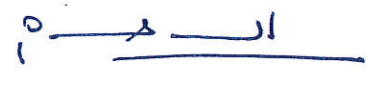


RADIO REPORT FCC 47 CFR Part 15C ISED Canada RSS-247 Frequency hopping systems operating within the 2400 – 2483.5 MHz band	
Report Reference No	G0M-2001-8775-TFC247BT-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	    DAkkS - Registration number : D-PL-12092-01-03 (ISED) ISED Testing Laboratory site: 3470A-2 DAkkS - Registration number : D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970
Applicant	Webfleet Solutions B.V.
Address	De Ruijterkade 154 1011 ac Amsterdam The Netherlands
Test Specification	47 CFR Part 15C RSS-247, Issue 2, 2017-02 RSS-Gen, Issue 5, Amendment 1, 2019-03
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	Telematic Device with GSM+LTE+GNSS+BT
Model(s)	L0740
Additional Model(s)	None
Brand Name(s)	Not specified
Hardware Version(s)	46/2019
Software Version(s)	8.1
FCC-ID	2AGPAL0740
IC	20911-L0740
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 - 23 °C	
Test Lab Humidity	32 – 38 %	
Date of receipt of test item	2020-02-11	Test Sample ID 27955 Test Sample ID 27956
Report:		
Compiled by	Abdullah Al Jamal	
Tested by (+ signature) (Responsible for Test)	Abdullah Al Jamal	
Approved by (+ signature) (Head of Lab)	Christian Weber	
Date of Issue	2020-04-29	
Total number of pages	122	
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	2020-04-29	Initial Release	

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
BR	Bluetooth Basic Rate mode
EDR	Bluetooth Enhanced Data Rate mode
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

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1 Equipment (Test Item) Under Test

Description	Telematic Device with GSM+LTE+GNSS+BT	
Model	L0740	
Additional Model(s)	None	
Brand Name(s)	Not specified	
Serial Number(s)	MW6020I00013	Test Sample ID 27955 (radiated measurements)
	MW6020I00078	Test Sample ID 27956 (conducted measurements)
Hardware Version(s)	46/2019	
Software Version(s)	8.1	
PMN	LINK 740	
HVIN	L0740	
FVIN	8.1	
HMN	n/a	
FCC-ID	2AGPAL0740	
IC	20911-L0740	
Equipment type	End Product	
Radio type	Transceiver	
Assigned frequency bands	2400 MHz - 2483.5 MHz	
Radio technology	Bluetooth	
Modulation	GFSK, PI/4-DQPSK, 8-DPSK	
Number of antenna ports	1	
Antenna	Type	Integrated antenna
	Model	PCB trace
	Manufacturer	Webfleet Solutions
	Gain	0 dBi (declared by applicant)
Supply Voltage 1	V _{NOM}	24.0 VDC
Supply Voltage 2	V _{NOM}	12.0 VDC (internal battery)
Operating Temperature	T _{NOM}	25 °C
AC/DC-Adaptor	Model	N/A
	Vendor	N/A
	Input	N/A
	Output	N/A
Manufacturer	Webfleet Solutions B.V. De Ruijterkade 154 1011 ac Amsterdam The Netherlands	

1.1 Photos – Equipment External



¹EUT measurement position VERTICAL

²EUT measurement position HORIZONTAL

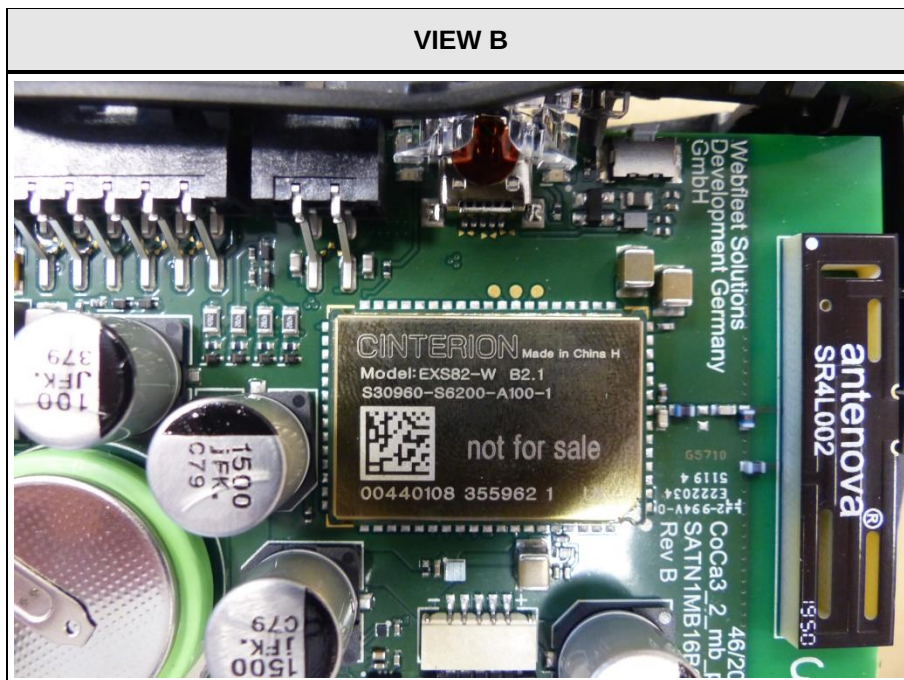
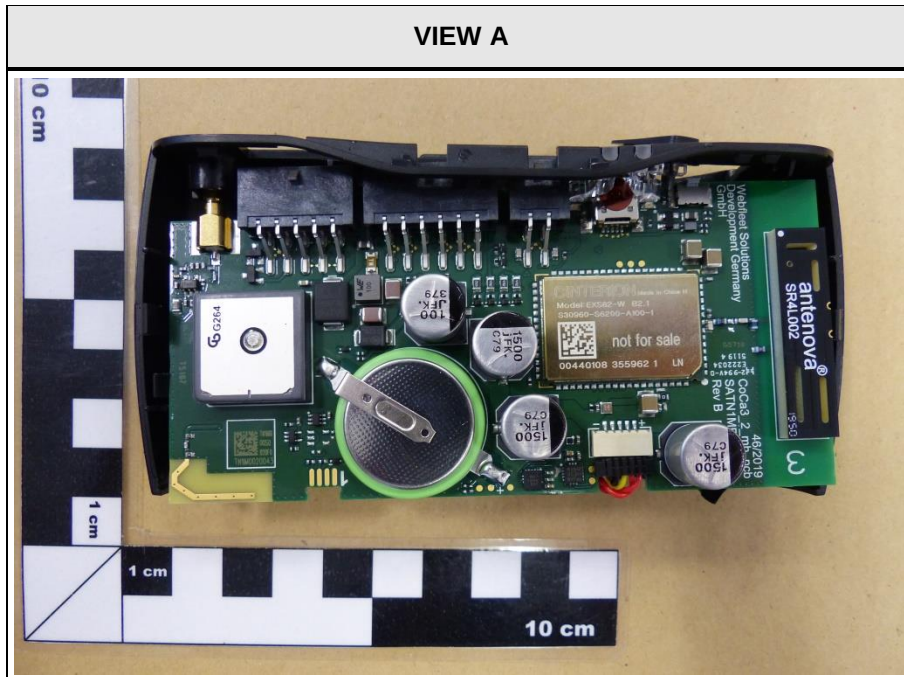
VIEW C



VIEW D



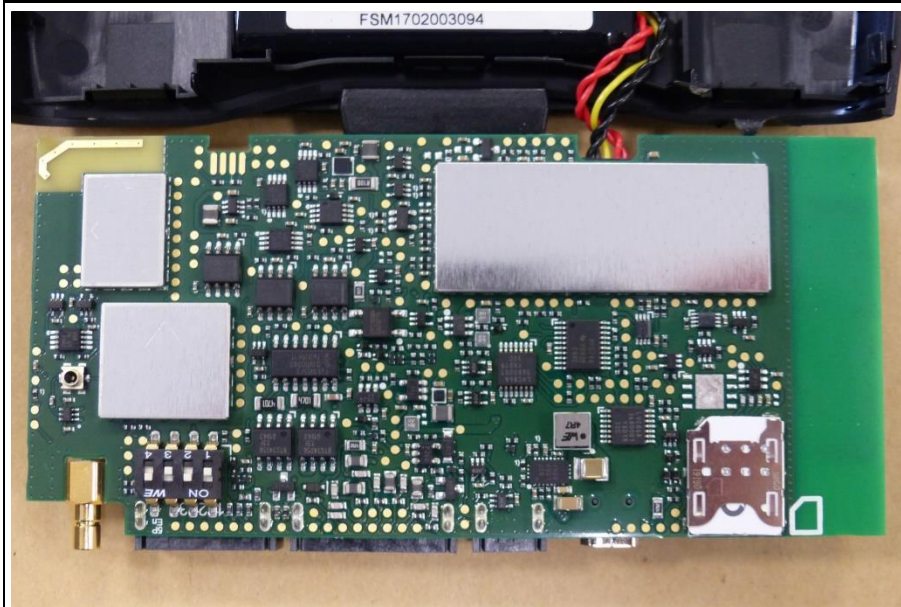
1.2 Photos – Equipment Internal



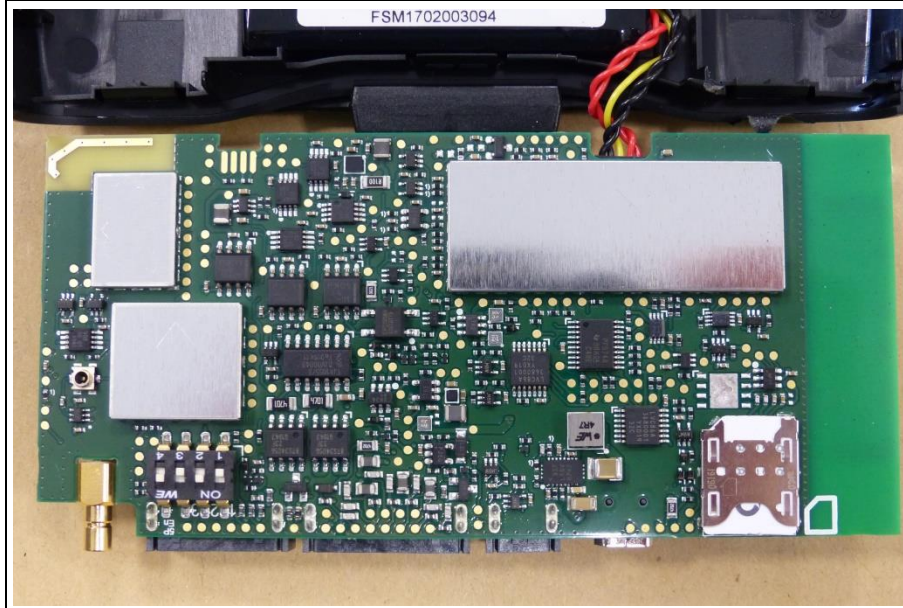
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VIEW D



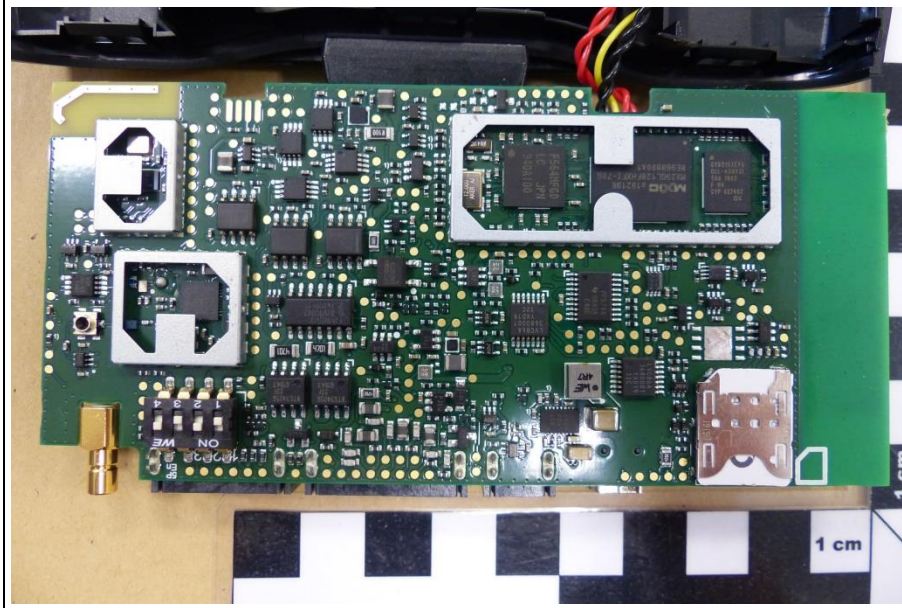
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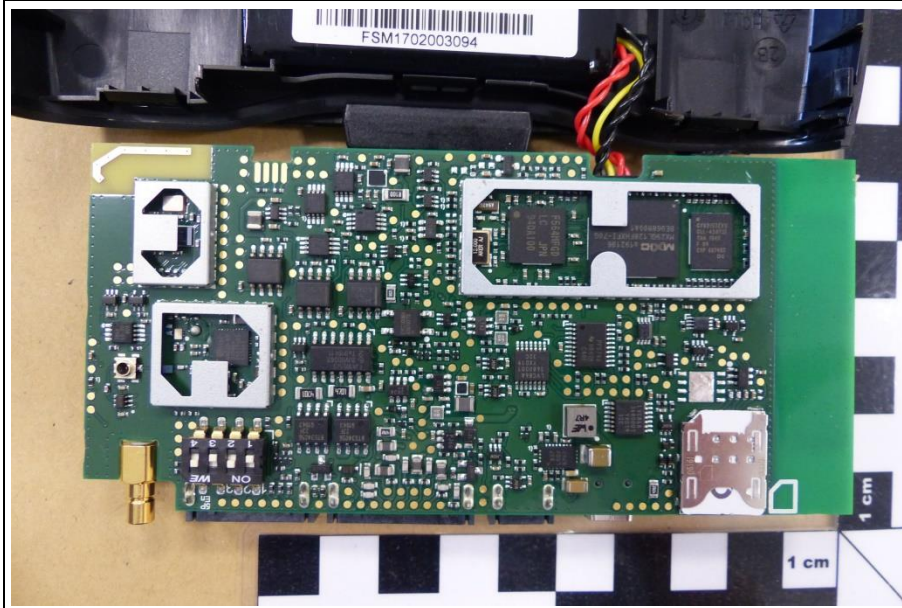
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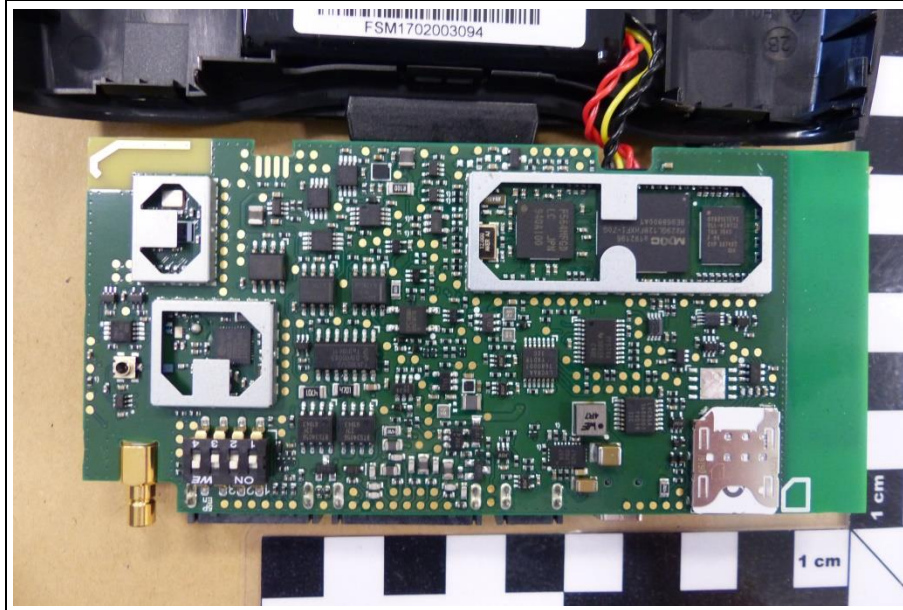
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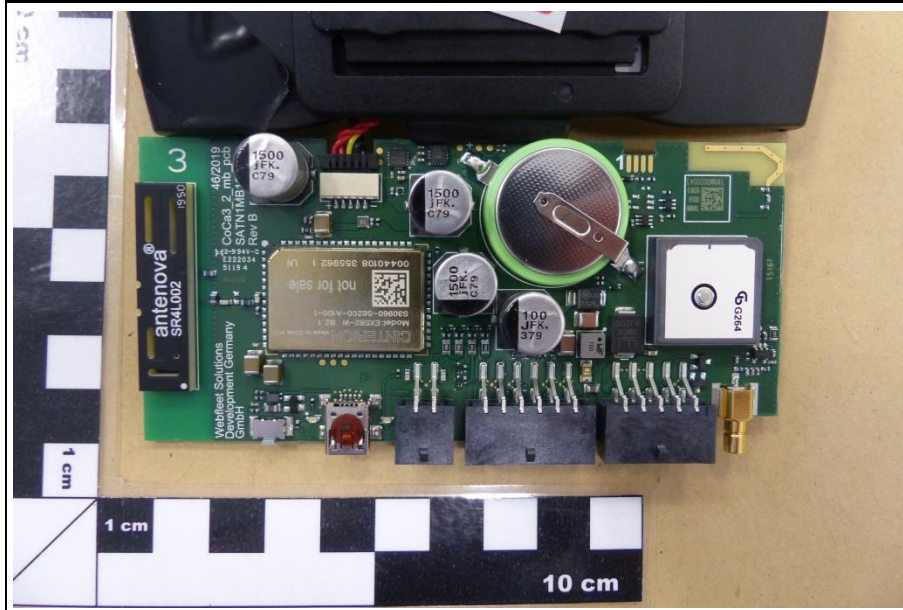
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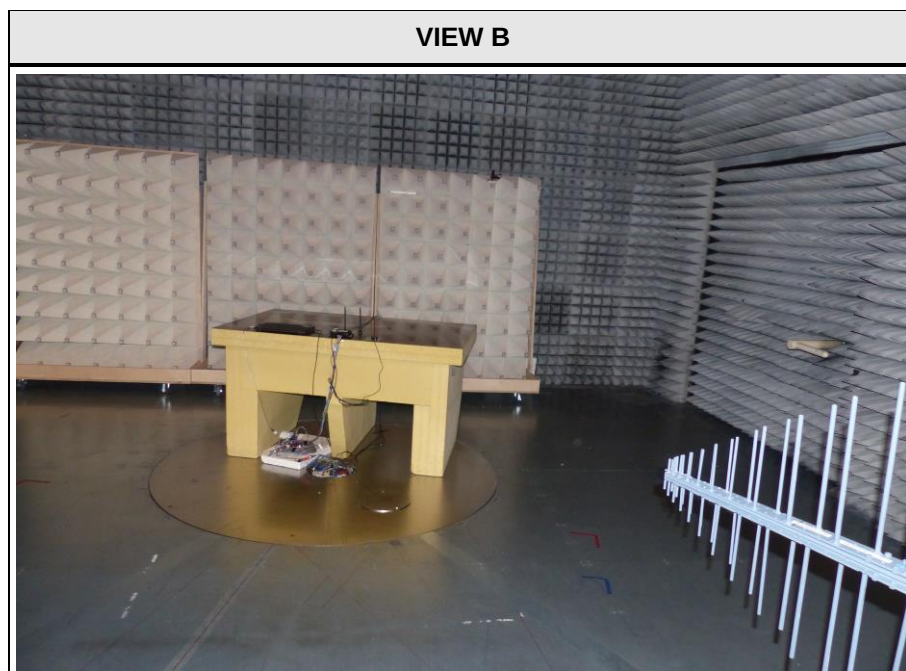
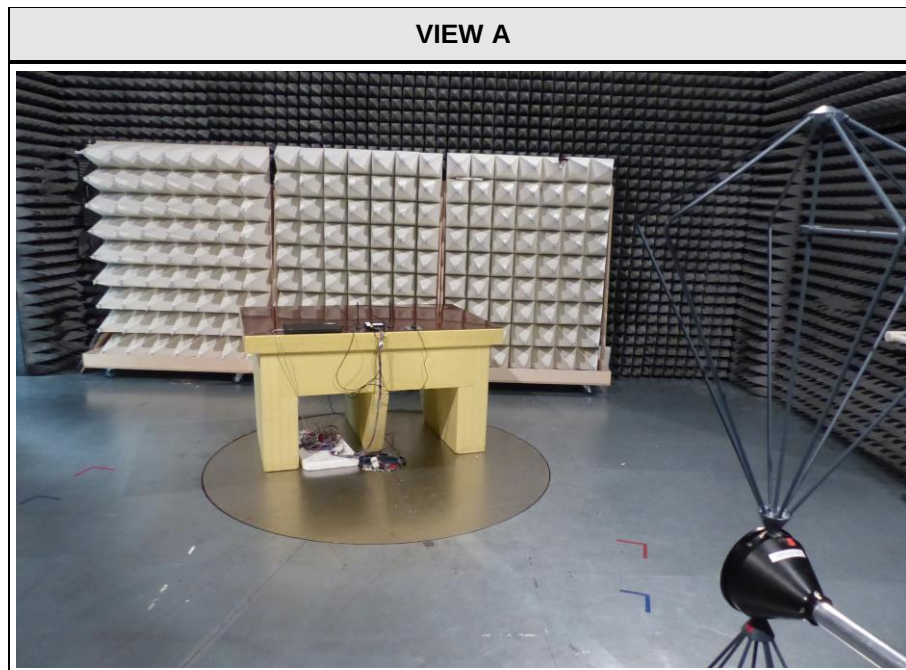
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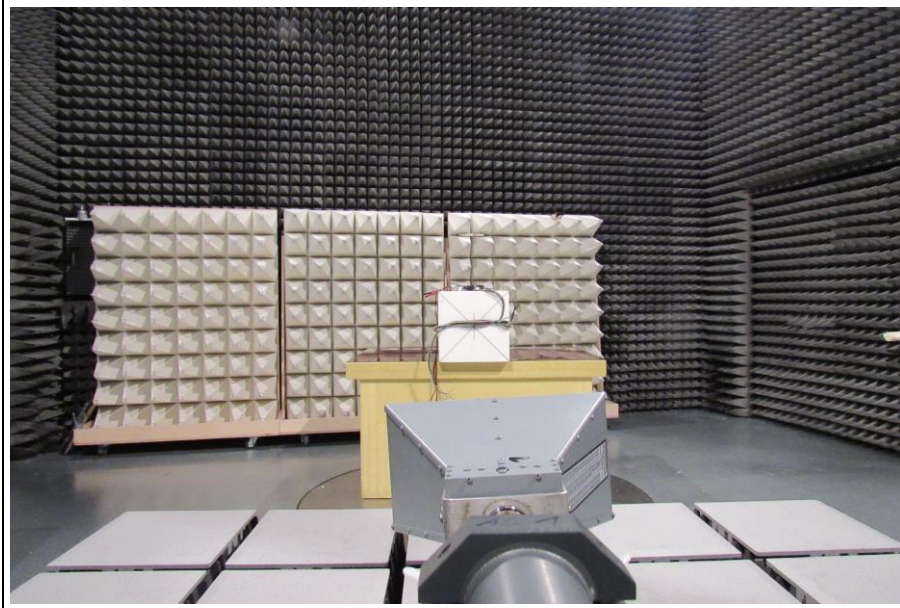
VIEW J



1.3 Photos – Test Setup



VIEW C



1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
SIM	Communication Tester	R&S	CBT	Signalling
AE1	Notebook	Lenovo	L470	Serial number PF0VH6SK
AE2	Power Supply AC Adapter	Lenovo	ADLX65NCC3A	2015/07
AE3	GPS / Glonass / Galileo antenna	2J Antenna	2JD01MPG	Test Sample ID 27960
CBL	Standard IO Interface cable	Not specified	Not specified	length = 3 m – Test Sample ID 27959
Description:				
AE1 – AE3	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment: None.				

1.5 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
Comment: None.	

1.6 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

1.7 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 dBμV. 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).

Limit:

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

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

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.

Example only:

Reading + AF	= Net Reading	:	Net reading - FCC limit	= Margin
+21.5 dBμV + 26 dB/m	= 47.5 dBμV/m	:	47.5 dBμV/m - 57.0 dBμV/m	= -9.5 dB

2 Result Summary

FCC 47 CFR Part 15C, ISED RSS-247				
Product Standard Reference	Requirement	Reference Method	Result	Remarks
ISED RSS-Gen, Issue 5 (section 6.6)	Occupied Bandwidth	ANSI C63.10-2013	N/R	Informational only
FCC § 15.247(a)(1) ISED RSS-247 § 5.1 Issue 2	20 dB Bandwidth	ANSI C63.10-2013	PASS	
FCC § 15.247(a)(1)(iii) ISED RSS-247, Issue 2 (section 5.1)	Number of hopping frequencies	ANSI C63.10-2013	PASS	
FCC § 15.247(a)(1) ISED RSS-247, Issue 2 (section 5.1)	Frequency hopping channel separation	ANSI C63.10-2013	PASS	
FCC § 15.247(a)(1)(iii) ISED RSS-247, Issue 2 (section 5.1)	Time of occupancy (Dwell time)	ANSI C63.10-2013	PASS	
FCC § 15.247(b)(1) ISED RSS-247, Issue 2 (section 5.4)	Maximum peak conducted power	ANSI C63.10-2013	PASS	
FCC § 15.207 ISED RSS-247, Issue 2 (section 3.1)	AC power line conducted emissions	ANSI C63.10-2013	N/R	
FCC § 15.247(d) ISED RSS-247, Issue 2 (section 5.5)	Band edge compliance	ANSI C63.10-2013	PASS	
FCC § 15.247(d) ISED RSS-247, Issue 2 (section 5.5)	Conducted spurious emissions	ANSI C63.10-2013	PASS	
FCC § 15.247(d) FCC § 15.209 ISED RSS-Gen, Issue 5 (section 6.13)	Transmitter radiated spurious emissions	ANSI C63.10-2013	PASS	
ISED RSS-247, Issue 2 (section 3.1)	Receiver radiated spurious emissions	ANSI C63.10-2013	PASS	
Comment: None.				

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

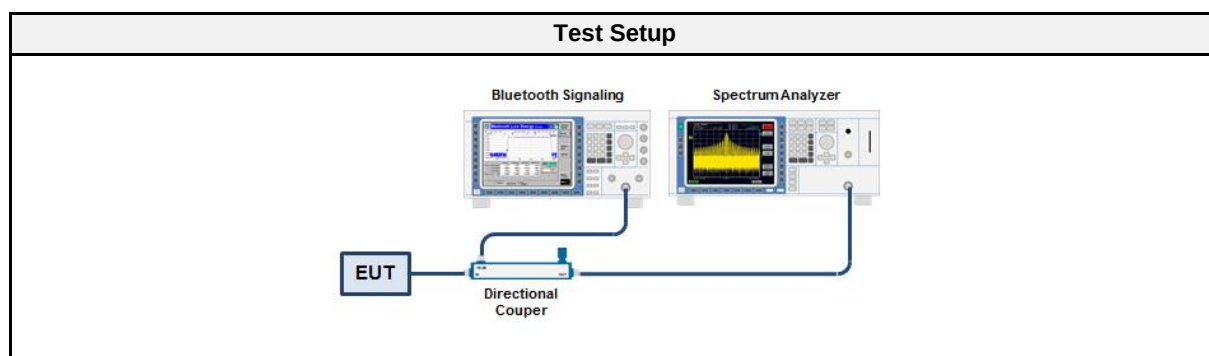
3.1.1 Information

Test Information	
Reference	ISED RSS-Gen, Issue 5 (section 6.6)
Measurement Method	ANSI C63.10 6.9.3
Operator	Abdullah Al Jamal
Date	2020-02-18

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 Analyzer	R&S	FSP 30	EF00312	2019-07	2020-07

3.1.5 Procedure

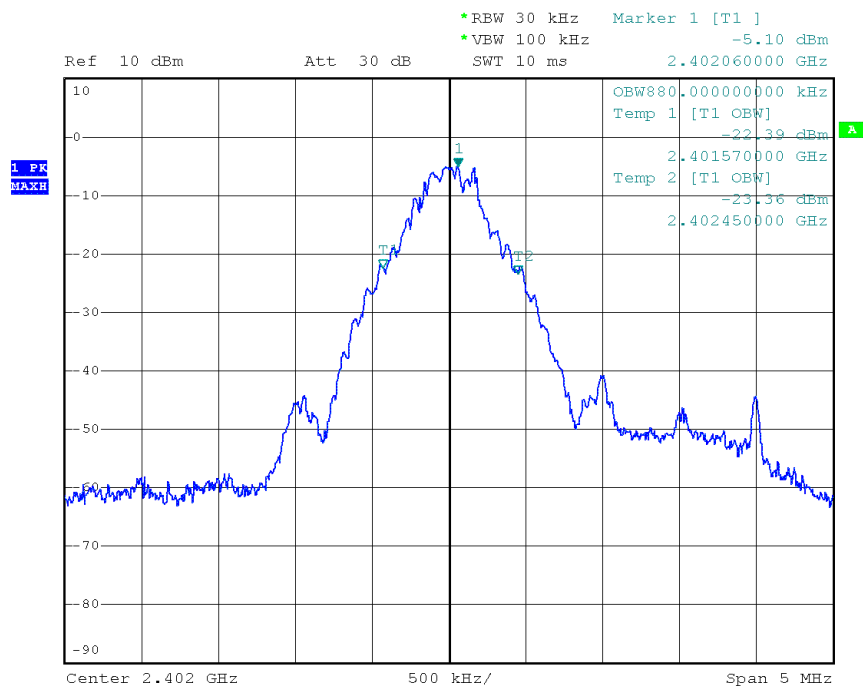
Test Procedure
1. EUT transmitter is activated in test mode under normal conditions 2. The spectrum analyzer is set to peak detection and maximum hold with a span twice the emission spectrum 3. The resolution bandwidth is set to the range of 1 % to 5 % of the occupied bandwidth 4. The occupied bandwidth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

3.1.6 Results

Test Results		
Mode	Frequency [MHz]	Bandwidth [MHz]
DH5	2402	0.880
DH5	2441	0.875
DH5	2480	0.880
2-DH5	2402	1.170
2-DH5	2441	1.170
2-DH5	2480	1.170
3-DH5	2402	1.180
3-DH5	2441	1.175
3-DH5	2480	1.185

Occupied Bandwidth

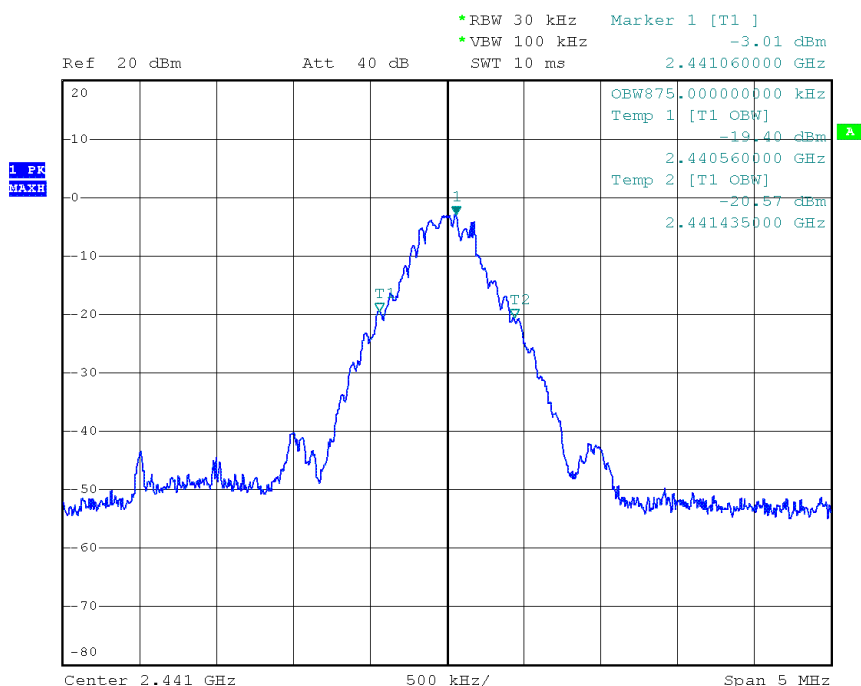
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Occupied Bandwidth [MHz]: 0.880



Date: 18.FEB.2020 15:10:55

Occupied Bandwidth

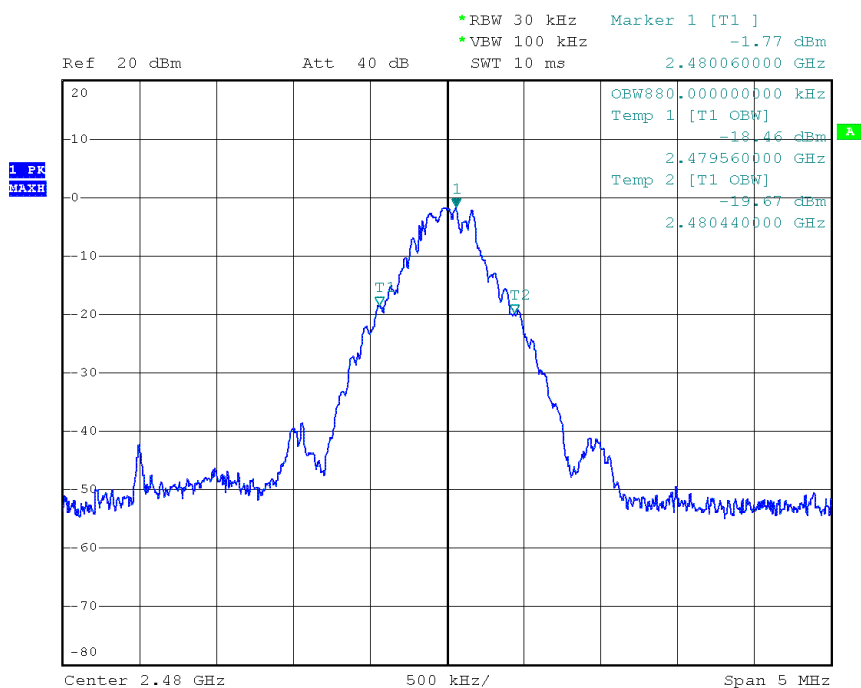
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Occupied Bandwidth [MHz]: 0.875



