

TEST REPORT

of

FCC Part 2 Subpart J, Part 22 Subpart C/H,
Part 24 Subpart E and Part 27 Subpart C and Part 90 Subpart S

FCC ID: YZP-GN3000

Equipment Under Test : Telematics Module

Model Name : LTD-GN3000

Variant Model Name(s) : -

Applicant : LG Innotek Co., Ltd.

Manufacturer : LG Innotek Co., Ltd.

Date of Receipt : 2024.02.15

Date of Test(s) : 2024.02.16 ~ 2024.08.28

Date of Issue : 2024.08.28

In the configuration tested, the EUT complied with the standards specified above. This test report does not assure KOLAS accreditation.

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- 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
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- 4) The data marked ※ in this report was provided by the customer and may affect the validity of the test results.

We are responsible for all the information of this test report except for the data(※) provided by the customer.

Tested by:



Dave Kim

Technical
Manager:



Patrick Kang

SGS Korea Co., Ltd. Gunpo Laboratory

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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

- 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- Designation number: KR0150

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1.2. Details of Applicant

Applicant : LG Innotek Co., Ltd.

Address : 30 Magokjungang 10-ro, Gangseo-gu, seoul, Republic Of Korea, 07996

Contact Person : Jeong, In-chang

Phone No. : +82 10 2326 9972

1.3. Details of Manufacturer

Company : Same as applicant

Address : Same as applicant

Factory1 : PT. LG INNOTEK INDONESIA

Factory1 Address : Bekasi International Industrial Estate, Blok C8 No. 12 & 12A, Desa Cibatu, Cikarang Selatan, Bekasi 17750, Jawa Barat - Indonesia

Factory2 : LG Innotek Co., Ltd.

Factory2 Address : 26, Hanamsandan 5beon-ro, Gwangsan-gu, Gwangju, Republic of Korea, 62229

1.4. Description of EUT

Kind of Product	Telematics Module
Model Name	LTD-GN3000
Serial Number	Conducted: C1 Radiated: R1
Power Supply	DC 4.00 V
Rated Power	NR Band 2, 5, 7, 25, 26, 66: 23 dB m
Frequency Range	NR Band 2: 1 850 MHz ~ 1 910 MHz NR Band 5: 824 MHz ~ 849 MHz NR Band 7: 2 500 MHz ~ 2 570 MHz NR Band 25: 1 850 MHz ~ 1 915 MHz NR Band 26: 814 MHz ~ 849 MHz NR Band 66: 1 710 MHz ~ 1 780 MHz
Modulation Technique	BPSK, QPSK, 16QAM, 64QAM, 256QAM
Antenna Type	Dipole Antenna
Antenna Gain [※]	Refer to the clause 1.15
H/W Version	A.4
S/W Version	01L_TCM

1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Spectrum Analyzer	R&S	FSV30	100955	Mar. 08, 2024	Annual	Mar. 08, 2025
Spectrum Analyzer	R&S	FSW43	100637	Apr. 08, 2024	Annual	Apr. 08, 2025
Spectrum Analyzer	Agilent	N9030A	US51350132	Nov. 27, 2023	Annual	Nov. 27, 2024
Signal Generator	R&S	SMA100B	106887	Oct. 06, 2023	Annual	Oct. 06, 2024
DC Power Supply	R&S	HMP2020	102133	Apr. 23, 2024	Annual	Apr. 23, 2025
Communication test station	Anritsu	MT8000A	6261867312	Apr. 08, 2024	Annual	Apr. 08, 2025
Communication Analyzer	Anritsu	MT8821C	6262192291	Feb. 08, 2024	Annual	Feb. 08, 2025
Temperature Chamber	ESPEC CORP.	PL-2J	15004184	Jun. 03, 2024	Annual	Jun. 03, 2025
BRIDGE COUPLER	MARKI MICROWAVE INC	CBR16-0012	1542	May 13, 2024	Annual	May 13, 2025
Directional Coupler	KRYTAR	152613	140973	Jun. 07, 2024	Annual	Jun. 07, 2025
Power Sensor	Anritsu	MA2411B	1207272	May 29, 2024	Annual	May 29, 2025
Power Sensor	Anritsu	ML2495A	1223004	May 29, 2024	Annual	May 29, 2025
Low Pass Filter	Mini-Circuits	NLP-1200+	V 8979400903-1	May 17, 2024	Annual	May 17, 2025
High Pass Filter	Wainwright Instrument GmbH	WHKX10-900-1000-18000-40SS	7	Feb. 27, 2024	Annual	Feb. 27, 2025
High Pass Filter	Wainwright Instrument GmbH	WHKX3.0/18G-6SS	21	Jun. 07, 2024	Annual	Jun. 07, 2025
High Pass Filter	Wainwright Instrument GmbH	WHNX7.5/26.5G-6SS	11	Oct. 17, 2023	Annual	Oct. 17, 2024
Preamplifier	H.P.	8447F	2944A03909	Aug. 04, 2023	Annual	Aug. 09, 2025
Preamplifier	R&S	SCU 18F	101058	Dec. 07, 2023	Annual	Dec. 07, 2024
Preamplifier	MITEQ Inc.	JS44-18004000-35-8P	1546891	Oct. 06, 2023	Annual	Oct. 06, 2024
Test Receiver	R&S	ESU26	100109	Jan. 16, 2024	Annual	Jan. 16, 2025
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	Aug. 21, 2023	Biennial	Aug. 21, 2025
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB9163	9163-437	May 29, 2024	Annual	May 29, 2025
Horn Antenna	R&S	HF906	100326	Feb. 19, 2024	Annual	Feb. 19, 2025
Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9170	9170-540	Dec. 05, 2023	Annual	Dec. 05, 2024
Antenna Master	Innco systems GmbH	MA4640-XP-ET	MA4640/536/383 30516/L	N.C.R.	N/A	N.C.R.
Turn Table	Innco systems GmbH	DS 1200S	N/A	N.C.R.	N/A	N.C.R.
Controller	Innco systems GmbH	CONTROLLER CO3000-4P	CO3000/963/383 30516/L	N.C.R.	N/A	N.C.R.
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	N/A	N.C.R.	N/A	N.C.R.
Coaxial Cable	RADIAL	TESTPRO 3	182287	Apr. 12, 2024	Semi-Annual	Oct. 12, 2024
Coaxial Cable	RADIAL	TESTPRO 3	182288	Apr. 12, 2024	Semi-Annual	Oct. 12, 2024
Coaxial Cable	RADIAL	TESTPRO 3	182291	Apr. 12, 2024	Semi-Annual	Oct. 12, 2024
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-5 m	TPC2402190004	Apr. 03, 2024	Semi-Annual	Oct. 03, 2024
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-10 m	TPC2402190001	Apr. 03, 2024	Semi-Annual	Oct. 03, 2024

Note;

- 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.
- Equipment after the calibration due date was not used for testing.

1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 2, 22, 24, 27 and 90		
Section(s) in FCC	Test Item	Result
§2.1046 §22.913(a)(5) §24.232(c) §27.50(d)(4) §27.50(h)(2) §90.635(b)	E.R.P. / E.I.R.P.	Complied ¹⁾
§22.917(a) §24.238(a) §27.53(h)(1) §27.53(m)(4) §90.691(a)	Radiated Spurious Emission	Complied
§2.1046	Conducted Output Power	Complied ¹⁾
§2.1049	Occupied Bandwidth	Complied ¹⁾
§22.913(d) §24.232(d) §27.50(d)(5)	Peak-Average Ratio	Complied ¹⁾
§22.917(a) §24.238(a) §27.53(h)(1) §27.53(m)(4) §90.691(a)	Spurious Emission at Antenna Terminal	Complied ¹⁾
§22.917(a) §24.238(a) §27.53(h)(1) §27.53(m)(4) §90.691(a)	Band Edge and Emission Mask	Complied ¹⁾
§2.1055 §22.355 §24.235 §27.54 §90.213(a)	Frequency Stability	Complied ¹⁾

Note;

- 1) The test items of inter band CA were covered by LTE single carrier due to the CA power is reduced according to 3GPP MPR

1.7. Sample Calculation for Offset

Where relevant, the following sample calculation is provided:

1.7.1. Conducted Test

Offset value (dB) = Directional Coupler (dB) + Cable loss (dB)

1.7.2. Radiation test

- E.I.R.P. (dB m) = Measured level (dB μ V) + Antenna factor (dB/m) + Cable loss (dB) + 20 Log D - 104.8; where D is the measurement distance in meters.
- E.R.P. (dB m) = E.I.R.P. (dB m) - 2.15 (dB)

1.8. Device Capabilities

This device contains the following capabilities;

NR Band 2 (1 850 MHz ~ 1 910 MHz) is covered by NR Band 25 (1 850 MHz ~ 1 915 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth. Therefore test data provided in this report covers NR Band 2 as well as Band 25.

NR Band 5 (824 MHz ~ 849 MHz) is covered by NR Band 26 (814 MHz ~ 849 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth. Therefore test data provided in this report covers NR Band 5 as well as Band 26.

1.9. ENDC Configuration

NR Band	SCS (kHz)	Bandwidth (MHz)	Waveform	Modulation	ENDC LTE Band
n2	15	5, 10, 15, 20, 25, 30, 40	DFT-S-OFDM, CP-OFDM	BPSK, QPSK, 16QAM, 64QAM, 256QAM	5
n5	15	5, 10, 15, 20			2, 7, 66
n66	15	5, 10, 15, 20, 25, 30, 40			5

1.10. Worst Case Configuration and Mode

The worst-case is based on the conducted output power measurement investigation results. All testing was performed using BPSK, QPSK, 16QAM, 64QAM and 256QAM modulations. If both SA and NSA were supported, SA was tested as worst case and NSA was tested only radiated spurious emission for worst conducted output power combination. On ENDC mode, only radiated spurious emission were tested as worst case for worst conducted output power combination.

However, the spurious radiated emission and spurious at antenna terminal were only performed on bandwidth and RB offset (with RB size 1) with the highest conducted power.

The peak to average ratio were tested only 256QAM modulation as worst case.

The radiation test of the EUT was investigated in three orthogonal orientations X, Y, and Z, and the worst case data is reported.

1.9. Introduction of Test Data Reuse

This report referenced from the FCC ID: YZP-GN1000.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID.

1.10. Difference

Model name	Description
LTD-GN1000	- Reference model - Single modular
LTD-GN3000	- The PCB and component placement are the same, but the filter has been changed.

1.11. Reference Detail

Reference applicant that contains the reused reference data in the individual test reports:

Equipment class	Reference FCC ID	Application type	Reference test report number	Exhibit type	Variant test report number	Data reuse
PCB	YZP-GN1000	Original grant	F690501-RF-RTL005195 (LTE)	Test report	F690501-RF-RTL005288 (LTE)	All
			F690501-RF-RTL005197 (LTE ULCA)		F690501-RF-RTL005289 (LTE ULCA)	
			F690501-RF-RTL005199 (NR FDD)		F690501-RF-RTL005290 (NR FDD)	
			F690501-RF-RTL005201 (NR TDD)		F690501-RF-RTL005291 (NR TDD)	

1.12. Spot Check Data

After confirming through in the band that the performance of the FCC ID: YZP-GN1000 remains representative of FCC ID: YZP-GN1000.

The test data of FCC ID: YZP-GN1000 being submitted for this application to cover NR features.

Test item	Band	Frequency (MHz)	Limit	Original model	Spot check model	Deviation (dB)
				LTD-GN1000	LTD-GN3000	
				FCC ID: YZP-GN1000	FCC ID: YZP-GN3000	
Conducted Output Power	n25/2	1 910.0	2 W E.I.R.P.	23.55 dB m	23.47 dB m	-0.08
	n7	2 535.0	2 W E.I.R.P.	23.45 dB m	23.09 dB m	-0.36
	n26/5 part 22	834.0	7 W E.R.P.	23.56 dB m	23.29 dB m	-0.27
	n26 part 90	819.0	100 W E.R.P.	23.52 dB m	23.05 dB m	-0.47
	n66	1 745.0	1 W E.I.R.P.	23.84 dB m	23.71 dB m	-0.13
Band edge	n25/2	1 902.5	-13 dB m	-15.61 dB m	-15.43 dB m	0.18
	n7	2 510.0	-10 dB m	-11.09 dB m	-11.54 dB m	0.45
	n26/5 part 22	846.5	-13 dB m	-18.75 dB m	-19.25 dB m	0.50
	n26 part 90	821.5	-13 dB m	-16.07 dB m	-16.09 dB m	0.02
	n66	1 760.0	-13 dB m	-16.30 dB m	-17.15 dB m	0.85
Radiated Spurious Emissions	n25/2	1 882.5	-13 dB m	-47.61 dB m	-47.58 dB m	0.03
	n7	2 535.0	-25 dB m	-40.80 dB m	-40.60 dB m	0.20
	n26/5 part 22	834.0	-13 dB m	-19.10 dB m	-21.71 dB m	-2.61
	n26 part 90	819.0	-13 dB m	-26.44 dB m	-27.67 dB m	-1.23
	n66	1 745.0	-13 dB m	-48.89 dB m	-49.58 dB m	-0.69
	ENDC 7A_n5A	836.5	-13 dB m	-45.07 dB m	-45.30 dB m	-0.23
	ENDC 5A_n2A	1 905.0	-13 dB m	Not Detected	Not Detected	-
	ENDC 5A_n66A	1 745.0	-13 dB m	Not Detected	Not Detected	-
	NR_Inter CA n2A-n77A_Low	1 905.0 3 540.0	-13 dB m	Not Detected	Not Detected	-
	NR_Inter CA n2A-n77A_High	1 855.0 3 710.01				
	NR_Inter CA n5A-n7A	834.0 2 507.5	-13 dB m	Not Detected	Not Detected	-
	NR_Inter CA n5A-n66A	836.5 1 745.0				
	NR_Inter CA n5A-n77A_Low	839.0 3 540.0	-13 dB m	Not Detected	Not Detected	-
	NR_Inter CA n5A-n77A_High	834.0 3 710.01				
	NR_Inter CA n7A-n78A_Low	2 562.5 3 540.0	-25 dB m	-42.62 dB m	Not Detected	-
	NR_Inter CA n7A-n78A_High	2 507.5 3 710.01				
	NR_Inter CA n26A_part22-n66A	844.0 1 760.0	-13 dB m	Not Detected	Not Detected	-
	NR_Inter CA n26A_part90-n66A	819.0 1 760.0				
	NR_Inter CA n66A-n77A_Low	1 760.0 3 540.0	-13 dB m	-50.80 dB m	Not Detected	-
	NR_Inter CA n66A-n77A_High	1 730.0 3 710.01				

Test item	Band	Frequency (MHz)	Limit	Original model	Spot check model	Deviation (dB)
				LTD-GN1000	LTD-GN3000	
				FCC ID: YZP-GN1000	FCC ID: YZP-GN3000	
Conducted Spurious Emission	n25/2	1 910.0	-13 dB m	-19.27 dB m	-20.05 dB m	-0.78
	n7	2 535.0	-25 dB m	-28.96 dB m	-28.27 dB m	0.69
	n26/5 part 22	834.0	-13 dB m	-18.84 dB m	-20.16 dB m	-1.32
	n26 part 90	819.0	-13 dB m	-17.16 dB m	-19.31 dB m	-2.15
	n66	1 745.0	-13 dB m	-18.32 dB m	-19.53 dB m	-1.21
Test item	Band	Frequency (MHz)	Limit	Original model	Spot check model	Deviation (ppm)
				LTD-GN1000	LTD-GN3000	
				FCC ID: YZP-GN1000	FCC ID: YZP-GN3000	
Stability	n25/2	1 882.5	± 2.5 ppm	0.004 62 ppm	0.003 15 ppm	-0.001 47
	n7	2 535.0		0.002 15 ppm	0.002 53 ppm	0.000 38
	n26/5 part 22	836.5		0.007 29 ppm	0.003 15 ppm	-0.004 14
	n26 part 90	819.0		0.012 33 ppm	0.005 36 ppm	-0.006 97
	n66	1 745.0		0.004 40 ppm	0.000 89 ppm	-0.003 51

Test item	Band	Frequency (MHz)	Limit	Original model				Spot check model				Deviation (dB)			
				LTD-GN1000				LTD-GN3000							
				DFT		CP		DFT		CP		DFT		CP	
Peak-Average Ratio	n25/2	1 902.5	-13 dB	6.67 dB		8.78 dB		6.82 dB		8.90 dB		0.15		0.12	
	n7	2 562.5		6.46 dB		8.78 dB		6.88 dB		8.59 dB		0.42		-0.19	
	n26/5 part 22	836.5		6.35 dB		8.78 dB		6.19 dB		8.33 dB		-0.16		-0.45	
	n26 part 90	819.0		6.43 dB		8.43 dB		6.46 dB		8.67 dB		0.03		0.24	
	n66	1 745.0		6.58 dB		8.61 dB		6.23 dB		8.42 dB		-0.35		-0.19	
Test item	Band	Frequency (MHz)	Limit	Original model				Spot check model				Deviation (MHz)			
				LTD-GN1000				LTD-GN3000							
				DFT		CP		DFT		CP		DFT		CP	
				BPSK/ QPSK (MHz)	16QAM (MHz)	QPSK (MHz)	16QAM (MHz)	BPSK/ QPSK (MHz)	16QAM (MHz)	QPSK (MHz)	16QAM (MHz)	QPSK	16QAM	QPSK	16QAM
Occupied Bandwidth	n25/2	1 882.5	Lowest Bandwidth	4.486	4.476	4.496	4.505	4.496	4.496	4.505	4.496	0.010	0.020	0.009	-0.009
			Highest Bandwidth	38.761	38.681	38.521	38.601	38.601	38.681	38.601	38.601	-0.160	0.000	0.080	0.000
	n7	2 535.0	Lowest Bandwidth	4.496	4.476	4.496	4.486	4.486	4.496	4.505	4.505	-0.010	0.020	0.009	0.019
			Highest Bandwidth	17.942	17.942	18.941	18.941	17.902	17.902	18.941	18.981	-0.040	-0.040	0.000	0.040
	n26/5 part 22	836.5	Lowest Bandwidth	4.505	4.476	4.496	4.496	4.466	4.486	4.545	4.505	-0.039	0.010	0.049	0.009
			Highest Bandwidth	17.982	17.942	18.941	18.941	17.902	17.902	18.941	18.981	-0.080	-0.040	0.000	0.040
	n26 part 90	819.0	Lowest Bandwidth	4.496	4.476	4.496	4.496	4.466	4.496	4.496	4.505	-0.030	0.020	0.000	0.009
				8.951	8.911	9.271	9.271	13.457	13.516	14.146	14.146	4.506	4.605	4.875	4.875
	n66	1 745.0	Lowest Bandwidth	4.476	4.486	4.505	4.466	4.486	4.486	4.505	4.486	0.010	0.000	0.000	0.020
				38.601	38.521	38.521	38.601	38.521	38.601	38.601	38.601	-0.080	0.080	0.080	0.000

Note;

Comparison of two models, upper deviation is within 3 dB range and all test results are under FCC technical limits.

