

RADIO TEST REPORT

FCC 47 CFR Part 15C

Digital transmission systems operating within the 2400.0 MHz - 2483.5 MHz band

Report Reference No	G0M-2509-3304-TFC247BL01-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	  Deutsche Akkreditierungsstelle D-PL-12092-01-00 DAkkS - Registration number : D-PL-12092-01-00 FCC Filed Test Laboratory, Reg.-No.: 96970
Applicant	ASSA ABLOY Sicherheitstechnik GmbH
Address	Goerzallee 299 14167 Berlin GERMANY
Test Specification	47 CFR Part 15C
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	CLIQ remote programming device
Model(s)	CLIQ Connect mobile PD
Brand Name(s)	None
Hardware Version(s)	4
Software Version(s)	3.0
FCC ID	2BVSN-MBM2BLE
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	See test sample identification table on page 6.	
Report:		
Compiled by	Azamat Ibraimov	
Tested by (+ signature) (Responsible for Test)	Azamat Ibraimov	 Digitally signed by Azamat Ibraimov Date: 2026.05.29 14:38:42 +02'00'
Approved by (+ signature) (Senior Radio Expert)	Radwan Jaafar	 Digitally signed by Radwan Jafaar Date: 2026.05.29 14:44:27 +02'00'
Date of Issue	2026-05-29	
Total number of pages	57	
General Remarks:		
1. The test results presented in this report relate only to the object tested, as it was provided by the customer, and under the test conditions described in this report. 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. 2. The relevant information are provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility. 3. The issuing testing laboratory tested the equipment mentioned on first page in accordance with the requirements set forth in the test specifications mentioned on first page. All indications of Pass/Fail in this report are opinions expressed by Eurofins Product Service GmbH based on interpretations and/or observations of test results. When the test result on first page shows the status "PASSED", the equipment tested is capable of demonstrating compliance with requirements as documented in this test report. 4. This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.		
Additional Comments:		
None		

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2026-05-29	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

REPORT INDEX

1	Equipment (Test Item) Under Test.....	6
1.1	Support Equipment.....	7
1.2	EUT Configuration.....	8
1.3	Test Modes	9
1.4	Test Frequencies.....	10
1.5	Sample emission level calculation.....	11
1.6	Measurement Uncertainties	12
2	Result Summary.....	13
3	Test Conditions and Results.....	14
3.1	Test Conditions and Results - Occupied bandwidth and 6 dB bandwidth	14
3.2	Test Conditions and Results - Maximum peak conducted output power	22
3.3	Test Conditions and Results - Power spectral density	27
3.4	Test Conditions and Results - Band-edge compliance.....	32
3.5	Test Conditions and Results - Conducted spurious emissions.....	36
3.6	Test Conditions and Results - Transmitter radiated emissions	41
ANNEX A	Transmitter spurious emissions	44
The following sections are in appendix 1 document:		
ANNEX B	Test setup photos.....	1
ANNEX C	Equipment photos	3

1 Equipment (Test Item) Under Test

Description	CLIQ remote programming device			
Model	CLIQ Connect mobile PD			
Brand Name(s)	None			
Sample Identification	EUT #	Sample-ID	Serial Number	Date of receipt
	EUT 1 (radiated)	53051	Prototype	2026-03-13
	EUT 1 (conducted)	53052	Prototype	2026-03-13
Hardware Version(s)	4			
Software Version(s)	3.0			
FCC ID	2BVSN-MBM2BLE			
Equipment type	End Product			
Radio type	Transceiver			
Assigned frequency bands	2400.0 MHz - 2483.5 MHz			
Radio technology	Bluetooth LE 5.1			
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			
Emission designator	F1D			
Number of antenna ports	1			
System on chip	Type	BLE		
	Model	CC2640R2F		
	Manufacturer	Texas Instruments		
	Hardware version	1		
	Software version	3.0		
Antenna	Type	Integrated		
	Model	NN03-320		
	Manufacturer	Ignion		
	Gain	-0.9 dBi (datasheet)		
Supply Voltage	V _{NOM}	4 x 1.5 V DC via non-rechargeable lithium batteries		
Operating Temperature	T _{NOM}	25°C		
Dedicated AC/DC-Adaptor	None			
Manufacturer	ASSA ABLOY Sicherheitstechnik GmbH Goerzallee 299 14167 Berlin GERMANY			

1.1 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	Laptop	DELL	E7470	To enable test mode
AE	JTAG Adapter	Spectrum Digital	XDS200	To enable test mode
SFT	Remote control software	Texas Instrumenrts	SmartRF Studio 7	To enable test mode
CBL	USB cable	--	--	To enable test mode, 0.5 m
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment: --				

1.2 EUT Configuration

Configuration #	Description
1	EUT is powered by internal non-rechargeable battery.
Comment: --	

1.3 Test Modes

Mode	Description
GFSK	Mode = Transmit Modulation = GFSK Spreading = None Duty cycle = 100% Power setting = 2 dBm (maximum software setting)
Comment: --	

1.4 Test Frequencies

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

1.5 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).

Margin:

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

Field strength limit:

This is the FCC Class B radiated emission limit (in units of 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:

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

Example only for radiated field strength:

$$\text{Reading} + \text{AF} = \text{Net Reading} \quad : \quad \text{Net reading} - \text{Field strength limit} = \text{Margin}$$

1.6 Measurement Uncertainties

Test case	Maximum measurement uncertainty
Occupied Bandwidth	1.3 %
20 dB Bandwidth	1.3 %
Frequency hopping channel separation	3.14 %
Time of occupancy (Dwell time)	78.53 %
Maximum peak conducted power	1.77 dB
AC power line conducted emissions	3.82 dB
Band edge compliance	1.8 dB
Conducted spurious emissions	4.25 dB
Transmitter radiated spurious emissions	5.95 dB
Receiver radiated spurious emissions	5.95 dB
6 dB Bandwidth	1.3 %
Power spectral density	1.73 dB

2 Result Summary

FCC 47 CFR Part 15C				
Product Standard Reference	Requirement	Reference Method	Result	Remarks
FCC § 15.247(a)(1)	20 dB Bandwidth	ANSI C63.10-2020	N/R	Information only
FCC § 15.247(a)(1)(iii)	Number of hopping frequencies	ANSI C63.10-2020	N/R	Not a hopping system
FCC § 15.247(a)(1)	Frequency hopping channel separation	ANSI C63.10-2020	N/R	Not a hopping system
FCC § 15.247(a)(1)(iii)	Time of occupancy (Dwell time)	ANSI C63.10-2020	N/R	Not a hopping system
FCC § 15.247(a)(2)	6 dB Bandwidth	ANSI C63.10-2020	PASS	--
FCC § 15.247(e)	Power spectral density	ANSI C63.10-2020	PASS	--
FCC § 15.247(b)	Maximum peak conducted power	ANSI C63.10-2020	PASS	--
FCC § 15.207	AC power line conducted emissions	ANSI C63.10-2020	N/R	Not directly or indirectly connected to AC-Mains
FCC § 15.247(d)	Band edge compliance	ANSI C63.10-2020	PASS	--
FCC § 15.247(d)	Conducted spurious emissions	ANSI C63.10-2020	PASS	--
FCC § 15.247(d) FCC § 15.209	Transmitter radiated spurious emissions	ANSI C63.10-2020	PASS	--
Comment: The Decision Rule is applied on the basis of ETSI TR 102 273 and ETSI TR 100 028. These standards provide guidance on how to calculate and apply measurement uncertainty whilst providing maximum uncertainties allowance. In all cases due consideration will be given to ILAC-G8:09/2019. Where a result is considered conditional in respect of its proximity to the limit line, the customer would be made aware of situation so that they can make an informed decision on how to proceed.				

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

3 Test Conditions and Results

3.1 Test Conditions and Results - Occupied bandwidth and 6 dB bandwidth

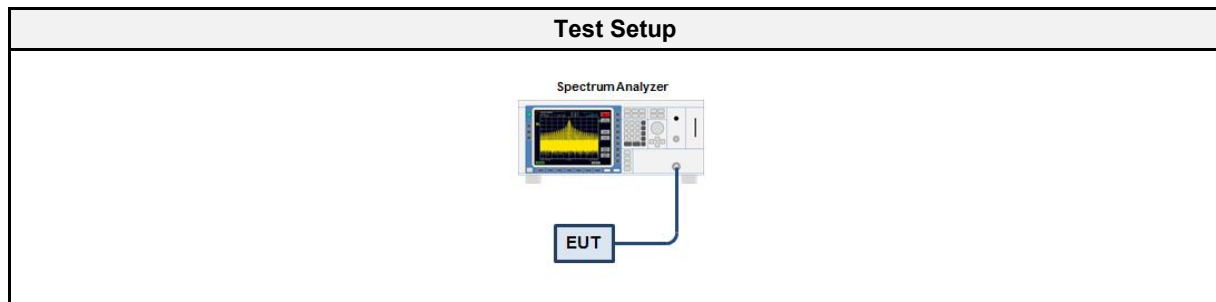
3.1.1 Information

Test Information	
Reference	FCC § 15.247(a)(2)
Measurement Method	ANSI C63.10 6.9.3; ANSI C63.10 11.8
Operator	Azamat Ibraimov
Date	2026-03-18

3.1.2 Limits

Limits
6 dB Bandwidth $\geq$ 500kHz

3.1.3 Setup



3.1.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSU 26	EF01407	2025-08	2026-08
Cable, 1.0 m	Gigalane	GL200sC-SMS111B	EF00779 CAABB	2025-03	2026-03

3.1.5 Procedure

Test Procedure - Occupied Bandwidth
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

Test Procedure - 6 dB Bandwidth
1. EUT set to test mode 2. Span set to at least twice the emission spectrum 3. Detector set to peak and max hold 4. RBW is set to 1% to 5% of occupied bandwidth but at least 100 kHz 5. Envelope peak value of emission spectrum is selected 6. Marker on envelope of spectrum is set to level of -6 dB to the left of the peak 7. Marker on envelope of spectrum is set to level of -6 dB to the right of the peak 8. 6 dB Bandwidth is determined by marker frequency separation

Test Report No.: G0M-2509-3304-TFC247BL01-V01

Eurofins Product Service GmbH
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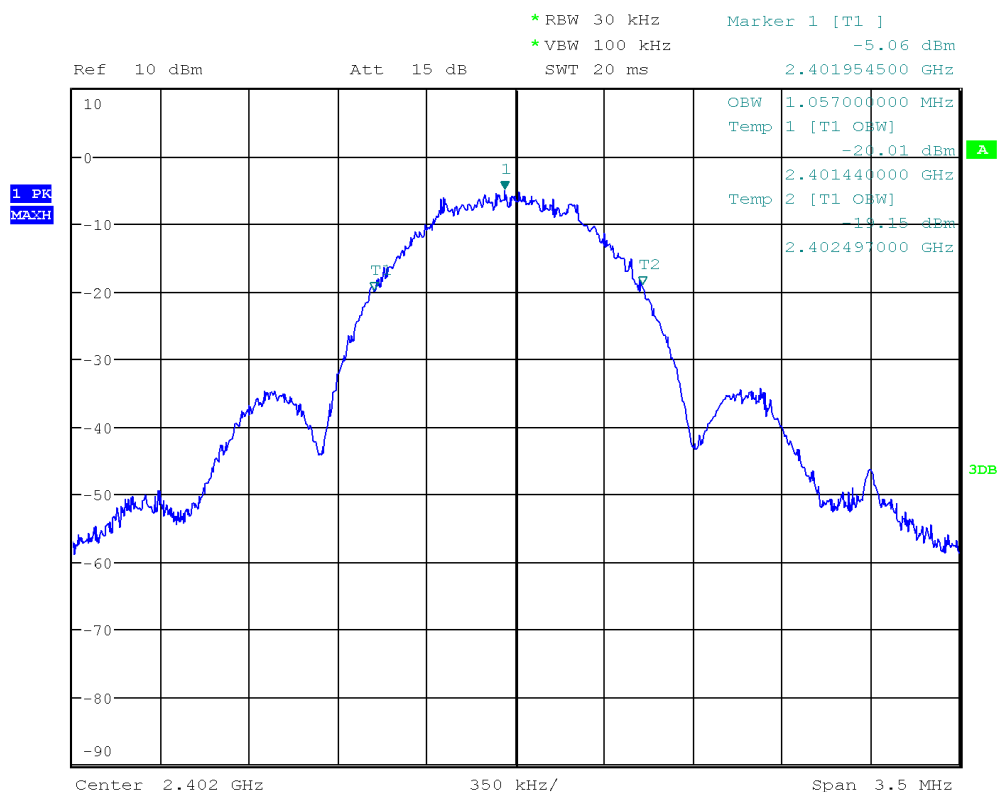
3.1.6 Results

Test Results - Occupied Bandwidth		
Mode	Frequency [MHz]	Bandwidth [MHz]
GFSK	2402	1.057
GFSK	2440	1.067
GFSK	2480	1.071

Test Results - 6 dB Bandwidth				
Mode	Frequency [MHz]	Bandwidth [kHz]	Limit [kHz]	Verdict
GFSK	2402	728	500	PASS
GFSK	2440	717	500	PASS
GFSK	2480	721	500	PASS

DTS (6 dB) Bandwidth and Occupied Bandwidth

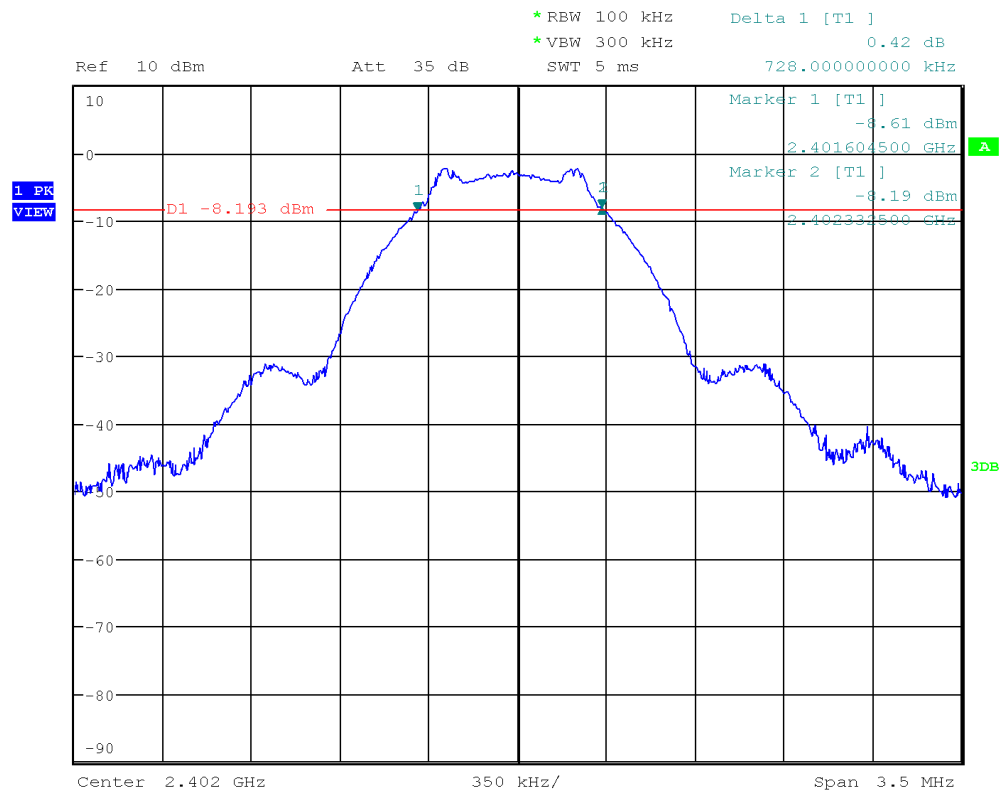
Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53052
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2020, Section 11.8.1 Option 1
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2026-03-18
 Occupied Bandwidth [MHz]: 1.057
 6 dB Bandwidth [kHz]: 728
 6 dB BW Lower Frequency [MHz]: 2401.604
 6 dB BW Upper Frequency [MHz]: 2402.332



