequency [MHz]: 2401.472
 Upper Frequency [MHz]: 2402.513
 20 dB Bandwidth [MHz]: 1.041



Date: 13.JUL.2023 15:43:12

20 dB Bandwidth

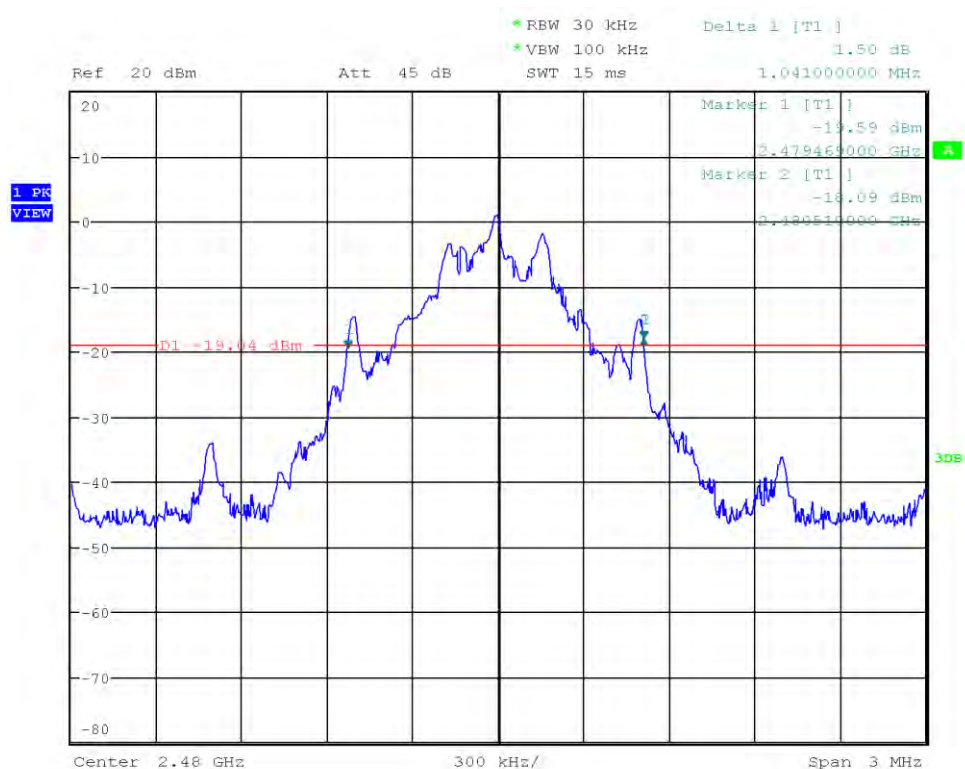
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Lower Frequency [MHz]: 2440.469
 Upper Frequency [MHz]: 2441.510
 20 dB Bandwidth [MHz]: 1.041



Date: 13.JUL.2023 15:44:27

20 dB Bandwidth

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Lower Frequency [MHz]: 2479.469
 Upper Frequency [MHz]: 2480.510
 20 dB Bandwidth [MHz]: 1.041



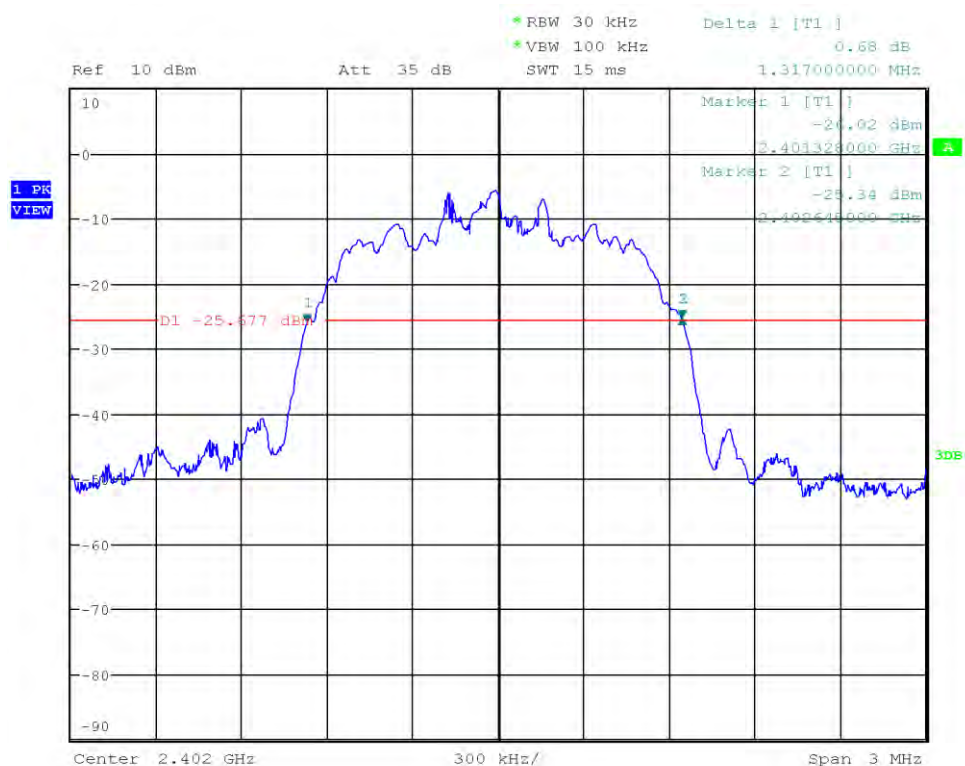
Date: 13.JUL.2023 15:45:18

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

20 dB Bandwidth

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: 2-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Lower Frequency [MHz]: 2401.328
 Upper Frequency [MHz]: 2402.645
 20 dB Bandwidth [MHz]: 1.317



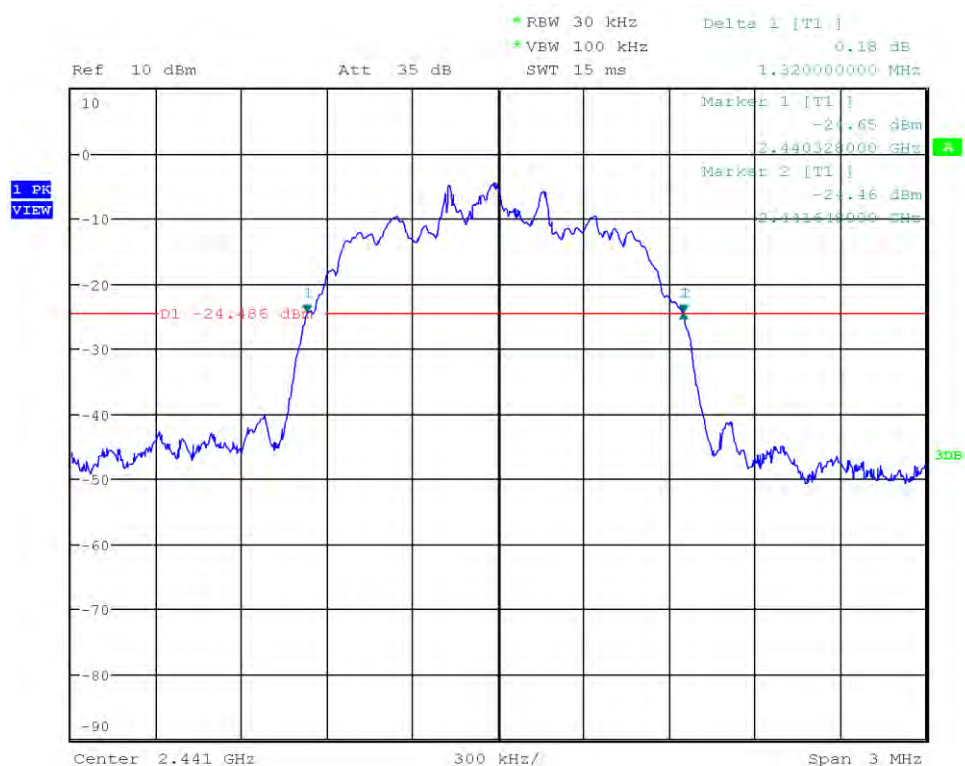
Date: 13.JUL.2023 15:46:19

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

20 dB Bandwidth

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: 2-DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Lower Frequency [MHz]: 2440.328
 Upper Frequency [MHz]: 2441.648
 20 dB Bandwidth [MHz]: 1.320



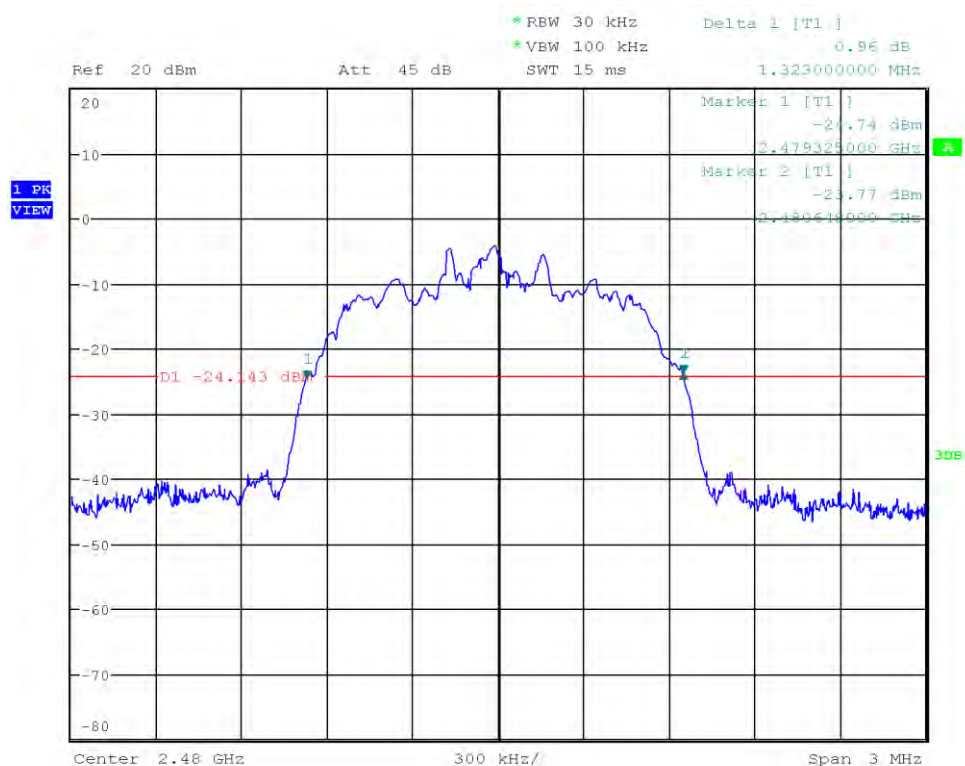
Date: 13.JUL.2023 15:47:38

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

20 dB Bandwidth

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: 2-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Lower Frequency [MHz]: 2479.325
 Upper Frequency [MHz]: 2480.648
 20 dB Bandwidth [MHz]: 1.323



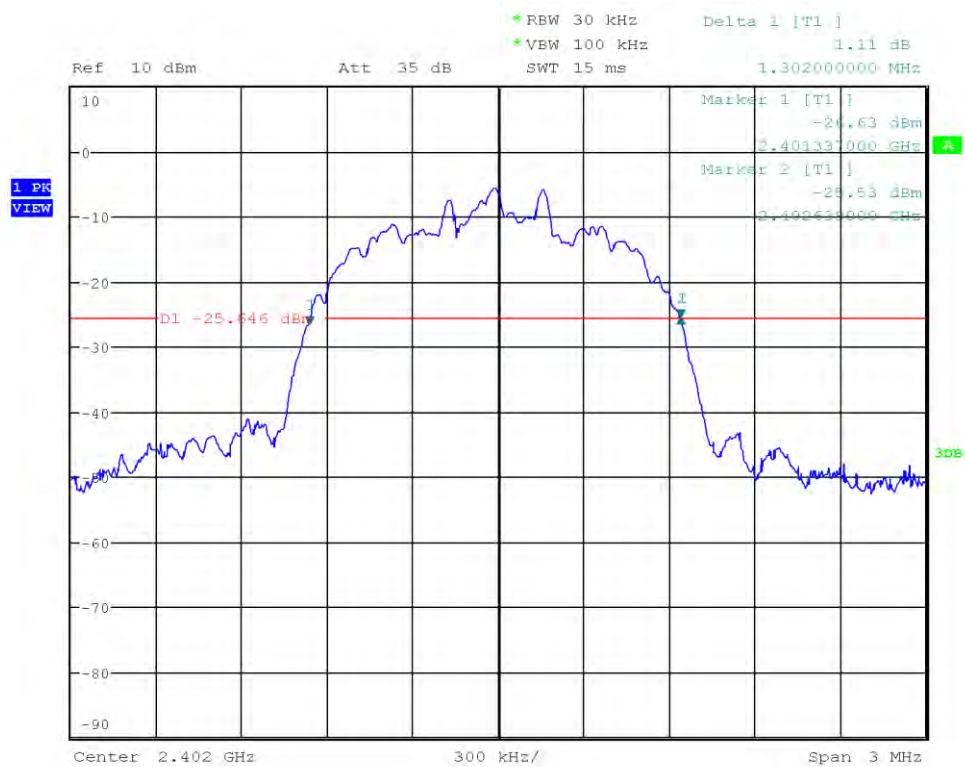
Date: 13.JUL.2023 15:48:32

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

20 dB Bandwidth

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: 3-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Lower Frequency [MHz]: 2401.337
 Upper Frequency [MHz]: 2402.639
 20 dB Bandwidth [MHz]: 1.302



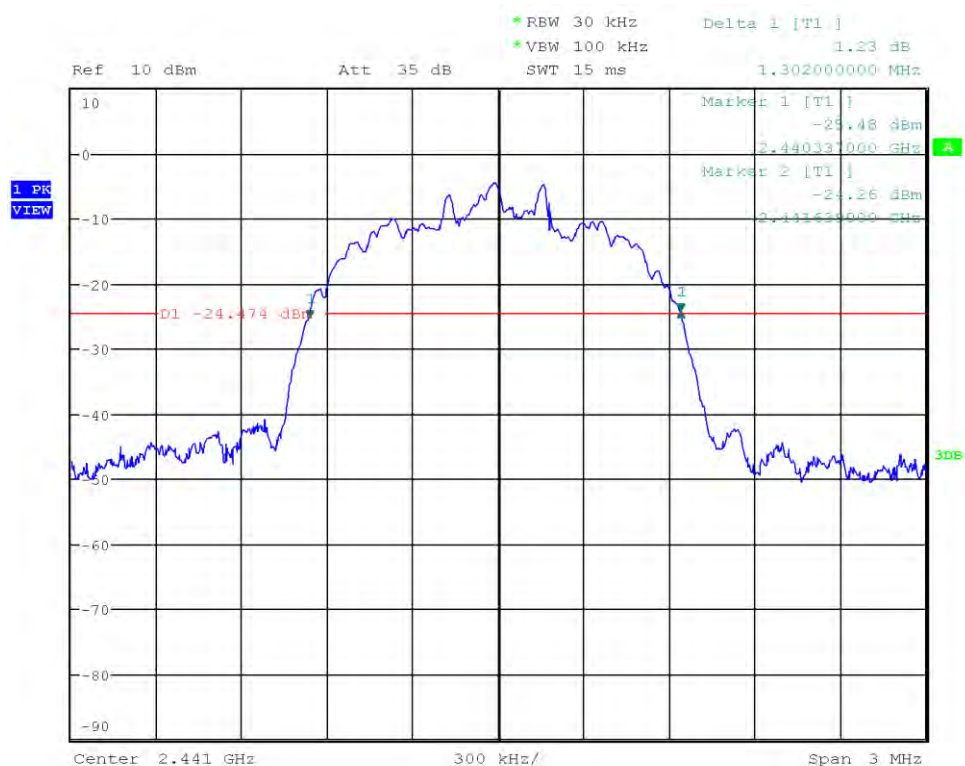
Date: 13.JUL.2023 15:51:24

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

20 dB Bandwidth

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: 3-DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Lower Frequency [MHz]: 2440.337
 Upper Frequency [MHz]: 2441.639
 20 dB Bandwidth [MHz]: 1.302



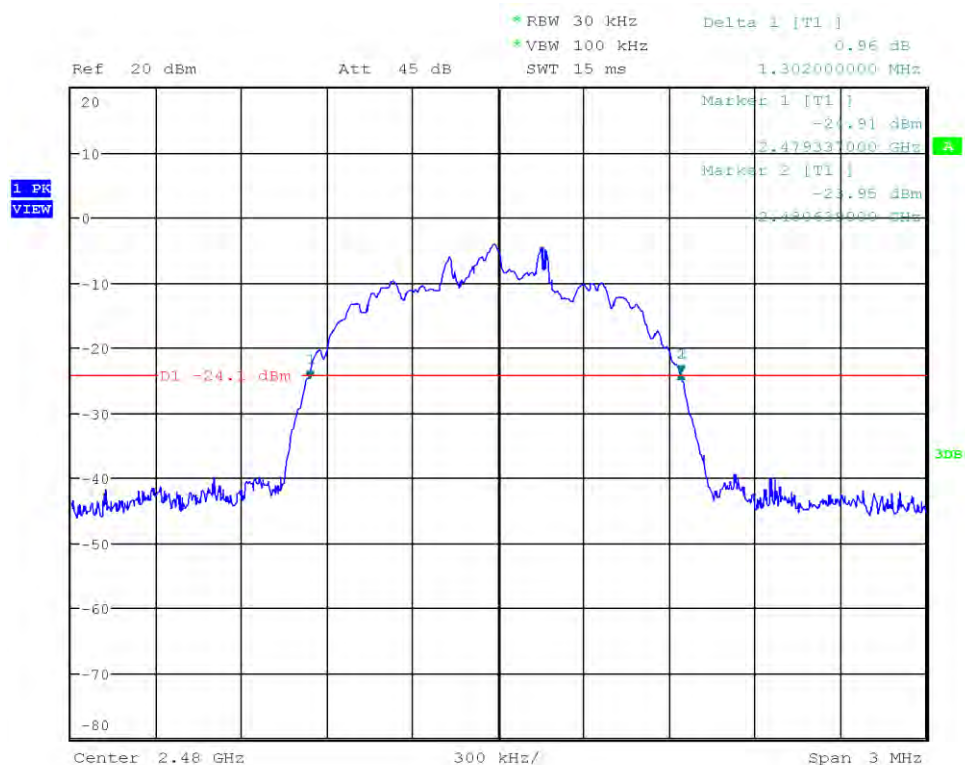
Date: 13.JUL.2023 15:53:31

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

20 dB Bandwidth

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: 3-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Lower Frequency [MHz]: 2479.337
 Upper Frequency [MHz]: 2480.639
 20 dB Bandwidth [MHz]: 1.302



Date: 13.JUL.2023 15:55:30

3.3 Test Conditions and Results - Number of hopping frequencies

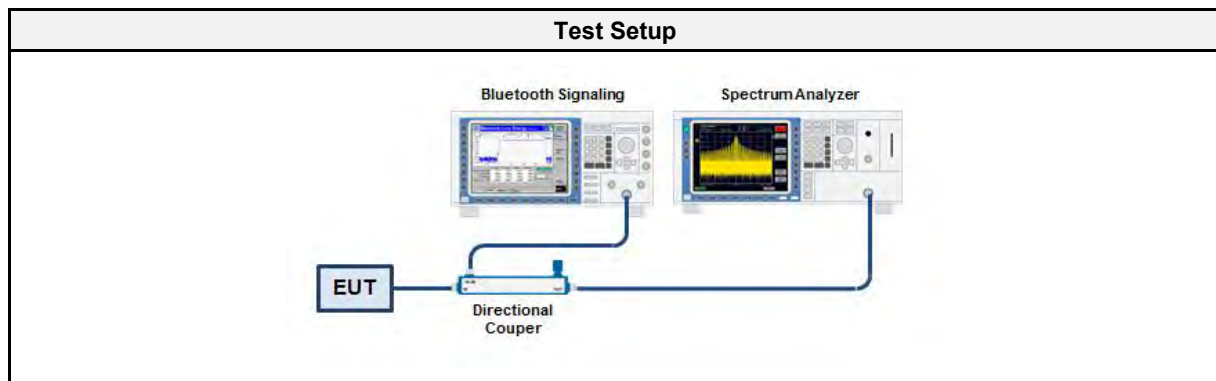
3.3.1 Information

Test Information	
Reference	FCC § 15.247(a)(1)(iii); ISED RSS-247, Issue 3 (section 5.1)
Measurement Method	ANSI C63.10 7.8.3
Operator	Ehsan Sohrabi
Date	2023-07-13

3.3.2 Limits

Limits
≥ 15

3.3.3 Setup



3.3.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01003	2022-07	2023-07
Bluetooth signaling	R&S	CMW 270	EF01169	2022-04	2023-04
Cable (CAABF)	Gigalane	GIGALANE 1730	EF00779	2023-03	2024-03

3.3.5 Procedure

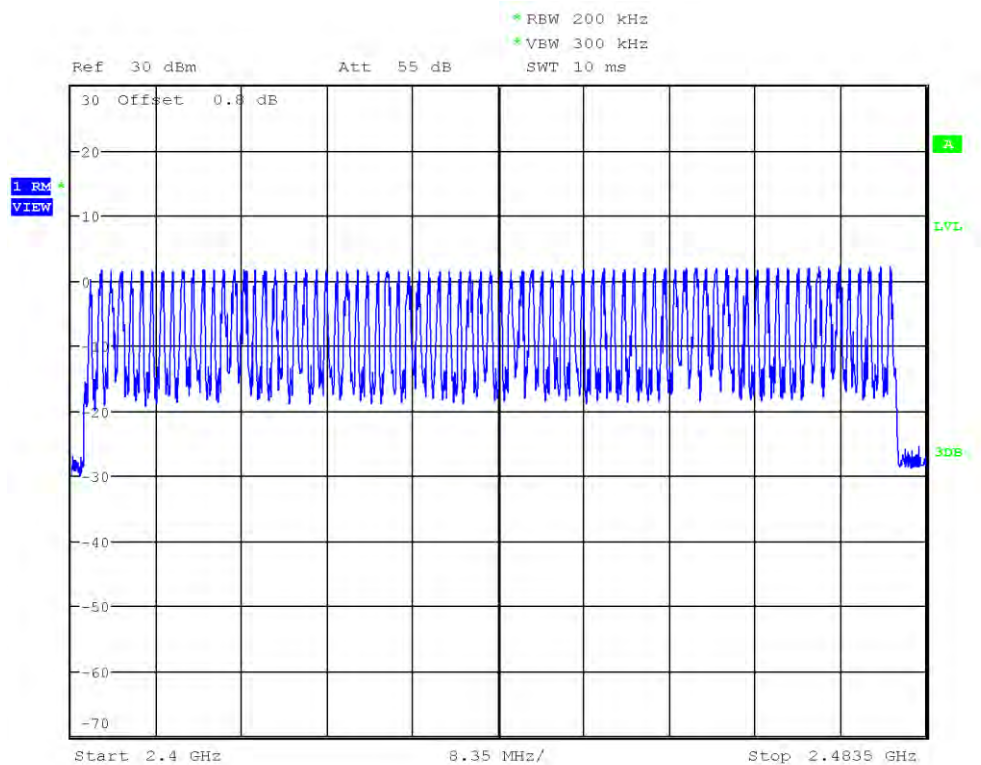
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to measurement frequency range 3. Detector set to peak and max hold 4. Resolution bandwidth is set small enough to resolve hopping channel emission spectra 5. The number of peaks is counted to determine number of hopping frequencies

3.3.6 Results

Test Results		
Number of hopping frequencies	Limit	Verdict
79	79	PASS

Number of hopping frequencies

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44649
Reference Standards:	FCC 15.27 (a)(1)(iii)
Reference Method:	ANSI C63.10:2013 7.8.3
Operational Mode:	Bluetooth, DH5, Hopping Mode
Operating Conditions:	Tnom/Vnom
Operator:	Burkhard Pudell
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-07-13
Number of Hopping Channels:	79



Date: 13.JUL.2023 16:04:04

3.4 Test Conditions and Results - Frequency hopping channel separation

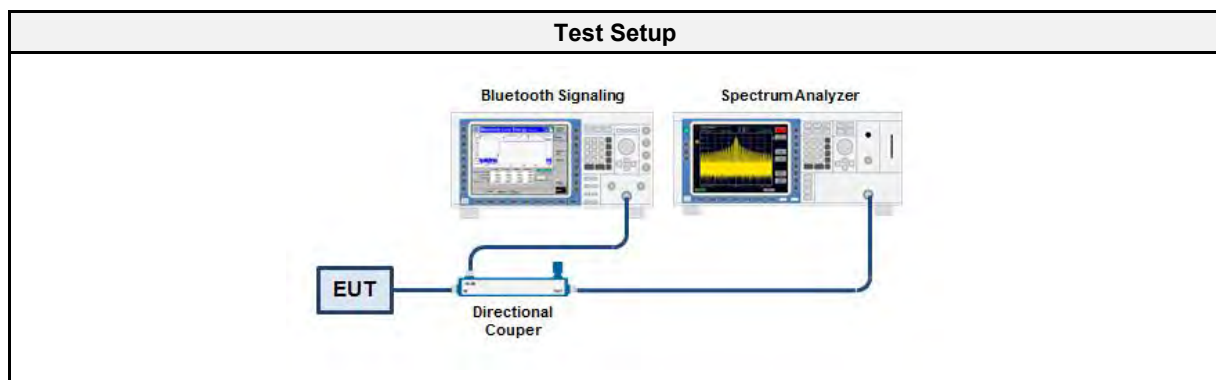
3.4.1 Information

Test Information	
Reference	FCC § 15.247(a)(1); ISED RSS-247, Issue 3 (section 5.1)
Measurement Method	ANSI C63.10 7.8.4
Measurement Uncertainty	± 3.14 %
Operator	Ehsan Sohrabi
Date	2023-07-13

3.4.2 Limits

Limit
≥ 25 kHz or ⅓ of 20 dB bandwidth

3.4.3 Setup



3.4.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01003	2022-07	2023-07
Bluetooth signaling	R&S	CMW 270	EF01169	2022-04	2023-04
Cable (CAABF)	Gigalane	GIGALANE 1730	EF00779	2023-03	2024-03

3.4.5 Procedure

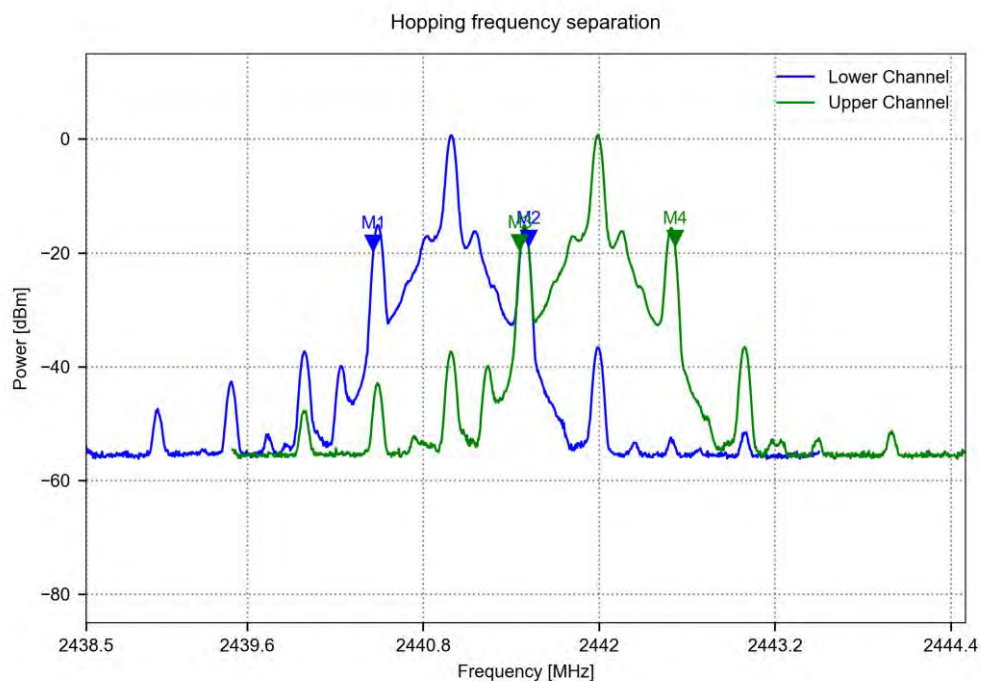
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to measurement frequency range 3. Detector set to peak and max hold 4. Resolution bandwidth is set small enough to resolve hopping channel emission spectra 5. The two adjacent channel peaks are marked 6. Channel separation is determined from frequency separation of markers

3.4.6 Results

Test Results			
Mode	Channel separation [kHz]	Limit [kHz]	Verdict
DH5 Hopping	1000	$\geq \frac{2}{3} \cdot 984.0 = 656.0$	PASS
2-DH5 Hopping	1000	$\geq \frac{2}{3} \cdot 1329.0 = 886.0$	PASS
3-DH5 Hopping	1000	$\geq \frac{2}{3} \cdot 1308.0 = 872.0$	PASS

