

TEST REPORT

Report Number. : R15103618-E1V2

Applicant : Sony Corporation
1-7-1 Konan Minato-Ku
Tokyo, 108-0075, Japan

FCC ID : PY7-46195Y

EUT Description : LTE/5G Portable Data Transmitter with BT,
DTS/UNII a/b/g/n/ac/ax and GPS

Test Standard : FCC 47 CFR PART 30 MOBILE TRANSMITTER

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2024-02-22	Initial Release	M. Antola
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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Sony Corporation
1-7-1 Konan Minato-ku
Tokyo, 108-0075, Japan

EUT DESCRIPTION: LTE/5G Portable Data Transmitter with BT,
DTS/UNII a/b/g/n/ac/ax and GPS

SERIAL NUMBERS: QV7700GPLA / QV7700GHLA

SAMPLE RECEIVE DATE: 2023-12-01

DATE TESTED: 2024-01-16 to 2024-02-15

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 30 Mobile Transmitter	Complies

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document.

Approved & Released For
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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with following methods.

1. FCC CFR 47 Part 2
2. FCC CFR 47 Part 30
3. ANSI C63.26-2015
4. KDB 842590 D01 Upper Microwave Flexible Use Service v01r02
5. KDB 971168 D01 Power Meas. License Digital Systems v03r01

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 2800 Perimeter Park Dr., Suite B, Morrisville, NC 27560, USA. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

2800 Perimeter Park Dr.	12 Laboratory Dr.
☐ Chamber 1	☐ Chamber A
☐ Chamber 2	☐ Chamber C
☒ Chamber 3 - mmWave	
☒ Chamber 4	
☒ Chamber 5 - mmWave	

UL LLC is accredited by A2LA, Cert. No. 751.06, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☐	12 Laboratory Drive Research Triangle Park, NC 27709, U.S.A.	US0067	2180C	825374
☒	2800 Perimeter Dr., Suite B, Morrisville, NC 27560, U.S.A.		27265	

Chambers 3 & 5 are fully anechoic chambers dedicated to make measurements to TRP limits from 18-40 GHz, and field strength, EIRP and TRP measurements at and above 40 GHz. The measurement antenna is nominally 1.5 m high in accordance with C63.10-2013 procedures developed by the C63 mmWave Joint Task Group for inclusion in the next editions of C63.10 and C63.26, and applicable FCC KDB documents. The absorber reflectivity fully supports chamber performance over this frequency range. The dimensions of the chambers are approximately 6.7m (L) by 3.7m (W) by 3.1m (H).

4. CALIBRATION AND UNCERTAINTY

4.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

4.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{LAB}
Worst Case Radiated Disturbance, 9 kHz to 30 MHz	2.52 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	4.88 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.24 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.39 dB*
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.19 dB*
Worst Case TRP, 26000 to 40000 MHz	4.97 dB*
Worst Case Radiated Disturbance >40000 MHz	2.87 dB*
Worst Case TRP, >40000 MHz	2.96 dB*
Temperature	±0.9 °C

*-This is the worst-case MU based on including the additional uncertainty contribution of the instrument (FSW analyzer) due to temperature deviations from self-alignment shown in some of the screen captures.

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is an LTE/5G Portable Data Transmitter with BT, DTS/UNII a/b/g/n/ac/ax and GPS.

This test report covers the TDD 5G NR operational mode on the following frequency bands:

n258: 24.25 - 24.45 GHz (denoted as n258 SB1 in this test report)
n258: 24.75 - 25.25 GHz (denoted as n258 SB2 in this test report)
n261: 27.50 - 28.35 GHz

The EUT additionally supports band n260, the results of which are documented in a separate test report. Refer to UL test report R15103618-E2V1 for details.

Two FR2 RFIC chipsets and antennas are utilized in the EUT and both chipsets are identical. Chipset 1 will transmit only on ANT0 and Chipset 2 will transmit only on ANT1. ANT0 and ANT1 employs integrated 1x5 element patch antenna arrays. Full measurements are performed on both Chipsets & Antennas.

The EUT supports SISO (1TX), SISO (2TX) and MIMO modes in following UE channel bandwidths configurations:

- n258 SB1: 100 MHz, with 120 kHz SCS and up to 2 component carriers (1CC to 2CC) for carrier aggregation technique
- n258 SB2: 100 MHz, with 120 kHz SCS and up to 4 component carriers (1CC to 4CC) for carrier aggregation technique
- n261: 50 MHz, with 120 kHz SCS at 1 component carriers (1CC); 100 MHz, with 120 kHz SCS and up to 4 component carriers (1CC to 4CC) for carrier aggregation technique

The SISO (1TX) mode operates with either the horizontal or vertical elements active. The SISO (2TX) mode operates with both horizontal and vertical elements active at the same power level per polarization as the SISO (1TX) mode. Similarly, the MIMO mode operates with both horizontal and vertical elements active. MIMO mode only supports CP-OFDM access scheme, but SISO (2TX) supports both CP-OFDM and DFT-s-OFDM access schemes. DFT-s-OFDM operates at higher power than CP-OFDM.

QPSK, 16QAM and 64QAM modulation formats are used in all three SISO (1TX), SISO (2TX) and MIMO modes. Pi/2 BPSK modulation format is only used in SISO (1TX) and SISO (2TX) modes.

5.2. DESCRIPTION OF AVAILABLE ANTENNAS

The EUT utilizes two sets of integrated dual-polarized patch antenna array. These antennas employ 1x5 elements antenna array. The peak antenna gains of cross polarization of each antenna, based on frequency bands, are listed in the following table.

Antenna	Frequency Band	Peak Gain (dBi)
ANT0	n258	8.7
	n261	11.2
ANT1	n258	8.5
	n261	10.4

5.3. MAXIMUM OBW AND EIRP

Maximum Occupied Bandwidth based on frequency bands and antenna:

Band	Antenna	Control System	Ch. BW (MHz)	CC's Active	OBW (MHz)	Emission Designator	Modulation
n258 SB1	ANT0	MIMO	100	2	193.28	193MG7W	QPSK
	ANT1	MIMO	100	2	194.06	194MG7W	QPSK
n258 SB2	ANT0	MIMO	100	4	398.09	399MG7W	QPSK
	ANT1	MIMO	100	4	398.97	400MG7W	QPSK
n261	ANT0	SISO (2TX)	100	4	399.44	399MG7W	Pi/2 BPSK
	ANT1	SISO (1TX)	100	4	398.15	398MG7W	QPSK

Maximum Average EIRP based on frequency bands and antenna:

Band	Antenna	Control System	Ch. BW (MHz)	CC's Active	Avg EIRP		Modulation
					dBm	W	
n258 SB1	ANT0	SISO (2TX)	100	1	30.30	1.07	QPSK
	ANT1	SISO (2TX)	100	1	28.50	0.708	Pi/2 BPSK
n258 SB2	ANT0	SISO (2TX)	100	1	27.12	0.515	QPSK
	ANT1	SISO (2TX)	100	1	29.71	0.935	QPSK
n261	ANT0	SISO (2TX)	50	1	31.97	1.57	QPSK
	ANT1	SISO (2TX)	100	1	30.48	1.12	QPSK

5.4. SOFTWARE AND FIRMWARE

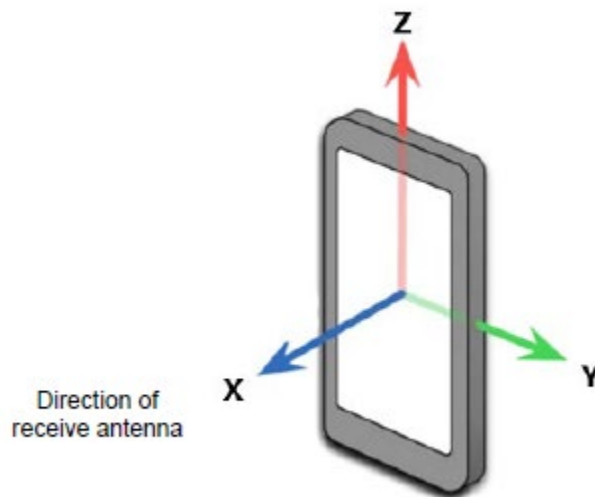
EUT Firmware versions: 0.154.

5.5. WORST CASE ORIENTATION

For all 5G NR FR2 Bands, the worst-case scenario for all measurements is based on the EIRP measurement investigation results. EIRPs were measured on PI/2 BPSK, QPSK, 16QAM and 64QAM modulations. It was found that QPSK results in SISO (2TX) supporting DFT-s-OFDM were worst case.

The fundamental and radiated spurious emission were investigated in three orthogonal planes, XY (azimuth), XZ (roll and elevation) and YZ (receive antenna polarization), where applicable on both antenna arrays.

In exploratory scans, the EUT is placed on an open-air fixture, allowing no blockage of the signal as measured by the receive antenna. The positioners, one at a time, perform a sweep taking EIRP readings using peak detection at small increments of step size. The positioner is then moved to its maximum EIRP orientation found during the sweep, and the next positioner will repeat the scan process. Once all positioners have individually scanned, the positioners will execute an additional set of scans for increased accuracy to identify the final optimum position resulting in highest EIRP for the frequency or band under investigation.



5.6. BEAM ID

Several worst-case Beam ID combinations were explored based on simulated power density results. In all tests, the following Beam ID settings of each antenna were applied for final measurements, as they were found to yield the highest EIRP.

Antenna	BID	Paired with
n258 SB1 – Peak Beam ID		
0	158	30
1	164	36
n258 SB2 – Peak Beam ID		
0	158	30
1	164	36
n261 – Peak Beam ID		
0	159	31
1	163	35

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST			
Description	Manufacturer	Model	Serial Number
Laptop	Lenovo	T14 Gen3	PF4FKVY8
Laptop	Lenovo	T14 Gen3	PF4FKW01
Laptop Power Adapter	Lenovo	ADLX65YDC2D	8SSA10R16970D1SG35A138M
Laptop Power Adapter	Lenovo	ADLX65YDC2D	8SSA10R16970D1SG35A1101
EUT Power Adapter	Sony	XQZ-UC1-010-236-21	1821W34210931
EUT Power Adapter	Sony	XQZ-UC1-010-236-21	1821W34209866

I/O CABLES

I/O Cable List					
Cable No.	Port	# of identical ports	Cable Type	Cable Length (m)	Remarks
1	USB	2	USB-C	< 3M	NA
2	HDMI	1	HDMI	< 3M	NA
3	Ethernet	1	Shielded CAT6	< 3M	NA

TEST SETUP

Radiated spurious emission measurements from 9kHz – 18GHz were performed in a semi-anechoic chamber (SAC) conforming to the normalized site attenuation requirements specified in ANSI C63.4a from 30MHz - 1GHz and the site validation criteria per CISPR 16-1-4: 2019 over the frequency range 1 – 18GHz.

Radiated power (EIRP) measurements of the fundamental signal and radiated spurious emissions (EIRP and TRP) measurements above 18GHz were performed in fully anechoic chambers. In accordance with ANSI C63.26 and KDB 842590 D01 v01r02, the chambers meet the sVSWR validation requirements per CISPR 16-1-4: 2019 over the frequency range 1 – 18GHz. As required by ANSI C63.26, the reflection contributions are reduced to the extent possible to allow for measurements to be made up to 100GHz in accordance with KDB 842590. The chamber absorber reflectivity fully supports chamber performance over this frequency range.

A roll-axis positioner was used to manipulate the EUT through the positions in space. The positioner was mounted on top of a turntable, bringing the EUT's antenna height on the test fixture to 1.5-meter from the ground plane. The test procedure for exploratory scan and final measurements are described in Section 5.5.

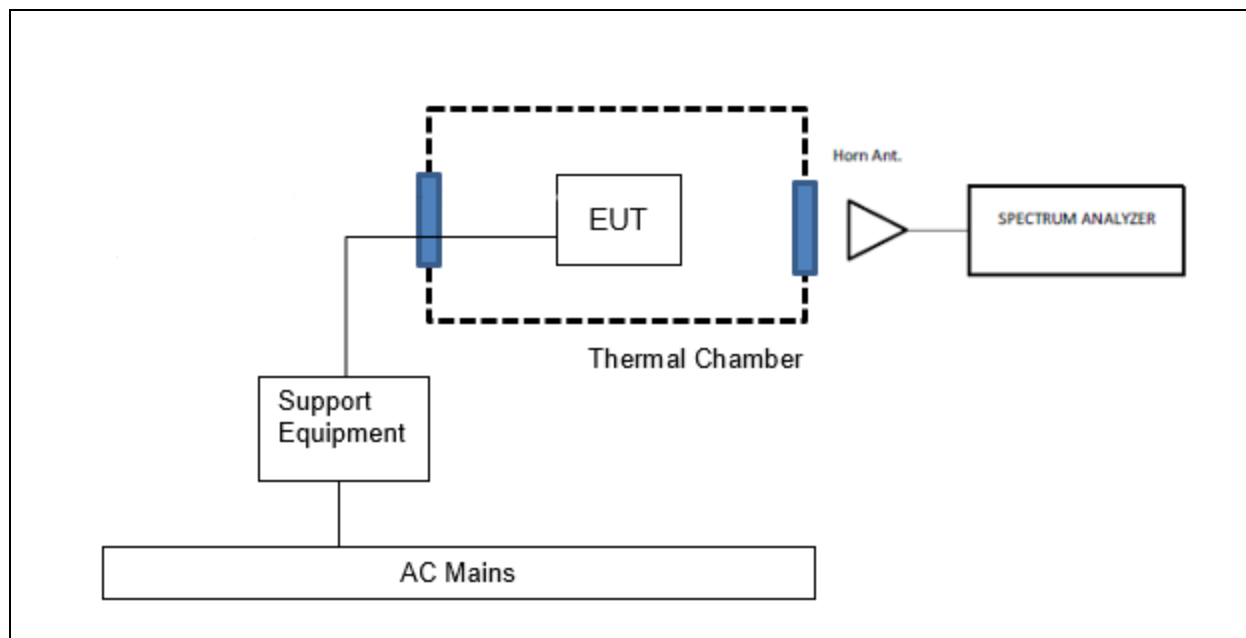
In the search of Beam ID pair transmitting the highest EIRP of each frequency band to use at final test, the manufacturer provided a number of Beam ID's of each antenna array that yield the highest EIRP for investigation. These Beam ID pairs were selected from the simulated results based on power density.

All testing was performed in non-signaling, stand-alone using FTM (Factory Test Mode). FTM software was used to configure the EUT at continuous TX operation in EN-DC mode. When implemented out in the field, the EUT will operate with a maximum uplink configuration (i.e., a maximum uplink duty cycle of 100%).

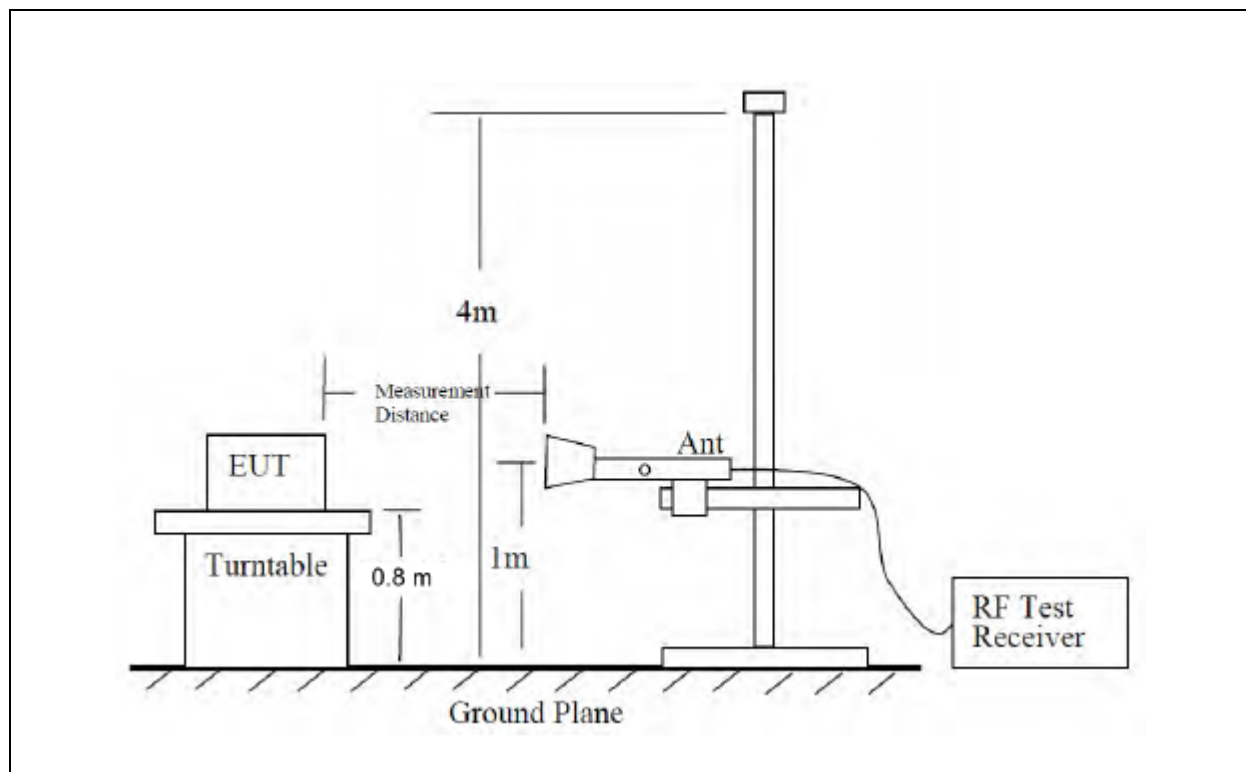
SETUP DIAGRAM FOR TESTS

Please refer to report R15103618-EP1 for setup diagram.

