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-1905-8271-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	Leica Geosystems AG
Address	Heinrich Wild Strasse 9435 Heerbrugg SWITZERLAND
Test Specification	According to FCC/ISED rules
Standard	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	Imaging Laser Scanner
Model(s)	BLK2GO
Additional Model(s)	None
Brand Name(s)	Leica
Hardware Version(s)	HW Rev. B
Software Version(s)	EDM FPGA SW V1.3; Main_FPGA SW V0.4; Alcapone SW V.0.4.8; Android V. 3.1
FCC-ID	RFD-BLK2GO
IC	3177A-BLK2GO
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	2019-07-15	
Report:		
Compiled by	Toralf Jahn	
Tested by (+ signature) (Responsible for Test)	Toralf Jahn	 .....
Approved by (+ signature) (Head of Lab)	Christian Weber	 .....
Date of Issue	2019-09-06	
Total number of pages	78	
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:		

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2019-09-06	Initial Release	

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
BR	Bluetooth Basic 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

REPORT INDEX

1 Equipment (Test Item) Under Test

Description	Imaging Laser Scanner	
Model	BLK2GO	
Additional Model(s)	None	
Brand Name(s)	Leica	
Serial Number(s)	3630046	
Hardware Version(s)	HW Rev. B	
Software Version(s)	EDM FPGA SW V1.3; Main_FPGA SW V0.4; Alcapone SW V.0.4.8; Android V. 3.1	
PMN	BLK2GO	
HVIN	BLK2GO	
FVIN	EDM FPGA SW V1.3 - MAIN_FGPA SW V0.4 - ALCAPONE SW V0.4.8 - ANDROID V3.1	
HMN	-	
FCC-ID	RFD-BLK2GO	
IC	3177A-BLK2GO	
Equipment type	End Product	
Radio type	Transceiver	
Assigned frequency bands	2400 - 2483.5 MHz	
Radio technology	Bluetooth	
Modulation	GFSK	
Number of antenna ports	1	
Radio Module	Type	Bluetooth, WLAN
	Model	NFA324A-12H32
	Manufacturer	Foxconn
	HW Version	V02
	SW Version	BSP 3.1
Antenna	Type	Integral
	Model	2458N (120-232-01)
	Manufacturer	Wepotec electronic solutions gmbh
	Gain	-2.9 dBi
Supply Voltage	V_{NOM}	7.2 VDC battery
Operating Temperature	T_{NOM}	20 °C
AC/DC-Adaptor	Model	None
	Vendor	None
	Input	None
	Output	None
Manufacturer	Leica Geosystems AG Heinrich Wild Strasse 9435 Heerbrugg SWITZERLAND	

1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	Laptop	Lenovo	T440	Disconnected during measurements.
SFT	Radio Control Toolkit	Qualcomm	QRCT	Setting radio parameters.
CBL	USB cable	AUKEY	USB 3.0	For test mode only. Setting radio parameters. Connected during measurements.
AE	External batterie adaptor	Leica	GLK821	For test mode only. Connected during measurements.
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment:				

1.5 Test Modes

Mode	Description
DH5 Single	Mode = Transmit Modulation = GFSK Spreading = None Packet type = DH5 Duty cycle = 78% Power level = 9 (stand alone mode, PRBS)
Receive	Mode = Receive (Scan)
Comment: Bluetooth stand alone test mode. No signaling device used.	

1.6 Test Frequencies

Designator	Mode	Channel	Frequency [MHz]
F1	Tx / Rx	0	2402
F2	Tx / Rx	39	2441
F3	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:

Reading on Analyzer (dBµV) + A.F. (dB/m) = Net field strength (dBµV/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:

Limit (dBµV/m) = 20*log (µV/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	N/T	
FCC § 15.247(a)(1)(iii) ISED RSS-247, Issue 2 (section 5.1)	Number of hopping frequencies	ANSI C63.10-2013	N/T	
FCC § 15.247(a)(1) ISED RSS-247, Issue 2 (section 5.1)	Frequency hopping channel separation	ANSI C63.10-2013	N/T	
FCC § 15.247(a)(1)(iii) ISED RSS-247, Issue 2 (section 5.1)	Time of occupancy (Dwell time)	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 § 15.207 ISED RSS-247, Issue 2 (section 3.1)	AC power line conducted emissions	ANSI C63.10-2013	N/R	No direct or indirect connection to AC power line
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 - Occupied bandwidth

3.1.1 Information

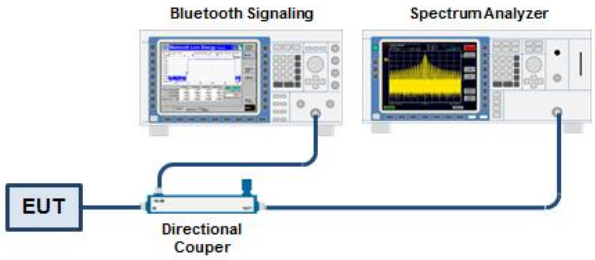
Test Information	
Reference	ISED RSS-Gen, Issue 5 (section 6.6)
Measurement Method	ANSI C63.10 6.9.3
Operator	Toralf Jahn
Date	2019-07-22

3.1.2 Limits

Limits
None (Informational only)

3.1.3 Setup

Test Setup



3.1.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSIQ 26	EF00151	2018-07	2019-07

3.1.5 Procedure

Test Procedure

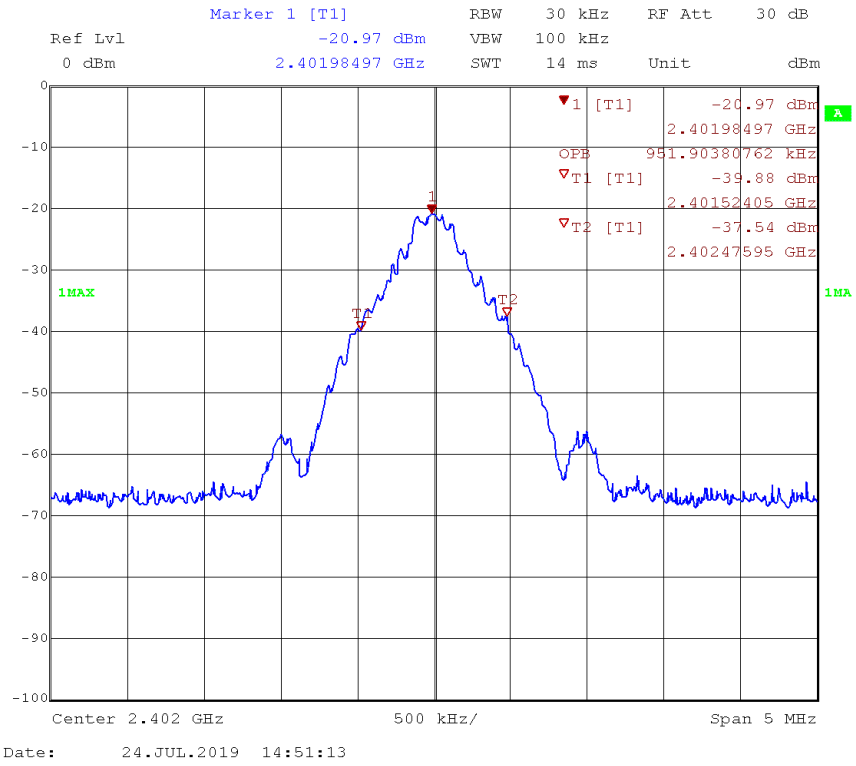
1. EUT transmitter is activated in test mode under normal conditions
2. The spectrum analyzer is set to peak detection and maximum hold with a span twice the emission spectrum
3. The resolution bandwidth is set to the range of 1 % to 5 % of the occupied bandwidth
4. The occupied bandwidth is measured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

3.1.6 Results

Test Results		
Mode	Frequency [MHz]	Bandwidth [MHz]
DH5	2402	0.952
DH5	2441	0.952
DH5	2480	0.942

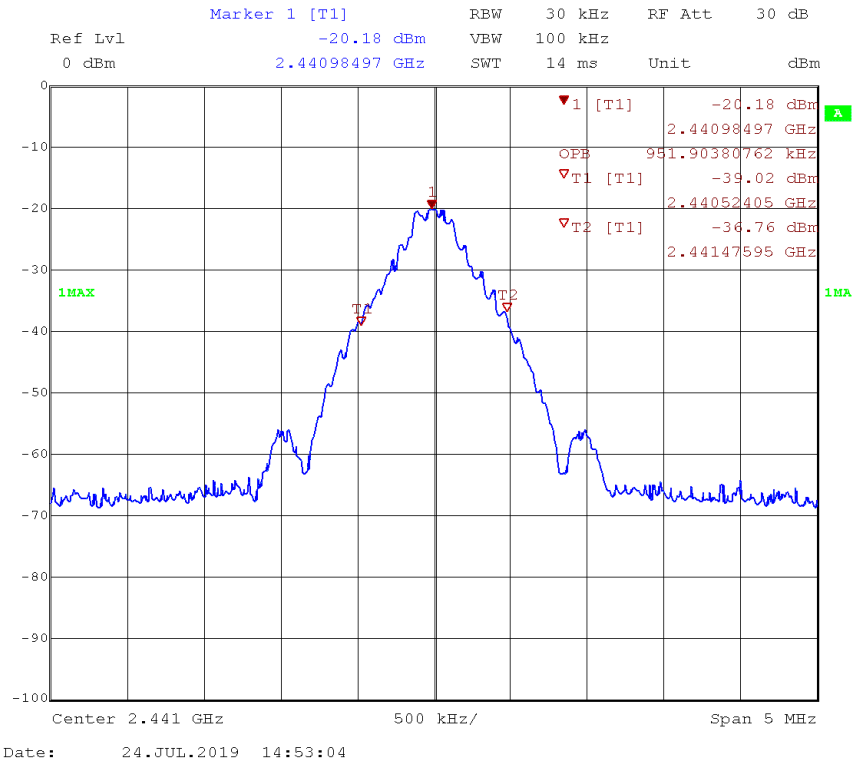
Occupied Bandwidth

Project Number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
Model Description:	Imaging Laser Scanner
Model:	BLK2GO
Test Sample ID:	24664
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:	Toralf Jahn
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-07-24
Note:	Bluetooth
Occupied Bandwidth [MHz]:	0.952



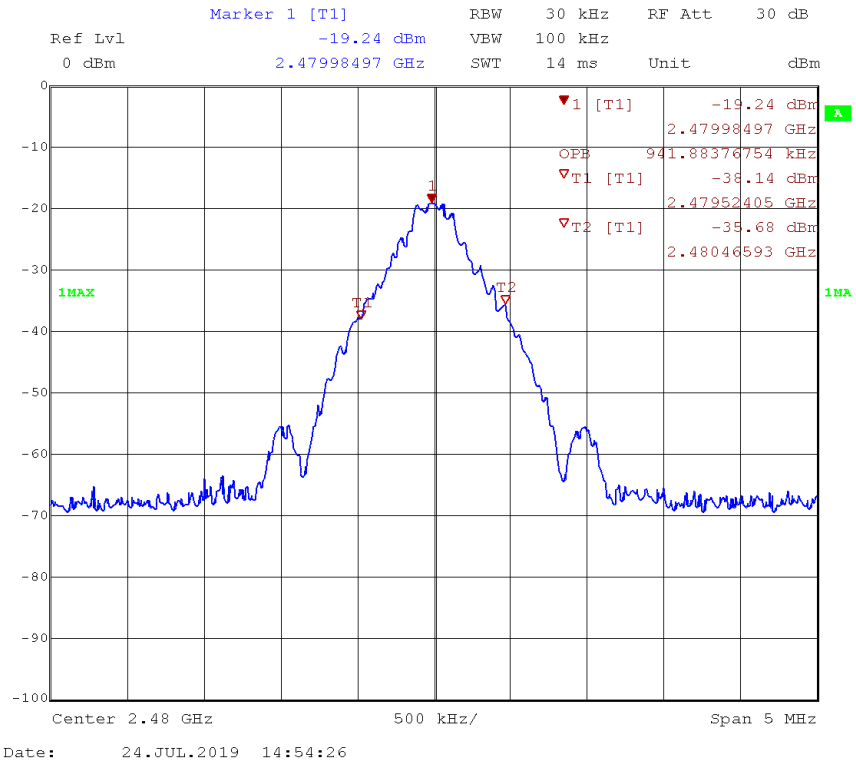
Occupied Bandwidth

Project Number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
Model Description:	Imaging Laser Scanner
Model:	BLK2GO
Test Sample ID:	24664
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:	Toralf Jahn
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-07-24
Note:	Bluetooth
Occupied Bandwidth [MHz]:	0.952



Occupied Bandwidth

Project Number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
Model Description:	Imaging Laser Scanner
Model:	BLK2GO
Test Sample ID:	24664
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:	Toralf Jahn
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-07-24
Note:	Bluetooth
Occupied Bandwidth [MHz]:	0.942



3.2 Test Conditions and Results - Transmitter radiated emissions

3.2.1 Information

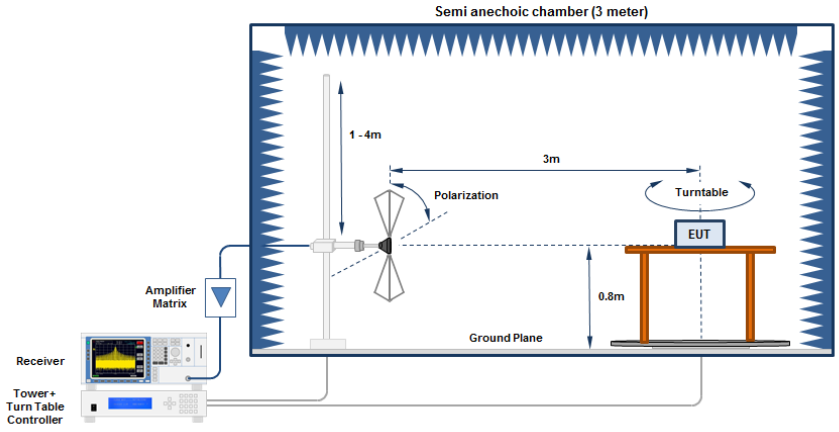
Test Information	
Reference	FCC § 15.247(d); FCC § 15.209; ISED RSS-Gen, Issue 5 (section 6.13)
Measurement Method	ANSI C63.10 6.4, 6.5, 6.6
Operator	Toralf Jahn
Date	2019-07-22

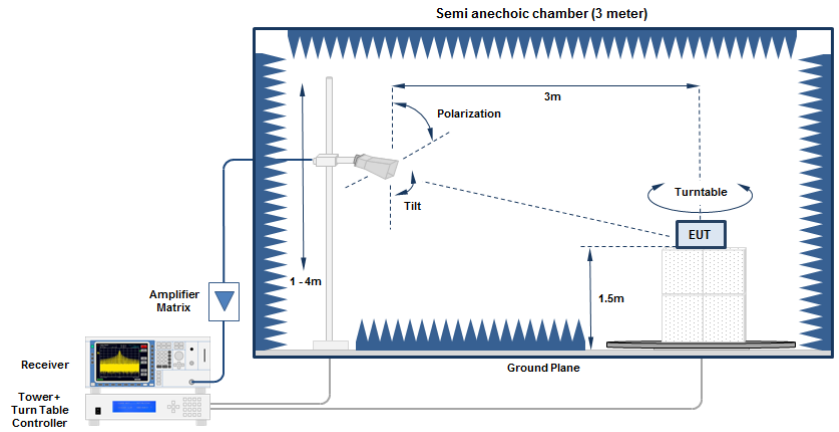
3.2.2 Limits

Limits			
Frequency [MHz]	Detector	Field strength [µV/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

Test Setup 30 - 1000 MHz



Test Setup > 1 GHz


3.2.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2015.2.4

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	2018-08	2019-08
Antenna	R&S	VULB 9162	EF00978	2016-11	2019-11
Antenna	R&S	HK 116	EF00030	2019-04	2022-04
Antenna	R&S	HL 223	EF00187	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	2018-08	2019-08
Antenna	Schwarzbeck	BBHA 9120D	EF01153	2018-09	2019-09

3.2.5 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

3.2.6 Results

Test Results - DH5						
Channel [MHz]	Emission [MHz]	Level [dBµV/m]	Det.	Pol.	Limit [dBµV/m]	Margin [dB]
2402	110.8805	28.70	qpk	hor	43.50	-14.80
2402	111.3303	36.30	qpk	ver	43.50	-07.26
2402	609.6666	38.60	qpk	ver	46.00	-07.41
2441	110.8859	28.80	qpk	hor	43.50	-14.68
2441	111.3309	36.30	qpk	ver	43.50	-07.26
2441	608.2856	38.60	qpk	ver	46.00	-07.44
2441	608.3876	38.60	qpk	hor	46.00	-07.40
2480	111.3302	29.00	qpk	hor	43.50	-14.51
2480	111.3363	36.20	qpk	ver	43.50	-07.36
2402	611.6482	38.30	pk	ver	46.00	-07.66
2402	1073	37.24	pk	hor	74.00	-36.76
2402	1498	41.82	pk	ver	74.00	-32.18
2402	1499	36.36	pk	hor	74.00	-37.64
2402	7496	41.37	pk	ver	74.00	-32.63
2402	14500	45.25	pk	hor	74.00	-28.75
2402	23821	42.60	pk	hor	74.00	-31.40
2441	1406	40.03	pk	ver	74.00	-33.97
2441	1498.4	38.05	pk	hor	74.00	-35.95
2441	7456	40.49	pk	hor	74.00	-33.51
2441	7504	39.80	pk	ver	74.00	-34.20
2441	14480	44.82	pk	ver	74.00	-29.18
2441	14490	45.46	pk	hor	74.00	-28.54
2480	1406	39.56	pk	ver	74.00	-34.44
2480	1498	37.39	pk	hor	74.00	-36.61
2480	7336	40.76	pk	hor	74.00	-33.24
2480	7480	40.89	pk	ver	74.00	-33.11
2480	14490	45.86	pk	hor	74.00	-28.14
2480	14500	45.36	pk	ver	74.00	-28.64

3.3 Test Conditions and Results - Receiver radiated emissions

3.3.1 Information

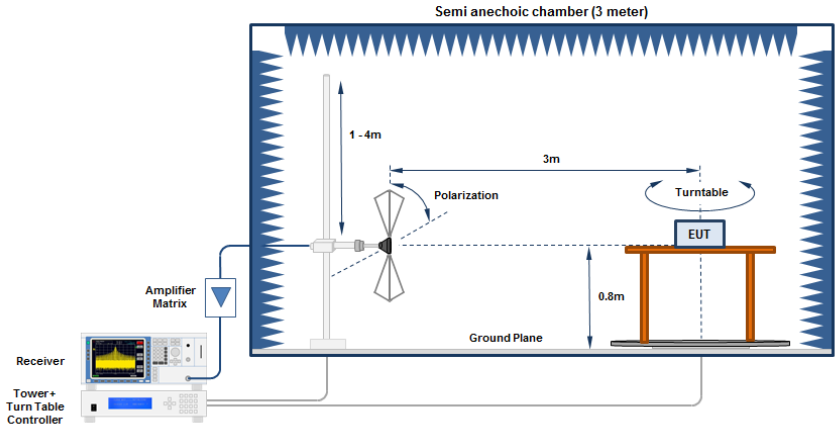
Test Information	
Reference	ISED RSS-247, Issue 2 (section 3.1)
Measurement Method	ANSI C63.10 6.5, 6.6
Operator	Toralf Jahn
Date	2019-08-22

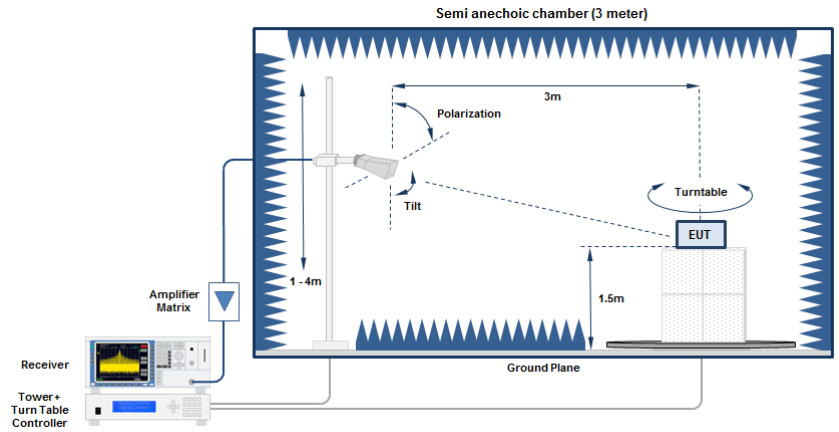
3.3.2 Limits

Limits			
Frequency [MHz]	Detector	Field strength [dBµV/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

Test Setup 30 - 1000 MHz



Test Setup > 1 GHz


3.3.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2015.2.4

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	2018-08	2019-08
Antenna	R&S	HK 116	EF00030	2019-04	2022-04
Antenna	R&S	HL 223	EF00187	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	2018-08	2019-08
Antenna	Schwarzbeck	BBHA 9120D	EF00018	2016-09	2019-09

3.3.5 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

3.3.6 Results

Test Results						
Channel [MHz]	Emission [MHz]	Level [dBµV/m]	Det.	Pol.	Limit [dBµV/m]	Margin [dB]
Rx scan mode	110.8805	30.90	pk	hor	43.50	-12.58
Rx scan mode	110.8805	28.20	qpk	hor	43.50	-15.29
Rx scan mode	110.8859	39.00	pk	ver	43.50	-04.48
Rx scan mode	110.8859	37.30	qpk	ver	43.50	-06.25
Rx scan mode	531.2456	39.60	pk	hor	46.00	-06.37
Rx scan mode	531.2456	37.90	qpk	hor	46.00	-08.07
Rx scan mode	531.2518	45.20	pk	ver	46.00	-00.79
Rx scan mode	531.2518	44.40	qpk	ver	46.00	-01.64
Rx scan mode	1498	41.24	pk	hor	53.98	-12.74
Rx scan mode	1498	44.44	pk	ver	53.98	-09.54
Rx scan mode	7840	41.03	pk	ver	53.98	-12.95
Rx scan mode	7992	41.68	pk	hor	53.98	-12.30
Rx scan mode	10350	43.94	pk	hor	53.98	-10.04
Rx scan mode	10840	44.04	pk	ver	53.98	-09.94

ANNEX A Transmitter spurious emissions

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 23°C, Vnom: 7.2 VDC battery
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; BT, Power 9, CH 0
Test Date:	2019-07-25
Note:	

