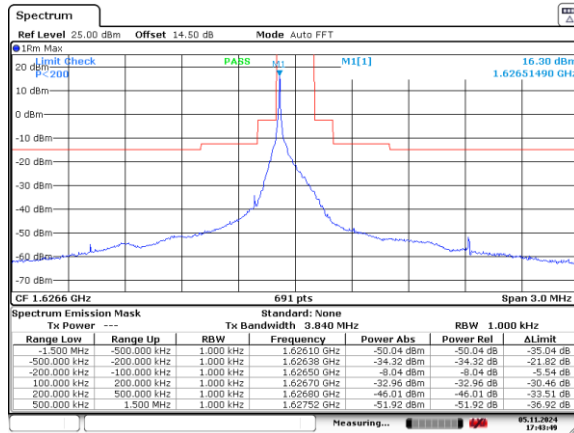


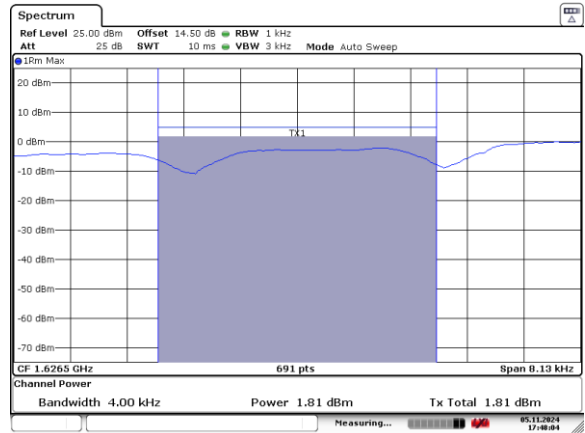
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#### Lowest Channel / 1SC1 / BPSK



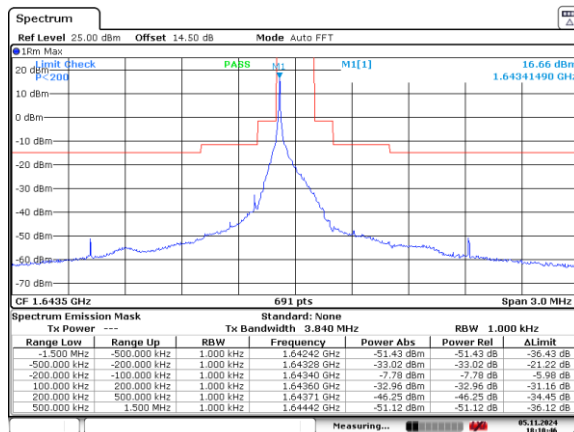
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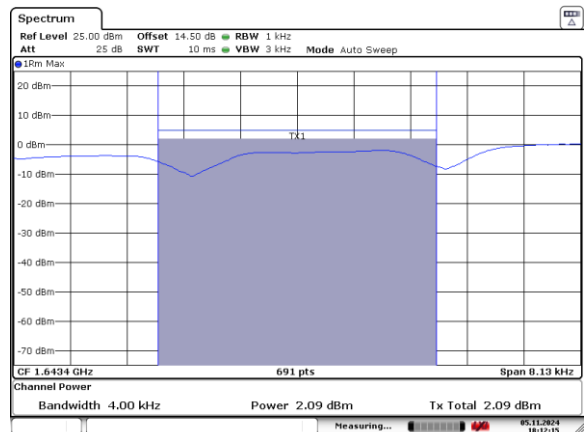
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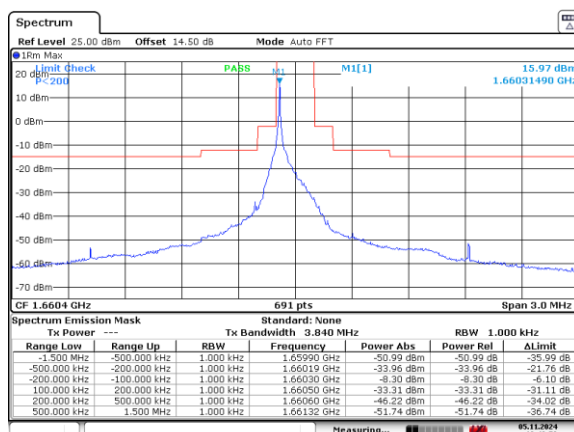
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#### Middle Channel / 1SC1 / BPSK-CP



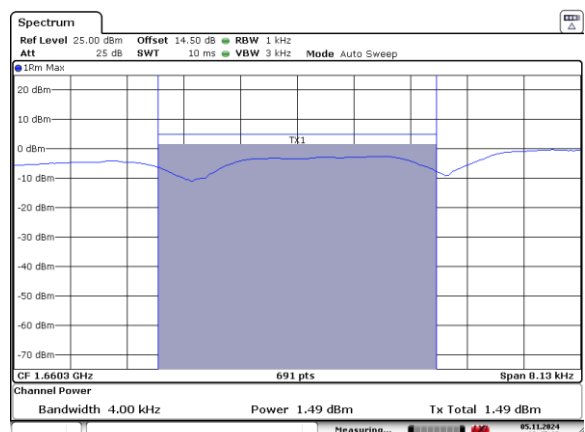
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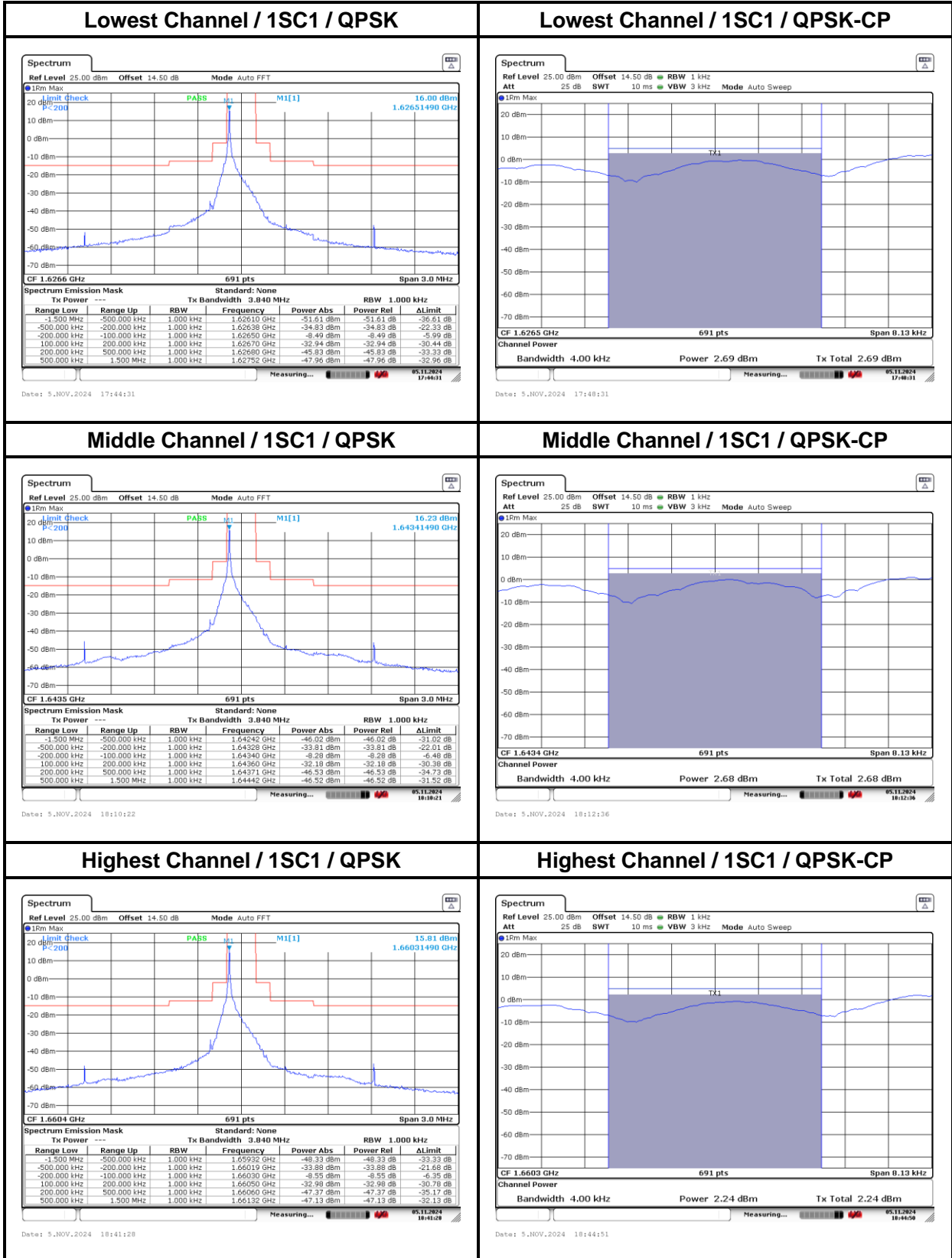
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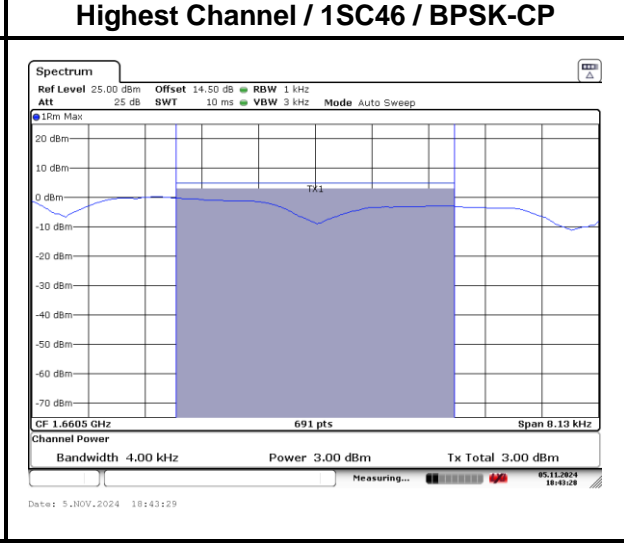
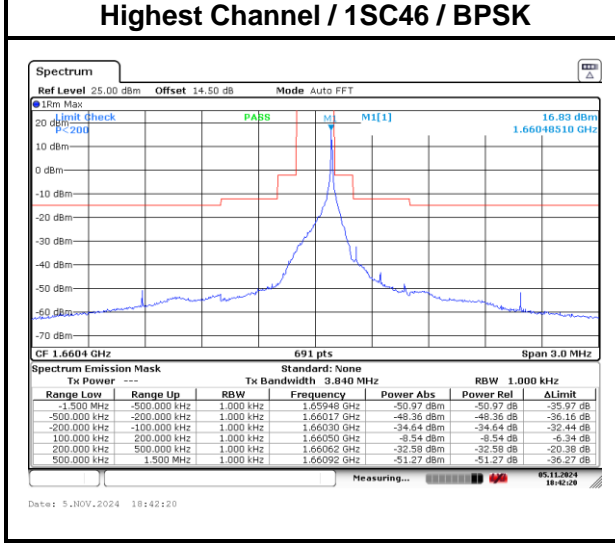
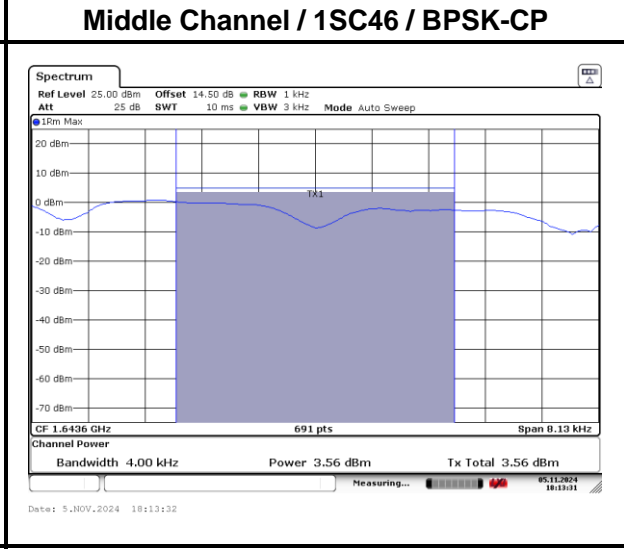
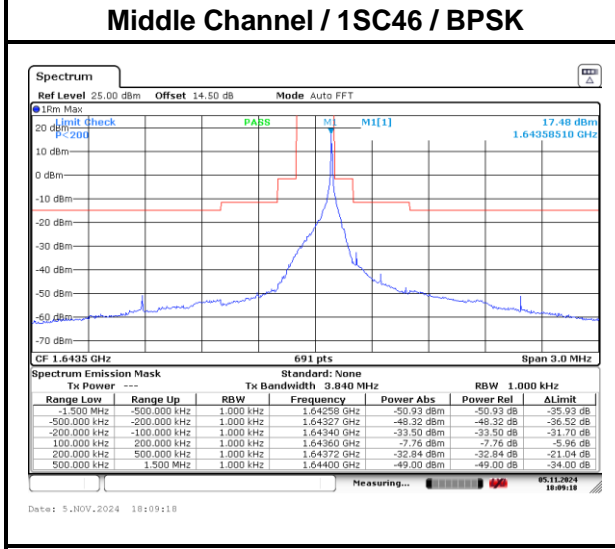
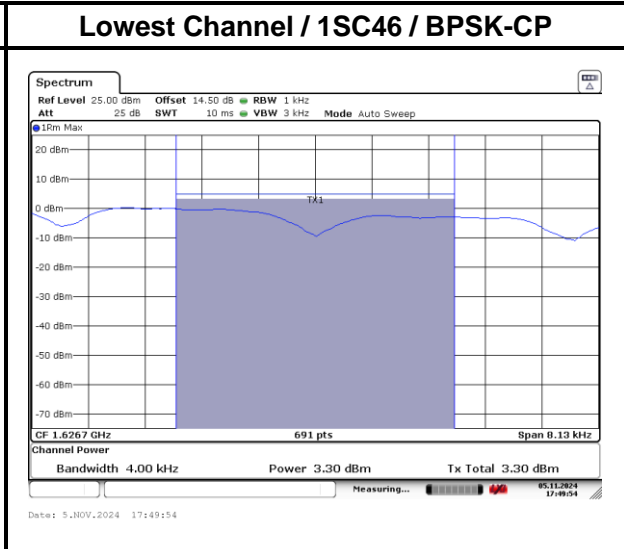
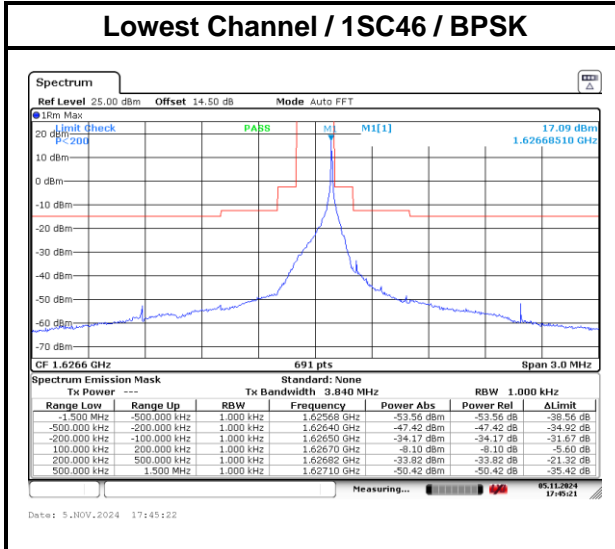


