

Test report

Number T251-0683/26

Project file: C20261042

Date: 2026-07-28

Pages: 16

Product: RFID reader Sled

Type reference: CT47 SLED HF/UHF RFID Reader

Ratings: Supplied from handheld device:
5 V d.c.; 3 A; Class III

Trademark:

Honeywell

Applicant: Honeywell International Inc.
9680 Old Bailes Rd, Fort Mill, 29707 South Carolina, USA

Manufacturer: Honeywell International Inc.
9680 Old Bailes Rd, Fort Mill, 29707 South Carolina, USA

Place of manufacture: Micro-Sensys GmbH
In der Hochstedter Ecke 2, 99098 Erfurt, Germany

Summary of testing

Testing method: 47 CFR Part 15, Subpart C (Clause 15.209)
RSS-Gen (Issue 5)
last amended 2024-08-08 in conjunction with ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024

Testing location: SIQ Ljubljana
Mašera-Spasičeva ulica 10, SI-1000 Ljubljana, Slovenia
FCC Registration number: 241065
FCC and CAB Designation number: SI0001

Remarks: Date of receipt of test items: 2026-04-29
Number of items tested: 1
Date of performance of tests: 2026-07-21 – 2026-07-28
The test results presented in this report relate only to the items tested.
The test items were tested in the condition as received.
The product complies with the requirements of the testing methods.

Tested by: Luka Cvajnar

Approved by: Marjan Mak



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1 GENERAL

History sheet

Date	Report No.	Change	Revision
2026-07-28	T251-0683/26	Initial Test Report issued.	--

Environmental conditions:

Ambient temperature: 15°C to 35°C

Relative humidity: 30% to 60%

Atmospheric pressure: 860 mbar to 1060 mbar

1.1 Equipment under test

RFID reader Sled

Type: CT47 SLED HF/UHF RFID Reader

FCC ID: HD5-CT47HFUHF

IC: 1693B-CT47HFUHF

Equipment marking plates

{The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.}

FCC ID: HD5-CT47HFUHF

IC: 1693B-CT47HFUHF

CAN ICES(A)/NMB(A)

PN:CT47-HFUHF-Sled-US

HVIN: F580

Brand owner:Honeywell International Inc

<https://automation.honeywell.com/us/en>

Patent: www.hsmpats.com

Model: CT47-HFUHF

Input: 5V  3A

Made in Germany



PN



SN

SN:XXXXXX

Honeywell

Manufacturer:

HONEYWELL INTERNATIONAL INC
9680 OLD BAILES RD., FORT MILL SC
29707, USA



1.2 General product information

The EUT is a rugged accessory for the Honeywell CT47 mobile computer which enables HF and UHF reading. Reader is supplied from mobile computer CT47.

Product	RFID reader Sled
Type / Model (PMN)	CT47 SLED HF/UHF RFID Reader
Supply voltage of transmitter	5 V d.c.
Operating frequency	13,56 MHz 915.50 MHz – 927.70 MHz
Number of channels	50
Antenna type	Ceramic Patch Antenna
Modulation type	AM
Hardware version (HVIN):	F580
Firmware version (FVIN):	00 07

Channel list:

Channel	Centre frequency(kHz)	Channel	Centre frequency(kHz)
1	915450	26	921700
2	915700	27	921950
3	915950	28	922200
4	916200	29	922450
5	916450	30	922700
6	916700	31	922950
7	916950	32	923200
8	917200	33	923450
9	917450	34	923700
10	917700	35	923950
11	917950	36	924200
12	918200	37	924450
13	918450	38	924700
14	918700	39	924950
15	918950	40	925200
16	919200	41	925450
17	919450	42	925700
18	919700	43	925950
19	919950	44	926200
20	920200	45	926450
21	920450	46	926700
22	920700	47	926950
23	920950	48	927200
24	921200	49	927450
25	921450	50	927700

Test mode	Description
1	HF Scan and UHF Scan activated on EUT and CT47 computer was connected WiFi network. EUT was supplied from computer CT47.

