FCC RADIO TEST REPORT

FCC ID	:	**A4RG025E**
Equipment	:	**Phone**
Model Name	:	**G025E**
Applicant	:	**Google LLC** **1600 Amphitheatre Parkway,** **Mountain View, California, 94043 USA**
Standard	:	**FCC 47 CFR Part 2, 22(H), 24(E), 27**

The product was received on Apr. 30, 2020 and testing was started from May 14, 2020 and completed on Jul. 06, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FG022521-02C	01	Initial issue of report	Jun. 26, 2020
FG022521-02C	02	Revise conducted data for band n71.	Jul. 06, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§22.913 (a)(2)	Effective Radiated Power (n5)	Pass	
	§27.50 (c)(10)	Effective Radiated Power (n12) (n71)		
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (n2) (n25) (n41)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (n66)		
3.3	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (h)	Conducted Band Edge Measurement (n2) (n5) (n12) (n25) (n66) (n71)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (n41)		
3.6	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (h)	Conducted Spurious Emission (n2) (n5) (n12) (n25) (n66) (n71)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (n41)		
3.7	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
4.2	§2.1053 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (h)	Radiated Spurious Emission (n2) (n5) (n12) (n25) (n66) (n71)	Pass	Under limit 16.71 dB at 7632.000 MHz for Primary Antenna Under limit 20.68 dB at 10170.000 MHz for ASDIV Antenna
	§2.1051 §27.53 (m)(4)	Radiated Spurious Emission (n41)		

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.

Reviewed by: Wii Chang

Report Producer: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Phone
Model Name	G025E
FCC ID	A4RG025E
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/ NFC/GNSS WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE

Remark: The above EUT's information was declared by manufacturer.

EUT Information List	
S/N	Performed Test Item
04211FQCB00006	Conducted Measurement ERP/EIRP
04241FQCB00299	Radiated Spurious Emission

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n2: 1852.5 MHz ~ 1907.5 MHz 5G NR n5: 826.5 MHz ~ 846.5 MHz 5G NR n12: 701.5 MHz ~ 713.5 MHz 5G NR n25: 1852.5 MHz ~ 1912.5 MHz 5G NR n41: 2506.02 MHz ~ 2679.99 MHz 5G NR n66: 1712.5 MHz ~ 1777.5 MHz 5G NR n71: 668.0 MHz ~ 693.0 MHz
Rx Frequency	5G NR n2: 1932.5 MHz ~ 1987.5 MHz 5G NR n5: 871.5 MHz ~ 891.5 MHz 5G NR n12: 731.5 MHz ~ 743.5 MHz 5G NR n25: 1932.5 MHz ~ 1992.5 MHz 5G NR n41: 2506.02 MHz ~ 2679.99 MHz 5G NR n66: 2112.5 MHz ~ 2197.5 MHz 5G NR n71: 668.0 MHz ~ 693.0 MHz
Bandwidth	5G NR n2: 5MHz / 10MHz / 15MHz / 20MHz 5G NR n5: 5MHz / 10MHz / 15MHz / 20MHz 5G NR n12: 5MHz / 10MHz / 15MHz 5G NR n25: 5MHz / 10MHz / 15MHz / 20MHz 5G NR n41: 20MHz / 40MHz / 50MHz / 60MHz / 80MHz / 90MHz / 100MHz 5G NR n66: 5MHz / 10MHz / 15MHz / 20MHz 5G NR n71: 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna <DFT-s-OFDM>	**<Primary Antenna>** **<Ant. 0>** 5G NR n5 : 24.08 dBm 5G NR n12 : 24.18 dBm 5G NR n71 : 25.29 dBm **<Ant. 2>** 5G NR n2 : 25.12 dBm 5G NR n25 : 25.15 dBm 5G NR n41 : 25.17 dBm 5G NR n66 : 25.43 dBm **<Ant. 5>** 5G NR n41 : 25.19 dBm 5G NR n41 : 26.98 dBm for HPUE **<ASDIV Antenna>** **<Ant. 0>** 5G NR n2 : 25.09 dBm 5G NR n25 : 25.13 dBm 5G NR n41 : 25.14 dBm 5G NR n66 : 25.38 dBm **<Ant. 1>** 5G NR n5 : 23.98 dBm 5G NR n12 : 24.07 dBm 5G NR n71 : 25.22 dBm

Standards-related Product Specification	
Maximum Output Power to Antenna <CP-OFDM >	**<Primary Antenna>** **<Ant. 0>** 5G NR n5 : 22.25 dBm 5G NR n12 : 23.02 dBm 5G NR n71 : 23.64 dBm **<Ant. 2>** 5G NR n2 : 23.54 dBm 5G NR n25 : 23.58 dBm 5G NR n41 : 23.78 dBm 5G NR n66 : 23.83 dBm **<Ant. 5>** 5G NR n41 : 23.87 dBm 5G NR n41 : 25.45 dBm for HPUE **<ASDIV Antenna>** **<Ant. 0>** 5G NR n2 : 23.33 dBm 5G NR n25 : 23.36 dBm 5G NR n41 : 22.63 dBm 5G NR n66 : 23.82 dBm **<Ant. 1>** 5G NR n5 : 22.21 dBm 5G NR n12 : 22.93 dBm 5G NR n71 : 23.52 dBm
Antenna Type	**<Primary Antenna>:** **<Ant. 0>:** PIFA Antenna type **<Ant. 2>:** Monopole Antenna type **<Ant. 5>:** PIFA Antenna type **<ASDIV Antenna>:** **<Ant. 0>:** PIFA Antenna type **<Ant. 1>:** PIFA Antenna type
Type of Modulation	PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

<Primary Antenna>

Radio Tech	Band Number	Antenna name	Gain
5G NR	n2	ANT2	2.2
5G NR	n5	ANT0	-2.8
5G NR	n12	ANT0	-3.9
5G NR	n25	ANT2	2.2
5G NR	n41	ANT2	-0.9
		ANT5	1.0
5G NR	n41HPUE	ANT5	1.0
5G NR	n66	ANT2	1.2
5G NR	n71	ANT0	-5.1

<ASDIV Antenna>

Radio Tech	Band Number	Antenna name	Gain
5G NR	n2	ANT0	0.4
5G NR	n5	ANT1	-3.5
5G NR	n12	ANT1	-6.1
5G NR	n25	ANT0	0.4
5G NR	n41	ANT0	-0.9
5G NR	n66	ANT0	0.8
5G NR	n71	ANT1	-7.3

1.3 Modification of EUT

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

1.4 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	**Sporton Site No.**	
	TH05-HY	03CH07-HY
Test Engineer	Peter Liao	Jesse Wang, Stan Hsieh, Ken Wu
Temperature	18℃	23~25℃
Relative Humidity	56%	53~56%

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190

1.5 Applicable Standards

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

- ANSI C63.26-2015
- ANSI / TIA-603-E
- FCC 47 CFR Part 2, 22(H), 24(E), 27
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01.

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below 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 (Primary Antenna: X plane for Band n2, n25, n41 (HPUE), n71 ; Y plane for Band n41, n66 ; Z plane for Band n5, n12 ; ASDIV Antenna: X plane for Band n2, n12, n25, n41 ; Y plane for Band n66, n71 ; Z plane for Band n5) were recorded in this report.

Test Items	NR Band	Bandwidth (MHz)						Modulation					RB #			Test Channel		
		5	10	15	20	40	50	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n2	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v	v
	n5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v	v
	n12	v	v	v	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n25	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v	v
	n66	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v	v
	n71	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	Covered by n25																	
	n5				v	-	-	v	v	v	v	v	v		v	v	v	v
	n12			v	-	-	-	v	v	v	v	v	v		v	v	v	v
	n25				v	-	-	v	v	v	v	v	v		v	v	v	v
	n66				v	-	-	v	v	v	v	v	v		v	v	v	v
	n71				v	-	-	v	v	v	v	v	v		v	v	v	v
26dB and 99% Bandwidth	Covered by n25																	
	n5	v	v	v	v	-	-	v	v	v	v	v			v	v	v	v
	n12	v	v	v	-	-	-	v	v	v	v	v			v	v	v	v
	n25	v	v	v	v	-	-	v	v	v	v	v			v	v	v	v
	n66	v	v	v	v	-	-	v	v	v	v	v			v	v	v	v
	n71	v	v	v	v	-	-	v	v	v	v	v			v	v	v	v
Conducted Band Edge	Covered by n25																	
	n5	v	v	v	v	-	-	v	v	v	v	v	v		v	v		v
	n12	v	v	v	-	-	-	v	v	v	v	v	v		v	v		v
	n25	v	v	v	v	-	-	v	v	v	v	v	v		v	v		v
	n66	v	v	v	v	-	-	v	v	v	v	v	v		v	v		v
	n71	v	v	v	v	-	-	v	v	v	v	v	v		v	v		v

Test Items	NR Band	Bandwidth (MHz)						Modulation					RB #			Test Channel		
		5	10	15	20	40	50	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	Covered by n25																	
	n5	v	v	v	v	-	-	v	v	v	v	v	v			v	v	v
	n12	v	v	v	-	-	-	v	v	v	v	v	v			v	v	v
	n25	v	v	v	v	-	-	v	v	v	v	v	v			v	v	v
	n66	v	v	v	v	-	-	v	v	v	v	v	v			v	v	v
	n71	v	v	v	v	-	-	v	v	v	v	v	v			v	v	v
Frequency Stability	Covered by n25																	
	n5				v	-	-		v						v		v	
	n12			v	-	-	-		v						v		v	
	n25				v	-	-		v						v		v	
	n66				v	-	-		v						v		v	
	n71				v	-	-		v						v		v	
E.R.P / E.I.R.P	n2	v	v	v	v	-	-	v	v	v	v	v	v			v	v	v
	n5	v	v	v	v	-	-	v	v	v	v	v	v			v	v	v
	n12	v	v	v	-	-	-	v	v	v	v	v	v			v	v	v
	n25	v	v	v	v	-	-	v	v	v	v	v	v			v	v	v
	n66	v	v	v	v	-	-	v	v	v	v	v	v			v	v	v
	n71	v	v	v	v	-	-	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	n2	Worst Case															v	
	n5	Worst Case														v	v	v
	n12	Worst Case														v	v	v
	n25	Worst Case														v	v	v
	n66	Worst Case														v	v	v
	n71	Worst Case														v	v	v

Remark

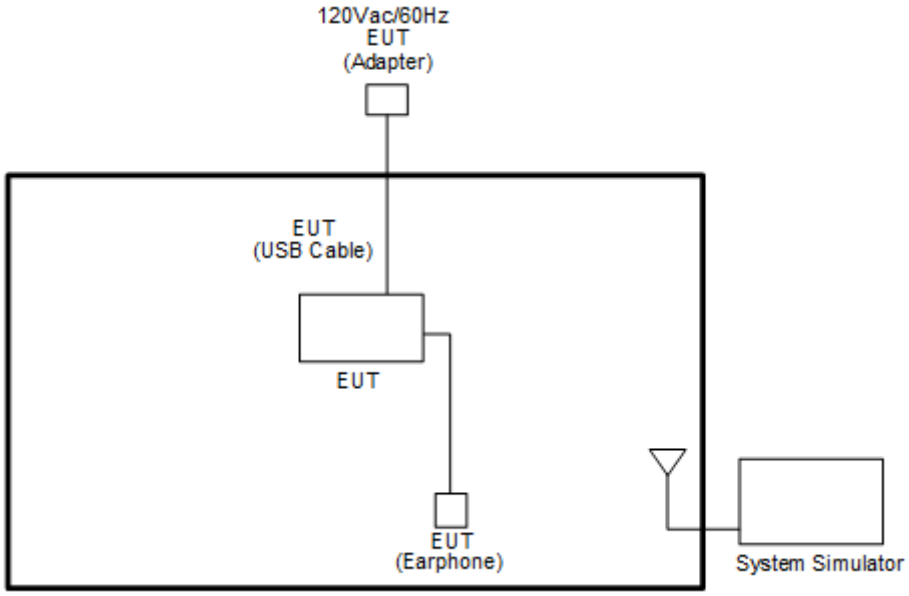
1. The mark "**v** " means that this configuration is chosen for testing
2. The mark "-" means that this bandwidth is not supported.
3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.
4. Test combination is EN-DC 5A-n2A, EN-DC 13A-n2A, EN-DC 14A-n2A, EN-DC 2A-n5A, EN-DC 7A-n5A, EN-DC 30A-n5A, EN-DC 48A-n5A, EN-DC66A-n5A, EN-DC 2A-n12A, EN-DC 66A-n12A, EN-DC 12A-n25A, EN-DC 5A-n66A, EN-DC 12A-n66A, EN-DC 13A-n66A, EN-DC 14A-n66A, EN-DC 48A-n66A, EN-DC 71A-n66A, EN-DC 2A-n71A, EN-DC 7A-n71A, EN-DC 66A-n71A.
5. For radiated measurement, pre-scanned in two modes, DFT-s OFDM and CP OFDM. The worst cases (DFT-s OFDM) were recorded in this report.
6. All the radiated test cases were performed with Adapter 1 and USB Cable 1.

Test Items	NR Band	Bandwidth (MHz)									Modulation					RB #			Test Channel		
		10	15	20	40	50	60	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n41			v	v	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	v	v	v
26dB and 99% Bandwidth	n41			v	v	v	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	v	v	v	v		v	v		v
Conducted Spurious Emission	n41			v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
Frequency Stability	n41			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
Radiated Spurious Emission	n41	Worst Case																	v	v	v

Remark

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. Test combination is EN-DC 26A-n41, EN-DC 25A-n41 (HPUE), EN-DC 66A-n41 (HPUE).
5. For radiated measurement, pre-scanned in two modes, DFT-s OFDM and CP OFDM. The worst cases (DFT-s OFDM) were recorded in this report.
6. The 5G NR n41 test items make the EUT get into the FTM modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.
7. All the radiated test cases were performed with Adapter 1 and USB Cable 1.

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.	System Simulator	Keysight	E7515B	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	System Simulator	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 and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G NR Band n2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376000	380000
	Frequency	1860	1880	1900
15	Channel	371500	376000	380500
	Frequency	1857.5	1880	1902.5
10	Channel	371000	376000	381000
	Frequency	1855	1880	1905
5	Channel	370500	376000	381500
	Frequency	1852.5	1880	1907.5

5G NR Band n5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5

5G NR Band n12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	141300	141500	141700
	Frequency	706.5	707.5	708.5
10	Channel	140800	141500	142200
	Frequency	704	707.5	711
5	Channel	140300	141500	142700
	Frequency	701.5	707.5	713.5

5G NR Band n25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376500	381000
	Frequency	1860	1882.5	1905
15	Channel	371500	376500	381500
	Frequency	1857.5	1882.5	1907.5
10	Channel	371000	376500	382000
	Frequency	1855	1882.5	1910
5	Channel	370500	376500	382500
	Frequency	1852.5	1882.5	1912.5

5G NR Band n41 Channel and Frequency List				
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
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
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99

5G NR Band n66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	344000	349000	354000
	Frequency	1720	1745	1770
15	Channel	343500	349000	354500
	Frequency	1717.5	1745	1772.5
10	Channel	343000	349000	355000
	Frequency	1715	1745	1775
5	Channel	342500	349000	355500
	Frequency	1712.5	1745	1777.5

5G NR Band n71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	134600	136100	137600
	Frequency	673	680.5	688
15	Channel	134100	136100	138100
	Frequency	670.5	680.5	690.5
10	Channel	133600	136100	138600
	Frequency	668	680.5	693
5	Channel	133100	136100	139100
	Frequency	665.5	680.5	695.5

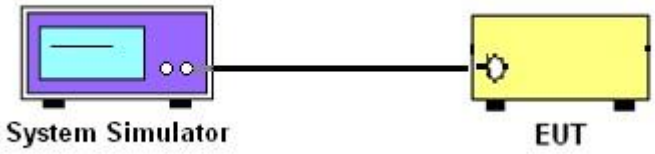
3 Conducted Test Items

3.1 Measuring Instruments

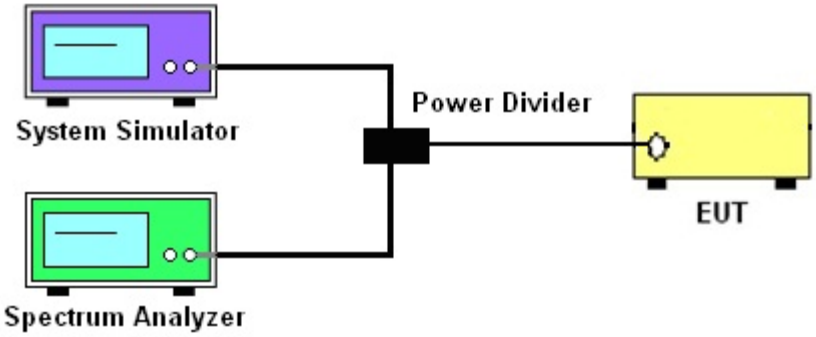
See list of measuring instruments of this test report.

3.1.1 Test Setup

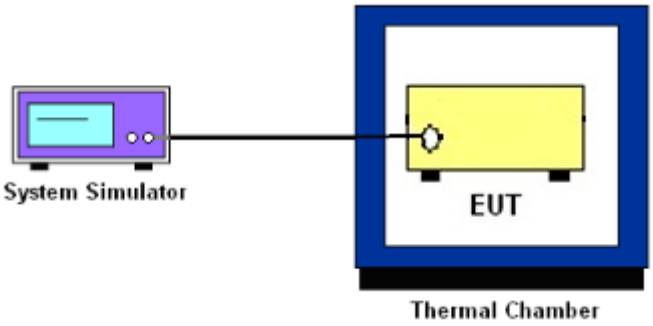
3.1.2 Conducted Output Power



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



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power and ERP/EIRP

3.2.1 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 7 Watts for 5G NR n5

The ERP of mobile transmitters must not exceed 3 Watts for 5G NR n12 and n71

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n2 and n25 and n41

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n66

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

3.2.2 Test Procedures

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

3.3 Peak-to-Average Ratio

3.3.1 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.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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

3.4 Occupied Bandwidth

3.4.1 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.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. 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.
4. Set the detection mode to peak, and the trace mode to max hold.
5. 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)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. 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.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100kHz 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.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (g)

For operations in the 600MHz band and 698-746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(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 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(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(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 that 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.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

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

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

   For 5G NR n41

   The other 40 dB, and 55 dB have additionally applied same calculation above.

3.6 Conducted Spurious Emission

3.6.1 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 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.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

   For 5G NR n41

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

3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

22.355

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 ±0.00025% (±2.5ppm) of the center frequency.

24.235 & 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. 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.
3. 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.

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at 20±5° C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

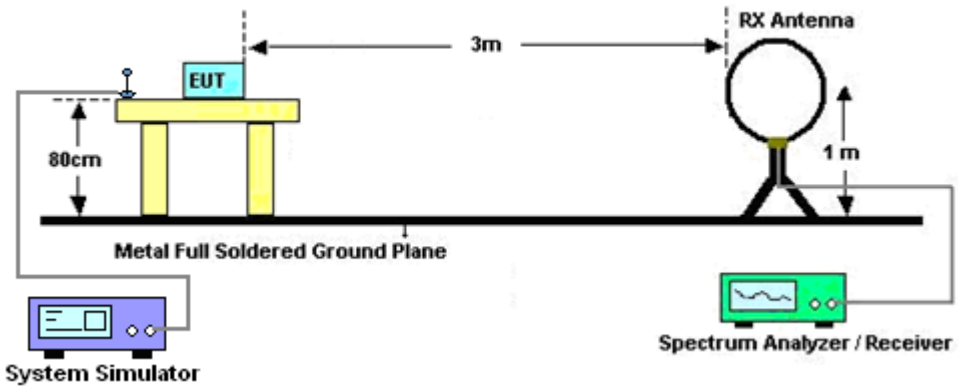
4 Radiated Test Items

4.1 Measuring Instruments

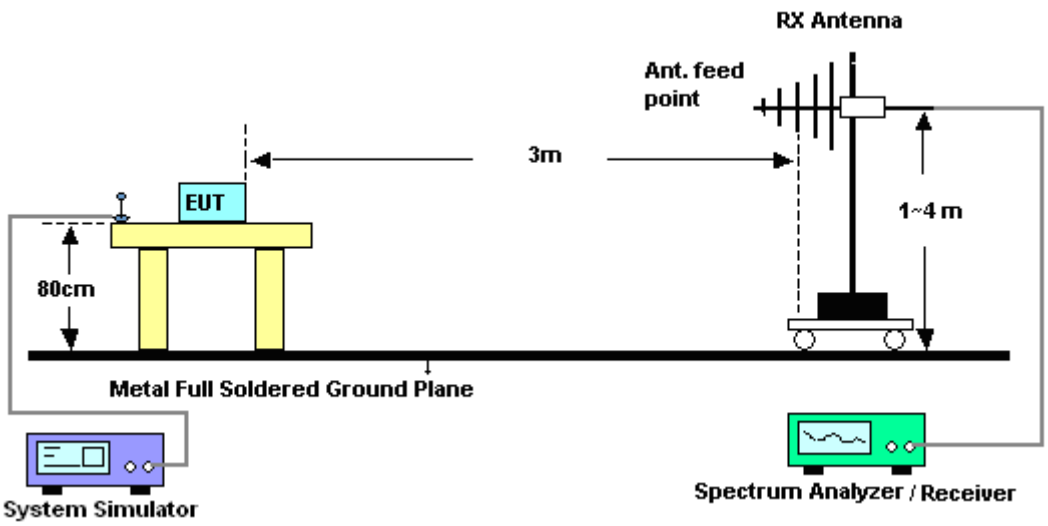
See list of measuring instruments of this test report.

4.1.1 Test Setup

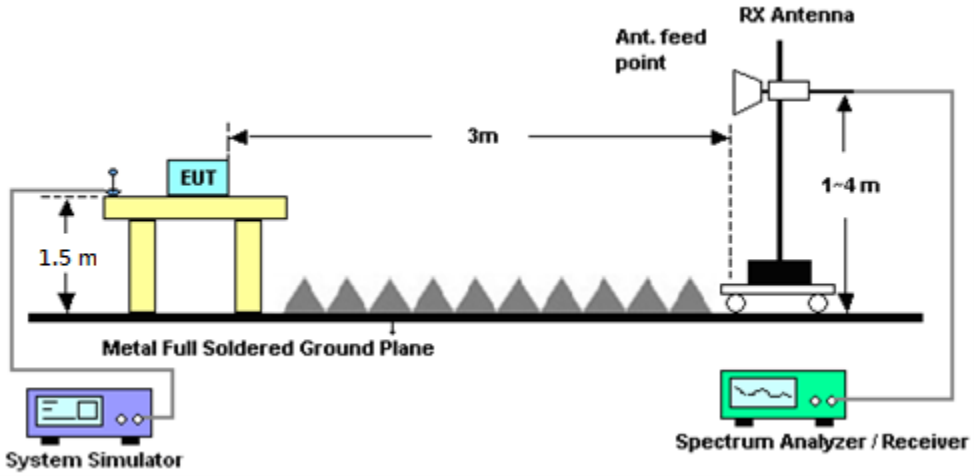
For radiated emissions below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. 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 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.

