FCC RADIO TEST REPORT

FCC ID	:	A4RGBC0H
Equipment	:	Phone
Model Name	:	GBC0H
Applicant	:	Google LLC 1600 Amphitheatre Parkway, Mountain View, CA, 94043 USA
Standard	:	FCC 47 CFR Part 2, and 25

The product was received on Dec. 08, 2025 and testing was performed from Dec. 09, 2025 to Feb. 07, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory
No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

Table of Contents

History of This Test Report **3**
Summary of Test Result **4**

1 General Description **5**
1.1 Product Feature of Equipment Under Test 5
1.2 Modification of EUT 5
1.3 Testing Location 6
1.4 Applied Standards 6

2 Test Configuration of Equipment Under Test **7**
2.1 Test Mode 7
2.2 Connection Diagram of Test System 7
2.3 Support Unit used in test configuration and system 8
2.4 Measurement Results Explanation Example 8
2.5 Frequency List of Low/Middle/High Channels 8

3 Test Result **9**
3.1 RF Output Power 9
3.2 Frequency Stability 10
3.3 Occupied Bandwidth 11
3.4 Conducted Emissions Mask 12
3.5 Conducted Spurious Emission 14
3.6 Field Strength of Spurious Radiation 16
3.7 Additional Limits on Emissions from Mobile Earth Station 19

4 List of Measuring Equipment **22**

5 Measurement Uncertainty **23**

Appendix A. Test Results of Conducted Test
Appendix B. Test Results of Radiated Test
Appendix C. Test Setup Photographs

History of this test report

Report No.	Version	Description	Issue Date
FG5N0803-01I	01	Initial issue of report	Mar. 27, 2026
FG5N0803-01I	02	Revise Frequency List of Low/Middle/High Channels This report is an updated version, replacing the report issued on Mar. 27, 2026.	May 05, 2026

Summary of Test Result

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046(a) §25.204(a)	RF Output Power	40dBW(max)	PASS	-
3.2	§2.1055 §25.202(d)	Frequency Stability	within 0.001 percent of the reference frequency.	PASS	-
3.3	§2.1049	Occupied Bandwidth	-	PASS	-
3.4	§2.1051 §25.202(f)	Conducted Emissions Mask	§25.202(f)	PASS	-
3.5	§2.1051 §25.202(f)	Conducted Spurious Emission	§25.202(f)	Pass	-
3.6	§2.1053 §25.202(f)	Field Strength of Spurious Radiation	§25.202(f)	PASS	-
3.7	§25.216(c)(e)(h)(i)	Additional Limits on Emissions from Mobile Earth Station	§25.216(c)(e)(h)(i)	PASS	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”.

Disclaimer:

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

Reviewed by: William Chen

Report Producer: Aya Yang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs GSM/WCDMA/LTE/5G NR/NTN, Bluetooth, BLE, BLE channel sounding, Thread, Wi-Fi 802.11be, NFC, WPC Rx, UWB and GNSS Rx. **Antenna Type** NTN: ILA Antenna

EUT Information List	
S/N	Performed Test Item
5B171FDDV00006	Conducted Measurement EIRP
5B301FDDV0004V	Radiated Spurious Emission

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

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	03CH07-HY (TAF Code: 1190)
Test Engineer	Jesse Wang, Stan Hsieh and Ken Wu
Temperature (℃)	19.7~22.6
Relative Humidity (%)	49.6~66.3
Remark	The Field Strength of Spurious Radiation test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY
Test Engineer	Kevin Xiao
Temperature (℃)	23.5~24.7
Relative Humidity (%)	50.1~53.2

FCC Designation No.: TW1190 and TW3786

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

1.4 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR Part 2, 25
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

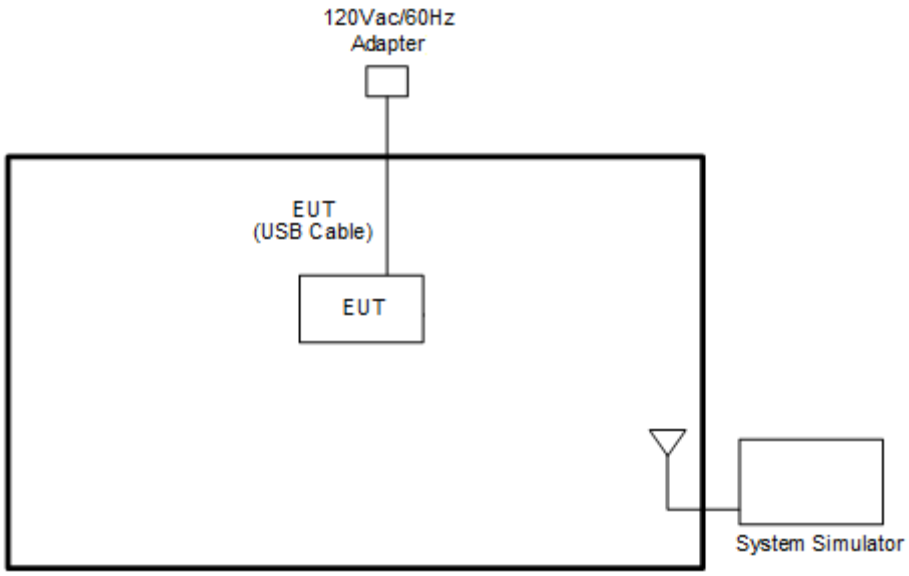
For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT (open and close) and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and accessory (Adapter or Earphone) and adjusting the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

Remark:

1. During the preliminary test, both charging modes (Adapter mode and WPC Rx mode) and standalone mode were verified. It is determined that the adaptor mode is the worst case for official test.

2.2 Connection Diagram of Test System

<EUT with Adapter>



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station	Rohde & Schwarz	CMU200	N/A	N/A	Unshielded, 1.8 m
2.	Base Station	Anritsu	8821C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

2.5 Frequency List of Low/Middle/High Channels

Band 23 Channel and Frequency List			
Channel/Frequency(MHz)	**Lowest**	**Middle**	**Highest**
Channel	25501	25600	25699
Frequency	2000.1	2010.0	2019.0

Band 255 Channel and Frequency List			
Channel/Frequency(MHz)	**Lowest**	**Middle**	**Highest**
Channel	261505	261674	261843
Frequency	1626.6	1643.5	1660.4

3 Test Result

3.1 RF Output Power

3.1.1 Description of the Conducted Output Power Measurement

FCC Part 25.204 (a)

In bands shared coequally with terrestrial radio communication services, the equivalent isotropically radiated power transmitted in any direction towards the horizon by an earth station, other than an ESV, operating in frequency bands between 1 and 15 GHz, shall not exceed the following limits except as provided for in paragraph (c) of this section:

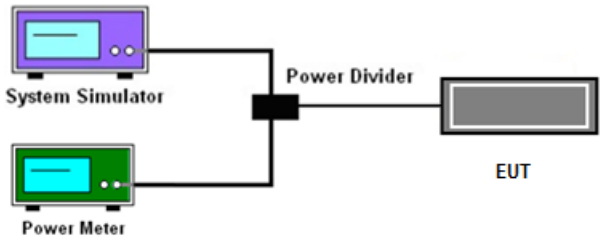
- + 40 dBW in any 4 kHz band for θ ≤0°
- + 40 + 3θ dBW in any 4 kHz band for 0° <θ ≤5°

  Where θ is the angle of elevation of the horizon viewed from the center of radiation of the antenna of the earth station and measured in degrees as positive above the horizontal plane and negative below it.

3.1.2 Test Procedures

The output power is measured by using power meter when the transmitter is operating at the manufacturer's rated power and modulated with signals. The maximum antenna gain of EUT for the test range will then be added to the measured conducted power to calculate the EIRP. Since the power meter can only measure the overall power, the measured result will be worse than the one measured in 4 kHz RBW. The test result will be compared to the most restricted limit: +40 dBW.

3.1.3 Test Setup



3.1.4 Test Results

Please refer to Appendix A.

3.2 Frequency Stability

3.2.1 Description of the Frequency Stability Measurement

FCC Part 25.202 (d) Frequency tolerance, Earth stations. The carrier frequency of each earth station transmitter authorized in these services shall be maintained within 0.001 percent of the reference frequency.

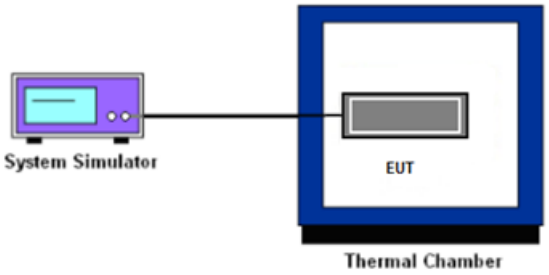
3.2.2 Test Procedures for Temperature Variation

1. The testing follows FCC KDB 971168 D01 v03r01 Section 9.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.2.3 Test Procedures for Voltage Variation

1. The testing follows FCC KDB 971168 D01 Section 9.
2. The EUT was placed in a temperature chamber at 20±5° C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from the lowermost voltage to the uppermost voltage. The range is specified by manufacturer.
4. The variation in frequency was measured for the worst case.

3.2.4 Test Setup



3.2.5 Test Results

Please refer to Appendix A.

3.3 Occupied Bandwidth

3.3.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

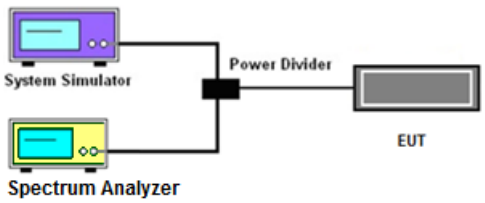
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The testing follows FCC KDB 971168 D01 v03r01 Section 4.2.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
7. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.3.4 Test Setup



3.3.5 Test Result

Please refer to Appendix A.

3.4 Conducted Emissions Mask

3.4.1 Description of Conducted Spurious Emission Measurement

FCC Part 25.202(f) Emissions Limitations 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: 25 decibels;

(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: 35 decibels;

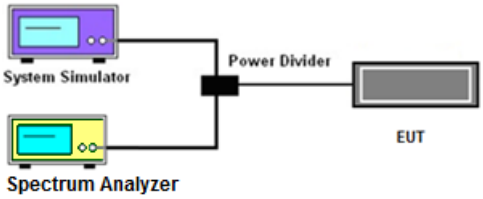
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 971168 v03r01 D01 Section 6.1.
2. The EUT was connected to the spectrum analyzer.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The highest RF power within the transmitting frequency was measured.
5. Make the measurement with the spectrum analyzer's RBW = 3kHz, VBW = 10kHz, taking the record of the worst unwanted emission with additional RBW factor offset 10log(4kHz/3kHz) = 1.25dB.
6. If the test result in Step 5 exceed the limit, the following procedure will be used:
   6.1. Make the measurement with the spectrum analyzer's RBW = 1kHz, VBW = 3kHz.
   6.2. Record all measured worst frequencies.
   6.3. Use the Channel Power Function of the Spectrum Analyzer.
   6.4. Measure the powers of 4kHz bandwidth center the worst frequencies.
7. The limit line is derived from FCC 25.202 (f) below the transmitter power P(Watts)

3.4.4 Test Setup



3.4.5 Test Result

Please refer to Appendix A.

3.5 Conducted Spurious Emission

3.5.1 Description of Conducted Spurious Emission Measurement

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

(3) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250% of the authorized bandwidth: an amount equal to 43 decibels plus 10 times Logarithm (to the base 10) of the transmitter power in watts.

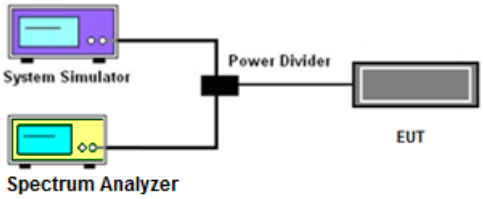
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

1. The testing follows FCC KDB 971168 v03r01 D01 Section 6.1.
2. The EUT was connected to the spectrum analyzer.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The highest RF power within the transmitting frequency was measured.
5. Peak detector is used instead of RMS detector since the measured result of Peak detector is worse than the RMS one. If the test result of Peak detector exceed the limit, RMS detector will then be used.
6. Make the measurement with the spectrum analyzer's RBW = 100kHz, VBW = 300kHz, taking the record of the worst unwanted emission.
7. The conducted spurious emission for the whole frequency range was taken.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is derived from FCC 25.202 (f) below the transmitter power P(Watts)

3.5.4 Test Setup



3.5.5 Test Result

Please refer to Appendix A.

3.6 Field Strength of Spurious Radiation

3.6.1 Description of Radiated Spurious Emission

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

(3) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250% of the authorized bandwidth: an amount equal to 43 decibels plus 10 times Logarithm (to the base 10) of the transmitter power in watts

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.6.2 Measuring Instruments

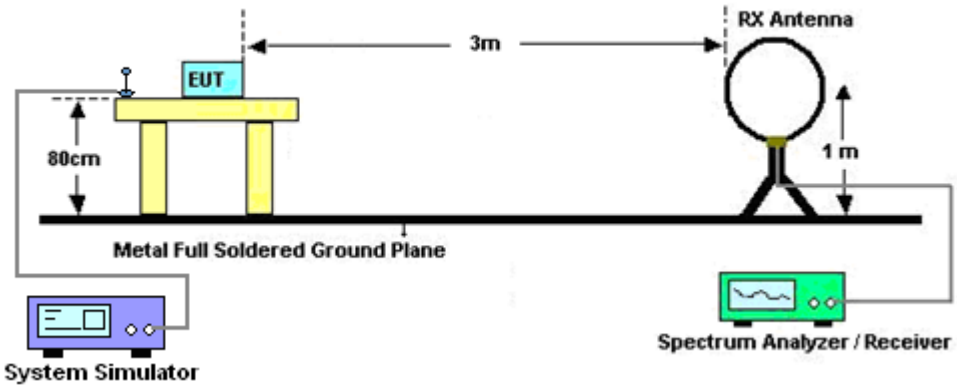
The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

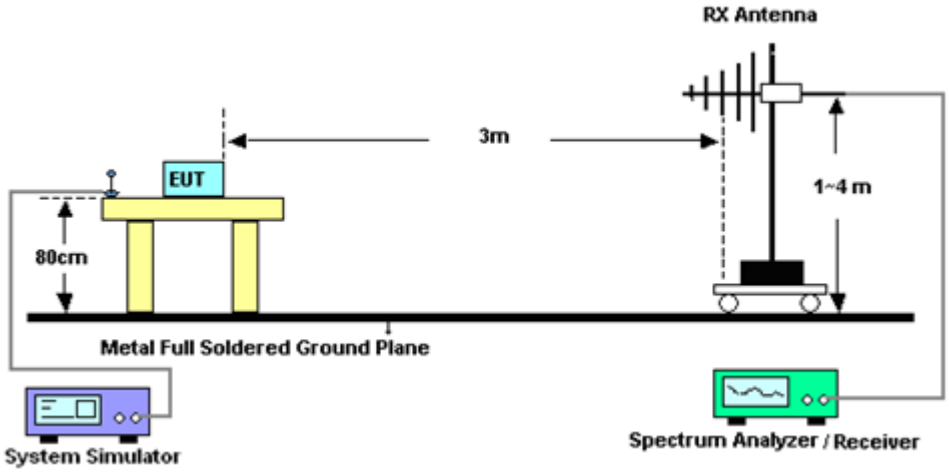
1. The testing follows ANSI/TIA-603-E.
2. The EUT was placed on a rotatable table with:
   - 0.8 meter above ground for emissions under 1 GHz
   - 1.5 meter above ground for emissions above 1 GHz
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
6. Peak detector is used instead of RMS detector since the measured result of Peak detector is worse than the RMS one. If the test result of Peak detector exceed the limit, RMS detector will then be used.
7. Make the measurement with the spectrum analyzer's RBW = 100kHz, VBW = 300kHz, taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.6.4 Test Setup

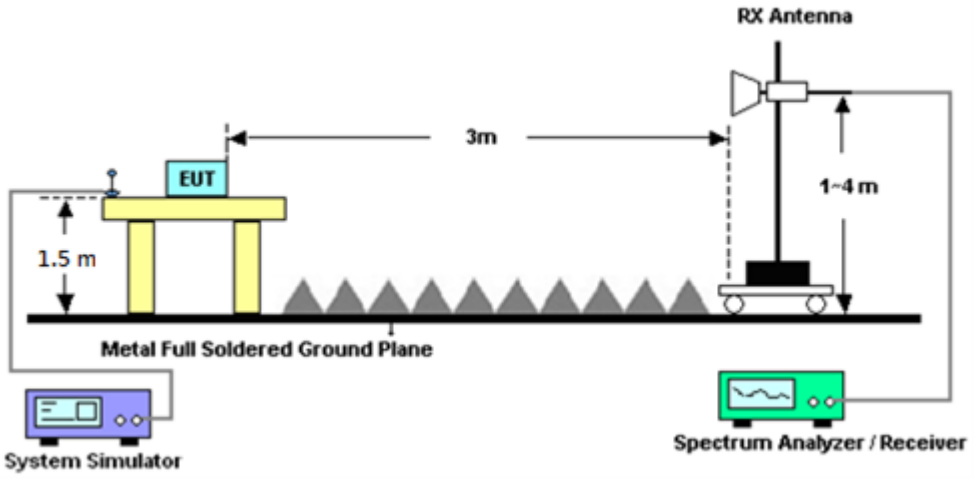
For radiated emissions from 10KHz to 30MHz.



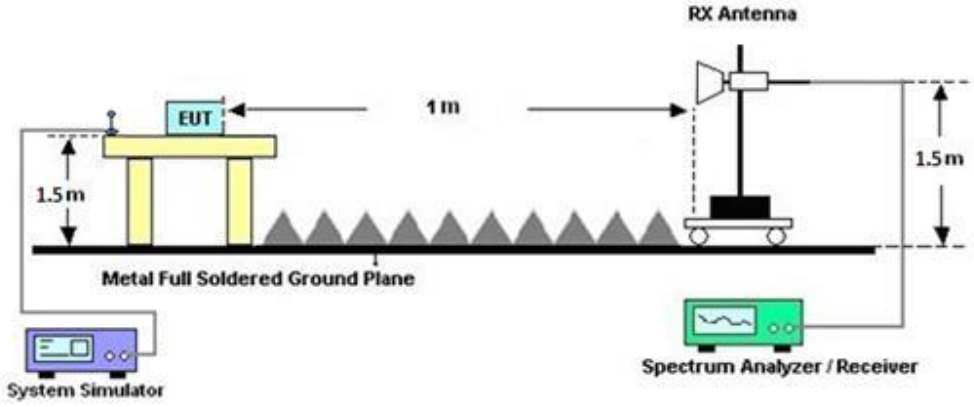
For radiated emissions from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz



For radiated emissions above 18GHz



3.6.5 Test Results

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.7 Additional Limits on Emissions from Mobile Earth Station

Additional Limits on emissions from mobile earth stations for protection of aeronautical radionavigation-satellite service and Special requirements for ancillary terrestrial components operating in the 1626.5-1660.5 MHz and 2000-2020 MHz bands.

3.7.1 Description of Additional Limits on Emissions from Mobile Earth Station

FCC Part 25.216 Emissions Limitations:

(c) 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 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 dBW, averaged over any 2 millisecond active transmission interval, in the 1559-1605 MHz band.

(e) 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 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 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 dBW, averaged over any 2 millisecond active transmission interval.

(h) 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 dBW/MHz at 1605 MHz to −46 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 dBW at 1605 MHz to −56 dBW at 1610 MHz, averaged over any 2 millisecond active transmission interval.

(i) 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.

(j) A Root-Mean-Square detector shall be used for all power density measurements.

3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedures

For Conducted test:

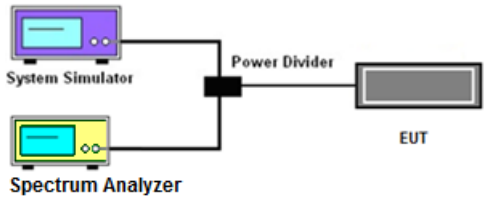
1. The testing follows FCC KDB 971168 v03r01 D01 Section 6.1.
2. The EUT was connected to the spectrum analyzer.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The highest RF power within the transmitting frequency was measured.
5. Make the measurement with the spectrum analyzer's RBW = 1kHz for discrete emissions, RBW = 1MHz for broadband emissions, and VBW = 3 x RBW Taking the record of maximum spurious emission.

For Radiated test:

1. The testing follows ANSI/TIA-603-E.
2. The EUT was placed on a rotatable table with 1.5 meter above ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1kHz for discrete emissions, RBW = 1MHz for broadband emissions, and VBW = 3 x RBW Taking the record of maximum spurious emission.

