

TEST REPORT

**CTK Co., Ltd.**

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Report No.:

CTK-2025-02996

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1. Applicant

- Name : Samsung Electronics Co., Ltd.
- Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, 16677, Korea
- Date of Receipt : 2025-09-12

2. Manufacturer

- Name : Samsung Electronics Co., Ltd.
- Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, 16677, Korea

3. Use of Report : For FCC Certification**4. Test Sample / Model:** MMU (MT6428) / MT6428-41A**5. Date of Test** : 2025-09-12 to 2025-10-22**6. Test Standard(method) used** : FCC 47 CFR Part 27, ANSI C63.26-2015**7. Testing Environment:** refer to 10 page**8. Test Results** : Compliance**9. Location of Test** : ☒ Permanent Testing Lab ☐ On Site Testing

(Address : 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
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Approval	Tested by	Technical Manager
	Du-Jin Kim: (Signature) 	Byung-Kwon In: (Signature) 

2025-10-30

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MEASUREMENT REPORT

FCC Rule Part 27

Mode	Frequency Range (MHz)	Max. EIRP (dBm)	Max. EIRP (W)	Max Emission Designator	Modulation
NR_1C_90M	2 496 – 2 690	81.81	151705.04	88M0G7D	QPSK
		81.84	152756.61	88M0W7D	QAM
NR_1C_100M		81.85	153108.75	97M8G7D	QPSK
		81.85	153108.75	97M9W7D	QAM
NR_2C_90M+100M		81.75	149623.57	187MG7D	QPSK
		81.82	152054.75	187MW7D	QAM

EUT Overview

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1.0 REVISION RECORD

Issue Number	Issued Date	Revision History
CTK-2025-02996	10/30/2025	Initial Issue

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2.0 INTRODUCTION

2.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

2.2 Laboratory Accreditations and Listings

Country	Agency	Registration Number
USA	FCC	805871
CANADA	ISED	CN : 8737A CAB ID : KR0025
KOREA	NRRA	KR0025

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3.0 PRODUCT INFORMATION

3.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung MMU (MT6428) FCC ID: A3LMT6428-41A**. The test data contained in this report pertains only to the emissions due to the EUT's licensed transmitters that operate under the provisions of Part 27.

3.2 Device Capabilities

This device supports the following conditional features and filter information:

FCC ID:	A3LMT6428-41A		
FCC Classification	Licensed Non-Broadcast Station Transmitter		
EUT Type:	MMU(MT6428)		
Model Name:	MT6428-41A		
Test Device Serial No:	A2500356908		
Device Capabilities:	5G NR		
Operating Band/Frequency Range:	Band	Tx (Downlink)	Rx (Uplink)
	n41:	2 496 MHz to 2 690 MHz	2 496 MHz to 2 690 MHz
Supported Modulation:	QPSK, 16QAM, 64QAM, 256QAM		
Supported Number of Carriers and Channel Bandwidth:	90/100 MHz bandwidth modes with up to 2CC max aggregated bandwidth of 190 MHz		
Supported Configurations:	Single carrier, Multi carrier		
Maximum Output Power	Max 400W/Unit		
RF Chain:	64T64R		
Antenna Gain:	User specific beam Max 25.5 dBi / beamwidth $12.5^{\circ} \pm 2^{\circ}$ Common Beam Max 18.3 dBi / beamwidth $65^{\circ} \pm 7^{\circ}$ Antenna gain declared by the manufacturer.		
Input Voltage:	DC -48V		

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3.3 Test Configuration

The setup is as follows:

- The EUT MMU (MT6428) and a Data Unit (DU) are each powered by -48V DC power supply.
- The DU is connected to a test laptop via an ethernet cable acting as backhaul.
- DU connects to the EUT through a fiber optic cable.
- An RF cable connects the signal analyzer and the EUT Ports for respective measurement.

The EUT was tested per the guidance of ANSI C63.26-2015 and KDB 971168 D01 v03r01. See Section 8.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

Distribution unit (DU) which were used in test, that authorized under the SDoC procedure.

The following information is about configurations of carrier frequency and output power per port declared by the manufacturer.

* Abbreviations:

- 1C: 1 single carrier
- 2C: Contiguous 2 carriers in multi-carrier operation
- 2NC: Non-Contiguous 2 carriers in multi-carrier operation

Configuration	No. of Carriers	Carrier Bandwidth (MHz)	Carrier Frequency Configuration (MHz)			Rated Conducted Power (W/Unit)
			Lowest	Middle	Highest	
NR_1C_90M	1	90	2541.0	2593.0	2645.0	400
NR_1C_100M	1	100	2546.0	2593.0	2640.0	
NR_2C_90 + 100M	2	190 (100 + 90)	2588.5	2590.5	2592.5	
NR_2NC_90 + 100M			2541.0 + 2640.0			

3.4 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added, and no modifications were made during testing.

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4.0 DESCRIPTION OF TESTS

4.1 Measurement Procedure

The measurement procedures described in the document titled “American National Standard for Compliance Testing of Transmitter Used in Licensed Radio Service” (ANSI C63.26-2015) and the guidance provided in KDB 971168 D01 v03r01, and KDB 662911 D01 v02r01 and KDB 940660 D01 v03 were used in the measurement of the EUT.

Occupied Bandwidth:

KDB 971168 D01 v03r01 – Section 4.3
ANSI C63.26-2015 – Section 5.4.4

Modulation Characteristics:

ANSI C63.26 - Section 5.3

Conducted Power Measurement and EIRP and PSD

KDB 971168 D01 v03r01 – Section 5.3
KDB 971168 D01 v03r01 – Section 5.4
KDB 662911 D01 v02r01 – Section E)1) In-Band Power Measurements
ANSI C63.26-2015 – Section 5.2.5
ANSI C63.26-2015 – Section 5.2.4

Peak-to-Average Power Ratio:

KDB 971168 D01 v03r01 – Section 5.7
ANSI C63.26-2015 – Section 5.2.3.4

Channel Edge Emissions at Antenna Terminal

KDB 971168 D01 v03r01 – Section 6
KDB 662911 D01 v02r01 – Section E)3) Out-of-Band and Spurious Emission Measurements
a) Absolute Emission Limits
iii) Measure and add $10 \log(N_{ANT})$ dB
ANSI C63.26-2015 – Section 5.7

Spurious and Harmonic Emissions at Antenna Terminal

KDB 971168 D01 v03r01 – Section 6
KDB 662911 D01 v02r01 – Section E)3) Out-of-Band and Spurious Emission Measurements
a) Absolute Emission Limits
iii) Measure and add $10 \log(N_{ANT})$ dB
ANSI C63.26-2015 – Section 5.7

Radiated unwanted emission

KDB 971168 D01 v03r01 – Section 7
ANSI C63.26-2015 – Section 5.8

Frequency Stability / Temperature Variation

KDB 971168 D01 v03r01 – Section 9
ANSI C63.26-2015 – Section 5.6

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4.2 Measurement Software

Test item	Name	Version
Conducted Measurement	Node B automation	1.0
Radiated Measurement	EP5RE	6.0.1.0
	ES10	10.001

4.3 Enviromental Conditions

The temperature is controlled within the range of 15°C to 35°C. The relative humidity is controlled within the range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

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5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Description	Uncertainty
Conducted Power Measurement and EIRP	1.5 dB (C.L. : Approx. 95%, $k = 2$)
Occupied bandwidth	0.1 MHz (C.L. : Approx. 95%, $k = 2$)
Peak-to-average power ratio	1.0 dB (C.L. : Approx. 95%, $k = 2$)
Band Edge Emissions at Antenna Terminal	3.0 dB (C.L. : Approx. 95%, $k = 2$)
Spurious and Harmonic Emissions at Antenna Terminal	3.0 dB (C.L. : Approx. 95%, $k = 2$)
Radiated Emissions ($f \leq 1$ GHz)	4.11 dB (C.L. : Approx. 95%, $k = 2$)
Radiated Emissions ($f > 1$ GHz)	4.64 dB (C.L. : Approx. 95%, $k = 2$)
Frequency Stability	0.1 kHz (C.L. : Approx. 95%, $k = 2$)

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6.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).
Measurement antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacture	Model	Description	Cal Date	Interval	Cal Due	Serial Number
Rohde & Schwarz	FSV30	SIGNAL ANALYZER	2024-11-26	Annual	2025-11-26	100925
Rohde & Schwarz	FSV40	SIGNAL ANALYZER	2025-01-10	Annual	2026-01-10	101574
Rohde & Schwarz	ESW44	EMI TEST RECEIVER	2025-04-28	Annual	2026-04-28	102039
TESEQ	CBL6111D	Bilog Antenna	2025-08-21	Annual	2027-08-21	60654
PASTERNAK	PE7AP006-06	Attenuator	2025-07-28	Annual	2026-07-28	L20210504000 023
SONOMA	310N	AMPLIFIER	2025-07-28	Annual	2026-07-28	411011
Agilent	8449B	Preamplifier	2025-03-11	Annual	2026-03-11	3008A00620
ETS-Lindgren	3115	DOUBLE RIDGED GUIDE ANTENNA	2025-03-13	Annual	2026-03-13	00078895
ESPEC	EBE-2E20W6P3T-38	Temperature Chamber	2025-04-28	Annual	2026-04-28	3015007507
Agilent	6674A	DC POWER SUPPLY	2025-03-13	Annual	2026-03-13	US36372372
Keysight	N9030B	Signal Analyzer	2025-03-28	Annual	2026-03-28	MY57142018
WAINWRIGHT	WHW-13000-18000-40000-40CC	High Pass Filter	2025-03-14	Annual	2026-03-14	0002
K&L MICROWAVE	11SH10-6200/T18000-O/O	High Pass Filter	2025-07-04	Annual	2026-07-04	00002
emtest	RLA29210010-40-F	Attenuator	2025-08-08	Annual	2026-08-08	RLA29210010-40-F-0001
BROADTEK	SM-32	SWITCH MATRIX	2025-03-18	Annual	2026-03-18	ey32t001
BROADTEK	SM-32	SWITCH MATRIX	2025-03-18	Annual	2026-03-18	ey32t002
AC POWER KOREA	ACPD-60150	DC Power Supply	2025-04-04	Annual	2026-04-04	DC-1
Qualwave	QFA1820-18-10-S	Attenuator	2025-08-08	Annual	2026-08-08	22265083 to 22265116 (34 EA)
RF ONE	RFHB1810SC10	Attenuator	2025-10-10	Annual	2026-10-10	RFHB1810SC10-0001 to RFHB1810SC10-0032 (32 EA)

Table 6-1. Test Equipment

Notes:

1. For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
2. All testing was performed before the calibration due date.

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7.0 SAMPLE CALCULATIONS

Emission Designator

QPSK Modulation

Emission Designator = 88M0G7D

Occupied Bandwidth = 87.96 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

QAM Modulation

Emission Designator = 88M0W7D

Occupied Bandwidth = 88.00 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

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8.0 TEST RESULTS

8.1 Summary

Company Name: SAMSUNG Electronics Co., Ltd.
FCC ID: A3LMT6428-41A
FCC Classification: Licensed Non-Broadcast Station Transmitter
Mode(s): NR

FCC Part Section(s)	Test Description	Limit	Test Condition	Test Result	Reference
§ 2.1049	Occupied Bandwidth	N/A	CONDUCTED	PASS	Section 8.2
§ 2.1046, § 27.50(h)	Equivalent Isotropic Radiated Power	< 33 dBW + 10log(X/Y) dBW		PASS	Section 8.3
§ 2.1051, § 27.53(m)	Band Edge Emissions at Antenna Terminal	< 43 + log10(P[Watts]) at Band Edge and all out-of-band emissions		PASS	Section 8.4
§ 2.1051, § 27.53(m)	Spurious and Harmonic Emissions at Antenna Terminal			PASS	Section 8.5
§ 2.1055 § 27.54	Frequency Stability	Fundamental emissions stay within authorized frequency block		PASS	Section 8.6
§ 2.1055, § 27.53(m)	Radiated unwanted emission	< 43 + log10(P[Watts]) at Band Edge and all out-of-band emissions	RADIATED	PASS	Section 8.7

Table 8-1. Summary of Test Results

Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots were all taken with a correction table loaded into the analyzer.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.