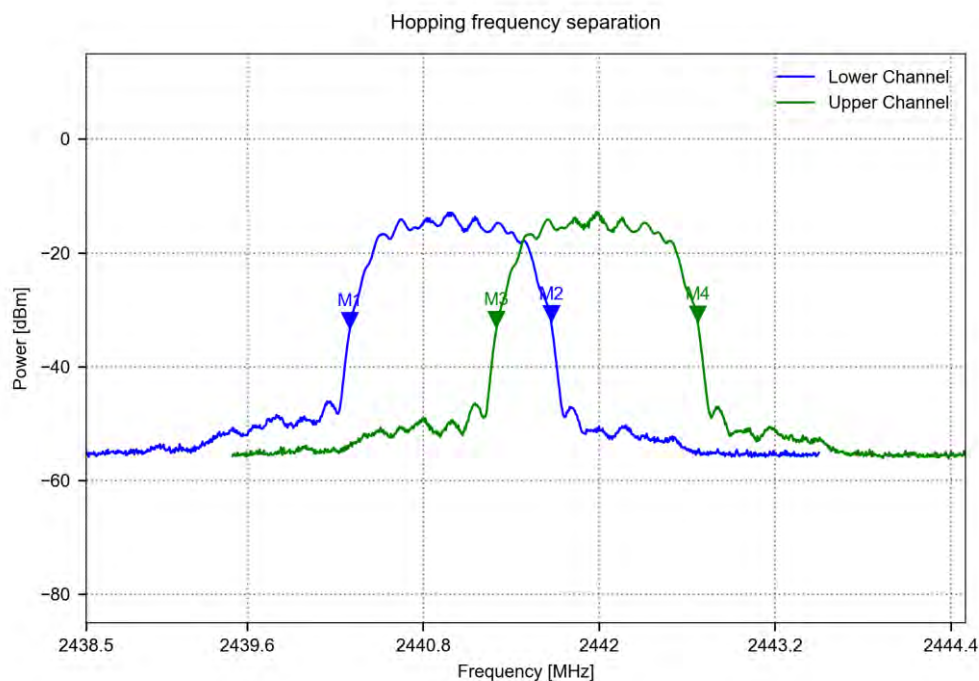
Hopping frequency separation

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44649
Reference Standards:	FCC 15.247(a)(1)
Reference Method:	ANSI C63.10:2013 7.8.2
Operational Mode:	Bluetooth, DH5, Channels: 2441 + 2442 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Burkhard Pudell
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-07-13
Lower Frequency (M1) [MHz]:	2440.460
Upper Frequency (M2) [MHz]:	2441.520
Lower Frequency (M3) [MHz]:	2441.460
Upper Frequency (M4) [MHz]:	2442.520
Lower center Frequency [MHz]:	2440.990
Upper center Frequency [MHz]:	2441.990
Hopping Frequency Separation [MHz]:	1.000



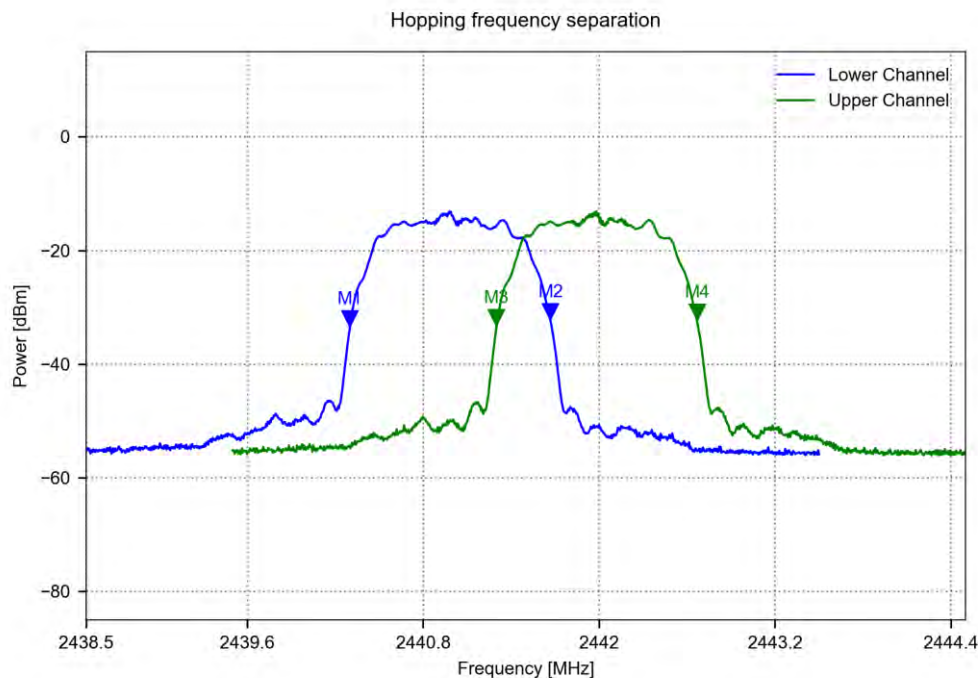
Hopping frequency separation

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44649
Reference Standards:	FCC 15.247(a)(1)
Reference Method:	ANSI C63.10:2013 7.8.2
Operational Mode:	Bluetooth, 2-DH5, Channels: 2441 + 2442 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Burkhard Pudell
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-07-13
Lower Frequency (M1) [MHz]:	2440.300
Upper Frequency (M2) [MHz]:	2441.675
Lower Frequency (M3) [MHz]:	2441.300
Upper Frequency (M4) [MHz]:	2442.675
Lower center Frequency [MHz]:	2440.988
Upper center Frequency [MHz]:	2441.988
Hopping Frequency Separation [MHz]:	1.000



Hopping frequency separation

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44649
Reference Standards:	FCC 15.247(a)(1)
Reference Method:	ANSI C63.10:2013 7.8.2
Operational Mode:	Bluetooth, 3-DH5, Channels: 2441 + 2442 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Burkhard Pudell
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-07-13
Lower Frequency (M1) [MHz]:	2440.300
Upper Frequency (M2) [MHz]:	2441.670
Lower Frequency (M3) [MHz]:	2441.300
Upper Frequency (M4) [MHz]:	2442.670
Lower center Frequency [MHz]:	2440.985
Upper center Frequency [MHz]:	2441.985
Hopping Frequency Separation [MHz]:	1.000



3.5 Test Conditions and Results - Time of occupancy (Dwell time)

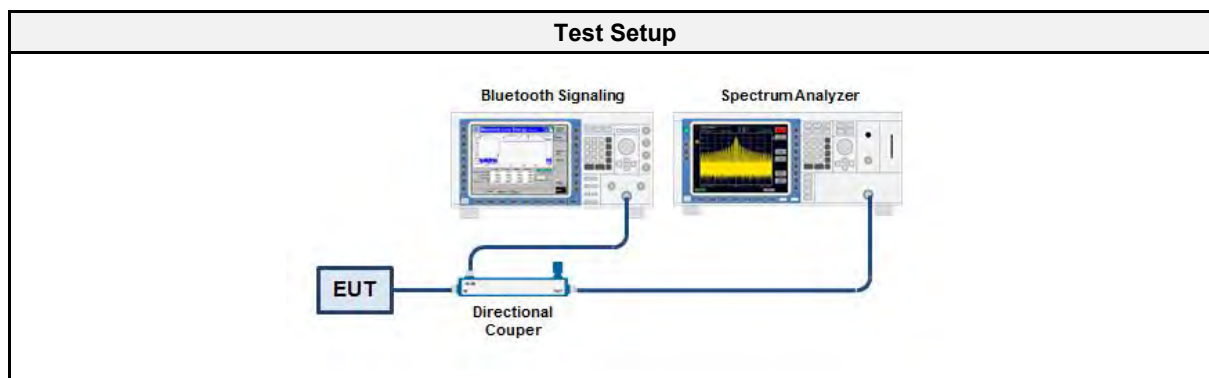
3.5.1 Information

Test Information	
Reference	FCC § 15.247(a)(1)(iii); ISED RSS-247, Issue 3 (section 5.1)
Measurement Method	ANSI C63.10 7.8.2
Measurement Uncertainty	± 78.53 %
Operator	Ehsan Sohrabi
Date	2023-07-13

3.5.2 Limits

Limits
≤ 0.4 s within 0.4 s · Number of hopping channels

3.5.3 Setup



3.5.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01003	2022-07	2023-07
Bluetooth signaling	R&S	CMW 270	EF01169	2022-04	2023-04
Cable (CAABF)	Gigalane	GIGALANE 1730	EF00779	2023-03	2024-03

3.5.5 Procedure

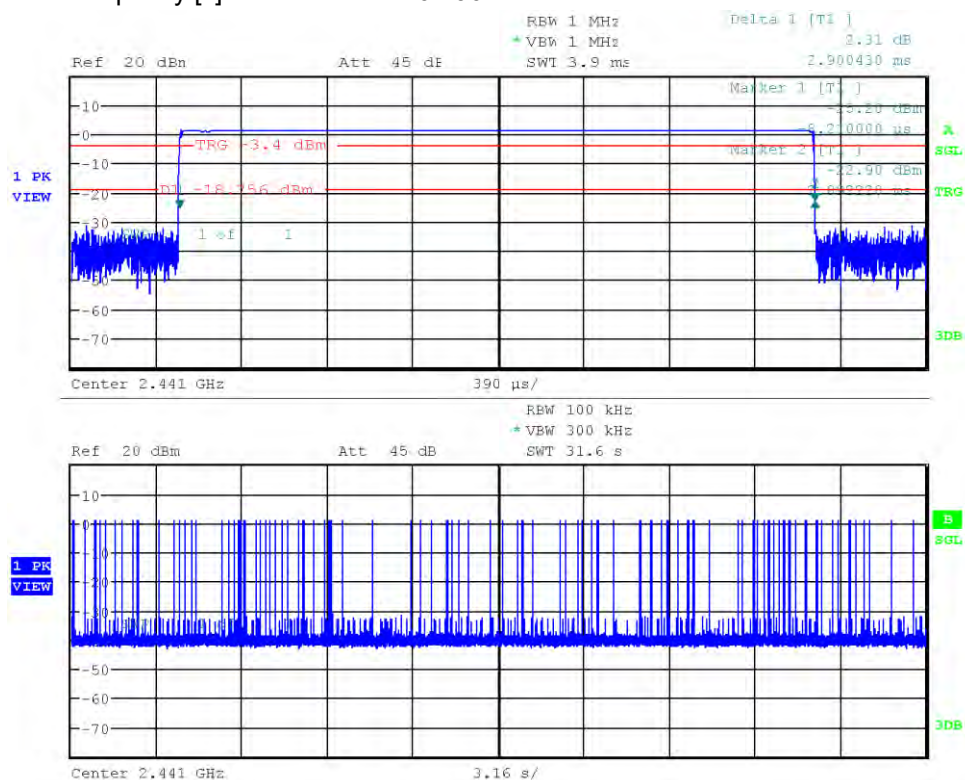
Test Procedure
- EUT set to test hopping mode (Communication tester is used if needed) - Analyzer span is set to zero span - Detector set to peak and max hold - RBW is set to 100 kHz and VBW to 300 kHz - The sweep time is set to capture one single dwell time - Trigger is set to video trigger - A marker is set to the start and end positions of the burst - The dwell time is determined from the marker difference - Another sweep is initiated without trigger and sweep time set to the observation time - The number of hops is counted - The total time of occupancy is calculated from the dwell time per hop multiplied by the number of hops

3.5.6 Results

Test Results					
Observation Period [s]	Number of Hops	Dwell time per Hop [s]	Time of occupancy [s]	Limit [s]	Margin [s]
31.6	100	0.0029	0.290	0.4	-0.11

Time of occupancy

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Method: ANSI C63.10:2013 7.8.4
 Operational Mode: DH5, Hopping mode
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Dwell Time per Hop [ms]: 2.900
 Number of Hops: 100
 Time of occupancy [s]: 0.290



Date: 13.JUL.2023 16:25:07

3.6 Test Conditions and Results - Maximum peak conducted output power

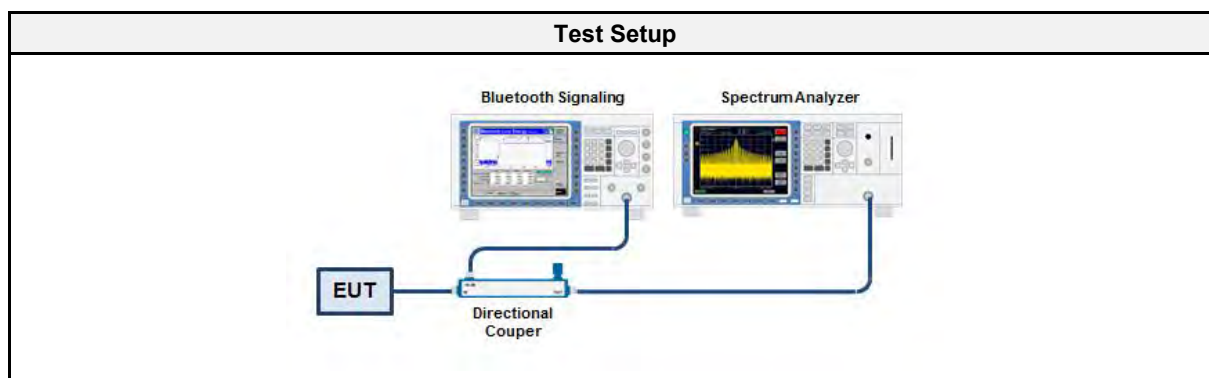
3.6.1 Information

Test Information	
Reference	FCC § 15.247(b); ISSED RSS-247, Issue 3 (section 5.4)
Measurement Method	ANSI C63.10 7.8.5
Measurement Uncertainty	± 2.86 dB
Operator	Ehsan Sohrabi
Date	2023-07-13

3.6.2 Limits

Limits	
Condition	Power
Number of hopping channels ≥ 75	1 W (30 dBm)
75 > Number of hopping channels ≥ 15	0.125 W (21 dBm)
The conducted output power limit specified above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in the table, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	

3.6.3 Setup



3.6.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01003	2022-07	2023-07
Bluetooth signaling	R&S	CMW 270	EF01169	2022-04	2023-04
Cable (CAABF)	Gigalane	GIGALANE 1730	EF00779	2023-03	2024-03

3.6.5 Procedure

Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Analyzer resolution bandwidth is set ≥ DTS bandwidth 3. Detector set to peak and max hold 4. Sweep time is set to auto 5. After the trace has stabilized a marker is set to peak of envelope

3.6.6 Results

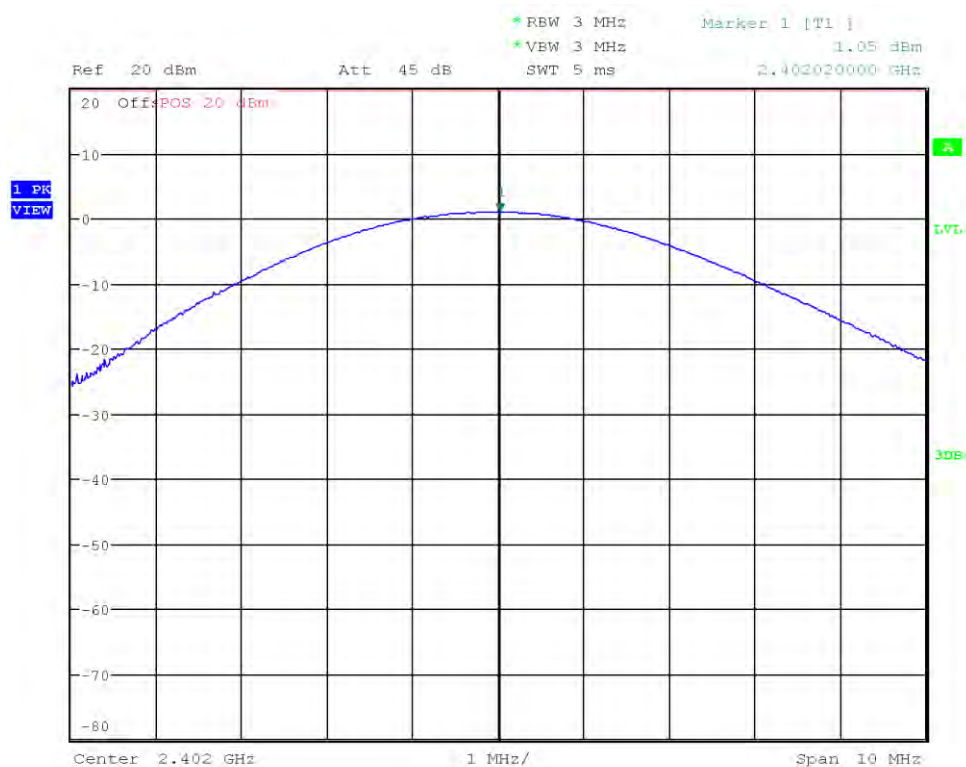
Test Results - DH5				
Channel [MHz]	Power [dBm]	Power [W]	Limit [W]	Verdict
2402	1.051	0.0013	1.0	PASS
2441	2.230	0.0017	1.0	PASS
2480	2.467	0.0018	1.0	PASS

Test Results - 2-DH5				
Channel [MHz]	Power [dBm]	Power [W]	Limit [W]	Verdict
2402	-0.630	0.0009	1.0	PASS
2441	0.817	0.0012	1.0	PASS
2480	1.035	0.0013	1.0	PASS

Test Results - 3-DH5				
Channel [MHz]	Power [dBm]	Power [W]	Limit [W]	Verdict
2402	-0.110	0.0010	1.0	PASS
2441	1.262	0.0013	1.0	PASS
2480	1.669	0.0015	1.0	PASS

Peak Conducted Output Power

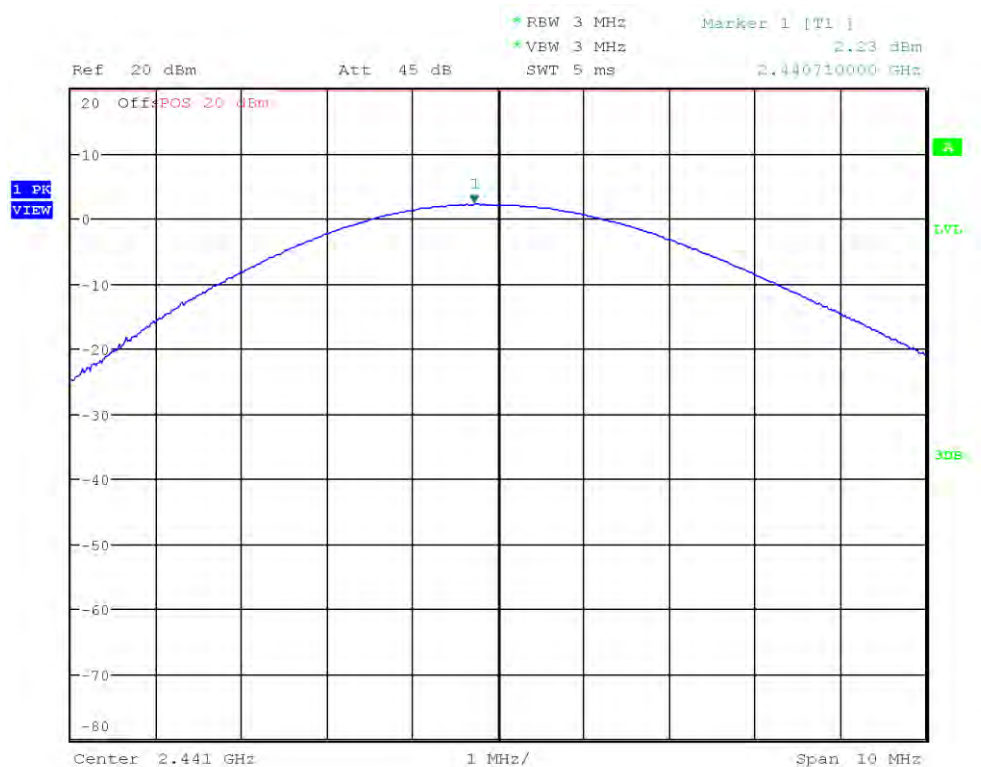
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.5
 Operational Mode: DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Peak Power [dBm]: 1.051
 Peak Power [W]: 0.0013



Date: 13.JUL.2023 15:03:33

Peak Conducted Output Power

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44649
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.5
Operational Mode:	DH5, Channel: 39, 2441 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Burkhard Pudell
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-07-13
Peak Power [dBm]:	2.230
Peak Power [W]:	0.0017



Date: 13.JUL.2023 15:04:46

Peak Conducted Output Power

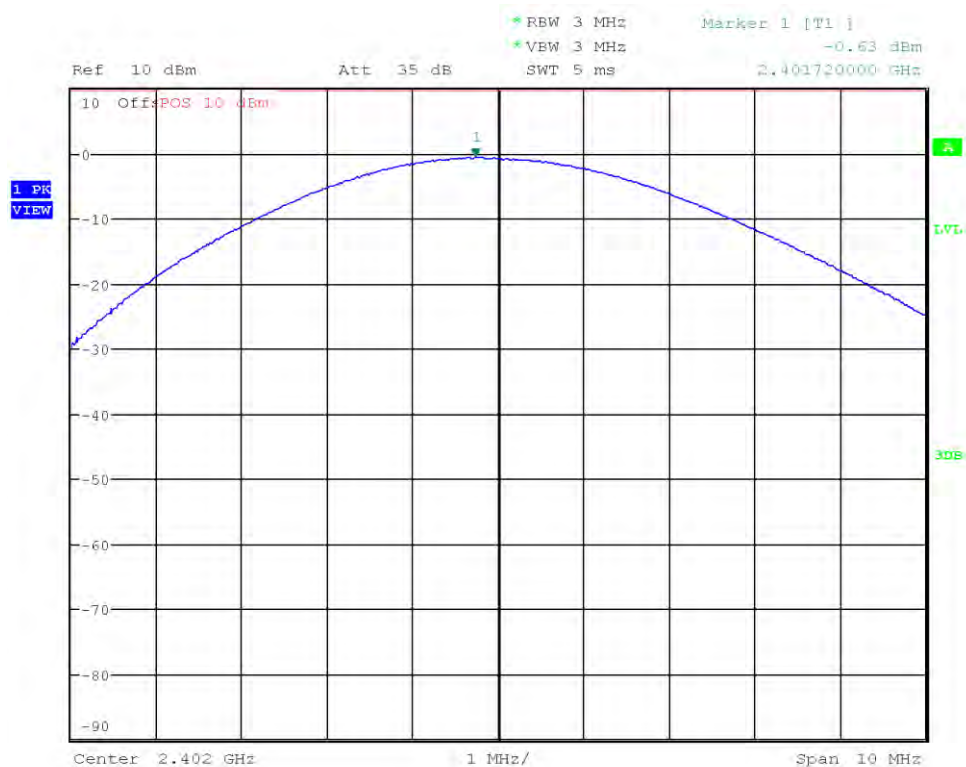
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.5
 Operational Mode: DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Peak Power [dBm]: 2.467
 Peak Power [W]: 0.0018



Date: 13.JUL.2023 15:05:42

Peak Conducted Output Power

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.5
 Operational Mode: 2-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Peak Power [dBm]: -0.630
 Peak Power [W]: 0.0009



Date: 13.JUL.2023 15:07:00

Peak Conducted Output Power

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.5
 Operational Mode: 2-DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Peak Power [dBm]: 0.817
 Peak Power [W]: 0.0012



Date: 13.JUL.2023 15:07:54

Peak Conducted Output Power

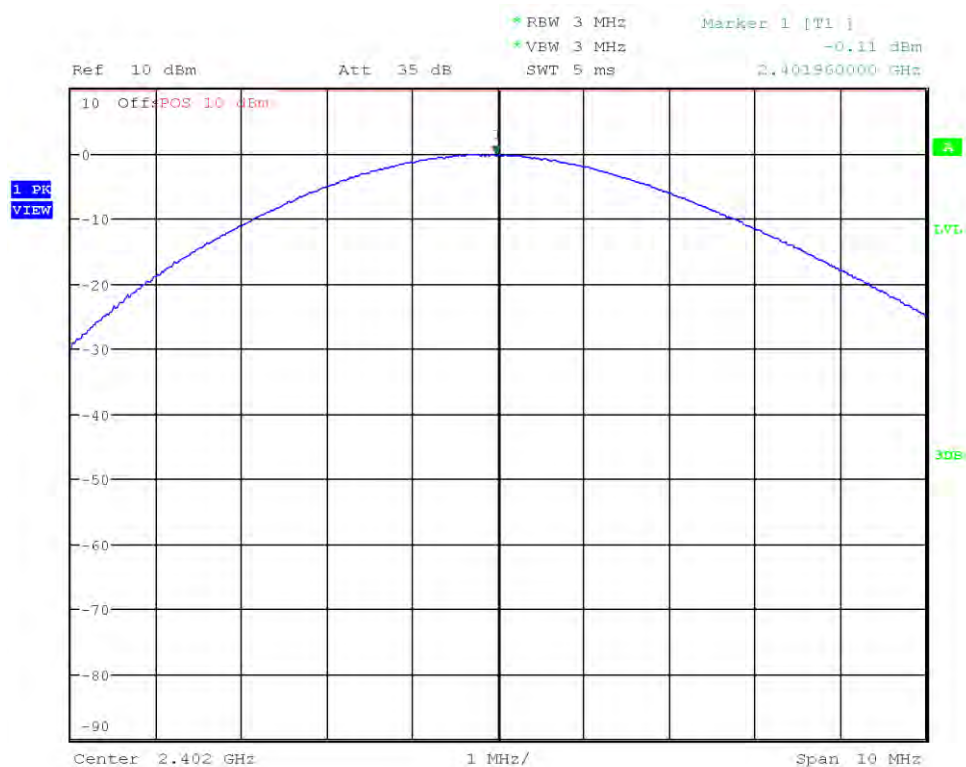
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.5
 Operational Mode: 2-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Peak Power [dBm]: 1.035
 Peak Power [W]: 0.0013



Date: 13.JUL.2023 15:08:40

Peak Conducted Output Power

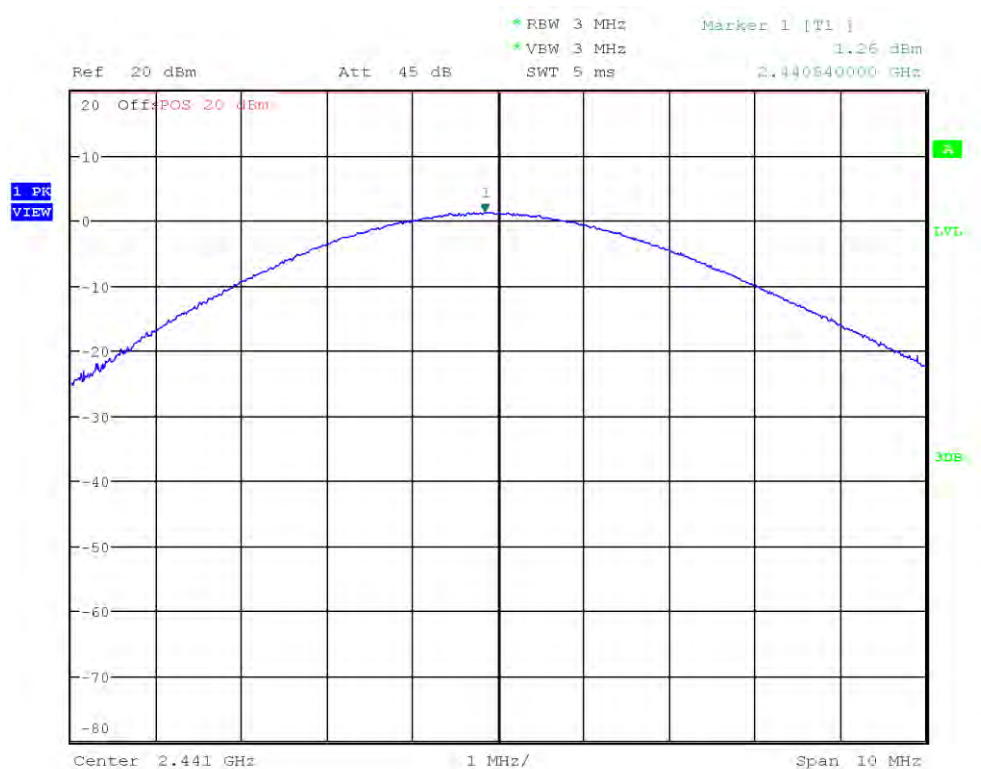
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.5
 Operational Mode: 3-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Peak Power [dBm]: -0.110
 Peak Power [W]: 0.0010



Date: 13.JUL.2023 15:13:58

Peak Conducted Output Power

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.5
 Operational Mode: 3-DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Peak Power [dBm]: 1.262
 Peak Power [W]: 0.0013



Date: 13.JUL.2023 15:15:07

Peak Conducted Output Power

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.5
 Operational Mode: 3-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-13
 Peak Power [dBm]: 1.669
 Peak Power [W]: 0.0015