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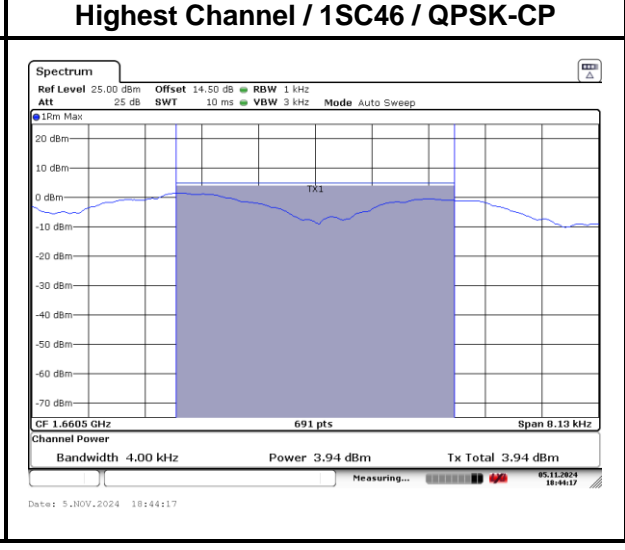
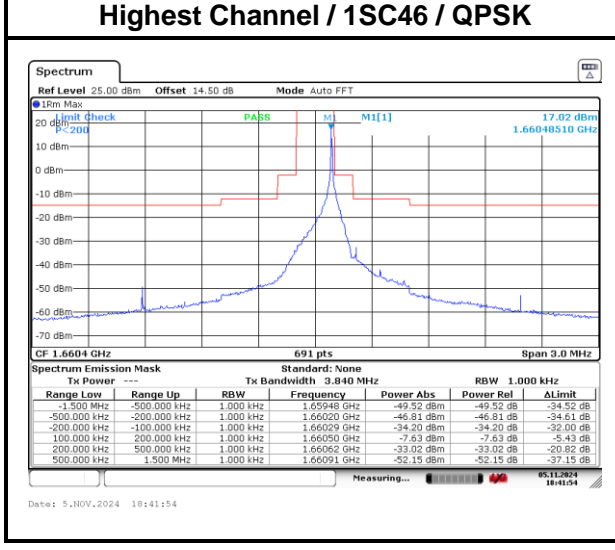
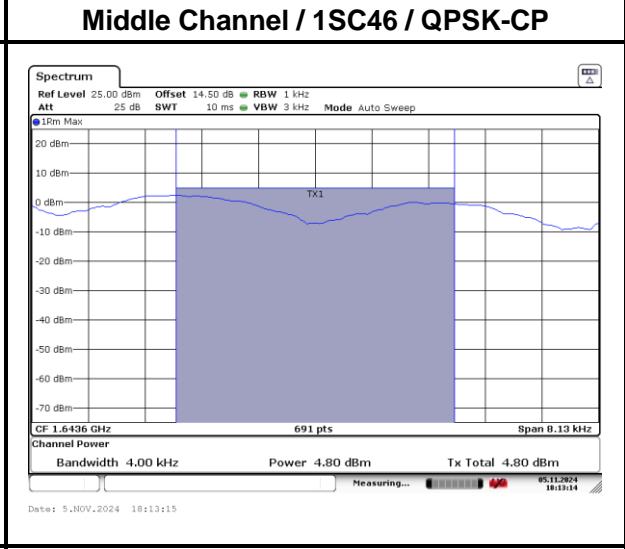
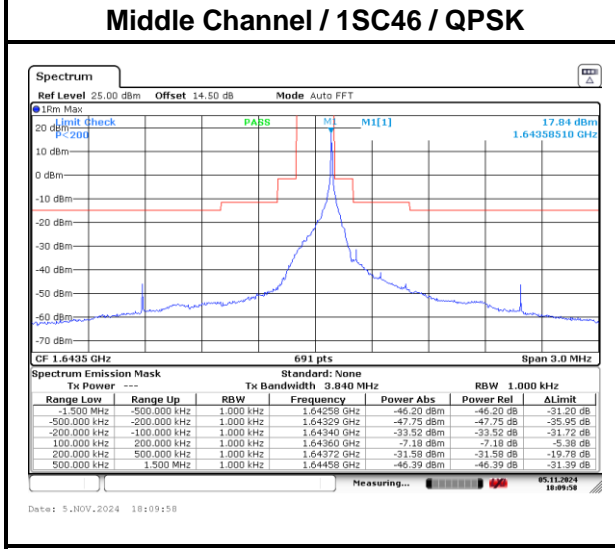
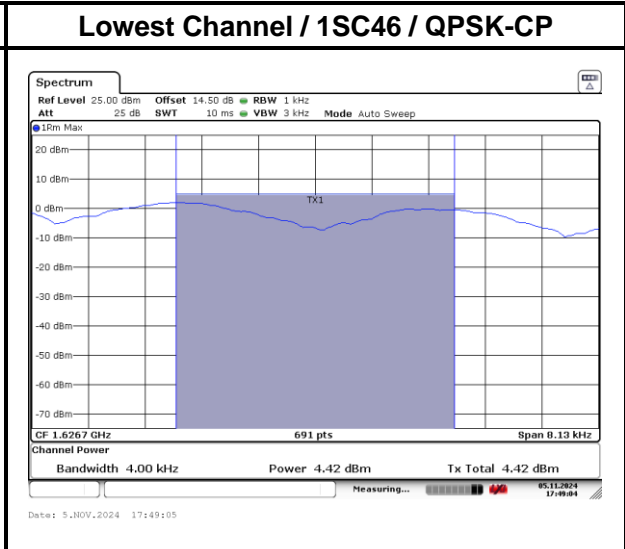
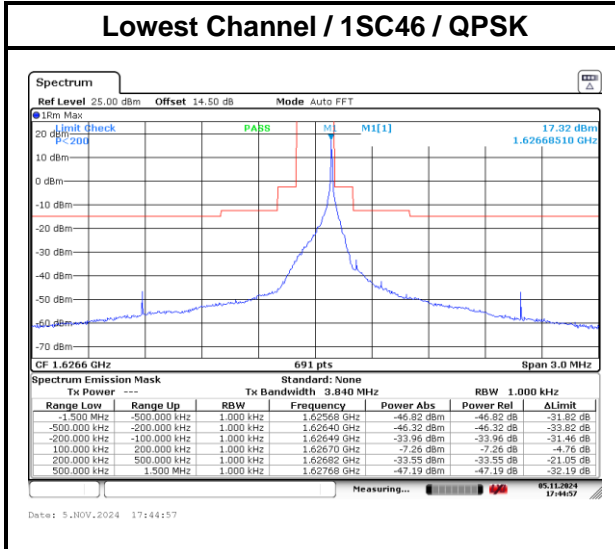
### NTN Band 255 SCS3.75kHz