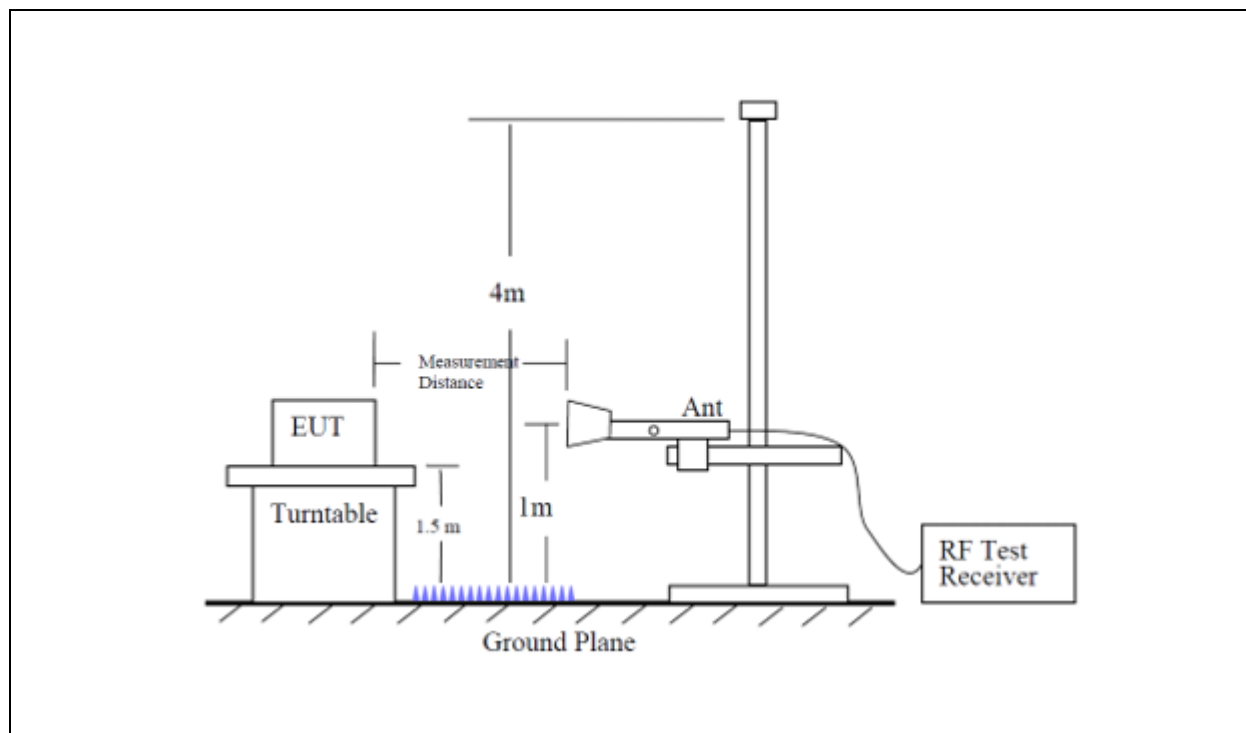
FREQUENCY STABILITY



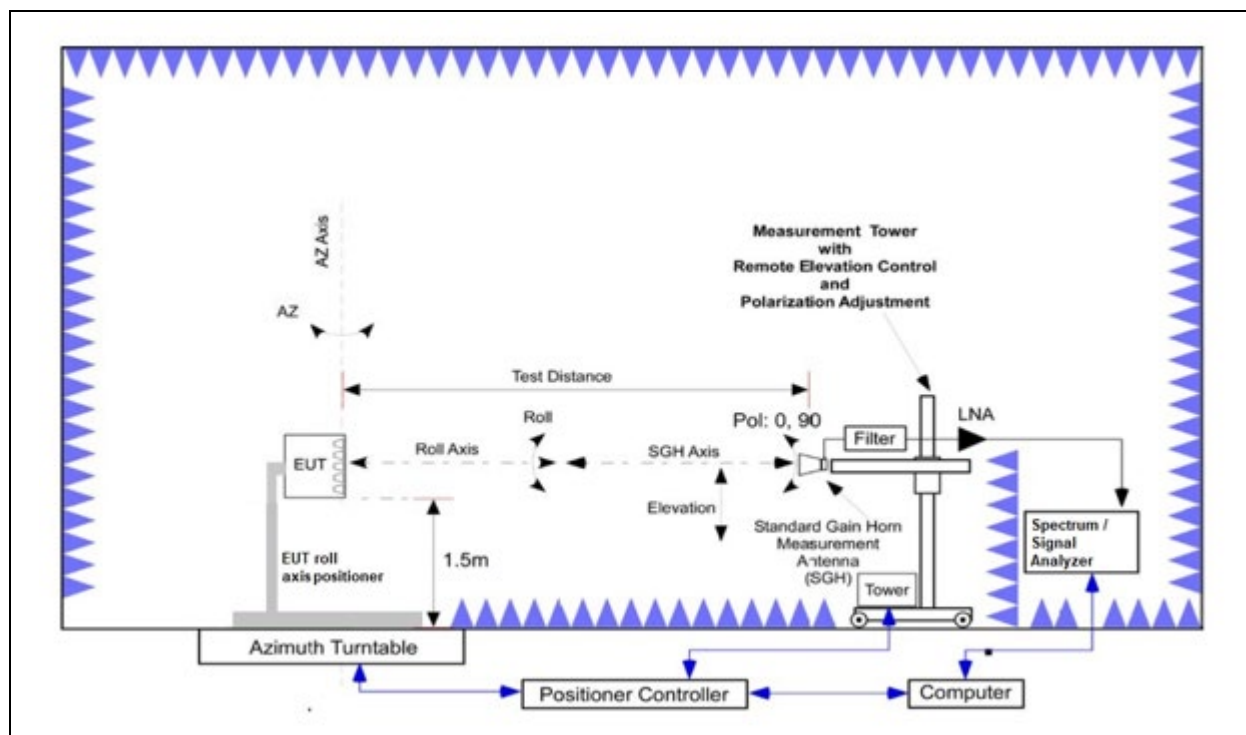
TEST SITE DIAGRAM – BELOW 1 GHz



TEST SITE DIAGRAM – 1-18 GHz



TEST SITE DIAGRAM – ABOVE 18 GHz



FAR-FIELD DISTANCE AND MEASUREMENT DISTANCE

The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable.

The measurement distance is in the far field per formula $2D^2/\lambda$ where D is the larger dimension of the antenna. For fundamental or band edge emissions, the largest far-field distance of either the EUT antenna or measurement antenna shall be used. For above 18 GHz spurious emissions, the far-field distance will be based on the measured antenna. In this case, the measurement antenna has the largest far-field distance. The EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest EIRP reading on the receive spectrum analyzer.

Frequency Range (GHz)	Wavelength (m)	Far Field Distance (m)	Measurement Distance Used (m)
18-26.5	0.0113	2.10	3.00
26.5-40	0.0075	1.66	3.00
40-50	0.0060	1.01	3.00
50-75	0.0040	0.65	3.00
75-100	0.0027	0.46	3.00

Radiated power levels are investigated while the receive antenna was rotated through all angles to determine the worst-case polarization/positioning.

6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment Used - mmWave Test Equipment (Morrisville – Chamber 5)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
	18-40 GHz				
212230	Horn Antenna, 18-26.5GHz	Com Power	AH-826	2023-02-14	2024-02-29
212231	Horn Antenna, 26.5-40GHz	Com Power	AH-640	2023-02-14	2024-02-29
	Receiver & Software				
214284	Spectrum Analyzer	Rohde & Schwarz	FSW50	2023-01-24	2024-01-24
mmWave	mmWave Software	UL	V2022.7.29		
	Additional Equipment used				
201270	Environmental Meter	Fisher Scientific	14-650-118	2023-04-25	2024-04-30

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 4)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
	0.009-30MHz				
135144	Active Loop Antenna	ETS-Lindgren	6502	2024-01-24	2025-01-24
	30-1000 MHz				
90628	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2024-01-02	2026-01-02
	1-18 GHz				
89509	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2023-05-23	2025-05-23
	Gain-Loss Chains				
207638	Gain-loss string: 0.009-30MHz	Various	Various	2023-09-18	2024-09-18
207639	Gain-loss string: 25-1000MHz	Various	Various	2023-09-18	2024-09-18
207640	Gain-loss string: 1-18GHz	Various	Various	2023-05-17	2024-05-17
	Receiver & Software				
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2023-04-10	2024-04-10
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
241204	Environmental Meter	Fisher Scientific	15-077-963	2023-09-05	2025-09-05

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
241848	10dB Pad, DC-18GHz, 5W	Mini-Circuits	BW-N10W5+	2023-11-09	2024-11-09
150716 (LPF008)	DC-1000MHz low-pass filter	Pasternack	PE8720	2023-02-15	2024-02-29

Test Equipment Used - Wireless Conducted Measurement Equipment

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	Conducted Room 1				
214284	Spectrum Analyzer	Rohde & Schwarz	FSW50	2024-02-04	2025-02-04
212230	Horn Antenna, 18-26.5GHz	Com Power	AH-826	2023-02-14	2024-02-29
212231	Horn Antenna, 26.5-40GHz	Com Power	AH-640	2023-02-14	2024-02-29
207726	Temp/Humid Chamber	Thermotron	SM-32-8200	2024-01-12	2025-01-12
179892	Environmental Meter	Fisher Scientific	15-077-963	2023-07-26	2024-06-31

Test Equipment Used - mmWave Test Equipment (Morrisville – Chamber 3)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
	18-40 GHz				
204907	Horn Antenna, 18-26.5GHz	Com Power	AH-826	2023-02-14	2024-02-29
204908	Horn Antenna, 26.5-40GHz	Com Power	AH-640	2023-02-14	2024-02-29
	40-50 GHz				
206209	Standard Gain Horn, 40-50GHz	Custom Microwave Inc.	HO22R	2023-02-14	2024-02-29
205910	Low Noise Amplifier	Eravant	SBL-3335033040-2222-E1	2023-02-02	2024-02-29
207949	Band Pass Filter	Eravant	SWF-4510460-2F2F-B1	2023-02-02	2024-02-29
	50-75 GHz				
206203	Standard Gain Horn, 50-75GHz	Custom Microwave Inc.	HO15R	2023-02-14	2024-02-29
206607	WR15 Downconverter	VDI	WR15.0SAX-F	2023-04-06	2024-04-06
205911	Low Noise Amplifier	Eravant	SBL-5037531850-1515-E1	2023-02-07	2024-02-29
	75-110 GHz				
206222	Standard Gain Horn, 75-110GHz	Custom Microwave Inc.	HO10R	2023-02-14	2024-02-29
207249	WR10 Downconverter	VDI	WR10.0SAX-F	2023-04-06	2024-04-06
205913	Low Noise Amplifier	Eravant	SBL-7531142050-1010-E1	2023-02-08	2024-02-29
	Receiver & Software				
206459	Spectrum Analyzer	Rohde & Schwarz	FSW50	2023-11-15	2024-11-15
mmWave	mmWave Software	UL	V2022.7.29		

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
	Additional Equipment used				
239539	Environmental Meter	Fisher Scientific	15-077-963	2023-07-19	2025-07-19

Note: All equipment was in calibration at the time of test.

All horn antennas at and above 18 GHz are standard gain horns. In accordance with ANSI C63.26: 2015 clause 4.5.3 (a), standard gain horns need not be periodically recalibrated, unless damage or deterioration is suspected or known to have occurred. If a standard gain horn is not periodically recalibrated, then its critical dimensions (see IEEE Std 1309-2005) shall be verified and documented on an annual basis.

UL measures the critical dimensions on an annual basis and checks for damage and deterioration before each test.

7. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Result
2.1049	Occupied Bandwidth	N/A	Radiated	Compliant
2.1046 30.202	Equivalent Isotropic Radiated Power (EIRP)	+43 dBm	Radiated	Compliant
2.1051 30.203	Out-of-Band Emissions at the Band Edge	-13 dBm/MHz for All out-of-band emissions. -5 dBm/MHz from the band edge up to 10% of the channel BW	Radiated	Compliant
2.1051 2.947(f) 30.203	Spurious Emissions	-13 dBm/MHz for all out-of-band emissions	Radiated	Compliant
2.1055	Frequency Stability	Fundamental emissions are contained within allocated frequency band	Radiated	Compliant

8. APPLICABLE LIMITS AND TEST RESULTS

8.1. OCCUPIED BANDWIDTH

RULE PART

FCC: §2.1049

LIMIT

For reporting purposes only

TEST PROCEDURES

99% bandwidth measurement function of the signal analyzer was used to measure 99% occupied.

- RBW = 1 – 5% of OBW
- VBW $\geq 3 \times$ RBW
- Detector = Peak
- Trace mode = Max Hold
- Sweep = Auto Couple
- The trace was allowed to stabilize

KDB 842590 D01 Upper Microwave Flexible Use Service v01r02 Section 4.3
ANSI C63.26-2015 Clause 5.4.3.

All modulations were investigated in SISO 2TX mode and only QPSK modulation in SISO 1TX and MIMO modes with Full RB allocation to determine worst case configuration. All modes of operations were investigation and results are reported in this section.

To minimize report size, plots of Full RB, SISO 2TX, QPSK, Mid Channel of all channel bandwidths on ANT0 are provided to demonstrate the test parameter setting on signal analyzer. The tabular data includes data for the other combination of test modes.

RESULTS

See the following pages.

