



# TEST REPORT

## No. I21Z62033-EMC01

for

**Reliance Communications LLC**

**Orbic AirSurf 5G UW**

**Model Name: R141TL5**

**FCC ID: 2ABGH-R141TL5**

with

**Hardware Version: R141-REV12**

**Software Version: ORB141TL5\_V1.1.9\_SVZ**

**Issued Date: 2021-12-01**

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I21Z62033-EMC01	Rev.0	1 <sup>st</sup> edition	2021-12-01

Note: the latest revision of the test report supersedes all previous version.

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## **1. Test Laboratory**

### **1.1. Introduction & Accreditation**

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0 and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (CN0066). The detail accreditation scope can be found on NVLAP website.

### **1.2. Testing Location**

Location 1: CTTL (huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,  
P. R. China 100191

### 1.3. Testing Environment

Normal Temperature: 15-35°C  
Relative Humidity: 20-75%

### 1.4. Project Data

Testing Start Date: 2021-10-18  
Testing End Date: 2021-11-04

### 1.5. Signature



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Zhang Ying  
(Prepared this test report)



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An Hui  
(Reviewed this test report)



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Zhang Xia  
(Approved this test report)



## **2. Client Information**

### **2.1. Applicant Information**

Company Name: Reliance Communications LLC  
Address /Post: 91 Colin Drive, Unit 1, HOLBROOK, New York 11741, United States  
Contact: Saqib Ghouri  
Email: Saqib.Ghouri@reliance.us  
Telephone: +1 631-240-8400  
Fax: /

### **2.2. Manufacturer Information**

Company Name: Unimaxcomm  
Address /Post: Room 602, Floor 6th, Building B, Software Park T3,Hi-Tech Park  
South, Nanshan District, Shenzhen, P.R. China  
Contact: Vicky Yang  
Email: ymei@unimaxcomm.com  
Telephone: 186 8920 9065  
Fax: /

### 3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

#### 3.1. About EUT

Description	Orbic AirSurf 5G UW
Model Name	R141TL5
FCC ID	2ABGH-R141TL5
Antenna	Embedded
Output power	21.54dBm maximum EIRP measured for n260
Extreme vol. Limits	6.0VDC to 8.7VDC (nominal: 7.6VDC)
Extreme temp. Tolerance	-10°C to +55°C

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL.

#### 3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
UT02	8A8B3F74-80B2-43DA-B413-3628D5260172	R141-REV1	ORB141TL5_V1.1.9_SV
a		2	Z
UT03	5D4CD2A4-747C-4F0F-BC4C-2DDFEF3C43	R141-REV1	ORB141TL5_V1.1.9_SV
a	E4	2	Z

\*EUT ID: is used to identify the test sample in the lab internally.

#### 3.3. Internal Identification of AE used during the test

AE ID*	Description
AE1	Battery
AE1	
Model	BTE-6002
Manufacturer	GANZHOU NOVEL BATTERY TECHNOLOGY CO.LTD
Capacitance	6000mAh
Rated Voltage	7.6V

\*AE ID: is used to identify the test sample in the lab internally.

n260

	Module 0	module1
Beam ID	147	162

n261

	Module 0	module1
Beam ID	20	154

## **4. Reference Documents**

### **4.1. Documents supplied by applicant**

EUT parameters, referring to Annex A for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

### **4.2. Reference Documents for testing**

The following documents listed in this section are referred for testing.

<b>Reference</b>	<b>Title</b>	<b>Version</b>
FCC Part 30	UPPER MICROWAVE FLEXIBLE USE SERVICE	10-1-20 Edition
ANSI C63.26	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	2015
KDB 842590	Upper Microwave Flexible Use Service v01r01	April 3, 2020



## 5. Laboratory Environment

**Semi/Full-anechoic chamber SAC-1** (23 meters × 17meters × 10meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 M
Ground system resistance	< 4
Normalised site attenuation (NSA)	< ± 4 dB, 3m/10m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio ( $S_{VSWR}$ )	Between 0 and 6 dB, from 1GHz to 18GHz

## 6. Summary Of Test Result

n260

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	2.1046, 30.202	Pass
2	Unwanted Emission(note1)	30.203	Pass
3	Frequency Stability	2.1055	Pass
4	Occupied Bandwidth	2.1049	Pass
5	Band Edge Compliance	2.1051, 30.203	Pass

Note1: The spurious emission test was performed by worst-case configuration.

n261

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	2.1046, 30.202	Pass
2	Unwanted Emission(note1)	30.203	Pass
3	Frequency Stability	2.1055	Pass
4	Occupied Bandwidth	2.1049	Pass
5	Band Edge Compliance	2.1051, 30.203	Pass

Note1: The spurious emission test was performed by worst-case configuration.

### Explanation of worst-case configuration

The worst-case scenario for all measurements is based on the output power measurement investigation results. Output power was measured on QPSK, 16QAM and 64QAM modulations. If it was found that QPSK was the worst case. All testing was performed using QPSK modulations to represent the worst case unless otherwise stated. The test results shown in the following sections represent the worst case emission.

Terms used in Verdict column

P	Pass. The EUT complies with the essential requirements in the standard.
NP	Not Performed. The test was not performed by CTTL.
NA	Not Applicable. The test was not applicable.
BR	Re-use test data from basic model report.
F	Fail. The EUT does not comply with the essential requirements in the standard.

## 7. Measurement Uncertainty

### Measurement Uncertainty:

Frequency Range	Uncertainty(dB) (k=2)
30MHz-1GHz	5.18
1GHz-18GHz	5.54
>18GHz	5.26

## 8. Test Equipment Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CAL. DUE DATE	CAL. INTERVAL
1	Signal Generator	SMF100A	104940	R&S	2021-12-09	1 year
2	Signal Generator	E8257D (60GHz)	MY59140557	Keysight	2022-01-19	1 year
3	Antenna	VULB 9163	1223	SCHWARZB ECK	2022-03-22	1 year
4	Antenna	3115	6914	ETS-Lindgre n	2022-02-03	1 year
5	Upconverter(50GHz-75G Hz)	SMZ-75	101309	R&S	2022-01-14	1 year
6	Upconverter(75GHz-110 GHz)	SMZ-110	101357	R&S	2022-01-14	1 year
7	Upconverter(110GHz-17 0GHz)/	82406B	ZEI00141	Ceyear	2022-02-04	1 year
8	Upconverter(170GHz-22 0GHz)/	82406C	ZEI00164	Ceyear	2022-02-04	1 year
9	Spectrum Analyzer	FSW67	103290	R&S	2022-02-04	1 year
10	(downconverter)Harmoni c Mixer(60GHz-90GHz)	FS-Z90	101655	R&S	2022-02-04	1 year
11	(downconverter)Harmoni c Mixer(75GHz-110GHz)	FS-Z110	101463	R&S	2022-01-19	1 year
12	(downconverter)Harmoni c Mixer(110GHz-170GHz)/	FS-Z170	101008	R&S	2022-02-17	1 year
13	(downconverter)Harmoni c Mixer(170GHz-220GHz)/	FS-Z220	101054	R&S	2021-12-14	1 year
14	Standard Gain Horn (40GHz-60GHz)	LB-19-25	J202024086	A-INFO	2022-01-14	1 year
15	Standard Gain Horn (40GHz-60GHz)	LB-19-25	J202024087	A-INFO	2022-01-14	1 year
16	Standard Gain Horn (60GHz-90GHz)	LB-12-25	J202062912	A-INFO	2022-02-17	1 year
17	Standard Gain Horn (50GHz-75GHz)	LB-15-25	J202062019	A-INFO	2021-12-14	1 year
18	Standard Gain Horn (75GHz-110GHz)	LB-10-25	J202023231	A-INFO	2022-01-27	1 year
19	Standard Gain Horn (75GHz-110GHz)	LB-10-25	J202023232	A-INFO	2022-01-27	1 year



20	Standard Gain Horn (110GHz-170GHz)	LB-6-25	J202061245	A-INFO	2022-01-27	1 year
21	Standard Gain Horn (110GHz-170GHz)	LB-6-25	J202061251	A-INFO	2022-01-27	1 year
22	Standard Gain Horn (170GHz-220GHz)	LB-5-25	J202067629	A-INFO	2022-01-27	1 year
23	Standard Gain Horn (170GHz-220GHz)	LB-5-25	J202067630	A-INFO	2022-01-27	1 year
24	DC power supply	PAS20-18	UH000695	Kikusui	2022-08-14	1 year
25	Incubator	SH-641	92009470	ESPEC	2022-02-14	1 year

## **Annex A: Measurement Results**

### **A.1 Radiated Output Power**

#### **A.1.1 Summary**

During the process of testing, the EUT was controlled via communication tester to ensure max power transmission and proper modulation.

In all cases, output power is within the specified limits.

30.202 (b) For mobile stations, the average power of the sum of all antenna elements is limited to a maximum EIRP of +43 dBm.

#### **A.1.2 Minimum Measurement Distance Evaluation**

According to KDB842590 D01, the measurements of the fundamental emission, out of band, harmonics and spurious emissions shall be made in the far field of the measurement antenna. The

far-field boundary for mmW antennas is greater than or equal to  $2D^2/\lambda$  (with D being the largest dimension of the antenna, and  $\lambda$  the wavelength of the emission). We calculate the far-field boundary and the test distance meet the requirement of standard.

#### **A.1.3 Method of Measurements**

NASI C63.26 chapter 5.5.2.1: Such radiated measurements shall use substitution methods unless a test site validated to ANSI C63.4 requirements is utilized, in which case, radiated fundamental and/or unwanted emissions can be measured using the direct radiated field strength method.

The EUT was set up for the max output power with pseudo random data modulation.

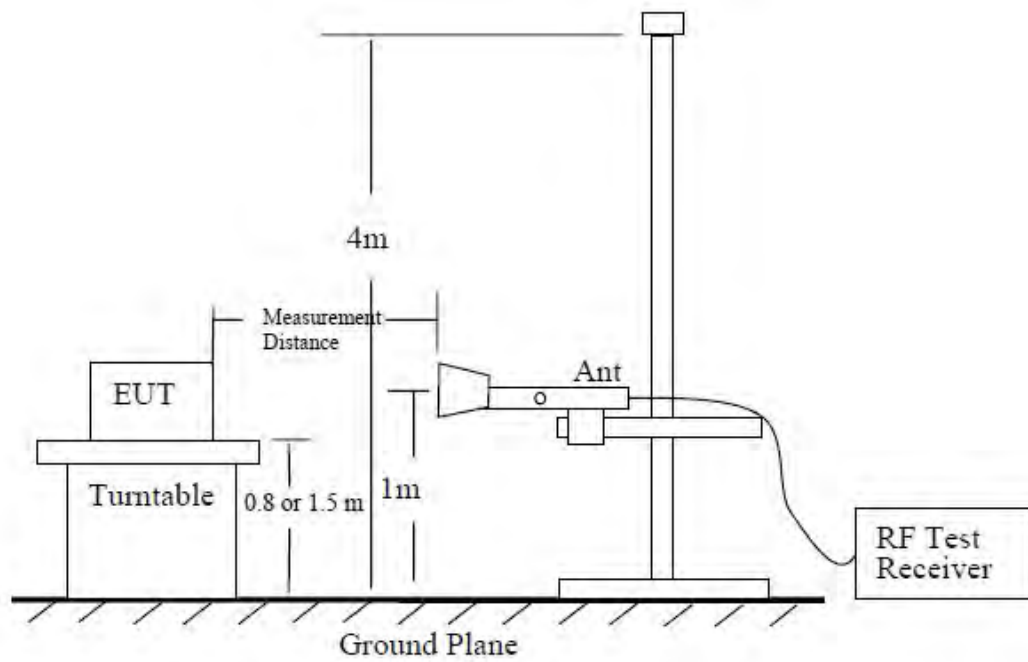
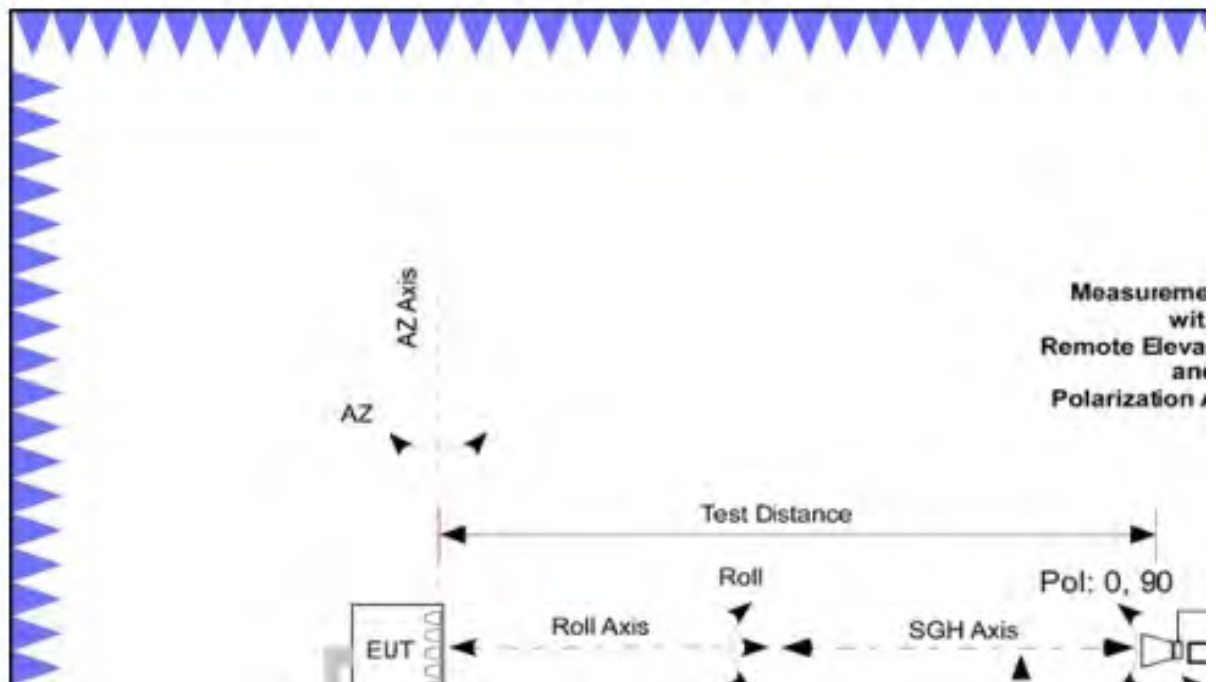
These measurements were done at 3 frequencies (bottom, middle and top of operational frequency range) for each bandwidth.

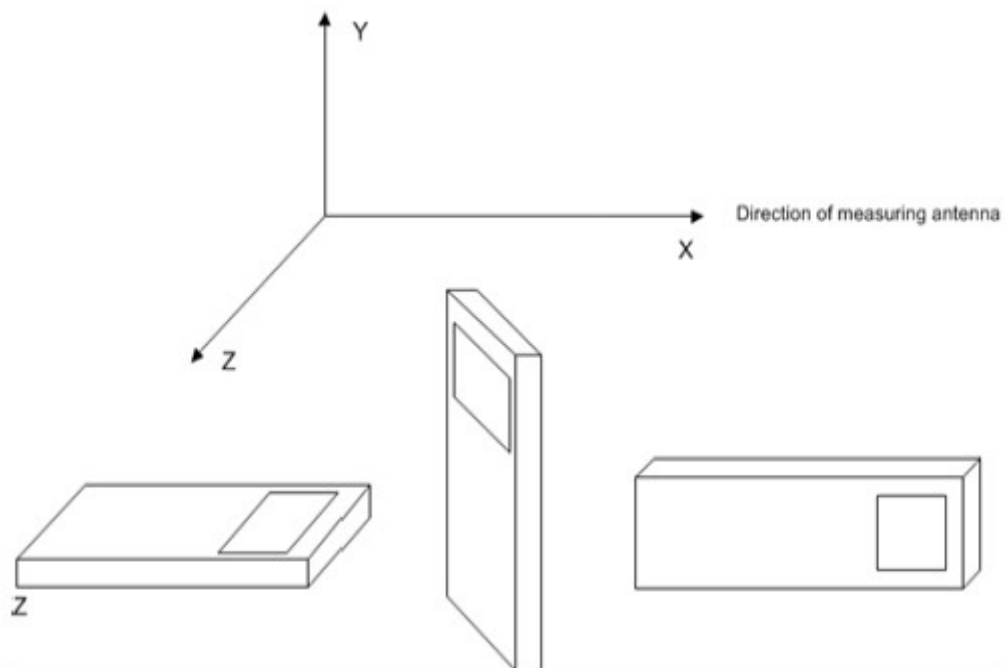
An spectrum analyzer is used to perform RF output power measurements, the fundamental condition that measurements be performed only over durations of active transmissions at maximum output power level applies. Thus, a spectrum analyzer can always be used to perform the measurement when the EUT can be configured to transmit continuously.

The EIRP measurement used integration method and the bandwidth is 100MHz.

#### **The procedure of radiated spurious emissions is as follows:**

Using the test configuration as follow, measure the radiated emissions directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits.





The emission characteristics of the EUT can be identified from the pre-scan measurement information.

Exploratory radiated measurements (pre-scans) may be performed to determine the general EUT radiated emissions characteristics and, when necessary, the EUT-to-measurement antenna orientation that produces the maximum emission amplitude. Pre-scans shall only be used to determine the emission frequencies (i.e., not amplitude levels). The information garnered from a pre-scan can then be used to perform final compliance measurements using either the substitution or direct field strength method.

For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80 cm above the reference ground plane. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e., field strength or received power). When orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25 cm.

For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table or support at a nominal height of 1.5 m above the ground plane. When maximizing the emissions from the EUT for measurement, the EUT and its transmitting antenna(s) shall be rotated through 360°. For each mode of operation to be tested, the frequency spectrum (based on findings from exploratory measurements) shall be monitored.



**Test Note:**

The average EIRP reported below is calculated by:

$$\text{EIRP(dBm)} = \text{Spectrum Analyzer Channel Power Level(dBm)} - \text{Antenna Factor(dBi)} + \text{Cable Loss(dB)} + 20\log(F) + 20\log(D) - 27.56$$

Where:

F: frequency (MHz)

D: Distance(m) = 3m

**A.1.4 Measurement Result**

Note:

We choose the worst modulation by the EIRP of middle channel, the high channel and low channel measure the EIRP only with the worst modulation.

The plots are showed from Page 21 to page 106.

n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	37025.04	10.04	/	/
		38499.96	10.88	9.75	6.69
		39975	10.02	/	/
	1RB	37025.04	12.73	/	/
		38499.96	11.45	11.12	9.93
		39975	11.04	/	/
100MHz	100% RB	37050	12.98	/	/
		38499.96	14.17	12.77	9.86
		39949.92	12.83	/	/
	1RB	37050	14.19	/	/
		38499.96	13.93	13.79	11.79
		39949.92	13.78	/	/

Note:

We choose the worst modulation by the EIRP of middle channel, the high channel and low channel measure the EIRP only with the worst modulation.

n260, Module0, SCS=120kHz,PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	37025.04	11.20	/	/
		38499.96	12.38	9.65	6.91
		39975	14.95	/	/
	1RB	37025.04	13.10	/	/
		38499.96	12.71	11.38	8.37
		39975	12.62	/	/
100MHz	100% RB	37050	13.20	/	/
		38499.96	14.94	12.99	9.86
		39949.92	12.14	/	/
	1RB	37050	15.64	/	/
		38499.96	15.51	14.00	11.68
		39949.92	14.22	/	/

Note: The worst modulation is QPSK, and we test follow setups used QPSK.

n260, Module1, SCS=120kHz,PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	37025.04	13.68	/	/
		38499.96	17.23	/	/
		39975	18.93	/	/
	1RB	37025.04	15.77	/	/
		38499.96	19.58	/	/
		39975	21.54	/	/
100MHz	100% RB	37050	14.20	/	/
		38499.96	17.55	/	/
		39949.92	18.62	/	/
	1RB	37050	16.68	/	/
		38499.96	20.97	/	/
		39949.92	20.91	/	/

Note:

We choose the worst modulation by the EIRP of middle channel, the high channel and low channel measure the EIRP only with the worst modulation.

n261, Module0, SCS=120kHz,CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27525	13.07	/	/
		27924.96	<b>13.23</b>	11.74	8.16
		28324.92	8.53	/	/
	1RB	27525	13.13	/	/
		27924.96	11.97	10.88	8.14
		28324.92	7.80	/	/
100MHz	100% RB	27550.08	15.48	/	/
		27924.96	15.72	14.59	12.64
		28299.96	14.42	/	/
	1RB	27550.08	16.78	/	/
		27924.96	16.87	15.41	12.49
		28299.96	15.69	/	/

Note:

We choose the worst modulation by the EIRP of middle channel, the high channel and low channel measure the EIRP only with the worst modulation.

n261, Module0, SCS=120kHz,PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27525	13.88	/	/
		27924.96	13.20	11.67	9.43
		28324.92	9.58	/	/
	1RB	27525	13.85	/	/
		27924.96	12.98	11.20	9.09
		28324.92	10.96	/	/
100MHz	100% RB	27550.08	17.81	/	/
		27924.96	17.90	16.20	14.23
		28299.96	17.08	/	/
	1RB	27550.08	<b>19.60</b>	/	/
		27924.96	19.43	16.81	15.92
		28299.96	18.67	/	/

Note: The worst modulation is QPSK, and we test follow setups used QPSK.

n261, Module1, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27525	9.32	/	/
		27924.96	9.19	/	/
		28324.92	5.38	/	/
	1RB	27525	10.81	/	/
		27924.96	11.22	/	/
		28324.92	7.57	/	/
100MHz	100% RB	27550.08	16.09	/	/
		27924.96	16.47	/	/
		28299.96	16.31	/	/
	1RB	27550.08	18.49	/	/
		27924.96	18.86	/	/
		28299.96	18.97	/	/

n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	38499.96	10.88	9.75	6.69

**n260, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, QPSK**



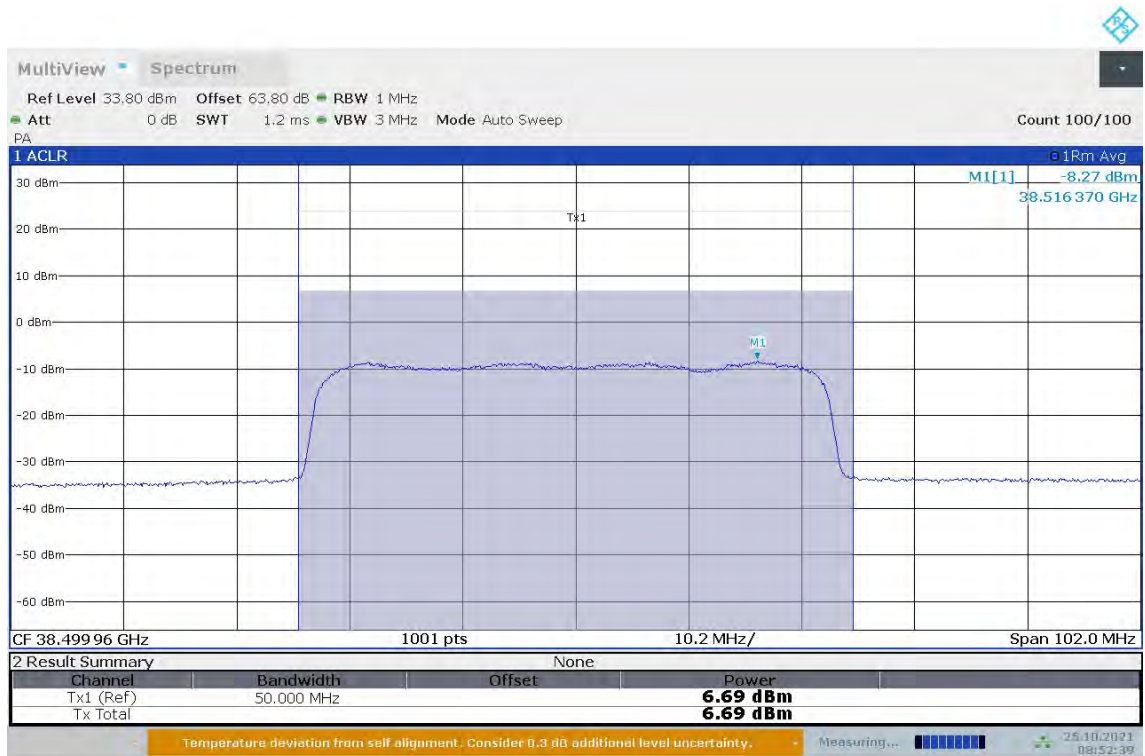
08:41:06 25.10.2021

**n260, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, 16QAM**



08:46:12 25.10.2021

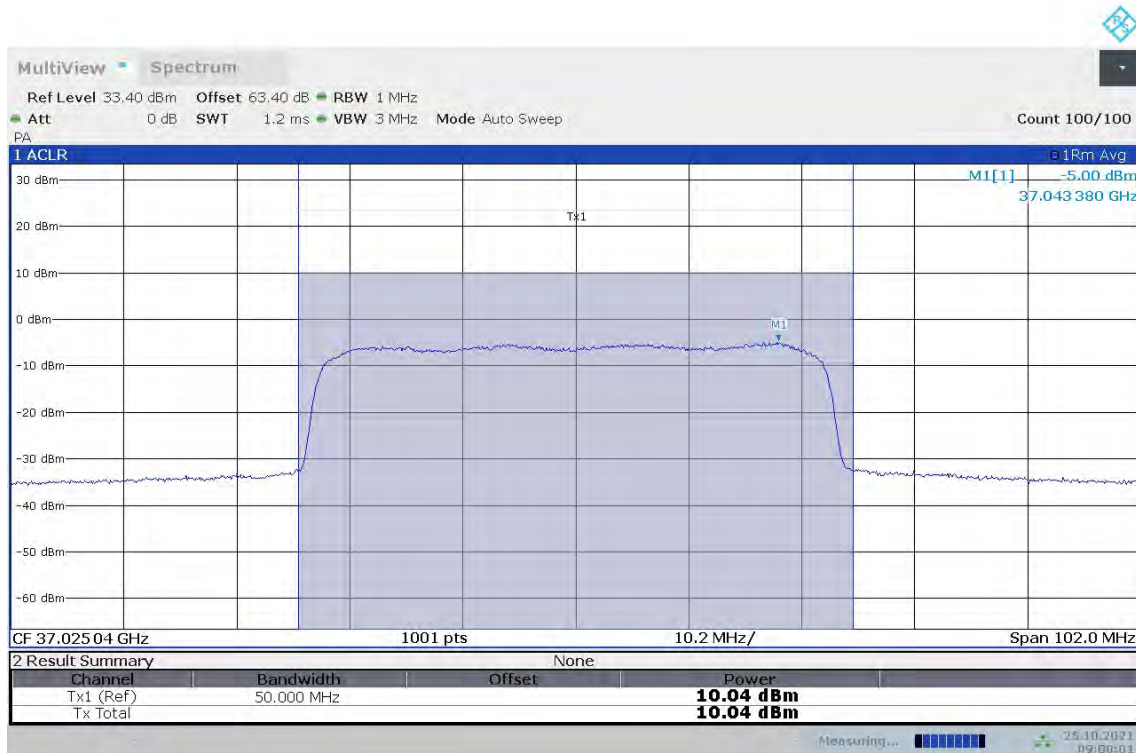
**n260, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, 64QAM**



08:52:39 25.10.2021

n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	37025.04	10.04	/	/

**n260, Module0, 50MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK**

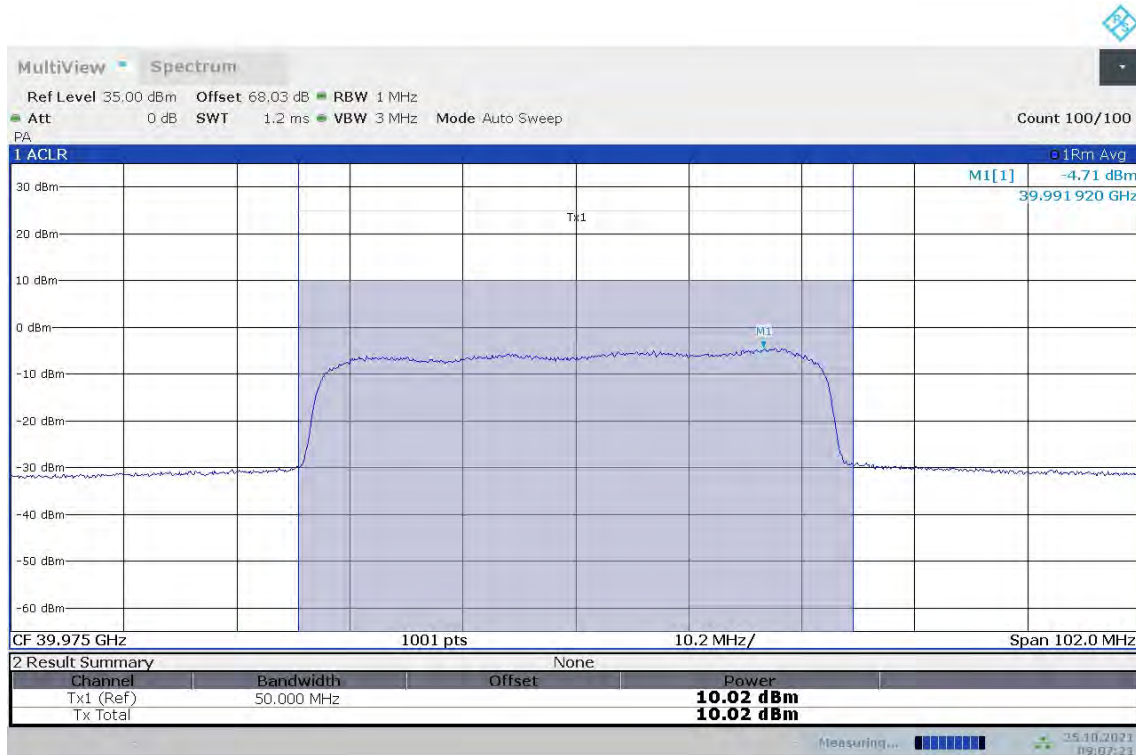


09:00:02 25.10.2021



n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	39975	10.02	/	/

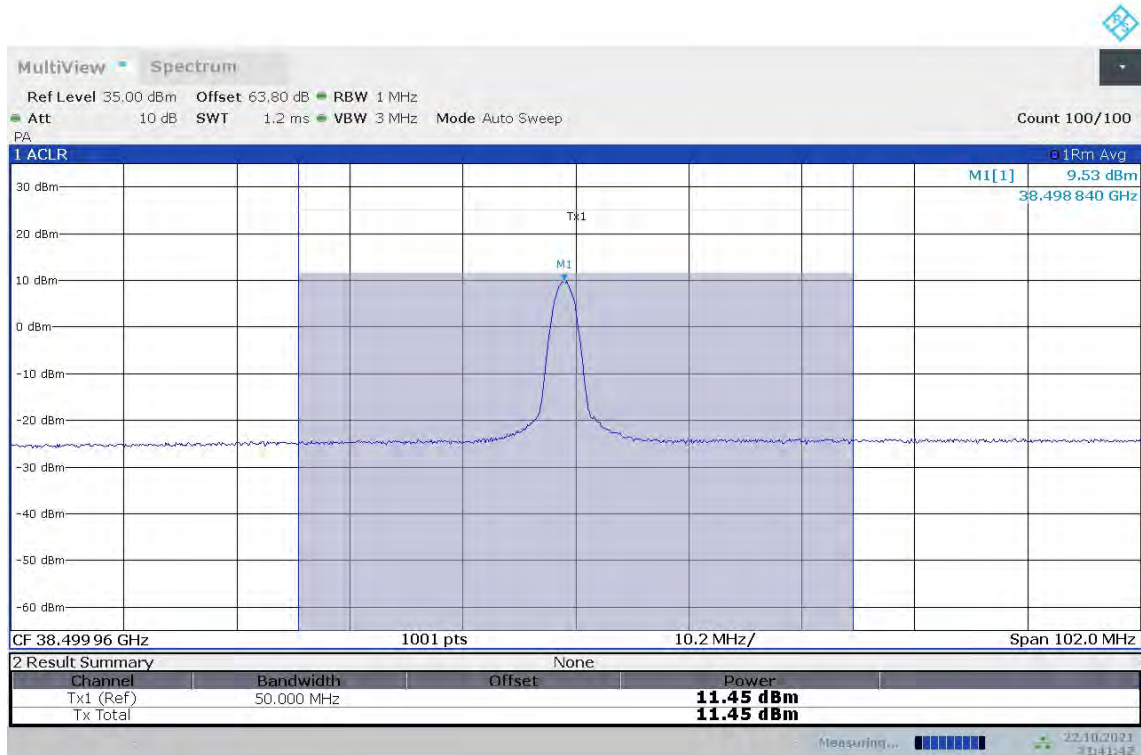
**n260, Module0, 50MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK**