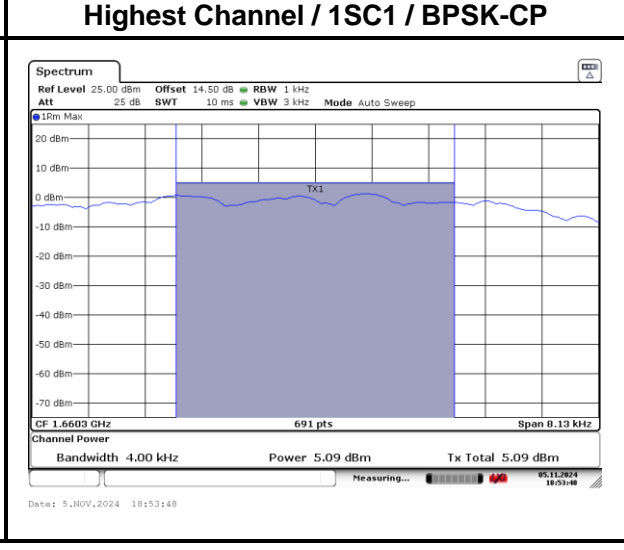
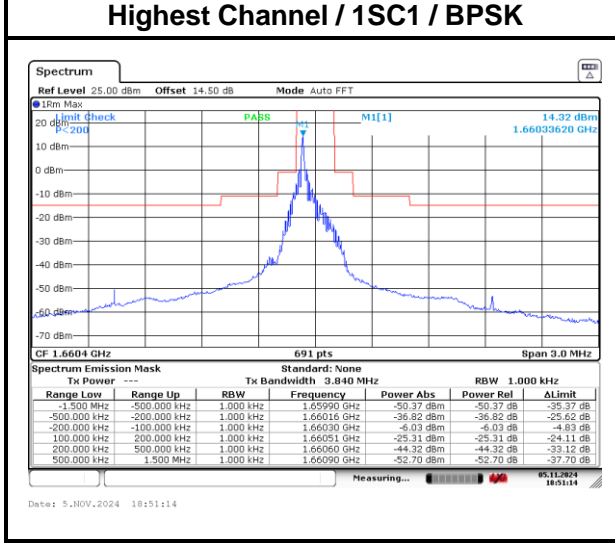
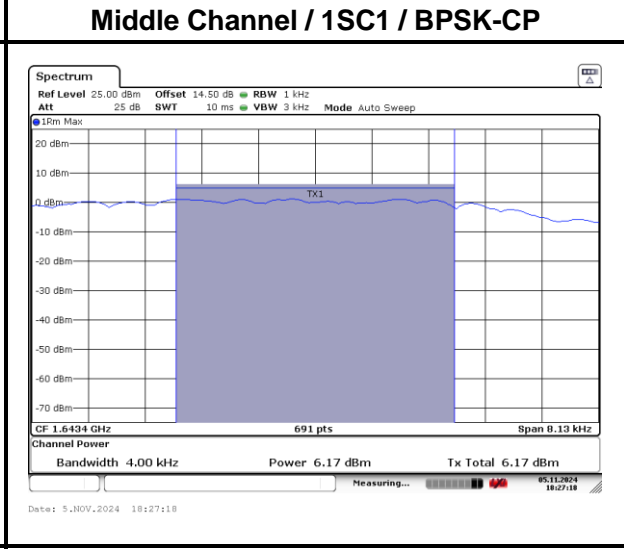
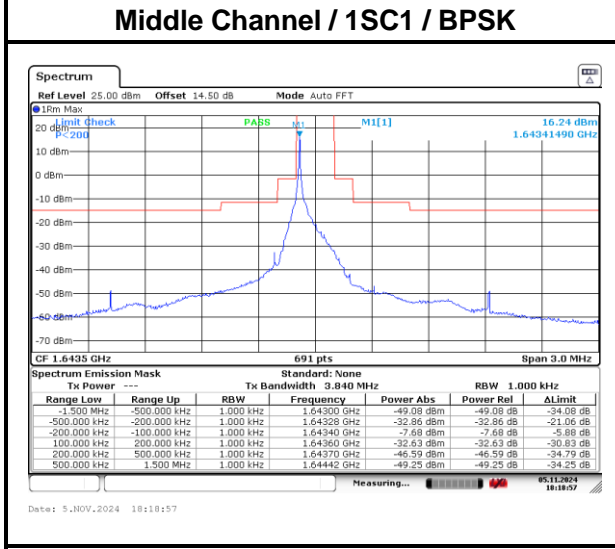
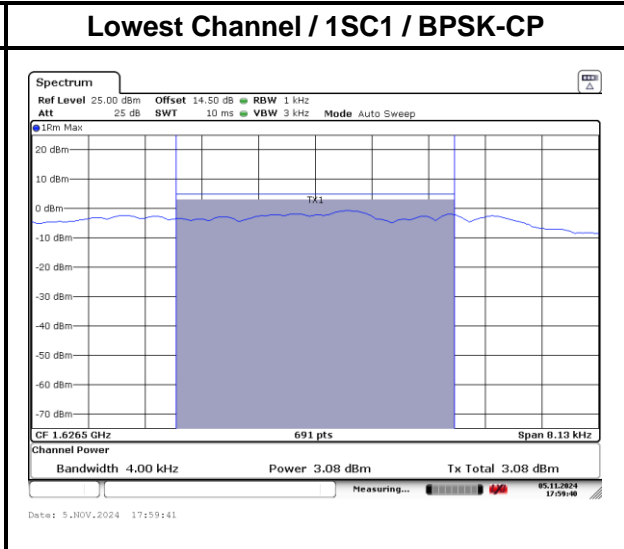
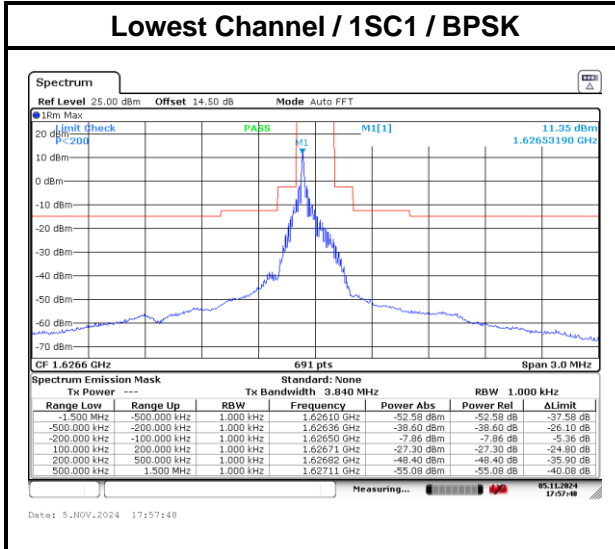
NTN Band 255 SCS3.75kHz