TESTED BY

Employee IDs: 11322, 23854
Test Dates: 2024-01-11 to 2024-02-15
Test Location: Chamber 3, Chamber 5

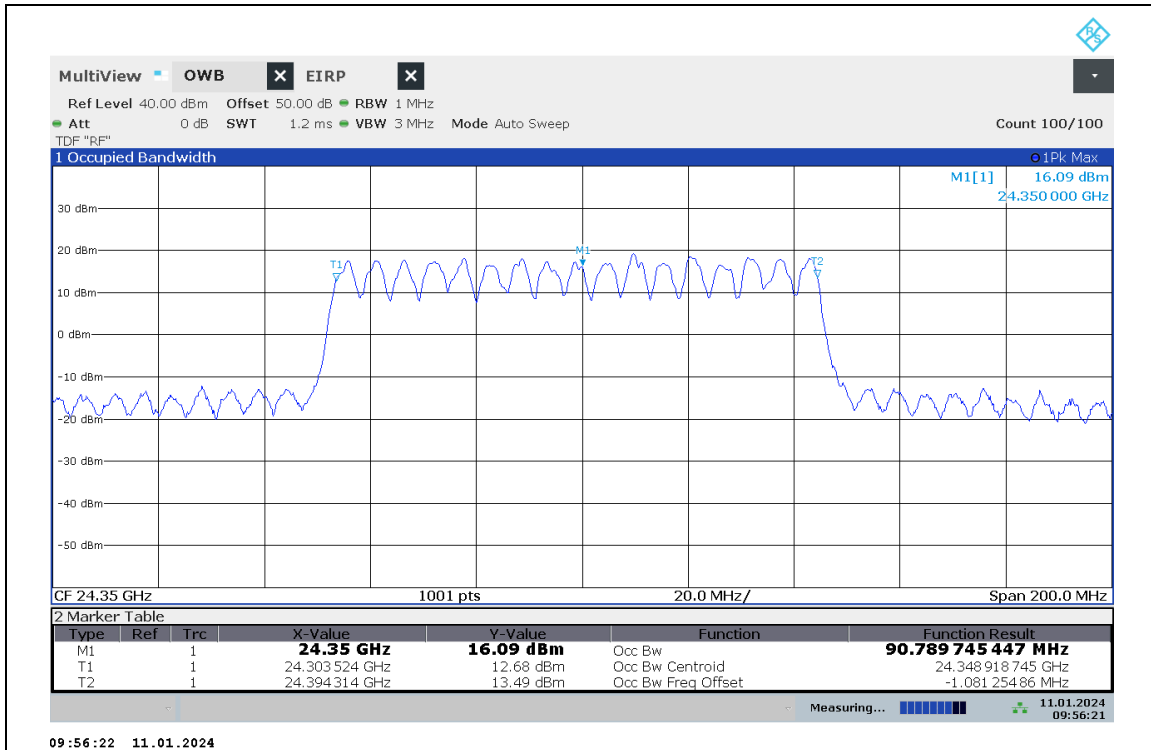
8.1.1. n258 SB1 ANTENNA 0 RESULTS

Modulation	Channel Bandwidth (MHz)	CCs Active	Control System	Channel	Measured OBW (MHz)
QPSK	100	1	SISO (1TX)	Mid	91.520
			SISO (2TX)	Low	90.790
				Mid	90.790
				High	91.856
			MIMO	Low	94.472
				Mid	94.461
		High		94.169	
		2	SISO (1TX)	Mid	191.064
			SISO (2TX)	Mid	191.933
			MIMO	Mid	193.280
PI/2 BPSK	1	SISO (2TX)	Mid	90.682	
	2		Mid	192.366	
16QAM	1		Mid	90.680	
	2		Mid	192.357	
64QAM	1		Mid	91.989	
	2		Mid	191.560	

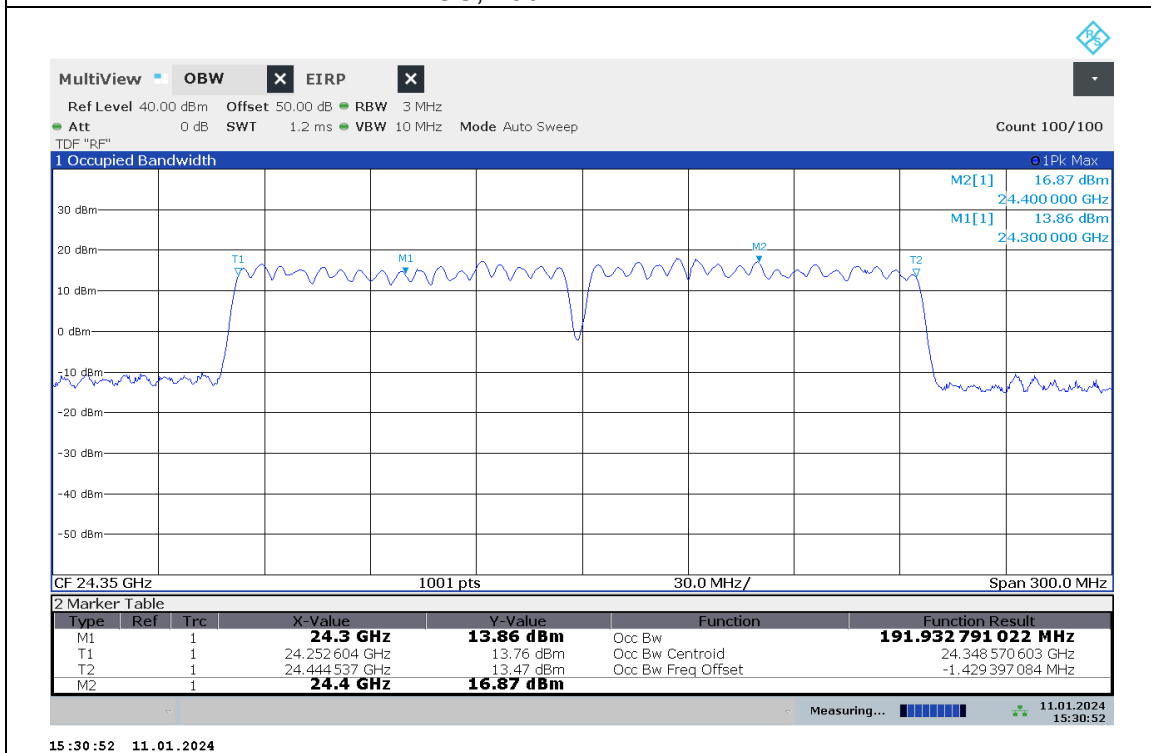
8.1.2. n258 SB1 ANTENNA 1 RESULTS

Modulation	Channel Bandwidth (MHz)	CCs Active	Control System	Channel	Measured OBW (MHz)
QPSK	100	1	SISO (1TX)	Mid	91.528
			SISO (2TX)	Low	91.522
				Mid	92.022
				High	91.543
			MIMO	Low	94.496
				Mid	94.382
		High		94.214	
		2	SISO (1TX)	Mid	190.880
			SISO (2TX)	Mid	189.181
			MIMO	Mid	194.060
PI/2 BPSK	100	1	SISO (2TX)	Mid	89.375
2		Mid		189.873	
1		Mid		92.064	
2		Mid		189.966	
1		Mid		89.764	
2		Mid		189.101	
16QAM	100	1	SISO (2TX)	Mid	92.064
2		Mid		189.966	
64QAM	100	1	SISO (2TX)	Mid	89.764
2		Mid		189.101	

n258 SB1, ANT 0, SISO (2TX), QPSK, Mid Ch



1CC, 100MHz Bandwidth

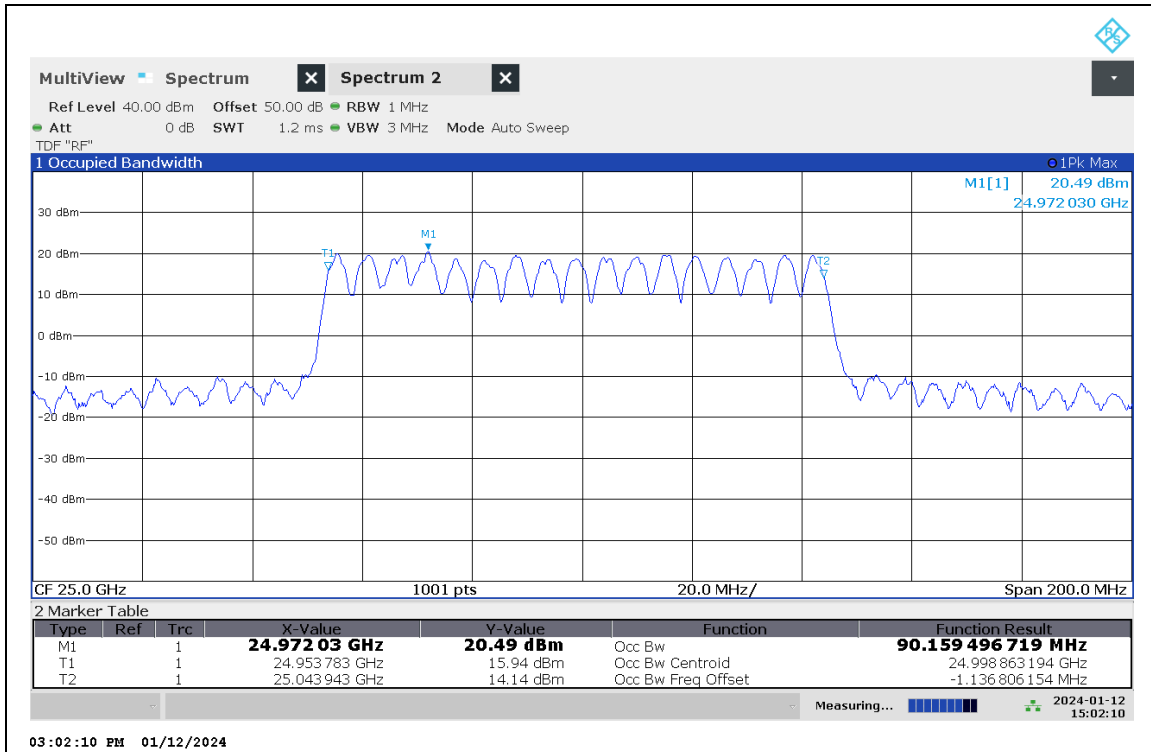


2CC, 100MHz Bandwidth

8.1.3. n258 SB2 ANTENNA 0 RESULTS

Modulation	Channel Bandwidth (MHz)	CCs Active	Control System	Channel	Measured OBW (MHz)
QPSK	100	1	SISO (1TX)	Mid	91.615
			SISO (2TX)	Low	90.574
				Mid	90.159
				High	92.107
			MIMO	Low	94.441
				Mid	94.502
				High	94.336
		2	SISO (1TX)	Mid	192.053
			SISO (2TX)	Low	191.783
				Mid	191.967
				High	192.348
			MIMO	Low	194.133
				Mid	194.329
				High	194.270
		3	SISO (1TX)	Mid	297.776
			SISO (2TX)	Low	297.502
				Mid	296.763
				High	295.670
			MIMO	Low	297.604
				Mid	297.578
				High	297.358
		4	SISO (1TX)	Mid	397.002
			SISO (2TX)	Low	396.762
				Mid	394.085
				High	396.389
			MIMO	Low	397.923
				Mid	398.085
				High	396.508
PI/2 BPSK	1	SISO (2TX)	Mid	90.685	
	2		Mid	192.477	
	3		Mid	297.176	
	4		Mid	395.405	
16QAM	1		Mid	90.567	
	2		Mid	189.464	
	3		Mid	296.560	
	4		Mid	396.191	
64QAM	1		Mid	90.268	
	2		Mid	189.201	
	3		Mid	292.341	
	4		Mid	394.417	

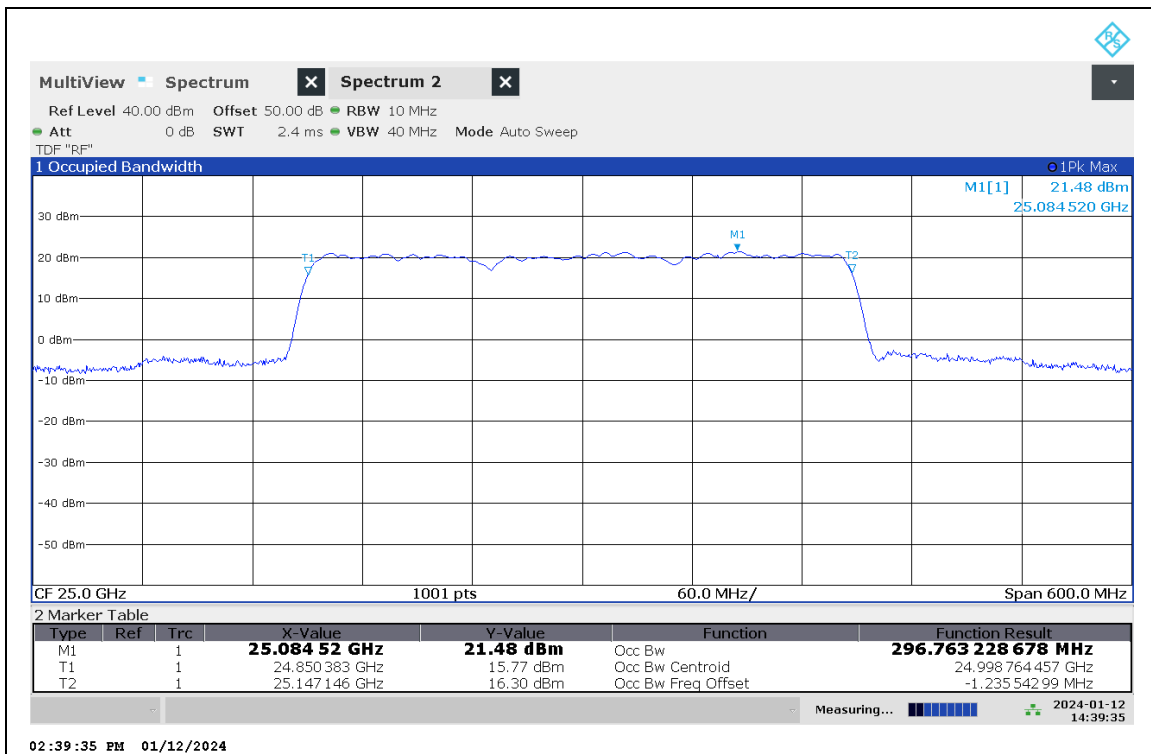
n258 SB1, ANT 0, SISO (2TX), QPSK, Mid Ch



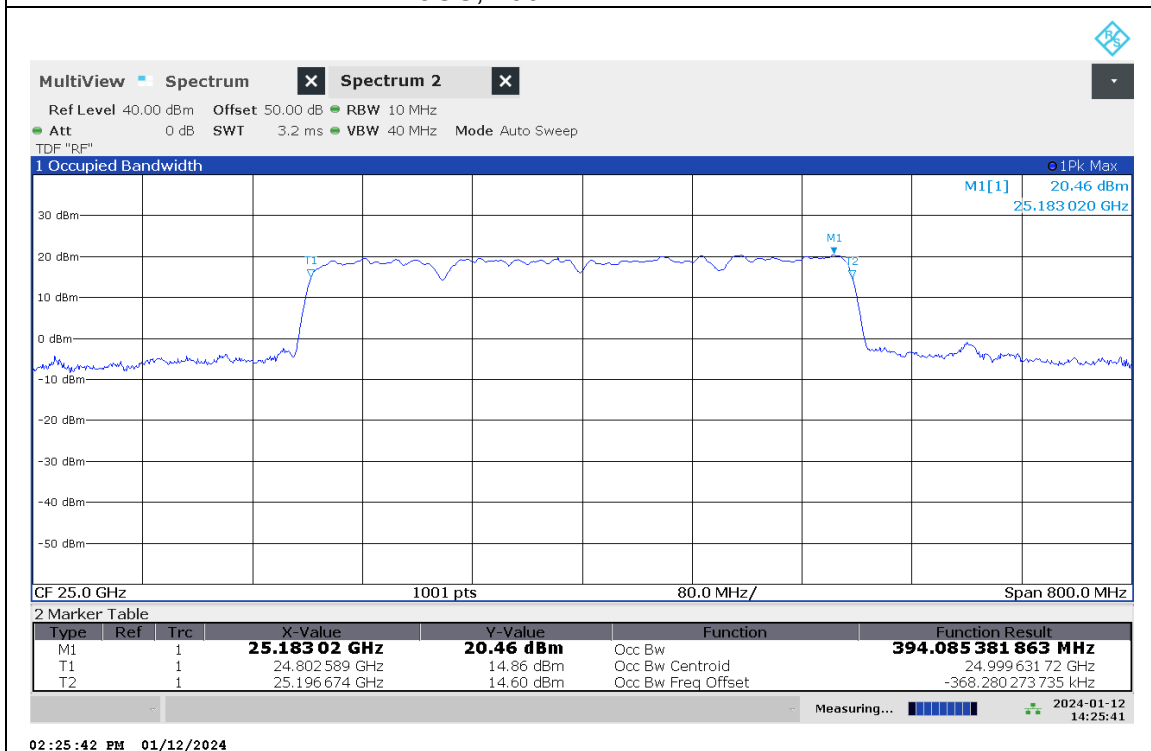
1CC, 100MHz Bandwidth



2CC, 100MHz Bandwidth



3CC, 100MHz Bandwidth



4CC, 100MHz Bandwidth

8.1.4. n258 SB2 ANTENNA 1 RESULTS

Modulation	Channel Bandwidth (MHz)	CCs Active	Control System	Channel	Measured OBW (MHz)
QPSK	100	1	SISO (1TX)	Mid	91.504
			SISO (2TX)	Low	91.670
				Mid	91.170
				High	91.051
			MIMO	Low	94.807
				Mid	94.805
				High	94.692
		2	SISO (1TX)	Mid	191.515
			SISO (2TX)	Low	191.221
				Mid	191.216
				High	191.061
			MIMO	Low	194.176
				Mid	194.425
				High	193.768
		3	SISO (1TX)	Mid	296.786
			SISO (2TX)	Low	297.389
				Mid	296.462
				High	296.177
			MIMO	Low	297.520
				Mid	299.237
				High	297.474
		4	SISO (1TX)	Mid	397.399
			SISO (2TX)	Low	396.939
				Mid	398.966
				High	397.174
			MIMO	Low	397.002
				Mid	396.654
				High	396.815
PI/2 BPSK	1	SISO (2TX)	Mid	91.247	
	2		Mid	191.489	
	3		Mid	298.394	
	4		Mid	398.425	
16QAM	1		Mid	91.702	
	2		Mid	191.252	
	3		Mid	295.241	
	4		Mid	395.927	
64QAM	1		Mid	91.454	
	2		Mid	191.458	
	3		Mid	295.753	
	4		Mid	395.202	