09:07:22 25.10.2021

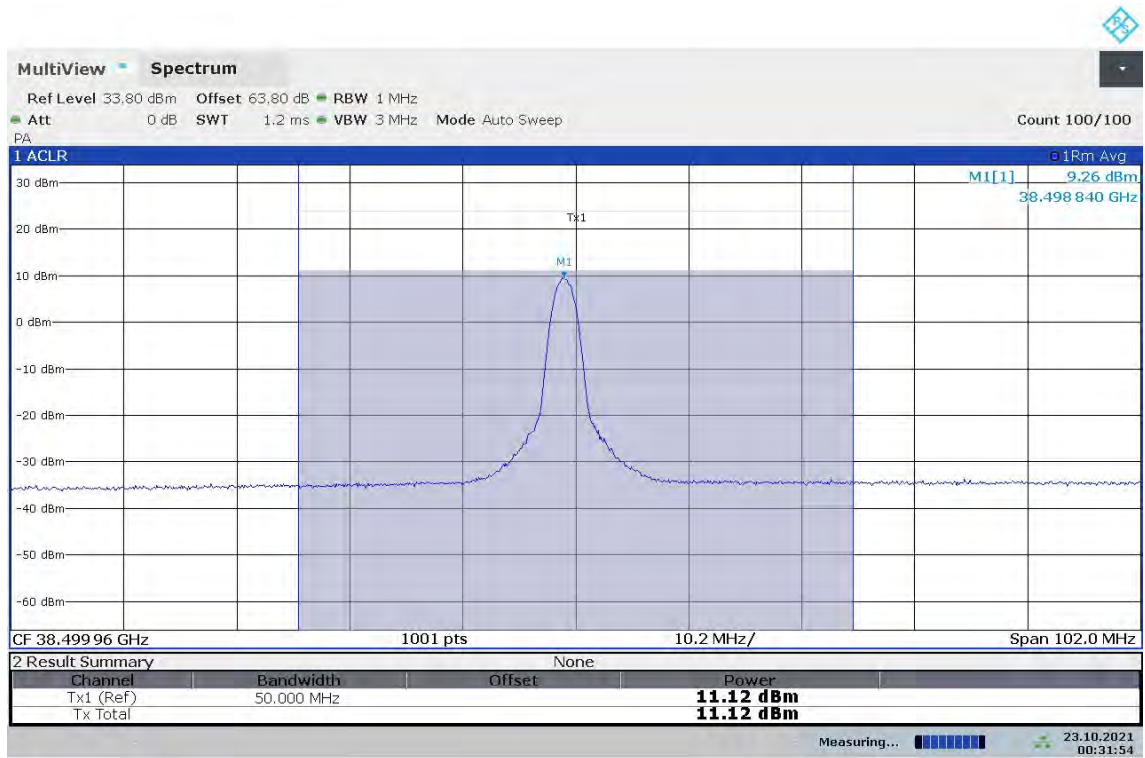
n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	38499.96	11.45	11.12	9.93

**n260, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, QPSK**



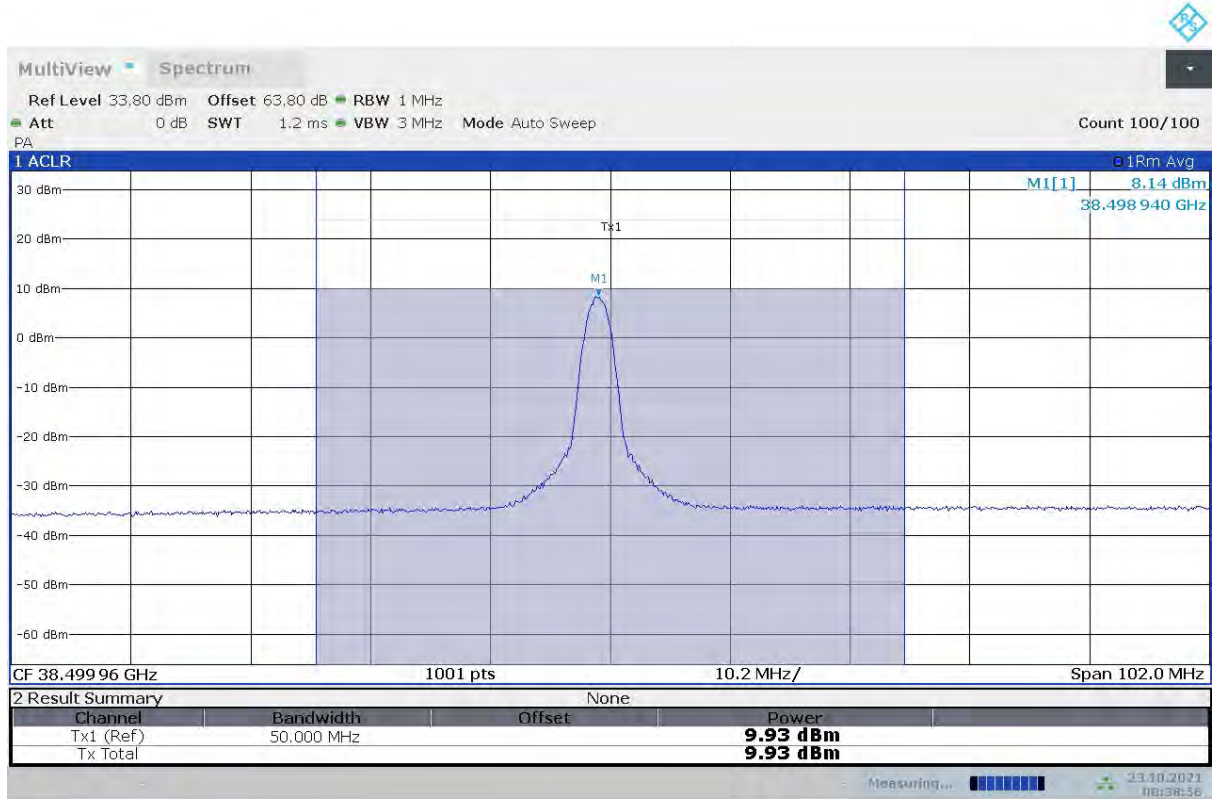
21:41:43 22.10.2021

n260, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, 16QAM



00:31:55 23.10.2021

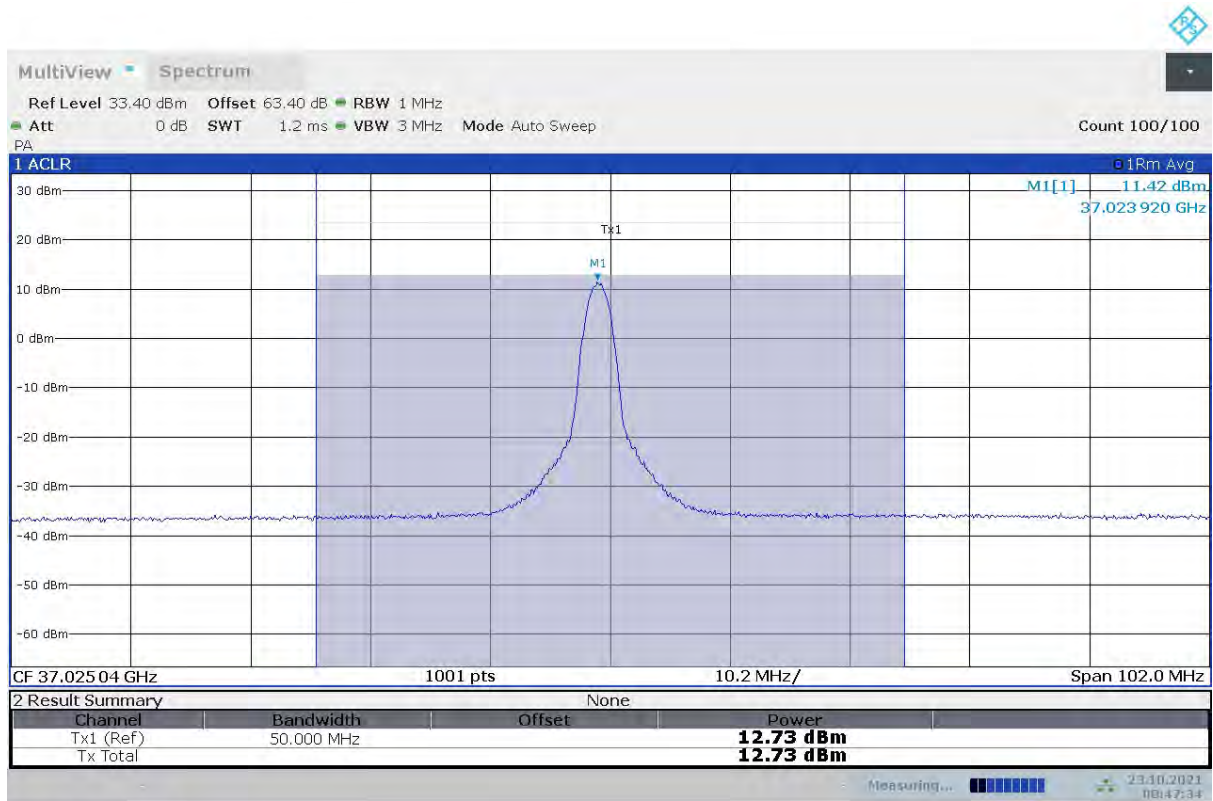
**n260, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, 64QAM**



00:38:56 23.10.2021

n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	37025.04	12.73	/	/

**n260, Module0, 50MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK**

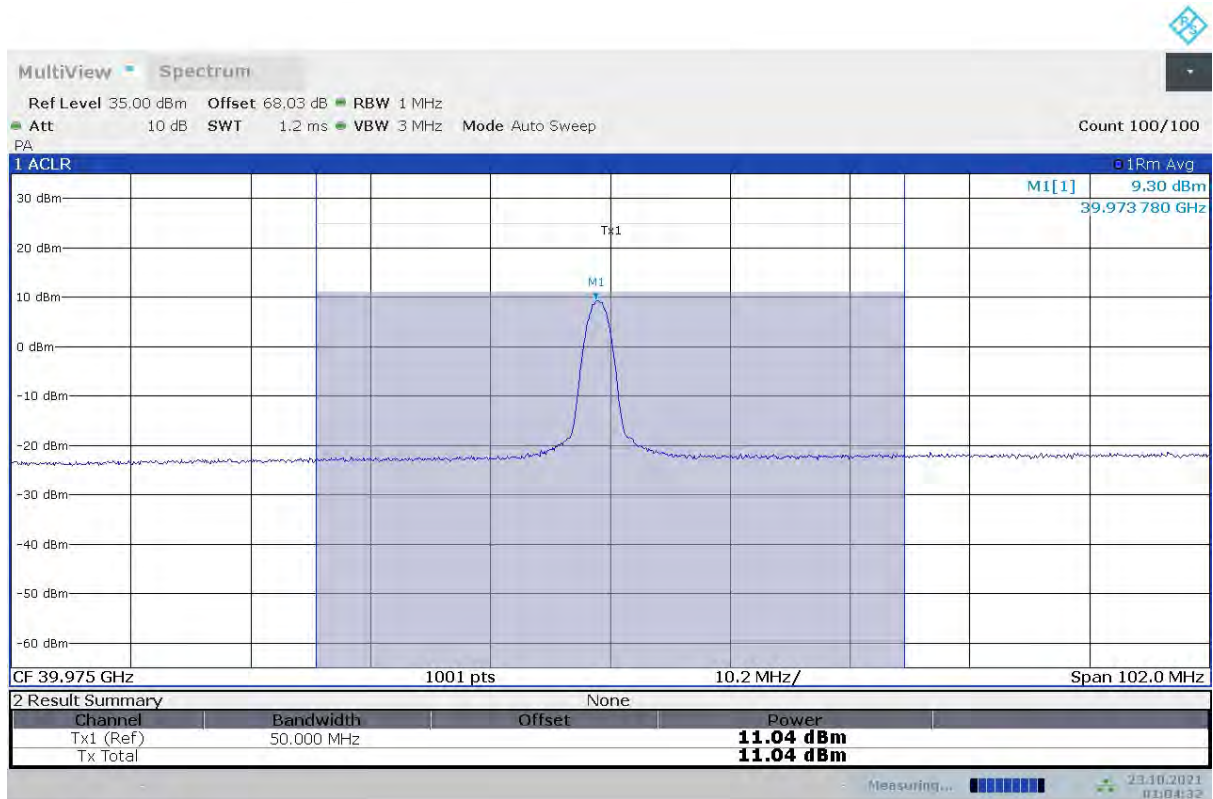


00:47:34 23.10.2021



n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	39975	11.04	/	/

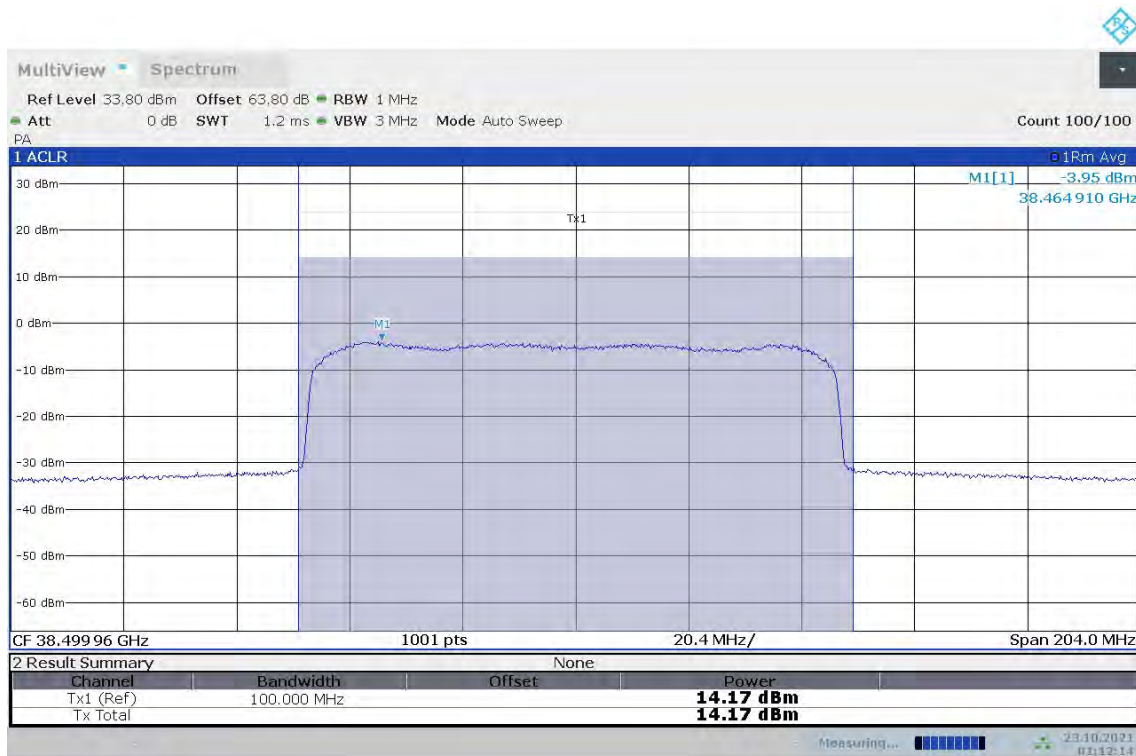
**n260, Module0, 50MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK**



01:04:33 23.10.2021

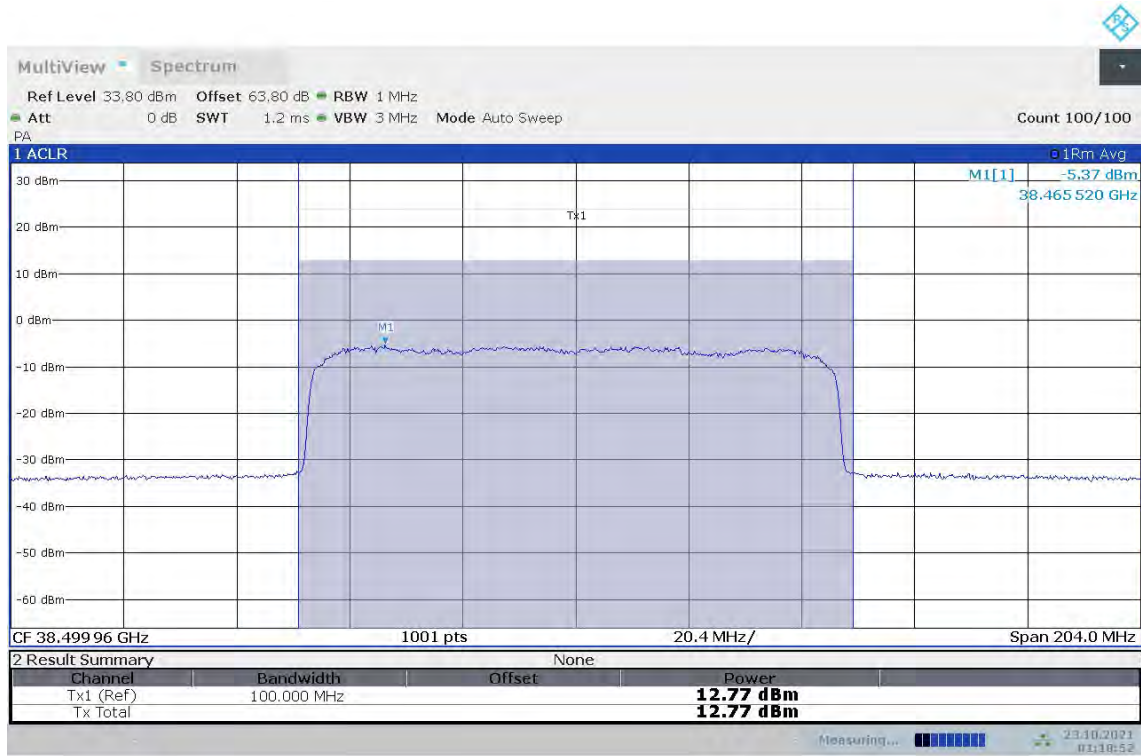
n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	38499.96	14.17	12.77	9.86

**n260, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, QPSK**



01:12:15 23.10.2021

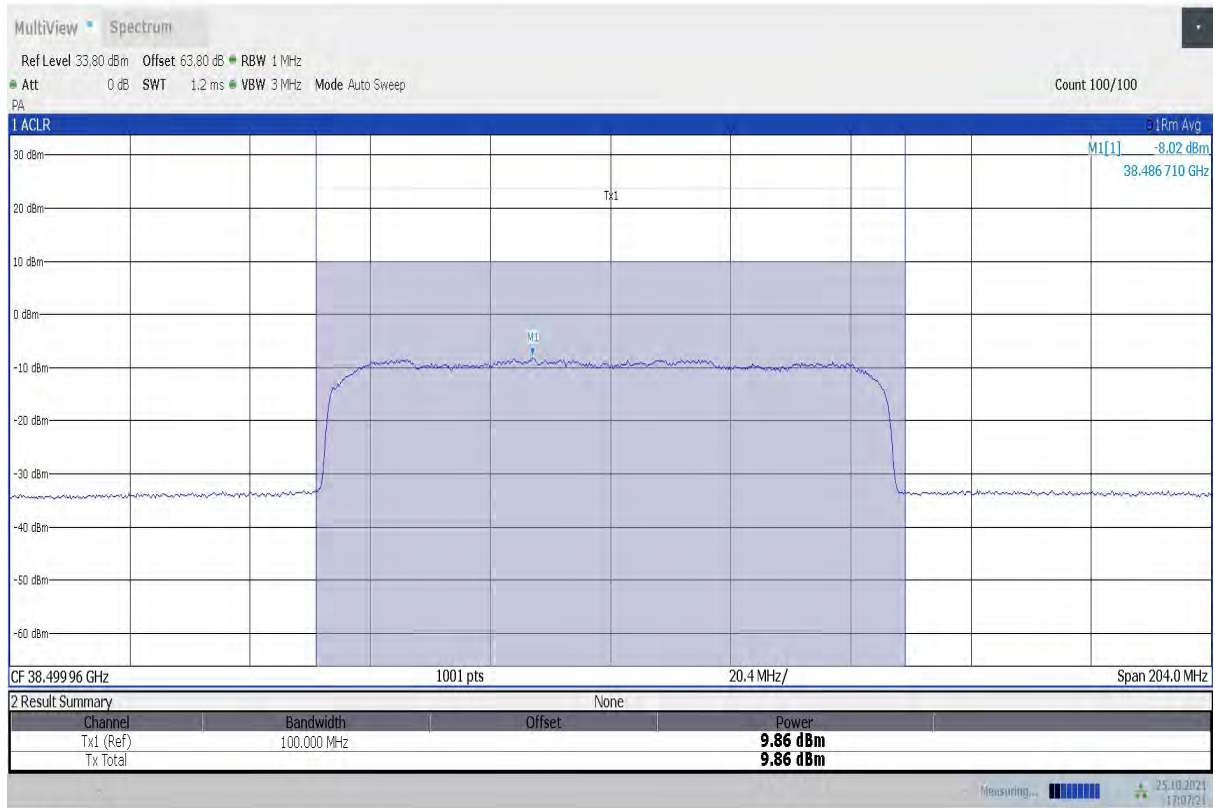
n260, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, 16QAM



01:18:52 23.10.2021



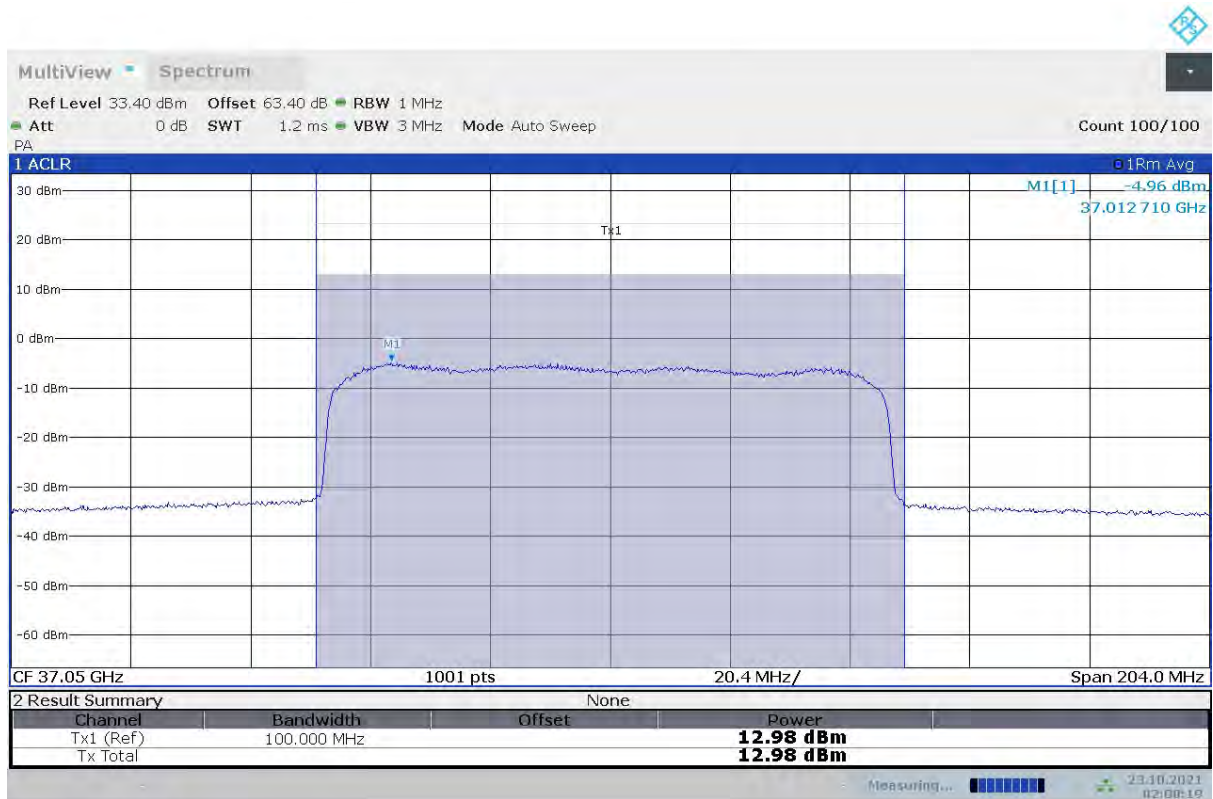
n260, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, 64QAM



17:07:22 25.10.2021

n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	37050	12.98	/	/

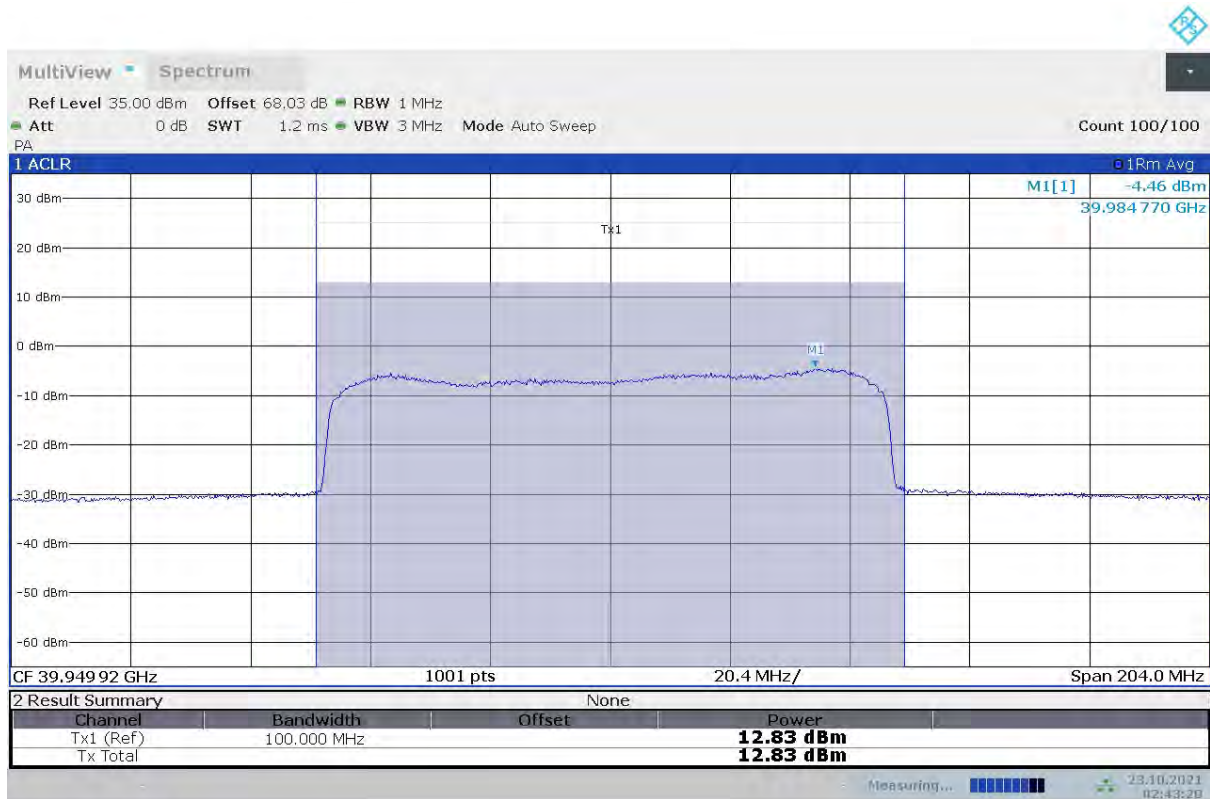
**n260, Module0, 100MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK**



02:00:20 23.10.2021

n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	39949.92	12.83	/	/

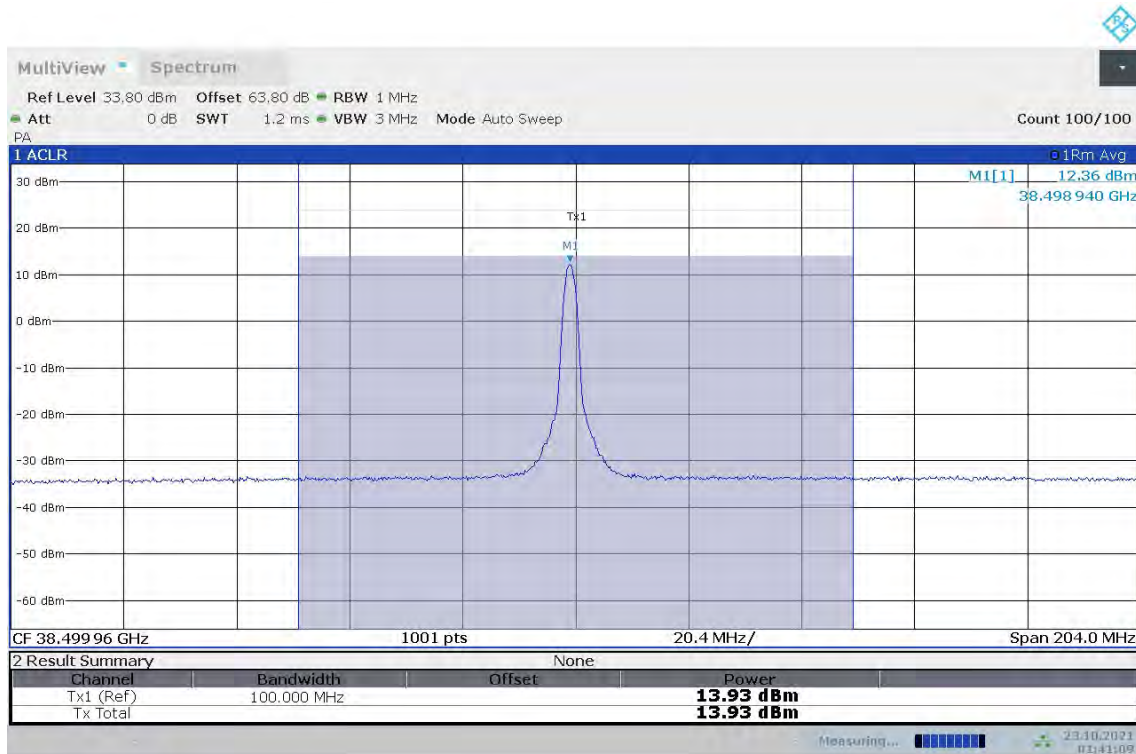
**n260, Module0, 100MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK**



02:43:21 23.10.2021

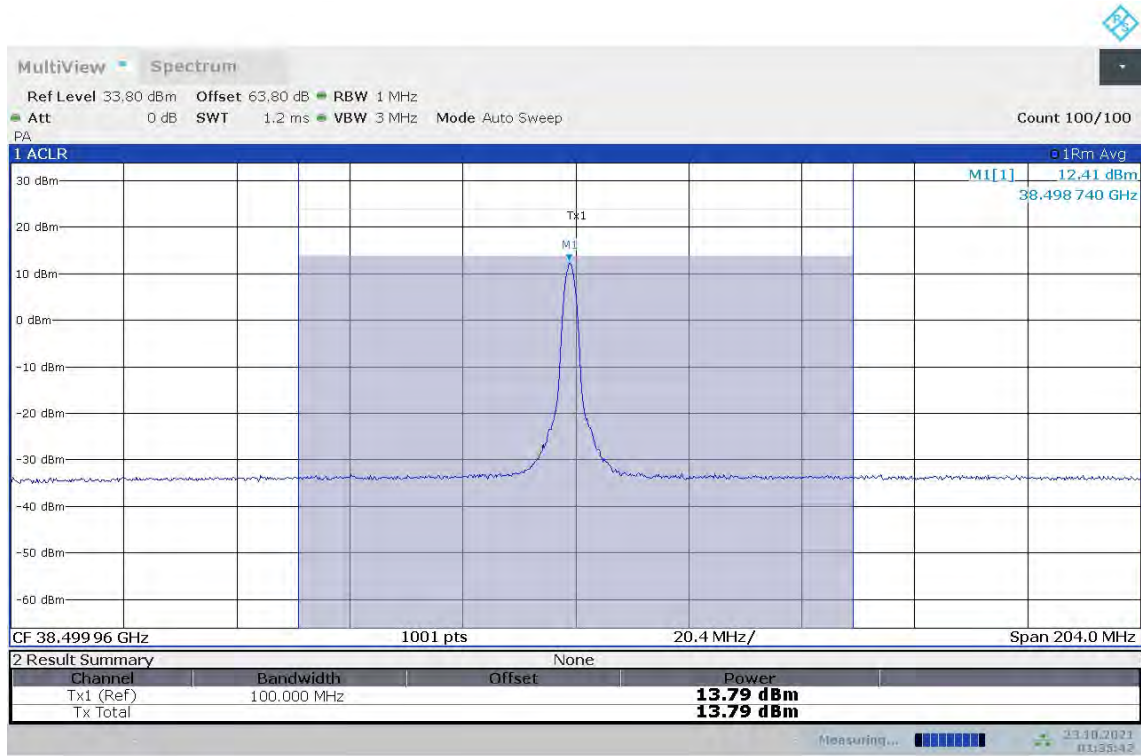
n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	38499.96	13.93	13.79	11.79