3.7.4 Test Setup

For conducted test



For Radiated test, please refer to clause 3.6.4 of this test report.

3.7.5 Test Results

For test results of conducted test, please refer to Appendix A.

For test results of Radiated test, please refer to Appendix B.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Signal Analyzer	Rohde & Schwarz	FSV40	101909	10Hz - 40GHz	Aug. 18, 2025	Dec. 16, 2025~ Jan. 07, 2026	Aug. 17, 2026	Conducted (TH05-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6272278356	LTE FDD/TDD DLCA/ULCA	Aug. 16, 2025	Dec. 16, 2025 ~ Jan. 07, 2026	Aug. 15, 2026	Conducted (TH05-HY)
DC Power Supply	GW Instek	GPE-2323	GET861546	0V~64V ; 0A~6A	Jun. 03, 2025	Dec. 16, 2025 ~ Jan. 07, 2026	Jun. 02, 2026	Conducted (TH05-HY)
Temperature & Humidity Cabinet Chamber	ESPEC	LHU-113	1012005860	-20℃~85℃	Dec. 17, 2025	Dec. 16, 2025 ~ Jan. 07, 2026	Dec. 16, 2026	Conducted (TH05-HY)
Coupler	MVE	MVE4816	A400014	0.5~18GHz	Mar. 07, 2025	Dec. 16, 2025 ~ Jan. 07, 2026	Mar. 06, 2026	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 04, 2025	Dec. 16, 2025 ~ Jan. 07, 2026	Nov. 03, 2026	Conducted (TH05-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 21, 2025	Dec. 09, 2025 ~ Feb. 07, 2026	Apr. 20, 2026	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Mar. 06, 2025	Dec. 09, 2025 ~ Feb. 07, 2026	Mar. 05, 2026	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-00101 800-30-10P	1590075	1GHz~18GHz	Apr. 18, 2025	Dec. 09, 2025 ~ Feb. 07, 2026	Apr. 17, 2026	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Aug. 08, 2025	Dec. 09, 2025 ~ Feb. 07, 2026	Aug. 07, 2026	Radiation (03CH07-HY)
Signal Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 28, 2025	Dec. 09, 2025 ~ Feb. 07, 2026	Mar. 27, 2026	Radiation (03CH07-HY)
Double Ridged Guide Horn Antenna	ETS-Lindgren	3117	00075962	1GHz ~ 18GHz	Dec. 09, 2025	Dec. 09, 2025 ~ Feb. 07, 2026	Dec. 08, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4 MY15682/4	30MHz to 18GHz	Feb. 20, 2025	Dec. 09, 2025 ~ Feb. 07, 2026	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4	9kHz to 30MHz	Feb. 20, 2025	Dec. 09, 2025 ~ Feb. 07, 2026	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 13, 2025	Dec. 09, 2025 ~ Feb. 07, 2026	Sep. 12, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 20, 2025	Dec. 09, 2025 ~ Feb. 07, 2026	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 23, 2025	Dec. 09, 2025 ~ Feb. 07, 2026	Apr. 22, 2026	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Dec. 09, 2025 ~ Feb. 07, 2026	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Dec. 09, 2025 ~ Feb. 07, 2026	N/A	Radiation (03CH07-HY)
Antenna Mast	MF	MF-7802	N/A	Control Turn table	N/A	Dec. 09, 2025 ~ Feb. 07, 2026	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Dec. 09, 2025 ~ Feb. 07, 2026	N/A	Radiation (03CH07-HY)
Software	Audix	E3	RK-002396	N/A	N/A	Dec. 09, 2025 ~ Feb. 07, 2026	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Feb. 24, 2025	Dec. 09, 2025 ~ Feb. 07, 2026	Feb. 23, 2026	Radiation (03CH07-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	00991	18GHz-40GHz	May. 29, 2025	Dec. 09, 2025 ~ Feb. 07, 2026	May. 28, 2026	Radiation (03CH07-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.3 dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.4 dB

Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.2 dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.4 dB

Appendix A. Test Results of Conducted Test

Test Engineer :	Kevin Xiao	Temperature :	23.5~24.7℃
		Relative Humidity :	50.1~53.2%

Band 23

Conducted Output Power (Average power) and EIRP

Band 23 SCS 3.75kHz							Limit
Test Frequency (MHz)	SC Size	Conducted Power (dBm)		Antenna Gain (dBi)	EIRP Power (dBm)		Result
		BPSK	QPSK		BPSK	QPSK	
2000.1	1SC0	22.46	22.51	-1.20	21.26	21.31	PASS
	1SC47	22.40	22.42	-1.20	21.20	21.22	
2010	1SC0	21.86	21.92	-1.20	20.66	20.72	
	1SC47	21.82	21.84	-1.20	20.62	20.64	
2019.9	1SC0	22.19	22.21	-1.20	20.99	21.01	
	1SC47	22.09	22.23	-1.20	20.89	21.03	

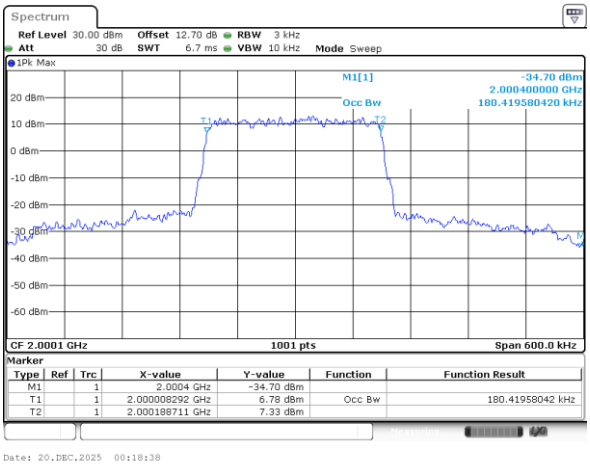
Band 23 SCS 15kHz							Limit
Test Frequency (MHz)	SC Size	Conducted Power (dBm)		Antenna Gain (dBi)	EIRP Power (dBm)		Result
		BPSK	QPSK		BPSK	QPSK	
2000.1	1SC0	22.39	22.50	-1.20	21.19	21.30	PASS
	1SC11	22.40	22.48	-1.20	21.20	21.28	
	3SC0	-	21.98	-1.20	-	20.78	
	3SC9	-	21.96	-1.20	-	20.76	
	6SC0	-	21.24	-1.20	-	20.04	
	6SC6	-	21.20	-1.20	-	20.00	
	12SC0	-	20.56	-1.20	-	19.36	
2010	1SC0	21.66	21.86	-1.20	20.46	20.66	
	1SC11	21.66	21.71	-1.20	20.46	20.51	
	3SC0	-	21.34	-1.20	-	20.14	
	3SC9	-	21.29	-1.20	-	20.09	
	6SC0	-	20.64	-1.20	-	19.44	
	6SC6	-	20.60	-1.20	-	19.40	
	12SC0	-	19.84	-1.20	-	18.64	
2019.9	1SC0	22.21	22.28	-1.20	21.01	21.08	
	1SC11	22.20	22.33	-1.20	21.00	21.13	
	3SC0	-	21.80	-1.20	-	20.60	
	3SC9	-	21.93	-1.20	-	20.73	
	6SC0	-	21.14	-1.20	-	19.94	
	6SC6	-	21.13	-1.20	-	19.93	
	12SC0	-	20.28	-1.20	-	19.08	

Occupied Bandwidth

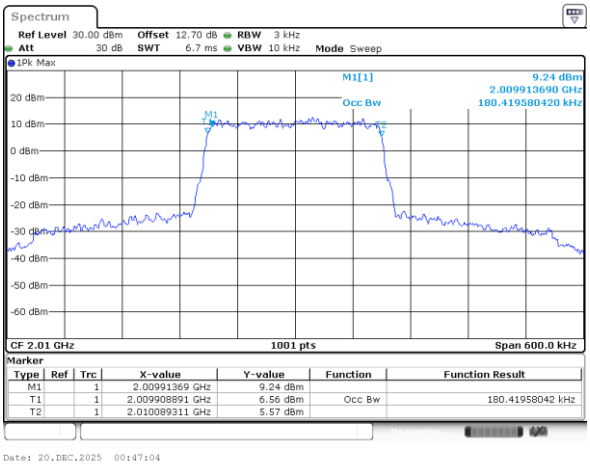
Mode	Band 23 : 99%OBW(kHz)
SCS	15kHz
Mod.	QPSK
SC Size	12SC0
Lowest CH	180.42
Middle CH	180.42
Highest CH	179.82

Band 23 SCS 15kHz

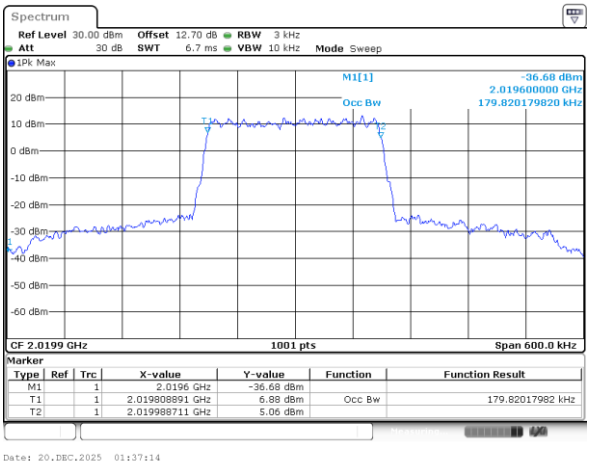
Lowest Channel / 12SC0 / QPSK



Middle Channel / 12SC0 / QPSK



Highest Channel / 12SC0 / QPSK



Conducted Emissions Mask

B23 L CH 2000.1 MHz								
SCS (kHz)	Modulation	SC config	Measured Value (dBm / 3 kHz)	Measured Value (dBm / 4 kHz)	Verified Value (dBm / 4 kHz)	Limit (dBm / 4 kHz)	Δlimit (dB)	Result
3.75	BPSK	1SC0	-32.17	-30.92	-	-2.68	-28.24	Pass
3.75	BPSK	1SC47	-32.24	-30.99	-	-2.47	-28.52	Pass
3.75	QPSK	1SC0	-32.06	-30.81	-	-2.53	-28.28	Pass
3.75	QPSK	1SC47	-34.21	-32.96	-	-2.63	-30.33	Pass
15	BPSK	1SC0	-28.68	-27.43	-	-2.49	-24.94	Pass
15	BPSK	1SC11	-29.19	-27.94	-	-2.56	-25.38	Pass
15	QPSK	1SC0	-30.49	-29.24	-	-2.51	-26.73	Pass
15	QPSK	1SC11	-32.08	-30.83	-	-2.58	-28.25	Pass
15	QPSK	3SC0	-28.17	-26.92	-	-3.15	-23.77	Pass
15	QPSK	3SC9	-26.89	-25.64	-	-3.20	-22.44	Pass
15	QPSK	6SC0	-27.25	-26.00	-	-3.89	-22.11	Pass
15	QPSK	6SC6	-29.37	-28.12	-	-3.88	-24.24	Pass
15	QPSK	12SC0	-35.79	-34.54	-	-14.56	-19.98	Pass

B23 M CH 2010 MHz								
SCS (kHz)	Modulation	SC config	Measured Value (dBm / 3 kHz)	Measured Value (dBm / 4 kHz)	Verified Value (dBm / 4 kHz)	Limit (dBm / 4 kHz)	Δlimit (dB)	Result
3.75	BPSK	1SC0	-36.28	-35.03	-	-3.37	-31.66	Pass
3.75	BPSK	1SC47	-37.24	-35.99	-	-3.39	-32.60	Pass
3.75	QPSK	1SC0	-46.67	-45.42	-	-13.00	-32.42	Pass
3.75	QPSK	1SC47	-46.62	-45.37	-	-13.00	-32.37	Pass
15	BPSK	1SC0	-29.98	-28.73	-	-3.41	-25.32	Pass
15	BPSK	1SC11	-30.03	-28.78	-	-3.58	-25.20	Pass
15	QPSK	1SC0	-31.87	-30.62	-	-3.32	-27.30	Pass
15	QPSK	1SC11	-32.43	-31.18	-	-3.38	-27.80	Pass
15	QPSK	3SC0	-27.49	-26.24	-	-3.89	-22.35	Pass
15	QPSK	3SC9	-26.84	-25.59	-	-4.02	-21.57	Pass
15	QPSK	6SC0	-28.97	-27.72	-	-4.59	-23.13	Pass
15	QPSK	6SC6	-30.12	-28.87	-	-4.57	-24.30	Pass
15	QPSK	12SC0	-37.18	-35.93	-	-15.35	-20.58	Pass

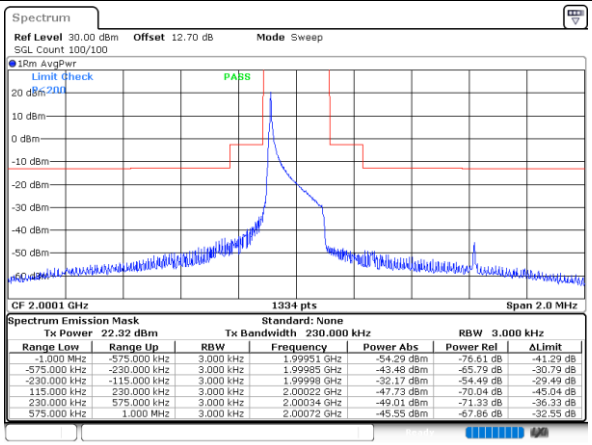
B23 H CH 2019.9 MHz								
SCS (kHz)	Modulation	SC config	Measured Value (dBm / 3 kHz)	Measured Value (dBm / 4 kHz)	Verified Value (dBm / 4 kHz)	Limit (dBm / 4 kHz)	Δlimit (dB)	Result
3.75	BPSK	1SC0	-37.65	-36.40	-	-3.00	-33.40	Pass
3.75	BPSK	1SC47	-47.66	-46.41	-	-13.02	-33.39	Pass
3.75	QPSK	1SC0	-47.99	-46.74	-	-13.06	-33.68	Pass
3.75	QPSK	1SC47	-47.60	-46.35	-	-12.99	-33.36	Pass
15	BPSK	1SC0	-30.00	-28.75	-	-2.95	-25.80	Pass
15	BPSK	1SC11	-30.68	-29.43	-	-2.81	-26.62	Pass
15	QPSK	1SC0	-32.01	-30.76	-	-2.87	-27.89	Pass
15	QPSK	1SC11	-32.94	-31.69	-	-2.95	-28.74	Pass
15	QPSK	3SC0	-29.42	-28.17	-	-3.26	-24.91	Pass
15	QPSK	3SC9	-29.06	-27.81	-	-3.32	-24.49	Pass
15	QPSK	6SC0	-30.04	-28.79	-	-4.06	-24.73	Pass
15	QPSK	6SC6	-31.67	-30.42	-	-4.06	-26.36	Pass
15	QPSK	12SC0	-38.48	-37.23	-	-14.89	-22.34	Pass

Remark: The above results of RBW 3kHz should be added a factor of 10log(4kHz/3kHz) = 1.25dB.

If the result of the Mask method with factor fails, then the Channel Power method will be used.

Band 23 SCS 3.75kHz

Lowest Channel / 1SC0 / BPSK

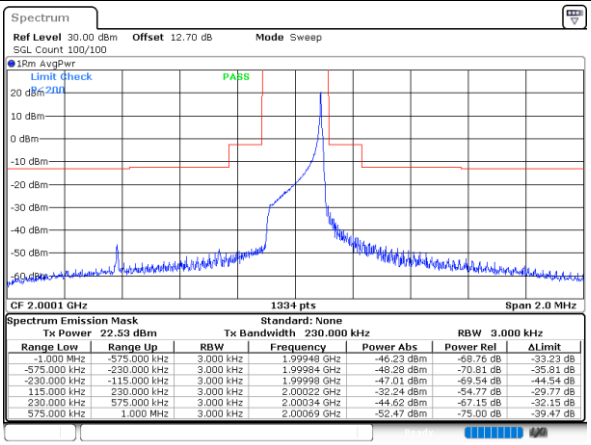


Spectrum Emission Mask Standard: None
Tx Power 22.32 dBm Tx Bandwidth 230.000 kHz RBW 3.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.000 MHz	-575.000 kHz	3.000 kHz	1.99951 GHz	-54.29 dBm	-76.61 dB	-41.29 dB
-575.000 kHz	-230.000 kHz	3.000 kHz	1.99985 GHz	-43.48 dBm	-65.79 dB	-30.79 dB
-230.000 kHz	-115.000 kHz	3.000 kHz	1.99998 GHz	-32.17 dBm	-54.49 dB	-29.49 dB
115.000 kHz	230.000 kHz	3.000 kHz	2.00022 GHz	-47.73 dBm	-70.04 dB	-45.04 dB
230.000 kHz	575.000 kHz	3.000 kHz	2.00034 GHz	-49.01 dBm	-71.33 dB	-36.33 dB
575.000 kHz	1.000 MHz	3.000 kHz	2.00072 GHz	-45.55 dBm	-67.86 dB	-32.55 dB

Date: 19.DEC.2025 23:29:49

Lowest Channel / 1SC47 / BPSK

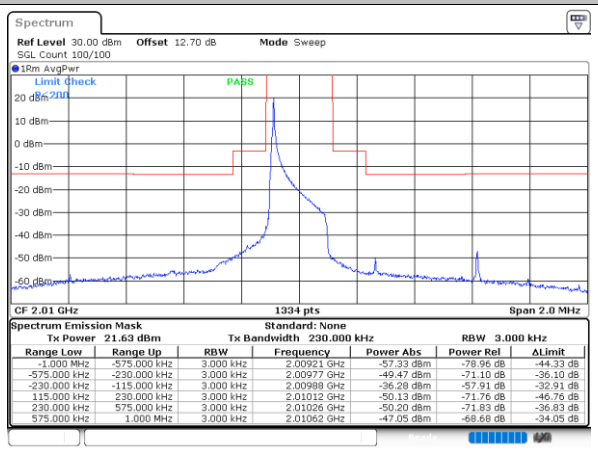


Spectrum Emission Mask Standard: None
Tx Power 22.53 dBm Tx Bandwidth 230.000 kHz RBW 3.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.000 MHz	-575.000 kHz	3.000 kHz	1.99948 GHz	-46.23 dBm	-68.76 dB	-33.23 dB
-575.000 kHz	-230.000 kHz	3.000 kHz	1.99984 GHz	-48.28 dBm	-70.81 dB	-35.81 dB
-230.000 kHz	-115.000 kHz	3.000 kHz	1.99998 GHz	-47.01 dBm	-69.54 dB	-44.54 dB
115.000 kHz	230.000 kHz	3.000 kHz	2.00022 GHz	-32.24 dBm	-54.77 dB	-29.77 dB
230.000 kHz	575.000 kHz	3.000 kHz	2.00034 GHz	-44.62 dBm	-67.15 dB	-32.15 dB
575.000 kHz	1.000 MHz	3.000 kHz	2.00069 GHz	-52.47 dBm	-75.00 dB	-39.47 dB

Date: 19.DEC.2025 23:37:34

Middle Channel / 1SC0 / BPSK

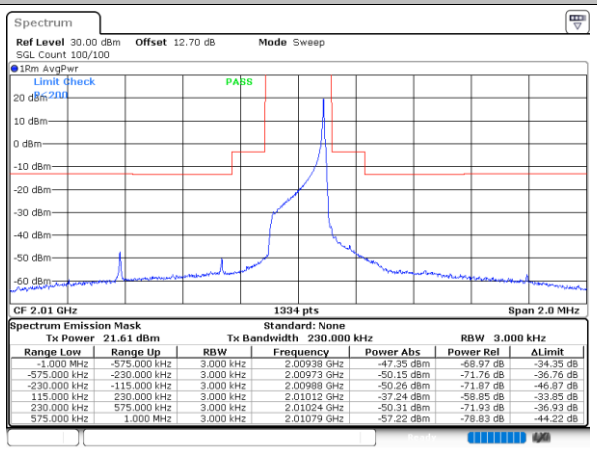


Spectrum Emission Mask Standard: None
Tx Power 21.63 dBm Tx Bandwidth 230.000 kHz RBW 3.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.000 MHz	-575.000 kHz	3.000 kHz	2.00921 GHz	-57.33 dBm	-78.96 dB	-44.33 dB
-575.000 kHz	-230.000 kHz	3.000 kHz	2.00977 GHz	-49.47 dBm	-71.10 dB	-36.10 dB
-230.000 kHz	-115.000 kHz	3.000 kHz	2.00988 GHz	-36.28 dBm	-57.91 dB	-32.91 dB
115.000 kHz	230.000 kHz	3.000 kHz	2.01012 GHz	-50.13 dBm	-71.76 dB	-46.76 dB
230.000 kHz	575.000 kHz	3.000 kHz	2.01026 GHz	-50.20 dBm	-71.83 dB	-36.83 dB
575.000 kHz	1.000 MHz	3.000 kHz	2.01082 GHz	-47.05 dBm	-68.68 dB	-34.05 dB

