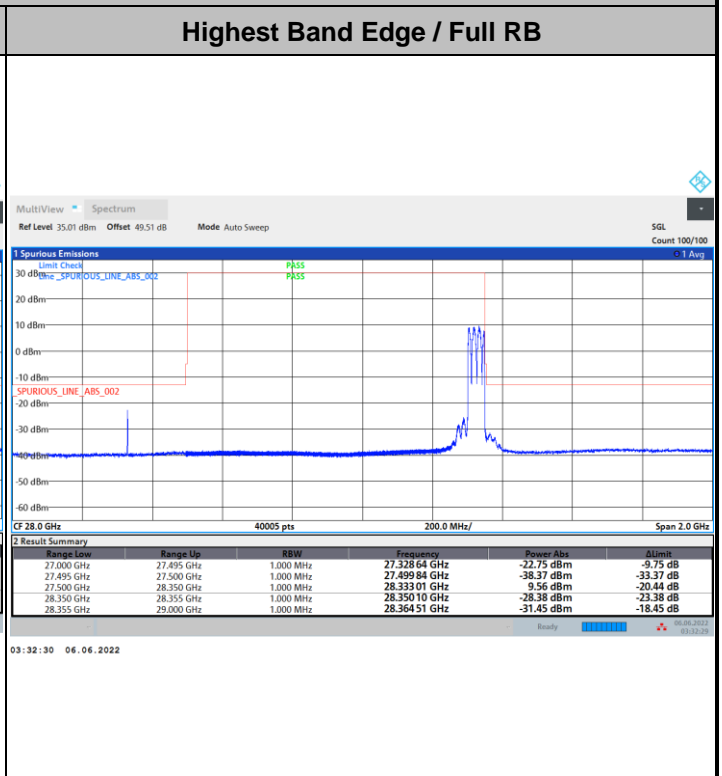
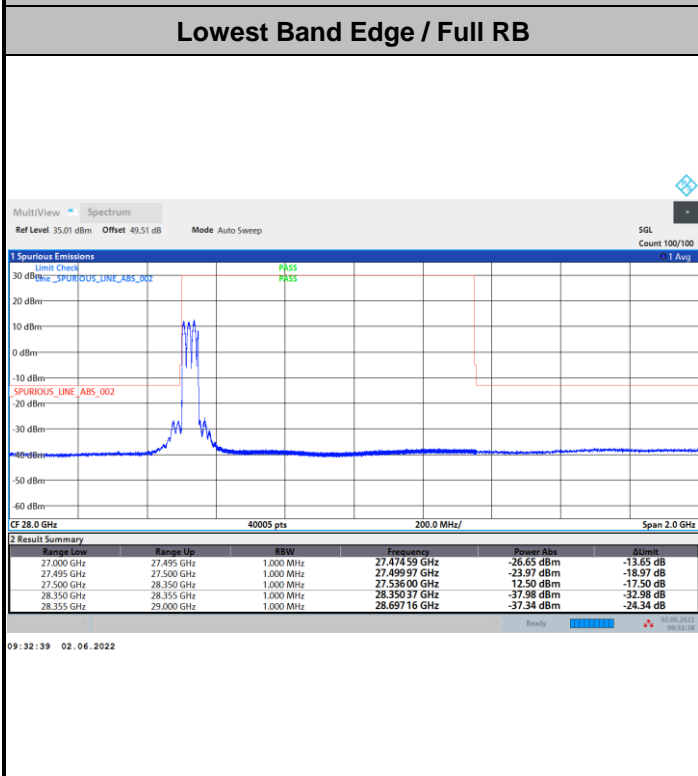


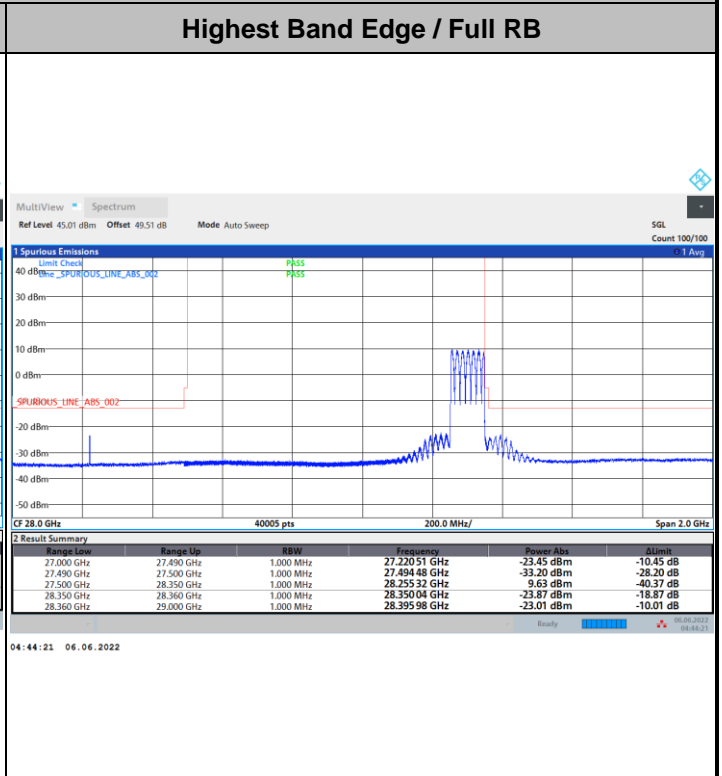
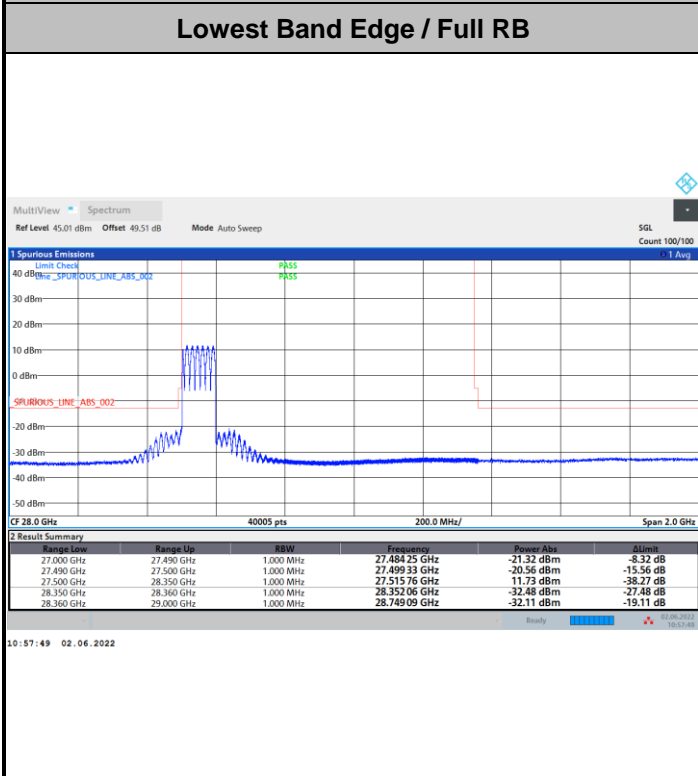


CP-OFDM Module 1

NR Band n261 / 50MHz / 64QAM

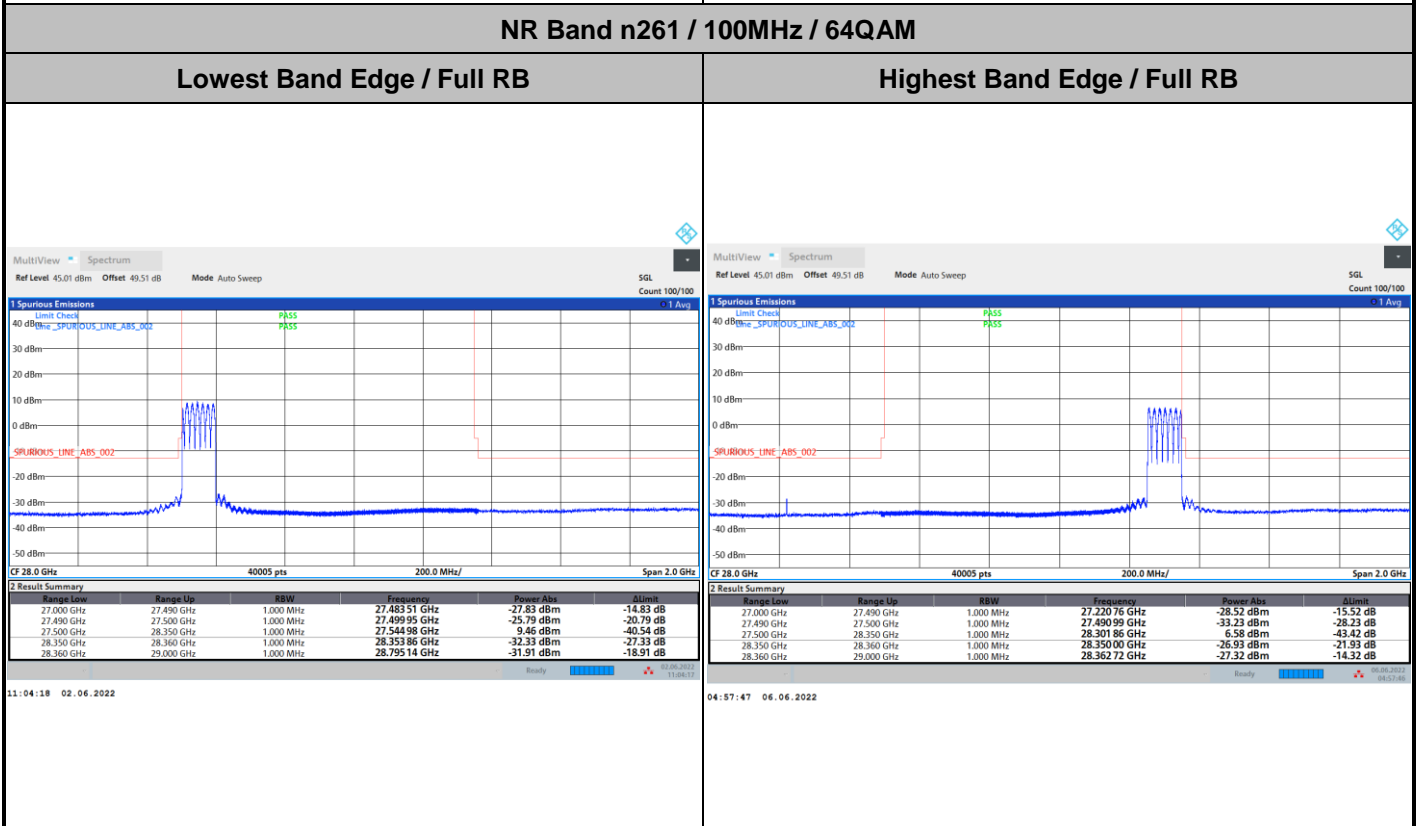
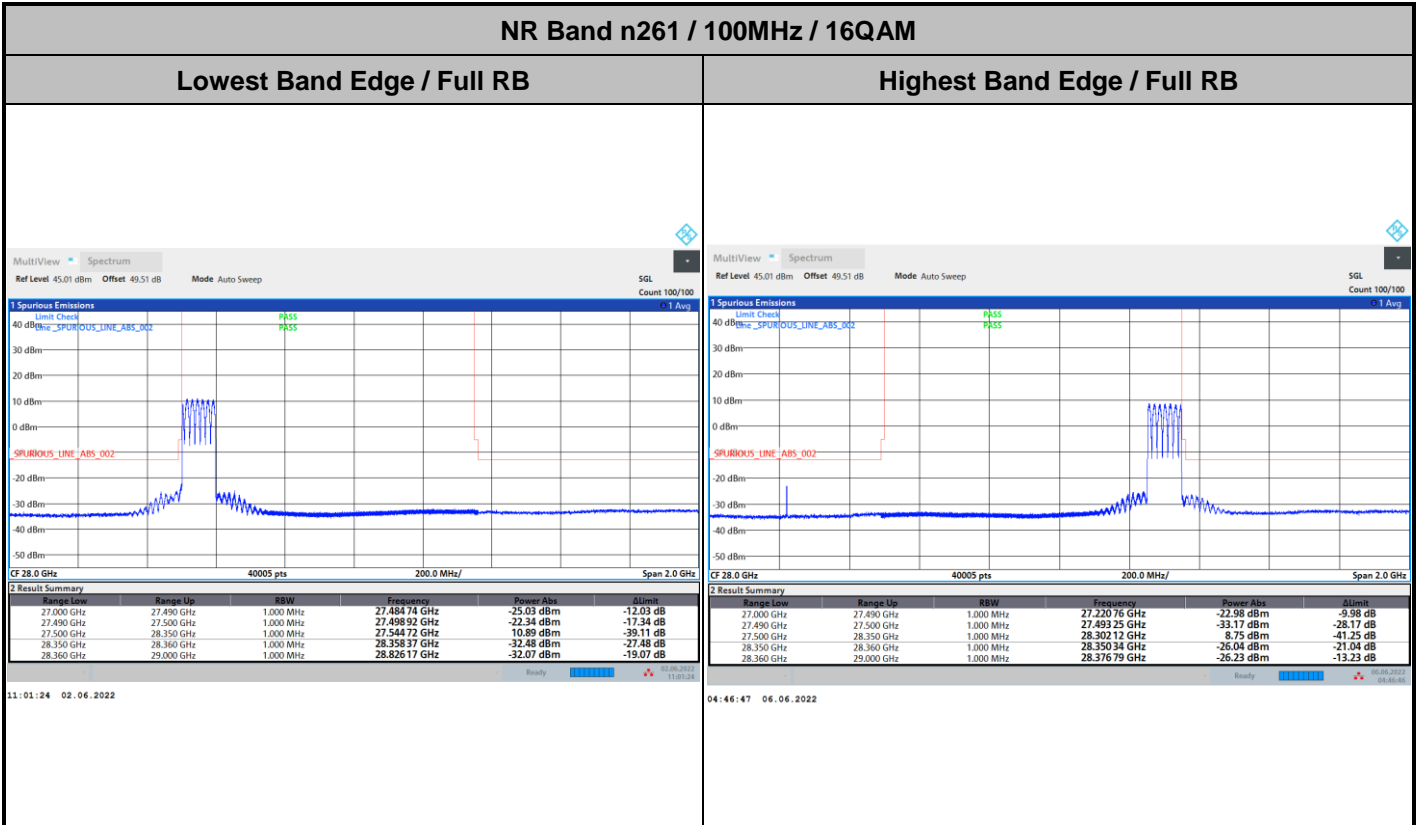


