



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2205-1, XT2205-2
FCC ID : IHDT56AE7
STANDARD : 47 CFR Part 2, 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Apr. 26, 2022 ~ Jun. 03, 2022

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG240834K	Rev. 01	Initial issue of report	Jun. 06, 2022



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(c)(10)	Effective Radiated Power (5G NR n71)	ERP < 3 Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (5G NR n70)	EIRP < 1Watt		
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n7, n41)	EIRP < 2Watt		
3.5	§27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(h) §27.53(g)	Conducted Band Edge Measurement (5G NR n70) (5G NR n71)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n7, n41)	§27.53(m)(4)		
3.8	§2.1051 §27.53(h) §27.53(g)	Conducted Spurious Emission (5G NR n70) (5G NR n71)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n7, n41)	< 55+10log ₁₀ (P[Watts])		
3.9	§27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(h) §27.53(g)	Radiated Spurious Emission (5G NR n70) (5G NR n71)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 14.00 dB at 7925.310 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n7, n41)	< 55+10log ₁₀ (P[Watts])		

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2205-1, XT2205-2
FCC ID	IHDT56AE7
IMEI Code	Conducted : 355486330007578/351397430007982 Radiation : 357910940014326
HW Version	DVT2
SW Version	S2ST32.48
EUT Stage	Identical Prototype

Remark:

1. Only 5G NR bands are tested in this report, all the other RF bands are tested in the other reports separately.
2. The two models XT2205-1 and XT2205-2 are just to differentiate the market, the others are the same.

1.4 Specification of Accessory

Specification of Accessory				
AC Adapter 1	Brand Name	Motorola (Salom)	Model Name	MC-301
AC Adapter 2	Brand Name	Motorola (Acbel)	Model Name	MC-301
Battery	Brand Name	Motorola (ATL)	Model Name	NF50
USB Cable 1	Brand Name	Motorola(Saibao)	Model Name	SC18D13215
USB Cable 2	Brand Name	Motorola(Cabletech)	Model Name	SC18D13216
USB Cable 3	Brand Name	Motorola(Luxshare)	Model Name	SC18D13217

1.5 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz 5G NR n71: 663 MHz ~ 698 MHz
Rx Frequency	5G NR n7 : 2620 MHz ~ 2690 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n70 : 1995 MHz ~ 2020 MHz 5G NR n71: 617 MHz ~ 652 MHz
SCS	n7, n41, n70, n71: 15kHz, 30kHz
Bandwidth	SCS 15kHz: n7 : 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz / 50MHz n41 : 10MHz / 15MHz / 20MHz / 30MHz / 40MHz / 50MHz n70: 5MHz / 10MHz / 15MHz n71: 5MHz / 10MHz / 15MHz / 20MHz SCS 30kHz: n7 : 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz / 50MHz n41 : 10MHz / 15MHz / 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz n70: 10MHz / 15MHz n71: 10MHz / 15MHz / 20MHz
Antenna Gain	<Ant.0> n70 : -5.0 dBi n71 : -9.0 dBi <Ant. 1> n70 : -7.0 dBi n71 : -8.5 dBi <Ant. 5> n41 : -5.0 dBi <Ant. 6> n41 : -5.4 dBi <Ant. 7> n41 : -10 dBi <Ant. 8> n7 : -8.5 dBi n41 : -8.5 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Note:

1. The maximum ERP/EIRP is calculated from max output power and antenna gain, only the maximum ERP/EIRP is shown in the report: 5G NR n71 for Ant.1, 5G NR n70 for Ant.0 and n41 for Ant.6 and n41_UL MIMO for Ant.(5+6).
2. 5G NR n41 supports UL MIMO mode.
3. 5G NR Bands support SA and NSA mode. The whole testing has assessed SA mode for n41/n70/n71 and NSA mode for n7 by referring to the higher conducted power for conducted test items.
4. For 5G NR n70 Bandwidth 20MHz / 25MHz for DLCA only.
5. The device supports ant.0/1 for 5G NR n70/71, only the test data of worst ant.1 is showed in the

report according to the maximum power.

6. The EN-DC mode combination could be referred to the product spec.
7. The device supports HPUE mode for 5G NR n41.
8. MIMO Antenna gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2]$.
9. For n41 MIMO mode, the conducted BE/Spurious are tested at single antenna port and add $10 \cdot \log(N_{ANT})$ according to KDB 662911 D01.

1.6 Modification of EUT

No modifications are made to the EUT during all test items.

1.7 Maximum ERP/EIRP Power and Emission Designator

5G NR n7 (EN DC_66A-n7A)		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.0296	4M48G7D	0.0231	4M47W7D
10	2505 ~ 2565	0.0296	9M27G7D	0.0229	9M30W7D
15	2507.5 ~ 2562.5	0.0292	14M1G7D	0.0231	14M1W7D
20	2510 ~ 2560	0.0294	18M9G7D	0.0232	18M9W7D
25	2512.5 ~ 2557.5	0.0283	23M7G7D	0.0220	23M8W7D
30	2515 ~ 2555	0.0289	28M6G7D	0.0226	28M6W7D
40	2520 ~ 2550	0.0286	38M6G7D	0.0225	38M6W7D
50	2525 ~ 2545	0.0288	48M2G7D	0.0230	48M1W7D

5G NR n41 SA SCS 15KHz		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2501.010 ~ 2685.000	0.1256	9M28G7D	0.1138	9M28W7D
15	2503.500 ~ 2682.495	0.1262	14M1G7D	0.1138	14M1W7D
20	2506.005 ~ 2679.990	0.1253	18M9G7D	0.1164	18M9W7D
30	2511.000 ~ 2674.995	0.1236	28M7G7D	0.1117	28M6W7D
40	2516.010 ~ 2670.000	0.1236	38M6G7D	0.1151	38M6W7D
50	2521.005 ~ 2664.990	0.1202	48M2G7D	0.1159	48M2W7D



5G NR n41 SA SCS 30KHz		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2501.01 ~ 2685.00	0.1202	8M60G7D	0.1219	8M59W7D
15	2503.50 ~ 2682.48	0.1197	13M6G7D	0.1253	13M6W7D
20	2506.02 ~ 2679.99	0.1197	18M2G7D	0.1183	18M2W7D
30	2511.00 ~ 2674.98	0.1019	27M8G7D	0.1074	27M9W7D
40	2516.01 ~ 2670.00	0.1125	37M7G7D	0.1146	37M8W7D
50	2521.02 ~ 2664.99	0.1102	47M5G7D	0.1089	47M4W7D
60	2526.00 ~ 2659.98	0.1084	57M9G7D	0.1094	57M8W7D
70	2531.01 ~ 2655.00	0.1086	67M4G7D	0.1225	67M5W7D
80	2536.02 ~ 2649.99	0.1102	77M5G7D	0.1216	77M5W7D
90	2541.00 ~ 2644.98	0.1143	87M3G7D	0.1219	87M5W7D
100	2546.01 ~ 2640.00	0.1084	97M3G7D	0.1091	97M4W7D

5G NR n41 UL MIMO SA SCS 15KHz		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2501.010 ~ 2685.000	0.5444	9M27G7D	0.2917	9M30W7D
15	2503.500 ~ 2682.495	0.5350	14M1G7D	0.2785	14M1W7D
20	2506.005 ~ 2679.990	0.5307	18M9G7D	0.2726	18M9W7D
30	2511.000 ~ 2674.995	0.3969	28M6G7D	0.2178	28M6W7D
40	2516.010 ~ 2670.000	0.4089	38M6G7D	0.2252	38M6W7D
50	2521.005 ~ 2664.990	0.4187	48M3G7D	0.2244	48M2W7D



5G NR n41 UL MIMO SA SCS 30KHz		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2501.01 ~ 2685.00	0.4486	8M59G7D	0.2517	8M60W7D
15	2503.50 ~ 2682.48	0.4507	13M6G7D	0.2617	13M6W7D
20	2506.02 ~ 2679.99	0.4453	18M2G7D	0.2589	18M2W7D
30	2511.00 ~ 2674.98	0.4380	27M8G7D	0.2550	27M9W7D
40	2516.01 ~ 2670.00	0.4715	37M9G7D	0.2689	37M9W7D
50	2521.02 ~ 2664.99	0.4737	47M5G7D	0.2581	47M5W7D
60	2526.00 ~ 2659.98	0.4744	57M9G7D	0.2639	57M8W7D
70	2531.01 ~ 2655.00	0.4810	67M5G7D	0.2633	67M5W7D
80	2536.02 ~ 2649.99	0.4841	77M5G7D	0.2570	77M6W7D
90	2541.00 ~ 2644.98	0.5163	87M4G7D	0.2605	87M5W7D
100	2546.01 ~ 2640.00	0.4777	97M6G7D	0.2734	97M7W7D

5G NR n70 SA		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	1697.5 ~ 1707.5	0.0617	4M48G7D	0.0486	4M47W7D
10	1700.0 ~ 1705.0	0.0619	9M27G7D	0.0480	9M27W7D
15	1702.5	0.0612	14M1G7D	0.0476	14M1W7D

5G NR n71 SA		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	665.5 ~ 695.5	0.0194	4M48G7D	0.0152	4M47W7D
10	668 ~ 693	0.0195	9M28G7D	0.0152	9M27W7D
15	670.5 ~ 690.5	0.0196	14M1G7D	0.0155	14M1W7D
20	673 ~ 688	0.0195	18M9G7D	0.0153	18M9W7D

Note :

1. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.
2. For 5G NR n7/70/71, the conducted test items were performed with SCS15KHz cover SCS30KHz according to the maximum power..

1.8 Testing Location

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH01-SZ	CN1256	421272

1.9 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24

1.10 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 27
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases were recorded in this report.

The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

SCS 15KHz

Test Items	5G NR	Bandwidth (MHz)						Modulation					RB #		Test Channel		
		5	10	15	20	25	30-50	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
Max. Output Power	n7	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n41	-	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v
	n41 UL MIMO	-	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v
	n70	v	v	v			-	v	v	v	v	v	v	v	v	v	v
	n71	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n7				v			v	v				v	v	v	v	v
	n41	-			v	-		v	v				v	v	v	v	v
	n41 UL MIMO	-			v	-		v	v				v	v	v	v	v
	n70		v				-	v	v				v	v	v	v	v
	n71				v	-	-	v	v				v	v	v	v	v
26dB and 99% Bandwidth	n7	v	v	v	v	v	v	v	v	v	v	v		v		v	
	n41	-	v	v	v	-	v	v	v	v	v	v		v		v	
	n41 UL MIMO	-	v	v	v	-	v	v	v	v	v	v		v		v	
	n70	v	v	v			-	v	v	v	v	v		v		v	
	n71	v	v	v	v	-	-	v	v	v	v	v		v		v	



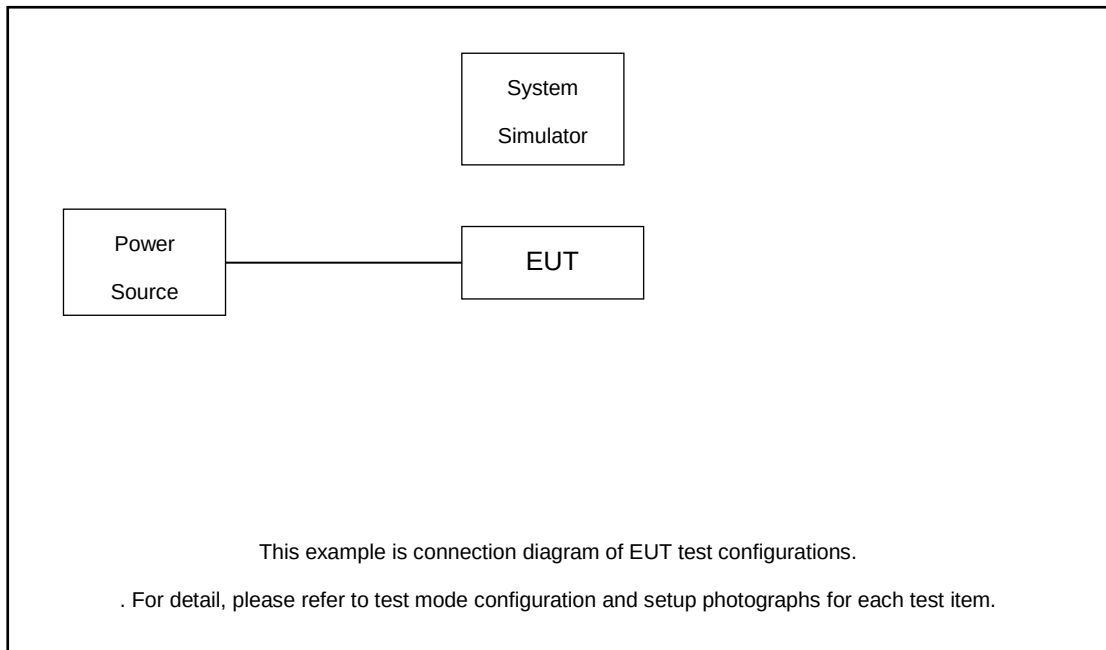
Test Items	Band	Bandwidth (MHz)						Modulation					RB #		Test Channel		
		5	10	15	20	25	30-50	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
Conducted Band Edge	n7	v			v		v	v	v				v	v	v		v
	n41	-	v			-	v	v	v				v	v	v		v
	n41 UL MIMO	-	v			-	v	v	v				v	v	v		v
	n70	v	v	v			-	v	v				v	v	v		v
	n71	v	v		v	-	-	v	v				v	v	v		v
Conducted Spurious Emission	n7	v			v		v	v	v				v		v	v	v
	n41	-	v			-	v	v	v				v		v	v	v
	n41 UL MIMO	-	v			-	v	v	v				v		v	v	v
	n70	v	v	v			-	v	v				v		v	v	v
	n71	v	v		v	-	-	v	v				v		v	v	v
Frequency Stability	n7				v				v					v		v	
	n41	-			v	-			v					v		v	
	n41 UL MIMO	-			v	-			v					v		v	
	n70		v				-		v					v		v	
	n71				v	-	-		v					v		v	
E.R.P / E.I.R.P	n7	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n41	-	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v
	n41 UL MIMO	-	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v
	n70	v	v	v			-	v	v	v	v	v	v	v	v	v	v
	n71	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n7	Worst Case													v	v	v
	n41	Worst Case													v	v	v
	n41 UL MIMO	Worst Case													v	v	v
	n70	Worst Case													v	v	v
	n71	Worst Case													v	v	v
Note	1. The mark “v “ means that this configuration is chosen for testing 2. The mark “-“ means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. 5G NR supports SA and NSA mode (refer to the Operation Description), all the EN-DC modes are tested, and according to the maximum power, only show the worst EN-DC mode in the report. 5. All modulations (BPSK/QPSK/16QAM/64QAM/256QAM) have been tested, and only the worst test results are shown in the report . 6. Frequency Stability : Normal Voltage = 3.89V ; Low Voltage =3.6V. ; High Voltage =4.48V																



SCS 30KHz

Test Items	5G NR	Bandwidth (MHz)						Modulation					RB #		Test Channel		
		10	15	20	30	40-90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
Max. Output Power	n41	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n41 UL MIMO	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n41			v				v	v				v	v	v	v	v
	n41 UL MIMO			v				v	v				v	v	v	v	v
26dB and 99% Bandwidth	n41	v	v	v	v	v	v	v	v	v	v	v		v		v	
	n41 UL MIMO	v	v	v	v	v	v	v	v	v	v	v		v		v	
Conducted Band Edge	n41	v				v	v	v	v				v	v	v		v
	n41 UL MIMO	v				v	v	v	v				v	v	v		v
Conducted Spurious Emission	n41	v				v	v	v	v				v		v	v	v
	n41 UL MIMO	v				v	v	v	v				v		v	v	v
Frequency Stability	n41			v					v					v		v	
	n41 UL MIMO			v					v					v		v	
E.R.P / E.I.R.P	n41	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n41 UL MIMO	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n41	Worst Case													v	v	v
	n41 UL MIMO	Worst Case													v	v	v
Note	1. The mark “v ” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. All modulations (BPSK/QPSK/16QAM/64QAM/256QAM) have been tested, and only the worst test results are shown in the report . 5. Frequency Stability : Normal Voltage = 3.89V ; Low Voltage =3.6V. ; High Voltage =4.48V																

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss

Offset = RF cable loss

Following shows an offset computation example with cable loss 8 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 8 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

5G NR n7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	529000	531000	533000
	Frequency	2525	2535	2545
40	Channel	528000	531000	534000
	Frequency	2520	2535	2550
30	Channel	527000	531000	535000
	Frequency	2515	2535	2555
25	Channel	526500	531000	535500
	Frequency	2512.5	2535	2557.5
20	Channel	526000	531000	536000
	Frequency	2510	2535	2560
15	Channel	525500	531000	536500
	Frequency	2507.5	2535	2562.5
10	Channel	525000	531000	53700
	Frequency	2505	2535	2565
5	Channel	524500	531000	537500
	Frequency	2502.5	2535	2567.5