Date: 20.DEC.2025 00:20:59

Middle Channel / 1SC47 / BPSK

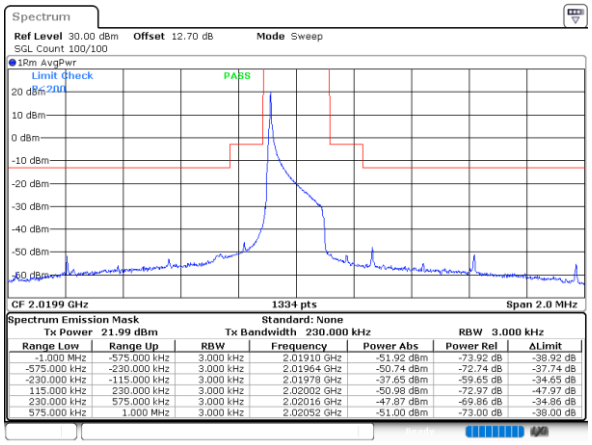


Spectrum Emission Mask Standard: None
Tx Power 21.61 dBm Tx Bandwidth 230.000 kHz RBW 3.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.000 MHz	-575.000 kHz	3.000 kHz	2.00938 GHz	-47.35 dBm	-68.97 dB	-34.35 dB
-575.000 kHz	-230.000 kHz	3.000 kHz	2.00973 GHz	-50.15 dBm	-71.76 dB	-36.76 dB
-230.000 kHz	-115.000 kHz	3.000 kHz	2.00988 GHz	-50.26 dBm	-71.87 dB	-46.87 dB
115.000 kHz	230.000 kHz	3.000 kHz	2.01012 GHz	-37.24 dBm	-58.85 dB	-33.85 dB
230.000 kHz	575.000 kHz	3.000 kHz	2.01024 GHz	-50.31 dBm	-71.93 dB	-36.93 dB
575.000 kHz	1.000 MHz	3.000 kHz	2.01079 GHz	-57.22 dBm	-78.83 dB	-44.22 dB

Date: 20.DEC.2025 00:26:24

Highest Channel / 1SC0 / BPSK

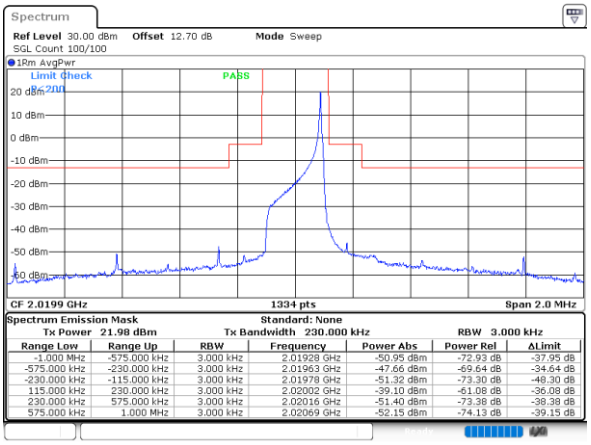


Spectrum Emission Mask Standard: None
Tx Power 21.99 dBm Tx Bandwidth 230.000 kHz RBW 3.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.000 MHz	-575.000 kHz	3.000 kHz	2.01910 GHz	-51.92 dBm	-73.92 dB	-38.92 dB
-575.000 kHz	-230.000 kHz	3.000 kHz	2.01964 GHz	-50.74 dBm	-72.74 dB	-37.74 dB
-230.000 kHz	-115.000 kHz	3.000 kHz	2.01978 GHz	-37.65 dBm	-59.65 dB	-34.65 dB
115.000 kHz	230.000 kHz	3.000 kHz	2.02002 GHz	-50.98 dBm	-72.97 dB	-47.97 dB
230.000 kHz	575.000 kHz	3.000 kHz	2.02016 GHz	-47.87 dBm	-69.86 dB	-34.86 dB
575.000 kHz	1.000 MHz	3.000 kHz	2.02052 GHz	-51.00 dBm	-73.00 dB	-38.00 dB

Date: 20.DEC.2025 01:05:00

Highest Channel / 1SC47 / BPSK



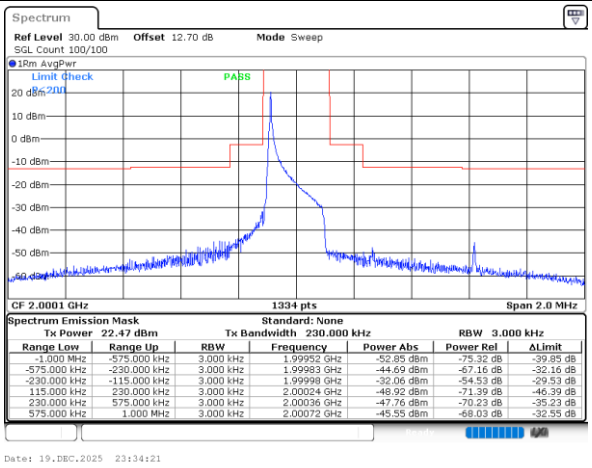
Spectrum Emission Mask Standard: None
Tx Power 21.98 dBm Tx Bandwidth 230.000 kHz RBW 3.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.000 MHz	-575.000 kHz	3.000 kHz	2.01928 GHz	-50.95 dBm	-72.93 dB	-37.95 dB
-575.000 kHz	-230.000 kHz	3.000 kHz	2.01963 GHz	-47.66 dBm	-69.64 dB	-34.64 dB
-230.000 kHz	-115.000 kHz	3.000 kHz	2.01978 GHz	-51.32 dBm	-73.30 dB	-40.30 dB
115.000 kHz	230.000 kHz	3.000 kHz	2.02002 GHz	-39.10 dBm	-61.08 dB	-36.08 dB
230.000 kHz	575.000 kHz	3.000 kHz	2.02016 GHz	-51.40 dBm	-73.38 dB	-38.38 dB
575.000 kHz	1.000 MHz	3.000 kHz	2.02069 GHz	-52.15 dBm	-74.13 dB	-39.15 dB

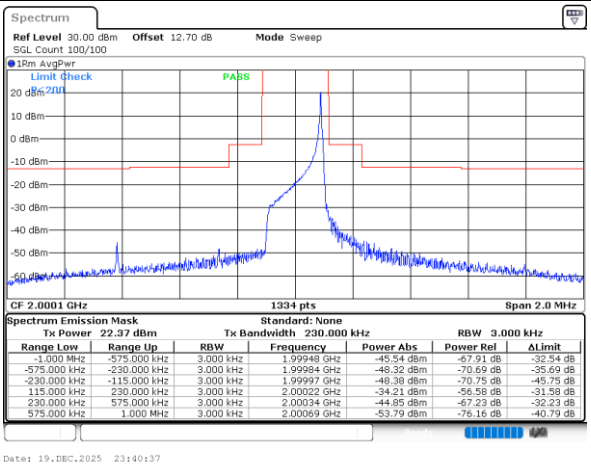
Date: 20.DEC.2025 01:10:48

Band 23 SCS 3.75kHz

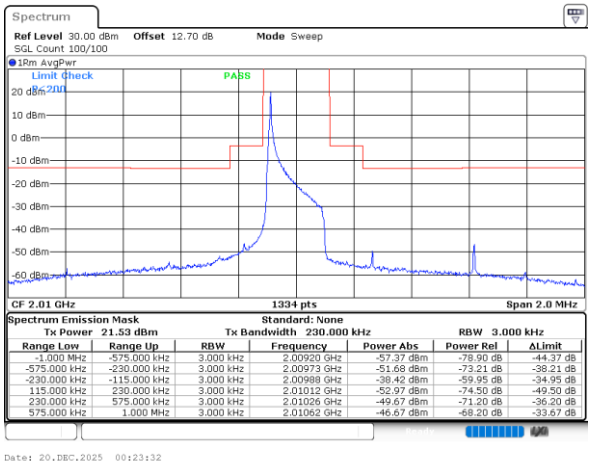
Lowest Channel / 1SC0 / QPSK



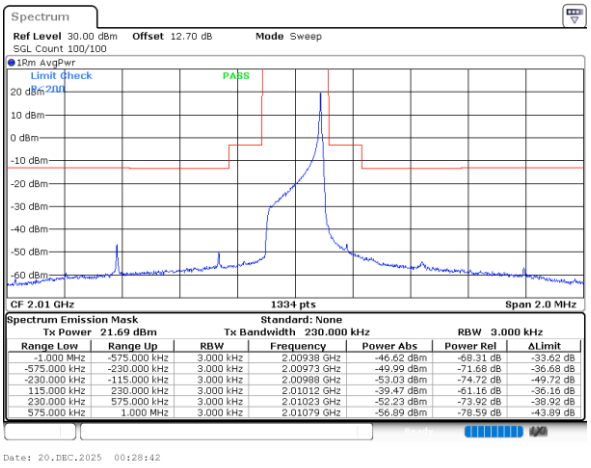
Lowest Channel / 1SC47 / QPSK



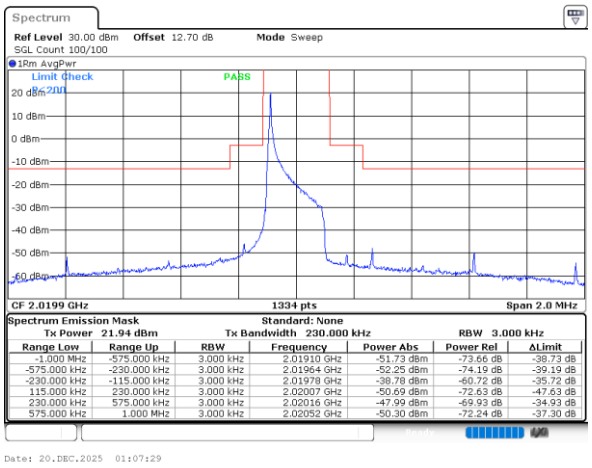
Middle Channel / 1SC0 / QPSK



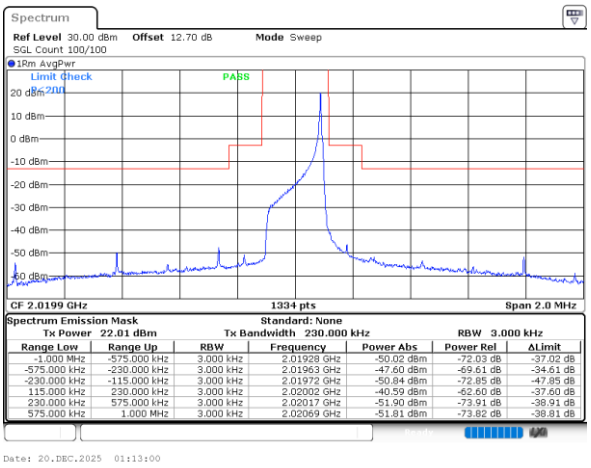
Middle Channel / 1SC47 / QPSK



Highest Channel / 1SC0 / QPSK

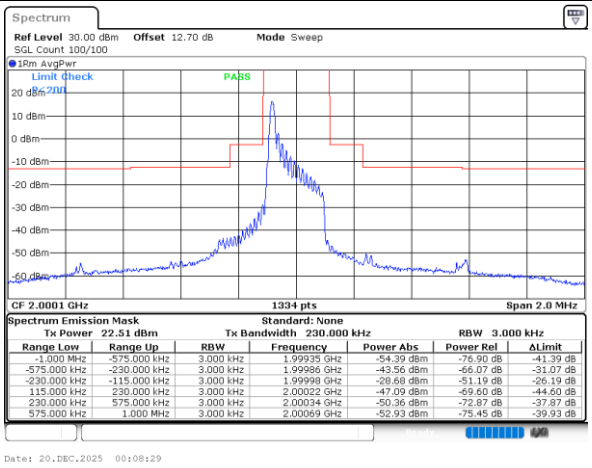


Highest Channel / 1SC47 / QPSK

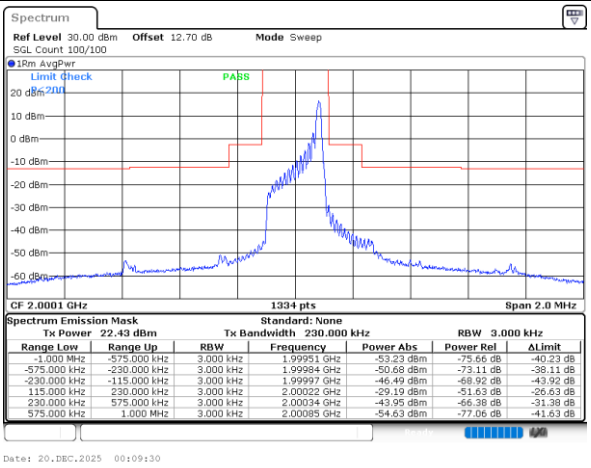


Band 23 SCS 15kHz

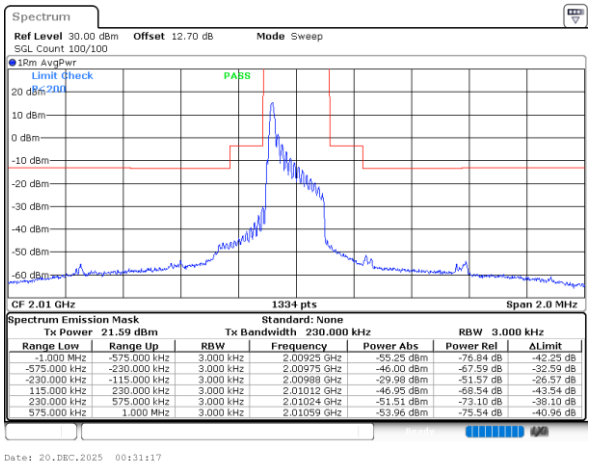
Lowest Channel / 1SC0 / BPSK



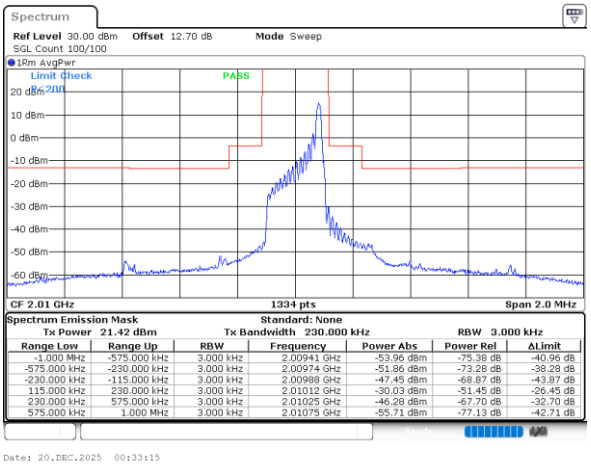
Lowest Channel / 1SC11 / BPSK



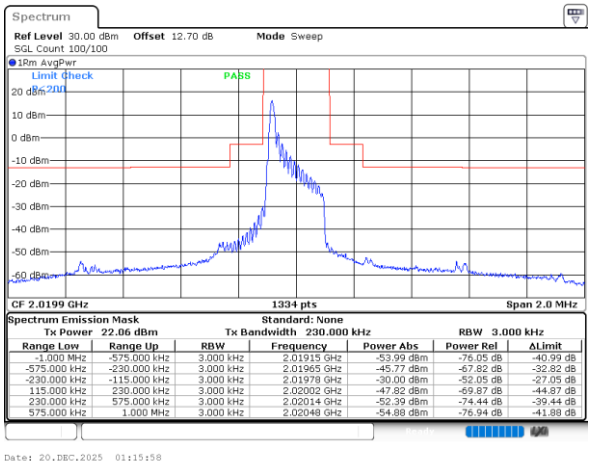
Middle Channel / 1SC0 / BPSK



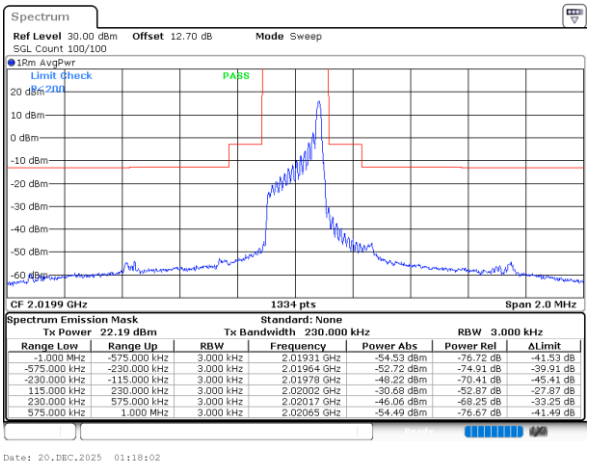
Middle Channel / 1SC11 / BPSK



Highest Channel / 1SC0 / BPSK

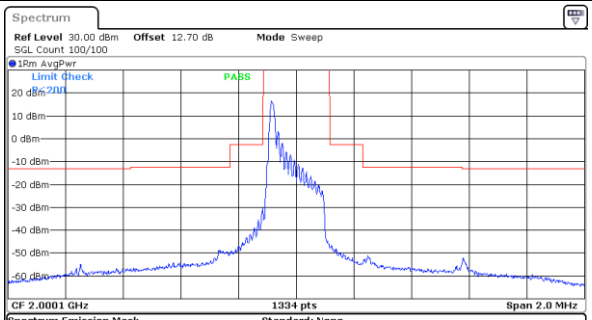


Highest Channel / 1SC11 / BPSK



Band 23 SCS 15kHz

Lowest Channel / 1SC0 / QPSK

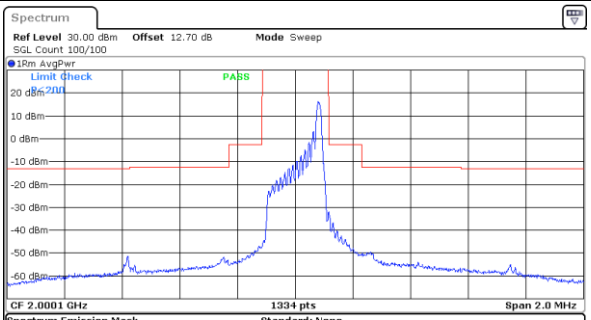


Spectrum Emission Mask Standard: None
Tx Power 22.49 dBm Tx Bandwidth 230.000 kHz RBW 3.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.000 MHz	-575.000 kHz	3.000 kHz	1.99935 GHz	-54.97 dBm	-77.45 dB	-41.97 dB
-575.000 kHz	-230.000 kHz	3.000 kHz	1.99983 GHz	-48.94 dBm	-71.43 dB	-36.43 dB
-230.000 kHz	-115.000 kHz	3.000 kHz	1.99998 GHz	-30.49 dBm	-52.98 dB	-27.98 dB
115.000 kHz	230.000 kHz	3.000 kHz	2.00022 GHz	-46.57 dBm	-69.06 dB	-44.06 dB
230.000 kHz	575.000 kHz	3.000 kHz	2.00035 GHz	-51.04 dBm	-73.53 dB	-38.53 dB
575.000 kHz	1.000 MHz	3.000 kHz	2.00068 GHz	-52.10 dBm	-74.59 dB	-39.10 dB

Date: 20.DEC.2025 00:10:28

Lowest Channel / 1SC11 / QPSK

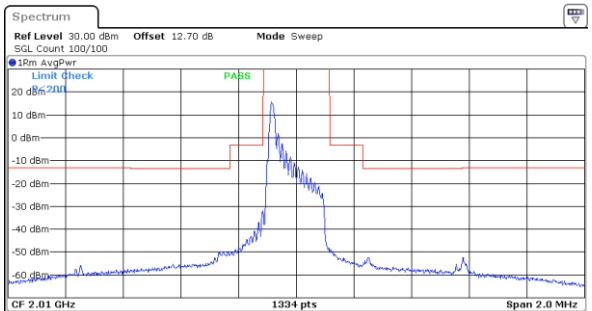


Spectrum Emission Mask Standard: None
Tx Power 22.42 dBm Tx Bandwidth 230.000 kHz RBW 3.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.000 MHz	-575.000 kHz	3.000 kHz	1.99952 GHz	-51.43 dBm	-73.85 dB	-38.43 dB
-575.000 kHz	-230.000 kHz	3.000 kHz	1.99985 GHz	-51.66 dBm	-74.08 dB	-39.08 dB
-230.000 kHz	-115.000 kHz	3.000 kHz	1.99997 GHz	-47.05 dBm	-69.47 dB	-44.47 dB
115.000 kHz	230.000 kHz	3.000 kHz	2.00022 GHz	-32.08 dBm	-54.50 dB	-29.50 dB
230.000 kHz	575.000 kHz	3.000 kHz	2.00036 GHz	-49.70 dBm	-72.12 dB	-37.12 dB
575.000 kHz	1.000 MHz	3.000 kHz	2.00085 GHz	-55.03 dBm	-77.45 dB	-42.03 dB