NOTE: The information in this section has been provided by the applicant.

1.3 Measurement uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the product, as specified in ETSI TR 100 028-2 and C63.23. This represents an expanded uncertainty expressed at 95% confidence level using a coverage factor $k=2$.

Measurements	U_{LAB}	$U_{ETSI TR 100 028-2}$	$U_{C63.23}$
AC Line Conducted Emission	3.2 dB	/	$\pm 4,13$
Spurious emission 30 – 300 MHz	4.2 dB	± 6	/
Spurious emission 300 – 1000 MHz	4.4 dB	± 6	/
Occupied bandwidth (99% emission bandwidth)	< 2%	$\pm 5\%$	/

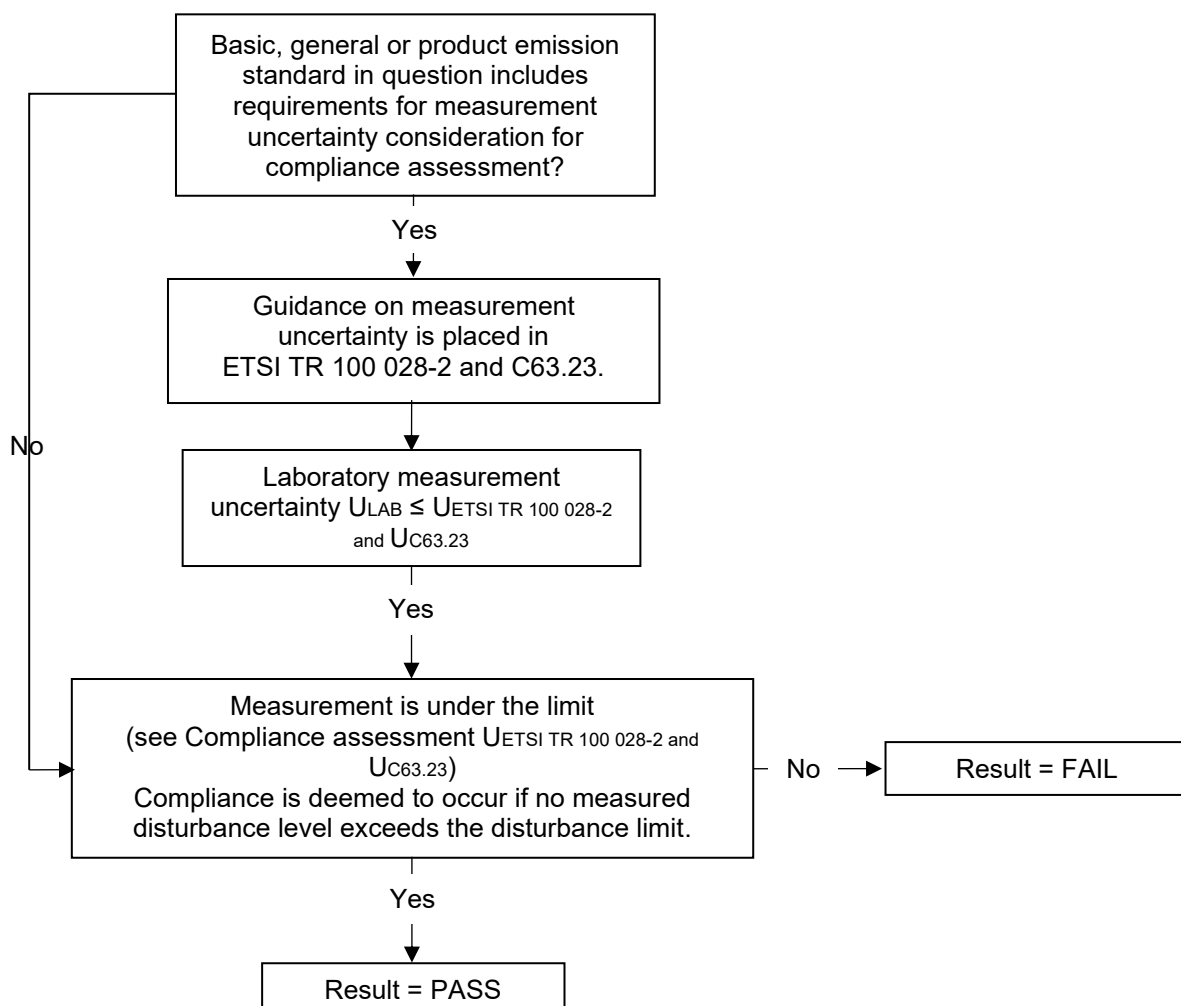
Note: Measurement uncertainty calculated in accordance with ETSI TR 100 028-2 and C63.23.

