

TEST REPORT

FCC mmWave Test for SM-F766U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2504-FC001-R2

DATE OF ISSUE
May 20, 2025

Tested by
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TEST REPORT

REPORT NO.

HCT-RF-2504-FC001-R2

DATE OF ISSUE

May 20, 2025

Additional Model

SM-F766U1

Applicant

SAMSUNG Electronics Co., Ltd.
129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

Product Name

Mobile Phone

Model Name

SM-F766U

FCC ID

A3LSMF766U

Date of Test

March 17, 2025 ~ April 22, 2025

FCC Classification

Part 30 Mobile Transmitter (5GM)

Test Standard Used

ANSI C63.26-2015, KDB 971168 D01 v03r01, KDB 842590 D01 V01r03
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 22, 2025	Initial Release
1	May 8, 2025	Revised the section 2.1, 3, 3.5
2	May 20, 2025	Revised the Power Supply Voltage. (DC 3.88 V → DC 3.90 V)

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).

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1. EUT DESCRIPTION

Model	SM-F766U
Additional Model	SM-F766U1
EUT Type	Mobile Phone
Power Supply	DC 3.90 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: R3CY209A7ZP, R3CY30S8YAD(for n261 SISO Dual/MIMO)

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	0.675	28.29	46M2G7D	BPSK
SISO	K patch	50	1	24250 - 24450	0.724	28.60	46M3G7D	QPSK
SISO	K patch	50	1	24250 - 24450	0.372	25.71	46M0W7D	16QAM
SISO	K patch	50	1	24250 - 24450	0.209	23.21	45M9W7D	64QAM
SISO Dual	K patch	50	1	24250 - 24450	0.634	28.02	46M1G7D	BPSK
SISO Dual	K patch	50	1	24250 - 24450	0.601	27.79	46M3G7D	QPSK
SISO Dual	K patch	50	1	24250 - 24450	0.476	26.78	46M1W7D	16QAM
SISO Dual	K patch	50	1	24250 - 24450	0.348	25.41	45M9W7D	64QAM
SISO	K patch	100	1	24250 - 24450	0.587	27.69	91M1G7D	BPSK
SISO	K patch	100	1	24250 - 24450	0.630	27.99	94M3G7D	QPSK
SISO	K patch	100	1	24250 - 24450	0.271	24.33	94M2W7D	16QAM
SISO	K patch	100	1	24250 - 24450	0.209	23.20	93M8W7D	64QAM
SISO Dual	K patch	100	1	24250 - 24450	0.641	28.07	91M1G7D	BPSK
SISO Dual	K patch	100	1	24250 - 24450	0.637	28.04	94M3G7D	QPSK
SISO Dual	K patch	100	1	24250 - 24450	0.458	26.61	94M2W7D	16QAM
SISO Dual	K patch	100	1	24250 - 24450	0.382	25.82	94M1W7D	64QAM
SISO	K patch	100	2	24250 - 24450	0.073	18.66	191MG7D	BPSK
SISO	K patch	100	2	24250 - 24450	0.066	18.19	193MG7D	QPSK
SISO	K patch	100	2	24250 - 24450	0.074	18.68	193MW7D	16QAM
SISO	K patch	100	2	24250 - 24450	0.040	16.03	193MW7D	64QAM
SISO Dual	K patch	100	2	24250 - 24450	0.163	22.11	191MG7D	BPSK
SISO Dual	K patch	100	2	24250 - 24450	0.155	21.91	195MG7D	QPSK
SISO Dual	K patch	100	2	24250 - 24450	0.182	22.59	194MW7D	16QAM
SISO Dual	K patch	100	2	24250 - 24450	0.095	19.78	193MW7D	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	0.393	25.94	46M3G7D	BPSK
SISO	K patch	50	1	24750 - 25250	0.412	26.15	46M2G7D	QPSK
SISO	K patch	50	1	24750 - 25250	0.229	23.60	46M1W7D	16QAM
SISO	K patch	50	1	24750 - 25250	0.153	21.84	46M0W7D	64QAM
SISO Dual	K patch	50	1	24750 - 25250	0.697	28.43	46M6G7D	BPSK
SISO Dual	K patch	50	1	24750 - 25250	0.685	28.36	48M0G7D	QPSK
SISO Dual	K patch	50	1	24750 - 25250	0.480	26.81	46M6W7D	16QAM
SISO Dual	K patch	50	1	24750 - 25250	0.380	25.80	46M1W7D	64QAM
SISO	K patch	100	1	24750 - 25250	0.379	25.79	91M4G7D	BPSK
SISO	K patch	100	1	24750 - 25250	0.408	26.11	94M3G7D	QPSK
SISO	K patch	100	1	24750 - 25250	0.277	24.43	94M3W7D	16QAM
SISO	K patch	100	1	24750 - 25250	0.165	22.18	93M9W7D	64QAM
SISO Dual	K patch	100	1	24750 - 25250	0.667	28.24	91M3G7D	BPSK
SISO Dual	K patch	100	1	24750 - 25250	0.638	28.05	94M8G7D	QPSK
SISO Dual	K patch	100	1	24750 - 25250	0.411	26.14	94M3W7D	16QAM
SISO Dual	K patch	100	1	24750 - 25250	0.286	24.57	94M1W7D	64QAM
SISO	K patch	100	2	24750 - 25250	0.074	18.68	193MG7D	BPSK
SISO	K patch	100	2	24750 - 25250	0.076	18.78	194MG7D	QPSK
SISO	K patch	100	2	24750 - 25250	0.083	19.21	193MW7D	16QAM
SISO	K patch	100	2	24750 - 25250	0.048	16.80	193MW7D	64QAM
SISO Dual	K patch	100	2	24750 - 25250	0.149	21.72	193MG7D	BPSK
SISO Dual	K patch	100	2	24750 - 25250	0.143	21.54	194MG7D	QPSK
SISO Dual	K patch	100	2	24750 - 25250	0.169	22.28	193MW7D	16QAM
SISO Dual	K patch	100	2	24750 - 25250	0.092	19.64	193MW7D	64QAM
SISO	K patch	100	3	24750 - 25250	0.066	18.18	293MG7D	BPSK
SISO	K patch	100	3	24750 - 25250	0.072	18.59	293MG7D	QPSK
SISO	K patch	100	3	24750 - 25250	0.077	18.89	294MW7D	16QAM
SISO	K patch	100	3	24750 - 25250	0.044	16.47	292MW7D	64QAM
SISO Dual	K patch	100	3	24750 - 25250	0.136	21.32	292MG7D	BPSK
SISO Dual	K patch	100	3	24750 - 25250	0.132	21.20	295MG7D	QPSK
SISO Dual	K patch	100	3	24750 - 25250	0.149	21.72	295MW7D	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	0.083	19.18	293MW7D	64QAM
SISO	K patch	100	4	24750 - 25250	0.064	18.08	393MG7D	BPSK
SISO	K patch	100	4	24750 - 25250	0.065	18.13	392MG7D	QPSK
SISO	K patch	100	4	24750 - 25250	0.072	18.57	392MW7D	16QAM
SISO	K patch	100	4	24750 - 25250	0.040	16.05	391MW7D	64QAM
SISO Dual	K patch	100	4	24750 - 25250	0.133	21.25	392MG7D	BPSK
SISO Dual	K patch	100	4	24750 - 25250	0.133	21.23	395MG7D	QPSK
SISO Dual	K patch	100	4	24750 - 25250	0.158	21.98	395MW7D	16QAM
SISO Dual	K patch	100	4	24750 - 25250	0.081	19.07	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	0.587	27.69	46M2G7D	BPSK
SISO	K patch	50	1	37000 - 40000	0.518	27.14	46M3G7D	QPSK
SISO	K patch	50	1	37000 - 40000	0.400	26.02	46M2W7D	16QAM
SISO	K patch	50	1	37000 - 40000	0.249	23.96	46M3W7D	64QAM
SISO Dual	K patch	50	1	37000 - 40000	1.535	31.86	46M0G7D	BPSK
SISO Dual	K patch	50	1	37000 - 40000	1.614	32.08	46M1G7D	QPSK
SISO Dual	K patch	50	1	37000 - 40000	0.853	29.31	46M2W7D	16QAM
SISO Dual	K patch	50	1	37000 - 40000	0.637	28.04	46M2W7D	64QAM
SISO	K patch	100	1	37000 - 40000	0.491	26.91	91M6G7D	BPSK
SISO	K patch	100	1	37000 - 40000	0.482	26.83	94M6G7D	QPSK
SISO	K patch	100	1	37000 - 40000	0.399	26.01	94M9W7D	16QAM
SISO	K patch	100	1	37000 - 40000	0.252	24.01	94M9W7D	64QAM
SISO Dual	K patch	100	1	37000 - 40000	1.256	30.99	91M5G7D	BPSK
SISO Dual	K patch	100	1	37000 - 40000	1.202	30.80	94M6G7D	QPSK
SISO Dual	K patch	100	1	37000 - 40000	0.745	28.72	94M7W7D	16QAM
SISO Dual	K patch	100	1	37000 - 40000	0.528	27.23	94M6W7D	64QAM
SISO	K patch	100	2	37000 - 40000	0.186	22.70	194MG7D	BPSK
SISO	K patch	100	2	37000 - 40000	0.132	21.21	194MG7D	QPSK
SISO	K patch	100	2	37000 - 40000	0.129	21.11	195MW7D	16QAM
SISO	K patch	100	2	37000 - 40000	0.071	18.53	196MW7D	64QAM
SISO Dual	K patch	100	2	37000 - 40000	0.357	25.53	194MG7D	BPSK
SISO Dual	K patch	100	2	37000 - 40000	0.232	23.65	194MG7D	QPSK
SISO Dual	K patch	100	2	37000 - 40000	0.234	23.69	194MW7D	16QAM
SISO Dual	K patch	100	2	37000 - 40000	0.129	21.10	195MW7D	64QAM
SISO	K patch	100	3	37000 - 40000	0.194	22.87	295MG7D	BPSK
SISO	K patch	100	3	37000 - 40000	0.133	21.23	294MG7D	QPSK
SISO	K patch	100	3	37000 - 40000	0.126	20.99	295MW7D	16QAM
SISO	K patch	100	3	37000 - 40000	0.084	19.23	295MW7D	64QAM
SISO Dual	K patch	100	3	37000 - 40000	0.350	25.44	294MG7D	BPSK
SISO Dual	K patch	100	3	37000 - 40000	0.249	23.96	295MG7D	QPSK
SISO Dual	K patch	100	3	37000 - 40000	0.247	23.92	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	0.136	21.34	294MW7D	64QAM
SISO	K patch	100	4	37000 - 40000	0.163	22.13	394MG7D	BPSK
SISO	K patch	100	4	37000 - 40000	0.131	21.17	393MG7D	QPSK
SISO	K patch	100	4	37000 - 40000	0.124	20.95	394MW7D	16QAM
SISO	K patch	100	4	37000 - 40000	0.077	18.86	395MW7D	64QAM
SISO Dual	K patch	100	4	37000 - 40000	0.359	25.55	394MG7D	BPSK
SISO Dual	K patch	100	4	37000 - 40000	0.248	23.95	394MG7D	QPSK
SISO Dual	K patch	100	4	37000 - 40000	0.250	23.98	396MW7D	16QAM
SISO Dual	K patch	100	4	37000 - 40000	0.149	21.74	396MW7D	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	0.728	28.62	45M9G7D	BPSK
SISO	K patch	50	1	27500 - 28350	0.684	28.35	46M2G7D	QPSK
SISO	K patch	50	1	27500 - 28350	0.390	25.91	46M0W7D	16QAM
SISO	K patch	50	1	27500 - 28350	0.273	24.36	45M9W7D	64QAM
SISO Dual	K patch	50	1	27500 - 28350	0.617	27.90	45M8G7D	BPSK
SISO Dual	K patch	50	1	27500 - 28350	0.603	27.80	45M9G7D	QPSK
SISO Dual	K patch	50	1	27500 - 28350	0.398	26.00	46M0W7D	16QAM
SISO Dual	K patch	50	1	27500 - 28350	0.220	23.42	45M9W7D	64QAM
SISO	K patch	100	1	27500 - 28350	0.774	28.89	91M0G7D	BPSK
SISO	K patch	100	1	27500 - 28350	0.782	28.93	94M0G7D	QPSK
SISO	K patch	100	1	27500 - 28350	0.590	27.71	94M0W7D	16QAM
SISO	K patch	100	1	27500 - 28350	0.335	25.25	93M9W7D	64QAM
SISO Dual	K patch	100	1	27500 - 28350	0.607	27.83	90M9G7D	BPSK
SISO Dual	K patch	100	1	27500 - 28350	0.615	27.89	93M9G7D	QPSK
SISO Dual	K patch	100	1	27500 - 28350	0.340	25.32	93M9W7D	16QAM
SISO Dual	K patch	100	1	27500 - 28350	0.225	23.53	94M2W7D	64QAM
SISO	K patch	100	2	27500 - 28350	0.162	22.10	193MG7D	BPSK
SISO	K patch	100	2	27500 - 28350	0.187	22.73	193MG7D	QPSK
SISO	K patch	100	2	27500 - 28350	0.165	22.17	193MW7D	16QAM
SISO	K patch	100	2	27500 - 28350	0.109	20.37	193MW7D	64QAM
SISO Dual	K patch	100	2	27500 - 28350	0.113	20.53	191MG7D	BPSK
SISO Dual	K patch	100	2	27500 - 28350	0.113	20.54	193MG7D	QPSK
SISO Dual	K patch	100	2	27500 - 28350	0.109	20.37	193MW7D	16QAM
SISO Dual	K patch	100	2	27500 - 28350	0.070	18.47	193MW7D	64QAM
SISO	K patch	100	3	27500 - 28350	0.177	22.47	293MG7D	BPSK
SISO	K patch	100	3	27500 - 28350	0.196	22.93	294MG7D	QPSK
SISO	K patch	100	3	27500 - 28350	0.171	22.33	293MW7D	16QAM
SISO	K patch	100	3	27500 - 28350	0.090	19.56	293MW7D	64QAM
SISO Dual	K patch	100	3	27500 - 28350	0.105	20.20	293MG7D	BPSK
SISO Dual	K patch	100	3	27500 - 28350	0.109	20.36	294MG7D	QPSK
SISO Dual	K patch	100	3	27500 - 28350	0.114	20.56	293MW7D	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	0.069	18.40	294MW7D	64QAM
SISO	K patch	100	4	27500 - 28350	0.148	21.69	392MG7D	BPSK
SISO	K patch	100	4	27500 - 28350	0.149	21.72	393MG7D	QPSK
SISO	K patch	100	4	27500 - 28350	0.146	21.64	392MW7D	16QAM
SISO	K patch	100	4	27500 - 28350	0.081	19.08	392MW7D	64QAM
SISO Dual	K patch	100	4	27500 - 28350	0.116	20.63	393MG7D	BPSK
SISO Dual	K patch	100	4	27500 - 28350	0.107	20.30	393MG7D	QPSK
SISO Dual	K patch	100	4	27500 - 28350	0.127	21.05	393MW7D	16QAM
SISO Dual	K patch	100	4	27500 - 28350	0.070	18.43	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 (Registration Number: KR0032).

