

RADIO REPORT FCC 47 CFR Part 15C ISED Canada RSS-247 Digital transmission systems operating within the 2400.0 MHz - 2483.5 MHz band	
Report Reference No	G0M-2002-8799-TFC247BL-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	Robert Bosch Tool Corporation
Address	1800 W. Central Road 60056 Mount Prospect, IL USA
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	Laser Rangefinder
Model(s)	GLM165-27CG
Additional Model(s)	None
Brand Name(s)	BOSCH
Hardware Version(s)	Main PCBA v0.6 (BOM 08.06.20); CF340 PCBA v11 (BOM 03.01.20)
Software Version(s)	MCU 0.5.2, Bluetooth 1.6.0
FCC ID	TXTGLM1652XX
IC	909H-GLM1652XX
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	2020-10-22	
Report:		
Compiled by	Charline Graf	
Tested by (+ signature) (Responsible for Test)	Wilfried Treffke	
Tested by (+ signature)	Charline Graf	
Approved by (+ signature) (Deputy Head of Lab)	Toralf Jahn	
Date of Issue	2020-12-21	
Total number of pages	82	
General Remarks:		
<p>The test results presented in this report relate only to the object tested.</p> <p>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.</p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p>		

Additional Comments:	
Additional variants of AC/DC adaptor and Li-Ion pack have been declared by the manufacturer. The listed AC/DC adaptor and Li-Ion pack were not tested, evaluated or assessed in no way.	
AC/DC-Adaptor	Model: 1600A0143H
	Vendor: Bosch
	Input: 100-120V AC
	Output: 5V DC
Li-Ion pack	Part Number: 1607A350N9
	Model: BA3.7V1.0AhA
Emission testing were performed for the supply variant 2 (Li-ion pack 1607A350N9) which is supposed as "worst case scenario" with reference to G0M-2002-8796-TFC247BLE-V01.	

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2020-12-21	Initial Release	

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
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

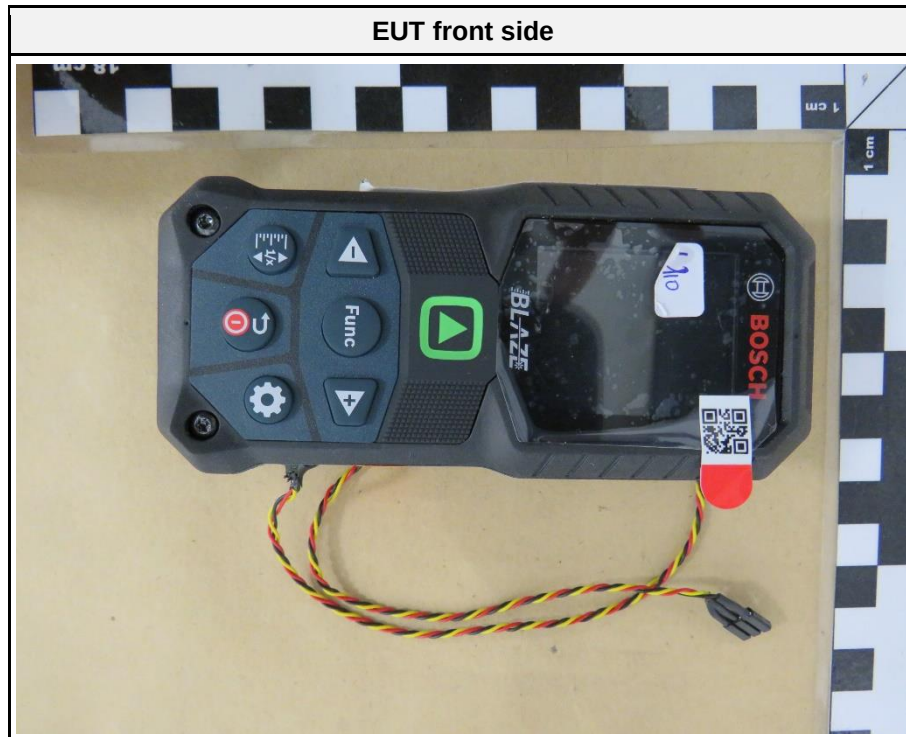
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1 Equipment (Test Item) Under Test

Description	Laser Rangefinder	
Model	GLM165-27CG	
Additional Model(s)	None	
Brand Name(s)	BOSCH	
Serial Number(s)	030600119	
Hardware Version(s)	Main PCBA v0.6 (BOM 08.06.20); CF340 PCBA v11 (BOM 03.01.20)	
Software Version(s)	MCU 0.5.2, Bluetooth 1.6.0	
PMN	GLM165-27CG	
HVIN	GLM165-27CG	
FVIN	1.6.0	
HMN	-/-	
FCC ID	TXTGLM1652XX	
IC	909H-GLM1652XX	
Equipment type	End Product	
Radio type	Transceiver	
Assigned frequency bands	2400.0 MHz - 2483.5 MHz	
Radio technology	Bluetooth LE 4.2	
Bluetooth Specification	LE 1M PHY	Yes
	LE 2M PHY	No
	LE Coded PHY S=8 (125 kbit)	No
	LE Coded PHY S=2 (500 kbit)	No
	Stable Modulation Index - Transmitter	No
	Stable Modulation Index - Receiver	No
Modulation	GFSK	
Number of antenna ports	1	
Antenna	Type	Integrated antenna (2.4 GHz Inverted F PCB antenna according to Texas Instruments design SWRU120D)
	Model	SWRU120D
	Manufacturer	unspecified
	Gain	3.3 dBi (declared by applicant)
Supply Voltage 1*	V _{NOM}	3.0 VDC (alkaline battery 2x1.5V(AA))
Supply Voltage 2	V _{NOM}	3.7 VDC Li-Ion pack (1607A350N8 / BA3.7V1.0AhA)
Operating Temperature	T _{NOM}	25 °C
AC/DC-Adaptor	Model	2609120713
	Vendor	Bosch
	Input	100-240 VAC
	Output	5VDC / 1.0A
Manufacturer	Robert Bosch Power Tools GmbH	
	70538 Stuttgart Germany	
Comment: * additional power supply voltage which is not subject of the test report		

1.1 Photos – Equipment External



EUT left side



EUT right side



EUT top side



EUT bottom side



Li-ION pack back side



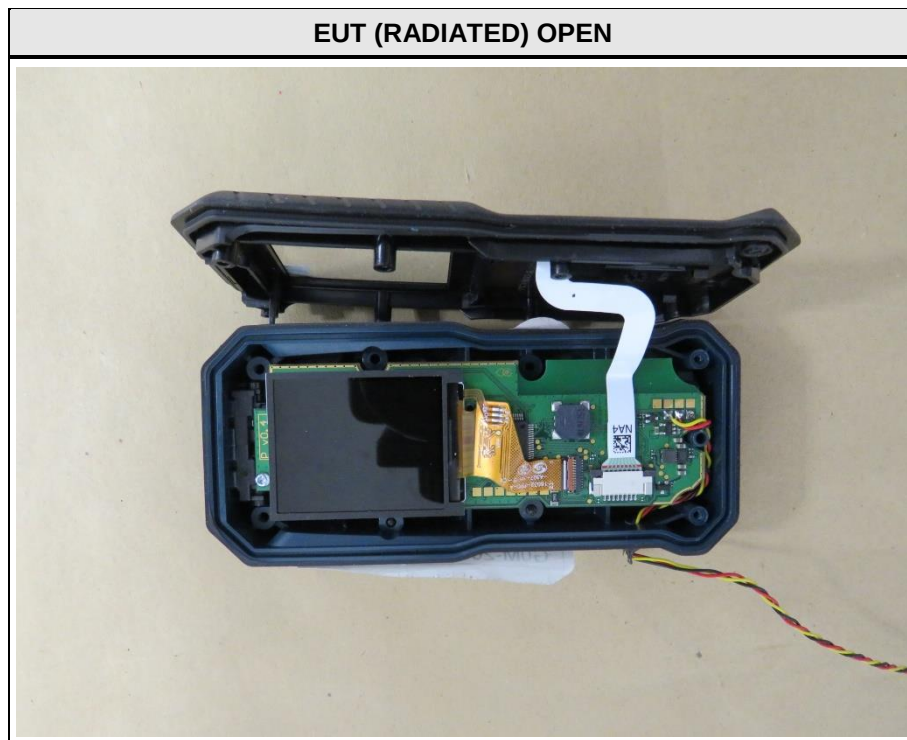
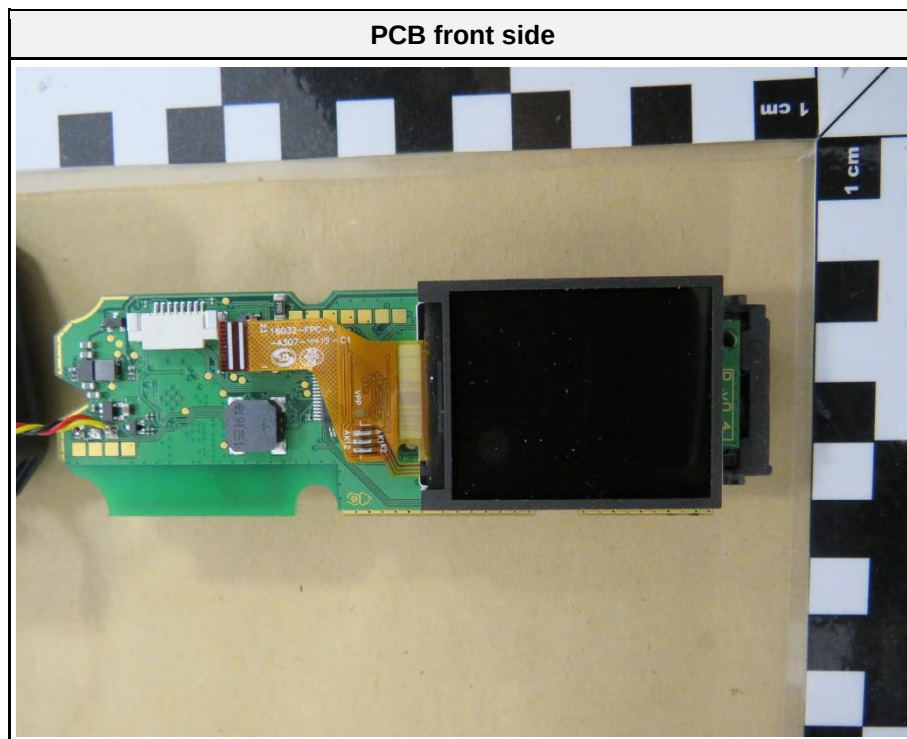
Li-ION pack front side

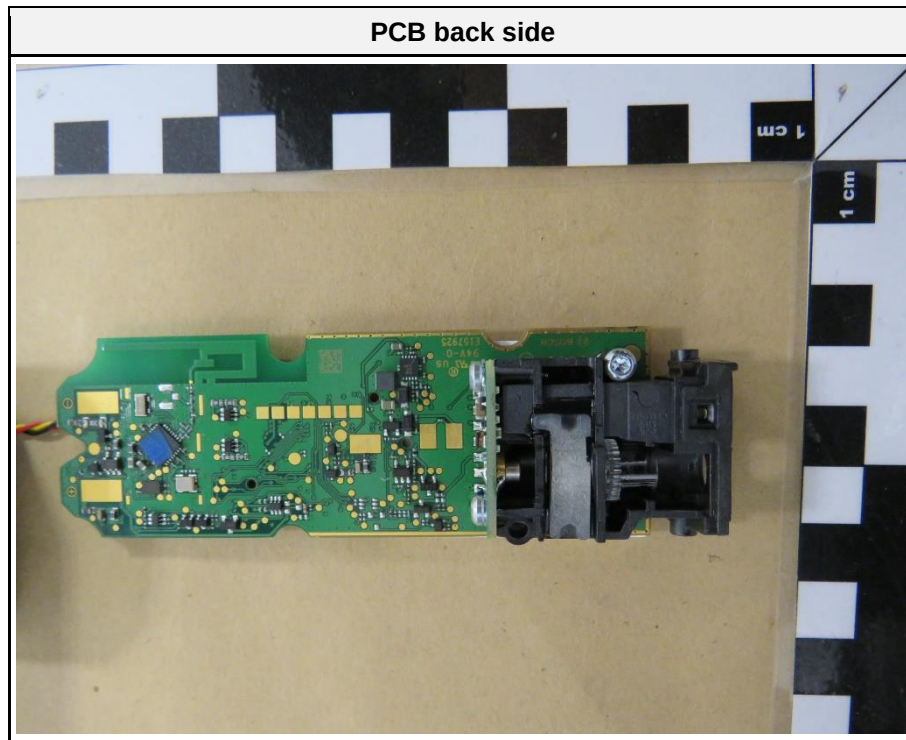


Li-ION pack charging port

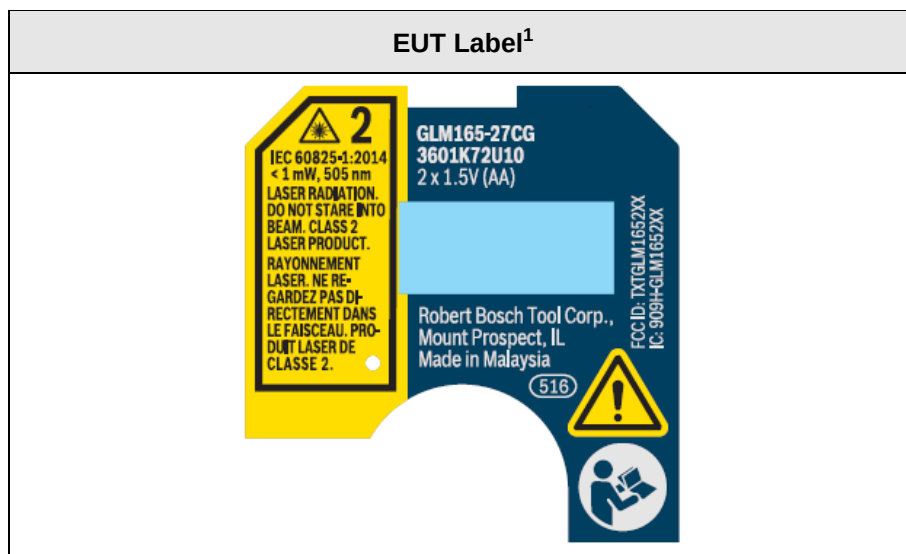
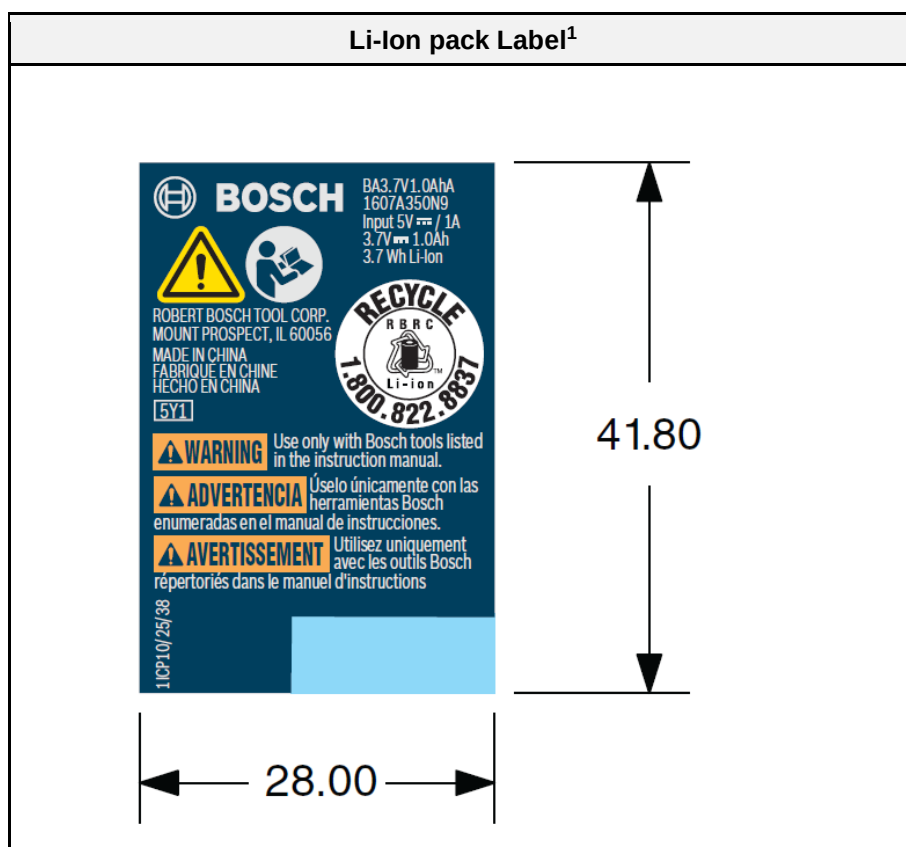


1.2 Photos – Equipment Internal



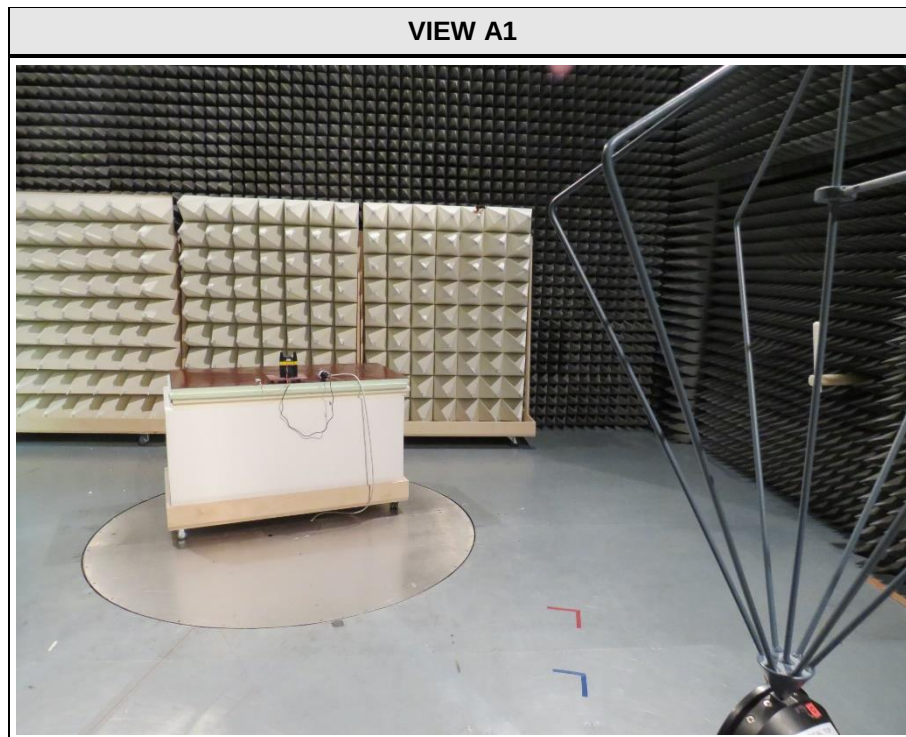
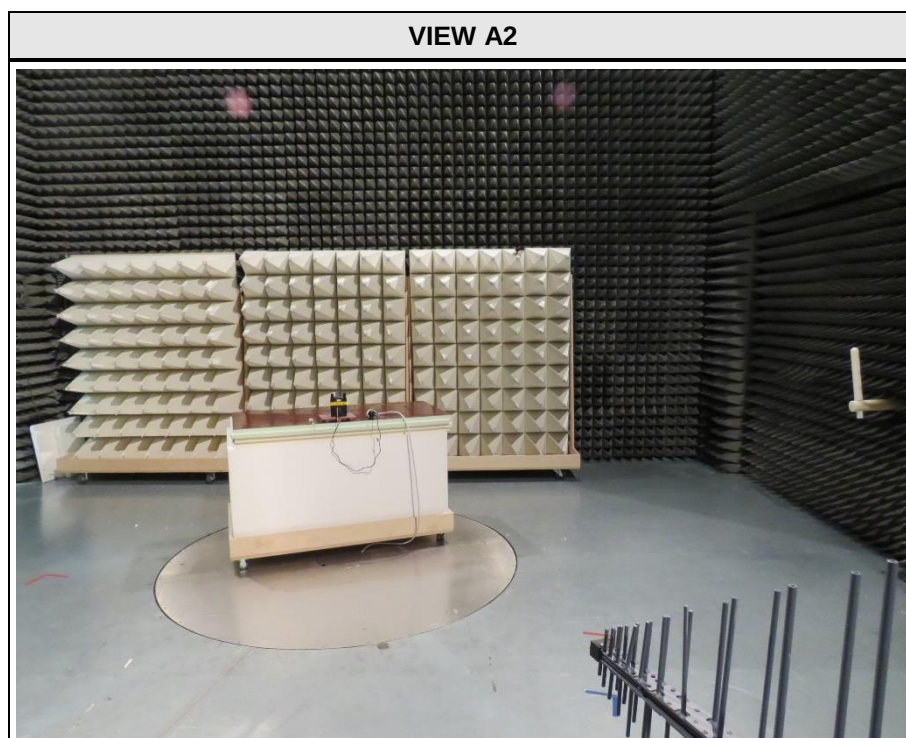


1.3 Photos – Equipment Label

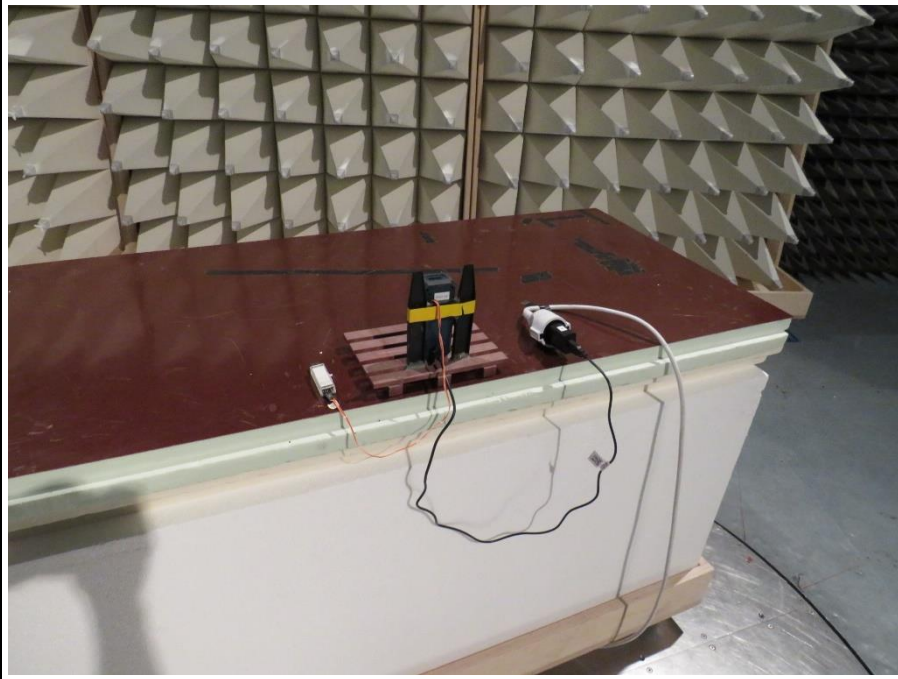


¹Provided by applicant.

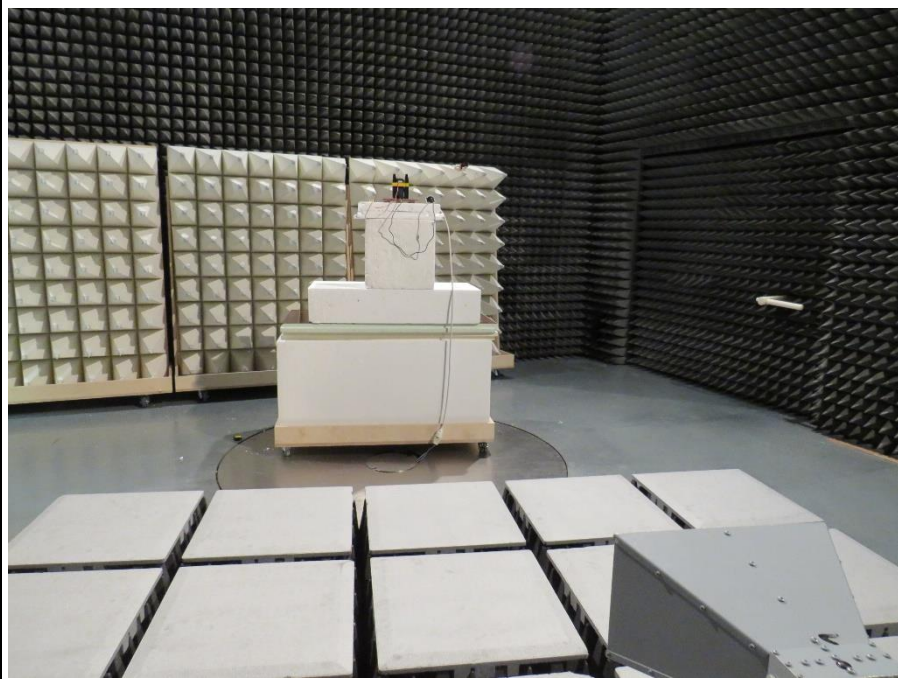
1.4 Photos – Test Setup



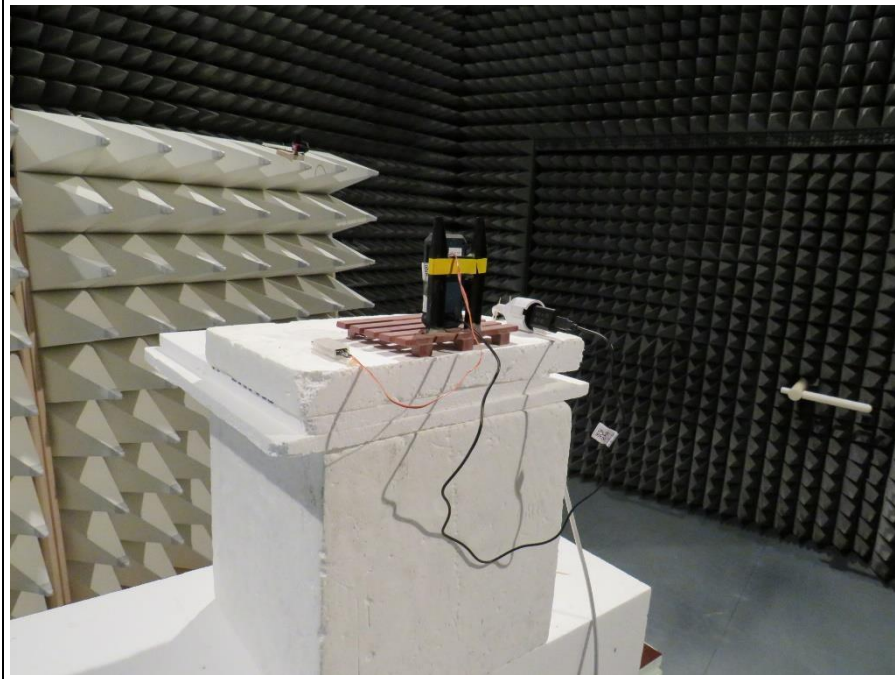
VIEW A3



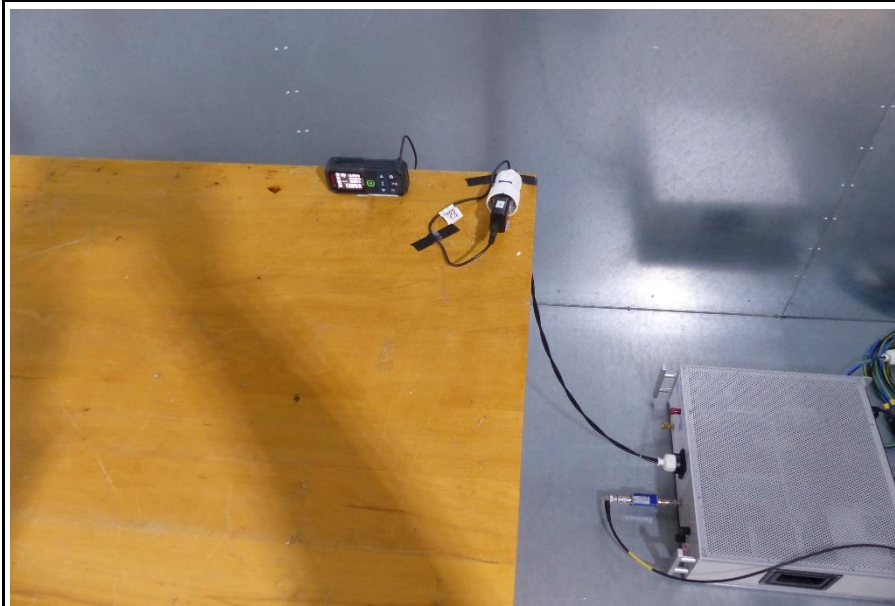
VIEW A4



VIEW A5



VIEW C1



1.5 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE1	Notebook	Lenovo	L470	Serial number PF0VH6SK
AE2	Power Supply AC Adapter	Lenovo	ADLX65NCC3A	2015/07
AE3	USB Adapter	Bosch	2609120713	Test Sample ID 29606
CBL	USB-C	Bosch	1 600 A01 6A8	Customer support equipment
SFT	BlueC	CETECOM ICT Services	Version 0.1.0.3	Bluetooth Low Energy control software – control of individual test modes via <i>Bluetooth Direct Test Mode</i>
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment:				

