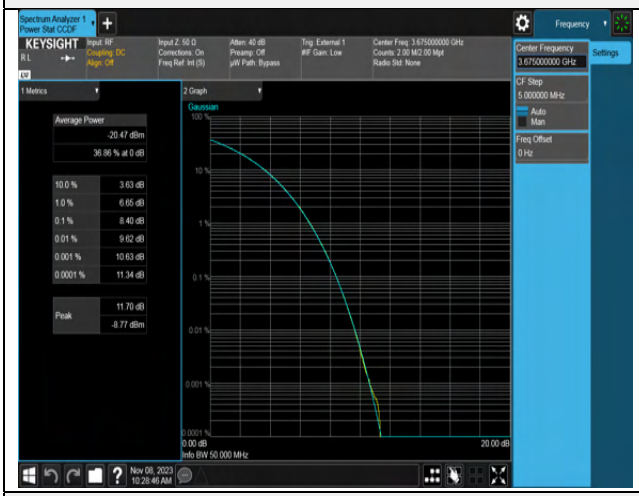
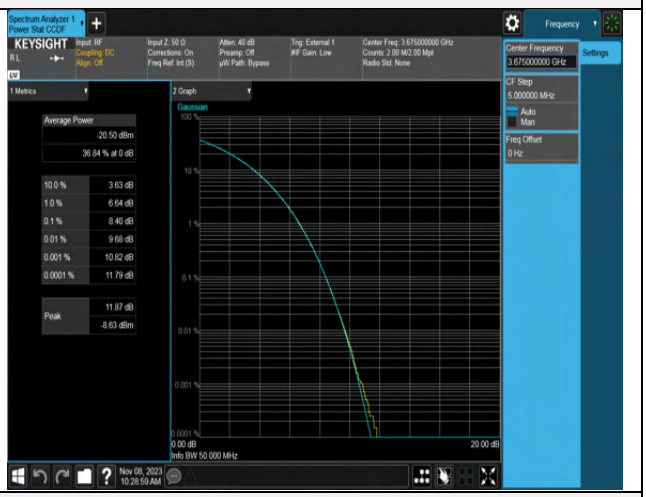
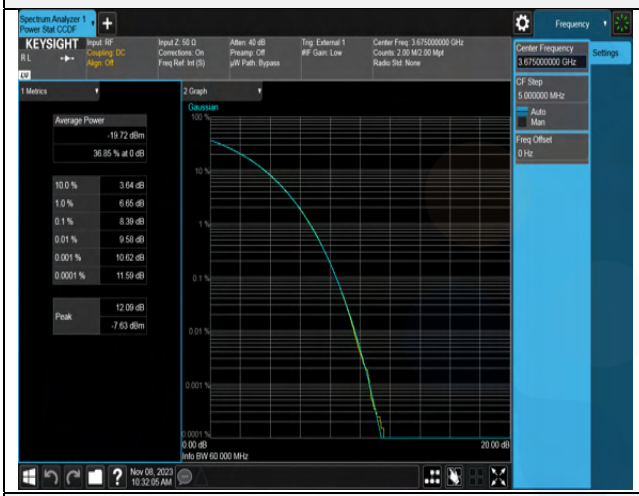
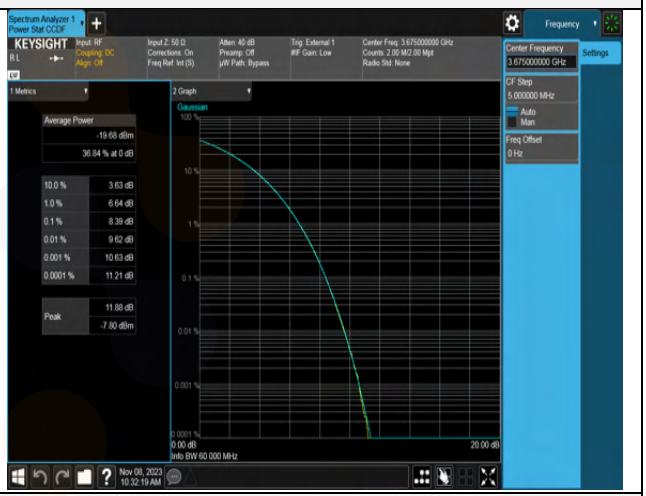
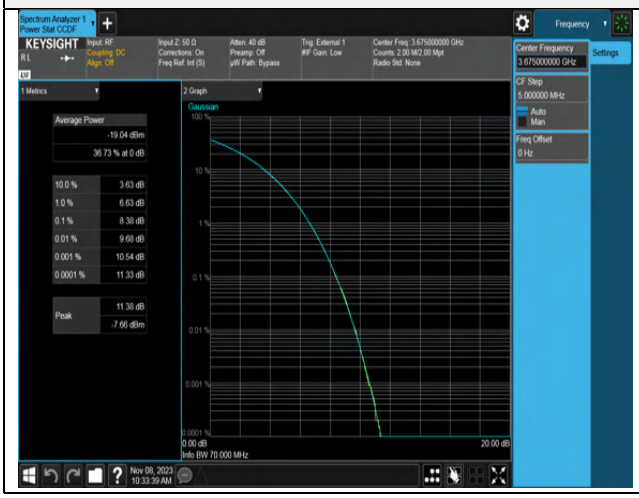
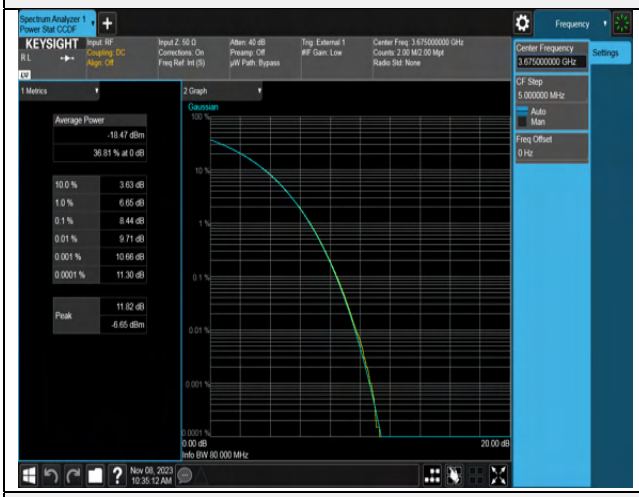
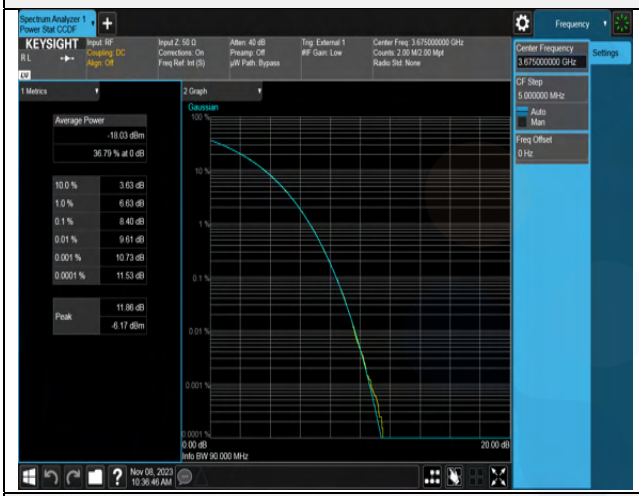
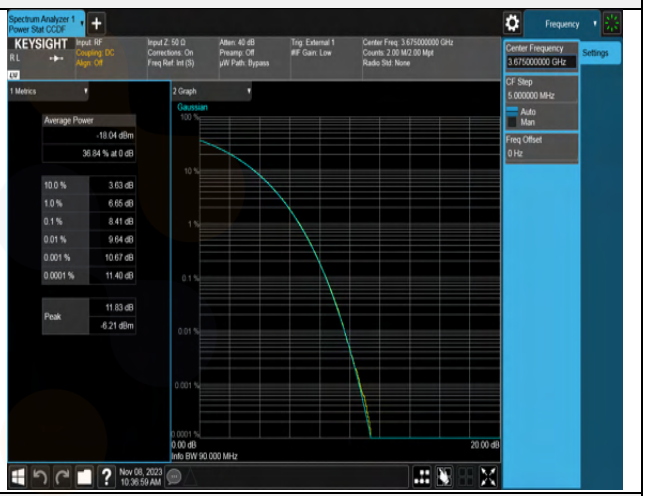
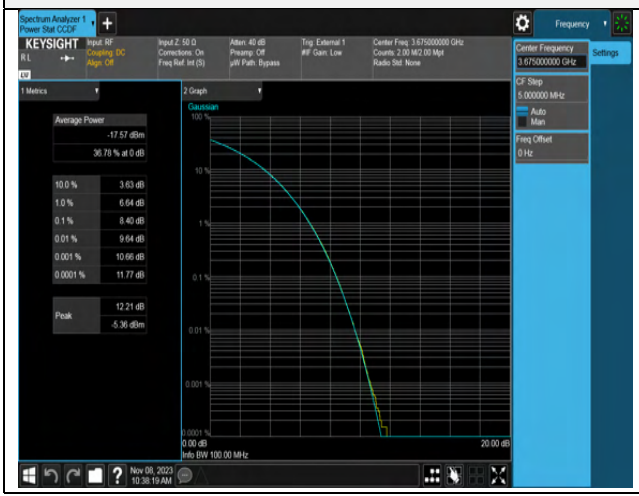
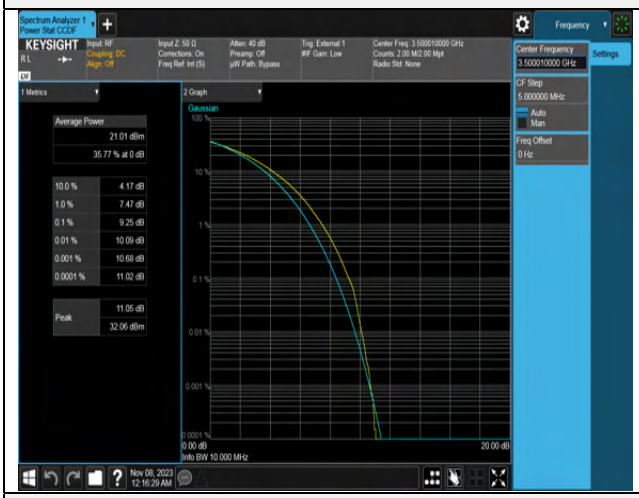
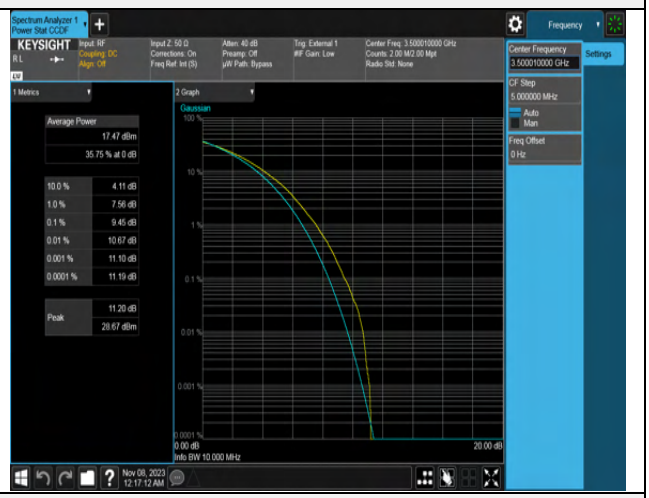
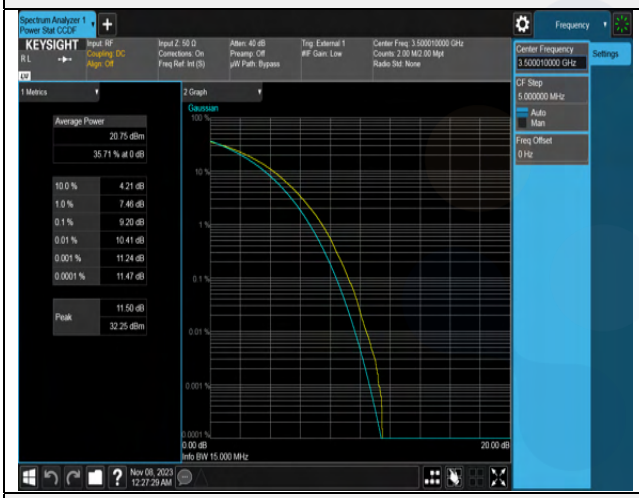
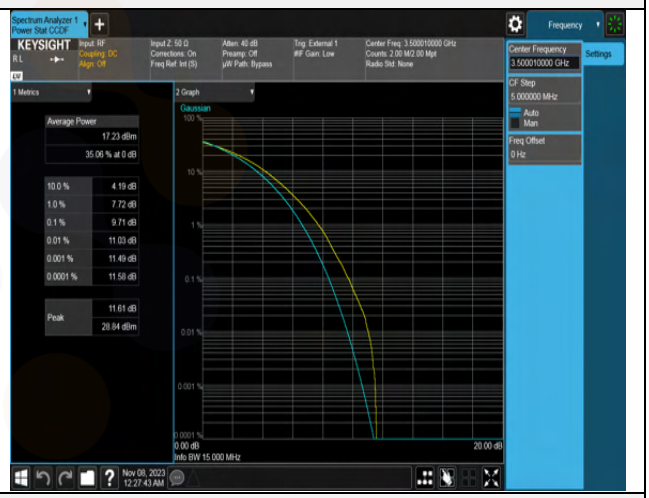
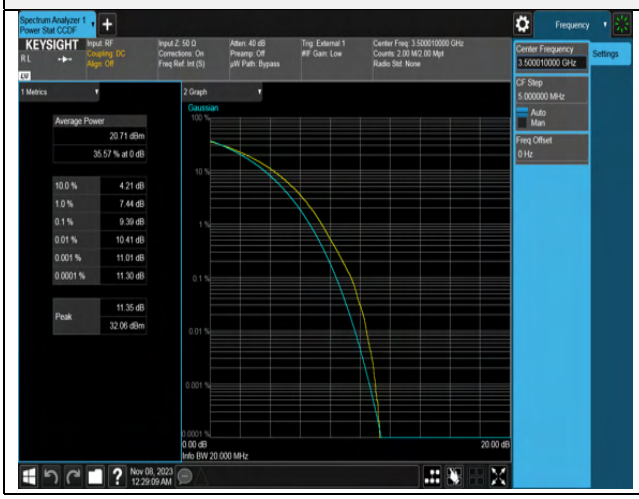
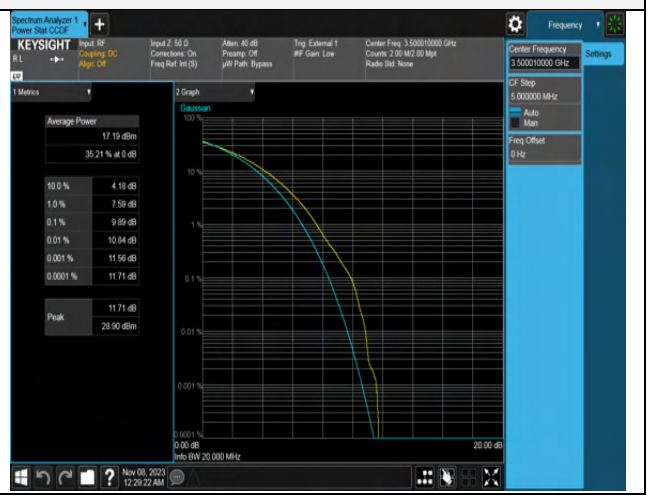
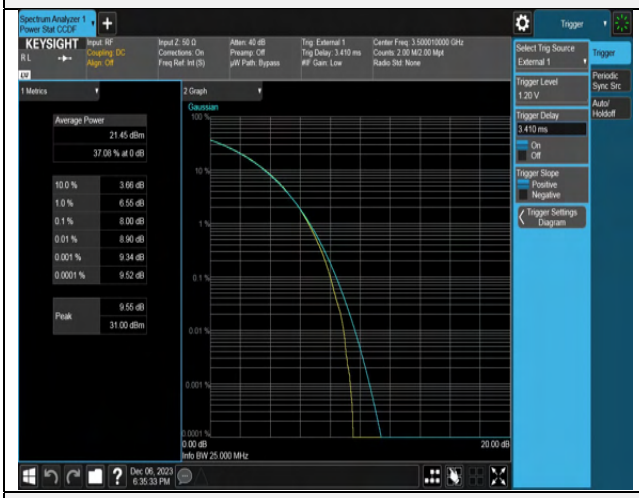
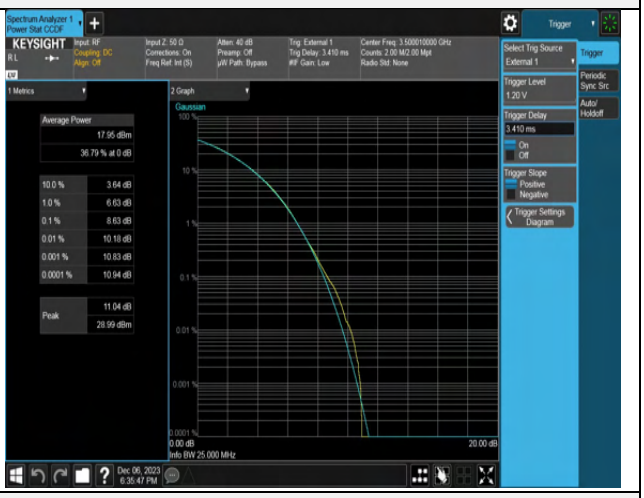
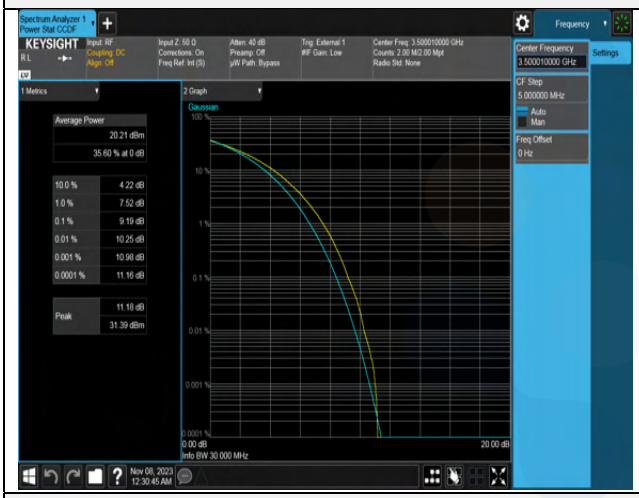
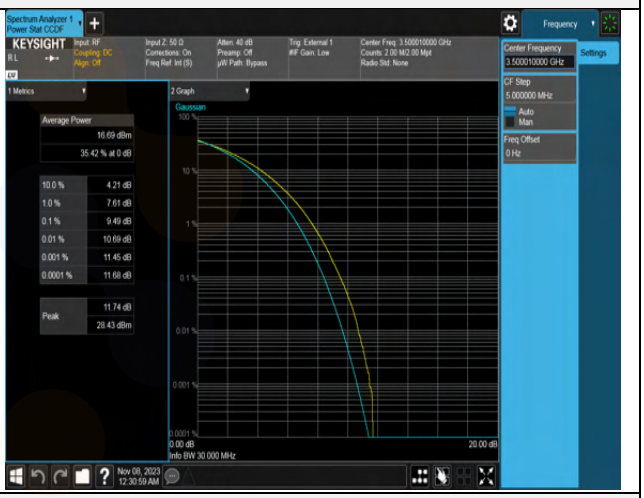
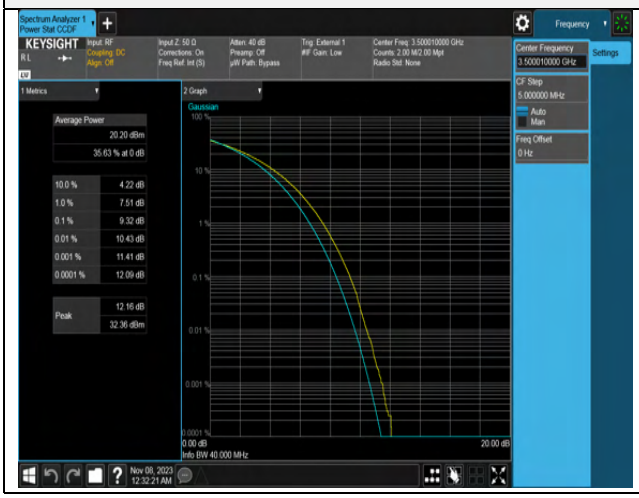
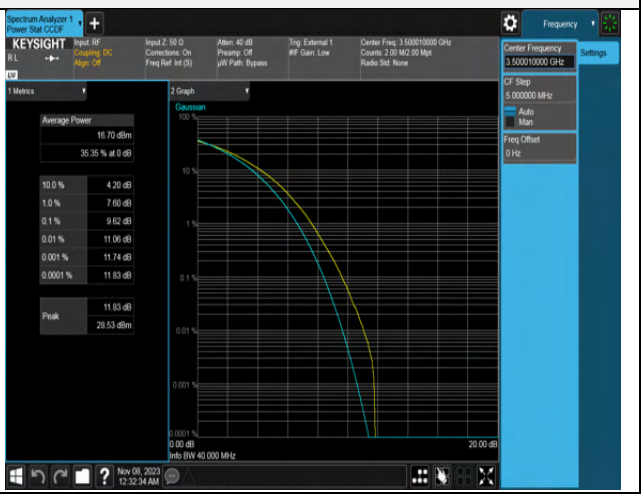
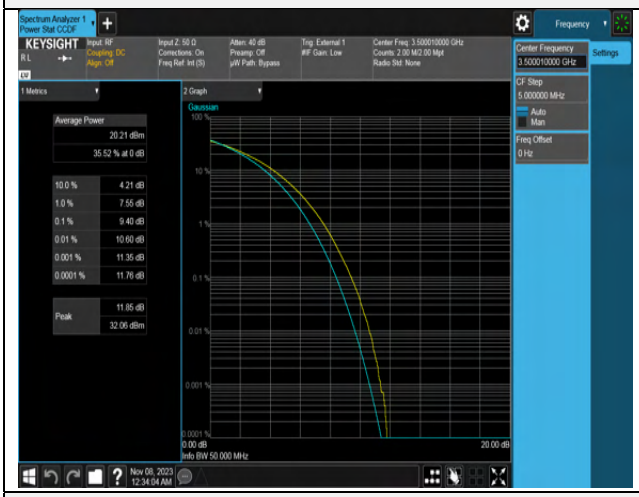
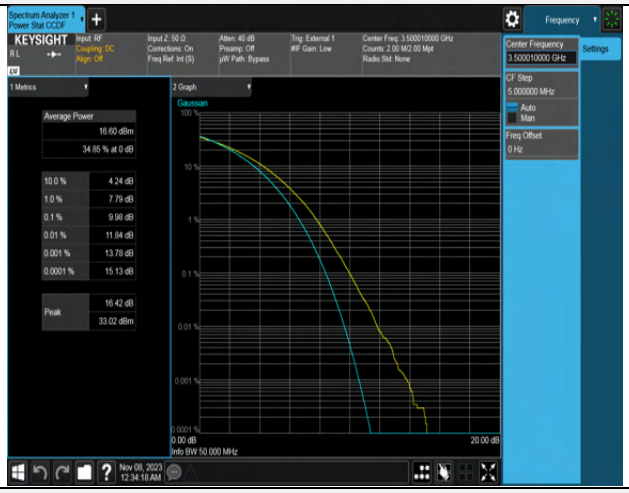
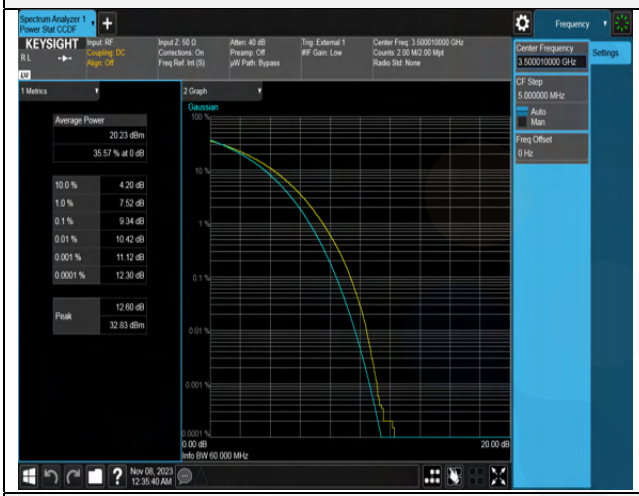
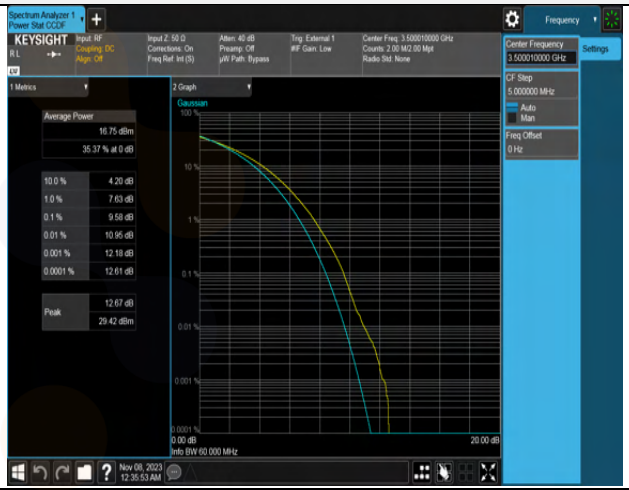
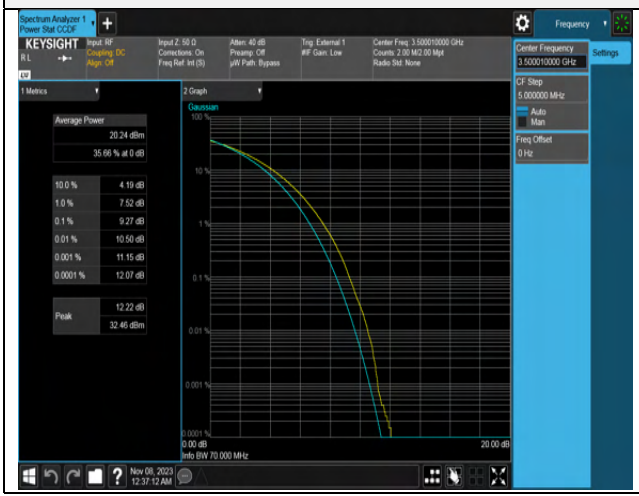
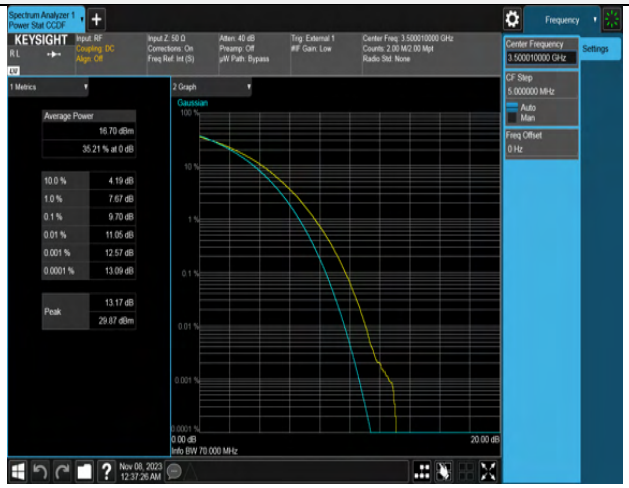
50M BW QPSK Mid ch.	50M BW 256QAM Mid ch.
	
