

Test Report

HELEM2403000110-4 v1.1



INTENTIONAL RADIATOR TESTS ACCORDING TO FCC PART 15 C AND ISED CANADA REQUIREMENTS

Equipment Under Test: Key Deposit Lock

Trademark: Abloy

Model: CYK/A2

Type: -

Manufacturer / Customer: Abloy Oy
Wahlforssinkatu 20
FI-80100 Joensuu
Finland

FCC Rule Part: §15.247

IC Rule Part: RSS-247, Issue 3, 2023
RSS-Gen, Issue 5 Amendment 2, 2021

KDB: 558074 D01 15.247 Meas Guidance v05r02

Date: 26 May 2025

Issued by: 
Henri Mäki
Testing Engineer

Date: 26 May 2025

Checked by: 
Pekka Kälviäinen
Testing Engineer

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GENERAL REMARKS

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

RELEASE HISTORY

Version	Changes	Issued
1.0	Initial release: The test report is based on test report HELEM2404000110-2 v1.0, only the model name has been changed.	23 April 2025
1.1	Laboratory address corrected on page 7.	26 May 2025

PRODUCT DESCRIPTION

Equipment Under Test

Equipment Under Test:	Key Deposit Lock
Trademark:	Abloy
Model:	CYK/A2
Type:	-
Serial no:	-
FCC ID:	-
IC:	-
Radio module or chip:	Nordic Semiconductor nRF52840-QIAA-F (Bluetooth Low Energy v4.2)

General Description

The equipment under test is a key deposit lock enabling keyless access with smart phone via a Bluetooth Low Energy connection. The lock is designed to perform in harsh conditions. The key deposit is battery-powered with a real-time clock and connectivity. The lock can be supplied with backup power if the battery is flat.

Classification

Fixed device	☒
Mobile Device (Human body distance > 20 cm)	☐
Portable Device (Human body distance < 20 cm)	☐

Samples and Modifications

No.	Name	Description
1	Radiated	Normal sample operated with a test software
2	Conducted	PCB sample with an SMA connector

Ratings and declarations

Operating frequency range:	2402 – 2480 MHz
Nominal channel bandwidth:	1 MHz
Number of channels:	40
Channel separation:	2 MHz
Transmission technique:	DSSS
Modulation:	GFSK
Data rate:	1 Mbps
Antenna type:	Integral inverted F antenna
Antenna gain:	-3.86 dBi
Antenna count:	1
EUT dimensions:	33 x 33 x 78 mm, 0.3 kg
Power requirements:	Battery-operated (lithium battery 3 V, CR15H270)
Operating temperature range:	-25...+65 °C

Ports and Cables

Cable / Port	Description
USB-C	Used to configure the EUT with the peripheral mobile phone. In normal use the port is only used to open the lock in case of emergency.

Peripherals

Peripheral	Description / Usage
Mobile Phone	Configuring the EUT through USB-C port

SUMMARY OF TESTING

Test Specification	Description of Test	Result
§15.203	Antenna Requirement	PASS
§15.207(a) / RSS-Gen 8.8	AC Power-Line Conducted Emissions	N/A
RSS-Gen 6.7	Occupied Bandwidth 99 %	PASS
§15.247(a)(2) / RSS-247 5.2 a)	6 dB Bandwidth	PASS
§15.247(b)(3) / RSS-247 5.4 d)	Maximum Peak Conducted Output Power	PASS
§15.247(d) / RSS-247 5.5	Unwanted Emissions (conducted)	PASS
§15.247(d) / RSS-247 5.5	Unwanted Emissions (radiated)	PASS
§15.247(e) / RSS-247 5.2 b)	Power Spectral Density	PASS

The decision rule applied for the tests results stated in this test report is according to the requirements of section 1.4 of ANSI C63.10-2020.

EUT Test Conditions during Testing

The EUT was in continuous transmit mode during all the tests. The EUT was configured into the wanted channel using software provided by the manufacturer.

Conducted RF tests were performed with an automated Rohde & Schwarz TS8997 measurement system. The EUT was connected to the measurement system with a coaxial cable. The EUT was powered with a DC power supply and configured with the peripheral mobile phone.

During radiated tests the EUT was powered with a battery. The peripheral mobile phone was used to configure the EUT but was removed during testing.

Table 1: Test frequencies and settings

Channel	Frequency [MHz]	Data rate	TX power	Duty cycle
37	2402	1 Mbps	8 dBm	100 %
17	2440			
39	2480			

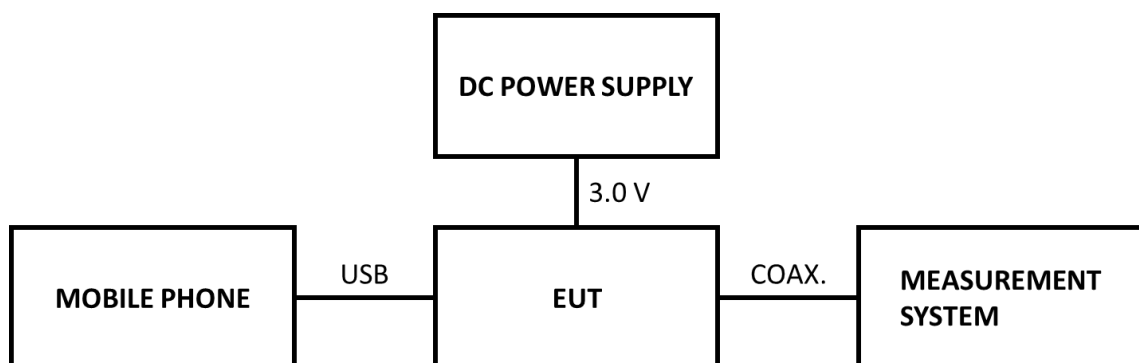


Figure 1: Test setup block diagram (conducted tests)



Figure 2: Test setup block diagram (radiated tests)

Test Facility

Testing Laboratory / address: FCC designation number: FI0002 ISED CAB identifier: T004	SGS Fimko Ltd Karakaarenkuja 4 FI-02610, ESPOO FINLAND
Test Site:	☐ K10LAB, ISED Canada registration number: 8708A-1 ☒ K5LAB, ISED Canada registration number: 8708A-2 ☐ T10LAB

TEST RESULTS

Antenna Requirement

Standard: FCC Rule §15.203
Tested by: HEM
Date: 23 September 2024

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Specification	Requirement (at least one of the following shall be applied)	Conclusion
§15.203	1. Permanently attached antenna 2. Unique coupling to the intentional radiator 3. Professionally installed radio. The installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.	PASS
Note	Option 1 is used	

Occupied Bandwidth 99 %

Standard: RSS-Gen Issue 5
Tested by: HEM
Date: 30 September 2024
Temperature: 22 °C
Humidity: 31 %RH

Test result: **PASS**

RSS-Gen clause 6.7

The occupied bandwidth is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained.

Test results

Table 2: Test results for Occupied Bandwidth 99 %

Frequency [MHz]	OBW 99 % [MHz]	Limit [MHz]	Result
2402	1.050000	-	PASS
2440	1.065000		PASS
2480	1.070000		PASS

The conducted measurement was performed with a spectrum analyzer using the following settings:

Setting	Value
Span	2 MHz
RBW	10 kHz
VBW	30 kHz
Sweep Points	400
Sweep Time	189.648 µs
Detector	MaxPeak
Trace Mode	Max Hold
Sweep Type	FFT

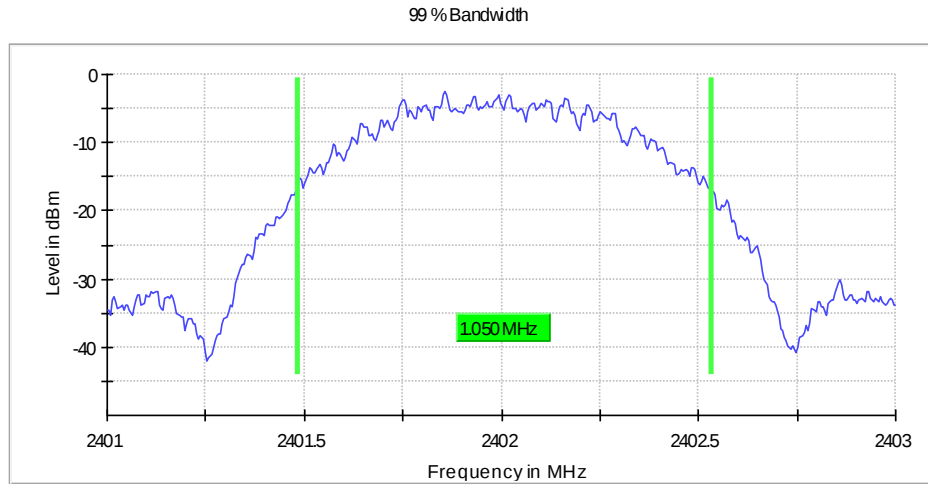


Figure 3: Occupied Bandwidth 99 % (bottom channel)

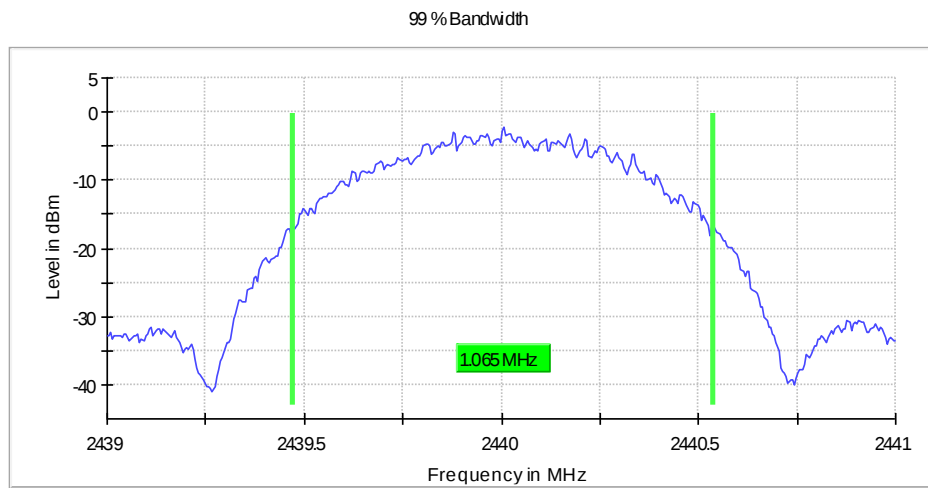


Figure 4: Occupied Bandwidth 99 % (middle channel)

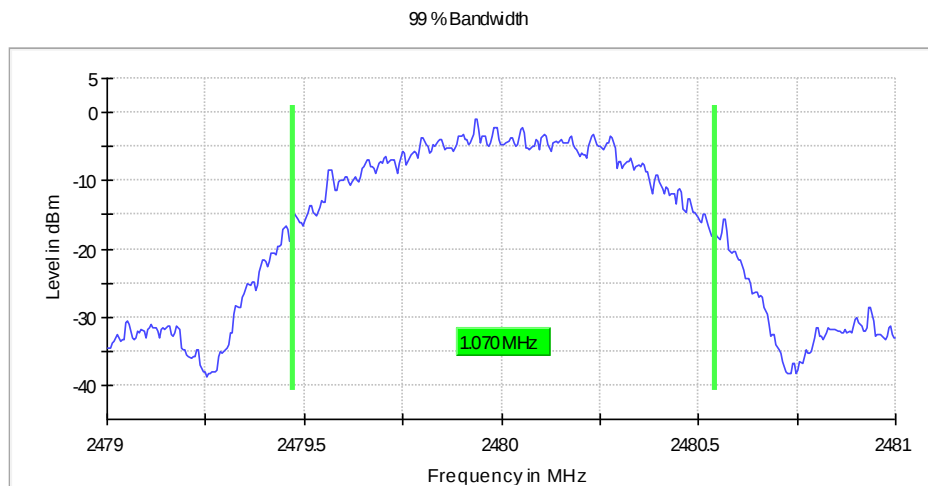


Figure 5: Occupied Bandwidth 99 % (top channel)

6 dB Bandwidth

Standard: ANSI C63.10-2020
Tested by: HEM
Date: 30 September 2024
Temperature: 22 °C
Humidity: 31 %RH

Test result: **PASS**

FCC §15.247(a)(2)
RSS-247 clause 5.2 a)

The 6 dB bandwidth is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated 6 dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

The minimum 6 dB bandwidth shall be 500 kHz.