1.6 Test Modes

Mode	Description
Mode 1*	Mode = Transmit (Tx) Modulation = GFSK Spreading = None Duty cycle = 64%
Mode 2*	Mode = Receive (Rx)
Comment: *EUT measures the distance continuously (Optical laser is permanent active)	

1.7 Test Frequencies

Designator	Mode	Channel	Frequency [MHz]
F1	Mode 1, Mode 2	0	2402
F2	Mode 1, Mode 2	19	2440
F3	Mode 1, Mode 2	39	2480

1.8 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)(2) ISED RSS-247, Issue 2 (section 5.2)	6 dB Bandwidth	ANSI C63.10-2013	N/T	
FCC § 15.247(b)(1) ISED RSS-247, Issue 2 (section 5.4)	Maximum peak conducted power	ANSI C63.10-2013	N/T	
FCC § 15.247(e) ISED RSS-247, Issue 2 (section 5.2)	Power spectral density	ANSI C63.10-2013	N/T	
FCC § 15.207 ISED RSS-247, Issue 2 (section 3.1)	AC power line conducted emissions	ANSI C63.10-2013	PASS	
FCC § 15.247(d) ISED RSS-247, Issue 2 (section 5.5)	Band edge compliance	ANSI C63.10-2013	N/T	
FCC § 15.247(d) ISED RSS-247, Issue 2 (section 5.5)	Conducted spurious emissions	ANSI C63.10-2013	N/T	
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:				

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 - AC powerline conducted emissions

3.1.1 Information

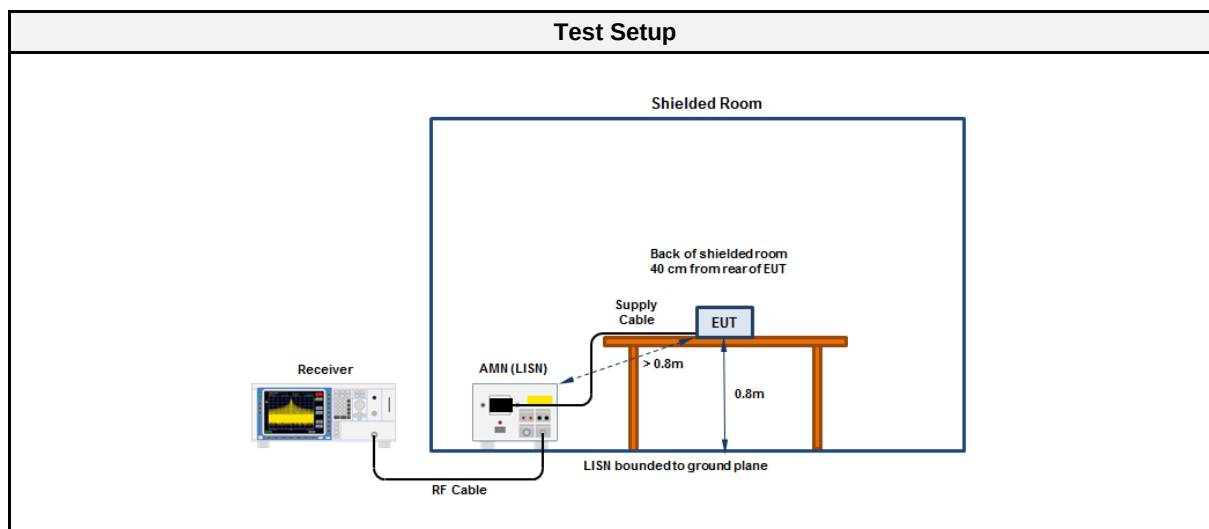
Test Information	
Reference	FCC § 15.207; ISED RSS-247, Issue 2 (section 3.1)
Measurement Method	ANSI C63.10 6.2
Measurement Uncertainty	± 3.82 dB
Operator	Charline Graf
Date	2020-11-09

3.1.2 Limits

Limits		
Frequency [MHz]	Quasi-Peak [dBμV]	Average [dBμV]
0.15 - 0.5	66 - 56*	56 - 46*
0.5 - 5	56	46
5 - 30	60	50

* Limit decreases linearly with the logarithm of the frequency

3.1.3 Setup



3.1.4 Equipment

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

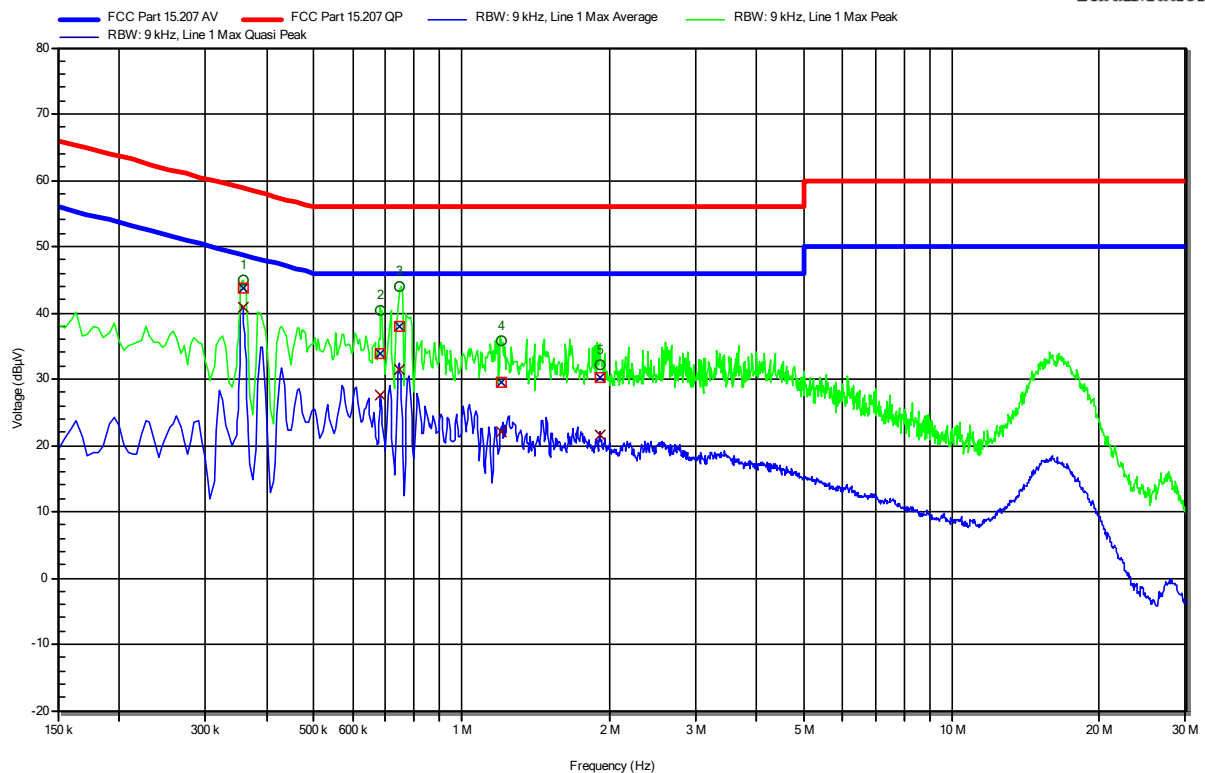
Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
EMI Test Receiver	R&S	ESR7	EF00943	2020-07	2021-07
Pulse Limiter	R&S	ESH3-Z2	EF01222	2020-07	2021-07
LISN	Schwarzbeck	NSLK 8127 RC	EF01592	2020-07	2021-07

Conducted emissions at the mains power port according to FCC part 15C

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Test Date: 2020-11-09
 Operating Conditions: ambient temperature: 22 °C
 power input: 120V AC
 LISN: Schwarzbeck NSLK 8127 RC L
 Operational Mode & EUT Configuration: BTLE, Channel 19, Data Length 37 Byte, PRBS9
 Applied to Port: USB

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RadiMation



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	357.45 kHz	43.66 dBµV	58.79 dBµV	-15.13 dB	Pass	Line 1
2	685.05 kHz	33.93 dBµV	56 dBµV	-22.07 dB	Pass	Line 1
3	748.95 kHz	37.98 dBµV	56 dBµV	-18.02 dB	Pass	Line 1
4	1.203 MHz	29.57 dBµV	56 dBµV	-26.43 dB	Pass	Line 1
5	1.911 MHz	30.22 dBµV	56 dBµV	-25.78 dB	Pass	Line 1

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	357.45 kHz	40.85 dBµV	48.79 dBµV	-7.94 dB	Pass	Line 1
2	685.05 kHz	27.62 dBµV	46 dBµV	-18.38 dB	Pass	Line 1
3	748.95 kHz	31.46 dBµV	46 dBµV	-14.54 dB	Pass	Line 1
4	1.203 MHz	22.12 dBµV	46 dBµV	-23.88 dB	Pass	Line 1
5	1.911 MHz	21.6 dBµV	46 dBµV	-24.4 dB	Pass	Line 1

Test Report No.: G0M-2002-8799-TFC247BL-V01

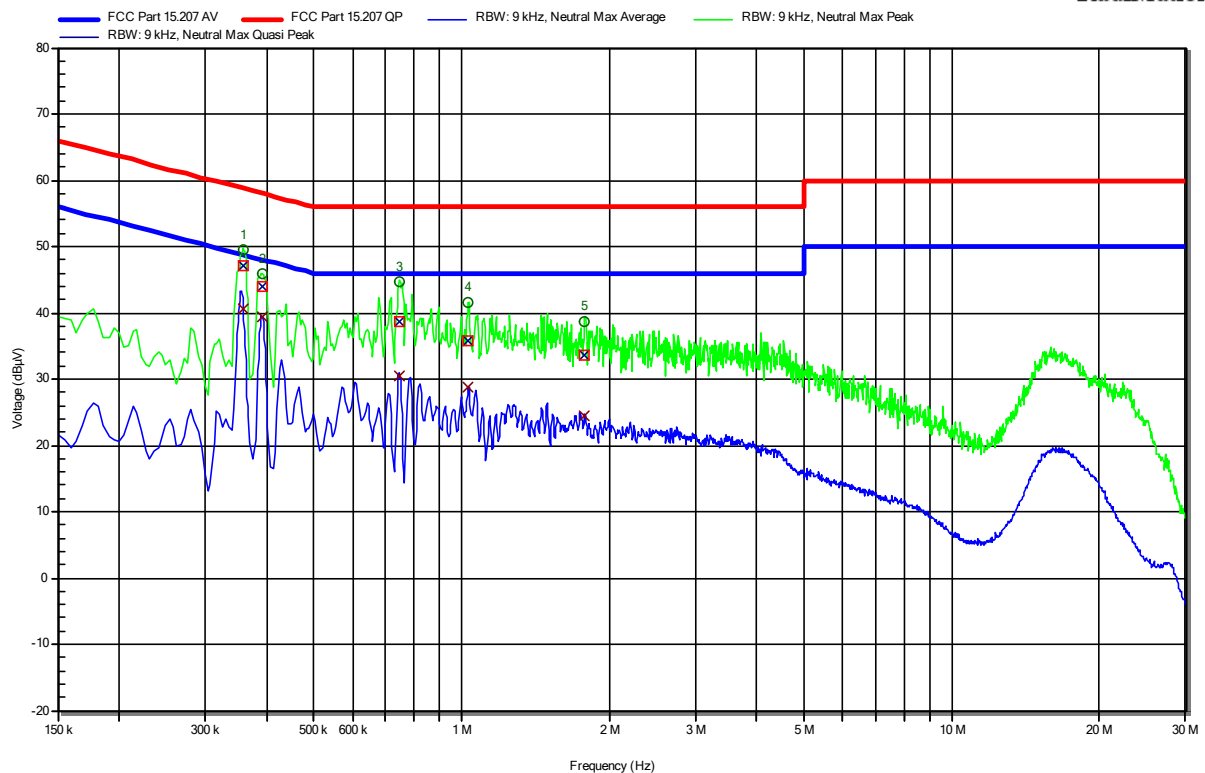
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted emissions at the mains power port according to FCC part 15C

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Test Date: 2020-11-09
 Operating Conditions: ambient temperature: 22 °C
 power input: 120V AC
 LISN: Schwarzbeck NSLK 8127 RC N
 Operational Mode & EUT Configuration: BTLE, Channel 19, Data Length 37 Byte, PRBS9
 Applied to Port: USB

Index 9

RadiMation



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	358.35 kHz	47.15 dBμV	58.77 dBμV	-11.62 dB	Pass	Neutral
2	391.2 kHz	44 dBμV	58.04 dBμV	-14.04 dB	Pass	Neutral
3	747.6 kHz	38.67 dBμV	56 dBμV	-17.33 dB	Pass	Neutral
4	1.032 MHz	35.9 dBμV	56 dBμV	-20.1 dB	Pass	Neutral
5	1.782 MHz	33.67 dBμV	56 dBμV	-22.33 dB	Pass	Neutral

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	358.35 kHz	40.52 dBμV	48.77 dBμV	-8.24 dB	Pass	Neutral
2	391.2 kHz	39.49 dBμV	48.04 dBμV	-8.55 dB	Pass	Neutral
3	747.6 kHz	30.45 dBμV	46 dBμV	-15.55 dB	Pass	Neutral
4	1.032 MHz	28.7 dBμV	46 dBμV	-17.3 dB	Pass	Neutral
5	1.782 MHz	24.47 dBμV	46 dBμV	-21.53 dB	Pass	Neutral

Test Report No.: G0M-2002-8799-TFC247BL-V01

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

3.2 Test Conditions and Results - Transmitter radiated emissions

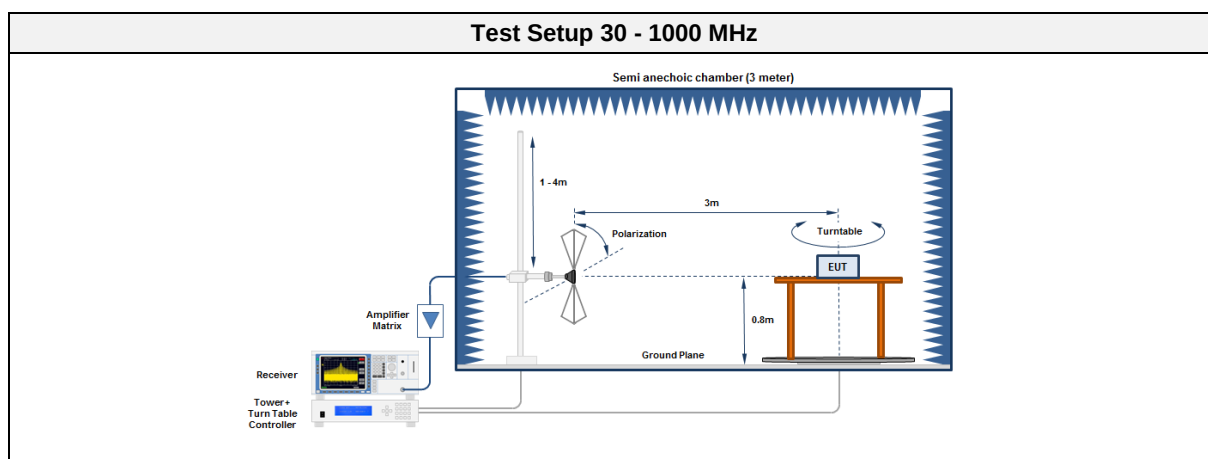
3.2.1 Information

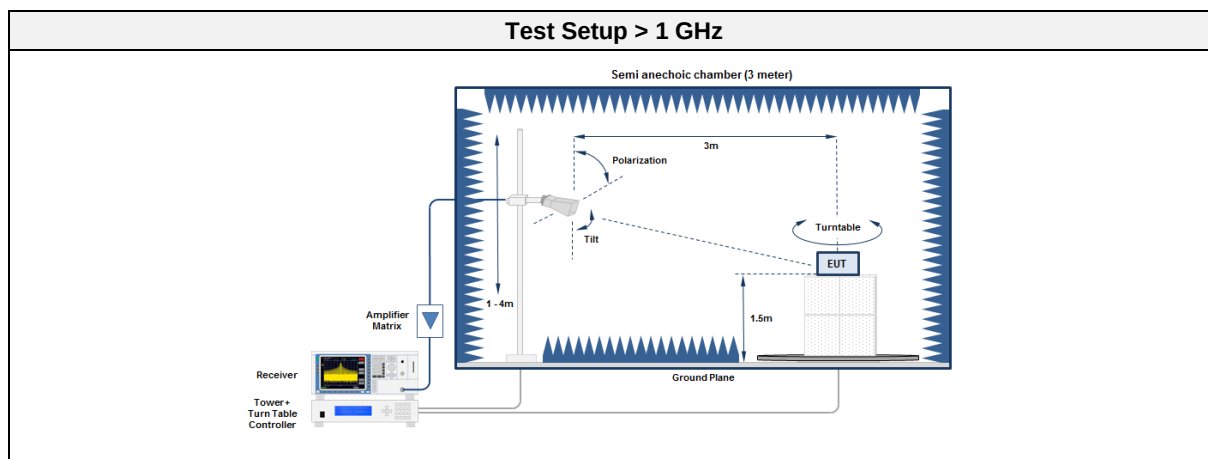
Test Information	
Reference	FCC § 15.247(d); FCC § 15.209; ISSED RSS-Gen, Issue 5 (section 6.13)
Measurement Method	ANSI C63.10 6.4, 6.5, 6.6, 11.12
Measurement Uncertainty	± 5.95 dB
Operator	Charline Graf
Date	2020-11-09

3.2.2 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

3.2.3 Setup





3.2.4 Equipment

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

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	2020-06	2021-06
Antenna	R&S	HK 116	EF00030	2019-04	2022-04
Antenna	R&S	HL 223	EF00212	2019-05	2022-05

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	2020-06	2021-06
Antenna	Schwarzbeck	BBHA 9120D	EF01159	2018-12	2020-12
Antenna	Amplifier Research	AT4560	EF01152	2020-11	2021-11

3.2.5 Procedure

Test Procedure 30 - 1000 MHz	
<ol style="list-style-type: none"> 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

3.2.6 Results

Test Results						
Channel	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
0	2389.9	59.94	pk	ver	74.00	-14.06
0	2389.9	44.59	avg	ver	54.00	-09.41
0	2390	60.32	pk	hor	74.00	-13.68
0	2390	43.83	avg	hor	54.00	-10.17
0	4801	50.95	pk	hor	74.00	-23.05
0	4801	49.70	pk	ver	74.00	-24.30
0	7207	56.95	pk	hor	74.00	-17.05
0	7207	54.49	pk	ver	74.00	-19.51
19	2400	46.46	pk	hor	74.00	-27.54
19	2400	45.40	pk	ver	74.00	-28.60
19	2483.5	44.45	pk	hor	74.00	-29.55
19	2483.5	45.96	pk	ver	74.00	-28.04
19	4878	47.32	pk	hor	74.00	-26.68
19	4962	47.03	pk	ver	74.00	-26.97
19	7441	52.83	pk	ver	74.00	-21.17
19	7319	56.05	pk	hor	74.00	-17.95
19	7319	47.38	avg	hor	54.00	-06.62
39	2483.5	68.45	pk	hor	74.00	-05.55
39	2483.5	43.83	avg	hor	54.00	-10.17
39	2483.6	66.97	pk	ver	74.00	-07.03
39	2483.6	44.59	avg	ver	54.00	-09.41
39	2500	51.07	pk	hor	74.00	-22.93
39	2500	50.99	pk	ver	74.00	-23.01
39	4959	50.37	pk	hor	74.00	-23.63
39	7439	54.93	pk	hor	74.00	-19.07
39	7439	44.37	avg	hor	54.00	-09.63

3.3 Test Conditions and Results - Receiver radiated emissions

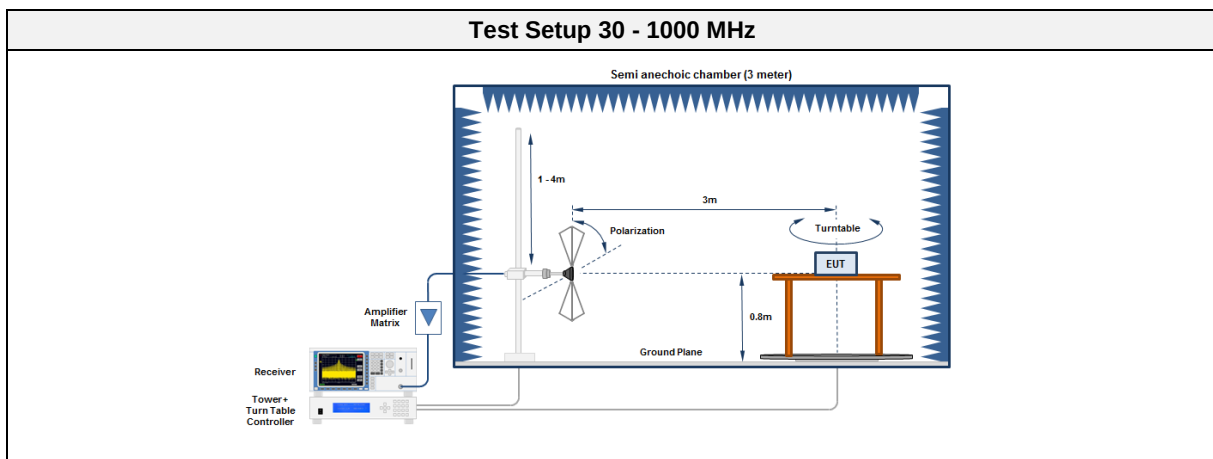
3.3.1 Information

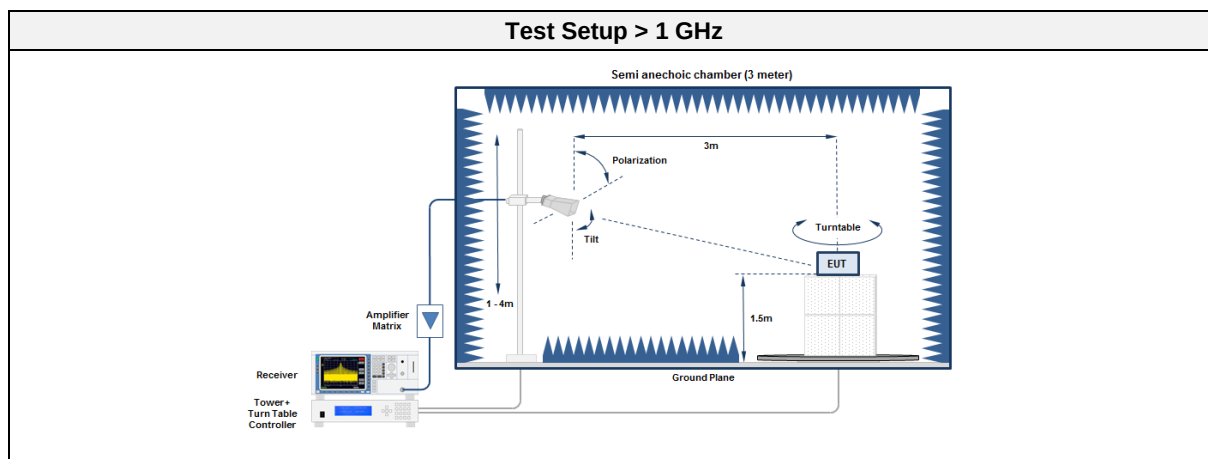
Test Information	
Reference	ISED RSS-247, Issue 2 (section 3.1)
Measurement Method	ANSI C63.10 6.5, 6.6, 11.12
Measurement Uncertainty	± 5.95 dB
Operator	Charline Graf
Date	2020-11-09

3.3.2 Limits

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

3.3.3 Setup





3.3.4 Equipment

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

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	2020-06	2021-06
Antenna	R&S	HK 116	EF00030	2019-04	2022-04
Antenna	R&S	HL 223	EF00212	2019-05	2022-05

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	2020-06	2021-06
Antenna	Schwarzbeck	BBHA 9120D	EF01159	2018-12	2020-12
Antenna	Amplifier Research	AT4560	EF01152	2020-11	2021-11

3.3.5 Procedure

Test Procedure 30 - 1000 MHz	
<ol style="list-style-type: none"> 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