1.4 Application of decision rule

Application of decision rule and statement of conformity is defined in document TN023 Decision rule and measurement uncertainty.

As a general rule Pass/Fail decisions are based on simple acceptance rule and acceptance limits chosen based on simple acceptance ($w = 0$, $AL = TL$) except if a decision rule is governed by particular standard or guidance document.

Decision rule:



2 TEST EQUIPMENT

Equipment used					
<i>Conducted measurements</i>					
Equipment	Type	Inventory number	Manufacturer	Last calibration	Calibration due date
Spectrum analyser	FSV40	101848	Rohde & Schwarz	2024-11-08	2026-11-08
<i>Radiated measurements</i>					
EMI test receiver	ESW 44		R&S	2026-03-10	2026-09-10
Semi-anechoic chamber	SAC 3m	109071	Comtest engineering	2025-03-24	2028-03-24
Ultra-Broadband Antenna	HL562E	/	Rohde & Schwarz	2023-09-26	2026-09-26
Horn Antenna	HF907	102508	Rohde & Schwarz	2023-08-22	2026-08-22
Active loop antenna	FMZB 1519		Schwarzbeck	2025-10-21	2027-04-21
Digital Multimeter	179	106728	Fluke	2026-01-28	2027-01-28
Highpass filter	WHKX12	/	Wainwright	2025-02-20	2027-02-20
Band reject Filter, Tunable	WTRCT5 - 850-950	/	Wainwright	Verification prior measurement	
Turn table (2 m diameter)	TT 2.0 SI	/	Maturo	N/A	
Bore-sight antenna mast	BAM-4.0-P	/	Maturo	N/A	
Multi-channel positioning equipment	Maturo NCD	/	Maturo	N/A	



3 TEST SUMMARY

STANDARD	Tested		Sample	
	yes	no	pass	not pass
FCC 47 CFR Part 15, Subpart C, §15.209				
Note: All tests were conducted using ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024	☒	☐	☒	☐

Test	Section within the report	Conclusion
§15.209 Radiated Spurious Emissions	4.1	PASS

3.1 Operating voltages/frequencies used for testing

Test	Operating conditions
§15.209 Radiated Spurious Emissions	5 V d.c.

4 Tests

4.1 §15.209 Radiated Spurious Emissions

Requirements

§15.35 Measurement detector functions and bandwidths

(b) Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1 MHz. When average radiated emission measurements are specified in this part, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. Unless otherwise specified, e.g., see §§15.250, 15.252, 15.253(d), 15.255, 15.256, and 15.509 through 15.519 of this part, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device, e.g., the total peak power level. Note that the use of a pulse desensitization correction factor may be needed to determine the total peak emission level. The instruction manual or application note for the measurement instrument should be consulted for determining pulse desensitization factors, as necessary.

§15.209 Radiated emission limit

Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency Range (MHz)	Limits (dBµV/m)	Test distance (m)
0,009 to 0,490	$20 \cdot \log(2400/F(\text{kHz}))$	300
0,490 to 1,705	$20 \cdot \log(24000/F(\text{kHz}))$	30
1,705 to 30,0	30	30
30 to 88	40**	3
88 to 216	43.5**	3
216 to 960	46**	3
Above 960	54	3

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

§15.205 Restricted bands of operation

Requirement

Except as shown in paragraph (d) of §15.205 only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

Test procedure

As per Clauses 6.3, 6.4, 6.5 and 6.6 from ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024:

Conclusion: PASS

4.1.1 Test results

EUT Information

EUT:

CT47SLED

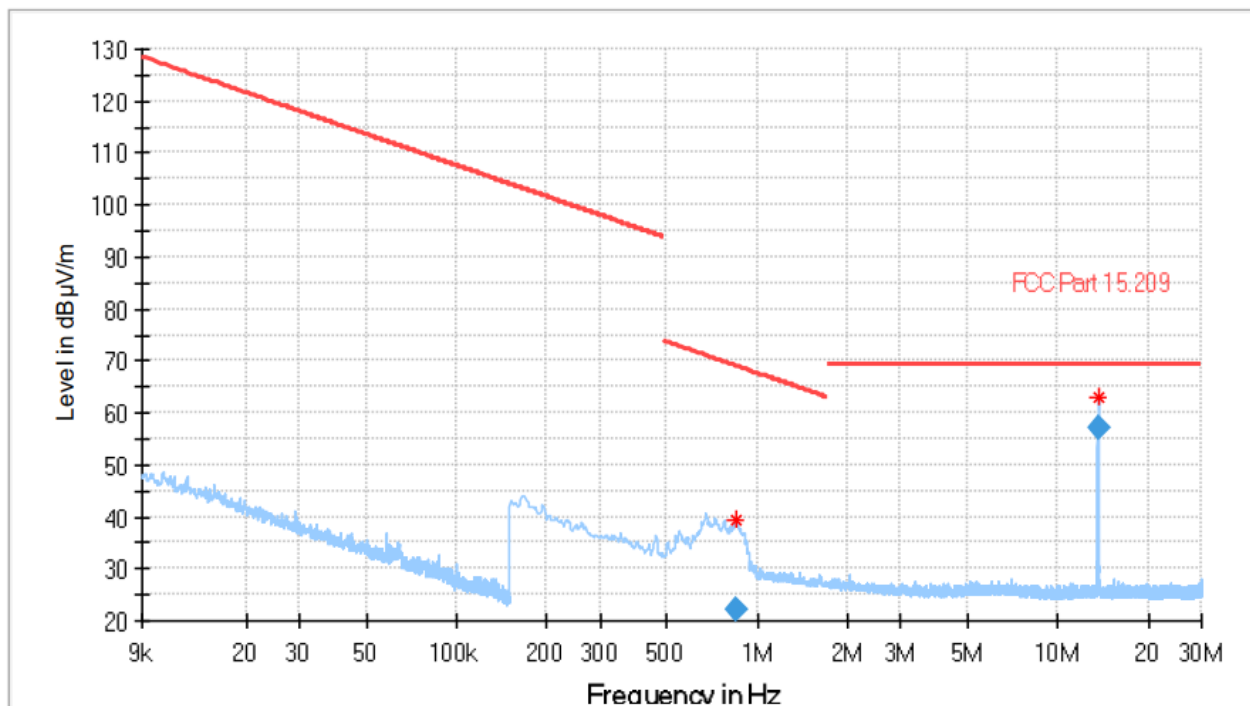
Operating mode:

HF Scan + UHF Scan, Terminal connected to WiFi

Antenna polarization:

Coaxial

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth h (kHz)	Height (cm)	Pol	Azimuth h (deg)	Corr . (dB/
0.852000	22.00	69.01	47.01	1000.0	9.000	100.0	H	165.0	17.0
13.560000	56.95	69.50	12.55	1000.0	9.000	100.0	H	357.0	17.3



EUT Information

EUT:

Operating mode:

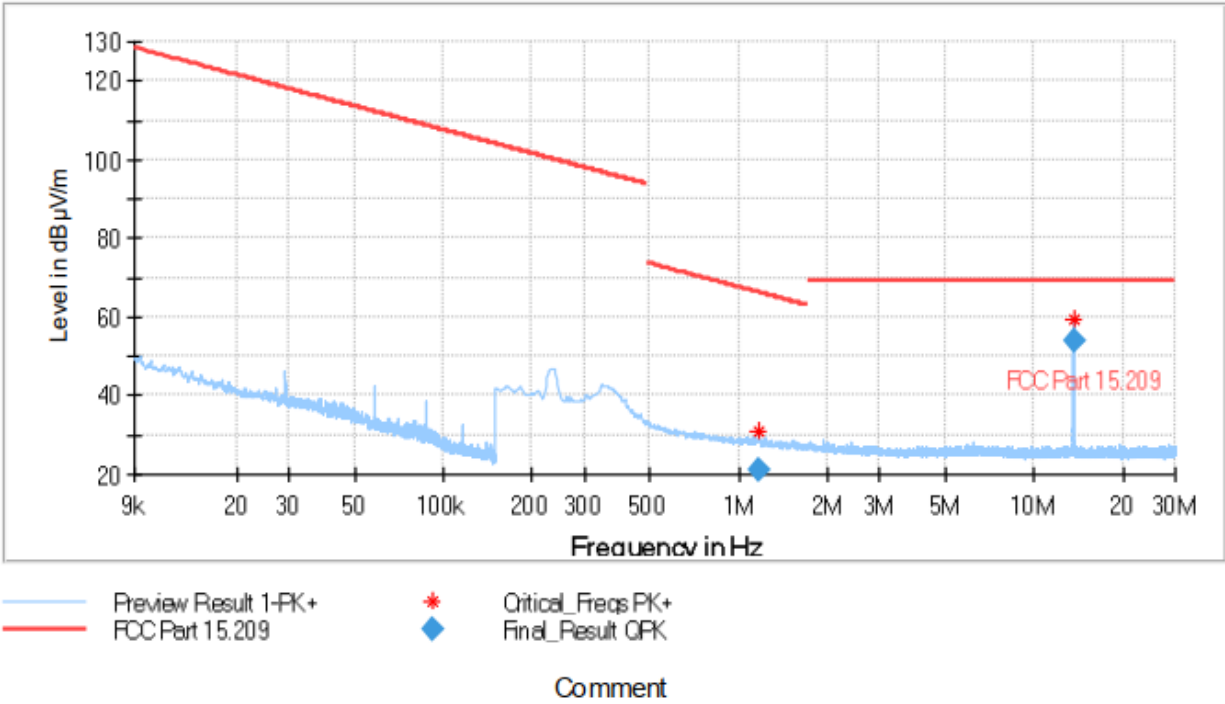
Antenna polarization:

CT47SLED

HF Scan + UHF Scan, Terminal connected to WiFi

Coplanar

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth h (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr (dB/)
1.171500	20.87	66.25	45.38	1000.0	9.000	100.0	H	319.0	17.0
13.560000	54.11	69.50	15.39	1000.0	9.000	100.0	H	77.0	17.3