Date: 13.JUL.2023 15:16:33

3.7 Test Conditions and Results - Band-edge compliance

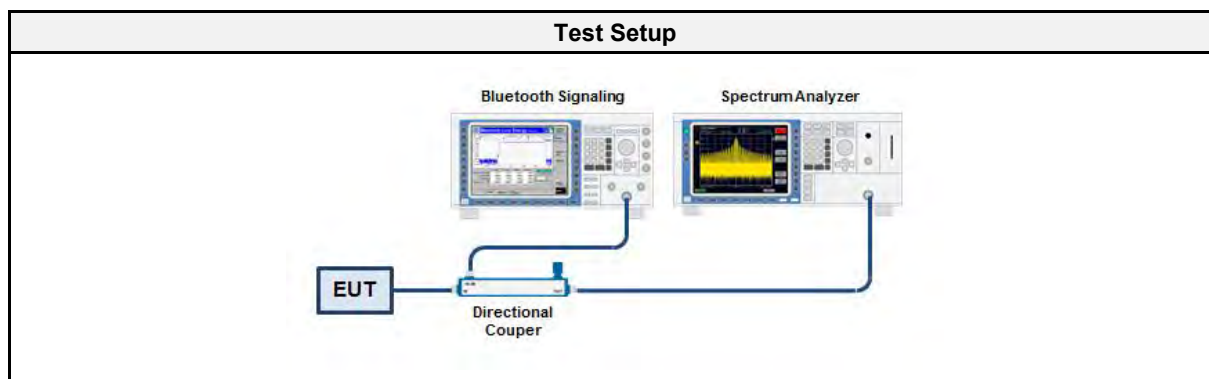
3.7.1 Information

Test Information	
Reference	FCC § 15.247(d); ISED RSS-247, Issue 3 (section 5.5)
Measurement Uncertainty	± 3.64 dB
Measurement Method	ANSI C63.10 6.10
Operator	Ehsan Sohrabi
Date	2023-07-14

3.7.2 Limits

Limits	
Power Measurement	Out-of-band attenuation [dB]
Peak	20
RMS	30

3.7.3 Setup



3.7.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01003	2022-07	2023-07
Bluetooth signaling	R&S	CMW 270	EF01169	2022-04	2023-04
Cable (CAABF)	Gigalane	GIGALANE 1730	EF00779	2023-03	2024-03

3.7.5 Procedure

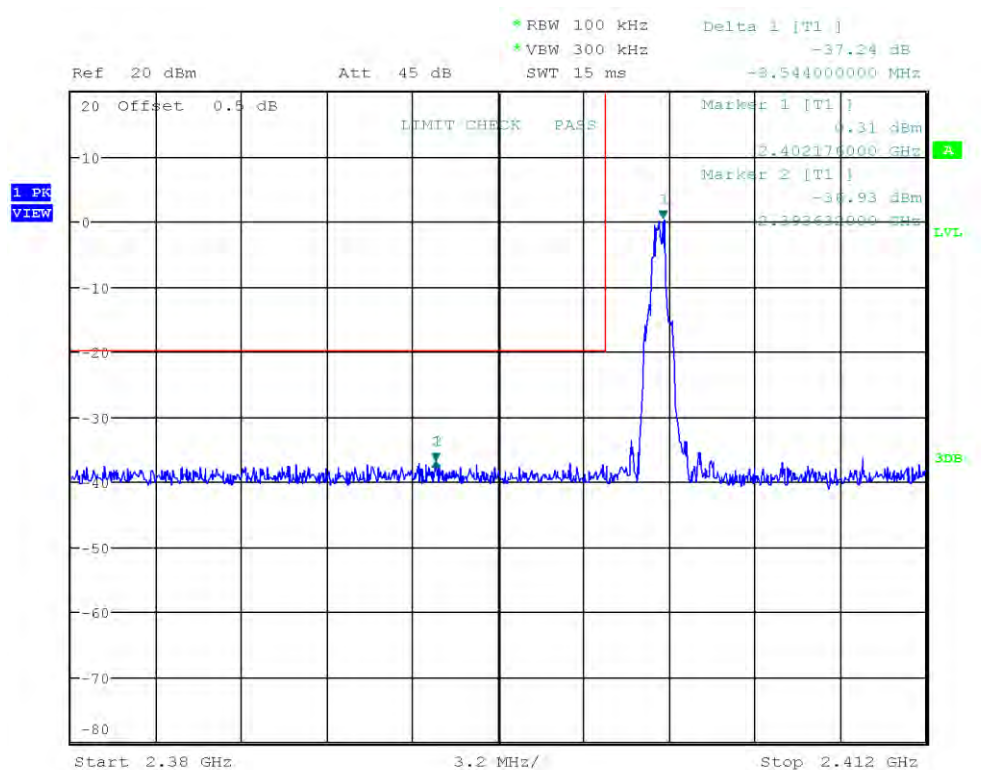
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels within frequency band and outside frequency band 5. Band edge attenuation is determined from level difference

3.7.6 Results

Test Results				
Mode	Channel [MHz]	Out-of-band Attenuation [dB]	Limit [dB]	Verdict
DH5 single	2402	-37.24	-20	PASS
DH5 single	2480	-38.12	-20	PASS
DH5 hopping	2402	-36.72	-20	PASS
DH5 hopping	2480	-37.28	-20	PASS
2-DH5 single	2402	-42.56	-20	PASS
2-DH5 single	2480	-34.22	-20	PASS
2-DH5 hopping	2402	-35.12	-20	PASS
2-DH5 hopping	2480	-35.04	-20	PASS
3-DH5 single	2402	-33.10	-20	PASS
3-DH5 single	2480	-34.16	-20	PASS
3-DH5 hopping	2402	-34.68	-20	PASS
3-DH5 hopping	2480	-33.79	-20	PASS

Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44649
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	DH5, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Burkhard Pudell
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-07-14
Band-edge	Lower
In-band Frequency [MHz]:	2402.176
Max. in-band Level [dBm/100 kHz]:	0.313
Out-of-band Frequency [MHz]:	2393.632
Max. out-of-band Level [dBm/100 kHz]:	-36.928
Attenuation [dB]:	-37.24



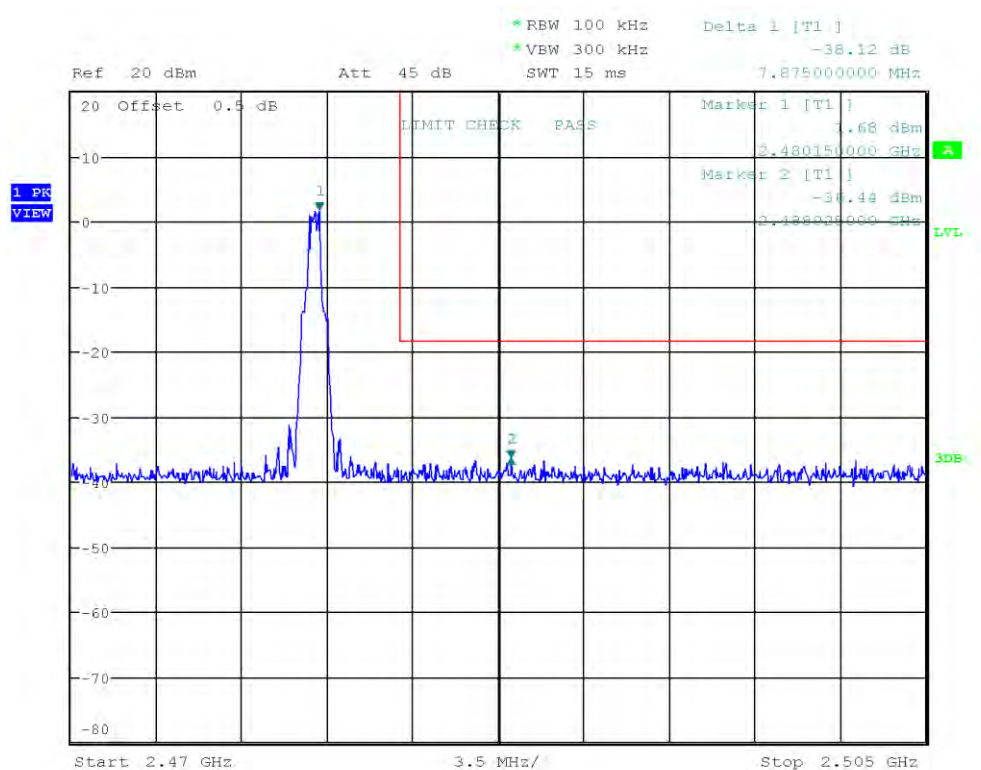
Date: 14.JUL.2023 12:48:55

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44649
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	DH5, Channel: 78, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Burkhard Pudell
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-07-14
Band-edge	Upper
In-band Frequency [MHz]:	2480.15
Max. in-band Level [dBm/100 kHz]:	1.684
Out-of-band Frequency [MHz]:	2488.025
Max. out-of-band Level [dBm/100 kHz]:	-36.44
Attenuation [dB]:	-38.12



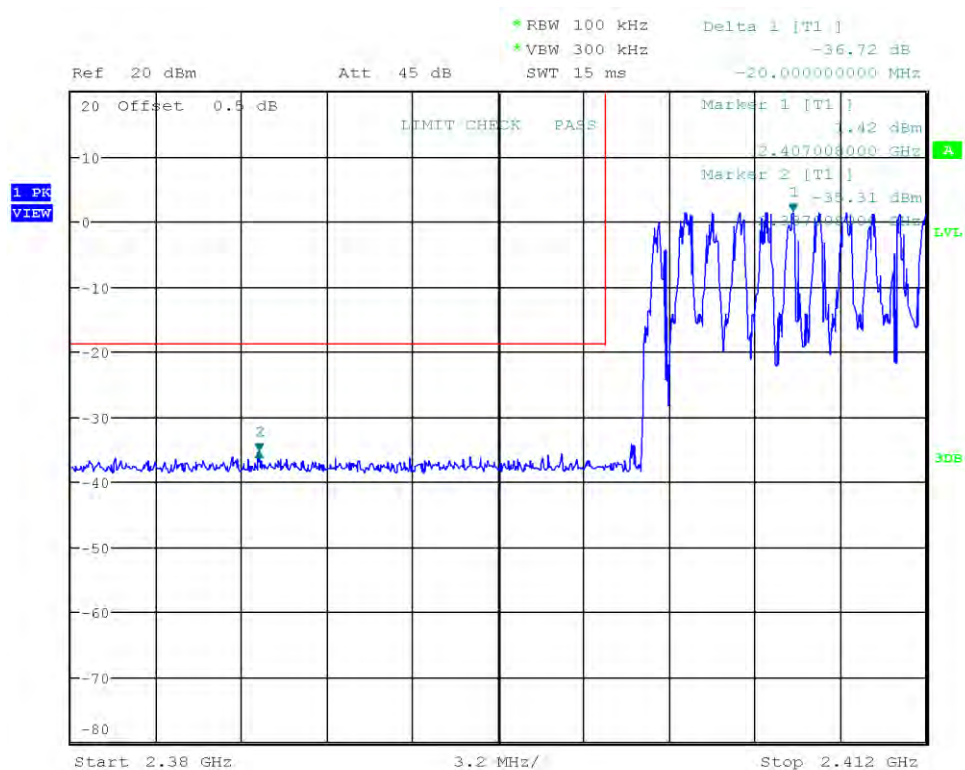
Date: 14.JUL.2023 12:49:52

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44649
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	DH5, Hopping
Operating Conditions:	Tnom/Vnom
Operator:	Burkhard Pudell
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-07-14
Band-edge	Lower
In-band Frequency [MHz]:	2407.008
Max. in-band Level [dBm/100 kHz]:	1.416
Out-of-band Frequency [MHz]:	2387.008
Max. out-of-band Level [dBm/100 kHz]:	-35.308
Attenuation [dB]:	-36.72



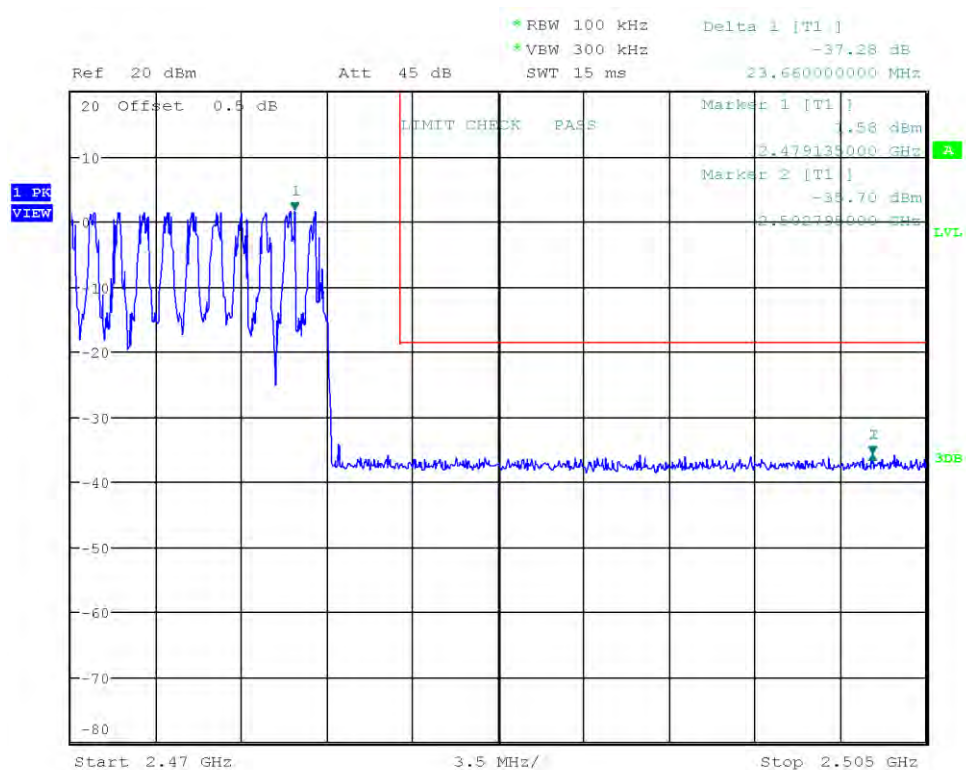
Date: 14.JUL.2023 12:56:48

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44649
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	DH5, Hopping
Operating Conditions:	Tnom/Vnom
Operator:	Burkhard Pudell
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-07-14
Band-edge	Upper
In-band Frequency [MHz]:	2479.135
Max. in-band Level [dBm/100 kHz]:	1.582
Out-of-band Frequency [MHz]:	2502.795
Max. out-of-band Level [dBm/100 kHz]:	-35.697
Attenuation [dB]:	-37.28



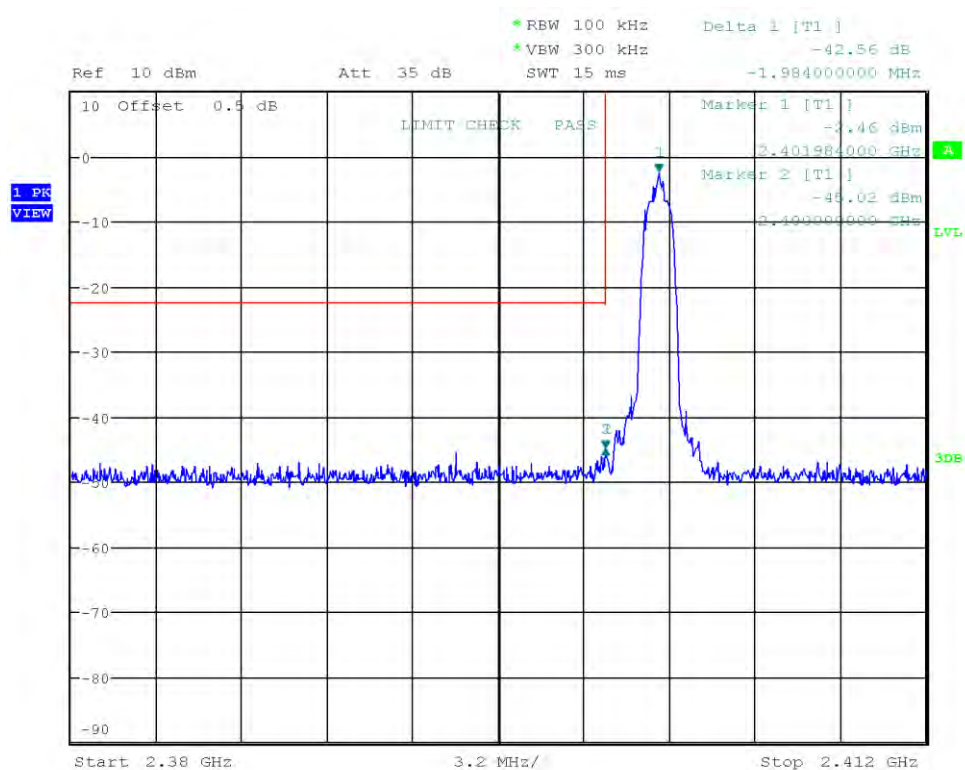
Date: 14.JUL.2023 13:14:44

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44649
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	2-DH5, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Burkhard Pudell
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-07-14
Band-edge	Lower
In-band Frequency [MHz]:	2401.984
Max. in-band Level [dBm/100 kHz]:	-2.464
Out-of-band Frequency [MHz]:	2400.0
Max. out-of-band Level [dBm/100 kHz]:	-45.025
Attenuation [dB]:	-42.56



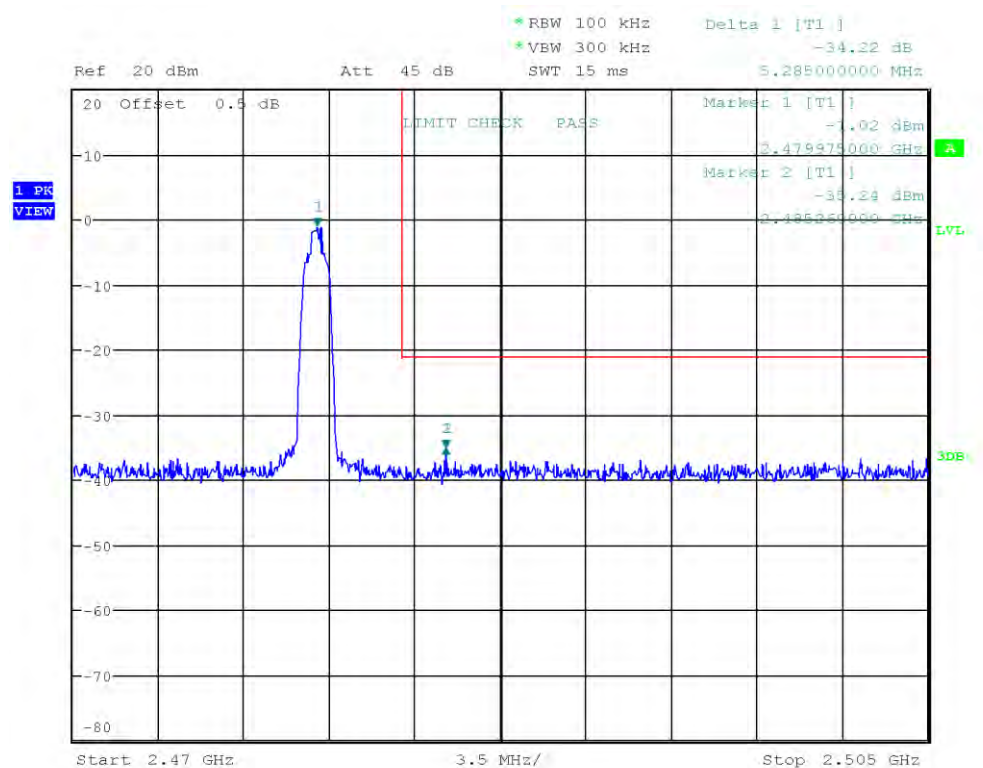
Date: 14.JUL.2023 13:16:56

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44649
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	2-DH5, Channel: 78, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Burkhard Pudell
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-07-14
Band-edge	Upper
In-band Frequency [MHz]:	2479.975
Max. in-band Level [dBm/100 kHz]:	-1.019
Out-of-band Frequency [MHz]:	2485.26
Max. out-of-band Level [dBm/100 kHz]:	-35.24
Attenuation [dB]:	-34.22



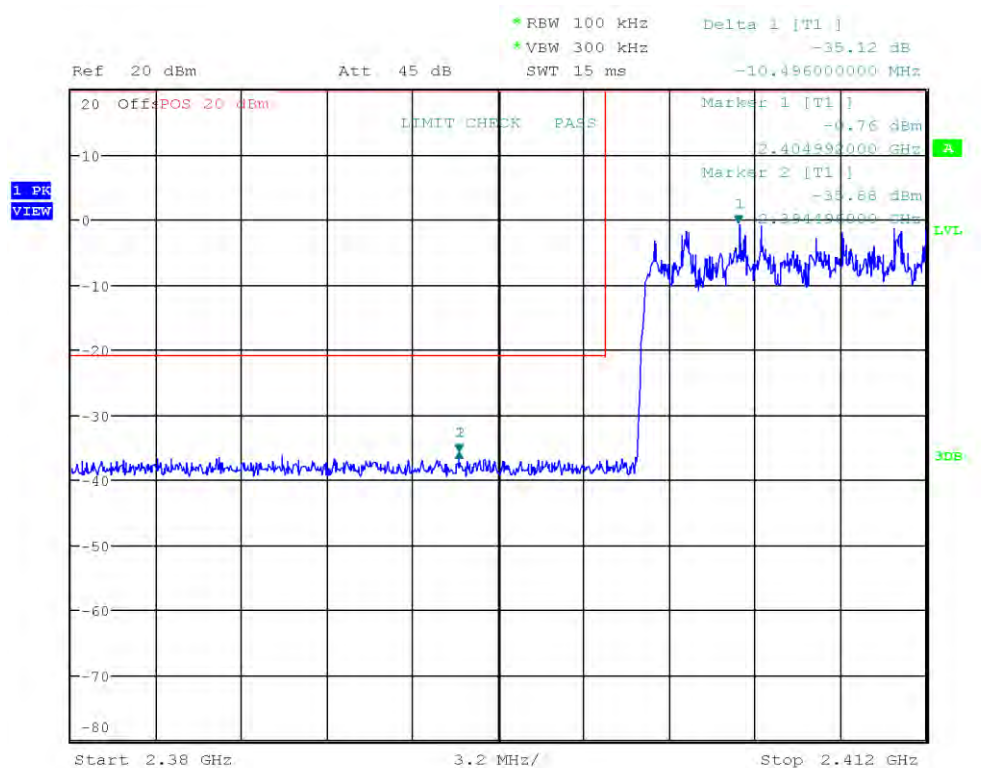
Date: 14.JUL.2023 13:17:55

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44649
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	2-DH5, Hopping
Operating Conditions:	Tnom/Vnom
Operator:	Burkhard Pudell
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-07-14
Band-edge	Lower
In-band Frequency [MHz]:	2404.992
Max. in-band Level [dBm/100 kHz]:	-0.756
Out-of-band Frequency [MHz]:	2394.496
Max. out-of-band Level [dBm/100 kHz]:	-35.879
Attenuation [dB]:	-35.12



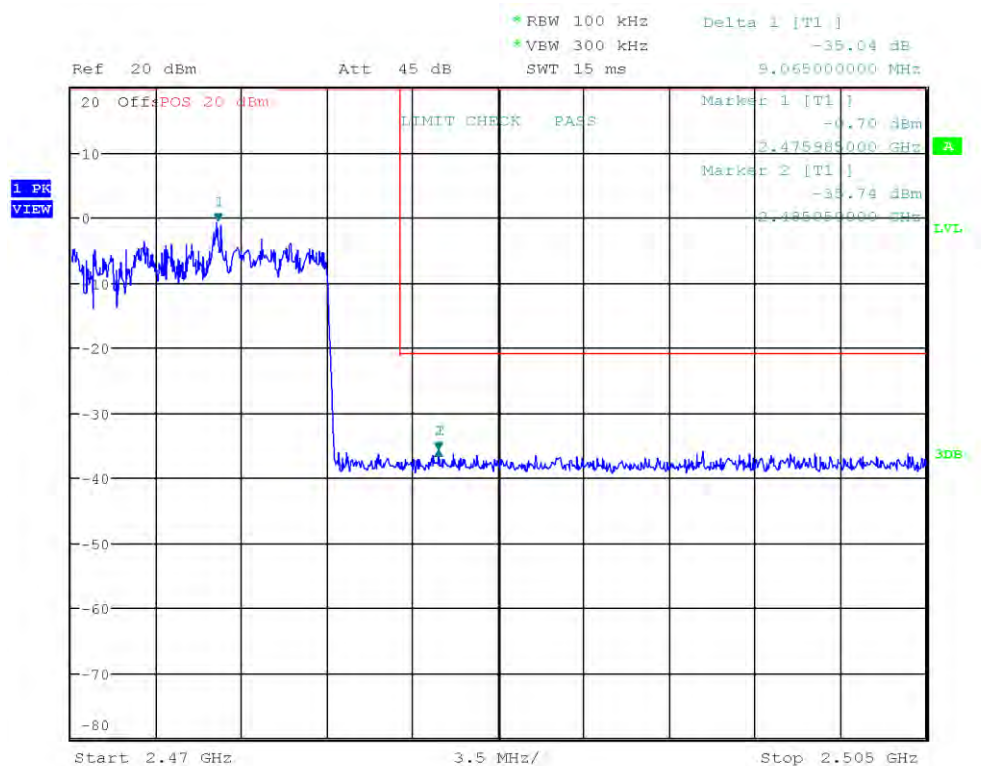
Date: 14.JUL.2023 13:20:11

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44649
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	2-DH5, Hopping
Operating Conditions:	Tnom/Vnom
Operator:	Burkhard Pudell
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-07-14
Band-edge	Upper
In-band Frequency [MHz]:	2475.985
Max. in-band Level [dBm/100 kHz]:	-0.698
Out-of-band Frequency [MHz]:	2485.05
Max. out-of-band Level [dBm/100 kHz]:	-35.74
Attenuation [dB]:	-35.04



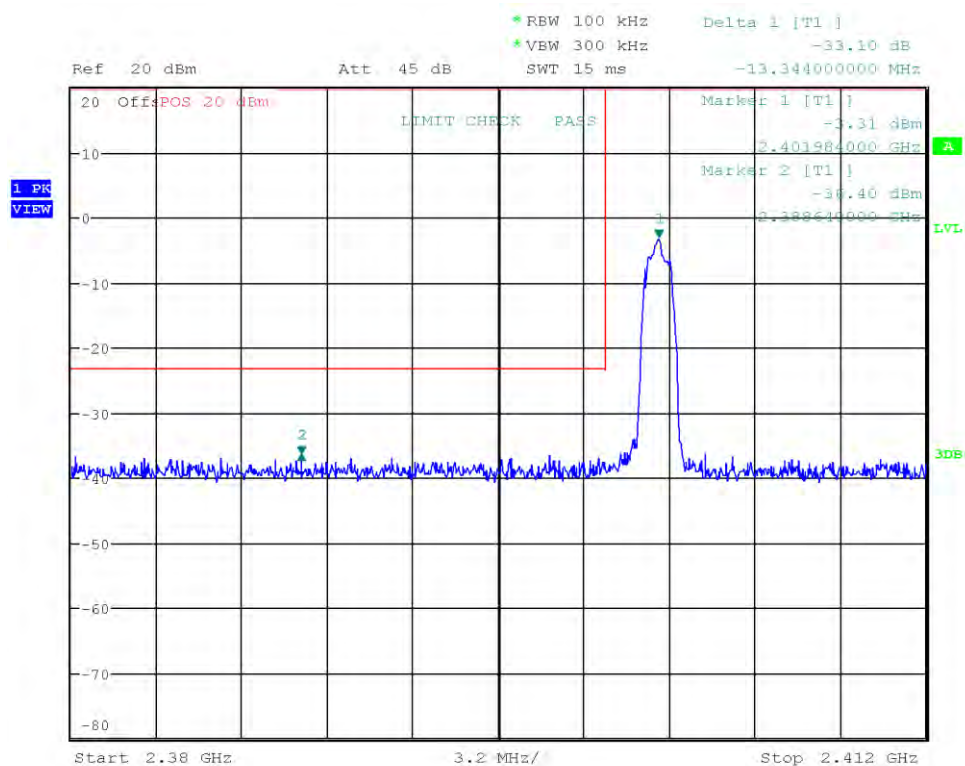
Date: 14.JUL.2023 13:22:40

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44649
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	3-DH5, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Burkhard Pudell
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-07-14
Band-edge	Lower
In-band Frequency [MHz]:	2401.984
Max. in-band Level [dBm/100 kHz]:	-3.306
Out-of-band Frequency [MHz]:	2388.64
Max. out-of-band Level [dBm/100 kHz]:	-36.405
Attenuation [dB]:	-33.1