8.1.5. n261 ANTENNA 0 RESULTS

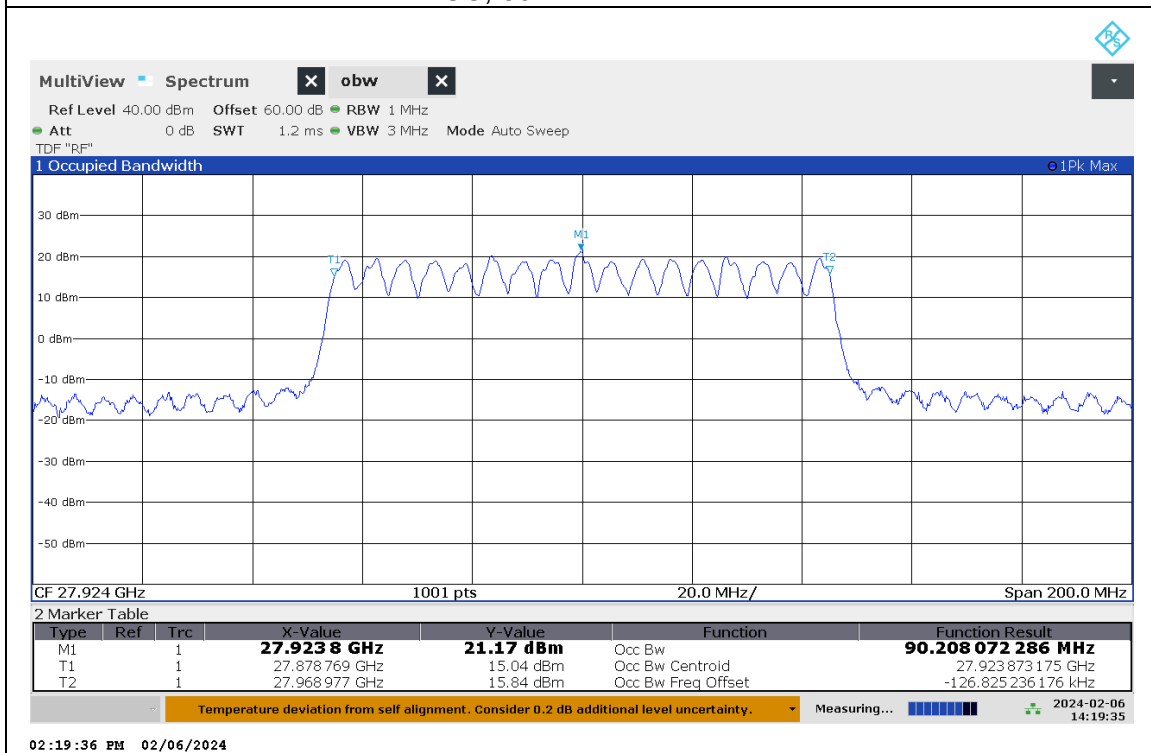
Modulation	Channel Bandwidth (MHz)	CCs Active	Control System	Channel	Measured OBW (MHz)
QPSK	50	1	SISO (1TX)	Mid	45.900
			SISO (2TX)	Low	46.319
				Mid	46.022
				High	46.379
			MIMO	Low	46.122
				Mid	46.055
				High	46.176
	100	1	SISO (1TX)	Mid	91.566
			SISO (2TX)	Low	92.041
				Mid	90.208
				High	91.861
			MIMO	Low	94.463
				Mid	94.389
				High	94.380
		2	SISO (1TX)	Mid	192.378
			SISO (2TX)	Low	192.280
				Mid	192.078
				High	191.992
			MIMO	Low	193.689
				Mid	194.443
				High	194.590
		3	SISO (1TX)	Mid	299.919
			SISO (2TX)	Low	297.062
				Mid	298.103
				High	296.292
			MIMO	Low	294.074
				Mid	299.585
				High	296.943
		4	SISO (1TX)	Mid	397.577
			SISO (2TX)	Low	396.153
				Mid	398.251
				High	396.981
			MIMO	Low	396.610
				Mid	397.785
				High	397.030

Modulation	Channel Bandwidth (MHz)	CCs Active	Control System	Channel	Measured OBW (MHz)
PI/2 BPSK	50	1	SISO (2TX)	Mid	46.011
	100				90.097
	100	2			191.892
	100	3			298.592
	100	4			399.445
16QAM	50	1	SISO (2TX)	Mid	45.834
	100				90.512
	100	2			191.855
	100	3			296.583
	100	4			395.439
64QAM	50	1	SISO (2TX)	Mid	45.973
	100				90.540
	100	2			192.410
	100	3			297.485
	100	4			397.495

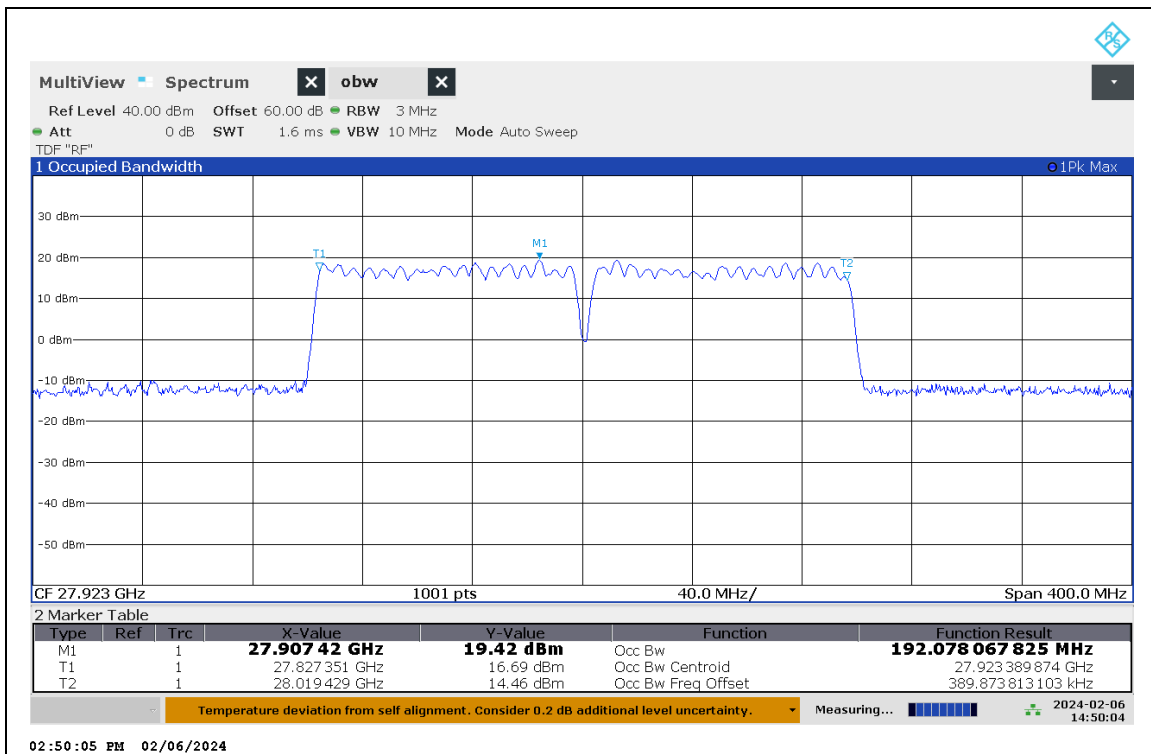
n261, ANT 0, SISO (2TX), QPSK, Mid Ch



1CC, 50MHz Bandwidth



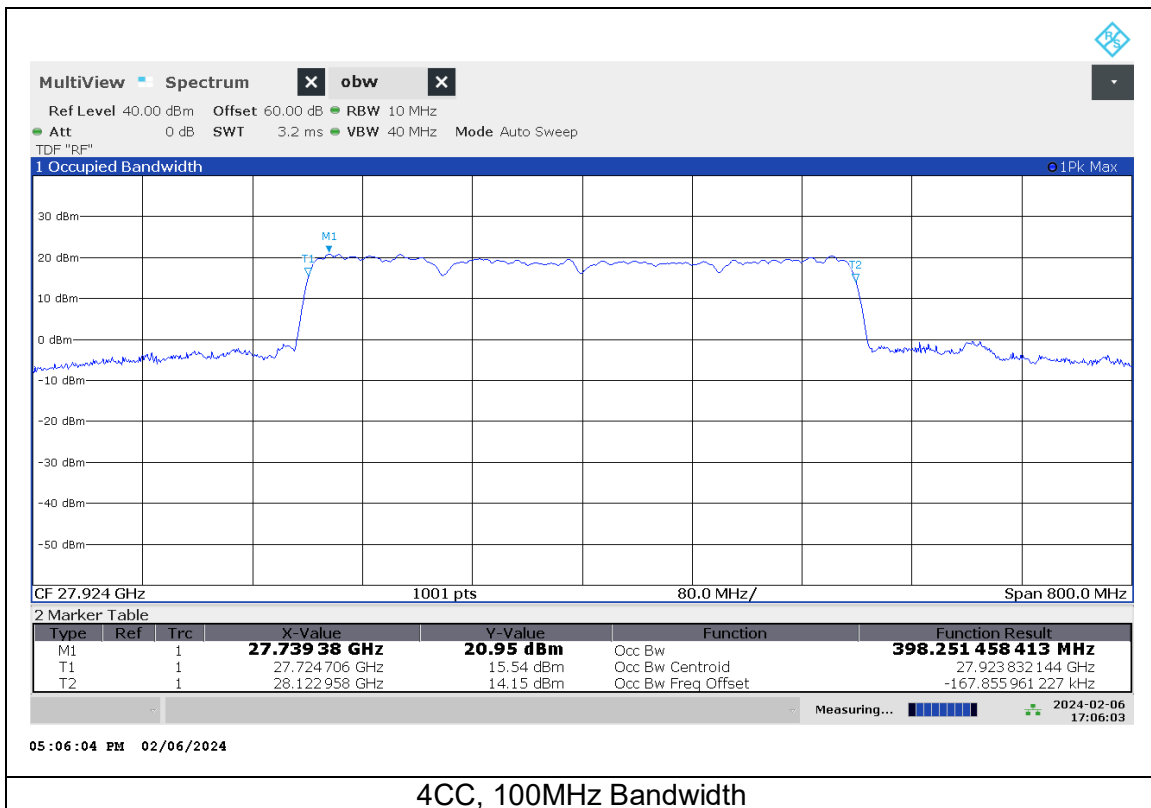
1CC, 100MHz Bandwidth



2CC, 100MHz Bandwidth



3CC, 100MHz Bandwidth



8.1.6. n261 ANTENNA 1 RESULTS

Modulation	Channel Bandwidth (MHz)	CCs Active	Control System	Channel	Measured OBW (MHz)
QPSK	50	1	SISO (1TX)	Mid	46.016
			SISO (2TX)	Low	46.111
				Mid	45.923
				High	46.018
			MIMO	Low	46.180
				Mid	45.986
				High	46.053
	100	1	SISO (1TX)	Mid	91.350
			SISO (2TX)	Low	89.336
				Mid	89.345
				High	91.979
			MIMO	Low	94.195
				Mid	94.400
				High	94.611
		2	SISO (1TX)	Mid	191.616
			SISO (2TX)	Low	189.151
				Mid	188.863
				High	192.153
			MIMO	Low	194.111
				Mid	193.915
				High	194.220
		3	SISO (1TX)	Mid	297.597
			SISO (2TX)	Low	296.107
				Mid	298.238
				High	296.550
			MIMO	Low	294.038
				Mid	298.873
				High	297.598
		4	SISO (1TX)	Mid	398.146
			SISO (2TX)	Low	396.485
				Mid	395.674
				High	397.808
			MIMO	Low	396.872
				Mid	397.173
				High	397.118

Modulation	Channel Bandwidth (MHz)	CCs Active	Control System	Channel	Measured OBW (MHz)
PI/2 BPSK	50	1	SISO (2TX)	Mid	45.910
	100				92.043
	100	2			188.988
	100	3			297.402
	100	4			394.940
16QAM	50	1	SISO (2TX)	Mid	45.890
	100				92.184
	100	2			189.151
	100	3			297.330
	100	4			394.143
64QAM	50	1	SISO (2TX)	Mid	46.089
	100				89.424
	100	2			188.846
	100	3			297.887
	100	4			395.976

8.2. EQUIVALENT ISOTROPIC RADIATED POWER

RULE PART(S)

FCC: §2.1046, §30.202

LIMIT

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

TEST PROCEDURES

Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.

- $RBW = 1 - 5\%$ of the OBW
- $VBW \geq 3 \times RBW$
- Span = 2x to 3x the OBW
- Number of measurement points in sweep $> 2 \times \text{span} / RBW$
- Sweep time = auto-couple
- Detector = Power RMS
- Trace mode = Average over 100 sweeps

KDB 842590 D01 Upper Microwave Flexible Use Service v01r02 Section 4.2
ANSI C63.26-2015 Clause 5.2, Clause 5.5, Clause 6.4, and Annex C.5.2

EIRP measurements of variable frequency bands were performed at the far field test distance listed in Section 5.

EIRP was calculated using the equations on ANSI C63.26-2015 Annex C.5.2. The total correction factors of horn antenna gain, cable loss and far-field path loss were calculated using equation C.8 and C.9 and pre-loaded into spectrum analyzer.

Sample calculation of EIRP:

$$\begin{aligned}\text{Total Correction Factor} &= \text{Cable Loss (dB)} - \text{Horn Ant Gain (dBi)} + \text{Path Loss (dB)} \\ &= 4 - 23 + 71 \\ &= 52 \text{ dB}\end{aligned}$$

$$\text{EIRP} = P_{\text{measured}} \text{ (dBm)}, \text{ where Total Correction Factor preloaded}$$

Radiated power levels are investigated while the receive antenna was rotated through all angles to determine the worst-case polarization/positioning.

Worse-Case Configurations

The SISO 1TX mode operates with either the horizontal or vertical elements active. The SISO 2TX mode operates with both horizontal and vertical elements active at the same power per polarization as the SISO mode. Therefore, the SISO 2TX mode represents the highest total EIRP across both SISO 1TX and SISO 2TX modes. Only spot checks were performed on the SISO 1TX mode to confirm this. Single RB (highest power) and full RB allocations were measured.

For Ant 0 and Ant 1, $\pi/2$ BPSK, QPSK, 16QAM and 64QAM modulations were investigated in SISO 2TX mode. The highest power mode is QPSK for the modulations with SISO 2TX mode. Spot checks in QPSK modulation were performed on the SISO 1TX and MIMO modes. Full data is provided for these combinations.

To minimize report size, plots of Full RB, SISO 2TX, QPSK, any of tested low/mid/high channels with both channel bandwidths on Ant 0 are provided to demonstrate the test parameter setting on signal analyzer. The tabular data includes data for the other combination of test modes.

RESULTS

See the following pages.

