TEST REPORT

FCC mmWave Test for SM-F741U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2404-FC010

DATE OF ISSUE
April 26, 2024

Tested by
Beom Jin Cho

Technical Manager
Jong Seok Lee

HCT CO., LTD.
BongJai Huh / CEO

HCT CO., LTD. 2-6, 73, 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA Tel. +82 31 645 6300 Fax. +82 31 645 6401

HCT CO.,LTD.
2-6, 73, 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA
Tel. +82 31 645 6300 Fax. +82 31 645 6401

TEST REPORT

REPORT NO.
HCT-RF-2404-FC010

DATE OF ISSUE
April 26, 2024

Applicant	**SAMSUNG Electronics Co., Ltd.** 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
Product Name Model Name	Mobile Phone SM-F741U
FCC ID	A3LSMF741U
FCC Classification	Part 30 Mobile Transmitter (5GM)
Date of Test	February 26, 2024 ~ April 25, 2024
Test Standard Used	ANSI C63.26-2015, KDB 971168 D01 v03r01, KDB 842590 D01 V01r02 FCC Rule Part(s) Part 30
Test Results	PASS
Location of Test	■ Permanent Testing Lab ☐ On Site Testing Lab (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	April 26, 2024	Initial Release

Notice

Content
Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance. The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated. The test results have only been applied with the test methods required by the standard(s). The laboratory is not accredited for the test results marked *. Information provided by the applicant is marked **. Test results provided by external providers are marked ***. When confirmation of authenticity of this test report is required, please contact www.hct.co.kr The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

CONTENTS

1. EUT DESCRIPTION 5
   1.1. MAXIMUM EIRP POWER 6
2. FACILITIES AND ACCREDITATIONS 13
   2.1. FACILITIES 13
   2.2. EQUIPMENT 14
3. TEST SPECIFICATIONS 15
   3.1. STANDARDS & TEST SUMMARY 16
   3.2. HIGHEST E.I.R.P POSITION 17
   3.3. MAXIMUM MEASUREMENT UNCERTAINTY 18
   3.4. STANDARDS ENVIRONMENTAL TEST CONDITIONS 18
   3.5. TEST DIAGRAMS 19
   3.6. ADDITIONAL DESCRIPTIONS ABOUT TEST 20
4. TEST EQUIPMENTS 21
5. TEST RESULT 22
   5.1. OCCUPIED BANDWIDTH 22
   5.2. EQUIVALENT ISOTROPIC RADIATED POWER 46
   5.3. BAND EDGE 63
   5.4. RADIATED SPURIOUS EMISSIONS 103
   5.5. FREQUENCY STABILITY 134
6. SAX VERIFICATION CERTIFICATE & CHECK 140
7. ISO 17025 CERTIFICATE 161
8. Annex A_EUT AND TEST SETUP PHOTO 163

1. EUT DESCRIPTION

Model	SM-F741U
Additional Model	SM-F741U1
EUT Type	Mobile Phone
Power Supply	DC 3.88 V
Band	n258a: 24,250 MHz ~ 24,450 MHz(TDD) n258b: 24,750 MHz ~ 25,250 MHz(TDD) n261: 27,500 MHz ~ 28,350 MHz(TDD) n260: 37,000 MHz ~ 40,000 MHz(TDD)
Channel Bandwidths	50 MHz/100 MHz
Carrier Specification	1CC, 2CC, 3CC, 4CC (EUT doesn't support 2cc, 3cc, 4cc, for 50MHz)
Multiple transmit	SISO, SISO Dual, MIMO
Channel	Low, Mid, High
SCS	120 kHz
OFDM	CP-OFDM, DFT-s-OFDM
RB size	1 RB(Offset: low, mid, high), half RB, Full RB
Modulation	PI/2 BPSK(DFT-s Only), QPSK, 16QAM, 64QAM
Antenna Specification	Antenna Designation - K patch: module 0 (K only) Antenna Size - 23.3 mm x 3.2 mm x 2.1 mm
Serial number	Radiated: R3CX20KJSGF

1.1. MAXIMUM EIRP POWER

n258a Band Antenna 0 (K patch)								
Mode	Antenna	Bandwidth (MHz)	CCs Active	Tx Frequency (MHz)	EIRP		Emission Designator	Modulation
					(W)	(dBm)		
SISO	K patch	50	1	24250 - 24450	0.436	26.39	46M1G7D	BPSK
SISO	K patch	50	1	24250 - 24450	0.442	26.45	46M1G7D	QPSK
SISO	K patch	50	1	24250 - 24450	0.387	25.88	46M0W7D	16QAM
SISO	K patch	50	1	24250 - 24450	0.196	22.92	46M0W7D	64QAM
SISO Dual	K patch	50	1	24250 - 24450	0.561	27.49	46M1G7D	BPSK
SISO Dual	K patch	50	1	24250 - 24450	0.516	27.13	46M2G7D	QPSK
SISO Dual	K patch	50	1	24250 - 24450	0.497	26.96	46M2W7D	16QAM
SISO Dual	K patch	50	1	24250 - 24450	0.271	24.33	46M1W7D	64QAM
SISO	K patch	100	1	24250 - 24450	0.475	26.77	91M5G7D	BPSK
SISO	K patch	100	1	24250 - 24450	0.474	26.76	94M4G7D	QPSK
SISO	K patch	100	1	24250 - 24450	0.417	26.20	94M4W7D	16QAM
SISO	K patch	100	1	24250 - 24450	0.207	23.15	94M2W7D	64QAM
SISO Dual	K patch	100	1	24250 - 24450	0.470	26.72	91M6G7D	BPSK
SISO Dual	K patch	100	1	24250 - 24450	0.469	26.71	94M4G7D	QPSK
SISO Dual	K patch	100	1	24250 - 24450	0.437	26.40	94M4W7D	16QAM
SISO Dual	K patch	100	1	24250 - 24450	0.222	23.46	94M4W7D	64QAM
SISO	K patch	100	2	24250 - 24450	0.371	25.69	191MG7D	BPSK
SISO	K patch	100	2	24250 - 24450	0.383	25.83	194MG7D	QPSK
SISO	K patch	100	2	24250 - 24450	0.347	25.40	194MW7D	16QAM
SISO	K patch	100	2	24250 - 24450	0.146	21.65	194MW7D	64QAM
SISO Dual	K patch	100	2	24250 - 24450	0.347	25.40	191MG7D	BPSK
SISO Dual	K patch	100	2	24250 - 24450	0.364	25.61	194MG7D	QPSK
SISO Dual	K patch	100	2	24250 - 24450	0.319	25.04	194MW7D	16QAM
SISO Dual	K patch	100	2	24250 - 24450	0.137	21.37	194MW7D	64QAM

n258b Band Antenna 0 (K patch)								
Mode	Antenna	Bandwidth (MHz)	CCs Active	Tx Frequency (MHz)	EIRP		Emission Designator	Modulation
					(W)	(dBm)		
SISO	K patch	50	1	24750 - 25250	0.593	27.73	46M3G7D	BPSK
SISO	K patch	50	1	24750 - 25250	0.624	27.95	46M2G7D	QPSK
SISO	K patch	50	1	24750 - 25250	0.556	27.45	46M0W7D	16QAM
SISO	K patch	50	1	24750 - 25250	0.284	24.53	46M0W7D	64QAM
SISO Dual	K patch	50	1	24750 - 25250	0.522	27.18	45M9G7D	BPSK
SISO Dual	K patch	50	1	24750 - 25250	0.516	27.13	46M0G7D	QPSK
SISO Dual	K patch	50	1	24750 - 25250	0.459	26.62	46M0W7D	16QAM
SISO Dual	K patch	50	1	24750 - 25250	0.225	23.53	45M9W7D	64QAM
SISO	K patch	100	1	24750 - 25250	0.573	27.58	91M6G7D	BPSK
SISO	K patch	100	1	24750 - 25250	0.598	27.77	94M3G7D	QPSK
SISO	K patch	100	1	24750 - 25250	0.525	27.20	94M3W7D	16QAM
SISO	K patch	100	1	24750 - 25250	0.253	24.03	94M4W7D	64QAM
SISO Dual	K patch	100	1	24750 - 25250	0.516	27.13	91M4G7D	BPSK
SISO Dual	K patch	100	1	24750 - 25250	0.520	27.16	94M4G7D	QPSK
SISO Dual	K patch	100	1	24750 - 25250	0.456	26.59	94M3W7D	16QAM
SISO Dual	K patch	100	1	24750 - 25250	0.219	23.41	94M3W7D	64QAM
SISO	K patch	100	2	24750 - 25250	0.469	26.71	191MG7D	BPSK
SISO	K patch	100	2	24750 - 25250	0.451	26.54	194MG7D	QPSK
SISO	K patch	100	2	24750 - 25250	0.400	26.02	194MW7D	16QAM
SISO	K patch	100	2	24750 - 25250	0.173	22.39	193MW7D	64QAM
SISO Dual	K patch	100	2	24750 - 25250	0.456	26.59	191MG7D	BPSK
SISO Dual	K patch	100	2	24750 - 25250	0.411	26.14	194MG7D	QPSK
SISO Dual	K patch	100	2	24750 - 25250	0.347	25.40	194MW7D	16QAM
SISO Dual	K patch	100	2	24750 - 25250	0.138	21.41	194MW7D	64QAM
SISO	K patch	100	3	24750 - 25250	0.264	24.22	290MG7D	BPSK
SISO	K patch	100	3	24750 - 25250	0.268	24.28	293MG7D	QPSK
SISO	K patch	100	3	24750 - 25250	0.212	23.27	293MW7D	16QAM
SISO	K patch	100	3	24750 - 25250	0.133	21.25	293MW7D	64QAM
SISO Dual	K patch	100	3	24750 - 25250	0.227	23.56	290MG7D	BPSK
SISO Dual	K patch	100	3	24750 - 25250	0.229	23.59	293MG7D	QPSK
SISO Dual	K patch	100	3	24750 - 25250	0.180	22.55	293MW7D	16QAM

n258b Band Antenna 0 (K patch)								
Mode	Antenna	Bandwidth (MHz)	CCs Active	Tx Frequency (MHz)	EIRP		Emission Designator	Modulation
					(W)	(dBm)		
SISO Dual	K patch	100	3	24750 - 25250	0.113	20.54	293MW7D	64QAM
SISO	K patch	100	4	24750 - 25250	0.273	24.36	390MG7D	BPSK
SISO	K patch	100	4	24750 - 25250	0.274	24.37	393MG7D	QPSK
SISO	K patch	100	4	24750 - 25250	0.214	23.31	393MW7D	16QAM
SISO	K patch	100	4	24750 - 25250	0.132	21.19	393MW7D	64QAM
SISO Dual	K patch	100	4	24750 - 25250	0.230	23.62	390MG7D	BPSK
SISO Dual	K patch	100	4	24750 - 25250	0.230	23.61	393MG7D	QPSK
SISO Dual	K patch	100	4	24750 - 25250	0.179	22.53	393MW7D	16QAM
SISO Dual	K patch	100	4	24750 - 25250	0.111	20.46	393MW7D	64QAM

n260 Band Antenna 0 (K patch)								
Mode	Antenna	Bandwidth (MHz)	CCs Active	Tx Frequency (MHz)	EIRP		Emission Designator	Modulation
					(W)	(dBm)		
SISO	K patch	50	1	37000 - 40000	0.776	28.90	46M2G7D	BPSK
SISO	K patch	50	1	37000 - 40000	0.682	28.34	46M2G7D	QPSK
SISO	K patch	50	1	37000 - 40000	0.692	28.40	46M2W7D	16QAM
SISO	K patch	50	1	37000 - 40000	0.310	24.92	46M3W7D	64QAM
SISO Dual	K patch	50	1	37000 - 40000	1.151	30.61	46M1G7D	BPSK
SISO Dual	K patch	50	1	37000 - 40000	1.089	30.37	45M9G7D	QPSK
SISO Dual	K patch	50	1	37000 - 40000	1.072	30.30	46M0W7D	16QAM
SISO Dual	K patch	50	1	37000 - 40000	0.553	27.43	46M1W7D	64QAM
SISO	K patch	100	1	37000 - 40000	0.656	28.17	91M9G7D	BPSK
SISO	K patch	100	1	37000 - 40000	0.653	28.15	95M3G7D	QPSK
SISO	K patch	100	1	37000 - 40000	0.574	27.59	95M0W7D	16QAM
SISO	K patch	100	1	37000 - 40000	0.301	24.78	98M4W7D	64QAM
SISO Dual	K patch	100	1	37000 - 40000	0.721	28.58	91M6G7D	BPSK
SISO Dual	K patch	100	1	37000 - 40000	0.778	28.91	95M2G7D	QPSK
SISO Dual	K patch	100	1	37000 - 40000	0.796	29.01	95M0W7D	16QAM
SISO Dual	K patch	100	1	37000 - 40000	0.286	24.56	95M5W7D	64QAM
SISO	K patch	100	2	37000 - 40000	0.649	28.12	192MG7D	BPSK
SISO	K patch	100	2	37000 - 40000	0.637	28.04	195MG7D	QPSK
SISO	K patch	100	2	37000 - 40000	0.577	27.61	195MW7D	16QAM
SISO	K patch	100	2	37000 - 40000	0.243	23.85	195MW7D	64QAM
SISO Dual	K patch	100	2	37000 - 40000	0.736	28.67	191MG7D	BPSK
SISO Dual	K patch	100	2	37000 - 40000	0.782	28.93	196MG7D	QPSK
SISO Dual	K patch	100	2	37000 - 40000	0.697	28.43	196MW7D	16QAM
SISO Dual	K patch	100	2	37000 - 40000	0.319	25.04	195MW7D	64QAM
SISO	K patch	100	3	37000 - 40000	0.380	25.80	292MG7D	BPSK
SISO	K patch	100	3	37000 - 40000	0.318	25.02	295MG7D	QPSK
SISO	K patch	100	3	37000 - 40000	0.260	24.15	294MW7D	16QAM
SISO	K patch	100	3	37000 - 40000	0.163	22.13	295MW7D	64QAM
SISO Dual	K patch	100	3	37000 - 40000	0.356	25.52	292MG7D	BPSK
SISO Dual	K patch	100	3	37000 - 40000	0.385	25.85	294MG7D	QPSK
SISO Dual	K patch	100	3	37000 - 40000	0.301	24.78	295MW7D	16QAM

n260 Band Antenna 0 (K patch)								
Mode	Antenna	Bandwidth (MHz)	CCs Active	Tx Frequency (MHz)	EIRP		Emission Designator	Modulation
					(W)	(dBm)		
SISO Dual	K patch	100	3	37000 - 40000	0.191	22.80	297MW7D	64QAM
SISO	K patch	100	4	37000 - 40000	0.334	25.24	393MG7D	BPSK
SISO	K patch	100	4	37000 - 40000	0.316	24.99	395MG7D	QPSK
SISO	K patch	100	4	37000 - 40000	0.250	23.98	395MW7D	16QAM
SISO	K patch	100	4	37000 - 40000	0.156	21.92	398MW7D	64QAM
SISO Dual	K patch	100	4	37000 - 40000	0.382	25.82	393MG7D	BPSK
SISO Dual	K patch	100	4	37000 - 40000	0.384	25.84	396MG7D	QPSK
SISO Dual	K patch	100	4	37000 - 40000	0.306	24.86	395MW7D	16QAM
SISO Dual	K patch	100	4	37000 - 40000	0.194	22.88	397MW7D	64QAM