Date: 20.DEC.2025 00:11:23

Middle Channel / 1SC0 / QPSK

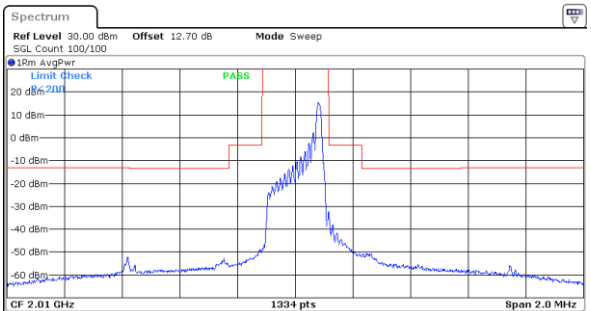


Spectrum Emission Mask Standard: None
Tx Power 21.68 dBm Tx Bandwidth 230.000 kHz RBW 3.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.000 MHz	-575.000 kHz	3.000 kHz	2.00925 GHz	-55.82 dBm	-77.49 dB	-42.82 dB
-575.000 kHz	-230.000 kHz	3.000 kHz	2.00973 GHz	-50.00 dBm	-71.68 dB	-36.68 dB
-230.000 kHz	-115.000 kHz	3.000 kHz	2.00988 GHz	-31.87 dBm	-53.55 dB	-28.55 dB
115.000 kHz	230.000 kHz	3.000 kHz	2.01012 GHz	-48.79 dBm	-70.47 dB	-45.47 dB
230.000 kHz	575.000 kHz	3.000 kHz	2.01025 GHz	-52.35 dBm	-74.03 dB	-39.03 dB
575.000 kHz	1.000 MHz	3.000 kHz	2.01058 GHz	-52.29 dBm	-73.97 dB	-39.29 dB

Date: 20.DEC.2025 00:35:08

Middle Channel / 1SC11 / QPSK

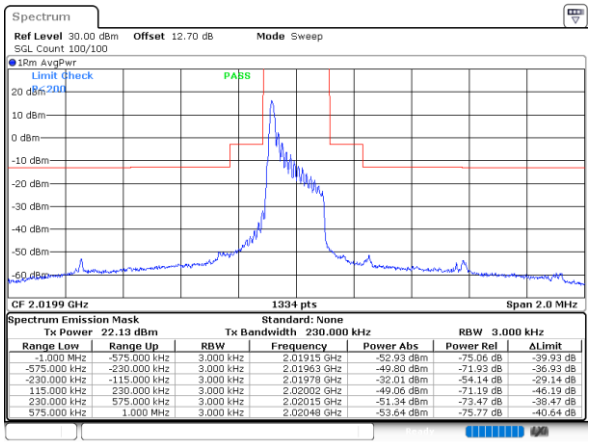


Spectrum Emission Mask Standard: None
Tx Power 21.62 dBm Tx Bandwidth 230.000 kHz RBW 3.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.000 MHz	-575.000 kHz	3.000 kHz	2.00942 GHz	-52.04 dBm	-73.66 dB	-39.04 dB
-575.000 kHz	-230.000 kHz	3.000 kHz	2.00975 GHz	-52.66 dBm	-74.28 dB	-39.28 dB
-230.000 kHz	-115.000 kHz	3.000 kHz	2.00988 GHz	-48.95 dBm	-70.57 dB	-45.57 dB
115.000 kHz	230.000 kHz	3.000 kHz	2.01012 GHz	-32.43 dBm	-54.05 dB	-29.05 dB
230.000 kHz	575.000 kHz	3.000 kHz	2.01026 GHz	-50.43 dBm	-72.05 dB	-37.05 dB
575.000 kHz	1.000 MHz	3.000 kHz	2.01074 GHz	-55.87 dBm	-77.49 dB	-42.87 dB

Date: 20.DEC.2025 00:36:57

Highest Channel / 1SC0 / QPSK

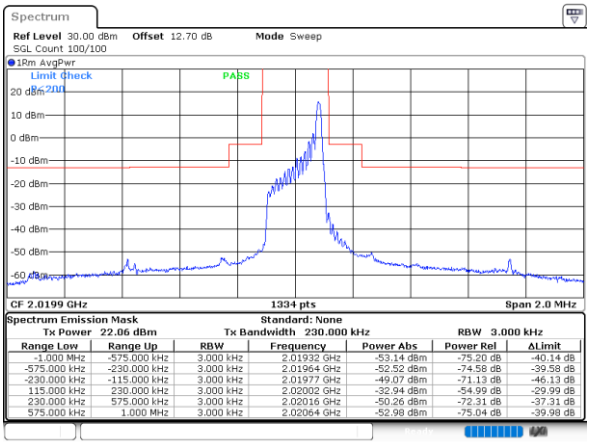


Spectrum Emission Mask Standard: None
Tx Power 22.13 dBm Tx Bandwidth 230.000 kHz RBW 3.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.000 MHz	-575.000 kHz	3.000 kHz	2.01915 GHz	-52.93 dBm	-75.06 dB	-39.93 dB
-575.000 kHz	-230.000 kHz	3.000 kHz	2.01963 GHz	-49.80 dBm	-71.93 dB	-36.93 dB
-230.000 kHz	-115.000 kHz	3.000 kHz	2.01978 GHz	-32.01 dBm	-54.14 dB	-29.14 dB
115.000 kHz	230.000 kHz	3.000 kHz	2.02002 GHz	-49.06 dBm	-71.19 dB	-46.19 dB
230.000 kHz	575.000 kHz	3.000 kHz	2.02015 GHz	-51.34 dBm	-73.47 dB	-38.47 dB
575.000 kHz	1.000 MHz	3.000 kHz	2.02048 GHz	-53.64 dBm	-75.77 dB	-40.64 dB

Date: 20.DEC.2025 01:20:20

Highest Channel / 1SC11 / QPSK



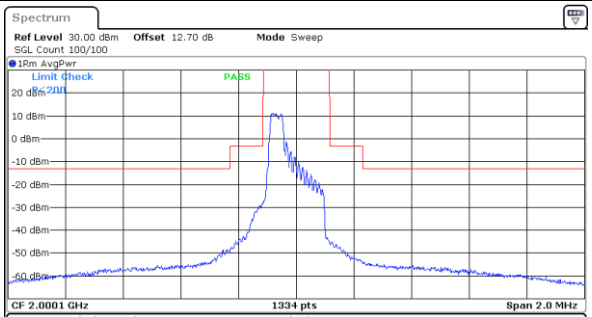
Spectrum Emission Mask Standard: None
Tx Power 22.06 dBm Tx Bandwidth 230.000 kHz RBW 3.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.000 MHz	-575.000 kHz	3.000 kHz	2.01932 GHz	-53.14 dBm	-75.20 dB	-40.14 dB
-575.000 kHz	-230.000 kHz	3.000 kHz	2.01964 GHz	-52.52 dBm	-74.58 dB	-39.58 dB
-230.000 kHz	-115.000 kHz	3.000 kHz	2.01977 GHz	-49.07 dBm	-71.13 dB	-46.13 dB
115.000 kHz	230.000 kHz	3.000 kHz	2.02002 GHz	-32.94 dBm	-54.99 dB	-29.99 dB
230.000 kHz	575.000 kHz	3.000 kHz	2.02016 GHz	-50.26 dBm	-72.31 dB	-37.31 dB
575.000 kHz	1.000 MHz	3.000 kHz	2.02064 GHz	-52.98 dBm	-75.04 dB	-39.98 dB

Date: 20.DEC.2025 01:22:29

Band 23 SCS 15kHz

Lowest Channel / 3SC0 / QPSK

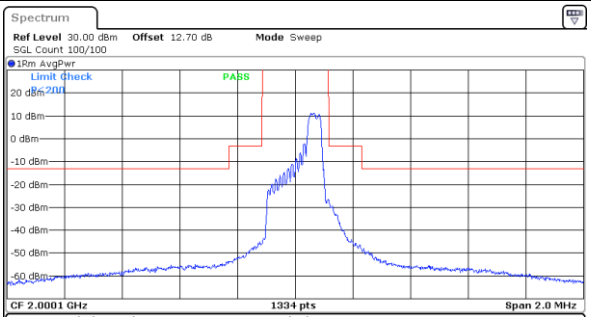


Spectrum Emission Mask Standard: None
Tx Power 21.85 dBm Tx Bandwidth 230.000 kHz RBW 3.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.000 MHz	-575.000 kHz	3.000 kHz	1.99952 GHz	-56.62 dBm	-78.47 dB	-43.62 dB
-575.000 kHz	-230.000 kHz	3.000 kHz	1.99986 GHz	-48.44 dBm	-70.29 dB	-35.29 dB
-230.000 kHz	-115.000 kHz	3.000 kHz	1.99998 GHz	-28.17 dBm	-50.02 dB	-25.02 dB
115.000 kHz	230.000 kHz	3.000 kHz	2.00022 GHz	-45.08 dBm	-66.94 dB	-41.94 dB
230.000 kHz	575.000 kHz	3.000 kHz	2.00033 GHz	-53.94 dBm	-75.79 dB	-40.79 dB
575.000 kHz	1.000 MHz	3.000 kHz	2.00068 GHz	-57.07 dBm	-78.92 dB	-44.07 dB

Date: 20.DEC.2025 00:12:15

Lowest Channel / 3SC9 / QPSK

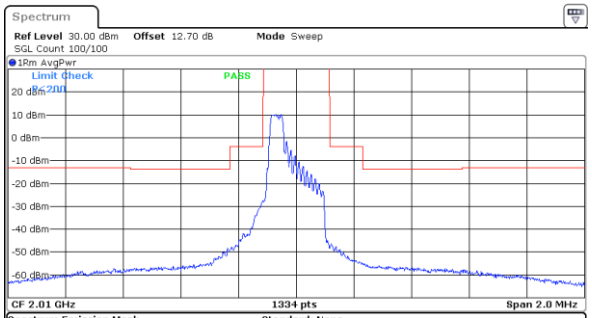


Spectrum Emission Mask Standard: None
Tx Power 21.79 dBm Tx Bandwidth 230.000 kHz RBW 3.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.000 MHz	-575.000 kHz	3.000 kHz	1.99952 GHz	-57.25 dBm	-79.04 dB	-44.25 dB
-575.000 kHz	-230.000 kHz	3.000 kHz	1.99987 GHz	-53.63 dBm	-75.42 dB	-40.42 dB
-230.000 kHz	-115.000 kHz	3.000 kHz	1.99998 GHz	-45.00 dBm	-66.80 dB	-41.80 dB
115.000 kHz	230.000 kHz	3.000 kHz	2.00022 GHz	-26.89 dBm	-48.69 dB	-23.69 dB
230.000 kHz	575.000 kHz	3.000 kHz	2.00034 GHz	-47.89 dBm	-69.69 dB	-34.69 dB
575.000 kHz	1.000 MHz	3.000 kHz	2.00069 GHz	-56.46 dBm	-78.26 dB	-43.46 dB

Date: 20.DEC.2025 00:13:18

Middle Channel / 3SC0 / QPSK

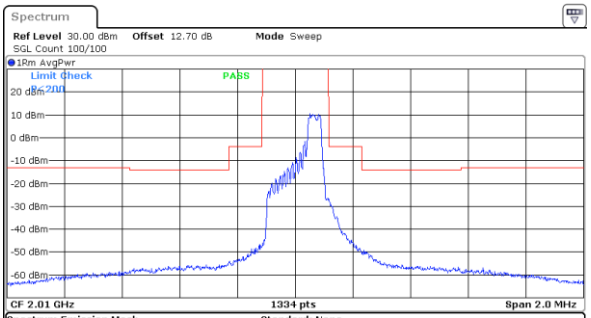


Spectrum Emission Mask Standard: None
Tx Power 21.11 dBm Tx Bandwidth 230.000 kHz RBW 3.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.000 MHz	-575.000 kHz	3.000 kHz	2.00937 GHz	-57.26 dBm	-78.37 dB	-44.26 dB
-575.000 kHz	-230.000 kHz	3.000 kHz	2.00976 GHz	-48.22 dBm	-69.33 dB	-34.33 dB
-230.000 kHz	-115.000 kHz	3.000 kHz	2.00988 GHz	-27.49 dBm	-48.60 dB	-23.60 dB
115.000 kHz	230.000 kHz	3.000 kHz	2.01012 GHz	-46.25 dBm	-67.36 dB	-42.36 dB
230.000 kHz	575.000 kHz	3.000 kHz	2.01023 GHz	-55.14 dBm	-76.25 dB	-41.25 dB
575.000 kHz	1.000 MHz	3.000 kHz	2.01058 GHz	-57.78 dBm	-78.89 dB	-44.78 dB

Date: 20.DEC.2025 00:38:59

Middle Channel / 3SC9 / QPSK

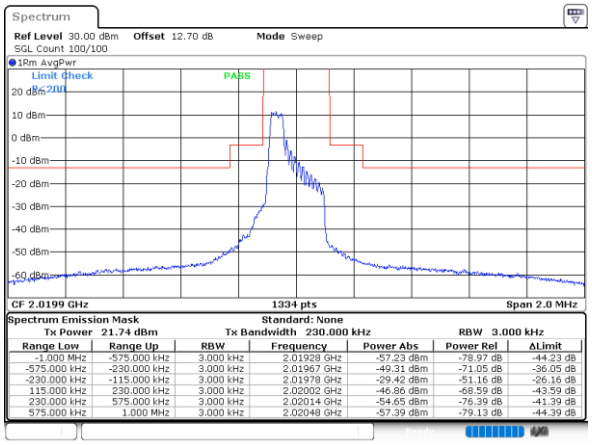


Spectrum Emission Mask Standard: None
Tx Power 20.99 dBm Tx Bandwidth 230.000 kHz RBW 3.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.000 MHz	-575.000 kHz	3.000 kHz	2.00939 GHz	-58.48 dBm	-79.47 dB	-45.48 dB
-575.000 kHz	-230.000 kHz	3.000 kHz	2.00977 GHz	-54.44 dBm	-75.42 dB	-40.42 dB
-230.000 kHz	-115.000 kHz	3.000 kHz	2.00988 GHz	-46.82 dBm	-67.81 dB	-42.81 dB
115.000 kHz	230.000 kHz	3.000 kHz	2.01012 GHz	-26.84 dBm	-47.82 dB	-22.82 dB
230.000 kHz	575.000 kHz	3.000 kHz	2.01024 GHz	-49.22 dBm	-70.21 dB	-35.21 dB
575.000 kHz	1.000 MHz	3.000 kHz	2.01065 GHz	-57.01 dBm	-77.99 dB	-44.01 dB

Date: 20.DEC.2025 00:40:49

Highest Channel / 3SC0 / QPSK

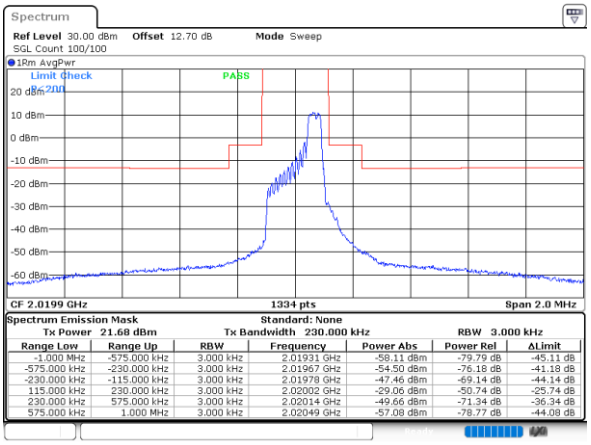


Spectrum Emission Mask Standard: None
Tx Power 21.74 dBm Tx Bandwidth 230.000 kHz RBW 3.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.000 MHz	-575.000 kHz	3.000 kHz	2.01928 GHz	-57.23 dBm	-78.97 dB	-44.23 dB
-575.000 kHz	-230.000 kHz	3.000 kHz	2.01967 GHz	-49.31 dBm	-71.05 dB	-36.05 dB
-230.000 kHz	-115.000 kHz	3.000 kHz	2.01978 GHz	-29.42 dBm	-51.16 dB	-26.16 dB
115.000 kHz	230.000 kHz	3.000 kHz	2.02002 GHz	-46.86 dBm	-68.59 dB	-43.59 dB
230.000 kHz	575.000 kHz	3.000 kHz	2.02014 GHz	-54.65 dBm	-76.39 dB	-41.39 dB
575.000 kHz	1.000 MHz	3.000 kHz	2.02048 GHz	-57.39 dBm	-79.13 dB	-44.39 dB

Date: 20.DEC.2025 01:26:45

Highest Channel / 3SC9 / QPSK



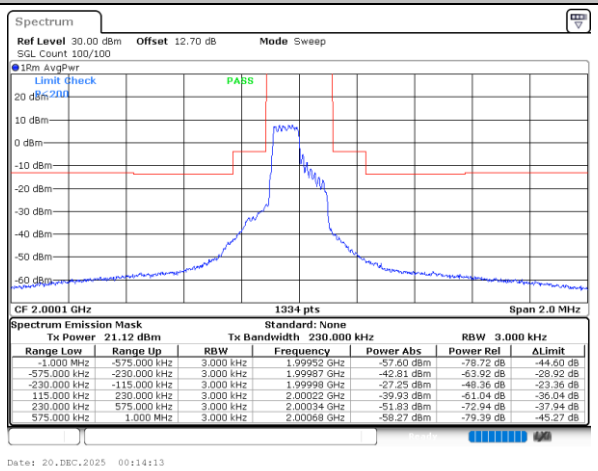
Spectrum Emission Mask Standard: None
Tx Power 21.68 dBm Tx Bandwidth 230.000 kHz RBW 3.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.000 MHz	-575.000 kHz	3.000 kHz	2.01931 GHz	-58.11 dBm	-79.79 dB	-45.11 dB
-575.000 kHz	-230.000 kHz	3.000 kHz	2.01967 GHz	-54.50 dBm	-76.18 dB	-41.18 dB
-230.000 kHz	-115.000 kHz	3.000 kHz	2.01978 GHz	-47.46 dBm	-69.14 dB	-44.14 dB
115.000 kHz	230.000 kHz	3.000 kHz	2.02002 GHz	-29.06 dBm	-50.74 dB	-25.74 dB
230.000 kHz	575.000 kHz	3.000 kHz	2.02014 GHz	-49.66 dBm	-71.34 dB	-36.34 dB
575.000 kHz	1.000 MHz	3.000 kHz	2.02049 GHz	-57.08 dBm	-78.77 dB	-44.08 dB