NR Band n261 / 100MHz / QPSK



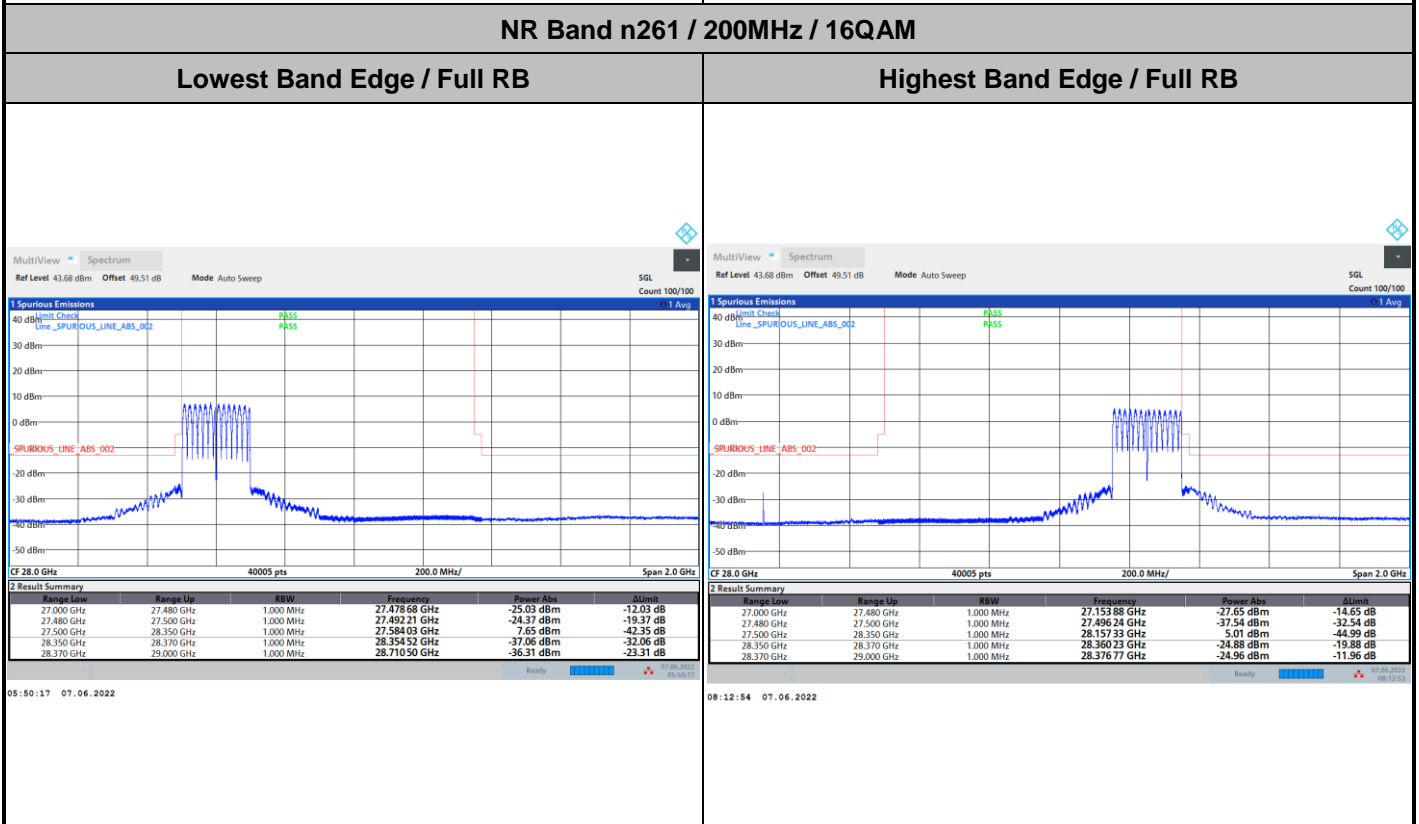
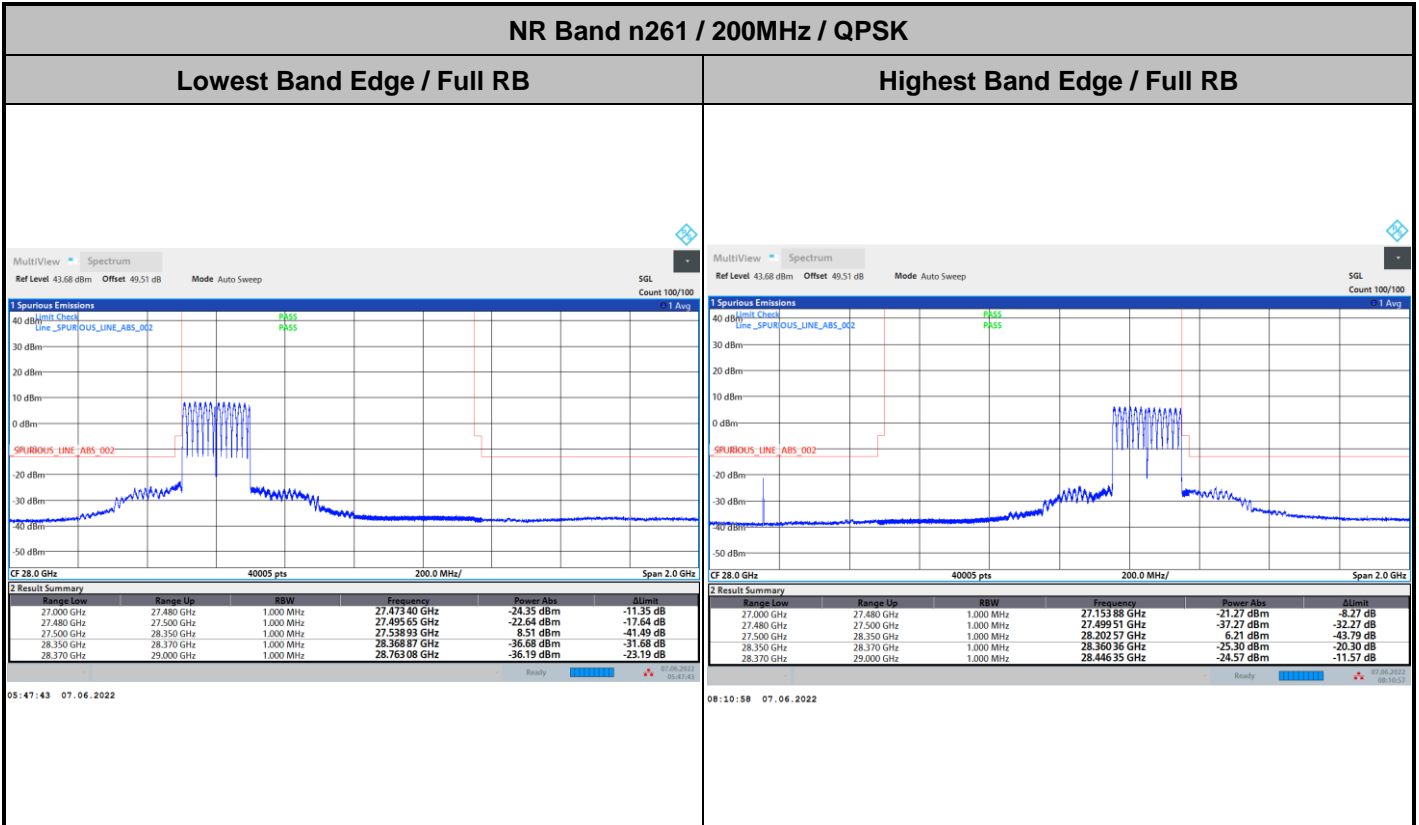