5G NR n41 Channel and Frequency List – SCS 15KHz				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	504201	518601	532998
	Frequency	2521.005	2593.005	2664.99
40	Channel	503202	518601	534000
	Frequency	2516.01	2593.005	2670
30	Channel	502200	518601	5349999
	Frequency	2511	2593.005	2674.995
20	Channel	501201	518601	535998
	Frequency	2506.005	2593.005	2679.99
15	Channel	500700	518601	536499
	Frequency	2503.5	2593.005	2682.495
10	Channel	500202	518601	537000
	Frequency	2501.01	2593.005	2685



5G NR n41 Channel and Frequency List – SCS 30KHz				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
70	Channel	506202	518598	531000
	Frequency	2531.01	2592.99	2655
60	Channel	505200	518598	531996
	Frequency	2526	2592.99	2659.98
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99
40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
30	Channel	502200	518598	534996
	Frequency	2511	2592.99	2674.98
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99
15	Channel	500700	518598	536496
	Frequency	2503.5	2592.99	2682.48
10	Channel	500202	518598	537000
	Frequency	2501.01	2592.99	2685

5G NR n70 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	400500		
	Frequency	1702.5		
10	Channel	400000	400500	401000
	Frequency	1700	1702.5	1705
5	Channel	399500	400500	401500
	Frequency	1697.5	1702.5	1707.5



5G NR n71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	125400	126900	128400
	Frequency	673	680.5	688
15	Channel	124900	126900	128900
	Frequency	670.5	680.5	690.5
10	Channel	124400	126900	129400
	Frequency	668	680.5	693
5	Channel	123900	126900	129900
	Frequency	665.5	680.5	695.5

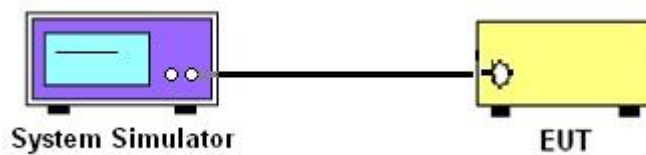
3 Conducted Test Items

3.1 Measuring Instruments

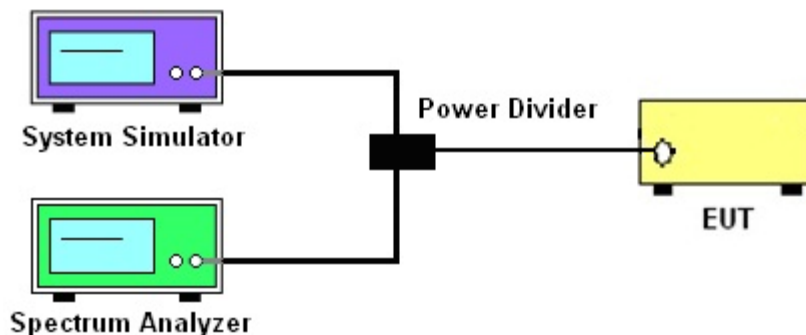
See list of measuring instruments of this test report.

3.2 Test Setup

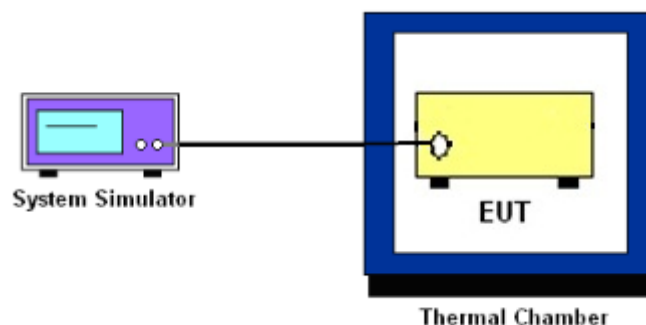
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 3 Watts for 5G NR n71.

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n7 and n41.

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n70.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

9. For 5G NR n7/n41, the other 40 dB, and 55 dB have additionally applied same calculation above.
10. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For 5G NR n7/ n41:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.
11. For 5G NR n7/ n41
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

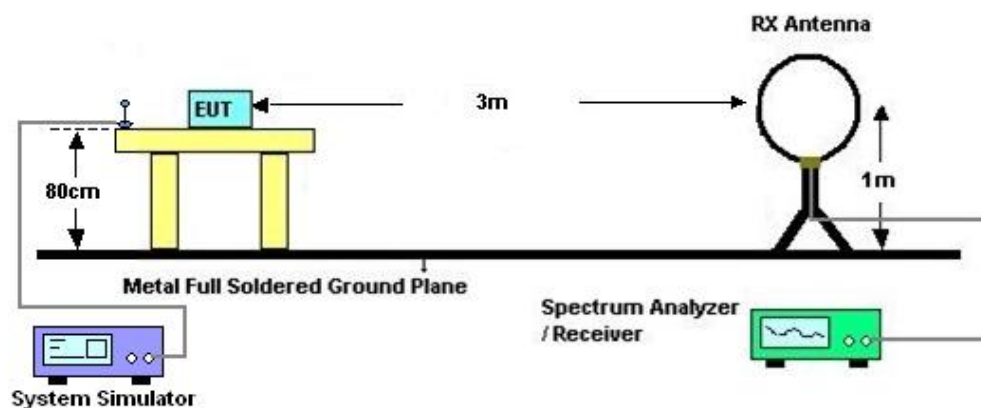
4 Radiated Test Items

4.1 Measuring Instruments

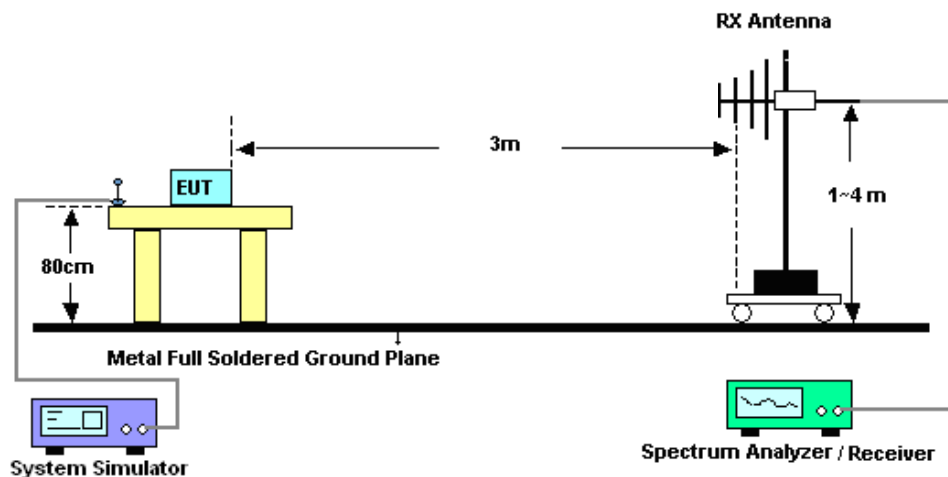
See list of measuring instruments of this test report.

4.2 Test Setup

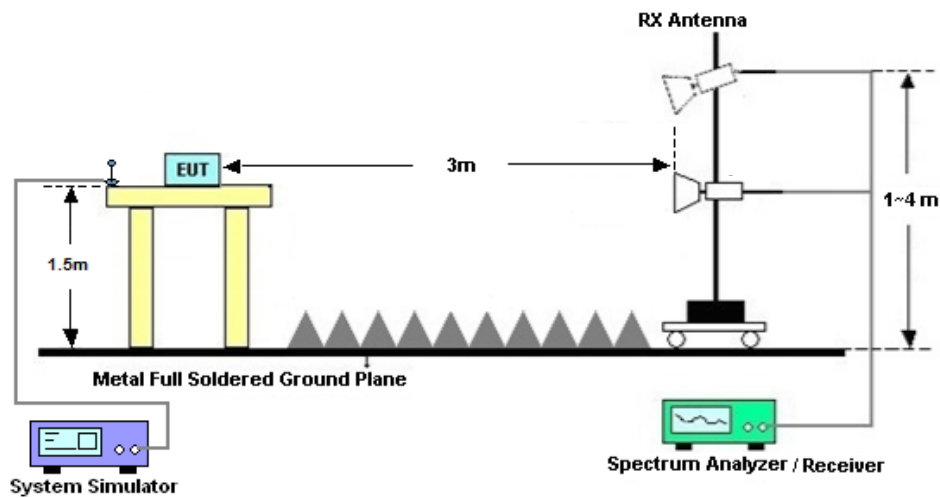
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For 5G NR n7/ n41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

13. For 5G NR n7/ n41:

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 14, 2021	Apr. 26, 2022~ Jun. 03, 2022	Jul. 13, 2022	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 25, 2021	Apr. 26, 2022~ Jun. 03, 2022	Oct. 24, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2021	Apr. 26, 2022~ Jun. 03, 2022	Dec. 24, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Apr. 26, 2022~ Jun. 03, 2022	Jul. 13, 2022	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2021	May 11, 2022	Dec. 26, 2022	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2021	May 11, 2022	Jun. 21, 2022	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 22, 2021	May 11, 2022	Oct. 21, 2022	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Sep. 28, 2021	May 11, 2022	Sep. 27, 2022	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 08, 2022	May 11, 2022	Apr. 07, 2023	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 10, 2022	May 11, 2022	Apr. 09, 2023	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 06, 2022	May 11, 2022	Apr. 05, 2023	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 22, 2021	May 11, 2022	Oct. 21, 2022	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 13, 2021	May 11, 2022	Jul. 12, 2022	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	May 11, 2022	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 11, 2022	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 11, 2022	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required

6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	± 1.34 dB
Conducted Emissions	± 1.34 dB
Occupied Channel Bandwidth	± 0.13 %

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.48dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.53dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.02dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Jung Kuo	Temperature :	22~23°C
		Relative Humidity :	40~42%

FR1 N7

LTE Band: 66, LTE BW: 10M, LTE ARFCN: 66886

Transmitter Conducted Output Power and ERP/EIRP, ($G_T - L_C$) = -8.5dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
7	15	5	524500	2502.5	DFT-s-OFDM PI/2 BPSK	12@6	22.23	13.73	0.0236
7	15	5	524500	2502.5	DFT-s-OFDM PI/2 BPSK	1@1	22.87	14.37	0.0274
7	15	5	524500	2502.5	DFT-s-OFDM PI/2 BPSK	1@23	22.83	14.33	0.0271
7	15	5	524500	2502.5	DFT-s-OFDM QPSK	12@6	22.87	14.37	0.0274
7	15	5	524500	2502.5	DFT-s-OFDM QPSK	1@1	22.21	13.71	0.0235
7	15	5	524500	2502.5	DFT-s-OFDM QPSK	1@23	22.15	13.65	0.0232
7	15	5	524500	2502.5	DFT-s-OFDM 16 QAM	12@6	21.77	13.27	0.0212
7	15	5	524500	2502.5	DFT-s-OFDM 16 QAM	1@1	21.17	12.67	0.0185
7	15	5	524500	2502.5	DFT-s-OFDM 16 QAM	1@23	21.09	12.59	0.0182
7	15	5	524500	2502.5	DFT-s-OFDM 64 QAM	12@6	20.29	11.79	0.0151
7	15	5	524500	2502.5	DFT-s-OFDM 64 QAM	1@1	19.82	11.32	0.0136
7	15	5	524500	2502.5	DFT-s-OFDM 64 QAM	1@23	19.78	11.28	0.0134
7	15	5	524500	2502.5	DFT-s-OFDM 256 QAM	12@6	18.73	10.23	0.0105
7	15	5	524500	2502.5	DFT-s-OFDM 256 QAM	1@1	18.48	9.98	0.0100
7	15	5	524500	2502.5	DFT-s-OFDM 256 QAM	1@23	18.52	10.02	0.0100
7	15	5	524500	2502.5	CP-OFDM QPSK	13@6	21.24	12.74	0.0188
7	15	5	524500	2502.5	CP-OFDM QPSK	1@1	20.82	12.32	0.0171
7	15	5	524500	2502.5	CP-OFDM QPSK	1@23	20.69	12.19	0.0166
7	15	5	531000	2535	DFT-s-OFDM PI/2 BPSK	12@6	22.88	14.38	0.0274
7	15	5	531000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.96	14.46	0.0279
7	15	5	531000	2535	DFT-s-OFDM PI/2 BPSK	1@23	22.73	14.23	0.0265
7	15	5	531000	2535	DFT-s-OFDM QPSK	12@6	22.99	14.49	0.0281
7	15	5	531000	2535	DFT-s-OFDM QPSK	1@1	22.32	13.82	0.0241
7	15	5	531000	2535	DFT-s-OFDM QPSK	1@23	22.26	13.76	0.0238
7	15	5	531000	2535	DFT-s-OFDM 16 QAM	12@6	21.87	13.37	0.0217
7	15	5	531000	2535	DFT-s-OFDM 16 QAM	1@1	21.21	12.71	0.0187
7	15	5	531000	2535	DFT-s-OFDM 16 QAM	1@23	21.16	12.66	0.0185
7	15	5	531000	2535	DFT-s-OFDM 64 QAM	12@6	20.38	11.88	0.0154

7	15	5	531000	2535	DFT-s-OFDM 64 QAM	1@1	19.91	11.41	0.0138
7	15	5	531000	2535	DFT-s-OFDM 64 QAM	1@23	19.86	11.36	0.0137
7	15	5	531000	2535	DFT-s-OFDM 256 QAM	12@6	18.85	10.35	0.0108
7	15	5	531000	2535	DFT-s-OFDM 256 QAM	1@1	18.66	10.16	0.0104
7	15	5	531000	2535	DFT-s-OFDM 256 QAM	1@23	18.54	10.04	0.0101
7	15	5	531000	2535	CP-OFDM QPSK	13@6	21.32	12.82	0.0191
7	15	5	531000	2535	CP-OFDM QPSK	1@1	20.88	12.38	0.0173
7	15	5	531000	2535	CP-OFDM QPSK	1@23	20.8	12.3	0.0170
7	15	5	537500	2567.5	DFT-s-OFDM PI/2 BPSK	12@6	23.08	14.58	0.0287
7	15	5	537500	2567.5	DFT-s-OFDM PI/2 BPSK	1@1	23.06	14.56	0.0286
7	15	5	537500	2567.5	DFT-s-OFDM PI/2 BPSK	1@23	22.67	14.17	0.0261
7	15	5	537500	2567.5	DFT-s-OFDM QPSK	12@6	23.21	14.71	0.0296
7	15	5	537500	2567.5	DFT-s-OFDM QPSK	1@1	22.43	13.93	0.0247
7	15	5	537500	2567.5	DFT-s-OFDM QPSK	1@23	22.42	13.92	0.0247
7	15	5	537500	2567.5	DFT-s-OFDM 16 QAM	12@6	22.13	13.63	0.0231
7	15	5	537500	2567.5	DFT-s-OFDM 16 QAM	1@1	21.39	12.89	0.0195
7	15	5	537500	2567.5	DFT-s-OFDM 16 QAM	1@23	21.43	12.93	0.0196
7	15	5	537500	2567.5	DFT-s-OFDM 64 QAM	12@6	20.63	12.13	0.0163
7	15	5	537500	2567.5	DFT-s-OFDM 64 QAM	1@1	20.04	11.54	0.0143
7	15	5	537500	2567.5	DFT-s-OFDM 64 QAM	1@23	20.07	11.57	0.0144
7	15	5	537500	2567.5	DFT-s-OFDM 256 QAM	12@6	18.99	10.49	0.0112
7	15	5	537500	2567.5	DFT-s-OFDM 256 QAM	1@1	18.75	10.25	0.0106
7	15	5	537500	2567.5	DFT-s-OFDM 256 QAM	1@23	18.76	10.26	0.0106
7	15	5	537500	2567.5	CP-OFDM QPSK	13@6	21.51	13.01	0.0200
7	15	5	537500	2567.5	CP-OFDM QPSK	1@1	20.96	12.46	0.0176
7	15	5	537500	2567.5	CP-OFDM QPSK	1@23	20.89	12.39	0.0173
7	15	10	525000	2505	DFT-s-OFDM PI/2 BPSK	25@12	22.23	13.73	0.0236
7	15	10	525000	2505	DFT-s-OFDM PI/2 BPSK	1@1	22.91	14.41	0.0276
7	15	10	525000	2505	DFT-s-OFDM PI/2 BPSK	1@50	22.46	13.96	0.0249
7	15	10	525000	2505	DFT-s-OFDM QPSK	25@12	22.91	14.41	0.0276
7	15	10	525000	2505	DFT-s-OFDM QPSK	1@1	22.27	13.77	0.0238
7	15	10	525000	2505	DFT-s-OFDM QPSK	1@50	22.25	13.75	0.0237
7	15	10	525000	2505	DFT-s-OFDM 16 QAM	25@12	21.83	13.33	0.0215
7	15	10	525000	2505	DFT-s-OFDM 16 QAM	1@1	21.19	12.69	0.0186
7	15	10	525000	2505	DFT-s-OFDM 16 QAM	1@50	21.15	12.65	0.0184
7	15	10	525000	2505	DFT-s-OFDM 64 QAM	25@12	20.36	11.86	0.0153

