



FCC RADIO TEST REPORT

FCC ID : PKRISGFW2000
Equipment : 5G CPE Wireless Solution
Brand Name : Inseego
Model Name : FW2000
Marketing Name : FW2000,FW2000e
Applicant : Inseego Corporation
9710 Scranton Road Suite 200, San Diego,, CA 92121
Manufacturer : Inseego Corp.
9710 Scranton Road Suite 200, San Diego, CA 92121
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Jul. 09, 2021 and testing was started from Mar. 16, 2022 and completed on Mar. 24, 2022. 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 variant 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 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG082512-06	01	Initial issue of report	Mar. 30, 2022

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§27.50 (h)(2)	Conducted Output Power (n7) (n38) (n41)	Not Required	
	§22.913 (a)(2)	Effective Radiated Power (n5)	Not Required	
	§27.50 (c)(9)	Effective Radiated Power (n12) (n71)	Not Required	
	§24.232 (c)	Equivalent Isotropic Radiated Power (n2) (n25)	Not Required	
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (n66)	Not Required	
	-	Equivalent Isotropic Radiated Power (n77) (n78)	Reporting only	
	§27.50 (j)(2)	Equivalent Isotropic Radiated Power Power Density	Pass	
3.3	§24.232 (d) §27.50 (d)(5) 27.50 (j)(4)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Pass	-
3.5	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (h) §27.53 (l)(1)	Conducted Band Edge Measurement (n2) (n5) (n12) (n25) (n66) (n71) (n77) (n78)	Pass	-
	§2.1051 §27.53 (m)(2)(v)	Conducted Band Edge Measurement (n7) (n38) (n41)		
3.6	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (h) §27.53 (l)(1)	Conducted Spurious Emission (n2) (n5) (n12) (n25) (n66) (n71) (n77) (n78)	Pass	-
	§2.1051 §27.53 (m)(2)(v)	Conducted Spurious Emission (n7) (n38) (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) §27.53 (l)(1)	Radiated Spurious Emission (n2) (n5) (n12) (n25) (n66) (n71) (n77) (n78)	Pass	Under limit 15.64 dB at 15325.000 MHz
	§2.1051 §27.53 (m)(2)(v)	Radiated Spurious Emission (n7) (n38) (n41)		

Remark:

1. Not required means after assessing, test items are not necessary to carry out.
2. This is a variant report by enable 5G Sub-6 FR1 n77 SA, and NSA for bands 2A-n77A, 5A-n77A, 12A-n77A, 13A-n77A, 14A-n77A, 30A-n77A, 66A-n77A operation via embedded software. All the test cases were performed on original report which can be referred to Sporton Report Number FG082512-04. Based on the original report, the test cases were verified.

Declaration of Conformity:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to this report "Uncertainty of Evaluation".

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Lewis Ho**Report Producer: Lucy Wu**



1 General Description

1.1 Product Feature of Equipment Under Test

LTE/5G NR, Bluetooth and GNSS.

Product Feature	
Antenna Type	WWAN: Fixed Internal Antenna Bluetooth: Fixed Internal Antenna GPS/Glonass/Galileo/BDS : Fixed Internal Antenna
Antenna Gain	<Ant. 4>: 5G NR n77: 13.3 dBi

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Modification of EUT

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



1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH03-HY
Test Engineer	Luffy Lin
Temperature (°C)	23.5~24.1
Relative Humidity (%)	51~55

Test Site	Sporton International Inc. Wensan Laboratory.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH12-HY (TAF Code: 3786)
Test Engineer	Jack Cheng and Lance Chiang
Temperature (°C)	21.6~26.2
Relative Humidity (%)	56~68
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

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

FCC Designation No.: TW1190 and TW3786

1.4 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

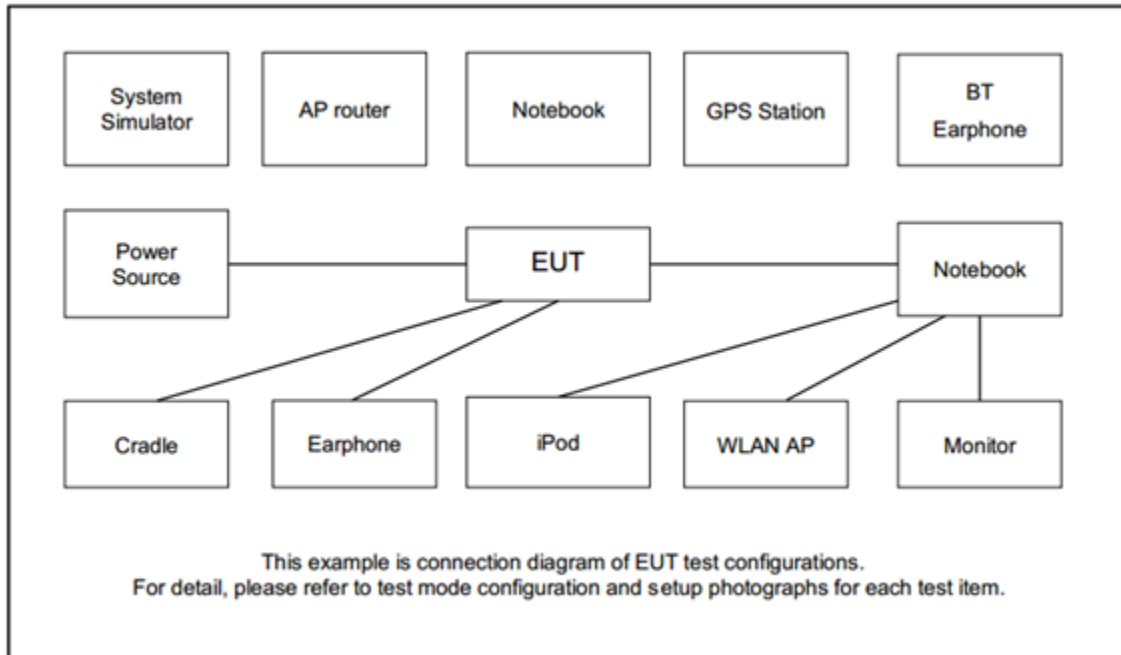
Antenna port conducted and radiated test items listed below are performed according to KDB 971168

D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find Y plane as worst plane.

Test Items	NR Band	Bandwidth (MHz)												Modulation					RB #			Test Channel			
		10	15	20	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H		
Max. Output Power	n77			v		v	v	v		v	v	v	v	v	v	v	v	v	v	v	v	v	v		
EIRP Power Density	n77			v		v	v	v		v	v	v	v	v				v		v	v	v	v		
Peak-to-Average Ratio	n77			v									v	v	v	v	v			v		v			
26dB and 99% Bandwidth	n77			v		v	v	v		v	v	v	v	v	v	v	v			v		v			
Conducted Band Edge	n77			v		v	v	v		v	v	v	v	v	v	v	v	v		v	v		v		
Conducted Spurious Emission	n77			v										v				v			v	v	v		
Frequency Stability	n77			v									v							v		v			
E.I.R.P	n77			v		v	v	v		v	v	v	v	v	v	v	v	Max. Power							
Radiated Spurious Emission	n77	Worst Case																					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 are EN-DC 2A_n77A, EN-DC 5A_n77A, EN-DC 12A_n77A, EN-DC 13A_n77A, EN-DC 14A_n77A, EN-DC 30A_n77A, EN-DC 66A_n77A. 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, and the worst modes of FR1 and LTE for simultaneous transmission were verified and compliant.																								

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	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 :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

5G NR Band n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
90	Channel	649668	656000	662332
	Frequency	3745.02	3840	3934.98
80	Channel	649334	656000	662666
	Frequency	3740.01	3840	3939.99
60	Channel	648668	656000	663332
	Frequency	3730.02	3840	3949.98
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99

3 Conducted Test Items

3.1 Measuring Instruments

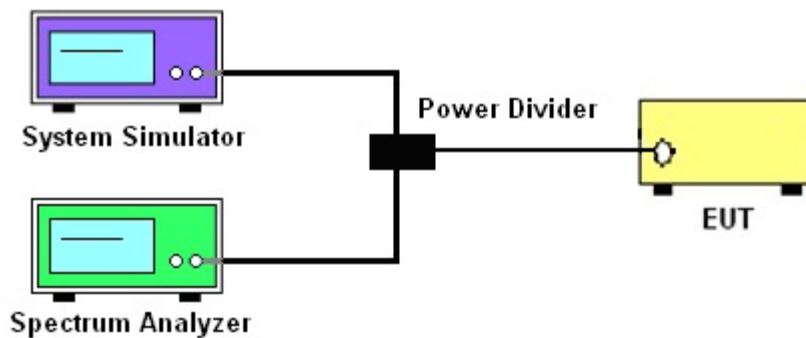
See list of measuring instruments of this test report.

3.1.1 Test Setup

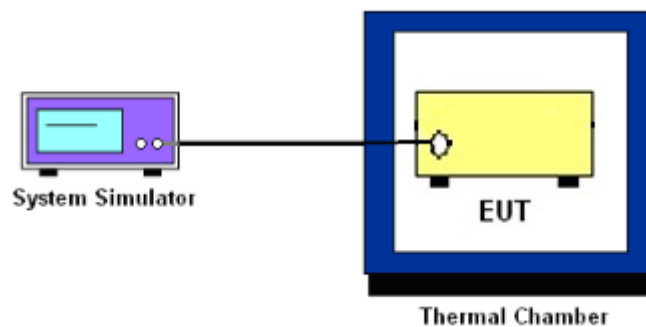
3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, EIRP Power Density, 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.

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

For n77

27.50(j)(2)

(2) The power of each fixed or base station transmitting in the 3700-3980 MHz band and situated in any geographic location other than that described in paragraph (j)(1) of this section is limited to an EIRP of 1640 Watts/MHz. This limit applies to the aggregate power of all antenna elements in any given sector of a base station.

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

27.53 (l)(2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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 $\geq 1\%$ 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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)



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.

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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)

3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

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.

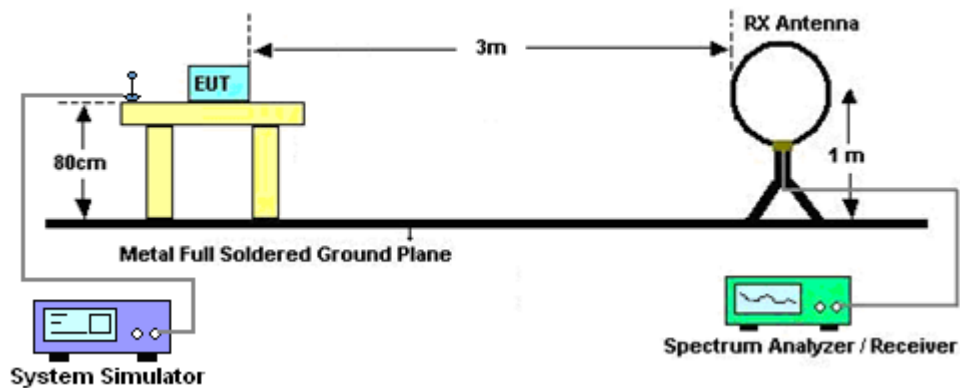
4 Radiated Test Items

4.1 Measuring Instruments

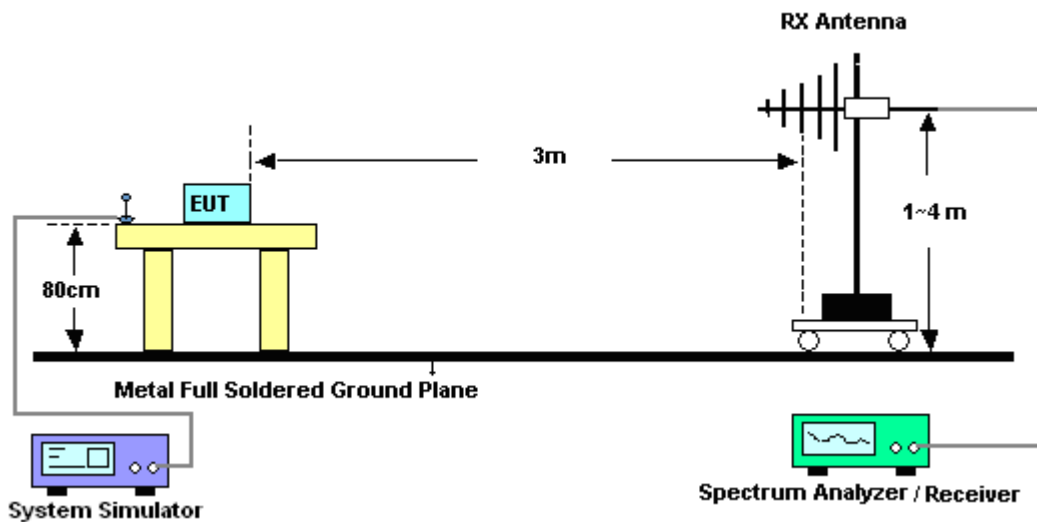
See list of measuring instruments of this test report.

4.1.1 Test Setup

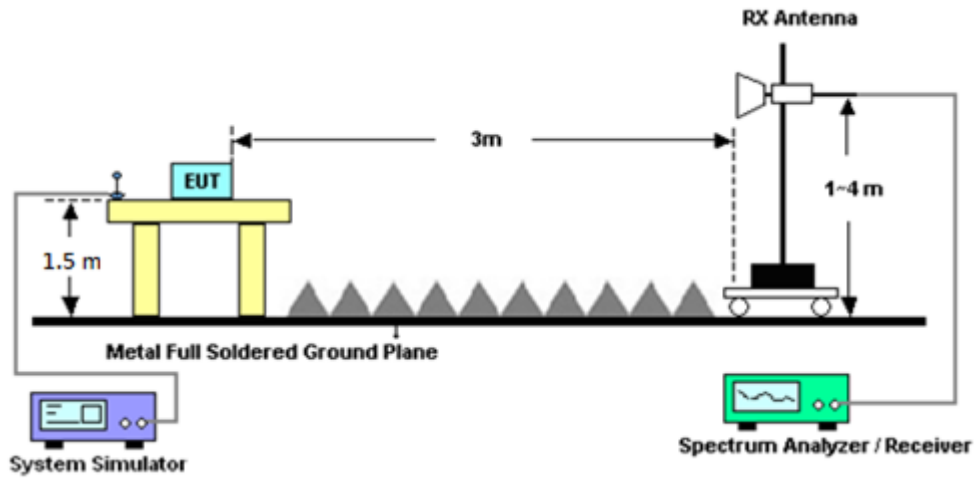
For radiated emissions below 30MHz



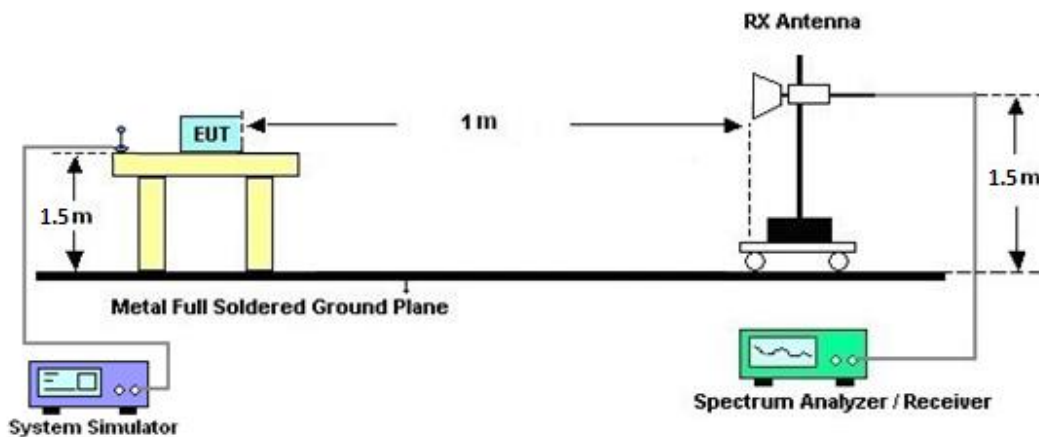
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated emissions above 18GHz



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 adequate comparison measurement 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.