3.3.6 Results

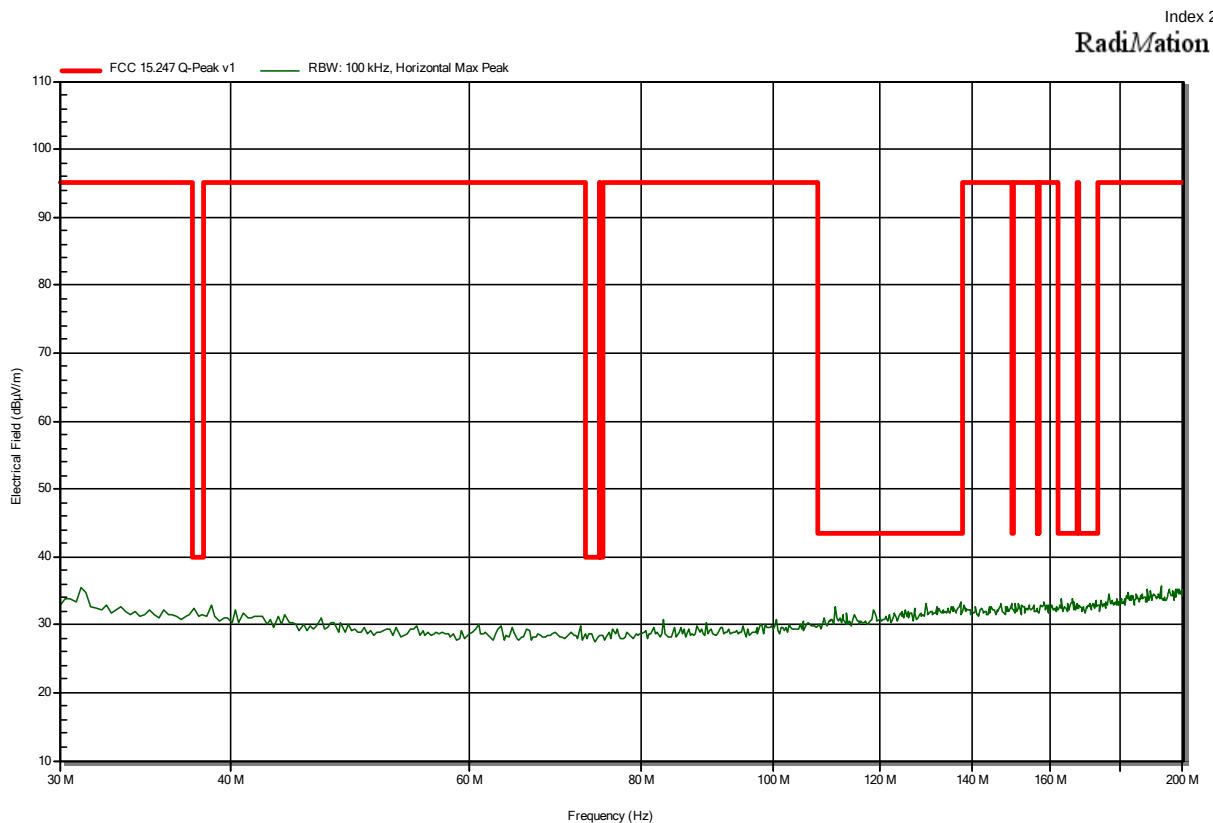
Test Results

Channel	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
19	31.332	36.81	pk	ver	40.00	-03.19
19	31.332	31.26	qpk	ver	40.00	-08.74

ANNEX A Transmitter spurious emissions

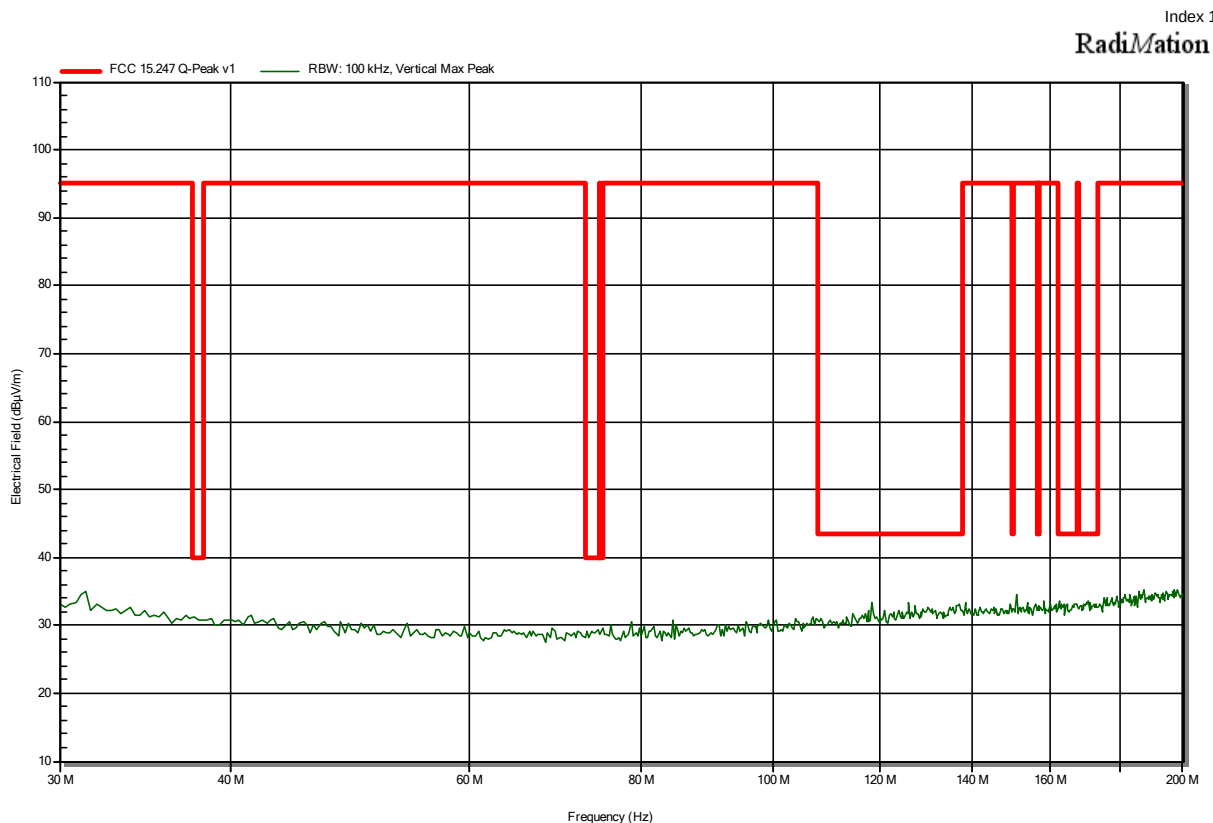
Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: Tx; BTLE, Channel 0, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side



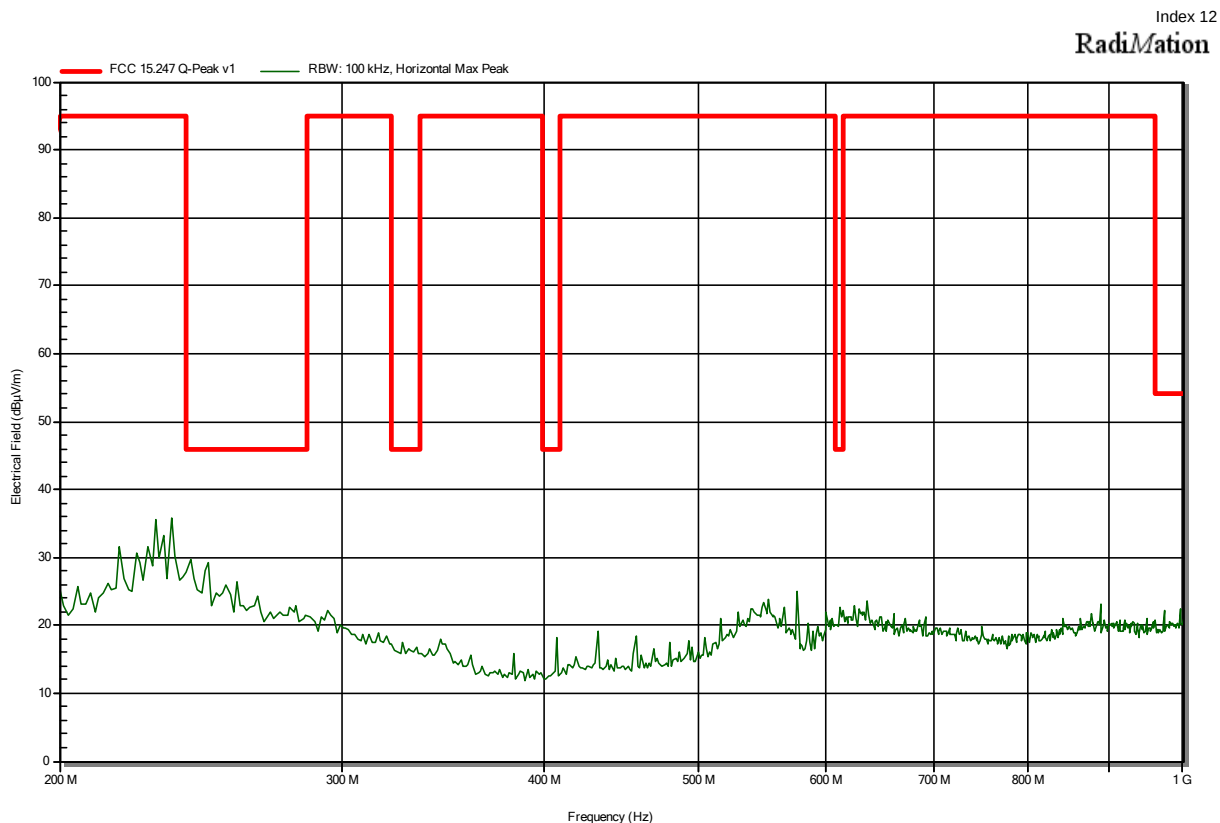
Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3 m
 Mode: Tx; BTLE, Channel 0, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side



Radiated Spurious Emissions according to FCC 47 CFR 15.247

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 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: Tx; BTLE, Channel 0, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side

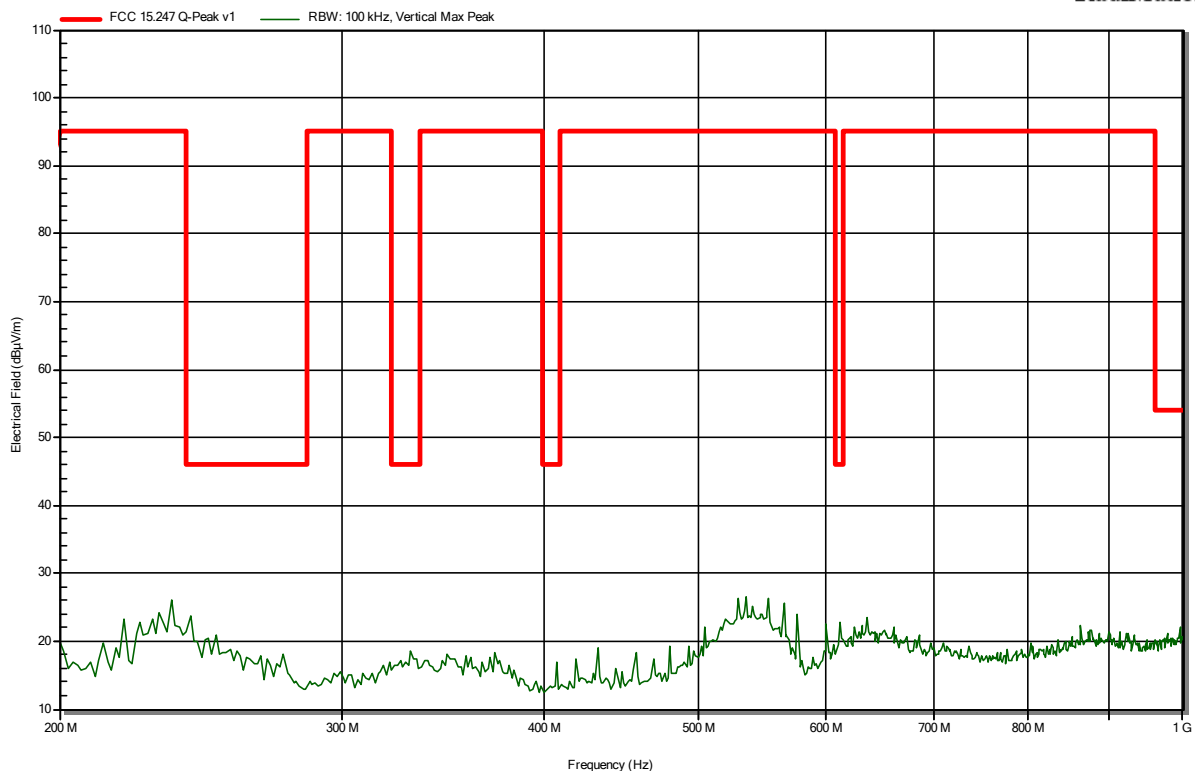


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Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: Tx; BTLE, Channel 0, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side

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RadiMation

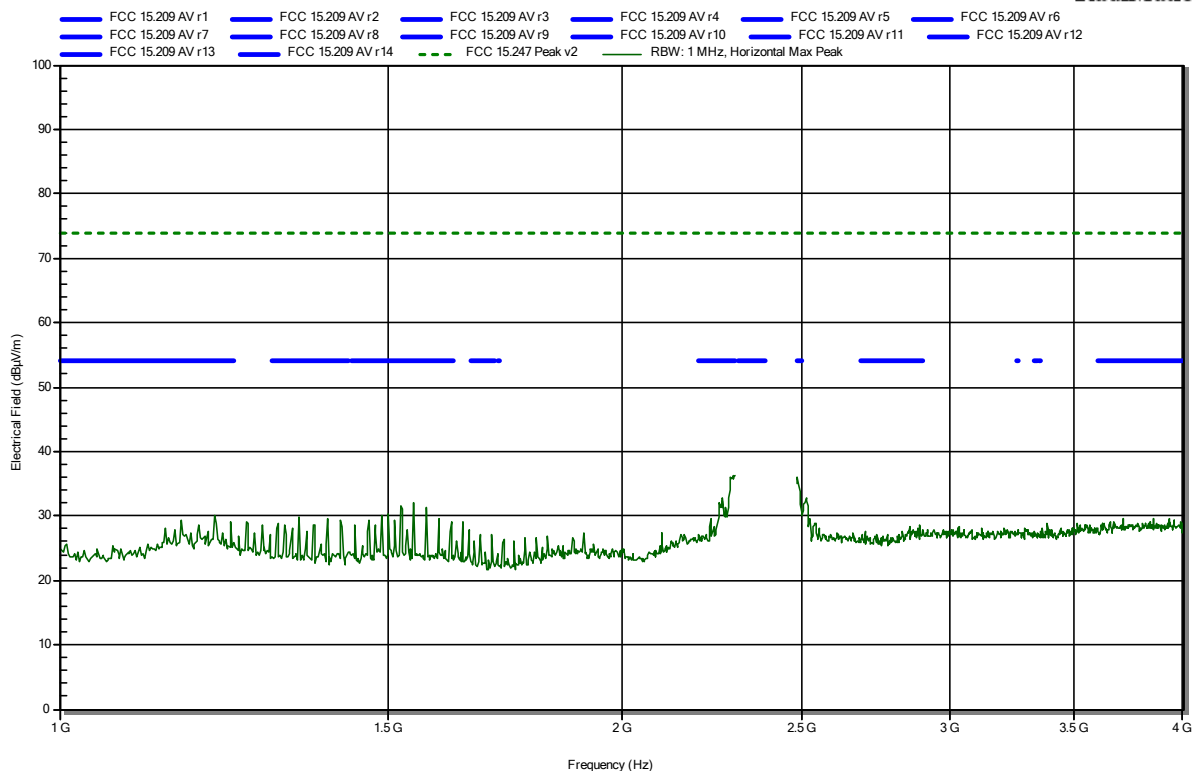


Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 0, PRSB9
 Test Date: 2020-11-10
 Note: EUT on side

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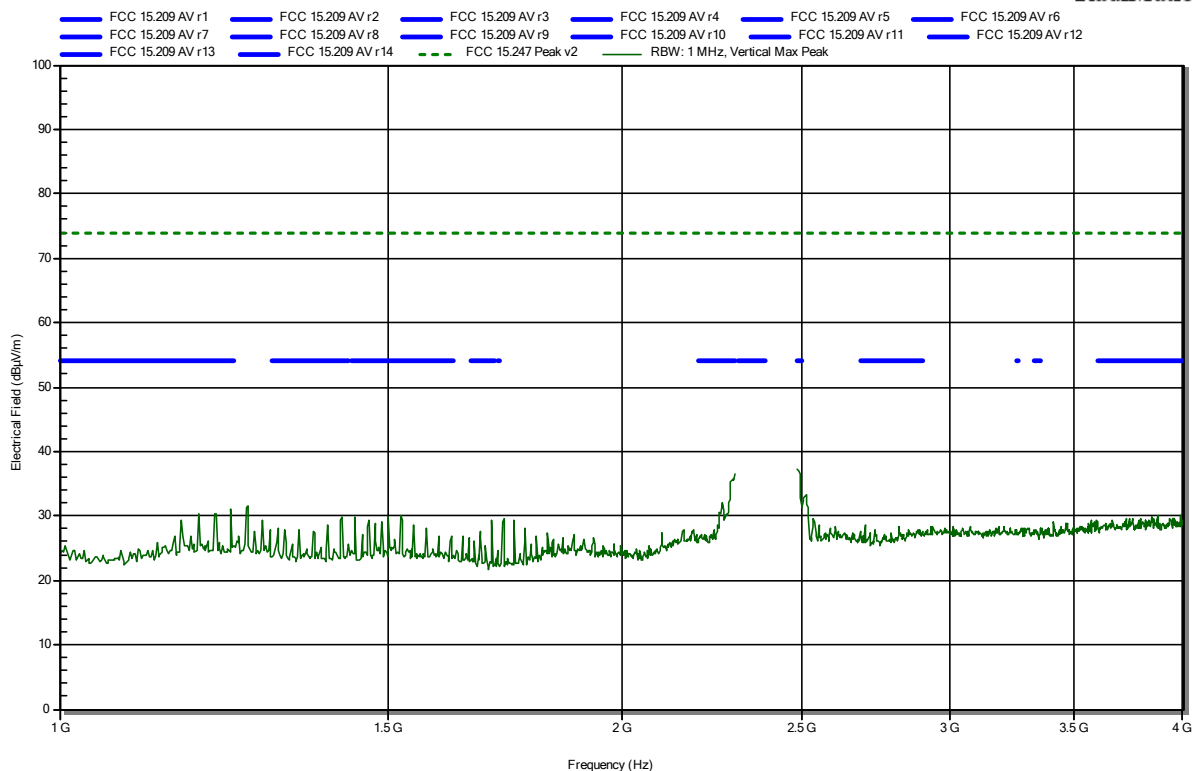


Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 0, PRSB9
 Test Date: 2020-11-10
 Note: EUT on side

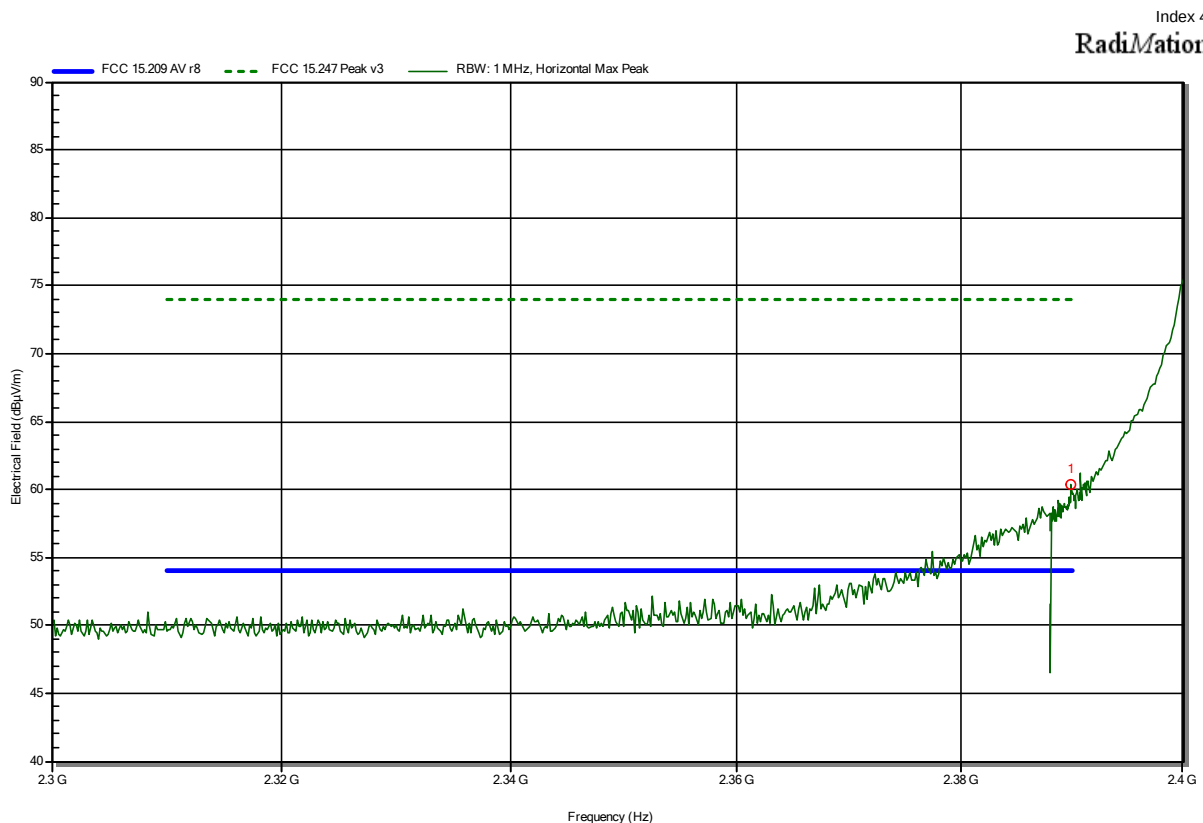
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Radiated Spurious Emissions according to FCC 47 CFR 15.247

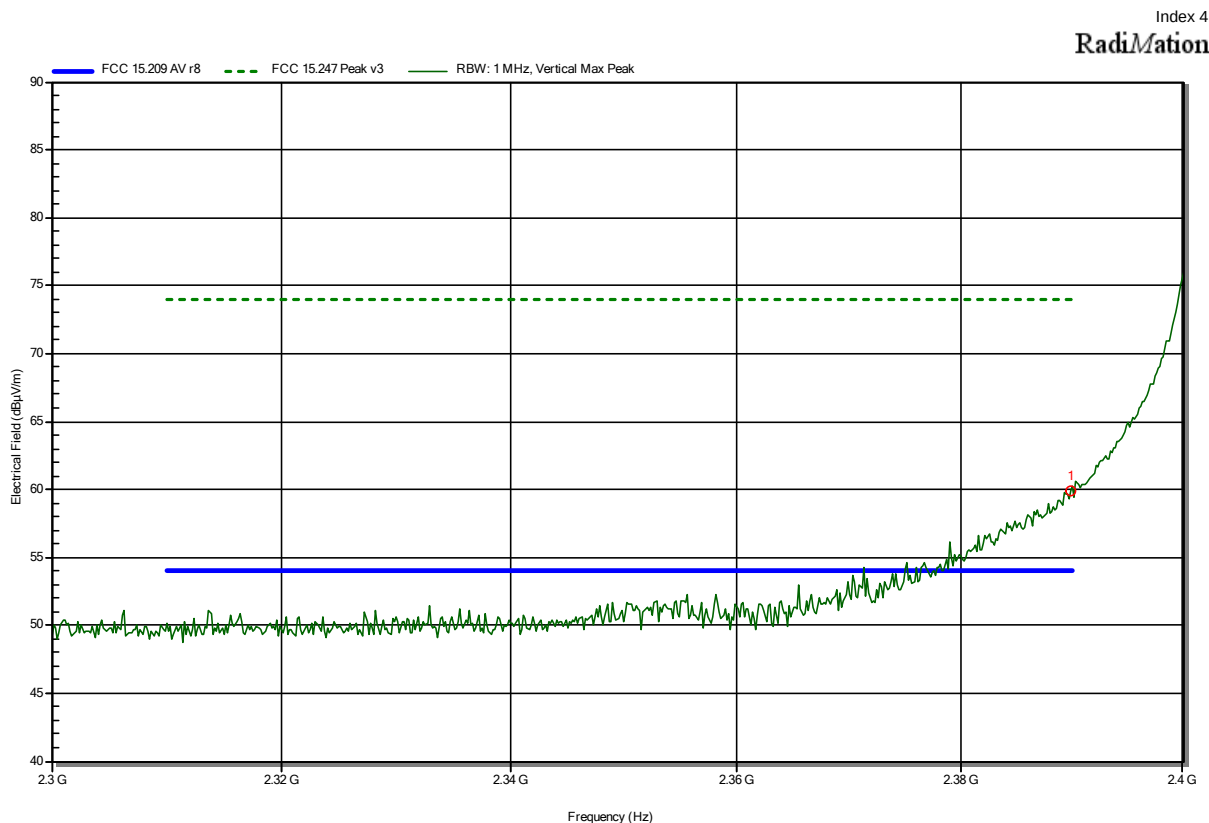
Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 0, PRSB9
 Test Date: 2020-11-10
 Note: EUT on side, lower band-edge



Frequency 2.39 GHz	Peak 60.32 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -13.68 dB	Peak Status Pass
Frequency 2.39 GHz	Average 43.83 dBµV/m	Average Limit 54 dBµV/m	Average Difference -10.17 dB	Average Status Pass

Radiated Spurious Emissions according to FCC 47 CFR 15.247

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 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 0, PRSB9
 Test Date: 2020-11-10
 Note: EUT on side, lower band-edge



Frequency 2.3899 GHz	Peak 59.94 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -14.06 dB	Peak Status Pass
Frequency 2.39 GHz	Average 44.59 dBµV/m	Average Limit 54 dBµV/m	Average Difference -09.41 dB	Average Status Pass

Test Report No.: G0M-2002-8799-TFC247BL-V01

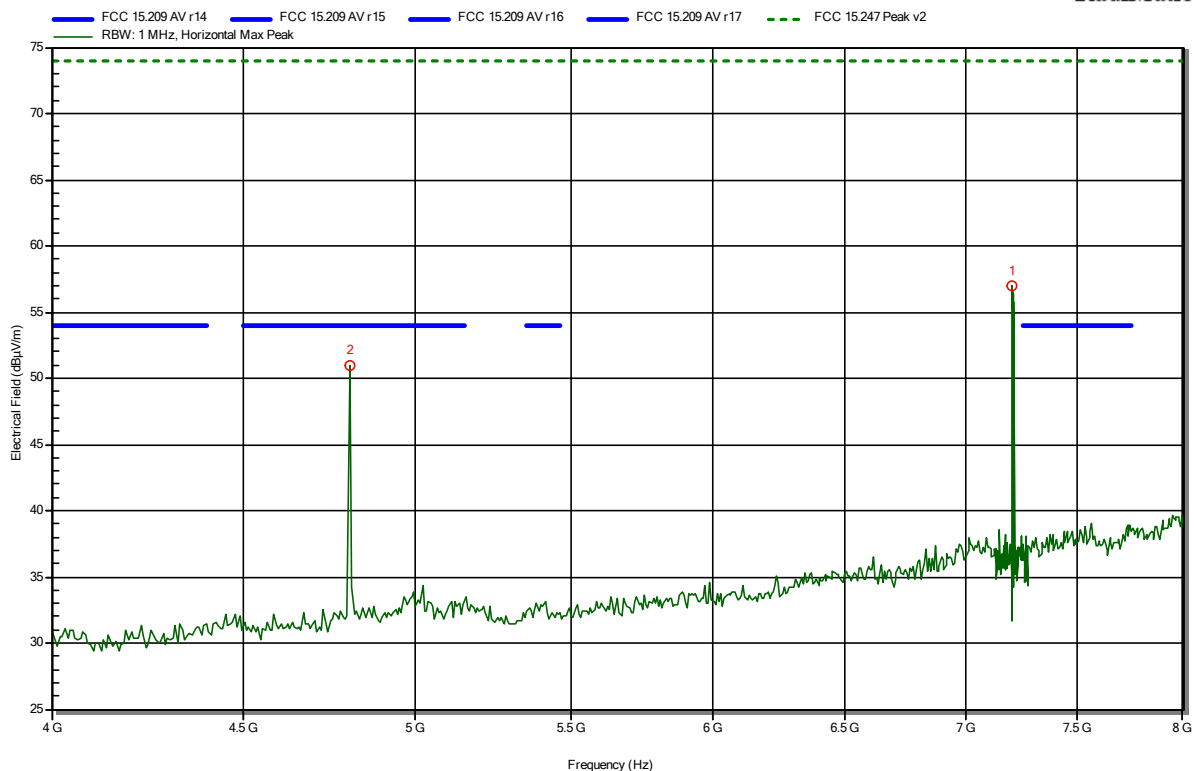
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
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 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 0, PRSB9
 Test Date: 2020-11-10
 Note: EUT on side