Date: 18.FEB.2020 15:12:20

Occupied Bandwidth

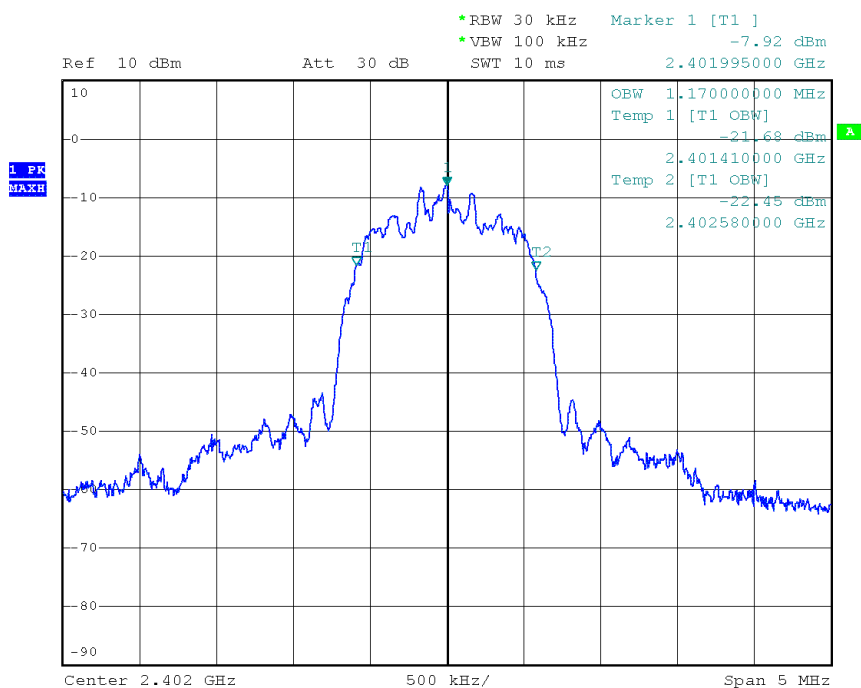
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Occupied Bandwidth [MHz]: 0.880



Date: 18.FEB.2020 15:14:22

Occupied Bandwidth

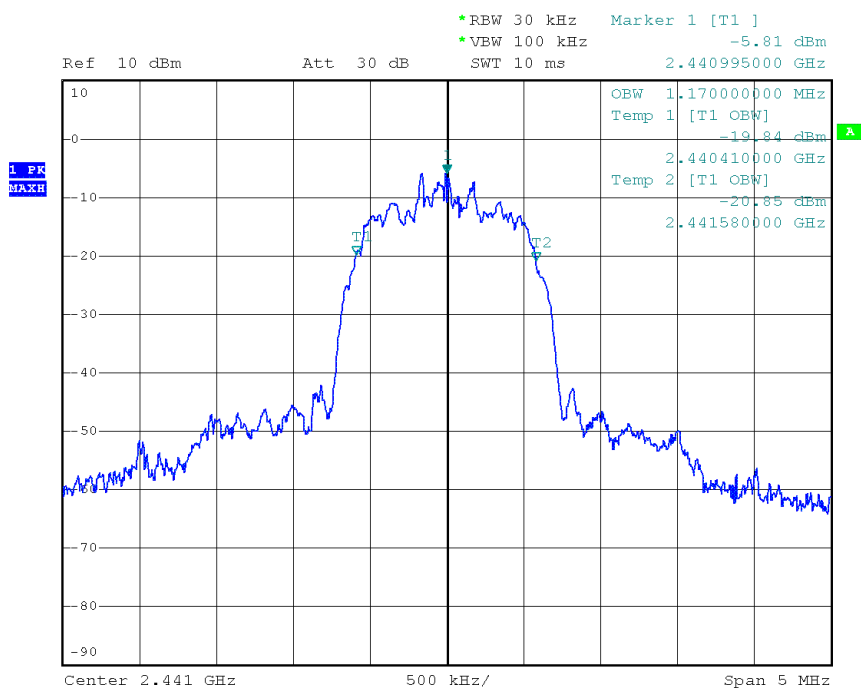
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: 2-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Occupied Bandwidth [MHz]: 1.170



Date: 18.FEB.2020 15:16:05

Occupied Bandwidth

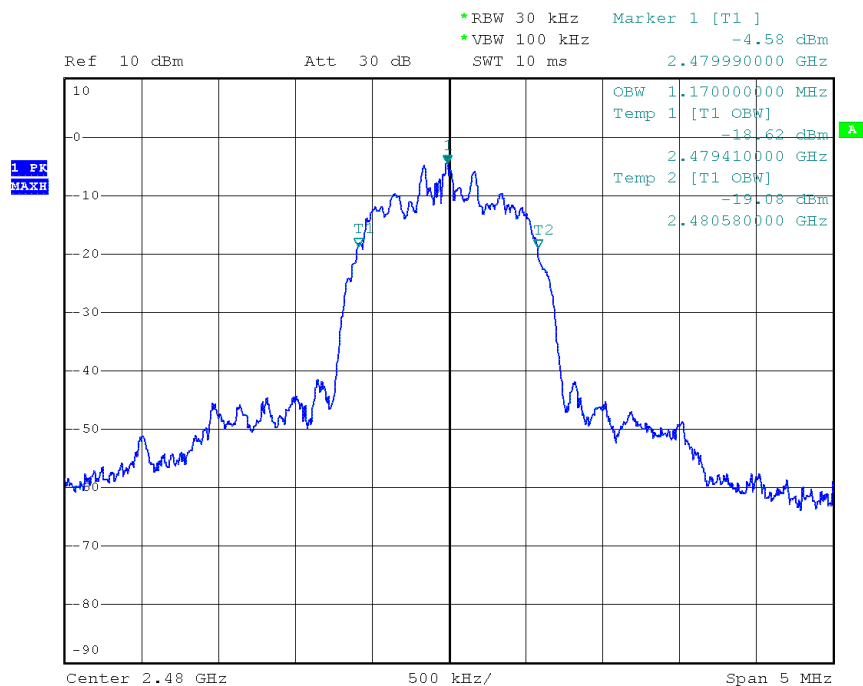
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: 2-DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Occupied Bandwidth [MHz]: 1.170



Date: 18.FEB.2020 15:17:29

Occupied Bandwidth

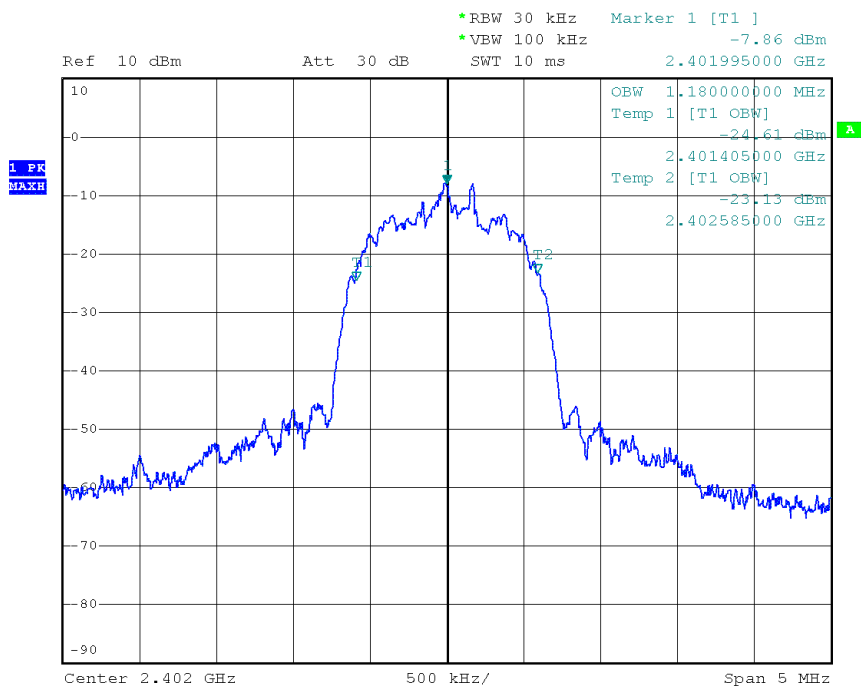
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 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: 2-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Occupied Bandwidth [MHz]: 1.170



Date: 18.FEB.2020 15:19:36

Occupied Bandwidth

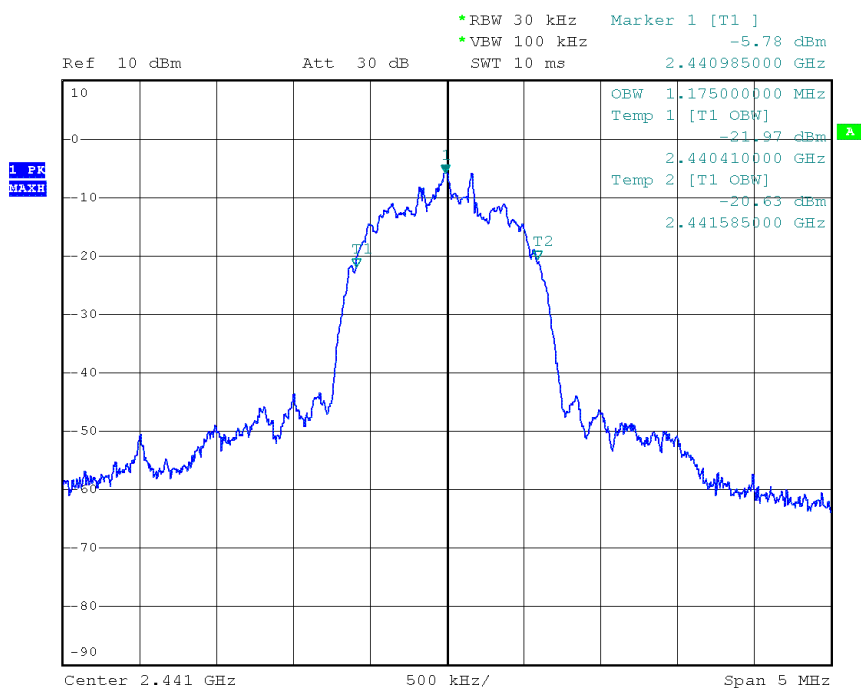
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: 3-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Occupied Bandwidth [MHz]: 1.180



Date: 18.FEB.2020 15:21:26

Occupied Bandwidth

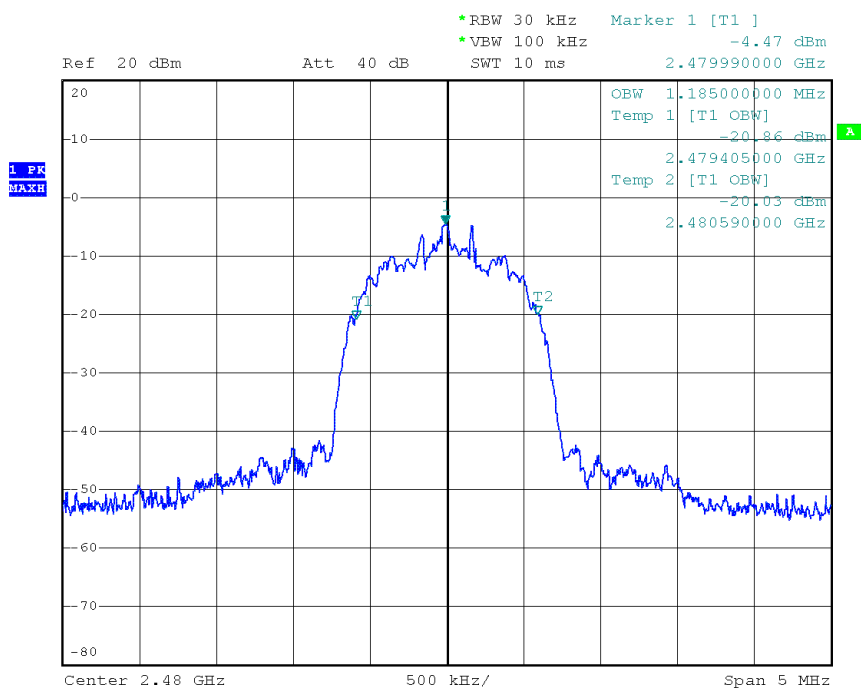
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: 3-DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Occupied Bandwidth [MHz]: 1.175



Date: 18.FEB.2020 15:23:11

Occupied Bandwidth

Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 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: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Occupied Bandwidth [MHz]: 1.185



Date: 18.FEB.2020 15:24:41

3.2 Test Conditions and Results - 20 dB bandwidth

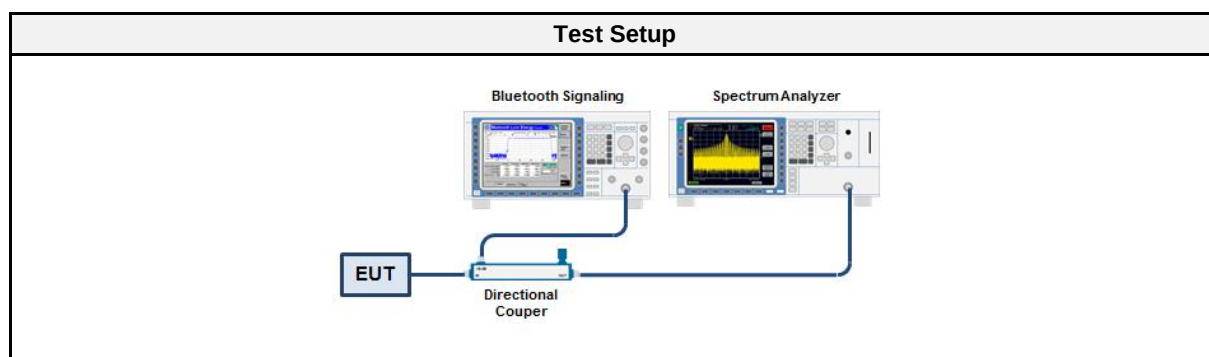
3.2.1 Information

Test Information	
Reference	FCC 15.247(a)(1) / ISED RSS-247 5.1
Measurement Method	ANSI C63.10 6.9.2
Operator	Abdullah Al Jamal
Date	2020-02-18

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 Analyzer	R&S	FSP 30	EF00312	2019-07	2020-07

3.2.5 Procedure

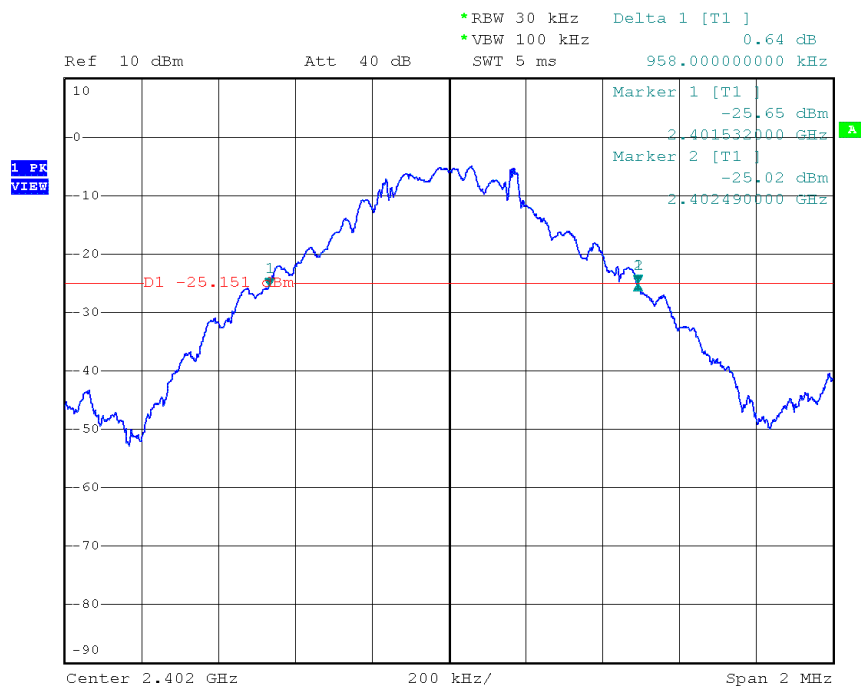
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to at least twice the emission spectrum 3. Detector set to peak and max hold 4. Envelope peak value of emission spectrum is selected 5. Marker on envelope of spectrum is set to level of -20 dB to the left of the 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	0.958
DH5	2441	0.956
DH5	2480	0.962
2-DH5	2402	1.314
2-DH5	2441	1.314
2-DH5	2480	1.316
3-DH5	2402	1.300
3-DH5	2441	1.296
3-DH5	2480	1.300

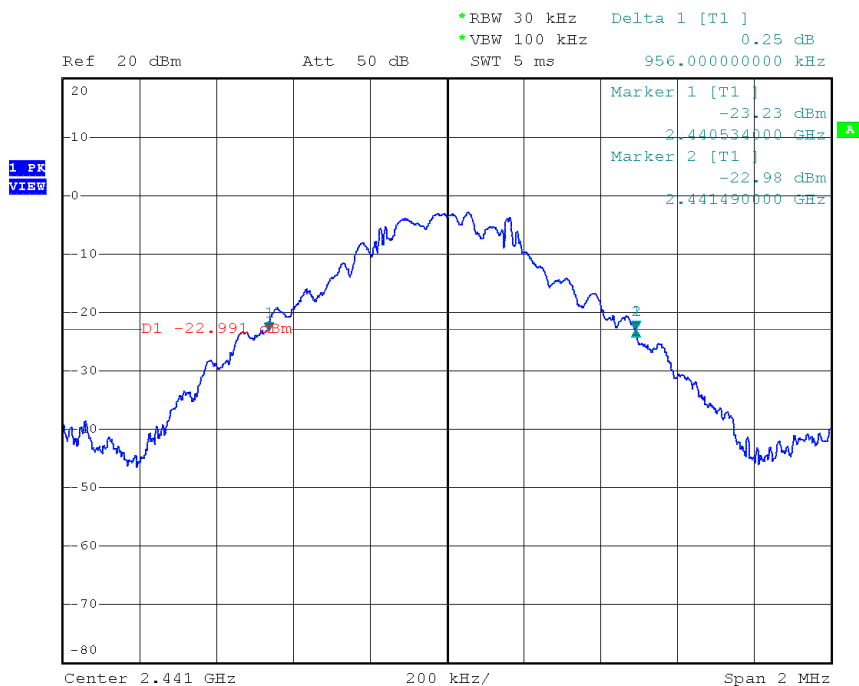
20 dB Bandwidth

Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 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: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Lower Frequency [MHz]: 2401.532
 Upper Frequency [MHz]: 2402.490
 20 dB Bandwidth [MHz]: 0.958



20 dB Bandwidth

Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 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: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Lower Frequency [MHz]: 2440.534
 Upper Frequency [MHz]: 2441.490
 20 dB Bandwidth [MHz]: 0.956



Date: 18.FEB.2020 15:50:21

20 dB Bandwidth

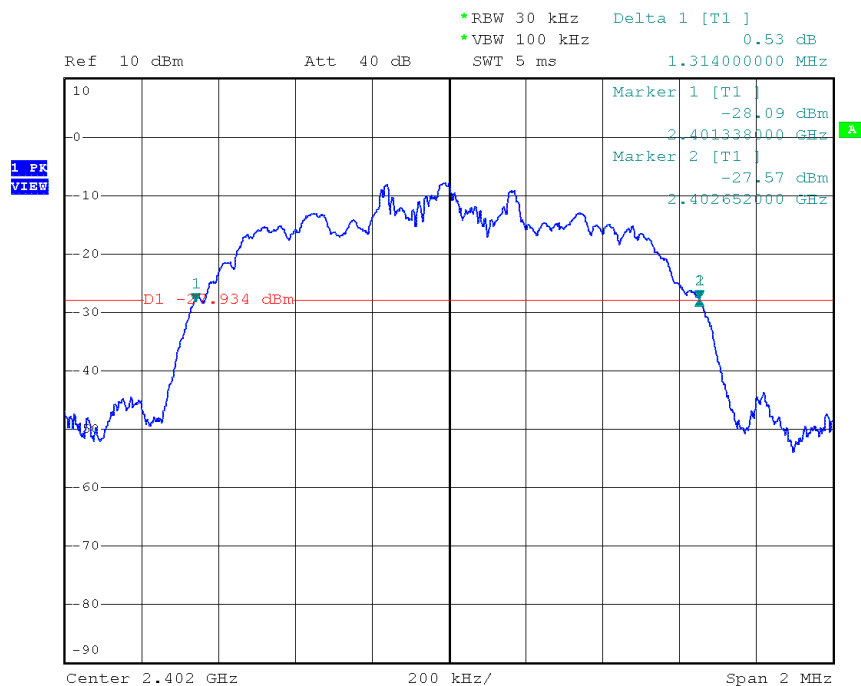
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Lower Frequency [MHz]: 2479.528
 Upper Frequency [MHz]: 2480.490
 20 dB Bandwidth [MHz]: 0.962



Date: 18.FEB.2020 15:50:57

20 dB Bandwidth

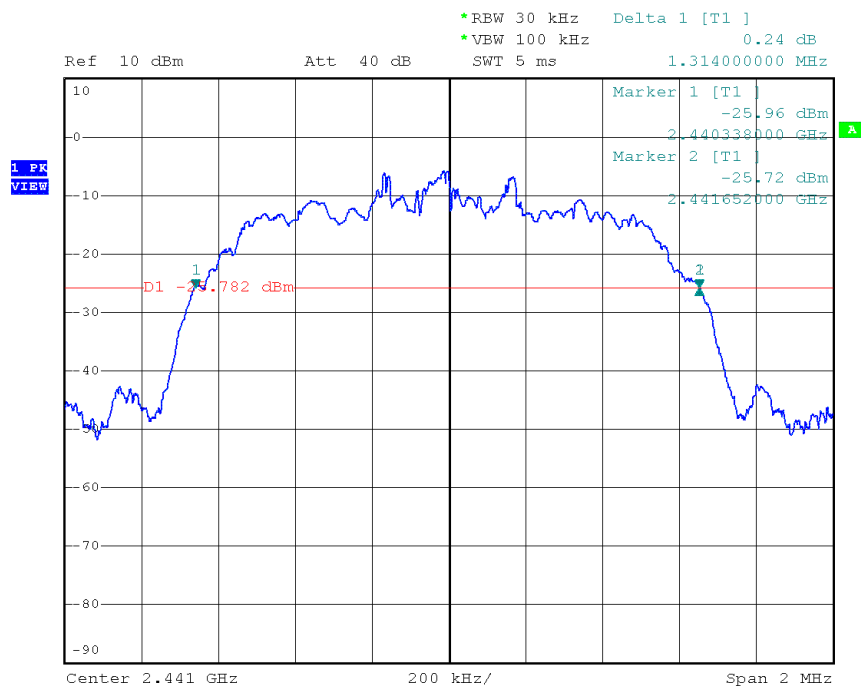
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: 2-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Lower Frequency [MHz]: 2401.338
 Upper Frequency [MHz]: 2402.652
 20 dB Bandwidth [MHz]: 1.314



Date: 18.FEB.2020 15:51:34

20 dB Bandwidth

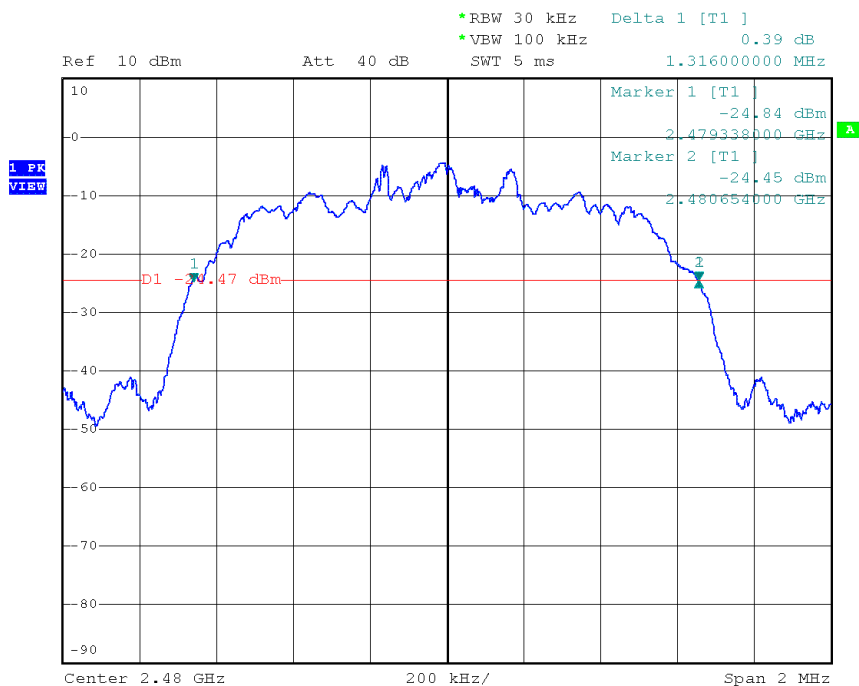
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: 2-DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Lower Frequency [MHz]: 2440.338
 Upper Frequency [MHz]: 2441.652
 20 dB Bandwidth [MHz]: 1.314



Date: 18.FEB.2020 15:52:06

20 dB Bandwidth

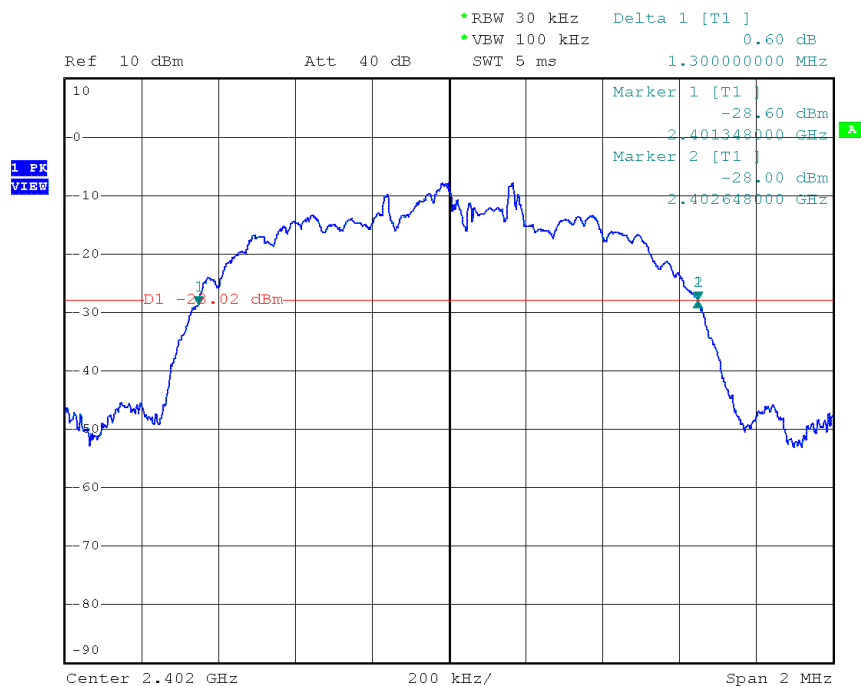
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: 2-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Lower Frequency [MHz]: 2479.338
 Upper Frequency [MHz]: 2480.654
 20 dB Bandwidth [MHz]: 1.316



Date: 18.FEB.2020 15:52:48

20 dB Bandwidth

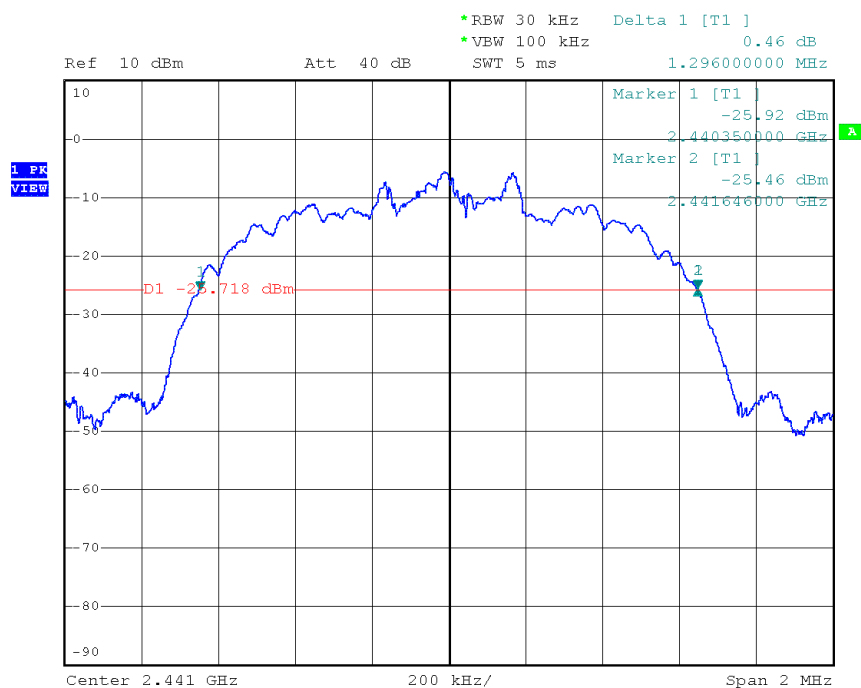
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: 3-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Lower Frequency [MHz]: 2401.348
 Upper Frequency [MHz]: 2402.648
 20 dB Bandwidth [MHz]: 1.300



Date: 18.FEB.2020 15:53:29

20 dB Bandwidth

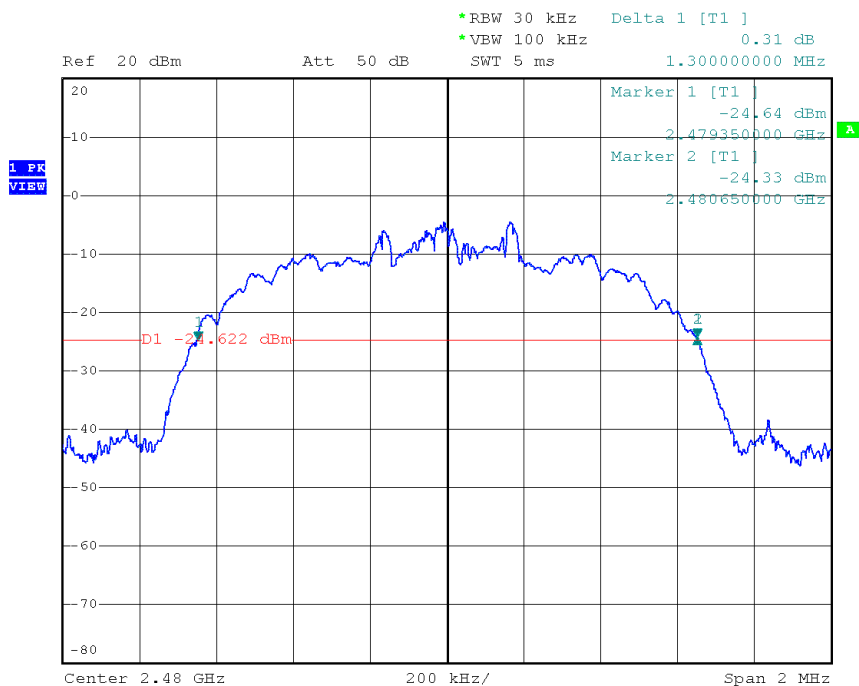
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: 3-DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Lower Frequency [MHz]: 2440.350
 Upper Frequency [MHz]: 2441.646
 20 dB Bandwidth [MHz]: 1.296



Date: 18.FEB.2020 15:54:14

20 dB Bandwidth

Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 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: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Lower Frequency [MHz]: 2479.350
 Upper Frequency [MHz]: 2480.650
 20 dB Bandwidth [MHz]: 1.300



Date: 18.FEB.2020 15:54:51

3.3 Test Conditions and Results - Number of hopping frequencies

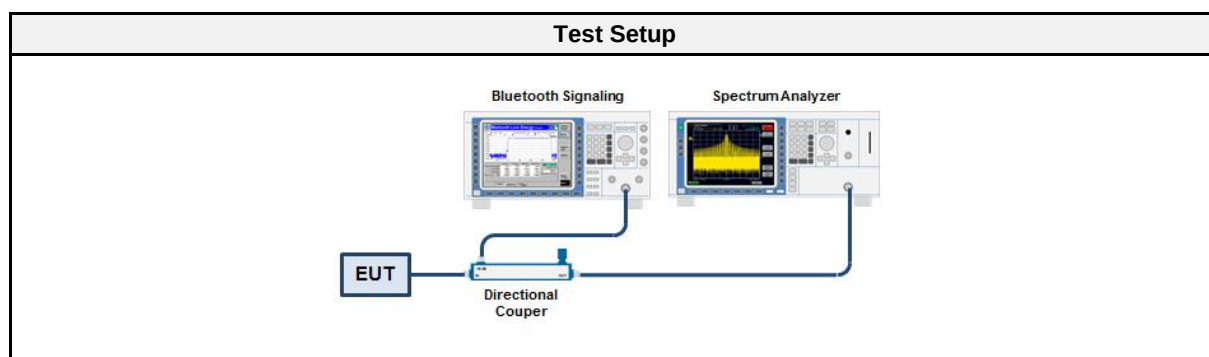
3.3.1 Information

Test Information	
Reference	FCC § 15.247(a)(1)(iii); ISED RSS-247, Issue 2 (section 5.1)
Measurement Method	ANSI C63.10 7.8.3
Operator	Abdullah Al Jamal
Date	2020-02-18

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 Analyzer	R&S	FSP 30	EF00241	2019-07	2021-07