Date: 18.MAR.2026 05:40:16

Test Report No.: G0M-2509-3304-TFC247BL01-V01

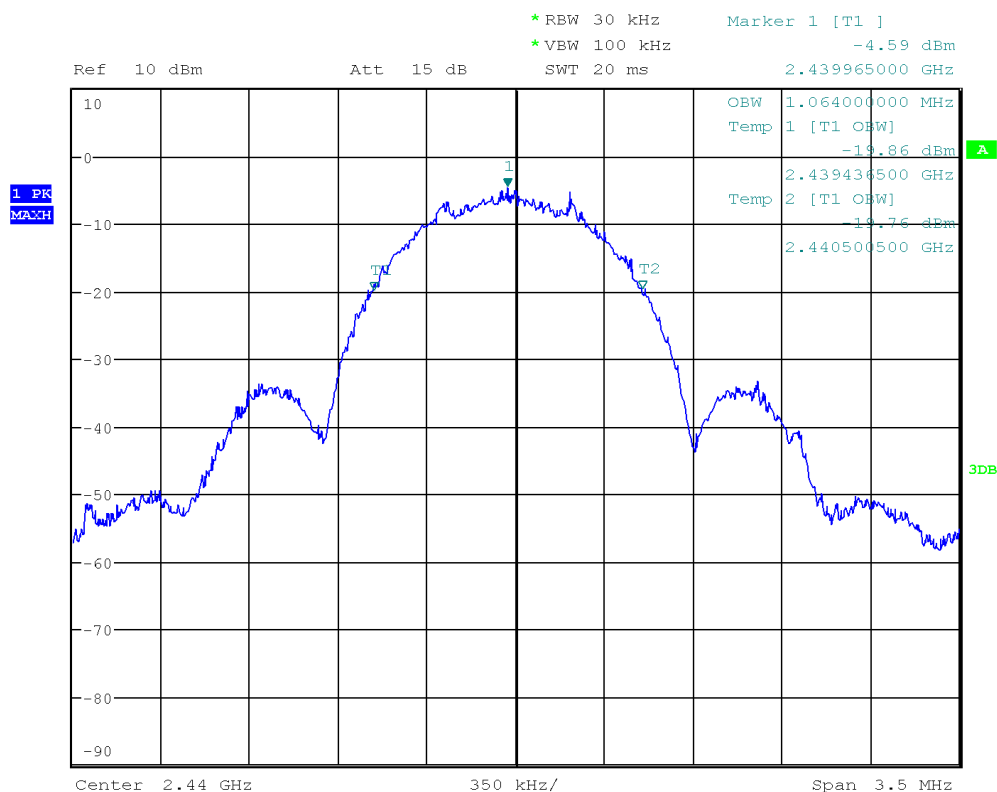
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany



Date: 18.MAR.2026 05:40:34

DTS (6 dB) Bandwidth and Occupied Bandwidth

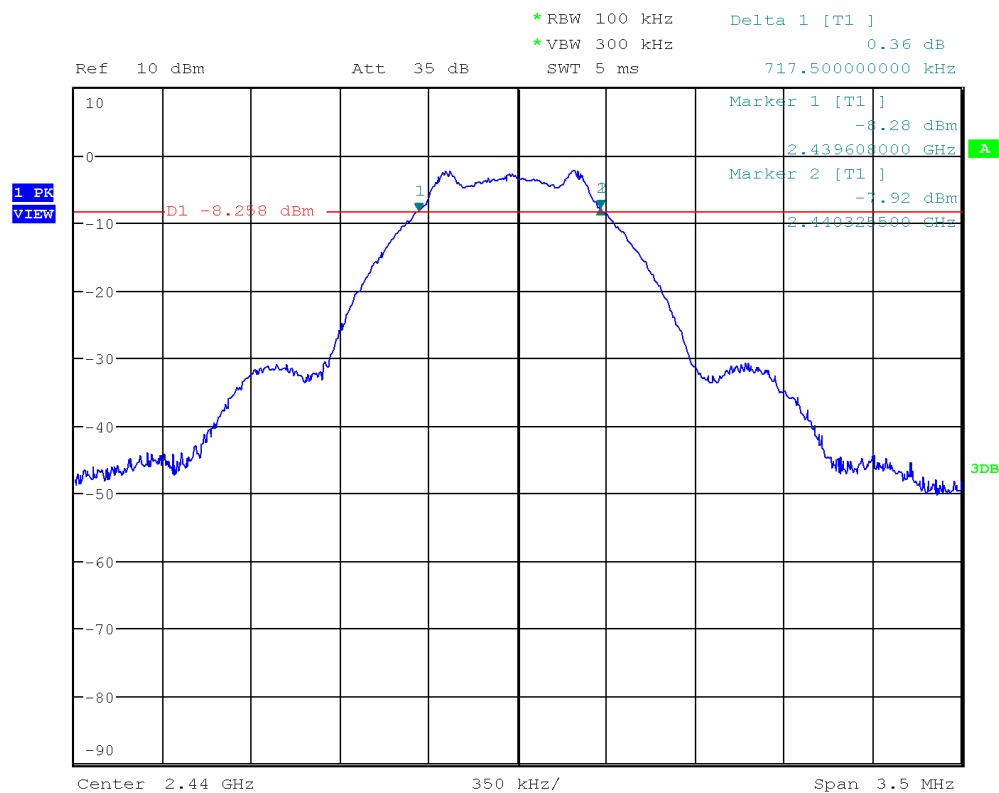
Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53052
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2020, Section 11.8.1 Option 1
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2026-03-18
 Occupied Bandwidth [MHz]: 1.067
 6 dB Bandwidth [kHz]: 717
 6 dB BW Lower Frequency [MHz]: 2439.608
 6 dB BW Upper Frequency [MHz]: 2440.325



Date: 18.MAR.2026 05:47:17

Test Report No.: G0M-2509-3304-TFC247BL01-V01

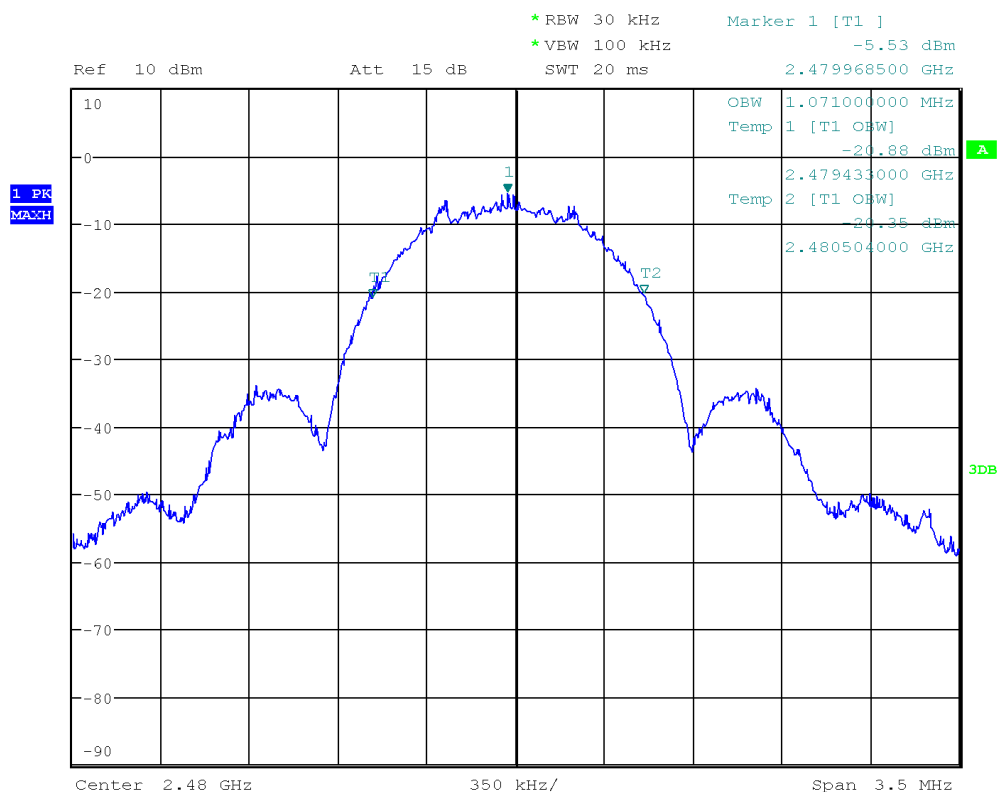
Eurofins Product Service GmbH
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Date: 18.MAR.2026 05:47:36

DTS (6 dB) Bandwidth and Occupied Bandwidth

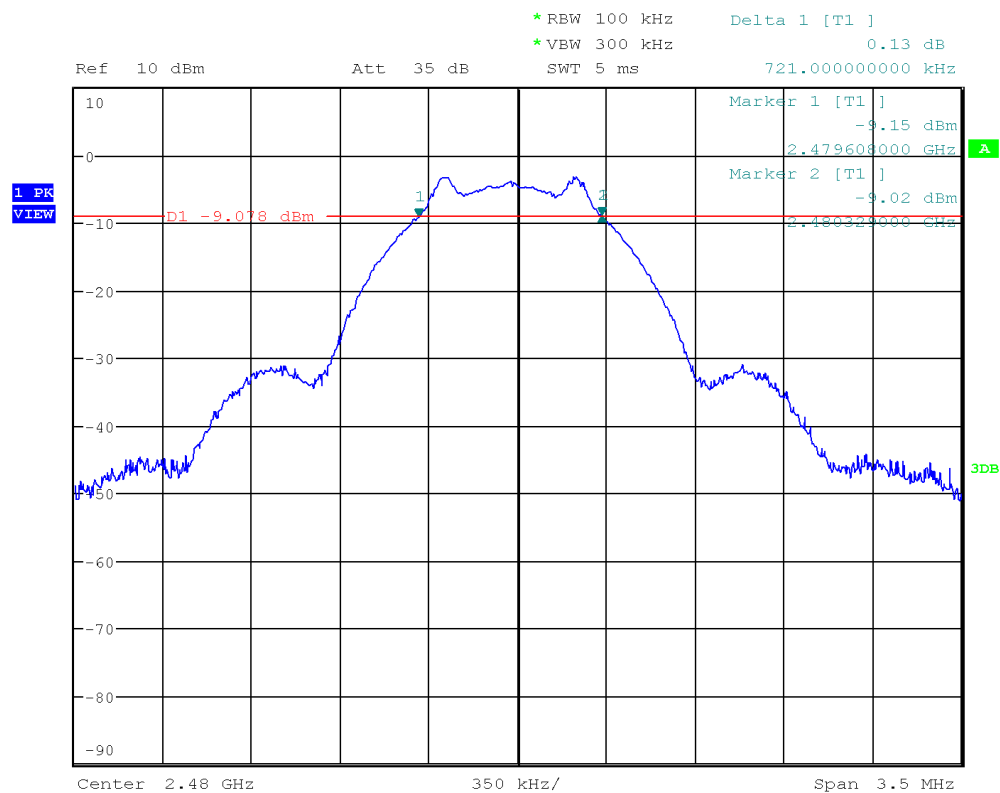
Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53052
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2020, Section 11.8.1 Option 1
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2026-03-18
 Occupied Bandwidth [MHz]: 1.071
 6 dB Bandwidth [kHz]: 721
 6 dB BW Lower Frequency [MHz]: 2479.608
 6 dB BW Upper Frequency [MHz]: 2480.329



Date: 18.MAR.2026 05:53:33

Test Report No.: G0M-2509-3304-TFC247BL01-V01

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Date: 18.MAR.2026 05:53:57

3.2 Test Conditions and Results - Maximum peak conducted output power

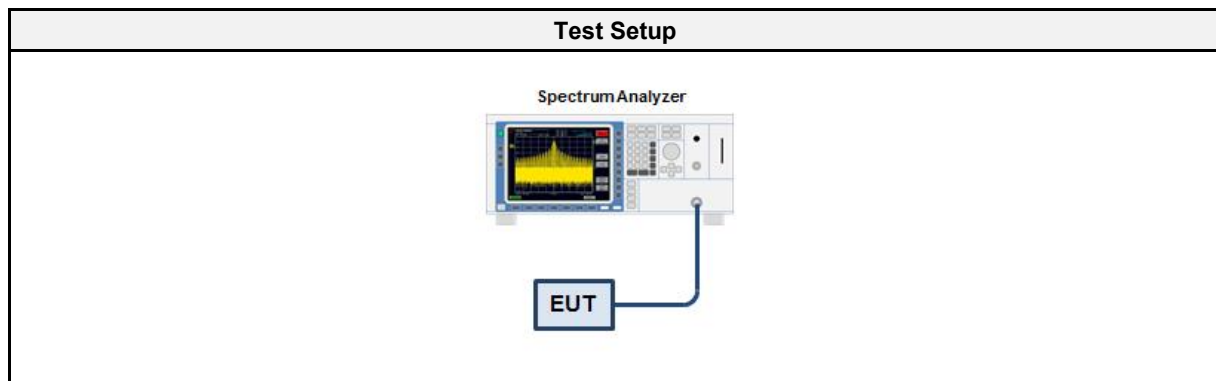
3.2.1 Information

Test Information	
Reference	FCC § 15.247(b)
Measurement Method	ANSI C63.10 11.9.1
Operator	Azamat Ibraimov
Date	2026-03-18

3.2.2 Limits

Limits
Conducted: 1 W (30 dBm); EIRP: 4 W (36 dBm)

3.2.3 Setup



3.2.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSU 26	EF01407	2025-08	2026-08
Cable, 1.0 m	Gigalane	GL200sC-SMS111B	EF00779 CAABB	2025-03	2026-03