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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

    For 5G NR n41

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

    EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

    ERP (dBm) = EIRP - 2.15

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
DC Power Supply	GW Instek	GPE2323	GET910884	0V~64V ; 0A~6A	N/A	May 14, 2020~ Jul. 06, 2020	N/A	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 15, 2019	May 14, 2020~ Jul. 06, 2020	Nov. 14, 2020	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 02, 2019	May 14, 2020~ Jul. 06, 2020	Sep. 01, 2020	Conducted (TH05-HY)
Base Station (Measure)	Anritsu	MT8821C	6262044657	WWAN	Jan. 16, 2020	May 14, 2020~ Jul. 06, 2020	Jan. 15, 2021	Conducted (TH05-HY)
Base Station (Measure)	Anritsu	MT8000A	6262012917	5GNR	Jan. 20, 2020	May 14, 2020~ Jul. 06, 2020	Jan. 19, 2021	Conducted (TH05-HY)
UXM 5G Wireless Test Platform	Keysight	E7515B	MY59321826	FR1 (24.25GHz-29.5 GHz)	Feb. 14, 2020	May 14, 2020~ Jul. 06, 2020	Feb. 13, 2021	Conducted (TH05-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 29, 2020	Jun. 03, 2020~ Jun. 11, 2020	Apr. 28, 2021	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 06, 2019	Jun. 03, 2020~ Jun. 11, 2020	Dec. 05, 2020	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	May 21, 2020	Jun. 03, 2020~ Jun. 11, 2020	May 20, 2021	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	May 19, 2020	Jun. 03, 2020~ Jun. 11, 2020	May 18, 2021	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Nov. 01, 2019	Jun. 03, 2020~ Jun. 11, 2020	Oct. 31, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2,80 1606/2	18GHz~40GHz	Feb. 25, 2020	Jun. 03, 2020~ Jun. 11, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 25, 2020	Jun. 03, 2020~ Jun. 11, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 25, 2020	Jun. 03, 2020~ Jun. 11, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
Controller	ChainTek	Chaintek 3000	N/A	Control Turn table	N/A	Jun. 03, 2020~ Jun. 11, 2020	N/A	Radiation (03CH07-HY)
Controller	Max-Full	MF7802	MF78020836 8	Control Ant Mast	N/A	Jun. 03, 2020~ Jun. 11, 2020	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Jun. 03, 2020~ Jun. 11, 2020	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Jun. 03, 2020~ Jun. 11, 2020	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	N/A	Jun. 03, 2020~ Jun. 11, 2020	N/A	Radiation (03CH07-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Feb. 10, 2020	Jun. 03, 2020~ Jun. 11, 2020	Feb. 09, 2021	Radiation (03CH07-HY)
Horn Antenna	EMCO	3117	00143261	1GHz~18GHz	Jan. 10, 2020	Jun. 03, 2020~ Jun. 11, 2020	Jan. 09, 2021	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917025 1	18GHz~40GHz	Nov. 26, 2019	Jun. 03, 2020~ Jun. 11, 2020	Nov. 25, 2020	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 13, 2019	Jun. 03, 2020~ Jun. 11, 2020	Dec. 12, 2020	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	N/A	N/A	N/A	Jun. 03, 2020~ Jun. 11, 2020	N/A	Radiation (03CH07-HY)
Signal Generator	Anritsu	MG3710A	6261943042	2G / 3G / LTE / 5G FR1	N/A	Jun. 03, 2020~ Jun. 11, 2020	N/A	Radiation (03CH07-HY)

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.23

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.63

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.70

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

<Primary Antenna>
<DFT-s-OFDM>

NR n2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	PI/2 BPSK	24.60	24.67	24.27
5	1	23		24.89	24.60	23.73
5	12	6		24.56	24.80	24.24
5	1	0		24.30	24.13	23.88
5	1	24		24.23	24.09	23.71
5	25	0		24.09	24.22	23.65
5	1	1	QPSK	24.59	24.34	24.29
5	1	23		24.37	24.60	24.41
5	12	6		24.52	24.69	24.55
5	1	0		23.57	23.56	23.44
5	1	24		23.44	23.65	23.41
5	25	0		23.79	23.72	23.16
5	1	1	16-QAM	23.53	23.87	23.52
5	1	1	64-QAM	21.90	22.16	21.84
5	1	1	256-QAM	19.90	19.71	19.63

NR n2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	PI/2 BPSK	24.73	24.57	24.37
10	1	50		24.85	24.75	23.72
10	25	12		24.69	24.87	24.26
10	1	0		23.97	23.78	23.82
10	1	51		24.36	24.20	23.24
10	50	0		24.08	24.07	23.79
10	1	1	QPSK	24.43	24.53	24.51
10	1	50		24.60	24.61	23.96
10	25	12		24.75	24.86	24.60
10	1	0		23.79	23.86	23.52
10	1	51		23.84	23.74	23.51
10	50	0		23.64	23.54	23.28
10	1	1	16-QAM	23.69	23.72	23.46
10	1	1	64-QAM	22.23	22.10	21.91
10	1	1	256-QAM	19.88	19.98	19.98

NR n2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	PI/2 BPSK	24.63	24.71	23.85
15	1	77		24.52	24.92	23.89
15	36	18		25.11	24.79	24.52
15	1	0		24.47	23.89	23.62
15	1	78		23.88	24.09	23.36
15	75	0		24.40	24.50	23.81
15	1	1	QPSK	24.70	24.61	23.85
15	1	77		24.64	24.60	23.93
15	36	18		24.64	24.70	24.63
15	1	0		23.70	23.80	23.63
15	1	78		23.97	23.93	22.96
15	75	0		23.72	23.55	23.40
15	1	1	16-QAM	23.94	23.78	23.31
15	1	1	64-QAM	22.61	22.31	22.37
15	1	1	256-QAM	19.92	19.82	19.83

NR n2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	PI/2 BPSK	**25.12**	25.07	24.62
20	1	104		24.90	24.88	24.36
20	50	25		24.89	24.79	24.92
20	1	0		24.50	24.41	24.40
20	1	105		24.25	24.30	23.62
20	100	0		24.51	24.47	24.27
20	1	1	QPSK	24.80	24.74	24.78
20	1	104		24.55	24.68	24.46
20	50	25		24.84	24.90	24.44
20	1	0		23.88	23.72	23.84
20	1	105		23.90	23.92	23.90
20	100	0		23.72	23.94	23.65
20	1	1	16-QAM	23.80	23.87	23.88
20	1	1	64-QAM	22.36	22.16	22.18
20	1	1	256-QAM	20.35	20.06	19.88

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	PI/2 BPSK	23.97	23.86	23.91
5	1	23		23.82	23.79	23.16
5	12	6		23.91	23.83	23.44
5	1	0		23.46	23.40	23.47
5	1	24		23.33	23.30	23.09
5	25	0		23.39	23.35	23.37
5	1	1	QPSK	23.85	23.81	23.84
5	1	23		23.76	23.71	23.62
5	12	6		23.86	23.74	23.84
5	1	0		22.99	22.84	22.94
5	1	24		22.85	22.78	22.50
5	25	0		22.83	22.79	22.85
5	1	1	16-QAM	23.07	22.93	23.02
5	1	1	64-QAM	21.43	21.34	21.35
5	1	1	256-QAM	19.13	19.06	19.10

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	PI/2 BPSK	23.92	23.85	23.77
10	1	50		23.80	23.78	23.26
10	25	12		23.89	23.98	23.92
10	1	0		23.32	23.28	23.26
10	1	51		23.29	23.27	22.73
10	50	0		23.35	23.42	23.40
10	1	1	QPSK	23.83	23.81	23.70
10	1	50		23.76	23.76	23.59
10	25	12		23.87	23.81	23.91
10	1	0		22.95	22.85	22.83
10	1	51		22.76	22.86	22.74
10	50	0		22.79	22.82	22.91
10	1	1	16-QAM	22.96	22.92	22.85
10	1	1	64-QAM	21.38	21.32	21.23
10	1	1	256-QAM	19.06	19.01	18.96

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	PI/2 BPSK	24.04	23.96	23.90
15	1	77		23.89	23.90	23.51
15	36	18		23.92	24.03	23.85
15	1	0		23.51	23.38	23.39
15	1	78		23.35	23.36	22.96
15	75	0		23.47	23.58	23.48
15	1	1	QPSK	23.95	23.90	23.82
15	1	77		23.79	23.85	23.50
15	36	18		23.83	23.90	23.74
15	1	0		22.98	22.89	22.91
15	1	78		22.80	22.91	22.75
15	75	0		22.89	22.95	22.96
15	1	1	16-QAM	23.12	23.00	23.01
15	1	1	64-QAM	21.42	21.32	21.37
15	1	1	256-QAM	19.10	19.13	19.15

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	PI/2 BPSK	24.05	**24.08**	24.02
20	1	104		23.91	23.97	23.86
20	50	25		24.02	24.06	24.06
20	1	0		23.45	23.40	23.41
20	1	105		23.36	23.34	23.07
20	100	0		23.53	23.60	23.57
20	1	1	QPSK	23.82	23.91	23.87
20	1	104		23.75	23.85	23.41
20	50	25		23.99	24.01	23.90
20	1	0		23.02	23.04	22.88
20	1	105		22.90	22.86	22.83
20	100	0		23.01	23.00	23.05
20	1	1	16-QAM	23.01	23.03	23.01
20	1	1	64-QAM	21.32	21.42	21.32
20	1	1	256-QAM	19.04	19.08	19.06

NR n12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	PI/2 BPSK	23.93	23.83	23.67
5	1	23		23.74	23.61	23.49
5	12	6		23.80	23.77	23.52
5	1	0		23.47	23.39	23.23
5	1	24		23.32	23.24	23.01
5	25	0		23.40	23.36	23.14
5	1	1	QPSK	23.86	23.78	23.60
5	1	23		23.72	23.74	23.40
5	12	6		23.87	23.74	23.54
5	1	0		23.20	23.21	22.99
5	1	24		22.82	23.05	22.66
5	25	0		23.13	23.15	22.93
5	1	1	16-QAM	23.36	23.27	23.04
5	1	1	64-QAM	21.70	21.59	21.41
5	1	1	256-QAM	19.25	19.16	19.01

NR n12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	PI/2 BPSK	23.85	23.87	23.78
10	1	50		23.65	23.69	23.54
10	25	12		23.84	23.85	23.74
10	1	0		23.43	23.47	23.28
10	1	51		23.21	23.29	23.08
10	50	0		23.39	23.50	23.33
10	1	1	QPSK	23.76	23.82	23.71
10	1	50		23.45	23.41	23.47
10	25	12		23.31	23.42	23.49
10	1	0		23.10	22.63	22.72
10	1	51		23.05	22.49	22.74
10	50	0		23.17	22.32	23.03
10	1	1	16-QAM	23.34	23.23	23.14
10	1	1	64-QAM	21.66	21.59	21.53
10	1	1	256-QAM	19.30	19.25	19.17

NR n12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	PI/2 BPSK	**24.18**	24.05	24.04
15	1	77		23.81	23.76	23.74
15	36	18		24.01	24.00	23.98
15	1	0		23.63	23.66	23.56
15	1	78		23.45	23.29	23.27
15	75	0		23.59	23.67	23.53
15	1	1	QPSK	24.17	24.03	24.05
15	1	77		23.81	23.94	23.72
15	36	18		24.03	24.06	23.95
15	1	0		23.37	23.64	23.42
15	1	78		23.10	23.49	23.04
15	75	0		23.33	23.39	23.15
15	1	1	16-QAM	23.50	23.46	23.49
15	1	1	64-QAM	22.02	22.01	21.78
15	1	1	256-QAM	19.49	19.54	19.47

NR n25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	PI/2 BPSK	24.82	24.85	24.58
5	1	23		24.90	24.88	23.79
5	12	6		24.84	24.96	24.25
5	1	0		24.31	24.35	24.06
5	1	24		24.35	24.32	23.31
5	25	0		24.29	24.41	23.79
5	1	1	QPSK	24.64	24.67	24.44
5	1	23		24.72	24.76	23.75
5	12	6		24.79	24.82	24.57
5	1	0		23.78	23.76	23.72
5	1	24		23.72	23.80	22.81
5	25	0		23.81	23.82	23.27
5	1	1	16-QAM	23.85	23.93	23.67
5	1	1	64-QAM	22.21	22.30	21.98
5	1	1	256-QAM	19.95	20.04	19.91

NR n25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	PI/2 BPSK	24.93	24.61	24.56
10	1	50		24.86	24.77	23.82
10	25	12		25.05	24.96	24.60
10	1	0		24.36	23.94	24.01
10	1	51		24.39	24.30	23.27
10	50	0		24.45	24.37	23.89
10	1	1	QPSK	24.79	24.65	24.63
10	1	50		24.80	24.81	23.72
10	25	12		24.90	24.90	24.77
10	1	0		23.89	23.91	23.74
10	1	51		23.97	23.93	23.64
10	50	0		23.97	23.85	23.53
10	1	1	16-QAM	23.92	23.87	23.62
10	1	1	64-QAM	22.29	22.27	22.12
10	1	1	256-QAM	20.09	20.04	20.01

NR n25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	PI/2 BPSK	24.97	24.81	24.23
15	1	77		24.79	25.00	23.96
15	36	18		25.14	25.02	24.75
15	1	0		24.53	24.24	23.71
15	1	78		24.27	24.46	23.42
15	75	0		24.65	24.50	24.00
15	1	1	QPSK	24.94	24.79	24.17
15	1	77		25.04	25.00	23.91
15	36	18		24.90	24.87	24.91
15	1	0		23.97	23.92	23.85
15	1	78		24.07	23.99	23.34
15	75	0		24.11	23.95	23.48
15	1	1	16-QAM	24.17	24.06	23.65
15	1	1	64-QAM	22.62	22.58	22.48
15	1	1	256-QAM	20.13	20.17	20.14

NR n25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	PI/2 BPSK	**25.15**	25.10	25.02
20	1	104		24.98	24.93	24.55
20	50	25		25.13	25.08	25.12
20	1	0		24.51	24.56	24.51
20	1	105		24.48	24.49	24.01
20	100	0		24.62	24.58	24.54
20	1	1	QPSK	25.02	25.06	25.01
20	1	104		24.91	24.87	24.61
20	50	25		25.07	25.00	24.80
20	1	0		24.01	23.95	24.00
20	1	105		23.98	23.95	24.09
20	100	0		24.04	24.00	23.96
20	1	1	16-QAM	24.09	24.16	24.03
20	1	1	64-QAM	22.53	22.50	22.35
20	1	1	256-QAM	20.48	20.45	20.20

NR n66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	PI/2 BPSK	24.78	25.02	24.90
5	1	23		24.97	24.96	24.92
5	12	6		24.90	25.15	25.00
5	1	0		24.27	24.52	24.41
5	1	24		24.52	24.48	24.36
5	25	0		24.46	24.53	24.47
5	1	1	QPSK	24.63	25.06	24.78
5	1	23		25.05	24.96	24.81
5	12	6		25.03	25.00	24.92
5	1	0		23.61	24.02	23.86
5	1	24		23.99	24.01	23.84
5	25	0		23.86	23.94	23.88
5	1	1	16-QAM	23.67	24.19	23.90
5	1	1	64-QAM	22.16	22.55	22.24
5	1	1	256-QAM	20.43	20.46	20.02

NR n66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	PI/2 BPSK	24.32	25.06	24.13
10	1	50		25.15	24.99	24.92
10	25	12		25.20	25.11	25.03
10	1	0		23.74	24.52	23.49
10	1	51		24.68	24.49	24.41
10	50	0		24.52	24.55	24.47
10	1	1	QPSK	24.23	24.94	23.98
10	1	50		25.16	25.00	24.85
10	25	12		25.17	25.08	24.97
10	1	0		24.13	24.18	23.99
10	1	51		24.14	23.95	23.89
10	50	0		23.92	24.01	23.92
10	1	1	16-QAM	23.45	24.05	23.13
10	1	1	64-QAM	22.57	22.49	22.36
10	1	1	256-QAM	20.30	20.18	20.05

NR n66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	PI/2 BPSK	25.33	25.28	25.27
15	1	77		25.26	25.34	25.24
15	36	18		25.33	25.31	25.18
15	1	0		24.98	24.91	24.62
15	1	78		24.93	24.81	24.71
15	75	0		25.16	24.92	24.72
15	1	1	QPSK	25.30	25.36	25.14
15	1	77		25.31	25.14	25.24
15	36	18		25.18	25.10	24.81
15	1	0		24.45	24.10	23.96
15	1	78		24.27	24.07	24.13
15	75	0		24.47	24.15	24.15
15	1	1	16-QAM	24.27	24.43	24.22
15	1	1	64-QAM	23.01	22.92	22.67
15	1	1	256-QAM	20.67	20.75	20.33

NR n66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	PI/2 BPSK	**25.43**	25.21	25.09
20	1	104		25.28	25.08	24.92
20	50	25		25.25	25.20	25.03
20	1	0		24.79	24.67	25.02
20	1	105		24.79	24.55	24.43
20	100	0		24.76	24.56	24.49
20	1	1	QPSK	25.05	25.15	25.02
20	1	104		25.11	25.02	24.90
20	50	25		25.26	25.13	24.48
20	1	0		24.14	24.26	24.09
20	1	105		24.20	24.13	24.07
20	100	0		24.22	24.15	23.95
20	1	1	16-QAM	24.06	24.27	23.90
20	1	1	64-QAM	22.71	22.69	22.54
20	1	1	256-QAM	20.32	20.29	19.99

NR n71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	PI/2 BPSK	25.13	25.04	24.97
5	1	23		24.68	24.93	24.79
5	12	6		24.95	24.97	24.94
5	1	0		24.69	24.70	24.65
5	1	24		23.92	24.51	24.40
5	25	0		24.46	24.62	24.59
5	1	1	QPSK	25.20	25.10	24.98
5	1	23		25.09	24.95	24.78
5	12	6		25.25	25.12	24.85
5	1	0		24.41	24.30	24.16
5	1	24		24.05	24.20	23.98
5	25	0		23.93	24.17	24.07
5	1	1	16-QAM	24.31	24.24	24.23
5	1	1	64-QAM	22.72	22.57	22.60
5	1	1	256-QAM	20.71	20.35	20.30

NR n71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	PI/2 BPSK	25.13	25.01	24.85
10	1	50		24.95	24.90	24.67
10	25	12		24.86	25.10	24.98
10	1	0		24.75	24.57	24.52
10	1	51		24.57	24.61	24.27
10	50	0		24.48	24.73	24.56
10	1	1	QPSK	25.13	24.97	24.84
10	1	50		25.00	25.07	24.60
10	25	12		25.12	25.19	25.05
10	1	0		24.28	24.24	24.21
10	1	51		24.12	24.20	23.77
10	50	0		24.23	23.97	24.04
10	1	1	16-QAM	24.35	24.16	24.21
10	1	1	64-QAM	22.75	22.55	22.44
10	1	1	256-QAM	20.51	20.23	20.31

NR n71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	PI/2 BPSK	25.21	25.14	25.02
15	1	77		25.01	25.02	24.83
15	36	18		25.10	25.25	25.05
15	1	0		24.93	24.79	24.75
15	1	78		24.68	24.61	24.51
15	75	0		24.90	24.94	24.72
15	1	1	QPSK	25.26	25.13	25.02
15	1	77		25.07	25.04	24.72
15	36	18		25.14	25.15	25.01
15	1	0		24.30	24.24	24.19
15	1	78		24.18	24.15	23.88
15	75	0		24.28	24.31	24.15
15	1	1	16-QAM	24.42	24.37	24.27
15	1	1	64-QAM	23.02	22.81	22.64
15	1	1	256-QAM	20.54	20.49	20.47

NR n71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	PI/2 BPSK	**25.29**	25.17	25.18
20	1	104		24.92	24.97	24.81
20	50	25		25.11	25.23	25.10
20	1	0		24.89	24.77	24.75
20	1	105		24.73	24.55	24.41
20	100	0		24.90	24.81	24.70
20	1	1	QPSK	25.26	25.04	25.11
20	1	104		24.99	24.95	24.82
20	50	25		25.13	25.16	25.14
20	1	0		24.48	24.38	24.28
20	1	105		24.18	24.13	24.02
20	100	0		24.35	24.22	24.17
20	1	1	16-QAM	24.27	24.03	24.29
20	1	1	64-QAM	23.01	22.83	22.99
20	1	1	256-QAM	20.36	20.10	20.23

NR n41 (HPUE) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	PI/2 BPSK	26.69	26.62	26.41
20	1	49		26.67	26.56	26.43
20	25	12		26.72	26.68	26.47
20	1	0		23.22	23.27	23.15
20	1	50		23.24	23.23	23.06
20	50	0		26.33	26.30	26.13
20	1	1	QPSK	26.62	26.65	26.34
20	1	49		26.66	26.55	26.40
20	25	12		26.69	26.62	26.49
20	1	0		23.22	23.34	23.21
20	1	50		23.27	23.23	23.08
20	50	0		25.83	25.75	25.60
20	1	1	16-QAM	25.77	25.84	25.51
20	1	1	64-QAM	24.34	24.42	24.07
20	1	1	256-QAM	21.88	22.04	22.00

NR n41 (HPUE) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
40	1	1	PI/2 BPSK	26.94	26.96	26.82
40	1	104		26.91	26.92	26.66
40	50	25		26.91	26.94	26.67
40	1	0		23.44	23.63	23.42
40	1	105		23.47	23.51	23.40
40	100	0		26.64	26.72	26.43
40	1	1	QPSK	26.93	26.97	26.90
40	1	104		26.93	26.26	25.53
40	50	25		26.85	26.86	26.64
40	1	0		23.44	23.74	23.59
40	1	105		23.55	23.60	23.44
40	100	0		26.12	26.07	25.98
40	1	1	16-QAM	26.04	26.20	25.96
40	1	1	64-QAM	24.79	24.70	24.51
40	1	1	256-QAM	22.35	22.50	22.32

NR n41 (HPUE) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
50	1	1	PI/2 BPSK	26.63	26.71	26.48
50	1	131		26.36	26.61	26.47
50	64	32		26.66	26.70	26.44
50	1	0		23.17	23.31	23.15
50	1	132		23.04	23.37	23.08
50	128	0		26.24	26.31	26.03
50	1	1	QPSK	26.61	26.67	26.57
50	1	131		26.30	26.57	26.50
50	64	32		26.57	26.55	26.42
50	1	0		23.24	23.29	23.27
50	1	132		23.06	23.22	23.19
50	128	0		25.72	25.74	25.51
50	1	1	16-QAM	25.68	25.78	25.55
50	1	1	64-QAM	24.37	24.41	24.14
50	1	1	256-QAM	22.00	22.20	21.94

NR n41 (HPUE) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
60	1	1	PI/2 BPSK	26.51	26.52	26.51
60	1	160		26.28	26.57	25.70
60	81	40		26.57	26.59	26.39
60	1	0		23.11	23.20	23.19
60	1	161		22.83	23.18	23.11
60	162	0		26.21	26.27	26.05
60	1	1	QPSK	26.45	26.51	26.24
60	1	160		26.16	26.47	25.69
60	81	40		26.51	26.55	26.41
60	1	0		23.16	23.31	23.47
60	1	161		22.79	23.29	23.45
60	162	0		25.73	25.71	25.55
60	1	1	16-QAM	25.62	25.80	25.67
60	1	1	64-QAM	24.22	24.29	24.23
60	1	1	256-QAM	21.90	22.20	21.44

NR n41 (HPUE) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
80	1	1	PI/2 BPSK	26.65	26.76	26.20
80	1	215		26.10	26.47	26.40
80	108	54		26.53	26.64	26.49
80	1	0		23.19	23.43	23.34
80	1	216		22.61	23.11	23.22
80	216	0		26.16	26.32	26.20
80	1	1	QPSK	26.74	26.76	26.23
80	1	215		26.10	26.56	26.38
80	108	54		26.51	26.56	26.44
80	1	0		23.27	23.43	23.65
80	1	216		22.72	23.23	23.43
80	216	0		25.71	25.75	25.60
80	1	1	16-QAM	25.63	25.41	25.18
80	1	1	64-QAM	24.42	24.47	24.52
80	1	1	256-QAM	21.90	22.50	22.39

