



NTN TEST REPORT

No. 24T04Z102024-022

for

HMD Global Oy

Model Name: TA-1698

FCC ID: 2AJOTTA-1698

with

Hardware Version: V0.21

Software Version: TA1698.GLO_001

Issued Date: 2024-11-06

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.

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04Z102024-022	Rev.0	1 st edition	2024-11-06

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 American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA 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: 2024-10-06

Testing End Date: 2024-11-06

1.5. Signature



(Prepared this test report)



(Reviewed this test report)



(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: HMD Global Oy
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Fax: /

2.2. Manufacturer Information

Company Name: HMD Global Oy
Address /Post: Bertel Jungin aukio 9, 02600 Espoo, Finland
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Telephone: +491735287964
Fax: /

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

3.1. About EUT

Description	Locator
Model Name	TA-1698
FCC ID	2AJOTTA-1698
Antenna	Embedded
Output power	23.86dBm maximum conducted power for band23 23.08dBm maximum conducted power for band255
Extreme Voltage	3.50VDC to 4.35VDC (nominal: 3.85VDC)
Extreme Temperature	-30°C to +50°C
NTN mode	NB-IoT NTN
Frequency	B23:US/UL:2000.1MHz-2019.9 MHz;DL:2180.1 MHz -2199.9 MHz B255:Global/UL:1626.6 MHz -1660.4 MHz;DL:1525.1 MHz -1558.9 MHz
Modulation	BPSK//QPSK
Sub-carrier spacing	15 kHz/3.75kHz
Antenna gain	B23: 1.17dBi B255: 0.87 dBi

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
EUT1	TA169800000199	V0.21	TA1698.GLO_001
EUT2	TA169800000180	V0.21	TA1698.GLO_001

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



4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters are supplied by the customer, which are the bases of testing. CAICT is not responsible for the accuracy of customer supplied technical information that may affect the test results (for example, antenna gain and loss of customer supplied cable).

4.2. Reference Documents for testing

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

Reference	Title	Version
FCC Part 25	Satellite Communications	10-1-23 Edition
ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2016
ANSI C63.26	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	2015
KDB 971168 D01	MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS	v03r01

5. Summary of Test Result

NTN band 23

Items	Test Name	Limit	Clause in FCC rules	EUT ID	Verdict
1	Output Power	-	25.204	EUT1	Information only
2	Frequency Stability	Within 0.001 percent of the reference frequency	25.202/ 2.1055	EUT1	P
3	Occupied Bandwidth	2.1049	2.1049	EUT1	P
4	Band Edge Compliance	25.202(f)(1)(2)	25.202	EUT1	P
5	Conducted Spurious Emission	25.202(f)(3)	25.202/25.216	EUT1	P
6	Field Strength of Spurious Radiation	25.202	25.202	EUT2	P

NTN band 255

Items	Test Name	Limit	Clause in FCC rules	EUT ID	Verdict
1	Output Power	-	25.204	EUT1	Information only
2	Frequency Stability	Within 0.001 percent of the reference frequency	25.202/2.1055	EUT1	P
3	Occupied Bandwidth	2.1049	2.1049	EUT1	P
4	Band Edge Compliance	25.202(f)(1)(2)	25.202	EUT1	P
5	Conducted Spurious Emission	25.202(f)(3)	25.202/25.216	EUT1	P
6	Field Strength of Spurious Radiation	25.202	25.202	EUT2	P

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.

All the test results are based on normal power.



Measurement uncertainty is not taken into account when stating conformity with a specified requirement.

Explanation of worst-case configuration

The worst-case scenario for all measurements is based on the conducted output power measurement investigation results unless otherwise stated. The test results shown in the following sections represent the worst case emission.

6. Test Equipments Utilized and test setup

Description	Type	Series Number	Manufacture	Cal Due Date	Calibration Interval
Spectrum Analyzer	FSV	101576	R&S	2025-05-08	1 year
Communication Tester	CMW500	168471	R&S	2024-12-01	1 year
Spectrum Analyzer	FSV30	R&S	101525	2025-01-18	1 year
Antenna	VULB9163	Schwarzbeck	9163-482	2025-05-19	1 year
Antenna	9117	Schwarzbeck	167	2026-10-15	3 year
Antenna	LB-7180-NF	A-INFO	J2030013000005	2025-05-16	1 year
Antenna	3115	ETS-Lindgren	00146404	2025-05-16	1 year
Signal Generator	SMF100A	Agilent	101295	2025-02-04	1 year

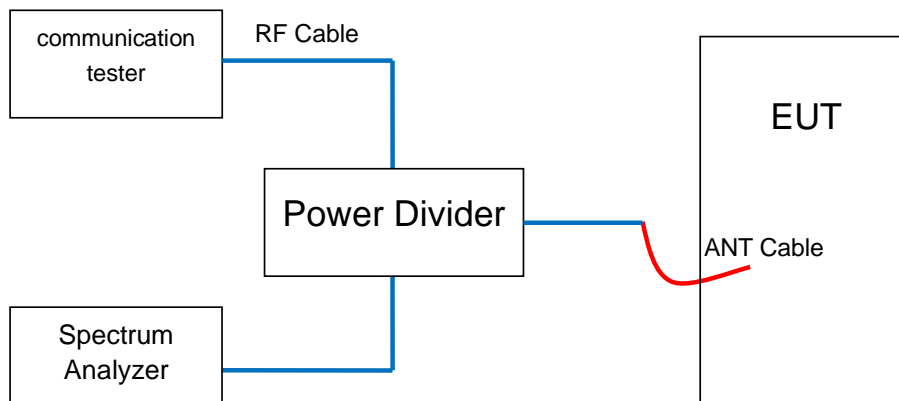


Fig.1 Test Setup Diagram

Conductive testing layout is as Fig. 1:

As shown in Fig. 1, EUT is placed in a chamber. An RF cable is used to forward the testing commands from the communication tester to the EUT via a power divider. The communication tester is responsible to send the RF transmission command in signaling mode. The EUT is connected with a power divider via an RF cable. The Spectrum Analyzer is connected with the power divider and used to test the emission of the EUT in specific frequency range.

Annex A: Measurement Results

A.1 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.

Output power is reused and the EIRP is calculated by $EIRP=A+G$, which A refers to the max power of the transmitter and the G is the antenna gain provided by applicant company.

A.1.2 Conducted

A.1.2.1 Method of Measurements

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.

The results below include a correction factor for cable loss that is provided by the customer.

A.1.2.2 Measurement Result

NTN band 23

Sub-carrier Spacing	N _{tones}	Frequency (MHz)	Peak output power(dBm)		EIRP(dBm)	
			BPSK	QPSK	BPSK	QPSK
3.75kHz	1SC46	2019.90	23.47	23.49	24.64	24.66
		2010.00	22.76	22.77	23.93	23.94
		2000.10	23.63	23.49	24.80	24.66
	1SC1	2019.90	23.46	23.48	24.63	24.65
		2010.00	22.72	22.76	23.89	23.93
		2000.10	23.55	23.53	24.72	24.70
15kHz	1SC10	2019.90	23.21	23.17	24.38	24.34
		2010.00	22.95	23.13	24.12	24.30
		2000.10	23.86	23.81	25.03	24.98
	1SC1	2019.90	23.07	23.17	24.24	24.34
		2010.00	23.27	23.08	24.44	24.25
		2000.10	23.76	23.85	24.93	25.02
	12SC0	2019.90	-	21.52	-	22.69
		2010.00	-	21.12	-	22.29
		2000.10	--	21.76	-	22.93

NTN band 255

Sub-carrier Spacing	N _{tones}	Frequency (MHz)	Peak output power(dBm)		EIRP(dBm)	
			BPSK	QPSK	BPSK	QPSK
3.75kHz	1SC46	1660.40	22.51	22.58	23.38	23.45
		1643.50	22.75	22.89	23.62	23.76
		1626.60	22.30	22.30	23.17	23.17
	1SC1	1660.40	22.51	22.53	23.38	23.4
		1643.50	22.77	22.81	23.64	23.68
		1626.60	22.34	22.35	23.21	23.22
15kHz	1SC10	1660.40	22.91	23.06	23.78	23.93
		1643.50	23.04	23.01	23.91	23.88
		1626.60	22.57	22.56	23.44	23.43
	1SC1	1660.40	23.06	22.98	23.93	23.85
		1643.50	23.06	23.08	23.93	23.95
		1626.60	22.63	22.70	23.5	23.57
	12SC0	1660.40	-	21.08		21.95
		1643.50	-	20.92		21.79
		1626.60	-	21.04		21.91

Note: Expanded measurement uncertainty is ± 1 dB, $k = 2$.

A.2 Frequency Stability

A.2.1 Method of Measurement

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage. Two reference points are established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and highest channel of operation shall be identified as F_L and F_H respectively.

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of CMW500.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on mid channel of each band, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Remeasure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments remeasuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.

6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10°C decrements from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of the lower, higher and nominal voltage. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress.

A.2.2 Measurement results

NTN band 23 15kHz Sub-carrier Spacing

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Frequency error(Hz)	Deviation(ppm)
20	3.85	2000.1	2019.9	17.12	0.00856
50				25.47	0.012734
40				26.20	0.013099
30				22.02	0.011009
10				23.27	0.011634
0				26.54	0.013269
-10				24.05	0.012024
-20				27.95	0.013974
-30				20.42	0.010209

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Frequency error (Hz)	(ppm)
3.50	20	2000.1	2019.9	21.83	0.010914
4.35				21.94	0.010969

NTN band 255 15kHz subcarrier spacing

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Frequency error (Hz)	(ppm)
20	3.85	1626.6	1660.4	18.87	0.011601
50				20.96	0.012886
40				18.69	0.01149
30				21.50	0.013218
10				18.99	0.011675
0				16.63	0.010224
-10				21.55	0.013248
-20				22.39	0.013765
-30				13.89	0.008539

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Frequency error (Hz)	(ppm)
3.50	20	1626.6	1660.4	18.01	0.011072
4.35				16.54	0.010168

Note: Expanded measurement uncertainty is <20 Hz, k = 2.

A.3 Occupied Bandwidth

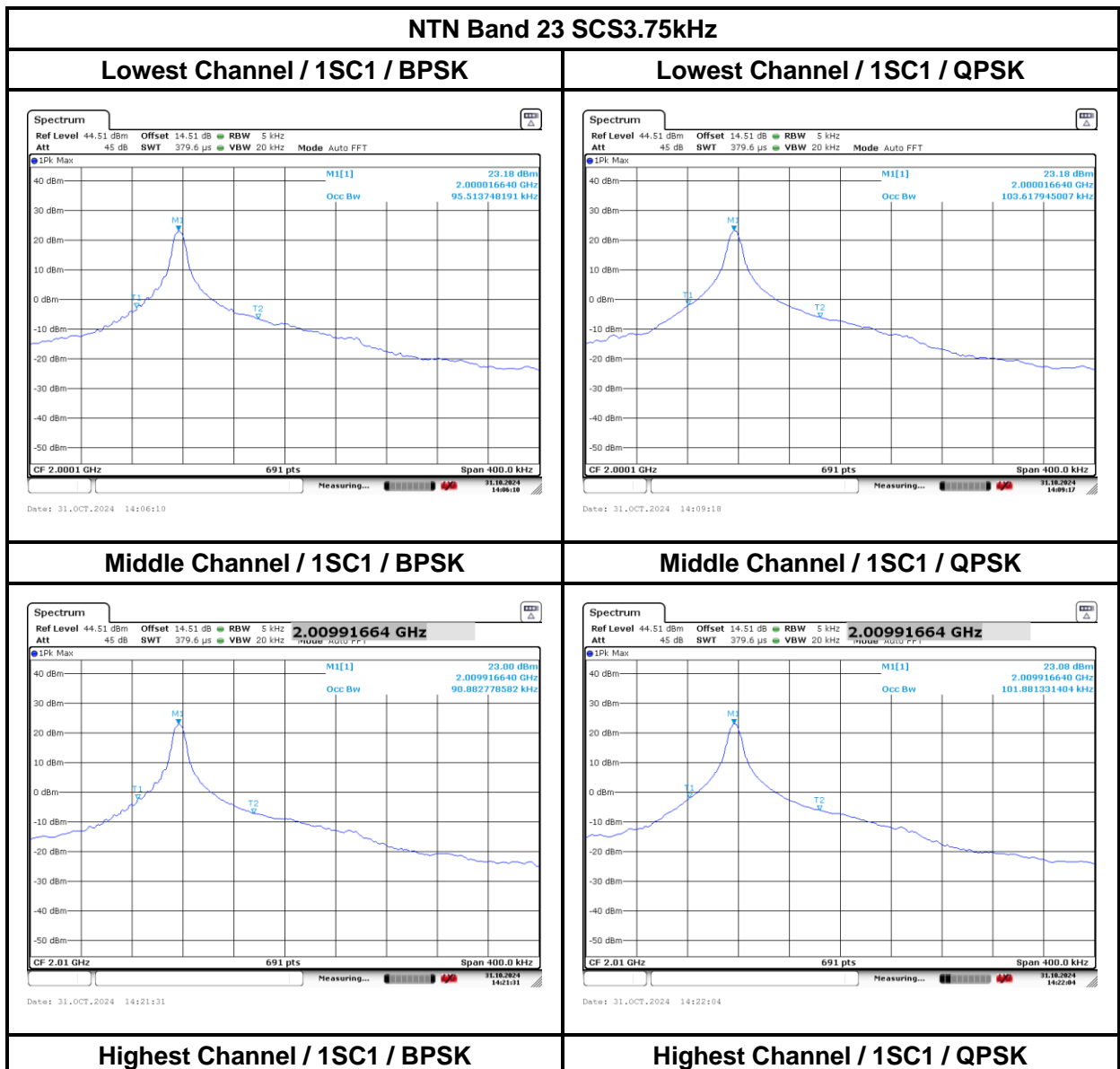
Occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequency. The table below lists the measured 99% BW. Spectrum analyzer plots are included on the following pages.