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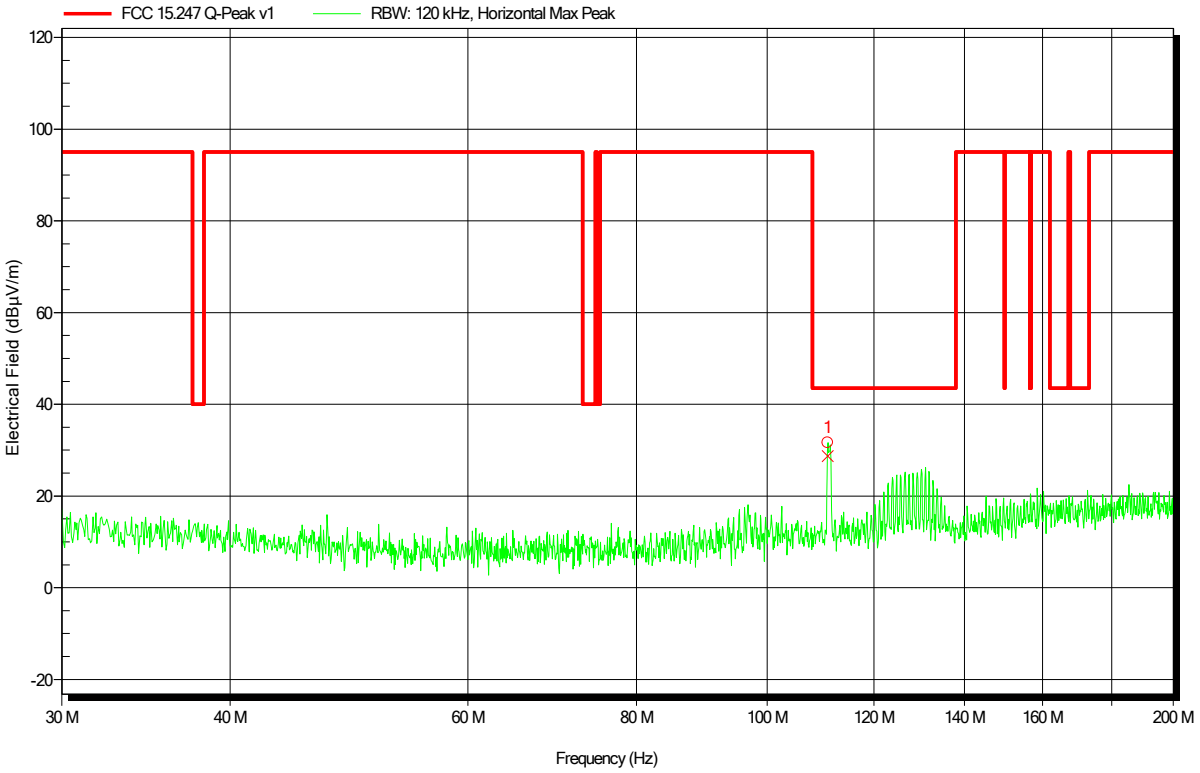

Frequency	Peak	Peak Limit	Peak Difference	Status
110.8805 MHz	31.6 dBµV/m	43.5 dBµV/m	-11.91 dB	Pass

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
110.8805 MHz	28.7 dBµV/m	43.5 dBµV/m	-14.8 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 23°C, Vnom: 7.2 VDC battery
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; BT, Power 9, CH 0
Test Date:	2019-07-25
Note:	

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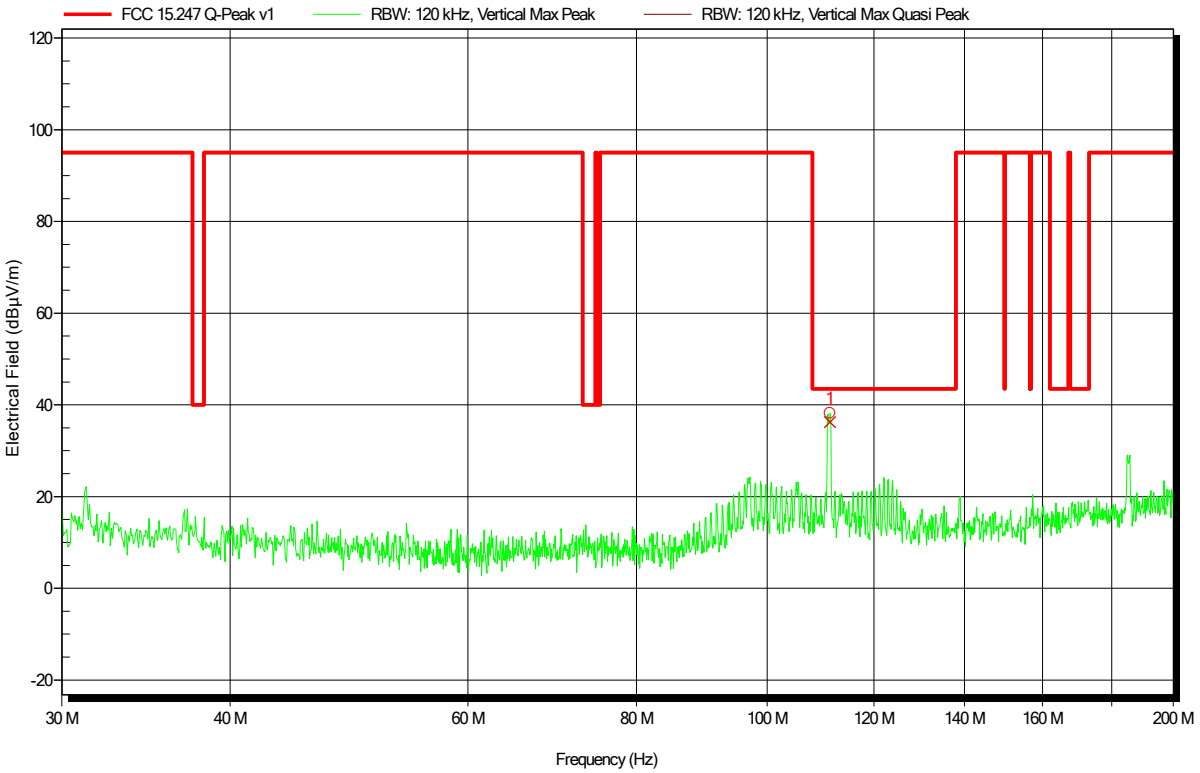

Frequency	Peak	Peak Limit	Peak Difference	Status
111.3303 MHz	38.2 dBµV/m	43.5 dBµV/m	-5.33 dB	Pass

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
111.3303 MHz	36.3 dBµV/m	43.5 dBµV/m	-7.26 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 23°C, Vnom: 7.2 VDC battery
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; BT, Power 9, CH 0
Test Date:	2019-07-25
Note:	

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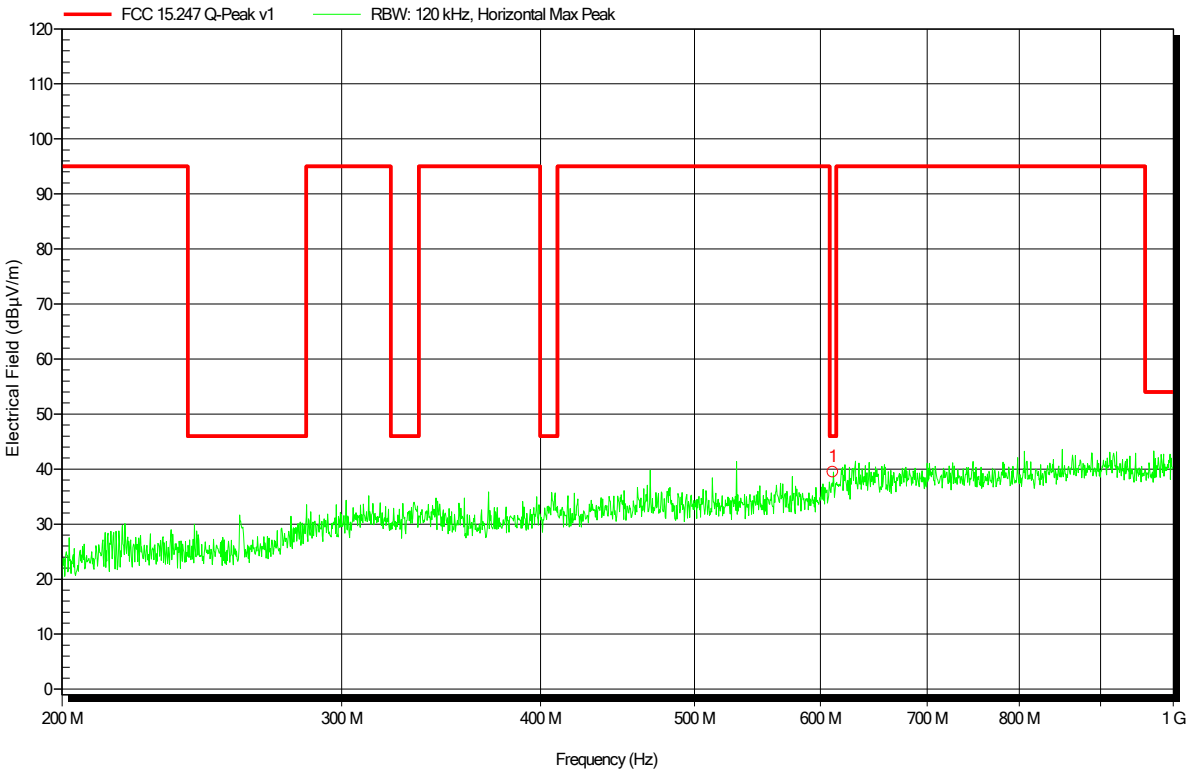

Frequency	Peak	Peak Limit	Peak Difference	Status
610.8074 MHz	39.4 dBµV/m	46 dBµV/m	-6.56 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 23°C, Vnom: 7.2 VDC battery
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; BT, Power 9, CH 0
Test Date:	2019-07-25
Note:	

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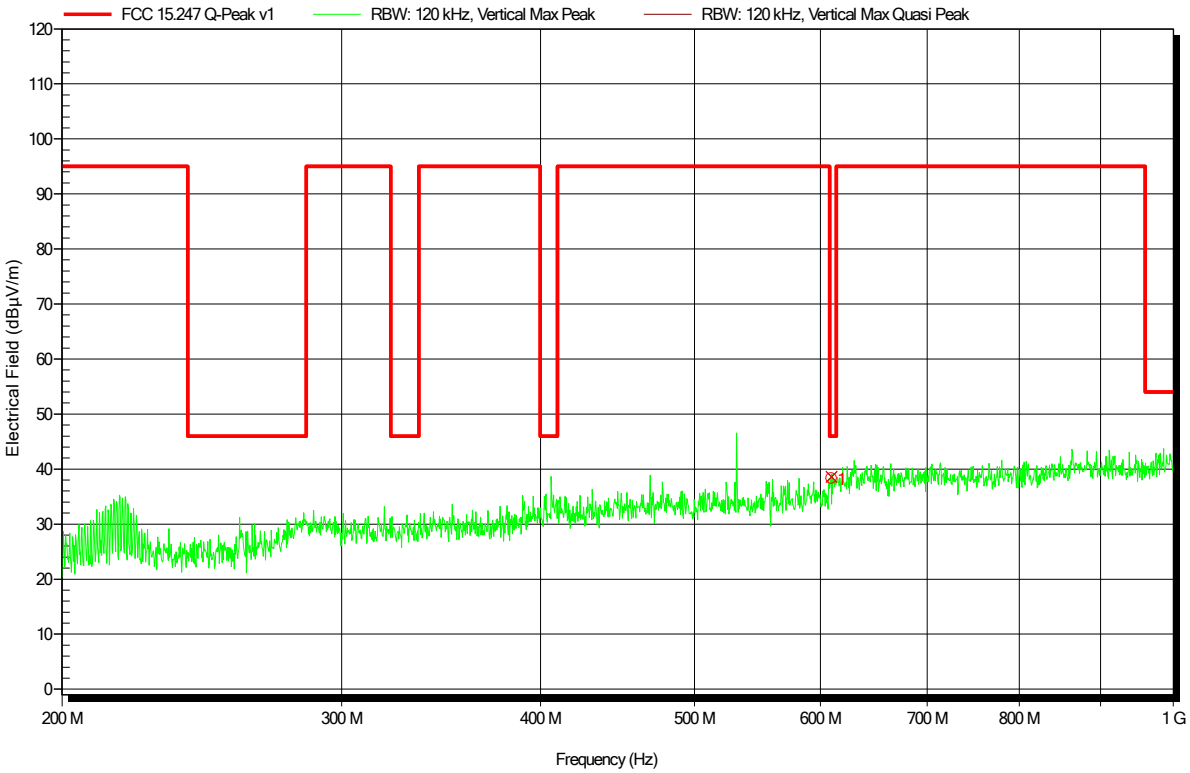

Frequency	Peak	Peak Limit	Peak Difference	Status
609.6666 MHz	38.3 dBµV/m	46 dBµV/m	-7.71 dB	Pass

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
609.6666 MHz	38.6 dBµV/m	46 dBµV/m	-7.41 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 23°C, Vnom: 7.2 VDC battery
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; BT, Power 9, CH 39
Test Date:	2019-07-25
Note:	

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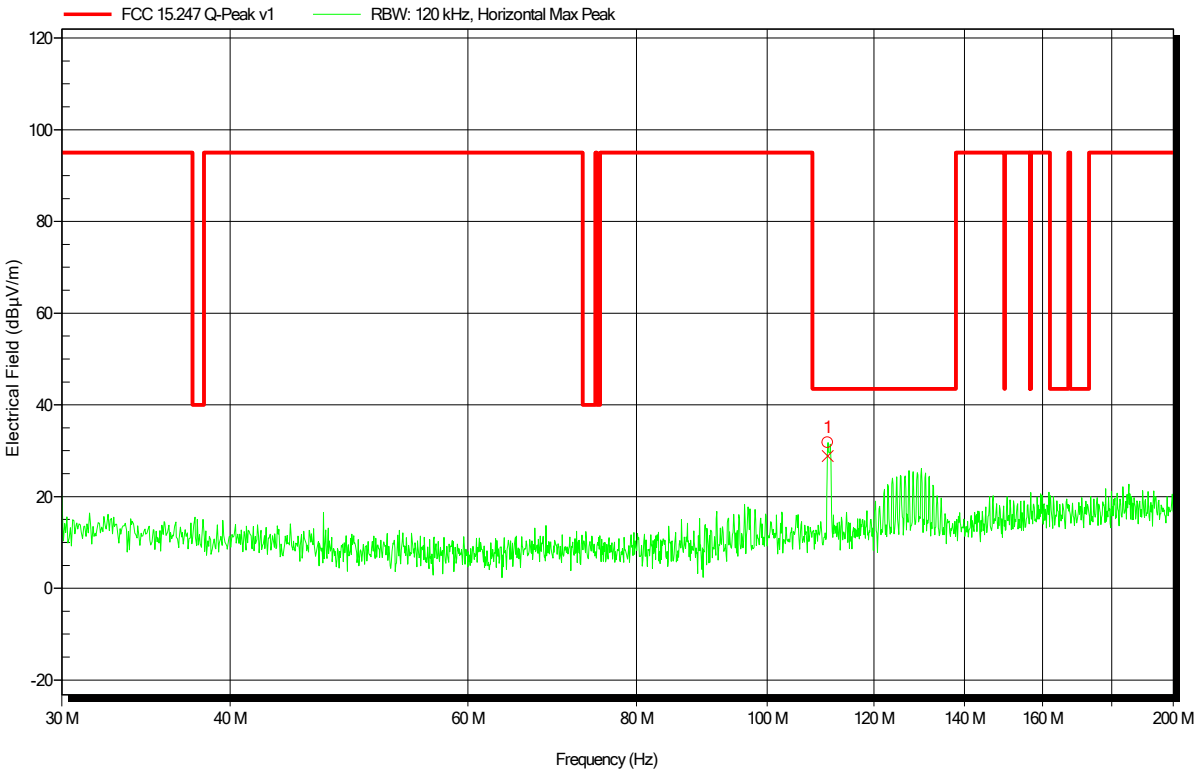

Frequency	Peak	Peak Limit	Peak Difference	Status
110.8859 MHz	31.8 dBµV/m	43.5 dBµV/m	-11.73 dB	Pass

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
110.8859 MHz	28.8 dBµV/m	43.5 dBµV/m	-14.68 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 23°C, Vnom: 7.2 VDC battery
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; BT, Power 9, CH 39
Test Date:	2019-07-25
Note:	

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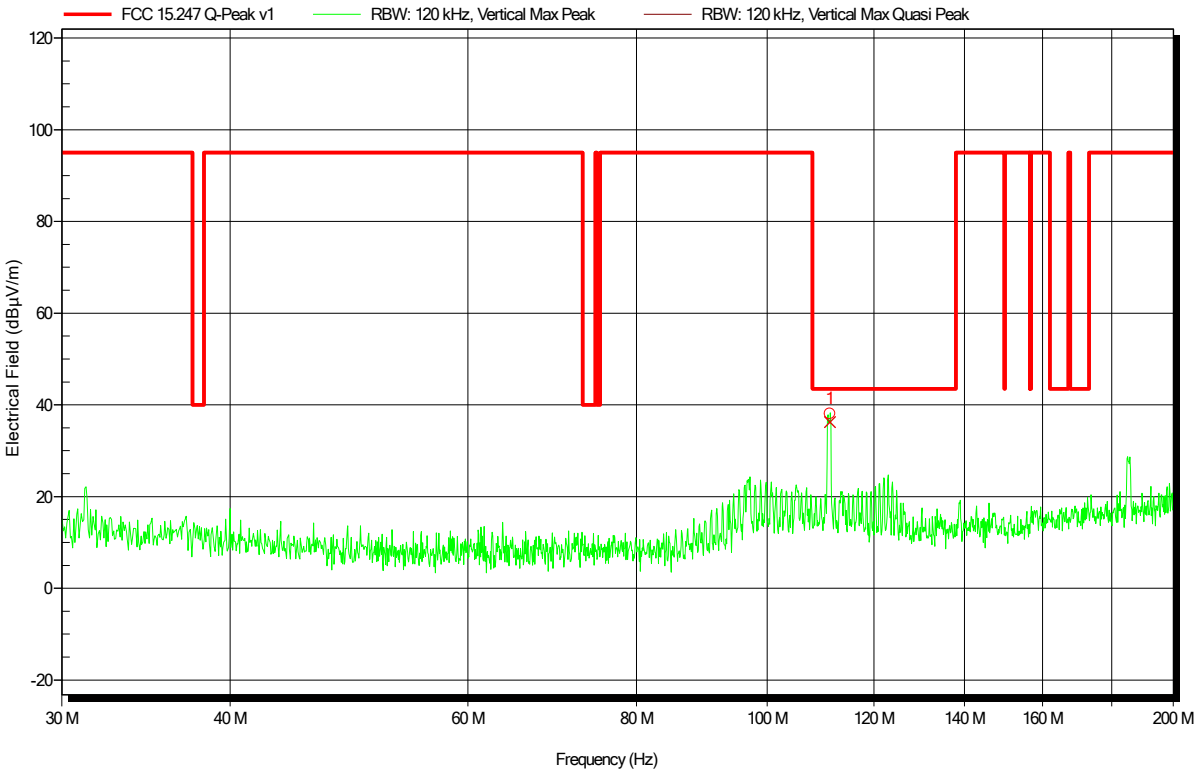

Frequency	Peak	Peak Limit	Peak Difference	Status
111.3309 MHz	38.1 dBµV/m	43.5 dBµV/m	-5.44 dB	Pass

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
111.3309 MHz	36.3 dBµV/m	43.5 dBµV/m	-7.26 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 23°C, Vnom: 7.2 VDC battery
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; BT, Power 9, CH 39
Test Date:	2019-07-25
Note:	

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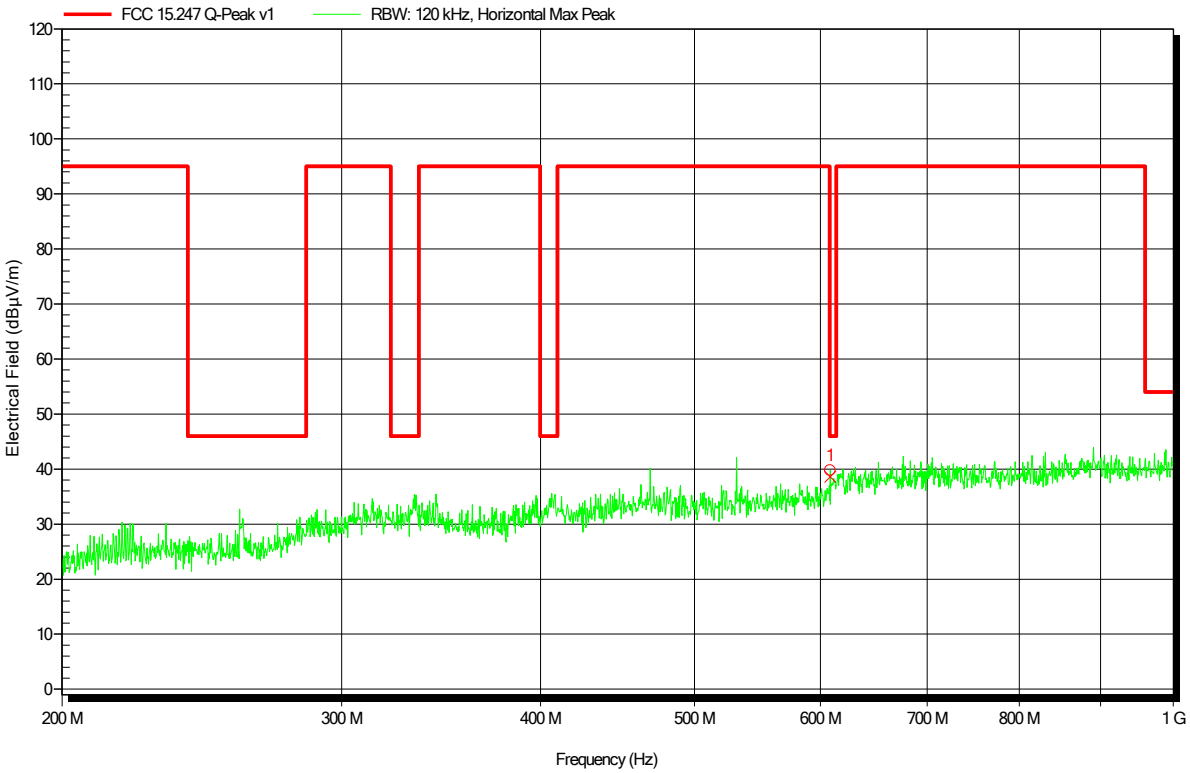

Frequency	Peak	Peak Limit	Peak Difference	Status
608.3876 MHz	39.8 dBµV/m	46 dBµV/m	-6.24 dB	Pass

