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Prüfbericht-Nr.: Test report no.:	CN23HVZN (P15C-BLE) 001	Auftrags-Nr.: Order no.:	48223335	Seite 1 von 25 Page 1 of 25
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2023-08-31	
Auftraggeber: Client:	HP Inc. 3390 East Harmony Road, F	ort Collins, CO 8052	28, USA	
Prüfgegenstand: Test item:	Wireless Mouse			
Bezeichnung / Typ-Nr.: Identification / Type no.:	HXMS231			
Auftrags-Inhalt: Order content:	FCC Part 15C Test report (B	LE)		
Prüfgrundlage: Test specification:	FCC 47CFR Part 15: Subpar	t C Section 15.249		
Wareneingangsdatum: Date of sample receipt:	2023-08-25			
Prüfmuster-Nr.: Test sample no:	A003548427-002 A003548427-005			
Prüfzeitraum: Testing period:	2023-09-04 - 2023-09-05			
Ort der Prüfung: <i>Place of testing:</i>	EMC/RF Taipei Testing Site			
Prüflaboratorium: Testing laboratory:	Taipei Testing Laboratories			
Prüfergebnis*: Test result*:	Pass			
überprüft von: compiled by:		genehmigt von: authorized by:	Λ	
Datum:		Ausstellungsdatu	um: Beer	la Ch
Date: 2023-09-11	Ryan Chen	Issue date: 2023	-09-11 Brer	nda Chen
Stellung / Position:	Senior Project Manager	Stellung / Position	n: Senior Pr	oject Manager
Sonstiges / Other:				
Zustand des Prüfgegens Condition of the test item a	tandes bei Anlieferung: at delivery:	Prüfmuster vollständ Test item complete	dig und unbeschädigt and undamaged	
* Legende: 1 = sehr gut	2 = gut 3 = befriedigend		4 = ausreichend	5 = mangelhaft
P(ass) = entspricht o. * Legend: 1 = very good	.g. Prutgrundlage(n)F(ail) = entspricht2 = good3 = satisfactory	nıcnt o.g. Prüfgrundlage(n)	N/A = nicht anwendbar 4 = sufficient	N/T = nicht getestet 5 = poor
P(ass) = passed a.m	test specification(s) $F(ail) = failed a.m.$	test specification(s)	N/A = not applicable	N/T = not tested
auszugsweise vervie This test report only relates the	elfältigt werden. Dieser Bericht b	perechtigt nicht zur V	erwendung eines Prüf	zeichens.
vos dupi	licated in extracts. This test report	does not entitle to car	ry any test mark.	



Prüfbericht - Nr.:

Test Report No.

CN23HVZN (P15C-BLE) 001

Seite 2 von 25 Page 2 of 25

TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.203	Antenna Requirement	Pass
5.1.2	15.249 (a)	Field Strength of Fundamental Emissions	Pass
5.1.3	15.249 (d)	Radiated Spurious Emissions	Pass
5.1.4	15.215 (c)	20 dB Bandwidth	Pass
5.1.5	2.1049	99% Occupied Bandwidth	Pass
-	15.207	Mains Conducted Emission	N/A

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.



Seite 3 von 25 Prüfbericht - Nr.: **CN23HVZN (P15C-BLE) 001** Page 3 of 25 Test Report No. Contents HISTORY OF THIS TEST REPORT......4 1. 1.1 1.2 2. 2.1 2.2 2.3 2.4 CALIBRATION7 2.5 Measurement Uncertainty......7 3. PRODUCT FUNCTION AND INTENDED USE8 3.1 SYSTEM DETAILS AND RATINGS......8 3.2 NOISE GENERATING AND NOISE SUDDRESSING PADES 0 33