60M BW QPSK Mid ch.	**60M BW 256QAM Mid ch.**
	
70M BW QPSK Mid ch.	**70M BW 256QAM Mid ch.**
	

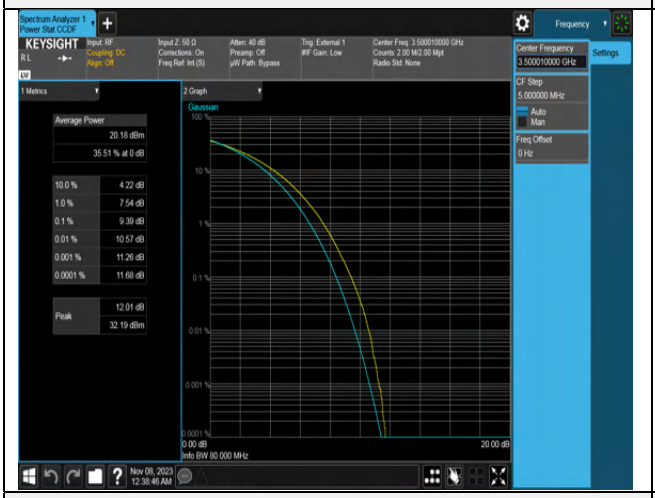
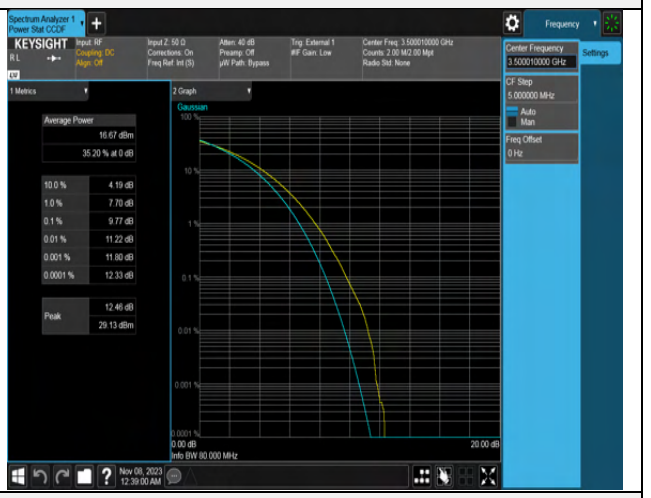
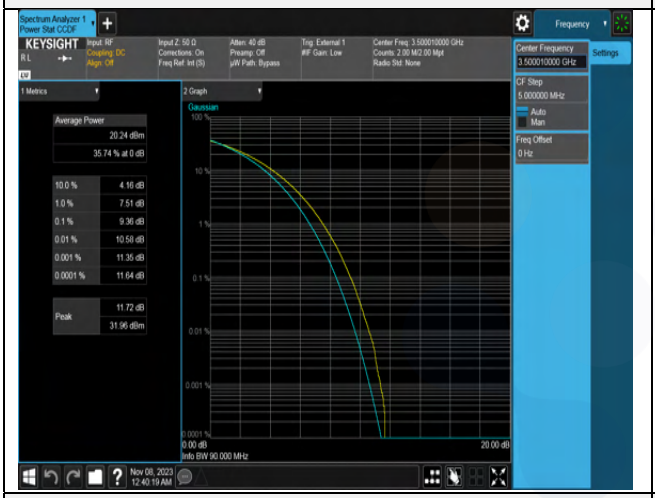
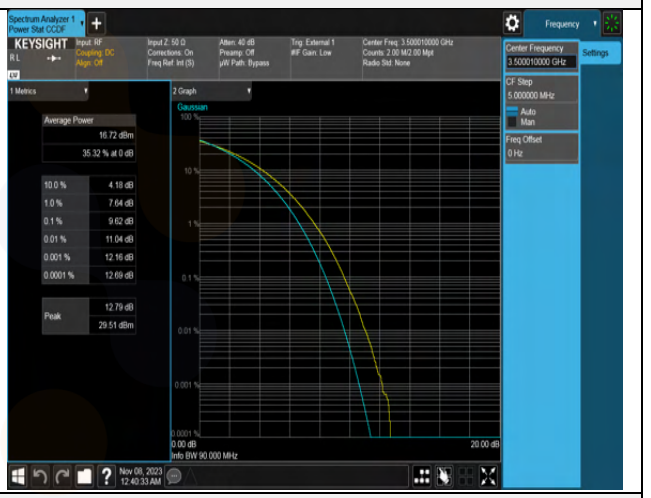
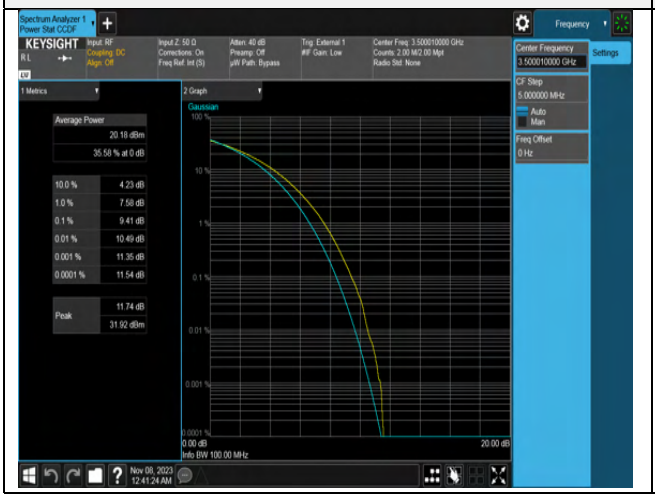
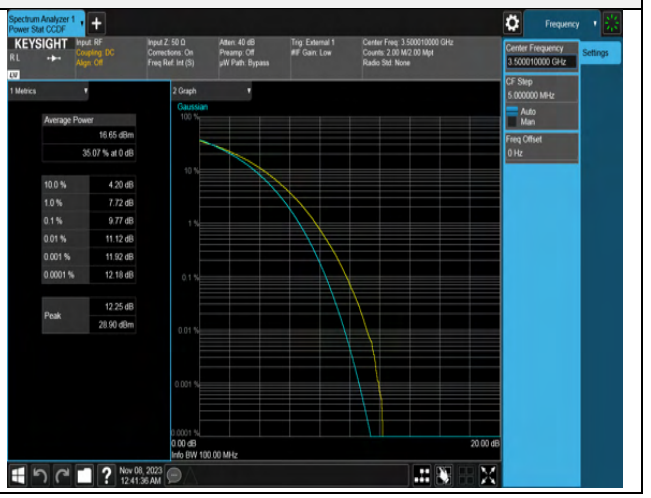
80M BW QPSK Mid ch.	80M BW 256QAM Mid ch.
	
90M BW QPSK Mid ch.	**90M BW 256QAM Mid ch.**
	
100M BW QPSK Mid ch.	**100M BW 256QAM Mid ch.**
	

Test mode: NR n77 (Lower) (PC3)

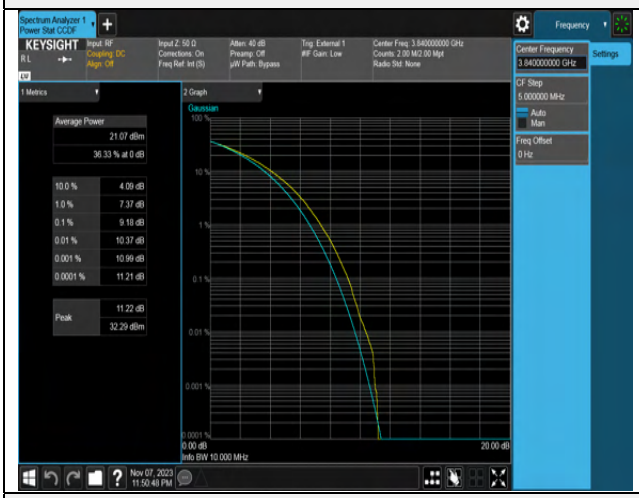
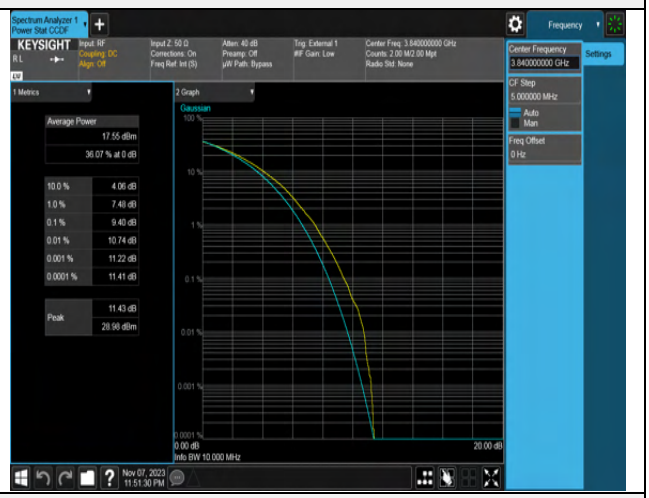
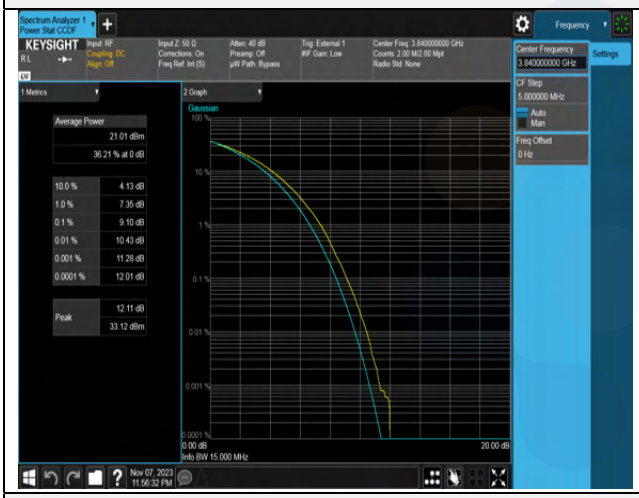
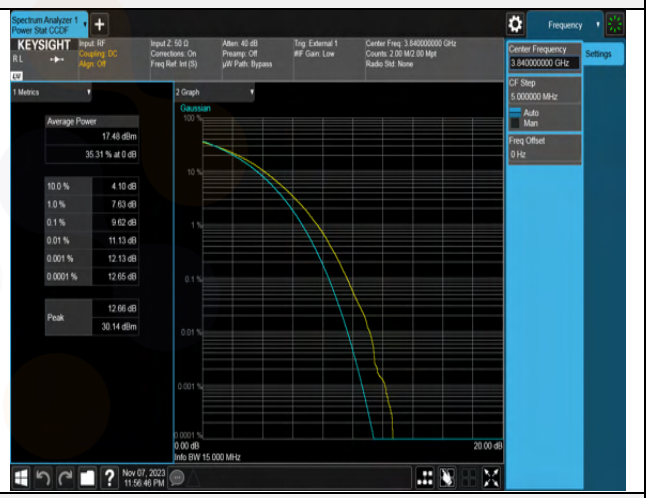
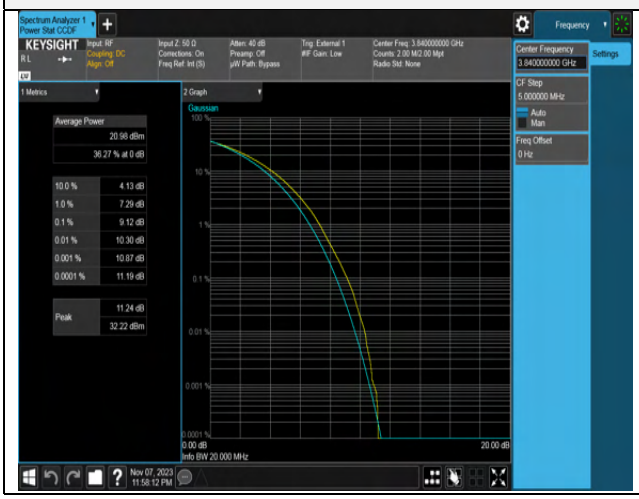
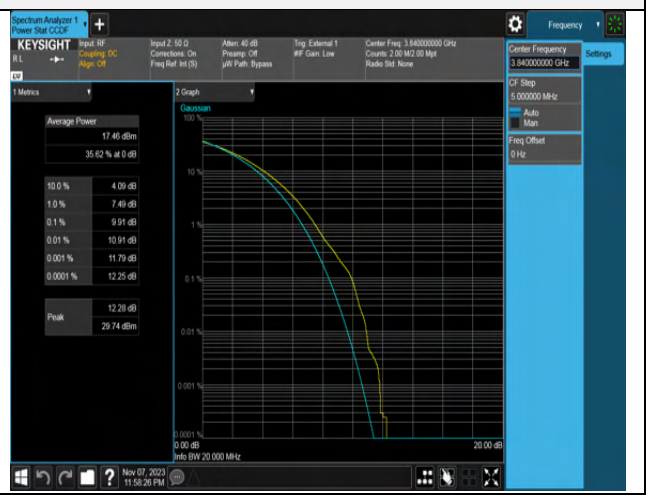
10M BW QPSK Mid ch.	10M BW 256QAM Mid ch.
	
15M BW QPSK Mid ch.	**15M BW 256QAM Mid ch.**
	
20M BW QPSK Mid ch.	**20M BW 256QAM Mid ch.**
	

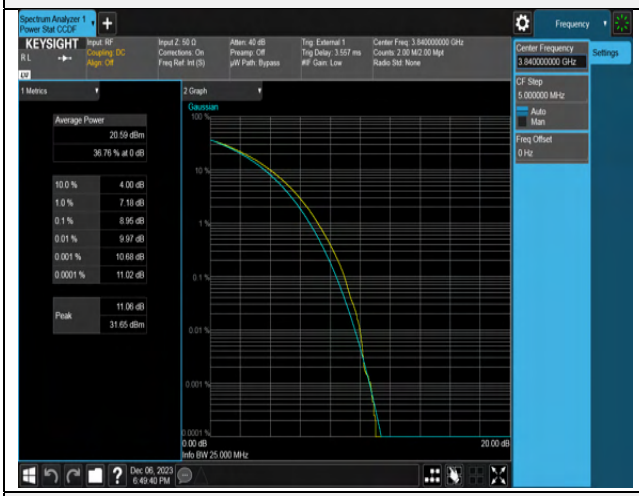
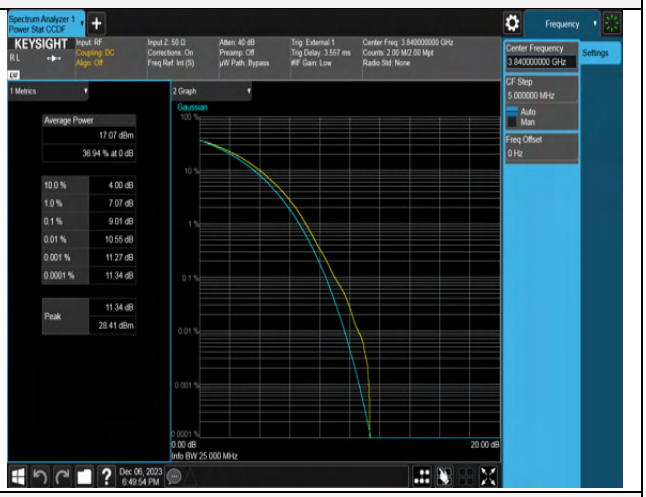
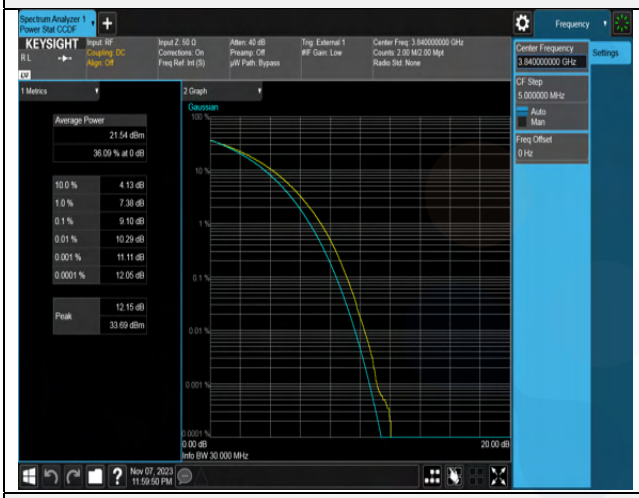
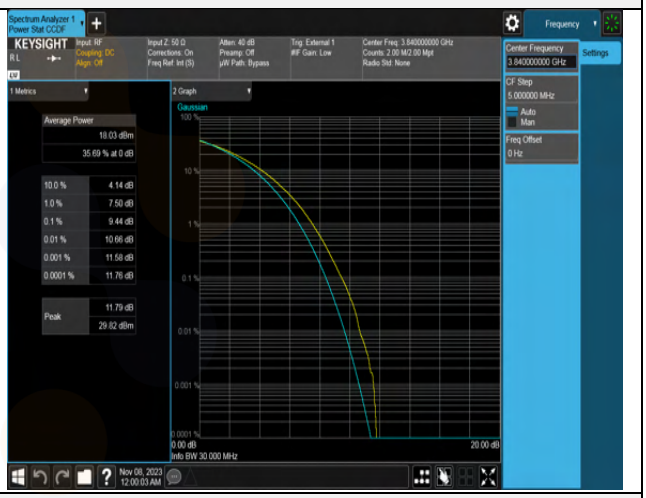
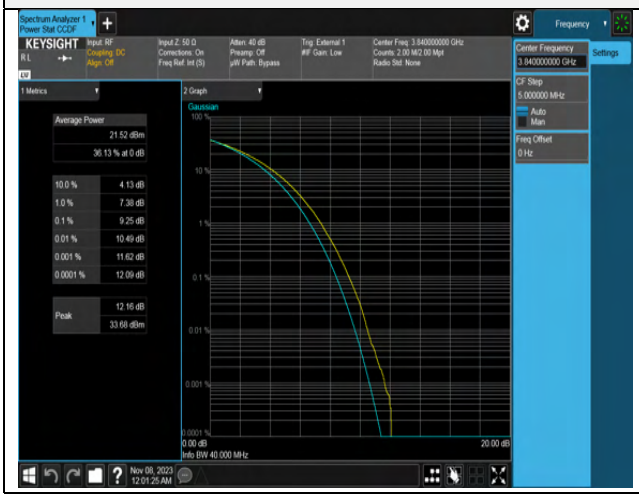
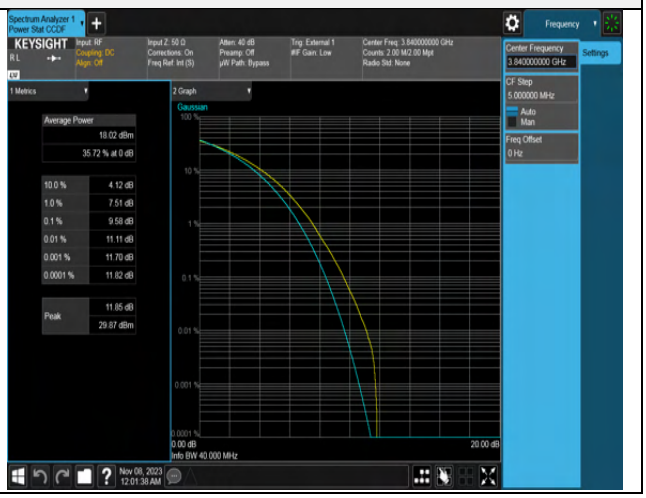
25M BW QPSK Mid ch.	25M BW 256QAM Mid ch.
	
30M BW QPSK Mid ch.	**30M BW 256QAM Mid ch.**
	
40M BW QPSK Mid ch.	**40M BW 256QAM Mid ch.**
	

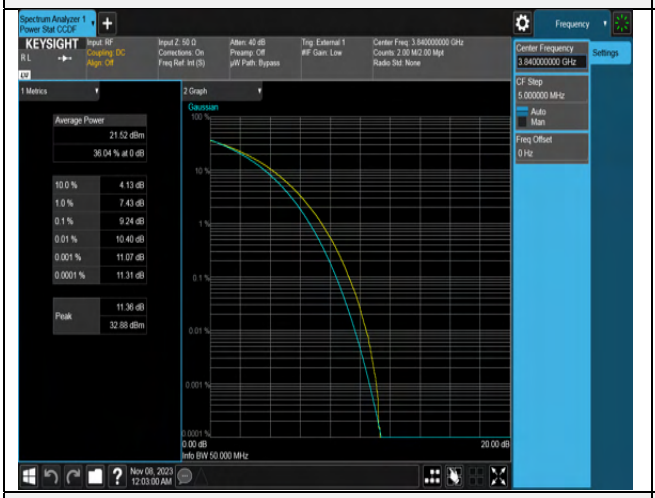
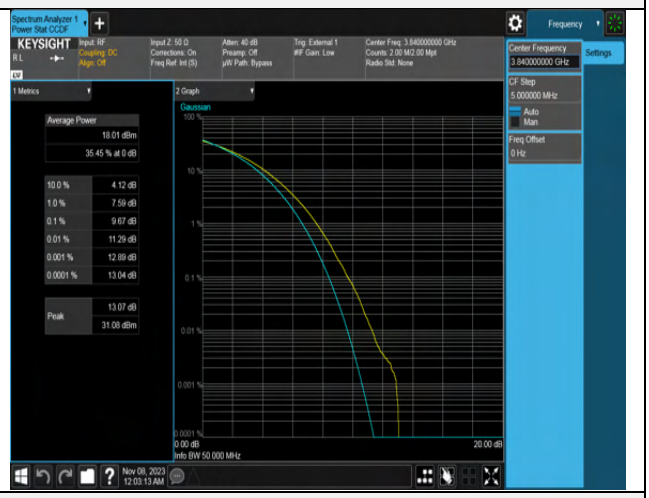
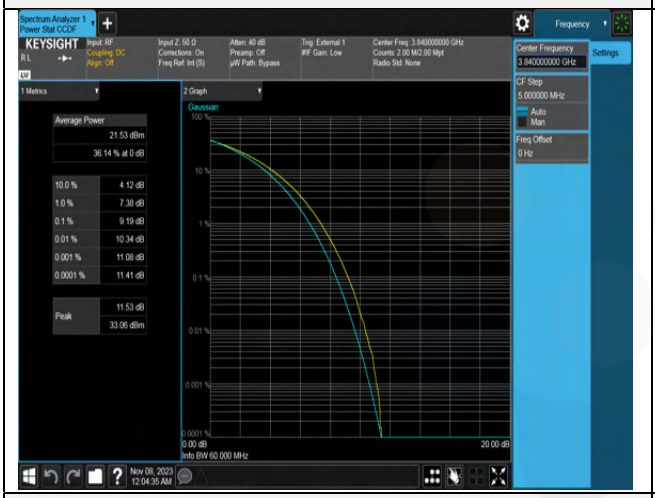
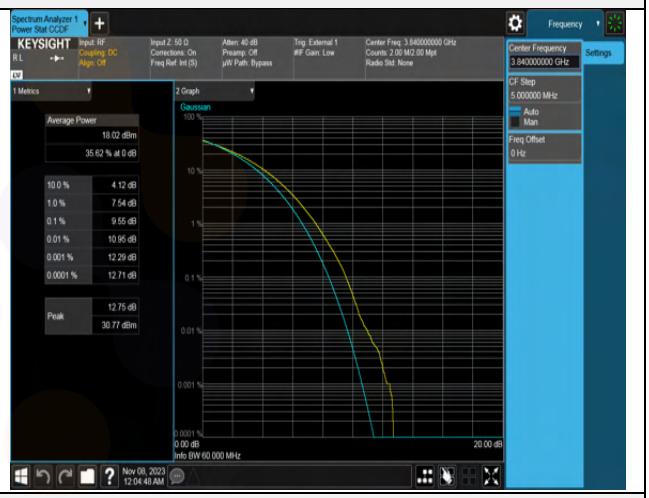
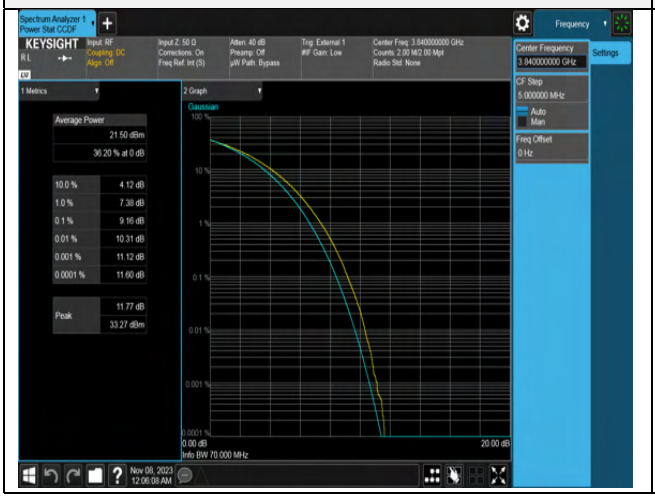
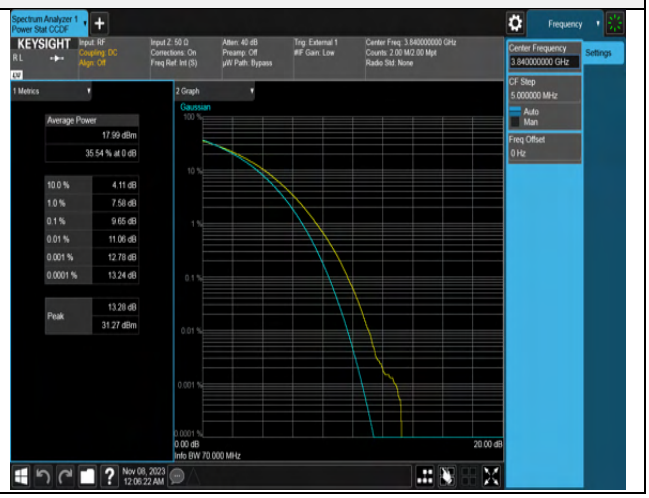
50M BW QPSK Mid ch.	50M BW 256QAM Mid ch.
	
60M BW QPSK Mid ch.	**60M BW 256QAM Mid ch.**
	
70M BW QPSK Mid ch.	**70M BW 256QAM Mid ch.**
	

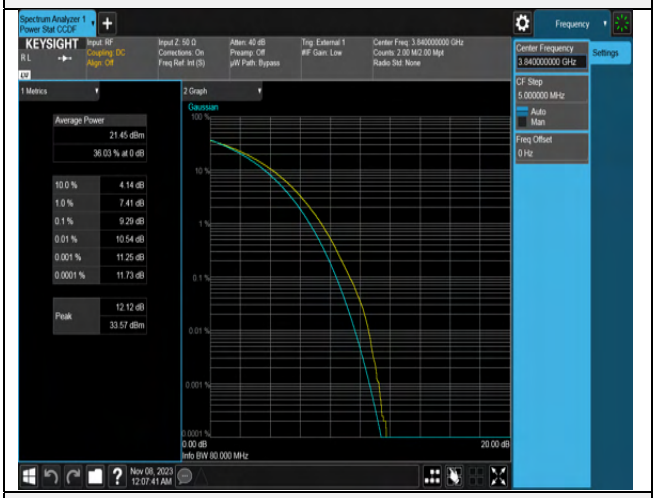
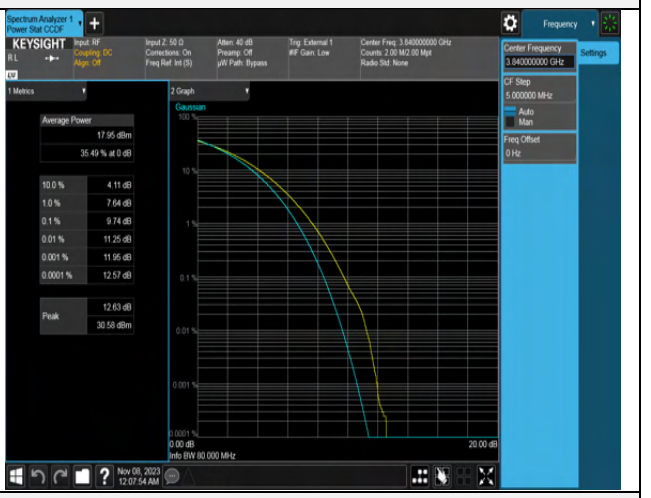
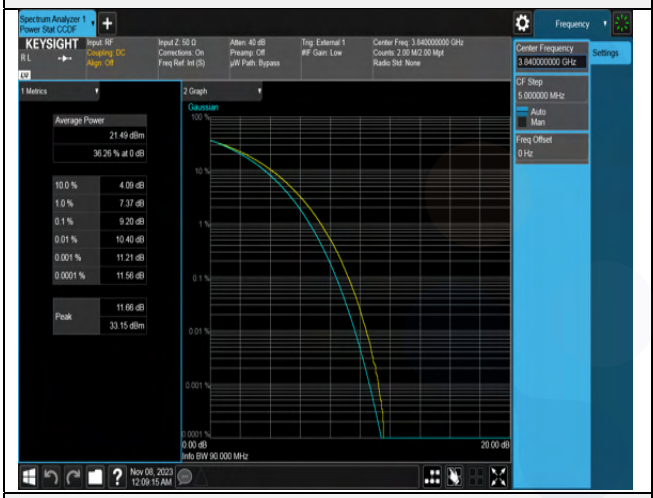
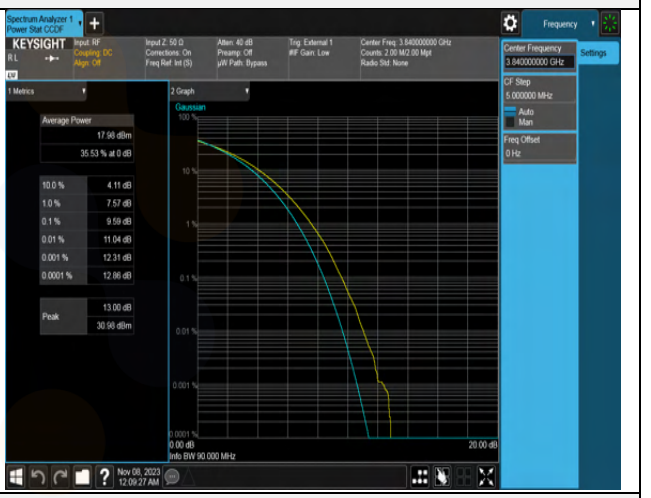
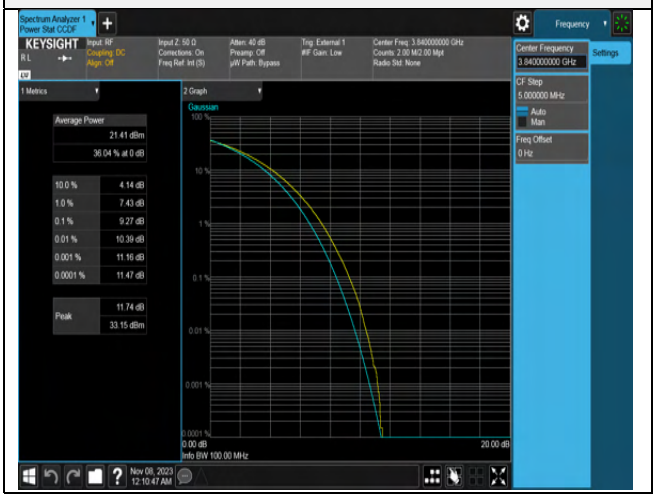
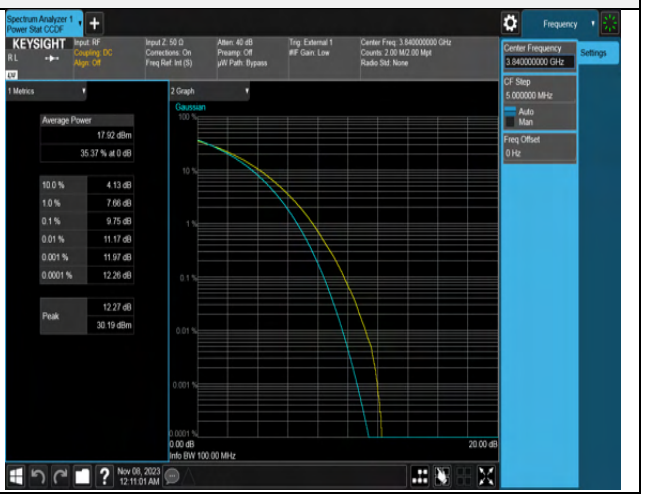
80M BW QPSK Mid ch.	80M BW 256QAM Mid ch.
	
90M BW QPSK Mid ch.	**90M BW 256QAM Mid ch.**
	
100M BW QPSK Mid ch.	**100M BW 256QAM Mid ch.**
	

Test mode: NR n77 (Upper) (PC3)

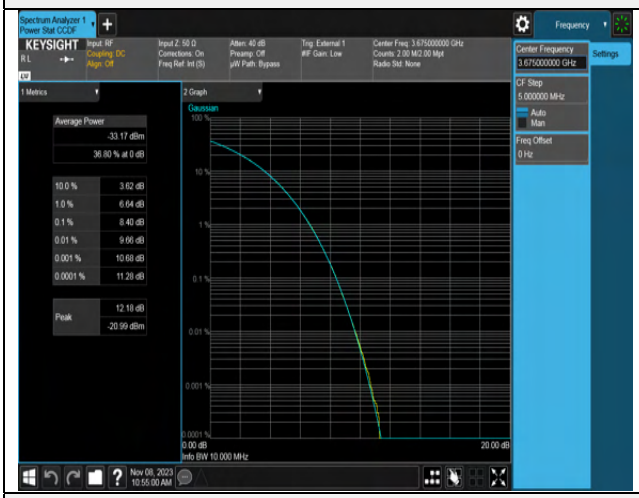
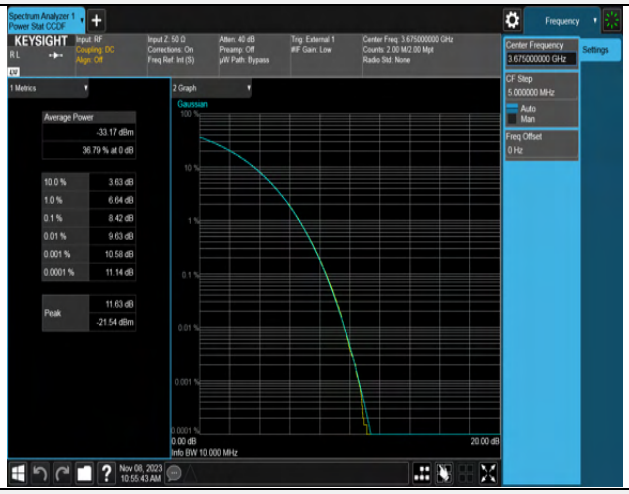
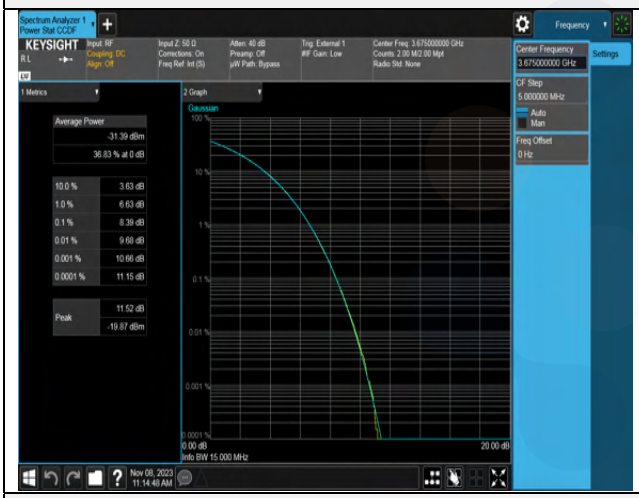
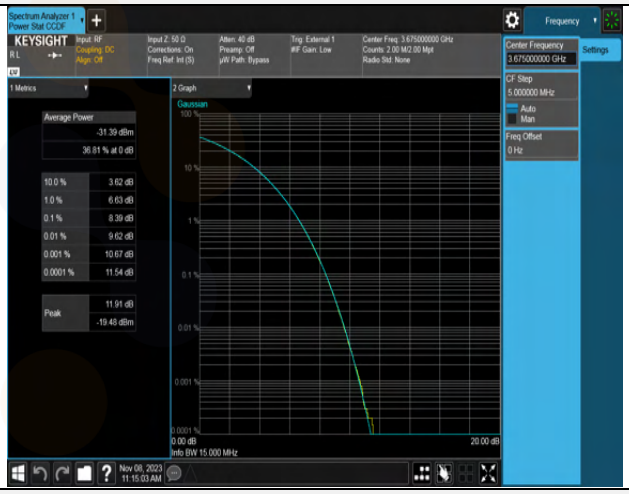
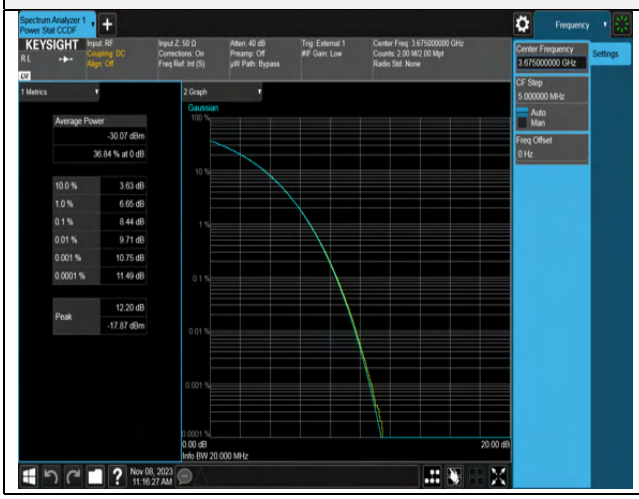
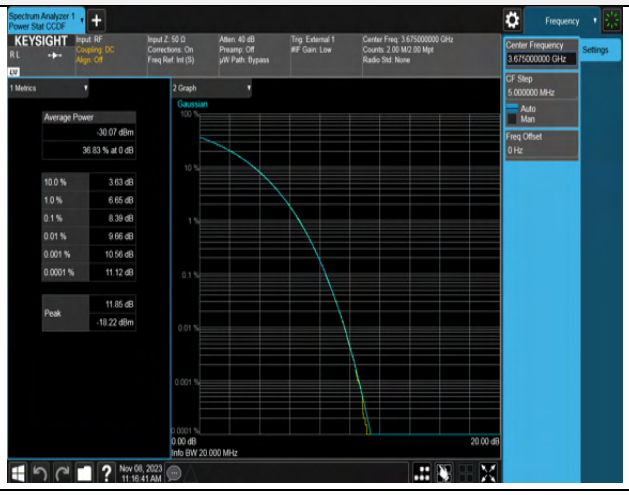
10M BW QPSK Mid ch.	10M BW 256QAM Mid ch.
	
15M BW QPSK Mid ch.	**15M BW 256QAM Mid ch.**
	
20M BW QPSK Mid ch.	**20M BW 256QAM Mid ch.**
	

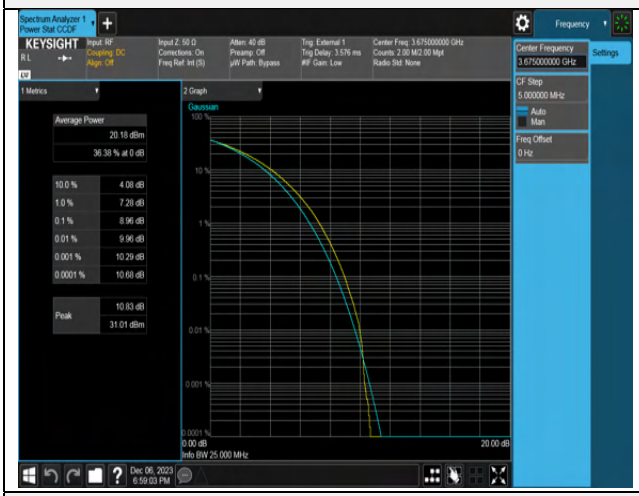
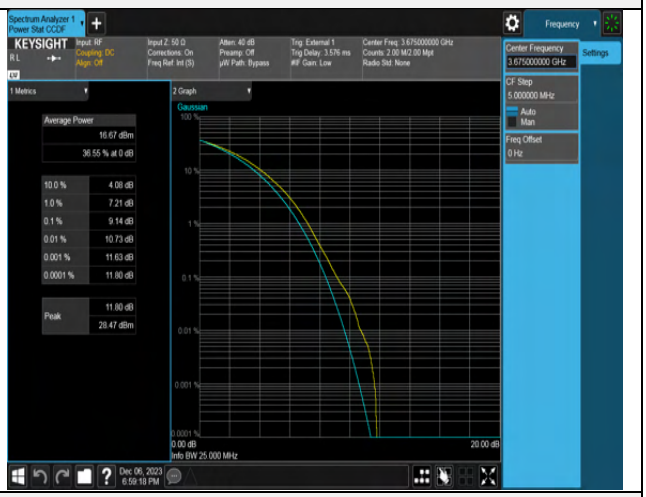
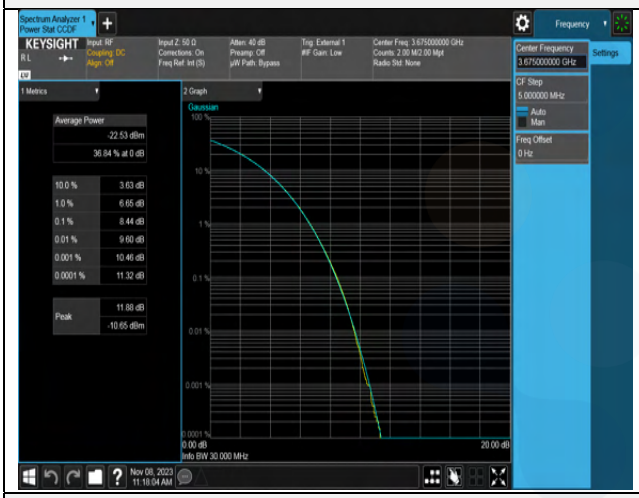
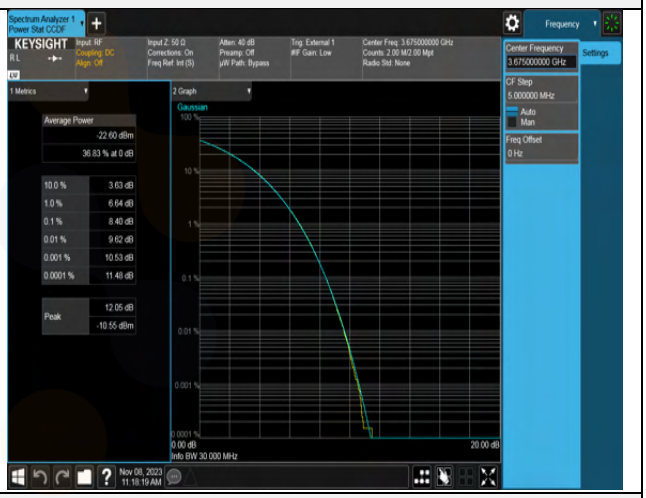
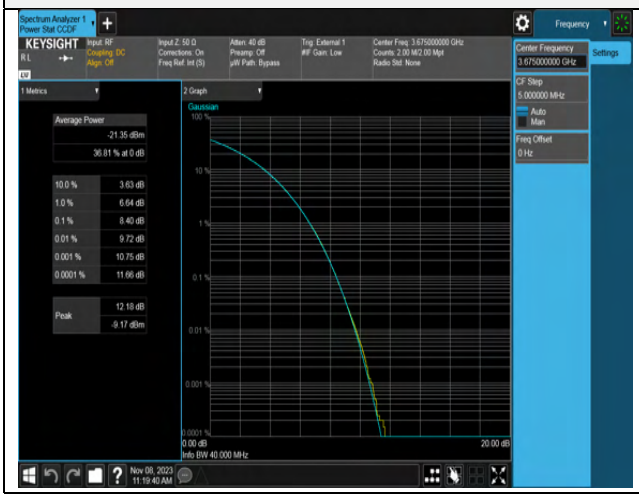
25M BW QPSK Mid ch.	25M BW 256QAM Mid ch.
	
30M BW QPSK Mid ch.	**30M BW 256QAM Mid ch.**
	
40M BW QPSK Mid ch.	**40M BW 256QAM Mid ch.**
	

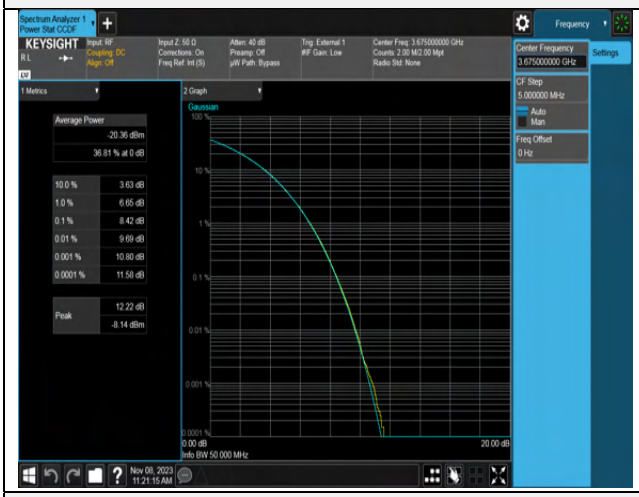
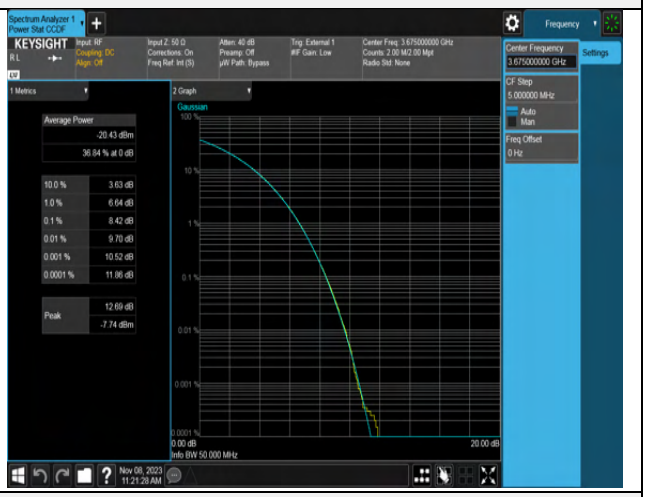
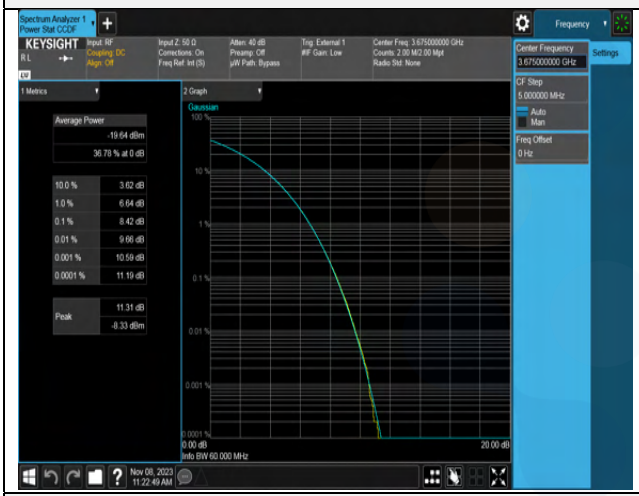
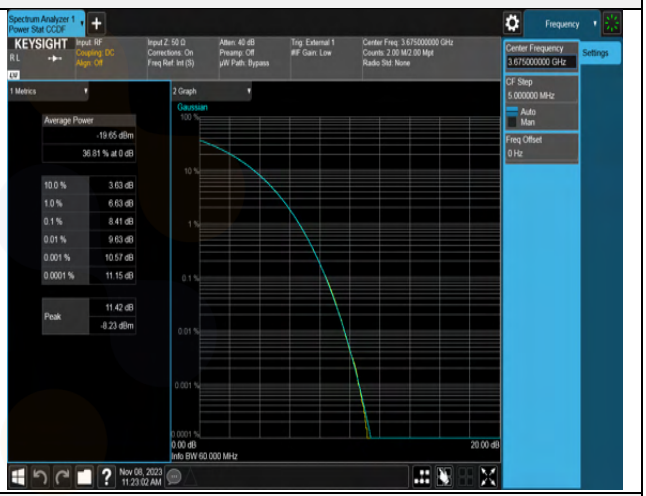
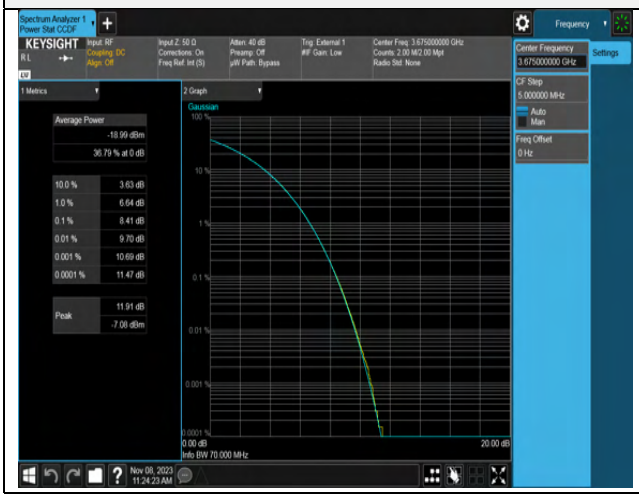
50M BW QPSK Mid ch.	50M BW 256QAM Mid ch.
	
60M BW QPSK Mid ch.	**60M BW 256QAM Mid ch.**
	
70M BW QPSK Mid ch.	**70M BW 256QAM Mid ch.**
	

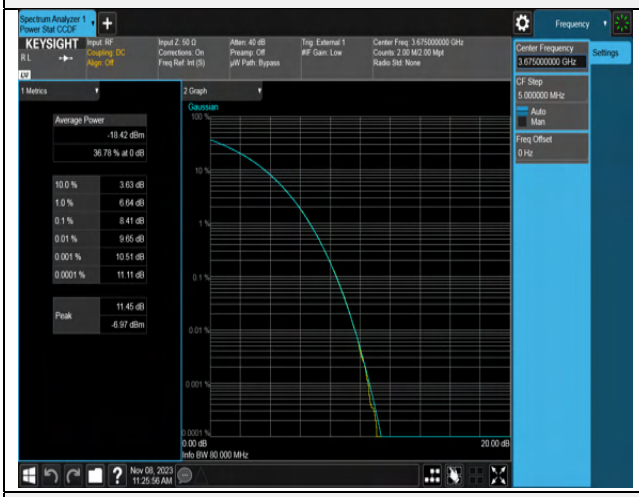
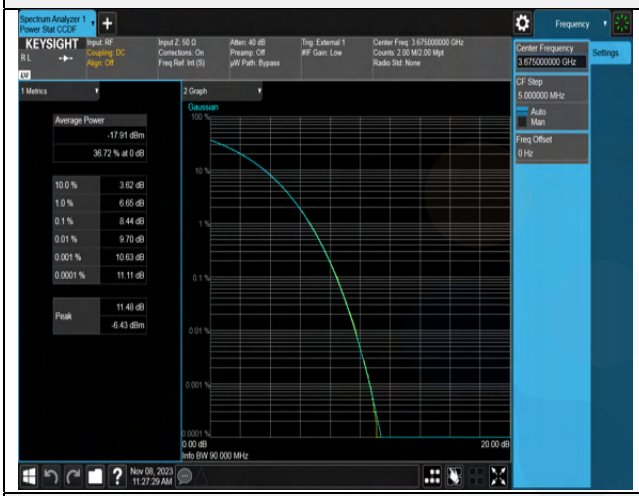
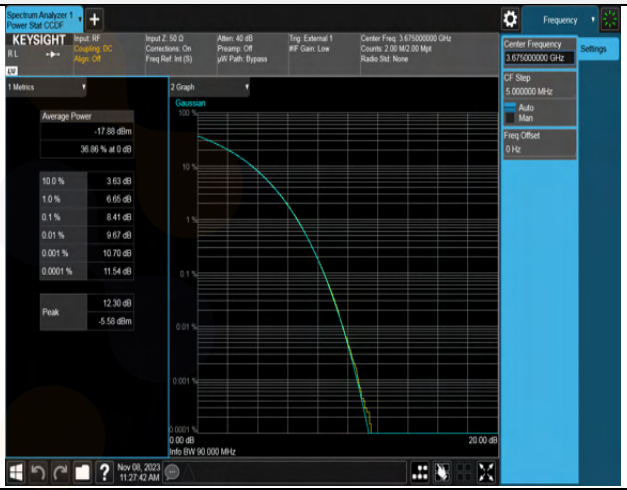
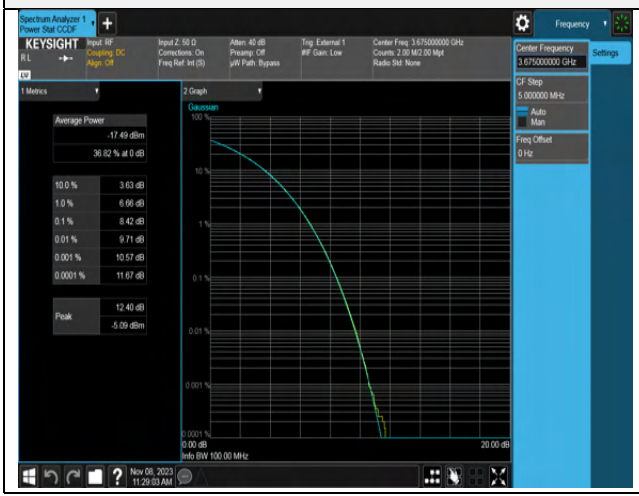
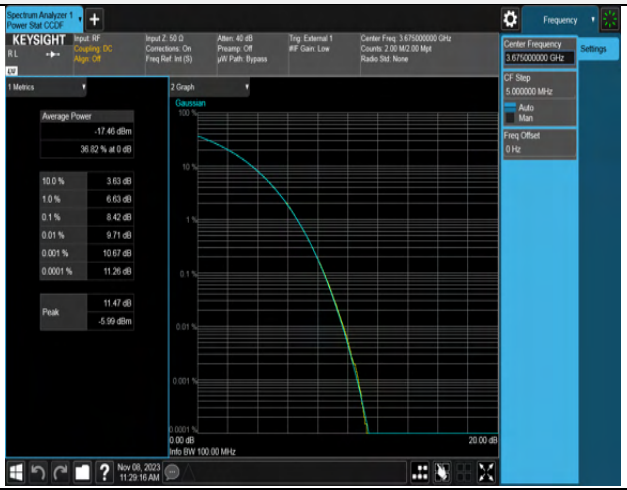
80M BW QPSK Mid ch.	80M BW 256QAM Mid ch.
	
90M BW QPSK Mid ch.	**90M BW 256QAM Mid ch.**
	
100M BW QPSK Mid ch.	**100M BW 256QAM Mid ch.**
	

Test mode: NR n77 (PC3 - IC)

10M BW QPSK Mid ch.	10M BW 256QAM Mid ch.
	
15M BW QPSK Mid ch.	**15M BW 256QAM Mid ch.**
	
20M BW QPSK Mid ch.	**20M BW 256QAM Mid ch.**
	

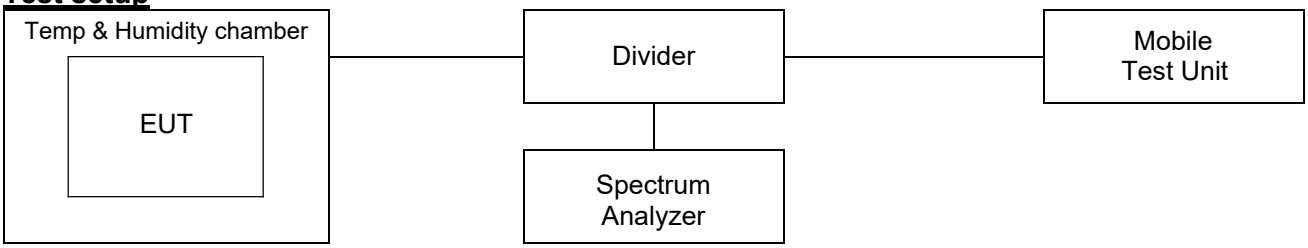
25M BW QPSK Mid ch.	25M BW 256QAM Mid ch.
	
30M BW QPSK Mid ch.	**30M BW 256QAM Mid ch.**
	
40M BW QPSK Mid ch.	**40M BW 256QAM Mid ch.**
	

50M BW QPSK Mid ch.	50M BW 256QAM Mid ch.
	
60M BW QPSK Mid ch.	**60M BW 256QAM Mid ch.**
	
70M BW QPSK Mid ch.	**70M BW 256QAM Mid ch.**
	

80M BW QPSK Mid ch.	80M BW 256QAM Mid ch.
	
90M BW QPSK Mid ch.	**90M BW 256QAM Mid ch.**
	
100M BW QPSK Mid ch.	**100M BW 256QAM Mid ch.**
	

7.6 Frequency stability

Test setup



Limit

According to §2.1055(a),

The frequency stability shall be measured with variation of ambient temperature as follows:

1) From -30° to + 50° centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section.
2) From -20° to + 50° centigrade for equipment to be licensed for use in the maritime services under part 80 of this chapter, except for class A, B, and S emergency position indicating radio beacons (EPIRBS), and equipment to be licensed for use above 952 ㎒ at operational fixed stations in all services, stations in the local television transmission service and point-to-point microwave radio service under part 21 of this chapter, equipment licensed for use aboard aircraft in the aviation services under part 87 of this chapter, and equipment authorized for use in the family radio service under part 95 of this chapter.
3) From 0° to + 50° centigrade for equipment to be licensed for use in the radio broadcast Services under part 73 of this chapter.

According to §2.1055(d),

The frequency stability shall be measured with variation of primary supply Voltage as follows:

1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.
2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating and point which shall be specified by the manufacturer.
3) The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided. Effects on frequency of transmitter keying (except for broadcast transmitters) and any heating element cycling at the nominal supply voltage and at each extreme also shall be shown.

According to §22.355 and RSS-132(5.3)

For FCC, the carrier frequency of each transmitter in the public mobile services must be maintained within the tolerances given in Table of this section. For mobile devices operating in the 824 to 849 ㎒ band at a power level than or equal to 3 Watts, the limit specified in Table C-1 is ±2.5 ppm.

For IC, the frequency stability shall be sufficient to ensure that the occupied bandwidth stays within each of the sub-bands when tested at the temperature and supply voltage variations specified in RSS-Gen

According to §24.235 and RSS-133(6.3),
For FCC, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

For IC, the carrier frequency shall not depart from the reference frequency, in excess of ±2.5 ppm for mobile stations and ±1.0 ppm for base stations.

According to §27.54 and RSS-130(4.5), RSS-199(5.4)
For FCC&IC, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

According to §27.54 and RSS-139(5.4), RSS-192(5.4)
For FCC, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

For IC, the frequency stability shall be sufficient to ensure that the occupied bandwidth stay within the operating frequency block or frequency block group when tested to the temperature and supply voltage variations specified in RSS-Gen.

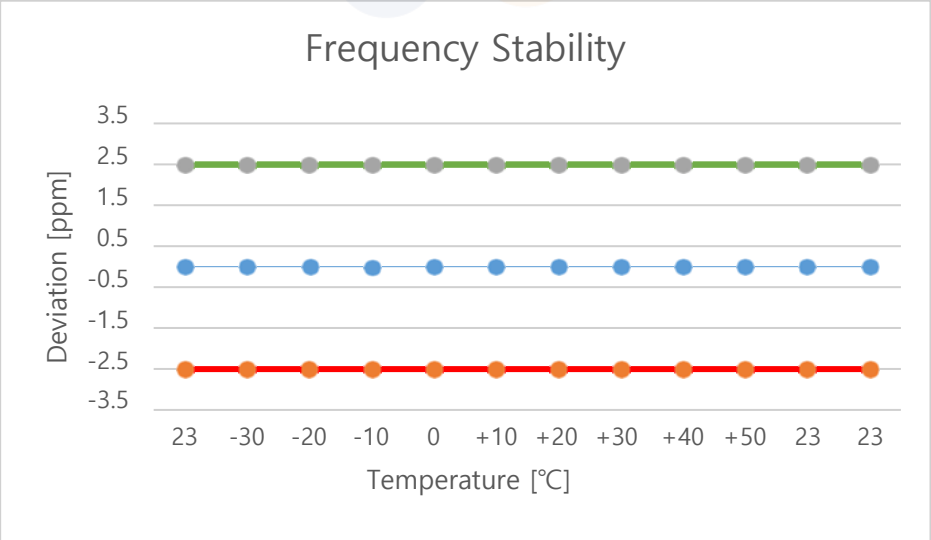
Test procedure
ANSI 63.26-2015 – Section 5.6

Test settings
1) The carrier frequency of the transmitter is measured at room temperature. (20°C to provide a reference)
2) The equipment is turned on in a “standby” condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3) Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each Temperature level.

Test results

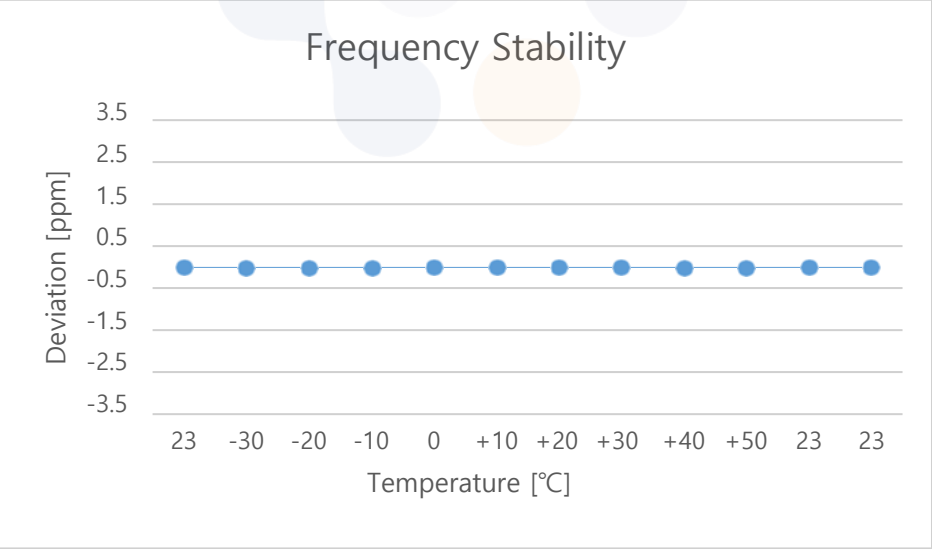
Test mode	:	NR n5
Frequency (㎐)	:	836 500 000
Channel	:	167300
Deviation limit(FCC)	:	±0.00025% or 2.5ppm
Deviation limit(IC)	:	The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within each of the sub-bands when tested at the temperature and supply voltage

Voltage (%)	Power (V)	Temp. (°C)	Frequency (㎐)	Frequency error (㎐)	Deviation	
					(ppm)	(%)
100%	3.85	+23(Ref)	836,500,002	2.00	0.0	0.000 000
		-30	836,500,003	3.40	0.0	0.000 000
		-20	836,500,005	4.50	0.0	0.000 001
		-10	836,500,002	1.70	0.0	0.000 000
		0	836,500,001	0.90	0.0	0.000 000
		+10	836,500,002	1.50	0.0	0.000 000
		+20	836,500,003	2.50	0.0	0.000 000
		+30	836,500,003	3.10	0.0	0.000 000
		+40	836,500,005	5.10	0.0	0.000 001
		+50	836,500,006	5.50	0.0	0.000 001
115%	4.43	+23(Ref)	836,500,001	0.80	0.0	0.000 000
End point	3.40	+23(Ref)	836,500,003	3.00	0.0	0.000 000



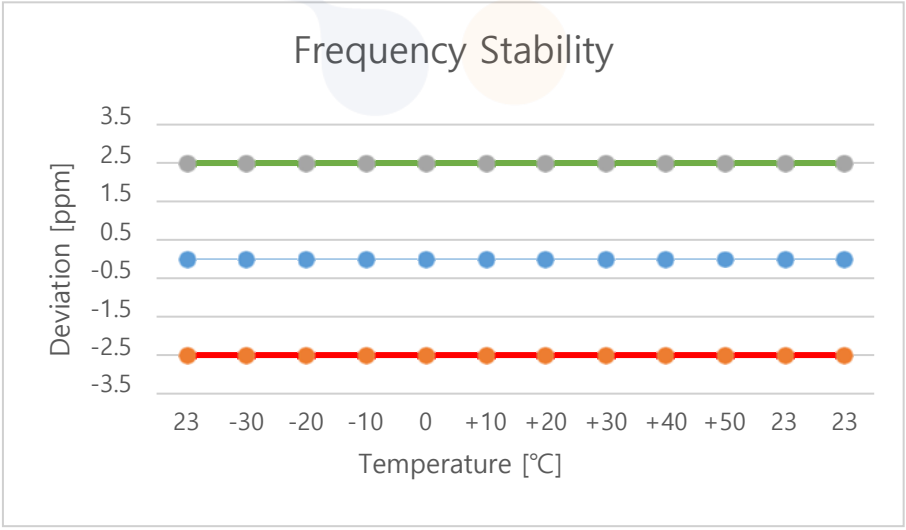
Test mode : NR n12
Frequency (㎐) : 707 500 000
Channel : 141500
Deviation limit(FCC&IC) : The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized bands of operation

Voltage (%)	Power (V)	Temp. (°C)	Frequency (㎐)	Frequency error (㎐)	Deviation	
					(ppm)	(%)
100%	3.85	+23(Ref)	707,500,001	1.20	0.0	0.000 000
		-30	707,499,992	-8.10	0.0	-0.000 001
		-20	707,499,994	-5.80	0.0	-0.000 001
		-10	707,499,997	-3.00	0.0	0.000 000
		0	707,499,998	-2.20	0.0	0.000 000
		+10	707,500,001	0.70	0.0	0.000 000
		+20	707,500,002	1.50	0.0	0.000 000
		+30	707,500,004	3.90	0.0	0.000 001
		+40	707,500,003	3.10	0.0	0.000 000
		+50	707,500,006	5.50	0.0	0.000 001
115%	4.43	+23(Ref)	707,500,001	1.10	0.0	0.000 000
End point	3.40	+23(Ref)	707,500,002	1.90	0.0	0.000 000



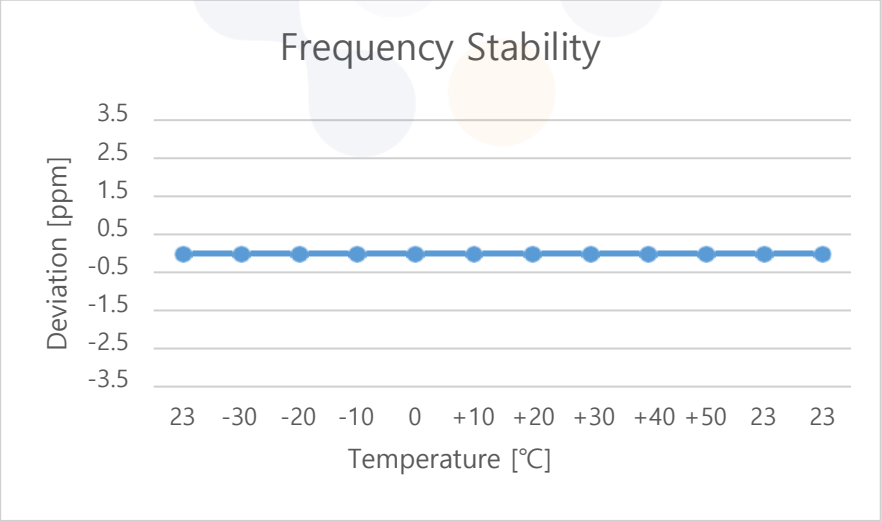
Test mode : NR n25/2
Frequency (㎐) : 1 882 500 000
Channel : 376500
Deviation limit(FCC) : The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.
Deviation limit(IC) : ±0.00025% or 2.5ppm

Voltage (%)	Power (V)	Temp. (°C)	Frequency (㎐)	Frequency error (㎐)	Deviation	
					(ppm)	(%)
100%	3.88	+23(Ref)	1,882,500,001	1.40	0.0	0.000 000
		-30	1,882,499,998	-2.40	0.0	0.000 000
		-20	1,882,499,994	-6.00	0.0	0.000 000
		-10	1,882,499,999	-1.10	0.0	0.000 000
		0	1,882,499,997	-3.10	0.0	0.000 000
		+10	1,882,499,997	-2.80	0.0	0.000 000
		+20	1,882,500,001	1.20	0.0	0.000 000
		+30	1,882,500,003	3.40	0.0	0.000 000
		+40	1,882,500,006	5.90	0.0	0.000 000
		+50	1,882,500,004	4.40	0.0	0.000 000
115%	4.46	+23(Ref)	1,882,500,000	0.30	0.0	0.000 000
End point	3.40	+23(Ref)	1,882,500,001	0.60	0.0	0.000 000



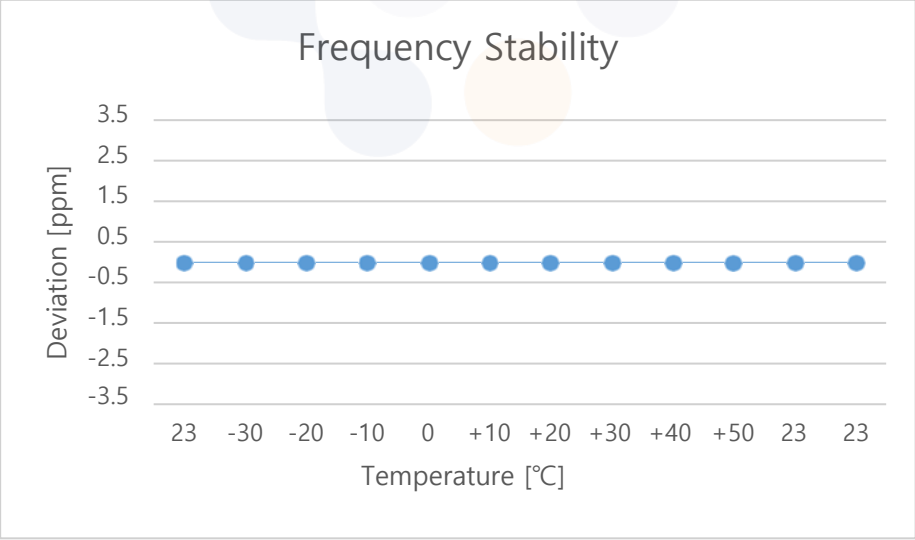
Test mode : NR n30
Frequency (㎐) : 2 310 00 000
Channel : 462000
Deviation limit(FCC&IC) : The frequency stability shall be sufficient to ensure that the fundamental emission stay within the authorized bands of operation

Voltage (%)	Power (V)	Temp. (°C)	Frequency (㎐)	Frequency error (㎐)	Deviation	
					(ppm)	(%)
100%	3.85	+23(Ref)	2,309,999,999	-1.00	0.0	0.000 000
		-30	2,309,999,997	-2.90	0.0	0.000 000
		-20	2,309,999,997	-3.30	0.0	0.000 000
		-10	2,309,999,997	-2.60	0.0	0.000 000
		0	2,309,999,998	-2.00	0.0	0.000 000
		+10	2,309,999,998	-1.80	0.0	0.000 000
		+20	2,309,999,999	-0.90	0.0	0.000 000
		+30	2,309,999,999	-1.50	0.0	0.000 000
		+40	2,309,999,998	-1.60	0.0	0.000 000
		+50	2,309,999,997	-3.50	0.0	0.000 000
115%	4.43	+23(Ref)	2,310,000,000	-0.10	0.0	0.000 000
End point	3.40	+23(Ref)	2,309,999,999	-0.70	0.0	0.000 000



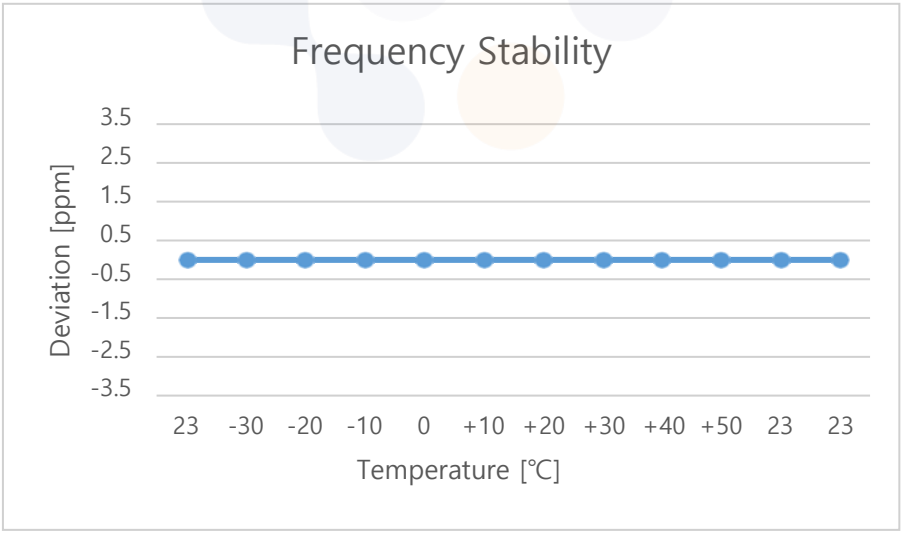
Test mode : NR n41 (PC2)
Frequency (㎐) : 2 592 990 000
Channel : 518598
Deviation limit(FCC) : The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized bands of operation.

Voltage (%)	Power (V)	Temp. (°C)	Frequency (㎐)	Frequency error (㎐)	Deviation	
					(ppm)	(%)
100%	3.85	+23(Ref)	2,592,989,993	-6.80	0.0	0.000 000
		-30	2,592,989,997	-3.11	0.0	0.000 000
		-20	2,592,989,997	-3.01	0.0	0.000 000
		-10	2,592,989,998	-2.34	0.0	0.000 000
		0	2,592,989,994	-5.60	0.0	0.000 000
		+10	2,592,989,997	-3.10	0.0	0.000 000
		+20	2,592,989,993	-6.60	0.0	0.000 000
		+30	2,592,989,995	-5.00	0.0	0.000 000
		+40	2,592,989,996	-4.20	0.0	0.000 000
		+50	2,592,989,999	-1.10	0.0	0.000 000
115%	4.43	+23(Ref)	2,592,989,993	-7.30	0.0	0.000 000
End point	3.40	+23(Ref)	2,592,989,994	-6.30	0.0	0.000 000



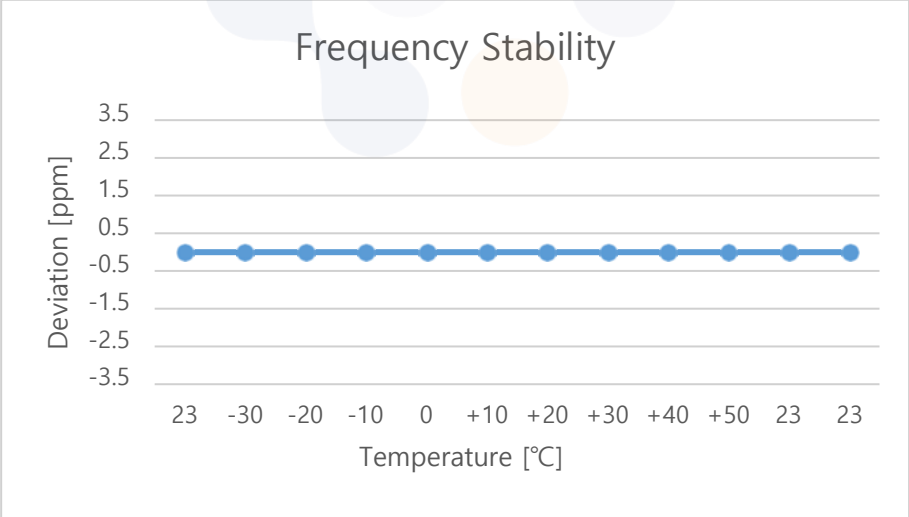
Test mode : NR n41 (PC2 - IC)
Frequency (㎐) : 2 505 000 000
Channel : 501000
Deviation limit(IC) : The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized bands of operation.

Voltage (%)	Power (V)	Temp. (°C)	Frequency (㎐)	Frequency error (㎐)	Deviation	
					(ppm)	(%)
100%	3.85	+23(Ref)	2,504,999,996	-4.00	0.0	0.000 000
		-30	2,505,000,003	2.90	0.0	0.000 000
		-20	2,505,000,003	3.30	0.0	0.000 000
		-10	2,505,000,001	1.10	0.0	0.000 000
		0	2,504,999,997	-2.80	0.0	0.000 000
		+10	2,504,999,999	-1.10	0.0	0.000 000
		+20	2,504,999,997	-3.10	0.0	0.000 000
		+30	2,504,999,996	-4.50	0.0	0.000 000
		+40	2,504,999,997	-3.00	0.0	0.000 000
		+50	2,504,999,994	-6.10	0.0	0.000 000
115%	4.43	+23(Ref)	2,504,999,993	-7.20	0.0	0.000 000
End point	3.40	+23(Ref)	2,504,999,999	-1.50	0.0	0.000 000



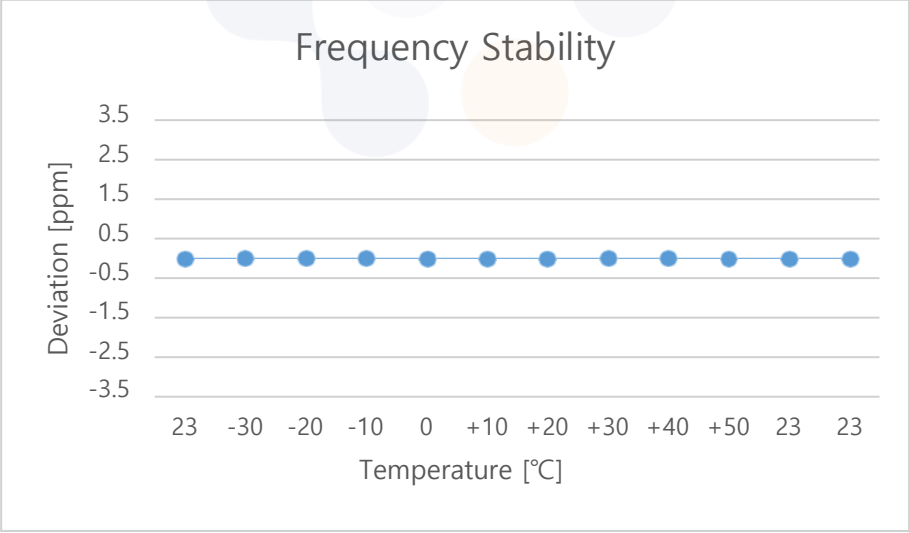
Test mode : NR n66
Frequency (㎐) : 1 745 000 000
Channel : 349000
Deviation limit(FCC&IC) : The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized bands of operation.

Voltage (%)	Power (V)	Temp. (°C)	Frequency (㎐)	Frequency error (㎐)	Deviation	
					(ppm)	(%)
100%	3.85	+23(Ref)	1,745,000,001	1.00	0.0	0.000 000
		-30	1,744,999,999	-1.30	0.0	0.000 000
		-20	1,744,999,999	-0.90	0.0	0.000 000
		-10	1,745,000,001	1.10	0.0	0.000 000
		0	1,745,000,003	3.00	0.0	0.000 000
		+10	1,745,000,002	2.20	0.0	0.000 000
		+20	1,745,000,001	1.10	0.0	0.000 000
		+30	1,745,000,003	3.10	0.0	0.000 000
		+40	1,745,000,003	2.50	0.0	0.000 000
		+50	1,745,000,002	1.80	0.0	0.000 000
115%	4.43	+23(Ref)	1,745,000,001	0.80	0.0	0.000 000
End point	3.40	+23(Ref)	1,745,000,000	0.30	0.0	0.000 000



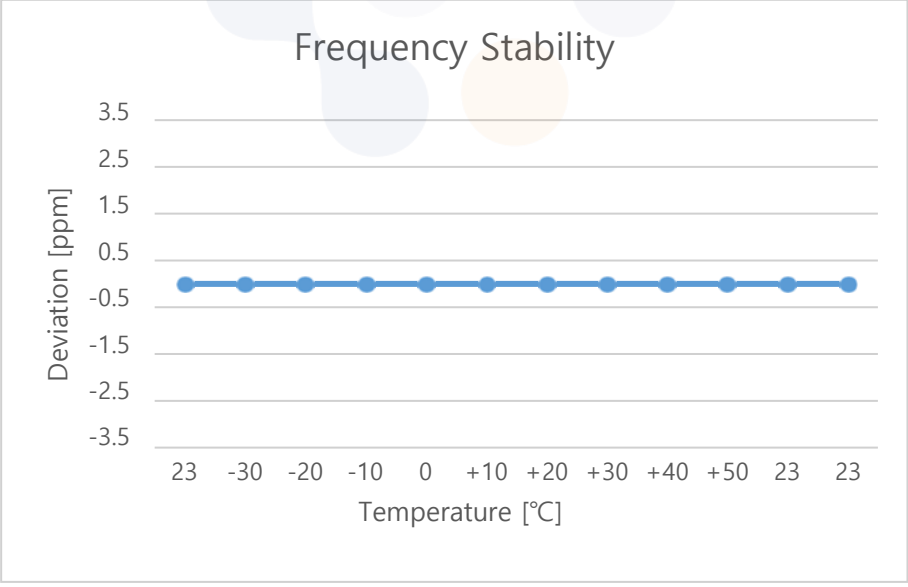
Test mode : NR n71
Frequency (㎐) : 680 500 000
Channel : 136100
Deviation limit(FCC&IC) : The frequency stability shall be sufficient to ensure that the fundamental emission stay within the authorized bands of operation

Voltage (%)	Power (V)	Temp. (°C)	Frequency (㎐)	Frequency error (㎐)	Deviation	
					(ppm)	(%)
100%	3.85	+23(Ref)	680,500,002	1.70	0.0	0.000 000
		-30	680,499,998	-2.40	0.0	0.000 000
		-20	680,499,997	-2.80	0.0	0.000 000
		-10	680,499,998	-1.60	0.0	0.000 000
		0	680,500,002	2.00	0.0	0.000 000
		+10	680,500,002	1.80	0.0	0.000 000
		+20	680,500,001	1.30	0.0	0.000 000
		+30	680,500,001	0.80	0.0	0.000 000
		+40	680,500,000	-0.10	0.0	0.000 000
		+50	680,500,000	-0.40	0.0	0.000 000
115%	4.43	+23(Ref)	680,500,000	0.20	0.0	0.000 000
End point	3.40	+23(Ref)	680,500,001	1.30	0.0	0.000 000



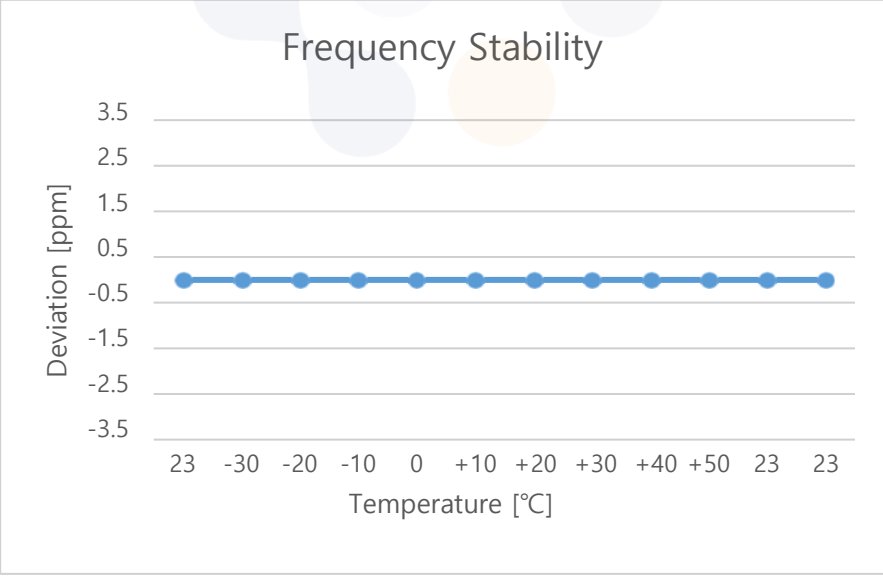
Test mode : NR n77 (Lower)
Frequency (㎐) : 3 500 010 000
Channel : 633334
Deviation limit(FCC&IC) : The frequency stability shall be sufficient to ensure that the fundamental emission stay within the authorized bands of operation

Voltage (%)	Power (V)	Temp. (°C)	Frequency (㎐)	Frequency error (㎐)	Deviation	
					(ppm)	(%)
100%	3.85	+23(Ref)	3,500,009,994	-6.00	0.0	0.000 000
		-30	3,500,009,999	-1.10	0.0	0.000 000
		-20	3,500,009,997	-2.69	0.0	0.000 000
		-10	3,500,009,997	-3.31	0.0	0.000 000
		0	3,500,009,996	-4.00	0.0	0.000 000
		+10	3,500,009,998	-2.28	0.0	0.000 000
		+20	3,500,009,996	-4.10	0.0	0.000 000
		+30	3,500,009,998	-2.20	0.0	0.000 000
		+40	3,500,009,997	-2.90	0.0	0.000 000
		+50	3,500,009,997	-3.09	0.0	0.000 000
115%	4.43	+23(Ref)	3,500,009,997	-3.00	0.0	0.000 000
End point	3.40	+23(Ref)	3,500,009,997	-2.90	0.0	0.000 000



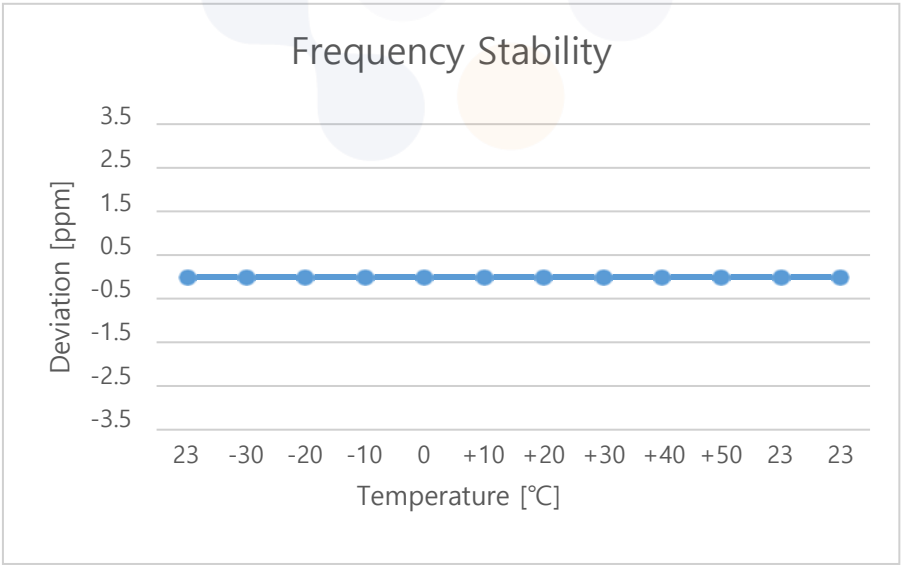
Test mode : NR n77 (Upper)
Frequency (㎐) : 3 840 000 000
Channel : 656000
Deviation limit(FCC&IC) : The frequency stability shall be sufficient to ensure that the fundamental emission stay within the authorized bands of operation

Voltage (%)	Power (V)	Temp. (°C)	Frequency (㎐)	Frequency error (㎐)	Deviation	
					(ppm)	(%)
100%	3.85	+23(Ref)	3,839,999,997	-2.90	0.0	0.000 000
		-30	3,839,999,996	-4.10	0.0	0.000 000
		-20	3,839,999,996	-4.00	0.0	0.000 000
		-10	3,839,999,998	-2.22	0.0	0.000 000
		0	3,839,999,998	-1.58	0.0	0.000 000
		+10	3,839,999,998	-1.90	0.0	0.000 000
		+20	3,839,999,997	-3.00	0.0	0.000 000
		+30	3,839,999,997	-3.10	0.0	0.000 000
		+40	3,839,999,999	-1.25	0.0	0.000 000
		+50	3,839,999,998	-1.69	0.0	0.000 000
115%	4.43	+23(Ref)	3,839,999,998	-2.20	0.0	0.000 000
End point	3.40	+23(Ref)	3,839,999,996	-4.50	0.0	0.000 000



Test mode : NR n77 (IC)
Frequency (㎐) : 3 675 000 000
Channel : 645000
Deviation limit(FCC&IC) : The frequency stability shall be sufficient to ensure that the fundamental emission stay within the authorized bands of operation

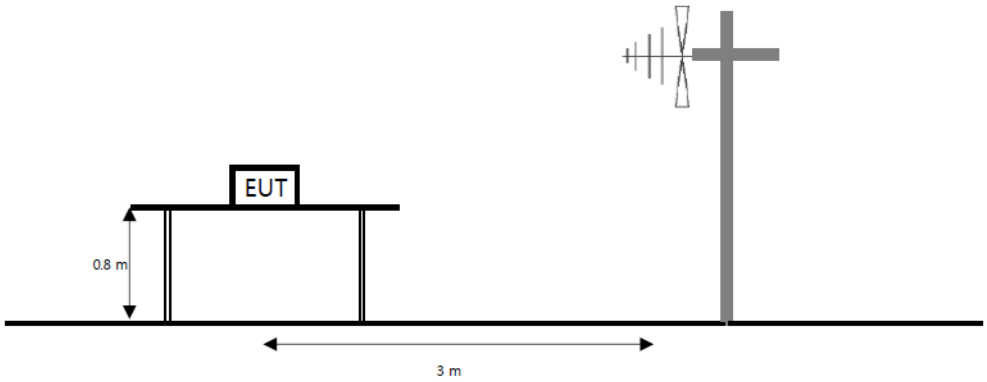
Voltage (%)	Power (V)	Temp. (°C)	Frequency (㎐)	Frequency error (㎐)	Deviation	
					(ppm)	(%)
100%	3.85	+23(Ref)	3,674,999,996	-4.20	0.0	0.000 000
		-30	3,674,999,994	-6.10	0.0	0.000 000
		-20	3,674,999,994	-5.60	0.0	0.000 000
		-10	3,674,999,996	-4.50	0.0	0.000 000
		0	3,674,999,998	-1.90	0.0	0.000 000
		+10	3,674,999,998	-2.40	0.0	0.000 000
		+20	3,674,999,997	-3.30	0.0	0.000 000
		+30	3,674,999,997	-3.50	0.0	0.000 000
		+40	3,674,999,996	-4.10	0.0	0.000 000
		+50	3,674,999,992	-8.00	0.0	0.000 000
115%	4.43	+23(Ref)	3,674,999,999	-1.20	0.0	0.000 000
End point	3.40	+23(Ref)	3,674,999,995	-5.40	0.0	0.000 000



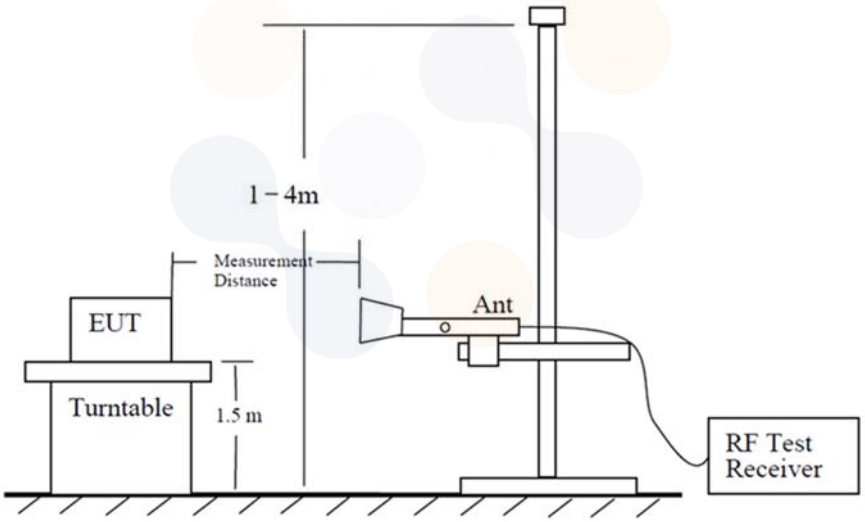
7.7 Radiated Power (ERP/EIRP)

Test setup

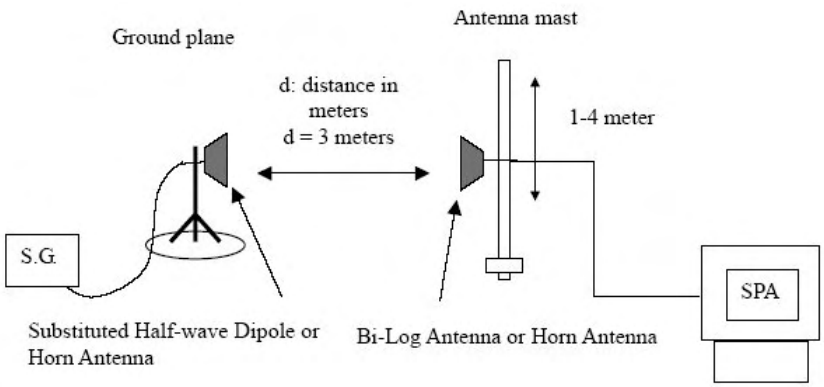
The diagram below shows the test setup that is utilized to make the measurements for emission from 30 ㎒ to 1 ㎓ emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 ㎓ to the tenth harmonic of the highest fundamental frequency or to 40 ㎓ emissions, whichever is lower.



The diagram below shows the test setup for substituted method.



Limit

According to §22.913(a)(5),
the ERP of transmitters in the cellular radiotelephone service must not exceed the limits in this section. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to RSS-132(5.4),
the equivalent radiated power (e.r.p.) shall not exceed 7 watts for mobile equipment and 3 watts for portable equipment.

According to §24.232(c) and RSS-133(6.4),
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.

According to §27.50(a),
The following power limits and related requirements apply to stations transmitting in the 2305-2320 ㎒ band or the 2345-2360 ㎒ band.

(3) Mobile and portable stations.

(i) For mobile and portable stations transmitting in the 2305–2315 ㎒ band or the 2350–2360 ㎒ band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305–2315 ㎒ and 2350–2360 ㎒ bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305–2315 ㎒ band. Power averaging shall not include intervals in which the transmitter is off.

According to §27.50(c)(10) and RSS-130(4.6)
Portable stations (hand-held devices) in the 600 ㎒ uplink band and the 698-746 ㎒ band, and fixed and mobile stations in the 600 ㎒ uplink band are limited to 3 watts ERP.

According to §27.50(d)(4),
Fixed, mobile and portable (hand-held) stations operating in the 1710-1755 ㎒ band and mobile and portable stations operating in the 1695-1710 ㎒ and 1755-1780 ㎒ bands are limited to 1 watt EIRP.

According to RSS-139(5.5),
The equivalent isotropically radiated power (e.i.r.p.) for mobile and portable transmitters shall not exceed one watt. The e.i.r.p. for fixed and base stations in the band 1710-1780 ㎒ shall not exceed one watt(30 dBm e.i.r.p./channel bandwidth).

According to §27.50(h),
Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

According to RSS-199(5.5),
Subscriber equipment other than fixed subscriber equipment shall not exceed an e.i.r.p. of 2W per channel bandwidth.

According to §27.50(j)(3),
The following power requirements apply to stations transmitting in the 3700-3980 ㎒ band:
Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

According to §27.50(k)(3),
The following power requirements apply to stations transmitting in the 3450-3550 ㎒ band:
Mobile devices are limited to 1 Watt (30 ㏈ m) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

According to RSS-192(5.5),
The maximum output power of the equipment measured in terms of average values shall comply with the limits specified in table 1.

Table 1:Maximum power of equipment

Equipment type	Maximum power
Non-ASS: base station (outdoor), fixed P-P station, P-MP hub station	60 ㏈m e.i.r.p/5㎒
AAS: base station (outdoor), P-MP hub station	47 ㏈m TRP/5㎒
Indoor base station	39 ㏈m TRP/channel bandwidth
Fixed subscriber equipment	39 ㏈m e.i.r.p/channel bandwidth
Subscriber equipment other than fixed subscriber equipment	30 ㏈m e.i.r.p/channel bandwidth

Test procedure

971168 D01 v03r01 - Section 5.2 and 5.8
ANSI 63.26-2015 – Section 5.2
ANSI/TIA-603-E-2016 - Section 2.2.17

Test settings

1) RBW = 1 % to 5 % of the OBW.
2) VBW ≥ 3 × RBW.
3) SPAN = 2 × to 3 × the OBW.
4) Number of measurement points in sweep ≥ 2 × span / RBW.
5) Sweep time :
   1) Auto couple, or
   2) ≥ [10 × (number of points in sweep) × (transmission period)] for single sweep (automation-compatible) measurement. Transmission period is the on and off time of the transmitter.
6) Detector = RMS
7) If the EUT can be configured to transmit continuously, then set the trigger to free run.
8) If the EUT cannot be configured to transmit continuously, then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Verify that the sweep time is less than or equal to the transmission burst duration. Time gating can also be used under similar constraints (i.e., configured such that measurement data is collected only during active full -power transmissions).
9) Trace mode = trace averaging (RMS) over 100 sweeps.
10) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function, with the band/channel limits set equal to the OBW band edges. If the instrument does not have a band or channel power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
11) Allow trace to fully stabilize.

Notes:

1. On a test site, the EUT shall be placed at 80 cm 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 turntable is rotated through 360°, and the receiving antenna scans in order to determine the Level of the maximized emission.
4. The test antenna shall be raIC and lowered again through the specified range of height until the maximum signal level is detected by the measuring receiver.
5. The maximum signal level detected by the measuring receiver shall be noted.
6. The EUT was replaced by half-wave dipole (1 ㎓ below) or horn antenna (1 ㎓ above) connected to a signal generator.
   The power is calculated by the following formula;
   Pd(㏈m) = Pg(㏈m) – Cable loss (㏈) + Antenna gain (㏈)
   Note. Pd is the dipole equivalent power and Pg is the generator output power into the substitution antenna.
7. The test antenna shall be raIC and lowered through the specified range of height to ensure that The maximum signal is received.
8. The input signal to the substitution antenna shall be adjusted to the level that produces a level Detected by the measuring corrected for the change of input attenuator setting of the measuring Receiver.
9. The input level to the substitution antenna shall be recorded as power level in ㏈m, corrected for Any change of input attenuator setting of the measuring receiver.
10. The measurement shall be repeated with the test antenna and the substitution antenna Orientated for horizontal polarization.

Test results

Test mode: 5G NR n5 DFT-s-OFDM

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	ERP	
				[V/H]	[dBd]	[dB]	[dBm]	[dBm]	[W]
5	QPSK	Low	1/1	H	3.42	6.13	24.87	22.15	0.164
		Middle	1/1	H	3.45	6.22	26.49	23.72	0.236
		High	1/1	H	3.26	6.24	26.52	23.53	0.225
	16QAM	Low	1/1	H	3.42	6.13	23.77	21.05	0.127
		Middle	1/1	H	3.45	6.22	25.39	22.62	0.183
		High	1/1	H	3.26	6.24	25.50	22.51	0.178
10	QPSK	Low	1/1	H	3.44	6.13	24.30	21.61	0.145
		Middle	1/1	H	3.45	6.22	26.47	23.70	0.234
		High	1/1	H	3.33	6.22	26.59	23.70	0.234
	16QAM	Low	1/1	H	3.44	6.13	23.31	20.62	0.115
		Middle	1/1	H	3.45	6.22	25.28	22.51	0.178
		High	1/1	H	3.33	6.22	25.52	22.63	0.183
15	QPSK	Low	1/1	H	3.45	6.14	24.66	21.97	0.157
		Middle	1/1	H	3.45	6.22	26.43	23.66	0.232
		High	1/1	H	3.41	6.24	26.84	24.00	0.251
	16QAM	Low	1/1	H	3.45	6.14	23.59	20.90	0.123
		Middle	1/1	H	3.45	6.22	25.30	22.53	0.179
		High	1/1	H	3.41	6.24	25.68	22.84	0.192
20	QPSK	Low	1/1	H	3.45	6.19	24.88	22.14	0.164
		Middle	1/1	H	3.45	6.22	26.34	23.57	0.228
		High	1/1	H	3.45	6.25	26.50	23.70	0.234
	16QAM	Low	1/1	H	3.45	6.19	23.76	21.02	0.126
		Middle	1/53	H	3.45	6.22	25.32	22.55	0.180
		High	1/1	H	3.45	6.25	25.56	22.76	0.189

Test mode: 5G NR n12 DFT-s-OFDM

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	ERP	
				[V/H]	[dBd]	[dB]	[dBm]	[dBm]	[W]
5	QPSK	Low	1/23	H	2.57	5.64	26.49	23.41	0.219
		Middle	1/1	H	2.63	5.65	26.04	23.01	0.200
		High	1/1	H	2.62	5.67	26.87	23.81	0.240
	16QAM	Low	1/1	H	2.57	5.64	25.26	22.18	0.165
		Middle	1/1	H	2.63	5.65	25.01	21.98	0.158
		High	1/1	H	2.62	5.67	25.68	22.62	0.183
10	QPSK	Low	1/50	H	2.59	5.65	26.21	23.15	0.207
		Middle	1/1	H	2.63	5.65	26.08	23.05	0.202
		High	1/1	H	2.64	5.65	26.37	23.36	0.217
	16QAM	Low	1/26	H	2.59	5.65	25.22	22.16	0.164
		Middle	1/1	H	2.63	5.65	25.00	21.97	0.157
		High	1/1	H	2.64	5.65	25.53	22.52	0.179
15	QPSK	Low	1/1	H	2.62	5.66	25.94	22.90	0.195
		Middle	1/40	H	2.63	5.65	25.96	22.93	0.196
		High	1/1	H	2.64	5.65	26.26	23.24	0.211
	16QAM	Low	1/1	H	2.62	5.66	24.93	21.89	0.155
		Middle	1/40	H	2.63	5.65	24.92	21.89	0.155
		High	1/1	H	2.64	5.65	24.93	21.91	0.155

Test mode: 5G NR n25/2 DFT-s-OFDM

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
5	QPSK	Low	1/1	H	5.14	9.23	25.67	21.58	0.144
		Middle	1/13	H	5.05	9.33	28.26	23.98	0.250
		High	1/1	H	4.96	9.40	28.14	23.70	0.234
	16QAM	Low	1/13	H	5.14	9.23	24.81	20.72	0.118
		Middle	1/1	H	5.05	9.33	26.82	22.54	0.179
		High	1/13	H	4.96	9.40	27.17	22.73	0.187
10	QPSK	Low	1/26	H	5.14	9.24	26.61	22.50	0.178
		Middle	1/50	H	5.05	9.33	27.16	22.88	0.194
		High	1/1	H	4.97	9.38	27.46	23.05	0.202
	16QAM	Low	1/1	H	5.14	9.24	25.68	21.57	0.144
		Middle	1/50	H	5.05	9.33	26.15	21.87	0.154
		High	1/1	H	4.97	9.38	26.22	21.81	0.152
15	QPSK	Low	1/1	H	5.13	9.25	26.64	22.52	0.179
		Middle	1/1	H	5.05	9.33	27.90	23.62	0.230
		High	1/77	H	4.98	9.36	28.25	23.87	0.244
	16QAM	Low	1/1	H	5.13	9.25	25.53	21.41	0.138
		Middle	1/1	H	5.05	9.33	27.08	22.80	0.191
		High	1/77	H	4.98	9.36	27.18	22.80	0.191
20	QPSK	Low	1/53	H	5.12	9.27	25.32	21.17	0.131
		Middle	1/1	H	5.05	9.33	28.68	24.40	0.275
		High	1/104	H	4.99	9.34	26.41	22.05	0.160
	16QAM	Low	1/53	H	5.12	9.27	24.21	20.06	0.101
		Middle	1/1	H	5.05	9.33	27.42	23.14	0.206
		High	1/104	H	4.99	9.34	25.39	21.03	0.127

Test mode: 5G NR n30 DFT-s-OFDM

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
5	QPSK	Low	1/1	H	5.50	10.47	27.46	22.49	0.177
		Middle	1/1	H	5.51	10.50	27.44	22.45	0.176
		High	1/1	H	5.51	10.47	27.41	22.45	0.176
	16QAM	Low	1/1	H	5.50	10.47	26.47	21.50	0.141
		Middle	1/1	H	5.51	10.50	26.41	21.42	0.139
		High	1/1	H	5.51	10.47	26.37	21.41	0.138
10	QPSK	Low	1/1	H	5.51	10.50	27.35	22.36	0.172
	16QAM	Low	1/1	H	5.51	10.50	26.28	21.29	0.135

Test mode: 5G NR n41 (Power Class 2) DFT-s-OFDM

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
10\	QPSK	Low	1/12	H	6.00	10.87	32.58	27.71	0.590
		Low(IC)	1/1	H	6.01	10.88	32.59	27.72	0.592
		Middle	1/1	H	6.24	11.01	30.68	25.91	0.390
		High	1/1	H	6.48	11.25	29.70	24.93	0.311
	16QAM	Low	1/12	H	6.00	10.87	31.25	26.38	0.435
		Low(IC)	1/1	H	6.01	10.88	31.60	26.73	0.471
		Middle	1/12	H	6.24	11.01	29.48	24.71	0.296
		High	1/1	H	6.48	11.25	28.87	24.10	0.257
15	QPSK	Low	1/36	H	6.01	10.88	32.61	27.74	0.594
		Low(IC)	1/36	H	6.02	10.87	32.87	28.02	0.634
		Middle	1/1	H	6.24	11.01	31.69	26.92	0.492
		High	1/19	H	6.47	11.24	29.74	24.97	0.314
	16QAM	Low	1/1	H	6.01	10.88	31.69	26.82	0.481
		Low(IC)	1/1	H	6.02	10.87	32.11	27.26	0.532
		Middle	1/1	H	6.24	11.01	30.32	25.55	0.359
		High	1/19	H	6.47	11.24	28.65	23.88	0.244
20	QPSK	Low	1/1	H	6.02	10.89	32.81	27.94	0.622
		Low(IC)	1/26	H	6.03	10.88	33.19	28.34	0.682
		Middle	1/1	H	6.24	11.01	31.65	26.88	0.488
		High	1/49	H	6.47	11.25	30.60	25.82	0.382
	16QAM	Low	1/1	H	6.02	10.89	31.45	26.58	0.455
		Low(IC)	1/26	H	6.03	10.88	31.93	27.08	0.511
		Middle	1/1	H	6.24	11.01	30.05	25.28	0.337
		High	1/49	H	6.47	11.25	29.30	24.52	0.283
30	QPSK	Low	1/39	H	6.03	10.88	33.42	28.57	0.719
		Low(IC)	1/1	H	6.04	10.89	33.38	28.53	0.713
		Middle	1/1	H	6.24	11.01	31.42	26.65	0.462
		High	1/1	H	6.45	11.24	29.70	24.91	0.310
	16QAM	Low	1/39	H	6.03	10.88	32.14	27.29	0.536
		Low(IC)	1/1	H	6.04	10.89	32.37	27.52	0.565
		Middle	1/1	H	6.24	11.01	30.42	25.65	0.367
		High	1/1	H	6.45	11.24	28.38	23.59	0.229
40	QPSK	Low	1/1	H	6.04	10.89	32.47	27.62	0.578
		Low(IC)	1/1	H	6.05	10.90	32.48	27.63	0.579
		Middle	1/1	H	6.24	11.01	31.10	26.33	0.430
		High	1/1	H	6.44	11.23	29.80	25.01	0.317
	16QAM	Low	1/1	H	6.04	10.89	31.63	26.78	0.476
		Low(IC)	1/1	H	6.05	10.90	31.54	26.69	0.467
		Middle	1/1	H	6.24	11.01	29.54	24.77	0.300
		High	1/1	H	6.44	11.23	28.36	23.57	0.228
50	QPSK	Low	1/1	H	6.05	10.90	33.76	28.91	0.778
		Low(IC)	1/1	H	6.07	10.91	33.13	28.28	0.673
		Middle	1/1	H	6.24	11.01	31.51	26.74	0.472
		High	1/131	H	6.43	11.23	29.87	25.07	0.321
	16QAM	Low	1/1	H	6.05	10.90	32.79	27.94	0.622
		Low(IC)	1/1	H	6.07	10.91	32.03	27.18	0.522
		Middle	1/1	H	6.24	11.01	30.15	25.38	0.345
		High	1/131	H	6.43	11.23	28.36	23.56	0.227

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
60	QPSK	Low	1/1	H	6.07	10.91	33.61	28.76	0.752
		Low(IC)	1/1	H	6.08	10.92	33.22	28.38	0.689
		Middle	1/160	H	6.24	11.01	30.63	25.86	0.385
		High	1/81	H	6.42	11.22	30.72	25.92	0.391
	16QAM	Low	1/1	H	6.07	10.91	32.66	27.81	0.604
		Low(IC)	1/1	H	6.08	10.92	32.39	27.55	0.569
		Middle	1/160	H	6.24	11.01	29.88	25.11	0.324
		High	1/160	H	6.42	11.22	29.30	24.50	0.282
70	QPSK	Low	1/1	H	6.08	10.92	33.27	28.43	0.697
		Low(IC)	1/1	H	6.09	10.94	33.41	28.56	0.718
		Middle	1/1	H	6.24	11.01	31.19	26.42	0.439
		High	1/95	H	6.40	11.21	30.49	25.68	0.370
	16QAM	Low	1/1	H	6.08	10.92	32.23	27.39	0.548
		Low(IC)	1/1	H	6.09	10.94	32.50	27.65	0.582
		Middle	1/1	H	6.24	11.01	29.85	25.08	0.322
		High	1/95	H	6.40	11.21	29.01	24.20	0.263
80	QPSK	Low	1/1	H	6.09	10.94	33.42	28.57	0.719
		Low(IC)	1/1	H	6.10	10.95	33.74	28.89	0.774
		Middle	1/1	H	6.24	11.01	31.64	26.87	0.486
		High	1/215	H	6.39	11.21	30.31	25.49	0.354
	16QAM	Low	1/1	H	6.09	10.94	32.35	27.50	0.562
		Low(IC)	1/1	H	6.10	10.95	32.57	27.72	0.592
		Middle	1/1	H	6.24	11.01	30.57	25.80	0.380
		High	1/215	H	6.39	11.21	29.47	24.65	0.292
90	QPSK	Low	1/123	H	6.11	10.95	33.45	28.60	0.724
		Low(IC)	1/1	H	6.12	10.96	33.70	28.86	0.769
		Middle	1/1	H	6.24	11.01	30.69	25.92	0.391
		High	1/1	H	6.38	11.20	29.54	24.72	0.296
	16QAM	Low	1/1	H	6.11	10.95	32.39	27.54	0.568
		Low(IC)	1/1	H	6.12	10.96	32.82	27.98	0.628
		Middle	1/1	H	6.24	11.01	29.78	25.01	0.317
		High	1/1	H	6.38	11.20	28.39	23.57	0.228
100	QPSK	Low	1/1	H	6.12	10.96	32.89	28.05	0.638
		Low(IC)	1/1	H	6.13	10.97	33.66	28.82	0.762
		Middle	1/1	H	6.24	11.01	30.14	25.37	0.344
		High	1/271	H	6.36	11.19	30.45	25.62	0.365
	16QAM	Low	1/1	H	6.12	10.96	31.69	26.85	0.484
		Low(IC)	1/1	H	6.13	10.97	32.22	27.38	0.547
		Middle	1/1	H	6.24	11.01	29.21	24.44	0.278
		High	1/271	H	6.36	11.19	29.46	24.63	0.290

Test mode: 5G NR n66 DFT-s-OFDM

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
5	QPSK	Low	1/1	H	5.56	8.86	27.19	23.89	0.245
		Middle	1/1	H	5.47	8.93	27.29	23.82	0.241
		High	1/1	H	5.37	9.11	27.06	23.32	0.215
	16QAM	Low	1/1	H	5.56	8.86	26.34	23.04	0.201
		Middle	1/1	H	5.47	8.93	26.46	22.99	0.199
		High	1/1	H	5.37	9.11	25.87	22.13	0.163
10	QPSK	Low	1/50	H	5.56	8.87	27.17	23.85	0.243
		Middle	1/50	H	5.47	8.93	27.48	24.01	0.252
		High	1/26	H	5.38	9.08	27.18	23.47	0.222
	16QAM	Low	1/50	H	5.56	8.87	26.39	23.07	0.203
		Middle	1/50	H	5.47	8.93	26.65	23.18	0.208
		High	1/26	H	5.38	9.08	26.25	22.54	0.179
15	QPSK	Low	1/77	H	5.55	8.88	27.29	23.96	0.249
		Middle	1/40	H	5.47	8.93	27.16	23.69	0.234
		High	1/40	H	5.38	9.07	27.24	23.55	0.226
	16QAM	Low	1/77	H	5.55	8.88	26.42	23.09	0.204
		Middle	1/40	H	5.47	8.93	26.39	22.92	0.196
		High	1/77	H	5.38	9.07	26.40	22.71	0.187
20	QPSK	Low	1/53	H	5.54	8.88	27.71	24.37	0.274
		Middle	1/53	H	5.47	8.93	27.05	23.58	0.228
		High	1/104	H	5.39	9.07	28.10	24.42	0.277
	16QAM	Low	1/53	H	5.54	8.88	26.72	23.38	0.218
		Middle	1/1	H	5.47	8.93	25.91	22.44	0.175
		High	1/104	H	5.39	9.07	27.16	23.48	0.223
25	QPSK	Low	1/1	H	5.53	8.89	28.03	24.67	0.293
		Middle	1/1	H	5.47	8.93	26.24	22.77	0.189
		High	1/131	H	5.40	9.01	27.56	23.94	0.248
	16QAM	Low	1/1	H	5.53	8.89	27.21	23.85	0.243
		Middle	1/1	H	5.47	8.93	25.33	21.86	0.153
		High	1/131	H	5.40	9.01	26.82	23.20	0.209
30	QPSK	Low	1/80	H	5.53	8.90	26.90	23.53	0.225
		Middle	1/80	H	5.47	8.93	26.51	23.04	0.201
		High	1/1	H	5.41	9.01	29.65	26.05	0.403
	16QAM	Low	1/1	H	5.53	8.90	26.23	22.86	0.193
		Middle	1/80	H	5.47	8.93	25.56	22.09	0.162
		High	1/1	H	5.41	9.01	28.80	25.20	0.331
40	QPSK	Low	1/1	H	5.51	8.92	25.82	22.41	0.174
		Middle	1/1	H	5.47	8.93	26.59	23.12	0.205
		High	1/1	H	5.42	8.99	28.38	24.81	0.303
	16QAM	Low	1/1	H	5.51	8.92	24.78	21.37	0.137
		Middle	1/1	H	5.47	8.93	25.52	22.05	0.160
		High	1/1	H	5.42	8.99	27.59	24.02	0.252

Test mode: 5G NR n71 DFT-s-OFDM

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	ERP	
				[V/H]	[dBd]	[dB]	[dBm]	[dBm]	[W]
5	QPSK	Low	1/1	H	3.14	5.50	22.61	20.25	0.106
		Middle	1/1	H	2.84	5.53	22.55	19.85	0.097
		High	1/13	H	2.55	5.59	22.61	19.57	0.091
	16QAM	Low	1/1	H	3.14	5.50	21.63	19.27	0.085
		Middle	1/1	H	2.84	5.53	21.47	18.77	0.075
		High	1/13	H	2.55	5.59	21.41	18.37	0.069
10	QPSK	Low	1/1	H	3.09	5.51	22.31	19.89	0.097
		Middle	1/1	H	2.84	5.53	22.51	19.81	0.096
		High	1/50	H	2.55	5.60	22.03	18.98	0.079
	16QAM	Low	1/1	H	3.09	5.51	21.37	18.95	0.079
		Middle	1/1	H	2.84	5.53	21.46	18.76	0.075
		High	1/50	H	2.55	5.60	21.03	17.98	0.063
15	QPSK	Low	1/1	H	3.04	5.51	22.66	20.19	0.104
		Middle	1/1	H	2.84	5.53	22.68	19.98	0.100
		High	1/1	H	2.55	5.59	22.55	19.51	0.089
	16QAM	Low	1/1	H	3.04	5.51	21.64	19.17	0.083
		Middle	1/1	H	2.84	5.53	21.59	18.89	0.077
		High	1/1	H	2.55	5.59	21.50	18.46	0.070
20	QPSK	Low	1/1	H	2.99	5.52	22.73	20.20	0.105
		Middle	1/1	H	2.84	5.53	22.70	20.00	0.100
		High	1/1	H	2.61	5.58	22.79	19.82	0.096
	16QAM	Low	1/1	H	2.99	5.52	21.68	19.15	0.082
		Middle	1/1	H	2.84	5.53	21.68	18.98	0.079
		High	1/1	H	2.61	5.58	21.58	18.61	0.073

Test mode: 5G NR n77(Lower)(Power Class 2) DFT-s-OFDM

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
10	QPSK	Low	1/12	H	8.21	12.18	30.73	26.76	0.474
		Middle	1/1	H	8.30	12.23	31.57	27.64	0.581
		High	1/1	H	8.38	12.28	31.95	28.05	0.638
	16QAM	Low	1/12	H	8.21	12.18	29.65	25.68	0.370
		Middle	1/1	H	8.30	12.23	30.61	26.68	0.466
		High	1/1	H	8.38	12.28	30.74	26.84	0.483
15	QPSK	Low	1/19	H	8.39	12.29	31.19	27.29	0.536
		Middle	1/1	H	8.30	12.23	31.76	27.83	0.607
		High	1/1	H	8.38	12.28	32.14	28.23	0.665
	16QAM	Low	1/19	H	8.39	12.29	29.92	26.02	0.400
		Middle	1/1	H	8.30	12.23	30.69	26.76	0.474
		High	1/1	H	8.38	12.28	30.75	26.84	0.483
20	QPSK	Low	1/49	H	8.22	12.18	30.18	26.22	0.419
		Middle	1/1	H	8.30	12.23	31.00	27.07	0.509
		High	1/49	H	8.37	12.28	31.27	27.36	0.545
	16QAM	Low	1/49	H	8.22	12.18	29.25	25.29	0.338
		Middle	1/49	H	8.30	12.23	30.09	26.16	0.413
		High	1/49	H	8.37	12.28	30.22	26.31	0.428
25	QPSK	Low	1/63	H	8.23	12.19	30.37	26.41	0.438
		Middle	1/33	H	8.30	12.23	30.82	26.89	0.489
		High	1/33	H	8.37	12.28	31.77	27.86	0.611
	16QAM	Low	1/63	H	8.23	12.19	29.50	25.54	0.358
		Middle	1/33	H	8.30	12.23	29.99	26.06	0.404
		High	1/33	H	8.37	12.28	30.78	26.87	0.486
30	QPSK	Low	1/76	H	8.23	12.19	29.40	25.44	0.350
		Middle	1/76	H	8.30	12.23	30.31	26.38	0.435
		High	1/1	H	8.36	12.27	30.89	26.98	0.499
	16QAM	Low	1/76	H	8.23	12.19	28.35	24.39	0.275
		Middle	1/76	H	8.30	12.23	28.72	24.79	0.301
		High	1/1	H	8.36	12.27	29.36	25.45	0.351
40	QPSK	Low	1/104	H	8.24	12.20	30.81	26.85	0.484
		Middle	1/1	H	8.30	12.23	31.23	27.30	0.537
		High	1/1	H	8.35	12.27	31.35	27.44	0.555
	16QAM	Low	1/104	H	8.24	12.20	29.44	25.48	0.353
		Middle	1/104	H	8.30	12.23	29.47	25.54	0.358
		High	1/1	H	8.35	12.27	30.55	26.64	0.461
50	QPSK	Low	1/67	H	8.25	12.20	31.27	27.32	0.540
		Middle	1/1	H	8.30	12.23	31.49	27.56	0.570
		High	1/67	H	8.35	12.26	31.85	27.93	0.621
	16QAM	Low	1/67	H	8.25	12.20	30.08	26.13	0.410
		Middle	1/1	H	8.30	12.23	30.43	26.50	0.447
		High	1/67	H	8.35	12.26	30.63	26.71	0.469
60	QPSK	Low	1/81	H	8.26	12.21	30.49	26.54	0.451
		Middle	1/1	H	8.30	12.23	31.14	27.21	0.526
		High	1/81	H	8.34	12.25	31.11	27.19	0.524
	16QAM	Low	1/81	H	8.26	12.21	29.50	25.55	0.359
		Middle	1/1	H	8.30	12.23	29.72	25.79	0.379
		High	1/81	H	8.34	12.25	30.06	26.14	0.411

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
70	QPSK	Low	1/187	H	8.27	12.21	30.50	26.56	0.453
		Middle	1/1	H	8.30	12.23	30.77	26.84	0.483
		High	1/95	H	8.33	12.25	31.22	27.30	0.537
	16QAM	Low	1/187	H	8.27	12.21	29.95	26.01	0.399
		Middle	1/1	H	8.30	12.23	29.66	25.73	0.374
		High	1/95	H	8.33	12.25	30.43	26.51	0.448
80	QPSK	Low	1/215	H	8.28	12.22	30.42	26.48	0.445
		Middle	1/215	H	8.30	12.23	30.16	26.23	0.420
		High	1/109	H	8.32	12.24	31.21	27.29	0.536
	16QAM	Low	1/215	H	8.28	12.22	29.44	25.50	0.355
		Middle	1/215	H	8.30	12.23	29.00	25.07	0.321
		High	1/109	H	8.32	12.24	30.37	26.45	0.442
90	QPSK	Low	1/123	H	8.29	12.23	30.43	26.49	0.446
		Middle	1/1	H	8.30	12.23	30.36	26.43	0.440
		High	1/123	H	8.31	12.24	30.84	26.91	0.491
	16QAM	Low	1/123	H	8.29	12.23	29.72	25.78	0.378
		Middle	1/1	H	8.30	12.23	29.71	25.78	0.378
		High	1/123	H	8.31	12.24	29.88	25.95	0.394
100	QPSK	Low	1/137	H	8.30	12.23	30.15	26.22	0.419
	16QAM	Low	1/137	H	8.30	12.23	28.96	25.03	0.318

Test mode: 5G NR n77(Lower)(Power Class 2)(SRS1)

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
40	QPSK	Low	1/1	H	8.24	12.20	13.91	9.95	0.010
		Middle	1/1	H	8.30	12.23	13.16	9.23	0.008
		High	1/1	H	8.35	12.27	14.40	10.49	0.011

Test mode: 5G NR n77(Lower)(Power Class 2)(SRS2)

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
100	QPSK	Middle	1/137	H	8.30	12.23	15.24	11.31	0.014

Test mode: 5G NR n77(Lower)(Power Class 2)(SRS3)

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
80	QPSK	Low	1/109	H	8.28	12.22	17.08	13.14	0.021
		Middle	1/109	H	8.30	12.23	17.12	13.19	0.021
		High	1/109	H	8.32	12.24	17.79	13.87	0.024

Test mode: 5G NR n77(Upper)(Power Class 2) DFT-s-OFDM

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
10	QPSK	Low	1/1	H	8.67	12.48	31.89	28.08	0.643
		Middle	1/1	H	8.91	12.62	31.54	27.83	0.607
		High	1/1	H	9.16	12.78	32.16	28.53	0.713
	16QAM	Low	1/1	H	8.67	12.48	30.72	26.91	0.491
		Middle	1/1	H	8.91	12.62	29.69	25.98	0.396
		High	1/1	H	9.16	12.78	30.82	27.19	0.524
15	QPSK	Low	1/19	H	8.67	12.48	31.06	27.25	0.531
		Middle	1/1	H	8.91	12.62	31.72	28.01	0.632
		High	1/19	H	8.83	12.35	33.12	29.59	0.910
	16QAM	Low	1/19	H	8.67	12.48	29.90	26.09	0.406
		Middle	1/1	H	8.91	12.62	30.36	26.65	0.462
		High	1/19	H	8.83	12.35	31.49	27.96	0.625
20	QPSK	Low	1/26	H	8.68	12.49	31.52	27.71	0.590
		Middle	1/26	H	8.91	12.62	31.51	27.80	0.603
		High	1/26	H	9.15	12.77	32.86	29.24	0.839
	16QAM	Low	1/26	H	8.68	12.49	30.08	26.27	0.424
		Middle	1/26	H	8.91	12.62	30.60	26.89	0.489
		High	1/26	H	9.15	12.77	32.45	28.83	0.764
25	QPSK	Low	1/63	H	8.68	12.49	32.90	29.09	0.811
		Middle	1/63	H	8.91	12.62	32.13	28.42	0.695
		High	1/1	H	9.14	12.76	32.88	29.26	0.843
	16QAM	Low	1/63	H	8.68	12.49	31.93	28.12	0.649
		Middle	1/63	H	8.91	12.62	31.37	27.66	0.583
		High	1/1	H	9.14	12.76	31.74	28.12	0.649
30	QPSK	Low	1/1	H	8.69	12.49	31.52	27.71	0.590
		Middle	1/39	H	8.91	12.62	31.08	27.37	0.546
		High	1/1	H	9.14	12.75	32.68	29.06	0.805
	16QAM	Low	1/39	H	8.69	12.49	30.58	26.77	0.475
		Middle	1/1	H	8.91	12.62	30.24	26.53	0.450
		High	1/1	H	9.14	12.75	31.10	27.48	0.560
40	QPSK	Low	1/53	H	8.70	12.50	31.37	27.56	0.570
		Middle	1/1	H	8.91	12.62	31.37	27.66	0.583
		High	1/1	H	9.13	12.74	31.80	28.19	0.659
	16QAM	Low	1/53	H	8.70	12.50	30.71	26.90	0.490
		Middle	1/1	H	8.91	12.62	30.13	26.42	0.439
		High	1/1	H	9.13	12.74	30.83	27.22	0.527
50	QPSK	Low	1/1	H	8.71	12.51	30.45	26.65	0.462
		Middle	1/131	H	8.91	12.62	31.38	27.67	0.585
		High	1/67	H	9.12	12.72	31.98	28.37	0.687
	16QAM	Low	1/1	H	8.71	12.51	29.46	25.66	0.368
		Middle	1/131	H	8.91	12.62	30.53	26.82	0.481
		High	1/67	H	9.12	12.72	30.91	27.30	0.537
60	QPSK	Low	1/81	H	8.71	12.52	30.51	26.71	0.469
		Middle	1/160	H	8.91	12.62	31.34	27.63	0.579
		High	1/1	H	9.11	12.76	31.36	27.71	0.590
	16QAM	Low	1/81	H	8.71	12.52	29.46	25.66	0.368
		Middle	1/160	H	8.91	12.62	30.40	26.69	0.467
		High	1/1	H	9.11	12.76	30.54	26.89	0.489

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
70	QPSK	Low	1/1	H	8.72	12.52	30.35	26.55	0.452
		Middle	1/187	H	8.91	12.62	31.27	27.56	0.570
		High	1/187	H	9.10	12.75	31.63	27.98	0.628
	16QAM	Low	1/1	H	8.72	12.52	29.59	25.79	0.379
		Middle	1/187	H	8.91	12.62	30.42	26.71	0.469
		High	1/187	H	9.10	12.75	30.77	27.12	0.515
80	QPSK	Low	1/215	H	8.73	12.53	30.73	26.93	0.493
		Middle	1/215	H	8.91	12.62	31.09	27.38	0.547
		High	1/1	H	9.09	12.74	31.88	28.24	0.667
	16QAM	Low	1/215	H	8.73	12.53	29.53	25.73	0.374
		Middle	1/215	H	8.91	12.62	29.96	26.25	0.422
		High	1/1	H	9.09	12.74	31.17	27.53	0.566
90	QPSK	Low	1/243	H	8.74	12.54	30.71	26.91	0.491
		Middle	1/243	H	8.91	12.62	31.23	27.52	0.565
		High	1/243	H	9.08	12.72	31.00	27.36	0.545
	16QAM	Low	1/243	H	8.74	12.54	29.84	26.04	0.402
		Middle	1/243	H	8.91	12.62	30.30	26.59	0.456
		High	1/243	H	9.08	12.72	29.94	26.30	0.427
100	QPSK	Low	1/137	H	8.75	12.22	30.60	27.13	0.516
		Middle	1/1	H	8.91	12.62	30.93	27.22	0.527
		High	1/137	H	9.07	12.71	31.79	28.15	0.653
	16QAM	Low	1/137	H	8.75	12.22	29.75	26.28	0.425
		Middle	1/1	H	8.91	12.62	29.84	26.13	0.410
		High	1/137	H	9.07	12.71	30.48	26.84	0.483

Test mode: 5G NR n77(Upper)(Power Class 2)(SRS1)

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
100	QPSK	Low	1/1	H	8.75	12.22	15.09	11.62	0.015
		Middle	1/1	H	8.91	12.62	16.15	12.44	0.018
		High	1/1	H	9.07	12.71	18.32	14.68	0.029

Test mode: 5G NR n77(Upper)(Power Class 2)(SRS2)

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
90	QPSK	Low	1/243	H	8.74	12.54	16.06	12.26	0.017
		Middle	1/243	H	8.91	12.62	15.73	12.02	0.016
		High	1/243	H	9.08	12.72	14.52	10.88	0.012

Test mode: 5G NR n77(Upper)(Power Class 2)(SRS3)

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
100	QPSK	Low	1/1	H	8.75	12.22	22.26	18.79	0.076
		Middle	1/1	H	8.91	12.62	20.18	16.47	0.044
		High	1/1	H	9.07	12.71	18.86	15.22	0.033

Test mode: 5G NR n77(IC)(Power Class 2) DFT-s-OFDM

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
10	QPSK	Low	1/12	H	8.21	12.18	30.73	26.76	0.474
		Middle	1/12	H	8.62	12.30	29.66	25.98	0.396
		High	1/1	H	9.01	13.07	33.02	28.96	0.787
	16QAM	Low	1/12	H	8.21	12.18	29.65	25.68	0.370
		Middle	1/12	H	8.62	12.30	28.34	24.66	0.292
		High	1/1	H	9.01	13.07	31.47	27.41	0.551
15	QPSK	Low	1/19	H	8.22	12.18	31.26	27.29	0.536
		Middle	1/36	H	8.62	12.30	30.84	27.16	0.520
		High	1/1	H	9.01	13.06	33.22	29.16	0.824
	16QAM	Low	1/19	H	8.22	12.18	29.99	26.02	0.400
		Middle	1/36	H	8.62	12.30	30.08	26.40	0.437
		High	1/1	H	9.01	13.06	31.72	27.66	0.583
20	QPSK	Low	1/49	H	8.22	12.18	30.18	26.22	0.419
		Middle	1/1	H	8.62	12.30	30.80	27.12	0.515
		High	1/26	H	9.00	13.06	32.00	27.94	0.622
	16QAM	Low	1/49	H	8.22	12.18	29.25	25.29	0.338
		Middle	1/1	H	8.62	12.30	30.11	26.43	0.440
		High	1/26	H	9.00	13.06	31.00	26.94	0.494
25	QPSK	Low	1/63	H	8.23	12.19	30.37	26.41	0.438
		Middle	1/63	H	8.62	12.30	31.78	28.10	0.646
		High	1/1	H	9.00	13.06	32.98	28.92	0.780
	16QAM	Low	1/63	H	8.23	12.19	29.50	25.54	0.358
		Middle	1/33	H	8.62	12.30	31.04	27.36	0.545
		High	1/1	H	9.00	13.06	32.08	28.02	0.634
30	QPSK	Low	1/76	H	8.23	12.19	30.87	26.91	0.491
		Middle	1/1	H	8.62	12.30	30.53	26.85	0.484
		High	1/1	H	8.99	13.06	33.40	29.33	0.857
	16QAM	Low	1/76	H	8.23	12.19	29.40	25.44	0.350
		Middle	1/1	H	8.62	12.30	29.13	25.45	0.351
		High	1/1	H	8.99	13.06	32.76	28.69	0.740
40	QPSK	Low	1/104	H	8.24	12.20	30.81	26.85	0.484
		Middle	1/1	H	8.62	12.30	30.18	26.50	0.447
		High	1/104	H	8.98	13.06	32.89	28.82	0.762
	16QAM	Low	1/104	H	8.24	12.20	29.44	25.48	0.353
		Middle	1/53	H	8.62	12.30	28.81	25.13	0.326
		High	1/104	H	8.98	13.06	32.26	28.19	0.659
50	QPSK	Low	1/67	H	8.25	12.20	31.27	27.32	0.540
		Middle	1/1	H	8.62	12.30	29.84	26.16	0.413
		High	1/67	H	8.97	13.05	32.12	28.04	0.637
	16QAM	Low	1/67	H	8.25	12.20	30.08	26.13	0.410
		Middle	1/1	H	8.62	12.30	28.86	25.18	0.330
		High	1/67	H	8.97	13.05	31.09	27.01	0.502
60	QPSK	Low	1/81	H	8.26	12.21	30.49	26.54	0.451
		Middle	1/160	H	8.62	12.30	29.59	25.91	0.390
		High	1/81	H	8.97	13.05	32.73	28.64	0.731
	16QAM	Low	1/81	H	8.26	12.21	29.50	25.55	0.359
		Middle	1/160	H	8.62	12.30	28.44	24.76	0.299
		High	1/81	H	8.97	13.05	31.50	27.41	0.551

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
70	QPSK	Low	1/187	H	8.27	12.21	30.50	26.56	0.453
		Middle	1/187	H	8.62	12.30	30.19	26.51	0.448
		High	1/187	H	8.96	13.05	32.21	28.12	0.649
	16QAM	Low	1/187	H	8.27	12.21	29.95	26.01	0.399
		Middle	1/187	H	8.62	12.30	29.77	26.09	0.406
		High	1/187	H	8.96	13.05	31.46	27.37	0.546
80	QPSK	Low	1/215	H	8.28	12.22	30.42	26.48	0.445
		Middle	1/215	H	8.62	12.30	29.46	25.78	0.378
		High	1/215	H	8.95	13.05	31.75	27.65	0.582
	16QAM	Low	1/215	H	8.28	12.22	29.44	25.50	0.355
		Middle	1/215	H	8.62	12.30	28.49	24.81	0.303
		High	1/215	H	8.95	13.05	31.05	26.95	0.495
90	QPSK	Low	1/123	H	8.29	12.23	30.43	26.49	0.446
		Middle	1/1	H	8.62	12.30	29.78	26.10	0.407
		High	1/243	H	8.94	13.04	31.68	27.58	0.573
	16QAM	Low	1/123	H	8.29	12.23	29.72	25.78	0.378
		Middle	1/1	H	8.62	12.30	28.76	25.08	0.322
		High	1/243	H	8.94	13.04	31.09	26.99	0.500
100	QPSK	Low	1/137	H	8.30	12.23	30.15	26.22	0.419
		Middle	1/1	H	8.62	12.30	30.40	26.72	0.470
		High	1/271	H	8.93	12.64	30.77	27.06	0.508
	16QAM	Low	1/137	H	8.30	12.23	28.96	25.03	0.318
		Middle	1/1	H	8.62	12.30	29.68	26.00	0.398
		High	1/271	H	8.93	12.64	29.72	26.01	0.399

Test mode: 5G NR n77(IC)(Power Class 2)(SRS1)

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
100	QPSK	Low	1/1	H	8.30	12.23	14.72	10.79	0.012
		Middle	1/1	H	8.62	12.30	15.45	11.77	0.015
		High	1/1	H	8.93	12.64	16.16	12.45	0.018

Test mode: 5G NR n77(IC)(Power Class 2)(SRS2)

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
100	QPSK	Low	1/137	H	8.30	12.23	12.09	8.16	0.007
		Middle	1/137	H	8.62	12.30	13.22	9.54	0.009
		High	1/137	H	8.93	12.64	14.76	11.05	0.013

Test mode: 5G NR n77(IC)(Power Class 2)(SRS3)

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
100	QPSK	Low	1/1	H	8.30	12.23	16.21	12.28	0.017
		Middle	1/1	H	8.62	12.30	19.66	15.98	0.040
		High	1/1	H	8.93	12.64	19.11	15.40	0.035

Test mode: 5G NR n77(Lower)(Power Class 3) DFT-s-OFDM

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
10	QPSK	Low	1/1	H	8.21	12.18	28.60	24.63	0.290
		Middle	1/1	H	8.30	12.23	28.78	24.85	0.305
		High	1/12	H	8.38	12.28	29.57	25.67	0.369
	16QAM	Low	1/1	H	8.21	12.18	27.63	23.66	0.232
		Middle	1/1	H	8.30	12.23	27.60	23.67	0.233
		High	1/12	H	8.38	12.28	28.42	24.52	0.283
15	QPSK	Low	1/19	H	8.39	12.29	29.07	25.17	0.329
		Middle	1/1	H	8.30	12.23	28.87	24.94	0.312
		High	1/19	H	8.38	12.28	29.33	25.42	0.348
	16QAM	Low	1/19	H	8.39	12.29	27.92	24.02	0.252
		Middle	1/1	H	8.30	12.23	27.31	23.38	0.218
		High	1/1	H	8.38	12.28	28.68	24.77	0.300
20	QPSK	Low	1/1	H	8.22	12.18	27.53	23.57	0.228
		Middle	1/49	H	8.30	12.23	28.65	24.72	0.296
		High	1/49	H	8.37	12.28	29.42	25.51	0.356
	16QAM	Low	1/1	H	8.22	12.18	26.75	22.79	0.190
		Middle	1/49	H	8.30	12.23	27.52	23.59	0.229
		High	1/49	H	8.37	12.28	28.17	24.26	0.267
25	QPSK	Low	1/63	H	8.23	12.19	27.76	23.80	0.240
		Middle	1/1	H	8.30	12.23	28.33	24.40	0.275
		High	1/33	H	8.37	12.28	28.87	24.96	0.313
	16QAM	Low	1/1	H	8.23	12.19	26.88	22.92	0.196
		Middle	1/1	H	8.30	12.23	27.44	23.51	0.224
		High	1/33	H	8.37	12.28	27.98	24.07	0.255
30	QPSK	Low	1/76	H	8.23	12.19	28.31	24.35	0.272
		Middle	1/76	H	8.30	12.23	29.05	25.12	0.325
		High	1/1	H	8.36	12.27	29.90	25.99	0.397
	16QAM	Low	1/76	H	8.23	12.19	27.18	23.22	0.210
		Middle	1/76	H	8.30	12.23	28.11	24.18	0.262
		High	1/1	H	8.36	12.27	28.93	25.02	0.318
40	QPSK	Low	1/104	H	8.24	12.20	28.05	24.09	0.256
		Middle	1/104	H	8.30	12.23	29.04	25.11	0.324
		High	1/1	H	8.35	12.27	29.08	25.17	0.329
	16QAM	Low	1/104	H	8.24	12.20	27.22	23.26	0.212
		Middle	1/104	H	8.30	12.23	28.07	24.14	0.259
		High	1/53	H	8.35	12.27	27.85	23.94	0.248
50	QPSK	Low	1/67	H	8.25	12.20	28.58	24.63	0.290
		Middle	1/131	H	8.30	12.23	29.13	25.20	0.331
		High	1/67	H	8.35	12.26	28.78	24.86	0.306
	16QAM	Low	1/67	H	8.25	12.20	27.53	23.58	0.228
		Middle	1/131	H	8.30	12.23	27.94	24.01	0.252
		High	1/67	H	8.35	12.26	27.85	23.93	0.247
60	QPSK	Low	1/81	H	8.26	12.21	28.26	24.31	0.270
		Middle	1/160	H	8.30	12.23	28.31	24.38	0.274
		High	1/81	H	8.34	12.25	29.29	25.37	0.344
	16QAM	Low	1/81	H	8.26	12.21	27.36	23.41	0.219
		Middle	1/160	H	8.30	12.23	27.38	23.45	0.221
		High	1/81	H	8.34	12.25	28.40	24.48	0.281

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
70	QPSK	Low	1/95	H	8.27	12.21	27.99	24.05	0.254
		Middle	1/1	H	8.30	12.23	28.51	24.58	0.287
		High	1/95	H	8.33	12.25	28.92	25.00	0.316
	16QAM	Low	1/95	H	8.27	12.21	26.99	23.05	0.202
		Middle	1/1	H	8.30	12.23	26.98	23.05	0.202
		High	1/95	H	8.33	12.25	28.13	24.21	0.264
80	QPSK	Low	1/109	H	8.28	12.22	28.09	24.15	0.260
		Middle	1/1	H	8.30	12.23	27.90	23.97	0.249
		High	1/109	H	8.32	12.24	28.92	25.00	0.316
	16QAM	Low	1/109	H	8.28	12.22	27.03	23.09	0.204
		Middle	1/1	H	8.30	12.23	26.65	22.72	0.187
		High	1/109	H	8.32	12.24	27.81	23.89	0.245
90	QPSK	Low	1/1	H	8.29	12.23	27.79	23.85	0.243
		Middle	1/1	H	8.30	12.23	27.95	24.02	0.252
		High	1/123	H	8.31	12.24	27.86	23.93	0.247
	16QAM	Low	1/1	H	8.29	12.23	26.73	22.79	0.190
		Middle	1/1	H	8.30	12.23	27.12	23.19	0.208
		High	1/123	H	8.31	12.24	26.76	22.83	0.192
100	QPSK	Low	1/137	H	8.30	12.23	27.75	23.82	0.241
	16QAM	Low	1/137	H	8.30	12.23	26.91	22.98	0.199

Test mode: 5G NR n77(Lower)(Power Class 3)(SRS1)

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
100	QPSK	Middle	1/1	H	8.30	12.23	13.20	9.27	0.008

Test mode: 5G NR n77(Lower)(Power Class 3)(SRS2)

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
50	QPSK	Low	1/1	H	8.25	12.20	15.09	11.14	0.013
		Middle	1/1	H	8.30	12.23	14.94	11.01	0.013
		High	1/1	H	8.35	12.26	15.57	11.66	0.015

Test mode: 5G NR n77(Lower)(Power Class 3)(SRS3)

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
10	QPSK	Low	1/1	H	8.21	12.18	14.29	10.33	0.011
		Middle	1/1	H	8.30	12.23	14.46	10.53	0.011
		High	1/1	H	8.38	12.28	15.52	11.61	0.015

Test mode: 5G NR n77(Upper)(Power Class 3) DFT-s-OFDM

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
10	QPSK	Low	1/1	H	8.67	12.48	29.41	25.60	0.363
		Middle	1/12	H	8.91	12.62	29.29	25.58	0.361
		High	1/12	H	9.16	12.78	29.52	25.89	0.388
	16QAM	Low	1/12	H	8.67	12.48	27.89	24.08	0.256
		Middle	1/12	H	8.91	12.62	28.19	24.48	0.281
		High	1/12	H	9.16	12.78	28.40	24.77	0.300
15	QPSK	Low	1/19	H	8.67	12.48	28.65	24.84	0.305
		Middle	1/1	H	8.91	12.62	29.23	25.52	0.356
		High	1/19	H	8.83	12.35	29.51	25.98	0.396
	16QAM	Low	1/19	H	8.67	12.48	27.80	23.99	0.251
		Middle	1/1	H	8.91	12.62	28.44	24.73	0.297
		High	1/19	H	8.83	12.35	28.94	25.41	0.348
20	QPSK	Low	1/1	H	8.68	12.49	29.00	25.19	0.330
		Middle	1/1	H	8.91	12.62	28.57	24.86	0.306
		High	1/1	H	9.15	12.77	29.74	26.12	0.409
	16QAM	Low	1/1	H	8.68	12.49	28.06	24.25	0.266
		Middle	1/1	H	8.91	12.62	27.46	23.75	0.237
		High	1/1	H	9.15	12.77	28.35	24.73	0.297
25	QPSK	Low	1/1	H	8.68	12.49	29.81	26.00	0.398
		Middle	1/63	H	8.91	12.62	29.25	25.54	0.358
		High	1/1	H	9.14	12.76	30.00	26.38	0.435
	16QAM	Low	1/1	H	8.68	12.49	28.95	25.14	0.327
		Middle	1/63	H	8.91	12.62	28.37	24.66	0.292
		High	1/1	H	9.14	12.76	29.32	25.70	0.372
30	QPSK	Low	1/1	H	8.69	12.49	29.72	25.91	0.390
		Middle	1/1	H	8.91	12.62	29.25	25.54	0.358
		High	1/1	H	9.14	12.75	30.12	26.50	0.447
	16QAM	Low	1/1	H	8.69	12.49	28.68	24.87	0.307
		Middle	1/1	H	8.91	12.62	28.14	24.43	0.277
		High	1/1	H	9.14	12.75	29.25	25.63	0.366
40	QPSK	Low	1/104	H	8.70	12.50	28.75	24.94	0.312
		Middle	1/1	H	8.91	12.62	28.39	24.68	0.294
		High	1/53	H	9.13	12.74	29.47	25.86	0.385
	16QAM	Low	1/104	H	8.70	12.50	27.49	23.68	0.233
		Middle	1/1	H	8.91	12.62	27.36	23.65	0.232
		High	1/53	H	9.13	12.74	28.24	24.63	0.290
50	QPSK	Low	1/1	H	8.71	12.51	28.31	24.51	0.282
		Middle	1/131	H	8.91	12.62	28.48	24.77	0.300
		High	1/67	H	9.12	12.72	29.39	25.78	0.378
	16QAM	Low	1/1	H	8.71	12.51	27.43	23.63	0.231
		Middle	1/131	H	8.91	12.62	27.44	23.73	0.236
		High	1/67	H	9.12	12.72	28.70	25.09	0.323
60	QPSK	Low	1/1	H	8.71	12.52	29.07	25.27	0.337
		Middle	1/160	H	8.91	12.62	29.56	25.85	0.385
		High	1/1	H	9.11	12.76	29.19	25.54	0.358
	16QAM	Low	1/1	H	8.71	12.52	28.01	24.21	0.264
		Middle	1/160	H	8.91	12.62	28.69	24.98	0.315
		High	1/1	H	9.11	12.76	28.26	24.61	0.289

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
70	QPSK	Low	1/187	H	8.72	12.52	28.33	24.53	0.284
		Middle	1/187	H	8.91	12.62	28.51	24.80	0.302
		High	1/1	H	9.10	12.75	29.03	25.38	0.345
	16QAM	Low	1/187	H	8.72	12.52	27.55	23.75	0.237
		Middle	1/187	H	8.91	12.62	27.37	23.66	0.232
		High	1/1	H	9.10	12.75	28.11	24.46	0.279
80	QPSK	Low	1/1	H	8.73	12.53	28.02	24.22	0.264
		Middle	1/215	H	8.91	12.62	28.30	24.59	0.288
		High	1/1	H	9.09	12.74	29.43	25.79	0.379
	16QAM	Low	1/1	H	8.73	12.53	27.08	23.28	0.213
		Middle	1/215	H	8.91	12.62	27.40	23.69	0.234
		High	1/1	H	9.09	12.74	28.37	24.73	0.297
90	QPSK	Low	1/243	H	8.74	12.54	28.36	24.56	0.286
		Middle	1/243	H	8.91	12.62	28.01	24.30	0.269
		High	1/243	H	9.08	12.72	28.66	25.02	0.318
	16QAM	Low	1/243	H	8.74	12.54	27.17	23.37	0.217
		Middle	1/243	H	8.91	12.62	27.08	23.37	0.217
		High	1/243	H	9.08	12.72	27.47	23.83	0.242
100	QPSK	Low	1/271	H	8.75	12.22	28.09	24.62	0.290
		Middle	1/1	H	8.91	12.62	28.14	24.43	0.277
		High	1/271	H	9.07	12.71	28.16	24.52	0.283
	16QAM	Low	1/271	H	8.75	12.22	26.87	23.40	0.219
		Middle	1/1	H	8.91	12.62	27.52	23.81	0.240
		High	1/271	H	9.07	12.71	27.21	23.57	0.228

Test mode: 5G NR n77(Upper)(Power Class 3)(SRS1)

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
100	QPSK	Low	1/1	H	8.75	12.22	13.08	9.61	0.009
		Middle	1/1	H	8.91	12.62	14.22	10.51	0.011
		High	1/1	H	9.07	12.71	17.93	14.29	0.027

Test mode: 5G NR n77(Upper)(Power Class 3)(SRS2)

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
100	QPSK	Low	1/1	H	8.75	12.22	13.13	9.66	0.009
		Middle	1/1	H	8.91	12.62	14.75	11.04	0.013
		High	1/1	H	9.07	12.71	15.09	11.45	0.014

Test mode: 5G NR n77(Upper)(Power Class 3)(SRS3)

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
15	QPSK	Low	1/1	H	8.67	12.48	15.83	12.02	0.016
		Middle	1/1	H	8.91	12.62	16.19	12.48	0.018
		High	1/1	H	9.15	12.78	17.11	13.48	0.022

Test mode: 5G NR n77(IC)(Power Class 3) DFT-s-OFDM

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
10	QPSK	Low	1/1	H	8.21	12.18	28.60	24.63	0.290
		Middle	1/1	H	8.62	12.30	27.29	23.61	0.230
		High	1/1	H	9.01	13.07	30.71	26.65	0.462
	16QAM	Low	1/1	H	8.21	12.18	27.63	23.66	0.232
		Middle	1/12	H	8.62	12.30	25.94	22.26	0.168
		High	1/1	H	9.01	13.07	29.63	25.57	0.361
15	QPSK	Low	1/19	H	8.22	12.18	29.14	25.17	0.329
		Middle	1/1	H	8.62	12.30	28.29	24.61	0.289
		High	1/19	H	9.01	13.06	29.44	25.38	0.345
	16QAM	Low	1/19	H	8.22	12.18	27.99	24.02	0.252
		Middle	1/1	H	8.62	12.30	26.75	23.07	0.203
		High	1/19	H	9.01	13.06	28.52	24.46	0.279
20	QPSK	Low	1/1	H	8.22	12.18	27.53	23.57	0.228
		Middle	1/1	H	8.62	12.30	27.65	23.97	0.249
		High	1/49	H	9.00	13.06	30.00	25.94	0.393
	16QAM	Low	1/1	H	8.22	12.18	26.75	22.79	0.190
		Middle	1/1	H	8.62	12.30	26.34	22.66	0.185
		High	1/49	H	9.00	13.06	29.16	25.10	0.324
25	QPSK	Low	1/63	H	8.23	12.19	27.76	23.80	0.240
		Middle	1/63	H	8.62	12.30	29.63	25.95	0.394
		High	1/1	H	9.00	13.06	30.27	26.21	0.418
	16QAM	Low	1/1	H	8.23	12.19	26.88	22.92	0.196
		Middle	1/63	H	8.62	12.30	28.50	24.82	0.303
		High	1/1	H	9.00	13.06	28.93	24.87	0.307
30	QPSK	Low	1/76	H	8.23	12.19	28.31	24.35	0.272
		Middle	1/1	H	8.62	12.30	27.67	23.99	0.251
		High	1/76	H	8.99	13.06	30.17	26.10	0.407
	16QAM	Low	1/76	H	8.23	12.19	27.18	23.22	0.210
		Middle	1/1	H	8.62	12.30	26.68	23.00	0.200
		High	1/76	H	8.99	13.06	29.40	25.33	0.341
40	QPSK	Low	1/104	H	8.24	12.20	28.05	24.09	0.256
		Middle	1/1	H	8.62	12.30	27.46	23.78	0.239
		High	1/53	H	8.98	13.06	29.57	25.50	0.355
	16QAM	Low	1/104	H	8.24	12.20	27.22	23.26	0.212
		Middle	1/1	H	8.62	12.30	26.48	22.80	0.191
		High	1/53	H	8.98	13.06	28.66	24.59	0.288
50	QPSK	Low	1/67	H	8.25	12.20	28.58	24.63	0.290
		Middle	1/1	H	8.62	12.30	26.86	23.18	0.208
		High	1/131	H	8.97	13.05	29.29	25.21	0.332
	16QAM	Low	1/67	H	8.25	12.20	27.53	23.58	0.228
		Middle	1/1	H	8.62	12.30	25.54	21.86	0.153
		High	1/131	H	8.97	13.05	27.97	23.89	0.245
60	QPSK	Low	1/81	H	8.26	12.21	28.26	24.31	0.270
		Middle	1/1	H	8.62	12.30	26.97	23.29	0.213
		High	1/81	H	8.97	13.05	29.54	25.45	0.351
	16QAM	Low	1/81	H	8.26	12.21	27.36	23.41	0.219
		Middle	1/1	H	8.62	12.30	25.56	21.88	0.154
		High	1/81	H	8.97	13.05	28.67	24.58	0.287

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
70	QPSK	Low	1/95	H	8.27	12.21	27.99	24.05	0.254
		Middle	1/1	H	8.62	12.30	27.48	23.80	0.240
		High	1/95	H	8.96	13.05	29.45	25.36	0.344
	16QAM	Low	1/95	H	8.27	12.21	26.99	23.05	0.202
		Middle	1/1	H	8.62	12.30	26.41	22.73	0.187
		High	1/95	H	8.96	13.05	28.88	24.79	0.301
80	QPSK	Low	1/109	H	8.28	12.22	28.09	24.15	0.260
		Middle	1/215	H	8.62	12.30	26.52	22.84	0.192
		High	1/215	H	8.95	13.05	29.14	25.04	0.319
	16QAM	Low	1/109	H	8.28	12.22	27.03	23.09	0.204
		Middle	1/215	H	8.62	12.30	25.73	22.05	0.160
		High	1/215	H	8.95	13.05	27.89	23.79	0.239
90	QPSK	Low	1/1	H	8.29	12.23	27.79	23.85	0.243
		Middle	1/1	H	8.62	12.30	27.11	23.43	0.220
		High	1/243	H	8.94	13.04	29.37	25.27	0.337
	16QAM	Low	1/1	H	8.29	12.23	26.73	22.79	0.190
		Middle	1/1	H	8.62	12.30	26.18	22.50	0.178
		High	1/243	H	8.94	13.04	28.39	24.29	0.269
100	QPSK	Low	1/137	H	8.30	12.23	27.75	23.82	0.241
		Middle	1/1	H	8.62	12.30	27.46	23.78	0.239
		High	1/271	H	8.93	12.64	27.80	24.09	0.256
	16QAM	Low	1/137	H	8.30	12.23	26.91	22.98	0.199
		Middle	1/1	H	8.62	12.30	26.86	23.18	0.208
		High	1/271	H	8.93	12.64	26.84	23.13	0.206

Test mode: 5G NR n77(IC)(Power Class 3)(SRS1)

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
100	QPSK	Low	1/1	H	8.30	12.23	11.82	7.89	0.006
		Middle	1/1	H	8.62	12.30	15.19	11.51	0.014
		High	1/1	H	8.93	12.64	14.40	10.69	0.012

Test mode: 5G NR n77(IC)(Power Class 3)(SRS2)

Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
100	QPSK	Low	1/1	H	8.30	12.23	14.05	10.12	0.010
		Middle	1/1	H	8.62	12.30	14.05	10.37	0.011
		High	1/1	H	8.93	12.64	14.41	10.70	0.012

Test mode: 5G NR n77(IC)(Power Class 3)(SRS3)

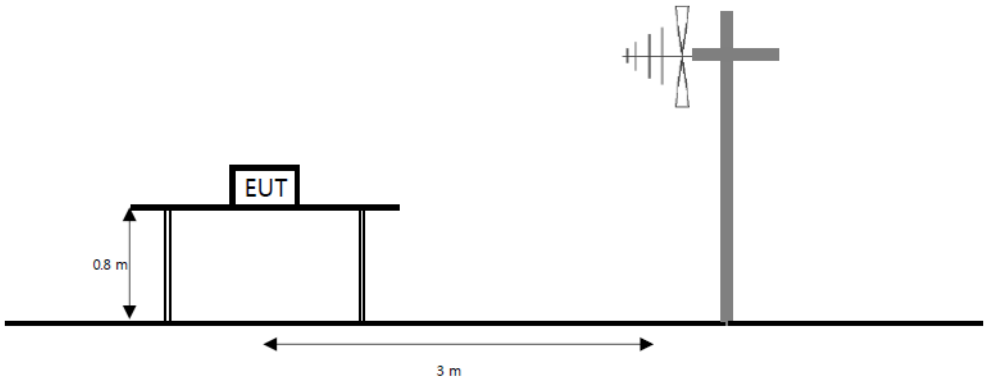
Band width [㎒]	Modulation	Channel	RB Size/ Offset	Pol.	Antenna Gain	C.L	Substitute Level	EIRP	
				[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[W]
70	QPSK	Low	1/95	H	8.27	12.21	14.68	10.74	0.012
		Middle	1/95	H	8.62	12.30	17.17	13.49	0.022
		High	1/95	H	8.96	13.05	14.80	10.71	0.012

Note.
1. E.R.P & E.I.R.P(㏈m) = Substitute Level(㏈) + Antenna gain(㏈d&㏈i) - C.L(Cable loss) (㏈)

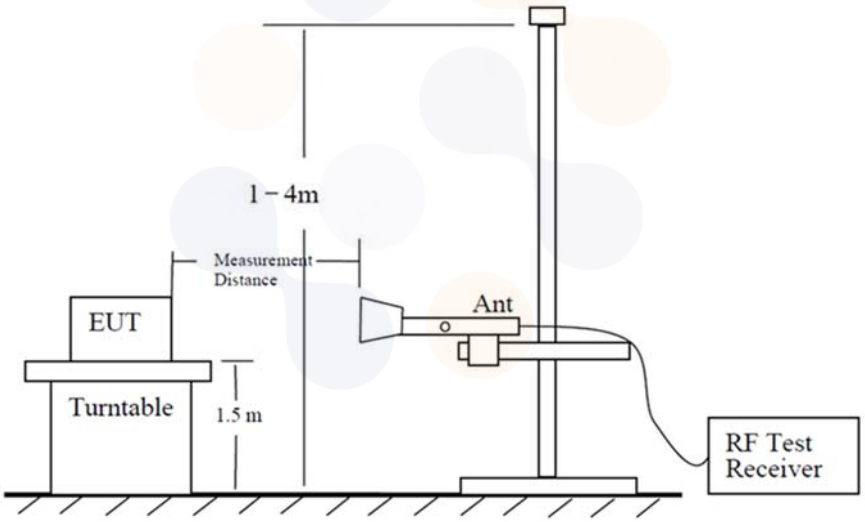
7.8 Radiated Spurious Emissions

Test setup

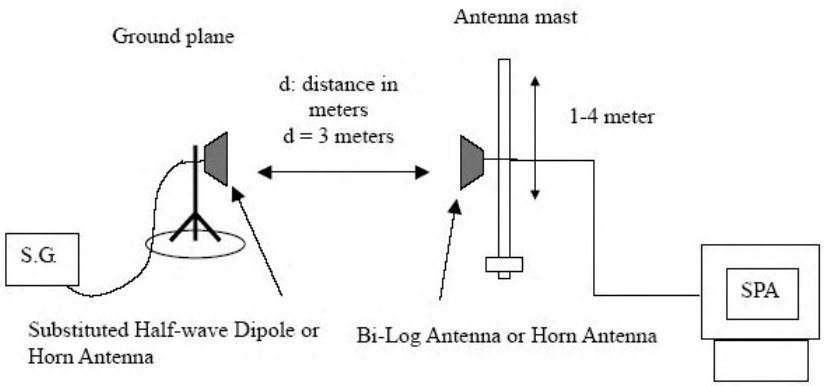
The diagram below shows the test setup that is utilized to make the measurements for emission from 30 ㎒ to 1 ㎓ emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 ㎓ to the tenth harmonic of the highest fundamental frequency or to 40 ㎓ emissions, whichever is lower.



The diagram below shows the test setup for substituted method.



Limit

According to §22.917(a), §24.238(a) and RSS-132(5.5), RSS-133(6.5),
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 + 10log($P_{[Watts]}$) ㏈.

According to §27.53(a),
By a factor of not less than 43 + 10 log (P) ㏈ on all frequencies between 2360 and 2365 ㎒ , and not less than 70 + 10 log (P) ㏈ above 2365 ㎒ .

According to §27.53(g) and RSS-130(4.7),
For operations in the 600 ㎒ band and the 698-746 ㎒ band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10log($P_{[Watts]}$) ㏈.

According to §27.53(h) and RSS-139(5.6),
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 + 10log($P_{[Watts]}$) ㏈.

According to §27.53(m) and RSS-199(4.5),
The minimum permissible attenuation level of any spurious emission is 55 + 10log($P_{[Watts]}$) ㏈.

According to §27.53(l)(2),
The following emission limits apply to stations transmitting in the 3700-3980 ㎒ band:

(4) For mobile operations in the 3700-3980 ㎒ band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 ㏈m/㎒.

According to §27.53(n)(2),
The following emission limits apply to stations transmitting in the 3450-3550 ㎒ band:

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

According to RSS-192(5.6)
Subscriber equipment shall have the TRP or conducted power (per antenna), where applicable, of unwanted emission not exceeding the following:

a. a limit of -30 dBm/MHz in the frequency range greater than (B+5) MHz from the edge of the frequency band

Test procedure
971168 D01 v03r01 - Section 6.2
ANSI 63.26-2015 – Section 5.5
ANSI/TIA-603-E-2016 - Section 2.2.12

Test settings
1) RBW = 100 kHz for below 1 GHz and 1 MHz for above 1 GHz .
2) VBW ≥ 3 × RBW.
3) Detector = RMS
4) Trace mode = Max hold
5) Sweep time = Auto couple
6) Number of sweep points ≥ 2 × span / RBW
7) Allow trace to fully stabilize.

Notes:
1. On a test site, the EUT shall be placed at 80 cm 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 turntable is rotated through 360°, and the receiving antenna scans in order to determine the level of the maximized emission.
4. The test antenna shall be raIC and lowered again through the specified range of height until the maximum signal level is detected by the measuring receiver.
5. The maximum signal level detected by the measuring receiver shall be noted.
6. The EUT was replaced by half-wave dipole (1 GHz below) or horn antenna (1 GHz above) connected to a signal generator.
7. The test antenna shall be raIC and lowered through the specified range of height to ensure that the maximum signal is received.
8. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring corrected for the change of input attenuator setting of the measuring receiver.
9. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
10. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.

Test results (Above 1 000 ㎒)

Test mode: 5G NR n5 DFT-s-OFDM

Test mode : 5G NR n5
Frequency(㎒) : 831.5
Channel : 166300
Bandwidth(㎒) : 15
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	1 649.47	V	5.75	8.70	-57.95	-60.90	-13.00	47.90
	2 472.08	H	5.93	10.79	-51.44	-56.30	-13.00	43.30
	3 298.37	V	7.90	11.99	-50.21	-54.30	-13.00	41.30
	4 117.29	H	9.29	13.40	-48.49	-52.60	-13.00	39.60

Test mode : 5G NR n5
Frequency(㎒) : 836.5
Channel : 167300
Bandwidth(㎒) : 15
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	1 658.50	H	5.72	8.67	-58.75	-61.70	-13.00	48.70
	2 486.44	H	5.96	10.81	-53.25	-58.10	-13.00	45.10
	3 318.07	V	7.94	12.01	-50.73	-54.80	-13.00	41.80
	4 147.65	H	9.32	13.46	-47.66	-51.80	-13.00	38.80

Test mode : 5G NR n5
Frequency(㎒) : 841.5
Channel : 168300
Bandwidth(㎒) : 15
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	1 669.98	H	5.69	8.70	-57.89	-60.90	-13.00	47.90
	2 502.44	V	6.01	10.87	-51.74	-56.60	-13.00	43.60
	3 335.30	V	7.97	12.03	-51.64	-55.70	-13.00	42.70
	4 171.03	H	9.34	13.14	-49.70	-53.50	-13.00	40.50

Test mode: 5G NR n12 DFT-s-OFDM

Test mode : 5G NR n12
Frequency(㎒) : 701.5
Channel : 140300
Bandwidth(㎒) : 5
RB Size/Offset 1/23

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	1 409.20	H	5.56	8.04	-61.32	-63.80	-13.00	50.80
	2 113.60	H	5.00	9.91	-52.79	-57.70	-13.00	44.70
	2 815.60	V	6.82	11.41	-53.11	-57.70	-13.00	44.70
	3 518.80	H	8.33	12.25	-51.18	-55.10	-13.00	42.10

Test mode : 5G NR n12
Frequency(㎒) : 707.5
Channel : 141500
Bandwidth(㎒) : 5
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	1 410.40	H	5.57	8.04	-59.43	-61.90	-13.00	48.90
	2 114.40	V	5.00	9.91	-52.19	-57.10	-13.00	44.10
	2 820.80	V	6.83	11.42	-52.41	-57.00	-13.00	44.00
	3 525.60	H	8.35	12.26	-50.89	-54.80	-13.00	41.80

Test mode : 5G NR n12
Frequency(㎒) : 713.5
Channel : 142700
Bandwidth(㎒) : 5
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	1 422.80	H	5.66	8.07	-58.09	-60.50	-13.00	47.50
	2 134.40	H	5.05	9.96	-41.09	-46.00	-13.00	33.00
	2 840.80	V	6.89	11.44	-51.85	-56.40	-13.00	43.40
	3 554.40	V	8.40	12.91	-49.29	-53.80	-13.00	40.80

Test mode: 5G NR n25 DFT-s-OFDM

Test mode : 5G NR n25/2
Frequency(㎒) : 1 860.0
Channel : 372000
Bandwidth(㎒) : 20
RB Size/Offset 1/53

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	3 719.25	V	8.69	12.50	-48.99	-52.80	-13.00	39.80
	5 580.00	H	10.62	16.22	-36.70	-42.30	-13.00	29.30
	7 445.25	H	12.02	19.65	-42.07	-49.70	-13.00	36.70
	9 300.75	H	13.20	22.24	-39.66	-48.70	-13.00	35.70

Test mode : 5G NR n25/2
Frequency(㎒) : 1 882.5
Channel : 376500
Bandwidth(㎒) : 20
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	3 749.25	H	8.75	12.55	-48.00	-51.80	-13.00	38.80
	5 619.00	H	10.62	16.14	-42.88	-48.40	-13.00	35.40
	7 491.75	H	12.09	19.72	-40.97	-48.60	-13.00	35.60
	9 367.50	V	13.20	22.34	-36.56	-45.70	-13.00	32.70

Test mode : 5G NR n25/2
Frequency(㎒) : 1 905.0
Channel : 381000
Bandwidth(㎒) : 20
RB Size/Offset 1/104

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	3 831.75	V	8.90	12.60	-49.70	-53.40	-13.00	40.40
	5 740.50	V	10.65	16.56	-44.39	-50.30	-13.00	37.30
	7 656.75	H	12.23	20.00	-41.93	-49.70	-13.00	36.70
	9 574.50	V	13.19	22.53	-39.06	-48.40	-13.00	35.40

Test mode: 5G NR n30 DFT-s-OFDM

Test mode : 5G NR n30
Frequency(㎒) : 2 307.5
Channel : 461500
Bandwidth(㎒) : 5
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	4 610.25	V	9.75	14.35	-49.90	-54.50	-40.00	14.50
	6 914.25	H	11.33	18.65	-46.88	-54.20	-40.00	14.20
	9 221.25	H	13.20	22.15	-39.25	-48.20	-40.00	8.20
	11 526.00	H	13.29	24.94	-37.95	-49.60	-40.00	9.60

Test mode : 5G NR n30
Frequency(㎒) : 2 310.0
Channel : 641666
Bandwidth(㎒) : 10
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	4 615.50	H	9.76	14.36	-49.10	-53.70	-40.00	13.70
	6 924.00	H	11.34	18.66	-46.08	-53.40	-40.00	13.40
	9 231.75	V	13.20	22.16	-36.34	-45.30	-40.00	5.30
	11 535.75	V	13.29	24.95	-37.74	-49.40	-40.00	9.40

Test mode : 5G NR n30
Frequency(㎒) : 2 312.5
Channel : 462500
Bandwidth(㎒) : 5
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	4 620.75	H	9.77	14.36	-49.51	-54.10	-40.00	14.10
	6 934.50	V	11.35	18.68	-46.07	-53.40	-40.00	13.40
	9 241.50	V	13.20	22.18	-36.62	-45.60	-40.00	5.60
	11 552.25	H	13.28	24.98	-37.40	-49.10	-40.00	9.10

Test mode: 5G NR n41 DFT-s-OFDM

Test mode : 5G NR n41 (PC2)
Frequency(㎒) : 2 521.02
Channel : 504204
Bandwidth(㎒) : 50
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	4 995.00	V	10.29	15.08	-43.31	-48.10	-25.00	23.10
	7 492.50	V	12.09	19.72	-37.17	-44.80	-25.00	19.80
	9 990.00	V	13.10	23.73	-20.97	-31.60	-25.00	6.60
	12 479.25	H	13.20	27.01	-31.69	-45.50	-25.00	20.50

Test mode : 5G NR n41 (PC2)
Frequency(㎒) : 2 592.99
Channel : 518598
Bandwidth(㎒) : 80
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	5 139.00	H	10.38	15.49	-46.29	-51.40	-25.00	26.40
	7 701.00	H	12.26	19.87	-41.19	-48.80	-25.00	23.80
	10 278.00	V	13.16	23.86	-25.90	-36.60	-25.00	11.60
	12 840.75	V	13.34	27.17	-31.17	-45.00	-25.00	20.00

Test mode : 5G NR n41 (PC2)
Frequency(㎒) : 2 664.99
Channel : 532998
Bandwidth(㎒) : 50
RB Size/Offset 1/131

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	5 376.00	H	10.53	16.03	-44.40	-49.90	-25.00	24.90
	8 067.75	H	12.57	20.15	-41.32	-48.90	-25.00	23.90
	10 752.75	V	13.20	24.36	-20.34	-31.50	-25.00	6.50
	13 447.50	H	14.03	27.77	-31.56	-45.30	-25.00	20.30

Test mode : 5G NR n41 (PC2 - IC)
Frequency(㎒) : 2 540.01
Channel : 508002
Bandwidth(㎒) : 80
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	5 002.50	H	10.30	14.88	-44.82	-49.40	-25.00	24.40
	7 500.00	V	12.10	19.44	-41.56	-48.90	-25.00	23.90
	10 005.75	V	13.10	23.22	-21.38	-31.50	-25.00	6.50
	12 499.50	V	13.20	27.02	-30.28	-44.10	-25.00	19.10

Test mode: 5G NR n66 DFT-s-OFDM

Test mode : 5G NR n66
Frequency(㎒) : 1 725.0
Channel : 345000
Bandwidth(㎒) : 30
RB Size/Offset 1/80

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	3 450.00	V	8.20	12.17	-52.73	-56.70	-13.00	43.70
	5 175.00	H	10.41	15.55	-40.56	-45.70	-13.00	32.70
	6 989.25	V	11.39	18.76	-44.23	-51.60	-13.00	38.60
	8 623.50	V	13.05	21.02	-43.93	-51.90	-13.00	38.90

Test mode : 5G NR n66
Frequency(㎒) : 1 745.0
Channel : 349000
Bandwidth(㎒) : 30
RB Size/Offset 1/80

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	3 489.00	H	8.28	12.22	-53.36	-57.30	-13.00	44.30
	5 235.00	H	10.44	15.38	-35.06	-40.00	-13.00	27.00
	6 979.50	V	11.38	18.74	-45.54	-52.90	-13.00	39.90
	8 727.75	H	13.09	20.99	-43.50	-51.40	-13.00	38.40

Test mode : 5G NR n66
Frequency(㎒) : 1 765.0
Channel : 353000
Bandwidth(㎒) : 30
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	3 501.75	H	8.30	12.23	-51.97	-55.90	-13.00	42.90
	5 252.25	H	10.45	15.40	-37.85	-42.80	-13.00	29.80
	7 001.25	V	11.40	18.52	-45.88	-53.00	-13.00	40.00
	8 751.00	V	13.10	21.04	-43.46	-51.40	-13.00	38.40

Test mode: 5G NR n71 DFT-s-OFDM

Test mode : 5G NR n71
Frequency(㎒) : 665.5
Channel : 133100
Bandwidth(㎒) : 5
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	1 326.99	H	4.99	7.82	-50.67	-53.50	-13.00	40.50
	1 988.36	H	4.73	9.60	-52.33	-57.20	-13.00	44.20
	2 651.37	V	6.39	11.21	-50.78	-55.60	-13.00	42.60
	3 316.02	V	7.93	12.01	-50.72	-54.80	-13.00	41.80

Test mode : 5G NR n71
Frequency(㎒) : 680.5
Channel : 136100
Bandwidth(㎒) : 5
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	1 356.94	H	5.20	7.88	-52.62	-55.30	-13.00	42.30
	2 038.00	V	4.80	9.73	-51.97	-56.90	-13.00	43.90
	2 719.06	V	6.57	11.30	-51.67	-56.40	-13.00	43.40
	3 394.79	V	8.09	12.11	-50.58	-54.60	-13.00	41.60

Test mode : 5G NR n71
Frequency(㎒) : 695.5
Channel : 139100
Bandwidth(㎒) : 5
RB Size/Offset 1/13

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	1 391.41	H	5.44	7.97	-56.07	-58.60	-13.00	45.60
	2 085.59	H	4.92	9.84	-52.48	-57.40	-13.00	44.40
	2 782.66	H	6.73	11.37	-52.36	-57.00	-13.00	44.00
	3 478.08	H	8.26	12.20	-51.66	-55.60	-13.00	42.60

Test mode: 5G NR n77(Lower)(PC2) DFT-s-OFDM

Test mode : 5G NR n77(Lower)(PC2)
Frequency(㎒) : 3 457.5
Channel : 630500
Bandwidth(㎒) : 15
RB Size/Offset 1/19

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 914.80	H	11.33	18.65	-35.38	-42.70	-13.00	29.70
	10 373.50	H	13.17	23.76	-31.81	-42.40	-13.00	29.40
	13 830.80	V	14.30	28.69	-27.51	-41.90	-13.00	28.90
	17 286.00	H	13.76	31.49	-29.07	-46.80	-13.00	33.80

Test mode : 5G NR n77(Lower)(PC2)
Frequency(㎒) : 3 500.01
Channel : 633334
Bandwidth(㎒) : 15
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 986.90	V	11.39	18.76	-34.23	-41.60	-13.00	28.60
	10 479.20	H	13.20	24.24	-31.36	-42.40	-13.00	29.40
	13 970.10	V	14.38	29.13	-29.55	-44.30	-13.00	31.30
	17 461.70	H	14.04	33.08	-24.16	-43.20	-13.00	30.20

Test mode : 5G NR n77(Lower)(PC2)
Frequency(㎒) : 3 542.49
Channel : 636166
Bandwidth(㎒) : 15
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 072.30	V	11.50	18.63	-29.47	-36.60	-13.00	23.60
	10 606.60	V	13.20	24.17	-30.33	-41.30	-13.00	28.30
	14 140.90	V	14.32	29.01	-26.61	-41.30	-13.00	28.30
	17 678.00	V	14.10	31.91	-25.39	-43.20	-13.00	30.20

Test mode: 5G NR n77(Lower)(PC2)(SRS1) DFT-s-OFDM

Test mode : 5G NR n77(Lower)(PC2)(SRS1)
Frequency(㎒) : 3 470.01
Channel : 631334
Bandwidth(㎒) : 40
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 898.70	V	11.32	18.38	-44.34	-51.40	-13.00	38.40
	10 350.40	V	13.17	23.73	-36.34	-46.90	-13.00	33.90
	13 799.30	V	14.28	29.18	-29.80	-44.70	-13.00	31.70
	17 250.30	V	13.70	32.72	-29.88	-48.90	-13.00	35.90

Test mode : 5G NR n77(Lower)(PC2)(SRS1)
Frequency(㎒) : 3 500.01
Channel : 633334
Bandwidth(㎒) : 40
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 961.00	H	11.37	18.72	-43.35	-50.70	-13.00	37.70
	10 438.60	V	13.19	24.20	-35.89	-46.90	-13.00	33.90
	13 920.40	V	14.35	29.02	-30.43	-45.10	-13.00	32.10
	17 400.80	H	13.94	35.22	-24.32	-45.60	-13.00	32.60

Test mode : 5G NR n77(Lower)(PC2)(SRS1)
Frequency(㎒) : 3 529.98
Channel : 635332
Bandwidth(㎒) : 40
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 021.20	V	11.43	18.55	-42.58	-49.70	-13.00	36.70
	10 530.30	H	13.20	24.26	-34.74	-45.80	-13.00	32.80
	14 040.10	V	14.38	29.67	-29.71	-45.00	-13.00	32.00
	17 549.20	H	14.10	33.70	-26.50	-46.10	-13.00	33.10

Test mode: 5G NR n77(Lower)(PC2)(SRS2) DFT-s-OFDM

Test mode	:	5G NR n77(Lower)(PC2)(SRS2)
Frequency(㎒)	:	3 500.01
Channel	:	633334
Bandwidth(㎒)	:	100
RB Size/Offset		1/137

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 997.40	H	11.40	18.77	-41.93	-49.30	-13.00	36.30
	10 500.90	H	13.20	24.24	-34.96	-46.00	-13.00	33.00
	14 000.90	V	14.40	29.62	-31.68	-46.90	-13.00	33.90
	17 499.50	H	14.10	31.74	-33.06	-50.70	-13.00	37.70

Test mode: 5G NR n77(Lower)(PC2)(SRS3) DFT-s-OFDM

Test mode : 5G NR n77(Lower)(PC2)(SRS3)
Frequency(㎒) : 3 490.02
Channel : 632668
Bandwidth(㎒) : 80
RB Size/Offset 1/109

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 979.90	H	11.38	18.75	-41.23	-48.60	-13.00	35.60
	10 468.70	H	13.19	24.23	-34.96	-46.00	-13.00	33.00
	13 958.90	H	14.38	29.10	-29.78	-44.50	-13.00	31.50
	17 451.20	H	14.02	33.45	-27.47	-46.90	-13.00	33.90

Test mode : 5G NR n77(Lower)(PC2)(SRS3)
Frequency(㎒) : 3 500.01
Channel : 633334
Bandwidth(㎒) : 80
RB Size/Offset 1/109

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 000.90	V	11.40	18.52	-43.08	-50.20	-13.00	37.20
	10 501.60	V	13.20	24.24	-37.06	-48.10	-13.00	35.10
	13 999.50	H	14.40	29.20	-32.80	-47.60	-13.00	34.60
	17 499.50	H	14.10	31.74	-30.96	-48.60	-13.00	35.60

Test mode : 5G NR n77(Lower)(PC2)(SRS3)
Frequency(㎒) : 3 510.00
Channel : 634000
Bandwidth(㎒) : 80
RB Size/Offset 1/109

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 019.10	H	11.43	18.55	-43.08	-50.20	-13.00	37.20
	10 531.00	H	13.20	24.26	-35.74	-46.80	-13.00	33.80
	14 040.80	V	14.38	29.67	-31.71	-47.00	-13.00	34.00
	17 550.60	V	14.10	33.65	-28.75	-48.30	-13.00	35.30

Test mode: 5G NR n77(Upper)(PC2) DFT-s-OFDM

Test mode : 5G NR n77(Upper)(PC2)
Frequency(㎒) : 3 707.52
Channel : 647168
Bandwidth(㎒) : 15
RB Size/Offset 1/19

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 414.60	V	11.98	19.61	-35.27	-42.90	-13.00	29.90
	11 123.20	V	13.22	24.73	-31.39	-42.90	-13.00	29.90
	14 830.40	H	14.03	30.34	-23.29	-39.60	-13.00	26.60

Test mode : 5G NR n77(Upper)(PC2)
Frequency(㎒) : 3 840.00
Channel : 656000
Bandwidth(㎒) : 15
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 663.80	H	12.23	20.01	-37.92	-45.70	-13.00	32.70
	11 499.80	H	13.30	25.31	-28.29	-40.30	-13.00	27.30
	15 328.10	H	14.20	31.71	-23.79	-41.30	-13.00	28.30

Test mode : 5G NR n77(Upper)(PC2)
Frequency(㎒) : 3 972.48
Channel : 664832
Bandwidth(㎒) : 15
RB Size/Offset 1/19

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 945.20	H	12.46	20.14	-32.22	-39.90	-13.00	26.90
	11 919.10	H	13.13	25.94	-30.49	-43.30	-13.00	30.30
	15 887.40	V	13.76	33.44	-23.82	-43.50	-13.00	30.50

Test mode: 5G NR n77(Upper)(PC2)(SRS1) DFT-s-OFDM

Test mode : 5G NR n77(Upper)(PC2)(SRS1)
Frequency(㎒) : 3 750.00
Channel : 650000
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 400.60	V	11.96	19.59	-42.57	-50.20	-13.00	37.20
	11 101.50	V	13.22	24.70	-33.82	-45.30	-13.00	32.30
	14 796.80	V	14.04	30.89	-28.75	-45.60	-13.00	32.60
	18 500.50	H	11.30	31.82	-27.98	-48.50	-13.00	35.50

Test mode : 5G NR n77(Upper)(PC2)(SRS1)
Frequency(㎒) : 3 840.00
Channel : 656000
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 578.40	V	12.16	19.56	-43.90	-51.30	-13.00	38.30
	11 369.60	V	13.27	24.97	-34.40	-46.10	-13.00	33.10
	15 160.80	V	14.10	31.80	-28.80	-46.50	-13.00	33.50
	18 952.60	V	11.40	32.18	-28.12	-48.90	-13.00	35.90

Test mode : 5G NR n77(Upper)(PC2)(SRS1)
Frequency(㎒) : 3 930.00
Channel : 662000
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 759.00	H	12.31	19.93	-42.68	-50.30	-13.00	37.30
	11 638.40	V	13.24	25.62	-33.42	-45.80	-13.00	32.80
	15 520.60	H	14.27	32.24	-27.33	-45.30	-13.00	32.30
	19 398.10	V	11.50	32.23	-26.97	-47.70	-13.00	34.70

Test mode: 5G NR n77(Upper)(PC2)(SRS2) DFT-s-OFDM

Test mode : 5G NR n77(Upper)(PC2)(SRS2)
Frequency(㎒) : 3 745.02
Channel : 649668
Bandwidth(㎒) : 90
RB Size/Offset 1/243

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 579.80	H	12.16	19.56	-41.80	-49.20	-13.00	36.20
	11 370.30	H	13.27	24.97	-34.10	-45.80	-13.00	32.80
	15 160.80	V	14.10	31.80	-29.80	-47.50	-13.00	34.50
	18 947.10	V	11.40	32.18	-28.32	-49.10	-13.00	36.10

Test mode : 5G NR n77(Upper)(PC2)(SRS2)
Frequency(㎒) : 3 840.00
Channel : 656000
Bandwidth(㎒) : 90
RB Size/Offset 1/243

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 769.50	V	12.32	19.94	-41.98	-49.60	-13.00	36.60
	11 654.50	V	13.24	25.64	-34.00	-46.40	-13.00	33.40
	15 540.90	V	14.24	32.26	-28.48	-46.50	-13.00	33.50
	19 425.60	V	11.50	32.48	-27.02	-48.00	-13.00	35.00

Test mode : 5G NR n77(Upper)(PC2)(SRS2)
Frequency(㎒) : 3 934.98
Channel : 662332
Bandwidth(㎒) : 90
RB Size/Offset 1/243

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 959.90	H	12.47	20.16	-41.21	-48.90	-13.00	35.90
	11 940.10	V	13.12	25.97	-34.55	-47.40	-13.00	34.40
	15 921.00	H	13.71	32.34	-28.37	-47.00	-13.00	34.00
	19 900.80	V	11.30	32.92	-24.58	-46.20	-13.00	33.20

Test mode: 5G NR n77(Upper)(PC2)(SRS3) DFT-s-OFDM

Test mode : 5G NR n77(Upper)(PC2)(SRS3)
Frequency(㎒) : 3 750.00
Channel : 650000
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 398.50	V	11.96	19.45	-40.51	-48.00	-13.00	35.00
	11 102.20	H	13.22	24.70	-33.72	-45.20	-13.00	32.20
	14 802.40	H	14.04	30.26	-28.58	-44.80	-13.00	31.80
	18 502.70	H	11.30	31.82	-28.98	-49.50	-13.00	36.50

Test mode : 5G NR n77(Upper)(PC2)(SRS3)
Frequency(㎒) : 3 840.00
Channel : 656000
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 582.60	V	12.17	19.56	-42.91	-50.30	-13.00	37.30
	11 368.20	H	13.27	24.97	-33.90	-45.60	-13.00	32.60
	15 160.80	V	14.10	31.80	-29.30	-47.00	-13.00	34.00
	18 950.40	V	11.40	32.18	-28.72	-49.50	-13.00	36.50

Test mode : 5G NR n77(Upper)(PC2)(SRS3)
Frequency(㎒) : 3 930.00
Channel : 662000
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 760.40	H	12.31	19.93	-41.88	-49.50	-13.00	36.50
	11 640.50	V	13.24	25.62	-34.42	-46.80	-13.00	33.80
	15 521.30	V	14.27	32.24	-28.13	-46.10	-13.00	33.10
	19 404.70	V	11.50	32.23	-27.47	-48.20	-13.00	35.20

Test mode: 5G NR n77(IC)(PC2) DFT-s-OFDM

Test mode : 5G NR n77(IC)(PC2)
Frequency(㎒) : 3 465.00
Channel : 631000
Bandwidth(㎒) : 30
RB Size/Offset 1/76

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 956.10	V	11.36	18.71	-36.45	-43.80	-30.00	13.80
	10 440.70	V	13.19	24.20	-31.49	-42.50	-30.00	12.50
	13 919.70	V	14.35	29.01	-27.24	-41.90	-30.00	11.90
	17 400.80	V	13.94	35.22	-21.82	-43.10	-30.00	13.10

Test mode : 5G NR n77(IC)(PC2)
Frequency(㎒) : 3 675.00
Channel : 645000
Bandwidth(㎒) : 30
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 322.84	V	11.85	19.33	-28.92	-36.40	-30.00	6.40
	10 980.25	H	13.20	24.87	-35.23	-46.90	-30.00	16.90
	14 637.67	V	14.07	30.68	-28.59	-45.20	-30.00	15.20

Test mode : 5G NR n77(IC)(PC2)
Frequency(㎒) : 3 885.00
Channel : 659000
Bandwidth(㎒) : 30
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 742.90	V	12.29	19.92	-34.37	-42.00	-30.00	12.00
	11 608.30	V	13.26	25.58	-30.98	-43.30	-30.00	13.30
	15 480.00	V	14.29	31.69	-26.10	-43.50	-30.00	13.50

Test mode: 5G NR n77(IC)(PC2)(SRS1) DFT-s-OFDM

Test mode : 5G NR n77(IC)(PC2)(SRS1)
Frequency(㎒) : 3 500.01
Channel : 633334
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 900.10	H	11.32	18.63	-42.49	-49.80	-30.00	19.80
	10 350.40	V	13.17	23.73	-36.54	-47.10	-30.00	17.10
	13 800.00	V	14.28	29.18	-31.20	-46.10	-30.00	16.10
	17 248.90	H	13.70	32.77	-28.43	-47.50	-30.00	17.50

Test mode : 5G NR n77(IC)(PC2)(SRS1)
Frequency(㎒) : 3 675.00
Channel : 645000
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 250.80	V	11.75	18.88	-42.57	-49.70	-30.00	19.70
	10 876.10	H	13.20	24.69	-34.01	-45.50	-30.00	15.50
	14 500.70	H	14.10	29.71	-29.79	-45.40	-30.00	15.40
	18 126.50	H	11.30	31.25	-28.45	-48.40	-30.00	18.40

Test mode : 5G NR n77(IC)(PC2)(SRS1)
Frequency(㎒) : 3 849.99
Channel : 656666
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 600.10	H	12.18	19.94	-44.24	-52.00	-30.00	22.00
	11 400.40	H	13.28	25.13	-33.95	-45.80	-30.00	15.80
	15 201.40	H	14.12	31.60	-28.02	-45.50	-30.00	15.50
	18 999.90	V	11.40	32.42	-27.48	-48.50	-30.00	18.50

Test mode: 5G NR n77(IC)(PC2)(SRS2) DFT-s-OFDM

Test mode : 5G NR n77(IC)(PC2)(SRS2)
Frequency(㎒) : 3 500.01
Channel : 633334
Bandwidth(㎒) : 100
RB Size/Offset 1/137

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 996.70	V	11.40	18.77	-41.13	-48.50	-30.00	18.50
	10 499.50	H	13.20	24.26	-37.54	-48.60	-30.00	18.60
	14 004.40	V	14.40	29.63	-30.57	-45.80	-30.00	15.80
	17 499.50	H	14.10	31.74	-31.56	-49.20	-30.00	19.20

Test mode : 5G NR n77(IC)(PC2)(SRS2)
Frequency(㎒) : 3 675
Channel : 645000
Bandwidth(㎒) : 100
RB Size/Offset 1/137

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 350.20	H	11.89	19.37	-45.32	-52.80	-30.00	22.80
	11 025.20	H	13.21	24.47	-32.44	-43.70	-30.00	13.70
	14 703.00	H	14.06	30.77	-29.79	-46.50	-30.00	16.50
	18 374.00	H	11.30	31.50	-28.20	-48.40	-30.00	18.40

Test mode : 5G NR n77(IC)(PC2)(SRS2)
Frequency(㎒) : 3 849.99
Channel : 656666
Bandwidth(㎒) : 100
RB Size/Offset 1/137

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 699.50	V	12.26	20.04	-43.12	-50.90	-30.00	20.90
	11 550.20	V	13.28	24.98	-34.40	-46.10	-30.00	16.10
	15 400.20	H	14.24	31.45	-30.99	-48.20	-30.00	18.20
	19 250.70	H	11.50	32.44	-28.86	-49.80	-30.00	19.80

Test mode: 5G NR n77(IC)(PC2)(SRS3) DFT-s-OFDM

Test mode : 5G NR n77(IC)(PC2)(SRS3)
Frequency(㎒) : 3 500.01
Channel : 633334
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 901.50	H	11.32	18.63	-43.89	-51.20	-30.00	21.20
	10 353.90	V	13.17	23.74	-35.63	-46.20	-30.00	16.20
	13 802.10	V	14.28	28.64	-28.94	-43.30	-30.00	13.30
	17 250.30	H	13.70	32.72	-28.78	-47.80	-30.00	17.80

Test mode : 5G NR n77(IC)(PC2)(SRS3)
Frequency(㎒) : 3 675.00
Channel : 645000
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 248.70	H	11.75	18.87	-41.38	-48.50	-30.00	18.50
	10 876.80	H	13.20	24.70	-33.10	-44.60	-30.00	14.60
	14 500.70	H	14.10	29.71	-30.19	-45.80	-30.00	15.80
	18 124.30	V	11.30	31.25	-28.75	-48.70	-30.00	18.70

Test mode : 5G NR n77(IC)(PC2)(SRS3)
Frequency(㎒) : 3 849.99
Channel : 656666
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 600.80	V	12.18	19.94	-42.74	-50.50	-30.00	20.50
	11 399.70	V	13.28	25.01	-34.77	-46.50	-30.00	16.50
	15 200.70	H	14.12	31.60	-28.02	-45.50	-30.00	15.50
	19 002.10	V	11.40	32.42	-28.18	-49.20	-30.00	19.20

Test mode: 5G NR n77(Lower)(PC3) DFT-s-OFDM

Test mode : 5G NR n77(Lower)(PC3)
Frequency(㎒) : 3 465.00
Channel : 631000
Bandwidth(㎒) : 30
RB Size/Offset 1/76

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 961.00	V	11.37	18.72	-39.15	-46.50	-13.00	33.50
	10 440.70	H	13.19	24.20	-32.39	-43.40	-13.00	30.40
	13 920.40	V	14.35	29.02	-28.53	-43.20	-13.00	30.20
	17 399.40	H	13.94	31.33	-26.21	-43.60	-13.00	30.60

Test mode : 5G NR n77(Lower)(PC3)
Frequency(㎒) : 3 500.01
Channel : 633334
Bandwidth(㎒) : 30
RB Size/Offset 1/76

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 002.30	H	11.40	18.52	-39.58	-46.70	-13.00	33.70
	10 500.90	H	13.20	24.24	-30.26	-41.30	-13.00	28.30
	14 000.20	V	14.40	29.62	-27.48	-42.70	-13.00	29.70
	17 499.50	H	14.10	31.74	-26.66	-44.30	-13.00	31.30

Test mode : 5G NR n77(Lower)(PC3)
Frequency(㎒) : 3 534.99
Channel : 635666
Bandwidth(㎒) : 30
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 040.10	V	11.46	18.58	-39.28	-46.40	-13.00	33.40
	10 560.40	V	13.20	24.28	-32.42	-43.50	-13.00	30.50
	14 080.70	V	14.35	29.72	-25.73	-41.10	-13.00	28.10
	17 601.00	H	14.10	34.58	-23.62	-44.10	-13.00	31.10

Test mode: 5G NR n77(Lower)(PC3)(SRS1) DFT-s-OFDM

Test mode	:	5G NR n77(Lower)(PC3)(SRS1)
Frequency(㎒)	:	3 500.01
Channel	:	633334
Bandwidth(㎒)	:	100
RB Size/Offset		1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 902.20	H	11.32	18.63	-42.89	-50.20	-13.00	37.20
	10 349.00	V	13.17	23.73	-36.24	-46.80	-13.00	33.80
	13 797.20	H	14.28	29.17	-30.11	-45.00	-13.00	32.00
	17 251.00	V	13.70	32.69	-28.11	-47.10	-13.00	34.10

Test mode: 5G NR n77(Lower)(PC3)(SRS2) DFT-s-OFDM

Test mode : 5G NR n77(Lower)(PC3)(SRS2)
Frequency(㎒) : 3 475.02
Channel : 631668
Bandwidth(㎒) : 50
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 899.40	H	11.32	18.39	-43.23	-50.30	-13.00	37.30
	10 351.80	H	13.17	23.73	-35.04	-45.60	-13.00	32.60
	13 798.60	H	14.28	29.17	-29.41	-44.30	-13.00	31.30
	17 253.10	H	13.70	32.62	-28.48	-47.40	-13.00	34.40

Test mode : 5G NR n77(Lower)(PC3)(SRS2)
Frequency(㎒) : 3 500.01
Channel : 633334
Bandwidth(㎒) : 50
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna cGain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 949.80	V	11.36	18.70	-42.86	-50.20	-13.00	37.20
	10 423.90	V	13.18	24.18	-34.90	-45.90	-13.00	32.90
	13 898.70	V	14.34	28.80	-30.54	-45.00	-13.00	32.00
	17 374.20	H	13.90	32.21	-30.09	-48.40	-13.00	35.40

Test mode : 5G NR n77(Lower)(PC3)(SRS2)
Frequency(㎒) : 3 525.00
Channel : 635000
Bandwidth(㎒) : 50
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 000.90	V	11.40	18.52	-42.98	-50.10	-13.00	37.10
	10 500.20	H	13.20	24.24	-35.26	-46.30	-13.00	33.30
	13 998.10	H	14.40	29.19	-29.91	-44.70	-13.00	31.70
	17 500.20	V	14.10	35.43	-27.77	-49.10	-13.00	36.10

Test mode: 5G NR n77(Lower)(PC3)(SRS3) DFT-s-OFDM

Test mode : 5G NR n77(Lower)(PC3)(SRS3)
Frequency(㎒) : 3 455.01
Channel : 630334
Bandwidth(㎒) : 10
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 900.80	H	11.32	18.63	-43.89	-51.20	-13.00	38.20
	10 349.00	V	13.17	23.73	-35.94	-46.50	-13.00	33.50
	13 797.90	H	14.28	29.17	-28.41	-43.30	-13.00	30.30
	17 253.80	V	13.71	32.60	-28.71	-47.60	-13.00	34.60

Test mode : 5G NR n77(Lower)(PC3)(SRS3)
Frequency(㎒) : 3 500.01
Channel : 633334
Bandwidth(㎒) : 10
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 991.10	V	11.39	18.76	-42.03	-49.40	-13.00	36.40
	10 486.90	H	13.20	24.24	-35.16	-46.20	-13.00	33.20
	13 979.90	V	14.39	29.15	-31.54	-46.30	-13.00	33.30
	17 475.00	V	14.06	32.61	-29.25	-47.80	-13.00	34.80

Test mode : 5G NR n77(Lower)(PC3)(SRS3)
Frequency(㎒) : 3 544.98
Channel : 636332
Bandwidth(㎒) : 10
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 082.80	H	11.52	18.65	-44.17	-51.30	-13.00	38.30
	10 619.20	H	13.20	24.19	-35.51	-46.50	-13.00	33.50
	14 161.20	V	14.30	29.07	-31.23	-46.00	-13.00	33.00
	17 699.70	H	14.10	31.16	-31.14	-48.20	-13.00	35.20

Test mode: 5G NR n77(Upper)(PC3) DFT-s-OFDM

Test mode : 5G NR n77(Upper)(PC3)
Frequency(㎒) : 3 715.02
Channel : 647668
Bandwidth(㎒) : 30
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 402.70	V	11.96	19.59	-34.07	-41.70	-13.00	28.70
	11 099.40	H	13.22	24.60	-31.12	-42.50	-13.00	29.50
	14 801.70	V	14.04	30.26	-25.98	-42.20	-13.00	29.20

Test mode : 5G NR n77(Upper)(PC3)
Frequency(㎒) : 3 840.00
Channel : 656000
Bandwidth(㎒) : 30
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 652.60	H	12.22	19.99	-37.23	-45.00	-13.00	32.00
	11 476.70	H	13.30	25.27	-29.13	-41.10	-13.00	28.10
	15 300.80	V	14.18	31.67	-26.71	-44.20	-13.00	31.20

Test mode : 5G NR n77(Upper)(PC3)
Frequency(㎒) : 3 964.98
Channel : 664332
Bandwidth(㎒) : 30
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 899.70	V	12.42	20.07	-37.95	-45.60	-13.00	32.60
	11 851.20	V	13.16	25.56	-29.90	-42.30	-13.00	29.30
	15 800.60	V	13.88	33.36	-24.02	-43.50	-13.00	30.50

Test mode: 5G NR n77(Upper)(PC3)(SRS1) DFT-s-OFDM

Test mode : 5G NR n77(Upper)(PC3)(SRS1)
Frequency(㎒) : 3 750.00
Channel : 650000
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 403.40	H	11.96	19.59	-41.77	-49.40	-13.00	36.40
	11 098.00	V	13.22	24.60	-32.92	-44.30	-13.00	31.30
	14 796.80	H	14.04	30.89	-29.25	-46.10	-13.00	33.10
	18 495.00	H	11.30	31.82	-28.18	-48.70	-13.00	35.70

Test mode : 5G NR n77(Upper)(PC3)(SRS1)
Frequency(㎒) : 3 840.00
Channel : 656000
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 579.80	H	12.16	19.56	-43.50	-50.90	-13.00	37.90
	11 372.40	H	13.27	24.98	-33.39	-45.10	-13.00	32.10
	15 160.10	H	14.10	31.80	-28.60	-46.30	-13.00	33.30
	18 948.20	V	11.50	32.18	-27.12	-47.80	-13.00	34.80

Test mode : 5G NR n77(Upper)(PC3)(SRS1)
Frequency(㎒) : 3 930.00
Channel : 662000
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 759.70	H	12.31	19.93	-41.98	-49.60	-13.00	36.60
	11 639.80	H	13.24	25.62	-34.02	-46.40	-13.00	33.40
	15 520.60	H	14.27	32.24	-28.53	-46.50	-13.00	33.50
	19 397.00	V	11.50	32.23	-26.57	-47.30	-13.00	34.30

Test mode: 5G NR n77(Upper)(PC3)(SRS2) DFT-s-OFDM

Test mode : 5G NR n77(Upper)(PC3)(SRS2)
Frequency(㎒) : 3 750.00
Channel : 650000
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 403.40	V	11.96	19.59	-41.77	-49.40	-13.00	36.40
	11 100.80	H	13.22	24.70	-32.72	-44.20	-13.00	31.20
	14 798.90	H	14.04	30.90	-27.94	-44.80	-13.00	31.80
	18 503.80	V	11.30	31.82	-27.78	-48.30	-13.00	35.30

Test mode : 5G NR n77(Upper)(PC3)(SRS2)
Frequency(㎒) : 3 840.00
Channel : 656000
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 580.50	H	12.16	19.56	-43.10	-50.50	-13.00	37.50
	11 371.00	H	13.27	24.97	-32.50	-44.20	-13.00	31.20
	15 162.90	V	14.10	31.80	-28.40	-46.10	-13.00	33.10
	18 948.20	V	11.40	32.18	-27.02	-47.80	-13.00	34.80

Test mode : 5G NR n77(Upper)(PC3)(SRS2)
Frequency(㎒) : 3 930.00
Channel : 662000
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 763.90	V	12.31	19.94	-41.47	-49.10	-13.00	36.10
	11 639.80	V	13.24	25.62	-33.42	-45.80	-13.00	32.80
	15 519.20	H	14.27	32.23	-30.74	-48.70	-13.00	35.70
	19 397.00	V	11.50	32.23	-26.57	-47.30	-13.00	34.30

Test mode: 5G NR n77(Upper)(PC3)(SRS3) DFT-s-OFDM

Test mode : 5G NR n77(Upper)(PC3)(SRS3)
Frequency(㎒) : 3 707.52
Channel : 647168
Bandwidth(㎒) : 15
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 401.30	H	11.96	19.59	-41.97	-49.60	-13.00	36.60
	11 103.60	V	13.22	24.70	-31.92	-43.40	-13.00	30.40
	14 800.30	V	14.04	30.25	-30.29	-46.50	-13.00	33.50
	18 499.40	V	11.30	31.82	-28.18	-48.70	-13.00	35.70

Test mode : 5G NR n77(Upper)(PC3)(SRS3)
Frequency(㎒) : 3 840.00
Channel : 656000
Bandwidth(㎒) : 15
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 668.00	V	12.23	20.01	-43.02	-50.80	-13.00	37.80
	11 498.40	H	13.30	25.31	-31.89	-43.90	-13.00	30.90
	15 330.90	H	14.20	31.71	-29.69	-47.20	-13.00	34.20
	19 162.70	V	11.50	32.34	-27.66	-48.50	-13.00	35.50

Test mode : 5G NR n77(Upper)(PC3)(SRS3)
Frequency(㎒) : 3 972.48
Channel : 664832
Bandwidth(㎒) : 15
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 929.80	V	12.44	20.12	-40.32	-48.00	-13.00	35.00
	11 895.30	H	13.14	25.64	-33.90	-46.40	-13.00	33.40
	15 859.40	H	13.80	33.42	-27.38	-47.00	-13.00	34.00
	19 827.10	V	11.40	33.13	-25.87	-47.60	-13.00	34.60

Test mode: 5G NR n77(IC)(PC3) DFT-s-OFDM

Test mode : 5G NR n77(IC)(PC3)
Frequency(㎒) : 3 455.01
Channel : 630334
Bandwidth(㎒) : 10
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 900.10	V	11.32	18.63	-41.49	-48.80	-30.00	18.80
	10 350.40	H	13.17	23.73	-32.14	-42.70	-30.00	12.70
	13 801.40	H	14.28	28.64	-26.34	-40.70	-30.00	10.70
	17 250.30	V	13.70	32.72	-24.08	-43.10	-30.00	13.10

Test mode : 5G NR n77(IC)(PC3)
Frequency(㎒) : 3 675.00
Channel : 645000
Bandwidth(㎒) : 10
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 341.80	V	11.88	19.36	-34.62	-42.10	-30.00	12.10
	11 011.20	H	13.20	24.45	-29.55	-40.80	-30.00	10.80
	14 679.90	V	14.06	30.73	-26.13	-42.80	-30.00	12.80

Test mode : 5G NR n77(IC)(PC3)
Frequency(㎒) : 3 894.99
Channel : 659666
Bandwidth(㎒) : 10
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 780.70	H	12.32	19.96	-38.66	-46.30	-30.00	16.30
	11 669.20	H	13.23	25.66	-30.07	-42.50	-30.00	12.50
	15 559.80	H	14.22	32.28	-25.94	-44.00	-30.00	14.00

Test mode: 5G NR n77(IC)(PC3)(SRS1) DFT-s-OFDM

Test mode : 5G NR n77(IC)(PC3)(SRS1)
Frequency(㎒) : 3 500.01
Channel : 633334
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 899.40	H	11.32	18.39	-43.03	-50.10	-30.00	20.10
	10 350.40	V	13.17	23.73	-36.94	-47.50	-30.00	17.50
	13 800.00	H	14.28	29.18	-30.60	-45.50	-30.00	15.50
	17 246.80	H	13.69	32.84	-28.65	-47.80	-30.00	17.80

Test mode : 5G NR n77(IC)(PC3)(SRS1)
Frequency(㎒) : 3 675.00
Channel : 645000
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 248.70	V	11.75	18.87	-41.58	-48.70	-30.00	18.70
	10 875.40	V	13.20	24.69	-35.51	-47.00	-30.00	17.00
	14 500.00	V	14.10	30.16	-29.84	-45.90	-30.00	15.90
	18 125.40	V	11.30	31.25	-28.05	-48.00	-30.00	18.00

Test mode : 5G NR n77(IC)(PC3)(SRS1)
Frequency(㎒) : 3 849.99
Channel : 656666
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 599.40	H	12.18	19.59	-42.59	-50.00	-30.00	20.00
	11 399.70	V	13.28	25.01	-34.07	-45.80	-30.00	15.80
	15 199.30	H	14.12	31.82	-29.10	-46.80	-30.00	16.80
	18 998.80	V	11.40	32.42	-27.88	-48.90	-30.00	18.90

Test mode: 5G NR n77(IC)(PC3)(SRS2) DFT-s-OFDM

Test mode : 5G NR n77(IC)(PC3)(SRS2)
Frequency(㎒) : 3 500.01
Channel : 633334
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 900.10	V	11.32	18.63	-43.19	-50.50	-30.00	20.50
	10 350.40	H	13.17	23.73	-37.44	-48.00	-30.00	18.00
	13 803.50	V	14.28	28.65	-29.83	-44.20	-30.00	14.20
	17 250.30	V	13.70	32.72	-28.08	-47.10	-30.00	17.10

Test mode : 5G NR n77(IC)(PC3)(SRS2)
Frequency(㎒) : 3 675.00
Channel : 645000
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 248.70	H	11.75	18.87	-42.68	-49.80	-30.00	19.80
	10 874.70	H	13.20	24.69	-32.81	-44.30	-30.00	14.30
	14 501.40	H	14.10	29.71	-29.99	-45.60	-30.00	15.60
	18 124.30	V	11.30	31.25	-28.65	-48.60	-30.00	18.60

Test mode : 5G NR n77(IC)(PC3)(SRS2)
Frequency(㎒) : 3 849.99
Channel : 656666
Bandwidth(㎒) : 100
RB Size/Offset 1/1

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 603.60	H	12.18	19.94	-42.04	-49.80	-30.00	19.80
	11 399.70	H	13.28	25.01	-33.37	-45.10	-30.00	15.10
	15 200.70	H	14.12	31.60	-29.02	-46.50	-30.00	16.50
	18 999.90	H	11.50	32.42	-29.38	-50.30	-30.00	20.30

Test mode: 5G NR n77(IC)(PC3)(SRS3) DFT-s-OFDM

Test mode : 5G NR n77(IC)(PC3)(SRS3)
Frequency(㎒) : 3 485.01
Channel : 632334
Bandwidth(㎒) : 70
RB Size/Offset 1/95

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	6 970.80	V	11.38	18.73	-40.95	-48.30	-30.00	18.30
	10 455.40	V	13.19	24.21	-35.58	-46.60	-30.00	16.60
	13 940.00	V	14.36	29.06	-31.00	-45.70	-30.00	15.70
	17 426.00	H	13.98	34.33	-27.25	-47.60	-30.00	17.60

Test mode : 5G NR n77(IC)(PC3)(SRS3)
Frequency(㎒) : 3 675.00
Channel : 645000
Bandwidth(㎒) : 70
RB Size/Offset 1/95

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 349.50	V	11.89	19.37	-40.72	-48.20	-30.00	18.20
	11 025.90	H	13.21	24.48	-34.43	-45.70	-30.00	15.70
	14 700.20	H	14.06	30.77	-29.89	-46.60	-30.00	16.60
	18 375.10	V	11.30	31.50	-28.80	-49.00	-30.00	19.00

Test mode : 5G NR n77(IC)(PC3)(SRS3)
Frequency(㎒) : 3 864.99
Channel : 657666
Bandwidth(㎒) : 70
RB Size/Offset 1/95

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 732.40	V	12.29	19.90	-40.89	-48.50	-30.00	18.50
	11 595.00	H	13.26	25.04	-33.62	-45.40	-30.00	15.40
	15 459.70	V	14.28	31.63	-29.25	-46.60	-30.00	16.60
	19 322.20	V	11.50	32.59	-26.61	-47.70	-30.00	17.70

Note.
1. E.R.P & E.I.R.P(㏈ m) = Substitute Level(㏈) + Antenna gain(㏈ i&㏈ d) - C.L(Cable loss) (㏈)

Test mode: EN-DC (Worst case) DFT-s-OFDM

Test mode : 13A-n2A
Frequency(㎒) : 1 882.5
Channel : 376500
Bandwidth(㎒) : 10 (LTE), 20 (NR)
RB Size/Offset 1/0 (LTE), 1/1 (NR)

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	3 746.25	H	8.74	12.54	-46.40	-50.20	-13.00	37.20
	5 619.00	V	10.62	16.14	-45.68	-51.20	-13.00	38.20
	7 491.75	H	12.09	19.72	-41.37	-49.00	-13.00	36.00
	9 362.25	V	13.20	22.33	-38.67	-47.80	-13.00	34.80

Test mode : 66A-n5A
Frequency(㎒) : 841.5
Channel : 168300
Bandwidth(㎒) : 20 (LTE), 15 (NR)
RB Size/Offset 1/99 (LTE), 1/1 (NR)

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	1 668.40	H	5.69	8.70	-57.09	-60.10	-13.00	47.10
	2 502.00	V	6.01	10.87	-51.74	-56.60	-13.00	43.60
	3 335.60	V	7.97	12.03	-51.34	-55.40	-13.00	42.40
	4 171.60	H	9.34	13.14	-49.10	-52.90	-13.00	39.90

Test mode : 66A-n12A
Frequency(㎒) : 713.5
Channel : 142700
Bandwidth(㎒) : 20 (LTE), 5 (NR)
RB Size/Offset 1/99 (LTE), 1/1 (NR)

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	1 422.40	H	5.66	8.07	-59.59	-62.00	-13.00	49.00
	2 131.60	V	5.04	9.95	-52.89	-57.80	-13.00	44.80
	2 846.40	H	6.90	11.45	-48.05	-52.60	-13.00	39.60
	3 554.80	H	8.40	12.91	-52.39	-56.90	-13.00	43.90

Test mode : 12A-n25A
Frequency(㎒) : 1 882.5
Channel : 376500
Bandwidth(㎒) : 1.4 (LTE), 20 (NR)
RB Size/Offset 1/5 (LTE), 1/1 (NR)

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	3 741.75	V	8.74	12.54	-48.10	-51.90	-13.00	38.90
	5 618.25	V	10.62	16.14	-46.78	-52.30	-13.00	39.30
	7 490.25	V	12.09	19.72	-42.97	-50.60	-13.00	37.60
	9 360.75	H	13.20	22.33	-38.97	-48.10	-13.00	35.10

Test mode : 66A-n30A
Frequency(㎒) : 2 307.5
Channel : 461500
Bandwidth(㎒) : 20 (LTE), 5 (NR)
RB Size/Offset 1/99 (LTE), 1/1 (NR)

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	3 557.25	H	8.40	12.93	-46.77	-51.30	-40.00	11.30
	4 607.25	H	9.75	14.34	-51.71	-56.30	-40.00	16.30
	6 919.50	H	11.34	18.66	-45.28	-52.60	-40.00	12.60
	9 224.25	H	13.20	22.15	-42.35	-51.30	-40.00	11.30
	11 526.75	H	13.29	24.94	-37.65	-49.30	-40.00	9.30

Test mode : 66A-n41A
Frequency(㎒) : 2 540.01
Channel : 508002
Bandwidth(㎒) : 20 (LTE), 80 (NR)
RB Size/Offset 1/99 (LTE), 1/1 (NR)

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	3 557.25	H	8.40	12.93	-45.27	-49.80	-25.00	24.80
	4 992.00	V	10.29	15.07	-50.02	-54.80	-25.00	29.80
	7 488.00	V	12.08	19.71	-46.17	-53.80	-25.00	28.80
	9 984.00	V	13.10	23.73	-41.77	-52.40	-25.00	27.40
	12 479.25	V	13.20	27.01	-38.29	-52.10	-25.00	27.10

Test mode : 13A-n66A
Frequency(㎒) : 1 765.0
Channel : 353000
Bandwidth(㎒) : 10 (LTE), 30 (NR)
RB Size/Offset 1/0 (LTE), 1/1 (NR)

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	3 501.75	V	8.30	12.23	-53.67	-57.60	-13.00	44.60
	5 250.00	V	10.45	15.40	-50.45	-55.40	-13.00	42.40
	7 000.50	H	11.40	18.52	-44.98	-52.10	-13.00	39.10
	8 751.00	H	13.10	21.04	-44.06	-52.00	-13.00	39.00

Test mode : 66A-n71A
Frequency(㎒) : 665.5
Channel : 133100
Bandwidth(㎒) : 20 (LTE), 5 (NR)
RB Size/Offset 1/99 (LTE), 1/1 (NR)

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	1 327.20	H	4.99	7.82	-55.27	-58.10	-13.00	45.10
	1 989.20	H	4.73	9.60	-52.23	-57.10	-13.00	44.10
	2 652.00	H	6.40	11.21	-52.19	-57.00	-13.00	44.00
	3 315.20	V	7.93	12.01	-53.02	-57.10	-13.00	44.10

Test mode : 66A-n77/78A
Frequency(㎒) : 3 972.48
Channel : 664832
Bandwidth(㎒) : 20 (LTE), 15 (NR)
RB Size/Offset 1/99 (LTE), 1/19 (NR)

Mode	Frequency	Pol.	Antenna Gain	Cable loss	Substitute Level	Level	Limit	Margin
	[㎒]	[V/H]	[dBi]	[dB]	[dBm]	[dBm]	[dBm]	[dB]
QPSK	7 943.80	H	12.46	20.14	-40.82	-48.50	-13.00	35.50
	11 915.60	V	13.13	25.94	-30.79	-43.60	-13.00	30.60
	15 890.90	H	13.75	33.45	-25.90	-45.60	-13.00	32.60
	19 863.89	H	11.40	33.02	-29.48	-51.10	-13.00	38.10

8. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Spectrum Analyzer	R&S	FSV40-N	101462	24.10.12*
Spectrum Analyzer	R&S	FSVA40	101574	24.03.28
Spectrum Analyzer	AGILENT	N9040B	US55230151	24.07.03
Vector Signal Generator	R&S	SMBV100A	257566	24.07.04
Signal Generator	R&S	SMB100A	176206	24.01.19
Divider	Marki Microwave, Inc.	PD-0040	D0002	24.07.04
Wideband Radio Communication Tester	R&S	CMW500	141780	24.01.19
Wideband Radio Communication Tester	R&S	CMW500	132120	24.04.25
Temp & Humid Chamber	ESPEC CORP.	SH-642	93016978	24.01.19
High Pass Filter	Wainwright Instruments GmbH	WHKX10-900-1000-15000-40SS	11	24.07.04
High Pass Filter	Wainwright Instruments GmbH	WHKX12-2805-3000-18000-40SS	32	24.07.04
High Pass Filter	Wainwright Instruments GmbH	WHNX10-4050-4500-26500-40CC	SN3	24.10.16*
High Pass Filter	QOTANA TECHNOLOGIES	DBHF0508004000A	20070100016	24.07.04
Band Reject Filter	Wainwright Instruments GmbH	WRCTG12+16-2290-2300-2400-2410-75SS	SN1	24.10.12*
Bilog Antenna	Teseq GmbH	CBL 6112D	62027	24.11.17**
Bilog Antenna	ETS.LINDGREN	'3143B	228420	25.07.20
Horn Antenna	ETS-LINDGREN	3117	251528	24.02.02
Horn Antenna	ETS.LINDGREN	3117	227509	24.07.12
Horn Antenna	ETS-Lindgren	3116	00086635	24.03.20
Horn Antenna	ETS-LINDGREN	3116C	251516	24.02.02
Amplifier	SONOMA INSTRUMENT	310N	421822	24.10.12*
Amplifier	C&K Technologies, Inc.	BZR-00504000-551028-252525	27736	24.07.04
Amplifier	C&K Technologies, Inc.	BZRT-00504000-481055-382525	26299-27735	24.07.04
Antenna Mast	innco systems GmbH	MA4640-XP-ET	N/A	-
Controller	innco systems GmbH	CO3000	1175/4585031 9/P	-

*This equipment was calibrated during the test period, and was used after calibration.
**This equipment was calibrated during the test period, and was used before calibration.

End of test report