**n260, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, QPSK**



01:41:10 23.10.2021

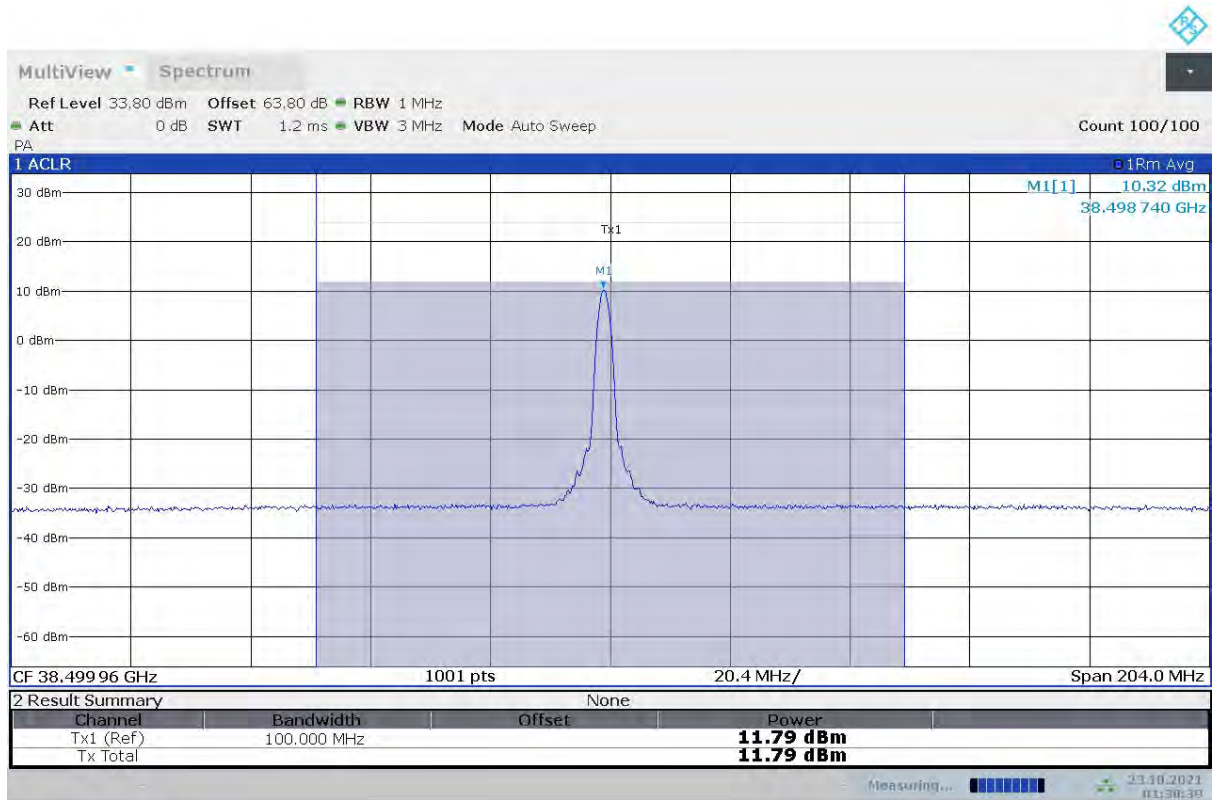
**n260, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, 16QAM**



01:35:42 23.10.2021



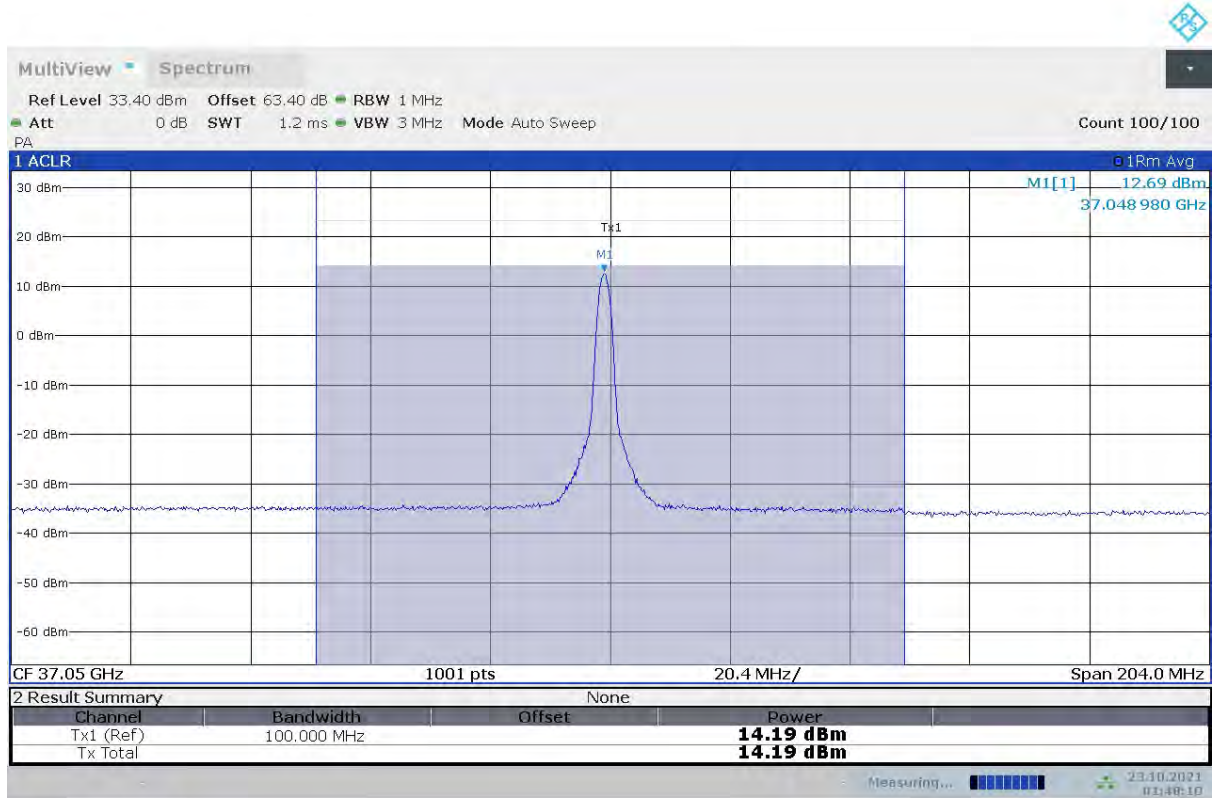
n260, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, 64QAM



01:30:40 23.10.2021

n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	37050	14.19	/	/

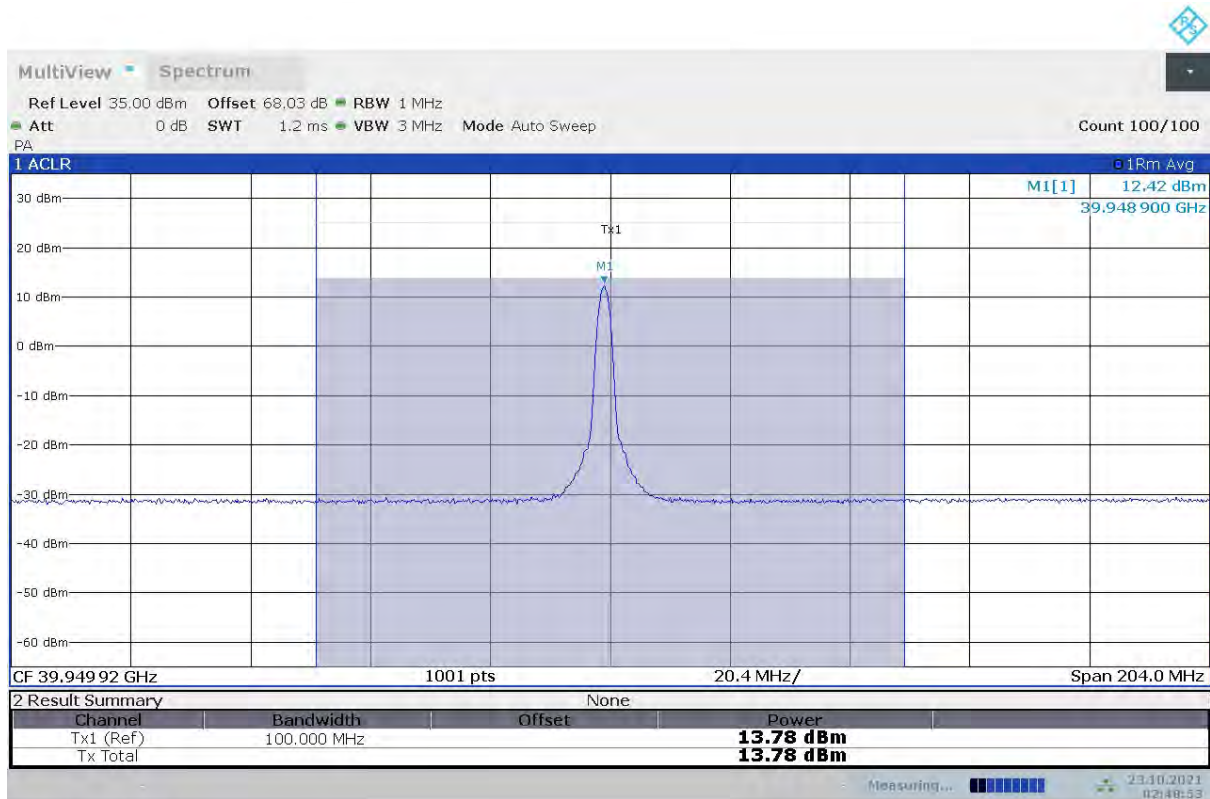
**n260, Module0, 100MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK**



01:48:10 23.10.2021

n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	39949.92	13.78	/	/

**n260, Module0, 100MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK**

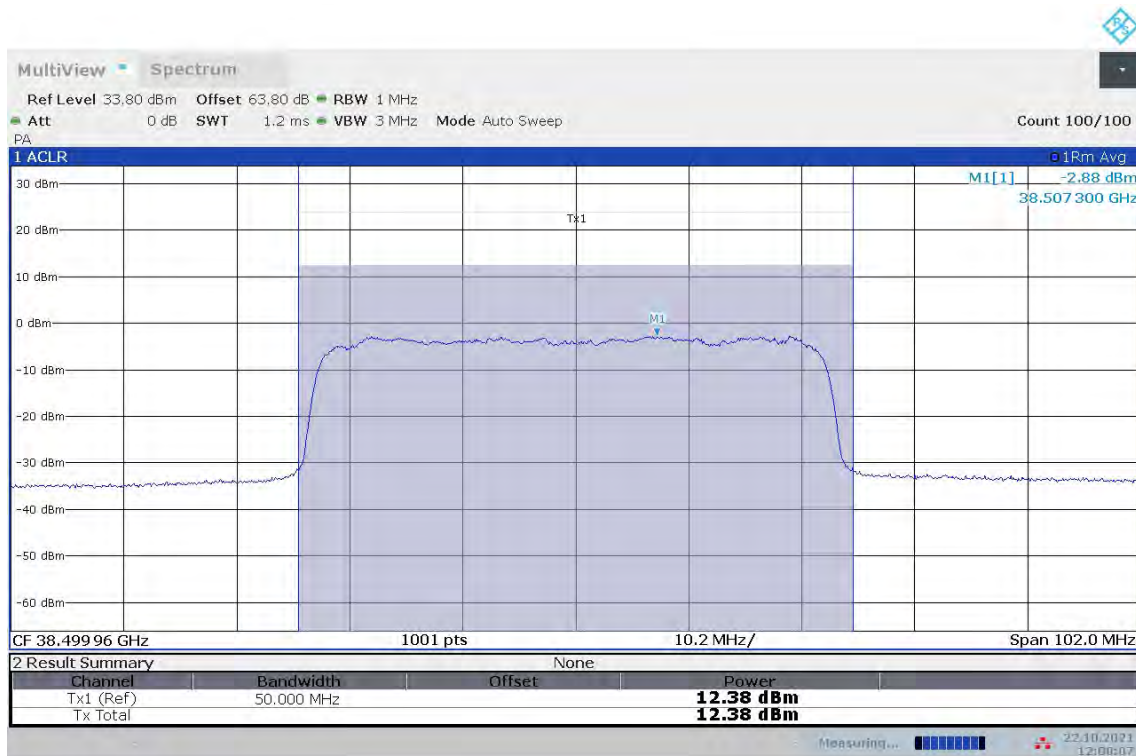


02:48:54 23.10.2021



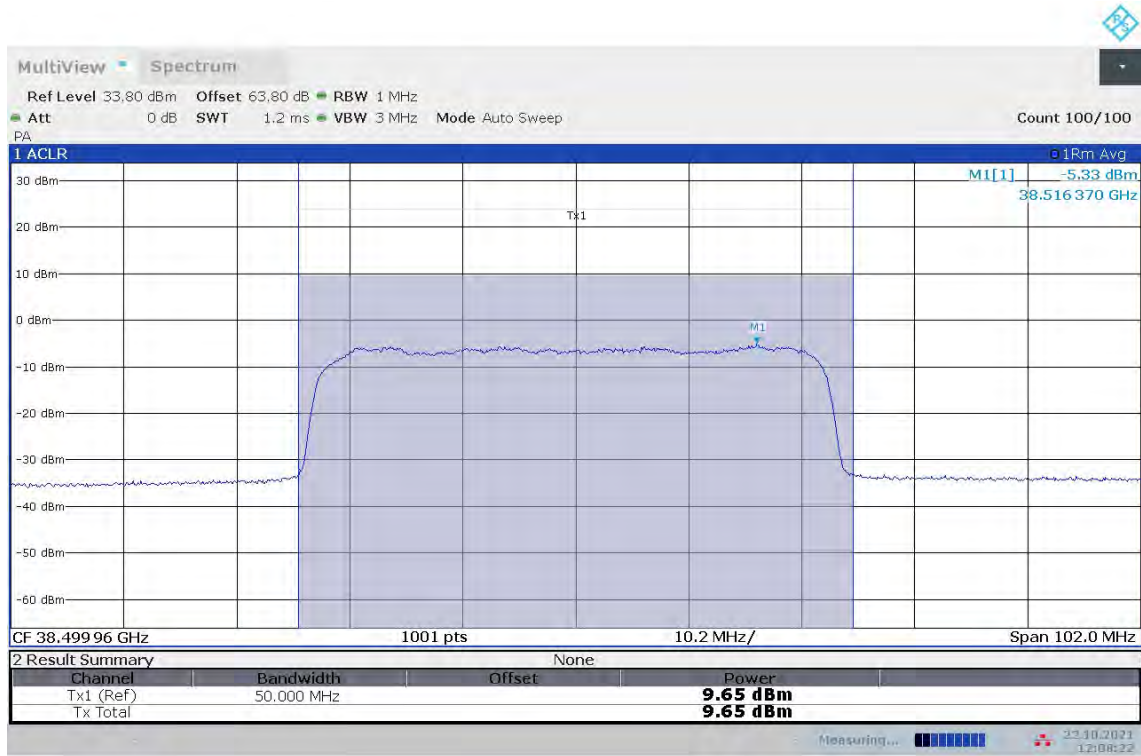
n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	38499.96	12.38	9.65	6.91

**n260, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, QPSK**



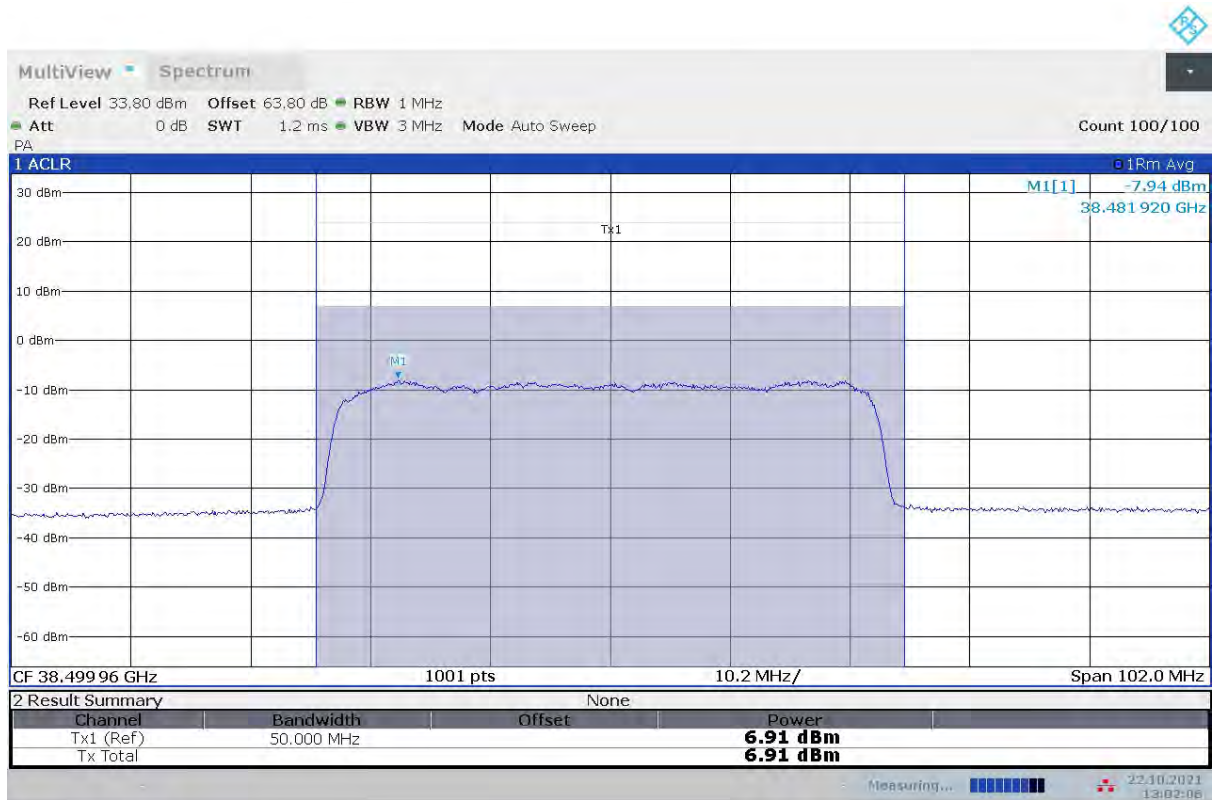
12:00:07 22.10.2021

**n260, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, 16QAM**



12:08:23 22.10.2021

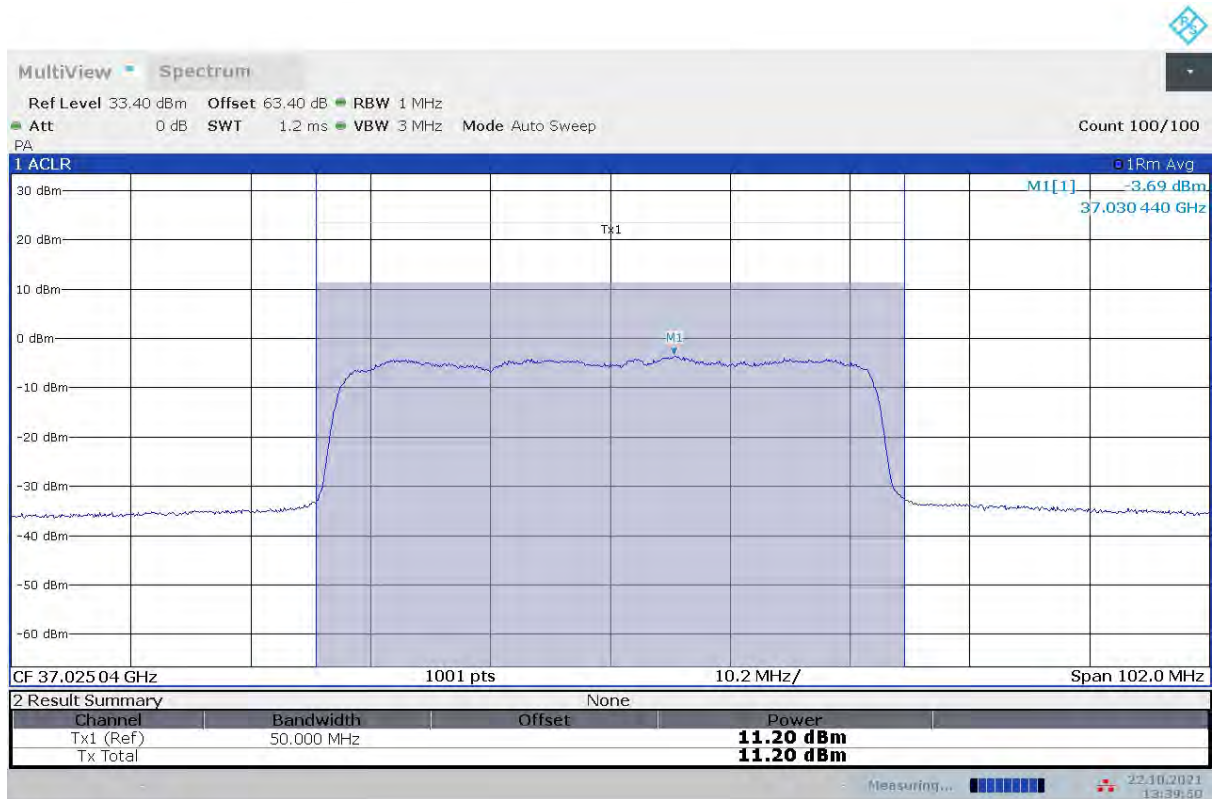
n260, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, 64QAM



13:02:06 22.10.2021

n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	37025.04	11.20	/	/

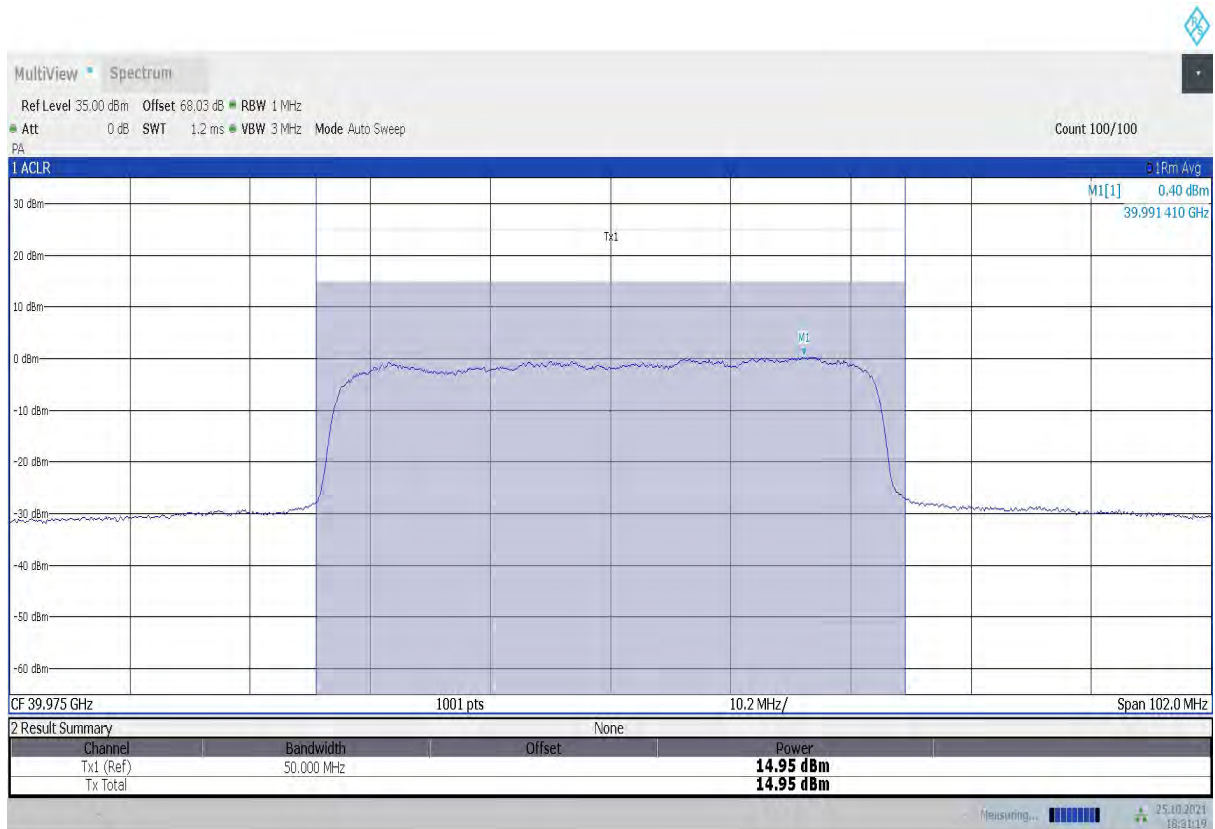
**n260, Module0, 50MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK**



13:39:50 22.10.2021

n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	39975	14.95	/	/

**n260, Module0, 50MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK**

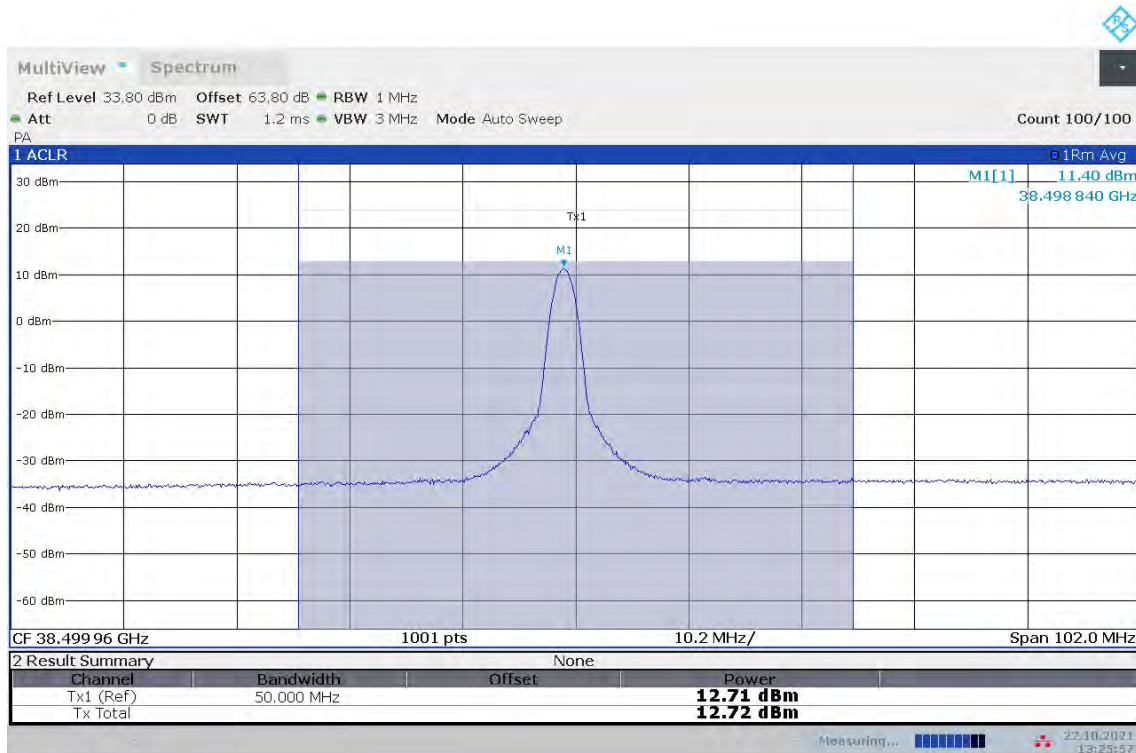


18:31:19 25.10.2021



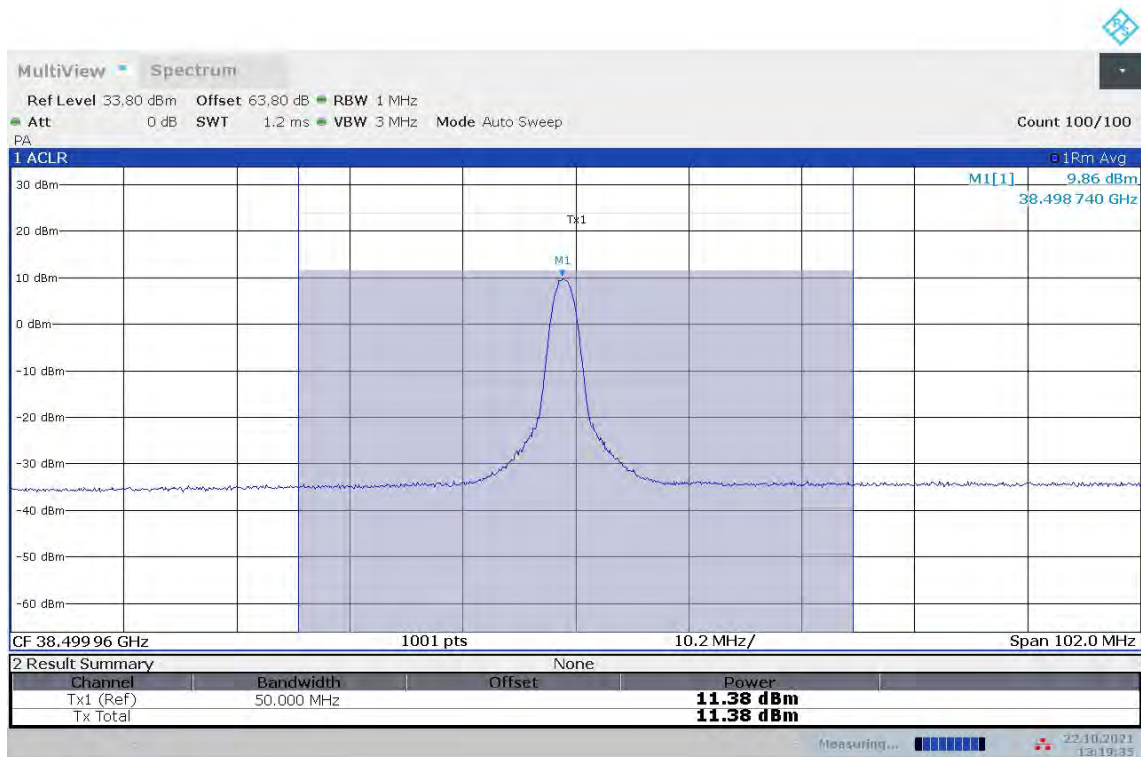
n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	38499.96	12.71	11.38	8.37