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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$

$ERP \text{ (dBm)} = EIRP - 2.15$



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 07, 2021	Mar. 21, 2022	Sep. 06, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Oct. 09, 2021	Mar. 21, 2022	Oct. 08, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 09, 2021	Mar. 21, 2022	Oct. 08, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1328	1GHz~18GHz	Dec. 03, 2021	Mar. 21, 2022	Dec. 02, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1212	1GHz~18GHz	May 18, 2021	Mar. 21, 2022	May 17, 2022	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz~40GHz	Nov. 30, 2021	Mar. 21, 2022	Nov. 29, 2022	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 21, 2021	Mar. 21, 2022	May 20, 2022	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 24, 2021	Mar. 21, 2022	Mar. 23, 2022	Radiation (03CH12-HY)
Preamplifier	Aglient	8449B	3008A02375	1GHz~26.5GHz	May 25, 2021	Mar. 21, 2022	May 24, 2022	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900270	1GHz-18GHz	Dec. 27, 2021	Mar. 21, 2022	Dec. 26, 2022	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Mar. 21, 2022	Jun. 21, 2022	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 15, 2021	Mar. 21, 2022	Oct. 14, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 10, 2021	Mar. 21, 2022	Dec. 09, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 21, 2022	Mar. 21, 2022	Feb. 20, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Mar. 08, 2022	Mar. 21, 2022	Mar. 07, 2023	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12SS	SN2	1.2GHz Low Pass Filter	Mar. 15, 2022	Mar. 21, 2022	Mar. 14, 2023	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN2	6.75GHz High Pass Filter	Mar. 15, 2022	Mar. 21, 2022	Mar. 14, 2023	Radiation (03CH12-HY)
Hygrometer	TECEPEL	DTM-303B	TP140349	N/A	Sep. 30, 2021	Mar. 21, 2022	Sep. 29, 2022	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 21, 2022	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Mar. 21, 2022	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Mar. 21, 2022	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Mar. 21, 2022	N/A	Radiation (03CH12-HY)
AC Power Source	AC POWER	AFC-500W	F104070011	50Hz~60Hz	Sep. 14, 2021	Mar. 16, 2022~Mar. 24, 2022	Sep. 13, 2022	Conducted (TH03-HY)
Hygrometer	Testo	608-H11	34893240	NA	Nov. 17, 2021	Mar. 16, 2022~Mar. 24, 2022	Nov. 16, 2022	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	Apr. 20, 2021	Mar. 16, 2022~Mar. 24, 2022	Apr. 19, 2022	Conducted (TH03-HY)
Temperature Chamber	ESPEC	LHU-113	1012005860	-20℃ ~85℃	May 15, 2021	Mar. 16, 2022~Mar. 24, 2022	May 14, 2022	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6261849015	LTE	Oct. 06, 2021	Mar. 16, 2022~Mar. 24, 2022	Oct. 05, 2022	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6261940327	FR1	Oct. 29, 2021	Mar. 16, 2022~Mar. 24, 2022	Oct. 28, 2022	Conducted (TH03-HY)



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.10 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.39 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.34 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and EIRP

NR n77 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	21.55	23.89	22.77	37.19	5.2360		
20	1	49		21.36	23.69	22.86				
20	25	12		21.33	23.64	22.78				
20	1	0		18.04	19.87	19.26				
20	1	50		17.87	20.21	19.39				
20	50	0		20.89	23.15	22.34				
20	1	1	QPSK	21.56	23.42	22.77				
20	1	49		21.36	23.66	22.74				
20	25	12		21.35	23.68	22.76				
20	1	0		18.08	19.91	19.31				
20	1	50		17.81	20.17	19.45				
20	50	0		20.36	22.66	21.82				
20	1	1	16-QAM	20.46	22.36	22.81	36.11	4.0832		
20	1	1	64-QAM	19.05	20.94	20.28				
20	1	1	256-QAM	17.12	19.03	18.24				
Limit	N/A			Result			Reporting only			

NR n77 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	21.80	23.44	22.88	37.14	5.1761		
40	1	104		22.14	23.84	22.98				
40	50	25		21.68	23.82	22.91				
40	1	0		18.35	19.98	19.41				
40	1	105		18.71	20.30	19.58				
40	100	0		21.21	23.19	22.45				
40	1	1	QPSK	21.84	23.41	22.91				
40	1	104		22.24	23.82	23.16				
40	50	25		21.67	23.80	22.95				
40	1	0		18.34	19.95	19.42				
40	1	105		18.66	20.26	19.51				
40	100	0		20.71	22.74	21.94				
40	1	1	16-QAM	20.72	22.43	21.85	35.73	3.7411		
40	1	1	64-QAM	19.95	20.94	20.43				
40	1	1	256-QAM	17.29	18.95	18.42				
Limit	N/A			Result			Reporting only			



NR n77 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
50	1	1	PI/2 BPSK	21.34	23.02	22.52	36.87	4.8641		
50	1	131		21.65	23.42	22.84				
50	64	32		21.43	23.54	22.77				
50	1	0		17.85	19.54	19.05				
50	1	132		18.09	19.95	19.34				
50	128	0		20.94	23.01	22.21				
50	1	1	QPSK	21.39	23.02	22.54				
50	1	131		21.62	23.46	22.93				
50	64	32		21.32	23.57	22.82				
50	1	0		17.85	19.54	19.04				
50	1	132		18.08	19.95	19.35				
50	128	0		20.45	22.51	21.75				
50	1	1	16-QAM	20.15	21.95	21.48	35.25	3.3497		
50	1	1	64-QAM	18.81	20.54	20.05				
50	1	1	256-QAM	16.82	18.48	18.04				
Limit	N/A			Result			Reporting only			

NR n77 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
60	1	1	PI/2 BPSK	21.49	23.01	23.68	37.18	5.2240		
60	1	160		21.63	23.45	23.82				
60	81	40		21.72	23.58	23.81				
60	1	0		17.93	19.48	20.17				
60	1	161		18.10	19.95	20.57				
60	162	0		21.16	22.93	23.54				
60	1	1	QPSK	21.54	22.98	23.66				
60	1	160		21.65	23.42	23.83				
60	81	40		21.68	23.59	23.88				
60	1	0		17.95	19.52	20.17				
60	1	161		18.14	19.95	20.56				
60	162	0		20.65	22.43	23.05				
60	1	1	16-QAM	20.45	22.02	22.62	35.92	3.9084		
60	1	1	64-QAM	18.95	20.45	21.25				
60	1	1	256-QAM	16.72	18.46	19.27				
Limit	N/A			Result			Reporting only			



NR n77 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
80	1	1	PI/2 BPSK	21.56	23.58	23.49	37.18	5.2240		
80	1	215		21.55	23.35	23.88				
80	108	54		21.78	23.59	23.82				
80	1	0		18.02	19.48	19.98				
80	1	216		18.08	19.81	20.50				
80	216	0		21.16	22.92	23.52				
80	1	1	QPSK	21.62	23.22	23.45				
80	1	215		21.58	23.31	23.84				
80	108	54		21.76	23.59	23.85				
80	1	0		18.05	19.51	19.94				
80	1	216		18.12	19.78	20.51				
80	216	0		20.65	22.42	23.02				
80	1	1	16-QAM	20.47	21.92	22.46	35.76	3.7670		
80	1	1	64-QAM	19.06	20.51	20.93				
80	1	1	256-QAM	17.06	18.46	18.99				
Limit	N/A			Result			Reporting only			

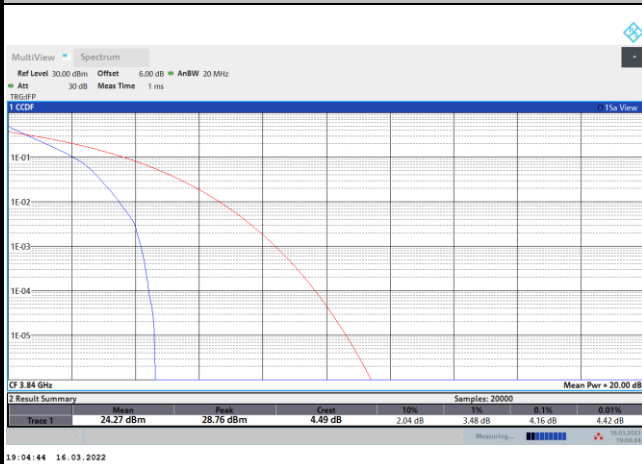
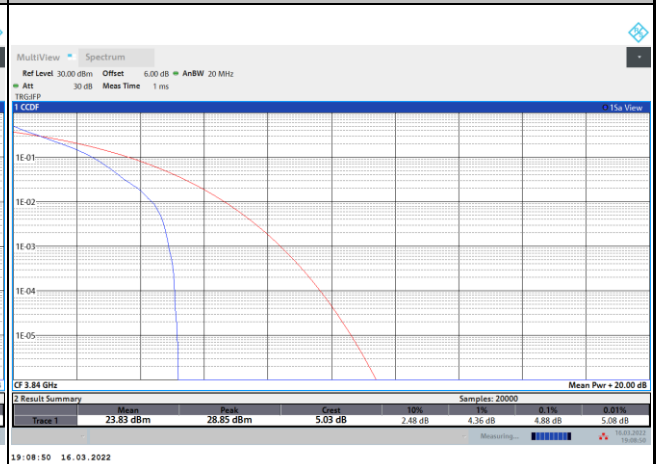
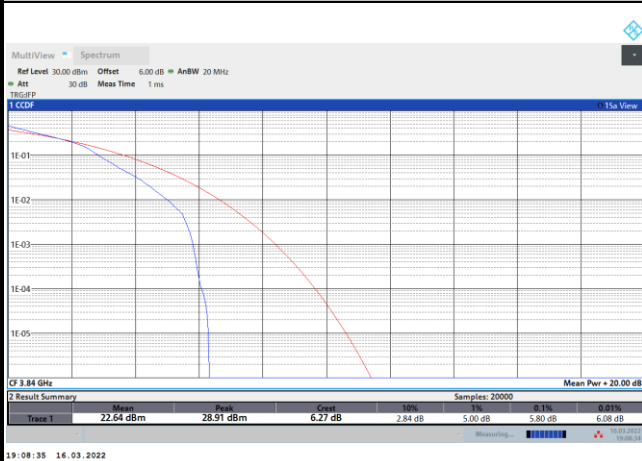
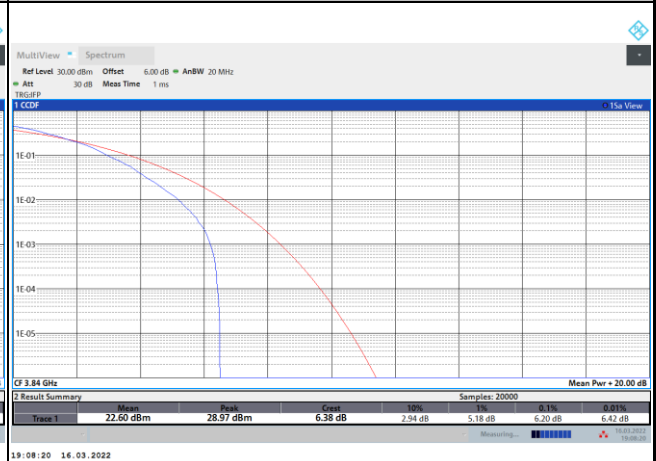
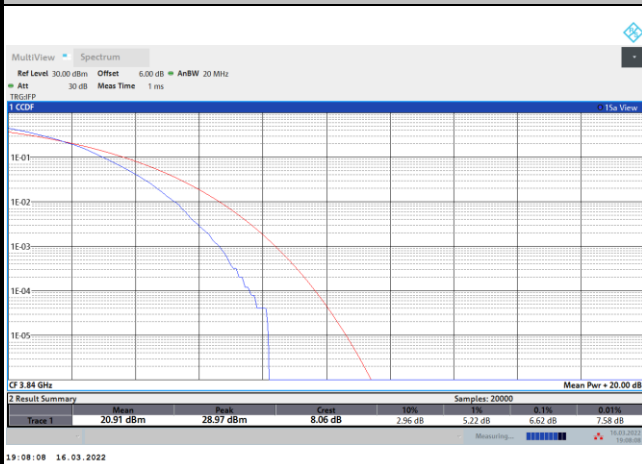
NR n77 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
90	1	1	PI/2 BPSK	21.52	22.92	23.48	37.15	5.1880		
90	1	243		21.82	23.38	23.82				
90	120	60		21.70	23.50	23.79				
90	1	0		17.99	19.33	19.91				
90	1	244		18.29	19.84	20.51				
90	243	0		21.09	22.95	23.49				
90	1	1	QPSK	21.53	22.86	23.45				
90	1	243		21.76	23.34	23.85				
90	120	60		21.71	23.47	23.83				
90	1	0		18.04	19.36	19.96				
90	1	244		18.31	19.88	20.45				
90	243	0		20.60	22.43	22.98				
90	1	1	16-QAM	20.49	21.84	22.36	35.66	3.6813		
90	1	1	64-QAM	19.05	20.38	20.95				
90	1	1	256-QAM	17.18	18.28	18.92				
Limit	N/A			Result			Reporting only			