3.3.5 Procedure

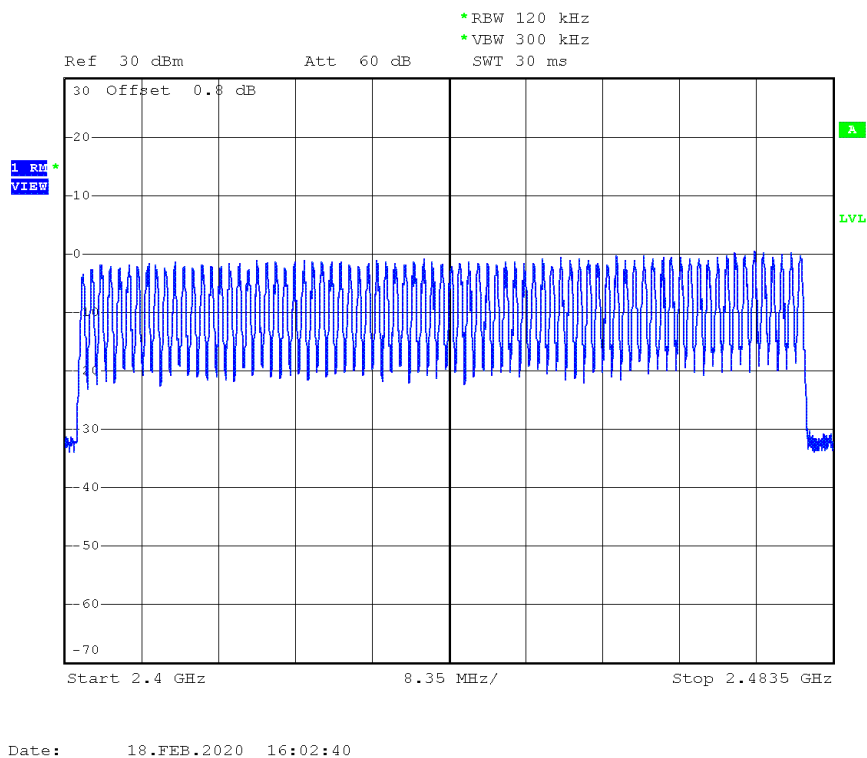
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to measurement frequency range 3. Detector set to peak and max hold 4. Resolution bandwidth is set small enough to resolve hopping channel emission spectra 5. The number of peaks is counted to determine number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

3.3.6 Results

Test Results		
Number of hopping frequencies	Limit	Verdict
79	≥ 15	PASS

Number of hopping frequencies

Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 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: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Number of Hopping Channels: 79



3.4 Test Conditions and Results - Frequency hopping channel separation

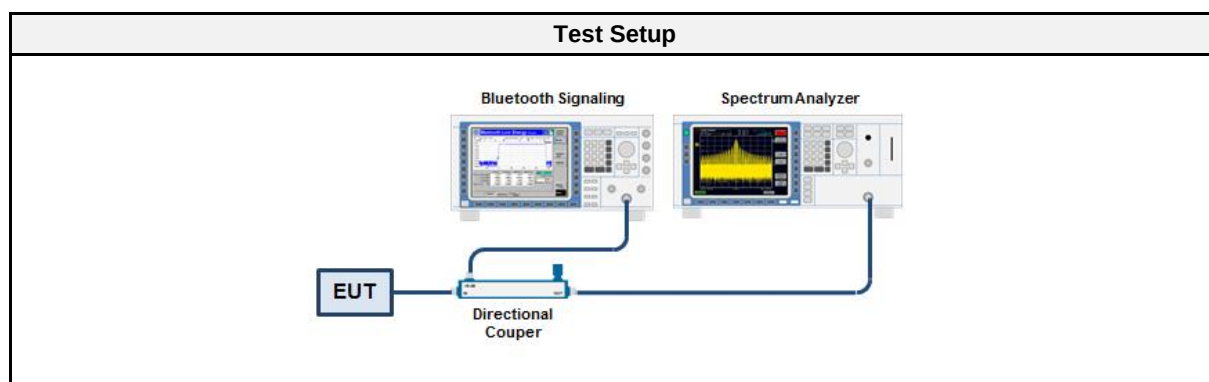
3.4.1 Information

Test Information	
Reference	FCC § 15.247(a)(1); ISSED RSS-247, Issue 2 (section 5.1)
Measurement Method	ANSI C63.10 7.8.4
Operator	Abdullah Al Jamal
Date	2020-02-18

3.4.2 Limits

Limit
≥ 25 kHz or $\frac{2}{3}$ of 20 dB bandwidth

3.4.3 Setup



3.4.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2019-07	2020-07

3.4.5 Procedure

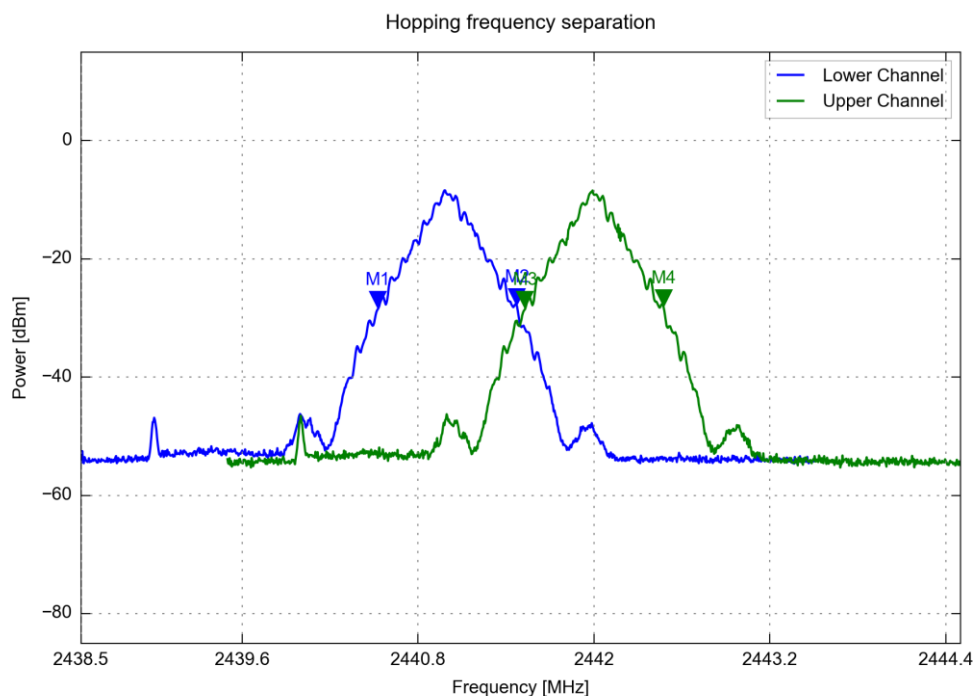
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to measurement frequency range 3. Detector set to peak and max hold 4. Resolution bandwidth is set small enough to resolve hopping channel emission spectra 5. The two adjacent channel peaks are marked 6. Channel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

3.4.6 Results

Test Results			
Mode	Channel separation [kHz]	Limit [kHz]	Verdict
DH5	1.003	$\geq \frac{2}{3} \cdot 956 = 637.3$	PASS
2-DH5	1.000	$\geq \frac{2}{3} \cdot 1314 = 876$	PASS
3-DH5	1.000	$\geq \frac{2}{3} \cdot 1296 = 864$	PASS

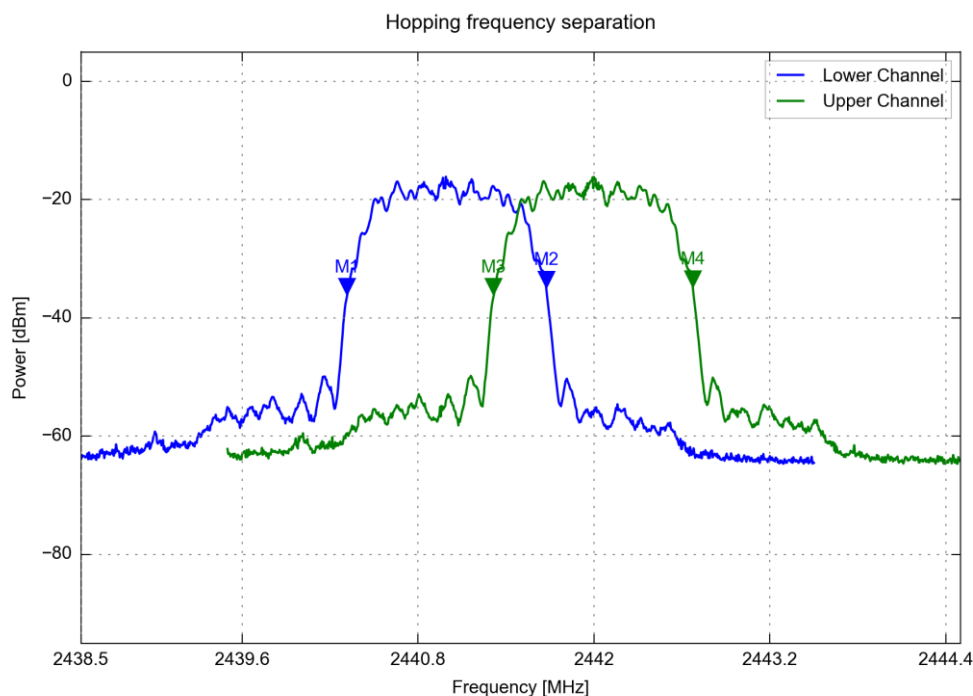
Hopping frequency separation

Project Number:	G0M-2001-8775
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+BT
Model:	L0740
Test Sample ID:	27956
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:	Abdullah Al Jamal
Test Site:	Eurofins Product Service GmbH
Test Date:	2020-02-18
Lower Frequency (M1) [MHz]:	2440.525
Upper Frequency (M2) [MHz]:	2441.475
Lower Frequency (M3) [MHz]:	2441.530
Upper Frequency (M4) [MHz]:	2442.475
Lower center Frequency [MHz]:	2441.000
Upper center Frequency [MHz]:	2442.003
Hopping Frequency Separation [MHz]:	1.003



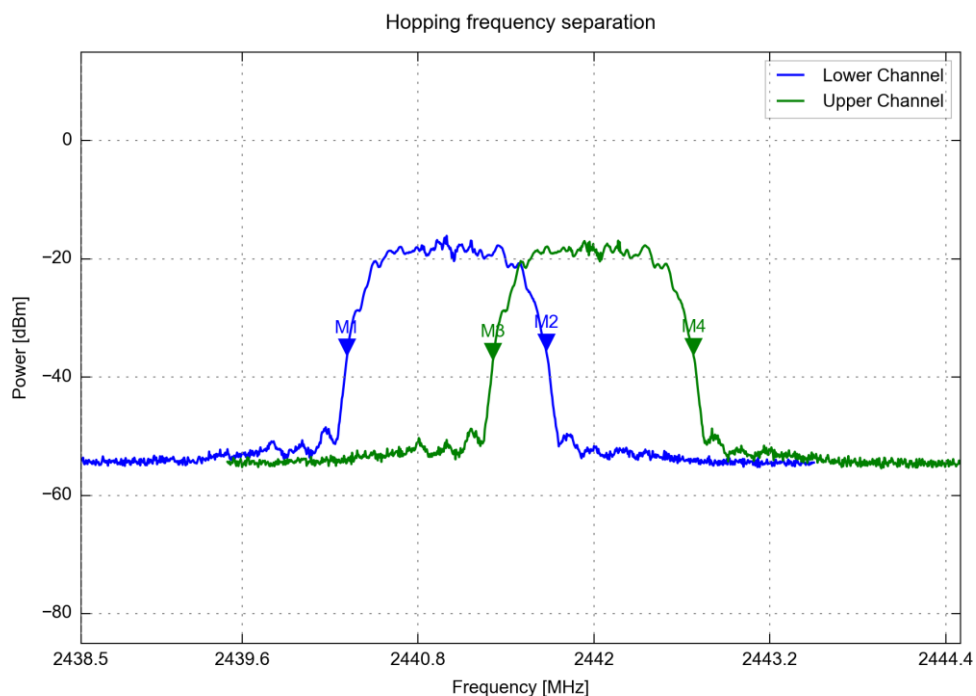
Hopping frequency separation

Project Number:	G0M-2001-8775
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+BT
Model:	L0740
Test Sample ID:	27956
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:	Abdullah Al Jamal
Test Site:	Eurofins Product Service GmbH
Test Date:	2020-02-18
Lower Frequency (M1) [MHz]:	2440.315
Upper Frequency (M2) [MHz]:	2441.675
Lower Frequency (M3) [MHz]:	2441.315
Upper Frequency (M4) [MHz]:	2442.675
Lower center Frequency [MHz]:	2440.995
Upper center Frequency [MHz]:	2441.995
Hopping Frequency Separation [MHz]:	1.000



Hopping frequency separation

Project Number:	G0M-2001-8775
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+BT
Model:	L0740
Test Sample ID:	27956
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:	Abdullah Al Jamal
Test Site:	Eurofins Product Service GmbH
Test Date:	2020-02-18
Lower Frequency (M1) [MHz]:	2440.315
Upper Frequency (M2) [MHz]:	2441.675
Lower Frequency (M3) [MHz]:	2441.310
Upper Frequency (M4) [MHz]:	2442.680
Lower center Frequency [MHz]:	2440.995
Upper center Frequency [MHz]:	2441.995
Hopping Frequency Separation [MHz]:	1.000



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

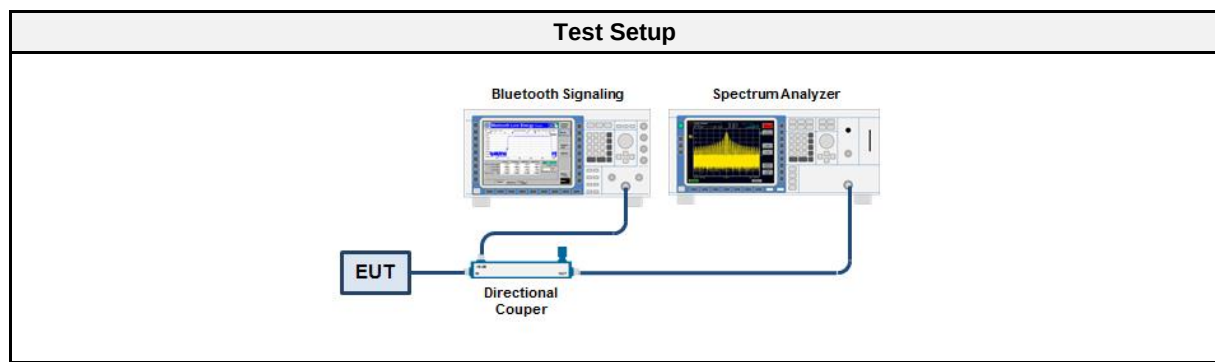
3.5.1 Information

Test Information	
Reference	FCC § 15.247(a)(1)(iii); ISED RSS-247, Issue 2 (section 5.1)
Measurement Method	ANSI C63.10 7.8.2
Operator	Abdullah Al Jamal
Date	2020-02-18

3.5.2 Limits

Limits
$\leq 0.4 \text{ s within } 0.4 \text{ s} \cdot \text{Number of hopping channels}$

3.5.3 Setup



3.5.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2019-07	2020-07

3.5.5 Procedure

Test Procedure
1. EUT set to test hopping mode (Communication tester is used if needed) 2. Analyzer span is set to zero span 3. Detector set to peak and max hold 4. RBW is set to 100 kHz and VBW to 300 kHz 5. The sweep time is set to capture one single dwell time 6. Trigger is set to video trigger 7. A marker is set to the start and end positions of the burst 8. The dwell time is determined from the marker difference 9. Another sweep is initiated without trigger and sweep time set to the observation time 10. The number of hops is counted 11. The total time of occupancy is calculated from the dwell time per hop multiplied by the number of hops

3.5.6 Results

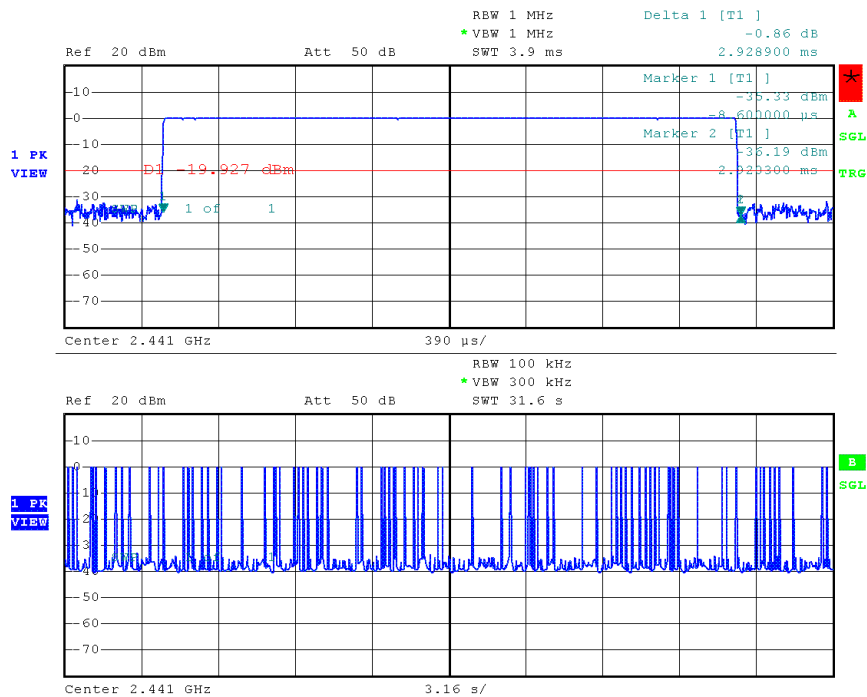
Test Results					
Observation Period [s]	Number of Hops	Dwell time per Hop [ms]	Time of occupancy [s]	Limit [s]	Margin [s]
31.6	11	2.929	0.032	0.4	-00.37

Test Report No.: G0M-2001-8775-TFC247BT-V01

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

Time of occupancy

Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Method: ANSI C63.10:2013 7.8.4
 Operational Mode: DH5, Hopping mode
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Dwell Time per Hop [ms]: 2.929
 Number of Hops: 11
 Time of occupancy [s]: 0.032



Date: 18.FEB.2020 16:55:50

3.6 Test Conditions and Results - Maximum peak conducted output power

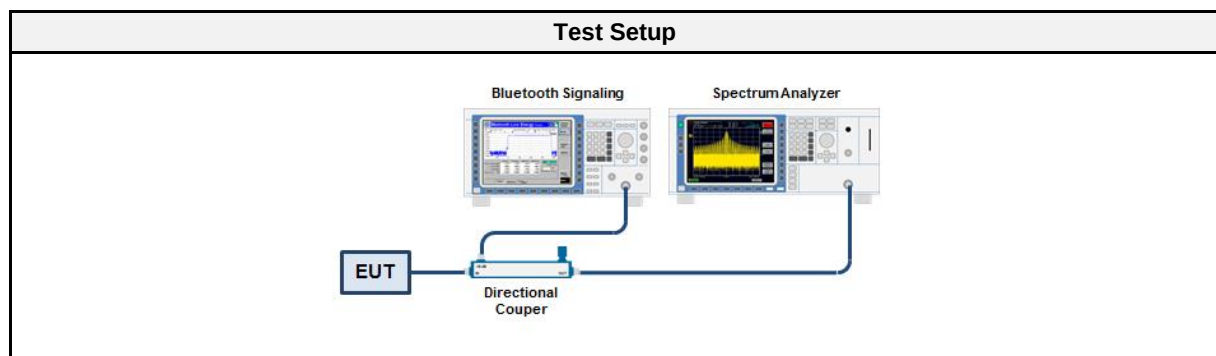
3.6.1 Information

Test Information	
Reference	FCC § 15.247(b)(1); ISED RSS-247, Issue 2 (section 5.4)
Measurement Method	ANSI C63.10 7.8.5
Operator	Abdullah Al Jamal
Date	2020-02-18

3.6.2 Limits

Limits	
Condition	Power
Number of hopping channels ≥ 75	1 W (30 dBm)
$75 > \text{Number of hopping channels} \geq 15$	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 Analyzer	R&S	FSP 30	EF00312	2019-07	2020-07

3.6.5 Procedure

Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Analyzer resolution bandwidth is set $\geq$ 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	-0.997	0.0008	1.0	PASS
2441	1.397	0.0014	1.0	PASS
2480	2.521	0.0018	1.0	PASS

Test Results - 2-DH5				
Channel [MHz]	Power [dBm]	Power [W]	Limit [W]	Verdict
2402	-2.396	0.0006	1.0	PASS
2441	-0.236	0.0009	1.0	PASS
2480	1.044	0.0013	1.0	PASS

Test Results - 3-DH5				
Channel [MHz]	Power [dBm]	Power [W]	Limit [W]	Verdict
2402	-1.828	0.0007	1.0	PASS
2441	0.260	0.0011	1.0	PASS
2480	1.646	0.0015	1.0	PASS

3.7 Test Conditions and Results - Band-edge compliance

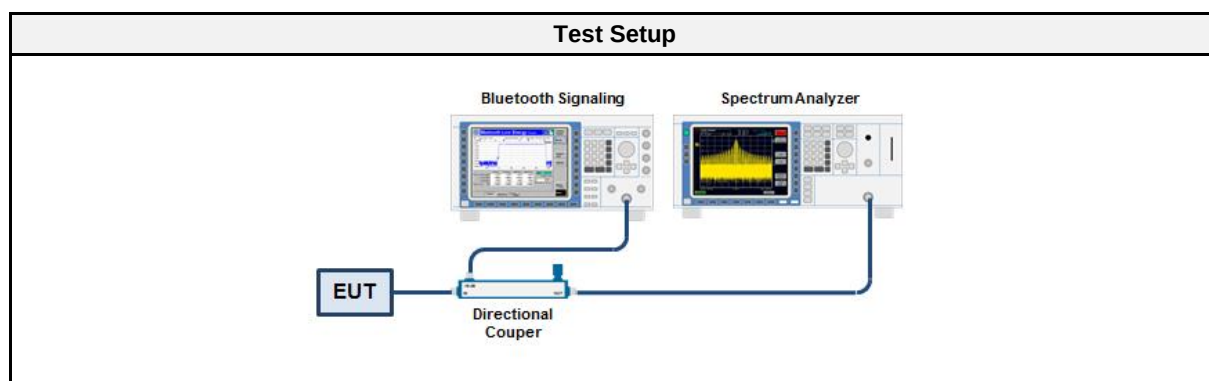
3.7.1 Information

Test Information	
Reference	FCC § 15.247(d); ISED RSS-247, Issue 2 (section 5.5)
Measurement Method	ANSI C63.10 6.10
Operator	Abdullah Al Jamal
Date	2020-02-18

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 Analyzer	R&S	FSP 30	EF00312	2019-07	2020-07

3.7.5 Procedure

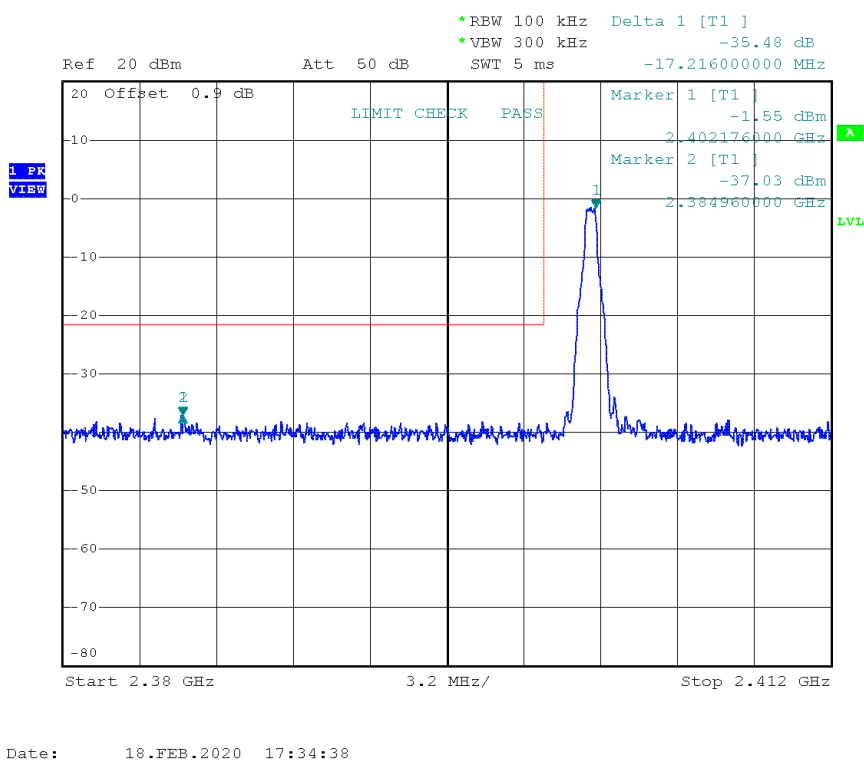
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels within frequency band and outside frequency band 5. Band edge 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	-35.48	-20	PASS
DH5 single	2480	-39.77	-20	PASS
DH5 hopping	2402	-35.53	-20	PASS
DH5 hopping	2480	-37.84	-20	PASS
2-DH5 single	2402	-43.19	-20	PASS
2-DH5 single	2480	-35.82	-20	PASS
2-DH5 hopping	2402	-43.82	-20	PASS
2-DH5 hopping	2480	-36.55	-20	PASS
3-DH5 single	2402	-43.56	-20	PASS
3-DH5 single	2480	-35.62	-20	PASS
3-DH5 hopping	2402	-34.19	-20	PASS
3-DH5 hopping	2480	-35.79	-20	PASS

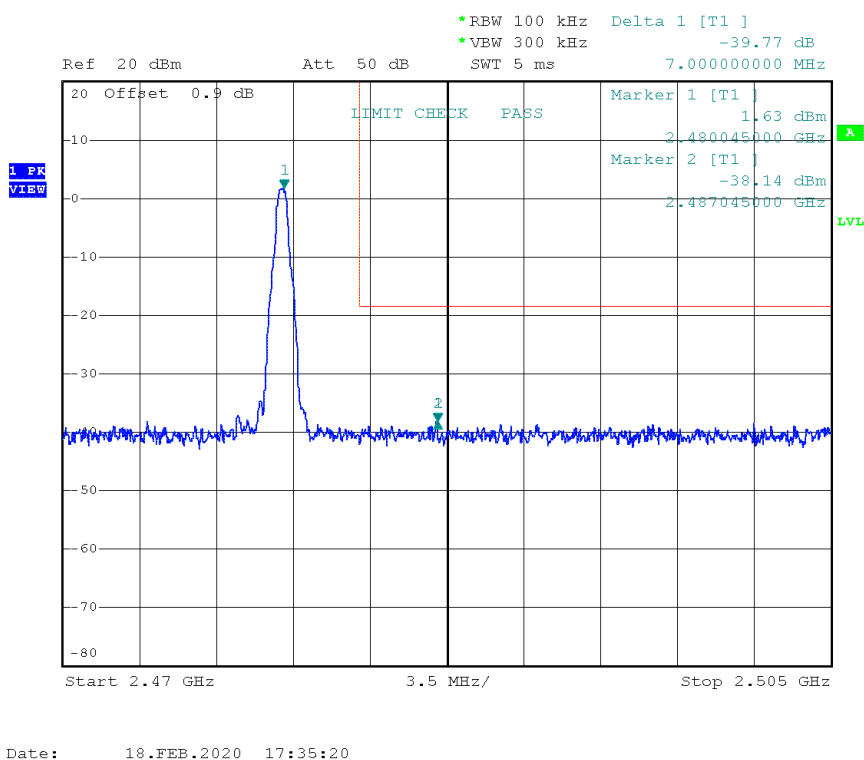
Emissions in nonrestricted frequency bands at the Band-edge

Project Number: GOM-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 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: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Band-edge: Lower
 In-band Frequency [MHz]: 2402.176
 Max. in-band Level [dBm/100 kHz]: -1.553
 Out-of-band Frequency [MHz]: 2384.96
 Max. out-of-band Level [dBm/100 kHz]: -37.028
 Attenuation [dB]: -35.48



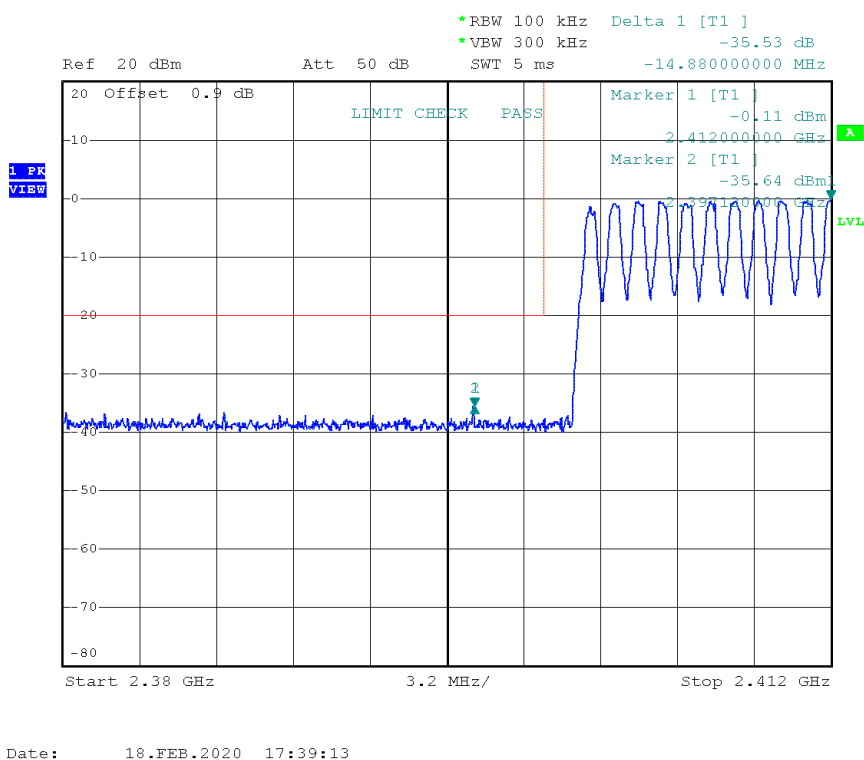
Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2001-8775
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+BT
Model:	L0740
Test Sample ID:	27956
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:	Abdullah Al Jamal
Test Site:	Eurofins Product Service GmbH
Test Date:	2020-02-18
Band-edge	Upper
In-band Frequency [MHz]:	2480.045
Max. in-band Level [dBm/100 kHz]:	1.634
Out-of-band Frequency [MHz]:	2487.045
Max. out-of-band Level [dBm/100 kHz]:	-38.14
Attenuation [dB]:	-39.77



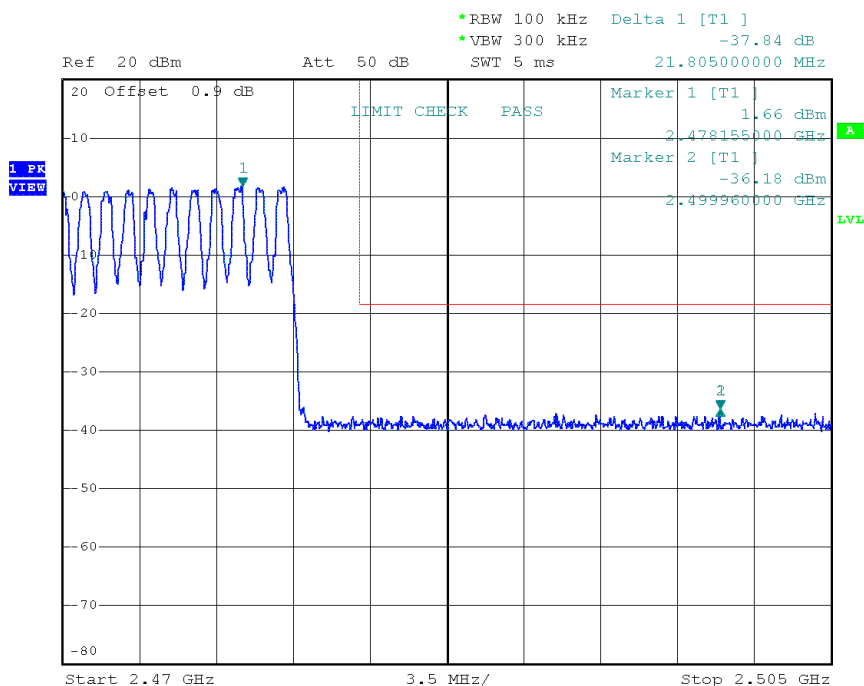
Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2001-8775
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+BT
Model:	L0740
Test Sample ID:	27956
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:	Abdullah Al Jamal
Test Site:	Eurofins Product Service GmbH
Test Date:	2020-02-18
Band-edge	Lower
In-band Frequency [MHz]:	2412.0
Max. in-band Level [dBm/100 kHz]:	-0.105
Out-of-band Frequency [MHz]:	2397.12
Max. out-of-band Level [dBm/100 kHz]:	-35.635
Attenuation [dB]:	-35.53



Emissions in nonrestricted frequency bands at the Band-edge

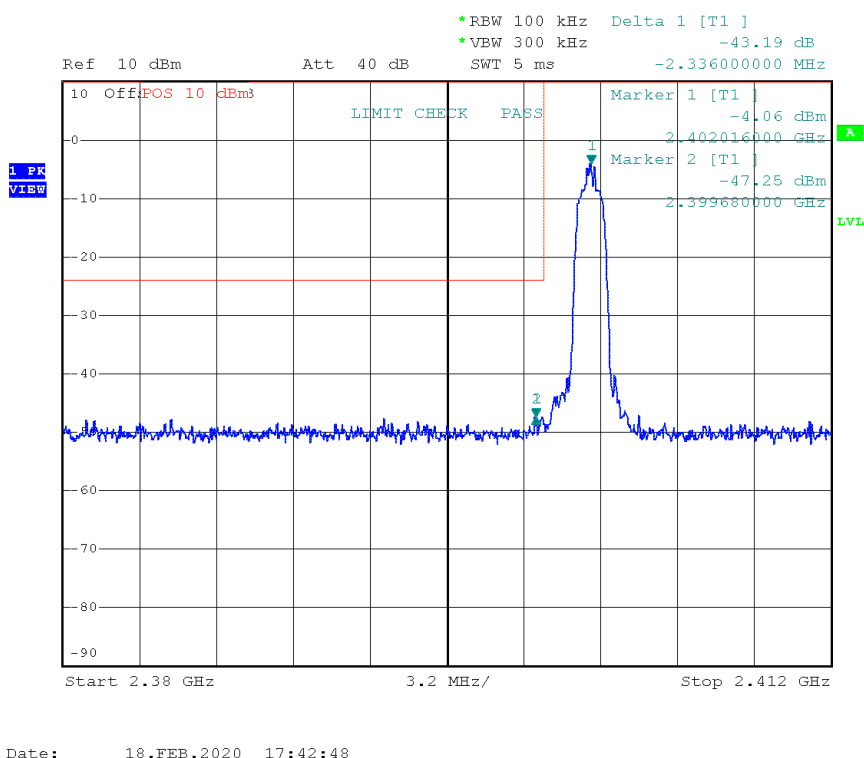
Project Number: GOM-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operational Mode: DH5, Hopping
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Band-edge: Upper
 In-band Frequency [MHz]: 2478.155
 Max. in-band Level [dBm/100 kHz]: 1.661
 Out-of-band Frequency [MHz]: 2499.96
 Max. out-of-band Level [dBm/100 kHz]: -36.181
 Attenuation [dB]: -37.84