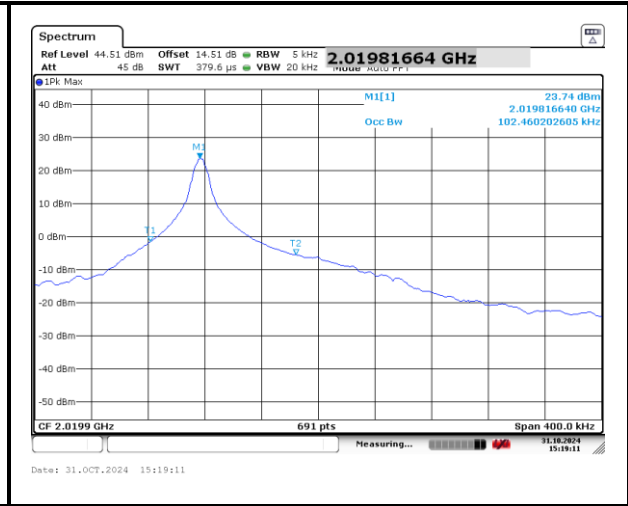
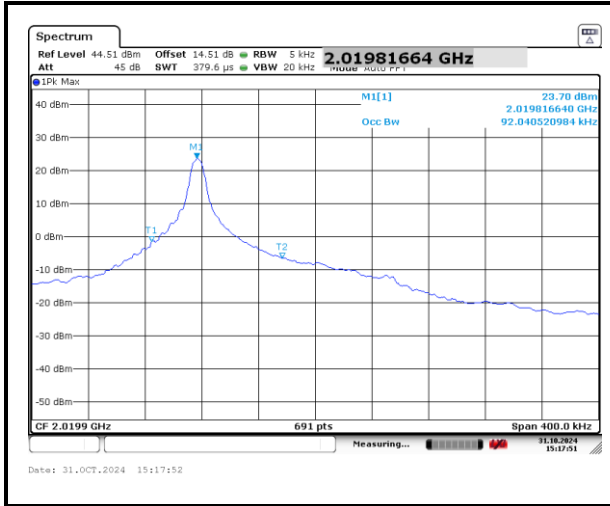
The measurement method is from ANSI C63.26:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts.
- b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ RBW.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) Set the detection mode to peak, and the trace mode to max-hold.

Occupied Bandwidth

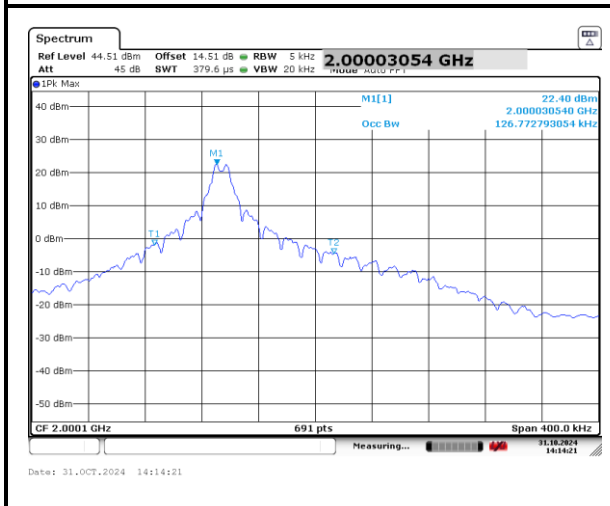
Mode	Band 23: 99%OBW(kHz)						
SCS	3.75kHz		15kHz				
Mod.	BPSK	QPSK	BPSK	QPSK	QPSK	QPSK	QPSK
SC Size	1SC1	1SC1	1SC1	1SC1	3SC0	6SC0	12SC0
Lowest CH	95.514	103.618	120.773	123.878	110.564	143.560	181.187
Middle CH	90.883	101.881	127.352	126.194	114.616	148.770	181.187
Highest CH	92.041	102.460	126.194	125.615	111.722	150.507	181.187



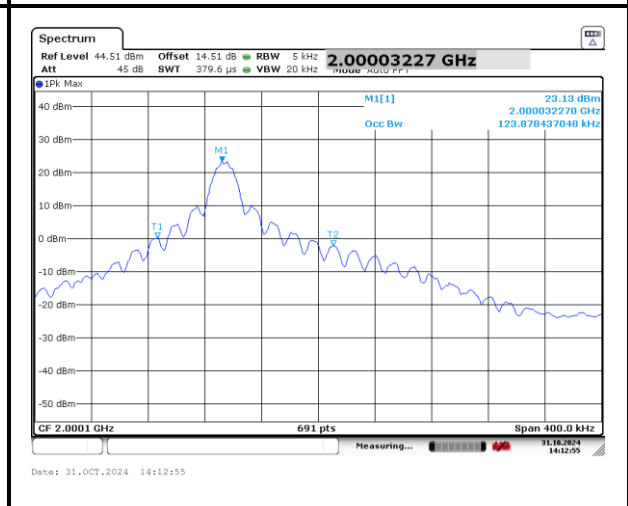


NTN Band 23 SCS15kHz

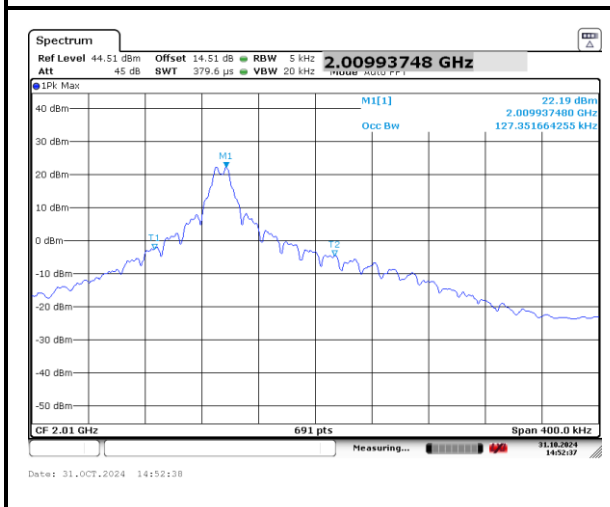
Lowest Channel / 1SC1 / BPSK



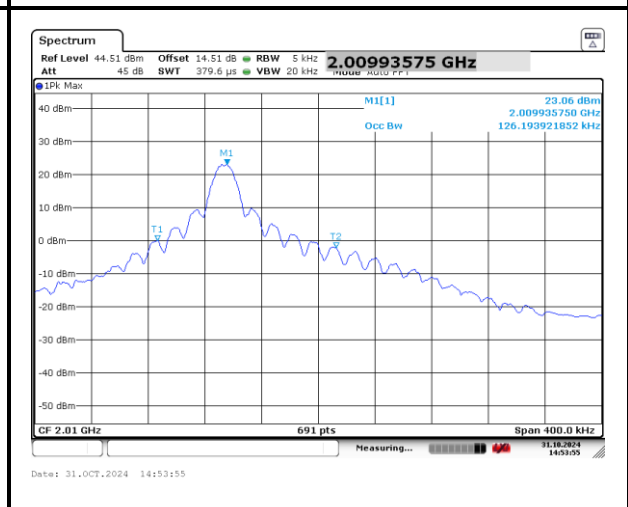
Lowest Channel / 1SC1 / QPSK



Middle Channel / 1SC1 / BPSK

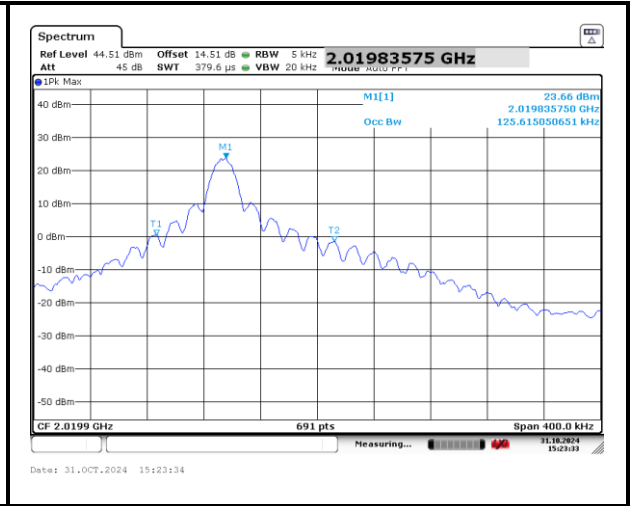
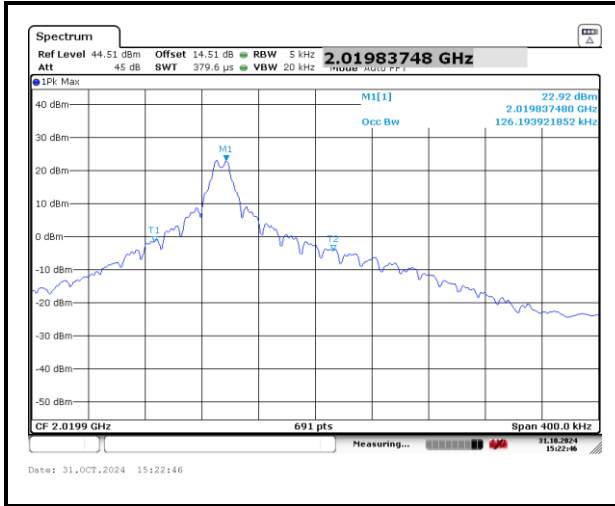