n261 Band Antenna 0 (K patch)								
Mode	Antenna	Bandwidth (MHz)	CCs Active	Tx Frequency (MHz)	EIRP		Emission Designator	Modulation
					(W)	(dBm)		
SISO	K patch	50	1	27500 - 28350	1.109	30.45	46M1G7D	BPSK
SISO	K patch	50	1	27500 - 28350	1.089	30.37	46M0G7D	QPSK
SISO	K patch	50	1	27500 - 28350	0.989	29.95	46M1W7D	16QAM
SISO	K patch	50	1	27500 - 28350	0.490	26.90	45M9W7D	64QAM
SISO Dual	K patch	50	1	27500 - 28350	1.102	30.42	46M1G7D	BPSK
SISO Dual	K patch	50	1	27500 - 28350	1.009	30.04	46M1G7D	QPSK
SISO Dual	K patch	50	1	27500 - 28350	0.908	29.58	46M2W7D	16QAM
SISO Dual	K patch	50	1	27500 - 28350	0.429	26.32	46M1W7D	64QAM
SISO	K patch	100	1	27500 - 28350	1.102	30.42	91M6G7D	BPSK
SISO	K patch	100	1	27500 - 28350	1.117	30.48	94M5G7D	QPSK
SISO	K patch	100	1	27500 - 28350	0.993	29.97	94M5W7D	16QAM
SISO	K patch	100	1	27500 - 28350	0.484	26.85	94M3W7D	64QAM
SISO Dual	K patch	100	1	27500 - 28350	0.869	29.39	91M5G7D	BPSK
SISO Dual	K patch	100	1	27500 - 28350	0.841	29.25	94M7G7D	QPSK
SISO Dual	K patch	100	1	27500 - 28350	0.753	28.77	94M8W7D	16QAM
SISO Dual	K patch	100	1	27500 - 28350	0.414	26.17	94M3W7D	64QAM
SISO	K patch	100	2	27500 - 28350	0.841	29.25	191MG7D	BPSK
SISO	K patch	100	2	27500 - 28350	0.818	29.13	194MG7D	QPSK
SISO	K patch	100	2	27500 - 28350	0.740	28.69	194MW7D	16QAM
SISO	K patch	100	2	27500 - 28350	0.329	25.17	194MW7D	64QAM
SISO Dual	K patch	100	2	27500 - 28350	0.750	28.75	192MG7D	BPSK
SISO Dual	K patch	100	2	27500 - 28350	0.662	28.21	194MG7D	QPSK
SISO Dual	K patch	100	2	27500 - 28350	0.593	27.73	194MW7D	16QAM
SISO Dual	K patch	100	2	27500 - 28350	0.257	24.10	194MW7D	64QAM
SISO	K patch	100	3	27500 - 28350	0.454	26.57	291MG7D	BPSK
SISO	K patch	100	3	27500 - 28350	0.483	26.84	294MG7D	QPSK
SISO	K patch	100	3	27500 - 28350	0.372	25.71	293MW7D	16QAM
SISO	K patch	100	3	27500 - 28350	0.235	23.71	294MW7D	64QAM
SISO Dual	K patch	100	3	27500 - 28350	0.390	25.91	291MG7D	BPSK
SISO Dual	K patch	100	3	27500 - 28350	0.394	25.96	294MG7D	QPSK
SISO Dual	K patch	100	3	27500 - 28350	0.308	24.88	294MW7D	16QAM

n261 Band Antenna 0 (K patch)								
Mode	Antenna	Bandwidth (MHz)	CCs Active	Tx Frequency (MHz)	EIRP		Emission Designator	Modulation
					(W)	(dBm)		
SISO Dual	K patch	100	3	27500 - 28350	0.197	22.95	295MW7D	64QAM
SISO	K patch	100	4	27500 - 28350	0.467	26.69	392MG7D	BPSK
SISO	K patch	100	4	27500 - 28350	0.475	26.77	393MG7D	QPSK
SISO	K patch	100	4	27500 - 28350	0.373	25.72	394MW7D	16QAM
SISO	K patch	100	4	27500 - 28350	0.230	23.62	394MW7D	64QAM
SISO Dual	K patch	100	4	27500 - 28350	0.461	26.64	390MG7D	BPSK
SISO Dual	K patch	100	4	27500 - 28350	0.443	26.46	393MG7D	QPSK
SISO Dual	K patch	100	4	27500 - 28350	0.338	25.29	393MW7D	16QAM
SISO Dual	K patch	100	4	27500 - 28350	0.210	23.23	394MW7D	64QAM

2. FACILITIES AND ACCREDITATIONS

2.1. FACILITIES

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA. The site is constructed in conformance with the requirements of ANSI C63.4 (Version: 2014) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated March 11, 2024 (Registratio n Number: KR0032).

Seoicheon-ro
■ Semi Chamber 1
□ Semi Chamber 2
□ Semi Chamber 3
■ mmWave Chamber

The radiated test facilities consisted of an indoor 3 meters semi-anechoic chamber used for final measurements and exploratory measurements, when necessary for radiated emissions measurements in the spurious domain. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its fuction as a ground plane. An 80cm tall test table made of Styrodur is placed on top of the turn table. A Styrodur pedestal is placed on top of the table to bring the total table height to 1.5m for measurements above 1GHz.
Radiated spurious emission measurements from 30MHz - 18GHz were performed in a semi anechoic chamber (SAC) conforming to the site validation requirements.
Radiated power (EIRP) measurements were performed according to ANSI C63.26_2015 in a full anechoic chamber (FAC).
* The test facility has been recognised by the FCC under registration number KR0032. The full scope of recognition can be viewed at https://apps.fcc.gov/oetcf/eas/reports/ViewTestFirmAccredScopes.cfm?calledFromFrame=N&RequestTimeout=500&regnum_specified=N&test_firm_id=5749.

2.2. EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.
Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.
All receiving equipment conforms to CISPR Publication 16-1, “Radio Interference Measuring Apparatus and Measurement Methods.”

3. TEST SPECIFICATIONS

FCC Rule Parts	47 CFR FCC Part2, Part 30
Measurement standards	ANSI C63.26-2015, KDB 971168 D01 v03r01, KDB 662911 D01 v02r01, KDB 662911 D02 v01, KDB 842590 D01 v01r02

Note:

The EUT was tested per the guidance of ANSI C63.26-2015, KDB 971168 D01 v03r01, KDB 842590 D01 v01r02

EIRP Simulation data for all Beam IDs was used to determine the worst case Beam ID for SISO operation and Beam ID pair for SISO Dual/MIMO operation. These Beam ID's was used for final measurements.

All testing was performed using FTM software at continuous Tx operation(100 % duty cycle).

Patch antenna is comprised of two separate antenna feeds(H/V).

All modulations, RB size, CP-OFDM, DFT-s-OFDM and SCS were investigated and the worst case configuration results are reported.

In cases of SISO, SISO Dual, MIMO, CP-OFDM is supported.
In cases of SISO, SISO Dual, DFT-s-OFDM mode is supported.

Per 2.1057(a)(2), spurious emissions were investigated up to 200 GHz.(up to 100 GHz for n258, n261 band)

The radiated RF output power, band edge and all out-of-band emissions in the spurious domain are evaluated to the EIRP limits.

In case of band edge, if the band edge results do not comply the EIRP limit, the band edge results are converted to an equivalent conductive power by subtracting the known antenna gain from the EIRP measured at each frequency of interest. These emissions are compared to the 30.203 spurious emission limits as conductive power levels.

Beam IDs were selected based on which Beam ID produces the highest EIRP during EIRP simulation.

The radiated spurious emission was investigated in three orthogonal orientation x, y and z.
(worst case: y for n258a, y for n258b, y for n261, y for n260)

The configuration of mechanical mode is foldable so testing was investigated where screen opened, screen half-folded and screen closed. The test results of worst case are shown in this report.

3.1. STANDARDS & TEST SUMMARY

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 2, Part 30

Description	Test Limit	Reference	Results
Occupied Bandwidth	N/A	§ 2.1049	Compliant
Equivalent Isotropic Radiated Power	43 dBm	§ 30.202 § 30.202	Compliant
Out-of-Band Emissions at the Band Edge	-13 dBm/MHz for all out-of-band emissions, -5 dBm/MHz from the band edge up to 10 % of the channel BW	§ 2.1051, § 30.203	Compliant
Radiated Spurious Emissions	-13 dBm/MHz for all out-of-band emissions	§ 2.1051, § 30.203	Compliant
Frequency Stability	Fundamental emissions stay within authorized frequency block	§ 2.1055	Compliant

3.2. HIGHEST E.I.R.P POSITION

Antenna 0(K patch) SISO

Band	CH	Beam ID	Beam Pol.	Ant. Pol.	Azimuth(°)	Roll(°)	Beam ID	Beam Pol.	Ant. Pol.	Azimuth(°)	Roll(°)
n258a	Low	270	H	V	46	61	15	V	H	77	345
	Mid	275	H	V	59	43	15	V	V	75	14
	High	275	H	V	60	59	15	V	V	91	344
n258b	Low	275	H	V	13	75	19	V	V	61	346
	Mid	272	H	V	43	60	15	V	H	92	179
	High	272	H	V	60	120	20	V	H	77	164
n261	Low	269	H	V	60	344	15	V	H	58	328
	Mid	274	H	V	91	2	15	V	H	75	148
	High	274	H	V	89	0	14	V	H	76	181
n260	Low	19	H	V	92	164	271	V	H	59	164
	Mid	15	H	V	91	194	274	V	H	59	193
	High	15	H	V	75	17	270	V	V	89	14

Antenna 0(K patch) SISO Dual, MIMO

Band	CH	Beam ID	Beam Pol.	Ant. Pol.	Azimuth(°)	Roll(°)	Beam ID	Beam Pol.	Ant. Pol.	Azimuth(°)	Roll(°)
n258a	Low	20/276	H+V	H	60	346	20/276	H+V	V	74	211
	Mid	20/276	H+V	H	61	343	20/276	H+V	V	77	210
	High	20/276	H+V	H	59	347	20/276	H+V	V	74	225
n258b	Low	20/276	H+V	H	62	163	20/276	H+V	V	77	212
	Mid	20/276	H+V	H	90	164	20/276	H+V	V	74	209
	High	19/275	H+V	H	75	150	20/276	H+V	V	75	194
n261	Low	19/275	H+V	H	75	167	19/275	H+V	V	74	193
	Mid	19/275	H+V	H	60	344	19/275	H+V	V	77	210
	High	19/275	H+V	H	92	346	19/275	H+V	V	75	208
n260	Low	18/274	H+V	H	62	194	18/274	H+V	V	91	343
	Mid	17/273	H+V	H	92	328	15/271	H+V	V	77	332
	High	14/270	H+V	H	59	178	14/270	H+V	V	92	1

3.3. MAXIMUM MEASUREMENT UNCERTAINTY

The value of the measurement uncertainty for the measurement of each parameter.

Coverage factor k = 2, Confidence levels of 95 %

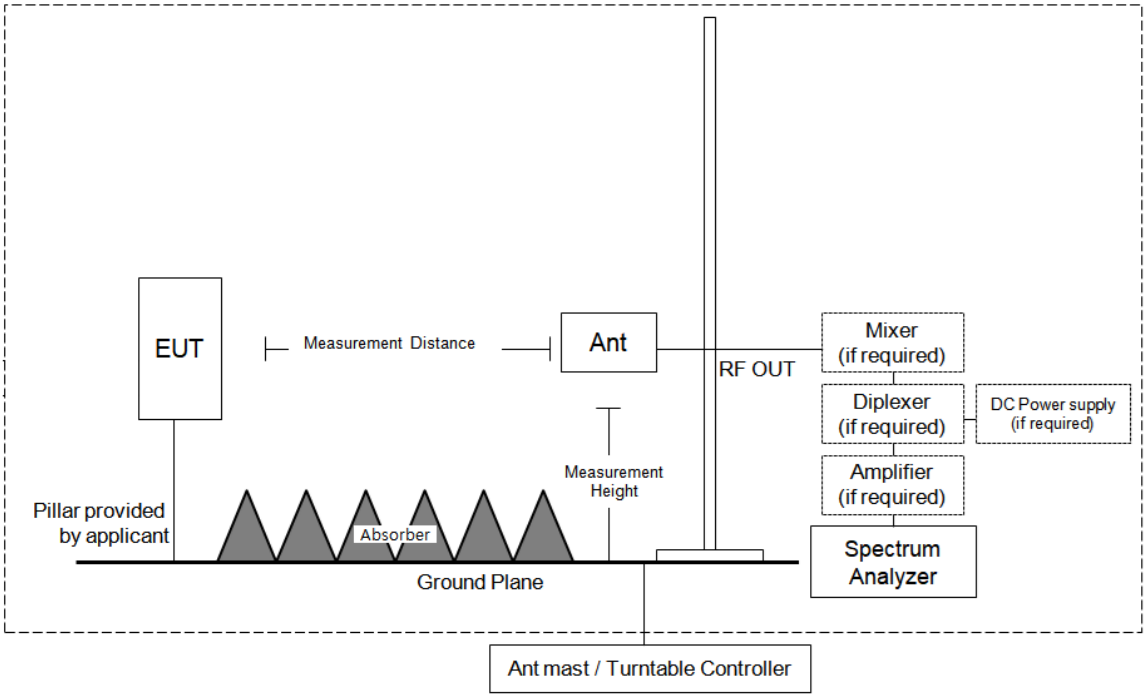
Description	Condition	Uncertainty
Occupied Bandwidth	-	± 0.31 MHz
Equivalent Isotropic Radiated Power	23.75 GHz ~ 25.70 GHz, 27.00 GHz ~ 28.80 GHz, 36.60 GHz ~ 40.02 GHz	± 5.66 dB
Band Edge		
Radiated Spurious Emissions	9 kHz ~ 30 MHz	± 4.36 dB
	30 MHz ~ 1 GHz	± 5.70 dB
	1 GHz ~ 18 GHz	± 5.52 dB
	18 GHz ~ 40 GHz	± 5.66 dB
	40 GHz ~ 200 GHz	± 5.58 dB
Frequency Stability	-	69.61 kHz

3.4. STANDARDS ENVIRONMENTAL TEST CONDITIONS

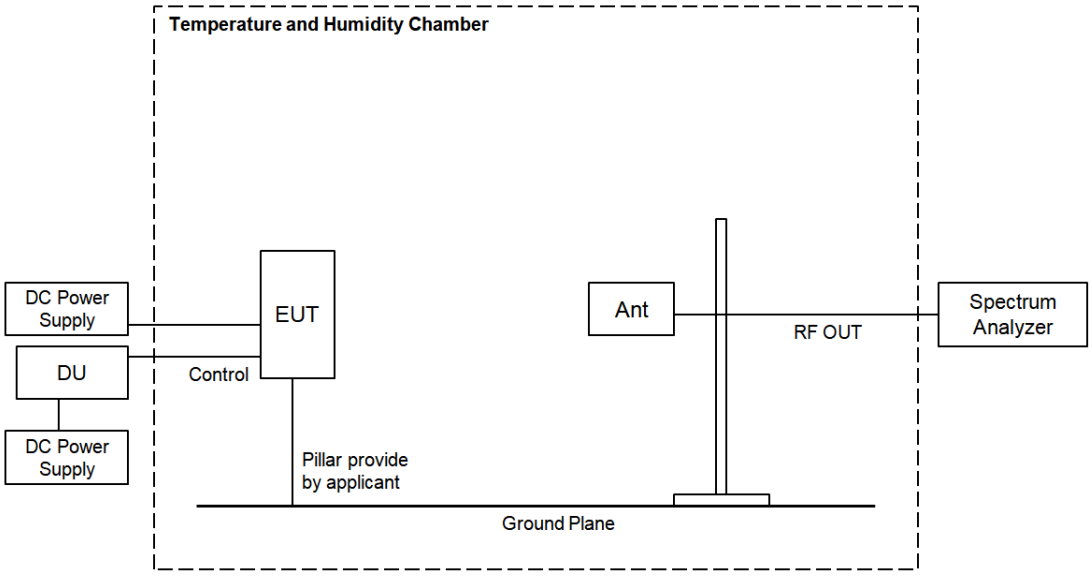
Temperature:	+15 °C to +35 °C
Relative humidity:	30 % to 60 %
Air pressure:	860 mbar to 1 060 mbar

3.5. TEST DIAGRAMS

Occupied Bandwidth / EIRP / Band Edge / RSE



Frequency stability



3.6. ADDITIONAL DESCRIPTIONS ABOUT TEST

- All tests are performed by radiated measurement and applied below conditions.

: Used measurement distance with far field of test such as EIRP, OBW and Band edge are as follow.

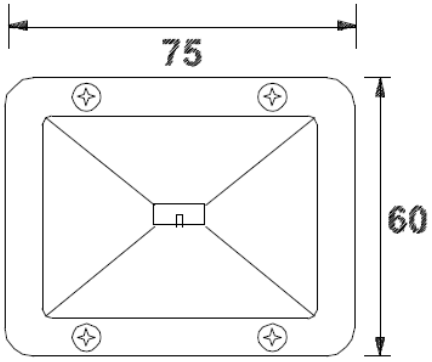
Wavelength = Speed of light / Measurement frequency = 30 / 4 000 = 0.0075

(2 X (Max measured antenna dimension)^2) / Wavelength = (2 X (0.09604686)^2)/ 0.0075= ***2.46 m***

: Spurious emissions measurement distance is shown in table below(Reference : Measurement Antenna Dimension).

Frequency Rage (GHz)	Wavelength (cm)	Far Field Distance (m)	Measurement Distance(m)
18 ~ 40	0.75	2.46	3.00
40 ~ 60	0.50	1.354	1.50
60 ~90	0.33	0.856	1.00
90 ~ 140	0.214	0.572	1.00
140 ~ 200	0.15	0.332	0.50

- Unwanted radiated emissions test was performed on state of all EUT antenna path is operated with a maximum output power level.
- In case of far-field distance for fundamental, we applied the measured antenna dimension because the measured antenna is bigger than the antenna of EUT.
- Dimension of measured(BBHA 9170) antenna: 0.096046 m



- Dimension of EUT antenna: 0.023612 m
- Below 18 GHz, measurement distance is 3.00 m.