Test results

Table 3: Test results for 6 dB Bandwidth

Frequency [MHz]	6 dB BW [kHz]	Limit [kHz]	Result
2402	752.476	≥ 500	PASS
2440	792.080		PASS
2480	732.674		PASS

The conducted measurement was performed with a spectrum analyzer using the following settings:

Setting	Value
Span	2 MHz
RBW	100 kHz
VBW	300 kHz
Sweep Points	101
Sweep Time	18.938 μs
Detector	MaxPeak
Trace Mode	Max Hold
Sweep Type	FFT

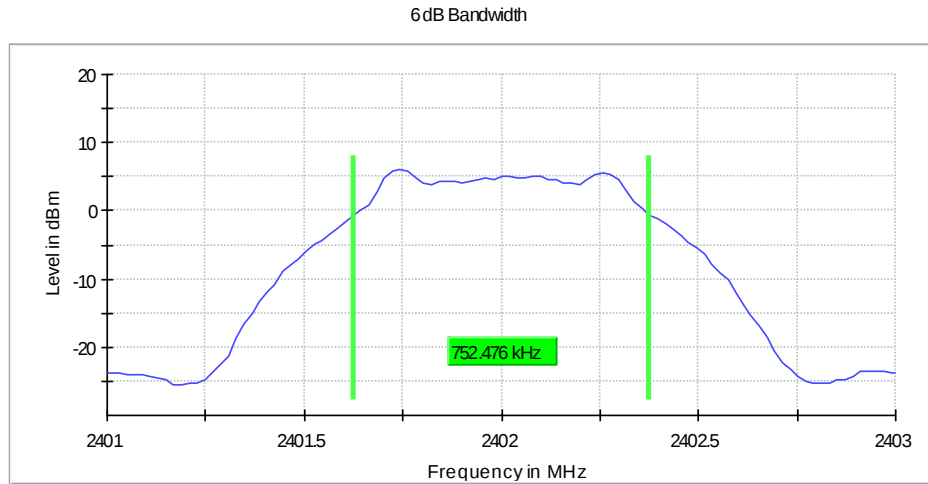


Figure 6: 6 dB Bandwidth (bottom channel)

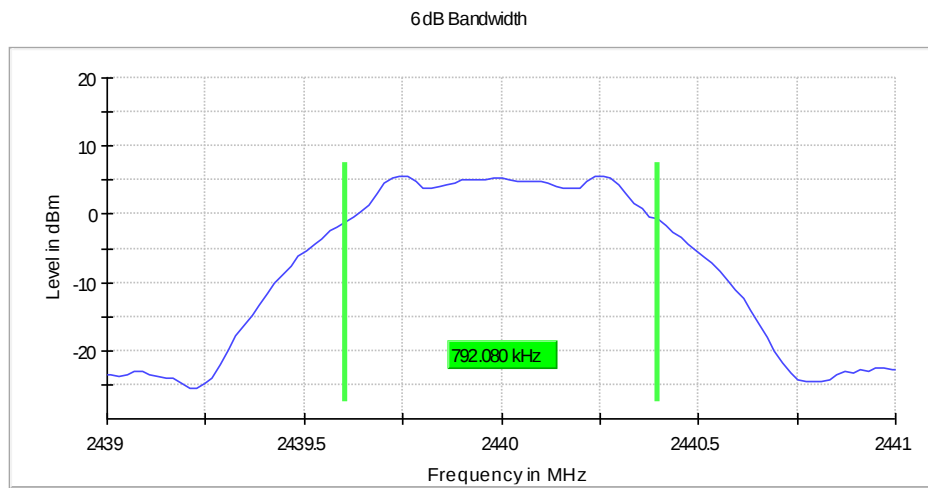


Figure 7: 6 dB Bandwidth (middle channel)

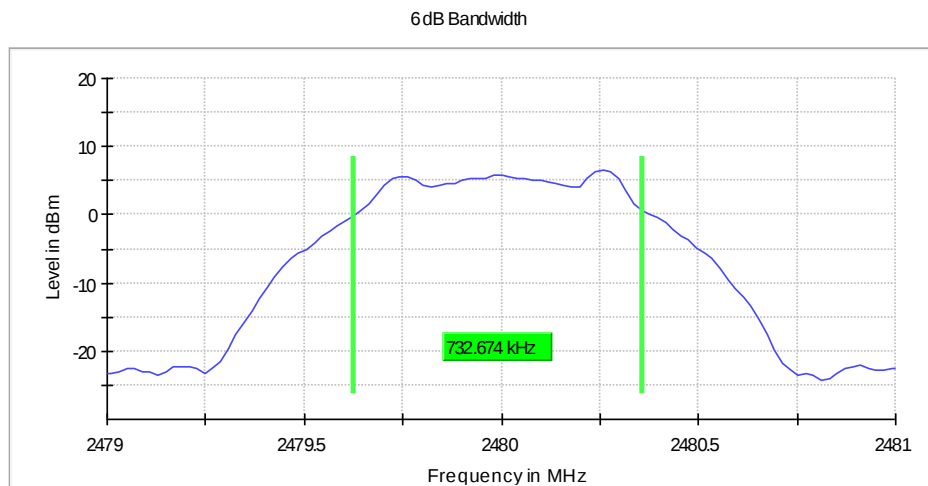


Figure 8: 6 dB Bandwidth (top channel)

Maximum Peak Conducted Output Power

Standard: ANSI C63.10-2020
Tested by: HEM
Date: 30 September 2024
Temperature: 22 °C
Humidity: 31 %RH
Measurement uncertainty: $\pm 2.87\text{dB}$, level of confidence 95 % ($k = 2$)

Test result: **PASS**

FCC §15.247(b)(3)
RSS-247 clause 5.4 d)

For systems using digital modulation in the 2400-2483.5 MHz band the maximum peak conducted output power of the intentional radiated shall not exceed 1 W (30 dBm). The conducted output power limit is based on the use of antennas with directional gains that do not exceed 6 dBi.

Test results

Table 4: Test results for Maximum Peak Conducted Output Power

Frequency [MHz]	Output Power [dBm]	Limit [dBm]	Result
2402	6.4	30	PASS
2440	6.5		PASS
2480	6.8		PASS

The conducted measurement was performed with a spectrum analyzer using the following settings:

Setting	Value
Span	3 MHz
RBW	1 MHz
VBW	3 MHz
Sweep Points	101
Sweep Time	1.907 μs
Detector	MaxPeak
Trace Mode	Max Hold
Sweep Type	FFT

Maximum Peak Conducted Output Power

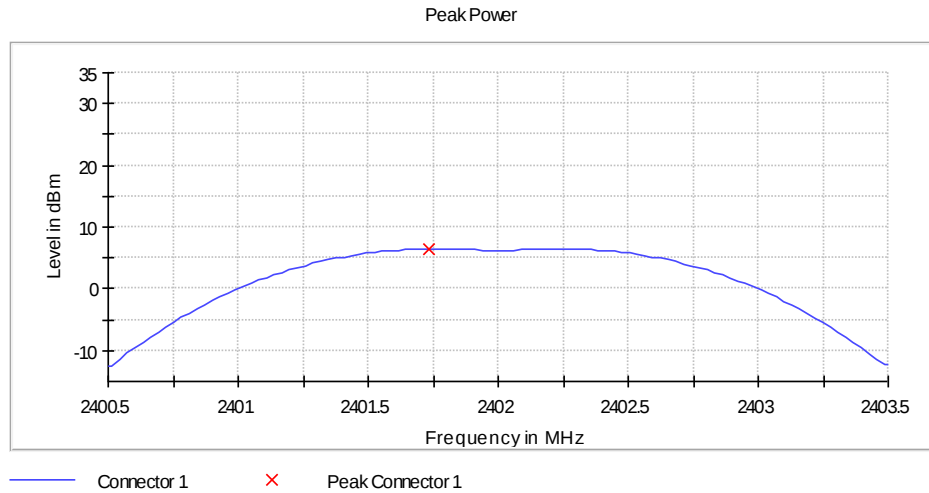


Figure 9: Maximum Peak Conducted Output Power (bottom channel)

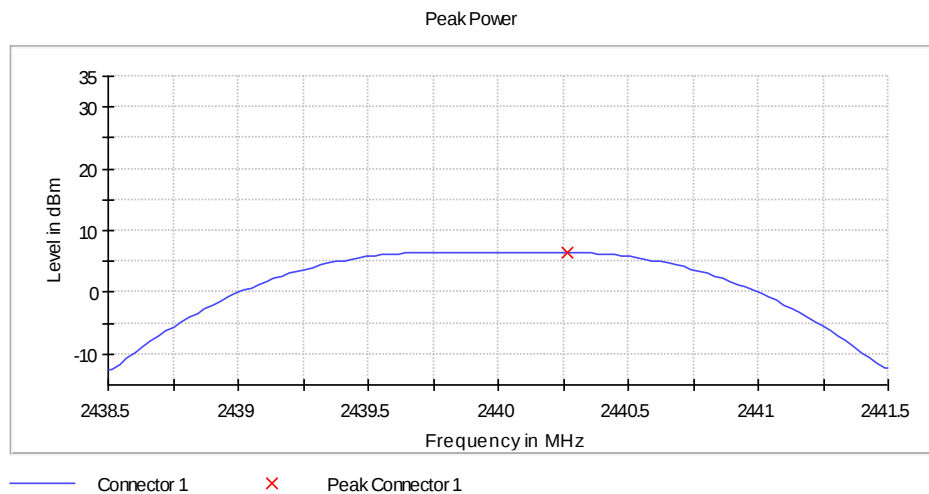


Figure 10: Maximum Peak Conducted Output Power (middle channel)

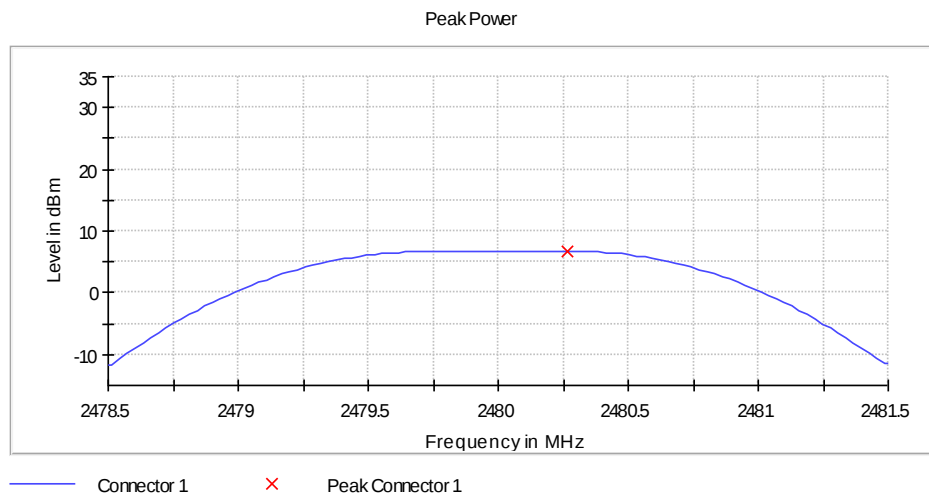


Figure 11: Maximum Peak Conducted Output Power (top channel)

Unwanted Emissions (conducted)

Unwanted Emissions (conducted)

Standard: ANSI C63.10-2020
Tested by: HEM
Date: 30 September 2024
Temperature: 22 °C
Humidity: 31 %RH
Measurement uncertainty: ± 2.87 dB, level of confidence 95 % (k = 2)

Test result: **PASS**

FCC §15.247(d)
RSS-247 clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

Unwanted Emissions (conducted)

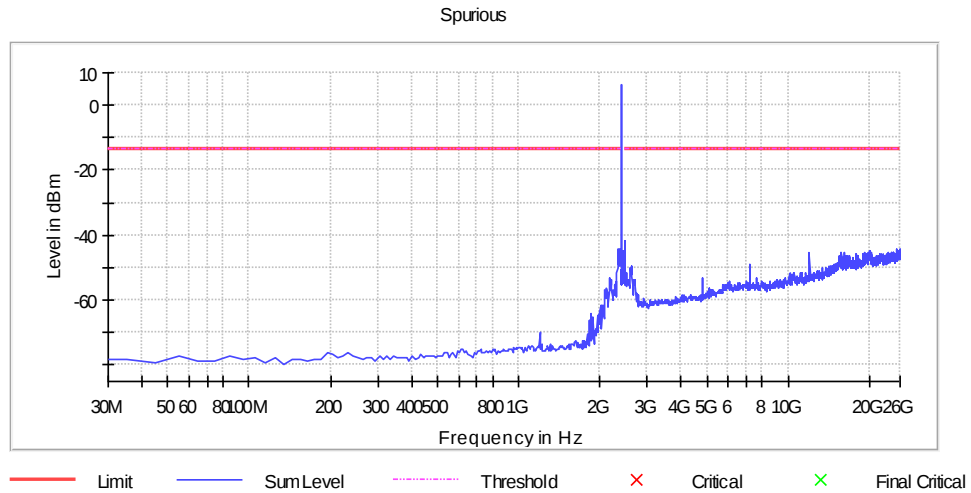


Figure 12: Unwanted emissions, conducted (bottom channel)