Middle Channel / 1SC1 / QPSK

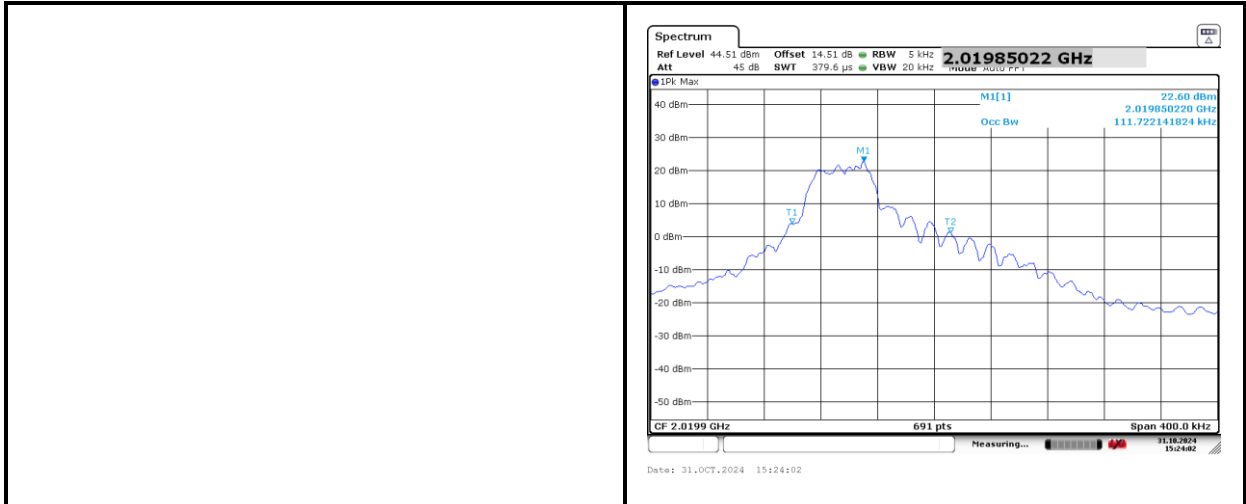


Highest Channel / 1SC1 / BPSK

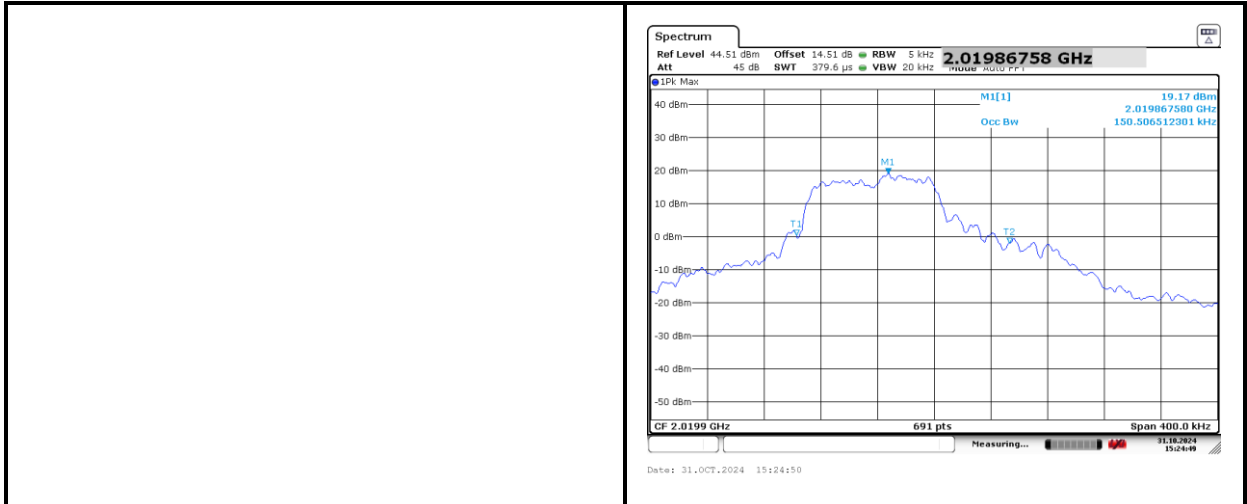
Highest Channel / 1SC1 / QPSK



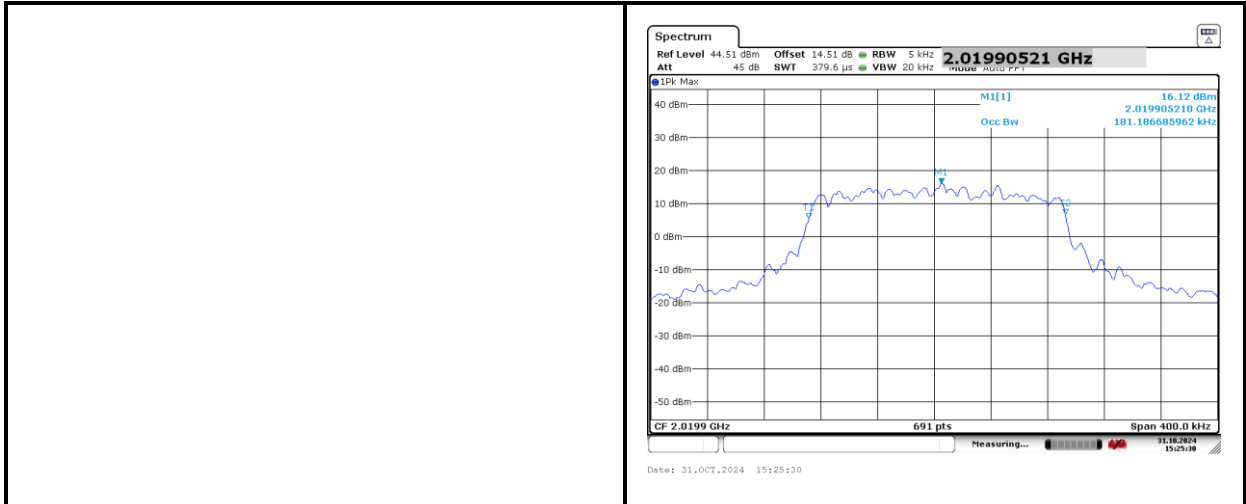
NTN Band 23 SCS15kHz	
N/A	Lowest Channel / 3SC0 / QPSK
	<p>Spectrum Ref Level 44.51 dBm Offset 14.51 dB RBW 5 kHz Att 45 dB SWT 379.6 μs VBW 20 kHz 2.00005022 GHz 1Pk Max 22.56 dBm 2.000050220 GHz 110.564399421 kHz M1 T1 T2 Occ Bw CF 2.0001 GHz 691 pts Span 400.0 kHz Date: 31.OCT.2024 14:14:57</p>
N/A	Middle Channel / 3SC0 / QPSK
	<p>Spectrum Ref Level 44.51 dBm Offset 14.51 dB RBW 5 kHz Att 45 dB SWT 379.6 μs VBW 20 kHz 2.00995022 GHz 1Pk Max 22.54 dBm 2.009950220 GHz 114.616497829 kHz M1 T1 T2 Occ Bw CF 2.01 GHz 691 pts Span 400.0 kHz Date: 31.OCT.2024 14:57:12</p>
N/A	Highest Channel / 3SC0 / QPSK



NTN Band 23 SCS15kHz	
N/A	Lowest Channel / 6SC0 / QPSK
N/A	Middle Channel / 6SC0 / QPSK
N/A	Highest Channel / 6SC0 / QPSK

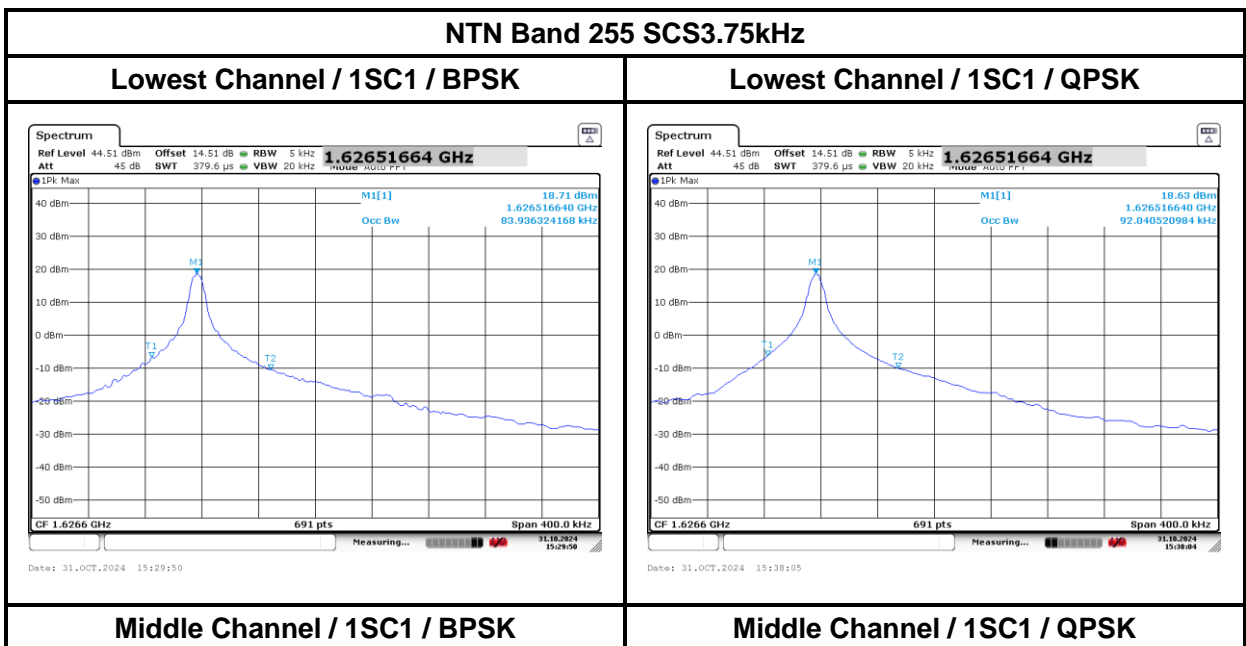


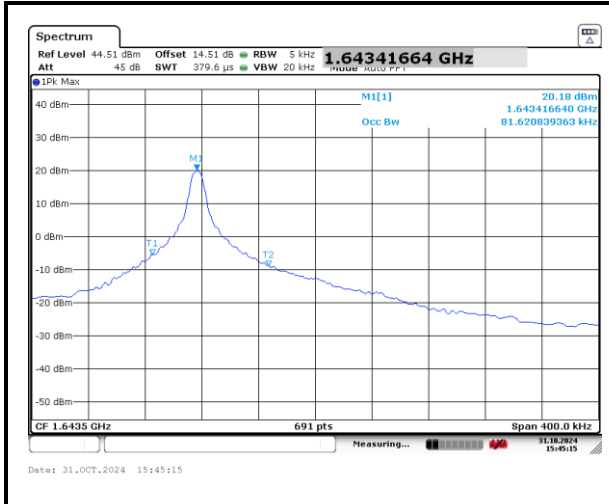
NTN Band 23 SCS15kHz	
N/A	Lowest Channel / 12SC0 / QPSK
N/A	Middle Channel / 12SC0 / QPSK
N/A	Highest Channel / 12SC0 / QPSK



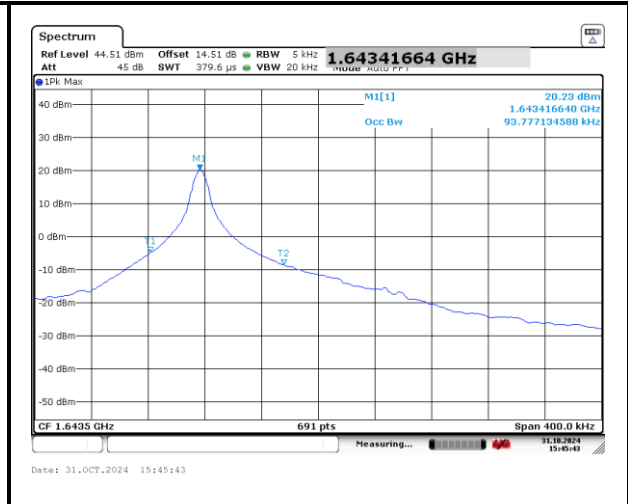
Occupied Bandwidth

Mode	Band 255: 99%OBW(kHz)						
	3.75kHz		15kHz				
SCS	3.75kHz		15kHz				
Mod.	BPSK	QPSK	BPSK	QPSK	QPSK	QPSK	QPSK
SC Size	1SC1	1SC1	1SC1	1SC1	3SC0	6SC0	12SC0
Lowest CH	83.936	92.041	122.142	122.721	107.091	136.634	101.187
Middle CH	81.621	93.777	121.563	122.721	101.881	133.719	180.608
Highest CH	83.357	92.619	122.721	121.563	105.355	128.509	181.187