4. TEST EQUIPMENTS

Manufacturer	Model / Equipment	Due to Calibration	Calibration Interval	Serial No.
Agilent	N9030A / PXA Signal Analyzer	02/23/2025	Annual	US51350313
Agilent	N9030B / PXA Signal Analyzer	10/05/2024	Annual	MY60070602
KIKUSUI	PWR800L / DC Power Supply	07/17/2024	Annual	RE002047
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/800-XP-EP / Antenna Position Tower	N/A	N/A	N/A
Rohde&Schwarz	FSW / Spectrum Analyzer	10/13/2024	Annual	101256
Schwarzbeck	Loop Antenna	01/16/2025	Biennial	1513-175
Emco	2090 / Controller	N/A	N/A	060520
Ets	Turn Table	N/A	N/A	N/A
Schwarzbeck	VULB 9168 / Hybrid Antenna	08/16/2024	Biennial	9168-0895
Schwarzbeck	BBHA 9120D / Horn Antenna	01/03/2026	Biennial	9120D-1300
Schwarzbeck	BBHA 9170 / Horn Antenna	11/01/2025	Biennial	BBHA9170541
OML INC.	WR-19 / Horn Antenna	03/07/2026	Annual	M19RH-180423-1
OML INC.	WR-19 / Horn Antenna	03/07/2026	Annual	M19RH-180423-2
OML INC.	WR-12 / Horn Antenna	04/03/2026	Annual	M12RH-160419-1
OML INC.	WR-12 / Horn Antenna	04/03/2026	Annual	M12RH-160419-2
OML INC.	WR-08 / Horn Antenna	03/07/2026	Annual	M08RH-180501-1
OML INC.	WR-08 / Horn Antenna	03/07/2026	Annual	M08RH-180501-2
OML INC.	WR-05 / Horn Antenna	03/07/2026	Annual	M05RH-180501-1
OML INC.	WR-05 / Horn Antenna	03/07/2026	Annual	M05RH-180501-2
VDI	WR19SAX / Spectrum Analyzer Extension Module	03/06/2025	Annual	SAX771
VDI	WR12SAX / Spectrum Analyzer Extension Module	03/06/2025	Annual	SAX773
VDI	WR8.0SAX / Spectrum Analyzer Extension Module	03/06/2025	Annual	SAX779
VDI	WR5.1SAX / Spectrum Analyzer Extension Module	03/06/2025	Annual	SAX774
OML INC.	WR-19 / Source Module	07/19/2024	Annual	S19MS-A-160516-1
OML INC.	WR-12 / Source Module	07/19/2024	Annual	S12MS-A-160419-1
OML INC.	WR-08 / Source Module	07/19/2024	Annual	S08MS-A-160419-1
OML INC.	WR-05 / Source Module	07/19/2024	Annual	S05MS-A-160419-1
NANGYEUL CO., LTD.	NY-THR18750 / Temperature and Humidity Chamber	01/04/2025	Annual	NY-200912201A
Rohde & Schwarz	SMV100A / Signal Generator	06/22/2024	Annual	177633
Keysight	E7515B / UXM 5G Wireless Test Platform	12/19/2024	Annual	MY58300756
T&M SYSTEM	FBSR-04C / LNA1 thru(100M-18G)	04/11/2025	Annual	S4L4
SONOMA INSTRUMENT	310N / AMPLIFIER	02/14/2025	Annual	186169
TESTEK	TK-PA1840H / AMPLIFIER	10/20/2024	Annual	170011-L

Note:

1. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
2. Especially, all antenna(except WR 08, 05) for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2017).

5. TEST RESULT

5.1. OCCUPIED BANDWIDTH

FCC Rules

Test Requirements:

§ 2.1049 Measurements required: Occupied bandwidth.

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the specified conditions of § 2.1049 (a) through (i) as applicable. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedures:

The measurement is performed in accordance with Section 5.4.3 and 5.4.4 of ANSI C63.26.

5.4.3 Occupied bandwidth—Relative measurement procedure

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.

b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.

c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.

NOTE—Step a), step b), and step c) may require iteration to adjust within the specified tolerances.

d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target "−X dB" requirement, i.e., if the requirement calls for measuring the −26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.

e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.

f) Determine the reference value by either of the following:

1) 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).

2) Set the EUT to transmit an unmodulated carrier. Set the spectrum analyzer marker to the level of the carrier.

g) Determine the "−X dB amplitude" as equal to (Reference Value − X). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.

h) If the reference value was determined using an unmodulated carrier, turn the EUT modulation on, then either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise the trace from step f) shall be used for step i).

i) 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 amplitude" determined in step f). If a marker is below this "−X dB amplitude" value it should be as close as possible to this value. The OBW is the positive

frequency difference between the two markers. The spectral envelope can cross the "−X dB amplitude" at multiple points. The lowest or highest frequency shall be selected as the frequencies that are the farthest away from the center frequency at which the spectral envelope crosses the "−X dB amplitude."

j) The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

5.4.4 Occupied bandwidth—Power bandwidth (99%) measurement procedure

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of 1.5 × OBW is sufficient).

b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.

c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.

NOTE—Step a), step b), and step c) may require iteration to adjust within the specified tolerances.

d) Set the detection mode to peak, and the trace mode to max-hold.

e) If the instrument does not have a 99% OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5% of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5% of the total is reached and record that frequency as the upper OBW frequency. The 99% power OBW can be determined by computing the difference these two frequencies.

f) The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

Test Results:

Tabular Data of Occupied Bandwidth

n258a Band Antenna 0 (K patch)

Antenna	Bandwidth [MHz]	CCs active	Modulation	OBW [MHz]
K patch	50	1	BPSK	46.091
			QPSK	46.187
			16QAM	46.204
			64QAM	46.107
	100	1	BPSK	91.559
			QPSK	94.435
			16QAM	94.397
			64QAM	94.446
	100	2	BPSK	190.650
			QPSK	194.140
			16QAM	194.220
			64QAM	194.270

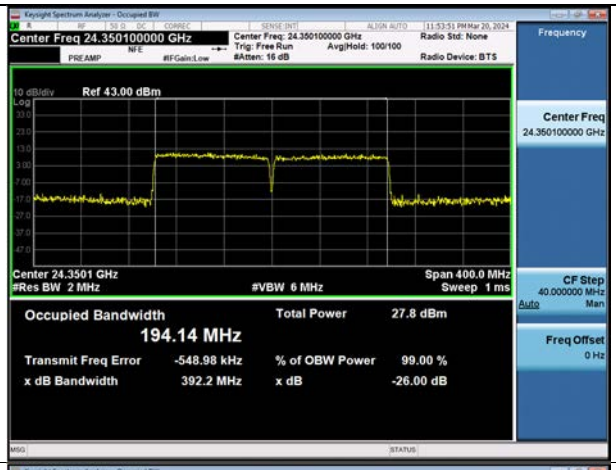
Plot Data of RF Occupied Bandwidth

n258a Band Antenna 0 (K patch)

50 MHz, 1CC

100 MHz, 1CC

100 MHz, 2CC



Tabular Data of Occupied Bandwidth

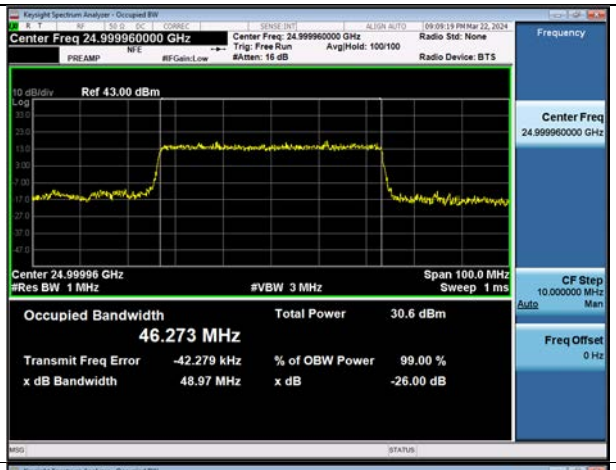
n258b Band Antenna 0 (K patch)

Antenna	Bandwidth [MHz]	CCs active	Modulation	OBW [MHz]
K patch	50	1	BPSK	46.273
			QPSK	46.199
			16QAM	46.043
			64QAM	46.041
	100	1	BPSK	91.558
			QPSK	94.369
			16QAM	94.322
			64QAM	94.373
	100	2	BPSK	190.89
			QPSK	193.78
			16QAM	193.69
			64QAM	193.88
	100	3	BPSK	290.22
			QPSK	292.65
			16QAM	293.24
			64QAM	293.30
	100	4	BPSK	390.24
			QPSK	393.17
			16QAM	392.91
			64QAM	393.31

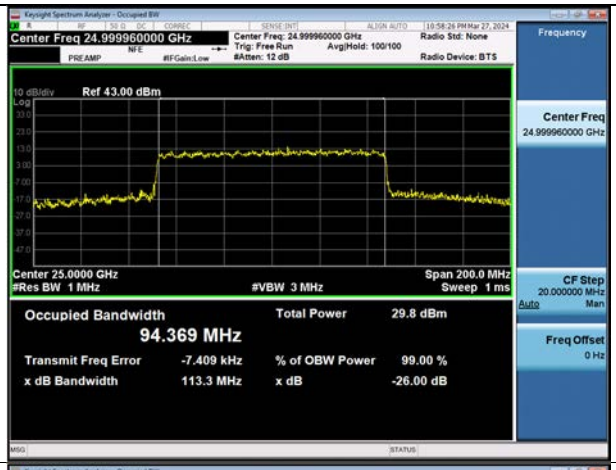
Plot Data of RF Occupied Bandwidth

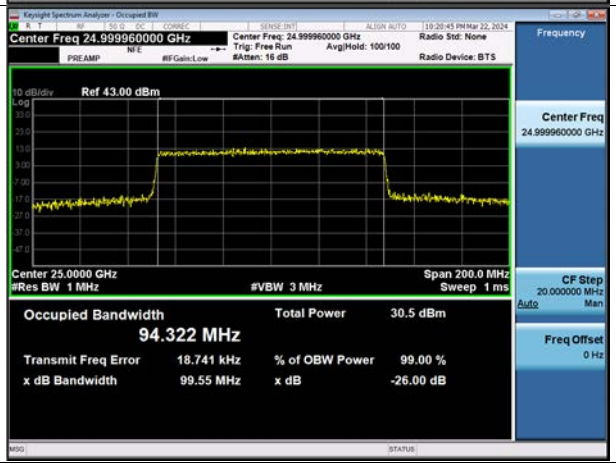
n258b Band Antenna 0 (K patch)

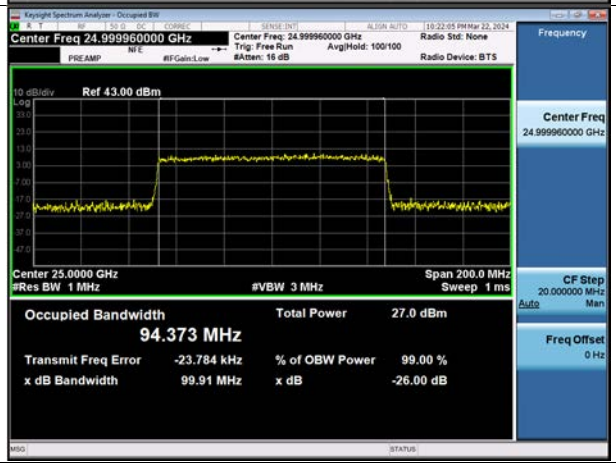
50 MHz, 1CC



100 MHz, 1CC

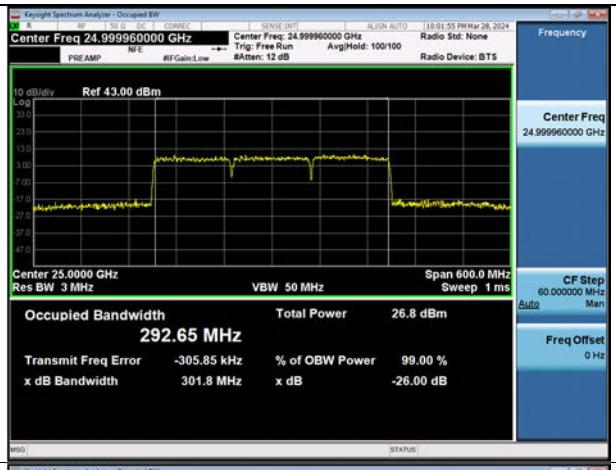




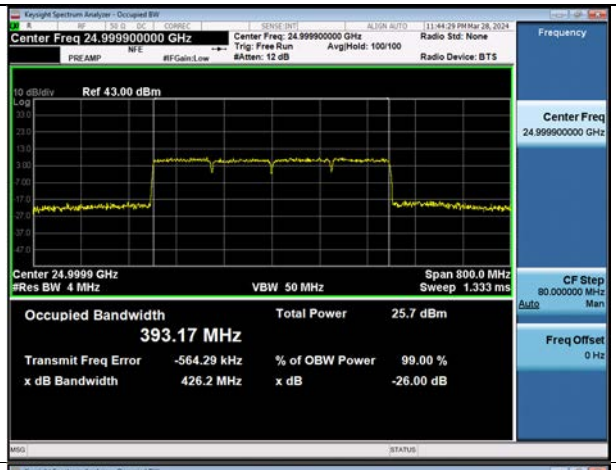


100 MHz, 2CC

100 MHz, 3CC



100 MHz, 4CC



Tabular Data of Occupied Bandwidth

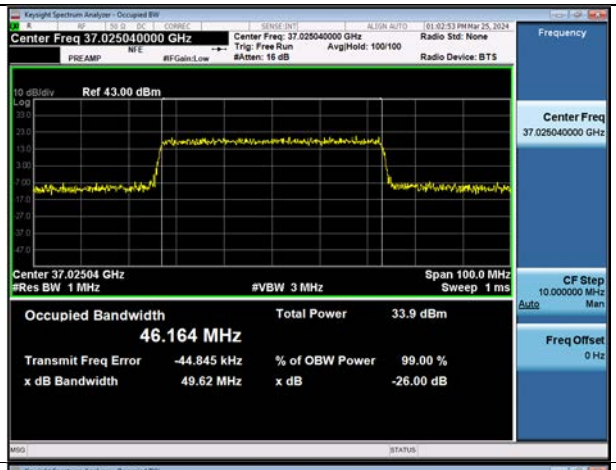
n260 Band Antenna 0 (K patch)

Antenna	Bandwidth [MHz]	CCs active	Modulation	OBW [MHz]
K patch	50	1	BPSK	46.206
			QPSK	46.164
			16QAM	46.190
			64QAM	46.257
	100	1	BPSK	91.911
			QPSK	95.280
			16QAM	95.009
			64QAM	98.386
	100	2	BPSK	192.10
			QPSK	195.97
			16QAM	195.93
			64QAM	195.41
	100	3	BPSK	292.32
			QPSK	294.99
			16QAM	294.85
			64QAM	296.54
	100	4	BPSK	393.41
			QPSK	395.74
			16QAM	395.12
			64QAM	397.99

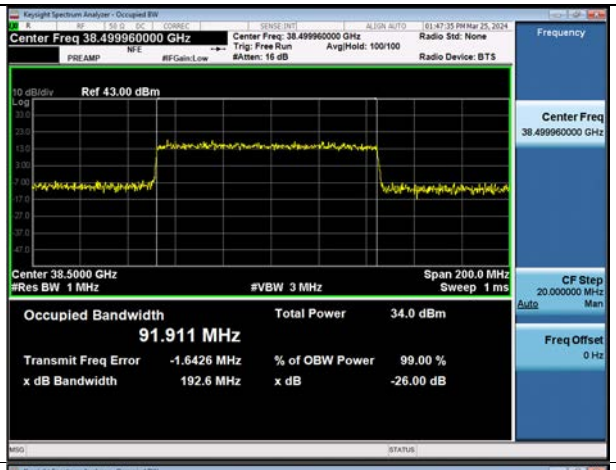
Plot Data of RF Occupied Bandwidth

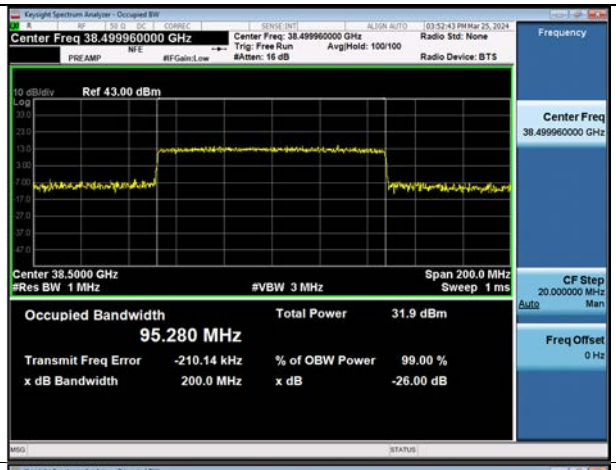
n260 Band Antenna 0 (K patch)