Date: 18.FEB.2020 17:41:48

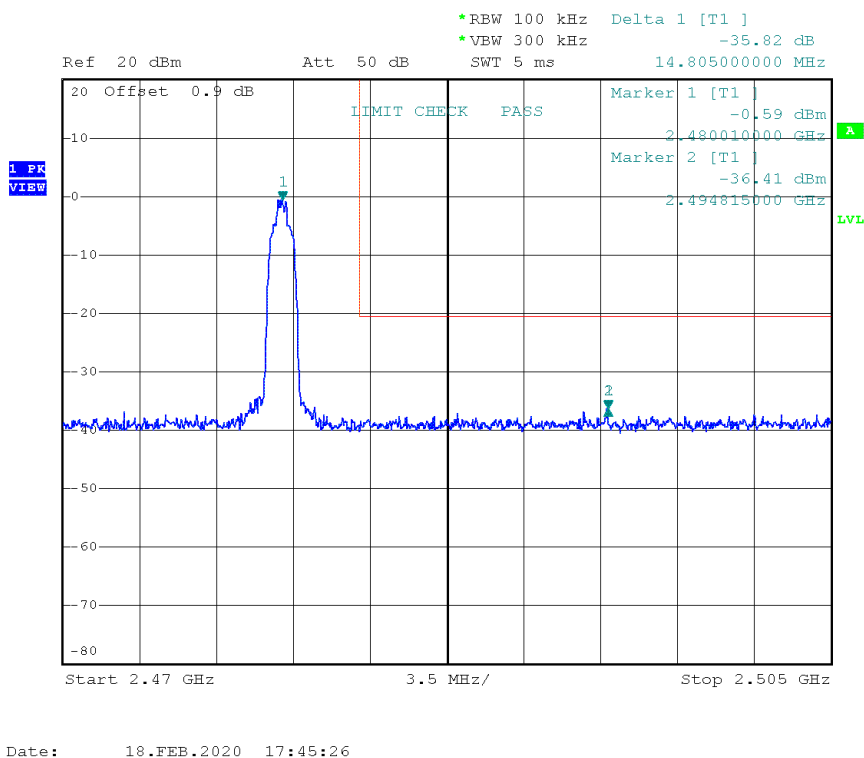
Emissions in nonrestricted frequency bands at the Band-edge

Project Number: GOM-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 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: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Band-edge: Lower
 In-band Frequency [MHz]: 2402.016
 Max. in-band Level [dBm/100 kHz]: -4.055
 Out-of-band Frequency [MHz]: 2399.68
 Max. out-of-band Level [dBm/100 kHz]: -47.246
 Attenuation [dB]: -43.19



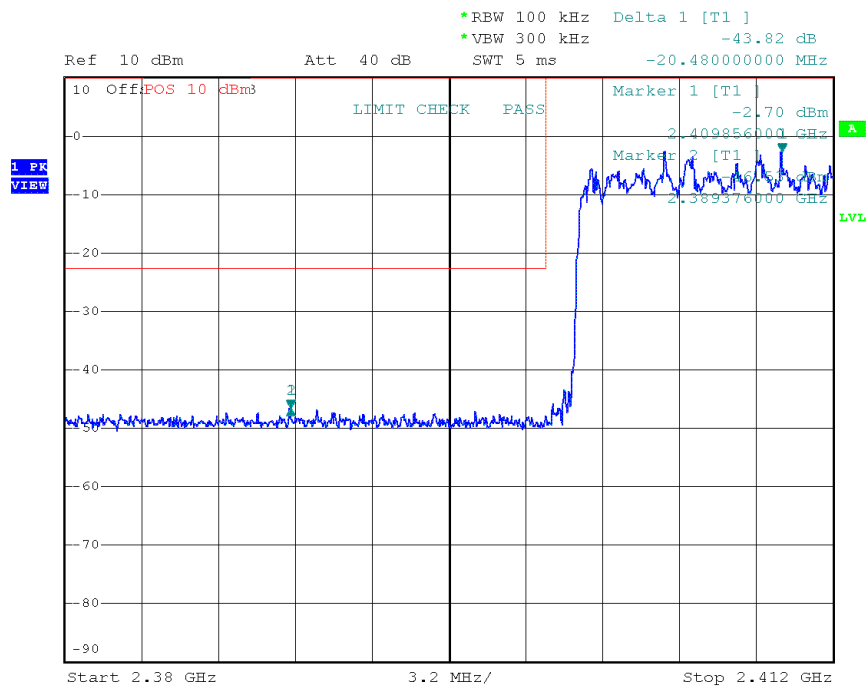
Emissions in nonrestricted frequency bands at the Band-edge

Project Number: GOM-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 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: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Band-edge: Upper
 In-band Frequency [MHz]: 2480.01
 Max. in-band Level [dBm/100 kHz]: -0.588
 Out-of-band Frequency [MHz]: 2494.815
 Max. out-of-band Level [dBm/100 kHz]: -36.407
 Attenuation [dB]: -35.82



Emissions in nonrestricted frequency bands at the Band-edge

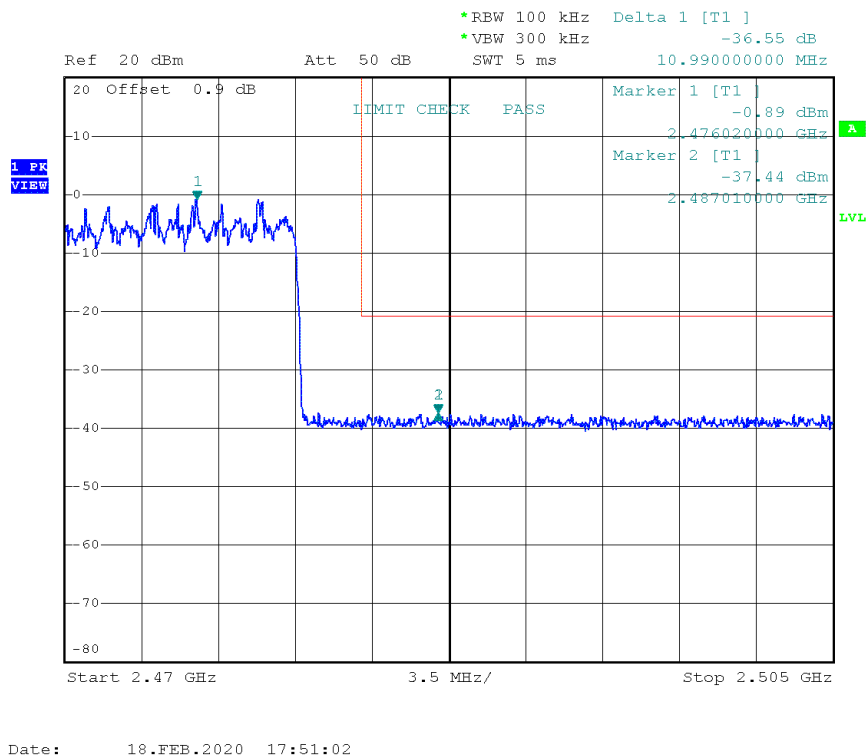
Project Number: GOM-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operational Mode: 2-DH5, Hopping
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Band-edge: Lower
 In-band Frequency [MHz]: 2409.856
 Max. in-band Level [dBm/100 kHz]: -2.703
 Out-of-band Frequency [MHz]: 2389.376
 Max. out-of-band Level [dBm/100 kHz]: -46.526
 Attenuation [dB]: -43.82



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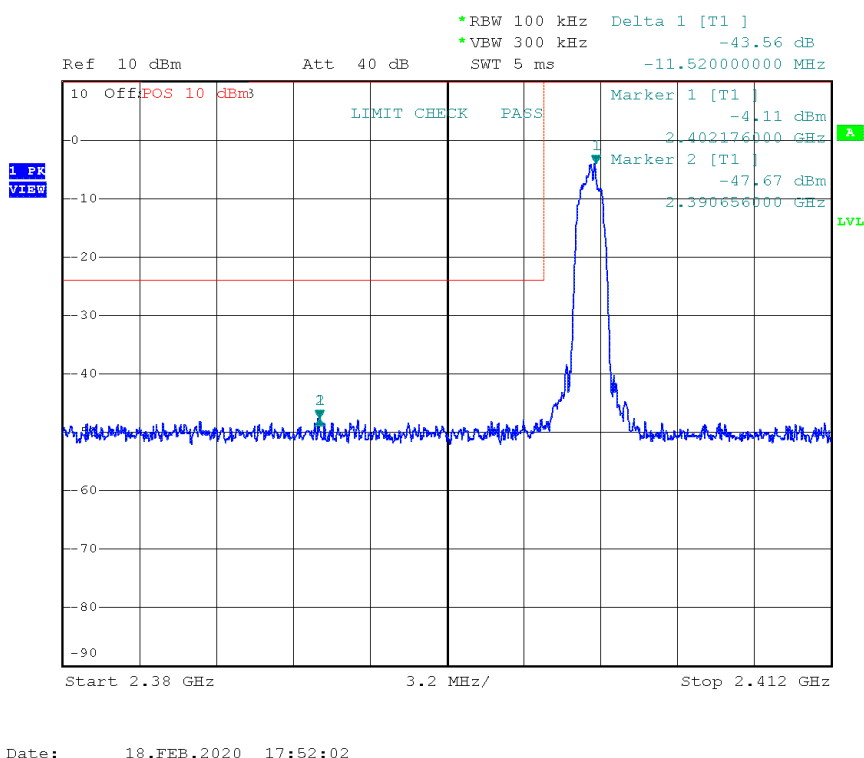
Emissions in nonrestricted frequency bands at the Band-edge

Project Number: GOM-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 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: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Band-edge: Upper
 In-band Frequency [MHz]: 2476.02
 Max. in-band Level [dBm/100 kHz]: -0.894
 Out-of-band Frequency [MHz]: 2487.01
 Max. out-of-band Level [dBm/100 kHz]: -37.444
 Attenuation [dB]: -36.55



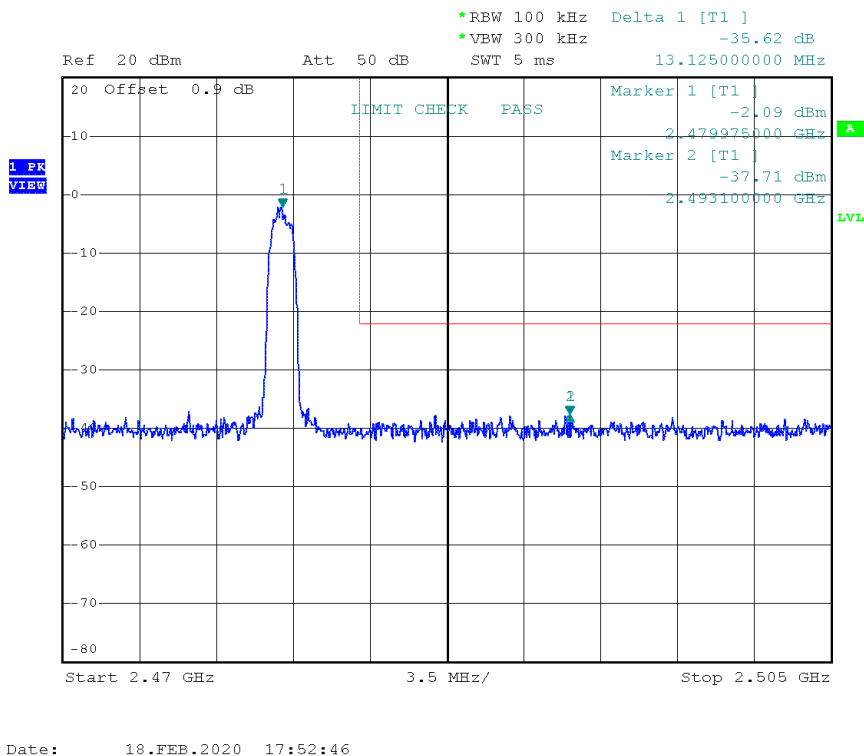
Emissions in nonrestricted frequency bands at the Band-edge

Project Number: GOM-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 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: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Band-edge: Lower
 In-band Frequency [MHz]: 2402.176
 Max. in-band Level [dBm/100 kHz]: -4.109
 Out-of-band Frequency [MHz]: 2390.656
 Max. out-of-band Level [dBm/100 kHz]: -47.667
 Attenuation [dB]: -43.56



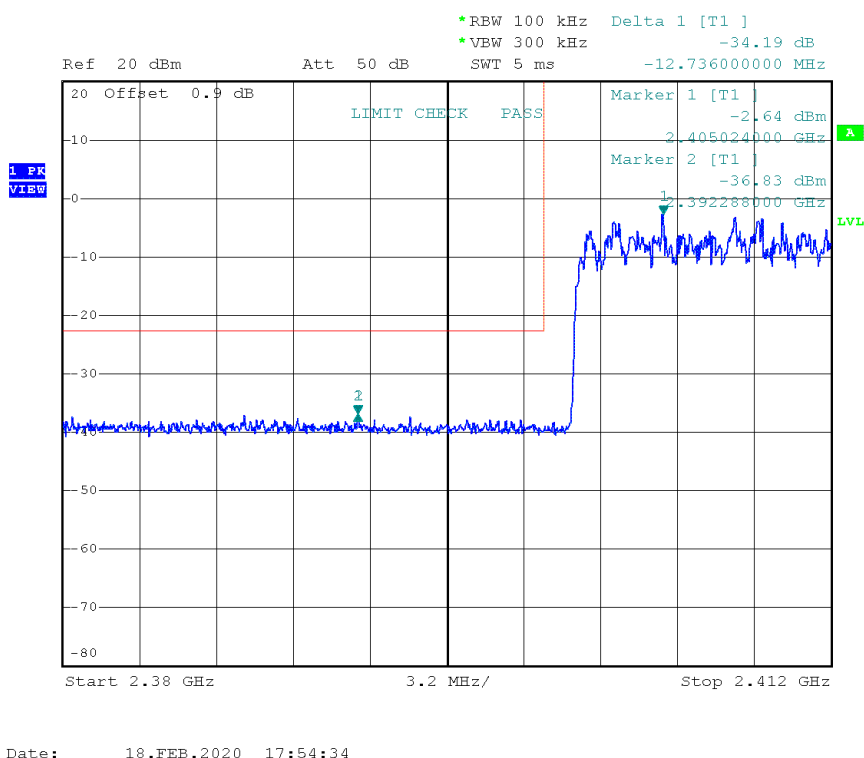
Emissions in nonrestricted frequency bands at the Band-edge

Project Number: GOM-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 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: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Band-edge: Upper
 In-band Frequency [MHz]: 2479.975
 Max. in-band Level [dBm/100 kHz]: -2.093
 Out-of-band Frequency [MHz]: 2493.1
 Max. out-of-band Level [dBm/100 kHz]: -37.715
 Attenuation [dB]: -35.62



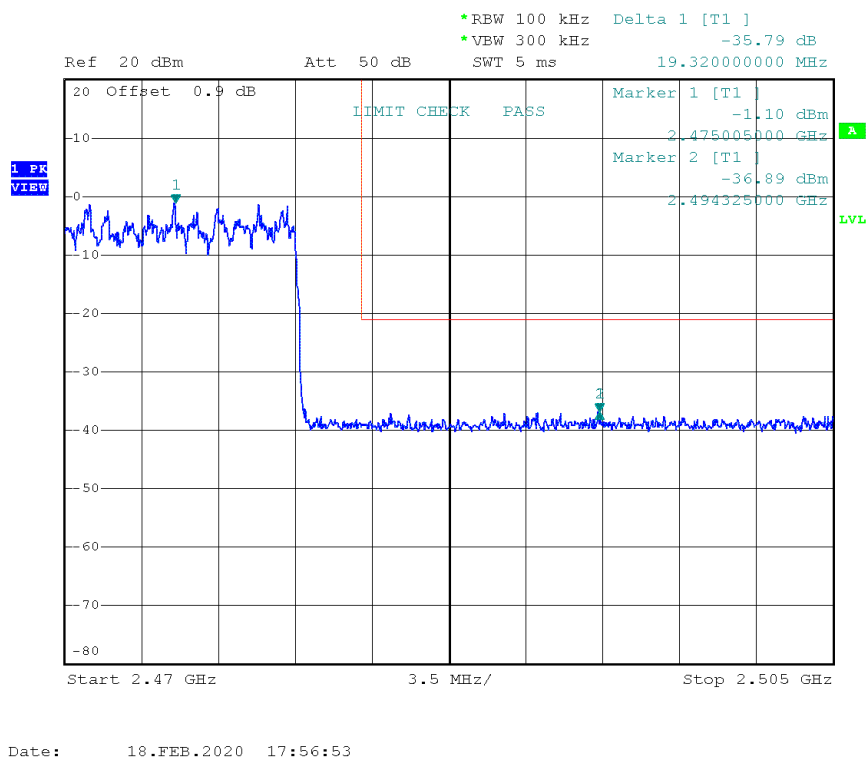
Emissions in nonrestricted frequency bands at the Band-edge

Project Number: GOM-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 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: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Band-edge: Lower
 In-band Frequency [MHz]: 2405.024
 Max. in-band Level [dBm/100 kHz]: -2.64
 Out-of-band Frequency [MHz]: 2392.288
 Max. out-of-band Level [dBm/100 kHz]: -36.832
 Attenuation [dB]: -34.19



Emissions in nonrestricted frequency bands at the Band-edge

Project Number: GOM-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 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: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Band-edge: Upper
 In-band Frequency [MHz]: 2475.005
 Max. in-band Level [dBm/100 kHz]: -1.104
 Out-of-band Frequency [MHz]: 2494.325
 Max. out-of-band Level [dBm/100 kHz]: -36.892
 Attenuation [dB]: -35.79



3.8 Test Conditions and Results - Conducted spurious emissions

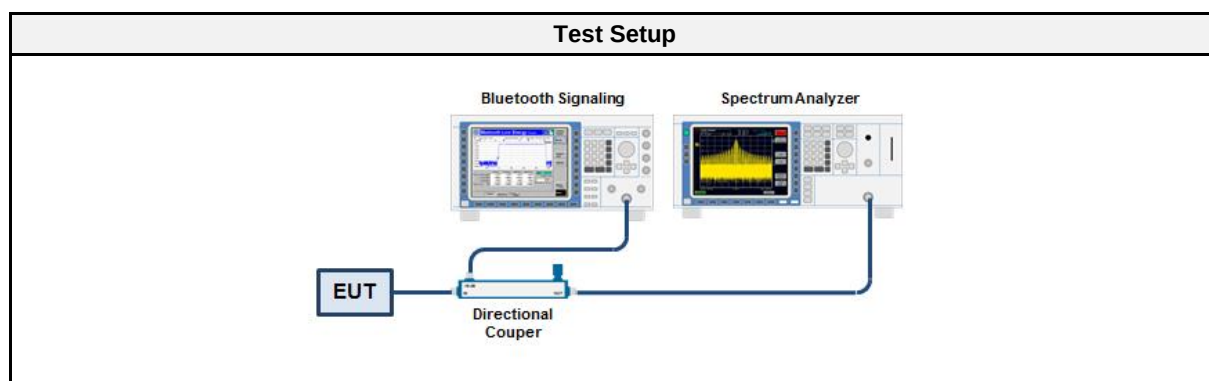
3.8.1 Information

Test Information	
Reference	FCC § 15.247(d); ISED RSS-247, Issue 2 (section 5.5)
Measurement Method	ANSI C63.10 6.10
Operator	Abdullah Al Jamal
Date	2020-02-18

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 Analyzer	R&S	FSP 30	EF00312	2019-07	2020-07

3.8.5 Procedure

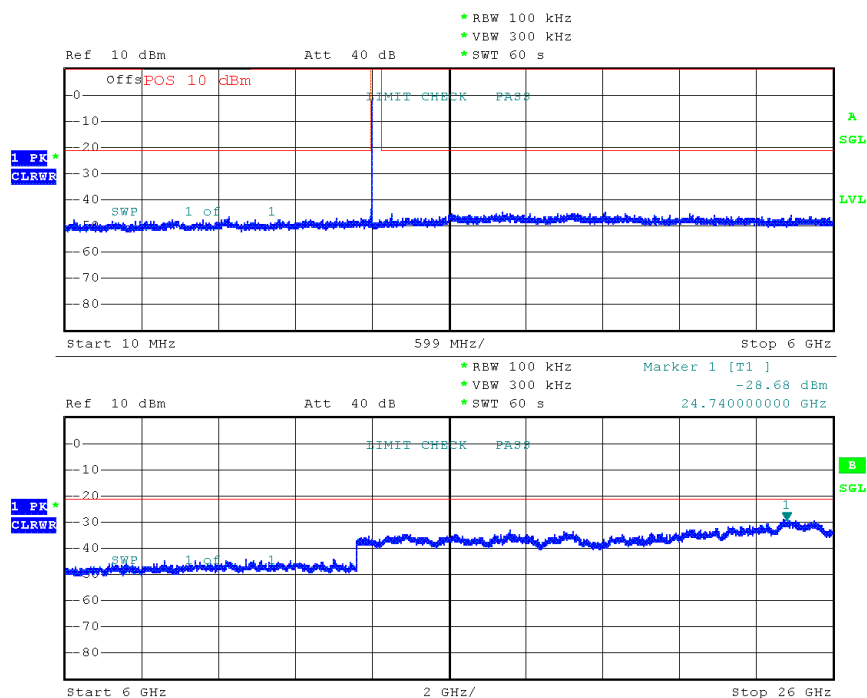
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels within frequency band and outside frequency band 5. Band edge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

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

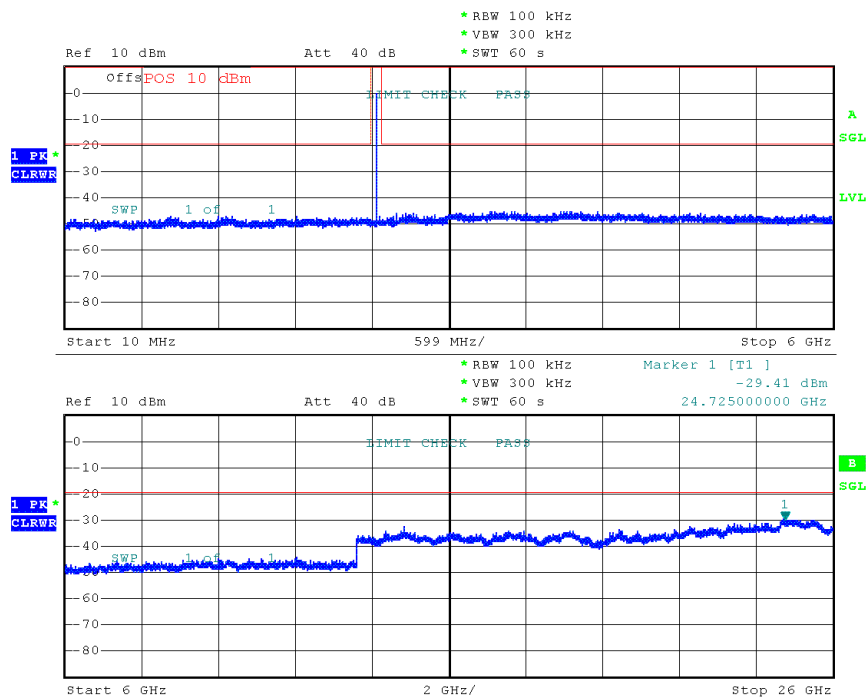
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Max. in-band Frequency [MHz]: 2402.2
 Max. in-band Level [dBm/100 kHz]: -1.4
 Out-of-band Limit [dBm/100 kHz]: -21.4



Date: 18.FEB.2020 18:07:21

Conducted Spurious Emissions

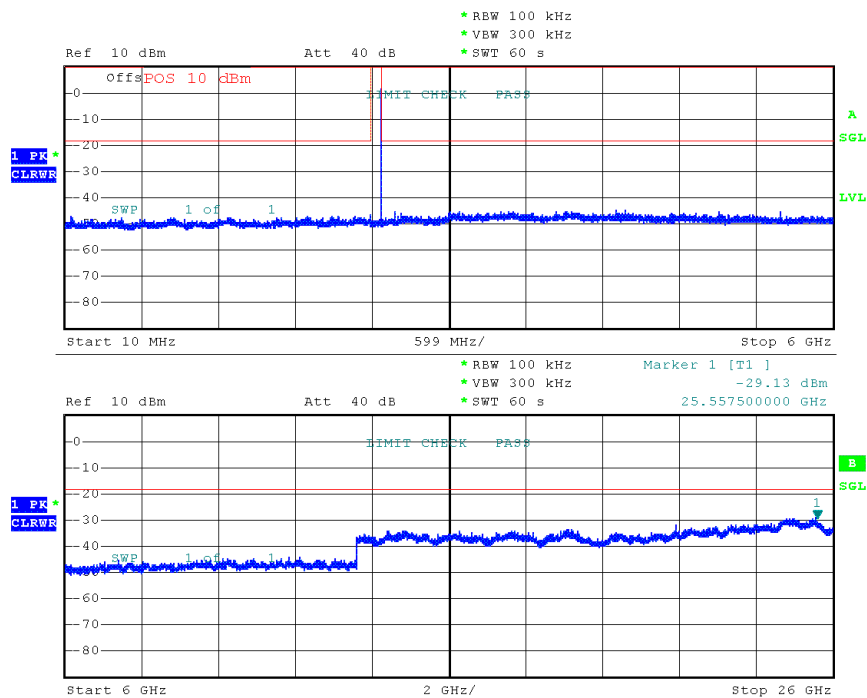
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: DH5, Channel: 39, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Max. in-band Frequency [MHz]: 2441.0
 Max. in-band Level [dBm/100 kHz]: 0.6
 Out-of-band Limit [dBm/100 kHz]: -19.4



Date: 18.FEB.2020 18:10:58

Conducted Spurious Emissions

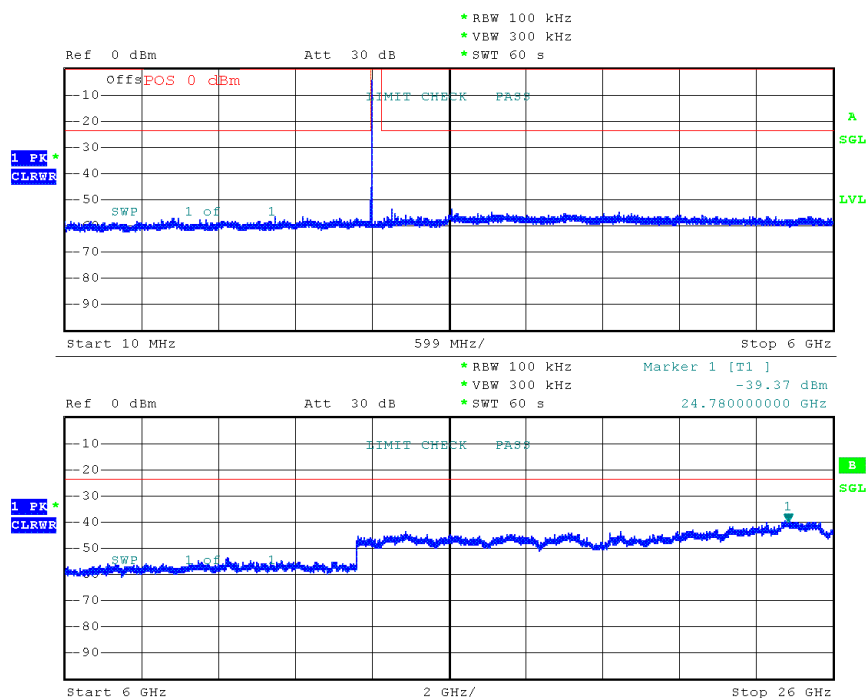
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Max. in-band Frequency [MHz]: 2480.0
 Max. in-band Level [dBm/100 kHz]: 1.9
 Out-of-band Limit [dBm/100 kHz]: -18.1



Date: 18.FEB.2020 18:13:55

Conducted Spurious Emissions

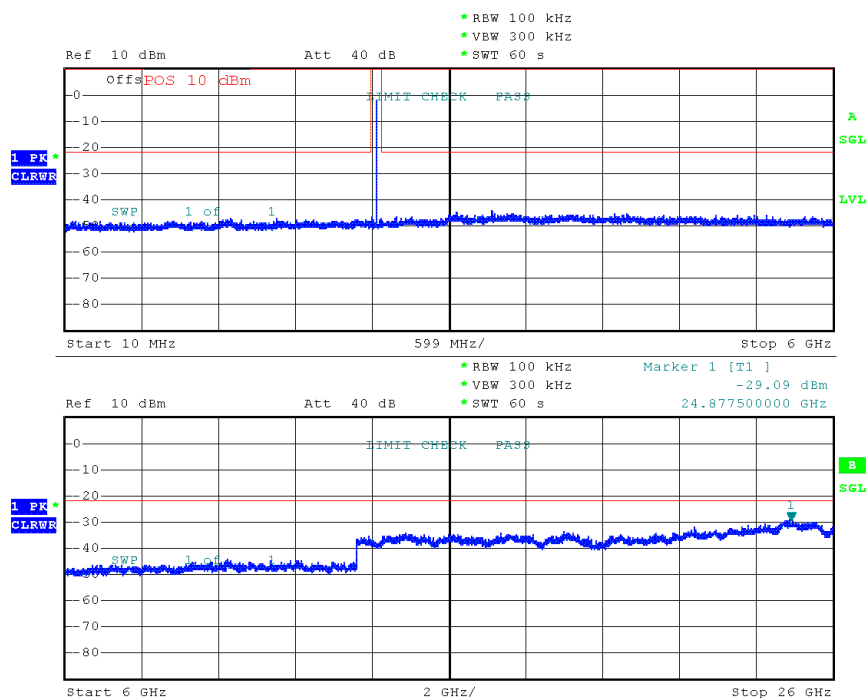
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: 2-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Max. in-band Frequency [MHz]: 2402.0
 Max. in-band Level [dBm/100 kHz]: -3.9
 Out-of-band Limit [dBm/100 kHz]: -23.9



Date: 18.FEB.2020 18:16:54

Conducted Spurious Emissions

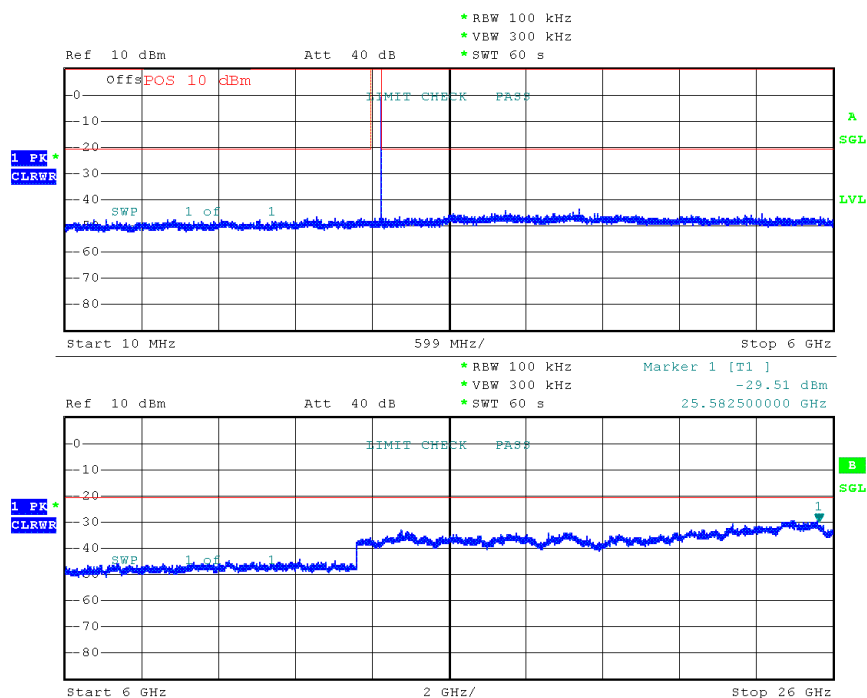
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: 2-DH5, Channel: 39, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Max. in-band Frequency [MHz]: 2440.8
 Max. in-band Level [dBm/100 kHz]: -2.0
 Out-of-band Limit [dBm/100 kHz]: -22.0



Date: 18.FEB.2020 18:19:49

Conducted Spurious Emissions

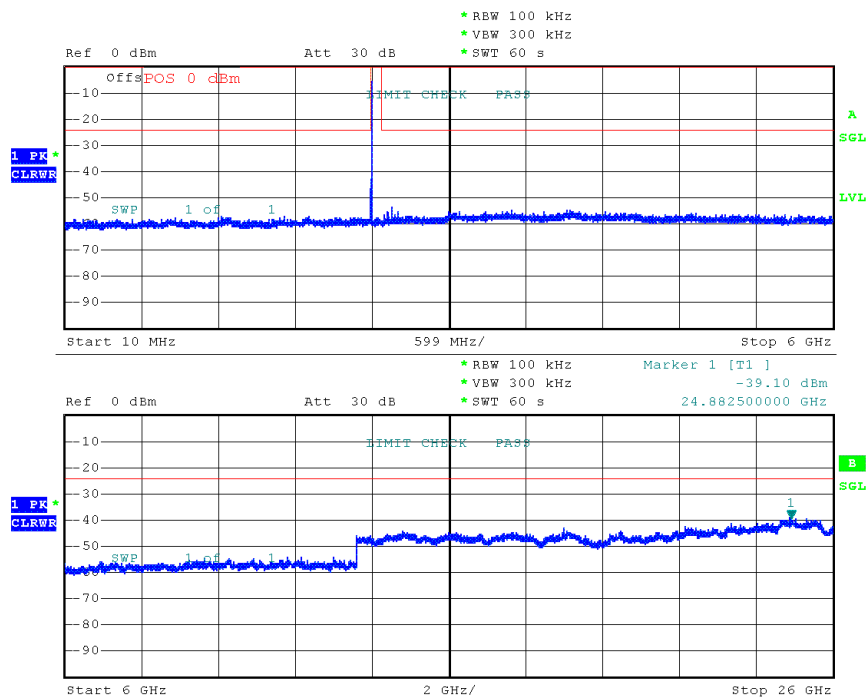
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: 2-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Max. in-band Frequency [MHz]: 2480.2
 Max. in-band Level [dBm/100 kHz]: -0.9
 Out-of-band Limit [dBm/100 kHz]: -20.9