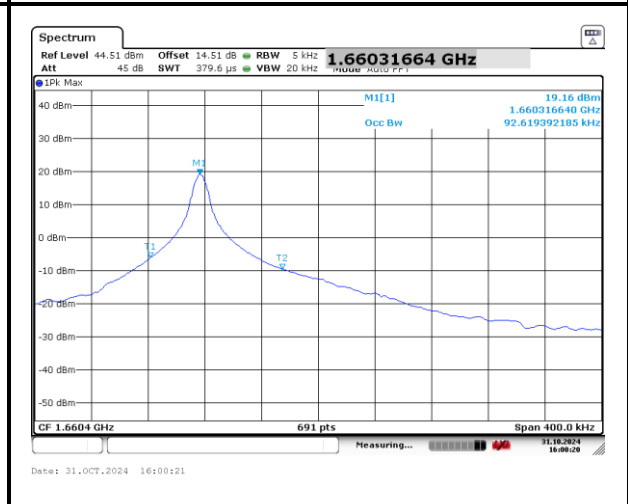
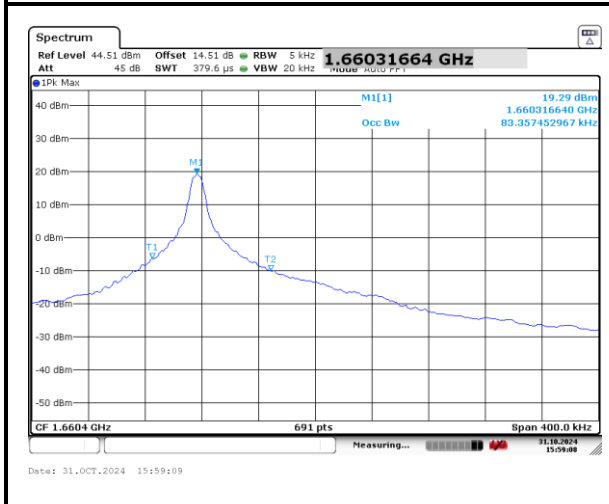