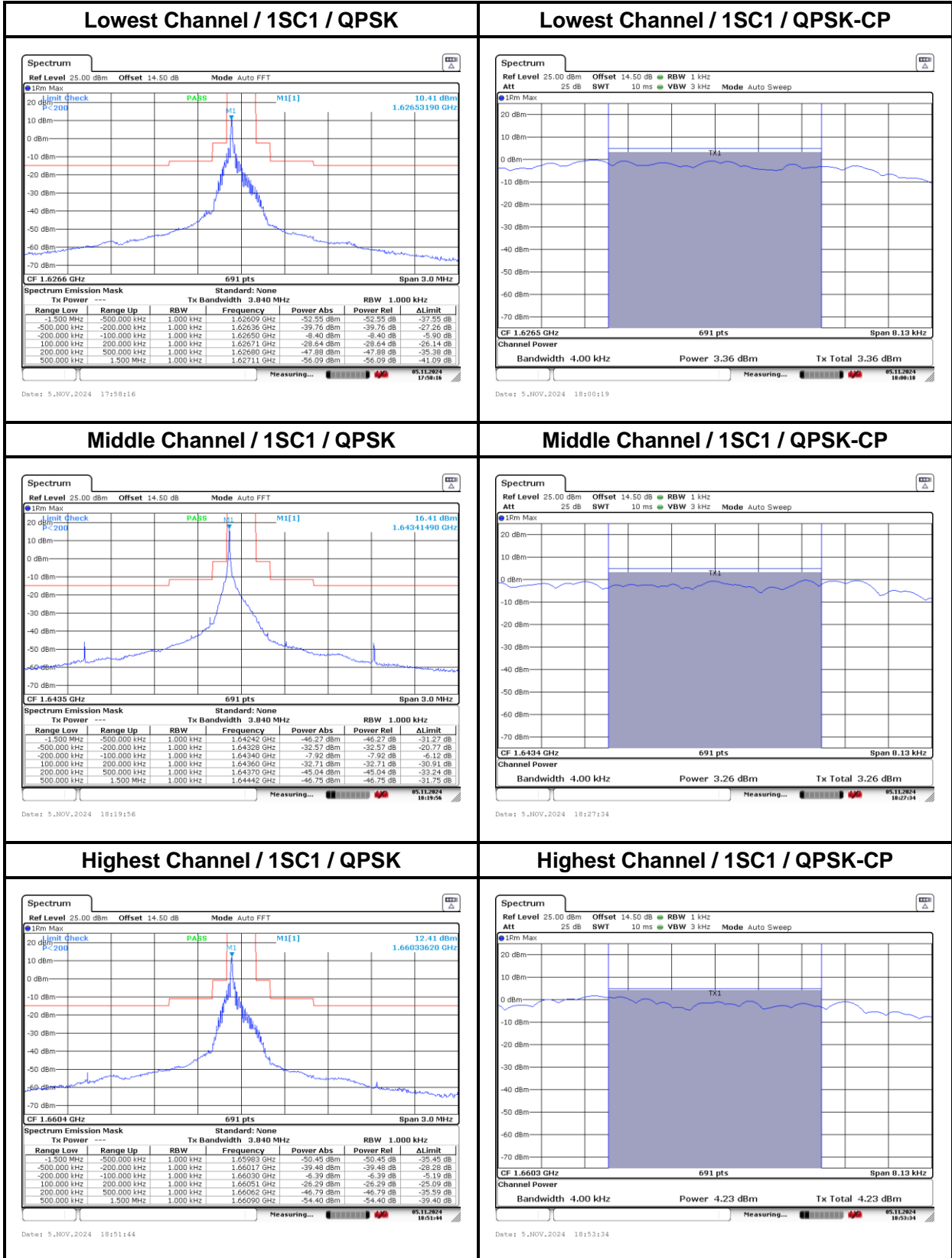
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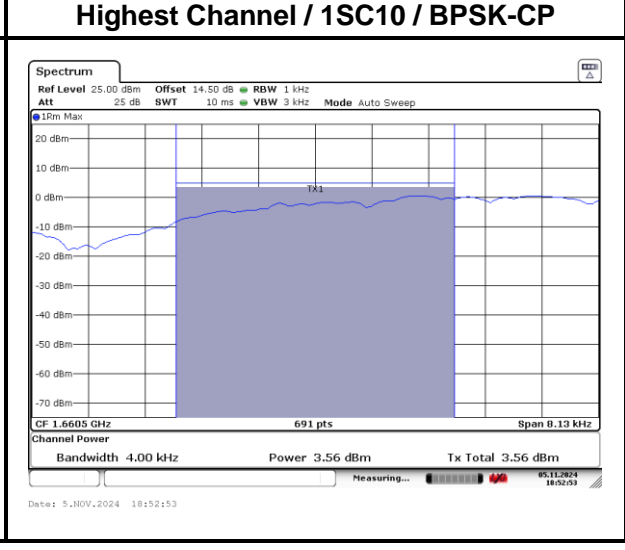
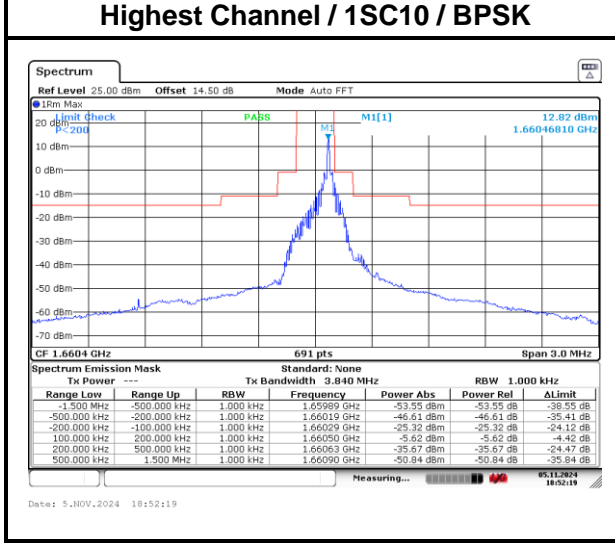
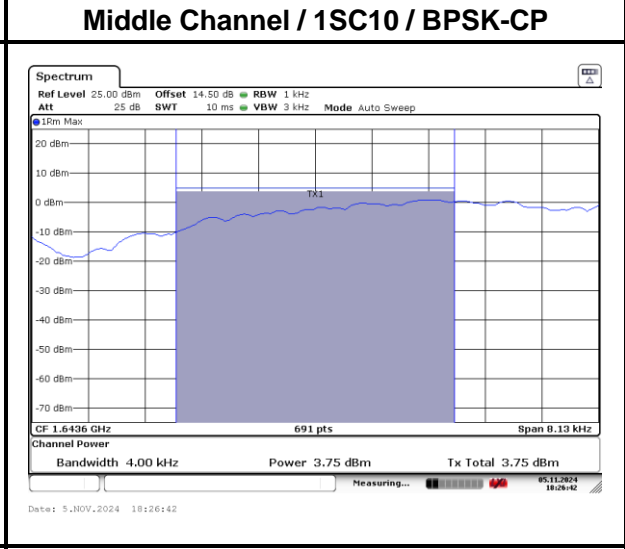
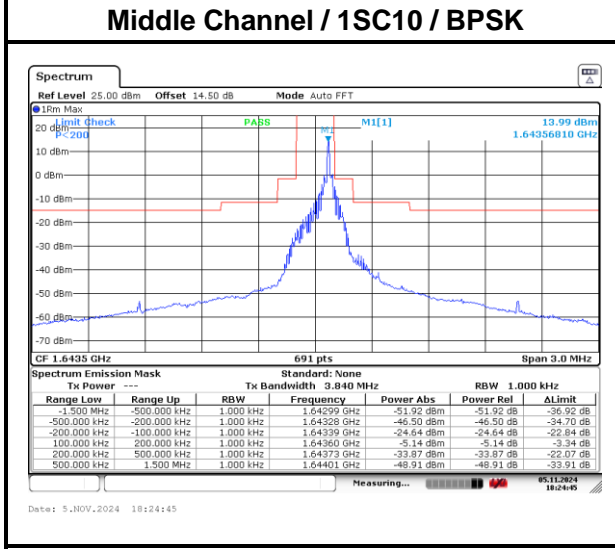
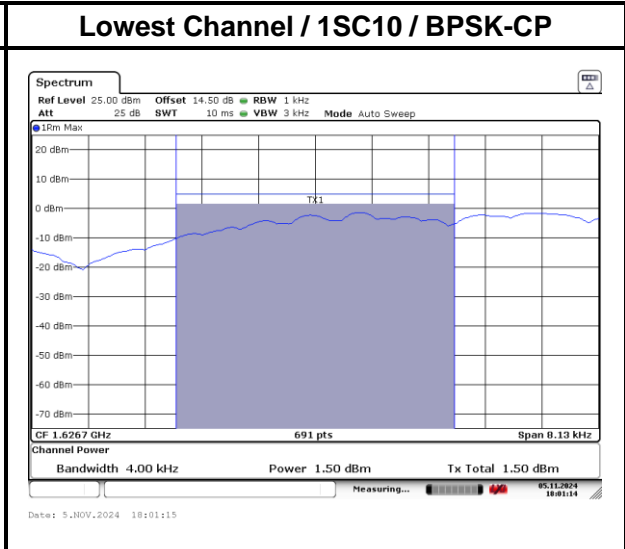
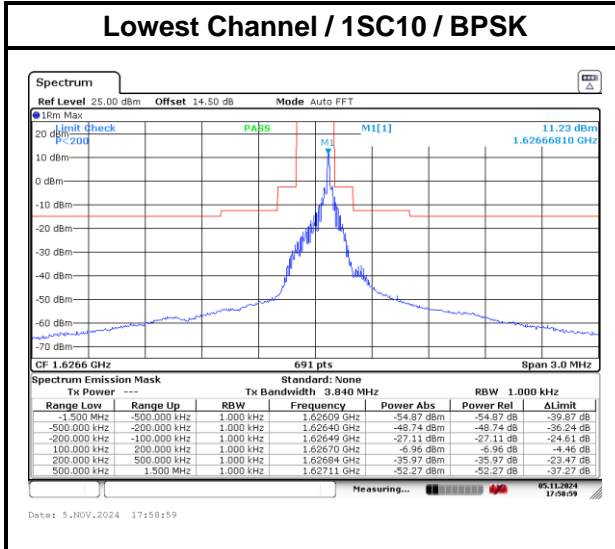
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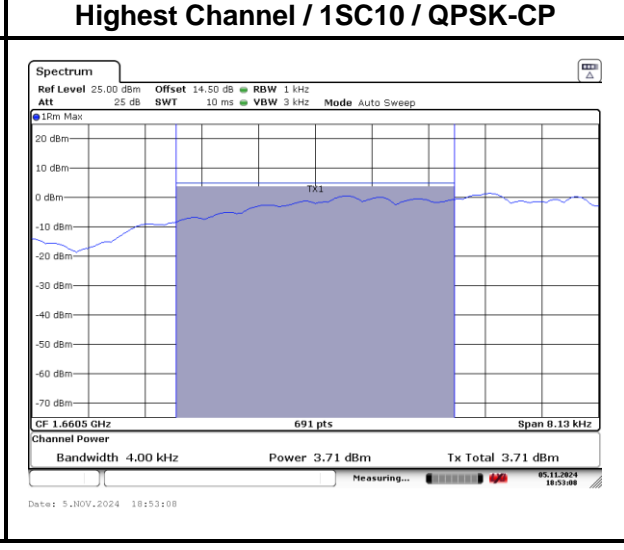
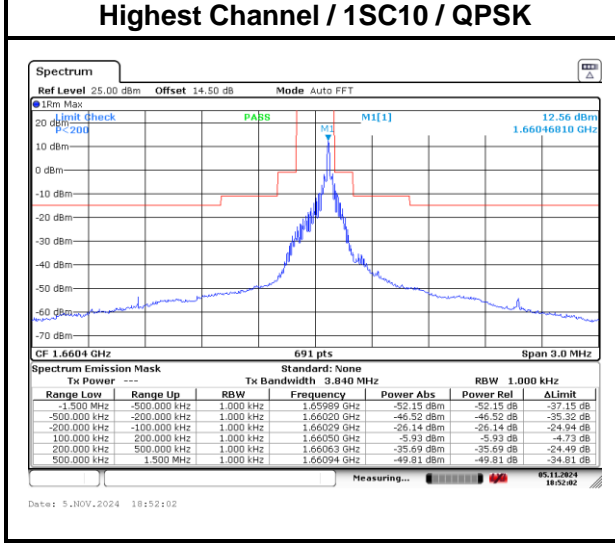
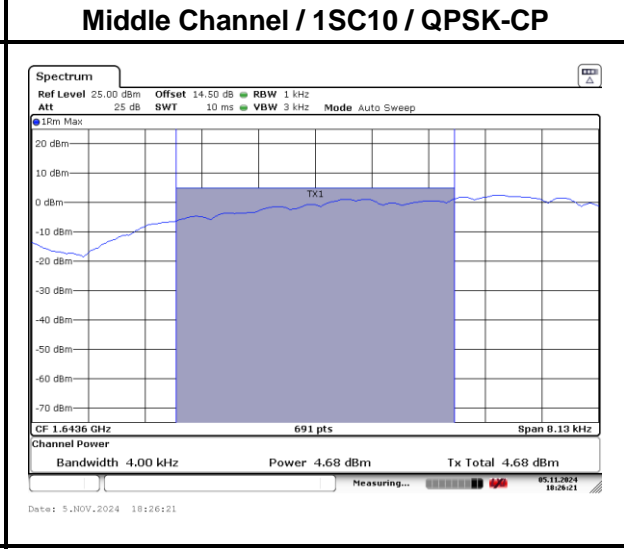
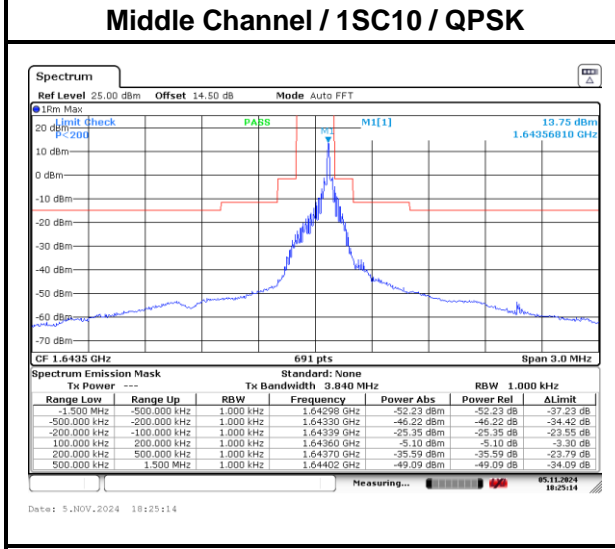
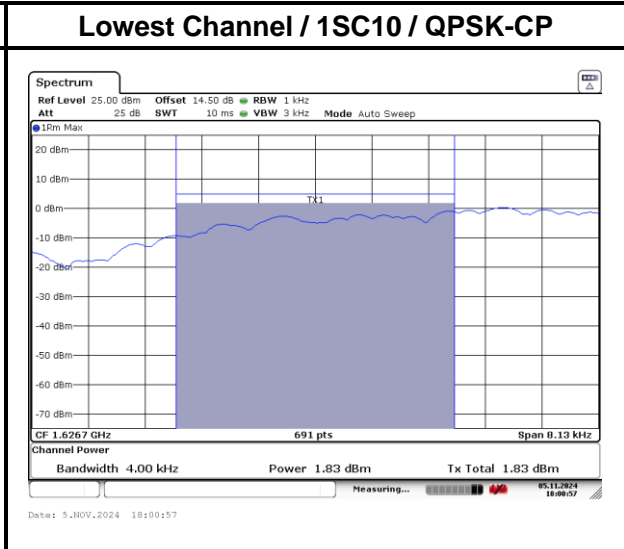
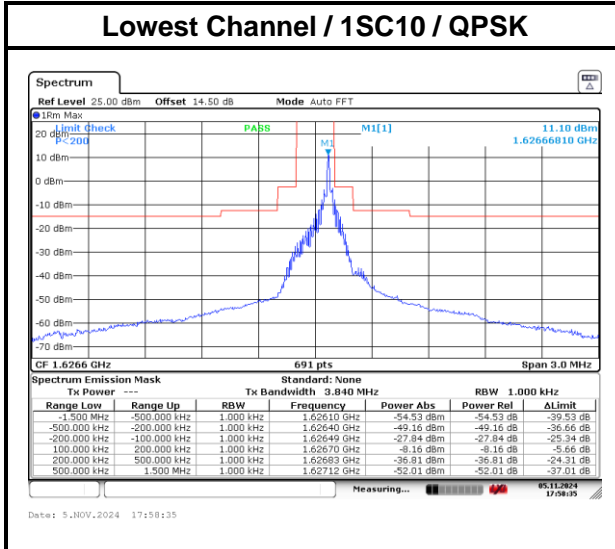
## NTN Band 255 SCS15kHz



**NTN Band 255 SCS15kHz**



## NTN Band 255 SCS15kHz



## NTN Band 255 SCS15kHz



Lowest Channel / 3SC0 / QPSK	N/A																																																	
<p><b>Spectrum Emission Mask</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>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>1,62610 GHz</td> <td>-44.50 dBm</td> <td>-44.50 dB</td> <td>-29.50 dB</td> </tr> <tr> <td>-500,000 kHz</td> <td>-200,000 kHz</td> <td>5,000 kHz</td> <td>1,62640 GHz</td> <td>-32.57 dBm</td> <td>-32.57 dB</td> <td>-19.87 dB</td> </tr> <tr> <td>-200,000 kHz</td> <td>-100,000 kHz</td> <td>5,000 kHz</td> <td>1,62650 GHz</td> <td>-4.98 dBm</td> <td>-4.98 dB</td> <td>-2.48 dB</td> </tr> <tr> <td>100,000 kHz</td> <td>200,000 kHz</td> <td>5,000 kHz</td> <td>1,62671 GHz</td> <td>-25.64 dBm</td> <td>-25.64 dB</td> <td>-23.14 dB</td> </tr> <tr> <td>200,000 kHz</td> <td>500,000 kHz</td> <td>5,000 kHz</td> <td>1,62681 GHz</td> <td>-39.12 dBm</td> <td>-39.12 dB</td> <td>-26.62 dB</td> </tr> <tr> <td>500,000 kHz</td> <td>1,500 MHz</td> <td>5,000 kHz</td> <td>1,62710 GHz</td> <td>-46.39 dBm</td> <td>-46.39 dB</td> <td>-31.39 dB</td> </tr> </tbody> </table> <p>Date: 5_NOV_2024 18:02:35</p>	Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit	-1,500 MHz	-500,000 kHz	5,000 kHz	1,62610 GHz	-44.50 dBm	-44.50 dB	-29.50 dB	-500,000 kHz	-200,000 kHz	5,000 kHz	1,62640 GHz	-32.57 dBm	-32.57 dB	-19.87 dB	-200,000 kHz	-100,000 kHz	5,000 kHz	1,62650 GHz	-4.98 dBm	-4.98 dB	-2.48 dB	100,000 kHz	200,000 kHz	5,000 kHz	1,62671 GHz	-25.64 dBm	-25.64 dB	-23.14 dB	200,000 kHz	500,000 kHz	5,000 kHz	1,62681 GHz	-39.12 dBm	-39.12 dB	-26.62 dB	500,000 kHz	1,500 MHz	5,000 kHz	1,62710 GHz	-46.39 dBm	-46.39 dB	-31.39 dB	
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**NTN Band 255 SCS15kHz**