3.2.5 Procedure

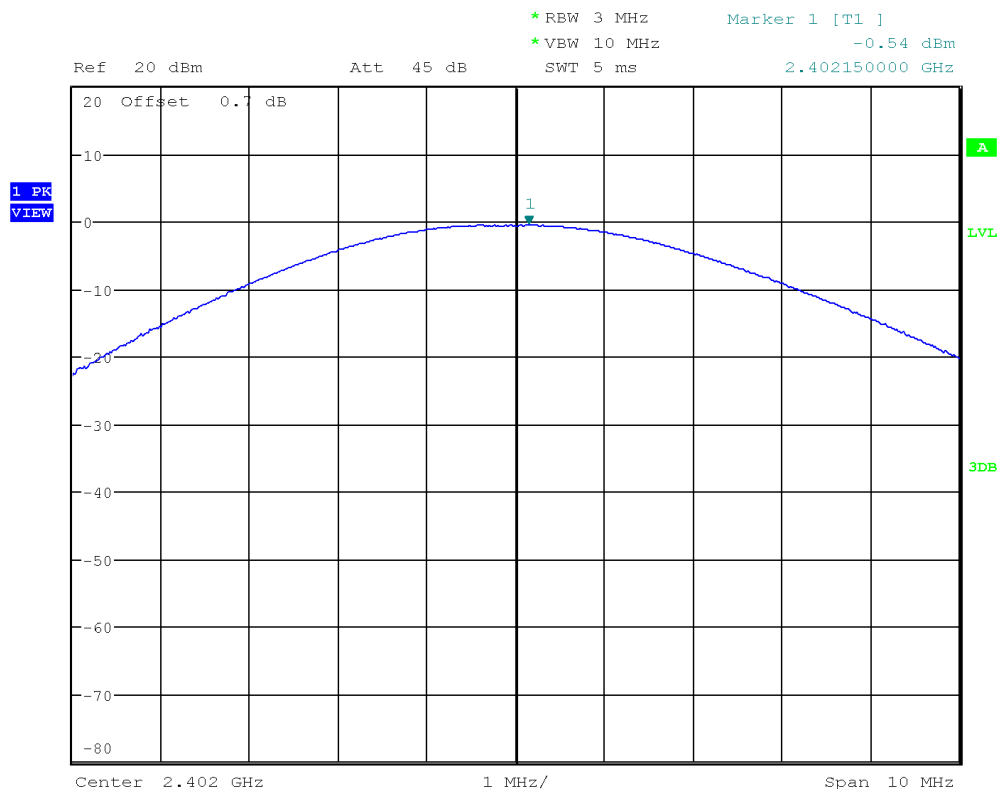
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Analyzer resolution bandwidth is set $\geq$ DTS bandwidth 3. Detector set to peak and max hold 4. Sweep time is set to auto 5. After the trace has stabilized a marker is set to peak of envelope

3.2.6 Results

Test Results							
Channel [MHz]	Power [dBm]	Power [W]	Limit [W]	Antenna Gain	E.I.R.P. [W]	E.I.R.P. Limit [W]	Verdict
2402	-0.536	0.0009	1.0	0.813	0.00073	4.0	PASS
2440	-0.871	0.0008	1.0	0.813	0.00065	4.0	PASS
2480	-2.074	0.0006	1.0	0.813	0.00048	4.0	PASS

Peak Conducted Output Power

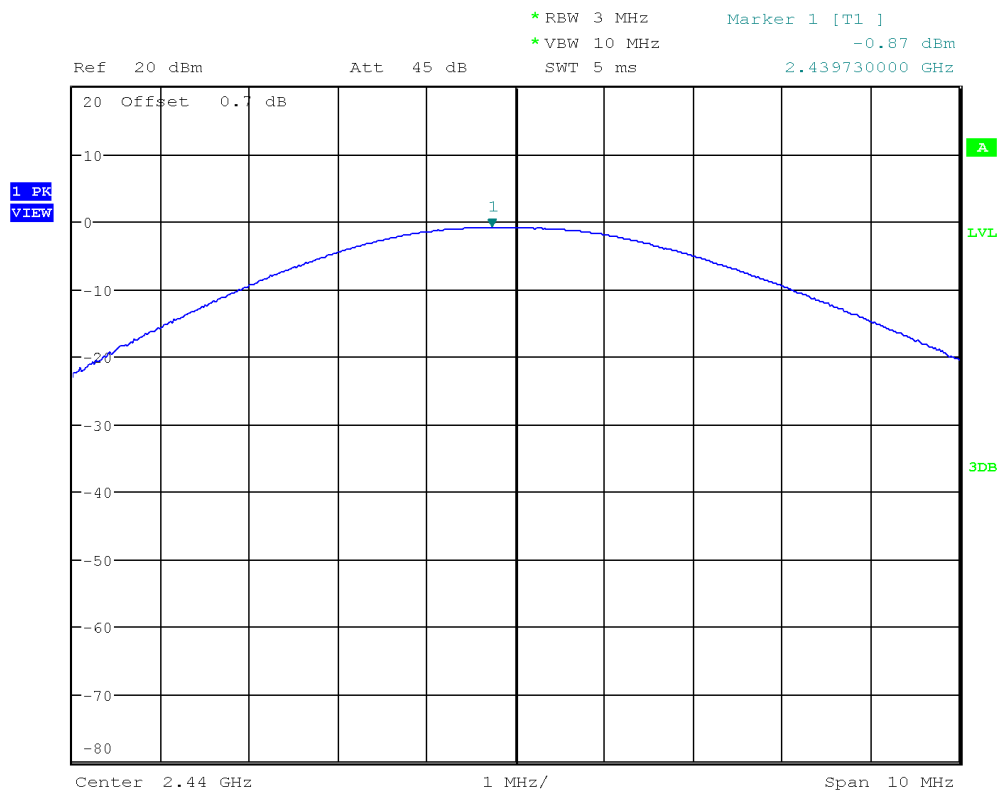
Project Number:	G0M-2509-3304
Applicant:	ASSA ABLOY Sicherheitstechnik GmbH
Model Description:	CLIQ remote programming device
Model:	CLIQ Connect mobile PD
Test Sample ID:	53052
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2020, Section 11.9.1.1
Operational Mode:	GFSK, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2026-03-18
Peak Power [dBm]:	-0.536
Peak Power [W]:	0.0009



Date: 18.MAR.2026 05:41:21

Peak Conducted Output Power

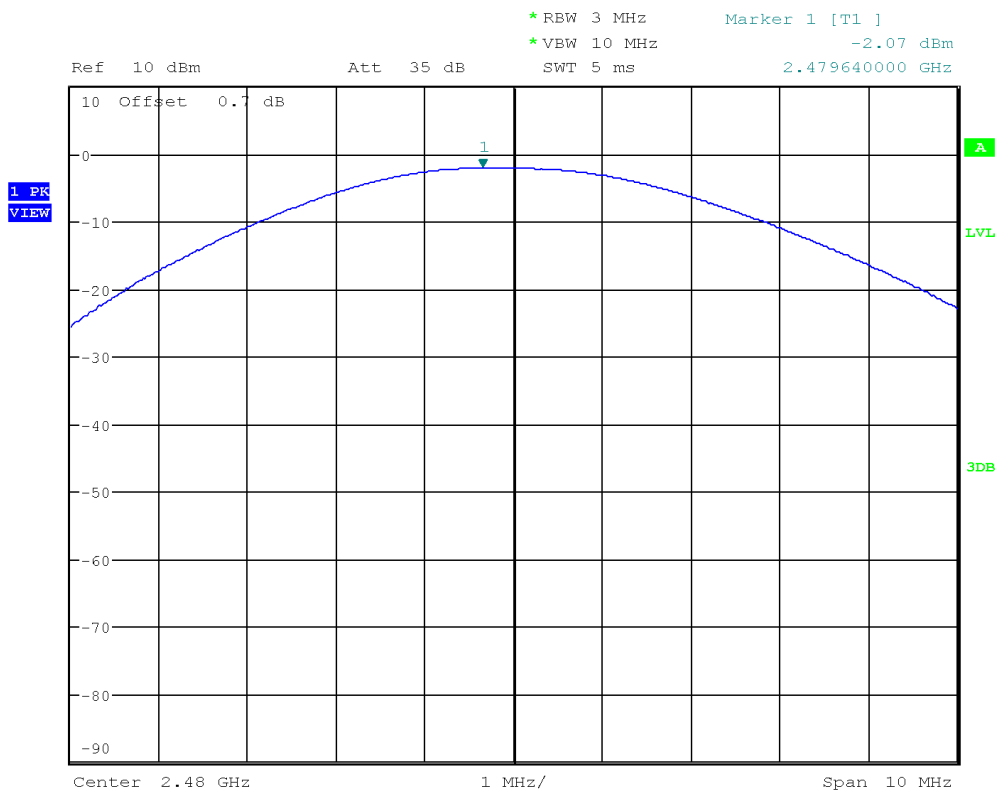
Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53052
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2020, Section 11.9.1.1
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2026-03-18
 Peak Power [dBm]: -0.871
 Peak Power [W]: 0.0008



Date: 18.MAR.2026 05:51:22

Peak Conducted Output Power

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53052
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2020, Section 11.9.1.1
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2026-03-18
 Peak Power [dBm]: -2.074
 Peak Power [W]: 0.0006



Date: 18.MAR.2026 05:58:25

3.3 Test Conditions and Results - Power spectral density

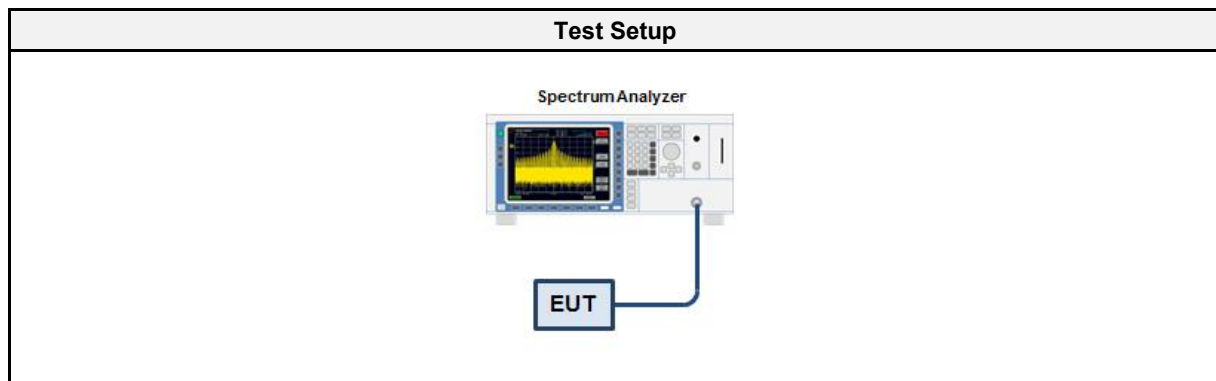
3.3.1 Information

Test Information	
Reference	FCC § 15.247(e)
Measurement Method	ANSI C63.10 11.10.2, 14.5.2
Operator	Azamat Ibraimov
Date	2026-03-18

3.3.2 Limits

Limits
8 dBm / 3 kHz

3.3.3 Setup



3.3.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSU 26	EF01407	2025-08	2026-08
Cable, 1.0 m	Gigalane	GL200sC-SMS111B	EF00779 CAABB	2025-03	2026-03

3.3.5 Procedure

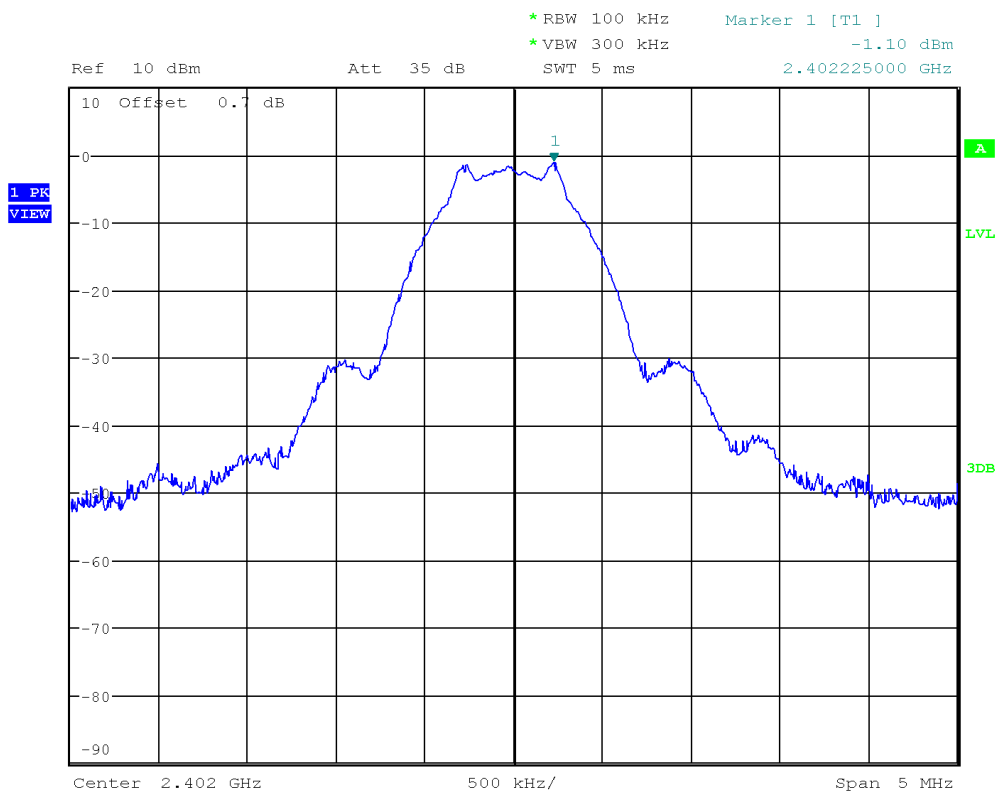
Test Procedure
1. EUT set to test mode 2. The analyzer is set to DTS channel center frequency with a span of 1.5 times the DTS bandwidth 3. The RBW is set to 100 kHz with VBW $\geq$ RBW and the detector is set to peak with max hold 4. After the trace has stabilized a marker is set to the envelope maximum 5. If the power spectral density is above the limit the RBW is reduced (not lower than 3 kHz) and the measurement is repeated 6. If the EUT has more than one transmit chain the procedure is repeated for each transmit chain

3.3.6 Results

Test Results			
Channel [MHz]	PSD [dBm/RBW]	Limit [dBm/3kHz]	Verdict
2402	-1.099	8.0	PASS
2440	-1.397	8.0	PASS
2480	-2.634	8.0	PASS
RBW = 100 kHz			

Peak Power Spectral Density

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53052
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2020, Section 11.10.2
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2026-03-18
 Peak Frequency [MHz]: 2402.225
 Spectral Density [dBm/RBW]: -1.099
 Resolution Bandwidth [kHz]: 100 kHz