50 MHz, 1CC

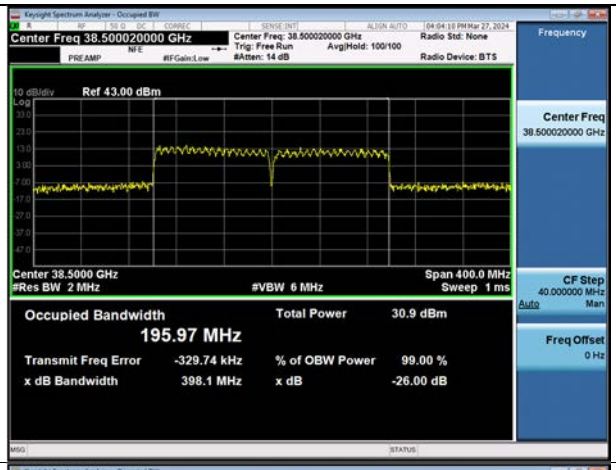


100 MHz, 1CC

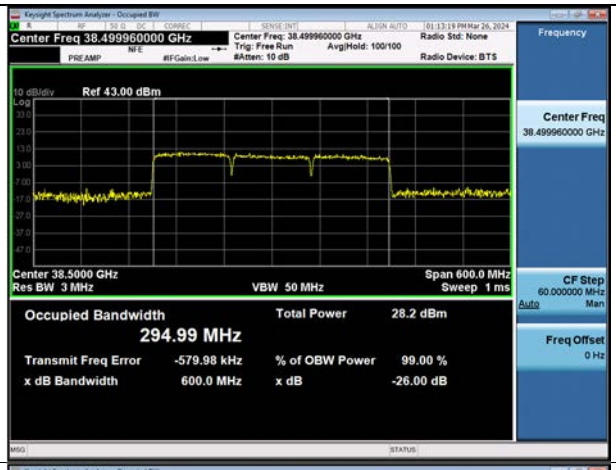




100 MHz, 2CC



100 MHz, 3CC



100 MHz, 4CC

Tabular Data of Occupied Bandwidth

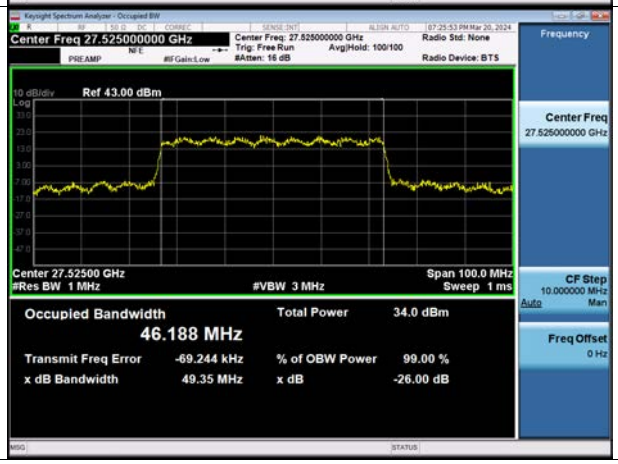
n261 Band Antenna 0 (K patch)

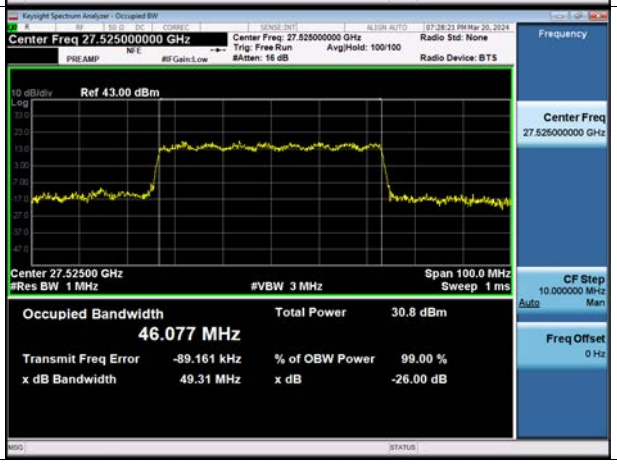
Antenna	Bandwidth [MHz]	CCs active	Modulation	OBW [MHz]
K patch	50	1	BPSK	46.112
			QPSK	46.149
			16QAM	46.188
			64QAM	46.077
	100	1	BPSK	91.561
			QPSK	94.710
			16QAM	94.759
			64QAM	94.343
	100	2	BPSK	191.75
			QPSK	194.26
			16QAM	194.29
			64QAM	193.97
	100	3	BPSK	291.23
			QPSK	294.00
			16QAM	293.99
			64QAM	294.91
	100	4	BPSK	391.71
			QPSK	393.42
			16QAM	393.56
			64QAM	393.98

Plot Data of RF Occupied Bandwidth

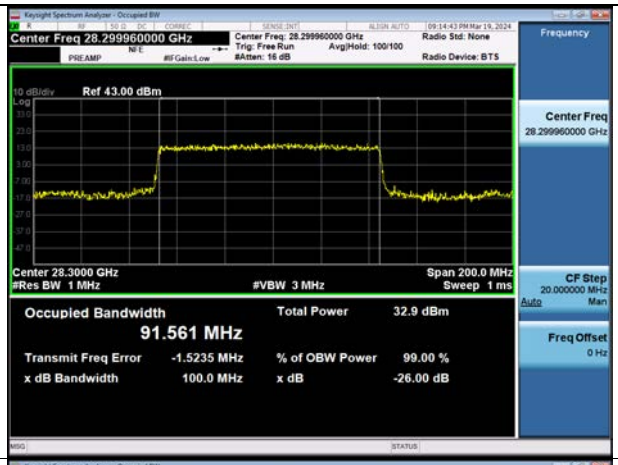
n261 Band Antenna 0 (K patch)

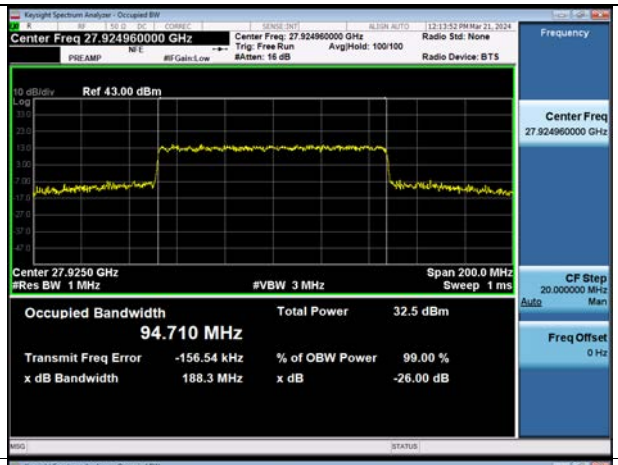
50 MHz, 1CC





100 MHz, 1CC





100 MHz, 2CC

100 MHz, 3CC

100 MHz, 4CC

5.2. EQUIVALENT ISOTROPIC RADIATED POWER

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

The average power of the sum of all antenna elements is limited to a maximum EIRP of +43 dBm.

FCC Rules

Test Requirements:

§ 30.202 Power limits.

(b) For mobile stations, the average power of the sum of all antenna elements is limited to a maximum EIRP of +43 dBm.

Test Procedures:

The measurement is performed in accordance with Section 5.2.4.4.2 of ANSI C63.26.

a) Set span to 2 × to 3 × the OBW.

b) Set RBW = 1% to 5% of the OBW.

c) Set VBW ≥ 3 × RBW.

d) Set number of measurement points in sweep ≥ 2 × span / RBW.

e) Sweep time:

1) Set = auto-couple, or

2) Set ≥ [10 × (number of points in sweep) × (transmission symbol period)] for single sweep (automation-compatible) measurement.

f) Detector = power averaging (rms).

g) Set sweep trigger to “free run.”

h) Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

i) Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band or channel power measurement function with band/channel limits set equal to the OBW band edges. If the instrument does not have a band or channel power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

j) Add 10 log (1/duty cycle) to the measured power level to compute the average power during continuous transmission.

Note:

1. The EUT was tested under rotating conditions and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
2. Elements within the same antenna array are correlated to produce beamforming array gain. Antenna arrays cannot be correlated with another antenna array. During testing, only one antenna array was active.
3. Radiated power levels are investigated while the receive antenna was rotated through all angles to determine the worst case polarization/positioning. It was determined that H=0 degree and V=90 degree are the worst case positions when the EUT was transmitting horizontally and vertically polarized beams, respectively.

Test Results:

Tabular Data of EIRP

n258a Band Antenna 0 (K patch)

SISO

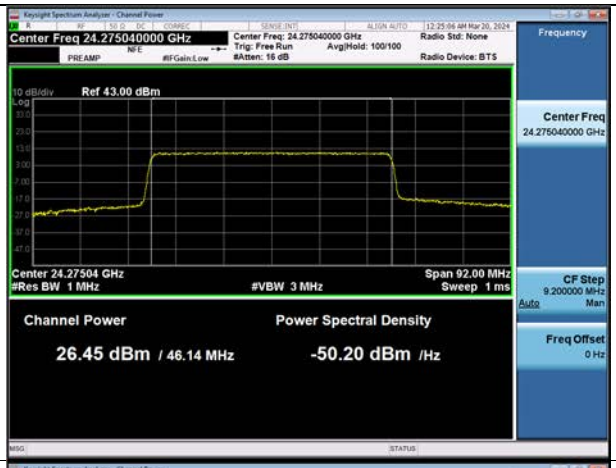
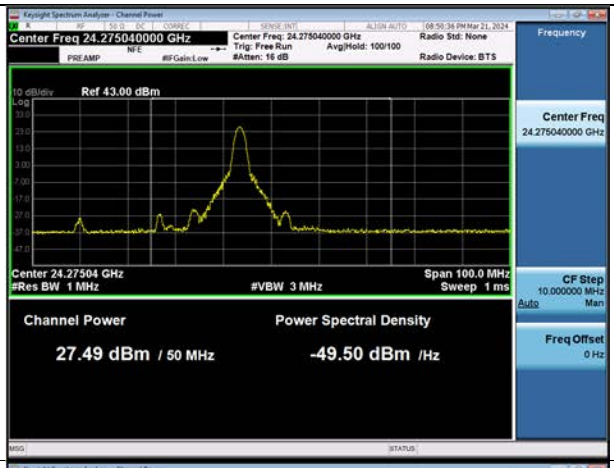
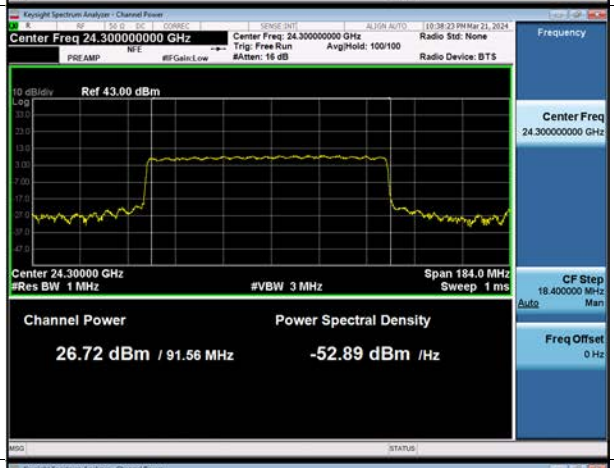
CCs active	BW [MHz]	Frequency [MHz]	Channel	Beam Pol	Modulation	Ant. Pol	RB Size/Offset	EIRP [dBm]
1	50	24275.04	Low	V	QPSK	H	32/0	**26.45**
		24350.04	Mid	V	BPSK	V	32/0	26.32
		24424.92	High	V	BPSK	V	32/0	25.96
		24275.04	Low	V	BPSK	H	16/16	26.39
		24275.04	Low	V	16QAM	H	32/0	25.88
		24275.04	Low	V	64QAM	H	1/0	22.92
1	100	24300.00	Low	V	BPSK	H	64/0	**26.77**
		24350.04	Mid	V	BPSK	V	64/0	26.43
		24399.96	High	V	BPSK	V	32/32	26.36
		24300.00	Low	V	QPSK	H	64/0	26.76
		24300.00	Low	V	16QAM	H	64/0	26.20
		24300.00	Low	V	64QAM	H	1/0	23.15
2	100	24350.04	Mid	V	QPSK	V	64/0	**25.83**
		24350.04	Mid	V	BPSK	V	64/0	25.69
		24350.04	Mid	V	16QAM	V	64/0	25.40
		24350.04	Mid	V	64QAM	V	64/0	21.65

SISO Dual

CCs active	BW [MHz]	Frequency [MHz]	Channel	Beam Pol	Modulation	Ant. Pol	RB Size/Offset	EIRP [dBm]
1	50	24275.04	Low	H+V	BPSK	H	1/11	**27.49**
		24350.04	Mid	H+V	BPSK	H	1/11	27.14
		24424.92	High	H+V	BPSK	H	1/11	26.97
		24275.04	Low	H+V	QPSK	H	1/11	27.13
		24275.04	Low	H+V	16QAM	H	1/11	26.96
		24275.04	Low	H+V	64QAM	H	1/11	24.33
1	100	24300.00	Low	H+V	BPSK	H	64/0	**26.72**
		24350.04	Mid	H+V	BPSK	H	64/0	26.56
		24399.96	High	H+V	BPSK	H	64/0	26.36
		24300.00	Low	H+V	QPSK	H	64/0	26.71
		24300.00	Low	H+V	16QAM	H	64/0	26.40
		24300.00	Low	H+V	64QAM	H	1/0	23.46
2	100	24350.04	Mid	H+V	QPSK	H	64/0	**25.61**
		24350.04	Mid	H+V	BPSK	H	64/0	25.40
		24350.04	Mid	H+V	16QAM	H	64/0	25.04
		24350.04	Mid	H+V	64QAM	H	64/0	21.37

Plot Data of EIRP

n258a Band Antenna 0 (K patch)

SISO	SISO Dual
	
	
	

Tabular Data of EIRP

n258b Band Antenna 0 (K patch)

SISO

CCs active	BW [MHz]	Frequency [MHz]	Channel	Beam Pol	Modulation	Ant. Pol	RB Size/Offset	EIRP [dBm]
1	50	24775.08	Low	V	BPSK	V	1/11	26.32
		24999.96	Mid	V	QPSK	H	32/0	**27.95**
		25224.96	High	V	BPSK	H	32/0	27.54
		24999.96	Mid	V	BPSK	H	32/0	27.73
		24999.96	Mid	V	16QAM	H	32/0	27.45
		24999.96	Mid	V	64QAM	H	32/0	24.53
1	100	24800.04	Low	V	BPSK	V	64/0	26.19
		24999.96	Mid	V	QPSK	H	64/0	**27.77**
		25200.00	High	V	BPSK	H	64/0	27.37
		24999.96	Mid	V	BPSK	H	64/0	27.58
		24999.96	Mid	V	16QAM	H	64/0	27.20
		24999.96	Mid	V	64QAM	H	64/0	24.03
2	100	24850.02	Low	V	BPSK	V	64/0	25.31
		25000.02	Mid	V	BPSK	H	64/0	**26.71**
		25150.02	High	V	BPSK	H	64/0	26.45
		25000.02	Mid	V	QPSK	H	64/0	26.54
		25000.02	Mid	V	16QAM	H	64/0	26.02
		25000.02	Mid	V	64QAM	H	64/0	22.39
3	100	24900.00	Low	V	BPSK	V	64/0	22.96
		24999.96	Mid	V	QPSK	H	64/0	**24.28**
		25100.04	High	V	BPSK	H	64/0	24.19
		24999.96	Mid	V	BPSK	H	64/0	24.22
		24999.96	Mid	V	16QAM	H	64/0	23.27
		24999.96	Mid	V	64QAM	H	1/65	21.25
4	100	24949.98	Low	V	BPSK	V	64/0	23.44
		24999.90	Mid	V	QPSK	H	64/0	**24.37**
		25050.06	High	V	BPSK	H	64/0	23.95
		24999.90	Mid	V	BPSK	H	64/0	24.36
		24999.90	Mid	V	16QAM	H	64/0	23.31
		24999.90	Mid	V	64QAM	H	64/0	21.19