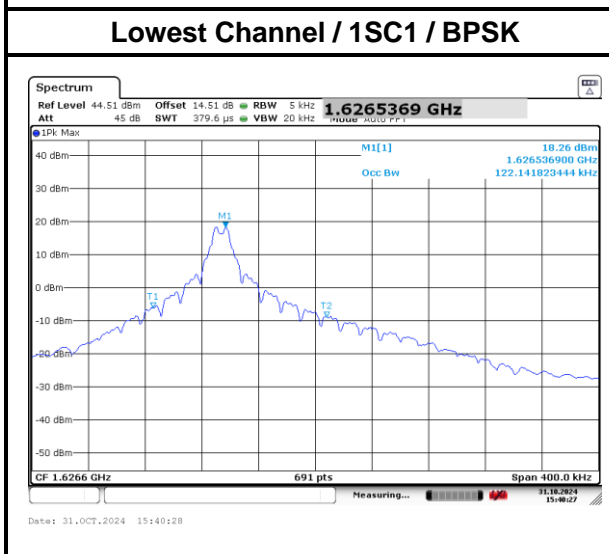
Highest Channel / 1SC1 / BPSK



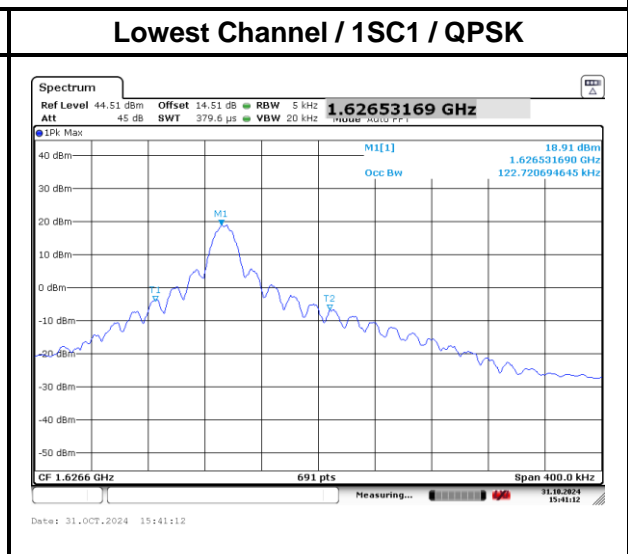
Highest Channel / 1SC1 / QPSK



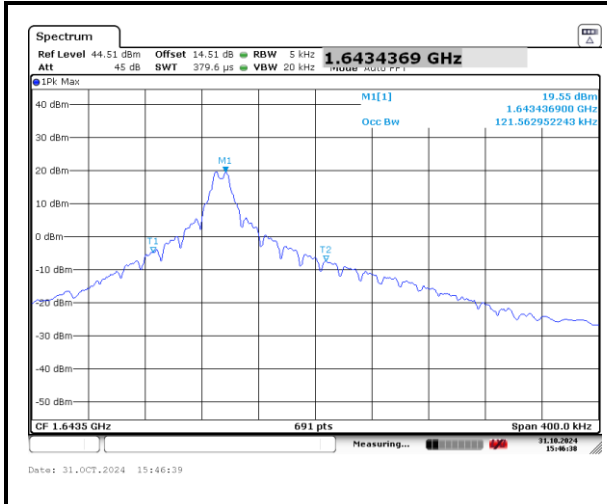
NTN Band 255 SCS15kHz



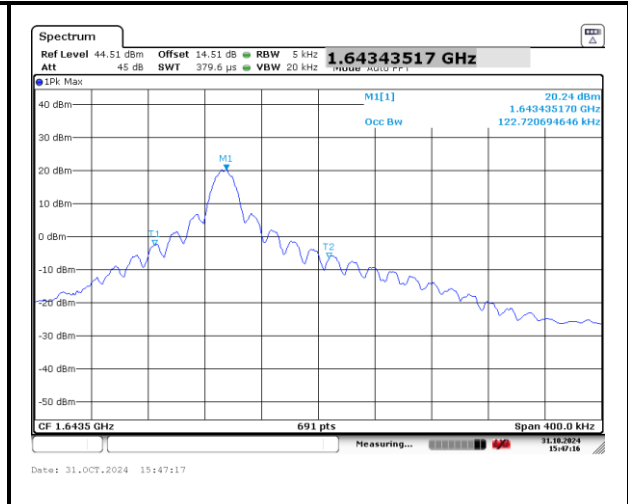
Middle Channel / 1SC1 / BPSK



Middle Channel / 1SC1 / QPSK



Highest Channel / 1SC1 / BPSK



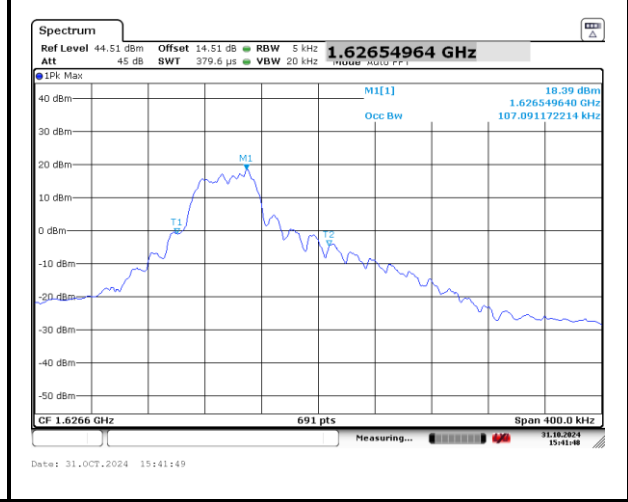
Highest Channel / 1SC1 / QPSK



NTN Band 255 SCS15kHz

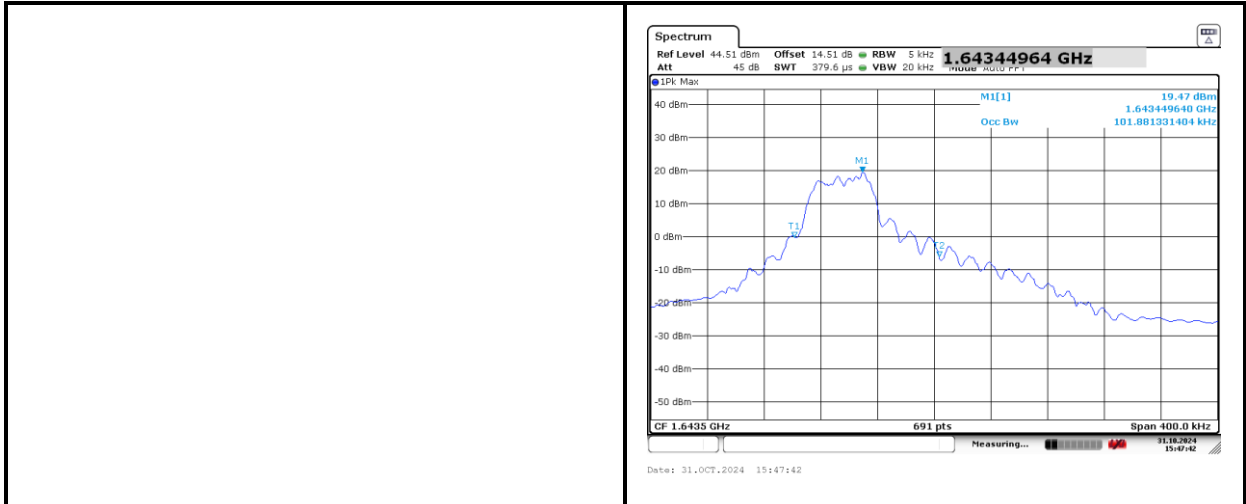
N/A

Lowest Channel / 3SC0 / QPSK



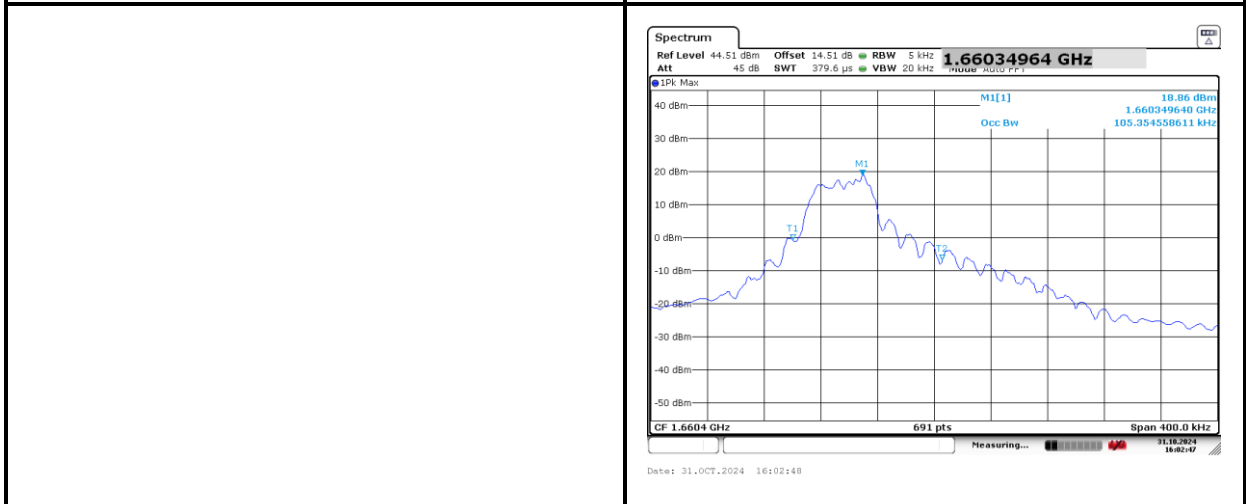
N/A

Middle Channel / 3SC0 / QPSK



N/A

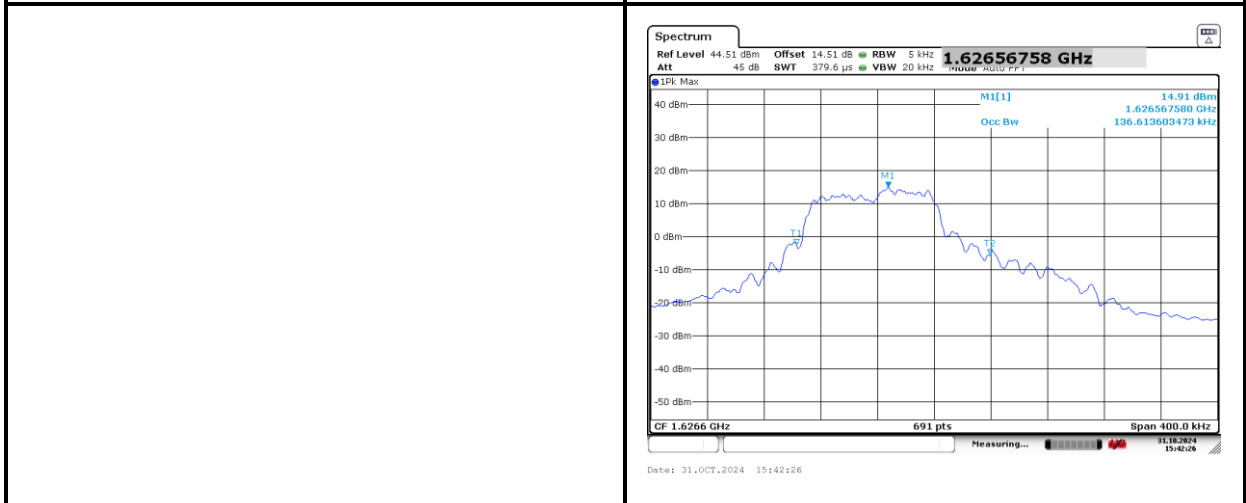
Highest Channel / 3SC0 / QPSK



NTN Band 255 SCS15kHz

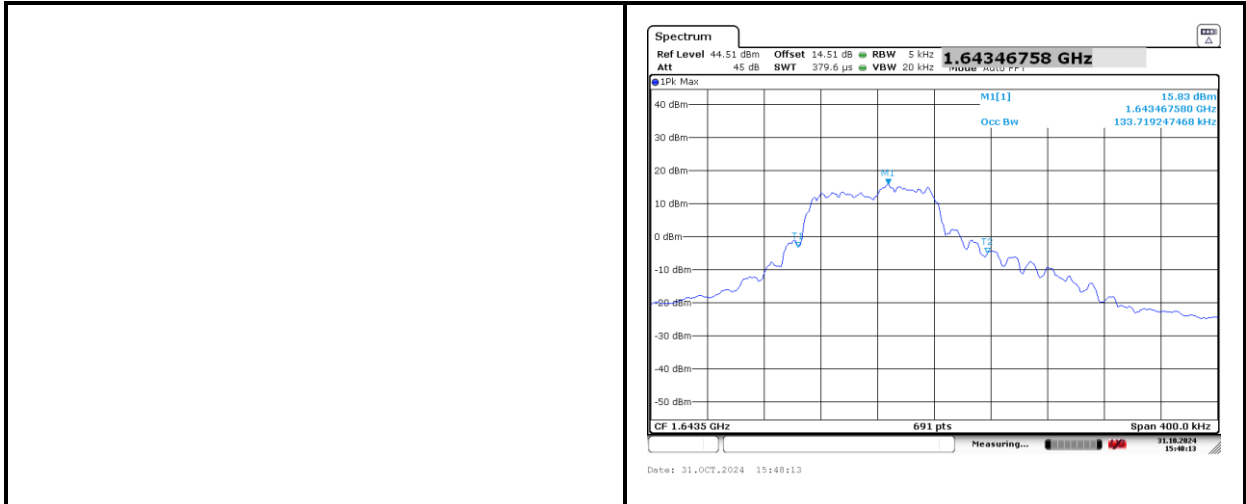
N/A

Lowest Channel / 6SC0 / QPSK



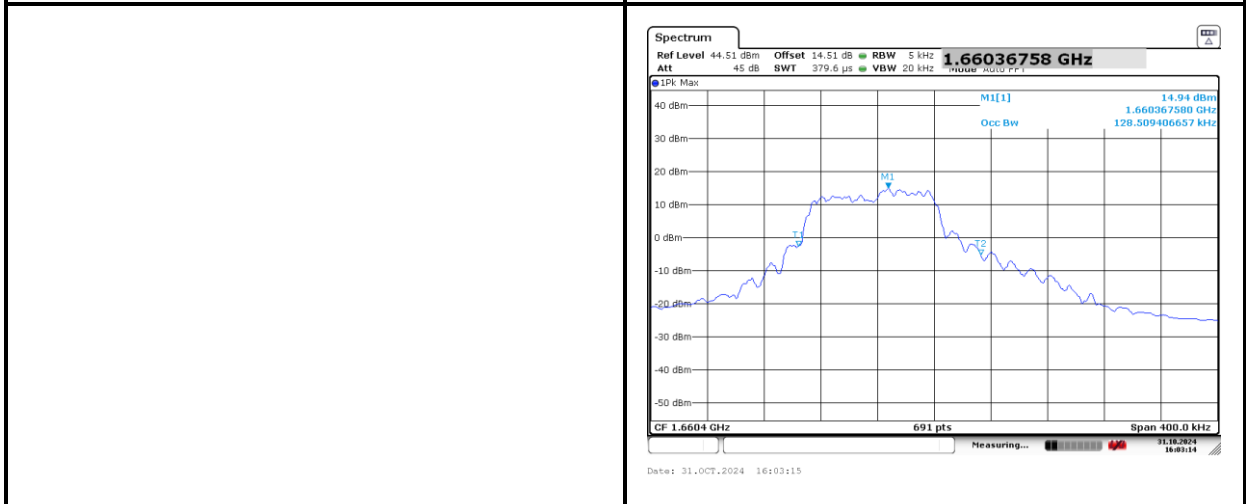
N/A

Middle Channel / 6SC0 / QPSK



N/A

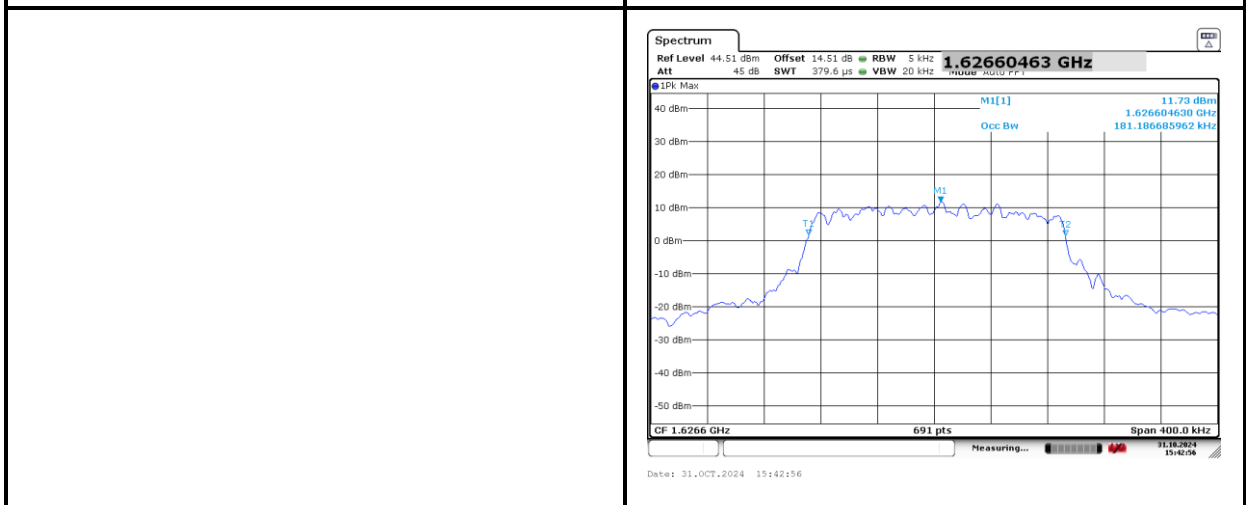
Highest Channel / 6SC0 / QPSK



NTN Band 255 SCS15kHz

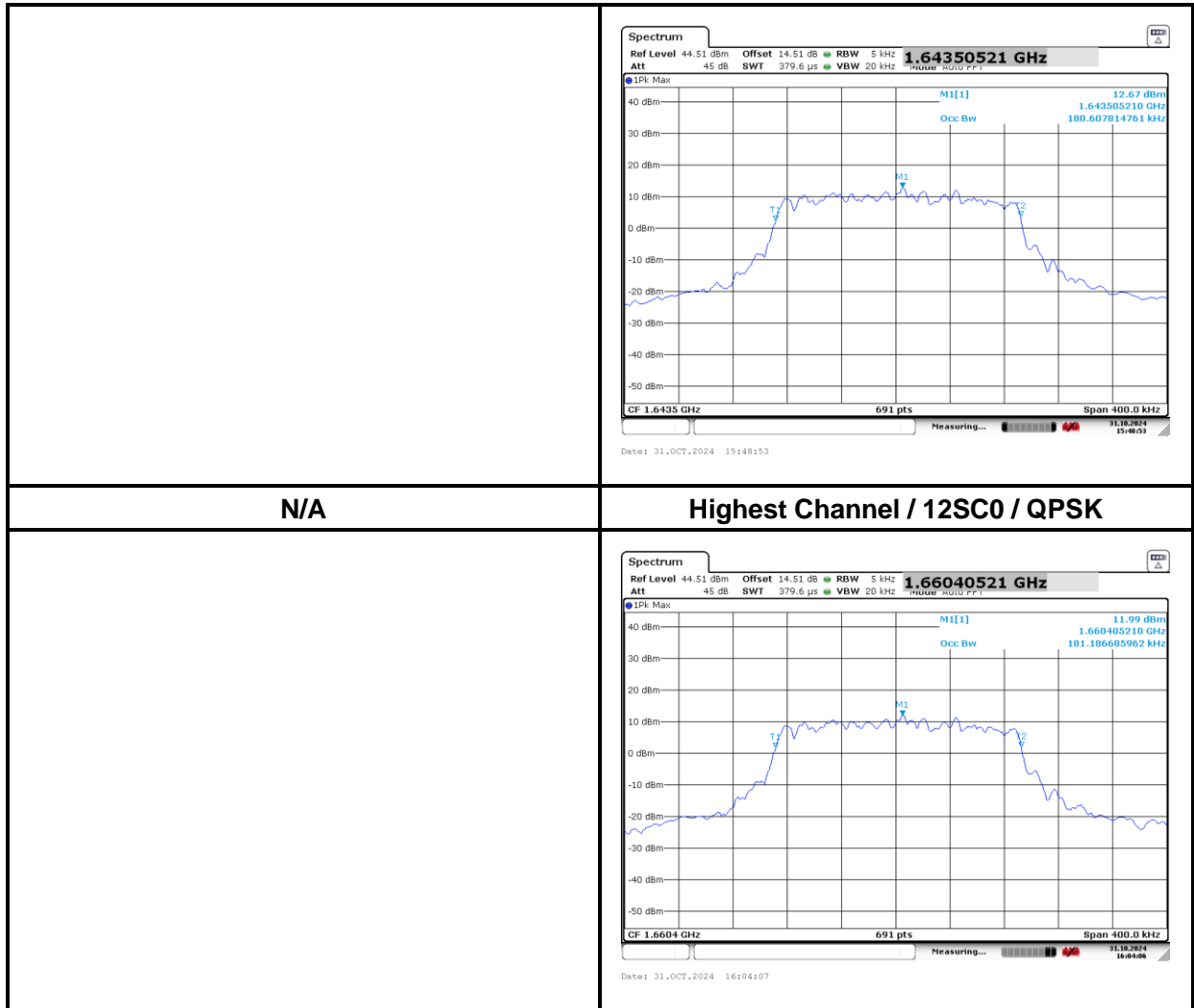
N/A

Lowest Channel / 12SC0 / QPSK



N/A

Middle Channel / 12SC0 / QPSK



Note: Expanded measurement uncertainty is <math>< 20 \text{ Hz}</math>, $k = 2$.

A.4 Band Edge Compliance

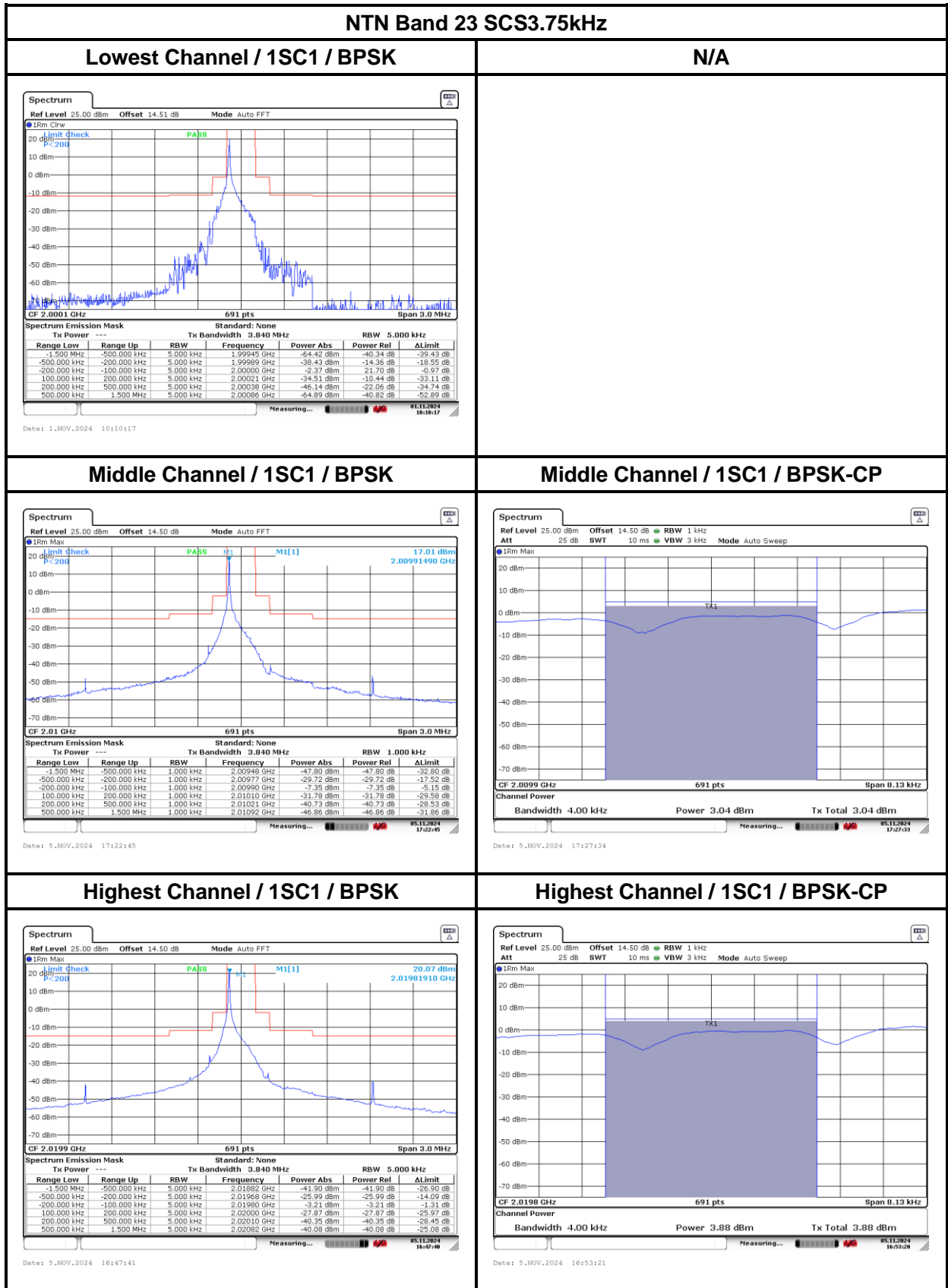
A.4.1 Measurement limit

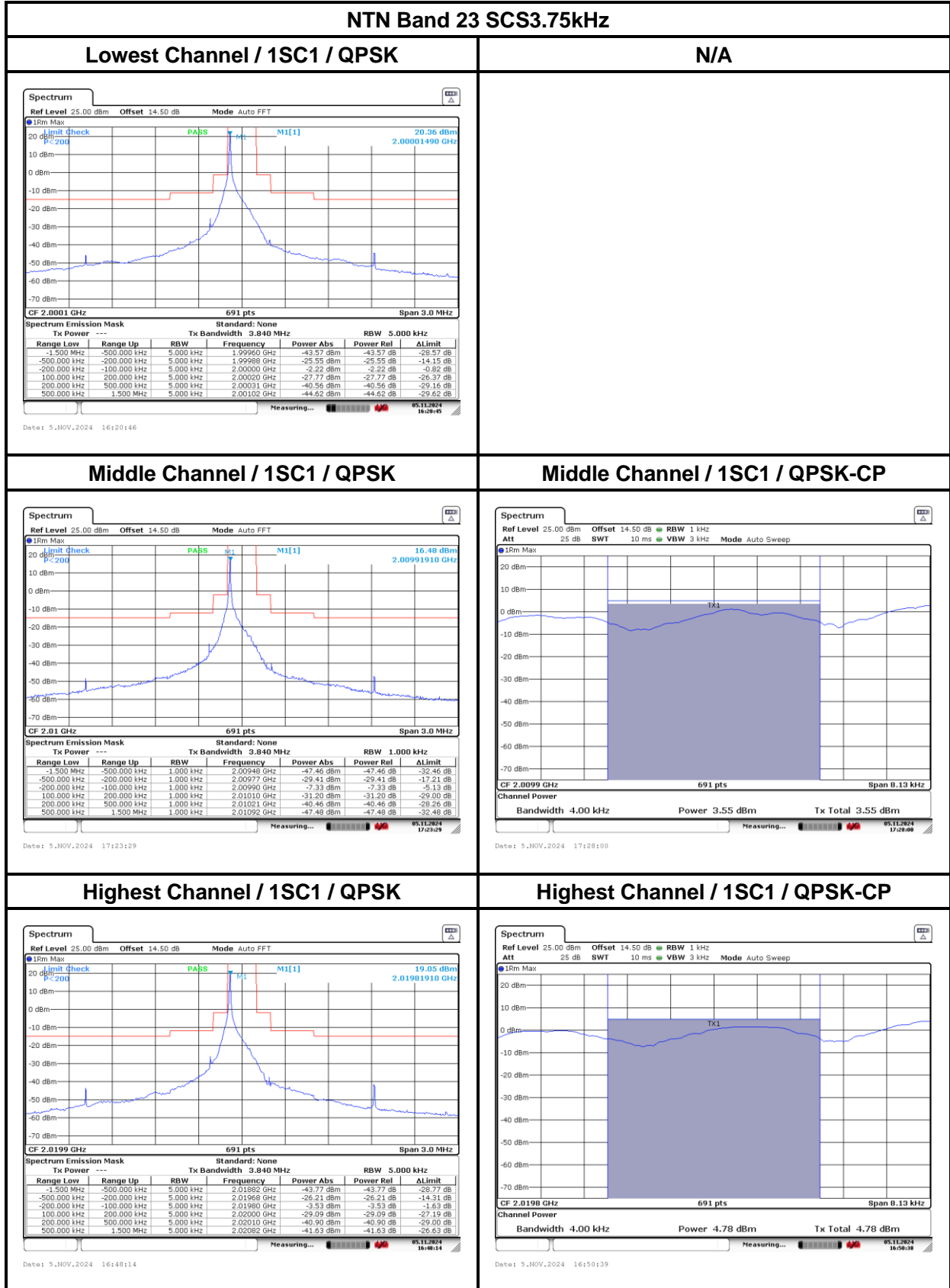
Part 25.202(f) specifies The mean power of the emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

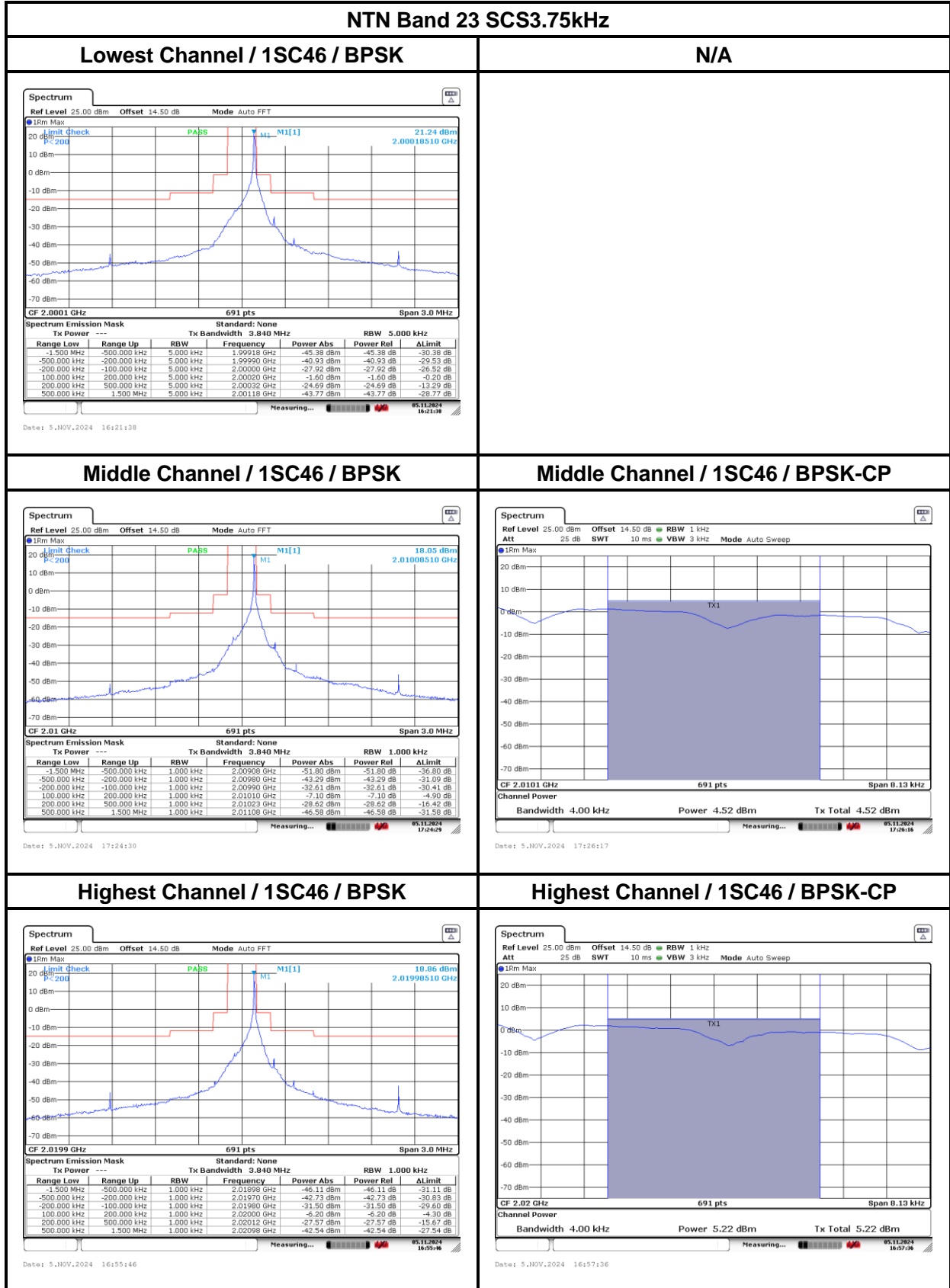
- (1) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 50% up to and including 100% of the authorized bandwidth: 25dB;
- (2) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 100% up to and including 250% of the authorized bandwidth: 35dB;
- (3) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth: An amount equal to 43 dB plus 10 times the logarithm (to the base 10) of the transmitter power in watts;

According to KDB 971168, a relaxation of the reference bandwidth is often provided for measurements within a specified frequency range at the edge of the authorized frequency block/band. This is often implemented by permitting the use of a narrower RBW (typically limited to a minimum RBW of 1% of the OBW) for measuring the out-of-band emissions without a requirement to integrate the result over the full reference bandwidth.

A.4.2 Measurement result

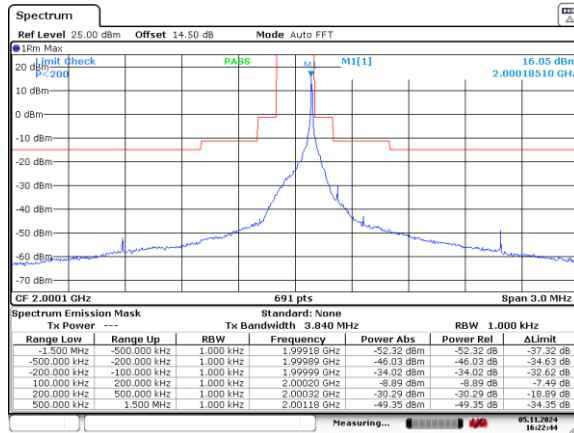






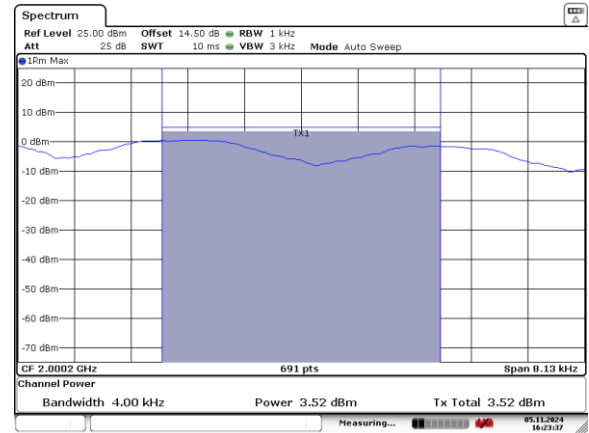
NTN Band 23 SCS3.75kHz

Lowest Channel / 1SC46 / QPSK



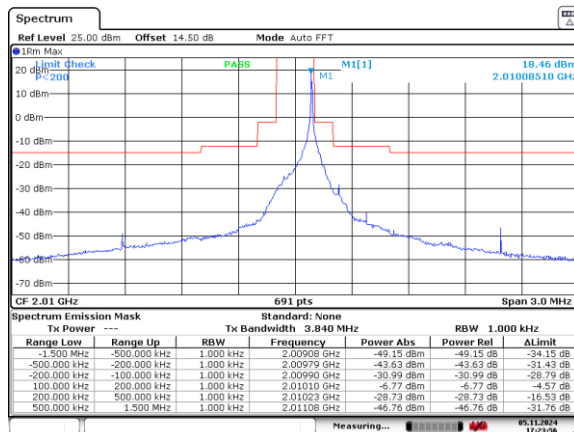
Date: 5.NOV.2024 16:22:44

Lowest Channel / 1SC46 / QPSK-CP



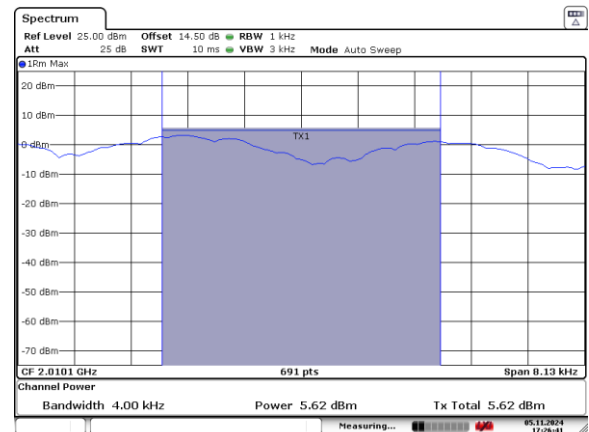
Date: 5.NOV.2024 16:23:38

Middle Channel / 1SC46 / QPSK



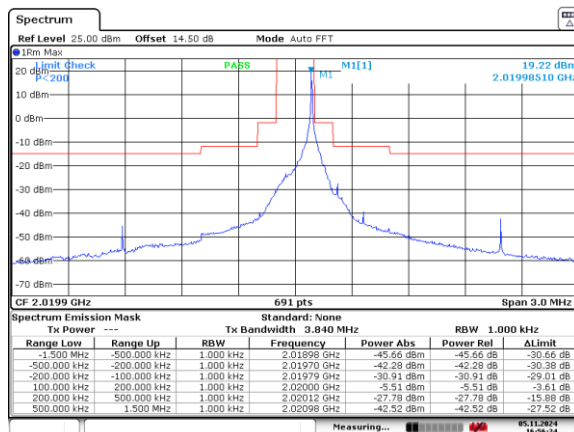
Date: 5.NOV.2024 17:23:56

Middle Channel / 1SC46 / QPSK-CP



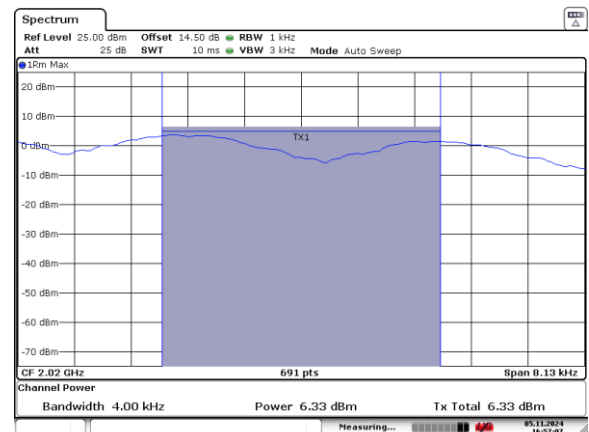
Date: 5.NOV.2024 17:26:41

Highest Channel / 1SC46 / QPSK



Date: 5.NOV.2024 16:56:24

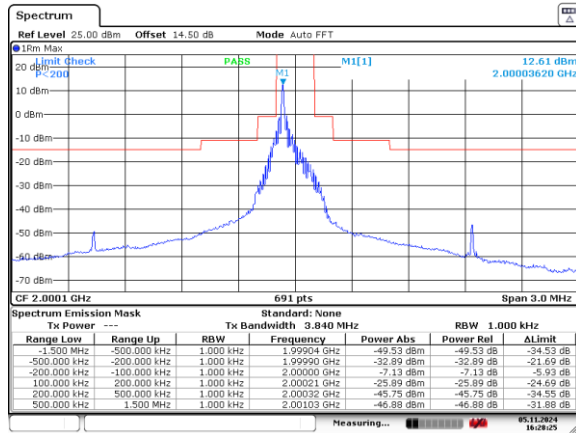
Highest Channel / 1SC46 / QPSK-CP



Date: 5.NOV.2024 16:57:07

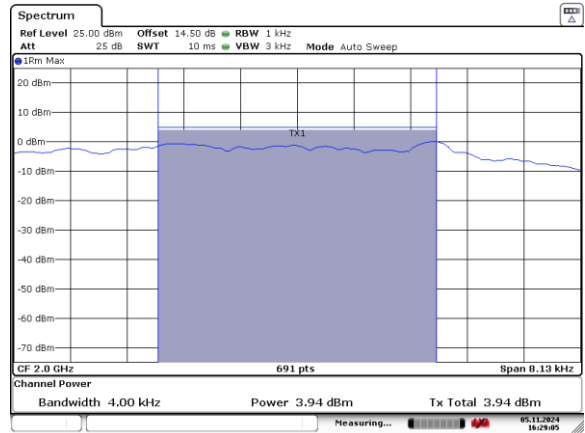
NTN Band 23 SCS15kHz

Lowest Channel / 1SC1 / BPSK



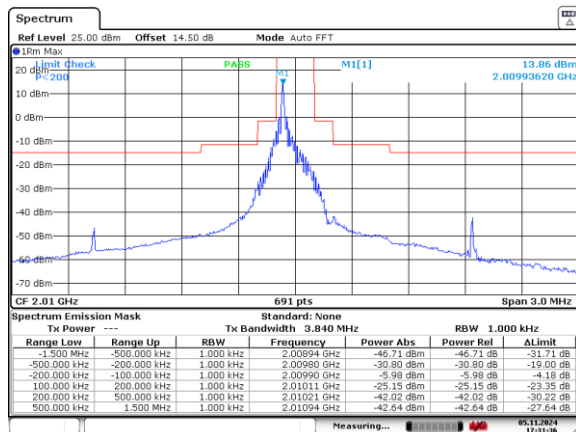
Date: 5.NOV.2024 16:28:25

Lowest Channel / 1SC1 / BPSK-CP



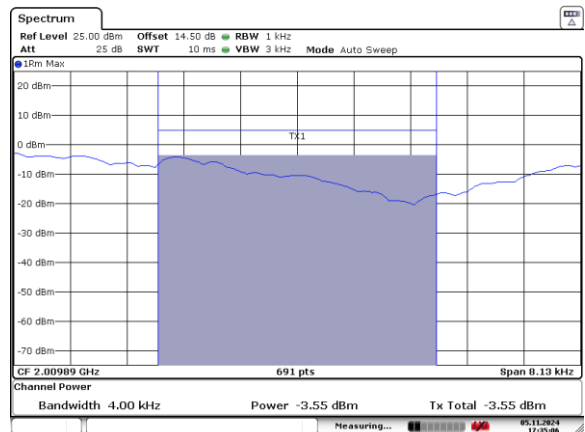
Date: 5.NOV.2024 16:29:05

Middle Channel / 1SC1 / BPSK



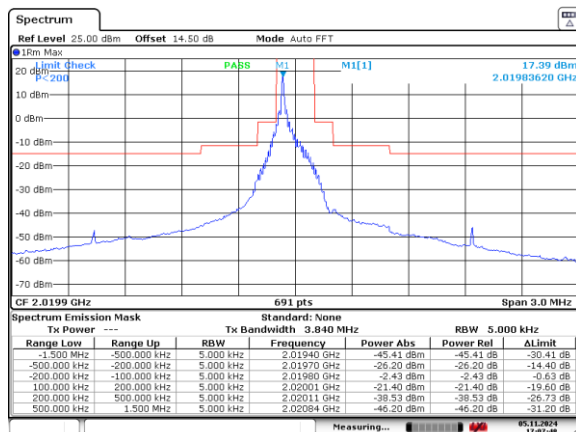
Date: 5.NOV.2024 17:31:36

Middle Channel / 1SC1 / BPSK-CP



Date: 5.NOV.2024 17:35:06

Highest Channel / 1SC1 / BPSK



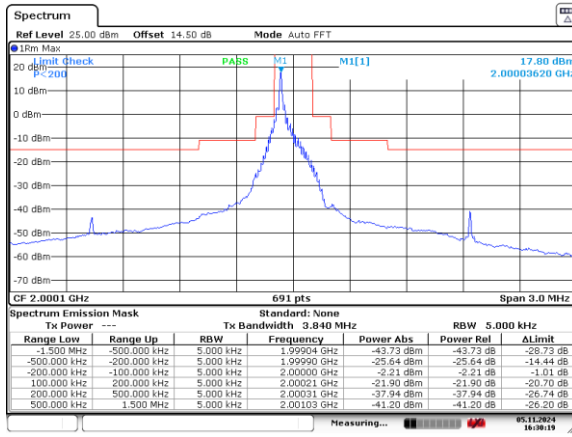
Date: 5.NOV.2024 17:07:49

N/A

NTN Band 23 SCS15kHz

Lowest Channel / 1SC1 / QPSK

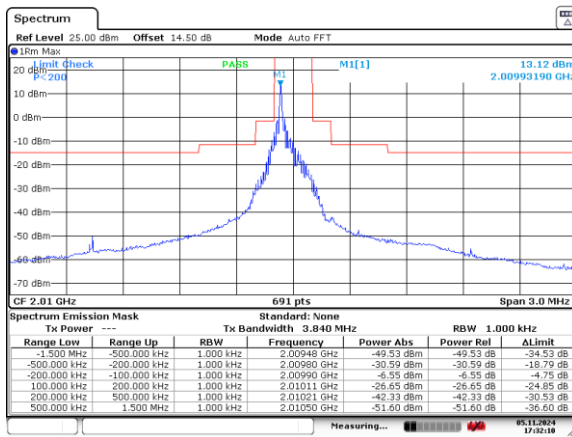
N/A



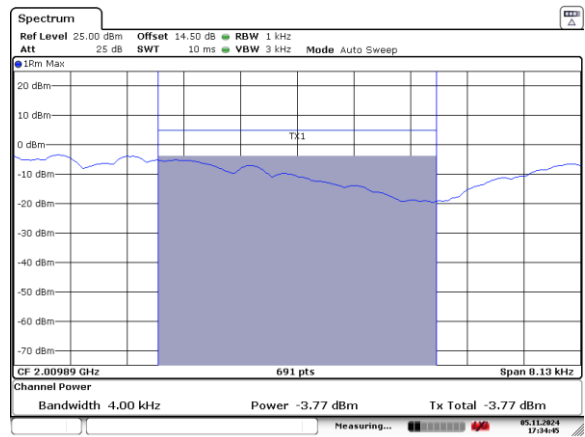
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Middle Channel / 1SC1 / QPSK

Middle Channel / 1SC1 / QPSK-CP



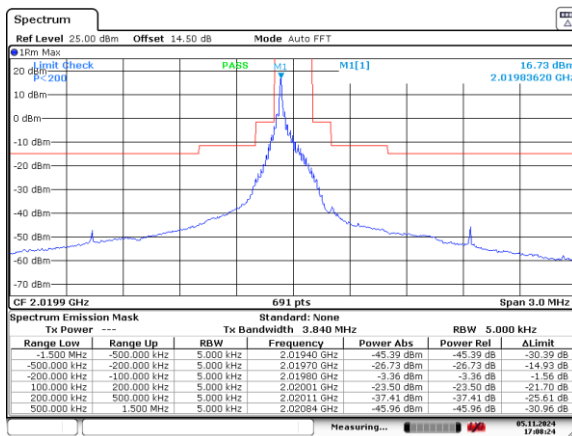
Date: 5.NOV.2024 17:32:11



Date: 5.NOV.2024 17:34:45

Highest Channel / 1SC1 / QPSK

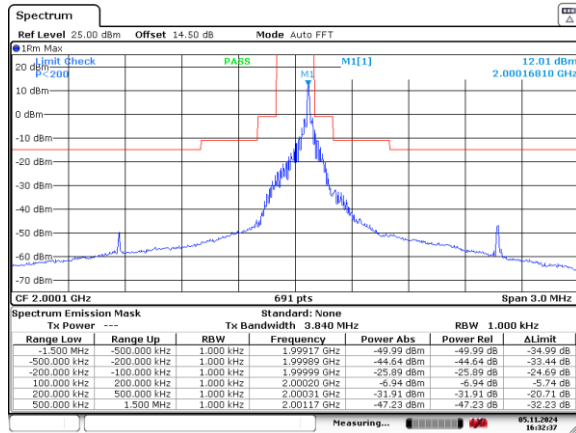
N/A



Date: 5.NOV.2024 17:08:24

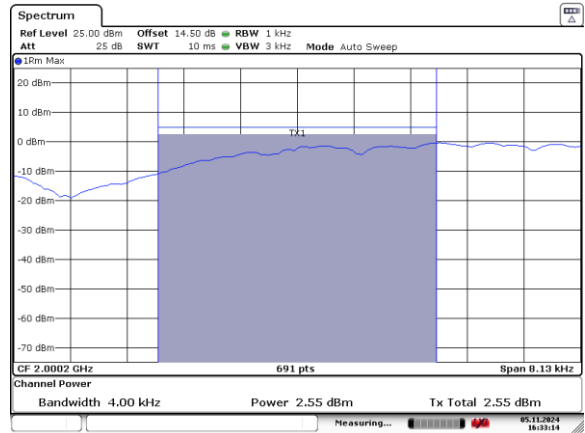
NTN Band 23 SCS15kHz

Lowest Channel / 1SC10 / BPSK



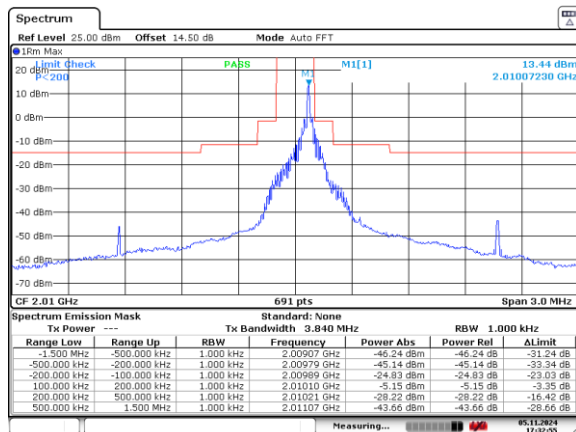
Date: 5.NOV.2024 16:32:37

Lowest Channel / 1SC10 / BPSK-CP



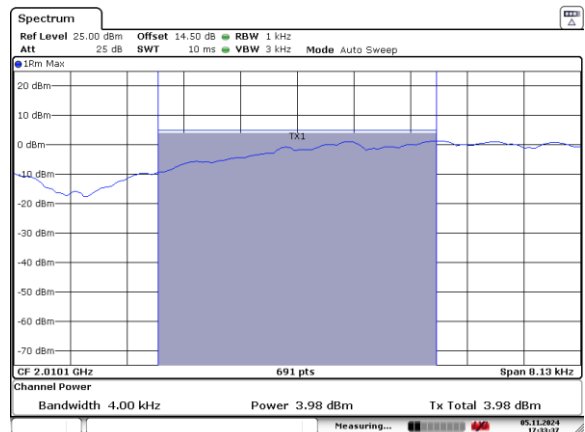
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Middle Channel / 1SC10 / BPSK



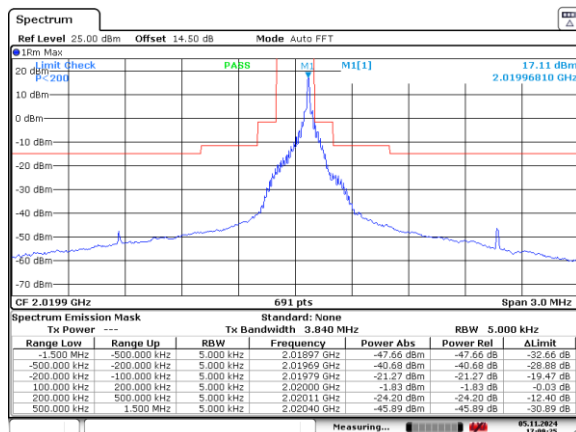
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Middle Channel / 1SC10 / BPSK-CP



Date: 5.NOV.2024 17:33:37

Highest Channel / 1SC10 / BPSK



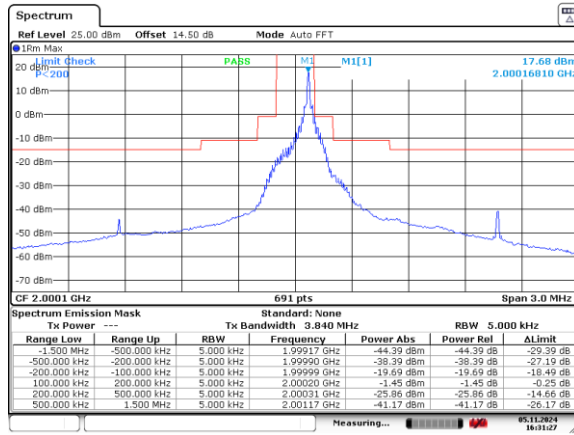
Date: 5.NOV.2024 17:09:25

N/A

NTN Band 23 SCS15kHz

Lowest Channel / 1SC10 / QPSK

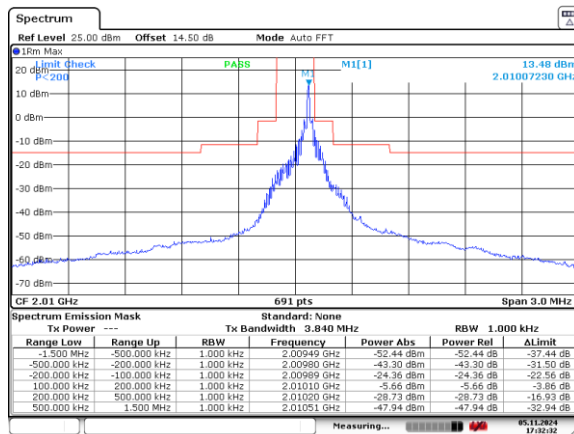
N/A



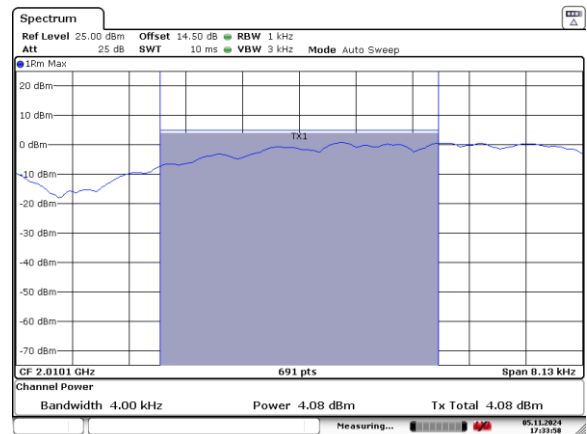
Date: 5.NOV.2024 16:31:28

Middle Channel / 1SC10 / QPSK

Middle Channel / 1SC10 / QPSK-CP



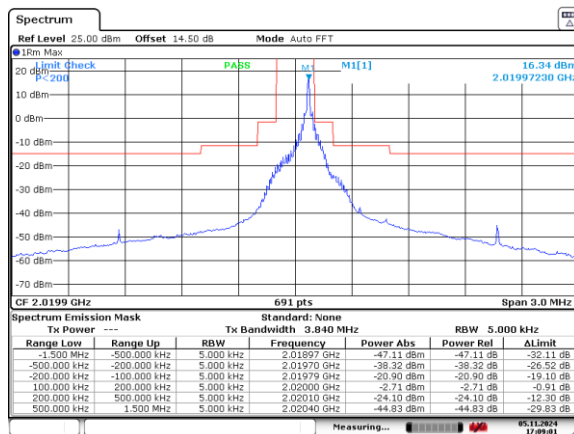
Date: 5.NOV.2024 17:32:32



Date: 5.NOV.2024 17:33:59

Highest Channel / 1SC10 / QPSK

N/A



Date: 5.NOV.2024 17:09:01

NTN Band 23 SCS15kHz																																																		
Lowest Channel / 3SC0 / QPSK	N/A																																																	
<p>Spectrum Ref Level 25.00 dBm Offset 14.50 dB Mode Auto FFT 10m Max 10.43 dBm 2.00004890 GHz CF 2.0001 GHz 691 pts Span 3.0 MHz Spectrum Emission Mask Standard: None Tx Power --- Tx Bandwidth 3.840 MHz RBW 5.000 kHz</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>Power Rel</th> <th>ΔLimit</th> </tr> </thead> <tbody> <tr> <td>-1.500 MHz</td> <td>-500.000 kHz</td> <td>5.000 kHz</td> <td>1.99950 GHz</td> <td>-45.41 dBm</td> <td>-45.41 dB</td> <td>-30.41 dB</td> </tr> <tr> <td>-500.000 kHz</td> <td>-200.000 kHz</td> <td>5.000 kHz</td> <td>1.99990 GHz</td> <td>-31.32 dBm</td> <td>-31.32 dB</td> <td>-20.12 dB</td> </tr> <tr> <td>-200.000 kHz</td> <td>-100.000 kHz</td> <td>5.000 kHz</td> <td>2.00000 GHz</td> <td>-6.48 dBm</td> <td>-6.48 dB</td> <td>-6.28 dB</td> </tr> <tr> <td>100.000 kHz</td> <td>200.000 kHz</td> <td>5.000 kHz</td> <td>2.00021 GHz</td> <td>-27.30 dBm</td> <td>-27.30 dB</td> <td>-26.10 dB</td> </tr> <tr> <td>200.000 kHz</td> <td>500.000 kHz</td> <td>5.000 kHz</td> <td>2.00030 GHz</td> <td>-39.15 dBm</td> <td>-39.15 dB</td> <td>-27.95 dB</td> </tr> <tr> <td>500.000 kHz</td> <td>1.500 MHz</td> <td>5.000 kHz</td> <td>2.00060 GHz</td> <td>-46.66 dBm</td> <td>-46.66 dB</td> <td>-31.66 dB</td> </tr> </tbody> </table>		Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit	-1.500 MHz	-500.000 kHz	5.000 kHz	1.99950 GHz	-45.41 dBm	-45.41 dB	-30.41 dB	-500.000 kHz	-200.000 kHz	5.000 kHz	1.99990 GHz	-31.32 dBm	-31.32 dB	-20.12 dB	-200.000 kHz	-100.000 kHz	5.000 kHz	2.00000 GHz	-6.48 dBm	-6.48 dB	-6.28 dB	100.000 kHz	200.000 kHz	5.000 kHz	2.00021 GHz	-27.30 dBm	-27.30 dB	-26.10 dB	200.000 kHz	500.000 kHz	5.000 kHz	2.00030 GHz	-39.15 dBm	-39.15 dB	-27.95 dB	500.000 kHz	1.500 MHz	5.000 kHz	2.00060 GHz	-46.66 dBm	-46.66 dB	-31.66 dB
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Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit																																												
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100.000 kHz	200.000 kHz	5.000 kHz	2.02001 GHz	-24.77 dBm	-24.77 dB	-22.87 dB																																												
200.000 kHz	500.000 kHz	5.000 kHz	2.02010 GHz	-35.69 dBm	-35.69 dB	-23.79 dB																																												
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NTN Band 23 SCS15kHz																																																		
Lowest Channel / 3SC9 / QPSK	N/A																																																	
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