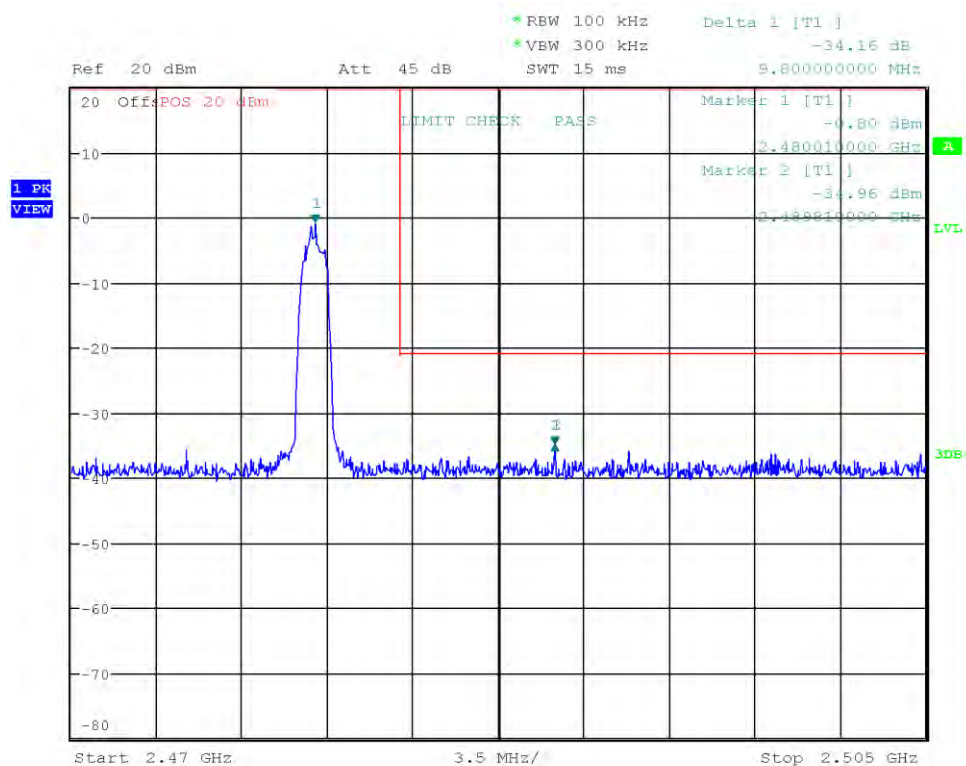
Date: 14.JUL.2023 13:29:58

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44649
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	3-DH5, Channel: 78, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Burkhard Pudell
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-07-14
Band-edge	Upper
In-band Frequency [MHz]:	2480.01
Max. in-band Level [dBm/100 kHz]:	-0.8
Out-of-band Frequency [MHz]:	2489.81
Max. out-of-band Level [dBm/100 kHz]:	-34.96
Attenuation [dB]:	-34.16



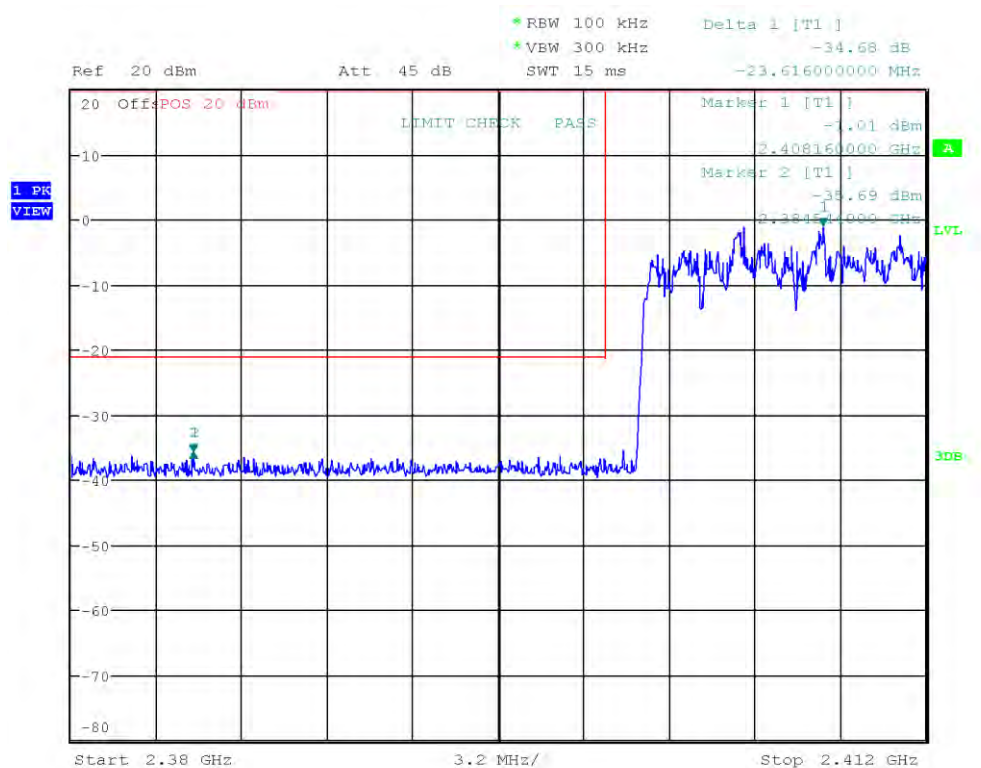
Date: 14.JUL.2023 13:31:03

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44649
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	3-DH5, Hopping
Operating Conditions:	Tnom/Vnom
Operator:	Burkhard Pudell
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-07-14
Band-edge	Lower
In-band Frequency [MHz]:	2408.16
Max. in-band Level [dBm/100 kHz]:	-1.015
Out-of-band Frequency [MHz]:	2384.544
Max. out-of-band Level [dBm/100 kHz]:	-35.695
Attenuation [dB]:	-34.68



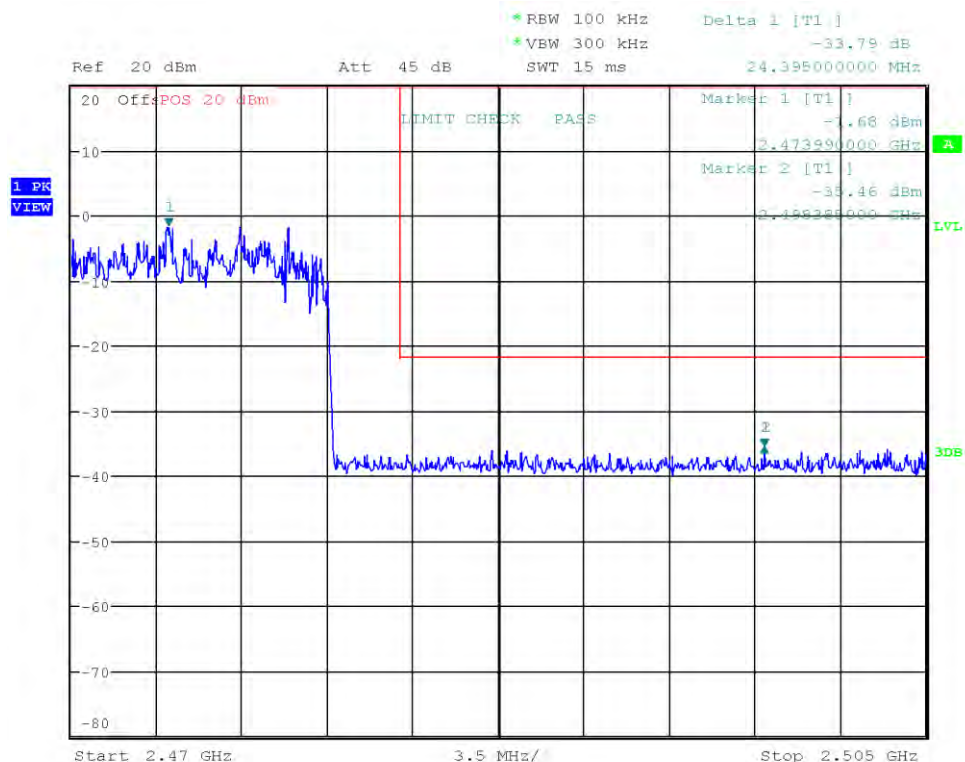
Date: 14.JUL.2023 13:32:54

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Emissions in nonrestricted frequency bands at the Band-edge

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operational Mode: 3-DH5, Hopping
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-14
 Band-edge: Upper
 In-band Frequency [MHz]: 2473.99
 Max. in-band Level [dBm/100 kHz]: -1.678
 Out-of-band Frequency [MHz]: 2498.385
 Max. out-of-band Level [dBm/100 kHz]: -35.463
 Attenuation [dB]: -33.79



Date: 14.JUL.2023 13:35:05

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

3.8 Test Conditions and Results - Conducted spurious emissions

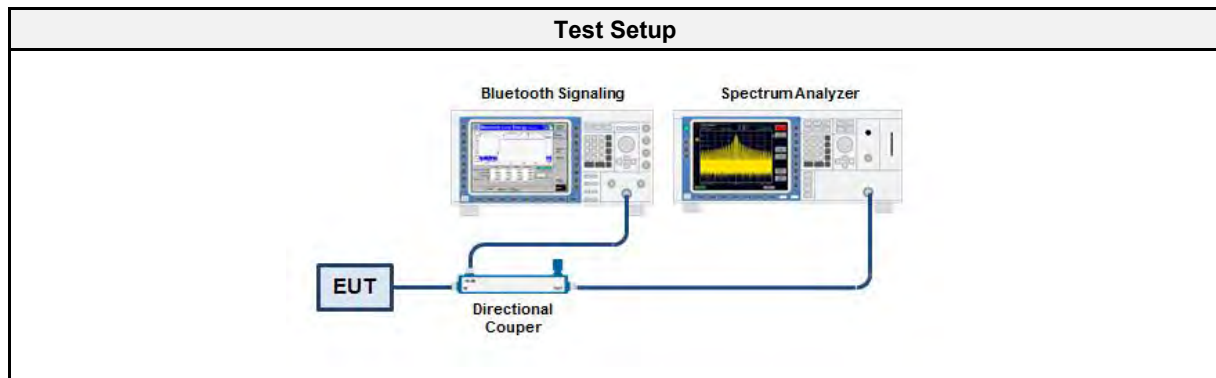
3.8.1 Information

Test Information	
Reference	FCC § 15.247(d); ISSED RSS-247, Issue 3 (section 5.5)
Measurement Uncertainty	± 4.25 dB
Measurement Method	ANSI C63.10 6.10
Operator	Ehsan Sohrabi
Date	2023-07-14

3.8.2 Limits

Limits	
Power Measurement	Out-of-band attenuation [dB]
Peak	20
RMS	30

3.8.3 Setup



3.8.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01003	2022-07	2023-07
Bluetooth signaling	R&S	CMW 270	EF01169	2022-04	2023-04
Cable (CAABY)	Sucoflex	SUCOFLEX 1102EA	EF00779	2023-03	2024-03

3.8.5 Procedure

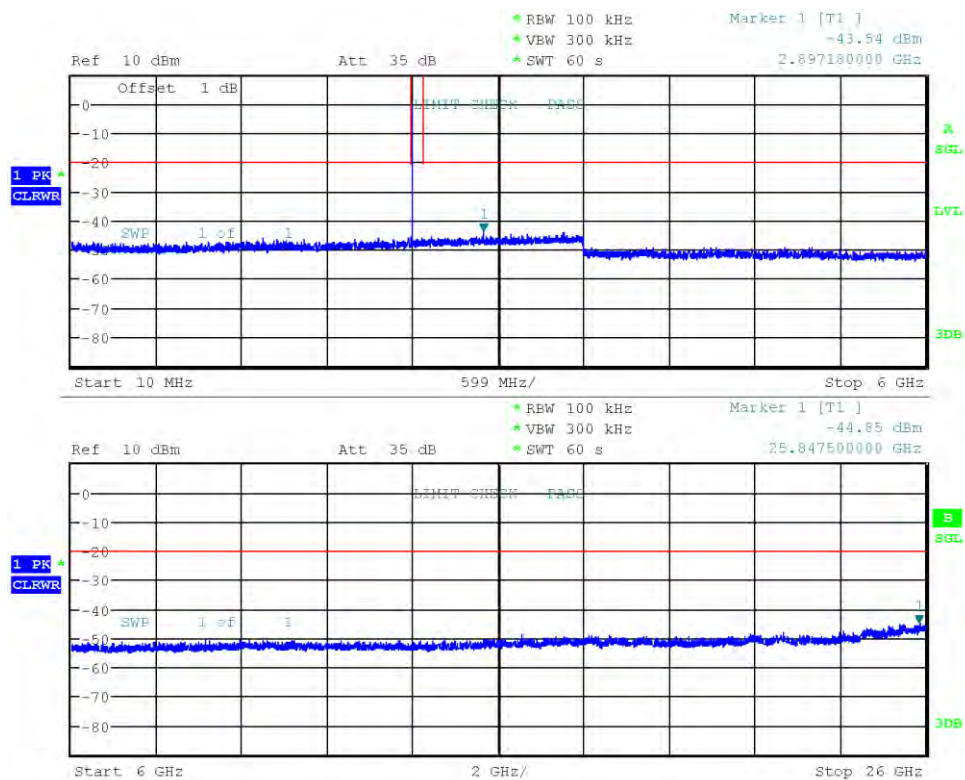
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels outside frequency band

3.8.6 Results

Test Results		
Mode	Channel [MHz]	Verdict
DH5	2402	PASS
DH5	2441	PASS
DH5	2480	PASS
2-DH5	2402	PASS
2-DH5	2441	PASS
2-DH5	2480	PASS
3-DH5	2402	PASS
3-DH5	2441	PASS
3-DH5	2480	PASS

Conducted Spurious Emissions

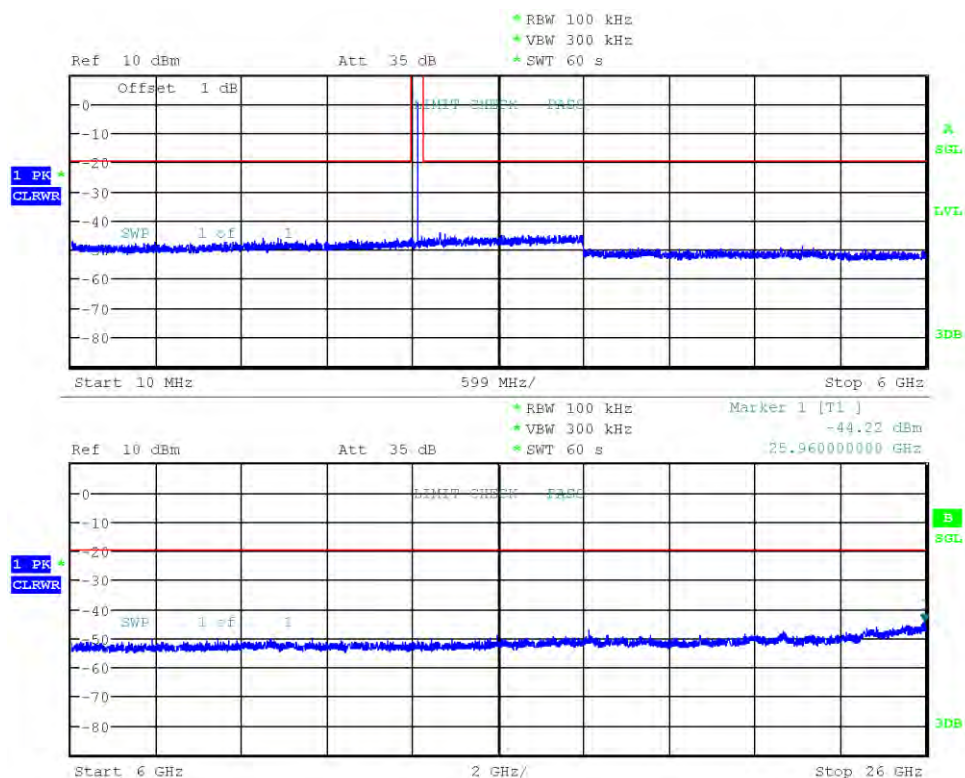
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-14
 Max. in-band Frequency [MHz]: 2402.2
 Max. in-band Level [dBm/100 kHz]: -0.4
 Out-of-band Limit [dBm/100 kHz]: -20.4



Date: 14.JUL.2023 14:04:03

Conducted Spurious Emissions

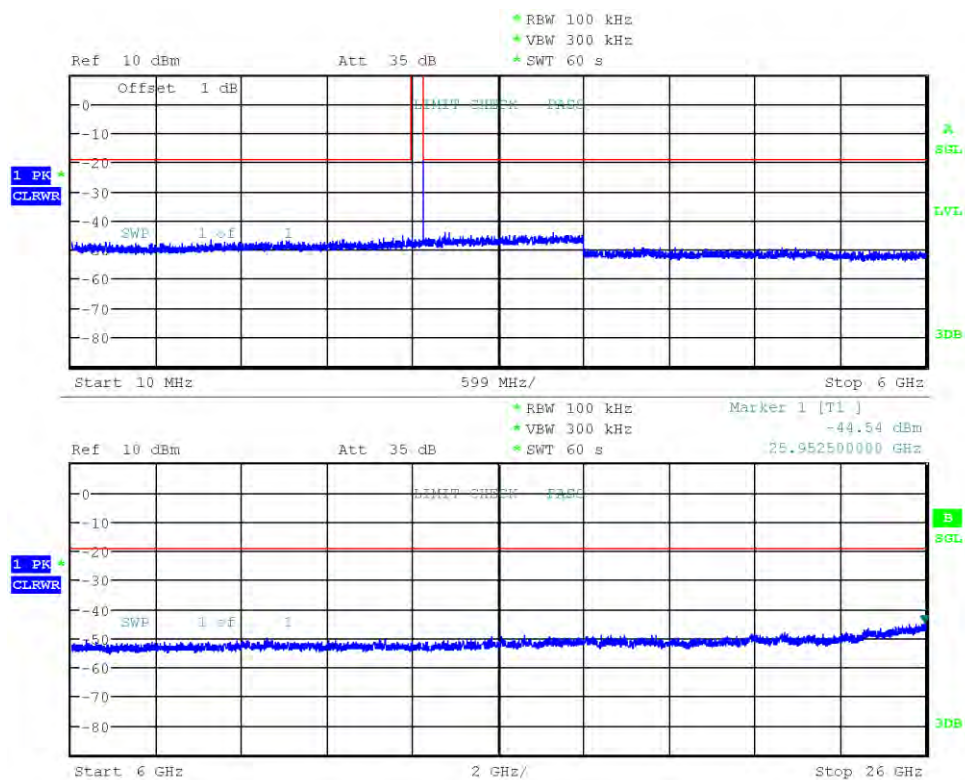
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: DH5, Channel: 39, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-14
 Max. in-band Frequency [MHz]: 2441.0
 Max. in-band Level [dBm/100 kHz]: 0.7
 Out-of-band Limit [dBm/100 kHz]: -19.3



Date: 14.JUL.2023 14:23:01

Conducted Spurious Emissions

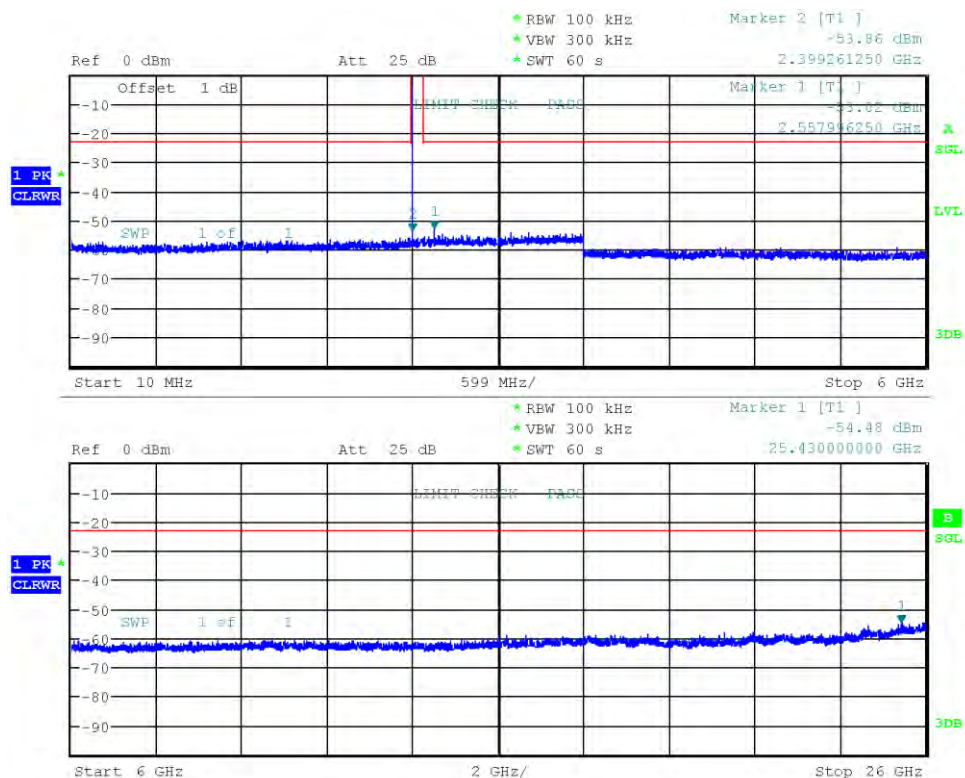
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-14
 Max. in-band Frequency [MHz]: 2480.2
 Max. in-band Level [dBm/100 kHz]: 1.2
 Out-of-band Limit [dBm/100 kHz]: -18.8



Date: 14.JUL.2023 14:28:38

Conducted Spurious Emissions

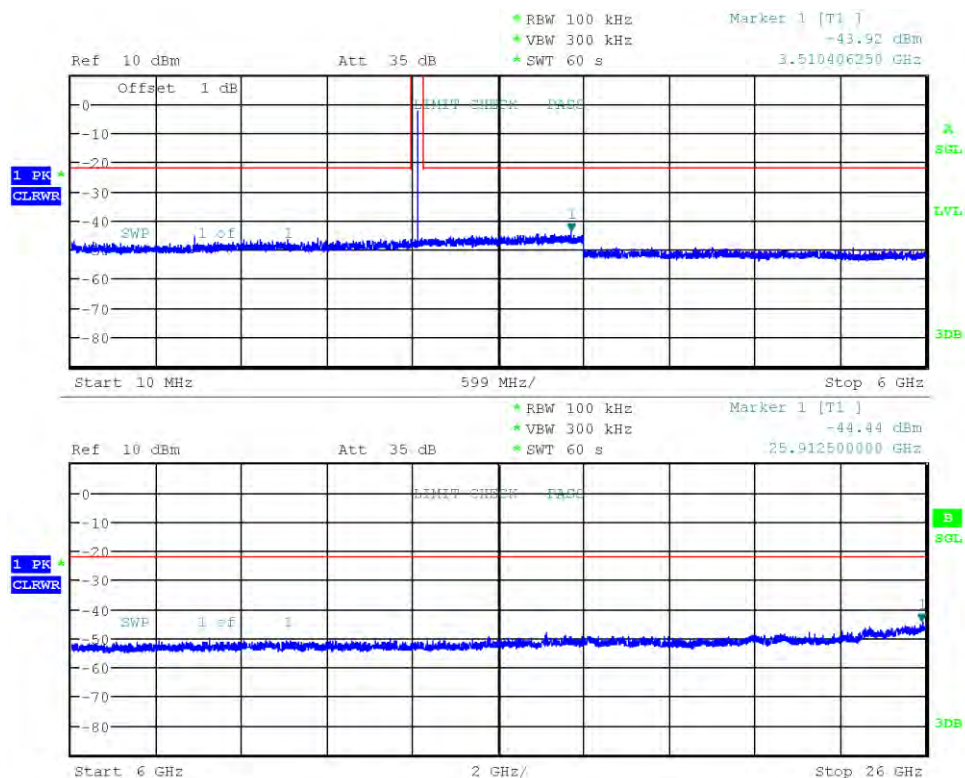
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: 2-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-14
 Max. in-band Frequency [MHz]: 2402.0
 Max. in-band Level [dBm/100 kHz]: -3.0
 Out-of-band Limit [dBm/100 kHz]: -23.0



Date: 14.JUL.2023 14:31:47

Conducted Spurious Emissions

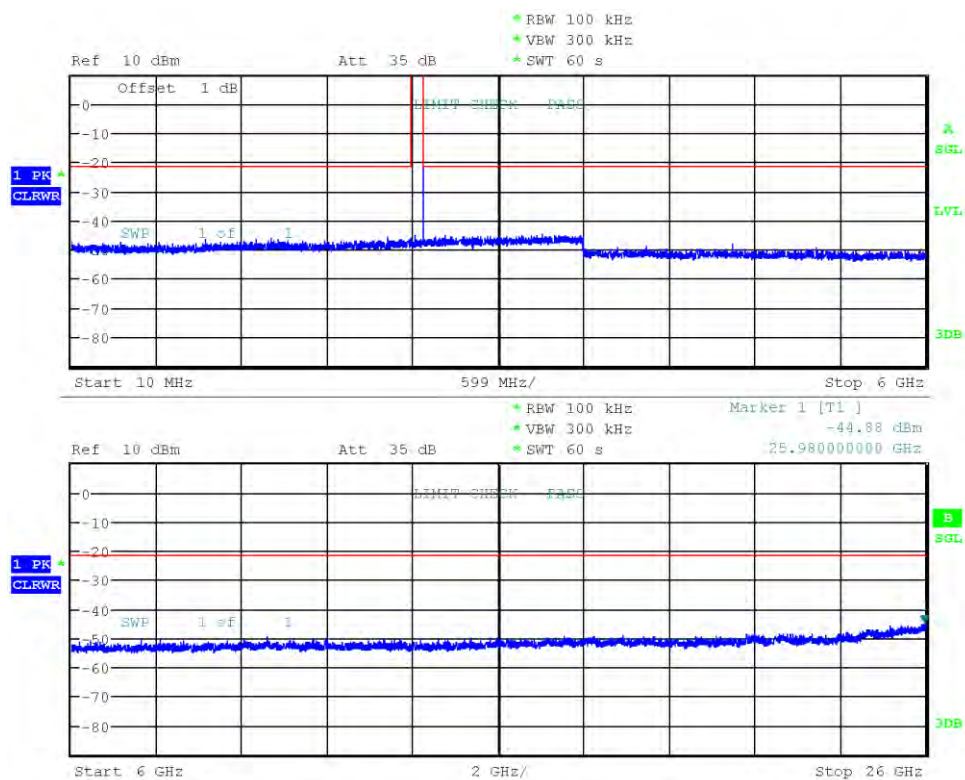
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: 2-DH5, Channel: 39, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-14
 Max. in-band Frequency [MHz]: 2441.0
 Max. in-band Level [dBm/100 kHz]: -1.7
 Out-of-band Limit [dBm/100 kHz]: -21.7



Date: 14.JUL.2023 14:52:21

Conducted Spurious Emissions

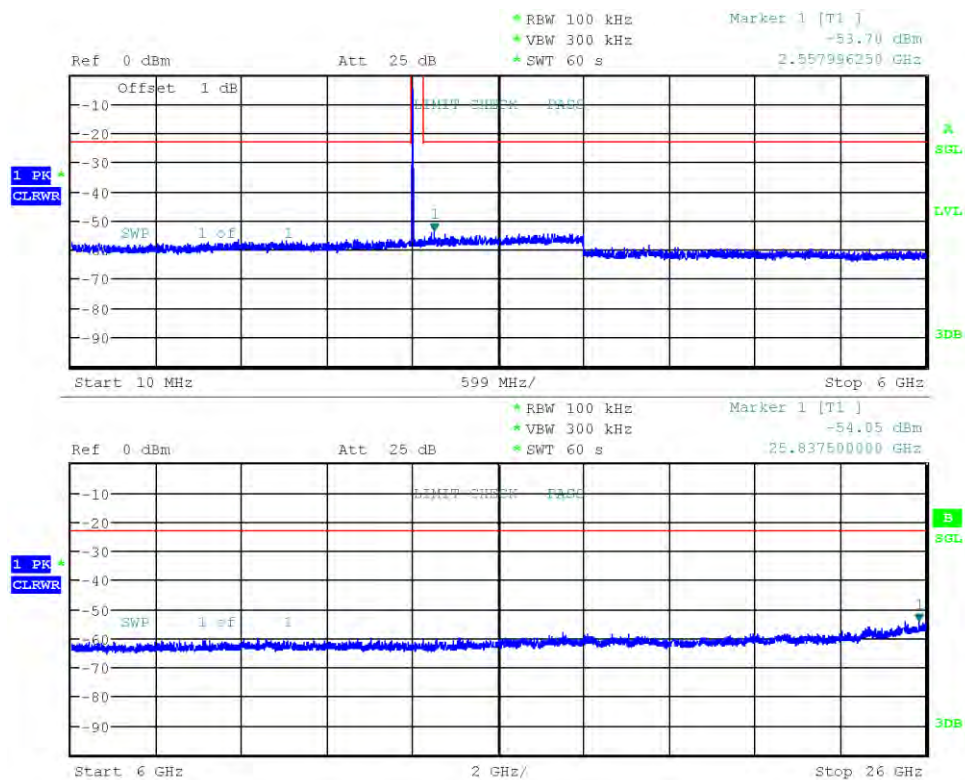
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: 2-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-14
 Max. in-band Frequency [MHz]: 2480.0
 Max. in-band Level [dBm/100 kHz]: -1.3
 Out-of-band Limit [dBm/100 kHz]: -21.3