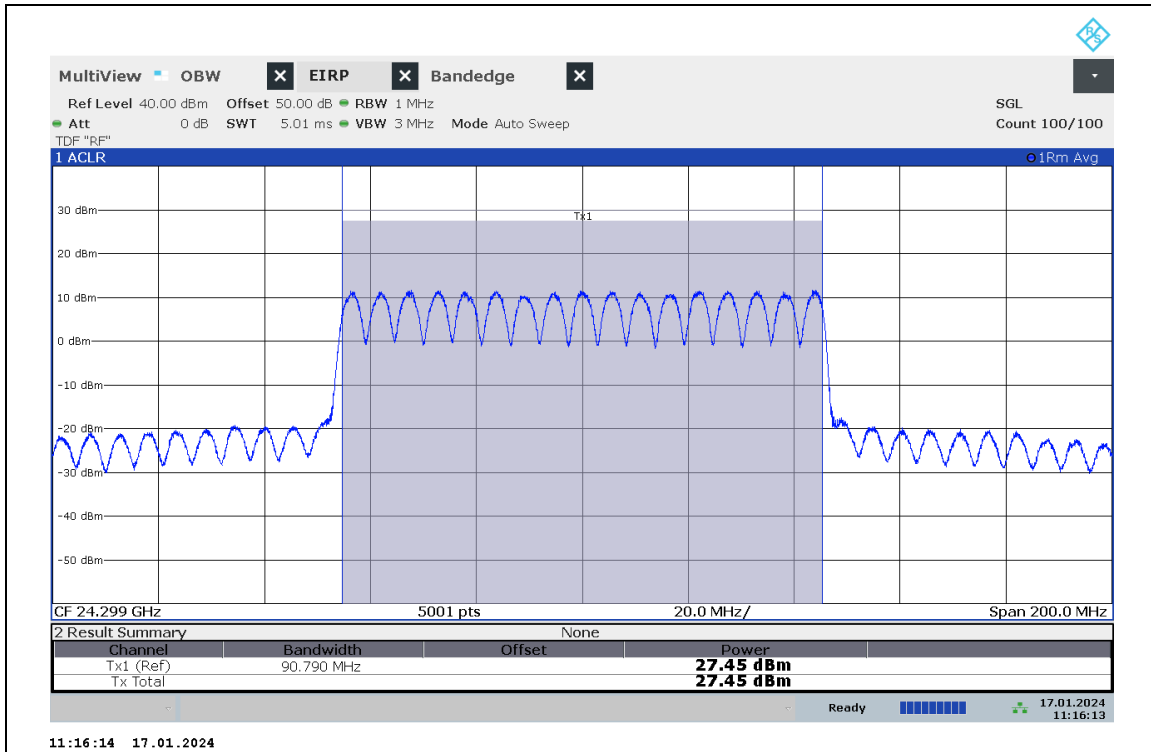
TESTED BY

Employee IDs: 11322, 23854
Test Dates: 2024-01-11 to 2024-02-15
Test Location: Chamber 3, Chamber 5

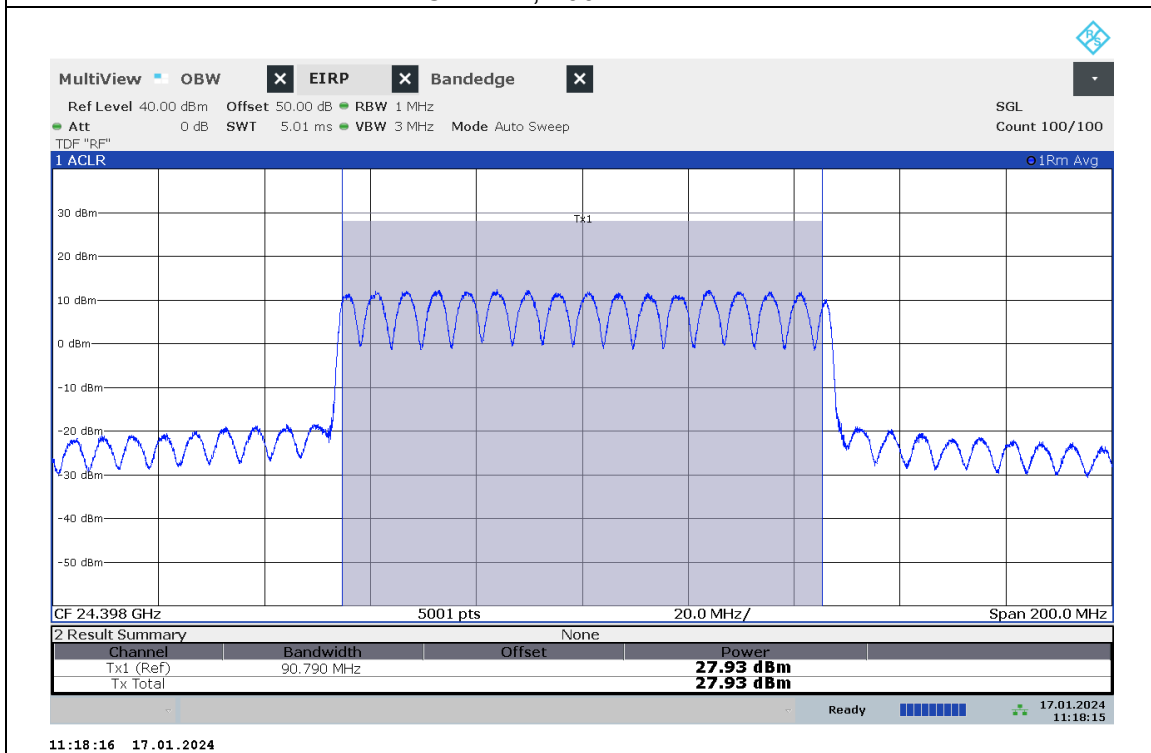
8.2.1. n258 SB1 ANTENNA 0 RESULTS

Modulation	Channel Bandwidth (MHz)	CCs Active	Control System	Channel	RB (Size/Offset)	Avg EIRP (dBm)	Limit (dBm)	Margin (dB)
QPSK	100	1	SISO (1TX)	Mid	1/31	27.82	43	-15.18
			SISO (2TX)	Low	1/0	28.82	43	-14.18
				Low	1/31	29.15	43	-13.85
				Low	64/0	27.45	43	-15.55
				Mid	1/31	30.30	43	-12.9
				High	1/31	29.22	43	-13.78
				High	1/63	28.64	43	-14.36
				High	64/0	27.93	43	-15.07
			MIMO	Low	66/0	25.34	43	-17.66
				Mid	1/32	26.61	43	-16.39
				Mid	66/0	25.77	43	-17.23
				High	66/0	25.93	43	-17.07
		2	SISO (1TX)	Mid	1/31	20.58	43	-22.42
			SISO (2TX)	Mid	1/0	24.09	43	-18.91
				Mid	1/31	22.71	43	-20.29
				Mid	1/63	23.13	43	-19.87
				Mid	64/0	25.79	43	-17.21
			MIMO	Mid	1/32	22.75	43	-20.25
				Mid	66/0	23.54	43	-19.46
PI/2 BPSK		1	SISO (2TX)	Mid	1/31	30.17	43	-12.83
		2			64/0	25.82	43	-17.18
16QAM		1			1/31	27.64	43	-15.36
		2			64/0	23.72	43	-19.28
64QAM		1			1/31	26.11	43	-16.89
		2			64/0	21.66	43	-21.34

n258 SB1, ANT 0, SISO (2TX), QPSK, 1CC

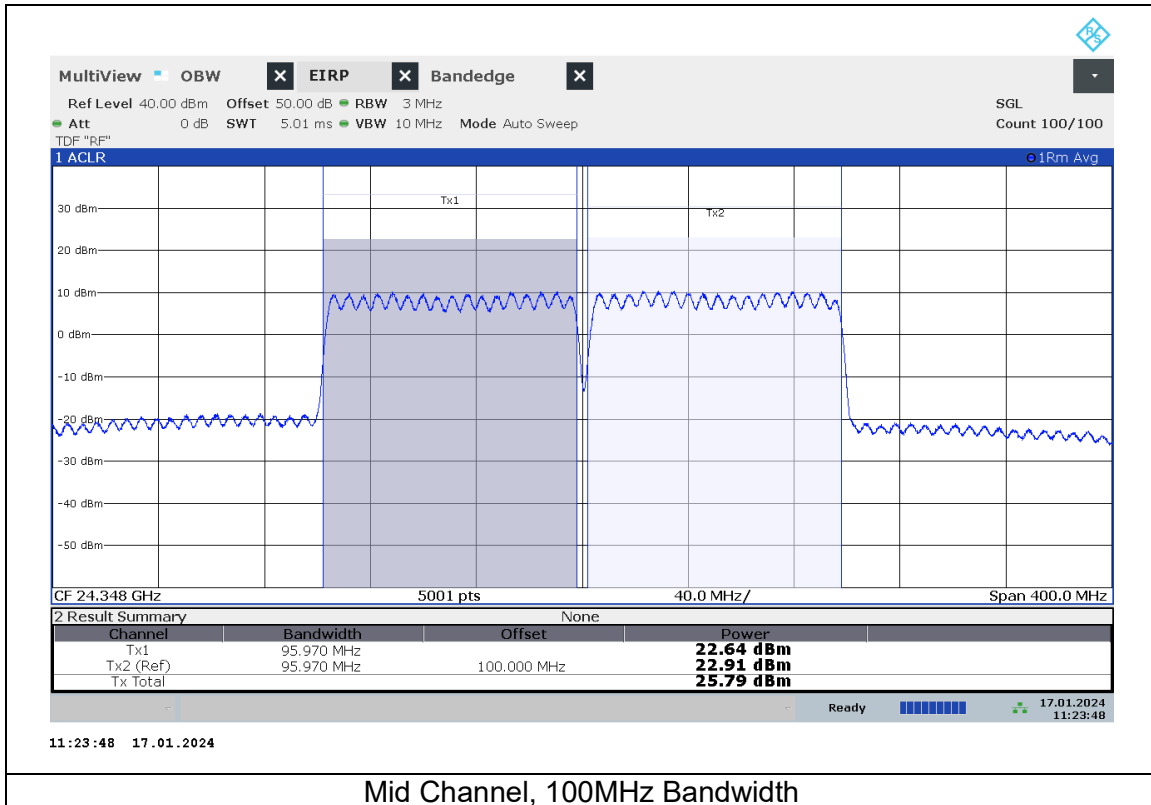


Low Channel, 100MHz Bandwidth



High Channel, 100MHz Bandwidth

n258 SB1, ANT 0, SISO (2TX), QPSK, 2CC



8.2.2. n258 SB1 ANTENNA 1 RESULTS

Modulation	Channel Bandwidth (MHz)	CCs Active	Control System	Channel	RB (Size/Offset)	Avg EIRP (dBm)	Limit (dBm)	Margin (dB)
QPSK	100	1	SISO (1TX)	Mid	1/31	25.96	43	-17.04
			SISO (2TX)	Low	1/0	26.06	43	-16.94
				Low	1/31	27.97	43	-15.03
				Low	64/0	24.91	43	-18.09
				Mid	1/31	28.62	43	-14.38
				High	1/31	28.37	43	-14.63
				High	1/63	27.45	43	-15.55
				High	64/0	25.63	43	-17.37
			MIMO	Low	66/0	23.68	43	-19.32
				Mid	1/32	25.35	43	-17.65
				Mid	66/0	24.32	43	-18.68
				High	66/0	24.6	43	-18.40
		2	SISO (1TX)	Mid	1/31	18.52	43	-24.48
			SISO (2TX)	Mid	1/0	22.14	43	-20.86
				Mid	1/31	22.01	43	-20.99
				Mid	1/63	19.87	43	-23.13
				Mid	64/0	23.15	43	-19.85
			MIMO	Mid	1/32	21.01	43	-21.99
				Mid	66/0	22.14	43	-20.86
PI/2 BPSK		1	SISO (2TX)	Mid	1/31	28.5	43	-14.50
		2			64/0	23.19	43	-19.81
16QAM		1			1/31	26.33	43	-16.67
		2			64/0	20.86	43	-22.14
64QAM		1			1/31	24.35	43	-18.65
		2			64/0	18.80	43	-24.20

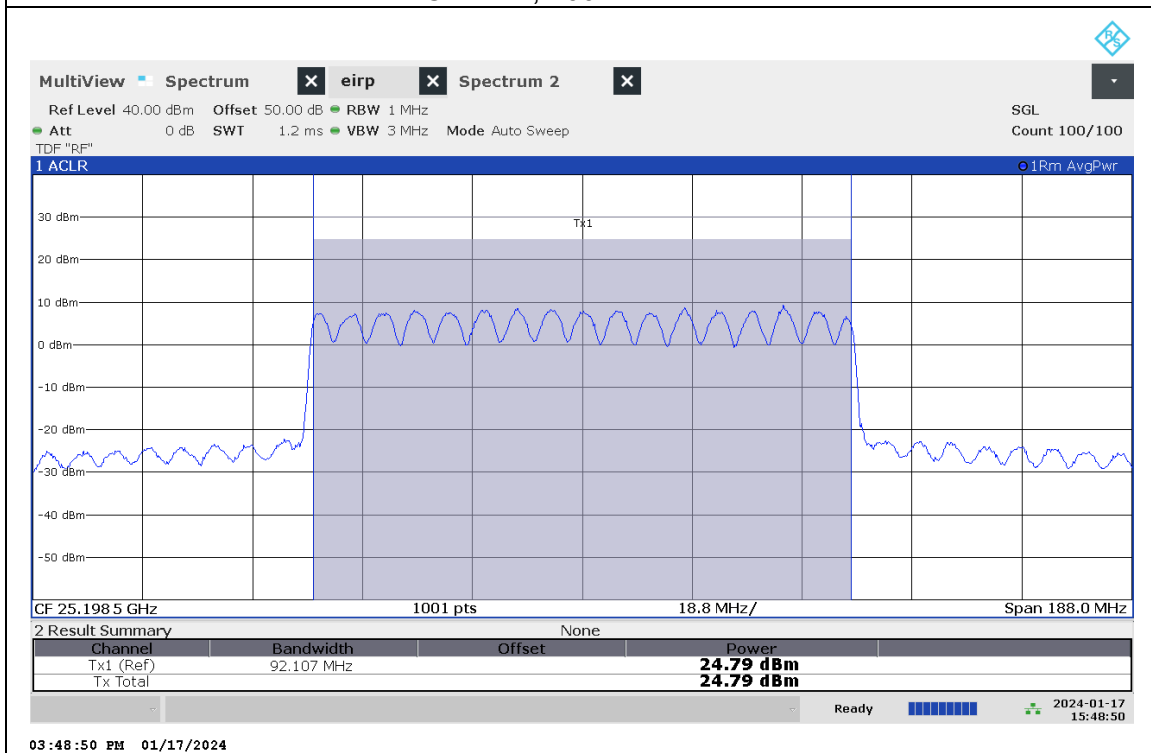
8.2.1. n258 SB2 ANTENNA 0 RESULTS

Modulation	Channel Bandwidth (MHz)	CCs Active	Control System	Channel	RB (Size/Offset)	Avg EIRP (dBm)	Limit (dBm)	Margin (dB)
QPSK	100	1	SISO (1TX)	Mid	1/31	25.35	43	-17.65
			SISO (2TX)	Low	1/0	25.26	43	-17.74
				Low	1/31	26.37	43	-16.63
				Low	64/0	24.97	43	-18.03
				Mid	1/31	26.24	43	-16.76
				High	1/31	27.12	43	-15.88
				High	1/63	24.74	43	-18.26
				High	64/0	24.79	43	-18.21
			MIMO	Low	66/0	23.13	43	-19.87
				Mid	66/0	22.56	43	-20.44
				Mid	1/32	24.18	43	-18.82
				High	66/0	22.82	43	-20.18
		2	SISO (1TX)	Mid	1/31	20.36	43	-22.64
			SISO (2TX)	Low	1/0	19.83	43	-23.17
				Low	64/0	23.24	43	-19.76
				Mid	1/0	19.26	43	-23.74
				Mid	1/31	20.09	43	-22.91
				Mid	1/63	19.77	43	-23.23
				High	1/63	20.43	43	-22.57
				High	64/0	22.99	43	-20.01
			MIMO	Low	66/0	21.19	43	-21.81
				Mid	66/0	20.78	43	-22.22
				Mid	1/32	20.32	43	-22.68
				High	66/0	20.83	43	-22.17
		3	SISO (1TX)	Mid	1/31	20.69	43	-22.31
			SISO (2TX)	Low	1/0	19.23	43	-23.77
				Low	64/0	22.97	43	-20.03
				Mid	1/0	20.54	43	-22.46
				Mid	1/31	19.74	43	-23.26
				Mid	1/63	20.45	43	-22.55
				High	1/63	20.4	43	-22.6
				High	64/0	22.88	43	-20.12
			MIMO	Low	66/0	20.94	43	-22.06
				Mid	66/0	20.96	43	-22.04
				Mid	1/32	20.64	43	-22.36
				High	66/0	20.85	43	-22.15
		4	SISO (1TX)	Mid	1/31	20.61	43	-22.39
			SISO (2TX)	Low	1/0	19.62	43	-23.38
				Low	64/0	23.07	43	-19.93
				Mid	1/0	19.75	43	-23.25
				Mid	1/31	19.59	43	-23.41
				Mid	1/63	20.18	43	-22.82
				High	1/63	20.55	43	-22.45
				High	64/0	22.99	43	-20.01
			MIMO	Low	66/0	23.90	43	-19.1
				Mid	66/0	20.97	43	-22.03
				Mid	1/32	20.7	43	-22.3
				High	66/0	20.88	43	-22.12
PI/2 BPSK	100	1	SISO (2TX)	Mid	1/31	26.26	43	-16.74
16QAM		1			1/31	23.92	43	-19.08
64QAM		1			1/31	22.21	43	-20.79

n258 SB2, ANT 0, SISO (2TX), QPSK, 1CC

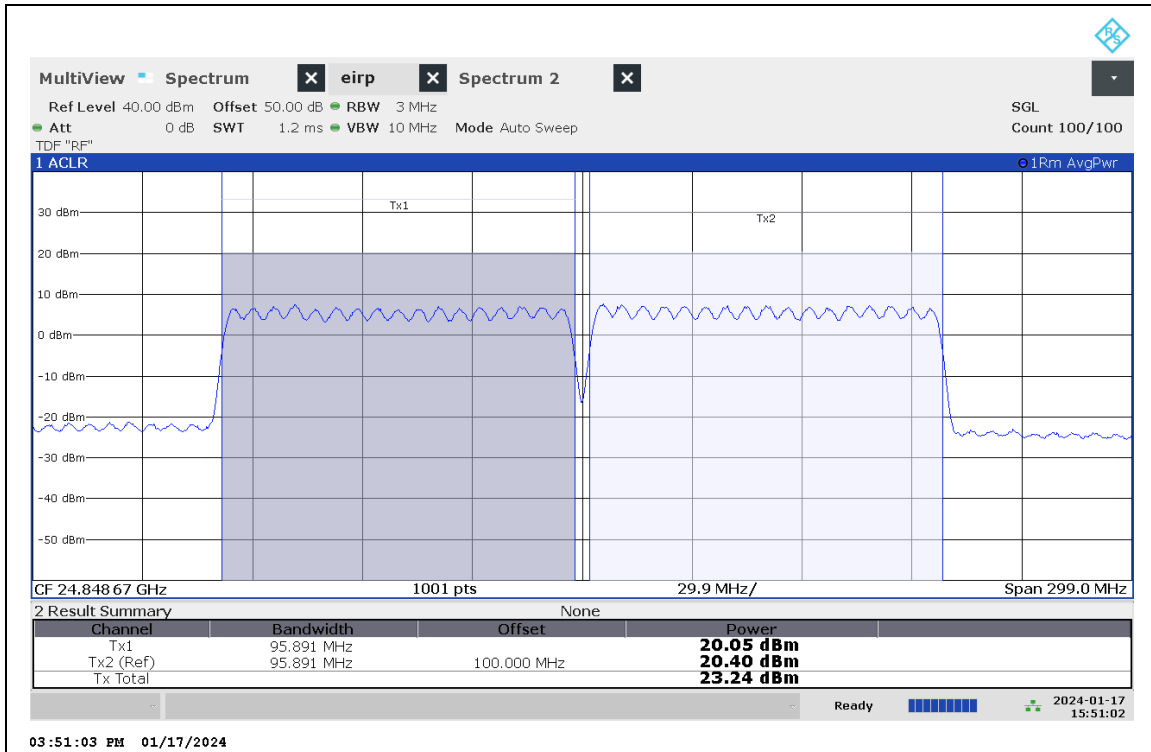


Low Channel, 100MHz Bandwidth

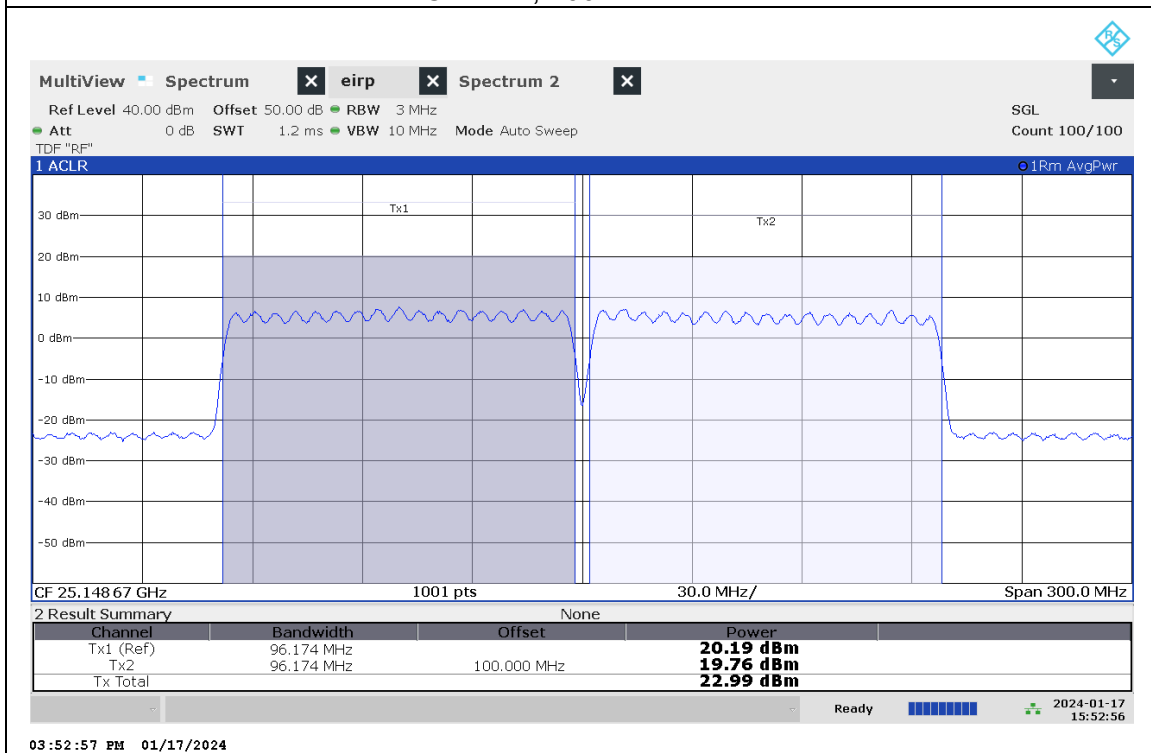


High Channel, 100MHz Bandwidth

n258 SB2, ANT 0, SISO (2TX), QPSK, 2CC

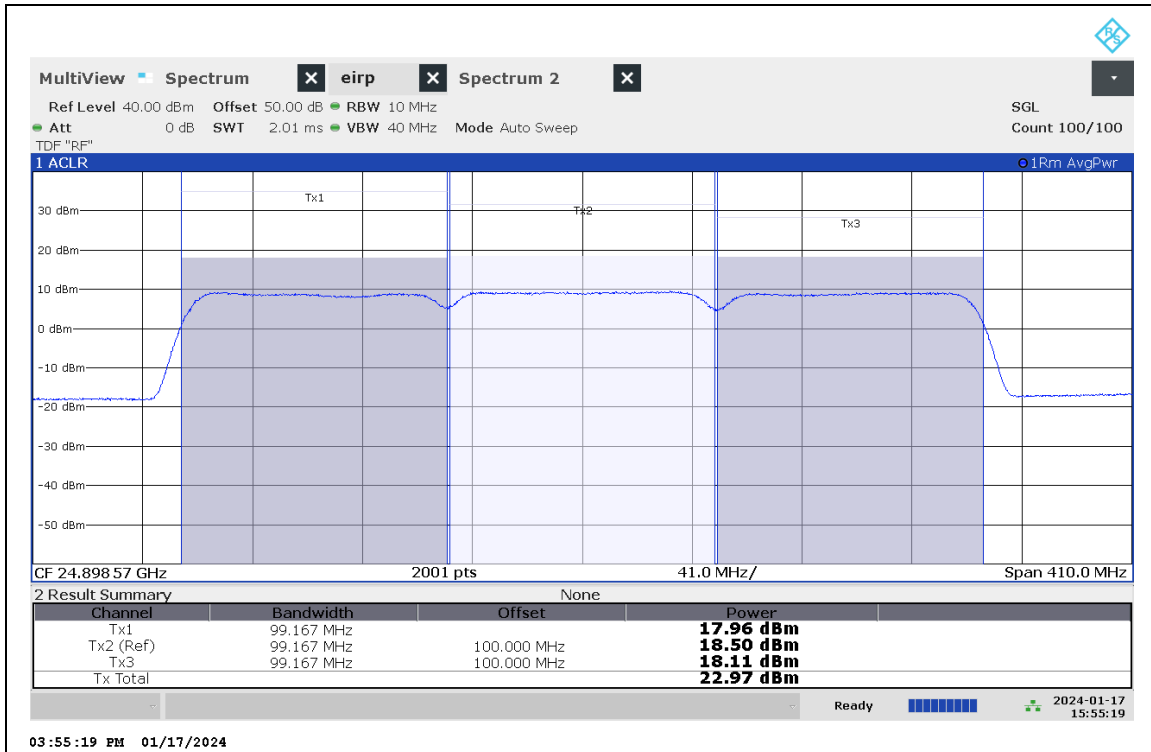


Low Channel, 100MHz Bandwidth

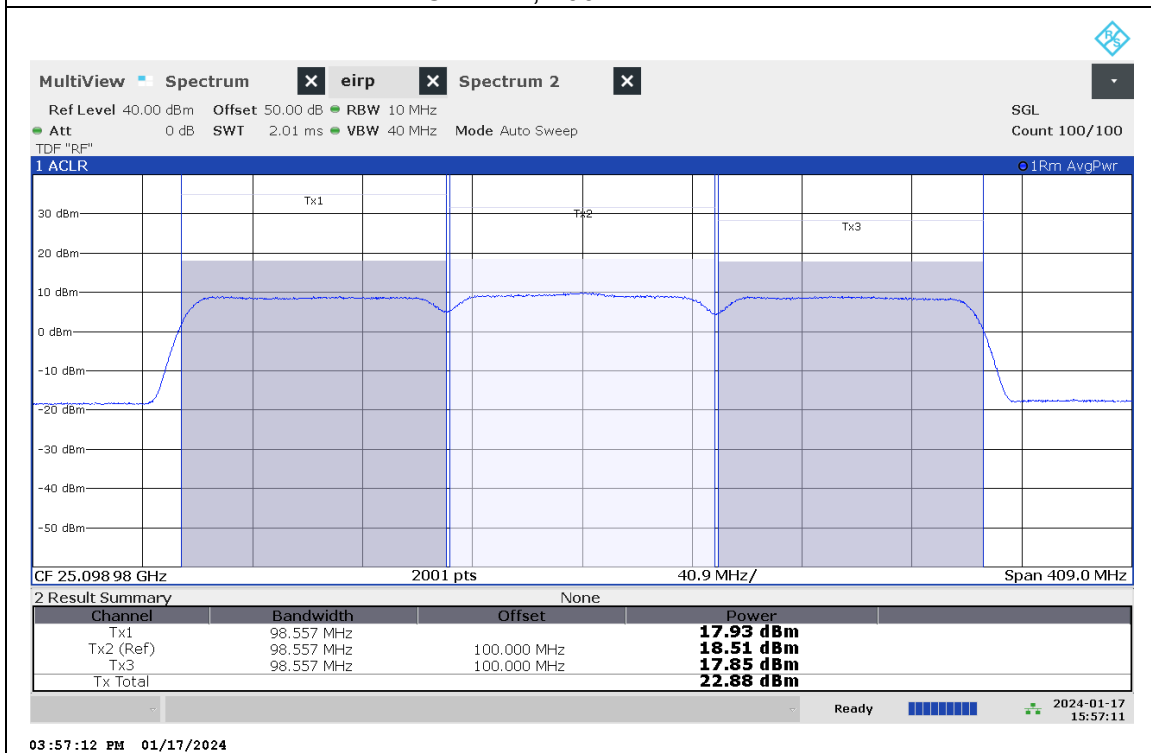


High Channel, 100MHz Bandwidth

n258 SB2, ANT 0, SISO (2TX), QPSK, 3CC

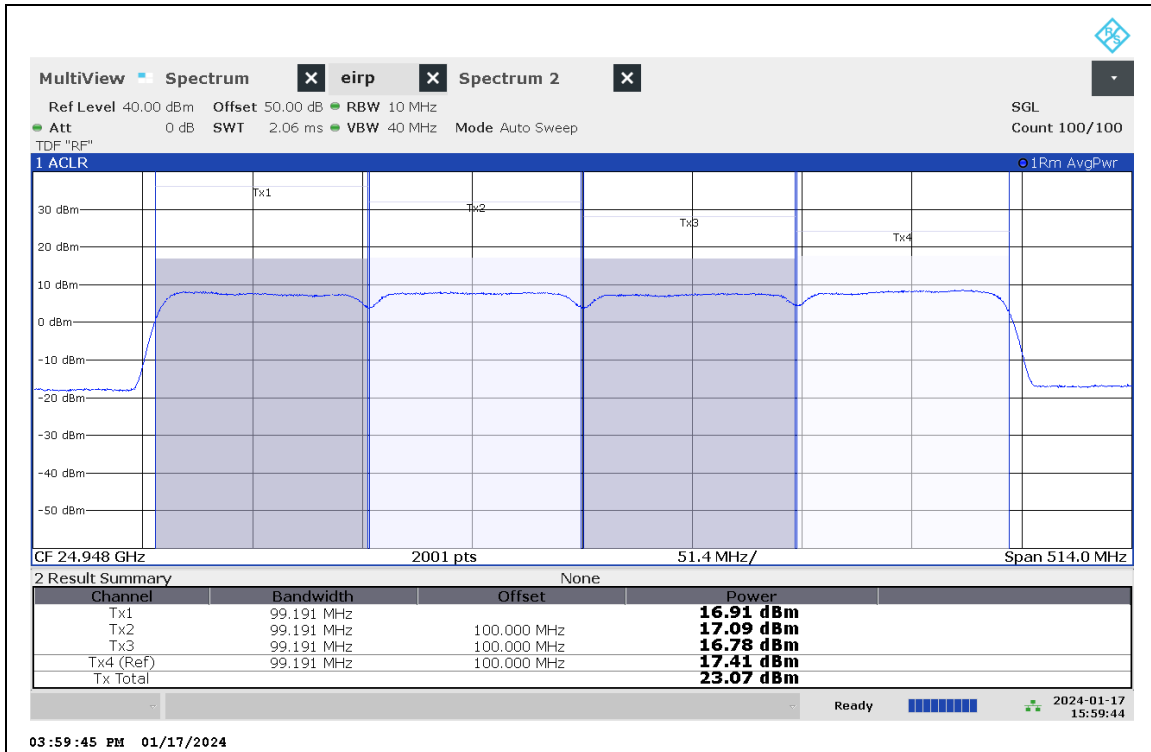


Low Channel, 100MHz Bandwidth

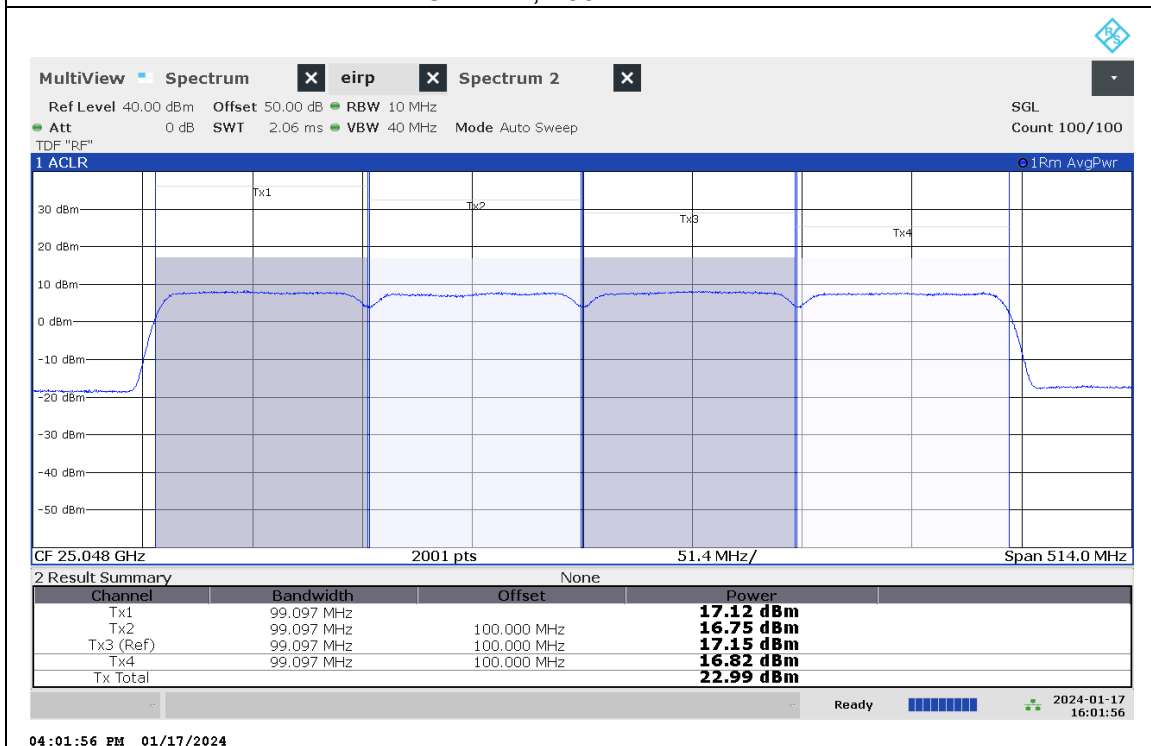


High Channel, 100MHz Bandwidth

n258 SB2, ANT 0, SISO (2TX), QPSK, 4CC



Low Channel, 100MHz Bandwidth



High Channel, 100MHz Bandwidth

8.2.2. n258 SB2 ANTENNA 1 RESULTS

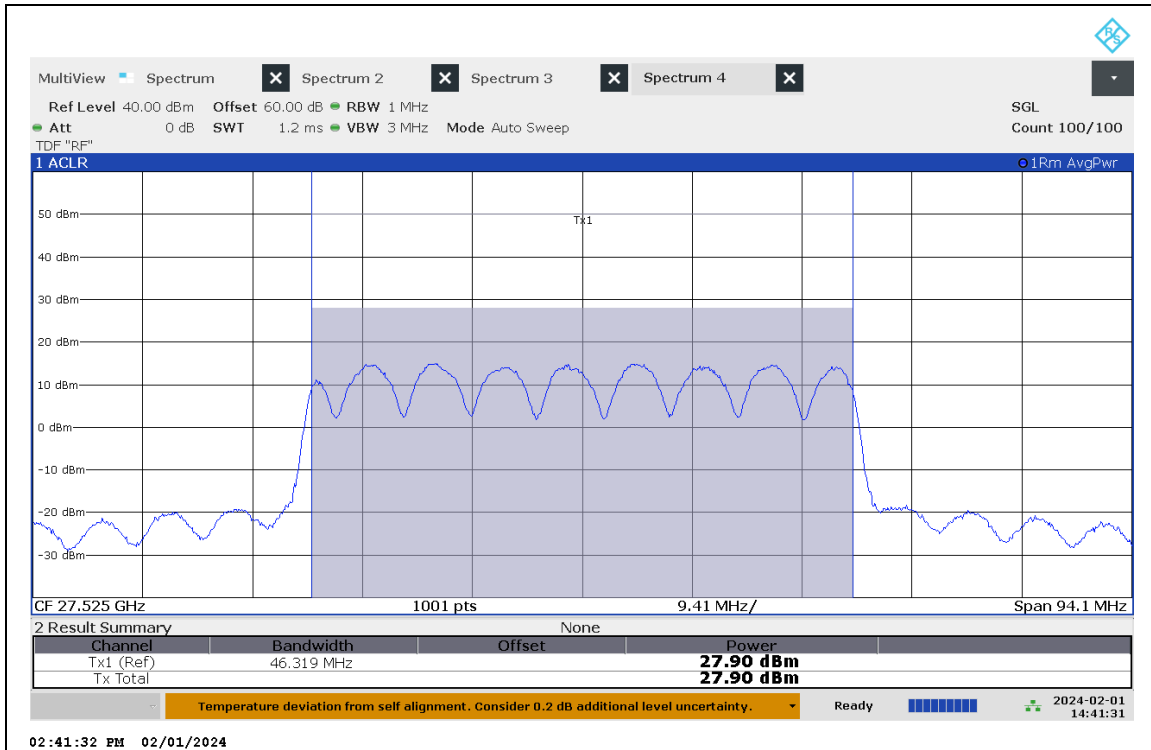
Modulation	Channel Bandwidth (MHz)	CCs Active	Control System	Channel	RB (Size/Offset)	Avg EIRP (dBm)	Limit (dBm)	Margin (dB)
QPSK	100	1	SISO (1TX)	Mid	1/31	22.29	43	-20.71
			SISO (2TX)	Low	1/0	26.69	43	-16.31
				Low	1/31	29.24	43	-13.76
				Low	64/0	26.38	43	-16.62
				Mid	1/31	29.43	43	-13.57
				High	1/31	29.71	43	-13.29
				High	1/63	26.67	43	-16.33
				High	64/0	26.99	43	-16.01
			MIMO	Low	66/0	24.33	43	-18.67
				Mid	66/0	24.64	43	-18.36
				Mid	1/32	25.6	43	-17.4
				High	66/0	25.02	43	-17.98
		2	SISO (1TX)	Mid	1/31	21.97	43	-21.03
			SISO (2TX)	Low	1/0	21.99	43	-21.01
				Low	64/0	24.56	43	-18.44
				Mid	1/0	22.45	43	-20.55
				Mid	1/31	22.63	43	-20.37
				Mid	1/63	21.72	43	-21.28
				High	1/63	22.09	43	-20.91
				High	64/0	25.16	43	-17.84
			MIMO	Low	66/0	22.39	43	-20.61
				Mid	66/0	22.68	43	-20.32
				Mid	1/32	21.77	43	-21.23
				High	66/0	22.95	43	-20.05
		3	SISO (1TX)	Mid	1/31	22.09	43	-20.91
			SISO (2TX)	Low	1/0	22.15	43	-20.85
				Low	64/0	24.58	43	-18.42
				Mid	1/0	22.59	43	-20.41
				Mid	1/31	22.93	43	-20.07
				Mid	1/63	21.79	43	-21.21
				High	1/63	21.49	43	-21.51
				High	64/0	24.99	43	-18.01
			MIMO	Low	66/0	22.44	43	-20.56
				Mid	66/0	22.8	43	-20.2
				Mid	1/32	21.88	43	-21.12
				High	66/0	22.89	43	-20.11
		4	SISO (1TX)	Mid	1/31	21.98	43	-21.02
			SISO (2TX)	Low	1/0	21.66	43	-21.34
				Low	64/0	24.71	43	-18.29
				Mid	1/0	22.83	43	-20.17
				Mid	1/31	21.5	43	-21.5
				Mid	1/63	21.48	43	-21.52
				High	1/63	21.64	43	-21.36
				High	64/0	24.91	43	-18.09
			MIMO	Low	66/0	21.56	43	-21.44
				Mid	66/0	22.80	43	-20.2
				Mid	1/32	21.82	43	-21.18
				High	66/0	22.82	43	-20.18
PI/2 BPSK	100	1	SISO (2TX)	Mid	1/31	29.36	43	-13.64
16QAM					1/31	27.34	43	-15.66
64QAM					1/31	25.63	43	-17.37