Seoicheon-ro
☒ Semi-anechoic Chamber 1
☐ Semi-anechoic Chamber 2
☐ Semi-anechoic Chamber 3
☒ mmWave Chamber (Fully-anechoic Chamber 1)

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 function 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 emissions measurements from 30MHz - 18GHz were performed in a semi anechoic chamber (SAC) conforming to the site validation requirements. Radiated power (EIRP) and radiated spurious emissions measurements above 18 GHz were performed according to ANSI C63.26_2015 in a fully 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®num_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 v01r03

Note:

1. The EUT was tested per the guidance of ANSI C63.26-2015, KDB 971168 D01 v03r01, KDB 842590 D01 v01r03
2. 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 provided by the manufacturer to set the Beam ID operating continuous Tx transmission (100 % duty cycle).
3. Patch antenna is comprised of two separate antenna feeds(H/V).
4. 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.
5. Per 2.1057(a)(2), spurious emissions were investigated up to 200 GHz.(up to 100 GHz for n258, n261 band)
6. The radiated RF output power, band edge and all out-of-band emissions in the spurious domain are evaluated to the EIRP limits.
7. 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.
8. 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)
9. The EUT was tested in three modes(Open, Half-open, Closed), the worst case configuration results are reported.

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

Note. The decision rule applies ‘simple acceptance’

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	4	H	H	62	2	15	V	H	59	2
	Mid	3	H	H	60	346	15	V	H	59	2
	High	4	H	H	59	2	15	V	H	61	2
n258b	Low	6	H	H	74	30	14	V	V	91	15
	Mid	4	H	H	59	178	14	V	V	89	15
	High	4	H	H	77	0	12	V	V	59	347
n261	Low	5	H	H	59	16	13	V	V	90	181
	Mid	4	H	H	61	2	13	V	V	89	182
	High	3	H	H	58	343	11	V	V	91	209
n260	Low	3	H	V	77	182	13	V	V	74	1
	Mid	4	H	V	89	211	13	V	V	90	1
	High	4	H	V	88	332	12	V	V	76	347

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	4+13	H+V	H	62	6	4+13	H+V	V	75	2
	Mid	4+13	H+V	H	58	3	4+13	H+V	V	91	2
	High	4+13	H+V	H	60	2	4+13	H+V	V	90	1
n258b	Low	4+13	H+V	H	89	330	4+13	H+V	V	90	0
	Mid	4+13	H+V	H	92	343	4+13	H+V	V	91	0
	High	4+13	H+V	H	90	343	4+13	H+V	V	91	347
n261	Low	4+13	H+V	H	89	179	4+13	H+V	V	89	330
	Mid	4+13	H+V	H	90	181	4+13	H+V	V	89	193
	High	3+12	H+V	H	73	197	3+12	H+V	V	74	152
n260	Low	4+13	H+V	H	90	179	4+13	H+V	V	90	0
	Mid	4+13	H+V	H	90	180	4+13	H+V	V	89	179
	High	5+14	H+V	H	43	13	5+14	H+V	V	89	14

3.3. MAXIMUM MEASUREMENT UNCERTAINTY

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

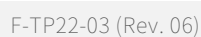
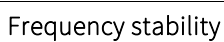
(Coverage factor $k = 2$, Confidence levels of 95 %)

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	± 5.82 dB
Band Edge		
Radiated Spurious Emissions	9 kHz ~ 30 MHz	± 4.36 dB
	30 MHz ~ 1 GHz	± 5.68 dB
	1 GHz ~ 18 GHz	± 5.75 dB
	18 GHz ~ 40 GHz	± 5.82 dB
	40 GHz ~ 200 GHz	± 5.58 dB
Frequency Stability	-	80.48 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

Occupied Bandwidth / EIRP / Band Edge / RSE



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.

$$\text{Wavelength} = \text{Speed of light} / \text{Measurement frequency} = 30 / 4\,000 = 0.0075$$

$$(2 \times (\text{Max measured antenna dimension})^2) / \text{Wavelength} = (2 \times (0.09604686)^2) / 0.0075 = \mathbf{2.46\,m}$$

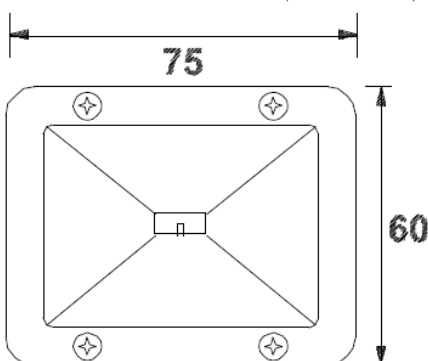
: Spurious emissions measurement distance is shown in table below(Reference : Measurement Antenna Dimension).

Frequency Range (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	03/13/2026	Annual	US51350313
Agilent	N9030B / PXA Signal Analyzer	04/26/2025	Annual	MY60070602
KIKUSUI	PWR800L / DC Power Supply	07/17/2025	Annual	RE002047
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/Antenna Mast	08/07/2025	Annual	S4AM
Rohde&Schwarz	FSW85/ Spectrum Analyzer	10/02/2025	Annual	101256
Schwarzbeck	Loop Antenna	01/06/2027	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	08/28/2026	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	Biennial	M19RH-180423-1
OML INC.	WR-19 / Horn Antenna	03/07/2026	Biennial	M19RH-180423-2
OML INC.	WR-12 / Horn Antenna	04/03/2026	Biennial	M12RH-160419-1
OML INC.	WR-12 / Horn Antenna	04/03/2026	Biennial	M12RH-160419-2
OML INC.	WR-08 / Horn Antenna	03/07/2026	Biennial	M08RH-180501-1
OML INC.	WR-08 / Horn Antenna	03/07/2026	Biennial	M08RH-180501-2
OML INC.	WR-05 / Horn Antenna	03/07/2026	Biennial	M05RH-180501-1
OML INC.	WR-05 / Horn Antenna	03/07/2026	Biennial	M05RH-180501-2
VDI	WR19SAX / Spectrum Analyzer Extension Module	02/25/2026	Annual	SAX771
VDI	WR12SAX / Spectrum Analyzer Extension Module	02/25/2026	Annual	SAX773
VDI	WR8.0SAX / Spectrum Analyzer Extension Module	02/25/2026	Annual	SAX779
VDI	WR5.1SAX / Spectrum Analyzer Extension Module	02/25/2026	Annual	SAX774
OML INC.	WR-19 / Source Module	07/12/2025	Annual	S19MS-A-160516-1
OML INC.	WR-12 / Source Module	07/12/2025	Annual	S12MS-A-160419-1
OML INC.	WR-08 / Source Module	07/12/2025	Annual	S08MS-A-160419-1
OML INC.	WR-05 / Source Module	07/12/2025	Annual	S05MS-A-160419-1
NANGYEUL CO., LTD.	NY-THR18750 / Temperature and Humidity Chamber	12/17/2025	Annual	NY-200912201A
Rohde & Schwarz	SMV100A / Signal Generator	07/26/2025	Annual	177633
Keysight	E7515B / UXM 5G Wireless Test Platform	12/20/2025	Annual	MY58300756
T&M SYSTEM	FBSR-04C / LNA1 thru(100M-18G)	03/12/2026	Annual	S4L4
SONOMA INSTRUMENT	310N / AMPLIFIER	02/05/2026	Annual	186169
TESTEK	TK-PA1840H / AMPLIFIER	10/11/2025	Annual	170011-L

Note:

- Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
- 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 $\geq 3 \times$ 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 $1.5 \times \text{OBW}$ 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 $\geq 3 \times \text{RBW}$.

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:

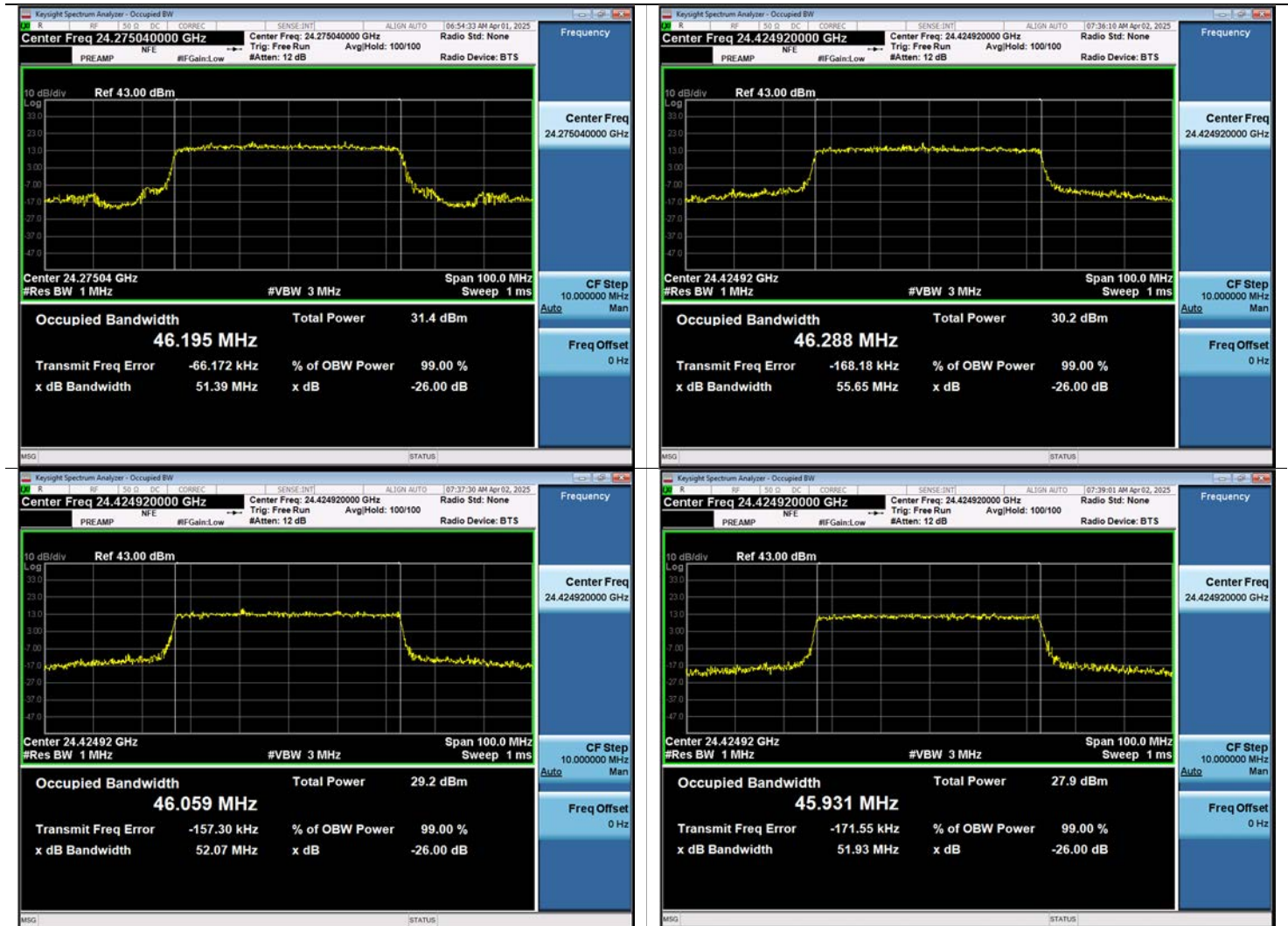
Tabular Data of Occupied Bandwidth

n258a Band Antenna 0(K patch)