NR n77 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
100	1	1	PI/2 BPSK	21.49	22.79	23.35	37.15	5.1880		
100	1	271		21.91	23.43	23.85				
100	135	67		21.75	23.44	23.81				
100	1	0		18.05	19.26	19.82				
100	1	272		18.43	19.96	20.56				
100	270	0		21.22	22.83	23.35				
100	1	1	QPSK	21.58	22.85	23.27				
100	1	271		21.89	23.51	23.84				
100	135	67		21.73	23.43	23.81				
100	1	0		18.07	19.31	19.79				
100	1	272		18.42	19.97	20.54				
100	270	0		20.71	22.32	22.87				
100	1	1	16-QAM	20.54	21.78	22.24	35.54	3.5810		
100	1	1	64-QAM	19.12	20.35	20.68				
100	1	1	256-QAM	17.09	18.28	18.78				
Limit	N/A			Result			Reporting only			

**FR1 n77****Peak-to-Average Ratio**

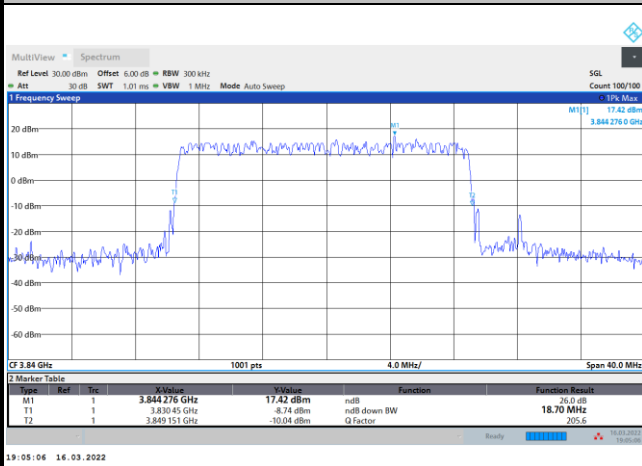
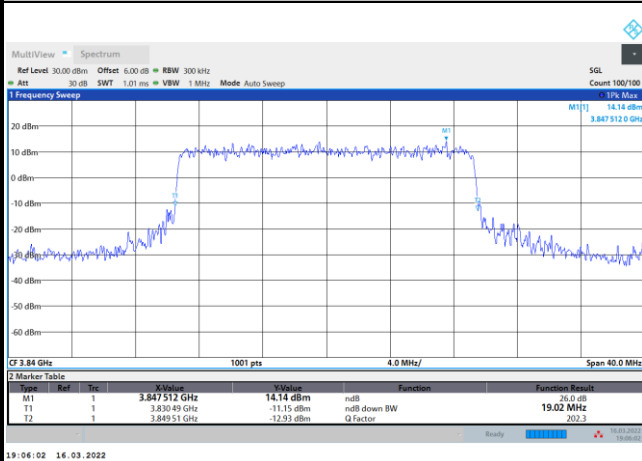
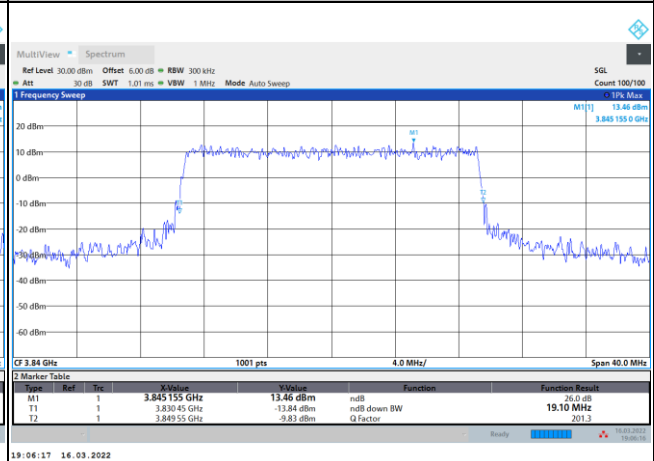
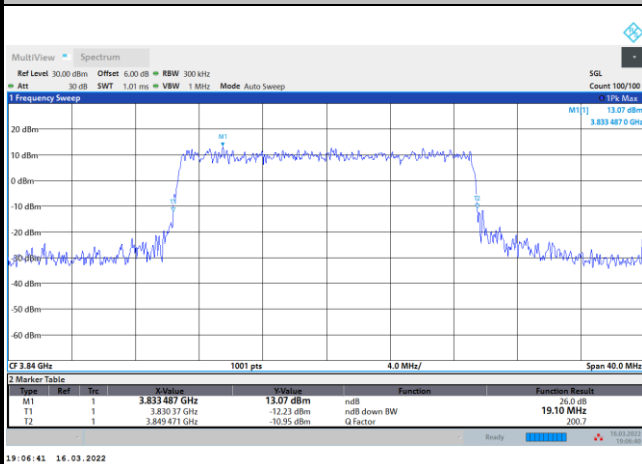
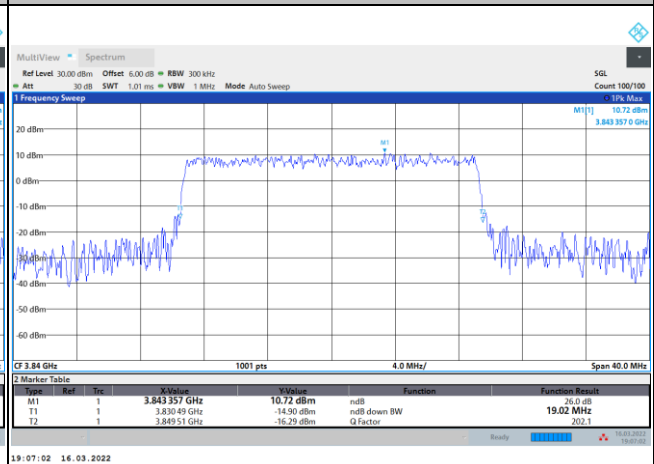
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Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.16	4.88	5.80	6.20	PASS
Mode	FR1 n77 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.62				PASS

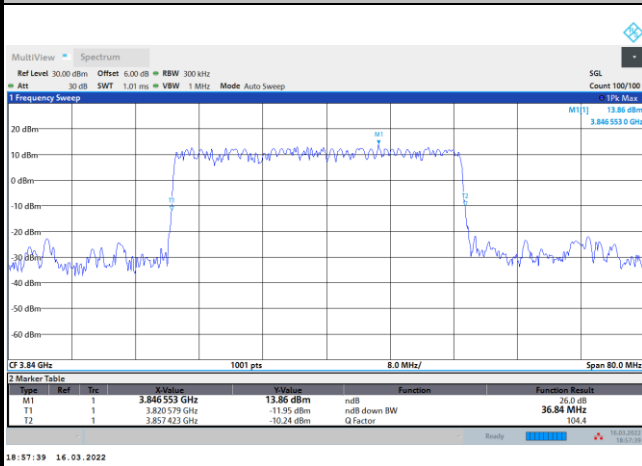
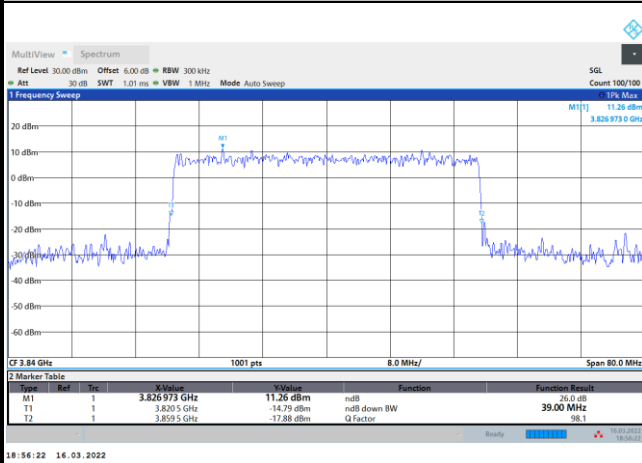
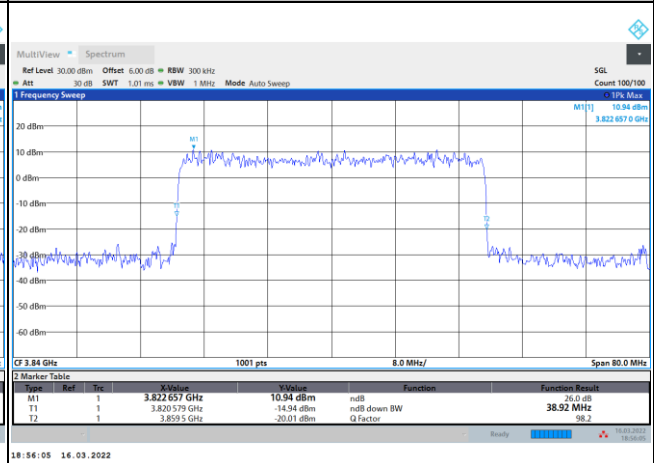
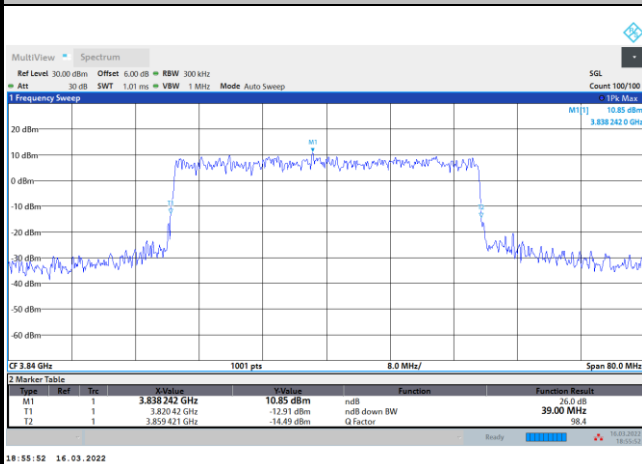
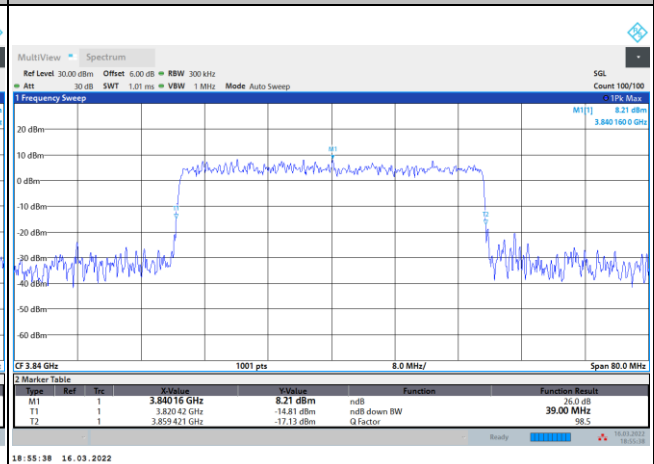
FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

QPSK

16QAM

64QAM

256QAM


**26dB Bandwidth**

Mode	FR1 n77 : 26dB BW(MHz) / DFT-S OFDM							
BW	20MHz	30MHz	40MHz	50MHz	60MHz	70MHz	80MHz	90MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	18.70	-	36.84	48.25	60.66	-	79.92	89.91
BW	100MHz							
Mod.	PI/2 BPSK							
Middle CH	99.70							

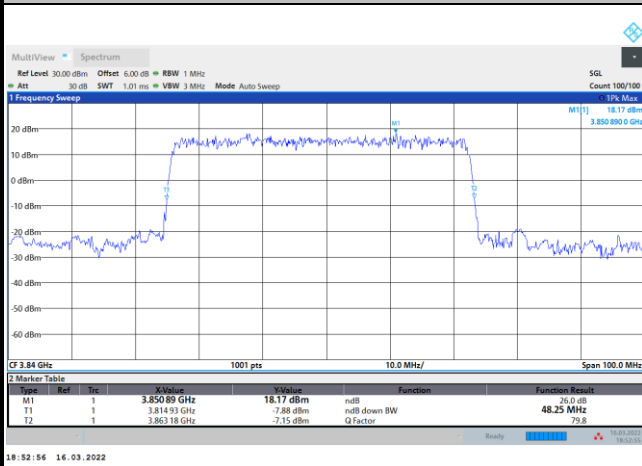
Mode	FR1 n77 : 26dB BW(MHz) / CP OFDM							
BW	20MHz		30MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	19.02	19.10	-	-	39.00	38.92	50.15	50.15
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	19.10	19.02	-	-	39.00	39.00	50.15	50.05
BW	60MHz		70MHz		80MHz		90MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	60.66	60.54	-	-	80.40	80.40	90.45	90.27
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	60.42	60.66	-	-	80.40	80.24	90.27	90.45
BW	100MHz							
Mod.	QPSK	16QAM						
Middle CH	100.70	100.50						
Mod.	64QAM	256QAM						
Middle CH	100.50	100.70						

FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


FR1 n77 / 40MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


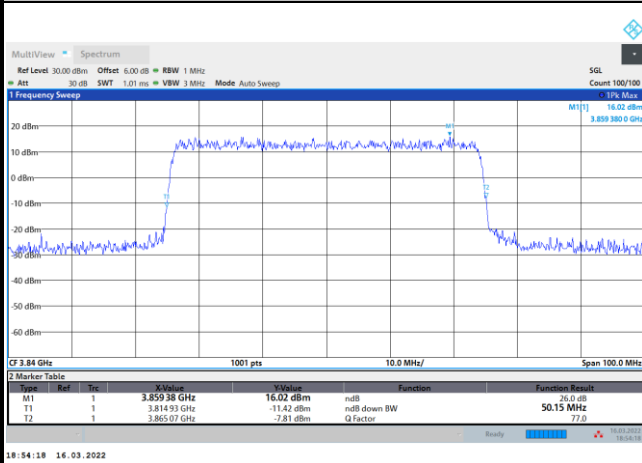
FR1 n77 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

