TEST REPORT



CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea Tel: +82-31-339-9970 Fax: +82-31-624-9501 Report No.: CTK-2022-02965 Page (1) / (43) Pages

• Name : Sony Group Corporation

∘ Address: 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan

• Date of Receipt: 2022-09-23

2. Manufacturer

Name : Sony Group Corporation

∘ Address : 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan

3. Use of Report : For FCC Conformance / ISED Conformance

4. Test Sample / Model: Wireless Noise Canceling Stereo Headset / YY2968

5. Date of Test: 2022-09-27 to 2022-10-05

6. Test Standard(method) used: FCC 47 CFR part 15 subpart C 15.247

ISED RSS-247 & RSS-Gen

7. Testing Environment: Temp.: (23 ± 1) °C, Humidity: (51 ± 3) % R.H.

8. Test Results : Compliance

9. Location of Test: Permanent Testing Lab On Site Testing

(Address: 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yong-in-si, Gyeonggi-do, Korea)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

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Approval

Ji-Hye, Kim: (Sign tue)

Technical Manager

Won-Jae, Hwang: (Signature)

Remark. This report is not related to KOLAS accreditation and relevant regulation.

2022-11-17

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REPORT REVISION HISTORY

Date	Revision	Page No
2022-11-17	Issued (CTK-2022-02965)	all

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APPENDIX A – Test Equipment Used For Tests



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1. General Product Description

1.1 Applicant Information

Company	Sony Group Corporation	
Contact Point	1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan	
Contact Person	Name: Takeshi Kobayshi E-mail: shes-qa-cs-vsqa-pc1_pses@sony.com Tel: +81-50-3750-0068 Fax: -	

1.2 Product Information

FCC ID	AK8YY2968	
ISED	409B-YY2968	
Product Description	Wireless Noise Canceling Stereo Headset	
Model name	YY2968	
Variant Model name	-	
Operating Frequency	2 402 MHz - 2 480 MHz	
RF Output Power	9.167 dBm (8.255 mW)	
Antenna Specification Antenna Specification Antenna Specification Earbuds (L) Peak Gain: -5.37 dBi Earbuds (R) Peak Gain: -7.02 dBi		
Number of channels	40	
Channel Spacing	1 MHz	
Type of Modulation	GFSK	
Power Source	DC 3.85 V (Battery)	
Hardware Rev	V1.0	
Software Rev	V1.0	

1.3 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Note Computer	HP	15-bs563TU	CND7253R6N
AC/DC Adapter	НР	HSTNN-CA40	-

1.4 Model Differences

Not applicable



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2. Accreditations

2.1 Laboratory Accreditations and Listings

Country	Agency	Registration Number
USA	FCC	805871
CANADA	ISED	8737A
KOREA	NRRA	KR0025

2.2 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.



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3. Test Specifications

3.1 Standards

Section in FCC	Section in RSS	Requirement(s)	Status (Note 1)	Test Condition
15.247(a)	RSS-247 5.2(a)	6 dB Bandwidth	С	
15.247(b)	RSS-247 5.4(d)	Maximum Output Power	С	
15.247(d)	RSS-247 5.5	Conducted Spurious emission	С	Conducted
15.247(d)	RSS-247 5.5	Unwanted Emission(Conducted)	С	
15.247(e)	RSS-247 5.2(b)	Transmitter Power Spectral Density	С	
15.209	RSS-Gen 6.13	Radiated Emissions	С	Radiated
15.207	RSS-Gen 8.8	AC Conducted Emissions	С	Line Conducted

Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable

Note 2: The data in this test report are traceable to the national or international standards.

<u>Note 3</u>: The sample was tested according to the following specification: FCC Part 15.247, ANSI C63.10-2013, RSS-247 Issue 2, RSS-GEN Issue 5



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3.2 Mode of operation during the test

The EUT is operated in a manner representative of the typical of the equipments. During at testing, system components were manipulated within the confines of typical usage to maximize each emission. All modulation modes were tests. The results are only attached worst cases.

Test Frequency

Lowest channel	Middle channel	Highest channel
2 402 MHz	2 440 MHz	2 480 MHz

Test mode

Mode	Duty Cycle		Duty Cycle Factor	
Mode	Earbuds (L)	Earbuds (R)	Earbuds (L)	Earbuds (R)
BLE 1 Mbps	85.2 %	85.2 %	0.70 dB	0.70 dB

3.3 Device Modifications

The following modifications were necessary for compliance:

Not applicable

3.4 Maximum Measurement Uncertainty

The value of the measurement uncertainty for the measurement of each parameter. Coverage factor k=2, Confidence levels of 95 %

Description	Uncertainty
Conducted RF Output Power	1.5 dB (C.L.: Approx. 95 %, <i>k</i> = 2)
Power Spectral Density	1.5 dB (C.L.: Approx. 95 %, <i>k</i> = 2)
Occupied Bandwidth	0.1 MHz (C.L.: Approx. 95 %, <i>k</i> = 2)
Unwanted Emission(conducted)	3.0 dB (C.L.: Approx. 95 %, k = 2)
Radiated Emissions ($f \le 1 \text{ GHz}$)	3.88 dB (C.L.: Approx. 95 %, $k = 2$)
Radiated Emissions (f > 1 GHz)	4.62 dB (C.L.: Approx. 95 %, k = 2)
Line Conducted Emission	2.06 dB (C.L.: Approx. 95 %, k = 2)

3.5 Test Software

Conducted Test	Ics Pro Ver. 6.0.3
Radiated Test	EP5RE Ver. 6.0.1.0, ES10 Ver. 10.001
Line Conducted Test	EMC32 Ver. 8.50.0



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4. Technical Characteristic Test

4.1 6dB Bandwidth

Test Procedures

KDB 558074 - Section 8.2 ANSI C63.10-2013 - Section 11.8.2 RSS-Gen - Section 6.7

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test Procedures

ANSI C63.10-2013 - Section 6.9 RSS-Gen - Section 6.7

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

<u>Test Settings</u>:

Center frequency = the highest, middle and the lowest channels

a) RBW = 100 kHz

b) $VBW \ge 3 \times RBW$

c) Detector = peak

d) Trace mode = Max hold

- e) Sweep = auto couple
- f) Allow trace to fully stabilize
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Minimum Standard:

6 dB Bandwidth > 500kHz



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Test Data:

EUT	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Result
	2 402	0.663	1.048	Complies
Earbuds	2 440	0.668	1.048	Complies
(L)	2 480	0.663	1.051	Complies
Caulan da	2 402	0.671	1.051	Complies
Earbuds	2 440	0.666	1.048	Complies
(R)	2 480	0.665	1.050	Complies

See next pages for actual measured spectrum plots.

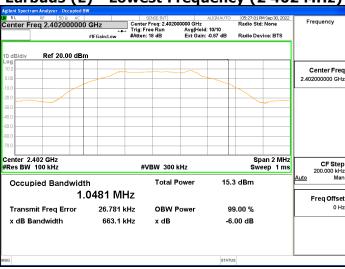


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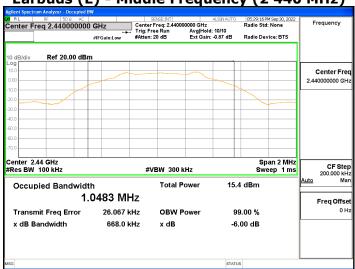
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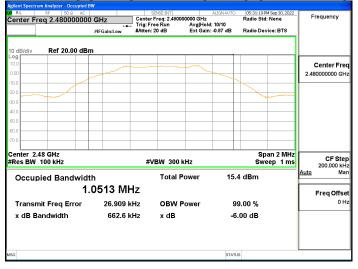




Earbuds (L) - Middle Frequency (2 440 MHz)



Earbuds (L) - Highest Frequency (2 480 MHz)



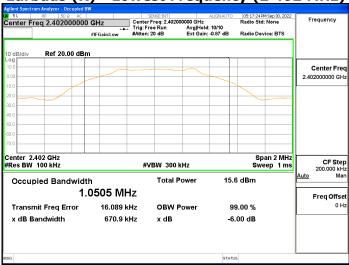


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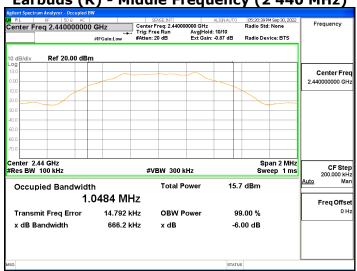
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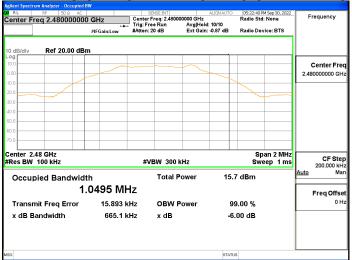




Earbuds (R) - Middle Frequency (2 440 MHz)



Earbuds (R) - Highest Frequency (2 480 MHz)





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4.2 Maximum peak Conducted Output Power

Test Procedures

KDB 558074 - Section 8.3.1.1 ANSI C63.10-2013 - Section 11.9.1.1 RSS-Gen - Section 6.12

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

Test Settings:

Center frequency = the highest, middle and the lowest channels

a) RBW ≥ DTS bandwidth

b) VBW \geq 3 x RBW

c) span \geq 3 x RBW

d) Sweep time = auto couple

e) Detector = peak

f) Trace mode= max hold

- g) Allow trace to fully stabilize
- h) Use peak marker function to determine the peak amplitude level.

Limit:

Maximum Output Power < 1 W (30 dBm)

Test Data:

EUT	Frequency	ak Conducted Power	Result	
	(MHz)	(dBm)	(mW)	
Faula da	2 402	8.748	7.495	Complies
Earbuds	2 440	8.944	7.842	Complies
(L)	2 480	8.930	7.816	Complies
Faula da	2 402	9.110	8.147	Complies
Earbuds	2 440	9.138	8.200	Complies
(R)	2 480	9.167	8.255	Complies

See next pages for actual measured spectrum plots.

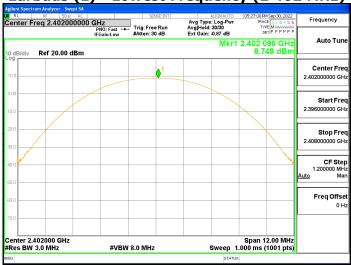


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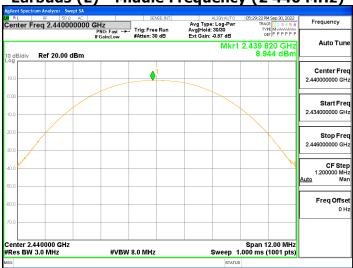
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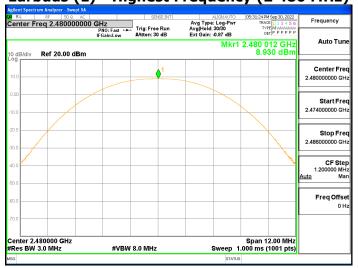




Earbuds (L) - Middle Frequency (2 440 MHz)



Earbuds (L) - Highest Frequency (2 480 MHz)



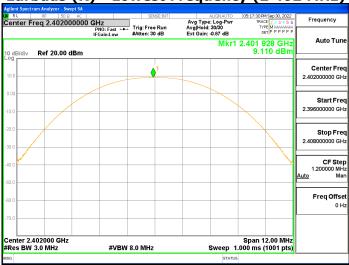


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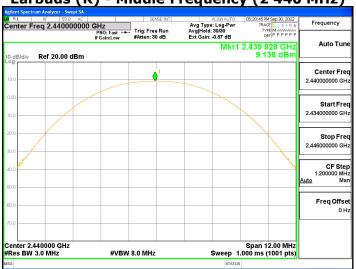
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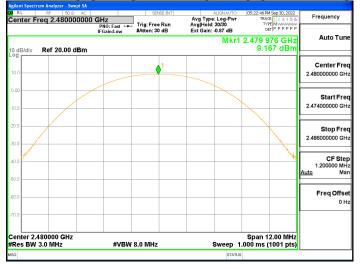




Earbuds (R) - Middle Frequency (2 440 MHz)



Earbuds (R) - Highest Frequency (2 480 MHz)





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4.3 Transmitter Power Spectral Density

Test Procedures

KDB 558074 - Section 8.4 ANSI C63.10-2013 - Section 11.10.2

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance.

Test Settings:

Center frequency = the highest, middle and the lowest channels

a) RBW : $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$

b) $VBW \ge 3 \times RBW$

c) span \geq 1.5 x DTS bandwidth

d) Sweep time = auto couple

e) Detector = peak

f) Trace mode= max hold

g) Allow trace to fully stabilize

h) Use the peak marker function to determine the maximum amplitude level within the RBW.

Limit:

Power Spectral Density < 8dBm @ 3 kHz BW

Test Data:

EUT	Frequency	Power Spectral Density	Result
EUT	(MHz)	(dBm)	Result
Fawburda	2 402	-7.438	Complies
Earbuds	2 440	-7.226	Complies
(L)	2 480	-7.271	Complies
Caula d a	2 402	-7.061	Complies
Earbuds	2 440	-7.128	Complies
(R)	2 480	-6.960	Complies

See next pages for actual measured spectrum plots.

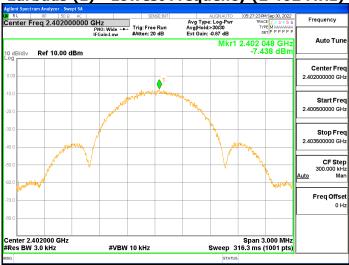


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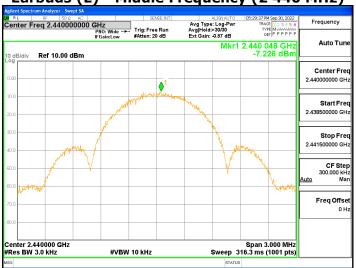
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Earbuds (L) - Middle Frequency (2 440 MHz)



Earbuds (L) - Highest Frequency (2 480 MHz)



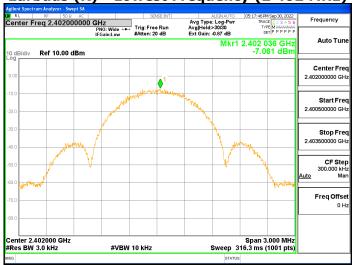


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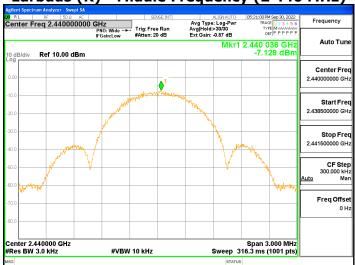
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Earbuds (R) - Middle Frequency (2 440 MHz)



Earbuds (R) - Highest Frequency (2 480 MHz)





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4.4 Conducted Spurious emission

Test Procedures

KDB 558074 - Section 8.5 ANSI C63.10-2013 - Section 11.11.3 RSS-Gen - Section 6.13

The Unwanted emission from the EUT were measured according to the dictates PKPSD measurement procedure in section 11.11 of ANSI C63.10-2013.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

Test Settings:

Center frequency = the highest, middle and the lowest channels

a) RBW = 100 kHz

b) $VBW \ge 3 \times RBW$

c) Detector = peak

d) Sweep time = auto couple

- e) Trace mode= max hold
- f) Allow trace to fully stabilize
- g) Use the peak marker function to determine the maximum amplitude level.

Limit:

Emission level < 20 dBc

Test results: Complies

- All conducted emission in any 100kHz bandwidth outside of the spread spectrum band was at least 20dB lower than the highest in-band spectral density. Therefore the applying equipment meets the requirement.

See next pages for actual measured spectrum plots.



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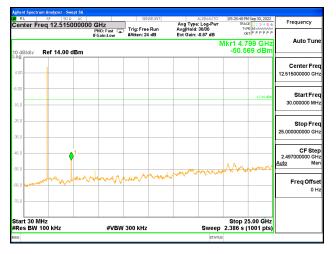
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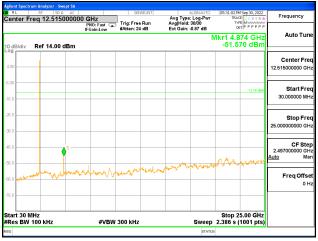
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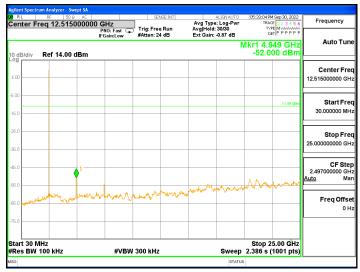
Test Mode: Earbuds (L)











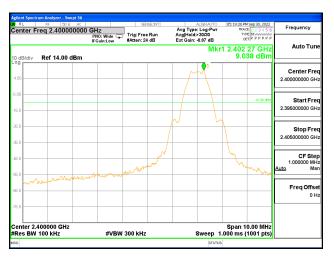


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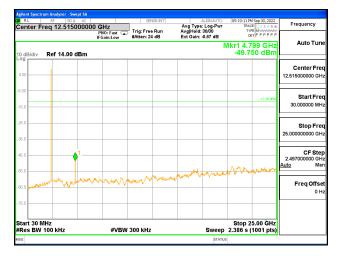
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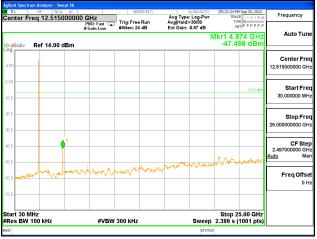
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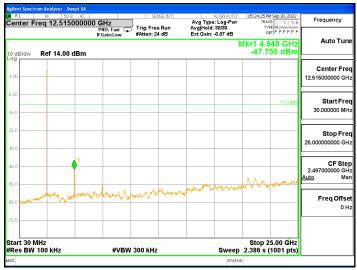
Test Mode: Earbuds (R)













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4.5 Radiated Emission

Test	I O	ca	tı	റ	n
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 \boxtimes 10 m SAC (test distance : \square 10 m, \boxtimes 3 m) \boxtimes 3 m SAC (test distance : 3 m)

Test Procedures

KDB 558074 - Section 8.5, 8.6 ANSI C63.10-2013 - Section 11.11, 11.12 RSS-Gen - Section 6.13

- 1) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- 2) In the frequency range above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) and Horn Test Antenna(above 1 GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is carried from 1m to 4m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.

Test Settings:

Frequency Range = 9 kHz ~ 1 GHz

- a) RBW = 100 kHz for f < 1 GHz, 9 kHz for f < 30 MHz
- b) VBW ≥ RBW
- c) Detector = CISPR Quasi-peak

d) Sweep time = auto couple

- Peak

Frequency Range = 1 GHz ~ 25 GHz (2.4 GHz 10th harmonic)

- a) RBW = 1 MHz
- b) VBW \geq 3 x RBW

c) Detector = Peak

d) Sweep time = auto

e) Trace mode = max hold

- Average (duty cycle ≥ 98%)

Frequency Range = 1 GHz ~ 25 GHz (2.4 GHz 10th harmonic)

- a) RBW = 1 MHz
- b) VBW \geq 3 x RBW

c) Detector = RMS

d) Sweep time = auto

e) Averaging type = power (i.e., RMS)

f) Trace mode = average (at least 100 traces)



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- Average (duty cycle < 98%, duty cycle variations are less than $\pm 2\%$)

Frequency Range = 1 GHz \sim 25 GHz (2.4 GHz 10^{th} harmonic)

a) RBW = 1 MHz

b) VBW \geq 3 x RBW

c) Detector = RMS

d) Sweep time = auto

e) Averaging type = power (i.e., RMS)

f) Trace mode = average (at least 100 traces)

A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 % duty cycle.

If power averaging (RMS) mode, then the applicable correction factor is

10 $\log(1/x)$, where x is the duty cycle.

Took Mode	Duty Cycle Factor			
Test Mode	Earbuds (L)	Earbuds (R)		
BLE 1 Mbps	0.70 dB	0.70 dB		

Limit:

FCC Part 15 § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	MHz	MHz	GHz
0.09-0.11	8.37626-8.38675	73-74.6	399.9-410	2690-2900	10.6-12.7
¹ 0.495-0.505	8.41425-8.41475	74.8-75.2	608-614	3260-3267	13.25-13.4
2.1735-2.1905	12.29-12.293	108-121.94	960-1240	3332-3339	14.47-14.5
4.125-4.128	12.51975-12.52025	123-138	1300-1427	3345.8-3358	15.35-16.2
4.17725-4.17775	12.57675-12.57725	149.9-150.05	1435-1626.5	3600-4400	17.7-21.4
4.20725-4.20775	13.36-13.41	156.52475- 156.52525	1645.5-1646.5	4500-5150	22.01-23.12
6.215-6.218	16.42-16.423	156.7-156.9	1660-1710	5350-5460	23.6-24
6.26775-6.26825	16.69475-16.69525	162.0125-167.17	1718.8-1722.2	7250-7750	31.2-31.8
6.31175-6.31225	16.80425-16.80475	167.72-173.2	2200-2300	8025-8500	36.43-36.5
8.291-8.294	25.5-25.67	240-285	2310-2390	9000-9200	² Above 38.6
8.362-8.366	37.5-38.25	322-335.4	2483.5-2500	9300-9500	

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

§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown is Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

² Above 38.6



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FCC Part 15 § 15.209 (a) 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 :

Except when the requirements applicable to a given device state otherwise, emissions from licence-exempt transmitters shall comply with the field strength limits shown in Table 2 Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission.

Table 2. General Field Strength Limits for Licence-Exempt Transmitters

Frequency(MHz)	Field Strength uV/m@3m	Field Strength dBuV/m@3m	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705-30	30	-	30
30-88	100**	40	3
88-216	150**	43.5	3
216-960	200**	46	3
Above 960	500	54	3

^{**} Except as provided in 15.209(g).fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

Note:

- 1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- For above 1 GHz, limit field strength of harmonics: 54 dBuV/m@3m (AV) and 74 dBuV/m@3m (PK)

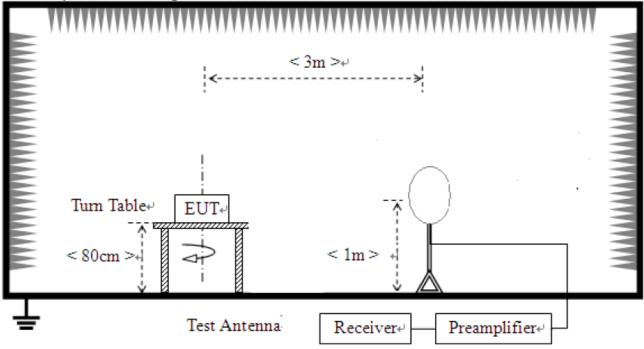


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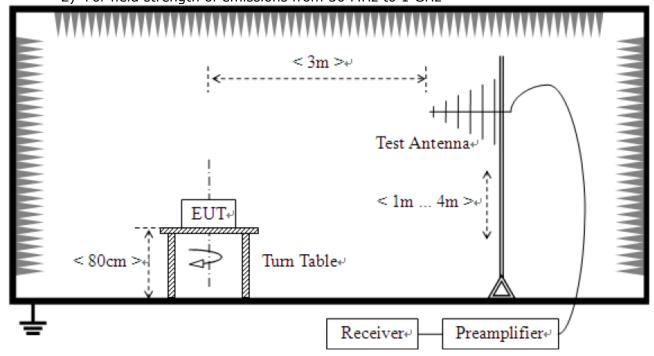
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Test Setup:

1) For field strength of emissions from 9 kHz to 30 MHz



2) For field strength of emissions from 30 MHz to 1 GHz

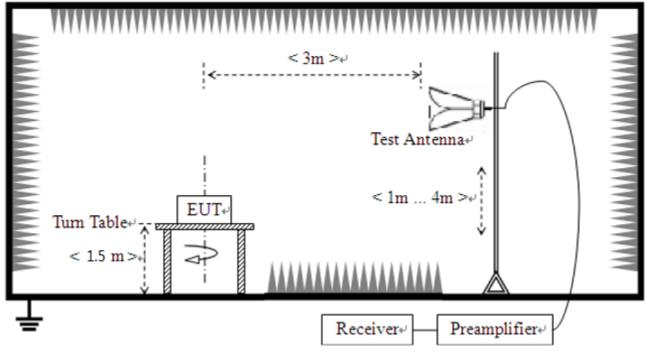




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3) For field strength of emissions above 1 GHz





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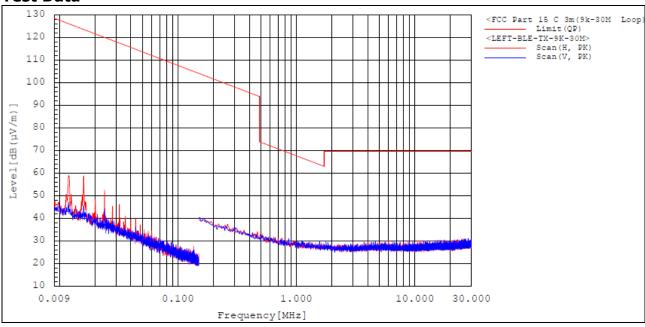
Test results

1) 9 kHz to 30 MHz

Test mode: Earbuds (L), Transmitter (Worst Case)

The requirements are:

Test Data



Frequency [MHz] (P)	Reading [dBuV]	c.f [dB(1/m)]	Level [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]
---------------------	-------------------	------------------	---------------------	---------------------	-------------

The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.

Remark:

- 1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
- 2. Result = Reading + c.f(Correction factor)
- 3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
- 4. This data is the Peak(PK) value.



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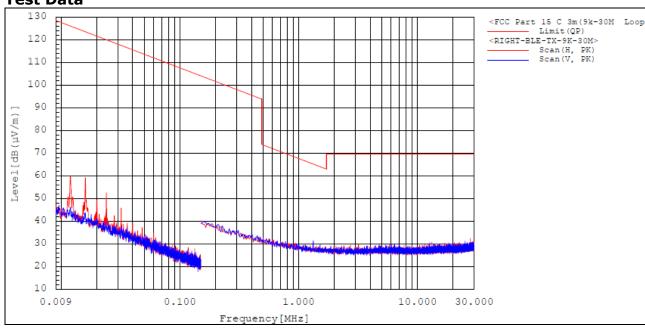
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Test mode: Earbuds (R), Transmitter (Worst Case)

The requirements are:

Test Data



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	
--------------------	-----	-------------------	------------------	---------------------	---------------------	-------------	--

The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.

Remark:

- 1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
- 2. Result = Reading + c.f(Correction factor)
- 3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
- 4. This data is the Peak(PK) value.



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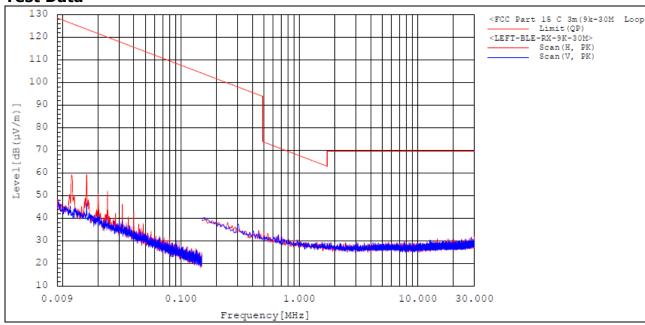
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Test mode: Earbuds (L), Receiver (Worst Case)

The requirements are:

Test Data



Frequency (P) Reading [dBuV	-	Level Limit B(uV/m)] [dB(uV/m)]	Margin [dB]
-----------------------------	----------	-------------------------------------	-------------

The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.

Remark:

- 1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
- 2. Result = Reading + c.f(Correction factor)
- 3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
- 4. This data is the Peak(PK) value.



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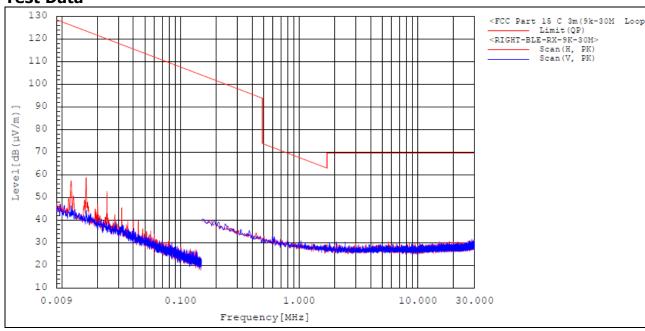
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Report No.: CTK-2022-02965 Page (29) / (43) Pages

Test mode : Earbuds (R), Receiver (Worst Case)

The requirements are:

Test Data



Frequency	Reading	c.f	Level	Limit	Margin [dB]
[MHz] (P)	[dBuV]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	

The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.

Remark:

- 1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
- 2. Result = Reading + c.f(Correction factor)
- 3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
- 4. This data is the Peak(PK) value.



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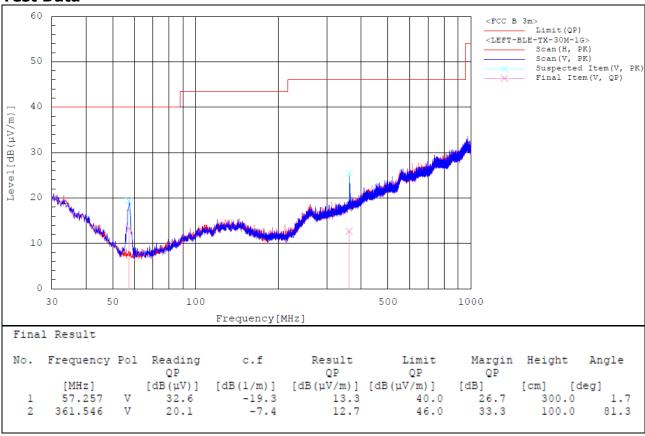
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2) 30 MHz to 1 GHz

Test mode: Earbuds (L), Transmitter (Worst Case)

The requirements are:

Test Data



Remark:

- 1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
- 2. Result = Reading + c.f(Correction factor)
- 3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator Amp Gain



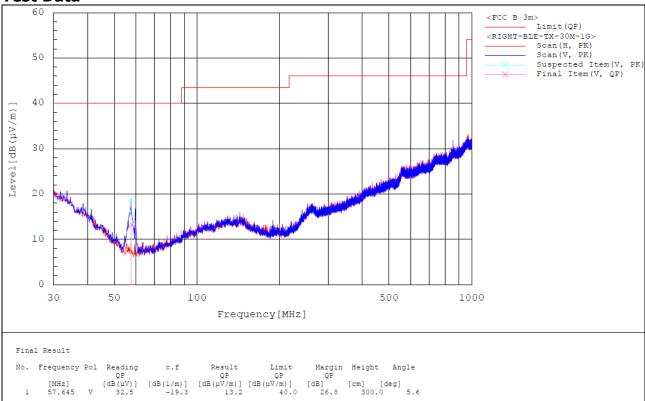
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Test mode: Earbuds (R), Transmitter (Worst Case)

The requirements are:

Test Data



Remark:

- 1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
- 2. Result = Reading + c.f(Correction factor)
- 3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator Amp Gain



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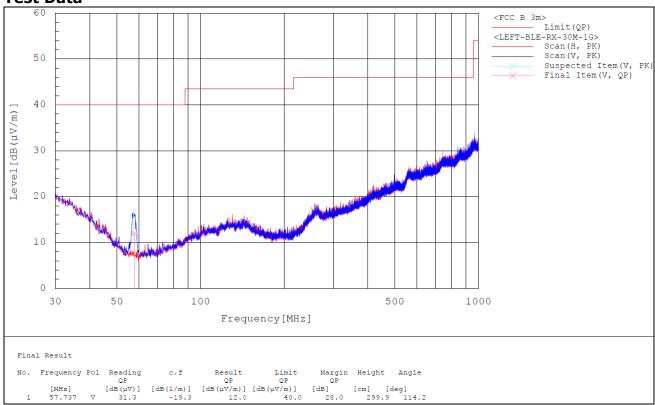
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Test mode : Earbuds (L), Receiver (Worst Case)

The requirements are:

Test Data



Remark:

- 1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
- 2. Result = Reading + c.f(Correction factor)
- 3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator Amp Gain



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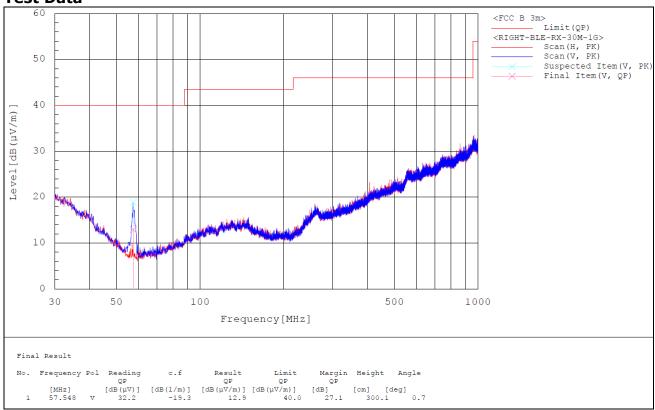
Fax: +82-31-624-9501

Report No.: CTK-2022-02965 Page (33) / (43) Pages

Test mode : Earbuds (R), Receiver (Worst Case)

The requirements are:

Test Data



Remark:

- 1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
- 2. Result = Reading + c.f(Correction factor)
- 3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator Amp Gain



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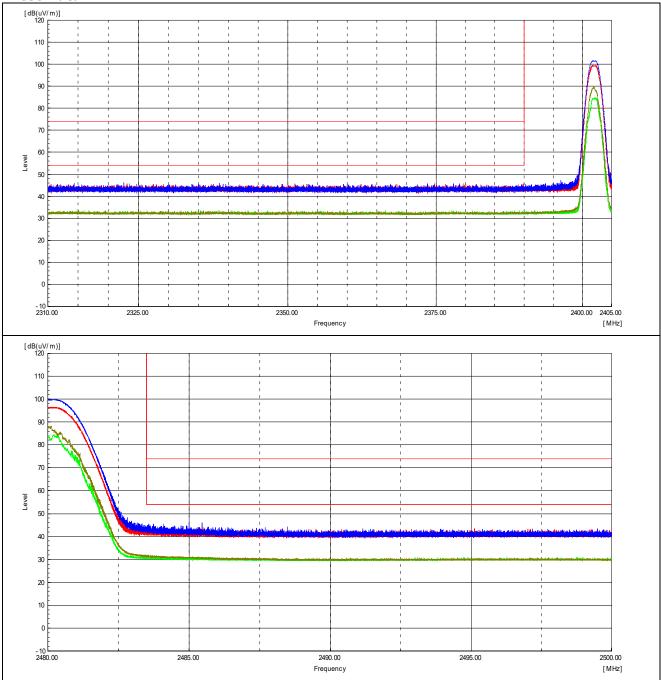
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3) above 1 GHz

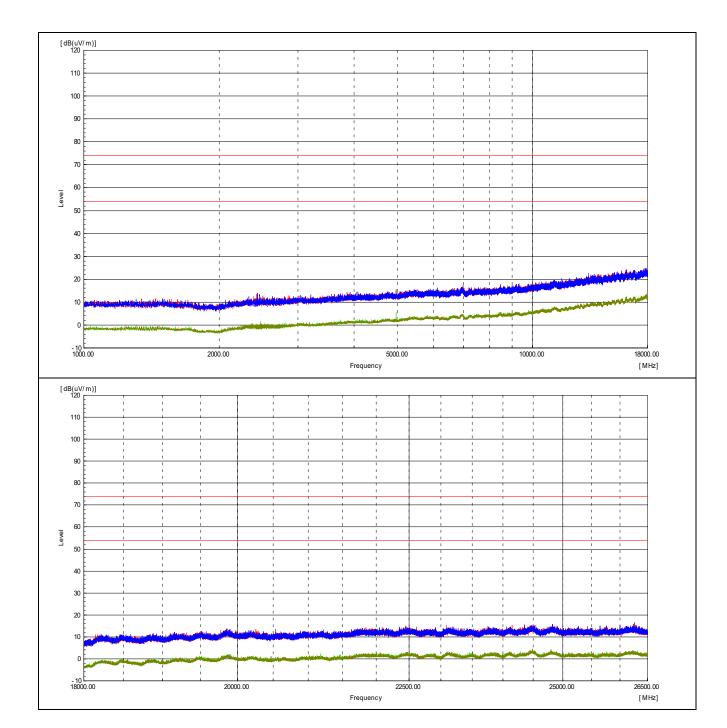
The requirements are:







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Test mode: Earbuds (L), Transmitter

Lowest channel (2 402 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
4 803.81	Ι	50.7	2.1		52.8		74.0		21.2		Peak
4 804.01	Ι	39.6	2.1	0.7		42.4		54.0		11.6	Average
4 803.83	>	48.1	2.1		50.2		74.0		23.8		Peak
4 804.11	>	37.8	2.1	0.7		40.6		54.0		13.4	Average

Middle channel (2 440 MHz)

		iaiiiici	(2 1101	···- <i>,</i>							
Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
4 879.98	Н	49.7	2.1		51.8		74.0		22.2		Peak
4 880.15	Ι	39.9	2.1	0.7		42.7		54.0		11.3	Average
4 879.97	٧	48.4	2.1		50.5		74.0		23.5		Peak
4 880.01	>	37.5	2.1	0.7		40.3		54.0		13.7	Average

Highest channel (2 480 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
4 959.85	Н	48.7	2.8		51.5		74.0		22.5		Peak
4 959.85	Н	38.1	2.8	0.7		41.6		54.0		12.4	Average
4 959.72	٧	47.5	2.8		50.3		74.0		23.7		Peak
4 959.98	٧	36.4	2.8	0.7		39.9		54.0		14.1	Average

Remarks

- 1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
- 2. Peak Result = Reading + c.f(Correction factor) Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor

3. Correction factor = Antenna factor + Cable loss - Amp Gain



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Test mode: Earbuds (R), Transmitter

Lowest channel (2 402 MHz)

LOWCS	Lowest thanner (2 402 Phiz)										
Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	ΡĶ	Margin AV [dB]	Note
4 803.83	Н	48.7	2.1		50.8		74.0		23.2		Peak
4 804.04	Н	37.4	2.1	0.7		40.2		54.0		13.8	Average
4 804.17	٧	47.7	2.1		49.8		74.0		24.2		Peak
4 803.94	٧	37.3	2.1	0.7		40.1		54.0		13.9	Average

Middle channel (2 440 MHz)

		iaiiiici	(2 1101	···- <i>)</i>							
Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
4 880.29	Н	48.1	2.1		50.2		74.0		23.8		Peak
4 880.11	Ι	38.8	2.1	0.7		41.6		54.0		12.4	Average
4 879.98	٧	49.2	2.1		51.3		74.0		22.7		Peak
4 880.04	>	39.4	2.1	0.7		42.2		54.0		11.8	Average

Highest channel (2 480 MHz)

9 (= 100 :=)											
Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
4 959.73	Н	46.9	2.8		49.7		74.0		24.3		Peak
4 960.02	Τ	36.2	2.8	0.7		39.7		54.0		14.3	Average
4 959.75	>	47.6	2.8		50.4		74.0		23.6		Peak
4 960.00	٧	37.4	2.8	0.7		40.9		54.0		13.1	Average

Remarks

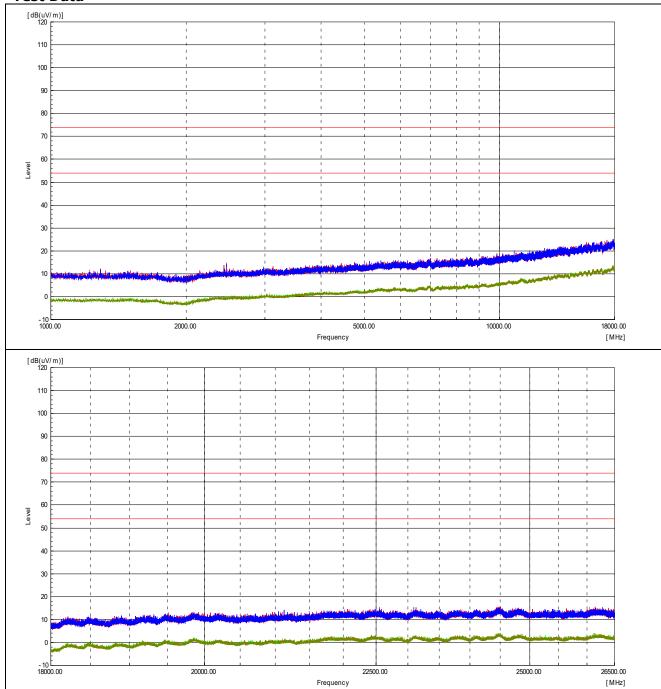
- 4. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
- 5. Peak Result = Reading + c.f(Correction factor)
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
- 6. Correction factor = Antenna factor + Cable loss Amp Gain



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Test mode: Receiver (Worst Case)

Test Data





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Test mode: Earbuds (L), Receiver (Worst Case)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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The emissions above 1 GHz were 20 dB lower than the limit.

Test mode: Earbuds (R), Receiver (Worst Case)

Frequency [MHz]	(P) Reading c.f [dBuV] [dB(1/m)]	Duty Cycle Factor [dB]	PK Level AV m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note	
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The emissions above 1 GHz were 20 dB lower than the limit.

Remarks

- 1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
- 2. Peak Result = Reading + c.f(Correction factor) Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
- 3. Correction factor = Antenna factor + Cable loss Amp Gain

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4.6 AC Conducted Emissions

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

Test Procedures

ANSI C63.10-2013 - Section 6.2 RSS-Gen - Section 8.8

The EUT was placed on a non-metallic table 0.8m above the metallic, grounded floor and 0.4m from the reference ground plane wall. The distance to other metallic surfaces was at least 0.8m.

Amplitude measurements were performed with a quasi-peak detector and an average detector.

Limit

- 15.207(a)

15:207 (u)	·							
Fraguency (MHz)	Conducted Limit (dBuV)							
Frequency (MHz)	Quasi-peak	Average**						
0.15 ~ 0.5	66 to 56*	56 to 46*						
0.5 ~ 5	56	46						
5 ~ 30	60	50						

^{*} The level decreases linearly with the logarithm of the frequency.

Test Results

The requirements are:

^{**} A linear average detector is required.



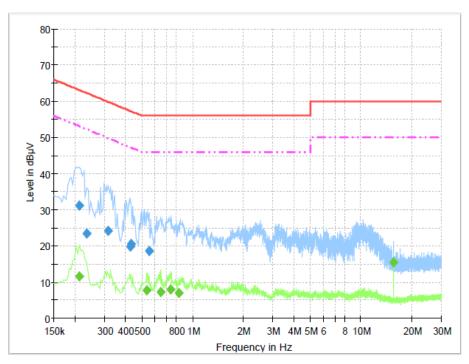
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Test Data

[LINE]

(with EC)3CE_Class B_L1



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.213000	31.3	1000.0	9.000	On	L1	9.9	31.8	63.1
0.235500	23.5	1000.0	9.000	On	L1	9.8	38.7	62.3
0.316500	24.1	1000.0	9.000	On	L1	9.9	35.7	59.8
0.429000	19.9	1000.0	9.000	On	L1	10.0	37.4	57.3
0.433500	20.4	1000.0	9.000	On	L1	10.0	36.8	57.2
0.550500	18.7	1000.0	9.000	On	L1	10.0	37.3	56.0

Final Result 2

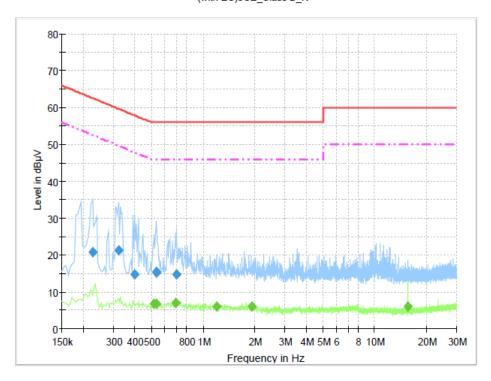
Frequency (MHz)	CAverage (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
((32,217)	(ms)	()			()	()	()
0.213000	11.6	1000.0	9.000	On	L1	9.9	41.5	53.1
0.532500	7.7	1000.0	9.000	On	L1	10.0	38.3	46.0
0.649500	7.2	1000.0	9.000	On	L1	10.0	38.8	46.0
0.739500	8.1	1000.0	9.000	On	L1	10.0	37.9	46.0
0.829500	7.0	1000.0	9.000	On	L1	9.9	39.0	46.0
15.697500	15.6	1000.0	9.000	On	L1	10.5	34.4	50.0



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[NEUTRAL] (with EC)3CE_Class B_N



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.226500	20.8	1000.0	9.000	On	N	9.8	41.8	62.6
0.321000	21.3	1000.0	9.000	On	N	10.0	38.4	59.7
0.397500	14.7	1000.0	9.000	On	N	10.1	43.2	57.9
0.532500	15.3	1000.0	9.000	On	N	10.1	40.7	56.0
0.537000	15.5	1000.0	9.000	On	N	10.1	40.5	56.0
0.699000	14.7	1000.0	9.000	On	N	10.0	41.3	56.0

Final Result 2

_	mia ito	Juic E							
ſ	Frequency	CAverage	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
ı	(MHz)	(dBµV)	Time	(kHz)			(dB)	(dB)	(dBµV)
L			(ms)						
	0.519000	6.9	1000.0	9.000	On	N	10.1	39.1	46.0
	0.537000	6.8	1000.0	9.000	On	N	10.1	39.2	46.0
	0.694500	7.0	1000.0	9.000	On	N	10.0	39.0	46.0
	1.198500	6.0	1000.0	9.000	On	N	9.9	40.0	46.0
	1.918500	5.9	1000.0	9.000	On	N	9.9	40.1	46.0
	15.693000	6.0	1000.0	9.000	On	N	10.6	44.0	50.0



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APPENDIX A – Test Equipment Used For Tests

	Name of Equipment	Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date
1	Signal Analyzer	Agilent	N9020A	MY46471102	2022-01-13	2023-01-13
2	Signal Generator	Rohde & Schwarz	SMB100A	175528	2022-03-25	2023-03-25
3	EMI TEST RECEIVER	Rohde & Schwarz	ESW44	102039	2022-05-04	2023-05-04
4	BILOG ANTENNA	TESEQ	CBL6111D	60654	2021-09-03	2023-09-03
5	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-125	2022-04-15	2024-04-15
6	6dB Attenuator	PASTERNACK	PE7AP006-06	L20210504000023	2022-08-10	2023-08-10
7	AMPLIFIER	SONOMA INSTRUMENT	310N	411011	2022-08-10	2023-08-10
8	Spectrum Analyzer	R&S	FSV40	101574	2022-01-12	2023-01-12
9	PRE AMPLIFIER	HP	8449B	3008A00620	2022-05-10	2023-05-10
10	Double Ridged Guide Antenna	ETS-Lindgren	3115	00078895	2022-04-14	2023-04-14
11	HORN ANTENNA	SCHWARZBECK	BBHA9170	1153	2021-11-16	2022-11-16
11				1133	2022-10-31	2023-10-31
12	LOW NOISE AMPLIFIER	TESTEK	TK-PA1840H	210124-L	2021-11-15	2022-11-15
12					2022-11-09	2023-11-09
13	Band Reject Filter	Micro Tronics	BRM50702	G233	2022-01-07	2023-01-07
14	EMI Test Receiver	R&S	ESCI3	100032	2022-01-11	2023-01-11
15	LISN	R&S	ENV216	101236	2022-10-17	2023-10-17

	Cable	Manufacturer	Model No.	Serial No.	Check Date
1	RF Cable (Conducted)	Junkosha Inc.	MWX221	1512S151	2022-09-30
2	RF Cable (Line Conducted)	Canare Corporation	L-5D2W	N/A	2022-04-12
3	RF Cable (9 kHz - 1 GHz Radiated)	HUBER+SUHNER	SUCOFLEX 104	MY27558/4	2022-09-21
4	RF Cable (9 kHz - 1 GHz Radiated)	HUBER+SUHNER	L-5D2W	N/A	2022-09-21
5	RF Cable (1 GHz - 18 GHz Radiated)	Junkosha Inc.	MWX221	2008S246	2022-04-14
6	RF Cable (1 GHz - 18 GHz Radiated)	Rosenberger	NONE	1520.9927.00	2022-04-14
7	RF Cable (1 GHz - 18 GHz Radiated)	Sensorview Co., LTD	13A26	TPC2204060007	2022-04-14
8	RF Cable (18 GHz - 26.5 GHz Radiated)	HUBER+SUHNER	SUCOFLEX 102	MY2372/2	2022-04-14
9	RF Cable (18 GHz - 26.5 GHz Radiated)	HUBER+SUHNER	SUCOFLEX 102	MY2371/2	2022-04-14
10	RF Cable (18 GHz - 40 GHz Radiated)	Sensorview Co., LTD	9A40	TP210713-001	2022-04-14