EUT Information

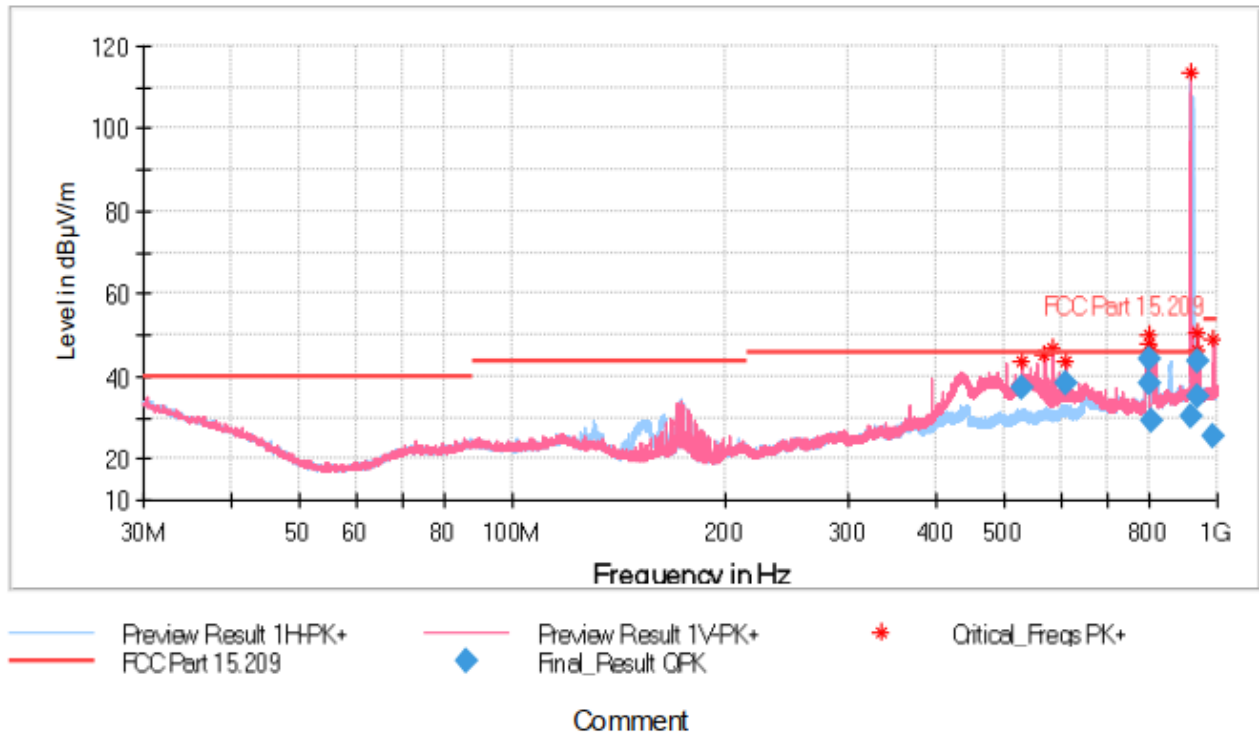
EUT:

CT47SLED

Operating mode:

HF Scan + UHF Scan, Terminal connected to WiFi

Full Spectrum



Final_Result

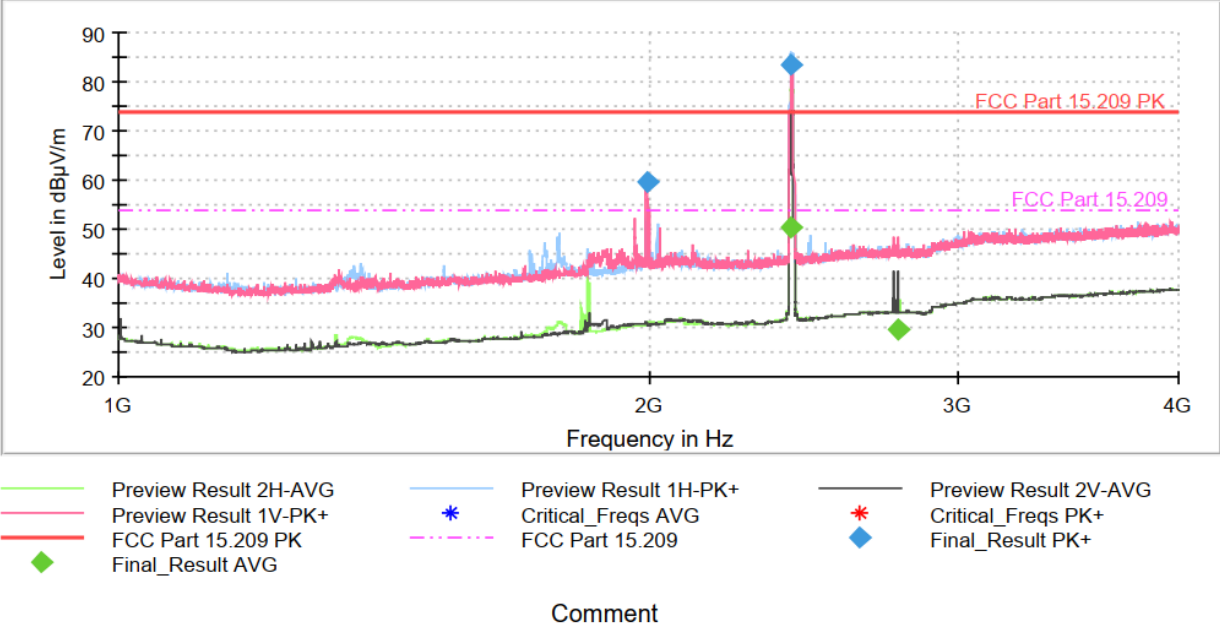
Frequency (MHz)	QuasiPeak (dBμV/m)	DET 2 (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
528.840000	37.45	---	46.00	8.55	100.0	V	3.0
610.200000	38.33	---	46.00	7.67	100.0	V	7.0
798.870000	38.05	---	46.00	7.95	100.0	V	292.0
800.700000	44.28	---	46.00	1.72	100.0	V	336.0
805.050000	29.44	---	46.00	16.56	100.0	V	174.0
918.000000	30.17	---	46.00	15.83	100.0	H	297.0
936.810000	43.61	---	46.00	2.39	100.0	V	20.0
940.830000	35.02	---	46.00	10.98	100.0	H	0.0
988.980000	25.70	---	54.00	28.30	100.0	V	114.0