3.3	NOISE GENERATING AND NOISE SUPPRESSING FARTS	9
3.4	SUBMITTED DOCUMENTS	9
4.	TEST SET-UP AND OPERATION MODES	10
4.1	PRINCIPLE OF CONFIGURATION SELECTION	10
4.2	CARRIER FREQUENCY AND CHANNEL	10
4.3	TEST OPERATION AND TEST SOFTWARE	11
4.4	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	12
4.5	TEST SETUP DIAGRAM	12
4.6	DUTY CYCLE OF TEST SIGNAL	13
5.	TEST RESULTS	14
5.1	TRANSMITTER REQUIREMENT & TEST SUITES	14
5.1.1	1 Antenna Requirement	14
5.1.2	2 Field Strength of Fundamental Emissions	15
5.1.3	3 Radiated Spurious Emissions	
5.1.4	4 20 dB Bandwidth	
5.1.5	5 99% Occupied Bandwidth	24
A	A Tee Deals - a Distance Fundations	

APPENDIX A - TEST RESULT OF RADIATED EMISSIONS

APPENDIX SP - PHOTOGRAPHS OF TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT



P rüfberich est Report No.	t - Nr.:	CN23HVZN (P15C-BLE) 001	Seite 4 von Page 4 of
		HISTORY OF THIS TEST REPOR	RT
Revision		Description	Date Issued
R01	Original Re	lease	2023-09-11



Prüfbericht - Nr.: *Test Report No.*

CN23HVZN (P15C-BLE) 001

Seite 5 von 25 Page 5 of 25

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix: **Appendix A - Test Result of Radiated Emissions Appendix SP - Photographs of Test Setup Appendix EP - Photographs of EUT**