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8.2 Occupied Bandwidth

Test Overview

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. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 4.3

ANSI C63.26-2015 – Section 5.4.4

Test Setting

The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The spectrum analyzer settings were as follows:

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

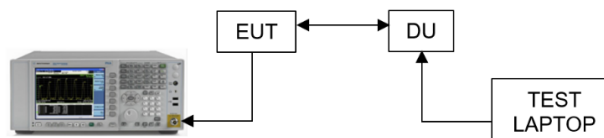


Figure 8-1. Test Instrument & Measurement Setup

Test Notes

None

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Channel	Port	OBW (MHz)			
		QPSK	16QAM	64QAM	256QAM
Low	0	87.54	87.64	87.61	87.84
	1	87.91	87.64	87.74	87.65
	2	87.53	87.63	87.57	87.67
	3	87.66	87.65	87.72	87.57
	4	87.70	87.66	87.72	87.51
	5	87.66	87.74	87.67	87.67
	6	87.62	87.73	87.57	87.66
	7	87.68	87.74	87.72	87.69
	8	87.68	87.79	87.68	87.79
	9	87.61	87.62	87.65	87.71
	10	87.53	87.72	87.58	87.55
	11	87.69	87.90	87.64	87.56
	12	87.58	87.76	87.60	87.66
	13	87.56	87.74	87.60	87.73
	14	87.75	87.88	87.64	87.67
	15	87.83	87.63	87.71	87.68
	16	87.77	87.65	87.41	87.78
	17	87.73	87.65	87.61	87.73
	18	87.58	87.57	87.59	87.83
	19	87.65	87.54	87.48	87.62
	20	87.68	87.55	87.79	87.73
	21	87.59	87.59	87.75	87.58
	22	87.50	87.54	87.83	87.68
	23	87.63	87.73	87.79	87.46
	24	87.90	87.77	87.51	87.65
	25	87.71	87.68	87.58	87.66
	26	87.59	87.51	87.63	87.57
	27	87.73	87.66	87.54	87.60
	28	87.68	87.49	87.77	87.97
	29	87.70	87.75	87.50	87.73
	30	87.59	87.71	87.64	87.56
	31	87.96	87.68	87.63	87.68
	32	87.87	87.71	87.69	87.71
	33	87.88	87.63	87.59	87.58
	34	87.79	87.66	87.62	87.59
	35	87.71	87.66	87.61	87.55
	36	87.70	87.66	87.55	87.79
	37	87.70	87.82	87.68	87.69
	38	87.64	87.67	87.55	87.70
	39	87.65	87.49	87.66	87.86
	40	87.67	87.78	87.66	87.75
	41	87.70	87.71	87.64	87.69
	42	87.62	87.67	87.58	87.85
	43	87.59	87.61	87.73	87.73
	44	87.58	87.63	87.59	87.78
	45	87.60	87.76	87.67	87.68
	46	87.70	87.59	87.59	87.58
	47	87.67	87.73	87.70	87.73
	48	87.85	87.69	87.54	87.52
	49	87.55	87.73	87.62	87.57
	50	87.60	87.64	87.65	87.64
	51	87.71	87.60	87.73	87.76
	52	87.80	87.68	87.58	87.84
	53	87.56	87.70	87.58	87.67
	54	87.65	87.70	87.59	87.82
	55	87.67	87.61	87.62	87.65
	56	87.66	87.63	87.52	87.66
	57	87.80	87.53	87.60	87.57
	58	87.62	87.51	87.54	87.69
	59	87.69	87.65	87.68	87.72
	60	87.53	87.81	87.71	87.58
	61	87.59	87.84	87.75	87.53
	62	87.58	87.73	87.58	87.59
	63	87.70	87.84	87.55	87.68

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Channel	Port	OBW (MHz)			
		QPSK	16QAM	64QAM	256QAM
Middle	0	87.76	87.80	87.59	87.62
	1	87.75	87.63	87.65	87.59
	2	87.71	87.72	87.63	87.76
	3	87.70	87.65	87.53	87.70
	4	87.64	87.66	87.71	87.63
	5	87.68	87.52	87.68	87.70
	6	87.75	87.67	87.66	87.62
	7	87.83	87.83	87.65	87.68
	8	87.78	87.74	87.62	87.60
	9	87.56	87.57	87.61	87.56
	10	87.64	87.71	87.61	87.66
	11	87.60	87.68	87.59	87.82
	12	87.75	87.71	87.49	87.74
	13	87.85	87.68	87.69	87.65
	14	87.78	87.81	87.53	87.63
	15	87.50	87.71	87.79	87.73
	16	87.67	87.69	87.78	87.67
	17	87.82	87.82	87.65	87.70
	18	87.68	87.61	87.70	87.60
	19	87.85	87.69	87.69	87.49
	20	87.64	87.71	87.55	87.76
	21	87.52	87.80	87.68	87.61
	22	87.63	87.71	87.73	87.74
	23	87.80	87.56	87.71	87.61
	24	87.75	87.74	87.58	87.70
	25	87.65	87.53	87.73	87.63
	26	87.62	87.76	87.71	87.71
	27	87.60	87.66	87.53	87.67
	28	87.75	87.70	87.79	87.67
	29	87.59	87.80	87.68	87.75
	30	87.73	87.66	87.67	87.68
	31	87.75	87.71	87.68	87.59
	32	87.74	87.51	87.74	87.74
	33	87.84	87.73	87.65	87.82
	34	87.85	87.77	87.50	87.58
	35	87.70	87.82	87.69	87.77
	36	87.77	87.73	87.57	87.63
	37	87.79	87.84	87.44	87.66
	38	87.94	87.83	87.74	87.66
	39	87.73	87.62	87.65	87.54
	40	87.74	87.65	87.55	87.72
	41	87.74	87.74	87.59	87.69
	42	87.74	87.76	87.57	87.63
	43	87.55	87.54	87.50	87.79
	44	87.75	87.71	87.63	87.65
	45	87.56	87.78	87.59	87.70
	46	87.50	87.76	87.63	87.58
	47	87.59	87.75	87.81	87.83
	48	87.57	87.59	87.59	87.89
	49	87.63	87.80	87.60	87.78
	50	87.60	87.76	87.59	87.64
	51	87.83	87.79	87.64	87.64
	52	87.58	87.76	87.61	87.82
	53	87.80	87.66	87.63	87.67
	54	87.79	87.77	87.62	87.56
	55	87.70	87.57	87.73	87.89
	56	87.85	87.70	87.70	87.62
	57	87.72	87.74	87.78	87.74
	58	87.66	87.55	87.59	87.55
	59	87.60	87.67	87.74	87.71
	60	87.74	87.81	87.72	87.73
	61	87.76	87.80	87.54	87.65
	62	87.70	87.80	87.65	87.61
	63	87.82	87.71	87.77	87.63

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Channel	Port	OBW (MHz)			
		QPSK	16QAM	64QAM	256QAM
High	0	87.66	87.52	87.76	87.65
	1	87.81	87.74	87.76	87.61
	2	87.61	87.67	87.73	87.78
	3	87.73	87.98	87.69	87.68
	4	87.66	87.80	87.60	87.70
	5	87.62	87.60	87.68	87.58
	6	87.76	87.64	87.85	87.79
	7	87.67	87.56	87.65	87.70
	8	87.74	87.89	87.66	87.71
	9	87.72	87.83	87.70	87.65
	10	87.75	87.63	87.70	87.61
	11	87.77	87.71	87.68	87.64
	12	87.68	87.61	87.61	87.77
	13	87.91	87.72	87.68	87.70
	14	87.65	87.65	87.69	87.71
	15	87.67	87.57	87.60	87.48
	16	87.57	87.73	87.81	87.83
	17	87.82	87.87	87.64	87.70
	18	87.55	87.70	87.58	87.58
	19	87.85	87.65	87.74	87.67
	20	87.78	87.66	87.66	87.69
	21	87.77	87.76	87.64	87.77
	22	87.77	87.70	87.69	87.70
	23	87.75	87.63	87.68	87.60
	24	87.82	87.73	87.73	87.75
	25	87.73	87.75	87.79	87.82
	26	87.77	87.61	87.64	87.71
	27	87.73	87.56	87.49	87.73
	28	87.86	87.67	87.83	87.54
	29	87.58	87.68	87.60	87.83
	30	87.65	87.71	87.72	87.70
	31	87.80	87.71	87.74	87.76
	32	87.76	87.64	87.66	87.68
	33	87.76	87.64	87.67	87.68
	34	87.75	87.68	87.61	87.59
	35	87.69	87.84	87.67	87.63
	36	87.78	87.70	87.56	87.62
	37	87.64	87.67	87.73	87.72
	38	87.81	87.73	87.72	87.73
	39	87.67	87.65	87.70	87.63
	40	87.67	87.71	87.70	87.60
	41	87.75	87.61	87.59	88.00
	42	87.68	87.83	87.61	87.67
	43	87.64	87.56	87.66	87.68
	44	87.61	87.62	87.69	87.61
	45	87.74	87.67	87.59	87.73
	46	87.91	87.93	87.64	87.73
	47	87.67	87.66	87.77	87.76
	48	87.58	87.83	87.66	87.71
	49	87.56	87.85	87.79	87.56
	50	87.65	87.63	87.69	87.70
	51	87.79	87.68	87.65	87.77
	52	87.70	87.62	87.60	87.54
	53	87.59	87.82	87.72	87.66
	54	87.79	87.73	87.61	87.79
	55	87.76	87.62	87.67	87.82
	56	87.73	87.86	87.57	87.71
	57	87.58	87.69	87.87	87.80
	58	87.83	87.60	87.59	87.58
	59	87.75	87.75	87.62	87.69
	60	87.70	87.75	87.84	87.66
	61	87.75	87.75	87.60	87.62
	62	87.58	87.69	87.78	87.50
	63	87.59	87.59	87.69	87.68

Table 8-2. Occupied Bandwidth Summary Data (NR_1C_90M)