EUT Information

EUT:
Operating mode:

CT47SLED
HF Scan + UHF Scan, Terminal connected to WiFi

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
1994.750000	59.52	---	74.00	14.48	160.0	V	35.0
2409.250000	83.31	---	74.00	-9.31	140.0	H	63.0
2410.250000	---	50.55	54.00	3.45	160.0	H	63.0
2769.500000	---	29.45	54.00	24.55	160.0	V	12.0

EUT Information

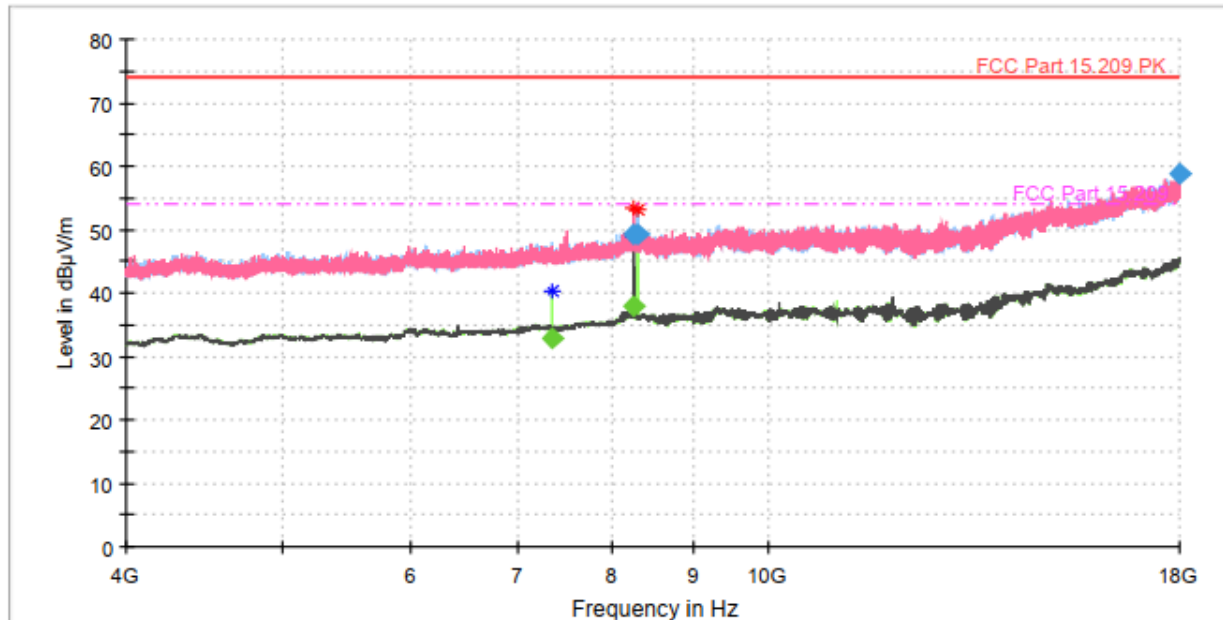
EUT:

CT47SLED

Operating mode:

HF Scan + UHF Scan, Terminal connected to WiFi

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
7341.500000	---	32.82	54.00	21.18	160.0	H	0.0
8266.500000	49.31	---	74.00	24.69	160.0	V	0.0
8266.500000	---	37.98	54.00	16.02	160.0	V	0.0
8316.000000	49.28	---	74.00	24.72	160.0	H	174.0
17973.500000	58.67	---	74.00	15.33	160.0	H	51.0

EUT Information

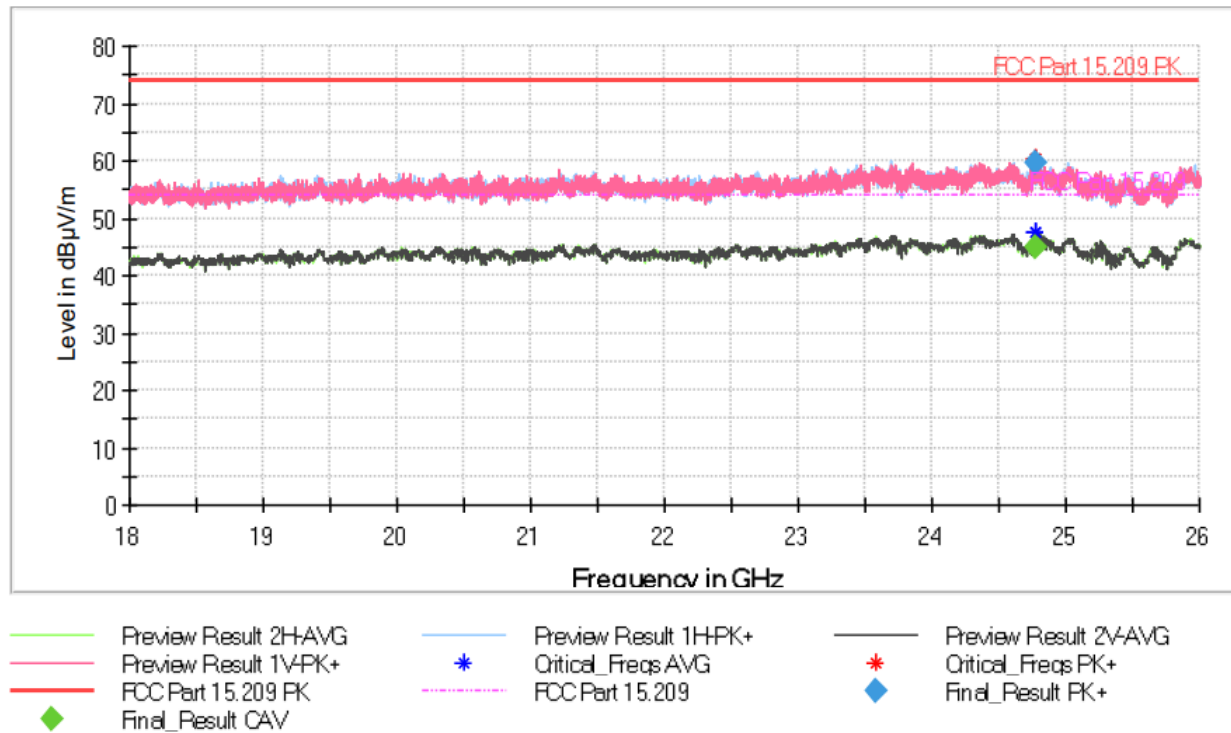
EUT:

CT47SLED

Operating mode:

HF Scan + UHF Scan, Terminal connected to WiFi

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
24771.50000	---	44.95	54.00	9.05	160.0	H	287.0
24780.00000	59.66	---	74.00	14.34	160.0	V	336.0

-----END OF TEST REPORT-----