1.13. Measurement Configuration

Test Items	Band	Test Channel			Bandwidth (MHz)																Modulation DFT-S-OFDM					Modulation CP-OFDM				RB #		
		Low	Mid	High	5	10	15	20	25	30	40	50	60	70	80	90	100	BPSK	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	1	Half	Full			
Conducted Output Power	n7	V	V	V	V	V	V	V										V	V	V	V	V	V	V	-	-	V	V	V			
	n25/2	V	V	V	V	V	V	V	V	V	V							V	V	V	V	V	V	V	-	-	V	V	V			
	n26/5 part 22	V	V	V	V	V	V	V										V	V	V	V	V	V	V	-	-	V	V	V			
	n26 part 90	V	V	V	V	V												V	V	V	V	V	V	V	-	-	V	V	V			
	n66	V	V	V	V	V	V	V	V	V	V							V	V	V	V	V	V	V	-	-	V	V	V			
Frequency Stability	n7	-	V	-	V	-	-	-										-	V	-	-	-	-	-	-	-	-	-	-	V		
	n25/2	-	V	-	V	-	-	-	-	-	-							-	V	-	-	-	-	-	-	-	-	-	-	V		
	n26/5 part 22	-	V	-	V	-	-	-										-	V	-	-	-	-	-	-	-	-	-	-	V		
	n26 part 90	-	V	-	V	-												-	V	-	-	-	-	-	-	-	-	-	-	V		
	n66	-	V	-	V	-	-	-	-	-	-							-	V	-	-	-	-	-	-	-	-	-	-	V		
Occupied Bandwidth	n7	-	V	-	V	V	V	V										V	V	V	-	-	V	V	-	-	-	-	V			
	n25/2	-	V	-	V	V	V	V	V	V	V							V	V	V	-	-	V	V	-	-	-	-	V			
	n26/5 part 22	-	V	-	V	V	V	V										V	V	V	-	-	V	V	-	-	-	-	V			
	n26 part 90	-	V	-	V	V												V	V	V	-	-	V	V	-	-	-	-	V			
	n66	-	V	-	V	V	V	V	V	V	V							V	V	V	-	-	V	V	-	-	-	-	V			
Peak-to-Average Ratio	n7	V	V	V	V	V	V	V	V	V	V							-	-	-	-	V	-	-	-	V	-	-	V			
	n25/2	V	V	V	V	V	V	V	V	V	V							-	-	-	-	V	-	-	-	V	-	-	V			
	n26/5 part 22	V	V	V	V	V	V	V										-	-	-	-	V	-	-	-	V	-	-	V			
	n26 part 90	V	V	V	V	V												-	-	-	-	V	-	-	-	V	-	-	V			
	n66	V	V	V	V	V	V	V	V	V	V							-	-	-	-	V	-	-	-	V	-	-	V			
Band edge	n7	V	-	V	V	V	V	V										-	V	V	-	-	V	V	-	-	V	-	V			
	n25/2	V	-	V	V	V	V	V	V	V	V							V	-	V	-	-	V	V	-	-	V	-	V			
	n26/5 part 22	V	-	V	V	V	V	V										-	V	V	-	-	V	V	-	-	V	-	V			
	n26 part 90	V	-	V	V	V												-	V	V	-	-	V	V	-	-	V	-	V			
	n66	V	-	V	V	V	V	V	V	V	V							V	-	V	-	-	V	V	-	-	V	-	V			
Spurious at antenna terminal & Radiated Spurious Emissions	n7	V	V	V	Worst case																											
	n25/2	V	V	V	Worst case																											
	n26/5 part 22	V	V	V	Worst case																											
	n26 part 90	V	V	V	Worst case																											
	n66	V	V	V	Worst case																											

ENDC

Test Items	Band	Test Channel			Bandwidth (MHz)														Modulation DFT-S-OFDM					Modulation CP-OFDM				RB #		
		Low	Mid	High	5	10	15	20	25	30	40	50	60	70	80	90	100	BPSK	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	1	Half	Full	
Conducted Output Power	n2	V	V	V	V	V	V	V	V	V	V							V	V	-	-	-	-	-	-	-	-	V	-	-
	n5	V	V	V	V	V	V	V	V									V	V	-	-	-	-	-	-	-	-	V	-	-
	n66	V	V	V	V	V	V	V	V	V								V	V	-	-	-	-	-	-	-	-	V	-	-
Spurious Radiated Emission	n2	V	V	V	Worst case																									
	n5	V	V	V	Worst case																									
	n66	V	V	V	Worst case																									

NR-Inter CA

	Band	Test Channel			Bandwidth (MHz)														Modulation DFT-S-OFDM					Modulation CP-OFDM				RB #		
		Low	Mid	High	5	10	15	20	25	30	40	50	60	70	80	90	100	BPSK	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	1	Half	Full	
Test Items	n2A-n5A	V	V	V	Worst case																									
	n2A-n77A	V	V	V	Worst case																									
	n5A-n7A	V	V	V	Worst case																									
	n5A-n66A	V	V	V	Worst case																									
	n5A-n77A	V	V	V	Worst case																									
	n5A-n78A	V	V	V	Worst case																									
	n7A-n78A	V	V	V	Worst case																									
	n26A-n66A	V	V	V	Worst case																									
	n66A-n77A	V	V	V	Worst case																									

Note;

- All measurement was performed with 1RB or FULL RB or both, we chosen RB condition for each test items as worst case.

Radiated Emission Test

NR Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Resource Block Allocation
				RBs allocated
n7	15	15	DFT-S OFDM - QPSK	1
n25/2	15	10	DFT-S OFDM - BPSK	1
n26/5 part 22	15	20	DFT-S OFDM - QPSK	1
n26 part 90	15	10	DFT-S OFDM - QPSK	1
n66	15	40	DFT-S OFDM - BPSK	1

ENDC

NR Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Resource Block Allocation
				RBs allocated
5A-n2A	15	10-10	DFTS OFDM - BPSK	1
7A-n5A	15	20-10	DFTS OFDM - BPSK	1
5A-n66A	15	10-40	DFTS OFDM - QPSK	1

NR-Inter CA

NR Band	SCS (kHz)		Bandwidth (MHz)	Modulation		Resource Block Allocation
	PCC	SCC		PCC	SCC	RBs allocated
n2A-n5A	15	15	10-20	DFTS OFDM - BPSK	DFTS OFDM - QPSK	1
n2A-n77A	15	30	10-20	DFTS OFDM - BPSK	DFTS OFDM - BPSK	1
n5A-n7A	15	15	20-15	DFTS OFDM - QPSK	DFTS OFDM - QPSK	1
n5A-n66A	15	15	20-40	DFTS OFDM - QPSK	DFTS OFDM - BPSK	1
n5A-n77A	15	30	20-20	DFTS OFDM - QPSK	DFTS OFDM - BPSK	1
n7A-n78A	15	30	15-20	DFTS OFDM - QPSK	DFTS OFDM - BPSK	1
n26A-n66A	15	15	20-40	DFTS OFDM - QPSK	DFTS OFDM - BPSK	1
n66A-n77A	15	30	40-20	DFTS OFDM - BPSK	DFTS OFDM - BPSK	1

1.14. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty	
Conducted Output Power	0.33 dB	
Occupied Bandwidth	0.05 MHz	
Conducted Spurious Emissions	0.99 dB	
Peak to Average Ratio	0.66 dB	
Frequency Stability	116 Hz	
Radiated Emission, 9 kHz to 30 MHz	H	3.60 dB
	V	3.60 dB
Radiated Emission, below 1 GHz	H	4.60 dB
	V	4.90 dB
Radiated Emission, above 1 GHz	H	3.90 dB
	V	3.80 dB

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95 % level of confidence.

1.14. Test Report Revision

Revision	Report Number	Date of Issue	Description
0	F690501-RF-RTL005290	2024.07.29	Initial

1.15. Antenna Information

Ant. Type	Ant. No	Support Band	
		LTE	NR
Dipole Antenna	Ant.1	2, 4, 5, 7, 25, 26, 38, 41, 66	2, 5, 7, 25, 26, 38, 41, 66
	Ant.2		77, 78

Band	Operating Frequency (MHz)	Antenna Peak Gain (dB i)	
		Ant. 1	Ant. 2
LTE 25/2 NR 25/2 GSM 1 900	1 850 ~ 1 915	1.90	
LTE 66/4 NR 66	1 710 ~ 1 780	4.20	
LTE 26/5 NR 26/5 WCDMA V GSM 850	824 ~ 849	1.99	
LTE 26 NR 26	814 ~ 824	0.72	
LTE 7 NR 7	2 500 ~ 2 570	4.43	
LTE 38 NR 38	2 570 ~ 2 620	3.35	
LTE 41 NR 41	2 496 ~ 2 690	4.43	
NR 77	3 450 ~ 3 550		4.69
	3 700 ~ 3 980		4.90
NR 78	3 450 ~ 3 550		4.69
	3 700 ~ 3 800		4.90

1.16. Emission Designator and Max Power

NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.R.P. / E.I.R.P. Average (dB m)	E.R.P. / E.I.R.P. Average (W)	Emission Designator
n25/2	5	DFT-S OFDM	BPSK	1 852.5	1 912.5	23.30	1.90	25.20	0.331	4M49G7D
			QPSK			23.39		25.29	0.338	4M47G7D
			16QAM			22.87		24.77	0.300	4M48D7D
		CP-OFDM	QPSK			21.91		23.81	0.240	4M50G7D
			16QAM			21.35		23.25	0.211	4M51D7D
	10	DFT-S OFDM	BPSK	1 855.0	1 910.0	23.55		25.45	0.351	8M91G7D
			QPSK			23.29		25.19	0.330	8M93G7D
			16QAM			22.22		24.12	0.258	8M97D7D
		CP-OFDM	QPSK			21.87		23.77	0.238	9M27G7D
			16QAM			21.31		23.21	0.209	9M27D7D
	15	DFT-S OFDM	BPSK	1 857.5	1 907.5	23.32		25.22	0.333	13M5G7D
			QPSK			23.34		25.24	0.334	13M5G7D
			16QAM			22.27		24.17	0.261	13M5D7D
		CP-OFDM	QPSK			21.97		23.87	0.244	14M2G7D
			16QAM			21.35		23.25	0.211	14M1D7D
	20	DFT-S OFDM	BPSK	1 860.0	1 905.0	23.35		25.25	0.335	17M9G7D
			QPSK			23.32		25.22	0.333	17M9G7D
			16QAM			22.12		24.02	0.252	17M9D7D
		CP-OFDM	QPSK			21.91		23.81	0.240	18M9G7D
			16QAM			21.28		23.18	0.208	19M0D7D
	25	DFT-S OFDM	BPSK	1 862.5	1 902.5	23.14		25.04	0.319	22M9G7D
			QPSK			23.21		25.11	0.324	22M9G7D
			16QAM			21.98		23.88	0.244	22M9D7D
		CP-OFDM	QPSK			21.85		23.75	0.237	23M8G7D
			16QAM			21.38		23.28	0.213	23M8D7D
	30	DFT-S OFDM	BPSK	1 865.0	1 900.0	23.16		25.06	0.321	28M7G7D
			QPSK			23.23		25.13	0.326	28M6G7D
			16QAM			22.21		24.11	0.258	28M6D7D
		CP-OFDM	QPSK			21.83		23.73	0.236	28M7G7D
			16QAM			21.39		23.29	0.213	28M6D7D
	40	DFT-S OFDM	BPSK	1 870.0	1 895.0	23.39		25.29	0.338	38M6G7D
			QPSK			23.33		25.23	0.333	38M8G7D
			16QAM			22.12		24.02	0.252	38M7D7D
		CP-OFDM	QPSK			21.91		23.81	0.240	38M5G7D
			16QAM			21.28		23.18	0.208	38M6D7D
n26/5 part22	5	DFT-S OFDM	BPSK	826.5	846.5	23.33	1.99	23.22	0.210	4M47G7D
			QPSK			23.36		23.20	0.209	4M51G7D
			16QAM			22.23		22.07	0.161	4M48D7D
		CP-OFDM	QPSK			21.99		21.83	0.152	4M50G7D
			16QAM			21.44		21.28	0.134	4M50D7D
	10	DFT-S OFDM	BPSK	829.0	844.0	23.38		22.22	0.167	8M95G7D
			QPSK			23.40		23.24	0.211	8M93G7D
			16QAM			22.21		22.05	0.160	8M95D7D
		CP-OFDM	QPSK			21.98		21.82	0.152	9M27G7D
			16QAM			21.42		21.26	0.134	9M27D7D
	15	DFT-S OFDM	BPSK	831.5	841.5	23.30		23.14	0.206	13M5G7D
			QPSK			23.41		23.25	0.211	13M5G7D
			16QAM			22.28		22.12	0.163	13M5D7D
		CP-OFDM	QPSK			22.00		21.84	0.153	14M2G7D
			16QAM			21.47		21.31	0.135	14M1D7D
	20	DFT-S OFDM	BPSK	834.0	839.0	23.39		23.23	0.210	18M0G7D
			QPSK			23.56		23.40	0.219	17M9G7D
			16QAM			22.34		22.18	0.165	17M9D7D
		CP-OFDM	QPSK			22.02		21.86	0.153	18M9G7D
			16QAM			21.53		21.37	0.137	18M9D7D

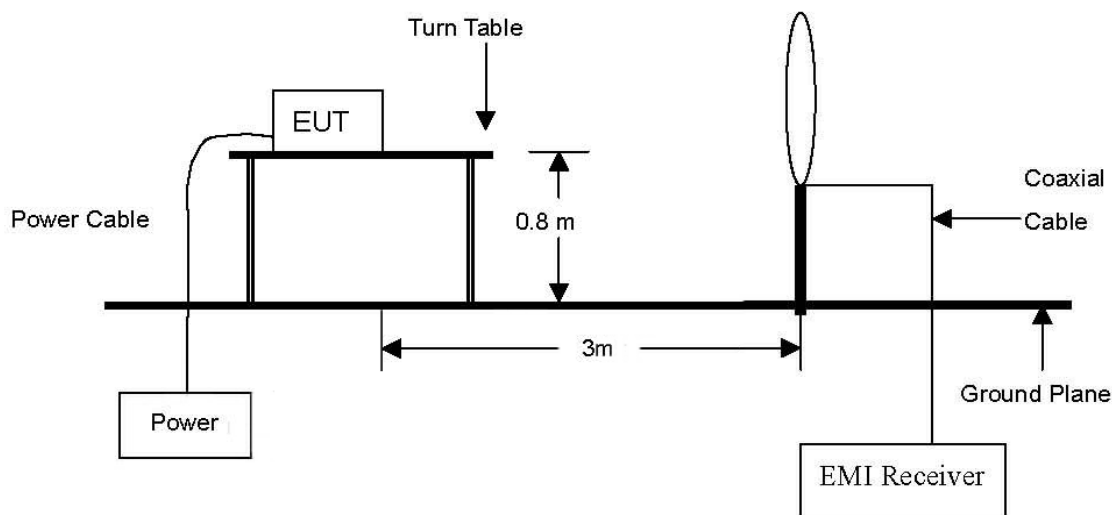
NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.R.P. / E.I.R.P. Average (dB m)	E.R.P. / E.I.R.P. Average (W)	Emission Designator
n26 part90	5	DFT-S OFDM	BPSK	816.5	821.5	23.43	0.72	22.00	0.158	4M48G7D
			QPSK			23.41		21.98	0.158	4M50G7D
			16QAM			22.33		20.90	0.123	4M48D7D
		CP-OFDM	QPSK			21.98		20.55	0.114	4M50G7D
			16QAM			21.48		20.05	0.101	4M50D7D
	10	DFT-S OFDM	BPSK	819.0	819.0	23.50		22.07	0.161	8M95G7D
			QPSK			23.52		22.09	0.162	8M95G7D
			16QAM			22.24		20.81	0.121	8M91D7D
		CP-OFDM	QPSK			21.92		20.49	0.112	9M27G7D
			16QAM			21.40		19.97	0.099	9M27D7D
n7	5	DFT-S OFDM	BPSK	2 502.5	2 567.5	23.29	4.43	27.72	0.592	4M47G7D
			QPSK			23.36		27.79	0.601	4M50G7D
			16QAM			22.12		26.55	0.452	4M48D7D
		CP-OFDM	QPSK			21.93		26.36	0.433	4M50G7D
			16QAM			21.36		25.79	0.379	4M49D7D
	10	DFT-S OFDM	BPSK	2 505.0	2 565.0	23.32		27.75	0.596	8M93G7D
			QPSK			23.39		27.82	0.605	8M97G7D
			16QAM			22.18		26.61	0.458	8M93D7D
		CP-OFDM	QPSK			21.98		26.41	0.438	9M29G7D
			16QAM			21.32		25.75	0.376	9M27D7D
	15	DFT-S OFDM	BPSK	2 507.5	2 562.5	23.40		27.83	0.607	13M5G7D
			QPSK			23.45		27.88	0.614	13M5G7D
			16QAM			22.11		26.54	0.451	13M5D7D
		CP-OFDM	QPSK			21.91		26.34	0.431	14M1G7D
			16QAM			21.28		25.71	0.372	14M1D7D
	20	DFT-S OFDM	BPSK	2 510.0	2 560.0	23.30		27.73	0.593	17M9G7D
			QPSK			23.27		27.70	0.589	17M9G7D
			16QAM			22.06		26.49	0.446	17M9D7D
		CP-OFDM	QPSK			21.88		26.31	0.428	18M9G7D
			16QAM			21.23		25.66	0.368	18M9D7D

NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.R.P. / E.I.R.P. Average (dB m)	E.R.P. / E.I.R.P. Average (W)	Emission Designator
n66	5	DFT-S OFDM	BPSK	1 712.5	1 777.5	23.43	4.20	27.63	0.579	4M48G7D
			QPSK			23.48		27.68	0.586	4M47G7D
			16QAM			22.28		26.48	0.445	4M49D7D
		CP- OFDM	QPSK			21.99		26.19	0.416	4M51G7D
			16QAM			21.42		25.62	0.365	4M47D7D
			16QAM			23.61		27.81	0.604	8M91G7D
	10	DFT-S OFDM	BPSK	1 715.0	1 775.0	23.66		27.86	0.611	8M91G7D
			QPSK			22.10		26.30	0.427	8M91D7D
			16QAM			21.90		26.10	0.407	9M29G7D
		CP- OFDM	QPSK			21.29		25.49	0.354	9M27D7D
			16QAM			23.71		23.71	0.235	13M5G7D
			QPSK			23.76		23.76	0.238	13M5G7D
	15	DFT-S OFDM	BPSK	1 717.5	1 772.5	23.76		26.87	0.486	13M5D7D
			QPSK			22.67		26.57	0.454	14M1G7D
			16QAM			22.37		26.01	0.399	14M1D7D
		CP- OFDM	QPSK			21.81		27.86	0.611	17M9G7D
			16QAM			22.68		27.94	0.622	17M9G7D
			16QAM			22.35		26.88	0.488	17M9D7D
	20	DFT-S OFDM	BPSK	1 720.0	1 770.0	23.74		26.55	0.452	18M9G7D
			QPSK			22.80		26.00	0.398	18M9D7D
			16QAM			21.80		27.92	0.619	22M8G7D
		CP- OFDM	QPSK			23.63		27.83	0.607	22M9G7D
			16QAM			22.72		26.92	0.492	22M9D7D
			16QAM			22.18		26.38	0.435	23M8G7D
	25	DFT-S OFDM	BPSK	1 722.5	1 767.5	21.38		25.58	0.361	23M7D7D
			QPSK			23.70		27.90	0.617	28M5G7D
			16QAM			23.58		27.78	0.600	28M5G7D
		CP- OFDM	QPSK			22.78		26.98	0.499	28M5D7D
			16QAM			22.17		26.37	0.434	28M5G7D
			16QAM			21.57		25.77	0.378	28M6D7D
	30	DFT-S OFDM	BPSK	1 725.0	1 765.0	23.84		28.04	0.637	38M5G7D
			QPSK			23.79		27.99	0.630	38M6G7D
			16QAM			22.68		26.88	0.488	38M5D7D
		CP- OFDM	QPSK			22.37		26.57	0.454	38M5G7D
			16QAM			21.83		26.03	0.401	38M6D7D
			16QAM							