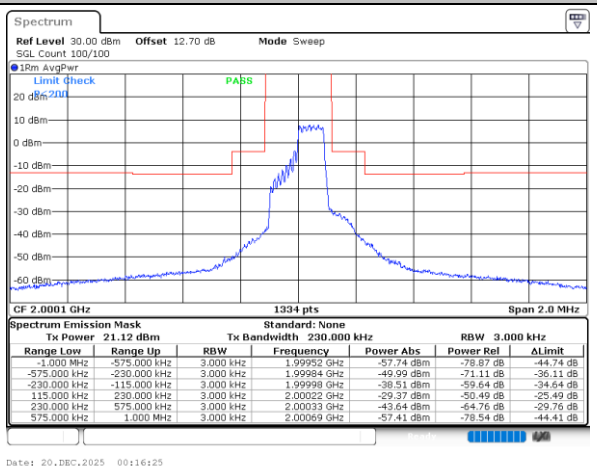
Date: 20.DEC.2025 01:29:20

Band 23 SCS 15kHz

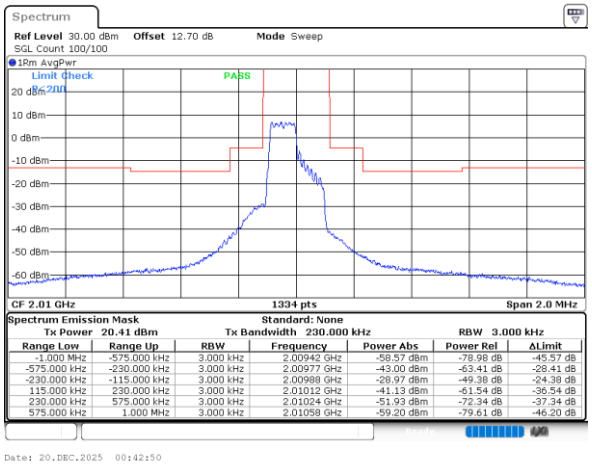
Lowest Channel / 6SC0 / QPSK



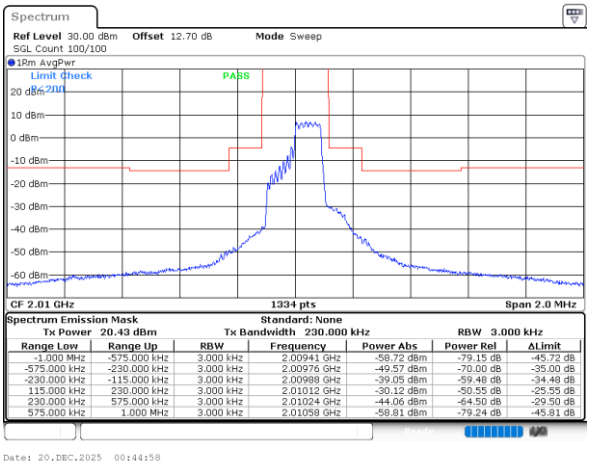
Lowest Channel / 6SC6 / QPSK



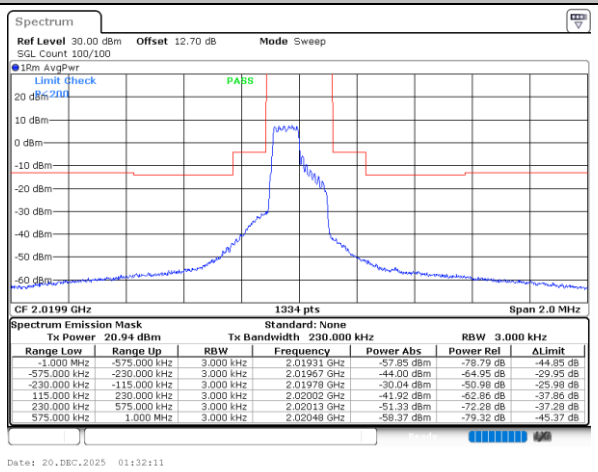
Middle Channel / 6SC0 / QPSK



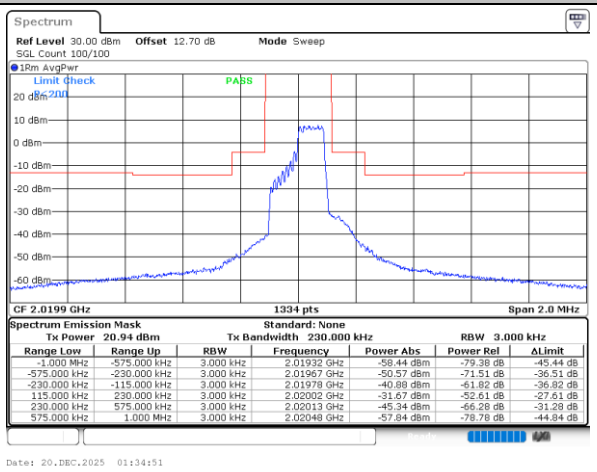
Middle Channel / 6SC6 / QPSK



Highest Channel / 6SC0 / QPSK

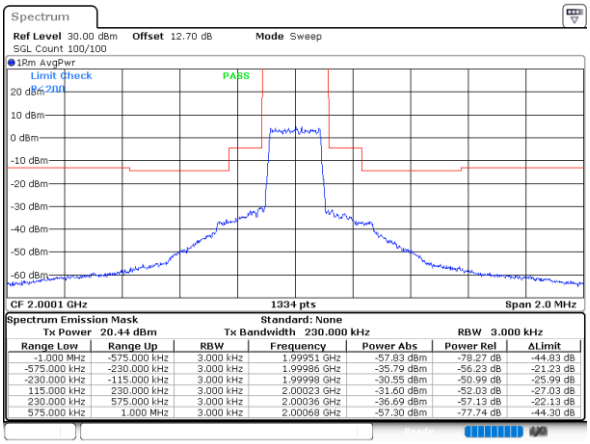


Highest Channel / 6SC6 / QPSK

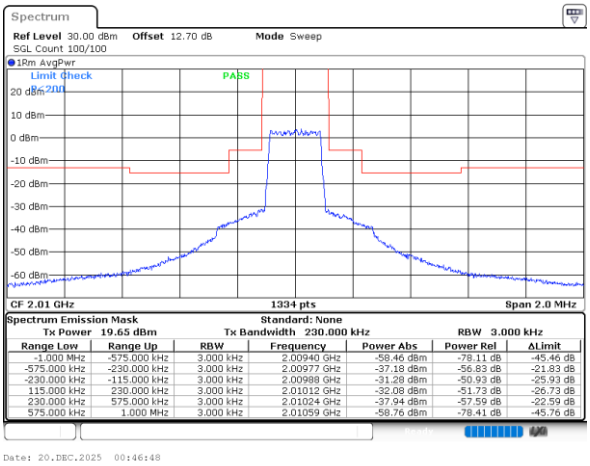


Band 23 SCS 15kHz

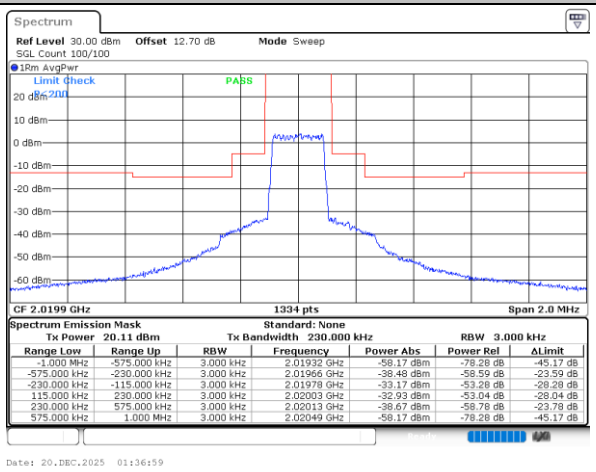
Lowest Channel / 12SC0 / QPSK



Middle Channel / 12SC0 / QPSK



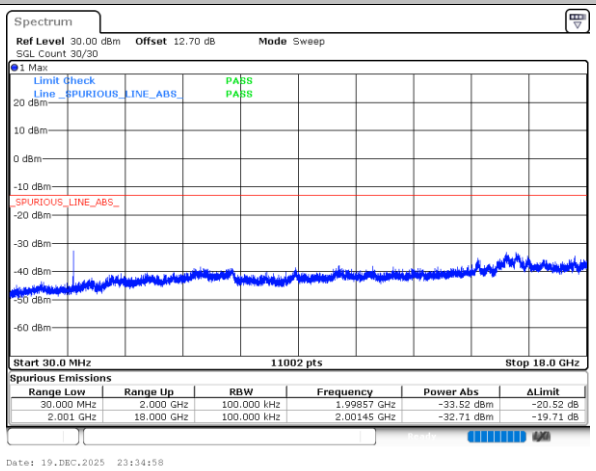
Highest Channel / 12SC0 / QPSK



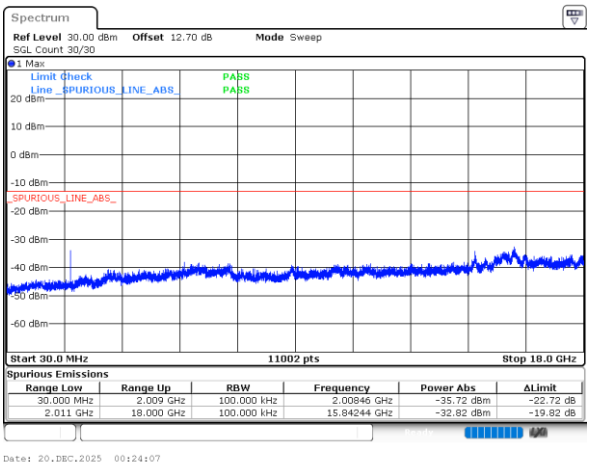
Conducted Spurious Emission

Band 23 SCS 3.75kHz

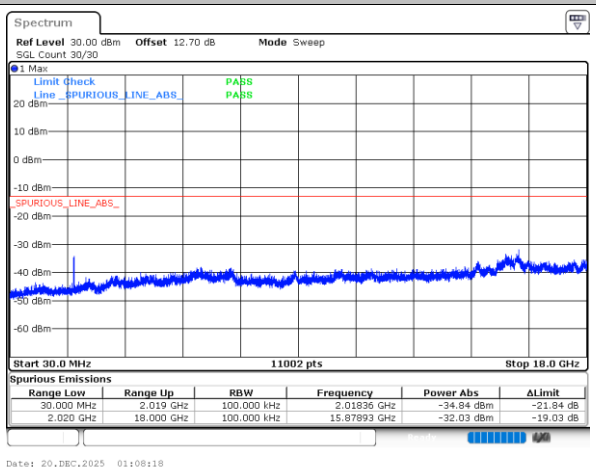
Lowest Channel / 1SC0 / QPSK



Middle Channel / 1SC0 / QPSK



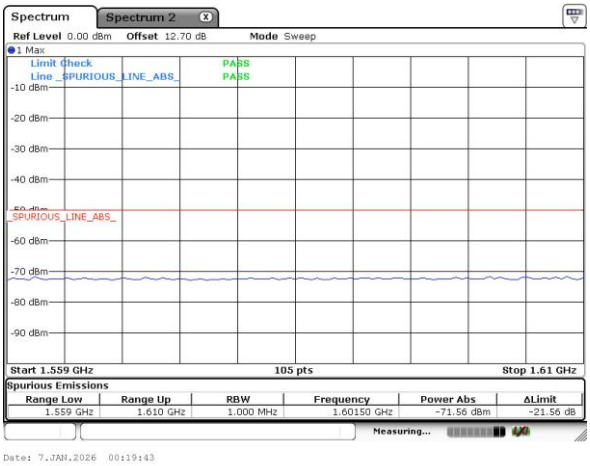
Highest Channel / 1SC0 / QPSK



Emission limits for protection of aeronautical service

Band 23

Carrier off



B23 Carrier off					
Measured Conducted Value (dBm/MHz)	Gain (dBi)	Measured EIRP Value (dBm/MHz)	Limt (dBm/MHz)	ΔLimit (dB)	Test Result
-71.56	-1.20	-72.76	-50.00	-22.76	Pass

B23 L CH 2000.1MHz Broadband								
SCS (kHz)	Modulation	SC Setting	Measured Conducted Value (dBm/MHz)	Gain (dBi)	Measured EIRP Value (dBm/MHz)	Limt (dBm/MHz)	ΔLimit (dB)	Test Result
3.75	BPSK	1SC0	-51.99	-1.20	-53.19	-40.00	-13.19	Pass
3.75	BPSK	1SC47	-51.82	-1.20	-53.02	-40.00	-13.02	Pass
3.75	QPSK	1SC0	-52.14	-1.20	-53.34	-40.00	-13.34	Pass
3.75	QPSK	1SC47	-51.91	-1.20	-53.11	-40.00	-13.11	Pass
15	BPSK	1SC0	-52.47	-1.20	-53.67	-40.00	-13.67	Pass
15	BPSK	1SC11	-52.19	-1.20	-53.39	-40.00	-13.39	Pass
15	QPSK	1SC0	-52.31	-1.20	-53.51	-40.00	-13.51	Pass
15	QPSK	1SC11	-52.14	-1.20	-53.34	-40.00	-13.34	Pass
15	QPSK	3SC0	-52.17	-1.20	-53.37	-40.00	-13.37	Pass
15	QPSK	3SC9	-52.25	-1.20	-53.45	-40.00	-13.45	Pass
15	QPSK	6SC0	-52.22	-1.20	-53.42	-40.00	-13.42	Pass
15	QPSK	6SC6	-52.05	-1.20	-53.25	-40.00	-13.25	Pass
15	QPSK	12SC0	-52.09	-1.20	-53.29	-40.00	-13.29	Pass

B23 M CH 2010MHz Broadband								
SCS (kHz)	Modulation	SC Setting	Measured Conducted Value (dBm/MHz)	Gain (dBi)	Measured EIRP Value (dBm/MHz)	Limt (dBm/MHz)	ΔLimit (dB)	Test Result
3.75	BPSK	1SC0	-52.38	-1.20	-53.58	-40.00	-13.58	Pass
3.75	BPSK	1SC47	-52.16	-1.20	-53.36	-40.00	-13.36	Pass
3.75	QPSK	1SC0	-52.17	-1.20	-53.37	-40.00	-13.37	Pass
3.75	QPSK	1SC47	-52.40	-1.20	-53.60	-40.00	-13.60	Pass
15	BPSK	1SC0	-52.18	-1.20	-53.38	-40.00	-13.38	Pass
15	BPSK	1SC11	-52.19	-1.20	-53.39	-40.00	-13.39	Pass
15	QPSK	1SC0	-52.18	-1.20	-53.38	-40.00	-13.38	Pass
15	QPSK	1SC11	-52.16	-1.20	-53.36	-40.00	-13.36	Pass
15	QPSK	3SC0	-51.90	-1.20	-53.10	-40.00	-13.10	Pass
15	QPSK	3SC9	-52.30	-1.20	-53.50	-40.00	-13.50	Pass
15	QPSK	6SC0	-52.24	-1.20	-53.44	-40.00	-13.44	Pass
15	QPSK	6SC6	-51.75	-1.20	-52.95	-40.00	-12.95	Pass
15	QPSK	12SC0	-52.01	-1.20	-53.21	-40.00	-13.21	Pass

B23 H CH 2019.9MHz Broadband								
SCS (kHz)	Modulation	SC Setting	Measured Conducted Value (dBm/MHz)	Gain (dBi)	Measured EIRP Value (dBm/MHz)	Limt (dBm/MHz)	ΔLimit (dB)	Test Result
3.75	BPSK	1SC0	-52.29	-1.20	-53.49	-40.00	-13.49	Pass
3.75	BPSK	1SC47	-52.28	-1.20	-53.48	-40.00	-13.48	Pass
3.75	QPSK	1SC0	-52.30	-1.20	-53.50	-40.00	-13.50	Pass
3.75	QPSK	1SC47	-52.27	-1.20	-53.47	-40.00	-13.47	Pass
15	BPSK	1SC0	-52.24	-1.20	-53.44	-40.00	-13.44	Pass
15	BPSK	1SC11	-51.91	-1.20	-53.11	-40.00	-13.11	Pass
15	QPSK	1SC0	-52.32	-1.20	-53.52	-40.00	-13.52	Pass
15	QPSK	1SC11	-51.83	-1.20	-53.03	-40.00	-13.03	Pass
15	QPSK	3SC0	-51.98	-1.20	-53.18	-40.00	-13.18	Pass
15	QPSK	3SC9	-52.36	-1.20	-53.56	-40.00	-13.56	Pass
15	QPSK	6SC0	-52.16	-1.20	-53.36	-40.00	-13.36	Pass
15	QPSK	6SC6	-52.36	-1.20	-53.56	-40.00	-13.56	Pass
15	QPSK	12SC0	-52.11	-1.20	-53.31	-40.00	-13.31	Pass

Remark: The max hold trace is used initially. If the result of the max hold trace fails, then the plot will be zoomed in on the frequency with the worst signal, and the average trace will be used.

B23 L CH 2000.1MHz Discrete								
SCS (kHz)	Modulation	SC Setting	Measured Conducted Value (dBm/30kHz)	Gain (dBi)	Measured EIRP Value (dBm/30kHz)	Limt (dBm/kHz)	ΔLimit (dB)	Test Result
3.75	BPSK	1SC0	-58.44	-1.20	-59.64	-50.00	-9.64	Pass
3.75	BPSK	1SC47	-58.44	-1.20	-59.64	-50.00	-9.64	Pass
3.75	QPSK	1SC0	-59.06	-1.20	-60.26	-50.00	-10.26	Pass
3.75	QPSK	1SC47	-58.94	-1.20	-60.14	-50.00	-10.14	Pass
15	BPSK	1SC0	-59.28	-1.20	-60.48	-50.00	-10.48	Pass
15	BPSK	1SC11	-59.19	-1.20	-60.39	-50.00	-10.39	Pass
15	QPSK	1SC0	-59.10	-1.20	-60.30	-50.00	-10.30	Pass
15	QPSK	1SC11	-59.25	-1.20	-60.45	-50.00	-10.45	Pass
15	QPSK	3SC0	-59.22	-1.20	-60.42	-50.00	-10.42	Pass
15	QPSK	3SC9	-59.39	-1.20	-60.59	-50.00	-10.59	Pass
15	QPSK	6SC0	-58.89	-1.20	-60.09	-50.00	-10.09	Pass
15	QPSK	6SC6	-59.25	-1.20	-60.45	-50.00	-10.45	Pass
15	QPSK	12SC0	-58.98	-1.20	-60.18	-50.00	-10.18	Pass

B23 M CH 2010MHz Discrete								
SCS (kHz)	Modulation	SC Setting	Measured Conducted Value (dBm/30kHz)	Gain (dBi)	Measured EIRP Value (dBm/30kHz)	Limt (dBm/kHz)	ΔLimit (dB)	Test Result
3.75	BPSK	1SC0	-59.04	-1.20	-60.24	-50.00	-10.24	Pass
3.75	BPSK	1SC47	-58.54	-1.20	-59.74	-50.00	-9.74	Pass
3.75	QPSK	1SC0	-59.23	-1.20	-60.43	-50.00	-10.43	Pass
3.75	QPSK	1SC47	-59.03	-1.20	-60.23	-50.00	-10.23	Pass
15	BPSK	1SC0	-59.04	-1.20	-60.24	-50.00	-10.24	Pass
15	BPSK	1SC11	-58.58	-1.20	-59.78	-50.00	-9.78	Pass
15	QPSK	1SC0	-57.85	-1.20	-59.05	-50.00	-9.05	Pass
15	QPSK	1SC11	-59.11	-1.20	-60.31	-50.00	-10.31	Pass
15	QPSK	3SC0	-59.29	-1.20	-60.49	-50.00	-10.49	Pass
15	QPSK	3SC9	-59.18	-1.20	-60.38	-50.00	-10.38	Pass
15	QPSK	6SC0	-58.75	-1.20	-59.95	-50.00	-9.95	Pass
15	QPSK	6SC6	-58.39	-1.20	-59.59	-50.00	-9.59	Pass
15	QPSK	12SC0	-58.92	-1.20	-60.12	-50.00	-10.12	Pass

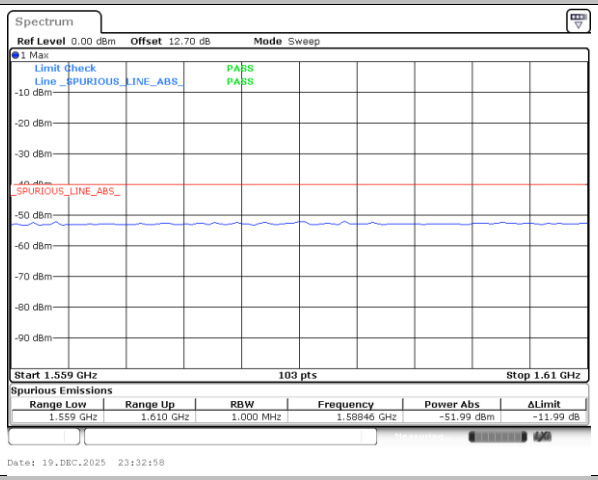
B23 H CH 2019.9MHz Discrete								
SCS (kHz)	Modulation	SC Setting	Measured Conducted Value (dBm/30kHz)	Gain (dBi)	Measured EIRP Value (dBm/30kHz)	Limt (dBm/kHz)	ΔLimit (dB)	Test Result
3.75	BPSK	1SC0	-58.75	-1.20	-59.95	-50.00	-9.95	Pass
3.75	BPSK	1SC47	-58.46	-1.20	-59.66	-50.00	-9.66	Pass
3.75	QPSK	1SC0	-58.30	-1.20	-59.50	-50.00	-9.50	Pass
3.75	QPSK	1SC47	-59.15	-1.20	-60.35	-50.00	-10.35	Pass
15	BPSK	1SC0	-59.11	-1.20	-60.31	-50.00	-10.31	Pass
15	BPSK	1SC11	-59.20	-1.20	-60.40	-50.00	-10.40	Pass
15	QPSK	1SC0	-58.49	-1.20	-59.69	-50.00	-9.69	Pass
15	QPSK	1SC11	-59.06	-1.20	-60.26	-50.00	-10.26	Pass
15	QPSK	3SC0	-59.09	-1.20	-60.29	-50.00	-10.29	Pass
15	QPSK	3SC9	-58.79	-1.20	-59.99	-50.00	-9.99	Pass
15	QPSK	6SC0	-58.76	-1.20	-59.96	-50.00	-9.96	Pass
15	QPSK	6SC6	-58.95	-1.20	-60.15	-50.00	-10.15	Pass
15	QPSK	12SC0	-58.58	-1.20	-59.78	-50.00	-9.78	Pass

Remark: The RBW is set to 30 kHz initially. If the result of the RBW 30 kHz fails, then the plot will be zoomed in on the frequency with the worst signal, and the RBW will be set to 1 kHz.