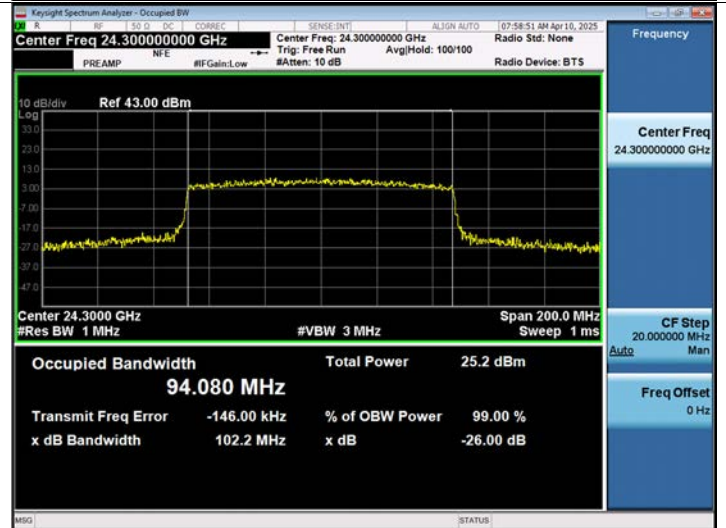
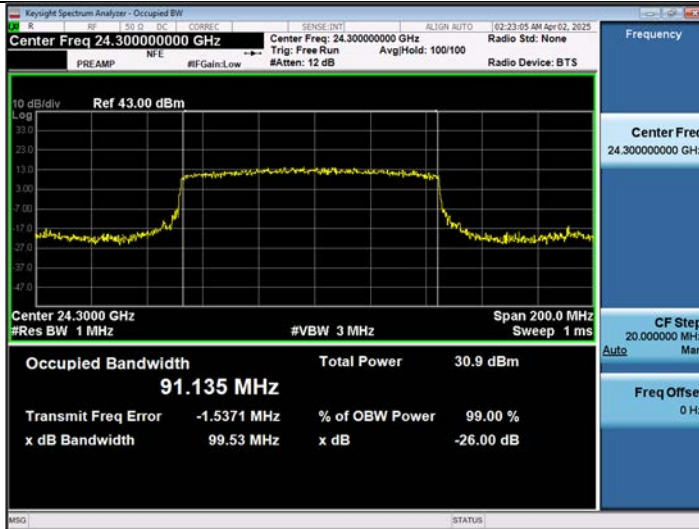
Antenna	Bandwidth [MHz]	CCs active	Modulation	OBW [MHz]
K patch	50	1	BPSK	46.195
			QPSK	46.288
			16QAM	46.059
			64QAM	45.931
	100	1	BPSK	91.135
			QPSK	94.322
			16QAM	94.203
			64QAM	94.080
	100	2	BPSK	191.21
			QPSK	194.96
			16QAM	193.52
			64QAM	192.95

Plot Data of RF Occupied Bandwidth
n258a Band Antenna 0(K patch)

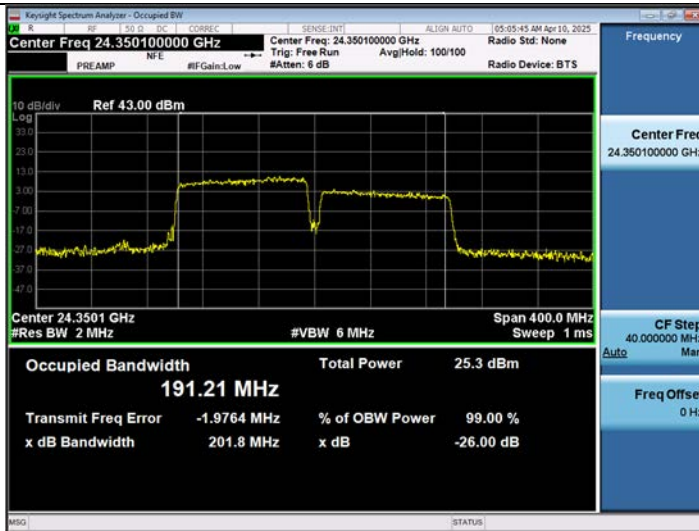
50 MHz, 1CC



100 MHz, ICC



100 MHz, 2CC



Tabular Data of Occupied Bandwidth

n258b Band Antenna 0(K patch)

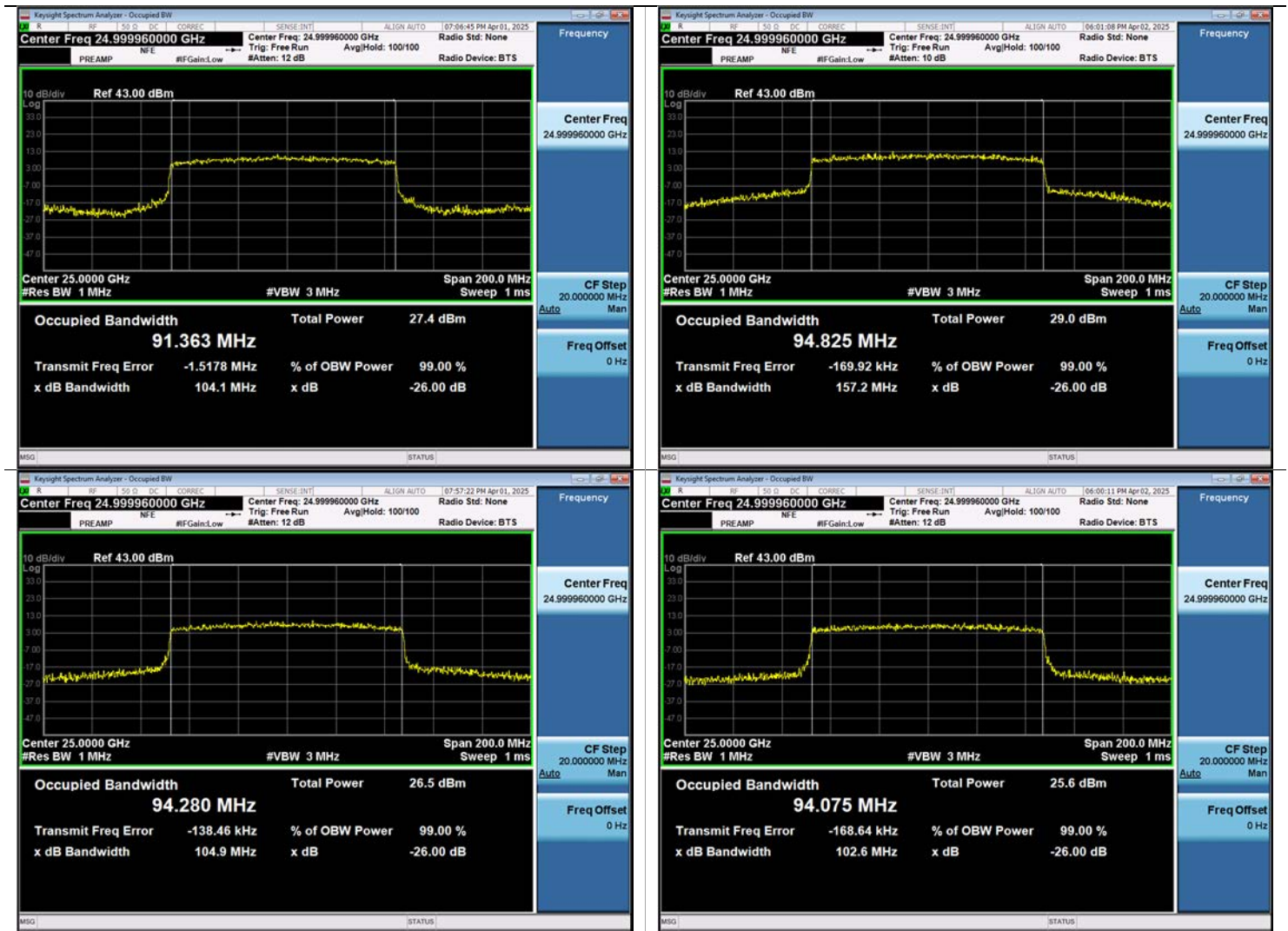
Antenna	Bandwidth [MHz]	CCs active	Modulation	OBW [MHz]
K patch	50	1	BPSK	46.648
			QPSK	47.993
			16QAM	46.606
			64QAM	46.117
	100	1	BPSK	91.363
			QPSK	94.825
			16QAM	94.280
			64QAM	94.075
	100	2	BPSK	192.96
			QPSK	194.21
			16QAM	192.86
			64QAM	193.05
	100	3	BPSK	293.12
			QPSK	294.50
			16QAM	294.99
			64QAM	292.77
	100	4	BPSK	392.62
			QPSK	394.79
			16QAM	395.07
			64QAM	392.98

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



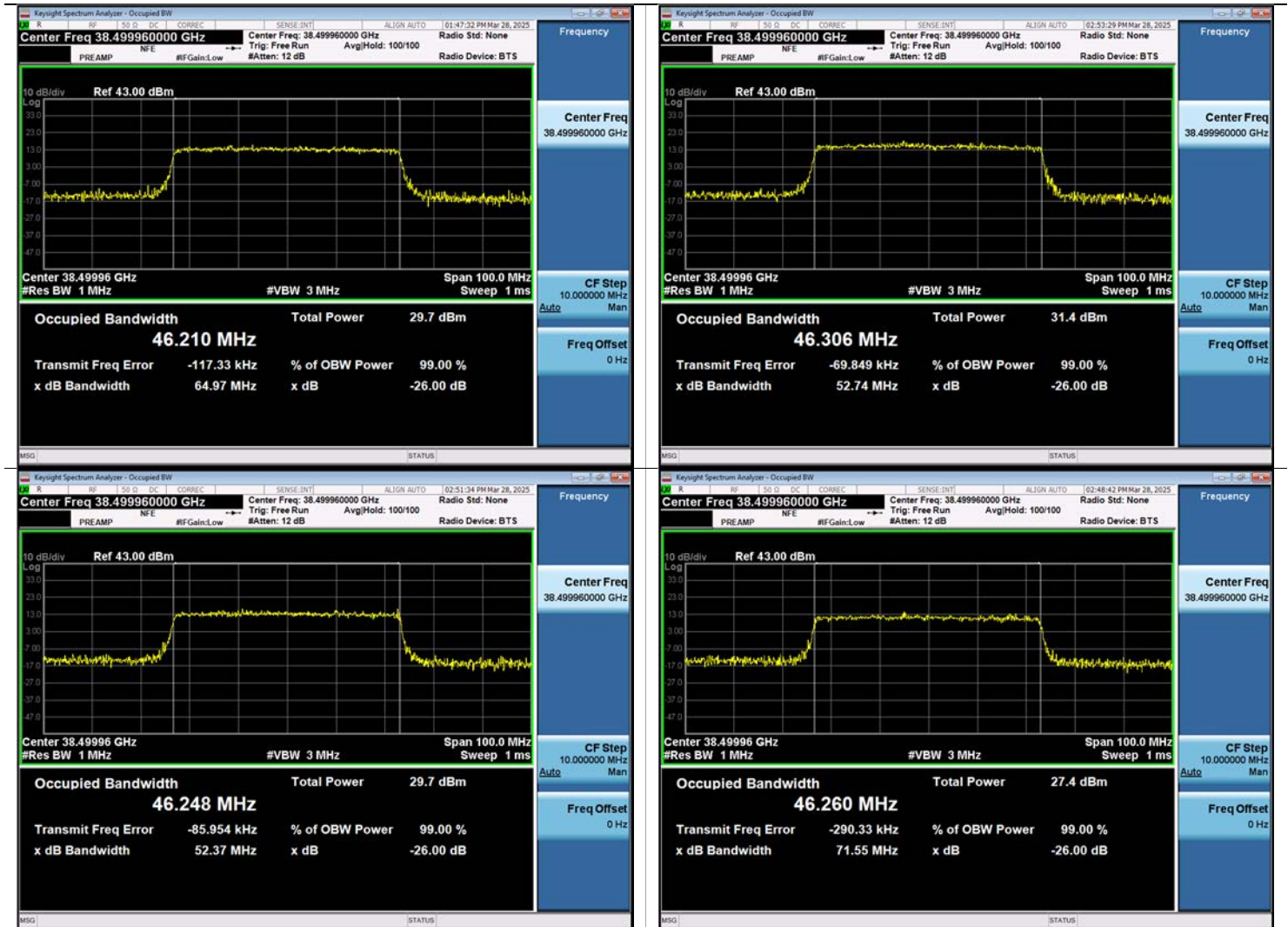
Tabular Data of Occupied Bandwidth

n260 Band Antenna 0(K patch)