Lowest Channel / 3SC9 / QPSK	N/A																																																	
<p><b>Spectrum</b> Ref Level 25.00 dBm Offset 14.50 dB Mode Auto FFT</p> <p>CF 1.6266 GHz 691 pts Span 3.0 MHz</p> <p>Spectrum Emission Mask Standard: None 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>1.62610 GHz</td> <td>-47.29 dBm</td> <td>-47.29 dB</td> <td>-32.28 dB</td> </tr> <tr> <td>-500.000 kHz</td> <td>-200.000 kHz</td> <td>5.000 kHz</td> <td>1.62640 GHz</td> <td>-40.74 dBm</td> <td>-40.74 dB</td> <td>-29.24 dB</td> </tr> <tr> <td>-200.000 kHz</td> <td>-100.000 kHz</td> <td>5.000 kHz</td> <td>1.62649 GHz</td> <td>-26.26 dBm</td> <td>-26.26 dB</td> <td>-23.76 dB</td> </tr> <tr> <td>100.000 kHz</td> <td>200.000 kHz</td> <td>5.000 kHz</td> <td>1.62670 GHz</td> <td>-4.65 dBm</td> <td>-4.65 dB</td> <td>-2.15 dB</td> </tr> <tr> <td>200.000 kHz</td> <td>500.000 kHz</td> <td>5.000 kHz</td> <td>1.62680 GHz</td> <td>-31.92 dBm</td> <td>-31.92 dB</td> <td>-19.45 dB</td> </tr> <tr> <td>500.000 kHz</td> <td>1.500 MHz</td> <td>5.000 kHz</td> <td>1.62711 GHz</td> <td>-44.52 dBm</td> <td>-44.52 dB</td> <td>-29.52 dB</td> </tr> </tbody> </table> <p>Date: 5_NOV_2024 18:03:00</p>	Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	Δlimit	-1.500 MHz	-500.000 kHz	5.000 kHz	1.62610 GHz	-47.29 dBm	-47.29 dB	-32.28 dB	-500.000 kHz	-200.000 kHz	5.000 kHz	1.62640 GHz	-40.74 dBm	-40.74 dB	-29.24 dB	-200.000 kHz	-100.000 kHz	5.000 kHz	1.62649 GHz	-26.26 dBm	-26.26 dB	-23.76 dB	100.000 kHz	200.000 kHz	5.000 kHz	1.62670 GHz	-4.65 dBm	-4.65 dB	-2.15 dB	200.000 kHz	500.000 kHz	5.000 kHz	1.62680 GHz	-31.92 dBm	-31.92 dB	-19.45 dB	500.000 kHz	1.500 MHz	5.000 kHz	1.62711 GHz	-44.52 dBm	-44.52 dB	-29.52 dB	
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NTN Band 255 SCS15kHz

Lowest Channel / 6SC0 / QPSK	N/A																																																	
<p><b>Spectrum</b>          Ref Level 25.00 dBm Offset 14.50 dB Mode Auto FFT          1.6266 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>1.62610 GHz</td> <td>-43.32 dBm</td> <td>-43.32 dB</td> <td>-28.32 dB</td> </tr> <tr> <td>-500.000 kHz</td> <td>-200.000 kHz</td> <td>5.000 kHz</td> <td>1.62640 GHz</td> <td>-32.99 dBm</td> <td>-32.99 dB</td> <td>-19.99 dB</td> </tr> <tr> <td>-200.000 kHz</td> <td>-100.000 kHz</td> <td>5.000 kHz</td> <td>1.62650 GHz</td> <td>-9.47 dBm</td> <td>-9.47 dB</td> <td>-6.47 dB</td> </tr> <tr> <td>100.000 kHz</td> <td>200.000 kHz</td> <td>5.000 kHz</td> <td>1.62670 GHz</td> <td>-23.24 dBm</td> <td>-23.24 dB</td> <td>-20.24 dB</td> </tr> <tr> <td>200.000 kHz</td> <td>500.000 kHz</td> <td>5.000 kHz</td> <td>1.62680 GHz</td> <td>-36.98 dBm</td> <td>-36.98 dB</td> <td>-23.98 dB</td> </tr> <tr> <td>500.000 kHz</td> <td>1.500 MHz</td> <td>5.000 kHz</td> <td>1.62710 GHz</td> <td>-45.57 dBm</td> <td>-45.57 dB</td> <td>-30.57 dB</td> </tr> </tbody> </table> <p>Date: 5_NOV_2024 18:04:18</p>	Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit	-1.500 MHz	-500.000 kHz	5.000 kHz	1.62610 GHz	-43.32 dBm	-43.32 dB	-28.32 dB	-500.000 kHz	-200.000 kHz	5.000 kHz	1.62640 GHz	-32.99 dBm	-32.99 dB	-19.99 dB	-200.000 kHz	-100.000 kHz	5.000 kHz	1.62650 GHz	-9.47 dBm	-9.47 dB	-6.47 dB	100.000 kHz	200.000 kHz	5.000 kHz	1.62670 GHz	-23.24 dBm	-23.24 dB	-20.24 dB	200.000 kHz	500.000 kHz	5.000 kHz	1.62680 GHz	-36.98 dBm	-36.98 dB	-23.98 dB	500.000 kHz	1.500 MHz	5.000 kHz	1.62710 GHz	-45.57 dBm	-45.57 dB	-30.57 dB	
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Note: Expanded measurement uncertainty is  $\pm 1\text{dB}$ ,  $k = 2$

## **A.5 Conducted Spurious Emission**

### **A.5.1 Measurement Method**

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. In measuring unwanted emissions, the spectrum shall be investigated from 30 MHz or the lowest radio frequency signal generated in the equipment, whichever is lower, without going below 9 kHz, up to at least the frequency given below:
  - (a) If the equipment operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
  - (b) If the equipment operates at or above 10 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.
3. The number of sweep points of spectrum analyzer is greater than  $2 \times \text{span/RBW}$ .

### **A. 5.2 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: 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;

Part 25.216(c) specifies the e.i.r.p. density of emissions from mobile earth stations placed in service after July 21, 2002 with assigned uplink frequencies between 1610 MHz and 1660.5 MHz shall not exceed  $-70\text{dBW/MHz}$ , averaged over any 2 millisecond active transmission interval, in the band 1559-1605 MHz. The e.i.r.p. of discrete emissions of less than 700 Hz bandwidth from such stations shall not exceed  $-80\text{dBW}$ , averaged over any 2 millisecond active transmission interval, in the 1559-1605 MHz band.

Part 25.216(e) specifies the e.i.r.p density of emissions from mobile earth stations with assigned uplink frequencies between 1990 MHz and 2025 MHz shall not exceed  $-70\text{dBW/MHz}$ , averaged over any 2 millisecond active transmission interval, in frequencies between 1559 MHz and 1610 MHz. The e.i.r.p. of discrete emissions of less than 700 Hz bandwidth from such stations between 1559 MHz and 1605 MHz shall not exceed  $-80\text{dBW}$ , averaged over any 2 millisecond active transmission interval. The e.i.r.p. of discrete emissions of less than 700 Hz bandwidth from such stations between 1605 MHz and 1610 MHz manufactured more

than six months after FEDERAL REGISTER publication of the rule changes adopted in FCC 03-283 shall not exceed  $-80\text{ dBW}$ , averaged over any 2 millisecond active transmission interval.

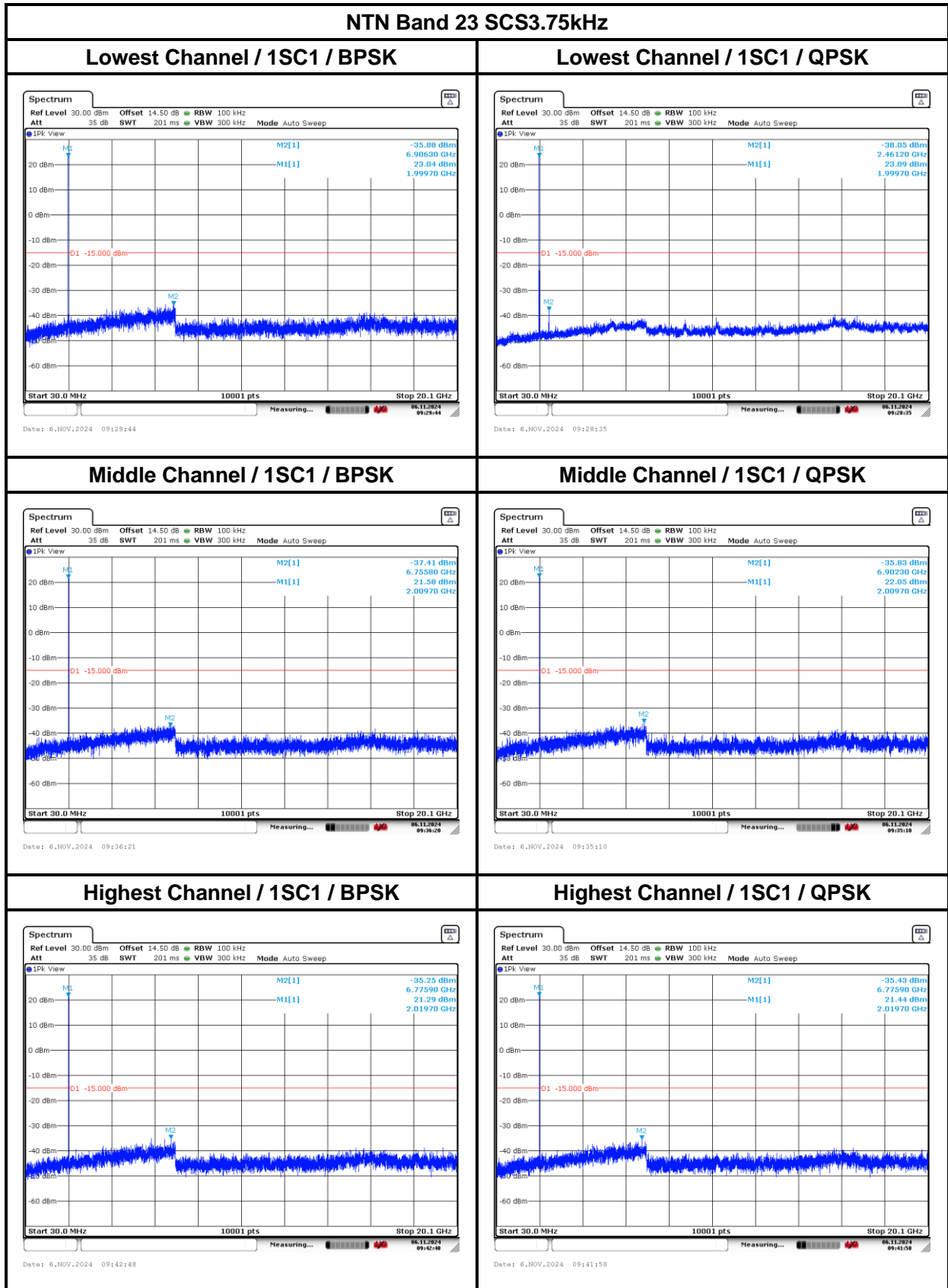
Part 25.216(h) specifies mobile earth stations manufactured more than six months after FEDERAL REGISTER publication of the rule changes adopted in FCC 03-283 with assigned uplink frequencies in the 1626.5-1660.5 MHz band shall suppress the power density of emissions in the 1605-1610 MHz band-segment to an extent determined by linear interpolation from  $-70\text{ dBW/MHz}$  at 1605 MHz to  $-46\text{ dBW/MHz}$  at 1610 MHz, averaged over any 2 millisecond active transmission interval. The e.i.r.p of discrete emissions of less than 700 Hz bandwidth from such stations shall not exceed a level determined by linear interpolation from  $-80\text{ dBW}$  at 1605 MHz to  $-56\text{ dBW}$  at 1610 MHz, averaged over any 2 millisecond active transmission interval.



Part 25.216(i) specifies the e.i.r.p density of carrier-off state emissions from mobile earth stations manufactured more than six months after FEDERAL REGISTER publication of the rule changes adopted in FCC 03-283 with assigned uplink frequencies between 1 and 3 GHz shall not exceed -80 dBW/MHz in the 1559-1610 MHz band averaged over any two millisecond interval.

Part 25.216(j) specifies a Root-Mean-Square detector shall be used for all power density measurements.