Date: 18.FEB.2020 18:23:52

Conducted Spurious Emissions

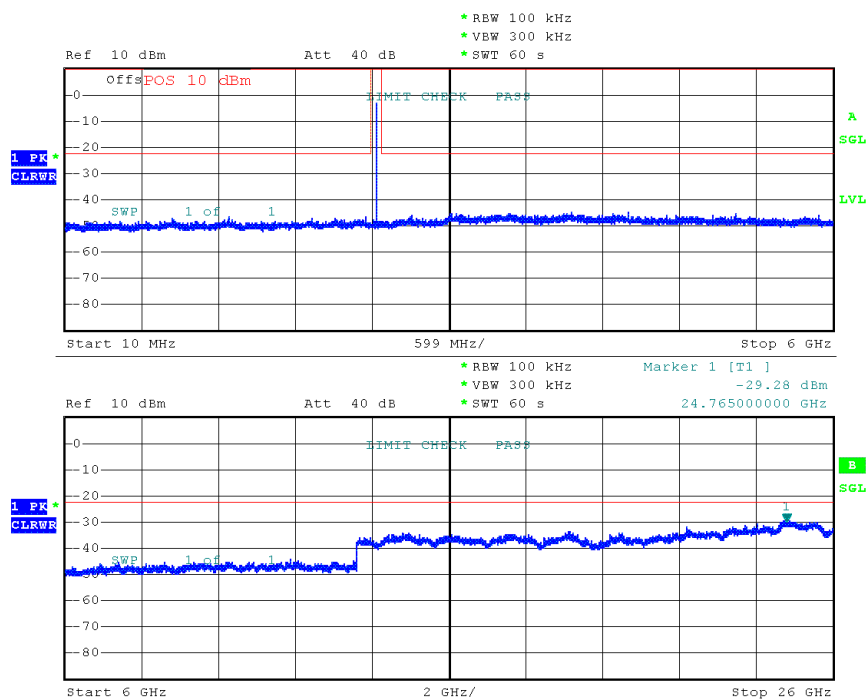
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: 3-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Max. in-band Frequency [MHz]: 2402.0
 Max. in-band Level [dBm/100 kHz]: -4.0
 Out-of-band Limit [dBm/100 kHz]: -24.0



Date: 18.FEB.2020 18:28:30

Conducted Spurious Emissions

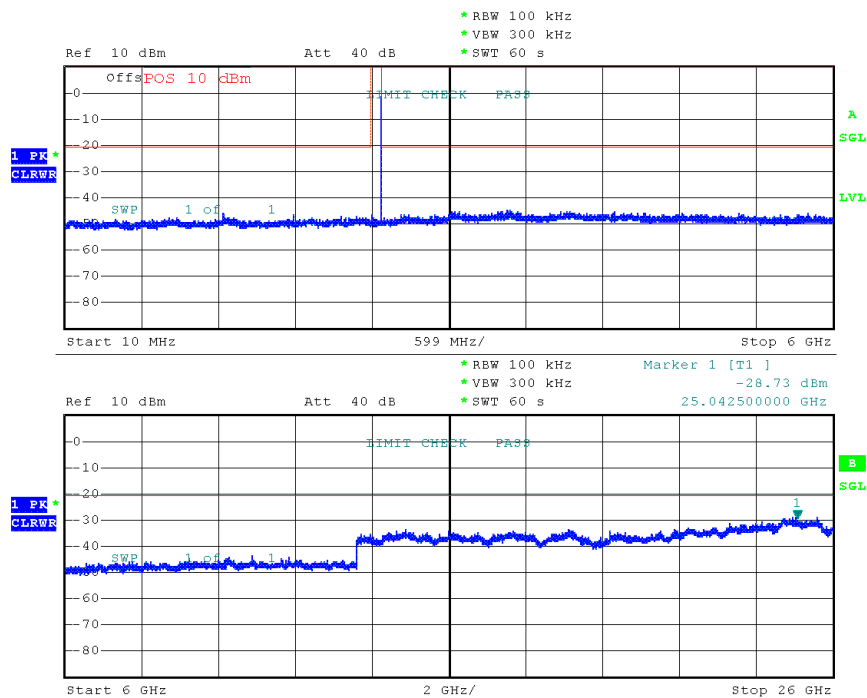
Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: 3-DH5, Channel: 39, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Max. in-band Frequency [MHz]: 2441.0
 Max. in-band Level [dBm/100 kHz]: -2.5
 Out-of-band Limit [dBm/100 kHz]: -22.5



Date: 18.FEB.2020 18:31:25

Conducted Spurious Emissions

Project Number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Sample ID: 27956
 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: Abdullah Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2020-02-18
 Max. in-band Frequency [MHz]: 2480.0
 Max. in-band Level [dBm/100 kHz]: -0.6
 Out-of-band Limit [dBm/100 kHz]: -20.6



Date: 18.FEB.2020 18:34:28

3.9 Test Conditions and Results - Transmitter radiated emissions

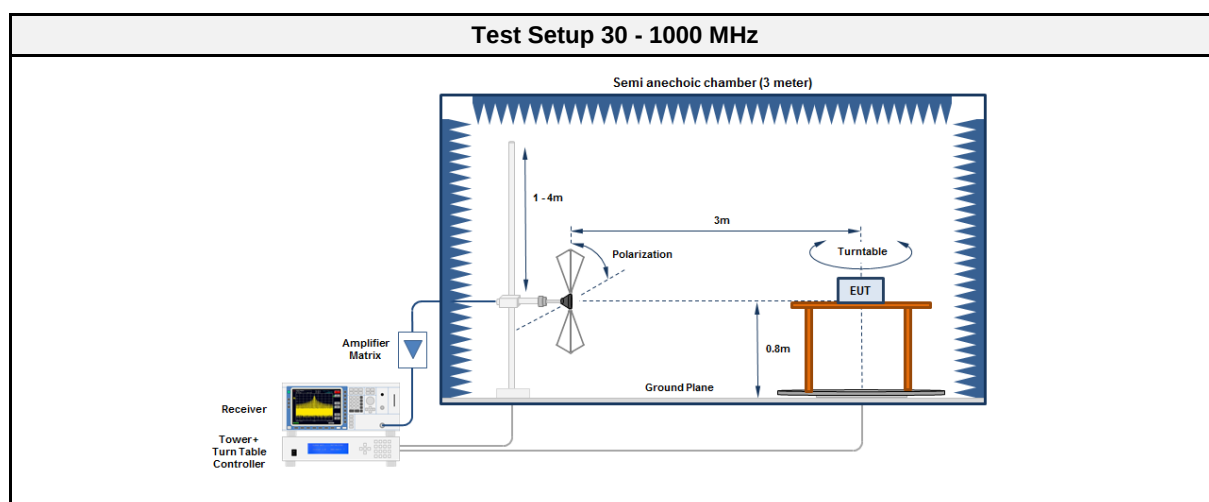
3.9.1 Information

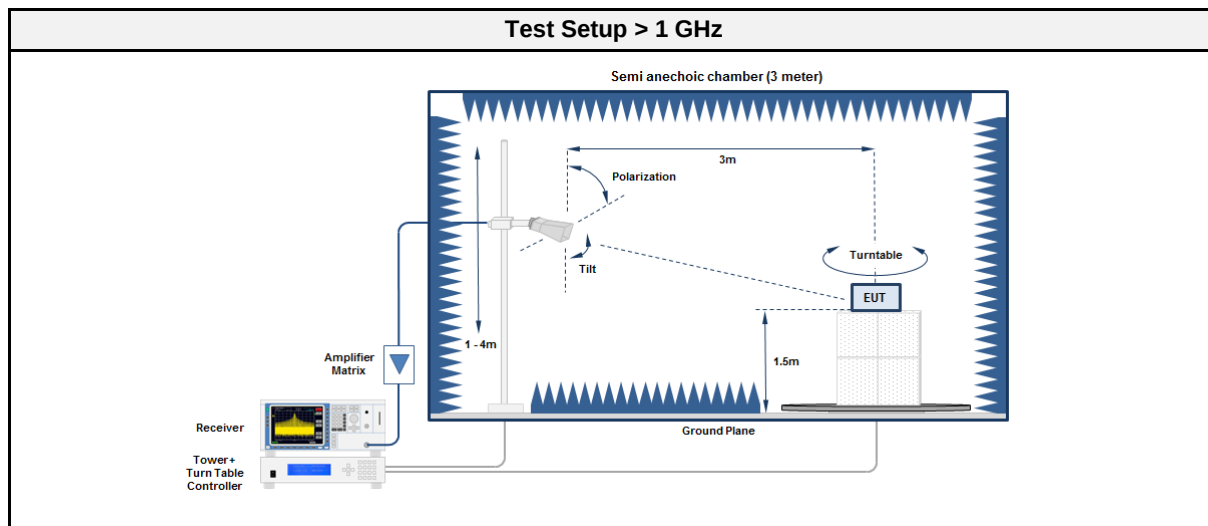
Test Information	
Reference	FCC § 15.247(d); FCC § 15.209; ISSED RSS-Gen, Issue 5 (section 6.13)
Measurement Method	ANSI C63.10 6.4, 6.5, 6.6
Operator	Abdullah Al Jamal
Date	2020-02-19
Measured mode	Mode DH5 determined as worst-case Tx scenario (radiated measurements) and reported.
Additional information	Measurement plots not listed in the test report contain plots with a measured noise floor only.

3.9.2 Limits

Limits			
Frequency [MHz]	Detector	Field strength [$\mu\text{V}/\text{m}$]	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	2016.1.10

Test Equipment 30 - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2018-07	2021-07
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2019-09	2020-09
Antenna	R&S	VULB 9162	EF00978	2019-10	2022-10

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2018-07	2021-07
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2019-09	2020-09
Antenna	Schwarzbeck	BBHA 9120D	EF00018	2019-10	2022-10
Antenna	Amplifier Research	AT4560	EF01152	2018-10	2020-10

3.9.5 Procedure

Test Procedure 30 - 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						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
2402	No significant emission detected.					
2441						
2480						

3.10 Test Conditions and Results - Receiver radiated emissions

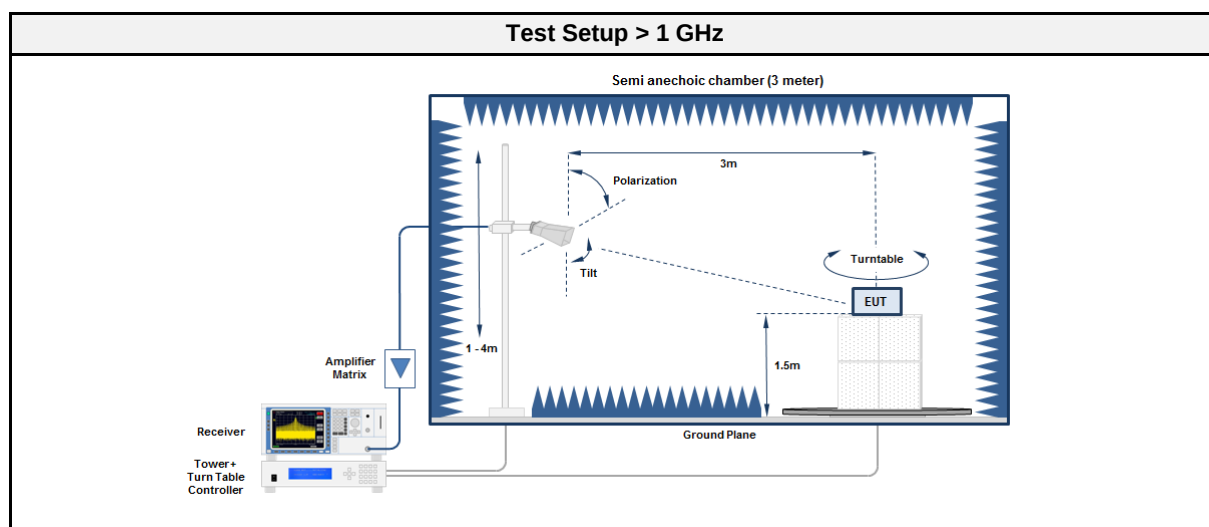
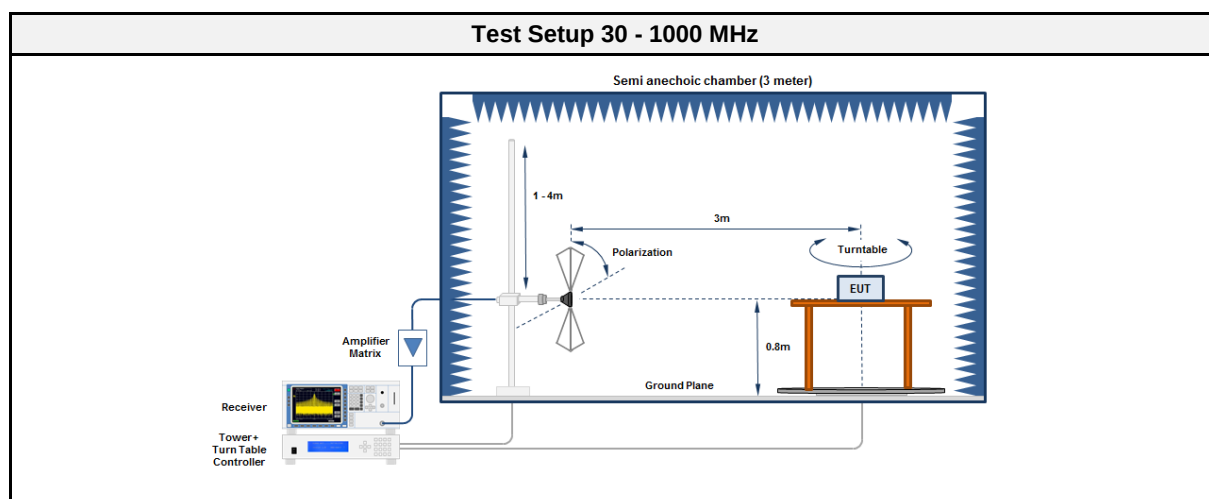
3.10.1 Information

Test Information	
Reference	ISED RSS-247, Issue 2 (section 3.1)
Measurement Method	ANSI C63.10 6.5, 6.6
Operator	Abdullah Al Jamal
Date	2020-02-19

3.10.2 Limits

Limits			
Frequency [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	2016.1.10

Test Equipment 30 - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2018-07	2021-07
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2019-09	2020-09
Antenna	R&S	VULB 9162	EF00978	2019-10	2022-10

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2018-07	2021-07
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2019-09	2020-09
Antenna	Schwarzbeck	BBHA 9120D	EF00018	2019-10	2022-10

3.10.5 Procedure

Test Procedure 30 - 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	

3.10.6 Results

Test Results						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
Receive	14620	46.90	pk	hor	53.98	-07.08

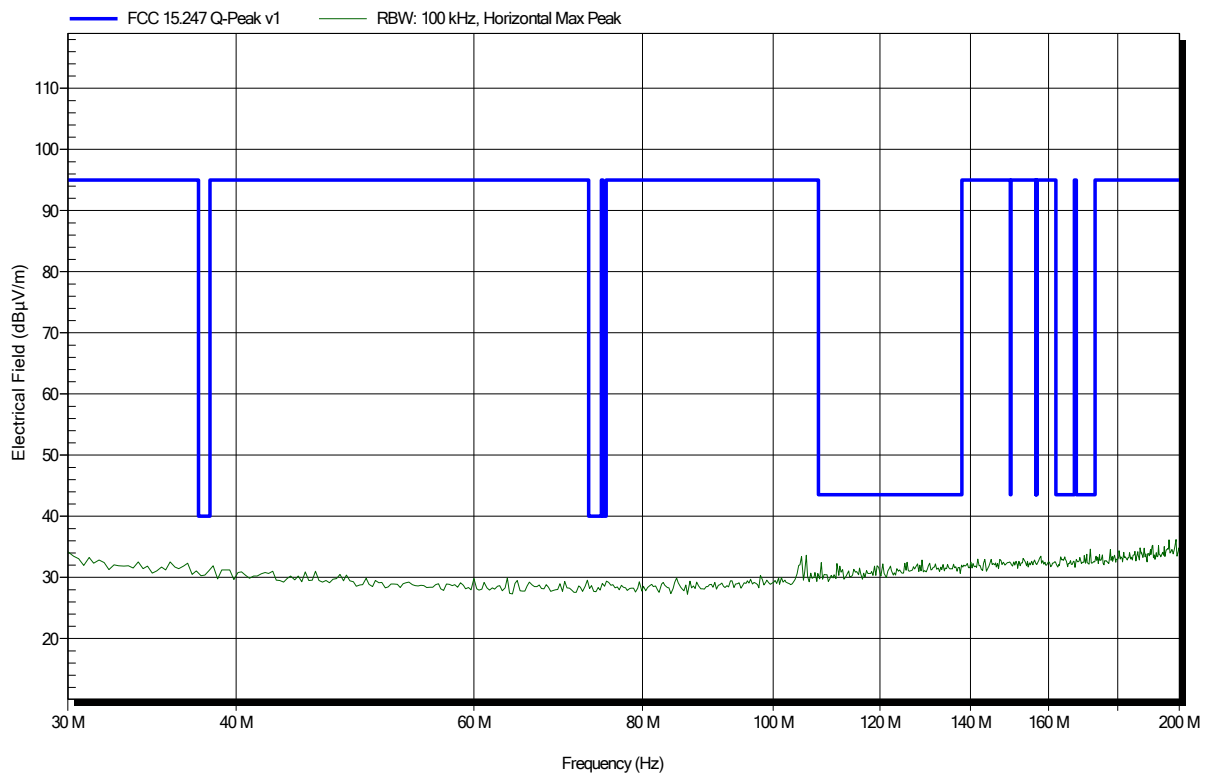
ANNEX A Transmitter spurious emissions

Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Rohde & Schwarz HK 116, Horizontal
Measurement distance: 3 m
Mode: TX; 2402 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

Index 50

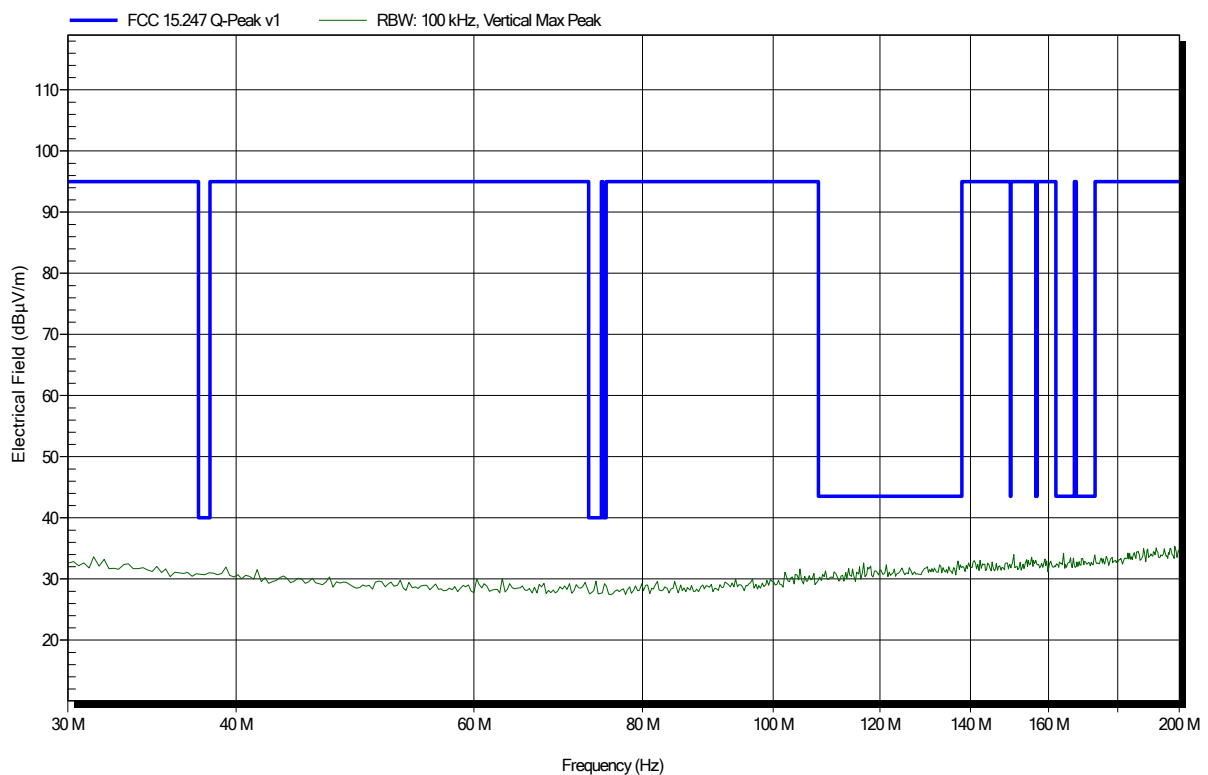


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Rohde & Schwarz HK 116, Vertical
Measurement distance: 3 m
Mode: TX; 2402 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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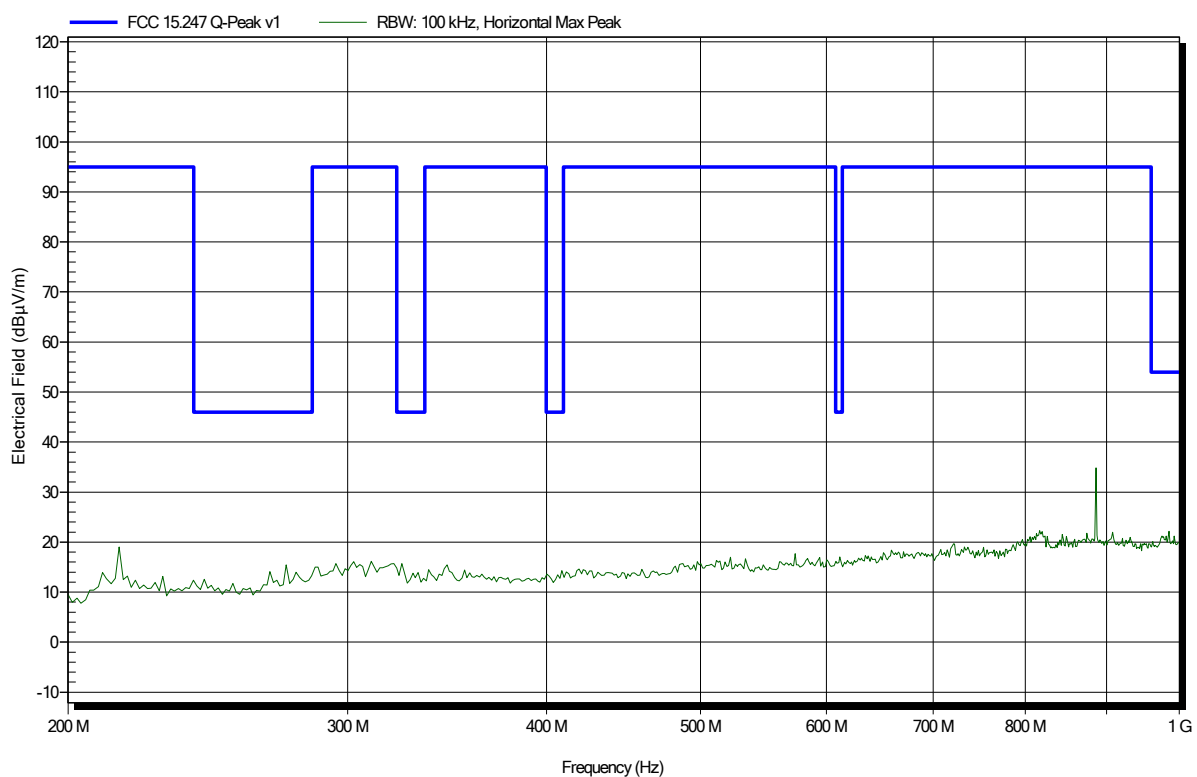


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Rohde & Schwarz HL 223, Horizontal
Measurement distance: 3 m
Mode: TX; 2402 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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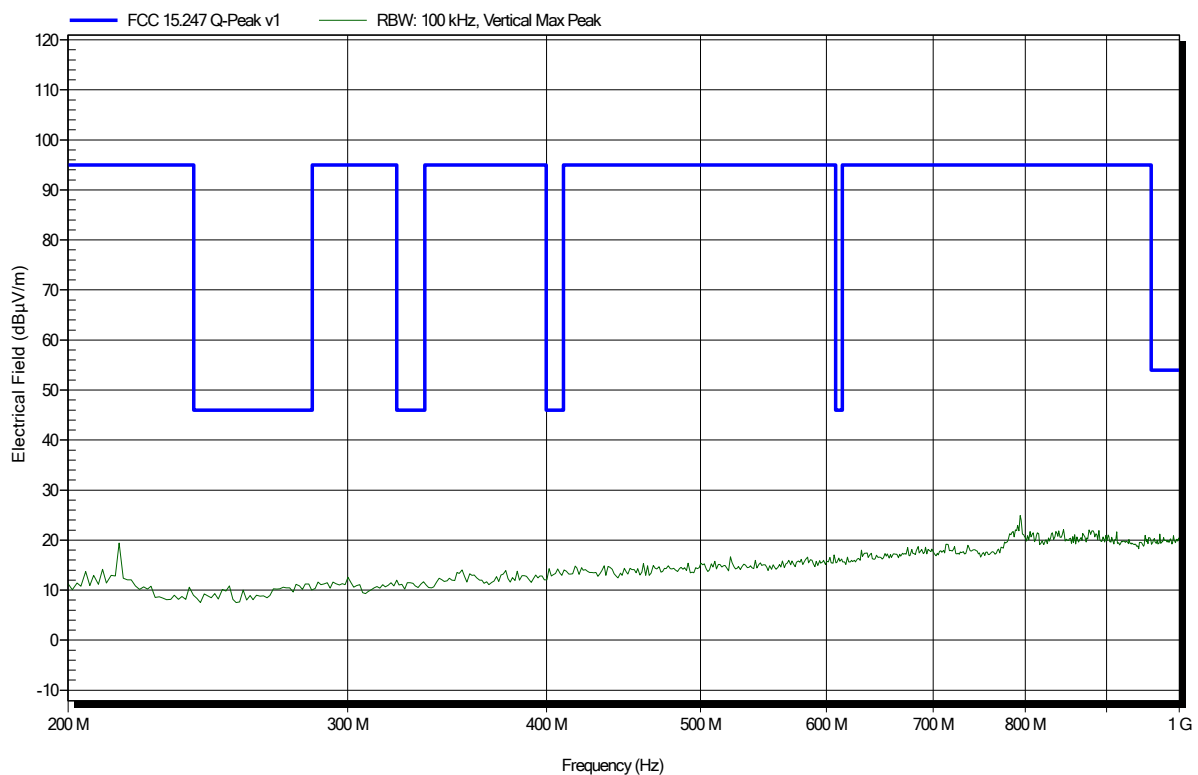


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Rohde & Schwarz HL 223, Vertical
Measurement distance: 3 m
Mode: TX; 2402 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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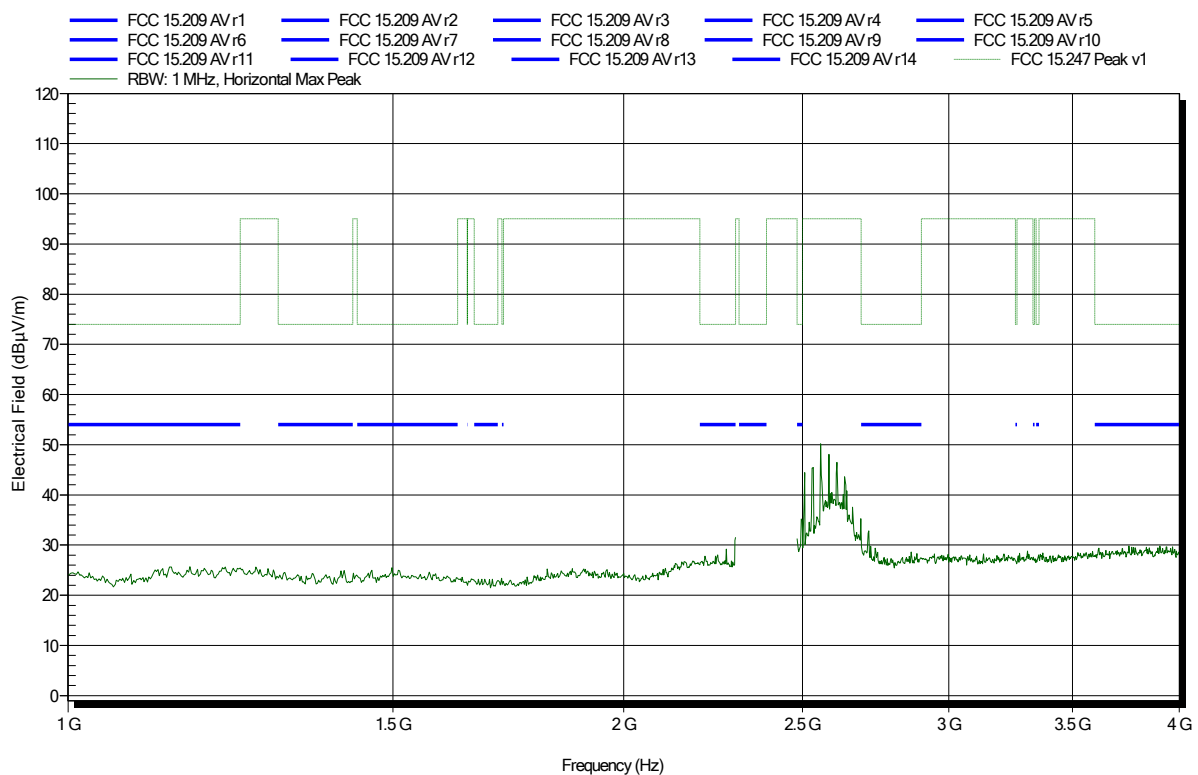


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement distance: 1 m converted to 3m
Mode: TX; 2402 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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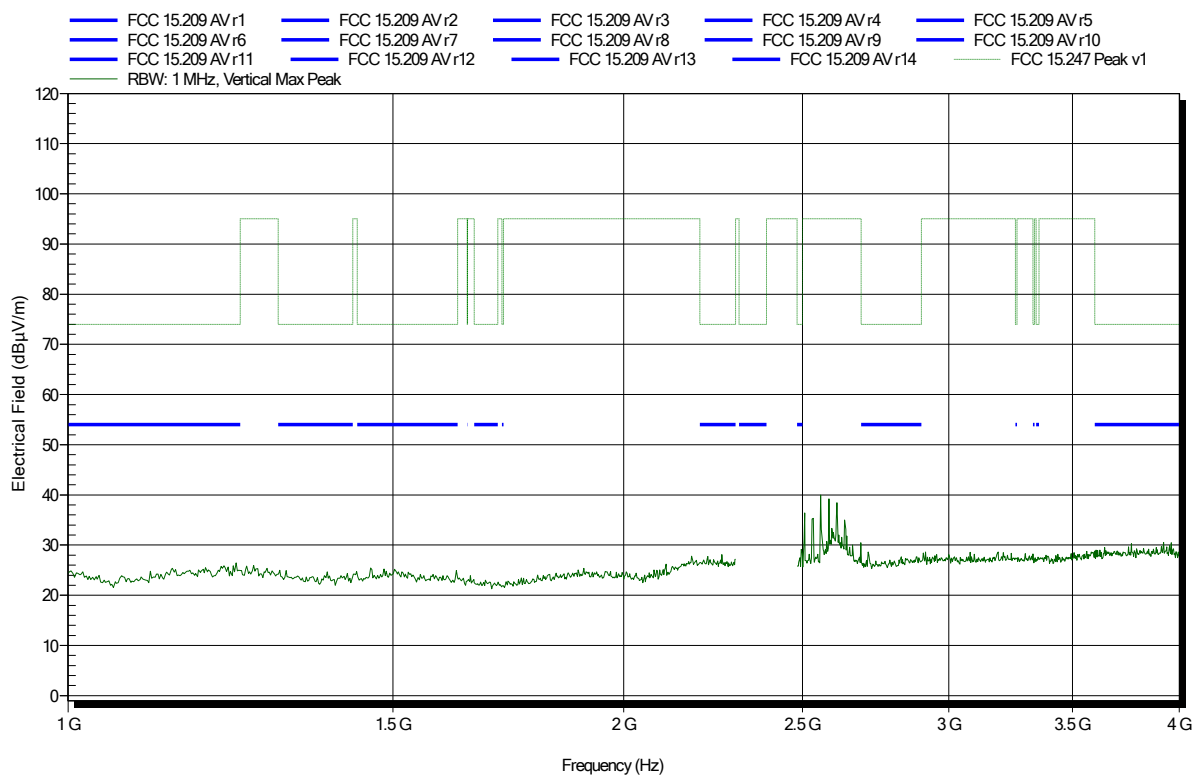