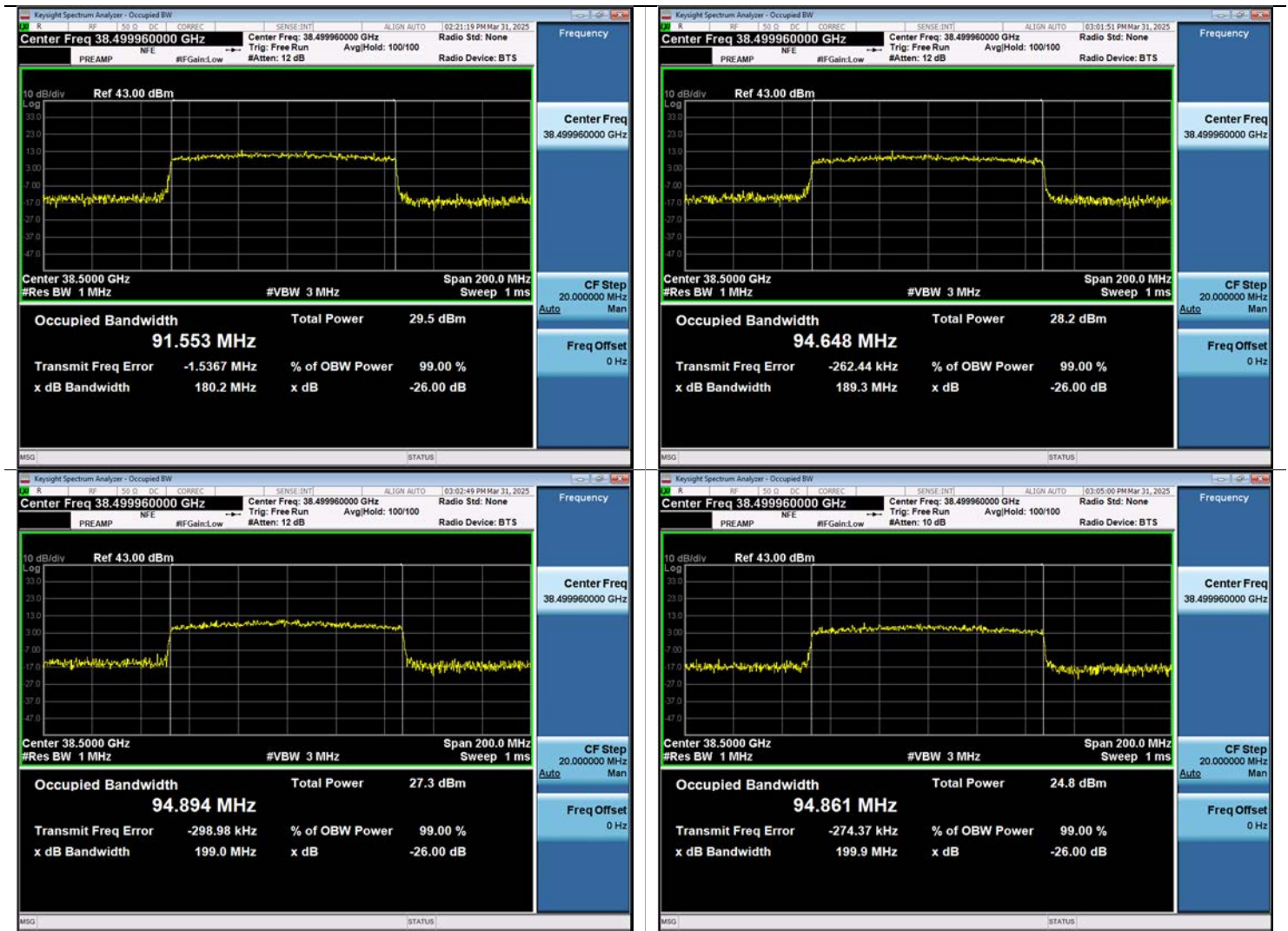
Antenna	Bandwidth [MHz]	CCs active	Modulation	OBW [MHz]
K patch	50	1	BPSK	46.210
			QPSK	46.306
			16QAM	46.248
			64QAM	46.260
	100	1	BPSK	91.553
			QPSK	94.648
			16QAM	94.894
			64QAM	94.861
	100	2	BPSK	194.27
			QPSK	194.26
			16QAM	194.52
			64QAM	196.11
	100	3	BPSK	294.95
			QPSK	295.12
			16QAM	295.21
			64QAM	294.90
	100	4	BPSK	393.75
			QPSK	394.36
			16QAM	396.28
			64QAM	396.11

Plot Data of RF Occupied Bandwidth
n260 Band Antenna 0(K patch)

50 MHz, 1CC



100 MHz, 1CC



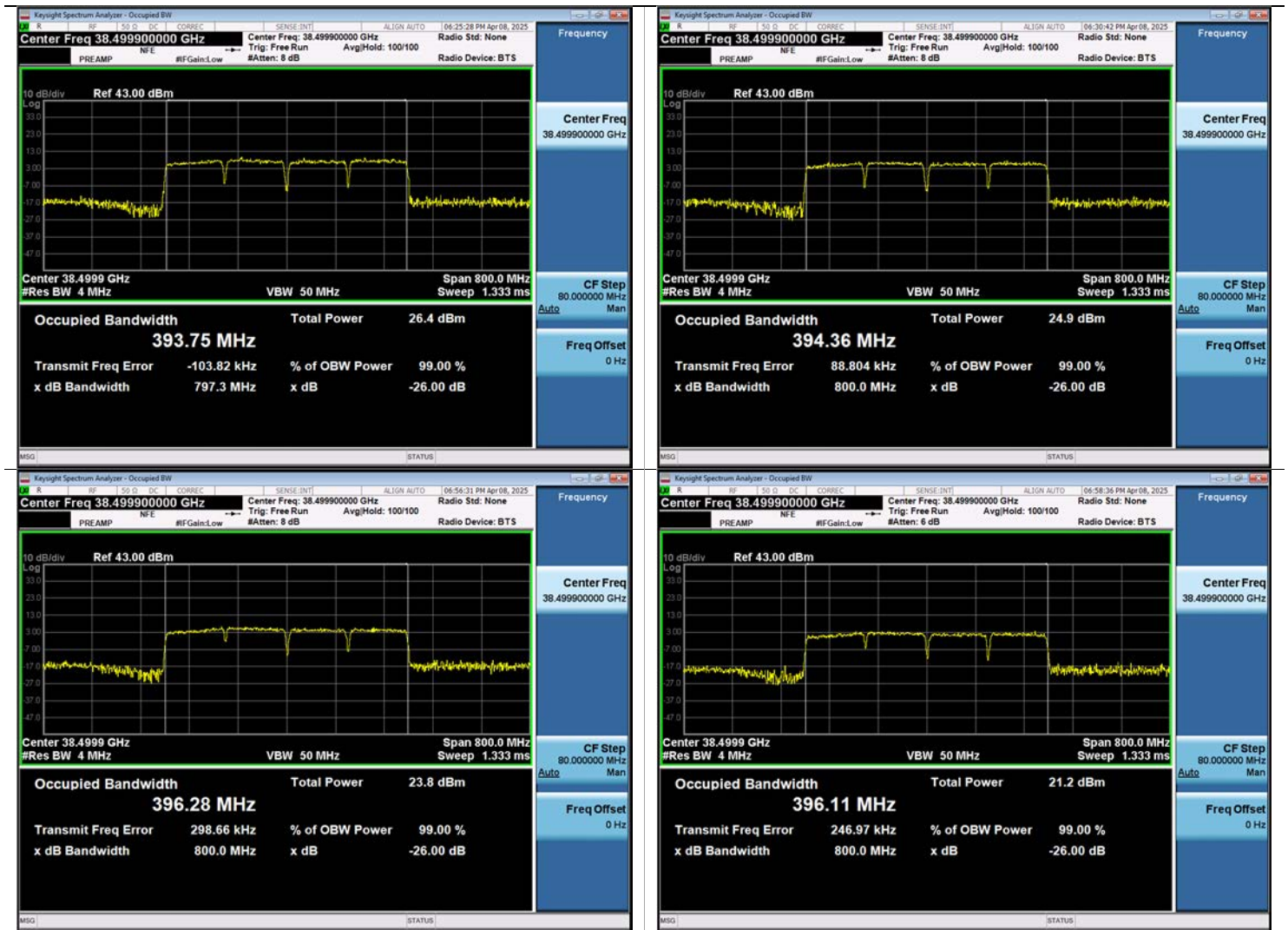
100 MHz, 2CC



100 MHz, 3CC



100 MHz, 4CC



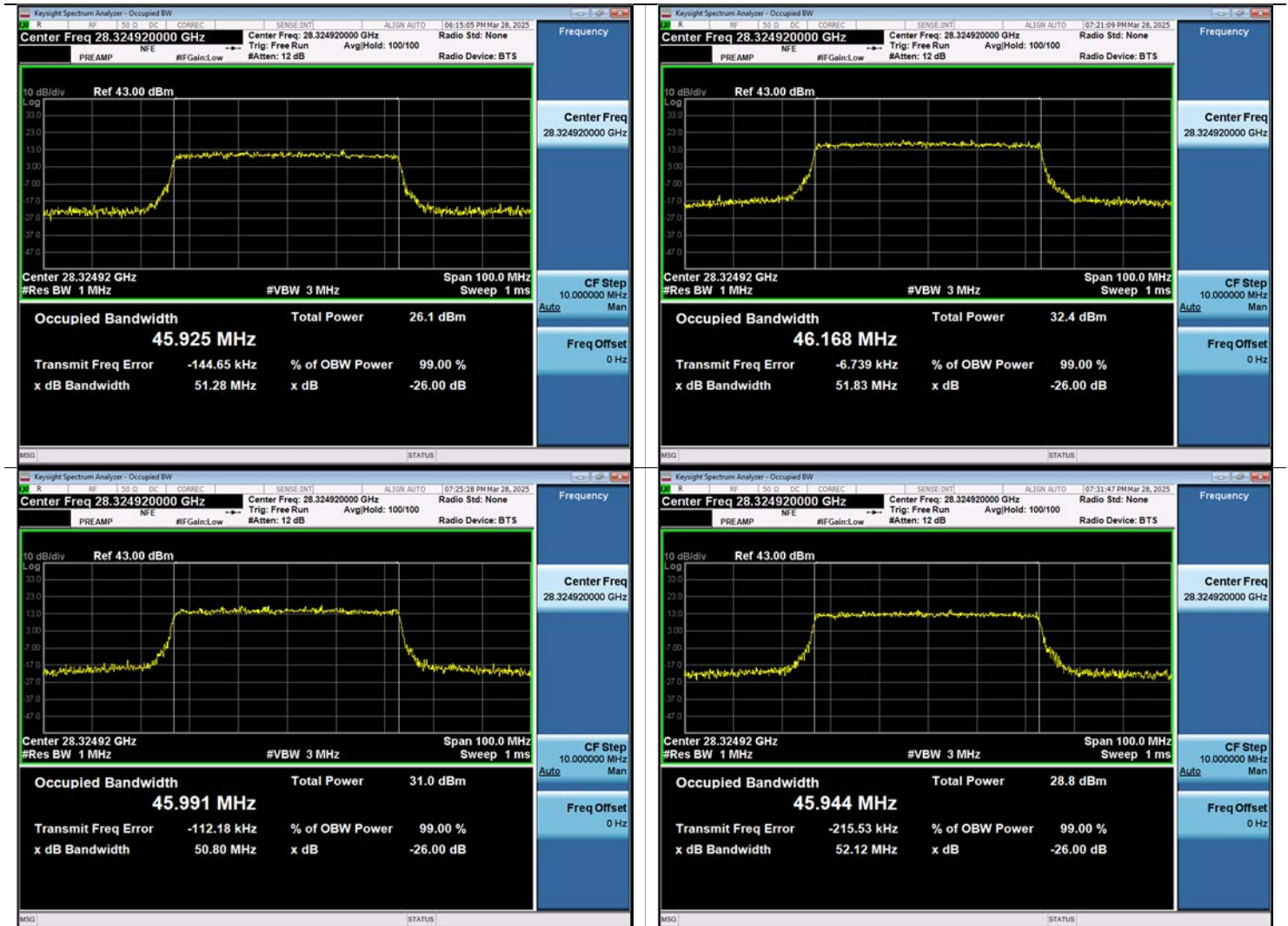
Tabular Data of Occupied Bandwidth

n261 Band Antenna 0(K patch)