Date: 14.JUL.2023 14:55:51

Conducted Spurious Emissions

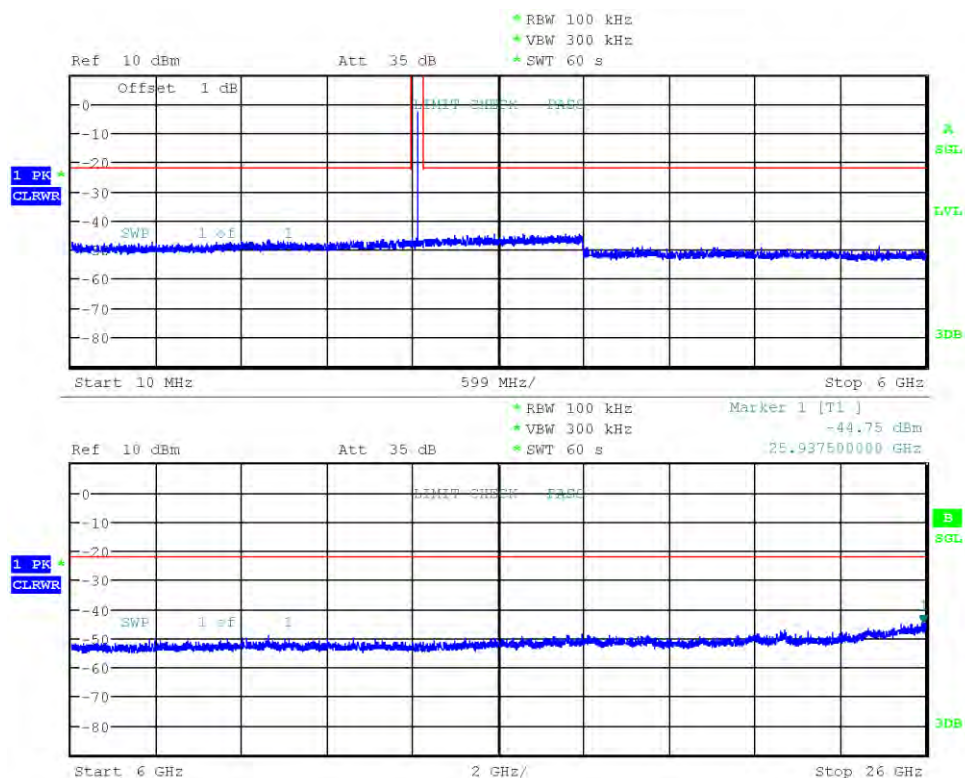
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: 3-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-14
 Max. in-band Frequency [MHz]: 2402.2
 Max. in-band Level [dBm/100 kHz]: -3.1
 Out-of-band Limit [dBm/100 kHz]: -23.1



Date: 14.JUL.2023 14:59:52

Conducted Spurious Emissions

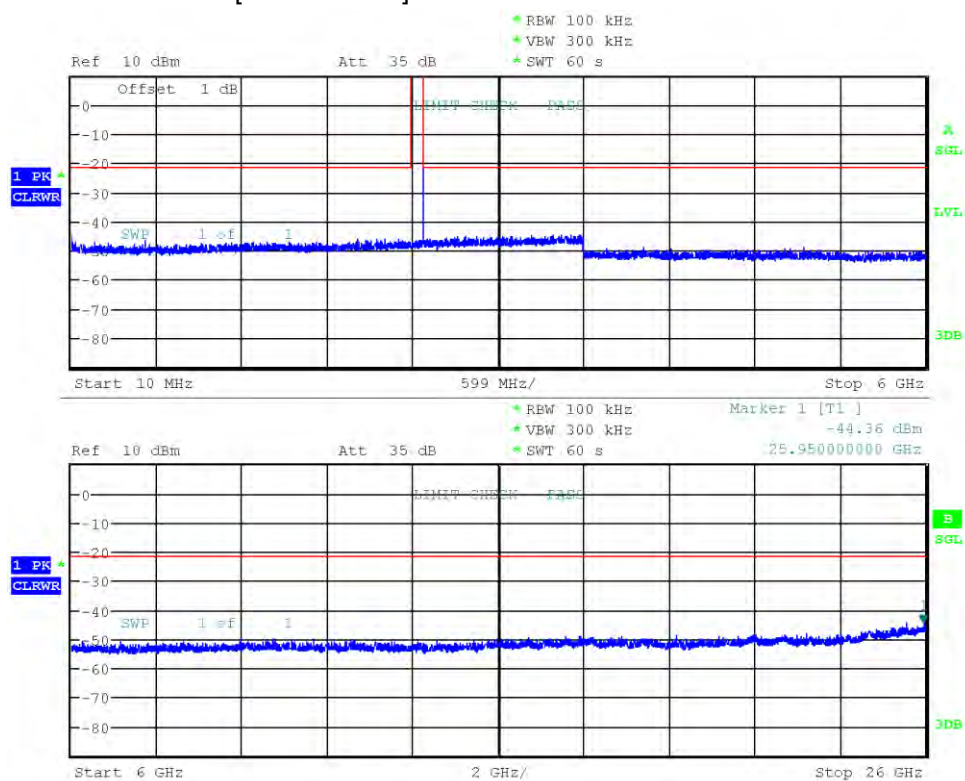
Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: 3-DH5, Channel: 39, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-14
 Max. in-band Frequency [MHz]: 2441.0
 Max. in-band Level [dBm/100 kHz]: -1.6
 Out-of-band Limit [dBm/100 kHz]: -21.6



Date: 14.JUL.2023 15:06:59

Conducted Spurious Emissions

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44649
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: 3-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Burkhard Pudell
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-07-14
 Max. in-band Frequency [MHz]: 2480.0
 Max. in-band Level [dBm/100 kHz]: -1.1
 Out-of-band Limit [dBm/100 kHz]: -21.1



Date: 14.JUL.2023 15:22:21

3.9 Test Conditions and Results - Transmitter radiated emissions

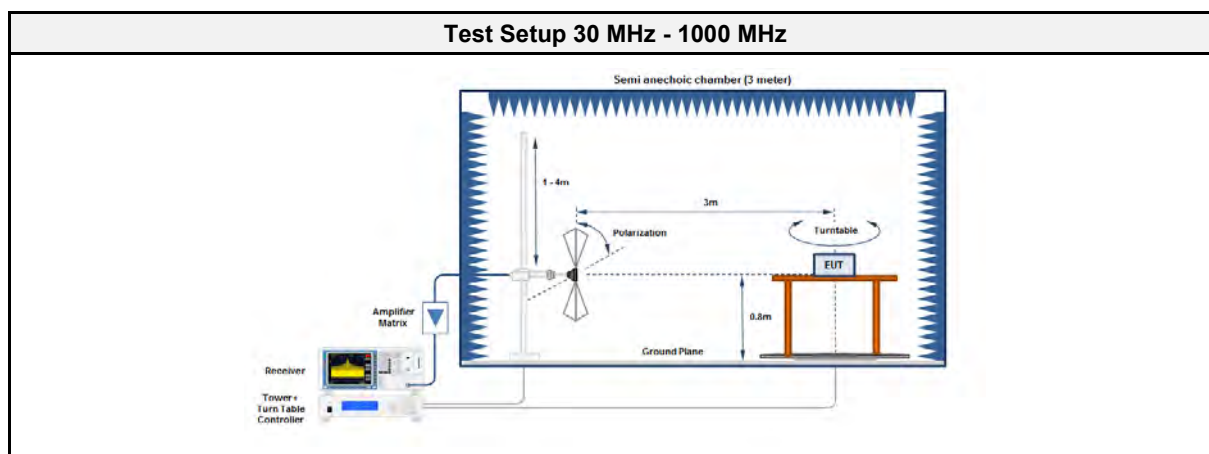
3.9.1 Information

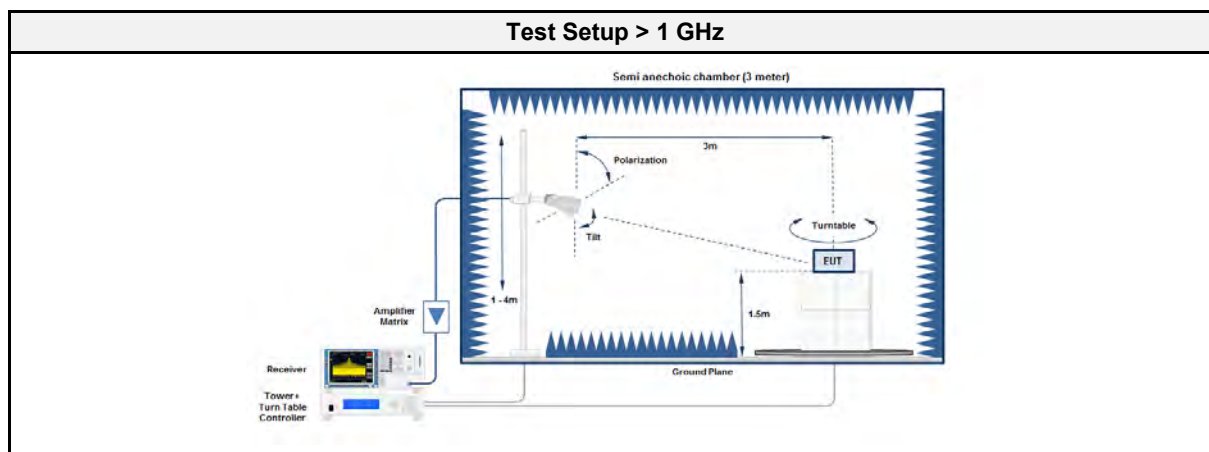
Test Information	
Reference	FCC § 15.247(d); FCC § 15.209; ISSED RSS-Gen, Issue 5 A2 (section 6.13)
Measurement Uncertainty	± 5.95 dB
Measurement Method	ANSI C63.10 6.4, 6.5, 6.6
Operator	Burkhard Pudell
Date	2023-08-10

3.9.2 Limits

Limits			
Frequency range [MHz]	Detector	Field strength [µV/m]	Measurement distance [m]
0.009 - 0.09	Average	2400/F[kHz]	300
0.09 - 0.110	Quasi-Peak	2400/F[kHz]	300
0.110 - 0.490	Average	2400/F[kHz]	300
0.490 - 1.705	Quasi-Peak	24000/F[kHz]	30
1.705 - 30.0	Quasi-Peak	30	30
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

3.9.3 Setup





3.9.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2020.1.8

Test Equipment 30 MHz - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2022-11	2025-11
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2023-02	2024-02
Antenna	R&S	VULB9168	EF01824	2022-10	2023-10

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC2	EF01616	2022-10	2023-10
Spectrum Analyzer	Frankonia	FSW 43	EF00896	2023-07	2024-07
Antenna	Schwarzbeck	BBHA 9120B	EF01678	2021-03	2024-03
Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2024-03
Antenna	Amplifier Research	AT4560	EF00302	2021-06	2023-09

3.9.5 Procedure

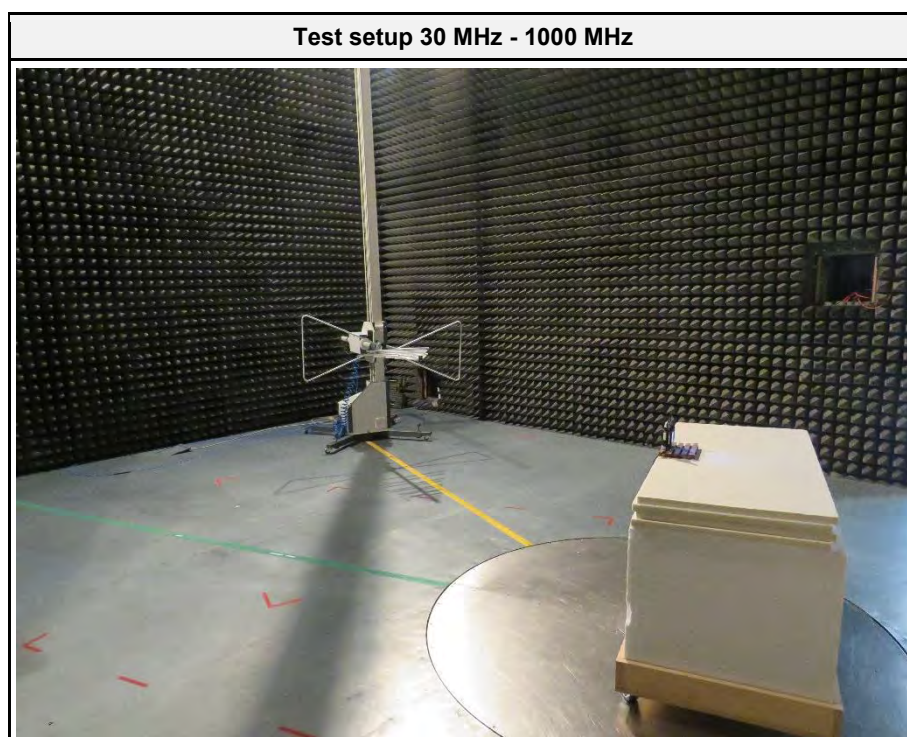
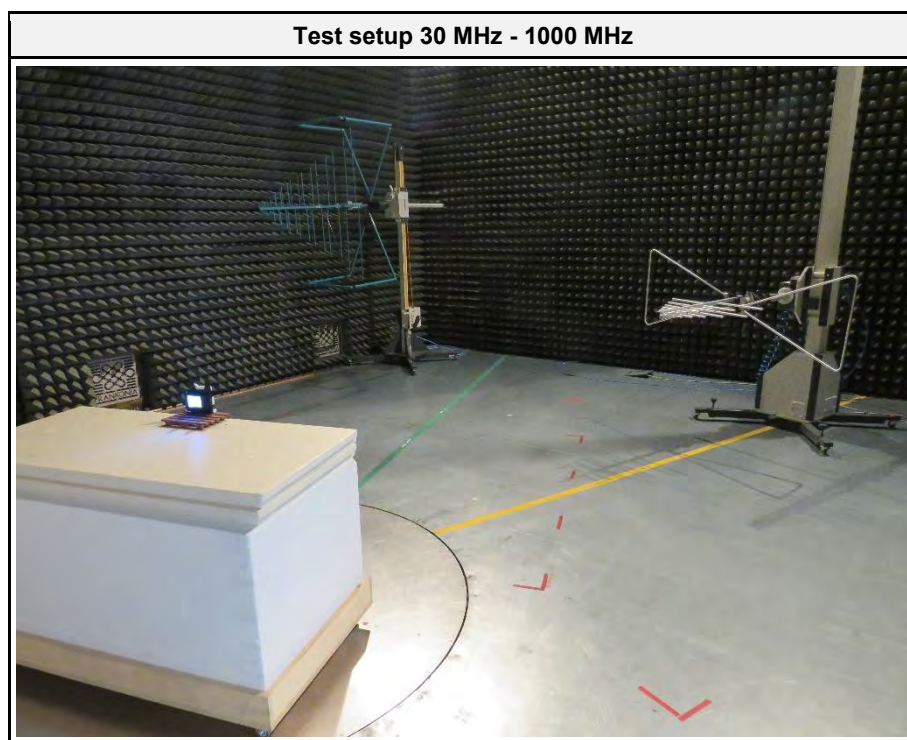
Test Procedure 30 MHz - 1000 MHz
1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground 2. EUT set to test mode 3. The receiver is set to peak detection with max hold 4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m 5. All significant emissions are measured again using the corresponding final detector

Test Procedure > 1 GHz
1. EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground 2. EUT set to test mode 3. The receiver is set to peak detection with max hold 4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m 5. All significant emissions are measured again using the corresponding final detector

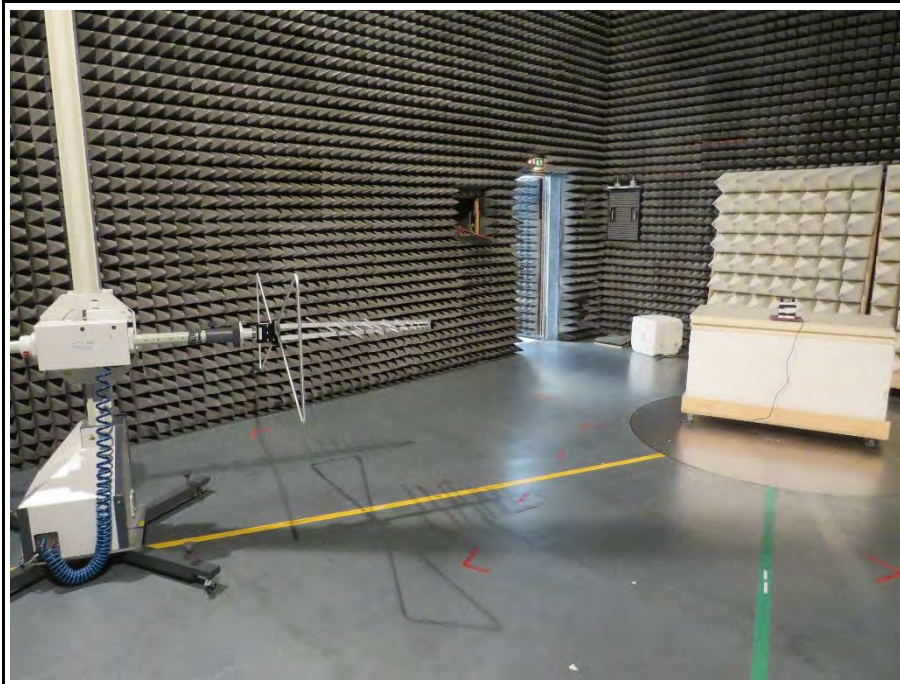
3.9.6 Results

Test Results - DH5						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
2402	149.989	32.10	qpk	ver	43.50	-11.43
2402	257.9985	30.50	qpk	hor	46.00	-15.55
2402	401.995	40.00	qpk	hor	46.00	-06.04
2402	4803.7	43.73	avg	hor	54.00	-10.27
2402	4803.7	40.05	avg	ver	54.00	-13.95
2402	4803.9	38.93	avg	hor	54.00	-15.07
2402	4804.1	42.81	avg	ver	54.00	-11.19
2441	329.9967	32.50	qpk	ver	46.00	-13.50
2441	4881.7	45.85	avg	ver	54.00	-08.15
2441	4881.7	44.37	avg	ver	54.00	-09.63
2441	4881.9	44.29	avg	hor	54.00	-09.71
2441	4882.3	49.22	avg	hor	54.00	-04.78
2480	282.006	28.30	qpk	ver	46.00	-17.67
2480	4960	54.23	pk	hor	74.00	-19.77
2480	4960	48.55	avg	ver	54.00	-05.45
2480	4960	52.45	avg	hor	54.00	-01.55
2480	4960	46.46	avg	ver	54.00	-07.54
2480	4960	45.51	avg	ver	54.00	-08.49

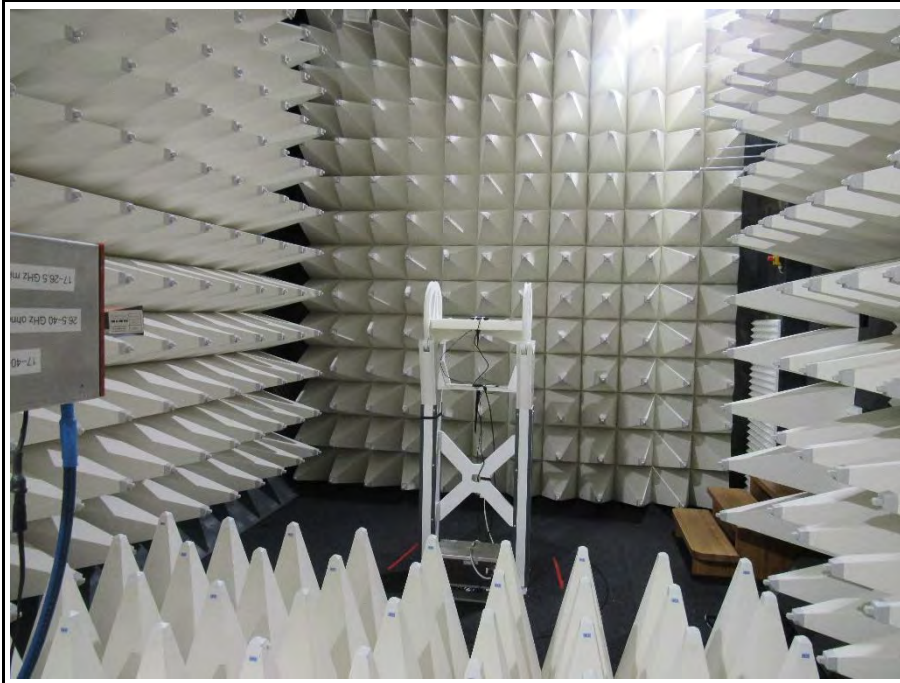
3.9.7 Setup Photos



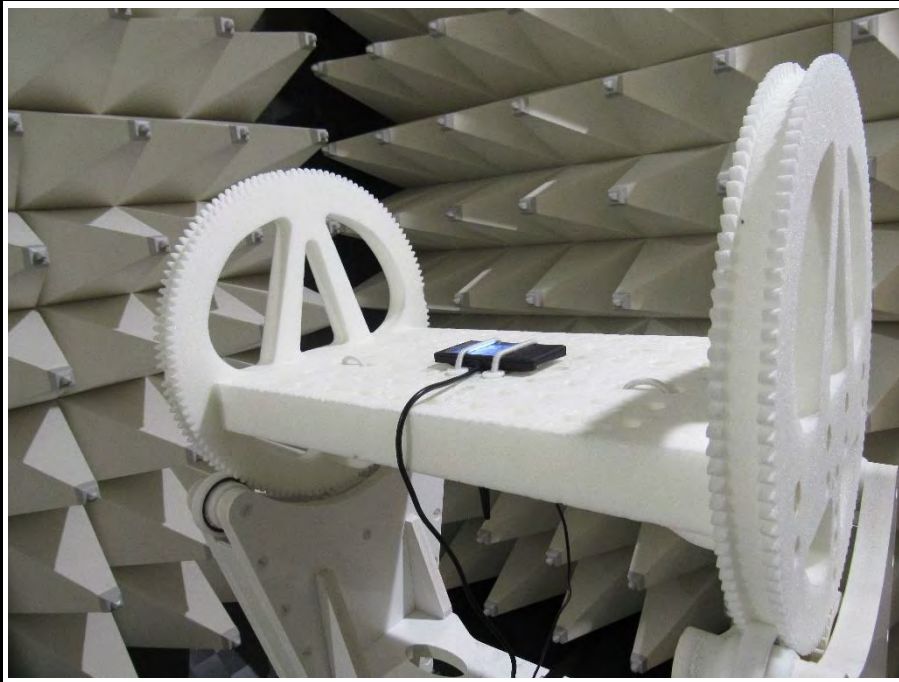
Test setup 30 MHz - 1000 MHz



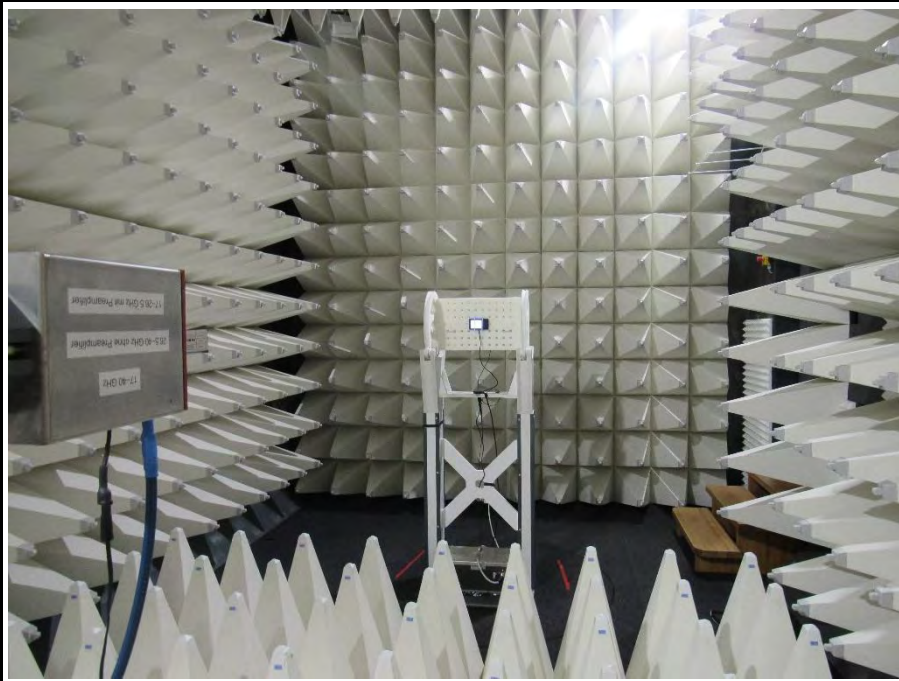
Test setup > 1 GHz



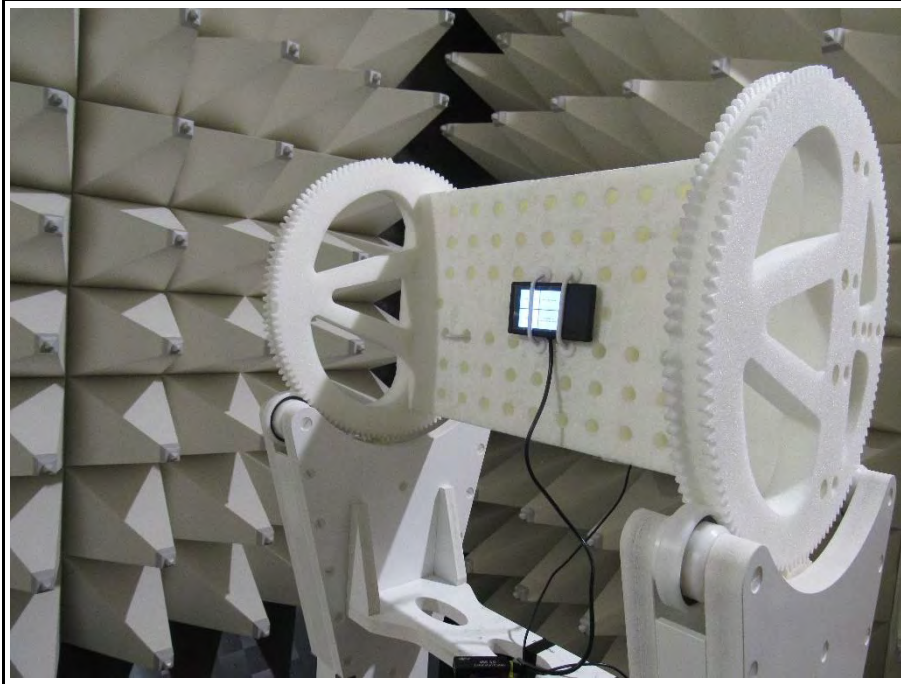
Test setup > 1 GHz



Test setup > 1 GHz



Test setup > 1 GHz



3.10 Test Conditions and Results - Receiver radiated emissions

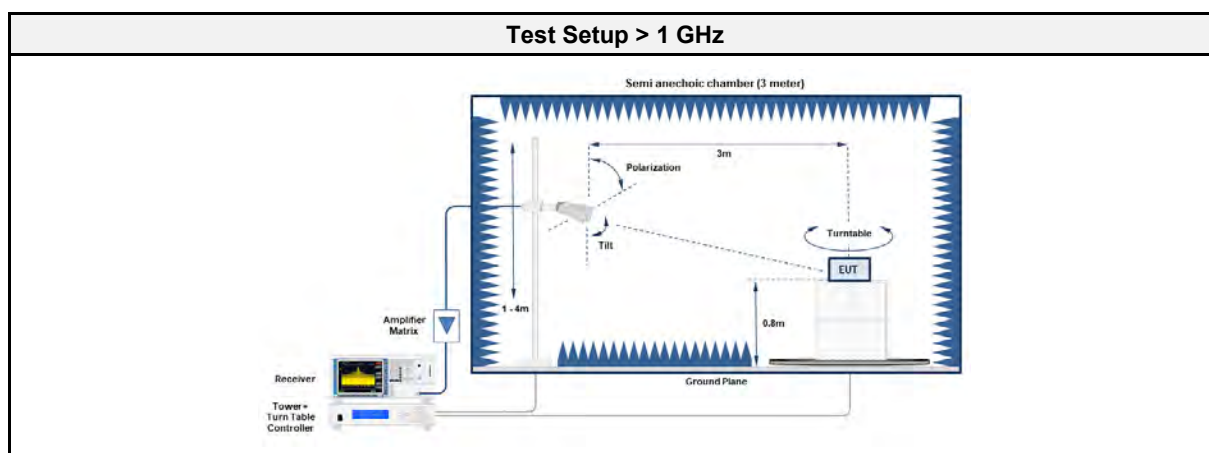
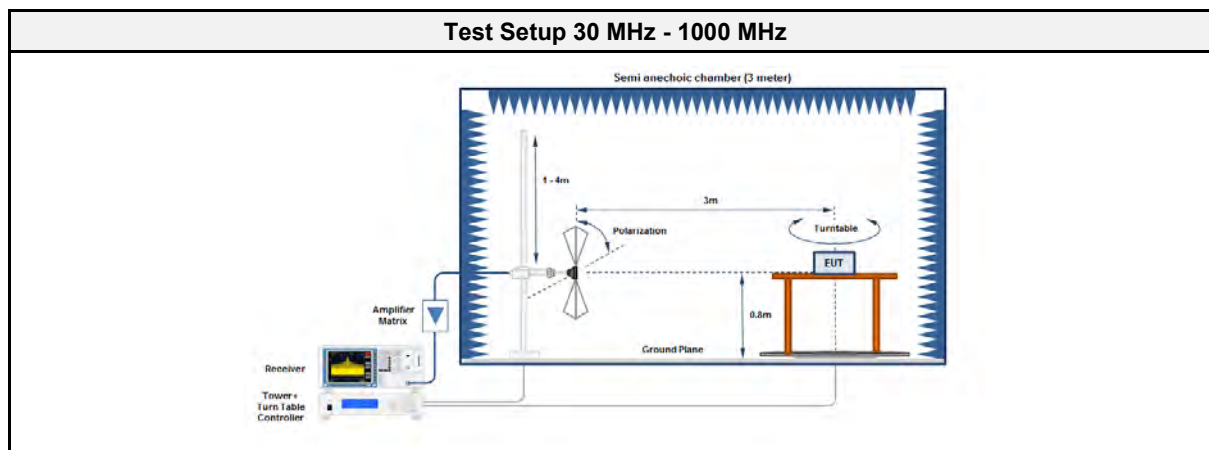
3.10.1 Information