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
608.3876 MHz	38.6 dBµV/m	46 dBµV/m	-7.4 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 23°C, Vnom: 7.2 VDC battery
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; BT, Power 9, CH 39
Test Date:	2019-07-25
Note:	

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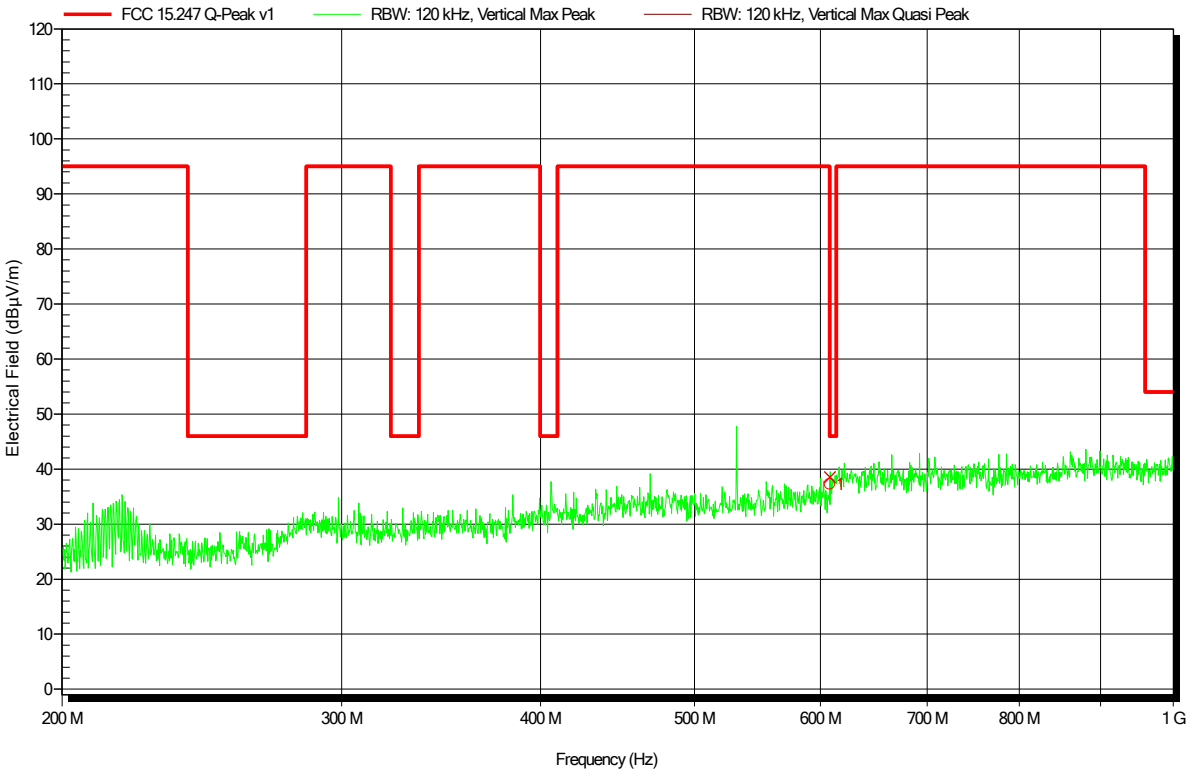

Frequency	Peak	Peak Limit	Peak Difference	Status
608.2856 MHz	37.3 dBµV/m	46 dBµV/m	-8.74 dB	Pass

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
608.2856 MHz	38.6 dBµV/m	46 dBµV/m	-7.44 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 23°C, Vnom: 7.2 VDC battery
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; BT, Power 9, CH 78
Test Date:	2019-07-25
Note:	

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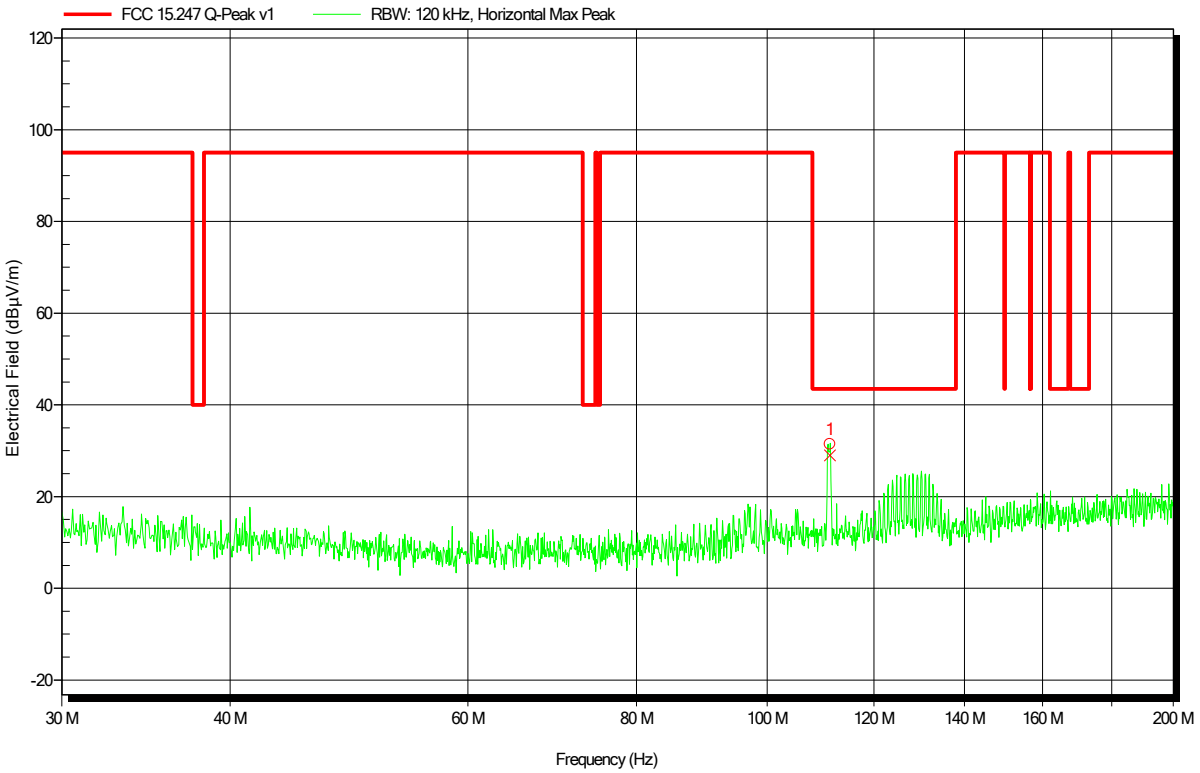

Frequency	Peak	Peak Limit	Peak Difference	Status
111.3302 MHz	31.4 dBµV/m	43.5 dBµV/m	-12.09 dB	Pass

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
111.3302 MHz	29 dBµV/m	43.5 dBµV/m	-14.51 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 23°C, Vnom: 7.2 VDC battery
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; BT, Power 9, CH 78
Test Date:	2019-07-25
Note:	

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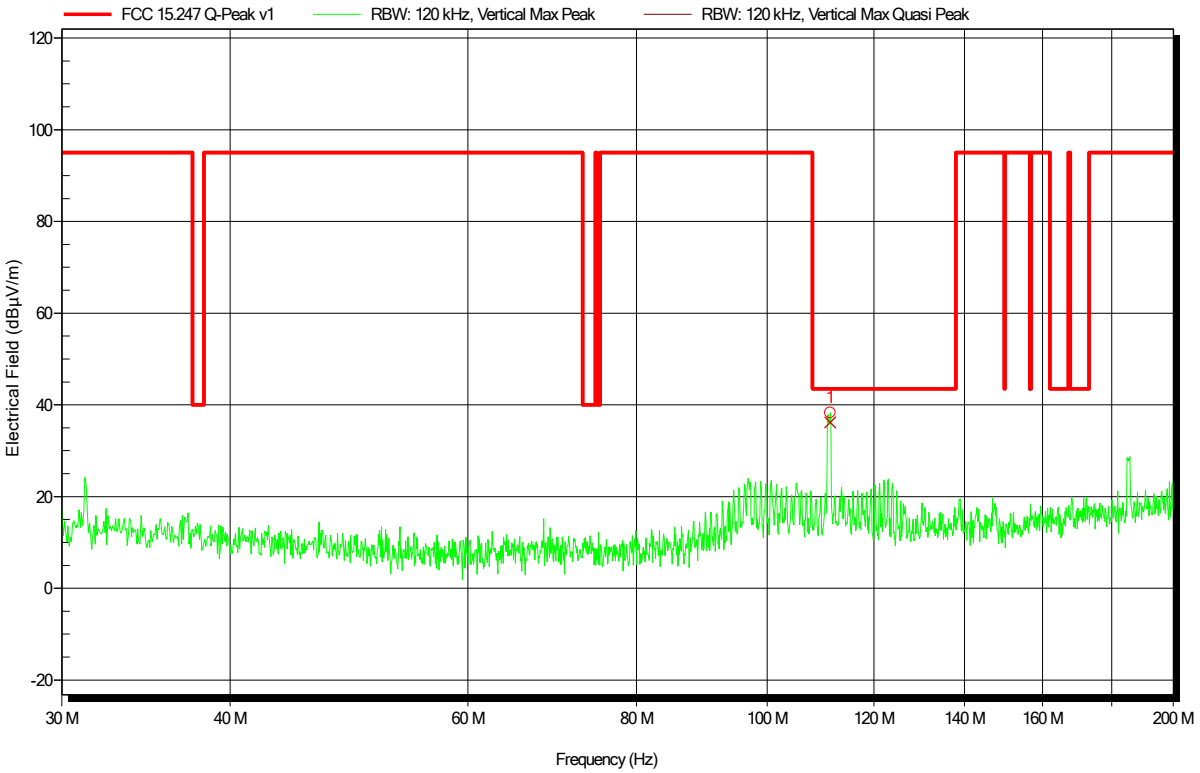

Frequency	Peak	Peak Limit	Peak Difference	Status
111.3363 MHz	38.3 dBµV/m	43.5 dBµV/m	-5.26 dB	Pass

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
111.3363 MHz	36.2 dBµV/m	43.5 dBµV/m	-7.36 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 23°C, Vnom: 7.2 VDC battery
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; BT, Power 9, CH 78
Test Date:	2019-07-25
Note:	

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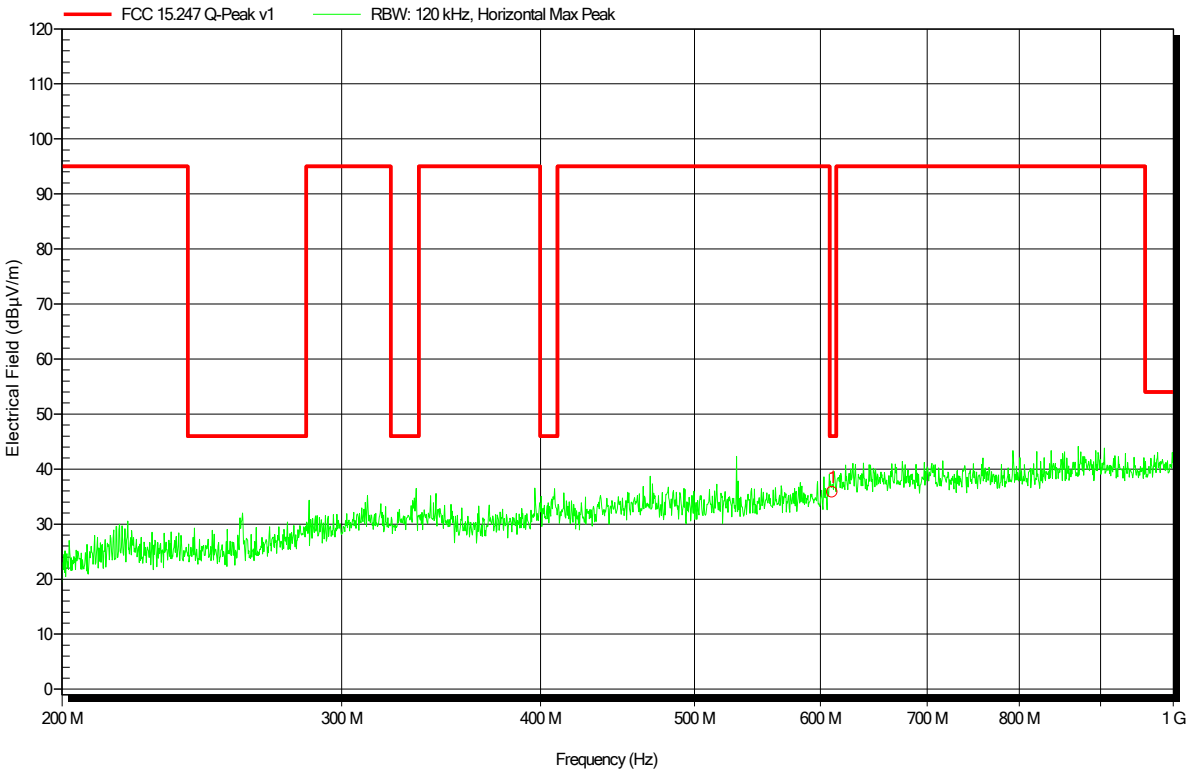

Frequency	Peak	Peak Limit	Peak Difference	Status
610.1469 MHz	35.8 dBµV/m	46 dBµV/m	-10.18 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 23°C, Vnom: 7.2 VDC battery
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; BT, Power 9, CH 78
Test Date:	2019-07-25
Note:	

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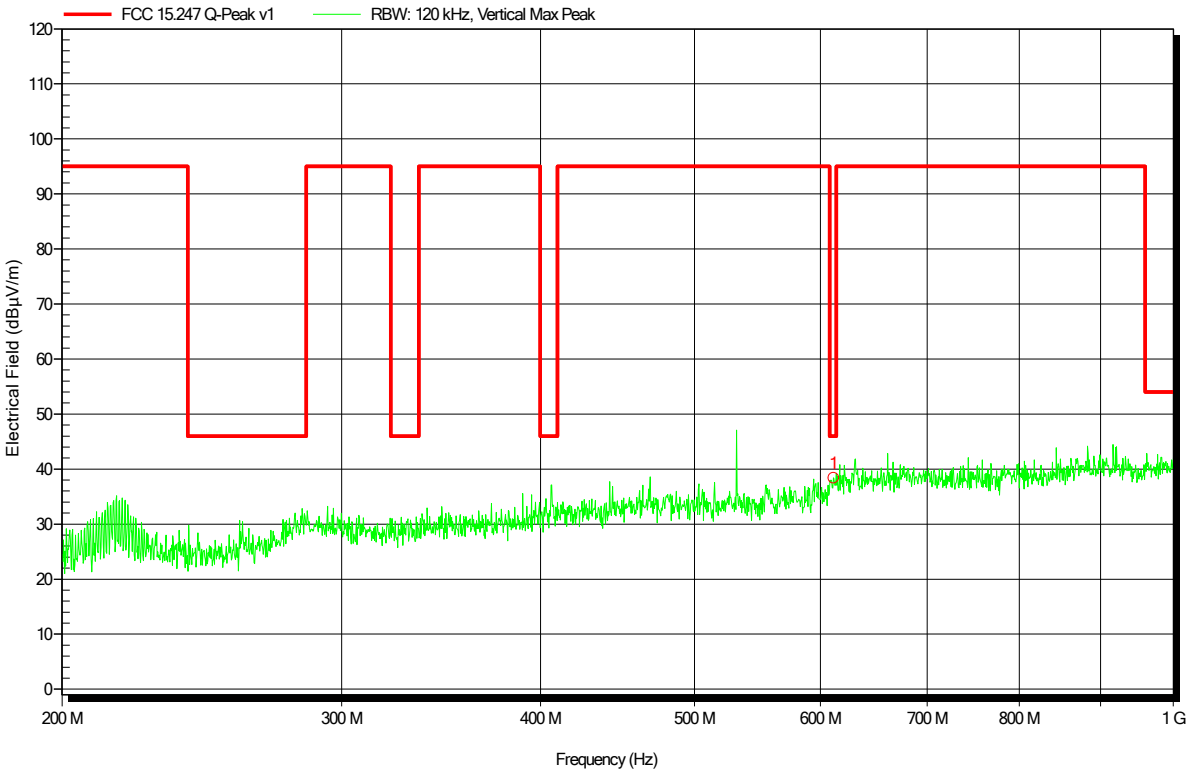

Frequency	Peak	Peak Limit	Peak Difference	Status
611.6482 MHz	38.3 dBµV/m	46 dBµV/m	-7.66 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m
Mode:	TX; BT, Power 9, CH 0
Test Date:	2019-07-22
Note:	

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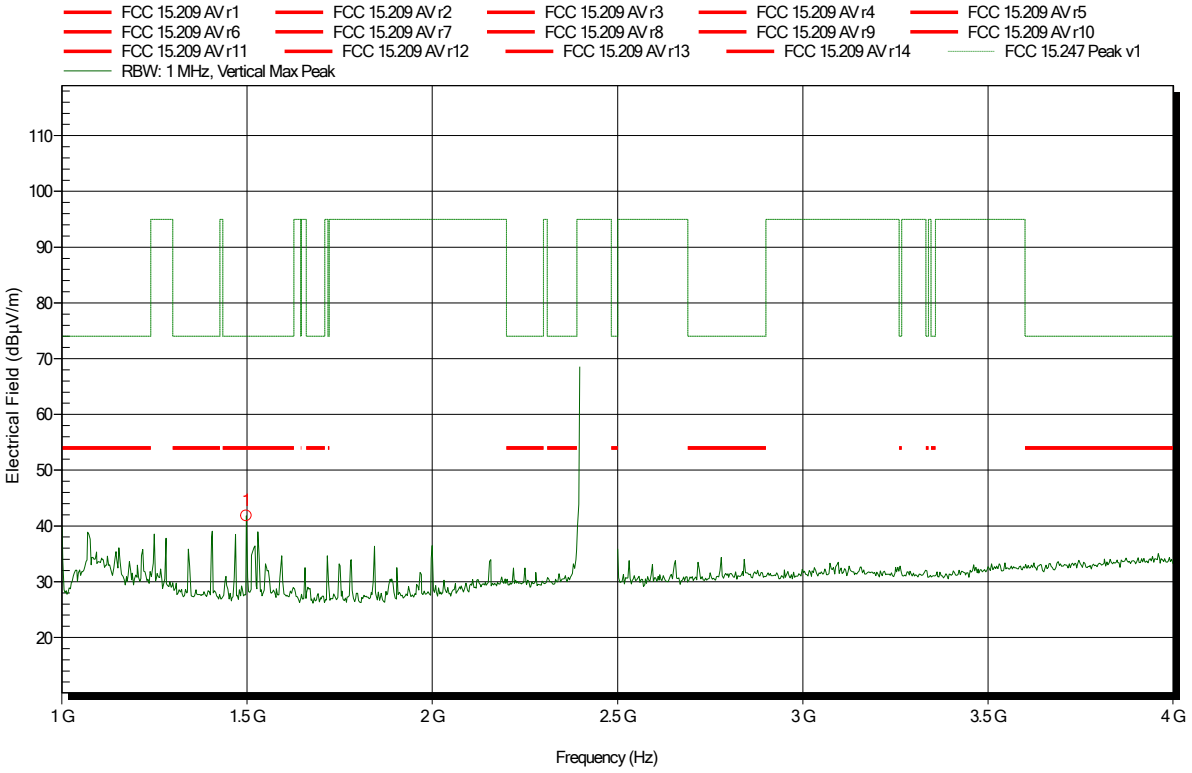

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.498 GHz	41.82 dBµV/m	74 dBµV/m	-32.18 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	1 m
Mode:	TX; BT, Power 9, CH 0
Test Date:	2019-07-22
Note:	

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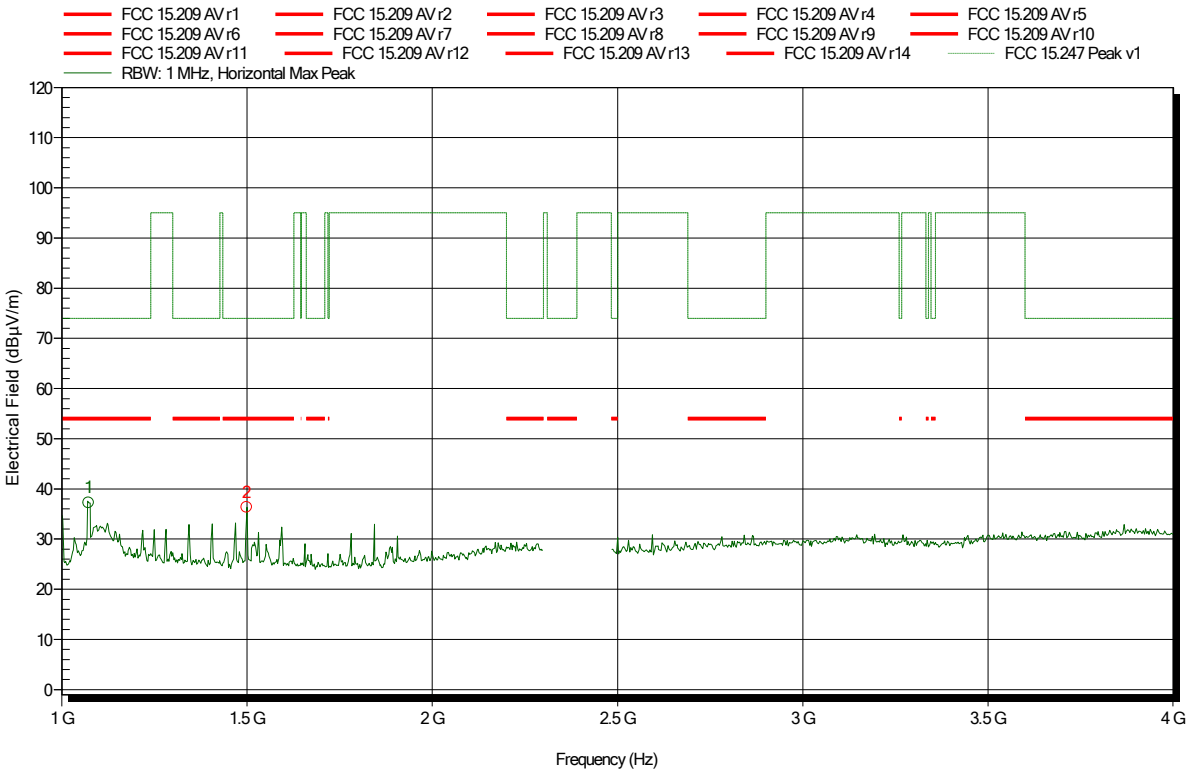

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.073 GHz	37.24 dBµV/m	74 dBµV/m	-36.76 dB	Pass
1.499 GHz	36.36 dBµV/m	74 dBµV/m	-37.64 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	1 m
Mode:	TX; BT, Power 9, CH 0
Test Date:	2019-07-22
Note:	lower bandedge