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Channel	Port	OBW (MHz)			
		QPSK	16QAM	64QAM	256QAM
Low	0	97.43	97.53	97.56	97.68
	1	97.57	97.44	97.51	97.54
	2	97.56	97.63	97.61	97.62
	3	97.58	97.68	97.65	97.64
	4	97.48	97.57	97.58	97.71
	5	97.52	97.34	97.56	97.55
	6	97.41	97.56	97.51	97.64
	7	97.61	97.58	97.50	97.63
	8	97.53	97.44	97.55	97.53
	9	97.80	97.55	97.58	97.59
	10	97.49	97.64	97.54	97.49
	11	97.67	97.48	97.48	97.49
	12	97.61	97.67	97.48	97.62
	13	97.65	97.56	97.61	97.49
	14	97.55	97.48	97.41	97.56
	15	97.68	97.52	97.64	97.78
	16	97.53	97.52	97.54	97.50
	17	97.64	97.56	97.69	97.41
	18	97.52	97.56	97.45	97.57
	19	97.55	97.58	97.67	97.55
	20	97.55	97.56	97.51	97.61
	21	97.53	97.50	97.53	97.61
	22	97.56	97.45	97.66	97.50
	23	97.55	97.62	97.60	97.68
	24	97.59	97.58	97.57	97.69
	25	97.57	97.52	97.40	97.65
	26	97.50	97.54	97.58	97.64
	27	97.54	97.51	97.56	97.83
	28	97.58	97.61	97.60	97.45
	29	97.61	97.47	97.53	97.77
	30	97.74	97.56	97.57	97.59
	31	97.31	97.47	97.41	97.53
	32	97.50	97.54	97.64	97.39
	33	97.66	97.61	97.45	97.66
	34	97.63	97.60	97.59	97.60
	35	97.65	97.41	97.61	97.85
	36	97.60	97.63	97.49	97.61
	37	97.66	97.66	97.47	97.51
	38	97.51	97.57	97.55	97.78
	39	97.66	97.36	97.56	97.55
	40	97.46	97.63	97.65	97.53
	41	97.59	97.46	97.66	97.68
	42	97.70	97.55	97.54	97.69
	43	97.53	97.53	97.64	97.59
	44	97.63	97.44	97.56	97.59
	45	97.54	97.62	97.85	97.47
	46	97.37	97.52	97.89	97.60
	47	97.60	97.55	97.80	97.57
	48	97.53	97.43	97.69	97.50
	49	97.56	97.62	97.59	97.74
	50	97.55	97.35	97.60	97.50
	51	97.67	97.62	97.65	97.79
	52	97.46	97.43	97.56	97.75
	53	97.59	97.62	97.55	97.52
	54	97.59	97.56	97.60	97.63
	55	97.47	97.49	97.60	97.56
	56	97.52	97.57	97.61	97.60
	57	97.70	97.56	97.56	97.40
	58	97.57	97.51	97.74	97.56
	59	97.61	97.64	97.69	97.92
	60	97.73	97.54	97.63	97.62
	61	97.53	97.49	97.54	97.58
	62	97.62	97.68	97.59	97.61
	63	97.55	97.63	97.63	97.59

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Channel	Port	OBW (MHz)			
		QPSK	16QAM	64QAM	256QAM
Middle	0	97.50	97.54	97.62	97.49
	1	97.58	97.70	97.64	97.61
	2	97.50	97.55	97.68	97.76
	3	97.44	97.65	97.63	97.68
	4	97.76	97.49	97.72	97.60
	5	97.51	97.64	97.57	97.46
	6	97.52	97.50	97.63	97.59
	7	97.59	97.52	97.70	97.62
	8	97.58	97.64	97.68	97.58
	9	97.57	97.64	97.62	97.61
	10	97.60	97.46	97.69	97.60
	11	97.40	97.49	97.71	97.51
	12	97.59	97.51	97.47	97.57
	13	97.70	97.66	97.63	97.59
	14	97.72	97.62	97.71	97.49
	15	97.46	97.54	97.60	97.63
	16	97.56	97.54	97.75	97.72
	17	97.66	97.51	97.59	97.53
	18	97.64	97.68	97.64	97.59
	19	97.59	97.56	97.52	97.54
	20	97.60	97.52	97.70	97.68
	21	97.67	97.60	97.44	97.71
	22	97.80	97.64	97.68	97.66
	23	97.56	97.57	97.52	97.60
	24	97.49	97.58	97.52	97.63
	25	97.55	97.44	97.74	97.55
	26	97.60	97.58	97.58	97.71
	27	97.66	97.68	97.62	97.57
	28	97.62	97.52	97.49	97.56
	29	97.59	97.50	97.53	97.70
	30	97.68	97.74	97.62	97.61
	31	97.61	97.76	97.51	97.64
	32	97.66	97.33	97.72	97.80
	33	97.41	97.52	97.42	97.58
	34	97.48	97.56	97.65	97.60
	35	97.52	97.71	97.55	97.66
	36	97.83	97.66	97.69	97.77
	37	97.58	97.70	97.60	97.59
	38	97.70	97.70	97.57	97.65
	39	97.62	97.72	97.78	97.57
	40	97.52	97.60	97.68	97.75
	41	97.60	97.59	97.57	97.61
	42	97.57	97.65	97.72	97.59
	43	97.66	97.58	97.57	97.58
	44	97.74	97.52	97.68	97.47
	45	97.51	97.67	97.61	97.57
	46	97.67	97.69	97.55	97.68
	47	97.48	97.55	97.54	97.68
	48	97.65	97.63	97.65	97.46
	49	97.62	97.60	97.48	97.66
	50	97.53	97.56	97.60	97.52
	51	97.55	97.74	97.73	97.51
	52	97.70	97.63	97.55	97.58
	53	97.54	97.56	97.56	97.66
	54	97.45	97.57	97.60	97.51
	55	97.61	97.66	97.59	97.54
	56	97.61	97.84	97.56	97.62
	57	97.56	97.69	97.80	97.46
	58	97.56	97.58	97.49	97.62
	59	97.50	97.55	97.75	97.66
	60	97.46	97.58	97.57	97.58
	61	97.68	97.63	97.54	97.67
	62	97.64	97.61	97.61	97.59
	63	97.62	97.71	97.60	97.69

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Channel	Port	OBW (MHz)			
		QPSK	16QAM	64QAM	256QAM
High	0	97.57	97.53	97.60	97.62
	1	97.68	97.69	97.63	97.66
	2	97.77	97.56	97.57	97.61
	3	97.52	97.71	97.70	97.65
	4	97.75	97.56	97.52	97.53
	5	97.67	97.61	97.75	97.53
	6	97.53	97.64	97.56	97.43
	7	97.65	97.55	97.68	97.57
	8	97.52	97.48	97.51	97.74
	9	97.57	97.59	97.53	97.49
	10	97.62	97.55	97.64	97.49
	11	97.65	97.75	97.53	97.63
	12	97.63	97.55	97.69	97.73
	13	97.76	97.67	97.70	97.64
	14	97.52	97.56	97.55	97.49
	15	97.66	97.48	97.67	97.62
	16	97.60	97.61	97.80	97.56
	17	97.62	97.74	97.55	97.71
	18	97.68	97.43	97.71	97.52
	19	97.61	97.70	97.60	97.61
	20	97.56	97.57	97.58	97.61
	21	97.49	97.52	97.62	97.63
	22	97.56	97.60	97.86	97.73
	23	97.67	97.58	97.66	97.44
	24	97.43	97.56	97.57	97.45
	25	97.46	97.75	97.57	97.73
	26	97.57	97.59	97.71	97.71
	27	97.55	97.66	97.45	97.47
	28	97.71	97.61	97.59	97.66
	29	97.52	97.69	97.64	97.65
	30	97.67	97.52	97.63	97.52
	31	97.58	97.76	97.63	97.63
	32	97.49	97.53	97.54	97.55
	33	97.64	97.53	97.59	97.61
	34	97.56	97.55	97.63	97.44
	35	97.48	97.54	97.58	97.58
	36	97.70	97.84	97.51	97.60
	37	97.43	97.63	97.70	97.52
	38	97.61	97.71	97.72	97.53
	39	97.70	97.77	97.61	97.76
	40	97.48	97.62	97.67	97.61
	41	97.51	97.77	97.59	97.69
	42	97.71	97.63	97.63	97.58
	43	97.50	97.59	97.58	97.63
	44	97.66	97.73	97.55	97.57
	45	97.63	97.56	97.57	97.80
	46	97.65	97.51	97.50	97.58
	47	97.54	97.66	97.61	97.73
	48	97.71	97.72	97.65	97.61
	49	97.77	97.49	97.54	97.64
	50	97.68	97.47	97.68	97.69
	51	97.46	97.61	97.50	97.58
	52	97.37	97.54	97.57	97.48
	53	97.69	97.56	97.85	97.62
	54	97.59	97.65	97.56	97.64
	55	97.65	97.60	97.60	97.65
	56	97.51	97.52	97.62	97.58
	57	97.71	97.70	97.62	97.57
	58	97.64	97.69	97.64	97.54
	59	97.57	97.61	97.54	97.59
	60	97.51	97.60	97.58	97.52
	61	97.79	97.66	97.56	97.79
	62	97.76	97.49	97.44	97.59
	63	97.63	97.66	97.46	97.62

Table 8-3. Occupied Bandwidth Summary Data (NR_1C_100M)



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Channel	Port	OBW (MHz)	
		QPSK	16QAM
Low	4	186.21	186.31
	43	186.50	186.49
	55	186.34	186.21
	56	186.50	186.31
Middle	4	186.27	186.48
	43	186.39	186.37
	55	186.39	186.16
	56	186.21	186.22
High	4	186.17	186.17
	43	186.39	186.42
	55	186.48	186.55
	56	186.50	186.32

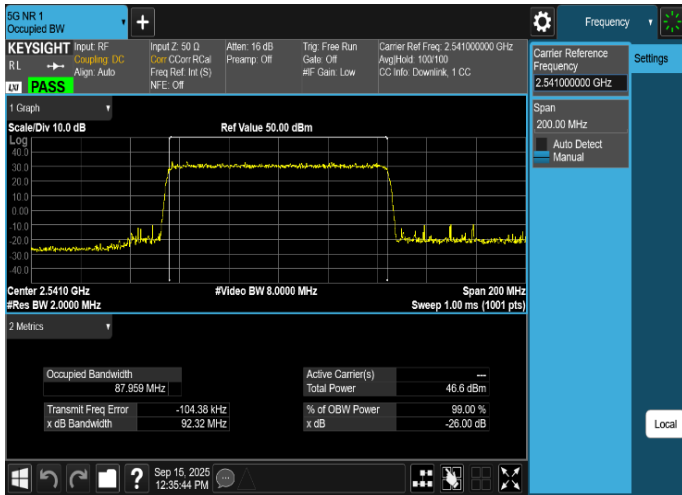
Table 8-4. Occupied Bandwidth Summary Data (NR_2C_90M+100M)



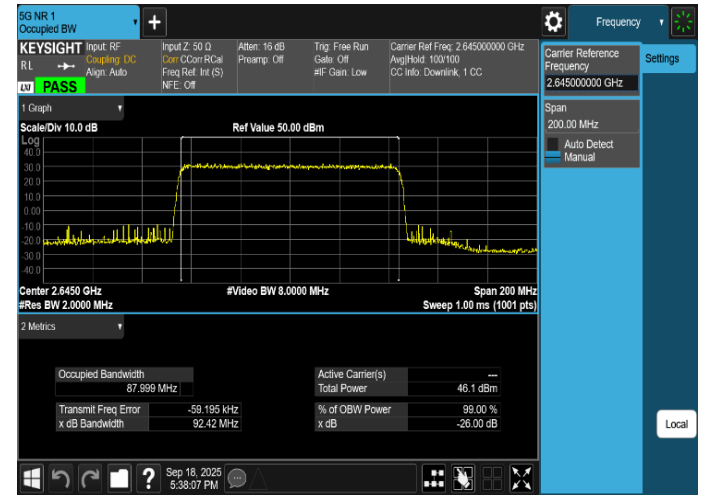
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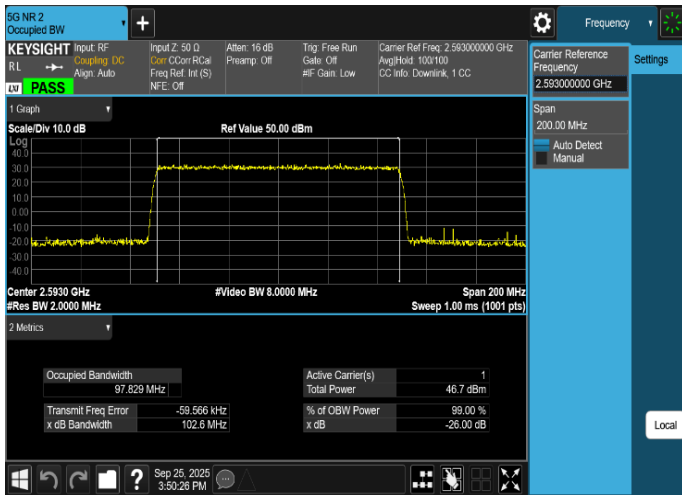
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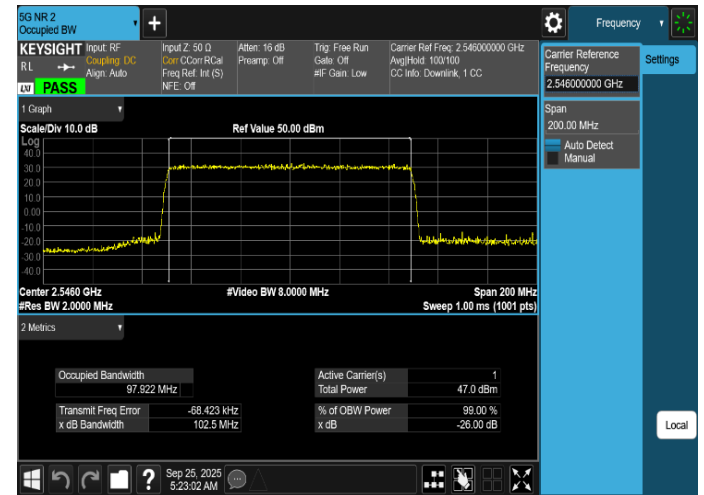
Plot 8-1. Occupied Bandwidth Plot
(NR_1C_90M_QPSK - Low Channel, Port 31)



