

## **ANNEX B\_EMI TEST RESULT**

### **REVISION HISTORY**

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	June 19, 2019	Initial Release
1	June 27, 2019	Added the result of LTE B71

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2014. (See Test Report if any modifications were made for compliance)

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

HCT certifies that no party to application has been denial the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862

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## 1. GENERAL INFORMATION

### 1.1 Details of Support Equipment

All equipment descriptions used in the tested system (including inserted cards) are:

Device Type	Model Name	Manufacturer	Tech. Information
EUT	SM-T517P	SAMSUNG	-
TA	EP-TA50JWE	-	Input: AC 100~240 V, 50~60 Hz, 0.3 A Output: DC 5.0 V, 1.55 A
Data Cable	EP-DR140AWE	-	-
Earphone	EO-EG920BW	-	-
Micro SD Card	-	SAMSUNG	-

### 1.2 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	USB Type C	Y	Y	(P,D) 1.0
	Earphone	N/A	N	(D) 1.2

NOTE. The marked "(D)" means the data cable and "(P)" means the power cable.

### 1.3 Noise Suppression Parts on Cable (I/O Cable)

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
EUT	USB Type C	N	N/A	Y	Both End
	Earphone	N	N/A	Y	EUT End

#### 1.4 Test Facility

Test site is located at 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, South Korea. Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4-2014. The Normalized site attenuations (30 MHz to 1 GHz) and Site validation (1 GHz to 18 GHz) were performed in accordance with the standard in ANSI C63.4-2014

Measurement Facilities	Designation No.
Radiated Field strength measurement facility 3 m Semi Anechoic chamber	
Radiated Field strength measurement facility 10 m Semi Anechoic chamber #1	KR0032
Radiated Field strength measurement facility 10 m Semi Anechoic chamber #2	

#### 1.5 Calibration of Measuring Instrument

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturers recommendations for utilizing calibration equipment, which is traceable to recognized national standards. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2006).

#### 1.6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of  $k = 2$  to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the  $U_{CISPR}$  measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty
Conducted Emission (0.15 MHz to 30 MHz)	1.78 dB
Radiated Emissions (30 MHz to 1 GHz)	6.00 dB
Radiated Emissions (1 GHz to 18 GHz)	4.78 dB
Radiated Emissions (18 GHz to 40 GHz)	4.94 dB

## 2. DESCRIPTION OF TEST

### 2.1 Measurement of Conducted Emission

The test procedure was in accordance with ANSI C63.4-2014, Clause 7.3

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN).  
If the EUT is connected to the PC through USB, the AC power-line adapter of the PC is directly connected to a line impedance stabilization network (LISN).  
Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/50uH of coupling impedance for the measuring instrument.
- b. Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration.
- c. The frequency range from 150 kHz to 30 MHz was searched.

#### Conducted Emission Limits

Frequency (MHz)	Resolution Bandwidth (kHz)	Class A		Class B	
		Quasi-Peak (dB $\mu$ V)	Average (dB $\mu$ V)	Quasi-Peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 to 0.5	9	79	66	66 to 56*	56 to 46*
0.5 to 5	9	73	60	56	46
5 to 30	9	73	60	60	50

NOTE. Decreases with the logarithm of the frequency.

## 2.2 Measurement of Radiated Emission

The test procedure was in accordance with ANSI C63.4-2014, Clause 8.3

- a. The EUT was placed on the top of a turn table 0.8 meters above the ground at a semi-anechoic chamber.  
The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from 1 m to 4 m 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 m to 4 m and the turn 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 detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- g. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.  
(1 GHz to 40 GHz)

### Radiated Emission Limits

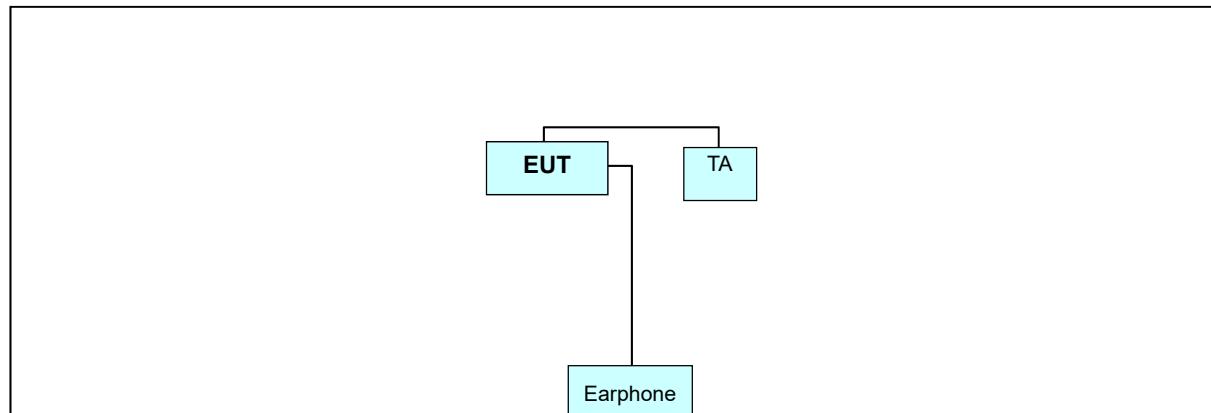
Frequency (MHz)	Class A			Class B		
	Antenna Distance (m)	Field Strength ( $\mu$ V/m)	Quasi-Peak (dB $\mu$ V/m)	Antenna Distance (m)	Field Strength ( $\mu$ V/m)	Quasi-Peak (dB $\mu$ V/m)
30 to 88	10	90	39.0	3	100	40.0
88 to 216	10	150	43.5	3	150	43.5
216 to 960	10	210	46.4	3	200	46.0
Above 960	10	300	49.5	3	500	54.0
Frequency (MHz)	Antenna Distance (m)		Class A		Class B	
			Peak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Peak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)
Above 1 000	3		80	60	74	54