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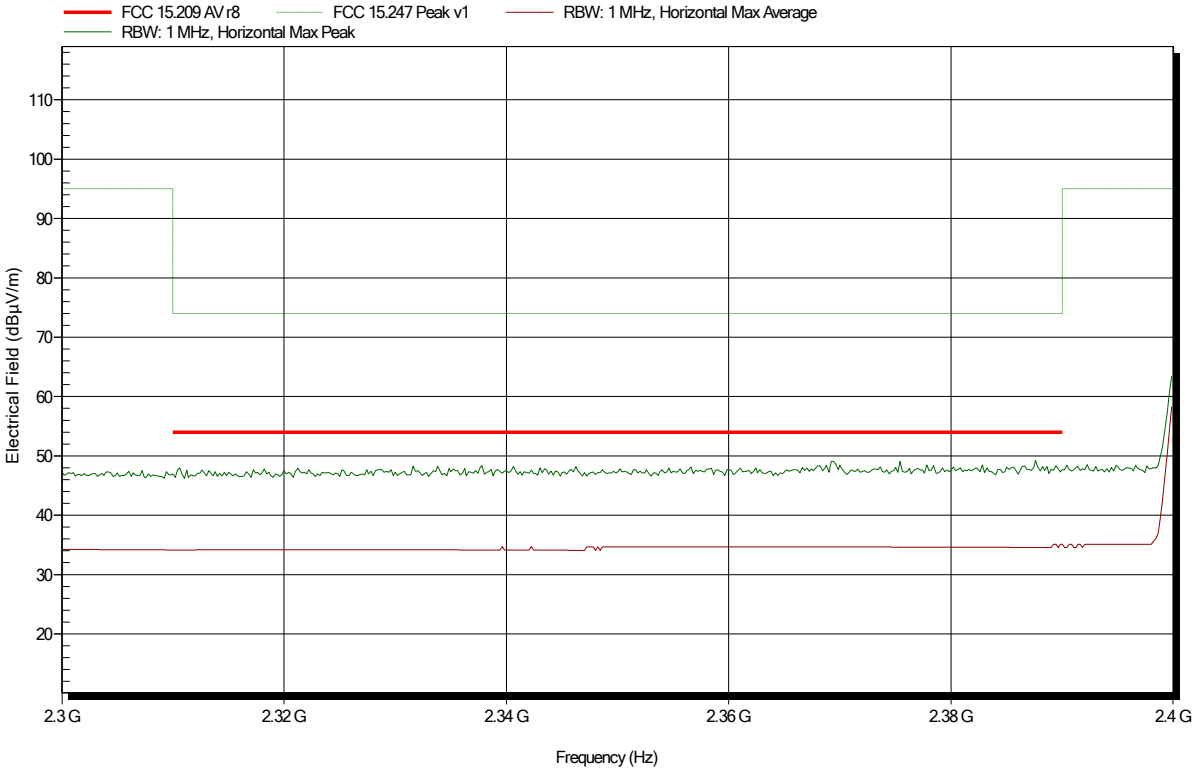

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m
Mode:	TX; BT, Power 9, CH 0
Test Date:	2019-07-22
Note:	lower bandedge

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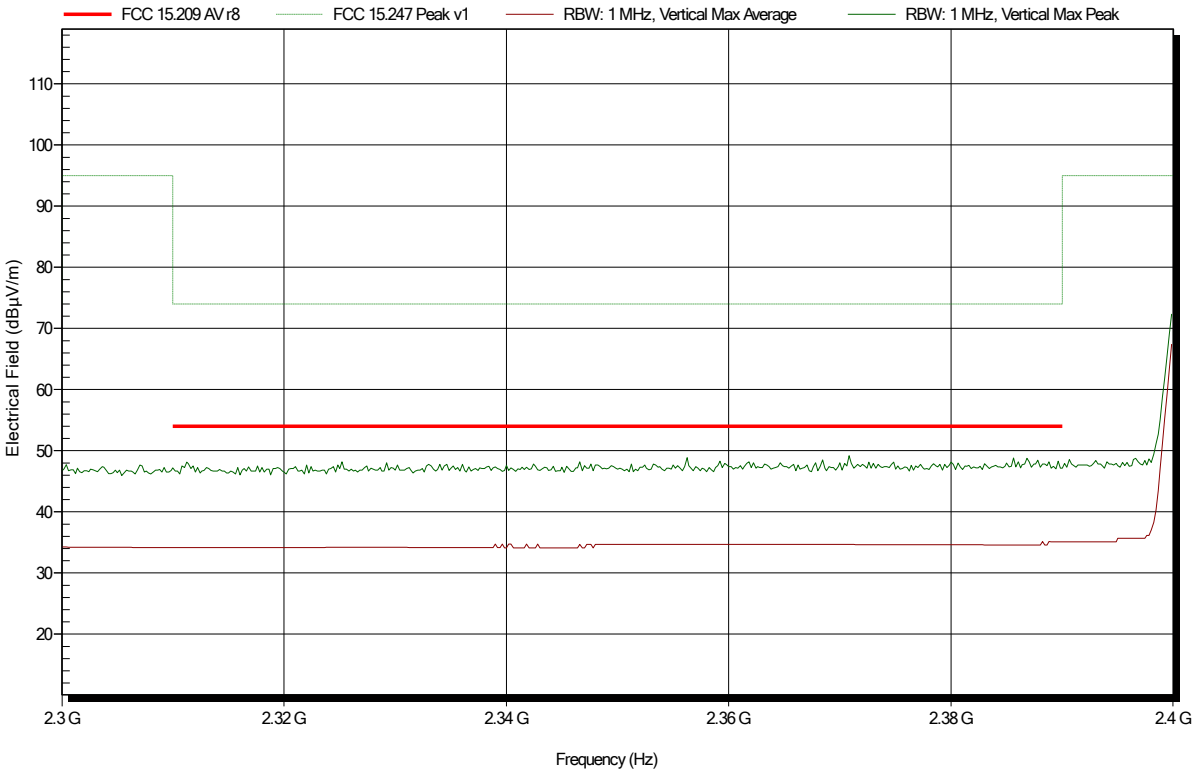

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; BT, Power 9, CH 0
Test Date:	2019-07-22
Note:	

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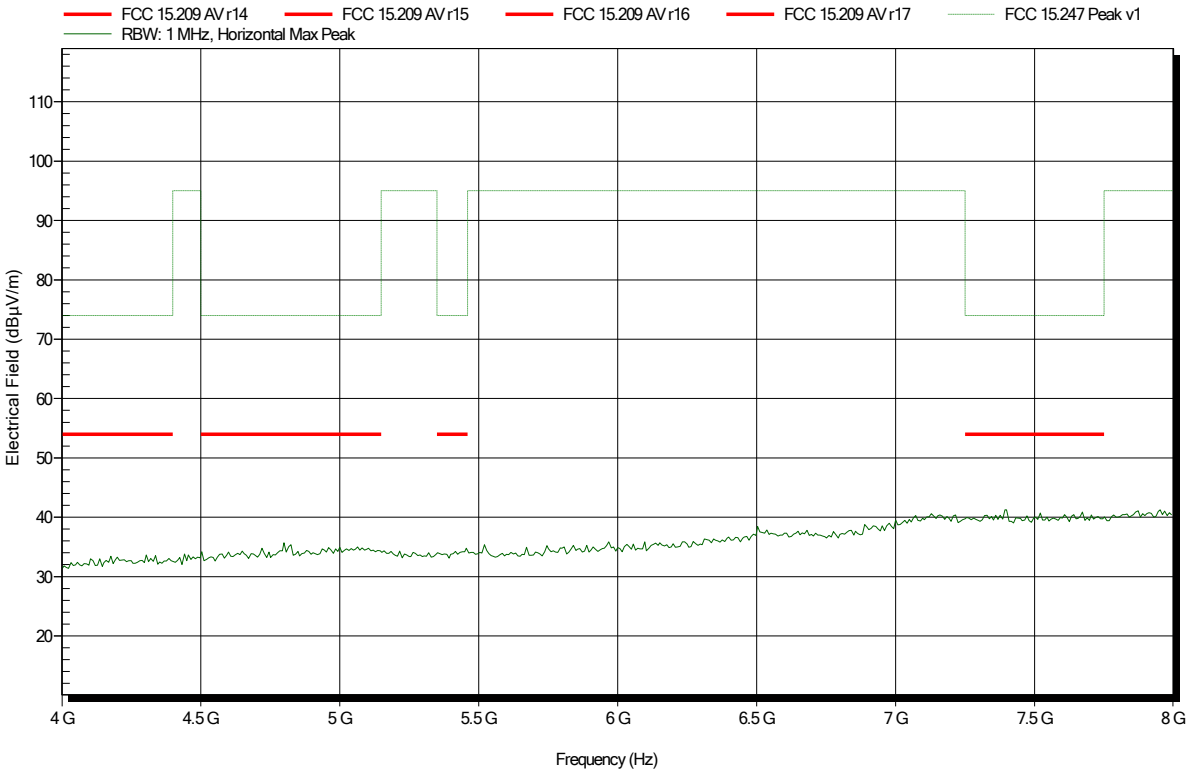

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; BT, Power 9, CH 0
Test Date:	2019-07-22
Note:	

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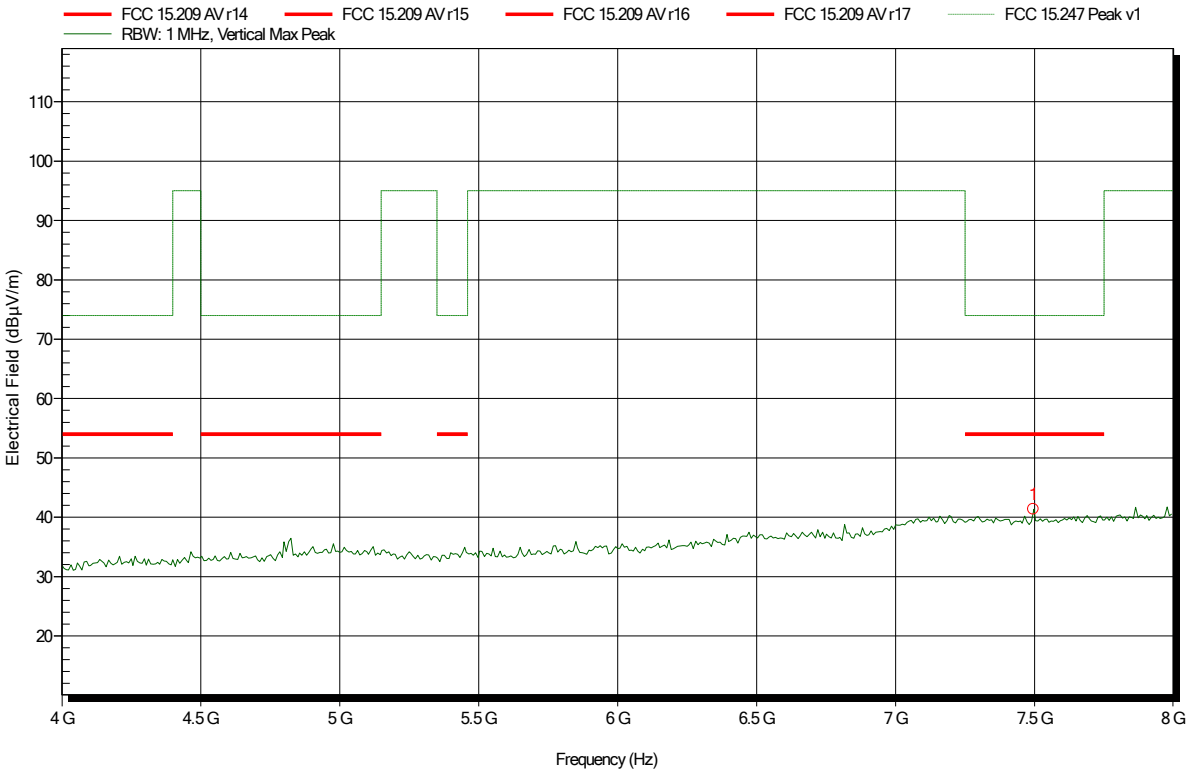

Frequency	Peak	Peak Limit	Peak Difference	Status
7.496 GHz	41.37 dBµV/m	74 dBµV/m	-32.63 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; BT, Power 9, CH 0
Test Date:	2019-07-22
Note:	

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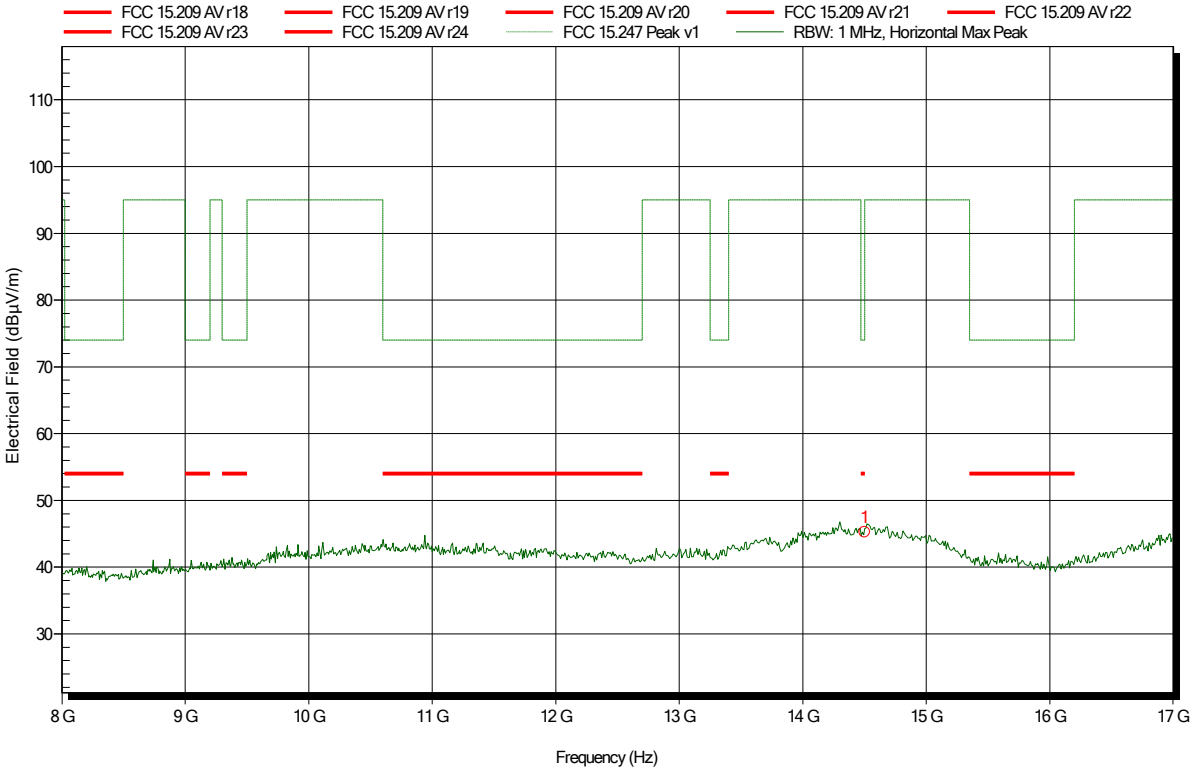

Frequency	Peak	Peak Limit	Peak Difference	Status
14.5 GHz	45.25 dBµV/m	74 dBµV/m	-28.75 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; BT, Power 9, CH 0
Test Date:	2019-07-22
Note:	

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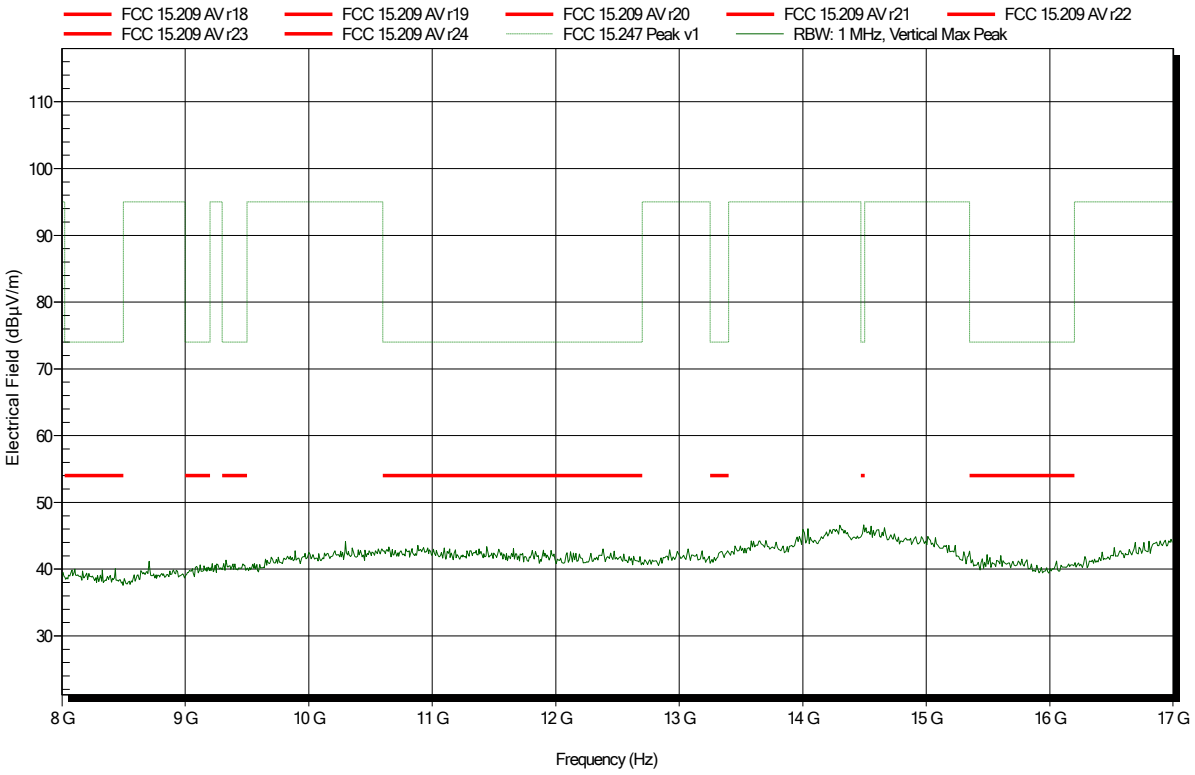

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	ATH18G40, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; BT, Power 9, CH 0
Test Date:	2019-07-22
Note:	

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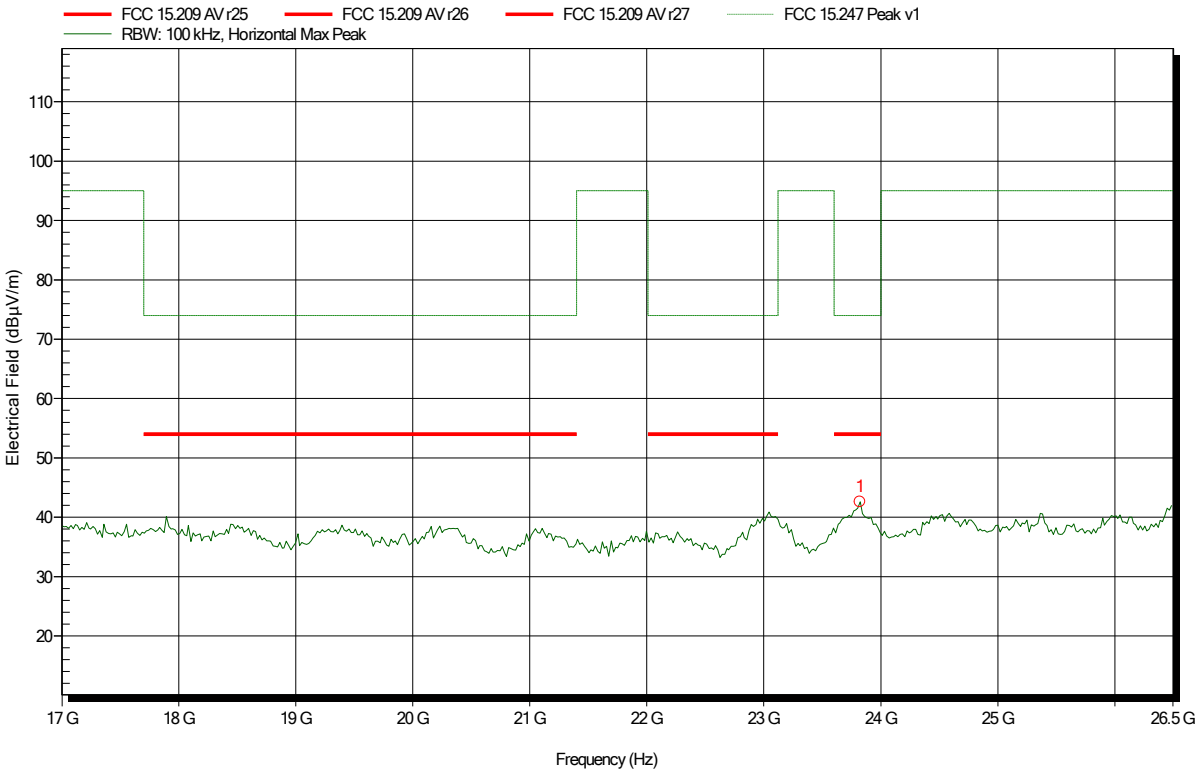

Frequency	Peak	Peak Limit	Peak Difference	Status
23.821 GHz	42.6 dBµV/m	74 dBµV/m	-31.4 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	ATH18G40, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; BT, Power 9, CH 0
Test Date:	2019-07-22
Note:	