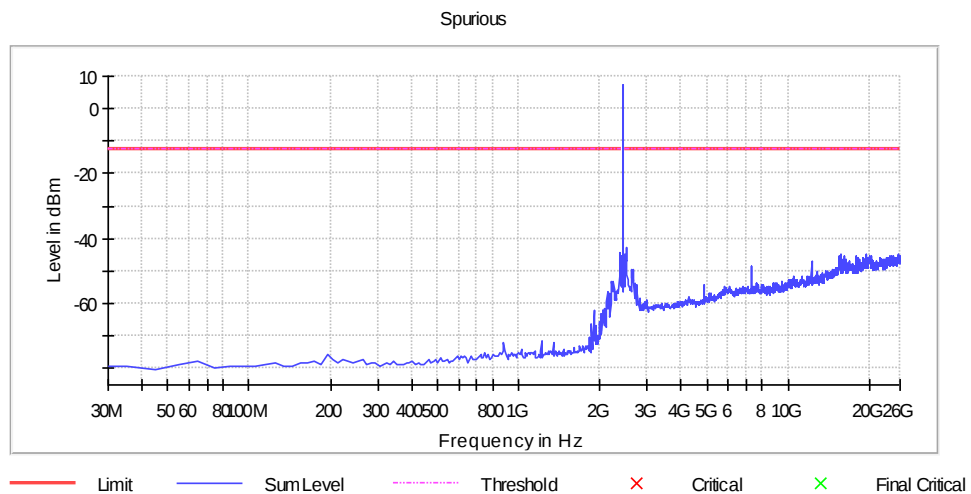


Figure 13: Unwanted emissions, conducted (middle channel)

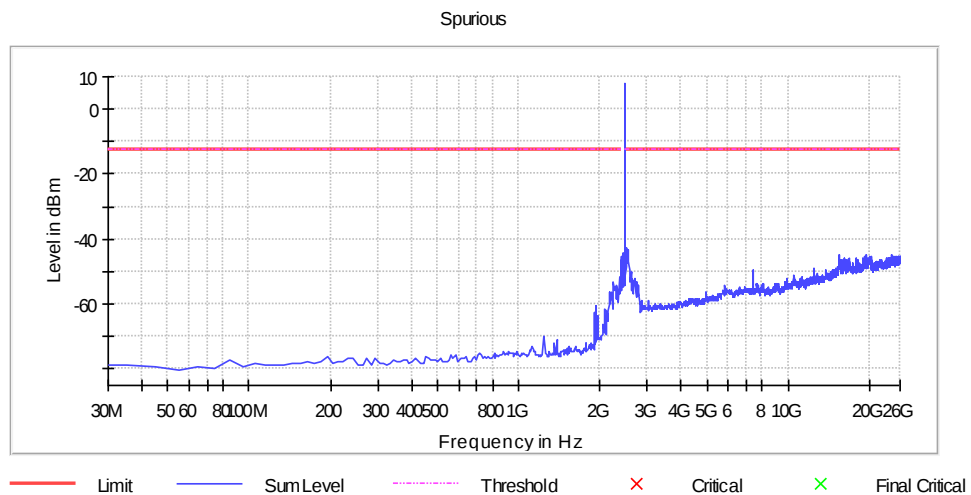


Figure 14: Unwanted emissions, conducted (top channel)

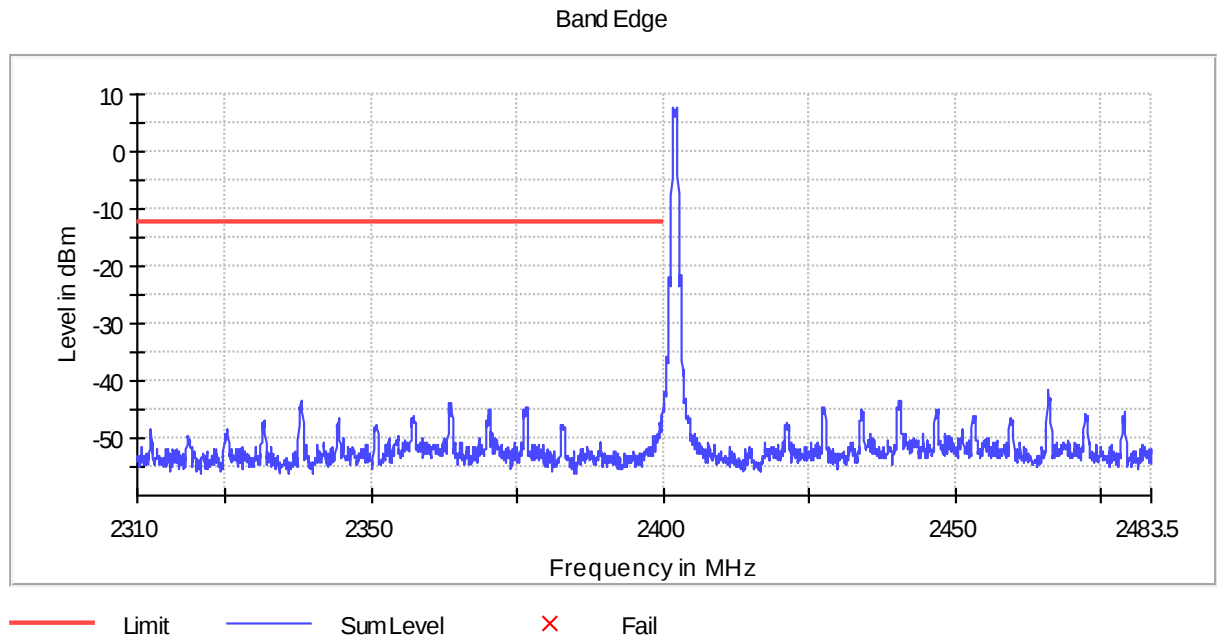


Figure 15: Lower band-edge, conducted (bottom channel)

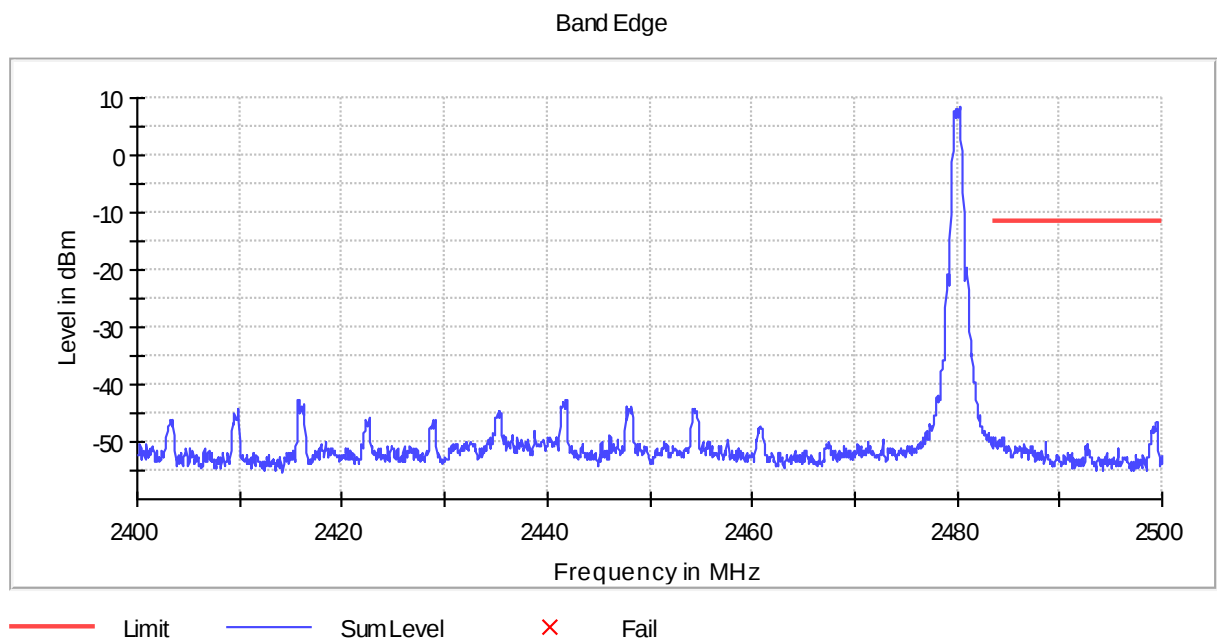


Figure 16: Upper band-edge, conducted (top channel)

Unwanted Emissions (radiated)

Standard:	ANSI C63.10-2020	
Tested by:	PKA, HEM	PKA
Date:	23 September 2024	24 September 2024
Temperature:	23 °C	23 °C
Humidity:	40 %RH	51 %RH
Measurement uncertainty:	± 4.51 dB, level of confidence 95 % (k = 2)	

Test result: **PASS**

FCC §15.247(d)
RSS-247 clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. Attenuation below the general limits specified in §15.209(a) and RSS-Gen clause 8.9 is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) and RSS-Gen clause 8.10, must also comply with the radiated emission limits specified in §15.209(a) and RSS-Gen clause 8.9.

Radiated tests are performed in a semi-anechoic chamber with a measurement distance of 3 meters. During measurements above 1 GHz absorbers are placed on the floor. The results below 30 MHz are extrapolated to 30 m or 300 m distance by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

The correction factor in the final result table contains the sum of the transducers (antenna + amplifier + cables). The result value is the measured value corrected with the correction factor.

Unwanted Emissions (radiated)

Test results

Table 5: Unwanted radiated emissions (quasi-peak detector)

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Channel
1.159750	-11.89	26.34	38.23	15 x 1000.0	9.000	copl. *	V	49.0	-20.5	Top
1.246000	-9.83	25.72	35.55	15 x 1000.0	9.000	copl. *	V	155.0	-20.5	Bottom
1.251000	-12.36	25.68	38.04	15 x 1000.0	9.000	copl. *	V	278.0	-20.5	Middle
30.500000	14.35	40.00	25.65	15 x 1000.0	120.000	344.0	V	339.0	16.8	Bottom
36.235000	13.14	40.00	26.86	15 x 1000.0	120.000	209.0	H	140.0	16.7	Top
46.515000	13.55	40.00	26.45	15 x 1000.0	120.000	400.0	V	244.0	17.8	Middle
913.935000	22.26	46.00	23.74	15 x 1000.0	120.000	400.0	V	4.0	31.6	Middle
919.165000	22.53	46.00	23.47	15 x 1000.0	120.000	119.0	H	60.0	31.8	Top
936.345000	22.71	46.00	23.29	15 x 1000.0	120.000	100.0	V	128.0	32.0	Bottom

* copl. = measurement loop antenna in coplanar orientation

Table 6: Unwanted radiated emissions (average detector)

Frequency (MHz)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Channel
4803.800000	33.80	54.00	20.20	15 x 1000.0	1000.000	184.0	V	171.0	8.6	Bottom
4880.000000	39.35	54.00	14.65	15 x 1000.0	1000.000	203.0	V	178.0	8.7	Middle
4960.100000	44.30	54.00	9.70	15 x 1000.0	1000.000	183.0	V	172.0	8.5	Top
7320.700000	38.31	54.00	15.69	15 x 1000.0	1000.000	178.0	V	187.0	11.5	Middle
7440.700000	36.57	54.00	17.43	15 x 1000.0	1000.000	144.0	V	196.0	11.3	Top
12011.100000	39.86	54.00	14.14	15 x 1000.0	1000.000	216.0	V	181.0	18.4	Bottom
12198.900000	39.42	54.00	14.58	15 x 1000.0	1000.000	100.0	H	106.0	18.1	Middle
19882.500000	27.90	54.00	26.10	15 x 1000.0	1000.000	100.0	H	1.0	-3.3	Bottom
21928.500000	28.53	54.00	25.47	15 x 1000.0	1000.000	133.0	V	65.0	-0.9	Middle
26455.350000	29.52	54.00	24.48	15 x 1000.0	1000.000	107.0	H	0.0	0.1	Top

Table 7: Unwanted radiated emissions (peak detector)