NR n41 (HPUE) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
90	1	1	PI/2 BPSK	26.71	26.84	26.51
90	1	243		26.22	26.57	26.53
90	120	60		26.49	26.66	26.55
90	1	0		23.18	23.51	23.43
90	1	244		22.72	23.28	23.24
90	240	0		26.15	26.29	26.20
90	1	1	QPSK	26.72	26.93	26.75
90	1	243		26.24	26.65	26.47
90	120	60		26.43	26.61	26.50
90	1	0		23.31	23.57	23.43
90	1	244		22.86	23.32	23.35
90	240	0		25.67	25.79	25.71
90	1	1	16-QAM	25.62	25.76	25.53
90	1	1	64-QAM	24.45	24.58	24.50
90	1	1	256-QAM	22.01	21.95	22.08

NR n41 (HPUE) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
100	1	1	PI/2 BPSK	26.63	**26.98**	26.70
100	1	271		26.02	26.55	26.37
100	135	67		26.50	26.65	26.62
100	1	0		23.13	23.49	23.46
100	1	272		22.64	23.30	23.13
100	270	0		26.17	26.40	26.20
100	1	1	QPSK	26.60	26.89	26.67
100	1	271		25.91	26.61	26.37
100	135	67		26.41	26.54	26.57
100	1	0		23.14	23.49	23.38
100	1	272		22.64	23.33	23.24
100	270	0		25.84	25.81	25.73
100	1	1	16-QAM	25.80	25.85	25.92
100	1	1	64-QAM	24.26	24.62	24.56
100	1	1	256-QAM	21.90	22.41	22.35

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NR n2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	QPSK	23.02	23.10	22.83
5	1	1	16-QAM	22.31	22.02	22.17
5	1	1	64-QAM	20.79	20.74	20.73

NR n2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	QPSK	23.03	23.01	22.75
10	1	1	16-QAM	22.38	22.15	22.19
10	1	1	64-QAM	20.77	20.80	20.91
10	1	1	256-QAM	17.80	17.79	17.91

NR n2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	QPSK	23.37	23.29	22.30
15	1	1	16-QAM	22.44	22.51	21.52
15	1	1	64-QAM	20.99	21.08	20.72
15	1	1	256-QAM	18.13	18.15	18.00

NR n2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	QPSK	**23.54**	23.21	23.22
20	1	1	16-QAM	22.46	22.44	22.52
20	1	1	64-QAM	20.86	21.12	21.08
20	1	1	256-QAM	18.08	18.26	17.88

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	QPSK	22.24	22.12	22.18
5	1	1	16-QAM	21.95	21.90	21.96
5	1	1	64-QAM	20.51	20.48	20.48
5	1	1	256-QAM	16.87	16.81	16.86

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	QPSK	22.02	22.05	21.94
10	1	1	16-QAM	21.82	21.80	21.73
10	1	1	64-QAM	20.46	20.37	20.32
10	1	1	256-QAM	16.75	16.66	16.71

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	QPSK	22.24	22.18	22.15
15	1	1	16-QAM	22.00	21.89	21.85
15	1	1	64-QAM	20.49	20.48	20.41
15	1	1	256-QAM	16.93	16.90	16.78

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	QPSK	**22.25**	22.18	22.19
20	1	1	16-QAM	21.92	21.97	21.91
20	1	1	64-QAM	20.50	20.51	20.43
20	1	1	256-QAM	16.84	16.85	16.81

NR n12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	QPSK	22.85	22.72	22.38
5	1	1	16-QAM	22.38	22.35	22.13
5	1	1	64-QAM	20.97	20.92	20.68
5	1	1	256-QAM	17.25	17.05	16.91

NR n12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	QPSK	21.97	21.95	21.92
10	1	1	16-QAM	21.62	21.66	21.65
10	1	1	64-QAM	20.23	20.28	20.25
10	1	1	256-QAM	16.28	16.26	16.21

NR n12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	QPSK	**23.02**	23.01	22.97
15	1	1	16-QAM	22.59	22.53	22.32
15	1	1	64-QAM	21.11	21.05	21.00
15	1	1	256-QAM	17.42	17.43	17.31

NR n25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	QPSK	23.20	23.23	23.16
5	1	1	16-QAM	22.41	22.38	22.52
5	1	1	64-QAM	21.05	21.06	21.07
5	1	1	256-QAM	18.05	18.06	17.90

NR n25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	QPSK	23.28	23.05	23.07
10	1	1	16-QAM	22.47	22.33	22.41
10	1	1	64-QAM	21.11	21.09	21.06
10	1	1	256-QAM	18.10	18.08	18.05

NR n25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	QPSK	23.55	23.36	22.54
15	1	1	16-QAM	22.78	22.65	21.89
15	1	1	64-QAM	21.26	21.24	20.90
15	1	1	256-QAM	18.25	18.27	18.13

NR n25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	QPSK	**23.58**	23.36	23.35
20	1	1	16-QAM	22.70	22.64	22.73
20	1	1	64-QAM	21.20	21.26	21.40
20	1	1	256-QAM	18.26	18.31	18.24

NR n66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	QPSK	23.16	23.48	23.32
5	1	1	16-QAM	22.54	22.80	22.48
5	1	1	64-QAM	21.04	21.39	21.12
5	1	1	256-QAM	18.16	18.45	18.29

NR n66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	QPSK	23.12	23.29	22.73
10	1	1	16-QAM	22.89	22.98	22.23
10	1	1	64-QAM	21.73	21.62	21.24
10	1	1	256-QAM	18.56	18.47	18.38

NR n66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	QPSK	23.41	23.74	23.52
15	1	1	16-QAM	22.73	23.01	22.88
15	1	1	64-QAM	21.60	21.56	21.42
15	1	1	256-QAM	18.60	18.58	18.43

NR n66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	QPSK	22.98	**23.83**	23.68
20	1	1	16-QAM	22.34	23.16	22.90
20	1	1	64-QAM	21.32	21.61	21.43
20	1	1	256-QAM	18.60	18.72	18.51

NR n71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	QPSK	23.50	23.57	23.51
5	1	1	16-QAM	23.31	23.30	23.20
5	1	1	64-QAM	21.92	21.90	21.74
5	1	1	256-QAM	18.46	18.19	18.12

NR n71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	QPSK	23.61	23.38	23.38
10	1	1	16-QAM	23.27	23.14	23.15
10	1	1	64-QAM	21.87	21.68	21.71
10	1	1	256-QAM	18.30	18.03	18.05

NR n71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	QPSK	23.62	23.58	23.52
15	1	1	16-QAM	23.42	23.28	23.22
15	1	1	64-QAM	22.07	21.89	21.82
15	1	1	256-QAM	18.39	18.22	18.21

NR n71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	QPSK	**23.64**	23.56	23.51
20	1	1	16-QAM	23.35	23.07	23.21
20	1	1	64-QAM	21.88	21.74	21.81
20	1	1	256-QAM	18.14	18.02	18.21

NR n41 (HPUE) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	QPSK	25.17	25.22	25.04
20	1	1	16-QAM	25.08	25.16	24.96
20	1	1	64-QAM	23.50	23.56	23.41
20	1	1	256-QAM	20.05	20.25	20.02

NR n41 (HPUE) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
40	1	1	QPSK	25.44	25.41	25.42
40	1	1	16-QAM	25.26	25.39	25.39
40	1	1	64-QAM	23.85	24.05	23.79
40	1	1	256-QAM	20.48	20.63	20.48

NR n41 (HPUE) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
50	1	1	QPSK	25.23	25.27	25.05
50	1	1	16-QAM	25.10	25.15	25.01
50	1	1	64-QAM	23.30	23.63	23.52
50	1	1	256-QAM	20.21	20.30	20.12

NR n41 (HPUE) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
60	1	1	QPSK	25.06	25.10	25.15
60	1	1	16-QAM	24.97	24.83	24.89
60	1	1	64-QAM	23.44	23.64	23.54
60	1	1	256-QAM	20.11	20.34	20.09

NR n41 (HPUE) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
80	1	1	QPSK	25.11	25.26	25.12
80	1	1	16-QAM	25.06	25.25	24.78
80	1	1	64-QAM	23.47	23.70	23.64
80	1	1	256-QAM	19.97	20.42	20.44

NR n41 (HPUE) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
90	1	1	QPSK	25.07	25.27	25.18
90	1	1	16-QAM	25.04	24.95	24.93
90	1	1	64-QAM	23.44	23.66	23.73
90	1	1	256-QAM	20.04	20.07	20.33

NR n41 (HPUE) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
100	1	1	QPSK	25.15	**25.45**	25.29
100	1	1	16-QAM	24.90	25.11	25.12
100	1	1	64-QAM	23.44	24.09	24.09
100	1	1	256-QAM	20.15	20.21	20.34

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NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	PI/2 BPSK	24.97	24.63	24.58
20	1	49		24.95	24.69	24.71
20	25	12		24.98	24.82	24.47
20	1	0		21.30	21.67	21.47
20	1	50		21.53	21.46	21.31
20	50	0		24.64	24.62	24.45
20	1	1	QPSK	24.79	24.90	24.68
20	1	49		24.94	24.80	24.72
20	25	12		25.04	24.70	24.85
20	1	0		21.27	21.40	21.25
20	1	50		21.48	21.49	21.34
20	50	0		24.10	23.75	23.93
20	1	1	16-QAM	24.08	23.98	23.73
20	1	1	64-QAM	22.43	22.60	22.16
20	1	1	256-QAM	20.15	20.13	20.23

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
40	1	1	PI/2 BPSK	25.16	25.11	25.01
40	1	104		25.09	25.16	24.81
40	50	25		25.06	25.07	25.03
40	1	0		21.83	21.90	21.55
40	1	105		21.75	21.72	21.62
40	100	0		24.84	24.79	24.58
40	1	1	QPSK	25.02	25.14	25.13
40	1	104		25.01	24.55	24.55
40	50	25		25.12	25.16	25.01
40	1	0		21.45	21.97	21.71
40	1	105		21.67	21.67	21.49
40	100	0		24.48	24.23	24.19
40	1	1	16-QAM	24.35	24.21	24.34
40	1	1	64-QAM	23.11	22.93	22.64
40	1	1	256-QAM	20.74	20.87	20.32

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
50	1	1	PI/2 BPSK	24.90	24.75	24.50
50	1	131		24.74	24.78	24.71
50	64	32		24.99	24.98	24.50
50	1	0		21.24	21.68	21.50
50	1	132		21.11	21.76	21.33
50	128	0		24.35	24.61	24.34
50	1	1	QPSK	24.98	24.68	24.65
50	1	131		24.66	24.86	24.86
50	64	32		24.79	24.80	24.53
50	1	0		21.62	21.58	21.52
50	1	132		21.45	21.45	21.19
50	128	0		24.06	23.99	23.57
50	1	1	16-QAM	23.92	24.18	23.68
50	1	1	64-QAM	22.38	22.44	22.26
50	1	1	256-QAM	20.34	20.31	20.18

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
60	1	1	PI/2 BPSK	24.91	24.81	24.89
60	1	160		24.40	24.74	23.75
60	81	40		24.79	24.78	24.52
60	1	0		21.38	21.38	21.59
60	1	161		20.94	21.52	21.44
60	162	0		24.26	24.50	24.13
60	1	1	QPSK	24.79	24.71	24.53
60	1	160		24.43	24.87	23.71
60	81	40		24.77	24.58	24.54
60	1	0		21.25	21.38	21.48
60	1	161		20.87	21.48	21.50
60	162	0		24.01	23.98	23.64
60	1	1	16-QAM	23.95	23.88	23.67
60	1	1	64-QAM	22.51	22.31	22.37
60	1	1	256-QAM	20.24	20.41	19.59

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
80	1	1	PI/2 BPSK	24.86	24.86	24.39
80	1	215		24.26	24.53	24.54
80	108	54		24.77	24.96	24.64
80	1	0		21.45	21.82	21.45
80	1	216		20.72	21.16	21.39
80	216	0		24.50	24.54	24.45
80	1	1	QPSK	25.08	25.09	24.63
80	1	215		24.33	24.61	24.55
80	108	54		24.88	24.96	24.77
80	1	0		21.38	21.60	22.69
80	1	216		20.94	21.29	21.71
80	216	0		24.03	23.94	23.97
80	1	1	16-QAM	23.80	23.49	23.48
80	1	1	64-QAM	22.46	22.72	22.52
80	1	1	256-QAM	19.98	20.51	20.63

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
90	1	1	PI/2 BPSK	24.90	25.02	24.85
90	1	243		24.32	24.85	24.69
90	120	60		24.69	24.69	24.73
90	1	0		21.31	21.91	21.79
90	1	244		20.98	21.62	21.45
90	240	0		24.38	24.31	24.23
90	1	1	QPSK	24.73	25.12	24.89
90	1	243		24.42	24.67	24.86
90	120	60		24.72	24.97	24.60
90	1	0		21.52	21.91	21.77
90	1	244		21.16	21.58	21.42
90	240	0		23.74	23.89	23.75
90	1	1	16-QAM	23.79	24.00	23.53
90	1	1	64-QAM	22.73	22.87	22.71
90	1	1	256-QAM	20.16	20.04	20.20

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
100	1	1	PI/2 BPSK	24.82	**25.17**	24.98
100	1	271		24.39	24.81	24.62
100	135	67		24.86	24.66	24.85
100	1	0		21.18	21.65	21.59
100	1	272		20.88	21.40	21.51
100	270	0		24.31	24.66	24.41
100	1	1	QPSK	24.96	25.15	25.07
100	1	271		24.25	24.69	24.60
100	135	67		24.56	24.54	24.59
100	1	0		21.48	21.75	21.54
100	1	272		20.87	21.59	21.64
100	270	0		24.00	23.83	23.83
100	1	1	16-QAM	24.01	24.13	23.97
100	1	1	64-QAM	22.28	22.99	22.70
100	1	1	256-QAM	20.20	20.70	20.71

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NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	QPSK	23.50	23.41	23.24
20	1	1	16-QAM	23.31	23.41	23.25
20	1	1	64-QAM	21.63	21.66	21.44
20	1	1	256-QAM	18.06	18.48	18.26

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
40	1	1	QPSK	23.72	23.71	23.47
40	1	1	16-QAM	23.42	23.48	23.51
40	1	1	64-QAM	22.25	22.12	22.19
40	1	1	256-QAM	18.72	18.80	18.67

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
50	1	1	QPSK	23.42	23.58	23.35
50	1	1	16-QAM	23.31	23.45	23.17
50	1	1	64-QAM	21.32	21.91	21.82
50	1	1	256-QAM	18.55	18.63	18.32

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
60	1	1	QPSK	23.43	23.35	23.31
60	1	1	16-QAM	23.14	22.88	22.99
60	1	1	64-QAM	21.56	21.66	21.83
60	1	1	256-QAM	18.40	18.47	18.17

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
80	1	1	QPSK	23.37	23.65	23.39
80	1	1	16-QAM	23.25	23.57	22.93
80	1	1	64-QAM	21.84	21.98	22.00
80	1	1	256-QAM	18.00	18.80	18.76

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
90	1	1	QPSK	23.21	23.48	23.40
90	1	1	16-QAM	23.42	23.25	23.18
90	1	1	64-QAM	21.66	21.67	21.94
90	1	1	256-QAM	18.18	18.14	18.57

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
100	1	1	QPSK	23.28	**23.78**	23.44
100	1	1	16-QAM	23.05	23.27	23.39
100	1	1	64-QAM	21.52	22.40	22.27
100	1	1	256-QAM	18.23	18.60	18.66

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NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	PI/2 BPSK	24.87	24.62	24.55
20	1	49		24.86	24.89	24.68
20	25	12		25.16	24.75	24.34
20	1	0		21.20	21.56	21.48
20	1	50		21.68	21.51	21.25
20	50	0		24.49	24.75	24.63
20	1	1	QPSK	24.84	24.90	24.83
20	1	49		24.90	24.71	24.54
20	25	12		25.07	24.89	24.81
20	1	0		21.42	21.45	21.42
20	1	50		21.29	21.64	21.29
20	50	0		23.90	23.65	23.98
20	1	1	16-QAM	24.25	24.14	23.82
20	1	1	64-QAM	22.47	22.49	22.03
20	1	1	256-QAM	20.27	20.29	20.21

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
40	1	1	PI/2 BPSK	25.11	24.95	24.99
40	1	104		25.05	24.96	24.63
40	50	25		25.01	24.94	24.88
40	1	0		21.69	22.10	21.73
40	1	105		21.86	21.78	21.76
40	100	0		24.92	24.60	24.54
40	1	1	QPSK	25.00	25.04	25.09
40	1	104		25.04	24.58	24.63
40	50	25		24.93	25.03	25.00
40	1	0		21.41	22.13	21.60
40	1	105		21.63	21.72	21.46
40	100	0		24.59	24.13	24.24
40	1	1	16-QAM	24.41	24.23	24.34
40	1	1	64-QAM	23.30	22.99	22.51
40	1	1	256-QAM	20.83	20.75	20.12

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
50	1	1	PI/2 BPSK	25.10	24.89	24.50
50	1	131		24.93	24.78	24.83
50	64	32		24.84	24.90	24.35
50	1	0		21.06	21.81	21.56
50	1	132		21.15	21.63	21.52
50	128	0		24.42	24.50	24.36
50	1	1	QPSK	24.87	24.51	24.58
50	1	131		24.62	24.81	24.67
50	64	32		24.85	24.83	24.64
50	1	0		21.46	21.71	21.37
50	1	132		21.27	21.63	21.09
50	128	0		23.89	23.91	23.54
50	1	1	16-QAM	23.80	24.35	23.49
50	1	1	64-QAM	22.54	22.48	22.07
50	1	1	256-QAM	20.51	20.50	20.05

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
60	1	1	PI/2 BPSK	24.88	24.99	24.85
60	1	160		24.57	24.83	23.66
60	81	40		24.92	24.65	24.34
60	1	0		21.37	21.58	21.68
60	1	161		20.82	21.40	21.60
60	162	0		24.20	24.68	24.00
60	1	1	QPSK	24.72	24.90	24.39
60	1	160		24.55	24.82	23.74
60	81	40		24.84	24.69	24.65
60	1	0		21.39	21.35	21.63
60	1	161		20.88	21.59	21.49
60	162	0		23.84	23.84	23.73
60	1	1	16-QAM	23.98	24.01	23.87
60	1	1	64-QAM	22.69	22.51	22.43
60	1	1	256-QAM	20.29	20.31	19.42

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
80	1	1	PI/2 BPSK	24.76	24.80	24.53
80	1	215		24.10	24.43	24.51
80	108	54		24.83	25.13	24.60
80	1	0		21.37	21.74	21.54
80	1	216		20.75	21.05	21.46
80	216	0		24.53	24.52	24.29
80	1	1	QPSK	25.11	24.93	24.62
80	1	215		24.34	24.72	24.59
80	108	54		24.77	24.89	24.90
80	1	0		21.51	21.80	22.62
80	1	216		20.84	21.20	21.54
80	216	0		24.05	23.79	23.83
80	1	1	16-QAM	23.75	23.31	23.66
80	1	1	64-QAM	22.45	22.89	22.46
80	1	1	256-QAM	20.02	20.46	20.64

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
90	1	1	PI/2 BPSK	24.81	24.85	24.87
90	1	243		24.18	25.05	24.85
90	120	60		24.79	24.49	24.59
90	1	0		21.33	21.92	21.59
90	1	244		21.13	21.61	21.58
90	240	0		24.57	24.30	24.21
90	1	1	QPSK	24.86	25.14	24.78
90	1	243		24.39	24.66	24.89
90	120	60		24.57	24.93	24.74
90	1	0		21.34	21.81	21.93
90	1	244		21.29	21.51	21.48
90	240	0		23.77	23.87	23.63
90	1	1	16-QAM	23.83	24.08	23.44
90	1	1	64-QAM	22.93	22.93	22.55
90	1	1	256-QAM	20.36	20.02	20.30

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
100	1	1	PI/2 BPSK	24.99	**25.19**	24.87
100	1	271		24.24	24.96	24.60
100	135	67		24.73	24.83	24.88
100	1	0		21.14	21.78	21.68
100	1	272		20.73	21.26	21.57
100	270	0		24.48	24.58	24.51
100	1	1	QPSK	24.93	24.99	25.03
100	1	271		24.32	24.73	24.64
100	135	67		24.63	24.48	24.71
100	1	0		21.68	21.77	21.58
100	1	272		21.00	21.78	21.80
100	270	0		24.05	24.01	24.03
100	1	1	16-QAM	24.02	24.07	23.95
100	1	1	64-QAM	22.32	22.87	22.57
100	1	1	256-QAM	20.25	20.88	20.88

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NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	QPSK	23.35	23.60	23.24
20	1	1	16-QAM	23.38	23.43	23.17
20	1	1	64-QAM	21.53	21.58	21.36
20	1	1	256-QAM	18.07	18.35	18.31

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
40	1	1	QPSK	23.87	23.71	23.56
40	1	1	16-QAM	23.39	23.65	23.71
40	1	1	64-QAM	22.09	22.31	22.26
40	1	1	256-QAM	18.61	18.75	18.82

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
50	1	1	QPSK	23.35	23.56	23.51
50	1	1	16-QAM	23.13	23.42	23.30
50	1	1	64-QAM	21.15	21.84	21.76
50	1	1	256-QAM	18.38	18.77	18.37

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
60	1	1	QPSK	23.31	23.33	23.42
60	1	1	16-QAM	23.12	22.71	23.15
60	1	1	64-QAM	21.76	21.68	21.81
60	1	1	256-QAM	18.55	18.45	18.33

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
80	1	1	QPSK	23.43	23.52	23.22
80	1	1	16-QAM	23.36	23.48	23.02
80	1	1	64-QAM	21.72	21.94	21.81
80	1	1	256-QAM	18.10	18.60	18.80

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
90	1	1	QPSK	23.27	23.39	23.27
90	1	1	16-QAM	23.34	23.28	23.06
90	1	1	64-QAM	21.50	21.76	22.03
90	1	1	256-QAM	18.03	18.09	18.51

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
100	1	1	QPSK	23.45	23.58	23.35
100	1	1	16-QAM	23.08	23.19	23.55
100	1	1	64-QAM	21.33	22.56	22.12
100	1	1	256-QAM	18.19	18.55	18.67

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NR n2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	PI/2 BPSK	24.54	24.48	24.01
5	1	23		24.79	24.42	24.68
5	12	6		24.45	24.60	24.26
5	1	0		23.99	24.07	23.70
5	1	24		23.96	23.87	23.33
5	25	0		23.99	24.01	23.62
5	1	1	QPSK	24.25	24.17	24.21
5	1	23		24.33	24.60	24.32
5	12	6		24.22	24.50	24.21
5	1	0		23.39	23.36	23.30
5	1	24		23.35	23.62	23.01
5	25	0		23.40	23.61	23.06
5	1	1	16-QAM	23.27	23.66	23.33
5	1	1	64-QAM	21.81	22.05	21.56
5	1	1	256-QAM	19.53	19.42	19.30