Test Information	
Reference	ISED RSS-247, Issue 3 (section 3.1)
Measurement Uncertainty	± 5.95 dB
Measurement Method	ANSI C63.4-2014 8.1-8.3
Operator	Florian Voigt
Date	2023-07-14

3.10.2 Limits

Limits			
Frequency range [MHz]	Detector	Field strength [$\mu\text{V/m}$]	Measurement distance [m]
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

3.10.3 Setup



3.10.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2020.1.8

Test Equipment 30 MHz - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2022-11	2025-11
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2023-02	2024-02
Antenna	R&S	VULB9168	EF01824	2022-10	2023-10

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF01011	2022-11	2023-11
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2023-02	2024-02
Horn Antenna	Schwarzbeck	BBHA 9120B	EF01678	2021-03	2024-03
Horn Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2024-03

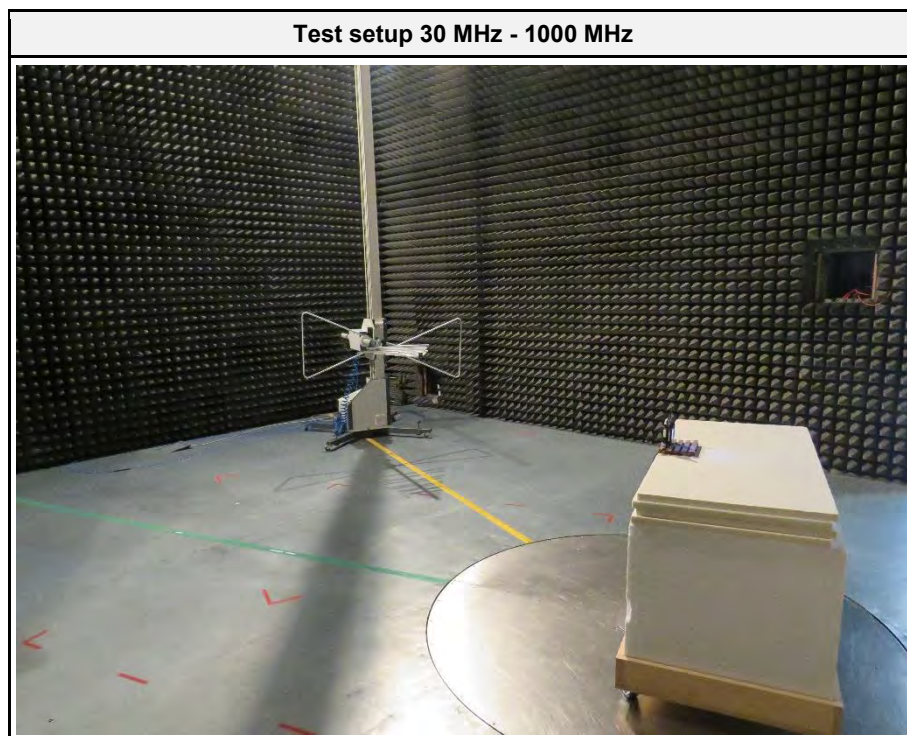
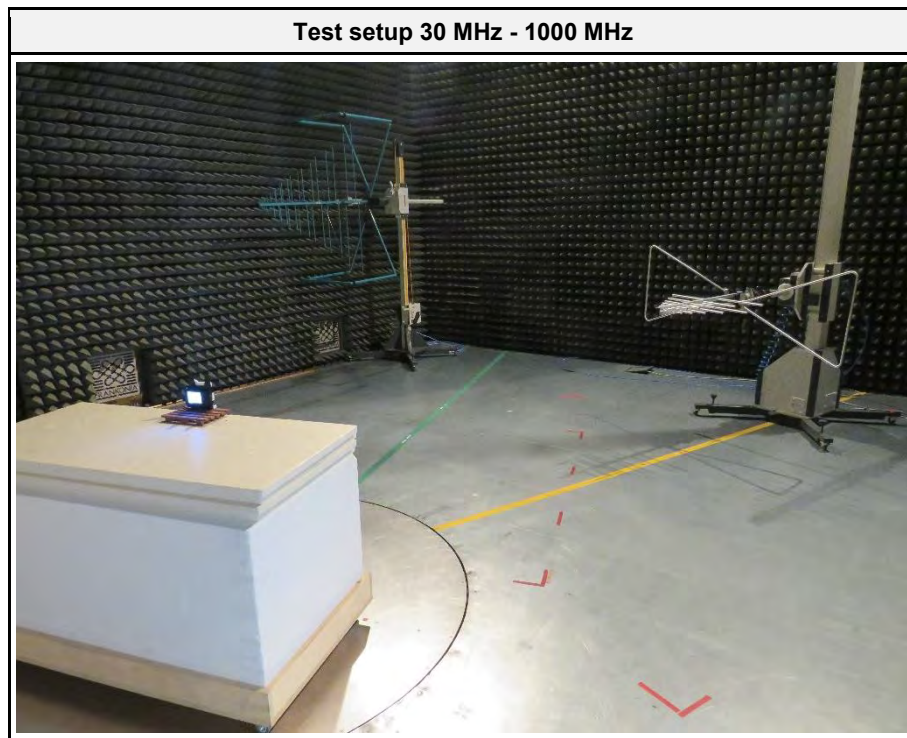
3.10.5 Procedure

Test Procedure
1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground 2. EUT is set to test mode 3. The receiver is set to peak detection with max hold 4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m 5. All significant emissions are measured again using the corresponding final detector

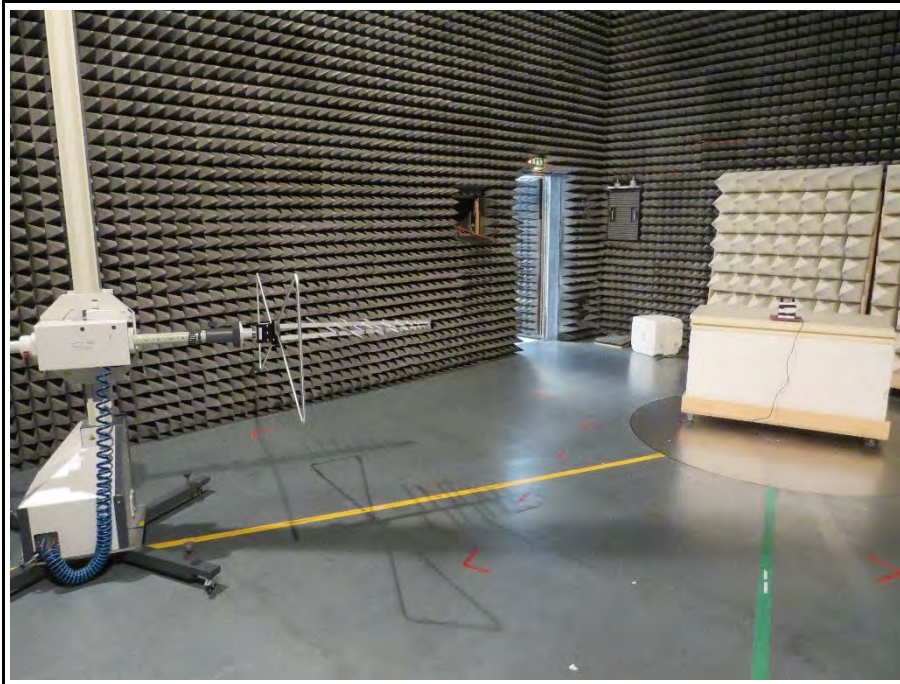
3.10.6 Results

Test Results						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
2002 - 2480	198.004	30.20	qpk	hor	43.50	-13.27
2002 - 2480	342.0005	33.90	qpk	hor	46.00	-12.10
2002 - 2480	401.992	38.60	qpk	hor	46.00	-07.42
2002 - 2480	401.9977	36.30	qpk	hor	46.00	-09.66
2002 - 2480	402	33.20	qpk	ver	46.00	-12.78

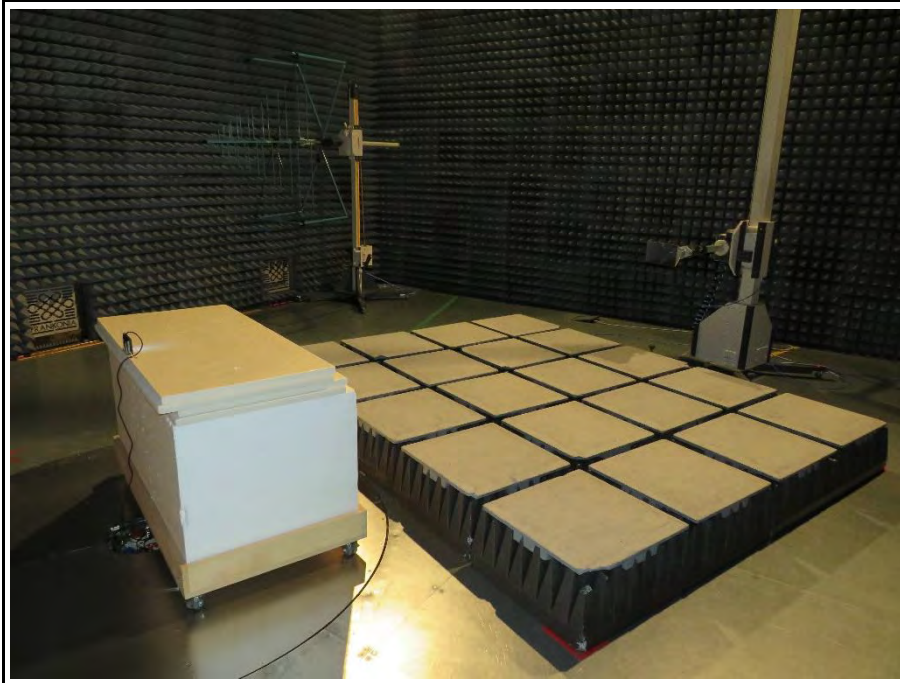
3.10.7 Setup Photos



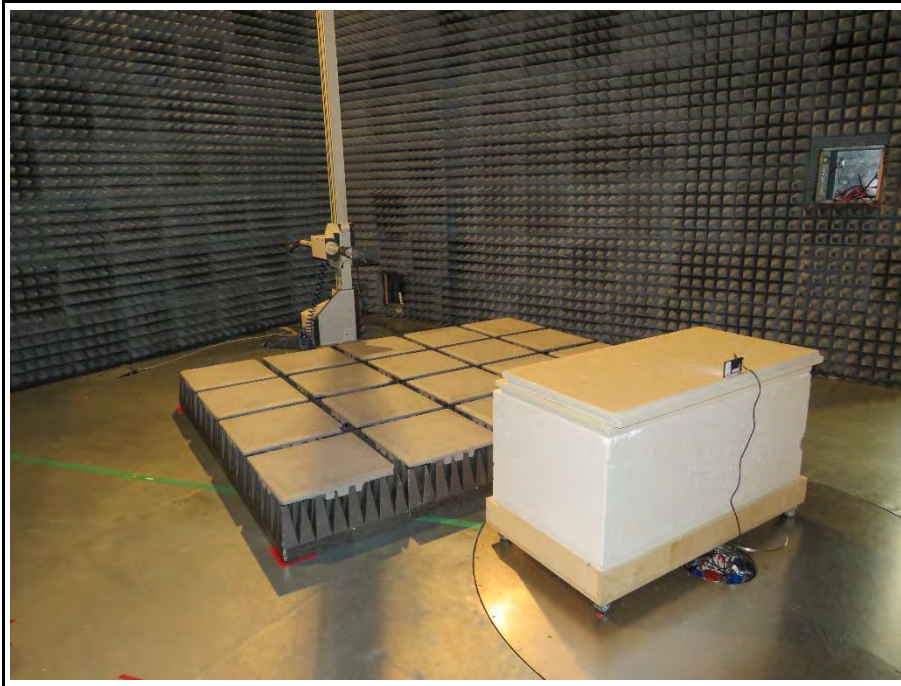
Test setup 30 MHz - 1000 MHz



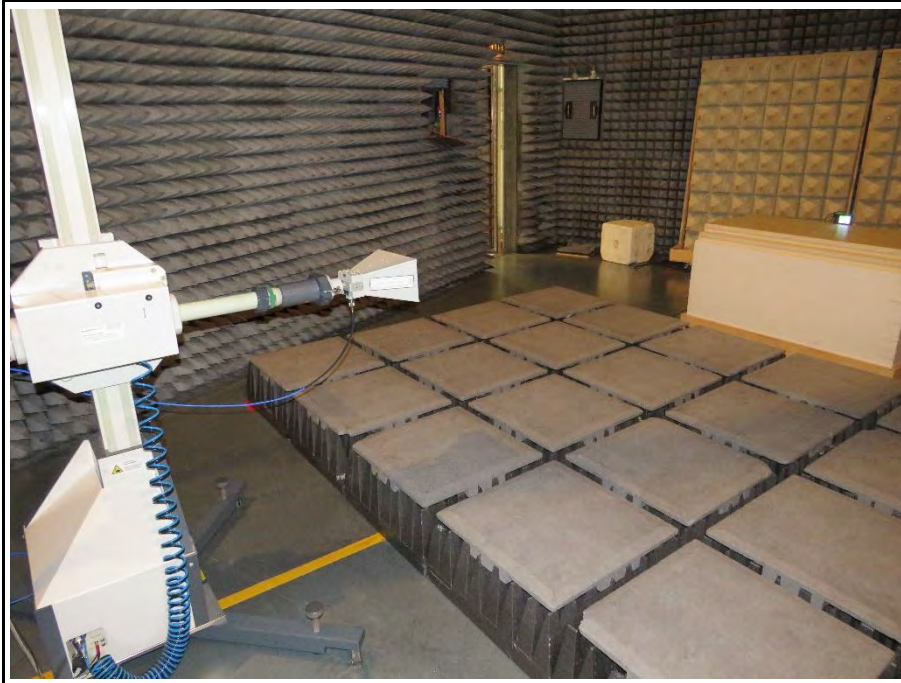
Test setup > 1 GHz



Test setup > 1 GHz



Test setup > 1 GHz



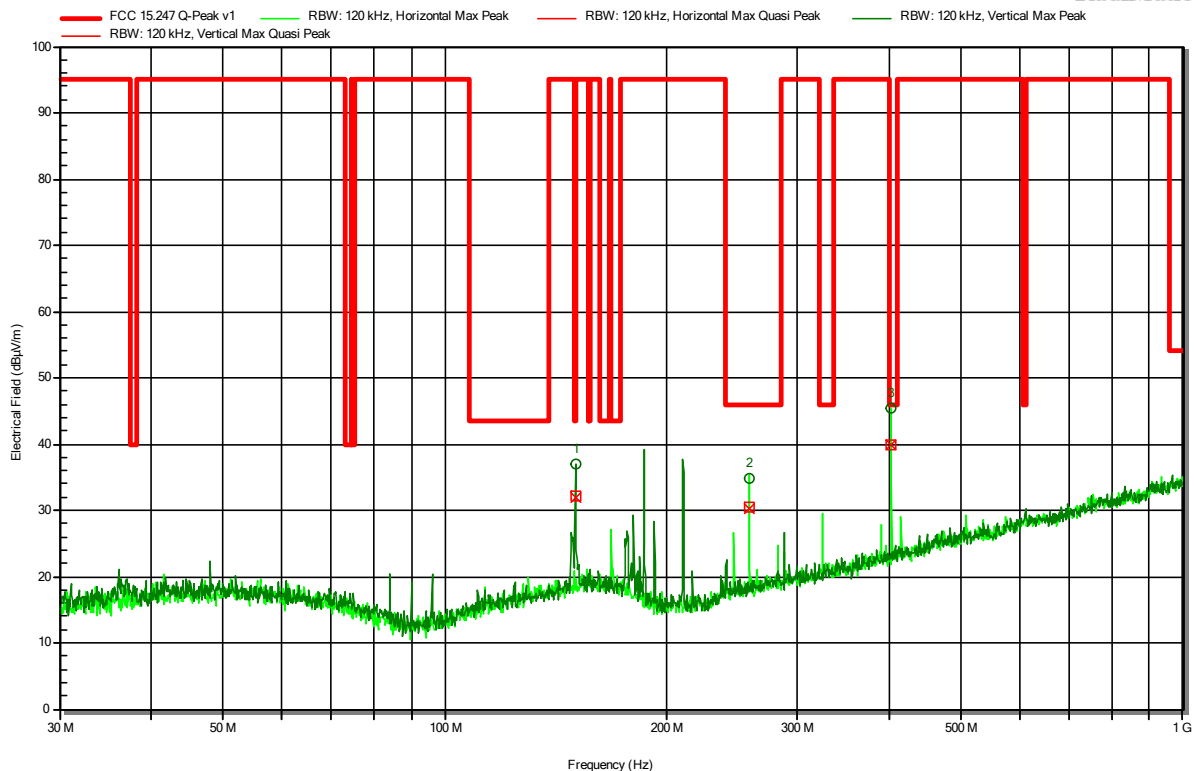
ANNEX A Transmitter spurious emissions

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Voigt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; BT-BR_CH 0 (2402 MHz)_DH5_PRBS_DUT mode
 Test Date: 2023-07-14
 Note: EUT vertical

Index 26

RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
149.989 MHz	36.9 dBμV/m	43.5 dBμV/m	-6.62 dB	Pass	Vertical
257.9985 MHz	34.9 dBμV/m	46 dBμV/m	-11.07 dB	Pass	Horizontal
401.995 MHz	45.5 dBμV/m	46 dBμV/m	-0.54 dB	Pass	Horizontal
Frequency	Quasi-Peak	Quasi-Peak Limit	Q-Peak Difference	Quasi-Peak Status	Polarization
149.989 MHz	32.1 dBμV/m	43.5 dBμV/m	-11.43 dB	Pass	Vertical
257.9985 MHz	30.5 dBμV/m	46 dBμV/m	-15.55 dB	Pass	Horizontal
401.995 MHz	40 dBμV/m	46 dBμV/m	-6.04 dB	Pass	Horizontal

Test Report No.: G0M-2306-2102-TFC247BT-V02

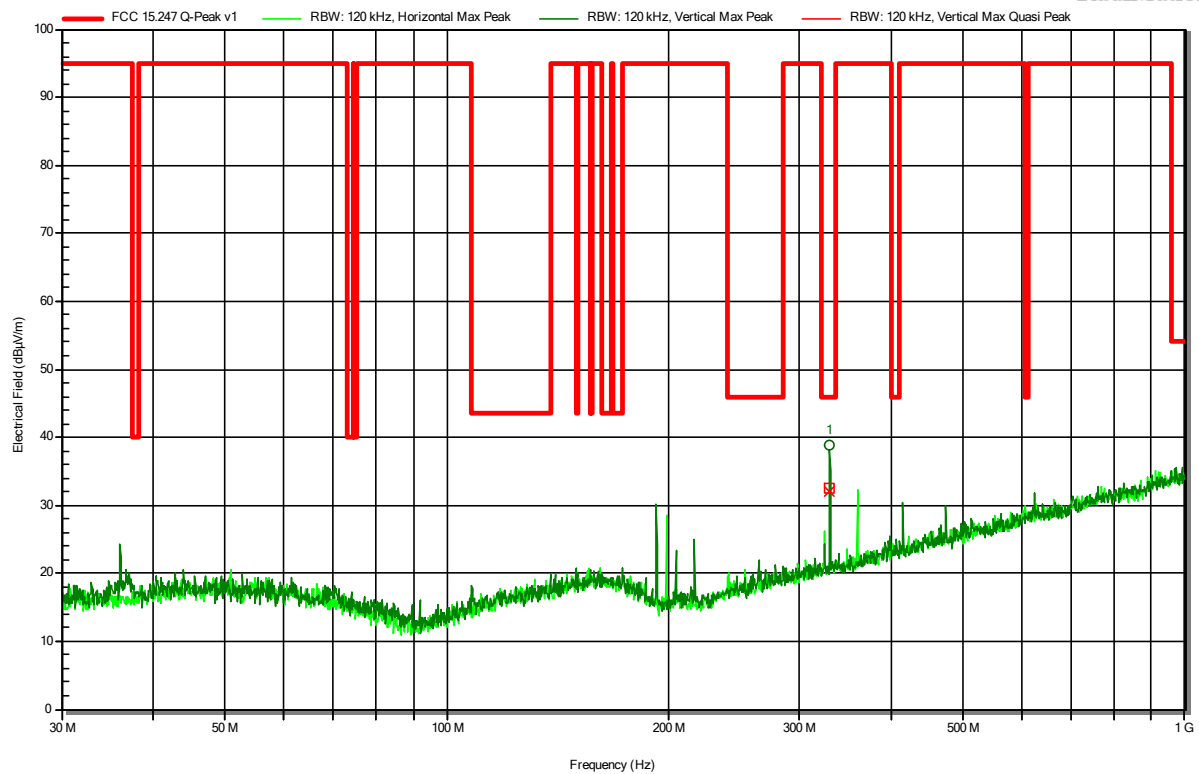
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Voigt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; BT-BR_CH 39 (2441 MHz)_DH5_PRBS_DUT mode
 Test Date: 2023-07-14
 Note: EUT vertical

Index 27

RadiMation



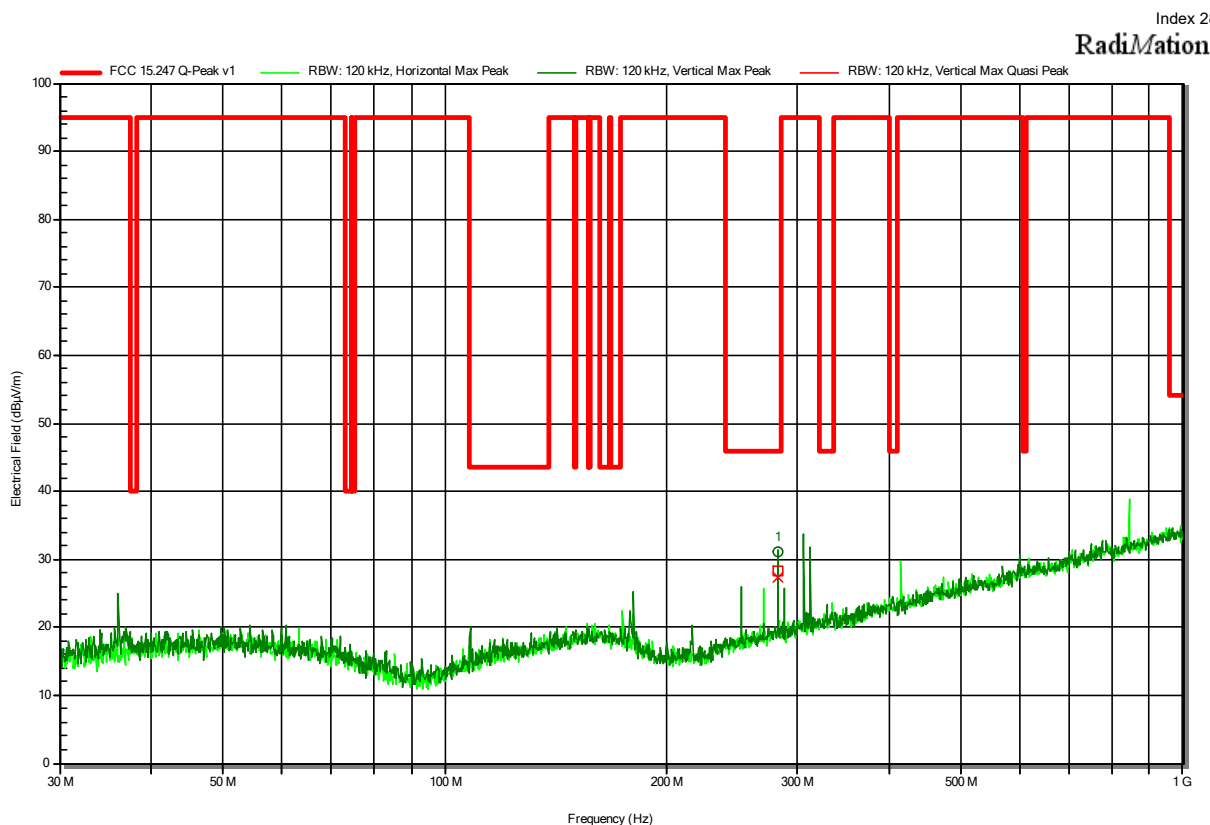
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
329.9967 MHz	38.7 dBμV/m	46 dBμV/m	-7.25 dB	Pass	Vertical
Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Polarization
329.9967 MHz	32.5 dBμV/m	46 dBμV/m	-13.5 dB	Pass	Vertical

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Voigt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; BT-BR_CH 78 (2480 MHz)_DH5_PRBS_DUT mode
 Test Date: 2023-07-14
 Note: EUT vertical



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
282.006 MHz	31.2 dBμV/m	46 dBμV/m	-14.79 dB	Pass	Vertical
Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Polarization
282.006 MHz	28.3 dBμV/m	46 dBμV/m	-17.67 dB	Pass	Vertical

Test Report No.: G0M-2306-2102-TFC247BT-V02

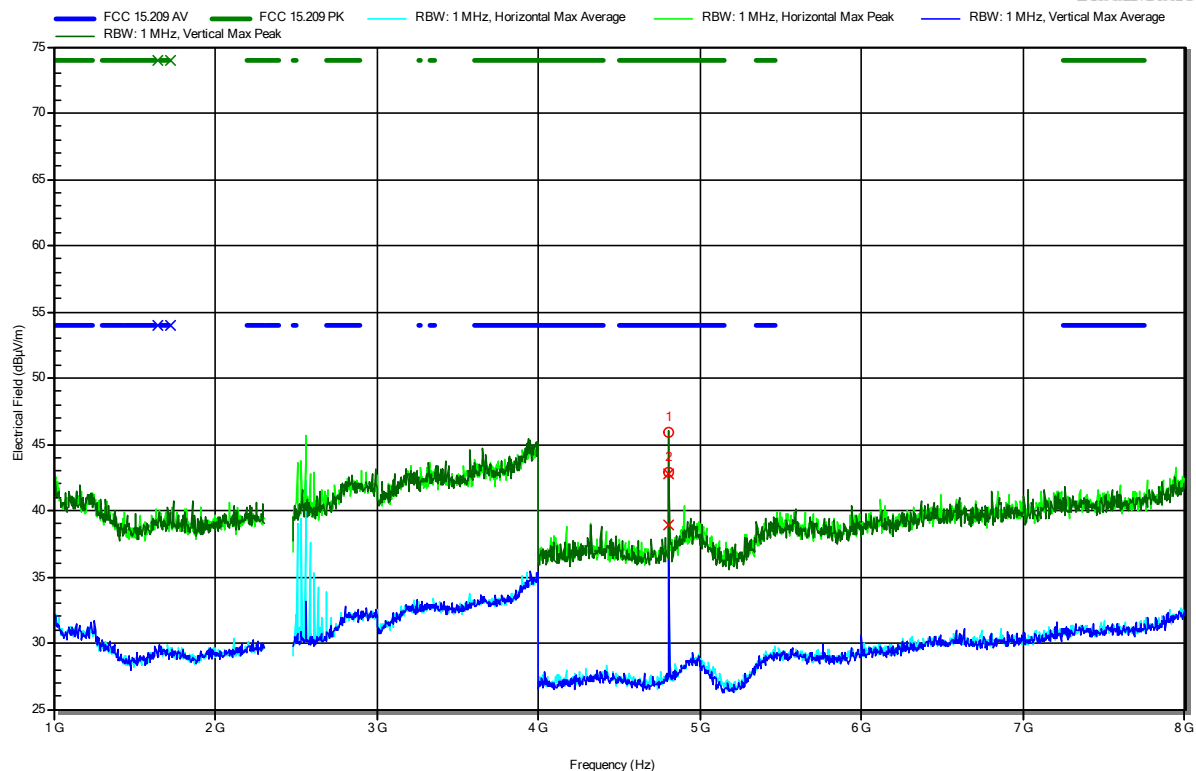
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BT-BR_CH 0 (2402 MHz)_DH5_PRBS_DUT mode
 Test Date: 2023-07-07
 Note: EUT vertical