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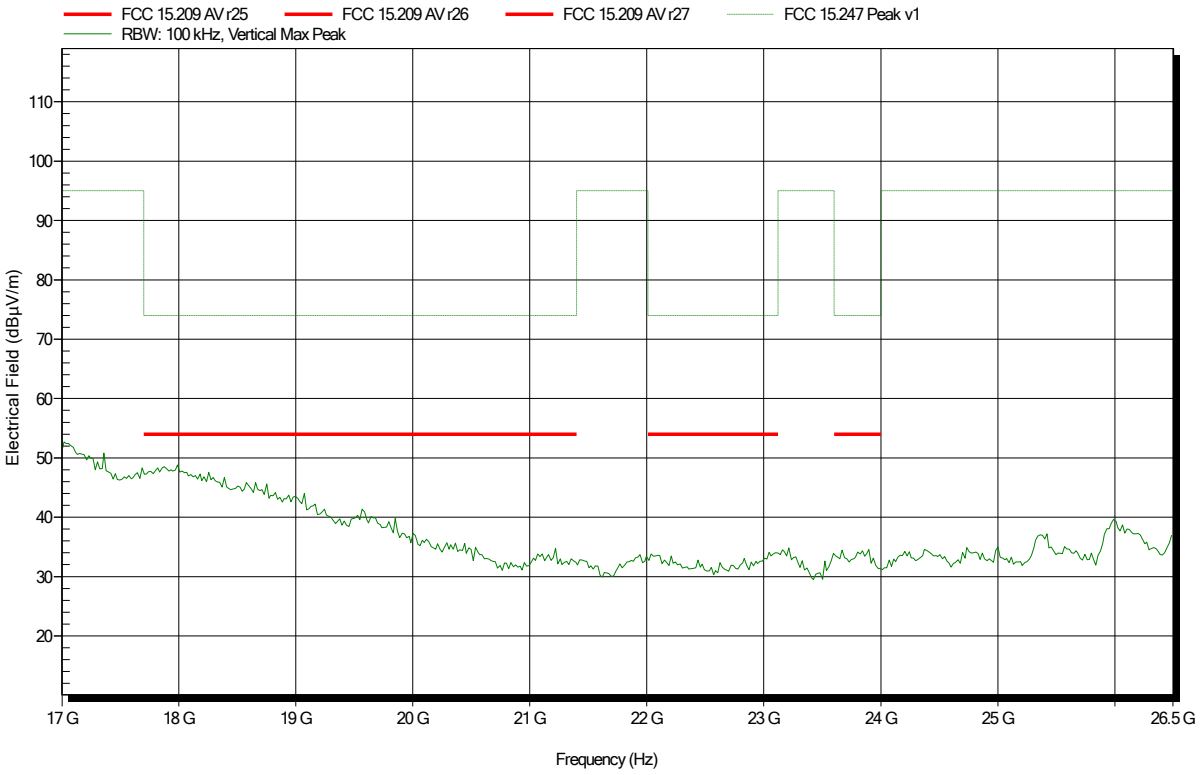

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	1 m
Mode:	TX; BT, Power 9, CH 39
Test Date:	2019-07-22
Note:	

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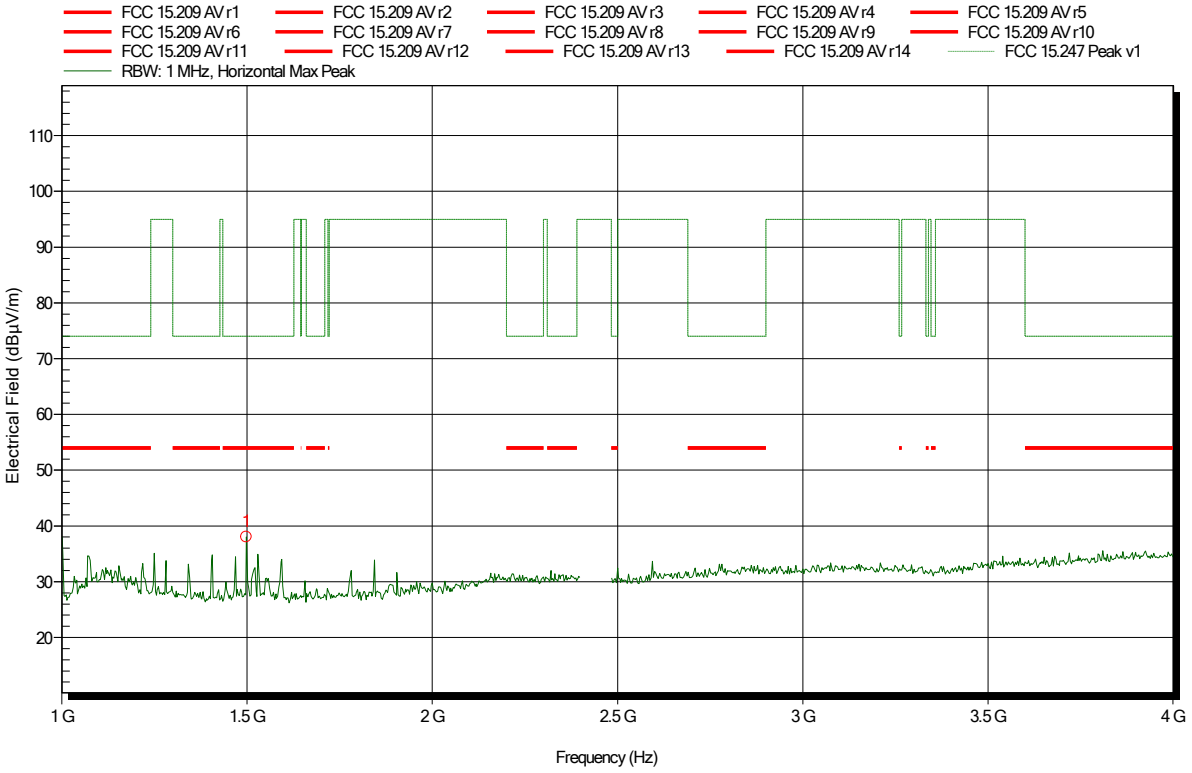

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.4984 GHz	38.05 dBµV/m	74 dBµV/m	-35.95 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m
Mode:	TX; BT, Power 9, CH 39
Test Date:	2019-07-22
Note:	

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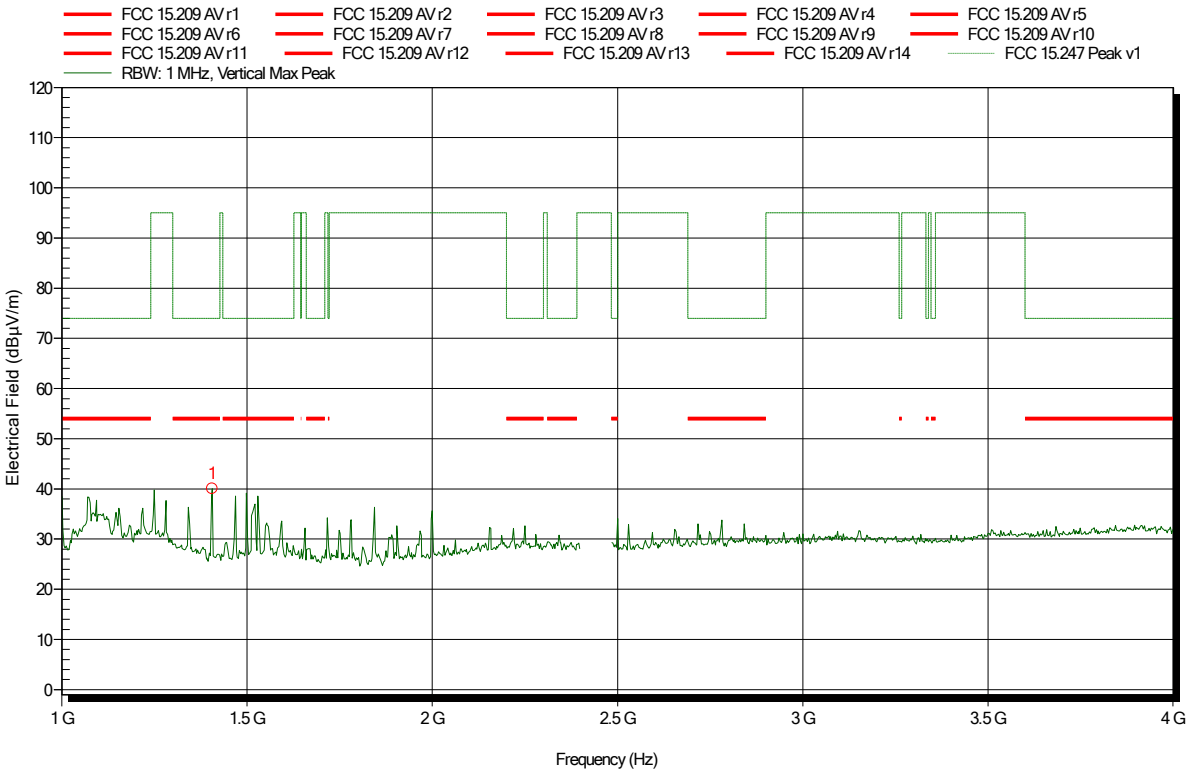

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.406 GHz	40.03 dBµV/m	74 dBµV/m	-33.97 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; BT, Power 9, CH 39
Test Date:	2019-07-22
Note:	

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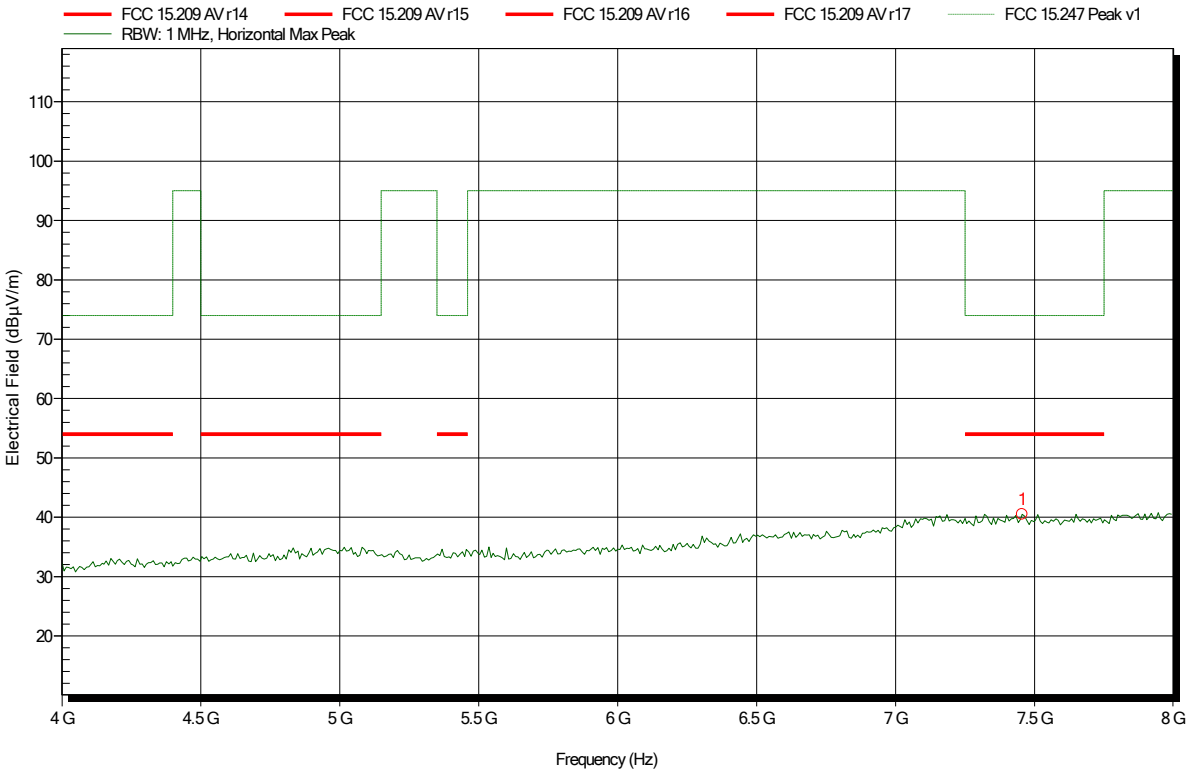

Frequency	Peak	Peak Limit	Peak Difference	Status
7.456 GHz	40.49 dBµV/m	74 dBµV/m	-33.51 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; BT, Power 9, CH 39
Test Date:	2019-07-22
Note:	

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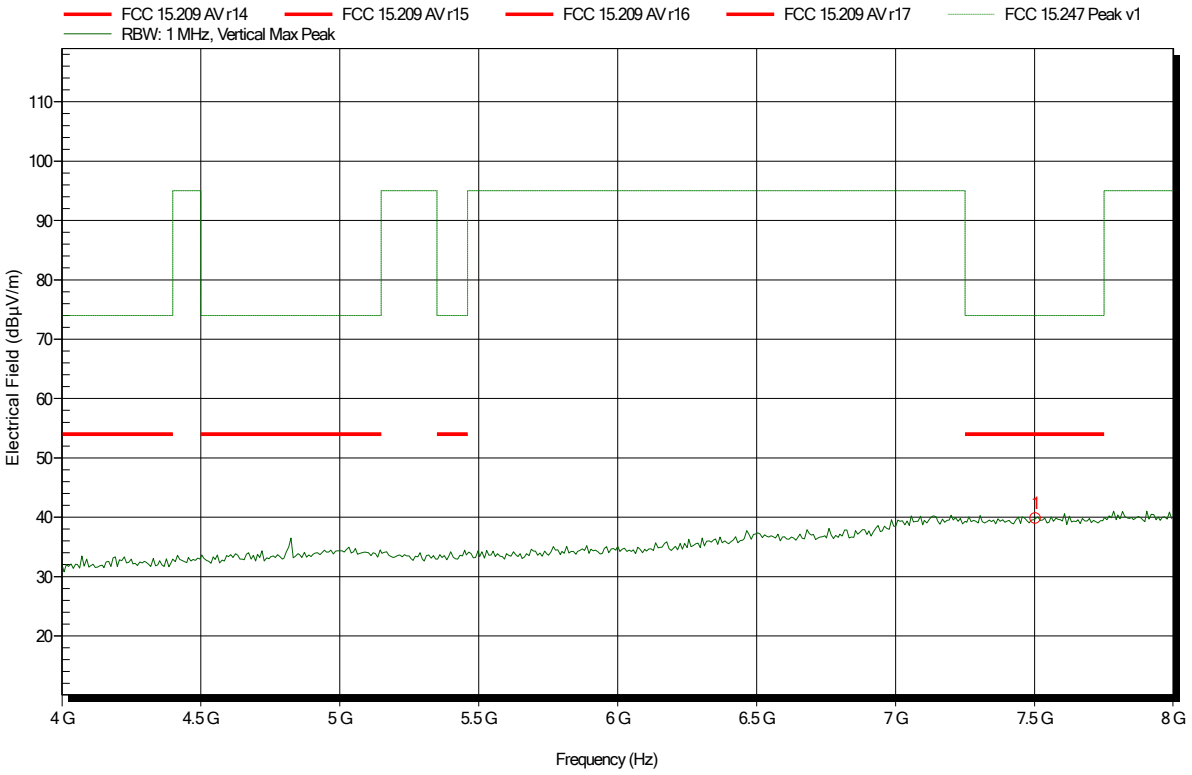

Frequency	Peak	Peak Limit	Peak Difference	Status
7.504 GHz	39.8 dBµV/m	74 dBµV/m	-34.2 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; BT, Power 9, CH 39
Test Date:	2019-07-22
Note:	

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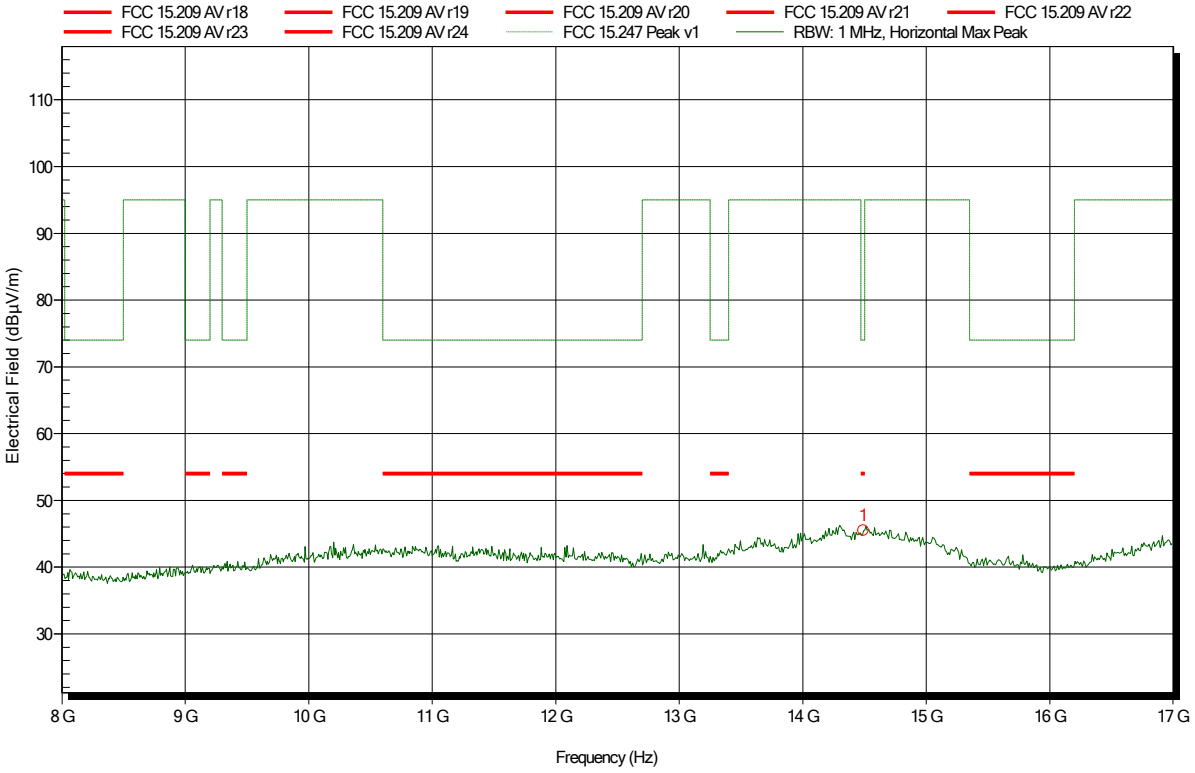

Frequency	Peak	Peak Limit	Peak Difference	Status
14.49 GHz	45.46 dBµV/m	74 dBµV/m	-28.54 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; BT, Power 9, CH 39
Test Date:	2019-07-22
Note:	

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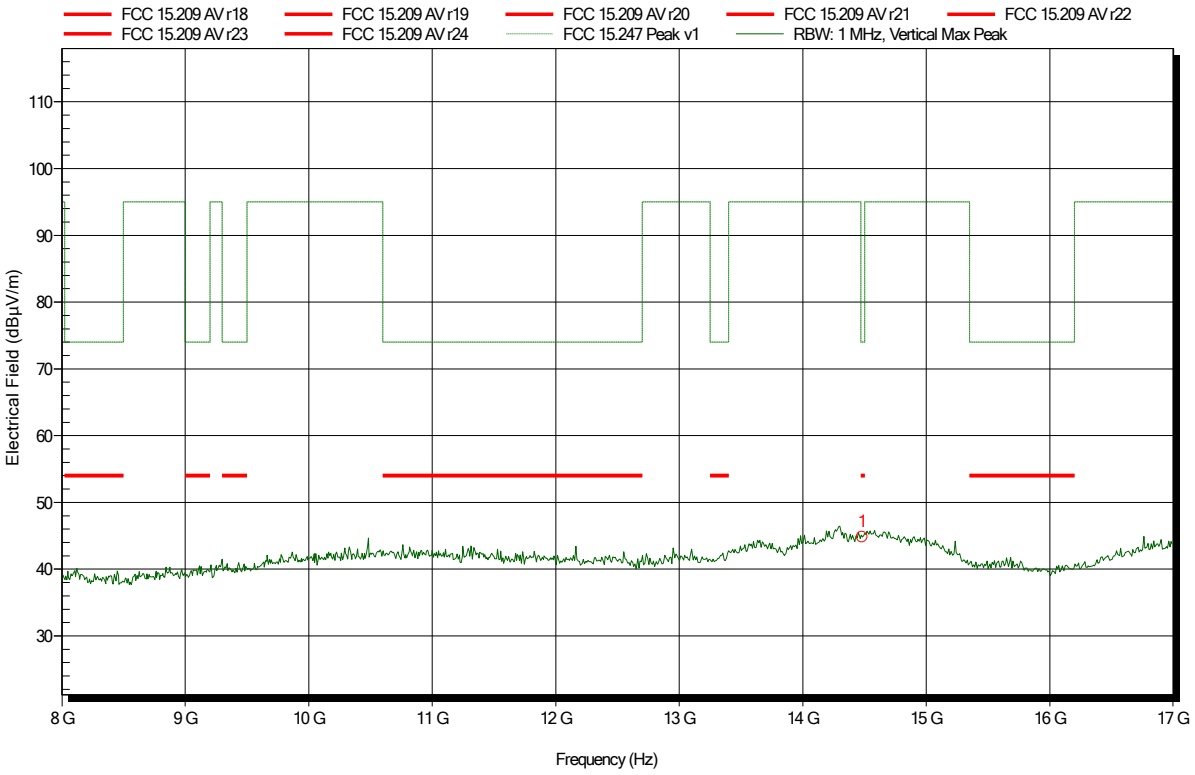

Frequency	Peak	Peak Limit	Peak Difference	Status
14.48 GHz	44.82 dBµV/m	74 dBµV/m	-29.18 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	ATH18G40, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; BT, Power 9, CH 39
Test Date:	2019-07-22
Note:	

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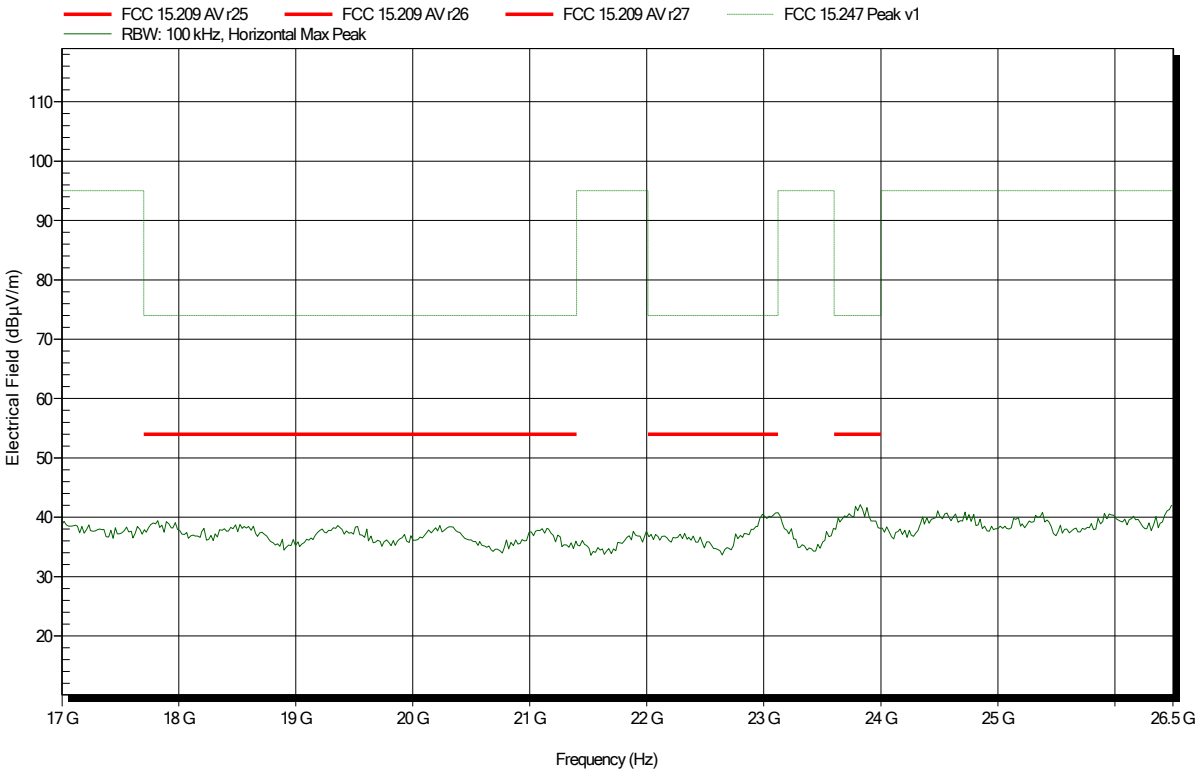