7	15	10	525000	2505	DFT-s-OFDM 64 QAM	1@1	19.89	11.39	0.0138
7	15	10	525000	2505	DFT-s-OFDM 64 QAM	1@50	19.94	11.44	0.0139
7	15	10	525000	2505	DFT-s-OFDM 256 QAM	25@12	18.64	10.14	0.0103
7	15	10	525000	2505	DFT-s-OFDM 256 QAM	1@1	18.56	10.06	0.0101
7	15	10	525000	2505	DFT-s-OFDM 256 QAM	1@50	18.59	10.09	0.0102
7	15	10	525000	2505	CP-OFDM QPSK	26@13	21.3	12.8	0.0191
7	15	10	525000	2505	CP-OFDM QPSK	1@1	20.91	12.41	0.0174
7	15	10	525000	2505	CP-OFDM QPSK	1@50	20.91	12.41	0.0174
7	15	10	531000	2535	DFT-s-OFDM PI/2 BPSK	25@12	22.91	14.41	0.0276
7	15	10	531000	2535	DFT-s-OFDM PI/2 BPSK	1@1	23.02	14.52	0.0283
7	15	10	531000	2535	DFT-s-OFDM PI/2 BPSK	1@50	22.44	13.94	0.0248
7	15	10	531000	2535	DFT-s-OFDM QPSK	25@12	23	14.5	0.0282
7	15	10	531000	2535	DFT-s-OFDM QPSK	1@1	22.32	13.82	0.0241
7	15	10	531000	2535	DFT-s-OFDM QPSK	1@50	22.3	13.8	0.0240
7	15	10	531000	2535	DFT-s-OFDM 16 QAM	25@12	21.92	13.42	0.0220
7	15	10	531000	2535	DFT-s-OFDM 16 QAM	1@1	21.22	12.72	0.0187
7	15	10	531000	2535	DFT-s-OFDM 16 QAM	1@50	21.27	12.77	0.0189
7	15	10	531000	2535	DFT-s-OFDM 64 QAM	25@12	20.43	11.93	0.0156
7	15	10	531000	2535	DFT-s-OFDM 64 QAM	1@1	19.95	11.45	0.0140
7	15	10	531000	2535	DFT-s-OFDM 64 QAM	1@50	19.9	11.4	0.0138
7	15	10	531000	2535	DFT-s-OFDM 256 QAM	25@12	18.75	10.25	0.0106
7	15	10	531000	2535	DFT-s-OFDM 256 QAM	1@1	18.67	10.17	0.0104
7	15	10	531000	2535	DFT-s-OFDM 256 QAM	1@50	18.6	10.1	0.0102
7	15	10	531000	2535	CP-OFDM QPSK	26@13	21.41	12.91	0.0195
7	15	10	531000	2535	CP-OFDM QPSK	1@1	20.91	12.41	0.0174
7	15	10	531000	2535	CP-OFDM QPSK	1@50	20.97	12.47	0.0177
7	15	10	537000	2565	DFT-s-OFDM PI/2 BPSK	25@12	23.08	14.58	0.0287
7	15	10	537000	2565	DFT-s-OFDM PI/2 BPSK	1@1	22.92	14.42	0.0277
7	15	10	537000	2565	DFT-s-OFDM PI/2 BPSK	1@50	22.68	14.18	0.0262
7	15	10	537000	2565	DFT-s-OFDM QPSK	25@12	23.21	14.71	0.0296
7	15	10	537000	2565	DFT-s-OFDM QPSK	1@1	22.43	13.93	0.0247
7	15	10	537000	2565	DFT-s-OFDM QPSK	1@50	22.47	13.97	0.0249
7	15	10	537000	2565	DFT-s-OFDM 16 QAM	25@12	22.1	13.6	0.0229
7	15	10	537000	2565	DFT-s-OFDM 16 QAM	1@1	21.37	12.87	0.0194
7	15	10	537000	2565	DFT-s-OFDM 16 QAM	1@50	21.42	12.92	0.0196
7	15	10	537000	2565	DFT-s-OFDM 64 QAM	25@12	20.61	12.11	0.0163

7	15	10	537000	2565	DFT-s-OFDM 64 QAM	1@1	20.08	11.58	0.0144
7	15	10	537000	2565	DFT-s-OFDM 64 QAM	1@50	20.19	11.69	0.0148
7	15	10	537000	2565	DFT-s-OFDM 256 QAM	25@12	18.84	10.34	0.0108
7	15	10	537000	2565	DFT-s-OFDM 256 QAM	1@1	18.75	10.25	0.0106
7	15	10	537000	2565	DFT-s-OFDM 256 QAM	1@50	18.81	10.31	0.0107
7	15	10	537000	2565	CP-OFDM QPSK	26@13	21.57	13.07	0.0203
7	15	10	537000	2565	CP-OFDM QPSK	1@1	21.02	12.52	0.0179
7	15	10	537000	2565	CP-OFDM QPSK	1@50	21.01	12.51	0.0178
7	15	15	525500	2507.5	DFT-s-OFDM PI/2 BPSK	36@18	22.28	13.78	0.0239
7	15	15	525500	2507.5	DFT-s-OFDM PI/2 BPSK	1@1	22.56	14.06	0.0255
7	15	15	525500	2507.5	DFT-s-OFDM PI/2 BPSK	1@77	22.42	13.92	0.0247
7	15	15	525500	2507.5	DFT-s-OFDM QPSK	36@18	22.89	14.39	0.0275
7	15	15	525500	2507.5	DFT-s-OFDM QPSK	1@1	22.25	13.75	0.0237
7	15	15	525500	2507.5	DFT-s-OFDM QPSK	1@77	22.27	13.77	0.0238
7	15	15	525500	2507.5	DFT-s-OFDM 16 QAM	36@18	21.92	13.42	0.0220
7	15	15	525500	2507.5	DFT-s-OFDM 16 QAM	1@1	21.17	12.67	0.0185
7	15	15	525500	2507.5	DFT-s-OFDM 16 QAM	1@77	21.17	12.67	0.0185
7	15	15	525500	2507.5	DFT-s-OFDM 64 QAM	36@18	20.41	11.91	0.0155
7	15	15	525500	2507.5	DFT-s-OFDM 64 QAM	1@1	19.88	11.38	0.0137
7	15	15	525500	2507.5	DFT-s-OFDM 64 QAM	1@77	19.95	11.45	0.0140
7	15	15	525500	2507.5	DFT-s-OFDM 256 QAM	36@18	18.65	10.15	0.0104
7	15	15	525500	2507.5	DFT-s-OFDM 256 QAM	1@1	18.51	10.01	0.0100
7	15	15	525500	2507.5	DFT-s-OFDM 256 QAM	1@77	18.66	10.16	0.0104
7	15	15	525500	2507.5	CP-OFDM QPSK	39@19	21.42	12.92	0.0196
7	15	15	525500	2507.5	CP-OFDM QPSK	1@1	20.88	12.38	0.0173
7	15	15	525500	2507.5	CP-OFDM QPSK	1@77	20.73	12.23	0.0167
7	15	15	531000	2535	DFT-s-OFDM PI/2 BPSK	36@18	22.93	14.43	0.0277
7	15	15	531000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.64	14.14	0.0259
7	15	15	531000	2535	DFT-s-OFDM PI/2 BPSK	1@77	22.43	13.93	0.0247
7	15	15	531000	2535	DFT-s-OFDM QPSK	36@18	22.98	14.48	0.0281
7	15	15	531000	2535	DFT-s-OFDM QPSK	1@1	22.33	13.83	0.0242
7	15	15	531000	2535	DFT-s-OFDM QPSK	1@77	22.26	13.76	0.0238
7	15	15	531000	2535	DFT-s-OFDM 16 QAM	36@18	21.97	13.47	0.0222
7	15	15	531000	2535	DFT-s-OFDM 16 QAM	1@1	21.24	12.74	0.0188
7	15	15	531000	2535	DFT-s-OFDM 16 QAM	1@77	21.21	12.71	0.0187
7	15	15	531000	2535	DFT-s-OFDM 64 QAM	36@18	20.49	11.99	0.0158

7	15	15	531000	2535	DFT-s-OFDM 64 QAM	1@1	20.04	11.54	0.0143
7	15	15	531000	2535	DFT-s-OFDM 64 QAM	1@77	19.86	11.36	0.0137
7	15	15	531000	2535	DFT-s-OFDM 256 QAM	36@18	18.75	10.25	0.0106
7	15	15	531000	2535	DFT-s-OFDM 256 QAM	1@1	18.67	10.17	0.0104
7	15	15	531000	2535	DFT-s-OFDM 256 QAM	1@77	18.66	10.16	0.0104
7	15	15	531000	2535	CP-OFDM QPSK	39@19	21.44	12.94	0.0197
7	15	15	531000	2535	CP-OFDM QPSK	1@1	20.9	12.4	0.0174
7	15	15	531000	2535	CP-OFDM QPSK	1@77	20.82	12.32	0.0171
7	15	15	536500	2562.5	DFT-s-OFDM PI/2 BPSK	36@18	23.08	14.58	0.0287
7	15	15	536500	2562.5	DFT-s-OFDM PI/2 BPSK	1@1	22.58	14.08	0.0256
7	15	15	536500	2562.5	DFT-s-OFDM PI/2 BPSK	1@77	22.72	14.22	0.0264
7	15	15	536500	2562.5	DFT-s-OFDM QPSK	36@18	23.15	14.65	0.0292
7	15	15	536500	2562.5	DFT-s-OFDM QPSK	1@1	22.31	13.81	0.0240
7	15	15	536500	2562.5	DFT-s-OFDM QPSK	1@77	22.47	13.97	0.0249
7	15	15	536500	2562.5	DFT-s-OFDM 16 QAM	36@18	22.14	13.64	0.0231
7	15	15	536500	2562.5	DFT-s-OFDM 16 QAM	1@1	21.23	12.73	0.0187
7	15	15	536500	2562.5	DFT-s-OFDM 16 QAM	1@77	21.56	13.06	0.0202
7	15	15	536500	2562.5	DFT-s-OFDM 64 QAM	36@18	20.62	12.12	0.0163
7	15	15	536500	2562.5	DFT-s-OFDM 64 QAM	1@1	19.99	11.49	0.0141
7	15	15	536500	2562.5	DFT-s-OFDM 64 QAM	1@77	20.13	11.63	0.0146
7	15	15	536500	2562.5	DFT-s-OFDM 256 QAM	36@18	18.93	10.43	0.0110
7	15	15	536500	2562.5	DFT-s-OFDM 256 QAM	1@1	18.66	10.16	0.0104
7	15	15	536500	2562.5	DFT-s-OFDM 256 QAM	1@77	18.9	10.4	0.0110
7	15	15	536500	2562.5	CP-OFDM QPSK	39@19	21.65	13.15	0.0207
7	15	15	536500	2562.5	CP-OFDM QPSK	1@1	20.89	12.39	0.0173
7	15	15	536500	2562.5	CP-OFDM QPSK	1@77	20.84	12.34	0.0171
7	15	20	526000	2510	DFT-s-OFDM PI/2 BPSK	50@25	22.28	13.78	0.0239
7	15	20	526000	2510	DFT-s-OFDM PI/2 BPSK	1@1	22.5	14	0.0251
7	15	20	526000	2510	DFT-s-OFDM PI/2 BPSK	1@104	22.46	13.96	0.0249
7	15	20	526000	2510	DFT-s-OFDM QPSK	50@25	22.91	14.41	0.0276
7	15	20	526000	2510	DFT-s-OFDM QPSK	1@1	22.32	13.82	0.0241
7	15	20	526000	2510	DFT-s-OFDM QPSK	1@104	22.37	13.87	0.0244
7	15	20	526000	2510	DFT-s-OFDM 16 QAM	50@25	21.9	13.4	0.0219
7	15	20	526000	2510	DFT-s-OFDM 16 QAM	1@1	21.28	12.78	0.0190
7	15	20	526000	2510	DFT-s-OFDM 16 QAM	1@104	21.26	12.76	0.0189
7	15	20	526000	2510	DFT-s-OFDM 64 QAM	50@25	20.37	11.87	0.0154

7	15	20	526000	2510	DFT-s-OFDM 64 QAM	1@1	19.89	11.39	0.0138
7	15	20	526000	2510	DFT-s-OFDM 64 QAM	1@104	20.05	11.55	0.0143
7	15	20	526000	2510	DFT-s-OFDM 256 QAM	50@25	18.66	10.16	0.0104
7	15	20	526000	2510	DFT-s-OFDM 256 QAM	1@1	18.53	10.03	0.0101
7	15	20	526000	2510	DFT-s-OFDM 256 QAM	1@104	18.71	10.21	0.0105
7	15	20	526000	2510	CP-OFDM QPSK	53@26	21.4	12.9	0.0195
7	15	20	526000	2510	CP-OFDM QPSK	1@1	20.94	12.44	0.0175
7	15	20	526000	2510	CP-OFDM QPSK	1@104	20.87	12.37	0.0173
7	15	20	531000	2535	DFT-s-OFDM PI/2 BPSK	50@25	22.93	14.43	0.0277
7	15	20	531000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.57	14.07	0.0255
7	15	20	531000	2535	DFT-s-OFDM PI/2 BPSK	1@104	22.51	14.01	0.0252
7	15	20	531000	2535	DFT-s-OFDM QPSK	50@25	22.98	14.48	0.0281
7	15	20	531000	2535	DFT-s-OFDM QPSK	1@1	22.35	13.85	0.0243
7	15	20	531000	2535	DFT-s-OFDM QPSK	1@104	22.36	13.86	0.0243
7	15	20	531000	2535	DFT-s-OFDM 16 QAM	50@25	21.97	13.47	0.0222
7	15	20	531000	2535	DFT-s-OFDM 16 QAM	1@1	21.3	12.8	0.0191
7	15	20	531000	2535	DFT-s-OFDM 16 QAM	1@104	21.31	12.81	0.0191
7	15	20	531000	2535	DFT-s-OFDM 64 QAM	50@25	20.43	11.93	0.0156
7	15	20	531000	2535	DFT-s-OFDM 64 QAM	1@1	20.05	11.55	0.0143
7	15	20	531000	2535	DFT-s-OFDM 64 QAM	1@104	19.91	11.41	0.0138
7	15	20	531000	2535	DFT-s-OFDM 256 QAM	50@25	18.71	10.21	0.0105
7	15	20	531000	2535	DFT-s-OFDM 256 QAM	1@1	18.62	10.12	0.0103
7	15	20	531000	2535	DFT-s-OFDM 256 QAM	1@104	18.62	10.12	0.0103
7	15	20	531000	2535	CP-OFDM QPSK	53@26	21.47	12.97	0.0198
7	15	20	531000	2535	CP-OFDM QPSK	1@1	20.96	12.46	0.0176
7	15	20	531000	2535	CP-OFDM QPSK	1@104	20.93	12.43	0.0175
7	15	20	536000	2560	DFT-s-OFDM PI/2 BPSK	50@25	23.12	14.62	0.0290
7	15	20	536000	2560	DFT-s-OFDM PI/2 BPSK	1@1	22.59	14.09	0.0256
7	15	20	536000	2560	DFT-s-OFDM PI/2 BPSK	1@104	22.82	14.32	0.0270
7	15	20	536000	2560	DFT-s-OFDM QPSK	50@25	23.19	14.69	0.0294
7	15	20	536000	2560	DFT-s-OFDM QPSK	1@1	22.34	13.84	0.0242
7	15	20	536000	2560	DFT-s-OFDM QPSK	1@104	22.55	14.05	0.0254
7	15	20	536000	2560	DFT-s-OFDM 16 QAM	50@25	22.15	13.65	0.0232
7	15	20	536000	2560	DFT-s-OFDM 16 QAM	1@1	21.34	12.84	0.0192
7	15	20	536000	2560	DFT-s-OFDM 16 QAM	1@104	21.52	13.02	0.0200
7	15	20	536000	2560	DFT-s-OFDM 64 QAM	50@25	20.62	12.12	0.0163

