



Spot Check Evaluation

APPLICANT : FCNT LLC.
EQUIPMENT : Mobile cellular phone
BRAND NAME : arrows We2
MODEL NAME : A402FC
FCC ID : 2BEPUFMP200
STANDARD : 47 CFR Part 2, 22, 24, 27
47 CFR Part 15 Subpart C §15.225
47 CFR Part 15 Subpart C §15.247
47 CFR Part 15 Subpart E §15.407
TEST DATE(S) : May 31, 2024 ~ Jun. 13, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

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TABLE OF CONTENTS

REVISION HISTORY	3
1 GENERAL DESCRIPTION	4
1.1 Applicant	4
1.2 Manufacturer	4
1.3 Product Feature of Equipment Under Test	4
1.4 Modification of EUT	4
1.5 Testing Site	5
1.6 Test Software	5
1.7 Applicable Standards	5
2 RE-USE OF MEASURED DATA	6
2.1 Introduction Section	6
2.2 Model Difference Information	6
2.3 Reference detail Section:	7
2.4 Spot Check Verification Data Section	8
3 LIST OF MEASURING EQUIPMENT	12
4 MEASUREMENT UNCERTAINTY	15
APPENDIX A. RADIATED SPURIOUS EMISSION (SIMULTANEOUS MODE)	
APPENDIX B. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
3D0613-06	Rev. 01	Initial issue of report	Aug. 23, 2024

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Applicant

FCNT LLC.

Sanki Yamato Bldg. 3F, 7-10-1, Chuorinkan, Yamato-shi, Kanagawa, 242-0007, Japan

1.2 Manufacturer

FCNT LLC.

Sanki Yamato Bldg. 3F, 7-10-1, Chuorinkan, Yamato-shi, Kanagawa, 242-0007, Japan

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile cellular phone
Brand Name	arrows We2
Model Name	A402FC
FCC ID	2BEPUFMP200
IMEI Code	Conducted: 355117620005325/355117620005333 Radiation: 355117620005002/355117620005010 Conduction: 355117620005028/355117620005036
HW Version	V4
SW Version	sys_mssi_yamato-userdebug 14 UP1A.231005.007 37 release-keys
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Modification of EUT

No modifications are made to the EUT during all test items.

1.5 Testing Site

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH02-KS 03CH06-KS 03CH04-KS TH01-KS	CN1257	314309

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH02-KS	AUDIX	E3	6.2009-8-24al
3.	03CH04-KS	AUDIX	E3	210616
4.	03CH06-KS	AUDIX	E3	210616
5.	CO01-KS	AUDIX	E3	6.2009-8-24

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC KDB 484596 D01 Referencing Test Data v02r03
- 47 CFR Part 2, 22, 24, 27
- 47 CFR Part 15 Subpart C §15.225
- 47 CFR Part 15 Subpart C §15.247
- 47 CFR Part 15 Subpart E §15.407
- ANSI C63.10-2013
- ANSI C63.26-2015

2 Re-use of Measured Data

2.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: A402FC, FCC ID: 2BEPUFMP200) is electrically identical to the reference device (Model: F-52E, FCC ID: 2BEPUFMP195) for the portions of the circuitry corresponding to the data being re-used, following the FCC KDB 484596 D01 Referencing Test Data v02r03.

ECR Data Referencing Inquiry has been approved by FCC, and the data referencing and spot check test plan includes RF/EMC, the details are presented in section 2.3 of this report, and for SAR Reference detail, please refer to FCC SAR report FA3D0613-06.

The criteria set in section 3 of KDB 484596 D01 v02r03 is followed to determine whether the data referencing is justified. For SAR, the higher between the referenced value and the spot check value is used to determine compliance in both standalone and simultaneous transmission conditions

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: 2BEPUFMP200 .

2.2 Model Difference Information

The **main** difference between FCC ID: 2BEPUFMP195 and FCC ID: 2BEPUFMP200 is as below:

- Remove LTE B39 and 5G NR n79.
- Add WCDMA Band II/IV/VIII, LTE B2/4/38 and 5G NR n3/n41.
- Change PA for 5G NR n77/n78.

Other differences and all the details of similarity and difference can be found in the confidential documents (2BEPUFMP200 Operational Description of Product Equality Declaration).



2.3 Reference detail Section:

Rule Part	Equipment Class	Frequency Band (MHz)	Reference FCC ID (Parent)	Reference on test	Reference Title	FCC ID Filling (Variant)	Test on the variant	Data Referencing (Y/N)
15C	DSS (BR/EDR)	2400~2483.5	2BEPUFMP195	Full test	FR3D0613-04A	2BEPUFMP200	Spot check	Y, All test items
	DTS (BLE)	2400~2483.5	2BEPUFMP195	Full test	FR3D0613-04B	2BEPUFMP200	Spot check	Y, All test items
	DTS (WLAN)	2400~2483.5	2BEPUFMP195	Full test	FR3D0613-04C	2BEPUFMP200	Spot check	Y, All test items
	DXX (NFC)	13.56	2BEPUFMP195	Full test	FR3D0613-04D	2BEPUFMP200	Spot check	Y, All test items
15E	U-NII	5180~5240	2BEPUFMP195	Full test	FR3D0613-04E	2BEPUFMP200	Spot check	Y, All test items
		5260~5320	2BEPUFMP195	Full test	FR3D0613-04E	2BEPUFMP200	Spot check	Y, All test items
		5500~5720	2BEPUFMP195	Full test	FR3D0613-04E	2BEPUFMP200	Spot check	Y, All test items
		5745~5825	2BEPUFMP195	Full test	FR3D0613-04E	2BEPUFMP200	Spot check	Y, All test items
		5260~5320 5500~5720	2BEPUFMP195	Full test	FZ3D0613-04	2BEPUFMP200	Spot check	Y, All test items
22, 24, 27,	PCE (GSM)	GSM 850/1900	2BEPUFMP195	Full test	FG3D0613-04A	2BEPUFMP200	Spot check	Y, All test items
	PCE (WCDMA)	Band V	2BEPUFMP195	Full test	FG3D0613-04A	2BEPUFMP200	Spot check	Y, All test items
	PCE (LTE)	Band 5/12/41/42	2BEPUFMP195	Full test	FG3D0613-04B FG3D0613-04C	2BEPUFMP200	Spot check	Y, All test items

Y: Pointer to spot-check exhibit; N: Pointer to full test exhibit

2.4 Spot Check Verification Data Section

All test items test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

All test procedures follow the related section of parent report.

Spot-check measurements, while being always compliant with the applicable rule part(s) for the test under consideration, show a deviation d_{dB} from the reference data no larger than 3 dB:

$$d_{dB} = |V_{dB} - R_{dB}| \leq 3 \text{ dB} \quad (1)$$

V_{dB} , the variant spot-check level

R_{dB} , the corresponding measurement level for the reference model

An alternative to the limit of eq. (1) is available, and is based on considering how far the reference data R_{dB} is from the compliance threshold C_{dB} (also expressed in dB), for the particular test under consideration. In this case, if $M_{dB} = |C_{dB} - R_{dB}|$ is the margin in dB from the compliance limit, a spot check may be considered acceptable when the deviation d_{dB} from the reference data satisfies the following condition:

$$d_{dB} = |V_{dB} - R_{dB}| \leq (3 + M_{dB} / 20) \text{ dB} , \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \quad (2)$$

$$d_{dB} = |V_{dB} - R_{dB}| = 6 \text{ dB} , \text{ for } M_{dB} > 60 \text{ dB}$$

where “| |” is the absolute value of the measured quantity.

When using the option in eq. (2), d_{dB} increases linearly from 3 dB to 6 dB.

Summary for spot check for each rule entry and technology is listed as below:

Mode	Test Item	2BEPUFMP195 Parent Worst Result	2BEPUFMP200 Variant Spot Check	Deviation (dB)	Deviation Limit (dB)
BT 1Mbps (CH00)	Number of Channels (N)	79	79	0.00	3
	Hopping Channel Separation (MHz)	0.996	1.003	0.01	3
	Dwell Time of Each Channel(s)	0.31	0.31	0.00	3
	20dB Bandwidth(MHz)	0.86	0.86	0.00	3
	99% Bandwidth(MHz)	0.758	0.76	0.002	3
	Conducted Band Edges(dBm)	-44.92	-43.03	1.89	3
	Conducted Spurious Emission(dBm)	-48.59	-47.66	0.93	3
	Radiated Band Edges and Radiated Spurious Emission (dBuV/m)	57.32	55.37	1.95	3
	AC Conducted Emission (dBuV)	12.46	10.79	1.67	3
BLE 1Mbps (CH39)	6dB Bandwidth (MHz)	0.69	0.68	0.01	3
	99% Bandwidth (MHz)	1.035	1.031	0.00	3
	Power Spectral Density (dBm/3KHz)	-8.62	-9.22	0.60	3
	Conducted Band Edges and Spurious Emission (dBm)	-44.54	-41.69	2.85	3



	Conducted Spurious Emission (dBm)	-48.99	-47.22	1.77	3
	AC Conducted Emission (dBuV)	12.46	10.79	1.67	3
BLE 2Mbps (CH38)	Radiated Band Edges and Spurious Emission (dBuV/m)	45.04	44.87	0.17	3
WIFI 2.4G (802.11n40 CH9)	6dB Bandwidth (MHz)	35.12	35.12	0.00	3
	99% Bandwidth (MHz)	36.603	36.46	0.14	3
	Power Spectral Density (dBm/3KHz)	-15.41	-14.43	0.98	3
	Conducted Band Edges and Spurious Emission (dBm)	-28.53	-30.66	2.13	3
	Conducted Spurious Emission (dBm)	-48.39	-46.78	1.61	3
	Radiated Band Edges and Spurious Emission (dBuV/m)	70.97	69.07	1.9	3
	AC Conducted Emission (dBuV)	12.46	10.79	1.67	3
Part 15C NFC	20dB Emission Bandwidth (MHz)	2.49	2.49	0.00	3
	99% Occupied Bandwidth (MHz)	2.11	2.11	0.00	3
	Field Strength of Fundamental (dBuV/m)	13.560594	13.560586	0.00	3
	Radiated Spurious Emissions (dBuV/m)	52.3	53.08	-0.78	3
	AC Conducted Emission (dBuV)	15.72	12.27	3.45	3
WIFI 5G (802.11a40 CH134)	26dB Emission Bandwidth (MHz)	40.60	41.55	0.95	3
	99% Occupied Bandwidth (MHz)	36.523	37.76	1.24	3
	Power Spectral Density (dBm/MHz)	-3.06	-3.11	0.05	3
	AC Conducted Emission (dBuV)	15.56	12.36	3.2	3
WIFI 5G (802.11ac80 CH58)	Radiated Band Edges and Spurious Emission (dBuV/m)	46.16	46.10	0.06	3
802.11ac40 CH151	Radiated Band Edges and Spurious Emission (dBuV/m)	55.90	56.18	0.28	3
Part 22/24/27 (GSM850/1900)	Peak-to-Average Ratio (dB)	0.17	0.12	0.05	3
	Occupied Bandwidth (MHz)	0.244	0.243	0.00	3
	Conducted Band Edge (dBm)	-18.36	-19.26	0.90	3
	Conducted Spurious Emission (dBm)	-27.23	-29.88	2.65	3
	Frequency Stability (ppm)	0.0032	0.0011	0.00	3
	Radiated Spurious Emission (dBm)	-40.23	-42.1	1.87	3
WCDMA B5	Radiated Spurious Emission (dBm)	-46.87	-47.42	0.55	3
LTE B5/12/41/42	Radiated Spurious Emission (dBm)	-42.78	-41.04	1.74	3



Test Item	Mode	2BEPUFMP195 Parent Worst Result	2BEPUFMP200 Variant Spot Check	Deviation (dB)	Deviation Limit (dB)
Conducted Power (dBm)	BT BR/EDR	13.45	13.01	0.44	3
	BLE 1Mbps	5.95	5.38	0.57	3
	BLE 2Mbps	5.70	5.49	0.21	3
	11b, 2.4GHz	14.04	13.81	0.23	3
	11g, 2.4GHz	21.03	20.93	0.1	3
	11n HT20, 2.4GHz	22.12	22	0.12	3
	11n HT40, 2.4GHz	22.21	21.94	0.27	3
	11a, 5.2GHz	10.73	9.89	0.84	3
	11a, 5.3GHz	10.7	9.9	0.8	3
	11a, 5.5GHz	10.78	9.71	1.07	3
	11a, 5.8GHz	10.67	9.99	0.68	3
	11n HT20, 5.2GHz	10.54	9.77	0.77	3
	11n HT20, 5.3GHz	10.57	9.74	0.83	3
	11n HT20, 5.5GHz	10.6	9.93	0.67	3
	11n HT20, 5.8GHz	10.58	9.76	0.82	3
	11ac VHT20, 5.2GHz	10.6	9.81	0.79	3
	11ac VHT20, 5.3GHz	10.64	9.77	0.87	3
	11ac VHT20, 5.5GHz	10.69	9.96	0.73	3
	11ac VHT20, 5.8GHz	10.63	9.8	0.83	3
	11n HT40, 5.2GHz	10.71	9.77	0.94	3
	11n HT40, 5.3GHz	10.73	9.88	0.85	3
	11n HT40, 5.5GHz	10.84	10.21	0.63	3
	11n HT40, 5.8GHz	10.74	9.91	0.83	3
	11ac VHT40, 5.2GHz	10.74	9.8	0.94	3
	11ac VHT40, 5.3GHz	10.75	9.9	0.85	3
	11ac VHT40, 5.5GHz	10.86	10.23	0.63	3
	11ac VHT40, 5.8GHz	10.78	9.94	0.84	3
	11ac VHT80, 5.2GHz	10.28	9.21	1.07	3
	11ac VHT80, 5.3GHz	10.31	9.36	0.95	3
	11ac VHT80, 5.5GHz	10.35	9.6	0.75	3
	11ac VHT80, 5.8GHz	10.22	9.4	0.82	3
	GSM 850	28.87	28.77	0.1	3
	GSM 1900	26.22	26.01	0.21	3
	WCDMA 850	23.34	23.05	0.29	3
	LTE B5	23.26	23.12	0.14	3
	LTE B12	23.17	23.02	0.15	3
	LTE B41	18.30	18.05	0.25	3
	LTE B42	15.92	15.45	0.47	3

**Conclusion:**

All test items test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model. All spot check test data are shown within expected level compliant to limit line.

We are using power and ERP/EIRP measurements from the original parent model reports to list on the grant.

The same detection mechanism/software/antenna gain is used in the variant of DFS. Hence, all test cases refer to parent report.

We confirm that the test data referencing policy of FCC KDB 484596 D01 Referencing Test Data v02r03 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.



3 List of Measuring Equipment

For Part 15_BT/WIFI:

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Jun. 13, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Jun. 13, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2024	Jun. 13, 2024	Jan. 01, 2025	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz; Max 30dBm	Oct. 10, 2023	May 31, 2024 ~Jun. 07, 2024	Oct. 09, 2024	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY60242126	10Hz~44GHz	Oct. 10, 2023	May 31, 2024 ~Jun. 07, 2024	Oct. 09, 2024	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 10, 2023	May 31, 2024 ~Jun. 07, 2024	Oct. 09, 2024	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz~1GHz	Apr. 08, 2024	May 31, 2024 ~Jun. 07, 2024	Apr. 07, 2025	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 08, 2024	May 31, 2024 ~Jun. 07, 2024	Apr. 07, 2025	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 05, 2024	May 31, 2024 ~Jun. 07, 2024	Jan. 04, 2025	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	380827	9KHz ~1GHZ	Jul. 06, 2023	May 31, 2024 ~Jun. 07, 2024	Jul. 05, 2024	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 04, 2024	May 31, 2024 ~Jun. 07, 2024	Jan. 03, 2025	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2082395	1Ghz-18Ghz	Jan. 04, 2024	May 31, 2024 ~Jun. 07, 2024	Jan. 03, 2025	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270319	500MHz~26.5GHz	Oct. 10, 2023	May 31, 2024 ~Jun. 07, 2024	Oct. 09, 2024	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	May 31, 2024 ~Jun. 07, 2024	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	May 31, 2024 ~Jun. 07, 2024	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	May 31, 2024 ~Jun. 07, 2024	NCR	Radiation (03CH06-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 15, 2024	Jun. 04, 2024	May 14, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2023	Jun. 04, 2024	Oct. 10, 2024	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 15, 2024	Jun. 04, 2024	May 14, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2023	Jun. 04, 2024	Oct. 10, 2024	Conduction (CO01-KS)

NCR: No Calibration Required.

**For Part 15_NFC:**

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Max 30dBm	Oct. 10, 2023	Jun. 03, 2024	Oct. 09, 2024	Radiation (03CH02-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Oct.. 11 2023	Jun. 03, 2024	Oct.. 10, 2024	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 20, 2023	Jun. 03, 2024	Dec. 19, 2024	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	380826	9KHz-1GHz	Jul 06, 2023	Jun. 03, 2024	Jul 05, 2024	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Jun. 03, 2024	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jun. 03, 2024	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jun. 03, 2024	NCR	Radiation (03CH02-KS)
EMI Receiver	R&S	ESC17	100768	9kHz~7GHz;	May 15, 2024	Jun. 04, 2024	May 14, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2023	Jun. 04, 2024	Oct. 10, 2024	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 15, 2024	Jun. 04, 2024	May 14, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2023	Jun. 04, 2024	Oct. 10, 2024	Conduction (CO01-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Jun. 13, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 06, 2023	Jun. 13, 2024	Jul. 05, 2024	Conducted (TH01-KS)

**For Part 22/24/27_WWAN Bands:**

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Jun. 13, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Jun. 13, 2024	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 06, 2023	Jun. 13, 2024	Jul. 05, 2024	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G, MAX 30dB	Oct. 10, 2023	Jun. 07, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11 2023	Jun. 07, 2024	Sep. 10, 2024	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Apr. 08, 2024	Jun. 07, 2024	Apr. 07, 2025	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00251694	1GHz~18GHz	Jul. 12, 2023	Jun. 07, 2024	Jul. 11, 2024	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2024	Jun. 07, 2024	Jan. 04, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380827	9KHz-1GHz	Jul. 06, 2023	Jun. 07, 2024	Jul. 05, 2024	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2024	Jun. 07, 2024	Jan. 04, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 10, 2023	Jun. 07, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 10, 2023	Jun. 07, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 07, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 07, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 07, 2024	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

4 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement (BT/WIFI2.4G/5G)

Conducted Spurious Emission & Bandedge	±2.26 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.46 dB
Conducted Power Spectral Density	±0.88 dB
Frequency	±0.4 ppm

Uncertainty of Conducted Measurement (NFC)

Test Item	Uncertainty
Occupied Channel Bandwidth	±0.1%
Frequency	±0.4 ppm

Uncertainty of Conducted Measurement (DFS)

Conducted Generated signal Levels	±0.56 dB
Conducted Time	0.38%

Uncertainty of Conducted Measurement (WWAN)

Conducted Spurious Emission & Bandedge	±2.26 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.46 dB
Peak to Average Ratio	±0.46 dB
Frequency Stability	±0.4 Hz

**Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)**

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.84dB
---	--------

03CH06-KS(BT/WIF):

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.30dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	6.06dB
---	--------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.18dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.38dB
---	--------

**03CH02-KS(NFC):****Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)**

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.30 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.04 dB
---	---------

03CH04-KS(WWAN):**Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)**

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.83dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.83dB
---	--------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.82dB
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---- THE END ----



Appendix A. Radiated Spurious Emission Test Data

Test Engineer :	Wenbo Xiao	Relative Humidity :	50%
		Temperature :	20°C~22°C

Radiated Spurious Emission Test Modes(Simultaneously Mode)

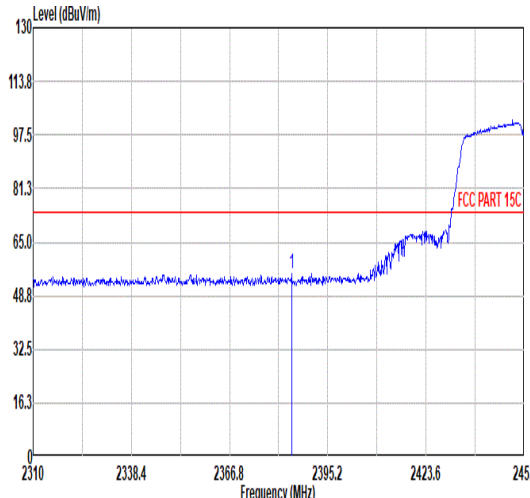
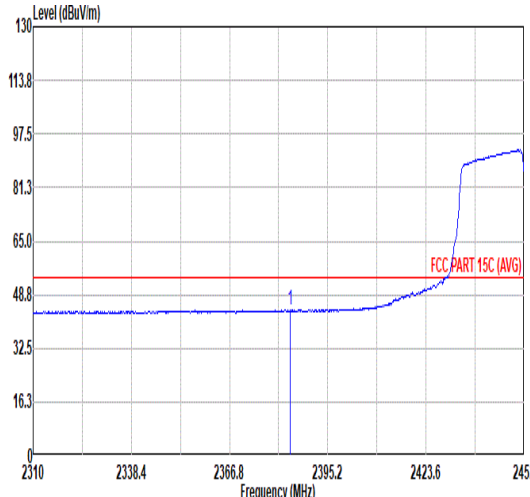
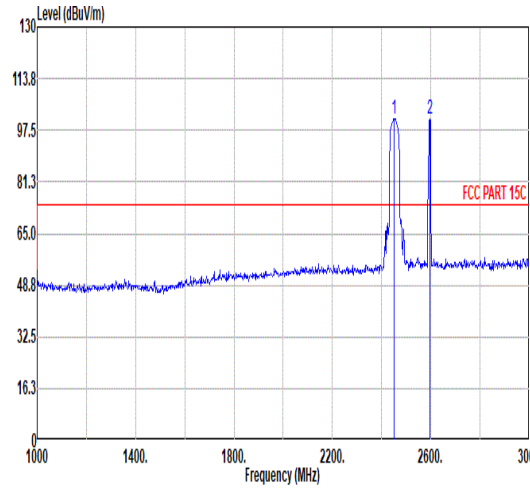
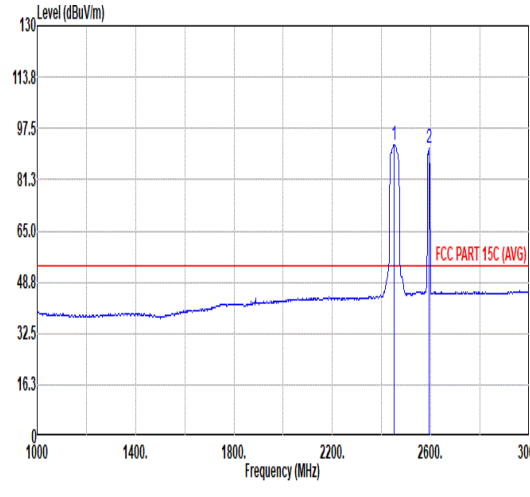
Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	6	802.11n HT40	9	2452	MCS0	-	-
+ Part 27M B38 BW=20M 1RB0 QPSK								

Summary of each worse mode(Simultaneously Mode)

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11n HT40	9	2484.69	50.02	54.00	-3.98	H	AVERAGE	Pass	Band Edge
1	802.11n HT40	9	7356.00	43.78	74.00	-30.22	H	PEAK	Pass	Harmonic

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Pol.	Result	Remark
1	4G B38 Link BW=20M,QPSK,1RB0	Middle	7752.00	-34.45	-25	-9.45	H	Pass	Harmonic

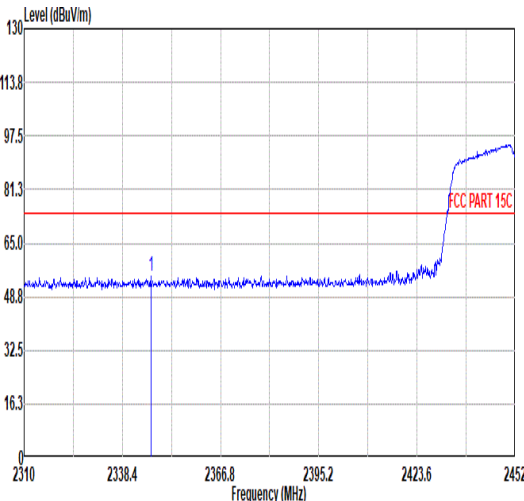
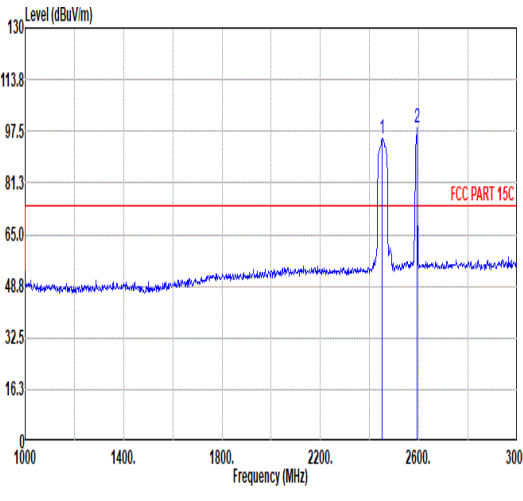
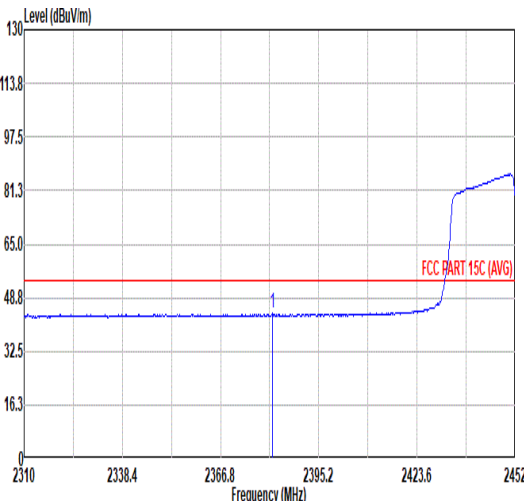
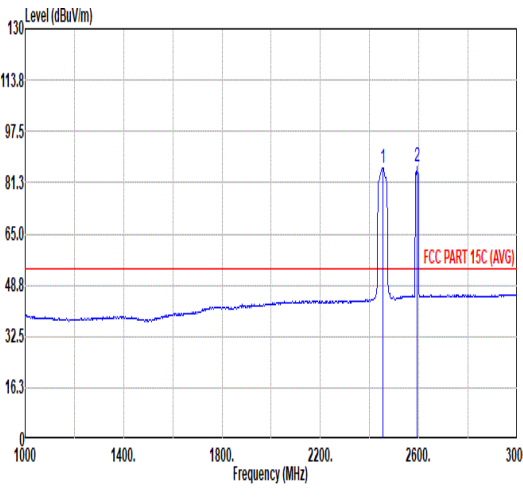


Mode	1																																																																			
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	802.11n HT40_CH9_2452MHz																																																																			
ANT	6																																																																			
Pol.	Horizontal																																																																			
Peak																																																																				
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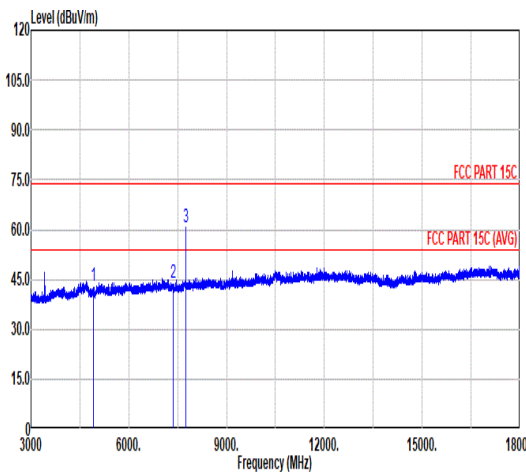
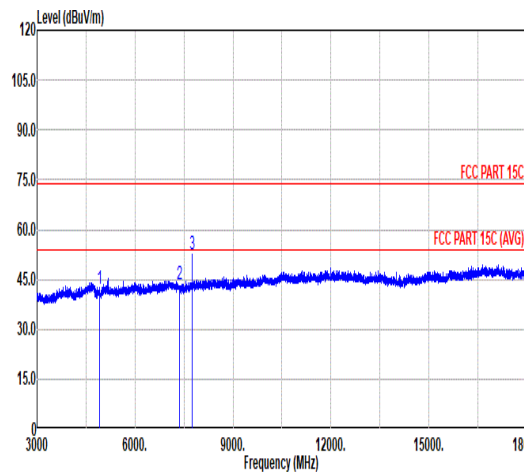


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Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark																																																																																												
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																												
1	2346.64	55.10	74.00	-18.90	43.07	31.69	6.54	32.20	6.00	295	116 PEAK																																																																																											
	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																													
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark																																																																																												
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																												
1	2450.00	95.28	-----	82.90	31.90	6.69	32.21	6.00	295	116 Peak																																																																																												
2	2592.00	98.60	-----	85.24	32.72	6.88	32.24	6.00	295	116 Peak																																																																																												
Avg	 Vertical Average Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot shows a blue line representing the average spectrum, with a red horizontal line at 48.8 dBuV/m labeled 'FCC PART 15C (AVG)'. A peak is marked at 2381.85 MHz with a level of 43.92 dBuV/m. <table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2381.85</td><td>43.92</td><td>54.00</td><td>-10.08</td><td>31.76</td><td>31.76</td><td>6.59</td><td>32.19</td><td>6.00</td><td>295</td><td>116 AVERAGE</td></tr></table>		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2381.85	43.92	54.00	-10.08	31.76	31.76	6.59	32.19	6.00	295	116 AVERAGE	 Fundamental Average Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot shows a blue line representing the average spectrum, with a red horizontal line at 48.8 dBuV/m labeled 'FCC PART 15C (AVG)'. Two peaks are marked at 2454.00 MHz (level 86.03 dBuV/m) and 2592.00 MHz (level 86.19 dBuV/m). <table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2454.00</td><td>86.03</td><td>-----</td><td>73.64</td><td>31.91</td><td>6.69</td><td>32.21</td><td>6.00</td><td>295</td><td>116 Average</td></tr><tr><td>2</td><td>2592.00</td><td>86.19</td><td>-----</td><td>72.83</td><td>32.72</td><td>6.88</td><td>32.24</td><td>6.00</td><td>295</td><td>116 Average</td></tr></table>		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2454.00	86.03	-----	73.64	31.91	6.69	32.21	6.00	295	116 Average	2	2592.00	86.19	-----	72.83	32.72	6.88	32.24	6.00	295	116 Average
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Pol.	Vertical																																																							
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