Applied Standard and Test Levels

```
Radio
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FCC 47CFR Part 15: Subpart C Section 15.249 ANSI C63.10:2013

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.



Prüfbericht - Nr.: Test Report No.

CN23HVZN (P15C-BLE) 001

Seite 6 von 25 Page 6 of 25

2. Test Sites

2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist. Taipei City 105 Taiwan (R.O.C.)

2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist., New Taipei City 244 Taiwan (R.O.C.) FCC Registration No.: 180491 ISED Registration No.: 25563



CN23HVZN (P15C-BLE) 001

Seite 7 von 25 Page 7 of 25

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of k=2 to indicate a 95% level of confidence.

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.32 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.31 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.53 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.50 dB
Mains Conducted Emission	± 1.65 dB



: CN23HVZN (P15C-BLE) 001

Seite 8 von 25 Page 8 of 25

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Wireless Mouse. It contains a Bluetooth compatible module enabling the user to communicate data through a Wireless interface. For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	Wireless Mouse
Type Identification	HXMS231
FCC ID	B94-HXMS231

Technical Specification of EUT

Item	EUT information
Operating Frequency	2402 ~ 2480 MHz
Operation Voltage	1.5 Vdc
Modulation	GFSK
Maximum Output Power	98.10 dBuV/m (2.87 dBm)
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.4



Prüfbericht - Nr.: CN23HVZN (P15C-BLE) 001

Seite 9 von 25 Page 9 of 25

Test Report No.

3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description



Nr.: CN23HVZN (P15C-BLE) 001

Seite 10 von 25 Page 10 of 25

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum emission level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Carrier Frequency and Channel

Channel	Freq. (MHz)						
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480



Prüfbericht - Nr.: CN23HVZN (P15C-BLE) 001

Seite 11 von 25 Page 11 of 25

Test Report No.

4.3 Test Operation and Test Software

Setup for testing: It was used to enable the operation modes through pressing button listed as below.

The samples were used as follows: A003548427-002 A003548427-005

Full test was applied on all test modes, but only worst case was shown.

		Applica	able To		
EUT Configure Mode	Field Strength of Fundamental Emissions	Radiated Spurious Emissions	20 dB Bandwidth & Occupied Bandwidth	Mains Conducted Emission	Description
-	\checkmark	\checkmark	\checkmark	-	-

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on Z-plane.

2. "-" means no effect.

Field Strength of Fundamental Emissions

Pre-Scan full test was applied on all test modes, but only worst case was shown.

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	2402 ~ 2480	2402, 2440, 2480

Radiated Spurious Emission above 1 GHz

Pre-Scan full test was applied on all test modes, but only worst case was shown.

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	2402 ~ 2480	2402, 2440, 2480

Radiated Spurious Emission below 1 GHz

Pre-Scan full test was applied on all test modes, but only worst case was shown.

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	2402 ~ 2480	2480

20 dB Bandwidth & Occupied Bandwidth

Pre-Scan full test was applied on all test modes, but only worst case was shown.

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	2402 ~ 2480	2402, 2440, 2480



Prüfbericht - Nr.:

Test Report No.

CN23HVZN (P15C-BLE) 001

Seite 12 von 25 Page 12 of 25

Test Condition			
Test Item	Ambient Temperature	Relative Humidity	Tested by
Field Strength of Fundamental Emissions	23.7-24.8 °C	54-56 %	Roger Liao
Radiated Spurious Emissions	23.7-24.8 °C	54-56 %	Roger Liao
20 dB Bandwidth & Occupied Bandwidth	21.2-24.5 °C	58-66 %	Nick Guan & Andy Chen

4.4 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Accessory of EUT

No.	Product	Brand	Model	Description
-	Alkaline Zn-MnO2 Battery	Duracell China Ltd	LR6	

Support Unit

None

4.5 Test Setup Diagram

<Radiated Spurious Emissions mode>





CN23HVZN (P15C-BLE) 001 Prüfbericht - Nr.:

Seite 13 von 25 Page 13 of 25

Test Report No.

4.6 Duty Cycle of Test Signal

Duty cycle correction factor = 20 log(Duty cycle) = 20 log (40.629/100) = -7.82





CN23HVZN (P15C-BLE) 001

Seite 14 von 25 Page 14 of 25

5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

Requirement

Use of approved antennas only

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 4.02 dBi. The antenna is a PCB antenna with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

Refer to EUT photo for details.



Prüfbericht - Nr.:

CN23HVZN (P15C-BLE) 001

Seite 15 von 25 Page 15 of 25

Test Report No.

5.1.2 Field Strength of Fundamental Emissions

Limit

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meters)
902 ~ 928 MHz	50	500
2400 ~ 2483.5 MHz	50	500
5725 ~ 5875 MHz	50	500
24 ~ 24.25 GHz	250	2500

Kind of Test Site

3m Semi-Anechoic Chamber

Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).



Prüfbericht - Nr.:

Test Report No.

CN23HVZN (P15C-BLE) 001

Seite 16 von 25 Page 16 of 25

Test Instruments

Kind of Equipment	Manufacturer	Туре	S/N	Calibration Date	Calibration
Lquipmont			Dato	Duo Dulo	
Signal Analyzer	R&S	FSV40	101509	2023/4/26	2024/4/25
Horn Antenna	ETS-Lindgren	3117	00218929	2022/11/17	2023/11/16
HF-AMP + AC source	EMCI	EM01G18GA	980635	2023/2/16	2024/2/15
HF-AMP + AC source	EMCI	EMC184045SE	980656	2023/1/6	2024/1/5
Horn Antenna	SCHWARZBECK	BBHA 9170	00890	2023/5/4	2024/5/3
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
		30 MHz ~ 1 GHz			
Receiver	R&S	ESR7	102109	2023/2/24	2024/2/23
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2023/3/31	2024/3/30
LF-AMP	Agilent	8447D	2727A05146	2023/2/16	2024/2/15
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
Below 30 MHz					
Receiver	R&S	ESR7	102109	2023/2/24	2024/2/23
Loop Antenna	SCHWARZBECK	FMZB 1519B	00215	2023/1/4	2024/1/3
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A



Prüfbericht - Nr.: CN23HVZN (F

Test Report No.

CN23HVZN (P15C-BLE) 001

Seite 17 von 25 Page 17 of 25

Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) or 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- 3. All modes of operation were investigated and the worst-case emissions are reported.
- 4. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.
- The calculation formula is expalined as follows: Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Test Results

Fundamental Frequency	Antenna Orientation	Detector Mode	Peak Power Level (dBuV/m)	Limit (dBuV/m)	Result
		Average	88.40	94.00	Pass
0.400	Horizontai	Peak	96.22	114.00	Pass
2402) (a rti a a l	Average	87.22	94.00	Pass
	vertical	Peak	95.04	114.00	Pass
	Horizontal	Average	90.07	94.00	Pass
0440		Peak	97.89	114.00	Pass
2440) (anti-ant	Average	83.16	94.00	Pass
	Vertical	Peak	90.98	114.00	Pass
		Average	90.28	94.00	Pass
0.400	Horizontal	Peak	98.10	114.00	Pass
2480) (a rti a a l	Average	84.74	94.00	Pass
	vertical	Peak	92.56	114.00	Pass

Please refer to Appendix A.



CN23HVZN (P15C-BLE) 001

Seite 18 von 25 Page 18 of 25

5.1.3 Radiated Spurious Emissions

Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits as below table, whichever is the lesser attenuation.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Kind of Test Site

3m Semi-Anechoic Chamber

Test Setup

<Radiated Emissions below 30 MHz>









Prüfbericht - Nr.:

Test Report No.

CN23HVZN (P15C-BLE) 001

Seite 20 von 25 Page 20 of 25

Test Procedures

For Radiated Emissions below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
- 2. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated Emissions above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- 3. All modes of operation were investigated and the worst-case emissions are reported.
- 4. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.
- 5. The emission levels of other frequencies (including the 10th harmonic of the highest fundamental frequency) are very lower than the limit and are not shown in the test report.



Prüfbericht - Nr.: CN23HVZN (P15C-BLE) 001

Test Report No.

Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix A.

Seite 21 von 25 Page 21 of 25



Prüfbericht - Nr.:

CN23HVZN (P15C-BLE) 001

Test Report No.

Seite 22 von 25 Page 22 of 25

5.1.4 20 dB Bandwidth

Limit

The 20 dB bandwidth shall be specified in operating frequency band.

Kind of Test Site

3m Semi-Anechoic Chamber

Test Setup

EUT	Attenuator	Spectrum Analyzer
-----	------------	-------------------

Test Instruments

Kind of	Manufacturor	Type	S/N	Calibration	Calibration	Test	Date
Equipment	Manufacturer	Type	5/17	Date	Due Date	From	Until
Spectrum Analyzer	R&S	FSV	101512	2023/02/23	2024/02/22	2023/9/4	2023/9/4

Test Procedure

- Check the calibration of the measuring instrument using either an internal calibrator or a known a. signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient b. frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.



Prüfbericht - Nr.:

Test Report No.

CN23HVZN (P15C-BLE) 001

Seite 23 von 25

Page 23 of 25

Test Results

Channel	Channel Frequency (MHz)	20 dB Bandwidth (MHz)
Low Channel	2402	1.11
Middle Channel	2440	1.12
High Channel	2480	1.13





Prüfbericht - Nr.: **CN23HVZN (P15C-BLE) 001** Seite 24 von 25 Page 24 of 25 Test Report No. 5.1.5 99% Occupied Bandwidth **Kind of Test Site** Shielded room **Test Setup** EUT Spectrum Analyzer Attenuator **Test Instruments** Calibration Test Date Kind of Calibration Manufacturer S/N Туре From Equipment Date Due Date Until Spectrum

Test Procedure

Analyzer

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1 % to 5 % of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

101512

2023/02/23

2024/02/22

2023/9/4

2023/9/4

FSV

R&S



Prüfbericht - Nr.:

Test Report No.

CN23HVZN (P15C-BLE) 001

Seite 25 von 25 Page 25 of 25

esi Nepon No.

Test Results

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)
Low Channel	2402	944.06
Middle Channel	2440	964.04
High Channel	2480	939.06



Page A1 of A11

Appendix A: Test Results of Radiated Spurious Emissions

Fundamental & Bandedge





Seite A2 von A11

Prüfbericht - Nr.: Test Report No.





Seite A3 von A11







Seite A4 von A11

Prüfbericht - Nr.: Test Report No.





Seite A5 von A11







Seite A6 von A11

Prüfbericht - Nr.:

Test Report No.



CN23HVZN (P15C-BLE) 001

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Seite A7 von A11

Page A7 of A11

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz



CN23HVZN (P15C-BLE) 001



Seite A8 von A11 Page A8 of A11

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz



CN23HVZN (P15C-BLE) 001

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Seite A9 von A11

Page A9 of A11

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

Seite A10 von A11

Seite A11 von A11 Page A11 of A11