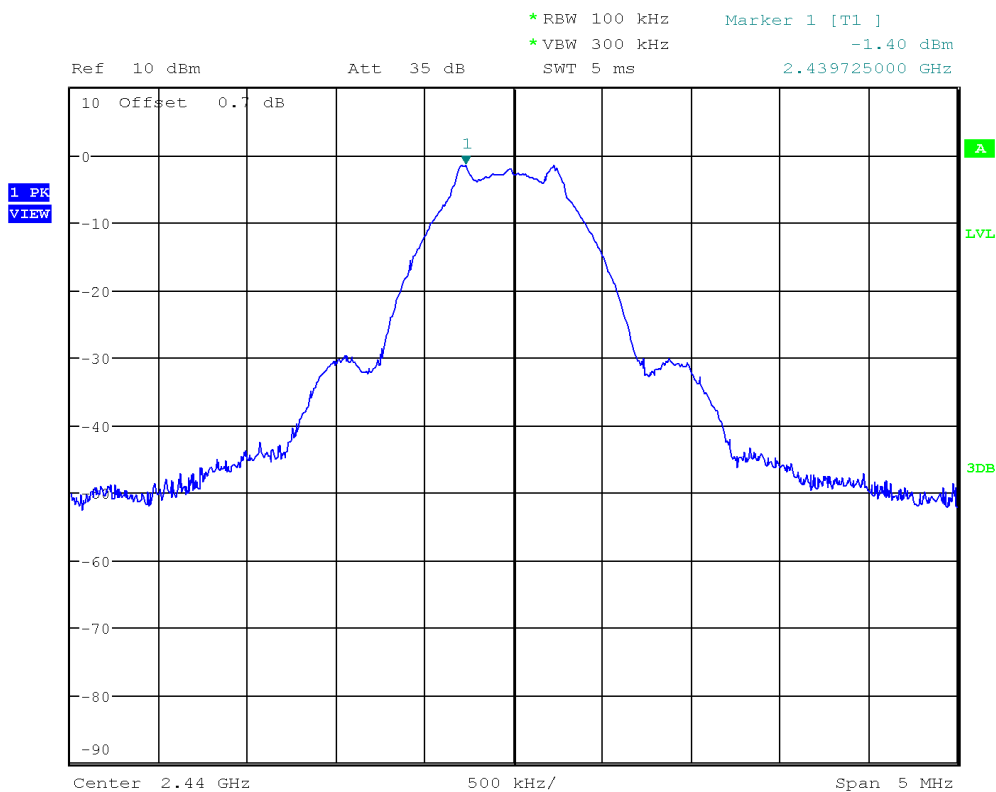
Date: 18.MAR.2026 05:42:14

Test Report No.: G0M-2509-3304-TFC247BL01-V01

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Peak Power Spectral Density

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53052
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2020, Section 11.10.2
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2026-03-18
 Peak Frequency [MHz]: 2439.725
 Spectral Density [dBm/RBW]: -1.397
 Resolution Bandwidth [kHz]: 100 kHz



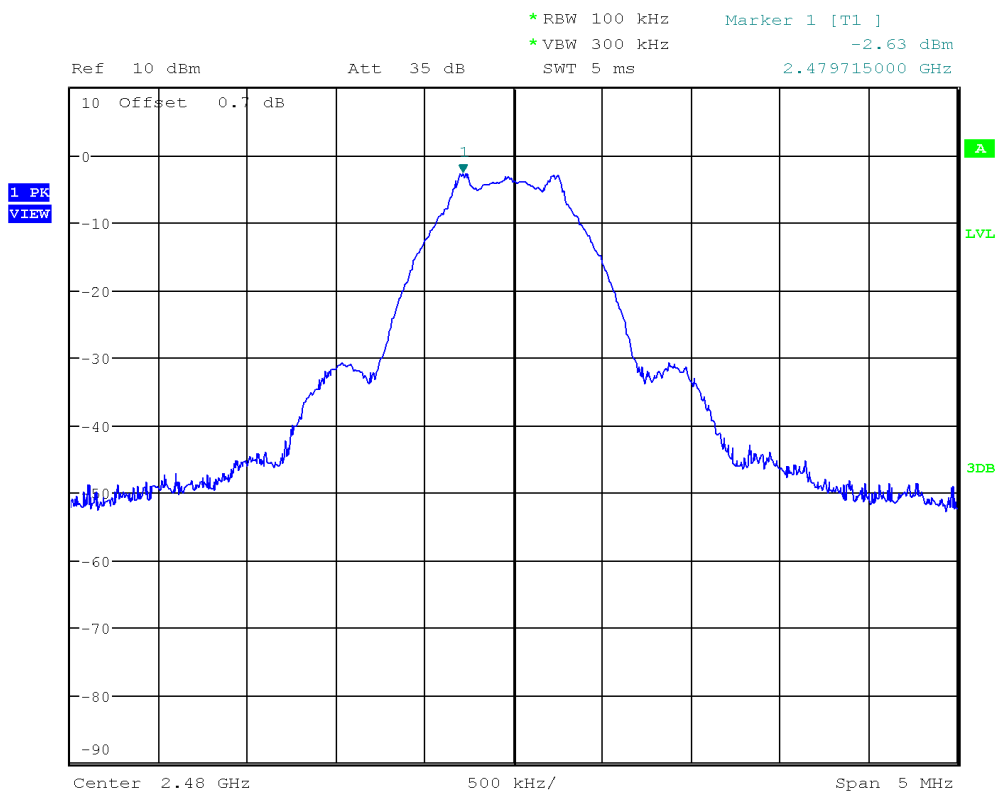
Date: 18.MAR.2026 05:52:12

Test Report No.: G0M-2509-3304-TFC247BL01-V01

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Peak Power Spectral Density

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53052
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2020, Section 11.10.2
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2026-03-18
 Peak Frequency [MHz]: 2479.715
 Spectral Density [dBm/RBW]: -2.634
 Resolution Bandwidth [kHz]: 100 kHz



Date: 18.MAR.2026 05:59:12

Test Report No.: G0M-2509-3304-TFC247BL01-V01

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

3.4 Test Conditions and Results - Band-edge compliance

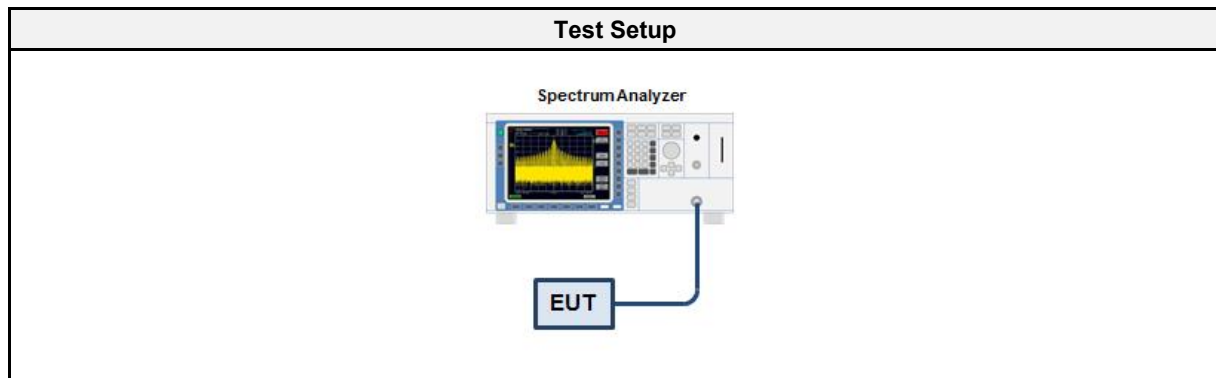
3.4.1 Information

Test Information	
Reference	FCC § 15.247(d)
Measurement Method	ANSI C63.10 6.10; ANSI C63.10 11.11;
Operator	Azamat Ibraimov
Date	2026-03-18

3.4.2 Limits

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

3.4.3 Setup



3.4.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSU 26	EF01407	2025-08	2026-08
Cable, 1.0 m	Gigalane	GL200sC-SMS111B	EF00779 CAABB	2025-03	2026-03

3.4.5 Procedure

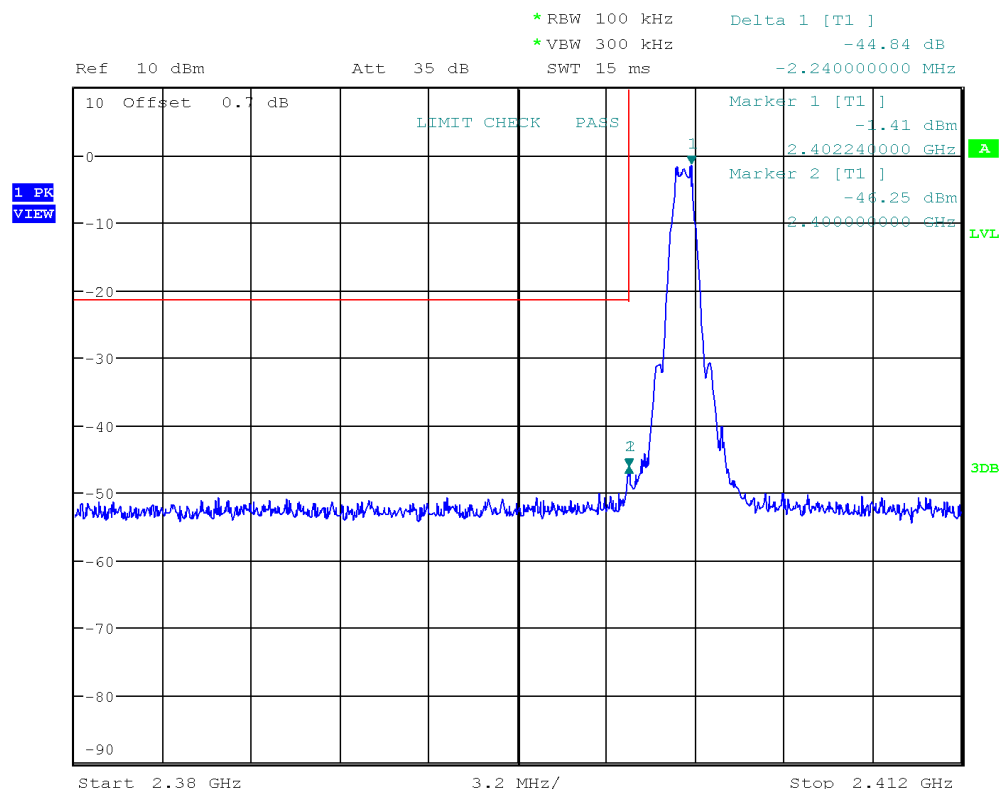
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels within frequency band and outside frequency band 5. Band edge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

3.4.6 Results

Test Results				
Mode	Channel [MHz]	Out-of-band Attenuation [dB]	Limit [dB]	Verdict
GFSK	2402	-44.84	-20	PASS
GFSK	2480	-46.5	-20	PASS

Emissions in nonrestricted frequency bands at the Band-edge

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53052
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2020, Section 11.11, 6.10.4
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2026-03-18
 Band-edge: Lower
 In-band Frequency [MHz]: 2402.24
 Max. in-band Level [dBm/100 kHz]: -1.413
 Out-of-band Frequency [MHz]: 2400.0
 Max. out-of-band Level [dBm/100 kHz]: -46.249
 Attenuation [dB]: -44.84



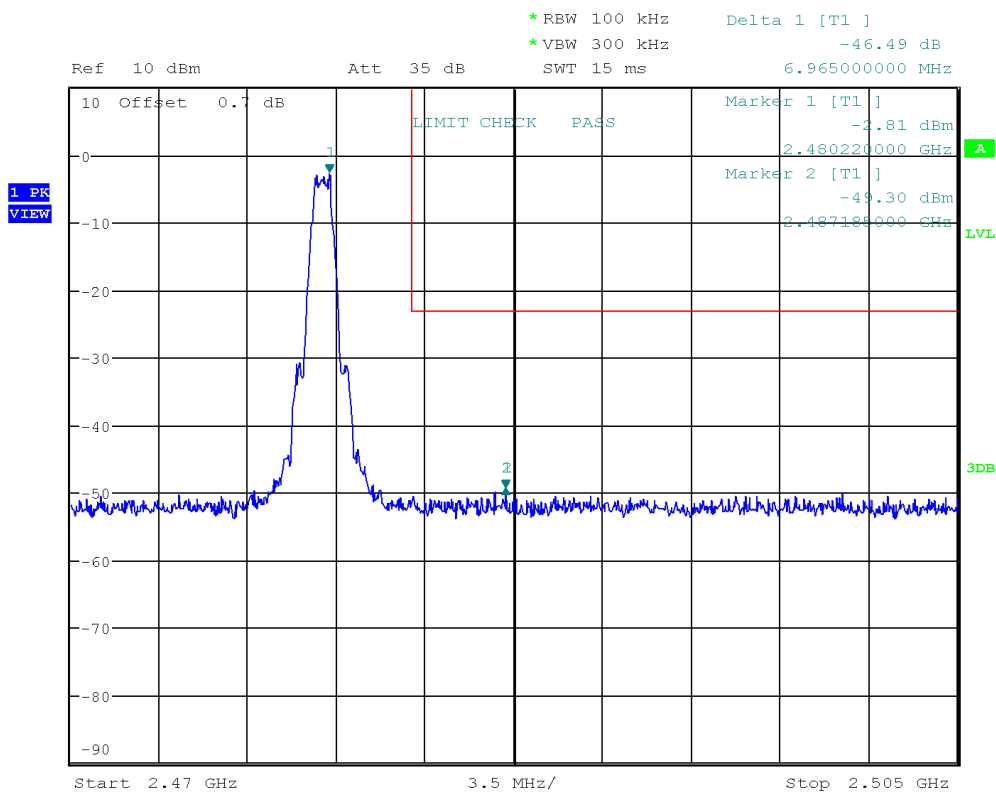
Date: 18.MAR.2026 05:43:02

Test Report No.: G0M-2509-3304-TFC247BL01-V01

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

Emissions in nonrestricted frequency bands at the Band-edge

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53052
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2020, Section 11.11, 6.10.4
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2026-03-18
 Band-edge: Upper
 In-band Frequency [MHz]: 2480.22
 Max. in-band Level [dBm/100 kHz]: -2.809
 Out-of-band Frequency [MHz]: 2487.185
 Max. out-of-band Level [dBm/100 kHz]: -49.304
 Attenuation [dB]: -46.5



Date: 18.MAR.2026 05:54:38

Test Report No.: G0M-2509-3304-TFC247BL01-V01

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

3.5 Test Conditions and Results - Conducted spurious emissions

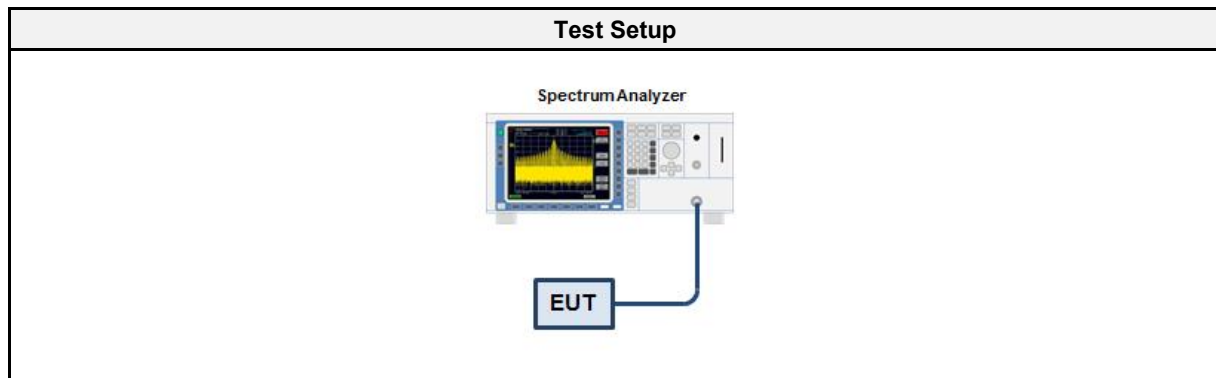
3.5.1 Information

Test Information	
Reference	FCC § 15.247(d)
Measurement Method	ANSI C63.10 11.11
Operator	Azamat Ibraimov
Date	2026-03-18