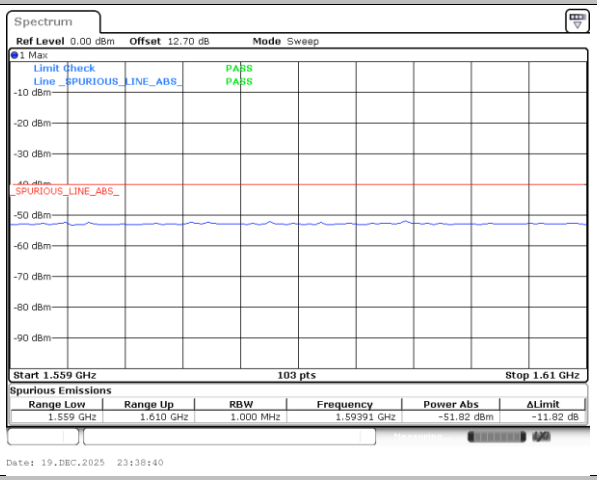
Band 23 SCS 3.75kHz

Broadband

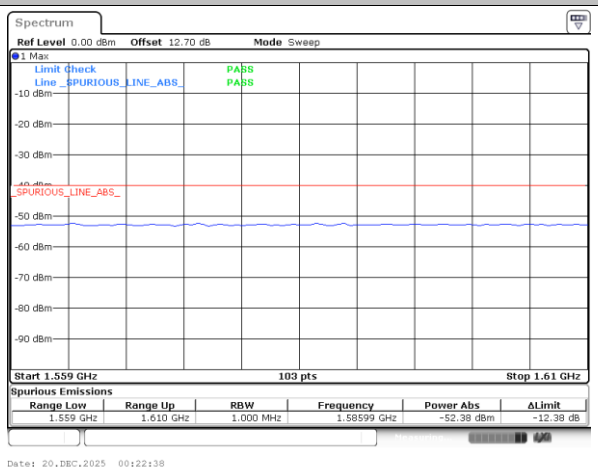
Lowest Channel / 1SC0 BPSK



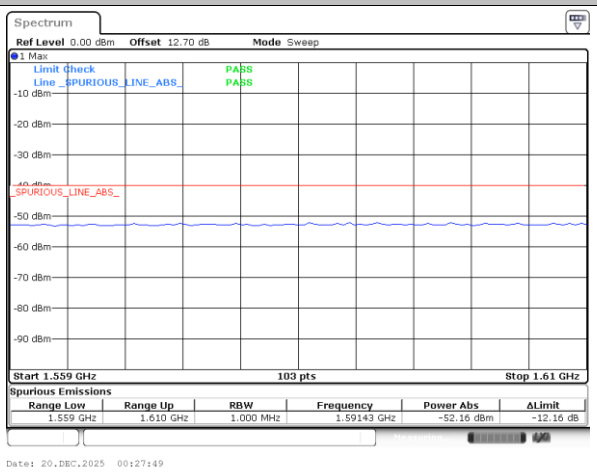
Lowest Channel / 1SC47 BPSK



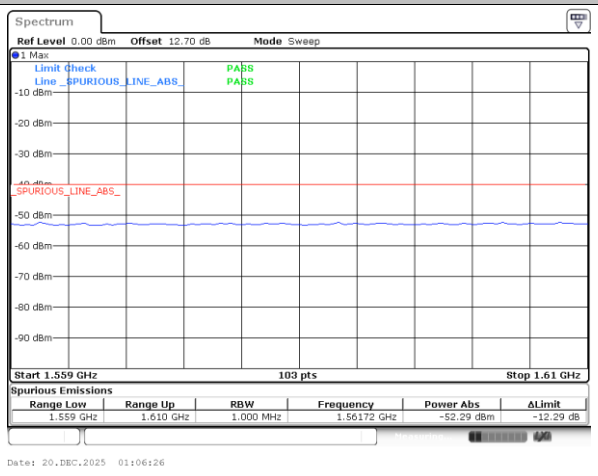
Middle Channel / 1SC0 BPSK



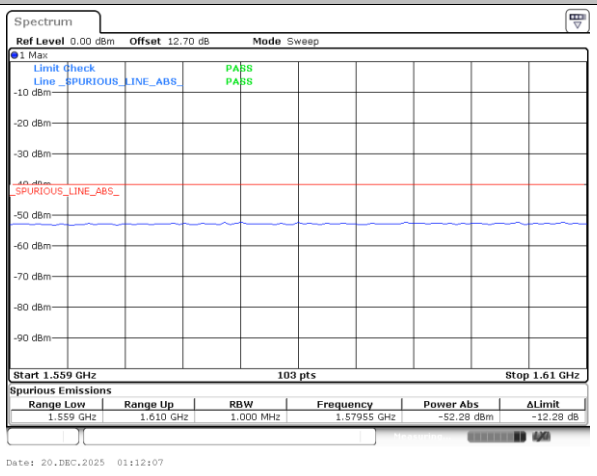
Middle Channel / 1SC47 BPSK



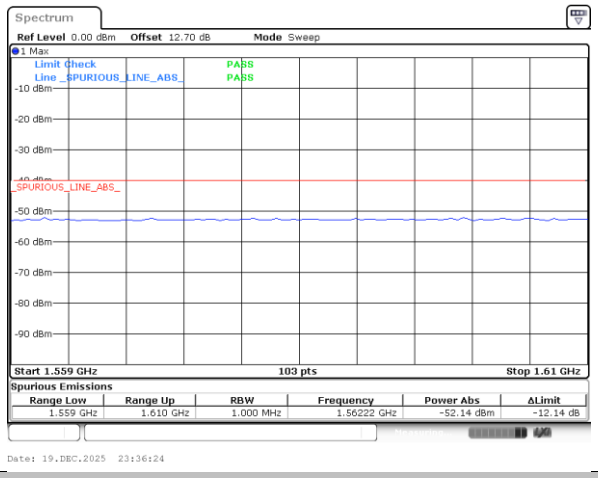
Highest Channel / 1SC0 BPSK



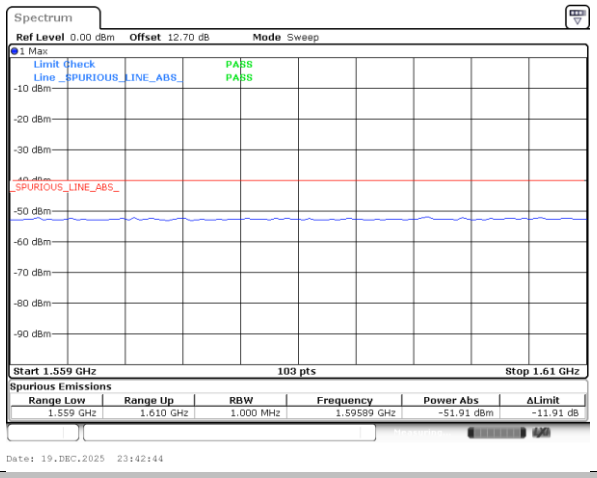
Highest Channel / 1SC47 BPSK



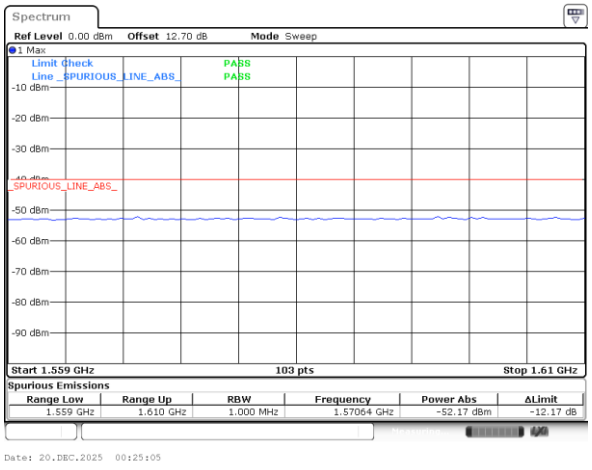
Lowest Channel / 1SC0 QPSK	Lowest Channel / 1SC47 QPSK



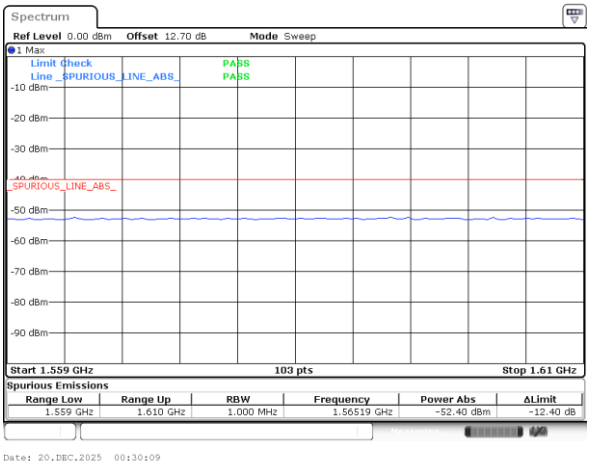
Middle Channel / 1SC0 QPSK



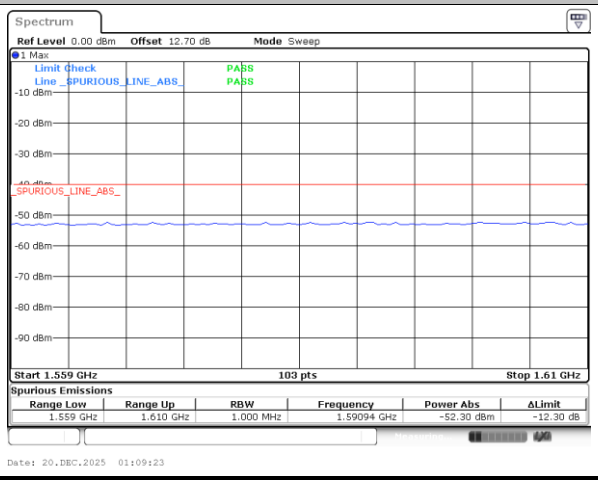
Middle Channel / 1SC47 QPSK

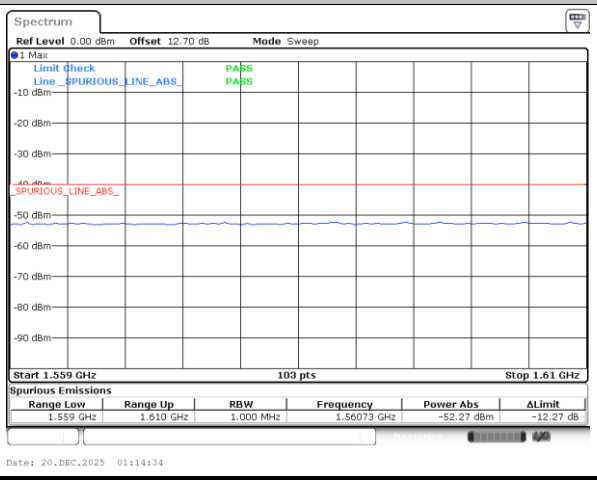


Highest Channel / 1SC0 QPSK



Highest Channel / 1SC47 QPSK

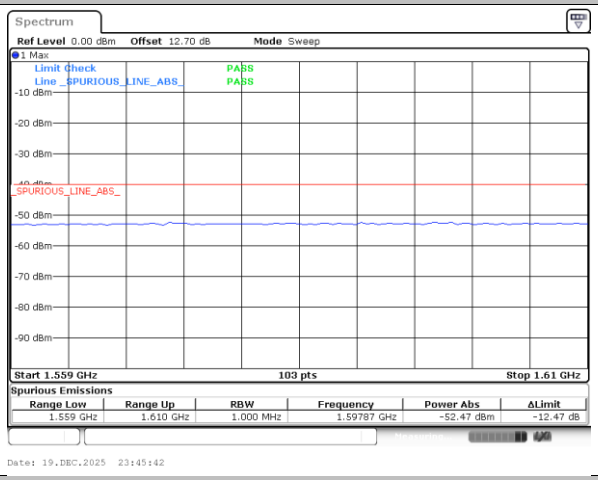




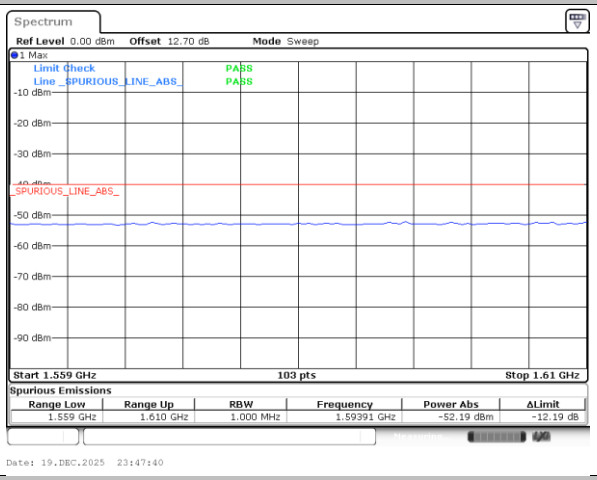
Band 23 SCS 15kHz

Broadband

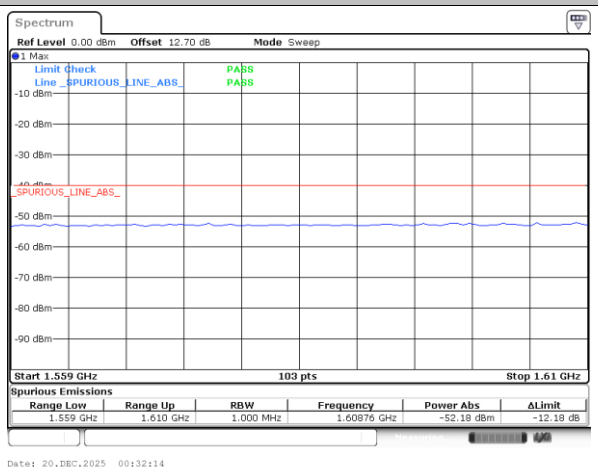
Lowest Channel / 1SC0 BPSK



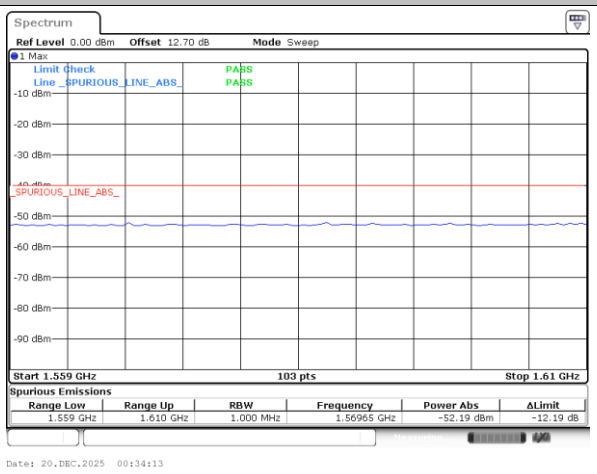
Lowest Channel / 1SC11 BPSK



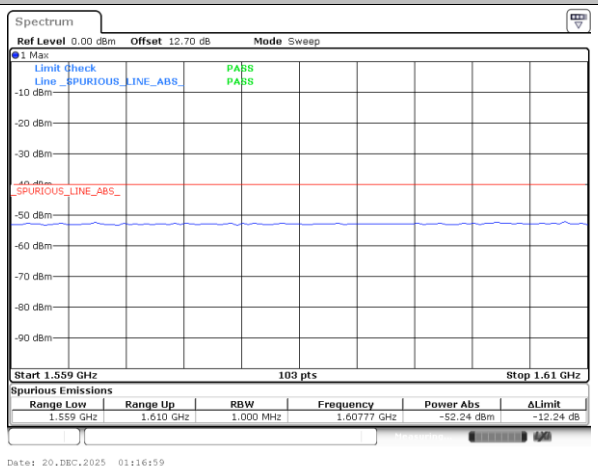
Middle Channel / 1SC0 BPSK



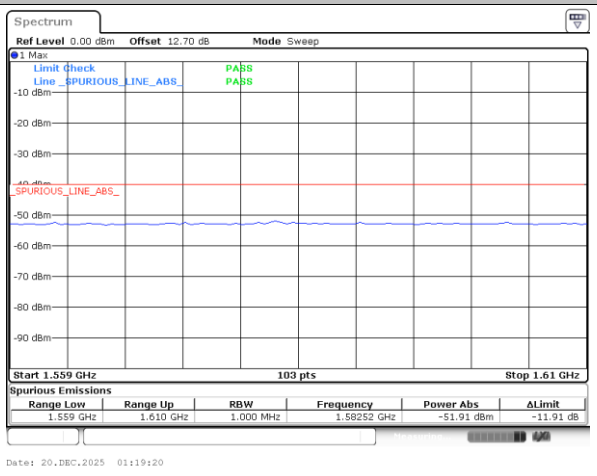
Middle Channel / 1SC11 BPSK



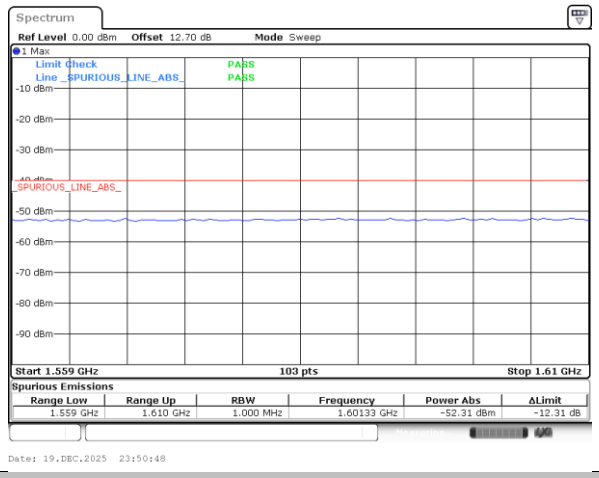
Highest Channel / 1SC0 BPSK



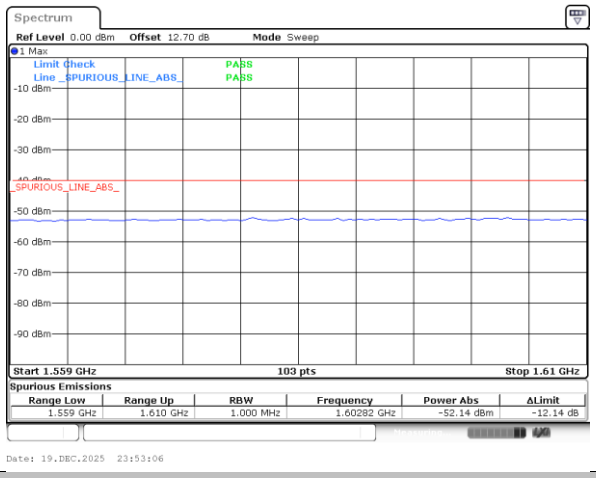
Highest Channel / 1SC11 BPSK



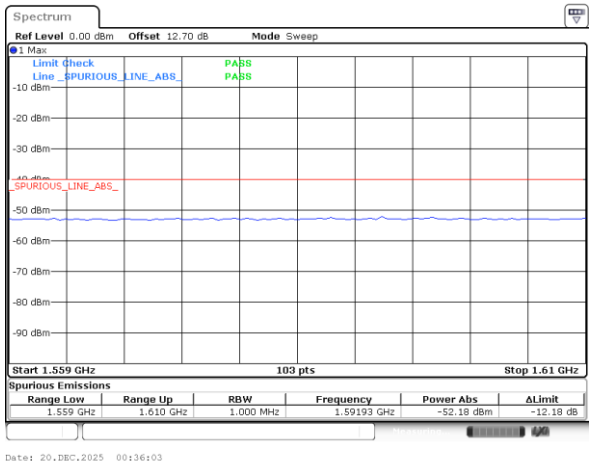
Lowest Channel / 1SC0 QPSK	Lowest Channel / 1SC11 QPSK