CP-OFDM Module 1



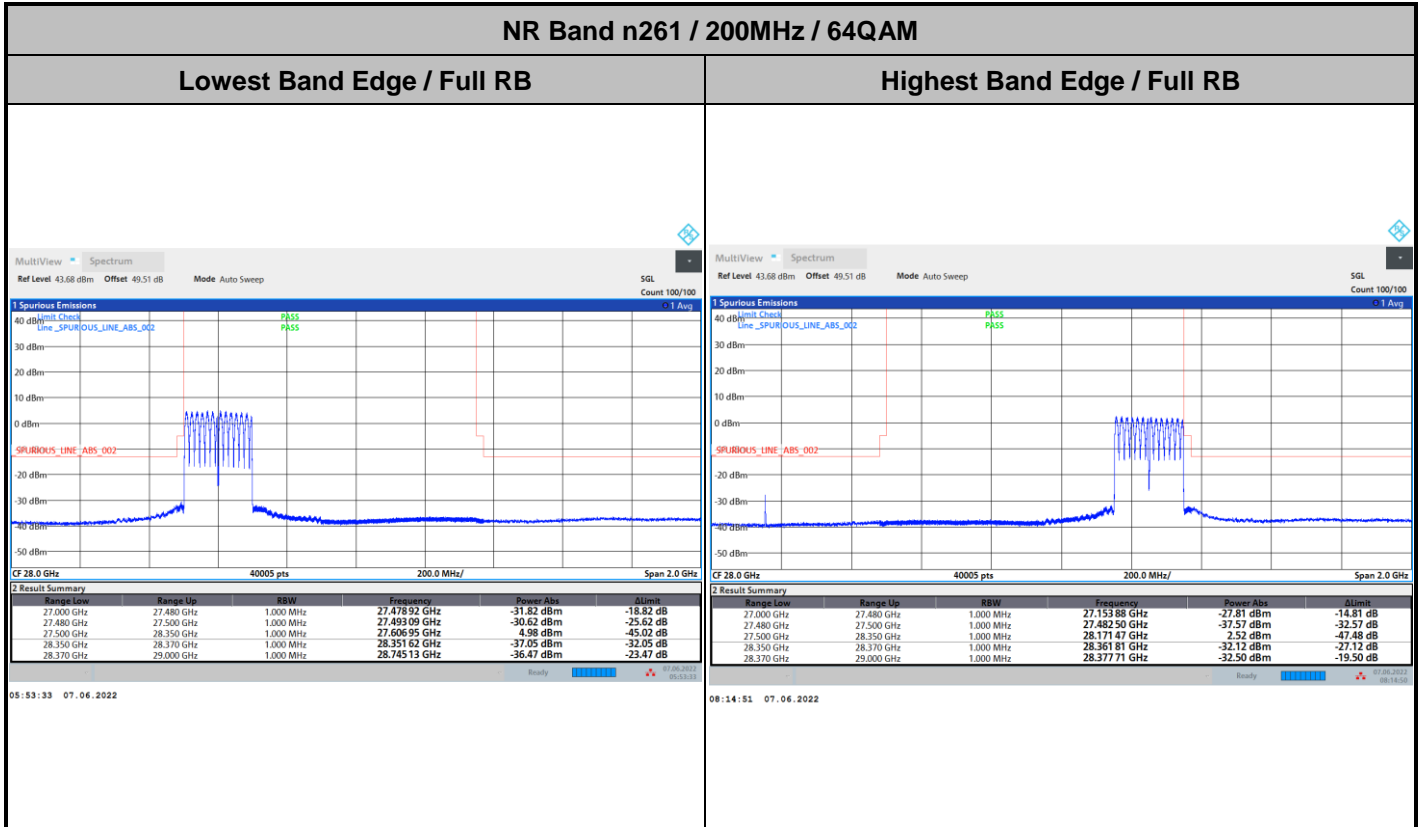


CP-OFDM Module 1





CP-OFDM Module 1



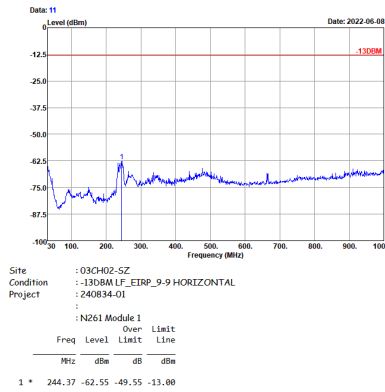


# Spurious Emission

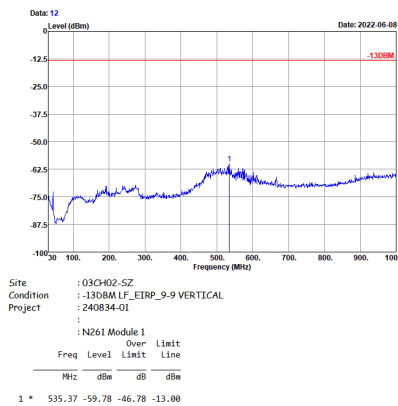
There is no significant spurious emission signal found for frequency started from 30MHz up to 18GHz. Only the noise floor is reported.

## NR Band n261 (30MHz-1GHz)

### Horizontal



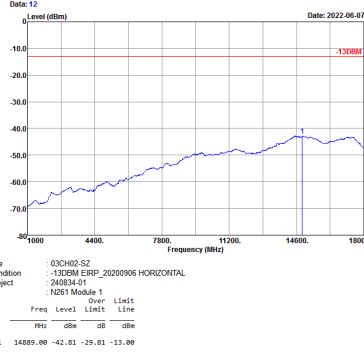
### Vertical



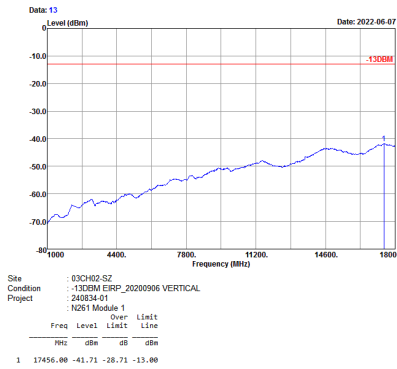


NR Band n261 (1GHz-18GHz)

Horizontal



Vertical

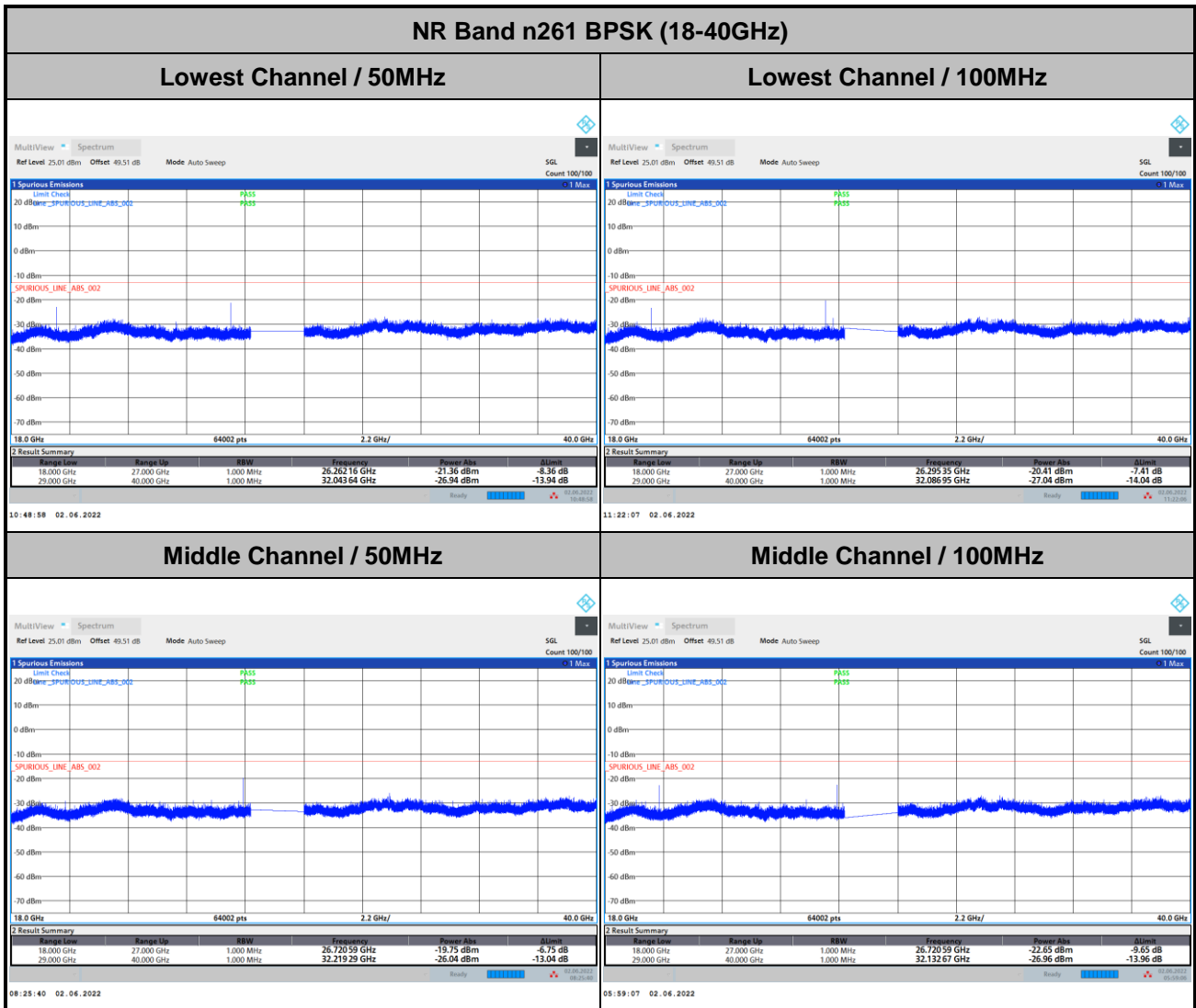


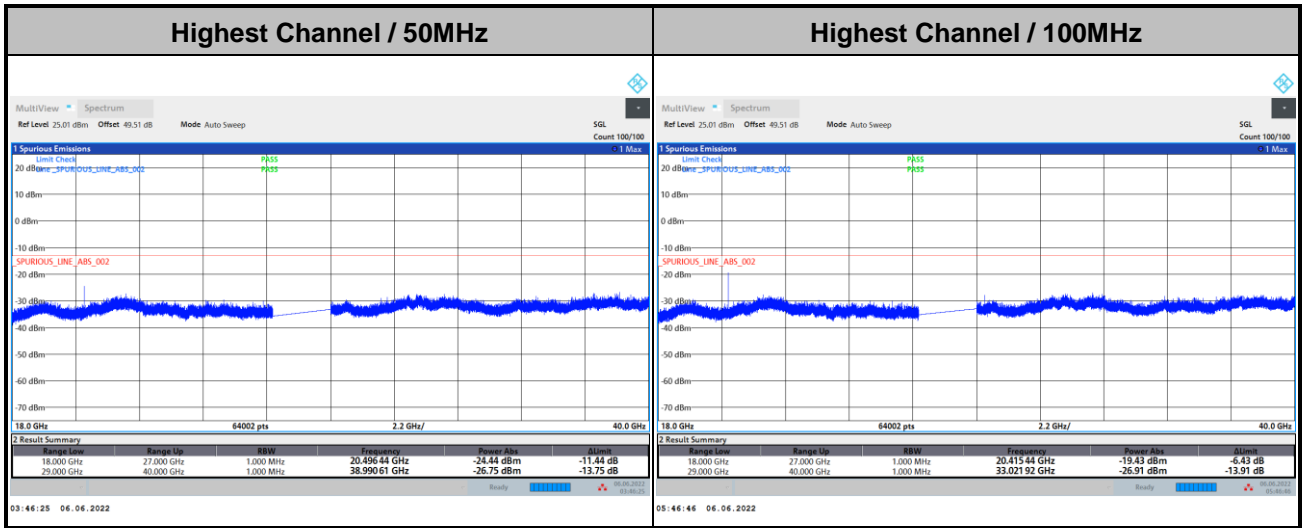


Spurious emission between 18GHz to 40GHz worst case plot is reported as following. The other frequency ranges are tested in AG 0+1 in accordance with the higher EIRP Power.