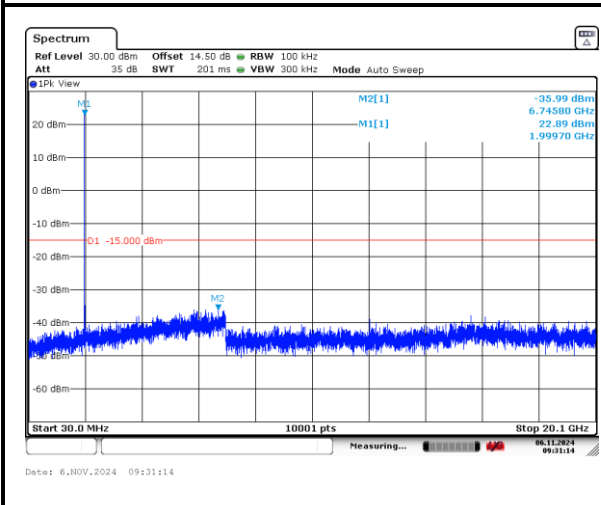
**A5.3 Measurement result**  
**Conducted Spurious Emission**



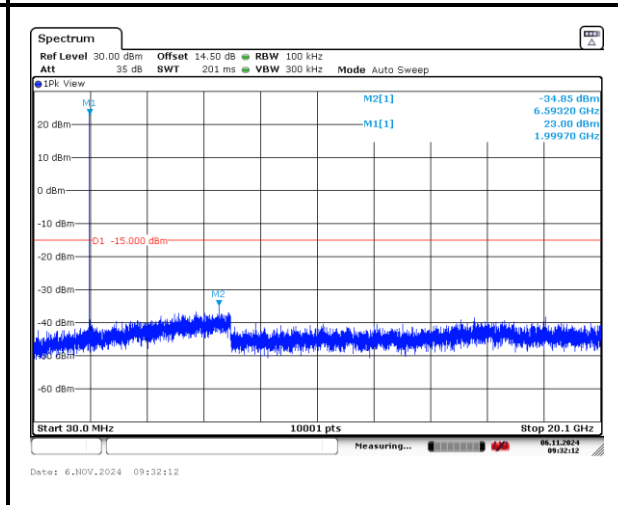


NTN Band 23 SCS15kHz

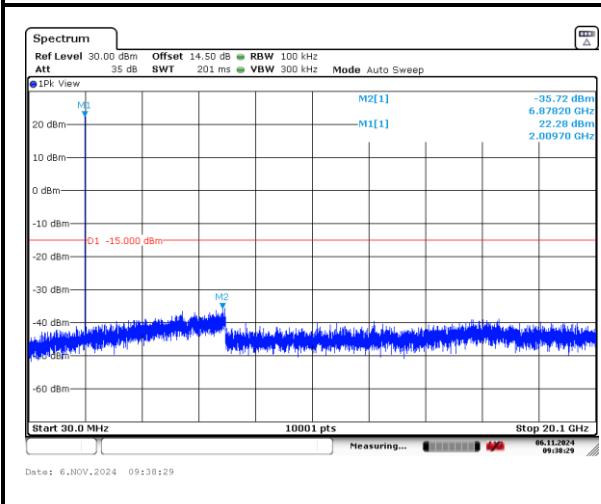
Lowest Channel / 1SC1 / BPSK



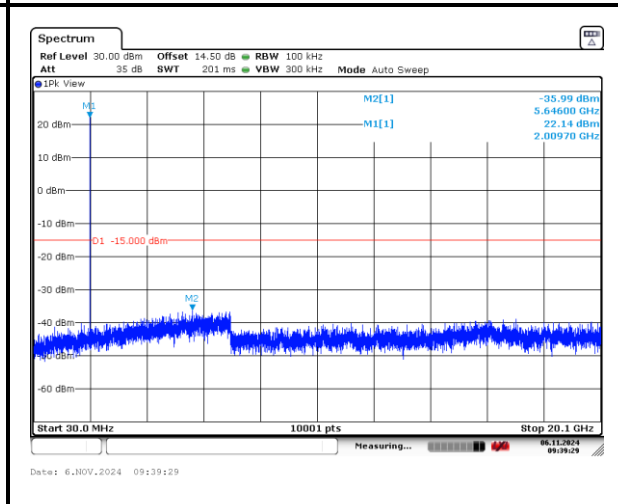
Lowest Channel / 1SC1 / QPSK



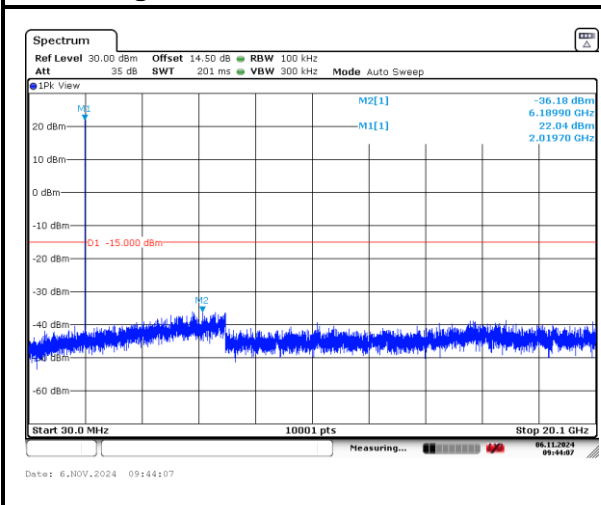
Middle Channel / 1SC1 / BPSK



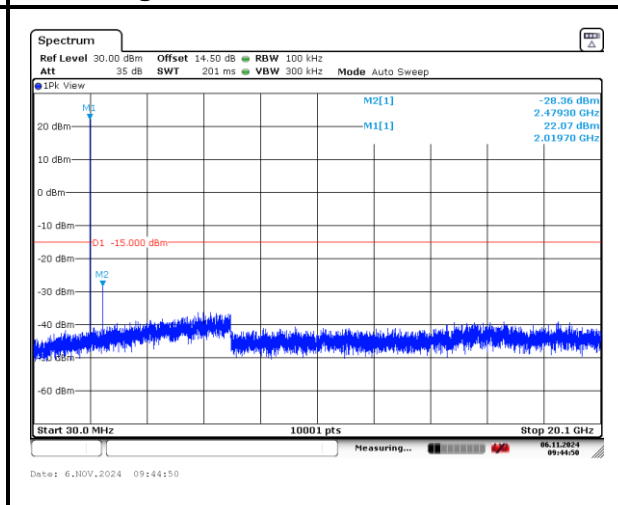
Middle Channel / 1SC1 / QPSK



Highest Channel / 1SC1 / BPSK

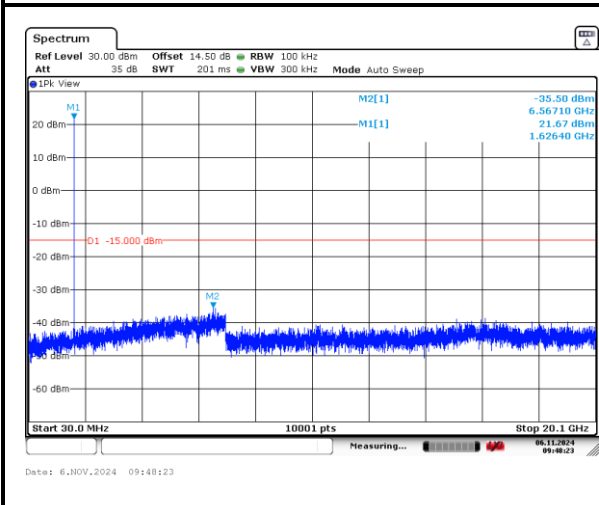


Highest Channel / 1SC1 / QPSK

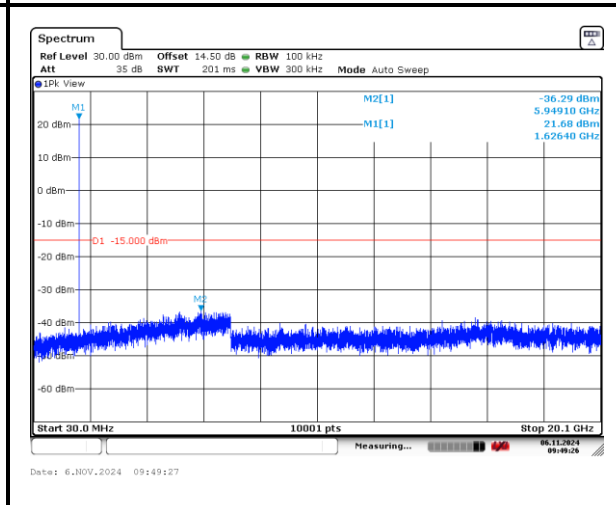


NTN Band 255 SCS3.75kHz

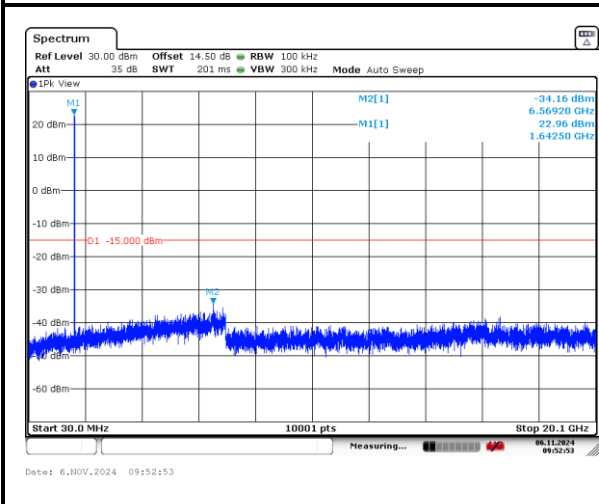
Lowest Channel / 1SC1 / BPSK



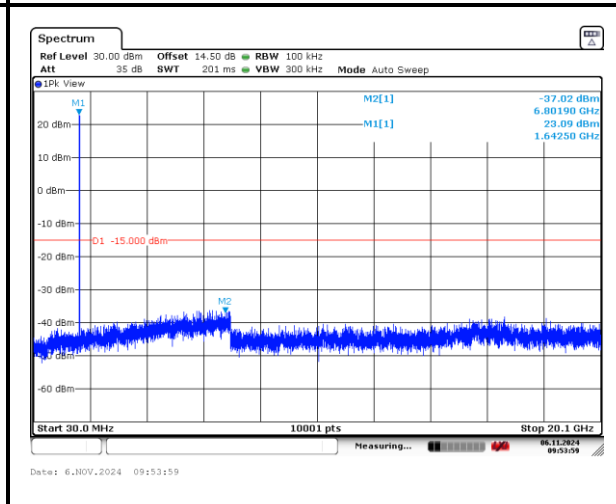
Lowest Channel / 1SC1 / QPSK



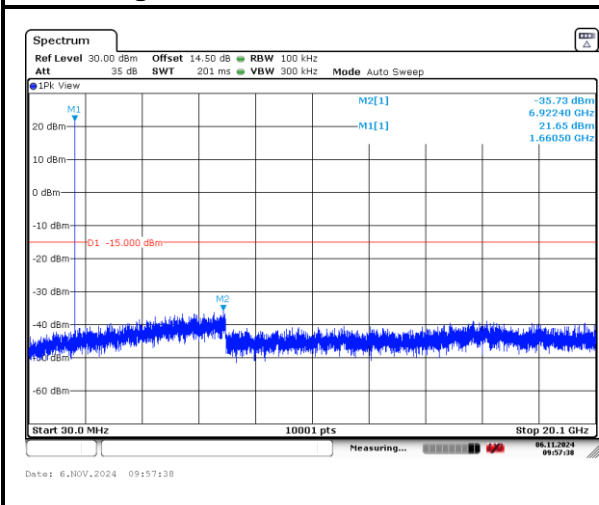
Middle Channel / 1SC1 / BPSK



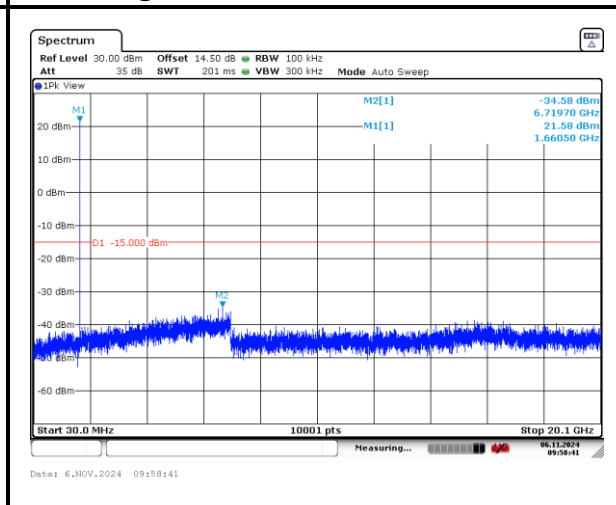
Middle Channel / 1SC1 / QPSK



Highest Channel / 1SC1 / BPSK

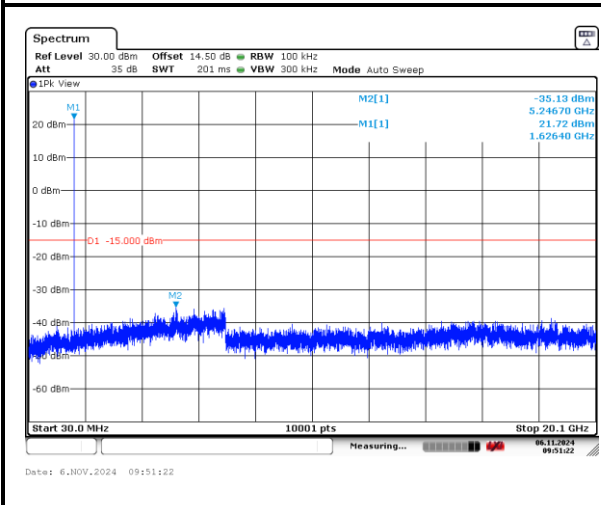


Highest Channel / 1SC1 / QPSK

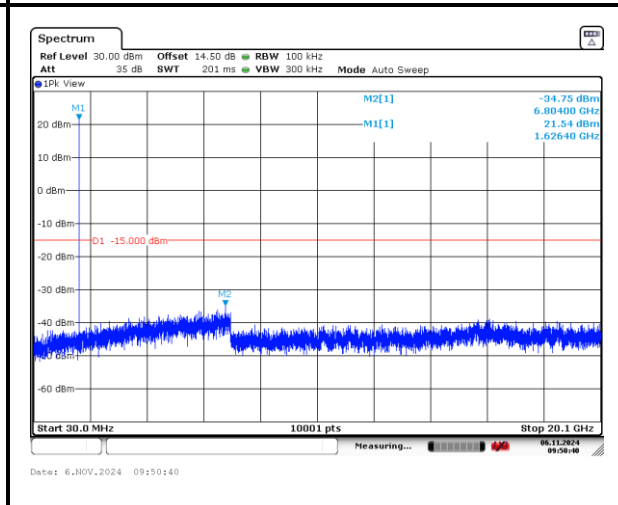