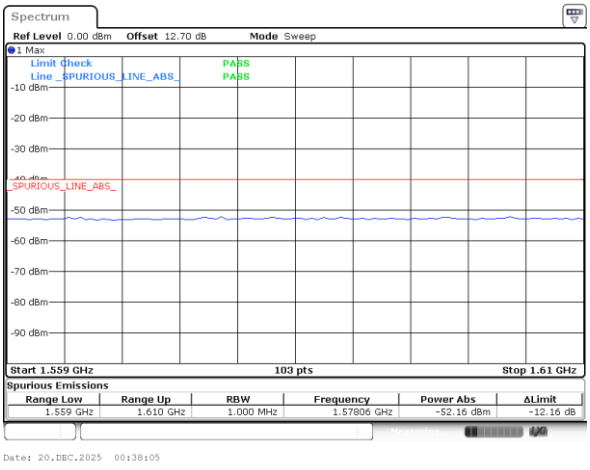
Middle Channel / 1SC0 QPSK



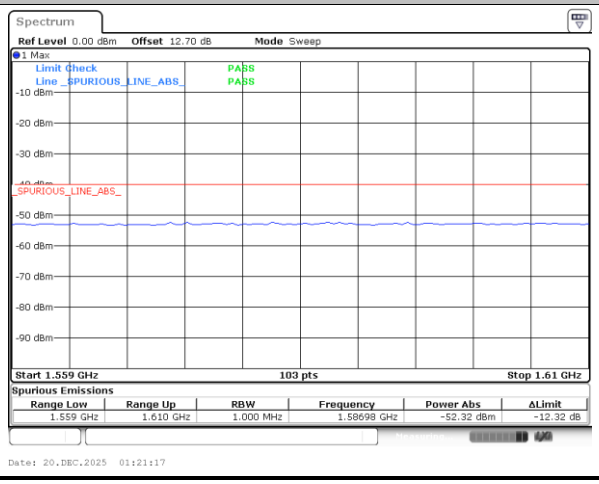
Middle Channel / 1SC11 QPSK

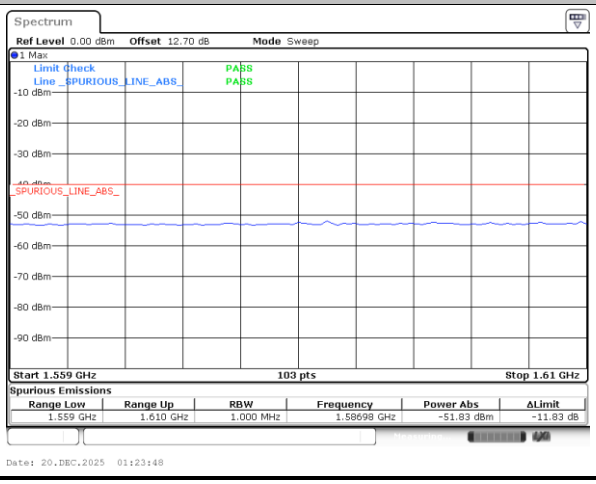


Highest Channel / 1SC0 QPSK

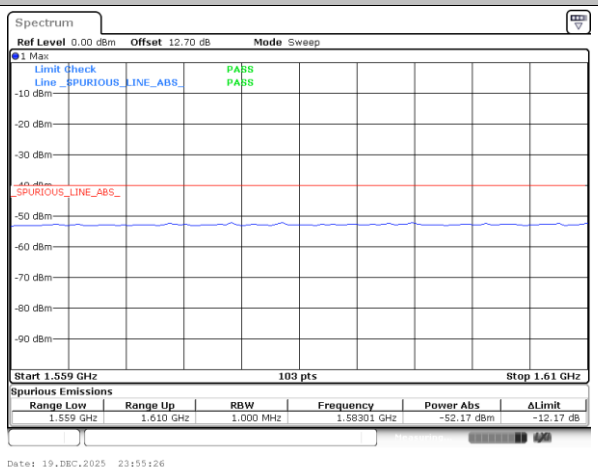


Highest Channel / 1SC11 QPSK



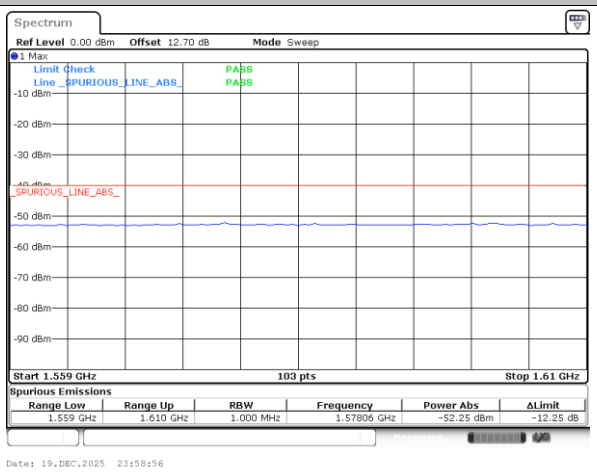


Lowest Channel / 3SC0 QPSK



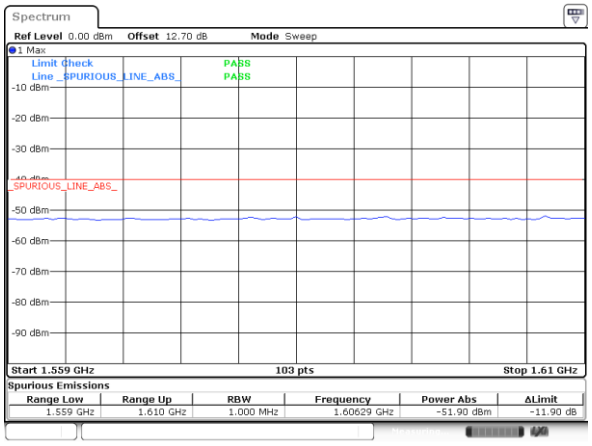
Date: 19.DEC.2025 23:55:26

Lowest Channel / 3SC9 QPSK



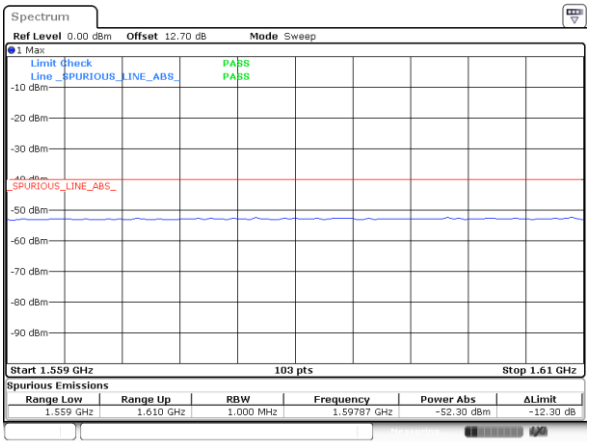
Date: 19.DEC.2025 23:58:56

Middle Channel / 3SC0 QPSK



Date: 20.DEC.2025 00:39:54

Middle Channel / 3SC9 QPSK



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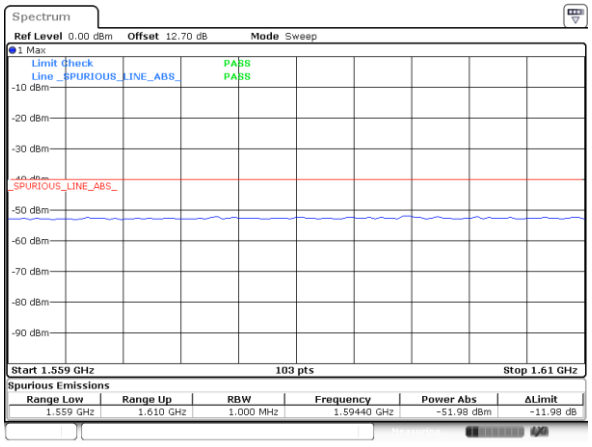
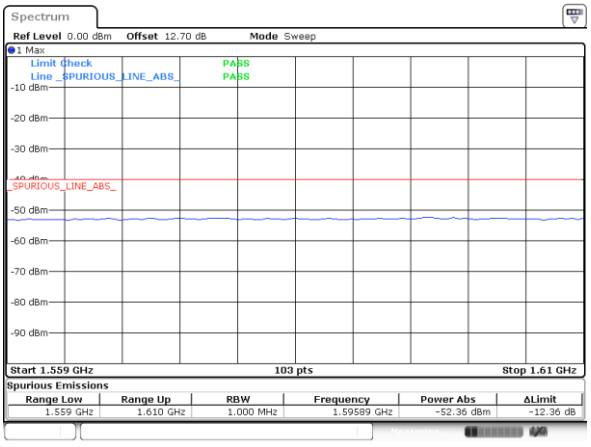
Highest Channel / 3SC0 QPSK



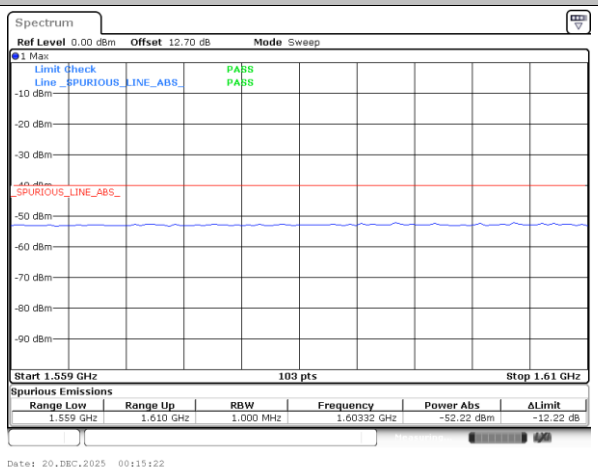
Date: 20.DEC.2025 01:28:22

Highest Channel / 3SC9 QPSK



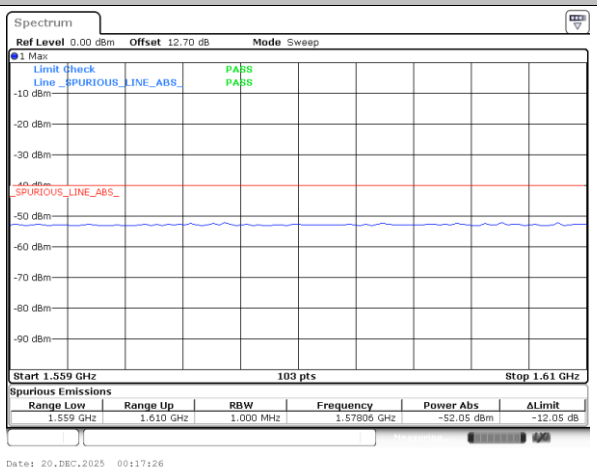
Date: 20.DEC.2025 01:31:14

Lowest Channel / 6SC0 QPSK



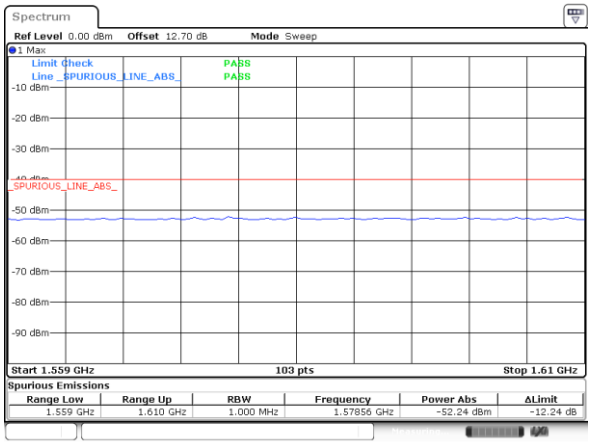
Date: 20.DEC.2025 00:15:22

Lowest Channel / 6SC6 QPSK



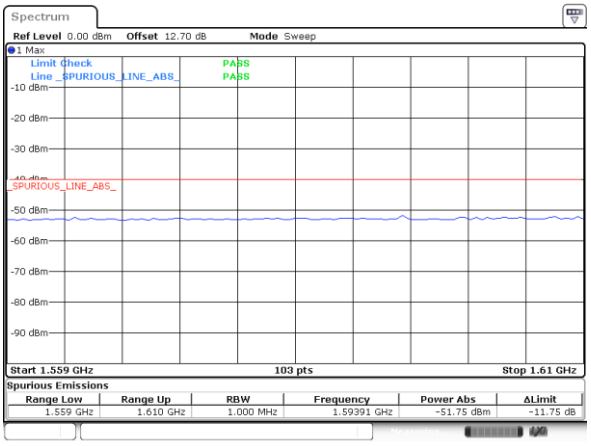
Date: 20.DEC.2025 00:17:26

Middle Channel / 6SC0 QPSK



Date: 20.DEC.2025 00:43:52

Middle Channel / 6SC6 QPSK



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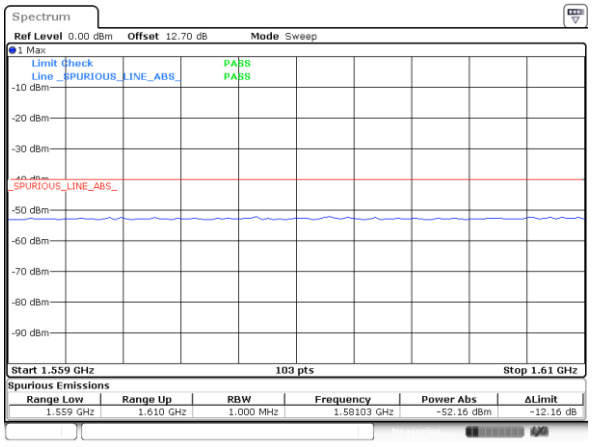
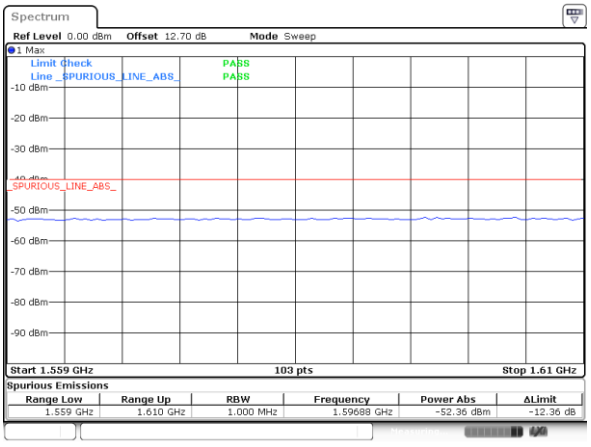
Highest Channel / 6SC0 QPSK