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Channel
2400.000000	49.64	74.00	24.36	15 x 1000.0	1000.000	206.0	H	306.0	14.3	Bottom
2402.200000	82.62	---	---	15 x 1000.0	1000.000	165.0	H	72.0	14.2	Bottom
2439.750000	84.18	---	---	15 x 1000.0	1000.000	184.0	H	69.0	14.4	Middle
2480.250000	84.03	---	---	15 x 1000.0	1000.000	157.0	H	68.0	14.4	Top
2483.500000	50.08	74.00	23.92	15 x 1000.0	1000.000	100.0	V	345.0	14.5	Top
7206.500000	48.31	74.00	25.69	15 x 1000.0	1000.000	171.0	V	167.0	11.6	Bottom

Unwanted Emissions (radiated)

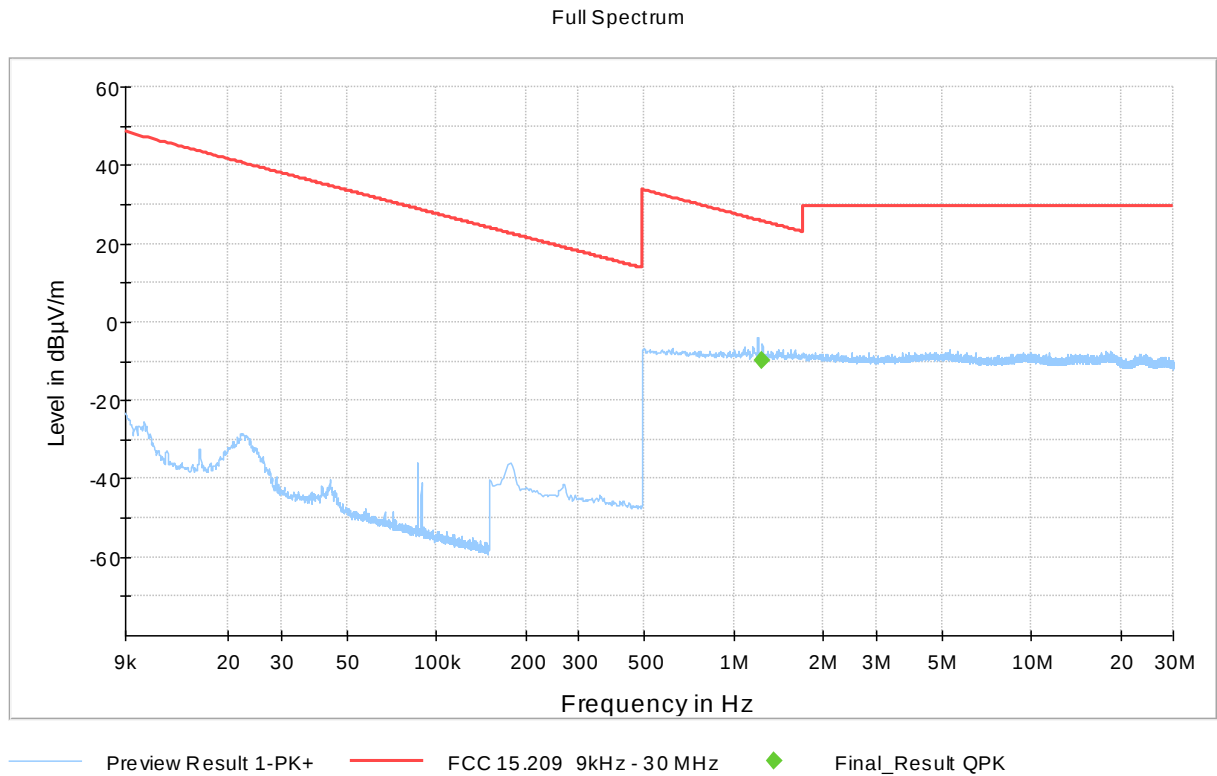


Figure 17: Unwanted radiated emissions 9 kHz – 30 MHz (bottom channel)

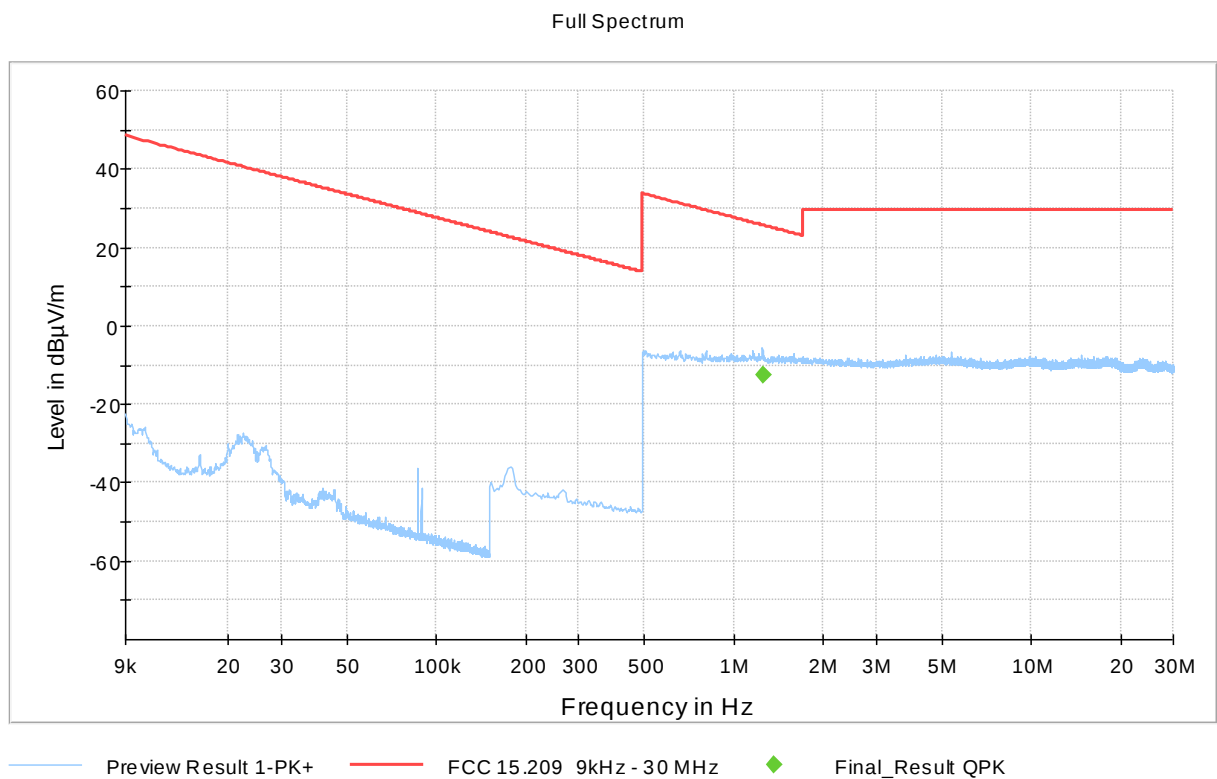


Figure 18: Unwanted radiated emissions 9 kHz – 30 MHz (middle channel)

Unwanted Emissions (radiated)

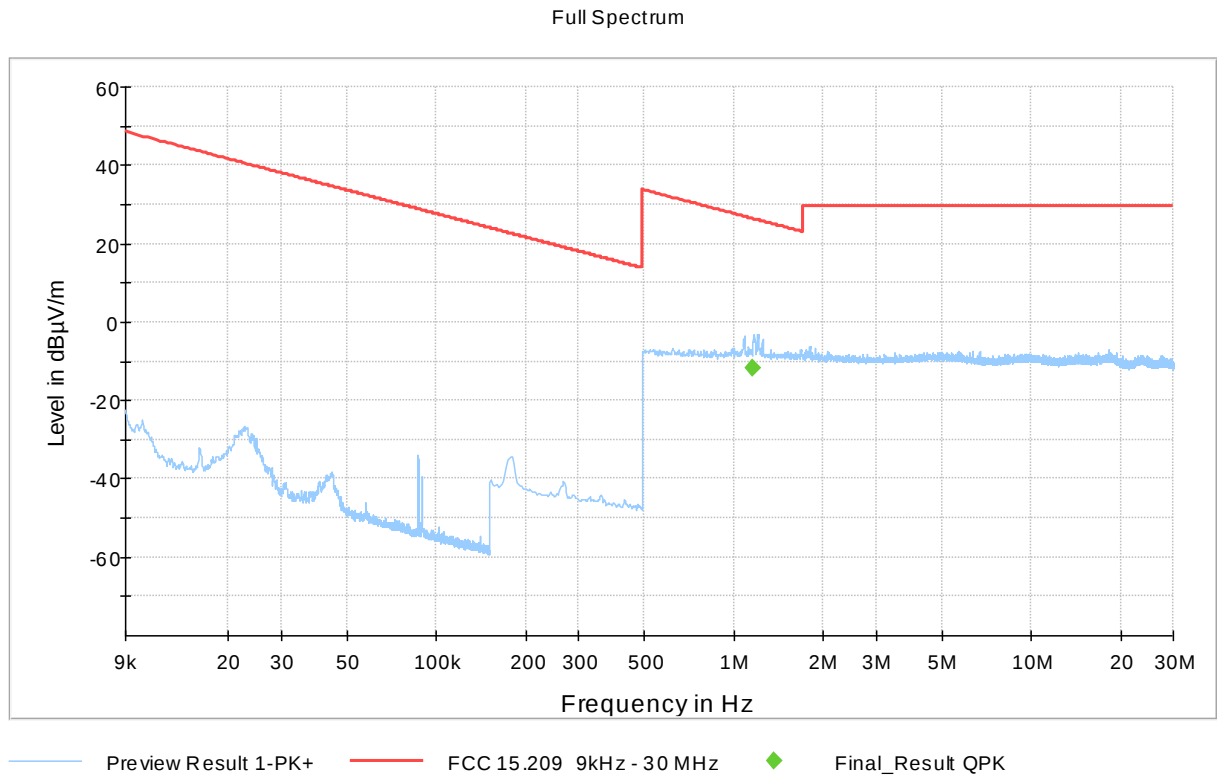


Figure 19: Unwanted radiated emissions 9 kHz – 30 MHz (top channel)

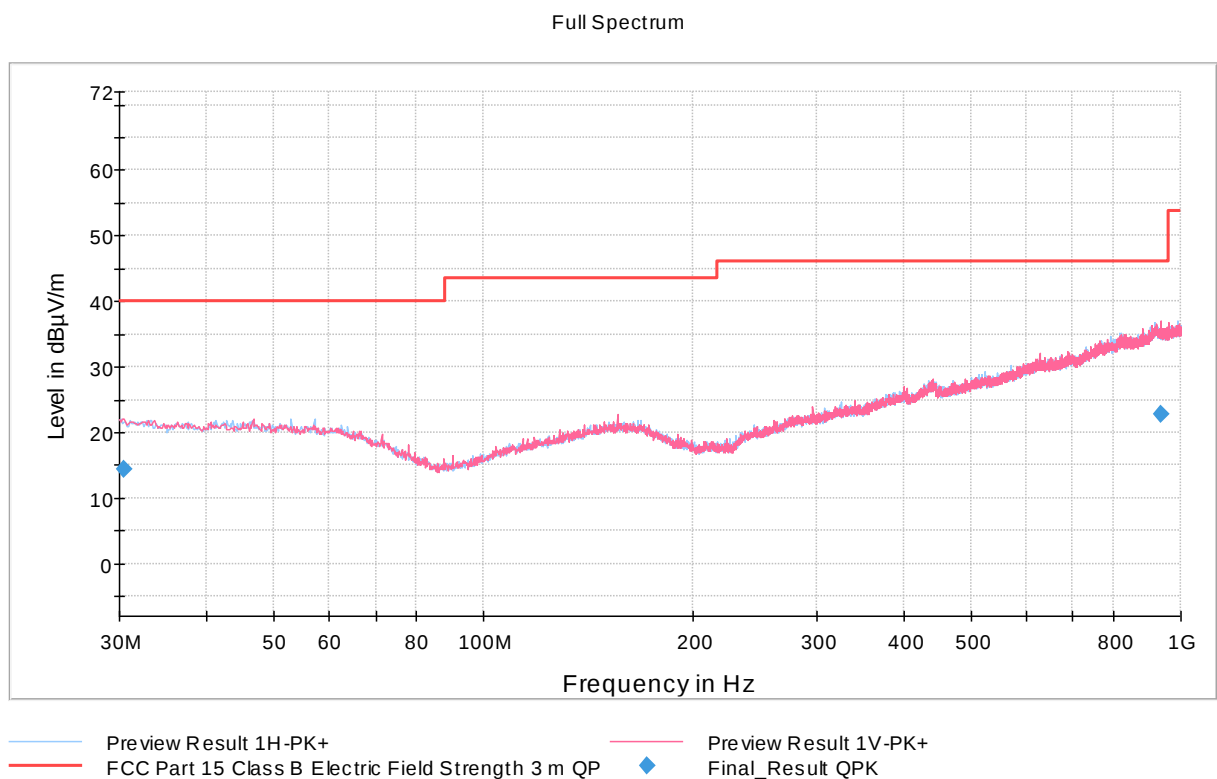


Figure 20: Unwanted radiated emissions 30 – 1000 MHz (bottom channel)

