

3701, 40, Simin-daero 365beon-gil,
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Report No.: KES-EM-22T0431 Page (1) of (27)

EMC TEST REPORT

Test Report No. : KES-EM-22T0431

Date of Issue : Jun. 02, 2022

Product name : Bluetooth Earbud

Model/Type No. : TONE-TF8Q

Variant Model : TONE-UTF8Q, TONE-DTF8Q

Applicant : LG Electronics USA, Inc.

Applicant Address : 111 Sylvan Ave, North Building, Englewood Cliffs, New Jersey,

United States

Manufacturer : LG Electronics Inc.

Manufacturer Address : 222 LG-ro Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, Korea

FCC ID : ZNFTONETF8Q

IC ID : 2703C-TONETF8Q

Date of Receipt : May. 18, 2022

Test date : May. 25, 2022

EMC Test Engineer

Test Results : 🛛 In Compliance 🗌 Not in Compliance

Tested by Reviewed by

Dae Hyun, Kim Dong Hun, Jang

EMC Technical Manager



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Report No.: KES-EM-22T0431 Page (2) of (27)

REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Jun. 02, 2022	KES-EM-22T0431	Issued
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TABLE OF CONTENTS

1.0	General Product Description	4
1.1	Test Voltage & Frequency	
1.2	Variant Model Differences	
1.3	Device Modifications	5
1.4	Equipment Under Test	5
1.5	Support Equipments	5
1.6	External I/O Cabling	6
1.7	EUT Operating Mode(s)	
1.8	Configuration	
1.9	Remarks when standards applied	
1.10	Calibration Details of Equipment Used for Measurement	8
1.11	Test Facility	8
1.12	Measurement Procedure	8
1.13	Laboratory Accreditations and Listings	9
2.0	Test Regulations	10
2.1	Conducted Emissions at Mains Power Ports	11
2.2	Radiated Electric Field Emissions(Below 1 Hz)	12
2.3	Radiated Electric Field Emissions (Above 1 GHz)	13
APPE	NDIX A - TEST DATA	
	Conducted Emissions at Mains Power Ports	
R	Radiated Electric Field Emissions(Below 1 બ्रि)	16
R	Radiated Electric Field Emissions(Above 1 (Hz)	20
	NDIX B - Test Setup Photos and Configuration	
	Radiated Electric Field Emissions(Below 1 @Hz)	
	Radiated Electric Field Emissions(Above 1 GHz)	
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1.0 General Product Description

Main Specifications of EUT are:

Item	Details
Communication Method	Bluetooth
Power	Charging: DC 5 V / 136mA Operating: DC 3.7 V (Battery) / 68 mAh (Lithium Ion Battery)
Size	(24.8 x 23.5 x 26.7) mm
Weight	5.1 g
Port	2 Pin (Charge)



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Report No.: KES-EM-22T0431 Page (5) of (27)

1.1 Test Voltage & Frequency

Unless indicated otherwise on the individual data sheet or test results, the test voltage and frequency was as indicated below.

1.2 Variant Model Differences

TONE-UTF8Q: The model is identical to the basic model except for the Marketing area (KOREA, United Kingdom, Australia) and model name.

TONE-DTF8Q: The model is identical to the basic model except for the Marketing area (Germany) and model name.

1.3 Device Modifications

Not applicable

1.4 Equipment Under Test

Description	Description Model Number S		Manufacturer	Remarks
Bluetooth Earbud	TONE-TF8Q	-	LG Electronics Inc.	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
AC/DC Adapter	MCS-02KR2	-	Weihai Sunlin Electronics Co.,Ltd	-
Bluetooth Earbud (Cradle)	TONE-TF8QC	-	LG Electronics Inc.	FCC ID: ZNFTONETF8QC IC ID: 2703C- TONETF8QC
USB DIGITAL TESTER	J7	-	-	-
SmartPhone	MT9J2KH/A	-	Apple	-



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1.6 External I/O Cabling

■ Charge Mode

Start		END		Cable Spec.	
Description I/O Port		Description	I/O Port	Length	Shield
Bluetooth Earbud (EUT)	Charge Port	Bluetooth Earbud (Cradle)	Charge Port	-	-
Bluetooth Earbud (Cradle)	USB C Type	USB DIGITAL TESTER	USB	1.0	U
USB DIGITAL TESTER	USB	AC/DC Adapter	USB	-	-

^{*} Unshielded = U, Shielded = S

■ Operating Mode

Start		END		Cable Spec.	
Description I/O Port		Description	I/O Port	Length	Shield
Bluetooth Earbud (EUT)	Wireless	SmartPhone	Wireless	-	-

^{*} Unshielded = U, Shielded = S

1.7 EUT Operating Mode(s)

Test mode	operating
Charge	Tested while USB DIGITAL TESTER and Charge Cradle charge LED checking the normal state of charge.
Operating	Connect EUT and SmartPhone wirelessly. It was tested while confirming that the sound from EUT was normally produced.

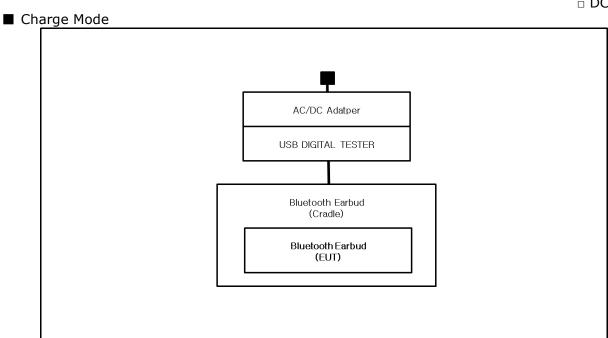
EUT Test operating S/W				
Name Version Manufacture Company				
-	-	-		



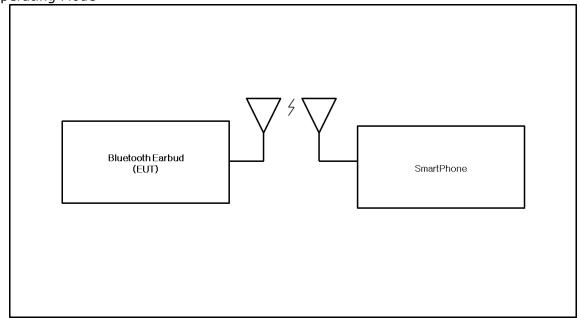
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1.8 Configuration

■ AC Main
□ DC Main



■ Operating Mode



EUT - SmartPhone : Bluetooth



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Report No.: KES-EM-22T0431 Page (8) of (27)

1.9 Remarks when standards applied

1.10 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.

1.11 Test Facility

The measurement facility is located at 473-21 Gayeo-ro, Yeoju-si, Gyeonggi-do, 12658, Korea. The sites are constructed in conformance with the requirements of ANSI C63.4a-2017 and CISPR 16-1-4:2019

1.12 Measurement Procedure

- Conducted Emissions

The conducted emission levels were measured on each current-carrying line with the spectrum analyzer operating in the CISPR quasi-peak mode (or peak mode if applicable). The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. If the conducted emission exceed the average limit with the instrument set to the quasi-peak mode, the measurements are made in the average mode. The emission spectrum was scanned from 150 kHz to 30 MHz. The highest emission amplitudes relative to the appropriate limits were measured and have been recorded. Quasi-peak readings are distinguished with a "QP".

- Radiated Electric Field Emissions

The test was done at a SEMI ANECHOIC CHAMBER with quasi-peak detector. The final test data was measured using a Quasi-Peak detector below $1^{\oplus 2}$ at 10 m or 3 m distance and a Peak and Average detector above $1^{\oplus 2}$ at 3 m distance. Test was proceeded worst case test mode and cable configuration.

Measurements were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was varied from 1 m to 4 m and the EUT was rotated 360° to find the maximum emitting point for each frequency.

Measurement procedures was In accordance with ANSI C63.4-2014 7.3.3, 7.3.4, 8.3.1.1, 8.3.1.2, 8.3.2.1, 8.3.2.2



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1.13 Laboratory Accreditations and Listings

Laboratory Accreditations and Listings							
Country	Agency	Scope of Accreditation	Logo				
KOREA RRA		EMI (3 m & 10 m Semi-Aechoic Chamber ,10 m Open Area and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	KR0100				
International	KOLAS	EMI (3 m & 10 m Semi-Aechoic Chamber , and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	TESTING NO. KTA89 KT489				
USA	FCC	3 m & 10 m Semi-Aechoic Chamber, 10 m Open Area and Conducted test site to perform FCC Part 15/18 measurements.	FC KR0100				
Canada	ISED	3 m & 10 m Semi-Aechoic Chamber and Conducted test site	23298-1				
JAPAN	VCCI	Mains Ports Conducted Interference Measurement, Telecommunication Ports Conducted Disturbance Measurement and Radiation 10 meter site, Facility for measuring radiated disturbance above 1	R-20056, C-20036 T-20040, G-20057				
Europe	TÜV SÜD	EMI (3 m & 10 m Semi-Aechoic Chamber , 10 m Open Area and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	CARAT 001633 0004				



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2.0 Test Regulations

The emissions tests were performed accord	ding to following regul	ations:
□ 47 CFR Part 15, Subpart B		
☐ CISPR 22:2009 +A1:2010	☐ Class A	☐ Class B
	☐ Class A	⊠ Class B
☑ IC Regulation ICES-003 Issue 7		
☐ CAN/CSA-CISPR 32:17	☐ Class A	☐ Class B
	☐ Class A	



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Report No.: KES-EM-22T0431 Page (11) of (27)

2.1 Conducted Emissions at Mains Power Ports

Test Date

May. 25, 2022

Test Location

Electro wave Shieldroom #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
	EMI Test S/W	EMC32	R & S	9.12.00	-	-
\boxtimes	EMI TEST RECEIVER	ESR3	R & S	101783	12, 28, 2022	1 Year
\boxtimes	LISN	ENV216	R & S	101787	12, 27, 2022	1 Year
	LISN	ESH2-Z5	R & S	100450	12, 27, 2022	1 Year
\boxtimes	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 27, 2022	1 Year

Test Conditions

Temperature: $(24,6 \pm 0,1)$ °C Relative Humidity: $(42,7 \pm 0,1)$ % R.H.

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

Test Results

The requirements are:

 \boxtimes PASS

☐ NOT PASS

☐ NOT APPLICABLE

Remarks

See Appendix A for test data.

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Report No.: KES-EM-22T0431 Page (12) of (27)

2.2 Radiated Electric Field Emissions (Below 1 61/2)

Test Date

May. 25, 2022

Test Location

☐ OPEN AREA TEST SITE #2 ☐ SEMI ANECHOIC CHAMBER #4(10m)

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-	-
\boxtimes	EMI TEST RECEIVER	ESU26	R & S	100551	03, 31, 2023	1 Year
\boxtimes	AMPLIFIER	SCU 01	R & S	100603	11, 24, 2022	1 Year
\boxtimes	TRILOG- BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	12, 08, 2022	2 Year
\boxtimes	ATTENUATOR	8491A	НР	32173	03, 08, 2023	1 Year

Test Conditions

Temperature: $(23,5 \pm 0,2)$ °C Relative Humidity: $(42,5 \pm 0,2)$ % R.H.

Frequency Range of Measurement

30 MHz to 1 GHz

Instrument Settings

IF Band Width: 120 kHz

Test Results

The requirements are:

☐ PASS

□ NOT PASS□ NOT APPLICABLE

Remarks

- See Appendix A for test data.
- The fundamental of the EUT was investigated in thre orthogonal orientations X, Y and Z.



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Report No.: KES-EM-22T0431 Page (13) of (27)

2.3 Radiated Electric Field Emissions (Above 1 6Hz)

Test Date

May. 25, 2022

Test Location

SEMI ANECHOIC CHAMBER #4(10m)

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
\boxtimes	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-	-
\boxtimes	EMI TEST RECEIVER	ESU26	R & S	100551	03, 31, 2023	1 Year
\boxtimes	PREAMPLIFIER	8449B	AGILENT	3008A01742	12, 27, 2022	1 Year
\boxtimes	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	12, 16, 2022	1 Year

Test Conditions

Temperature: $(23,5 \pm 0,2) \,^{\circ}$ C Relative Humidity: $(42,5 \pm 0,1) \,^{\circ}$ R.H.

Frequency Range of Measurement

1 GHz to 12,4 GHz

Instrument Settings

IF Band Width: 1 ₩2

Test Results

The requirements are:

 \square NOT PASS

☐ NOT APPLICABLE

Remarks

See Appendix A for test data.



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Report No.: KES-EM-22T0431 Page (14) of (27)

APPENDIX A - TEST DATA

Conducted Emissions at Mains Power Ports

■ Charge Mode

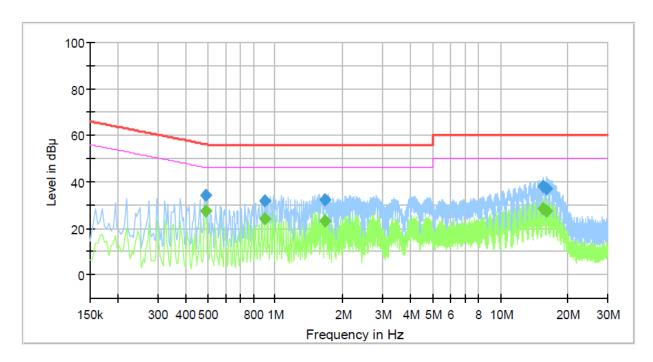
HOT LINE

Common Information

Test Description: Conducted Emission Model No.: TONE-TF8Q

Phase:

Mode: Charge Operator Name: KES



Final_Result

Frequency	QuasiPeak	CAverage	Limit	Margin	Meas.	Bandwidth	Line	Corr.
(MHz)	(dBμV)	(dΒμV)	(dBµV)	(dB)	Time	(kHz)		(dB)
					(ms)			
0.490000		27.28	46.17	18.89	1000.0	9.000	L1	19.7
0.490000	34.10		56.17	22.07	1000.0	9.000	L1	19.7
0.898000		24.19	46.00	21.81	1000.0	9.000	L1	20.1
0.898000	31.59		56.00	24.41	1000.0	9.000	L1	20.1
1.658000		23.36	46.00	22.64	1000.0	9.000	L1	20.3
1.658000	32.14		56.00	23.86	1000.0	9.000	L1	20.3
15.490000		28.53	50.00	21.47	1000.0	9.000	L1	19.9
15.490000	37.81		60.00	22.19	1000.0	9.000	L1	19.9
16.038000		27.46	50.00	22.54	1000.0	9.000	L1	19.9
16.038000	37.17		60.00	22.83	1000.0	9.000	L1	19.9



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Report No.: KES-EM-22T0431 Page (15) of (27)

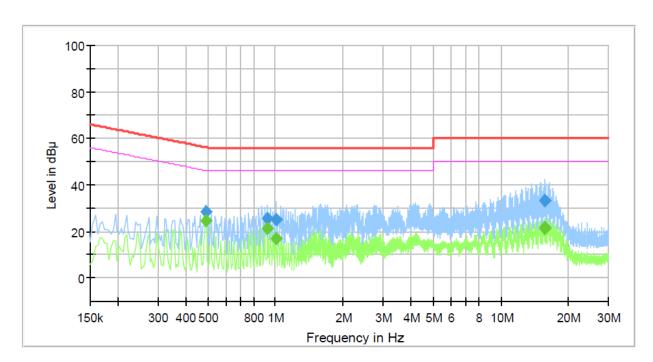
NEUTRAL LINE

Common Information

Test Description: Conducted Emission Model No.: TONE-TF8Q

Phase:

Mode: Charge Operator Name: KES



Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.490000		24.39	46.17	21.78	1000.0	9.000	N	19.7
0.490000	28.58	24.55	56.17	27.59	1000.0	9.000	N	19.7
0.922000		21.14	46.00	24.86	1000.0	9.000	N	20.1
0.922000	25.72		56.00	30.28	1000.0	9.000	N	20.1
1.006000		16.99	46.00	29.01	1000.0	9.000	N	20.0
1.006000	25.01		56.00	30.99	1000.0	9.000	N	20.0
15.662000		21.50	50.00	28.50	1000.0	9.000	N	19.9
15.662000	33.06		60.00	26.94	1000.0	9.000	N	19.9
15.686000		21.20	50.00	28.80	1000.0	9.000	N	19.9
15.686000	33.16		60.00	26.84	1000.0	9.000	N	19.9

◆ Calculation

QuasiPeak[dBuV] / CAverage [dBuV] = Reading Value[dBuV] + Corr. [dB]

QuasiPeak / CAverage : The Final Value Reading Value : Not shown in the table.

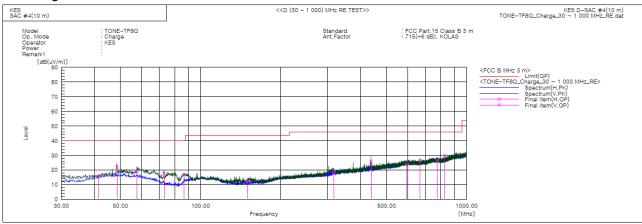
Corr.: Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))



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Radiated Electric Field Emissions(Below 1 6 ₪)

- 47 CFR Part 15, Subpart B
- Charge Mode



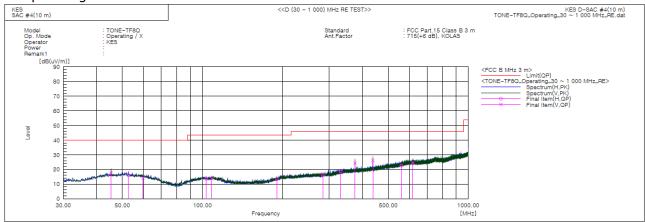
Final Result

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	41.276	Н	37.9	-22.4	15.5	40.0	24.5	400.0	308.0	
2	48.576	V	43.2	-21.4	21.8	40.0	18.2	115.0	72.0	
3	57.766	V	40.8	-22.1	18.7	40.0	21.3	100.0	338.0	
4	72.939	V	43.9	-26.5	17.4	40.0	22.6	122.0	12.0	
5	86.745	V	42.8	-25.9	16.9	40.0	23.1	100.0	34.0	
6	149.916	Н	38.1	-25.9	12.2	43.5	31.3	356.0	27.0	
7	316.999	Н	36.1	-17.9	18.2	46.0	27.8	400.0	101.0	
8	437.570	V	40.4	-14.5	25.9	46.0	20.1	100.0	87.0	
9	596.844	Н	33.7	-9.9	23.8	46.0	22.2	391.0	26.0	
10	668.866	Н	36.1	-9.5	26.6	46.0	19.4	400.0	79.0	
11	776.658	V	34.8	-8.3	26.5	46.0	19.5	154.0	319.0	
12	827.825	Н	37.7	-8.0	29.7	46.0	16.3	400.0	274.0	



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■ Operating Mode



Final Result

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[ďB]	[cm]	[deg]	
1	45.399	V	39.2	-21.7	17.5	40.0	22.5	100.0	1.0	
2	52.674	Н	37.6	-21.5	16.1	40.0	23.9	400.0	54.0	
3	59.828	V	36.4	-22.3	14.1	40.0	25.9	106.0	59.0	
4	103.478	Н	36.6	-23.0	13.6	43.5	29.9	400.0	46.0	
5	108.570	V	36.5	-22.9	13.6	43.5	29.9	156.0	12.0	
6	190.778	Н	36.1	-22.8	13.3	43.5	30.2	375.0	143.0	
7	283.898	Н	35.9	-19.5	16.4	46.0	29.6	400.0	73.0	
8	331.549	Н	35.5	-17.0	18.5	46.0	27.5	400.0	203.0	
9	374.956	V	40.3	-15.9	24.4	46.0	21.6	100.0	37.0	
10	437.521	V	40.8	-14.5	26.3	46.0	19.7	100.0	45.0	
11	560.469	Н	33.8	-11.2	22.6	46.0	23.4	400.0	353.0	
12	618.184	V	34.4	-9.8	24.6	46.0	21.4	127.0	45.0	

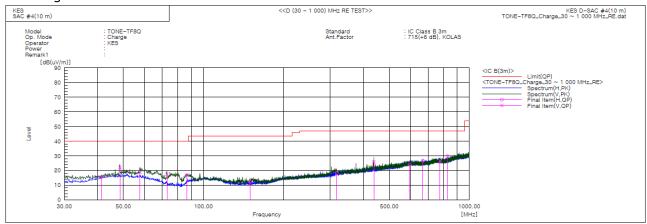
<u>It was determined that X orientation was worst-case orientation; therefore, al final radiated testing was performed with the EUT in X orientation.</u>



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- IC Regulation ICES-003 Issue 7

■ Charge Mode



Final Result

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[ďB]	[cm]	[deg]	
1	41.276	Н	37.9	-22.4	15.5	40.0	24.5	400.0	308.0	
2	48.576	٧	43.2	-21.4	21.8	40.0	18.2	115.0	72.0	
3	57.766	٧	40.8	-22.1	18.7	40.0	21.3	100.0	338.0	
4	72.939	٧	43.9	-26.5	17.4	40.0	22.6	122.0	12.0	
5	86.745	٧	42.8	-25.9	16.9	40.0	23.1	100.0	34.0	
6	149.916	Н	38.1	-25.9	12.2	43.5	31.3	356.0	27.0	
7	316.999	Н	36.1	-17.9	18.2	47.0	28.8	400.0	101.0	
8	437.570	٧	40.4	-14.5	25.9	47.0	21.1	100.0	87.0	
9	596.844	Н	33.7	-9.9	23.8	47.0	23.2	391.0	26.0	
10	668.866	Н	36.1	-9.5	26.6	47.0	20.4	400.0	79.0	
11	776.658	٧	34.8	-8.3	26.5	47.0	20.5	154.0	319.0	
12	827.825	Н	37.7	-8.0	29.7	47.0	17.3	400.0	274.0	

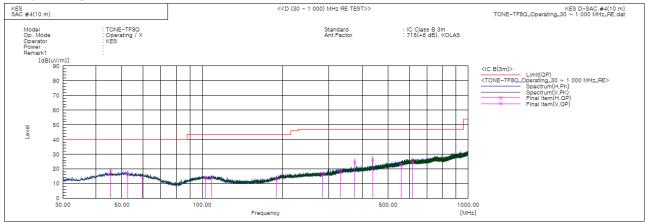


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Report No.: KES-EM-22T0431 Page (19) of (27)

■ Operating Mode



Final Result

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	45.399	٧	39.2	-21.7	17.5	40.0	22.5	100.0	1.0	
2	52.674	Н	37.6	-21.5	16.1	40.0	23.9	400.0	54.0	
3	59.828	٧	36.4	-22.3	14.1	40.0	25.9	106.0	59.0	
4	103.478	Н	36.6	-23.0	13.6	43.5	29.9	400.0	46.0	
5	108.570	٧	36.5	-22.9	13.6	43.5	29.9	156.0	12.0	
6	190.778	Н	36.1	-22.8	13.3	43.5	30.2	375.0	143.0	
7	283.898	Н	35.9	-19.5	16.4	47.0	30.6	400.0	73.0	
8	331.549	Н	35.5	-17.0	18.5	47.0	28.5	400.0	203.0	
9	374.956	٧	40.3	-15.9	24.4	47.0	22.6	100.0	37.0	
10	437.521	٧	40.8	-14.5	26.3	47.0	20.7	100.0	45.0	
11	560.469	Н	33.8	-11.2	22.6	47.0	24.4	400.0	353.0	
12	618.184	٧	34.4	-9.8	24.6	47.0	22.4	127.0	45.0	

<u>It was determined that X orientation was worst-case orientation; therefore, al final radiated testing was performed with the EUT in X orientation.</u>

♦ Calculation – SAC #4(10 m)

Result(QP) [dB(M/m)] = (Reading(QP)[dB(M)] + c.f[dB(1/m)]

 $Margin(QP)[dB] = Limit[dB(\mu V/m)] - Result(QP)[dB(\mu V/m)]$

Reading(QP): Reading value, Result(QP): Reading value + Factor value

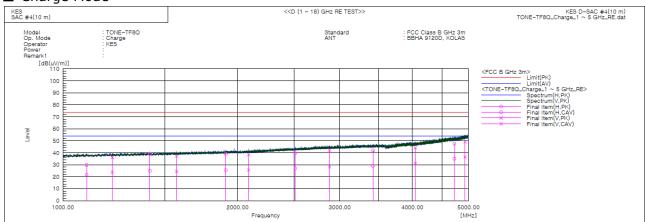
Limit(QP): Limit value, c.f: (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value



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Radiated Electric Field Emissions(Above 1 础)

■ Charge Mode



Final Result

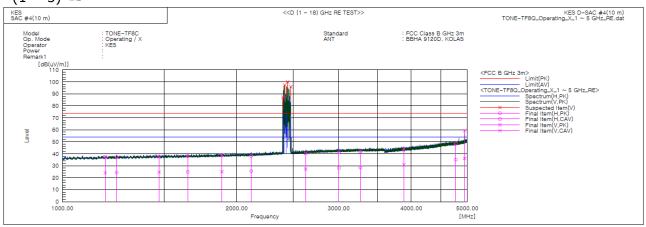
No.	Frequency	(P)	Reading PK	Reading CAV	c.f	Result PK	Result CAV	Limit PK	Limit AV	Margin PK	Margin CAV	Height	Angle	Remark
	[MHz]		[dB(uV)]	[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[dB]	[cm]	[deg]	
1	1098.811	Н	35.4	27.1	-5.5	29.9	21.6	74.0	54.0	44.1	32.4	400.0	38.0	
2	1216.168	V	41.0	28.6	-4.8	36.2	23.8	74.0	54.0	37.8	30.2	122.0	59.0	
3	1412.526	Н	42.6	28.7	-3.7	38.9	25.0	74.0	54.0	35.1	29.0	391.0	153.0	
4	1569.702	V	40.2	27.4	-3.0	37.2	24.4	74.0	54.0	36.8	29.6	100.0	194.0	
5	1908.733	Н	40.8	27.2	-1.7	39.1	25.5	74.0	54.0	34.9	28.5	366.0	2.0	
6	2089.321	V	39.5	26.6	-0.9	38.6	25.7	74.0	54.0	35.4	28.3	100.0	7.0	
7	2513.192	Н	38.4	25.8	1.3	39.7	27.1	74.0	54.0	34.3	26.9	215.0	224.0	
8	2879.533	V	39.3	25.4	2.9	42.2	28.3	74.0	54.0	31.8	25.7	156.0	343.0	
9	3422.731	Н	37.7	24.7	4.3	42.0	29.0	74.0	54.0	32.0	25.0	400.0	93.0	
10	4049.517	V	37.0	23.9	7.3	44.3	31.2	74.0	54.0	29.7	22.8	100.0	332.0	
- 11	4725.926	Н	36.1	23.5	11.5	47.6	35.0	74.0	54.0	26.4	19.0	400.0	63.0	
12	4931.821	٧	35.8	23.1	13.3	49.1	36.4	74.0	54.0	24.9	17.6	162.0	15.0	



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■ Operating Mode

- (1 ~ 5) GHz



Final Result

No.	Frequency	(P)	Reading PK	Reading CAV	c.f	Result PK	Result CAV	Limit PK	Limit AV	Margin PK	Margin CAV	Height	Angle	Remark
	[MHz]		[dB(uV)]	[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[dB]	[cm]	[deg]	
1	1185.996	٧	42.6	29.2	-5.0	37.6	24.2	74.0	54.0	36.4	29.8	163.0	68.0	
2	1469.103	V	41.0	28.2	-3.5	37.5	24.7	74.0	54.0	36.5	29.3	100.0	198.0	
3	1885.509	٧	40.5	26.9	-1.8	38.7	25.1	74.0	54.0	35.3	28.9	100.0	257.0	
4	2629.725	٧	38.4	25.4	1.9	40.3	27.3	74.0	54.0	33.7	26.7	113.0	149.0	
5	3884.296	V	37.6	24.2	6.5	44.1	30.7	74.0	54.0	29.9	23.3	100.0	257.0	
6	4944.227	V	45.9	22.8	13.4	59.3	36.2	74.0	54.0	14.7	17.8	100.0	346.0	
7	1240.590	Н	41.9	29.1	-4.7	37.2	24.4	74.0	54.0	36.8	29.6	306.0	271.0	
8	1646.195	Н	40.9	27.6	-2.7	38.2	24.9	74.0	54.0	35.8	29.1	400.0	358.0	
9	2118.762	Н	38.8	26.2	-0.7	38.1	25.5	74.0	54.0	35.9	28.5	344.0	249.0	
10	3001.517	Н	37.8	24.9	3.3	41.1	28.2	74.0	54.0	32.9	25.8	333.0	271.0	
11	3269.097	Н	37.5	24.5	4.0	41.5	28.5	74.0	54.0	32.5	25.5	400.0	309.0	
12	4776.435	Н	36.8	23.3	11.8	48.6	35.1	74.0	54.0	25.4	18.9	400.0	335.0	
13	2402.500	V			0.8			74.0	54.0			150.0	352.0	
14	2420.500	٧			0.9			74.0	54.0			100.0	264.0	
15	2448.500	٧			1.1			74.0	54.0			100.0	249.0	
16	2479.000	V			1.2			74.0	54.0			100.0	268.0	

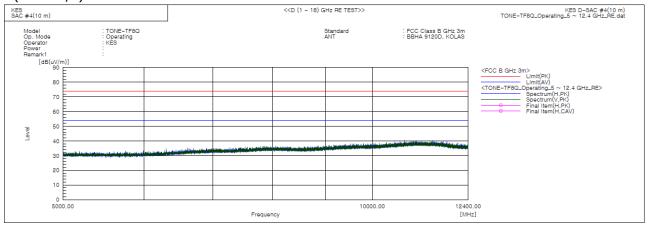
* Exclusion Bands

- Fundamental Frequency: 2.4 GHz Band



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- (5 ~ 12,4) GHz



* No spurious emission were detected above 5 GHz.

◆ Calculation

 $Result(PK/CAV) \ [dB(\mu V/m)] = (Reading(PK/CAV)[dB(\mu V)] + c.f[dB(1/m)]$

Margin(PK/CAV)[dB] = Limit[dB(μ V/m)] - Result(PK/CAV) [dB(μ V/m)]

Reading(PK/CAV): Reading value, Result(PK/CAV): Reading value + Factor value

Limit(QP): Limit value, c.f: (ANT Factor + Cable Loss - Preamp Factor), Margin: Marjin value