3.5.2 Limits

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

3.5.3 Setup



3.5.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSU 26	EF01407	2025-08	2026-08
Cable, 1.0 m	Gigalane	GL200sC-SMS111B	EF00779 CAABB	2025-03	2026-03

3.5.5 Procedure

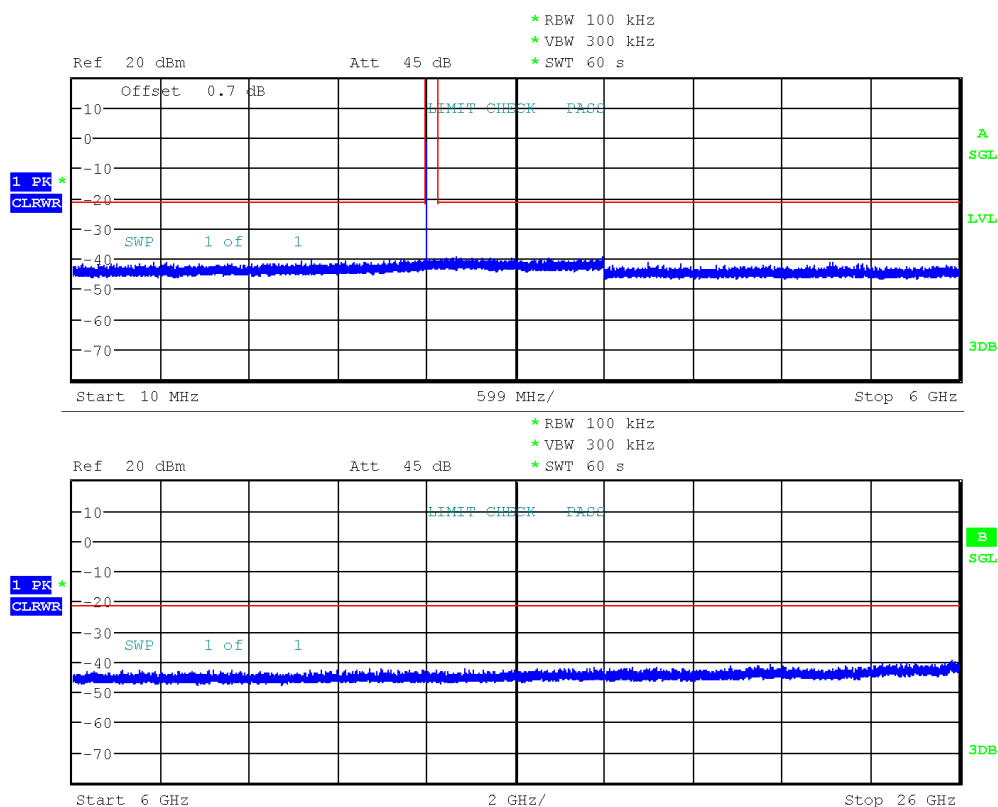
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels outside frequency band

3.5.6 Results

Test Results		
Mode	Channel [MHz]	Verdict
GFSK	2402	PASS
GFSK	2440	PASS
GFSK	2480	PASS

Conducted Spurious Emissions

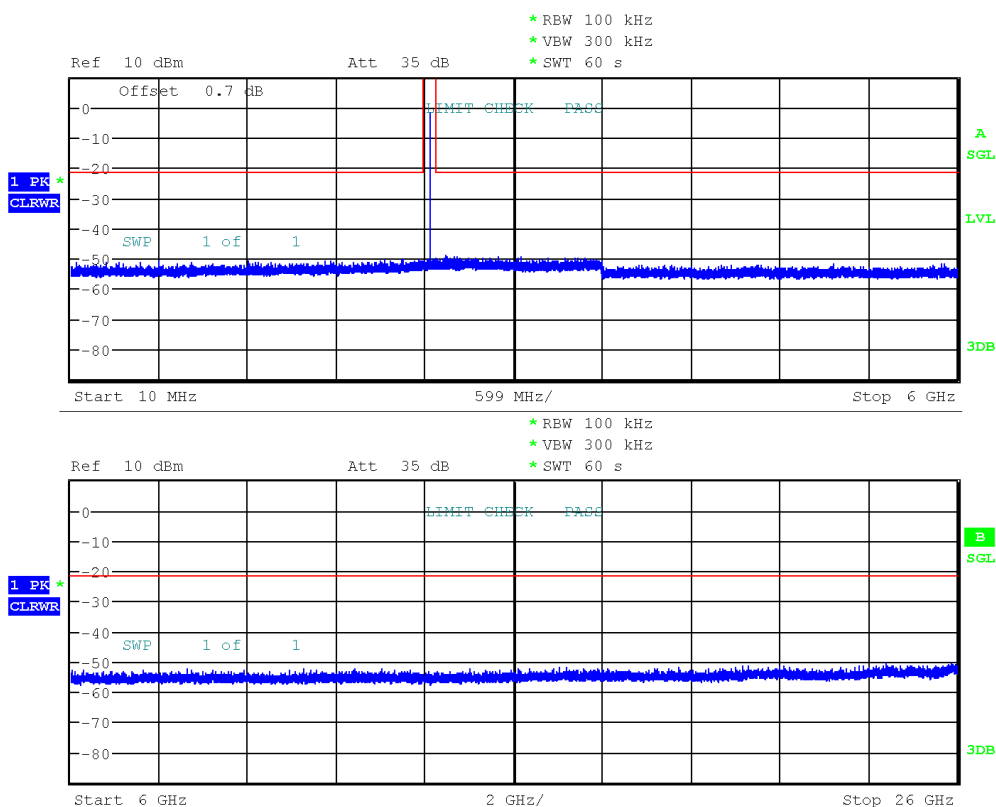
Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53052
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2020, Section 11.11
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2026-03-18
 Max. in-band Frequency [MHz]: 2402.2
 Max. in-band Level [dBm/100 kHz]: -1.1
 Out-of-band Limit [dBm/100 kHz]: -21.1



Date: 18.MAR.2026 05:46:05

Conducted Spurious Emissions

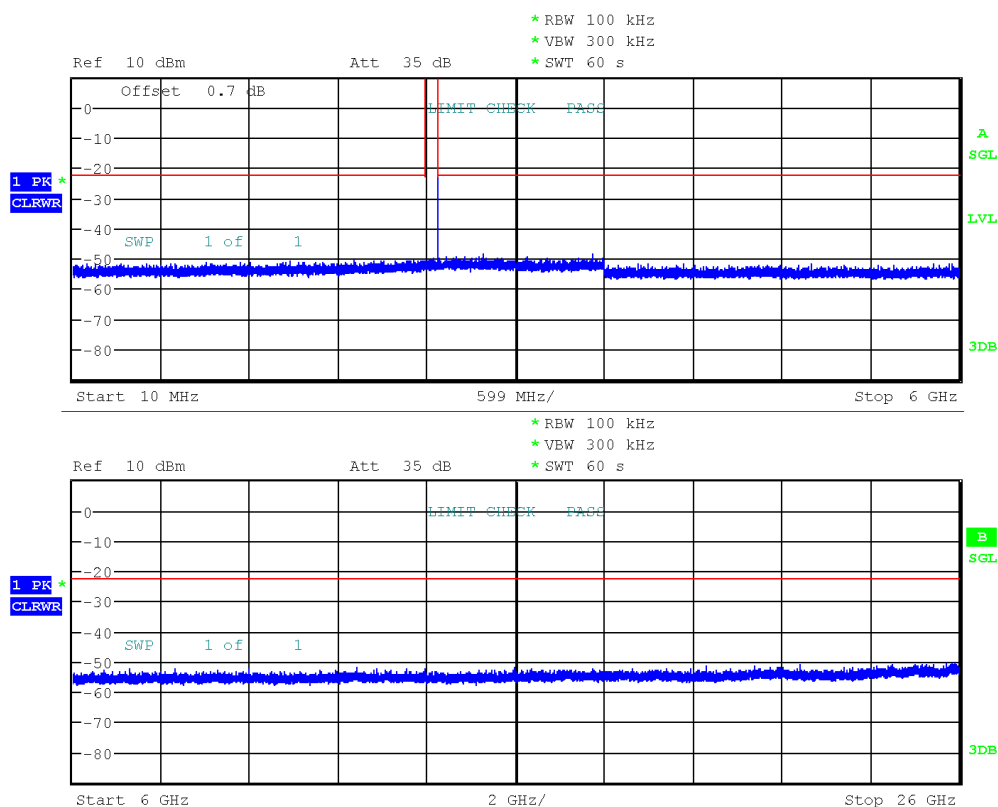
Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53052
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2020, Section 11.11
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2026-03-18
 Max. in-band Frequency [MHz]: 2440.2
 Max. in-band Level [dBm/100 kHz]: -1.4
 Out-of-band Limit [dBm/100 kHz]: -21.4



Date: 18.MAR.2026 05:50:38

Conducted Spurious Emissions

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53052
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2020, Section 11.11
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2026-03-18
 Max. in-band Frequency [MHz]: 2480.2
 Max. in-band Level [dBm/100 kHz]: -2.6
 Out-of-band Limit [dBm/100 kHz]: -22.6



Date: 18.MAR.2026 05:57:38

3.6 Test Conditions and Results - Transmitter radiated emissions

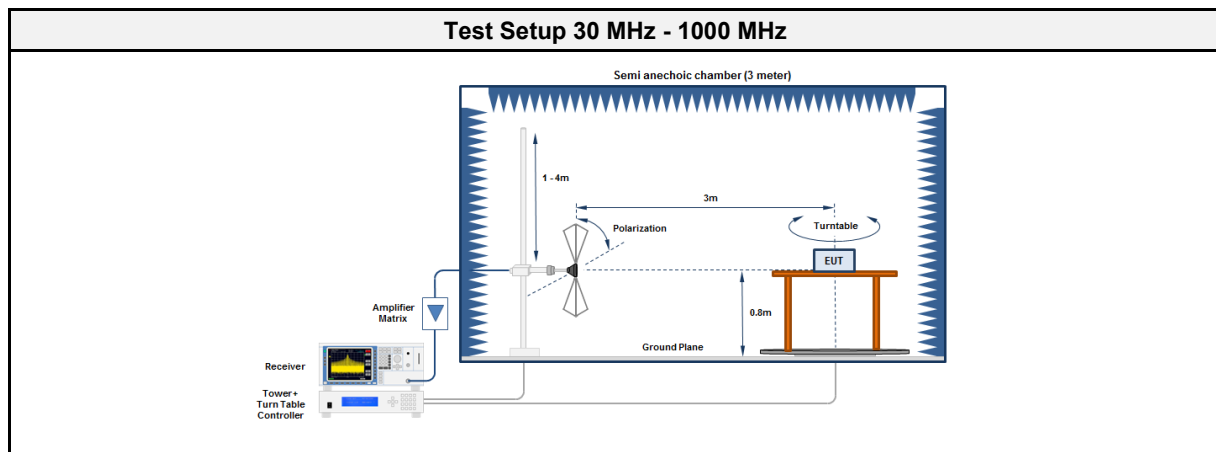
3.6.1 Information

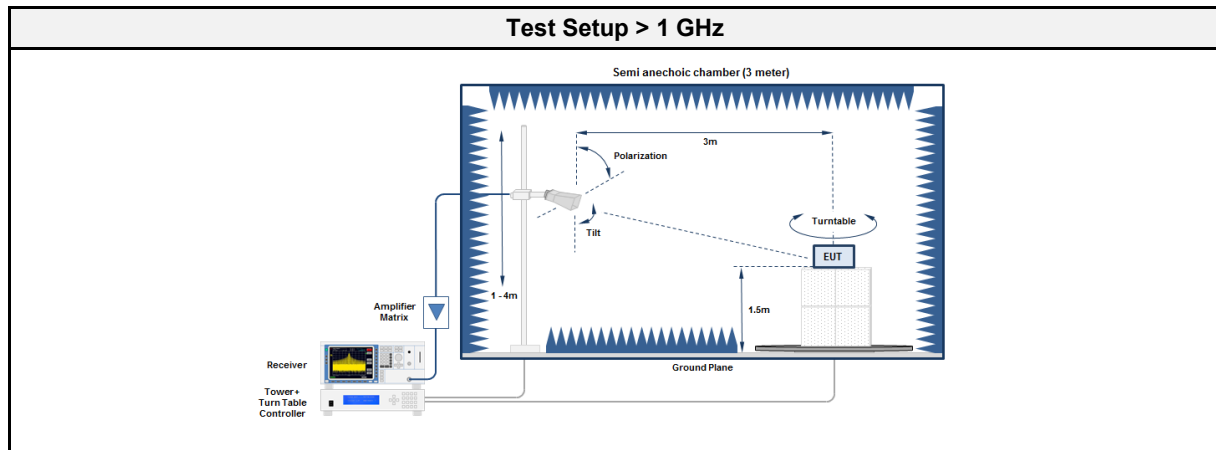
Test Information	
Reference	FCC § 15.247(d); FCC § 15.209
Measurement Method	ANSI C63.10 6.4, 6.5, 6.6, 11.12
Operator	Azamat Ibraimov
Date	2026-03-17

3.6.2 Limits

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

3.6.3 Setup





3.6.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	Raditeq B.V.	RadiMation	2024.2.5

Test Equipment 30 MHz - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Semi-Anechoic chamber (NSA)	Frankonia	AC1	EF00062	2024-07	2027-07
EMI Test Receiver	R&S	ESW 44	EF01856	2025-10	2026-10
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	EF01824	2025-10	2028-10

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Semi-Anechoic chamber (SVSWR)	Frankonia	AC1	EF01011	2024-07	2027-07
EMI Test Receiver	R&S	ESW 44	EF01856	2025-10	2026-10
Horn antenna	Schwarzbeck	BBHA 9120D	EF01561	2024-11	2027-11
Double Ridged Waveguide Horn Antenna	Schwarzbeck	HWRD 650	EF01679	2024-05	2027-05
Antenna	Amplifier Research	AT4560	EF00302	2023-09	2026-09