8.2.3. n261 ANTENNA 0 RESULTS

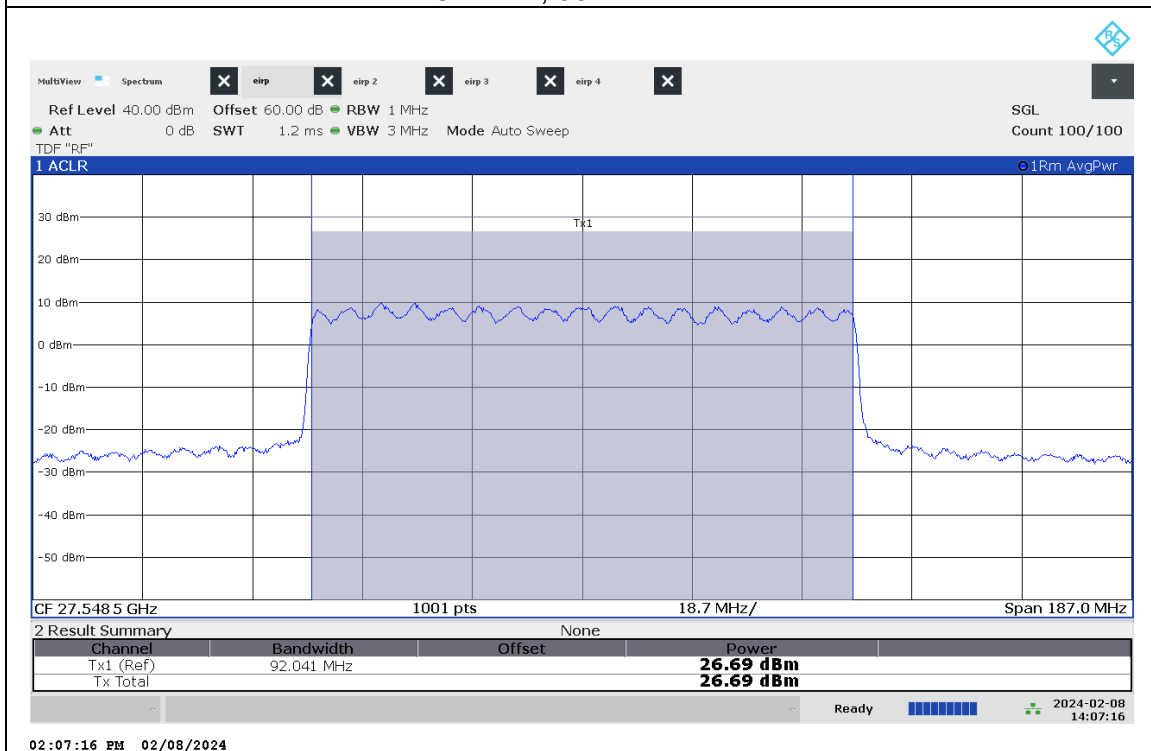
Modulation	Channel Bandwidth (MHz)	CCs Active	Control System	Channel	RB (Size/Offset)	Avg EIRP (dBm)	Limit (dBm)	Margin (dB)	
QPSK	50	1	SISO (1TX)	Mid	1/15	26.25	43	-16.75	
			SISO (2TX)	Low	1/0	29.62	43	-13.38	
				Low	1/15	31.73	43	-11.27	
				Low	32/0	27.90	43	-15.1	
				Mid	1/15	31.97	43	-11.03	
				High	1/15	31.49	43	-11.51	
				High	1/31	26.51	43	-16.49	
				High	32/0	26.94	43	-16.06	
			MIMO	Low	32/0	24.34	43	-18.66	
				Mid	32/0	24.61	43	-18.39	
				Mid	1/15	25.74	43	-17.26	
				High	32/0	24.71	43	-18.29	
	100		SISO (1TX)	Mid	1/31	26.14	43	-16.86	
			SISO (2TX)	Low	1/0	26.04	43	-16.96	
				Low	1/31	30.58	43	-12.42	
				Low	64/0	26.69	43	-16.31	
				Mid	1/31	30.14	43	-12.86	
				High	1/31	30.74	43	-12.26	
				High	1/63	27.40	43	-15.6	
				High	64/0	27.07	43	-15.93	
			MIMO	Low	66/0	24.18	43	-18.82	
				Mid	66/0	24.65	43	-18.35	
				Mid	1/32	25.82	43	-17.18	
				High	66/0	24.90	43	-18.1	
	100		2	SISO (1TX)	Mid	1/31	21.55	43	-21.45
				SISO (2TX)	Low	1/0	24.11	43	-18.89
					Low	64/0	24.52	43	-18.48
					Mid	1/0	23.56	43	-19.44
					Mid	1/31	22.82	43	-20.18
					Mid	1/63	24.21	43	-18.79
					High	1/63	25.02	43	-17.98
					High	64/0	25.00	43	-18
				MIMO	Low	66/0	22.26	43	-20.74
					Mid	66/0	22.58	43	-20.42
					Mid	1/32	22.56	43	-20.44
					High	66/0	22.78	43	-20.22

Modulation	Channel Bandwidth (MHz)	CCs Active	Control System	Channel	RB (Size/Offset)	Avg EIRP (dBm)	Limit (dBm)	Margin (dB)
QPSK	100	3	SISO (1TX)	Mid	1/31	21.73	43	-21.27
			SISO (2TX)	Low	1/0	23.15	43	-19.85
				Low	64/0	24.67	43	-18.33
				Mid	1/0	22.86	43	-20.14
				Mid	1/31	23.45	43	-19.55
				Mid	1/63	24.67	43	-18.33
				High	1/63	24.42	43	-18.58
				High	64/0	24.92	43	-18.08
			MIMO	Low	66/0	22.91	43	-20.09
				Mid	66/0	22.71	43	-20.29
				Mid	1/32	22.82	43	-20.18
				High	66/0	22.83	43	-20.17
	100	4	SISO (1TX)	Mid	1/31	21.80	43	-21.2
			SISO (2TX)	Low	1/0	22.05	43	-20.95
				Low	64/0	24.73	43	-18.27
				Mid	1/0	23.05	43	-19.95
				Mid	1/31	23.42	43	-19.58
				Mid	1/63	24.49	43	-18.51
				High	1/63	24.24	43	-18.76
				High	64/0	24.89	43	-18.11
			MIMO	Low	66/0	22.68	43	-20.32
				Mid	66/0	22.74	43	-20.26
				Mid	1/32	23.06	43	-19.94
				High	66/0	22.86	43	-20.14
PI/2 BPSK	50	1	SISO (2TX)	Mid	1/15	31.30	43	-11.7
	100				1/31	29.17	43	-13.83
16QAM	50	1	SISO (2TX)	Mid	1/15	29.50	43	-13.5
	100				1/31	26.72	43	-16.28
64QAM	50	1	SISO (2TX)	Mid	1/15	27.31	43	-15.69
	100				1/31	25.09	43	-17.91