Below plots, the spurious emissions were measured from 18GHz to 27GHz and 29GHz to 40GHz. The test results within the omitted frequency 27GHz to 29GHz were measured and reported in the section of Radiated Out of Band Emission with frequency range, 27GHz to 29GHz, and all spurious comply with limits.

DFT-s-OFDM Module 1



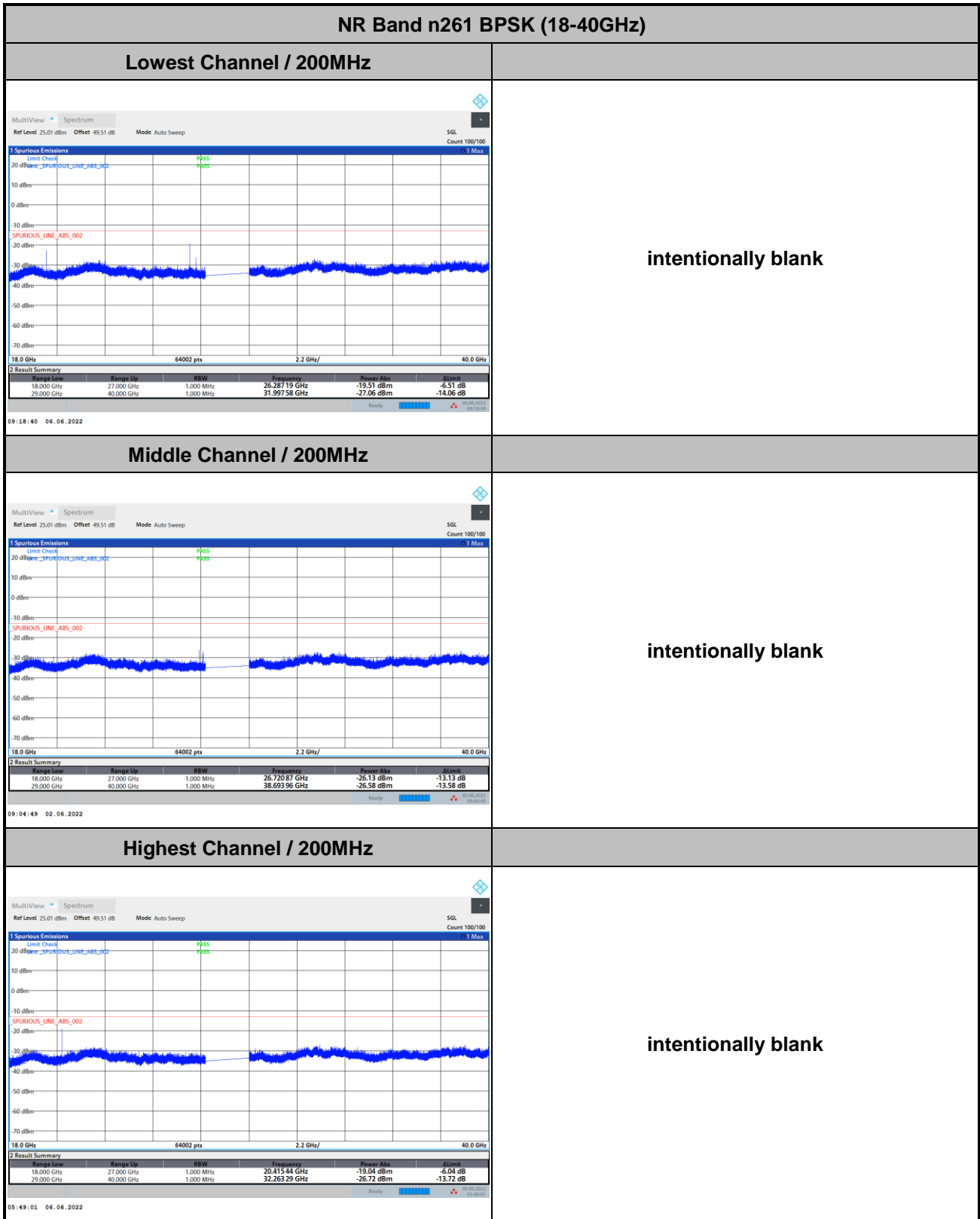


Remark: In band and out of band frequencies are omitted.





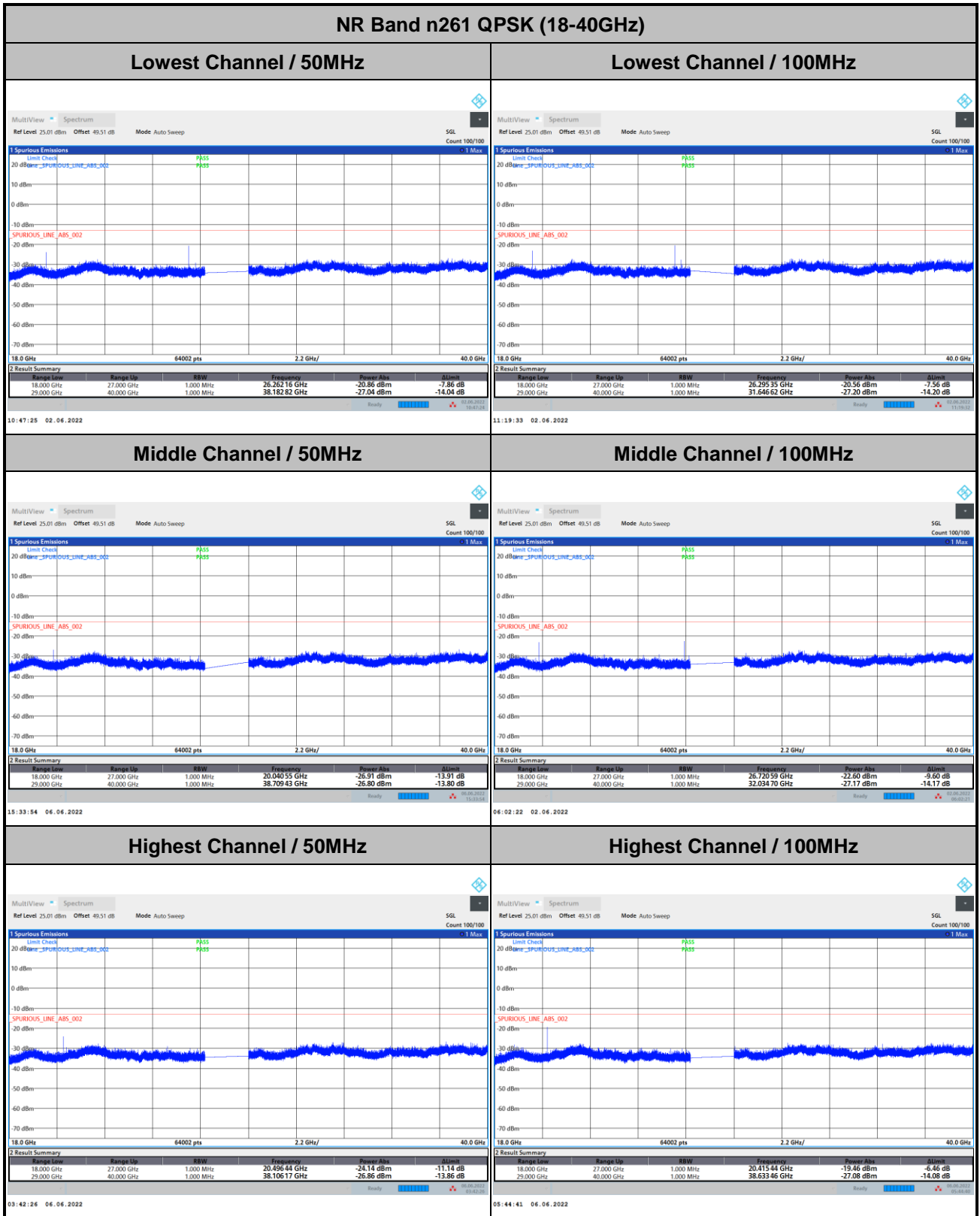
DFT-s-OFDM Module 1



Remark: In band and out of band frequencies are omitted.



DFT-s-OFDM Module 1



Remark: In band and out of band frequencies are omitted.



DFT-s-OFDM Module 1

NR Band n261 QPSK (18-40GHz)																			
<p><b>Lowest Channel / 200MHz</b></p> <table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs.</th> <th>dBm</th> </tr> </thead> <tbody> <tr> <td>18,000 GHz</td> <td>27,000 GHz</td> <td>1,000 MHz</td> <td>26,287 48 GHz</td> <td>-20,27 dBm</td> <td>-12,27 dB</td> </tr> <tr> <td>29,000 GHz</td> <td>40,000 GHz</td> <td>1,000 MHz</td> <td>32,145 29 GHz</td> <td>-26,96 dBm</td> <td>-13,96 dB</td> </tr> </tbody> </table>	Range Low	Range Up	RBW	Frequency	Power Abs.	dBm	18,000 GHz	27,000 GHz	1,000 MHz	26,287 48 GHz	-20,27 dBm	-12,27 dB	29,000 GHz	40,000 GHz	1,000 MHz	32,145 29 GHz	-26,96 dBm	-13,96 dB	intentionally blank
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<p><b>Middle Channel / 200MHz</b></p> <table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs.</th> <th>dBm</th> </tr> </thead> <tbody> <tr> <td>18,000 GHz</td> <td>27,000 GHz</td> <td>1,000 MHz</td> <td>26,720 59 GHz</td> <td>-25,92 dBm</td> <td>-12,92 dB</td> </tr> <tr> <td>29,000 GHz</td> <td>40,000 GHz</td> <td>1,000 MHz</td> <td>38,902 27 GHz</td> <td>-26,27 dBm</td> <td>-13,27 dB</td> </tr> </tbody> </table>	Range Low	Range Up	RBW	Frequency	Power Abs.	dBm	18,000 GHz	27,000 GHz	1,000 MHz	26,720 59 GHz	-25,92 dBm	-12,92 dB	29,000 GHz	40,000 GHz	1,000 MHz	38,902 27 GHz	-26,27 dBm	-13,27 dB	intentionally blank
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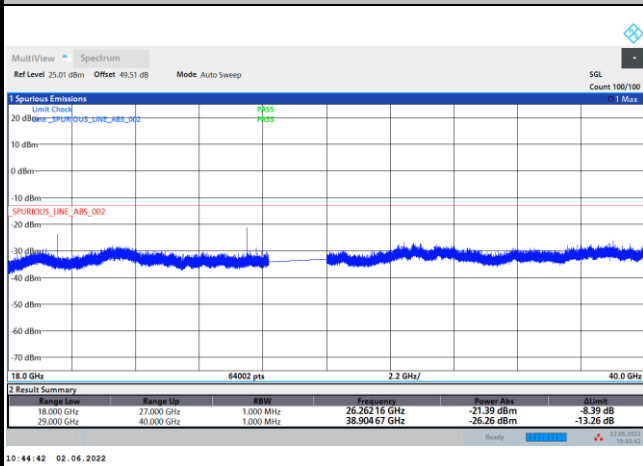
Remark: In band and out of band frequencies are omitted.



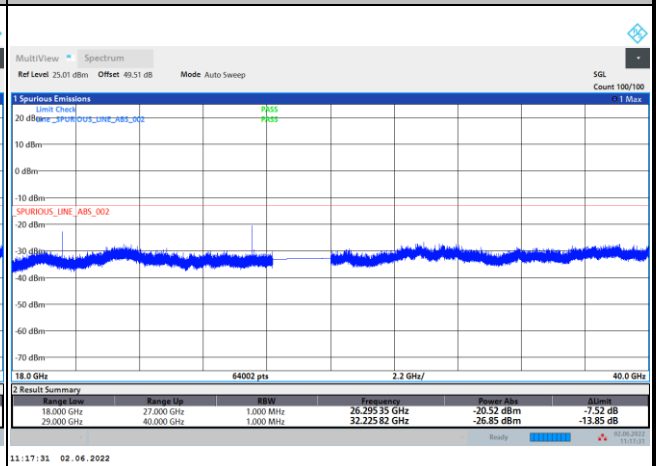
CP-OFDM Module 1

NR Band n261 QPSK (18-40GHz)

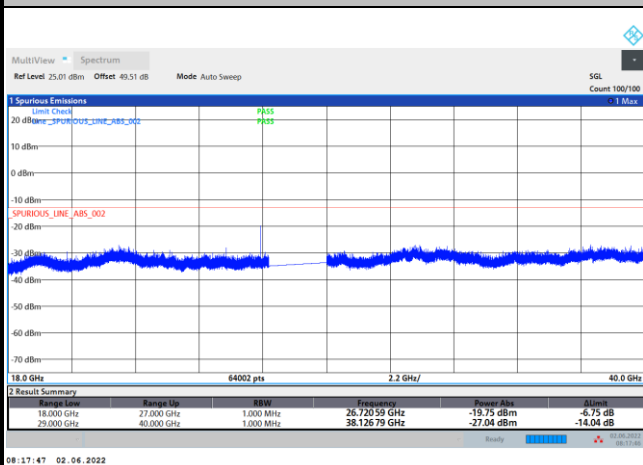
Lowest Channel / 50MHz



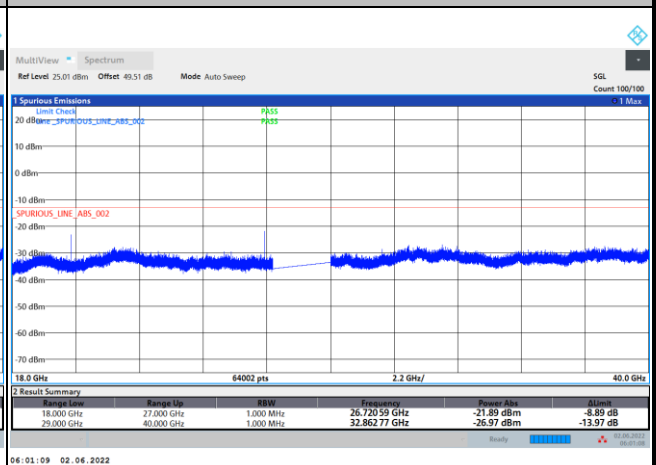
Lowest Channel / 100MHz



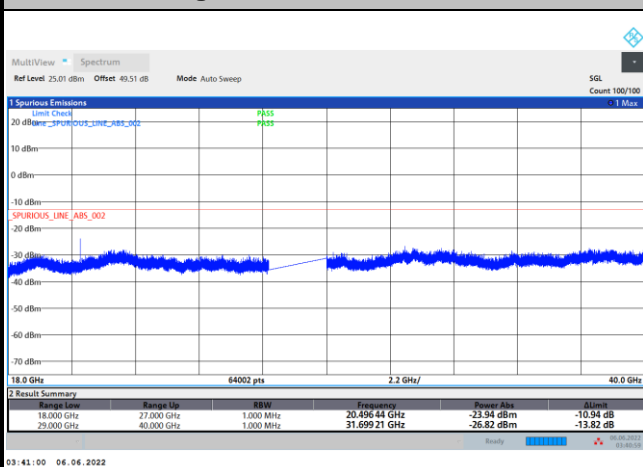
Middle Channel / 50MHz



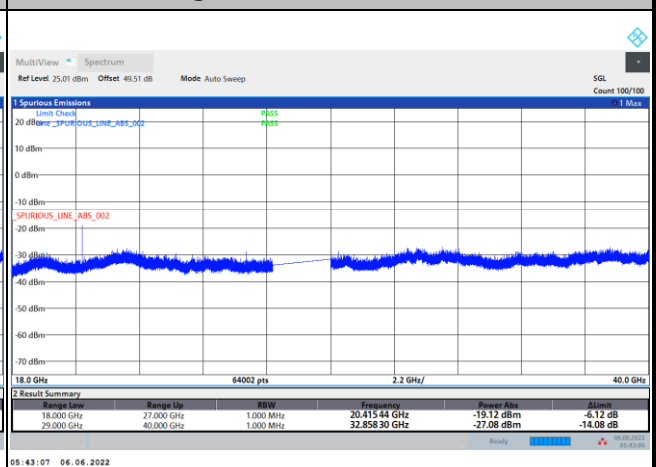
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz



Remark: In band and out of band frequencies are omitted.



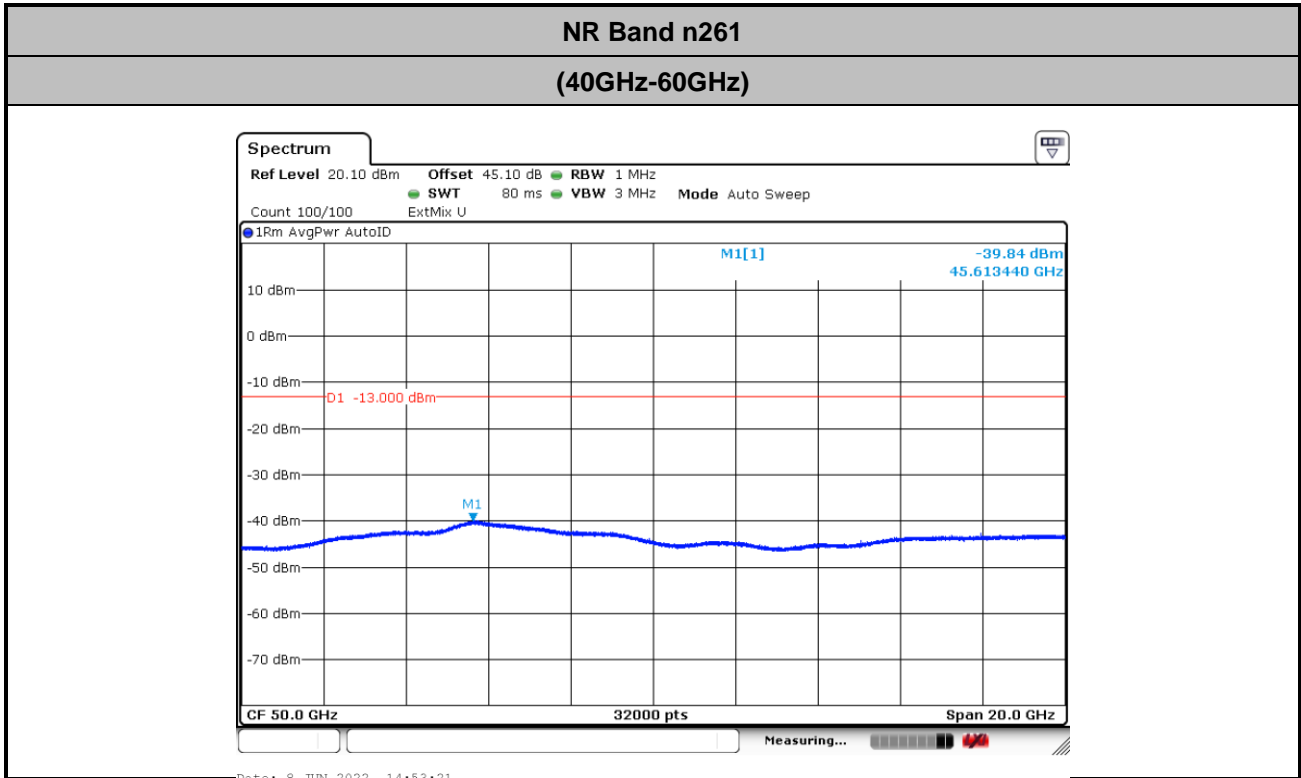
CP-OFDM Module 1

NR Band n261 QPSK (18-40GHz)																			
<p><b>Lowest Channel / 200MHz</b></p> <table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs.</th> <th>Δlimb</th> </tr> </thead> <tbody> <tr> <td>18,000 GHz</td> <td>27,000 GHz</td> <td>1,000 MHz</td> <td>26.28719 GHz</td> <td>-19.90 dBm</td> <td>-6.90 dB</td> </tr> <tr> <td>29,000 GHz</td> <td>40,000 GHz</td> <td>1,000 MHz</td> <td>38.09586 GHz</td> <td>-26.99 dBm</td> <td>-13.99 dB</td> </tr> </tbody> </table>	Range Low	Range Up	RBW	Frequency	Power Abs.	Δlimb	18,000 GHz	27,000 GHz	1,000 MHz	26.28719 GHz	-19.90 dBm	-6.90 dB	29,000 GHz	40,000 GHz	1,000 MHz	38.09586 GHz	-26.99 dBm	-13.99 dB	<p>intentionally blank</p>
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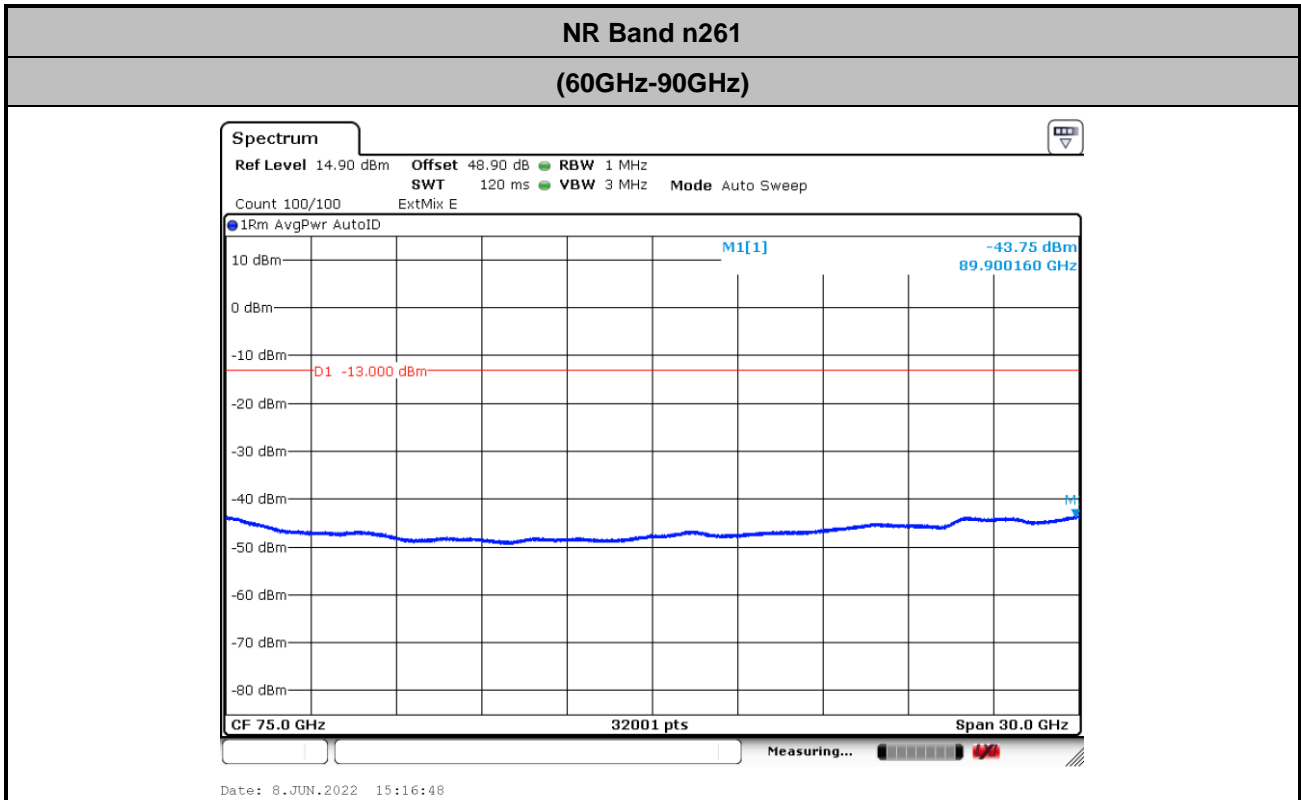
Remark: In band and out of band frequencies are omitted.



There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz. Only the noise floor is reported.

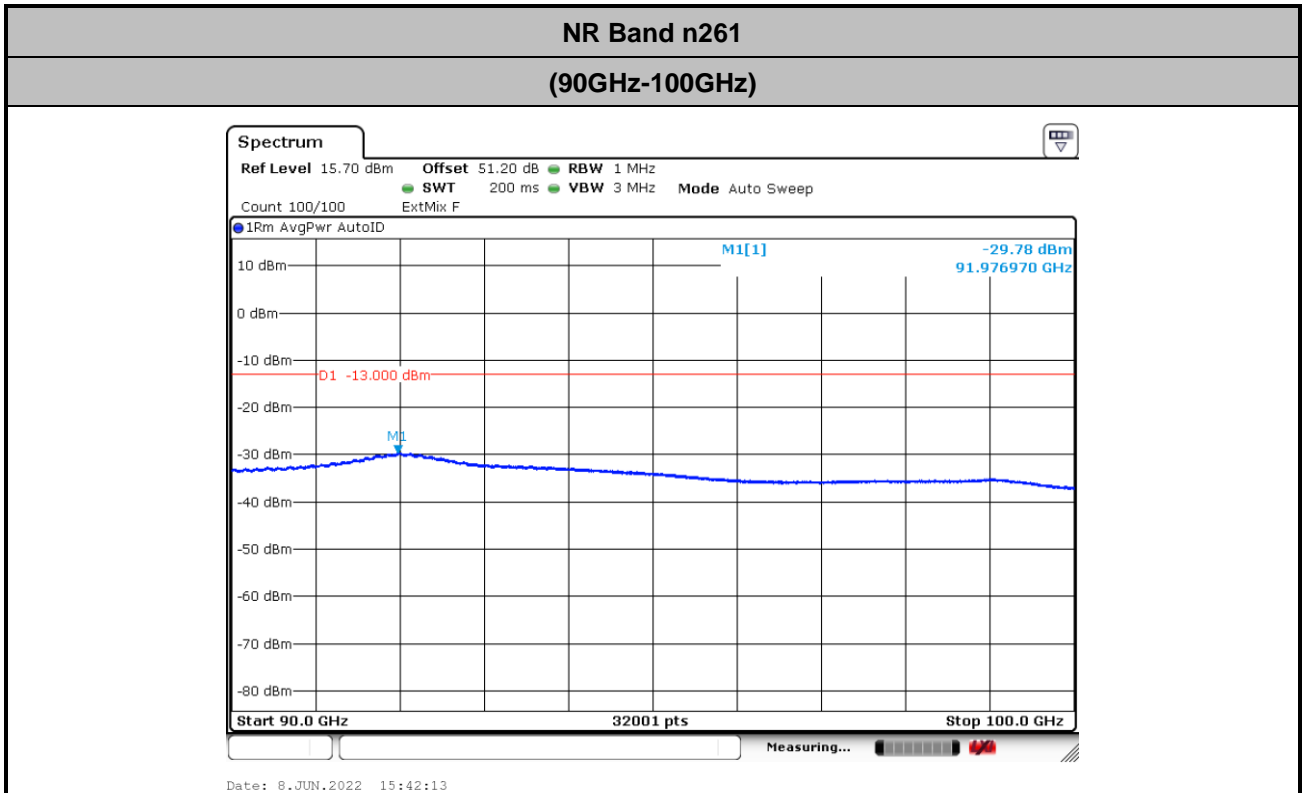


$$\begin{aligned}
 \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\
 &= 42.5 + 0.4 + 107 + 20\log(1) - 104.8 = 45.1 \text{ (dB)}
 \end{aligned}$$



$$Offset = Antenna\ Factor\ (dB/m) + Cable\ Loss\ (dB) + 107 + 20\log(D) - 104.8$$

$$= 46.3 + 0.4 + 107 + 20\log(1) - 104.8 = 48.9\ (dB)$$



$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 48.6 + 0.4 + 107 + 20\log(1) - 104.8 = 51.2 \text{ (dB)}$$





Frequency Stability

Test Conditions		NR Band n261 / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	27.92494284	57.164	2.047	PASS
40	Normal Voltage	27.92494573	54.269	1.943	
30	Normal Voltage	27.92496672	33.285	1.192	
20(Ref.)	Normal Voltage	27.925	0.000	0.000	
10	Normal Voltage	27.92509986	-99.855	3.576	
0	Normal Voltage	27.9251534	-153.401	5.493	
-10	Normal Voltage	27.92517728	-177.279	6.348	
-20	Normal Voltage	27.92518813	-188.133	6.737	
-30	Normal Voltage	27.92521201	-212.012	7.592	
20	Maximum Voltage	27.92497685	23.155	0.829	
20	Normal Voltage	27.925	0.000	0.000	
20	Battery End Point	27.92501085	-10.845	0.388	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.48 V.
2. The frequency fundamental emissions stay within the operation band.



## **Appendix C. R&S Mixer Certificate**



# Calibration Certificate

Kalibrierschein

Certificate Number **24-0060-101017-01**

Zertifikatsnummer

## Unit Data

Item  
Gegenstand **Harmonic Mixer, 40 GHz to 60 GHz**

Manufacturer  
Hersteller **RPG**

Type  
Typ **RPG FS-Z60**

Material Number  
Materialnummer **1048.0171.02**      Serial Number  
Seriennummer **101017**

Asset Number  
Inventarnummer

This calibration certificate documents, that the named item is tested and measured against defined specifications. Measurement results are located usually in the corresponding interval with a probability of approx. 95% (coverage factor  $k = 2$ ). Calibration is performed with test equipment and standards directly or indirectly traceable by means of approved calibration techniques to the PTB/DKD or other national/international standards, which realize the physical units of measurement according to the International System of Units (SI). In all cases where no standards are available, measurements are referenced to standards of the R&S laboratories. Principles and methods of calibration correspond with EN ISO/IEC 17025. This calibration certificate may not be reproduced other than in full. Calibration certificates without signatures are not valid. The user is obliged to have the object recalibrated at appropriate intervals.

## Order Data

Customer  
Auftraggeber

Order Number  
Bestellnummer

Date of Receipt  
Eingangsdatum

Dieser Kalibrierschein dokumentiert, dass der genannte Gegenstand nach festgelegten Vorgaben geprüft und gemessen wurde. Die Messwerte lagen im Regelfall mit einer Wahrscheinlichkeit von annähernd 95% im zugeordneten Werteintervall (Erweiterte Messunsicherheit mit  $k = 2$ ). Die Kalibrierung erfolgte mit Messmitteln und Normalen, die direkt oder indirekt durch Ableitung mittels anerkannter Kalibriertechniken rückgeführt sind auf Normale der PTB/DKD oder anderer nationaler/internationaler Standards zur Darstellung der physikalischen Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI). Wenn keine Normale existieren, erfolgt die Rückführung auf Bezugsnormale der R&S-Laboratorien. Grundsätze und Verfahren der Kalibrierung beziehen sich auf EN ISO/IEC 17025. Dieser Kalibrierschein darf nur vollständig und unverändert weiterverbreitet werden. Kalibrierscheine ohne Unterschriften sind ungültig. Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

## Performance

Place and Date of Calibration  
Ort und Datum der Kalibrierung

**Meckenheim, 2019-09-19**

Scope of Calibration  
Umfang der Kalibrierung

**Standard Calibration**

Statement of Compliance  
(Incoming)  
Konformitätsaussage  
(Anlieferung)

**New device**

Statement of Compliance  
(Outgoing)  
Konformitätsaussage  
(Auslieferung)

**All measured values are within the data sheet specifications.**

Extend of Calibration Documents  
Umfang des Kalibrierdokuments

**2 pages Calibration Certificate  
5 pages Outgoing Results**

## Radiometer Physics GmbH; Meckenheim

Date of Issue  
Ausstellungsdatum

**2019-09-20**

Head of Laboratory  
Laborleitung

**Schulze**

Person Responsible  
Bearbeiter

**Heinze**

Page (Seite) 1/2  
Vers2010-05-05/  
RPG2014-02-28

Calibration Method  
Kalibrieranweisung

RPG-PAQA-TN-2014-002

Relative Humidity 20 % - 80 %  
Relative LuftfeuchteAmbient Temperature  
Umgebungstemperatur(23 <sup>+7</sup><sub>-3</sub>) °C

Working standards used (having a significant effect on the accuracy) Verwendete Gebrauchsnormale (mit signifikantem Einfluss auf die Genauigkeit)				
Item Gegenstand	Type Typ	Serial Number Seriennummer	Calibration Certificate Number Kalibrierscheinnummer	Cal. Due Kalibr. bis
Vector Network Analyzer	R&S® ZVA67	101097	20-300432406	2020-07-21
Powersensor	R&S® NRP-Z55	140093	509916_D-K-15195-01-01_2019-05	2020-05-22
Powersensor	R&S® NRP-Z57	101423	508173_D-K-15195-01-01_2019-05	2020-05-07
Calibration kit	WR19	U10001	24-0060-U10001-02	2021-02-05

UGB1 A compliance statement may be possible where a confidence level of less than 95 % is acceptable.  
Die Bestätigung der Konformität ist möglich, sofern ein Grad des Vertrauens von weniger als 95 % akzeptabel ist.

UGB2 A non-compliance statement may be possible where a confidence level of less than 95 % is acceptable.  
Die Bestätigung der Nicht-Konformität ist möglich, sofern ein Grad des Vertrauens von weniger als 95 % akzeptabel ist.

Ref.: ILAC-G8:03/2009 'Guidelines on the Reporting of Compliance with Specification'.

## Notes

Anmerkungen

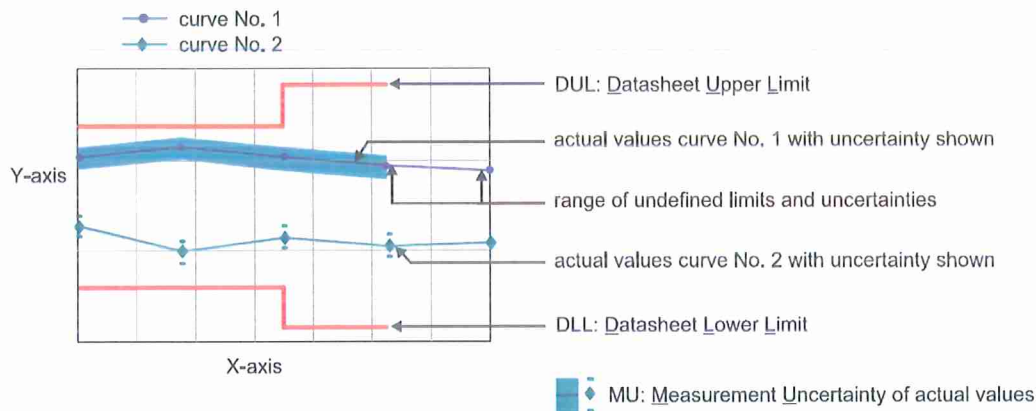
If the new product is stored under the climate conditions as specified in the data sheet upon delivery, the product's accuracy is not significantly affected within 12 month after its calibration in our factory. In this case, the recommended calibration interval starts on the date when the product is actually put into operation.

## Outgoing Results

### The following abbreviations may be used in this document

{a}	No measurement uncertainty stated because the errors always add together. So it is sure that a measurement result evaluated as "PASS" is pass.
{b}	The measurement uncertainty depends on the measurement result. The stated measurement uncertainty is valid for the close area around the specification. Measurement results outside the close area have a higher measurement uncertainty but are within the specification.
{c}	Functional test, therefore no measurement uncertainty is stated.
{d}	Typical value, refer to performance test.
{e}	The measurement uncertainty is taken into account when setting the measuring system.
DL or DT	Data Limit for symmetrical tolerance limits
DLL	Datasheet Lower Limit
DUL	Datasheet Upper Limit
MU	Measurement Uncertainty
MLL or MLV	Measurement Uncertainty Lower Value
MUL or MUV	Measurement Uncertainty Upper Value
Nom.	Nominal Value
Dev.	Deviation
MErr.	Measurement Error
Act.	Actual Value
UGB	Uncertainty Guard Band: Measuring uncertainty violates the data (spec.) limit.
UGB1	Measurement results marked as UGB1 show conformity with a probability of >50 % and <95 %.
UGB2	Measurement results marked as UGB2 show non-conformity with a probability of >50 % and <95 %.
DU	Datasheet Uncertainty

### Explanation of charts



**Software used for measurement**

**Item Type**

Measurement Studio Professional Edition  
MixerCertification

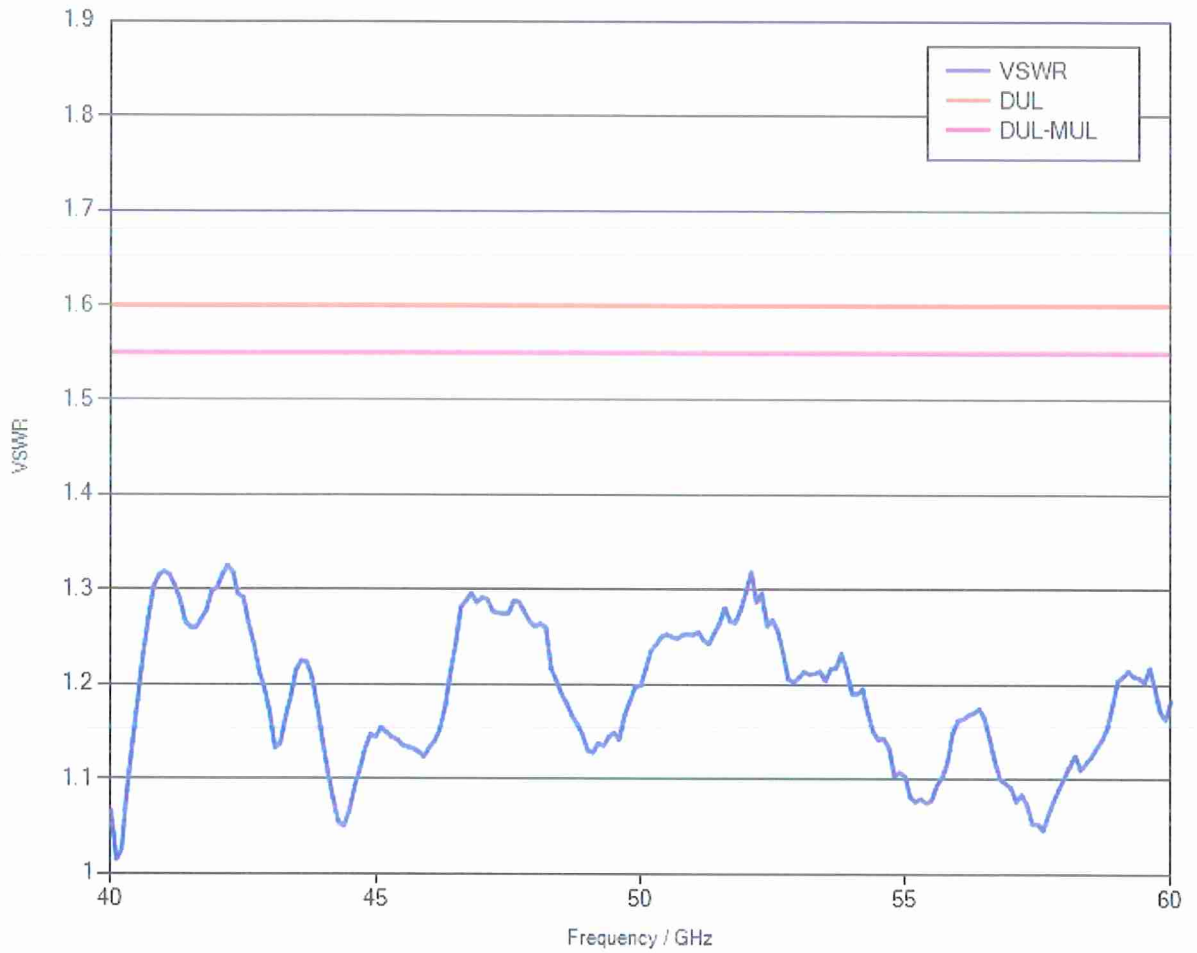
**Version**

2013  
7\_12

**Remark**

### 1.1 RF Input – VSWR

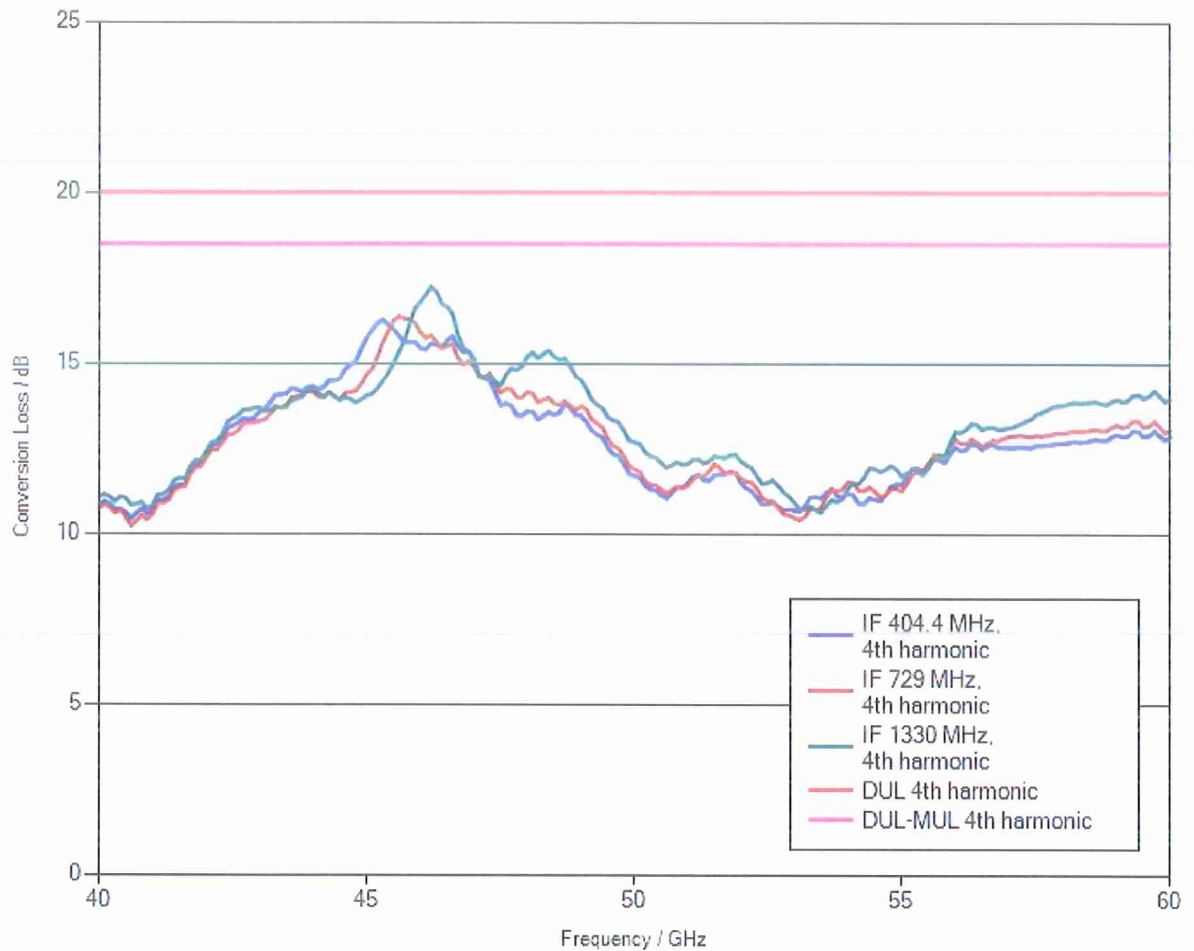
Measurement uncertainty: 0.05 (VSWR)



## 1.2 Conversion loss

LO level                    +13 dBm nominal  
Bias                        0 A

Measurement uncertainty:    1.5 dB



**Note:** Numeric calibration data can be found attached to the PDF file of the calibration certificate. Click the “paper clip” symbol to display the file.

The file has been renamed for safety reasons.

When downloading the file onto your PC, please delete the “.file” extension and unzip the data.



### 1.3 Frequency response within 1 GHz

	DUL	Actual (worst case)	Evaluation
IF = 404.4 MHz, 4th harmonic	4 dB	2.04 dB	PASS
IF = 729 MHz, 4th harmonic	4 dB	2.22 dB	PASS
IF = 1330 MHz, 4th harmonic	4 dB	2.77 dB	PASS



## Calibration Certificate

Certificate Number **20-837552-C**

Kalibrierschein

Zertifikatsnummer

### Unit Data

Item **FS-Z90 HARMONIC MIXER 60-90GHZ**  
Gegenstand

Manufacturer **ROHDE & SCHWARZ**  
Hersteller

Type **FS-Z90**  
Typ

Material Number **3638.2270.02** Serial Number **102037**  
Materialnummer Seriennummer

Asset Number  
Inventarnummer

### Order Data

Customer  
Auftraggeber

Order Number  
Bestellnummer

Date of Receipt **2019-10-10**  
Eingangsdatum

### Performance

Place and Date of Calibration **Memmingen, 2019-10-10**  
Ort und Datum der Kalibrierung

Scope of Calibration **Standard Calibration**  
Umfang der Kalibrierung

Statement of Compliance **New device**  
(Incoming)  
Konformitätsaussage  
(Anlieferung)

Statement of Compliance **All measured values are within**  
(Outgoing) **the data sheet specifications.**  
Konformitätsaussage  
(Auslieferung)

Extent of Calibration Documents **2 Pages incl. this**  
Umfang des Kalibrierdokuments

Ref.No. **20-837552-C**

Cal. 2019-10-10	Custom. Due Date
--------------------	------------------

ROHDE & SCHWARZ

This calibration certificate documents, that the named item is tested and measured against defined specifications. Measurement results are located usually in the corresponding interval with a probability of approx. 95% (coverage factor  $k = 2$ ). Calibration is performed with test equipment and standards directly or indirectly traceable by means of approved calibration techniques to the PTB/DKD or other national / international standards, which realize the physical units of measurement according to the International System of Units (SI). In all cases where no standards are available, measurements are referenced to standards of the R&S laboratories. Principles and methods of calibration correspond and are conformant with EN ISO/IEC 17025, ANSI/NCSL Z540.1-1994 and ANSI/NCSL Z540.3-2006. The applied quality system is certified to EN ISO 9001. This calibration certificate may not be reproduced other than in full. Calibration certificates without signatures are not valid. The user is obliged to have the object recalibrated at appropriate intervals.

Dieser Kalibrierschein dokumentiert, dass der genannte Gegenstand nach festgelegten Vorgaben geprüft und gemessen wurde. Die Messwerte lagen im Regelfall mit einer Wahrscheinlichkeit von annähernd 95% im zugeordneten Werteintervall (Erweiterte Messunsicherheit mit  $k = 2$ ). Die Kalibrierung erfolgte mit Messmitteln und Normalen, die direkt oder indirekt durch Ableitung mittels anerkannter Kalibriertechniken rückgeführt sind auf Normale der PTB/DKD oder anderer nationaler/internationaler Standards zur Darstellung der physikalischen Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI). Wenn keine Normale existieren, erfolgt die Rückführung auf Bezugsnormale der R&S-Laboratorien. Grundsätze und Verfahren der Kalibrierung beziehen sich auf und entsprechen EN ISO/IEC 17025, ANSI/NCSL Z540.1-1994 und ANSI/NCSL Z540.3-2006. Das angewandte Qualitätsmanagement-System ist zertifiziert nach EN ISO 9001. Dieser Kalibrierschein darf nur vollständig und unverändert weiterverbreitet werden. Kalibrierscheine ohne Signifizierungen sind ungültig. Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

### Rohde & Schwarz Messgerätebau GmbH

Date of Issue  
Ausstellungsdatum

2019-10-10

Head of Laboratory  
Laborleitung

Steigmüller

Person Responsible  
Bearbeiter

Mathias Mücke

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Calibration Method **5038.8323.01-PB-01.03**  
Kalibrieranweisung

Relative Humidity **20%-60%**  
Relative Luftfeuchte

Ambient Temperature **(23 <sup>+1</sup> ) °C**  
Umgebungstemperatur **-1**

**Working standards used (having a significant effect on the accuracy)**  
Verwendete Gebrauchsnormale (mit signifikantem Einfluss auf die Genauigkeit)

Item Gegenstand	Type Typ	Serial Number Seriennummer	Calibration Certificate Number Kalibrierscheinnummer	Cal. Due Kalibr. bis
Therm.Power Sensor DC-40GHz	NRP-Z55	100221	441963-D-K-15195-01-01-2017-10	2019-10-31
Thermal Waveguide Power Sensor	NRP90TWG	910001	668325 D-K-15195-01-00 2017-06	2020-06-30
Vect. Netw. Analyzer 4PORT	ZVA67	101175	0016 D-K-15195-01-01 2018-12	2019-12-31

**Conformity statements take the measurement uncertainties into account.**

Die Konformitätsaussagen berücksichtigen die Messunsicherheiten.

**Notes**

Anmerkungen

Installed options are included in calibration. Depending on installed options, numbers of pages of the record are not consecutive.



# Calibration Certificate

Kalibrierschein

Certificate Number **24-0140-101141-01**

Zertifikatsnummer

## Unit Data

Item Gegenstand **Harmonic Mixer, 90 GHz to 140 GHz**

Manufacturer Hersteller **RPG**

Type Typ **RPG FS-Z140**

Material Number Materialnummer **3622.0708.02** Serial Number Seriennummer **101141**

Asset Number Inventarnummer

This calibration certificate documents, that the named item is tested and measured against defined specifications. Measurement results are located usually in the corresponding interval with a probability of approx. 95% (coverage factor  $k = 2$ ). Calibration is performed with test equipment and standards directly or indirectly traceable by means of approved calibration techniques to the PTB/DKD or other national/international standards, which realize the physical units of measurement according to the International System of Units (SI). In all cases where no standards are available, measurements are referenced to standards of the R&S laboratories. Principles and methods of calibration correspond with EN ISO/IEC 17025. This calibration certificate may not be reproduced other than in full. Calibration certificates without signatures are not valid. The user is obliged to have the object recalibrated at appropriate intervals.

## Order Data

Customer Auftraggeber

Order Number Bestellnummer

Date of Receipt Eingangsdatum

Dieser Kalibrierschein dokumentiert, dass der genannte Gegenstand nach festgelegten Vorgaben geprüft und gemessen wurde. Die Messwerte lagen im Regelfall mit einer Wahrscheinlichkeit von annähernd 95% im zugeordneten Wertebereich (Erweiterte Messunsicherheit mit  $k = 2$ ). Die Kalibrierung erfolgte mit Messmitteln und Normalen, die direkt oder indirekt durch Ableitung mittels anerkannter Kalibriertechniken rückgeführt sind auf Normale der PTB/DKD oder anderer nationaler/internationaler Standards zur Darstellung der physikalischen Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI). Wenn keine Normale existieren, erfolgt die Rückführung auf Bezugsnormale der R&S-Laboratorien. Grundsätze und Verfahren der Kalibrierung beziehen sich auf EN ISO/IEC 17025. Dieser Kalibrierschein darf nur vollständig und unverändert weiterverbreitet werden. Kalibrierscheine ohne Unterschriften sind ungültig. Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

## Performance

Place and Date of Calibration Ort und Datum der Kalibrierung

**Meckenheim, 2019-09-09**

Scope of Calibration Umfang der Kalibrierung

**Standard Calibration**

Statement of Compliance (Incoming) Konformitätsaussage (Anlieferung)

**New device**

Statement of Compliance (Outgoing) Konformitätsaussage (Auslieferung)

**All measured values are within the data sheet specifications.**

Extend of Calibration Documents Umfang des Kalibrierdokuments

**2 pages Calibration Certificate  
5 pages Outgoing Results**

## Radiometer Physics GmbH; Meckenheim

Date of Issue Ausstellungsdatum

**2019-09-11**

Head of Laboratory Laborleitung

Schulze

Person Responsible Bearbeiter

Heinze

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RPG2014-02-28

Calibration Method  
Kalibrieranweisung

RPG-PAQA-TN-2014-002

Relative Humidity 20 % - 80 %  
Relative LuftfeuchteAmbient Temperature  
Umgebungstemperatur(23 <sup>+7</sup><sub>-3</sub>) °C

Working standards used (having a significant effect on the accuracy) Verwendete Gebrauchsnormale (mit signifikantem Einfluss auf die Genauigkeit)				
Item Gegenstand	Type Typ	Serial Number Seriennummer	Calibration Certificate Number Kalibrierscheinnummer	Cal. Due Kalibr. bis
Vector Network Analyzer	R&S® ZVA67	101097	20-300432406	2020-07-21
Powersensor	R&S® NRP-Z55	140093	509916_D-K-15195-01-01_2019-05	2020-05-22
Calibration Kit	WR8	F10001	24-0140-F10001-02	2021-01-16

**UGB1** A compliance statement may be possible where a confidence level of less than 95 % is acceptable.  
Die Bestätigung der Konformität ist möglich, sofern ein Grad des Vertrauens von weniger als 95 % akzeptabel ist.

**UGB2** A non-compliance statement may be possible where a confidence level of less than 95 % is acceptable.  
Die Bestätigung der Nicht-Konformität ist möglich, sofern ein Grad des Vertrauens von weniger als 95 % akzeptabel ist.

Ref.: ILAC-G8:03/2009 'Guidelines on the Reporting of Compliance with Specification'.

**Notes**  
Anmerkungen

If the new product is stored under the climate conditions as specified in the data sheet upon delivery, the product's accuracy is not significantly affected within 12 month after its calibration in our factory. In this case, the recommended calibration interval starts on the date when the product is actually put into operation.

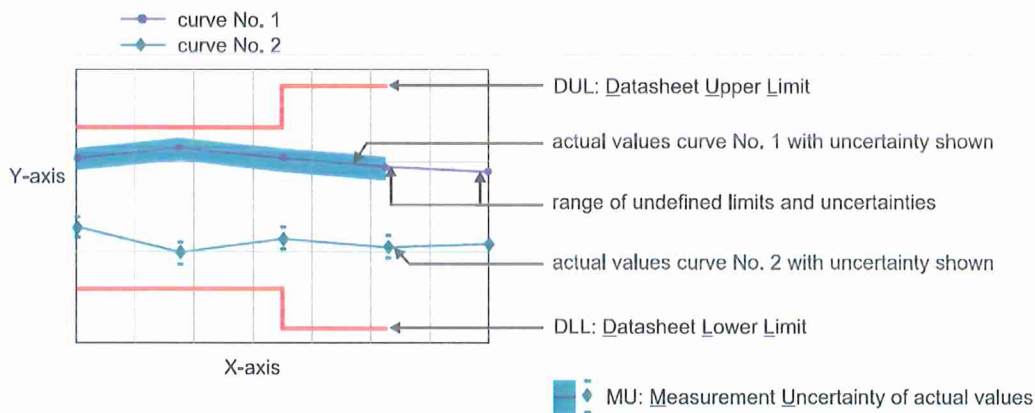


# Outgoing Results

## The following abbreviations may be used in this document

- {a} No measurement uncertainty stated because the errors always add together. So it is sure that a measurement result evaluated as "PASS" is pass.
- {b} The measurement uncertainty depends on the measurement result. The stated measurement uncertainty is valid for the close area around the specification. Measurement results outside the close area have a higher measurement uncertainty but are within the specification.
- {c} Functional test, therefore no measurement uncertainty is stated.
- {d} Typical value, refer to performance test.
- {e} The measurement uncertainty is taken into account when setting the measuring system.
- DL or DT Data Limit for symmetrical tolerance limits
- DLL Datasheet Lower Limit
- DUL Datasheet Upper Limit
- MU Measurement Uncertainty
- MLL or MLV Measurement Uncertainty Lower Value
- MUL or MUV Measurement Uncertainty Upper Value
- Nom. Nominal Value
- Dev. Deviation
- MErr. Measurement Error
- Act. Actual Value
- UGB Uncertainty Guard Band: Measuring uncertainty violates the data (spec.) limit.
- UGB1 Measurement results marked as UGB1 show conformity with a probability of >50 %and <95 %.
- UGB2 Measurement results marked as UGB2 show non-conformity with a probability of >50 %and <95 %.
- DU Datasheet Uncertainty

## Explanation of charts



**Software used for measurement**

**Item Type**

**Version**

**Remark**

Measurement Studio Professional Edition  
MixerCertification

2013  
7\_12