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RadiMation



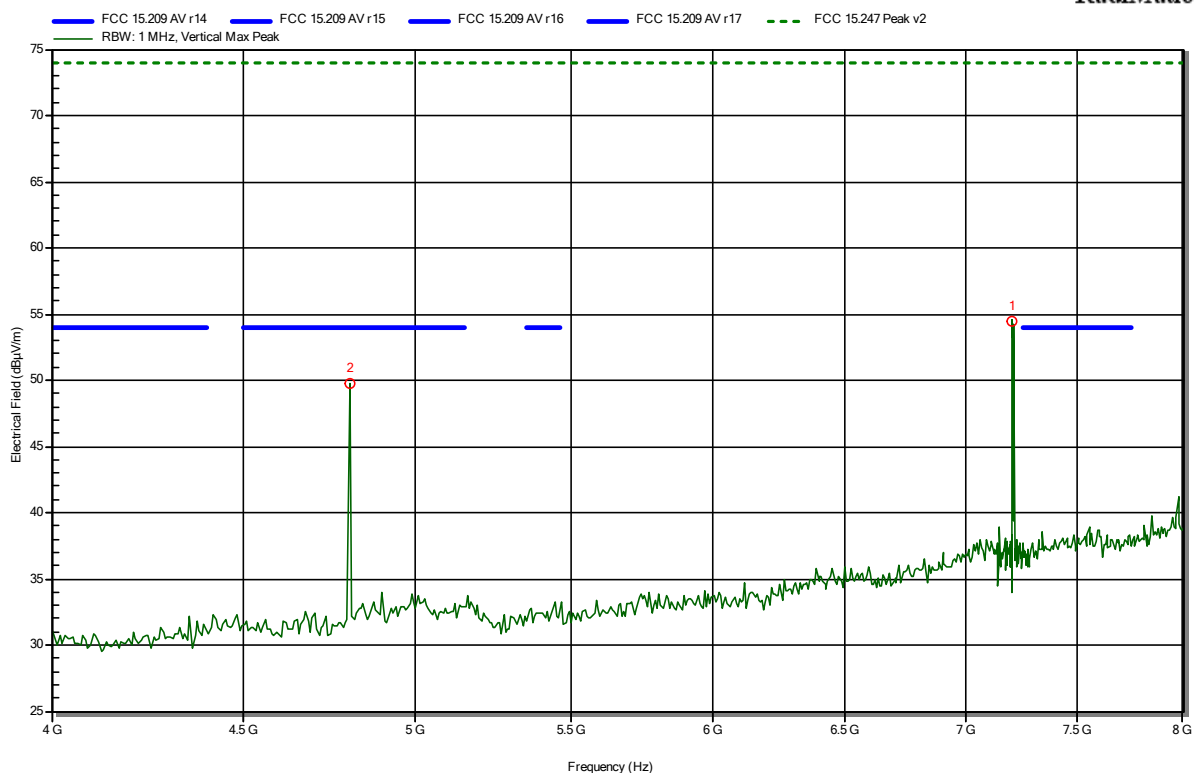
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.801 GHz	50.95 dBµV/m	74 dBµV/m	-23.05 dB	Pass
7.207 GHz	56.95 dBµV/m	74 dBµV/m	-17.05 dB	Pass

Radiated Spurious Emissions according to FCC 47 CFR 15.247

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 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 0, PRSB9
 Test Date: 2020-11-10
 Note: EUT on side

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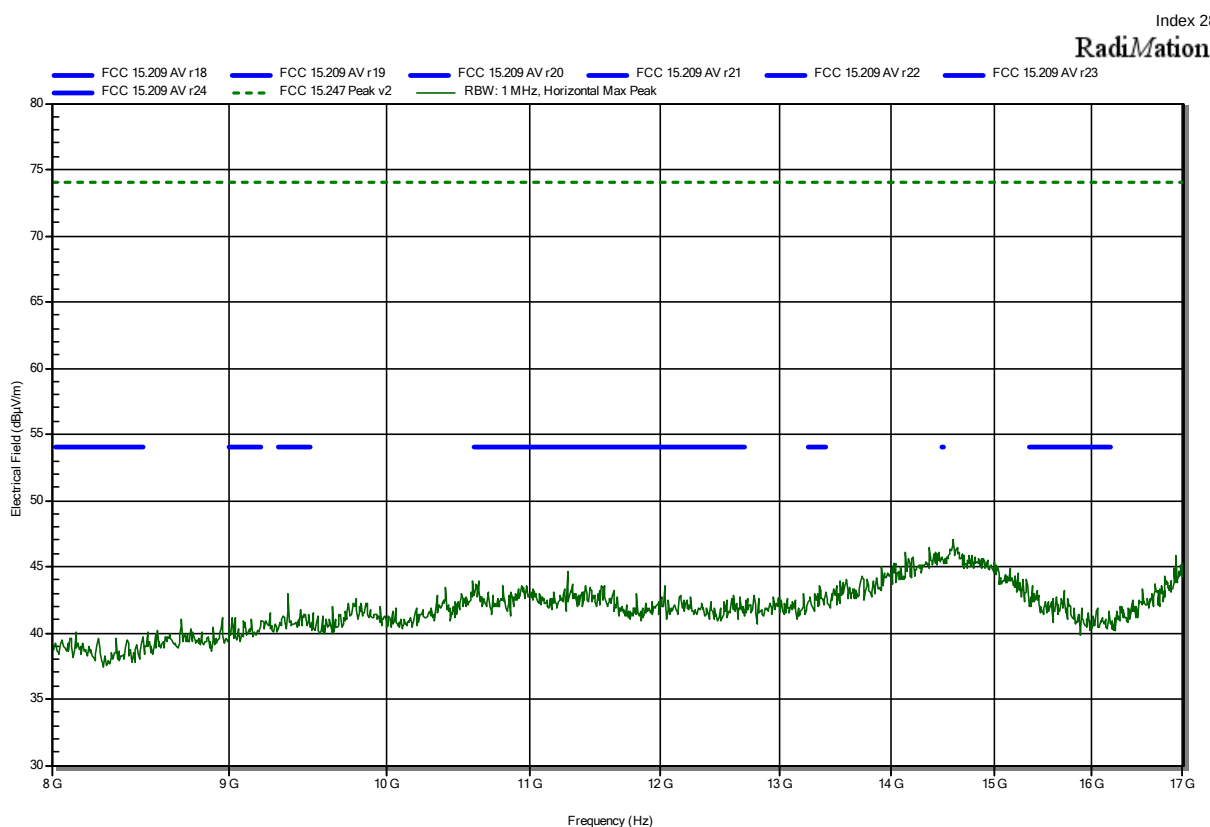
RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.801 GHz	49.7 dBμV/m	74 dBμV/m	-24.3 dB	Pass
7.207 GHz	54.49 dBμV/m	74 dBμV/m	-19.51 dB	Pass

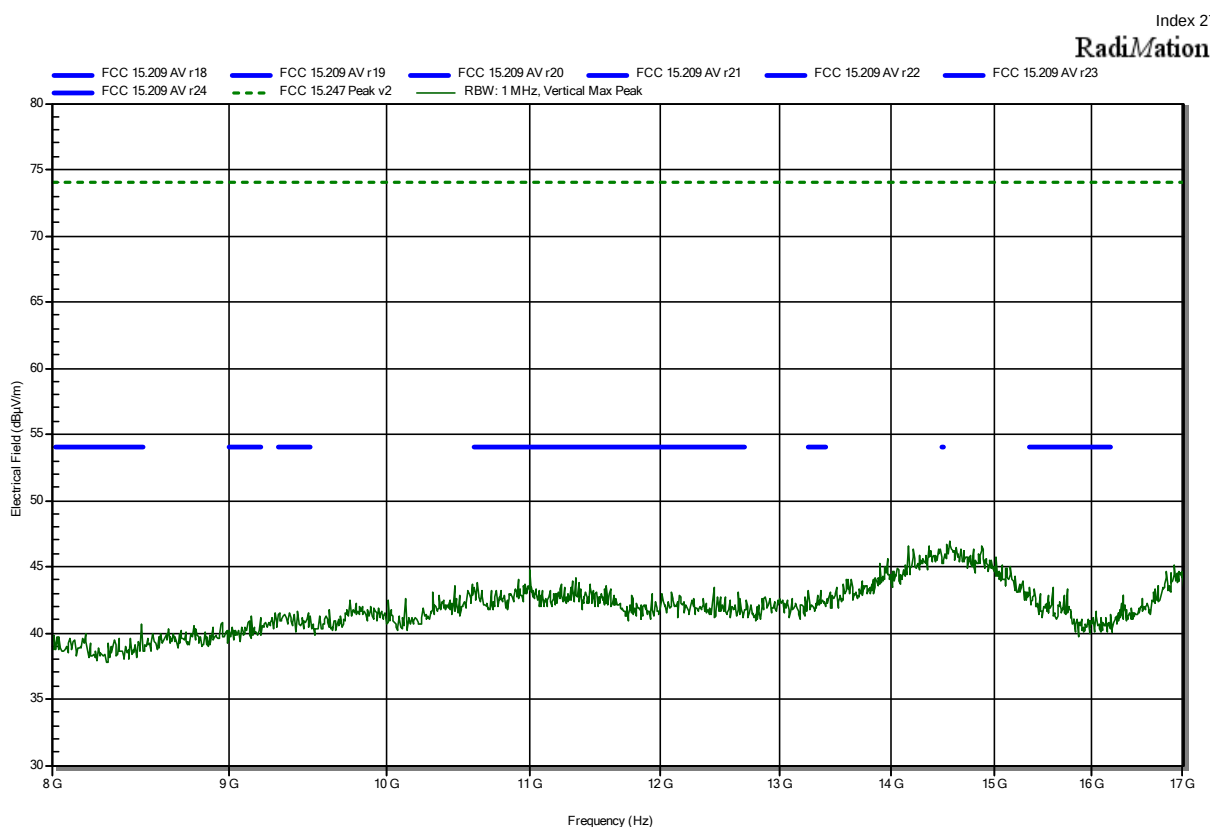
Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 0, PRSB9
 Test Date: 2020-11-10
 Note: EUT on side



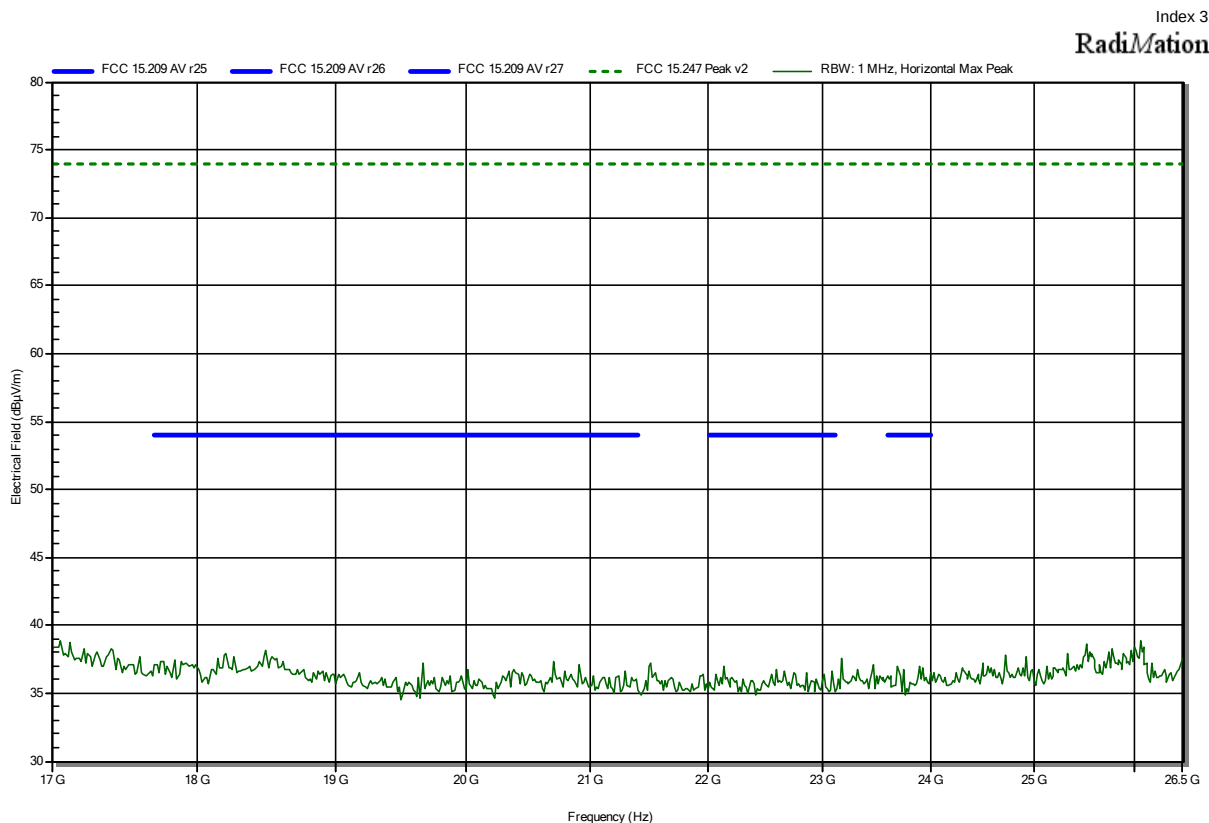
Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 0, PRSB9
 Test Date: 2020-11-10
 Note: EUT on side



Radiated Spurious Emissions according to FCC 47 CFR 15.247

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 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Amplifier Research AT4560, Horizontal
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 0, PRSB9
 Test Date: 2020-11-10
 Note: EUT on side

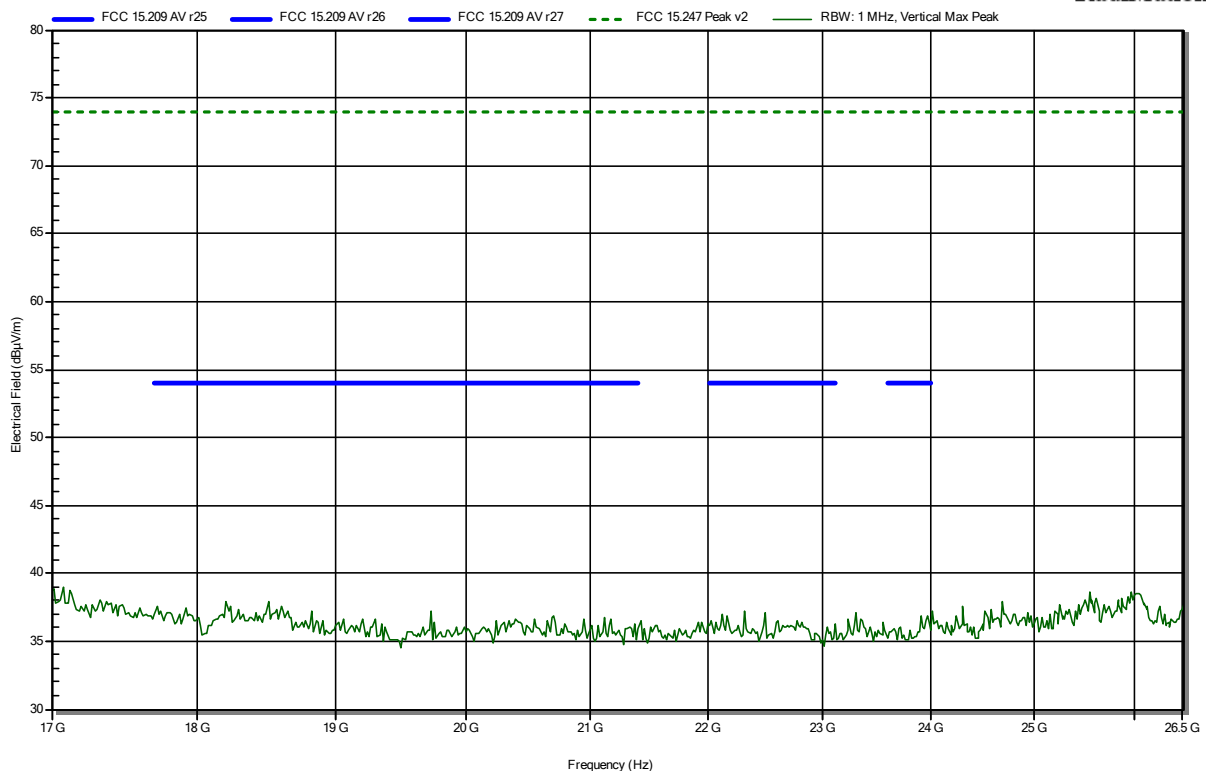


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 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Amplifier Research AT4560, Vertical
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 0, PRSB9
 Test Date: 2020-11-10
 Note: EUT on sde

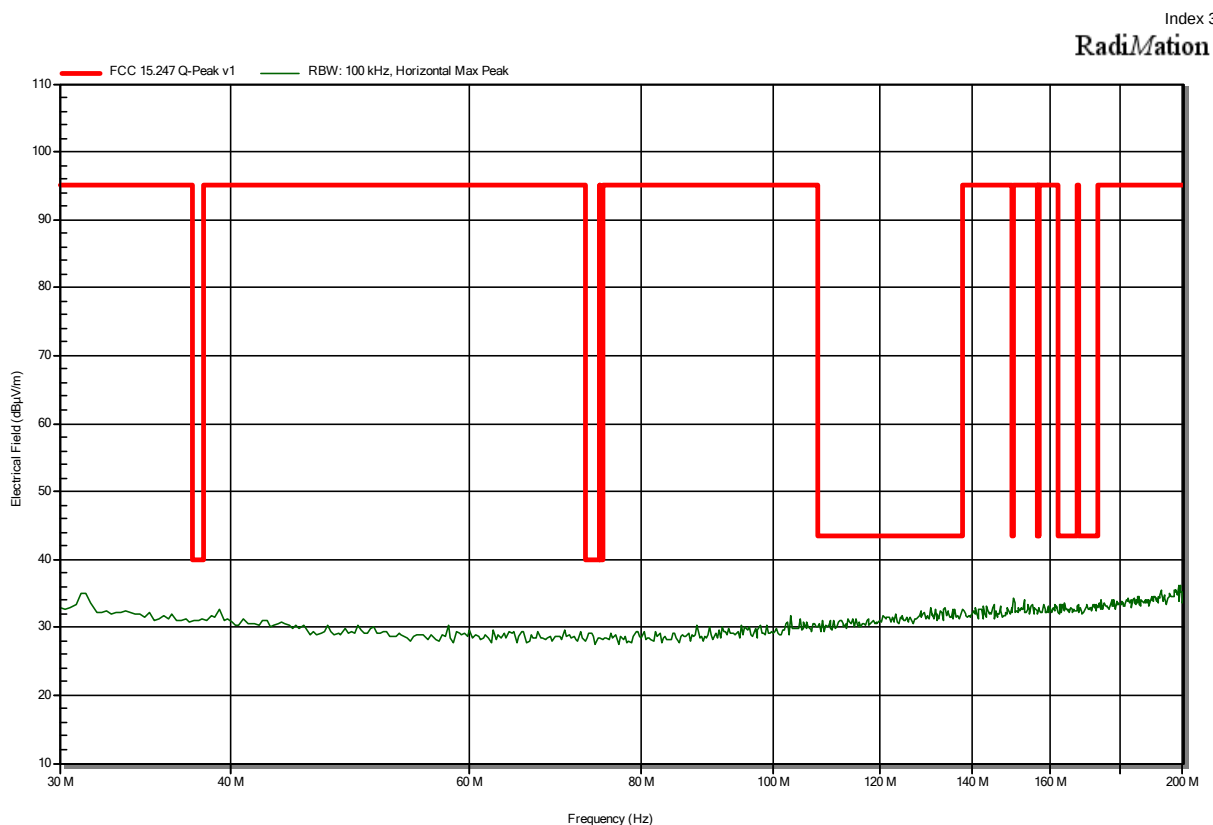
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Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: Tx; BTLE, Channel 19, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side

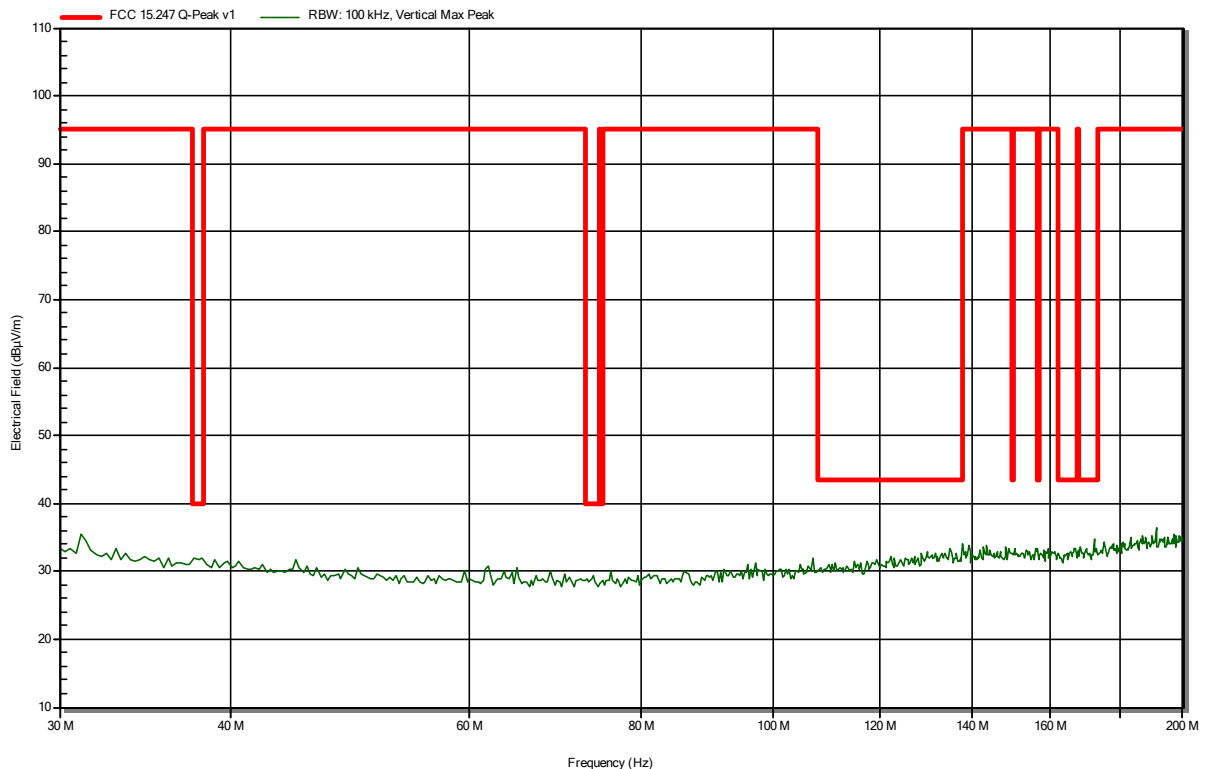


Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3 m
 Mode: Tx; BTLE, Channel 19, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side

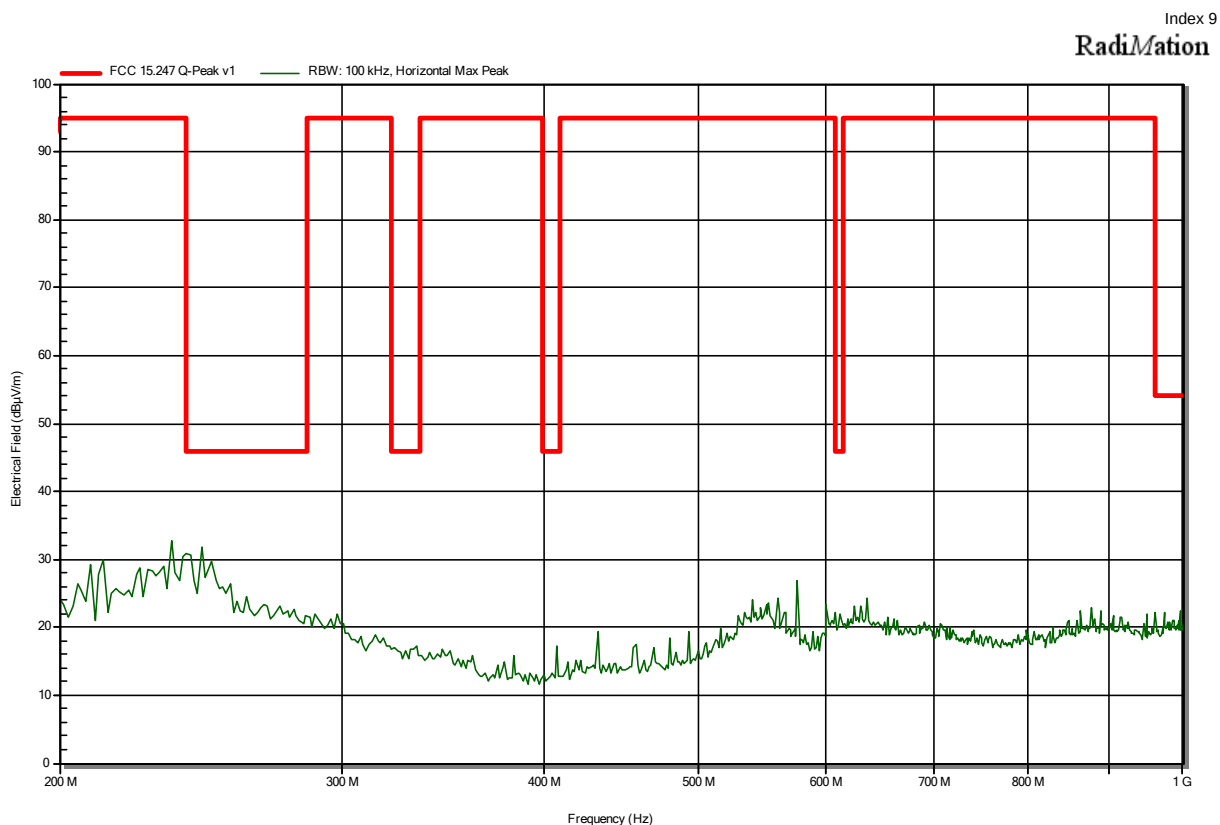
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RadiMation