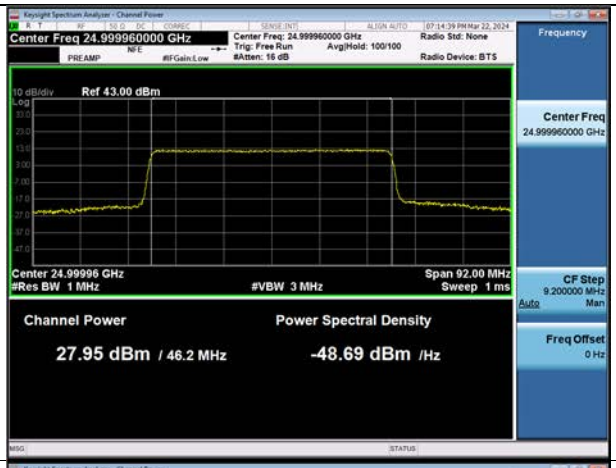
SISO Dual

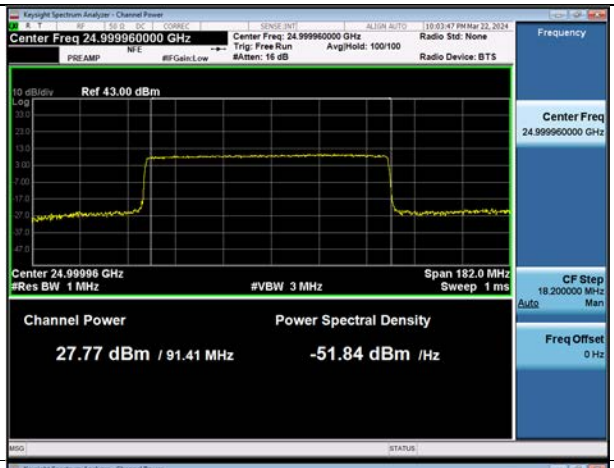
CCs active	BW [MHz]	Frequency [MHz]	Channel	Beam Pol	Modulation	Ant. Pol	RB Size/Offset	EIRP [dBm]
1	50	24775.08	Low	H+V	BPSK	V	1/11	27.02
		24999.96	Mid	H+V	BPSK	H	32/0	**27.18**
		25224.96	High	H+V	BPSK	H	32/0	26.41
		24999.96	Mid	H+V	QPSK	H	32/0	27.13
		24999.96	Mid	H+V	16QAM	H	32/0	26.62
		24999.96	Mid	H+V	64QAM	H	32/0	23.53
1	100	24800.04	Low	H+V	BPSK	V	64/0	26.36
		24999.96	Mid	H+V	QPSK	H	64/0	**27.16**
		25200.00	High	H+V	BPSK	H	64/0	25.68
		24999.96	Mid	H+V	BPSK	H	64/0	27.13
		24999.96	Mid	H+V	16QAM	H	64/0	26.59
		24999.96	Mid	H+V	64QAM	H	64/0	23.41
2	100	24850.02	Low	H+V	BPSK	V	64/0	25.65
		25000.02	Mid	H+V	BPSK	H	64/0	**26.59**
		25150.02	High	H+V	BPSK	H	64/0	25.44
		25000.02	Mid	H+V	QPSK	H	64/0	26.14
		25000.02	Mid	H+V	16QAM	H	64/0	25.40
		25000.02	Mid	H+V	64QAM	H	64/0	21.41
3	100	24900.00	Low	H+V	BPSK	V	64/0	23.16
		24999.96	Mid	H+V	QPSK	H	64/0	**23.59**
		25100.04	High	H+V	BPSK	H	64/0	22.90
		24999.96	Mid	H+V	BPSK	H	64/0	23.56
		24999.96	Mid	H+V	16QAM	H	64/0	22.55
		24999.96	Mid	H+V	64QAM	H	64/0	20.54
4	100	24949.98	Low	H+V	BPSK	V	64/0	23.38
		24999.90	Mid	H+V	BPSK	H	64/0	**23.62**
		25050.06	High	H+V	BPSK	H	64/0	22.67
		24999.90	Mid	H+V	QPSK	H	64/0	23.61
		24999.90	Mid	H+V	16QAM	H	64/0	22.53
		24999.90	Mid	H+V	64QAM	H	64/0	20.46

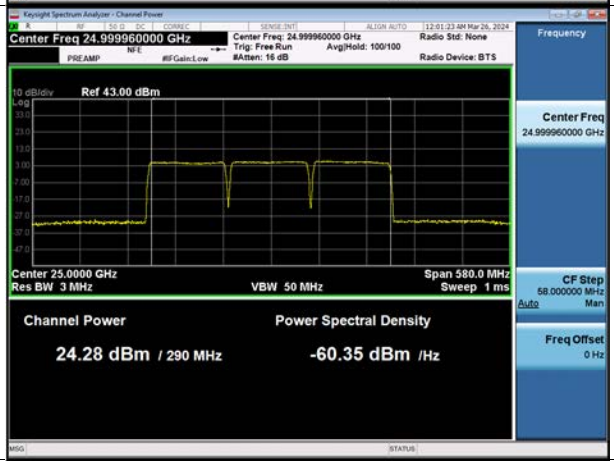
Plot Data of EIRP

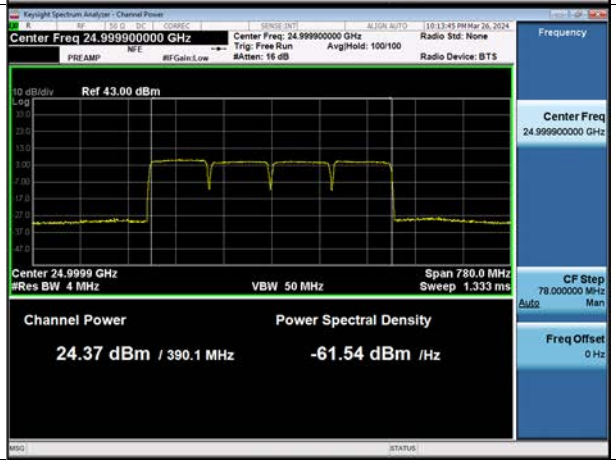
n258b Band Antenna 0 (K patch)

SISO

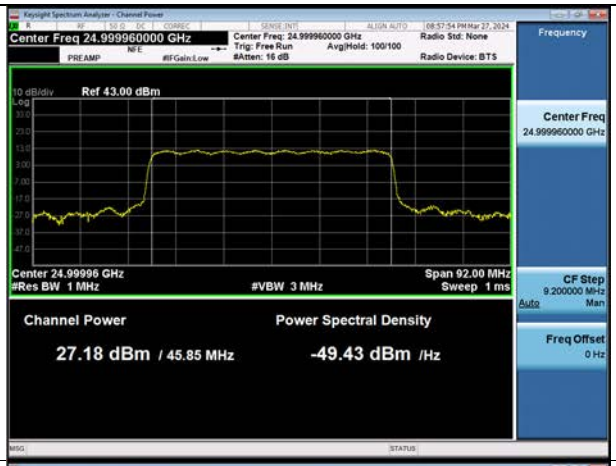


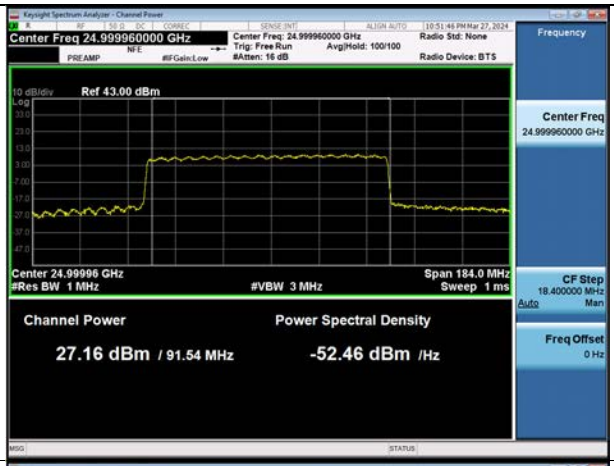


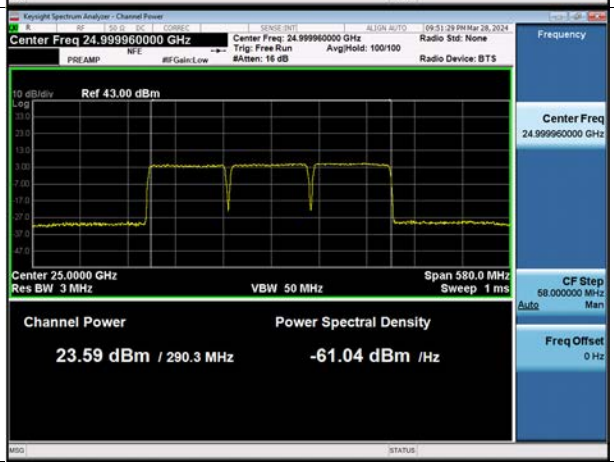




SISO Dual







Tabular Data of EIRP

n260 Band Antenna 0 (K patch)

SISO

CCs active	BW [MHz]	Frequency [MHz]	Channel	Beam Pol	Modulation	Ant. Pol	RB Size/Offset	EIRP [dBm]
1	50	37025.04	Low	H	BPSK	V	32/0	**28.90**
		38499.96	Mid	V	BPSK	H	32/0	28.63
		39975.00	High	V	BPSK	V	32/0	27.42
		37025.04	Low	H	QPSK	V	32/0	28.34
		37025.04	Low	H	16QAM	V	32/0	28.40
		37025.04	Low	H	64QAM	V	32/0	24.92
1	100	37050.00	Low	H	BPSK	V	64/0	27.99
		38499.96	Mid	V	BPSK	H	64/0	**28.17**
		39949.92	High	V	BPSK	V	64/0	27.88
		38499.96	Mid	V	QPSK	H	64/0	28.15
		38499.96	Mid	V	16QAM	H	64/0	27.59
		38499.96	Mid	V	64QAM	H	64/0	24.78
2	100	37099.98	Low	H	BPSK	V	64/0	27.24
		38500.02	Mid	V	BPSK	H	64/0	**28.12**
		39899.94	High	V	BPSK	V	64/0	27.07
		38500.02	Mid	V	QPSK	H	64/0	28.04
		38500.02	Mid	V	16QAM	H	64/0	27.61
		38500.02	Mid	V	64QAM	H	64/0	23.85
3	100	37149.96	Low	H	BPSK	V	64/0	24.98
		38499.96	Mid	V	BPSK	H	64/0	**25.80**
		39849.96	High	V	BPSK	V	64/0	24.48
		38499.96	Mid	V	QPSK	V	64/0	25.02
		38499.96	Mid	V	16QAM	V	64/0	24.15
		38499.96	Mid	V	64QAM	V	64/0	22.13
4	100	37199.94	Low	H	BPSK	V	64/0	**25.24**
		38499.90	Mid	V	BPSK	H	64/0	25.10
		39799.98	High	V	BPSK	V	64/0	24.55
		37199.94	Low	H	QPSK	V	64/0	24.99
		37199.94	Low	H	16QAM	V	64/0	23.98
		37199.94	Low	H	64QAM	V	64/0	21.92

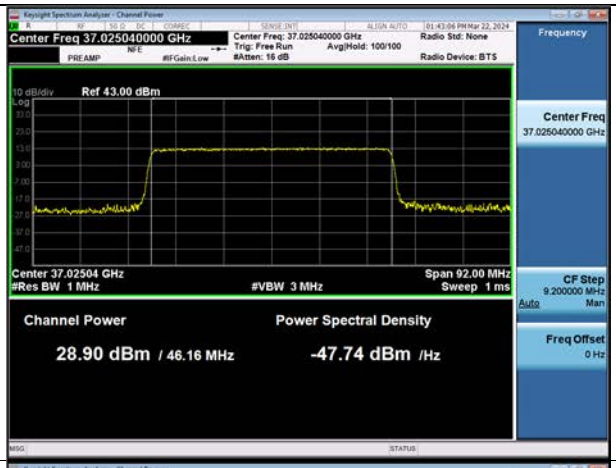
SISO Dual

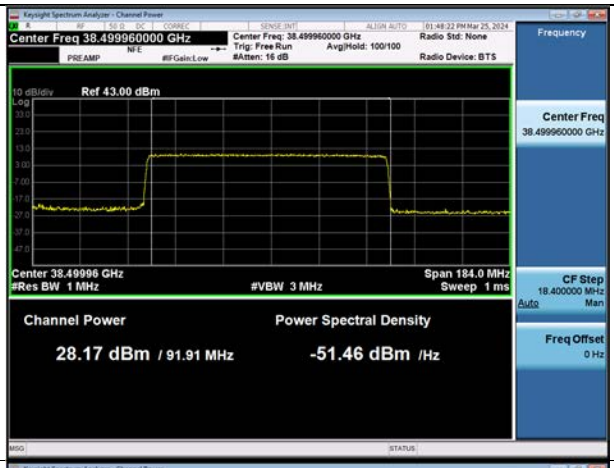
CCs active	BW [MHz]	Frequency [MHz]	Channel	Beam Pol	Modulation	Ant. Pol	RB Size/Offset	EIRP [dBm]
1	50	37025.04	Low	H+V	BPSK	H	1/16	29.00
		38499.96	Mid	H+V	BPSK	H	1/16	**30.61**
		39975.00	High	H+V	BPSK	V	1/16	28.34
		38499.96	Mid	H+V	QPSK	H	1/16	30.37
		38499.96	Mid	H+V	16QAM	H	1/16	30.30
		38499.96	Mid	H+V	64QAM	H	1/16	27.43
1	100	37050.00	Low	H+V	16QAM	H	1/33	**29.01**
		38499.96	Mid	H+V	BPSK	H	64/0	28.56
		39949.92	High	H+V	BPSK	V	1/33	27.81
		37050.00	Low	H+V	BPSK	H	1/33	28.58
		37050.00	Low	H+V	QPSK	H	1/33	28.91
		37050.00	Low	H+V	64QAM	H	64/0	24.56
2	100	37099.98	Low	H+V	BPSK	H	64/0	27.15
		38500.02	Mid	H+V	QPSK	H	64/0	**28.93**
		39899.94	High	H+V	BPSK	V	64/0	27.21
		38500.02	Mid	H+V	BPSK	H	64/0	28.67
		38500.02	Mid	H+V	16QAM	H	64/0	28.43
		38500.02	Mid	H+V	64QAM	H	64/0	25.04
3	100	37149.96	Low	H+V	BPSK	H	64/0	23.82
		38499.96	Mid	H+V	QPSK	H	64/0	**25.85**
		39849.96	High	H+V	BPSK	V	64/0	24.77
		38499.96	Mid	H+V	BPSK	H	64/0	25.52
		38499.96	Mid	H+V	16QAM	H	64/0	24.78
		38499.96	Mid	H+V	64QAM	H	64/0	22.80
4	100	37199.94	Low	H+V	BPSK	H	64/0	24.66
		38499.90	Mid	H+V	QPSK	H	64/0	**25.84**
		39799.98	High	H+V	BPSK	V	64/0	25.00
		38499.90	Mid	H+V	BPSK	H	64/0	25.82
		38499.90	Mid	H+V	16QAM	H	64/0	24.86
		38499.90	Mid	H+V	64QAM	H	64/0	22.88

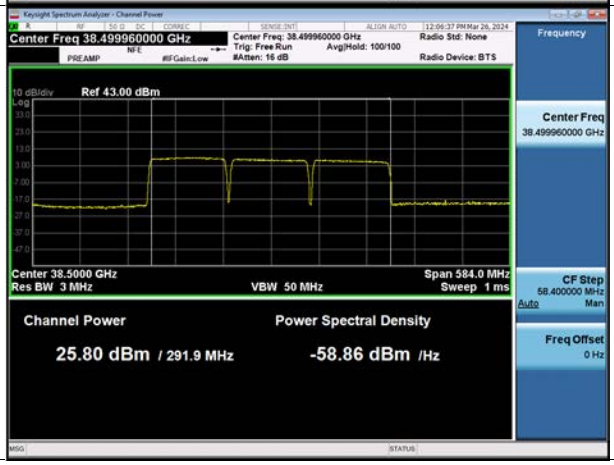
Plot Data of EIRP

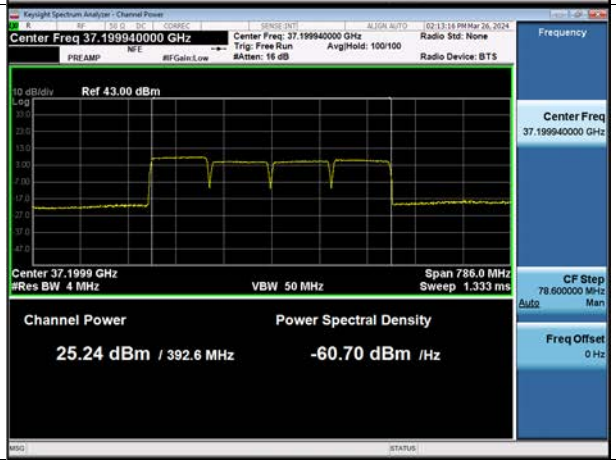
n260 Band Antenna 0 (K patch)

SISO

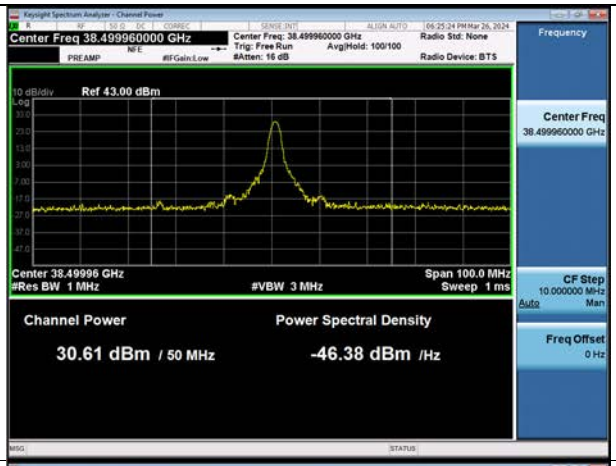


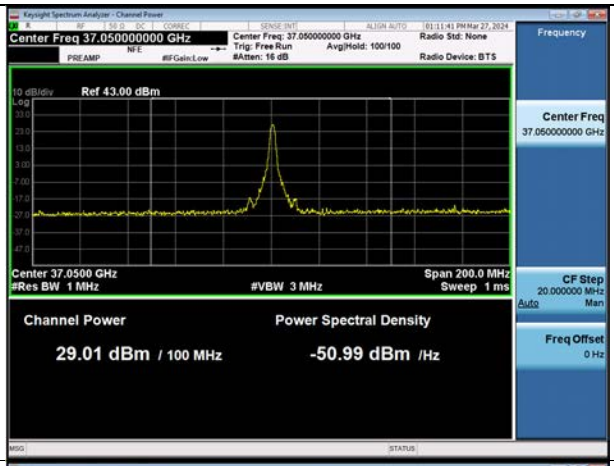


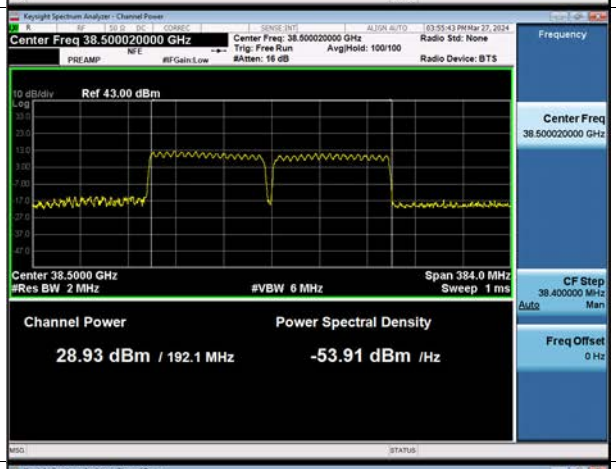


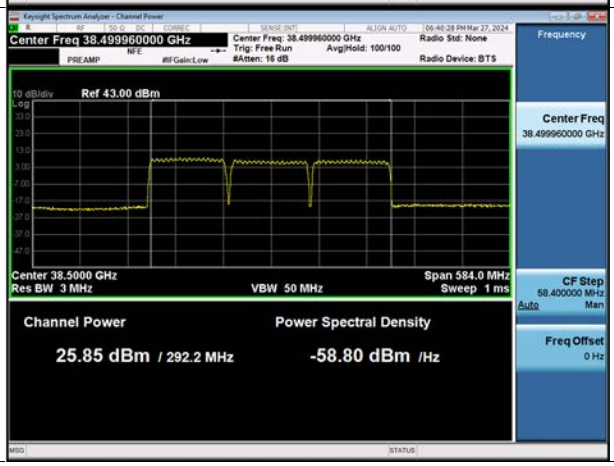


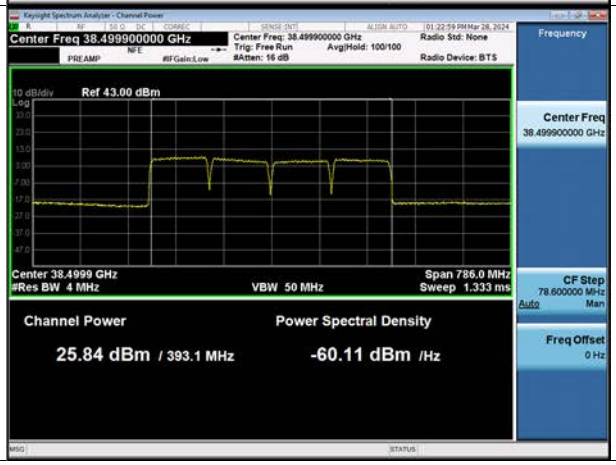
SISO Dual











Tabular Data of EIRP

n261 Band Antenna 0 (K patch)

SISO

CCs active	BW [MHz]	Frequency [MHz]	Channel	Beam Pol	Modulation	Ant. Pol	RB Size/Offset	EIRP [dBm]
1	50	27525.00	Low	V	BPSK	H	1/16	28.57
		27924.96	Mid	V	BPSK	H	1/16	29.49
		28324.92	High	V	BPSK	H	1/16	**30.45**
		28324.92	High	V	QPSK	H	1/16	30.37
		28324.92	High	V	16QAM	H	1/16	29.95
		28324.92	High	V	64QAM	H	1/16	26.90
1	100	27550.08	Low	V	BPSK	H	1/33	28.56
		27924.96	Mid	V	BPSK	H	1/33	29.57
		28299.96	High	V	QPSK	H	1/33	**30.48**
		28299.96	High	V	BPSK	H	1/33	30.42
		28299.96	High	V	16QAM	H	1/33	29.97
		28299.96	High	V	64QAM	H	1/33	26.85
2	100	27600.06	Low	V	BPSK	H	64/0	27.61
		27925.02	Mid	V	BPSK	H	64/0	28.41
		28249.98	High	V	BPSK	H	64/0	**29.25**
		28249.98	High	V	QPSK	H	64/0	29.13
		28249.98	High	V	16QAM	H	64/0	28.69
		28249.98	High	V	64QAM	H	64/0	25.17
3	100	27650.04	Low	V	BPSK	H	64/0	25.32
		27924.96	Mid	V	BPSK	H	64/0	26.02
		28200.00	High	V	QPSK	H	64/0	**26.84**
		28200.00	High	V	BPSK	H	64/0	26.57
		28200.00	High	V	16QAM	H	64/0	25.71
		28200.00	High	V	64QAM	H	64/0	23.71
4	100	27700.02	Low	V	BPSK	H	64/0	25.82
		27924.90	Mid	V	BPSK	H	64/0	25.97
		28150.02	High	V	QPSK	H	64/0	**26.77**
		28150.02	High	V	BPSK	H	64/0	26.69
		28150.02	High	V	16QAM	H	64/0	25.72
		28150.02	High	V	64QAM	H	64/0	23.62

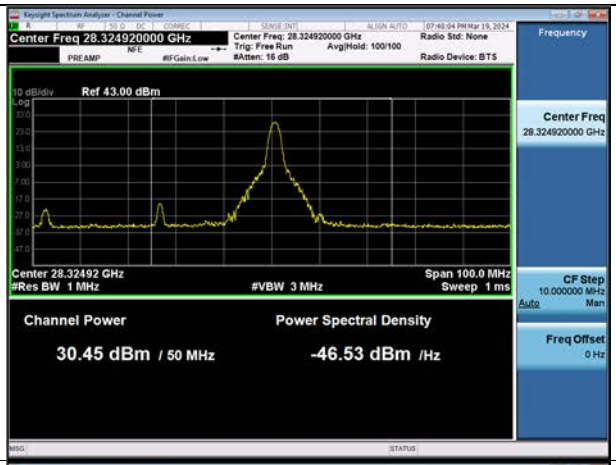
SISO Dual

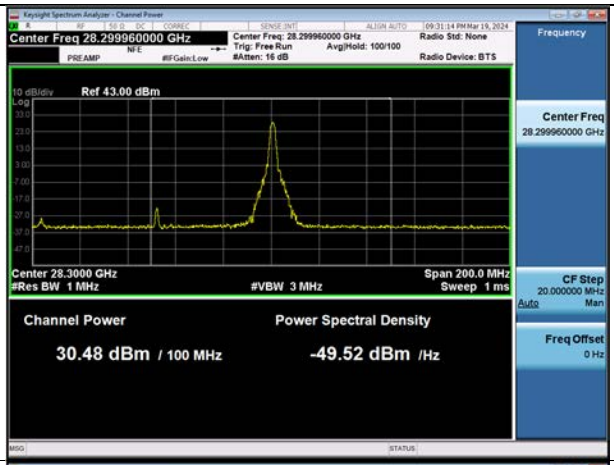
CCs active	BW [MHz]	Frequency [MHz]	Channel	Beam Pol	Modulation	Ant. Pol	RB Size/Offset	EIRP [dBm]
1	50	27525.00	Low	H+V	BPSK	H	1/11	**30.42**
		27924.96	Mid	H+V	BPSK	H	1/11	29.57
		28324.92	High	H+V	BPSK	H	32/0	28.13
		27525.00	Low	H+V	QPSK	H	1/11	30.04
		27525.00	Low	H+V	16QAM	H	1/11	29.58
		27525.00	Low	H+V	64QAM	H	1/11	26.32
1	100	27550.08	Low	H+V	BPSK	H	64/0	28.82
		27924.96	Mid	H+V	BPSK	H	64/0	**29.39**
		28299.96	High	H+V	BPSK	H	64/0	28.55
		27924.96	Mid	H+V	QPSK	H	64/0	29.25
		27924.96	Mid	H+V	16QAM	H	64/0	28.77
		27924.96	Mid	H+V	64QAM	H	64/0	26.17
2	100	27600.06	Low	H+V	BPSK	H	64/0	**28.75**
		27925.02	Mid	H+V	BPSK	H	64/0	28.62
		28249.98	High	H+V	BPSK	H	64/0	27.59
		27600.06	Low	H+V	QPSK	H	64/0	28.21
		27600.06	Low	H+V	16QAM	H	64/0	27.73
		27600.06	Low	H+V	64QAM	H	64/0	24.10
3	100	27650.04	Low	H+V	BPSK	H	64/0	25.87
		27924.96	Mid	H+V	QPSK	H	64/0	**25.96**
		28200.00	High	H+V	BPSK	H	64/0	25.19
		27924.96	Mid	H+V	BPSK	H	64/0	25.91
		27924.96	Mid	H+V	16QAM	H	64/0	24.88
		27924.96	Mid	H+V	64QAM	H	64/0	22.95
4	100	27700.02	Low	H+V	BPSK	H	64/0	26.24
		27924.90	Mid	H+V	BPSK	H	64/0	**26.64**
		28150.02	High	H+V	BPSK	H	64/0	25.60
		27924.90	Mid	H+V	QPSK	H	64/0	26.46
		27924.90	Mid	H+V	16QAM	H	64/0	25.29
		27924.90	Mid	H+V	64QAM	H	64/0	23.23

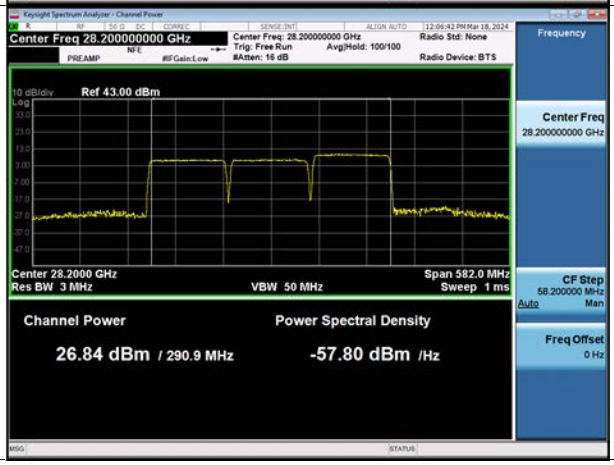
Plot Data of EIRP

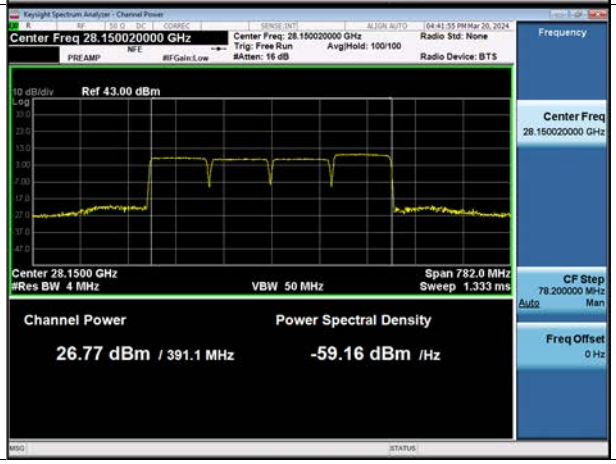
n261 Band Antenna 0 (K patch)

SISO

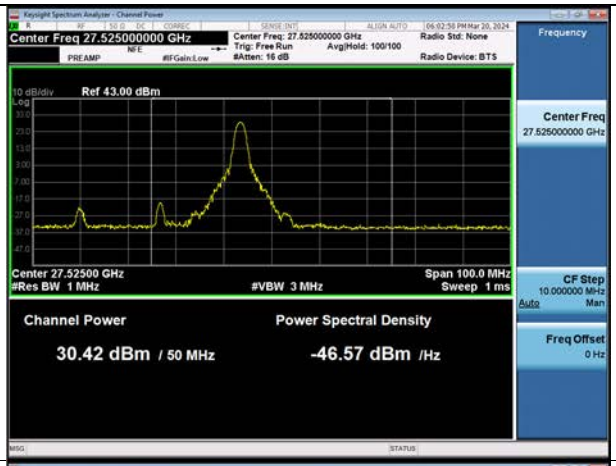


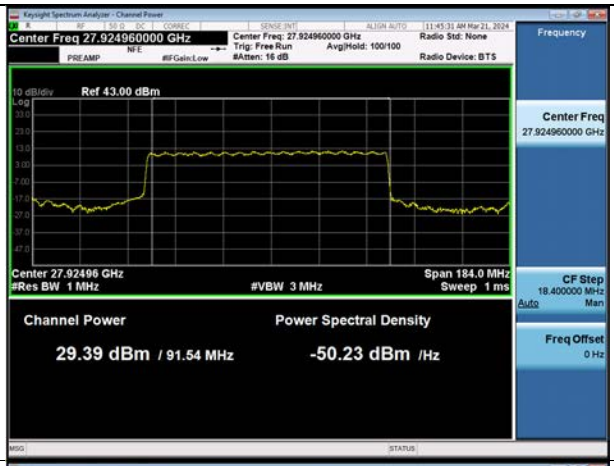


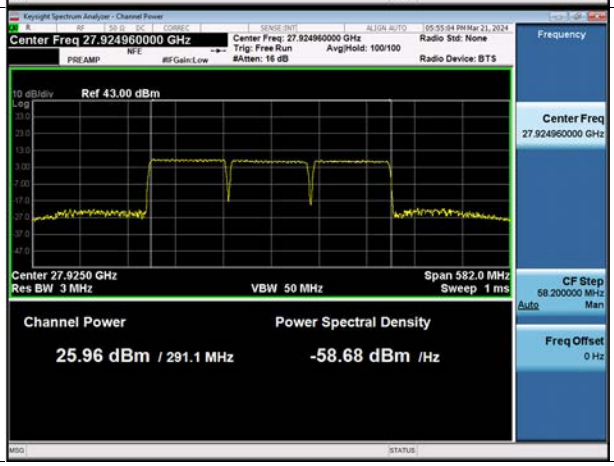




SISO Dual







5.3. BAND EDGE

Test Overview

All out of band emissions are measured in a radiated setup while the EUT is operating at maximum power, and at the appropriate frequencies. All modulations were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is -13dBm/1MHz. However, in the bands immediately outside and adjacent to the licensee's frequency block, having a bandwidth equal to 10 percent of the channel bandwidth, the conductive power or the total radiated power of any emission shall be －5 dBm/MHz or lower.

FCC Rules

Test Requirements:

§ 30.203 Emission limits.

(a) The conductive power or the total radiated power of any emission outside a licensee's frequency block shall be －13 dBm/MHz or lower. However, in the bands immediately outside and adjacent to the licensee's frequency block, having a bandwidth equal to 10 percent of the channel bandwidth, the conductive power or the total radiated power of any emission shall be －5 dBm/MHz or lower.

(b)(1) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater.

(2) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges as the design permits.

(3) The measurements of emission power can be expressed in peak or average values.

Test Procedures:

The measurement is performed in accordance with Section 5.7.3 of ANSI C63.26.

5.7.3 Out-of-band unwanted emissions measurements

a) Set the spectrum analyzer center frequency to the block, band, or channel edge frequency.

b) Set the span wide enough to capture the fundamental emission closest to the authorized block or band edge, and to include all modulation products that spill into the immediately adjacent frequency band. In some cases, it may be possible to set the center frequency and span so as to encompass the fundamental emission and the unwanted out-of-band (band-edge) emissions on either side of the authorized block, band, or channel. This can be accomplished with a single (slow) sweep, if adequate overload protection and sufficient dynamic range can be maintained.

c) Set the number of points in sweep ≥ 2 × span / RBW.

d) Sweep time should be auto for peak detection. For rms detection the sweep time should be set as follows:

1), 2) Omitted

3) If the device cannot be configured to transmit continuously (duty cycle < 98%) and a free running sweep must be used, set the sweep time so that the averaging is performed over multiple on/off cycles by setting the sweep time > (number of points in sweep) × (transmitter period) (i.e., the transmit on-time + the off-time). The spectrum analyzer readings shall subsequently be corrected by [10 log (1/duty cycle)]. This assumes that the transmission period and duty cycle is relatively constant (duty cycle variation $\leq \pm 2\%$).

4) Omitted

e) The test report shall include the plots of the measuring instrument display and the measured data.

- The TRP measurement is performed in accordance with Section 4.4.2.4 of KDB 842590 v01r02 (2021-04).

4.4.2.4 Spherical Grid Method

a) Measure the antenna dimensions, i.e., depth (d), width (w), and height (h) (see Figure A.1 in Appendix A). If the antenna dimensions are not accessible use the mechanical dimensions of the entire device.

b) Calculate the spherical and cylindrical diameters (D and Dcyl) using Equations (A.1) and (A.2) in Appendix A in KDB 842590 v01r02.

c) For the highest frequency (smallest wavelength) of the frequency band measured, calculate the reference angular steps $\Delta\theta$ref and $\Delta\theta$ref using Equations (A.3) and (A.4) in Appendix A in KDB 842590 v01r02.

d) Set the grid spatial sampling step $\Delta\theta \leq \Delta\theta$ref for the vertical angle and $\Delta\theta \leq \Delta\theta$ref for the horizontal angle.

e) For each emission frequency, measure the total EIRP (sum of two orthogonal polarizations) on the selected grid.

f) For each emission frequency, calculate the TRP using weighted angular average value using numerical integration as described in Appendix B in KDB 842590 v01r02.

g) Compare measured TRP with the applicable TRP limit to make a pass/fail decision.

Test Results:

Tabular Data of Band Edge

n258a Band Antenna 0 (K patch)

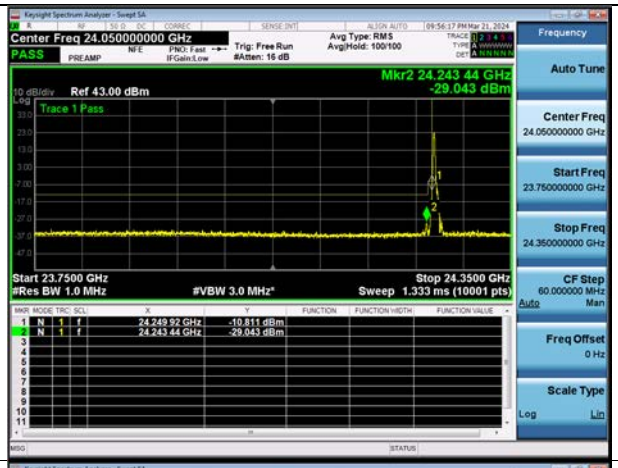
CCs active	BW [MHz]	Frequency [MHz]	Mode	Channel	Beam Pol	Modulation	Ant. Pol	RB Size/Offset	Result [dBm]	Limit [dBm]	Margin [dB]
1	50	24275.04	SISO Dual	Low	H+V	16QAM	H	1/0	-10.811	-5	5.8
		24275.04	SISO Dual	Low	H+V	BPSK	H	1/0	-26.001	-13	13.0
		24275.04	SISO Dual	Low	H+V	QPSK	H	32/0	-16.408	-5	11.4
		24275.04	SISO Dual	Low	H+V	QPSK	H	32/0	-17.432	-13	4.4
		24424.92	SISO Dual	High	H+V	64QAM	H	1/31	-13.732	-5	8.7
		24424.92	SISO Dual	High	H+V	BPSK	H	1/31	-27.592	-13	14.6
		24424.92	SISO Dual	High	H+V	16QAM	H	32/0	-14.402	-5	9.4
		24424.92	SISO Dual	High	H+V	QPSK	H	32/0	-15.181	-13	2.2
1	100	24300.00	SISO	Low	V	QPSK	H	1/0	-10.732	-5	5.7
		24300.00	SISO	Low	V	64QAM	H	1/0	-32.724	-13	19.7
		24300.00	SISO Dual	Low	H+V	QPSK	H	64/0	-17.86	-5	12.9
		24300.00	SISO Dual	Low	H+V	QPSK	H	64/0	-19.509	-13	6.5
		24399.96	SISO	High	V	BPSK	V	1/65	-13.908	-5	8.9
		24399.96	SISO	High	V	64QAM	V	1/65	-32.984	-13	20.0
		24399.96	SISO Dual	High	H+V	QPSK	H	64/0	-16.735	-5	11.7
		24399.96	SISO Dual	High	H+V	QPSK	H	64/0	-17.751	-13	4.8
2	100	24350.04	SISO Dual	Low	H+V	64QAM	H	1/0	-17.757	-5	12.8
		24350.04	SISO Dual	Low	H+V	64QAM	H	1/0	-17.664	-13	4.7
		24350.04	SISO Dual	Low	H+V	QPSK	H	64/0	-23.492	-5	18.5
		24350.04	SISO Dual	Low	H+V	QPSK	H	64/0	-14.824	-13	1.8※
		24350.04	SISO Dual	High	H+V	BPSK	H	1/65	-17.683	-5	12.7
		24350.04	SISO	High	V	16QAM	V	1/65	-23.666	-13	10.7
		24350.04	SISO Dual	High	H+V	QPSK	H	64/0	-22.146	-5	17.1
		24350.04	SISO Dual	High	H+V	BPSK	H	64/0	-19.307	-13	6.3

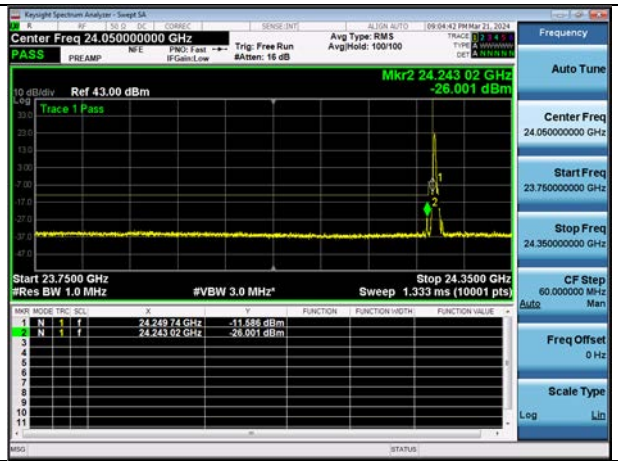
※ **Note.** TRP: -23.62 dBm

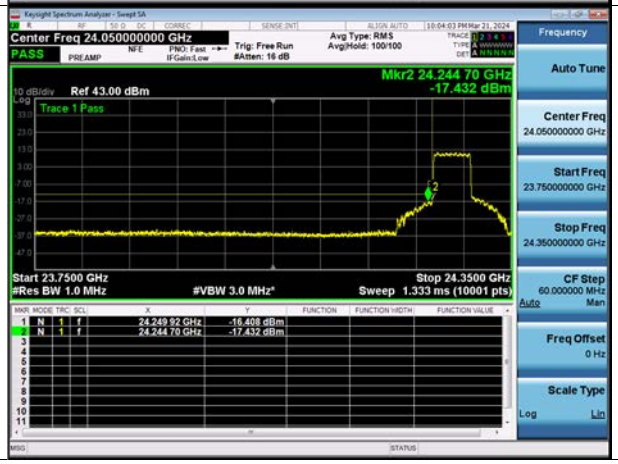
Plot data of Band Edge

n258a Band Antenna 0 (K patch)

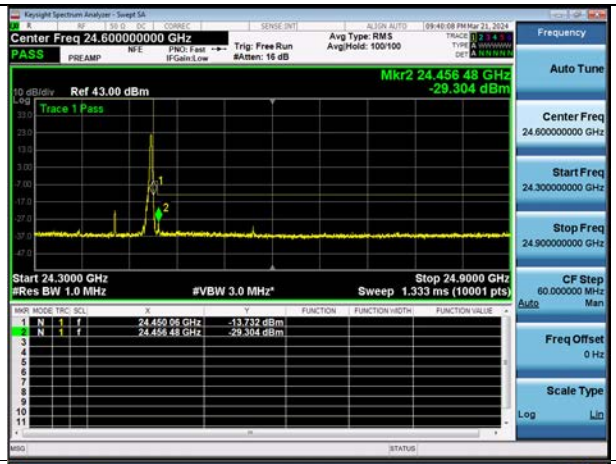
50 MHz, 1CC, Low

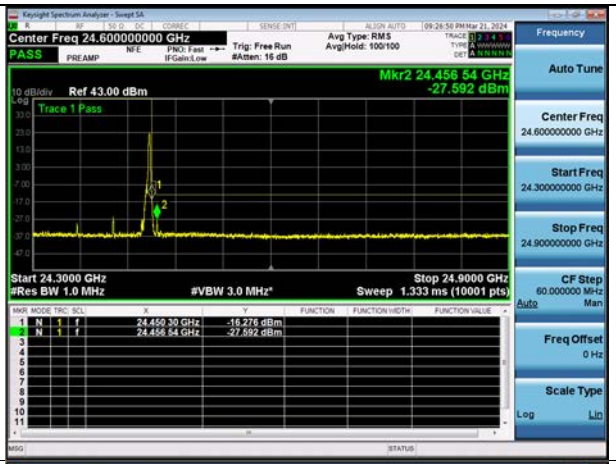




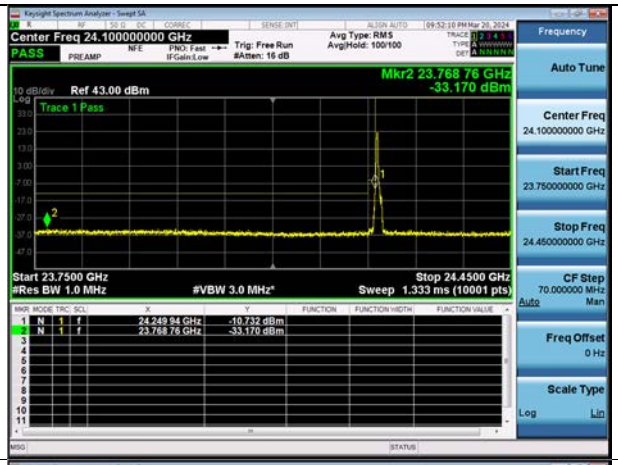


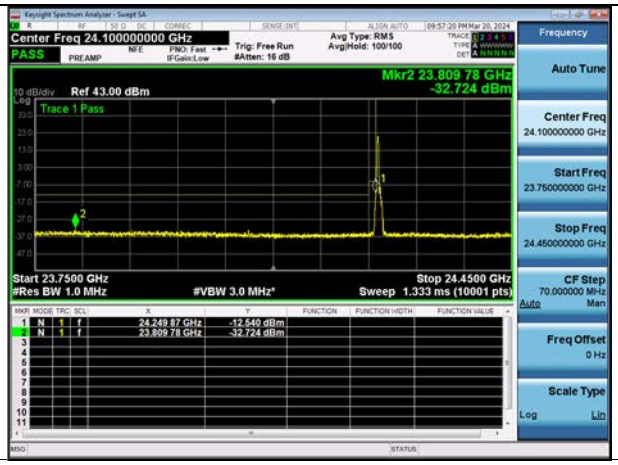
50 MHz, 1CC, High

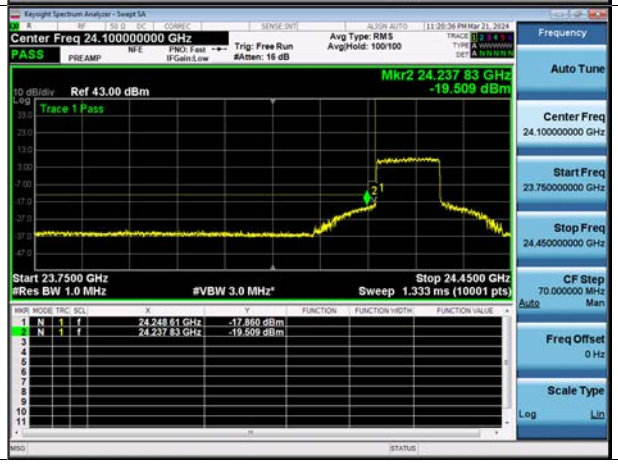




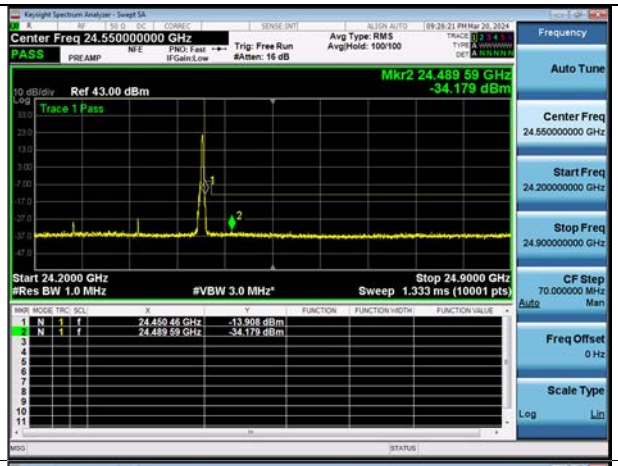
100 MHz, 1CC, Low

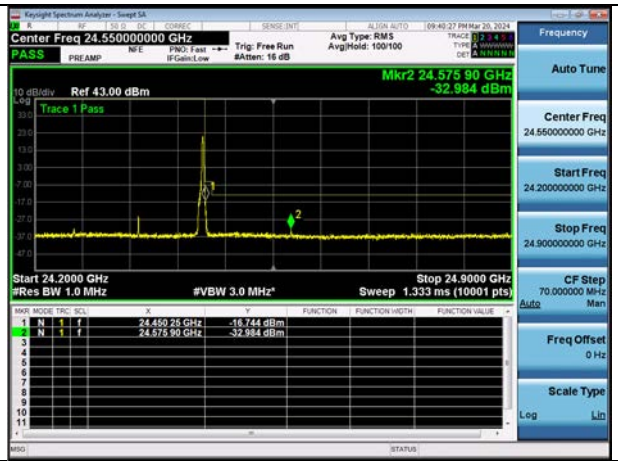




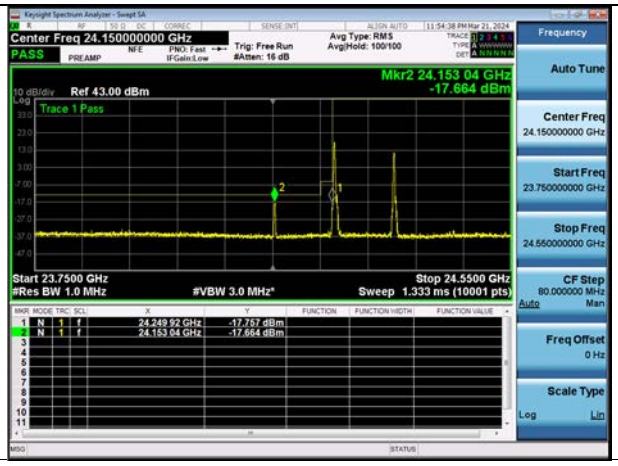


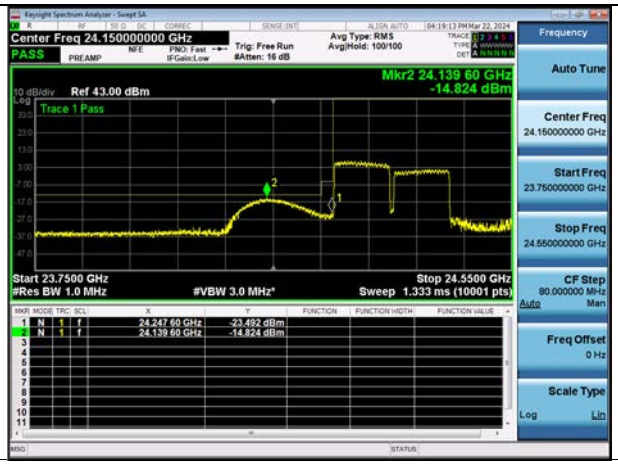
100 MHz, 1CC, High



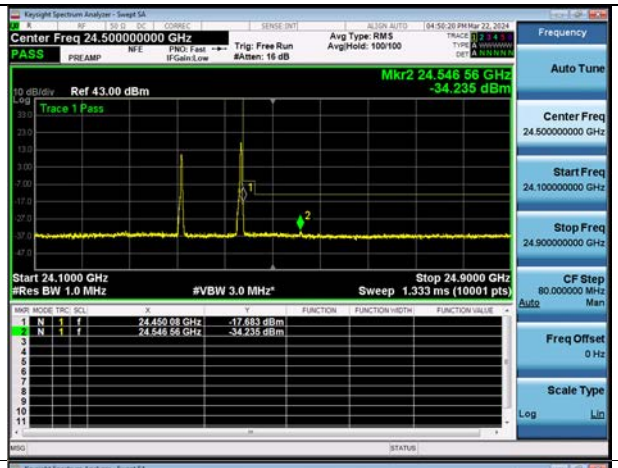


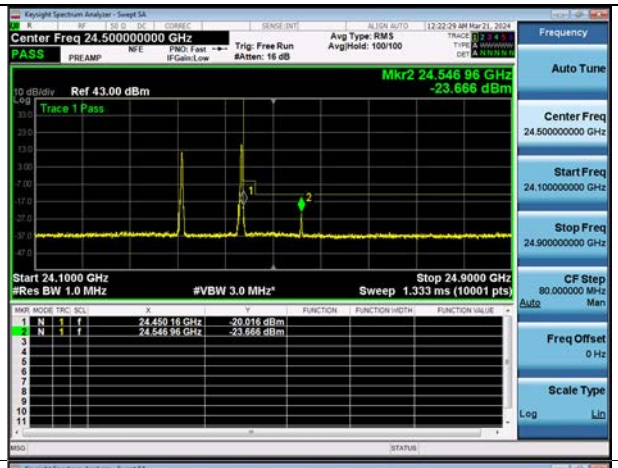
100 MHz, 2CC, Low

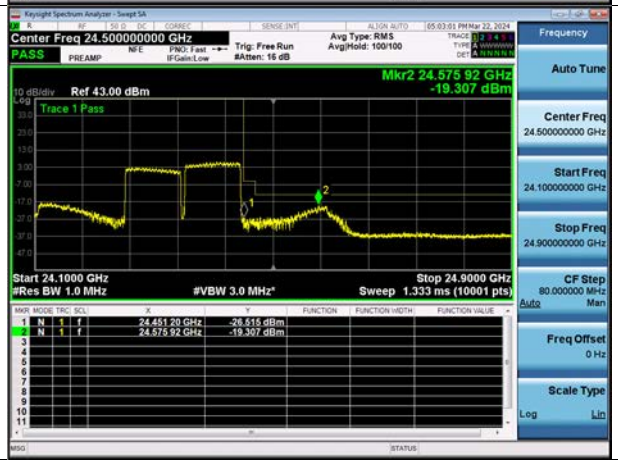




100 MHz, 2CC, High







Tabular Data of Band Edge

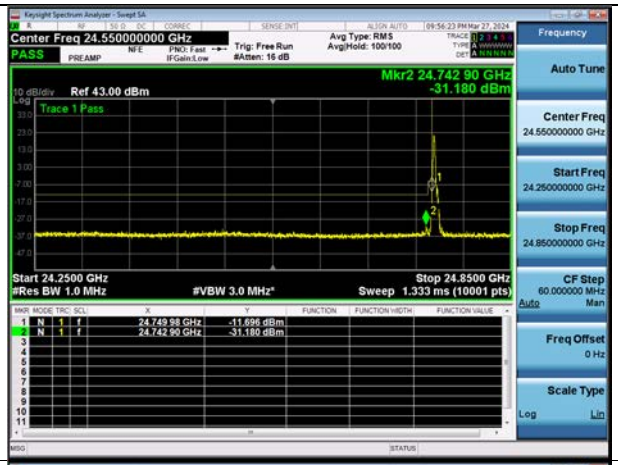
n258b Band Antenna 0 (K patch)

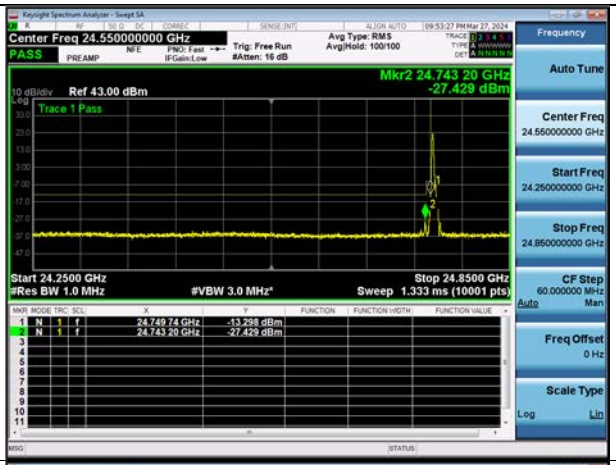
CCs active	BW [MHz]	Frequency [MHz]	Mode	Channel	Beam Pol	Modulation	Ant. Pol	RB Size/Offset	Result [dBm]	Limit [dBm]	Margin [dB]
1	50	24775.08	SISO Dual	Low	H+V	64QAM	V	1/0	-11.696	-5	6.7
		24775.08	SISO Dual	Low	H+V	QPSK	V	1/0	-27.429	-13	14.4
		24775.08	SISO Dual	Low	H+V	16QAM	V	32/0	-15.391	-5	10.4
		24775.08	SISO Dual	Low	H+V	QPSK	V	32/0	-16.773	-13	3.8
		25224.96	SISO	High	V	64QAM	H	1/31	-12.608	-5	7.6
		25224.96	SISO	High	V	16QAM	H	1/31	-26.222	-13	13.2
		25224.96	SISO Dual	High	H+V	QPSK	H	32/0	-15.55	-5	10.6
		25224.96	SISO Dual	High	H+V	QPSK	H	32/0	-16.78	-13	3.8
1	100	24800.04	SISO	Low	V	64QAM	V	1/0	-12.979	-5	8.0
		24800.04	SISO Dual	Low	H+V	BPSK	V	1/0	-33.18	-13	20.2
		24800.04	SISO Dual	Low	H+V	QPSK	V	64/0	-18.993	-5	14.0
		24800.04	SISO Dual	Low	H+V	QPSK	V	64/0	-19.776	-13	6.8
		25200.00	SISO Dual	High	H+V	BPSK	H	1/65	-12.709	-5	7.7
		25200.00	SISO	High	V	64QAM	H	1/65	-29.78	-13	16.8
		25200.00	SISO Dual	High	H+V	QPSK	H	64/0	-19.277	-5	14.3
		25200.00	SISO Dual	High	H+V	QPSK	H	64/0	-20.105	-13	7.1
2	100	24850.02	SISO	Low	V	64QAM	V	1/0	-17.675	-5	12.7
		24850.02	SISO Dual	Low	H+V	64QAM	V	1/0	-19.76	-13	6.8
		24850.02	SISO Dual	Low	H+V	QPSK	V	64/0	-22.503	-5	17.5
		24850.02	SISO Dual	Low	H+V	BPSK	V	64/0	-15.463	-13	2.5
		25150.02	SISO	High	V	QPSK	H	1/65	-17.714	-5	12.7
		25150.02	SISO Dual	High	H+V	BPSK	H	1/65	-24.409	-13	11.4
		25150.02	SISO Dual	High	H+V	QPSK	H	64/0	-22.156	-5	17.2
		25150.02	SISO Dual	High	H+V	BPSK	H	64/0	-17.945	-13	4.9
3	100	24900.00	SISO Dual	Low	H+V	64QAM	V	1/0	-18.034	-5	13.0
		24900.00	SISO Dual	Low	H+V	QPSK	V	1/0	-19.863	-13	6.9
		24900.00	SISO Dual	Low	H+V	QPSK	V	64/0	-30.075	-5	25.1
		24900.00	SISO	Low	V	QPSK	V	64/0	-29.05	-13	16.1
		25100.04	SISO Dual	High	H+V	64QAM	H	1/65	-21.232	-5	16.2
		25100.04	SISO	High	V	QPSK	H	1/65	-27.469	-13	14.5
		25100.04	SISO	High	V	QPSK	H	64/0	-25.391	-5	20.4
		25100.04	SISO Dual	High	H+V	QPSK	H	64/0	-29.014	-13	16.0
4	100	24949.98	SISO Dual	Low	H+V	QPSK	V	1/0	-17.592	-5	12.6
		24949.98	SISO Dual	Low	H+V	BPSK	V	1/0	-20.74	-13	7.7
		24949.98	SISO Dual	Low	H+V	BPSK	V	64/0	-29.297	-5	24.3
		24949.98	SISO Dual	Low	H+V	QPSK	V	64/0	-27.205	-13	14.2
		25050.06	SISO	High	V	BPSK	H	1/65	-21.01	-5	16.0
		25050.06	SISO Dual	High	H+V	64QAM	H	1/65	-26.554	-13	13.6
		25050.06	SISO Dual	High	H+V	QPSK	H	64/0	-28.509	-5	23.5
		25050.06	SISO	High	V	BPSK	H	64/0	-25.679	-13	12.7

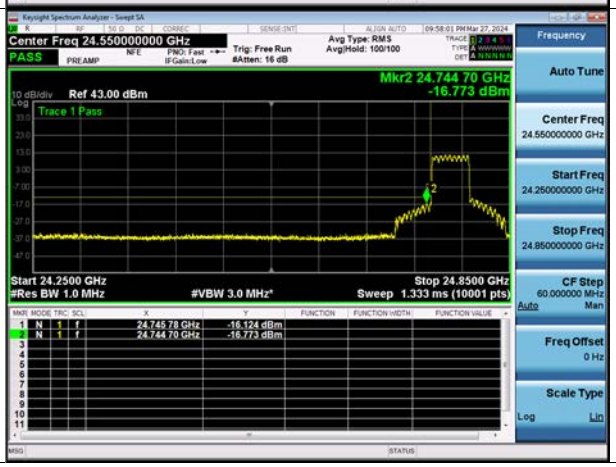
Plot data of Band Edge

n258b Band Antenna 0 (K patch)

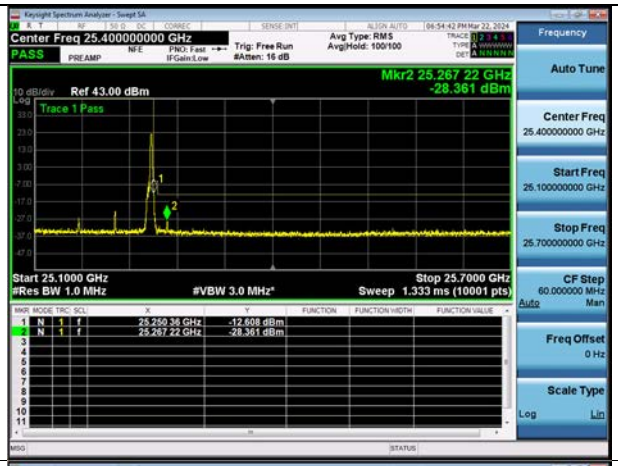
50 MHz, 1CC, Low



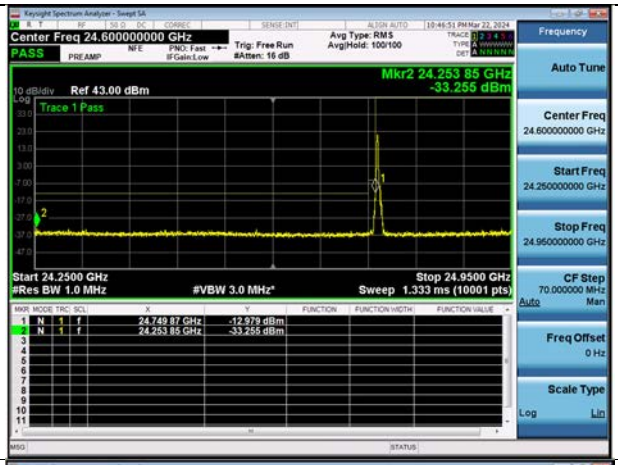


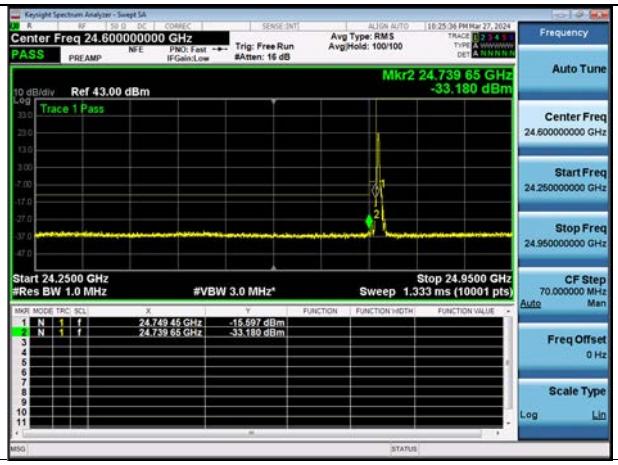


50 MHz, 1CC, High

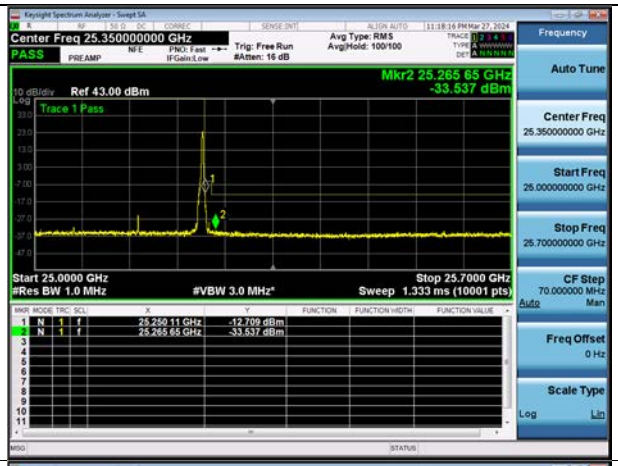


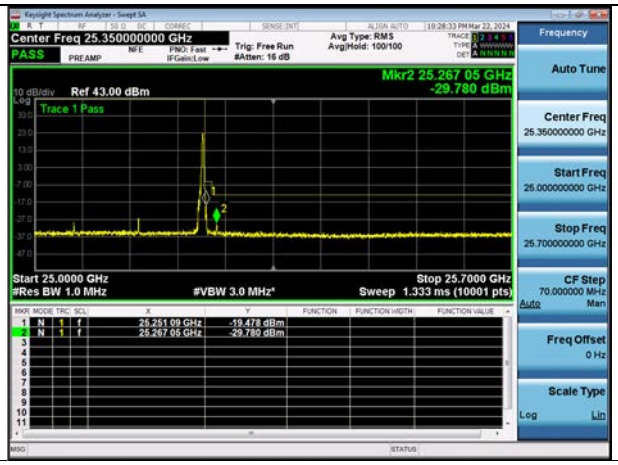
100 MHz, 1CC, Low

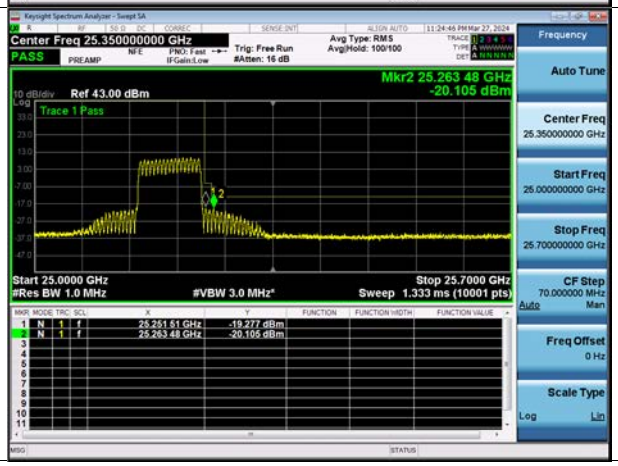




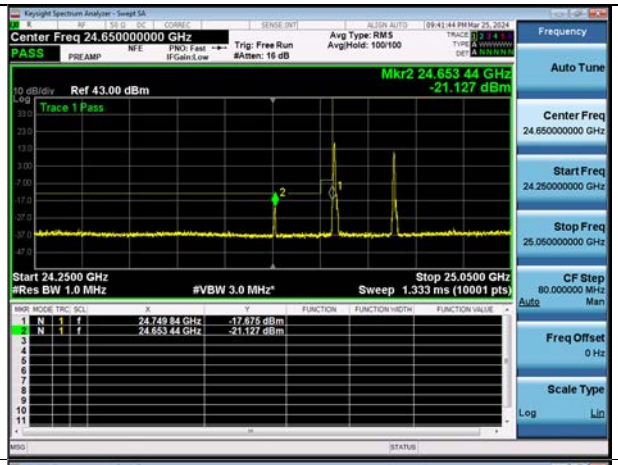
100 MHz, 1CC, High

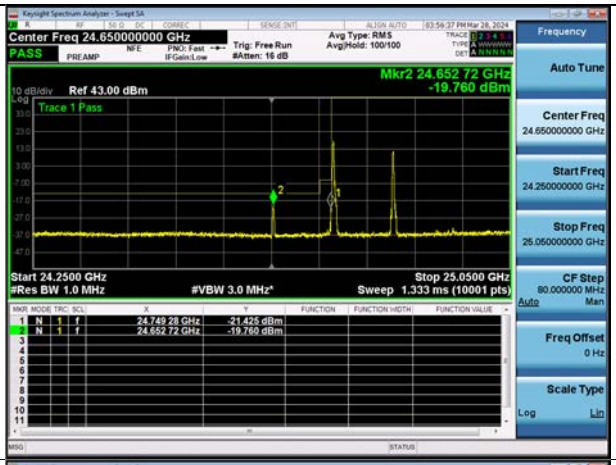


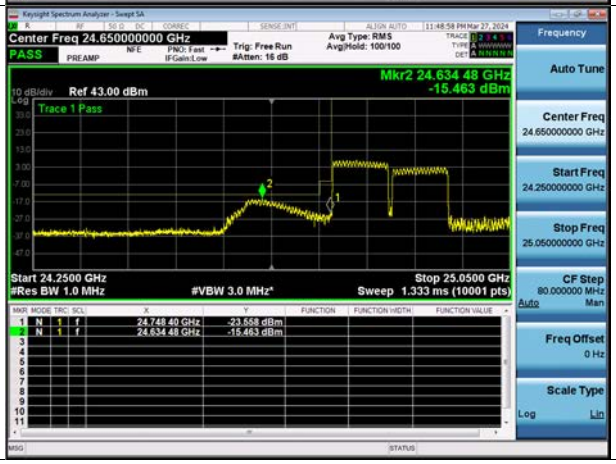




100 MHz, 2CC, Low







100 MHz, 2CC, High