7	15	20	536000	2560	DFT-s-OFDM 64 QAM	1@1	19.98	11.48	0.0141
7	15	20	536000	2560	DFT-s-OFDM 64 QAM	1@104	20.24	11.74	0.0149
7	15	20	536000	2560	DFT-s-OFDM 256 QAM	50@25	18.88	10.38	0.0109
7	15	20	536000	2560	DFT-s-OFDM 256 QAM	1@1	18.65	10.15	0.0104
7	15	20	536000	2560	DFT-s-OFDM 256 QAM	1@104	18.91	10.41	0.0110
7	15	20	536000	2560	CP-OFDM QPSK	53@26	21.63	13.13	0.0206
7	15	20	536000	2560	CP-OFDM QPSK	1@1	20.95	12.45	0.0176
7	15	20	536000	2560	CP-OFDM QPSK	1@104	21.03	12.53	0.0179
7	15	25	526500	2512.5	DFT-s-OFDM PI/2 BPSK	64@32	22.22	13.72	0.0236
7	15	25	526500	2512.5	DFT-s-OFDM PI/2 BPSK	1@1	22.57	14.07	0.0255
7	15	25	526500	2512.5	DFT-s-OFDM PI/2 BPSK	1@131	22.59	14.09	0.0256
7	15	25	526500	2512.5	DFT-s-OFDM QPSK	64@32	22.86	14.36	0.0273
7	15	25	526500	2512.5	DFT-s-OFDM QPSK	1@1	22.44	13.94	0.0248
7	15	25	526500	2512.5	DFT-s-OFDM QPSK	1@131	22.39	13.89	0.0245
7	15	25	526500	2512.5	DFT-s-OFDM 16 QAM	64@32	21.76	13.26	0.0212
7	15	25	526500	2512.5	DFT-s-OFDM 16 QAM	1@1	21.42	12.92	0.0196
7	15	25	526500	2512.5	DFT-s-OFDM 16 QAM	1@131	21.49	12.99	0.0199
7	15	25	526500	2512.5	DFT-s-OFDM 64 QAM	64@32	20.25	11.75	0.0150
7	15	25	526500	2512.5	DFT-s-OFDM 64 QAM	1@1	20.13	11.63	0.0146
7	15	25	526500	2512.5	DFT-s-OFDM 64 QAM	1@131	20.25	11.75	0.0150
7	15	25	526500	2512.5	DFT-s-OFDM 256 QAM	64@32	18.56	10.06	0.0101
7	15	25	526500	2512.5	DFT-s-OFDM 256 QAM	1@1	18.56	10.06	0.0101
7	15	25	526500	2512.5	DFT-s-OFDM 256 QAM	1@131	18.58	10.08	0.0102
7	15	25	526500	2512.5	CP-OFDM QPSK	67@33	21.36	12.86	0.0193
7	15	25	526500	2512.5	CP-OFDM QPSK	1@1	21.11	12.61	0.0182
7	15	25	526500	2512.5	CP-OFDM QPSK	1@131	21.1	12.6	0.0182
7	15	25	531000	2535	DFT-s-OFDM PI/2 BPSK	64@32	22.85	14.35	0.0272
7	15	25	531000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.99	14.49	0.0281
7	15	25	531000	2535	DFT-s-OFDM PI/2 BPSK	1@131	22.58	14.08	0.0256
7	15	25	531000	2535	DFT-s-OFDM QPSK	64@32	22.89	14.39	0.0275
7	15	25	531000	2535	DFT-s-OFDM QPSK	1@1	22.39	13.89	0.0245
7	15	25	531000	2535	DFT-s-OFDM QPSK	1@131	22.47	13.97	0.0249
7	15	25	531000	2535	DFT-s-OFDM 16 QAM	64@32	21.82	13.32	0.0215
7	15	25	531000	2535	DFT-s-OFDM 16 QAM	1@1	21.44	12.94	0.0197
7	15	25	531000	2535	DFT-s-OFDM 16 QAM	1@131	21.47	12.97	0.0198
7	15	25	531000	2535	DFT-s-OFDM 64 QAM	64@32	20.29	11.79	0.0151

7	15	25	531000	2535	DFT-s-OFDM 64 QAM	1@1	20.27	11.77	0.0150
7	15	25	531000	2535	DFT-s-OFDM 64 QAM	1@131	20.15	11.65	0.0146
7	15	25	531000	2535	DFT-s-OFDM 256 QAM	64@32	18.6	10.1	0.0102
7	15	25	531000	2535	DFT-s-OFDM 256 QAM	1@1	18.54	10.04	0.0101
7	15	25	531000	2535	DFT-s-OFDM 256 QAM	1@131	18.51	10.01	0.0100
7	15	25	531000	2535	CP-OFDM QPSK	67@33	21.36	12.86	0.0193
7	15	25	531000	2535	CP-OFDM QPSK	1@1	21.11	12.61	0.0182
7	15	25	531000	2535	CP-OFDM QPSK	1@131	21.11	12.61	0.0182
7	15	25	535500	2557.5	DFT-s-OFDM PI/2 BPSK	64@32	22.98	14.48	0.0281
7	15	25	535500	2557.5	DFT-s-OFDM PI/2 BPSK	1@1	22.59	14.09	0.0256
7	15	25	535500	2557.5	DFT-s-OFDM PI/2 BPSK	1@131	22.91	14.41	0.0276
7	15	25	535500	2557.5	DFT-s-OFDM QPSK	64@32	23.02	14.52	0.0283
7	15	25	535500	2557.5	DFT-s-OFDM QPSK	1@1	22.44	13.94	0.0248
7	15	25	535500	2557.5	DFT-s-OFDM QPSK	1@131	22.67	14.17	0.0261
7	15	25	535500	2557.5	DFT-s-OFDM 16 QAM	64@32	21.93	13.43	0.0220
7	15	25	535500	2557.5	DFT-s-OFDM 16 QAM	1@1	21.39	12.89	0.0195
7	15	25	535500	2557.5	DFT-s-OFDM 16 QAM	1@131	21.7	13.2	0.0209
7	15	25	535500	2557.5	DFT-s-OFDM 64 QAM	64@32	20.38	11.88	0.0154
7	15	25	535500	2557.5	DFT-s-OFDM 64 QAM	1@1	20.17	11.67	0.0147
7	15	25	535500	2557.5	DFT-s-OFDM 64 QAM	1@131	20.52	12.02	0.0159
7	15	25	535500	2557.5	DFT-s-OFDM 256 QAM	64@32	18.68	10.18	0.0104
7	15	25	535500	2557.5	DFT-s-OFDM 256 QAM	1@1	18.58	10.08	0.0102
7	15	25	535500	2557.5	DFT-s-OFDM 256 QAM	1@131	18.91	10.41	0.0110
7	15	25	535500	2557.5	CP-OFDM QPSK	67@33	21.51	13.01	0.0200
7	15	25	535500	2557.5	CP-OFDM QPSK	1@1	21.11	12.61	0.0182
7	15	25	535500	2557.5	CP-OFDM QPSK	1@131	21.13	12.63	0.0183
7	15	30	527000	2515	DFT-s-OFDM PI/2 BPSK	80@40	22.36	13.86	0.0243
7	15	30	527000	2515	DFT-s-OFDM PI/2 BPSK	1@1	22.44	13.94	0.0248
7	15	30	527000	2515	DFT-s-OFDM PI/2 BPSK	1@158	22.58	14.08	0.0256
7	15	30	527000	2515	DFT-s-OFDM QPSK	80@40	22.99	14.49	0.0281
7	15	30	527000	2515	DFT-s-OFDM QPSK	1@1	22.31	13.81	0.0240
7	15	30	527000	2515	DFT-s-OFDM QPSK	1@158	22.41	13.91	0.0246
7	15	30	527000	2515	DFT-s-OFDM 16 QAM	80@40	21.93	13.43	0.0220
7	15	30	527000	2515	DFT-s-OFDM 16 QAM	1@1	21.2	12.7	0.0186
7	15	30	527000	2515	DFT-s-OFDM 16 QAM	1@158	21.31	12.81	0.0191
7	15	30	527000	2515	DFT-s-OFDM 64 QAM	80@40	20.47	11.97	0.0157

7	15	30	527000	2515	DFT-s-OFDM 64 QAM	1@1	20.12	11.62	0.0145
7	15	30	527000	2515	DFT-s-OFDM 64 QAM	1@158	20.3	11.8	0.0151
7	15	30	527000	2515	DFT-s-OFDM 256 QAM	80@40	18.73	10.23	0.0105
7	15	30	527000	2515	DFT-s-OFDM 256 QAM	1@1	18.48	9.98	0.0100
7	15	30	527000	2515	DFT-s-OFDM 256 QAM	1@158	18.66	10.16	0.0104
7	15	30	527000	2515	CP-OFDM QPSK	80@40	21.41	12.91	0.0195
7	15	30	527000	2515	CP-OFDM QPSK	1@1	20.92	12.42	0.0175
7	15	30	527000	2515	CP-OFDM QPSK	1@158	20.98	12.48	0.0177
7	15	30	531000	2535	DFT-s-OFDM PI/2 BPSK	80@40	22.97	14.47	0.0280
7	15	30	531000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.49	13.99	0.0251
7	15	30	531000	2535	DFT-s-OFDM PI/2 BPSK	1@158	22.56	14.06	0.0255
7	15	30	531000	2535	DFT-s-OFDM QPSK	80@40	23.01	14.51	0.0282
7	15	30	531000	2535	DFT-s-OFDM QPSK	1@1	22.31	13.81	0.0240
7	15	30	531000	2535	DFT-s-OFDM QPSK	1@158	22.36	13.86	0.0243
7	15	30	531000	2535	DFT-s-OFDM 16 QAM	80@40	21.97	13.47	0.0222
7	15	30	531000	2535	DFT-s-OFDM 16 QAM	1@1	21.24	12.74	0.0188
7	15	30	531000	2535	DFT-s-OFDM 16 QAM	1@158	21.35	12.85	0.0193
7	15	30	531000	2535	DFT-s-OFDM 64 QAM	80@40	20.5	12	0.0158
7	15	30	531000	2535	DFT-s-OFDM 64 QAM	1@1	20.27	11.77	0.0150
7	15	30	531000	2535	DFT-s-OFDM 64 QAM	1@158	20.3	11.8	0.0151
7	15	30	531000	2535	DFT-s-OFDM 256 QAM	80@40	18.79	10.29	0.0107
7	15	30	531000	2535	DFT-s-OFDM 256 QAM	1@1	18.55	10.05	0.0101
7	15	30	531000	2535	DFT-s-OFDM 256 QAM	1@158	18.65	10.15	0.0104
7	15	30	531000	2535	CP-OFDM QPSK	80@40	21.46	12.96	0.0198
7	15	30	531000	2535	CP-OFDM QPSK	1@1	20.89	12.39	0.0173
7	15	30	531000	2535	CP-OFDM QPSK	1@158	20.98	12.48	0.0177
7	15	30	535000	2555	DFT-s-OFDM PI/2 BPSK	80@40	23.06	14.56	0.0286
7	15	30	535000	2555	DFT-s-OFDM PI/2 BPSK	1@1	22.49	13.99	0.0251
7	15	30	535000	2555	DFT-s-OFDM PI/2 BPSK	1@158	22.82	14.32	0.0270
7	15	30	535000	2555	DFT-s-OFDM QPSK	80@40	23.11	14.61	0.0289
7	15	30	535000	2555	DFT-s-OFDM QPSK	1@1	22.35	13.85	0.0243
7	15	30	535000	2555	DFT-s-OFDM QPSK	1@158	22.54	14.04	0.0254
7	15	30	535000	2555	DFT-s-OFDM 16 QAM	80@40	22.04	13.54	0.0226
7	15	30	535000	2555	DFT-s-OFDM 16 QAM	1@1	21.32	12.82	0.0191
7	15	30	535000	2555	DFT-s-OFDM 16 QAM	1@158	21.58	13.08	0.0203
7	15	30	535000	2555	DFT-s-OFDM 64 QAM	80@40	20.59	12.09	0.0162

7	15	30	535000	2555	DFT-s-OFDM 64 QAM	1@1	20.23	11.73	0.0149
7	15	30	535000	2555	DFT-s-OFDM 64 QAM	1@158	20.57	12.07	0.0161
7	15	30	535000	2555	DFT-s-OFDM 256 QAM	80@40	18.86	10.36	0.0109
7	15	30	535000	2555	DFT-s-OFDM 256 QAM	1@1	18.59	10.09	0.0102
7	15	30	535000	2555	DFT-s-OFDM 256 QAM	1@158	18.97	10.47	0.0111
7	15	30	535000	2555	CP-OFDM QPSK	80@40	21.53	13.03	0.0201
7	15	30	535000	2555	CP-OFDM QPSK	1@1	20.96	12.46	0.0176
7	15	30	535000	2555	CP-OFDM QPSK	1@158	21.09	12.59	0.0182
7	15	40	528000	2520	DFT-s-OFDM PI/2 BPSK	108@54	22.44	13.94	0.0248
7	15	40	528000	2520	DFT-s-OFDM PI/2 BPSK	1@1	22.46	13.96	0.0249
7	15	40	528000	2520	DFT-s-OFDM PI/2 BPSK	1@214	22.59	14.09	0.0256
7	15	40	528000	2520	DFT-s-OFDM QPSK	108@54	23.04	14.54	0.0284
7	15	40	528000	2520	DFT-s-OFDM QPSK	1@1	22.31	13.81	0.0240
7	15	40	528000	2520	DFT-s-OFDM QPSK	1@214	22.43	13.93	0.0247
7	15	40	528000	2520	DFT-s-OFDM 16 QAM	108@54	22.01	13.51	0.0224
7	15	40	528000	2520	DFT-s-OFDM 16 QAM	1@1	21.31	12.81	0.0191
7	15	40	528000	2520	DFT-s-OFDM 16 QAM	1@214	21.43	12.93	0.0196
7	15	40	528000	2520	DFT-s-OFDM 64 QAM	108@54	20.52	12.02	0.0159
7	15	40	528000	2520	DFT-s-OFDM 64 QAM	1@1	20.18	11.68	0.0147
7	15	40	528000	2520	DFT-s-OFDM 64 QAM	1@214	20.28	11.78	0.0151
7	15	40	528000	2520	DFT-s-OFDM 256 QAM	108@54	18.7	10.2	0.0105
7	15	40	528000	2520	DFT-s-OFDM 256 QAM	1@1	18.54	10.04	0.0101
7	15	40	528000	2520	DFT-s-OFDM 256 QAM	1@214	18.67	10.17	0.0104
7	15	40	528000	2520	CP-OFDM QPSK	108@54	21.46	12.96	0.0198
7	15	40	528000	2520	CP-OFDM QPSK	1@1	20.98	12.48	0.0177
7	15	40	528000	2520	CP-OFDM QPSK	1@214	21.04	12.54	0.0179
7	15	40	531000	2535	DFT-s-OFDM PI/2 BPSK	108@54	22.96	14.46	0.0279
7	15	40	531000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.42	13.92	0.0247
7	15	40	531000	2535	DFT-s-OFDM PI/2 BPSK	1@214	22.53	14.03	0.0253
7	15	40	531000	2535	DFT-s-OFDM QPSK	108@54	23.02	14.52	0.0283
7	15	40	531000	2535	DFT-s-OFDM QPSK	1@1	22.21	13.71	0.0235
7	15	40	531000	2535	DFT-s-OFDM QPSK	1@214	22.4	13.9	0.0245
7	15	40	531000	2535	DFT-s-OFDM 16 QAM	108@54	21.98	13.48	0.0223
7	15	40	531000	2535	DFT-s-OFDM 16 QAM	1@1	21.23	12.73	0.0187
7	15	40	531000	2535	DFT-s-OFDM 16 QAM	1@214	21.41	12.91	0.0195
7	15	40	531000	2535	DFT-s-OFDM 64 QAM	108@54	20.46	11.96	0.0157

7	15	40	531000	2535	DFT-s-OFDM 64 QAM	1@1	20.21	11.71	0.0148
7	15	40	531000	2535	DFT-s-OFDM 64 QAM	1@214	20.33	11.83	0.0152
7	15	40	531000	2535	DFT-s-OFDM 256 QAM	108@54	18.71	10.21	0.0105
7	15	40	531000	2535	DFT-s-OFDM 256 QAM	1@1	18.51	10.01	0.0100
7	15	40	531000	2535	DFT-s-OFDM 256 QAM	1@214	18.67	10.17	0.0104
7	15	40	531000	2535	CP-OFDM QPSK	108@54	21.46	12.96	0.0198
7	15	40	531000	2535	CP-OFDM QPSK	1@1	20.86	12.36	0.0172
7	15	40	531000	2535	CP-OFDM QPSK	1@214	20.98	12.48	0.0177
7	15	40	534000	2550	DFT-s-OFDM PI/2 BPSK	108@54	23.02	14.52	0.0283
7	15	40	534000	2550	DFT-s-OFDM PI/2 BPSK	1@1	22.5	14	0.0251
7	15	40	534000	2550	DFT-s-OFDM PI/2 BPSK	1@214	22.88	14.38	0.0274
7	15	40	534000	2550	DFT-s-OFDM QPSK	108@54	23.06	14.56	0.0286
7	15	40	534000	2550	DFT-s-OFDM QPSK	1@1	22.39	13.89	0.0245
7	15	40	534000	2550	DFT-s-OFDM QPSK	1@214	22.58	14.08	0.0256
7	15	40	534000	2550	DFT-s-OFDM 16 QAM	108@54	22.03	13.53	0.0225
7	15	40	534000	2550	DFT-s-OFDM 16 QAM	1@1	21.4	12.9	0.0195
7	15	40	534000	2550	DFT-s-OFDM 16 QAM	1@214	21.62	13.12	0.0205
7	15	40	534000	2550	DFT-s-OFDM 64 QAM	108@54	20.5	12	0.0158
7	15	40	534000	2550	DFT-s-OFDM 64 QAM	1@1	20.31	11.81	0.0152
7	15	40	534000	2550	DFT-s-OFDM 64 QAM	1@214	20.59	12.09	0.0162
7	15	40	534000	2550	DFT-s-OFDM 256 QAM	108@54	18.71	10.21	0.0105
7	15	40	534000	2550	DFT-s-OFDM 256 QAM	1@1	18.66	10.16	0.0104
7	15	40	534000	2550	DFT-s-OFDM 256 QAM	1@214	18.9	10.4	0.0110
7	15	40	534000	2550	CP-OFDM QPSK	108@54	21.5	13	0.0200
7	15	40	534000	2550	CP-OFDM QPSK	1@1	21.03	12.53	0.0179
7	15	40	534000	2550	CP-OFDM QPSK	1@214	21.15	12.65	0.0184
7	15	50	529000	2525	DFT-s-OFDM PI/2 BPSK	135@67	22.51	14.01	0.0252
7	15	50	529000	2525	DFT-s-OFDM PI/2 BPSK	1@1	22.61	14.11	0.0258
7	15	50	529000	2525	DFT-s-OFDM PI/2 BPSK	1@268	22.69	14.19	0.0262
7	15	50	529000	2525	DFT-s-OFDM QPSK	135@67	23.06	14.56	0.0286
7	15	50	529000	2525	DFT-s-OFDM QPSK	1@1	22.33	13.83	0.0242
7	15	50	529000	2525	DFT-s-OFDM QPSK	1@268	22.46	13.96	0.0249
7	15	50	529000	2525	DFT-s-OFDM 16 QAM	135@67	22.08	13.58	0.0228
7	15	50	529000	2525	DFT-s-OFDM 16 QAM	1@1	21.36	12.86	0.0193
7	15	50	529000	2525	DFT-s-OFDM 16 QAM	1@268	21.45	12.95	0.0197
7	15	50	529000	2525	DFT-s-OFDM 64 QAM	135@67	20.53	12.03	0.0160