3.6.5 Procedure

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

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

3.6.6 Results

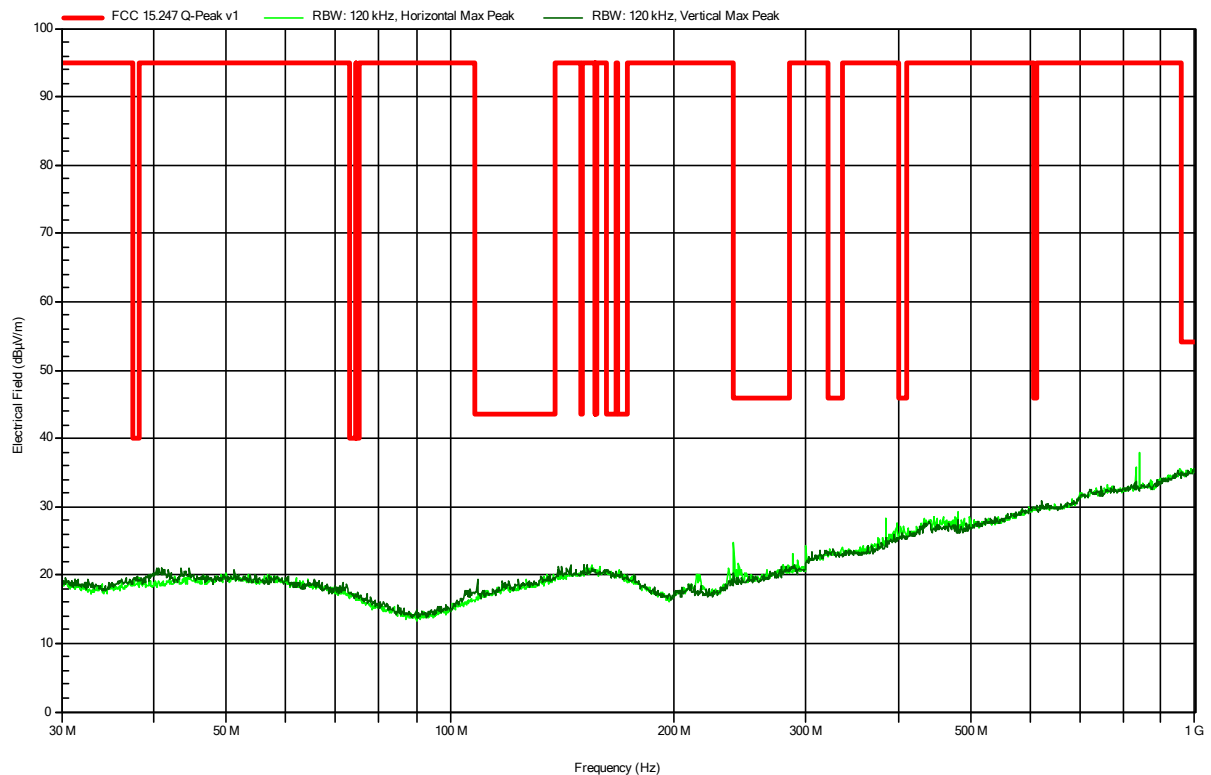
Test Results						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
2440	7319.95	48.12	pk	hor	74	-25.88
2440	7319.95	41.06	avg	hor	54	-12.94
2480	7439.167	40.77	pk	ver	74	-33.23
2480	7439.167	33.51	avg	ver	54	-20.49

ANNEX A Transmitter spurious emissions

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53051
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibraimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 24 °Celsius, Vnom: 6 V DC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; GFSK, 2402 MHz
 Test Date: 2026-03-17

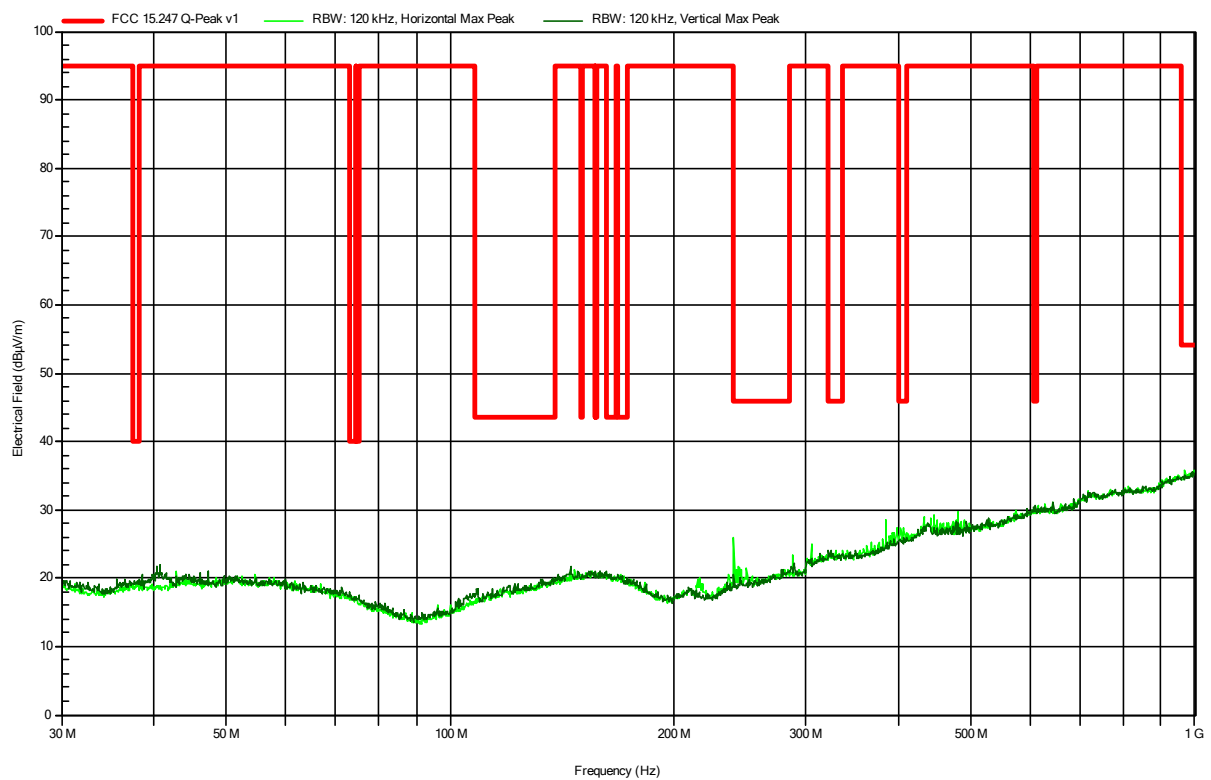
Index 19



Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53051
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 24 °Celsius, Vnom: 6 V DC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; GFSK, 2440 MHz
 Test Date: 2026-03-17

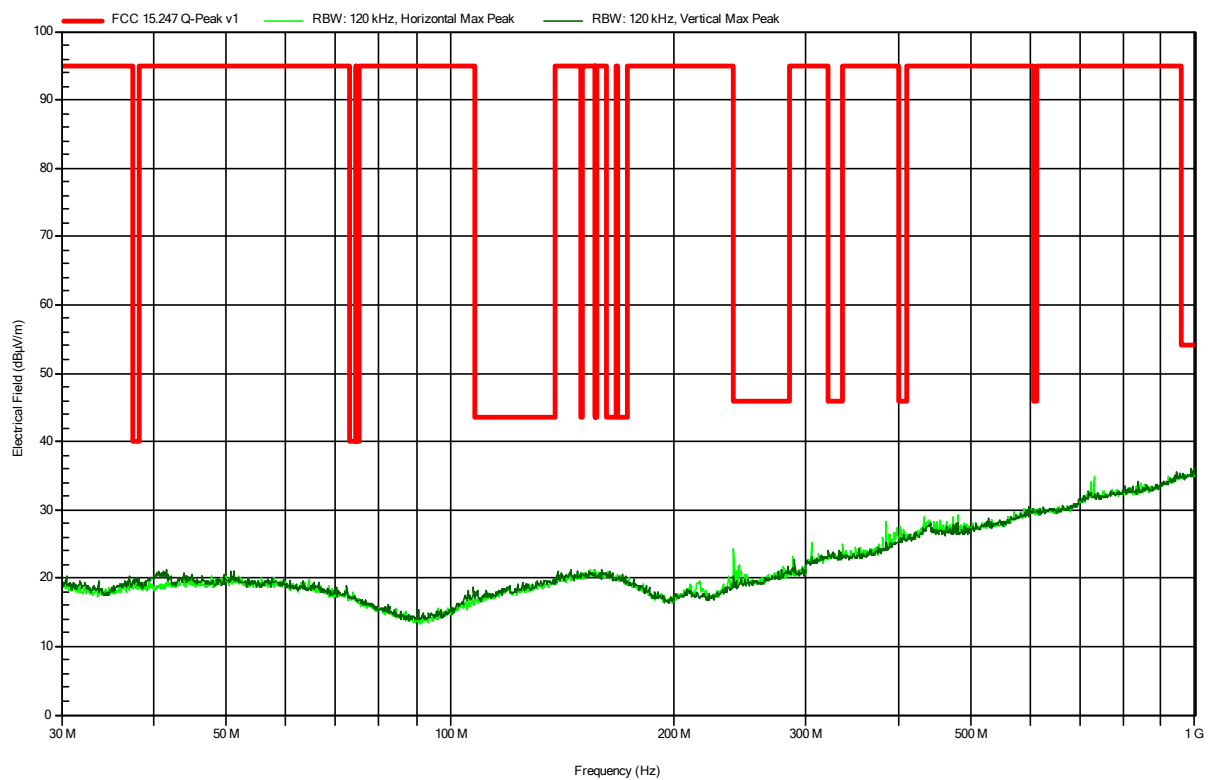
Index 20



Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53051
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 24 °Celsius, Vnom: 6 V DC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; GFSK, 2480 MHz
 Test Date: 2026-03-17

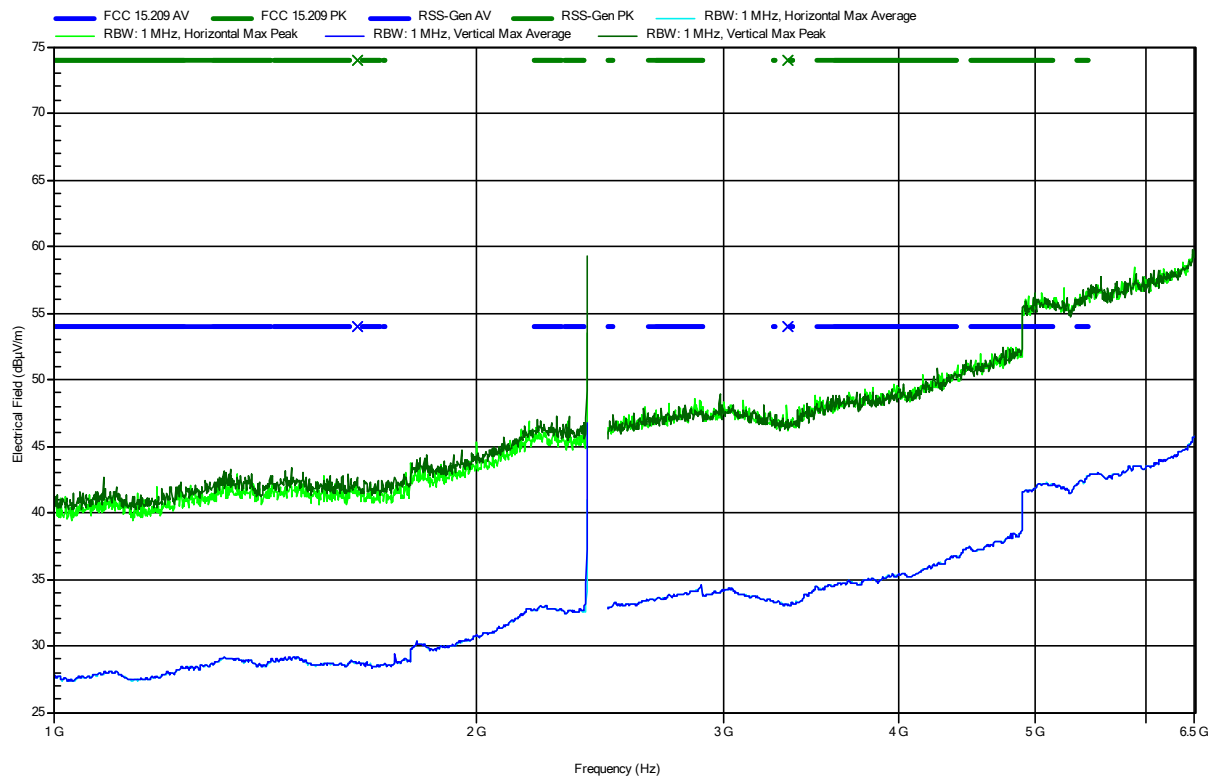
Index 21



Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53051
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibraimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 24 °Celsius, Vnom: 6 V DC
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; GFSK, 2402 MHz
 Test Date: 2026-03-17

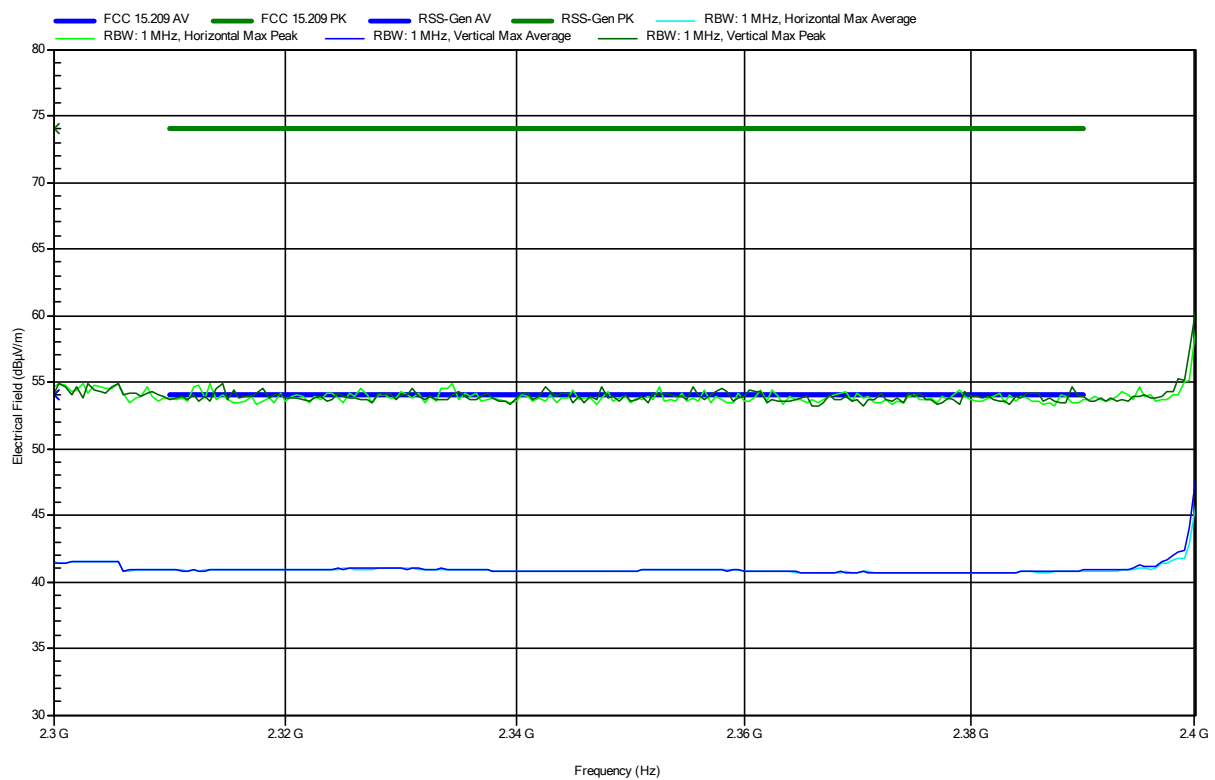
Index 28



Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53051
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 24 °Celsius, Vnom: 6 V DC
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; GFSK, 2402 MHz
 Test Date: 2026-03-17