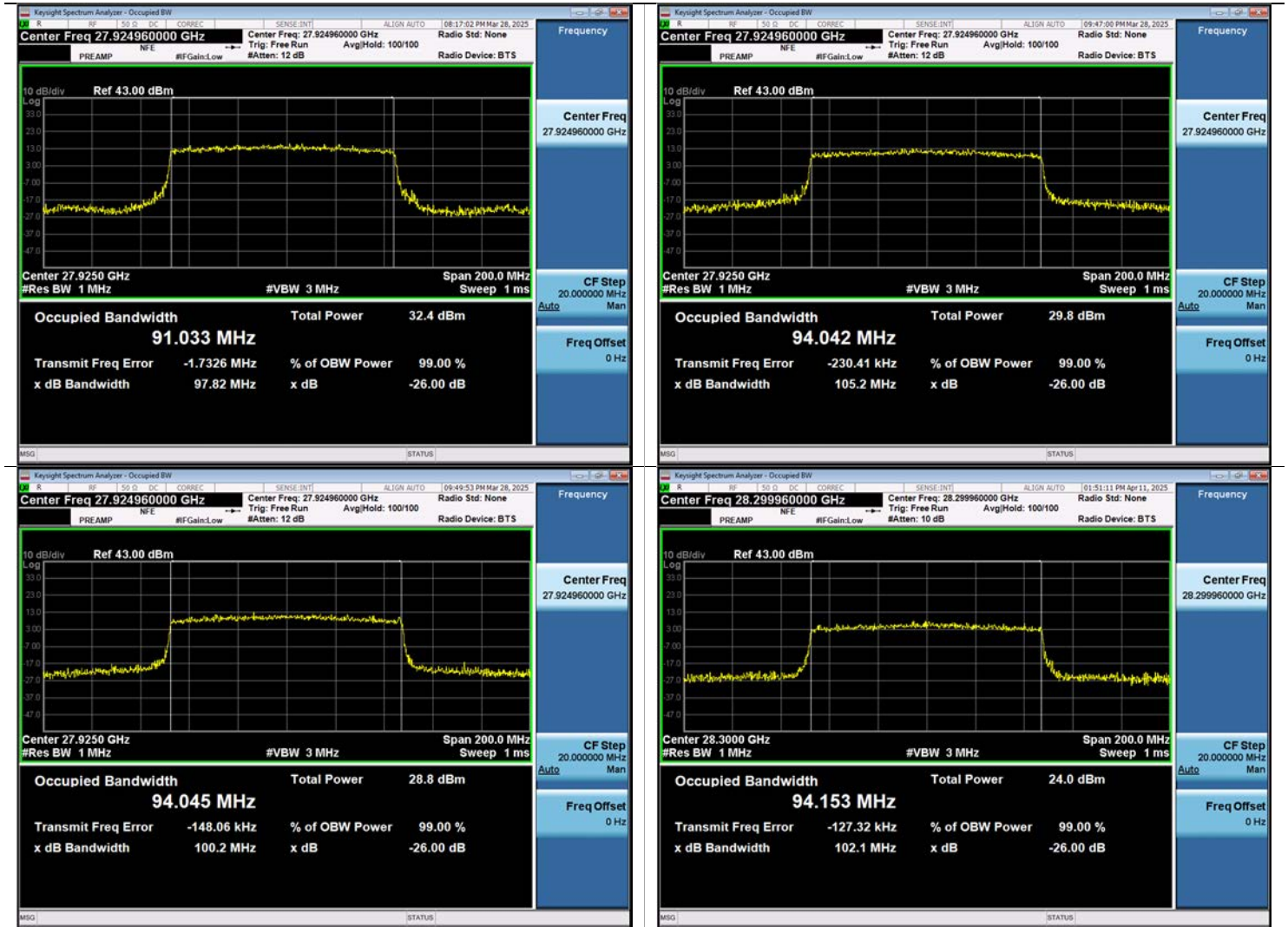
Antenna	Bandwidth [MHz]	CCs active	Modulation	OBW [MHz]
K patch	50	1	BPSK	45.925
			QPSK	46.168
			16QAM	45.991
			64QAM	45.944
	100	1	BPSK	91.033
			QPSK	94.042
			16QAM	94.045
			64QAM	94.153
	100	2	BPSK	192.79
			QPSK	193.04
			16QAM	193.00
			64QAM	193.44
	100	3	BPSK	292.93
			QPSK	293.82
			16QAM	293.05
			64QAM	293.65
	100	4	BPSK	393.00
			QPSK	392.93
			16QAM	393.28
			64QAM	393.63

Plot Data of RF Occupied Bandwidth
n261 Band Antenna 0(K patch)

50 MHz, 1CC



100 MHz, 1CC



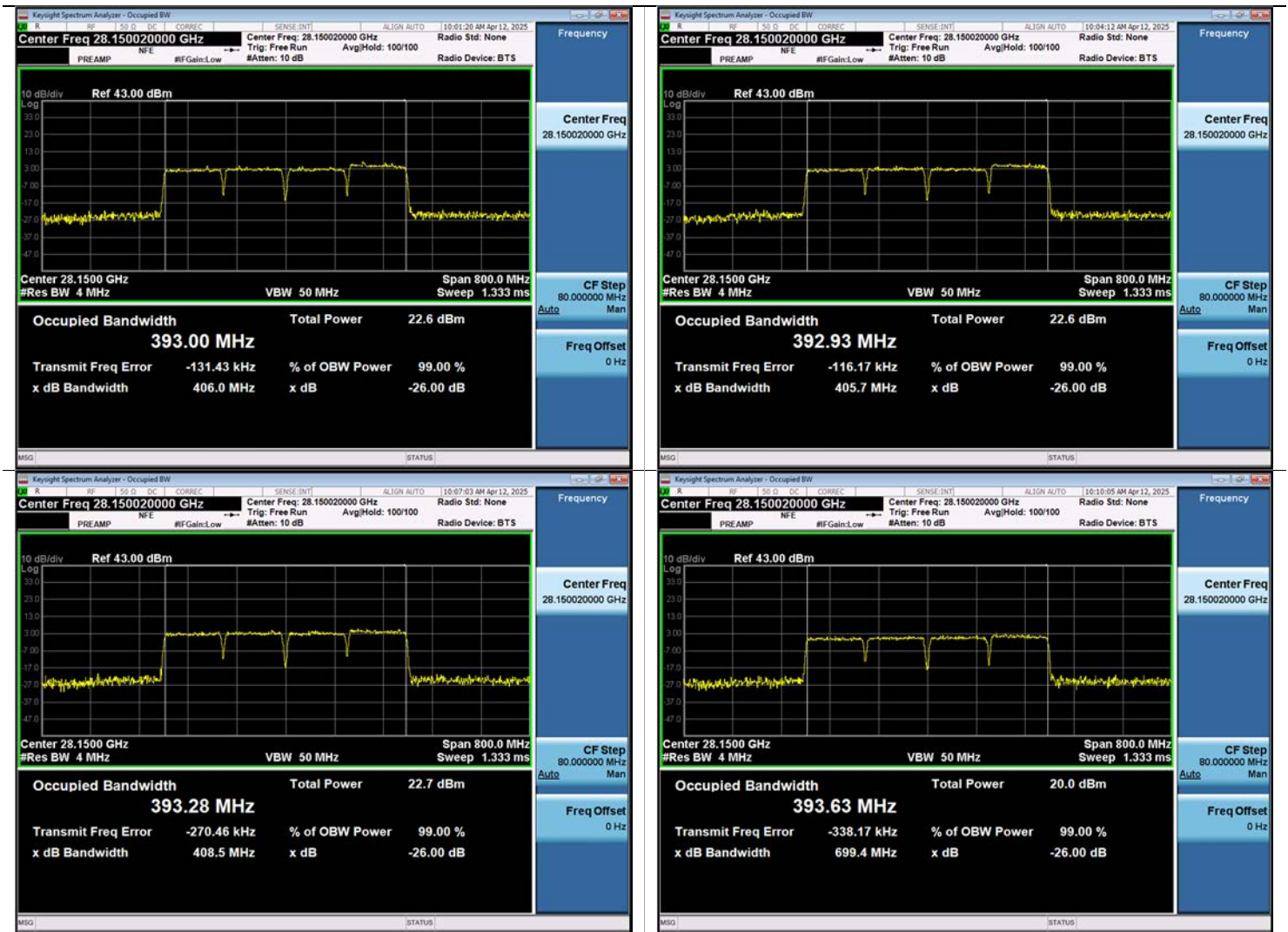
100 MHz, 2CC



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 $2 \times$ to $3 \times$ the OBW.
- b) Set RBW = 1% to 5% of the OBW.
- c) Set VBW $\geq 3 \times$ RBW.
- d) Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
- e) Sweep time:
 - 1) Set = auto-couple, or
 - 2) Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission symbol period})]$ 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 $10 \log (1/\text{duty cycle})$ 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	H	QPSK	1/16	H	28.60
		24350.04	Mid	H	BPSK	1/16	H	27.95
		24424.92	High	H	BPSK	1/16	H	28.23
		24275.04	Low	H	BPSK	1/16	H	28.29
		24275.04	Low	H	16QAM	1/16	H	25.71
		24275.04	Low	H	64QAM	1/16	H	23.21
1	100	24300.00	Low	H	QPSK	1/33	H	27.99
		24350.04	Mid	H	BPSK	1/33	H	26.90
		24399.96	High	H	BPSK	1/33	H	27.64
		24300.00	Low	H	BPSK	1/33	H	27.69
		24300.00	Low	H	16QAM	1/33	H	24.33
		24300.00	Low	H	64QAM	1/33	H	23.20
2	100	24350.04	Mid	H	BPSK	1/0	H	18.66
		24350.04	Mid	H	QPSK	1/0	H	18.19
		24350.04	Mid	H	16QAM	64/0	H	18.68
		24350.04	Mid	H	64QAM	64/0	H	16.03

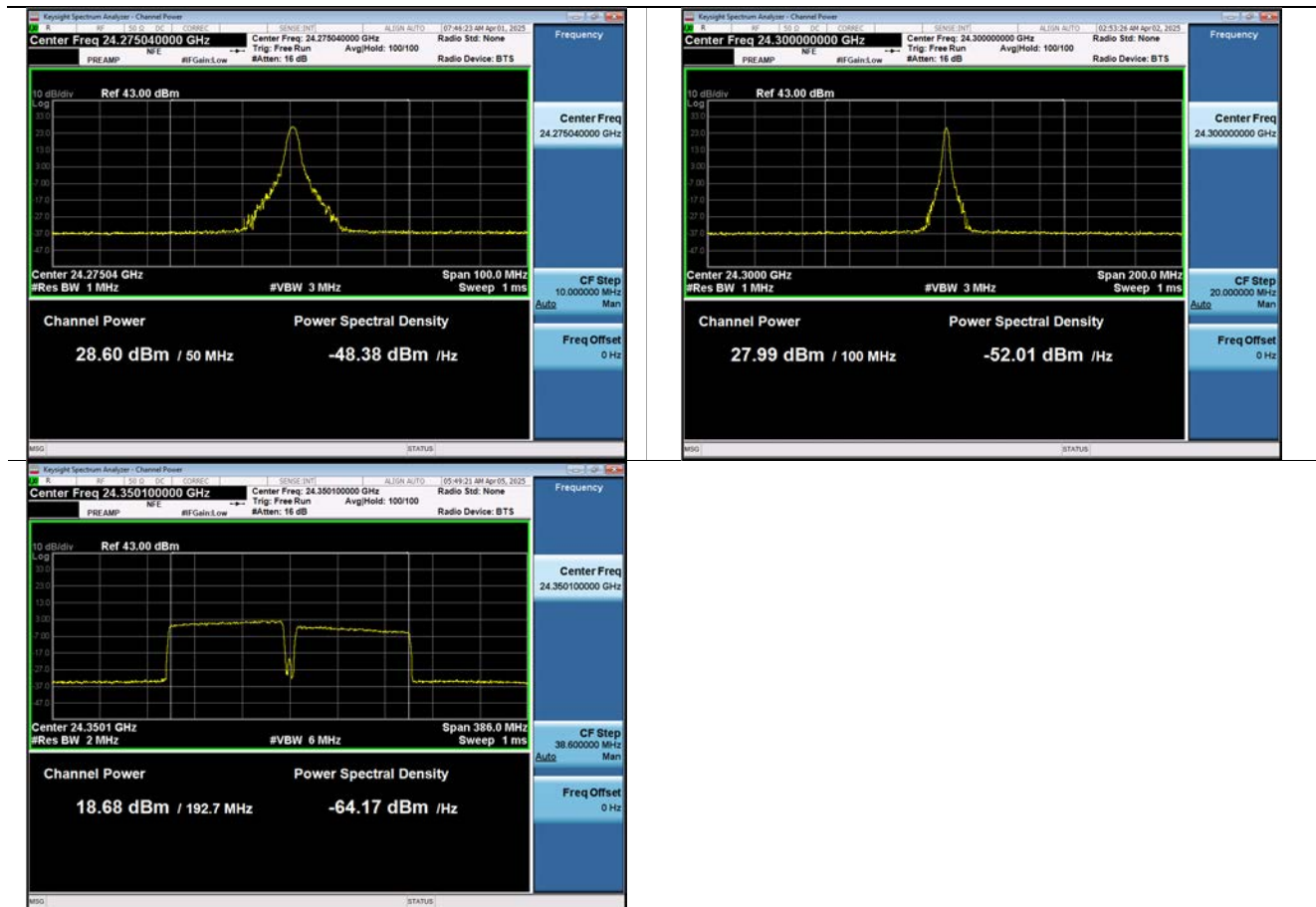
SISO Dual

CCs active	BW [MHz]	Frequency [MHz]	Channel	Beam Pol	Modulation	RB Size/Offset	Ant. Pol	EIRP [dBm]	EIRP_Sum [dBm]
1	50	24275.04	Low	H+V	BPSK	1/11	H	27.03	27.75
							V	19.59	
		24350.04	Mid	H+V	BPSK	1/11	H	26.94	27.52
							V	18.52	
		24424.92	High	H+V	BPSK	1/11	H	27.55	28.02
							V	18.11	
		24424.92	High	H+V	QPSK	1/11	H	27.31	27.79
							V	17.96	
		24424.92	High	H+V	16QAM	1/11	H	26.31	26.78
							V	16.85	
		24424.92	High	H+V	64QAM	1/11	H	24.87	25.41
							V	16.13	
1	100	24300.00	Low	H+V	BPSK	1/22	H	27.42	28.07
							V	19.47	
		24350.04	Mid	H+V	BPSK	1/22	H	27.16	27.75
							V	18.81	
		24399.96	High	H+V	BPSK	1/22	H	26.51	27.06
							V	17.85	
		24300.00	Low	H+V	QPSK	1/22	H	27.41	28.04
							V	19.35	
		24300.00	Low	H+V	16QAM	1/22	H	25.91	26.61
							V	18.35	
		24300.00	Low	H+V	64QAM	1/22	H	25.08	25.82
							V	17.75	
2	100	24300.12	Mid	H+V	BPSK	1/0	H	21.07	22.11
							V	15.38	
		24300.12	Mid	H+V	QPSK	1/0	H	20.86	21.91
							V	15.22	
		24300.12	Mid	H+V	16QAM	1/0	H	21.74	22.59
							V	15.08	
		24300.12	Mid	H+V	64QAM	1/0	H	18.70	19.78
							V	13.23	

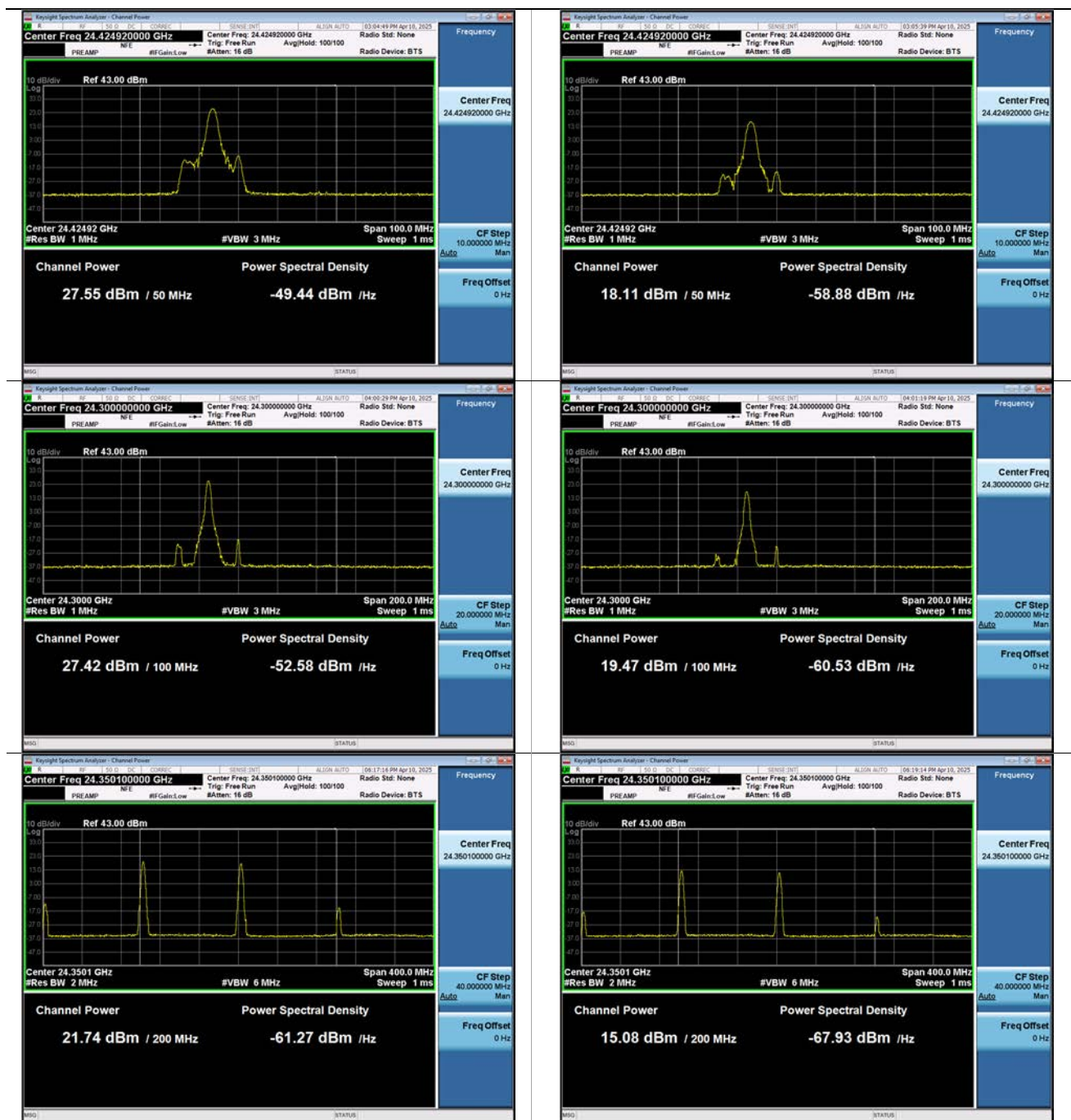
Plot Data of EIRP

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	H	BPSK	H	1/16	25.29
		24999.96	Mid	H	QPSK	H	1/16	26.15
		25224.96	High	H	BPSK	H	1/16	25.62
		24999.96	Mid	H	BPSK	H	1/16	25.94
		24999.96	Mid	H	16QAM	H	1/16	23.60
		24999.96	Mid	H	64QAM	H	1/16	21.84
1	100	24800.04	Low	H	BPSK	H	1/33	24.09
		24999.96	Mid	H	QPSK	H	1/33	26.11
		25200.00	High	H	BPSK	H	1/33	25.11
		24999.96	Mid	H	BPSK	H	1/33	25.79
		24999.96	Mid	H	16QAM	H	1/33	24.43
		24999.96	Mid	H	64QAM	H	1/33	22.18
2	100	24800.04	Low	H	BPSK	H	64/0	17.61
		24950.04	Mid	H	16QAM	H	64/0	19.21
		25200.00	High	H	BPSK	H	1/65	18.20
		24950.04	Mid	H	BPSK	H	64/0	18.68
		24950.04	Mid	H	QPSK	H	64/0	18.78
		24950.04	Mid	H	64QAM	H	64/0	16.80
3	100	24800.04	Low	H	BPSK	H	64/0	17.50
		24900.00	Mid	H	16QAM	H	64/0	18.89
		25200.00	High	H	BPSK	H	1/65	17.60
		24900.00	Mid	H	BPSK	H	64/0	18.18
		24900.00	Mid	H	QPSK	H	64/0	18.59
		24900.00	Mid	H	64QAM	H	64/0	16.47
4	100	24800.04	Low	H	BPSK	H	1/0	17.82
		24849.96	Mid	H	16QAM	H	64/0	18.57
		25200.00	High	H	BPSK	H	1/65	17.65
		24849.96	Mid	H	BPSK	H	64/0	18.08
		24849.96	Mid	H	QPSK	H	64/0	18.13
		24849.96	Mid	H	64QAM	H	64/0	16.05

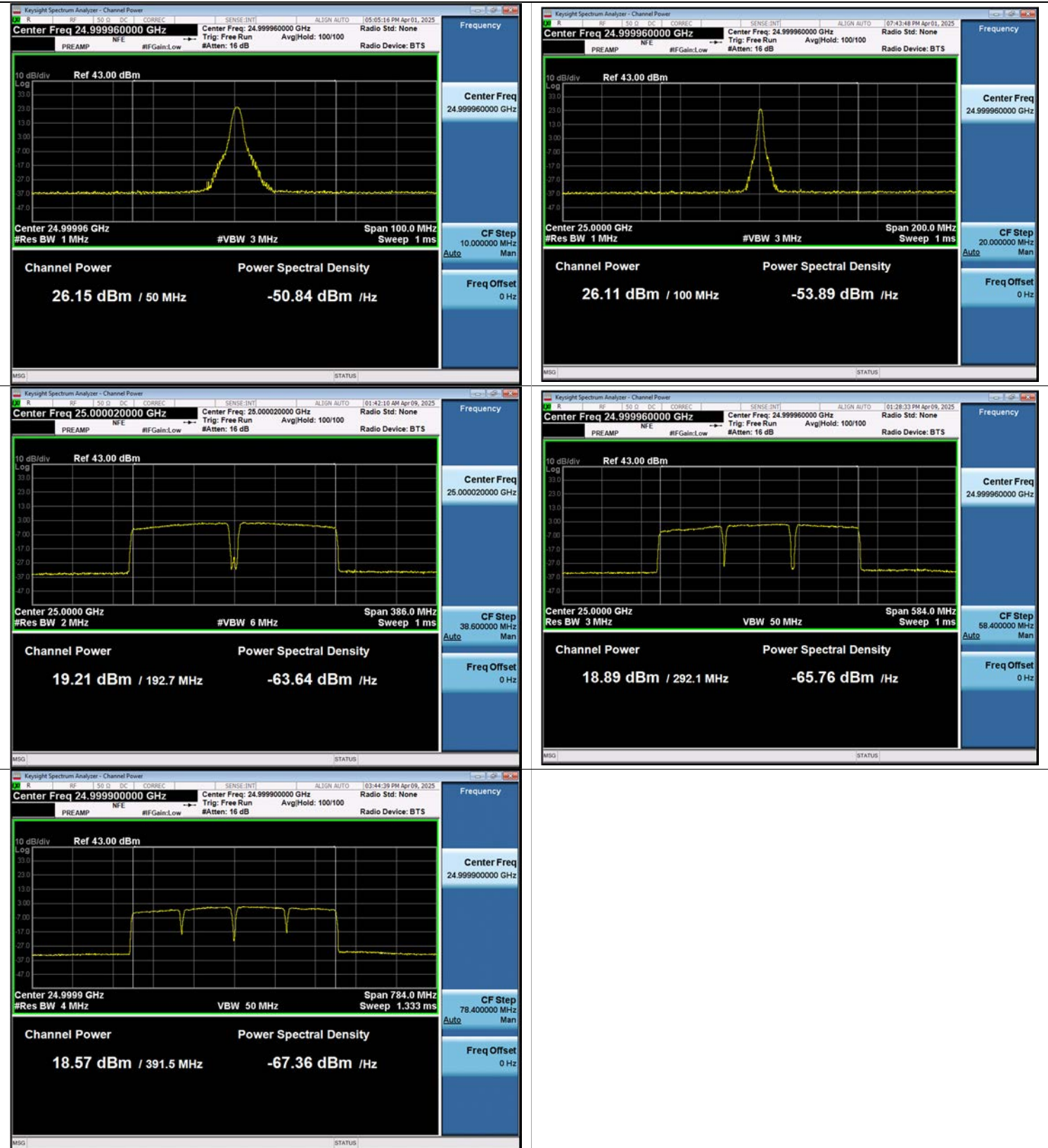
SISO Dual

CCs active	BW [MHz]	Frequency [MHz]	Channel	Beam Pol	Modulation	RB Size/Offset	Ant. Pol	EIRP [dBm]	EIRP_Sum [dBm]
1	50	24775.08	Low	H+V	BPSK	1/16	H	18.60	26.91
							V	26.22	
		24999.96	Mid	H+V	BPSK	1/16	H	20.91	28.43
							V	27.59	
		25224.96	High	H+V	BPSK	1/16	H	21.10	28.35
							V	27.44	
		24999.96	Mid	H+V	QPSK	1/16	H	21.02	28.36
							V	27.47	
		24999.96	Mid	H+V	16QAM	1/16	H	19.76	26.81
							V	25.85	
		24999.96	Mid	H+V	64QAM	1/16	H	19.19	25.80
							V	24.73	
1	100	24800.04	Low	H+V	BPSK	1/33	H	17.24	26.48
							V	25.93	
		24999.96	Mid	H+V	BPSK	1/33	H	19.66	28.24
							V	27.59	
		25200.00	High	H+V	BPSK	1/33	H	19.73	27.87
							V	27.15	
		24999.96	Mid	H+V	QPSK	1/33	H	19.68	28.05
							V	27.37	
		24999.96	Mid	H+V	16QAM	1/33	H	18.75	26.14
							V	25.26	
		24999.96	Mid	H+V	64QAM	1/33	H	18.10	24.57
							V	23.46	
2	100	24800.04	Low	H+V	BPSK	1/33	H	14.38	21.35
							V	20.38	
		24950.04	Mid	H+V	16QAM	1/33	H	16.61	22.28
							V	20.91	
		25200.00	High	H+V	BPSK	1/33	H	14.95	21.05
							V	19.83	
		24950.04	Mid	H+V	BPSK	1/33	H	15.48	21.72
							V	20.54	
		24950.04	Mid	H+V	QPSK	1/33	H	15.37	21.54
							V	20.34	
		24950.04	Mid	H+V	64QAM	64/0	H	13.17	19.64
							V	18.53	
3	100	24800.04	Low	H+V	BPSK	64/0	H	15.00	21.17
							V	19.97	
		24900.00	Mid	H+V	16QAM	64/0	H	15.64	21.72
							V	20.49	
		25200.00	High	H+V	BPSK	64/0	H	14.90	20.91
							V	19.66	
		24900.00	Mid	H+V	BPSK	64/0	H	15.20	21.32
							V	20.10	
		24900.00	Mid	H+V	QPSK	64/0	H	15.09	21.20
							V	19.98	
		24900.00	Mid	H+V	64QAM	64/0	H	13.04	19.18
							V	17.97	

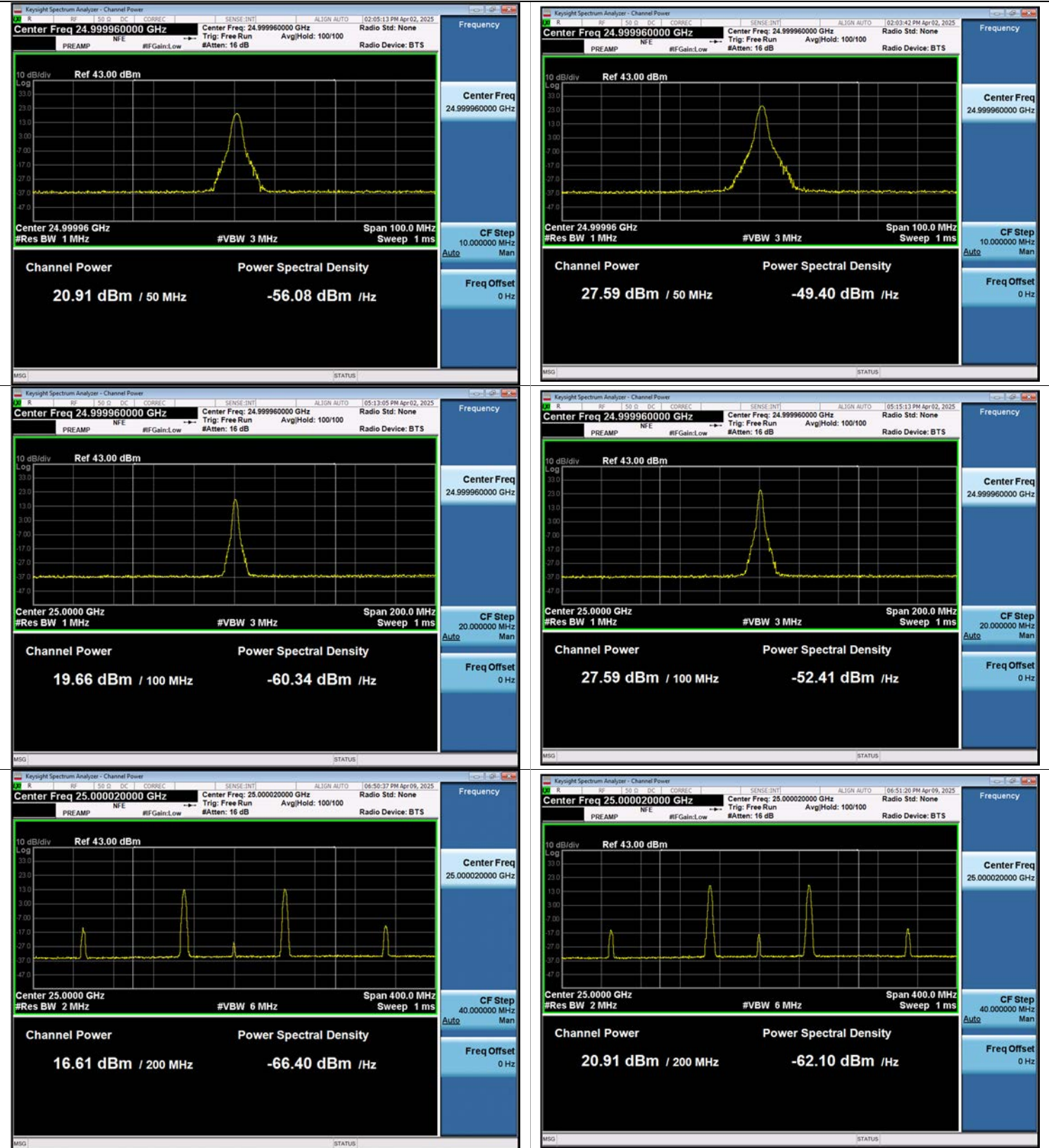
CCs active	BW [MHz]	Frequency [MHz]	Channel	Beam Pol	Modulation	RB Size/Offset	Ant. Pol	EIRP [dBm]	EIRP_Sum [dBm]
4	100	24800.04	Low	H+V	BPSK	64/0	H	14.61	20.85
							V	19.67	
		24849.96	Mid	H+V	BPSK	64/0	H	14.68	21.02
							V	19.87	
		25200.00	High	H+V	16QAM	1/65	H	15.31	21.98
							V	20.93	
		25200.00	High	H+V	BPSK	64/0	H	14.90	21.25
							V	20.11	
		25200.00	High	H+V	QPSK	1/65	H	14.95	21.23
							V	20.07	
		25200.00	High	H+V	64QAM	1/65	H	13.35	19.07
							V	17.71	

Plot Data of EIRP
n258b Band Antenna 0(K patch)

SISO



SISO Dual



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	V	BPSK	V	1/16	27.18
		38499.96	Mid	V	BPSK	V	1/16	27.69
		39975.00	High	V	BPSK	V	1/16	26.77
		38499.96	Mid	V	QPSK	V	1/16	27.14
		38499.96	Mid	V	16QAM	V	1/16	26.02
		38499.96	Mid	V	64QAM	V	1/16	23.96
1	100	37050.00	Low	V	BPSK	V	1/33	26.61
		38499.96	Mid	V	BPSK	V	1/33	26.91
		39949.92	High	V	BPSK	V	1/33	26.47
		38499.96	Mid	V	QPSK	V	1/33	26.83
		38499.96	Mid	V	16QAM	V	1/33	26.01
		38499.96	Mid	V	64QAM	V	1/33	24.01
2	100	37050.00	Low	V	BPSK	V	1/22	21.31
		38450.04	Mid	V	BPSK	V	64/0	22.70
		39949.92	High	V	BPSK	V	1/65	20.69
		38450.04	Mid	V	QPSK	V	64/0	21.21
		38450.04	Mid	V	16QAM	V	64/0	21.11
		38450.04	Mid	V	64QAM	V	64/0	18.53
3	100	37050.00	Low	V	BPSK	V	1/22	21.79
		38400.00	Mid	V	BPSK	V	1/22	22.87
		39949.92	High	V	BPSK	V	1/22	20.62
		38400.00	Mid	V	QPSK	V	1/22	21.23
		38400.00	Mid	V	16QAM	V	64/0	20.99
		38400.00	Mid	V	64QAM	V	1/22	19.23
4	100	37050.00	Low	V	BPSK	V	1/22	21.63
		38349.96	Mid	V	BPSK	V	1/22	22.13
		39949.92	High	V	BPSK	V	1/22	20.41
		38349.96	Mid	V	QPSK	V	1/22	21.17
		38349.96	Mid	V	16QAM	V	1/22	20.95
		38349.96	Mid	V	64QAM	V	1/22	18.86

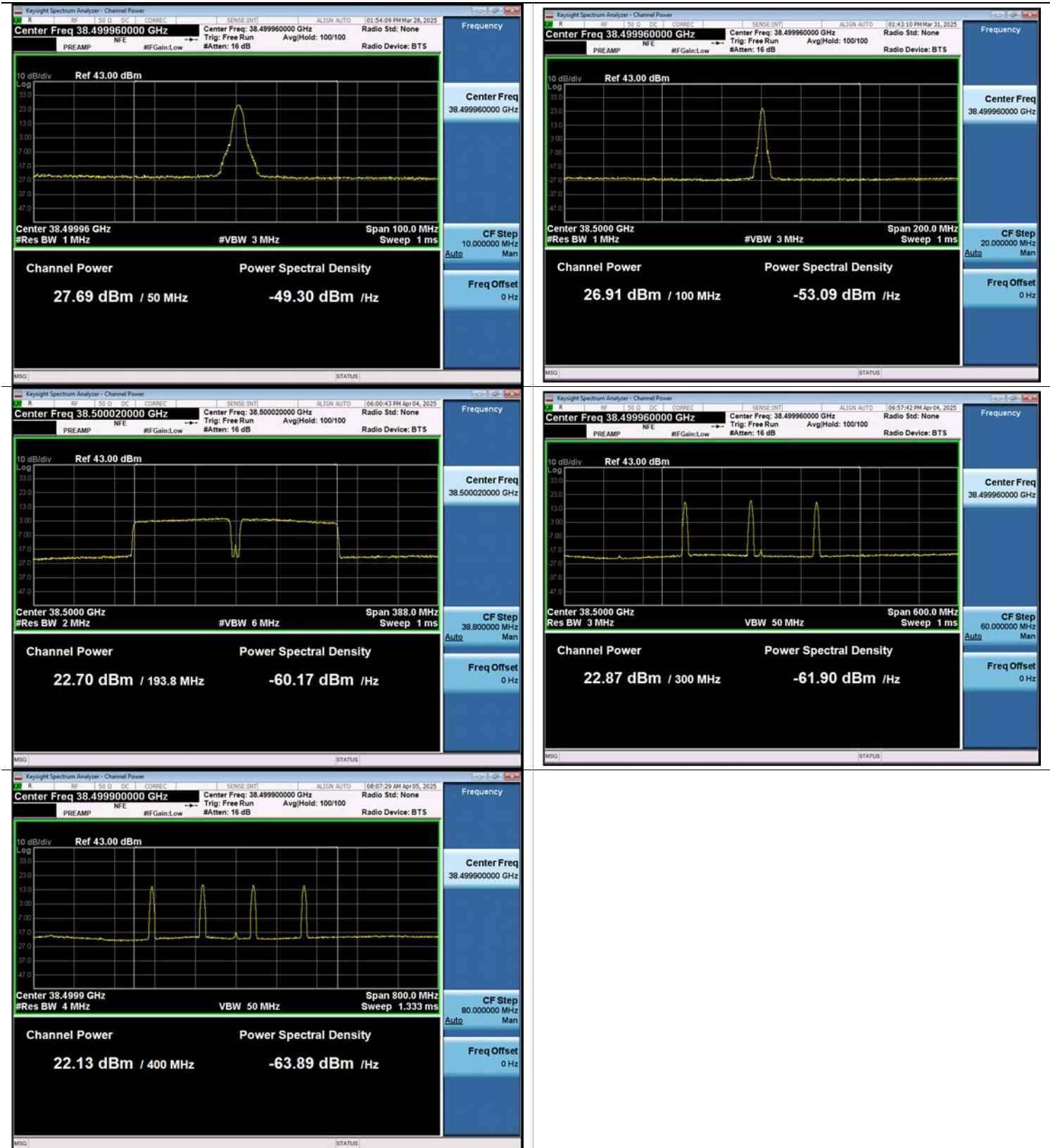
SISO Dual

CCs active	BW [MHz]	Frequency [MHz]	Channel	Beam Pol	Modulation	RB Size/Offset	Ant. Pol	EIRP [dBm]	EIRP_Sum [dBm]
1	50	37025.04	Low	H+V	BPSK	1/16	H	26.42	31.41
							V	29.76	
		38499.96	Mid	H+V	QPSK	1/16	H	27.89	32.08
							V	29.99	
		39975.00	High	H+V	BPSK	1/16	H	26.10	30.12
							V	27.93	
		38499.96	Mid	H+V	BPSK	1/16	H	27.88	31.86
							V	29.64	
		38499.96	Mid	H+V	16QAM	1/16	H	25.75	29.31
							V	26.79	
		38499.96	Mid	H+V	64QAM	1/16	H	23.94	28.04
							V	25.90	
1	100	37050.00	Low	H+V	BPSK	1/33	H	25.91	30.27
							V	28.29	
		38499.96	Mid	H+V	BPSK	1/33	H	27.48	30.99
							V	28.42	
		39949.92	High	H+V	BPSK	1/33	H	25.95	30.01
							V	27.84	
		38499.96	Mid	H+V	QPSK	1/33	H	26.89	30.80
							V	28.53	
		38499.96	Mid	H+V	16QAM	1/33	H	25.35	28.72
							V	26.04	
		38499.96	Mid	H+V	64QAM	1/33	H	23.88	27.23
							V	24.53	
2	100	37050.00	Low	H+V	BPSK	64/0	H	20.45	24.84
							V	22.87	
		38450.04	Mid	H+V	BPSK	64/0	H	21.81	25.53
							V	23.13	
		39949.92	High	H+V	BPSK	64/0	H	18.41	23.08
							V	21.27	
		38450.04	Mid	H+V	QPSK	64/0	H	19.80	23.65
							V	21.35	
		38450.04	Mid	H+V	16QAM	64/0	H	19.84	23.69
							V	21.38	
		38450.04	Mid	H+V	64QAM	64/0	H	17.30	21.10
							V	18.75	
3	100	37050.00	Low	H+V	BPSK	64/0	H	20.43	24.70
							V	22.66	
		38400.00	Mid	H+V	BPSK	64/0	H	21.73	25.44
							V	23.03	
		39949.92	High	H+V	BPSK	1/65	H	18.49	22.97
							V	21.05	
		38400.00	Mid	H+V	QPSK	64/0	H	20.31	23.96
							V	21.50	
		38400.00	Mid	H+V	16QAM	64/0	H	20.22	23.92
							V	21.51	
		38400.00	Mid	H+V	64QAM	64/0	H	17.63	21.34
							V	18.93	

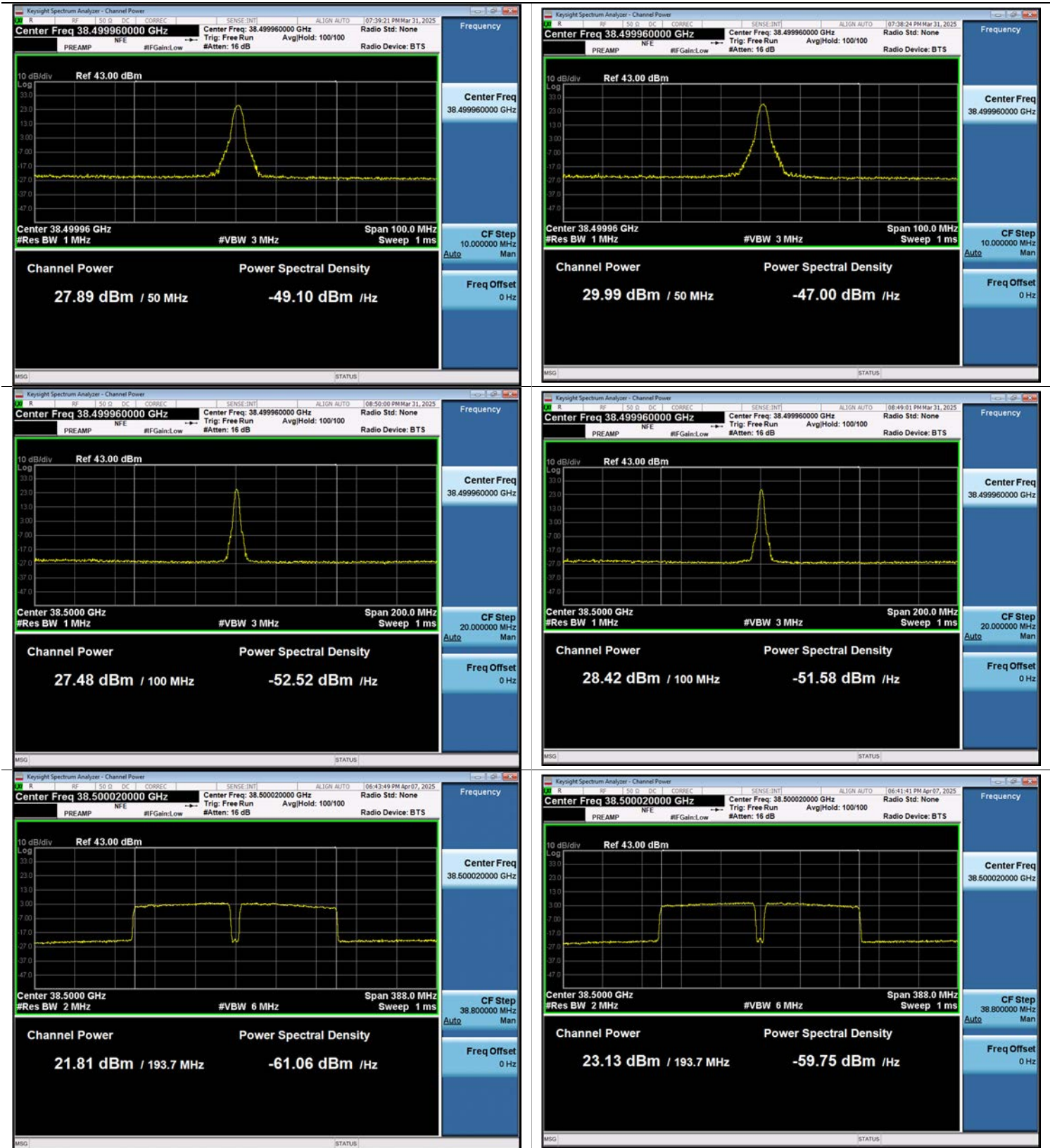
CCs active	BW [MHz]	Frequency [MHz]	Channel	Beam Pol	Modulation	RB Size/Offset	Ant. Pol	EIRP [dBm]	EIRP_Sum [dBm]
4	100	37050.00	Low	H+V	BPSK	64/0	H	20.34	24.61
							V	22.57	
		38349.96	Mid	H+V	BPSK	64/0	H	21.82	25.55
							V	23.15	
		39949.92	High	H+V	BPSK	1/65	H	18.50	22.98
							V	21.07	
		38349.96	Mid	H+V	QPSK	64/0	H	20.20	23.95
							V	21.58	
		38349.96	Mid	H+V	16QAM	64/0	H	20.20	23.98
							V	21.63	
		38349.96	Mid	H+V	64QAM	64/0	H	18.05	21.74
							V	19.31	

Plot Data of EIRP
n260 Band Antenna 0(K patch)

SISO



SISO Dual



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	H	BPSK	H	1/16	28.41
		27924.96	Mid	H	BPSK	H	1/16	28.54
		28324.92	High	H	BPSK	H	1/16	28.62
		28324.92	High	H	QPSK	H	1/16	28.35
		28324.92	High	H	16QAM	H	1/16	25.91
		28324.92	High	H	64QAM	H	1/16	24.36
1	100	27550.08	Low	H	BPSK	H	1/33	28.75
		27924.96	Mid	H	QPSK	H	1/33	28.93
		28299.96	High	H	BPSK	H	1/33	28.63
		27924.96	Mid	H	BPSK	H	1/33	28.89
		27924.96	Mid	H	16QAM	H	1/33	27.71
		27924.96	Mid	H	64QAM	H	1/33	25.25
2	100	27600.06	Low	H	BPSK	H	1/22	21.29
		27925.02	Mid	H	QPSK	H	1/22	22.73
		28249.98	High	H	BPSK	H	1/22	21.16
		27925.02	Mid	H	BPSK	H	1/22	22.10
		27925.02	Mid	H	16QAM	H	1/22	22.17
		27925.02	Mid	H	64QAM	H	1/22	20.37
3	100	27650.04	Low	H	BPSK	H	1/0	21.52
		27924.96	Mid	H	QPSK	H	1/0	22.93
		28200.00	High	H	BPSK	H	1/0	21.61
		27924.96	Mid	H	BPSK	H	1/0	22.47
		27924.96	Mid	H	16QAM	H	1/0	22.33
		27924.96	Mid	H	64QAM	H	64/0	19.56
4	100	27700.02	Low	H	BPSK	H	64/0	21.23
		27924.90	Mid	H	QPSK	H	64/0	21.72
		28150.02	High	H	BPSK	H	1/65	20.71
		27924.90	Mid	H	BPSK	H	64/0	21.69
		27924.90	Mid	H	16QAM	H	64/0	21.64
		27924.90	Mid	H	64QAM	H	64/0	19.08

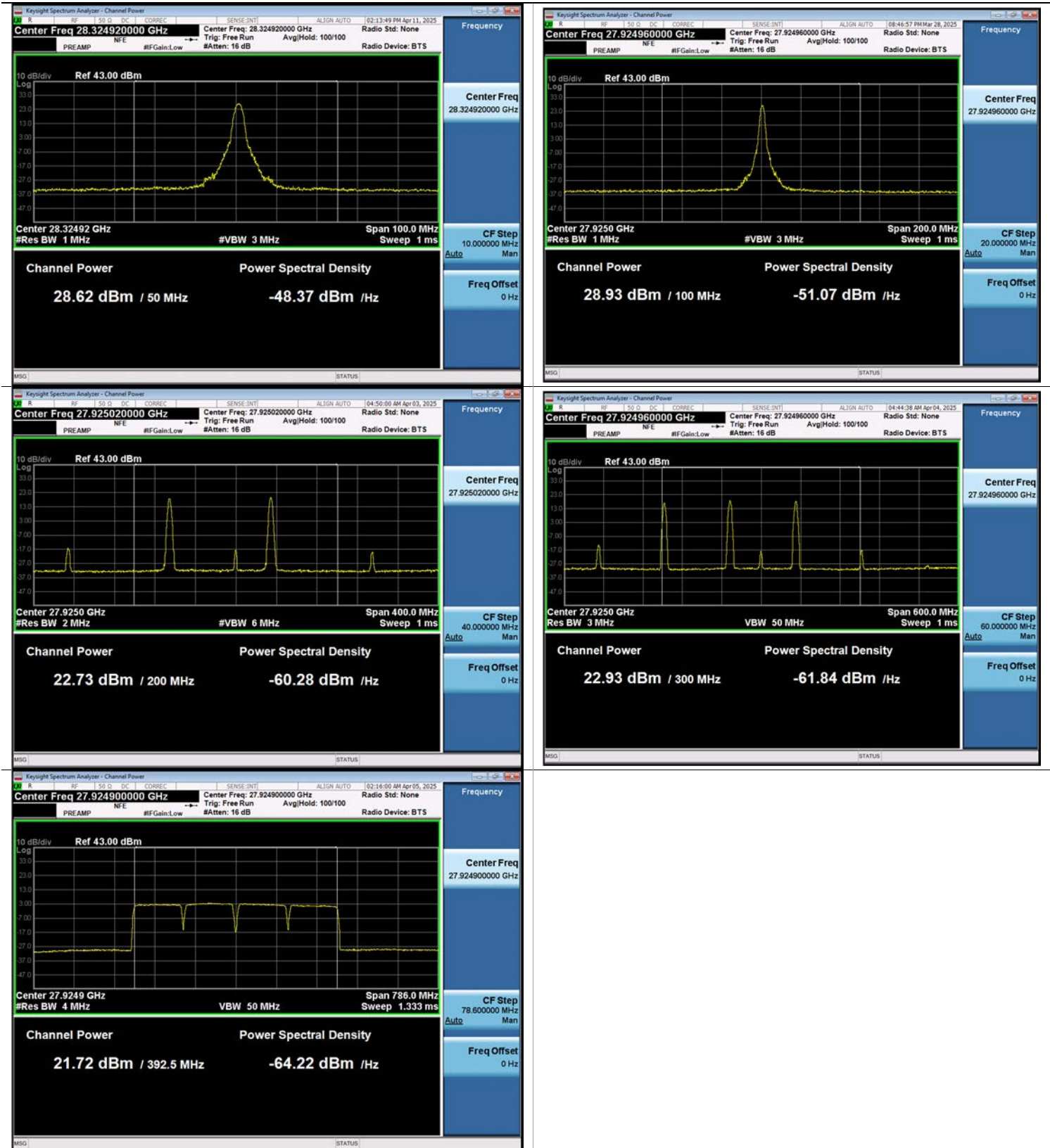
SISO Dual

CCs active	BW [MHz]	Frequency [MHz]	Channel	Beam Pol	Modulation	RB Size/Offset	Ant. Pol	EIRP [dBm]	EIRP_Sum [dBm]
1	50	27525.00	Low	H+V	BPSK	10/11	H	19.46	26.98
							V	26.14	
		27924.96	Mid	H+V	BPSK	10/11	H	20.46	27.10
							V	26.04	
		28324.92	High	H+V	BPSK	10/11	H	21.24	27.90
							V	26.84	
		28324.92	High	H+V	QPSK	10/11	H	20.73	27.80
							V	26.85	
		28324.92	High	H+V	16QAM	10/11	H	18.91	26.00
							V	25.05	
		28324.92	High	H+V	64QAM	10/11	H	16.72	23.42
							V	22.37	
1	100	27550.08	Low	H+V	BPSK	20/22	H	19.18	27.08
							V	26.31	
		27924.96	Mid	H+V	BPSK	20/22	H	20.64	27.20
							V	26.12	
		28299.96	High	H+V	QPSK	20/22	H	21.50	27.89
							V	26.76	
		28299.96	High	H+V	BPSK	20/22	H	21.14	27.83
							V	26.78	
		28299.96	High	H+V	16QAM	20/22	H	18.89	25.32
							V	24.20	
		28299.96	High	H+V	64QAM	20/22	H	16.94	23.53
							V	22.45	
2	100	27600.06	Low	H+V	BPSK	1/43	H	11.87	19.93
							V	19.19	
		27925.02	Mid	H+V	BPSK	1/43	H	13.25	20.26
							V	19.30	
		28249.98	High	H+V	QPSK	1/65	H	13.11	20.54
							V	19.67	
		28249.98	High	H+V	BPSK	1/43	H	14.00	20.53
							V	19.44	
		28249.98	High	H+V	16QAM	1/43	H	14.48	20.37
							V	19.07	
		28249.98	High	H+V	64QAM	1/65	H	11.13	18.47
							V	17.59	
3	100	27650.04	Low	H+V	BPSK	1/43	H	11.88	19.55
							V	18.74	
		27924.96	Mid	H+V	BPSK	1/43	H	13.12	19.97
							V	18.96	
		28200.00	High	H+V	16QAM	1/43	H	13.60	20.56
							V	19.58	
		28200.00	High	H+V	BPSK	1/43	H	13.41	20.20
							V	19.18	
		28200.00	High	H+V	QPSK	1/43	H	13.51	20.36
							V	19.35	
		28200.00	High	H+V	64QAM	1/65	H	12.20	18.40
							V	17.21	

CCs active	BW [MHz]	Frequency [MHz]	Channel	Beam Pol	Modulation	RB Size/Offset	Ant. Pol	EIRP [dBm]	EIRP_Sum [dBm]
4	100	27700.02	Low	H+V	BPSK	1/43	H	12.32	19.98
							V	19.16	
		27924.90	Mid	H+V	BPSK	1/43	H	13.84	20.34
							V	19.24	
		28150.02	High	H+V	16QAM	1/43	H	13.85	21.05
							V	20.13	
		28150.02	High	H+V	BPSK	1/43	H	14.00	20.63
							V	19.57	
		28150.02	High	H+V	QPSK	64/0	H	13.41	20.30
							V	19.31	
		28150.02	High	H+V	64QAM	1/43	H	11.42	18.43
							V	17.46	

Plot Data of EIRP
n261 Band Antenna 0(K patch)

SISO



SISO Dual