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Schwarzbeck BBHA 9120D, Vertical
Measurement distance: 1 m converted to 3m
Mode: TX; 2402 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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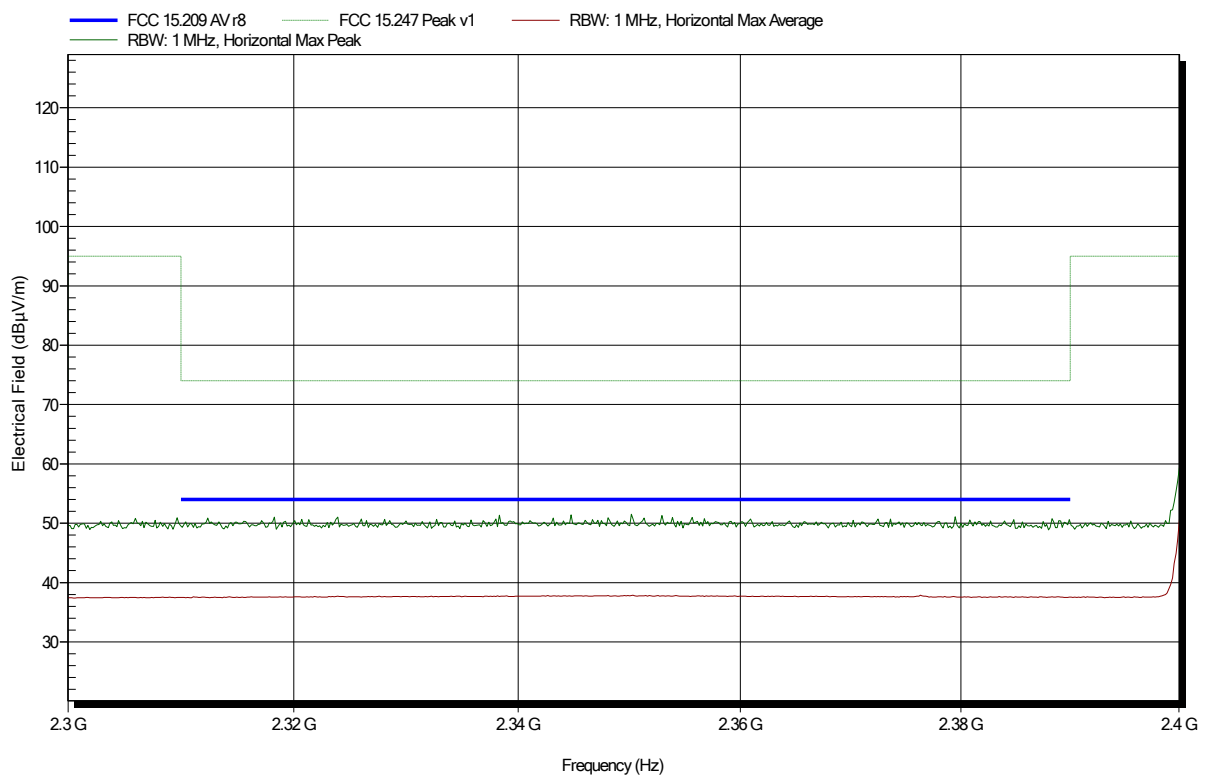


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement distance: 1 m converted to 3m
Mode: TX; 2402 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note: lower bandedge

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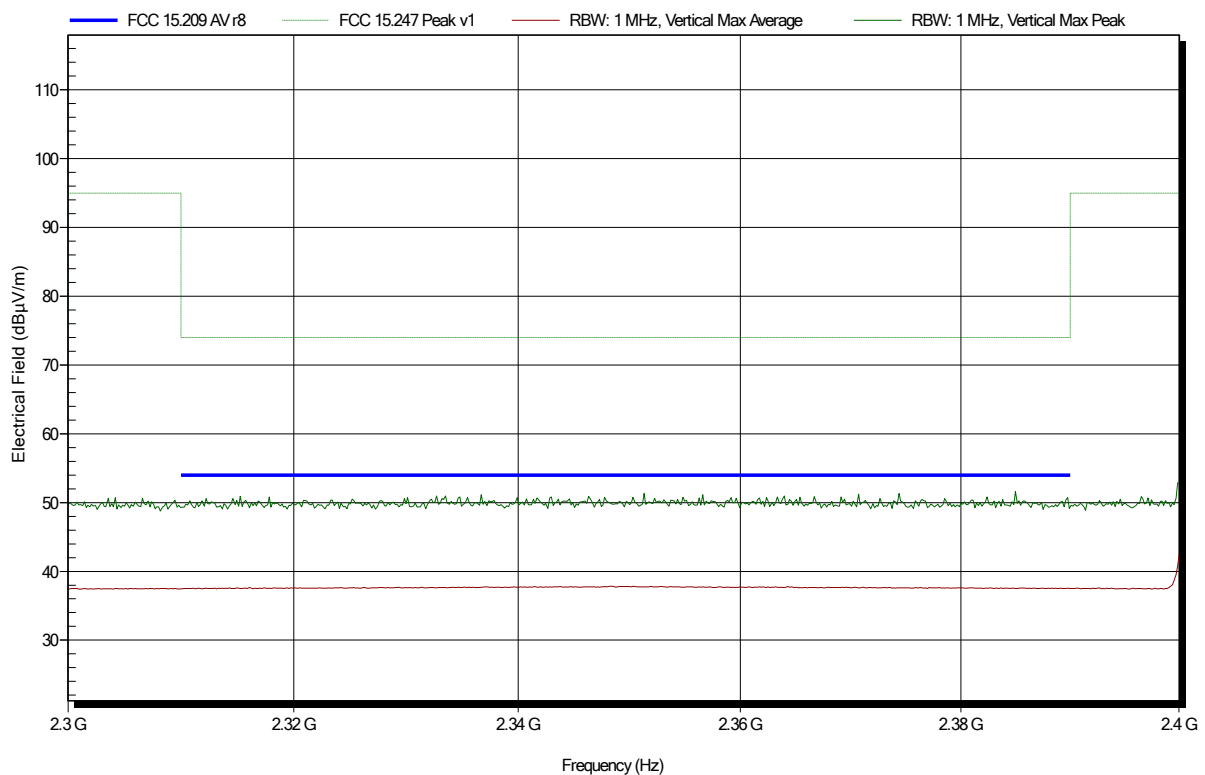


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Schwarzbeck BBHA 9120D, Vertical
Measurement distance: 1 m converted to 3m
Mode: TX; 2402 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note: lower bandedge

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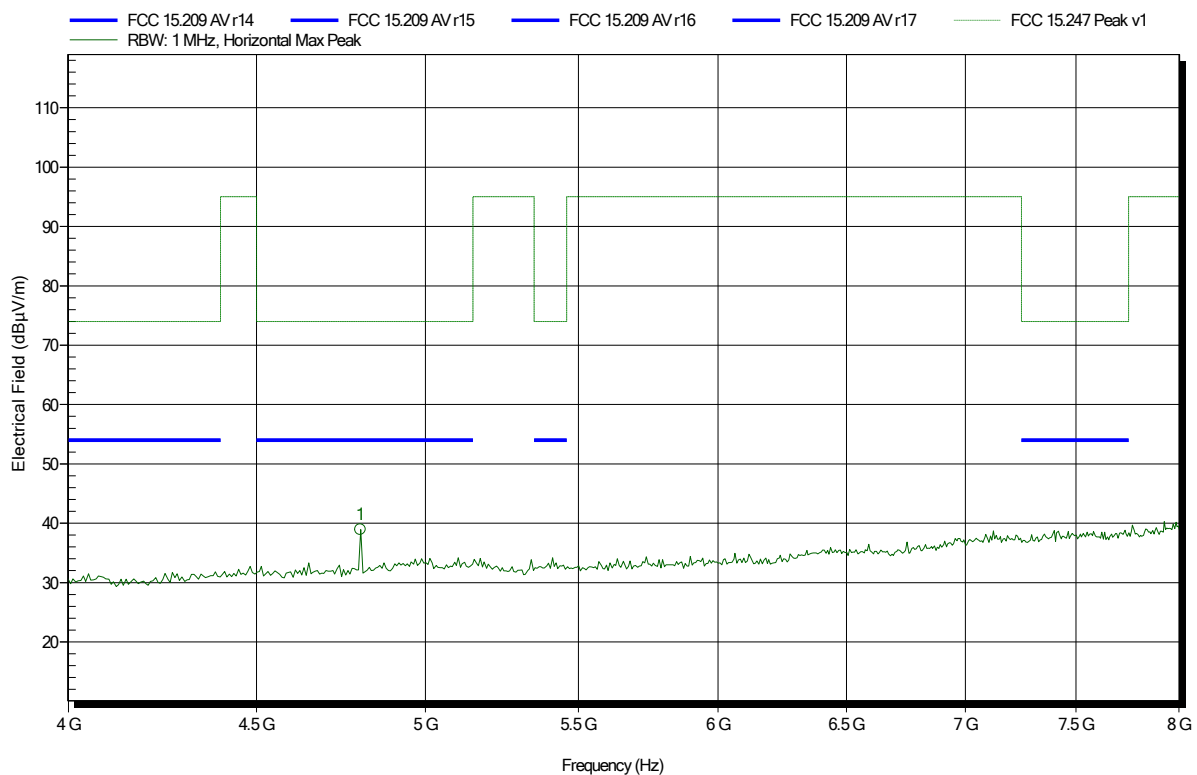


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
 EUT Name: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Site: Eurofins Product Service GmbH
 Operator: Abdullah Al Jamal
 Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2402 MHz – EUT horizontal – Test Sample ID 27955
 Test Date: 2020-02-19
 Note:

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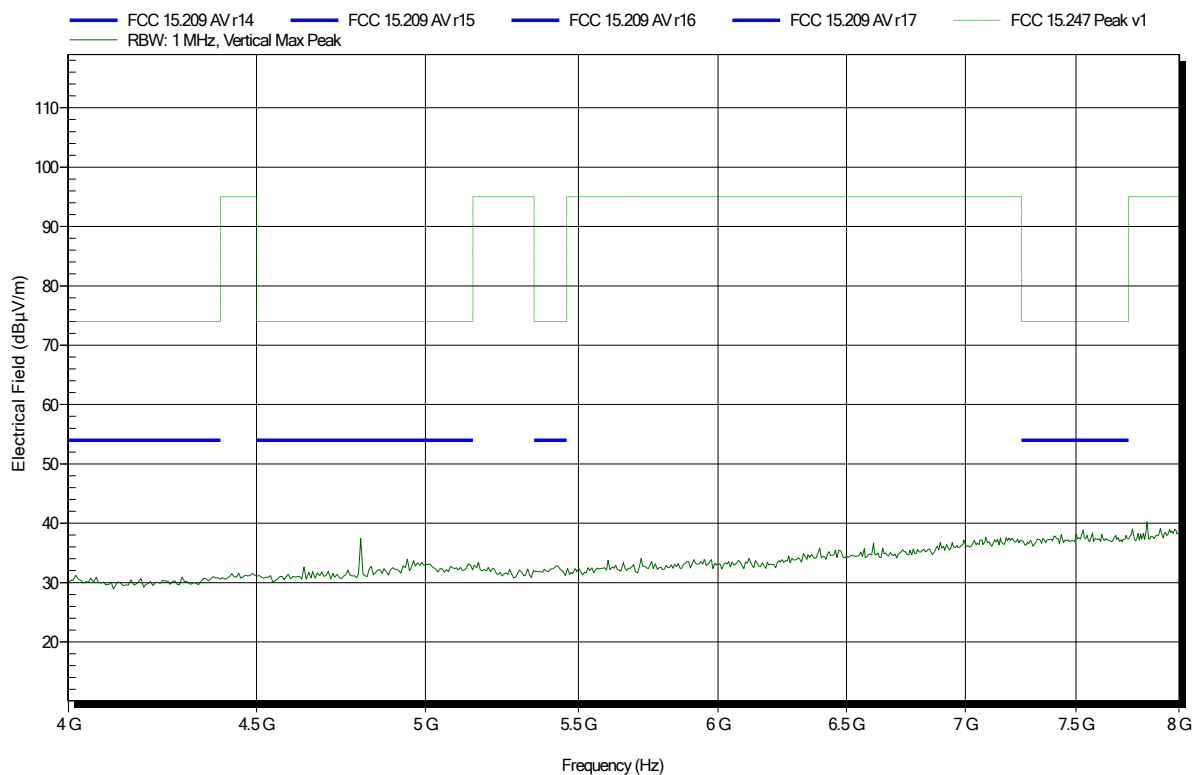
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.801 GHz	38.92 dBµV/m	74 dBµV/m	-35.08 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Schwarzbeck BBHA 9120D, Vertical
Measurement distance: 1 m converted to 3m
Mode: TX; 2402 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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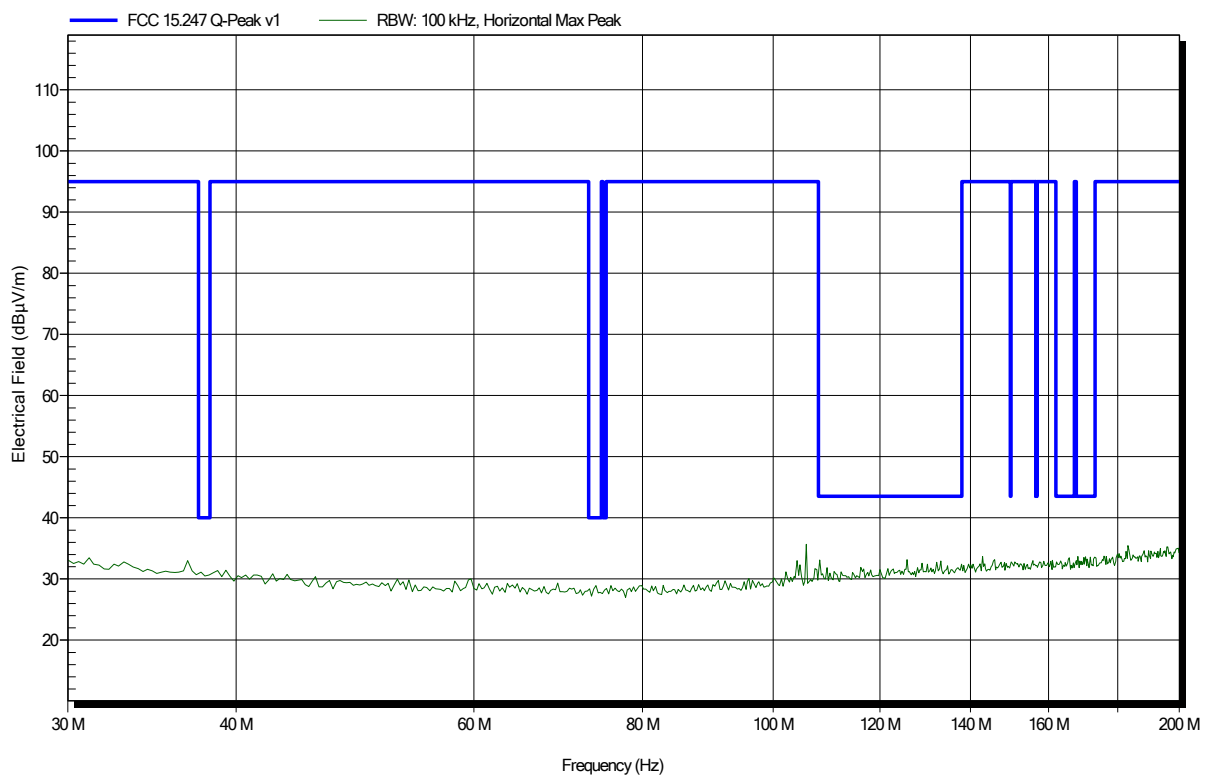


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Rohde & Schwarz HK 116, Horizontal
Measurement distance: 3 m
Mode: TX; 2441 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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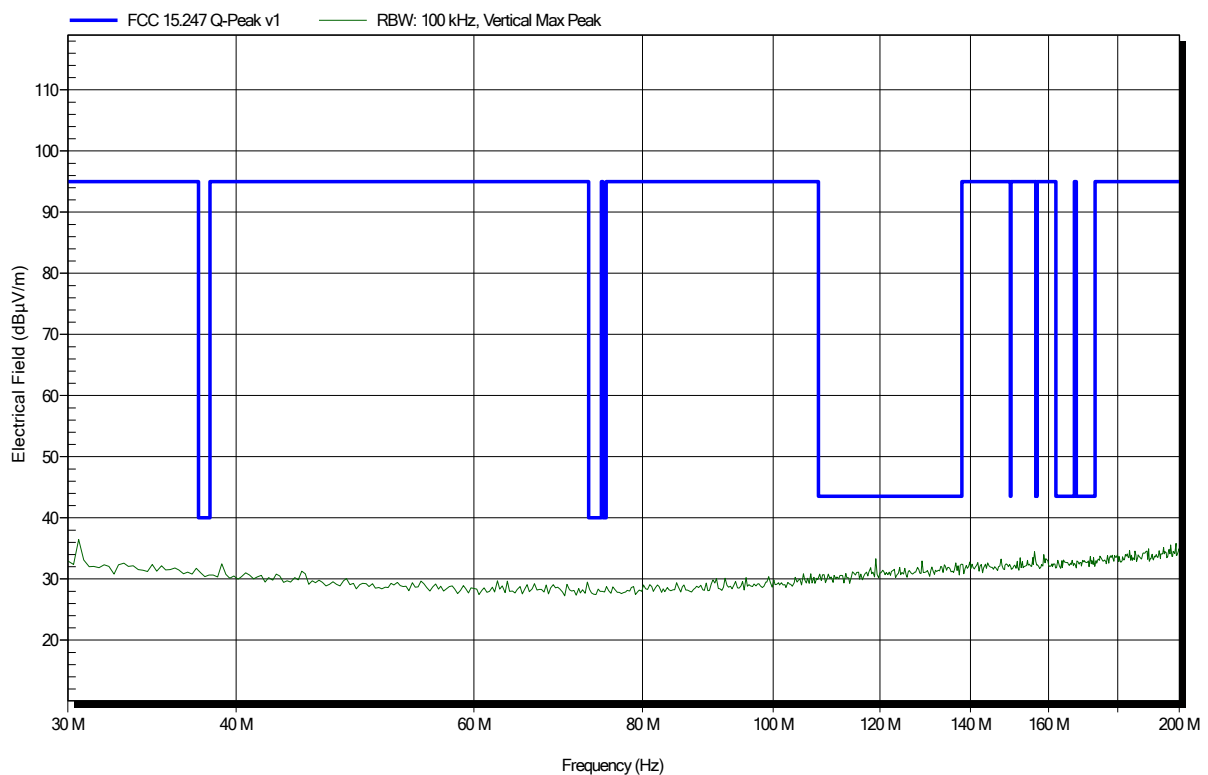


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Rohde & Schwarz HK 116, Vertical
Measurement distance: 3 m
Mode: TX; 2441 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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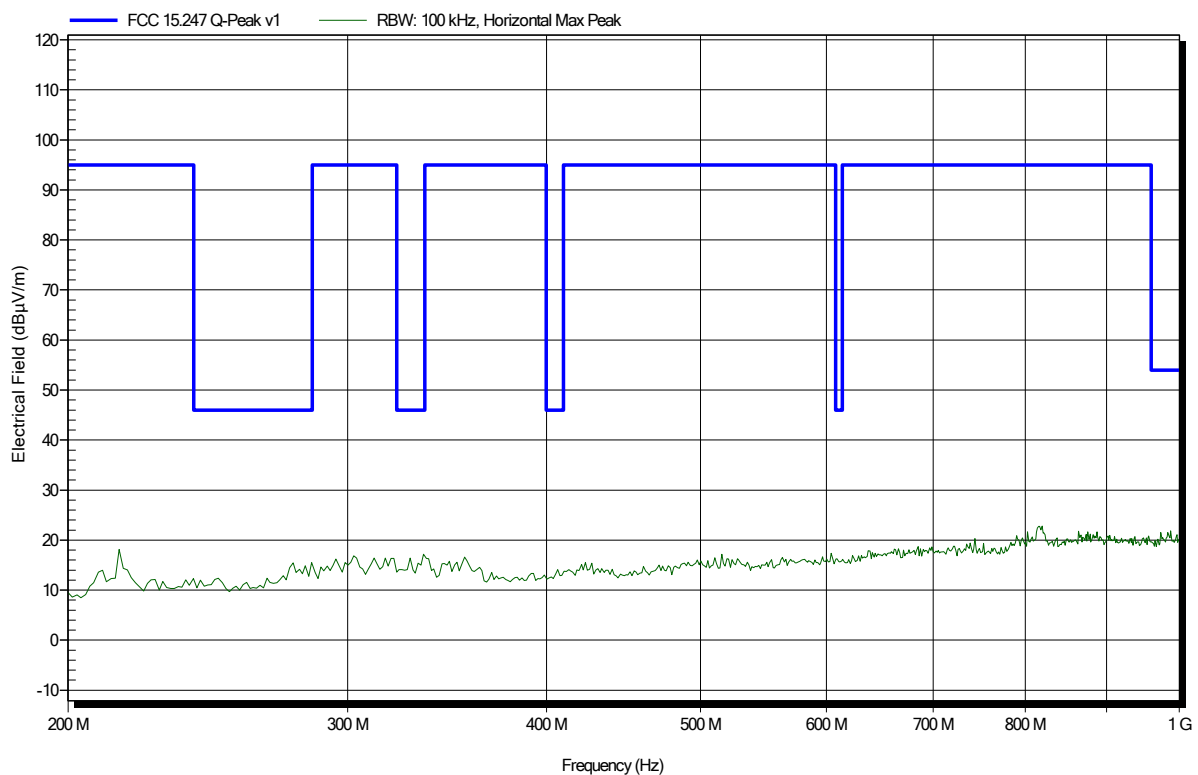


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Rohde & Schwarz HL 223, Horizontal
Measurement distance: 3 m
Mode: TX; 2441 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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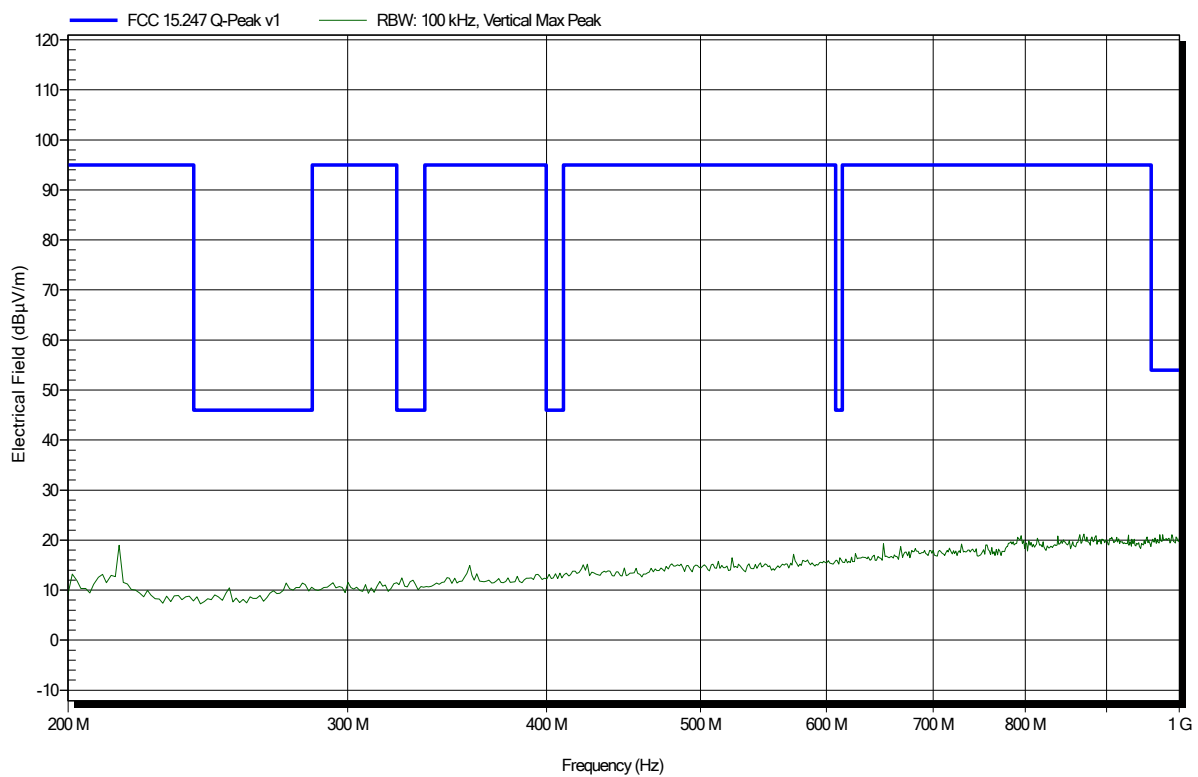


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Rohde & Schwarz HL 223, Vertical
Measurement distance: 3 m
Mode: TX; 2441 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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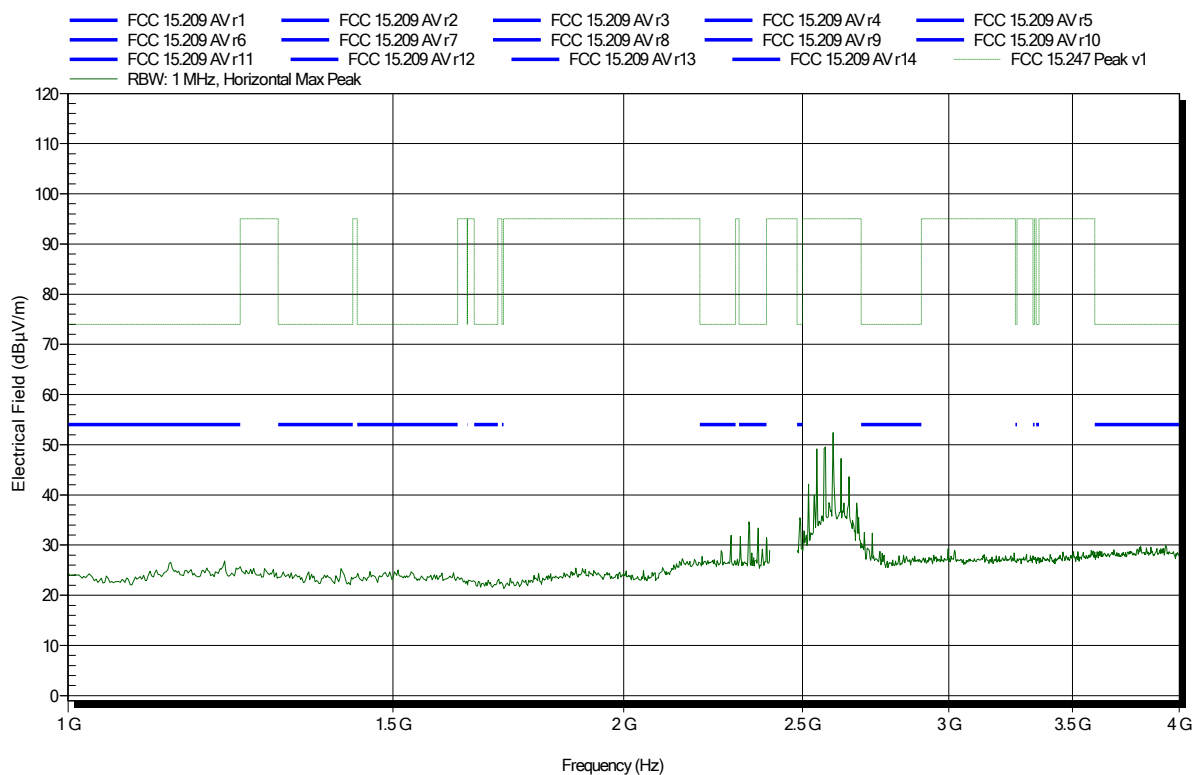


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement distance: 1 m converted to 3m
Mode: TX; 2441 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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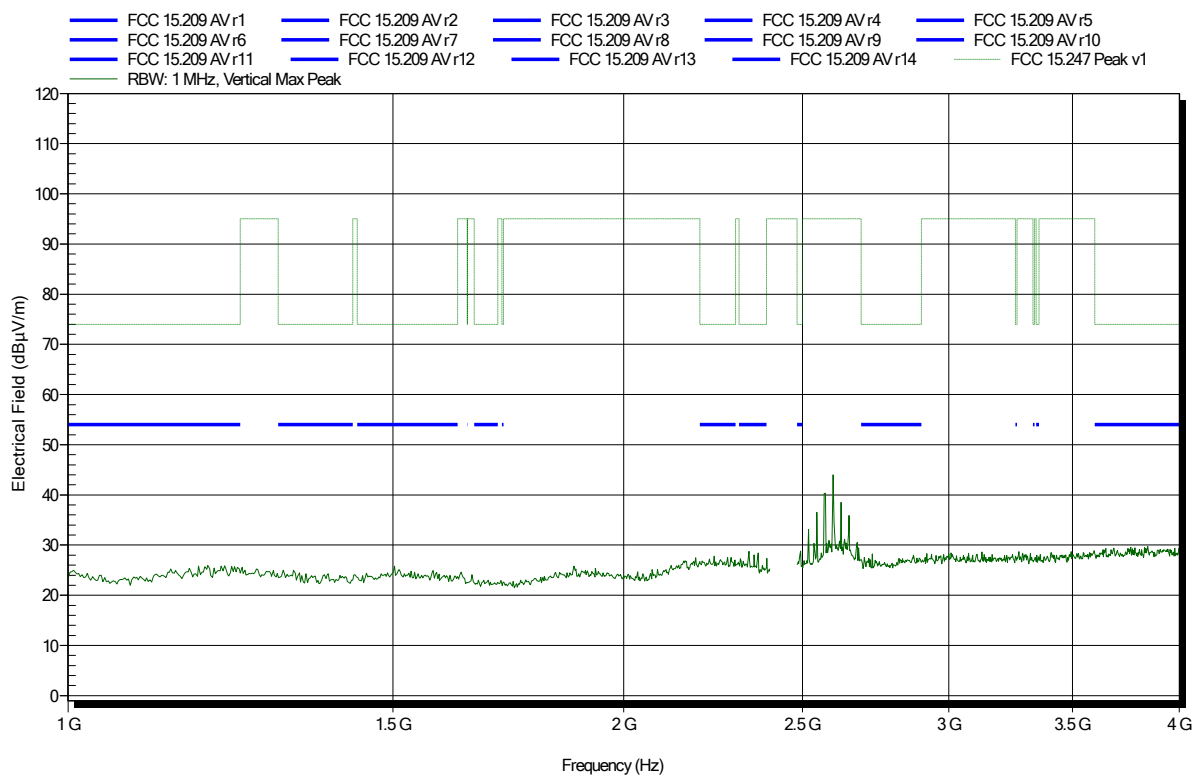


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Schwarzbeck BBHA 9120D, Vertical
Measurement distance: 1 m converted to 3m
Mode: TX; 2441 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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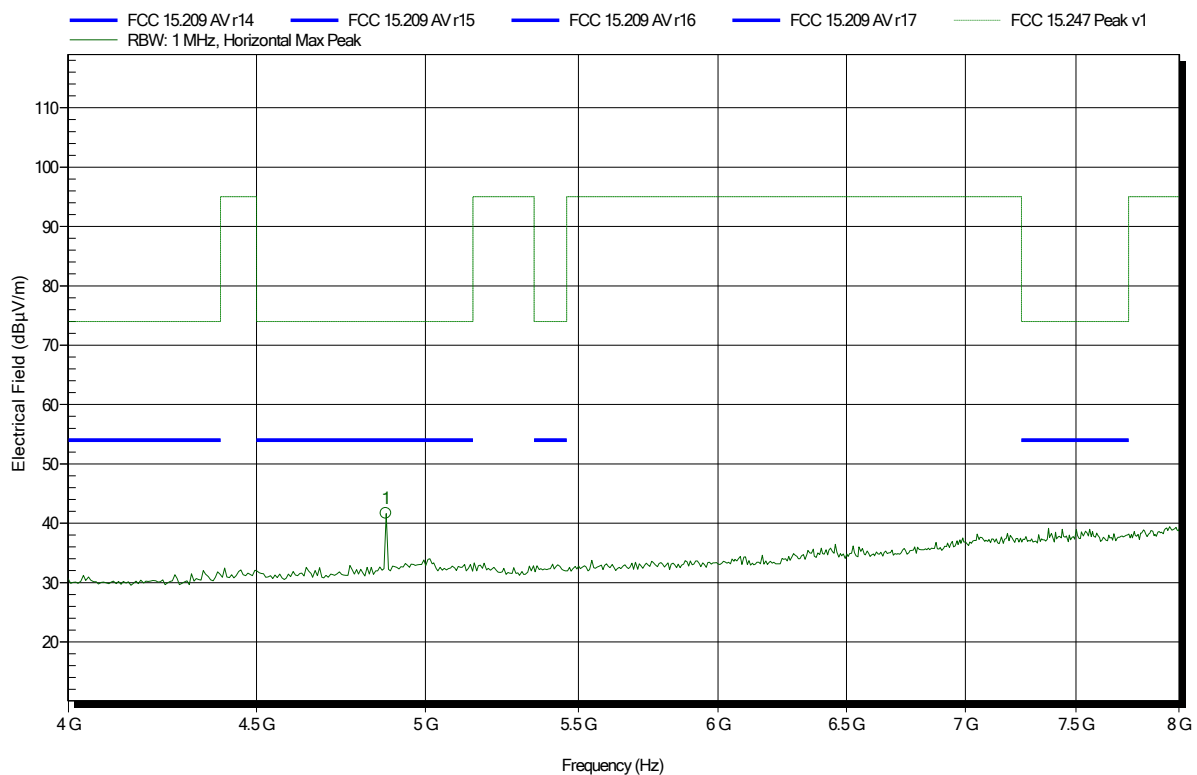


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement distance: 1 m converted to 3m
Mode: TX; 2441 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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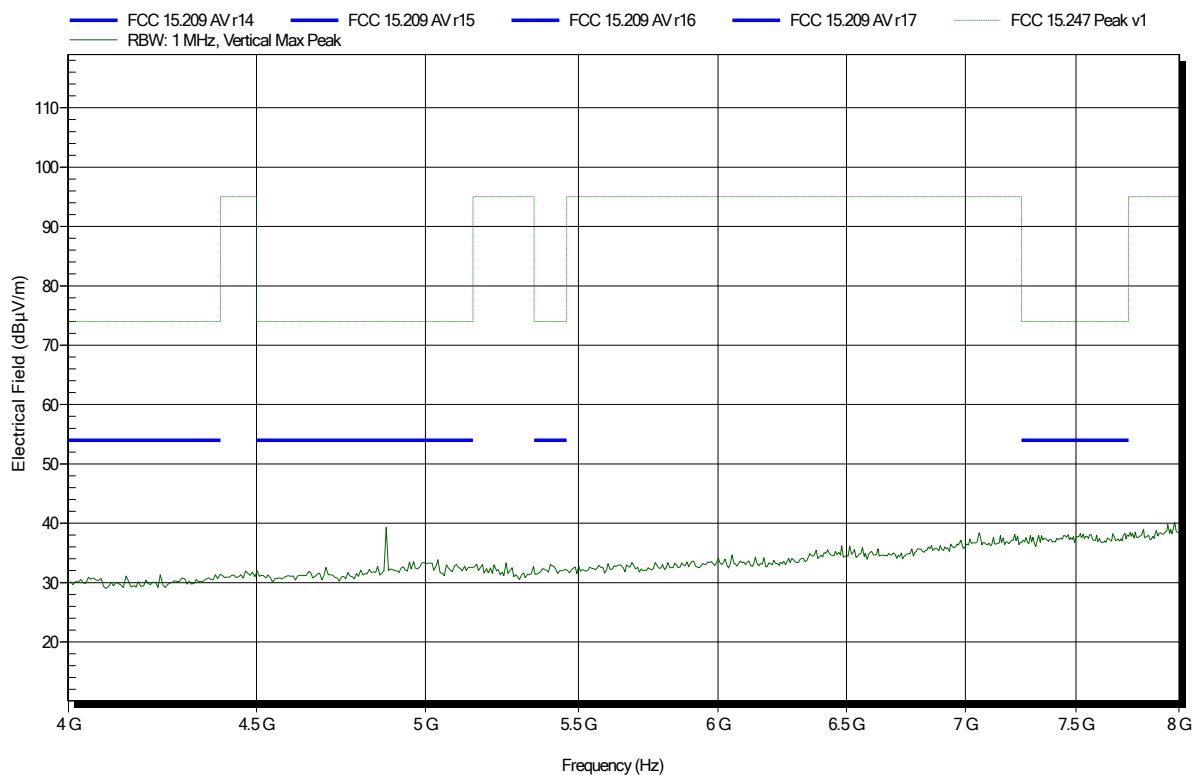
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.878 GHz	41.65 dBµV/m	74 dBµV/m	-32.35 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
 EUT Name: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Site: Eurofins Product Service GmbH
 Operator: Abdullah Al Jamal
 Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2441 MHz – EUT horizontal – Test Sample ID 27955
 Test Date: 2020-02-19
 Note:

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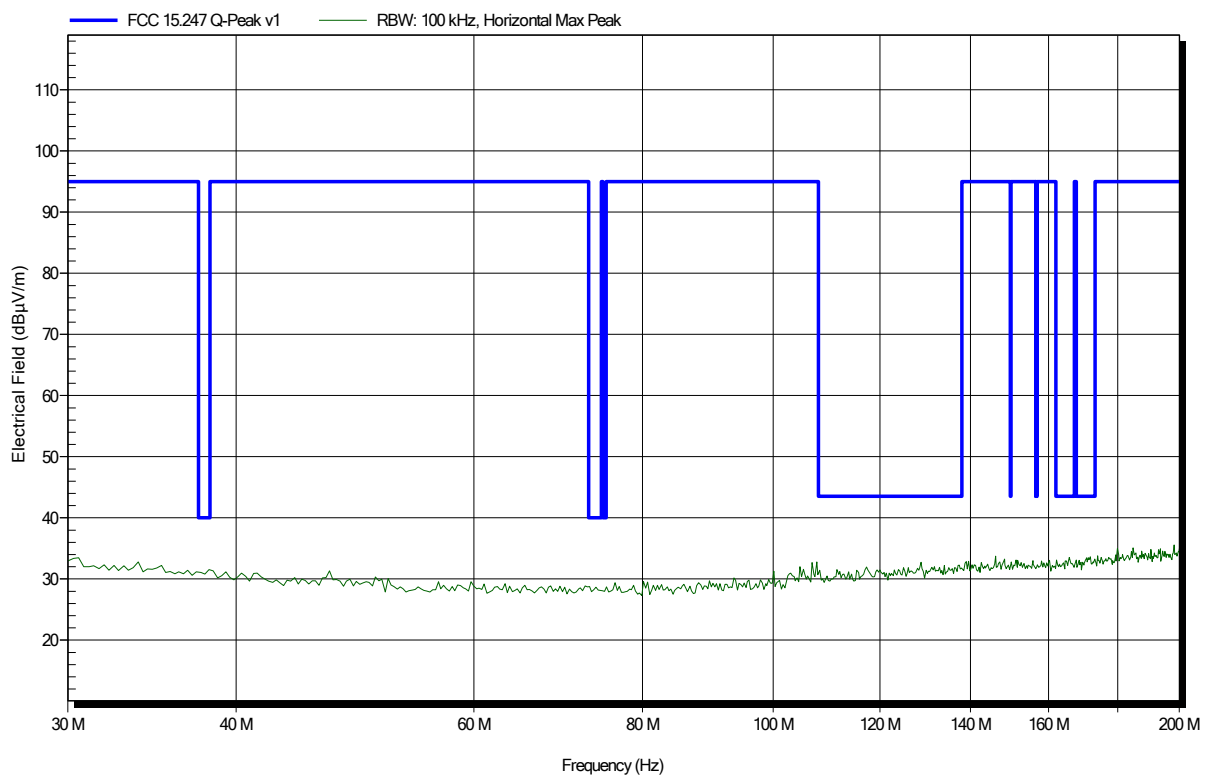


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Rohde & Schwarz HK 116, Horizontal
Measurement distance: 3 m
Mode: TX; 2480 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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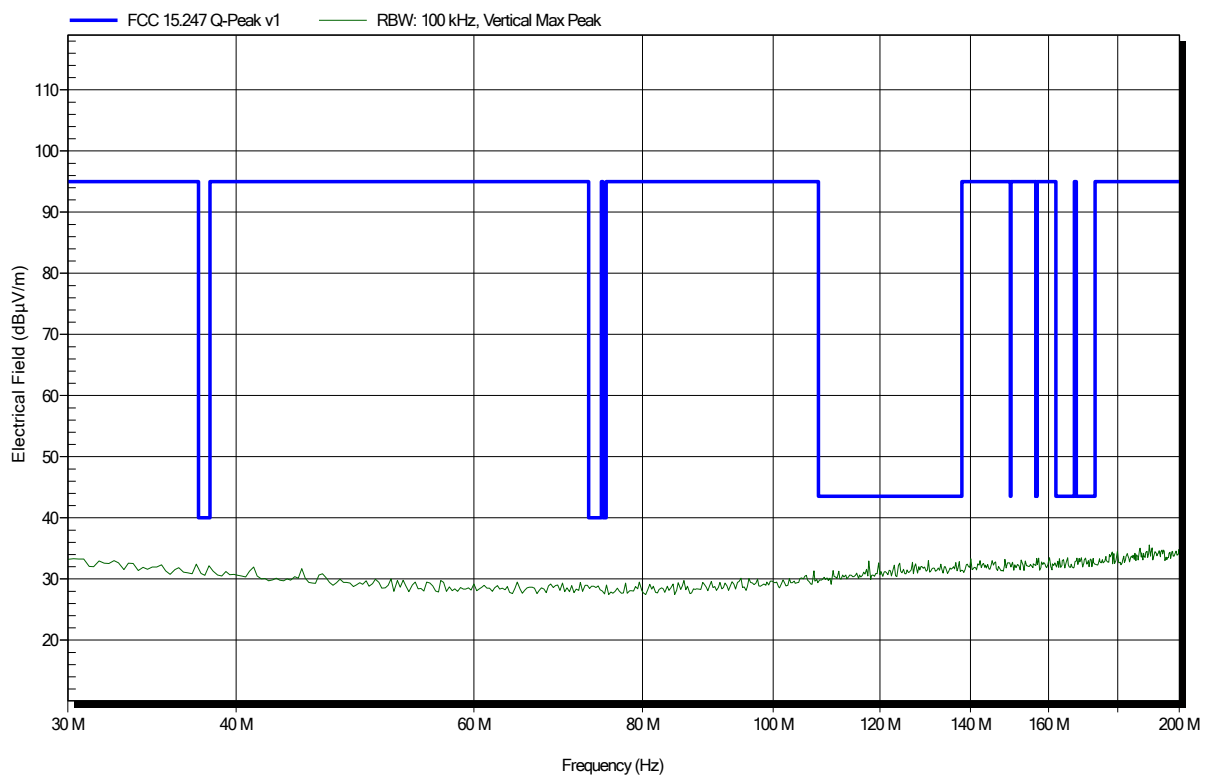


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Rohde & Schwarz HK 116, Vertical
Measurement distance: 3 m
Mode: TX; 2480 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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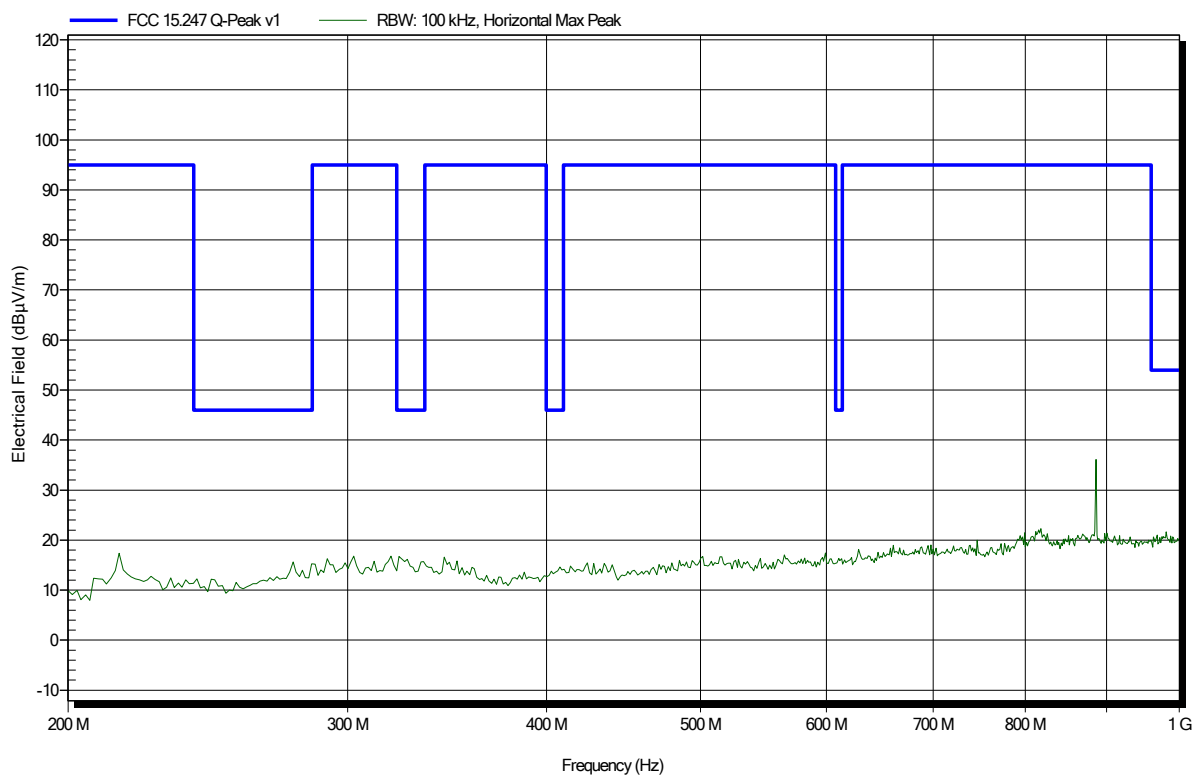


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
 EUT Name: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Site: Eurofins Product Service GmbH
 Operator: Abdullah Al Jamal
 Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: TX; 2480 MHz – EUT horizontal – Test Sample ID 27955
 Test Date: 2020-02-19
 Note:

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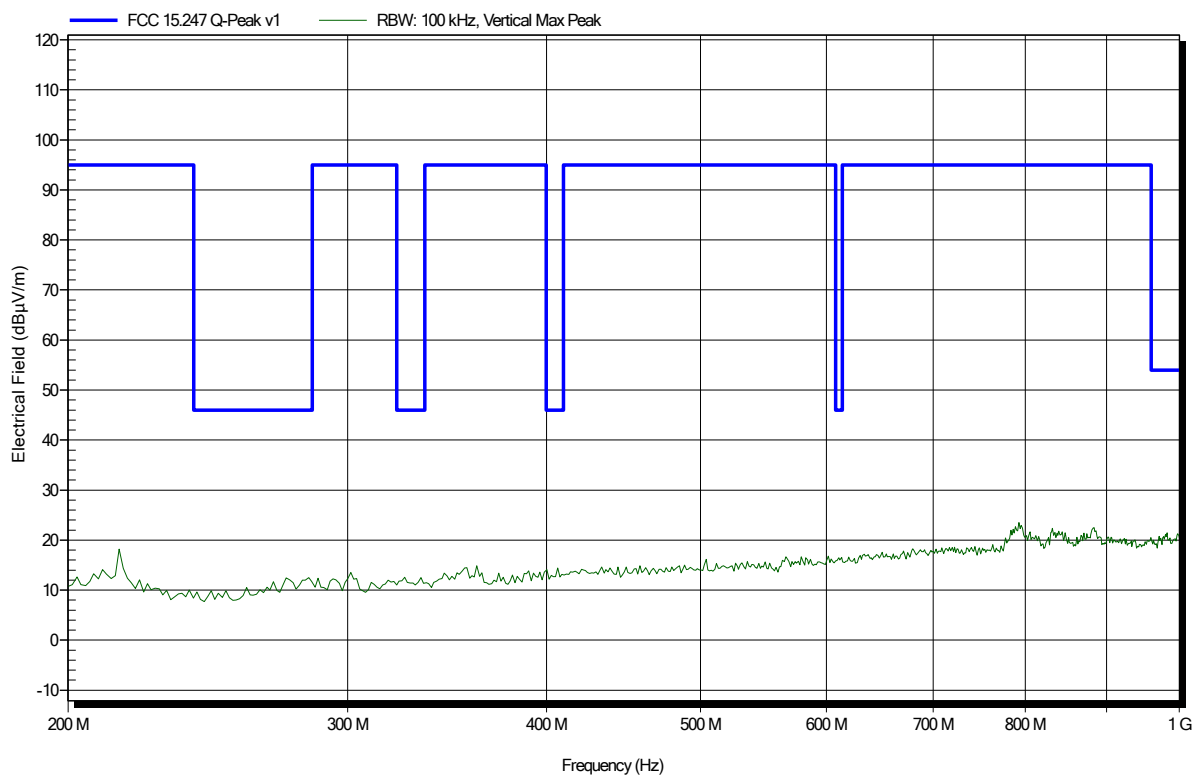


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Rohde & Schwarz HL 223, Vertical
Measurement distance: 3 m
Mode: TX; 2480 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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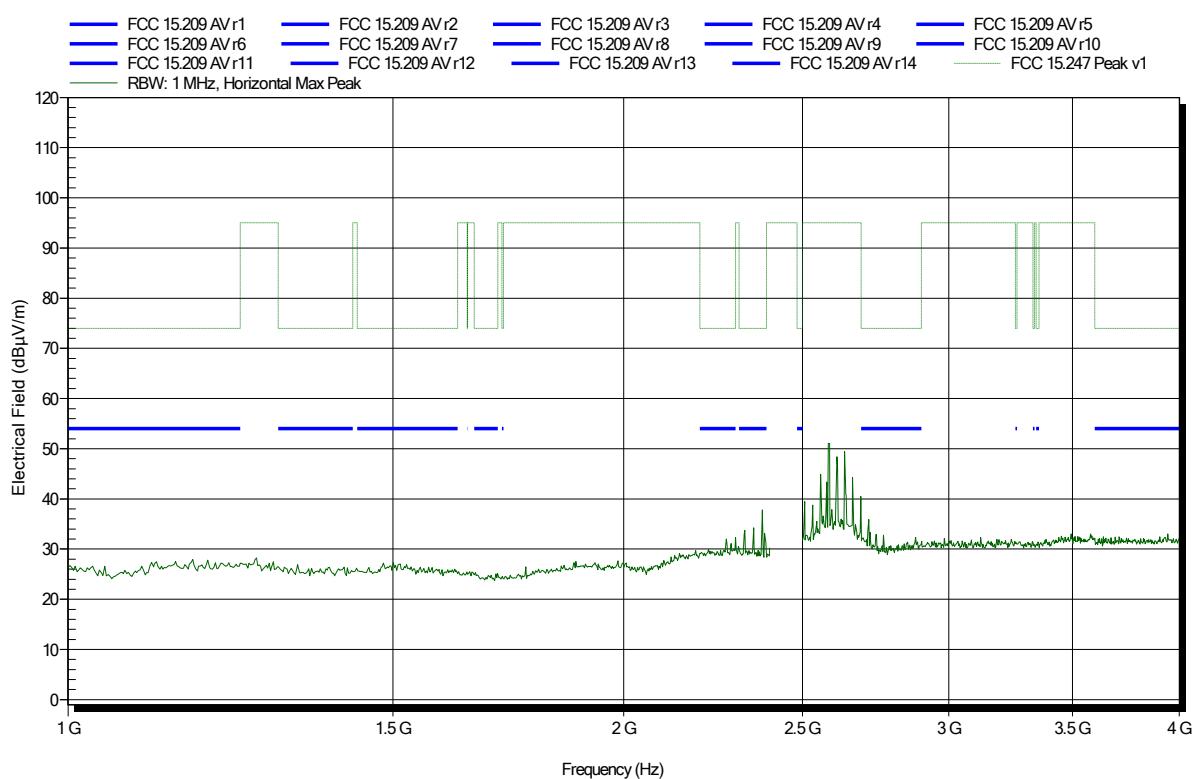


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement distance: 1 m converted to 3m
Mode: TX; 2480 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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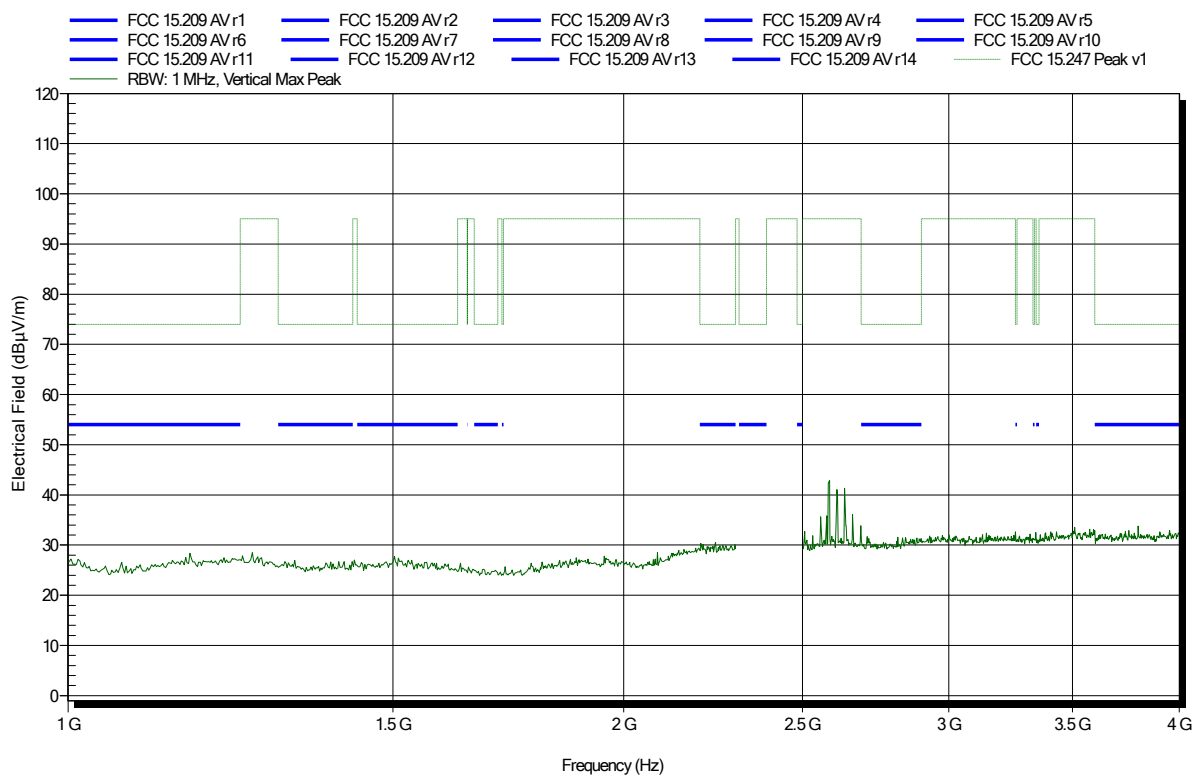


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Schwarzbeck BBHA 9120D, Vertical
Measurement distance: 1 m converted to 3m
Mode: TX; 2480 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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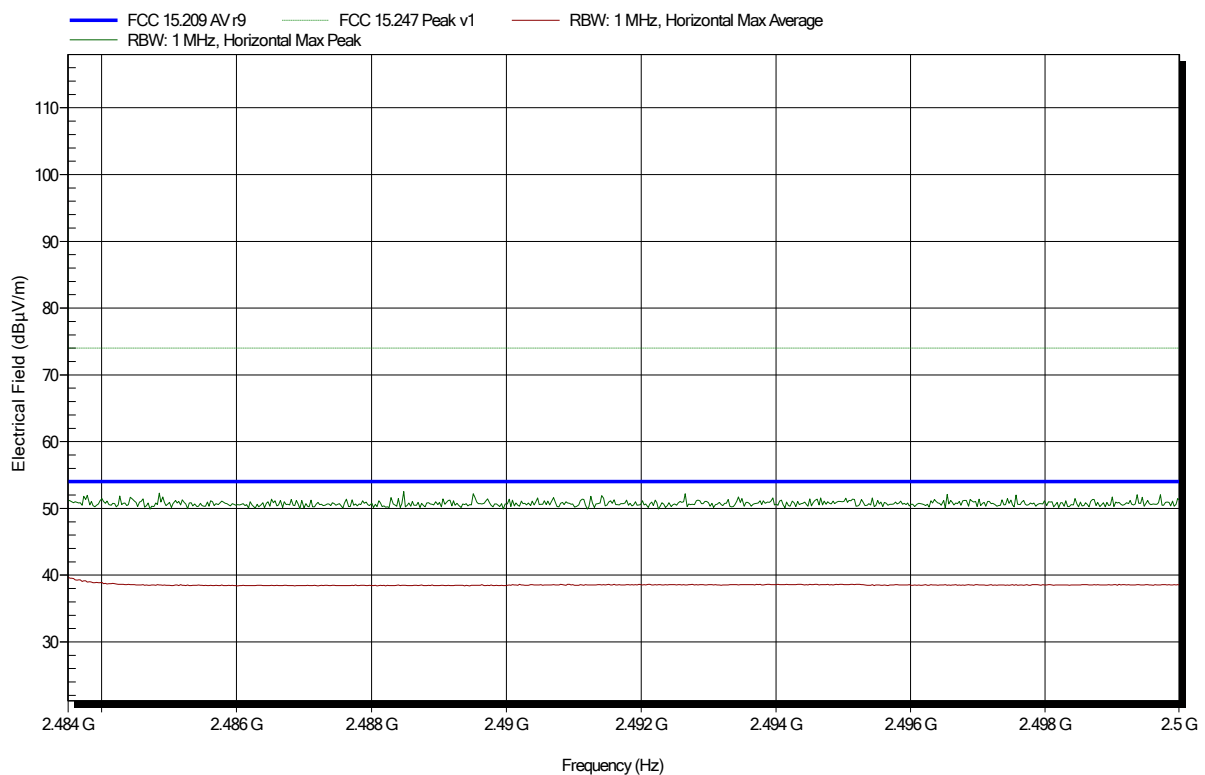


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
 EUT Name: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Site: Eurofins Product Service GmbH
 Operator: Abdullah Al Jamal
 Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2480 MHz – EUT horizontal – Test Sample ID 27955
 Test Date: 2020-02-19
 Note: upper bandedge

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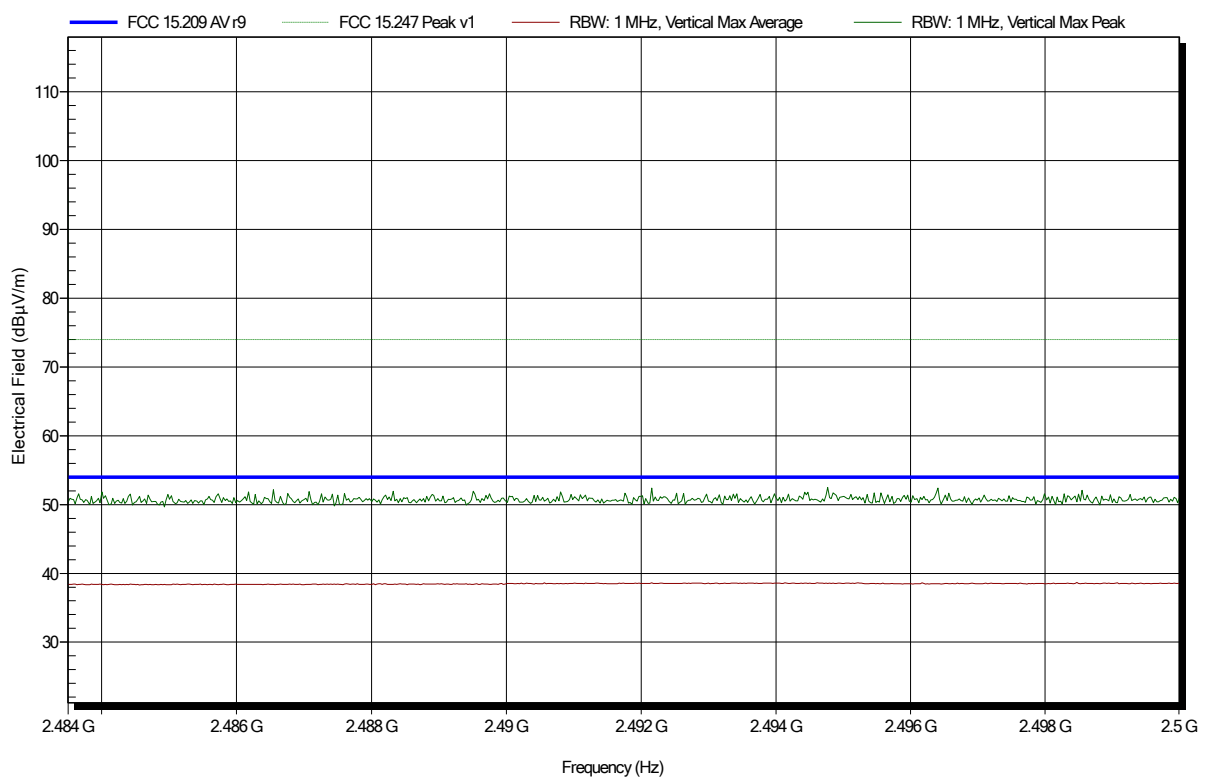


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Schwarzbeck BBHA 9120D, Vertical
Measurement distance: 1 m converted to 3m
Mode: TX; 2480 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note: upper bandedge

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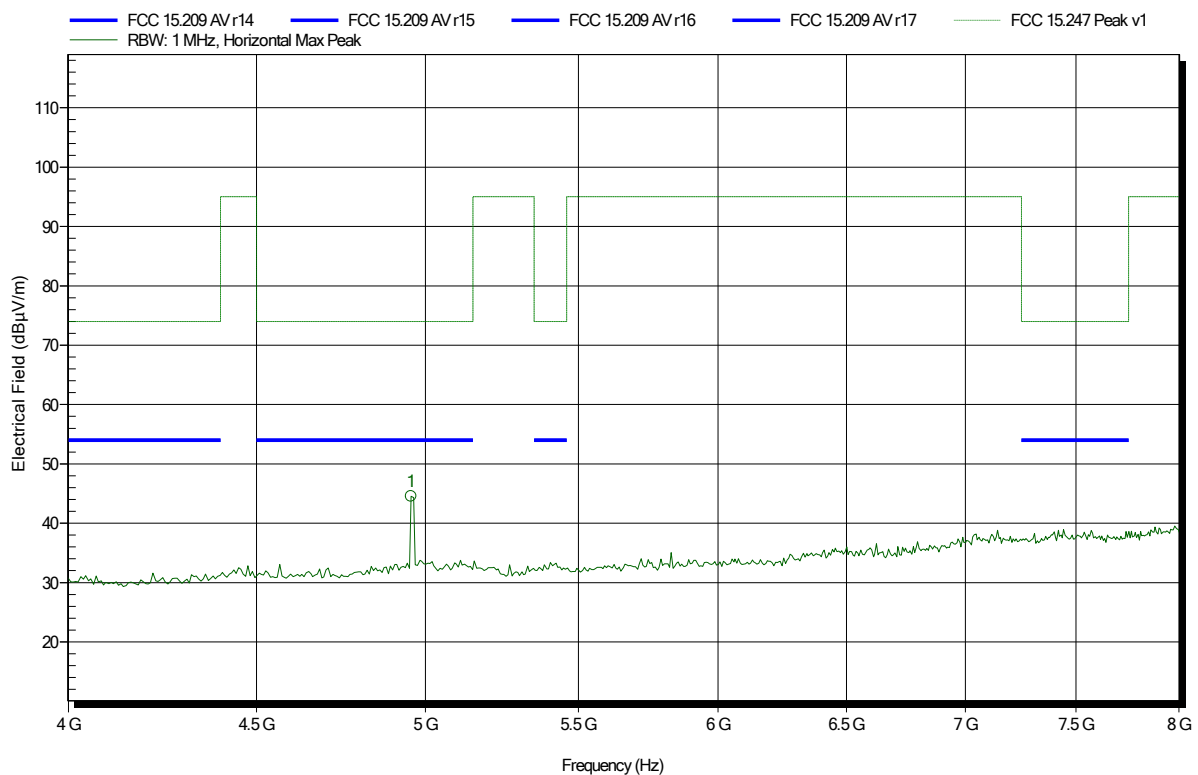


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement distance: 1 m converted to 3m
Mode: TX; 2480 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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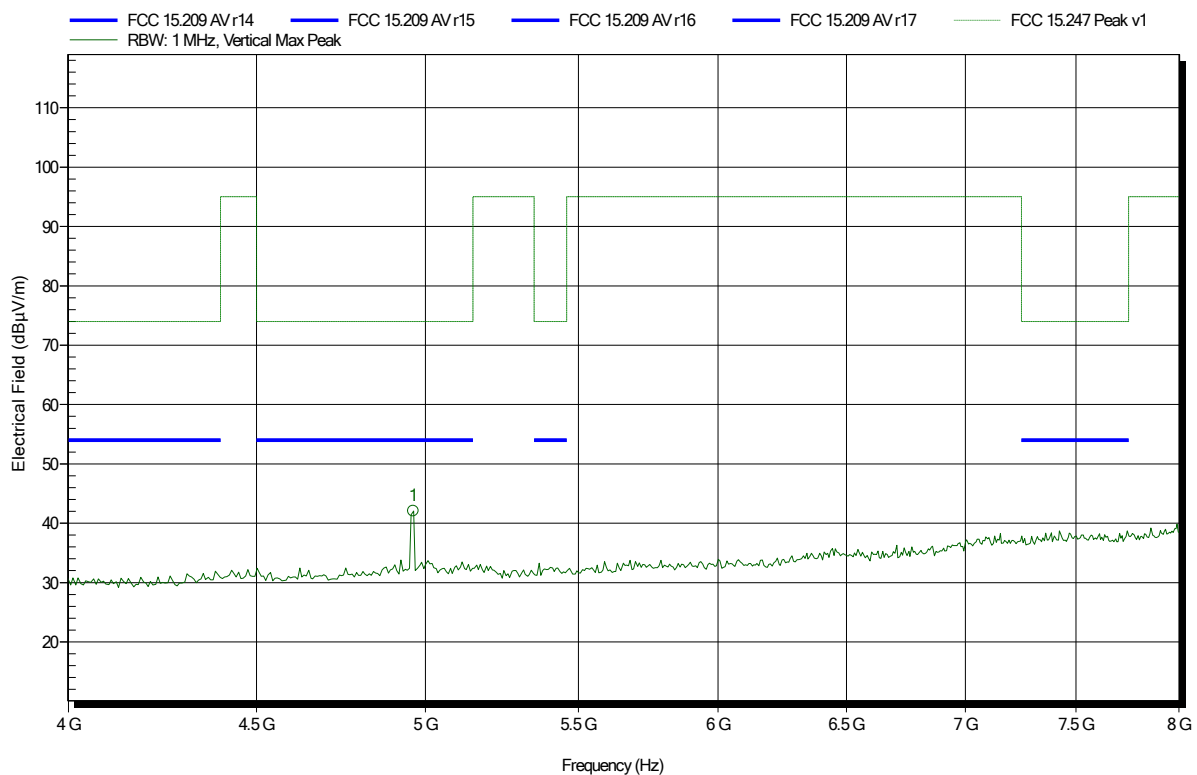
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.955 GHz	44.55 dBµV/m	74 dBµV/m	-29.45 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Schwarzbeck BBHA 9120D, Vertical
Measurement distance: 1 m converted to 3m
Mode: TX; 2480 MHz – EUT horizontal – Test Sample ID 27955
Test Date: 2020-02-19
Note:

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.962 GHz	42.04 dBμV/m	74 dBμV/m	-31.96 dB	Pass

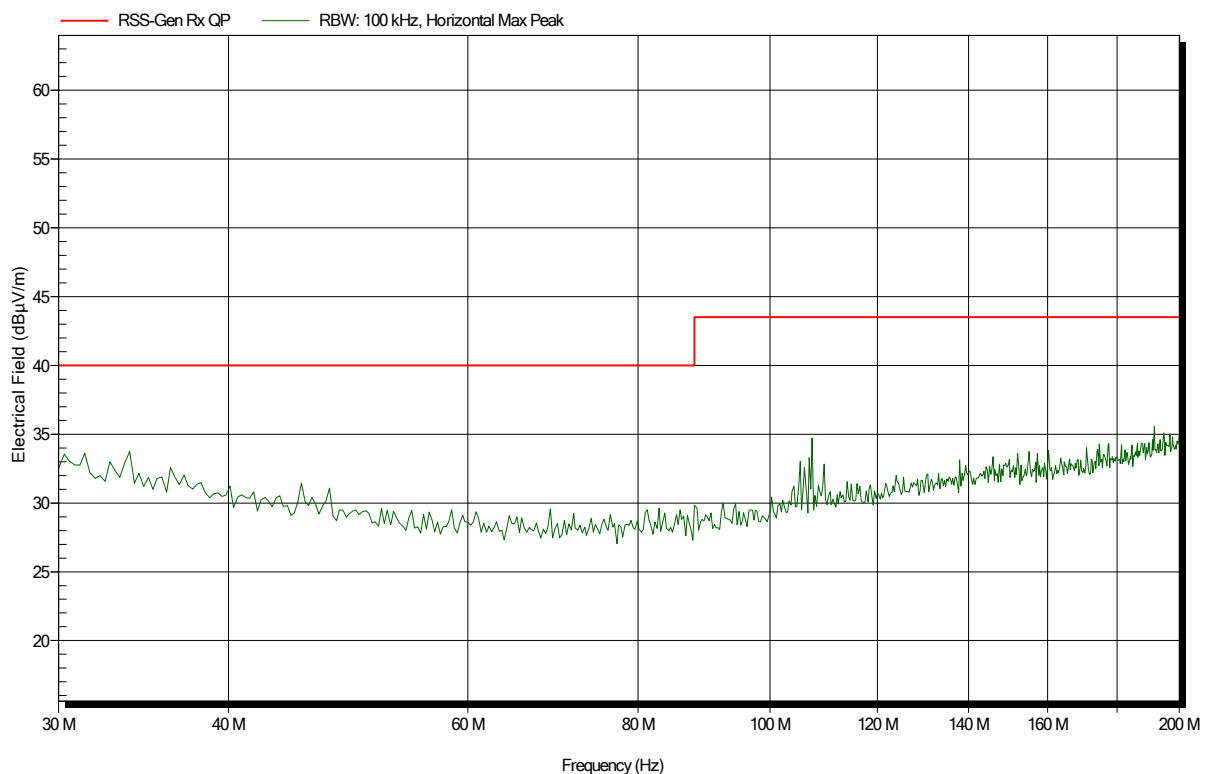
ANNEX B Receiver spurious emissions

Spurious emissions according to ISED RSS-247 Issue 2 (February 2017)