7	15	50	529000	2525	DFT-s-OFDM 64 QAM	1@1	20.24	11.74	0.0149
7	15	50	529000	2525	DFT-s-OFDM 64 QAM	1@268	20.23	11.73	0.0149
7	15	50	529000	2525	DFT-s-OFDM 256 QAM	135@67	18.78	10.28	0.0107
7	15	50	529000	2525	DFT-s-OFDM 256 QAM	1@1	18.53	10.03	0.0101
7	15	50	529000	2525	DFT-s-OFDM 256 QAM	1@268	18.66	10.16	0.0104
7	15	50	529000	2525	CP-OFDM QPSK	135@67	21.55	13.05	0.0202
7	15	50	529000	2525	CP-OFDM QPSK	1@1	21.01	12.51	0.0178
7	15	50	529000	2525	CP-OFDM QPSK	1@268	21.05	12.55	0.0180
7	15	50	531000	2535	DFT-s-OFDM PI/2 BPSK	135@67	23.03	14.53	0.0284
7	15	50	531000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.55	14.05	0.0254
7	15	50	531000	2535	DFT-s-OFDM PI/2 BPSK	1@268	22.78	14.28	0.0268
7	15	50	531000	2535	DFT-s-OFDM QPSK	135@67	23.09	14.59	0.0288
7	15	50	531000	2535	DFT-s-OFDM QPSK	1@1	22.37	13.87	0.0244
7	15	50	531000	2535	DFT-s-OFDM QPSK	1@268	22.57	14.07	0.0255
7	15	50	531000	2535	DFT-s-OFDM 16 QAM	135@67	22.08	13.58	0.0228
7	15	50	531000	2535	DFT-s-OFDM 16 QAM	1@1	21.34	12.84	0.0192
7	15	50	531000	2535	DFT-s-OFDM 16 QAM	1@268	21.57	13.07	0.0203
7	15	50	531000	2535	DFT-s-OFDM 64 QAM	135@67	20.52	12.02	0.0159
7	15	50	531000	2535	DFT-s-OFDM 64 QAM	1@1	20.17	11.67	0.0147
7	15	50	531000	2535	DFT-s-OFDM 64 QAM	1@268	20.38	11.88	0.0154
7	15	50	531000	2535	DFT-s-OFDM 256 QAM	135@67	18.72	10.22	0.0105
7	15	50	531000	2535	DFT-s-OFDM 256 QAM	1@1	18.55	10.05	0.0101
7	15	50	531000	2535	DFT-s-OFDM 256 QAM	1@268	18.73	10.23	0.0105
7	15	50	531000	2535	CP-OFDM QPSK	135@67	21.54	13.04	0.0201
7	15	50	531000	2535	CP-OFDM QPSK	1@1	20.97	12.47	0.0177
7	15	50	531000	2535	CP-OFDM QPSK	1@268	21.07	12.57	0.0181
7	15	50	533000	2545	DFT-s-OFDM PI/2 BPSK	135@67	23.1	14.6	0.0288
7	15	50	533000	2545	DFT-s-OFDM PI/2 BPSK	1@1	22.57	14.07	0.0255
7	15	50	533000	2545	DFT-s-OFDM PI/2 BPSK	1@268	22.96	14.46	0.0279
7	15	50	533000	2545	DFT-s-OFDM QPSK	135@67	23.09	14.59	0.0288
7	15	50	533000	2545	DFT-s-OFDM QPSK	1@1	22.43	13.93	0.0247
7	15	50	533000	2545	DFT-s-OFDM QPSK	1@268	22.65	14.15	0.0260
7	15	50	533000	2545	DFT-s-OFDM 16 QAM	135@67	22.11	13.61	0.0230
7	15	50	533000	2545	DFT-s-OFDM 16 QAM	1@1	21.35	12.85	0.0193
7	15	50	533000	2545	DFT-s-OFDM 16 QAM	1@268	21.66	13.16	0.0207
7	15	50	533000	2545	DFT-s-OFDM 64 QAM	135@67	20.55	12.05	0.0160

7	15	50	533000	2545	DFT-s-OFDM 64 QAM	1@1	20.31	11.81	0.0152
7	15	50	533000	2545	DFT-s-OFDM 64 QAM	1@268	20.62	12.12	0.0163
7	15	50	533000	2545	DFT-s-OFDM 256 QAM	135@67	18.82	10.32	0.0108
7	15	50	533000	2545	DFT-s-OFDM 256 QAM	1@1	18.62	10.12	0.0103
7	15	50	533000	2545	DFT-s-OFDM 256 QAM	1@268	19	10.5	0.0112
7	15	50	533000	2545	CP-OFDM QPSK	135@67	21.57	13.07	0.0203
7	15	50	533000	2545	CP-OFDM QPSK	1@1	20.96	12.46	0.0176
7	15	50	533000	2545	CP-OFDM QPSK	1@268	21.13	12.63	0.0183

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	0.00415	PASS	NV
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	0.00549	PASS	LV
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	0.00631	PASS	HV
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	0.00317	PASS	-30℃
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	0.00406	PASS	-20℃
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	0.00546	PASS	-10℃
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	0.0047	PASS	0℃
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	0.00381	PASS	10℃
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	0.00382	PASS	20℃
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	0.00644	PASS	30℃
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	0.00574	PASS	40℃
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	0.00629	PASS	50℃

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
7	15	20	526000	2510.0	DFT-s-OFDM PI/2 BPSK	100@0	4.58	13	PASS
7	15	20	526000	2510.0	DFT-s-OFDM PI/2 BPSK	1@0	4.33	13	PASS
7	15	20	526000	2510.0	DFT-s-OFDM QPSK	100@0	5.65	13	PASS
7	15	20	526000	2510.0	DFT-s-OFDM QPSK	1@0	5.47	13	PASS
7	15	20	531000	2535.0	DFT-s-OFDM PI/2 BPSK	100@0	4.62	13	PASS
7	15	20	531000	2535.0	DFT-s-OFDM PI/2 BPSK	1@0	4.26	13	PASS
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	5.67	13	PASS
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	1@0	5.12	13	PASS
7	15	20	536000	2560.0	DFT-s-OFDM PI/2 BPSK	100@0	4.74	13	PASS
7	15	20	536000	2560.0	DFT-s-OFDM PI/2 BPSK	1@0	4.43	13	PASS
7	15	20	536000	2560.0	DFT-s-OFDM QPSK	100@0	5.75	13	PASS
7	15	20	536000	2560.0	DFT-s-OFDM QPSK	1@0	5.35	13	PASS

N7(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Low_CH



N7(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Low_CH



N7(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N7(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



N7(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Mid_CH



N7(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N7(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_High_CH



N7(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_High_CH



N7(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

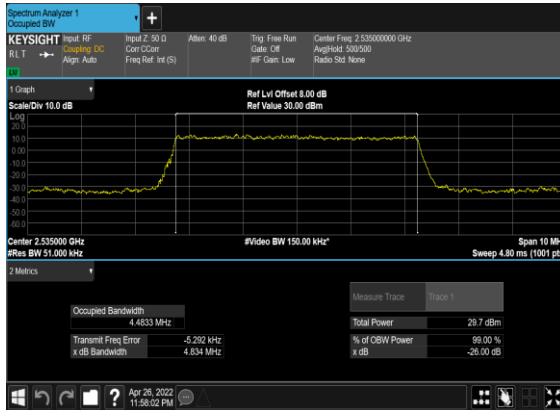


Occupied Bandwidth

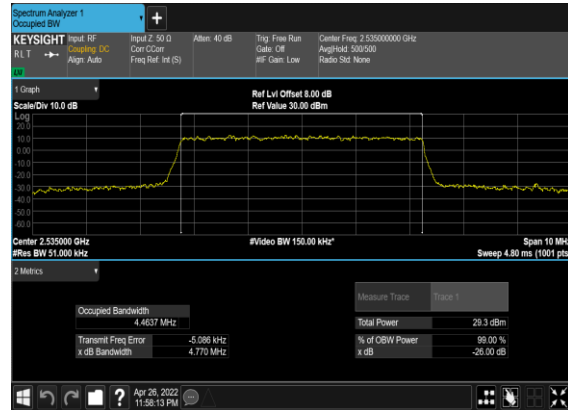
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
7	15	5	531000	2535.0	DFT-s-OFDM PI/2 BPSK	25@0	4.4833	4.834
7	15	5	531000	2535.0	DFT-s-OFDM QPSK	25@0	4.4637	4.77
7	15	5	531000	2535.0	CP-OFDM QPSK	25@0	4.4695	4.804
7	15	5	531000	2535.0	CP-OFDM 16 QAM	25@0	4.469	4.821
7	15	5	531000	2535.0	CP-OFDM 64 QAM	25@0	4.4692	4.769
7	15	5	531000	2535.0	CP-OFDM 256 QAM	25@0	4.4646	4.808
7	15	10	531000	2535.0	DFT-s-OFDM PI/2 BPSK	50@0	8.8952	9.349
7	15	10	531000	2535.0	DFT-s-OFDM QPSK	50@0	8.9073	9.382
7	15	10	531000	2535.0	CP-OFDM QPSK	52@0	9.2731	9.721
7	15	10	531000	2535.0	CP-OFDM 16 QAM	52@0	9.2995	9.738
7	15	10	531000	2535.0	CP-OFDM 64 QAM	52@0	9.269	9.727
7	15	10	531000	2535.0	CP-OFDM 256 QAM	52@0	9.2783	9.732
7	15	15	531000	2535.0	DFT-s-OFDM PI/2 BPSK	75@0	13.385	14.0
7	15	15	531000	2535.0	DFT-s-OFDM QPSK	75@0	13.381	13.97
7	15	15	531000	2535.0	CP-OFDM QPSK	79@0	14.088	16.69
7	15	15	531000	2535.0	CP-OFDM 16 QAM	79@0	14.106	14.7
7	15	15	531000	2535.0	CP-OFDM 64 QAM	79@0	14.131	14.73
7	15	15	531000	2535.0	CP-OFDM 256 QAM	79@0	14.048	14.7
7	15	20	531000	2535.0	DFT-s-OFDM PI/2 BPSK	100@0	17.84	18.55
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	17.833	18.6
7	15	20	531000	2535.0	CP-OFDM QPSK	106@0	18.896	19.67
7	15	20	531000	2535.0	CP-OFDM 16 QAM	106@0	18.907	19.73
7	15	20	531000	2535.0	CP-OFDM 64 QAM	106@0	18.86	19.66
7	15	20	531000	2535.0	CP-OFDM 256 QAM	106@0	18.896	19.74
7	15	25	531000	2535.0	DFT-s-OFDM PI/2 BPSK	128@0	22.857	23.68

7	15	25	531000	2535.0	DFT-s-OFDM QPSK	128@0	22.86	23.69
7	15	25	531000	2535.0	CP-OFDM QPSK	133@0	23.656	24.71
7	15	25	531000	2535.0	CP-OFDM 16 QAM	133@0	23.751	24.62
7	15	25	531000	2535.0	CP-OFDM 64 QAM	133@0	23.681	24.65
7	15	25	531000	2535.0	CP-OFDM 256 QAM	133@0	23.684	24.59
7	15	30	531000	2535.0	DFT-s-OFDM PI/2 BPSK	160@0	28.55	29.65
7	15	30	531000	2535.0	DFT-s-OFDM QPSK	160@0	28.564	29.64
7	15	30	531000	2535.0	CP-OFDM QPSK	160@0	28.587	29.73
7	15	30	531000	2535.0	CP-OFDM 16 QAM	160@0	28.602	29.64
7	15	30	531000	2535.0	CP-OFDM 64 QAM	160@0	28.532	29.71
7	15	30	531000	2535.0	CP-OFDM 256 QAM	160@0	28.57	29.7
7	15	40	531000	2535.0	DFT-s-OFDM PI/2 BPSK	216@0	38.589	40.04
7	15	40	531000	2535.0	DFT-s-OFDM QPSK	216@0	38.559	39.93
7	15	40	531000	2535.0	CP-OFDM QPSK	216@0	38.556	40.03
7	15	40	531000	2535.0	CP-OFDM 16 QAM	216@0	38.58	39.93
7	15	40	531000	2535.0	CP-OFDM 64 QAM	216@0	38.57	39.99
7	15	40	531000	2535.0	CP-OFDM 256 QAM	216@0	38.546	40.0
7	15	50	531000	2535.0	DFT-s-OFDM PI/2 BPSK	270@0	48.167	49.89
7	15	50	531000	2535.0	DFT-s-OFDM QPSK	270@0	48.195	49.78
7	15	50	531000	2535.0	CP-OFDM QPSK	270@0	48.105	49.77
7	15	50	531000	2535.0	CP-OFDM 16 QAM	270@0	48.147	49.86
7	15	50	531000	2535.0	CP-OFDM 64 QAM	270@0	48.122	49.74
7	15	50	531000	2535.0	CP-OFDM 256 QAM	270@0	48.082	49.84

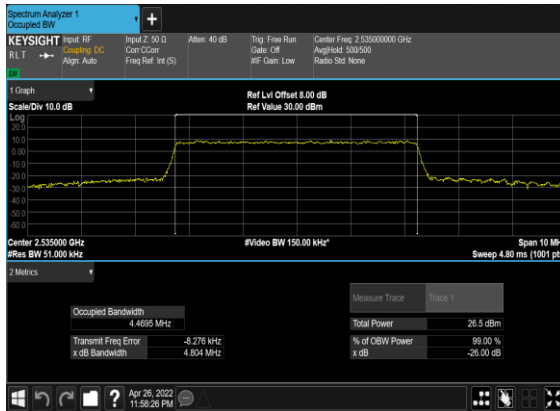
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BPSK_Outer_Full_Mid_CH



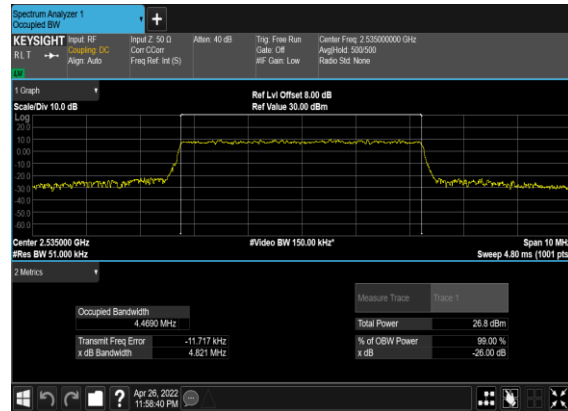
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OFDM_QPSK_Outer_Full_Mid_CH