Unwanted Emissions (radiated)

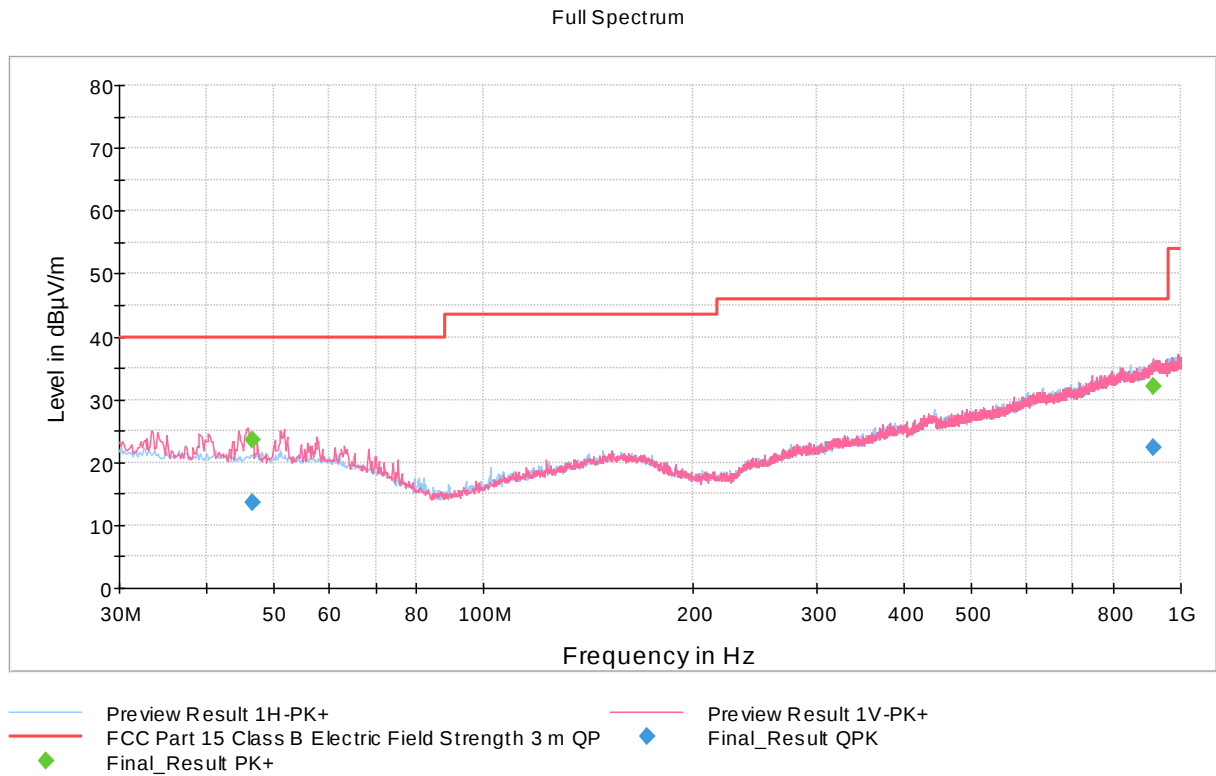


Figure 21: Unwanted radiated emissions 30 – 1000 MHz (middle channel)

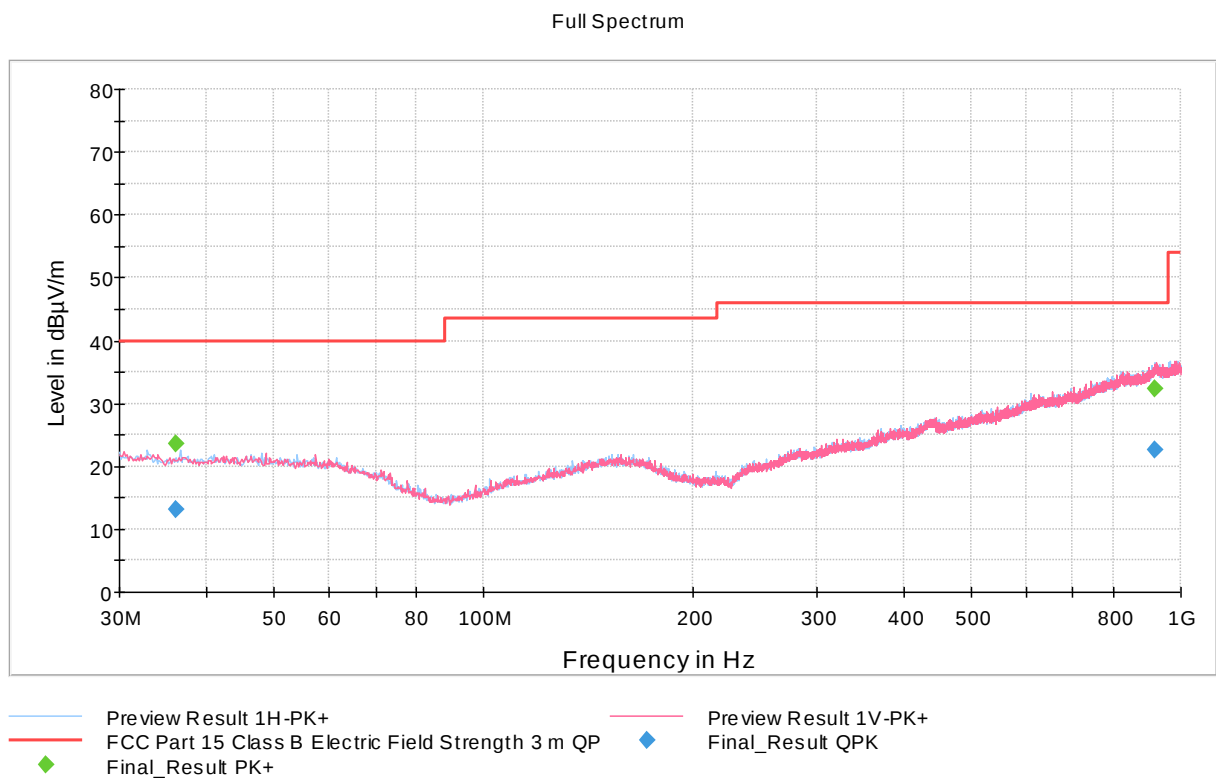


Figure 22: Unwanted radiated emissions 30 – 1000 MHz (top channel)

Unwanted Emissions (radiated)

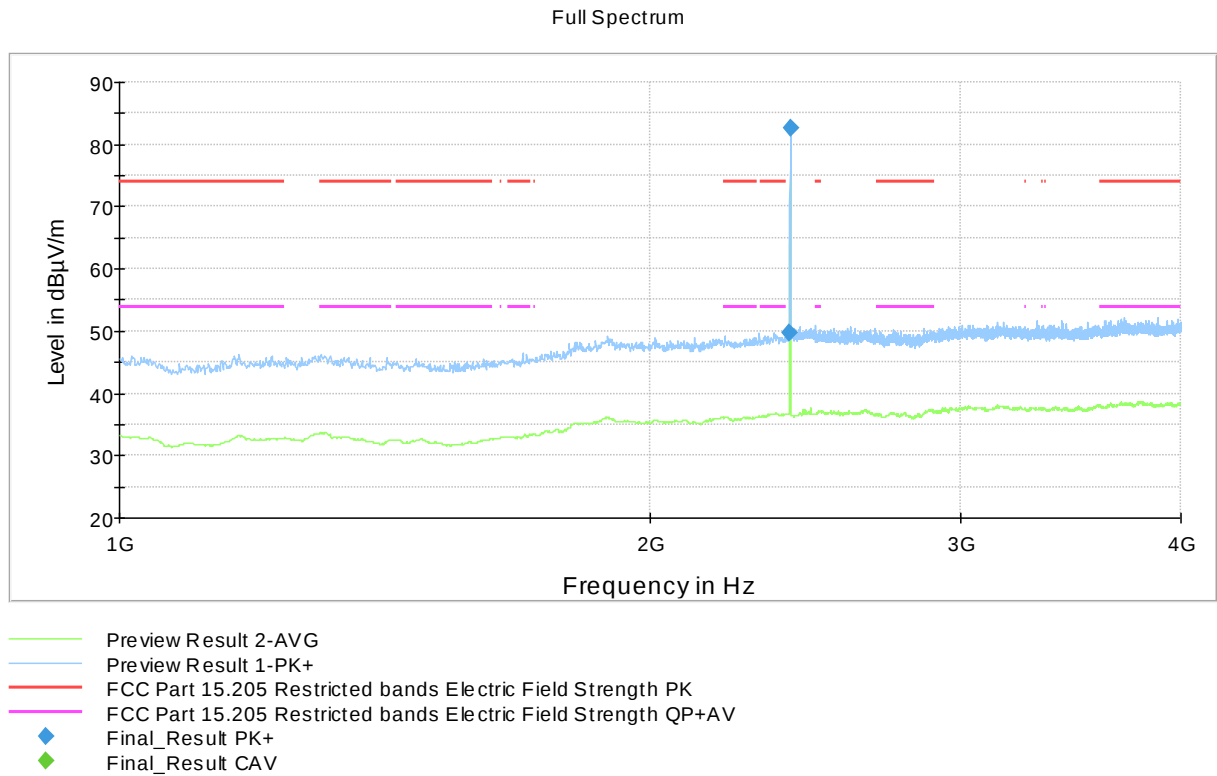


Figure 23: Unwanted radiated emissions 1 – 4 GHz (bottom channel)

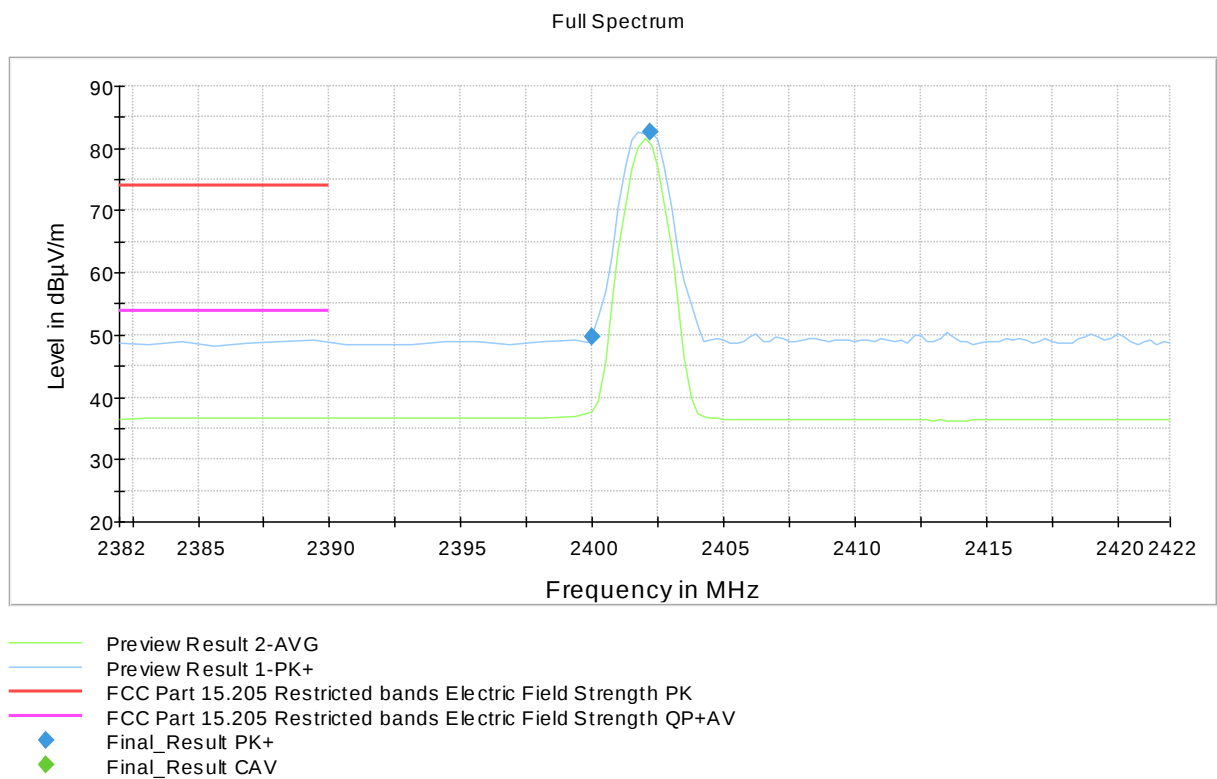


Figure 24: Lower band-edge (bottom channel)

Unwanted Emissions (radiated)

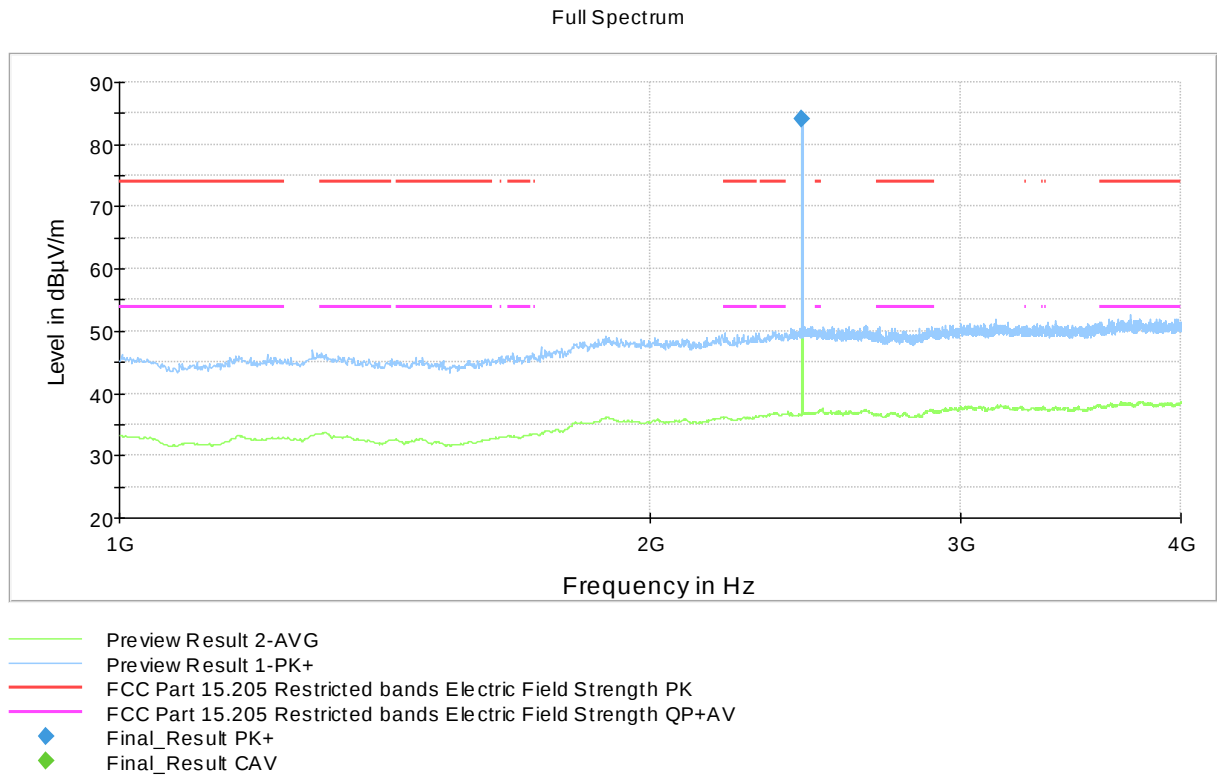


Figure 25: Unwanted radiated emissions 1 – 4 GHz (middle channel)

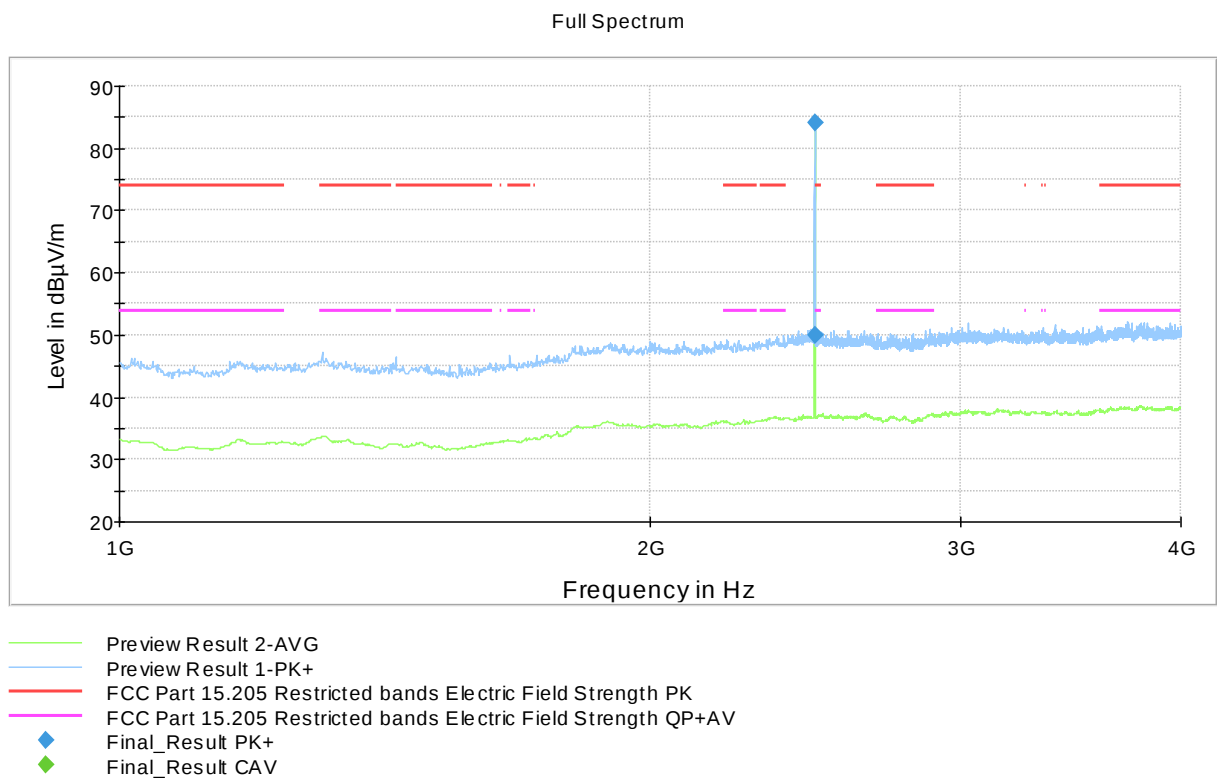


Figure 26: Unwanted radiated emissions 1 – 4 GHz (top channel)

Unwanted Emissions (radiated)

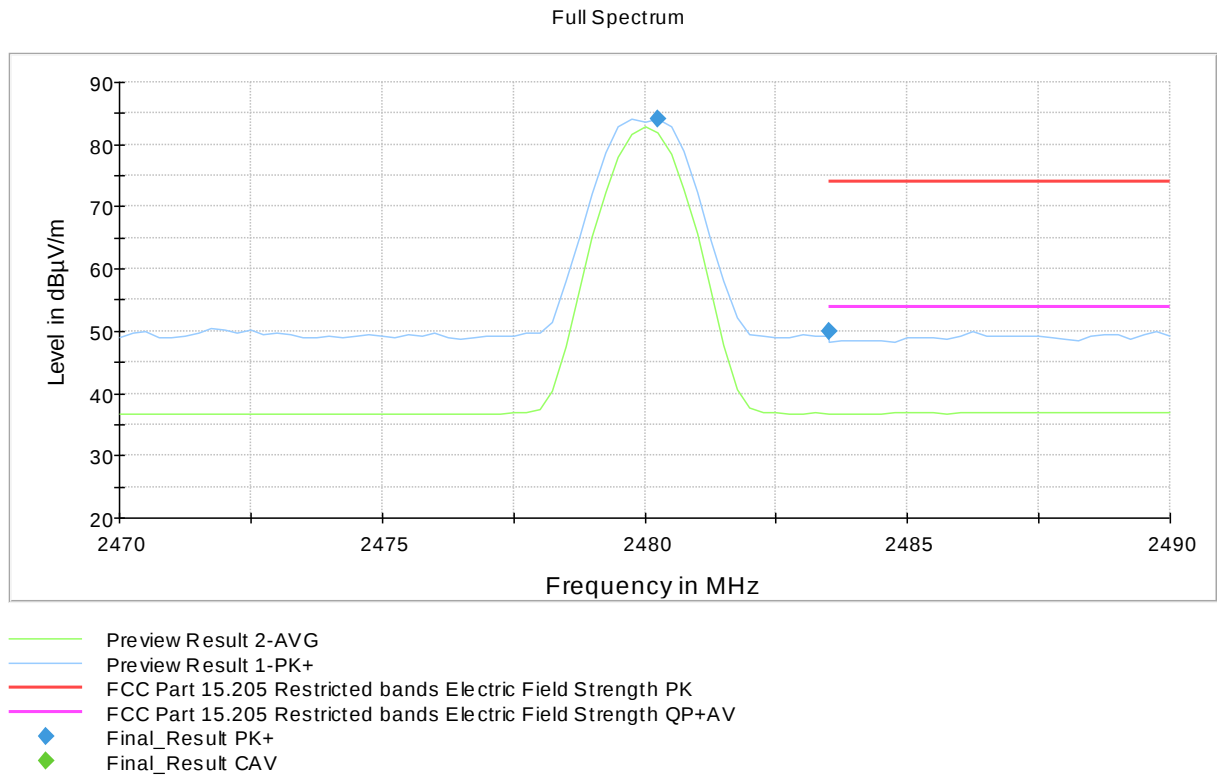


Figure 27: Upper band-edge (top channel)

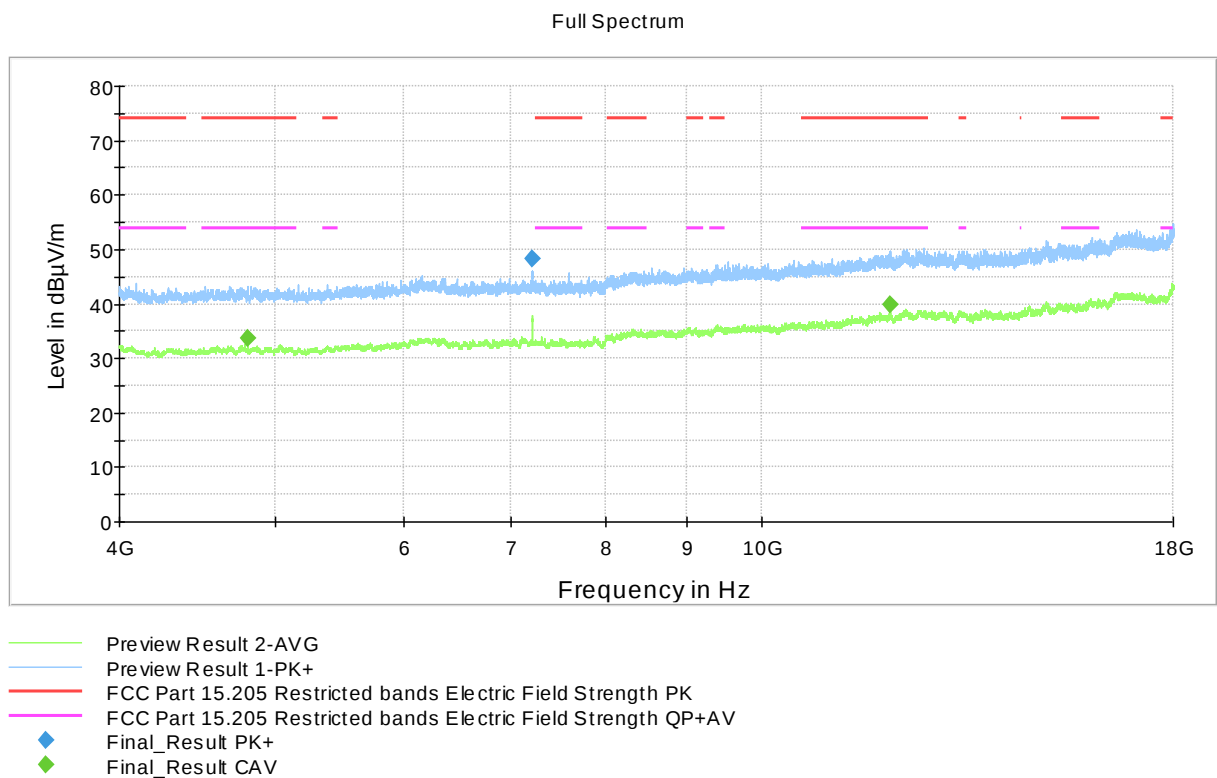


Figure 28: Unwanted radiated emissions 4 – 18 GHz (bottom channel)