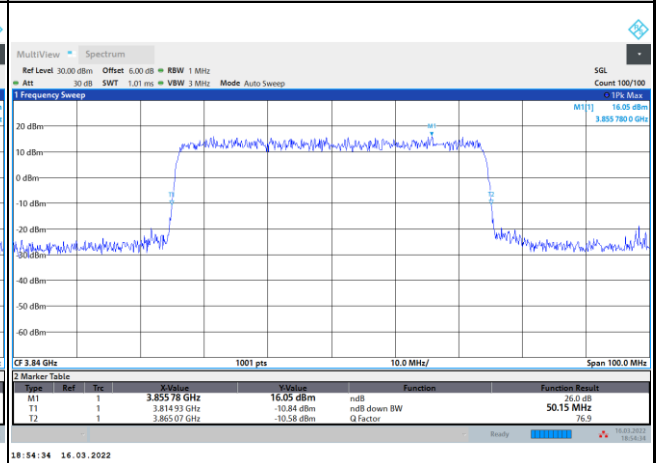


FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB

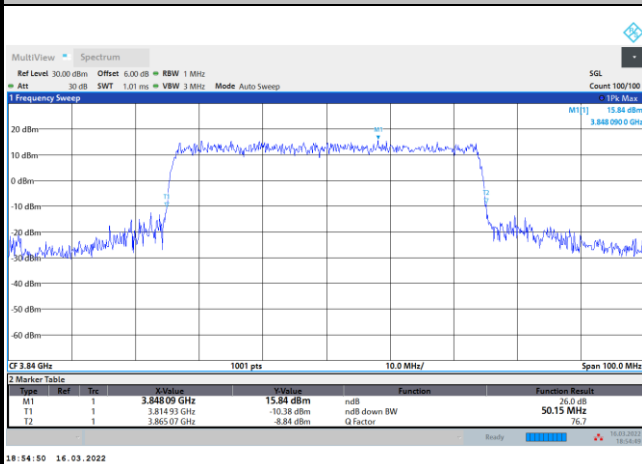
QPSK



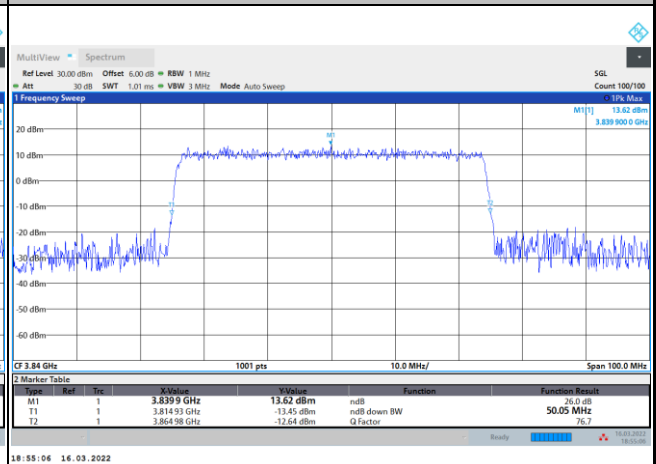
16QAM



64QAM

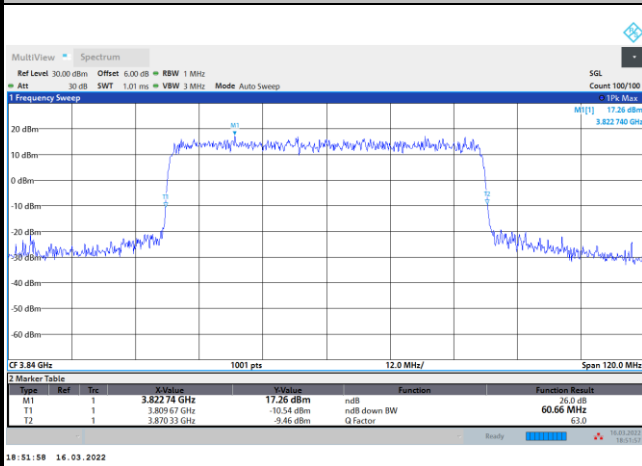


256QAM



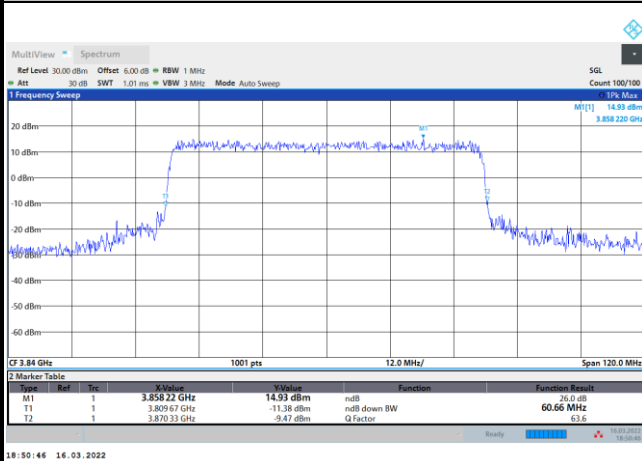
FR1 n77 / 60MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

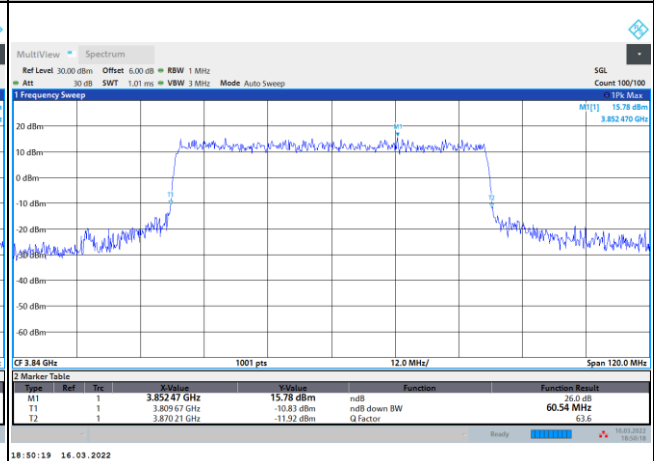


FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

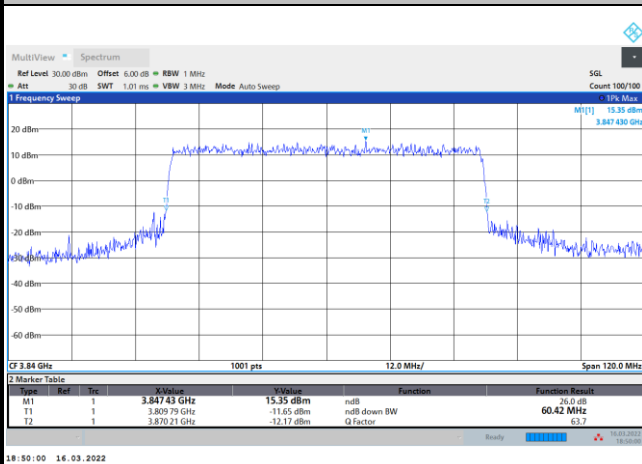
QPSK



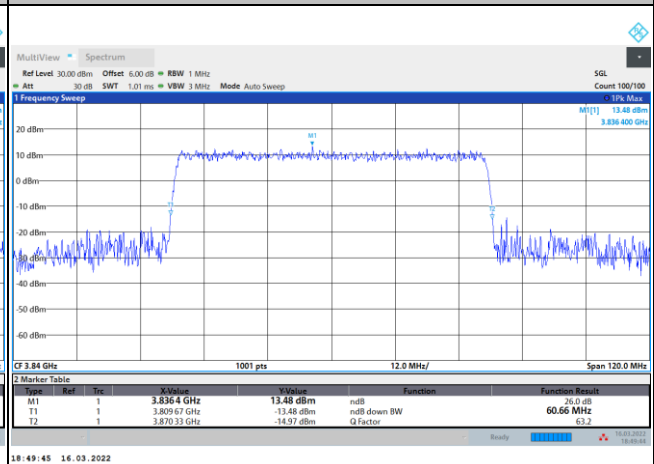
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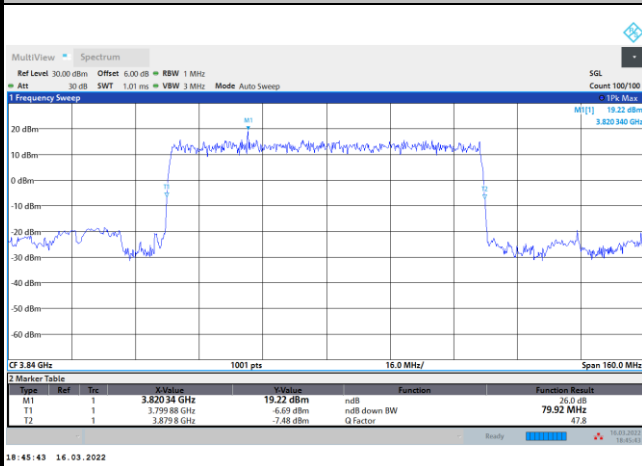
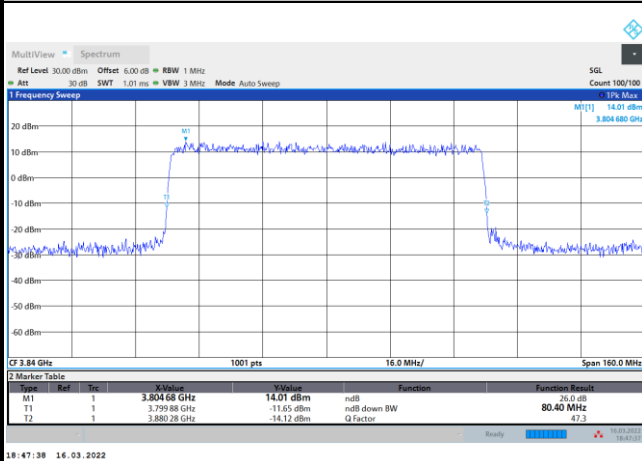
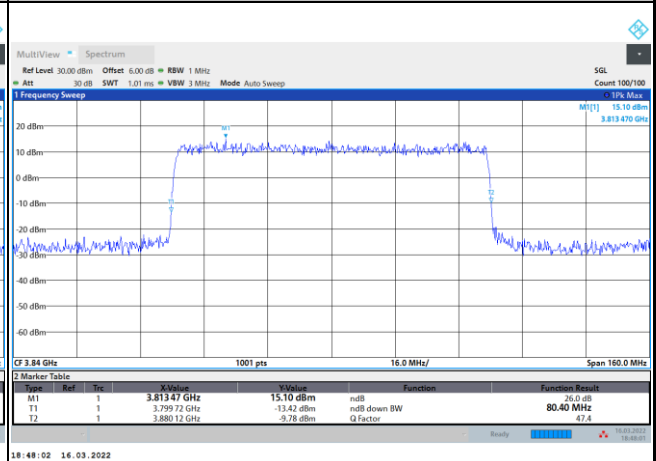
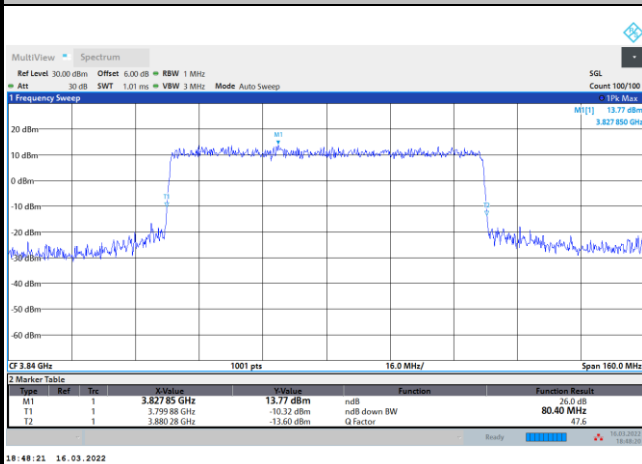
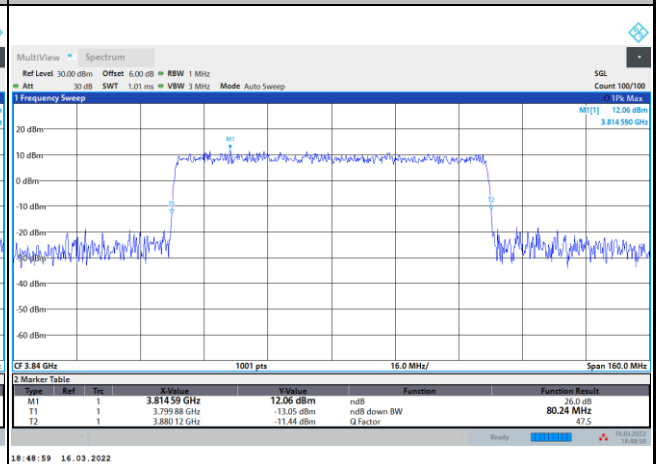


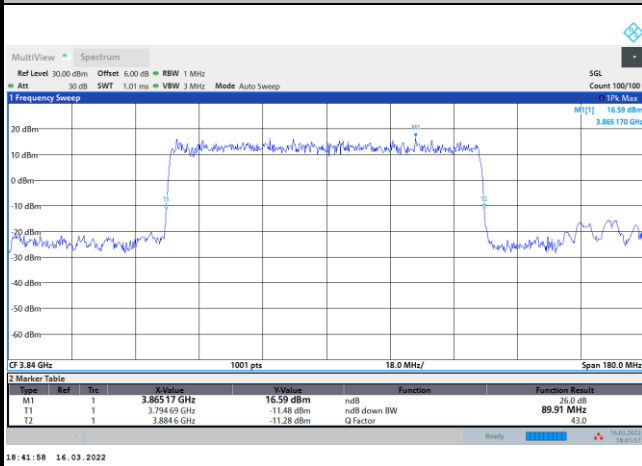
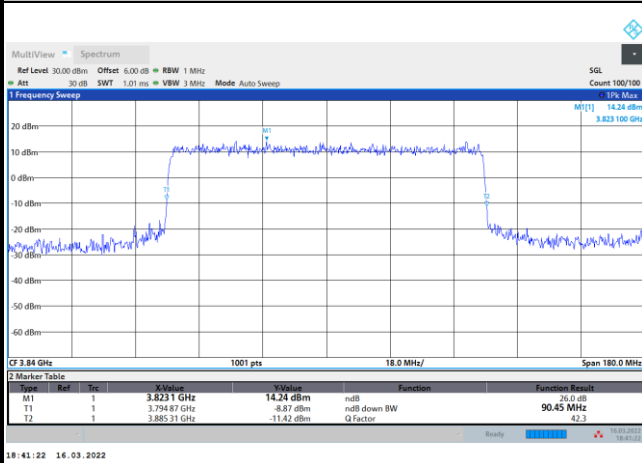
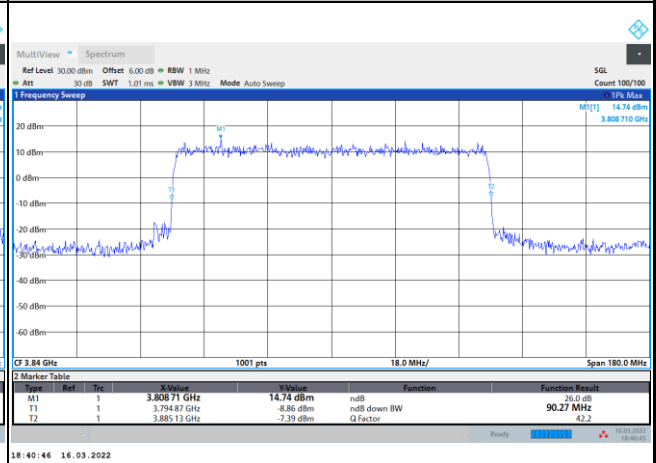
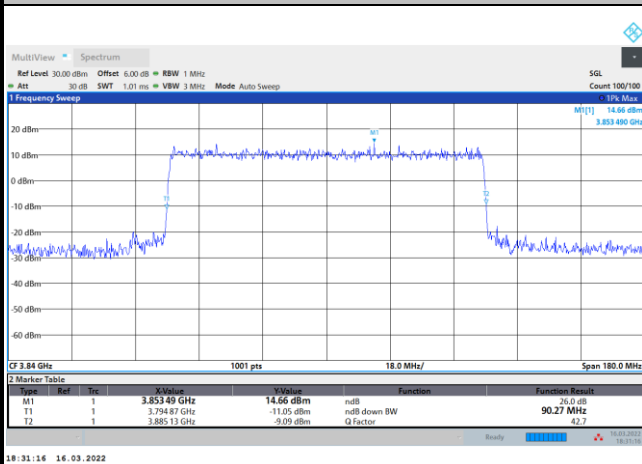
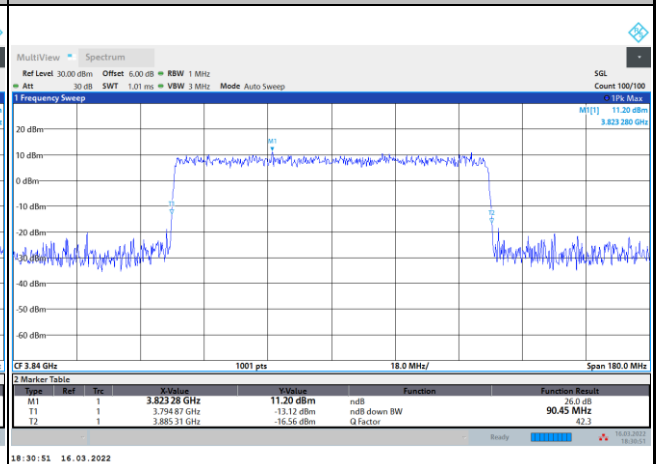
64QAM

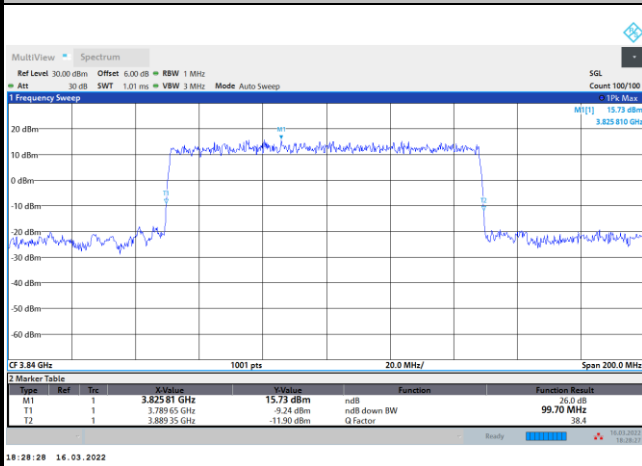
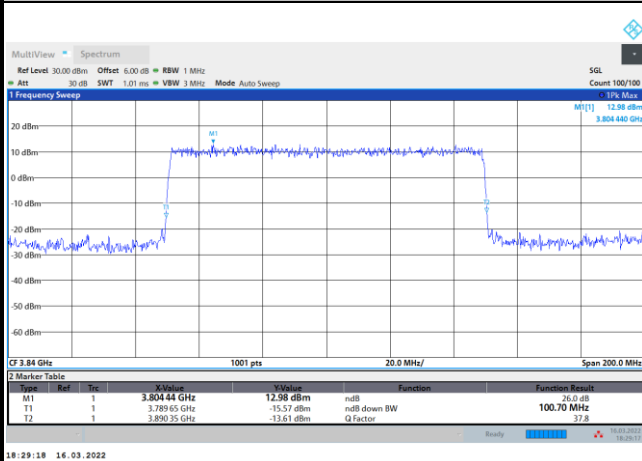
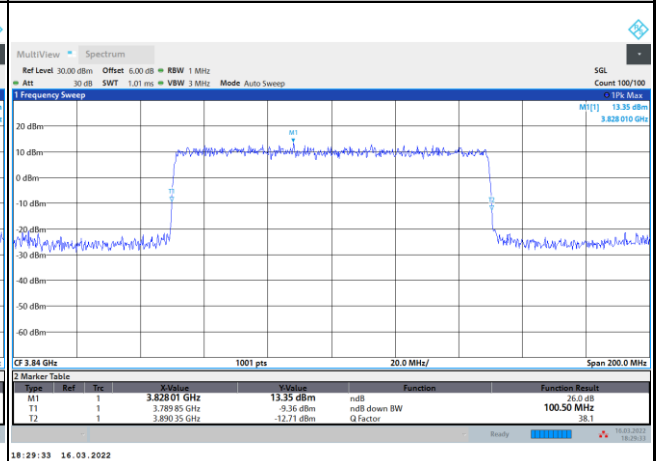
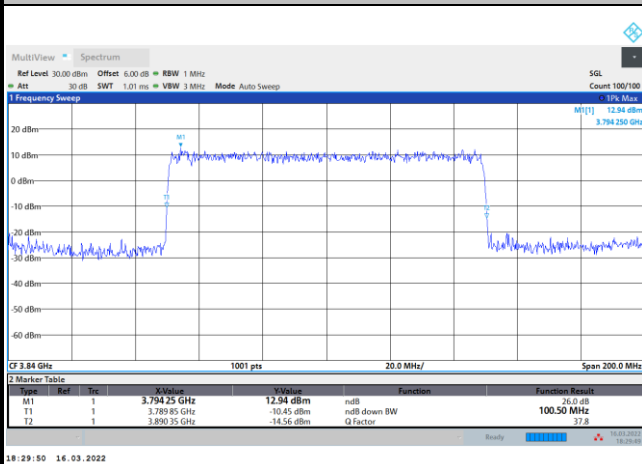
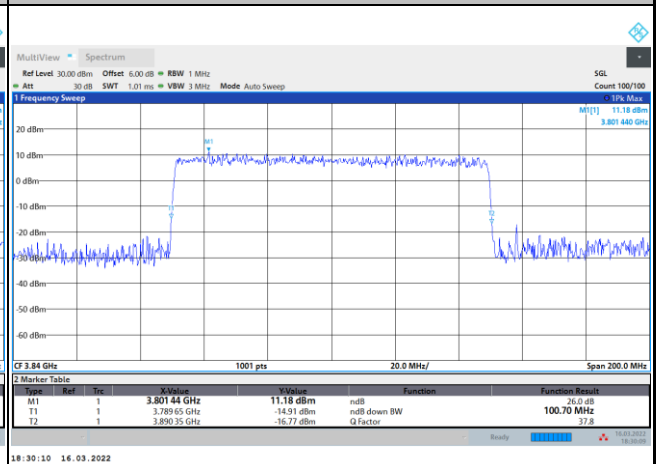


256QAM



FR1 n77 / 80MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


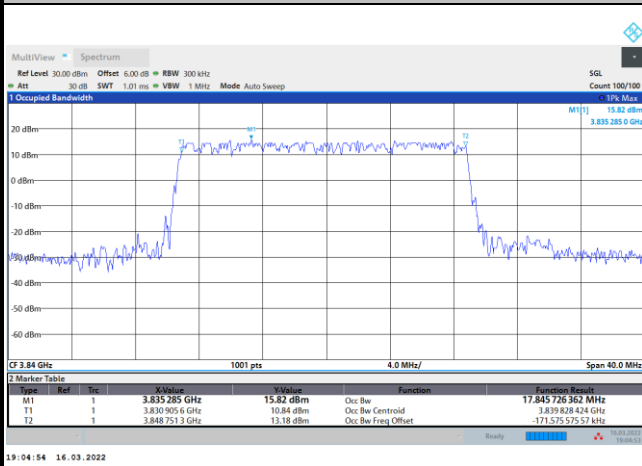
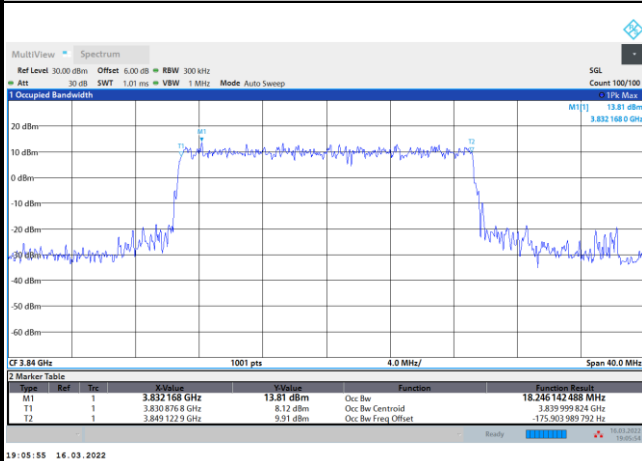
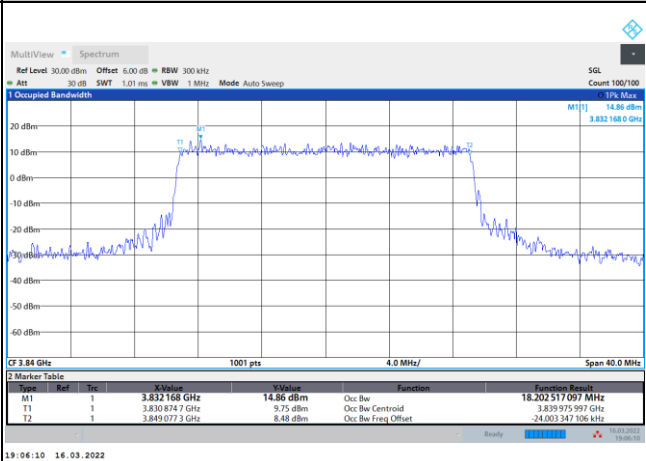
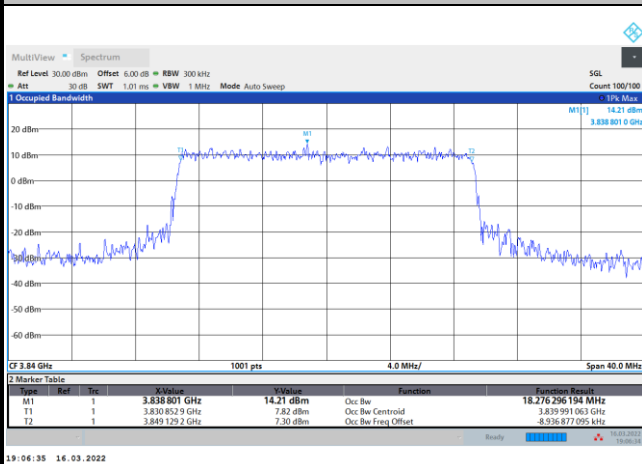
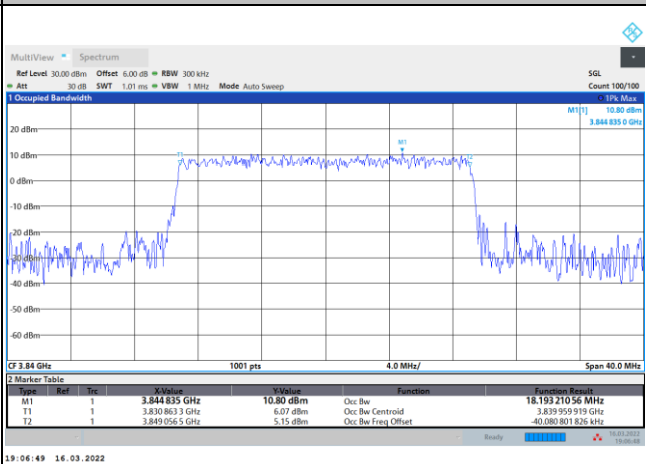
FR1 n77 / 90MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


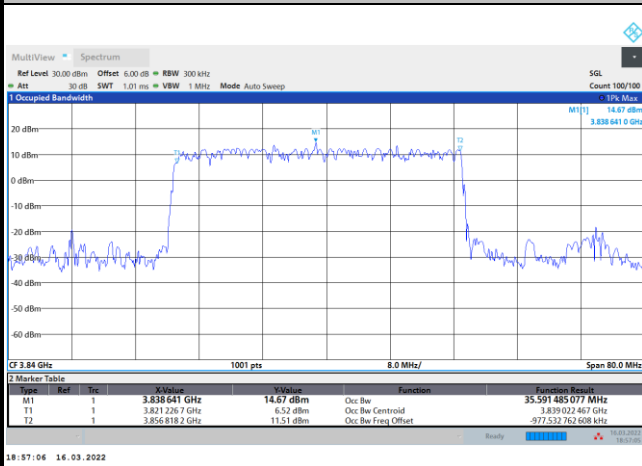
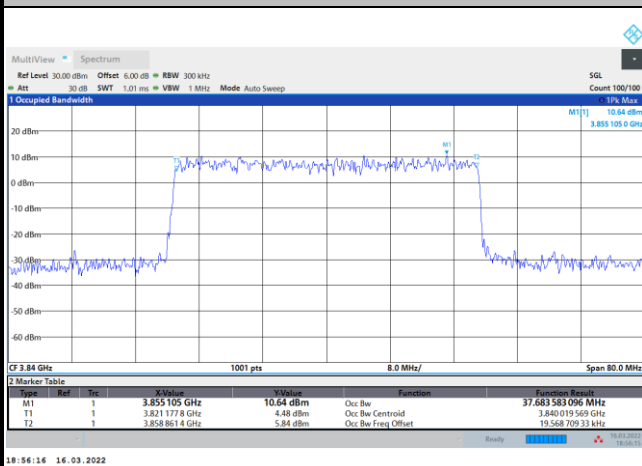
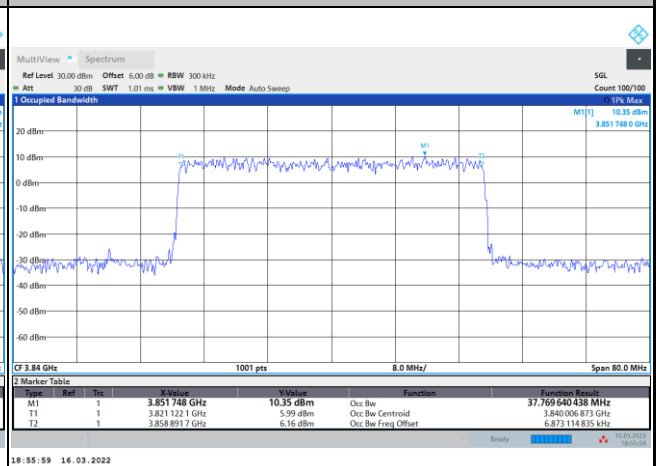
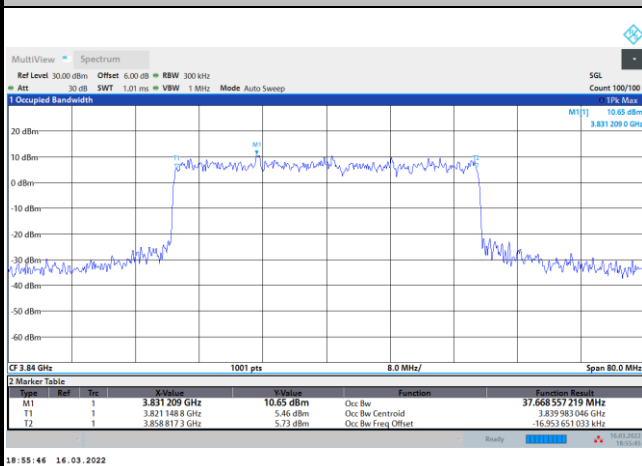
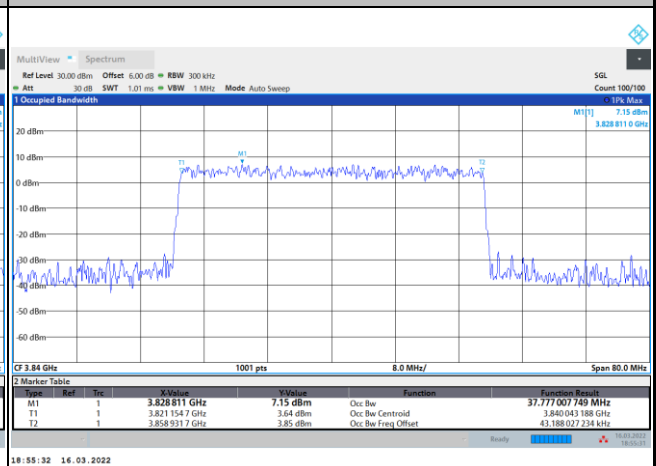
FR1 n77 / 100MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n77 / 100MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


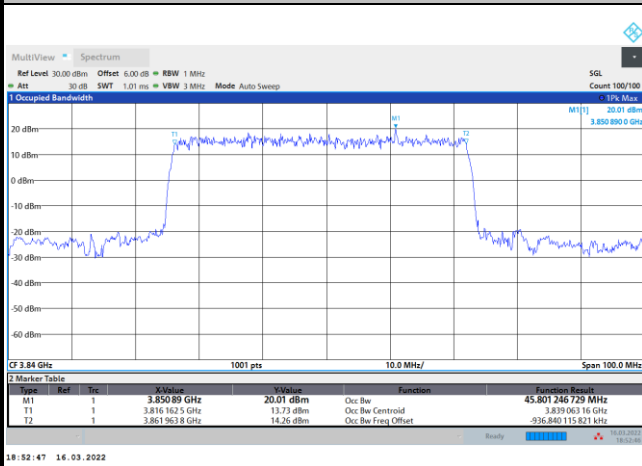
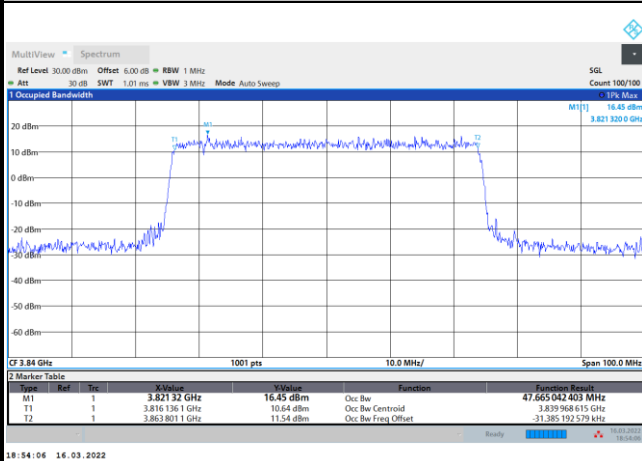
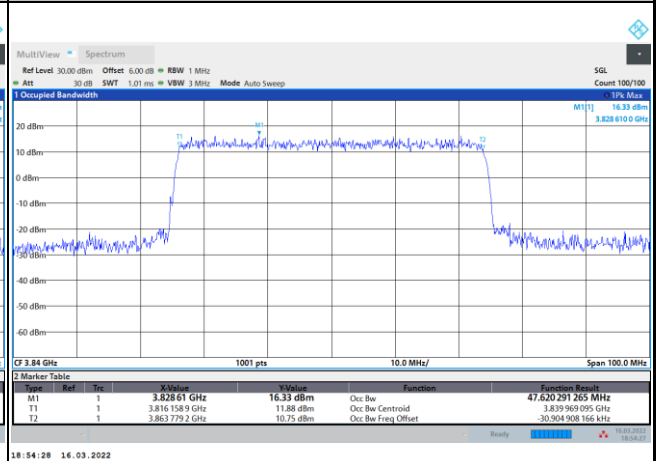
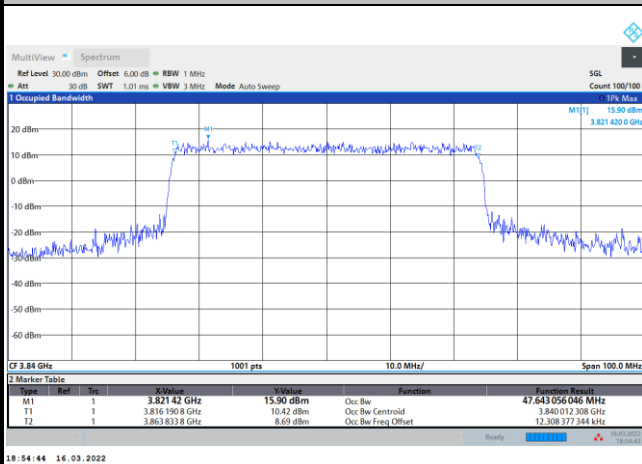
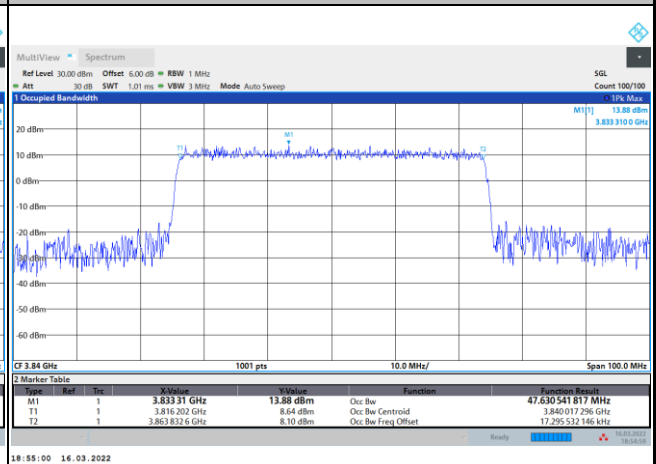
Occupied Bandwidth

Mode	FR1 n77 : OB BW(MHz) / DFT-S OFDM							
BW	20MHz	30MHz	40MHz	50MHz	60MHz	70MHz	80MHz	90MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	17.84	-	35.59	45.80	57.99	-	77.02	86.62
BW	100MHz							
Mod.	PI/2 BPSK							
Middle CH	96.17							

Mode	FR1 n77 : OB BW(MHz) / CP OFDM							
BW	20MHz		30MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	18.24	18.20	-	-	37.68	37.76	47.66	47.62
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	18.27	18.19	-	-	37.66	37.77	47.64	47.63
BW	60MHz		70MHz		80MHz		90MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	57.90	57.93	-	-	77.36	77.28	87.33	87.36
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	57.76	57.89	-	-	77.35	77.42	87.56	87.25
BW	100MHz							
Mod.	QPSK	16QAM						
Middle CH	97.43	97.19						
Mod.	64QAM	256QAM						
Middle CH	97.36	97.32						

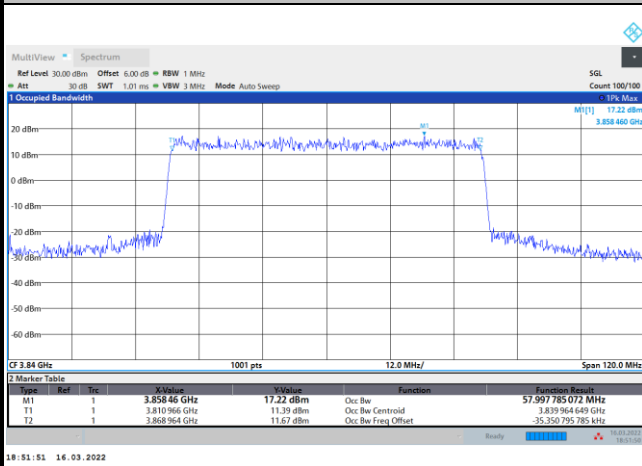
FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


FR1 n77 / 40MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


FR1 n77 / 50MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


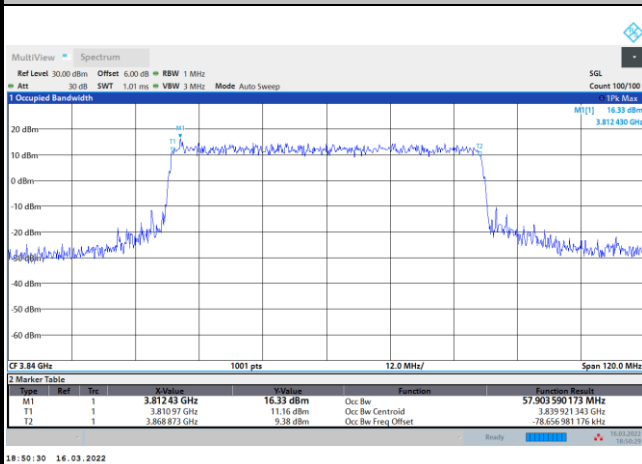
FR1 n77 / 60MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

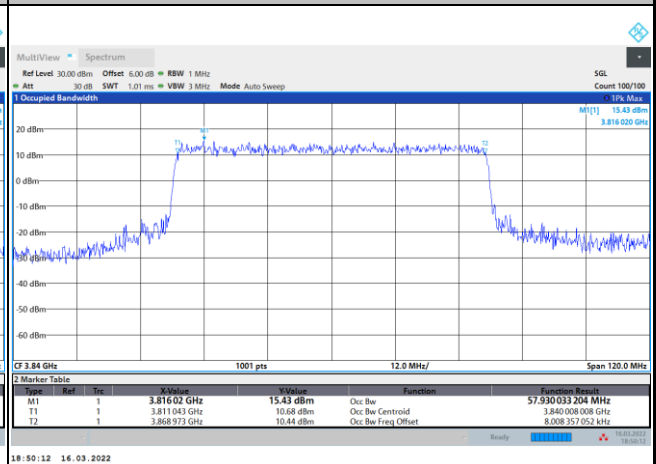


FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

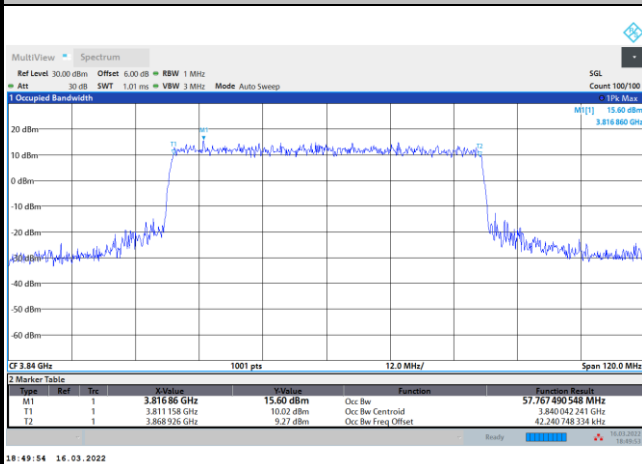
QPSK



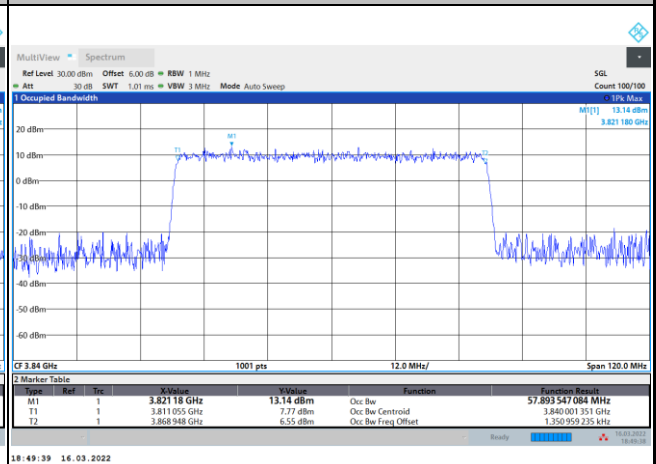
16QAM

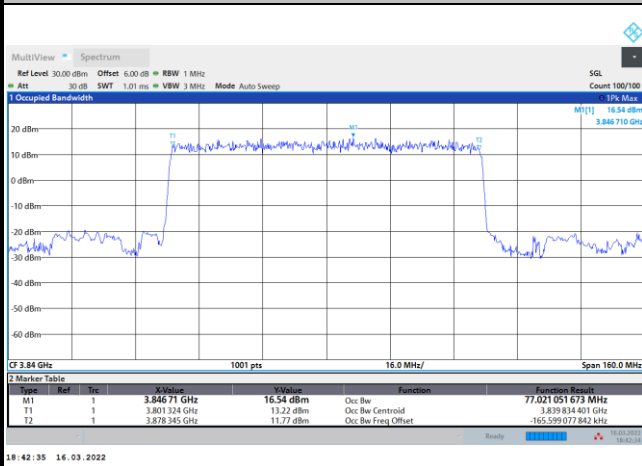
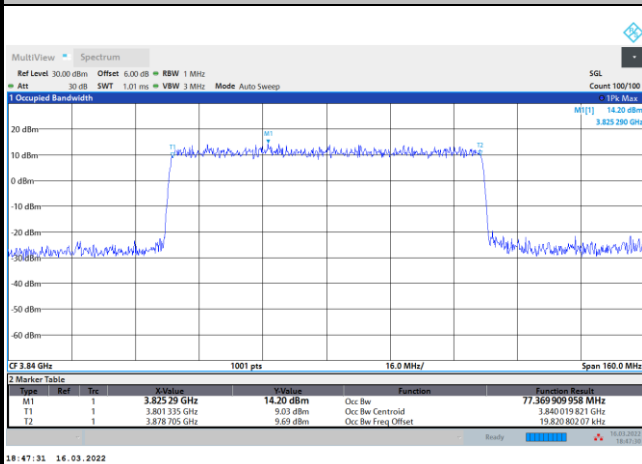
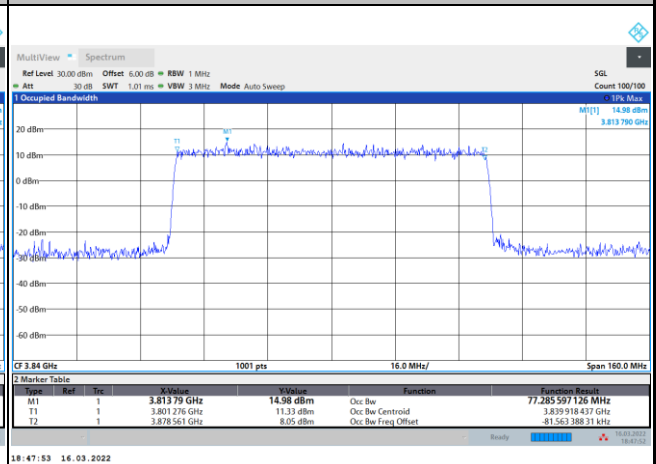
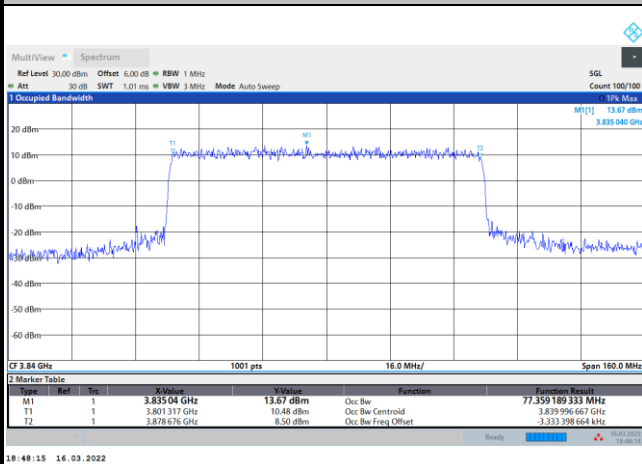
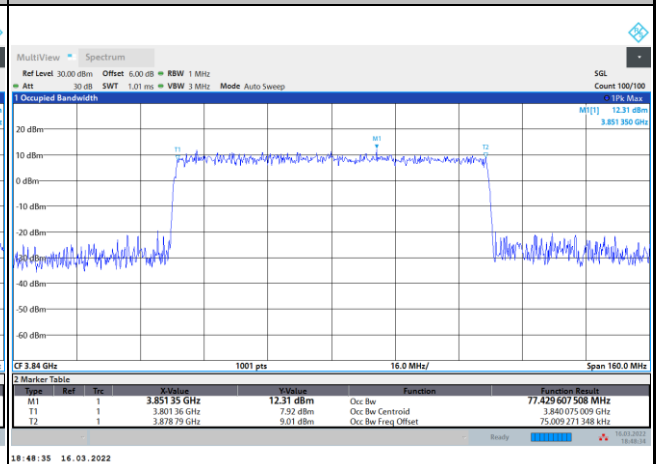


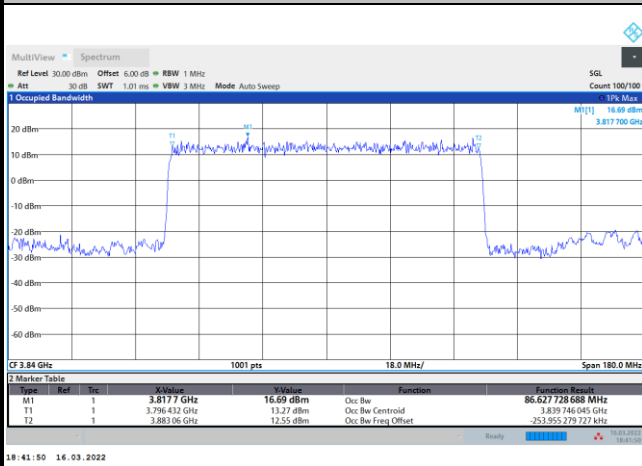
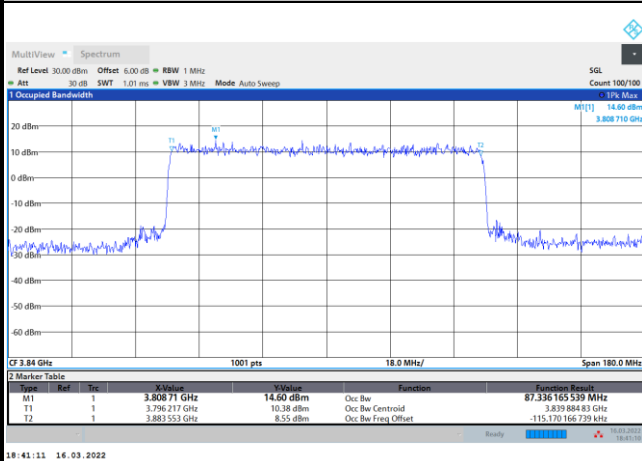
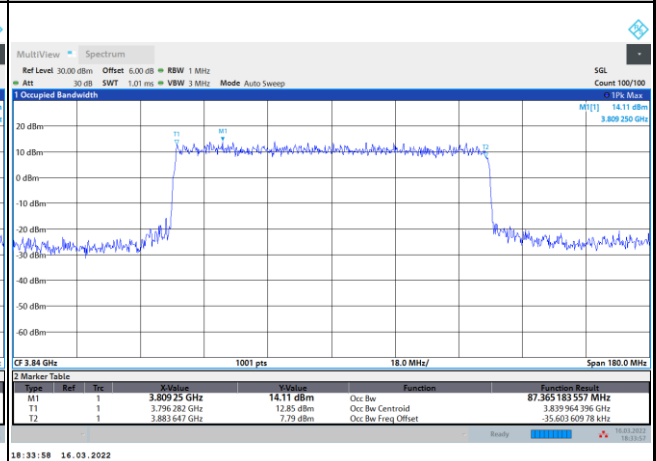
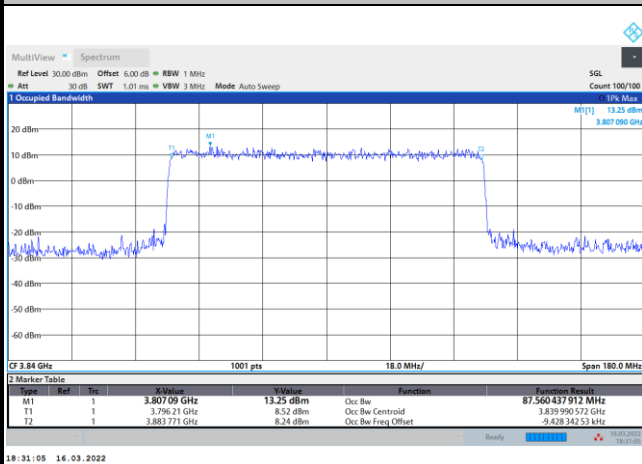
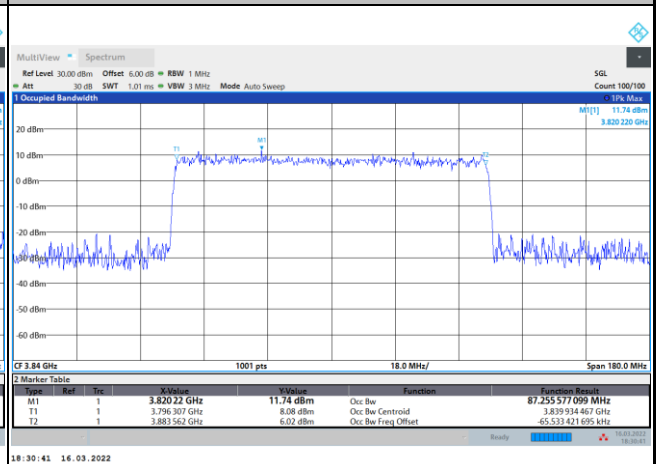
64QAM

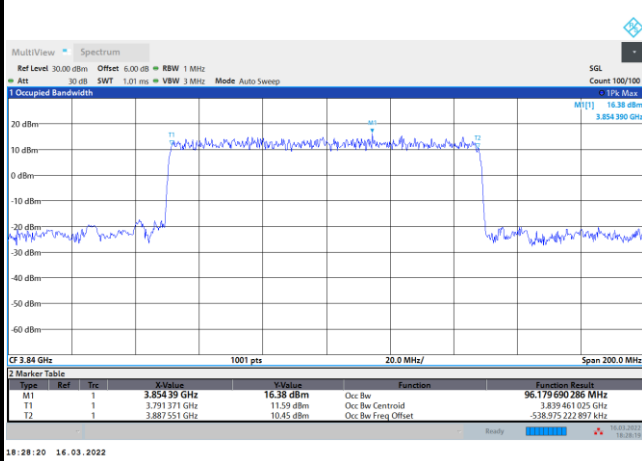
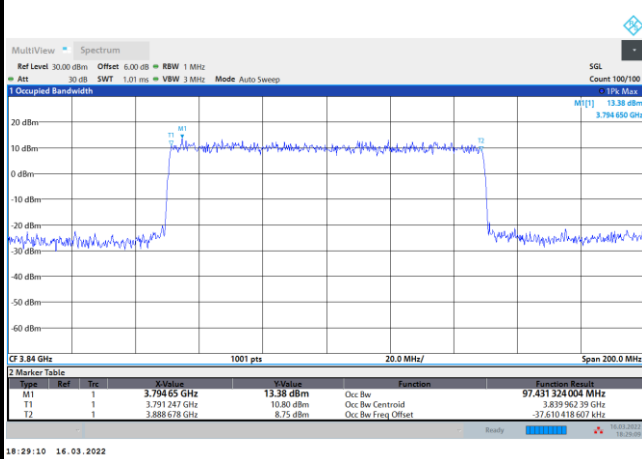
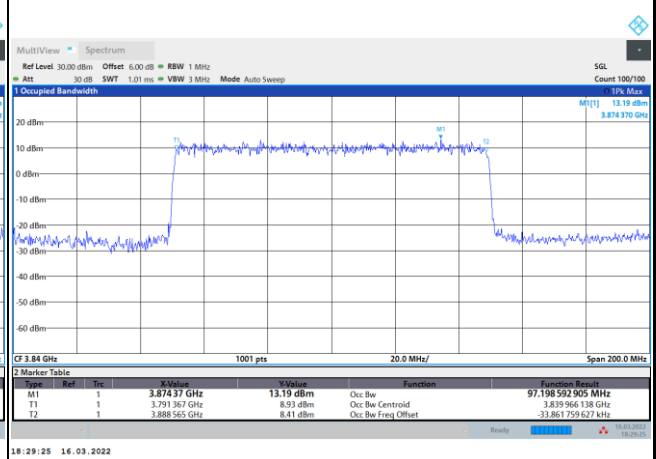
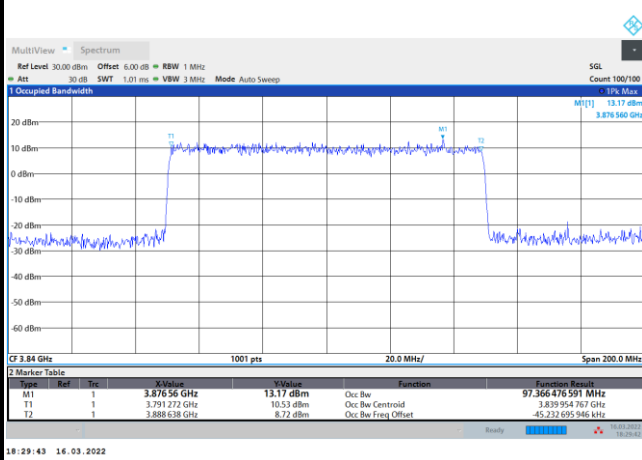
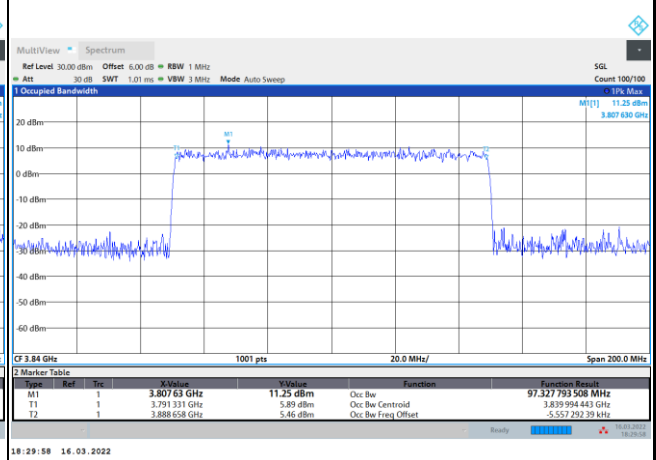


256QAM



FR1 n77 / 80MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


FR1 n77 / 90MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


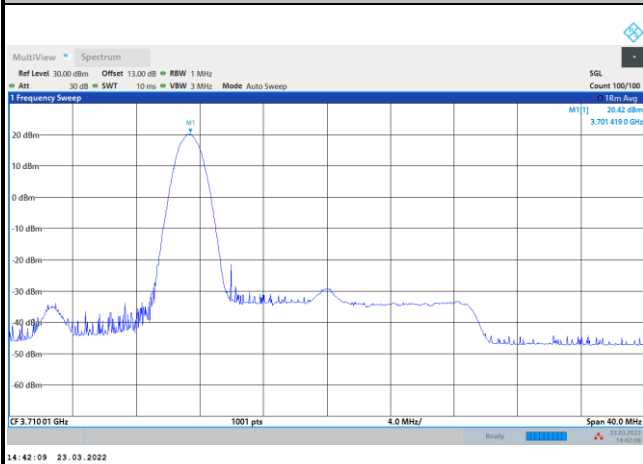
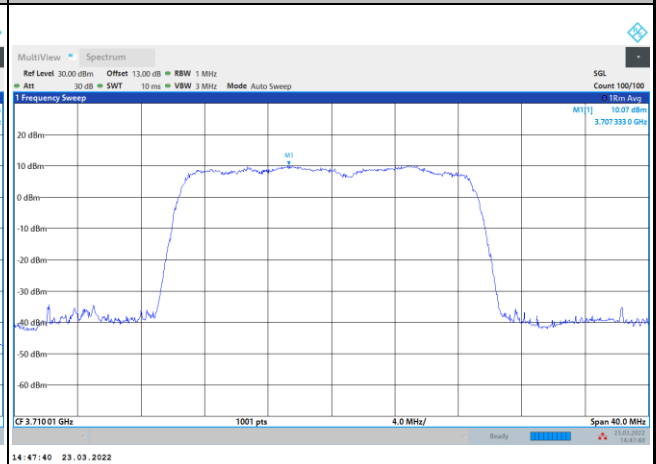
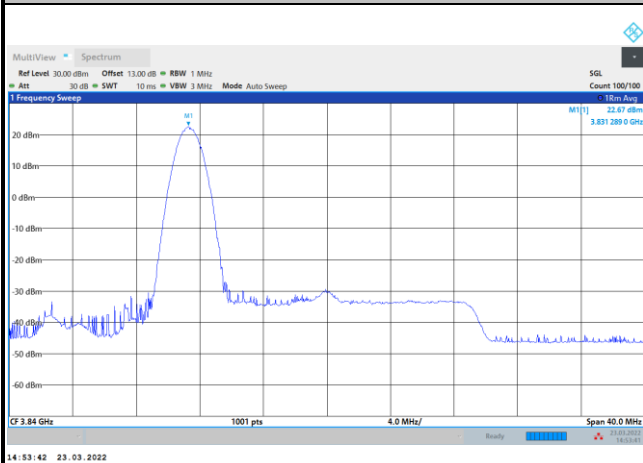
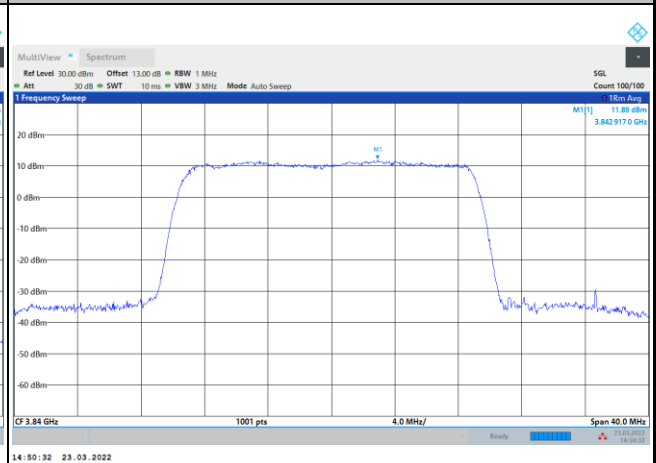
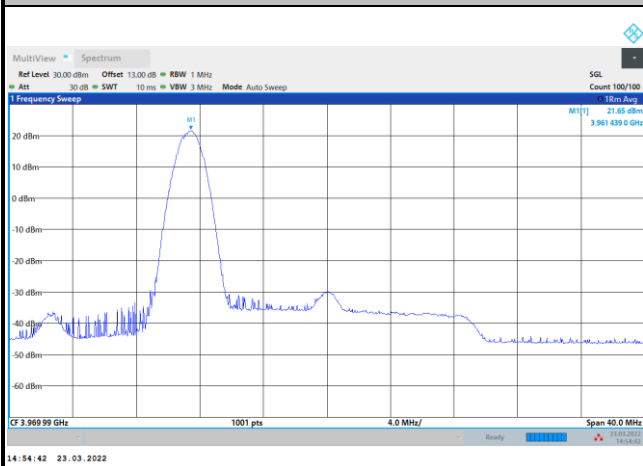
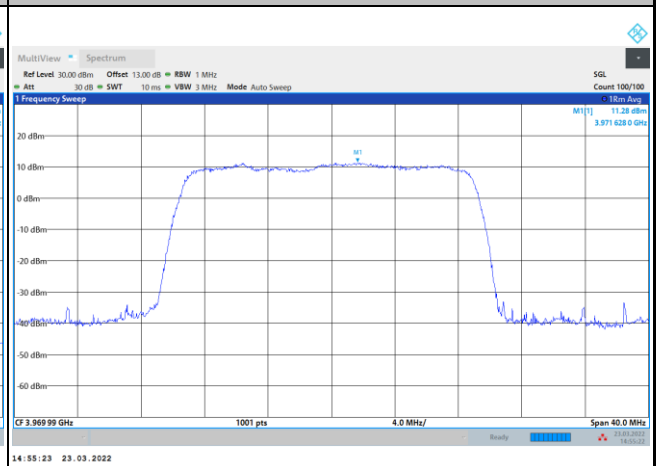
FR1 n77 / 100MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n77 / 100MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


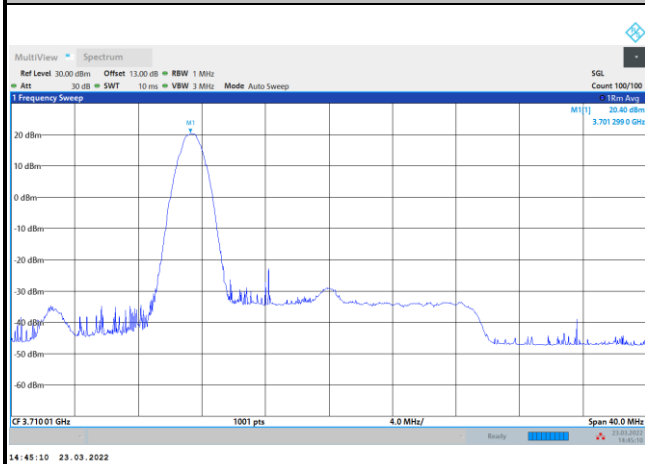
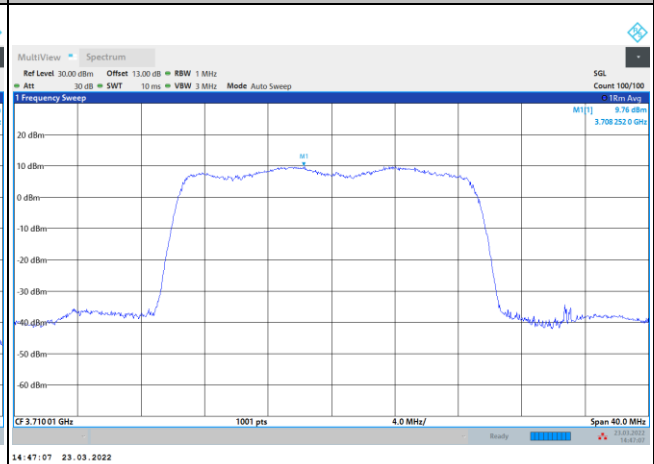
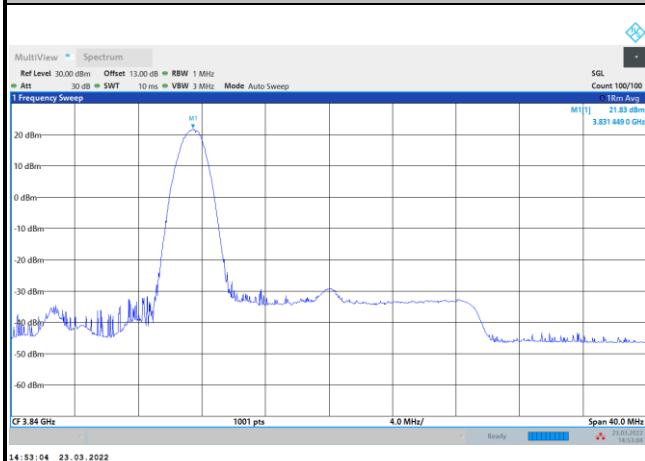
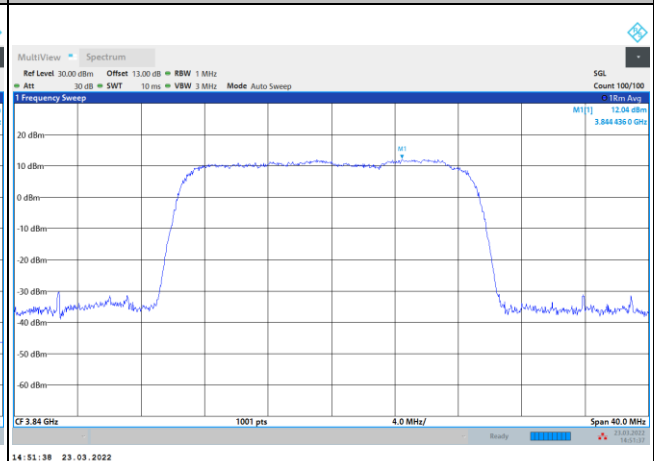
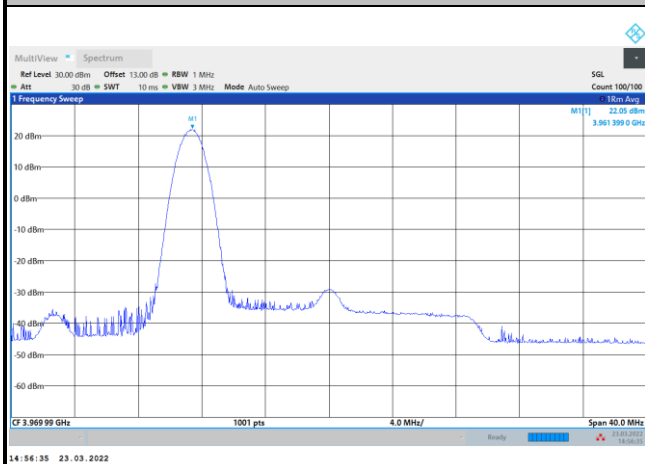
EIRP Power Density

Mode	FR1 n77 : Conducted Power Density (dBm/MHz)											
BW	20MHz				30MHz				40MHz			
Mod.	PI/2 BPSK 1RB1	PI/2 BPSK Full	QPSK 1RB1	QPSK Full	PI/2 BPSK 1RB1	PI/2 BPSK Full	QPSK 1RB1	QPSK Full	PI/2 BPSK 1RB1	PI/2 BPSK Full	QPSK 1RB1	QPSK Full
Lowest CH	20.42	10.07	20.40	9.76	-	-	-	-	18.81	7.64	21.40	7.15
Middle CH	22.67	11.89	21.83	12.04	-	-	-	-	22.26	9.63	22.78	8.70
Highest CH	21.65	11.28	22.05	10.68	-	-	-	-	21.17	8.29	20.74	7.91
BW	50MHz				60MHz				70MHz			
Mod.	PI/2 BPSK 1RB1	PI/2 BPSK Full	QPSK 1RB1	QPSK Full	PI/2 BPSK 1RB1	PI/2 BPSK Full	QPSK 1RB1	QPSK Full	PI/2 BPSK 1RB1	PI/2 BPSK Full	QPSK 1RB1	QPSK Full
Lowest CH	21.78	6.19	19.58	5.55	21.24	5.37	16.58	5.27	-	-	-	-
Middle CH	21.15	7.82	23.17	8.27	20.71	7.76	22.41	6.15	-	-	-	-
Highest CH	20.68	7.65	21.59	7.05	22.08	8.35	21.86	7.10	-	-	-	-
BW	80MHz				90MHz				100MHz			
Mod.	PI/2 BPSK 1RB1	PI/2 BPSK Full	QPSK 1RB1	QPSK Full	PI/2 BPSK 1RB1	PI/2 BPSK Full	QPSK 1RB1	QPSK Full	PI/2 BPSK 1RB1	PI/2 BPSK Full	QPSK 1RB1	QPSK Full
Lowest CH	19.45	3.66	22.07	3.70	21.36	4.14	18.88	2.64	19.28	3.59	20.15	2.60
Middle CH	20.45	5.50	20.99	5.06	22.00	5.06	21.40	4.64	22.35	4.74	23.17	4.55
Highest CH	21.63	7.02	22.42	6.53	20.10	5.63	23.40	5.02	21.14	6.16	22.56	4.69



Mode	FR1 n77 : EIRP Power Density (W /MHz)											
BW	20MHz				30MHz				40MHz			
Mod.	PI/2 BPSK 1RB1	PI/2 BPSK Full	QPSK 1RB1	QPSK Full	PI/2 BPSK 1RB1	PI/2 BPSK Full	QPSK 1RB1	QPSK Full	PI/2 BPSK 1RB1	PI/2 BPSK Full	QPSK 1RB1	QPSK Full
Lowest CH	2.3550	0.2173	2.3442	0.2023	-	-	-	-	1.6255	0.1242	2.9512	0.1109
Middle CH	3.9537	0.3304	3.2584	0.3420	-	-	-	-	3.5975	0.1963	4.0551	0.1585
Highest CH	3.1261	0.2871	3.4277	0.2500	-	-	-	-	2.7990	0.1442	2.5351	0.1321
BW	50MHz				60MHz				70MHz			
Mod.	PI/2 BPSK 1RB1	PI/2 BPSK Full	QPSK 1RB1	QPSK Full	PI/2 BPSK 1RB1	PI/2 BPSK Full	QPSK 1RB1	QPSK Full	PI/2 BPSK 1RB1	PI/2 BPSK Full	QPSK 1RB1	QPSK Full
Lowest CH	3.2211	0.0889	1.9409	0.0767	2.8445	0.0736	0.9727	0.0719	-	-	-	-
Middle CH	2.7861	0.1294	4.4361	0.1435	2.5177	0.1276	3.7239	0.0881	-	-	-	-
Highest CH	2.5003	0.1245	3.0832	0.1084	3.4514	0.1462	3.2810	0.1096	-	-	-	-
BW	80MHz				90MHz				100MHz			
Mod.	PI/2 BPSK 1RB1	PI/2 BPSK Full	QPSK 1RB1	QPSK Full	PI/2 BPSK 1RB1	PI/2 BPSK Full	QPSK 1RB1	QPSK Full	PI/2 BPSK 1RB1	PI/2 BPSK Full	QPSK 1RB1	QPSK Full
Lowest CH	1.8836	0.0497	3.4435	0.0501	2.9242	0.0555	1.6520	0.0393	1.8113	0.0489	2.2131	0.0389
Middle CH	2.3714	0.0759	2.6853	0.0685	3.3884	0.0685	2.9512	0.0622	3.6728	0.0637	4.4361	0.0610
Highest CH	3.1117	0.1076	3.7325	0.0962	2.1878	0.0782	4.6774	0.0679	2.7797	0.0883	3.8548	0.0630
Antenna Gain	13.3 dBi											
Limit	1640W / MHz											
Result	Pass											

FR1 n77 / 20MHz / DFT-S OFDM / PI/2 BPSK
Lowest PSD / 1RB1

Lowest PSD / Full

Middle PSD / 1RB1

Middle PSD / Full

Highest PSD / 1RB1

Highest PSD / Full


FR1 n77 / 20MHz / DFT-S OFDM / PI/2 QPSK
Lowest PSD / 1RB1

Lowest PSD / Full

Middle PSD / 1RB1

Middle PSD / Full

Highest PSD / 1RB1

Highest PSD / Full