Index 13

RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.8039 GHz	42.94 dBμV/m	74 dBμV/m	-31.06 dB	Pass	Horizontal
4.8041 GHz	45.94 dBμV/m	74 dBμV/m	-28.06 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.8039 GHz	38.93 dBμV/m	54 dBμV/m	-15.07 dB	Pass	Horizontal
4.8041 GHz	42.81 dBμV/m	54 dBμV/m	-11.19 dB	Pass	Vertical

Test Report No.: G0M-2306-2102-TFC247BT-V02

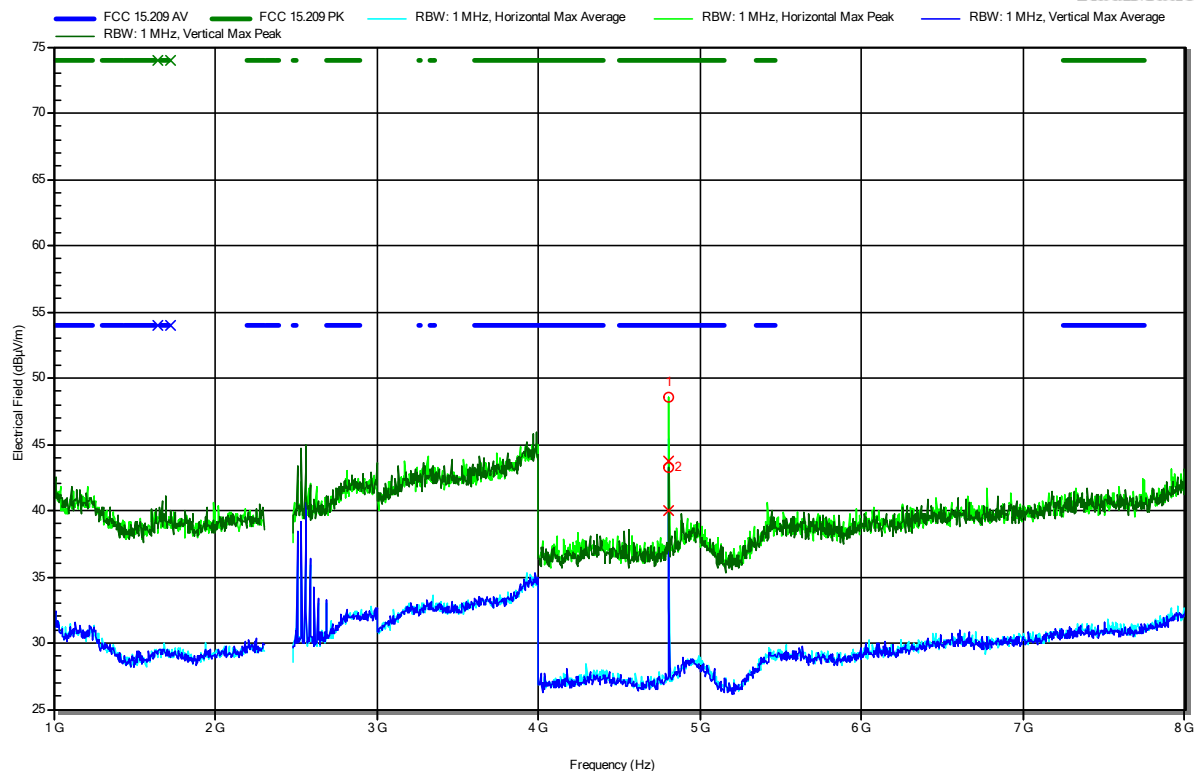
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BT-BR_CH 0 (2402 MHz)_DH5_PRBS_DUT mode
 Test Date: 2023-07-07
 Note: EUT horizontal

Index 14

RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.8037 GHz	48.61 dBμV/m	74 dBμV/m	-25.39 dB	Pass	Horizontal
4.8037 GHz	43.29 dBμV/m	74 dBμV/m	-30.71 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.8037 GHz	43.73 dBμV/m	54 dBμV/m	-10.27 dB	Pass	Horizontal
4.8037 GHz	40.05 dBμV/m	54 dBμV/m	-13.95 dB	Pass	Vertical

Test Report No.: G0M-2306-2102-TFC247BT-V02

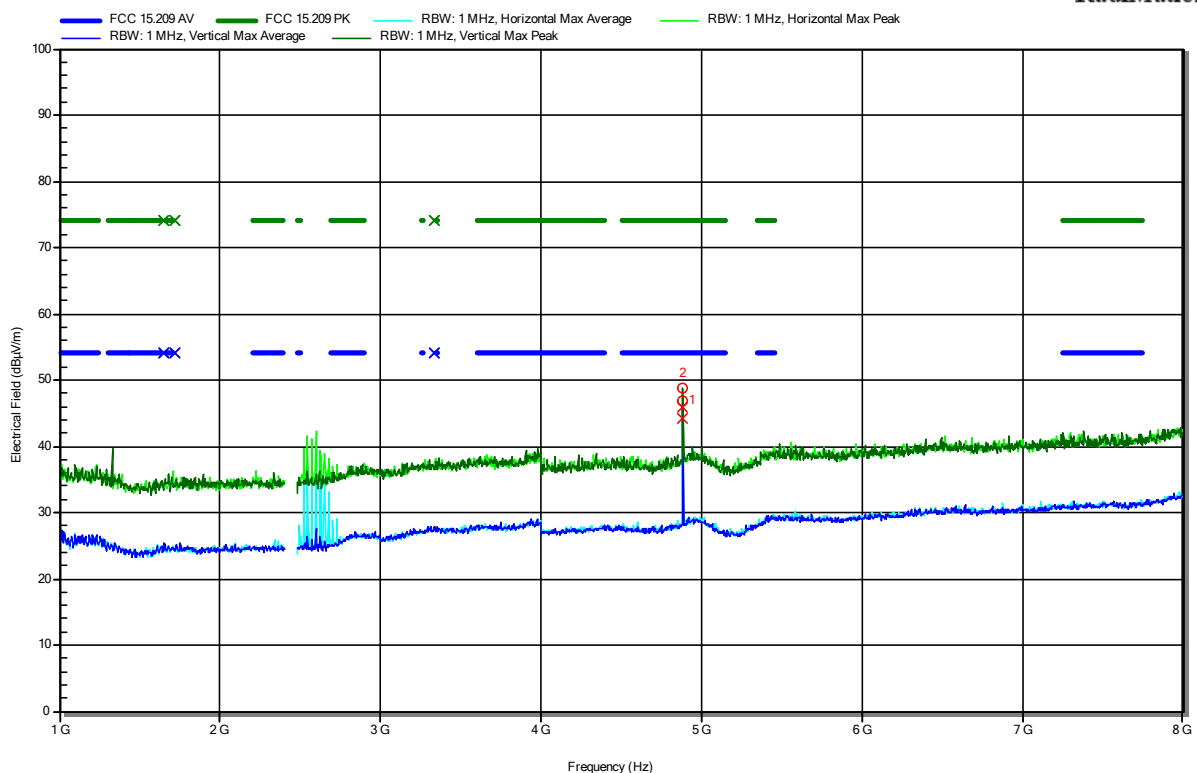
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BT-BR_CH 39 (2441 MHz)_DH5_PRBS_DUT mode
 Test Date: 2023-07-10
 Note: Eut horizontal

Index 16

RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.8817 GHz	48.7 dBμV/m	74 dBμV/m	-25.3 dB	Pass	Vertical
4.8819 GHz	46.92 dBμV/m	74 dBμV/m	-27.08 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.8817 GHz	45.85 dBμV/m	54 dBμV/m	-8.15 dB	Pass	Vertical
4.8819 GHz	44.29 dBμV/m	54 dBμV/m	-9.71 dB	Pass	Horizontal

Test Report No.: G0M-2306-2102-TFC247BT-V02

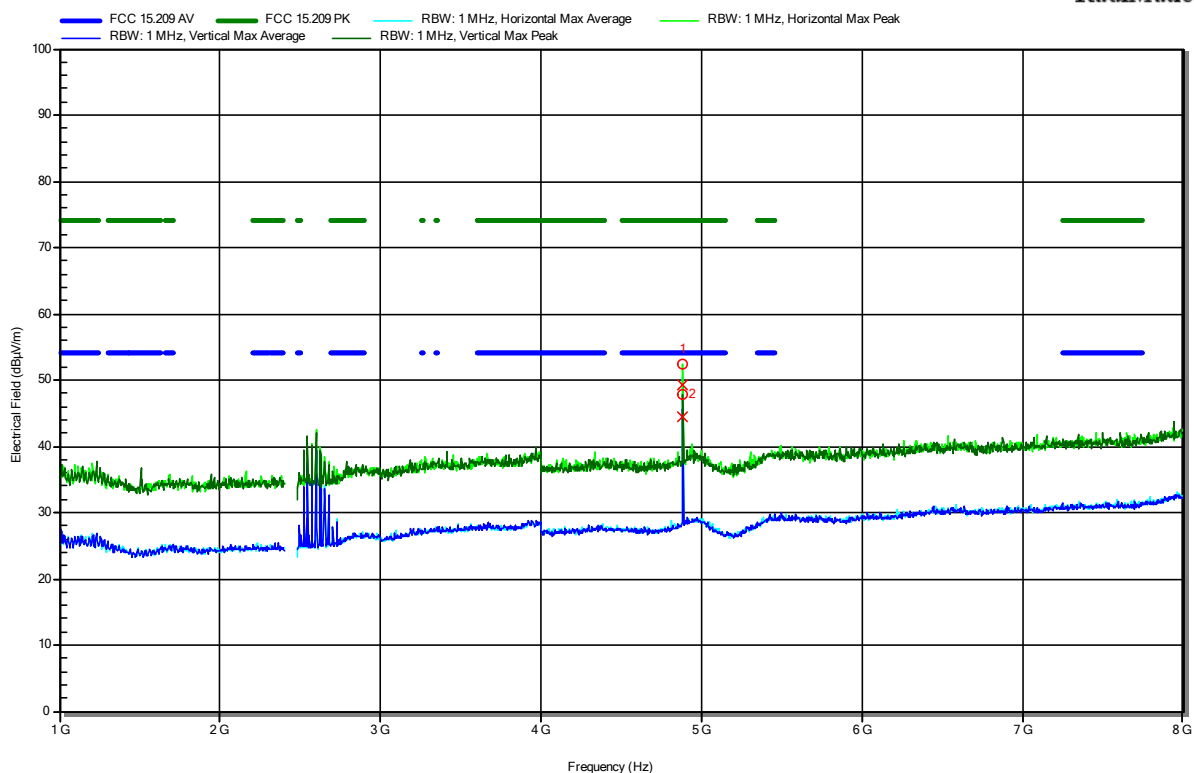
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BT-BR_CH 39 (2441 MHz)_DH5_PRBS_DUT mode
 Test Date: 2023-07-10
 Note: EUT vertical

Index 17

RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.8817 GHz	47.73 dBμV/m	74 dBμV/m	-26.27 dB	Pass	Vertical
4.8823 GHz	52.37 dBμV/m	74 dBμV/m	-21.63 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.8817 GHz	44.37 dBμV/m	54 dBμV/m	-9.63 dB	Pass	Vertical
4.8823 GHz	49.22 dBμV/m	54 dBμV/m	-4.78 dB	Pass	Horizontal

Test Report No.: G0M-2306-2102-TFC247BT-V02

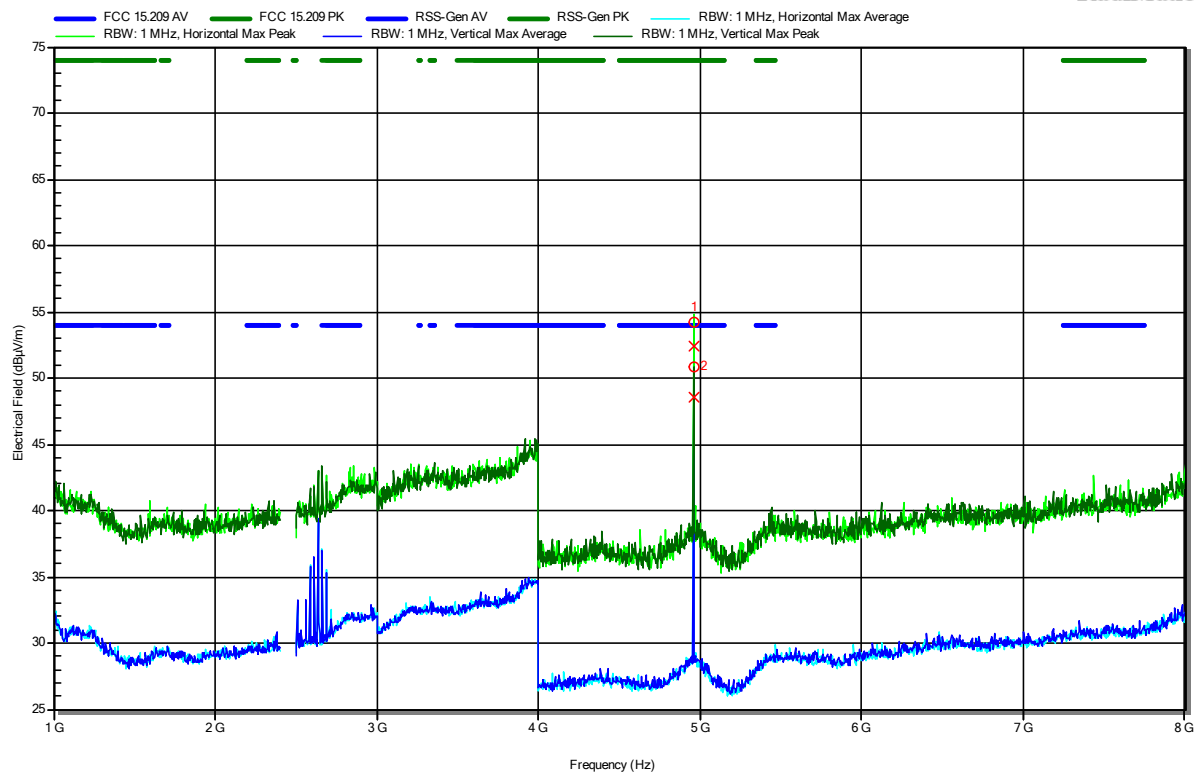
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BT-BR_CH 78 (2480 MHz)_DH5_PRBS_DUT mode
 Test Date: 2023-07-10
 Note: EUT vertical

Index 18

RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.96 GHz	50.86 dBμV/m	74 dBμV/m	-23.14 dB	Pass	Vertical
4.96 GHz	54.23 dBμV/m	74 dBμV/m	-19.77 dB	Pass	Horizontal
Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.96 GHz	48.55 dBμV/m	54 dBμV/m	-5.45 dB	Pass	Vertical
4.96 GHz	52.45 dBμV/m	54 dBμV/m	-1.55 dB	Pass	Horizontal

Test Report No.: G0M-2306-2102-TFC247BT-V02

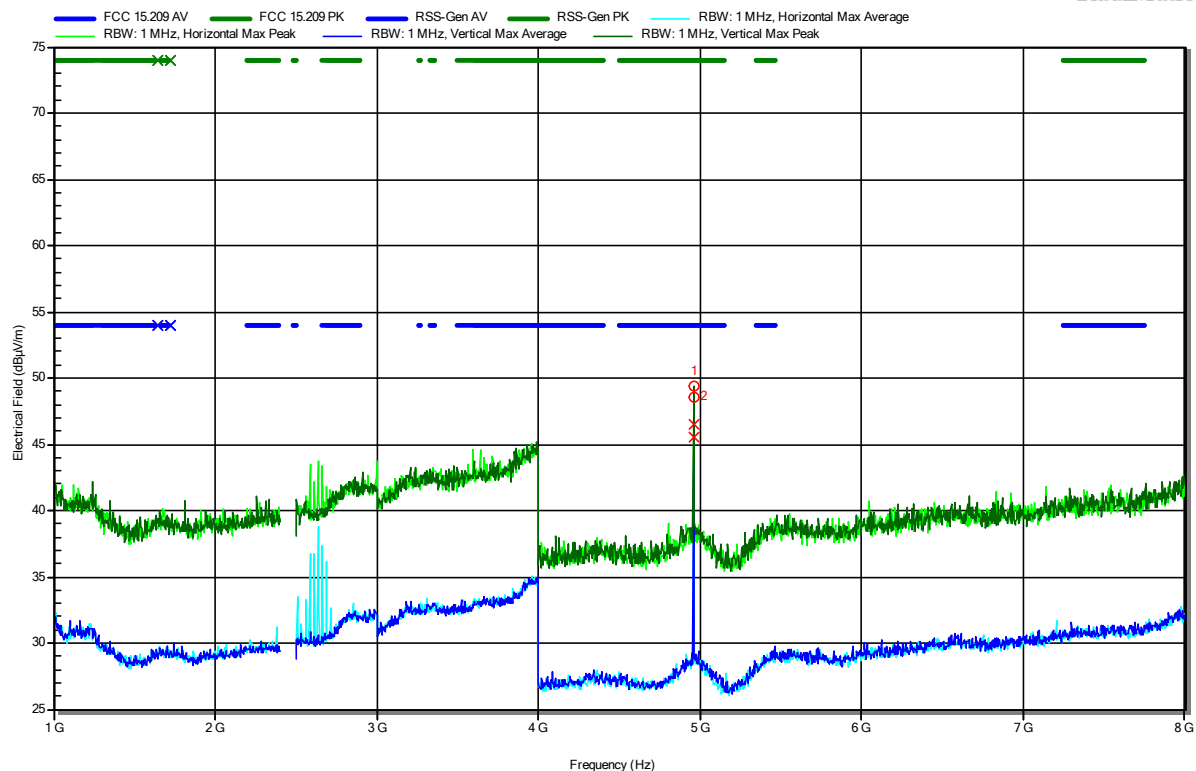
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BT-BR_CH 78 (2480 MHz)_DH5_PRBS_DUT mode
 Test Date: 2023-07-10
 Note: EUT horizontal

Index 19

RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.96 GHz	48.54 dBμV/m	74 dBμV/m	-25.46 dB	Pass	Vertical
4.96 GHz	49.42 dBμV/m	74 dBμV/m	-24.58 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.96 GHz	46.46 dBμV/m	54 dBμV/m	-7.54 dB	Pass	Vertical
4.96 GHz	45.51 dBμV/m	54 dBμV/m	-8.49 dB	Pass	Vertical

Test Report No.: G0M-2306-2102-TFC247BT-V02

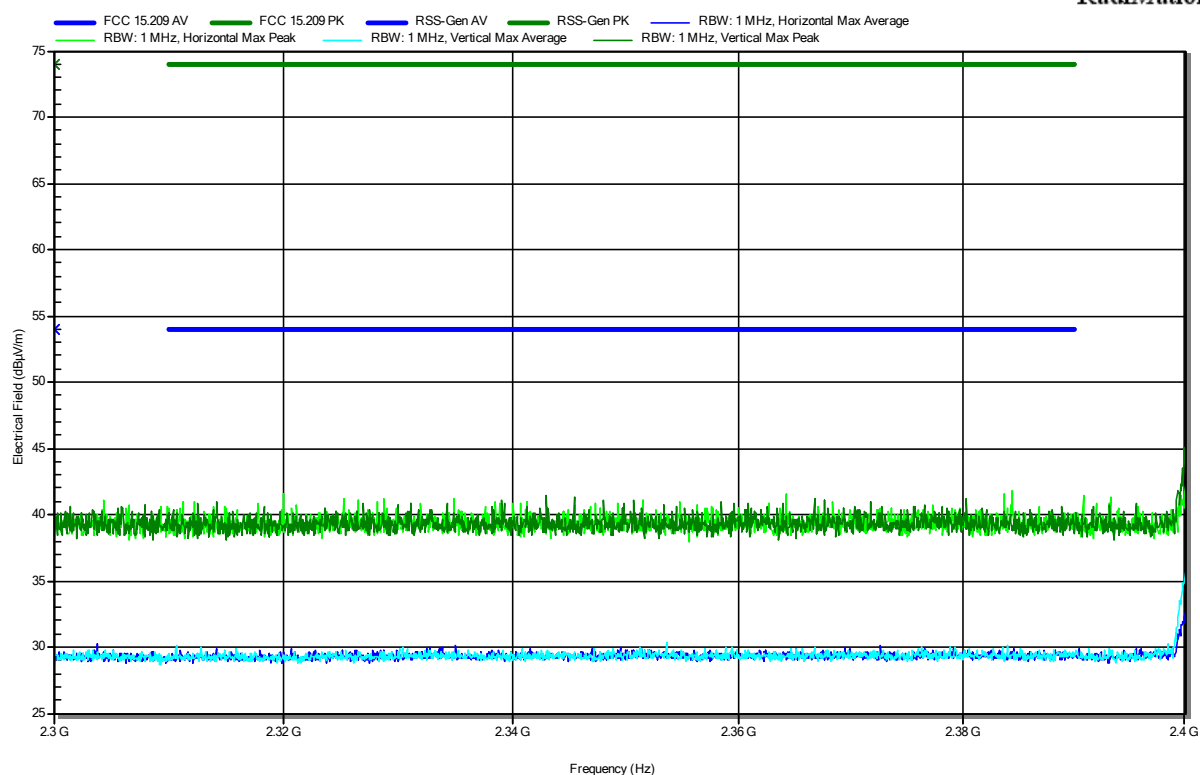
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Voigt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 27 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; BT-BR_CH 0 (2402 MHz)_DH5_PRBS_DUT mode
 Test Date: 2023-07-15
 Note: EUT vertical

Index 29

RadiMation

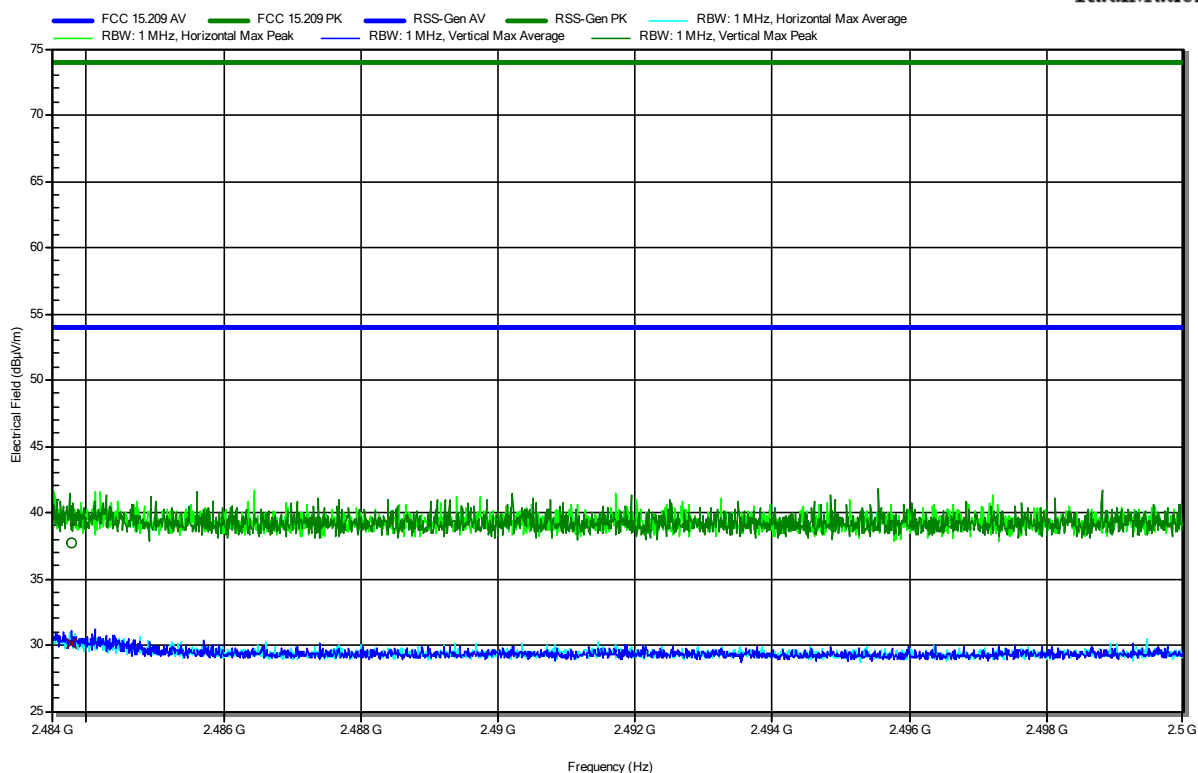


Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Voigt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; BT-BR_CH 78 (2480 MHz)_DH5_PRBS_DUT mode
 Test Date: 2023-07-15
 Note: EUT vertical

Index 30

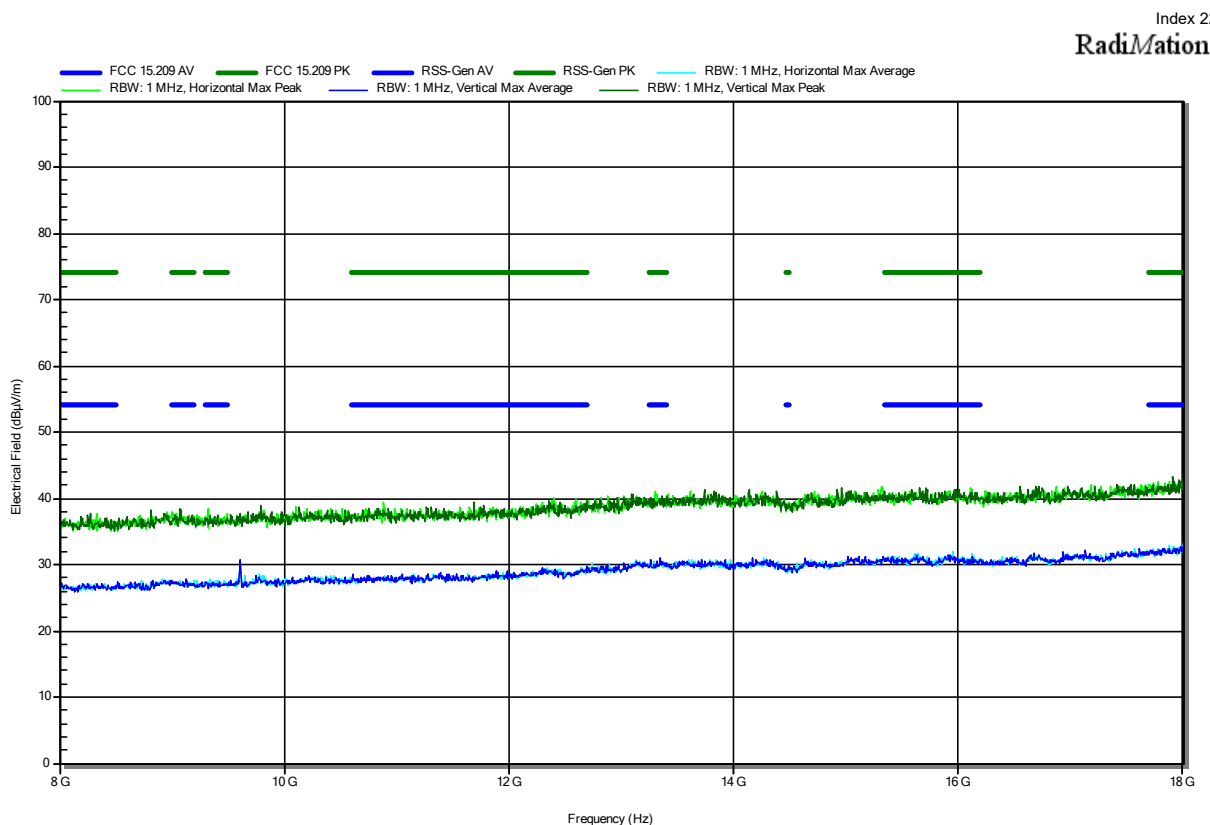
RadiMation



Frequency 2.4838 GHz	Peak 37.69 dBμV/m	Peak Limit 74 dBμV/m	Peak Difference -36.31 dB	Peak Status Pass	Polarization Vertical
Frequency 2.4838 GHz	Average 30.09 dBμV/m	Average Limit 54 dBμV/m	Average Difference -23.91 dB	Average Status Pass	Polarization Vertical