Unwanted Emissions (radiated)

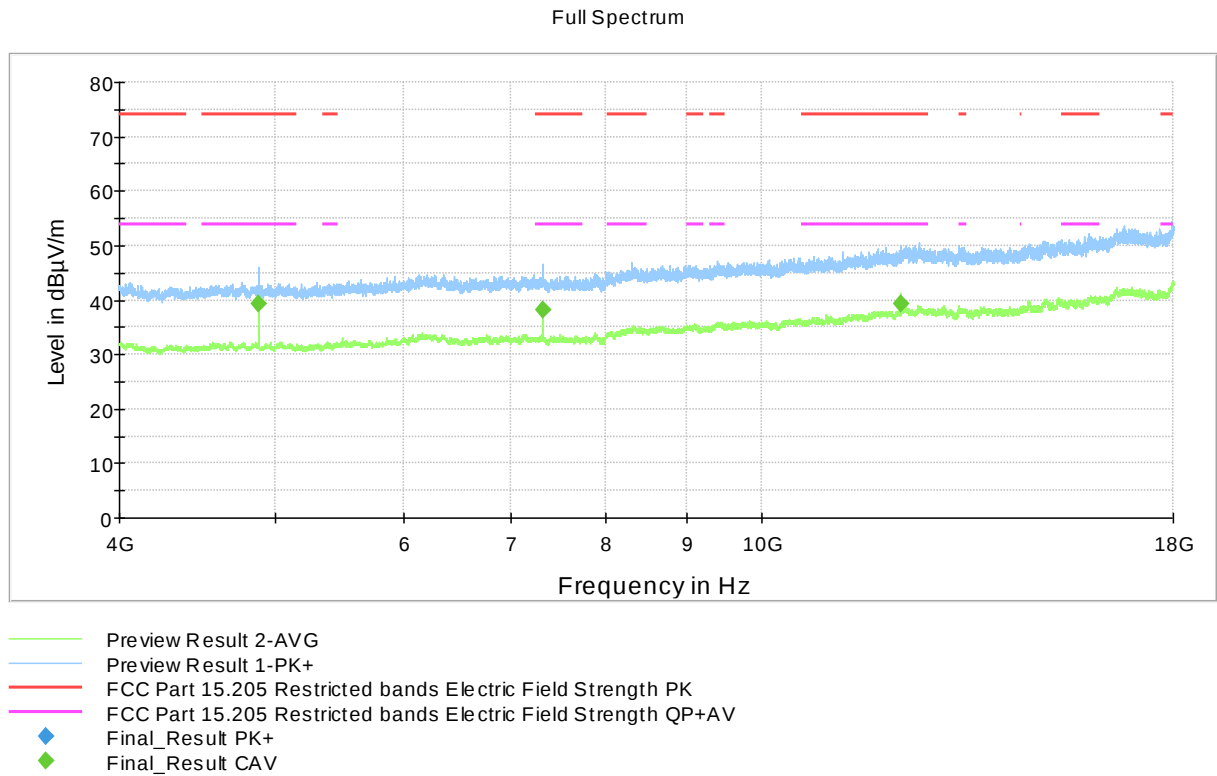


Figure 29: Unwanted radiated emissions 4 – 18 GHz (middle channel)

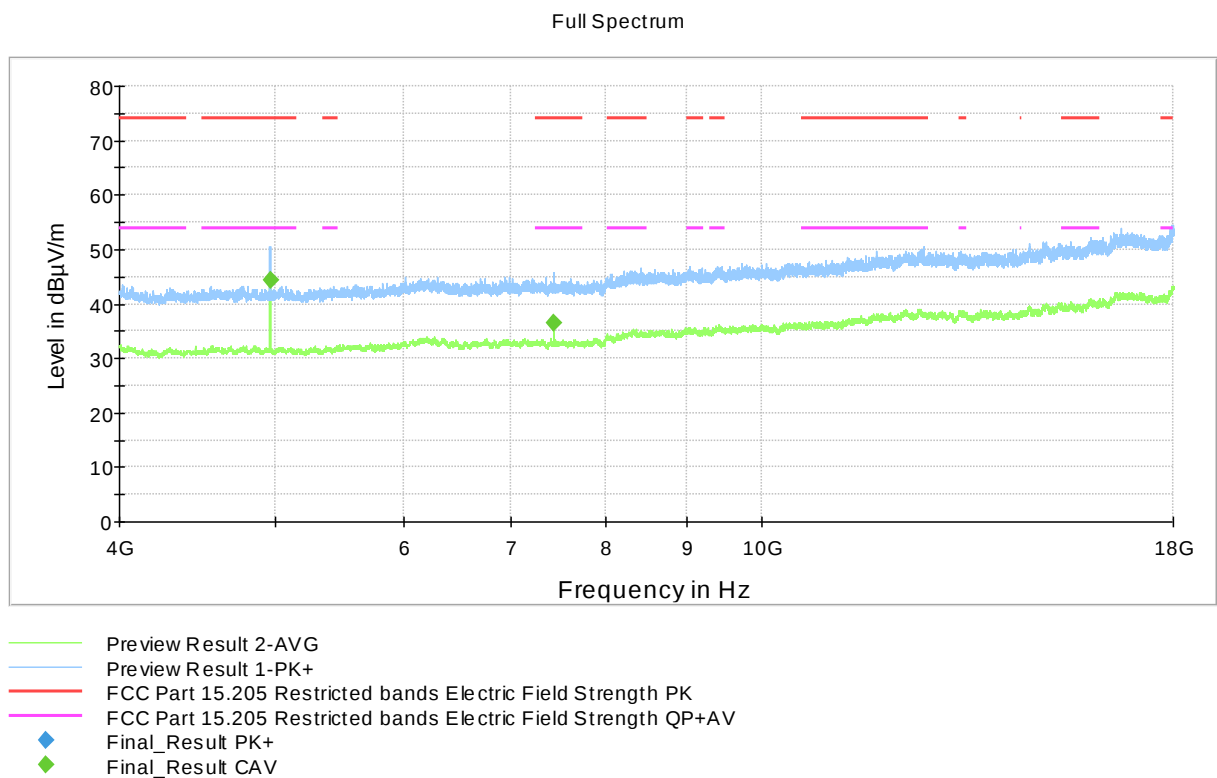


Figure 30: Unwanted radiated emissions 4 – 18 GHz (top channel)

Unwanted Emissions (radiated)

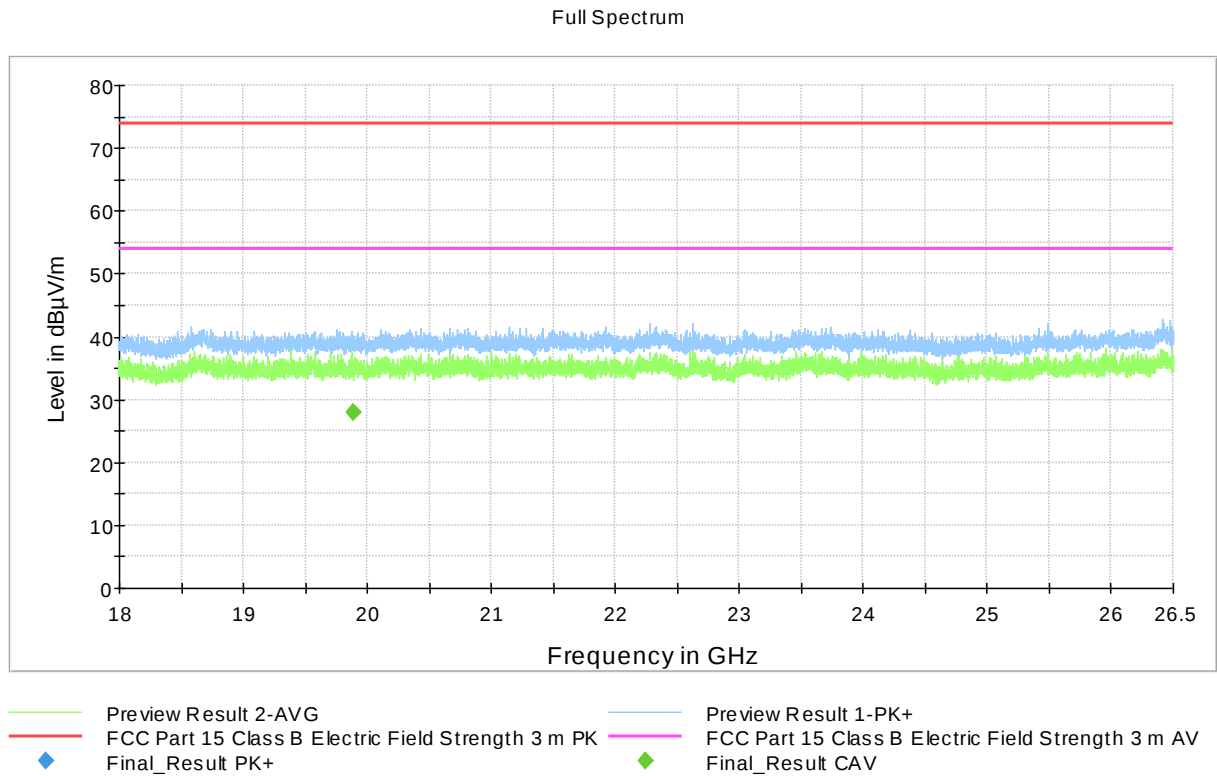


Figure 31: Unwanted radiated emissions 18 – 25 GHz (bottom channel)

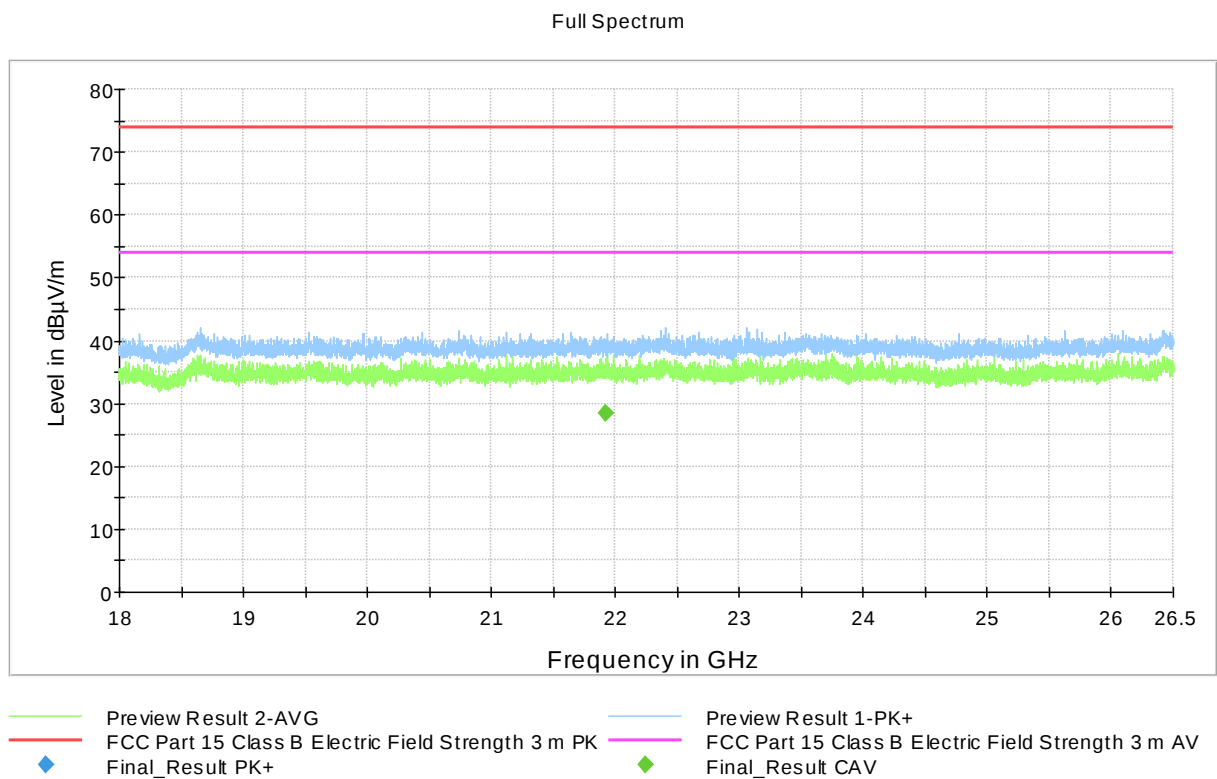


Figure 32: Unwanted radiated emissions 18 – 25 GHz (middle channel)