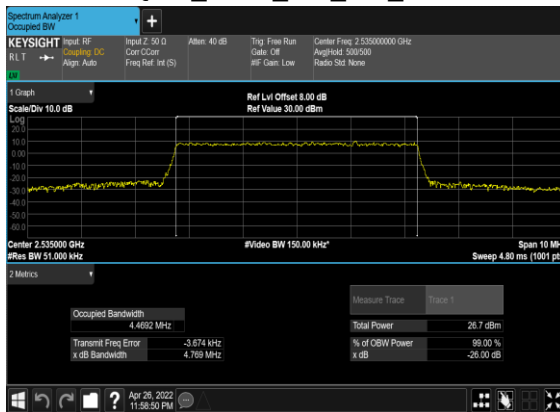
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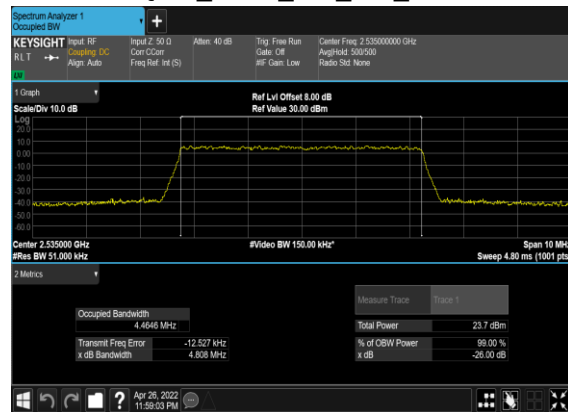
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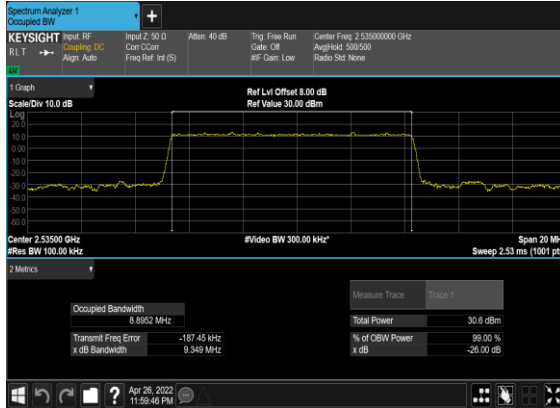
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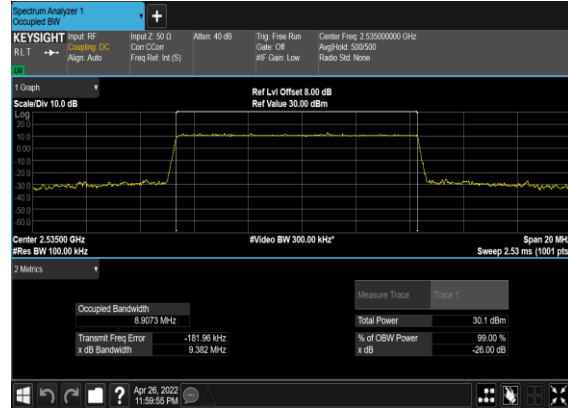
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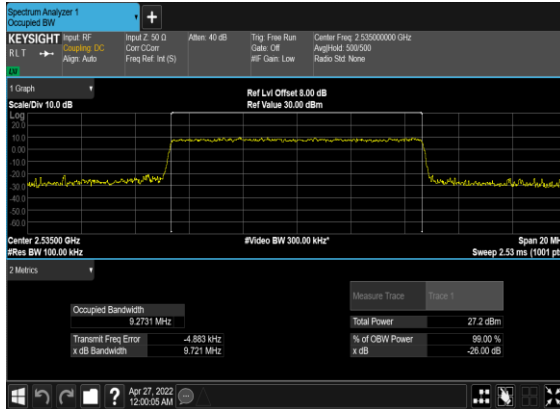
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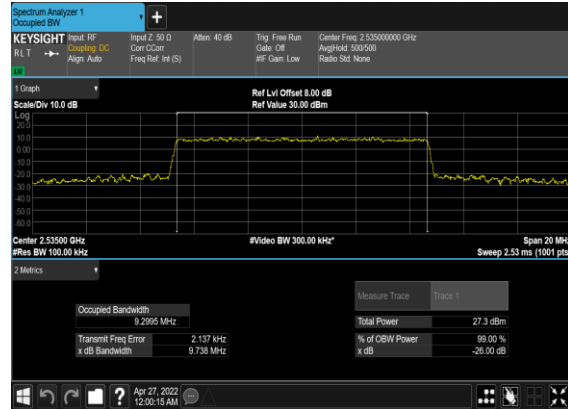
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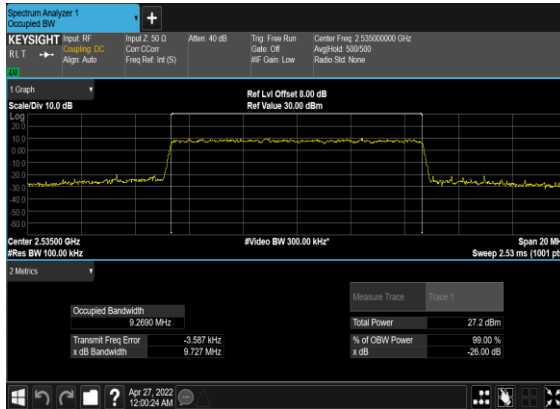
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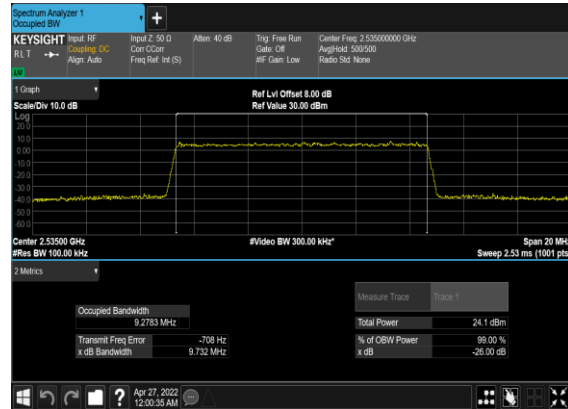
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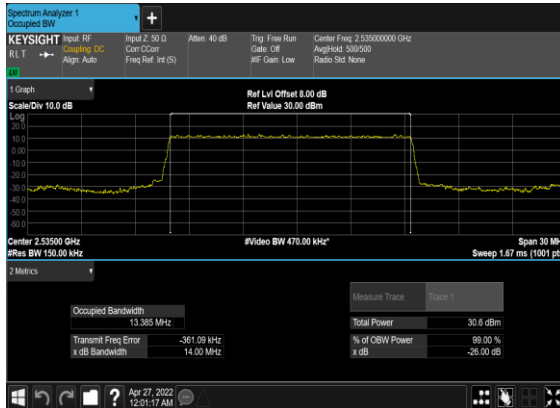
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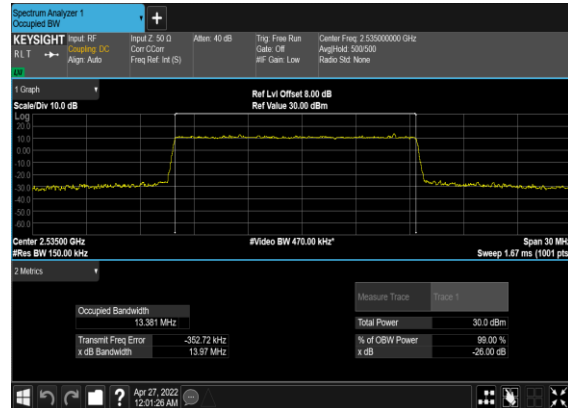
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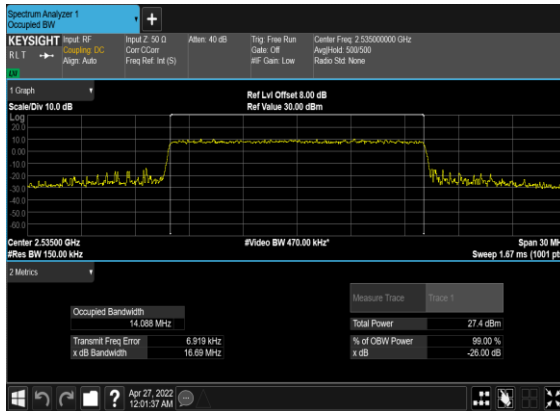
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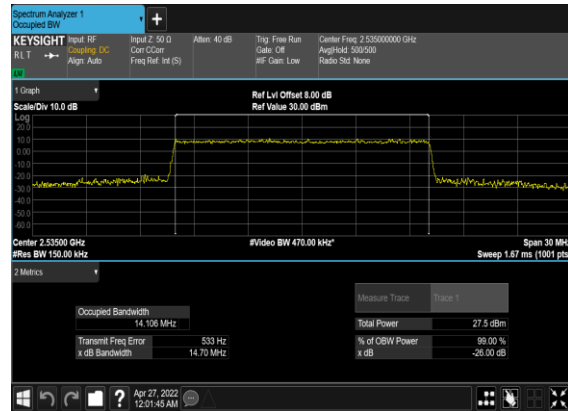
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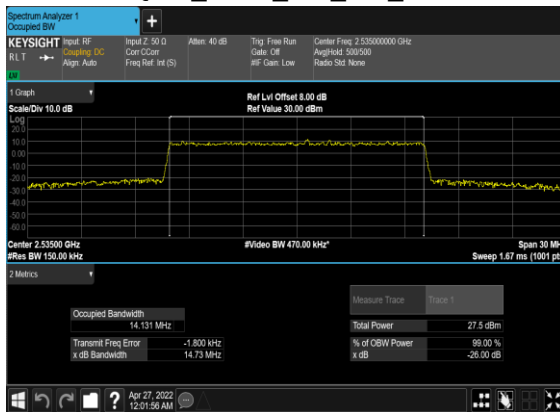
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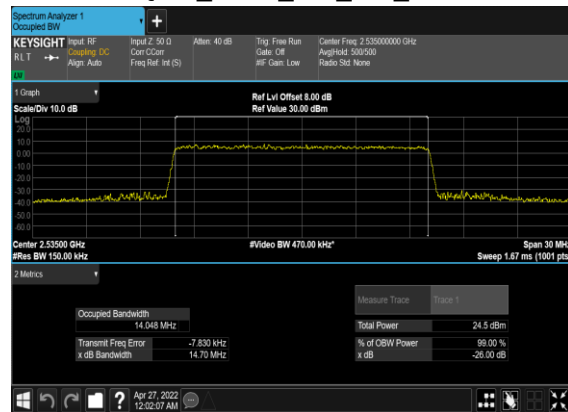
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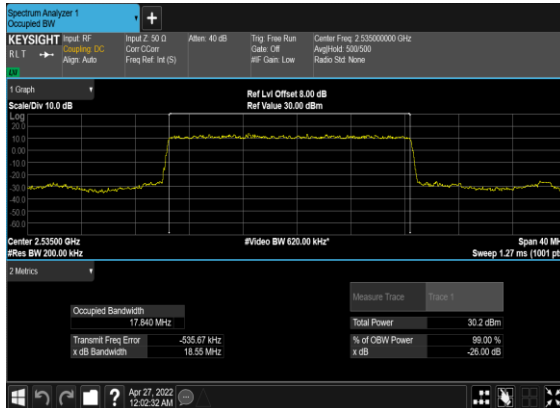
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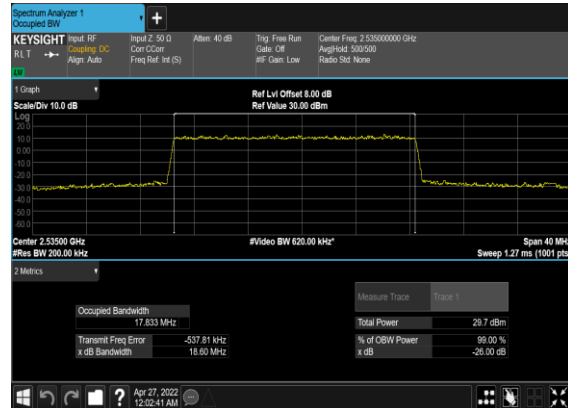
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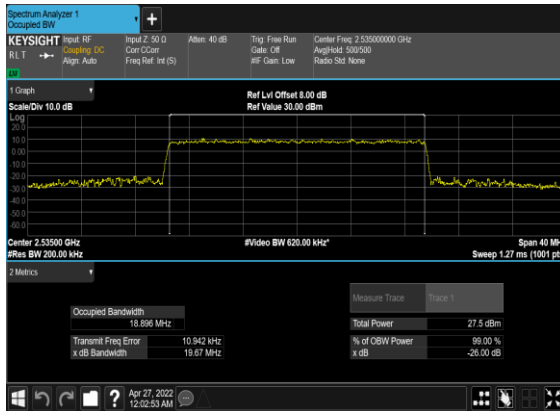
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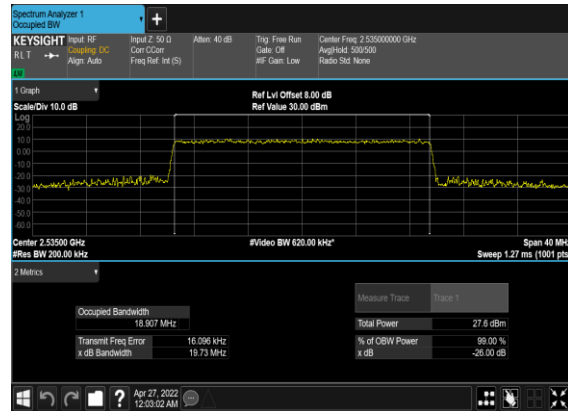
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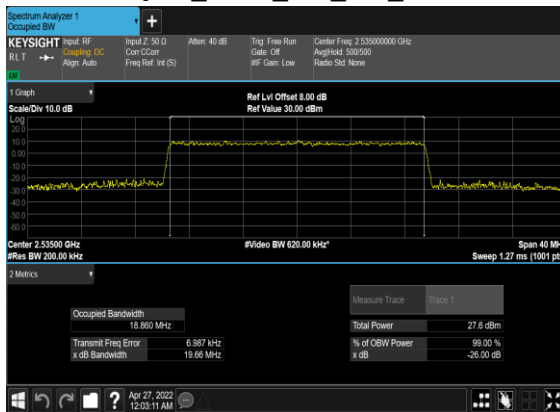
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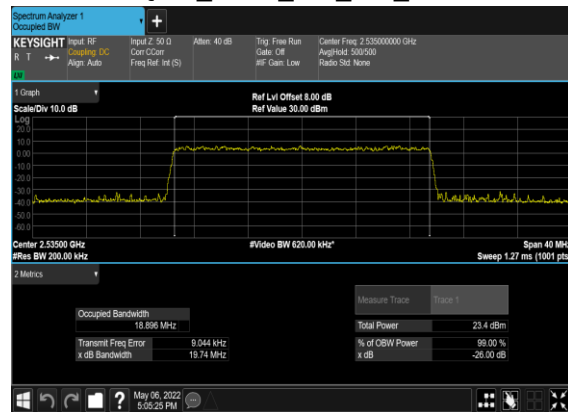
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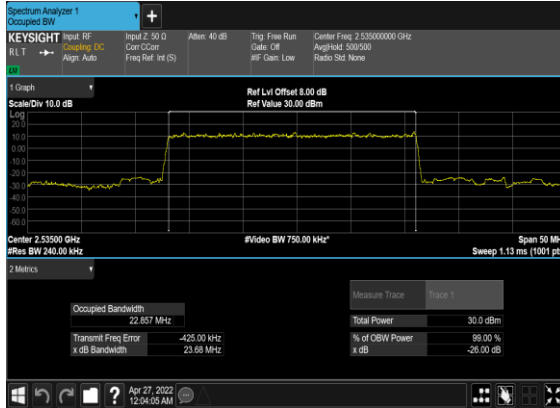
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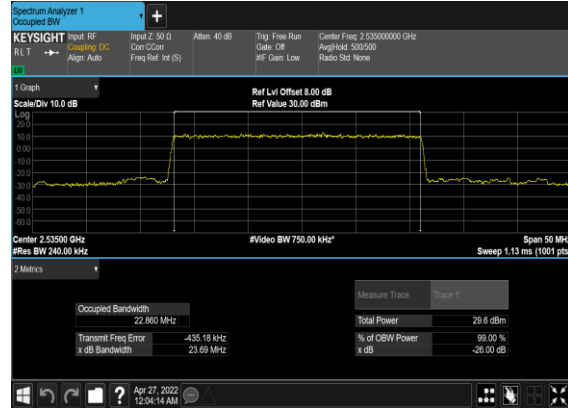
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QAM_Outer_Full_Mid_CH