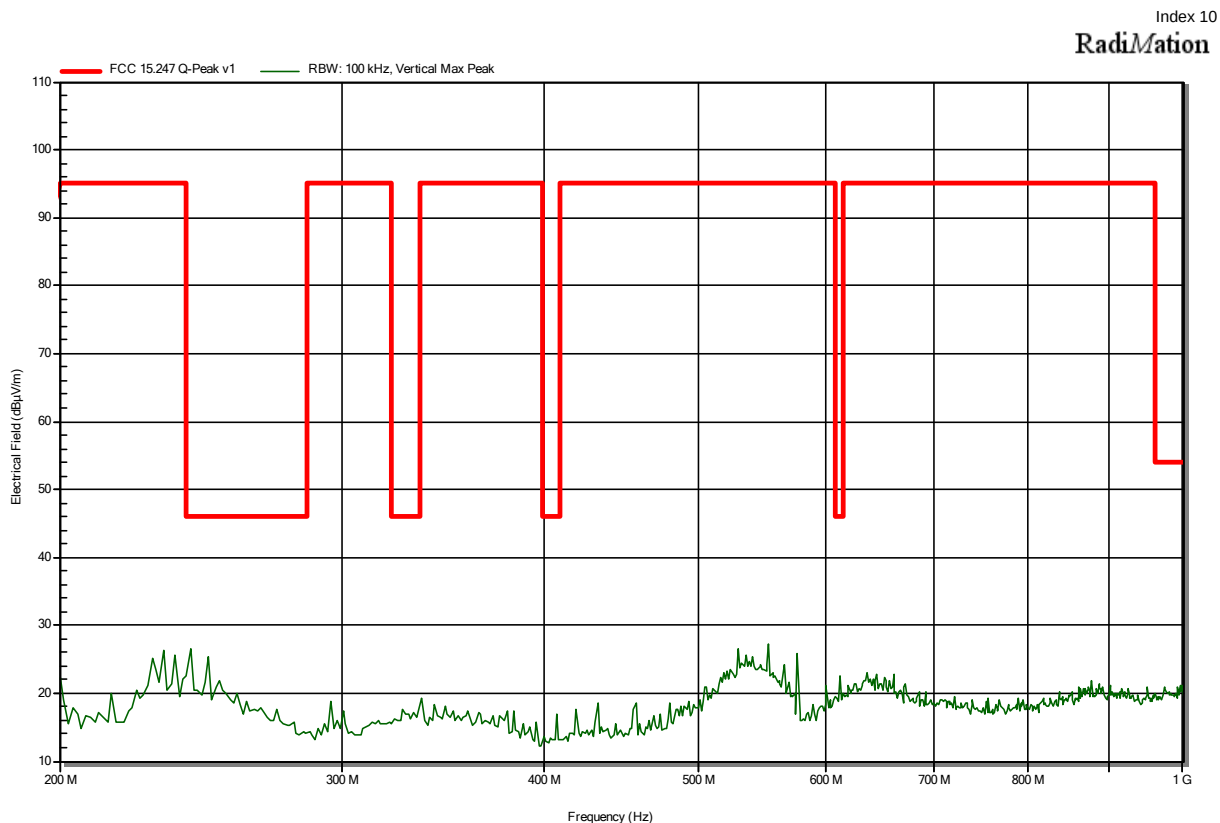
Radiated Spurious Emissions according to FCC 47 CFR 15.247

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 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: Tx; BTLE, Channel 19, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side



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 Mode: Tx; BTLE, Channel 19, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side

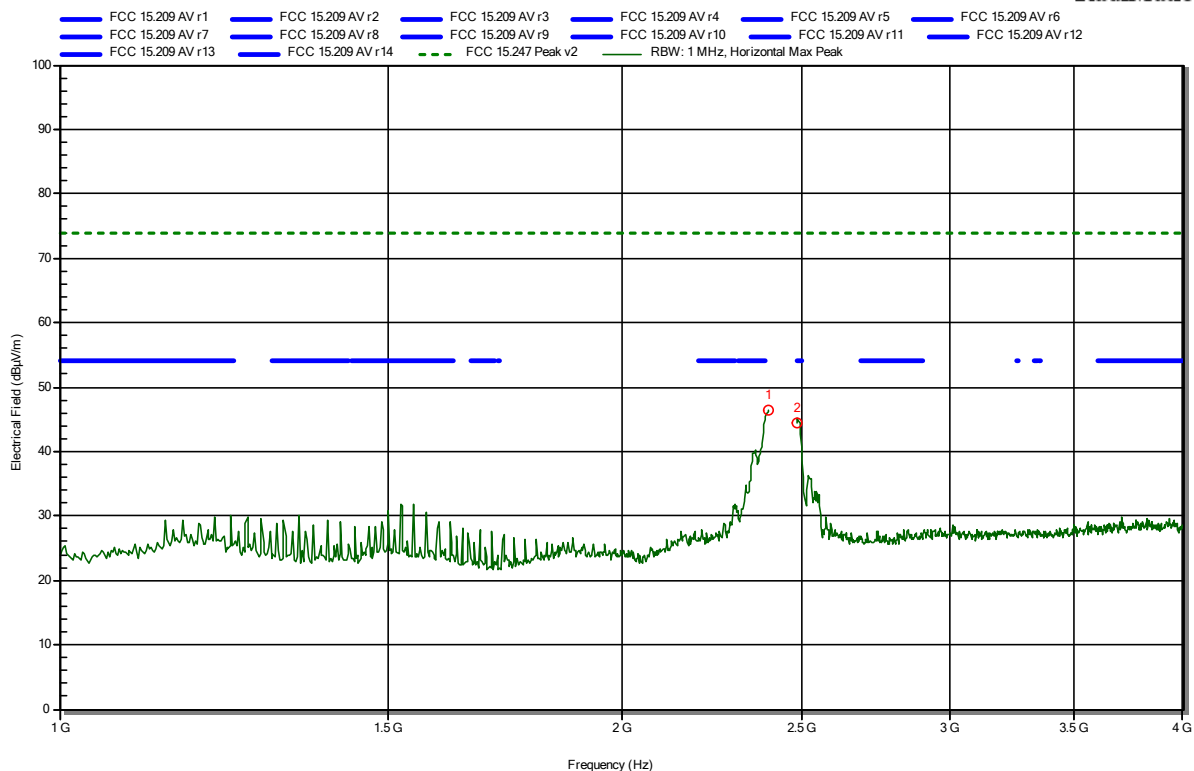


Radiated Spurious Emissions according to FCC 47 CFR 15.247

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 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 19, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side

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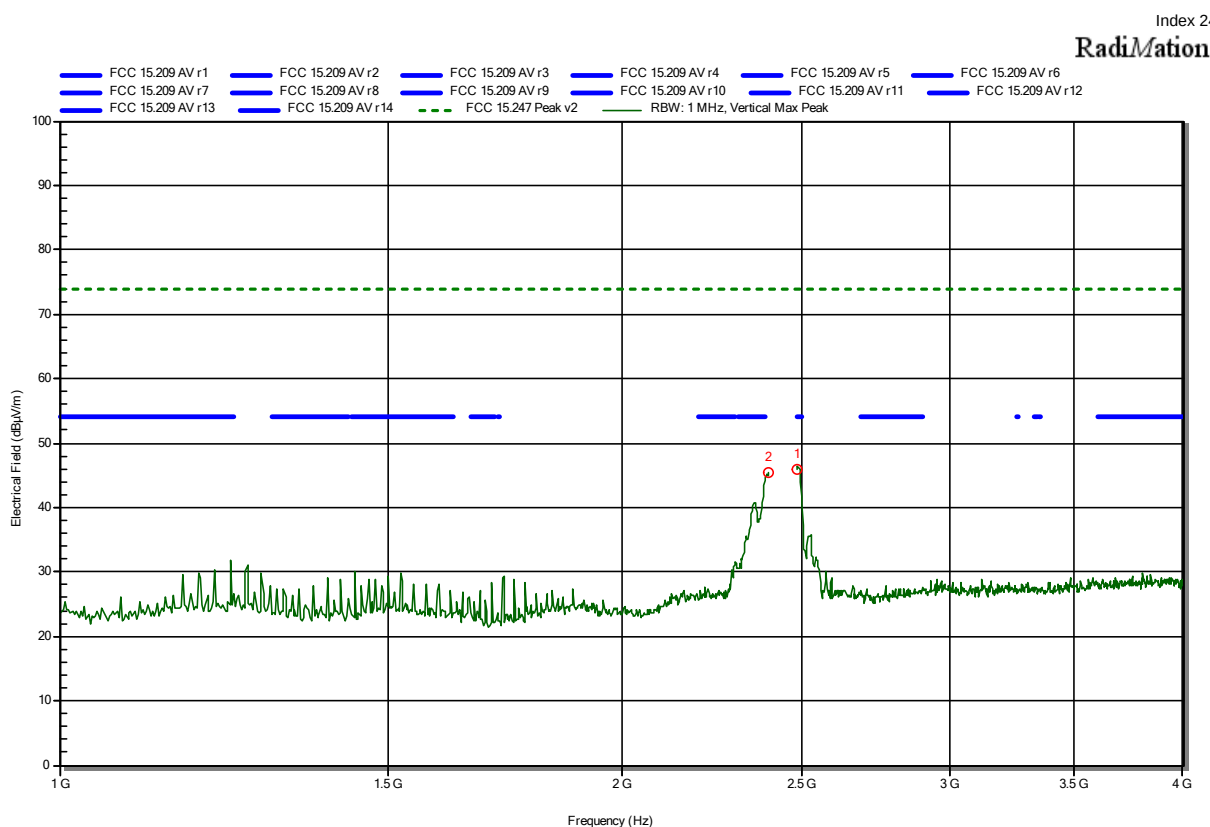
RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.4 GHz	46.46 dBμV/m	74 dBμV/m	-27.54 dB	Pass
2.4835 GHz	44.45 dBμV/m	74 dBμV/m	-29.55 dB	Pass

Radiated Spurious Emissions according to FCC 47 CFR 15.247

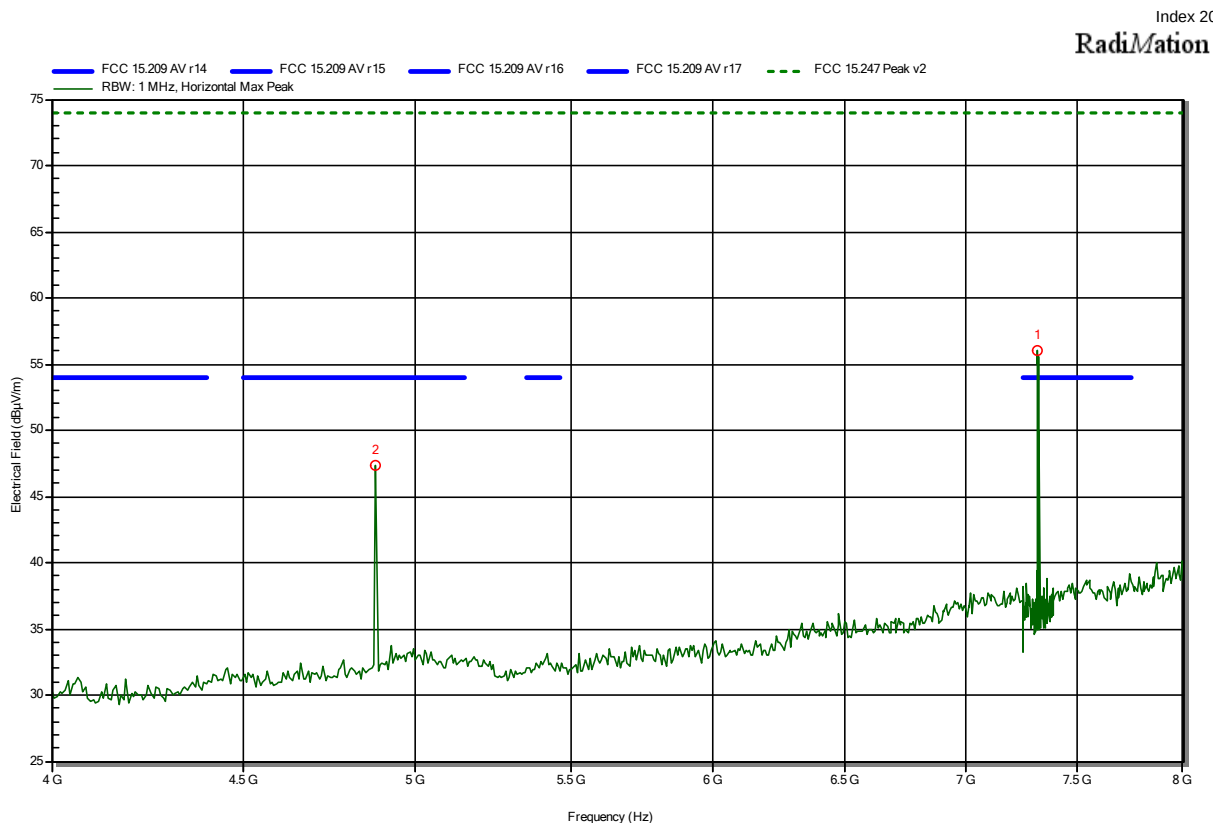
Project Number: G0M-2002-8799
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 Test Site: Eurofins Product Service GmbH
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 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 19, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.4 GHz	45.4 dBμV/m	74 dBμV/m	-28.6 dB	Pass
2.4835 GHz	45.96 dBμV/m	74 dBμV/m	-28.04 dB	Pass

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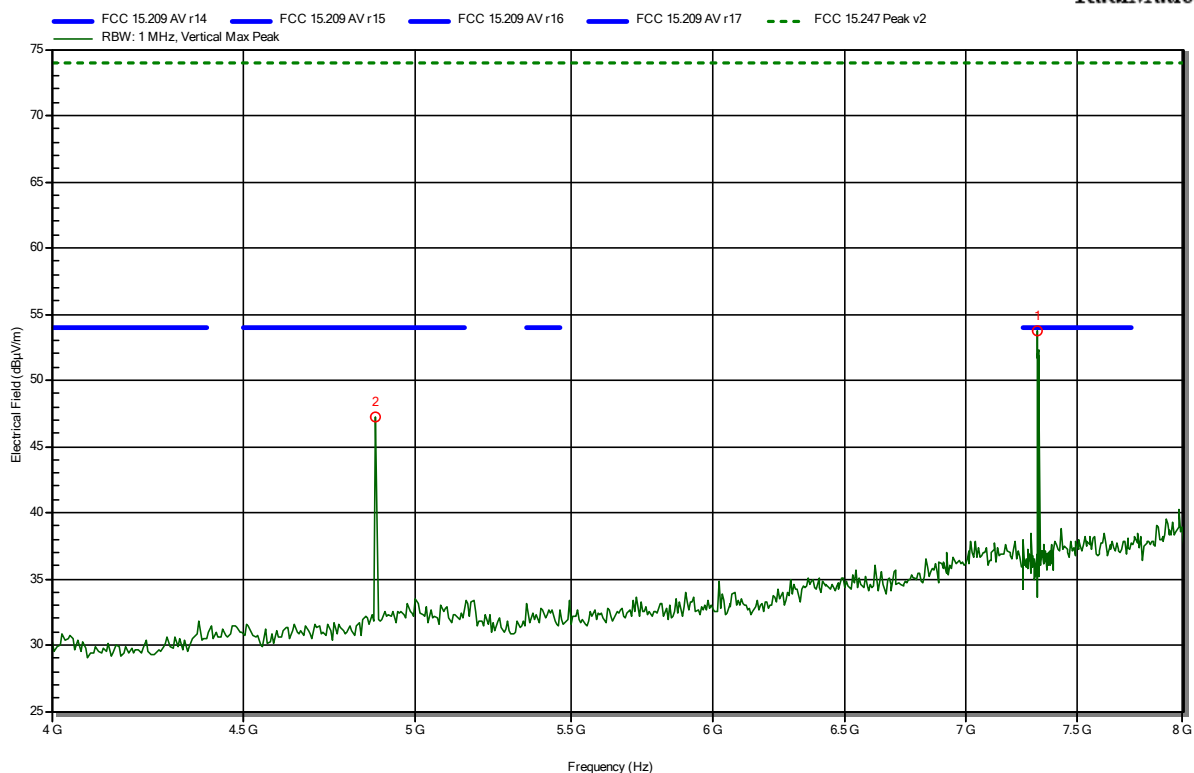
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.878 GHz	47.32 dBµV/m	74 dBµV/m	-26.68 dB	Pass
7.319 GHz	56.05 dBµV/m	74 dBµV/m	-17.95 dB	Pass
Frequency	Average	Average Limit	Average Difference	Average Status
7.319 GHz	47.38 dBµV/m	54 dBµV/m	-06.62 dB	Pass

Radiated Spurious Emissions according to FCC 47 CFR 15.247

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 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Ch19, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side

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RadiMation



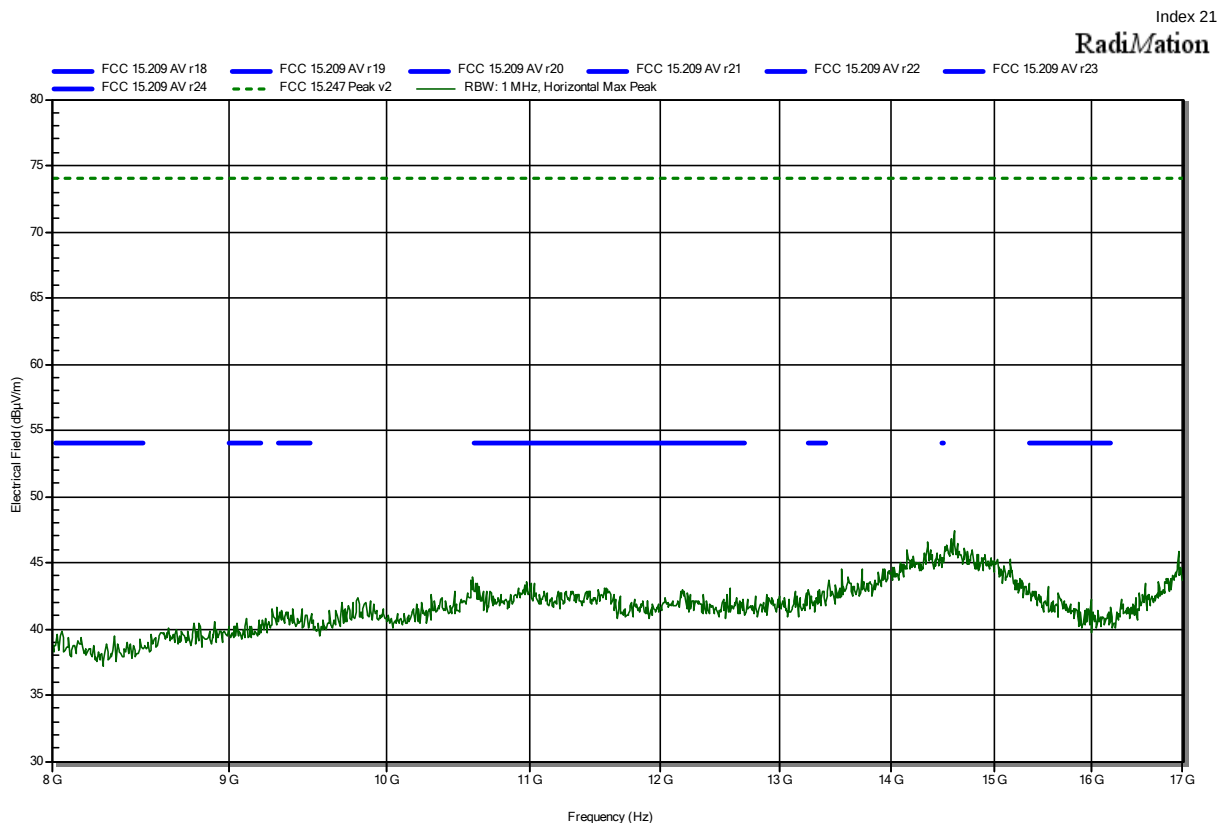
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.878 GHz	47.19 dBµV/m	74 dBµV/m	-26.81 dB	Pass
7.319 GHz	53.68 dBµV/m	74 dBµV/m	-20.32 dB	Pass
Frequency	Average	Average Limit	Average Difference	Average Status
7.319 GHz	44.07 dBµV/m	54 dBµV/m	-09.93 dB	Pass

Test Report No.: G0M-2002-8799-TFC247BL-V01

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

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 Mode: Tx; BTLE, Channel 19, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side

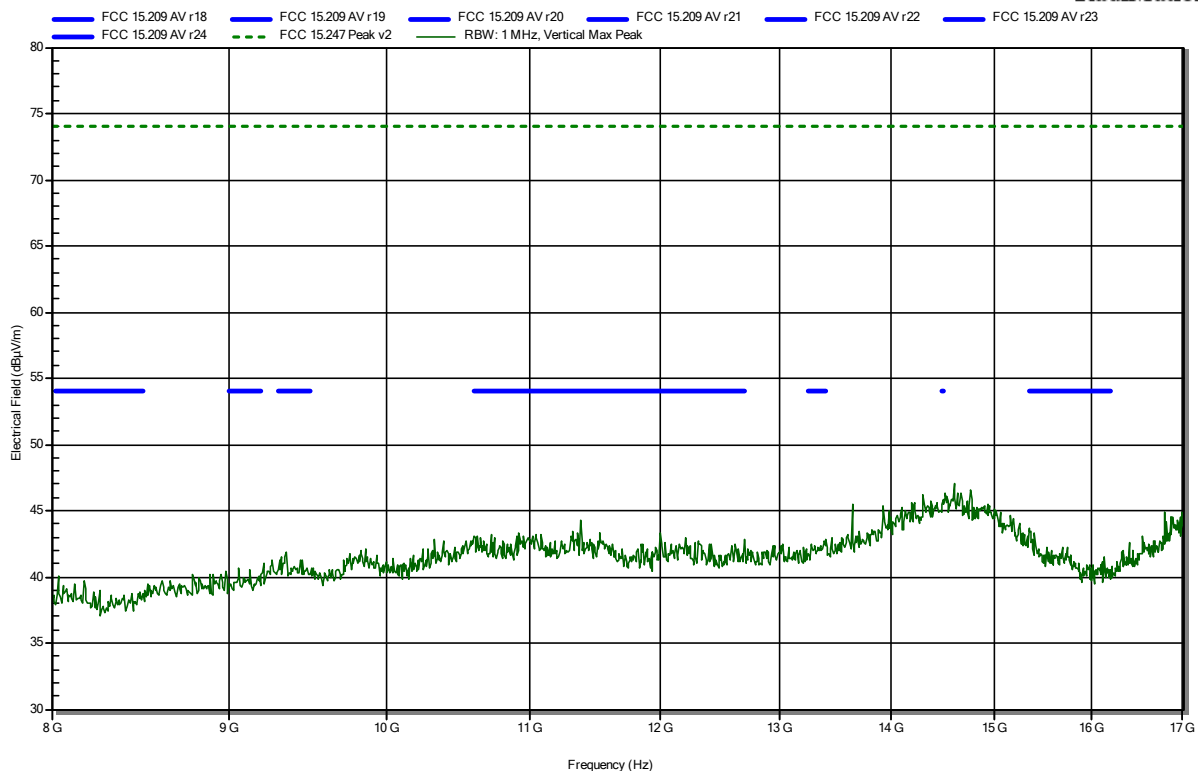


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 Mode: Tx; BTLE, Channel 19, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side

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RadiMation

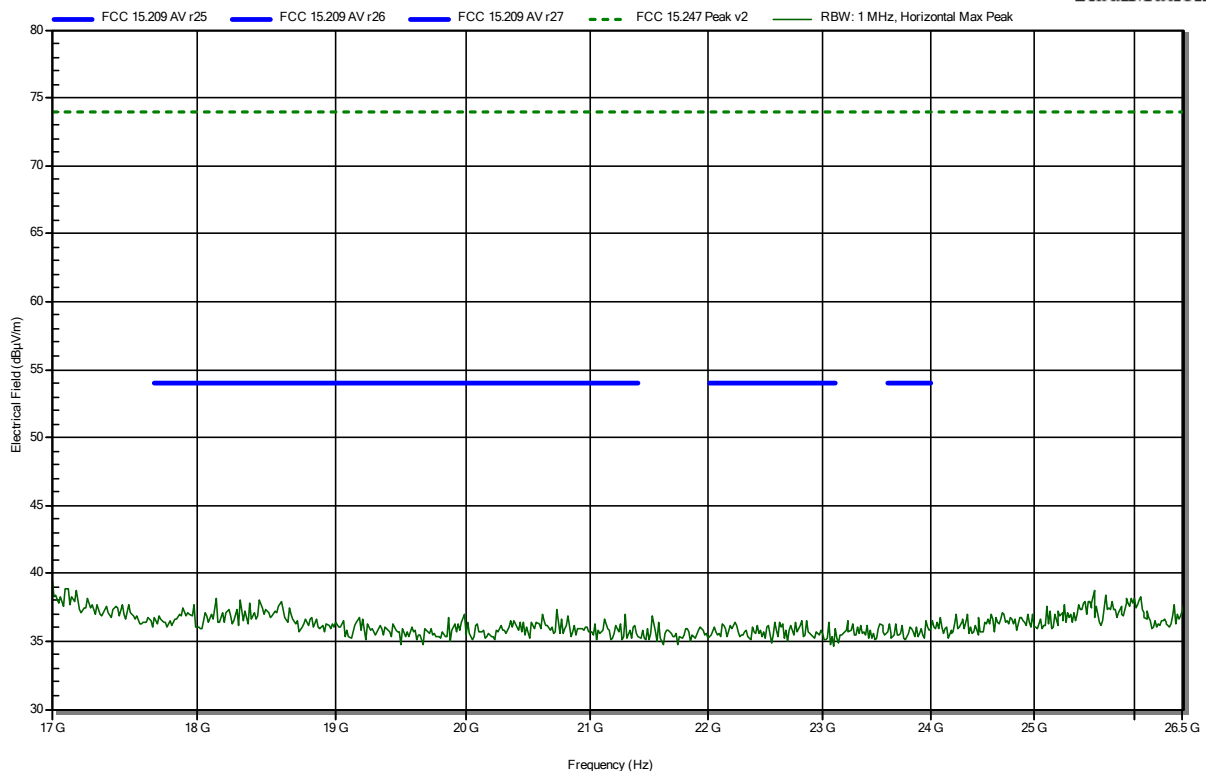


Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Amplifier Research AT4560, Horizontal
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 19, PRSB9
 Test Date: 2020-11-10
 Note: EUT on side

