



Spot Check Evaluation

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2503-4, XT2505-1
FCC ID : IHDT56AU8
STANDARD : 47 CFR Part 2, 22, 24, 27, 90S
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) : Jan. 03, 2025 ~ Jan. 23, 2025

We, Sporton International Inc. (ShenZhen), 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.

This report contains data that were produced under subcontract by Sporton International Inc. (KunShan)

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

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG4D1311-01J	Rev. 01	Initial issue of report	Feb. 10, 2025

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

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2503-4, XT2505-1
FCC ID	IHDT56AU8
IMEI Code	Conducted/DFS: 357706750005150/357706750005168 Radiation: 357706750006133/357706750006141 Conduction: 357706750006158/357706750006166
HW Version	DVT2
SW Version	V2VC35.13
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. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ DFS01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH01-SZ	CN1256	421272

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 03CH08-KS	CN1257	314309

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	CO01-KS	AUDIX	E3	6.2009-8-24
2.	03CH02-KS	AUDIX	E3	6.2009-8-24a1
3.	03CH08-KS	AUDIX	E3	210616
4.	03CH01-SZ	AUDIX	E3	6.2009-8-24
5.	DFS01-SZ	Sporton	Test Tools	1.0

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, 90S
- 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

1.8 Specification of Accessory

Accessories Information				
AC Adapter 1(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-681N
AC Adapter 1(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-682N
AC Adapter 1(UK)	Brand Name	Motorola(Chenyang)	Model Name	MC-683N
AC Adapter 1(AU)	Brand Name	Motorola(Chenyang)	Model Name	MC-685N
AC Adapter 1(AR)	Brand Name	Motorola(Chenyang)	Model Name	MC-686N
AC Adapter 1(BR)	Brand Name	Motorola(Chenyang)	Model Name	MC-687N
AC Adapter 1(CHILE)	Brand Name	Motorola(Chenyang)	Model Name	MC-689N
AC Adapter 2(US)	Brand Name	Motorola(Acbel)	Model Name	MC-681N
AC Adapter 2(EU)	Brand Name	Motorola(Acbel)	Model Name	MC-682N
AC Adapter 2(UK)	Brand Name	Motorola(Acbel)	Model Name	MC-683N
AC Adapter 2(AU)	Brand Name	Motorola(Acbel)	Model Name	MC-685N
AC Adapter 2(AR)	Brand Name	Motorola(Acbel)	Model Name	MC-686N
AC Adapter 2(BR)	Brand Name	Motorola(Acbel)	Model Name	MC-687N
AC Adapter 2(CHILE)	Brand Name	Motorola(Acbel)	Model Name	MC-689N
Battery 1	Brand Name	Motorola(ATL)	Model Name	RM52
Battery 2	Brand Name	Motorola(Cosmx)	Model Name	RM52
Earphone	Brand Name	Motorola(Lyand)	Model Name	MI181C
USB Cable 1	Brand Name	Motorola(saibao)	Model Name	SC18D71644
USB Cable 2	Brand Name	Motorola(Luxshare)	Model Name	SC18E08104
USB Cable 3	Brand Name	Motorola(saibao)	Model Name	SC18D86731
USB Cable 4	Brand Name	Motorola(Luxshare)	Model Name	SC18E08103



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: XT2503-4, XT2505-1, FCC ID: IHDT56AU8) is electrically identical to the reference device (Model: XT2503-1, XT2505-3, FCC ID: IHDT56AU7) 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 FA4D1311-01.

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: IHDT56AU8 .

2.2 Model Difference Information

The **main** difference between FCC ID: IHDT56AU7 and FCC ID: IHDT56AU8 is as below:

- Remove WCDMA B4, LTE B4/12/13/17/66 and 5G NR n2/n66.
- Add LTE B18/19/20/32/43/71, 5G NR n20/n71/n75.
- Add n5 NSA mode and n41 SA mode.
- LTE B41, 5G NR n77/N78 upgraded to PC2 via software.

Other differences and all the details of similarity and difference can be found in the confidential documents (IHDT56AU8 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	IHDT56AU7	Full test	FR4D1311A	IHDT56AU8	Spot check	Y, All test items
	DTS (BLE)	2400~2483.5	IHDT56AU7	Full test	FR4D1311B	IHDT56AU8	Spot check	Y, All test items
	DTS (WLAN)	2400~2483.5	IHDT56AU7	Full test	FR4D1311C	IHDT56AU8	Spot check	Y, All test items
	DXX (NFC)	13.56	IHDT56AU7	Full test	FR4D1311D	IHDT56AU8	Spot check	Y, All test items
15E	U-NII	5180~5240	IHDT56AU7	Full test	FR4D1311E	IHDT56AU8	Spot check	Y, All test items
		5260~5320	IHDT56AU7	Full test	FR4D1311E	IHDT56AU8	Spot check	Y, All test items
		5500~5720	IHDT56AU7	Full test	FR4D1311E	IHDT56AU8	Spot check	Y, All test items
		5745~5825	IHDT56AU7	Full test	FR4D1311E	IHDT56AU8	Spot check	Y, All test items
		5260~5320 5500~5720	IHDT56AU7	Full test	FZ4D1311	IHDT56AU8	Spot check	Y, All test items
22, 24, 27, 90,	PCE (GSM)	GSM 850/1900	IHDT56AU7	Full test	FG4D1311A	IHDT56AU8	Spot check	Y, All test items
	PCE (WCDMA)	Band II, V	IHDT56AU7	Full test	FG4D1311A	IHDT56AU8	Spot check	Y, All test items
	PCE (LTE)	B2/5/7/26/38/42/ 7C/38C/42C	IHDT56AU7	Full test	FG4D1311B FG4D1311C FG4D1311E FG4D1311F	IHDT56AU8	Spot check	Y, All test items
	PCE (LTE)	B26 (90S)	IHDT56AU7	Full test	FG4D1311D	IHDT56AU8	Spot check	Y, All test items
	PCE (NR)	n5/n7/n26/n38/n41	IHDT56AU7	Full test	FG4D1311G FG4D1311H	IHDT56AU8	Spot check	Y, All test items except for n5 NSA RSE, n41 RSE
	PCE (NR)	n26 (90S)	IHDT56AU7	Full test	FG4D1311I	IHDT56AU8	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	IHDT56AU7 Parent Worst mode Test Result	IHDT56AU8 Variant Check Test Result	Deviation	Deviation Limit
BT 1Mbps (CH39)	Number of Channels	79	79	0	3
	Hopping Channel Separation	1	1.003	0.003 MHz	3
	Dwell Time of Each Channel	0.306	0.307	0.001 s	3
	20dB Bandwidth	0.87	0.865	0.005 MHz	3
	99% Bandwidth	0.758	0.757	0.01 MHz	3
	Conducted Band Edges	-43.67	-45.85	2.18 dBm	3
	Conducted Spurious Emission	-36.12	-38.30	2.18 dBm	3
BT 1Mbps (CH78)	Radiated Band Edges and Radiated Spurious Emission	-18.78	-18	0.78 dB	3
BT	AC Conducted Emission	-13.67	-11.94	1.73 dB	3
BLE 2Mbps (CH01)	6dB Bandwidth	1.16	1.17	0.01 MHz	3
	99% Bandwidth	2.056	2.050	0.006 MHz	3
	Power Spectral Density	-4.23	-4.94	0.71 dBm/3kHz	3
	Conducted Band Edges	-52.99	-53.56	0.57 dBm/100kHz	3
	Conducted Spurious Emission	-35.36	-37.17	1.81 dBm/100kHz	3
BLE 1Mbps (CH19)	Radiated Band Edges and Spurious Emission	-3.41	-3.13	0.28 dB	3
BLE	AC Conducted Emission	-13.67	-11.94	1.73 dB	3
WIFI 2.4G (802.11ax HE20 CH06)	6dB Bandwidth	18.48	18.70	0.22 MHz	3
	99% Bandwidth	19.874	20.280	0.406 MHz	3
	Power Spectral Density	-6.15	-7.19	1.04 dBm/3kHz	3
	Conducted Band Edges	-14.78	-15.00	0.22 dBm/100kHz	3
	Conducted Spurious Emission	-35.5	-38.06	-2.56 dBm/100kHz	3
WIFI 2.4G (802.11ax HE40 CH06)	Radiated Band Edges and Spurious Emission	-3.11	-3.38	0.27 dB	3
WIFI 2.4G	AC Conducted Emission	-13.67	-11.94	1.73 dB	3
WIFI 5G (802.11ax HE40 CH142)	26dB & 99% Bandwidth	75.60	75.24	0.36 MHz	3
	Power Spectral Density	3.62	3.14	0.48 dBm/MHz	3
WIFI 5G (802.11ax HE80 CH58)	DFS	0.951632	0.88803	0.63602 s	3
WIFI 5G (802.11ax HE20 CH36)	Radiated Band Edges and Spurious Emission	-3.07	-3.23	0.16 dB	3
WIFI 5G	AC Conducted Emission	-17.62	-15.89	1.73 dB	3
NFC	20dB Spectrum Bandwidth	2.58	2.57	0.01 kHz	3
	99% Occupied Bandwidth	2.19	2.19	0 kHz	3
	Field Strength of Fundamental Emissions@3m	52.46	52.54	0.08 dBuV/m	3
	Radiated Spurious Emissions	47.17	49.99	0.82 dBuV/m	3
	AC Power Line Conducted Emissions	-14.93	-13.10	1.83 dB	3
Part 22H (GSM 850)	Peak-to-Average Ratio	0.17	0.14	0.03 dB	3
	Occupied Bandwidth	0.242	0.243	0.001 MHz	3
	Conducted Band Edge	-14.83	-14.60	0.23 dBm	3
	Conducted Spurious Emission	-31.6	-30.52	1.08 dBm	3
	Frequency Stability	0.0023	0.0024	0.0001 ppm	3
Part 27M (LTE Band 7)	26dB Bandwidth	0.32	0.31	0.01 MHz	3
	Radiated Spurious Emission	-49.04	-51.39	2.35 dB	3



Test Item	Mode	IHDT56AU7 Parent Worst mode Test Result	IHDT56AU8 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Conducted Power (dBm)	BT BR/EDR	17.40	17.30	0.10	3
	BLE 1Mbps/2Mbps	12.66	11.40	1.26	3
	11b, 2.4GHz	21.28	20.82	0.46	3
	11g, 2.4GHz	23.72	23.55	0.17	3
	11n HT20, 2.4GHz	23.68	23.53	0.15	3
	11n HT40, 2.4GHz	22.95	22.48	0.47	3
	11ax HE20, 2.4GHz	23.77	23.49	0.28	3
	11ax HE40, 2.4GHz	23.03	22.5	0.53	3
	11a, 5GHz	18.78	18.67	0.11	3
	11n HT20, 5GHz	18.69	18.67	0.02	3
	11n HT40, 5GHz	18.79	18.70	0.09	3
	11ac VHT20, 5GHz	18.75	18.74	0.01	3
	11ac VHT40, 5GHz	18.83	18.70	0.13	3
	11ac VHT80, 5GHz	17.98	17.95	0.03	3
	11ax HE20, 5GHz	18.83	18.78	0.05	3
	11ax HE40, 5GHz	18.95	18.82	0.13	3
	11ax HE80, 5GHz	18.07	18.06	0.01	3
	GSM 850	31.75	31.34	0.41	3
	GSM 1900	28.86	26.57	2.29	3
	WCDMA II	22.68	20.42	2.26	3
	WCDMA V	22.81	22.39	0.42	3
	LTE B2	22.51	22.27	0.24	3
	LTE B5	22.49	22.39	0.10	3
	LTE B7	23.67	22.36	1.31	3
	LTE B7C	22.52	22.39	0.13	3
	LTE B26L	22.47	22.13	0.34	3
	LTE B26H	22.52	22.28	0.24	3
	LTE B38	23.58	23.28	0.30	3
	LTE B38C	22.39	22.53	0.14	3
	LTE B42	22.49	22.23	0.26	3
	LTE B42C	22.38	22.18	0.20	3
	5GNR n5	23.17	22.95	0.22	3
	5GNR n7	23.57	22.84	0.73	3
	5GNR n38	23.10	23.01	0.29	3
	5GNR n41	23.62	23.26	0.36	3
	5GNR n26L	23.66	22.87	0.79	3
	5GNR n26H	23.45	23.19	0.26	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 BT/WIFI:

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Jan. 22, 2025	Apr. 08, 2025	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	Jan. 22, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct.14, 2024	Jan. 22, 2025	Oct. 13, 2025	Conducted (TH01-SZ)
EMI Test Receiver	Keysight	N9038A	MY57290151	3Hz~8.5GHz;Max 30dBm	Jul. 04, 2024	Jan. 20, 2025	Jul. 03, 2025	Radiation (03CH08-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57441079	10Hz~44GHz	Oct. 09, 2024	Jan. 20, 2025	Oct. 08, 2025	Radiation (03CH08-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Jan. 20, 2025	Sep. 07, 2025	Radiation (03CH08-KS)
Bilog Antenna	TESEQ	CBL 6111D	59915	30MHz~1GHz	Aug. 18, 2024	Jan. 20, 2025	Aug.17, 2025	Radiation (03CH08-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00240138	1GHz~18GHz	Jul. 06, 2024	Jan. 20, 2025	Jul. 05, 2025	Radiation (03CH08-KS)
high gain Amplifier	EM	EM01G18GA	060890	1Ghz~18Ghz	Jul. 23, 2024	Jan. 20, 2025	Jul. 22, 2025	Radiation (03CH08-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	Jan. 20, 2025	Oct. 21, 2025	Radiation (03CH08-KS)
Amplifier	SONOMA	310N	380826	9KHz~1GHz	Jul. 03, 2024	Jan. 20, 2025	Jul. 02, 2025	Radiation (03CH08-KS)
Amplifier	Keysight	83017A	MY53270417	500MHz~26.5GHz	Oct. 09, 2024	Jan. 20, 2025	Oct. 08, 2025	Radiation (03CH08-KS)
Amplifier	EM	EM18G40GGA	060737	18~40GHz	Jan. 03, 2025	Jan. 20, 2025	Jan. 02, 2026	Radiation (03CH08-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Jan. 20, 2025	NCR	Radiation (03CH08-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Jan. 20, 2025	NCR	Radiation (03CH08-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Jan. 20, 2025	NCR	Radiation (03CH08-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Jan. 20, 2025	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Aug. 20, 2024	Jan. 20, 2025	Aug. 19, 2025	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Jan. 20, 2025	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 09, 2024	Jan. 20, 2025	Oct. 08, 2025	Conduction (CO01-KS)
Signal Analyzer	R&S	FSV7	101473	10Hz~7GHz	Dec. 25, 2024	Jan. 08, 2025	Dec. 24, 2025	DFS (DFS01-SZ)
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200424	9kHz~6GHz	Apr. 09, 2024	Jan. 08, 2025	Apr. 08, 2025	DFS (DFS01-SZ)
Combiner	TOJOIN	PS-2AM-0460	SZE14011007	0.4~6GHz	Sep. 05, 2024	Jan. 08, 2025	Sep. 04, 2025	DFS (DFS01-SZ)

NCR: No Calibration Required.



For NFC:

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Jan. 23, 2025	Apr. 08, 2025	Conducted (TH01-SZ)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Jan. 23, 2025	Jul. 03, 2025	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Max 30dBm	Oct. 11, 2024	Jan. 03, 2025	Oct. 10, 2025	Radiation (03CH02-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Jan. 03, 2025	Sep. 07, 2025	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	59915	30MHz~1GHz	Aug. 18, 2024	Jan. 03, 2025	Aug. 17, 2025	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Jan. 03, 2025	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jan. 03, 2025	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jan. 03, 2025	NCR	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	413740	9KHz~1GHz	Jan. 02, 2025	Jan. 03, 2025	Jan. 01, 2026	Radiation (03CH02-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Jan. 20, 2025	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Aug. 20, 2024	Jan. 20, 2025	Aug. 19, 2025	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Jan. 20, 2025	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 09, 2024	Jan. 20, 2025	Oct. 08, 2025	Conduction (CO01-KS)

For WWAN Bands:

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Jan. 08, 2025	Apr. 08, 2025	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct.14, 2024	Jan. 08, 2025	Oct. 13, 2025	Conducted (TH01-SZ)
Power Divider	Titan	P02N005180	923402	0.4GHz~26.5GHz	Nov. 08, 2024	Jan. 08, 2025	Nov. 07, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Jan. 08, 2025	Jul. 02, 2025	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 25, 2024	Jan. 18, 2025	Dec. 24, 2025	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Jan. 18, 2025	Dec. 27, 2025	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	Jan. 18, 2025	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Jan. 18, 2025	Jul. 03, 2025	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 09, 2024	Jan. 18, 2025	Apr. 08, 2025	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 09, 2024	Jan. 18, 2025	Apr. 08, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 14, 2024	Jan. 18, 2025	Oct. 13, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Jan. 18, 2025	Jul. 02, 2025	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 14, 2024	Jan. 18, 2025	Oct. 13, 2025	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jan. 18, 2025	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jan. 18, 2025	NCR	Radiation (03CH01-SZ)

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)

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB
Conducted Power Spectral Density	± 1.32 dB
Frequency	± 1.3 Hz

Uncertainty of Conducted Measurement (NFC)

Test Item	Uncertainty
Occupied Channel Bandwidth	± 0.012 MHz
Frequency	± 1.3 Hz

Uncertainty of Conducted Measurement (DFS)

Test Item	Uncertainty
Conducted Generated signal Levels	± 1.23 dB
Conducted Time	0.38%

Uncertainty of Conducted Measurement (WWAN)

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB
Peak to Average Ratio	± 1.34 dB
Frequency Stability	± 1.3 Hz

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

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

03CH08-KS(BT/WIF):

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.26 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.40 dB
---	---------

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
---	---------

**03CH01-SZ(WWAN):****Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)**

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.48 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.53 dB
--	---------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.02 dB
--	---------

-THE END-



Appendix A. Radiated Spurious Emission

For Simultaneous transmission:

Test Engineer :	Zhaohui Liang	Relative Humidity :	50%
		Temperature :	20-22℃

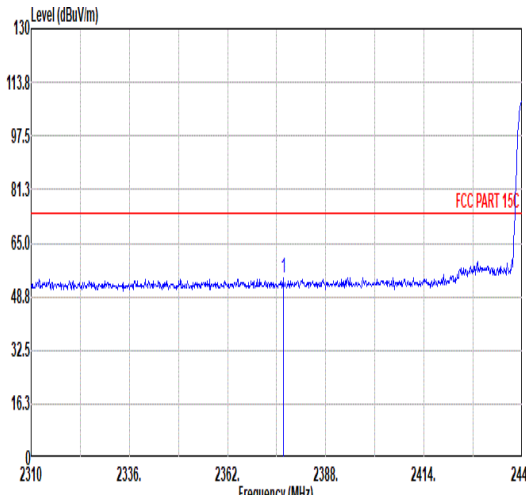
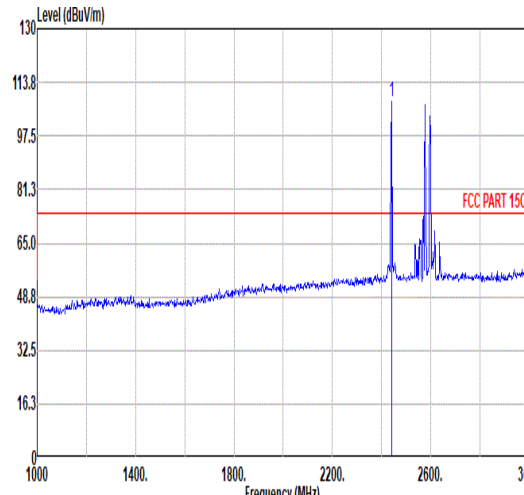
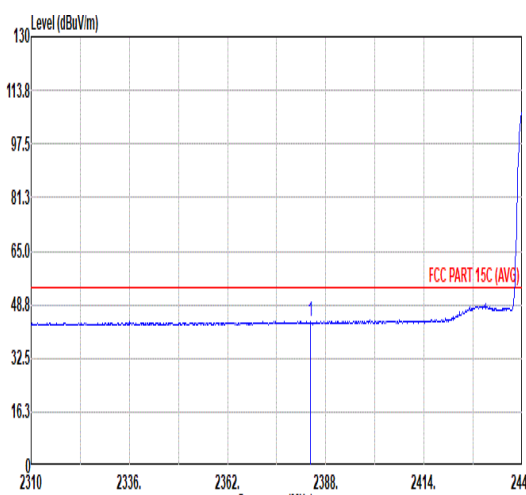
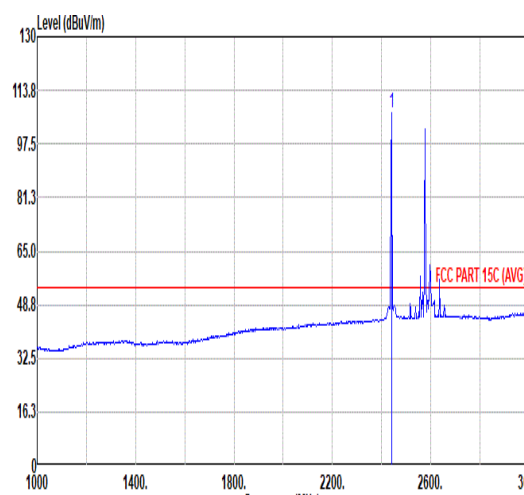
Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	2400-2483.5	3	Bluetooth-LE_GSFK	19	2440	1Mbps	-	-
	U-NII-1	5.15-5.25	4	802.11ax HE20	36	5180	MCS0	Full RU	-
	LTE Band 41C								

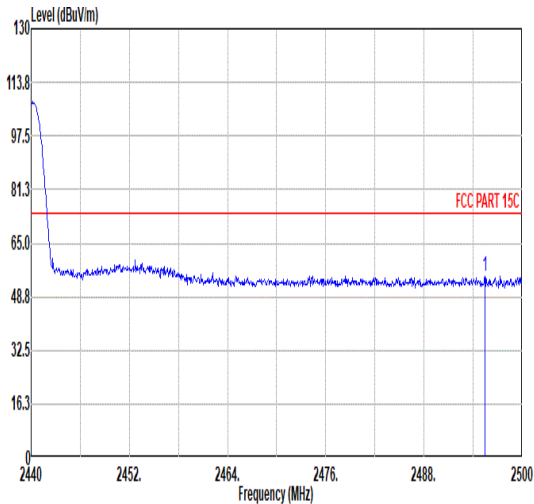
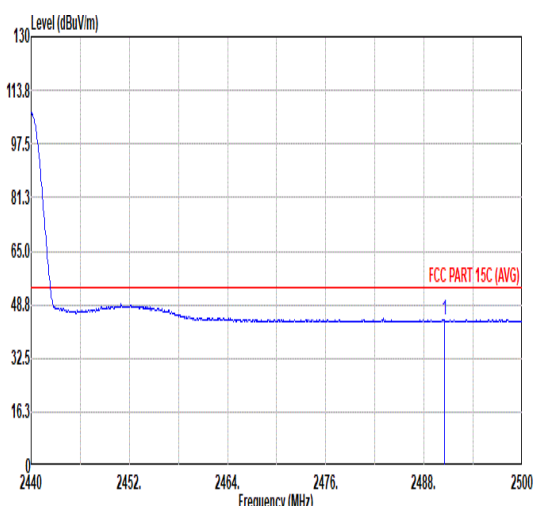
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth-LE_GSFK	19	2490.46	44.29	54.00	-9.71	H	AVERAGE	Pass	Band Edge
	Bluetooth-LE_GSFK	19	4880.00	50.74	54.00	-3.26	H	AVERAGE	Pass	Harmonic
1	802.11ax HE20	36	5149.65	50.39	54.00	-3.61	H	AVERAGE	Pass	Band Edge
	802.11ax HE20	36	10360.00	44.85	68.20	-23.35	H	PEAK	Pass	Harmonic

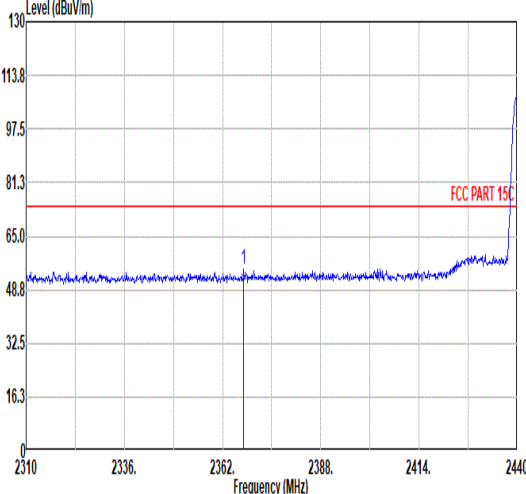
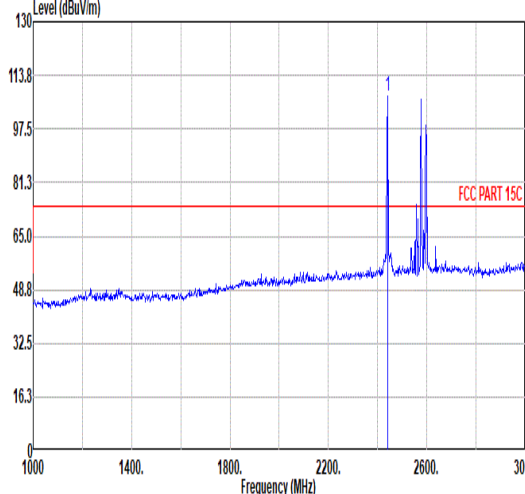
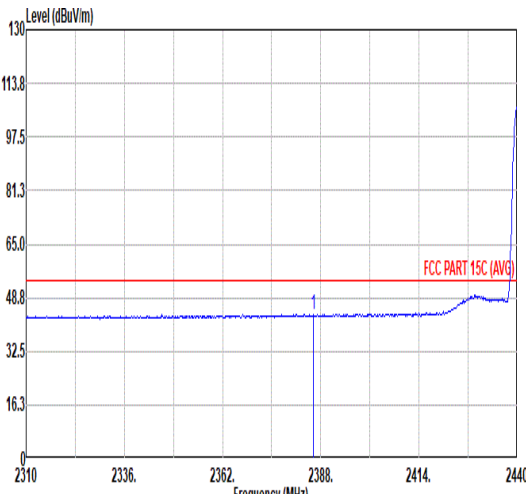
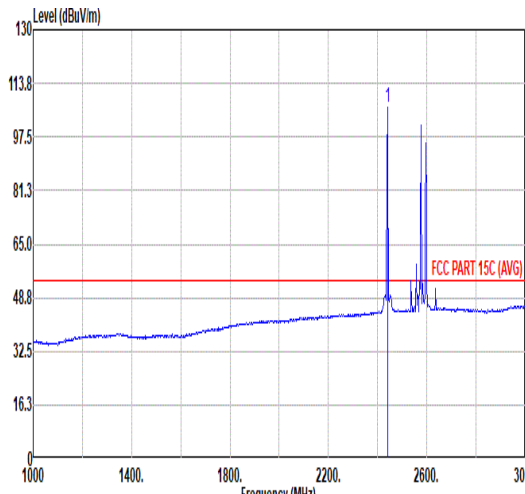


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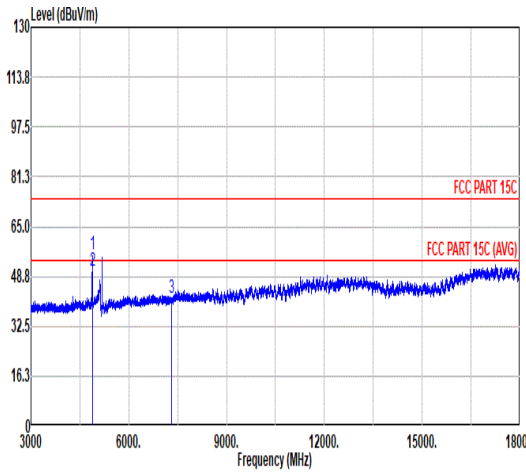
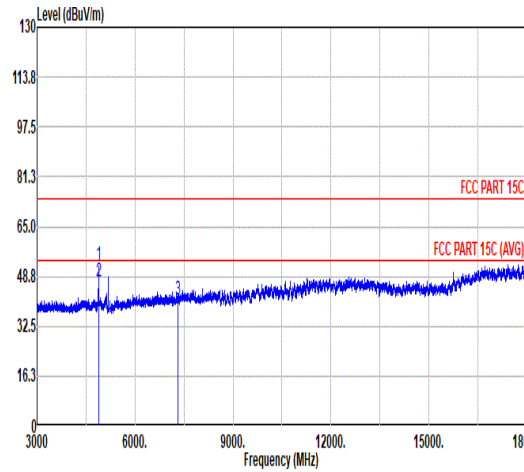


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	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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>2367.59</td><td>54.72</td><td>74.00</td><td>-19.28</td><td>39.39</td><td>32.01</td><td>8.02</td><td>30.70</td><td>6.00</td><td>397</td><td>45</td><td>PEAK</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2367.59	54.72	74.00	-19.28	39.39	32.01	8.02	30.70	6.00	397	45	PEAK	<table><tr><th></th><th>Limit</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>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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>2440.00</td><td>107.48</td><td>-----</td><td>-----</td><td>91.72</td><td>32.28</td><td>8.15</td><td>30.67</td><td>6.00</td><td>397</td><td>45</td><td>PEAK</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2440.00	107.48	-----	-----	91.72	32.28	8.15	30.67	6.00	397	45
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																											
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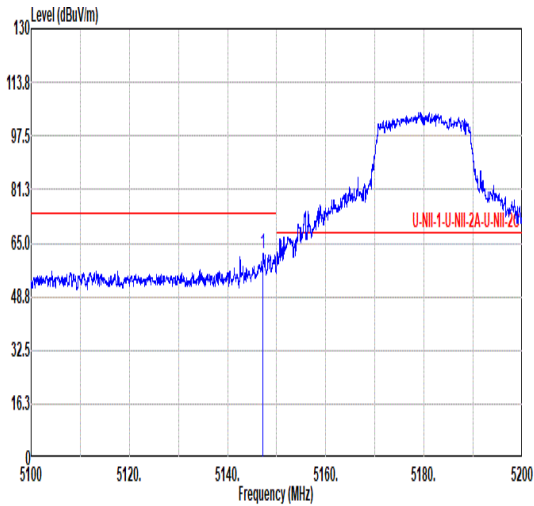
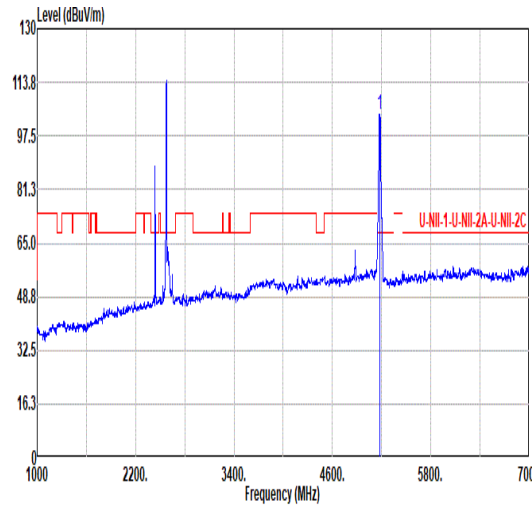
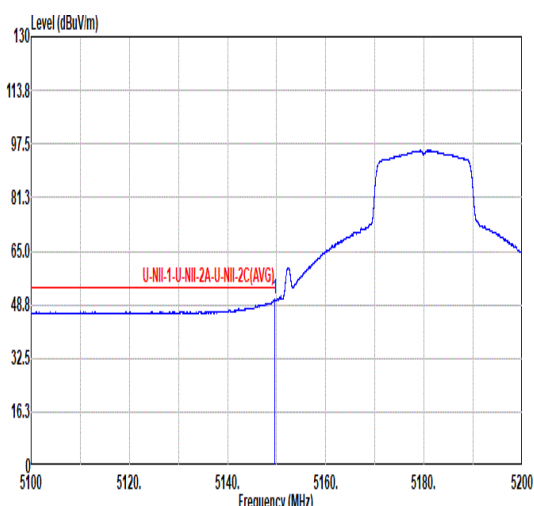
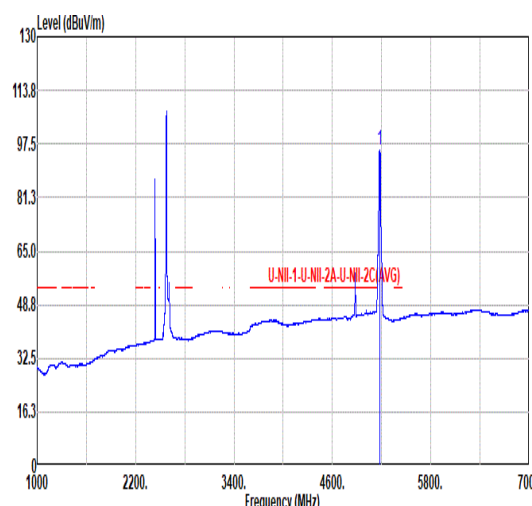


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ANT	3																																													
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Peak	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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>2493.16</td><td>55.44</td><td>74.00</td><td>-18.56</td><td>39.45</td><td>32.39</td><td>8.25</td><td>30.65</td><td>6.00</td><td>397</td><td>45</td><td>PEAK</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2493.16	55.44	74.00	-18.56	39.45	32.39	8.25	30.65	6.00	397	45	PEAK	Blank
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Avg	<table><tr><th></th><th>Limit</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>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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>2496.10</td><td>44.10</td><td>54.00</td><td>-9.90</td><td>28.10</td><td>32.39</td><td>8.26</td><td>30.65</td><td>6.00</td><td>397</td><td>45</td><td>AVERAGE</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2496.10	44.10	54.00	-9.90	28.10	32.39	8.26	30.65	6.00	397	45	AVERAGE	Blank
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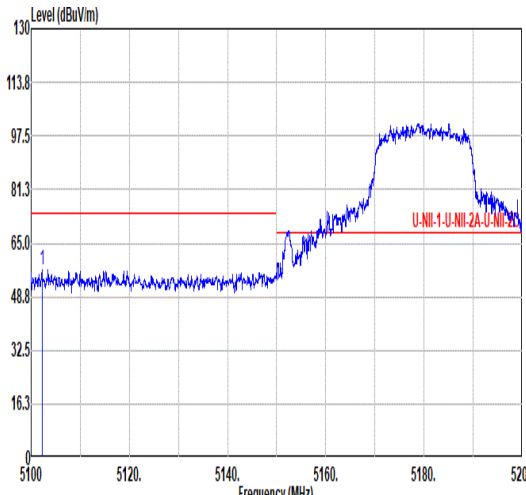
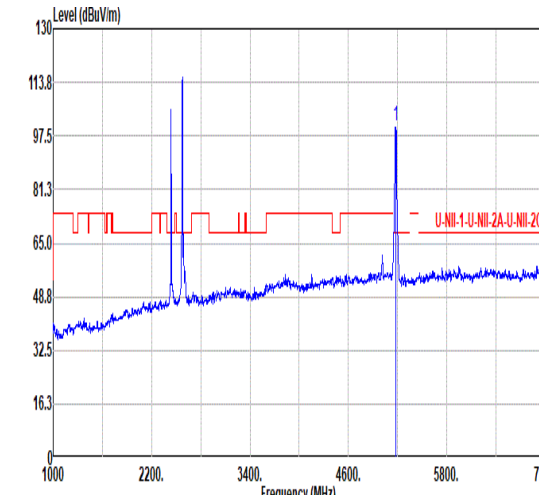
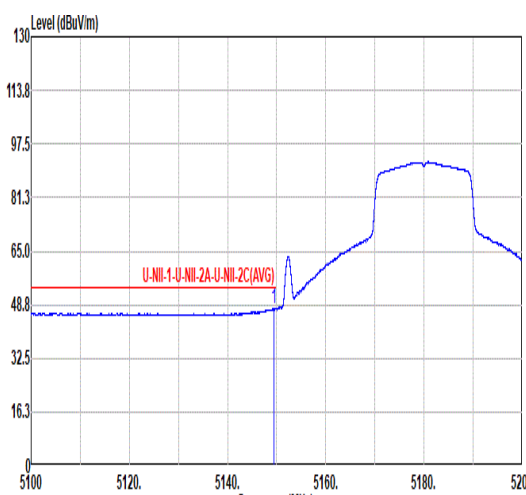
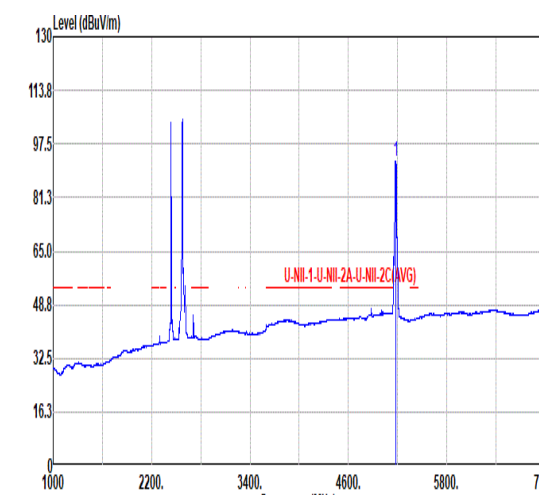


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2	4880.00	50.74	54.00	-3.26	70.16	34.14	11.69	65.25	0.00	100	57	AVERAGE																																																																						
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																										
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2	4880.00	47.14	54.00	-6.86	66.56	34.14	11.69	65.25	0.00	366	211	AVERAGE																																																																						
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																											
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Note: For all plots above, the over limit line signals are Fundamental signal which can be ignored

**For 5G NR n5 NSA:**

Test Engineer :	HuaCong Liang	Relative Humidity :	48~52%
		Temperature :	22-25℃

EN-DC_7A_n5A / LTE 10MHz + NR 20MHz / QPSK (ANT2+0)									
Channel	Frequency (MHz)	ERP/EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n5 Middle	1654.5	-65.70	-13	-52.70	-77.23	-68.95	4.00	9.40	H
	2481.75	-59.92	-13	-46.92	-78.65	-63.49	4.88	10.60	H
	3309	-59.16	-13	-46.16	-79.95	-64.09	5.52	12.60	H
	1654.5	-64.93	-13	-51.93	-77.10	-68.18	4.00	9.40	V
	2481.75	-59.78	-13	-46.78	-78.83	-63.35	4.88	10.60	V
	3309	-58.45	-13	-45.45	-79.94	-63.38	5.52	12.60	V
LTE Band7 Middle	5061.18	-58.04	-25	-33.04	-81.16	-63.60	7.14	12.70	H
	7591.77	-55.00	-25	-30.00	-81.25	-58.30	8.30	11.60	H
	10122.36	-52.53	-25	-27.53	-82.91	-54.05	10.48	12.00	H
	5061.18	-57.38	-25	-32.38	-81.71	-62.94	7.14	12.70	V
	7591.77	-55.73	-25	-30.73	-81.98	-59.03	8.30	11.60	V
	10122.36	-51.58	-25	-26.58	-83.01	-53.10	10.48	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Appendix C. Reference Report



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2503-1, XT2505-3
FCC ID : IHDT56AU7
STANDARD : 47 CFR Part 22, 24, 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Dec. 25, 2024 ~ Dec. 27, 2024

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown 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. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055
People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG4D1311G	Rev. 01	Initial issue of report	Jan. 24, 2025



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power (5G NR n5, n26)	ERP < 7 Watt		
	§24.232(c)	Equivalent Isotropic Radiated Power (5G NR n2)	EIRP < 2Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (5G NR n66)	EIRP < 1Watt		
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Band Edge Measurement (5G NR n5, n26) (5G NR n2) (5G NR n66)	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Spurious Emission (5G NR n5, n26) (5G NR n2) (5G NR n66)	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Radiated Spurious Emission (5G NR n5, n26) (5G NR n2) (5G NR n66)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 26.76 dB at 10122.36 MHz

Conformity Assessment Condition:

- 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.
- 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

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2503-1, XT2505-3
FCC ID	IHDT56AU7
IMEI Code	Conducted : 354424860019490 Radiation : 354424860020035/354424860020043
HW Version	DVT2
SW Version	V2VC35.13
EUT Stage	Identical Prototype

Note: There are two types of EUT, model name: XT2503-1 is sample 1 and model name: XT2505-3 is sample 2, the differences could be referred to the XT2503-1, XT2505-3_Operational Description of Product Equality Declaration which is exhibit separately. According to the difference, for RF report, we choose sample 1 to full test.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n26 : 824 MHz ~ 849 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz
Rx Frequency	5G NR n2 : 1930 MHz ~ 1990 MHz 5G NR n5 : 869 MHz ~ 894 MHz 5G NR n26 : 869 MHz ~ 894 MHz 5G NR n66 : 2110 MHz~ 2200 MHz
Bandwidth	n2: 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 35MHz / 40MHz n5 : 5MHz / 10MHz / 15MHz / 20MHz / 25MHz(Downlink only) n26: 5MHz / 10MHz / 15MHz / 20MHz / 25MHz(Downlink only) / 30MHz(Downlink only) n66: 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 35MHz /

	40MHz / 45MHz
SCS	15kHz
Antenna Gain	<Ant. 0>: n5: -5.1 dBi n26: -5.1 dBi <Ant. 1>: n2: -2.9 dBi n5: -4.5 dBi n26: -4.5 dBi n66: -3.9 dBi <Ant. 2>: n2: -1.1 dBi n66: -2.2 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. The maximum ERP/EIRP is calculated from max output power and max antenna gain, only the maximum ERP/EIRP are shown in the report, 5G NR n2/n66 for Ant. 2 and n5/n26 for Ant. 1.
2. All the supported ENDC combinations are verified conducted power, only the ENDC combination with highest power are shown in the report.
3. 5G NR support SA (n2/n5/n26/n66) mode and NSA(n2/n66) mode. According to the maximum power between SA and NSA mode, SA covers NSA mode for (n2/n66).
4. The EN-DC mode combination could be referred to the product spec.
5. The device supports two PAs(Main PA and other PA) for 5G NR n2/n66, we chose higher power PA to calculate the EIRP and show in the report.

1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP and Emission Designator

5G NR n2		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	1852.5 ~ 1907.5	0.1866	4M46G7D	0.1514	4M48W7D
10	1855.0 ~ 1905.0	0.1901	9M27G7D	0.1549	9M28W7D
15	1857.5 ~ 1902.5	0.1866	14M1G7D	0.1542	14M1W7D
20	1860.0 ~ 1900.0	0.1923	18M9G7D	0.1552	18M9W7D
25	1862.5 ~ 1897.5	0.1879	23M8G7D	0.1503	23M8W7D
30	1865.0 ~ 1895.0	0.1923	28M6G7D	0.1556	28M5W7D
35	1867.5 ~ 1892.5	0.1897	33M6G7D	0.1524	33M6W7D
40	1870.0 ~ 1890.0	0.1928	38M6G7D	0.1556	38M7W7D

5G NR n5		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	826.5 ~ 846.5	0.0491	4M46G7D	0.0416	4M48W7D
10	829.0 ~ 844.0	0.0483	9M27G7D	0.0413	9M28W7D
15	831.5 ~ 841.5	0.0507	14M1G7D	0.0403	14M1W7D
20	834.0 ~ 839.0	0.0509	18M9G7D	0.0422	18M9W7D

5G NR n26		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	826.5 ~ 846.5	0.0514	4M46G7D	0.0430	4M48W7D
10	829.0 ~ 844.0	0.0527	9M27G7D	0.0433	9M28W7D
15	831.5 ~ 841.5	0.0499	14M1G7D	0.0425	14M1W7D
20	834.0 ~ 839.0	0.0532	18M9G7D	0.0431	18M9W7D

5G NR n66		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	1712.5 ~ 1777.5	0.1393	4M46G7D	0.1109	4M48W7D
10	1715.0 ~ 1775.0	0.1406	9M27G7D	0.1132	9M29W7D
15	1717.5 ~ 1772.5	0.1361	14M1G7D	0.1125	14M1W7D
20	1720.0 ~ 1770.0	0.1422	18M9G7D	0.1114	18M9W7D
25	1722.5 ~ 1767.5	0.1377	23M8G7D	0.1099	23M8W7D
30	1725.0 ~ 1765.0	0.1422	28M6G7D	0.1117	28M6W7D
35	1727.5 ~ 1762.5	0.1384	33M5G7D	0.1112	33M6W7D
40	1730.0 ~ 1760.0	0.1393	38M6G7D	0.1125	38M6W7D
45	1732.5 ~ 1757.5	0.1429	43M2G7D	0.1167	43M2W7D

Note:

- 5G NR n26 overlaps the entire frequency range of 5G NR n5. Therefore, the test results provided in this report covers 5G NR n26 as well as 5G NR n5
- All modulations have been tested, only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH01-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24

1.9 Applicable Standards

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

- ♦ 47 CFR Part 22, 24, 27
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

All test items were verified and recorded according to the standards and without any deviation during the test.



1.10 Specification of Accessory

Accessories Information				
AC Adapter 1(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-681N
AC Adapter 1(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-682N
AC Adapter 1(UK)	Brand Name	Motorola(Chenyang)	Model Name	MC-683N
AC Adapter 1(AU)	Brand Name	Motorola(Chenyang)	Model Name	MC-685N
AC Adapter 1(AR)	Brand Name	Motorola(Chenyang)	Model Name	MC-686N
AC Adapter 1(BR)	Brand Name	Motorola(Chenyang)	Model Name	MC-687N
AC Adapter 1(CHILE)	Brand Name	Motorola(Chenyang)	Model Name	MC-689N
AC Adapter 2(US)	Brand Name	Motorola(Acbel)	Model Name	MC-681N
AC Adapter 2(EU)	Brand Name	Motorola(Acbel)	Model Name	MC-682N
AC Adapter 2(UK)	Brand Name	Motorola(Acbel)	Model Name	MC-683N
AC Adapter 2(AU)	Brand Name	Motorola(Acbel)	Model Name	MC-685N
AC Adapter 2(AR)	Brand Name	Motorola(Acbel)	Model Name	MC-686N
AC Adapter 2(BR)	Brand Name	Motorola(Acbel)	Model Name	MC-687N
AC Adapter 2(CHILE)	Brand Name	Motorola(Acbel)	Model Name	MC-689N
Battery 1	Brand Name	Motorola(ATL)	Model Name	RM52
Battery 2	Brand Name	Motorola(Cosmx)	Model Name	RM52
USB Cable 1	Brand Name	Motorola(saibao)	Model Name	SC18D71644
USB Cable 2	Brand Name	Motorola(Luxshare)	Model Name	SC18E08104
USB Cable 3	Brand Name	Motorola(saibao)	Model Name	SC18D86731
USB Cable 4	Brand Name	Motorola(Luxshare)	Model Name	SC18E08103
Wireless Earphones	Brand Name	Motorola	Model Name	XT2443-1



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z for Adapter mode and Earphone mode. The worst cases (X/Y/Z plane-Adapter mode) were recorded in this report.

The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

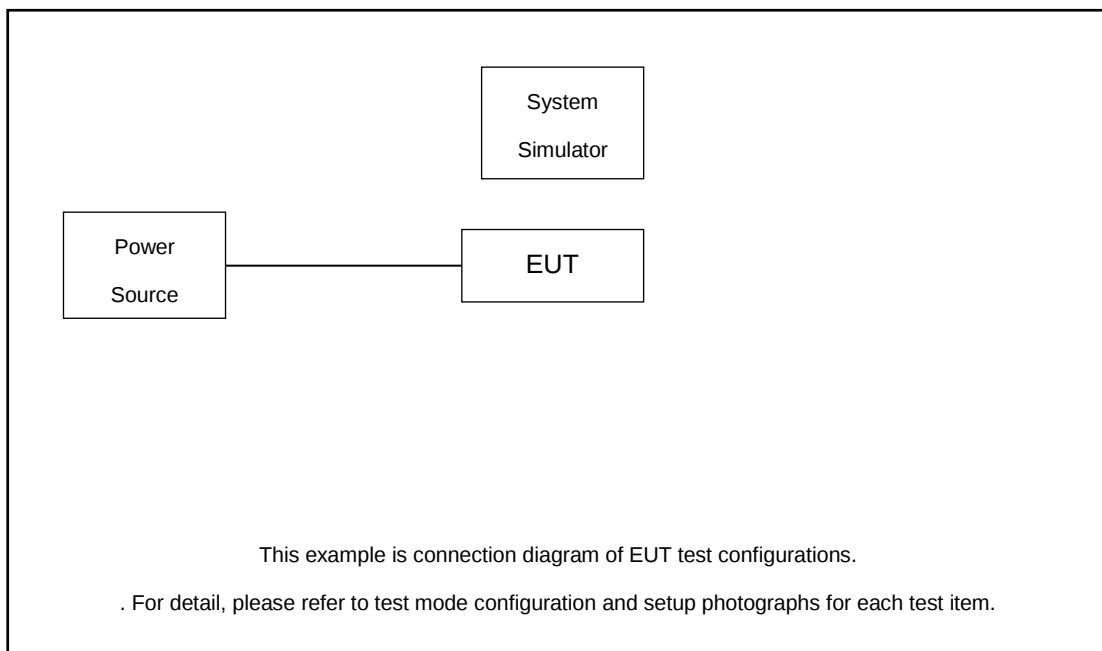
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane

Test Items	5G NR	Bandwidth (MHz)														Modulation					RB #		Test Channel		
		5	10	15	20	25	30	35	40	45	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H	
Max. Output Power	n2	v	v	v	v	v	v	v	v	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	
	n5	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	
	n26	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	
	n66	v	v	v	v	v	v	v	v	v	-	-	-	-	v	v	v	v	v	v	v	v	v	v	
Peak-to-Average Ratio	n2				v					-	-	-	-	-	v	v					v		v		
	n26				v	-	-	-	-	-	-	-	-	-	v	v					v		v		
	n66				v						-	-	-	-	v	v					v		v		
26dB and 99% Bandwidth	n2	v	v	v	v	v	v	v	v	-	-	-	-	-		v	v	v	v		v		v		
	n26	v	v	v	v	-	-	-	-	-	-	-	-	-		v	v	v	v		v		v		
	n66	v	v	v	v	v	v	v	v	v	-	-	-	-		v	v	v	v		v		v		
Conducted Band Edge	n2	v			v				v	-	-	-	-	-	v	v				v	v	v		v	
	n26	v	v		v	-	-	-	-	-	-	-	-	-	v	v				v	v	v		v	
	n66	v				v				v	-	-	-	-	v	v				v	v	v		v	
Conducted Spurious Emission	n2	v			v				v	-	-	-	-	-	v	v				v		v	v	v	
	n26	v	v		v	-	-	-	-	-	-	-	-	-	v	v				v		v	v	v	
	n66	v				v				v	-	-	-	-	v	v				v		v	v	v	
Frequency	n2				v					-	-	-	-	-		v					v		v		



Test Items	5G NR	Bandwidth (MHz)													Modulation					RB #		Test Channel		
		5	10	15	20	25	30	35	40	45	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
Stability	n26				v	-	-	-	-	-	-	-	-	-		v					v		v	
	n66				v						-	-	-	-		v					v		v	
E.R.P / E.I.R.P	n2	v	v	v	v	v	v	v	v	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n5	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n26	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n66	v	v	v	v	v	v	v	v	v	-	-	-	-	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n2	Worst Case																				v		
	n26	Worst Case																				v		
	n66	Worst Case																				v		
Note	1. The mark “v ” means that this configuration is chosen for testing 2. The mark “-“ means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. Frequency Stability : Normal Voltage = 3.91V ; Low Voltage =3.60V. ; High Voltage =4.50V																							

2.2 Connection Diagram of Test System



The EUT has been configuration operated in a manner tended to maximize its emission characteristics in a typical application.

2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 8.0 dB .

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} . \\ &= 8.0 \text{ (dB)} \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

5G NR n2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	374000	376000	378000
	Frequency	1870	1880	1890
35	Channel	373500	376000	378500
	Frequency	1867.5	1880	1892.5
30	Channel	373000	376000	379000
	Frequency	1865	1880	1895
25	Channel	372500	376000	379500
	Frequency	1862.5	1880	1897.5
20	Channel	372000	376000	380000
	Frequency	1860	1880	1900
15	Channel	371500	376000	380500
	Frequency	1857.5	1880	1902.5
10	Channel	371000	376000	381000
	Frequency	1855	1880	1905
5	Channel	370500	376000	381500
	Frequency	1852.5	1880	1907.5



5G NR n5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5

5G NR n26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5

5G NR n66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
45	Channel	346500	349000	351500
	Frequency	1732.5	1745	1757.5
40	Channel	346000	349000	352000
	Frequency	1730	1745	1760
35	Channel	345500	349000	352500
	Frequency	1727.5	1745	1762.5
30	Channel	345000	349000	353000
	Frequency	1725	1745	1765
25	Channel	344500	349000	353500
	Frequency	1722.5	1745	1767.5
20	Channel	344000	349000	354000
	Frequency	1720	1745	1770
15	Channel	343500	349000	354500



	Frequency	1717.5	1745	1772.5
10	Channel	343000	349000	355000
	Frequency	1715	1745	1775
5	Channel	342500	349000	355500
	Frequency	1712.5	1745	1777.5

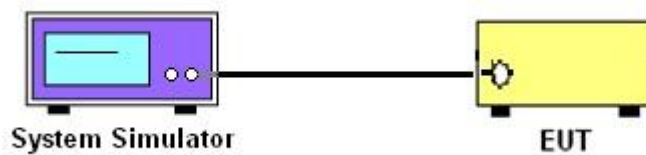
3 Conducted Test Items

3.1 Measuring Instruments

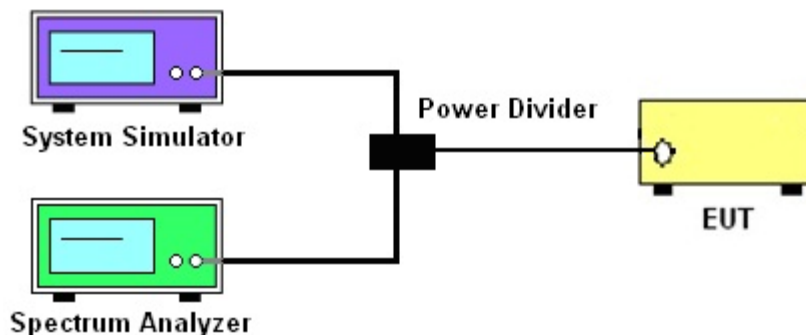
See list of measuring instruments of this test report.

3.2 Test Setup

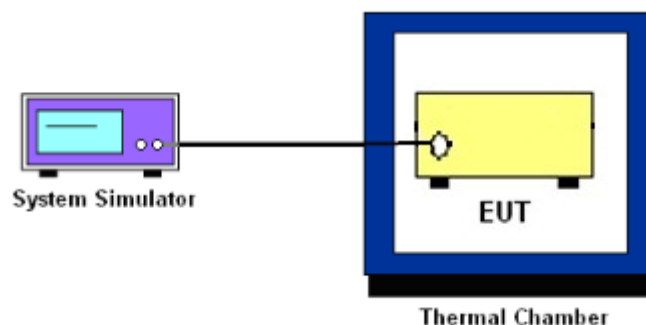
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for 5G NR n5, n26.

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n2.

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n66.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (h)

For operations in the 1710 – 1780 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq$ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used (generally limited to no less than 1% of the OBW) and the measured power was integrated over the full required measurement bandwidth.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

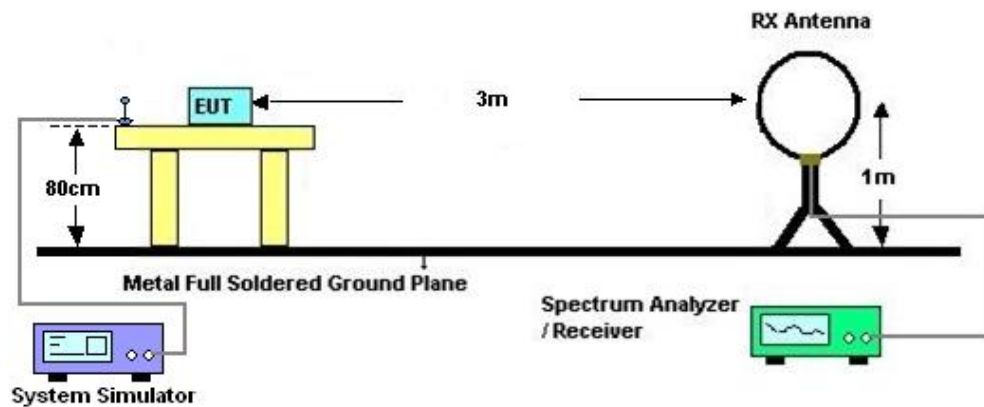
4 Radiated Test Items

4.1 Measuring Instruments

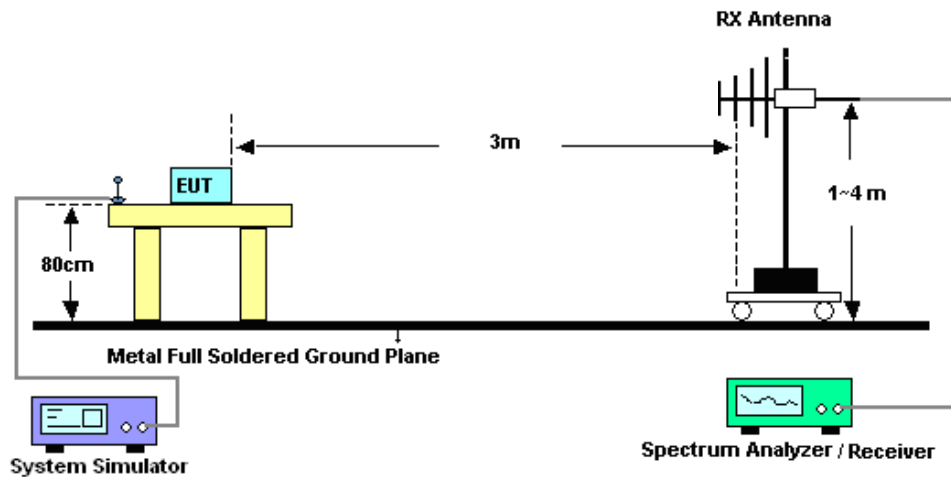
See list of measuring instruments of this test report.

4.2 Test Setup

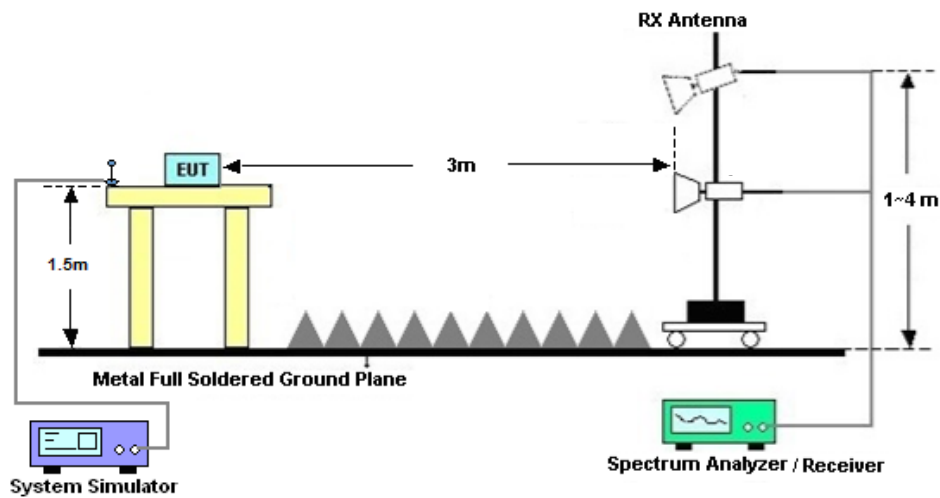
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Dec. 25, 2024~ Dec. 27, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 24, 2024	Dec. 25, 2024~ Dec. 27, 2024	Dec. 23, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Dec. 25, 2024~ Dec. 27, 2024	Jul. 02, 2025	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 26, 2024	Dec. 27, 2024	Dec. 25, 2025	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Dec. 27, 2024	Dec. 28, 2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	Dec. 27, 2024	Oct. 13, 2025	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Dec. 27, 2024	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Dec. 27, 2024	Jul. 03, 2025	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Dec. 27, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 09, 2024	Dec. 27, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 14, 2024	Dec. 27, 2024	Oct. 13, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2024	Dec. 27, 2024	Jul. 02, 2025	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 14, 2024	Dec. 27, 2024	Oct. 13, 2025	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 27, 2024	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 27, 2024	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required

6 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

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Peak to Average Ratio	±1.34 dB
Frequency Stability	±1.3 Hz

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.48 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.53 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.02 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Khan Zhen	Temperature :	22~23℃
		Relative Humidity :	40~42%



Software Version: 23.06.1602

FR1 N2

Transmitter Conducted Output Power And EIRP, (G_T - L_c)=-1.1dB

NR Band	SCS	Bandwidth	Arfcn	Freq(M Hz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
2	15	5	370500	1852.5	DFT-s-OFDM QPSK	12@6	23.75	22.65	0.1841
2	15	5	370500	1852.5	DFT-s-OFDM QPSK	1@1	23.81	22.71	0.1866
2	15	5	370500	1852.5	DFT-s-OFDM QPSK	1@23	23.77	22.67	0.1849
2	15	5	370500	1852.5	DFT-s-OFDM 16 QAM	12@6	22.77	21.67	0.1469
2	15	5	370500	1852.5	DFT-s-OFDM 16 QAM	1@1	22.9	21.8	0.1514
2	15	5	370500	1852.5	DFT-s-OFDM 16 QAM	1@23	22.9	21.8	0.1514
2	15	5	376000	1880	DFT-s-OFDM QPSK	12@6	23.29	22.19	0.1656
2	15	5	376000	1880	DFT-s-OFDM QPSK	1@1	23.34	22.24	0.1675
2	15	5	376000	1880	DFT-s-OFDM QPSK	1@23	23.28	22.18	0.1652
2	15	5	376000	1880	DFT-s-OFDM 16 QAM	12@6	22.27	21.17	0.1309
2	15	5	376000	1880	DFT-s-OFDM 16 QAM	1@1	22.47	21.37	0.1371
2	15	5	376000	1880	DFT-s-OFDM 16 QAM	1@23	22.43	21.33	0.1358
2	15	5	381500	1907.5	DFT-s-OFDM QPSK	12@6	23.01	21.91	0.1552
2	15	5	381500	1907.5	DFT-s-OFDM QPSK	1@1	23.14	22.04	0.1600
2	15	5	381500	1907.5	DFT-s-OFDM QPSK	1@23	22.92	21.82	0.1521
2	15	5	381500	1907.5	DFT-s-OFDM 16 QAM	12@6	22.02	20.92	0.1236
2	15	5	381500	1907.5	DFT-s-OFDM 16 QAM	1@1	22.14	21.04	0.1271
2	15	5	381500	1907.5	DFT-s-OFDM 16 QAM	1@23	22.08	20.98	0.1253
2	15	10	371000	1855	DFT-s-OFDM QPSK	25@12	23.76	22.66	0.1845
2	15	10	371000	1855	DFT-s-OFDM QPSK	1@1	23.89	22.79	0.1901
2	15	10	371000	1855	DFT-s-OFDM QPSK	1@50	23.86	22.76	0.1888
2	15	10	371000	1855	DFT-s-OFDM 16 QAM	25@12	22.82	21.72	0.1486
2	15	10	371000	1855	DFT-s-OFDM 16 QAM	1@1	23	21.9	0.1549
2	15	10	371000	1855	DFT-s-OFDM 16 QAM	1@50	23	21.9	0.1549
2	15	10	376000	1880	DFT-s-OFDM QPSK	25@12	23.24	22.14	0.1637
2	15	10	376000	1880	DFT-s-OFDM QPSK	1@1	23.51	22.41	0.1742



2	15	10	376000	1880	DFT-s-OFDM QPSK	1@50	23.34	22.24	0.1675
2	15	10	376000	1880	DFT-s-OFDM 16 QAM	25@12	22.31	21.21	0.1321
2	15	10	376000	1880	DFT-s-OFDM 16 QAM	1@1	22.57	21.47	0.1403
2	15	10	376000	1880	DFT-s-OFDM 16 QAM	1@50	22.49	21.39	0.1377
2	15	10	381000	1905	DFT-s-OFDM QPSK	25@12	23.03	21.93	0.1560
2	15	10	381000	1905	DFT-s-OFDM QPSK	1@1	23.32	22.22	0.1667
2	15	10	381000	1905	DFT-s-OFDM QPSK	1@50	22.99	21.89	0.1545
2	15	10	381000	1905	DFT-s-OFDM 16 QAM	25@12	22.1	21	0.1259
2	15	10	381000	1905	DFT-s-OFDM 16 QAM	1@1	22.32	21.22	0.1324
2	15	10	381000	1905	DFT-s-OFDM 16 QAM	1@50	22.2	21.1	0.1288
2	15	15	371500	1857.5	DFT-s-OFDM QPSK	36@18	23.81	22.71	0.1866
2	15	15	371500	1857.5	DFT-s-OFDM QPSK	1@1	23.81	22.71	0.1866
2	15	15	371500	1857.5	DFT-s-OFDM QPSK	1@77	23.74	22.64	0.1837
2	15	15	371500	1857.5	DFT-s-OFDM 16 QAM	36@18	22.8	21.7	0.1479
2	15	15	371500	1857.5	DFT-s-OFDM 16 QAM	1@1	22.98	21.88	0.1542
2	15	15	371500	1857.5	DFT-s-OFDM 16 QAM	1@77	22.91	21.81	0.1517
2	15	15	376000	1880	DFT-s-OFDM QPSK	36@18	23.3	22.2	0.1660
2	15	15	376000	1880	DFT-s-OFDM QPSK	1@1	23.45	22.35	0.1718
2	15	15	376000	1880	DFT-s-OFDM QPSK	1@77	23.33	22.23	0.1671
2	15	15	376000	1880	DFT-s-OFDM 16 QAM	36@18	22.32	21.22	0.1324
2	15	15	376000	1880	DFT-s-OFDM 16 QAM	1@1	22.62	21.52	0.1419
2	15	15	376000	1880	DFT-s-OFDM 16 QAM	1@77	22.43	21.33	0.1358
2	15	15	380500	1902.5	DFT-s-OFDM QPSK	36@18	23.15	22.05	0.1603
2	15	15	380500	1902.5	DFT-s-OFDM QPSK	1@1	23.35	22.25	0.1679
2	15	15	380500	1902.5	DFT-s-OFDM QPSK	1@77	23.01	21.91	0.1552
2	15	15	380500	1902.5	DFT-s-OFDM 16 QAM	36@18	22.15	21.05	0.1274
2	15	15	380500	1902.5	DFT-s-OFDM 16 QAM	1@1	22.35	21.25	0.1334
2	15	15	380500	1902.5	DFT-s-OFDM 16 QAM	1@77	22.11	21.01	0.1262
2	15	20	372000	1860	DFT-s-OFDM QPSK	50@25	23.82	22.72	0.1871
2	15	20	372000	1860	DFT-s-OFDM QPSK	1@1	23.94	22.84	0.1923
2	15	20	372000	1860	DFT-s-OFDM QPSK	1@104	23.66	22.56	0.1803
2	15	20	372000	1860	DFT-s-OFDM 16	50@25	22.78	21.68	0.1472



					QAM				
2	15	20	372000	1860	DFT-s-OFDM 16 QAM	1@1	23.01	21.91	0.1552
2	15	20	372000	1860	DFT-s-OFDM 16 QAM	1@104	22.81	21.71	0.1483
2	15	20	376000	1880	DFT-s-OFDM QPSK	50@25	23.34	22.24	0.1675
2	15	20	376000	1880	DFT-s-OFDM QPSK	1@1	23.59	22.49	0.1774
2	15	20	376000	1880	DFT-s-OFDM QPSK	1@104	23.37	22.27	0.1687
2	15	20	376000	1880	DFT-s-OFDM 16 QAM	50@25	22.4	21.3	0.1349
2	15	20	376000	1880	DFT-s-OFDM 16 QAM	1@1	22.67	21.57	0.1435
2	15	20	376000	1880	DFT-s-OFDM 16 QAM	1@104	22.47	21.37	0.1371
2	15	20	380000	1900	DFT-s-OFDM QPSK	50@25	23.18	22.08	0.1614
2	15	20	380000	1900	DFT-s-OFDM QPSK	1@1	23.39	22.29	0.1694
2	15	20	380000	1900	DFT-s-OFDM QPSK	1@104	23.03	21.93	0.1560
2	15	20	380000	1900	DFT-s-OFDM 16 QAM	50@25	22.22	21.12	0.1294
2	15	20	380000	1900	DFT-s-OFDM 16 QAM	1@1	22.52	21.42	0.1387
2	15	20	380000	1900	DFT-s-OFDM 16 QAM	1@104	22.21	21.11	0.1291
2	15	25	372500	1862.5	DFT-s-OFDM QPSK	64@32	23.73	22.63	0.1832
2	15	25	372500	1862.5	DFT-s-OFDM QPSK	1@1	23.84	22.74	0.1879
2	15	25	372500	1862.5	DFT-s-OFDM QPSK	1@131	23.42	22.32	0.1706
2	15	25	372500	1862.5	DFT-s-OFDM 16 QAM	64@32	22.71	21.61	0.1449
2	15	25	372500	1862.5	DFT-s-OFDM 16 QAM	1@1	22.87	21.77	0.1503
2	15	25	372500	1862.5	DFT-s-OFDM 16 QAM	1@131	22.55	21.45	0.1396
2	15	25	376000	1880	DFT-s-OFDM QPSK	64@32	23.32	22.22	0.1667
2	15	25	376000	1880	DFT-s-OFDM QPSK	1@1	23.58	22.48	0.1770
2	15	25	376000	1880	DFT-s-OFDM QPSK	1@131	23.31	22.21	0.1663
2	15	25	376000	1880	DFT-s-OFDM 16 QAM	64@32	22.23	21.13	0.1297
2	15	25	376000	1880	DFT-s-OFDM 16 QAM	1@1	22.6	21.5	0.1413
2	15	25	376000	1880	DFT-s-OFDM 16 QAM	1@131	22.4	21.3	0.1349
2	15	25	379500	1897.5	DFT-s-OFDM QPSK	64@32	23.28	22.18	0.1652
2	15	25	379500	1897.5	DFT-s-OFDM QPSK	1@1	23.25	22.15	0.1641
2	15	25	379500	1897.5	DFT-s-OFDM QPSK	1@131	22.94	21.84	0.1528
2	15	25	379500	1897.5	DFT-s-OFDM 16 QAM	64@32	22.26	21.16	0.1306
2	15	25	379500	1897.5	DFT-s-OFDM 16 QAM	1@1	22.42	21.32	0.1355



2	15	25	379500	1897.5	DFT-s-OFDM 16 QAM	1@131	22.14	21.04	0.1271
2	15	30	373000	1865	DFT-s-OFDM QPSK	80@40	23.69	22.59	0.1816
2	15	30	373000	1865	DFT-s-OFDM QPSK	1@1	23.94	22.84	0.1923
2	15	30	373000	1865	DFT-s-OFDM QPSK	1@158	23.44	22.34	0.1714
2	15	30	373000	1865	DFT-s-OFDM 16 QAM	80@40	22.71	21.61	0.1449
2	15	30	373000	1865	DFT-s-OFDM 16 QAM	1@1	23.02	21.92	0.1556
2	15	30	373000	1865	DFT-s-OFDM 16 QAM	1@158	22.64	21.54	0.1426
2	15	30	376000	1880	DFT-s-OFDM QPSK	80@40	23.36	22.26	0.1683
2	15	30	376000	1880	DFT-s-OFDM QPSK	1@1	23.67	22.57	0.1807
2	15	30	376000	1880	DFT-s-OFDM QPSK	1@158	23.38	22.28	0.1690
2	15	30	376000	1880	DFT-s-OFDM 16 QAM	80@40	22.4	21.3	0.1349
2	15	30	376000	1880	DFT-s-OFDM 16 QAM	1@1	22.79	21.69	0.1476
2	15	30	376000	1880	DFT-s-OFDM 16 QAM	1@158	22.52	21.42	0.1387
2	15	30	379000	1895	DFT-s-OFDM QPSK	80@40	23.3	22.2	0.1660
2	15	30	379000	1895	DFT-s-OFDM QPSK	1@1	23.48	22.38	0.1730
2	15	30	379000	1895	DFT-s-OFDM QPSK	1@158	23.09	21.99	0.1581
2	15	30	379000	1895	DFT-s-OFDM 16 QAM	80@40	22.34	21.24	0.1330
2	15	30	379000	1895	DFT-s-OFDM 16 QAM	1@1	22.52	21.42	0.1387
2	15	30	379000	1895	DFT-s-OFDM 16 QAM	1@158	22.26	21.16	0.1306
2	15	35	373500	1867.5	DFT-s-OFDM QPSK	90@45	23.62	22.52	0.1786
2	15	35	373500	1867.5	DFT-s-OFDM QPSK	1@1	23.88	22.78	0.1897
2	15	35	373500	1867.5	DFT-s-OFDM QPSK	1@186	23.39	22.29	0.1694
2	15	35	373500	1867.5	DFT-s-OFDM 16 QAM	90@45	22.63	21.53	0.1422
2	15	35	373500	1867.5	DFT-s-OFDM 16 QAM	1@1	22.93	21.83	0.1524
2	15	35	373500	1867.5	DFT-s-OFDM 16 QAM	1@186	22.55	21.45	0.1396
2	15	35	376000	1880	DFT-s-OFDM QPSK	90@45	23.34	22.24	0.1675
2	15	35	376000	1880	DFT-s-OFDM QPSK	1@1	23.62	22.52	0.1786
2	15	35	376000	1880	DFT-s-OFDM QPSK	1@186	23.28	22.18	0.1652
2	15	35	376000	1880	DFT-s-OFDM 16 QAM	90@45	22.41	21.31	0.1352
2	15	35	376000	1880	DFT-s-OFDM 16 QAM	1@1	22.8	21.7	0.1479
2	15	35	376000	1880	DFT-s-OFDM 16 QAM	1@186	22.46	21.36	0.1368
2	15	35	378500	1892.5	DFT-s-OFDM	90@45	23.3	22.2	0.1660



					QPSK				
2	15	35	378500	1892.5	DFT-s-OFDM QPSK	1@1	23.31	22.21	0.1663
2	15	35	378500	1892.5	DFT-s-OFDM QPSK	1@186	23.02	21.92	0.1556
2	15	35	378500	1892.5	DFT-s-OFDM 16 QAM	90@45	22.39	21.29	0.1346
2	15	35	378500	1892.5	DFT-s-OFDM 16 QAM	1@1	22.52	21.42	0.1387
2	15	35	378500	1892.5	DFT-s-OFDM 16 QAM	1@186	22.21	21.11	0.1291
2	15	40	374000	1870	DFT-s-OFDM PI/2 BPSK	108@54	23.63	22.53	0.1791
2	15	40	374000	1870	DFT-s-OFDM PI/2 BPSK	1@1	23.8	22.7	0.1862
2	15	40	374000	1870	DFT-s-OFDM PI/2 BPSK	1@214	23.42	22.32	0.1706
2	15	40	374000	1870	DFT-s-OFDM QPSK	108@54	23.64	22.54	0.1795
2	15	40	374000	1870	DFT-s-OFDM QPSK	1@1	23.95	22.85	0.1928
2	15	40	374000	1870	DFT-s-OFDM QPSK	1@214	23.46	22.36	0.1722
2	15	40	374000	1870	DFT-s-OFDM 16 QAM	108@54	22.68	21.58	0.1439
2	15	40	374000	1870	DFT-s-OFDM 16 QAM	1@1	23.02	21.92	0.1556
2	15	40	374000	1870	DFT-s-OFDM 16 QAM	1@214	22.6	21.5	0.1413
2	15	40	374000	1870	DFT-s-OFDM 64 QAM	108@54	21.14	20.04	0.1009
2	15	40	374000	1870	DFT-s-OFDM 64 QAM	1@1	21.17	20.07	0.1016
2	15	40	374000	1870	DFT-s-OFDM 64 QAM	1@214	20.78	19.68	0.0929
2	15	40	374000	1870	DFT-s-OFDM 256 QAM	108@54	19.18	18.08	0.0643
2	15	40	374000	1870	DFT-s-OFDM 256 QAM	1@1	19.35	18.25	0.0668
2	15	40	374000	1870	DFT-s-OFDM 256 QAM	1@214	18.97	17.87	0.0612
2	15	40	374000	1870	CP-OFDM QPSK	108@54	22.13	21.03	0.1268
2	15	40	374000	1870	CP-OFDM QPSK	1@1	22.45	21.35	0.1365
2	15	40	374000	1870	CP-OFDM QPSK	1@214	21.96	20.86	0.1219
2	15	40	376000	1880	DFT-s-OFDM PI/2 BPSK	108@54	23.4	22.3	0.1698
2	15	40	376000	1880	DFT-s-OFDM PI/2 BPSK	1@1	23.74	22.64	0.1837
2	15	40	376000	1880	DFT-s-OFDM PI/2 BPSK	1@214	23.26	22.16	0.1644
2	15	40	376000	1880	DFT-s-OFDM QPSK	108@54	23.45	22.35	0.1718
2	15	40	376000	1880	DFT-s-OFDM QPSK	1@1	23.78	22.68	0.1854
2	15	40	376000	1880	DFT-s-OFDM QPSK	1@214	23.3	22.2	0.1660
2	15	40	376000	1880	DFT-s-OFDM 16 QAM	108@54	22.52	21.42	0.1387
2	15	40	376000	1880	DFT-s-OFDM 16 QAM	1@1	22.92	21.82	0.1521
2	15	40	376000	1880	DFT-s-OFDM 16 QAM	1@214	22.49	21.39	0.1377



					QAM				
2	15	40	376000	1880	DFT-s-OFDM 64 QAM	108@54	21	19.9	0.0977
2	15	40	376000	1880	DFT-s-OFDM 64 QAM	1@1	21.04	19.94	0.0986
2	15	40	376000	1880	DFT-s-OFDM 64 QAM	1@214	20.58	19.48	0.0887
2	15	40	376000	1880	DFT-s-OFDM 256 QAM	108@54	19	17.9	0.0617
2	15	40	376000	1880	DFT-s-OFDM 256 QAM	1@1	19.28	18.18	0.0658
2	15	40	376000	1880	DFT-s-OFDM 256 QAM	1@214	18.79	17.69	0.0587
2	15	40	376000	1880	CP-OFDM QPSK	108@54	21.96	20.86	0.1219
2	15	40	376000	1880	CP-OFDM QPSK	1@1	22.32	21.22	0.1324
2	15	40	376000	1880	CP-OFDM QPSK	1@214	21.76	20.66	0.1164
2	15	40	378000	1890	DFT-s-OFDM PI/2 BPSK	108@54	23.41	22.31	0.1702
2	15	40	378000	1890	DFT-s-OFDM PI/2 BPSK	1@1	23.52	22.42	0.1746
2	15	40	378000	1890	DFT-s-OFDM PI/2 BPSK	1@214	23.1	22	0.1585
2	15	40	378000	1890	DFT-s-OFDM QPSK	108@54	23.43	22.33	0.1710
2	15	40	378000	1890	DFT-s-OFDM QPSK	1@1	23.6	22.5	0.1778
2	15	40	378000	1890	DFT-s-OFDM QPSK	1@214	23.13	22.03	0.1596
2	15	40	378000	1890	DFT-s-OFDM 16 QAM	108@54	22.53	21.43	0.1390
2	15	40	378000	1890	DFT-s-OFDM 16 QAM	1@1	22.68	21.58	0.1439
2	15	40	378000	1890	DFT-s-OFDM 16 QAM	1@214	22.24	21.14	0.1300
2	15	40	378000	1890	DFT-s-OFDM 64 QAM	108@54	21.05	19.95	0.0989
2	15	40	378000	1890	DFT-s-OFDM 64 QAM	1@1	20.85	19.75	0.0944
2	15	40	378000	1890	DFT-s-OFDM 64 QAM	1@214	20.44	19.34	0.0859
2	15	40	378000	1890	DFT-s-OFDM 256 QAM	108@54	19.03	17.93	0.0621
2	15	40	378000	1890	DFT-s-OFDM 256 QAM	1@1	19.04	17.94	0.0622
2	15	40	378000	1890	DFT-s-OFDM 256 QAM	1@214	18.59	17.49	0.0561
2	15	40	378000	1890	CP-OFDM QPSK	108@54	21.97	20.87	0.1222
2	15	40	378000	1890	CP-OFDM QPSK	1@1	22.11	21.01	0.1262
2	15	40	378000	1890	CP-OFDM QPSK	1@214	21.67	20.57	0.1140



Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	13.1	PASS	NV
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	11.5	PASS	LV
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	16.7	PASS	HV
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	11.6	PASS	-30°C
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	13.9	PASS	-20°C
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	17	PASS	-10°C
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	19.3	PASS	0°C
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	14.6	PASS	10°C
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	13.1	PASS	20°C
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	11.5	PASS	30°C
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	17.7	PASS	40°C
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	13.3	PASS	50°C

 $|\text{MAX}(\Delta f)| = 19.3 \text{ Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	1850.4894817	$\geq 1850 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	1909.3516193	$\leq 1910 \text{ MHz}$	

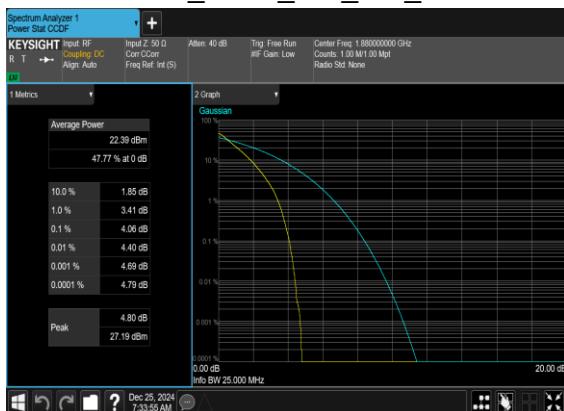


Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
2	15	20	376000	1880.0	DFT-s-OFDM PI/2 BPSK	100@0	4.06	13	PASS
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	5.18	13	PASS



N2(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



N2(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



**Occupied Bandwidth**

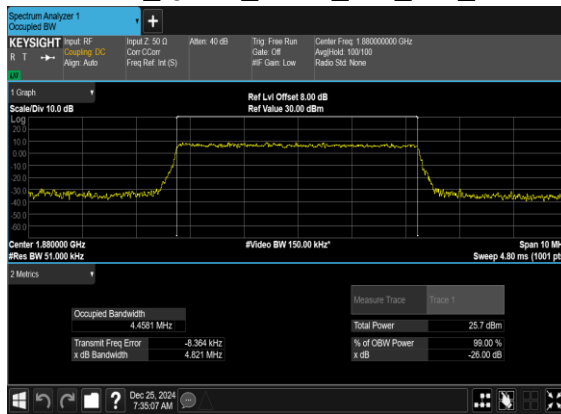
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
2	15	5	376000	1880.0	CP-OFDM QPSK	25@0	4.4581	4.821
2	15	5	376000	1880.0	CP-OFDM 16 QAM	25@0	4.4701	4.816
2	15	5	376000	1880.0	CP-OFDM 64 QAM	25@0	4.4782	4.806
2	15	5	376000	1880.0	CP-OFDM 256 QAM	25@0	4.4691	4.786
2	15	10	376000	1880.0	CP-OFDM QPSK	52@0	9.253	9.687
2	15	10	376000	1880.0	CP-OFDM 16 QAM	52@0	9.2404	9.737
2	15	10	376000	1880.0	CP-OFDM 64 QAM	52@0	9.2804	9.717
2	15	10	376000	1880.0	CP-OFDM 256 QAM	52@0	9.2637	9.687
2	15	15	376000	1880.0	CP-OFDM QPSK	79@0	14.075	14.62
2	15	15	376000	1880.0	CP-OFDM 16 QAM	79@0	14.084	14.71
2	15	15	376000	1880.0	CP-OFDM 64 QAM	79@0	14.1	14.7
2	15	15	376000	1880.0	CP-OFDM 256 QAM	79@0	14.07	14.66
2	15	20	376000	1880.0	CP-OFDM QPSK	106@0	18.9	19.6
2	15	20	376000	1880.0	CP-OFDM 16 QAM	106@0	18.89	19.63
2	15	20	376000	1880.0	CP-OFDM 64 QAM	106@0	18.888	19.66
2	15	20	376000	1880.0	CP-OFDM 256 QAM	106@0	18.854	19.68
2	15	25	376000	1880.0	CP-OFDM QPSK	133@0	23.772	24.64
2	15	25	376000	1880.0	CP-OFDM 16 QAM	133@0	23.724	24.63
2	15	25	376000	1880.0	CP-OFDM 64 QAM	133@0	23.745	24.64
2	15	25	376000	1880.0	CP-OFDM 256 QAM	133@0	23.681	24.62
2	15	30	376000	1880.0	CP-OFDM QPSK	160@0	28.615	29.73
2	15	30	376000	1880.0	CP-OFDM 16 QAM	160@0	28.543	29.7



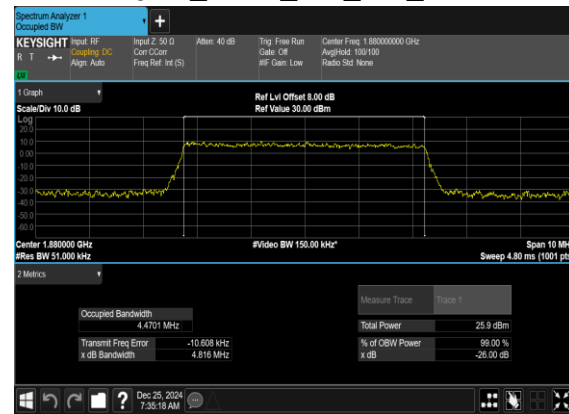
2	15	30	376000	1880.0	CP-OFDM 64 QAM	160@0	28.538	29.76
2	15	30	376000	1880.0	CP-OFDM 256 QAM	160@0	28.531	29.7
2	15	35	376000	1880.0	CP-OFDM QPSK	188@0	33.557	34.79
2	15	35	376000	1880.0	CP-OFDM 16 QAM	188@0	33.623	34.76
2	15	35	376000	1880.0	CP-OFDM 64 QAM	188@0	33.572	34.64
2	15	35	376000	1880.0	CP-OFDM 256 QAM	188@0	33.527	34.68
2	15	40	376000	1880.0	CP-OFDM QPSK	216@0	38.545	39.87
2	15	40	376000	1880.0	CP-OFDM 16 QAM	216@0	38.544	39.89
2	15	40	376000	1880.0	CP-OFDM 64 QAM	216@0	38.584	39.91
2	15	40	376000	1880.0	CP-OFDM 256 QAM	216@0	38.576	39.98



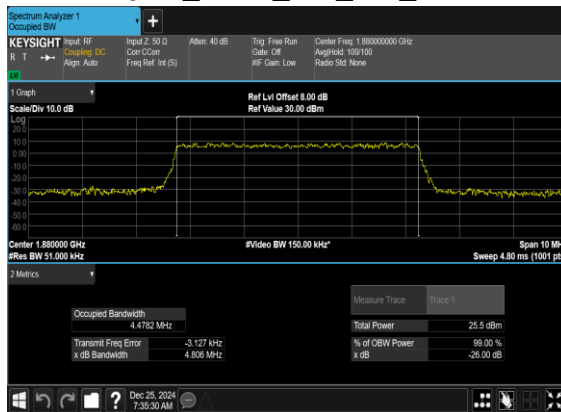
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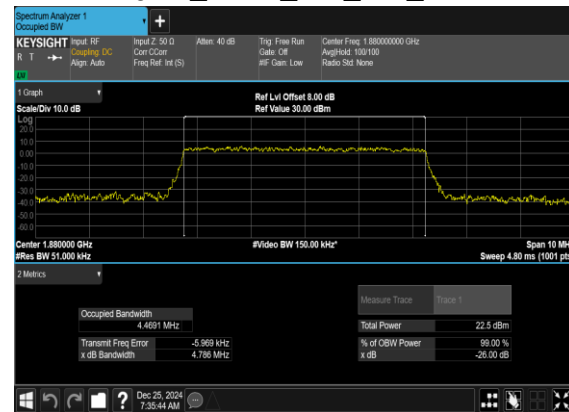
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QAM_Outer_Full_Mid_CH



N2(5M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

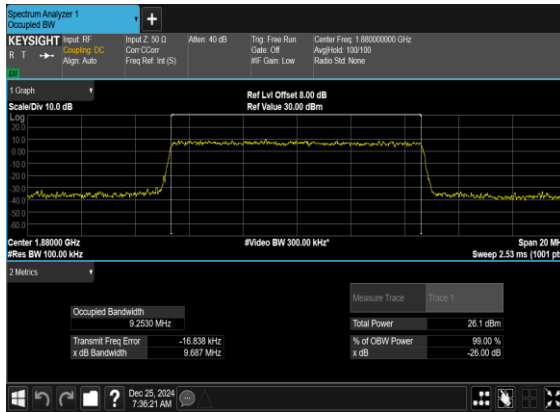


N2(5M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

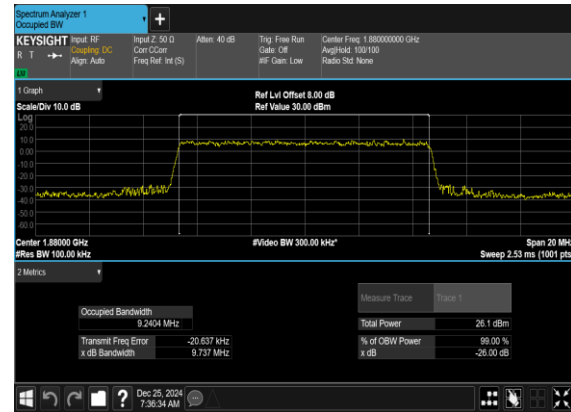




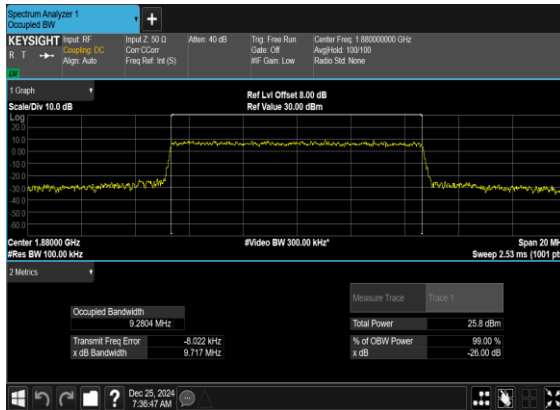
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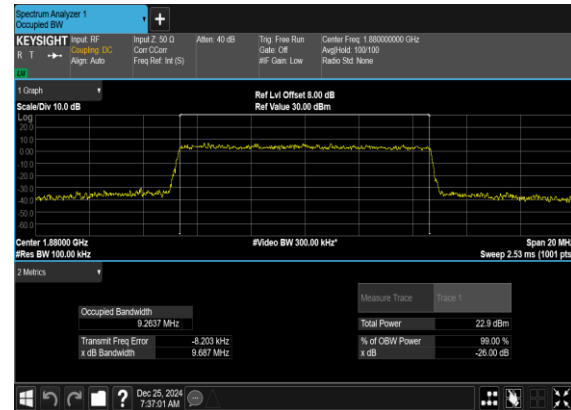
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QAM_Outer_Full_Mid_CH



N2(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

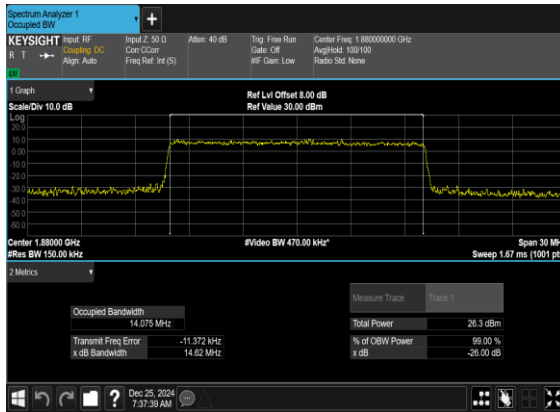


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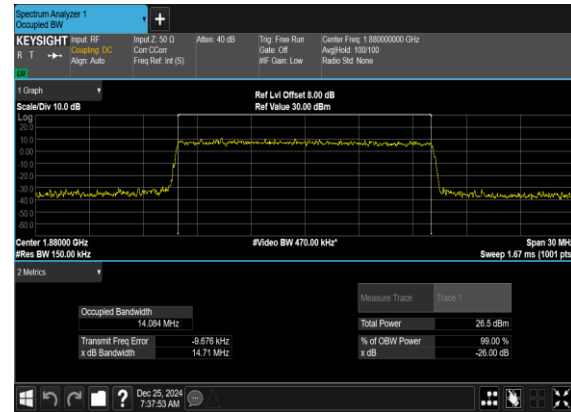




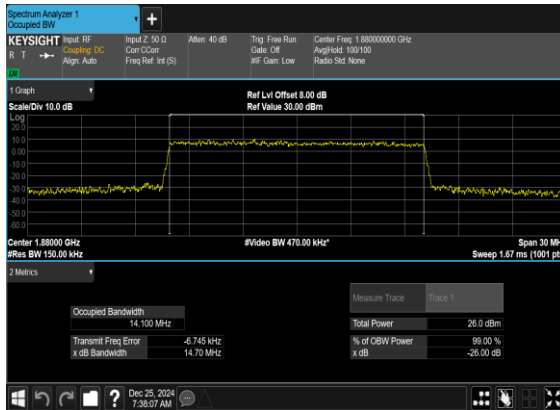
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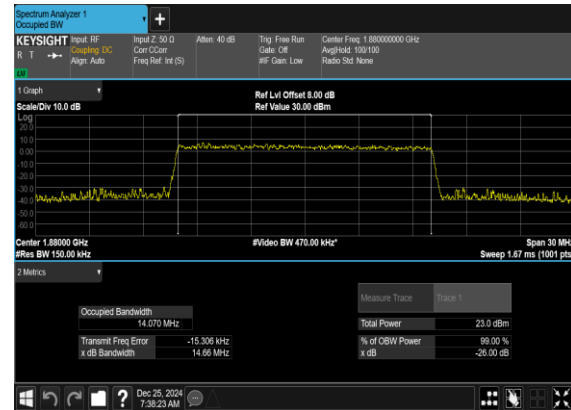
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QAM_Outer_Full_Mid_CH



N2(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

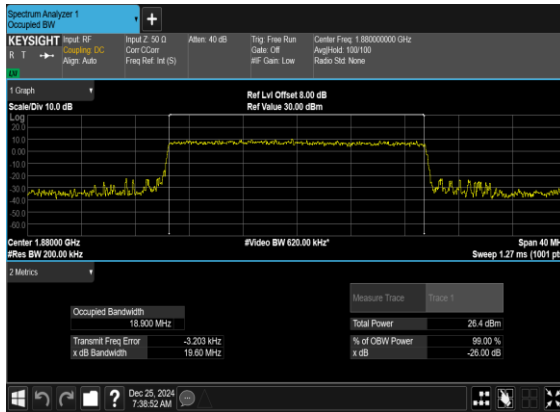


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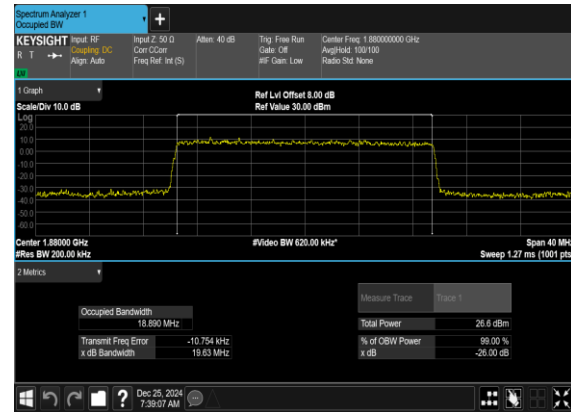




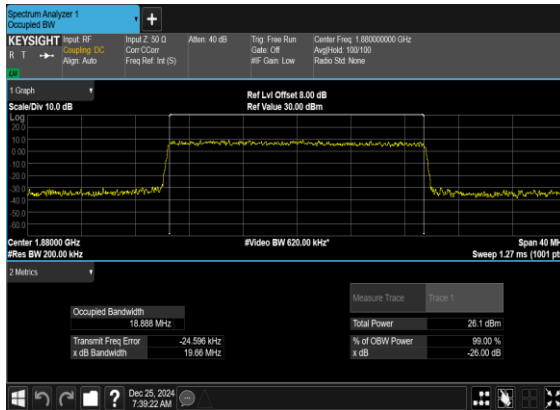
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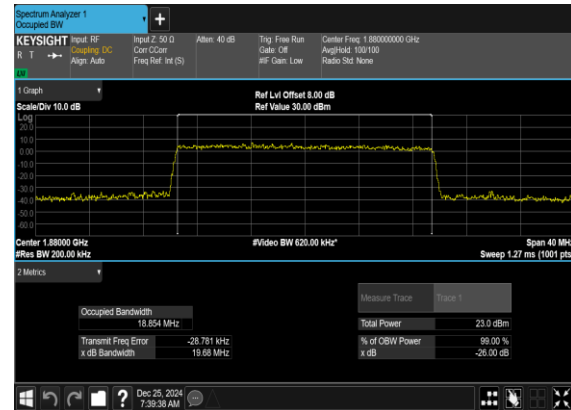
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QAM_Outer_Full_Mid_CH

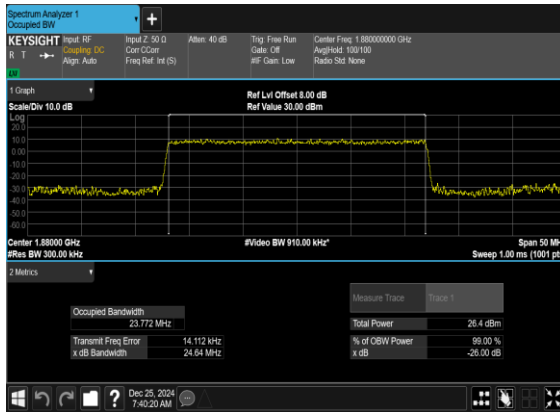


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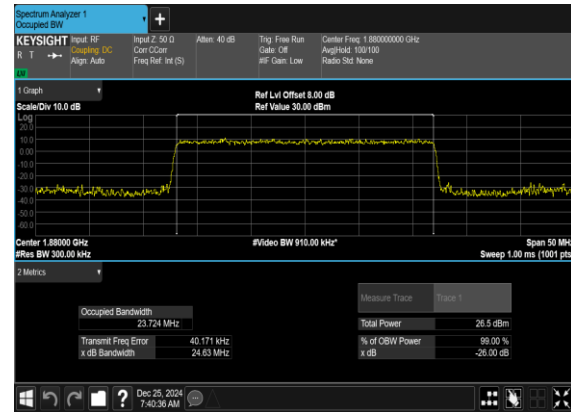




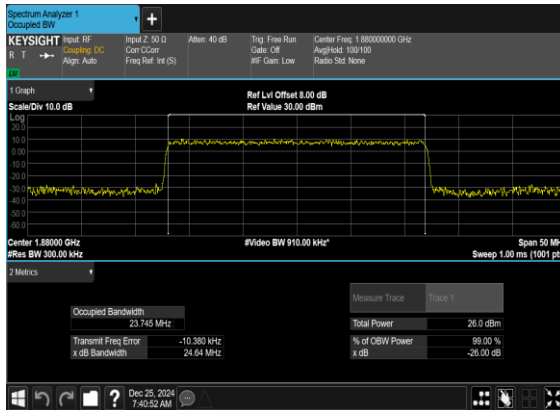
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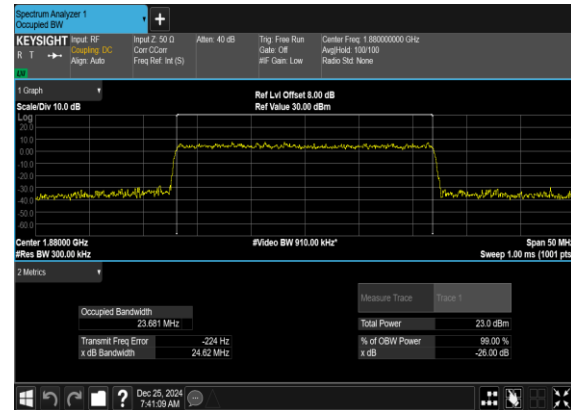
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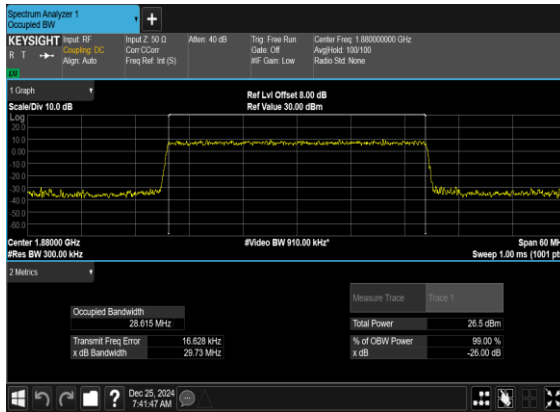


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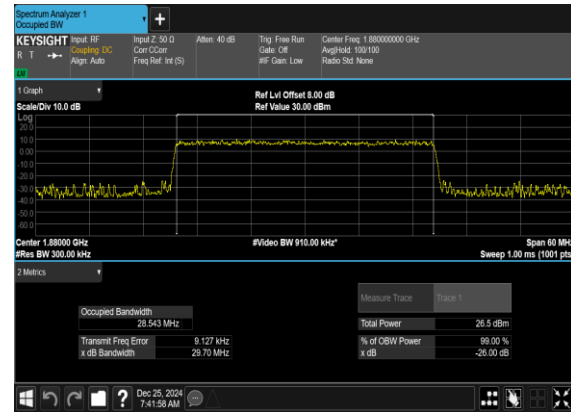




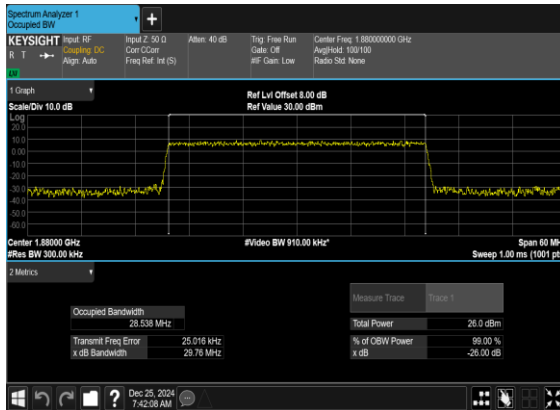
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OFDM_QPSK_Outer_Full_Mid_CH



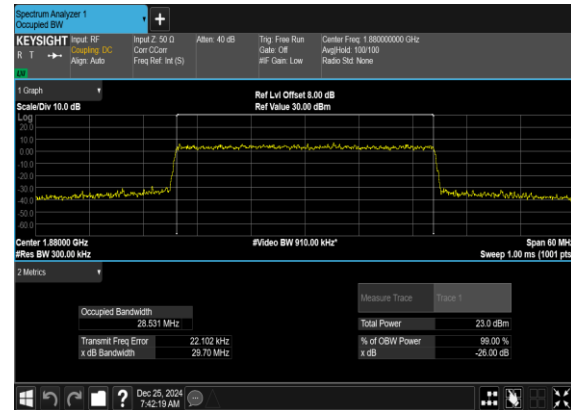
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QAM_Outer_Full_Mid_CH



N2(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

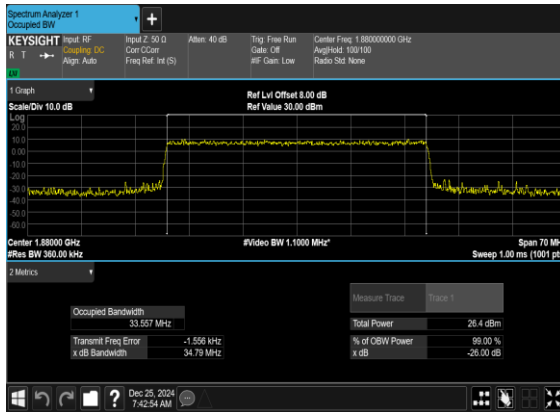


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QAM_Outer_Full_Mid_CH

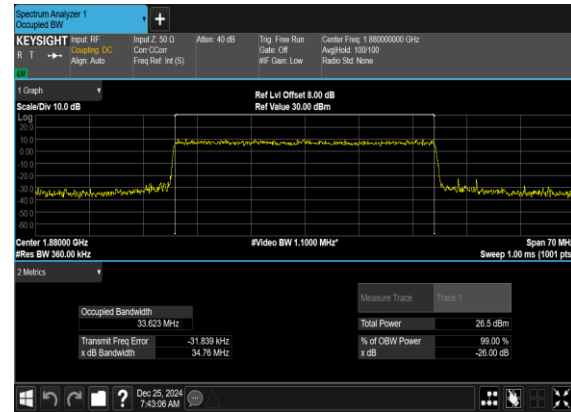




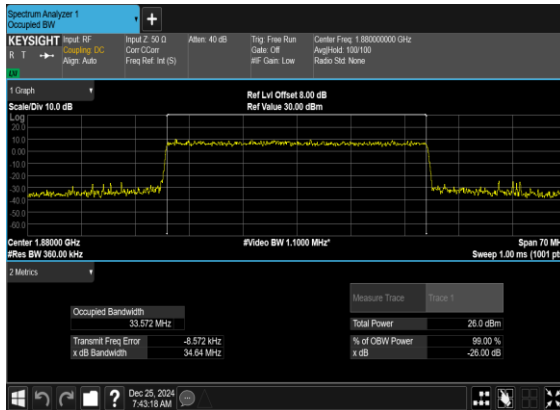
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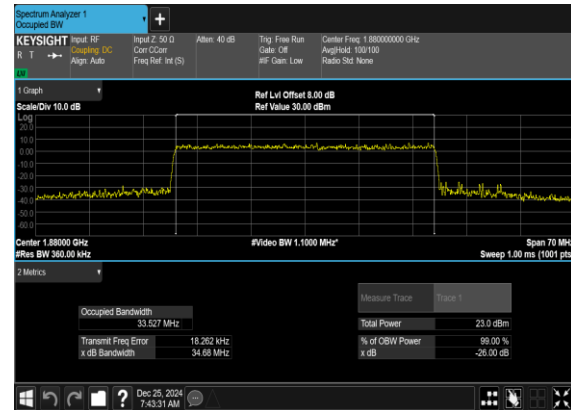
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N2(35M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

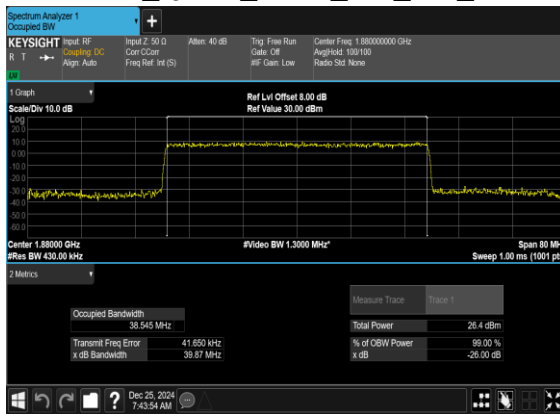


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QAM_Outer_Full_Mid_CH

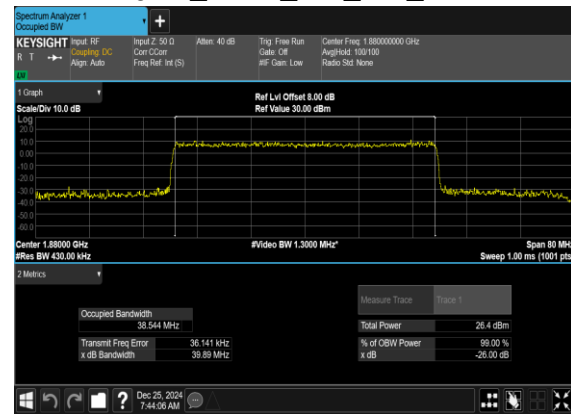




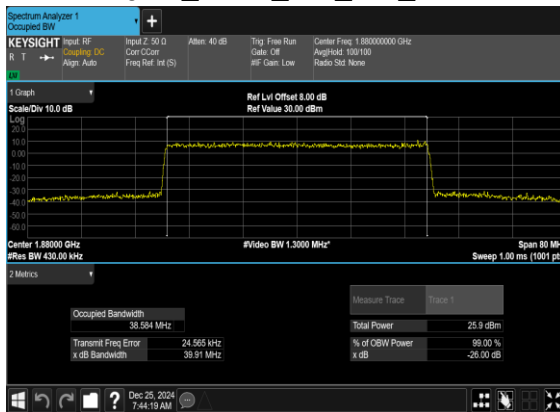
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OFDM_QPSK_Outer_Full_Mid_CH



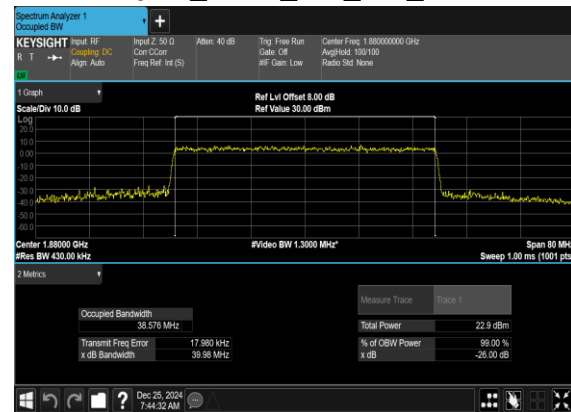
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QAM_Outer_Full_Mid_CH



N2(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N2(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



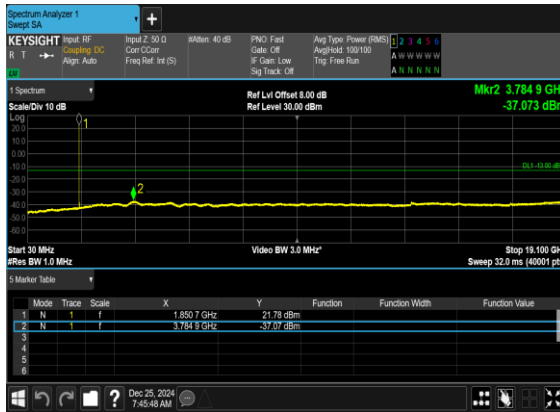
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
2	15	5	370500	1852.5	DFT-s-OFDM BPSK	1@0	see graph	---
2	15	5	370500	1852.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	5	370500	1852.5	DFT-s-OFDM QPSK	1@0	see graph	---
2	15	5	370500	1852.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	5	376000	1880.0	DFT-s-OFDM BPSK	1@0	see graph	---
2	15	5	376000	1880.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	5	376000	1880.0	DFT-s-OFDM QPSK	1@0	see graph	---
2	15	5	376000	1880.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	5	381500	1907.5	DFT-s-OFDM BPSK	1@0	see graph	---
2	15	5	381500	1907.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	5	381500	1907.5	DFT-s-OFDM QPSK	1@0	see graph	---
2	15	5	381500	1907.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	20	372000	1860.0	DFT-s-OFDM BPSK	1@0	see graph	---
2	15	20	372000	1860.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	20	372000	1860.0	DFT-s-OFDM QPSK	1@0	see graph	---
2	15	20	372000	1860.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	20	376000	1880.0	DFT-s-OFDM BPSK	1@0	see graph	---
2	15	20	376000	1880.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	1@0	see graph	---
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

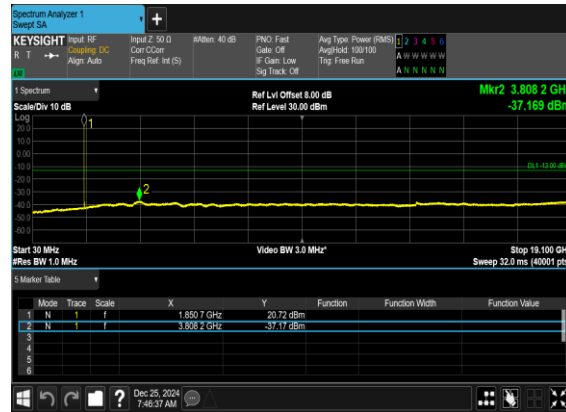
2	15	20	380000	1900.0	DFT-s-OFDM BPSK	1@0	see graph	---
2	15	20	380000	1900.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	20	380000	1900.0	DFT-s-OFDM QPSK	1@0	see graph	---
2	15	20	380000	1900.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	40	374000	1870.0	DFT-s-OFDM BPSK	1@0	see graph	---
2	15	40	374000	1870.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	40	374000	1870.0	DFT-s-OFDM QPSK	1@0	see graph	---
2	15	40	374000	1870.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	40	376000	1880.0	DFT-s-OFDM BPSK	1@0	see graph	---
2	15	40	376000	1880.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	40	376000	1880.0	DFT-s-OFDM QPSK	1@0	see graph	---
2	15	40	376000	1880.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	40	378000	1890.0	DFT-s-OFDM BPSK	1@0	see graph	---
2	15	40	378000	1890.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	40	378000	1890.0	DFT-s-OFDM QPSK	1@0	see graph	---
2	15	40	378000	1890.0	DFT-s-OFDM QPSK	1@0	see graph	PASS



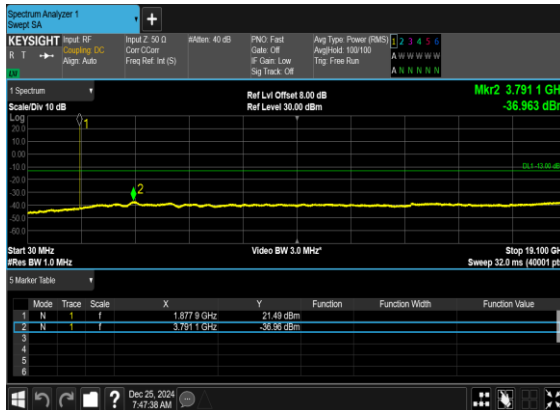
N2(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



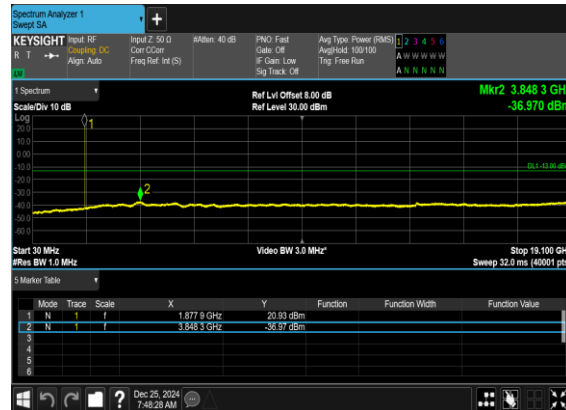
N2(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N2(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH

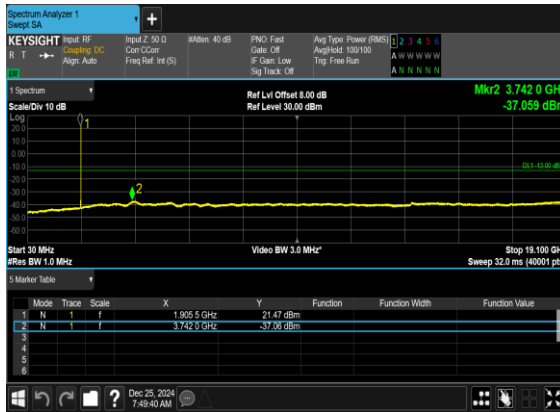


N2(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

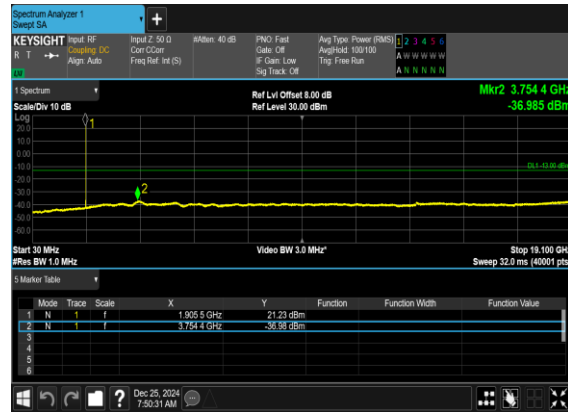




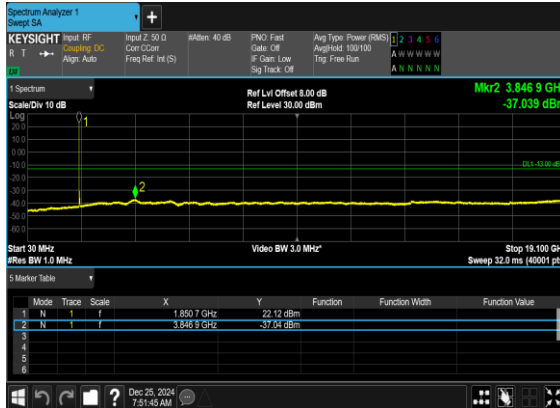
N2(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



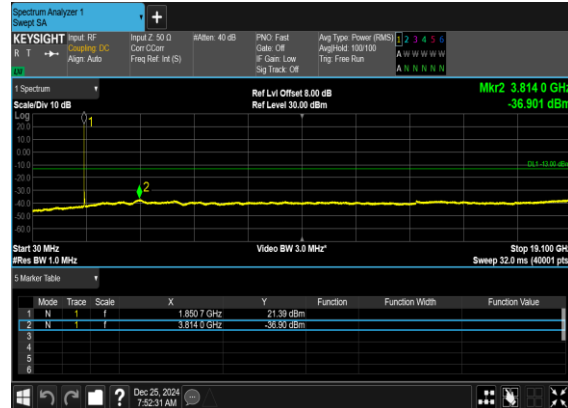
N2(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N2(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH

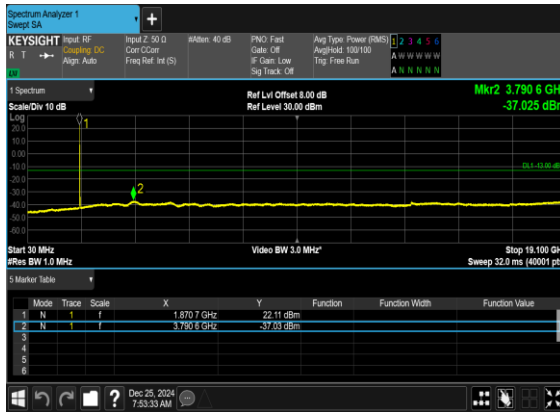


N2(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

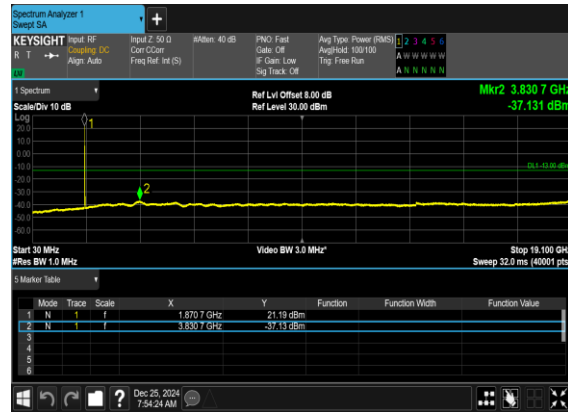




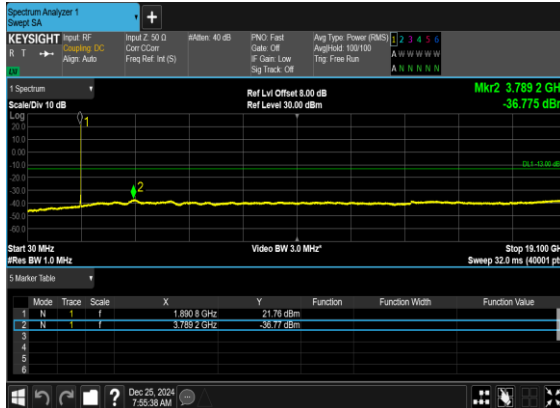
N2(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



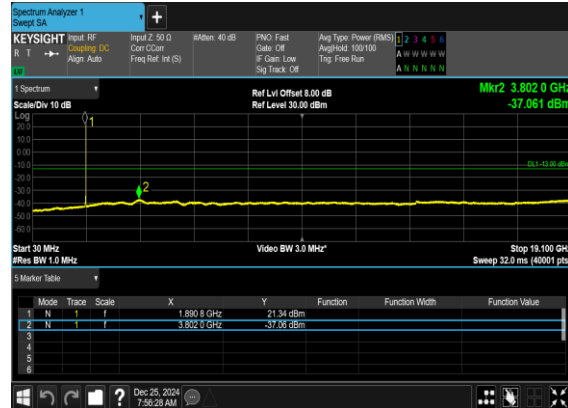
N2(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N2(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH

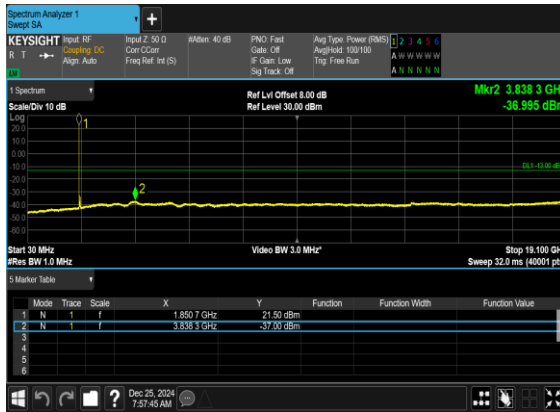


N2(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

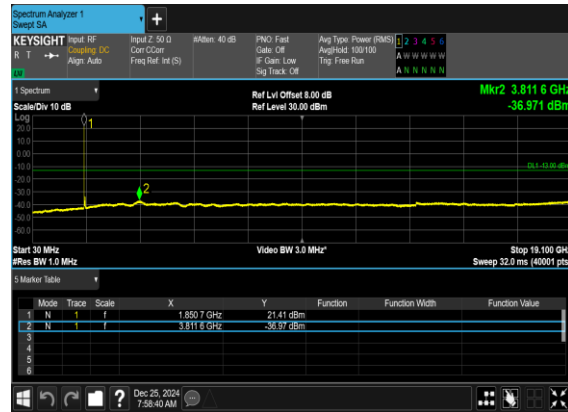




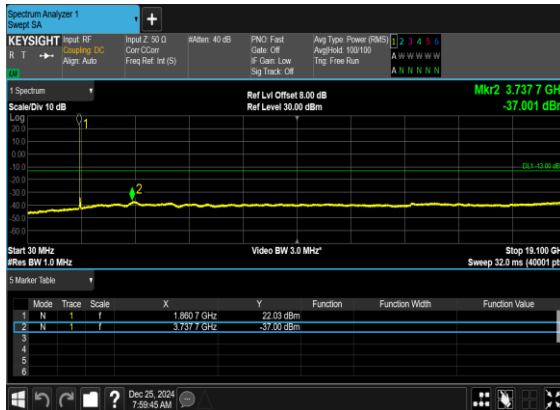
N2(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



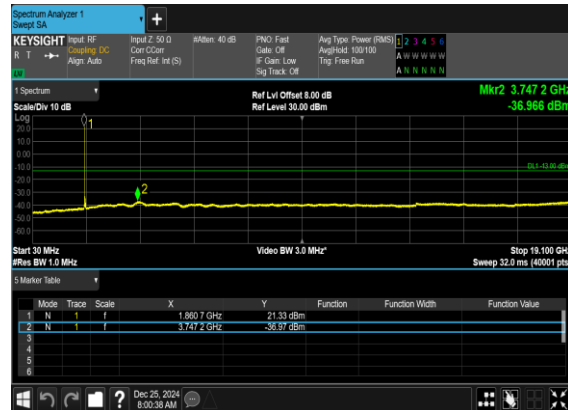
N2(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N2(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH

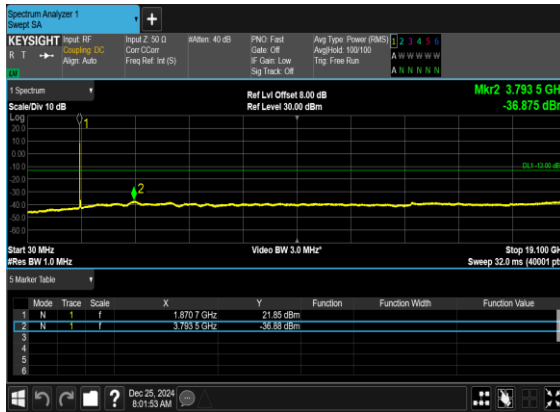


N2(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

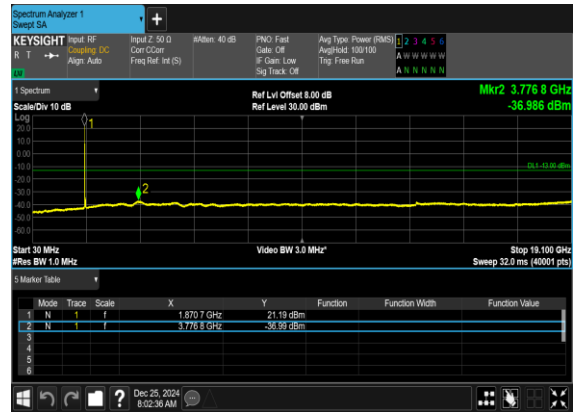




N2(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N2(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



Conducted Band Edge

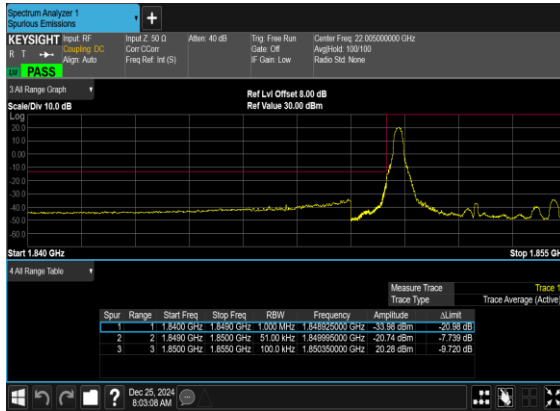
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
2	15	5	370500	1852.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	5	370500	1852.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	5	370500	1852.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
2	15	5	370500	1852.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
2	15	5	381500	1907.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
2	15	5	381500	1907.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
2	15	5	381500	1907.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
2	15	5	381500	1907.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
2	15	20	372000	1860.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	20	372000	1860.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	20	372000	1860.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
2	15	20	372000	1860.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
2	15	20	380000	1900.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
2	15	20	380000	1900.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
2	15	20	380000	1900.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
2	15	20	380000	1900.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
2	15	40	374000	1870.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	40	374000	1870.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	40	374000	1870.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
2	15	40	374000	1870.0	DFT-s-OFDM QPSK	216@0	see graph	PASS



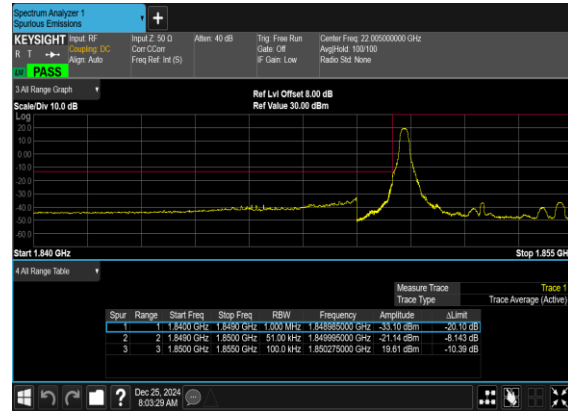
2	15	40	378000	1890.0	DFT-s-OFDM BPSK	1@215	see graph	PASS
2	15	40	378000	1890.0	DFT-s-OFDM QPSK	1@215	see graph	PASS
2	15	40	378000	1890.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
2	15	40	378000	1890.0	DFT-s-OFDM QPSK	216@0	see graph	PASS



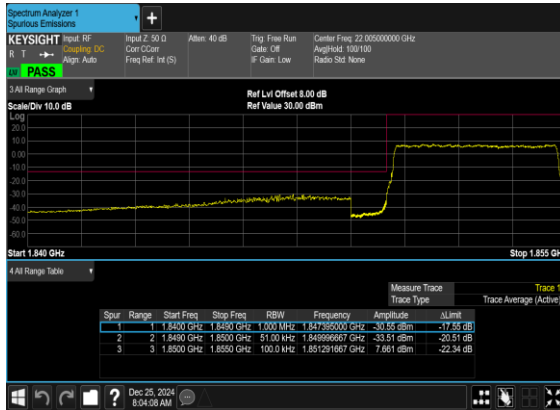
N2(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



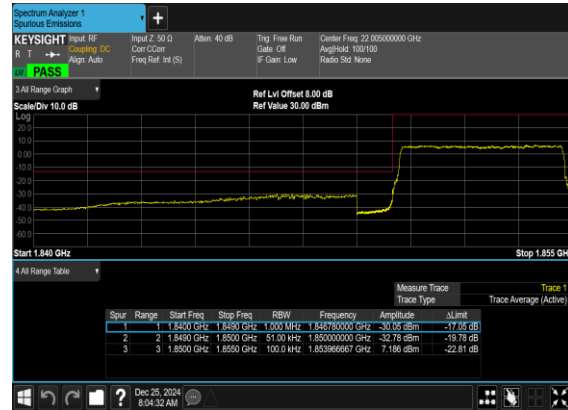
N2(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N2(5M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

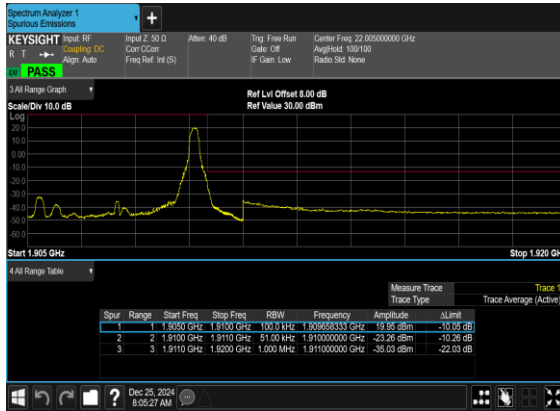


N2(5M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

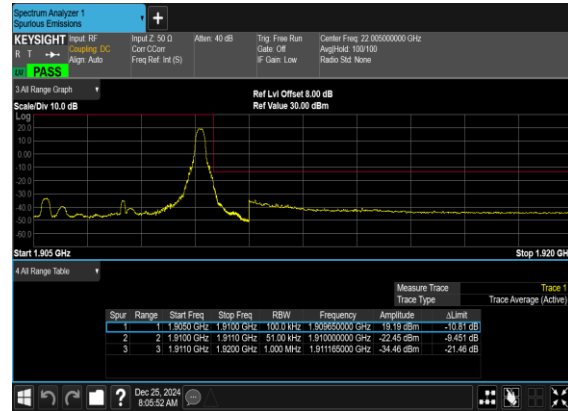




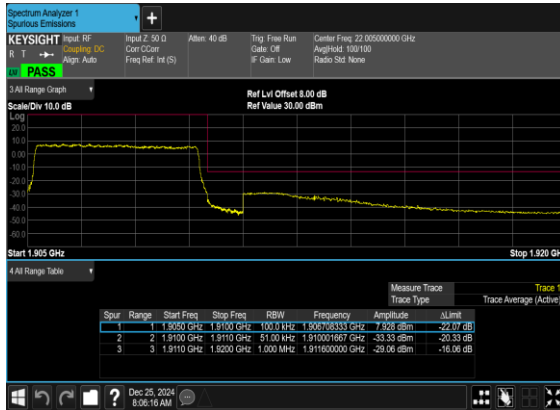
N2(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N2(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N2(5M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

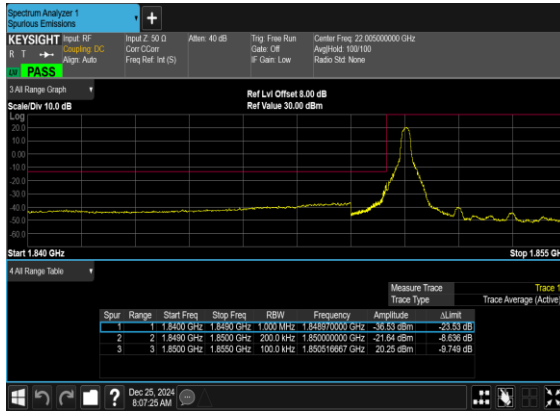


N2(5M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

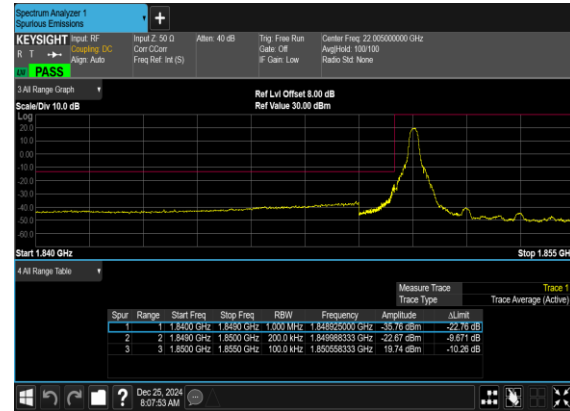




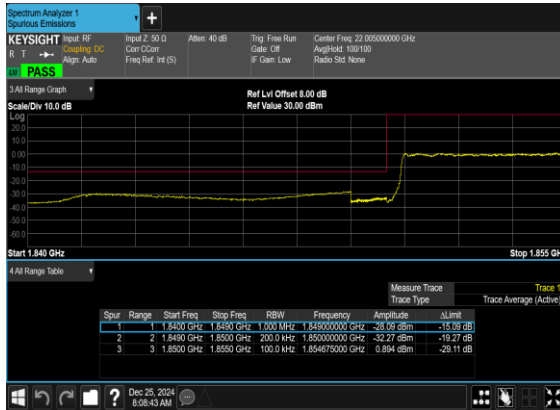
N2(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N2(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N2(20M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N2(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