NTN Band 255 SCS15kHz

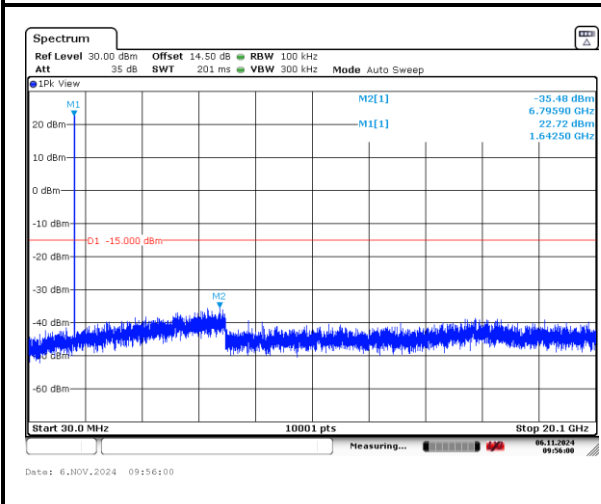
Lowest Channel / 1SC1 / BPSK



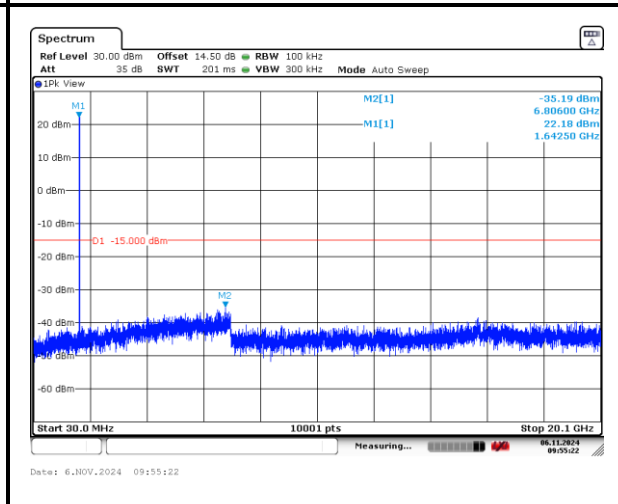
Lowest Channel / 1SC1 / QPSK



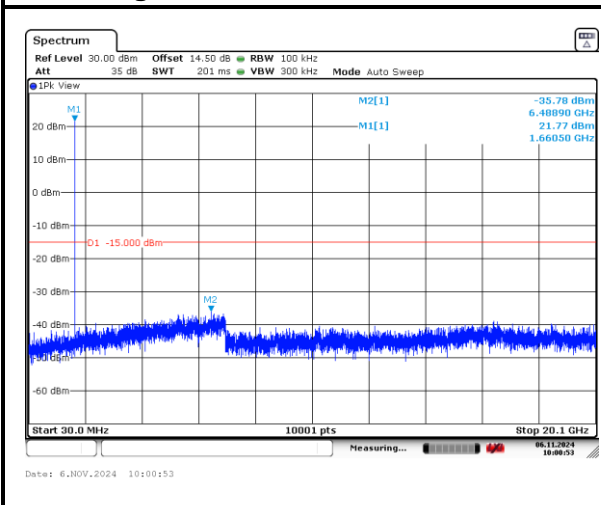
Middle Channel / 1SC1 / BPSK



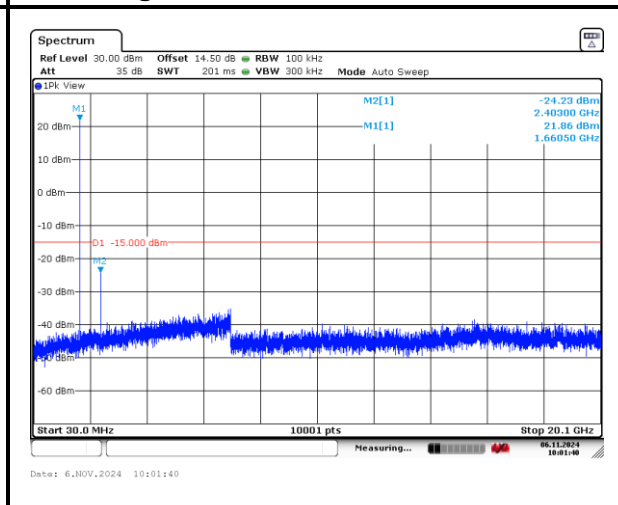
Middle Channel / 1SC1 / QPSK



Highest Channel / 1SC1 / BPSK



Highest Channel / 1SC1 / QPSK

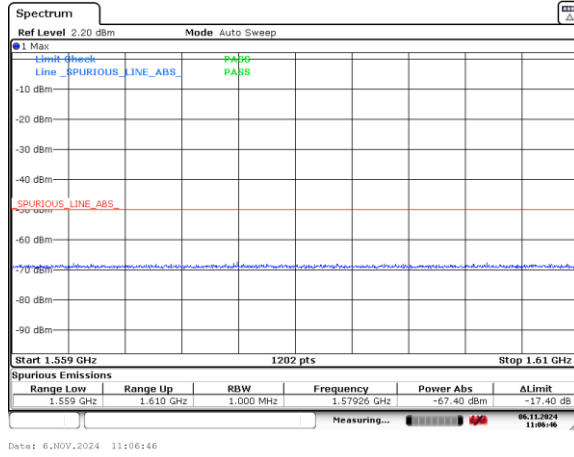


Emission Limits

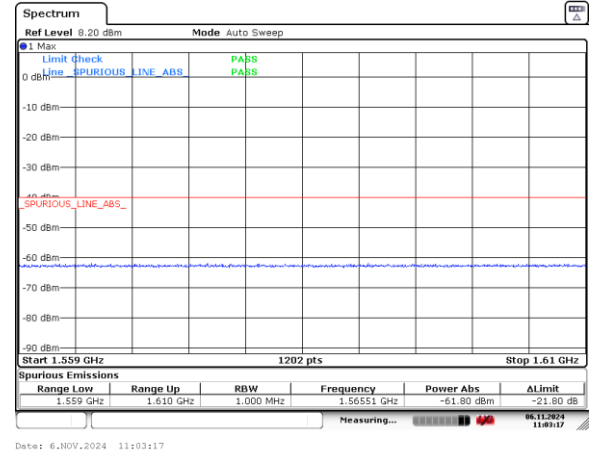
NTN Band 23 SCS3.75kHz

BPSK

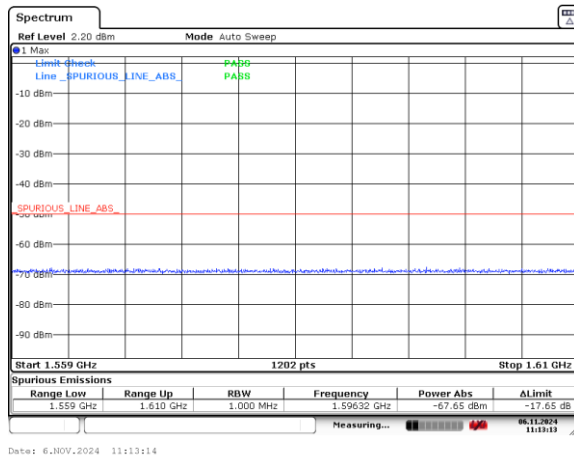
Lowest Channel / 1SC1 / Carrier off



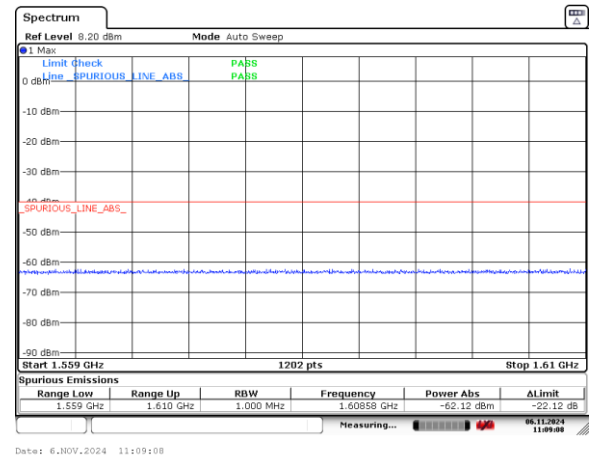
Lowest Channel / 1SC1 / Carrier on



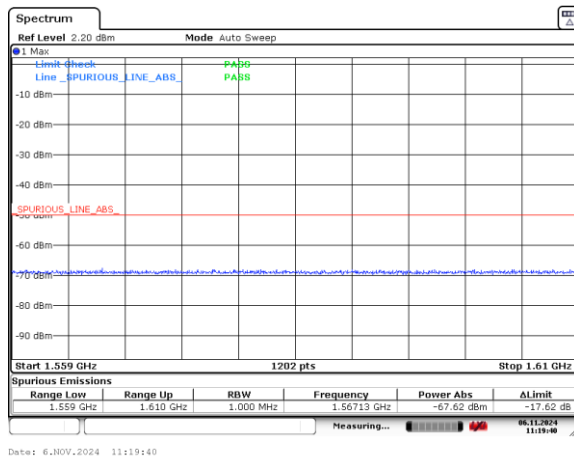
Middle Channel / 1SC1 / Carrier off



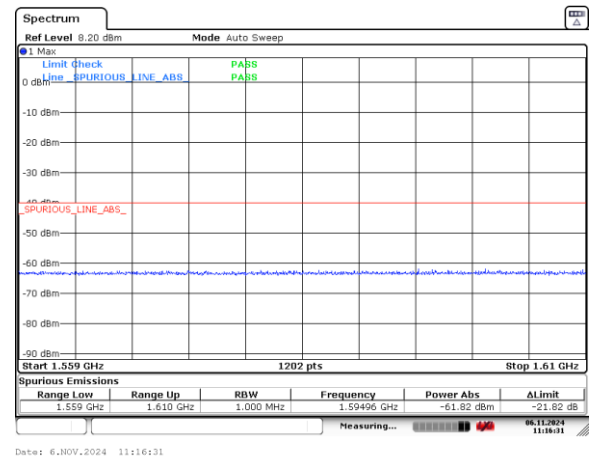
Middle Channel / 1SC1 / Carrier on



Highest Channel / 1SC1 / Carrier off



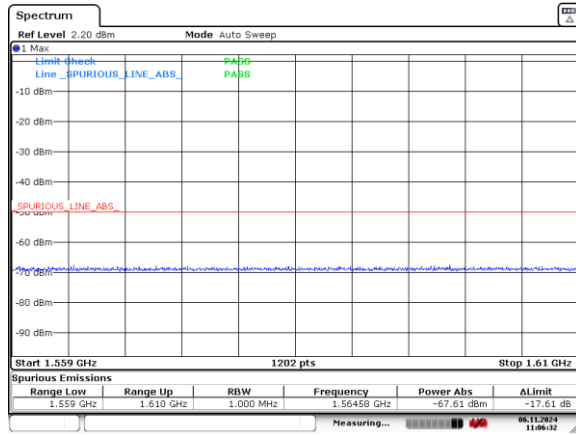
Highest Channel / 1SC1 / Carrier on



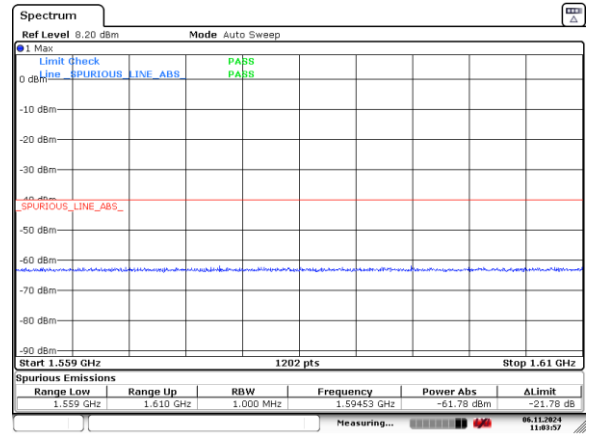
NTN Band 23 SCS3.75kHz

**QPSK**

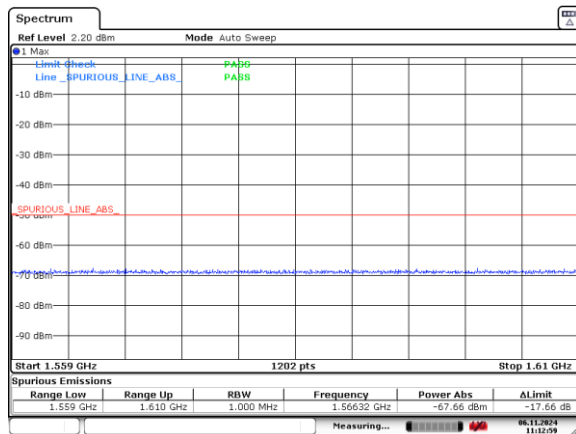