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RadiMation

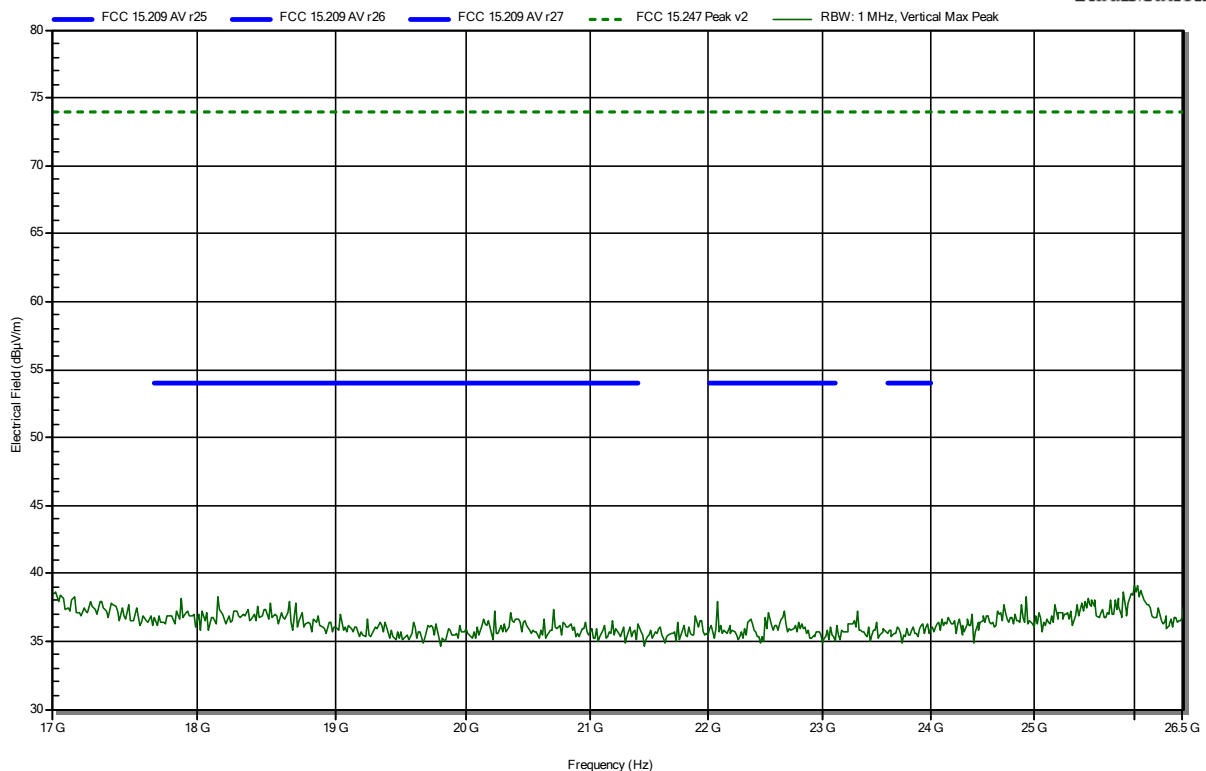


Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Amplifier Research AT4560, Vertical
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 19, PRSB9
 Test Date: 2020-11-10
 Note: EUT on side

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RadiMation

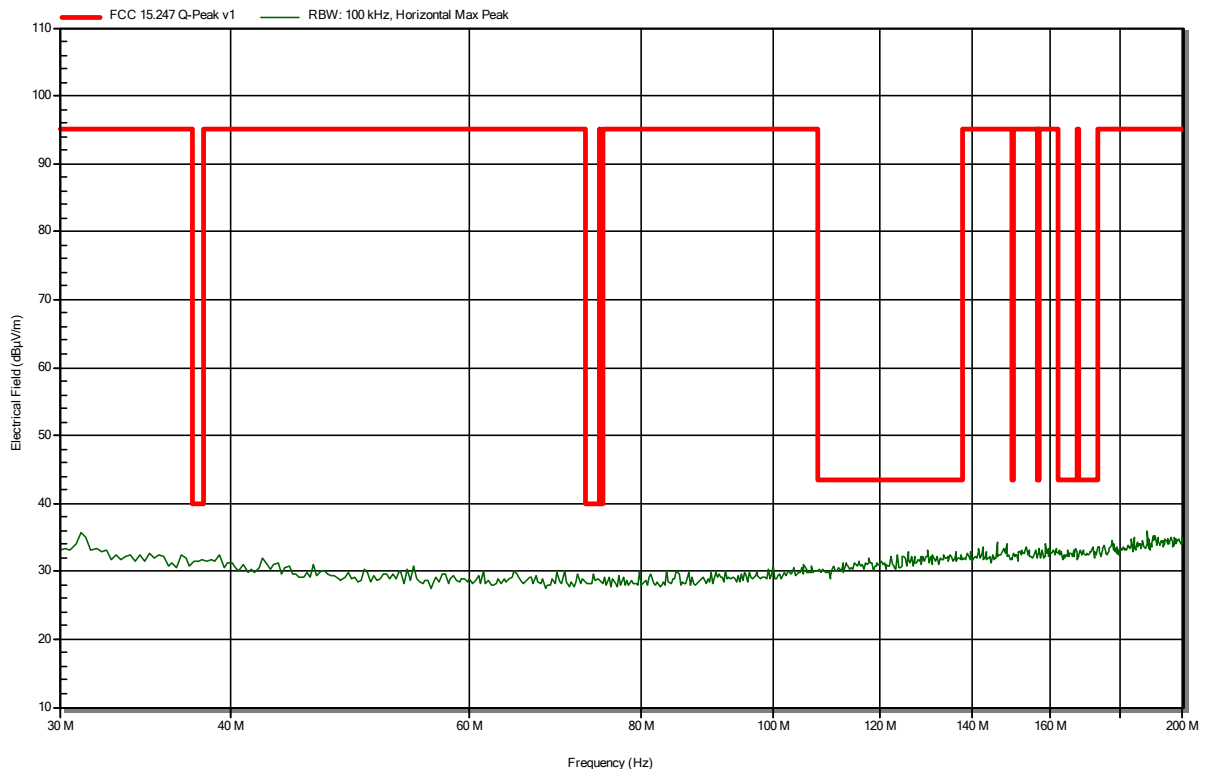


Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: Tx; BTLE, Channel 39, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side

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RadiMation

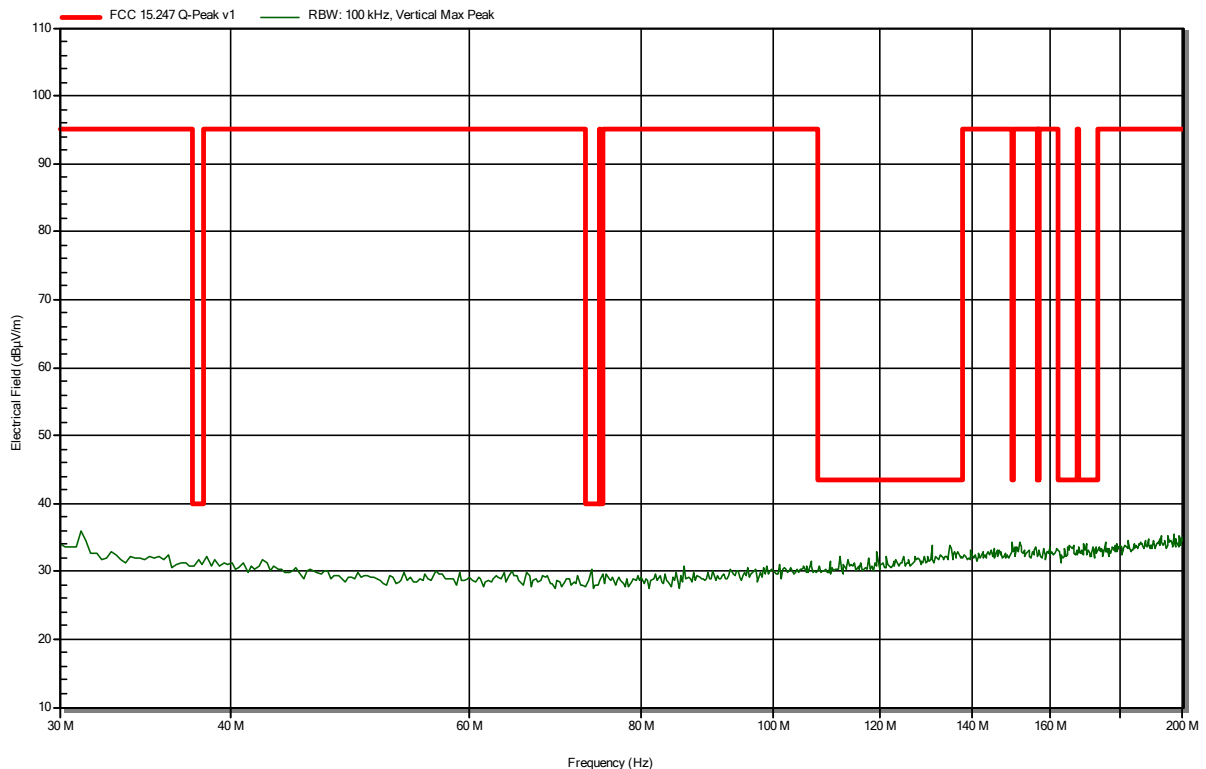


Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3 m
 Mode: Tx; BTLE, Channel 39, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side

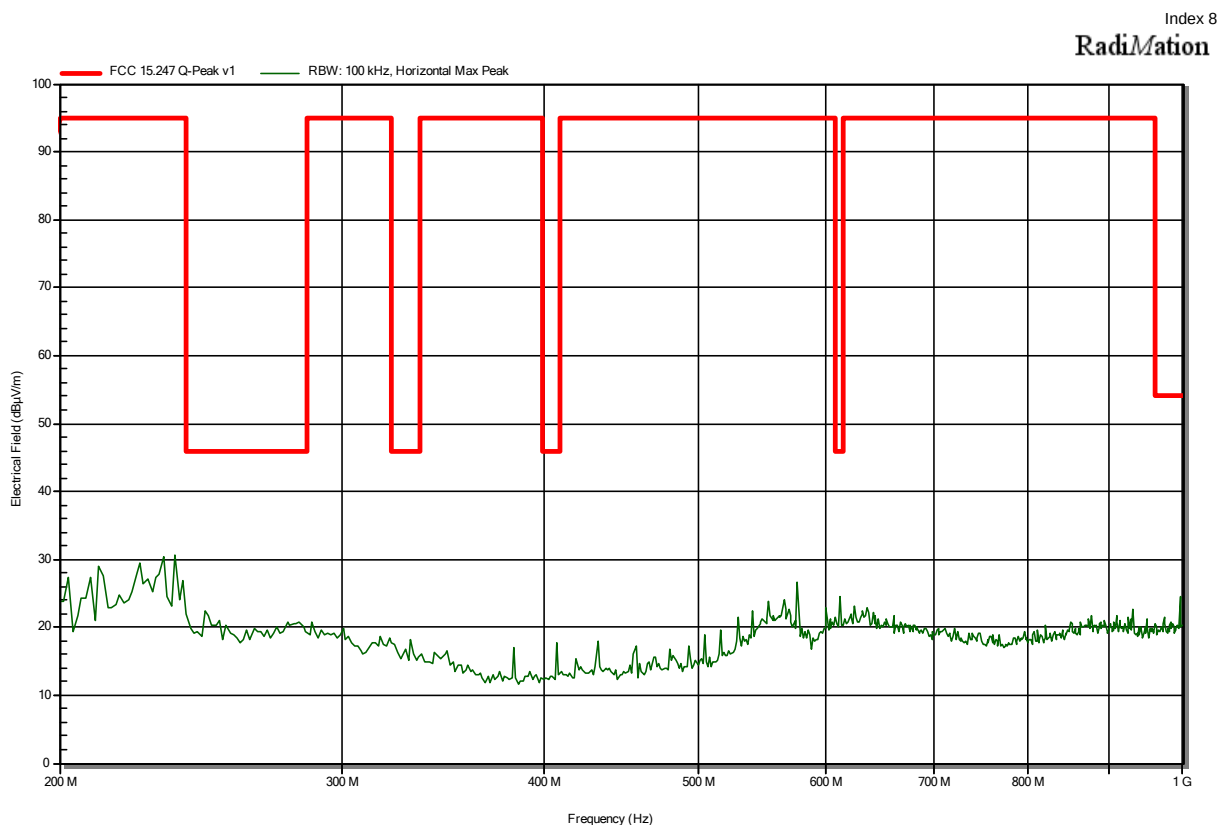
Index 5

RadiMation



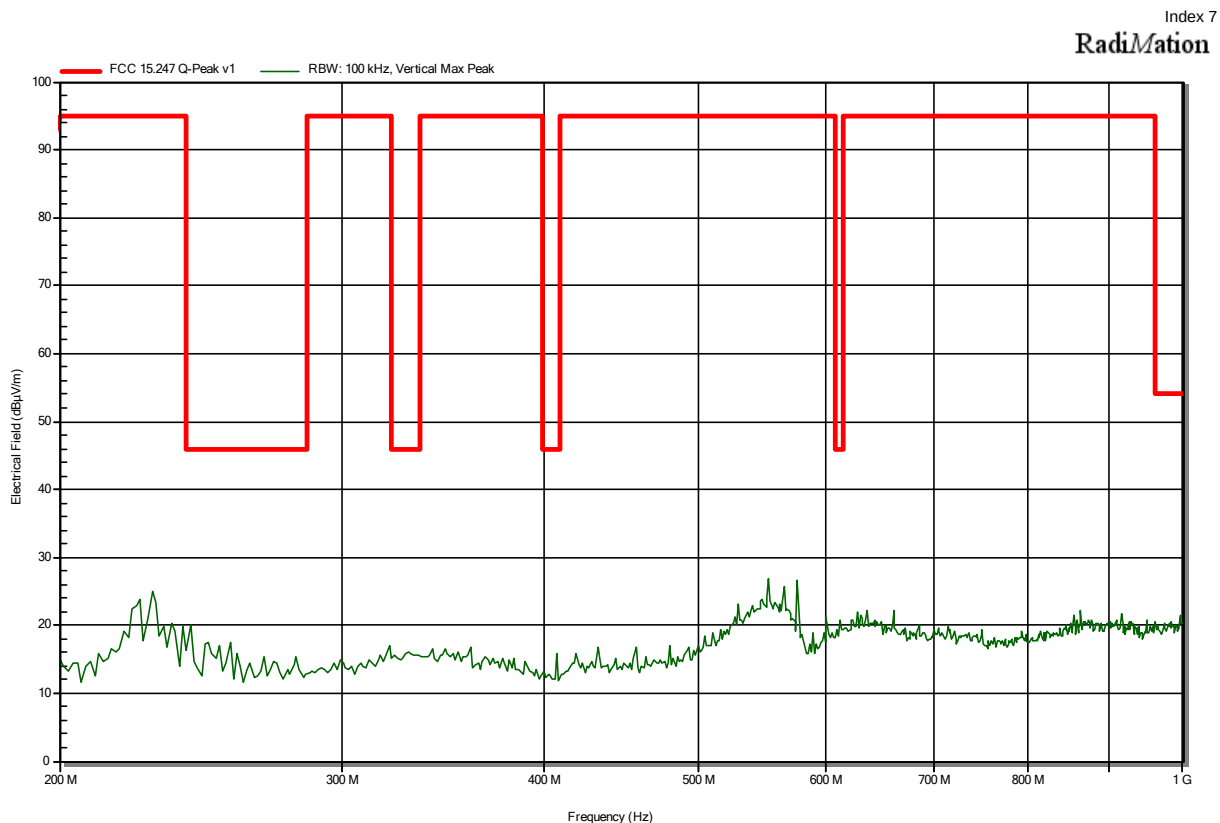
Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: Tx; BTLE, Channel 39, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side



Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: Tx; BTLE, Channel 39, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side

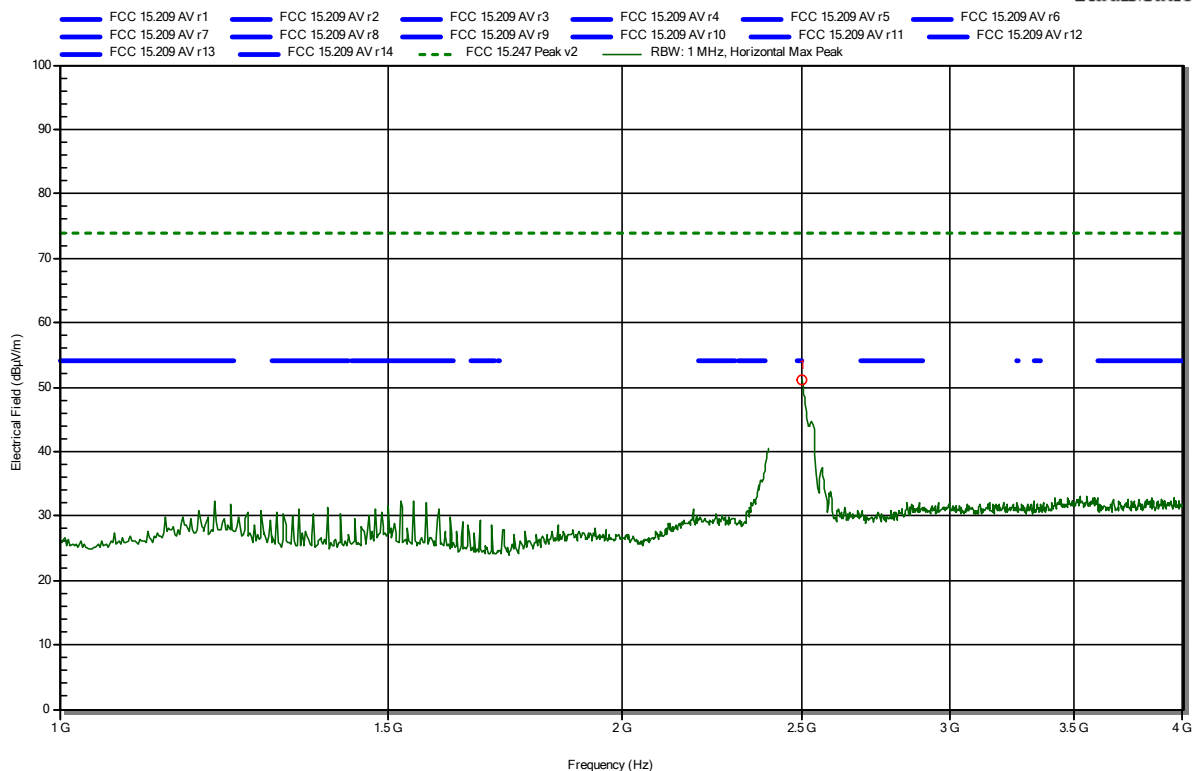


Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 39, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side

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RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.5 GHz	51.07 dBμV/m	74 dBμV/m	-22.93 dB	Pass

Test Report No.: G0M-2002-8799-TFC247BL-V01

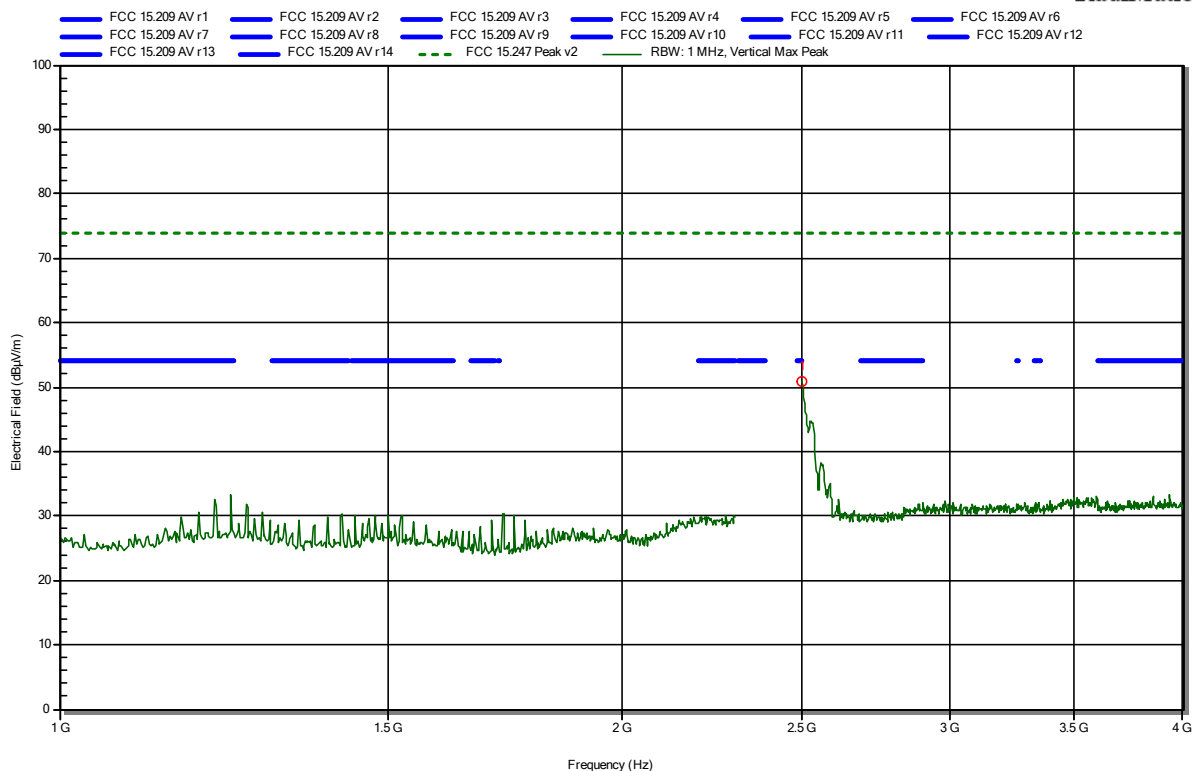
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 39, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side

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RadiMation



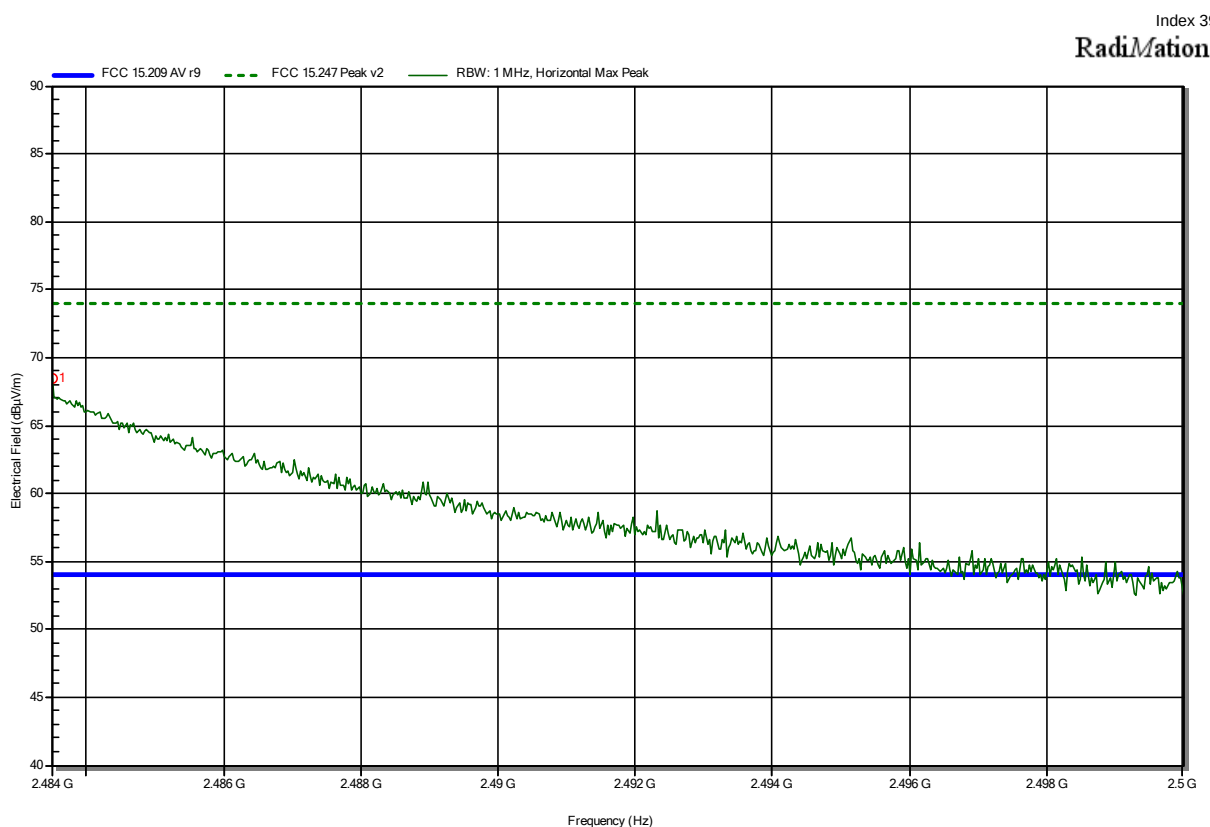
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.5 GHz	50.99 dBμV/m	74 dBμV/m	-23.01 dB	Pass

Test Report No.: G0M-2002-8799-TFC247BL-V01

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

Radiated Spurious Emissions according to FCC 47 CFR 15.247

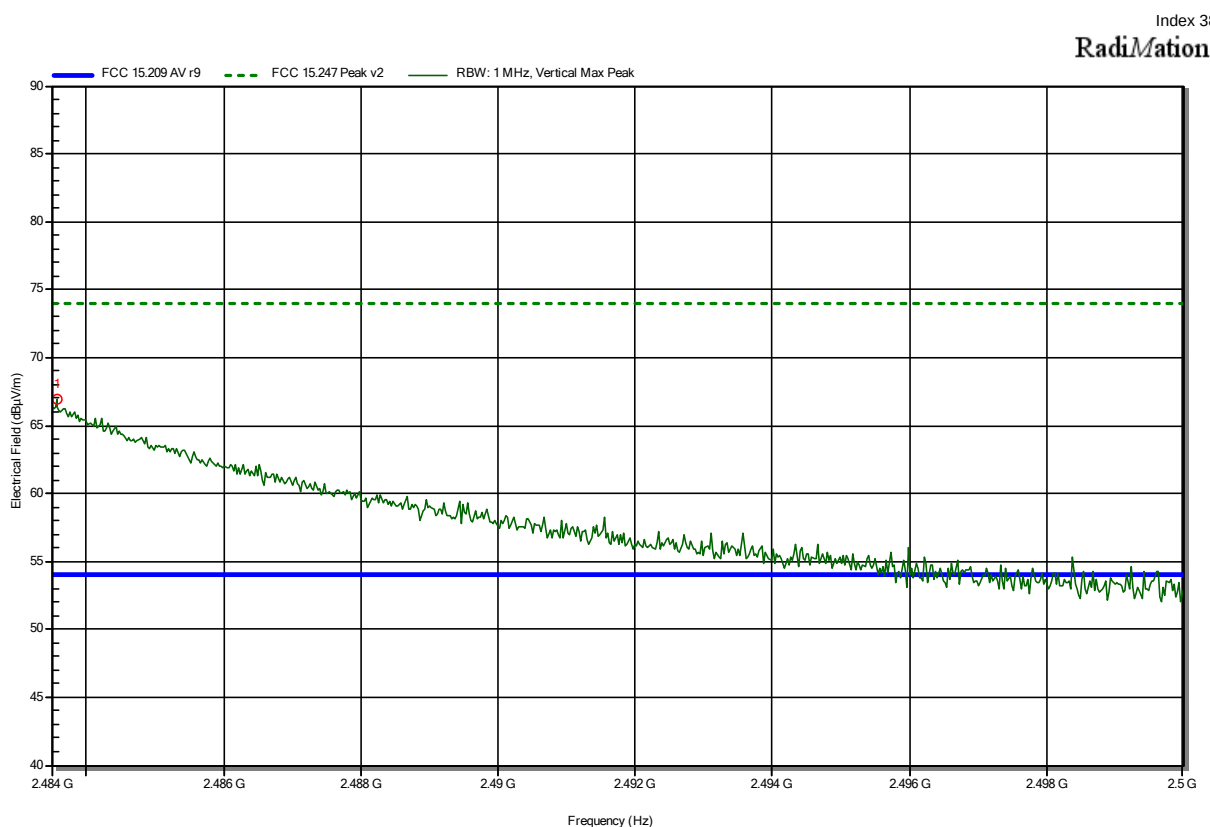
Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 39, PRSB9
 Test Date: 2020-11-10
 Note: EUT on side, upper band-edge