Unwanted Emissions (radiated)

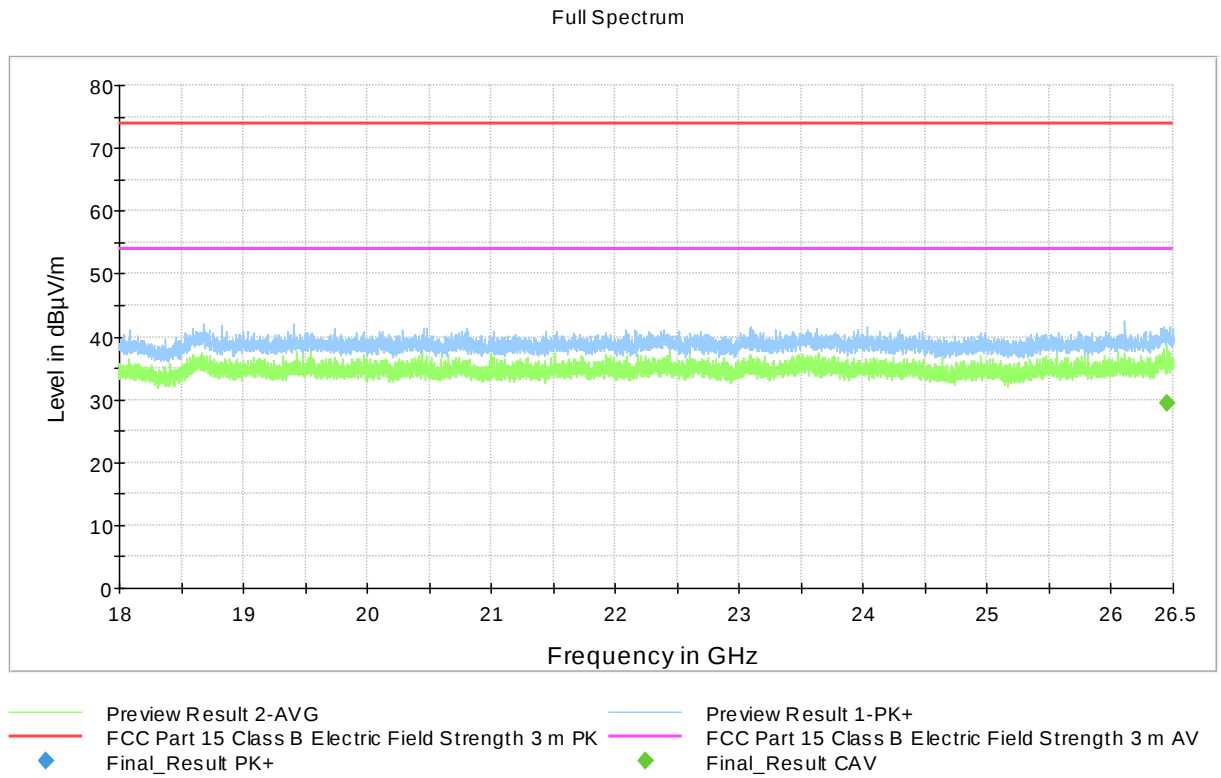


Figure 33: Unwanted radiated emissions 18 – 25 GHz (top channel)

Power Spectral Density

Standard: ANSI C63.10-2020
Tested by: HEM
Date: 30 September 2024
Temperature: 22 °C
Humidity: 31 %RH

Test result: **PASS**

FCC §15.247(e)
RSS-247 clause 5.2 b)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test results

Table 8: Test results for Power Spectral Density

Frequency [MHz]	PSD [dBm/10 kHz]	Limit [dBm/3 kHz]	Result
2402	-2.455	8	PASS
2440	-2.323		PASS
2480	-0.507		PASS

Note: The compliance was determined in a 10 kHz band.

The conducted measurement was performed with a spectrum analyzer using the following settings:

Setting	Value
Span	1.5 MHz
RBW	10 kHz
VBW	30 kHz
Sweep Points	300
Sweep Time	1.5 ms
Detector	MaxPeak
Trace Mode	Max Hold
Sweep Type	Sweep

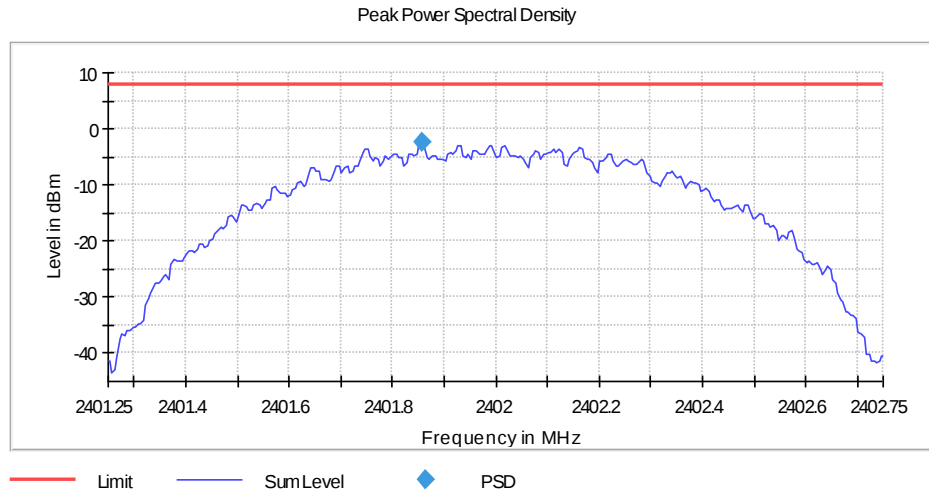


Figure 34: Power Spectral Density (bottom channel)

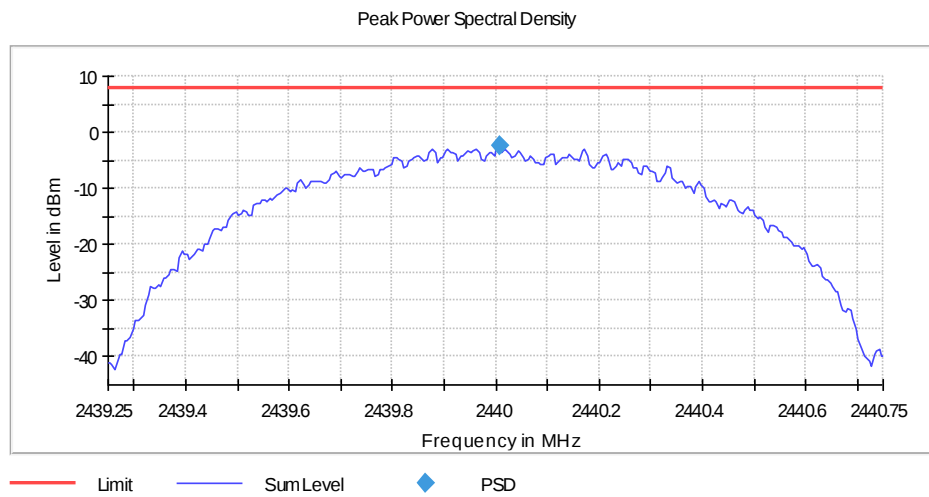


Figure 35: Power Spectral Density (middle channel)

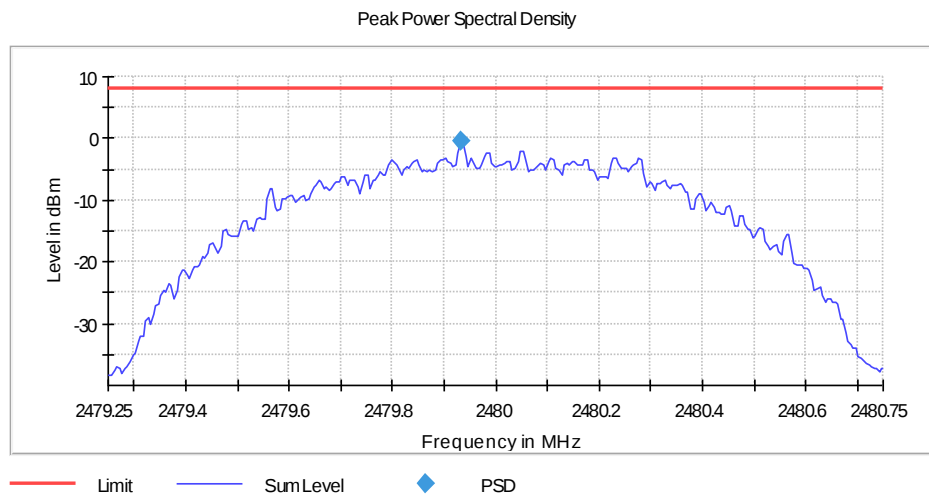


Figure 36: Power Spectral Density (top channel)

TEST EQUIPMENT

Conducted tests

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
BASE MODULE	ROHDE & SCHWARZ	OSP-B157W8	inv. 10883	2024-07-23	2025-07-23
CABLE	SUHNER	SUCOFLEX 104	inv. C119	2024-07-16	2025-07-16
EQUIPMENT RACK	ROHDE & SCHWARZ	TS97-RA	inv. 9291	NCR	NCR
EXTENSION MODULE	ROHDE & SCHWARZ	OSP-B157WX	inv. 10884	2024-07-09	2025-07-09
POWER SUPPLY	THANDAR	PL330TP	inv. 109042	NCR	NCR
SPECTRUM ANALYZER	ROHDE & SCHWARZ	FSV40	inv. 10881	2024-06-13	2025-06-12
SWITCH UNIT FOR BASE MODULE	ROHDE & SCHWARZ	OSP120	inv. 10882	2024-07-19	2025-07-19
SWITCH UNIT FOR EXTENSION MODULE	ROHDE & SCHWARZ	OSP120	inv. 9289	2024-07-23	2025-07-23
TEST SOFTWARE	ROHDE & SCHWARZ	WMS32	v.11.70.01	-	-

Radiated tests

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
ANTENNA	ROHDE & SCHWARZ	HFH2-Z2 , 335.4711.52	inv. 8013	2022-10-25	2024-10-25
ANTENNA	SCHWARZBECK	VULB 9168	inv. 8911	2022-11-29	2024-11-29
ANTENNA	EMCO	3160-09, emi 18-26.5GHz	inv. 7294	2024-01-31	2025-01-31
ANTENNA	ETS LINDGREN	3117	inv. 9569	2023-05-05	2025-05-05
ANTENNA MAST	MATURO	TAM 4.0E	inv. 10181	NCR	NCR
ATTENUATOR	HUBER & SUHNER	6610.19.AA (10dB)	inv. A3	2023-01-04	2025-01-04
ATTENUATOR	PASTERNAK	PE 7004-4 (4dB)	inv. 10126	2024-02-16	2025-02-16
CABLE	SUHNER	SUCOFLEX 126E 18-26.5GHz	inv. C134	2024-04-05	2025-04-05
CABLE	SUHNER	SUCOFLEX 126E 1-18GHz	inv. C137	2024-04-05	2025-04-05
COAX CHAIN K5 EMI < 1GHz	-	C053+FP3AirC+C138	-	2024-03-28	2025-03-28
COAX CHAIN K5 EMI 1GHz-26.5GHz	-	C135+C149	-	2024-03-28	2025-03-28
EMI TEST RECEIVER	ROHDE & SCHWARZ	ESW26	inv. 10679	2024-06-12	2025-06-11
FILTER	WAINWRIGHT	HP, WHKX4.0/18G-10SS	inv. 10403	2023-01-09	2025-01-09
MAST & TURNTABLE CONTROLLER	MATURO	NCD	inv. 10183	NCR	NCR
RF PREAMPLIFIER	CIAO	CA1840-5019	inv. 10593	2024-09-10	2025-09-10
RF PREAMPLIFIER	CIAO	CA118-3123	inv. 10278	2024-09-10	2025-09-10
TEMPERATURE/ HUMIDITY SENSOR	EDS	OW-ENV-TH, K5 SAC	inv. 10517	2023-10-30	2024-10-30
TEST SOFTWARE	ROHDE & SCHWARZ	EMC-32	-	-	-
TURNTABLE	MATURO	DS430 UPGRADED	inv. 10182	NCR	NCR

NCR = No Calibration Required

END OF REPORT