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	ATH18G40, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; BT, Power 9, CH 39
Test Date:	2019-07-22
Note:	

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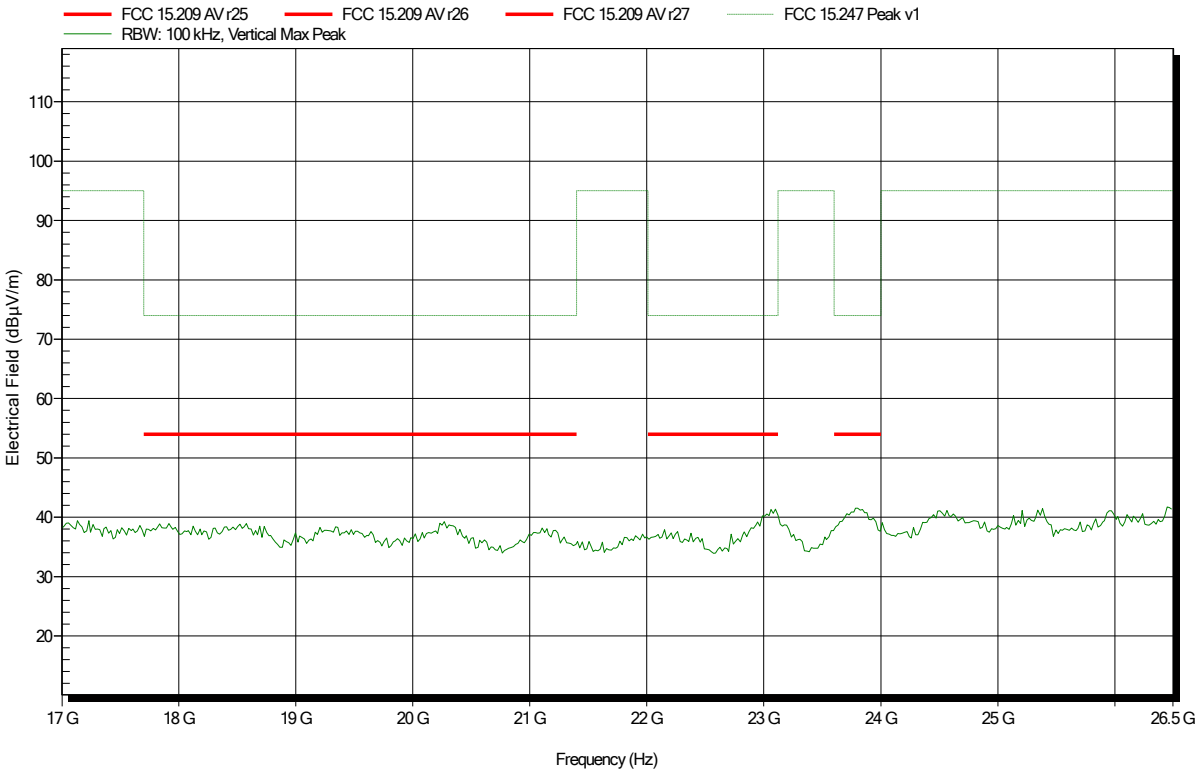

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	1 m
Mode:	TX; BT, Power 9, CH 78
Test Date:	2019-07-22
Note:	

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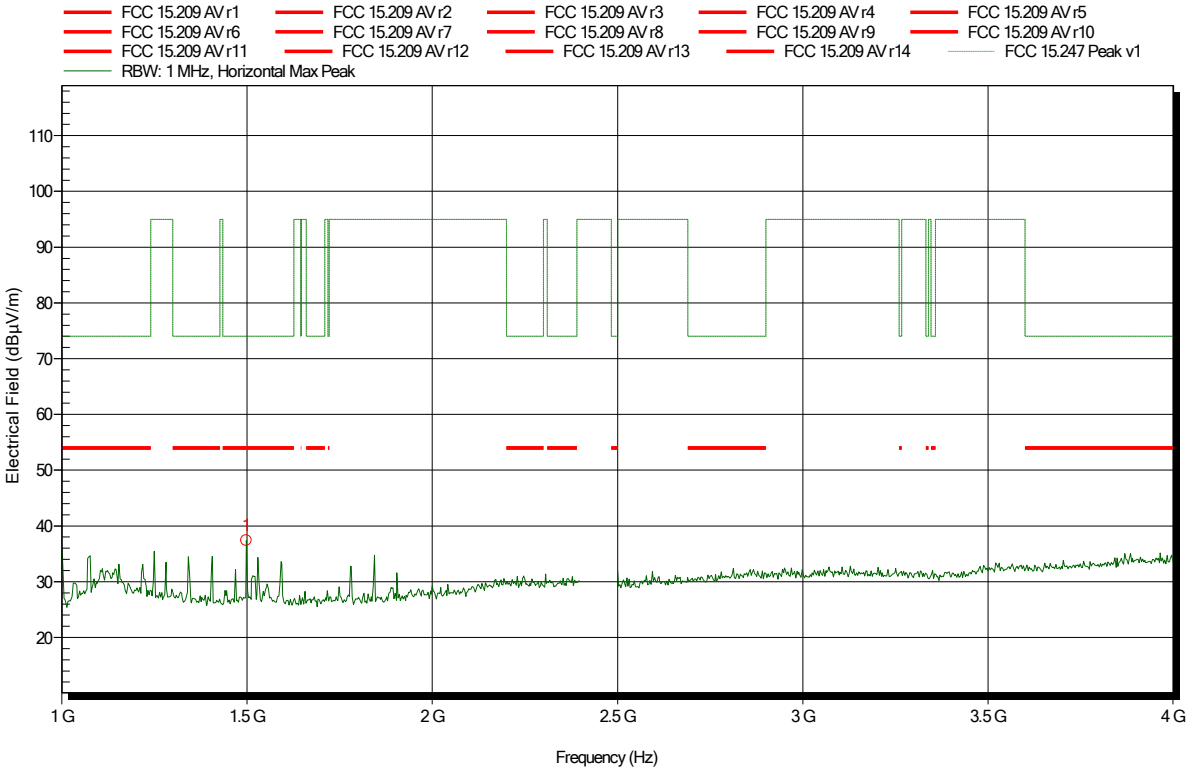

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.498 GHz	37.39 dBµV/m	74 dBµV/m	-36.61 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m
Mode:	TX; BT, Power 9, CH 78
Test Date:	2019-07-22
Note:	

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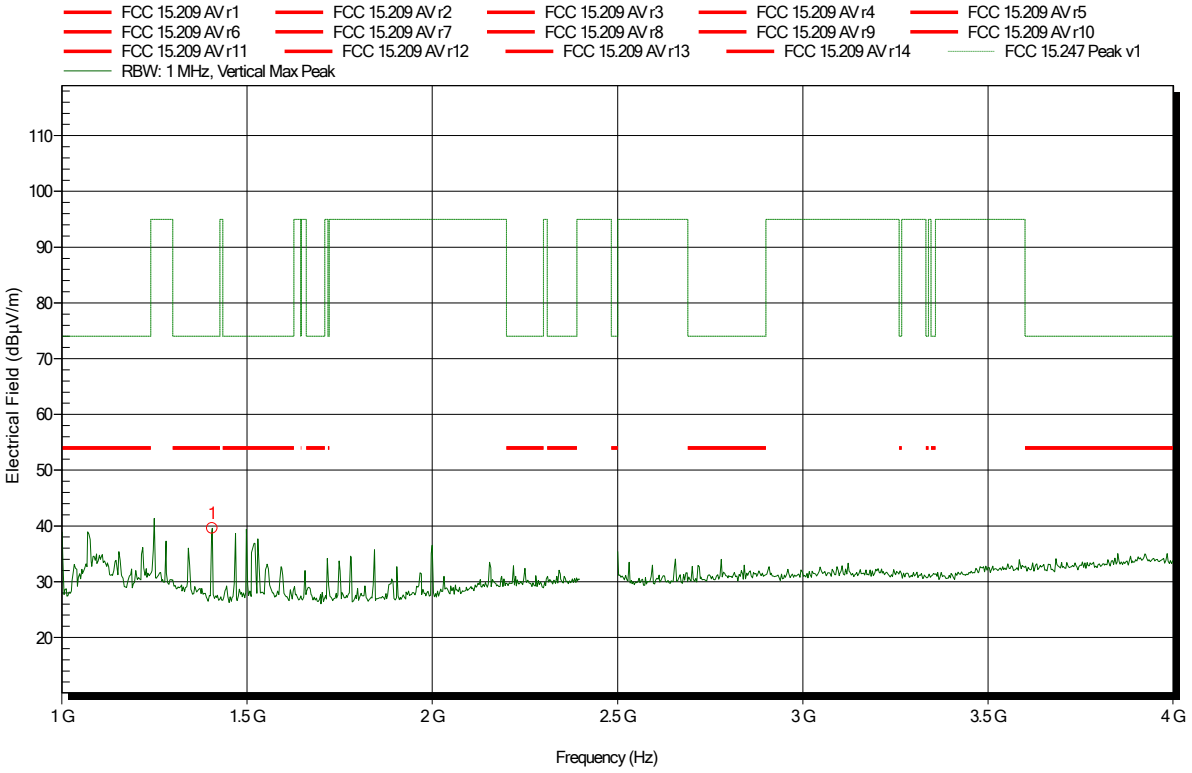

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.406 GHz	39.56 dBµV/m	74 dBµV/m	-34.44 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	TX; BT, Power 9, CH 78
Test Date:	2019-07-22
Note:	upper bandedge

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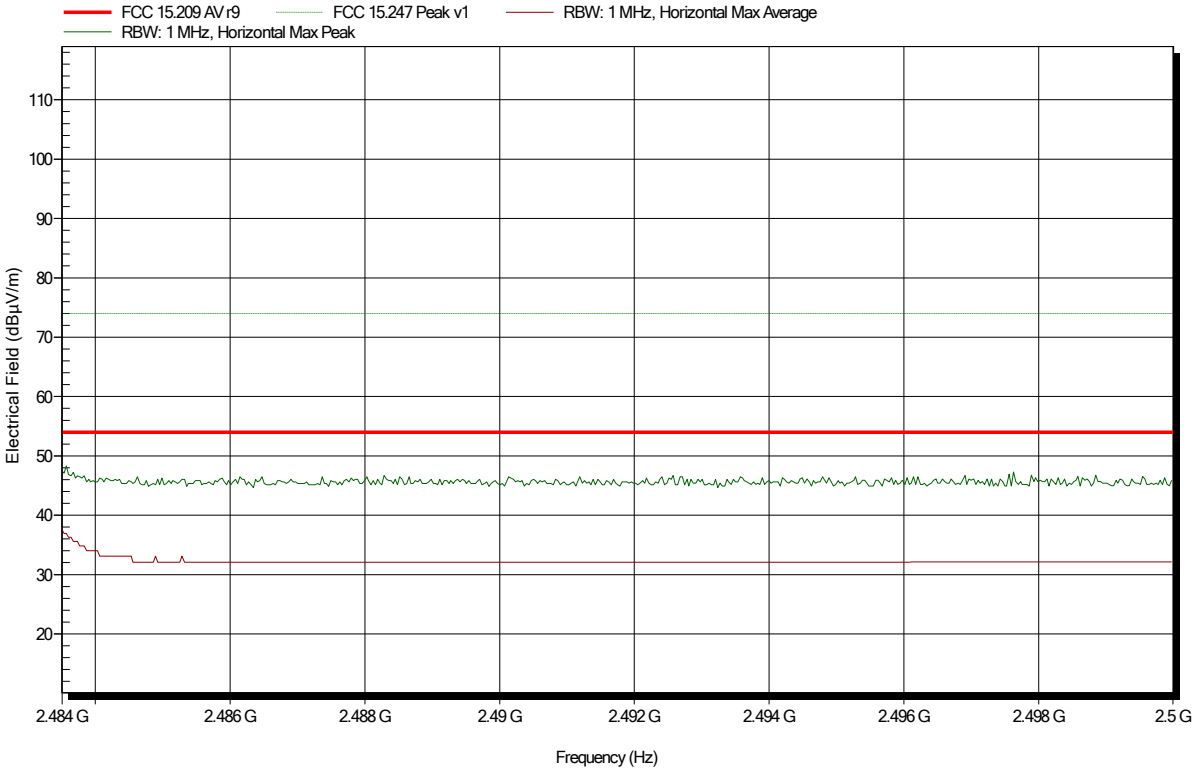

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	TX; BT, Power 9, CH 78
Test Date:	2019-07-22
Note:	Upper bandedge

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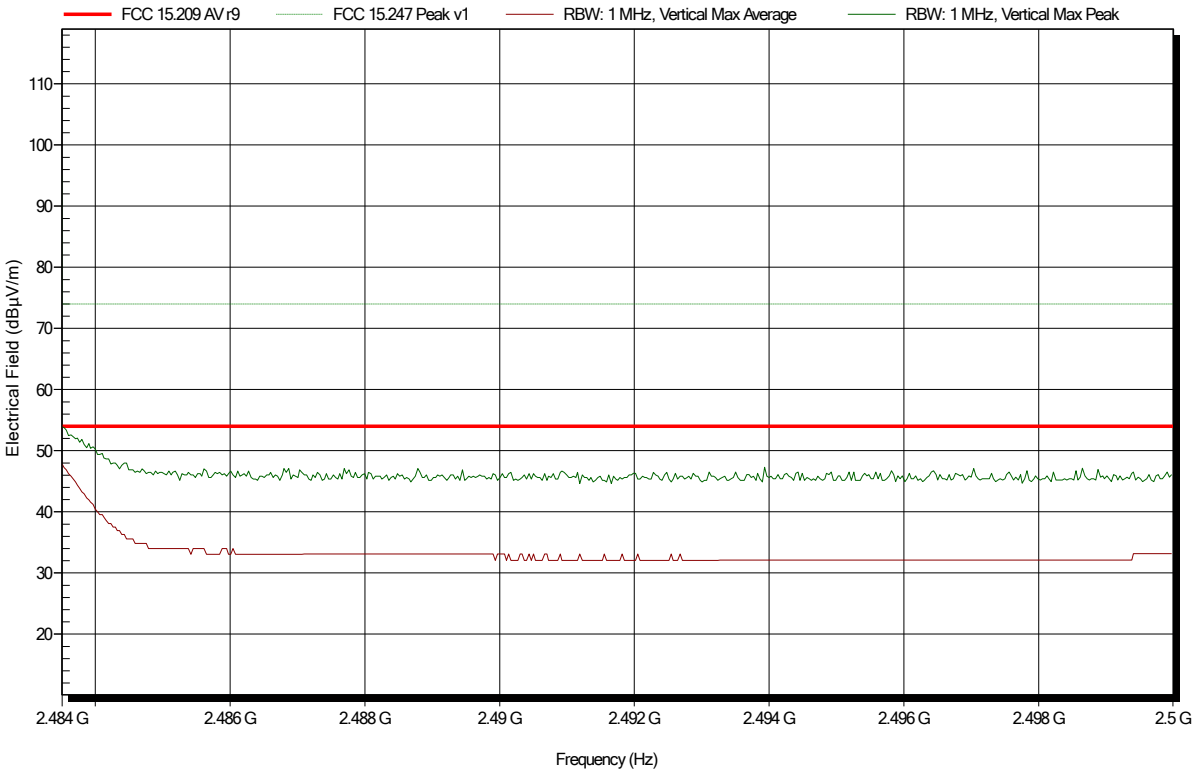

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; BT, Power 9, CH 78
Test Date:	2019-07-22
Note:	

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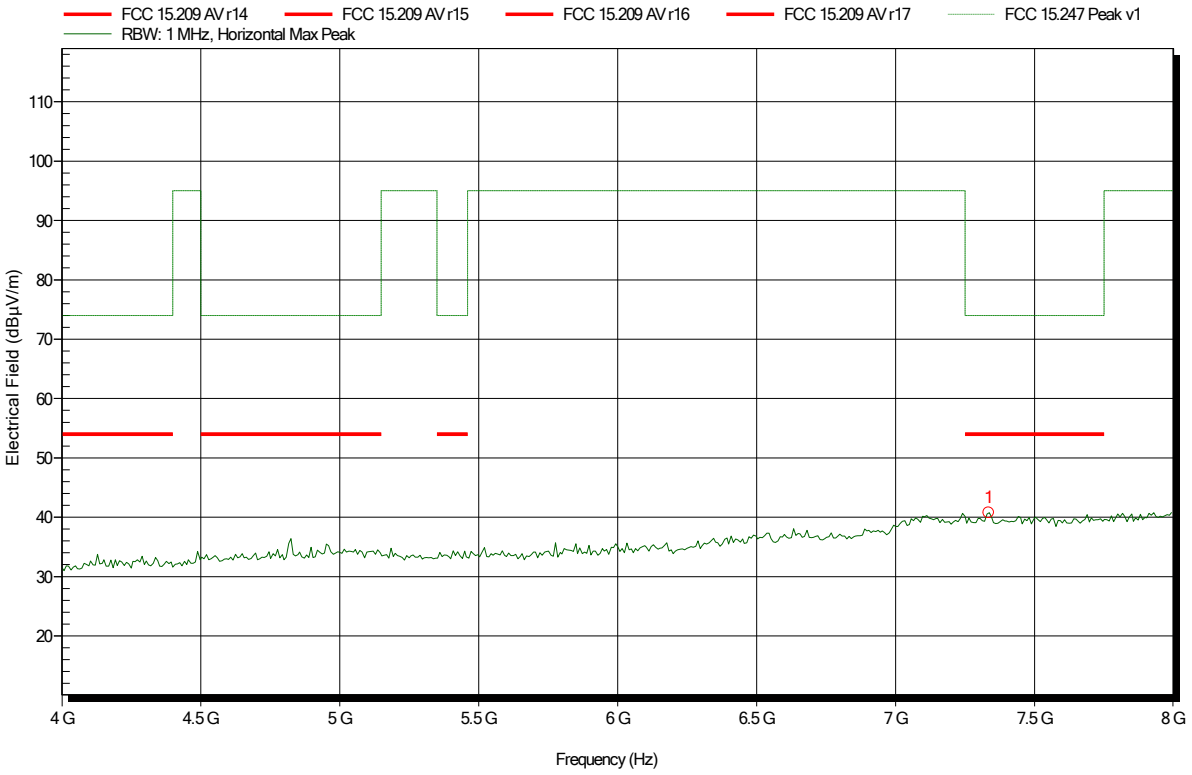

Frequency	Peak	Peak Limit	Peak Difference	Status
7.336 GHz	40.76 dBµV/m	74 dBµV/m	-33.24 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; BT, Power 9, CH 78
Test Date:	2019-07-22
Note:	

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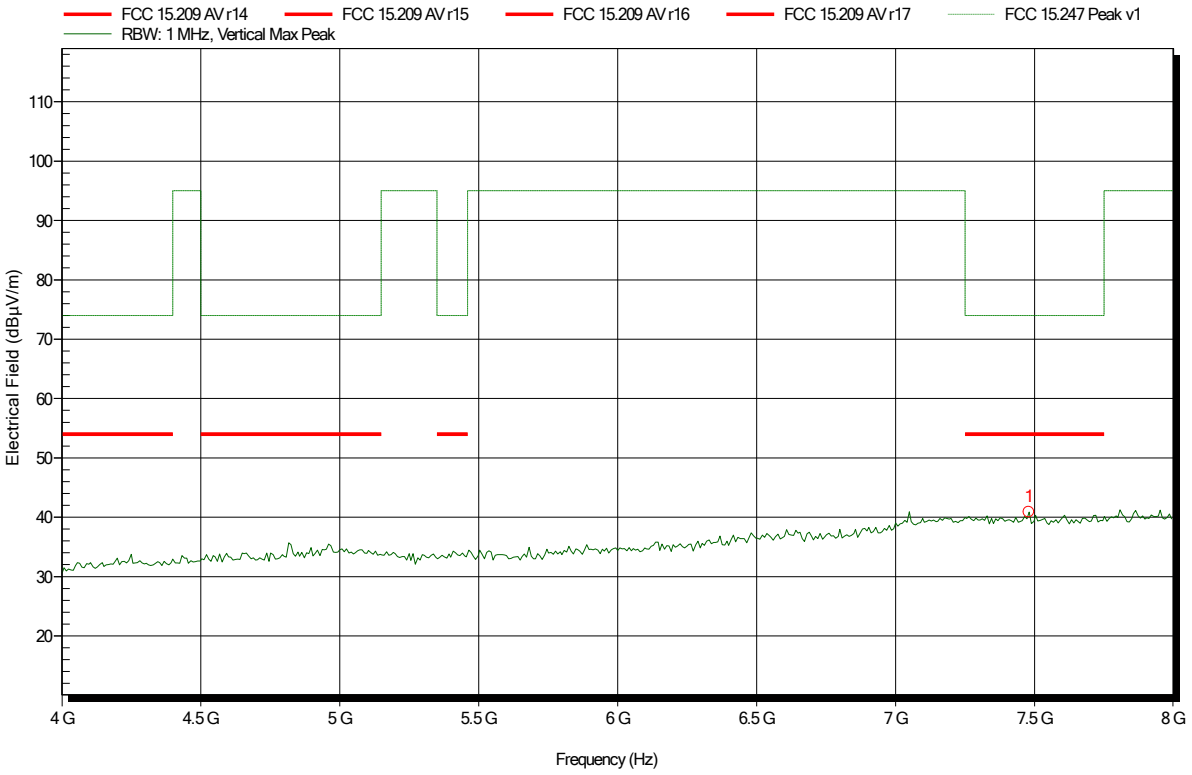

Frequency	Peak	Peak Limit	Peak Difference	Status
7.48 GHz	40.89 dBµV/m	74 dBµV/m	-33.11 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; BT, Power 9, CH 78
Test Date:	2019-07-22
Note:	