Frequency 2.4835 GHz	Peak 68.45 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -5.55 dB	Peak Status Pass
Frequency 2.4835 GHz	Average 43.83 dBµV/m	Average Limit 54 dBµV/m	Average Difference -10.17 dB	Average Status Pass

Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 39, PRSB9
 Test Date: 2020-11-10
 Note: EUT on side, upper bandedge



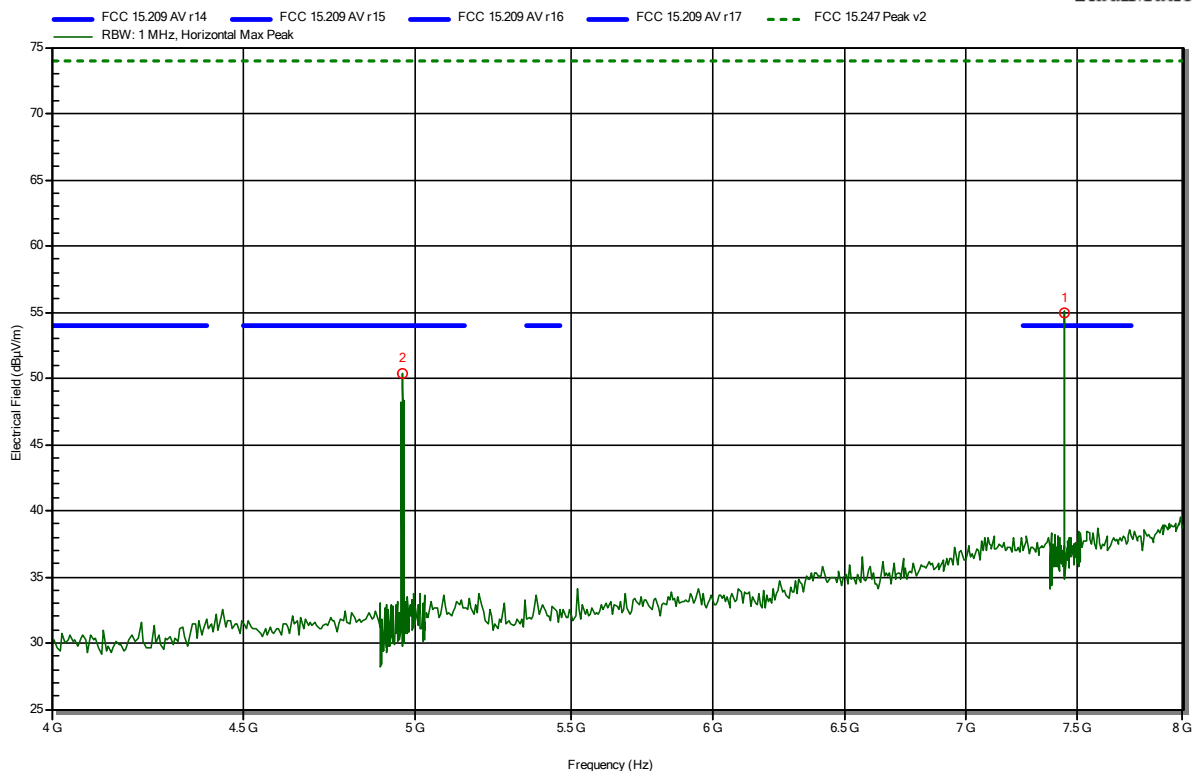
Frequency 2.4836 GHz	Peak 66.97 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -7.03 dB	Peak Status Pass
Frequency 2.4835 GHz	Average 44.59 dBµV/m	Average Limit 54 dBµV/m	Average Difference -9.41 dB	Average Status Pass

Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 39, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side

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RadiMation



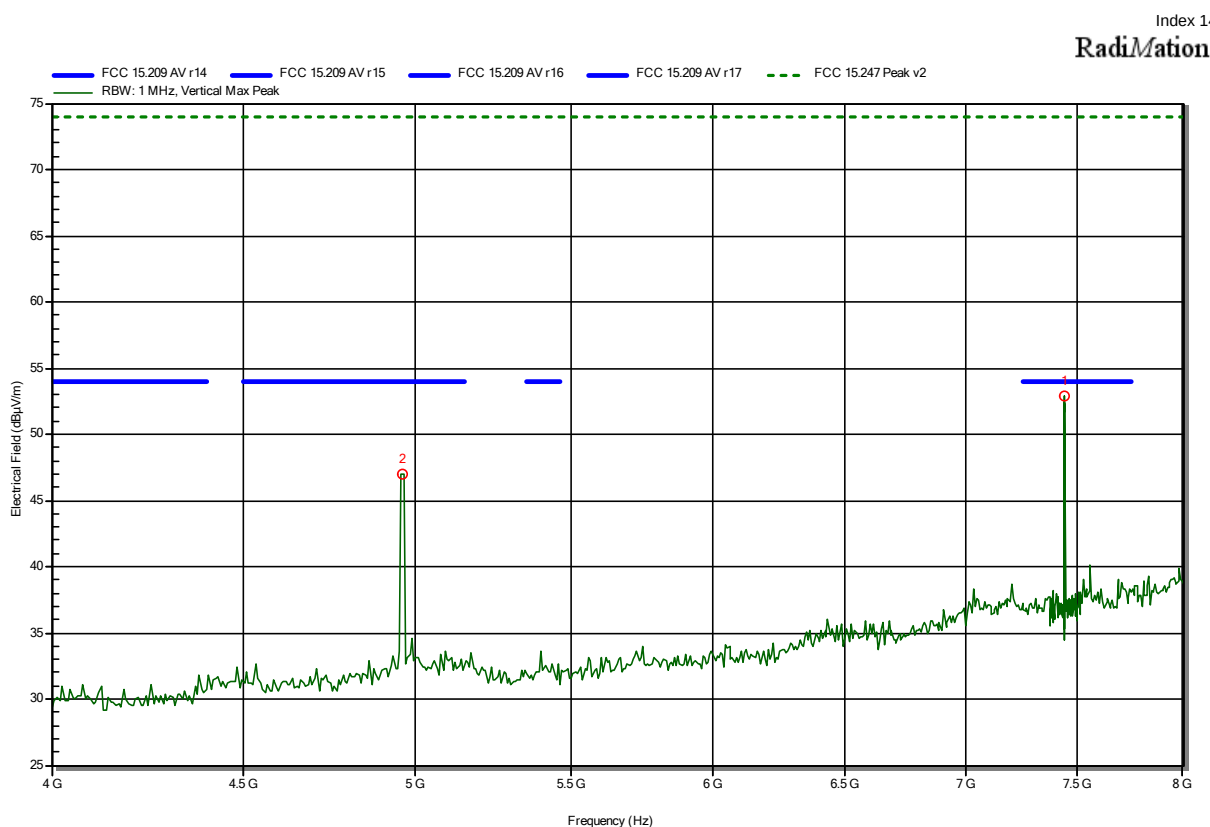
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.959 GHz	50.37 dBμV/m	74 dBμV/m	-23.63 dB	Pass
7.439 GHz	54.93 dBμV/m	74 dBμV/m	-19.07 dB	Pass
Frequency	Average	Average Limit	Average Difference	Average Status
7.439 GHz	44.37 dBμV/m	54 dBμV/m	-9.63 dB	Pass

Test Report No.: G0M-2002-8799-TFC247BL-V01

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

Radiated Spurious Emissions according to FCC 47 CFR 15.247

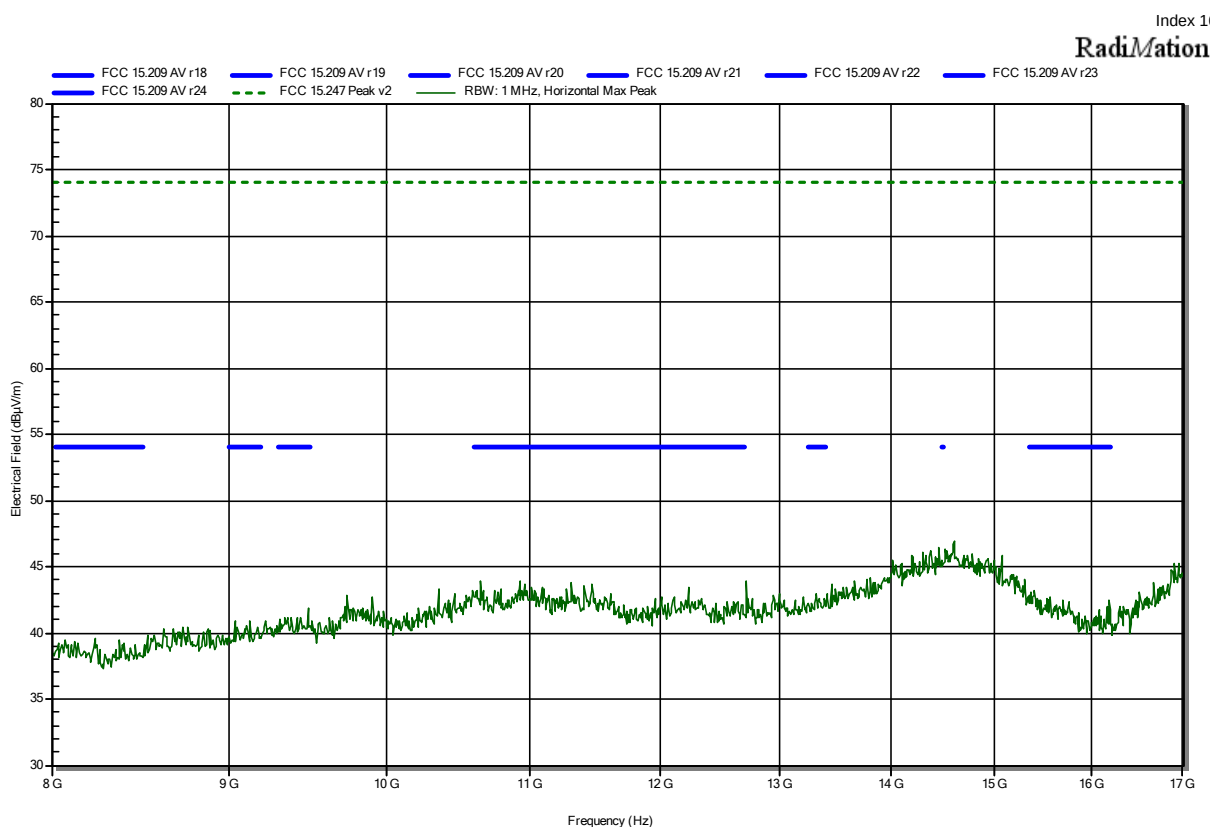
Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Ch39, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.962 GHz	47.03 dBµV/m	74 dBµV/m	-26.97 dB	Pass
7.441 GHz	52.83 dBµV/m	74 dBµV/m	-21.17 dB	Pass

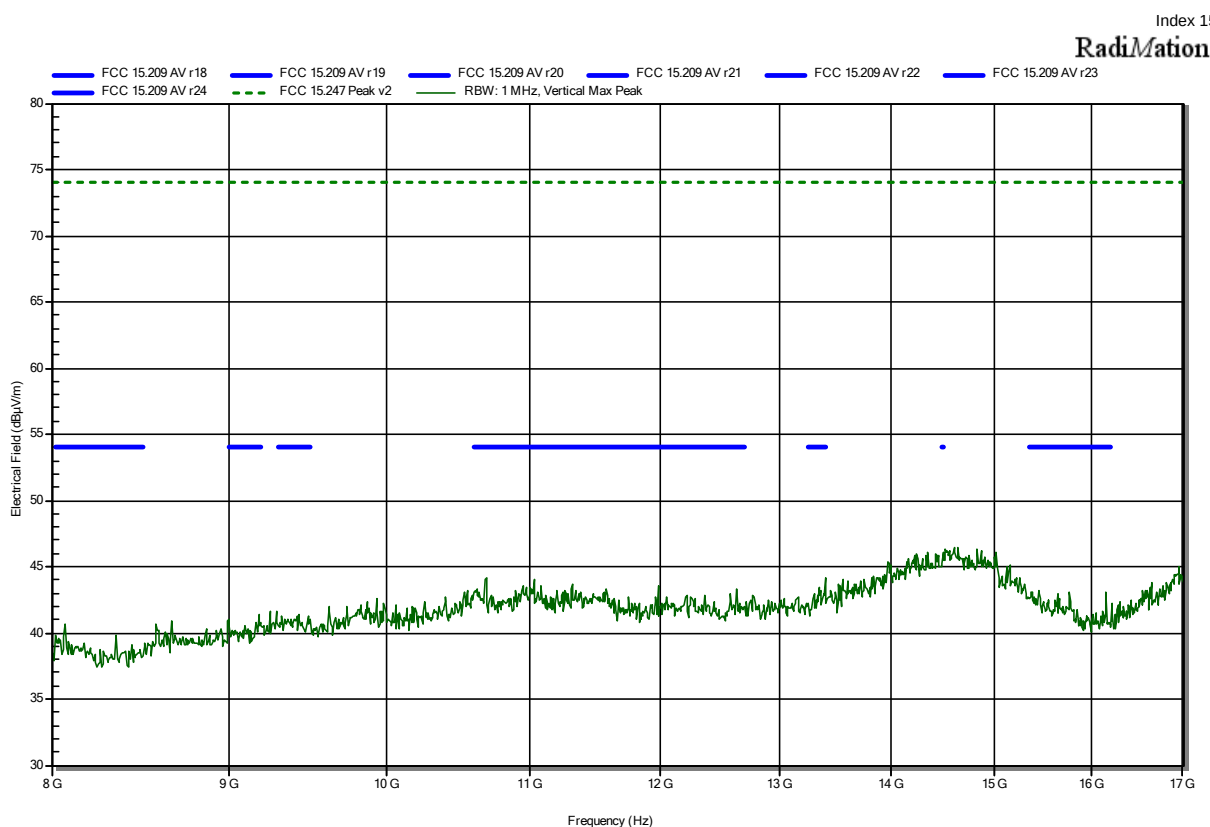
Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 39, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side



Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 39, PRSB9
 Test Date: 2020-11-09
 Note: EUT on side

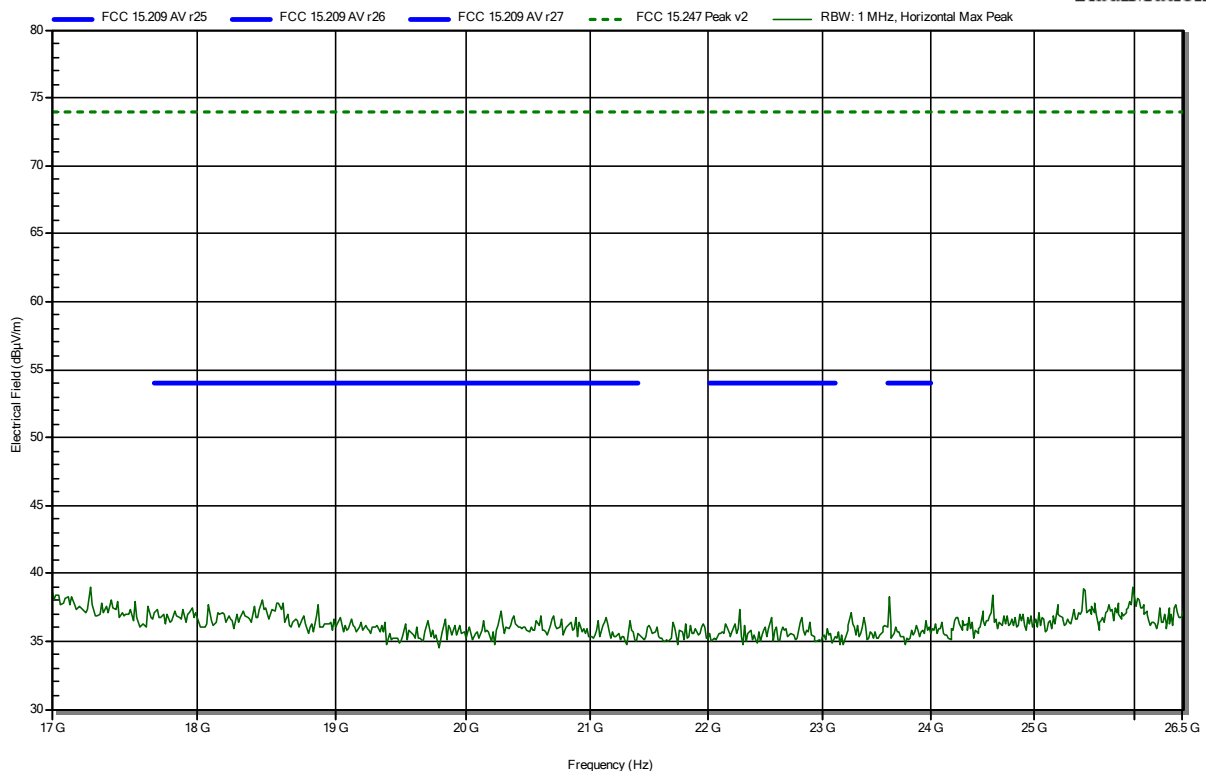


Radiated Spurious Emissions according to FCC 47 CFR 15.247

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Amplifier Research AT4560, Horizontal
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 39, PRSB9
 Test Date: 2020-11-10
 Note: EUT on side

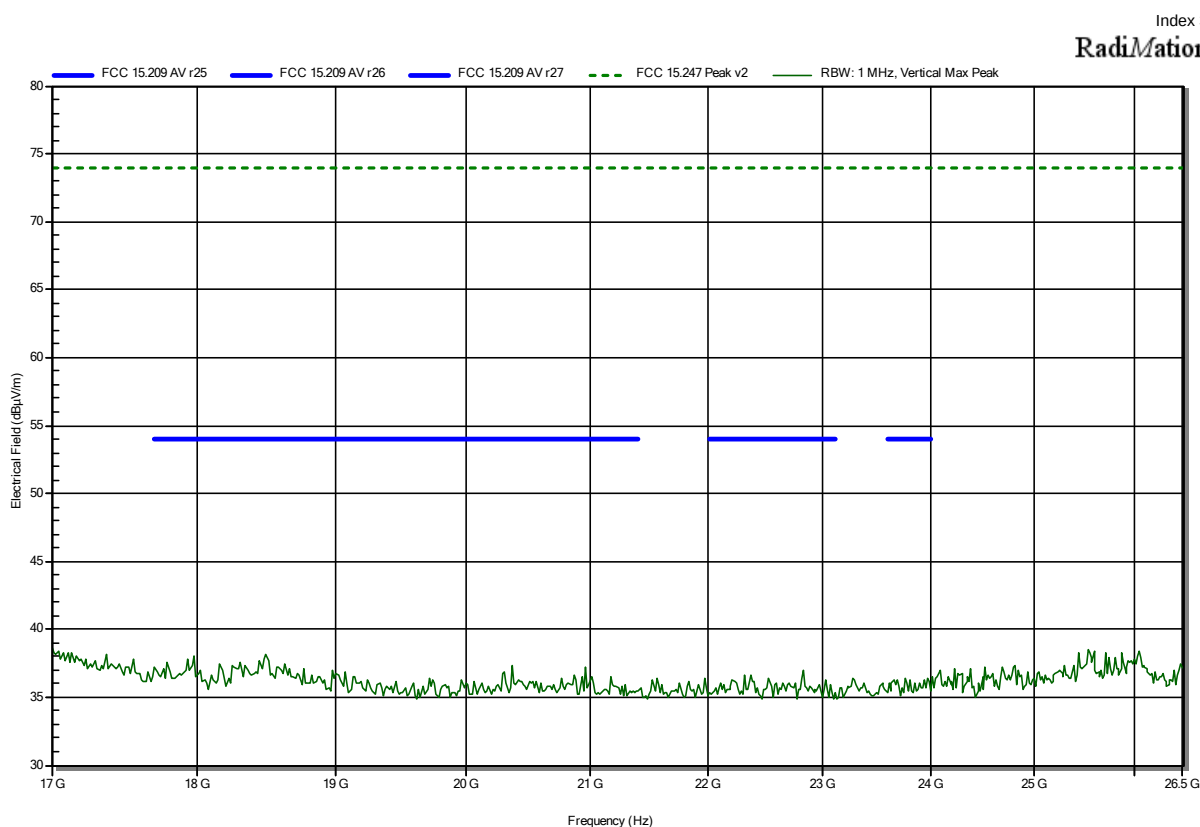
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RadiMation



Radiated Spurious Emissions according to FCC 47 CFR 15.247

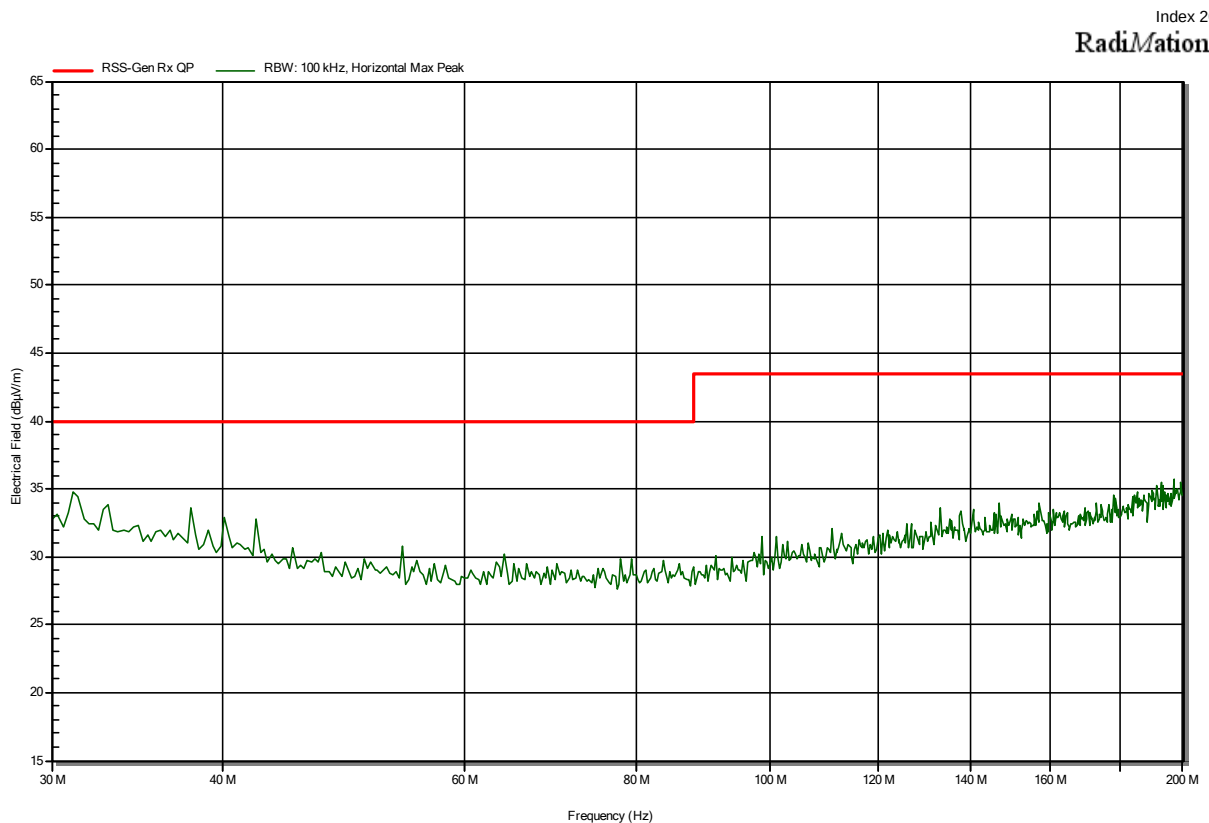
Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Amplifier Research AT4560, Vertical
 Measurement distance: 1 m, converted to 3 m
 Mode: Tx; BTLE, Channel 39, PRSB9
 Test Date: 2020-11-10
 Note: EUT on side



ANNEX B Receiver spurious emissions

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

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: RX; BTLE, Channel 19
 Test Date: 2020-11-09
 Note: EUT on side

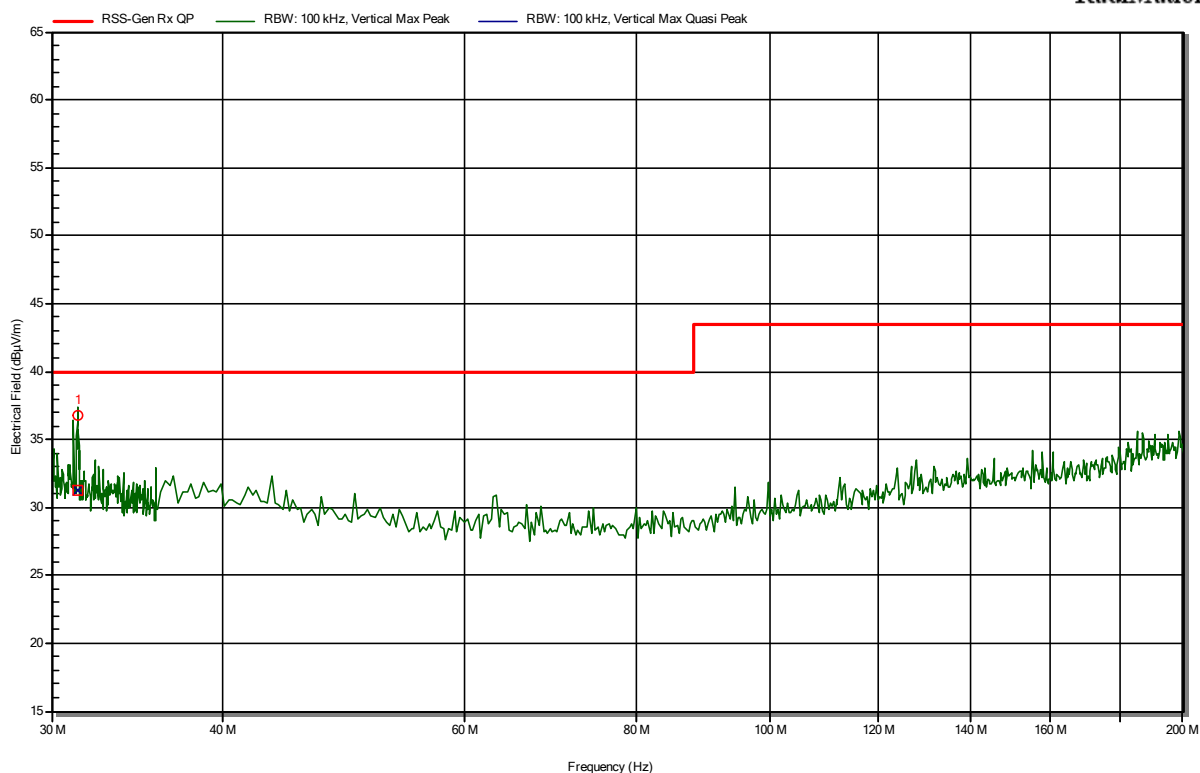


Radiated Spurious Emissions according to ISCED RSS-247 Issue 2 (February 2017)