**Lowest Channel / 1SC1 / Carrier off**



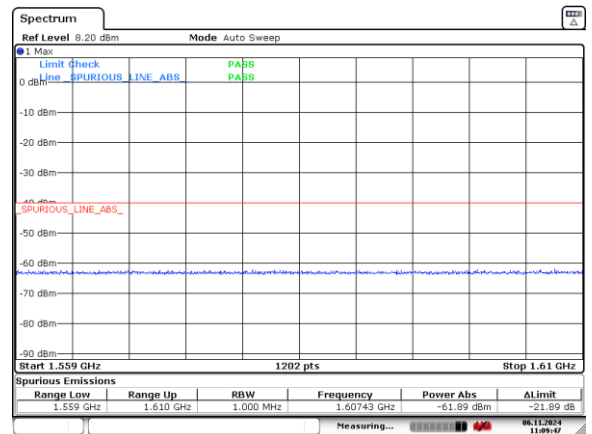
**Lowest Channel / 1SC1 / Carrier on**



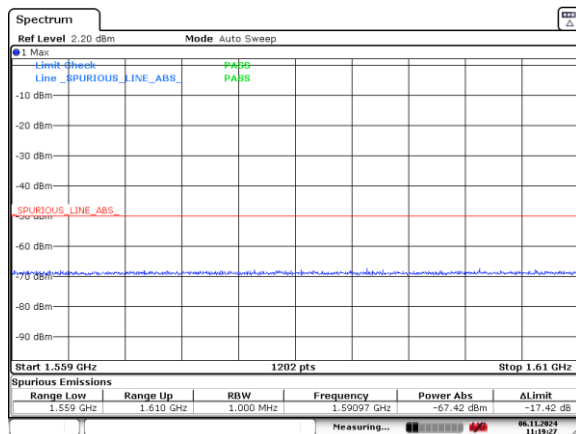
**Middle Channel / 1SC1 / Carrier off**



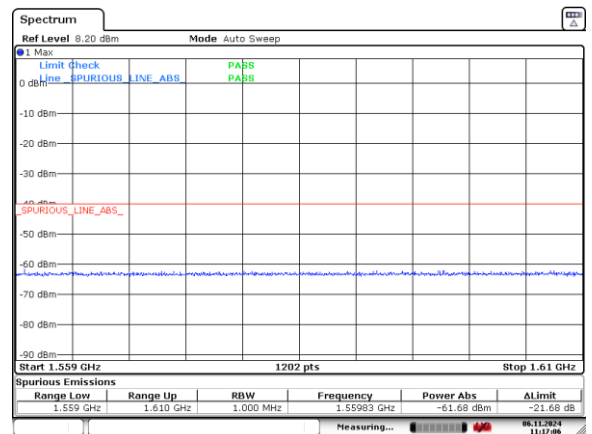
**Middle Channel / 1SC1 / Carrier on**



**Highest Channel / 1SC1 / Carrier off**



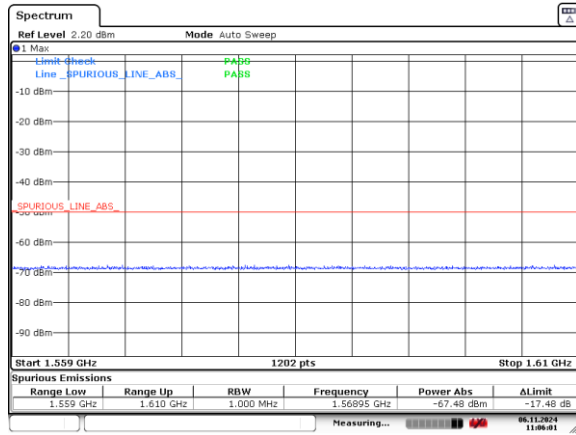
**Highest Channel / 1SC1 / Carrier on**



**NTN Band 23 SCS15kHz**

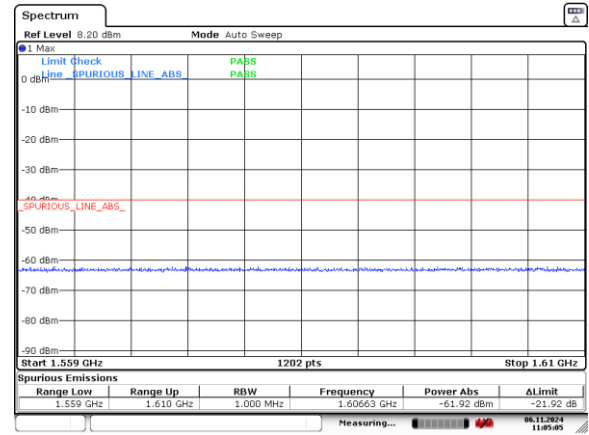
**BPSK**

**Lowest Channel / 1SC1 / Carrier off**



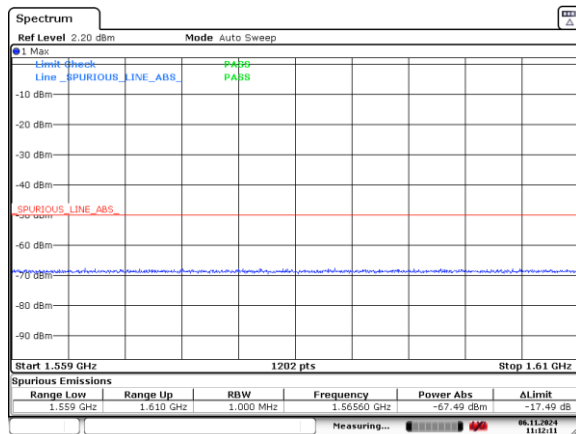
Date: 6.NOV.2024 11:06:01

**Lowest Channel / 1SC1 / Carrier on**



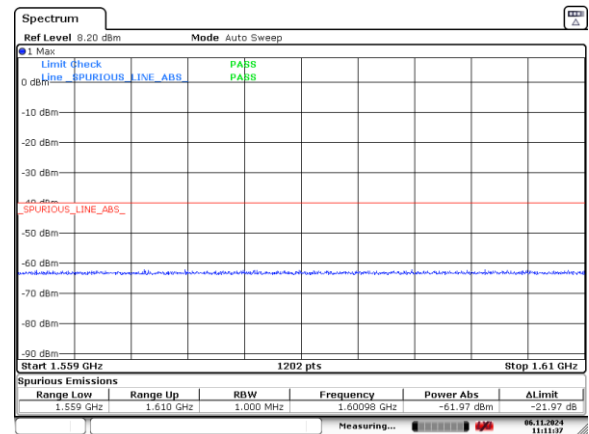
Date: 6.NOV.2024 11:05:05

**Middle Channel / 1SC1 / Carrier off**



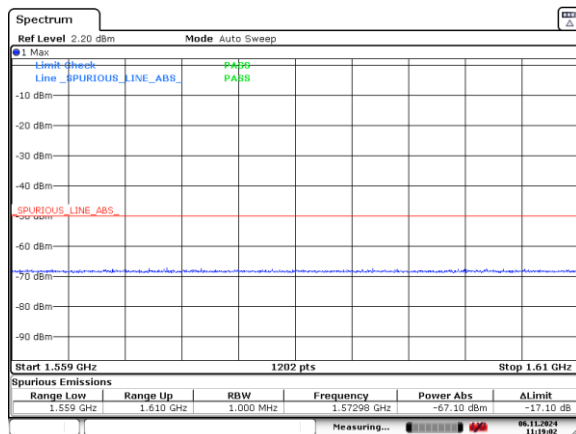
Date: 6.NOV.2024 11:12:11

**Middle Channel / 1SC1 / Carrier on**



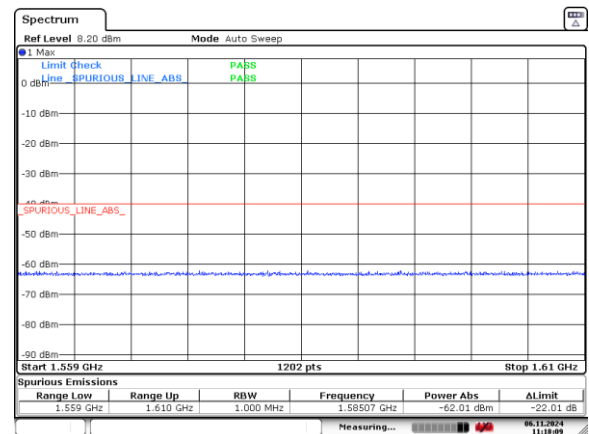
Date: 6.NOV.2024 11:11:37

**Highest Channel / 1SC1 / Carrier off**



Date: 6.NOV.2024 11:19:02

**Highest Channel / 1SC1 / Carrier on**



Date: 6.NOV.2024 11:18:09

**NTN Band 23 SCS15kHz**