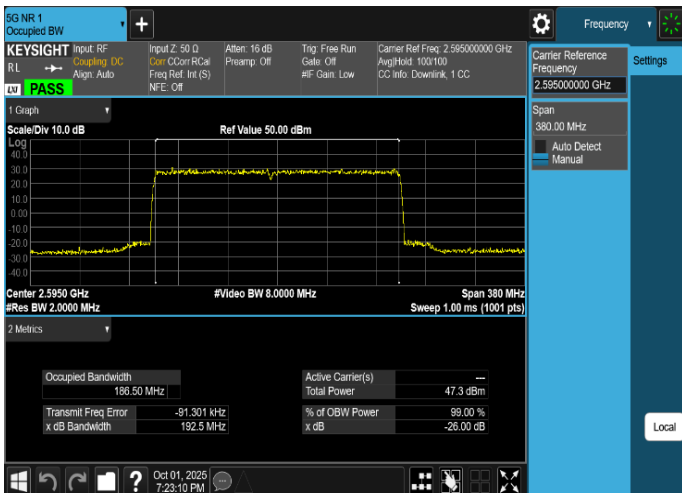
Plot 8-2. Occupied Bandwidth Plot
(NR_1C_90M_256QAM - High Channel, Port 41)



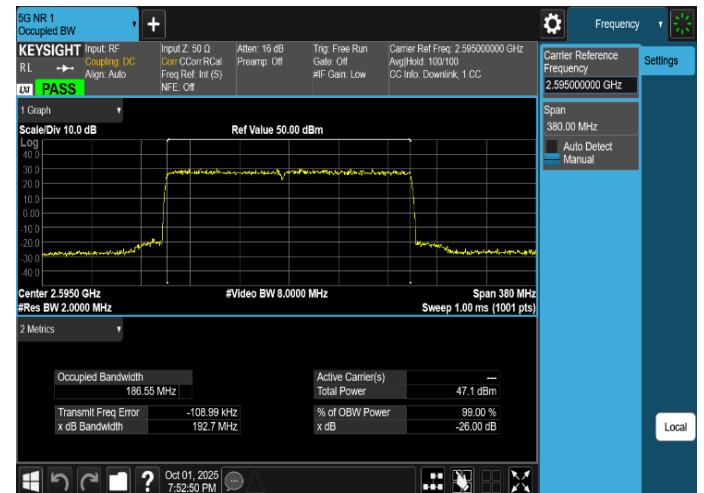
Plot 8-3. Occupied Bandwidth Plot
(NR_1C_100M_QPSK - Mid Channel, Port 36)



Plot 8-4. Occupied Bandwidth Plot
(NR_1C_100M_256QAM - Low Channel, Port 59)



Plot 8-5. Occupied Bandwidth Plot
(NR_2C_90M+100M_QPSK - High Channel, Port 56)



Plot 8-6. Occupied Bandwidth Plot
(NR_2C_90M+100M_16QAM - High Channel, Port 55)

8.3 Equivalent Isotropic Radiated Power

Test Overview

A transmitter port of EUT is connected to the input of a signal analyzer. 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.

Test Description

KDB 971168 D01 v03r01 – Section 5

KDB 662911 D01 v02r01 – Section E)1) In-Band Power Measurements

ANSI C63.26-2015 – Section 5.2.4.4.1

The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The spectrum analyzer settings were as follows:

1. Conducted power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 ~ 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Span = 2 ~ 3 x OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trigger Settings is set to "RF Power" for signals with non-continuous operation with the sweep times set to "auto".
8. Trace mode = Trace-Averaging (RMS) set to average over 100 sweeps
9. The trace was allowed to stabilize
10. The relevant equation for determining the maximum EIRP from the measured RF output power is given in Equation as follows:

$$\text{EIRP} = P_{\text{Meas}} + G_T$$
 where
 GT: gain of the transmitting antenna, in dBi (EIRP).

Test Setup

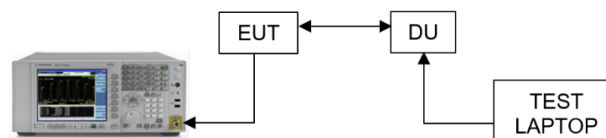


Figure 8-2. Test Instrument & Measurement Setup

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Limit**§ 27.50(h)(ii)**

If a main or booster station sectorizes or otherwise uses one or more transmitting antennas with a non-omnidirectional horizontal plane radiation pattern, the maximum EIRP in dBW in a given direction shall be determined by the following formula: $EIRP = 33 \text{ dBW} + 10 \log(X/Y) \text{ dBW} + 10 \log(360/\text{beamwidth}) \text{ dBW}$, where X is the actual channel width in MHz, Y is either (i) 6 MHz if prior to transition or the station is in the MBS following transition or (ii) 5.5 MHz if the station is in the LBS and UBS following transition, and beamwidth is the total horizontal plane beamwidth of the individual transmitting antenna for the station or any sector measured at the half-power points.

Note: Compliance measurements can be performed for EBS/BRS devices operating under 27.50(h) using either peak or average techniques; however, if average is used, then a PAPR of less than or equal to 13 dB must also be demonstrated.

Test Notes**1. Sample Limit Calculation**

EIRP = 33 dBW + 10 log(X/Y) dBW + 10 log(360/beamwidth) dBW					
Mode	X (Actual channel width in MHz)	Y	Beam width	Sample calculation	limit (dBm)
NR_1C_90M	87.99	6	14.5	$33 \text{ dBW} + 10 \log(87.99/6) \text{ dBW} + 10 \log(360/14.5) \text{ dBW}$	88.61
NR_1C_100M	97.92			$33 \text{ dBW} + 10 \log(97.92/6) \text{ dBW} + 10 \log(360/14.5) \text{ dBW}$	89.07
NR_2C_90M+ 100M	186.55			$33 \text{ dBW} + 10 \log(186.55/6) \text{ dBW} + 10 \log(360/14.5) \text{ dBW}$	91.87

2. The EIRP test was performed using the average power measurement technique, and the PAPR result is less than or equal to 13 dB.

Mode	PAPR (dB)			
	QPSK	16QAM	64QAM	256QAM
NR_1C_90M	7.54	7.52	7.54	7.54
NR_1C_100M	7.54	7.55	7.54	7.56

3. Periodic trigger was used with gating ON. Gate sweeptime, Gate delay and gate length were set accordingly to capture ON time of the transmission.
4. Consider the following factors for MIMO:
The output power per each port is measured as dBm/MHz or dBm, the output powers are summed up in linear using the measure-and-sum technique defined in KDB 971168 D01 v03r01 - Section E) 2).
5. The output power per port (dBm/MHz or dBm) is converted to a linear value (mW). A summation of linear powers for all ports gives us the total MIMO Conducted Power (mW). We convert this back to logarithmic scale for further output power calculations.

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6. Sample EIRP Calculation:

Let us assume the following numbers:

Total MIMO Conducted Power as 427543.56 mW

Factors		Value	Unit
Summed MIMO Conducted Power (linear sum)		427543.56	mW
Summed MIMO Conducted Power (dBm)	$= 10 * \log (427543.56) =$	56.31	dBm
Antenna Gain		25.5	dBi
Total e.i.r.p. Power = Total MIMO Conducted Power + Antenna Gain =		81.81	dBm
Limit		88.61	dBm
Margin = Limit - Total Power	$= 81.81 - 88.61 =$	- 6.8	dB

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Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	0	38.54	38.59	38.55	38.59
	1	38.37	38.48	38.46	38.57
	2	38.04	38.06	38.04	38.10
	3	38.07	38.16	38.21	38.13
	4	38.65	38.71	38.78	38.89
	5	37.71	37.65	37.73	37.82
	6	38.22	38.13	38.20	38.27
	7	38.15	38.16	38.16	38.34
	8	38.42	38.49	38.53	38.59
	9	37.93	37.92	38.10	38.16
	10	37.96	38.07	38.06	38.03
	11	38.22	38.33	38.33	38.37
	12	38.14	38.15	38.30	38.42
	13	38.09	38.03	38.16	38.29
	14	37.69	37.69	37.77	37.72
	15	38.13	38.24	38.22	38.16
	16	38.22	38.11	38.17	38.23
	17	38.00	38.03	38.02	38.14
	18	37.76	37.68	37.82	37.84
	19	38.07	37.99	37.96	38.24
	20	38.31	38.24	38.23	38.45
	21	37.94	37.98	37.86	38.11
	22	37.76	37.69	37.65	37.77
	23	38.17	37.98	38.02	38.17
	24	38.15	38.08	38.06	38.17
	25	38.16	38.14	38.07	38.29
	26	37.97	37.98	37.99	38.00
	27	38.34	38.05	38.06	38.38
	28	38.26	38.22	38.19	38.31
	29	38.14	38.11	38.18	38.41
	30	38.08	37.93	37.99	38.09
	31	38.19	37.97	38.06	38.11
	32	38.08	38.03	37.98	38.16
	33	38.15	37.95	38.08	38.25
	34	37.95	37.95	38.00	38.13
	35	38.24	38.03	38.27	38.27
	36	38.15	38.10	38.24	38.34

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	37	38.23	38.16	38.23	38.34
	38	38.27	38.21	38.11	38.18
	39	38.34	38.35	38.16	38.36
	40	38.06	38.03	38.01	38.08
	41	38.02	37.96	38.00	38.09
	42	38.23	38.04	38.07	38.04
	43	38.55	38.54	38.50	38.40
	44	38.06	38.12	38.07	38.03
	45	37.91	37.87	37.90	38.00
	46	38.08	37.88	37.93	37.89
	47	38.30	38.16	38.22	38.21
	48	38.20	38.16	38.12	38.14
	49	38.24	38.04	38.05	38.17
	50	38.30	38.17	38.19	38.23
	51	38.41	38.25	38.35	38.28
	52	38.61	38.44	38.53	38.44
	53	38.28	38.27	38.08	38.21
	54	38.61	38.46	38.62	38.73
	55	38.87	38.84	38.80	38.93
	56	38.96	38.77	38.89	38.82
	57	38.68	38.47	38.45	38.60
	58	38.83	38.52	38.67	38.71
	59	38.85	38.73	38.81	38.78
	60	38.75	38.67	38.68	38.64
	61	38.40	38.10	38.11	38.26
	62	38.25	38.16	38.11	38.24
	63	38.58	38.29	38.40	38.47
Total Conducted Power (mW)		427543.56	420532.33	423294.89	430947.81
Total Conducted Power (dBm)		56.31	56.24	56.27	56.34
Antenna Gain (dBi)		25.50	25.50	25.50	25.50
Total MIMO EIRP (dBm)		81.81	81.74	81.77	81.84
Limit (dBm)		88.61			

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Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	0	38.35	38.42	38.67	38.70
	1	38.18	38.41	38.48	38.64
	2	37.92	38.02	38.12	38.09
	3	37.84	38.17	38.31	38.28
	4	38.58	38.73	38.84	38.86
	5	37.50	37.60	37.82	37.78
	6	38.17	38.28	38.39	38.26
	7	37.93	38.20	38.29	38.21
	8	38.33	38.42	38.59	38.55
	9	37.82	37.93	38.08	38.06
	10	37.88	38.01	38.11	38.08
	11	38.01	38.25	38.45	38.33
	12	38.17	38.20	38.35	38.37
	13	37.92	38.04	38.16	38.20
	14	37.71	37.74	37.80	37.80
	15	37.93	38.21	38.29	38.27
	16	38.07	38.13	38.27	38.27
	17	37.81	38.12	38.14	38.10
	18	37.75	37.89	37.91	37.84
	19	37.81	37.98	38.11	38.17
	20	37.99	38.17	38.26	38.24
	21	37.82	37.97	38.01	37.99
	22	37.76	37.80	37.78	37.81
	23	37.90	38.09	38.26	38.02
	24	37.95	38.04	38.24	38.12
	25	37.86	38.01	38.15	38.11
	26	37.82	37.87	38.07	37.99
	27	37.94	38.17	38.36	38.17
	28	38.00	38.21	38.33	38.20
	29	38.00	38.08	38.26	38.17
	30	37.89	38.06	38.09	38.09
	31	37.99	38.02	38.21	38.18
	32	37.93	38.06	38.15	38.13
	33	37.89	38.03	38.15	38.18
	34	37.87	37.91	37.95	37.97
	35	38.07	38.20	38.20	38.16
	36	38.16	38.19	38.31	38.24

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	37	38.07	38.24	38.18	38.36
	38	38.09	38.26	38.28	38.20
	39	38.01	38.21	38.23	38.28
	40	37.85	38.04	38.03	38.20
	41	37.87	37.97	38.05	38.11
	42	37.89	38.07	38.11	38.25
	43	38.31	38.47	38.63	38.59
	44	37.93	38.13	38.15	38.09
	45	37.80	38.01	37.98	37.95
	46	37.82	37.83	38.03	37.93
	47	38.18	38.17	38.26	38.24
	48	38.03	38.08	38.23	38.25
	49	38.09	38.23	38.23	38.32
	50	38.03	38.12	38.27	38.24
	51	38.22	38.29	38.35	38.41
	52	38.45	38.44	38.56	38.58
	53	38.11	38.09	38.21	38.27
	54	38.57	38.48	38.65	38.65
	55	38.73	38.77	38.81	38.86
	56	38.64	38.85	38.89	38.86
	57	38.46	38.44	38.57	38.62
	58	38.53	38.56	38.63	38.73
	59	38.69	38.67	38.83	38.72
	60	38.50	38.58	38.72	38.70
	61	38.01	37.95	38.11	38.26
	62	37.99	38.00	38.14	38.26
	63	38.32	38.22	38.38	38.32
Total Conducted Power (mW)		409994.54	420480.53	430740.68	429874.70
Total Conducted Power (dBm)		56.13	56.24	56.34	56.33
Antenna Gain (dBi)		25.50	25.50	25.50	25.50
Total MIMO EIRP (dBm)		81.63	81.74	81.84	81.83
Limit (dBm)		88.61			

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Channel	Port	QPSK	16QAM	64QAM	256QAM
High	0	38.24	38.10	38.26	38.25
	1	38.19	38.06	38.32	38.10
	2	37.88	37.75	38.00	37.90
	3	37.92	37.86	38.05	37.92
	4	38.52	38.40	38.56	38.44
	5	37.54	37.34	37.58	37.53
	6	38.01	37.94	38.05	37.98
	7	37.97	37.85	38.03	37.97
	8	38.27	38.07	38.27	38.14
	9	37.89	37.81	37.93	37.70
	10	37.70	37.56	37.74	37.63
	11	38.12	37.99	38.18	37.99
	12	38.17	38.04	38.26	38.14
	13	38.17	38.01	38.10	38.00
	14	37.76	37.63	37.69	37.57
	15	38.13	37.93	38.09	38.12
	16	38.03	37.92	38.14	37.93
	17	37.85	37.72	37.96	37.72
	18	37.58	37.56	37.69	37.54
	19	37.89	37.83	37.88	37.72
	20	37.95	37.76	37.89	37.84
	21	37.75	37.56	37.68	37.58
	22	37.60	37.48	37.56	37.51
	23	38.00	37.74	38.00	37.84
	24	38.07	37.87	37.97	38.02
	25	37.95	37.98	37.94	37.85
	26	37.61	37.63	37.58	37.55
	27	37.96	37.65	37.84	37.75
	28	38.08	37.97	38.06	38.05
	29	38.03	37.89	37.94	38.13
	30	37.86	37.75	37.82	37.76
	31	38.06	37.89	38.05	38.04
	32	37.89	37.76	37.94	37.80
	33	37.93	37.73	37.96	37.83
	34	37.82	37.77	37.82	37.73
	35	38.05	37.91	38.13	38.06
	36	38.04	38.01	38.09	38.04

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	37	38.14	38.00	38.15	38.08
	38	37.89	37.84	37.98	37.88
	39	37.99	37.92	38.01	37.93
	40	38.03	37.90	37.98	37.79
	41	37.85	37.78	37.82	37.85
	42	37.78	37.73	37.88	37.85
	43	38.22	38.14	38.19	38.09
	44	38.07	37.84	37.99	38.05
	45	37.93	37.87	37.90	37.73
	46	37.84	37.70	37.85	37.89
	47	38.12	37.97	38.00	37.89
	48	38.04	37.89	38.09	37.83
	49	38.05	37.99	38.06	37.97
	50	38.05	37.87	37.95	37.77
	51	38.21	38.02	38.13	38.03
	52	38.26	37.98	38.15	38.19
	53	38.02	37.74	37.91	37.89
	54	38.30	38.31	38.27	38.17
	55	38.67	38.44	38.59	38.41
	56	38.74	38.53	38.65	38.61
	57	38.46	38.26	38.47	38.42
	58	38.20	38.16	38.14	38.19
	59	38.31	38.09	38.23	38.21
	60	38.44	38.35	38.43	38.55
	61	37.91	37.78	37.85	37.84
	62	37.82	37.81	37.81	37.71
	63	38.03	37.89	38.04	37.93
Total Conducted Power (mW)		407111.92	395034.35	406663.77	399265.84
Total Conducted Power (dBm)		56.10	55.97	56.09	56.01
Antenna Gain (dBi)		25.50	25.50	25.50	25.50
Total MIMO EIRP (dBm)		81.60	81.47	81.59	81.51
Limit (dBm)		88.61			

Table 8-5. Equivalent Isotropic Radiated Power Table (NR_1C_90M)

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Channel	Port	QPSK	16QAM	64QMA	256QAM
Low	0	38.67	38.58	38.70	38.56
	1	38.47	38.25	38.49	38.36
	2	38.18	37.98	38.12	38.09
	3	38.12	38.06	38.29	38.07
	4	38.90	38.75	38.94	38.80
	5	37.67	37.47	37.69	37.55
	6	38.30	38.12	38.38	38.13
	7	38.18	38.05	38.30	38.06
	8	38.63	38.34	38.58	38.44
	9	38.19	37.87	38.04	37.87
	10	38.19	37.98	38.23	38.09
	11	38.42	38.29	38.37	38.23
	12	38.44	38.35	38.45	38.18
	13	38.22	38.08	38.31	38.01
	14	38.03	37.79	37.86	37.81
	15	38.36	38.12	38.36	38.20
	16	38.36	38.20	38.40	38.24
	17	38.21	38.06	38.14	38.10
	18	37.96	37.73	37.92	37.89
	19	38.07	37.89	38.05	37.83
	20	38.32	38.10	38.31	38.03
	21	38.00	37.83	38.06	37.90
	22	37.85	37.70	37.82	37.66
	23	38.17	37.92	38.19	37.97
	24	38.30	38.09	38.23	37.95
	25	38.22	38.19	38.23	37.94
	26	38.04	37.93	38.10	37.86
	27	38.24	38.12	38.21	38.05
	28	38.26	38.13	38.30	38.04
	29	38.38	38.12	38.31	38.03
	30	38.17	38.08	38.04	37.88
	31	38.13	37.92	38.12	37.96
	32	38.15	38.10	38.14	37.99
	33	38.14	38.02	38.26	38.04
	34	38.12	37.86	38.04	37.88
	35	38.26	38.18	38.27	38.14
	36	38.35	38.12	38.30	38.14

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	37	38.26	38.09	38.35	38.14
	38	38.35	38.09	38.25	38.10
	39	38.27	38.09	38.47	38.11
	40	38.11	38.00	38.09	37.87
	41	38.06	37.92	38.00	37.86
	42	38.09	38.04	38.13	37.91
	43	38.53	38.30	38.54	38.27
	44	38.22	37.96	38.15	38.01
	45	37.95	37.85	38.04	37.78
	46	37.97	37.83	38.08	37.79
	47	38.24	38.05	38.18	37.98
	48	38.19	38.03	38.19	38.12
	49	38.28	38.11	38.24	38.23
	50	38.19	38.14	38.21	38.05
	51	38.35	38.25	38.23	38.09
	52	38.51	38.36	38.41	38.35
	53	38.20	38.05	38.21	38.17
	54	38.64	38.57	38.63	38.46
	55	38.69	38.62	38.75	38.52
	56	38.85	38.79	38.83	38.57
	57	38.62	38.59	38.62	38.29
	58	38.69	38.60	38.65	38.49
	59	38.73	38.56	38.63	38.46
	60	38.60	38.52	38.71	38.55
	61	38.13	37.98	38.13	37.98
	62	38.08	38.11	38.17	38.03
	63	38.28	38.19	38.26	38.09
Total Conducted Power (mW)		431090.34	416422.35	431039.43	413597.91
Total Conducted Power (dBm)		56.35	56.20	56.35	56.17
Antenna Gain (dBi)		25.50	25.50	25.50	25.50
Total MIMO EIRP (dBm)		81.85	81.70	81.85	81.67
Limit (dBm)		89.07			

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Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	0	38.71	38.63	38.69	38.53
	1	38.40	38.21	38.49	38.36
	2	38.18	38.02	38.17	38.07
	3	38.28	38.29	38.22	38.13
	4	38.88	38.72	38.84	38.72
	5	37.70	37.55	37.61	37.60
	6	38.34	38.22	38.39	38.26
	7	38.19	38.01	38.18	38.06
	8	38.56	38.48	38.62	38.48
	9	38.20	37.94	38.07	38.09
	10	38.07	37.96	38.10	38.01
	11	38.24	38.10	38.29	38.29
	12	38.28	38.19	38.33	38.26
	13	38.13	38.05	38.12	38.11
	14	37.94	37.72	37.90	37.80
	15	38.27	38.11	38.32	38.21
	16	38.26	38.13	38.36	38.29
	17	38.25	37.99	38.21	38.12
	18	37.85	37.68	37.87	37.87
	19	37.98	37.93	37.98	37.97
	20	38.27	38.07	38.20	38.20
	21	38.00	37.78	38.02	37.91
	22	37.80	37.67	37.85	37.78
	23	38.05	37.82	38.04	38.06
	24	38.26	38.00	38.23	38.15
	25	38.15	37.99	38.26	38.14
	26	38.02	37.79	38.08	37.94
	27	38.10	38.13	38.20	38.19
	28	38.30	38.10	38.32	38.18
	29	38.23	38.05	38.15	38.12
	30	38.15	37.98	38.05	37.96
	31	38.09	37.89	38.07	38.06
	32	38.15	37.94	38.25	38.15
	33	38.21	38.00	38.26	38.16
	34	38.00	37.92	38.06	38.04
	35	38.29	38.10	38.27	38.23
	36	38.33	38.20	38.29	38.28

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	37	38.31	38.19	38.26	38.24
	38	38.22	38.18	38.24	38.13
	39	38.29	38.17	38.25	38.21
	40	38.19	37.91	38.12	38.07
	41	38.22	37.98	38.09	38.04
	42	38.07	38.04	38.11	38.06
	43	38.42	38.27	38.37	38.32
	44	38.20	38.07	38.09	38.03
	45	38.02	37.89	37.99	37.86
	46	38.20	37.81	38.03	37.99
	47	38.17	38.11	38.19	38.18
	48	38.28	38.12	38.21	38.19
	49	38.36	38.17	38.29	38.17
	50	38.21	38.14	38.25	38.14
	51	38.24	38.14	38.27	38.13
	52	38.62	38.27	38.49	38.38
	53	38.31	38.13	38.26	38.12
	54	38.74	38.54	38.60	38.55
	55	38.82	38.61	38.73	38.70
	56	38.81	38.80	38.83	38.68
	57	38.57	38.52	38.65	38.54
	58	38.66	38.55	38.67	38.56
	59	38.69	38.60	38.63	38.61
	60	38.58	38.60	38.65	38.60
	61	38.06	37.90	38.14	37.98
	62	38.03	37.99	38.11	37.98
	63	38.16	38.14	38.13	38.14
Total Conducted Power (mW)		429280.18	415170.02	428416.06	421275.18
Total Conducted Power (dBm)		56.33	56.18	56.32	56.25
Antenna Gain (dBi)		25.50	25.50	25.50	25.50
Total MIMO EIRP (dBm)		81.83	81.68	81.82	81.75
Limit (dBm)		89.07			

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Channel	Port	QPSK	16QAM	64QAM	256QAM
High	0	38.18	38.06	38.34	38.12
	1	38.13	38.09	38.28	38.14
	2	37.98	38.01	38.08	37.92
	3	38.18	38.21	38.11	37.88
	4	38.57	38.47	38.74	38.53
	5	37.50	37.50	37.55	37.29
	6	38.08	38.08	38.20	38.00
	7	38.13	38.24	38.03	37.84
	8	38.21	38.25	38.43	38.27
	9	37.82	37.84	37.92	37.82
	10	37.87	37.75	37.94	37.74
	11	38.28	38.34	38.25	37.91
	12	38.31	38.19	38.38	38.09
	13	38.06	37.98	38.17	37.97
	14	37.74	37.77	37.92	37.65
	15	38.20	38.32	38.14	37.92
	16	38.03	38.02	38.22	37.92
	17	38.01	37.91	38.08	37.89
	18	37.67	37.72	37.79	37.71
	19	38.04	38.14	37.96	37.89
	20	38.04	38.01	38.07	38.00
	21	37.85	37.85	37.80	37.70
	22	37.65	37.70	37.82	37.60
	23	38.15	38.24	38.03	37.84
	24	38.05	38.03	38.17	38.06
	25	38.08	38.07	38.24	37.92
	26	37.67	37.77	37.78	37.55
	27	38.10	38.14	37.92	37.63
	28	38.20	38.09	38.32	38.16
	29	38.05	38.07	38.19	37.89
	30	37.82	37.86	37.94	37.84
	31	38.12	38.20	38.10	37.95
	32	37.79	37.86	38.00	37.82
	33	37.88	37.89	38.00	37.80
	34	37.94	37.85	38.00	37.95
	35	38.15	38.29	38.19	37.98
	36	38.05	38.09	38.21	38.04



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	37	38.08	38.17	38.30	38.07
	38	37.98	38.05	38.17	37.97
	39	38.16	38.30	38.18	38.01
	40	37.85	37.86	38.06	38.02
	41	37.81	37.72	37.99	37.95
	42	37.90	37.90	38.05	37.96
	43	38.42	38.44	38.36	38.17
	44	37.89	37.89	38.16	38.16
	45	37.87	37.85	38.02	38.02
	46	37.96	37.98	38.10	37.98
	47	38.21	38.31	38.20	38.09
	48	38.15	37.98	38.08	38.11
	49	38.07	38.04	38.19	38.14
	50	38.08	38.06	38.10	38.12
	51	38.27	38.38	38.24	38.18
	52	38.27	38.24	38.32	38.34
	53	37.98	37.93	38.11	38.11
	54	38.44	38.40	38.38	38.36
	55	38.91	38.88	38.67	38.58
	56	38.74	38.68	38.90	38.69
	57	38.43	38.50	38.64	38.51
	58	38.35	38.32	38.32	38.25
	59	38.53	38.59	38.36	38.38
	60	38.48	38.44	38.62	38.59
	61	38.04	37.87	38.07	38.06
	62	37.98	37.89	38.05	38.02
	63	38.28	38.23	38.14	38.07
Total Conducted Power (mW)		412909.11	413059.12	419349.88	406164.10
Total Conducted Power (dBm)		56.16	56.16	56.23	56.09
Antenna Gain (dBi)		25.50	25.50	25.50	25.50
Total MIMO EIRP (dBm)		81.66	81.66	81.73	81.59
Limit (dBm)		89.07			

Table 8-6. Equivalent Isotropic Radiated Power Table (NR_1C_100M)

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Mode	Port	QPSK			QAM		
		Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
Multi Carriers	0	38.43	38.51	38.57	38.58	38.52	38.70
	1	38.30	38.34	38.42	38.39	38.27	38.51
	2	38.14	38.04	38.01	38.06	38.18	38.13
	3	38.06	38.04	38.14	38.02	38.03	38.16
	4	38.77	38.80	38.70	38.75	38.77	38.87
	5	37.57	37.69	37.49	37.62	37.58	37.77
	6	38.38	38.27	38.25	38.20	38.24	38.37
	7	38.12	38.17	38.05	38.01	38.18	38.15
	8	38.60	38.44	38.38	38.56	38.54	38.61
	9	38.08	37.98	38.08	37.97	37.99	38.04
	10	37.94	38.10	38.07	38.00	38.19	38.09
	11	38.13	38.32	38.17	38.10	38.13	38.29
	12	38.25	38.38	38.33	38.33	38.37	38.51
	13	38.15	38.24	38.21	38.13	38.22	38.23
	14	37.80	37.92	37.94	37.92	37.79	37.91
	15	38.07	38.24	38.12	38.21	38.23	38.24
	16	38.24	38.21	38.37	38.22	38.29	38.38
	17	38.13	38.08	38.10	38.07	38.03	38.15
	18	37.76	37.83	37.77	37.75	37.92	37.80
	19	37.99	37.96	37.92	37.92	37.96	37.97
	20	38.08	38.15	38.15	38.14	38.23	38.24
	21	37.84	37.93	37.89	37.85	37.91	38.01
	22	37.79	37.85	37.78	37.84	37.80	37.84
	23	37.99	38.03	38.14	37.96	38.09	38.09
	24	38.23	38.28	38.22	38.20	38.30	38.32
	25	38.22	38.22	38.28	38.33	38.20	38.29
	26	37.94	37.90	38.00	37.90	37.92	38.02
	27	38.10	37.99	38.12	38.02	38.09	38.02
	28	38.26	38.32	38.20	38.32	38.53	38.41
	29	38.18	38.30	38.30	38.26	38.31	38.25
	30	38.04	38.03	38.03	37.95	38.06	38.04
	31	38.07	38.07	38.09	37.98	38.07	38.03
	32	38.04	37.99	37.74	38.15	38.06	38.00
	33	38.04	38.06	37.83	38.13	38.15	38.13
	34	37.93	37.94	37.70	37.95	38.00	38.00
	35	37.96	38.05	37.69	38.06	38.03	38.04



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36	38.13	38.17	37.88	38.10	38.25	38.19
37	38.14	38.27	37.85	38.21	38.31	38.21
38	38.09	38.14	37.82	38.18	38.08	38.17
39	38.12	38.11	37.80	38.05	38.11	38.22
40	38.04	38.06	38.11	38.06	37.94	38.18
41	37.94	38.07	37.93	38.03	37.96	38.15
42	37.99	38.03	37.99	37.94	38.11	38.07
43	38.18	38.33	38.31	38.26	38.40	38.38
44	37.98	38.12	38.13	38.06	38.21	38.27
45	37.93	37.95	38.12	37.92	37.95	38.24
46	37.98	38.04	37.91	37.99	37.96	38.15
47	38.18	38.12	38.05	38.16	38.11	38.19
48	38.11	38.24	38.06	38.24	38.10	38.22
49	38.17	38.19	38.12	38.24	38.22	38.34
50	38.11	38.14	38.08	38.14	38.11	38.11
51	38.12	38.15	38.07	38.29	38.15	38.22
52	38.38	38.33	38.41	38.39	38.30	38.41
53	38.05	38.13	38.22	38.14	38.25	38.13
54	38.46	38.61	38.49	38.61	38.52	38.60
55	38.73	38.72	38.66	38.73	38.64	38.75
56	38.82	38.79	38.75	38.78	38.80	38.92
57	38.66	38.63	38.54	38.72	38.66	38.64
58	38.47	38.44	38.44	38.65	38.45	38.63
59	38.50	38.45	38.50	38.57	38.60	38.61
60	38.57	38.59	38.56	38.67	38.74	38.74
61	38.02	38.12	38.05	38.18	38.27	38.19
62	37.98	38.13	38.08	38.15	38.12	38.21
63	38.18	38.17	38.14	38.21	38.19	38.23
Total Conducted Power (mW)		418741.18	422078.47	416829.59	421635.55	423340.37
Total Conducted Power (dBm)		56.22	56.25	56.20	56.25	56.27
Antenna Gain (dBi)		25.50	25.50	25.50	25.50	25.50
Total MIMO EIRP (dBm)		81.72	81.75	81.70	81.75	81.77
Limit (dBm)		91.87				

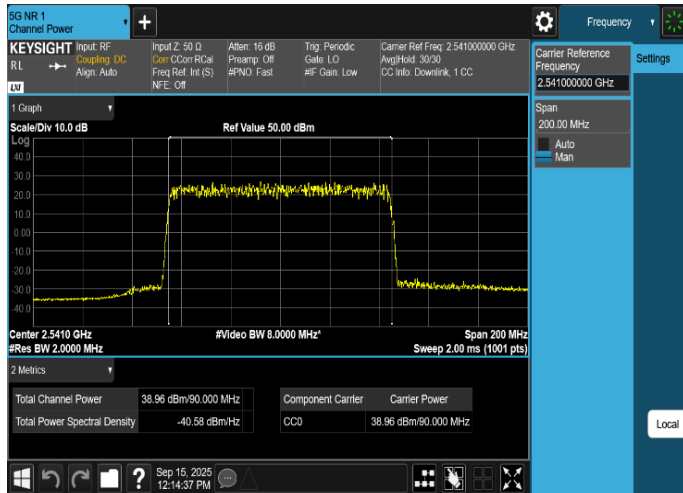
Table 8-7. Equivalent Isotropic Radiated Power Table (NR_2C_90M+100M)



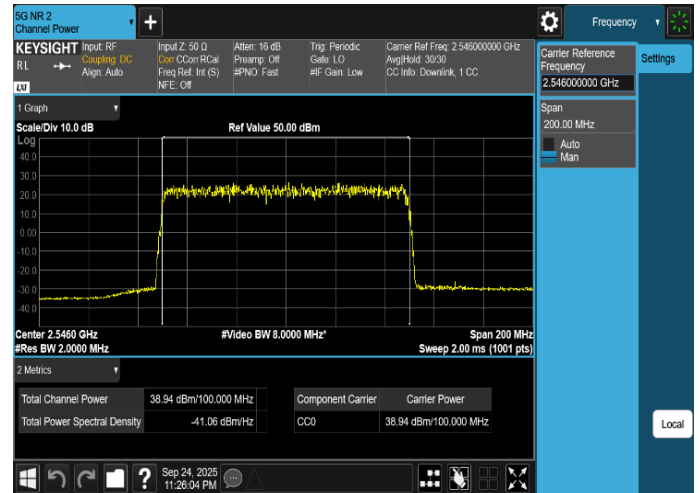
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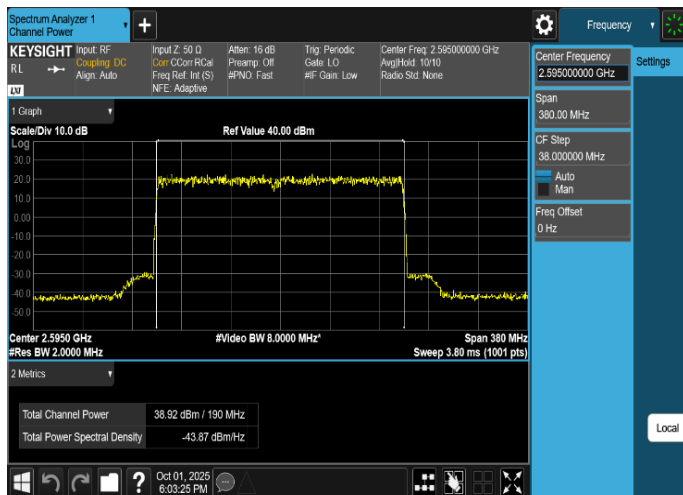
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Plot 8-7. Equivalent Radiated Power Plot
(NR_1C_90M_QPSK - Low Channel, Port 56)



Plot 8-8. Equivalent Radiated Power Plot
(NR_1C_100M_64QAM - Low Channel, Port 4)



Plot 8-9. Equivalent Radiated Power Plot
(NR_2C_90M+100M_16QAM - High Channel, Port 56)

8.4 Band Edge Emissions at Antenna Terminal

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates 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.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6

KDB 662911 D01 v02r01 – Section E)3) Out-of-Band and Spurious Emission Measurements

a) Absolute Emission Limits

iii) Measure and add $10 \log(N_{ANT})$ dB

ANSI C63.26-2015 – Section 5.7.3

Test Setting

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW: Please see test notes below.
4. $VBW \geq 3 \times RBW$
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span}/RBW$
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

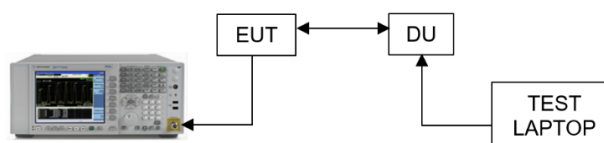


Figure 8-3. Test Instrument & Measurement Setup

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Limit

§ 27.53(m)(2)

For digital base stations, the attenuation shall be not less than $43 + 10 \log (P)$ dB, unless a documented interference complaint is received from an adjacent channel licensee with an overlapping Geographic Service Area.

Test Notes

1. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed
2. Detect with a margin of under 1dB to limit, the integration method was performed using the spectrum analyzer's band power functions according to ANSI C63.26-2015 – Section 5.7 and using the method KDB 971168 D01 v03r01 - Section E) 3) ii). The integration value was set to a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter.
3. The limits were adjusted by a factor of $[-10 \cdot \log (64)]$ dB to account for the device operation as a 64 port MIMO transmitter, as per FCC KDB 622911. MIMO Factor calculation as below:
 $\text{MIMO Factor} = 10 \cdot \log (64) = 18.06 \text{ dB}$

Frequency range	Basic Limit (dBm/MHz)	4Tx MIMO Factor (dB)	RBW Factor (dB)	Adjusted limit (dBm)
Low band edge – 1MHz	-13.00	18.06	0	-31.06
High band edge + 1MHz	-13.00	18.06	0	-31.06

Note: Adjusted limit (dBm/MHz) = Basic limit (dBm/1MHz) - MIMO Factor - RBW Factor

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Edge	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	2495 to 2496 MHz	-34.39	-33.74	-33.95	-34.12	-31.06	-2.68
	1		-32.68	-33.45	-33.52	-32.41		-1.35
	2		-32.08	-32.95	-33.72	-33.66		-1.02
	3		-32.27	-34.07	-33.81	-34.50		-1.21
	4		-32.23	-33.81	-34.12	-34.21		-1.17
	5		-33.28	-34.69	-34.30	-34.84		-2.22
	6		-34.03	-33.30	-33.40	-33.59		-2.24
	7		-33.89	-33.76	-34.30	-34.33		-2.70
	8		-34.40	-34.00	-34.14	-34.24		-2.94
	9		-34.12	-33.99	-34.49	-34.65		-2.93
	10		-34.64	-34.14	-34.61	-32.70		-1.64
	11		-32.90	-34.24	-33.45	-33.58		-1.84
	12		-34.85	-34.22	-34.63	-34.39		-3.16
	13		-34.54	-34.26	-34.72	-34.03		-2.97
	14		-32.61	-34.19	-34.57	-34.44		-1.55
	15		-32.43	-33.99	-33.93	-34.42		-1.37
	16		-34.75	-33.78	-34.55	-34.89		-2.72
	17		-35.15	-34.77	-34.70	-34.62		-3.56
	18		-32.91	-34.61	-34.71	-35.13		-1.85
	19		-34.40	-34.31	-34.56	-34.20		-3.14
	20		-32.16	-34.25	-34.60	-33.91		-1.10
	21		-34.60	-34.38	-34.52	-34.21		-3.15
	22		-34.81	-34.26	-34.90	-34.72		-3.20
	23		-34.17	-33.58	-33.92	-34.06		-2.52
	24		-34.40	-33.71	-33.49	-32.89		-1.83
	25		-34.61	-34.30	-33.47	-33.43		-2.37
	26		-34.41	-33.93	-34.24	-33.97		-2.87
	27		-33.68	-32.91	-33.87	-33.42		-1.85
	28		-34.75	-34.61	-34.35	-34.23		-3.17
	29		-32.91	-34.81	-34.63	-34.70		-1.85
	30		-34.97	-34.45	-34.65	-34.90		-3.39
	31		-34.04	-33.48	-34.14	-33.51		-2.42
	32		-32.53	-33.62	-33.18	-33.72		-1.47
	33		-34.55	-34.46	-34.31	-34.59		-3.25
	34		-32.36	-34.28	-34.17	-34.68		-1.30
	35		-34.38	-34.05	-33.99	-34.31		-2.93
	36		-34.89	-34.67	-33.65	-34.57		-2.59
	37		-34.66	-34.48	-33.91	-34.85		-2.85
	38		-34.92	-34.29	-34.03	-35.06		-2.97
	39		-34.76	-33.88	-33.98	-34.68		-2.82
	40		-34.26	-33.96	-34.17	-33.84		-2.78
	41		-32.39	-33.70	-34.48	-34.27		-1.33
	42		-34.64	-34.19	-34.70	-32.15		-1.09

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	43		-34.60	-34.48	-34.02	-34.26	-2.96
	44		-35.56	-35.42	-35.37	-35.24	-4.18
	45		-34.87	-33.81	-34.48	-34.65	-2.75
	46		-32.77	-34.68	-34.96	-34.76	-1.71
	47		-34.61	-34.68	-34.82	-34.14	-3.08
	48		-34.96	-34.39	-34.57	-34.91	-3.33
	49		-34.87	-34.75	-34.73	-34.88	-3.67
	50		-34.99	-34.69	-34.40	-34.67	-3.34
	51		-34.37	-33.96	-34.24	-34.00	-2.90
	52		-34.00	-34.10	-33.64	-33.66	-2.58
	53		-34.72	-34.32	-34.38	-34.49	-3.26
	54		-34.18	-33.81	-33.72	-33.74	-2.66
	55		-34.17	-33.65	-34.09	-33.76	-2.59
	56		-32.24	-34.14	-34.07	-33.88	-1.18
	57		-33.86	-33.77	-33.27	-33.14	-2.08
	58		-34.14	-33.86	-34.24	-33.94	-2.80
	59		-34.37	-33.96	-33.94	-33.61	-2.55
	60		-32.44	-33.81	-33.57	-33.36	-1.38
	61		-33.13	-34.78	-34.05	-33.68	-2.07
	62		-34.75	-34.76	-34.45	-34.75	-3.39
	63		-33.28	-33.81	-34.07	-34.10	-2.22
High	0	2690 to 2691 MHz	-32.92	-34.14	-33.59	-34.59	-1.86
	1		-33.03	-32.93	-33.77	-33.70	-1.87
	2		-33.12	-33.95	-34.37	-34.47	-2.06
	3		-32.01	-33.77	-32.59	-34.14	-0.95
	4		-32.15	-33.75	-34.31	-33.91	-1.09
	5		-33.25	-35.06	-34.50	-34.76	-2.19
	6		-33.20	-34.57	-32.65	-34.42	-1.59
	7		-32.63	-33.92	-34.46	-34.52	-1.57
	8		-33.74	-33.71	-33.82	-34.25	-2.65
	9		-33.73	-34.14	-34.73	-34.03	-2.67
	10		-32.89	-34.23	-34.07	-34.68	-1.83
	11		-33.48	-33.51	-33.89	-33.31	-2.25
	12		-32.92	-33.74	-34.05	-34.14	-1.86
	13		-32.72	-33.79	-34.08	-33.36	-1.66
	14		-33.17	-34.18	-34.45	-34.14	-2.11
	15		-32.90	-34.16	-34.47	-34.12	-1.84
	16		-34.25	-34.47	-35.13	-34.54	-3.19
	17		-32.93	-33.41	-34.83	-34.12	-1.87
	18		-32.99	-34.45	-32.88	-35.13	-1.82
	19		-34.11	-34.39	-34.94	-34.74	-3.05
	20		-32.59	-34.28	-34.03	-34.64	-1.53
	21		-33.27	-34.22	-34.60	-34.16	-2.21
	22		-33.51	-35.15	-35.27	-34.89	-2.45
	23		-33.75	-34.02	-34.96	-34.59	-2.69

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24	-32.82	-35.32	-34.49	-34.48	-1.76
25	-32.35	-33.08	-33.90	-34.03	-1.29
26	-33.35	-34.86	-35.05	-34.84	-2.29
27	-32.03	-33.56	-34.15	-34.31	-0.97
28	-33.02	-33.19	-34.74	-34.24	-1.96
29	-33.89	-34.12	-35.05	-34.44	-2.83
30	-33.97	-34.89	-34.67	-35.11	-2.91
31	-33.34	-32.98	-34.37	-33.98	-1.92
32	-33.40	-34.20	-34.38	-33.68	-2.34
33	-33.67	-34.60	-34.77	-34.17	-2.61
34	-33.38	-34.15	-35.35	-34.88	-2.32
35	-33.13	-33.85	-34.42	-34.41	-2.07
36	-33.82	-33.65	-34.57	-34.51	-2.59
37	-32.21	-33.89	-33.98	-33.67	-1.15
38	-33.97	-34.32	-35.14	-34.88	-2.91
39	-32.31	-34.36	-35.14	-34.32	-1.25
40	-33.25	-33.59	-33.96	-34.18	-2.19
41	-32.48	-34.28	-34.73	-34.52	-1.42
42	-33.80	-34.75	-34.47	-34.97	-2.74
43	-32.81	-33.78	-34.15	-33.84	-1.75
44	-33.17	-35.09	-34.88	-34.77	-2.11
45	-34.04	-34.72	-35.19	-35.15	-2.98
46	-32.89	-34.30	-34.74	-34.59	-1.83
47	-33.29	-34.18	-34.30	-34.32	-2.23
48	-32.96	-33.71	-34.13	-34.24	-1.90
49	-33.10	-33.17	-33.81	-33.82	-2.04
50	-32.53	-34.75	-34.25	-34.17	-1.47
51	-33.52	-33.33	-34.19	-34.44	-2.27
52	-32.72	-34.56	-34.60	-34.19	-1.66
53	-34.16	-34.34	-35.11	-34.50	-3.10
54	-32.21	-33.98	-34.64	-34.40	-1.15
55	-32.59	-33.94	-34.63	-34.86	-1.53
56	-32.50	-33.10	-33.84	-34.06	-1.44
57	-32.33	-32.72	-33.55	-33.15	-1.27
58	-32.97	-34.11	-34.88	-34.80	-1.91
59	-33.72	-33.79	-34.89	-35.00	-2.66
60	-32.83	-32.69	-33.71	-33.83	-1.63
61	-33.93	-34.12	-34.01	-34.17	-2.87
62	-33.94	-34.47	-35.00	-34.91	-2.88
63	-34.27	-34.33	-34.71	-35.15	-3.21

Table 8-8. Band Edge Emission Summary Data (NR_1C_90M)

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Edge	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	2495 to 2496 MHz	-33.41	-33.39	-32.52	-33.20	-31.06	-1.46
	1		-32.80	-33.05	-31.91	-32.84		-0.85
	2		-33.47	-33.10	-32.19	-32.79		-1.13
	3		-33.50	-33.57	-32.86	-33.31		-1.80
	4		-33.16	-33.24	-32.42	-33.20		-1.36
	5		-34.03	-34.32	-33.10	-33.81		-2.04
	6		-33.59	-33.02	-33.02	-32.69		-1.63
	7		-33.47	-33.16	-32.54	-33.34		-1.48
	8		-33.41	-33.37	-32.33	-33.05		-1.27
	9		-33.76	-33.92	-32.11	-33.53		-1.05
	10		-33.61	-33.92	-33.22	-33.61		-2.16
	11		-33.04	-33.38	-32.03	-32.73		-0.97
	12		-33.91	-33.77	-32.95	-33.56		-1.89
	13		-33.58	-33.76	-32.62	-33.29		-1.56
	14		-33.52	-33.34	-33.19	-33.63		-2.13
	15		-33.24	-33.44	-32.91	-33.54		-1.85
	16		-33.67	-33.52	-32.29	-33.46		-1.23
	17		-33.83	-34.00	-32.44	-33.55		-1.38
	18		-33.63	-33.80	-32.78	-33.63		-1.72
	19		-33.34	-33.81	-32.31	-33.30		-1.25
	20		-33.66	-33.13	-32.77	-33.41		-1.71
	21		-33.04	-33.59	-32.61	-33.24		-1.55
	22		-34.28	-34.08	-32.96	-33.68		-1.90
	23		-32.84	-33.12	-31.98	-32.92		-0.92
	24		-33.58	-33.46	-32.65	-33.26		-1.59
	25		-33.80	-33.54	-32.37	-33.36		-1.31
	26		-33.25	-33.37	-32.46	-32.96		-1.40
	27		-32.90	-33.28	-32.09	-32.84		-1.03
	28		-33.64	-33.36	-32.56	-33.52		-1.50
	29		-33.66	-34.08	-33.29	-33.51		-2.23
	30		-33.93	-34.23	-33.12	-33.89		-2.06
	31		-32.87	-33.12	-32.16	-32.70		-1.10
	32		-33.14	-32.89	-32.17	-32.93		-1.11
	33		-33.24	-33.77	-32.72	-33.67		-1.66
	34		-33.75	-33.84	-32.47	-33.58		-1.41
	35		-32.87	-33.44	-32.48	-33.20		-1.42
	36		-33.95	-33.78	-32.95	-33.47		-1.89
	37		-34.04	-33.84	-33.16	-33.62		-2.10
	38		-32.07	-33.80	-32.94	-33.47		-1.01
	39		-32.82	-33.52	-32.54	-33.10		-1.48
	40		-33.44	-33.21	-32.40	-33.22		-1.34
	41		-33.80	-33.32	-32.31	-33.43		-1.25
	42		-33.85	-33.41	-32.44	-33.18		-1.38

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	43		-33.72	-33.88	-32.66	-33.59	-1.60
	44		-34.40	-34.66	-34.04	-34.50	-2.98
	45		-34.03	-33.48	-32.54	-33.46	-1.48
	46		-34.23	-33.92	-33.64	-33.92	-2.58
	47		-33.61	-33.89	-32.84	-33.49	-1.78
	48		-33.50	-32.40	-32.57	-33.16	-1.34
	49		-33.62	-33.99	-32.87	-33.44	-1.81
	50		-33.29	-34.13	-33.26	-34.08	-2.20
	51		-32.92	-33.31	-32.76	-33.19	-1.70
	52		-32.80	-33.53	-32.58	-33.29	-1.52
	53		-33.75	-33.79	-32.93	-33.31	-1.87
	54		-32.38	-33.27	-32.21	-32.94	-1.15
	55		-33.11	-33.29	-32.30	-32.68	-1.24
	56		-32.93	-33.47	-32.52	-33.42	-1.46
	57		-32.16	-32.91	-31.89	-32.88	-0.83
	58		-32.96	-33.11	-32.59	-32.74	-1.53
	59		-33.55	-33.38	-32.62	-32.99	-1.56
	60		-32.56	-32.96	-32.07	-32.60	-1.01
	61		-33.72	-33.74	-32.70	-33.12	-1.64
	62		-33.92	-34.02	-32.93	-33.50	-1.87
	63		-33.54	-33.46	-32.63	-33.18	-1.57
High	0	2690 to 2691 MHz	-34.44	-34.10	-33.81	-34.10	-2.75
	1		-34.58	-33.87	-33.83	-33.71	-2.65
	2		-34.15	-33.87	-33.67	-33.22	-2.16
	3		-33.39	-32.78	-33.85	-34.01	-1.72
	4		-33.87	-33.37	-33.49	-33.66	-2.31
	5		-34.69	-34.24	-32.12	-34.81	-1.06
	6		-33.19	-34.36	-33.39	-33.03	-1.97
	7		-33.37	-33.61	-34.09	-34.79	-2.31
	8		-34.14	-33.66	-33.04	-34.23	-1.98
	9		-33.66	-33.77	-33.93	-34.18	-2.60
	10		-34.13	-33.63	-34.22	-33.44	-2.38
	11		-32.38	-33.22	-34.15	-33.94	-1.32
	12		-34.04	-32.51	-33.85	-34.06	-1.45
	13		-34.16	-33.10	-33.88	-33.72	-2.04
	14		-32.87	-32.67	-33.91	-33.60	-1.61
	15		-33.29	-33.53	-34.59	-34.16	-2.23
	16		-33.60	-34.42	-34.50	-35.10	-2.54
	17		-33.89	-33.66	-34.60	-33.70	-2.60
	18		-34.43	-34.21	-34.34	-34.69	-3.15
	19		-33.47	-33.92	-34.76	-34.40	-2.41
	20		-34.53	-33.99	-33.85	-34.44	-2.79
	21		-34.07	-33.64	-34.08	-33.96	-2.58
	22		-34.69	-33.75	-34.57	-34.17	-2.69
	23		-34.07	-33.32	-33.85	-34.16	-2.26

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24	-33.50	-33.97	-33.27	-33.93	-2.21
25	-33.66	-33.61	-34.42	-33.68	-2.55
26	-34.59	-34.14	-34.88	-34.83	-3.08
27	-33.11	-33.08	-33.92	-34.68	-2.02
28	-34.72	-34.03	-33.43	-34.69	-2.37
29	-33.92	-34.41	-34.24	-34.88	-2.86
30	-34.15	-34.12	-34.34	-34.16	-3.06
31	-33.30	-32.24	-33.11	-33.69	-1.18
32	-34.01	-34.06	-33.97	-33.62	-2.56
33	-34.89	-34.82	-34.15	-34.00	-2.94
34	-34.64	-34.58	-34.26	-34.54	-3.20
35	-34.23	-33.69	-33.57	-33.86	-2.51
36	-33.89	-33.57	-34.16	-33.75	-2.51
37	-33.43	-33.23	-33.96	-33.77	-2.17
38	-34.58	-34.67	-33.99	-34.61	-2.93
39	-34.02	-33.81	-33.74	-34.64	-2.68
40	-33.51	-33.35	-34.17	-33.79	-2.29
41	-34.82	-34.40	-33.16	-34.75	-2.10
42	-34.79	-33.95	-34.00	-34.46	-2.89
43	-33.98	-33.85	-34.74	-33.80	-2.74
44	-34.43	-34.40	-35.22	-34.87	-3.34
45	-35.05	-34.62	-34.25	-34.93	-3.19
46	-34.69	-34.41	-34.54	-34.92	-3.35
47	-33.83	-33.33	-33.99	-34.59	-2.27
48	-33.57	-33.42	-33.81	-34.13	-2.36
49	-33.45	-32.87	-33.43	-33.69	-1.81
50	-33.74	-33.39	-33.77	-34.12	-2.33
51	-33.13	-32.78	-33.07	-33.52	-1.72
52	-34.19	-33.93	-34.47	-33.90	-2.84
53	-34.94	-34.68	-34.12	-34.08	-3.02
54	-34.10	-33.74	-34.38	-34.52	-2.68
55	-34.47	-33.33	-34.35	-34.48	-2.27
56	-33.90	-33.00	-33.64	-33.39	-1.94
57	-33.19	-32.49	-32.61	-33.47	-1.43
58	-34.72	-34.04	-34.53	-34.05	-2.98
59	-33.65	-33.81	-35.01	-34.60	-2.59
60	-33.75	-33.88	-33.25	-33.91	-2.19
61	-33.96	-33.70	-33.85	-33.85	-2.64
62	-35.13	-34.84	-34.43	-35.30	-3.37
63	-34.20	-34.01	-34.38	-34.74	-2.95

Table 8-9. Band Edge Emission Summary Data (NR_1C_100M)



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Edge	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	4	2495 to 2496 MHz	-33.75	-31.06	-2.69
	43		-32.30		-1.24
	55		-33.75		-2.69
	56		-34.11		-3.05
High	4	2690 to 2691 MHz	-34.24		-3.18
	43		-34.42		-3.36
	55		-34.31		-3.25
	56		-34.40		-3.34

Table 8-10. Band Edge Emission Summary Data (NR_2C_90M+100M)

Edge	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	4	2495 to 2496 MHz	-34.38	-31.06	-3.32
	43		-35.05		-3.99
	55		-34.61		-3.55
	56		-33.54		-2.48
High	4	2690 to 2691 MHz	-34.05		-2.99
	43		-33.75		-2.69
	55		-33.92		-2.86
	56		-34.90		-3.84

Table 8-11. Band Edge Emission Summary Data (NR_2NC_90M+100M)