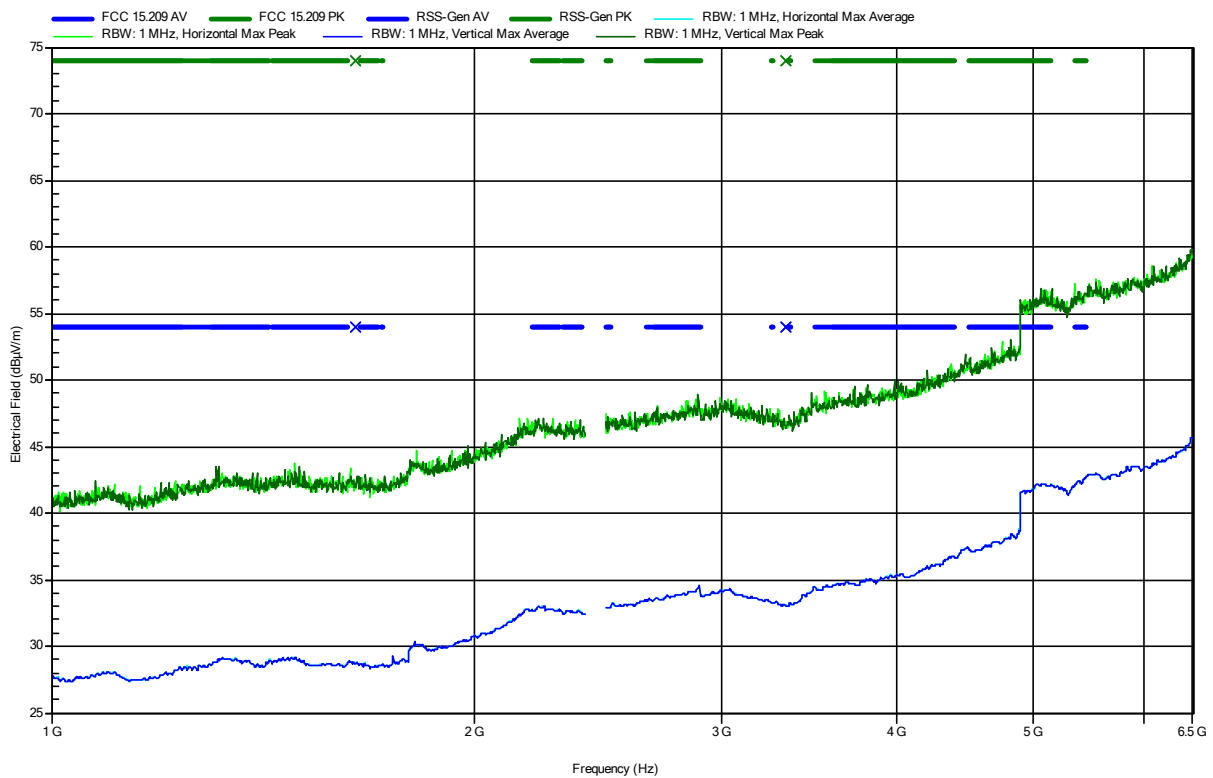
Index 25



Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53051
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 24 °Celsius, Vnom: 6 V DC
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; GFSK, 2440 MHz
 Test Date: 2026-03-17

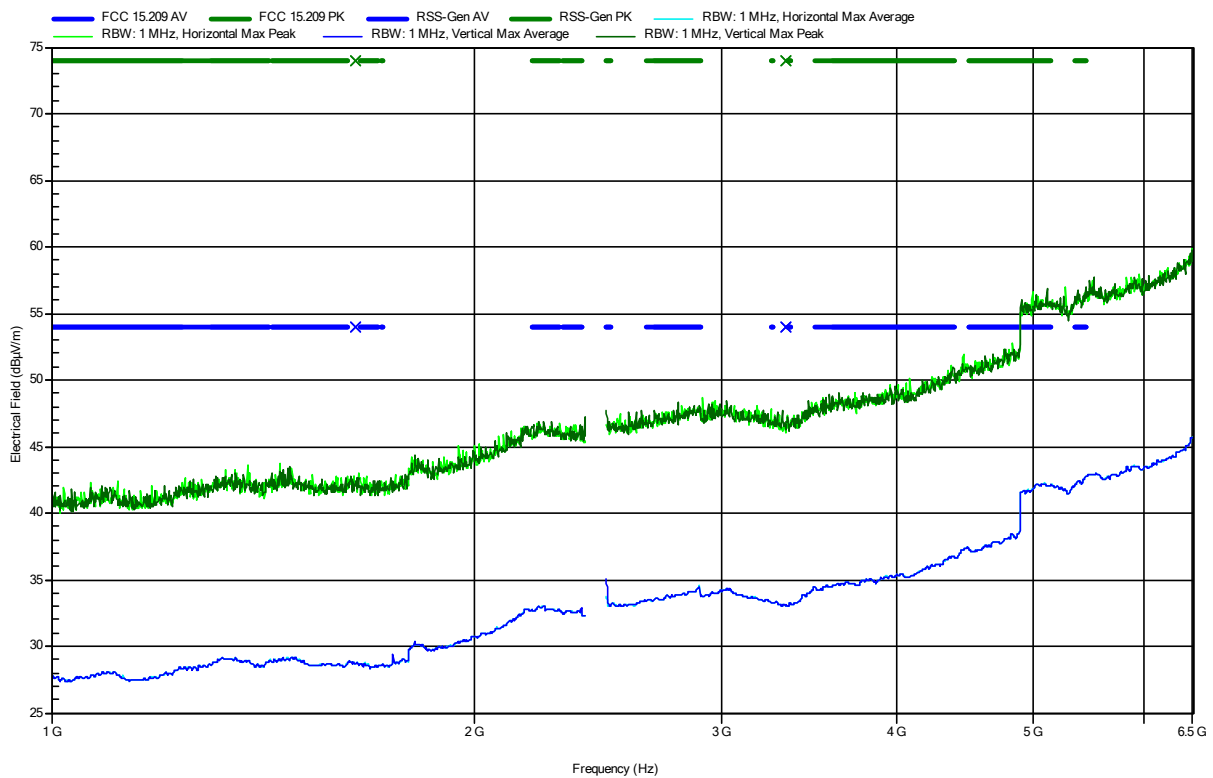
Index 31



Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53051
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 24 °Celsius, Vnom: 6 V DC
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; GFSK, 2480 MHz
 Test Date: 2026-03-17

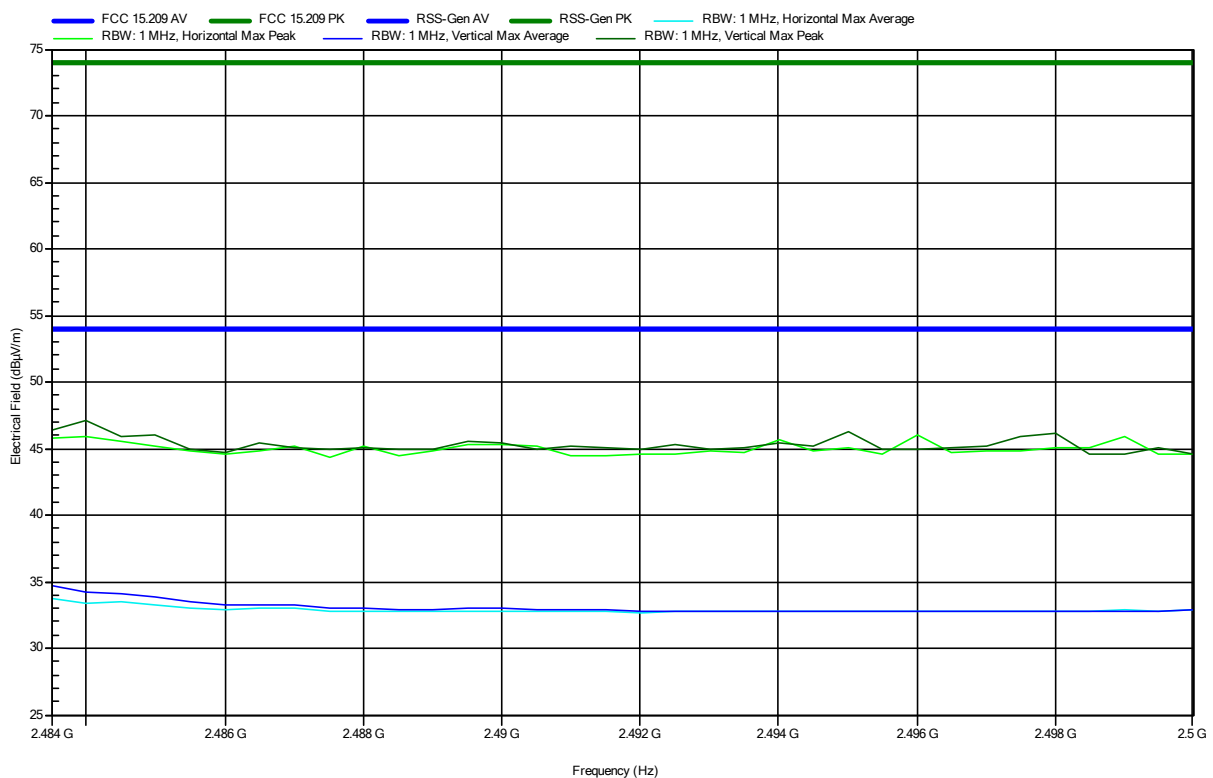
Index 29



Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53051
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 24 °Celsius, Vnom: 6 V DC
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; GFSK, 2480 MHz
 Test Date: 2026-03-17

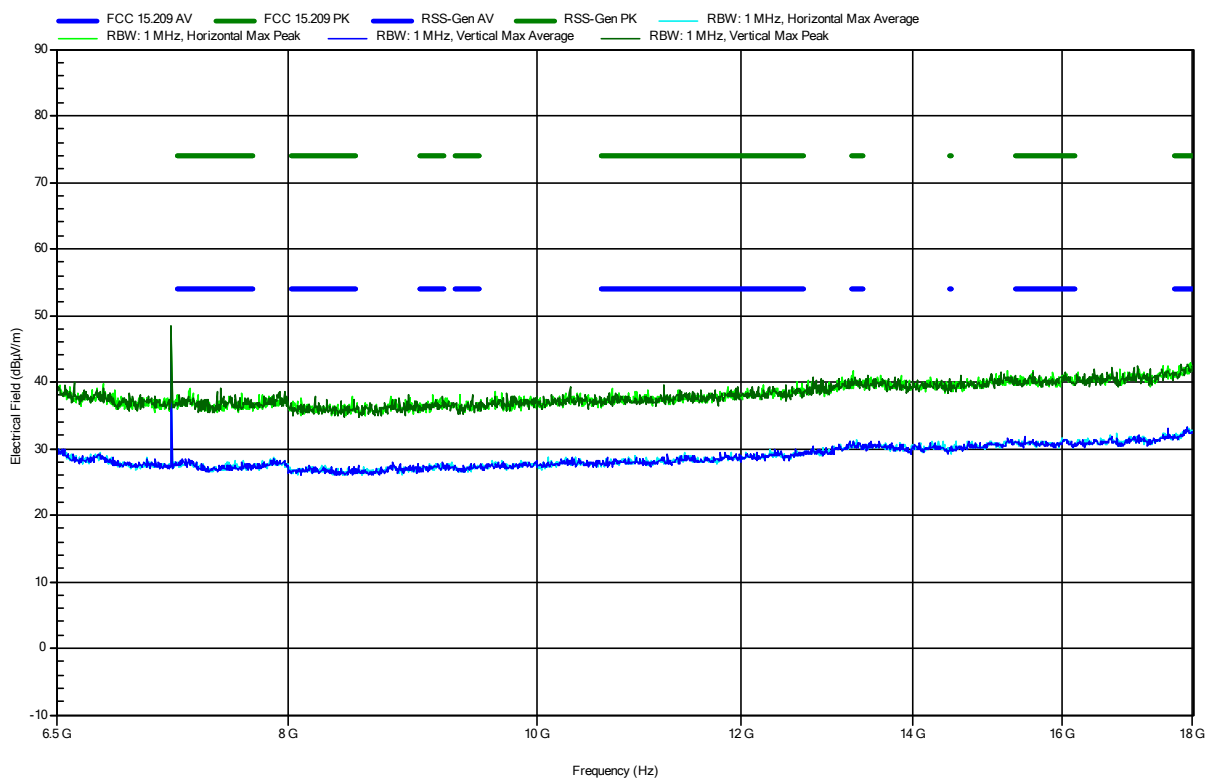
Index 30



Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53051
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 24 °Celsius, Vnom: 6 V DC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; GFSK, 2402 MHz
 Test Date: 2026-03-17

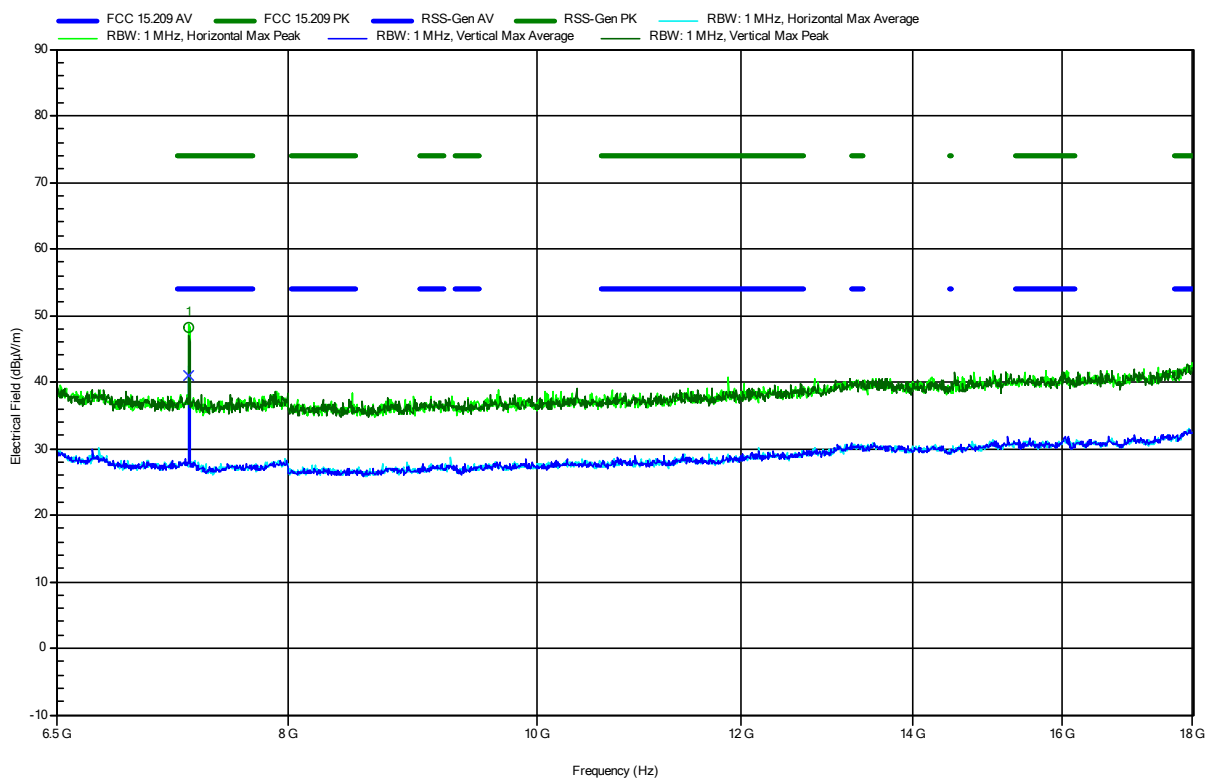
Index 36



Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53051
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 24 °Celsius, Vnom: 6 V DC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; GFSK, 2440 MHz
 Test Date: 2026-03-17