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
 EUT Name: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Site: Eurofins Product Service GmbH
 Operator: Abdullah Al Jamal
 Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: RX; Test Sample ID 27955
 Test Date: 2020-02-19
 Note:

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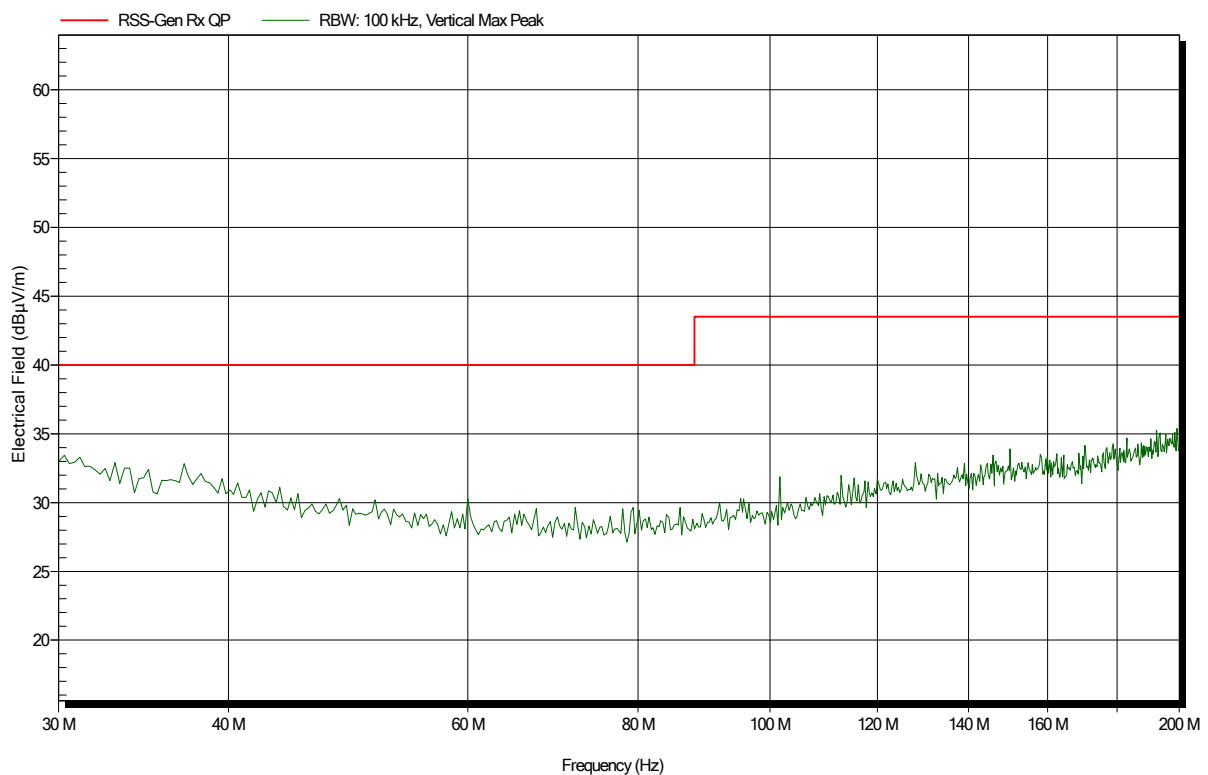


Spurious emissions according to ISSED RSS-247 Issue 2 (February 2017)

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Rohde & Schwarz HK 116, Vertical
Measurement distance: 3 m
Mode: RX; Test Sample ID 27955
Test Date: 2020-02-19
Note:

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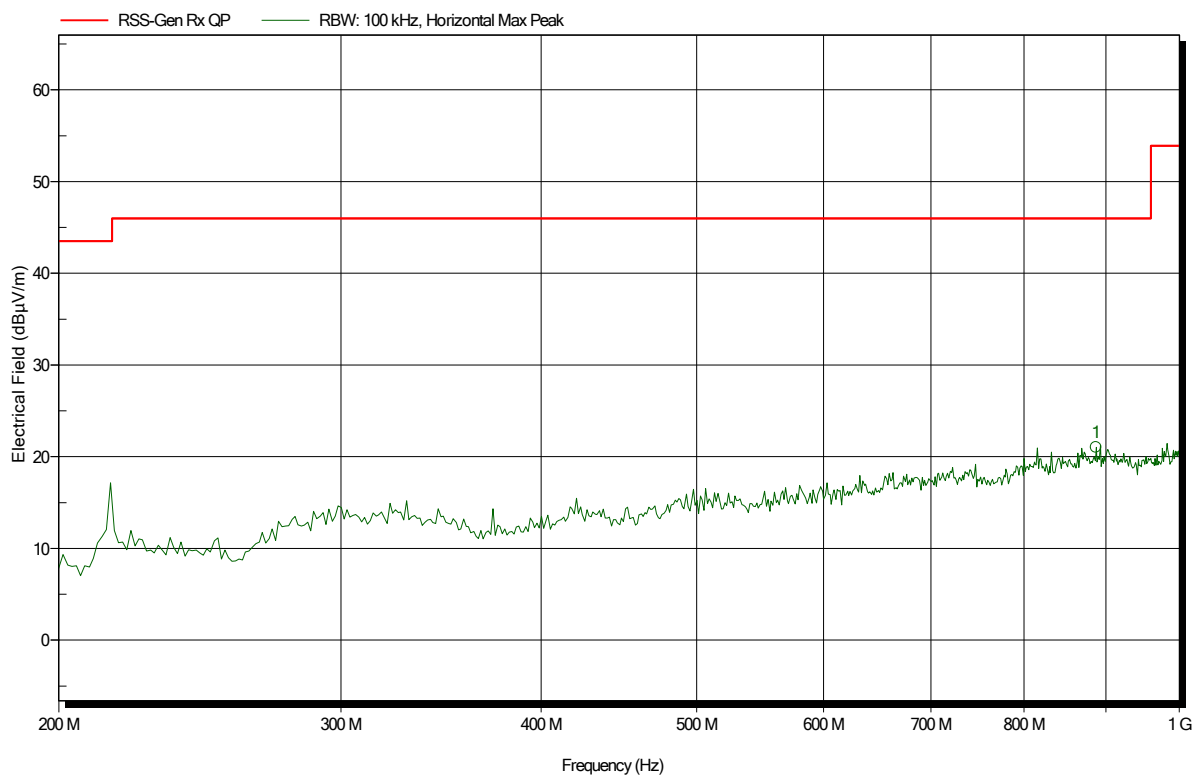


Spurious emissions according to ISSED RSS-247 Issue 2 (February 2017)

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Rohde & Schwarz HL 223, Horizontal
Measurement distance: 3 m
Mode: RX; Test Sample ID 27955
Test Date: 2020-02-19
Note:

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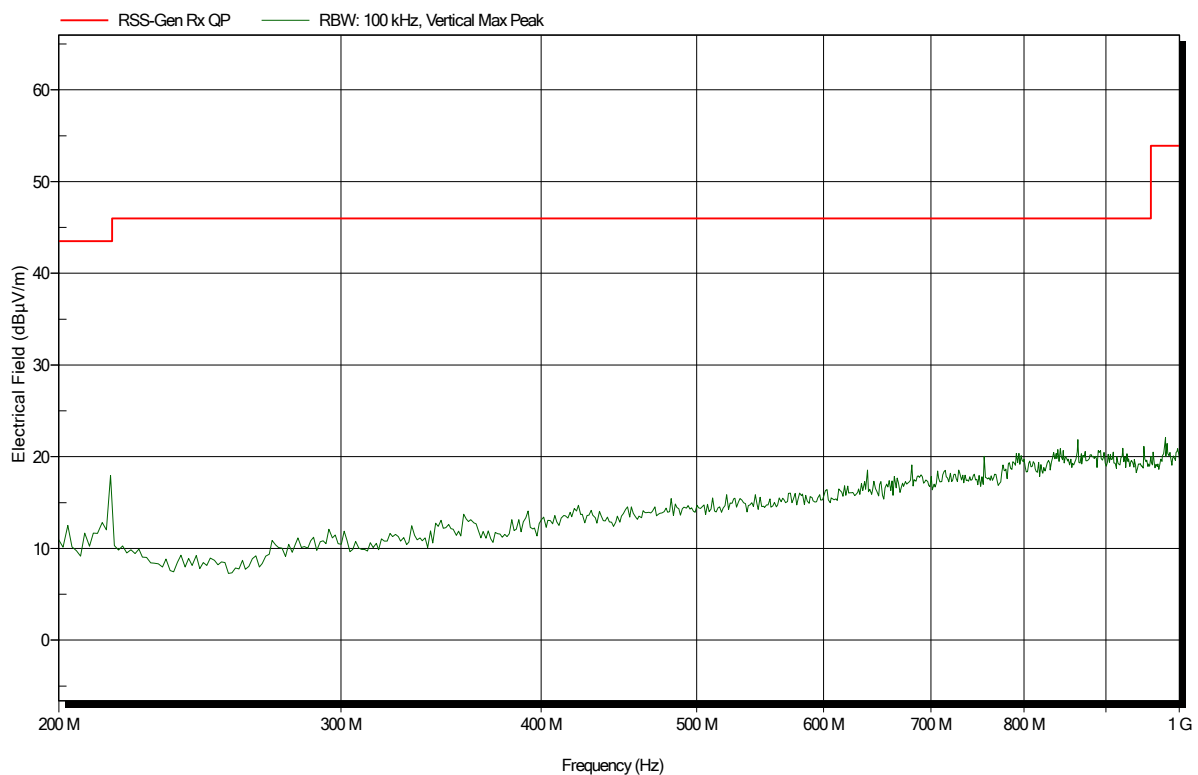
Frequency	Peak	Peak Limit	Peak Difference	Status	Angle	Height
887.179 MHz	21.03 dBμV/m	46 dBμV/m	-24.97 dB	Pass	45 Degree	1.2 m

Spurious emissions according to ISSED RSS-247 Issue 2 (February 2017)

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Rohde & Schwarz HL 223, Vertical
Measurement distance: 3 m
Mode: RX; Test Sample ID 27955
Test Date: 2020-02-19
Note:

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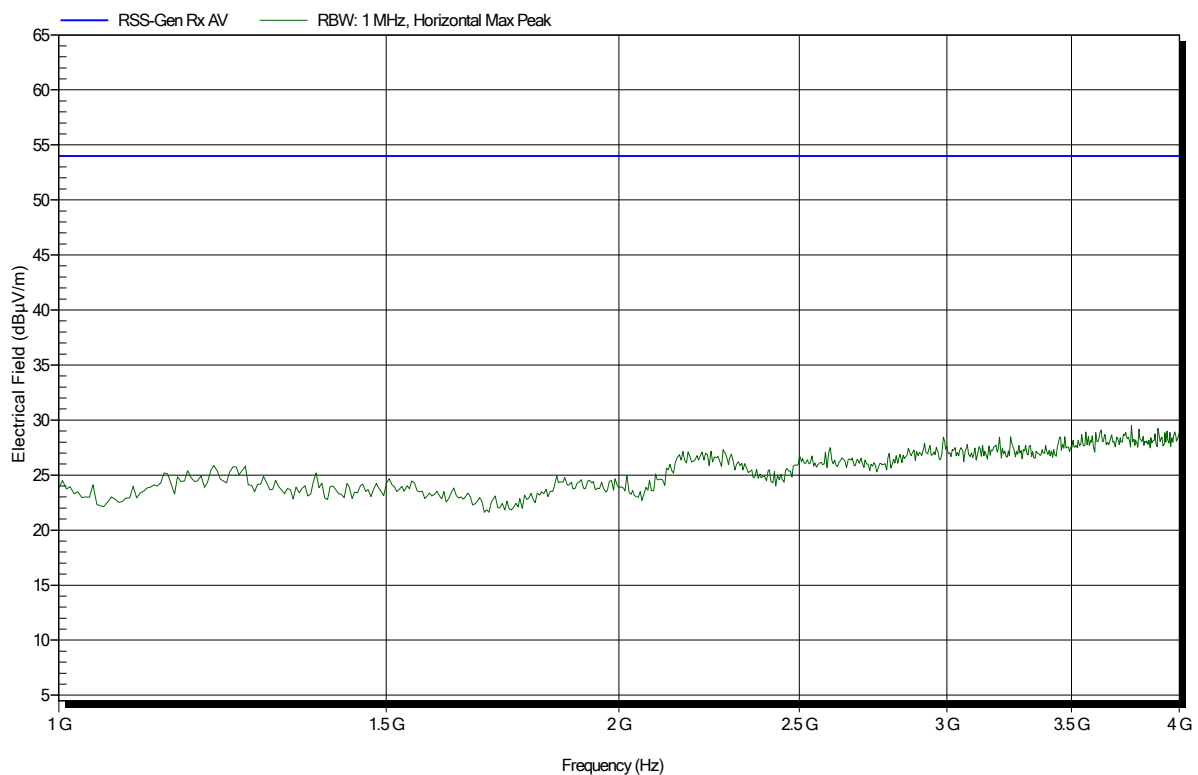


Spurious emissions according to ISSED RSS-247 Issue 2 (February 2017)

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement distance: 1 m converted to 3m
Mode: RX; Test Sample ID 27955
Test Date: 2020-02-19
Note:

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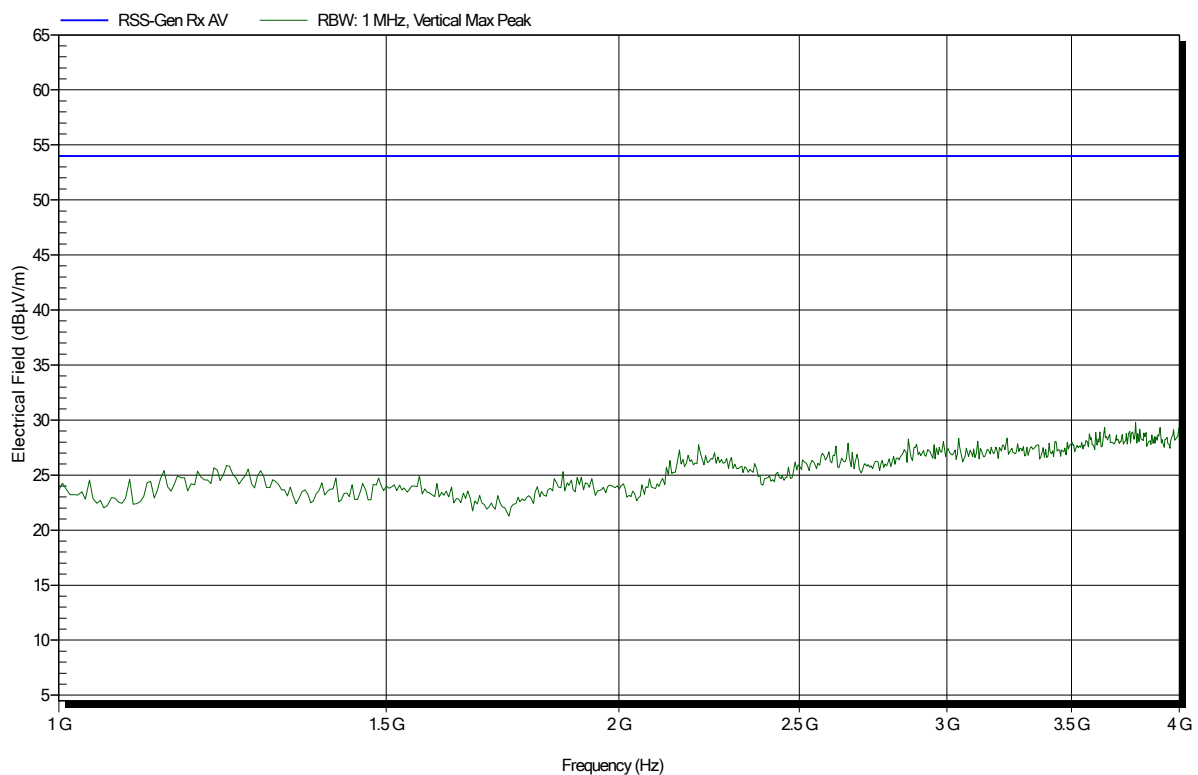


Spurious emissions according to ISSED RSS-247 Issue 2 (February 2017)

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
Test Site: Eurofins Product Service GmbH
Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Schwarzbeck BBHA 9120D, Vertical
Measurement distance: 1 m converted to 3m
Mode: RX; Test Sample ID 27955
Test Date: 2020-02-19
Note:

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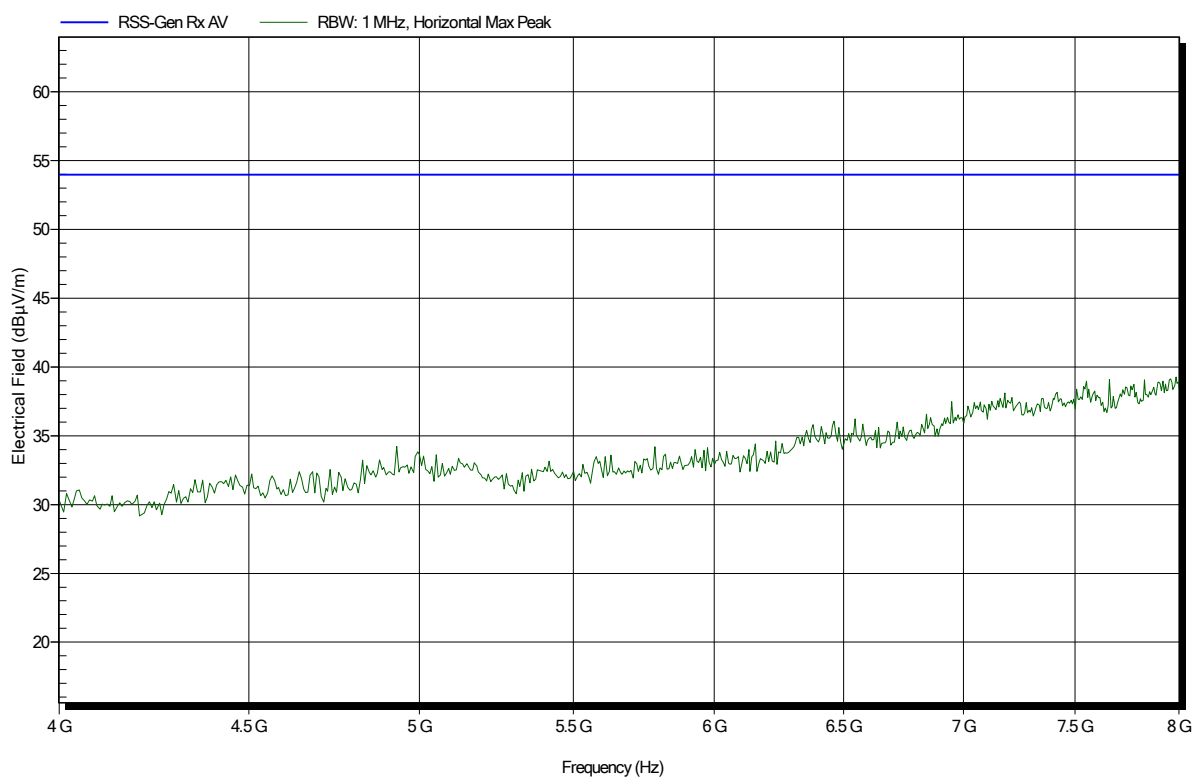


Spurious emissions according to ISCED RSS-247 Issue 2 (February 2017)

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Applicant: Webfleet Solutions B.V.
 EUT Name: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Site: Eurofins Product Service GmbH
 Operator: Abdullah Al Jamal
 Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: RX; Test Sample ID 27955
 Test Date: 2020-02-19
 Note:

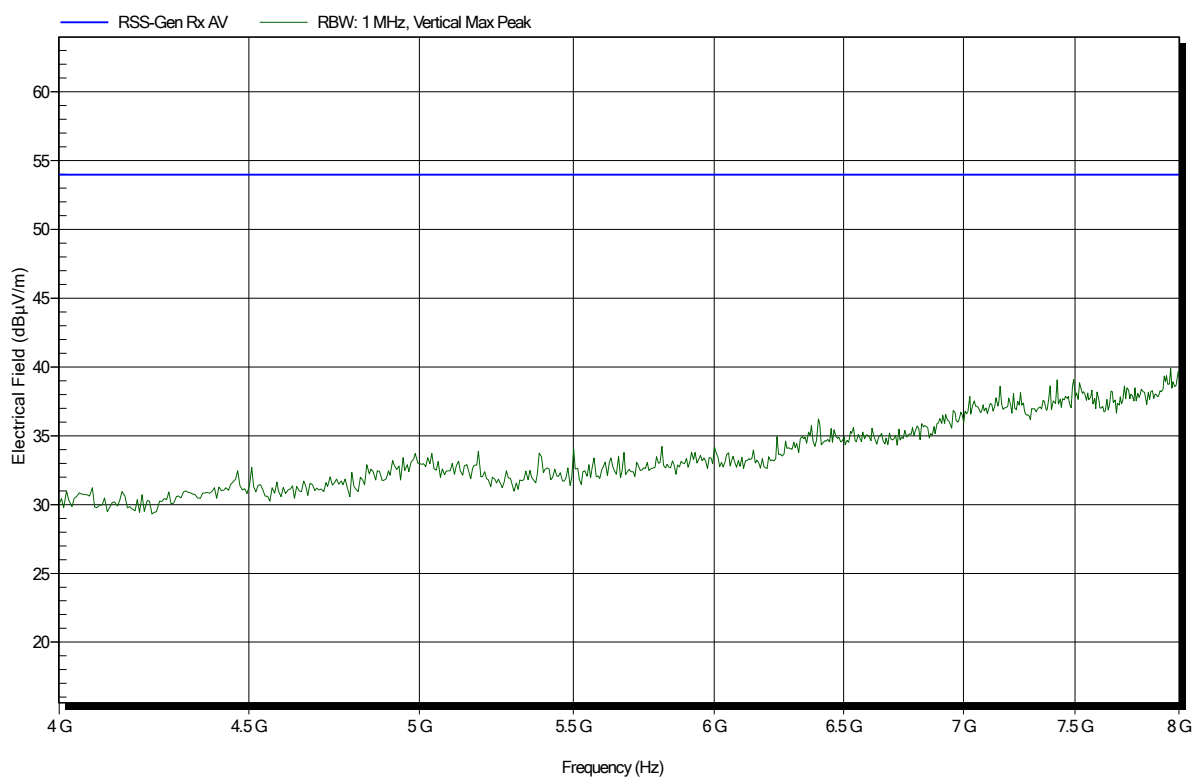
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Spurious emissions according to ISED RSS-247 Issue 2 (February 2017)

Project number: G0M-2001-8775
 Applicant: Webfleet Solutions B.V.
 EUT Name: Telematic Device with GSM+LTE+GNSS+BT
 Model: L0740
 Test Site: Eurofins Product Service GmbH
 Operator: Abdullah Al Jamal
 Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: RX; Test Sample ID 27955
 Test Date: 2020-02-19
 Note:

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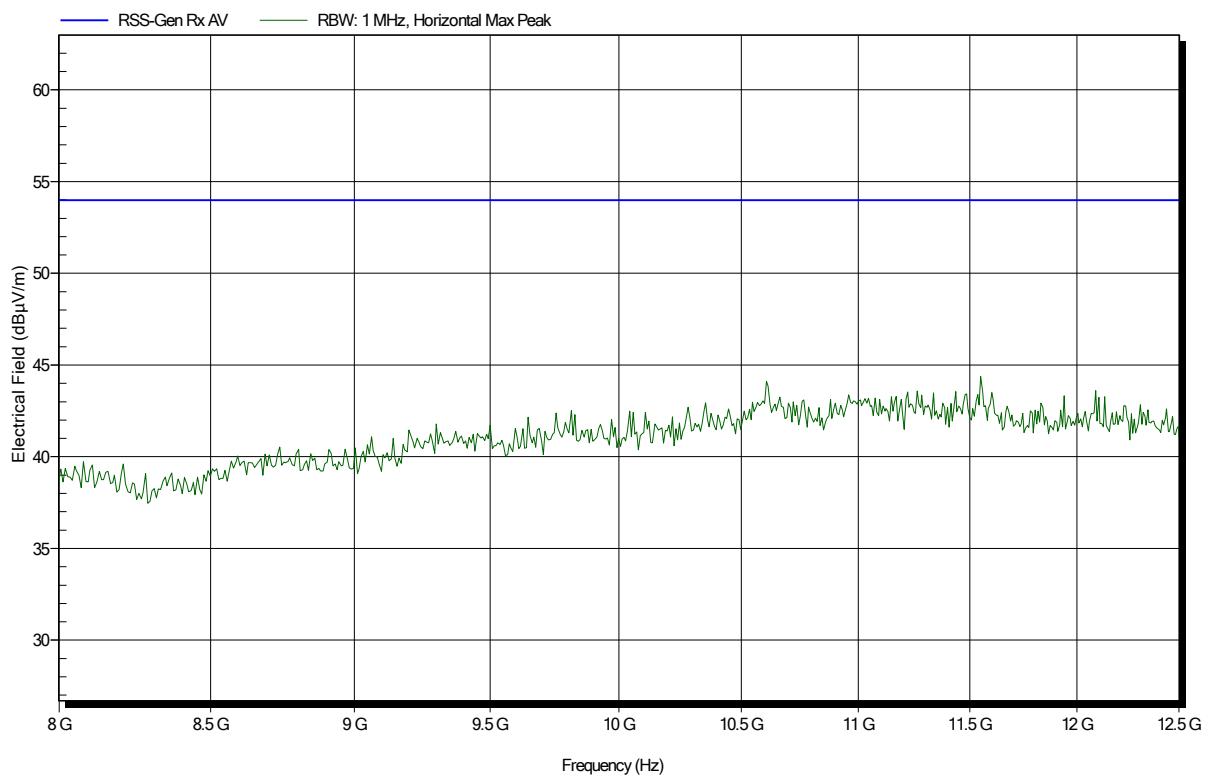


Spurious emissions according to ISSED RSS-247 Issue 2 (February 2017)

Project number: G0M-2001-8775

Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
Model: L0740
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Operator: Abdullah Al Jamal
Test Conditions: Tnom: 22.9°C, Vnom: 24.0 VDC
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement distance: 1 m converted to 3m
Mode: RX; Test Sample ID 27955
Test Date: 2020-02-19
Note:

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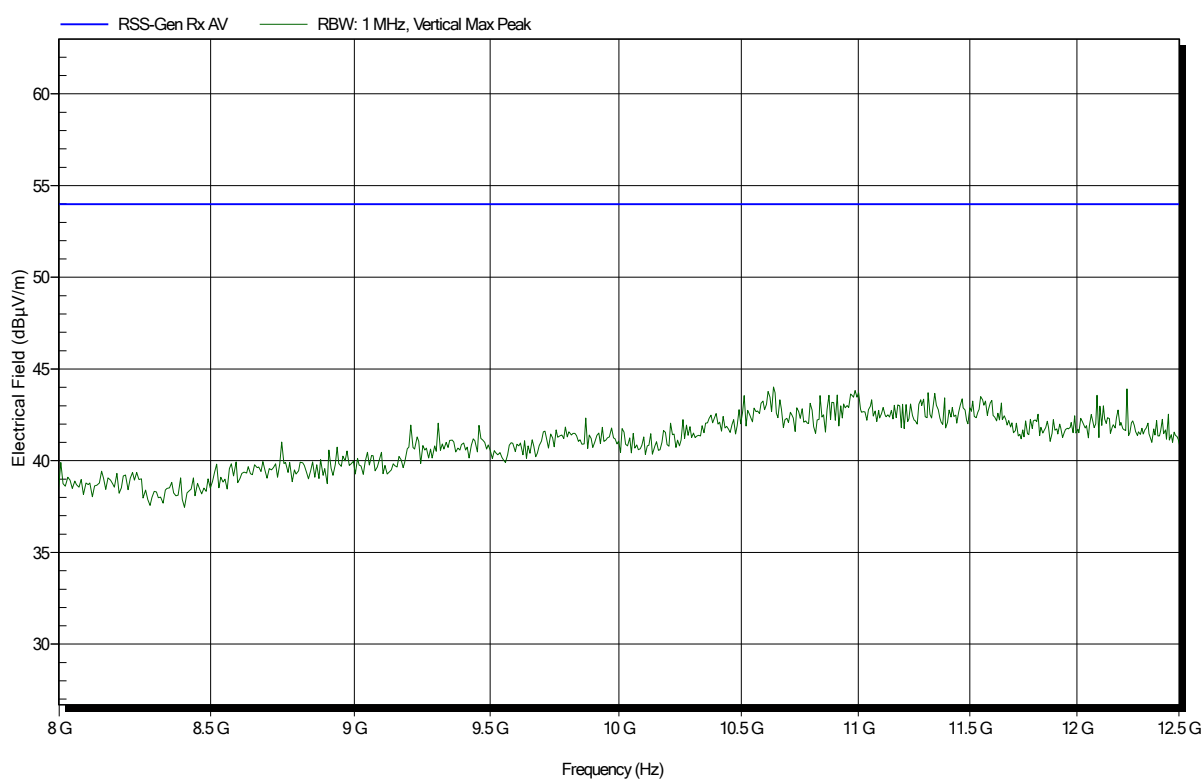


Spurious emissions according to ISCED RSS-247 Issue 2 (February 2017)

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Applicant: Webfleet Solutions B.V.
EUT Name: Telematic Device with GSM+LTE+GNSS+BT
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Antenna: Schwarzbeck BBHA 9120D, Vertical
Measurement distance: 1 m converted to 3m
Mode: RX; Test Sample ID 27955
Test Date: 2020-02-19
Note:

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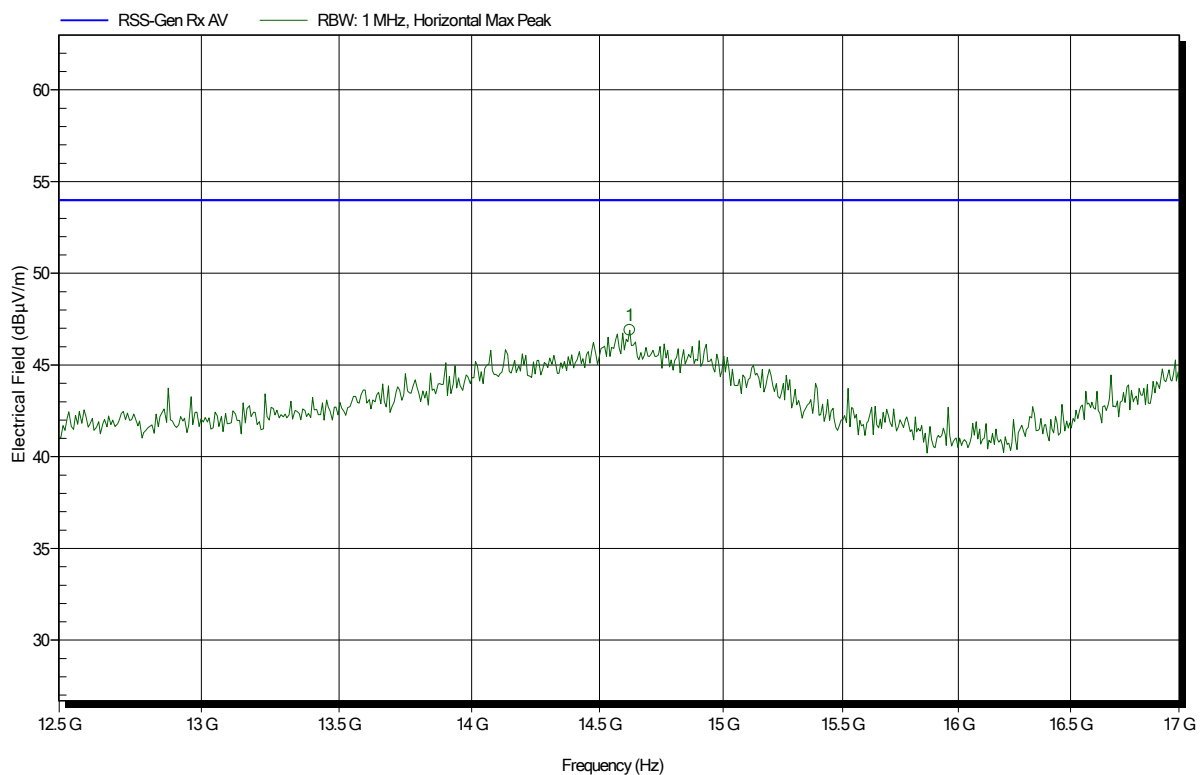


Spurious emissions according to ISED RSS-247 Issue 2 (February 2017)

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EUT Name: Telematic Device with GSM+LTE+GNSS+BT
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Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement distance: 1 m converted to 3m
Mode: RX; Test Sample ID 27955
Test Date: 2020-02-19
Note:

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Frequency	Peak	Peak Limit	Peak Difference	Status
14.62 GHz	46.9 dBµV/m	53.98 dBµV/m	-7.08 dB	Pass

Spurious emissions according to ISCED RSS-247 Issue 2 (February 2017)

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Note:

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