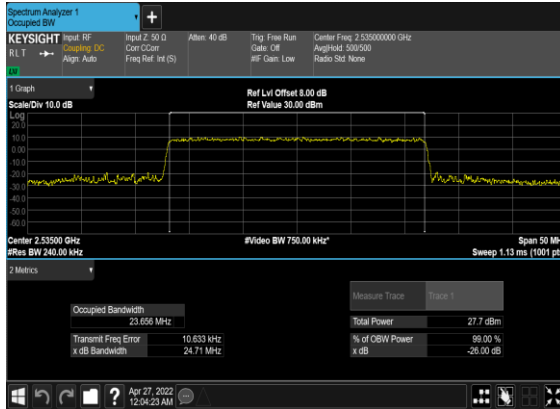
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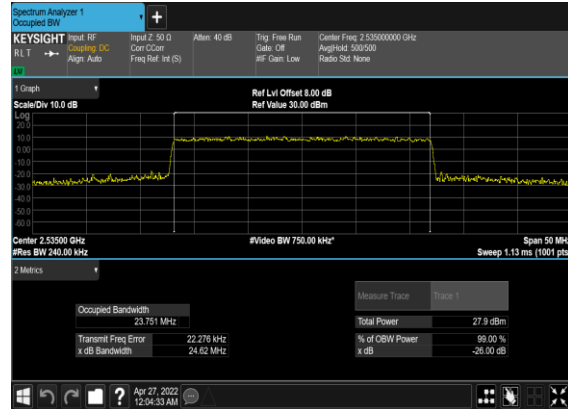
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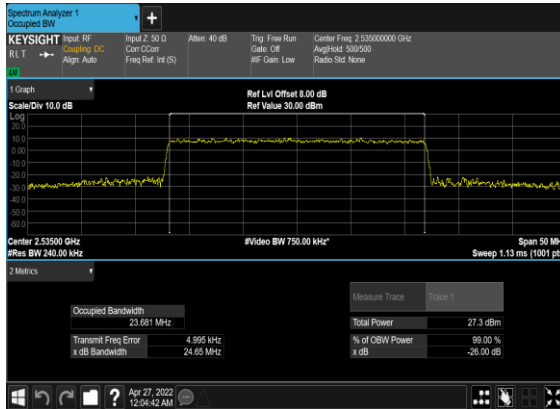
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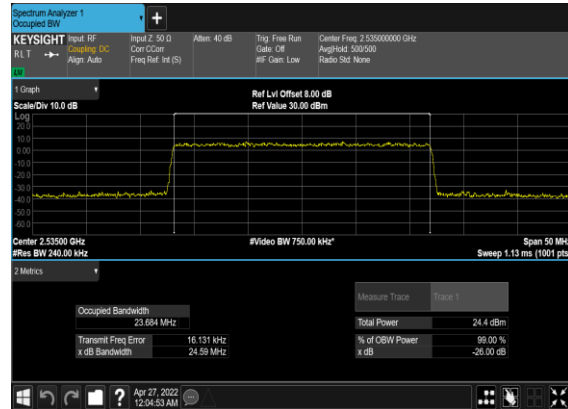
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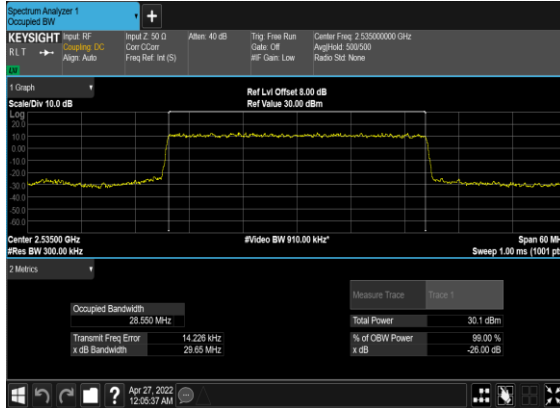
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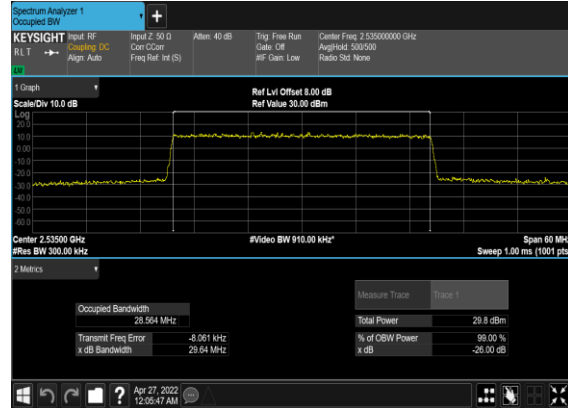
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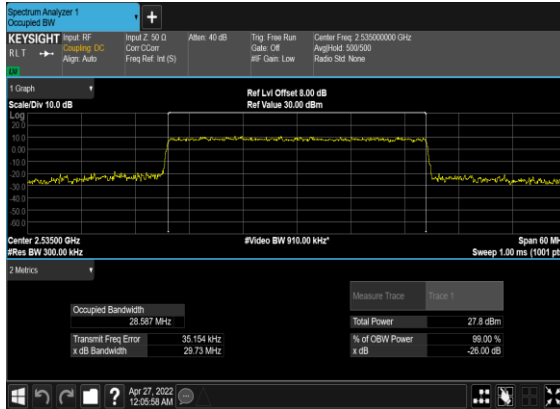
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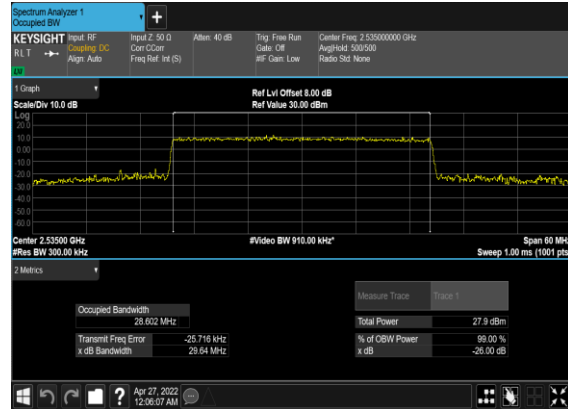
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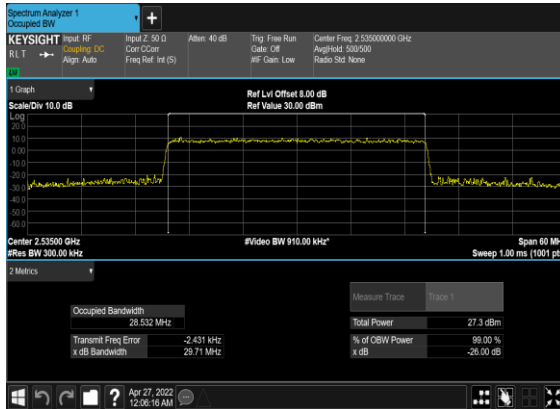
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OFDM_QPSK_Outer_Full_Mid_CH



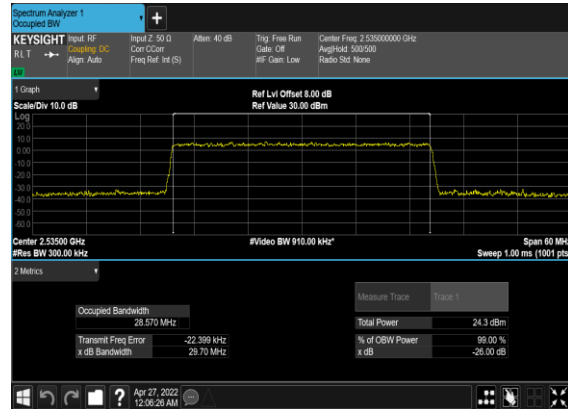
N7(30M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



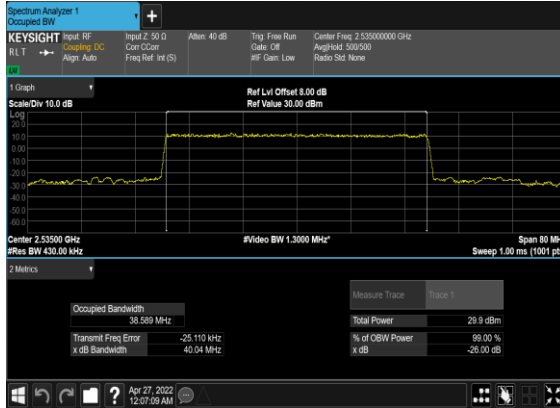
N7(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



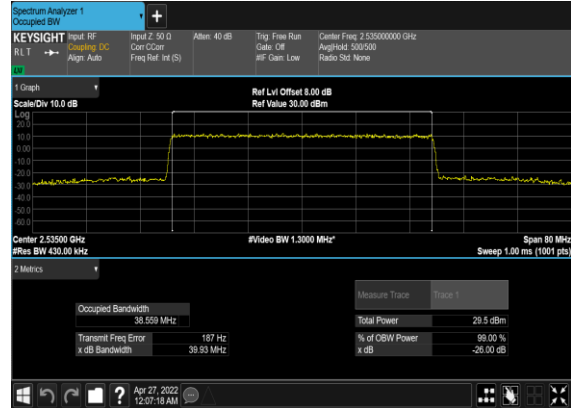
N7(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



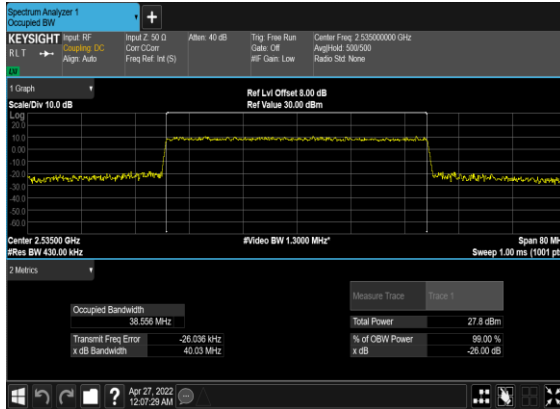
N7(40M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



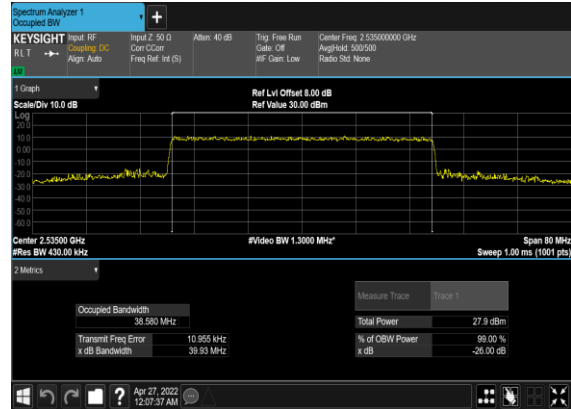
N7(40M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



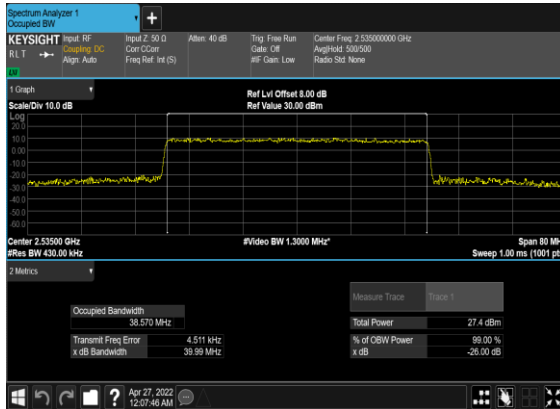
N7(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



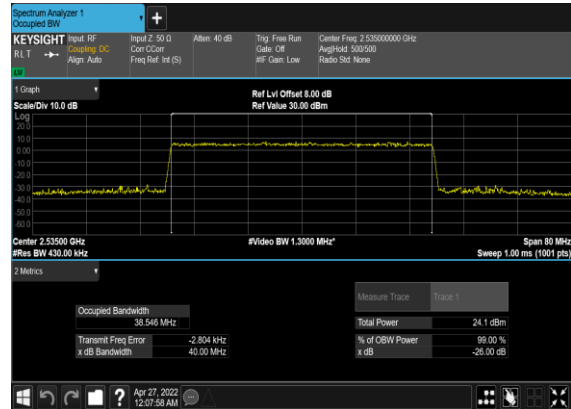
N7(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



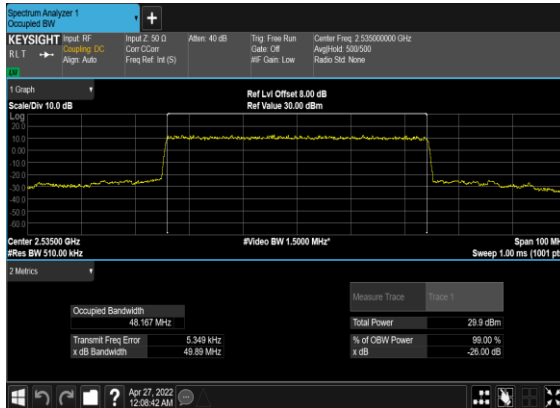
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QAM_Outer_Full_Mid_CH



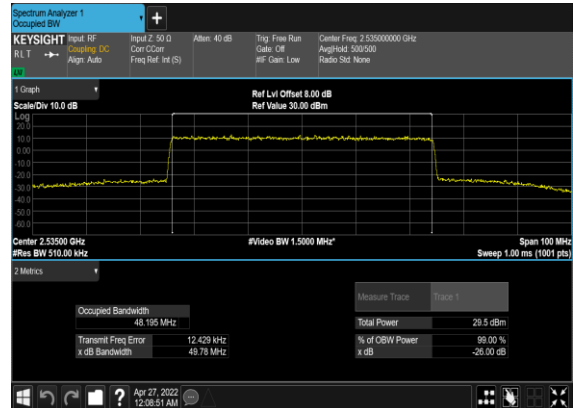
N7(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



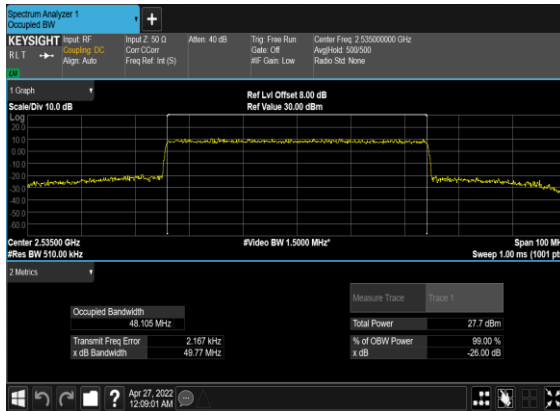
N7(50M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



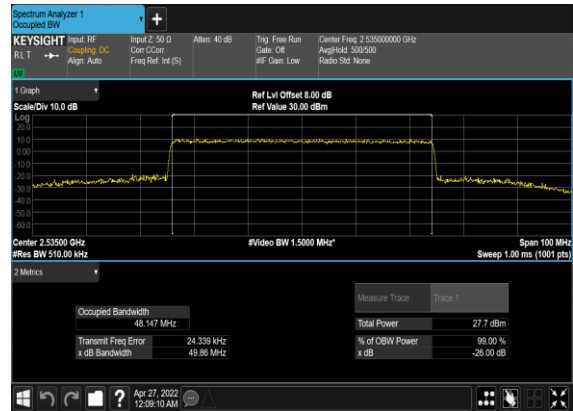
N7(50M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



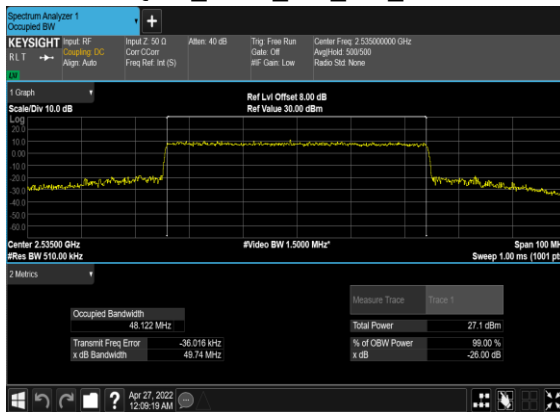
N7(50M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



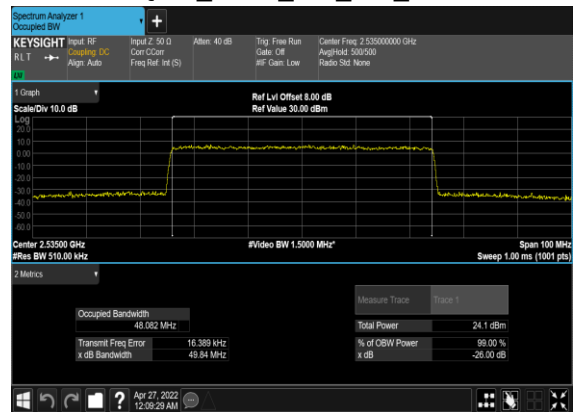
N7(50M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N7(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N7(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
7	15	5	524500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	5	524500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	524500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	524500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	524500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	524500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	531000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	5	531000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	531000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	531000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	531000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	531000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	537500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	5	537500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	537500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	537500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	537500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	537500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	526000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	20	526000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	526000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	526000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	---

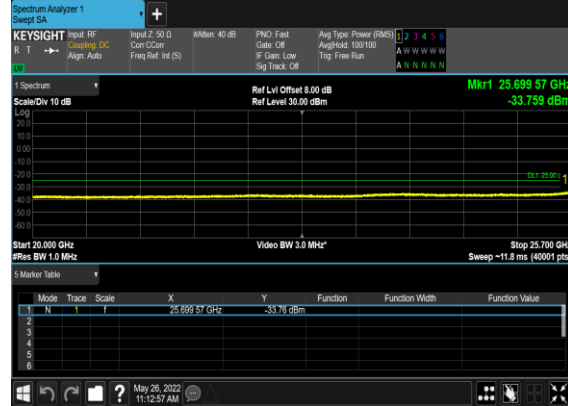
7	15	20	526000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	526000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	531000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	20	531000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	531000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	536000	2560.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	20	536000	2560.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	536000	2560.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	536000	2560.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	20	536000	2560.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	536000	2560.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	529000	2525.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	50	529000	2525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	529000	2525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	529000	2525.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	50	529000	2525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	529000	2525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	531000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	50	531000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	531000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	531000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---

7	15	50	531000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	531000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	533000	2545.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	50	533000	2545.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	533000	2545.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	533000	2545.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	50	533000	2545.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	533000	2545.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

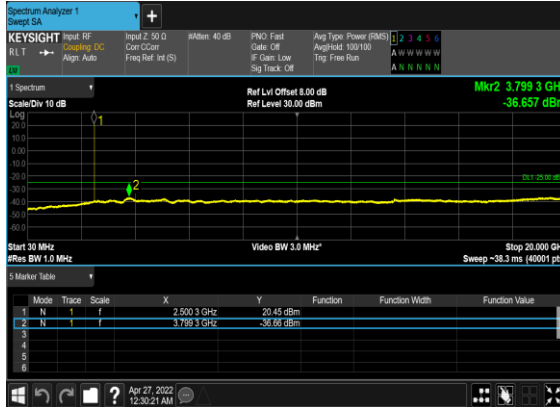
N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



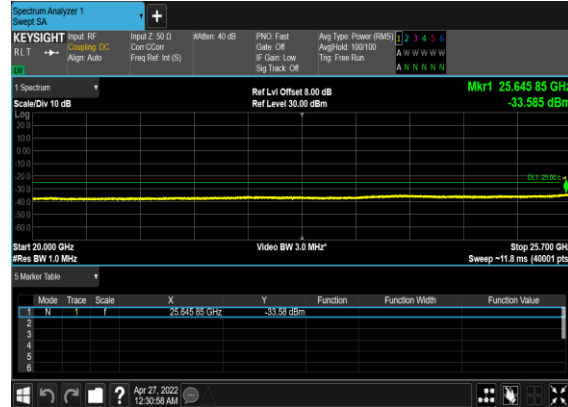
N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



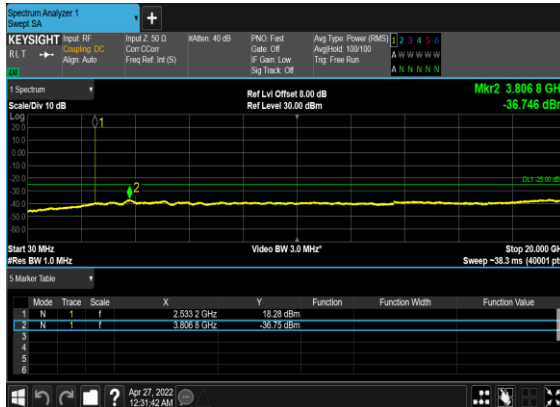
N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



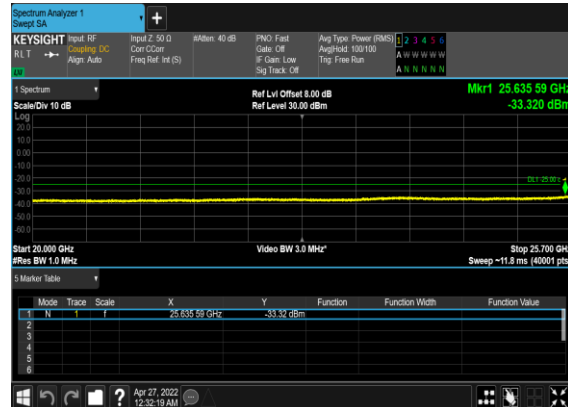
N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



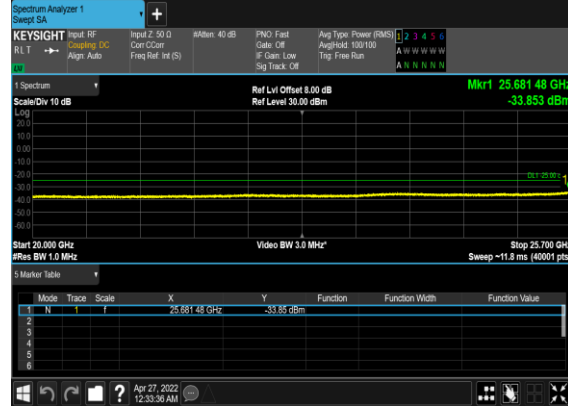
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OFDM_BPSK_Edge_1RB_Left_Mid_CH



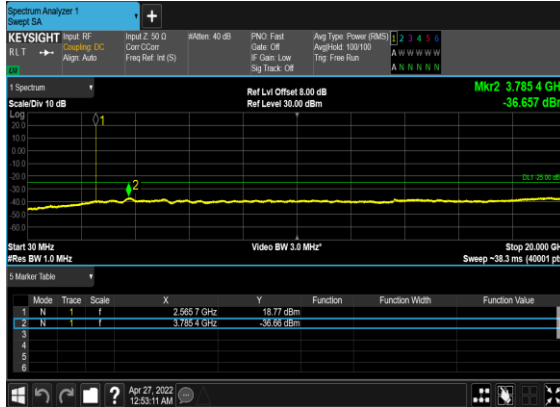
N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



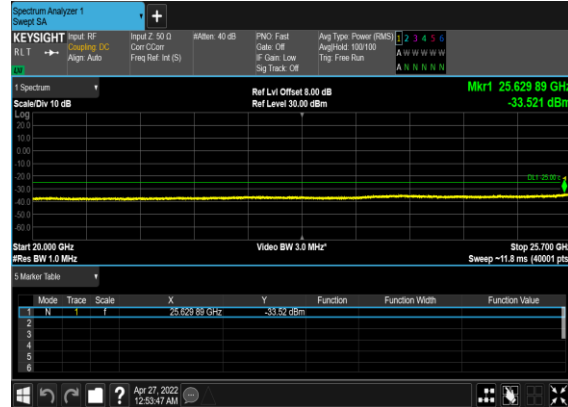
N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



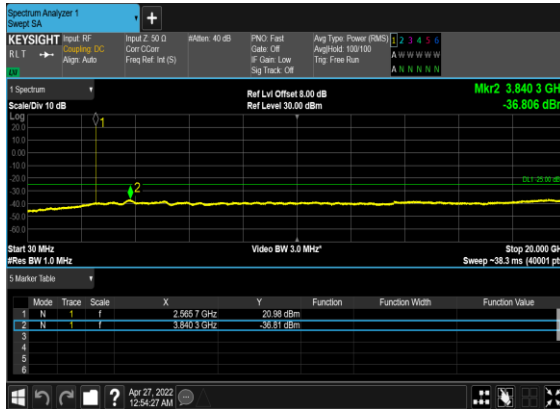
N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



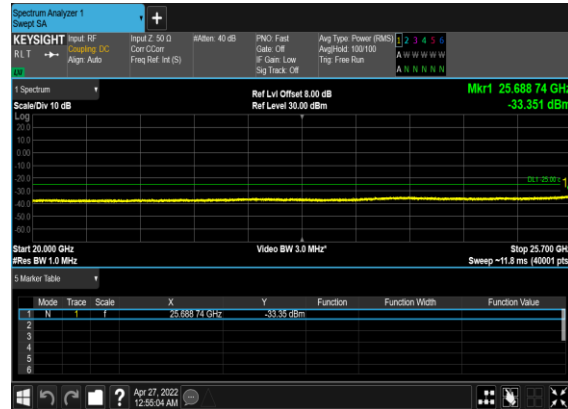
N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



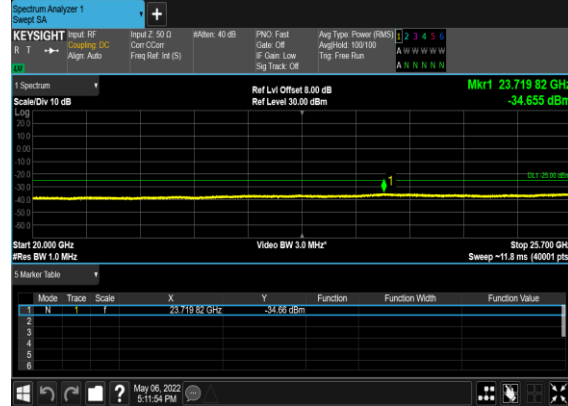
N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



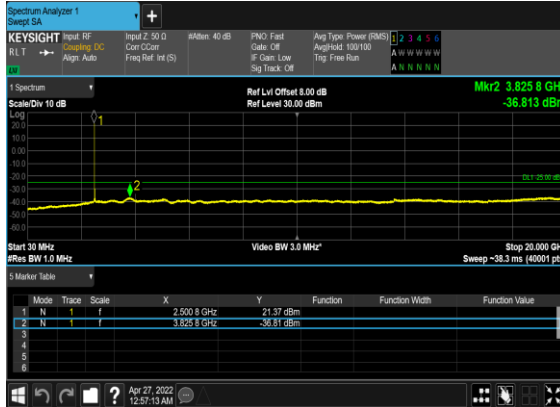
N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



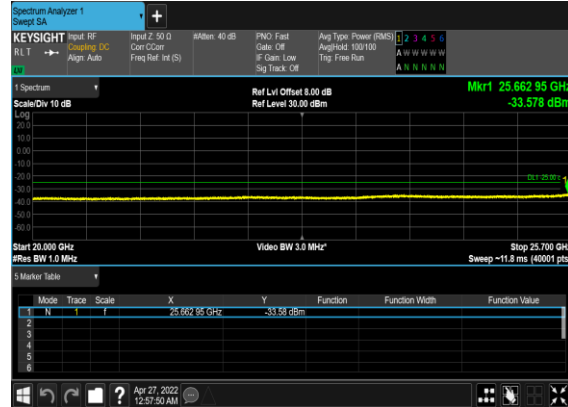
N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



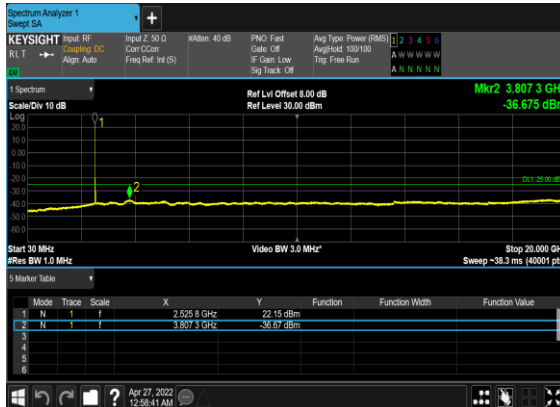
N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



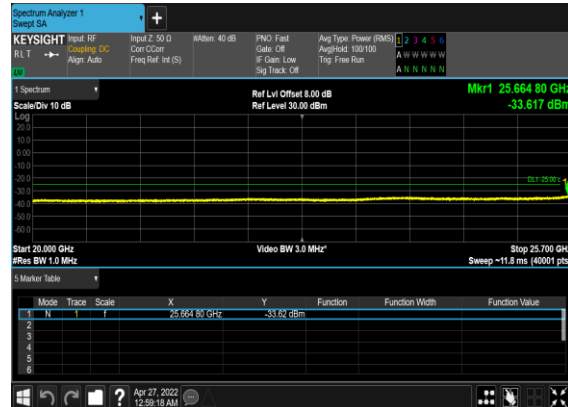
N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



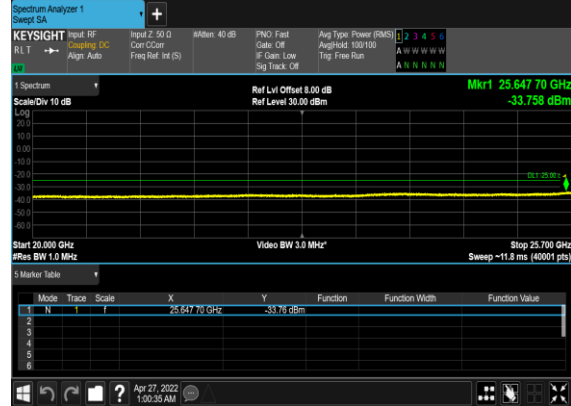
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OFDM_BPSK_Edge_1RB_Left_Mid_CH



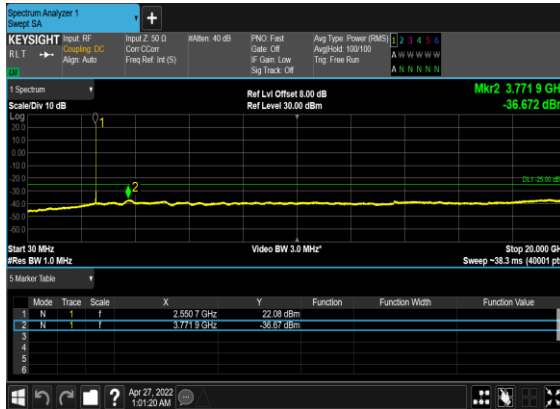
N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



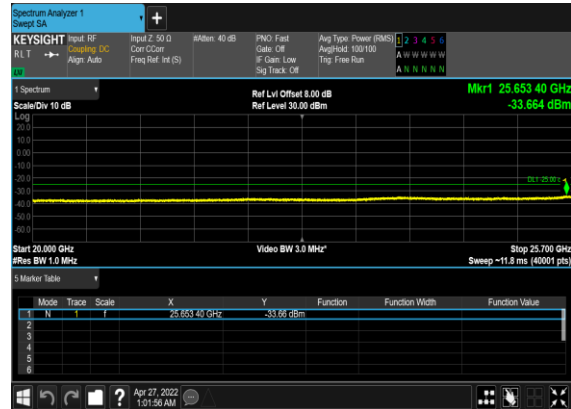
N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



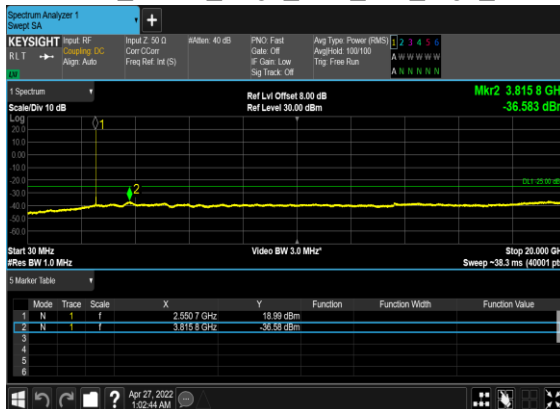
N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



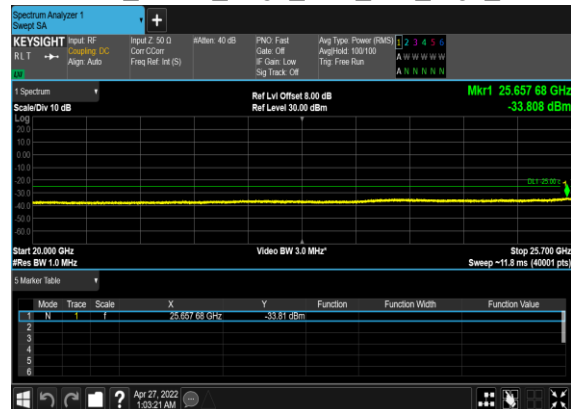
N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



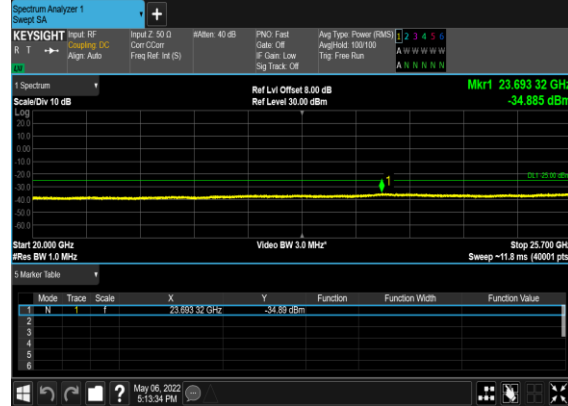
N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



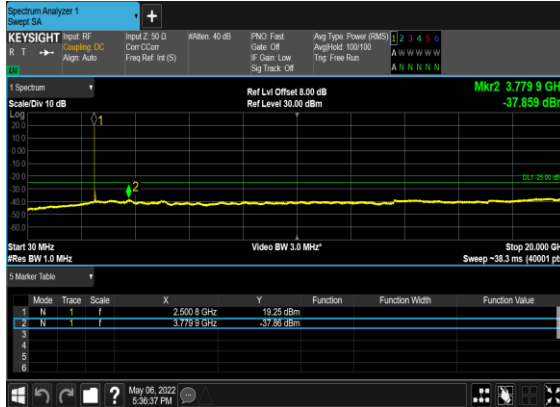
N7(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



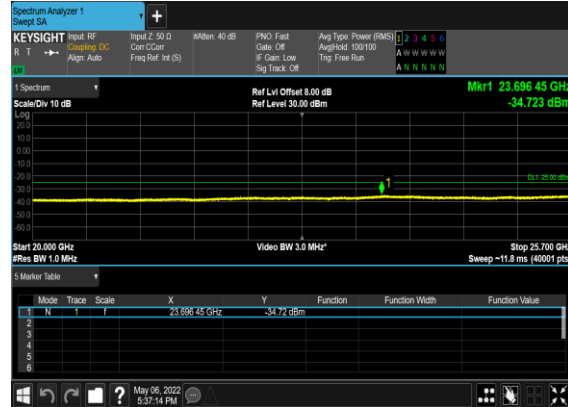
N7(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



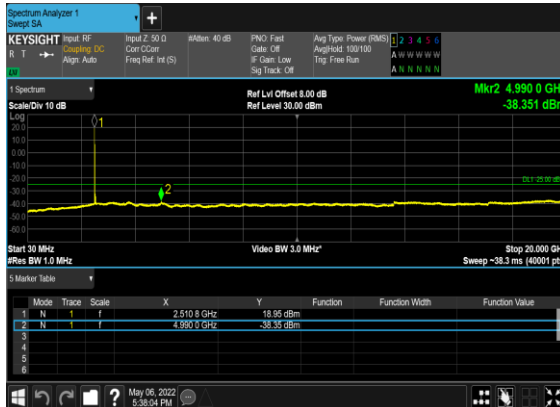
N7(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N7(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N7(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N7(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH