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7 VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3 m
 Mode: Rx; BTLE, Channel 19
 Test Date: 2020-11-09
 Note: EUT on side

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RadiMation



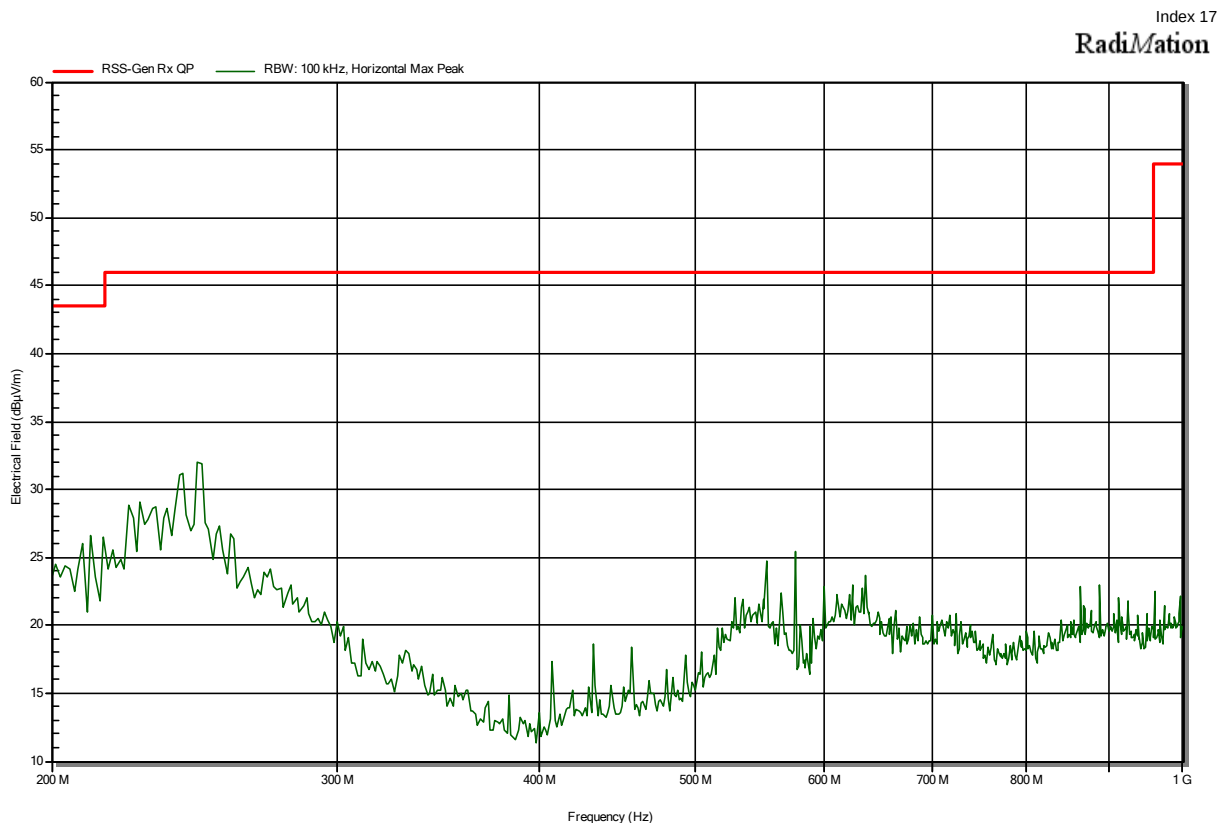
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
31.332 MHz	36.81 dBµV/m	40 dBµV/m	-3.19 dB	Pass
Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
31.332 MHz	31.26 dBµV/m	40 dBµV/m	-8.74 dB	Pass

Test Report No.: G0M-2002-8799-TFC247BL-V01

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

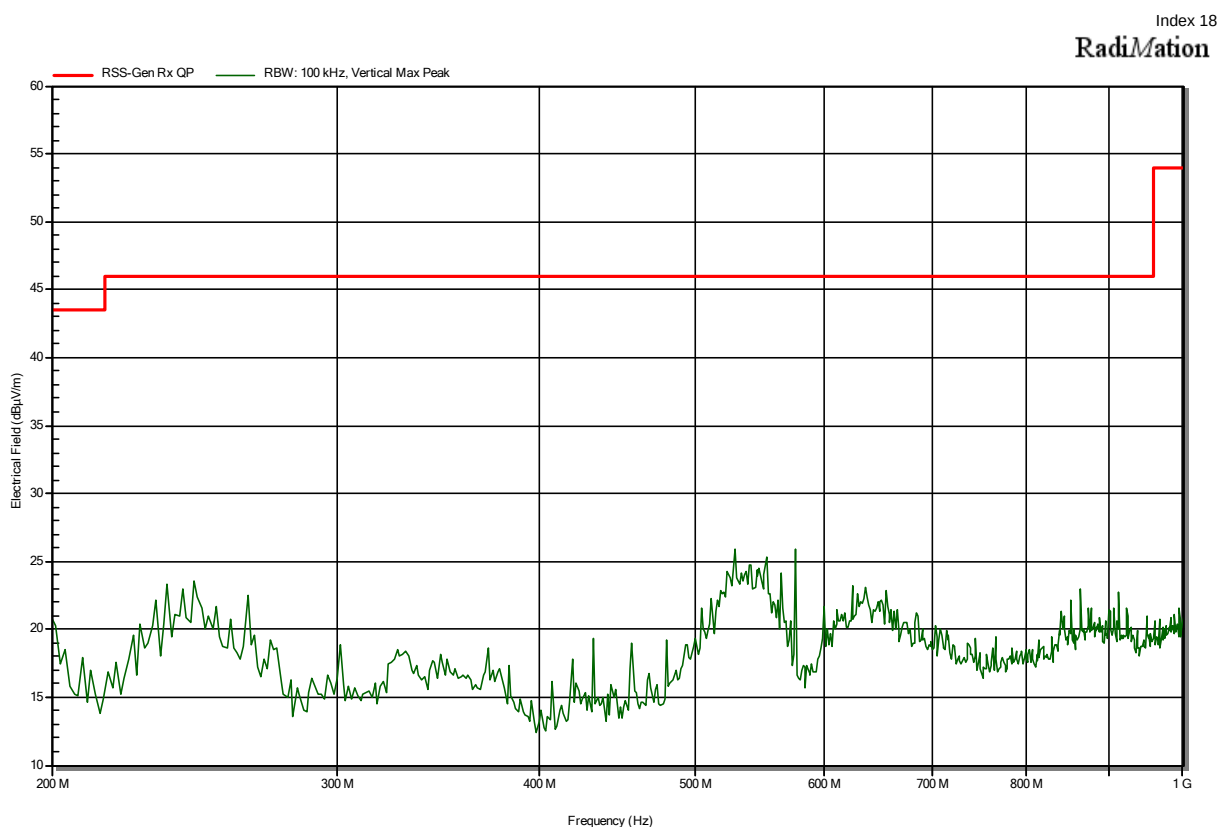
Radiated Spurious Emissions according to ISED RSS-247 Issue 2 (February 2017)

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: Rx; BTLE, Channel 19
 Test Date: 2020-11-09
 Note: EUT on side



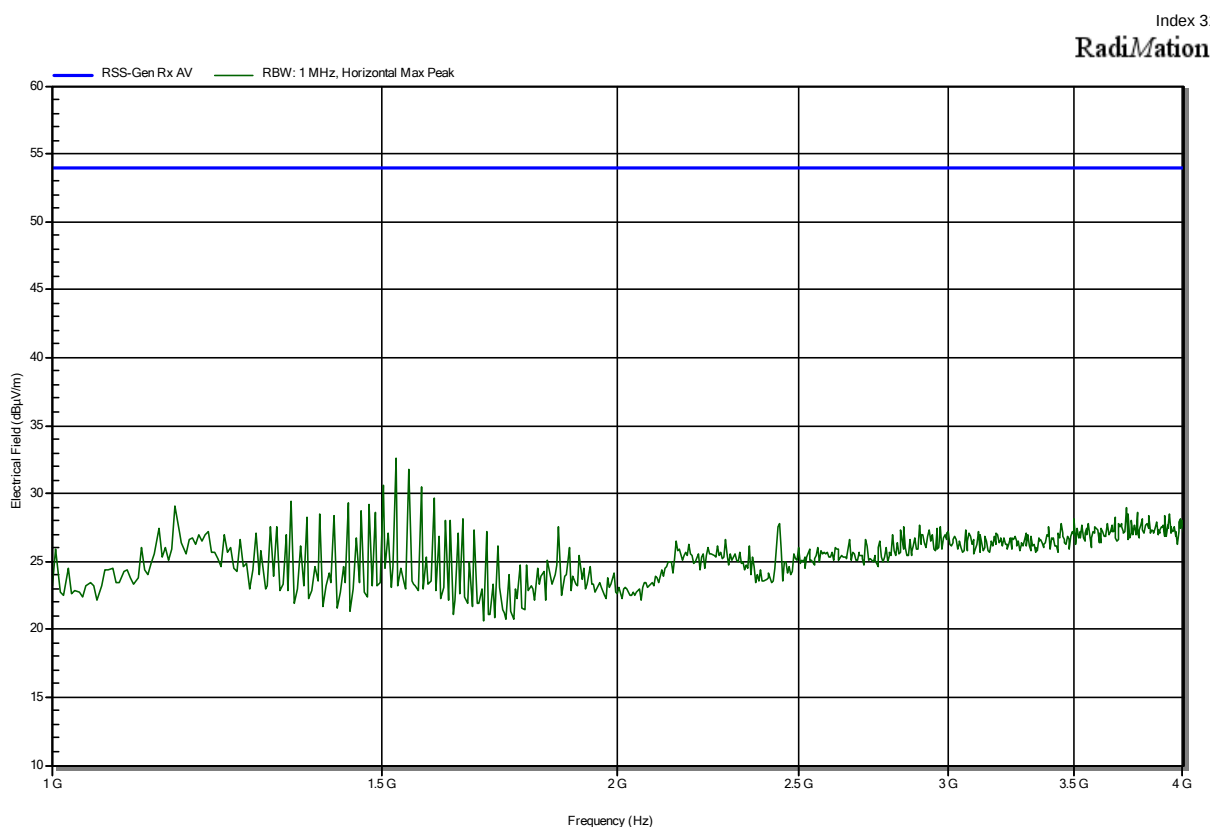
Radiated Spurious Emissions according to ISED RSS-247 Issue 2 (February 2017)

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: Rx; BTLE, Channel 19
 Test Date: 2020-11-09
 Note: EUT on side



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

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m, converted to 3 m
 Mode: Rx; BTLE, Channel 19
 Test Date: 2020-11-09
 Note: EUT on side

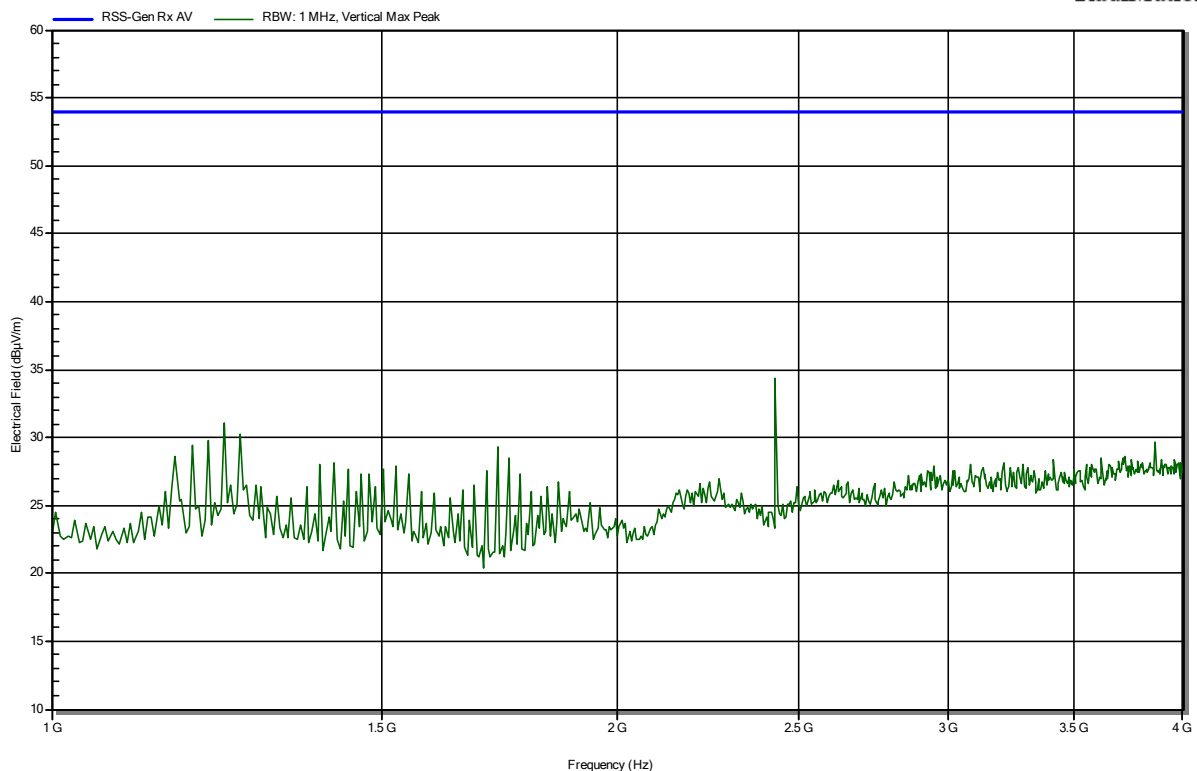


Radiated Spurious Emissions according to ISED RSS-247 Issue 2 (February 2017)

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m, converted to 3 m
 Mode: Rx; BTLE, Channel 19
 Test Date: 2020-11-09
 Note: EUT on side

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RadiMation

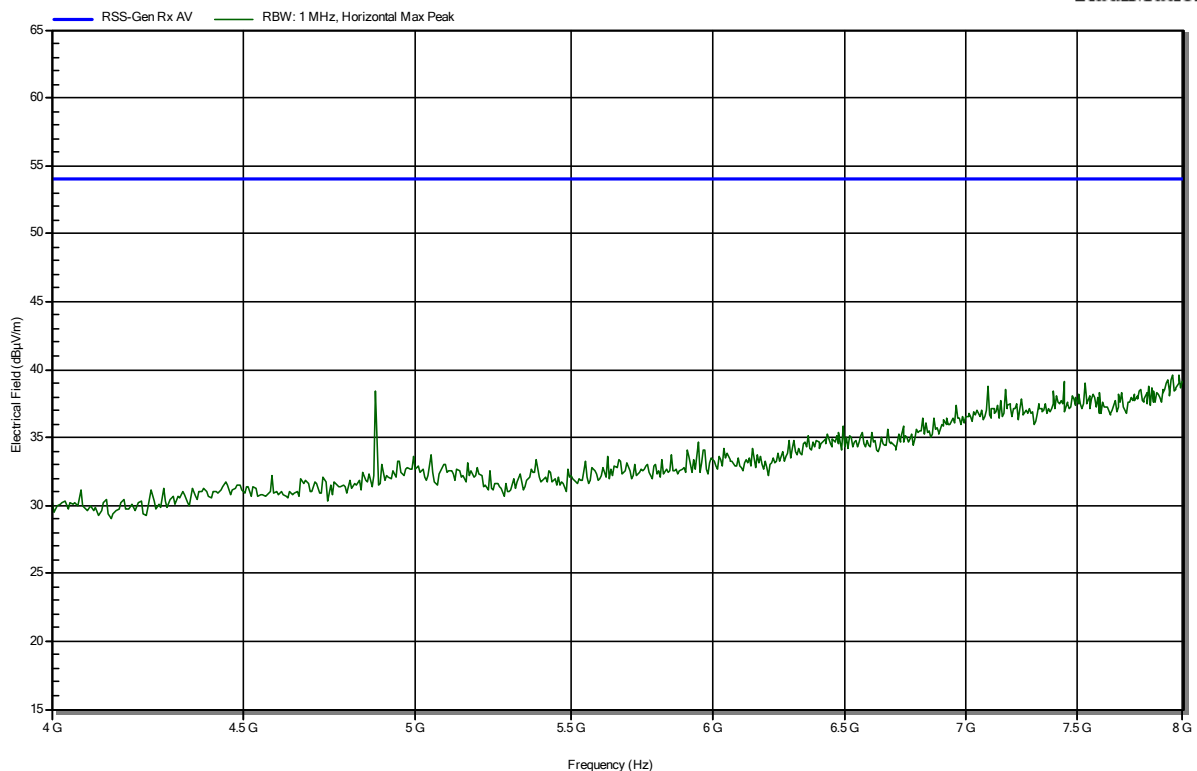


Radiated Spurious Emissions according to ISED RSS-247 Issue 2 (February 2017)

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m, converted to 3 m
 Mode: Rx; BTLE, Channel 19
 Test Date: 2020-11-09
 Note: EUT on side

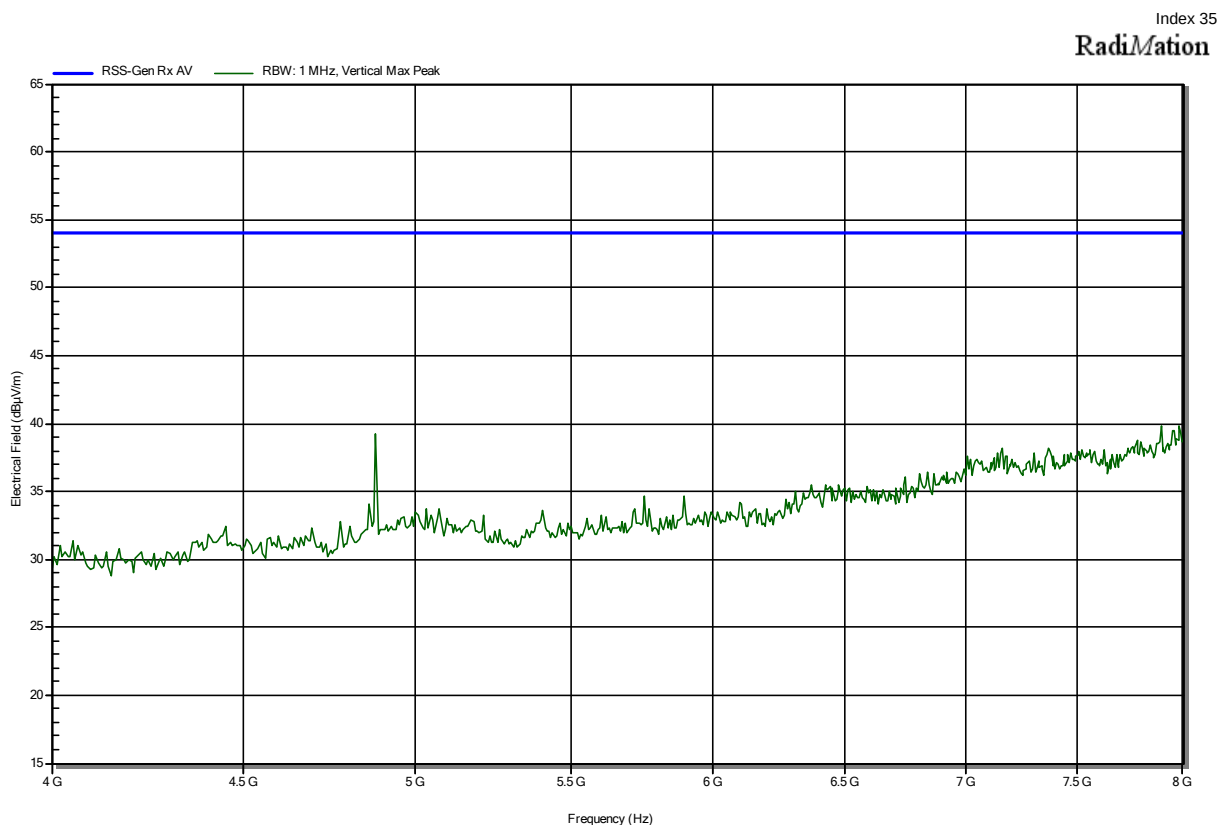
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RadiMation



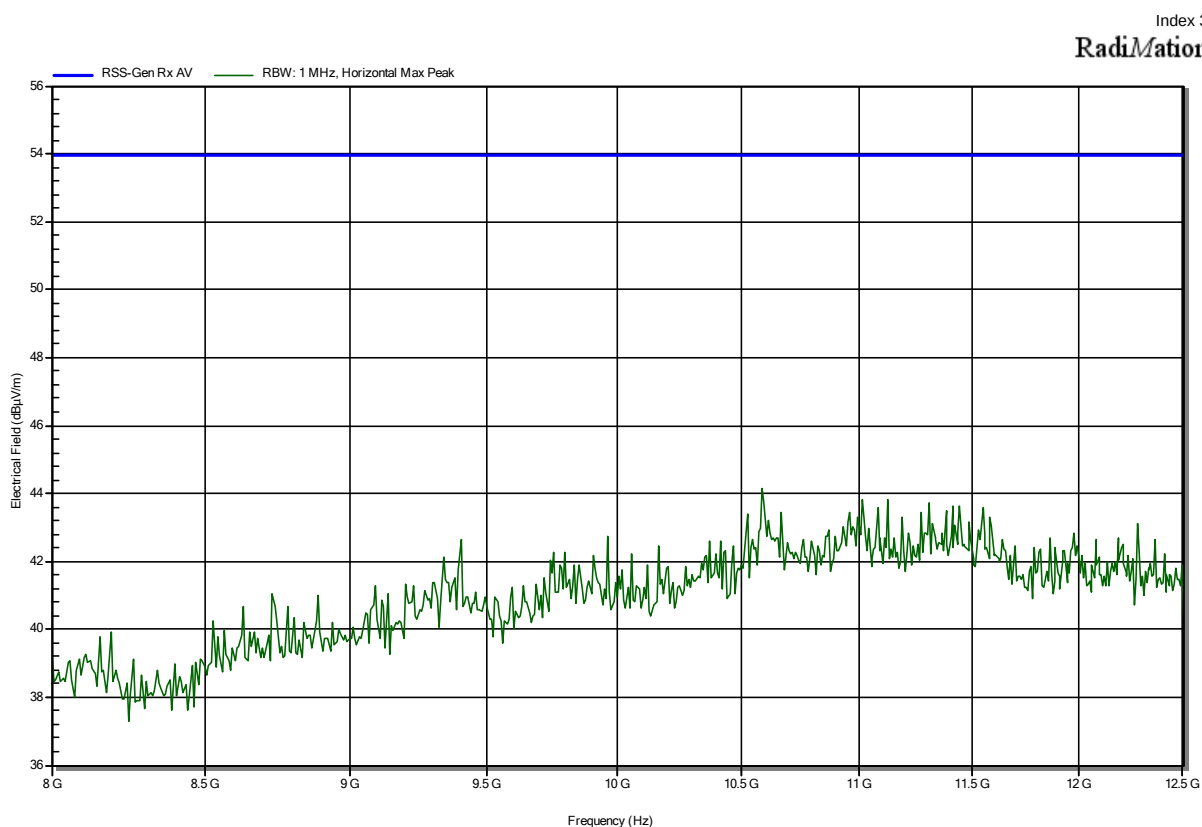
Radiated Spurious Emissions according to ISED RSS-247 Issue 2 (February 2017)

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m, converted to 3 m
 Mode: Rx; BTLE, Channel 19
 Test Date: 2020-11-09
 Note: EUT on side



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

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m, converted to 3 m
 Mode: Rx; BTLE, Channel 19
 Test Date: 2020-11-09
 Note: EUT on side

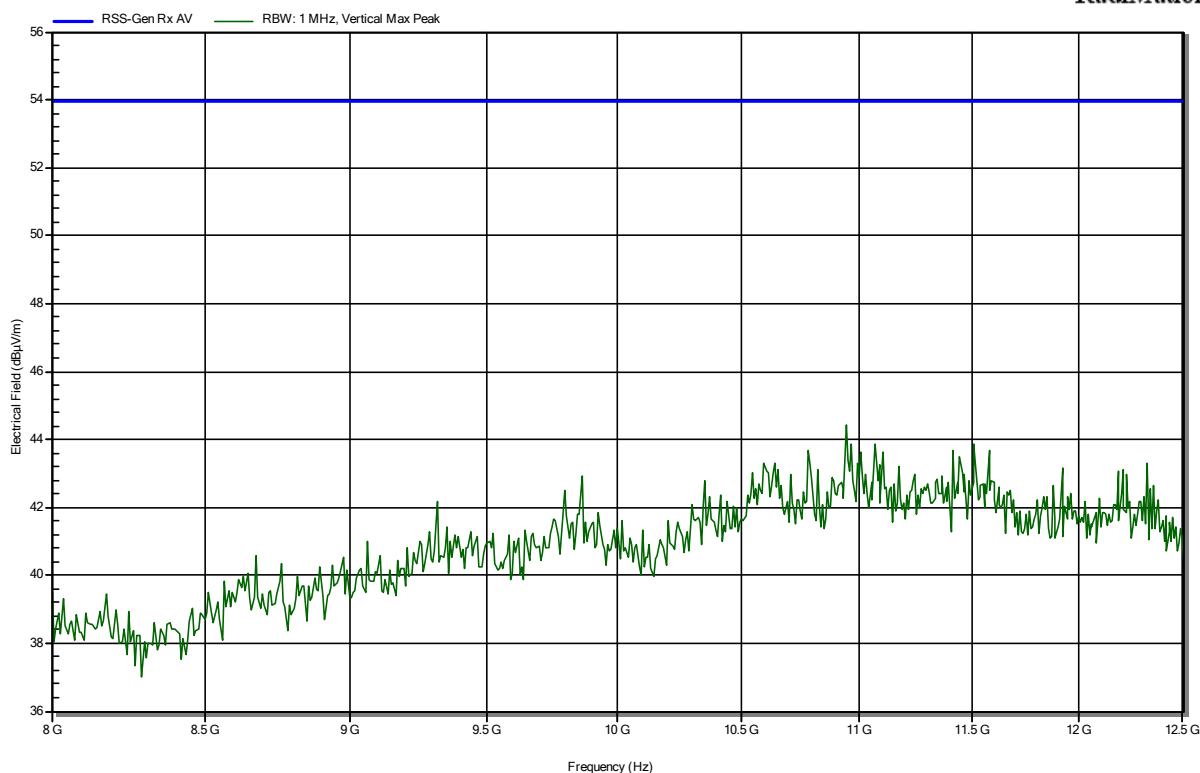


Radiated Spurious Emissions according to ISED RSS-247 Issue 2 (February 2017)

Project Number: G0M-2002-8799
 Applicant: Robert Bosch Tool Corporation
 Model Description: Laser Rangefinder
 Model: GLM165-27CG
 Test Sample ID: 31814
 Test Site: Eurofins Product Service GmbH
 Operator: Charline Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius,
 Vnom: 3.7VDC (Lithium accu charging via dedicated ac/dc adaptor)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m, converted to 3 m
 Mode: Rx; BTLE, Channel 19
 Test Date: 2020-11-09
 Note: EUT on side

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RadiMation



== = END OF TEST REPORT == =

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Eurofins Product Service GmbH
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