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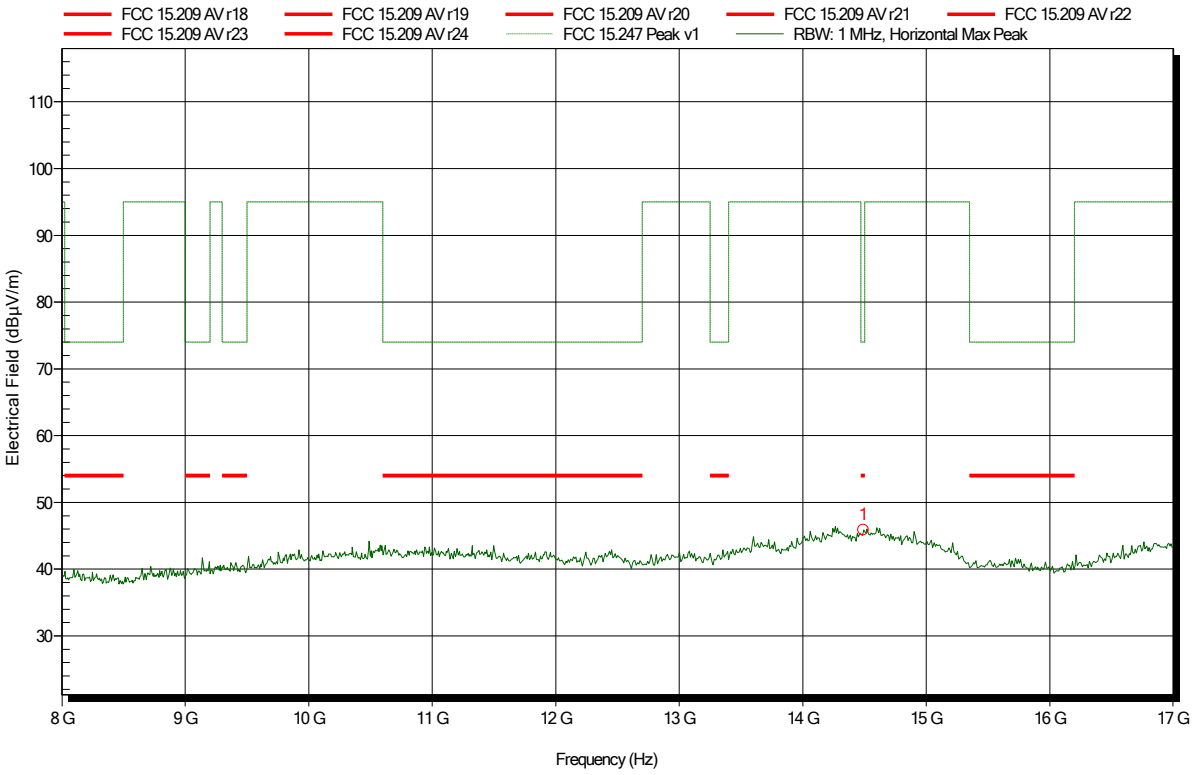

Frequency	Peak	Peak Limit	Peak Difference	Status
14.49 GHz	45.86 dBµV/m	74 dBµV/m	-28.14 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; BT, Power 9, CH 78
Test Date:	2019-07-22
Note:	

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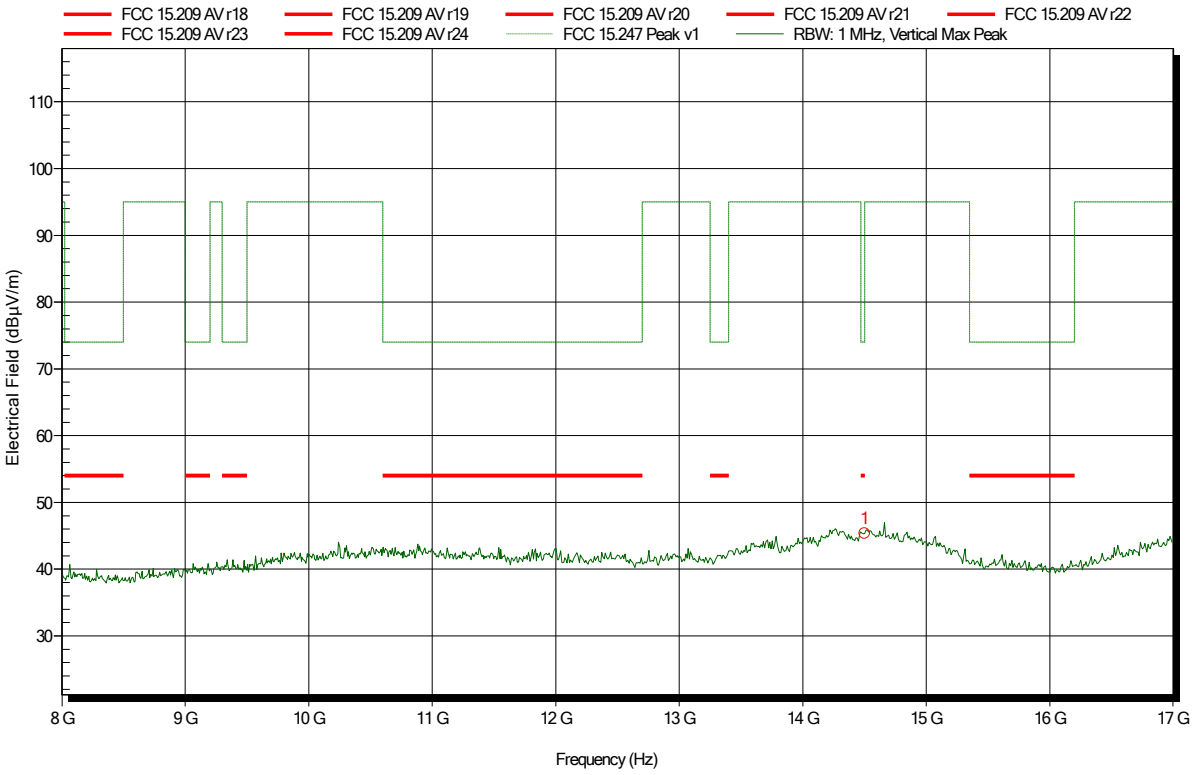

Frequency	Peak	Peak Limit	Peak Difference	Status
14.5 GHz	45.36 dBµV/m	74 dBµV/m	-28.64 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	ATH18G40, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; BT, Power 9, CH 78
Test Date:	2019-07-22
Note:	

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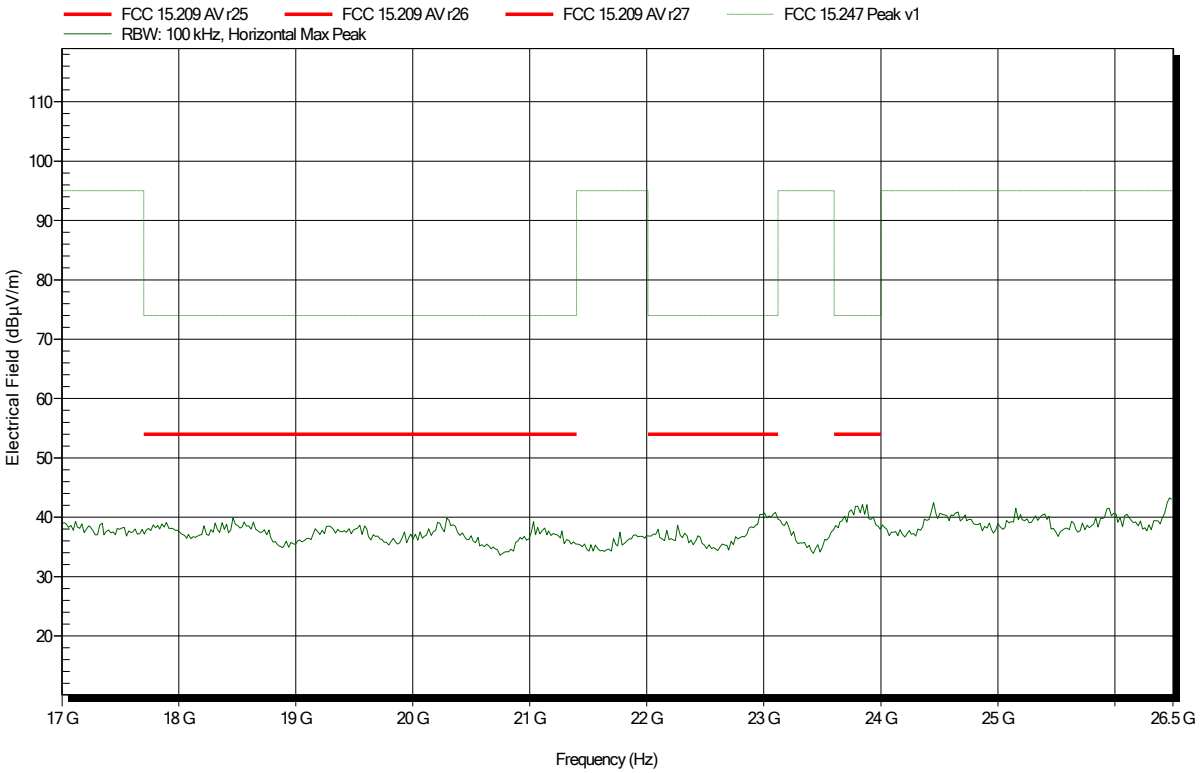

Spurious emissions according to FCC 47 e-CFR §15.247

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	ATH18G40, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; BT, Power 9, CH 78
Test Date:	2019-07-22
Note:	

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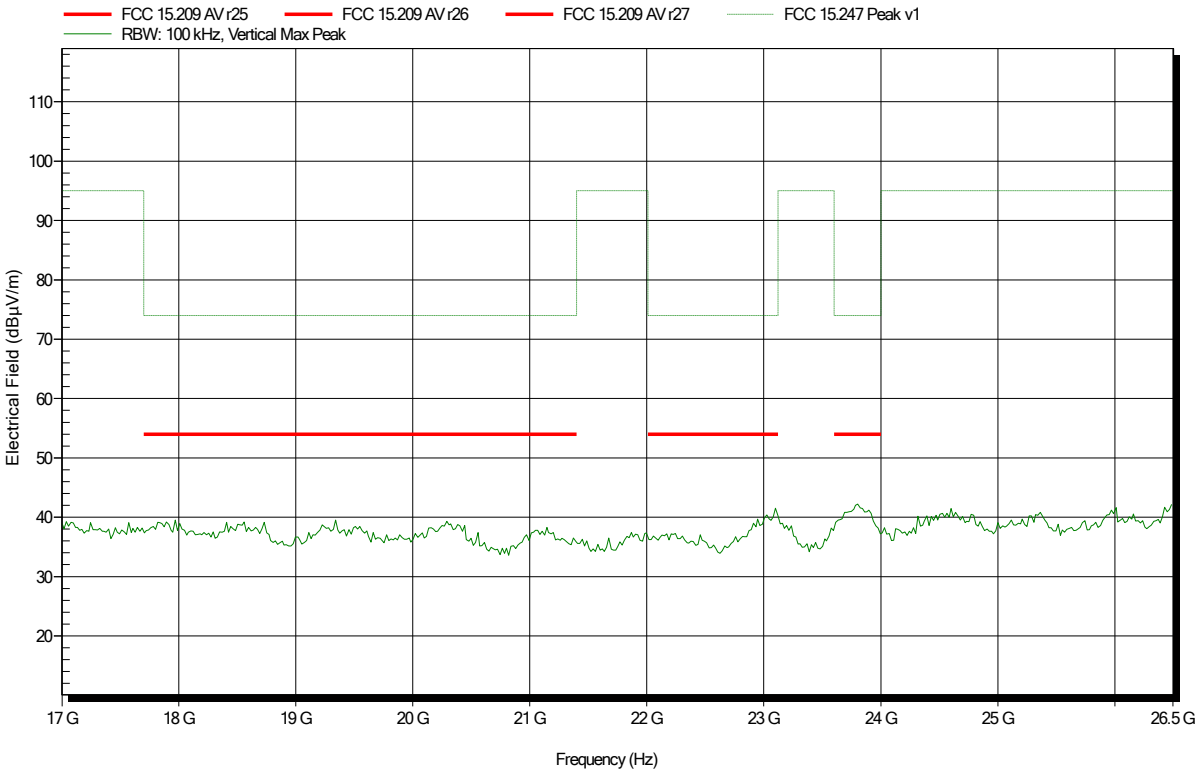
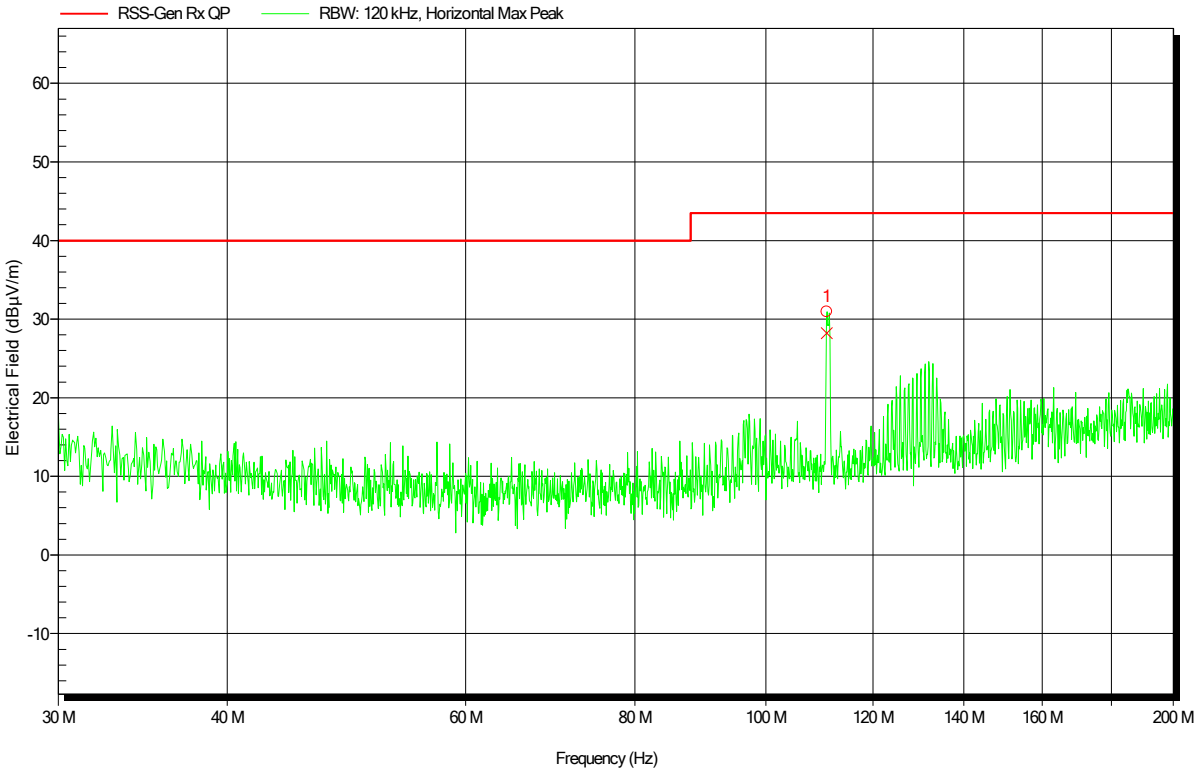


ANNEX B Receiver spurious emissions

Spurious emissions according to ISED RSS-Gen Issue 5 (April 2018)

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 23°C, Vnom: 7.2 VDC battery
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	RX; BT Rx scan mode
Test Date:	2019-07-25
Note:	

Index 1



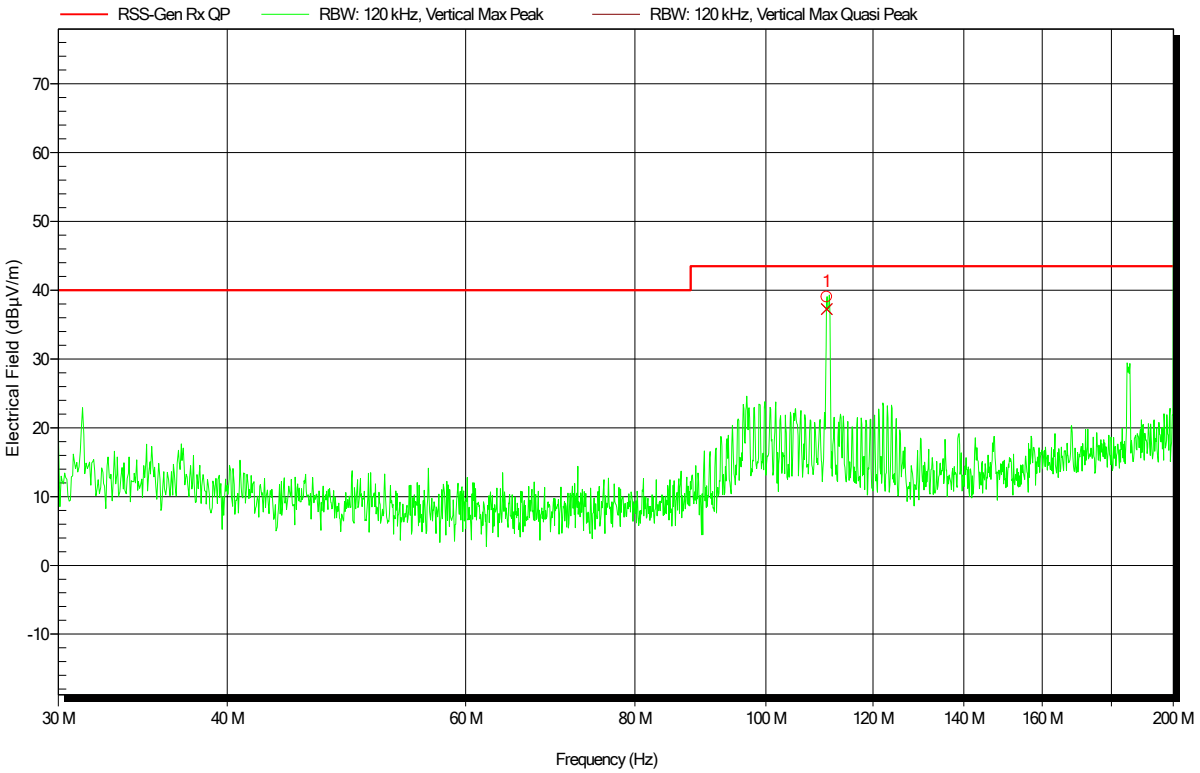
Frequency	Peak	Peak Limit	Peak Difference	Status	Angle	Height
110.8805 MHz	30.9 dBµV/m	43.5 dBµV/m	-12.58 dB	Pass	0 Degree	1 m

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
110.8805 MHz	28.2 dBµV/m	43.5 dBµV/m	-15.29 dB	Pass	0 Degree	1 m

Spurious emissions according to ISED RSS-Gen Issue 5 (April 2018)

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 23°C, Vnom: 7.2 VDC battery
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	RX; BT Rx scan mode
Test Date:	2019-07-25
Note:	

Index 2



Frequency	Peak	Peak Limit	Peak Difference	Status	Angle	Height
110.8859 MHz	39 dBµV/m	43.5 dBµV/m	-4.48 dB	Pass	0 Degree	1 m

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
110.8859 MHz	37.3 dBµV/m	43.5 dBµV/m	-6.25 dB	Pass	0 Degree	1 m

Spurious emissions according to ISED RSS-Gen Issue 5 (April 2018)

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 23°C, Vnom: 7.2 VDC battery
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	RX; BT Rx scan mode
Test Date:	2019-07-25
Note:	

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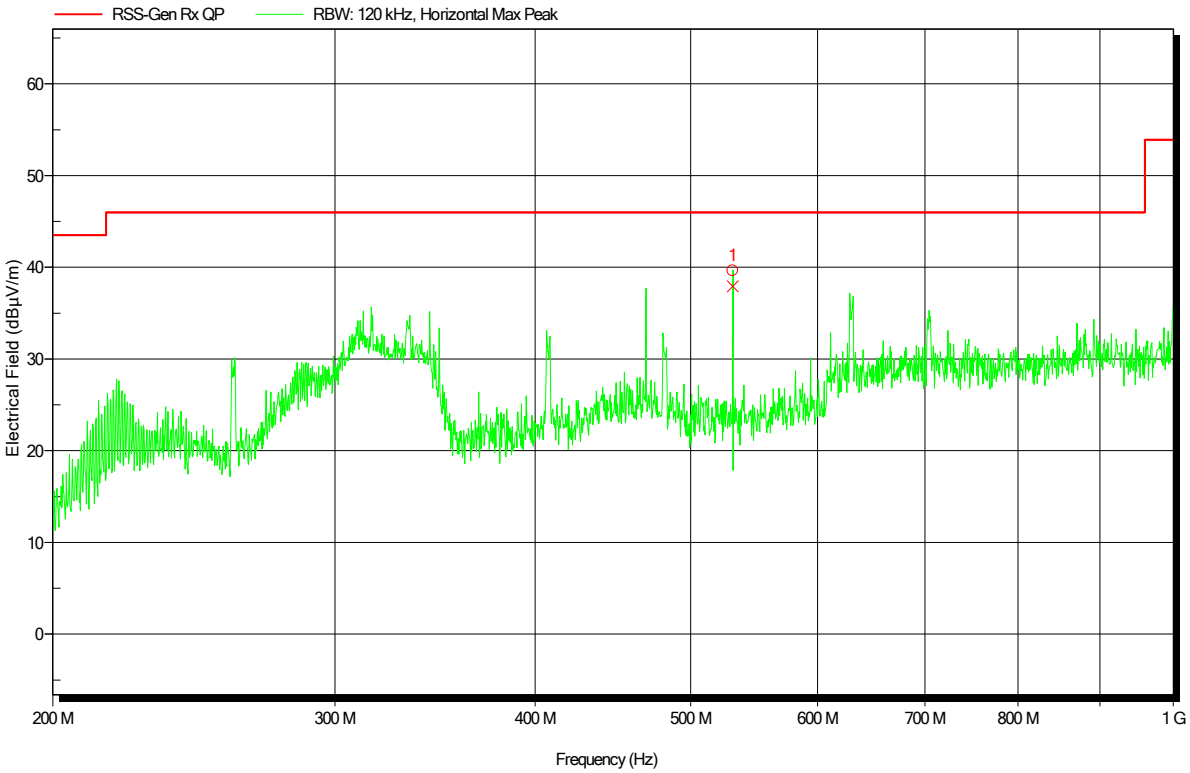

Frequency	Peak	Peak Limit	Peak Difference	Status	Angle	Height
531.2456 MHz	39.6 dBµV/m	46 dBµV/m	-6.37 dB	Pass	0 Degree	1 m

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
531.2456 MHz	37.9 dBµV/m	46 dBµV/m	-8.07 dB	Pass	0 Degree	1 m

Spurious emissions according to ISED RSS-Gen Issue 5 (April 2018)