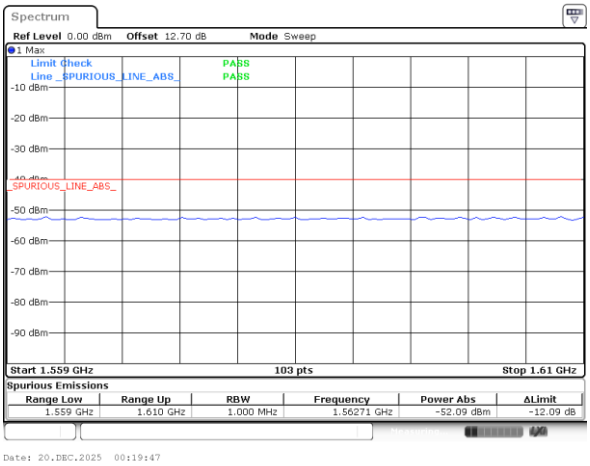
Date: 20.DEC.2025 01:33:47

Highest Channel / 6SC6 QPSK

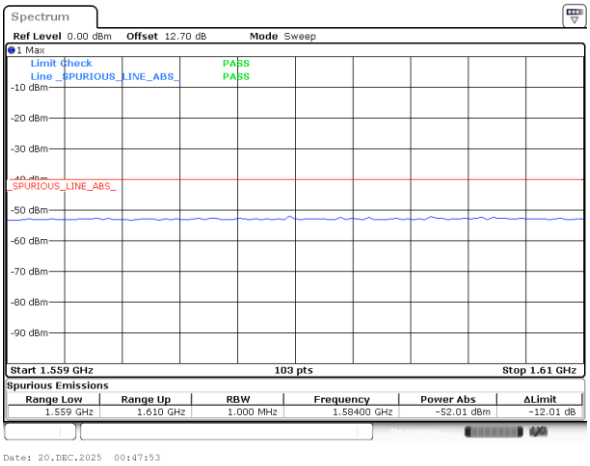


Date: 20.DEC.2025 01:35:59

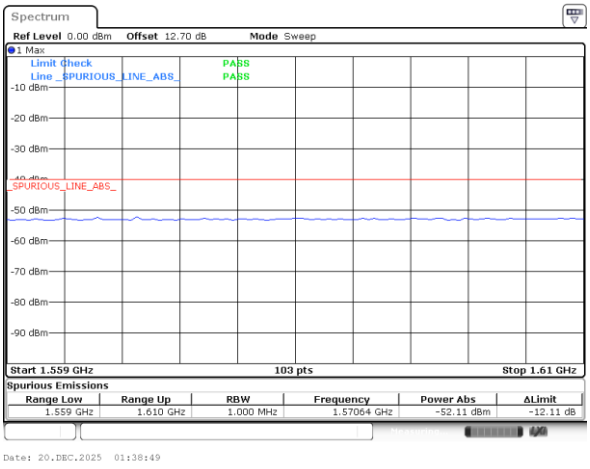
Lowest Channel / 12SC0 QPSK



Middle Channel / 12SC0 QPSK



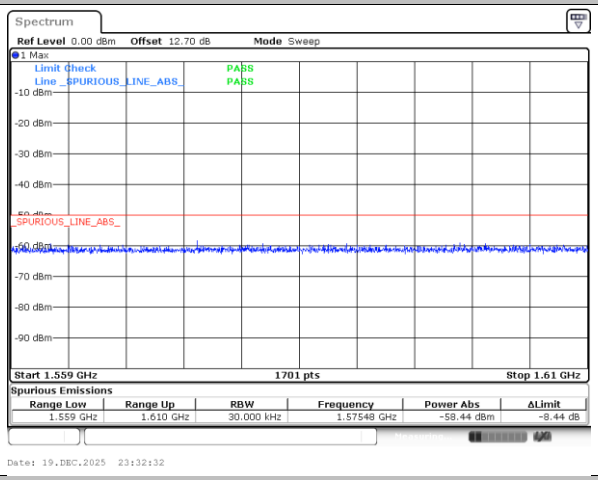
Highest Channel / 12SC0 QPSK



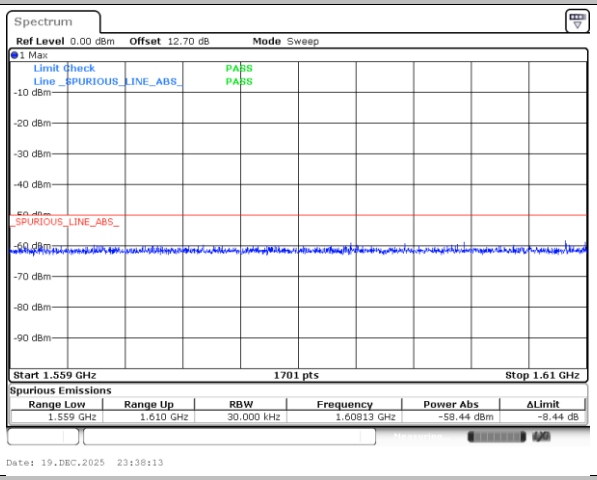
Band 23 SCS 3.75kHz

Discrete

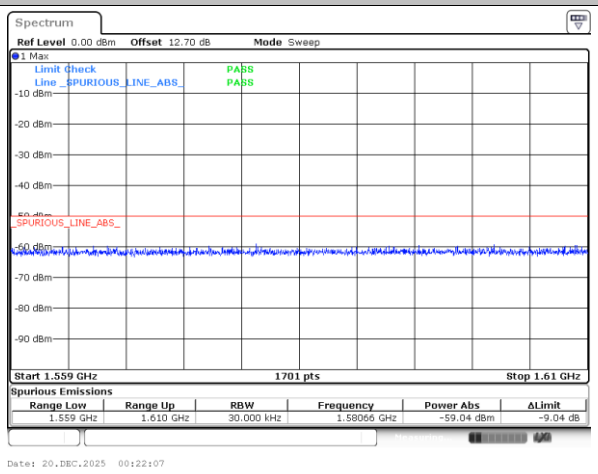
Lowest Channel / 1SC0 BPSK



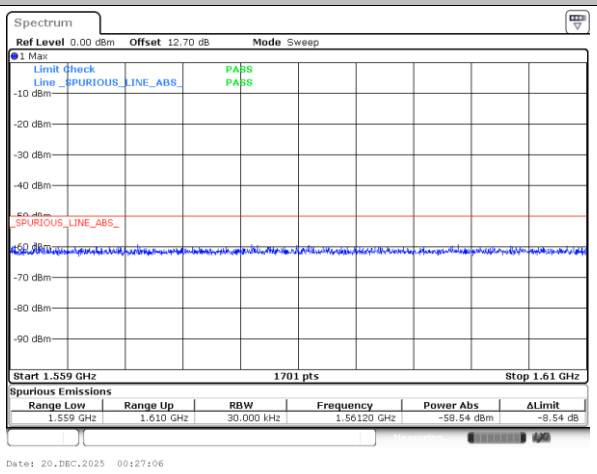
Lowest Channel / 1SC47 BPSK



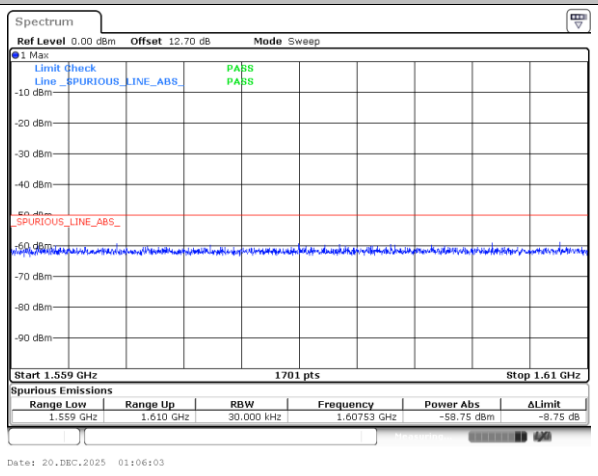
Middle Channel / 1SC0 BPSK



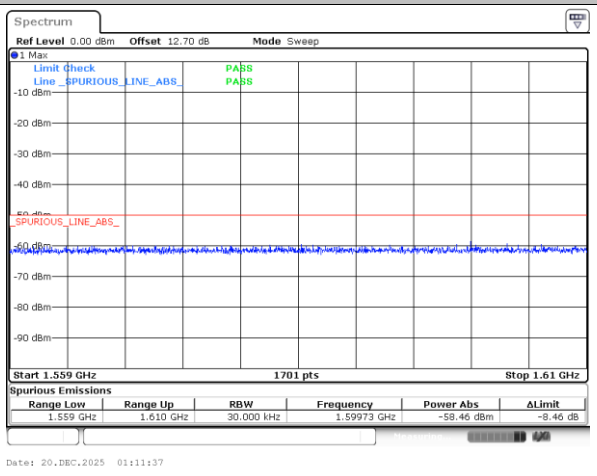
Middle Channel / 1SC47 BPSK



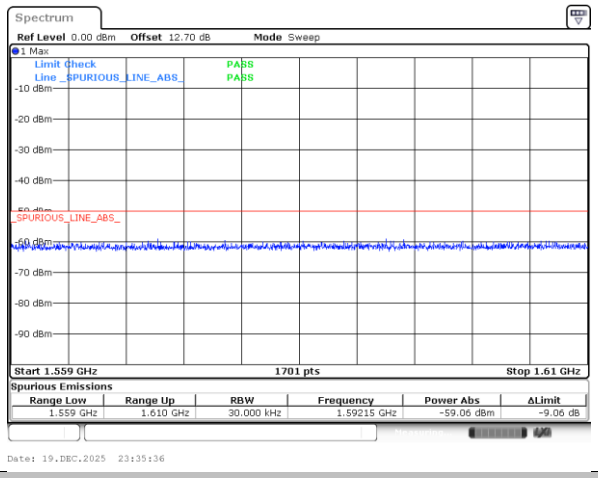
Highest Channel / 1SC0 BPSK



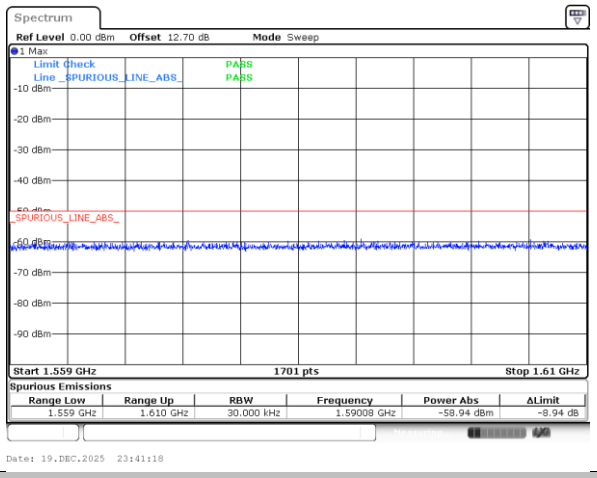
Highest Channel / 1SC47 BPSK



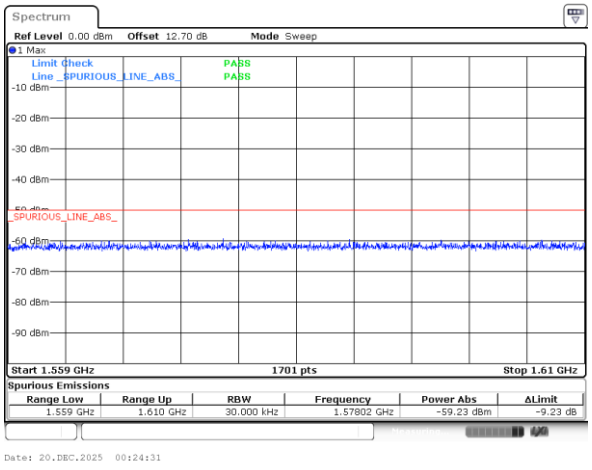
Lowest Channel / 1SC0 QPSK	Lowest Channel / 1SC47 QPSK



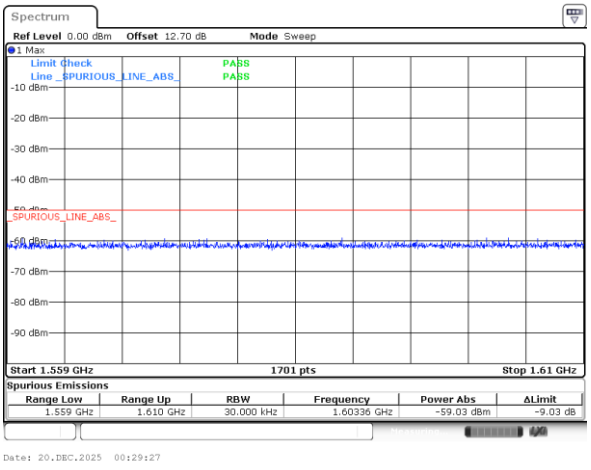
Middle Channel / 1SC0 QPSK



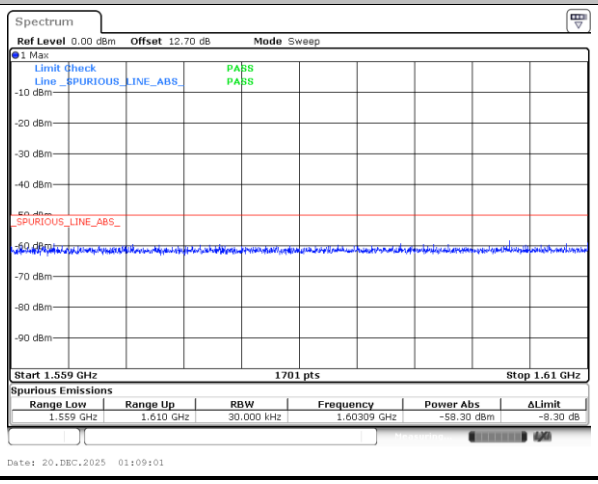
Middle Channel / 1SC47 QPSK



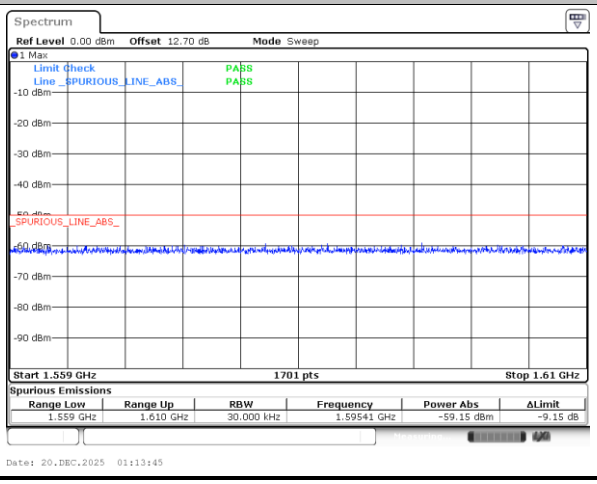
Highest Channel / 1SC0 QPSK



Highest Channel / 1SC47 QPSK



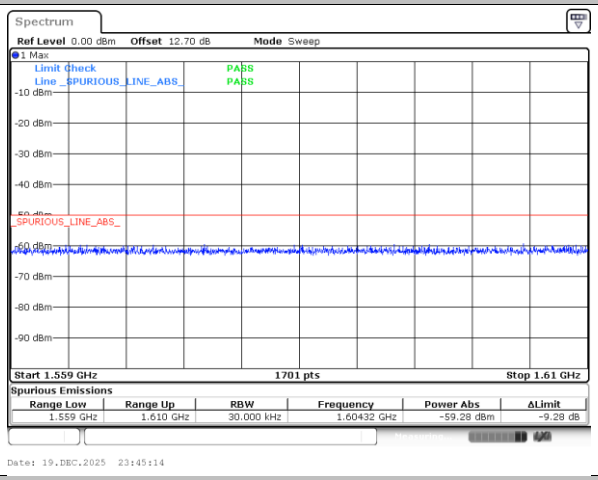
Highest Channel / 1SC47 QPSK



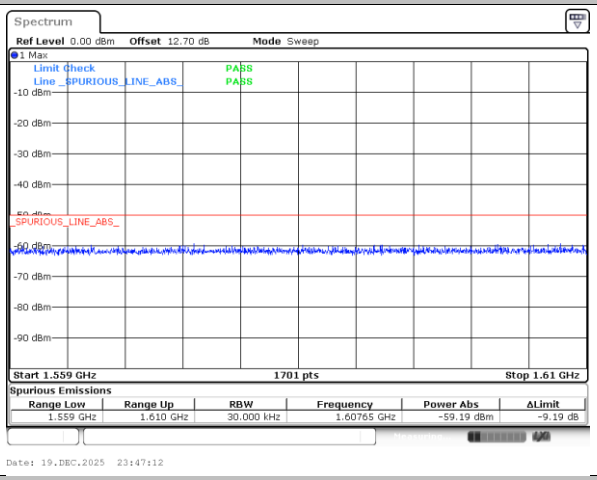
Band 23 SCS 15kHz

Discrete

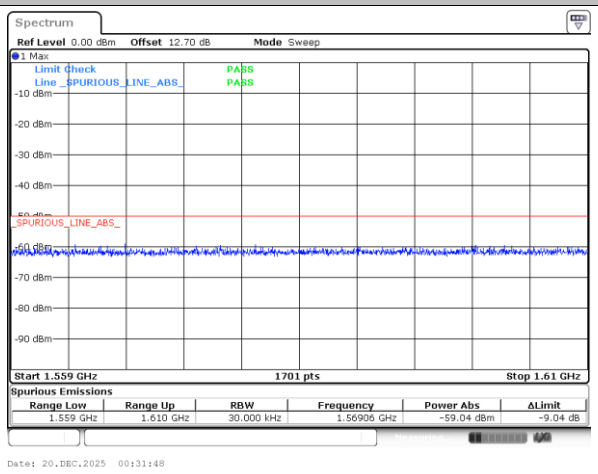
Lowest Channel / 1SC0 BPSK



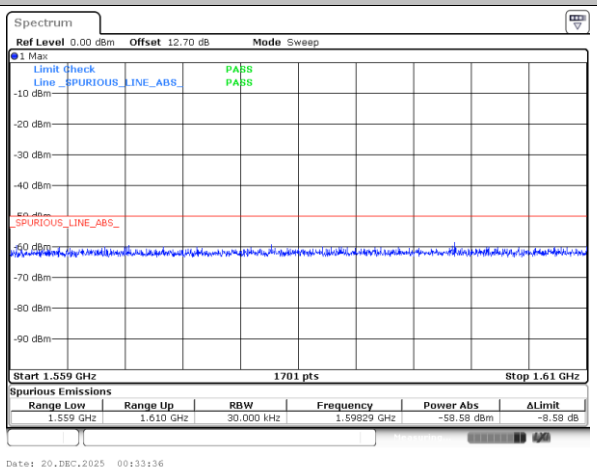
Lowest Channel / 1SC11 BPSK



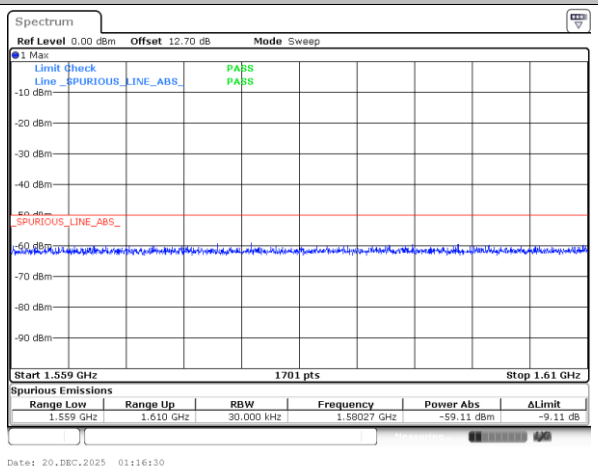
Middle Channel / 1SC0 BPSK



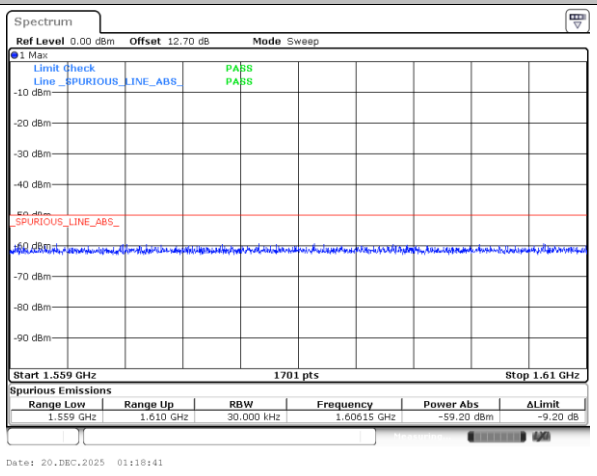
Middle Channel / 1SC11 BPSK



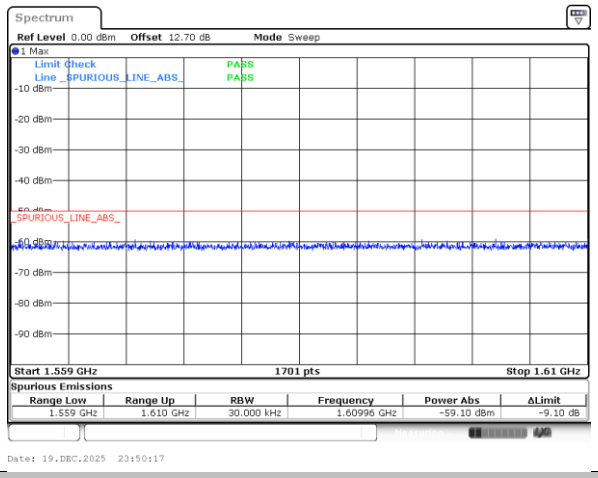
Highest Channel / 1SC0 BPSK



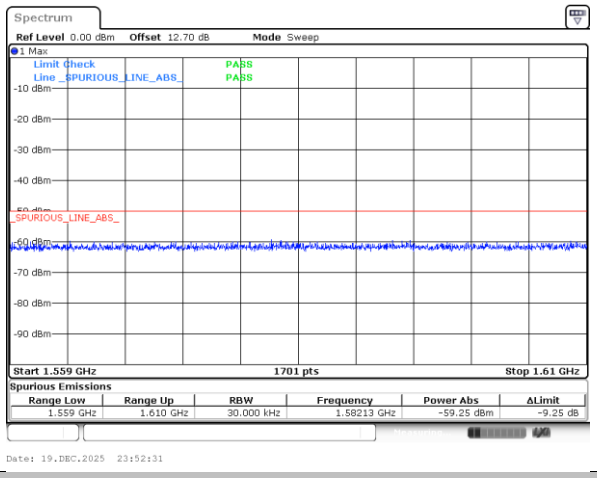
Highest Channel / 1SC11 BPSK



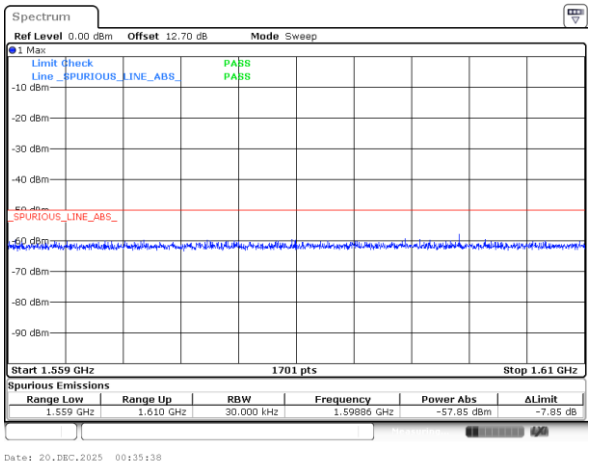
Lowest Channel / 1SC0 QPSK	Lowest Channel / 1SC11 QPSK



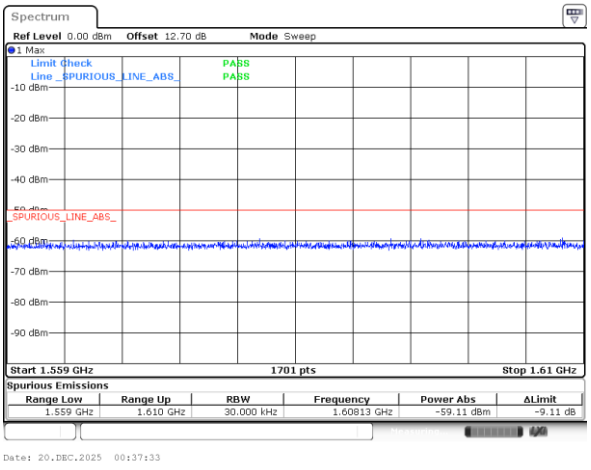
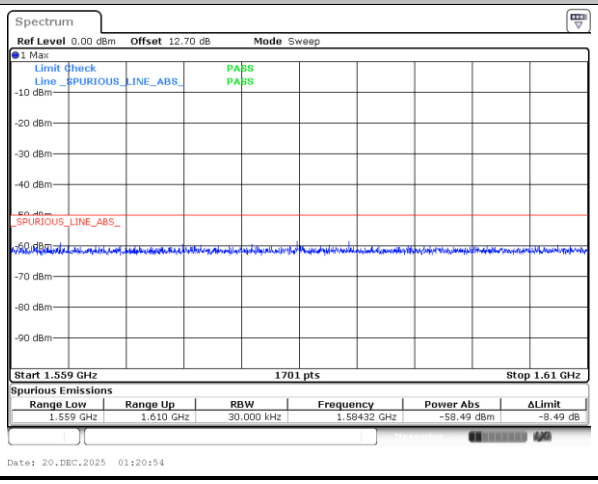
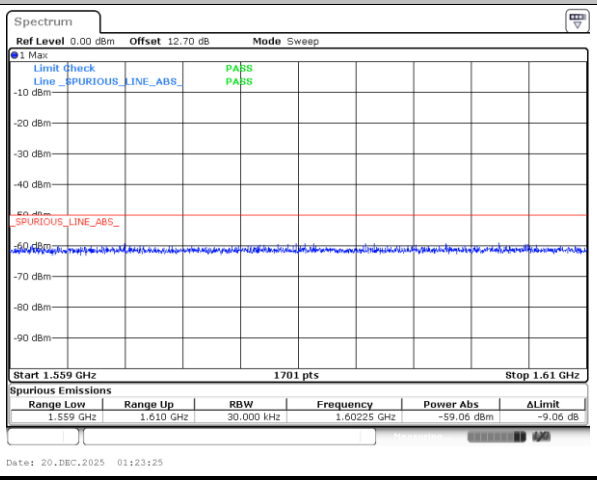
Middle Channel / 1SC0 QPSK



Middle Channel / 1SC11 QPSK



Highest Channel / 1SC0 QPSK



Highest Channel / 1SC11 QPSK