### 2.2.1 Frequency Range of Radiated Measurements

An unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a Radiated Emission limit is specified, up to the frequency shown in the following table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 to 108	1 000
108 to 500	2 000
500 to 1 000	5 000
Above 1 000	5th harmonic of the highest frequency or 40 GHz, whichever is lower
Below 1.705	30

### 2.3 Configuration of Tested System



Non-Conductive Table

Power Line: 120 VAC, 60 Hz

### 3. PRELIMINARY TEST

During preliminary tests, the following operating mode was investigated.

LTE B71 Idle (Low/Middle/High CH)

LTE B26 Idle (Low/Middle/High CH)

LTE B5 Idle (Low/Middle/High CH)

LTE B12 Idle (Low/Middle/High CH)

NOTE. The worst band is tested.

#### 3.1 Conducted Emission

It was tested the following operating mode, after connecting all peripheral devices.

**Operating Mode:** Receiver mode (LTE B5 Middle CH Idle)

#### 3.2 Radiated Emission

It was tested the following operating mode, after connecting all peripheral devices.

**Operating Mode:**

##### 30 MHz to 1 GHz

Receiver mode (LTE B71 Low CH Idle)

Receiver mode (LTE B71 Middle CH Idle)

Receiver mode (LTE B71 High CH Idle)

Receiver mode (LTE B26 Low CH Idle)

Receiver mode (LTE B5 Middle CH Idle)

Receiver mode (LTE B5 High CH Idle)

Receiver mode (LTE B12 Low CH Idle)

Receiver mode (LTE B12 Middle CH Idle)

Receiver mode (LTE B12 High CH Idle)

##### 1 GHz to 30 GHz

Receiver mode (LTE B5 Middle CH Idle)

NOTE.

1. Three orientations have been investigated and the worst case orientation is reported.

2. The worst case of operating mode is reported.

## 4. CONDUCTED EMISSION AND RADIATED EMISSION TEST SUMMARY

### 4.1 Conducted Emission

#### 4.1.1 Measuring instruments

Type	Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	06.25.2018
<input checked="" type="checkbox"/> LISN	Rohde & Schwarz	ENV216	102245	1 year	12.12.2018
<input checked="" type="checkbox"/> RADIO COMMUNICATION ANALYZER	ANRITSU	MT8820C	6201138643	1 year	08.21.2018
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32 VER8.54.0	-	-	-

#### 4.1.2 Operating Condition

The test results of conducted emission at mains ports provide the following information:

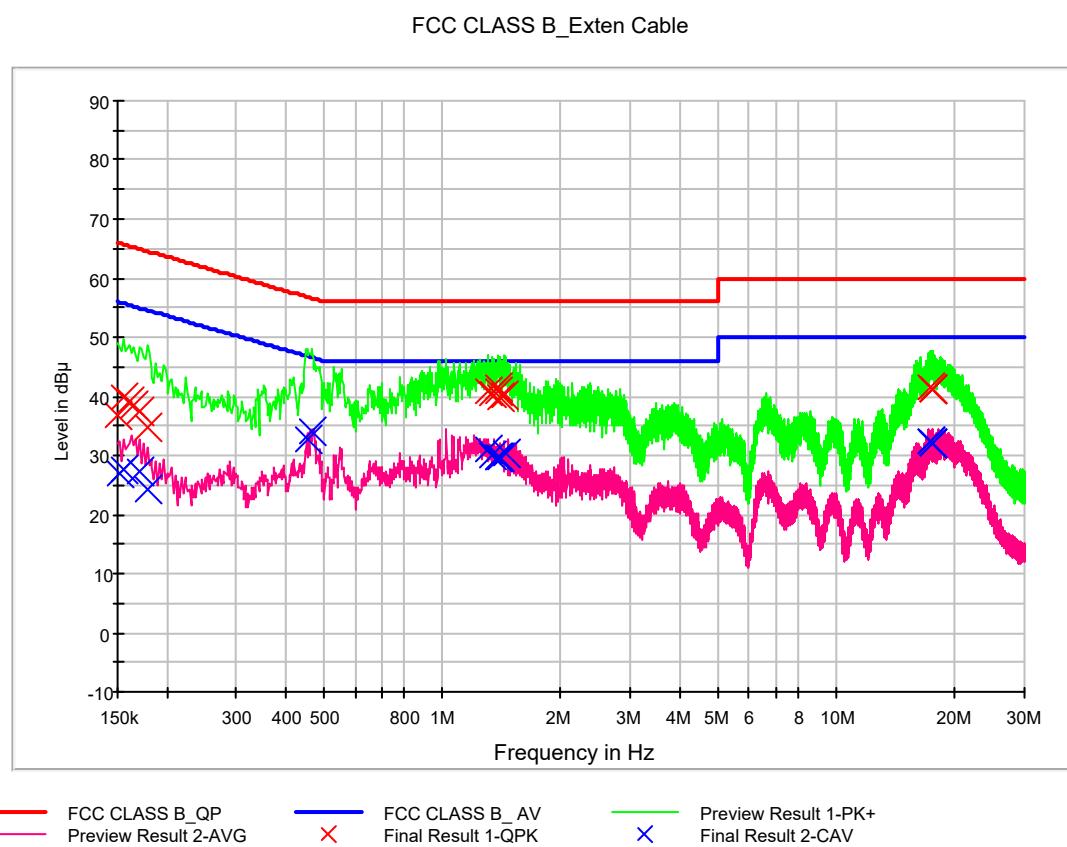
<b>Test Standard Used</b>	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
<b>Detector</b>	Quasi-Peak, CISPR-Average
<b>Bandwidth</b>	9 kHz (6 dB)
<b>Operating Mode</b>	Receiver mode (LTE B5 Middle CH Idle)
<b>Kind of Test Site</b>	Shielded Room
<b>Temperature</b>	24.3 °C
<b>Relative Humidity</b>	44.6 %
<b>Test Date</b>	May 28, 2019

#### -Calculation Formula:

1. Conductor L1 = Hot, Conductor N = Neutral
2. Corr. = LISN Factor + Cable Loss
3. QuasiPeak or CAverage = Receiver Reading + Corr.
4. Margin = Limit – QuasiPeak or CAverage

## 4.1.3 Measuring Data

Figure 1: Conducted Emission, AC Main Port, Line (L1)



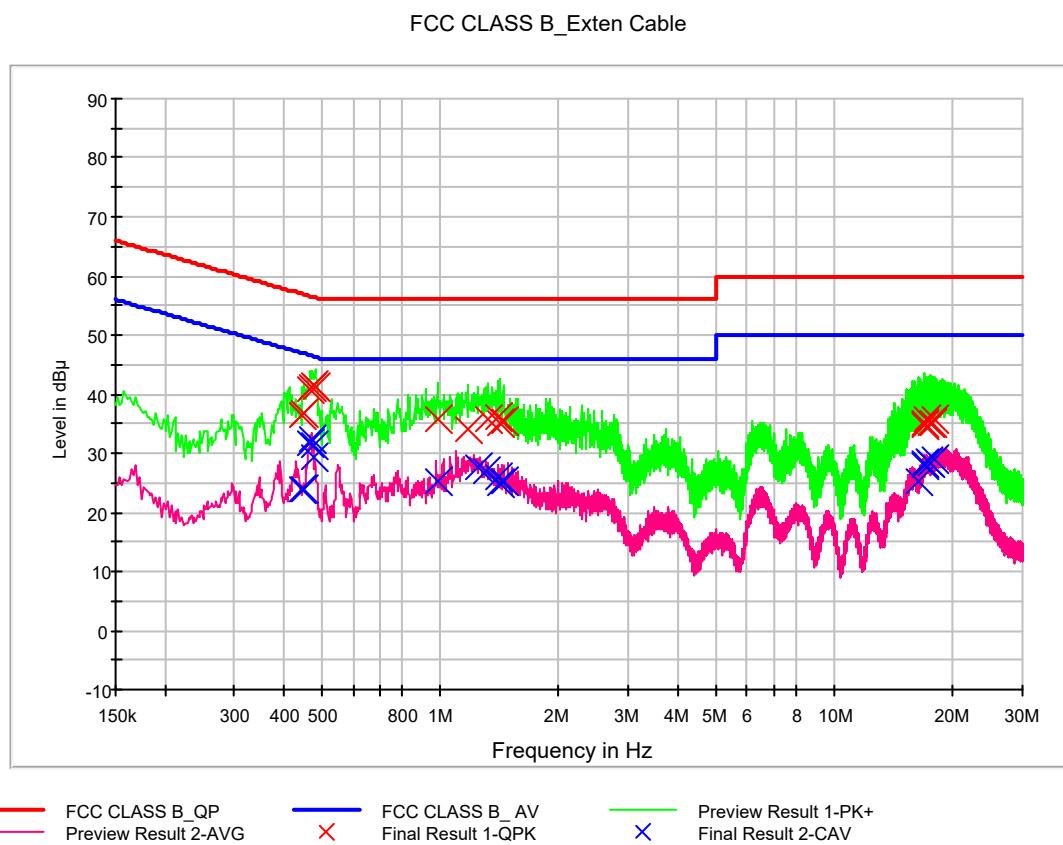
## QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.150000	36.7	9.000	L1	9.7	29.3	66.0
0.156000	39.7	9.000	L1	9.7	26.0	65.7
0.160000	39.0	9.000	L1	9.7	26.4	65.5
0.164000	38.3	9.000	L1	9.7	27.0	65.3
0.170000	37.5	9.000	L1	9.7	27.5	65.0
0.178000	34.8	9.000	L1	9.7	29.8	64.6
1.310000	40.7	9.000	L1	9.9	15.3	56.0
1.336000	40.7	9.000	L1	9.9	15.3	56.0
1.382000	41.5	9.000	L1	9.9	14.5	56.0
1.392000	41.0	9.000	L1	9.9	15.0	56.0
1.400000	39.8	9.000	L1	9.9	16.2	56.0
1.442000	40.1	9.000	L1	9.9	15.9	56.0
17.348000	41.4	9.000	L1	10.5	18.6	60.0
17.516000	41.1	9.000	L1	10.5	18.9	60.0
17.522000	41.0	9.000	L1	10.5	19.0	60.0
17.562000	41.2	9.000	L1	10.5	18.8	60.0
17.578000	41.1	9.000	L1	10.5	18.9	60.0
17.616000	41.0	9.000	L1	10.5	19.0	60.0

## CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dB $\mu$ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.152000	26.9	9.000	L1	9.7	28.9	55.9
0.156000	27.7	9.000	L1	9.7	28.0	55.7
0.170000	27.1	9.000	L1	9.7	27.8	55.0
0.178000	24.3	9.000	L1	9.7	30.3	54.6
0.454000	32.7	9.000	L1	9.8	14.1	46.8
0.468000	33.9	9.000	L1	9.8	12.6	46.5
1.310000	31.1	9.000	L1	9.9	14.9	46.0
1.336000	30.0	9.000	L1	9.9	16.0	46.0
1.382000	29.7	9.000	L1	9.9	16.3	46.0
1.392000	29.8	9.000	L1	9.9	16.2	46.0
1.400000	29.8	9.000	L1	9.9	16.2	46.0
1.444000	30.4	9.000	L1	9.9	15.6	46.0
17.344000	32.4	9.000	L1	10.5	17.6	50.0
17.348000	32.5	9.000	L1	10.5	17.5	50.0
17.522000	32.1	9.000	L1	10.5	17.9	50.0
17.562000	32.1	9.000	L1	10.5	17.9	50.0
17.578000	32.0	9.000	L1	10.5	18.0	50.0
17.616000	32.1	9.000	L1	10.5	17.9	50.0

Figure 2: Conducted Emission, AC Main Port, Line (N)



## QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.446000	36.5	9.000	N	9.9	20.5	56.9
0.450000	36.9	9.000	N	9.9	20.0	56.9
0.468000	40.7	9.000	N	9.9	15.8	56.5
0.472000	41.3	9.000	N	9.9	15.2	56.5
0.476000	41.4	9.000	N	9.9	15.0	56.4
0.482000	41.0	9.000	N	9.9	15.3	56.3
0.984000	35.7	9.000	N	10.0	20.3	56.0
1.174000	33.9	9.000	N	10.0	22.1	56.0
1.314000	35.9	9.000	N	10.0	20.1	56.0
1.400000	36.1	9.000	N	10.1	19.9	56.0
1.414000	35.2	9.000	N	10.1	20.8	56.0
1.444000	35.5	9.000	N	10.1	20.5	56.0
16.878000	35.2	9.000	N	10.7	24.8	60.0
16.934000	34.9	9.000	N	10.8	25.1	60.0
17.082000	35.7	9.000	N	10.8	24.3	60.0
17.466000	35.0	9.000	N	10.8	25.0	60.0
17.824000	35.1	9.000	N	10.8	24.9	60.0
17.910000	35.6	9.000	N	10.8	24.4	60.0

## CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dB $\mu$ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.446000	23.9	9.000	N	9.9	23.1	46.9
0.450000	24.1	9.000	N	9.9	22.8	46.9
0.466000	31.5	9.000	N	9.9	15.0	46.6
0.472000	32.2	9.000	N	9.9	14.2	46.5
0.476000	31.3	9.000	N	9.9	15.1	46.4
0.480000	29.2	9.000	N	9.9	17.1	46.3
0.984000	25.2	9.000	N	10.0	20.8	46.0
1.250000	27.8	9.000	N	10.0	18.2	46.0
1.298000	27.0	9.000	N	10.0	19.0	46.0
1.398000	25.8	9.000	N	10.1	20.2	46.0
1.414000	25.1	9.000	N	10.1	20.9	46.0
1.444000	25.2	9.000	N	10.1	20.8	46.0
16.392000	25.4	9.000	N	10.7	24.6	50.0
16.878000	28.1	9.000	N	10.7	21.9	50.0
16.934000	28.4	9.000	N	10.8	21.6	50.0
17.336000	28.7	9.000	N	10.8	21.3	50.0
17.466000	28.4	9.000	N	10.8	21.6	50.0
17.910000	28.8	9.000	N	10.8	21.2	50.0

## 4.2 Radiated Emission Below 1 GHz

## 4.2.1 Measuring instruments

Type	Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
<input checked="" type="checkbox"/> EMI test receiver	Rohde & Schwarz	ESU40	100524	1 year	2019.05.17
<input checked="" type="checkbox"/> Trilog antenna	Schwarzbeck	VULB 9168	255	2 year	03.26.2019
<input checked="" type="checkbox"/> Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
<input checked="" type="checkbox"/> Antenna master controller	INNCO Systems	CO 3000	CO3000/870/35990515/L	N/A	-
<input checked="" type="checkbox"/> Turn Table	INNCO Systems	1060	-	N/A	-
<input checked="" type="checkbox"/> Turn table controller	INNCO Systems	CO2000	CO2000/095/7590304/L	N/A	-
<input checked="" type="checkbox"/> RADIO COMMUNICATION ANALYZER	ANRITSU	MT8820C	6201138643	1 year	08.21.2018
<input checked="" type="checkbox"/> Antenna (for Communication)	Schwarzbeck	USLP9142	VSLP 9142-200	-	-
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32 VER8.40.0	-	-	-

#### 4.2.2 Operating Condition

The test results of radiated emission provide the following information:

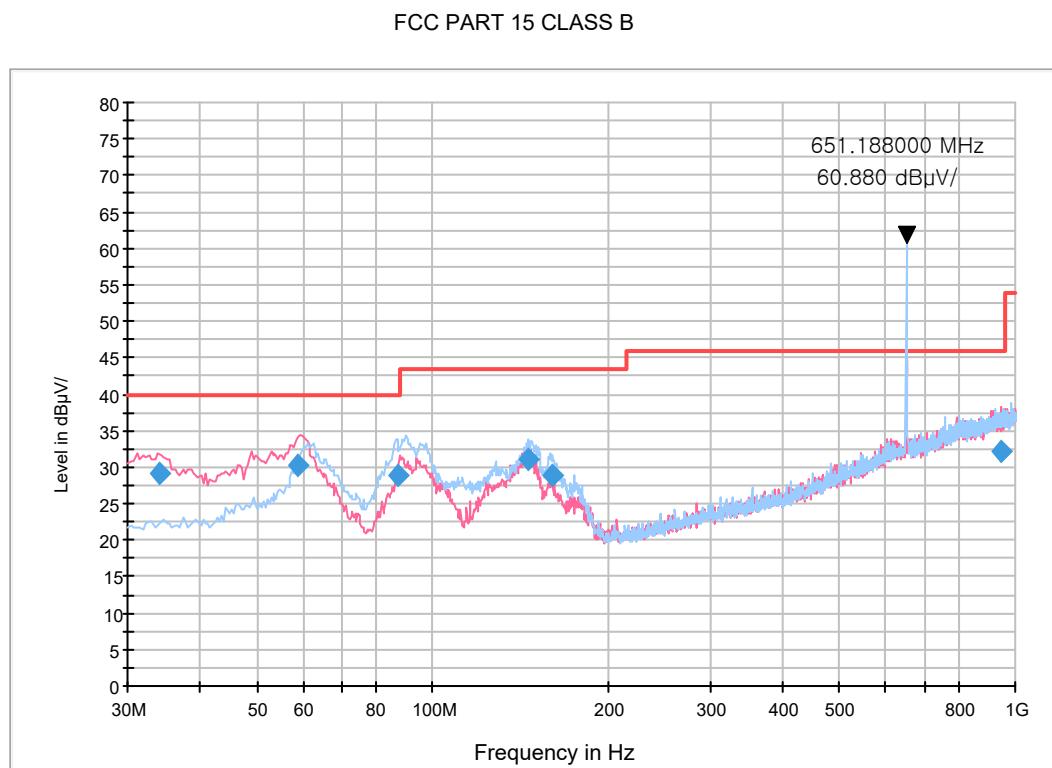
Used Test Standard	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Detector	Quasi-Peak
Bandwidth	120 kHz (6 dB)
Worst Case of Operating Mode	Receiver mode (LTE B71 High CH Idle) Receiver mode (LTE B5 Middle CH Idle) Receiver mode (LTE B12 Low CH Idle)
Kind of Test Site	3 m semi anechoic chamber
Temperature	21.4 °C / 24.1 °C
Relative Humidity	43.3 % / 43.8 %
Test Date	June 15, 2019 / June 27, 2019

- Calculation Formula:

1. POL. H = Horizontal, POL. V = Vertical
2. QuasiPeak = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor + Cable Loss
4. Margin = Limit - QuasiPeak

## 4.2.3 Measuring Data

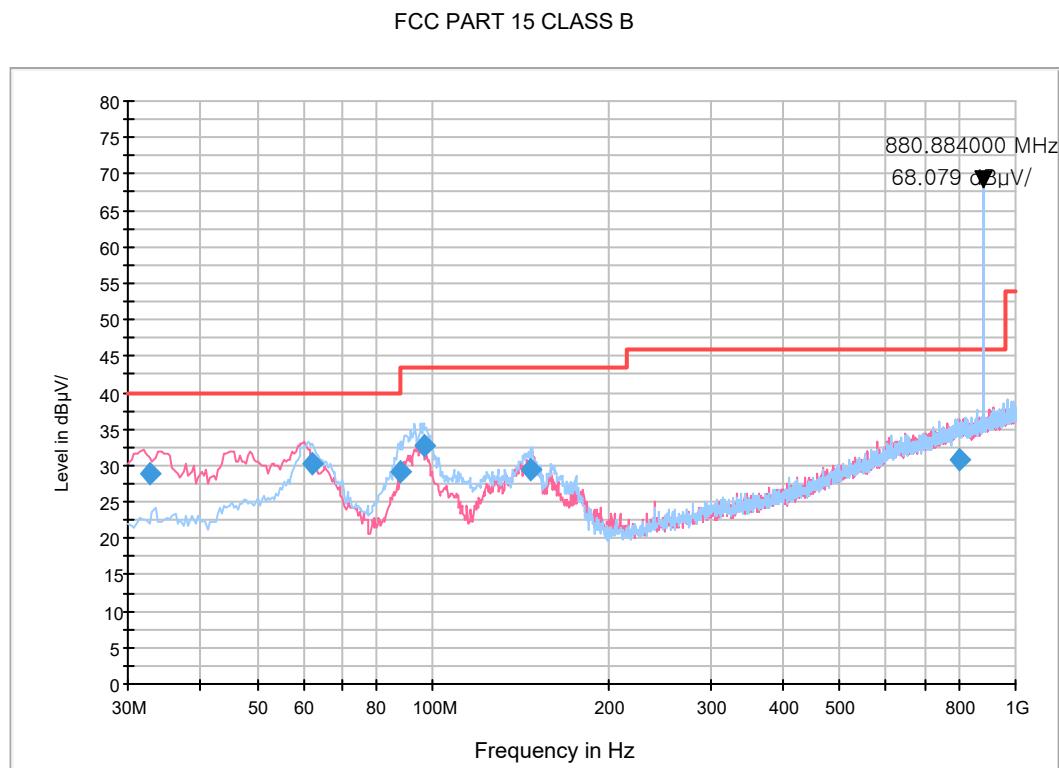
Figure 3: Radiated Emission, Receiver mode (LTE B71 High CH Idle)



note. 1. LTE B71 High ch Rx Frequency: 651.188 MHz  
2. These are signals for fundamental frequency from the base station

Frequency (MHz)	Quasi Peak (dB $\mu$ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
34.166400	29.3	100.0	V	61.0	18.6	10.7	40.0
58.992000	30.2	100.0	V	59.0	19.4	9.8	40.0
87.268000	29.0	208.8	H	7.0	14.7	11.0	40.0
146.576000	31.0	205.8	H	178.0	19.3	12.5	43.5
160.112000	28.9	174.9	H	16.0	19.9	14.6	43.5
942.538400	32.1	307.7	V	0.0	31.9	13.9	46.0

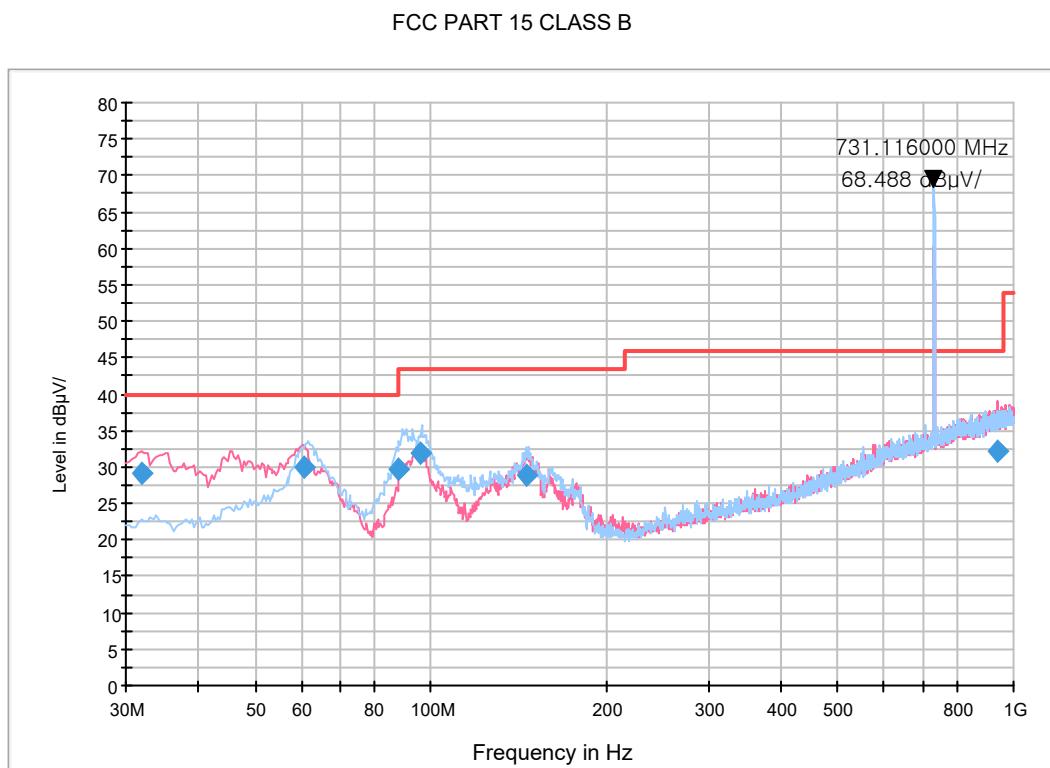
Figure 4: Radiated Emission, Receiver mode (LTE B5 Middle CH Idle)



note. 1. LTE B5 Middle ch Rx Frequency: 880.884 MHz  
2. These are signals for fundamental frequency from the base station

Frequency (MHz)	Quasi Peak (dB $\mu$ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
32.729600	28.9	100.0	V	348.0	18.5	11.1	40.0
62.034400	30.3	274.7	H	320.0	19.1	9.7	40.0
87.730400	29.2	209.0	H	0.0	14.6	10.8	40.0
96.741600	32.8	193.0	H	18.0	14.9	10.7	43.5
147.573600	29.3	207.7	H	187.0	19.4	14.2	43.5
799.715200	30.7	100.0	V	178.0	30.4	15.3	46.0

Figure 5: Radiated Emission, Receiver mode (LTE B12 Low CH Idle)



note. 1. LTE B12 Low ch Rx Frequency: 731.116 MHz

2. These are signals for fundamental frequency from the base station

Frequency (MHz)	Quasi Peak (dBµV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
31.892000	29.1	100.0	V	72.0	18.4	10.9	40.0
60.494400	29.9	100.0	V	38.0	19.3	10.1	40.0
88.224800	29.7	225.0	H	1.0	14.5	13.8	43.5
95.800000	31.9	199.8	H	14.0	14.8	11.6	43.5
146.115200	28.9	225.0	H	179.0	19.3	14.6	43.5
935.884000	32.1	225.1	V	224.0	31.9	13.9	46.0

## 4.3 Radiated Emission Above 1 GHz

## 4.3.1 Measuring instruments

	Type	Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
<input checked="" type="checkbox"/>	EMI test receiver	Rohde & Schwarz	ESU40	100524	1 year	2019.05.17
<input checked="" type="checkbox"/>	Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
<input checked="" type="checkbox"/>	Antenna master controller	INNCO Systems	CO3000	CO3000/870/35990515/L	N/A	-
<input checked="" type="checkbox"/>	Turn table	INNCO Systems	1060	-	N/A	-
<input checked="" type="checkbox"/>	Turn table controller	INNCO Systems	CO2000	CO2000/095/7590304/L	N/A	-
<input checked="" type="checkbox"/>	Horn antenna	Schwarzbeck	BBHA 9120D	01836	2 year	07.20.2018
<input checked="" type="checkbox"/>	Low Noise amplifier	TESTEK	TK-PA18H	170034-L	1 year	03.04.2019
<input checked="" type="checkbox"/>	Power Amplifier	TESTEK	TK-PA1840H	170030-L	1 year	12.17.2019
<input checked="" type="checkbox"/>	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170 #786	2 year	12.05.2017
<input checked="" type="checkbox"/>	RADIO COMMUNICATION ANALYZER	ANRITSU	MT8820C	6201138643	1 year	08.21.2018
<input checked="" type="checkbox"/>	ANTENNA (for Communication)	Schwarzbeck	USLP9142	VSLP 9142-200	-	-
<input checked="" type="checkbox"/>	Software	Rohde & Schwarz	EMC32 VER8.40.0	-	-	-

#### 4.3.2 Operating Condition

The test results of radiated emission provide the following information:

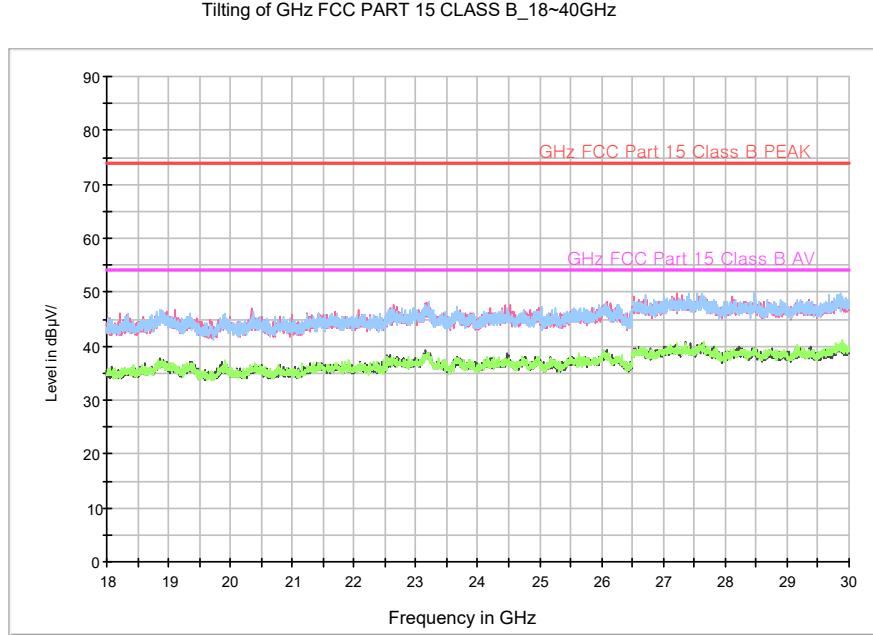
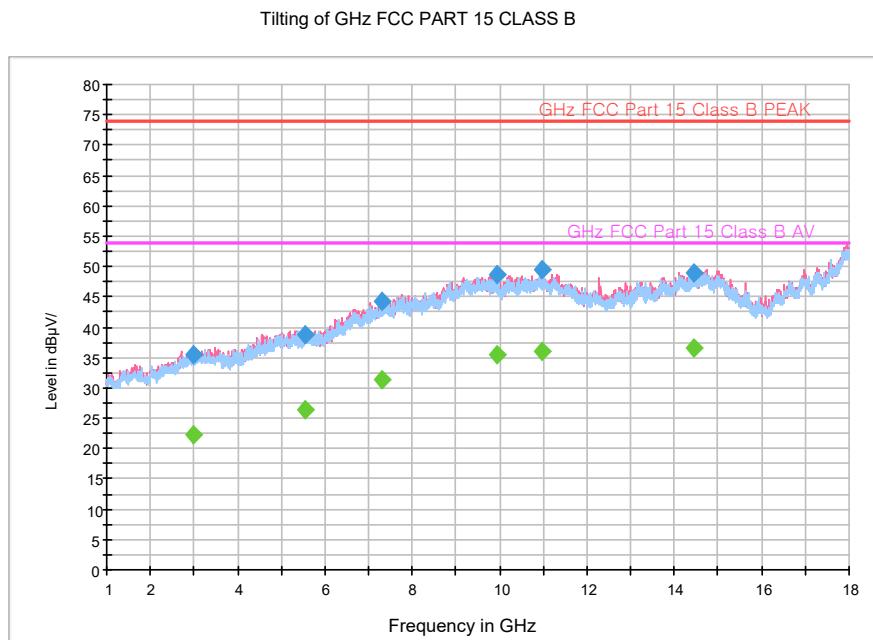
Used Test Standard	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Detector	Peak mode: Peak (RBW: 1 MHz, VBW: 3 MHz) CISPR-Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)
Highest Frequency	5 825 MHz
Tested Frequency Range	1 GHz to 30 GHz
Operation Mode	Receiver mode (LTE B5 Middle CH Idle)
Kind of Test Site	3 m semi anechoic chamber
Temperature	23.6 °C
Relative Humidity	42.7 %
Test Date	June 17, 2019

- Calculation Formula:

1. POL. H = Horizontal, POL. V = Vertical
2. Peak or CAverage = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor+ Cable Loss –Amplifier Gain
4. Margin = Limit - Peak or CAverage

### 4.3.3 Measuring Data

Figure 6: Radiated Emission, Receiver mode (LTE B5 Middle CH Idle)



Frequency (MHz)	Peak (dB $\mu$ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
2977.330000	35.3	249.8	V	295.0	-21.1	38.7	74.0
5554.555000	38.9	113.3	V	206.0	-15.1	35.1	74.0
7313.905000	44.4	202.4	H	123.0	-9.8	29.6	74.0
9945.785000	48.8	191.4	H	223.0	-5.1	25.2	74.0
10961.465000	49.4	276.4	H	225.0	-2.5	24.6	74.0
14438.725000	48.9	304.4	H	0.0	0.6	25.1	74.0

Frequency (MHz)	CAverage (dB $\mu$ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
2977.330000	22.2	249.8	V	295.0	-21.1	31.8	54.0
5554.555000	26.3	113.3	V	206.0	-15.1	27.7	54.0
7313.905000	31.4	202.4	H	123.0	-9.8	22.6	54.0
9945.785000	35.5	191.4	H	223.0	-5.1	18.5	54.0
10961.465000	36.0	276.4	H	225.0	-2.5	18.0	54.0
14438.725000	36.4	304.4	H	0.0	0.6	17.6	54.0

## 5. EMI Test Setup Photo

Please refer to EMI Test Setup Photo and test setup photo file no. as follows;

Revision No.	Date of Issue	File No.
0	June 19, 2019	HCT-RF-1906-FC031-P

End of report