

TEST REPORT

EMC EMC Test for SM-F761B

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-EM-2504-FC003

DATE OF ISSUE
April 30, 2025

Tested by
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HCT CO., LTD.
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**HCT CO.,LTD.**

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TEST REPORT

FCC Certification

REPORT NO.

HCT-EM-2504-FC003

DATE OF ISSUE

April 30, 2025

FCC ID.

A3LSMF761B

Applicant

SAMSUNG Electronics Co., Ltd.

129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do,
16677, Korea

Product Name

Mobile Phone

Model Name

SM-F761B

Date of Test

April 16, 2025 to April 29, 2025

Location of Test

☒ Permanent Testing Lab ☐ On Site Testing Lab
(Address: See clause 1.2)

Test Standard Used

FCC CFR 47 PART 15 Subpart B Class B
ANSI C63.4-2014

Test Results

Refer to the present document

Manufacturer

SAMSUNG Electronics Co., Ltd.

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	April 30, 2025	Initial Release

Notice

Content

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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1. TESTING LABORATORY

1.1 General Information

Organization Name	HCT CO., LTD.
Address	74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea
Telephone	+82 31 645 6300
FAX	+82 31 645 6401

1.2 Location of the Test Site

The test site is located at the following address.;

Address	74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea
Telephone	+82 31 645 6300
FAX	+82 31 645 6401

2. GENERAL INFORMATION

2.1 Description of EUT

FCC ID	A3LSMF761B
Product Name	Mobile Phone
Model Name	SM-F761B
Operating Frequency Band	GSM 850/900/1800/1900, WCDMA B1/2/4/5/8 LTE B1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/38/39/40/41/66 5G NR FR1 n1/2/3/5/7/8/12/20/25/26/28/38/40/41/66/71/77/78 WLAN 11a/b/g/n/ac/ax, BT/BTLE, NFC, WPT, GNSS, Camera, Audio, Video, DP
Manufacturer	SAMSUNG Electronics Co., Ltd.

2.2 Power Source

During the test, the following power supply levels are utilized/provided.;

Power supply: AC 120 V, 60 Hz

2.3 Tested System Details

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

Device Type	Model Name	Serial Number	Manufacturer
Mobile Phone	SM-F761B	-	SAMSUNG Electronics Co., Ltd.
TA ^{a)}	EP-T2510	-	RFTECH
Data Cable	EP-DN980	-	RFTECH
Earphone	EO-IC100	-	CRESYN

a) Input: 100~240 V, 50~60 Hz, 0.7 A Output: (PDO)5.0 V, 3.0 A or 9.0 V, 2.77 A (PPS)3.3~11.0 V, 2.25 A

2.4 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	USB Type C (Data Cable)	Y	N/A	(P) 1.0
	USB Type C (Earphone)	N/A	N	(D) 1.3

“(D)” data cable and “(P)” power cable

2.5 Noise Suppression Parts on Cable (I/O Cable)

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

3. DESCRIPTION OF TESTING

3.1 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 (dBμV)	Average (dBμV)	Quasi-Peak (dBμV)	Average (dBμV)
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.

3.2 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 (μV/m)	Quasi-Peak (dBμV/m)	Antenna Distance (m)	Field Strength (μV/m)	Quasi-Peak (dBμV/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 (dBμV/m)	Average (dBμV/m)	Peak (dBμV/m)	Average (dBμV/m)	
Above 1 000	3	80	60	74	54	

Frequency Range of Radiated Measurements

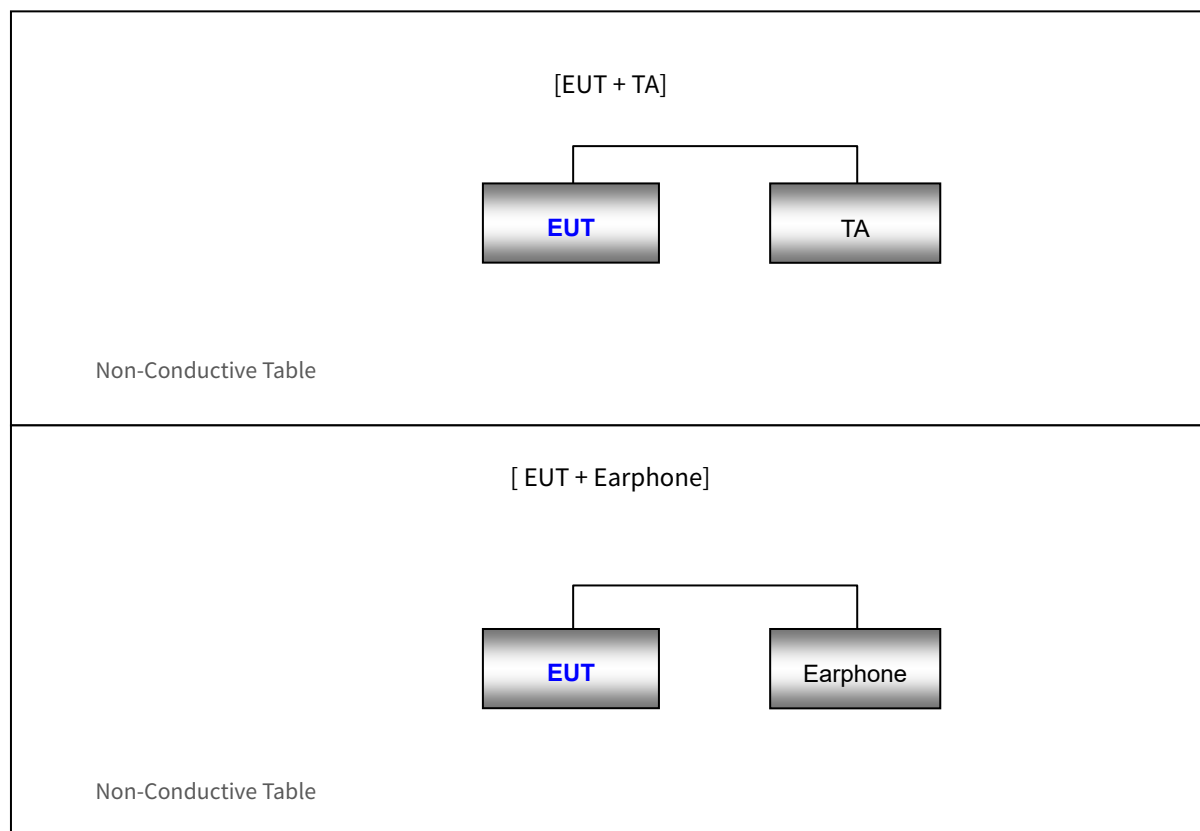
An unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a Radiated Emission limit is specified, up to the frequency shown in the following table

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

3.3 Configuration of Tested System

The EUT was connected in the following manner:

At the manufacturer's request, the test configuration was arranged.



3.4 Operating Mode of The Test

During preliminary tests, the following operating mode was investigated;
The following operating mode was tested after connecting all peripheral devices.

Receiver mode(GSM 850 Low/Middle/High ch Idle)

Receiver mode(WCDMA B5 Low/Middle/High ch Idle)

Receiver mode(LTE B5_Low/Middle/High ch)

Receiver mode(LTE B12_Low/Middle/High ch)

Receiver mode(LTE B13_Low/Middle/High ch)

Receiver mode(LTE B17_Low/Middle/High ch)

Receiver mode(LTE B26_Low/Middle/High ch)

Receiver mode(5G NR n5_Low/Middle/High ch)

Receiver mode(5G NR n71_Low/Middle/High ch)

NOTE. The EUT underwent a pre-test to determine the worst-case operating mode.

During the final tests, the following operating mode was investigated;

Operating Mode: [EUT Unfolded + TA]

LTE B5+5G NR n5 Low ch Idle

LTE B5+5G NR n5 Middle ch Idle

LTE B5+5G NR n5 High ch Idle

LTE B12(B17)+B13 Low ch Idle

LTE B12(B17)+B13 Middle ch Idle

LTE B12(B17)+B13 High ch Idle

LTE B26 Low ch Idle

LTE B26 Middle ch Idle

LTE B26 High ch Idle

5G NR n71 Low ch Idle

5G NR n71 Middle ch Idle

5G NR n71 High ch Idle

[EUT Folded + TA]

5G NR n71 High ch Idle

[EUT + Earphone]

5G NR n71 High ch Idle

- NOTE 1.** Three orientations have been investigated and the worst-case orientation (x-axis: The display of EUT placed on the table is facing upwards) is reported.
- NOTE 2.** Frequency bands adjacent to each other are tested as one mode.
- NOTE 3.** The worst-case operating mode has been reported.

4. TEST SITES CONDITIONS

4.1 Test Facility

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 and ANSI C63.4a-2017.

Our laboratories are accredited and designated in accordance with the provisions of Radio Waves ACT and International Standard ISO/IEC 17025:2017. (National Radio Research Agency, CABID No. KR0032)

4.2 Measuring Instrument Calibration

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 C63.5:2017.

4.3 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 UCISPR measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Phenomenon	Test Site (Chamber)	Expanded Uncertainty	
Conducted emission	EMI Shield Room	1.5 dB	
Radiated emission	3 m Semi-Anechoic Chamber #1	30 MHz to 1 GHz	5.8 dB
	3 m Semi-Anechoic Chamber #1	1 GHz to 18 GHz	4.9 dB
	3 m Semi-Anechoic Chamber #1	18 GHz to 40 GHz	5.9 dB

4.4 Decision Rules and Statements of Conformity

Simple Acceptance

5. MEASURING INSTRUMENT

Type	Model Name	Manufacturer	Serial Number	Cal. Cycle	Next Cal. Date (yy.mm.dd)
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Conducted emission

☒	EMI Test Receiver	ESR7	Rohde&Schwarz	101910	1 year	2025.08.27
☒	LISN	ENV216	Rohde&Schwarz	102245	1 year	2025.07.17
☒	Software	EMC32	Rohde & Schwarz	-	-	-
☒	Radio communication analyzer	MT8821C	ANRITSU	6262192376	1 year	2025.10.15
☒	Radio communication analyzer	MT8000A	ANRITSU	6262208294	1 year	2025.10.14
☒	Antenna (for Communication)	HyperLOG7060	Aaronia	-	-	-
☒	Antenna (for Communication)	HyperLOG7060	Aaronia	-	-	-

Radiated emission up to 1 GHz

☒	EMI Test Receiver	ESU40	Rohde&Schwarz	100524	1 year	2025.05.07
☒	Bilog Antenna	VULB9168	Schwarzbeck	255	2 year	2027.02.27
☒	Antenna master	MA4640-XP-ET	INNCO SYSTEM	-	N/A	-
☒	Antenna master controller	CO3000	INNCO SYSTEM	CO3000/870 /35990515/L	N/A	-
☒	Turn Table	DS2000-S	INNCO SYSTEM	-	N/A	-
☒	Software	EMC32	ROHDE&SCHWARZ	-	N/A	-
☒	Universal Radio Communication Tester	CMU200	Rohde&Schwarz	107488	1 year	2025.09.24
☒	Wideband Radio Communication Tester	CMW500	Rohde&Schwarz	103246	1 year	2025.09.02
☒	Radio Communication Analyzer	MT8820C	Anritsu	6201181706	1 year	2026.03.25
☒	Radio communication analyzer	MT8821C	ANRITSU	6262192376	1 year	2025.10.15
☒	Radio communication analyzer	MT8000A	ANRITSU	6262208294	1 year	2025.10.14
☒	Antenna (for Communication)	HyperLOG7060	Aaronia	-	N/A	-

☒	Antenna (for Communication)	HyperLOG7060	Aaronia	-	N/A	-
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Radiated emission above 1 GHz

☒	EMI test receiver	ESU40	Rohde & Schwarz	100524	1 year	2025.05.07
☒	Antenna master	MA4640-XP-ET	INNCO SYSTEM	-	N/A	-
☒	Antenna master controller	CO3000	INNCO SYSTEM	CO3000/870/ 35990515/L	N/A	-
☒	Turn Table	DS2000-S	INNCO SYSTEM	-	N/A	-
☒	Low Noise Amplifier	TK-PA18H	TESTEK	170034-L	1 year	2025.10.14
☒	Low Noise Amplifier	TK-PA1840H	TESTEK	170030-L	1 year	2026.02.13
☒	Horn Antenna	HF907	Rohde & Schwarz	103160	1 year	2025.10.15
☒	Horn Antenna	BBHA 9170	Schwarzbeck	BBHA9170 #786	1 year	2025.10.30
☒	Software	EMC32	Rohde & Schwarz	-	-	-
☒	Universal radio communication tester	CMU200	Rohde & Schwarz	107488	1 year	2025.09.24
☒	Wideband Radio Communication Tester	CMW500	Rohde & Schwarz	103246	1 year	2025.09.02
☒	Radio Communication Analyzer	MT8820C	Anritsu	6201181706	1 year	2026.03.25
☒	Radio communication analyzer	MT8821C	ANRITSU	6262192376	1 year	2025.10.15
☒	Radio communication analyzer	MT8000A	ANRITSU	6262208294	1 year	2025.10.14
☒	Antenna (for Communication)	HyperLOG7060	Aaronia	-	N/A	-
☒	Antenna (for Communication)	HyperLOG7060	Aaronia	-	N/A	-

6. EMISSION TEST SUMMARY

6.1 Conducted Emission

6.1.1 Operating Condition

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

Date of Test (yy.mm.dd)	2025.04.28		
Temperature	min. 21.2 °C	Relative Humidity	min. 31.1 %
	max. 24.7 °C		max. 36.4 %
Test Site	EMI Shield Room		
Test Standard Used	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014		
Frequency Range	0.15 MHz to 30 MHz		
Detector	Quasi-Peak, CISPR-Average		
Bandwidth	9 kHz (6 dB)		
Operating Mode	[EUT Unfolded + TA] 5G NR n71 High ch Idle [EUT Folded + TA] 5G NR n71 High ch Idle		

NOTE. The worst-case operating mode has been reported.

A conducted emission is calculated by the following equation.;

$$A = B + C \quad \text{Where}$$

A: QuasiPeak or CAverage in dBμV
B: Receiver reading in dBμV
C: Corr. in dB (LISN Factor + Cable Loss)
Margin in dB = Limit - A

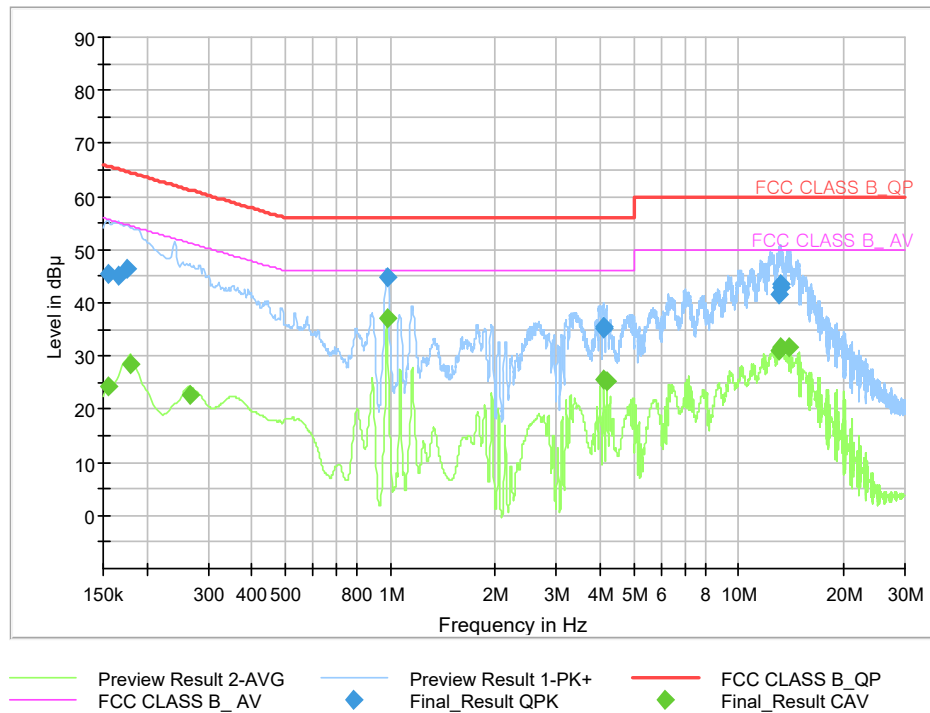
If it's an AC mains cable, the readings includes both Live (L1) and Neutral (N).

The measurements for both Live (L1) and Neutral (N) from the LISN are combined into a single graph.

6.1.2 Measurement Data

[[EUT Folded + TA] 5G NR n71 High ch idle]

Full Spectrum



[QuasiPeak]

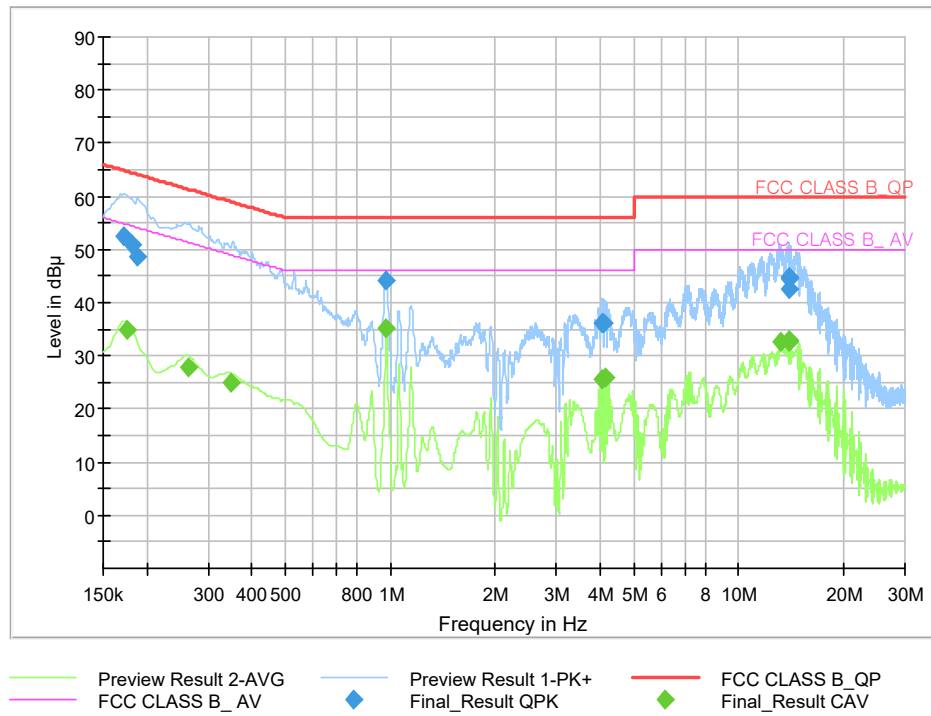
Frequency [MHz]	QuasiPeak [dBμV]	Corr. [dB]	Line	Margin [dB]	Limit [dBμV]
0.1545	45.29	9.6	L1	20.46	65.75
0.1658	45.02	9.6	L1	20.15	65.17
0.1748	46.33	9.6	L1	18.40	64.73
0.9770	44.81	9.7	L1	11.19	56.00
4.0843	35.27	9.8	L1	20.73	56.00
4.0888	35.62	9.8	L1	20.38	56.00
13.0933	41.68	10.2	L1	18.32	60.00
13.1518	43.51	10.2	L1	16.49	60.00
13.1563	42.89	10.2	L1	17.11	60.00

[CAverage]

Frequency [MHz]	CAverage [dBμV]	Corr. [dB]	Line	Margin [dB]	Limit [dBμV]
0.1545	24.37	9.6	L1	31.38	55.75
0.1793	28.41	9.6	L1	26.11	54.52
0.2670	22.62	9.7	L1	28.59	51.21
0.9793	37.00	9.7	L1	9.00	46.00
4.0933	25.64	9.8	L1	20.36	46.00
4.1833	25.35	9.8	L1	20.65	46.00
13.0640	31.10	10.1	L1	18.90	50.00
13.1540	31.58	10.2	L1	18.42	50.00
13.9483	31.52	10.2	L1	18.48	50.00

[[EUT Unfolded + TA] 5G NR n71 High ch idle]

Full Spectrum



[QuasiPeak]

Frequency [MHz]	QuasiPeak [dBμV]	Corr. [dB]	Line	Margin [dB]	Limit [dBμV]
0.1725	52.44	9.6	N	12.40	64.84
0.1815	50.94	9.6	N	13.48	64.42
0.1883	48.77	9.6	N	15.34	64.11
0.9748	44.17	9.7	L1	11.83	56.00
4.0685	36.19	9.8	L1	19.81	56.00
4.0775	36.11	9.8	L1	19.89	56.00
13.9843	44.73	10.2	L1	15.27	60.00
13.9910	44.44	10.2	L1	15.56	60.00
14.0023	42.45	10.2	L1	17.55	60.00

[CAverage]

Frequency [MHz]	CAverage [dBμV]	Corr. [dB]	Line	Margin [dB]	Limit [dBμV]
0.1748	34.87	9.6	L1	19.86	54.73
0.2625	27.97	9.7	L1	23.38	51.35
0.3480	25.07	9.7	L1	23.94	49.01
0.9725	35.16	9.7	L1	10.84	46.00
4.0685	25.57	9.8	L1	20.43	46.00
4.1585	25.92	9.8	L1	20.08	46.00
13.1945	32.73	10.2	L1	17.27	50.00
13.9100	32.58	10.2	L1	17.42	50.00
13.9955	32.86	10.2	L1	17.14	50.00

6.2 Radiated Emission up to 1 GHz

6.2.1 Operating Condition

The test results of radiated emission provide the following information:

Date of Test (yy.mm.dd)	2025.04.16 ~ 2025.04.27		
Temperature	min. 21.8 °C	Relative Humidity	min. 31.4 %
	max. 25.7 °C		max. 37.2 %
Test Site	3 m Semi Anechoic Chamber #1		
Used Test Standard	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014		
Frequency Range	30 MHz to 1 000 MHz		
Detector	Quasi-Peak		
Bandwidth	120 kHz (6 dB)		
Measurement distance	3 m		
Antenna Height	1 m to 4 m		
Operating Mode	[EUT Unfolded + TA]	LTE B5+5G NR n5 Low ch Idle LTE B12(B17)+B13 High ch Idle LTE B26 High ch Idle 5G NR n71 High ch Idle	
	[EUT Folded + TA]	5G NR n71 High ch Idle	
	[EUT + Earphone]	5G NR n71 High ch Idle	

NOTE. The worst-case operating mode has been reported.

A field strength is calculated by the following equation;

$$A = B + C$$

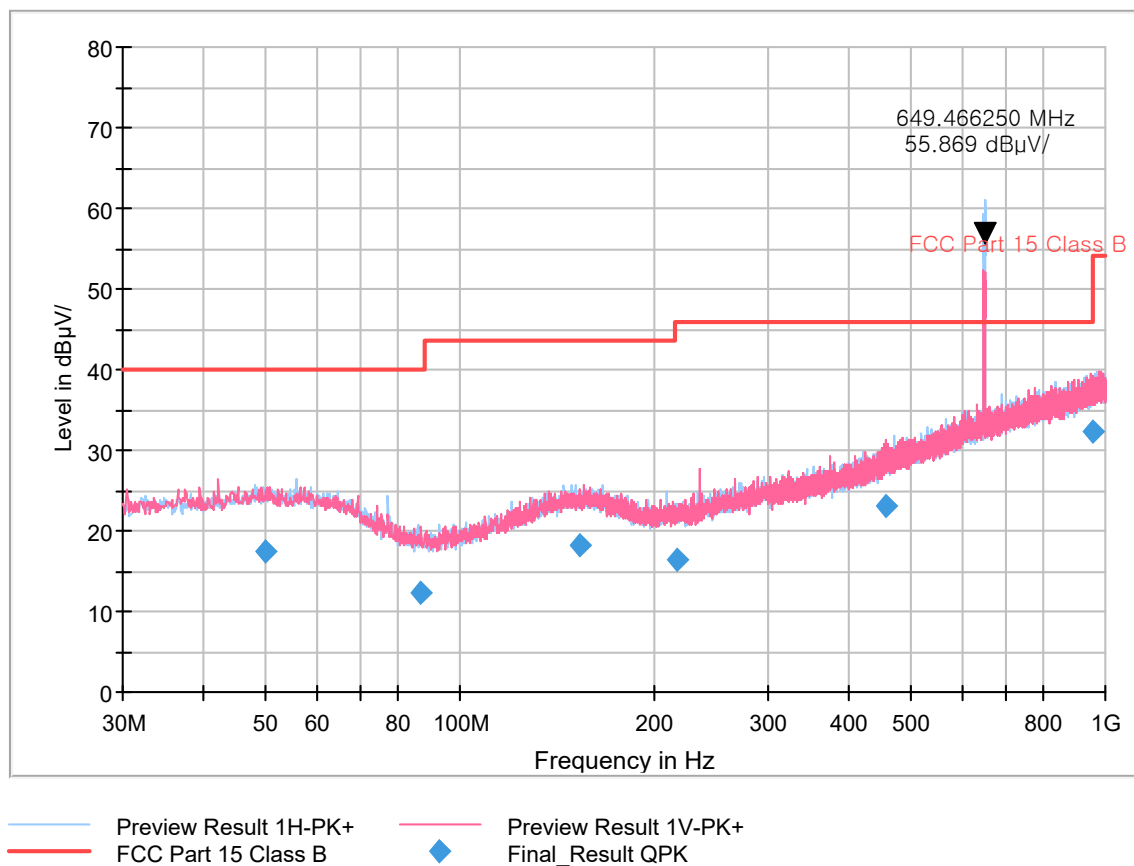
Where
A: Quasi Peak in dBμV/m (Field strength)
B: Receiver reading in dBμV
C: Corr. in dB (Cable loss + Antenna factor)
Margin in dB = Limit - A

The measurements' polarities are H and V, where H stands for horizontal and V stands for vertical.

6.2.2 Measurement Data

[[EUT + Earphone] 5G NR n71 High Ch idle]

Full Spectrum

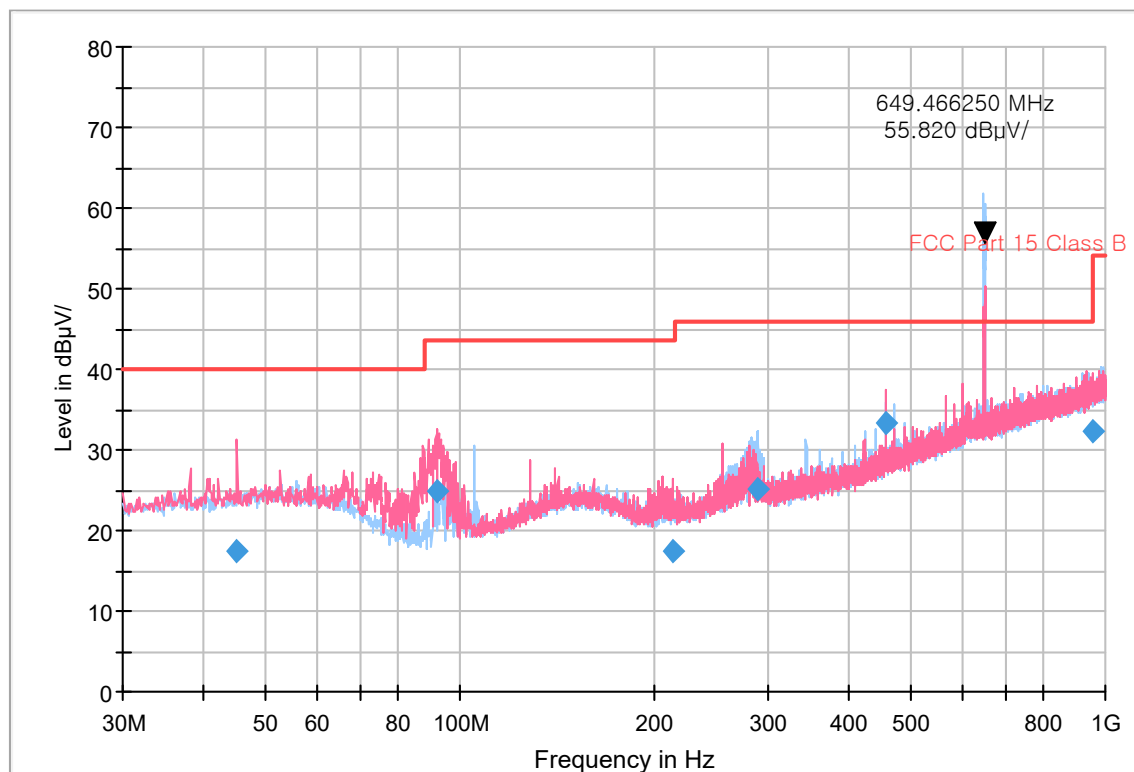


Carrier Frequency: Rx 649.4662 MHz. These are signals for fundamental frequency from the base station

Frequency	QuasiPeak	Height	Pol.	Azimuth	Corr.	Margin	Limit
[MHz]	[dBμV/m]	[cm]	[H/V]	[deg]	[dB]	[dB]	[dBμV/m]
49.9925	17.49	325.0	V	179.0	20.1	22.51	40.00
86.9640	12.28	125.0	V	0.0	14.9	27.72	40.00
153.6322	18.13	225.2	V	243.0	19.7	25.37	43.50
217.5334	16.28	219.6	H	15.0	17.8	29.72	46.00
456.5974	23.03	213.9	V	243.0	24.3	22.97	46.00
955.4123	32.28	374.8	H	8.0	32.0	13.72	46.00

[[EUT Folded + TA] 5G NR n71 High Ch idle]

Full Spectrum



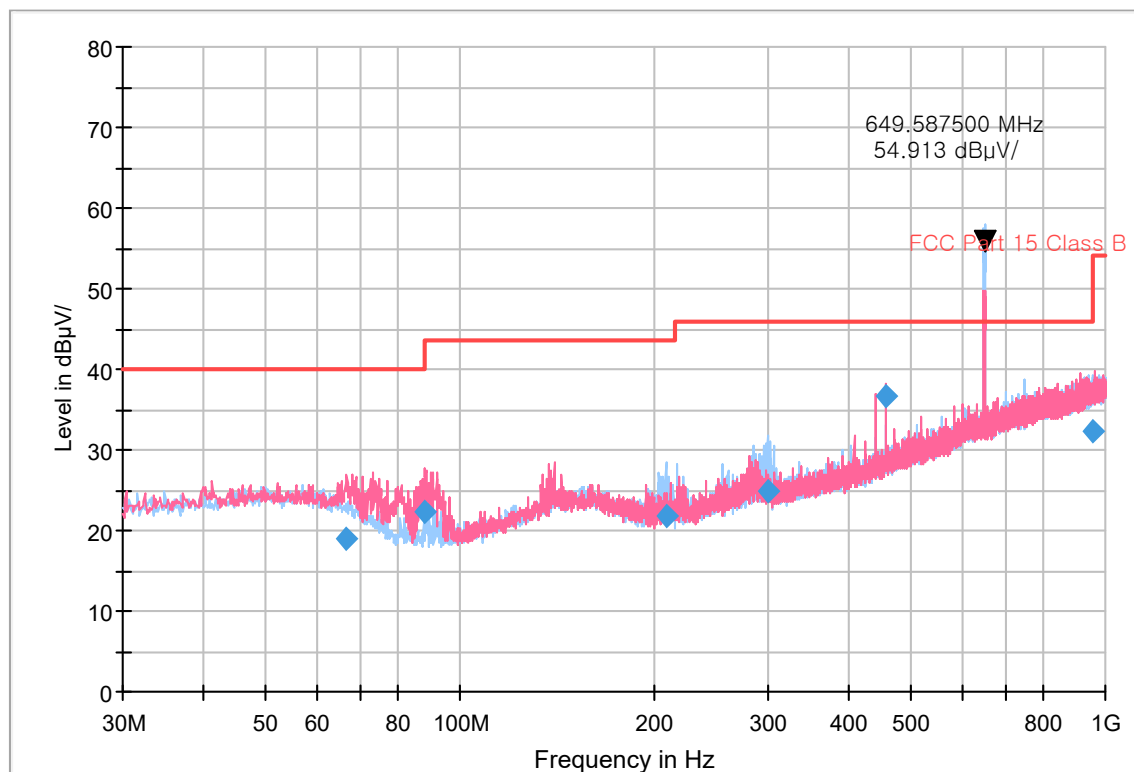
Preview Result 1H-PK+ Preview Result 1V-PK+
FCC Part 15 Class B Final_Result QPK

Carrier Frequency: Rx 649.4662 MHz. These are signals for fundamental frequency from the base station

Frequency	QuasiPeak	Height	Pol.	Azimuth	Corr.	Margin	Limit
[MHz]	[dBμV/m]	[cm]	[H/V]	[deg]	[dB]	[dB]	[dBμV/m]
45.1884	17.41	100.0	V	300.0	19.6	22.59	40.00
91.9332	24.81	107.7	V	80.0	14.7	18.69	43.50
213.2303	17.53	100.0	V	343.0	17.6	25.97	43.50
289.1992	25.22	100.0	H	174.0	20.3	20.78	46.00
456.0915	33.21	100.0	V	215.0	24.3	12.79	46.00
954.6633	32.25	325.1	V	154.0	32.0	13.75	46.00

[[EUT Unfolded + TA] 5G NR n71 High Ch idle]

Full Spectrum



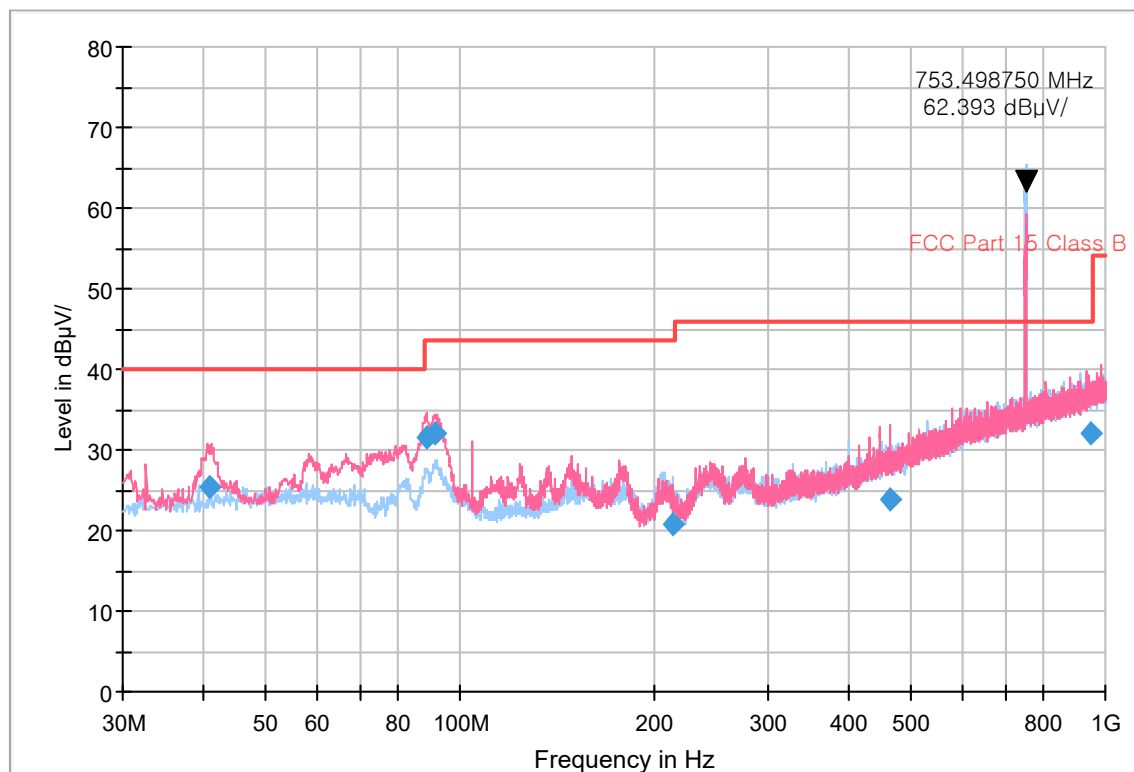
Preview Result 1H-PK+ Preview Result 1V-PK+
FCC Part 15 Class B Final_Result QPK

Carrier Frequency: Rx 649.5875 MHz. These are signals for fundamental frequency from the base station

Frequency	QuasiPeak	Height	Pol.	Azimuth	Corr.	Margin	Limit
[MHz]	[dBμV/m]	[cm]	[H/V]	[deg]	[dB]	[dB]	[dBμV/m]
66.7598	18.92	174.5	V	246.0	18.6	21.08	40.00
88.2945	22.27	107.1	V	2.0	14.7	21.23	43.50
208.3679	21.90	183.3	H	204.0	17.4	21.60	43.50
299.2085	24.94	100.0	H	255.0	20.6	21.06	46.00
455.9247	36.56	125.2	V	205.0	24.3	9.44	46.00
956.5869	32.22	325.1	H	222.0	32.1	13.78	46.00

[[EUT Unfolded + TA] LTE B12(B17)+B13 High Ch idle]

Full Spectrum



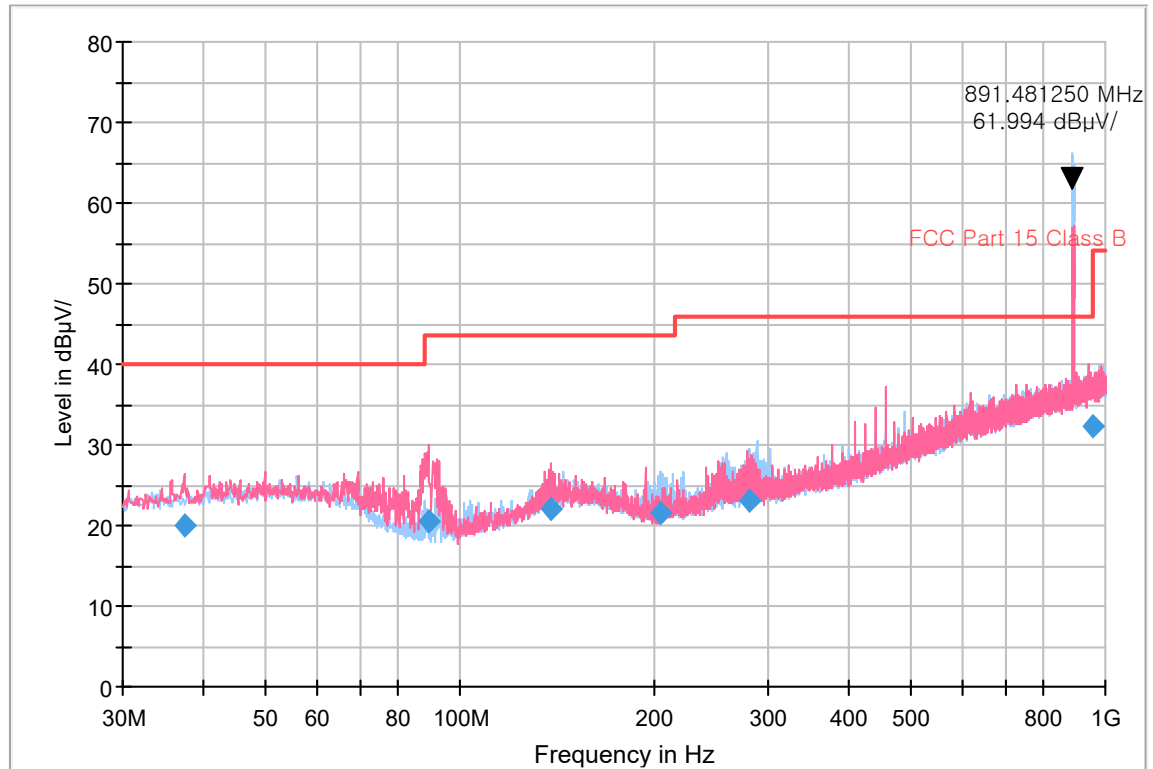
— Preview Result 1H-PK+ — Preview Result 1V-PK+
— FCC Part 15 Class B ◆ Final_Result QPK

Carrier Frequency: Rx 753.4987 MHz. These are signals for fundamental frequency from the base station

Frequency	QuasiPeak	Height	Pol.	Azimuth	Corr.	Margin	Limit
[MHz]	[dBμV/m]	[cm]	[H/V]	[deg]	[dB]	[dB]	[dBμV/m]
40.7877	25.48	107.8	V	144.0	19.2	14.52	40.00
88.4865	31.67	100.0	V	2.0	14.7	11.83	43.50
91.3853	31.98	123.1	V	2.0	14.7	11.52	43.50
213.1840	20.65	174.6	H	227.0	17.6	22.85	43.50
464.4794	23.85	107.9	V	2.0	24.5	22.15	46.00
952.0789	32.02	100.0	H	107.0	32.0	13.98	46.00

[[EUT Unfolded + TA] LTE B26 High Ch idle]

Full Spectrum



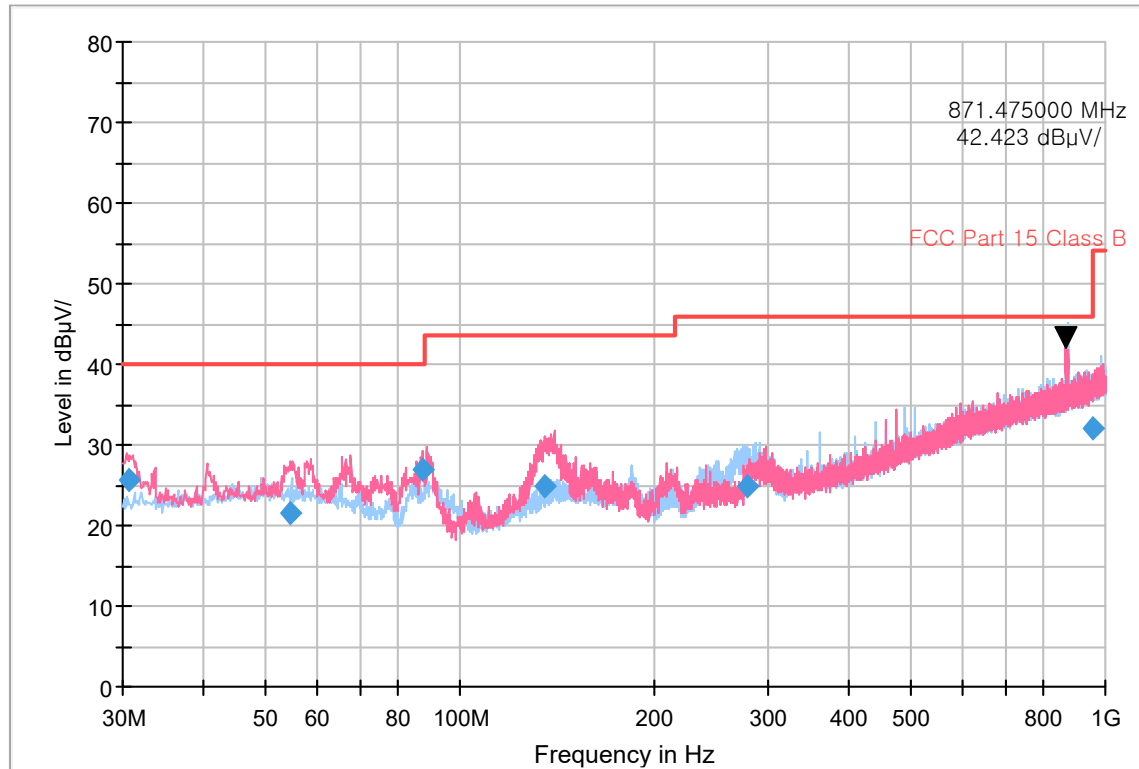
Preview Result 1H-PK+ Preview Result 1V-PK+
FCC Part 15 Class B Final_Result QPK

Carrier Frequency: Rx 891.4812 MHz. These are signals for fundamental frequency from the base station

Frequency	QuasiPeak	Height	Pol.	Azimuth	Corr.	Margin	Limit
[MHz]	[dBμV/m]	[cm]	[H/V]	[deg]	[dB]	[dB]	[dBμV/m]
37.3491	20.09	107.8	V	319.0	19.0	19.91	40.00
89.4080	20.39	123.7	V	15.0	14.6	23.11	43.50
138.0093	22.10	100.0	V	268.0	19.2	21.40	43.50
203.9558	21.65	174.6	H	219.0	17.2	21.85	43.50
280.7796	23.06	123.9	H	37.0	20.0	22.94	46.00
959.2537	32.29	398.6	H	248.0	32.1	13.71	46.00

[[EUT Unfolded + TA] LTE B5+5G NR n5 Low Ch idle]

Full Spectrum



Preview Result 1H-PK+ Preview Result 1V-PK+
FCC Part 15 Class B Final_Result QPK

Carrier Frequency: Rx 871.4750 MHz. These are signals for fundamental frequency from the base station

Frequency	QuasiPeak	Height	Pol.	Azimuth	Corr.	Margin	Limit
[MHz]	[dBμV/m]	[cm]	[H/V]	[deg]	[dB]	[dB]	[dBμV/m]
30.7520	25.67	100.0	V	57.0	18.5	14.33	40.00
54.7269	21.59	100.0	V	312.0	19.9	18.41	40.00
87.4787	27.05	100.0	V	16.0	14.8	12.95	40.00
135.4718	24.82	100.0	V	278.0	18.9	18.68	43.50
277.8600	24.83	125.1	H	212.0	19.9	21.17	46.00
958.1387	32.18	125.0	V	313.0	32.1	13.82	46.00

6.3 Radiated Emission Above 1 GHz

6.3.1 Operating Condition

The test results of radiated emission provide the following information:

Date of Test (yy.mm.dd)	2025.04.28 ~ 2025.04.29						
Temperature	min.	22.1	°C	Relative Humidity	min.	31.5	%
	max.	24.4	°C		max.	36.2	%
Test Site	3 m Semi Anechoic Chamber #1						
Used Test Standard	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014						
Detector	Peak, CISPR-Average						
Bandwidth	1 MHz						
Highest Frequency	7 125 MHz						
Tested Frequency Range	1 GHz to 40 GHz						
Measurement distance	3 m						
Antenna Height	1 m to 4 m						
Operating Mode	[EUT Unfolded + TA]		5G NR n71 High ch Idle				
	[EUT Folded + TA]		5G NR n71 High ch Idle				
	[EUT + Earphone]		5G NR n71 High ch Idle				

NOTE. The worst-case operating mode has been reported.

A field strength is calculated by the following equation.;

$$A = B + C \quad \text{Where}$$

A: Peak or CAverage in dBμV/m (Field strength)

B: Receiver reading in dBμV

C: Corr. in dB (Cable loss + Antenna factor – Amplifier Gain)

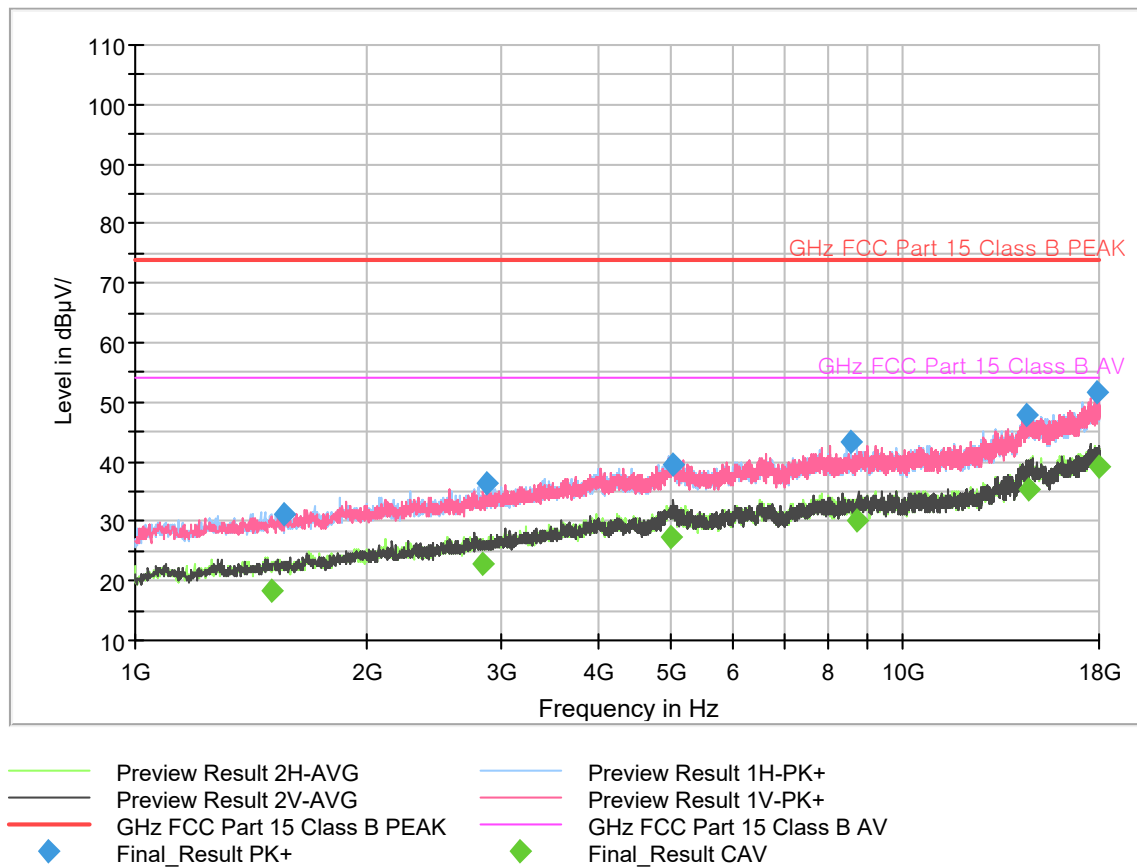
Margin in dB = Limit - A

The measurements' polarities are H and V, where H stands for horizontal and V stands for vertical.

6.3.2 Measurement Data

[1-18 GHz [EUT + Earphone] 5G NR n71 High Ch idle]

Full Spectrum



[Peak]

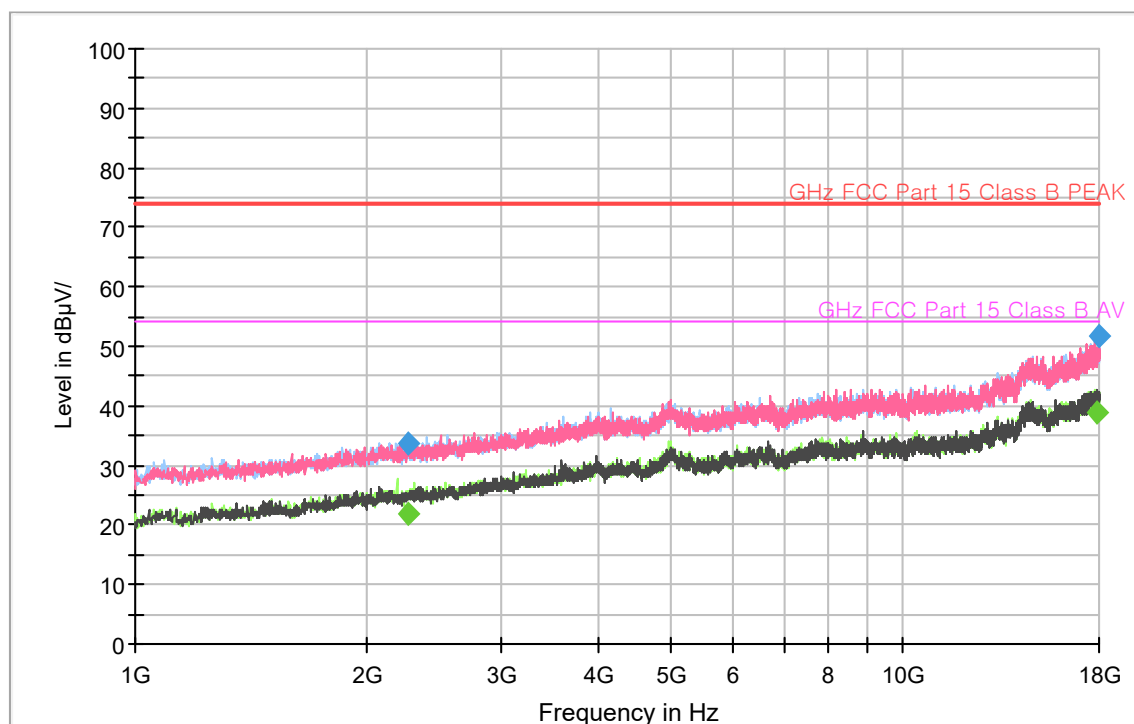
Frequency	Peak	Height	Pol.	Azimuth	Corr.	Margin	Limit
[MHz]	[dBμV/m]	[cm]	[H/V]	[deg]	[dB]	[dB]	[dBμV/m]
1562.8600	31.18	114.3	V	300.0	-28.1	42.82	74.00
2874.5750	36.34	216.6	H	105.0	-21.7	37.66	74.00
5020.5050	39.63	305.7	H	298.0	-14.3	34.37	74.00
8575.3900	43.25	306.2	V	259.0	-8.5	30.75	74.00
14531.9450	47.73	124.9	V	131.0	0.6	26.27	74.00
17902.6950	51.77	283.7	H	25.0	6.6	22.23	74.00

[CAverage]

Frequency	CAverage	Height	Pol.	Azimuth	Corr.	Margin	Limit
[MHz]	[dBμV/m]	[cm]	[H/V]	[deg]	[dB]	[dB]	[dBμV/m]
1506.9050	18.48	274.3	V	77.0	-28.5	35.52	54.00
2839.4350	22.85	274.1	H	34.0	-21.8	31.15	54.00
4974.9650	27.48	125.2	H	89.0	-14.4	26.52	54.00
8710.1050	30.30	274.3	V	0.0	-8.7	23.70	54.00
14567.5250	35.21	108.5	H	336.0	0.6	18.79	54.00
17962.1700	39.20	113.1	H	54.0	6.9	14.80	54.00

[1-18 GHz [EUT Folded + TA] 5G NR n71 High Ch idle]

Full Spectrum



Preview Result 2H-AVG
 Preview Result 2V-AVG
 GHZ FCC Part 15 Class B PEAK
 Final_Result PK+

Preview Result 1H-PK+
 Preview Result 1V-PK+
 GHZ FCC Part 15 Class B AV
 Final_Result CAV+

[Peak]

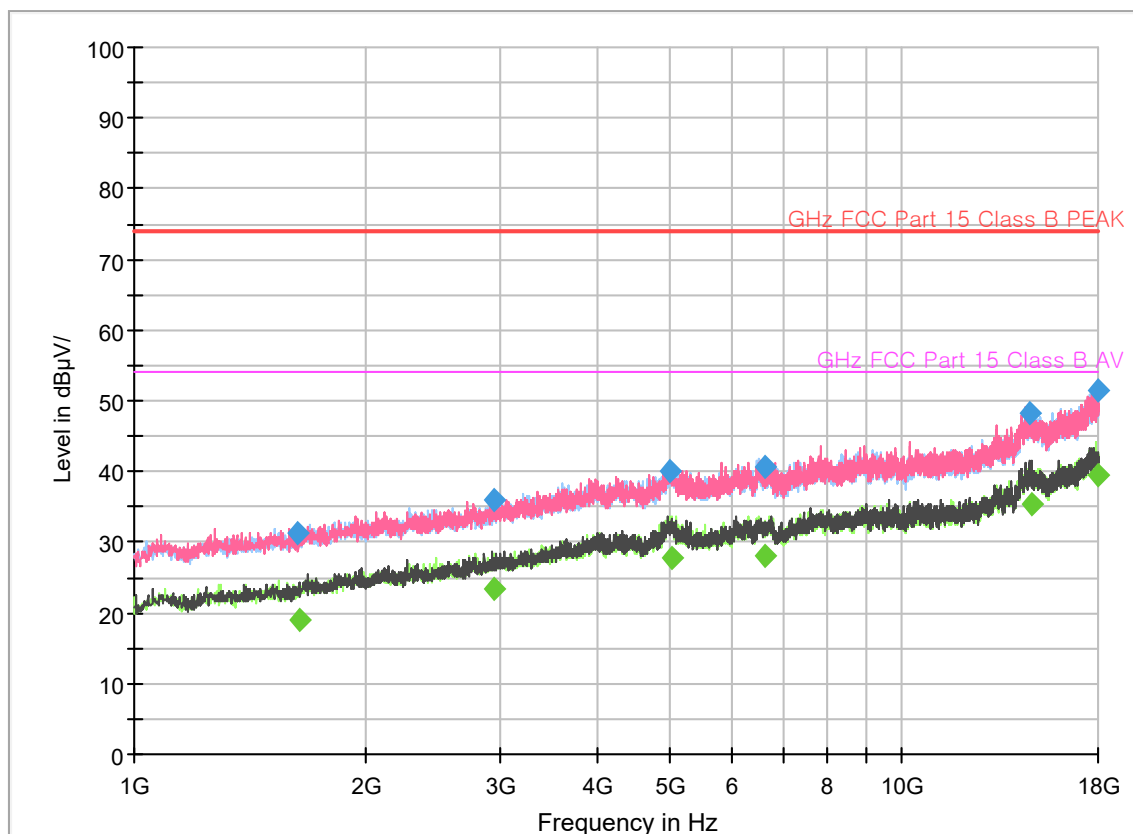
Frequency	Peak	Height	Pol.	Azimuth	Corr.	Margin	Limit
[MHz]	[dBμV/m]	[cm]	[H/V]	[deg]	[dB]	[dB]	[dBμV/m]
2263.9200	33.66	108.1	V	227.0	-24.4	40.34	74.00
17975.3350	51.76	283.5	H	0.0	7.0	22.24	74.00

[CAverage]

Frequency	CAverage	Height	Pol.	Azimuth	Corr.	Margin	Limit
[MHz]	[dBμV/m]	[cm]	[H/V]	[deg]	[dB]	[dB]	[dBμV/m]
2271.3650	21.83	278.0	H	0.0	-24.3	32.17	54.00
17914.5400	38.83	174.2	H	315.0	6.6	15.17	54.00

[1-18 GHz [EUT Unfolded + TA] 5G NR n71 High Ch idle]

Full Spectrum



[Peak]

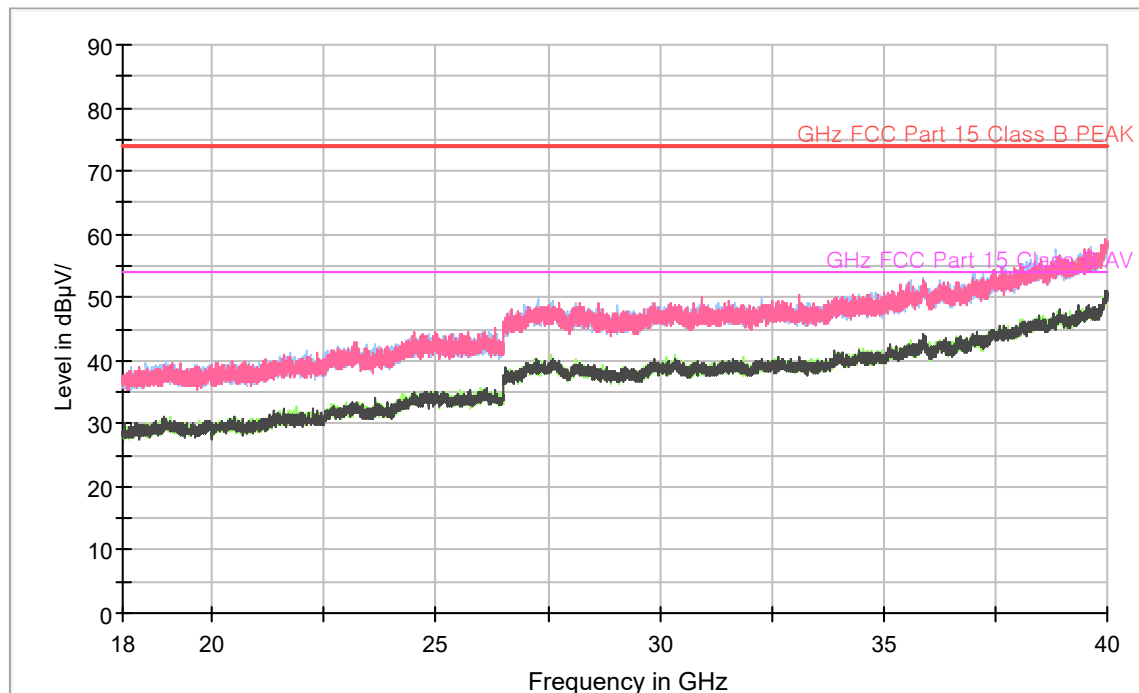
Frequency	Peak	Height	Pol.	Azimuth	Corr.	Margin	Limit
[MHz]	[dBμV/m]	[cm]	[H/V]	[deg]	[dB]	[dB]	[dBμV/m]
1633.6000	31.38	202.7	H	142.0	-27.7	42.62	74.00
2948.2200	35.89	202.6	H	64.0	-21.3	38.11	74.00
4980.0600	40.20	315.1	V	150.0	-14.4	33.80	74.00
6619.6100	40.62	125.2	H	63.0	-11.3	33.38	74.00
14672.8150	48.26	323.3	H	27.0	0.7	25.74	74.00
17975.8283	51.46	310.9	V	206.0	7.0	22.54	74.00

[CAverage]

Frequency	CAverage	Height	Pol.	Azimuth	Corr.	Margin	Limit
[MHz]	[dBμV/m]	[cm]	[H/V]	[deg]	[dB]	[dB]	[dBμV/m]
1645.7100	18.95	120.2	V	101.0	-27.6	35.05	54.00
2935.9600	23.41	274.4	H	346.0	-21.4	30.59	54.00
5026.5150	27.69	183.5	H	204.0	-14.2	26.31	54.00
6637.3950	28.00	284.5	H	167.0	-11.2	26.00	54.00
14758.3250	35.23	278.3	V	2.0	0.8	18.77	54.00
17967.0721	39.38	224.9	H	170.0	6.9	14.62	54.00

[18-40 GHz [EUT + Earphone] 5G NR n71 High Ch idle]

Full Spectrum



- Preview Result 2H-AVG
- Preview Result 2V-AVG
- * Critical_Freqs AVG
- GHz FCC Part 15 Class B PEAK
- ◆ Final_Result PK+
- Preview Result 1H-PK+
- Preview Result 1V-PK+
- * Critical_Freqs PK+
- GHz FCC Part 15 Class B AV
- ◆ Final_Result CAV

[Peak]

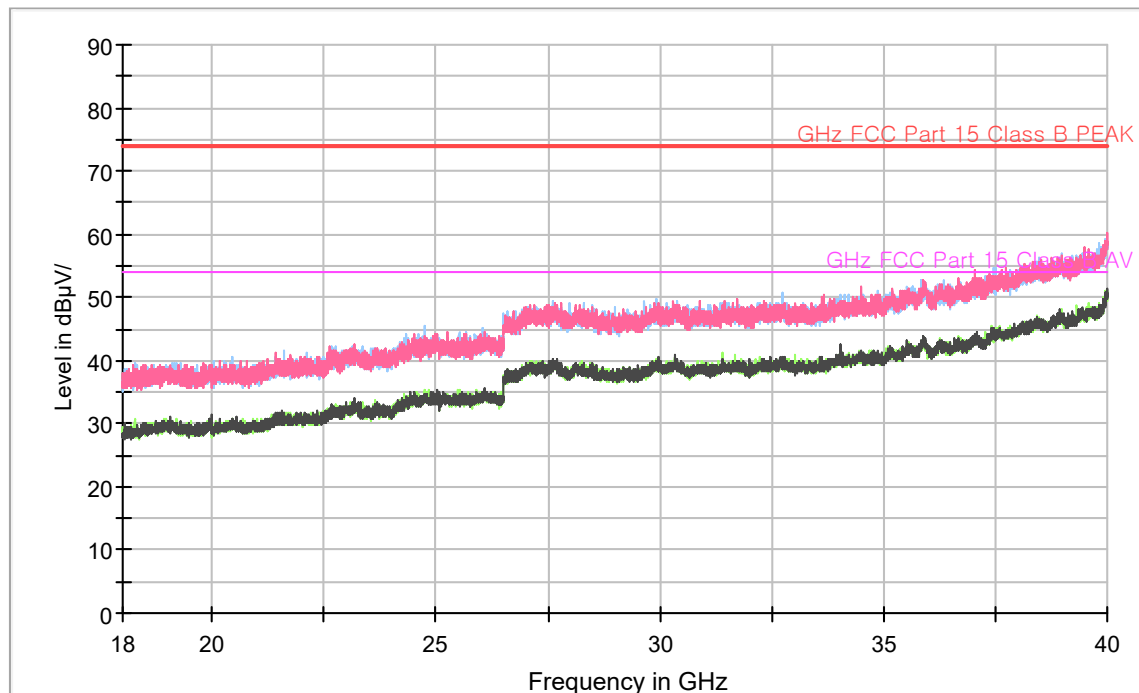
Frequency	Peak	Height	Pol.	Azimuth	Corr.	Margin	Limit
[MHz]	[dBμV/m]	[cm]	[H/V]	[deg]	[dB]	[dB]	[dBμV/m]
-	-	-	-	-	-	-	-

[CAverage]

Frequency	CAverage	Height	Pol.	Azimuth	Corr.	Margin	Limit
[MHz]	[dBμV/m]	[cm]	[H/V]	[deg]	[dB]	[dB]	[dBμV/m]
-	-	-	-	-	-	-	-

[18-40 GHz [EUT Folded + TA] 5G NR n71 High Ch idle]

Full Spectrum



- | | |
|---|---|
| — Preview Result 2H-AVG | — Preview Result 1H-PK+ |
| — Preview Result 2V-AVG | — Preview Result 1V-PK+ |
| * Critical_Freqs AVG | * Critical_Freqs PK+ |
| — GHz FCC Part 15 Class B PEAK | — GHz FCC Part 15 Class B AV |
| ◆ Final_Result PK+ | ◆ Final_Result CAV |

[Peak]

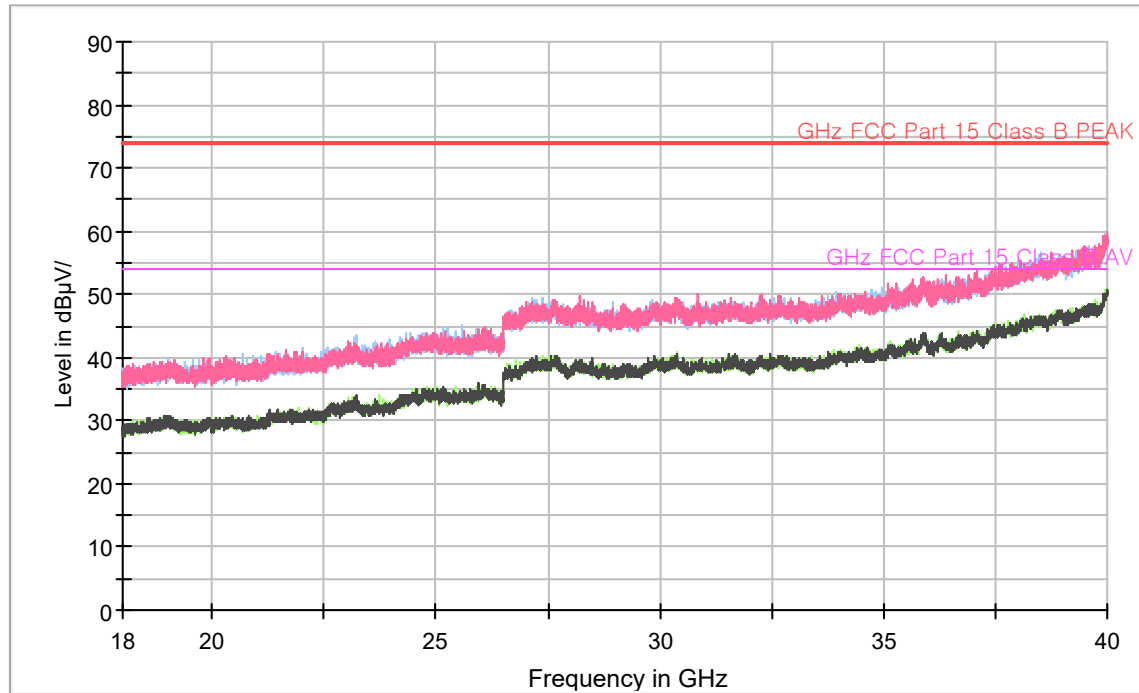
Frequency	Peak	Height	Pol.	Azimuth	Corr.	Margin	Limit
[MHz]	[dBμV/m]	[cm]	[H/V]	[deg]	[dB]	[dB]	[dBμV/m]
-	-	-	-	-	-	-	-

[CAverage]

Frequency	CAverage	Height	Pol.	Azimuth	Corr.	Margin	Limit
[MHz]	[dBμV/m]	[cm]	[H/V]	[deg]	[dB]	[dB]	[dBμV/m]
-	-	-	-	-	-	-	-

[18-40 GHz [EUT Unfolded + TA] 5G NR n71 High Ch idle]

Full Spectrum



Preview Result 2H-AVG	Preview Result 1H-PK+
Preview Result 2V-AVG	Preview Result 1V-PK+
* Critical_Freqs AVG	* Critical_Freqs PK+
GHz FCC Part 15 Class B PEAK	GHz FCC Part 15 Class B AV
◆ Final_Result PK+	◆ Final_Result CAV

[Peak]

Frequency	Peak	Height	Pol.	Azimuth	Corr.	Margin	Limit
[MHz]	[dBμV/m]	[cm]	[H/V]	[deg]	[dB]	[dB]	[dBμV/m]
-	-	-	-	-	-	-	-

[CAverage]

Frequency	CAverage	Height	Pol.	Azimuth	Corr.	Margin	Limit
[MHz]	[dBμV/m]	[cm]	[H/V]	[deg]	[dB]	[dB]	[dBμV/m]
-	-	-	-	-	-	-	-

APPENDIX A. TEST SETUP PHOTO

Please refer to Appendix. A and test setup photo file no. as follows;

File No.	Date of Issue	Description
HCT-EM-2504-FC003-P	April 30, 2025	Initial Release

End of report