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 23°C, Vnom: 7.2 VDC battery
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	RX; BT Rx scan mode
Test Date:	2019-07-25
Note:	

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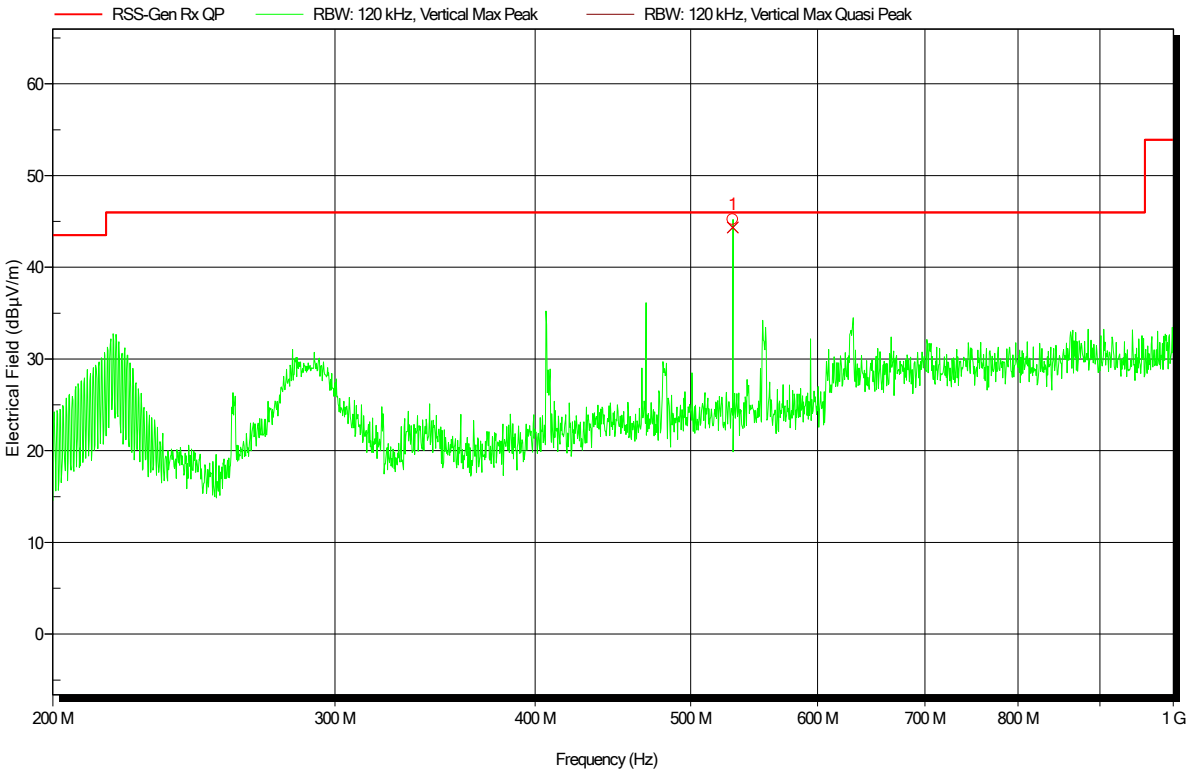

Frequency	Peak	Peak Limit	Peak Difference	Status	Angle	Height
531.2518 MHz	45.2 dBµV/m	46 dBµV/m	-0.79 dB	Pass	0 Degree	1 m

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
531.2518 MHz	44.4 dBµV/m	46 dBµV/m	-1.64 dB	Pass	0 Degree	1 m

Spurious emissions according to ISED RSS-Gen

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	RX; BT Rx scan mode
Test Date:	2019-07-22
Note:	

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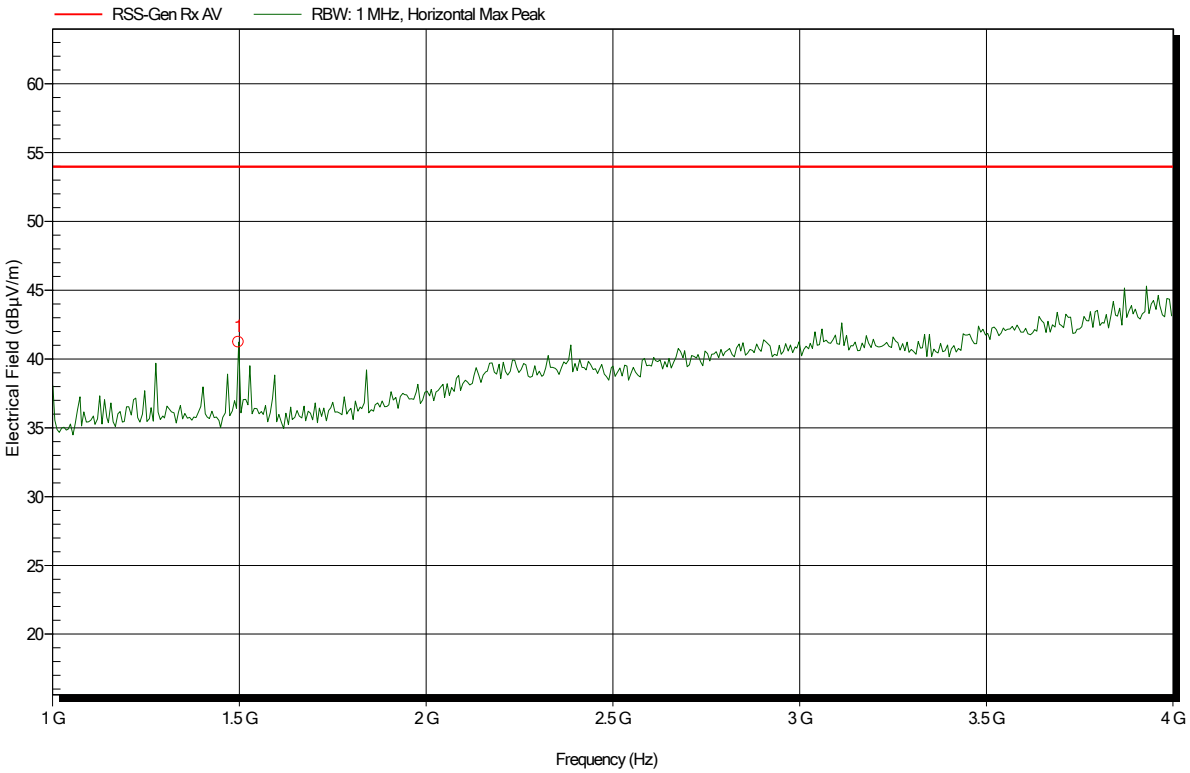

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.498 GHz	41.24 dBµV/m	53.98 dBµV/m	-12.74 dB	Pass

Spurious emissions according to ISED RSS-Gen

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	RX; BT Rx scan mode
Test Date:	2019-07-22
Note:	

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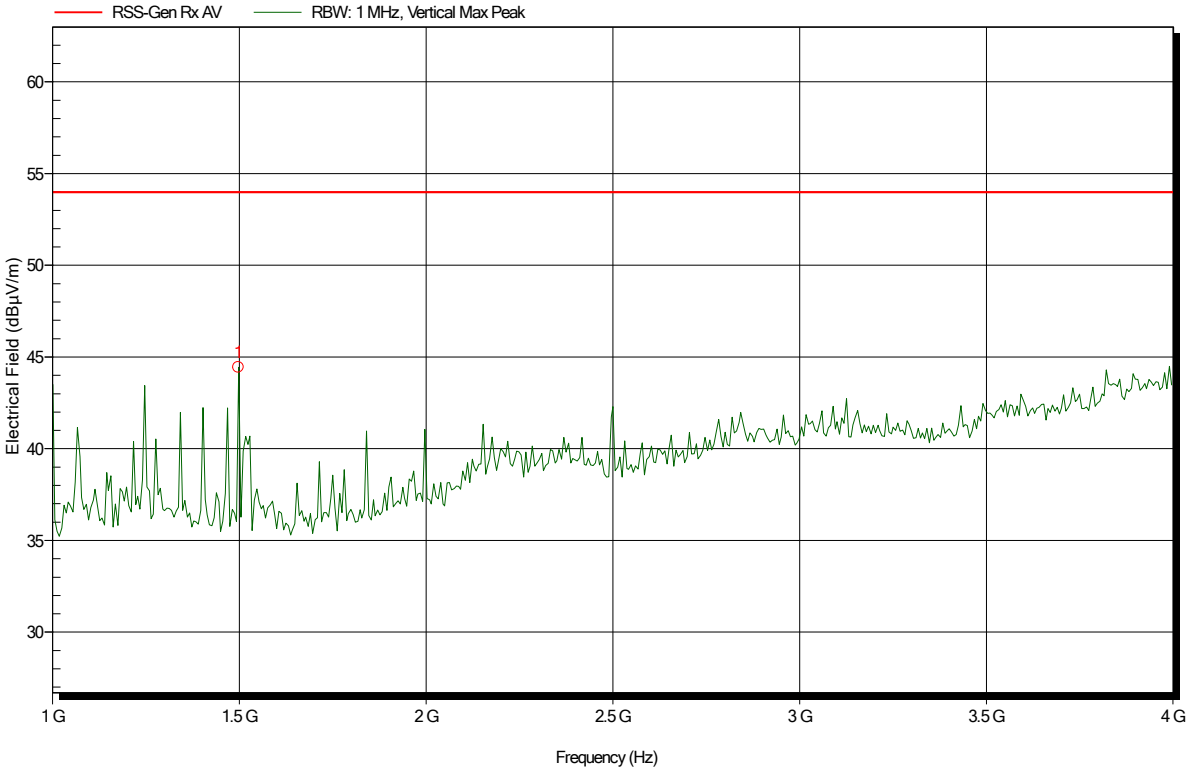

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.498 GHz	44.44 dBµV/m	53.98 dBµV/m	-9.54 dB	Pass

Spurious emissions according to ISED RSS-Gen

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	1 m
Mode:	RX; BT Rx scan mode
Test Date:	2019-07-22
Note:	

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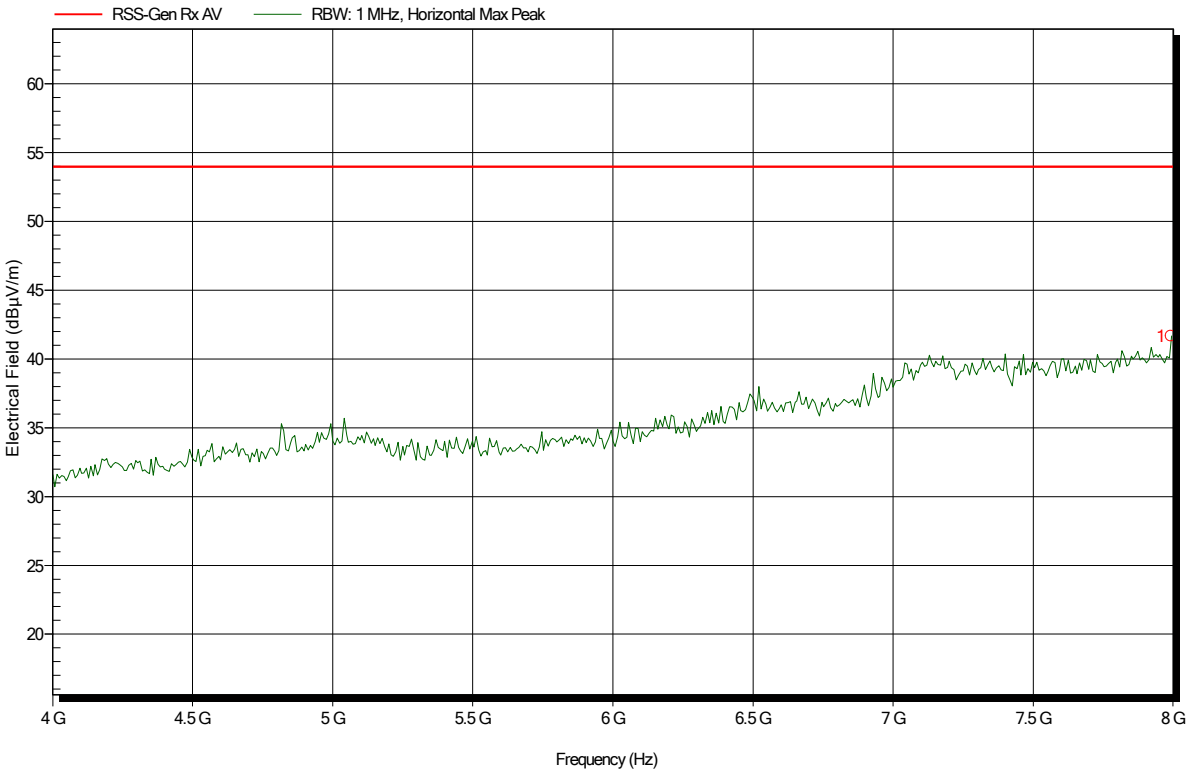

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
7.992 GHz	41.68 dBµV/m	53.98 dBµV/m	-12.3 dB	Pass

Spurious emissions according to ISED RSS-Gen

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	RX; BT Rx scan mode
Test Date:	2019-07-22
Note:	

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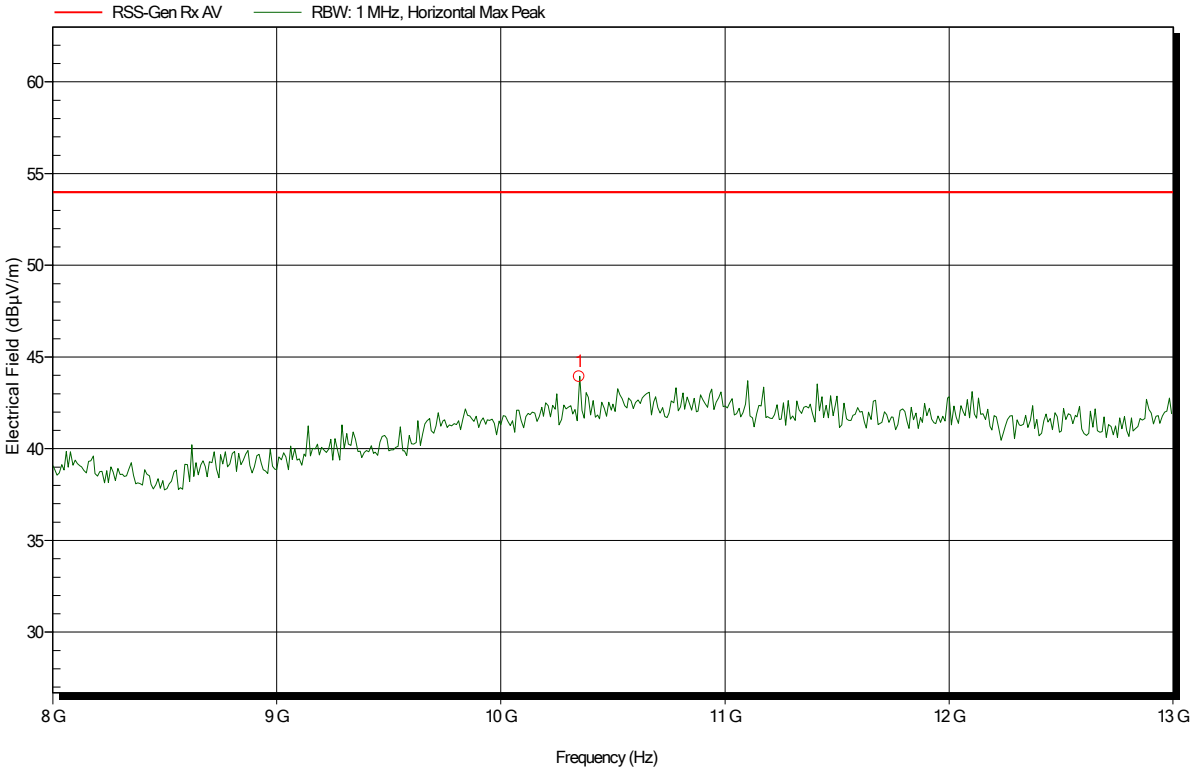

Frequency	Peak	Peak Limit	Peak Difference	Status
10.35 GHz	43.94 dBµV/m	53.98 dBµV/m	-10.04 dB	Pass

Spurious emissions according to ISED RSS-Gen

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m
Mode:	RX; BT Rx scan mode
Test Date:	2019-07-22
Note:	

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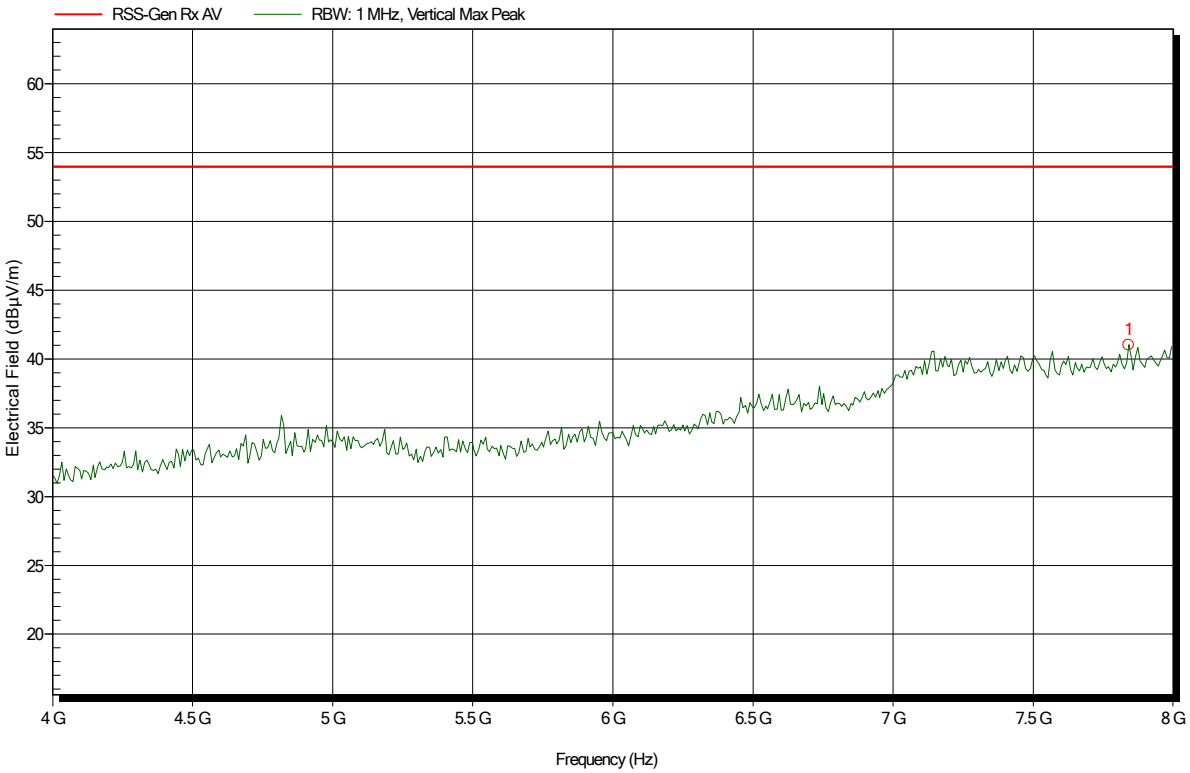

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
7.84 GHz	41.03 dBµV/m	53.98 dBµV/m	-12.95 dB	Pass

Spurious emissions according to ISED RSS-Gen

Project number:	G0M-1905-8271
Applicant:	Leica Geosystems AG
EUT Name:	Imaging Laser Scanner
Model:	BLK2GO
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom: 25°C, Vnom: 7.2 VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m converted to 3m
Mode:	RX; BT Rx scan mode
Test Date:	2019-07-22
Note:	

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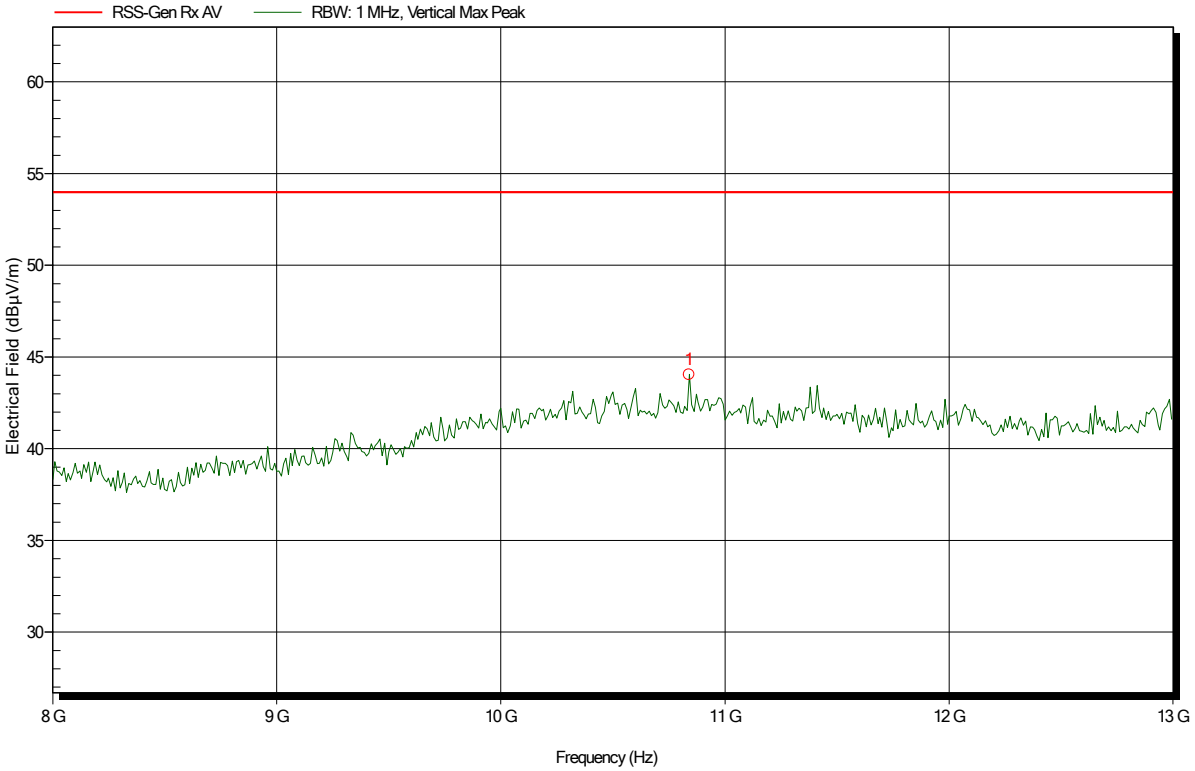

Frequency	Peak	Peak Limit	Peak Difference	Status
10.84 GHz	44.04 dBµV/m	53.98 dBµV/m	-9.94 dB	Pass