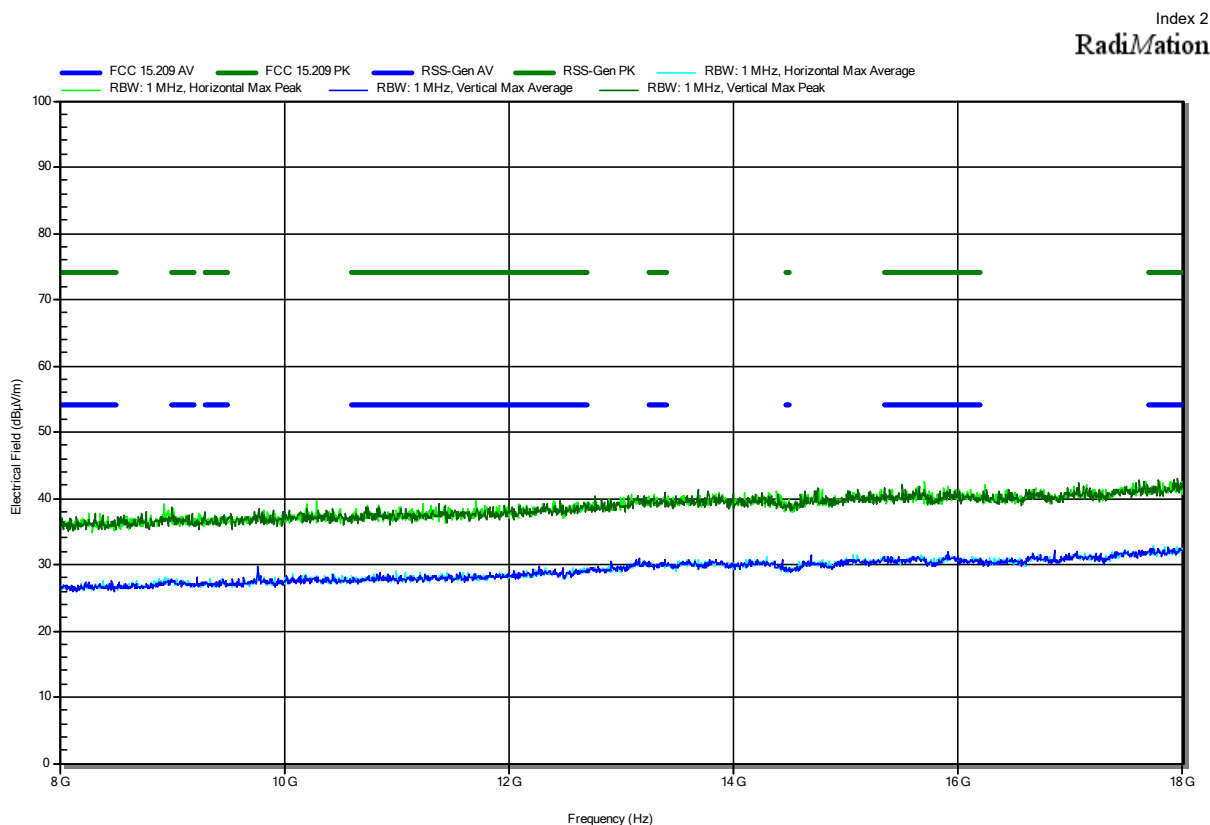
Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; BT-BR_CH 0 (2402 MHz)_DH5_PRBS_DUT mode
 Test Date: 2023-07-10
 Note: EUT horizontal



Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; BT-BR_CH 39 (2441 MHz)_DH5_PRBS_DUT mode
 Test Date: 2023-07-10
 Note: EUT horizontal

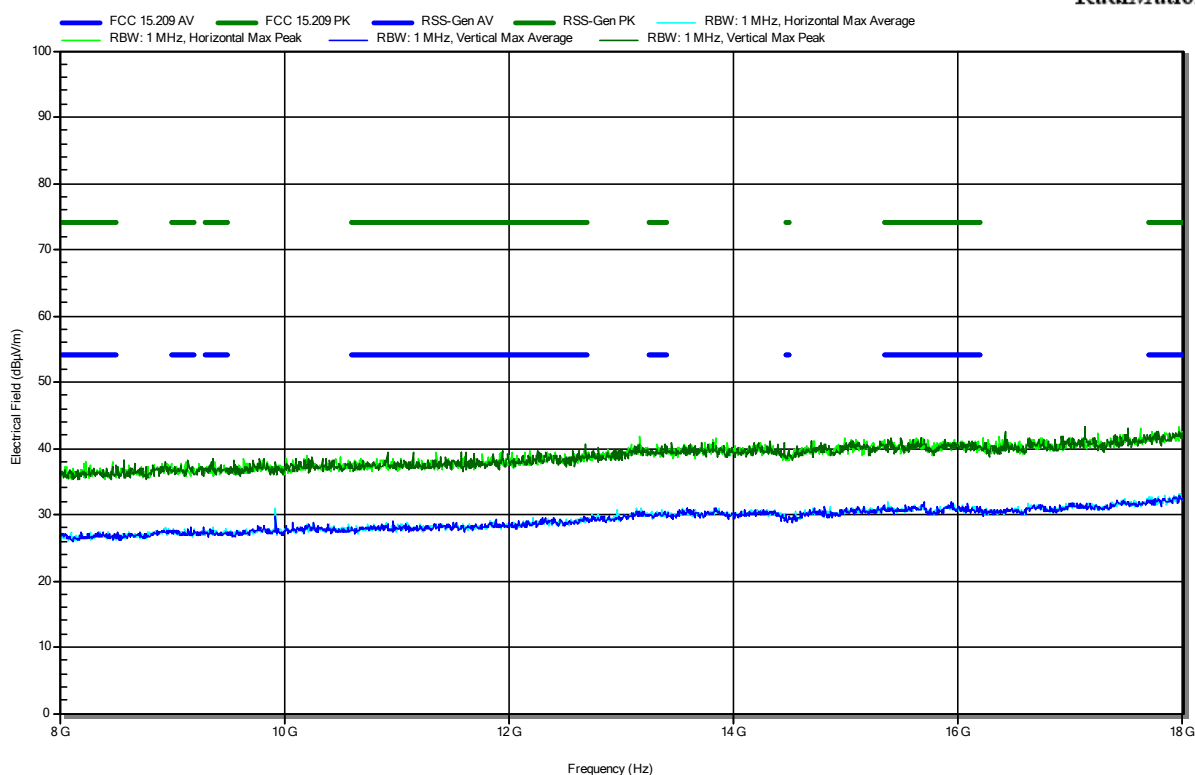


Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; BT-BR_CH 78 (2480 MHz)_DH5_PRBS_DUT mode
 Test Date: 2023-07-10
 Note: EUT horizontal

Index 20

RadiMation

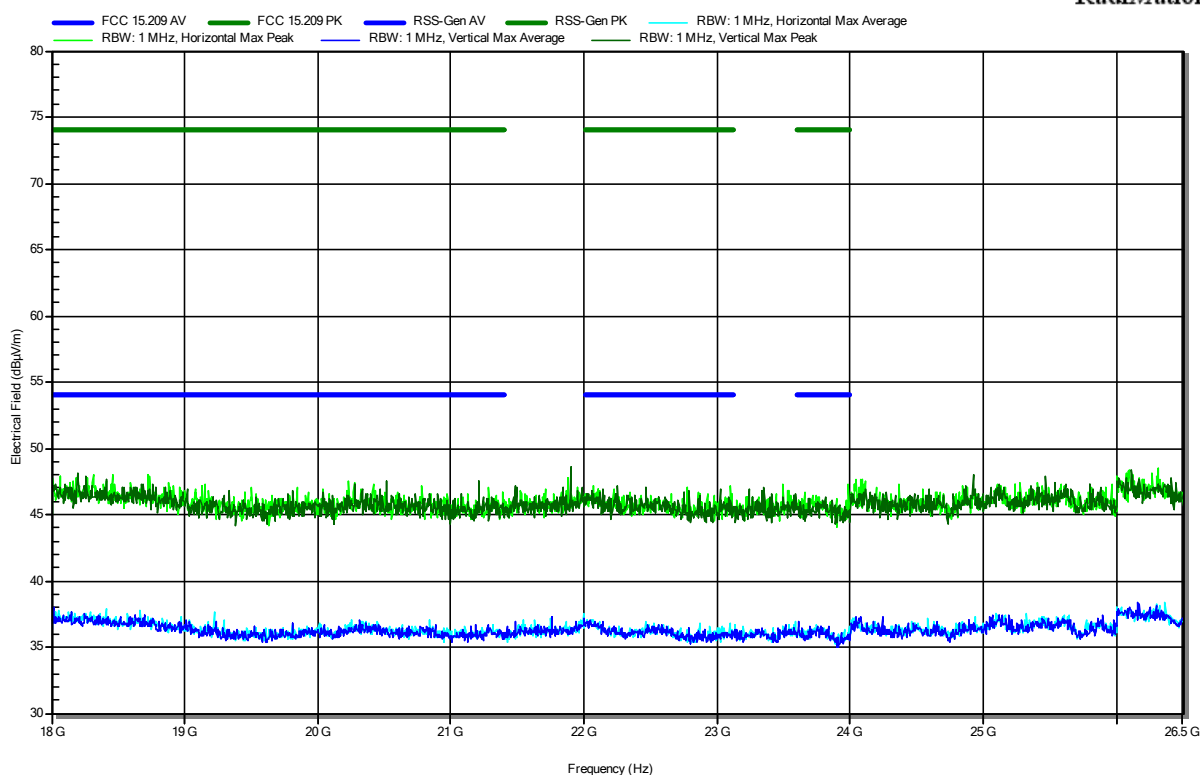


Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; BT-BR_CH 0 (2402 MHz)_DH5_PRBS_DUT mode
 Test Date: 2023-07-10
 Note: EUT horizontal

Index 23

RadiMation

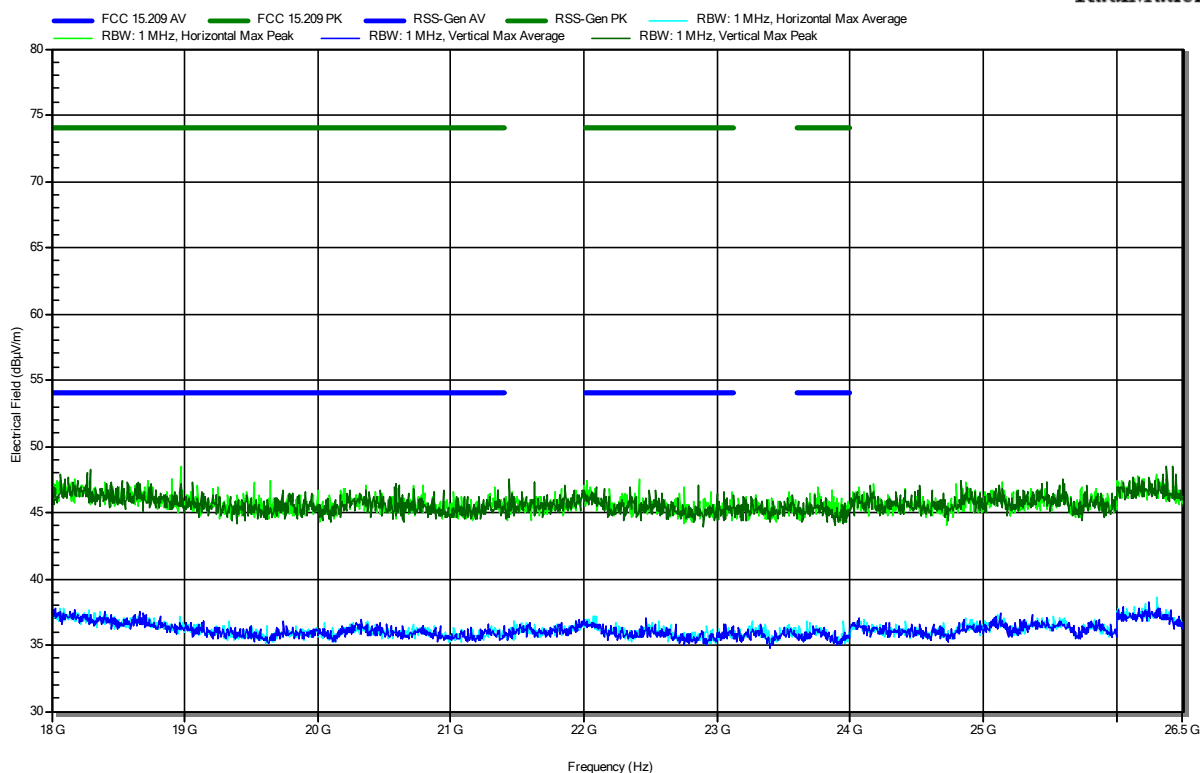


Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; BT-BR_CH 39 (2441 MHz)_DH5_PRBS_DUT mode
 Test Date: 2023-07-10
 Note: EUT horizontal

Index 25

RadiMation

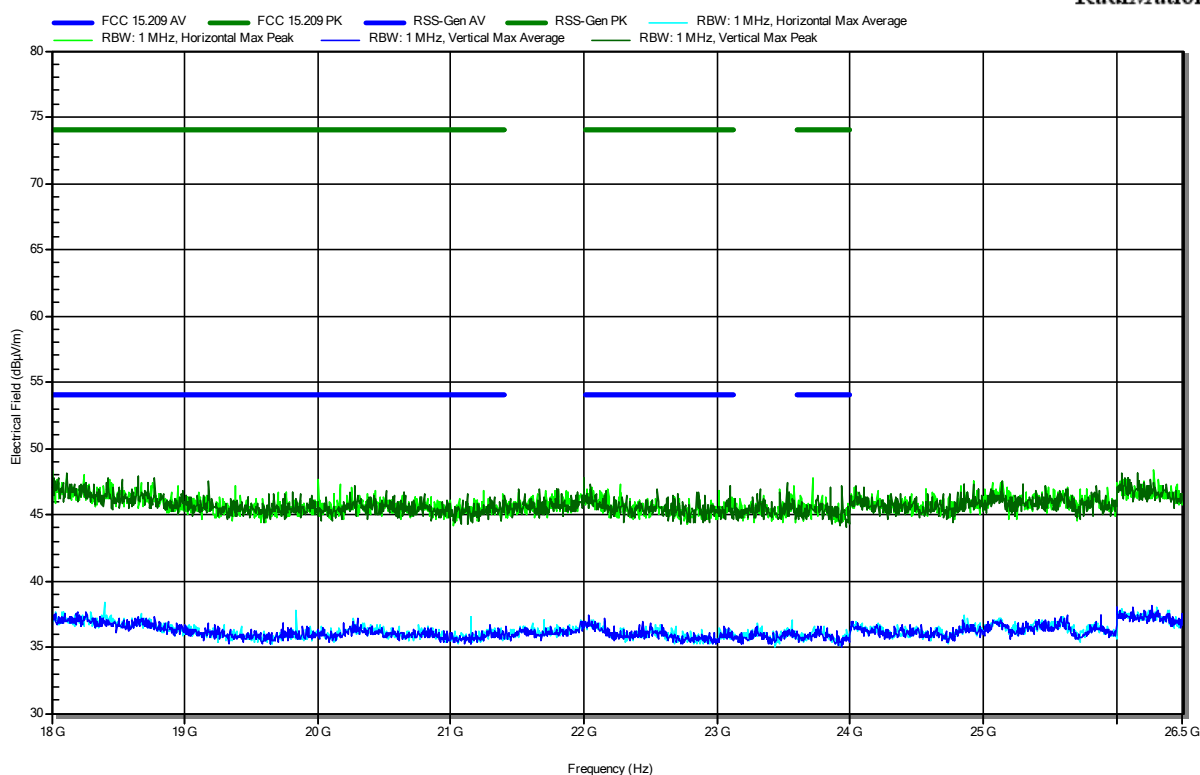


Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; BT-BR_CH 78 (2480 MHz)_DH5_PRBS_DUT mode
 Test Date: 2023-07-10
 Note: EUT horizontal

Index 24

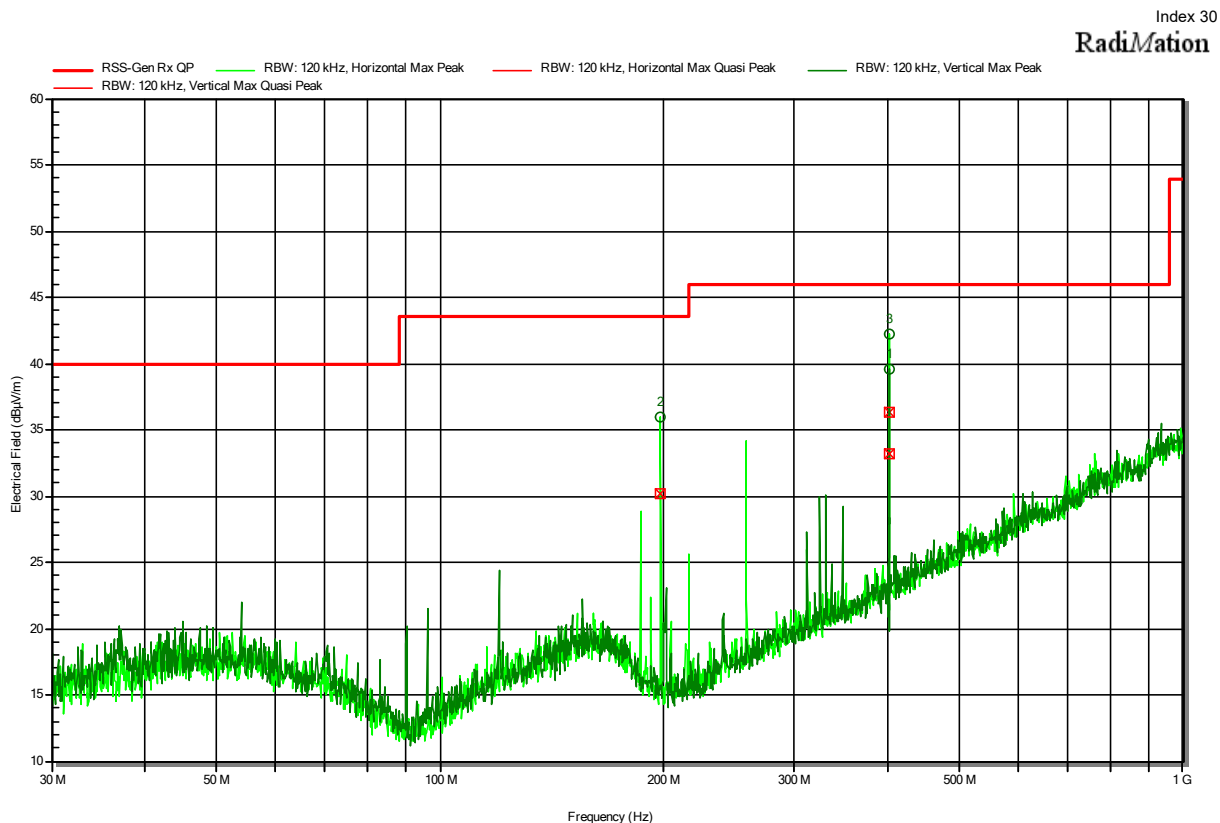
RadiMation



ANNEX B Receiver spurious emissions

Radiated Spurious Emissions according to RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Voigt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Rx; BT - Scan mode
 Test Date: 2023-07-14
 Note: EUT horizontal



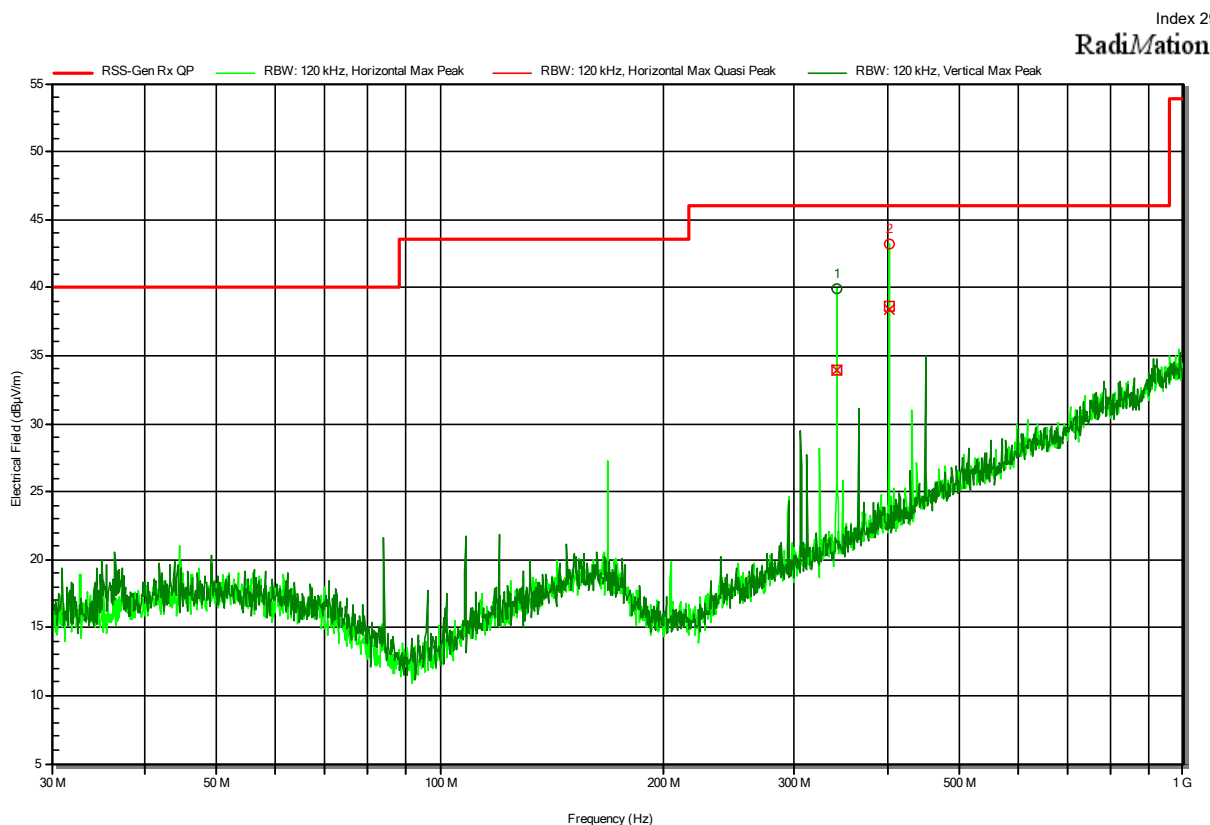
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
198.004 MHz	35.9 dBµV/m	43.5 dBµV/m	-7.59 dB	Pass	Horizontal
401.9977 MHz	42.2 dBµV/m	46 dBµV/m	-3.78 dB	Pass	Horizontal
402 MHz	39.6 dBµV/m	46 dBµV/m	-6.39 dB	Pass	Vertical
Frequency	Quasi-Peak	Quasi-Peak Limit	Q-Peak Difference	Quasi-Peak Status	Polarization
198.004 MHz	30.2 dBµV/m	43.5 dBµV/m	-13.27 dB	Pass	Horizontal
401.9977 MHz	36.3 dBµV/m	46 dBµV/m	-9.66 dB	Pass	Horizontal
402 MHz	33.2 dBµV/m	46 dBµV/m	-12.78 dB	Pass	Vertical

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Voigt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Rx; BT - Scan mode
 Test Date: 2023-07-14
 Note: EUT vertical



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
342.0005 MHz	39.9 dBµV/m	46 dBµV/m	-6.12 dB	Pass	Horizontal
401.992 MHz	43.2 dBµV/m	46 dBµV/m	-2.83 dB	Pass	Horizontal

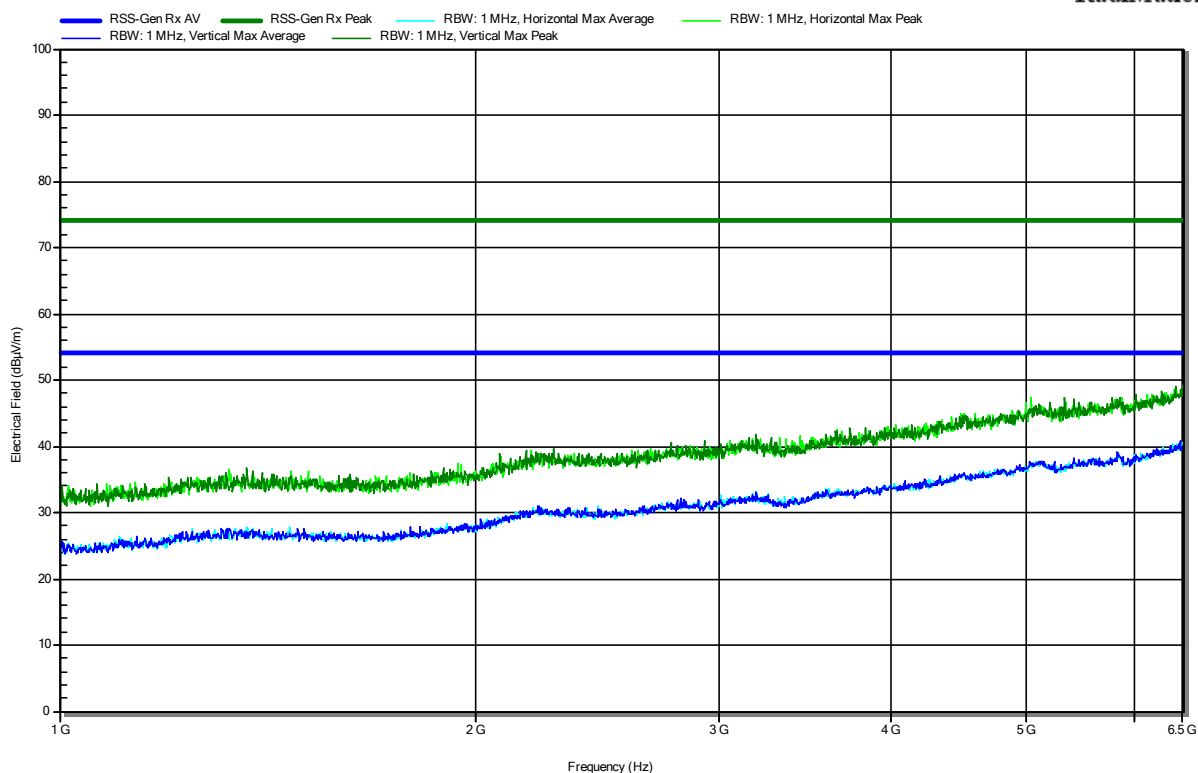
Frequency	Quasi-Peak	Quasi-Peak Limit	Q-Peak Difference	Quasi-Peak Status	Polarization
342.0005 MHz	33.9 dBµV/m	46 dBµV/m	-12.1 dB	Pass	Horizontal
401.992 MHz	38.6 dBµV/m	46 dBµV/m	-7.42 dB	Pass	Horizontal

Radiated Spurious Emissions according to RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Voigt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Rx; BT - Scan mode
 Test Date: 2023-07-15
 Note: EUT vertical

Index 38

RadiMation

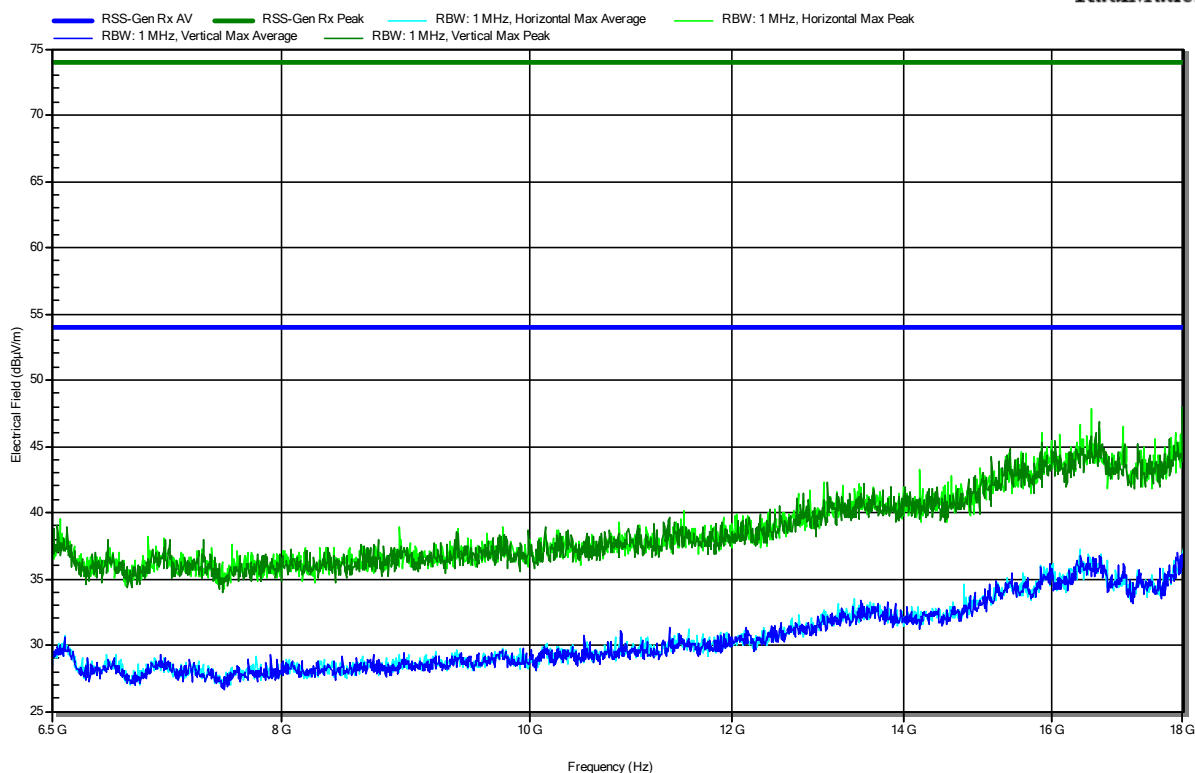


Radiated Spurious Emissions according to RSS-247 Issue 3

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44644 (SN: 00213E8059F6)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Voigt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 V DC (24 V DC)
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Rx; BT - Scan mode
 Test Date: 2023-07-15
 Note: EUT vertical

Index 39

RadiMation



== = END OF TEST REPORT == =

Test Report No.: G0M-2306-2102-TFC247BT-V02

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany