



Spot Check Evaluation

FCC ID : UZ7EM45A1
EQUIPMENT : Enterprise Mobile
BRAND NAME : Zebra
MODEL NAME : EM45A1
APPLICANT : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
MANUFACTURER : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
STANDARD : 47 CFR Part 22(H), 24(E), 27(L), 27(D), 27(H), 27(F),
27(M), 27(N), 27(O), 27(Q), 90(S), 90(R), 96
47 CFR Part 15 Subpart C §15.247
47 CFR Part 15 Subpart C §15.225
47 CFR Part 15 Subpart E §15.407

We, Sporton International Inc. (Kunshan), 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. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



TABLE OF CONTENTS

REVISION HISTORY.....	3
1 GENERAL DESCRIPTION	4
1.1 Product Feature of Equipment Under Test	4
1.2 Modification of EUT	5
1.3 Testing Site.....	5
1.4 Test Software	5
1.5 Applicable Standards	6
2 RE-USE OF MEASURED DATA	7
2.1 Introduction Section.....	7
2.2 Model Difference Information	7
2.3 Reference detail Section:	8
2.4 Spot Check Verification Data Section	9
3 LIST OF MEASURING EQUIPMENT	20
4 MEASUREMENT UNCERTAINTY	23
APPENDIX A. TEST SETUP PHOTOGRAPHS	
APPENDIX B. REFERENCE REPORT	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG460505-02S	Rev. 01	Initial issue of report	Feb. 12, 2025



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Enterprise Mobile
Brand Name	Zebra
Model Name	EM45A1
FCC ID	UZ7EM45A1
IMEI Code	Conducted: 354708620060822/354708620063123 Conduction: 354708620060426/354708620064352 Radiation: 354708620060269/ 354708620064113 DFS/CBP: 354708620060657/354708620063206
HW Version	DV
SW Version	14-24-09.00-UG-U00-PRD-ATH-04
MFD	09DEC24
EUT Stage	Identical Prototype

Specification of Accessory				
Battery	Brand Name	Zebra	Model	BT-000501
			Part Number	BT-000501-2000

Supported Unit used in test configuration and system				
AC Adapter 1 (Type C Wall Charger 1)	Brand Name	Zebra	Model	SAWA-102-22520A
			Part Number	PWR-WUA5V45W1US
AC Adapter 2 (Type A Wall Charger 2)	Brand Name	Zebra	Model	SAWA-65-20005A
			Part Number	PWR-WUA5V12W0US
Earphone 1 (Wired headset USB-C)	Brand Name	Zebra	Part Number	HDST-USBC-PTT1-01
Earphone 2 (Rugged Bluetooth Headset)	Brand Name	Zebra	Part Number	HS3100-OTH
Earphone 3 (3.5mm PTT Headset)	Brand Name	Zebra	Part Number	HDST-35MM-PTT1-02
Earphone 4 (Rugged Headset)	Brand Name	Zebra	Part Number	HS2100-OTH
3.5mm to 3.5mm audio connector	Brand Name	Zebra	Part Number	CBL-HS2100-3MS1-01
Type C-Audio Cable (Type C to 3.5mm)	Brand Name	Zebra	Part Number	ADP-USBC-35MM1-01
USB Cable 1 (USB-C to C Cable)	Brand Name	Zebra	Part Number	CBL-EC5X-USBC3A-01
USB Cable 2 (USB-A to C Cable)	Brand Name	Zebra	Part Number	CBL-TC5X-USBC2A-01
EM45 Protective Case	Brand Name	Zebra	Part Number	SG-EM45EXO2-01



1.2 Modification of EUT

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

1.3 Testing Site

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

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-KS CO01-KS DFS01-KS 03CH02-KS 03CH04-KS 03CH06-KS	CN1257	314309

1.4 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH02-KS	AUDIX	E3	6.2009-8-24a1
3.	03CH04-KS	AUDIX	E3	210616
4.	03CH06-KS	AUDIX	E3	210616
5.	DFS01-KS	Sporton	Test Tools	1.0
6.	CO01-KS	AUDIX	E3	6.2009-8-24

1.5 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 22(H), 24(E), 27(L), 27(D), 27(H), 27(F), 27(M), 27(N), 27(O), 27(Q), 90(S), 90(R), 96
- ♦ ANSI C63.10-2013
- ♦ ANSI C63.26-2015
- ♦ 47 CFR Part 15 Subpart C §15.225
- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ 47 CFR Part 15 Subpart E §15.407



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: EM45A1, FCC ID: UZ7EM45A1) is electrically identical to the reference device (Model: EM45A2, FCC ID: UZ7EM45A2) 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 FA460505-02.

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: UZ7EM45A1.

2.2 Model Difference Information

The **main** difference between FCC ID: UZ7EM45A2 and FCC ID: UZ7EM45A1 is as below:

- Removed RFID function.
- Antenna 1 removed WWAN TX function, keep supported Low bands and Middle bands RX function.

Other differences and all the details of similarity and difference can be found in the confidential documents (UZ7EM45A1 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	UZ7EM45A2	Full test	FR460505A	UZ7EM45A1	Spot check	Y, All test items
	DTS (BLE)	2400~2483.5	UZ7EM45A2	Full test	FR460505B	UZ7EM45A1	Spot check	Y, All test items
	DTS (WLAN)	2400~2483.5	UZ7EM45A2	Full test	FR460505C	UZ7EM45A1	Spot check	Y, All test items
	DXX (NFC)	13.56	UZ7EM45A2	Full test	FR460505D	UZ7EM45A1	Spot check	Y, All test items
15E	U-NII	5180~5240	UZ7EM45A2	Full test	FR460505E	UZ7EM45A1	Spot check	Y, All test items
		5260~5320	UZ7EM45A2	Full test	FR460505E	UZ7EM45A1	Spot check	Y, All test items
		5500~5720	UZ7EM45A2	Full test	FR460505E	UZ7EM45A1	Spot check	Y, All test items
		5745~5825	UZ7EM45A2	Full test	FR460505E	UZ7EM45A1	Spot check	Y, All test items
		5260~5320 5500~5720	UZ7EM45A2	Full test	FZ460505	UZ7EM45A1	Spot check	Y, All test items
	6CD	5925~7125	UZ7EM45A2	Full test	FR460505G FR460505H	UZ7EM45A1	Spot check	Y, All test items
22, 24, 27, 90, 96,	PCE (WCDMA)	Band II, IV, V	UZ7EM45A2	Full test	FG460505A	UZ7EM45A1	Spot check	Y, All test items
	PCE (LTE)	B2/4/5/7/12/13/17/25/ 26/30/38/41/66/71 ULCA 5B/7C/38C 41C/66B/66C	UZ7EM45A2	Full test	FG460505B FG460505C FG460505D FG460505G FG460505J	UZ7EM45A1	Spot check	Y, All test items
	PCE (LTE)	B14 (90R)	UZ7EM45A2	Full test	FG460505E	UZ7EM45A1	Spot check	Y, All test items
	PCE (LTE)	B26 (90S)	UZ7EM45A2	Full test	FG460505F	UZ7EM45A1	Spot check	Y, All test items
	CBE (LTE)	B48/48C (Part96)	UZ7EM45A2	Full test	FG460505H FG460505I	UZ7EM45A1	Spot check	Y, All test items
	PCE (NR)	n2/n5/n7/n12/n13/n25/ n26/n30/n38/n41/n66/ n71/n77/n78	UZ7EM45A2	Full test	FG460505K FG460505L FG460505O FG460505R FG460505S	UZ7EM45A1	Spot check	Y, All test items
	PCE (NR)	n14 (90R)	UZ7EM45A2	Full test	FG460505M	UZ7EM45A1	Spot check	Y, All test items
	PCE (NR)	n26 (90S)	UZ7EM45A2	Full test	FG460505N	UZ7EM45A1	Spot check	Y, All test items
	CBE (NR)	n48/n77/n78 (Part96)	UZ7EM45A2	Full test	FG460505P FG460505Q	UZ7EM45A1	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	UZ7EM45A2 Parent Worst mode Test Result	UZ7EM45A1 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
BT 1Mbps (CH78)	Number of Channels	79	79	0	3
	Hopping Channel Separation	0.996	1.004	0.008	3
	Dwell Time of Each Channel	0.31	0.31	0	3
	20dB Bandwidth	0.94	0.94	0	3
	99% Bandwidth	0.836	0.845	0.009	3
	Conducted Band Edges	-41.83	-44.27	2.44	3
	Conducted Spurious Emission	-45.65	-48	2.35	3
BT 1Mbps (CH39)	Radiated Band Edges and Radiated Spurious Emission	55.68	56.85	1.17	3
BT	AC Conducted Emission	11.93	10.83	1.1	3
BLE 1Mbps (CH39)	6dB Bandwidth	1.15	1.15	0	3
	99% Bandwidth	2.01	2.014	0.004	3
	Power Spectral Density	-9.33	-9.34	0.01	3
	Conducted Band Edges	-33.74	-33.98	0.24	3
	Conducted Spurious Emission	-51.53	-52.95	1.42	3
BLE 2Mbps (CH39)	Radiated Band Edges and Spurious Emission	47.73	46.09	1.46	3
BLE	AC Conducted Emission	11.93	10.83	1.1	3
WIFI 2.4G (802.11b CH11)	6dB Bandwidth	8.08	8.08	0	3
	99% Bandwidth	13.467	13.387	0.08	3
	Power Spectral Density	-1.15	-1.27	0.12	3
	Conducted Band Edges	-47.96	-48.2	0.24	3
	Conducted Spurious Emission	-43.67	-45.68	2.01	3
WIFI 2.4G (802.11ax HE20 CH11)	Radiated Band Edges and Spurious Emission	52.29	49.61	2.68	3
WIFI 2.4G	AC Conducted Emission	11.93	10.83	1.1	3
WIFI 5G (802.11a CH149)	26dB Bandwidth	19.29	19.2	0.09	3
WIFI 5G (802.11a CH149)	99% Bandwidth	16.705	16.705	0	3
WIFI 5G (802.11a CH149)	Power Spectral Density	8.3	7.99	0.31	3
WIFI 5G (802.11a CH149)	Unwanted Emissions	16.31	16.31	0	3
WIFI 5G (11ax HE80 Ch42)	Radiated Band Edges and Spurious Emission	50.86	50.93	0.07	3
WIFI 5G	AC Conducted Emission	12.50	11.33	1.17	3
WIFI 5G (802.11a CH116)	DFS	0.851628	0.87852	0.026	3
FCC-WIFI 6G UNII-5 (802.11ax HE80 CH47 6185MHz)-6XD	26dB Emission Bandwidth	165.79	165.41	0.38	3
	99% Occupied Bandwidth	157.105	157.257	0.152	3
	Fundamental Maximum EIRP	17.30	17.00	0.30	3
	Fundamental Power Spectral Density	-3.33	-5.16	1.83	3
	In-Band Emissions	-12.47	-11.09	1.38	3

FCC-WIFI 6G UNII-5 (802.11ax HE80 CH47 6185MHz)-6CD	26dB Emission Bandwidth	165.79	165.41	0.38	3
	99% Occupied Bandwidth	157.105	157.257	0.152	3
	Fundamental Maximum EIRP	17.30	17.04	0.26	3
	Fundamental Power Spectral Density	-3.33	-5.16	1.83	3
	In-Band Emissions	-12.47	-11.09	1.38	3
WIFI 6G UNII-5 (802.11ax HE160 CH47 6185MHz)	Contention Based Protocol	-65.36	-65.88	0.52	3
6E (802.11ax HE20_Ch233)	Radiated Band Edges and Spurious Emission	66.93	67.17	0.24	3
WIFI 6G	AC Conducted Emission	11.52	12.62	1.1	3
Part 15C NFC	20dB Spectrum Bandwidth	2.48	2.48	0	3
	99% OBW Spectrum Bandwidth	2.10	2.11	0.01	3
	Frequency Stability	-22.9351	-20.8333	2.1018	3
	Field Strength of Fundamental Emissions	58.04	58.19	0.15	3
	Radiated Spurious Emissions	33.28	35.09	1.81	3
	AC Conducted Emissions	11.94	11.86	0.06	3

Mode	Test Item	UZ7EM45A2 Parent Worst mode Test Result	UZ7EM45A1 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Part 96 SA_n77	Radiated Spurious Emission	-43.4	-43.69	0.29	3
Part 96 SA_n48	End User Device additional requirement	Pass	Pass	-	-
Part96 Band48CA	Equivalent Isotropic Radiated Power	20.99	20.96	0.203	3
	Peak-to-Average Ratio	6.43	6.22	0.21	3
	Occupied Bandwidth	32.80	32.80	0.00	3
	Conducted Band Edge	-40.19	-40.98	0.79	3
	Conducted Spurious Emission	-48.81	-47.65	1.16	3
	Frequency Stability	0.0005	0.0011	0.0006	3



Conducted power for Unlicensed bands

Test Item	Mode	UZ7EM45A2 Parent Worst mode Test Result	UZ7EM45A1 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Conducted Power (dBm)	BT BR/EDR	9.32	8.85	0.47	3
	BLE 1Mbps	9.12	8.87	0.25	3
	BLE 2Mbps	9.33	9.00	0.33	3
	11b, 2.4GHz	22.51	22.46	0.05	3
	11g, 2.4GHz	21.97	21.92	0.05	3
	11n HT20, 2.4GHz	21.27	21.20	0.07	3
	11ac VHT20, 2.4GHz	21.31	21.25	0.06	3
	11ax HE20, 2.4GHz	21.33	21.31	0.02	3
	11a, 5.2GHz	22.28	22.15	0.13	3
	11a, 5.3GHz	22.27	22.08	0.19	3
	11a, 5.5GHz	22.41	22.22	0.19	3
	11a, 5.8GHz	22.45	22.39	0.06	3
	11n HT20, 5.2GHz	21.20	21.11	0.09	3
	11n HT20, 5.3GHz	20.56	20.27	0.29	3
	11n HT20, 5.5GHz	21.42	21.01	0.41	3
	11n HT20, 5.8GHz	21.51	21.14	0.37	3
	11ac VHT20, 5.2GHz	21.25	21.16	0.09	3
	11ac VHT20, 5.3GHz	20.62	20.31	0.31	3
	11ac VHT20, 5.5GHz	21.46	21.04	0.42	3
	11ac VHT20, 5.8GHz	21.56	21.17	0.39	3
	11ax HE20, 5.2GHz	21.29	21.20	0.09	3
	11ax HE20, 5.3GHz	20.68	20.38	0.30	3
	11ax HE20, 5.5GHz	21.41	21.09	0.32	3
	11ax HE20, 5.8GHz	21.41	21.06	0.35	3
	11n HT40, 5.2GHz	20.45	20.03	0.42	3
	11n HT40, 5.3GHz	20.22	19.85	0.37	3
	11n HT40, 5.5GHz	20.52	20.33	0.19	3
	11n HT40, 5.8GHz	20.30	20.24	0.06	3
	11ac VHT40, 5.2GHz	20.51	20.08	0.43	3
	11ac VHT40, 5.3GHz	20.27	19.89	0.38	3
	11ac VHT40, 5.5GHz	20.55	20.39	0.16	3
	11ac VHT40, 5.8GHz	20.36	20.32	0.04	3
	11ax HE40, 5.2GHz	20.56	20.14	0.42	3
	11ax HE40, 5.3GHz	20.30	19.94	0.36	3
	11ax HE40, 5.5GHz	20.60	20.44	0.16	3
	11ax HE40, 5.8GHz	20.42	20.35	0.07	3
	11ac VHT80, 5.2GHz	20.25	20.02	0.23	3
	11ac VHT80, 5.3GHz	20.03	19.77	0.26	3
	11ac VHT80, 5.5GHz	20.18	20.01	0.17	3
	11ac VHT80, 5.8GHz	19.83	19.79	0.04	3
	11ax HE80, 5.2GHz	20.31	20.05	0.26	3
	11ax HE80, 5.3GHz	20.07	19.79	0.28	3
	11ax HE80, 5.5GHz	20.21	20.03	0.18	3
	11ax HE80, 5.8GHz	19.85	19.82	0.03	3
	11ac VHT160, 5.3GHz	19.21	19.11	0.10	3
	11ac VHT160, 5.5GHz	19.48	19.24	0.24	3
	11ax HE160, 5.3GHz	19.23	19.14	0.09	3
	11ax HE160, 5.5GHz	19.52	19.28	0.24	3
	6CD Indoor 11a, U-NII-5	7.13	7.06	0.07	3
	6CD Indoor 11a, U-NII-6	7.63	7.61	0.02	3
	6CD Indoor 11a, U-NII-7	6.43	6.38	0.05	3
	6CD Indoor 11a, U-NII-8	5.80	5.71	0.09	3
	6CD Indoor 11ax HE20, U-NII-5	10.68	10.47	0.21	3
	6CD Indoor 11ax HE20, U-NII-6	11.19	11.12	0.07	3



6CD Indoor 11ax HE20, U-NII-7	9.90	9.86	0.04	3
6CD Indoor 11ax HE20, U-NII-8	9.18	8.91	0.27	3
6CD Indoor 11ax HE40, U-NII-5	13.56	13.40	0.16	3
6CD Indoor 11ax HE40, U-NII-6	14.02	13.89	0.13	3
6CD Indoor 11ax HE40, U-NII-7	12.74	12.65	0.09	3
6CD Indoor 11ax HE40, U-NII-8	12.41	12.34	0.07	3
6CD Indoor 11ax HE80, U-NII-5	16.49	16.28	0.21	3
6CD Indoor 11ax HE80, U-NII-6	16.36	16.34	0.02	3
6CD Indoor 11ax HE80, U-NII-7	16.05	15.96	0.09	3
6CD Indoor 11ax HE80, U-NII-8	15.84	15.78	0.06	3
6CD Indoor 11ax HE160, U-NII-5	16.95	16.65	0.30	3
6CD Indoor 11ax HE160, U-NII-6	16.48	16.09	0.39	3
6CD Indoor 11ax HE160, U-NII-7	16.71	16.43	0.28	3
6CD Indoor 11ax HE160, U-NII-8	16.80	16.50	0.30	3
6CD Outdoor 11a, U-NII-5	17.02	16.53	0.49	3
6CD Outdoor 11a, U-NII-7	16.69	16.62	0.07	3
6CD Outdoor 11ax HE20, U-NII-5	16.95	16.55	0.40	3
6CD Outdoor 11ax HE20, U-NII-7	16.61	16.26	0.35	3
6CD Outdoor 11ax HE40, U-NII-5	16.90	16.60	0.30	3
6CD Outdoor 11ax HE40, U-NII-7	16.52	16.22	0.30	3
6CD Outdoor 11ax HE80, U-NII-5	16.85	16.52	0.33	3
6CD Outdoor 11ax HE80, U-NII-7	16.43	16.13	0.30	3
6CD Outdoor 11ax HE160, U-NII-5	16.95	16.65	0.30	3
6CD Outdoor 11ax HE160, U-NII-7	16.42	16.20	0.22	3

Conducted power for Licensed bands

Test Item	Mode	UZ7EM45A2 Parent Worst mode Test Result	UZ7EM45A1 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Conducted Power (dBm)	WCDMA II	23.97	23.79	0.18	3
	WCDMA IV	23.92	23.88	0.04	3
	WCDMA V	23.98	23.66	0.32	3
	LTE B2	23.66	23.24	0.42	3
	LTE B4	23.56	23.32	0.24	3
	LTE B5	23.69	23.35	0.34	3
	LTE B5B	23.65	23.52	0.13	3
	LTE B7	22.8	22.61	0.19	3
	LTE B7C	22.79	22.75	0.04	3
	LTE B12	23.89	23.65	0.24	3
	LTE B13	23.71	23.31	0.4	3
	LTE B14	23.83	23.38	0.45	3
	LTE B17	23.82	23.43	0.39	3
	LTE B25	23.68	23.19	0.49	3
	LTE B26L	23.47	23.26	0.21	3
	LTE B26H	23.71	23.26	0.45	3
	LTE B30	23.69	23.57	0.12	3
	LTE B66	23.60	23.28	0.32	3
	LTE B71	22.76	22.72	0.04	3
	LTE B38	22.77	22.70	0.07	3
	LTE B41	26.01	26.00	0.01	3
	LTE B38C	22.63	22.59	0.04	3
	LTE B41C	25.73	25.62	0.11	3
	LTE B48 part96	21.85	21.82	0.03	3
	LTE B48C part96	21.55	21.52	0.03	3
	LTE B66B	23.49	23.27	0.22	3
	LTE B66C	23.32	23.21	0.11	3



N13	24.27	23.96	0.31	3
N14	24.26	23.98	0.28	3
N26 L	24.45	24.06	0.39	3
N26 H	24.49	24.02	0.47	3
ENDC_48A_n66A	24.22	24.18	0.04	3
N77 270 MIMO	24.70	24.36	0.34	3
N78 270 MIMO	24.61	24.32	0.29	3
N77 part96 MIMO	22.31	22.25	0.06	3
N78 part96 MIMO	22.26	22.19	0.07	3
N77 27Q MIMO	24.45	24.12	0.33	3
N78 27Q MIMO	24.11	23.86	0.25	3
ENDC_5A_n2A	24.72	24.27	0.45	3
ENDC_12A_n25A	24.74	24.29	0.45	3
ENDC_2A_n5A	24.39	24.31	0.08	3
ENDC_2A_n7A	23.85	23.51	0.34	3
ENDC_2A_n12A	24.52	24.25	0.27	3
ENDC_2A_n30A	23.65	23.58	0.07	3
ENDC_2A_n38A	23.59	23.45	0.14	3
ENDC_2A_n41A	26.56	26.45	0.11	3
ENDC_2A_n71A	23.39	23.31	0.08	3
ENDC_2A_N77A 270	26.23	26.17	0.06	3
ENDC_2A_N78A 270	26.01	25.94	0.07	3
ENDC_2A_N77A 27Q	25.99	25.75	0.24	3
ENDC_2A_N78A 27Q	25.81	25.47	0.34	3
ENDC_2A_N77A part96	22.85	22.62	0.23	3
ENDC_2A_N78A part96	22.76	22.58	0.18	3
ENDC_2A_N48A part96	22.04	22.01	0.03	3

6CD- < indoor client>

<SISO mode>

U-NII-5 SISO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
					Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10			Ant 8	Ant 10
11a	6Mbps	1	001	5955	0.03	0.03	4.55	3.39	0.35	-0.85	4.90	2.54	24.00	Pass	4.5	

U-NII-5 SISO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
						Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10			Ant 8	Ant 10
HE20	MCS0	1	049	6195	Full	0.00	0.00	7.91	6.82	0.35	-0.85	8.26	5.97	24.00	Pass	8	8
HE40	MCS0	1	003	5965	Full	0.00	0.00	10.63	10.08	0.35	-0.85	10.98	9.23	24.00	Pass	11	11
HE80	MCS0	1	007	5985	Full	0.00	0.00	13.43	13.02	0.35	-0.85	13.78	12.17	24.00	Pass	14	14
HE160	MCS0	1	047	6185	Full	0.00	0.00	14.01	13.13	0.35	-0.85	14.36	12.28	24.00	Pass	14	14

U-NII-6 SISO															
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
				Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10			Ant 8	Ant 10
11a	6Mbps	1	6515	0.03	0.04	4.81	4.31	0.75	-2.44	5.56	1.87	24.00	Pass	5.5	5.5



U-NII-6 SISO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
						Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10			Ant 8	Ant 10
HE20	MCS0	1	105	6475	Full	0.00	0.00	8.41	7.67	0.75	-2.44	9.16	5.23	24.00	Pass	9	9
HE40	MCS0	1	107	6485	Full	0.00	0.00	11.21	10.45	0.75	-2.44	11.96	8.01	24.00	Pass	12	12
HE80	MCS0	1	103	6465	Full	0.00	0.00	13.63	12.91	0.75	-2.44	14.38	10.47	24.00	Pass	14	14
HE160	MCS0	1	111	6505	Full	0.00	0.00	13.37	12.72	0.75	-2.44	14.12	10.28	24.00	Pass	14	14

U-NII-7 SISO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
					Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10			Ant 8	Ant 10
11a	6Mbps	1	117	6535	0.03	0.04	3.54	3.14	1.02	0.16	4.56	3.30	24.00	Pass	4	4

U-NII-7 SISO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
						Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10			Ant 8	Ant 10
HE20	MCS0	1	117	6535	Full	0.00	0.00	7.19	6.43	1.02	0.16	8.21	6.59	24.00	Pass	7.5	7.5
HE40	MCS0	1	123	6565	Full	0.00	0.00	9.97	9.19	1.02	0.16	10.99	9.35	24.00	Pass	10.5	10.5
HE80	MCS0	1	135	6625	Full	0.00	0.00	13.33	12.45	1.02	0.16	14.35	12.61	24.00	Pass	14	14
HE160	MCS0	1	175	6825	Full	0.00	0.00	13.25	13.51	1.02	0.16	14.27	13.67	24.00	Pass	14	14

U-NII-8 SISO															
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
				Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10			Ant 8	Ant 10
11a	6Mbps	1	7095	0.03	0.04	2.72	2.58	0.70	1.66	3.42	4.24	24.00	Pass	3.5	3.5

U-NII-8 SISO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
						Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10			Ant 8	Ant 10
HE20	MCS0	1	229	7095	Full	0.00	0.00	5.85	5.76	0.70	1.66	6.55	7.42	24.00	Pass	6.5	6.5
HE40	MCS0	1	227	7085	Full	0.00	0.00	9.27	9.26	0.70	1.66	9.97	10.92	24.00	Pass	10	10
HE80	MCS0	1	199	6945	Full	0.00	0.00	12.98	12.45	0.70	1.66	13.68	14.11	24.00	Pass	13.5	13.5
HE160	MCS0	1	207	6985	Full	0.00	0.00	13.22	13.58	0.70	1.66	13.92	15.24	24.00	Pass	14	14



<CDD mode>

U-NII-5 MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
					Ant 8	Ant 10	Ant 8	Ant 10	SUM	Ant 8	Ant 10				SUM	Ant 8
11a	6Mbps	2	001	5955	0.03	0.04	4.60	3.43	7.06	0.35		7.41	24.00	Pass	4.5	

U-NII-6 MIMO															
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
				Ant 8	Ant 10	Ant 8	Ant 10	SUM	Ant 8	Ant 10				Ant 8	Ant 10
11a	6Mbps	2	6515	0.03	0.04	4.84	4.35	7.61	0.75		8.36	24.00	Pass	5.5	

U-NII-7 MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
					Ant 8	Ant 10	Ant 8	Ant 10	SUM	Ant 8	Ant 10				SUM	Ant 8
11a	6Mbps	2	117	6535	0.03	0.04	3.57	3.17	6.38	1.02		7.40	24.00	Pass	4	

U-NII-8 MIMO															
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
				Ant 8	Ant 10	Ant 8	Ant 10	SUM	Ant 8	Ant 10				Ant 8	Ant 10
11a	6Mbps	2	7095	0.03	0.04	2.74	2.65	5.71	1.66		7.37	24.00	Pass	3.5	

<SDM mode>

U-NII-5 MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
						Ant 8	Ant 10	Ant 8	Ant 10	SUM	Ant 8	Ant 10				SUM	Ant 8
HE20	MCS0	2	049	6195	Full	0.00	0.00	7.96	6.89	10.47	0.35		10.82	24.00	Pass	8	
HE40	MCS0	2	003	5965	Full	0.00	0.00	10.67	10.10	13.40	0.35		13.75	24.00	Pass	11	
HE80	MCS0	2	007	5985	Full	0.00	0.00	13.49	13.04	16.28	0.35		16.63	24.00	Pass	14	
HE160	MCS0	2	047	6185	Full	0.00	0.00	14.06	13.17	16.65	0.35		17.00	24.00	Pass	14	



U-NII-6 MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
						Ant 8	Ant 10	Ant 8	Ant 10	SUM	Ant 8	Ant 10	SUM			Ant 8	Ant 10
HE20	MCS0	2	105	6475	Full	0.00	0.00	8.44	7.76	11.12	0.75		11.87	24.00	Pass	9	
HE40	MCS0	2	107	6485	Full	0.00	0.00	11.24	10.48	13.89	0.75		14.64	24.00	Pass	12	
HE80	MCS0	2	103	6465	Full	0.00	0.00	13.68	12.95	16.34	0.75		17.09	24.00	Pass	14	
HE160	MCS0	2	111	6505	Full	0.00	0.00	13.40	12.74	16.09	0.75		16.84	24.00	Pass	14	

U-NII-7 MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
						Ant 8	Ant 10	Ant 8	Ant 10	SUM	Ant 8	Ant 10				SUM	Ant 8
HE20	MCS0	2	117	6535	Full	0.00	0.00	7.22	6.44	9.86	1.02		10.88	24.00	Pass	7.5	
HE40	MCS0	2	123	6565	Full	0.00	0.00	10.02	9.22	12.65	1.02		13.67	24.00	Pass	10.5	
HE80	MCS0	2	135	6625	Full	0.00	0.00	13.35	12.51	15.96	1.02		16.98	24.00	Pass	14	
HE160	MCS0	2	175	6825	Full	0.00	0.00	13.29	13.55	16.43	1.02		17.45	24.00	Pass	14	

U-NII-8 MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
						Ant 8	Ant 10	Ant 8	Ant 10	SUM	Ant 8	Ant 10				SUM	Ant 8
HE20	MCS0	2	229	7095	Full	0.00	0.00	5.88	5.91	8.91	1.66		10.57	24.00	Pass	6.5	
HE40	MCS0	2	227	7085	Full	0.00	0.00	9.33	9.32	12.34	1.66		14.00	24.00	Pass	10	
HE80	MCS0	2	199	6945	Full	0.00	0.00	13.02	12.50	15.78	1.66		17.44	24.00	Pass	13.5	
HE160	MCS0	2	207	6985	Full	0.00	0.00	13.36	13.62	16.50	1.66		18.16	24.00	Pass	14	

<standard client >

<SISO mode>

U-NII-5 SISO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
					Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10			Ant 8	Ant 10
11a	6Mbps	1	049	6195	0.03	0.04	14.00	12.85	0.35	-0.85	14.35	12.00	30.00	Pass	14	



U-NII-5 SISO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
						Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10			Ant 8	Ant 10
HE20	MCS0	1	049	6195	Full	0.00	0.00	13.99	12.97	0.35	-0.85	14.34	12.12	30.00	Pass	14	14
HE40	MCS0	1	051	6205	Full	0.00	0.00	14.02	13.03	0.35	-0.85	14.37	12.18	30.00	Pass	14	14
HE80	MCS0	1	055	6225	Full	0.00	0.00	13.88	13.01	0.35	-0.85	14.23	12.16	30.00	Pass	14	14
HE160	MCS0	1	047	6185	Full	0.00	0.00	14.01	13.13	0.35	-0.85	14.36	12.28	30.00	Pass	14	14

U-NII-7 SISO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
					Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10			Ant 8	Ant 10
11a	6Mbps	1	181	6855	0.03	0.04	13.58	13.45	1.02	0.16	14.60	13.61	30.00	Pass	14	14

U-NII-7 SISO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
						Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10	Ant 8	Ant 10			Ant 8	Ant 10
HE20	MCS0	1	117	6535	Full	0.00	0.00	13.63	12.76	1.02	0.16	14.65	12.92	30.00	Pass	14	14
HE40	MCS0	1	123	6565	Full	0.00	0.00	13.57	12.76	1.02	0.16	14.59	12.92	30.00	Pass	14	14
HE80	MCS0	1	167	6785	Full	0.00	0.00	13.37	12.76	1.02	0.16	14.39	12.92	30.00	Pass	14	14
HE160	MCS0	1	143	6665	Full	0.00	0.00	13.37	12.91	1.02	0.16	14.39	13.07	30.00	Pass	14	14

<CDD mode>

U-NII-5 MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
					Ant 8	Ant 10	Ant 8	Ant 10	SUM	Ant 8	Ant 10	SUM			Ant 8	Ant 10
11a	6Mbps	2	049	6195	0.03	0.04	14.05	12.92	16.53	0.35		16.88	30.00	Pass	14	

U-NII-5 MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
						Ant 8	Ant 10	Ant 8	Ant 10	SUM	Ant 8	Ant 10	SUM			Ant 8	Ant 10
HE20	MCS0	2	049	6195	Full	0.00	0.00	14.02	13.00	16.55	0.35		16.90	30.00	Pass	14	
HE40	MCS0	2	051	6205	Full	0.00	0.00	14.06	13.07	16.60	0.35		16.95	30.00	Pass	14	
HE80	MCS0	2	055	6225	Full	0.00	0.00	13.92	13.05	16.52	0.35		16.87	30.00	Pass	14	
HE160	MCS0	2	047	6185	Full	0.00	0.00	14.06	13.17	16.65	0.35		17.00	30.00	Pass	14	



U-NII-7 MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
					Ant 8	Ant 10	Ant 8	Ant 10	SUM	Ant 8	Ant 10				SUM	Ant 8
11a	6Mbps	2	181	6855	0.03	0.04	13.63	13.60	16.62	1.02		17.64	30.00	Pass	14	

U-NII-7 MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
						Ant 8	Ant 10	Ant 8	Ant 10	SUM	Ant 8	Ant 10				SUM	Ant 8
HE20	MCS0	2	117	6535	Full	0.00	0.00	13.68	12.78	16.26	1.02		17.28	30.00	Pass	14	
HE40	MCS0	2	123	6565	Full	0.00	0.00	13.59	12.79	16.22	1.02		17.24	30.00	Pass	14	
HE80	MCS0	2	167	6785	Full	0.00	0.00	13.40	12.83	16.13	1.02		17.15	30.00	Pass	14	
HE160	MCS0	2	143	6665	Full	0.00	0.00	13.42	12.95	16.20	1.02		17.22	30.00	Pass	14	

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
EMI Test Receiver	Keysight	N9038A	MY56400023	3Hz~8.5GHz;Max 30dBm	Jan. 02, 2024	Nov. 05, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471084	10Hz~44GHz	Jul. 04, 2024	Nov. 05, 2024	Jul. 03, 2025	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Nov. 05, 2024	Sep. 07, 2025	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz~1GHz	Sep. 03, 2024	Nov. 05, 2024	Sep. 02, 2025	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 11, 2024	Nov. 05, 2024	Apr. 10, 2025	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 06, 2024	Nov. 05, 2024	Jan. 05, 2025	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	372171	9KHz ~1GHZ	Jan. 02, 2024	Nov. 05, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
Amplifier	EM	EM18G40GA	060728	18~40GHz	Jan. 02, 2024	Nov. 05, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2082395	1Ghz-18Ghz	Jan. 02, 2024	Nov. 05, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY57280119	500MHz~26.5GHz	Oct. 09, 2024	Nov. 05, 2024	Oct. 08, 2025	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 05, 2024	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 05, 2024	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 05, 2024	NCR	Radiation (03CH06-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Oct. 26, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Aug. 20, 2024	Oct. 26, 2024	Aug. 19, 2025	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Oct. 26, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000811	AC 0V~300V, 45Hz~1000Hz	Oct. 09, 2024	Oct. 26, 2024	Oct. 08, 2025	Conduction (CO01-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Nov. 07, 2024~Feb. 11, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Nov. 07, 2024~Feb. 11, 2025	Jan. 01, 2025	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2025	Nov. 07, 2024~Feb. 11, 2025	Jan. 01, 2026	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2024	Nov. 07, 2024~Feb. 11, 2025	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2025	Nov. 07, 2024~Feb. 11, 2025	Jan. 01, 2026	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Nov. 05, 2024	Oct. 09, 2025	CBP (DFS01-KS)
MXG-B RF Vector Signal Generator	Keysight	5182B /5182BX07	MY56200417 /MY59360210	9kHz~7.2GHz	Apr. 17, 2024	Nov. 05, 2024	Apr. 16, 2025	CBP (DFS01-KS)
Vector Signal Generator	R&S	SMBV100A	258305	9kHz~6GHz	Jan. 02, 2024	Nov. 05, 2024	Jan. 01, 2025	CBP (DFS01-KS)
Combiner	MTJ Cooperation	MTJ7112	N/A	0.4-6GHz	NCR	Nov. 05, 2024	NCR	CBP (DFS01-KS)
Signal Analyzer	R&S	FSV7	101632	10Hz~7GHz	Jan. 02, 2024	Nov. 05, 2024	Jan. 01, 2025	Conducted (DFS01-KS)
Vector Signal Generator	R&S	SMJ100A	101908	100kHz~6GHz	Jan. 02, 2024	Nov. 05, 2024	Jan. 01, 2025	Conducted (DFS01-KS)



MXG-B RF Vector Signal Genertor	Keysight	5182B /5182BX07	MY562004 17 /MY59360 210	9kHz~7.2GHz	Apr 17, 2024	Nov. 05, 2024	Apr 16, 2025	Conducted (DFS01-KS)
Combiner	MTJ Cooperation	MTJ7114-M	N/A	0.5GHz~18GHz	NCR	Nov. 05, 2024	NCR	Conducted (DFS01-KS)

NCR: No Calibration Required

For NFC:

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Ma x 30dBm	Oct. 11, 2024	Oct. 24, 2024	Oct. 10, 2025	Radiation (03CH02-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Oct. 24, 2024	Sep. 07, 2025	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	59915	30MHz~1GHz	Aug. 18, 2024	Oct. 24, 2024	Aug. 17, 2025	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002 473	N/A	NCR	Oct. 24, 2024	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Oct. 24, 2024	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Oct. 24, 2024	NCR	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	413740	9KHz~1GHz	Jan. 03, 2024	Oct. 24, 2024	Jan. 02, 2025	Radiation (03CH02-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Oct. 26, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Aug. 20, 2024	Oct. 26, 2024	Aug. 19, 2025	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Oct. 26, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 09, 2024	Oct. 26, 2024	Oct. 08, 2025	Conduction (CO01-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Nov. 07, 2024	Oct. 09, 2025	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Nov. 07, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2024	Nov. 07, 2024	Jan. 01, 2025	Conducted (TH01-KS)

NCR: No Calibration Required



For WWAN Bands:

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Nov. 02, 2024	Oct. 09, 2025	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Nov. 02, 2024	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Nov. 02, 2024	Jul. 03, 2025	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz~44G, MAX 30dB	Oct. 11, 2024	Oct. 20, 2024	Oct. 10, 2025	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 10, 2024	Oct. 20, 2024	Sep. 09, 2025	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz~1GHz	Dec. 06, 2023	Oct. 20, 2024	Dec. 05, 2024	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227860	1GHz~18GHz	Aug. 16, 2024	Oct. 20, 2024	Aug. 15, 2025	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 27, 2024	Oct. 20, 2024	Jan. 26, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	413740	9KHz~1GHz	Jan. 03, 2024	Oct. 20, 2024	Jan. 02, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM18G40G A	060728	18~40GHz	Jan. 02, 2024	Oct. 20, 2024	Jan. 01, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz~18Ghz	Oct. 09, 2024	Oct. 20, 2024	Oct. 08, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM01G18G A	060892	1Ghz~18Ghz	Oct. 09, 2024	Oct. 20, 2024	Oct. 08, 2025	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Oct. 20, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Oct. 20, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Oct. 20, 2024	NCR	Radiation (03CH04-KS)
Signal Analyzer	R&S	FSV7	101472	10Hz~7GHz	Jan. 05, 2024	Nov. 12, 2024	Jan. 04, 2025	Conducted (DFS01-KS)
Combiner	MTJ Cooperation	MTJ7112	N/A	0.4-6GHz	NCR	Nov. 12, 2024	NCR	Conducted (DFS01-KS)

NCR: No Calibration Required

4 Measurement Uncertainty

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

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

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Conducted Power Spectral Density	±0.90 dB
Frequency	±0.04 ppm

Uncertainty of Conducted Measurement(WIFI 6G)

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Conducted Power Spectral Density	±0.90 dB
Frequency	0.04ppm
Conducted Generated signal Levels	±0.56 dB
Conducted Time	0.54%

Uncertainty of Conducted Measurement(NFC)

Test Item	Uncertainty
Occupied Channel Bandwidth	±0.1%
Frequency	0.04ppm

Uncertainty of Conducted Measurement (DFS)

Test Item	Uncertainty
Conducted Generated signal Levels	±0.56 dB
Conducted Time	0.38%

Uncertainty of Conducted Measurement (WWAN)

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 2.22 dB
Occupied Channel Bandwidth	$\pm 0.1\%$
Conducted Power	± 0.50 dB
Peak to Average Ratio	± 0.46 dB
Frequency Stability	± 0.04 ppm

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

03CH06-KS(BT/WIF):

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.08dB
---	--------

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.22dB
---	--------

03CH02-KS(NFC):

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

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

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



03CH04-KS(WWAN):

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.83 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

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

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

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



Appendix B. Reference Report

FCC RF Test Report

FCC ID : UZ7EM45A2
EQUIPMENT : Enterprise Mobile
BRAND NAME : Zebra
MODEL NAME : EM45A2
APPLICANT : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
MANUFACTURER : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
STANDARD : 47 CFR Part 2, Part 27 Subpart Q
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
Test Date(s) : Jun. 19, 2024 ~ Jul. 06, 2024

We, Sporton International Inc. (KunShan), 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. (KunShan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**

TABLE OF CONTENTS

REVISION HISTORY.....	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Product Specification of Equipment Under Test.....	6
1.3 Modification of EUT	6
1.4 Maximum EIRP Power and Emission Designator	7
1.5 Testing Site.....	9
1.6 Test Software.....	9
1.7 Applied Standards	10
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	11
2.1 Test Mode.....	11
2.2 Connection Diagram of Test System.....	12
2.3 Support Unit used in test configuration and system	12
2.4 Measurement Results Explanation Example.....	12
2.5 Frequency List of Low/Middle/High Channels	13
3 CONDUCTED TEST ITEMS	14
3.1 Measuring Instruments	14
3.2 Test Setup	14
3.3 Test Result of Conducted Test	14
3.4 Conducted Output Power Measurement	15
3.5 Peak-to-Average Ratio	16
3.6 EIRP	17
3.7 Occupied Bandwidth.....	18
3.8 Conducted Band Edge Measurement	19
3.9 Conducted Spurious Emission Measurement	20
3.10 Frequency Stability Measurement.....	21
4 RADIATED TEST ITEMS	22
4.1 Measuring Instruments	22
4.2 Test Setup	22
4.3 Test Result of Radiated Test	23
4.4 Radiated Spurious Emission Measurement	24
5 LIST OF MEASURING EQUIPMENT	25
6 UNCERTAINTY OF EVALUATION.....	26
APPENDIX A. TEST RESULTS OF CONDUCTED TEST	
APPENDIX B. TEST RESULTS OF RADIATED TEST	
APPENDIX C. TEST SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG460505S	Rev. 01	Initial issue of report	Sep. 05, 2024

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	Report Only	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	Report Only	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 35.68 dB at 13800.00 MHz

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/manufacturer 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 Product Feature of Equipment Under Test

Product Feature	
Equipment	Enterprise Mobile
Brand Name	Zebra
Model Name	EM45A2
FCC ID	UZ7EM45A2
IMEI Code	Conducted: 352991990028965/352991990029377 Radiation: 352991990029096/352991990029708
HW Version	EV2.5
SW Version	13-32-08.00-TG-U06-STD-ATH-04
MFD	08AUG24
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.

Specification of Accessory				
Battery	Brand Name	Zebra	Model	BT-000501
			Part Number	BT-000501-2000

Supported Unit used in test configuration and system				
AC Adapter 1 (Type C Wall Charger 1)	Brand Name	Zebra	Model	SAWA-102-22520A
			Part Number	PWR-WUA5V45W1US
AC Adapter 2 (Type A Wall Charger 2)	Brand Name	Zebra	Model	SAWA-65-20005A
			Part Number	PWR-WUA5V12W0US
Earphone 1 (Wired headset USB-C)	Brand Name	Zebra	Part Number	HDST-USBC-PTT1-01
Earphone 2 (Rugged Bluetooth Headset)	Brand Name	Zebra	Part Number	HS3100-OTH
Earphone 3 (3.5mm PTT Headset)	Brand Name	Zebra	Part Number	HDST-35MM-PTT1-02
Earphone 4 (Rugged Headset)	Brand Name	Zebra	Part Number	HS2100-OTH
3.5mm to 3.5mm audio connector	Brand Name	Zebra	Part Number	CBL-HS2100-3MS1-01
Type C-Audio Cable (Type C to 3.5mm)	Brand Name	Zebra	Part Number	ADP-USBC-35MM1-01
USB Cable 1 (USB-C to C Cable)	Brand Name	Zebra	Part Number	CBL-EC5X-USBC3A-01
USB Cable 2 (USB-A to C Cable)	Brand Name	Zebra	Part Number	CBL-TC5X-USBC2A-01
EM45 Protective Case	Brand Name	Zebra	Part Number	SG-EM45EXO1-01

1.2 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	5G NR n77: 3450 MHz ~ 3550 MHz 5G NR n78: 3450 MHz ~ 3550 MHz
SCS	30kHz
Bandwidth	20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100MHz
Antenna Gain	5G NR n77: <Ant. 2>: -1.13 dBi <Ant. 3>: 0.50 dBi <Ant. 4>: -0.56 dBi <Ant. 6>: -0.46 dBi 5G NR n78: <Ant. 2>: -1.13 dBi <Ant. 3>: 0.50 dBi <Ant. 4>: -0.56 dBi <Ant. 6>: -0.46 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. The maximum EIRP is calculated from max output power and max antenna gain, only the EIRP is shown in the report, 5G NR n77/n78 for Antenna 4 and UL MIMO for Ant.(4+6).
2. The device supports n77/n78(1T4R) SRS resources on Ant.2/3/4/6, only the test data of worst Ant.4 is showed in the report according to the maximum power.
3. 5G NR n77 & n78 supports PC2.
4. 5G NR nn77/n78 UL MIMO mode only supports CP-OFDM Modulation, and the UL MIMO mode is completely uncorrelated, the directional gain is selected the maximum gain among the MIMO antennas.
5. For n77/n78 UL MIMO mode, the conducted BE/Spurious are tested at single antenna port and add $10 \cdot \log(N_{\text{ANT}})$ according to KDB 662911 D01.
6. 5G NR n77/n78 support SA and NSA mode. The whole testing has assessed NSA mode by referring to the higher conducted power for conducted test items.
7. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
8. The EN-DC mode combination could be referred to the product spec
9. For NSA mode of RSE testing, we only choose the combination of the maximum power among all NSA combinations to test.

1.3 Modification of EUT

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

1.4 Maximum EIRP Power and Emission Designator

ENDC_2A_n77A		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)
20	3460.02 ~ 3540.00	0.3350	18M2G7D	0.2858	18M2W7D
30	3465.00 ~ 3534.99	0.3451	27M8G7D	0.2917	27M8W7D
40	3470.01 ~ 3529.98	0.3467	37M9G7D	0.2924	37M9W7D
50	3475.02 ~ 3525.00	0.3334	47M3G7D	0.2818	47M5W7D
60	3480.00 ~ 3519.99	0.3281	57M9G7D	0.2735	57M8W7D
70	3485.01 ~ 3514.98	0.3162	67M6G7D	0.2685	67M5W7D
80	3490.02 ~ 3510.00	0.3162	77M3G7D	0.2704	77M5W7D
90	3495.00 ~ 3504.99	0.3155	87M4G7D	0.2698	87M6W7D
100	3500.01	0.3491	97M5G7D	0.2564	97M5W7D

5G NR n77 UL MIMO		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	3460.02 ~ 3540.00	0.2350	18M2G7D	0.2028	18M2W7D
30	3465.00 ~ 3534.99	0.2404	27M9G7D	0.2128	27M9W7D
40	3470.01 ~ 3529.98	0.2472	37M8G7D	0.2163	37M9W7D
50	3475.02 ~ 3525.00	0.2296	47M4G7D	0.2065	47M6W7D
60	3480.00 ~ 3519.99	0.2323	57M9G7D	0.2061	57M8W7D
70	3485.01 ~ 3514.98	0.2286	67M5G7D	0.1986	67M6W7D
80	3490.02 ~ 3510.00	0.2259	77M6G7D	0.1972	77M6W7D
90	3495.00 ~ 3504.99	0.2259	87M6G7D	0.2000	87M5W7D
100	3500.01	0.2506	97M4G7D	0.2244	97M7W7D

ENDC_2A_n78A		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)
20	3460.02 ~ 3540.00	0.3170	18M2G7D	0.2704	18M2W7D
30	3465.00 ~ 3534.99	0.3296	27M8G7D	0.2735	27M8W7D
40	3470.01 ~ 3529.98	0.3342	37M9G7D	0.2799	37M9W7D
50	3475.02 ~ 3525.00	0.3041	47M3G7D	0.2588	47M5W7D
60	3480.00 ~ 3519.99	0.3126	57M9G7D	0.2642	57M8W7D
70	3485.01 ~ 3514.98	0.3013	67M6G7D	0.2553	67M5W7D
80	3490.02 ~ 3510.00	0.3027	77M3G7D	0.2512	77M5W7D
90	3495.00 ~ 3504.99	0.2979	87M4G7D	0.2483	87M6W7D
100	3500.01	0.3350	97M5G7D	0.2449	97M5W7D

5G NR n78 UL MIMO		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)
20	3460.02 ~ 3540.00	0.2234	18M2G7D	0.2004	18M2W7D
30	3465.00 ~ 3534.99	0.2270	27M9G7D	0.1995	27M9W7D
40	3470.01 ~ 3529.98	0.2312	37M8G7D	0.2046	37M9W7D
50	3475.02 ~ 3525.00	0.2163	47M4G7D	0.1932	47M6W7D
60	3480.00 ~ 3519.99	0.2183	57M9G7D	0.1950	57M8W7D
70	3485.01 ~ 3514.98	0.2128	67M5G7D	0.1875	67M6W7D
80	3490.02 ~ 3510.00	0.2128	77M6G7D	0.1871	77M6W7D
90	3495.00 ~ 3504.99	0.2118	87M6G7D	0.1849	87M5W7D
100	3500.01	0.2317	97M4G7D	0.2032	97M7W7D

Note:

1. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.
2. 5G NR Band n77 overlaps the entire frequency range of Band n78, and n77 power > n78 power, therefore the conducted test results of n77 provided in this report cover n78.

1.5 Testing Site

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

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

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

Note: Test data subcontracted: Conducted test cases in section 3.3~3.10 of this report.

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24al

1.7 Applied Standards

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

- ♦ 47 CFR Part 2, Part 27 Subpart Q
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

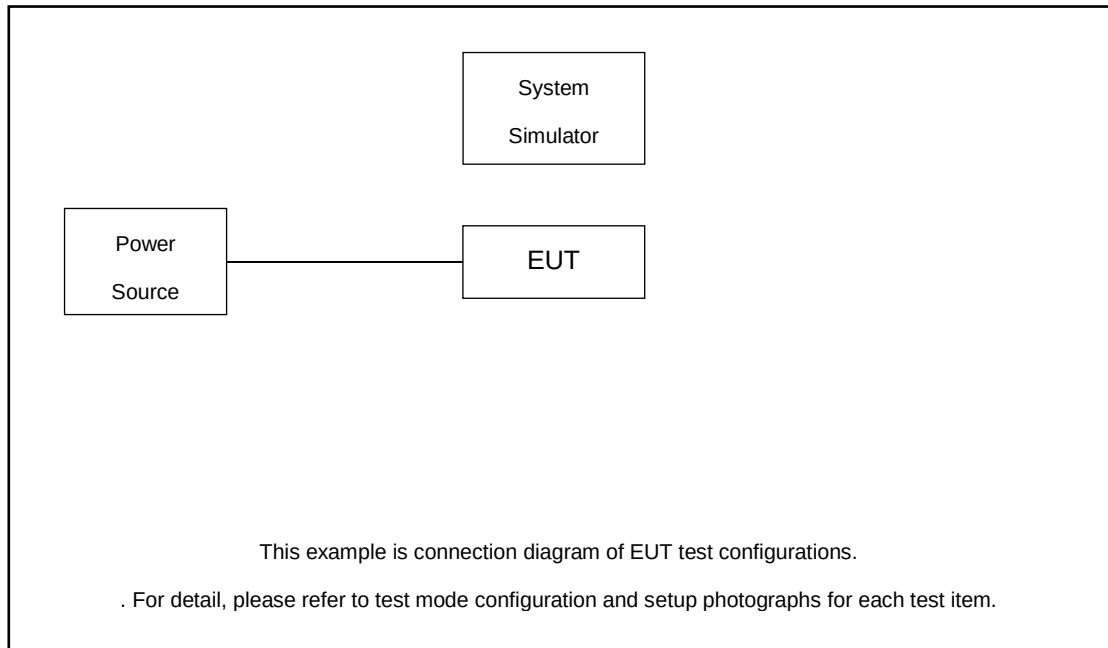
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (X-Plane)

Test Cases	Band	Bandwidth (MHz)	Modulation	RB #	Test Channel
		eg. 5M, 10M, 15M, 20M	eg. PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L/M/H
Max. Output Power	5G n77/n78	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	All Modulations	1RB, Full RB	L, M, H
Peak-to-Average Ratio	5G n77	20M	PI/2 BPSK, QPSK	1RB, Full RB	M
E.I.R.P	5G n77	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	All Modulations	1RB	L, M, H
26dB and 99% Bandwidth	5G n77	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
Conducted Band Edge	5G n77	20M, 60M, 100M	PI/2 BPSK, QPSK	1RB, Full RB	L, H
Conducted Spurious Emission	5G n77	20M, 60M, 100M	PI/2 BPSK, QPSK	1RB	L, M, H
Frequency Stability	5G n77	20M	QPSK	Full RB	M
Radiated Spurious Emission	5G n77/n78	Worst case from maximum power			M

Note:

1. 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.
2. Frequency Stability: Normal Voltage: 3.85Vdc, Extreme Voltage: 3.50Vdc ~4.41Vdc.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	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 8.9 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 8.9 \text{ (dB)} \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

5G n77/n78 Channel and Frequency List for SCS 30kHz				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465	3500.01	3534.99
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540

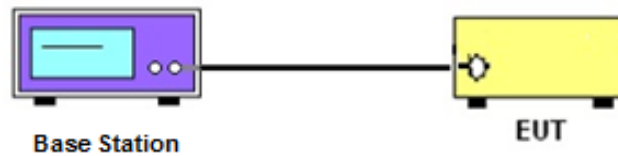
3 Conducted Test Items

3.1 Measuring Instruments

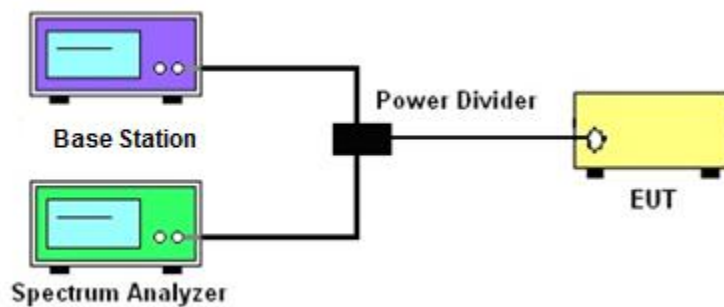
See list of measuring instruments of this test report.

3.2 Test Setup

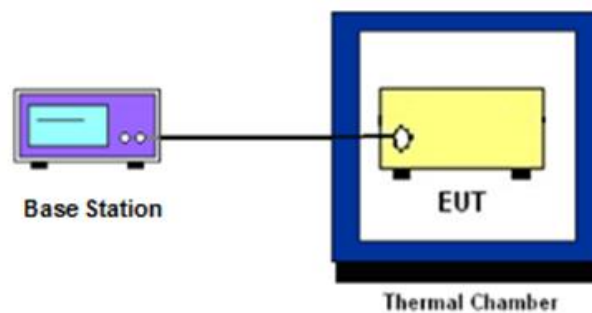
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth, 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 Measurement

3.4.1 Description of the Conducted Output Power Measurement

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

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 EIRP

3.6.1 Description of EIRP Limit

§ 27.50 (k)(3)

Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

3.6.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2. $EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, 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

3.7 Occupied Bandwidth

3.7.1 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.

3.7.2 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.

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

§ 27.53 (n)(2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz 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, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

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 band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ EBW but limited to a maximum of 200 kHz in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz and 5 MHz removed from the band edge, set RBW ≥ 500 KHz.
6. Beyond the 5 MHz removed from the band edge, set RBW = 1MHz.
7. Set spectrum analyzer with RMS detector.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges shall not exceed -13 dBm/MHz.

It is measured by means of a calibrated spectrum analyzer and scanned from 9 kHz up to a frequency including its 10th harmonic.

3.9.2 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. Checked that all the results comply with the emission limit line.

3.10 Frequency Stability Measurement

3.10.1 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.

3.10.2 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.

3.10.3 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±5°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.

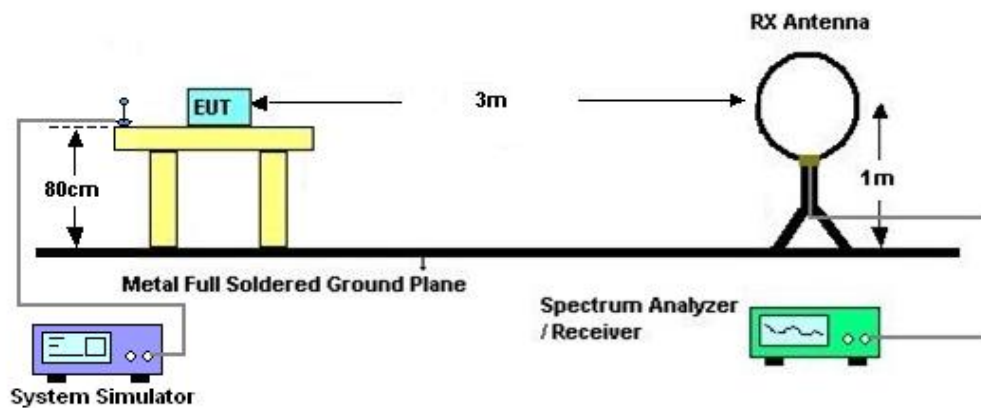
4 Radiated Test Items

4.1 Measuring Instruments

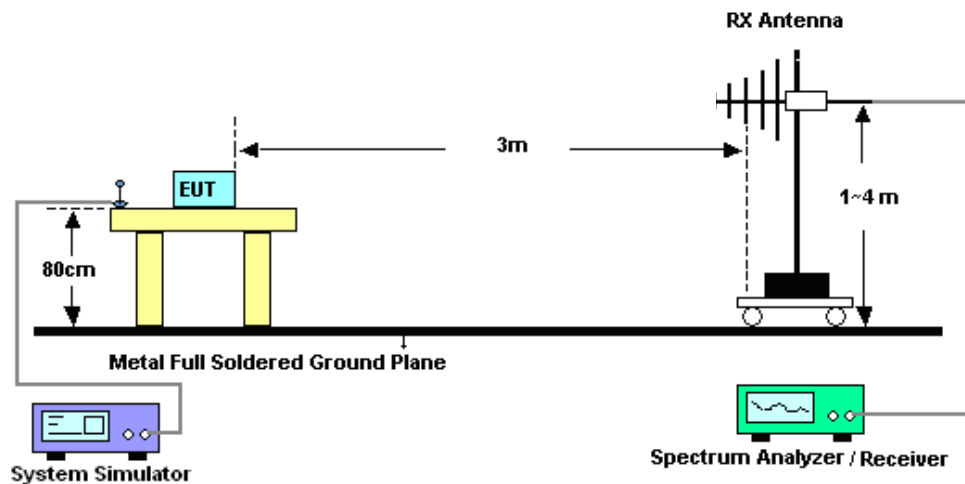
See list of measuring instruments of this test report.

4.2 Test Setup

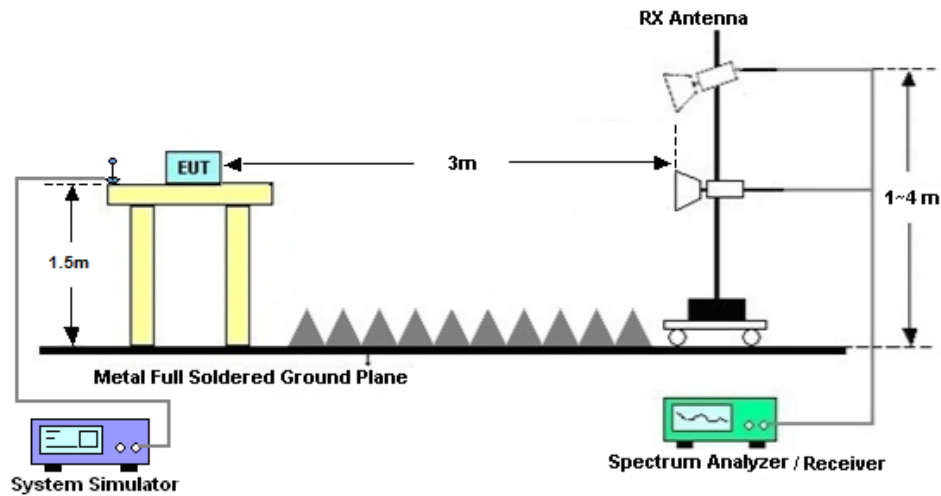
4.2.1 For radiated test below 30MHz



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 Measurement

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission outside of the authorized operating frequency ranges shall not exceed -13 dBm/MHz.

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.
$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$
$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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	Jun. 19, 2024~ Jul. 06, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 16, 2023	Jun. 19, 2024~ Jul. 06, 2024	Oct. 15, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2023	Jun. 19, 2024~ Jul. 06, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 04, 2024	Jul. 05, 2024	Jul. 03, 2025	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 11, 2023	Jul. 05, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11 2023	Jul. 05, 2024	Sep. 10, 2024	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz-1GHz	Aug. 19, 2023	Jul. 05, 2024	Aug. 18, 2024	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 23, 2023	Jul. 05, 2024	Oct. 22, 2024	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 27, 2024	Jul. 05, 2024	Jan. 26, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	413740	9KHz-1GHz	Jan. 03, 2024	Jul. 05, 2024	Jan. 02, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM18G40G A	060728	18~40GHz	Jan. 02, 2024	Jul. 05, 2024	Jan. 01, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 11, 2023	Jul. 05, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
Amplifier	EM	EM01G18G A	060892	1Ghz-18Ghz	Oct. 11, 2023	Jul. 05, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jul. 05, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jul. 05, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jul. 05, 2024	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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
Conducted Power Density	± 1.32 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))	2.83 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))	2.83 dB
---	---------

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

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



Appendix A. Test Results of Conducted Test

Test Engineer :	Khan	Temperature :	22~23°C
		Relative Humidity :	40~42%



Software Version: 23.06.1602

FR1 N77 SISO (Ant4)

LTE Band: 2, LTE BW: 10M, LTE ARFCN: Mid

Transmitter Conducted Output Power And EIRP, ($G_T - L_c$)=-0.56dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	25.76	25.2	0.3311
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	25	24.44	0.2780
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.76	25.2	0.3311
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.12	24.56	0.2858
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	25.81	25.25	0.3350
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	25.09	24.53	0.2838
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	25.72	25.16	0.3281
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	25.09	24.53	0.2838
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.94	25.38	0.3451
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.17	24.61	0.2891
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	25.9	25.34	0.3420
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	25.21	24.65	0.2917
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	25.86	25.3	0.3388
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	25.09	24.53	0.2838
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.94	25.38	0.3451
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.19	24.63	0.2904
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	25.96	25.4	0.3467
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	25.22	24.66	0.2924
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	25.55	24.99	0.3155
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	24.8	24.24	0.2655
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.78	25.22	0.3327
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.05	24.49	0.2812
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	25.79	25.23	0.3334
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	25.06	24.5	0.2818
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	25.51	24.95	0.3126
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	24.74	24.18	0.2618
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.72	25.16	0.3281
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.93	24.37	0.2735
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	25.7	25.14	0.3266
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	24.84	24.28	0.2679
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	25.4	24.84	0.3048
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	24.61	24.05	0.2541



77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.55	24.99	0.3155
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.85	24.29	0.2685
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	25.56	25	0.3162
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	24.83	24.27	0.2673
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	25.37	24.81	0.3027
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	24.53	23.97	0.2495
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.52	24.96	0.3133
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.71	24.15	0.2600
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	25.56	25	0.3162
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	24.88	24.32	0.2704
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	25.39	24.83	0.3041
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	24.65	24.09	0.2564
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.49	24.93	0.3112
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.64	24.08	0.2559
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	25.55	24.99	0.3155
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	24.87	24.31	0.2698
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	25.99	25.43	0.3491
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.52	24.96	0.3133
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	25.43	24.87	0.3069
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	25.52	24.96	0.3133
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.45	24.89	0.3083
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	25.35	24.79	0.3013
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	24.6	24.04	0.2535
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.65	24.09	0.2564
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	24.57	24.01	0.2518
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	23.07	22.51	0.1782
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.3	22.74	0.1879
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	23.02	22.46	0.1762
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	21.15	20.59	0.1146
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.86	20.3	0.1072
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	20.91	20.35	0.1084
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	24.03	23.47	0.2223
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	24.05	23.49	0.2234
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	23.84	23.28	0.2128



Frequency Stability

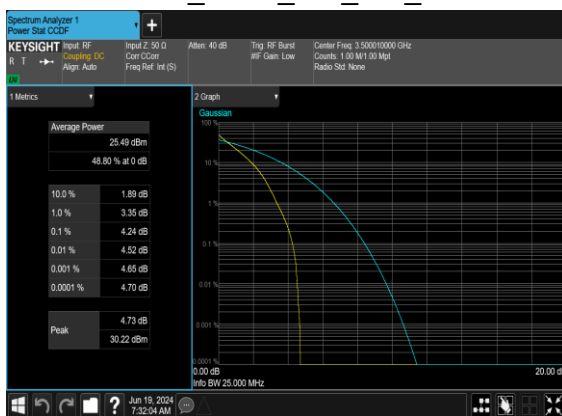
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0021	PASS	NV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0029	PASS	LV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0062	PASS	HV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0048	PASS	-30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0024	PASS	-20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0030	PASS	-10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0034	PASS	0℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0063	PASS	10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0021	PASS	20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0033	PASS	30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0029	PASS	40℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0052	PASS	50℃



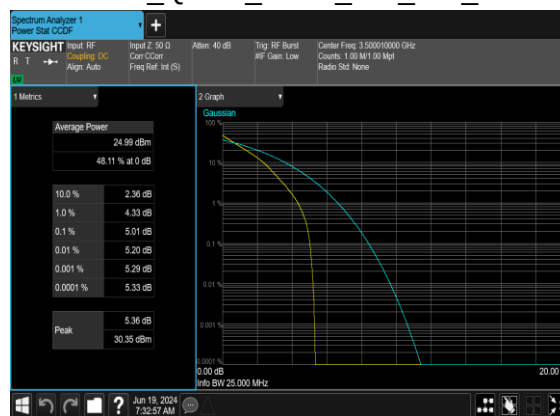
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	4.24	13	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	5.01	13	PASS

B2_N77(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



B2_N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



**Occupied Bandwidth**

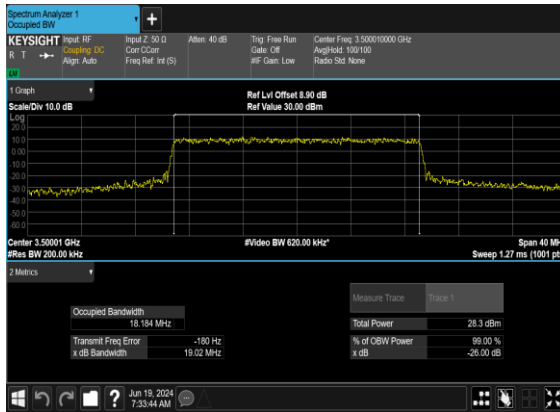
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.184	19.02
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.202	19.05
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.229	19.13
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.232	19.53
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.782	28.93
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.788	28.96
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.828	28.93
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.818	29.13
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.866	39.04
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.814	39.07
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.902	39.42
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.82	39.17
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.343	49.18
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.427	49.12
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.546	49.18
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.335	48.99
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.852	59.88
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.776	59.73
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.816	59.62
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.839	59.73
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.559	69.71
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.409	69.76
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.534	69.76



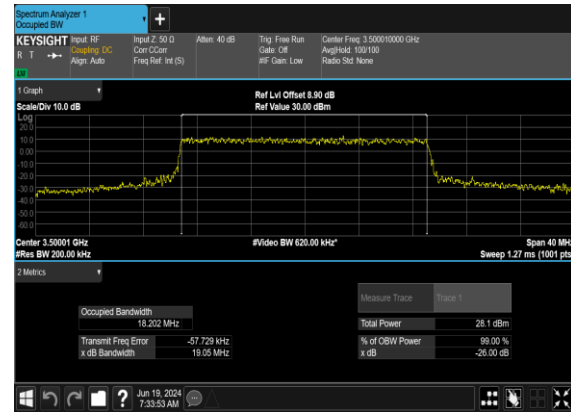
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.373	69.65
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.263	79.96
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.411	80.0
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.306	79.83
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.46	80.01
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.357	90.24
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.366	90.16
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.585	90.2
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.409	90.2
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.463	100.5
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.543	100.6
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.27	100.5
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.388	100.4



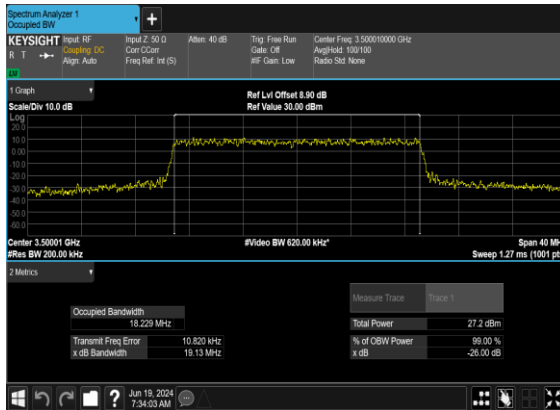
B2_N77(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



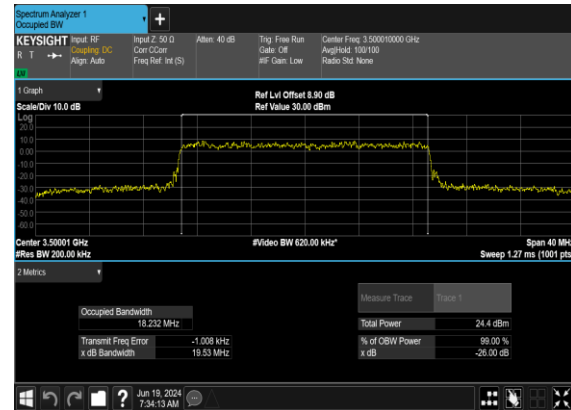
B2_N77(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B2_N77(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

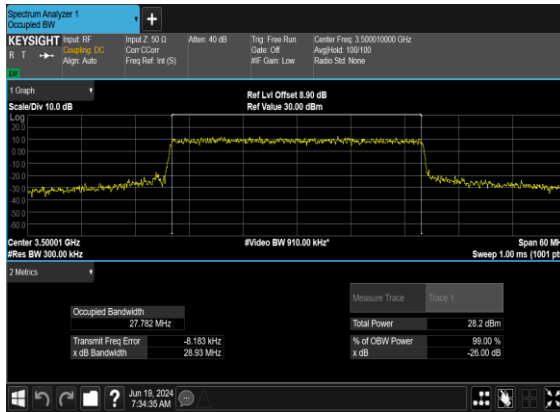


B2_N77(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

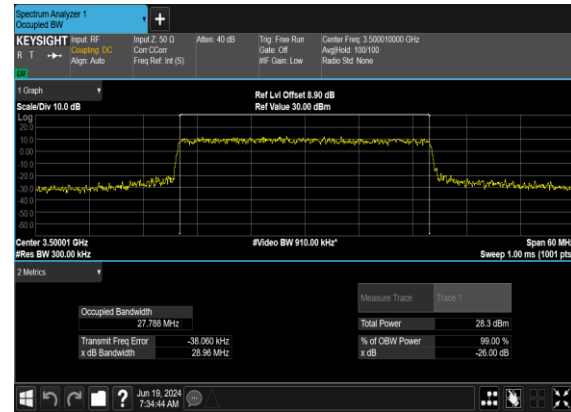




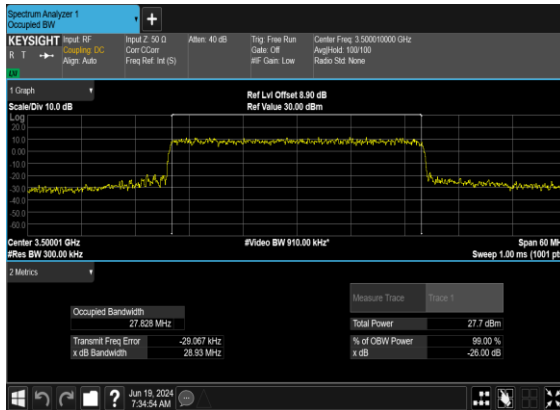
B2_N77(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



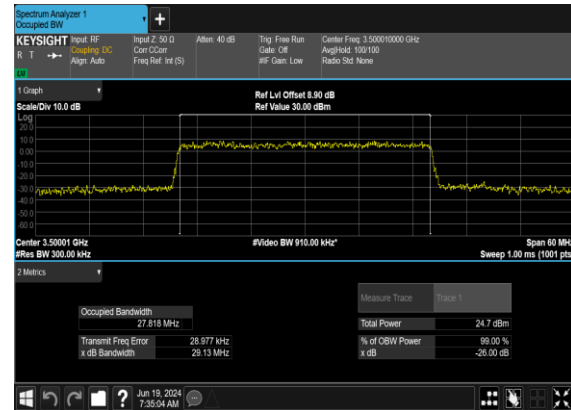
B2_N77(30M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B2_N77(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

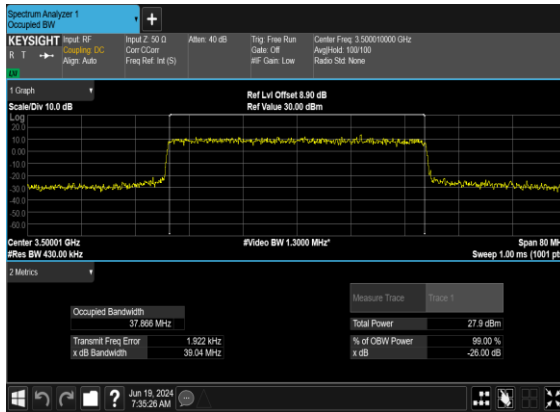


B2_N77(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

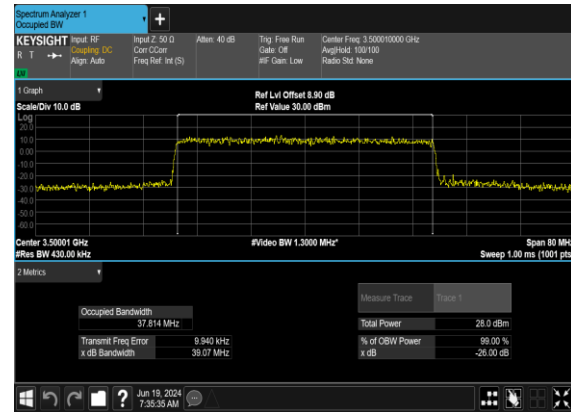




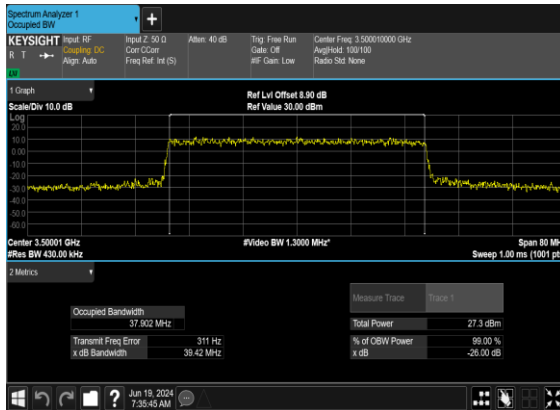
B2_N77(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



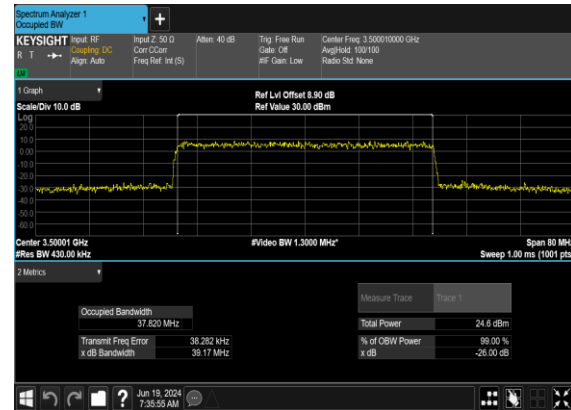
B2_N77(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B2_N77(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

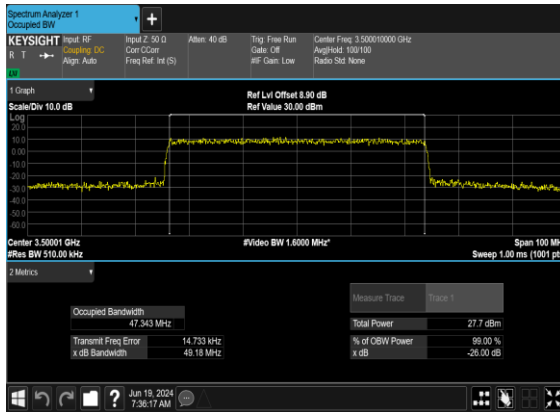


B2_N77(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

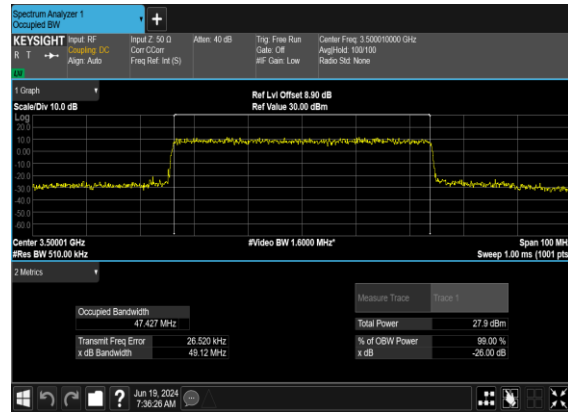




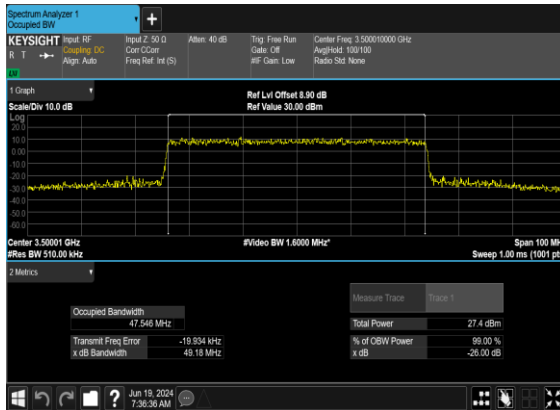
B2_N77(50M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



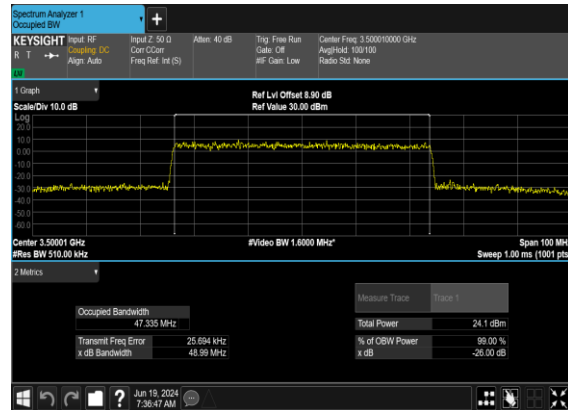
B2_N77(50M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B2_N77(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

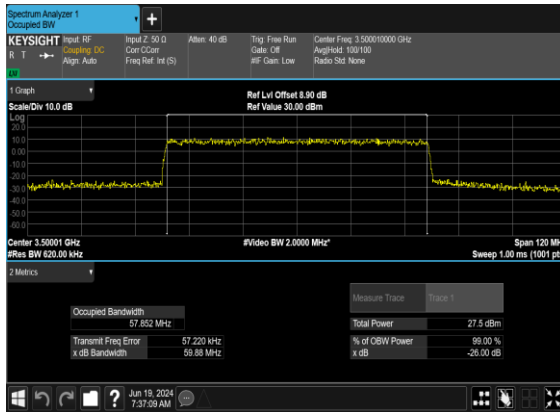


B2_N77(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

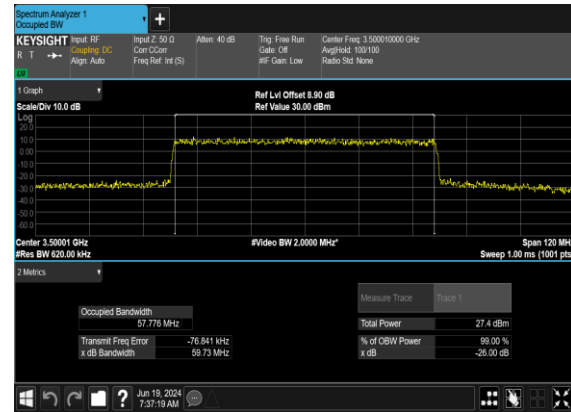




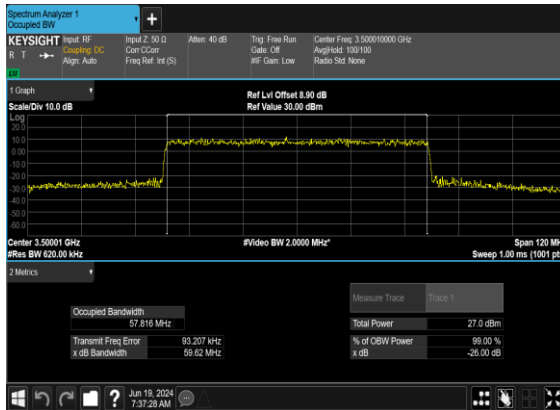
B2_N77(60M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



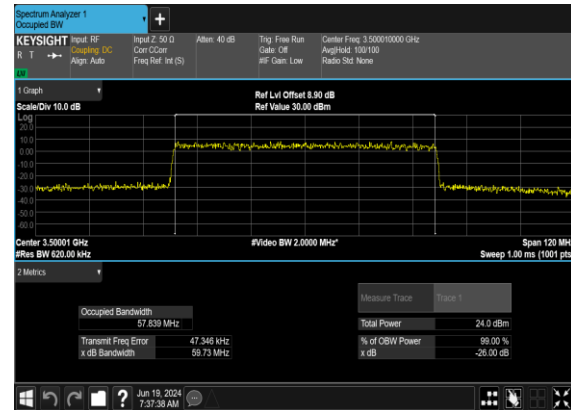
B2_N77(60M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B2_N77(60M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

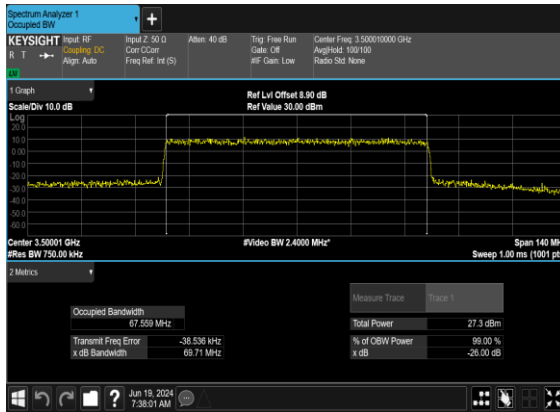


B2_N77(60M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

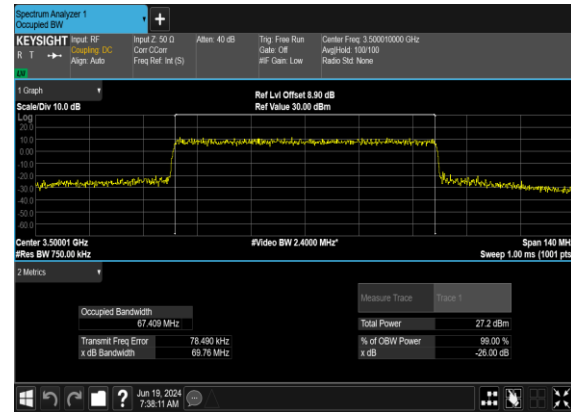




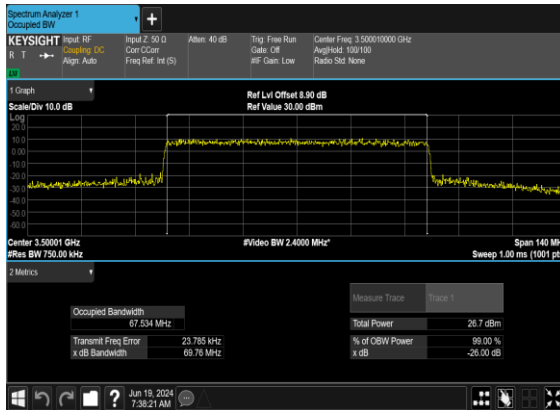
B2_N77(70M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



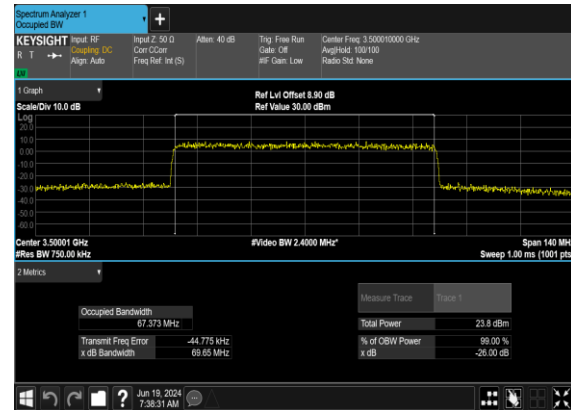
B2_N77(70M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B2_N77(70M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

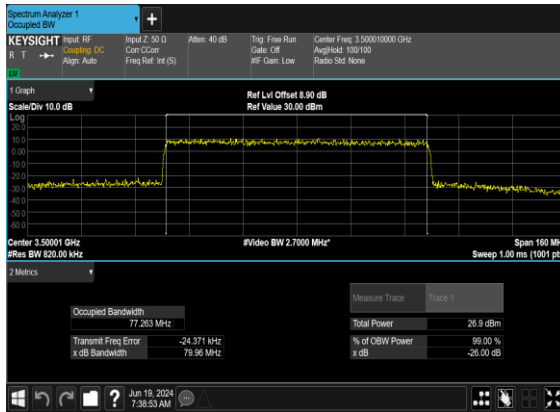


B2_N77(70M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

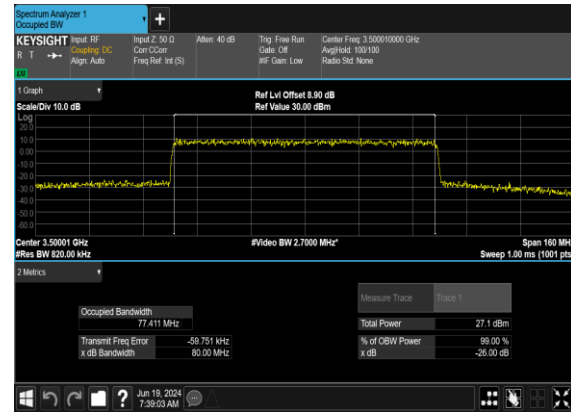




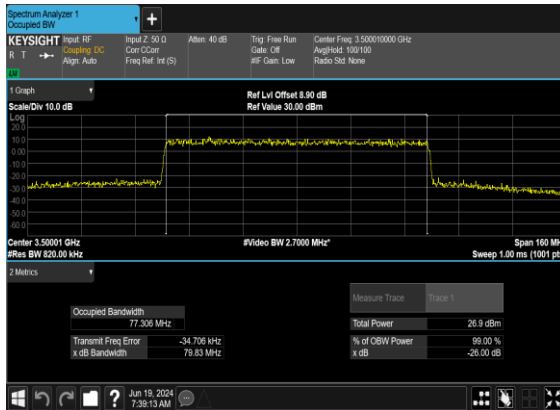
B2_N77(80M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



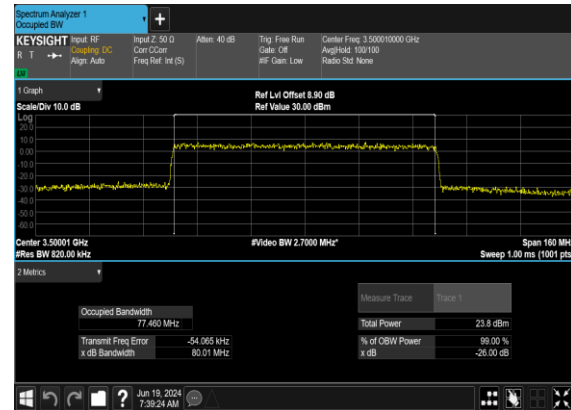
B2_N77(80M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B2_N77(80M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

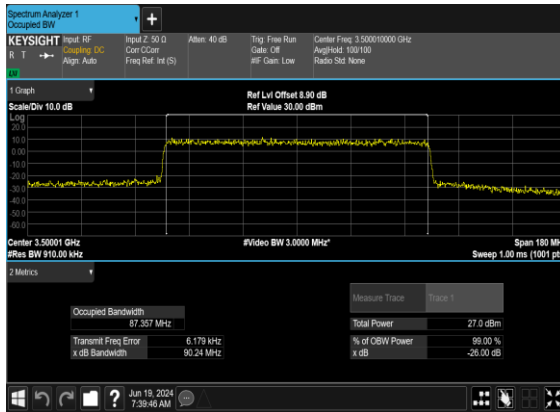


B2_N77(80M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

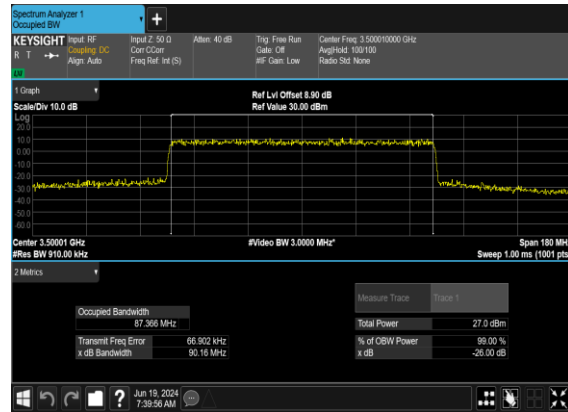




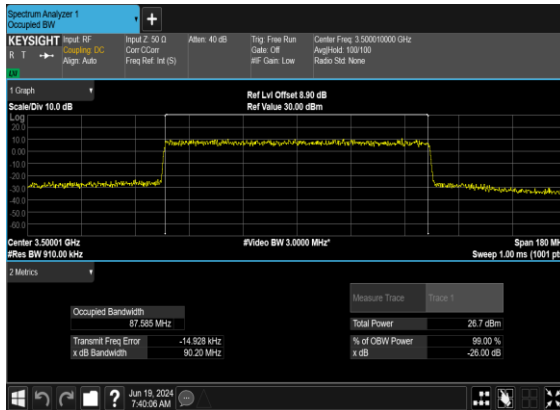
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OFDM_QPSK_Outer_Full_Mid_CH



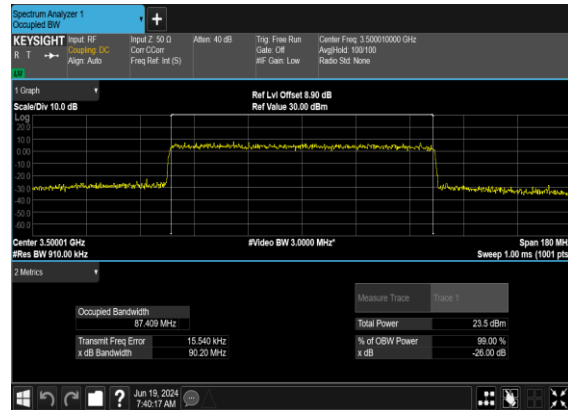
B2_N77(90M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B2_N77(90M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

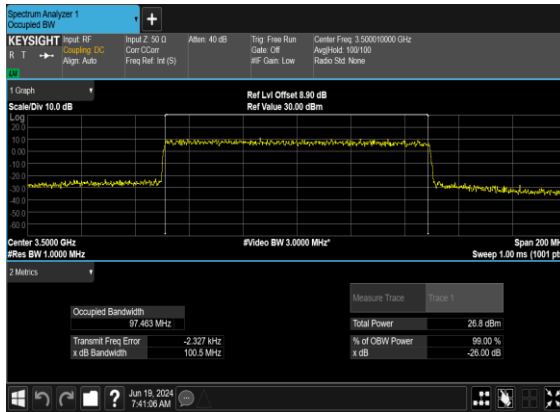


B2_N77(90M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

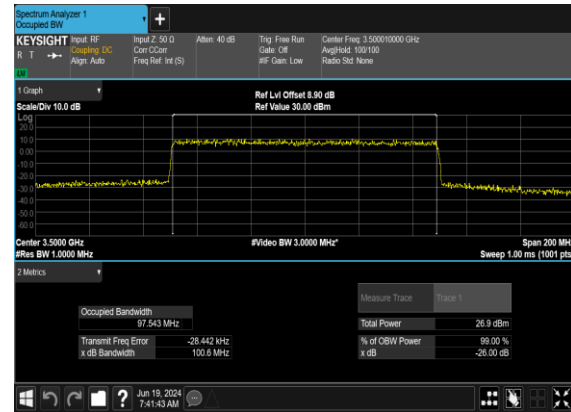




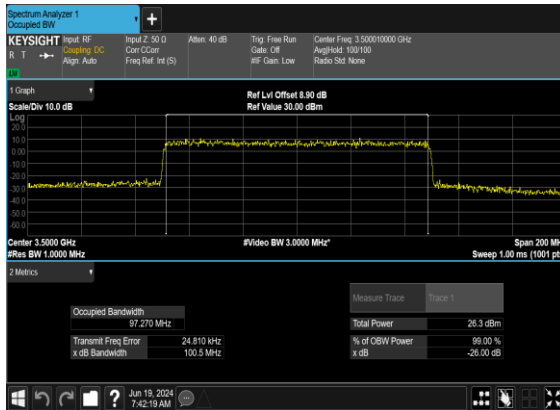
B2_N77(100M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



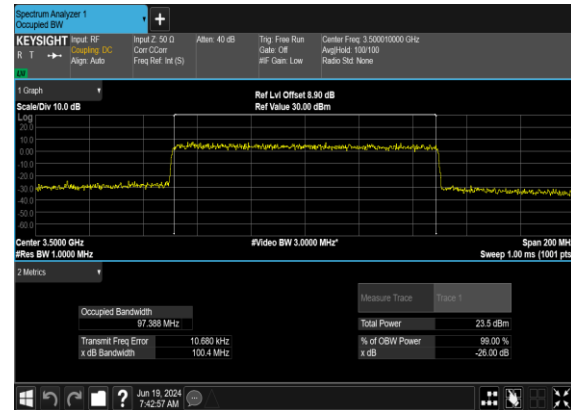
B2_N77(100M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B2_N77(100M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



B2_N77(100M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



**Conducted Spurious Emissions**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	PASS



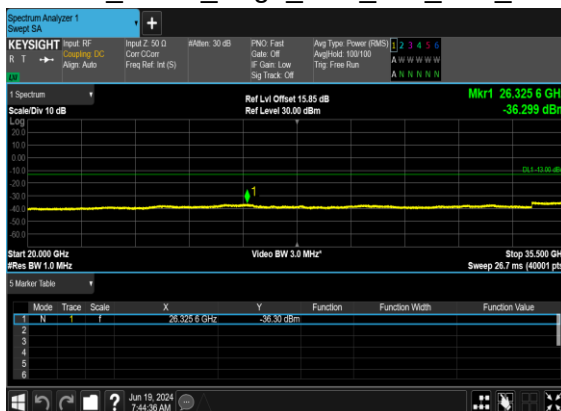
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS



B2_N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



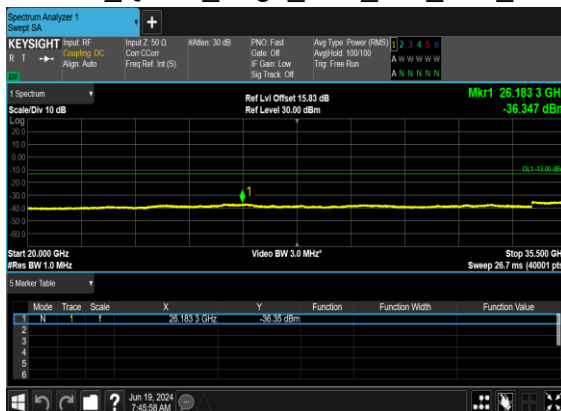
B2_N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



B2_N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

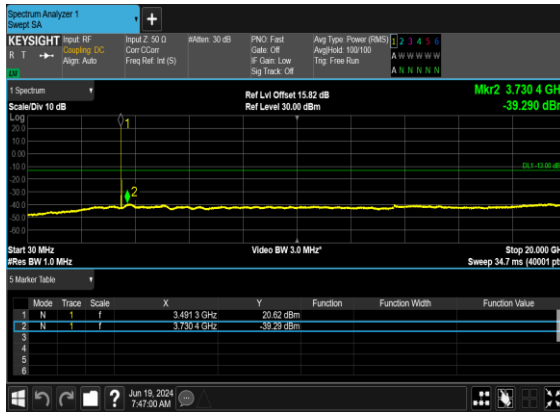


B2_N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

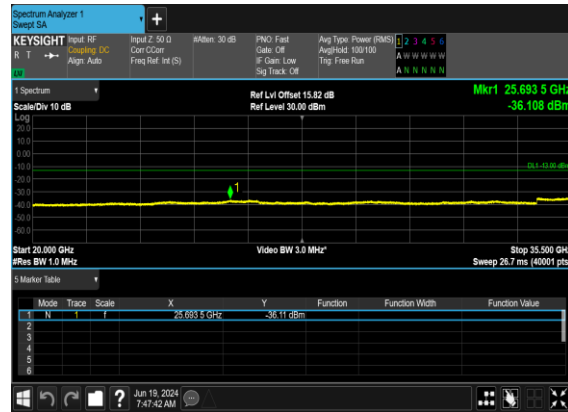




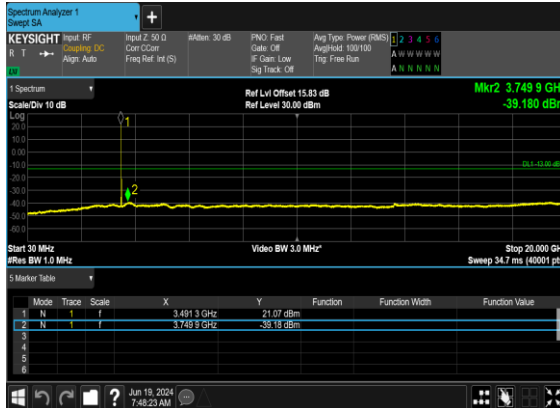
B2_N77(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



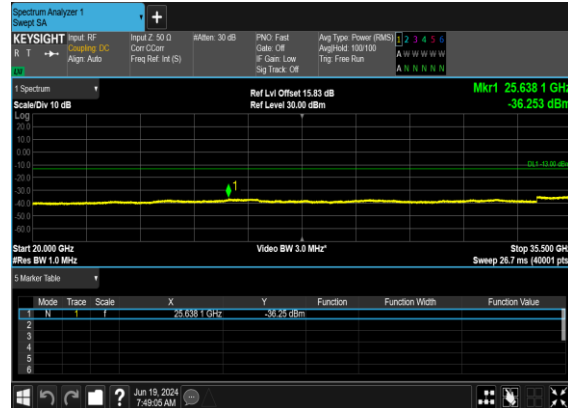
B2_N77(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



B2_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

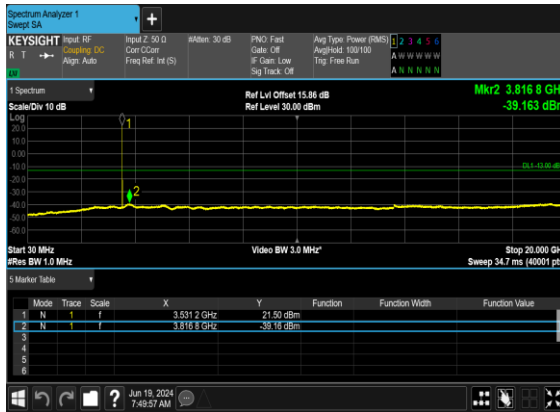


B2_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

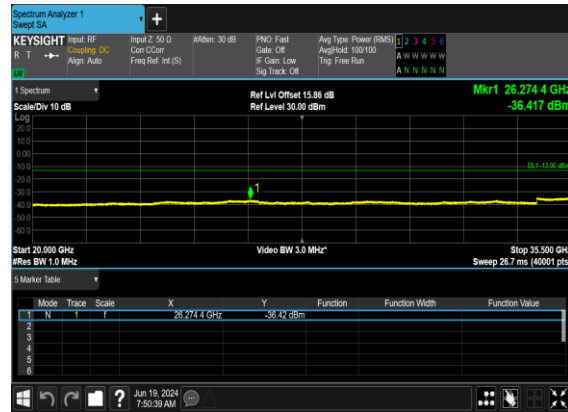




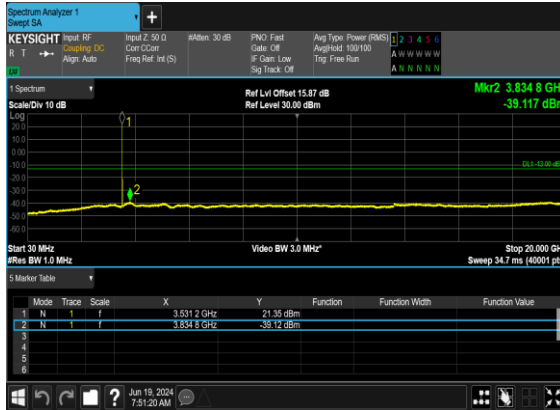
B2_N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



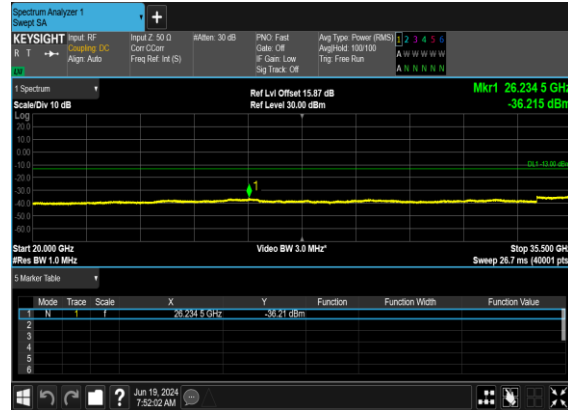
B2_N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH

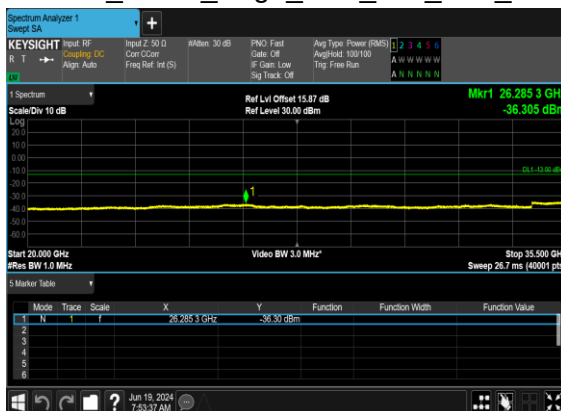
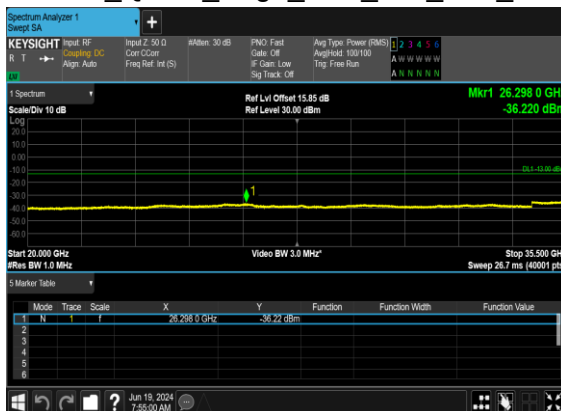


B2_N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



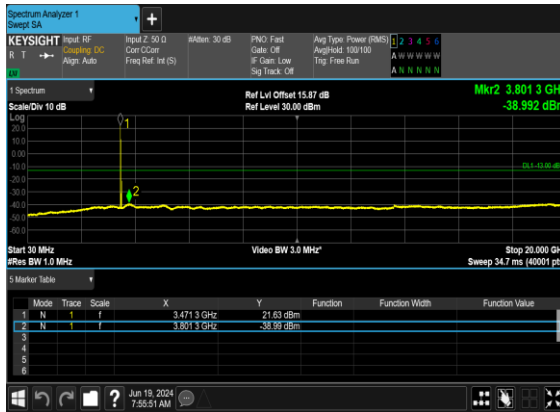
B2_N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



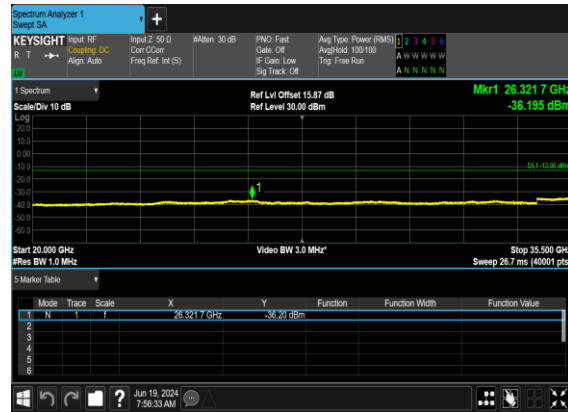
B2_N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CHB2_N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CHB2_N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHB2_N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



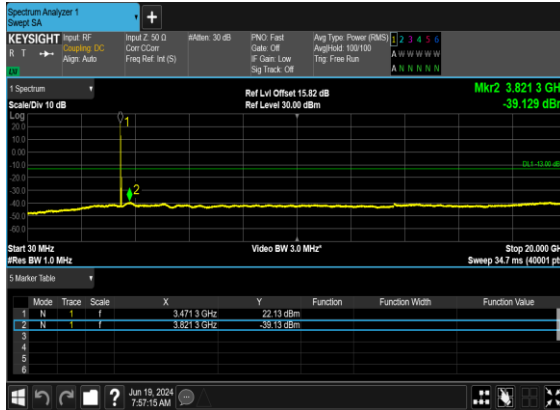
B2_N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



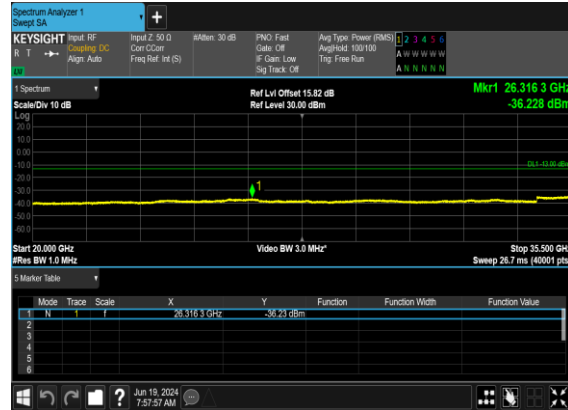
B2_N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



B2_N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

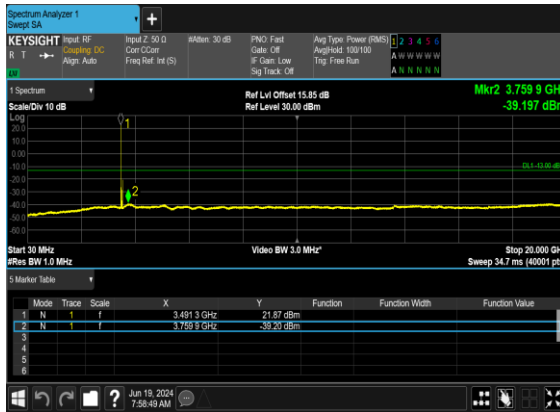


B2_N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

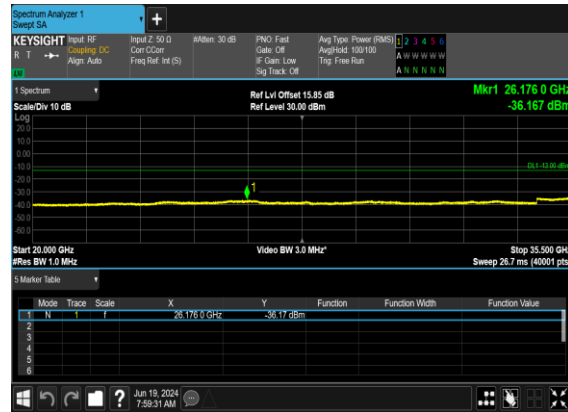




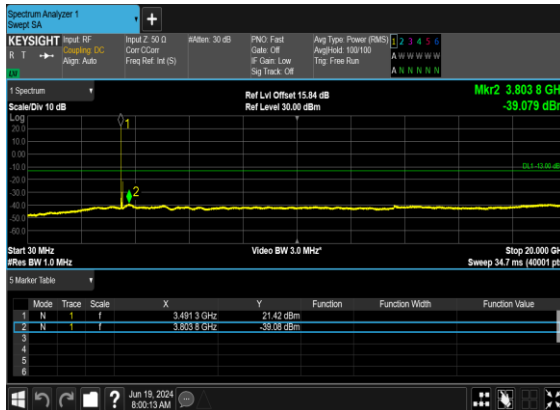
B2_N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



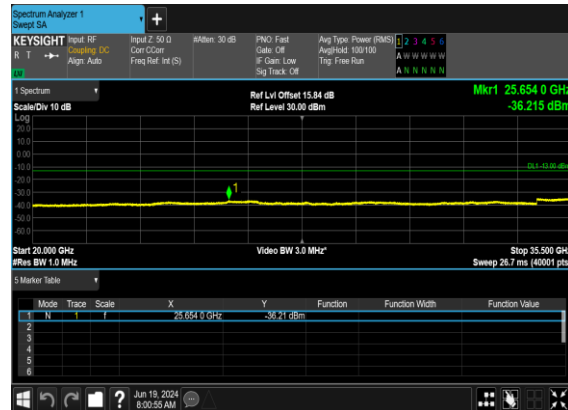
B2_N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



B2_N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



B2_N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

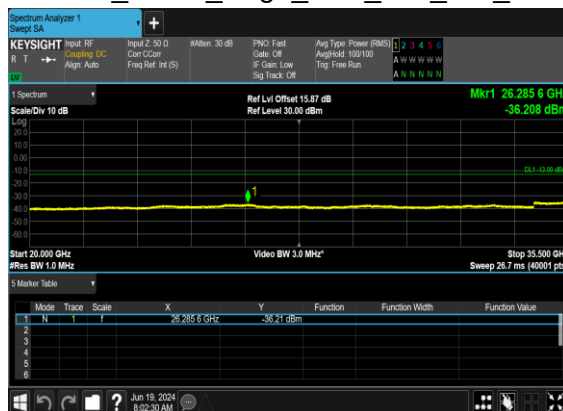




B2_N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



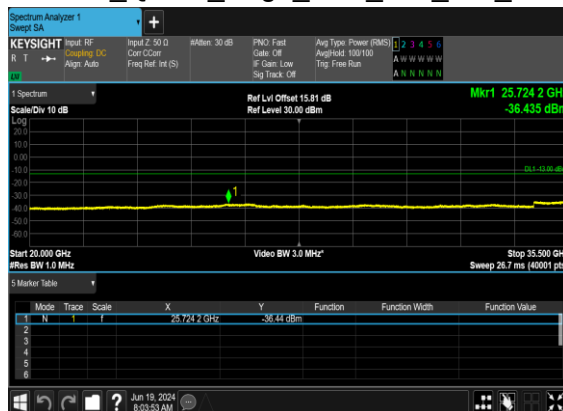
B2_N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



B2_N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



B2_N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

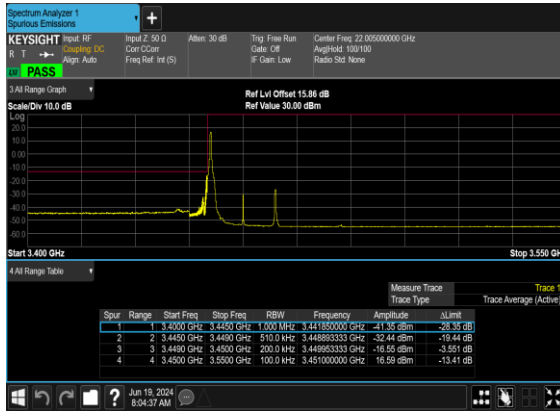


**Conducted Band Edge**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	50@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	50@0	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@50	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@50	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	162@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	162@0	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@161	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@161	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	162@0	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	162@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@272	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@272	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	see graph	PASS



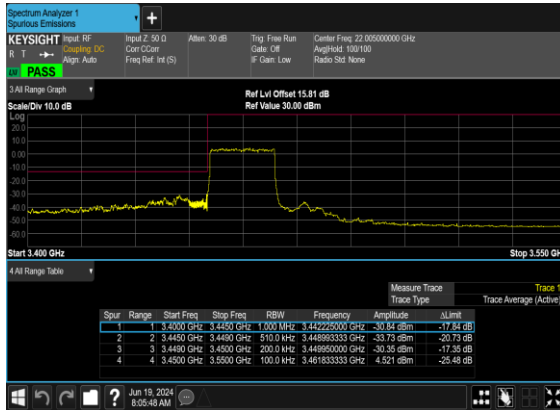
B2_N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



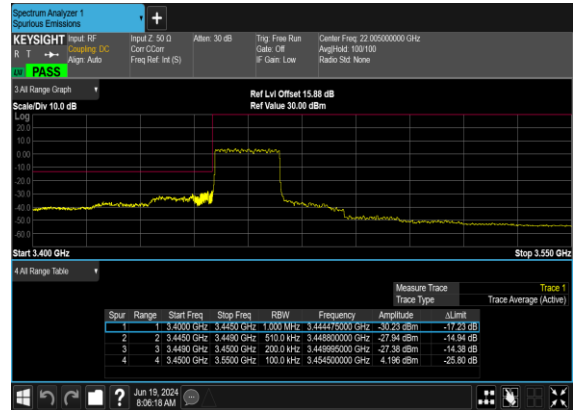
B2_N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



B2_N77(20M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

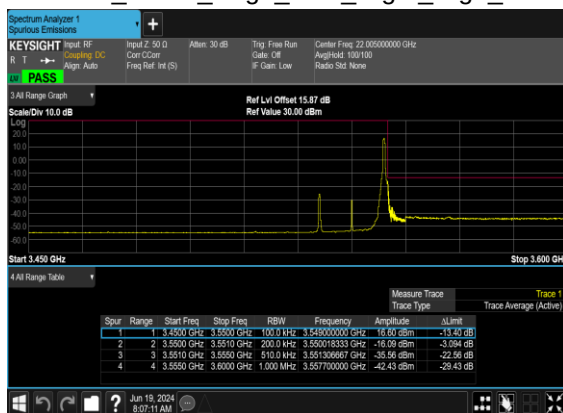


B2_N77(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

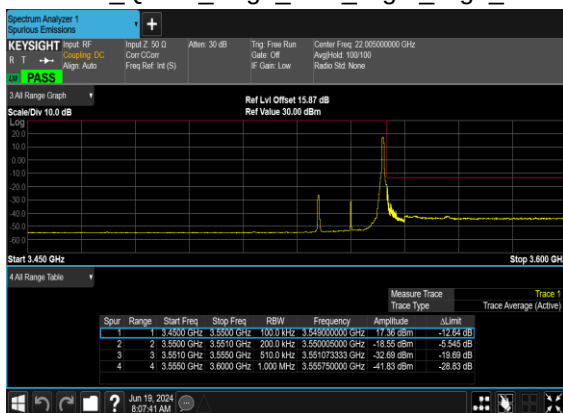




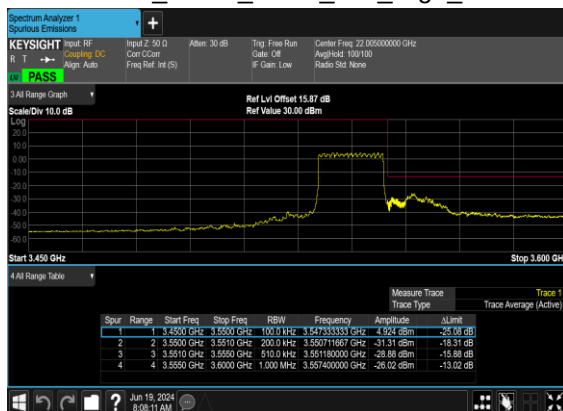
B2_N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



B2_N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



B2_N77(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



B2_N77(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