Index 33



Peak Number	Frequency (MHz)	Peak (dBμV/m)	Peak (dBμV/m)	Limit	Peak Difference (dB)	Peak Status	Polarization
1	7319.95	48.12	74		-25.88	Pass	Horizontal

Peak Number	Frequency (MHz)	Average (dBμV/m)	Average (dBμV/m)	Limit	Average Difference (dB)	Average Status	Polarization
1	7319.95	41.06	54		-12.94	Pass	Horizontal

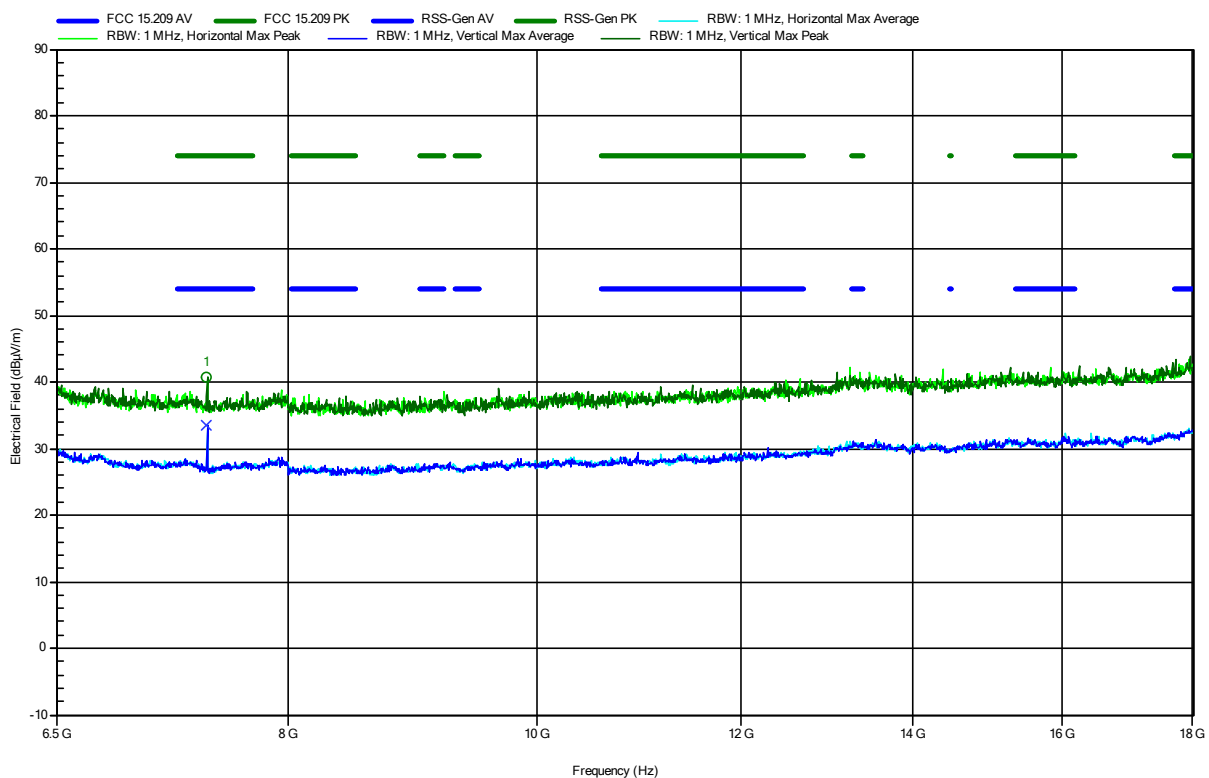
Test Report No.: G0M-2509-3304-TFC247BL01-V01

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

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53051
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 24 °Celsius, Vnom: 6 V DC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; GFSK, 2480 MHz
 Test Date: 2026-03-17

Index 37



Peak Number	Frequency (MHz)	Peak (dBμV/m)	Peak (dBμV/m)	Limit	Peak Difference (dB)	Peak Status	Polarization
1	7439.167	40.77	74		-33.23	Pass	Vertical

Peak Number	Frequency (MHz)	Average (dBμV/m)	Average (dBμV/m)	Limit	Average Difference (dB)	Average Status	Polarization
1	7439.167	33.51	54		-20.49	Pass	Vertical

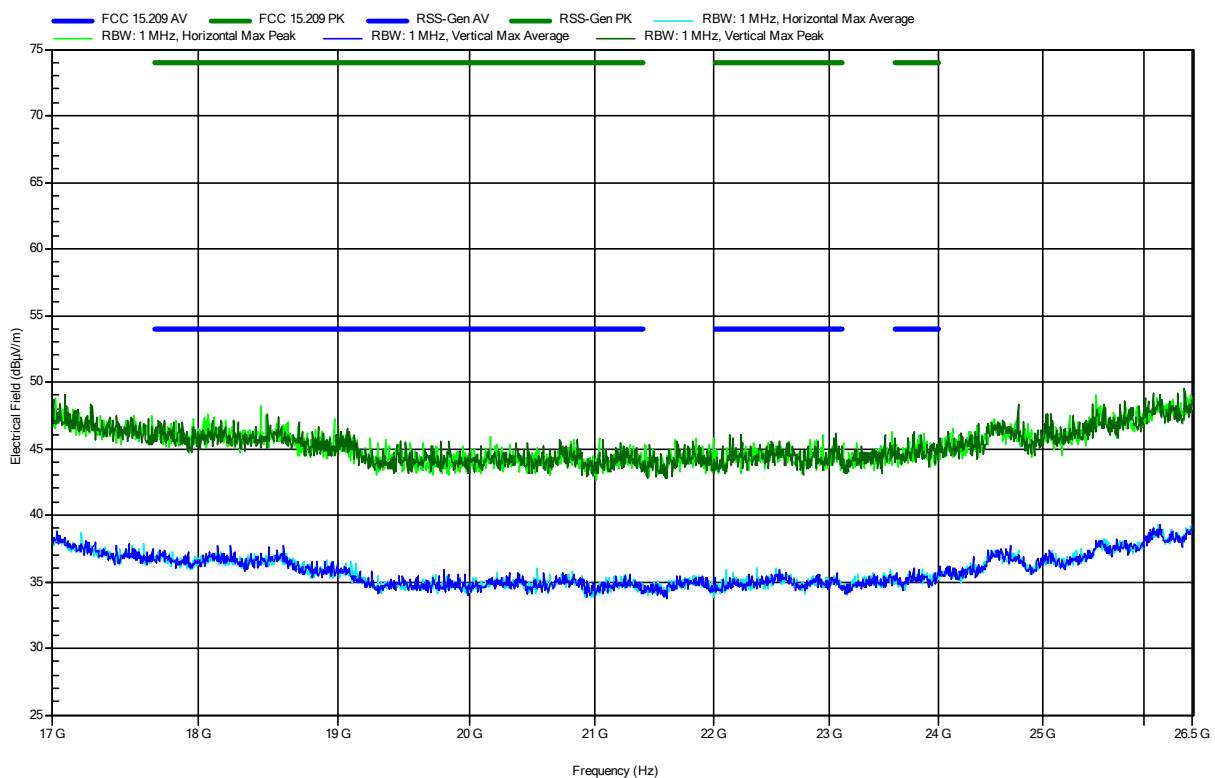
Test Report No.: G0M-2509-3304-TFC247BL01-V01

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

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53051
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 24 °Celsius, Vnom: 6 V DC
 Antenna: Configurable Antenna
 Measurement distance: 3 m
 Mode: Tx; GFSK, 2402 MHz
 Test Date: 2026-03-17

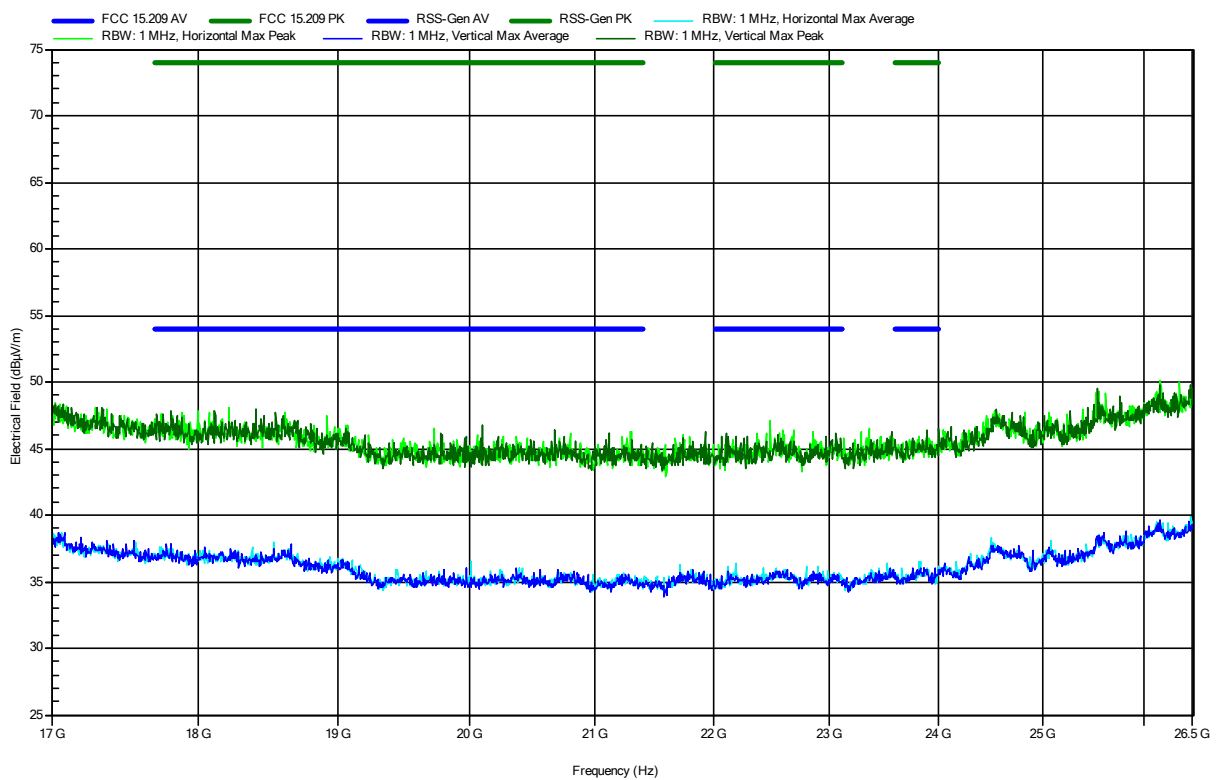
Index 44



Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53051
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 24 °Celsius, Vnom: 6 V DC
 Antenna: Configurable Antenna
 Measurement distance: 3 m
 Mode: Tx; GFSK, 2440 MHz
 Test Date: 2026-03-17

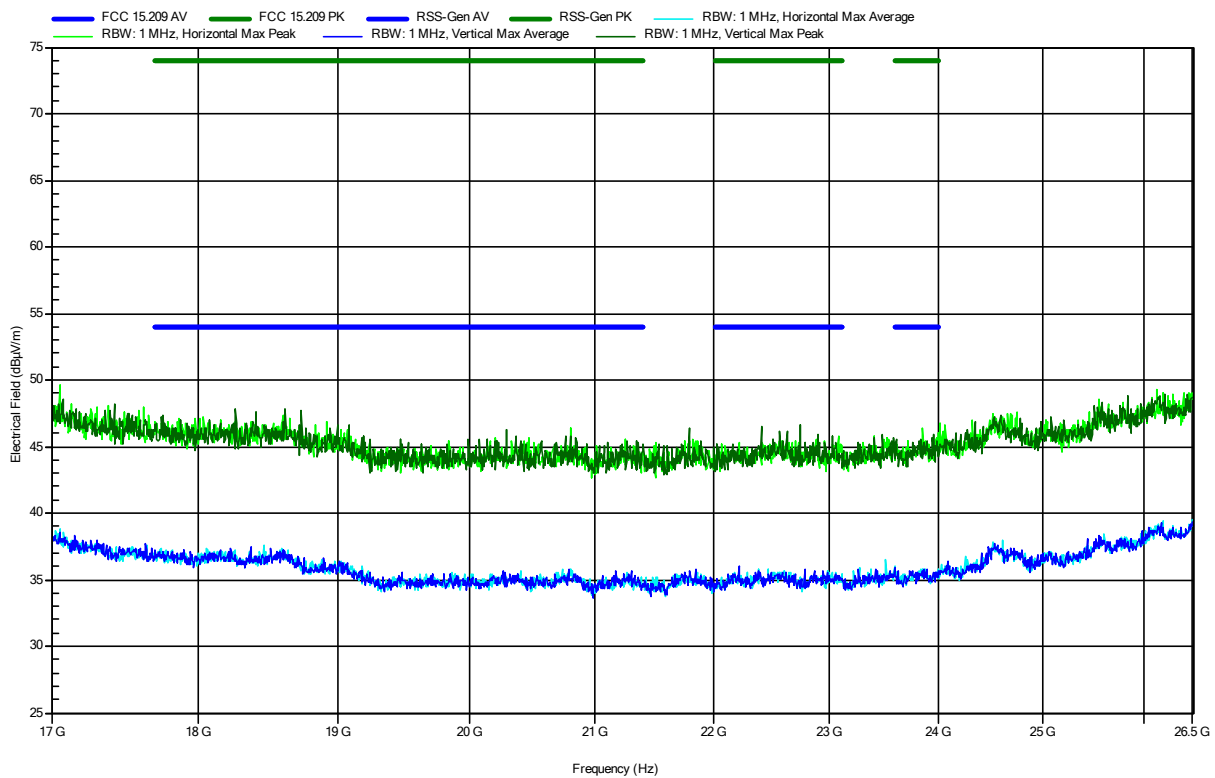
Index 42



Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2509-3304
 Applicant: ASSA ABLOY Sicherheitstechnik GmbH
 Model Description: CLIQ remote programming device
 Model: CLIQ Connect mobile PD
 Test Sample ID: 53051
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 24 °Celsius, Vnom: 6 V DC
 Antenna: Configurable Antenna
 Measurement distance: 3 m
 Mode: Tx; GFSK, 2480 MHz
 Test Date: 2026-03-17

Index 43



=== End of test report ===