**n260, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, QPSK**



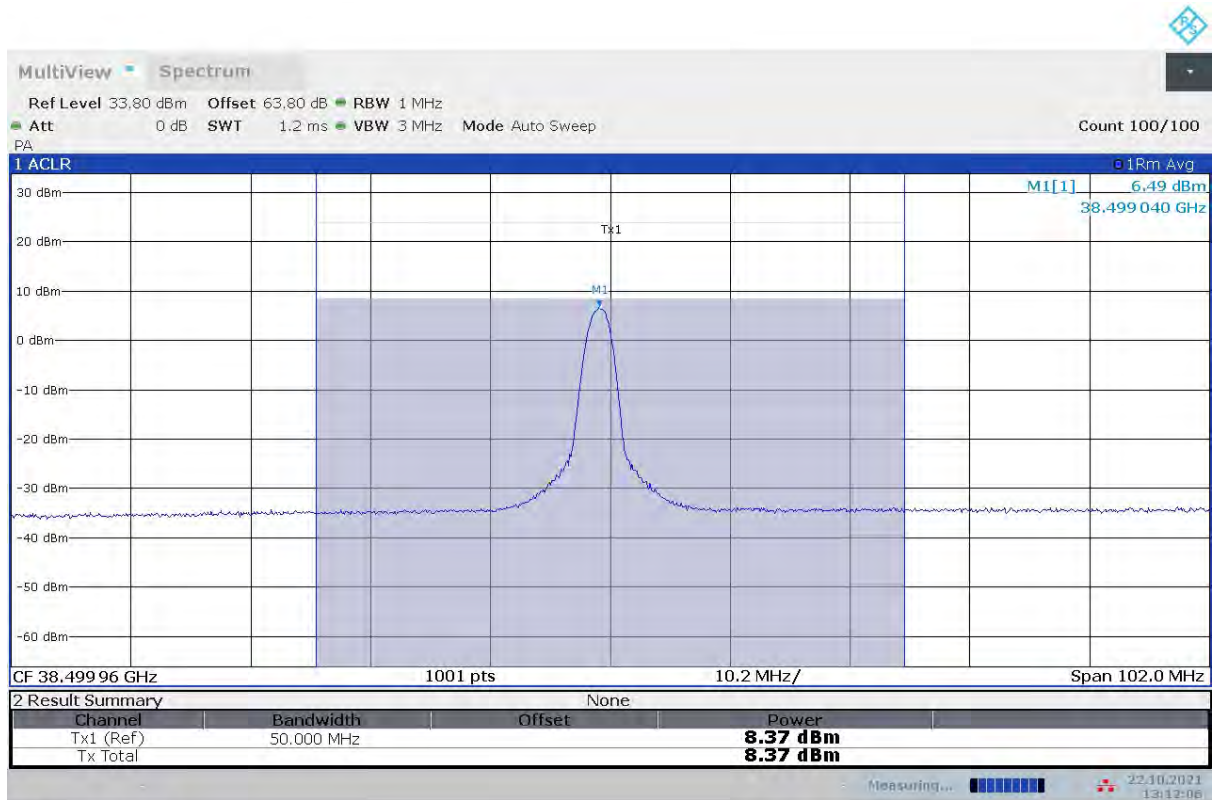
13:25:57 22.10.2021

n260, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, 16QAM



13:19:36 22.10.2021

n260, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, 64QAM

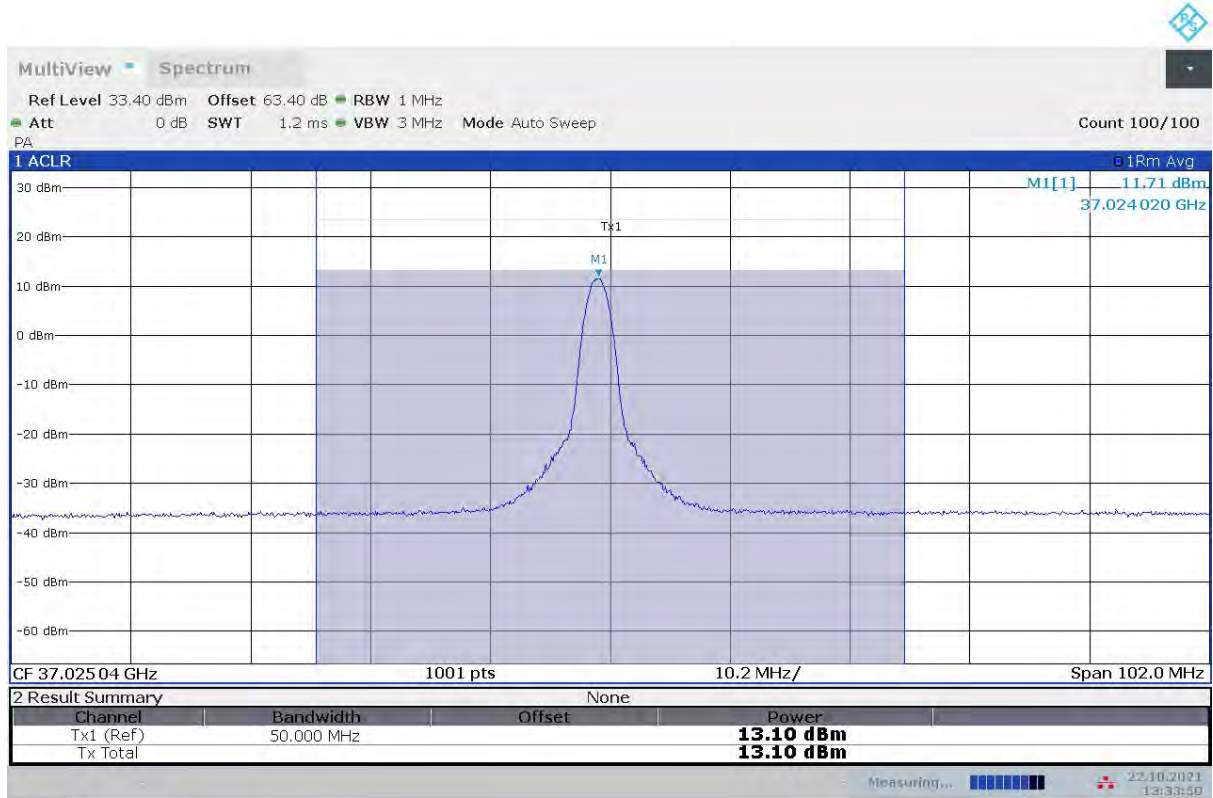


13:12:07 22.10.2021



n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	37025.04	13.10	/	/

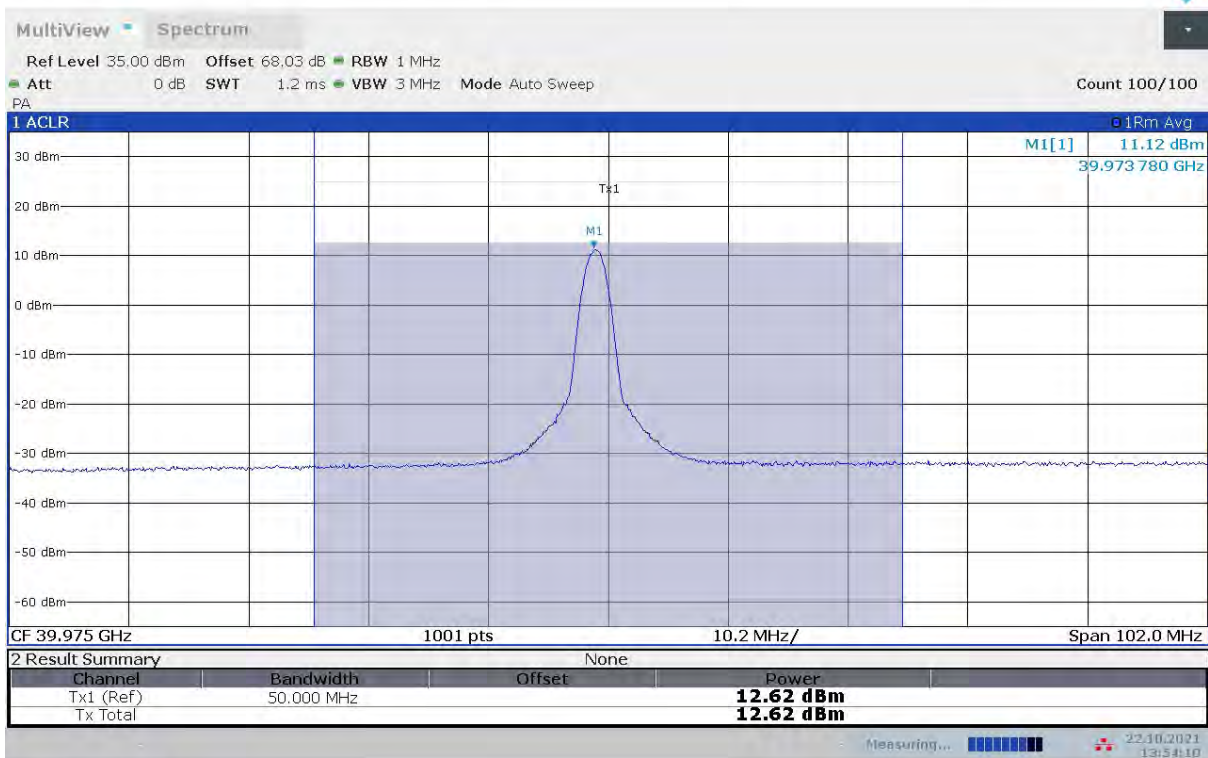
**n260, Module0, 50MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK**



13:33:51 22.10.2021

n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	39975	12.62	/	/

**n260, Module0, 50MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK**



13:54:11 22.10.2021

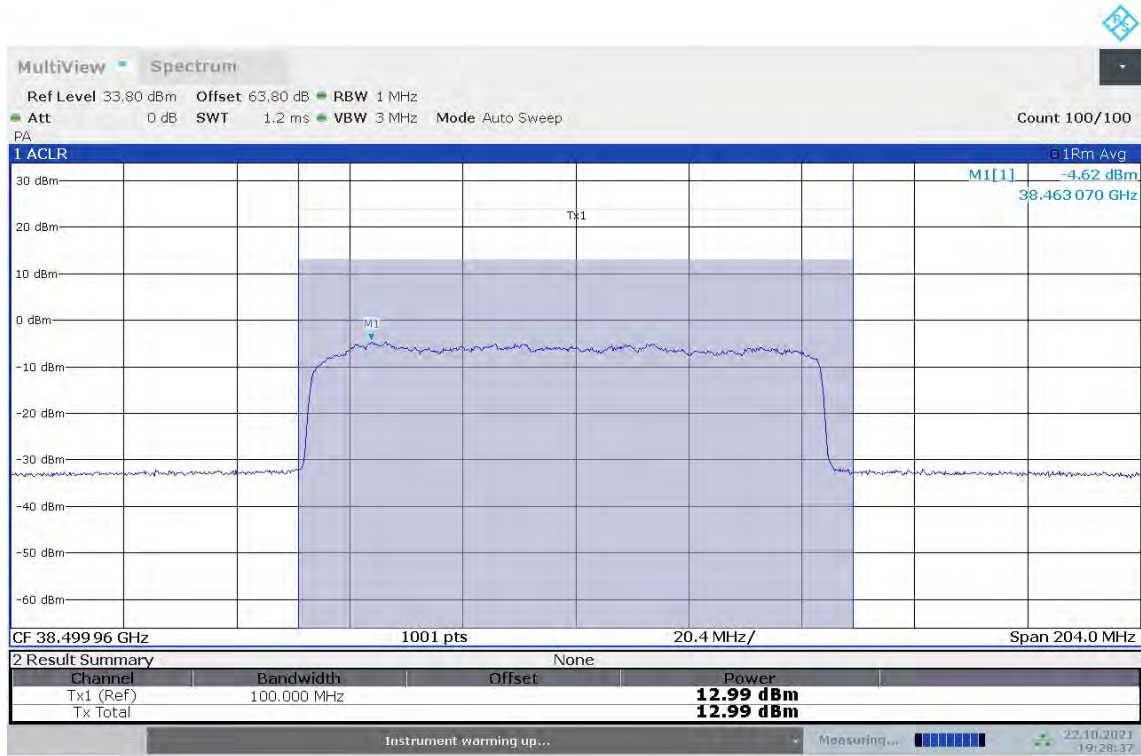
n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	38499.96	14.94	12.99	9.86

**n260, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, QPSK**



19:22:41 22.10.2021

**n260, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, 16QAM**



19:28:38 22.10.2021

n260, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, 64QAM

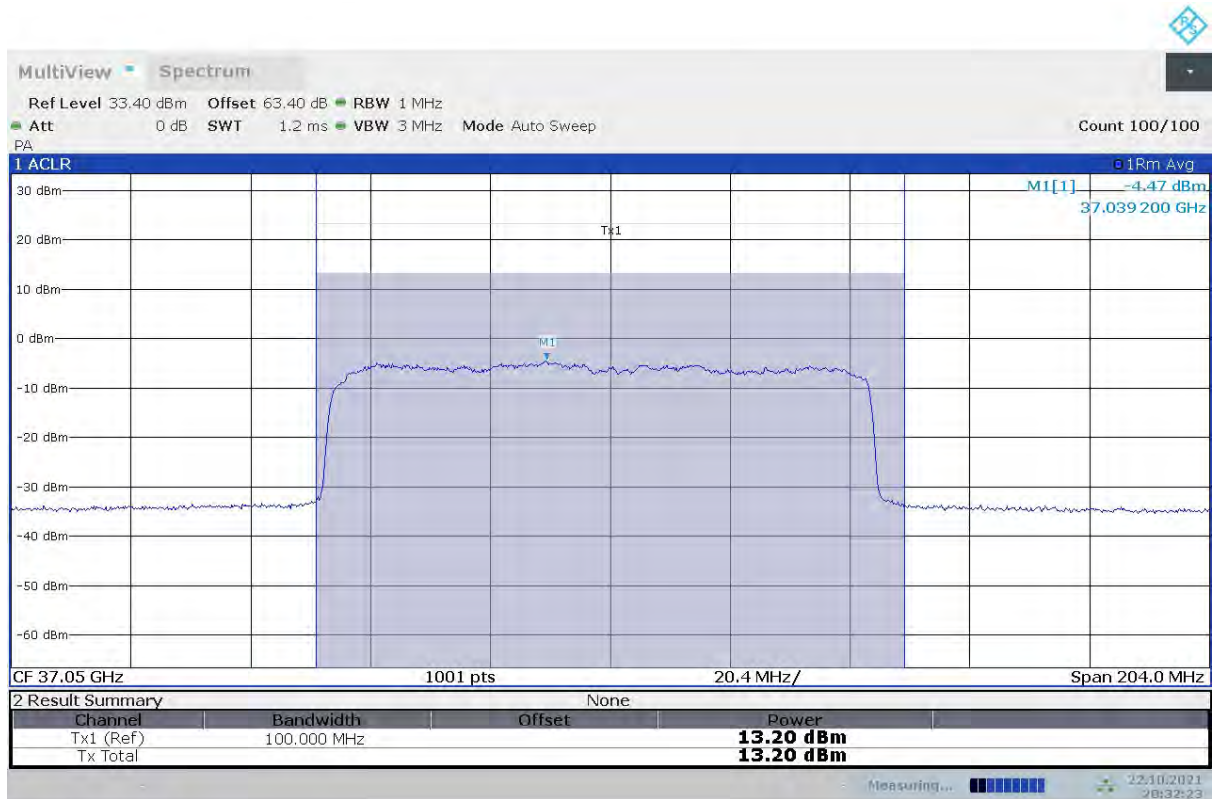


19:40:06 22.10.2021



n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	37050	13.20	/	/

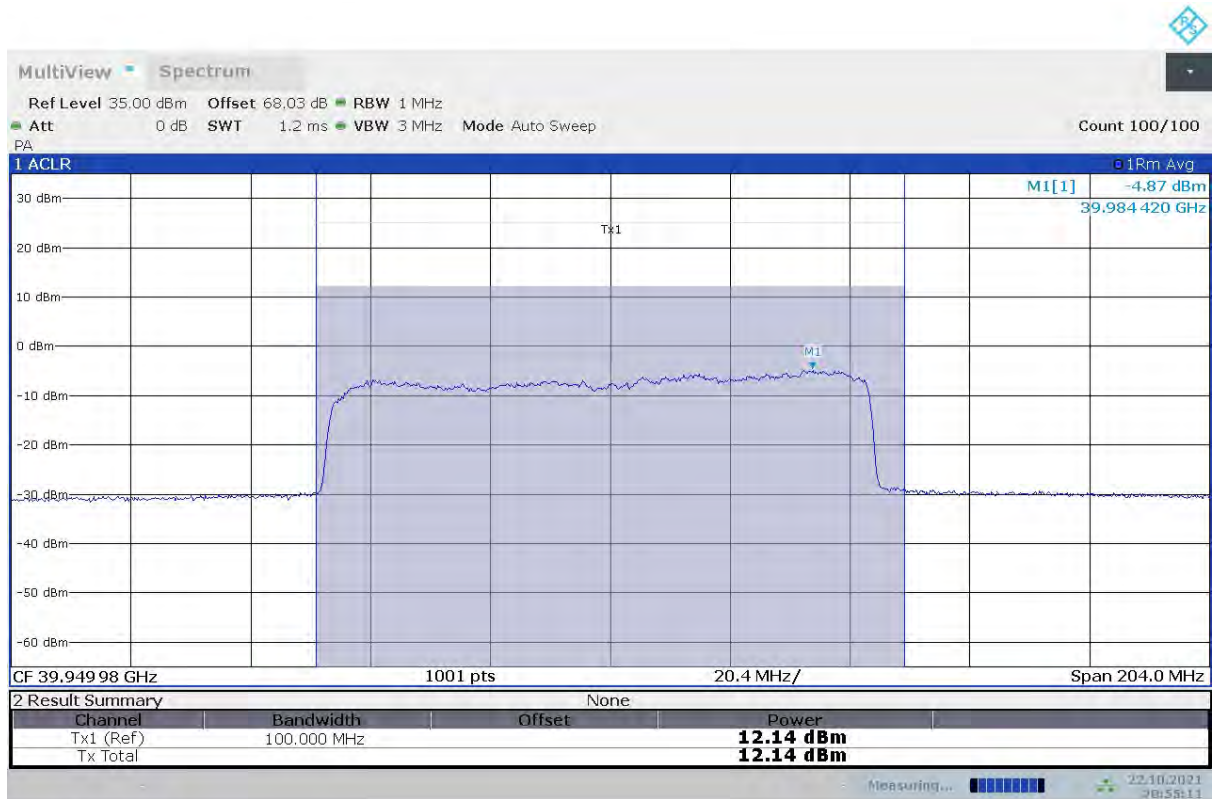
**n260, Module0, 100MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK**



20:32:24 22.10.2021

n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	39949.92	12.14	/	/

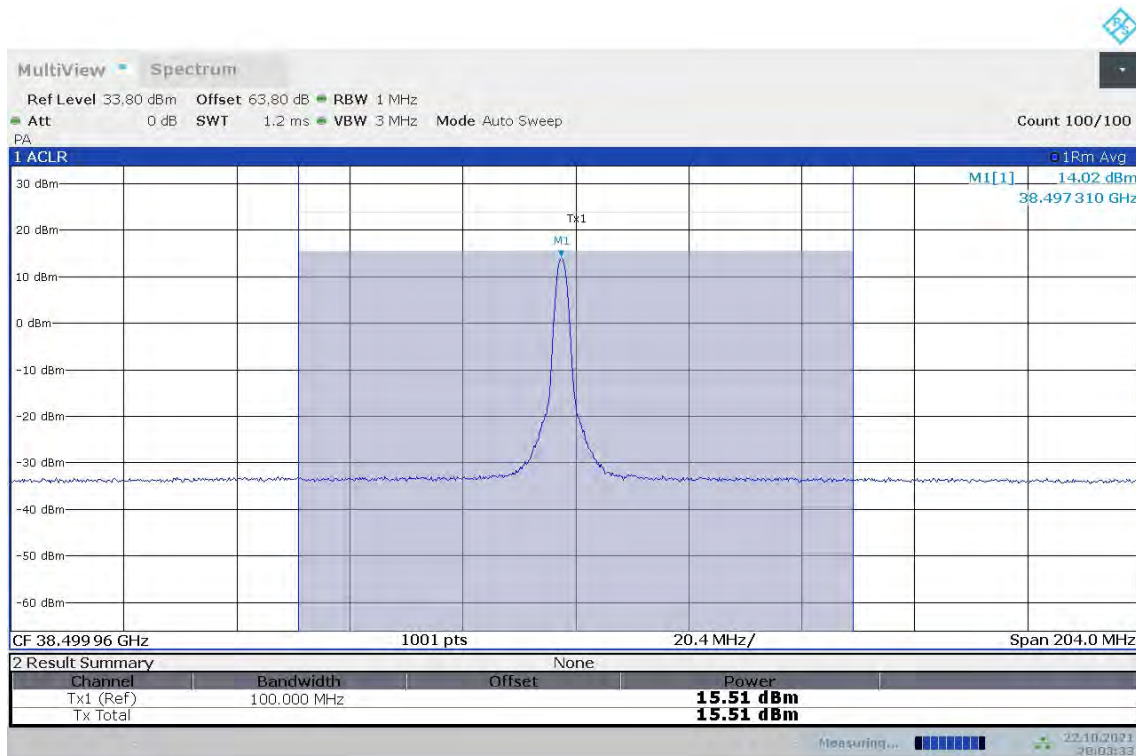
**n260, Module0, 100MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK**



20:55:11 22.10.2021

n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	38499.96	15.51	14.00	11.68

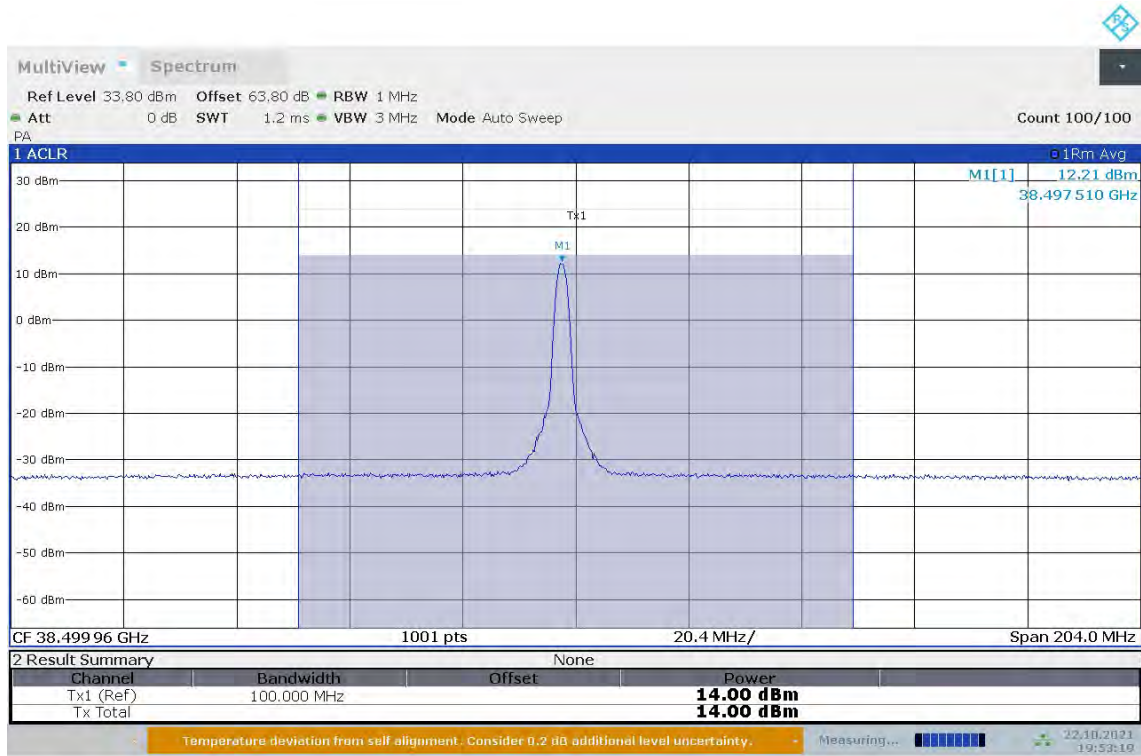
**n260, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, QPSK**



20:03:33 22.10.2021

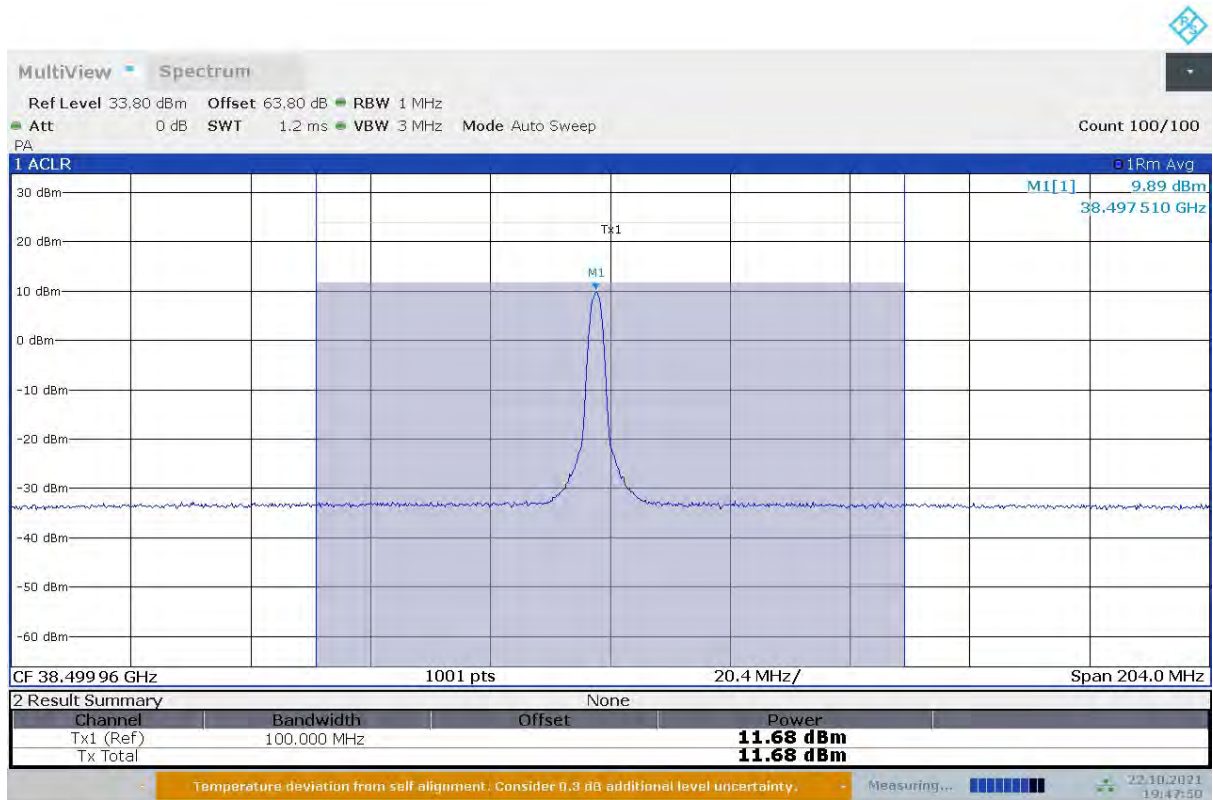


n260, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, 16QAM



19:53:19 22.10.2021

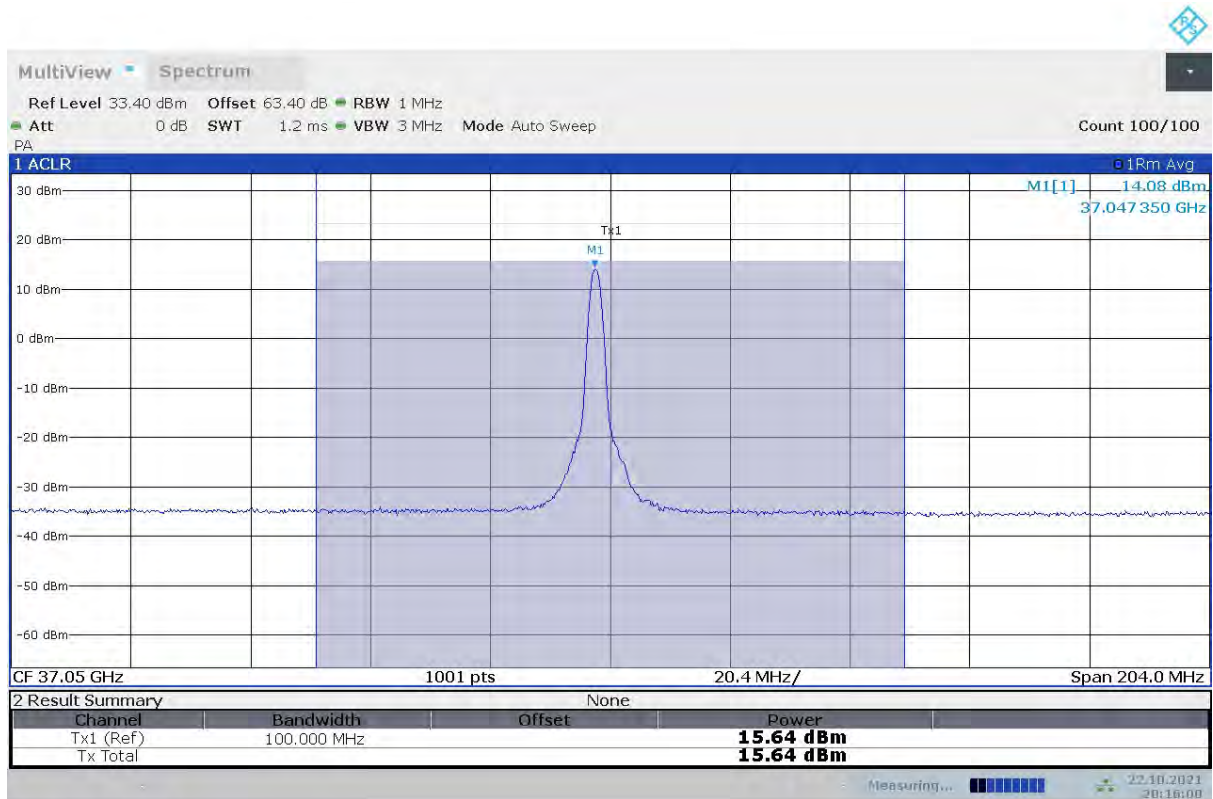
n260, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, 64QAM



19:47:51 22.10.2021

n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	37050	15.64	/	/

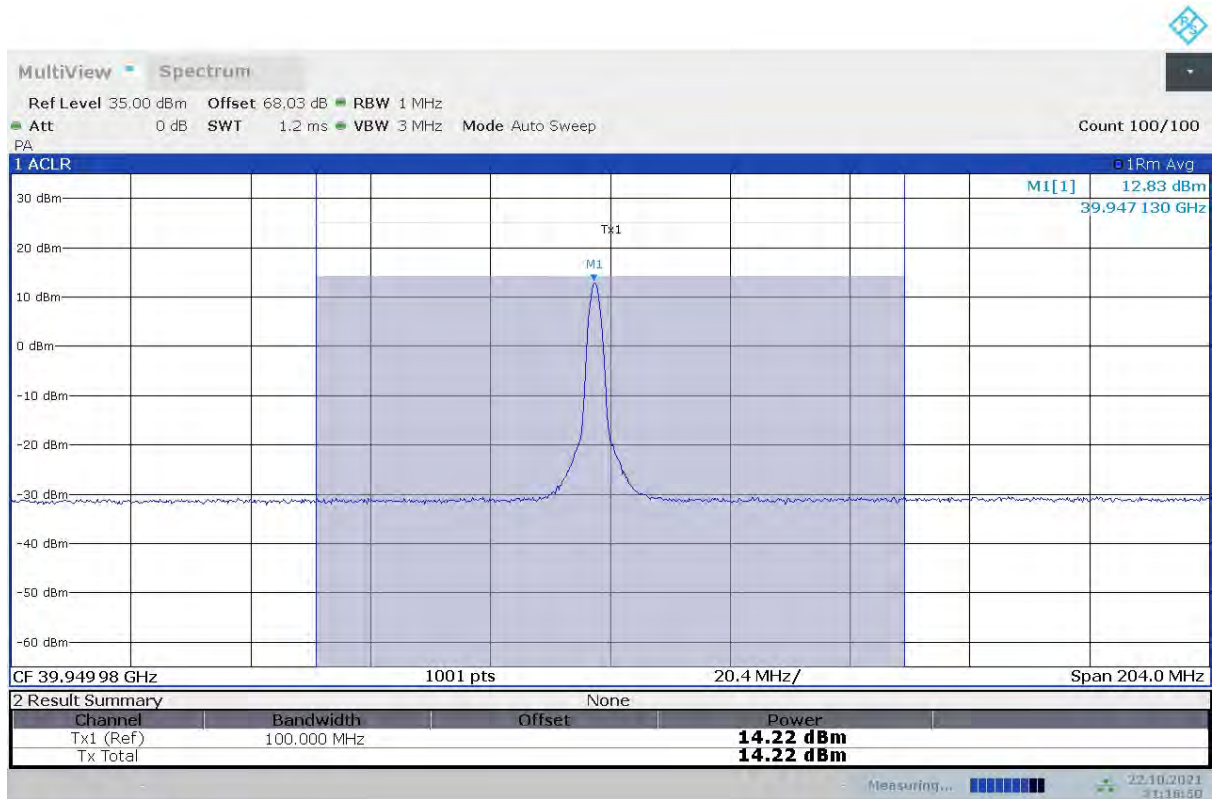
**n260, Module0, 100MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK**



20:16:00 22.10.2021

n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	39949.92	14.22	/	/

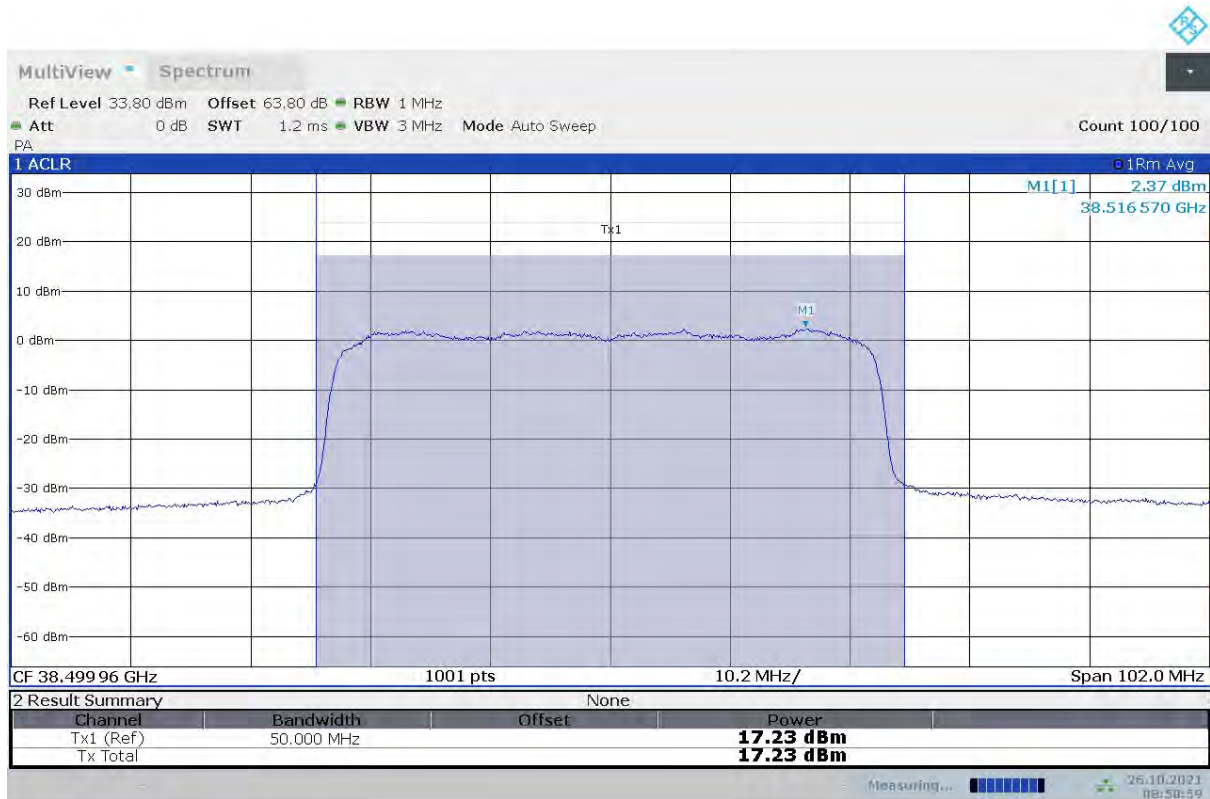
**n260, Module0, 100MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK**



21:16:50 22.10.2021

n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	38499.96	17.23	/	/

**n260, Module1, 50MHz Bandwidth, 100% RB, MID CHANNEL, QPSK**

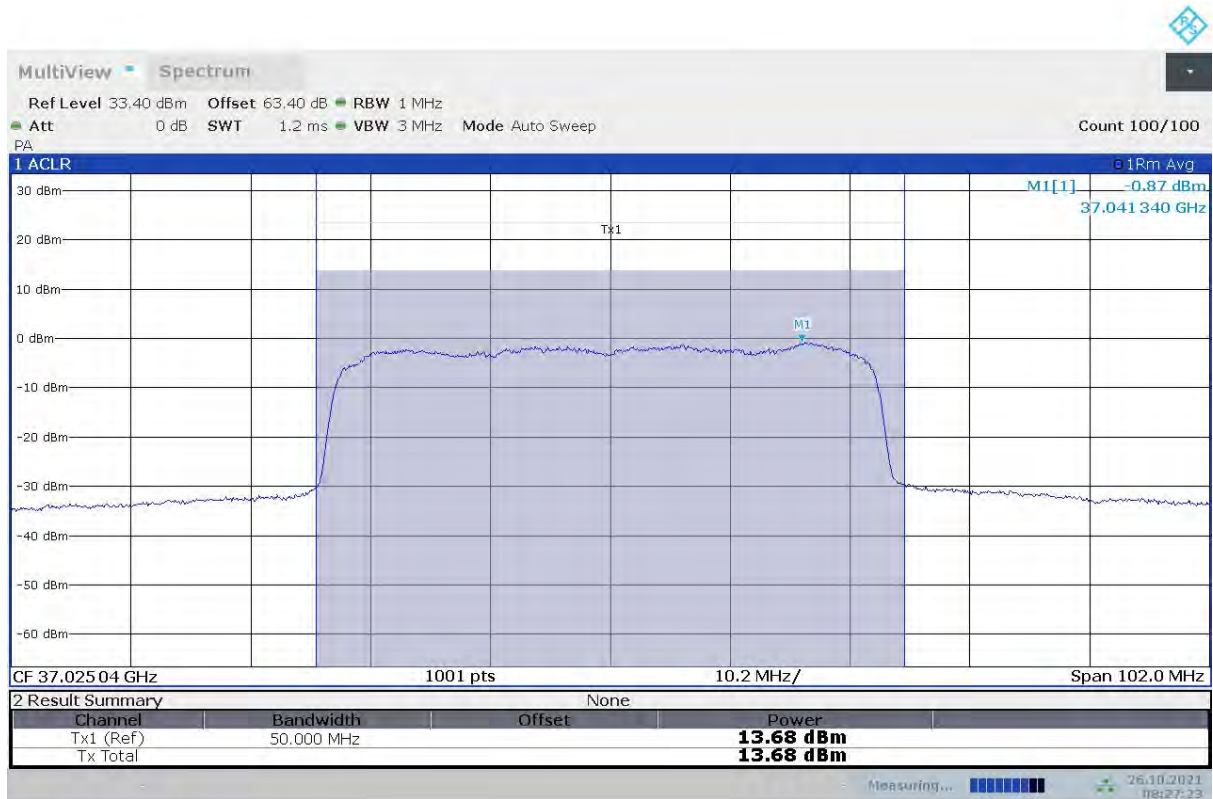


08:50:59 26.10.2021



n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	37025.04	13.68	/	/

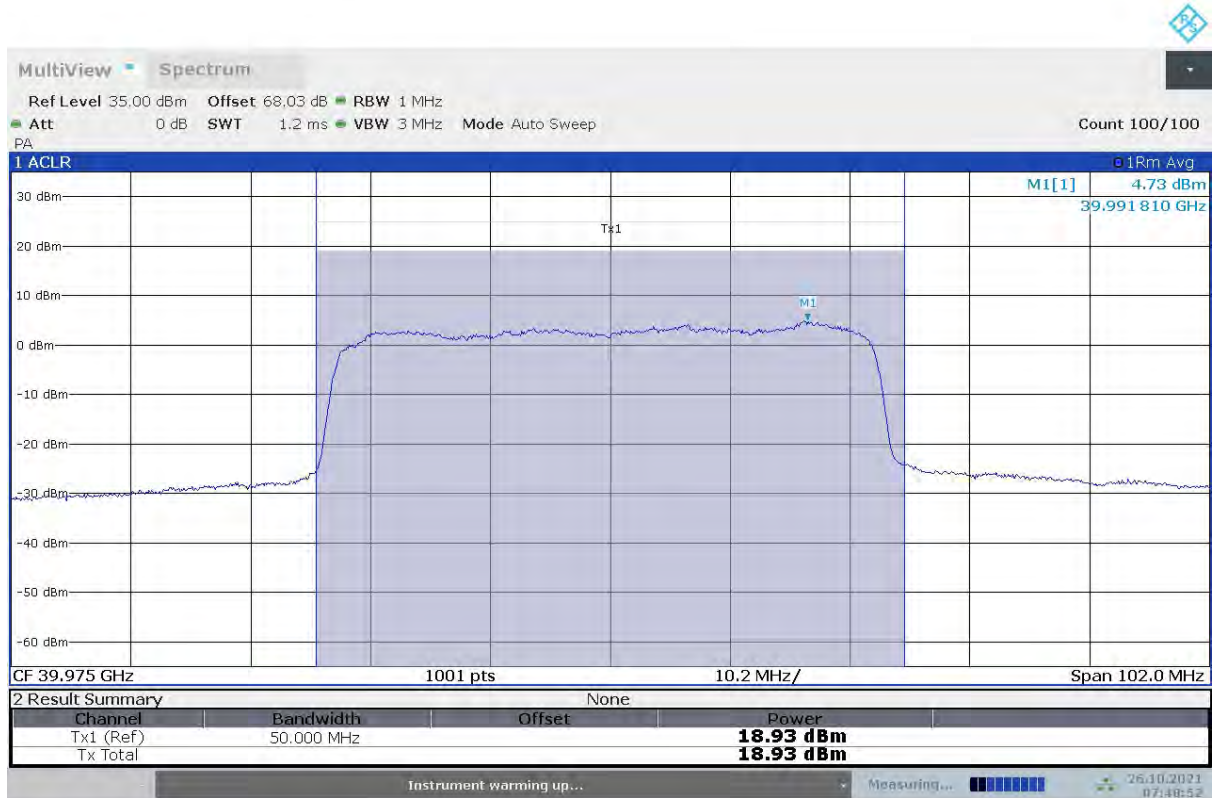
**n260, Module1, 50MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK**



08:27:23 26.10.2021

n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	39975	18.93	/	/

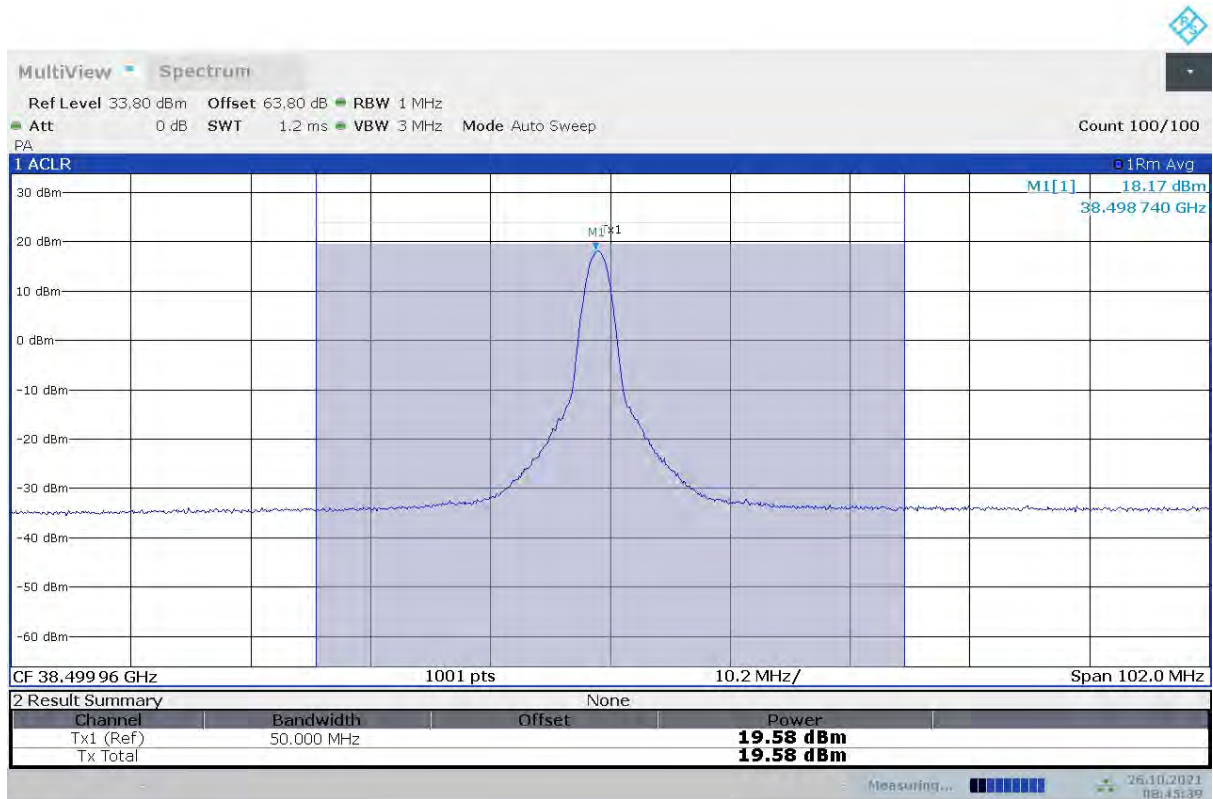
**n260, Module1, 50MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK**



07:48:52 26.10.2021

n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	38499.96	19.58	/	/

**n260, Module1, 50MHz Bandwidth, 1RB, MID CHANNEL, QPSK**

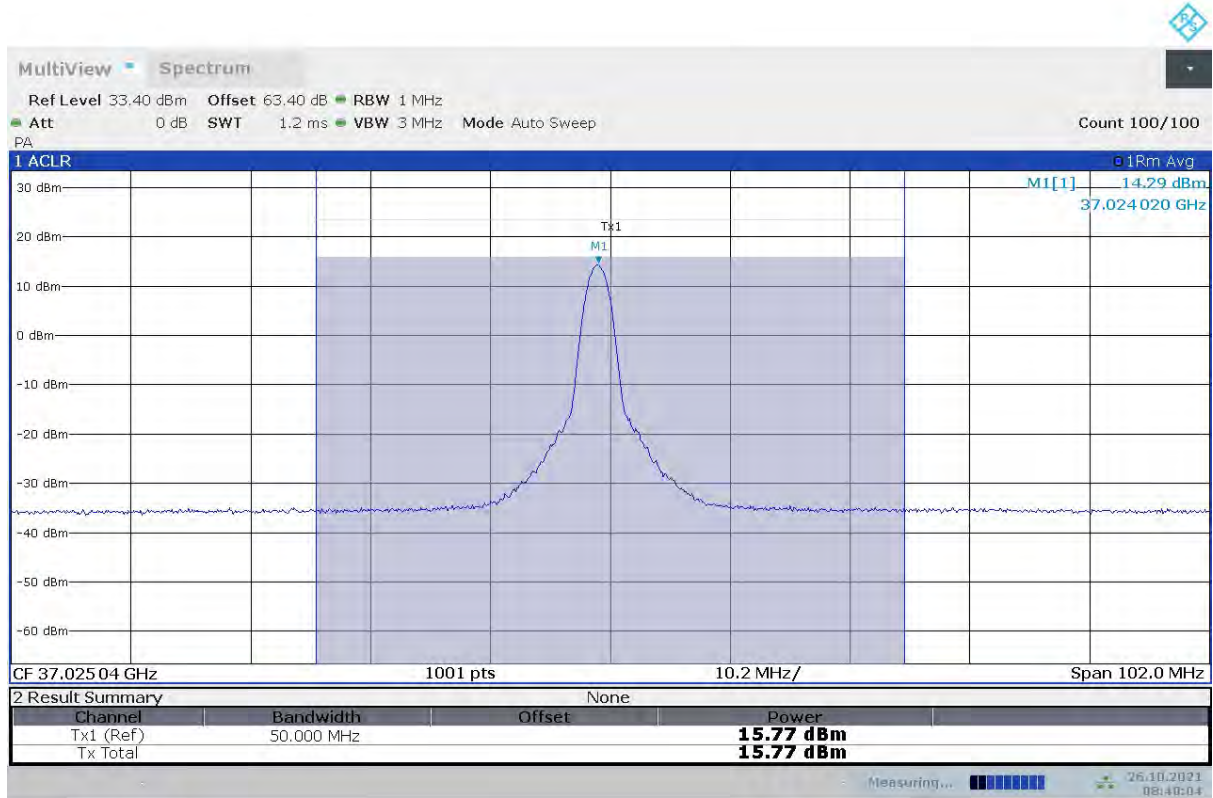


08:45:40 26.10.2021



n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	37025.04	15.77	/	/

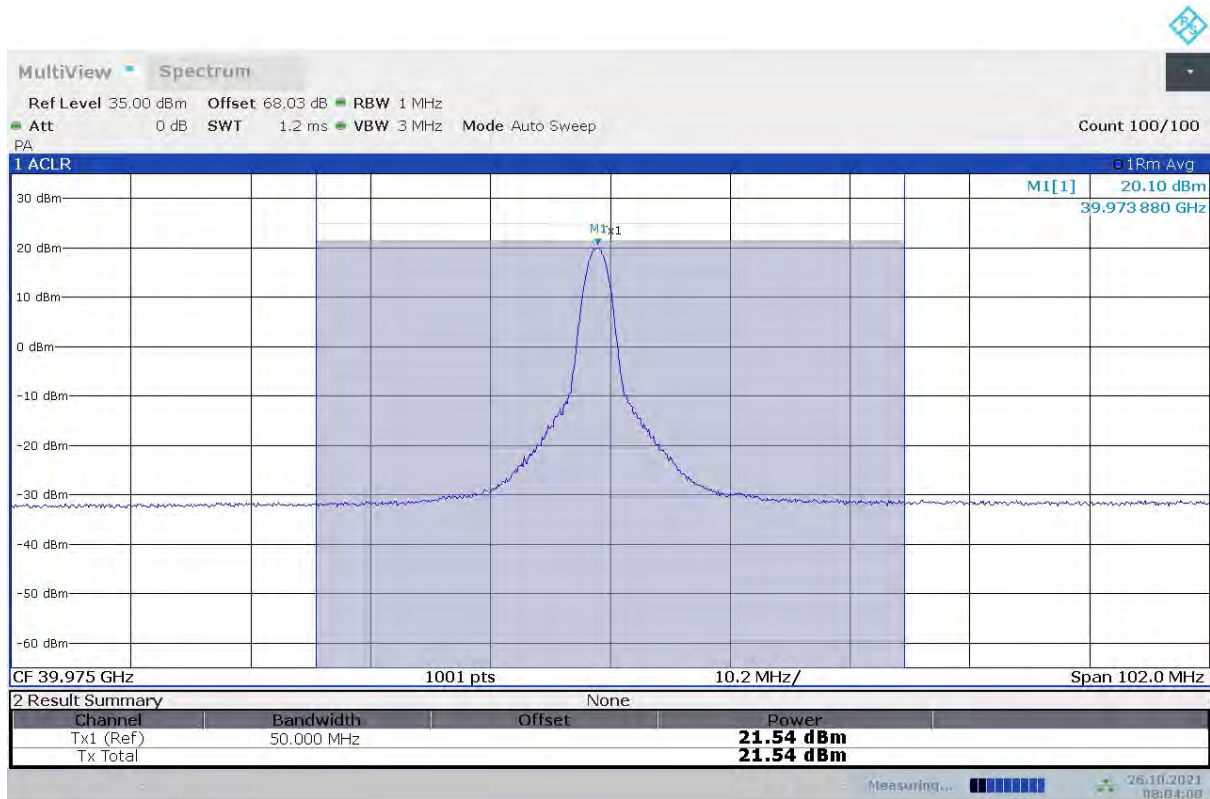
**n260, Module1, 50MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK**



08:40:04 26.10.2021

n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	39975	21.54	/	/

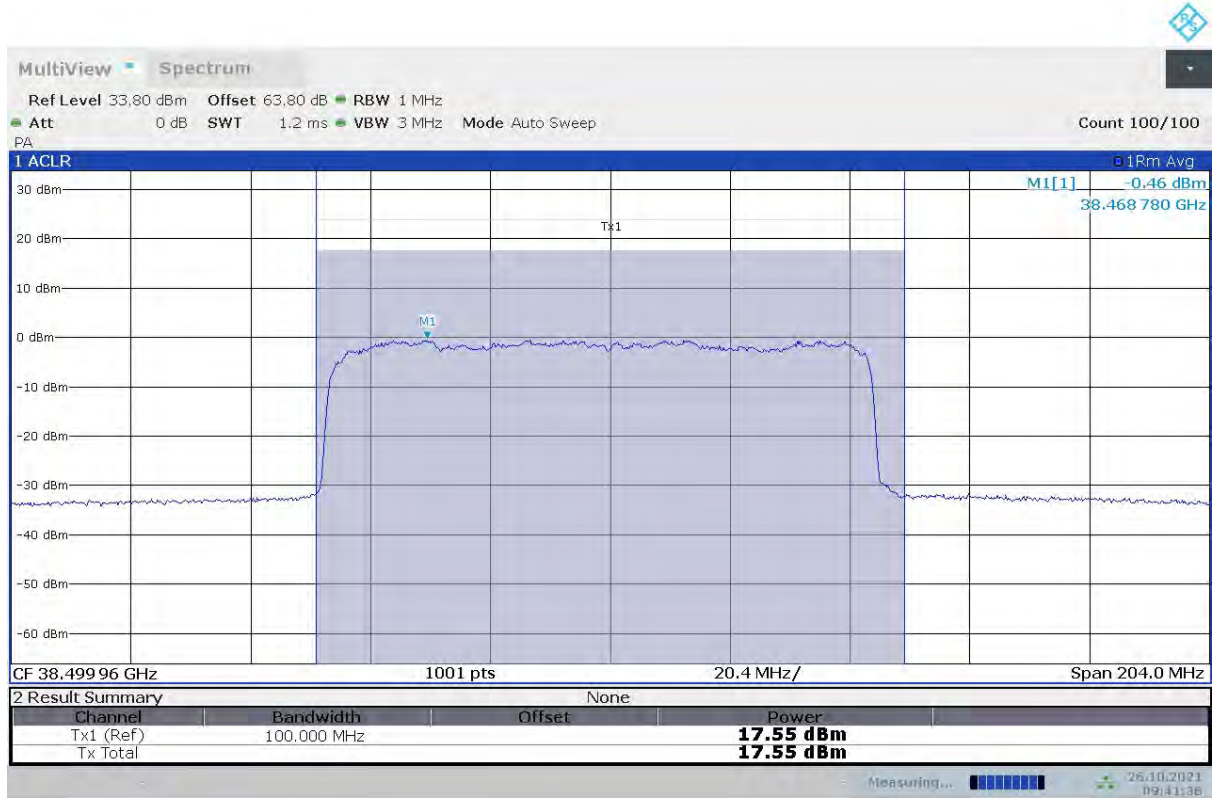
**n260, Module1, 50MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK**



08:04:01 26.10.2021

n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	38499.96	17.55	/	/

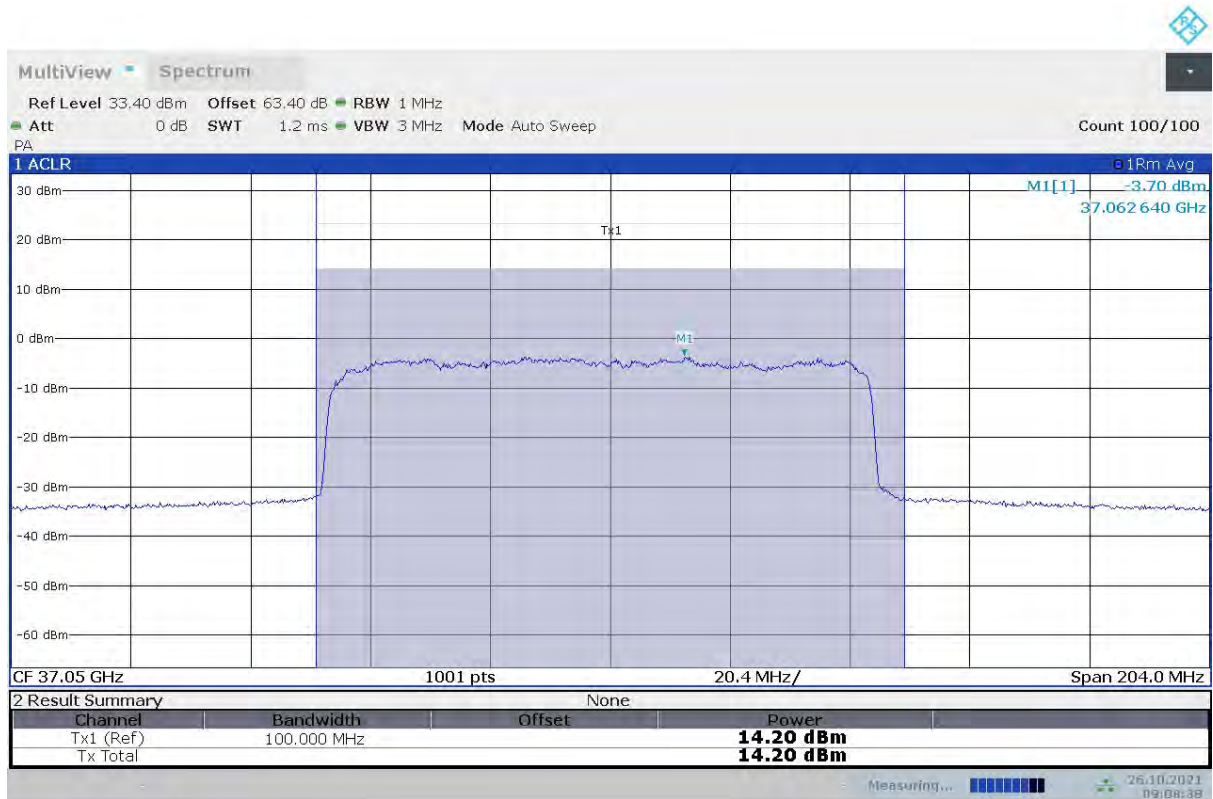
**n260, Module1, 100MHz Bandwidth, 100% RB, MID CHANNEL, QPSK**



09:41:37 26.10.2021

n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	37050	14.20	/	/

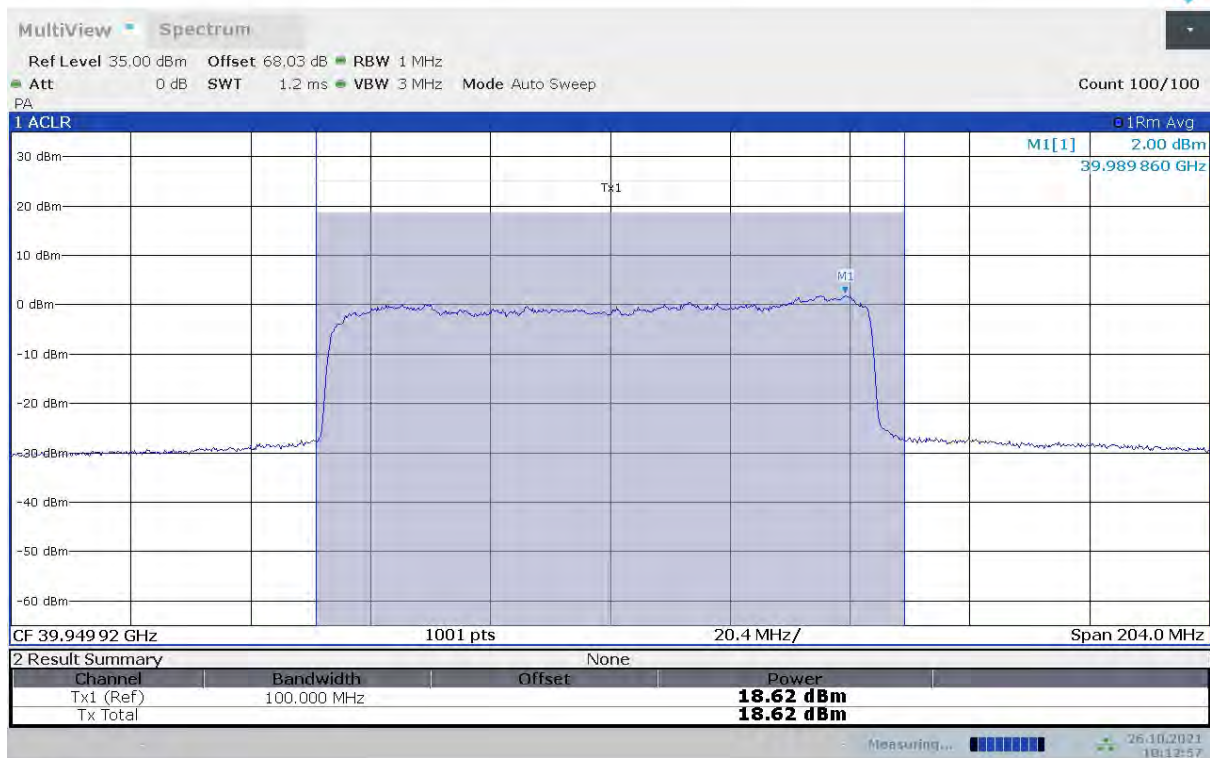
**n260, Module1, 100MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK**



09:08:38 26.10.2021

n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	39949.92	18.62	/	/

**n260, Module1, 100MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK**

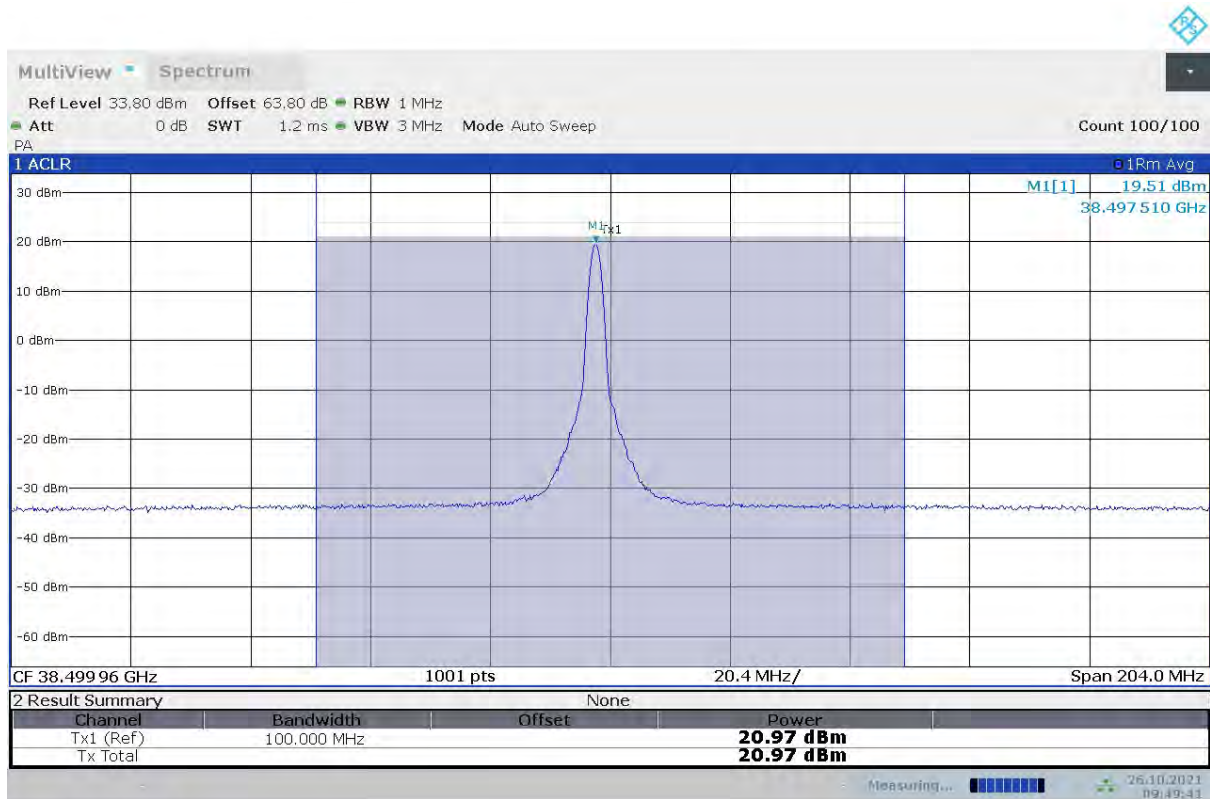


10:12:57 26.10.2021



n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	38499.96	20.97	/	/

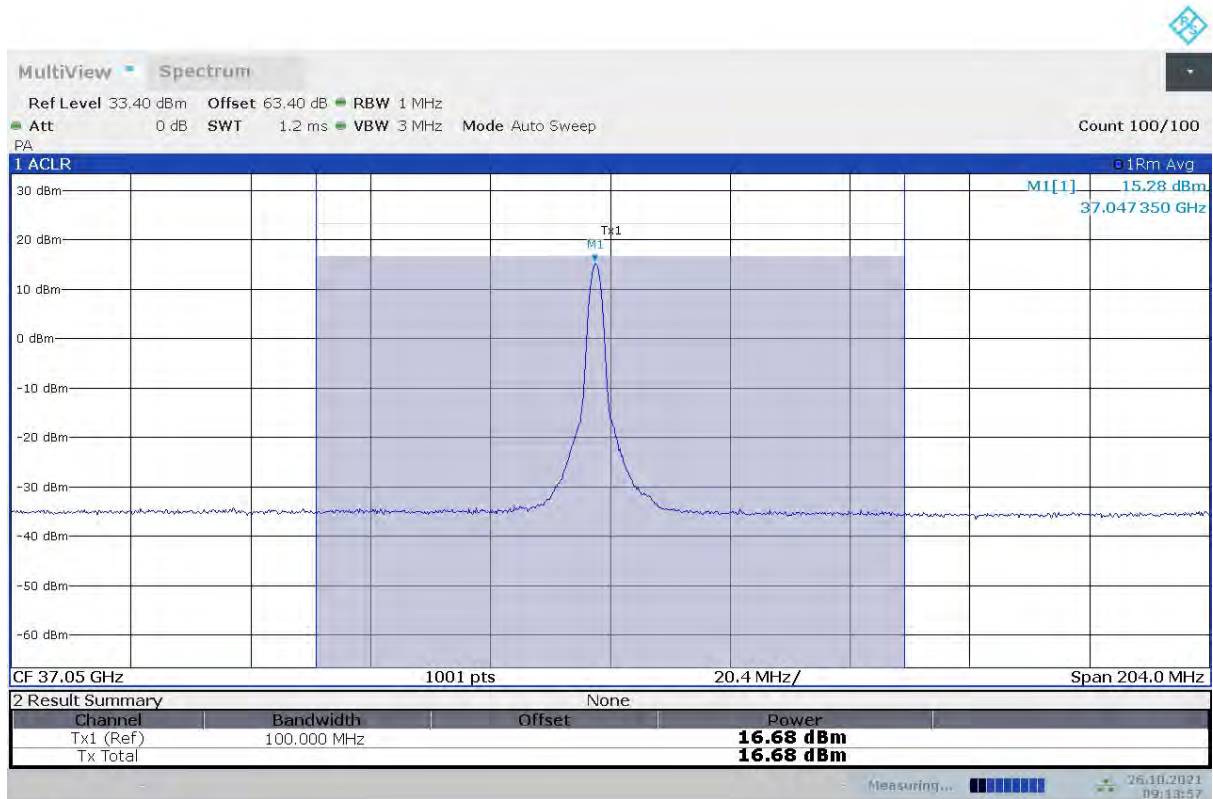
**n260, Module1, 100MHz Bandwidth, 1RB, MID CHANNEL, QPSK**



09:49:42 26.10.2021

n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	37050	16.68	/	/

**n260, Module1, 100MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK**

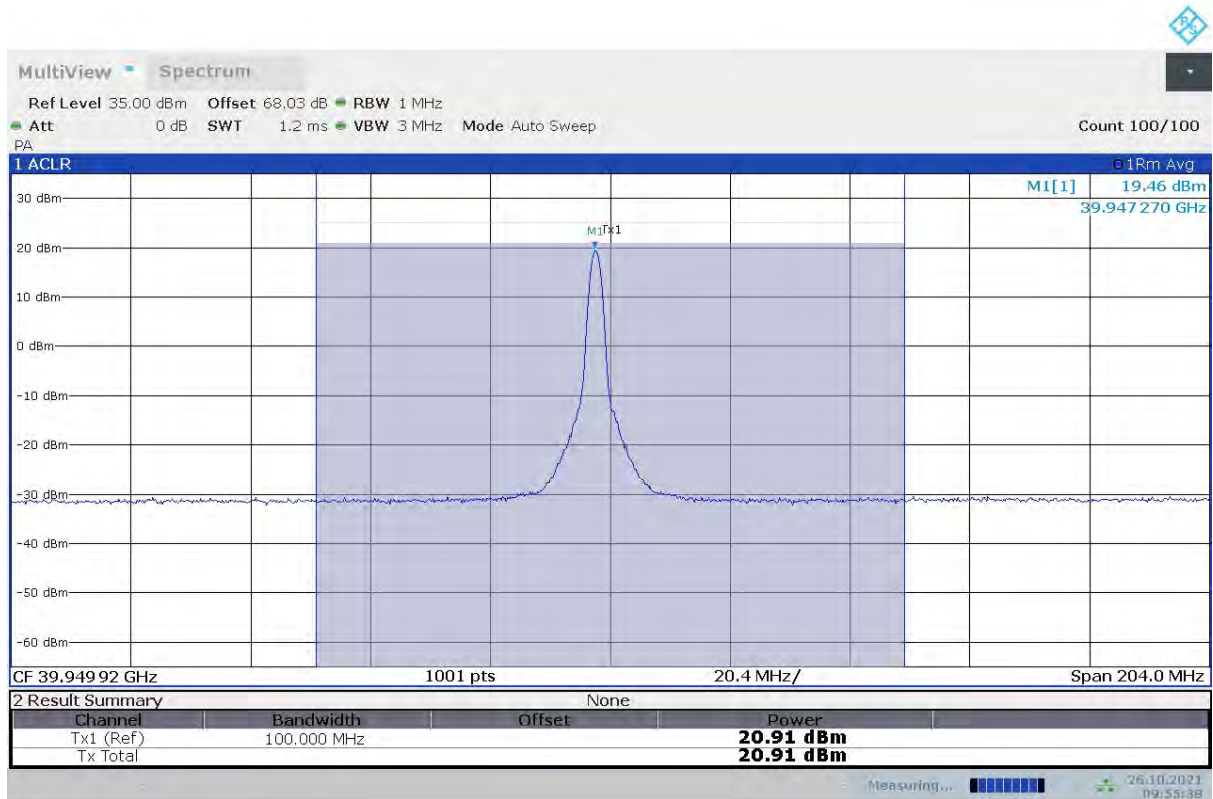


09:13:57 26.10.2021



n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	39949.92	20.91	/	/

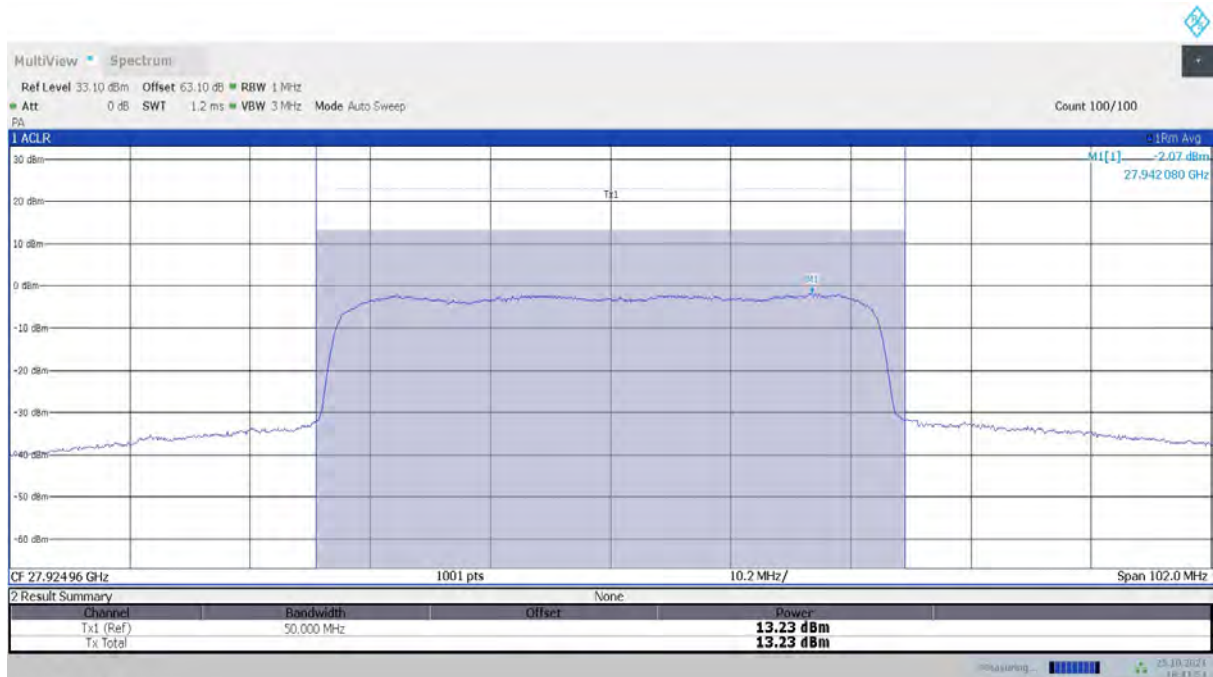
**n260, Module1, 100MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK**



09:55:39 26.10.2021

n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27924.96	<b>13.23</b>	11.74	8.16

### n261, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, QPSK



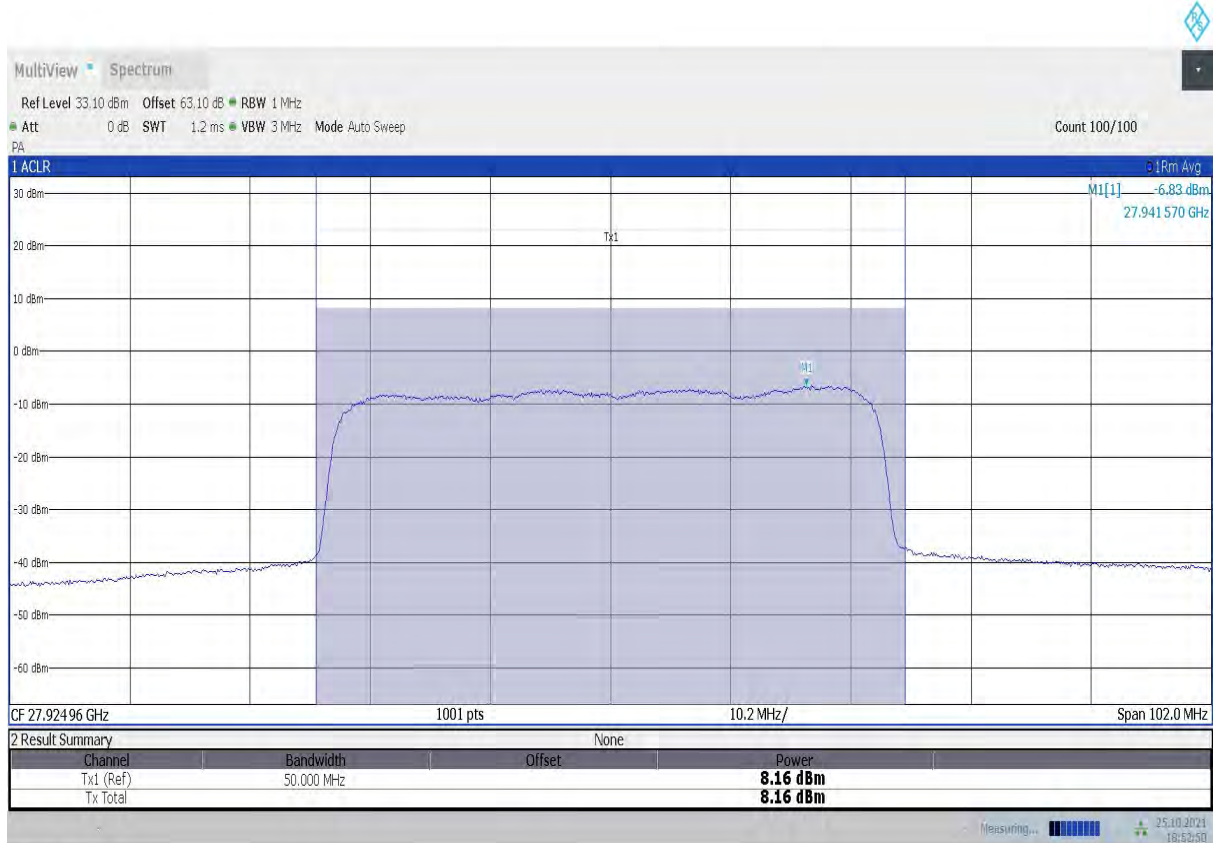
18:41:54 25.10.2021

### n261, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, 16QAM



18:47:30 25.10.2021

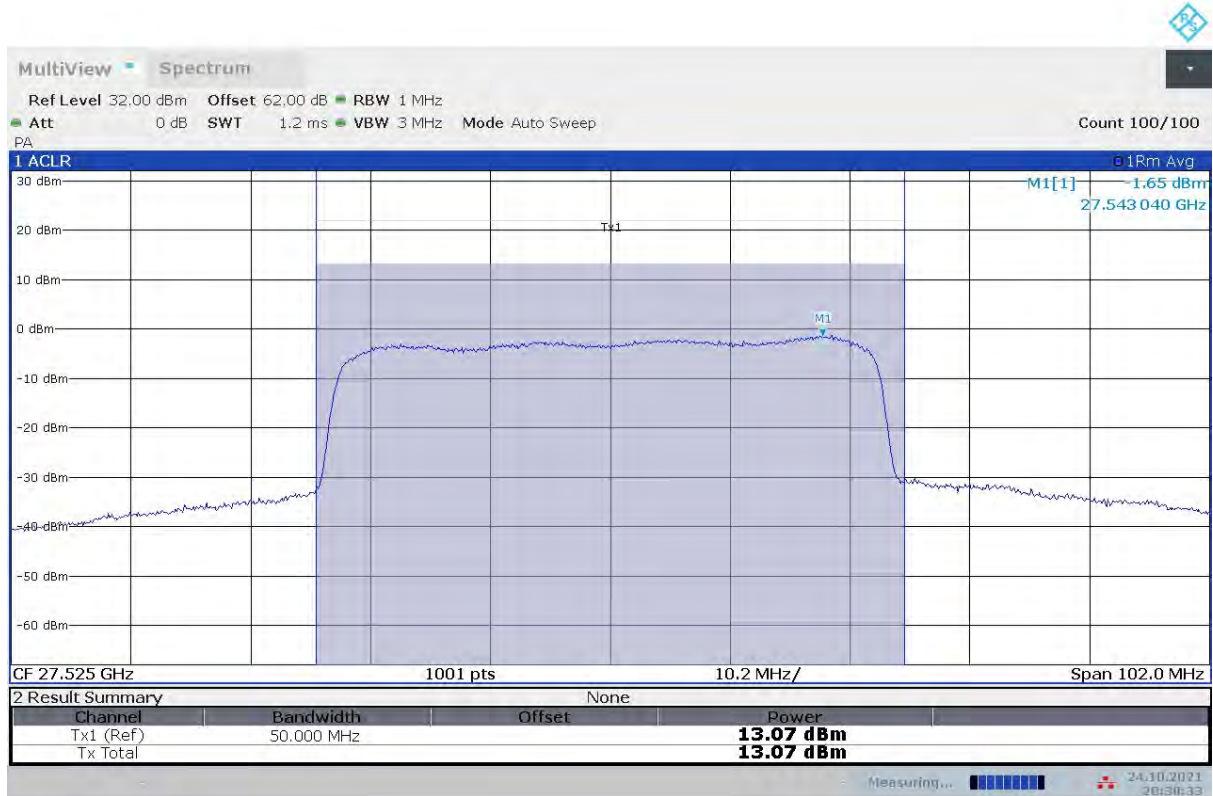
**n261, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, 64QAM**



18:52:51 25.10.2021

n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27525	13.07	/	/

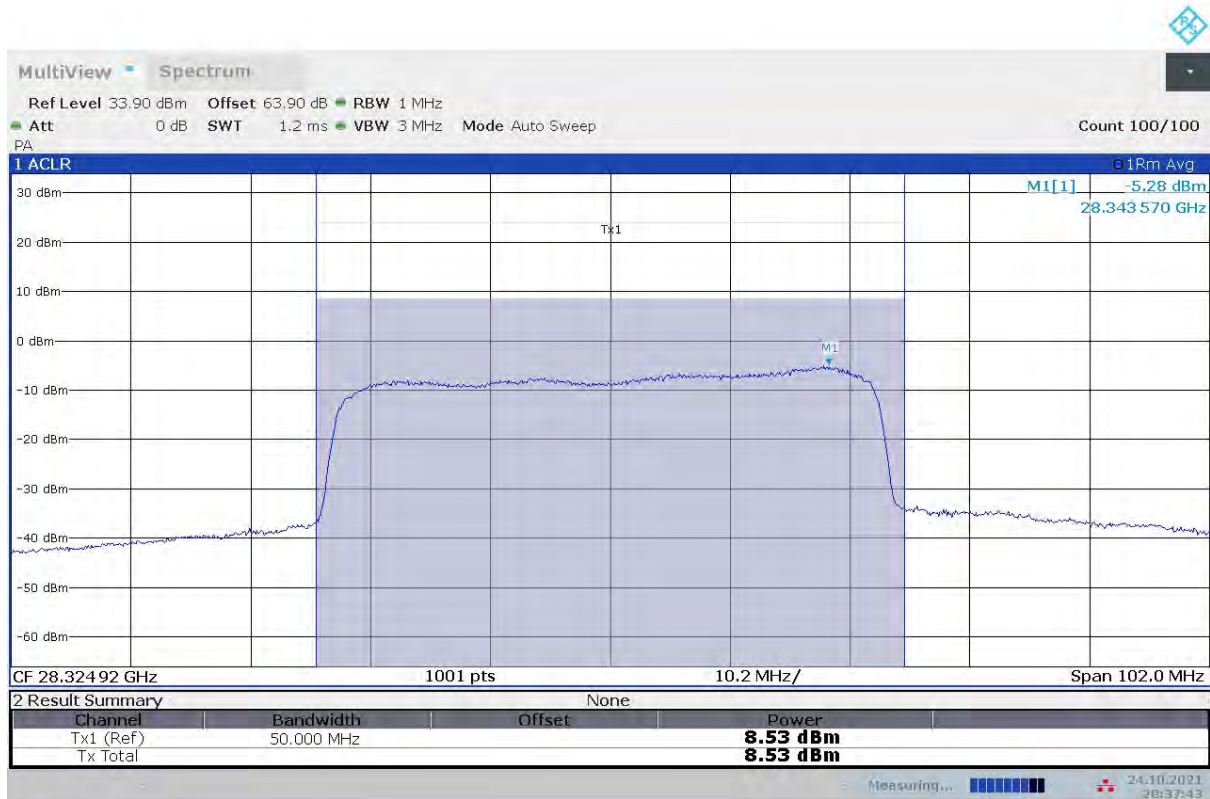
**n261, Module0, 50MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK**



20:30:34 24.10.2021

n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	28324.92	8.53	/	/

**n261, Module0, 50MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK**

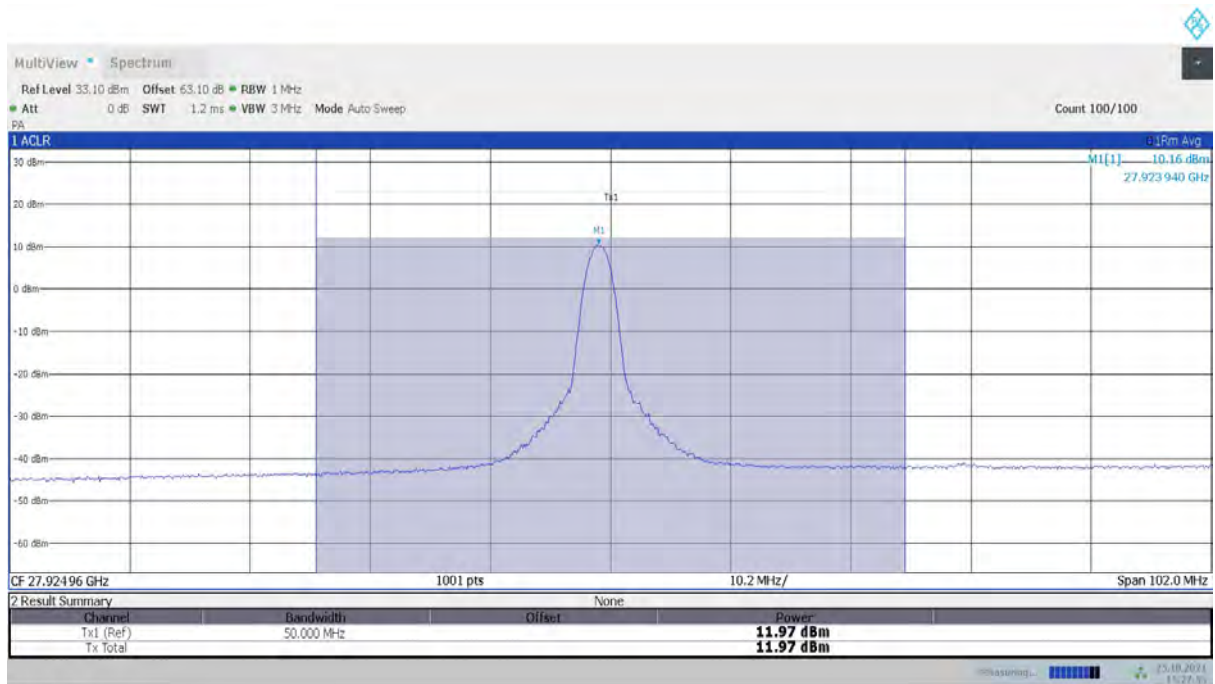


20:37:44 24.10.2021



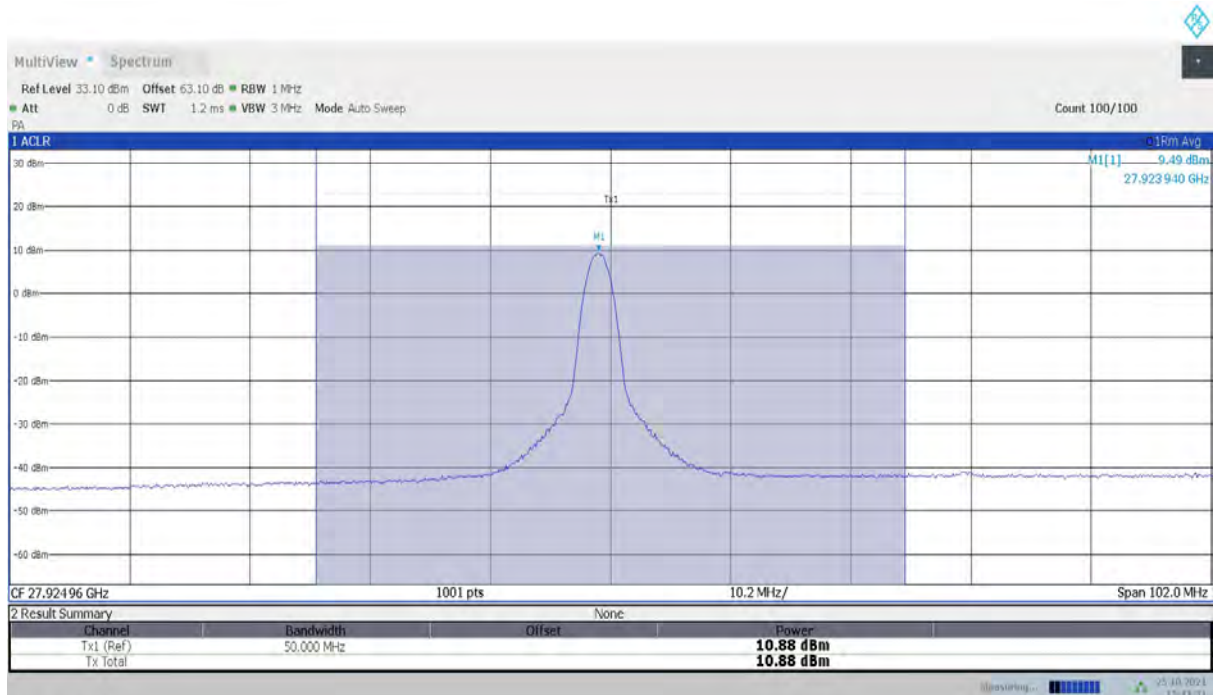
n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	27924.96	11.97	10.88	8.14

**n261, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, QPSK**



15:27:55 25.10.2021

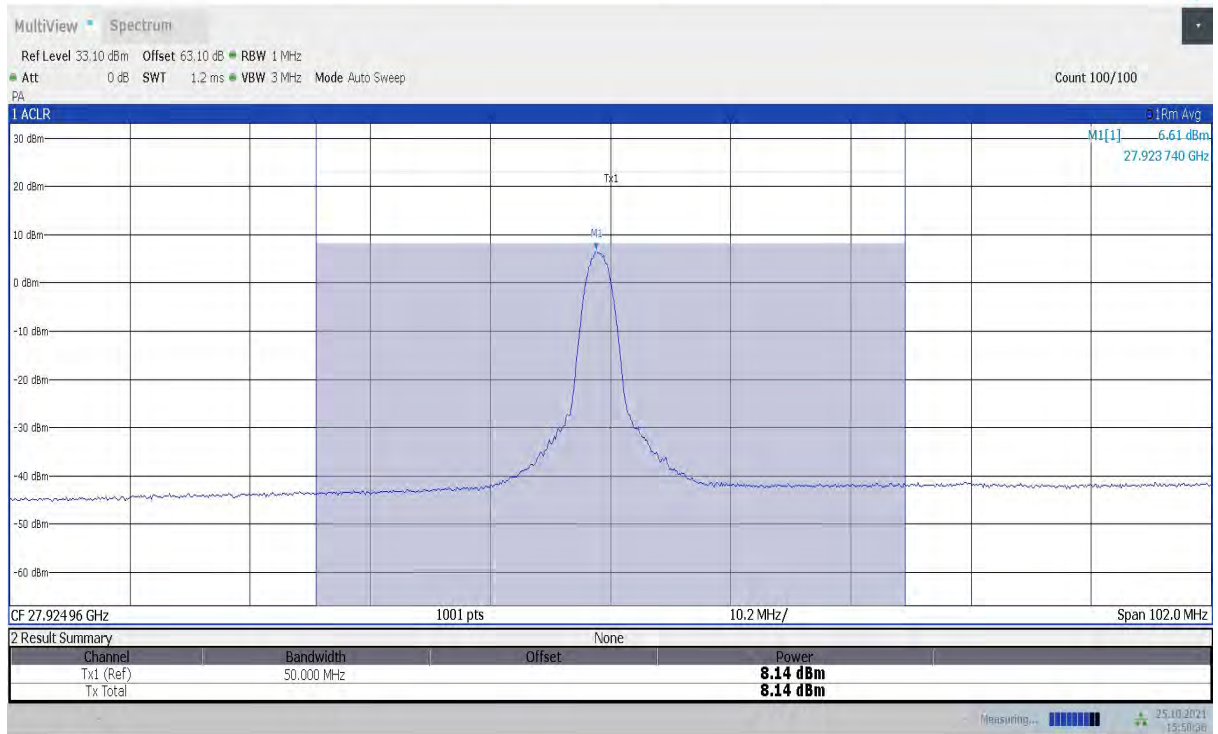
**n261, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, 16QAM**



15:41:31 25.10.2021



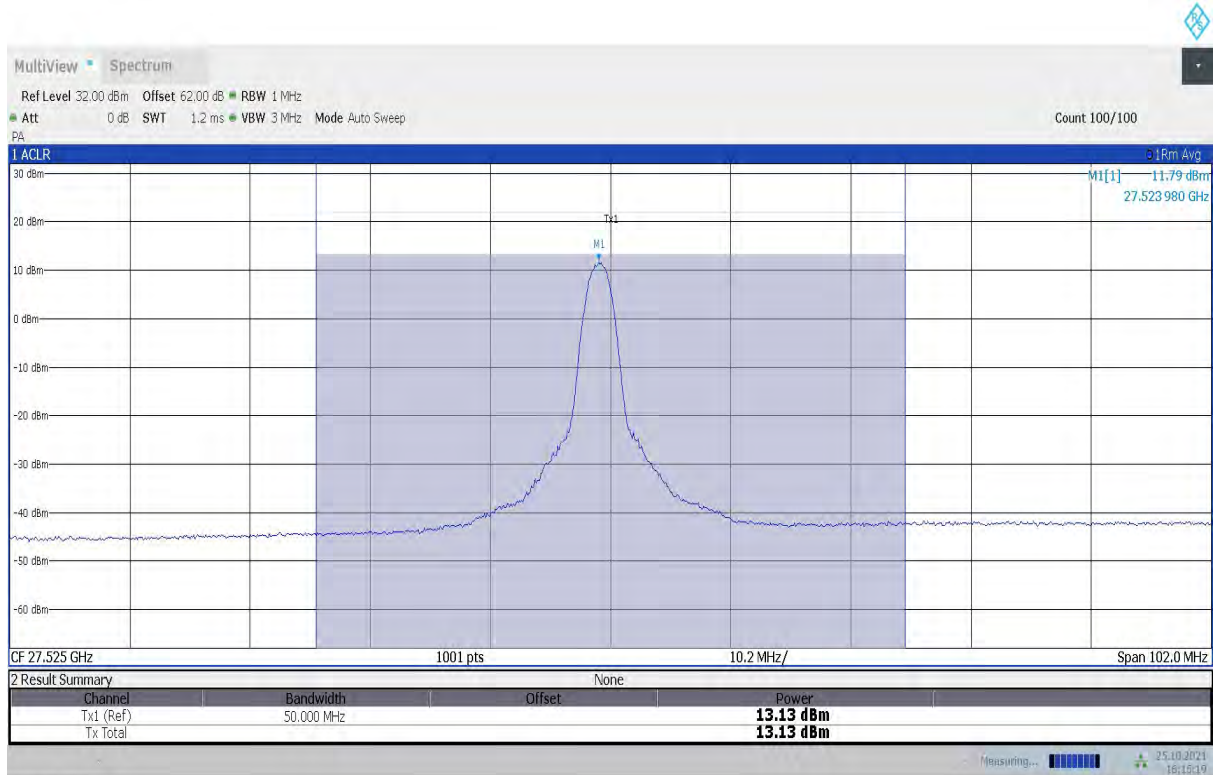
n261, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, 64QAM



15:50:36 25.10.2021

n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	27525	13.13	/	/

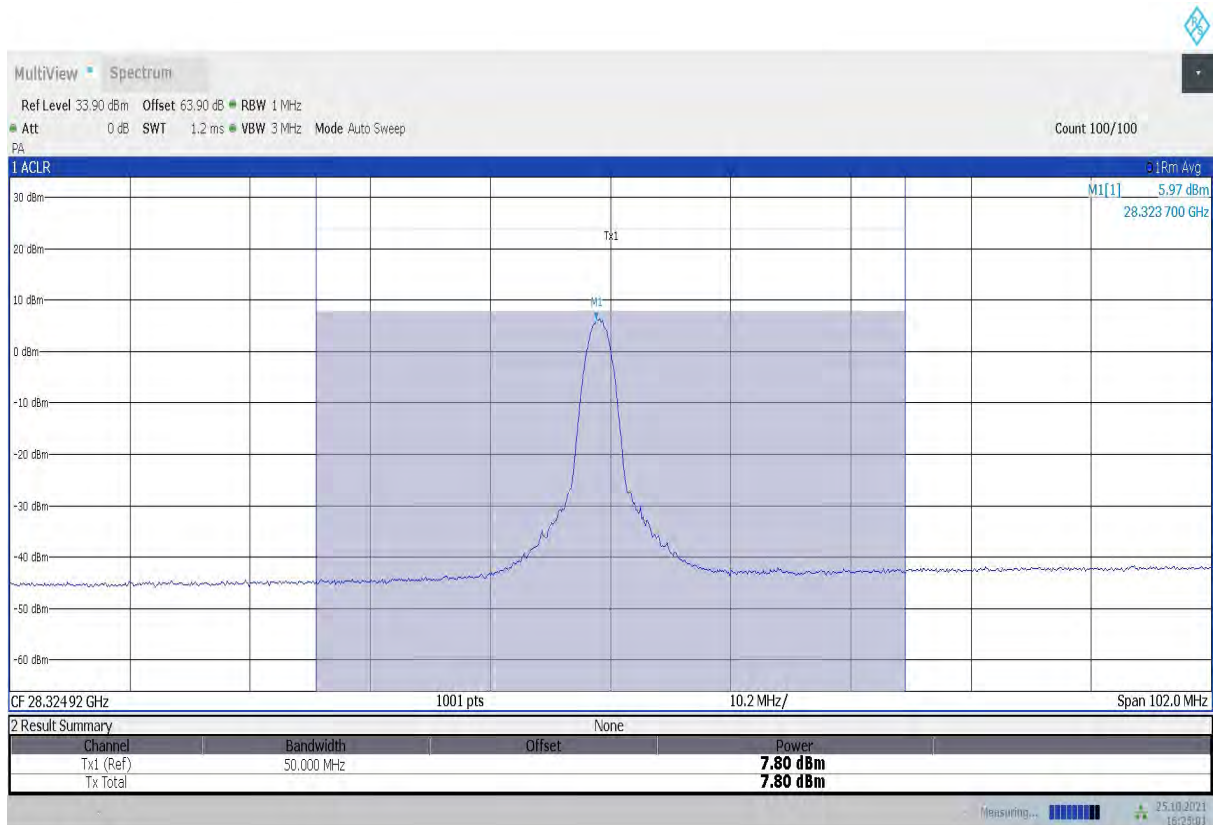
**n261, Module0, 50MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK**



16:15:20 25.10.2021

n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	28324.92	7.80	/	/

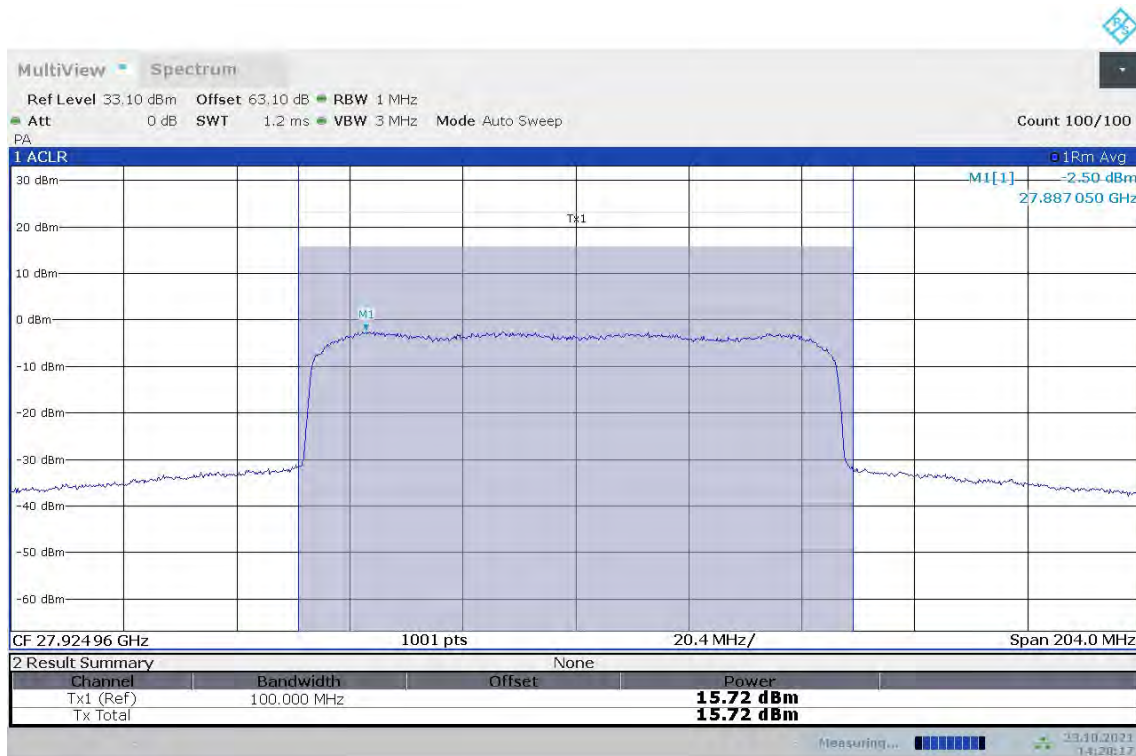
**n261, Module0, 50MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK**



16:25:02 25.10.2021

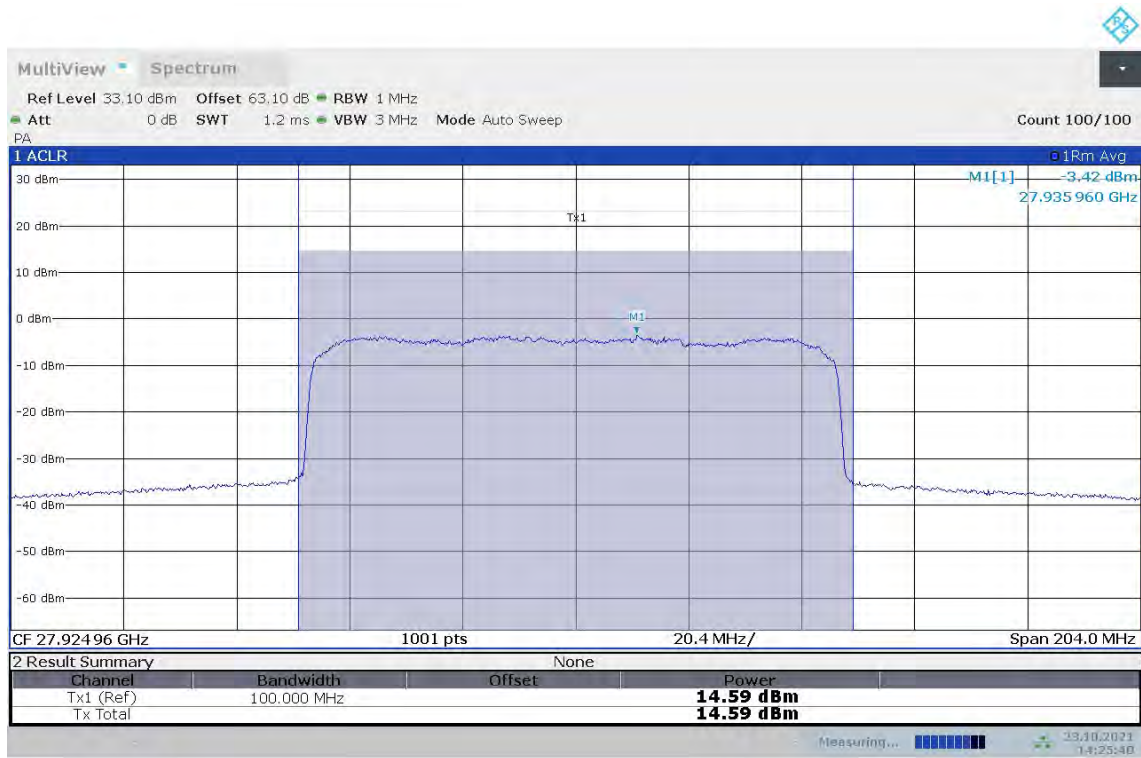
n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	27924.96	15.72	14.59	12.64

**n261, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, QPSK**



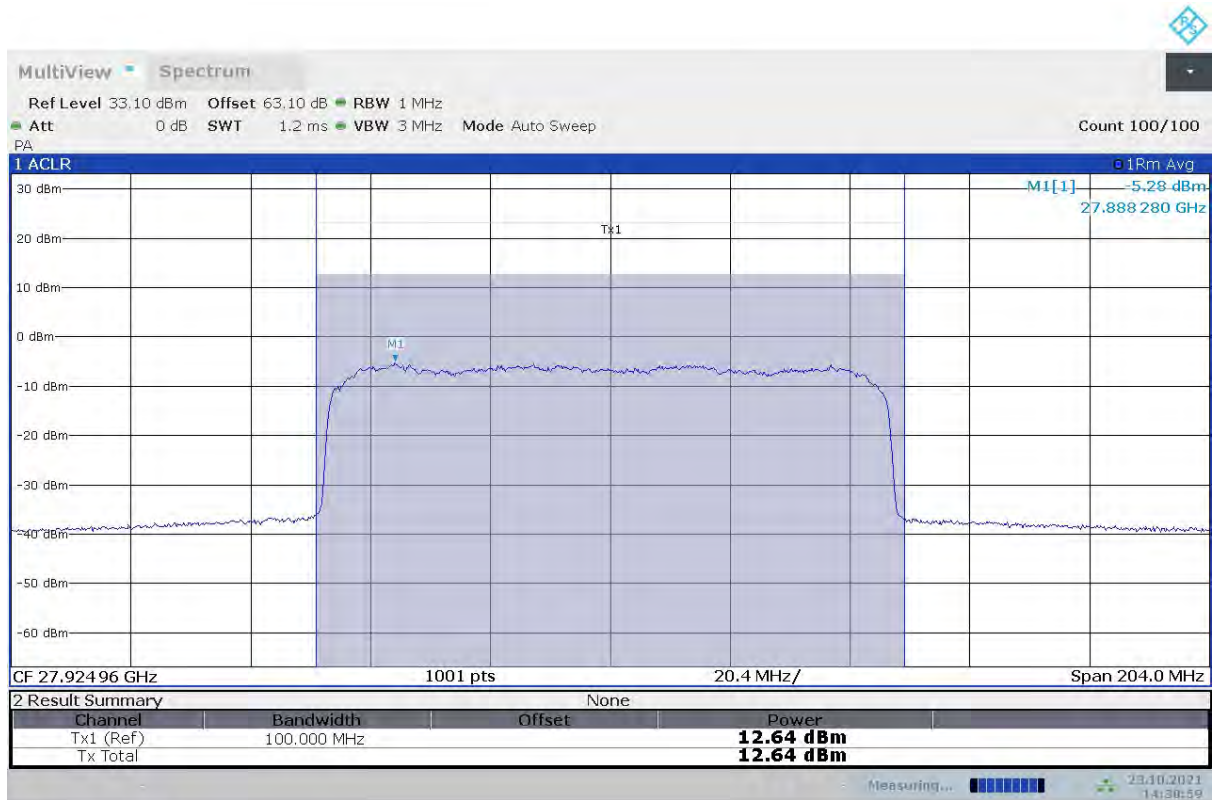
14:20:18 23.10.2021

**n261, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, 16QAM**



14:25:40 23.10.2021

n261, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, 64QAM

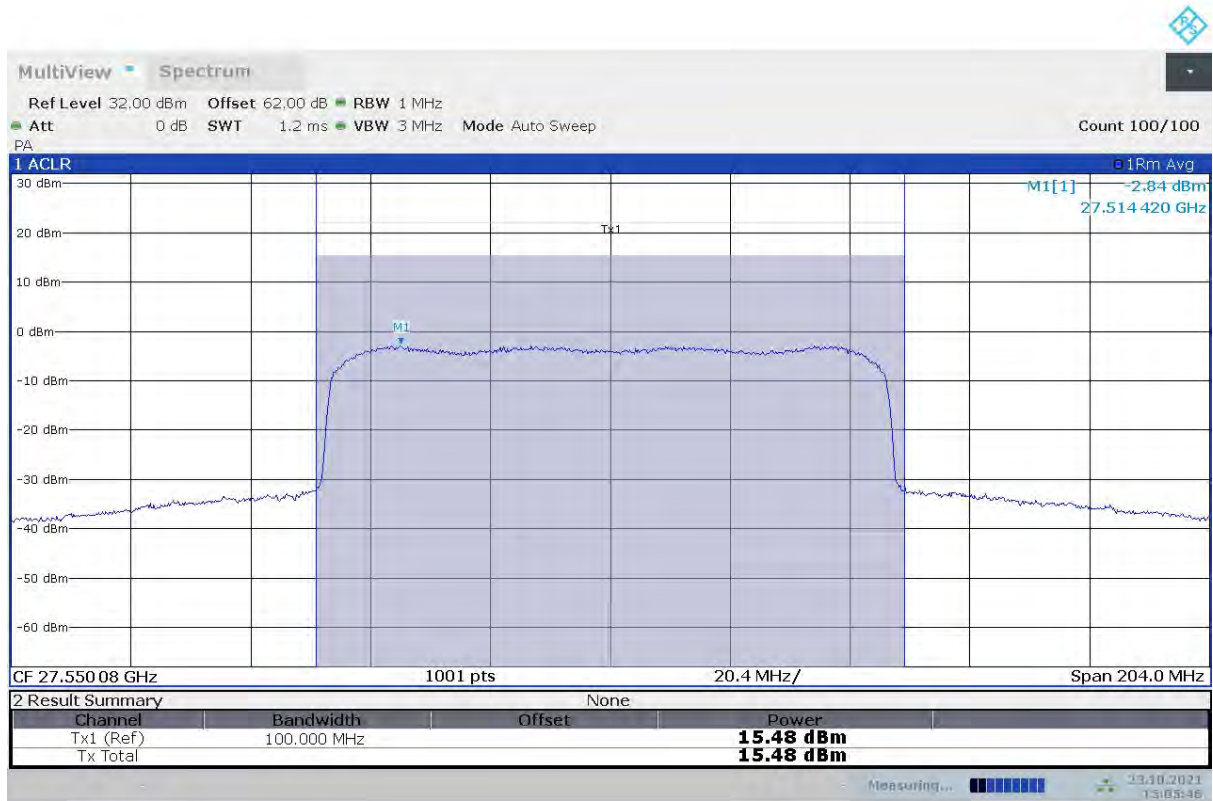


14:31:00 23.10.2021



n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	27550.08	15.48	/	/

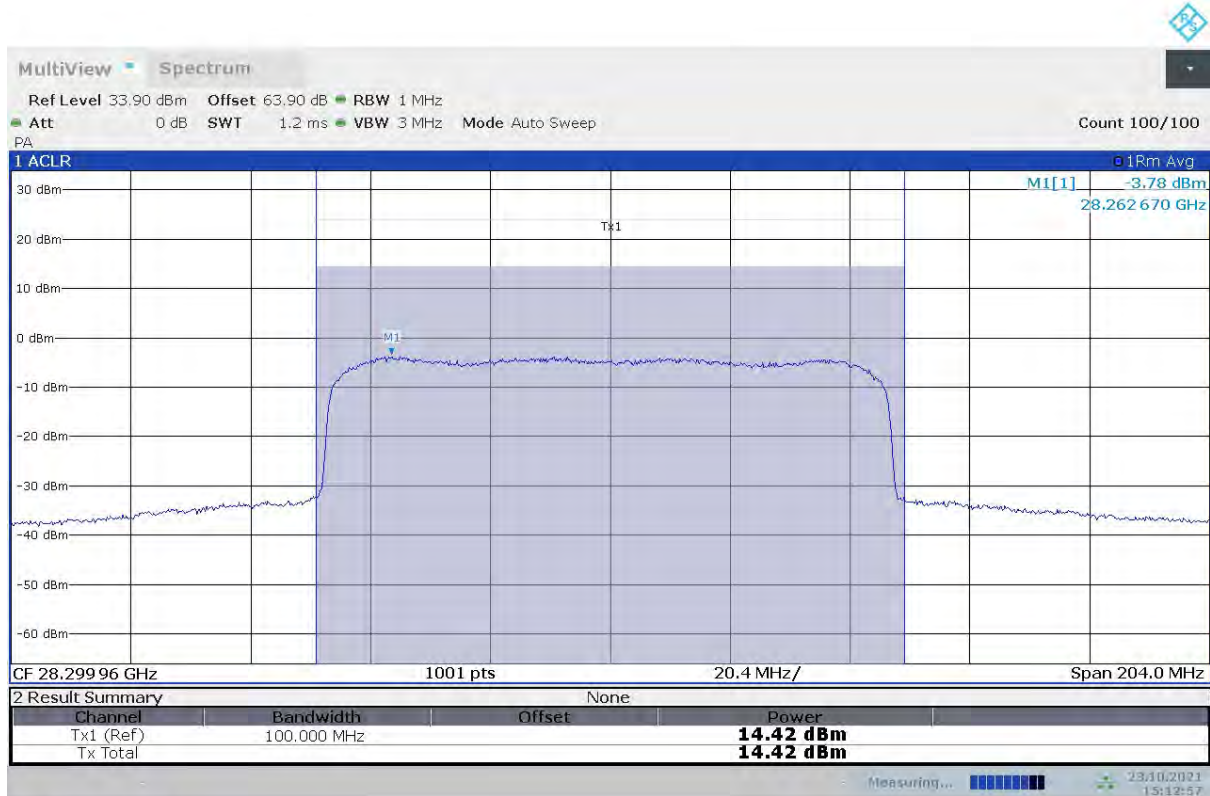
**n261, Module0, 100MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK**



15:05:47 23.10.2021

n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	28299.96	14.42	/	/

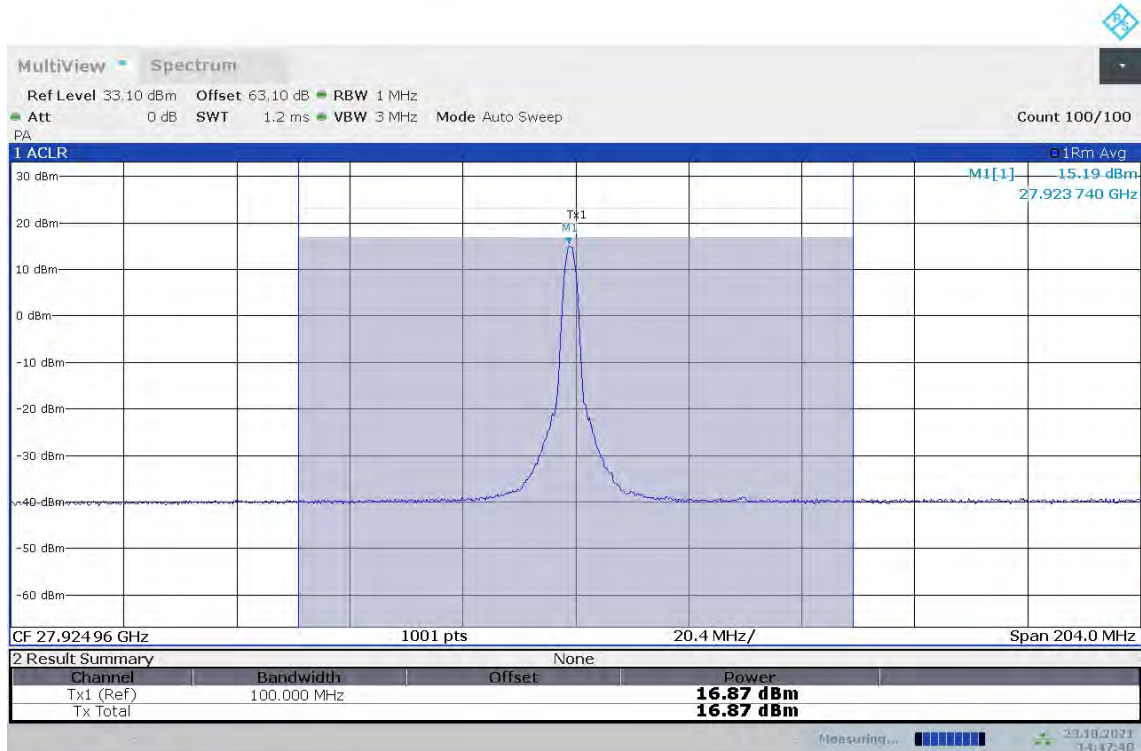
**n261, Module0, 100MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK**



15:12:58 23.10.2021

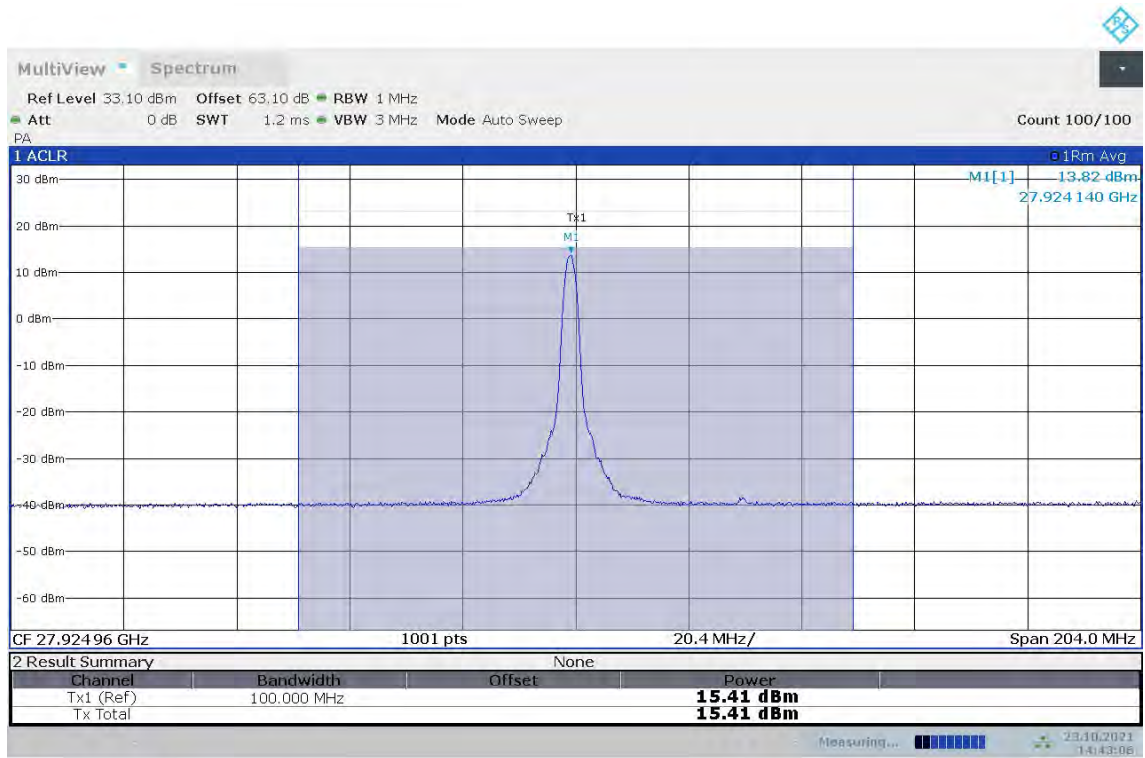
n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	27924.96	16.87	15.41	12.49

**n261, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, QPSK**



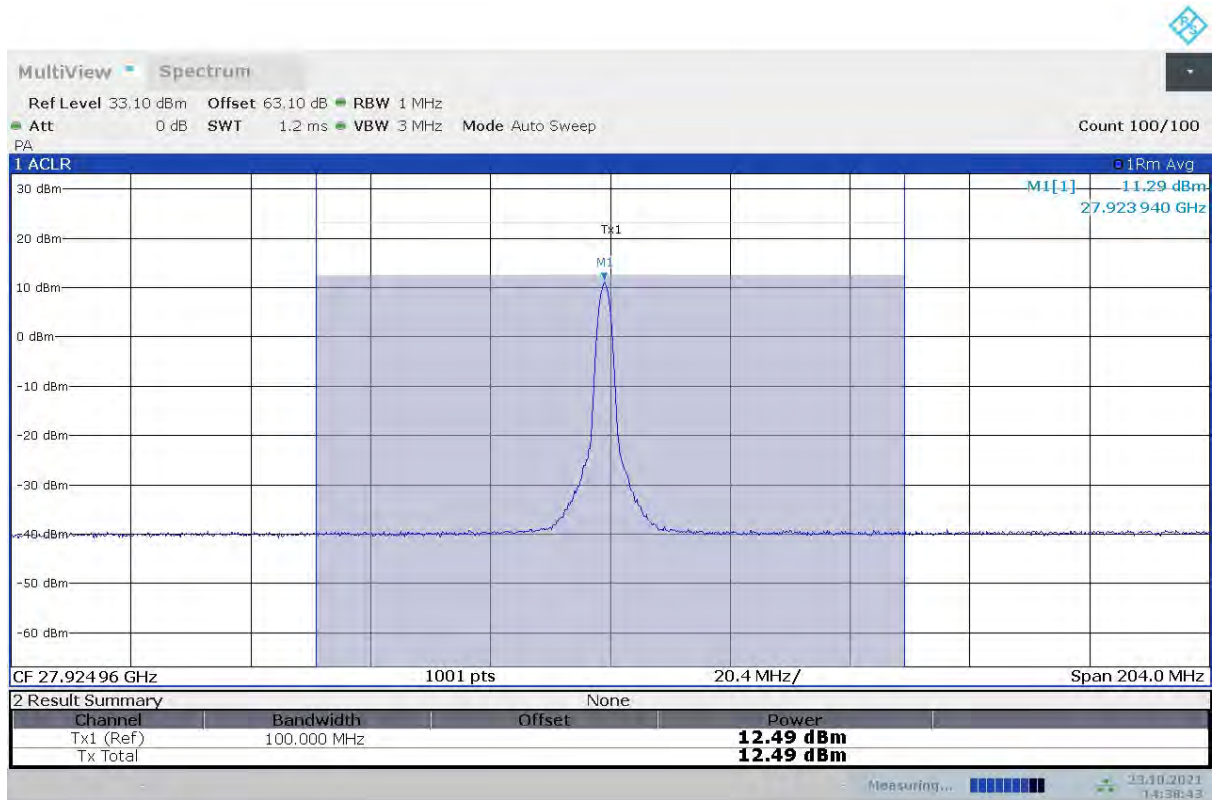
14:47:41 23.10.2021

**n261, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, 16QAM**



14:43:07 23.10.2021

n261, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, 64QAM

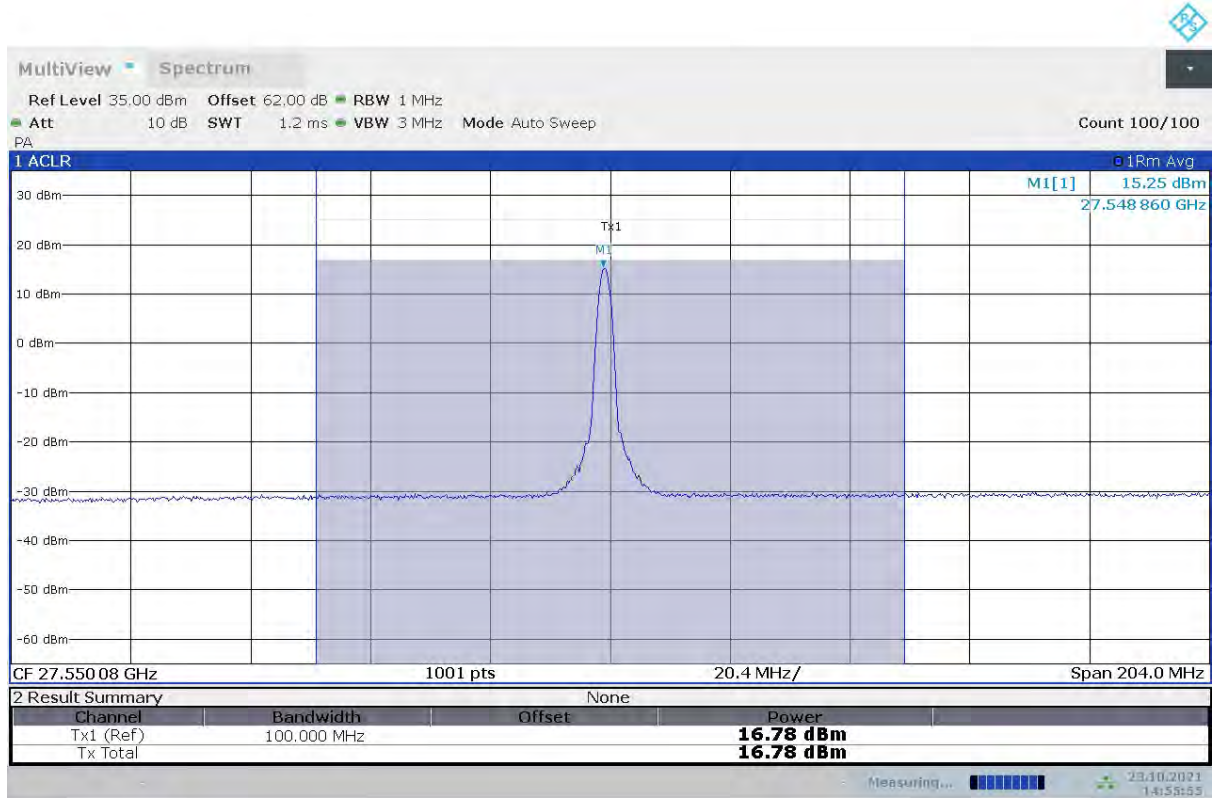


14:38:43 23.10.2021



n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	27550.08	16.78	/	/

**n261, Module0, 100MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK**

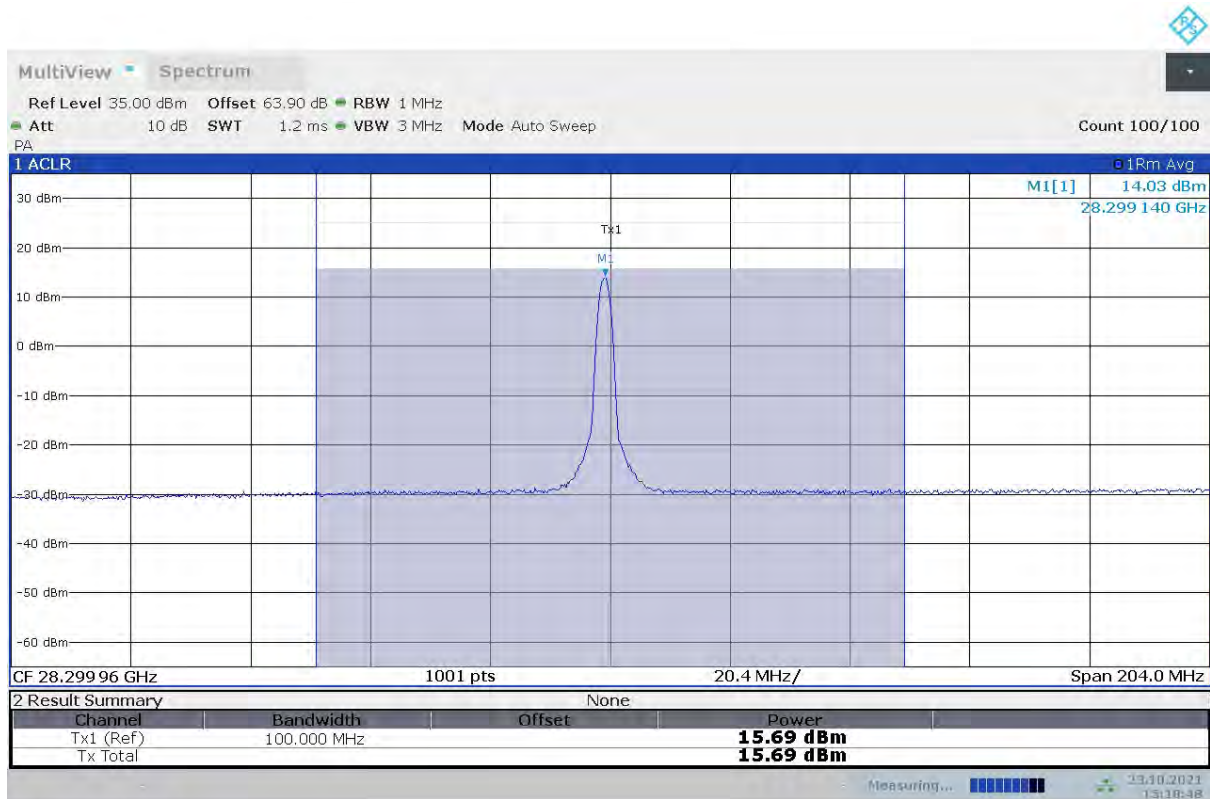


14:55:55 23.10.2021



n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	28299.96	15.69	/	/

**n261, Module0, 100MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK**



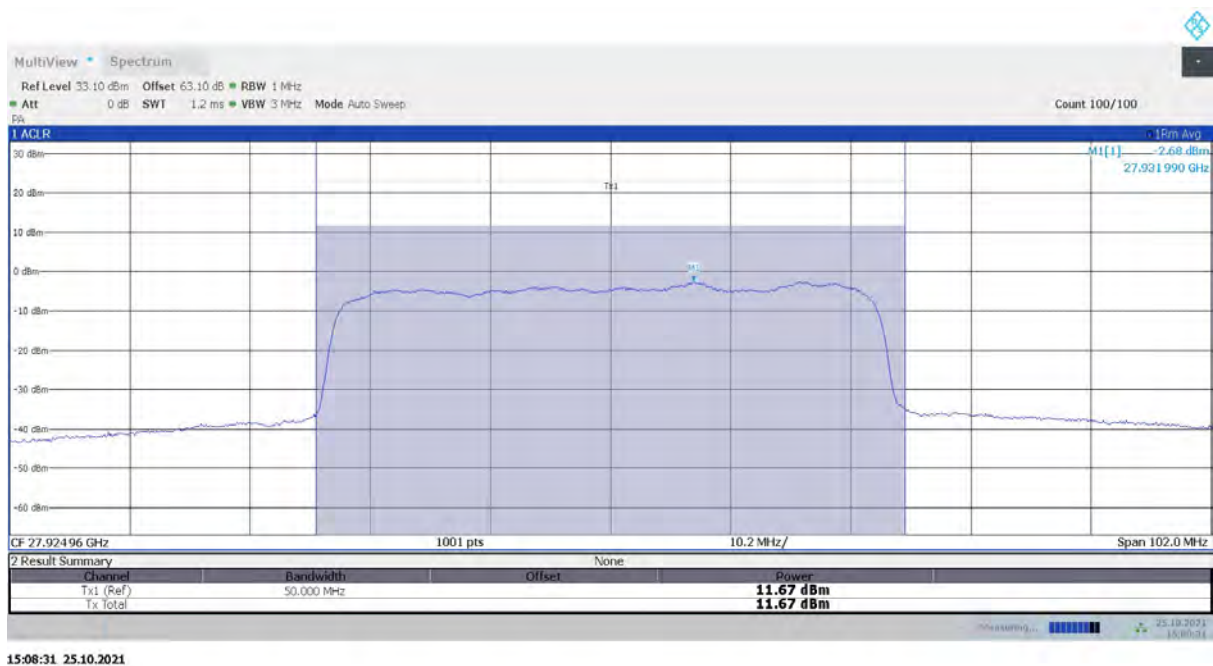
15:18:48 23.10.2021

n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27924.96	13.20	11.67	9.43

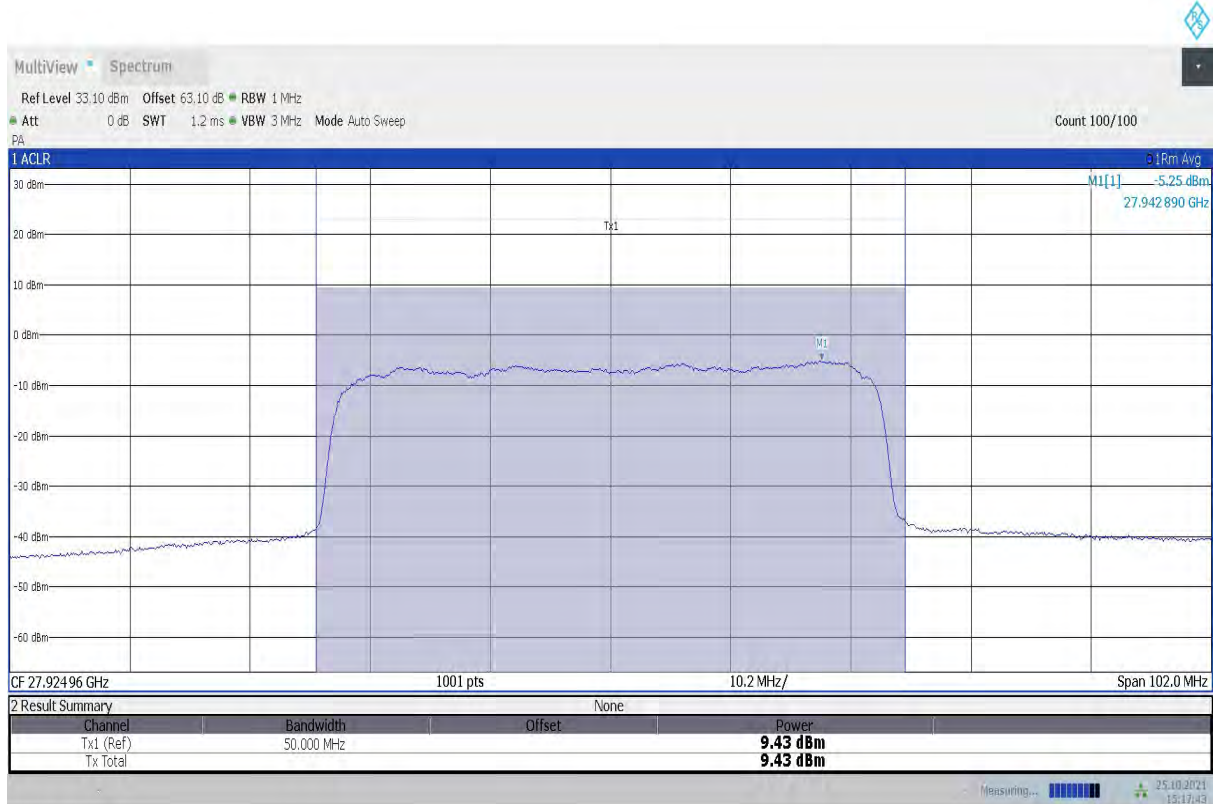
### n261, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, QPSK



### n261, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, 16QAM



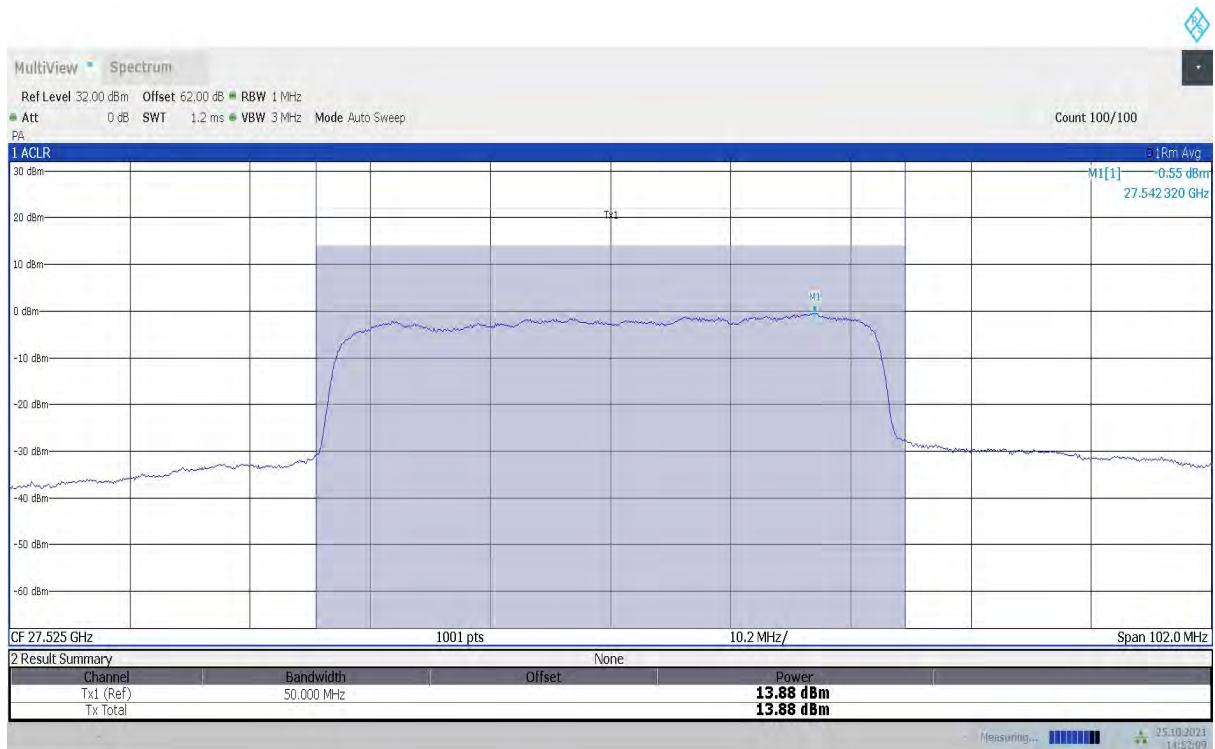
**n261, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, 64QAM**



15:17:43 25.10.2021

n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27525	13.88	/	/

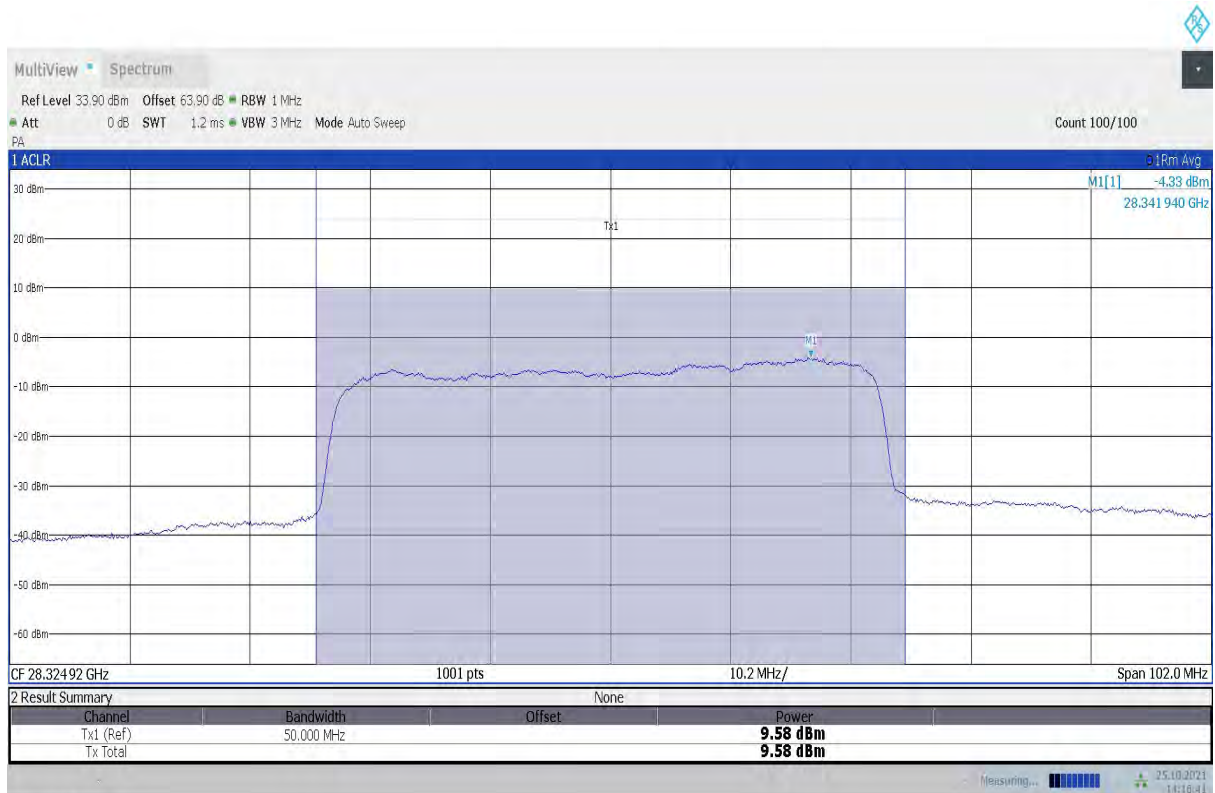
**n261, Module0, 50MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK**



14:52:10 25.10.2021

n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	28324.92	9.58	/	/

**n261, Module0, 50MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK**

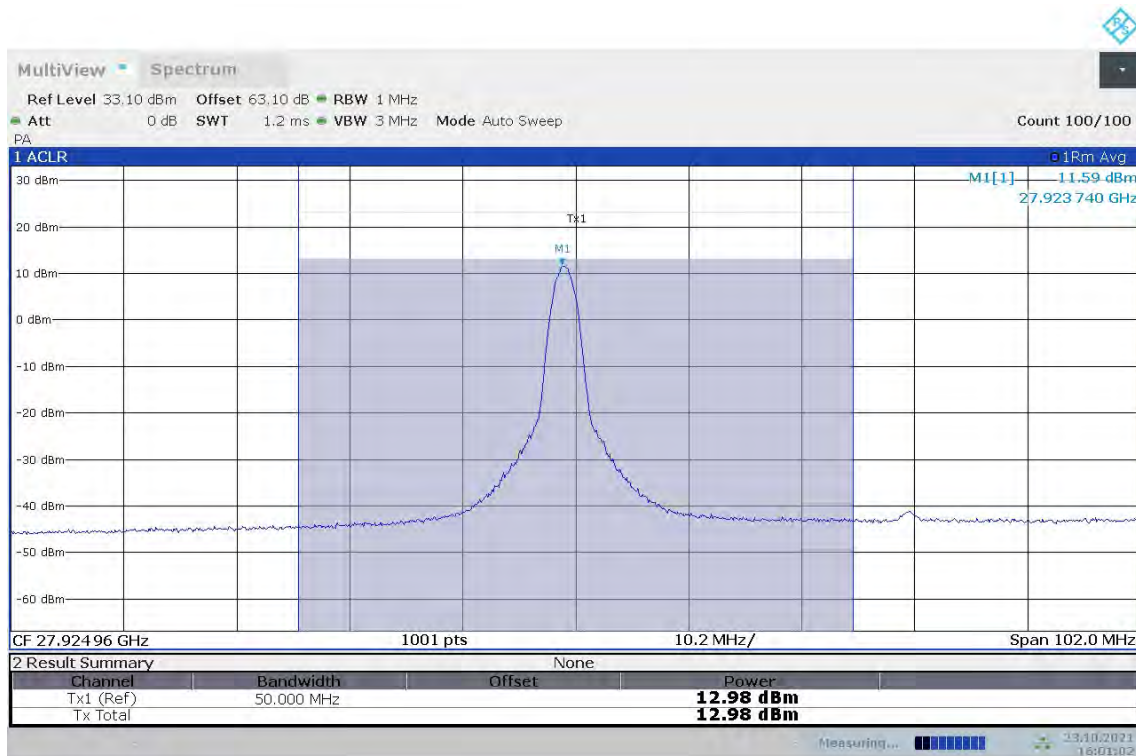


14:16:41 25.10.2021



n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	27924.96	12.98	11.20	9.09

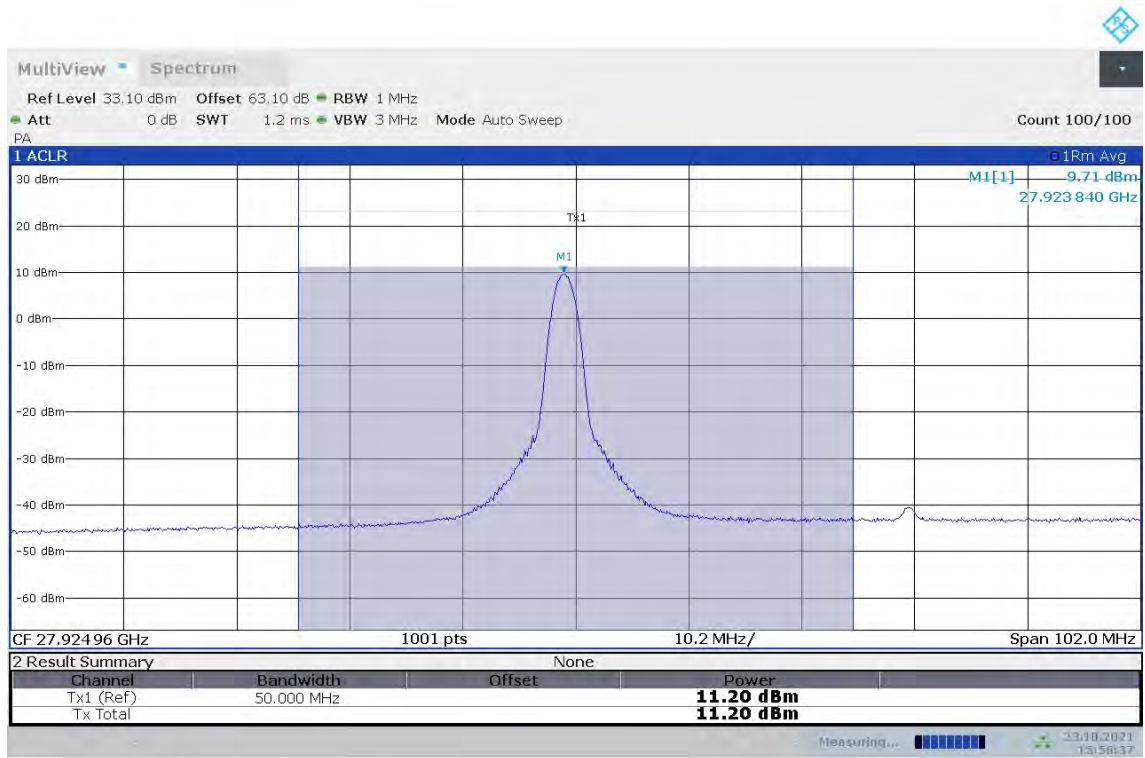
**n261, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, QPSK**



16:01:03 23.10.2021

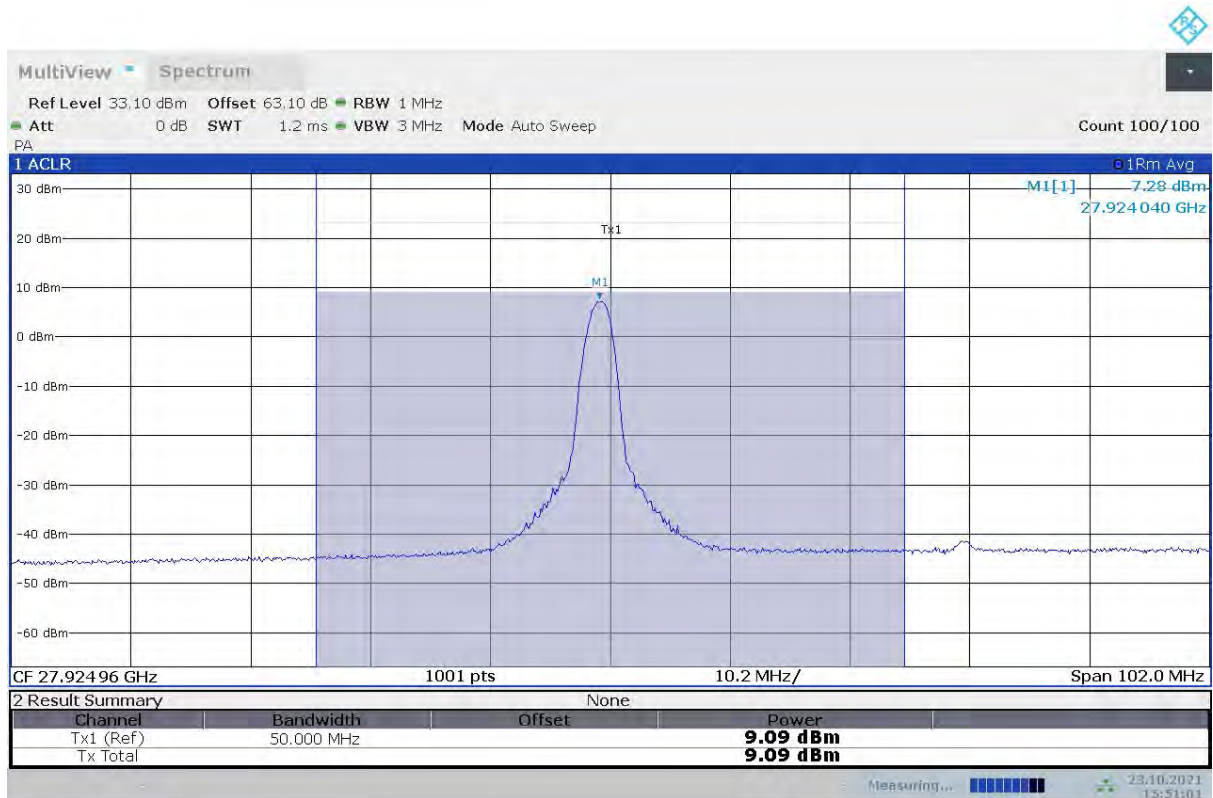


n261, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, 16QAM



15:56:38 23.10.2021

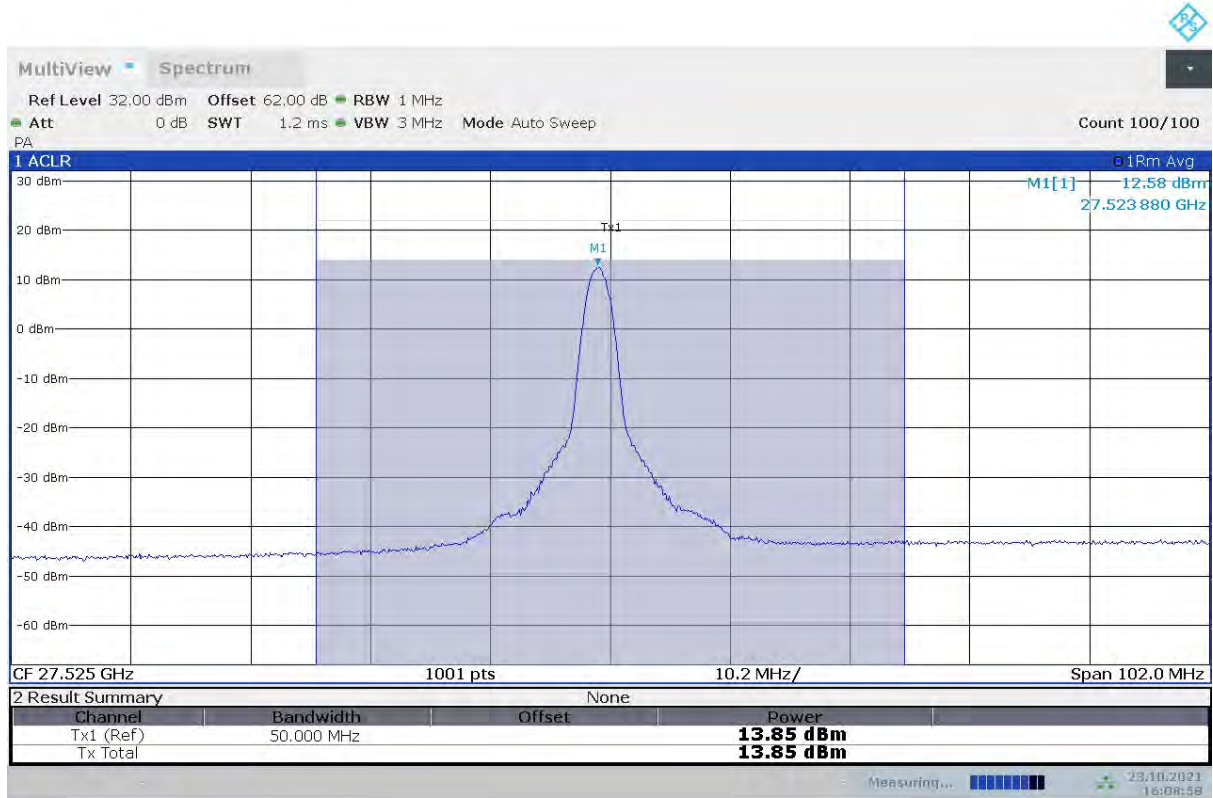
n261, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, 64QAM



15:51:02 23.10.2021

n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	27525	13.85	/	/

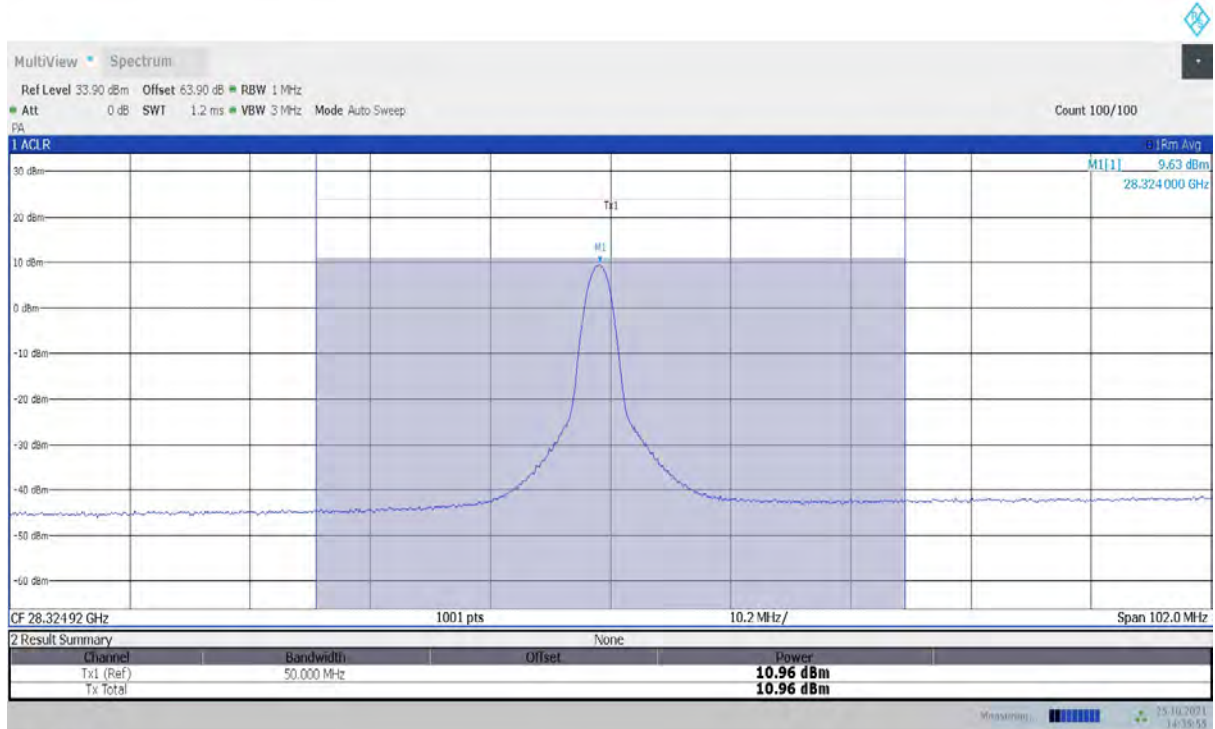
**n261, Module0, 50MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK**



16:08:58 23.10.2021

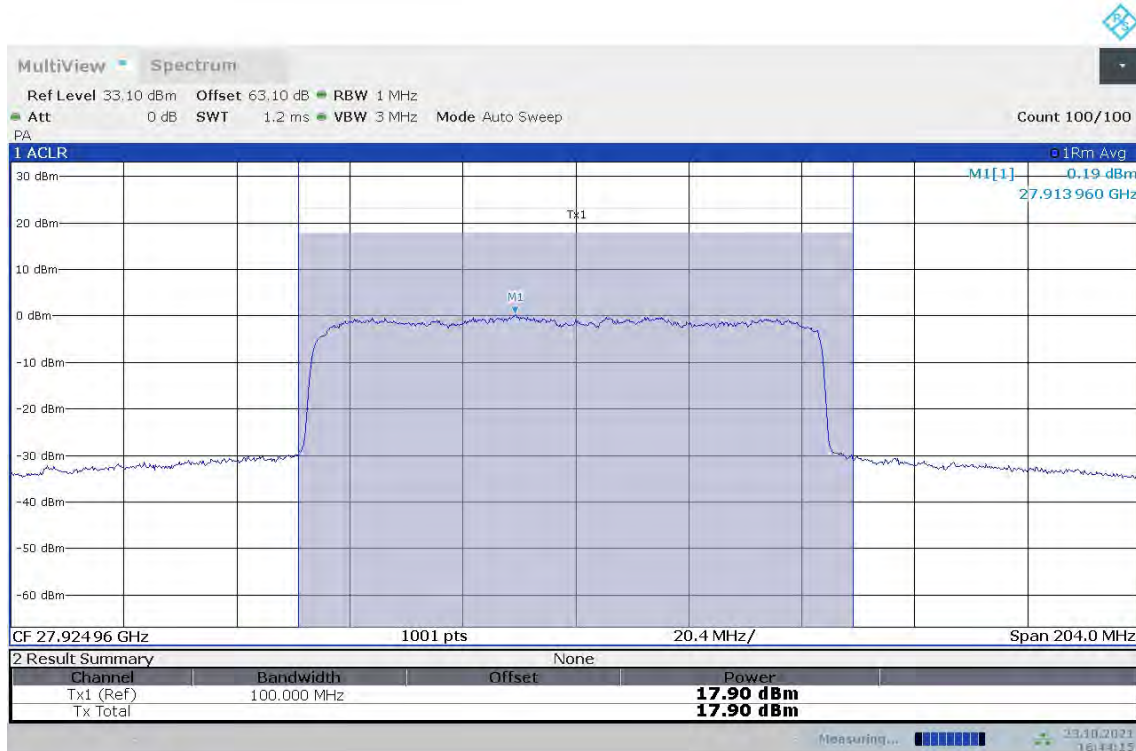
n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	28324.92	10.96	/	/

**n261, Module0, 50MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK**



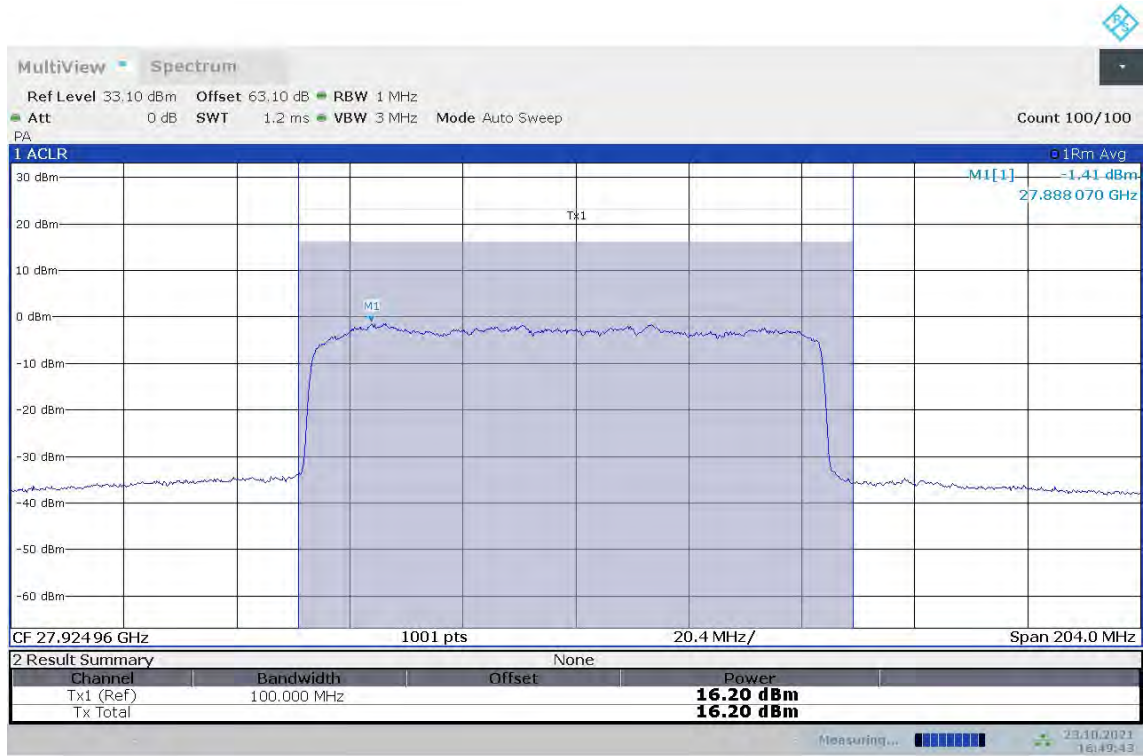
n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	27924.96	17.90	16.20	14.23

**n261, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, QPSK**



16:44:16 23.10.2021

n261, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, 16QAM



16:49:43 23.10.2021