NR n2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	PI/2 BPSK	24.50	24.48	24.08
10	1	50		24.46	24.40	24.27
10	25	12		24.66	24.83	24.07
10	1	0		23.65	23.62	23.52
10	1	51		24.03	23.95	23.98
10	50	0		23.97	23.80	23.78
10	1	1	QPSK	24.41	24.24	24.33
10	1	50		24.46	24.51	23.89
10	25	12		24.66	24.59	24.32
10	1	0		23.57	23.48	23.36
10	1	51		23.53	23.69	23.21
10	50	0		23.47	23.29	23.23
10	1	1	16-QAM	23.33	23.37	23.42
10	1	1	64-QAM	22.09	21.97	21.51
10	1	1	256-QAM	19.71	19.82	19.93

NR n2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	PI/2 BPSK	24.57	24.56	23.96
15	1	77		24.26	24.91	24.51
15	36	18		24.88	24.40	24.35
15	1	0		24.43	23.88	23.36
15	1	78		23.72	23.94	23.24
15	75	0		24.11	24.31	23.63
15	1	1	QPSK	24.47	24.61	23.99
15	1	77		24.33	24.31	24.02
15	36	18		24.62	24.58	24.48
15	1	0		23.54	23.79	23.25
15	1	78		23.81	23.81	22.76
15	75	0		23.49	23.55	23.06
15	1	1	16-QAM	23.58	23.60	23.29
15	1	1	64-QAM	22.50	21.98	22.29
15	1	1	256-QAM	19.65	19.49	19.74

NR n2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	PI/2 BPSK	**25.09**	24.83	24.42
20	1	104		24.60	24.65	24.25
20	50	25		24.73	24.70	24.62
20	1	0		24.47	24.21	24.17
20	1	105		24.14	24.13	23.35
20	100	0		24.36	24.34	24.06
20	1	1	QPSK	24.40	24.49	24.69
20	1	104		24.41	24.42	24.07
20	50	25		24.81	24.66	24.19
20	1	0		23.59	23.41	23.66
20	1	105		23.58	23.66	23.51
20	100	0		23.56	23.61	23.51
20	1	1	16-QAM	23.48	23.68	23.85
20	1	1	64-QAM	22.22	21.96	22.14
20	1	1	256-QAM	20.11	19.93	19.50

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	PI/2 BPSK	23.69	23.66	23.62
5	1	23		23.59	23.62	23.04
5	12	6		23.71	23.43	23.27
5	1	0		23.27	23.19	23.45
5	1	24		23.06	23.19	22.91
5	25	0		23.25	23.23	23.28
5	1	1	QPSK	23.64	23.60	23.78
5	1	23		23.54	23.54	23.36
5	12	6		23.50	23.47	23.57
5	1	0		22.90	22.79	22.78
5	1	24		22.68	22.40	22.19
5	25	0		22.57	22.65	22.50
5	1	1	16-QAM	23.04	22.58	22.69
5	1	1	64-QAM	21.35	21.16	21.15
5	1	1	256-QAM	18.76	18.78	18.76

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	PI/2 BPSK	23.56	23.72	23.64
10	1	50		23.77	23.64	22.86
10	25	12		23.67	23.72	23.64
10	1	0		22.99	23.06	22.88
10	1	51		23.21	23.07	22.62
10	50	0		23.26	23.30	23.03
10	1	1	QPSK	23.46	23.81	23.36
10	1	50		23.64	23.64	23.37
10	25	12		23.64	23.52	23.74
10	1	0		22.73	22.75	22.82
10	1	51		22.49	22.80	22.49
10	50	0		22.59	22.48	22.77
10	1	1	16-QAM	22.86	22.60	22.77
10	1	1	64-QAM	21.05	21.26	21.12
10	1	1	256-QAM	18.91	18.98	18.77

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	PI/2 BPSK	23.80	23.95	23.87
15	1	77		23.71	23.68	23.21
15	36	18		23.86	23.97	23.76
15	1	0		23.30	23.04	23.27
15	1	78		23.25	22.96	22.91
15	75	0		23.45	23.30	23.37
15	1	1	QPSK	23.68	23.57	23.73
15	1	77		23.39	23.54	23.24
15	36	18		23.73	23.66	23.54
15	1	0		22.76	22.58	22.84
15	1	78		22.55	22.54	22.65
15	75	0		22.76	22.82	22.75
15	1	1	16-QAM	22.79	22.81	22.92
15	1	1	64-QAM	21.14	21.20	21.29
15	1	1	256-QAM	18.94	18.90	18.79

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	PI/2 BPSK	23.71	**23.98**	23.81
20	1	104		23.54	23.60	23.53
20	50	25		23.86	23.69	23.74
20	1	0		23.12	23.19	23.35
20	1	105		23.22	23.17	22.95
20	100	0		23.25	23.60	23.39
20	1	1	QPSK	23.54	23.58	23.52
20	1	104		23.43	23.67	23.23
20	50	25		23.59	23.91	23.86
20	1	0		22.84	22.80	22.64
20	1	105		22.70	22.64	22.47
20	100	0		22.80	22.69	22.89
20	1	1	16-QAM	22.68	22.86	22.83
20	1	1	64-QAM	21.10	21.32	21.22
20	1	1	256-QAM	18.66	18.90	18.73

NR n12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	PI/2 BPSK	23.73	23.46	23.47
5	1	23		23.68	23.35	23.36
5	12	6		23.68	23.71	23.31
5	1	0		23.24	23.16	23.12
5	1	24		23.00	23.15	22.81
5	25	0		23.16	23.24	22.93
5	1	1	QPSK	23.83	23.78	23.37
5	1	23		23.39	23.53	23.02
5	12	6		23.65	23.44	23.23
5	1	0		22.86	23.19	22.89
5	1	24		22.51	22.91	22.64
5	25	0		23.03	23.02	22.89
5	1	1	16-QAM	23.08	23.10	22.83
5	1	1	64-QAM	21.56	21.39	21.29
5	1	1	256-QAM	18.95	18.88	18.71

NR n12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	PI/2 BPSK	23.83	23.74	23.65
10	1	50		23.57	23.63	23.21
10	25	12		23.68	23.64	23.40
10	1	0		23.37	23.36	23.13
10	1	51		23.18	23.28	22.81
10	50	0		23.21	23.24	23.24
10	1	1	QPSK	23.38	23.47	23.34
10	1	50		23.43	23.05	23.29
10	25	12		23.00	23.13	23.42
10	1	0		22.82	22.33	22.40
10	1	51		22.87	22.49	22.41
10	50	0		23.04	22.14	22.71
10	1	1	16-QAM	23.06	22.95	23.07
10	1	1	64-QAM	21.48	21.52	21.51
10	1	1	256-QAM	19.20	18.93	19.13

NR n12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	PI/2 BPSK	**24.07**	23.97	23.79
15	1	77		23.77	23.60	23.65
15	36	18		23.84	23.76	23.67
15	1	0		23.60	23.33	23.36
15	1	78		23.38	22.97	23.10
15	75	0		23.33	23.43	23.48
15	1	1	QPSK	24.00	23.91	23.69
15	1	77		23.74	23.78	23.72
15	36	18		23.91	23.78	23.69
15	1	0		23.14	23.51	23.35
15	1	78		22.83	23.26	22.71
15	75	0		23.01	23.13	22.79
15	1	1	16-QAM	23.25	23.35	23.39
15	1	1	64-QAM	21.70	21.94	21.61
15	1	1	256-QAM	19.47	19.33	19.08

NR n25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	PI/2 BPSK	24.51	24.75	24.31
5	1	23		24.90	24.83	24.66
5	12	6		24.61	24.60	24.07
5	1	0		23.91	24.29	23.99
5	1	24		24.34	24.18	24.15
5	25	0		23.97	24.04	23.65
5	1	1	QPSK	24.57	24.62	24.23
5	1	23		24.45	24.64	24.45
5	12	6		24.74	24.75	24.35
5	1	0		23.72	23.55	23.61
5	1	24		23.46	23.48	22.81
5	25	0		23.63	23.60	23.08
5	1	1	16-QAM	23.61	23.80	23.56
5	1	1	64-QAM	21.92	22.02	21.62
5	1	1	256-QAM	19.72	19.98	19.91

NR n25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	PI/2 BPSK	24.90	24.44	24.19
10	1	50		24.54	24.70	24.47
10	25	12		24.94	24.78	24.57
10	1	0		24.29	23.68	23.92
10	1	51		24.39	23.94	23.87
10	50	0		24.43	24.36	23.82
10	1	1	QPSK	24.75	24.38	24.60
10	1	50		24.76	24.61	24.53
10	25	12		24.50	24.57	24.49
10	1	0		23.74	23.65	23.66
10	1	51		23.61	23.64	23.56
10	50	0		23.72	23.65	23.22
10	1	1	16-QAM	23.77	23.59	23.23
10	1	1	64-QAM	22.01	22.03	21.81
10	1	1	256-QAM	19.99	19.80	19.87

NR n25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	PI/2 BPSK	24.60	24.53	24.16
15	1	77		24.70	24.70	23.72
15	36	18		25.04	25.00	24.38
15	1	0		24.40	24.24	23.53
15	1	78		23.87	24.35	23.26
15	75	0		24.51	24.14	23.81
15	1	1	QPSK	24.72	24.79	23.80
15	1	77		24.90	24.70	23.89
15	36	18		24.68	24.59	24.83
15	1	0		23.93	23.74	23.84
15	1	78		23.70	23.65	23.04
15	75	0		23.77	23.71	23.11
15	1	1	16-QAM	24.09	23.88	23.50
15	1	1	64-QAM	22.52	22.43	22.14
15	1	1	256-QAM	20.12	20.02	20.13

NR n25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	PI/2 BPSK	**25.13**	24.93	24.97
20	1	104		24.84	24.57	24.15
20	50	25		25.06	25.05	24.92
20	1	0		24.37	24.16	24.31
20	1	105		24.19	24.19	23.78
20	100	0		24.54	24.23	24.19
20	1	1	QPSK	24.96	24.67	24.68
20	1	104		24.80	24.51	24.37
20	50	25		25.05	24.96	24.52
20	1	0		23.95	23.92	23.94
20	1	105		23.65	23.68	23.69
20	100	0		23.92	23.66	23.87
20	1	1	16-QAM	23.94	23.92	23.63
20	1	1	64-QAM	22.41	22.29	22.13
20	1	1	256-QAM	20.35	20.29	20.05

NR n66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	PI/2 BPSK	24.40	24.97	24.79
5	1	23		24.78	24.72	24.60
5	12	6		24.58	25.09	24.71
5	1	0		23.99	24.22	24.16
5	1	24		24.48	24.41	24.06
5	25	0		24.19	24.22	24.19
5	1	1	QPSK	24.33	24.76	24.78
5	1	23		24.70	24.68	24.78
5	12	6		24.86	24.70	24.78
5	1	0		23.56	23.76	23.59
5	1	24		23.78	23.92	23.60
5	25	0		23.82	23.55	23.56
5	1	1	16-QAM	23.31	23.91	23.67
5	1	1	64-QAM	22.07	22.37	21.87
5	1	1	256-QAM	20.43	20.18	19.91

NR n66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	PI/2 BPSK	23.94	24.99	24.03
10	1	50		24.93	24.70	24.74
10	25	12		25.12	24.86	24.94
10	1	0		23.53	24.52	23.22
10	1	51		24.43	24.21	24.38
10	50	0		24.34	24.21	24.12
10	1	1	QPSK	24.02	24.67	23.74
10	1	50		25.16	24.68	24.74
10	25	12		25.11	24.96	24.68
10	1	0		24.01	23.90	23.81
10	1	51		24.10	23.68	23.57
10	50	0		23.77	23.87	23.62
10	1	1	16-QAM	23.05	23.68	22.96
10	1	1	64-QAM	22.25	22.35	22.17
10	1	1	256-QAM	19.97	19.93	19.94

NR n66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	PI/2 BPSK	25.00	25.20	25.04
15	1	77		25.01	24.97	25.05
15	36	18		25.00	25.17	24.81
15	1	0		24.85	24.70	24.56
15	1	78		24.69	24.79	24.58
15	75	0		25.02	24.65	24.34
15	1	1	QPSK	24.92	25.29	24.94
15	1	77		24.99	24.89	24.95
15	36	18		24.96	24.71	24.81
15	1	0		24.17	23.73	23.63
15	1	78		24.17	23.85	24.10
15	75	0		24.37	24.01	24.09
15	1	1	16-QAM	23.90	24.25	24.19
15	1	1	64-QAM	22.77	22.68	22.49
15	1	1	256-QAM	20.51	20.48	20.09

NR n66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	PI/2 BPSK	**25.38**	25.05	24.82
20	1	104		25.05	24.98	24.64
20	50	25		25.14	24.82	24.88
20	1	0		24.72	24.47	24.78
20	1	105		24.56	24.38	24.15
20	100	0		24.66	24.24	24.41
20	1	1	QPSK	24.68	24.79	24.82
20	1	104		24.80	24.72	24.66
20	50	25		25.14	25.01	24.40
20	1	0		23.96	23.90	24.01
20	1	105		24.11	24.04	23.67
20	100	0		24.02	23.82	23.86
20	1	1	16-QAM	24.03	24.23	23.71
20	1	1	64-QAM	22.65	22.34	22.22
20	1	1	256-QAM	20.16	20.23	19.61

NR n71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	PI/2 BPSK	24.80	24.71	24.83
5	1	23		24.58	24.83	24.53
5	12	6		24.78	24.90	24.90
5	1	0		24.36	24.70	24.26
5	1	24		23.68	24.45	24.04
5	25	0		24.28	24.52	24.59
5	1	1	QPSK	25.01	25.00	24.96
5	1	23		24.72	24.73	24.52
5	12	6		24.92	24.90	24.81
5	1	0		24.10	24.16	24.06
5	1	24		23.95	23.83	23.68
5	25	0		23.60	23.85	23.72
5	1	1	16-QAM	24.07	24.20	24.22
5	1	1	64-QAM	22.71	22.33	22.60
5	1	1	256-QAM	20.47	19.98	20.30

NR n71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	PI/2 BPSK	25.07	24.81	24.58
10	1	50		24.78	24.61	24.48
10	25	12		24.66	25.07	24.67
10	1	0		24.49	24.33	24.15
10	1	51		24.35	24.59	24.15
10	50	0		24.36	24.53	24.26
10	1	1	QPSK	24.83	24.86	24.71
10	1	50		24.60	25.05	24.59
10	25	12		24.95	24.80	24.98
10	1	0		23.97	24.06	23.92
10	1	51		23.77	23.95	23.49
10	50	0		23.91	23.79	23.74
10	1	1	16-QAM	24.26	23.99	24.06
10	1	1	64-QAM	22.41	22.23	22.38
10	1	1	256-QAM	20.20	20.10	20.06

NR n71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	PI/2 BPSK	25.21	25.00	24.92
15	1	77		24.87	24.89	24.66
15	36	18		24.73	25.13	24.67
15	1	0		24.69	24.66	24.55
15	1	78		24.39	24.52	24.40
15	75	0		24.65	24.60	24.51
15	1	1	QPSK	24.92	24.91	24.99
15	1	77		24.87	24.78	24.66
15	36	18		24.99	25.06	24.93
15	1	0		24.10	24.19	23.94
15	1	78		24.07	23.75	23.77
15	75	0		23.91	24.27	23.89
15	1	1	16-QAM	24.40	24.02	23.97
15	1	1	64-QAM	22.81	22.47	22.46
15	1	1	256-QAM	20.17	20.38	20.11

NR n71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	PI/2 BPSK	**25.22**	24.83	24.78
20	1	104		24.70	24.93	24.68
20	50	25		24.86	25.21	24.97
20	1	0		24.53	24.67	24.74
20	1	105		24.52	24.30	24.24
20	100	0		24.85	24.78	24.35
20	1	1	QPSK	25.10	25.03	24.77
20	1	104		24.92	24.81	24.69
20	50	25		25.06	25.03	24.87
20	1	0		24.45	24.25	24.04
20	1	105		24.03	23.79	23.87
20	100	0		24.14	24.12	24.14
20	1	1	16-QAM	24.16	23.73	24.06
20	1	1	64-QAM	22.86	22.79	22.81
20	1	1	256-QAM	20.19	19.88	19.94

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	PI/2 BPSK	24.76	24.58	24.40
20	1	49		24.90	24.53	24.45
20	25	12		24.87	24.80	24.36
20	1	0		21.27	21.54	21.33
20	1	50		21.37	21.27	21.14
20	50	0		24.56	24.36	24.34
20	1	1	QPSK	24.71	24.60	24.48
20	1	49		24.93	24.79	24.67
20	25	12		25.01	24.63	24.76
20	1	0		21.02	21.29	21.22
20	1	50		21.29	21.30	21.12
20	50	0		24.01	23.49	23.76
20	1	1	16-QAM	23.91	23.71	23.67
20	1	1	64-QAM	22.34	22.34	22.02
20	1	1	256-QAM	20.10	20.13	20.22

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
40	1	1	PI/2 BPSK	25.13	24.99	24.98
40	1	104		25.07	24.94	24.54
40	50	25		25.05	24.91	24.90
40	1	0		21.62	21.69	21.51
40	1	105		21.65	21.50	21.61
40	100	0		24.79	24.59	24.45
40	1	1	QPSK	24.94	25.03	25.12
40	1	104		24.90	24.41	24.32
40	50	25		25.09	25.12	24.85
40	1	0		21.45	21.84	21.46
40	1	105		21.40	21.48	21.38
40	100	0		24.35	24.10	24.04
40	1	1	16-QAM	24.10	24.15	24.34
40	1	1	64-QAM	22.98	22.90	22.57
40	1	1	256-QAM	20.49	20.86	20.11

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
50	1	1	PI/2 BPSK	24.71	24.54	24.36
50	1	131		24.52	24.67	24.64
50	64	32		24.76	24.71	24.29
50	1	0		20.98	21.53	21.41
50	1	132		21.08	21.55	21.23
50	128	0		24.13	24.31	24.04
50	1	1	QPSK	24.88	24.68	24.54
50	1	131		24.54	24.75	24.66
50	64	32		24.51	24.65	24.43
50	1	0		21.50	21.29	21.25
50	1	132		21.45	21.27	20.94
50	128	0		23.91	23.90	23.47
50	1	1	16-QAM	23.66	23.98	23.67
50	1	1	64-QAM	22.10	22.17	22.02
50	1	1	256-QAM	20.27	20.15	20.17

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
60	1	1	PI/2 BPSK	24.66	24.58	24.59
60	1	160		24.16	24.73	23.51
60	81	40		24.70	24.48	24.35
60	1	0		21.18	21.33	21.42
60	1	161		20.70	21.43	21.17
60	162	0		24.25	24.25	23.95
60	1	1	QPSK	24.64	24.54	24.38
60	1	160		24.16	24.68	23.96
60	81	40		24.51	24.34	24.30
60	1	0		21.02	21.14	21.47
60	1	161		20.64	21.38	21.36
60	162	0		23.78	23.80	23.62
60	1	1	16-QAM	23.94	23.87	23.66
60	1	1	64-QAM	22.33	22.11	22.26
60	1	1	256-QAM	20.12	20.21	19.35

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
80	1	1	PI/2 BPSK	24.61	24.85	24.09
80	1	215		24.03	24.44	24.31
80	108	54		24.73	24.71	24.63
80	1	0		21.28	21.70	21.42
80	1	216		20.57	21.05	21.21
80	216	0		24.25	24.26	24.22
80	1	1	QPSK	25.04	24.84	24.53
80	1	215		24.31	24.51	24.54
80	108	54		24.75	24.84	24.61
80	1	0		21.16	21.59	21.44
80	1	216		20.65	21.04	21.51
80	216	0		23.85	23.66	23.97
80	1	1	16-QAM	23.60	23.32	23.27
80	1	1	64-QAM	22.21	22.49	22.23
80	1	1	256-QAM	19.85	20.46	20.51

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
90	1	1	PI/2 BPSK	24.76	24.78	24.77
90	1	243		24.31	24.77	24.51
90	120	60		24.62	24.55	24.48
90	1	0		21.06	21.79	21.64
90	1	244		20.76	21.46	21.37
90	240	0		24.17	24.18	24.00
90	1	1	QPSK	24.64	24.86	24.69
90	1	243		24.42	24.48	24.72
90	120	60		24.70	24.70	24.33
90	1	0		21.29	21.87	21.59
90	1	244		21.15	21.39	21.20
90	240	0		23.73	23.59	23.59
90	1	1	16-QAM	23.71	23.83	23.49
90	1	1	64-QAM	22.60	22.80	22.60
90	1	1	256-QAM	20.11	20.01	20.19

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
100	1	1	PI/2 BPSK	24.78	24.95	24.71
100	1	271		24.24	24.69	24.37
100	135	67		24.60	24.45	24.72
100	1	0		21.04	21.39	21.54
100	1	272		20.61	21.18	21.46
100	270	0		24.29	24.46	24.37
100	1	1	QPSK	24.93	**25.14**	25.05
100	1	271		24.13	24.64	24.45
100	135	67		24.36	24.27	24.47
100	1	0		21.47	21.75	21.45
100	1	272		20.83	21.53	21.55
100	270	0		23.99	23.73	23.70
100	1	1	16-QAM	23.87	23.96	23.69
100	1	1	64-QAM	22.16	22.92	22.68
100	1	1	256-QAM	19.92	20.68	20.67

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NR n2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	QPSK	22.66	22.98	22.70
5	1	1	16-QAM	22.20	21.92	21.93
5	1	1	64-QAM	20.67	20.43	20.64
5	1	1	256-QAM	17.58	17.49	17.49

NR n2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	QPSK	22.85	22.85	22.72
10	1	1	16-QAM	22.22	21.95	22.05
10	1	1	64-QAM	20.44	20.64	20.65
10	1	1	256-QAM	17.56	17.39	17.64

NR n2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	QPSK	23.28	22.94	22.53
15	1	1	16-QAM	22.23	22.14	21.87
15	1	1	64-QAM	20.65	21.00	20.50
15	1	1	256-QAM	18.09	17.87	17.65

NR n2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	QPSK	**23.33**	23.17	23.21
20	1	1	16-QAM	22.07	22.33	22.20
20	1	1	64-QAM	20.51	20.84	20.70
20	1	1	256-QAM	17.99	18.23	17.81

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	QPSK	21.84	22.12	22.08
5	1	1	16-QAM	21.78	21.84	21.78
5	1	1	64-QAM	20.22	20.10	20.20
5	1	1	256-QAM	16.60	16.59	16.56

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	QPSK	21.76	21.81	21.62
10	1	1	16-QAM	21.68	21.67	21.46
10	1	1	64-QAM	20.23	20.21	20.24
10	1	1	256-QAM	16.68	16.61	16.56

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	QPSK	21.92	22.17	22.15
15	1	1	16-QAM	21.98	21.68	21.69
15	1	1	64-QAM	20.34	20.14	20.39
15	1	1	256-QAM	16.66	16.86	16.78

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	QPSK	**22.21**	22.01	22.07
20	1	1	16-QAM	21.64	21.93	21.56
20	1	1	64-QAM	20.11	20.33	20.15
20	1	1	256-QAM	16.66	16.65	16.74

NR n12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	QPSK	22.62	22.72	22.23
5	1	1	16-QAM	22.36	21.96	21.75
5	1	1	64-QAM	20.73	20.73	20.42
5	1	1	256-QAM	17.24	17.05	16.85

NR n12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	QPSK	21.80	21.64	21.55
10	1	1	16-QAM	21.34	21.66	21.46
10	1	1	64-QAM	20.19	20.25	20.12
10	1	1	256-QAM	16.22	16.48	16.31

NR n12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	QPSK	22.64	**22.93**	22.83
15	1	1	16-QAM	22.42	22.44	22.08
15	1	1	64-QAM	21.10	20.69	20.61
15	1	1	256-QAM	17.41	17.17	17.24

NR n25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	QPSK	23.19	23.05	22.95
5	1	1	16-QAM	22.11	22.36	22.44
5	1	1	64-QAM	20.72	21.00	20.73
5	1	1	256-QAM	17.93	17.70	17.81

NR n25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	QPSK	22.95	22.93	22.76
10	1	1	16-QAM	22.27	22.33	22.28
10	1	1	64-QAM	20.93	20.87	20.86
10	1	1	256-QAM	17.86	17.95	17.90

NR n25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	QPSK	23.15	23.17	22.29
15	1	1	16-QAM	22.54	22.33	21.91
15	1	1	64-QAM	20.93	21.21	20.81
15	1	1	256-QAM	17.85	18.16	18.05

NR n25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	QPSK	**23.36**	22.97	23.04
20	1	1	16-QAM	22.37	22.54	22.69
20	1	1	64-QAM	20.80	21.04	21.40
20	1	1	256-QAM	18.12	18.09	18.03

NR n66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	QPSK	22.84	23.11	22.98
5	1	1	16-QAM	22.39	22.64	22.47
5	1	1	64-QAM	20.95	21.22	21.12
5	1	1	256-QAM	18.03	18.38	18.24

NR n66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	QPSK	22.94	22.92	22.50
10	1	1	16-QAM	22.83	22.85	22.04
10	1	1	64-QAM	21.37	21.24	21.23
10	1	1	256-QAM	18.38	18.31	18.12

NR n66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	QPSK	23.09	23.49	23.44
15	1	1	16-QAM	22.55	22.97	22.75
15	1	1	64-QAM	21.56	21.49	21.11
15	1	1	256-QAM	18.59	18.22	18.23

NR n66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	QPSK	22.58	**23.82**	23.58
20	1	1	16-QAM	21.98	23.13	22.84
20	1	1	64-QAM	21.22	21.57	21.43
20	1	1	256-QAM	18.55	18.60	18.38

NR n71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	QPSK	23.23	23.21	23.23
5	1	1	16-QAM	23.21	23.00	22.99
5	1	1	64-QAM	21.76	21.72	21.71
5	1	1	256-QAM	18.31	17.83	17.84

NR n71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	QPSK	23.46	23.13	22.98
10	1	1	16-QAM	23.04	22.78	23.14
10	1	1	64-QAM	21.82	21.67	21.60
10	1	1	256-QAM	18.18	17.90	17.79

NR n71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	QPSK	23.33	23.30	23.48
15	1	1	16-QAM	23.17	23.07	22.93
15	1	1	64-QAM	21.69	21.88	21.47
15	1	1	256-QAM	18.03	17.91	18.16

NR n71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	QPSK	**23.52**	23.42	23.33
20	1	1	16-QAM	23.14	22.88	23.19
20	1	1	64-QAM	21.56	21.66	21.53
20	1	1	256-QAM	17.92	17.74	18.02

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	QPSK	22.33	22.50	22.40
20	1	1	16-QAM	22.32	22.41	22.31
20	1	1	64-QAM	20.86	20.90	20.53
20	1	1	256-QAM	17.40	17.44	17.32

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
40	1	1	QPSK	22.56	22.54	22.42
40	1	1	16-QAM	22.50	22.51	22.42
40	1	1	64-QAM	21.07	21.38	21.18
40	1	1	256-QAM	17.86	17.79	17.64

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
50	1	1	QPSK	22.54	22.60	22.34
50	1	1	16-QAM	22.12	22.25	22.26
50	1	1	64-QAM	20.67	20.63	20.53
50	1	1	256-QAM	17.35	17.52	17.38

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
60	1	1	QPSK	22.35	22.23	22.39
60	1	1	16-QAM	22.12	22.00	21.90
60	1	1	64-QAM	20.75	20.65	20.92
60	1	1	256-QAM	17.21	17.48	17.26

NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
80	1	1	QPSK	22.42	22.50	22.44
80	1	1	16-QAM	22.26	22.61	22.17
80	1	1	64-QAM	20.51	21.10	20.70
80	1	1	256-QAM	17.33	17.57	17.78

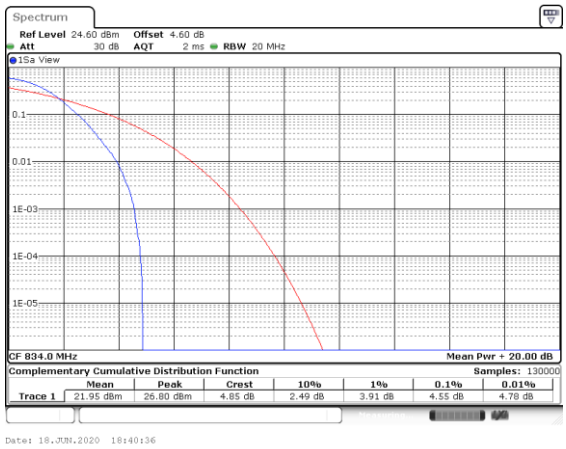
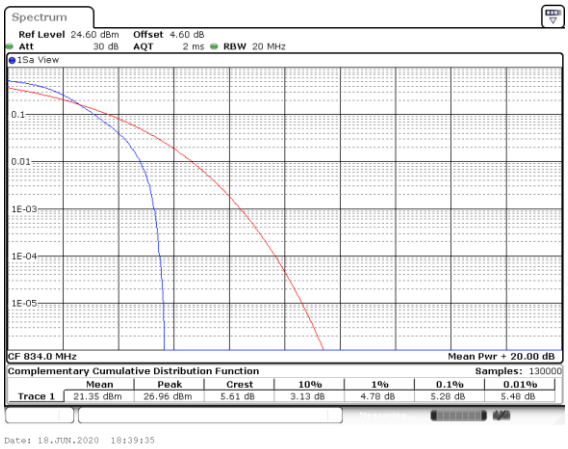
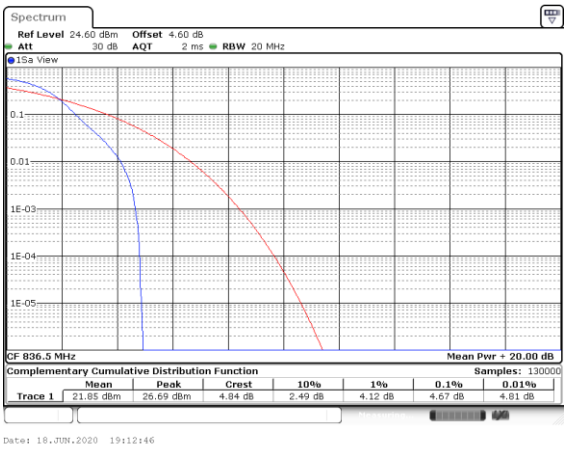
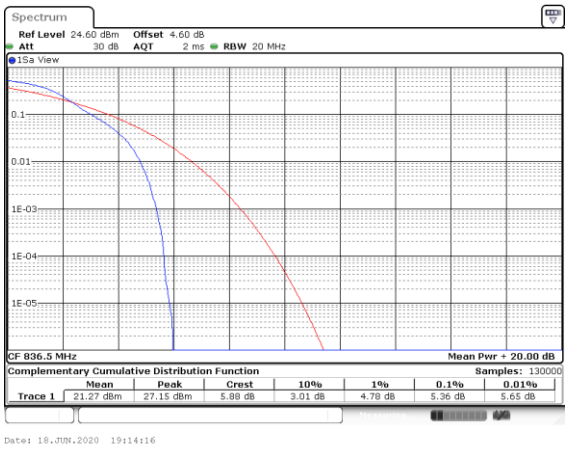
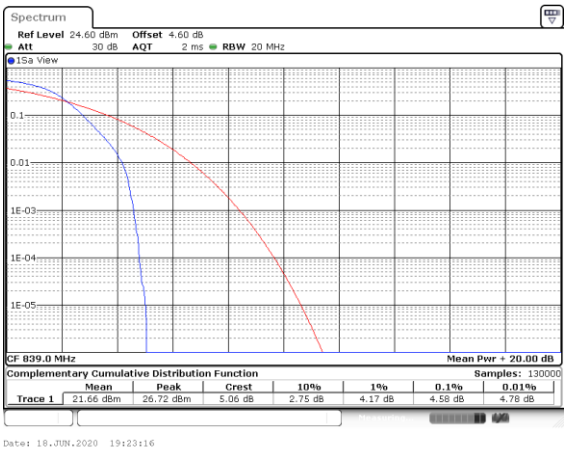
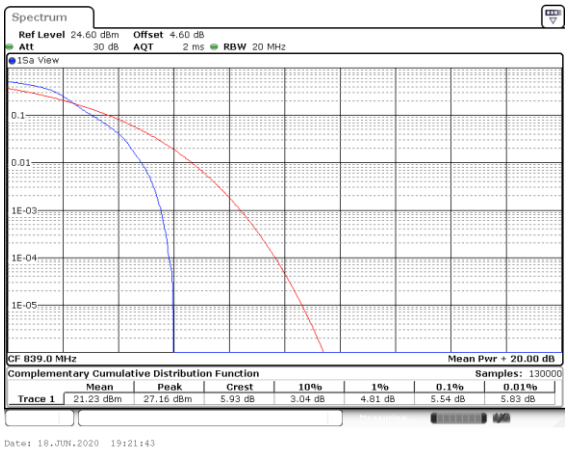
NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
90	1	1	QPSK	22.26	22.48	22.58
90	1	1	16-QAM	22.14	22.08	22.01
90	1	1	64-QAM	20.83	20.84	20.80
90	1	1	256-QAM	17.27	17.27	17.39

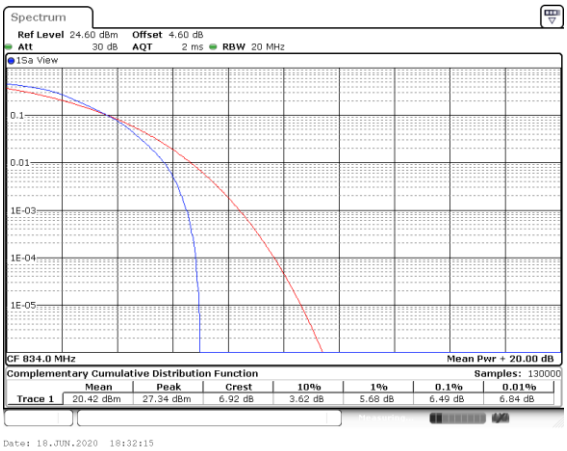
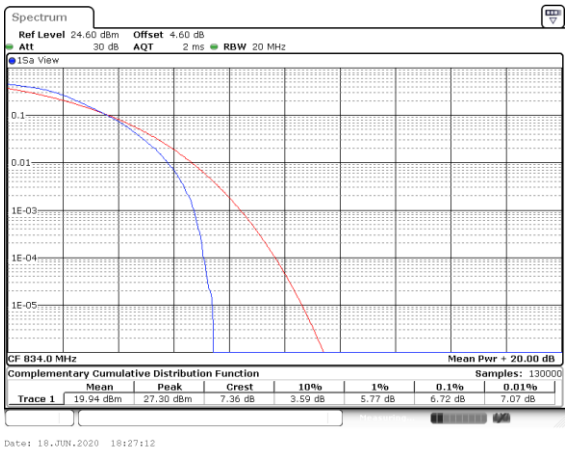
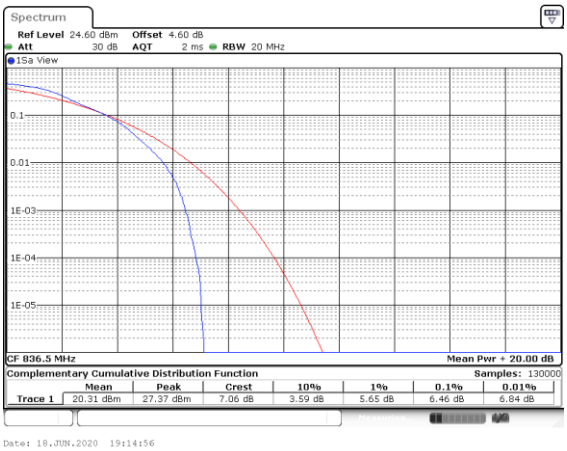
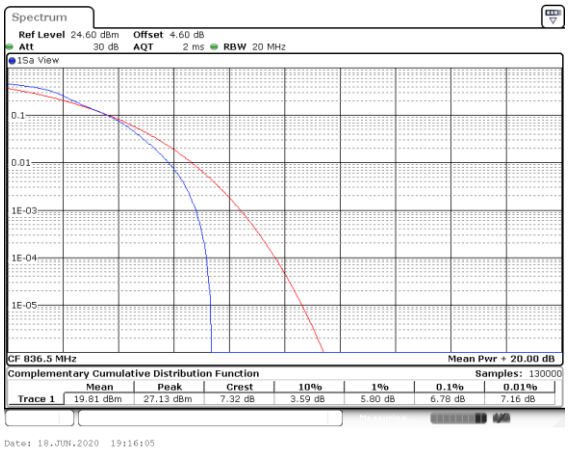
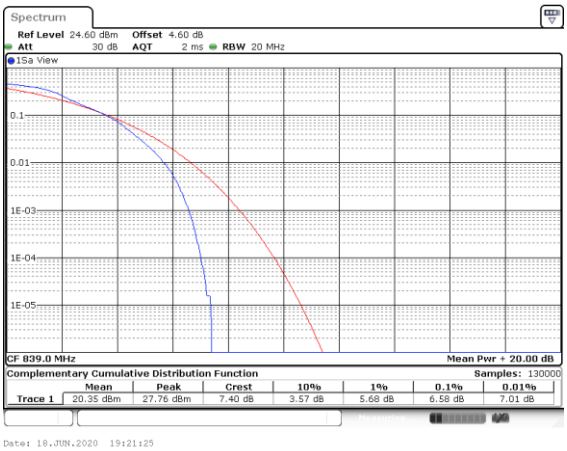
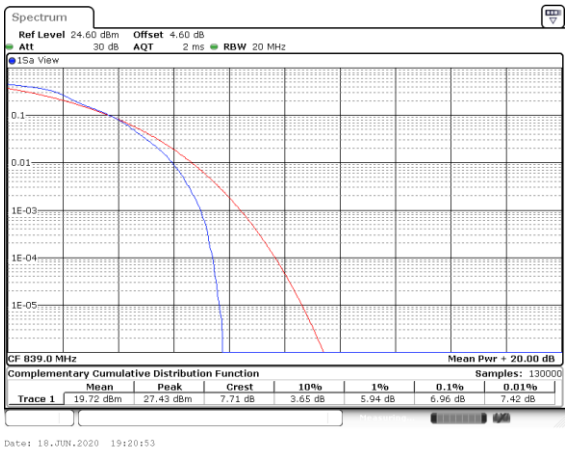
NR n41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
100	1	1	QPSK	22.33	**22.63**	22.58
100	1	1	16-QAM	22.29	22.39	22.18
100	1	1	64-QAM	20.84	21.48	21.37
100	1	1	256-QAM	17.22	17.53	17.74

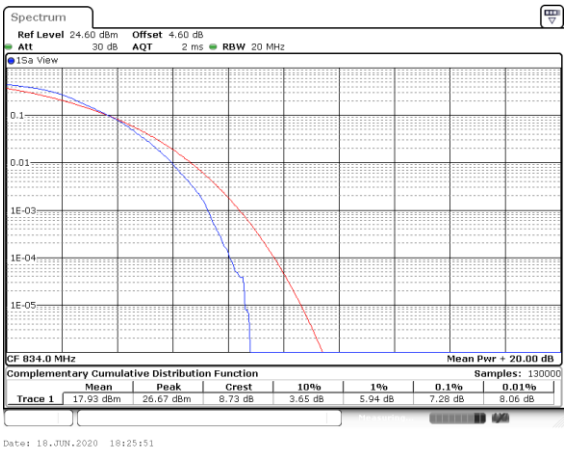
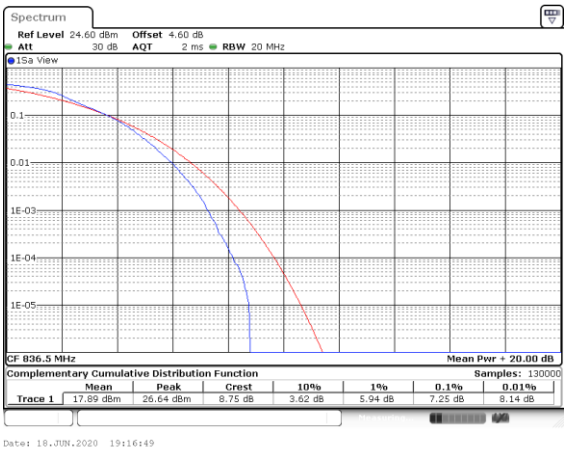
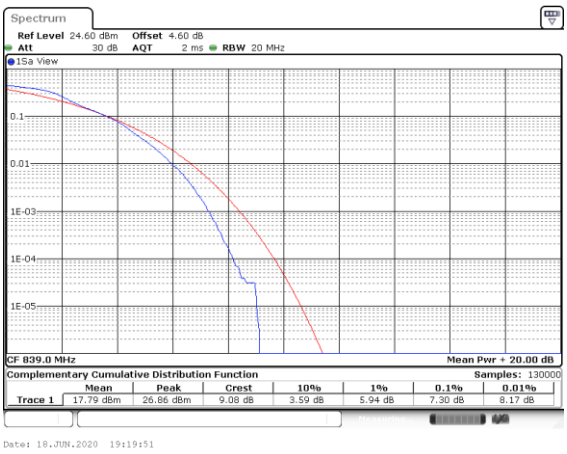
FR1 n5

Peak-to-Average Ratio

Mode	FR1 n5 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Lowest CH	4.55	5.28	6.49	6.72	PASS
Middle CH	4.67	5.36	6.46	6.78	
Highest CH	4.58	5.54	6.58	6.96	
Mode	FR1 n5 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Lowest CH	7.28				PASS
Middle CH	7.25				
Highest CH	7.30				

FR1 n5 / 20MHz / DFT-S OFDM	
PI/2 BPSK	**QPSK**
Lowest Channel / Full RB	**Lowest Channel / Full RB**
	
Middle Channel / Full RB	**Middle Channel / Full RB**
	
Highest Channel / Full RB	**Highest Channel / Full RB**
	

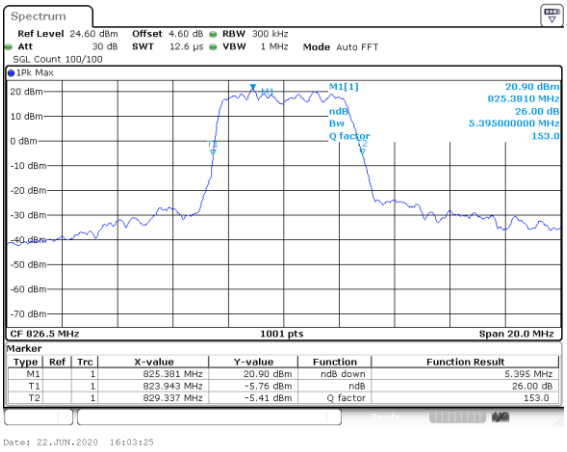
FR1 n5 / 20MHz / DFT-S OFDM	
16QAM	**64QAM**
Lowest Channel / Full RB	**Lowest Channel / Full RB**
	
Middle Channel / Full RB	**Middle Channel / Full RB**
	
Highest Channel / Full RB	**Highest Channel / Full RB**
	

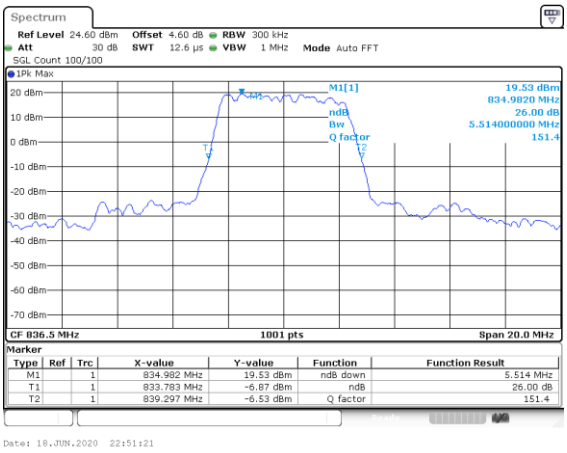
FR1 n5 / 20MHz / DFT-S OFDM	
256QAM	
Lowest Channel / Full RB	
	
Middle Channel / Full RB	
	
Highest Channel / Full RB	
	

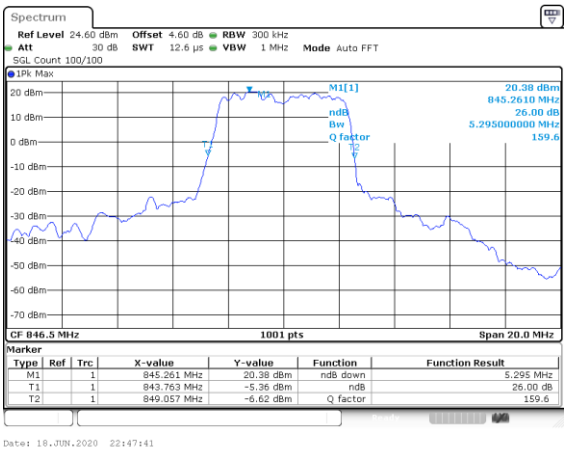
26dB Bandwidth

Mode	FR1 n5 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Lowest CH	5.40		9.91		14.33		18.82	
Middle CH	5.51		9.83		14.39		18.98	
Highest CH	5.30		9.77		14.33		18.86	

Mode	FR1 n5 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	5.46	5.53	10.23	10.15	15.05	15.14	19.86	19.70
Middle CH	5.40	5.30	10.11	10.29	15.11	14.87	19.74	20.18
Highest CH	5.22	5.42	10.17	10.09	15.11	14.96	19.90	19.86
Mode	FR1 n5 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	5.32	5.16	10.03	10.49	15.05	14.99	19.90	19.70
Middle CH	5.24	5.26	10.01	10.19	14.96	15.14	19.94	19.86
Highest CH	5.38	5.36	10.13	10.05	14.96	15.14	19.78	19.90

FR1 n5 / 5MHz / DFT-S OFDM	
PI/2 BPSK	
Lowest Channel	
	

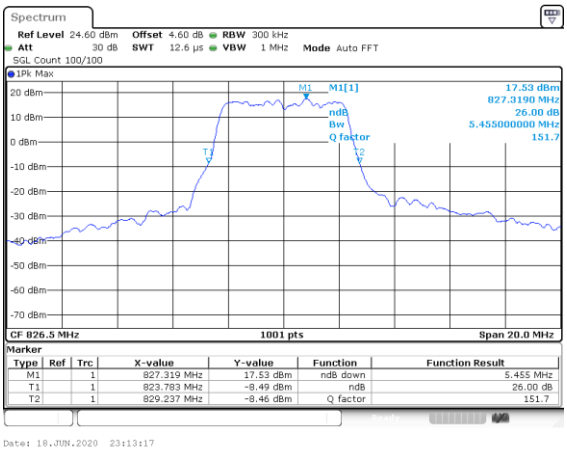
Middle Channel	
	

Highest Channel	
	

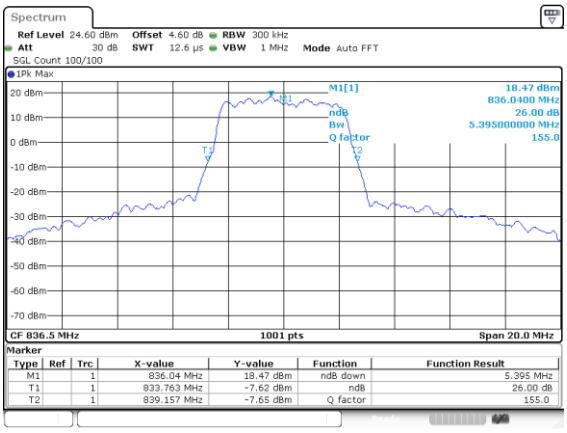
FR1 n5 / 5MHz / CP OFDM

QPSK

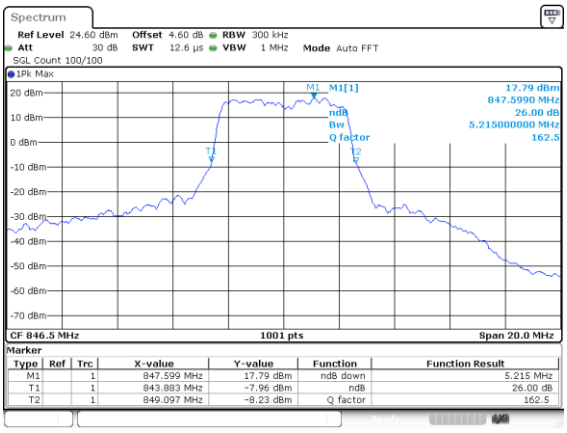
Lowest Channel



Middle Channel

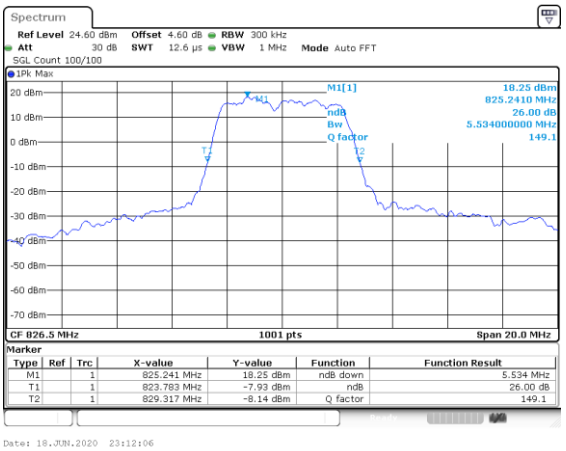


Highest Channel

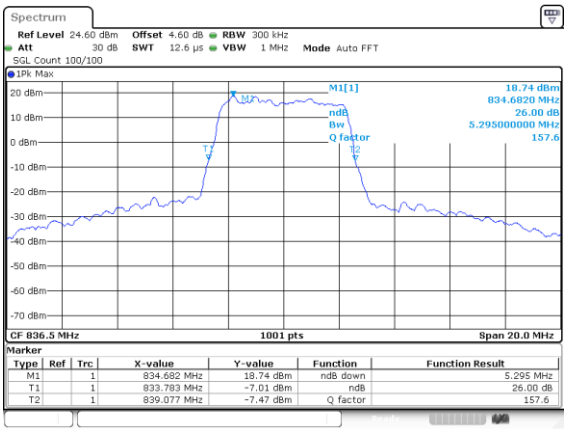


16QAM

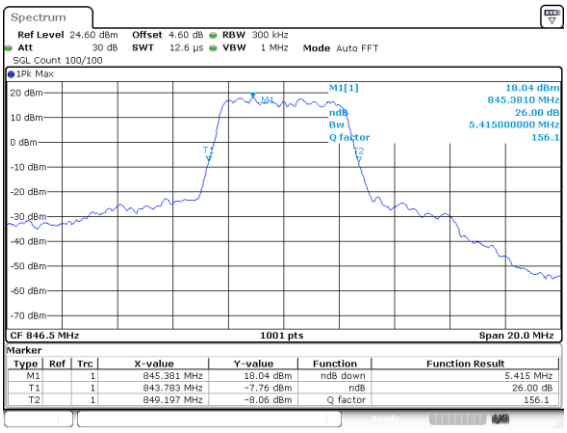
Lowest Channel



Middle Channel



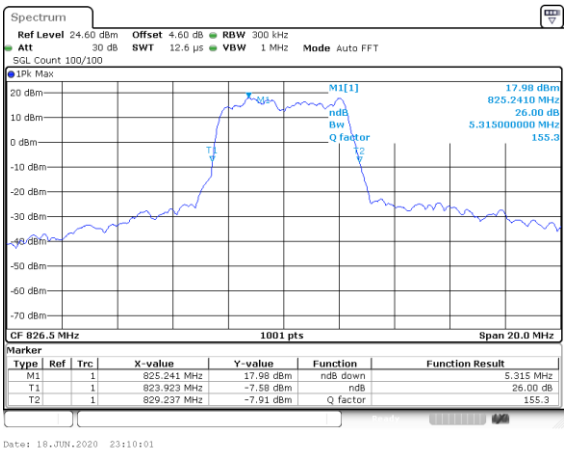
Highest Channel



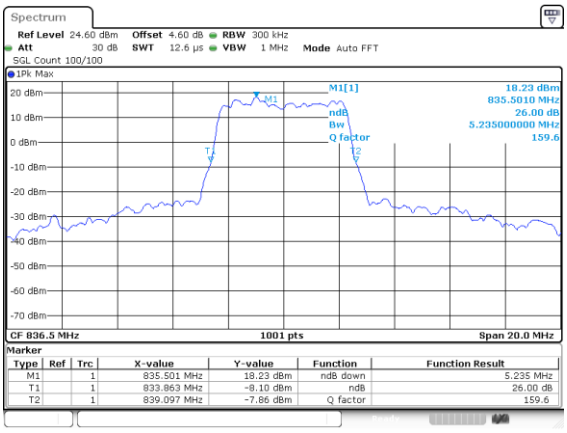
FR1 n5 / 5MHz / CP OFDM

64QAM

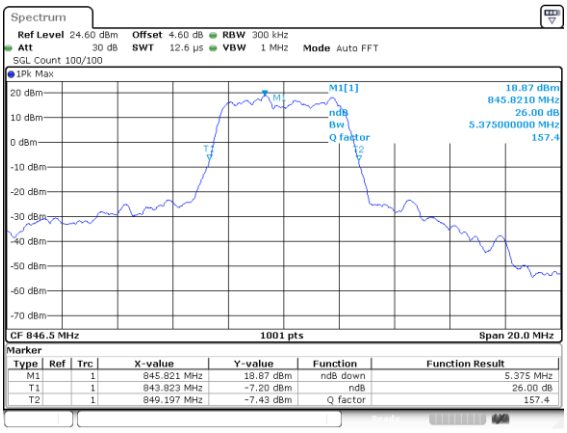
Lowest Channel



Middle Channel

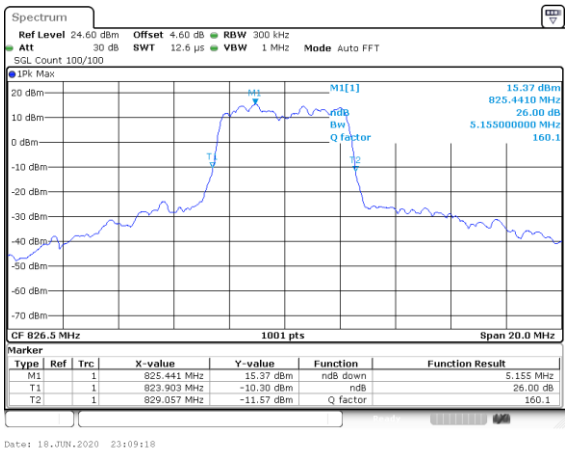


Highest Channel

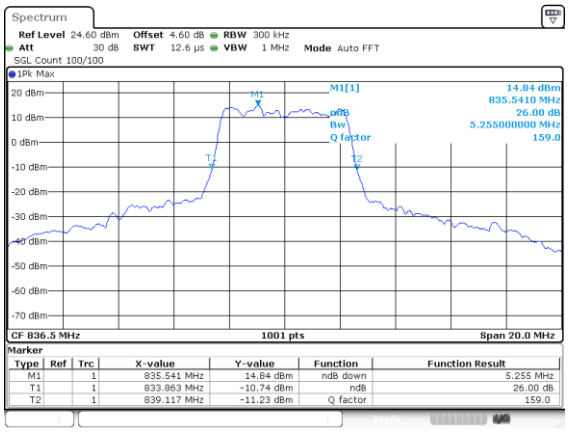


256QAM

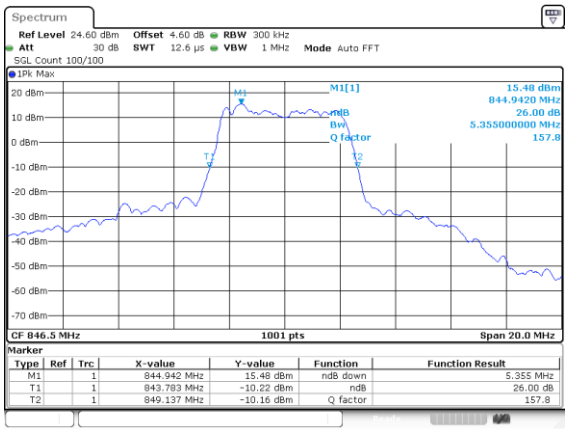
Lowest Channel

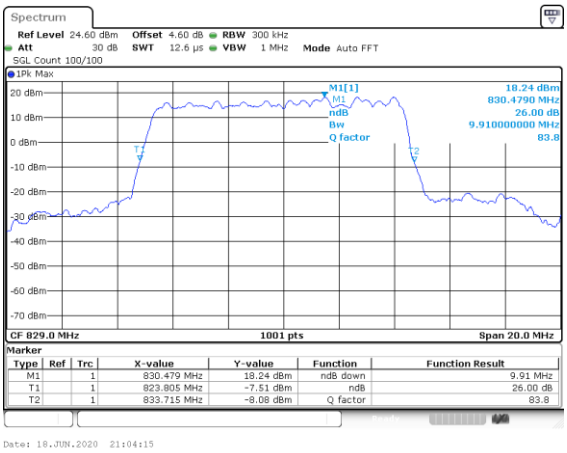
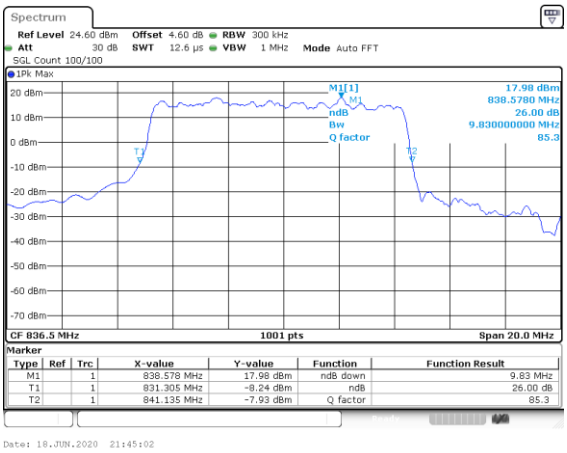
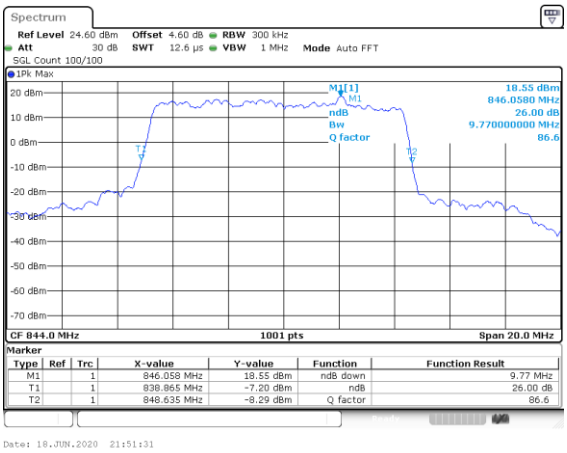


Middle Channel



Highest Channel

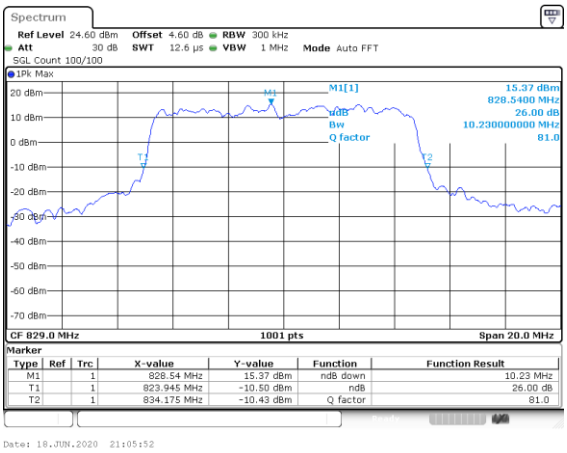


FR1 n5 / 10MHz / DFT-S OFDM	
PI/2 BPSK	
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

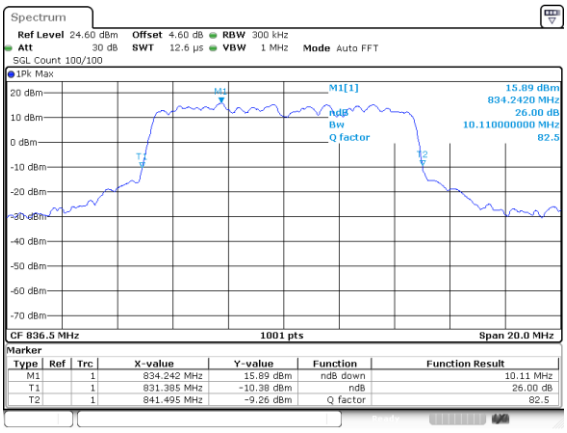
FR1 n5 / 10MHz / CP OFDM

QPSK

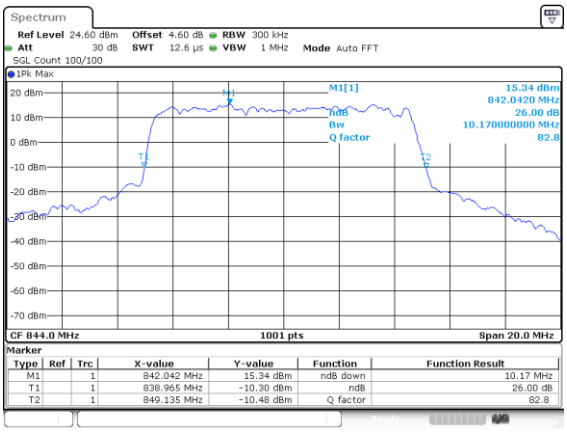
Lowest Channel



Middle Channel

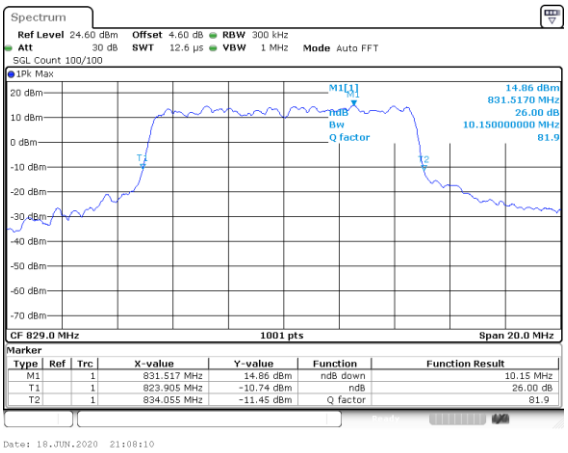


Highest Channel

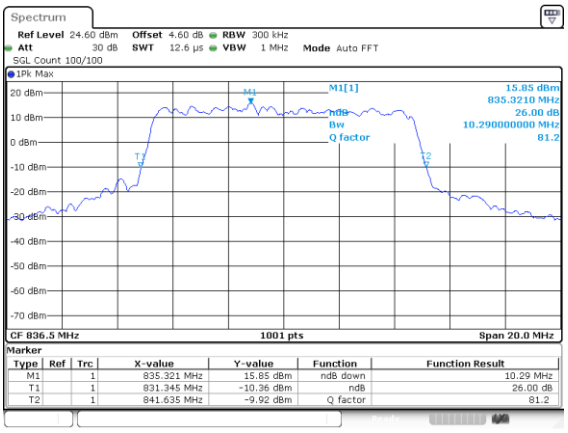


16QAM

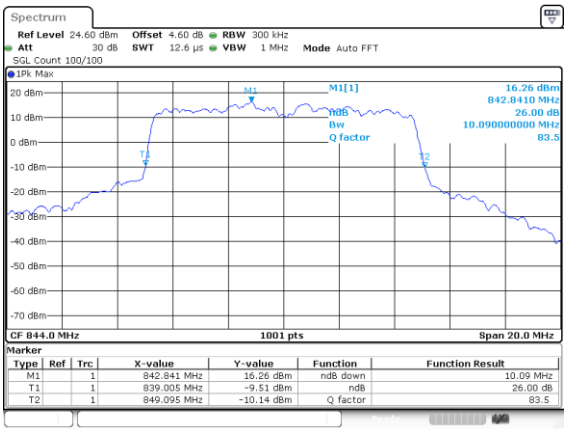
Lowest Channel



Middle Channel



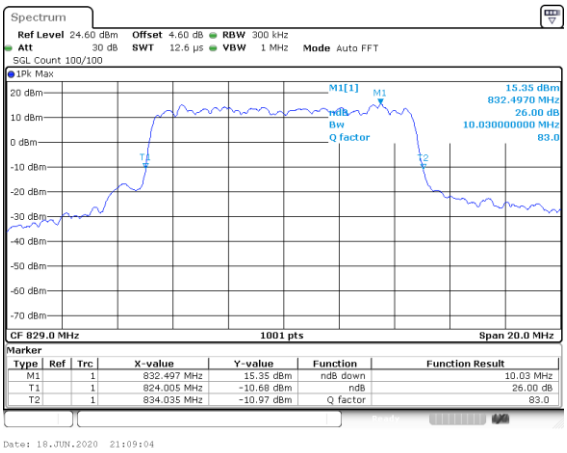
Highest Channel



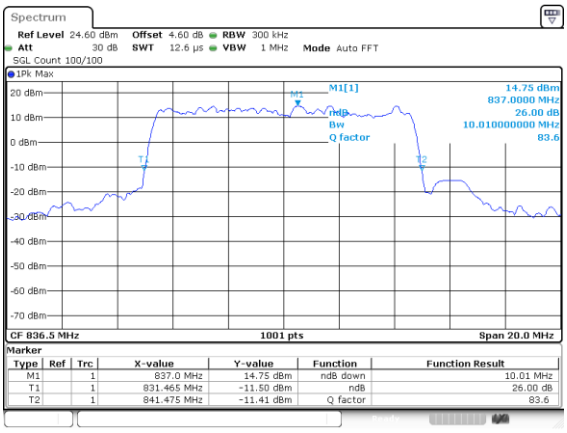
FR1 n5 / 10MHz / CP OFDM

64QAM

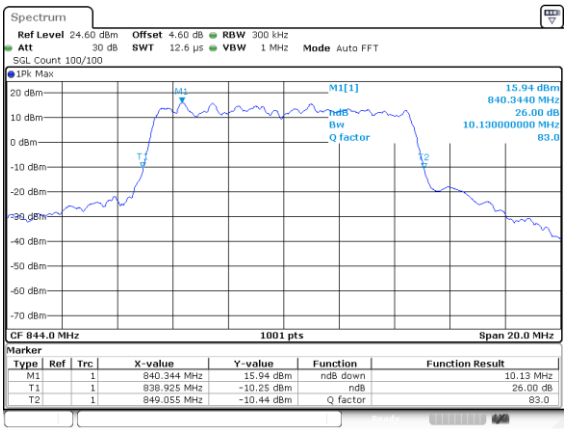
Lowest Channel



Middle Channel

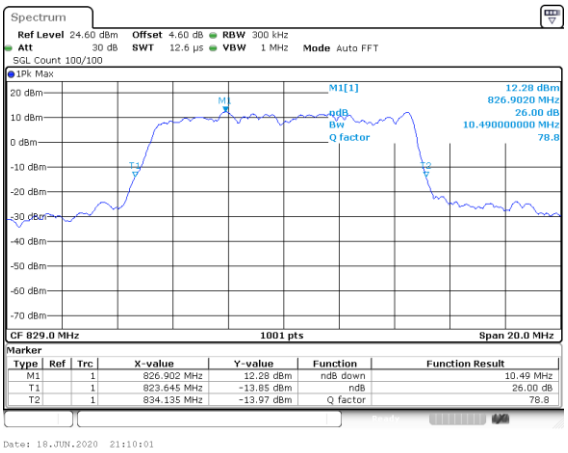


Highest Channel

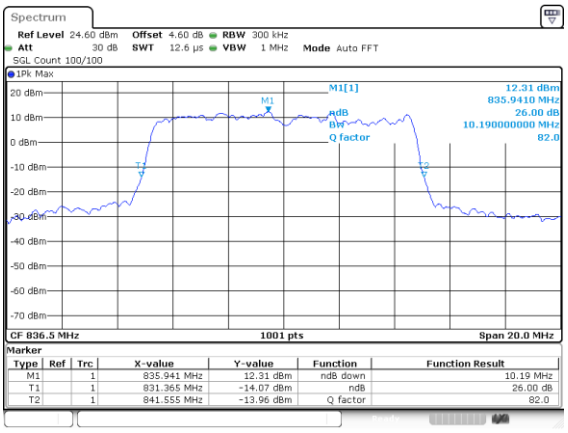


256QAM

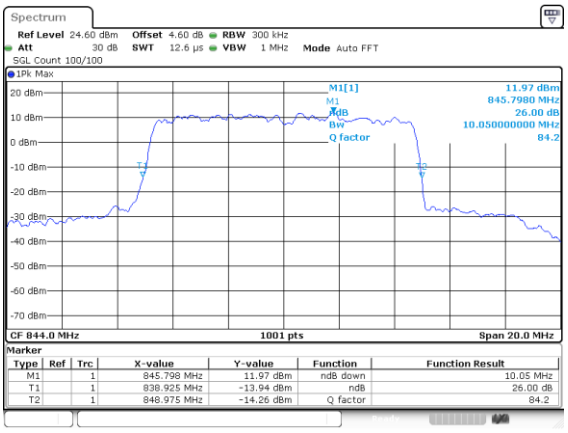
Lowest Channel

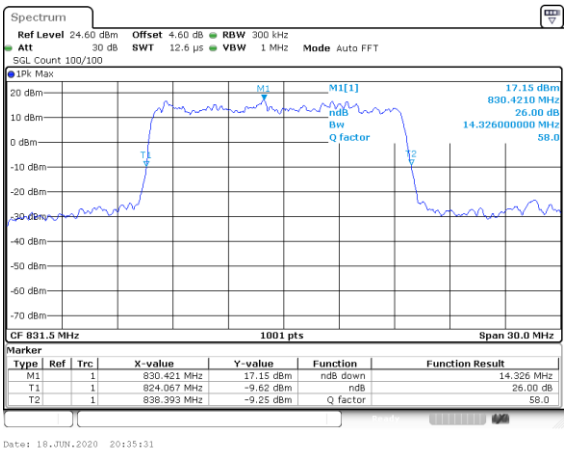
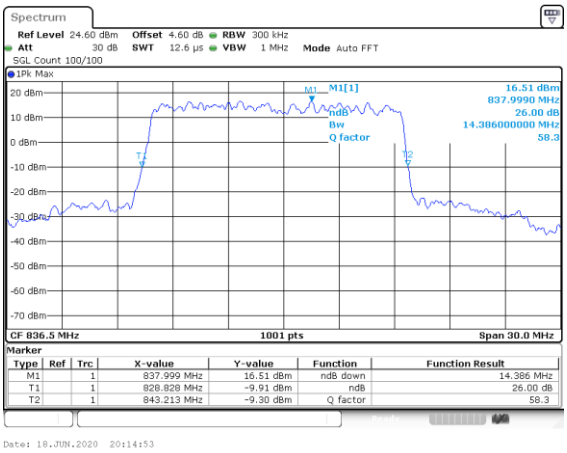
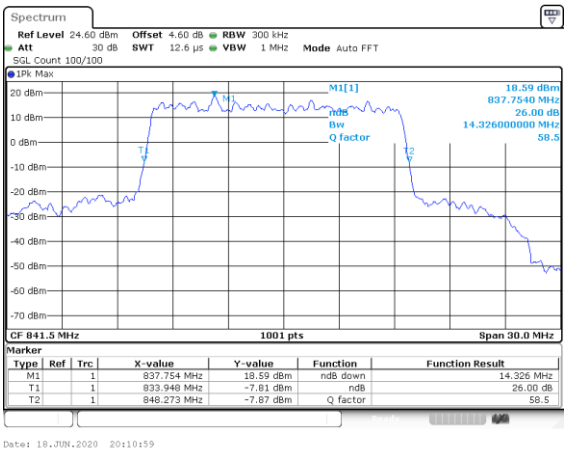


Middle Channel



Highest Channel

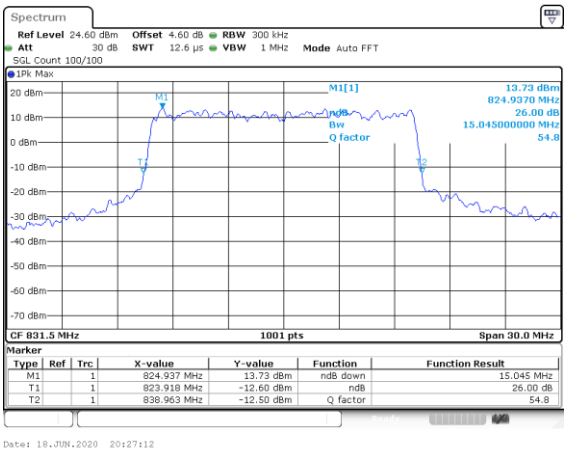


FR1 n5 / 15MHz / DFT-S OFDM	
PI/2 BPSK	
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

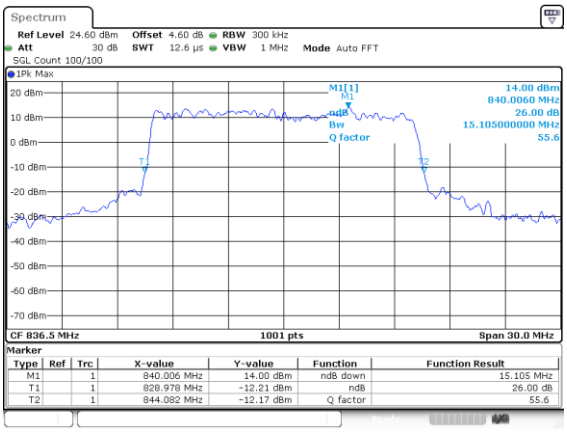
FR1 n5 / 15MHz / CP OFDM

QPSK

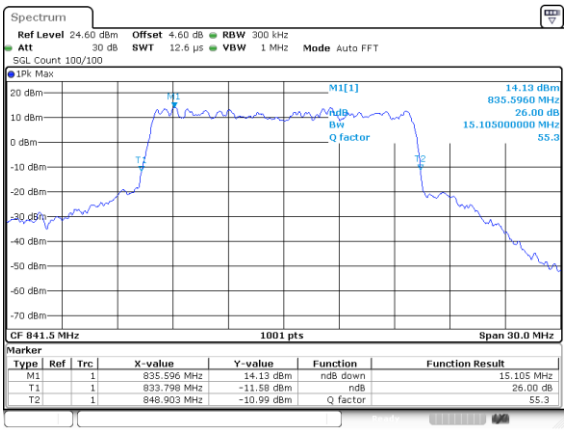
Lowest Channel



Middle Channel

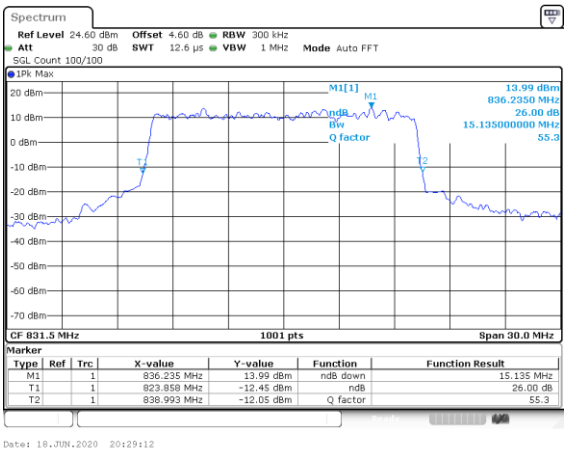


Highest Channel

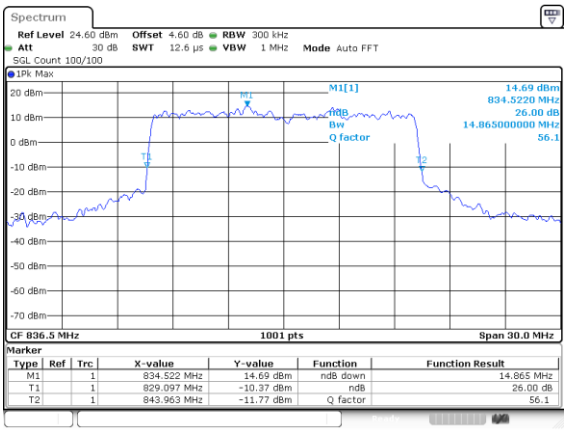


16QAM

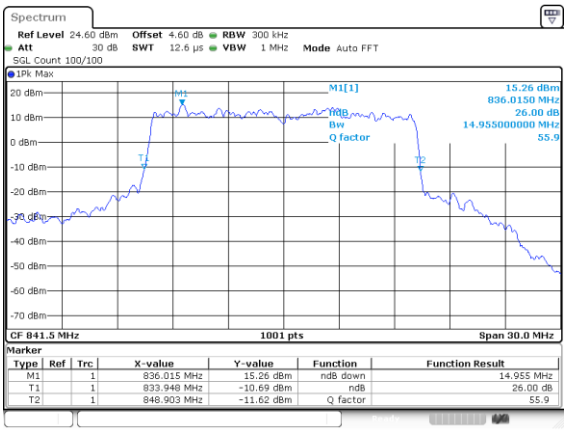
Lowest Channel



Middle Channel



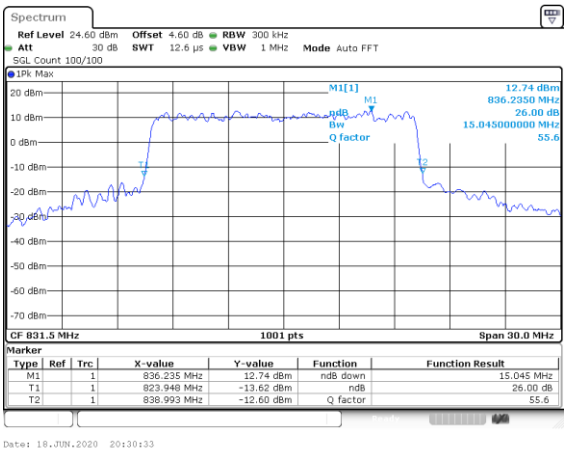
Highest Channel



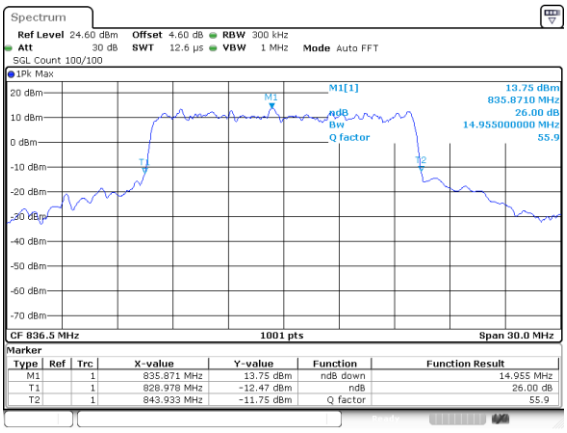
FR1 n5 / 15MHz / CP OFDM

64QAM

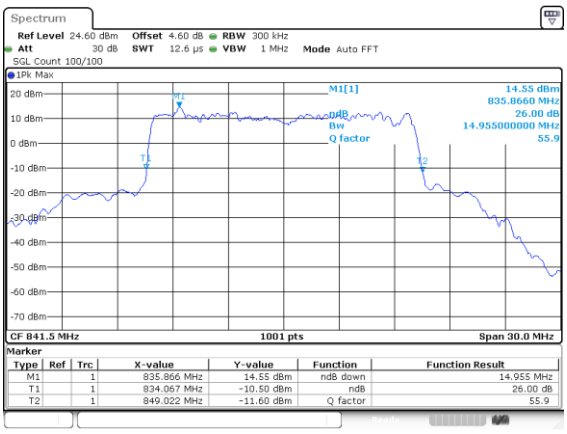
Lowest Channel



Middle Channel

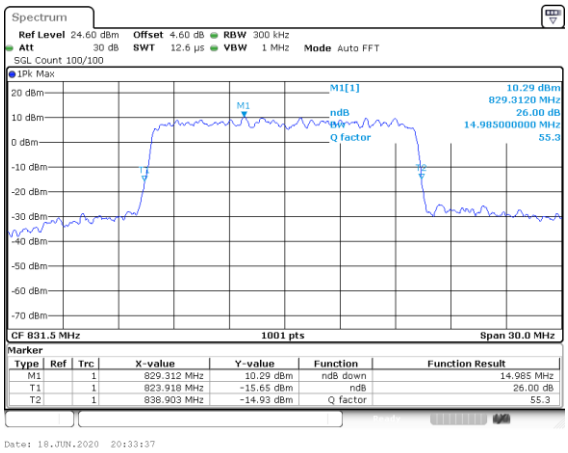


Highest Channel

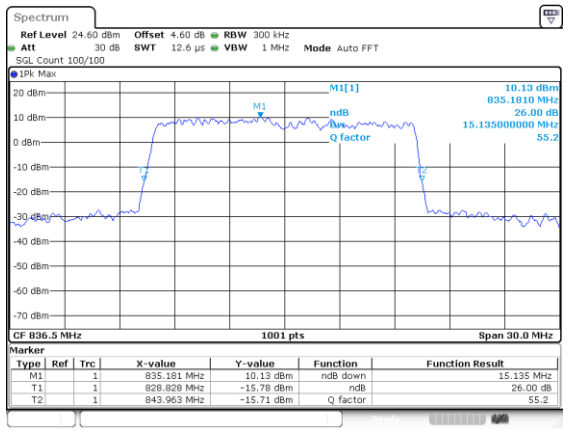


256QAM

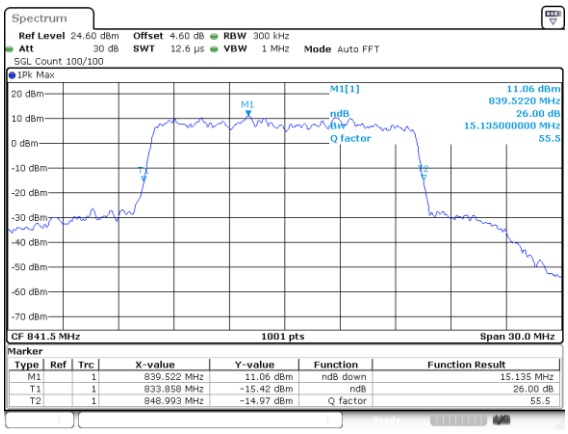
Lowest Channel



Middle Channel



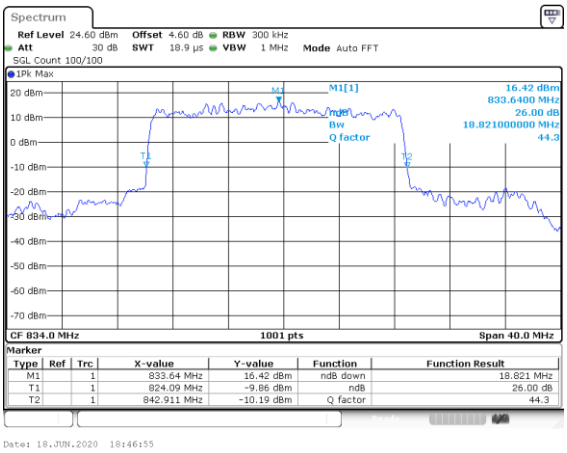
Highest Channel



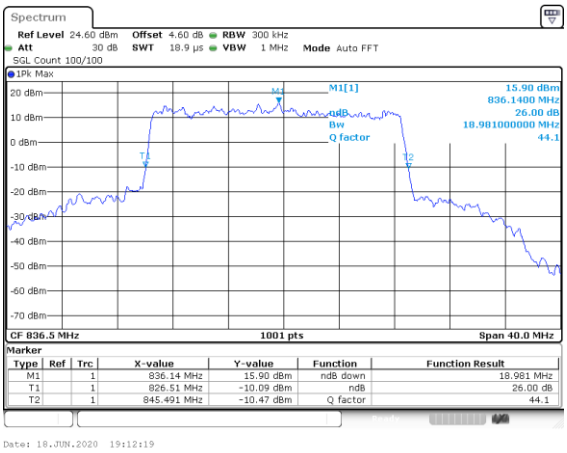
FR1 n5 / 20MHz / DFT-S OFDM

PI/2 BPSK

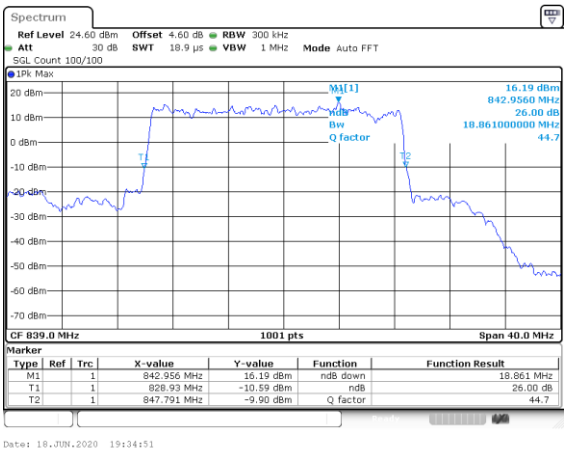
Lowest Channel



Middle Channel



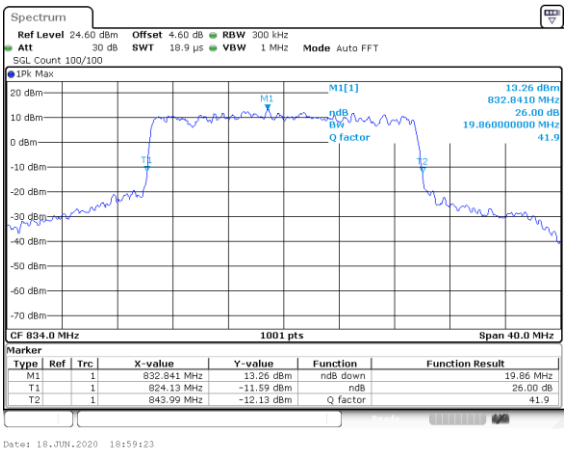
Highest Channel



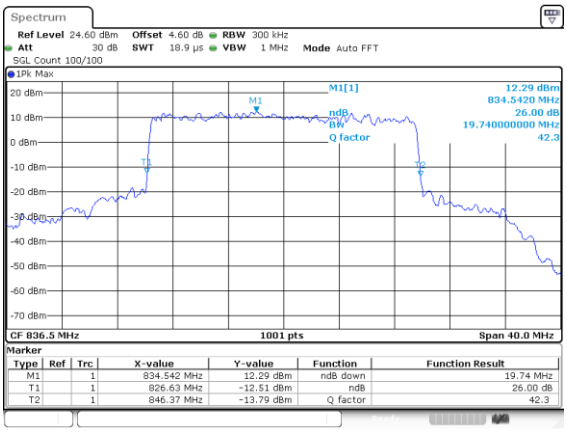
FR1 n5 / 20MHz / CP OFDM

QPSK

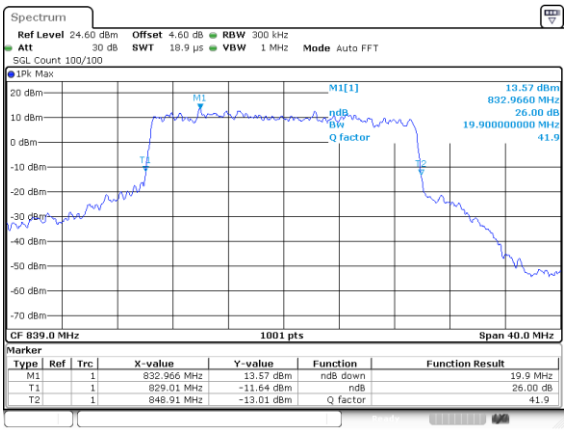
Lowest Channel



Middle Channel

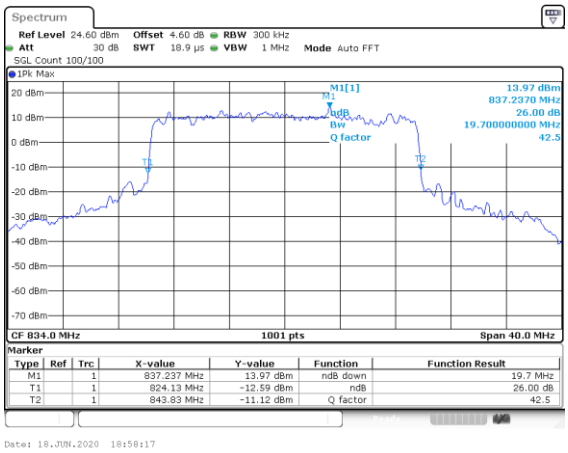


Highest Channel

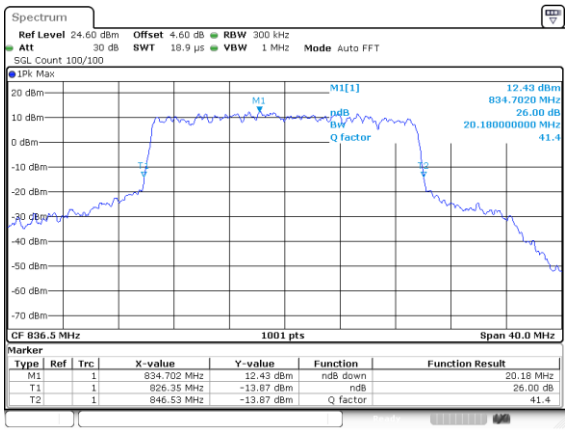


16QAM

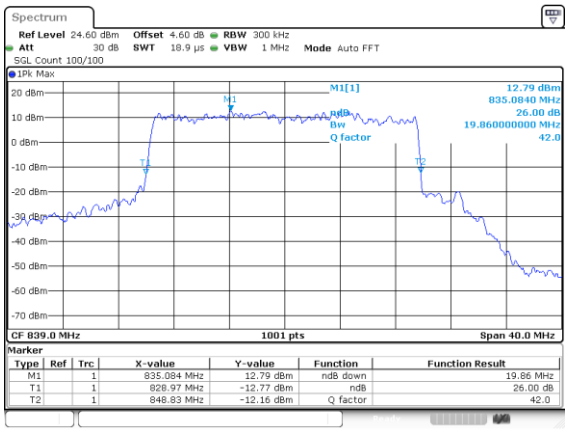
Lowest Channel



Middle Channel



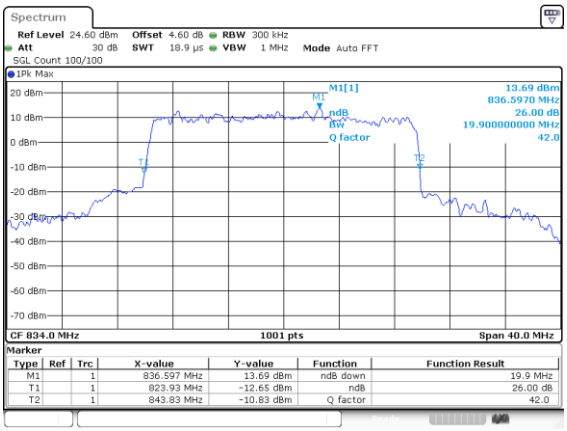
Highest Channel



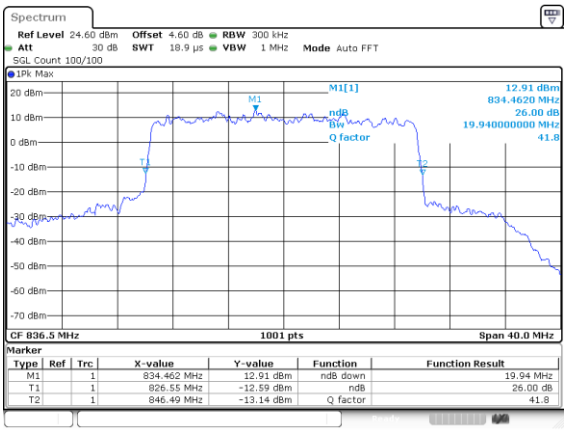
FR1 n5 / 20MHz / CP OFDM

64QAM

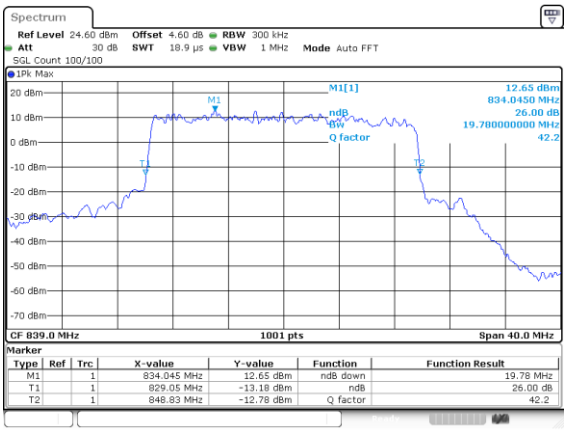
Lowest Channel



Middle Channel

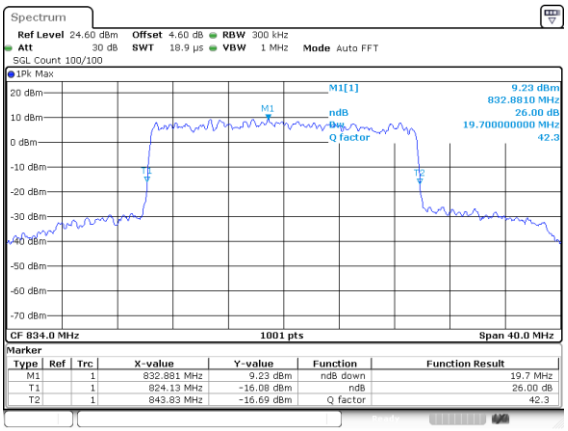


Highest Channel

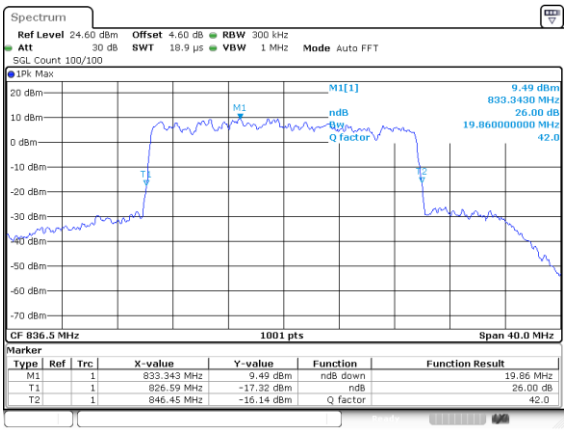


256QAM

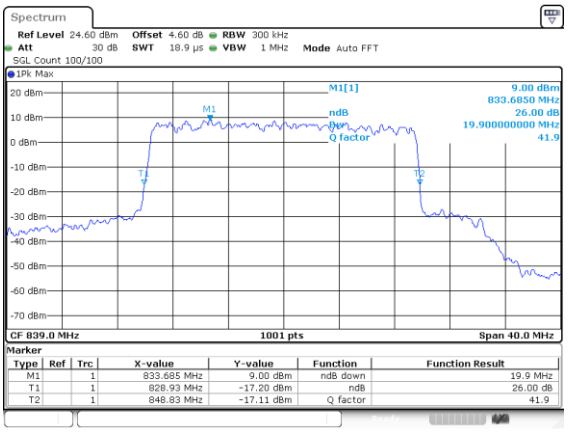
Lowest Channel



Middle Channel



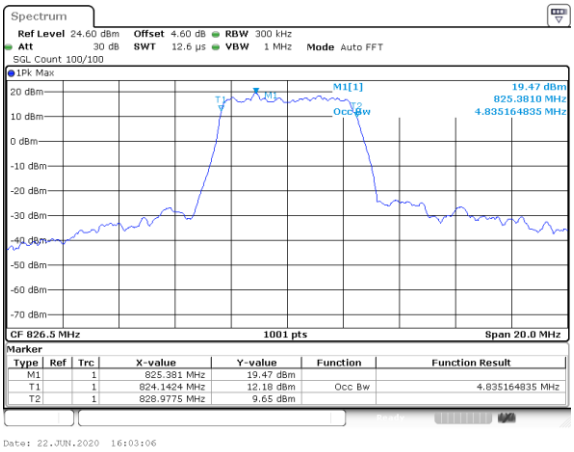
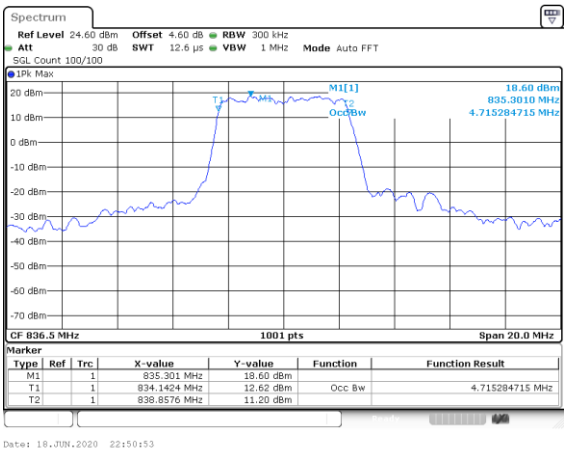
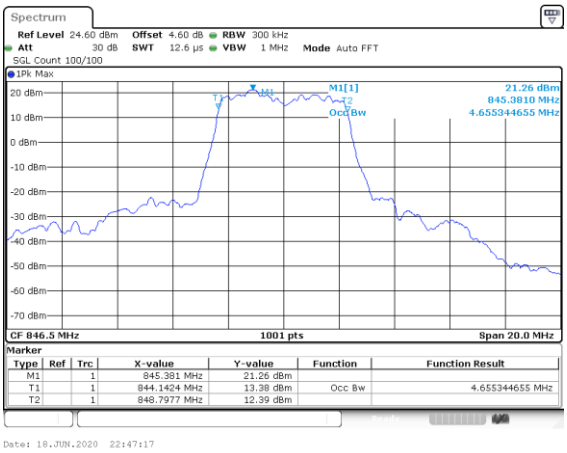
Highest Channel



Occupied Bandwidth

Mode	FR1 n5 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Lowest CH	4.84		9.07		13.46		17.86	
Middle CH	4.72		9.03		13.43		17.90	
Highest CH	4.66		9.03		13.49		17.82	

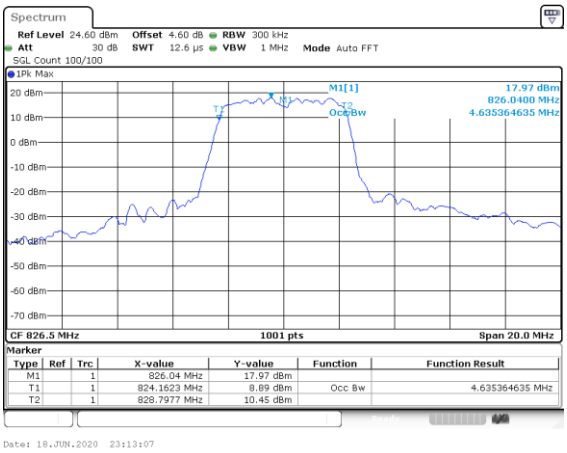
Mode	FR1 n5 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.64	4.70	9.29	9.35	14.12	14.12	18.90	18.90
Middle CH	4.64	4.64	9.33	9.41	14.12	14.09	18.90	18.94
Highest CH	4.64	4.66	9.31	9.33	14.12	14.12	18.90	18.86
Mode	FR1 n5 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	4.64	4.68	9.35	9.37	14.09	14.09	18.78	18.90
Middle CH	4.66	4.66	9.33	9.33	14.18	14.12	18.86	18.82
Highest CH	4.62	4.68	9.33	9.27	14.15	14.12	18.78	18.86

FR1 n5 / 5MHz / DFT-S OFDM	
PI/2 BPSK	
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

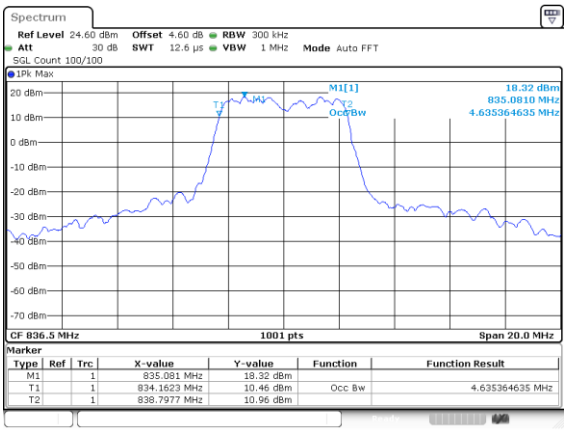
FR1 n5 / 5MHz / CP OFDM

QPSK

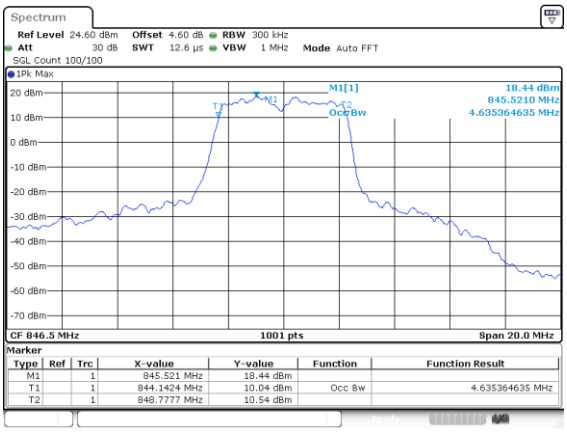
Lowest Channel



Middle Channel

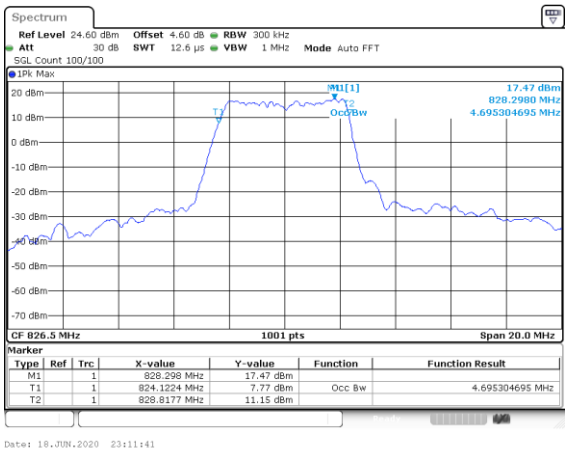


Highest Channel

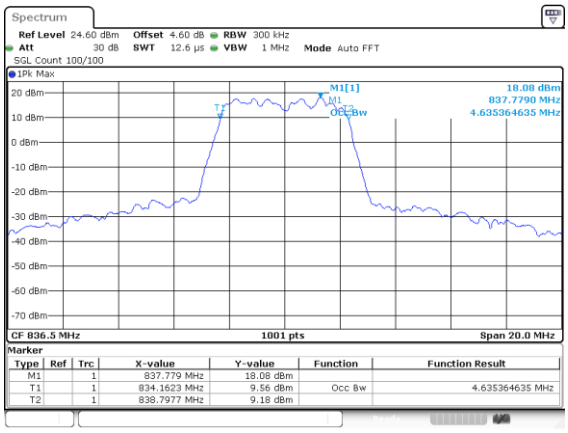


16QAM

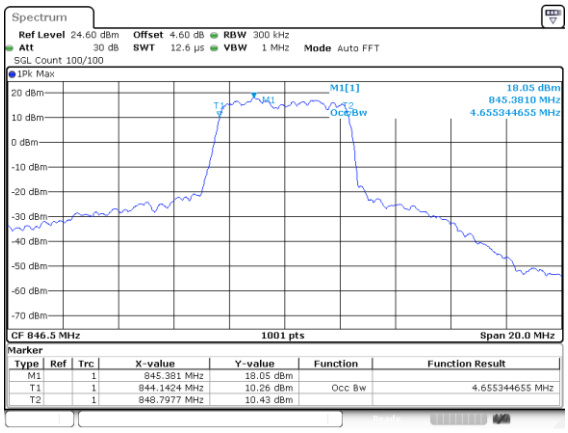
Lowest Channel



Middle Channel



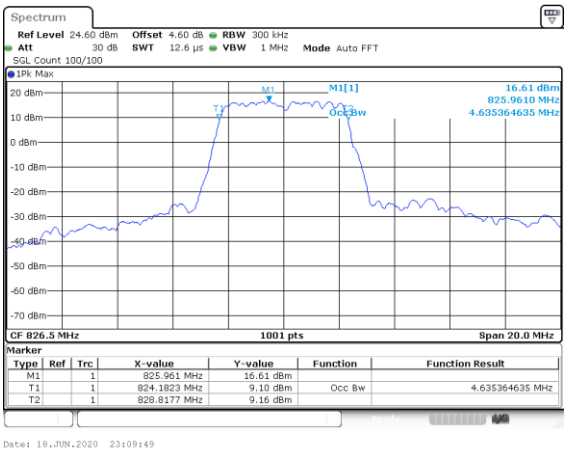
Highest Channel



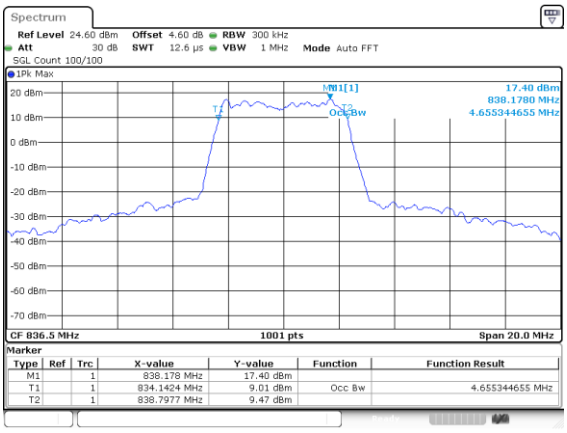
FR1 n5 / 5MHz / CP OFDM

64QAM

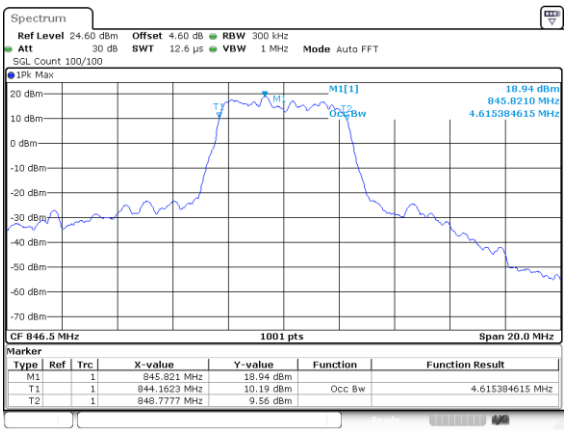
Lowest Channel



Middle Channel

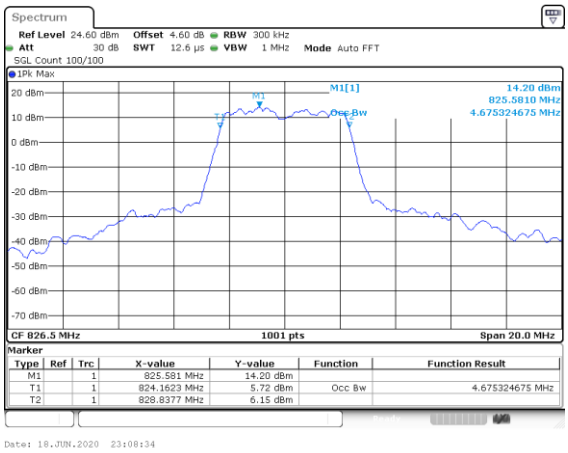


Highest Channel

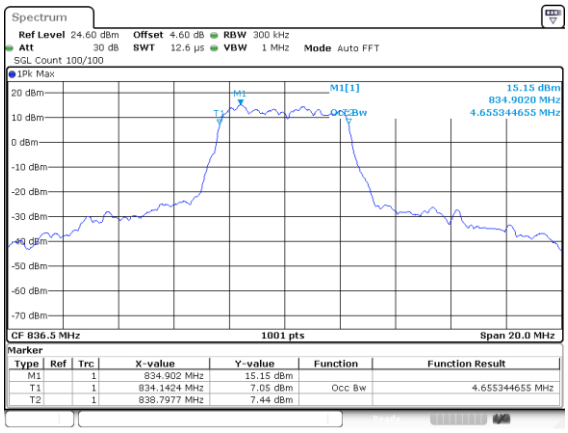


256QAM

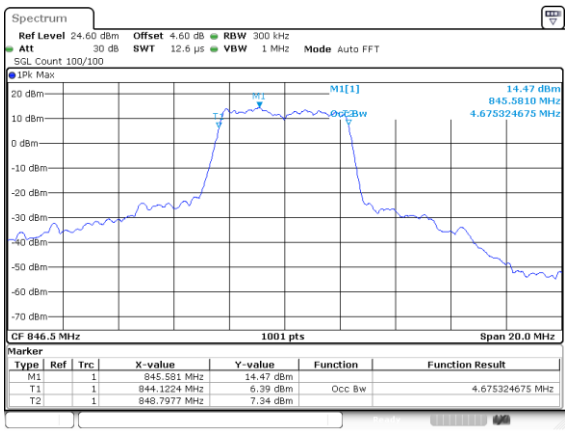
Lowest Channel

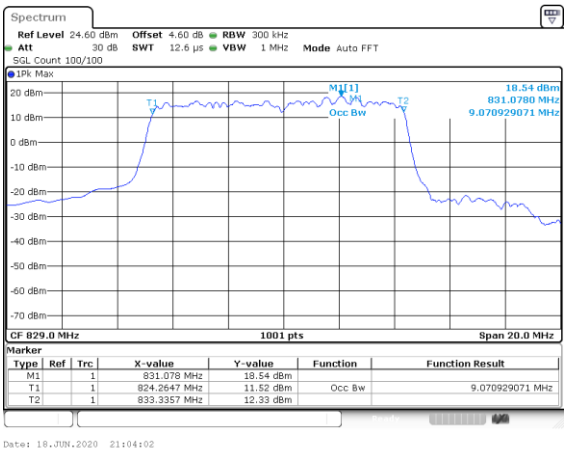
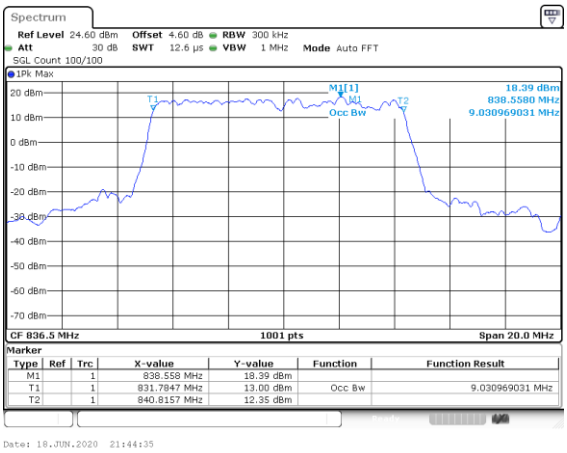


Middle Channel



Highest Channel



FR1 n5 / 10MHz / DFT-S OFDM	
PI/2 BPSK	
Lowest Channel	
	
Middle Channel	
	
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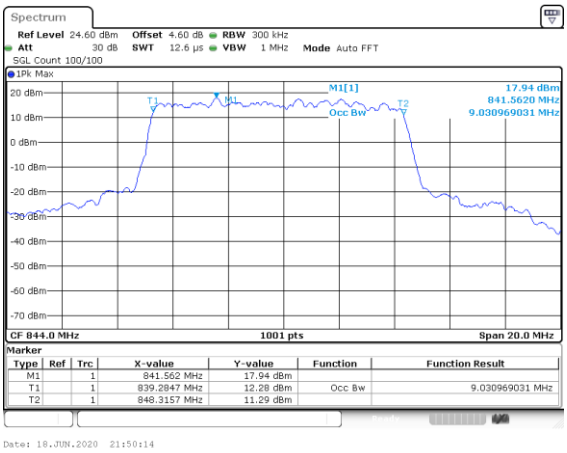
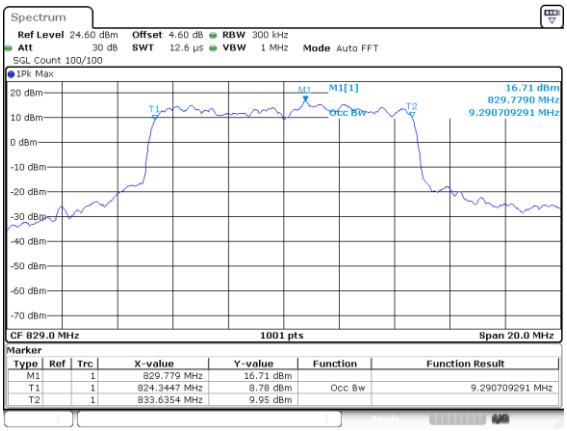
	

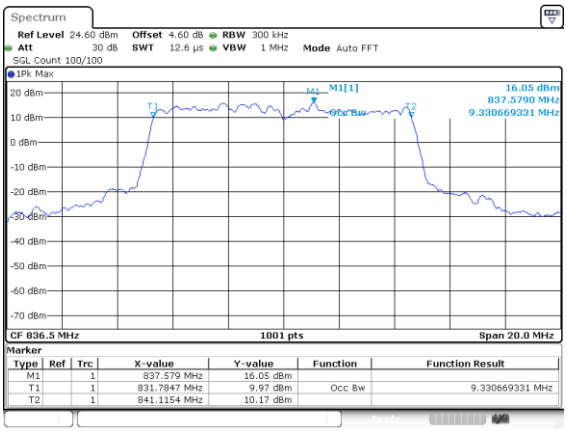
FR1 n5 / 10MHz / CP OFDM

QPSK

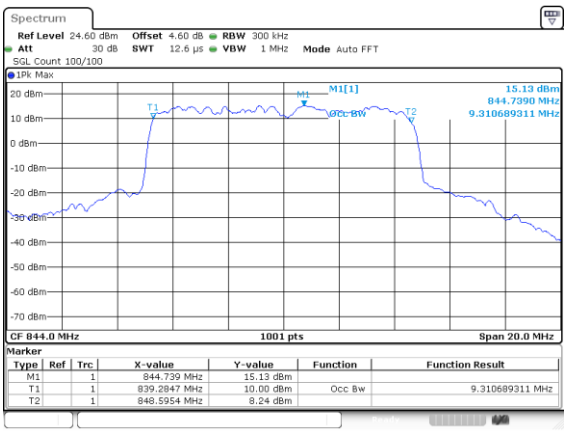
Lowest Channel



Middle Channel

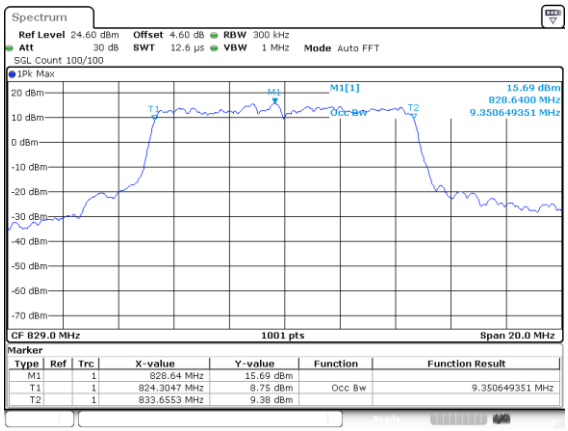


Highest Channel

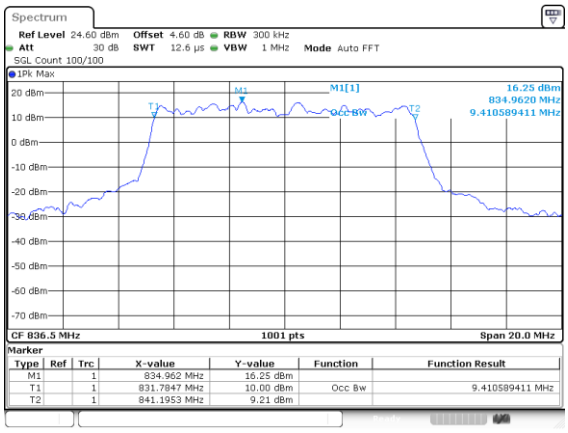
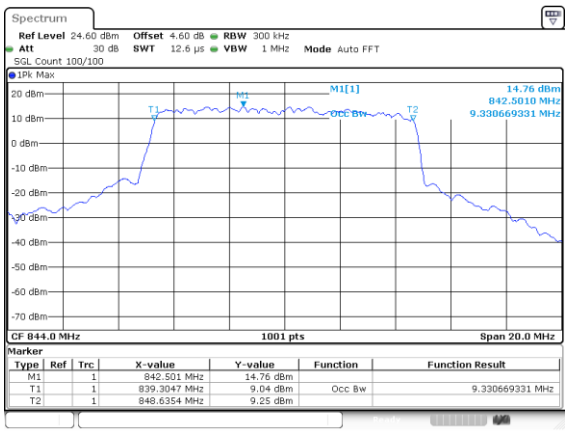


16QAM

Lowest Channel



Middle Channel



Highest Channel