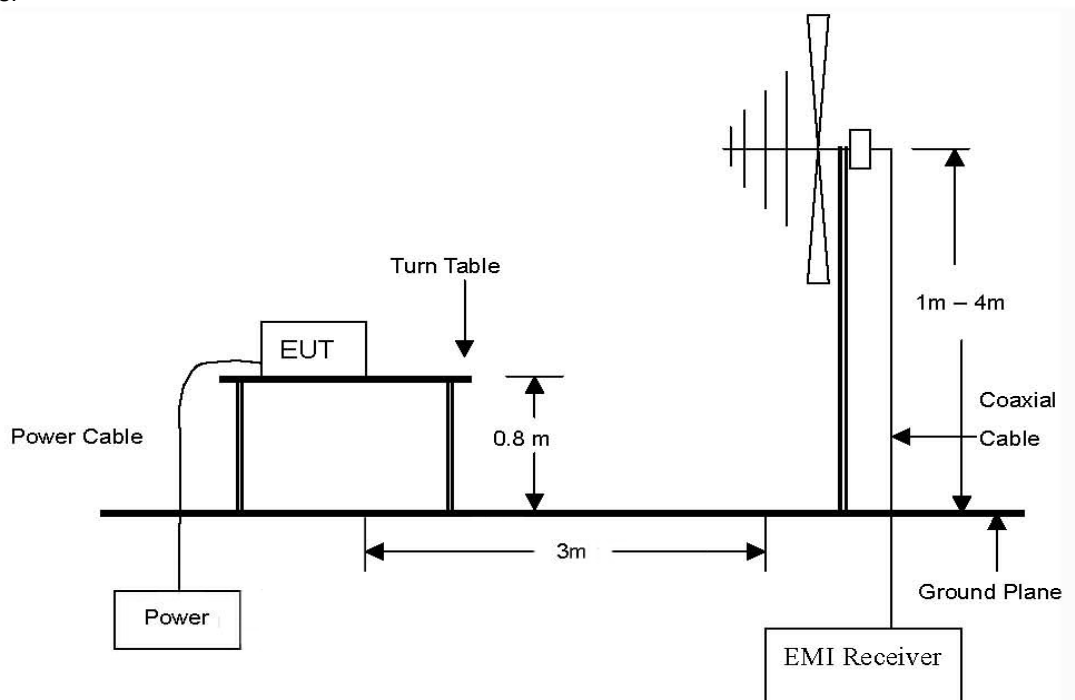
2. E.R.P. / E.I.R.P. & Radiated Spurious Emissions

2.1. Test setup

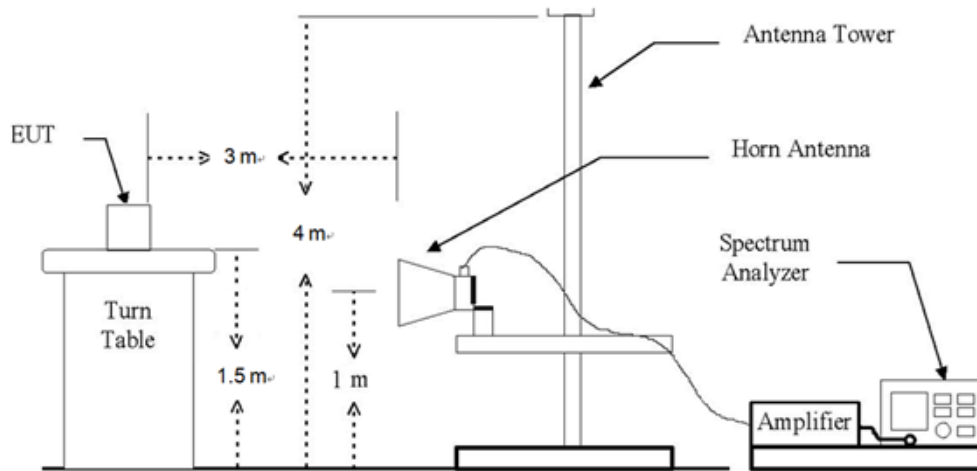
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 GHz to 30 GHz Emissions.



2.2. Limit

2.2.1. Limit of E.R.P. / E.I.R.P.

- §22.913(a)(5), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.
- §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.
- §27.50(d)(4), fixed, mobile, and portable (hand-held) stations operating in the 1 710-1 755 MHz band and mobile and portable stations operating in the 1 695-1 710 MHz and 1 755-1 780 MHz bands are limited to 1 watt EIRP.
- §27.50(h)(2), Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.
- §90.635(b), the maximum output power of the transmitter for mobile stations is 100 watts (20 dBW).

2.2.2. Limit of Radiated Spurious Emissions

- §22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

- §24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

- §27.53(h)(1), for operations in the 1 695-1 710 MHz, 1 710-1 755 MHz, 1 755-1 780 MHz, 1 915-1 920 MHz, 1 995-2 000 MHz, 2 000-2 020 MHz, 2 110-2 155 MHz, 2 155-2 180 MHz, and 2 180-2 200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

- §27.53(m)(4), for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log_{10}(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log_{10}(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log_{10}(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log_{10}(P)$ dB on all frequencies between 2 490.5 MHz and 2 496 MHz and $55 + 10 \log_{10}(P)$ dB at or below 2 490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2 495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

- §90.691(a), out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f / 6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

2.3. Test Procedure

2.3.1. E.R.P. or E.I.R.P. from conducted RF output power

According to subclause 5.2.5.5 of ANSI C63.26-2015 E.R.P. and E.I.R.P. are defined as the product of the power supplied to the antenna and its gain.

The relevant equation for determining the E.R.P. or E.I.R.P. from the conducted RF output power measured using the guidance provided above is:

$$\text{E.R.P. or E.I.R.P.} = P_{\text{Meas}} + G_T$$

where:

E.R.P. or E.I.R.P. = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

2.3.2. Radiated Spurious Emissions

The test based on ANSI/TIA 603E: 2016 and ANSI C63.26-2015 and KDB 971168 D01 Power Meas License Digital Systems v03r01.

1. On a test site, the EUT shall be placed at 0.8 m or 1.5 m height on a turn table, and in the position close to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.
4. Radiated spurious emissions measurement method was set as follows:
 RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz, VBW ≥ 3 × RBW,
 Detector = RMS, trace mode = max hold, per the guidelines of KDB 971168 D01 Power Meas License Digital Systems v03r01.
5. The transmitter shall be switched on, the measuring receiver shall be tuned to the frequency of the transmitter under test.
6. The test antenna shall be raised and lowered through the specified range of height until the maximum signal level is detected by the measuring receiver.
7. The transmitter shall be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
8. The test antenna shall be raised and lowered again through the specified range of height until the maximum signal level is detected by the measuring receiver.
9. The maximum signal level detected by the measuring receiver shall be noted.
10. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
11. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
12. The measurement shall be repeated with the test antenna orientated for horizontal polarization.

2.4. Test Results

Ambient temperature : (23 ± 1) °C
Relative humidity : 47 % R.H.

2.4.1. E.R.P. / E.I.R.P.

Band	Frequency (MHz)	Maximum Conducted Power (dB m)	Maximum Conducted Power (W)	Antenna Gain (dB i)	Maximum E.I.R.P. (dB m)	Maximum E.I.R.P. (W)	Maximum E.R.P. (dB m)	Maximum E.R.P. (W)	Output Power Limit
n7	2 500 ~ 2 570	23.45	0.221	4.43	27.88	0.614			2 W E.I.R.P.
n25/2	1 850 ~ 1 915	23.55	0.226	1.90	25.45	0.351			2 W E.I.R.P.
n26/5 part 22	824 ~ 849	23.56	0.227	1.99	25.55	0.359	23.40	0.219	7 W E.R.P.
n26 part 90	814 ~ 824	23.52	0.225	0.72	24.24	0.265	22.09	0.162	100 W
n66	1 710 ~ 1 755	23.84	0.242	4.20	28.04	0.637			1 W E.I.R.P.

Remark;

1. E.I.R.P. (dB m) = Maximum Conducted Power (dB m) + Antenna Gain (dB i)
2. E.R.P. (dB m) = E.I.R.P. (dB m) - 2.15 (dB); where E.R.P. and E.I.R.P. are expressed in consistent units.

2.4.2. Radiated Spurious Emissions

NR Band 25/2 (10 MHz - DFT-S-OFDM BPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 855.0 MHz)									
5 551.83	40.08	H	34.10	-29.67	44.51	-95.26	-50.76	-13	37.76
Above 5 600.00	Not detected	–	–	–	–	–	–	–	–
Middle Channel (1 882.5 MHz)									
5 634.28	40.21	H	34.10	-26.66	47.65	-95.26	<u>-47.61</u>	-13	34.61
Above 5 700.00	Not detected	–	–	–	–	–	–	–	–
High Channel (1 910.0 MHz)									
5 716.66	41.71	H	34.13	-28.62	47.22	-95.26	-48.04	-13	35.04
Above 5 800.00	Not detected	–	–	–	–	–	–	–	–

NR Band 26/5 Part 22 (20 MHz - DFT-S-OFDM QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (834.0 MHz)									
1 649.47	52.83	H	25.80	-36.61	42.02	-97.41	-55.39	-13	42.39
1 649.59	53.90	V	25.80	-36.61	43.09	-97.41	-54.32	-13	41.32
2 474.14	77.80	H	28.30	-33.02	73.08	-97.41	-24.33	-13	11.33
2 474.20	83.03	V	28.30	-33.02	78.31	-97.41	-19.10	-13	6.10
3 298.88	46.39	H	31.00	-32.89	44.50	-97.41	-52.92	-13	39.92
3 298.96	49.60	V	31.00	-32.89	47.71	-97.41	-49.70	-13	36.70
4 123.68	61.09	H	32.10	-29.34	63.85	-97.41	-33.56	-13	20.56
4 123.97	64.83	V	32.10	-29.35	67.58	-97.41	-29.83	-13	16.83
5 773.12	51.19	H	34.25	-28.88	56.56	-97.41	-40.85	-13	27.85
5 772.99	56.97	V	34.25	-28.88	62.34	-97.41	-35.07	-13	22.07
7 422.45	45.80	V	36.26	-27.75	54.31	-97.41	-43.10	-13	30.10
Above 7 500.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (836.5 MHz)									
1 654.52	52.11	H	25.88	-36.53	41.46	-97.41	-55.96	-13	42.96
1 654.45	56.06	V	25.88	-36.53	45.41	-97.41	-52.00	-13	39.00
2 481.73	72.90	H	28.33	-33.36	67.87	-97.41	-29.54	-13	16.54
2 481.71	77.39	V	28.33	-33.36	72.36	-97.41	-25.05	-13	12.05
3 309.08	45.89	H	31.00	-32.96	43.93	-97.41	-53.48	-13	40.48
3 308.99	50.55	V	31.00	-32.95	48.60	-97.41	-48.81	-13	35.81
4 136.13	57.56	H	32.10	-29.93	59.73	-97.41	-37.68	-13	24.68
4 136.21	62.49	V	32.10	-29.93	64.66	-97.41	-32.76	-13	19.76
5 790.49	49.47	H	34.28	-27.27	56.48	-97.41	-40.93	-13	27.93
5 790.62	54.05	V	34.28	-27.25	61.08	-97.41	-36.33	-13	23.33
7 445.06	44.33	V	36.21	-27.44	53.10	-97.41	-44.31	-13	31.31
Above 7 500.00	Not detected	-	-	-	-	-	-	-	-

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
High Channel (839.0 MHz)									
1 659.53	54.38	H	25.97	-36.45	43.90	-97.41	-53.52	-13	40.52
1 659.29	54.02	V	25.97	-36.45	43.54	-97.41	-53.87	-13	40.87
2 489.21	76.91	H	28.36	-33.79	71.48	-97.41	-25.93	-13	12.93
2 489.13	79.78	V	28.36	-33.79	74.35	-97.41	-23.06	-13	10.06
3 299.00	39.38	H	31.00	-32.89	37.49	-97.41	-59.92	-13	46.92
3 290.80	39.39	V	30.96	-32.90	37.45	-97.41	-59.96	-13	46.96
4 148.62	57.34	H	32.10	-30.52	58.92	-97.41	-38.49	-13	25.49
4 148.65	59.74	V	32.10	-30.52	61.32	-97.41	-36.09	-13	23.09
5 808.22	49.72	H	34.32	-27.07	56.97	-97.41	-40.44	-13	27.44
5 808.27	57.44	V	34.32	-27.08	64.68	-97.41	-32.73	-13	19.73
7 467.48	41.12	V	36.17	-27.74	49.55	-97.41	-47.86	-13	34.86
Above 7 500.00	Not detected	—	—	—	—	—	—	—	—

NR Band 26_Part 90 (10 MHz - DFT-S-OFDM QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (819.0 MHz)									
1 629.13	52.72	H	25.63	-36.50	41.85	-97.41	-55.56	-13	42.56
1 629.24	50.42	V	25.63	-36.50	39.55	-97.41	-57.86	-13	44.86
2 443.82	73.77	H	28.19	-34.22	67.74	-97.41	-29.67	-13	16.67
2 443.75	77.00	V	28.19	-34.22	70.97	-97.41	-26.44	-13	13.44
3 258.23	44.69	H	30.83	-32.76	42.76	-97.41	-54.65	-13	41.65
3 258.46	46.97	V	30.83	-32.76	45.04	-97.41	-52.37	-13	39.37
4 073.00	56.96	H	32.10	-31.41	57.65	-97.41	-39.76	-13	26.76
4 073.05	61.97	V	32.10	-31.41	62.66	-97.41	-34.75	-13	21.75
5 702.09	50.12	H	34.10	-28.25	55.97	-97.41	-41.44	-13	28.44
5 701.96	48.14	V	34.10	-28.25	53.99	-97.41	-43.42	-13	30.42
Above 5 800.00	Not detected	-	-	-	-	-	-	-	-

NR Band 7 (15 MHz - DFT-S-OFDM QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 507.5 MHz)									
7 501.98	45.69	V	36.10	-27.35	54.44	-95.26	-40.82	-25	15.82
Above 7 600.00	Not detected	–	–	–	–	–	–	–	–
Middle Channel (2 535.0 MHz)									
7 584.52	45.93	V	36.00	-27.47	54.46	-95.26	<u>-40.80</u>	-25	15.80
Above 7 600.00	Not detected	–	–	–	–	–	–	–	–
High Channel (2 562.5 MHz)									
7 666.74	42.49	V	35.97	-26.74	51.72	-95.26	-43.54	-25	18.54
Above 7 700.00	Not detected	–	–	–	–	–	–	–	–

NR Band 66 (40 MHz - DFT-S-OFDM BPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 730.0 MHz)									
5 132.34	37.26	V	33.56	-29.88	40.94	-95.26	-54.32	-13	41.32
Above 5 200.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 745.0 MHz)									
5 177.63	41.98	V	33.66	-29.27	46.37	-95.26	-48.89	-13	35.89
Above 5 200.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 760.0 MHz)									
5 222.67	38.11	V	33.75	-30.11	41.75	-95.26	-53.52	-13	40.52
Above 5 300.00	Not detected	-	-	-	-	-	-	-	-

ENDC

5A-n2A (10 MHz - DFT-S-OFDM BPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 855.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 880.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 905.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

7A-n5A (20 MHz - DFT-S-OFDM BPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (834.0 MHz)									
1 649.27	48.51	H	25.79	-36.60	37.70	-97.41	-59.71	-13	46.71
1 649.24	45.59	V	25.79	-36.60	34.78	-97.41	-62.63	-13	49.63
2 473.83	55.47	H	28.30	-33.03	50.74	-97.41	-46.67	-13	33.67
2 473.57	51.94	V	28.29	-33.05	47.18	-97.41	-50.23	-13	37.23
Above 2 500.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (836.5 MHz)									
1 664.23	47.57	H	26.06	-36.36	37.27	-97.41	-60.14	-13	47.14
1 664.09	47.58	V	26.05	-36.37	37.26	-97.41	-60.15	-13	47.15
2 496.38	58.14	H	28.39	-34.19	52.34	-97.41	-45.07	-13	32.07
2 496.27	53.01	V	28.39	-34.19	47.21	-97.41	-50.20	-13	37.20
Above 2 500.00	Not detected	-	-	-	-	-	-	-	-
High Channel (839.0 MHz)									
1 679.16	46.79	H	26.32	-36.19	36.92	-97.41	-60.49	-13	47.49
1 679.08	48.58	V	26.32	-36.19	38.71	-97.41	-58.70	-13	45.70
2 518.82	53.12	H	28.48	-34.34	47.26	-97.41	-50.16	-13	37.16
2 518.84	50.87	V	28.48	-34.34	45.01	-97.41	-52.40	-13	39.40
Above 2 600.00	Not detected	-	-	-	-	-	-	-	-

5A-n66A (40 MHz - DFT-S-OFDM BPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 730.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 745.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 760.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

NR-Inter CA

n2A-n5A

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 10 MHz + SCC 20 MHz_ Low Channel (1 855.0 MHz + 834.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 10 MHz + SCC 20 MHz_ Middle Channel (1 880.0 MHz + 836.5 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 10 MHz + SCC 20 MHz_ High Channel (1 905.0 MHz + 839.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

n2A-n77A_Low Band

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 10 MHz + SCC 20 MHz_ Low Channel (1 855.0 MHz + 3 460.02 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 10 MHz + SCC 20 MHz_ Middle Channel (1 880.0 MHz + 3 500.01 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 10 MHz + SCC 20 MHz_ High Channel (1 905.0 MHz + 3 540.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

n2A-n77A_High Band

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 10 MHz + SCC 20 MHz_ Low Channel (1 855.0 MHz + 3 710.01 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 10 MHz + SCC 20 MHz_ Middle Channel (1 880.0 MHz + 3 840.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 10 MHz + SCC 20 MHz_ High Channel (1 905.0 MHz + 3 969.99 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

n5A-n7A

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 20 MHz + SCC 15 MHz_ Low Channel (834.0 MHz + 2 507.5 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 20 MHz + SCC 15 MHz_ Middle Channel (836.5 MHz + 2 535.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 20 MHz + SCC 15 MHz_ High Channel (839.0 MHz + 2 562.5 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

n5A-n66A

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 20 MHz + SCC 40 MHz_ Low Channel (834.0 MHz + 1 730.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 20 MHz + SCC 40 MHz_ Middle Channel (836.5 MHz + 1 745.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 20 MHz + SCC 40 MHz_ High Channel (839.0 MHz + 1 760.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

n5A-n77A_Low Band

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 20 MHz + SCC 20 MHz_ Low Channel (834.0 MHz + 3 460.02 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 20 MHz + SCC 20 MHz_ Middle Channel (836.5 MHz + 3 500.01 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 20 MHz + SCC 20 MHz_ High Channel (839.0 MHz + 3 540.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

n5A-n77A_High Band

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 20 MHz + SCC 20 MHz_ Low Channel (834.0 MHz + 3 710.01 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 20 MHz + SCC 20 MHz_ Middle Channel (836.5 MHz + 3 840.00 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 20 MHz + SCC 20 MHz_ High Channel (839.0 MHz + 3 969.99 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

n7A-n78A_Low Band

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 15 MHz + SCC 20 MHz_ Low Channel (2 507.5 MHz + 3 460.02 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 15 MHz + SCC 20 MHz_ Middle Channel (2 535.0 MHz + 3 500.01 MHz)									
7 584.46	43.75	V	36.00	-27.47	52.28	-95.26	-42.98	-25	17.98
Above 7 600.00	Not detected	-	-	-	-	-	-	-	-
PCC 15 MHz + SCC 20 MHz_ High Channel (2 562.5 MHz + 3 540.00 MHz)									
7 584.51	44.11	V	36.00	-27.47	52.64	-95.26	<u>-42.62</u>	-25	17.62
Above 7 600.00	Not detected	-	-	-	-	-	-	-	-

n7A-n78A_High Band

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 15 MHz + SCC 20 MHz_ Low Channel (2 507.5 MHz + 3 710.01 MHz)									
7 584.27	43.13	V	36.00	-27.47	51.66	-95.26	<u>-43.60</u>	-25	18.60
Above 7 600.00	Not detected	-	-	-	-	-	-	-	-
PCC 15 MHz + SCC 20 MHz_ Middle Channel (2 535.0 MHz + 3 750.00 MHz)									
7 584.35	42.90	V	36.00	-27.47	51.43	-95.26	-43.83	-25	18.83
Above 7 600.00	Not detected	-	-	-	-	-	-	-	-
PCC 15 MHz + SCC 20 MHz_ High Channel (2 562.5 MHz + 3 789.99 MHz)									
7 584.31	43.01	V	36.00	-27.47	51.54	-95.26	-43.72	-25	18.72
Above 7 600.00	Not detected	-	-	-	-	-	-	-	-

n26A_Part 22-n66A

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 10 MHz + SCC 40 MHz_ Low Channel (829.0 MHz + 1 730.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 10 MHz + SCC 40 MHz_ Middle Channel (836.5 MHz + 1 745.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 10 MHz + SCC 40 MHz_ High Channel (844.0 MHz + 1 760.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

n26A_Part 90-n66A

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 10 MHz + SCC 40 MHz_ Low Channel (819.0 MHz + 1 730.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 10 MHz + SCC 40 MHz_ Middle Channel (819.0 MHz + 1 745.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
PCC 10 MHz + SCC 40 MHz_ High Channel (819.0 MHz + 1 760.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

n66A-n77A_Low Band

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 40 MHz + SCC 20 MHz_ Low Channel (1 730.0 MHz + 3 460.02 MHz)									
5 207.00	40.69	H	33.71	-30.00	44.40	-95.26	-50.86	-13	37.86
Above 5 300.00	Not detected	-	-	-	-	-	-	-	-
PCC 40 MHz + SCC 20 MHz_ Middle Channel (1 745.0 MHz + 3 500.01 MHz)									
5 207.15	40.05	H	33.71	-30.00	43.76	-95.26	-51.50	-13	38.50
Above 5 300.00	Not detected	-	-	-	-	-	-	-	-
PCC 40 MHz + SCC 20 MHz_ High Channel (1 760.0 MHz + 3 540.00 MHz)									
5 207.01	40.76	H	33.71	-30.00	44.47	-95.26	<u>-50.80</u>	-13	37.80
Above 5 300.00	Not detected	-	-	-	-	-	-	-	-

n66A-n77A_High Band

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 40 MHz + SCC 20 MHz_ Low Channel (1 730.0 MHz + 3 710.01 MHz)									
5 207.14	45.87	H	33.71	-30.00	49.58	-95.26	<u>-45.68</u>	-13	32.68
Above 5 300.00	Not detected	-	-	-	-	-	-	-	-
PCC 40 MHz + SCC 20 MHz_ Middle Channel (1 745.0 MHz + 3 840.00 MHz)									
5 207.09	45.36	H	33.71	-30.00	49.07	-95.26	-46.19	-13	33.19
Above 5 300.00	Not detected	-	-	-	-	-	-	-	-
PCC 40 MHz + SCC 20 MHz_ High Channel (1 760.0 MHz + 3 969.99 MHz)									
5 207.04	45.66	H	33.71	-30.00	49.37	-95.26	-45.90	-13	32.90
Above 5 300.00	Not detected	-	-	-	-	-	-	-	-

Remark;

1. AF = Antenna Factor, CL = Cable Loss, CF = Conversion Factor.
2. E (dBμV/m) = Measured Level (dBμV) + Antenna Factor (dB/m) + AMP (dB) + Cable Loss (dB).
3. E.I.R.P. (dB m) = E (dBμV/m) + CF (dB).
4. E.R.P. (dB m) = E (dBμV/m) + CF (dB) - 2.15 (dB); where E.R.P. and E.I.R.P. are expressed in consistent units.
5. CF (dB) = 20 log D - 104.8; where D is the measurement distance in meters, According to KDB 971168 D01 v03r01 5.8.4.
6. The frequency spectrum is examined from 9 kHz to the 10th harmonic of the fundamental frequency of the transmitter. No other spurious and harmonic emissions were reported greater than listed emissions above table.

3. Conducted Output Power

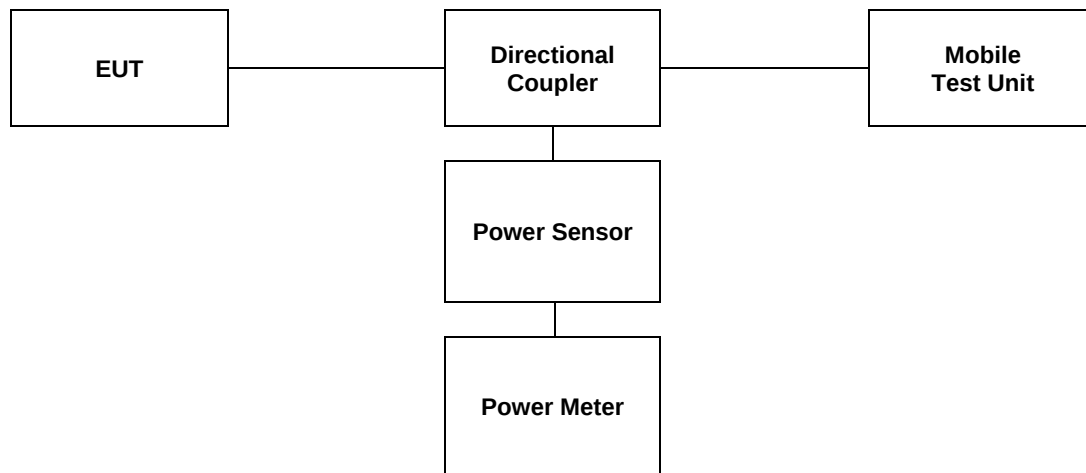
3.1. Limit

CFR 47, Section FCC §2.1046.

3.2. Test Procedure

Output power shall be measured at the RF output terminals for all configurations.

1. The RF output of the transmitter was connected to the input of the mobile test unit in order to establish communication with the EUT.
2. The EUT was set up for the max. output power with pseudo random data modulation by using mobile test unit parameters.
3. The measurement performed using a wideband RF power meter.
4. This EUT was tested under all configurations and the highest power was investigated and reported.



3.3. Test Result

Ambient temperature : (23 ± 1) °C
Relative humidity : 47 % R.H.

NR Band 7												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							500500 (2 502.5 MHz)		507000 (2 535.0 MHz)		513500 (2 567.5 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.20	0.209	23.25	0.211	22.95	0.197
			QPSK		1	1	23.30	0.214	23.36	0.217	23.03	0.201
			16QAM		1	1	22.05	0.160	22.12	0.163	21.83	0.152
			64QAM		1	1	20.82	0.121	20.87	0.122	20.59	0.115
			256QAM		1	1	18.23	0.067	18.26	0.067	18.11	0.065
			BPSK	Inner_1RB Right	1	23	23.26	0.212	23.19	0.208	22.94	0.197
			QPSK		1	23	23.25	0.211	23.35	0.216	23.00	0.200
			BPSK	Inner_Full	12	6	23.26	0.212	23.29	0.213	23.00	0.200
			QPSK		12	6	23.23	0.210	23.30	0.214	23.04	0.201
			BPSK	Outer_Full	25	0	22.37	0.173	22.34	0.171	22.09	0.162
			QPSK		25	0	22.28	0.169	22.37	0.173	22.11	0.163
			BPSK	Edge_1RB Left	1	0	22.20	0.166	22.34	0.171	21.97	0.157
			QPSK		1	0	22.30	0.170	22.32	0.171	22.06	0.161
			BPSK	Edge_Full Left	2	0	22.32	0.171	22.45	0.176	22.19	0.166
			QPSK		2	0	22.34	0.171	22.32	0.171	22.09	0.162
			BPSK	Edge_1RB Right	1	24	22.22	0.167	22.32	0.171	21.96	0.157
			QPSK		1	24	22.24	0.167	22.32	0.171	22.05	0.160
			BPSK	Edge_Full Right	2	23	22.34	0.171	22.39	0.173	22.17	0.165
			QPSK		2	23	22.26	0.168	22.35	0.172	22.08	0.161
		CP OFDM	QPSK	Inner_1RB	1	1	21.89	0.155	21.93	0.156	21.56	0.143
			16QAM	Left	1	1	21.33	0.136	21.36	0.137	21.04	0.127
NR Band 7												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							501000 (2 505.0 MHz)		507000 (2 535.0 MHz)		513000 (2 565.0 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	22.97	0.198	23.32	0.215	22.94	0.197
			QPSK		1	1	23.09	0.204	23.31	0.214	23.10	0.204
			16QAM		1	1	21.95	0.157	22.18	0.165	21.71	0.148
			64QAM		1	1	20.75	0.119	20.92	0.124	20.66	0.116
			256QAM		1	1	18.14	0.065	18.27	0.067	18.10	0.065
			BPSK	Inner_1RB Right	1	50	23.12	0.205	23.25	0.211	22.85	0.193
			QPSK		1	50	23.16	0.207	23.39	0.218	22.97	0.198
			BPSK	Inner_Full	25	12	23.10	0.204	23.29	0.213	23.04	0.201
			QPSK		25	12	23.15	0.207	23.38	0.218	22.96	0.198
			BPSK	Outer_Full	50	0	22.22	0.167	22.32	0.171	22.11	0.163
			QPSK		50	0	22.17	0.165	22.39	0.173	22.01	0.159
			BPSK	Edge_1RB Left	1	0	22.06	0.161	22.26	0.168	21.87	0.154
			QPSK		1	0	22.07	0.161	22.26	0.168	21.98	0.158
			BPSK	Edge_Full Left	2	0	22.11	0.163	22.27	0.169	21.97	0.157
			QPSK		2	0	22.03	0.160	22.28	0.169	21.98	0.158
			BPSK	Edge_1RB Right	1	51	22.08	0.161	22.27	0.169	21.83	0.152
			QPSK		1	51	22.10	0.162	22.31	0.170	21.90	0.155
			BPSK	Edge_Full Right	2	50	22.16	0.164	22.40	0.174	21.95	0.157
			QPSK		2	50	22.05	0.160	22.34	0.171	21.93	0.156
		CP OFDM	QPSK	Inner_1RB	1	1	21.76	0.150	21.98	0.158	21.51	0.142
			16QAM	Left	1	1	21.17	0.131	21.32	0.136	20.93	0.124

NR Band 7												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							501500 (2 507.5 MHz)		507000 (2 535.0 MHz)		512500 (2 562.5 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.03	0.201	23.40	0.219	22.98	0.199
			QPSK		1	1	23.17	0.207	23.45	0.221	22.94	0.197
			16QAM		1	1	22.06	0.161	22.11	0.163	21.76	0.150
			64QAM		1	1	20.83	0.121	20.89	0.123	20.51	0.112
			256QAM	1	1	18.26	0.067	18.45	0.070	18.06	0.064	
			BPSK	Inner_1RB Right	1	77	23.05	0.202	23.35	0.216	22.97	0.198
			QPSK		1	77	23.23	0.210	23.30	0.214	22.87	0.194
			BPSK	Inner_Full	36	18	23.12	0.205	23.33	0.215	23.09	0.204
			QPSK		36	18	23.18	0.208	23.33	0.215	22.96	0.198
			BPSK	Outer_Full	75	0	22.15	0.164	22.38	0.173	22.06	0.161
			QPSK		75	0	22.21	0.166	22.46	0.176	21.96	0.157
			BPSK	Edge_1RB Left	1	0	22.00	0.158	22.27	0.169	21.82	0.152
			QPSK		1	0	22.14	0.164	22.36	0.172	22.00	0.158
			BPSK	Edge_Full Left	2	0	22.04	0.160	22.31	0.170	22.13	0.163
			QPSK		2	0	22.09	0.162	22.37	0.173	22.02	0.159
			BPSK	Edge_1RB Right	1	78	22.05	0.160	22.36	0.172	21.90	0.155
			QPSK		1	78	22.14	0.164	22.32	0.171	21.82	0.152
			BPSK	Edge_Full Right	2	77	22.09	0.162	22.39	0.173	22.02	0.159
		QPSK	2		77	22.16	0.164	22.42	0.175	22.03	0.160	
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.84	0.153	21.91	0.155	21.64	0.146
			16QAM		1	1	21.20	0.132	21.28	0.134	21.00	0.126

NR Band 7												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							502000 (2 510.0 MHz)		507000 (2 535.0 MHz)		512000 (2 560.0 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.04	0.201	23.15	0.207	22.97	0.198
			QPSK		1	1	23.18	0.208	23.26	0.212	22.99	0.199
			16QAM		1	1	22.06	0.161	22.06	0.161	21.86	0.153
			64QAM		1	1	20.79	0.120	20.83	0.121	20.63	0.116
			256QAM	1	1	18.27	0.067	18.31	0.068	18.13	0.065	
			BPSK	Inner_1RB Right	1	104	23.17	0.207	23.18	0.208	23.00	0.200
			QPSK		1	104	23.27	0.212	23.20	0.209	23.00	0.200
			BPSK	Inner_Full	50	25	23.30	0.214	23.30	0.214	23.11	0.205
			QPSK		50	25	23.23	0.210	23.27	0.212	23.03	0.201
			BPSK	Outer_Full	100	0	22.30	0.170	22.30	0.170	22.12	0.163
			QPSK		100	0	22.22	0.167	22.30	0.170	22.05	0.160
			BPSK	Edge_1RB Left	1	0	22.10	0.162	22.10	0.162	21.92	0.156
			QPSK		1	0	22.14	0.164	22.20	0.166	22.08	0.161
			BPSK	Edge_Full Left	2	0	22.19	0.166	22.21	0.166	22.07	0.161
			QPSK		2	0	22.09	0.162	22.13	0.163	22.01	0.159
			BPSK	Edge_1RB Right	1	105	22.14	0.164	22.18	0.165	21.88	0.154
			QPSK		1	105	22.17	0.165	22.18	0.165	22.01	0.159
			BPSK	Edge_Full Right	2	104	22.24	0.167	22.30	0.170	21.92	0.156
		QPSK	2		104	22.18	0.165	22.19	0.166	22.02	0.159	
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.84	0.153	21.88	0.154	21.68	0.147
			16QAM		1	1	21.19	0.132	21.23	0.133	21.05	0.127

NR Band 25/2												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							370500 (1 852.5 MHz)		376500 (1 882.5 MHz)		382500 (1 912.5 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.25	0.211	22.78	0.190	23.21	0.209
			QPSK		1	1	23.39	0.218	22.88	0.194	23.34	0.216
			16QAM		1	1	22.87	0.194	21.76	0.150	22.17	0.165
			64QAM		1	1	21.58	0.144	20.44	0.111	20.85	0.122
			256QAM	1	1	18.97	0.079	18.11	0.065	18.17	0.066	
			BPSK	Inner_1RB Right	1	23	22.89	0.195	22.81	0.191	23.20	0.209
			QPSK		1	23	22.97	0.198	22.89	0.195	23.34	0.216
			BPSK	Inner_Full	12	6	23.01	0.200	22.82	0.191	23.30	0.214
			QPSK		12	6	23.07	0.203	22.85	0.193	23.27	0.212
			BPSK	Outer_Full	25	0	22.02	0.159	21.88	0.154	22.33	0.171
			QPSK		25	0	22.05	0.160	21.90	0.155	22.36	0.172
			BPSK	Edge_1RB Left	1	0	22.04	0.160	21.77	0.150	22.30	0.170
			QPSK		1	0	22.08	0.161	21.88	0.154	22.36	0.172
			BPSK	Edge_Full Left	2	0	22.10	0.162	21.94	0.156	22.39	0.173
			QPSK		2	0	22.15	0.164	21.96	0.157	22.38	0.173
			BPSK	Edge_1RB Right	1	24	21.92	0.156	21.84	0.153	22.22	0.167
			QPSK		1	24	21.98	0.158	21.90	0.155	22.37	0.173
			BPSK	Edge_Full Right	2	23	22.06	0.161	21.90	0.155	22.33	0.171
		QPSK	2		23	22.05	0.160	21.93	0.156	22.32	0.171	
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.60	0.145	21.50	0.141	21.91	0.155
			16QAM		1	1	21.00	0.126	21.11	0.129	21.35	0.136

NR Band 25/2												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							371000 (1 855.0 MHz)		376500 (1 882.5 MHz)		382000 (1 910.0 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.15	0.207	22.82	0.191	23.55	0.226
			QPSK		1	1	23.22	0.210	22.90	0.195	23.29	0.213
			16QAM		1	1	22.07	0.161	21.81	0.152	22.22	0.167
			64QAM		1	1	20.81	0.121	20.50	0.112	20.92	0.124
			256QAM		1	1	18.12	0.065	18.22	0.066	18.29	0.067
			BPSK	Inner_1RB Right	1	50	22.84	0.192	22.89	0.195	23.23	0.210
			QPSK		1	50	22.90	0.195	22.91	0.195	23.29	0.213
			BPSK	Inner_Full	25	12	23.08	0.203	22.89	0.195	23.21	0.209
			QPSK		25	12	23.06	0.202	22.87	0.194	23.27	0.212
			BPSK	Outer_Full	50	0	22.13	0.163	21.94	0.156	22.28	0.169
			QPSK		50	0	22.16	0.164	21.95	0.157	22.28	0.169
			BPSK	Edge_1RB Left	1	0	22.05	0.160	21.77	0.150	22.07	0.161
			QPSK		1	0	22.14	0.164	21.88	0.154	22.15	0.164
			BPSK	Edge_Full Left	2	0	22.15	0.164	21.89	0.155	22.18	0.165
			QPSK		2	0	22.16	0.164	21.89	0.155	22.17	0.165
			BPSK	Edge_1RB Right	1	51	21.75	0.150	21.77	0.150	22.12	0.163
			QPSK		1	51	21.80	0.151	21.83	0.152	22.19	0.166
			BPSK	Edge_Full Right	2	50	21.82	0.152	21.85	0.153	22.24	0.167
		QPSK	2		50	21.90	0.155	21.92	0.156	22.27	0.169	
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.83	0.152	21.54	0.143	21.87	0.154
			16QAM		1	1	21.24	0.133	21.08	0.128	21.31	0.135

NR Band 25/2												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							371500 (1 857.5 MHz)		376500 (1 882.5 MHz)		381500 (1 907.5 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.09	0.204	22.95	0.197	23.30	0.214
			QPSK		1	1	23.19	0.208	23.02	0.200	23.33	0.215
			16QAM		1	1	22.05	0.160	21.95	0.157	22.27	0.169
			64QAM		1	1	20.81	0.121	20.63	0.116	20.91	0.123
			256QAM		1	1	18.17	0.066	18.08	0.064	18.37	0.069
			BPSK	Inner_1RB Right	1	77	22.75	0.188	22.99	0.199	23.31	0.214
			QPSK		1	77	22.81	0.191	23.01	0.200	23.34	0.216
			BPSK	Inner_Full	36	18	22.91	0.195	22.99	0.199	23.32	0.215
			QPSK		36	18	22.95	0.197	22.91	0.195	23.33	0.215
			BPSK	Outer_Full	75	0	21.93	0.156	21.87	0.154	22.35	0.172
			QPSK		75	0	21.92	0.156	21.87	0.154	22.30	0.170
			BPSK	Edge_1RB Left	1	0	22.05	0.160	21.89	0.155	22.21	0.166
			QPSK		1	0	22.21	0.166	21.98	0.158	22.29	0.169
			BPSK	Edge_Full Left	2	0	22.15	0.164	21.99	0.158	22.30	0.170
			QPSK		2	0	22.16	0.164	22.00	0.158	22.30	0.170
			BPSK	Edge_1RB Right	1	78	21.79	0.151	21.86	0.153	22.21	0.166
			QPSK		1	78	21.77	0.150	21.83	0.152	22.30	0.170
			BPSK	Edge_Full Right	2	77	21.81	0.152	21.88	0.154	22.29	0.169
			QPSK		2	77	21.85	0.153	21.92	0.156	22.32	0.171
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.87	0.154	21.68	0.147	21.97	0.157
			16QAM		1	1	21.23	0.133	21.01	0.126	21.35	0.136

NR Band 25/2												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							372000 (1 860.0 MHz)		376500 (1 882.5 MHz)		381000 (1 905.0 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	22.98	0.199	22.79	0.190	23.15	0.207
			QPSK		1	1	23.03	0.201	22.85	0.193	23.30	0.214
			16QAM		1	1	21.87	0.154	21.80	0.151	22.12	0.163
			64QAM		1	1	20.68	0.117	20.43	0.110	20.87	0.122
			256QAM		1	1	18.19	0.066	18.09	0.064	18.30	0.068
			BPSK	Inner_1RB Right	1	104	22.77	0.189	23.01	0.200	23.22	0.210
			QPSK		1	104	22.85	0.193	23.04	0.201	23.31	0.214
			BPSK	Inner_Full	50	25	22.85	0.193	22.95	0.197	23.35	0.216
			QPSK		50	25	22.91	0.195	22.86	0.193	23.32	0.215
			BPSK	Outer_Full	100	0	21.90	0.155	21.94	0.156	22.30	0.170
			QPSK		100	0	21.90	0.155	21.95	0.157	22.33	0.171
			BPSK	Edge_1RB Left	1	0	21.87	0.154	21.74	0.149	22.20	0.166
			QPSK		1	0	21.99	0.158	21.81	0.152	22.23	0.167
			BPSK	Edge_Full Left	2	0	21.98	0.158	21.82	0.152	22.23	0.167
			QPSK		2	0	21.97	0.157	21.83	0.152	22.29	0.169
			BPSK	Edge_1RB Right	1	105	21.76	0.150	21.98	0.158	22.22	0.167
			QPSK		1	105	21.85	0.153	22.02	0.159	22.29	0.169
			BPSK	Edge_Full Right	2	104	21.83	0.152	22.03	0.160	22.25	0.168
			QPSK		2	104	21.83	0.152	22.06	0.161	22.31	0.170
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.73	0.149	21.56	0.143	21.91	0.155
			16QAM		1	1	21.04	0.127	21.11	0.129	21.28	0.134

NR Band 25/2												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							372500 (1 862.5 MHz)		376500 (1 882.5 MHz)		380500 (1 902.5 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
25	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.05	0.202	22.89	0.195	<u>23.14</u>	<u>0.206</u>
			QPSK		1	1	22.98	0.199	22.75	0.188	<u>23.21</u>	<u>0.209</u>
			16QAM		1	1	21.85	0.153	21.75	0.150	<u>21.98</u>	<u>0.158</u>
			64QAM		1	1	20.55	0.114	20.55	0.114	20.99	0.126
			256QAM	1	1	18.35	0.068	18.05	0.064	18.13	0.065	
			BPSK	Inner_1RB Right	1	131	22.95	0.197	23.02	0.200	23.12	0.205
			QPSK		1	131	22.75	0.188	22.91	0.195	23.11	0.205
			BPSK	Inner_Full	64	32	22.71	0.187	22.96	0.198	23.02	0.200
			QPSK		64	32	22.71	0.187	22.99	0.199	23.16	0.207
			BPSK	Outer_Full	128	0	21.65	0.146	21.95	0.157	22.45	0.176
			QPSK		128	0	21.99	0.158	21.85	0.153	22.35	0.172
			BPSK	Edge_1RB Left	1	0	21.89	0.155	21.79	0.151	22.11	0.163
			QPSK		1	0	21.92	0.156	21.85	0.153	22.33	0.171
			BPSK	Edge_Full Left	2	0	22.02	0.159	21.83	0.152	22.03	0.160
			QPSK		2	0	21.91	0.155	21.93	0.156	22.19	0.166
			BPSK	Edge_1RB Right	1	132	21.85	0.153	21.94	0.156	22.12	0.163
			QPSK		1	132	21.75	0.150	22.01	0.159	22.19	0.166
			BPSK	Edge_Full Right	2	131	21.92	0.156	22.11	0.163	22.15	0.164
		QPSK	2		131	21.82	0.152	22.09	0.162	22.31	0.170	
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.77	0.150	21.46	0.140	<u>21.85</u>	0.153
			16QAM		1	1	21.11	0.129	21.08	0.128	<u>21.38</u>	0.137

NR Band 25/2												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							373000 (1 865.0 MHz)		376500 (1 882.5 MHz)		380000 (1 900.0 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	22.91	0.195	22.86	0.193	<u>23.16</u>	<u>0.207</u>
			QPSK		1	1	23.01	0.200	22.95	0.197	<u>23.23</u>	<u>0.210</u>
			16QAM		1	1	21.95	0.157	21.89	0.155	<u>22.21</u>	<u>0.166</u>
			64QAM		1	1	20.85	0.122	20.59	0.115	20.97	0.125
			256QAM	1	1	18.35	0.068	18.06	0.064	18.05	0.064	
			BPSK	Inner_1RB Right	1	158	22.87	0.194	22.98	0.199	23.02	0.200
			QPSK		1	158	22.95	0.197	23.01	0.200	23.11	0.205
			BPSK	Inner_Full	80	40	22.91	0.195	22.91	0.195	23.15	0.207
			QPSK		80	40	22.81	0.191	22.81	0.191	23.22	0.210
			BPSK	Outer_Full	160	0	21.80	0.151	21.92	0.156	22.23	0.167
			QPSK		160	0	21.85	0.153	21.98	0.158	22.13	0.163
			BPSK	Edge_1RB Left	1	0	21.98	0.158	21.88	0.154	22.30	0.170
			QPSK		1	0	21.92	0.156	21.85	0.153	22.25	0.168
			BPSK	Edge_Full Left	2	0	21.95	0.157	21.86	0.153	22.29	0.169
			QPSK		2	0	21.91	0.155	21.89	0.155	22.19	0.166
			BPSK	Edge_1RB Right	1	159	21.85	0.153	21.91	0.155	22.21	0.166
			QPSK		1	159	21.95	0.157	22.11	0.163	22.19	0.166
			BPSK	Edge_Full Right	2	158	21.93	0.156	22.13	0.163	22.15	0.164
		QPSK	2		158	21.93	0.156	22.05	0.160	22.21	0.166	
		CP OFDM	QPSK	Inner_1RB Left	1	1	<u>21.83</u>	<u>0.152</u>	21.68	0.147	21.82	0.152
			16QAM		1	1	<u>21.39</u>	<u>0.138</u>	21.10	0.124	21.35	0.136

NR Band 25/2												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							374000 (1 870.0 MHz)		376500 (1 882.5 MHz)		379000 (1 895.0 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
40	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	22.89	0.195	22.89	0.195	23.39	0.218
			QPSK		1	1	23.01	0.200	22.81	0.191	23.33	0.215
			16QAM		1	1	21.75	0.150	21.95	0.157	22.12	0.163
			64QAM		1	1	20.88	0.122	20.69	0.117	20.87	0.122
			256QAM		1	1	18.35	0.068	18.08	0.064	18.30	0.068
			BPSK	Inner_1RB Right	1	214	22.59	0.182	22.89	0.195	23.22	0.210
			QPSK		1	214	22.61	0.182	23.12	0.205	23.31	0.214
			BPSK	Inner_Full	108	54	22.69	0.186	23.05	0.202	23.35	0.216
			QPSK		108	54	22.82	0.191	22.95	0.197	23.32	0.215
			BPSK	Outer_Full	216	0	21.80	0.151	21.96	0.157	22.30	0.170
			QPSK		216	0	21.85	0.153	21.88	0.154	22.33	0.171
			BPSK	Edge_1RB Left	1	0	21.77	0.150	21.89	0.155	22.20	0.166
			QPSK		1	0	21.85	0.153	21.71	0.148	22.23	0.167
			BPSK	Edge_Full Left	2	0	21.87	0.154	21.92	0.156	22.23	0.167
			QPSK		2	0	21.67	0.147	21.83	0.152	22.29	0.169
			BPSK	Edge_1RB Right	1	215	21.85	0.153	21.98	0.158	22.22	0.167
			QPSK		1	215	21.71	0.148	22.02	0.159	22.29	0.169
			BPSK	Edge_Full Right	2	214	21.73	0.149	22.03	0.160	22.25	0.168
			QPSK		2	214	21.92	0.156	22.06	0.161	22.31	0.170
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.86	0.153	21.56	0.143	21.91	0.155
			16QAM		1	1	21.01	0.126	21.11	0.129	21.28	0.134

NR Band 26/5_Part 22												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							165300 (826.5 MHz)		167300 (836.5 MHz)		169300 (846.5 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.16	0.207	23.12	0.205	22.89	0.195
			QPSK		1	1	23.36	0.217	23.25	0.211	23.04	0.201
			16QAM		1	1	22.23	0.167	22.18	0.165	21.95	0.157
			64QAM		1	1	21.01	0.126	20.88	0.122	20.70	0.117
			256QAM		1	1	18.36	0.069	18.23	0.067	18.00	0.063
			BPSK	Inner_1RB Right	1	23	23.18	0.208	23.09	0.204	22.93	0.196
			QPSK		1	23	23.24	0.211	23.14	0.206	23.00	0.200
			BPSK	Inner_Full	12	6	23.33	0.215	23.27	0.212	23.12	0.205
			QPSK		12	6	23.33	0.215	23.26	0.212	23.02	0.200
			BPSK	Outer_Full	25	0	22.26	0.168	22.21	0.166	22.00	0.158
			QPSK		25	0	22.28	0.169	22.22	0.167	22.00	0.158
			BPSK	Edge_1RB Left	1	0	22.24	0.167	22.15	0.164	21.93	0.156
			QPSK		1	0	22.32	0.171	22.22	0.167	22.07	0.161
			BPSK	Edge_Full Left	2	0	22.34	0.171	22.27	0.169	22.10	0.162
			QPSK		2	0	22.33	0.171	22.26	0.168	22.07	0.161
			BPSK	Edge_1RB Right	1	24	22.17	0.165	22.09	0.162	21.91	0.155
			QPSK		1	24	22.33	0.171	22.16	0.164	21.95	0.157
			BPSK	Edge_Full Right	2	23	22.30	0.170	22.15	0.164	21.98	0.158
			QPSK		2	23	22.29	0.169	22.15	0.164	22.04	0.160
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.99	0.158	21.92	0.156	21.71	0.148
			16QAM		1	1	21.44	0.139	21.29	0.135	21.20	0.132

NR Band 26/5_Part 22												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							165800 (829.0 MHz)		167300 (836.5 MHz)		168800 (844.0 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.26	0.212	23.34	0.216	23.07	0.203
			QPSK		1	1	23.38	0.218	23.38	0.218	23.20	0.209
			16QAM		1	1	22.21	0.166	22.20	0.166	22.05	0.160
			64QAM		1	1	20.98	0.125	20.96	0.125	20.73	0.118
			256QAM		1	1	18.35	0.068	18.28	0.067	18.07	0.064
			BPSK	Inner_1RB Right	1	50	23.15	0.207	22.99	0.199	22.96	0.198
			QPSK		1	50	23.23	0.210	23.16	0.207	23.05	0.202
			BPSK	Inner_Full	25	12	23.38	0.218	23.28	0.213	23.14	0.206
			QPSK		25	12	23.40	0.219	23.27	0.212	23.14	0.206
			BPSK	Outer_Full	50	0	22.37	0.173	22.23	0.167	22.09	0.162
			QPSK		50	0	22.34	0.171	22.24	0.167	22.06	0.161
			BPSK	Edge_1RB Left	1	0	22.26	0.168	22.24	0.167	22.01	0.159
			QPSK		1	0	22.34	0.171	22.32	0.171	22.08	0.161
			BPSK	Edge_Full Left	2	0	22.35	0.172	22.32	0.171	22.10	0.162
			QPSK		2	0	22.34	0.171	22.31	0.170	22.11	0.163
			BPSK	Edge_1RB Right	1	51	22.07	0.161	22.00	0.158	21.92	0.156
			QPSK		1	51	22.14	0.164	22.10	0.162	22.02	0.159
			BPSK	Edge_Full Right	2	50	22.15	0.164	22.10	0.162	22.01	0.159
			QPSK		2	50	22.15	0.164	22.10	0.162	22.02	0.159
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.98	0.158	21.95	0.157	21.70	0.148
			16QAM		1	1	21.41	0.138	21.42	0.139	21.19	0.132

NR Band 26/5_Part 22												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							166300 (831.5 MHz)		167300 (836.5 MHz)		168300 (841.5 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.20	0.209	23.23	0.210	23.23	0.210
			QPSK		1	1	23.27	0.212	23.41	0.219	23.30	0.214
			16QAM		1	1	22.18	0.165	22.25	0.168	22.28	0.169
			64QAM		1	1	20.95	0.124	21.05	0.127	20.92	0.124
			256QAM		1	1	18.34	0.068	18.44	0.070	18.41	0.069
			BPSK	Inner_1RB Right	1	77	23.06	0.202	23.01	0.200	23.00	0.200
			QPSK		1	77	23.14	0.206	23.17	0.207	23.07	0.203
			BPSK	Inner_Full	36	18	23.28	0.213	23.30	0.214	23.23	0.210
			QPSK		36	18	23.28	0.213	23.28	0.213	23.23	0.210
			BPSK	Outer_Full	75	0	22.23	0.167	22.28	0.169	22.22	0.167
			QPSK		75	0	22.22	0.167	22.30	0.170	22.22	0.167
			BPSK	Edge_1RB Left	1	0	22.20	0.166	22.30	0.170	22.18	0.165
			QPSK		1	0	22.36	0.172	22.41	0.174	22.26	0.168
			BPSK	Edge_Full Left	2	0	22.35	0.172	22.44	0.175	22.30	0.170
			QPSK		2	0	22.30	0.170	22.40	0.174	22.30	0.170
			BPSK	Edge_1RB Right	1	78	22.09	0.162	22.03	0.160	22.04	0.160
			QPSK		1	78	22.16	0.164	22.17	0.165	22.13	0.163
			BPSK	Edge_Full Right	2	77	22.17	0.165	22.21	0.166	22.13	0.163
			QPSK		2	77	22.19	0.166	22.16	0.164	22.14	0.164
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.92	0.156	22.00	0.158	21.87	0.154
			16QAM		1	1	21.35	0.136	21.47	0.140	21.25	0.133

NR Band 26/5_Part 22												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							166800 (834.0 MHz)		167300 (836.5 MHz)		167800 (839.0 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.31	0.214	23.25	0.211	23.39	0.218
			QPSK		1	1	23.56	0.227	23.42	0.220	23.40	0.219
			16QAM		1	1	22.23	0.167	22.29	0.169	22.34	0.171
			64QAM		1	1	20.98	0.125	21.01	0.126	20.97	0.125
			256QAM		1	1	18.42	0.070	18.37	0.069	18.47	0.070
			BPSK	Inner_1RB Right	1	104	23.06	0.202	23.05	0.202	23.15	0.207
			QPSK		1	104	23.22	0.210	23.21	0.209	23.14	0.206
			BPSK	Inner_Full	50	25	23.25	0.211	23.31	0.214	23.26	0.212
			QPSK		50	25	23.25	0.211	23.32	0.215	23.25	0.211
			BPSK	Outer_Full	100	0	22.36	0.172	22.40	0.174	22.34	0.171
			QPSK		100	0	22.36	0.172	22.40	0.174	22.33	0.171
			BPSK	Edge_1RB Left	1	0	22.27	0.169	22.20	0.166	22.23	0.167
			QPSK		1	0	22.36	0.172	22.36	0.172	22.35	0.172
			BPSK	Edge_Full Left	2	0	22.38	0.173	22.37	0.173	22.39	0.173
			QPSK		2	0	22.36	0.172	22.28	0.169	22.30	0.170
			BPSK	Edge_1RB Right	1	105	22.00	0.158	22.01	0.159	22.03	0.160
			QPSK		1	105	22.16	0.164	22.09	0.162	22.09	0.162
			BPSK	Edge_Full Right	2	104	22.18	0.165	22.14	0.164	22.09	0.162
			QPSK		2	104	22.11	0.163	22.11	0.163	22.09	0.162
		CP OFDM	QPSK	Inner_1RB Left	1	1	22.02	0.159	21.95	0.157	21.94	0.156
			16QAM		1	1	21.41	0.138	21.42	0.139	21.53	0.142

NR Band 26_Part 90												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							163300 (816.5 MHz)		163800 (819.0 MHz)		164300 (821.5 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.18	0.208	23.22	0.210	23.20	0.209
			QPSK		1	1	23.33	0.215	23.32	0.215	23.36	0.217
			16QAM		1	1	22.23	0.167	22.29	0.169	22.33	0.171
			64QAM		1	1	21.00	0.126	21.01	0.126	21.03	0.127
			256QAM		1	1	18.39	0.069	18.33	0.068	18.37	0.069
			BPSK	Inner_1RB Right	1	23	23.19	0.208	23.27	0.212	23.21	0.209
			QPSK		1	23	23.28	0.213	23.35	0.216	23.33	0.215
			BPSK	Inner_Full	12	6	23.41	0.219	23.36	0.217	23.43	0.220
			QPSK		12	6	23.41	0.219	23.39	0.218	23.40	0.219
			BPSK	Outer_Full	25	0	22.38	0.173	22.33	0.171	22.35	0.172
			QPSK		25	0	22.40	0.174	22.33	0.171	22.36	0.172
			BPSK	Edge_1RB Left	1	0	22.22	0.167	22.28	0.169	22.29	0.169
			QPSK		1	0	22.30	0.170	22.35	0.172	22.36	0.172
			BPSK	Edge_Full Left	2	0	22.38	0.173	22.37	0.173	22.28	0.169
			QPSK		2	0	22.35	0.172	22.37	0.173	22.30	0.170
			BPSK	Edge_1RB Right	1	24	22.24	0.167	22.29	0.169	22.22	0.167
			QPSK		1	24	22.30	0.170	22.36	0.172	22.30	0.170
			BPSK	Edge_Full Right	2	23	22.33	0.171	22.35	0.172	22.38	0.173
		QPSK	2		23	22.33	0.171	22.36	0.172	22.36	0.172	
		CP OFDM	QPSK	Inner_1RB	1	1	21.98	0.158	21.98	0.158	21.95	0.157
			16QAM	Left	1	1	21.45	0.140	21.48	0.141	21.37	0.137
NR Band 26_Part 90												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							163800 (819.0 MHz)					
									(dB m)	(W)		
10	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	-	-	23.30	0.214	-	-
			QPSK		1	1	-	-	23.52	0.225	-	-
			16QAM		1	1	-	-	22.24	0.167	-	-
			64QAM		1	1	-	-	21.12	0.129	-	-
			256QAM		1	1	-	-	18.34	0.068	-	-
			BPSK	Inner_1RB Right	1	50	-	-	23.33	0.215	-	-
			QPSK		1	50	-	-	23.46	0.222	-	-
			BPSK	Inner_Full	25	12	-	-	23.50	0.224	-	-
			QPSK		25	12	-	-	23.39	0.218	-	-
			BPSK	Outer_Full	50	0	-	-	22.31	0.170	-	-
			QPSK		50	0	-	-	22.35	0.172	-	-
			BPSK	Edge_1RB Left	1	0	-	-	22.26	0.168	-	-
			QPSK		1	0	-	-	22.33	0.171	-	-
			BPSK	Edge_Full Left	2	0	-	-	22.33	0.171	-	-
			QPSK		2	0	-	-	22.32	0.171	-	-
			BPSK	Edge_1RB Right	1	51	-	-	22.13	0.163	-	-
			QPSK		1	51	-	-	22.27	0.169	-	-
			BPSK	Edge_Full Right	2	50	-	-	22.28	0.169	-	-
			QPSK		2	50	-	-	22.26	0.168	-	-
		CP OFDM	QPSK	Inner_1RB	1	1	-	-	21.92	0.156	-	-
			16QAM	Left	1	1	-	-	21.40	0.138	-	-

NR Band 66												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							342500 (1 712.5 MHz)		349000 (1 745.0 MHz)		355500 (1 777.5 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	22.78	0.190	<u>23.43</u>	<u>0.220</u>	23.09	0.204
			QPSK		1	1	22.83	0.192	<u>23.48</u>	<u>0.223</u>	23.20	0.209
			16QAM		1	1	21.82	0.152	<u>22.28</u>	<u>0.169</u>	22.05	0.160
			64QAM		1	1	20.50	0.112	20.93	0.124	20.76	0.119
			256QAM	1	1	18.53	0.071	18.50	0.071	18.12	0.065	
			BPSK	Inner_1RB Right	1	23	23.11	0.205	23.13	0.206	23.12	0.205
			QPSK		1	23	23.17	0.207	23.19	0.208	23.20	0.209
			BPSK	Inner_Full	12	6	23.35	0.216	23.33	0.215	23.17	0.207
			QPSK		12	6	23.33	0.215	23.30	0.214	23.19	0.208
			BPSK	Outer_Full	25	0	22.40	0.174	22.58	0.181	22.18	0.165
			QPSK		25	0	22.41	0.174	22.58	0.181	22.19	0.166
			BPSK	Edge_1RB Left	1	0	22.19	0.166	22.45	0.176	22.13	0.163
			QPSK		1	0	22.26	0.168	22.53	0.179	22.20	0.166
			BPSK	Edge_Full Left	2	0	22.25	0.168	22.52	0.179	22.22	0.167
			QPSK		2	0	22.25	0.168	22.53	0.179	22.22	0.167
			BPSK	Edge_1RB Right	1	24	22.32	0.171	22.40	0.174	22.13	0.163
			QPSK		1	24	22.39	0.173	22.48	0.177	22.18	0.165
			BPSK	Edge_Full Right	2	23	22.40	0.174	22.52	0.179	22.24	0.167
		QPSK	2		23	22.42	0.175	22.53	0.179	22.26	0.168	
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.72	0.149	<u>21.99</u>	<u>0.158</u>	21.82	0.152
			16QAM		1	1	21.10	0.129	<u>21.42</u>	<u>0.139</u>	21.23	0.133

NR Band 66												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							343000 (1 715.0 MHz)		349000 (1 745.0 MHz)		355000 (1 775.0 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	22.78	0.190	<u>23.61</u>	<u>0.230</u>	23.10	0.204
			QPSK		1	1	22.83	0.192	<u>23.66</u>	<u>0.232</u>	23.24	0.211
			16QAM		1	1	21.82	0.152	21.82	0.152	<u>22.10</u>	<u>0.162</u>
			64QAM		1	1	20.51	0.112	21.32	0.136	20.77	0.119
			256QAM	1	1	18.41	0.069	18.58	0.072	18.10	0.065	
			BPSK	Inner_1RB Right	1	50	23.08	0.203	23.29	0.213	23.11	0.205
			QPSK		1	50	23.15	0.207	23.36	0.217	23.23	0.210
			BPSK	Inner_Full	25	12	22.91	0.195	23.55	0.226	23.19	0.208
			QPSK		25	12	22.89	0.195	23.57	0.228	23.19	0.208
			BPSK	Outer_Full	50	0	22.15	0.164	22.36	0.172	22.20	0.166
			QPSK		50	0	22.31	0.170	22.63	0.183	22.20	0.166
			BPSK	Edge_1RB Left	1	0	21.95	0.157	22.53	0.179	22.10	0.162
			QPSK		1	0	22.03	0.160	22.62	0.183	22.16	0.164
			BPSK	Edge_Full Left	2	0	22.01	0.159	22.66	0.185	22.16	0.164
			QPSK		2	0	22.03	0.160	22.67	0.185	22.17	0.165
			BPSK	Edge_1RB Right	1	51	22.17	0.165	22.30	0.170	22.10	0.162
			QPSK		1	51	22.28	0.169	22.39	0.173	22.14	0.164
			BPSK	Edge_Full Right	2	50	22.30	0.170	22.39	0.173	22.14	0.164
		QPSK	2		50	22.32	0.171	22.40	0.174	22.16	0.164	
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.46	0.140	<u>21.90</u>	<u>0.155</u>	21.85	0.153
			16QAM		1	1	20.85	0.122	<u>21.29</u>	<u>0.135</u>	21.25	0.133

NR Band 66												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							343500 (1 717.5 MHz)		349000 (1 745.0 MHz)		354500 (1 772.5 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.29	0.213	23.71	0.235	23.10	0.204
			QPSK		1	1	23.33	0.215	23.76	0.238	23.23	0.210
			16QAM		1	1	22.35	0.172	22.67	0.185	22.06	0.161
			64QAM		1	1	21.07	0.128	21.40	0.138	20.83	0.121
			256QAM	1	1	18.67	0.074	18.72	0.074	18.09	0.064	
			BPSK	Inner_1RB Right	1	77	23.56	0.227	23.32	0.215	23.22	0.210
			QPSK		1	77	23.64	0.231	23.39	0.218	23.16	0.207
			BPSK	Inner_Full	36	18	23.15	0.207	23.59	0.229	23.12	0.205
			QPSK		36	18	22.97	0.198	23.55	0.226	23.16	0.207
			BPSK	Outer_Full	75	0	22.14	0.164	22.58	0.181	22.10	0.162
			QPSK		75	0	22.53	0.179	22.56	0.180	22.11	0.163
			BPSK	Edge_1RB Left	1	0	22.19	0.166	22.70	0.186	22.14	0.164
			QPSK		1	0	22.27	0.169	22.76	0.189	22.15	0.164
			BPSK	Edge_Full Left	2	0	22.24	0.167	22.73	0.187	22.17	0.165
			QPSK		2	0	22.26	0.168	22.76	0.189	22.20	0.166
			BPSK	Edge_1RB Right	1	78	22.58	0.181	22.27	0.169	22.09	0.162
			QPSK		1	78	22.66	0.185	22.37	0.173	22.13	0.163
			BPSK	Edge_Full Right	2	77	22.70	0.186	22.36	0.172	22.14	0.164
		QPSK	2		77	22.73	0.187	22.37	0.173	22.17	0.165	
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.77	0.150	22.37	0.173	21.81	0.152
			16QAM		1	1	21.16	0.131	21.81	0.152	21.20	0.132

NR Band 66												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							344000 (1 720.0 MHz)		349000 (1 745.0 MHz)		354000 (1 770.0 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.51	0.224	23.66	0.232	23.18	0.208
			QPSK		1	1	23.47	0.222	23.74	0.237	23.19	0.208
			16QAM		1	1	22.48	0.177	22.68	0.185	22.14	0.164
			64QAM		1	1	21.18	0.131	21.39	0.138	20.82	0.121
			256QAM	1	1	18.38	0.069	18.67	0.074	18.07	0.064	
			BPSK	Inner_1RB Right	1	104	23.17	0.207	23.20	0.209	22.95	0.197
			QPSK		1	104	23.26	0.212	23.27	0.212	23.16	0.207
			BPSK	Inner_Full	50	25	23.36	0.217	23.53	0.225	23.11	0.205
			QPSK		50	25	23.39	0.218	23.45	0.221	23.11	0.205
			BPSK	Outer_Full	100	0	22.72	0.187	22.60	0.182	22.12	0.163
			QPSK		100	0	22.79	0.190	22.58	0.181	22.10	0.162
			BPSK	Edge_1RB Left	1	0	22.67	0.185	22.70	0.186	22.09	0.162
			QPSK		1	0	22.66	0.185	22.77	0.189	22.14	0.164
			BPSK	Edge_Full Left	2	0	22.64	0.184	22.73	0.187	22.14	0.164
			QPSK		2	0	22.65	0.184	22.76	0.189	22.14	0.164
			BPSK	Edge_1RB Right	1	105	22.47	0.177	22.19	0.166	21.89	0.155
			QPSK		1	105	22.55	0.180	22.27	0.169	21.99	0.158
			BPSK	Edge_Full Right	2	104	22.51	0.178	22.27	0.169	21.96	0.157
		QPSK	2		104	22.55	0.180	22.22	0.167	22.04	0.160	
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.88	0.154	22.35	0.172	21.82	0.152
			16QAM		1	1	21.28	0.134	21.80	0.151	21.17	0.131

NR Band 66												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							344500 (1 722.5 MHz)		349000 (1 745.0 MHz)		353500 (1 767.5 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
25	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.42	0.220	23.72	0.236	23.11	0.205
			QPSK		1	1	23.47	0.222	23.63	0.231	23.36	0.217
			16QAM		1	1	22.37	0.173	22.72	0.187	22.29	0.169
			64QAM		1	1	21.16	0.131	21.46	0.140	20.72	0.118
			256QAM		1	1	18.25	0.067	18.71	0.074	18.03	0.064
			BPSK	Inner_1RB Right	1	131	22.99	0.199	23.31	0.214	22.97	0.198
			QPSK		1	131	23.25	0.211	23.13	0.206	23.07	0.203
			BPSK	Inner_Full	64	32	23.23	0.210	23.44	0.221	23.17	0.207
			QPSK		64	32	23.56	0.227	23.45	0.221	23.08	0.203
			BPSK	Outer_Full	128	0	22.92	0.196	22.66	0.185	22.32	0.171
			QPSK		128	0	22.75	0.188	22.64	0.184	21.92	0.156
			BPSK	Edge_1RB Left	1	0	22.85	0.193	22.75	0.188	22.06	0.161
			QPSK		1	0	22.83	0.192	22.76	0.189	22.25	0.168
			BPSK	Edge_Full Left	2	0	22.80	0.191	22.92	0.196	22.32	0.171
			QPSK		2	0	22.56	0.180	22.74	0.188	22.08	0.161
			BPSK	Edge_1RB Right	1	132	22.52	0.179	22.02	0.159	21.99	0.158
			QPSK		1	132	22.46	0.176	22.41	0.174	22.01	0.159
			BPSK	Edge_Full Right	2	131	22.42	0.175	22.18	0.165	21.84	0.153
			QPSK		2	131	22.40	0.174	22.11	0.163	22.02	0.159
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.81	0.152	22.18	0.165	21.88	0.154
			16QAM		1	1	21.23	0.133	21.38	0.137	21.36	0.137

NR Band 66												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							345000 (1 725.0 MHz)		349000 (1 745.0 MHz)		353000 (1 765.0 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.53	0.225	23.43	0.220	23.08	0.203
			QPSK		1	1	23.58	0.228	23.47	0.222	23.05	0.202
			16QAM		1	1	22.58	0.181	22.78	0.190	22.12	0.163
			64QAM		1	1	21.16	0.131	21.48	0.141	20.81	0.121
			256QAM		1	1	18.35	0.068	18.94	0.078	18.41	0.069
			BPSK	Inner_1RB Right	1	158	23.11	0.205	23.50	0.224	22.37	0.173
			QPSK		1	158	22.49	0.177	23.55	0.226	22.42	0.175
			BPSK	Inner_Full	80	40	22.89	0.195	23.70	0.234	22.87	0.194
			QPSK		80	40	22.83	0.192	23.23	0.210	22.85	0.193
			BPSK	Outer_Full	160	0	22.30	0.170	22.13	0.163	22.06	0.161
			QPSK		160	0	22.29	0.169	22.35	0.172	22.26	0.168
			BPSK	Edge_1RB Left	1	0	22.09	0.162	22.29	0.169	22.24	0.167
			QPSK		1	0	22.18	0.165	22.35	0.172	22.32	0.171
			BPSK	Edge_Full Left	2	0	22.15	0.164	22.30	0.170	22.33	0.171
			QPSK		2	0	22.16	0.164	22.30	0.170	22.32	0.171
			BPSK	Edge_1RB Right	1	159	22.32	0.171	21.16	0.131	22.23	0.167
			QPSK		1	159	22.38	0.173	21.26	0.134	22.28	0.169
			BPSK	Edge_Full Right	2	158	22.37	0.173	21.20	0.132	22.28	0.169
			QPSK		2	158	22.40	0.174	21.24	0.133	22.28	0.169
		CP OFDM	QPSK	Inner_1RB Left	1	1	22.03	0.160	22.17	0.165	22.01	0.159
			16QAM		1	1	21.16	0.131	21.57	0.144	21.38	0.137

NR Band 66												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							346000 (1 730.0 MHz)		349000 (1 745.0 MHz)		352000 (1 760.0 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
40	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.45	0.221	23.84	0.242	23.36	0.217
			QPSK		1	1	23.41	0.219	23.79	0.239	23.40	0.219
			16QAM		1	1	22.42	0.175	22.68	0.185	22.29	0.169
			64QAM		1	1	21.08	0.128	21.51	0.142	21.04	0.127
			256QAM		1	1	18.35	0.068	18.95	0.079	18.51	0.071
			BPSK	Inner_1RB Right	1	214	23.12	0.205	23.05	0.202	22.85	0.193
			QPSK		1	214	23.11	0.205	23.12	0.205	22.87	0.194
			BPSK	Inner_Full	108	54	23.05	0.202	23.26	0.212	23.01	0.200
			QPSK		108	54	22.76	0.189	23.64	0.231	22.30	0.170
			BPSK	Outer_Full	216	0	22.15	0.164	22.32	0.171	22.26	0.168
			QPSK		216	0	22.17	0.165	22.61	0.182	21.94	0.156
			BPSK	Edge_1RB Left	1	0	22.25	0.168	22.60	0.182	22.27	0.169
			QPSK		1	0	22.42	0.175	22.67	0.185	22.45	0.176
			BPSK	Edge_Full Left	2	0	22.33	0.171	22.63	0.183	22.36	0.172
			QPSK		2	0	22.56	0.180	22.70	0.186	22.43	0.175
			BPSK	Edge_1RB Right	1	215	22.05	0.160	21.56	0.143	21.17	0.131
			QPSK		1	215	22.14	0.164	21.65	0.146	21.24	0.133
			BPSK	Edge_Full Right	2	214	22.12	0.163	21.58	0.144	21.22	0.132
			QPSK		2	214	22.14	0.164	21.60	0.145	21.24	0.133
		CP OFDM	QPSK	Inner_1RB Left	1	1	22.35	0.172	22.37	0.173	22.22	0.167
			16QAM		1	1	21.56	0.143	21.83	0.152	21.52	0.142

ENDC

5A-n2A												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							371000 (1855.0 MHz)		376000 (1 880.0 MHz)		381000 (1 905.0 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	15	DFT-S OFDM	BPSK	Inner_1RB	1	1	23.41	0.219	23.09	0.204	23.21	0.209
			QPSK	Left	1	1	23.23	0.210	23.09	0.204	23.20	0.209
			BPSK	Inner_1RB	1	77	23.15	0.207	23.30	0.214	22.51	0.178
			QPSK	Right	1	77	23.28	0.213	23.16	0.207	22.16	0.164
2A-n5A												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							166800 (834.0 MHz)		167300 (836.5 MHz)		167800 (839.0 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	15	DFT-S OFDM	BPSK	Inner_1RB	1	1	23.25	0.211	23.05	0.202	23.20	0.209
			QPSK	Left	1	1	23.17	0.207	23.05	0.202	23.07	0.203
			BPSK	Inner_1RB	1	50	23.22	0.210	23.03	0.201	23.07	0.203
			QPSK	Right	1	50	23.22	0.210	23.09	0.204	23.03	0.201
7A-n5A												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							166800 (834.0 MHz)		167300 (836.5 MHz)		167800 (839.0 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	15	DFT-S OFDM	BPSK	Inner_1RB	1	1	23.38	0.218	23.39	0.218	23.38	0.218
			QPSK	Left	1	1	23.13	0.206	23.25	0.211	23.21	0.209
			BPSK	Inner_1RB	1	50	23.43	0.220	23.19	0.208	23.27	0.212
			QPSK	Right	1	50	23.39	0.218	23.11	0.205	23.10	0.204
66A-n5A												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							166800 (834.0 MHz)		167300 (836.5 MHz)		167800 (839.0 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	15	DFT-S OFDM	BPSK	Inner_1RB	1	1	23.31	0.214	23.37	0.217	23.29	0.213
			QPSK	Left	1	1	23.24	0.211	23.31	0.214	23.22	0.210
			BPSK	Inner_1RB	1	50	23.26	0.212	23.22	0.210	23.12	0.205
			QPSK	Right	1	50	23.29	0.213	23.21	0.209	23.00	0.200
5A-n66A												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							346000 (1 730.0 MHz)		349000 (1 745.0 MHz)		352000 (1 760.0 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
40	15	DFT-S OFDM	BPSK	Inner_1RB	1	1	23.06	0.202	22.92	0.196	23.05	0.202
			QPSK	Left	1	1	23.07	0.203	22.80	0.191	23.04	0.201
			BPSK	Inner_1RB Right	1	214	22.89	0.195	22.85	0.193	22.83	0.192
			QPSK		1	214	23.01	0.200	22.87	0.194	22.95	0.197
			QPSK		1	214	22.84	0.192	22.79	0.190	22.56	0.180

Note ;

The ENDC combination were compared at the bandwidth of the worst output of the SA mode.

4. Occupied Bandwidth

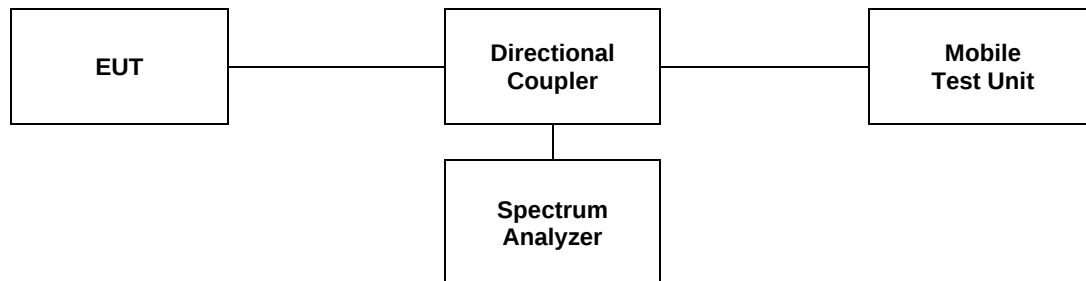
4.1. Limit

CFR 47, Section FCC §2.1049.

4.2. Test Procedure

The test follows section 5.4.4 of ANSI C63.26-2015.

- 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).
- 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 $\geq 3 \times \text{RBW}$.
- 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.
- Set the detection mode to peak, and the trace mode to max-hold.
- 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.
- 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).



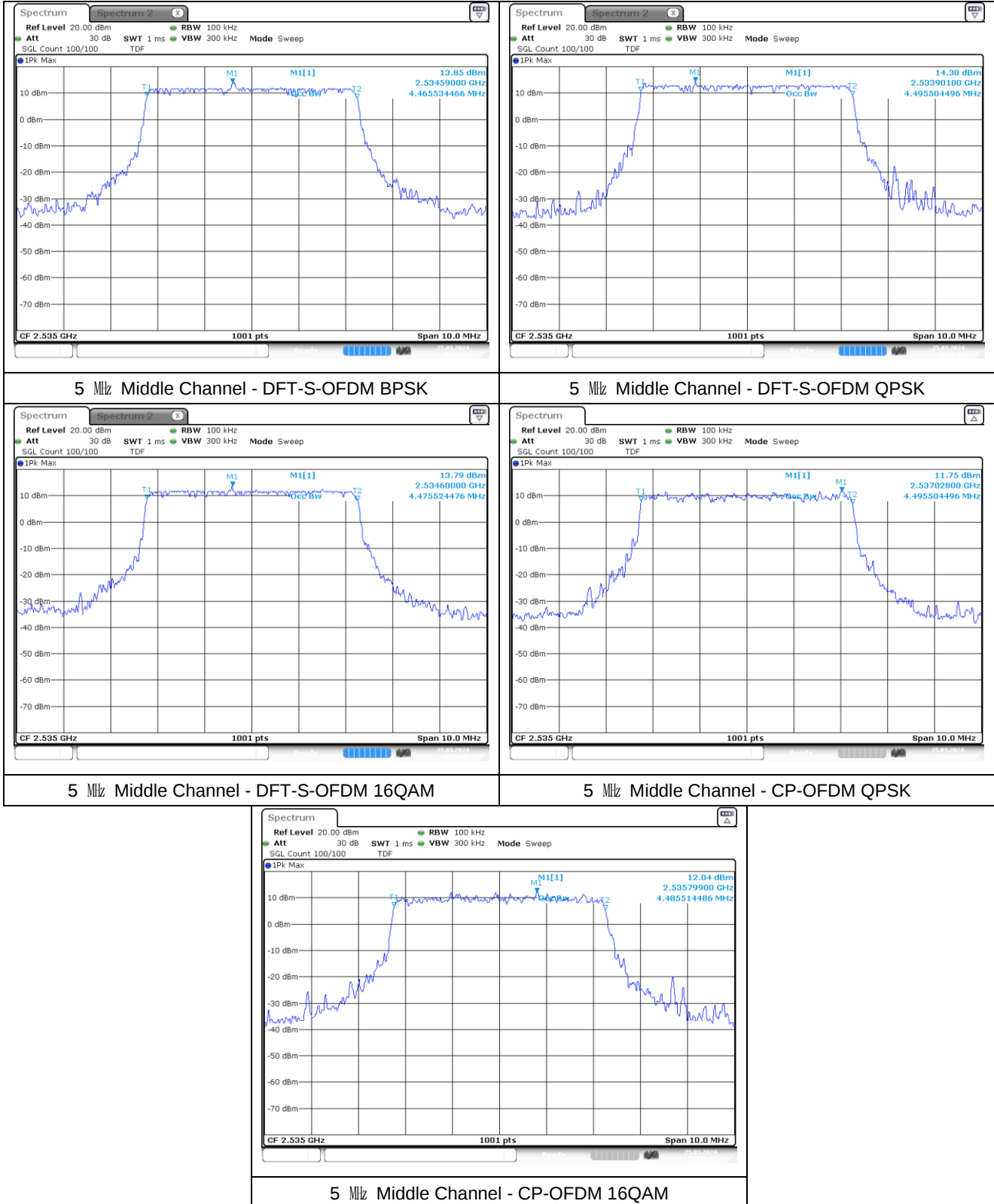
4.3 Test Results

Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 % R.H.

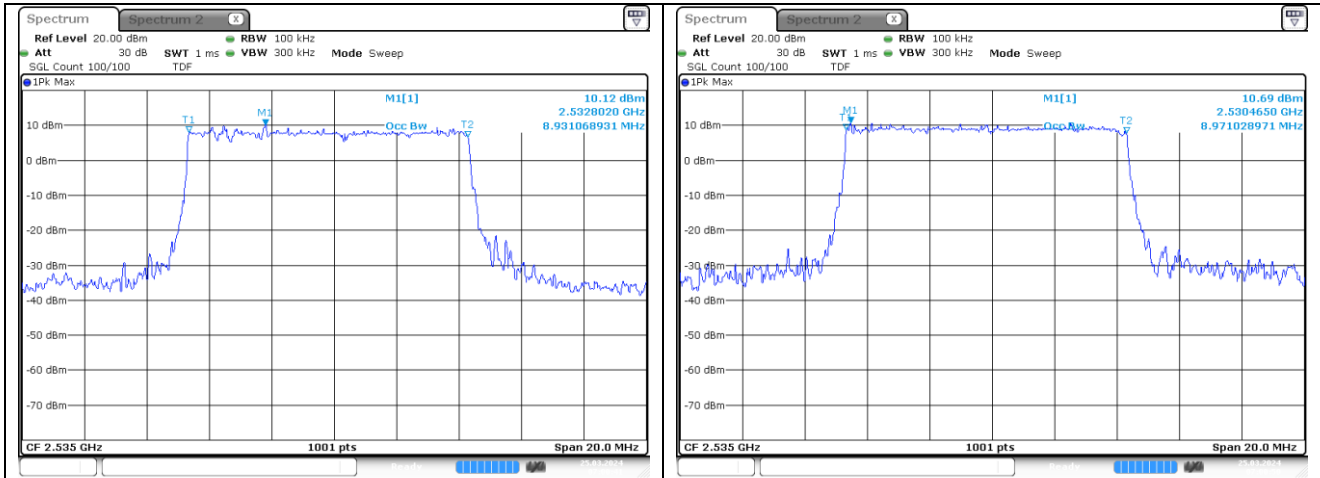
Band	SCS (kHz)	BW (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)				
				DFT-S-OFDM BPSK	DFT-S-OFDM QPSK	DFT-S-OFDM 16QAM	CP-OFDM QPSK	CP-OFDM 16QAM
7	15	5	2 535.0	4.466	4.496	4.476	4.496	4.486
		10		8.931	8.971	8.931	9.291	9.271
		15		13.487	13.457	13.516	14.146	14.146
		20		17.942	17.902	17.942	18.941	18.941
Band	SCS (kHz)	BW (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)				
				DFT-S-OFDM BPSK	DFT-S-OFDM QPSK	DFT-S-OFDM 16QAM	CP-OFDM QPSK	CP-OFDM 16QAM
25/2	15	5	1 882.5	4.486	4.466	4.476	4.496	4.505
		10		8.911	8.931	8.971	9.271	9.271
		15		13.546	13.516	13.487	14.176	14.146
		20		17.902	17.942	17.942	18.941	18.981
		25		22.877	22.927	22.927	23.826	23.826
		30		28.651	28.591	28.591	28.651	28.591
		40		38.601	38.761	38.681	38.521	38.601
Band	SCS (kHz)	BW (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)				
				DFT-S-OFDM BPSK	DFT-S-OFDM QPSK	DFT-S-OFDM 16QAM	CP-OFDM QPSK	CP-OFDM 16QAM
26/5 Part 22	15	5	836.5	4.466	4.505	4.476	4.496	4.496
		10		8.951	8.931	8.951	9.271	9.271
		15		13.546	13.487	13.546	14.176	14.146
		20		17.982	17.942	17.942	18.941	18.941
Band	SCS (kHz)	BW (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)				
				DFT-S-OFDM BPSK	DFT-S-OFDM QPSK	DFT-S-OFDM 16QAM	CP-OFDM QPSK	CP-OFDM 16QAM
26 Part 90	15	5	819.0	4.476	4.496	4.476	4.496	4.496
		10		8.951	8.951	8.911	9.271	9.271
Band	SCS (kHz)	BW (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)				
				DFT-S-OFDM BPSK	DFT-S-OFDM QPSK	DFT-S-OFDM 16QAM	CP-OFDM QPSK	CP-OFDM 16QAM
66	15	5	1 745.0	4.476	4.466	4.486	4.505	4.466
		10		8.911	8.911	8.911	9.291	9.271
		15		13.487	13.487	13.516	14.086	14.146
		20		17.902	17.862	17.862	18.901	18.901
		25		22.827	22.877	22.927	23.776	23.726
		30		28.472	28.531	28.531	28.472	28.591
		40		38.521	38.601	38.521	38.521	38.601

- Test plots

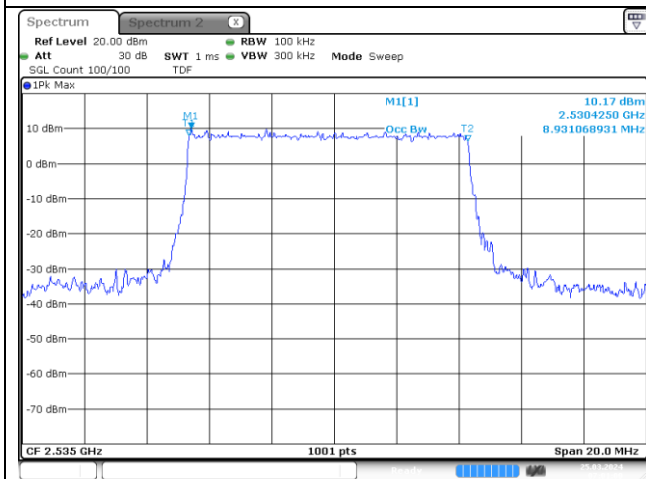
NR band 7



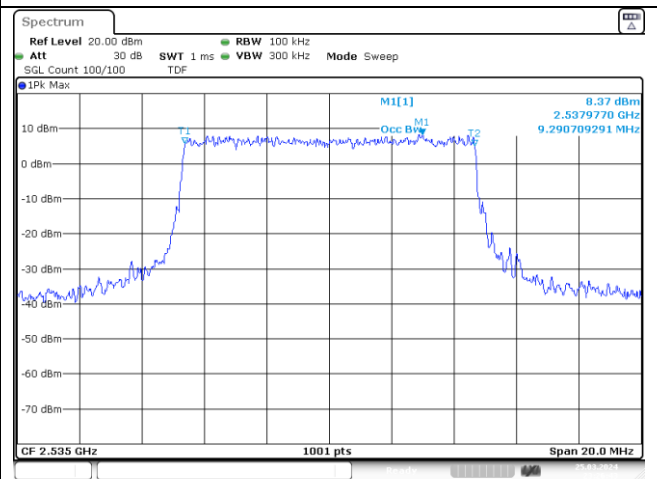
NR band 7



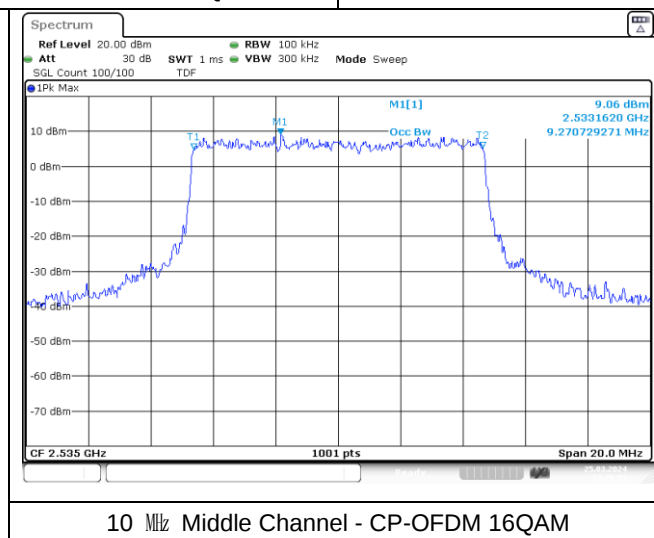
10 MHz Middle Channel - DFT-S-OFDM BPSK



10 MHz Middle Channel - DFT-S-OFDM QPSK

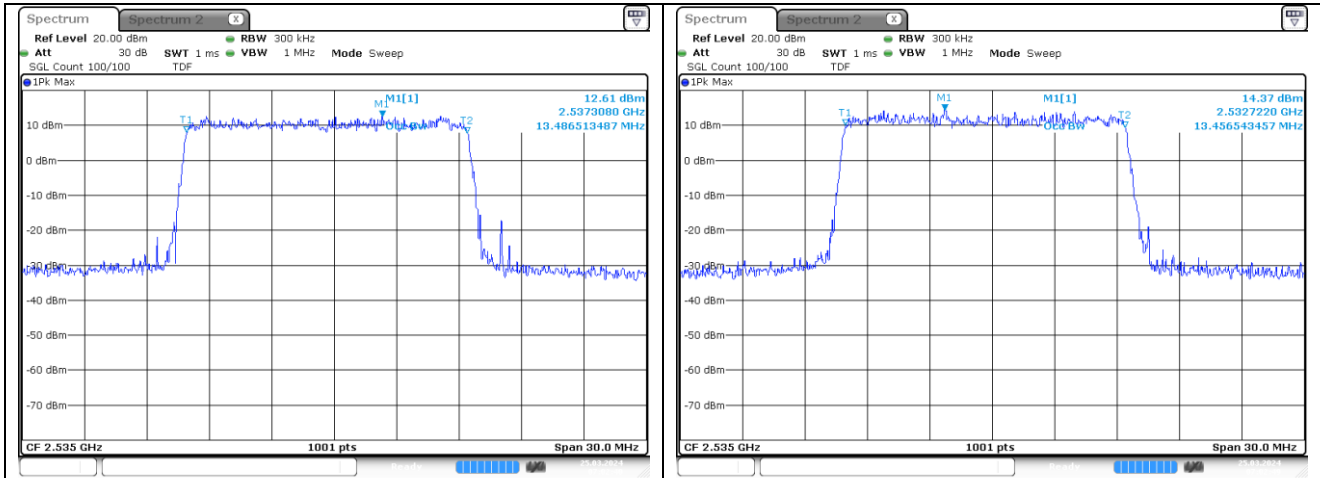


10 MHz Middle Channel - DFT-S-OFDM 16QAM

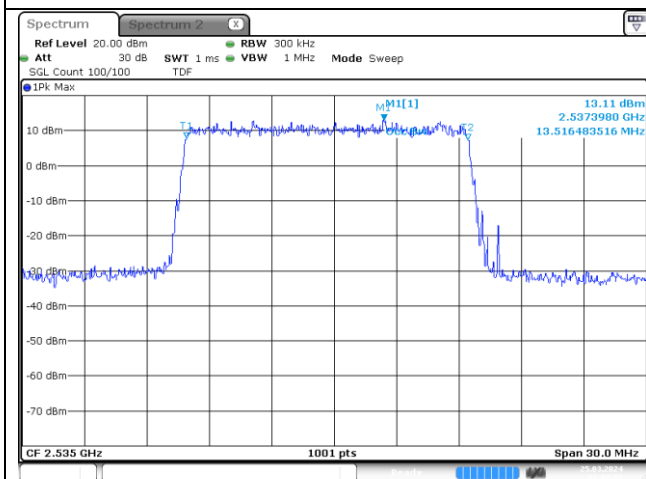


10 MHz Middle Channel - CP-OFDM QPSK

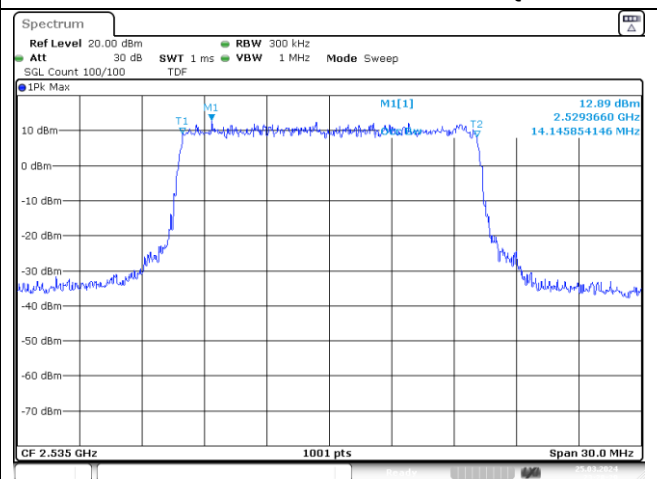
NR band 7



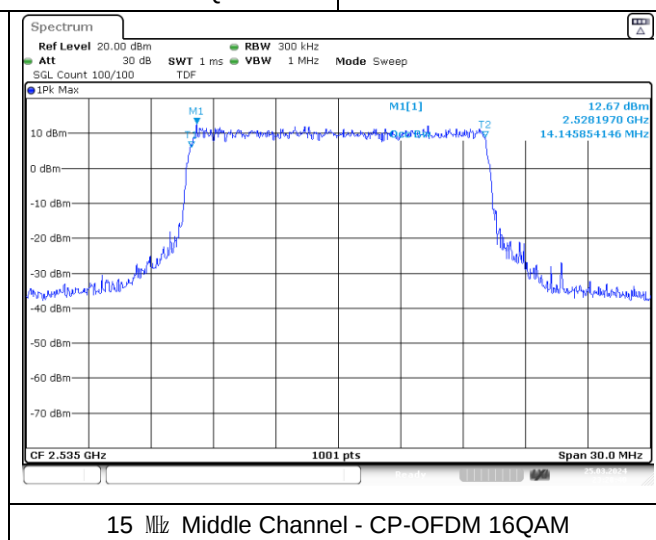
15 MHz Middle Channel - DFT-S-OFDM BPSK



15 MHz Middle Channel - DFT-S-OFDM QPSK

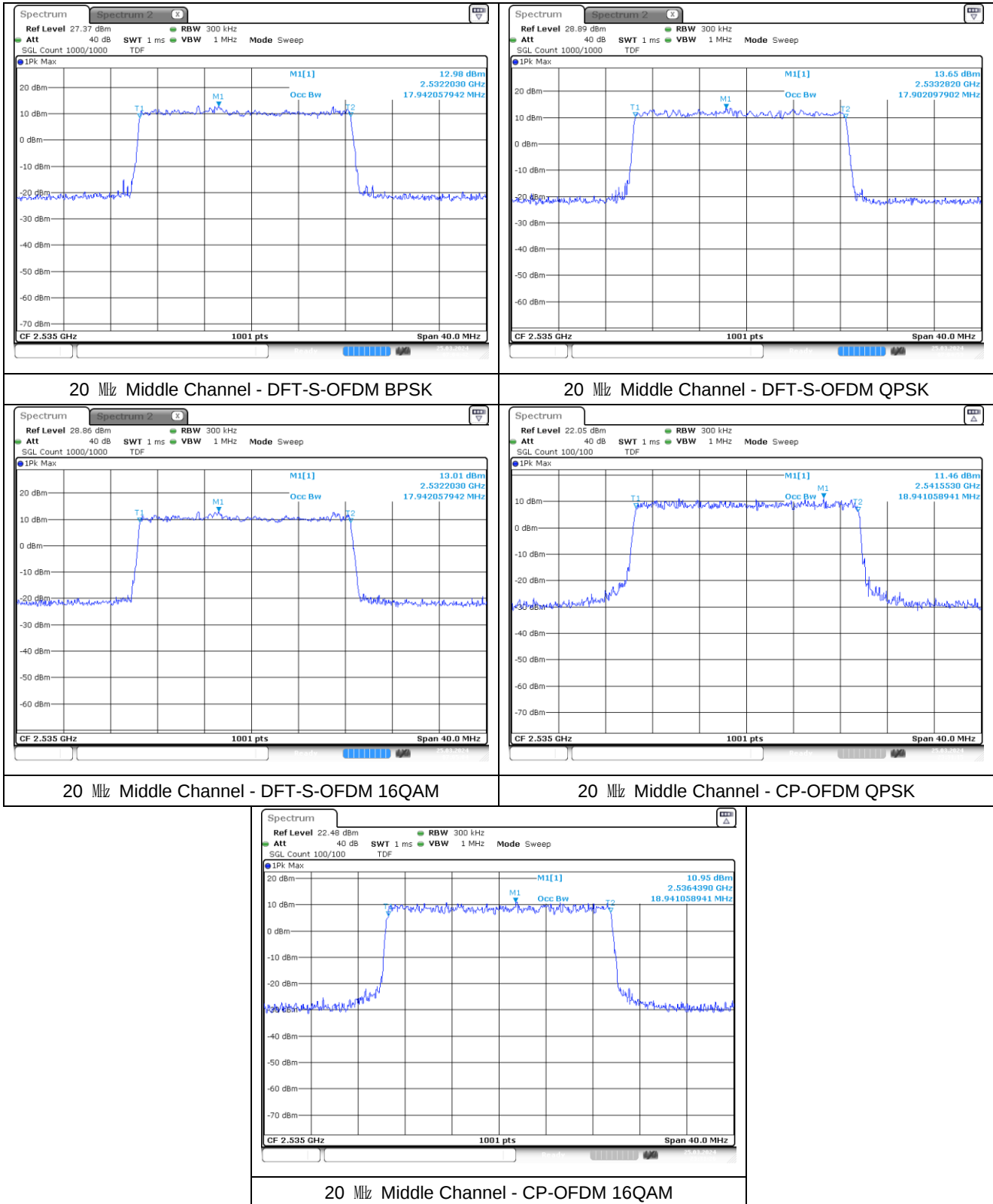


15 MHz Middle Channel - DFT-S-OFDM 16QAM

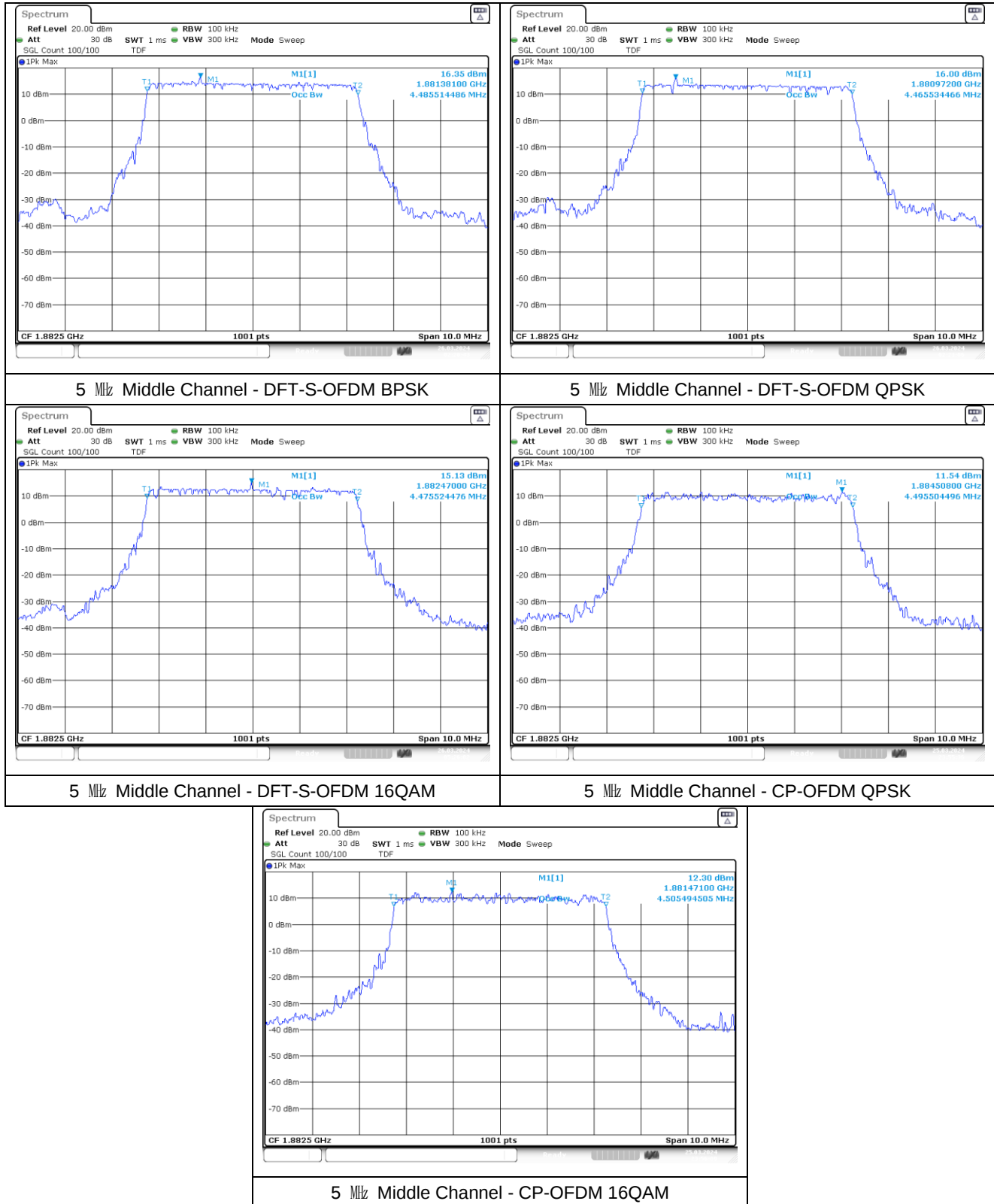


15 MHz Middle Channel - CP-OFDM QPSK

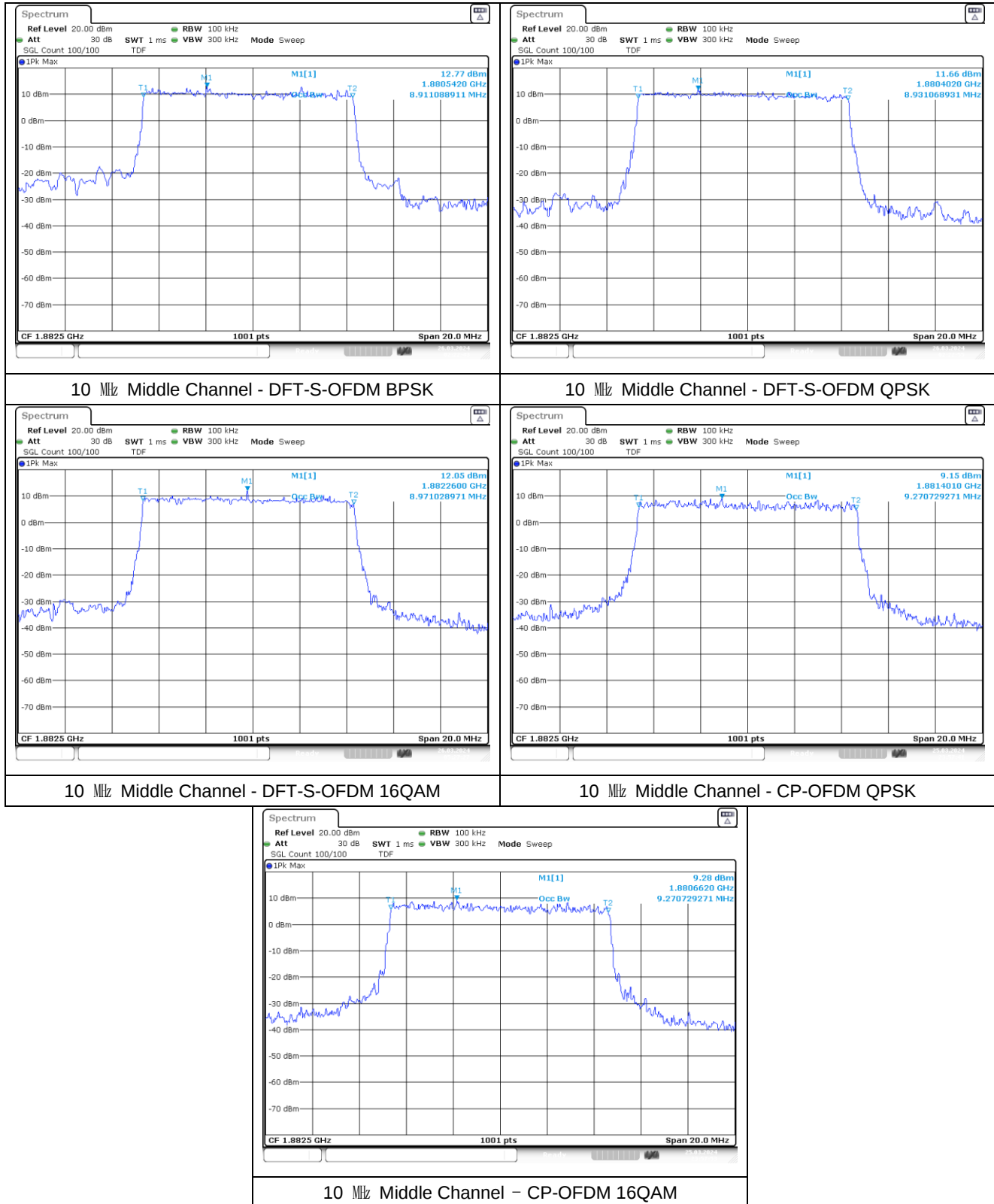
NR band 7



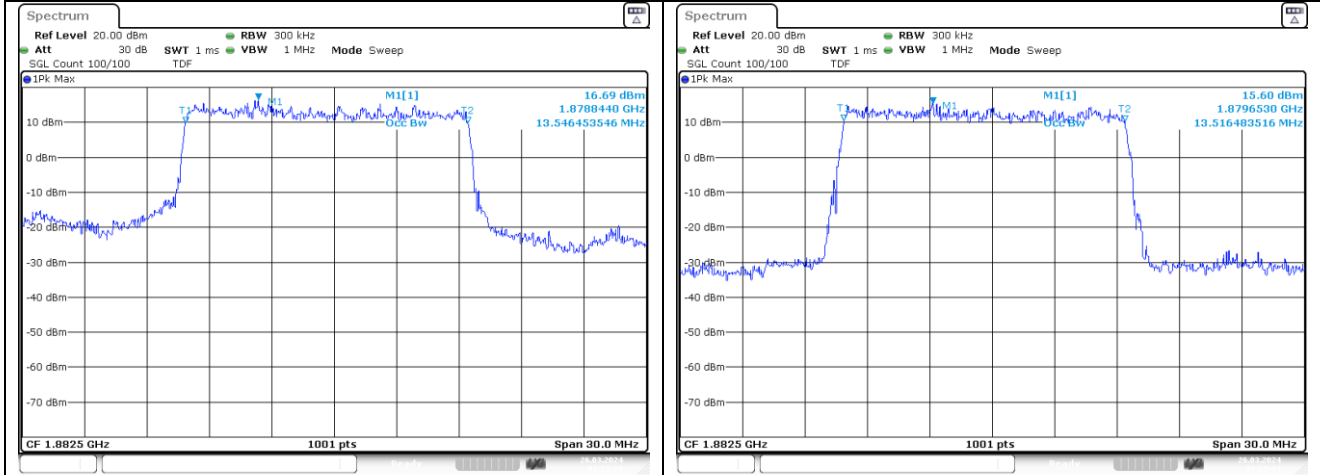
NR band 25/2



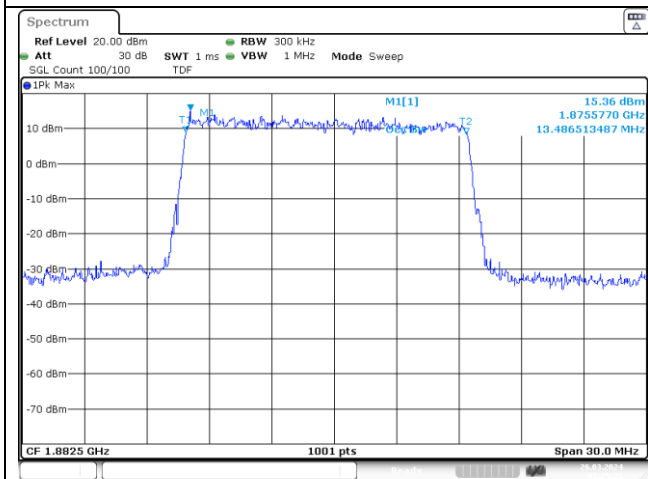
NR band 25/2



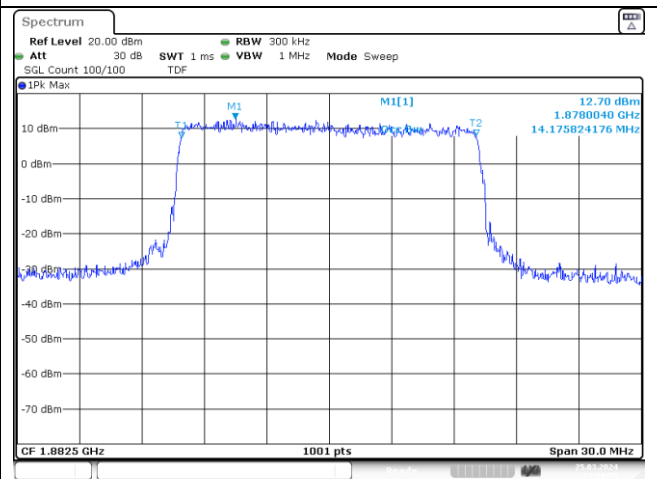
NR band 25/2



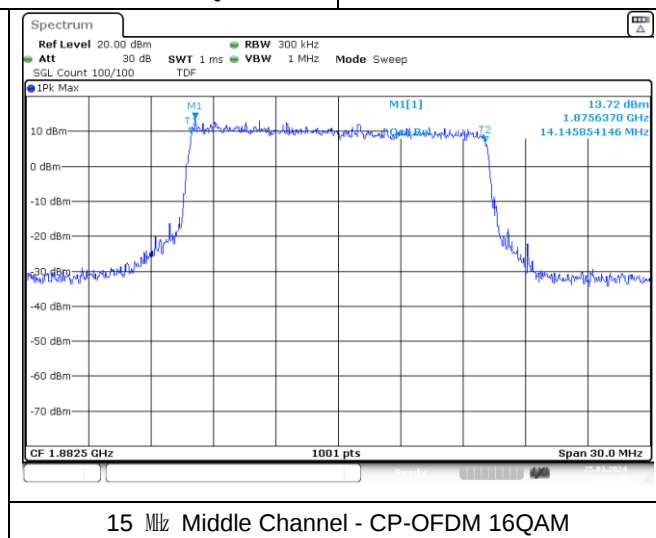
15 MHz Middle Channel - DFT-S-OFDM BPSK



15 MHz Middle Channel - DFT-S-OFDM QPSK

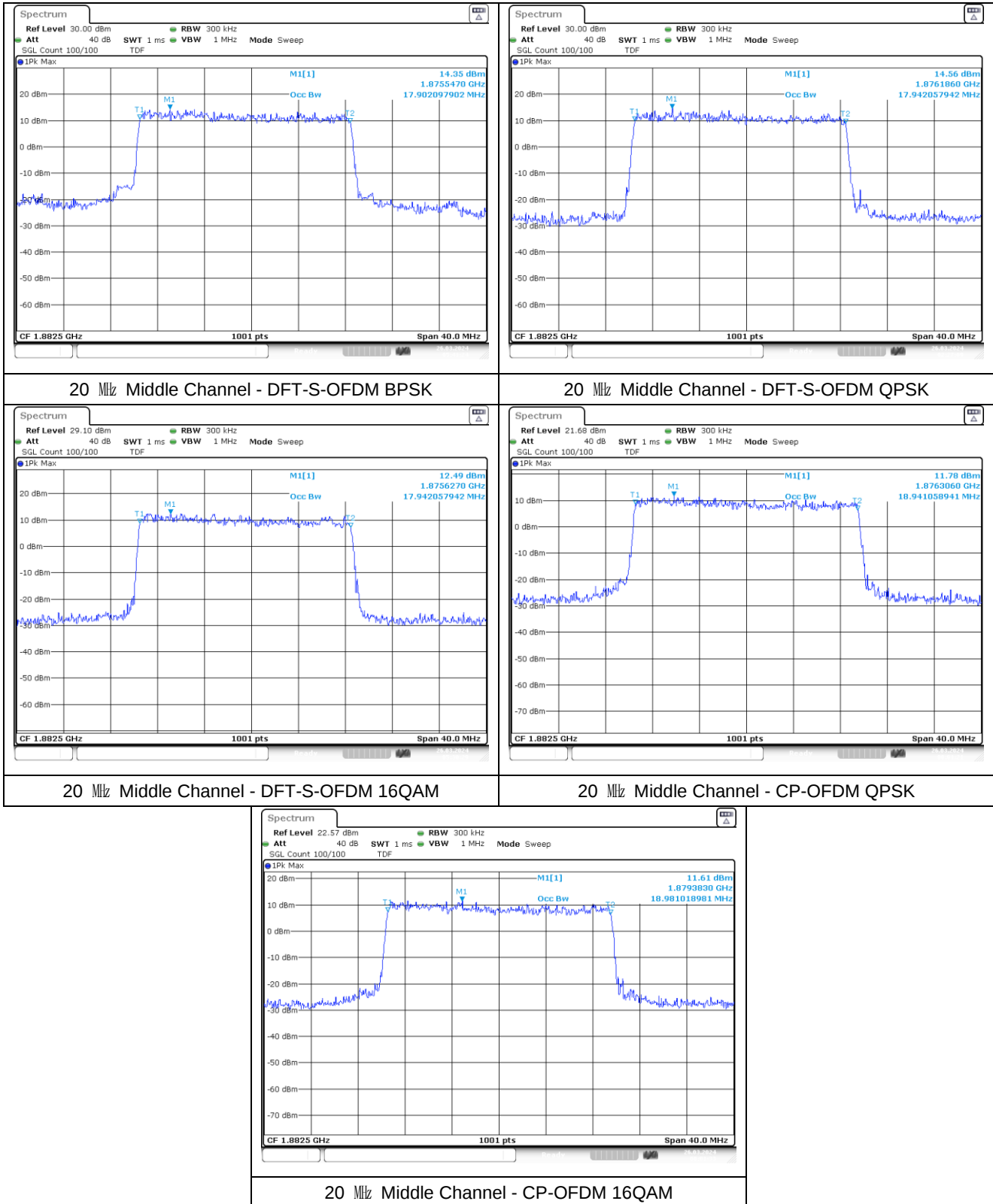


15 MHz Middle Channel - DFT-S-OFDM 16QAM

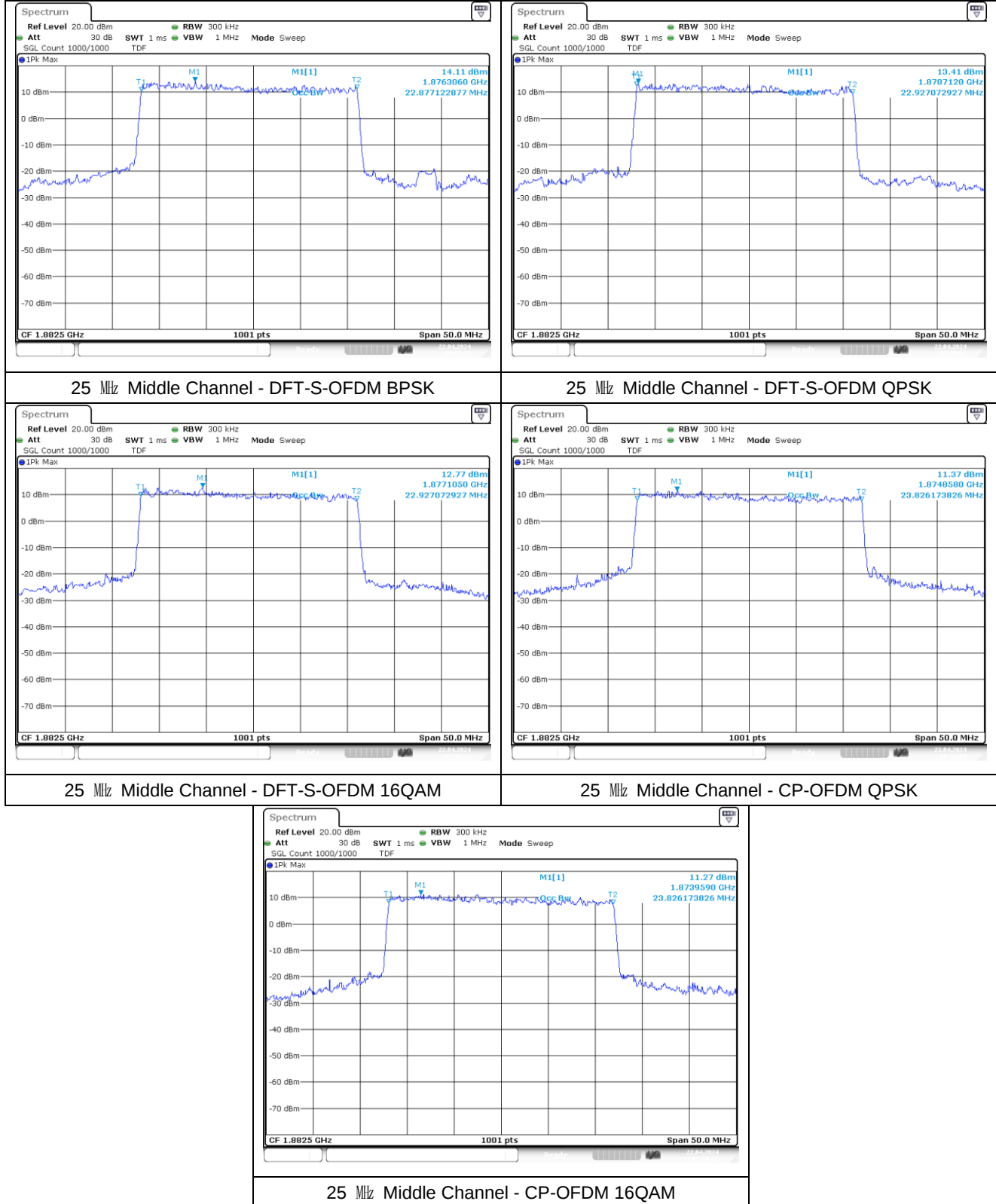


15 MHz Middle Channel - CP-OFDM QPSK

NR band 25/2



NR band 25/2



NR band 25/2