n261, ANT 0, SISO (2TX), QPSK, 1CC



Low Channel, 50MHz Bandwidth

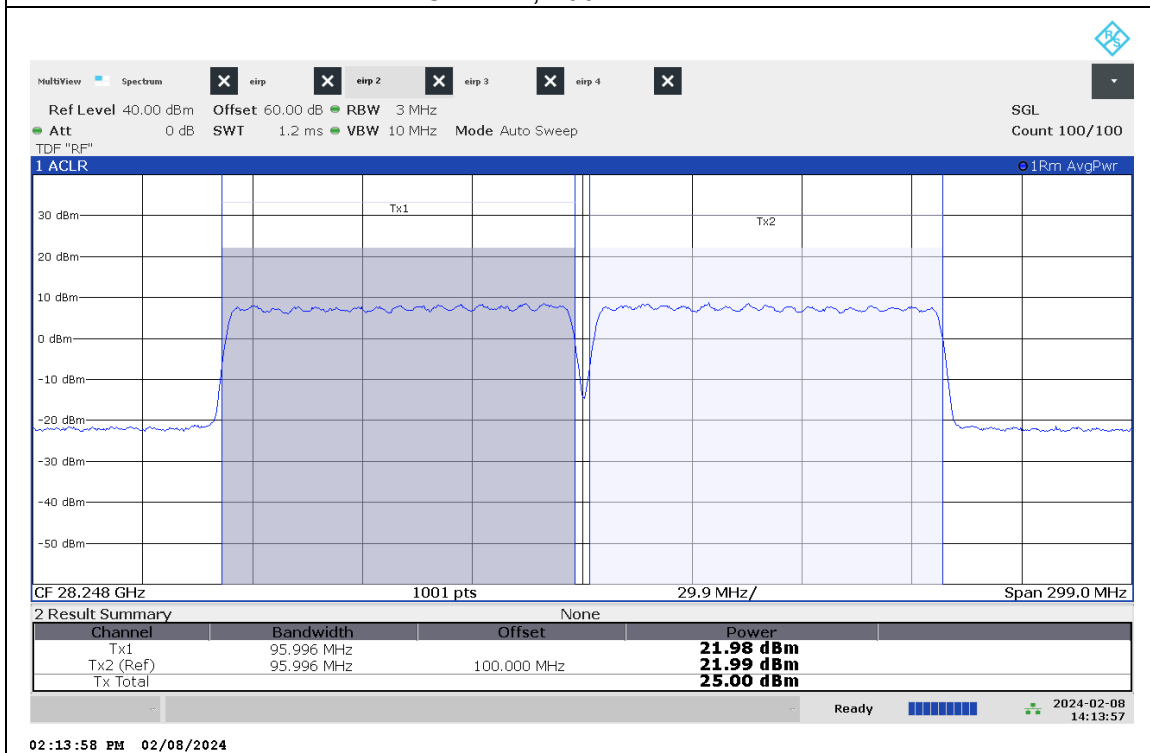


Low Channel, 100MHz Bandwidth

n261, ANT 0, SISO (2TX), QPSK, 2CC

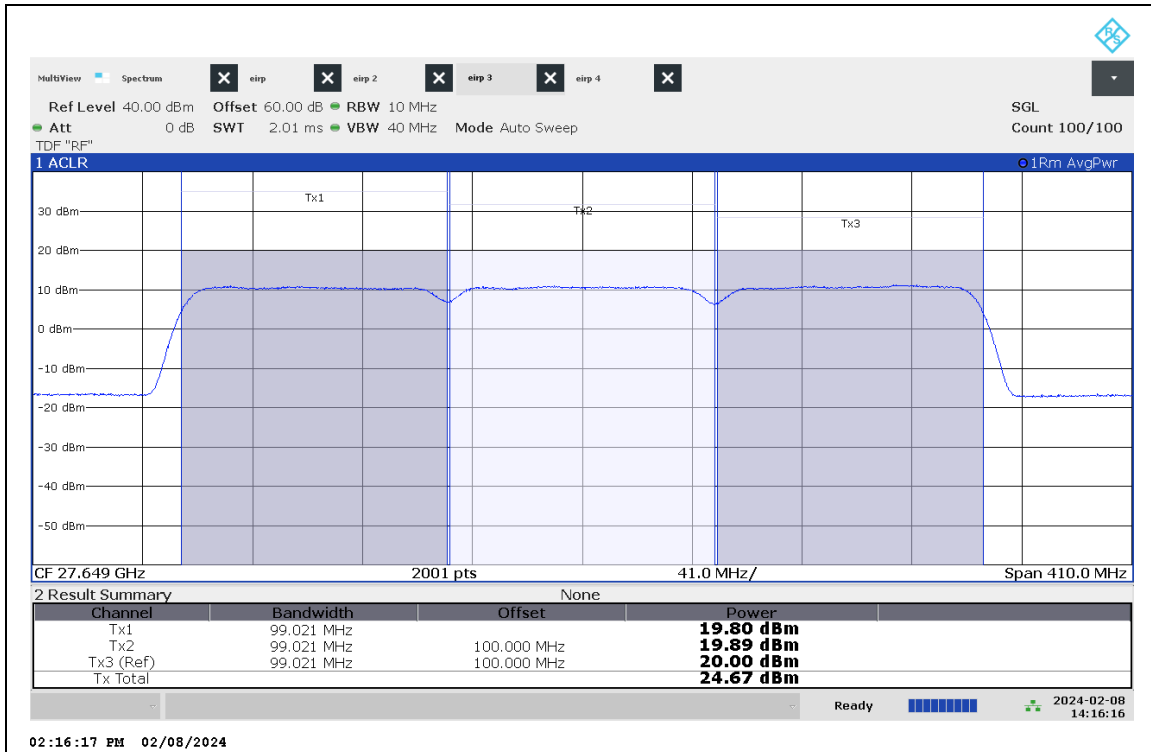


Low Channel, 100MHz Bandwidth

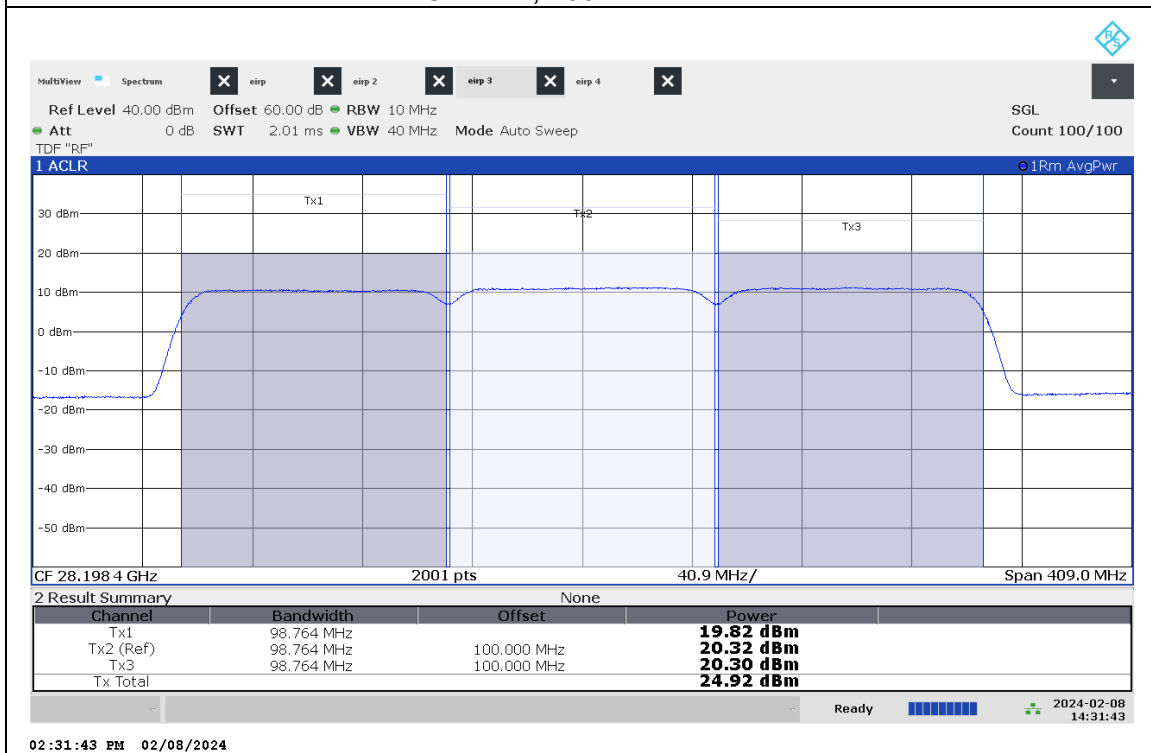


High Channel, 100MHz Bandwidth

n261, ANT 0, SISO (2TX), QPSK, 3CC

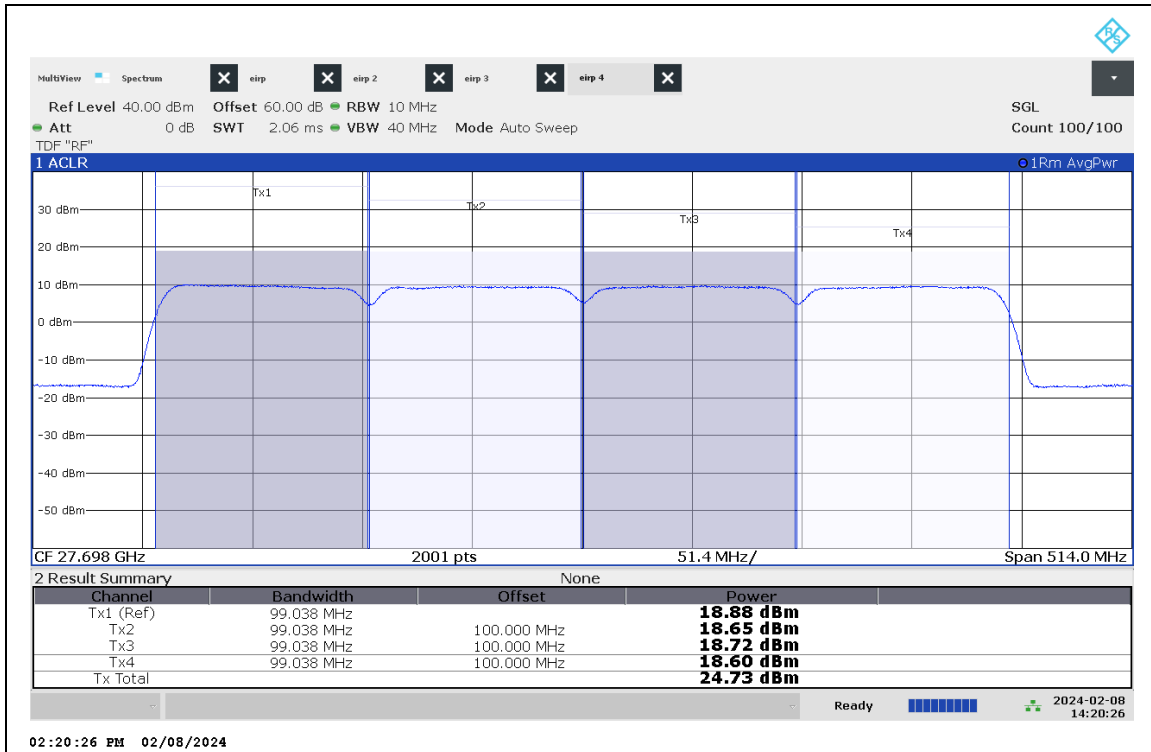


Low Channel, 100MHz Bandwidth

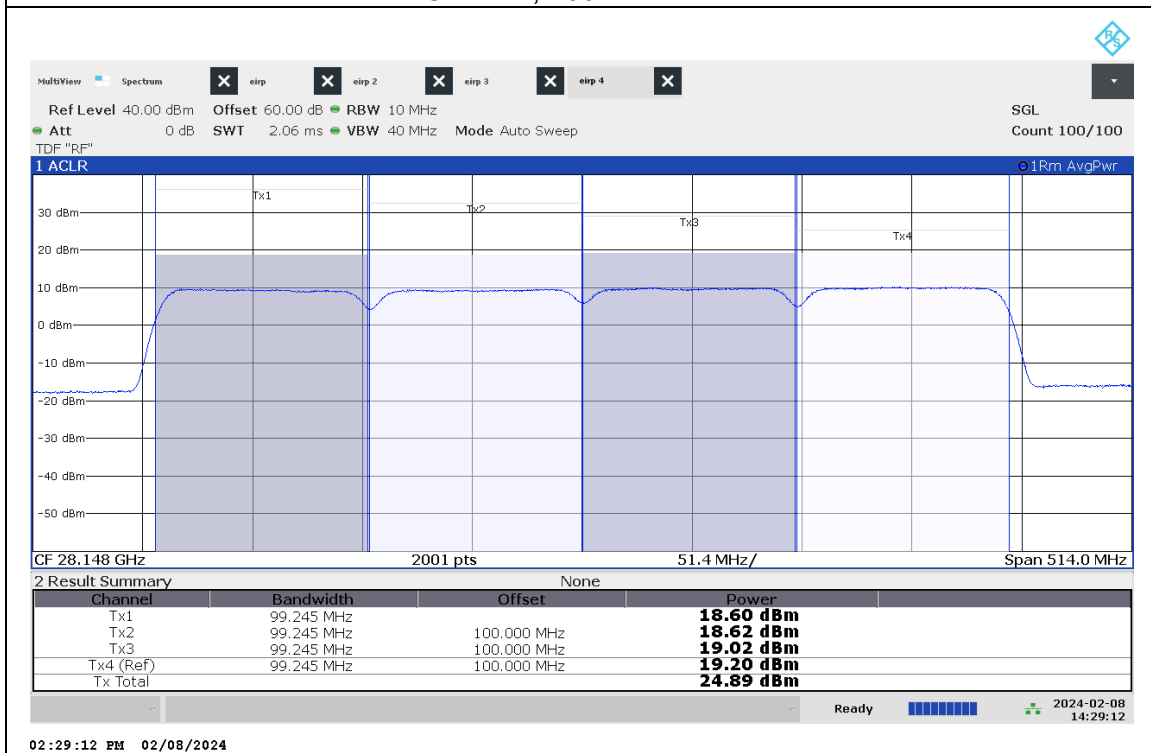


High Channel, 100MHz Bandwidth

n261, ANT 0, SISO (2TX), QPSK, 4CC



Low Channel, 100MHz Bandwidth



High Channel, 100MHz Bandwidth

8.2.4. n261 ANTENNA 1 RESULTS

Modulation	Channel Bandwidth (MHz)	CCs Active	Control System	Channel	RB (Size/Offset)	Avg EIRP (dBm)	Limit (dBm)	Margin (dB)
QPSK	50	1	SISO (1TX)	Mid	1/15	25.66	43	-17.34
			SISO (2TX)	Low	1/0	28.42	43	-14.58
				Low	1/15	28.22	43	-14.78
				Low	32/0	26.60	43	-16.4
				Mid	1/15	27.85	43	-15.15
				High	1/15	27.90	43	-15.1
				High	1/31	27.19	43	-15.81
				High	32/0	25.80	43	-17.2
			MIMO	Low	32/0	24.69	43	-18.31
				Mid	32/0	25.36	43	-17.64
				Mid	1/15	26.48	43	-16.52
				High	32/0	24.30	43	-18.7
	100		SISO (1TX)	Mid	1/31	25.62	43	-17.38
			SISO (2TX)	Low	1/0	28.29	43	-14.71
				Low	1/31	30.48	43	-12.52
				Low	64/0	26.82	43	-16.18
				Mid	1/31	29.78	43	-13.22
				High	1/31	29.84	43	-13.16
				High	1/63	27.59	43	-15.41
				High	64/0	25.67	43	-17.33
			MIMO	Low	66/0	24.48	43	-18.52
				Mid	66/0	25.27	43	-17.73
				Mid	1/32	26.65	43	-16.35
				High	66/0	24.46	43	-18.54
	100	2	SISO (1TX)	Mid	1/31	20.62	43	-22.38
			SISO (2TX)	Low	1/0	24.38	43	-18.62
				Low	64/0	24.82	43	-18.18
				Mid	1/0	25.03	43	-17.97
				Mid	1/31	24.61	43	-18.39
				Mid	1/63	24.65	43	-18.35
				High	1/63	24.21	43	-18.79
				High	64/0	24.66	43	-18.34
			MIMO	Low	66/0	22.59	43	-20.41
				Mid	66/0	23.16	43	-19.84
				Mid	1/32	21.99	43	-21.01
				High	66/0	22.36	43	-20.64

Modulation	Channel Bandwidth (MHz)	CCs Active	Control System	Channel	RB (Size/Offset)	Avg EIRP (dBm)	Limit (dBm)	Margin (dB)
QPSK	100	3	SISO (1TX)	Mid	1/31	20.59	43	-22.41
			SISO (2TX)	Low	1/0	24.64	43	-18.36
				Low	1/31	25.16	43	-17.84
				Mid	1/0	24.68	43	-18.32
				Mid	1/31	25.03	43	-17.97
				Mid	1/63	24.71	43	-18.29
				High	1/63	23.70	43	-19.3
				High	64/0	24.75	43	-18.25
			MIMO	Low	66/0	23.26	43	-19.74
				Mid	66/0	23.28	43	-19.72
				Mid	1/32	22.49	43	-20.51
				High	66/0	22.56	43	-20.44
	100	4	SISO (1TX)	Mid	1/31	20.70	43	-22.3
			SISO (2TX)	Low	1/0	24.19	43	-18.81
				Low	64/0	25.22	43	-17.78
				Mid	1/0	24.32	43	-18.68
				Mid	1/31	24.49	43	-18.51
				Mid	1/63	23.15	43	-19.85
				High	1/63	22.98	43	-20.02
				High	64/0	24.90	43	-18.1
			MIMO	Low	66/0	23.08	43	-19.92
				Mid	66/0	23.22	43	-19.78
				Mid	1/32	22.24	43	-20.76
				High	66/0	22.77	43	-20.23
PI/2 BPSK	50	1	SISO (2TX)	Mid	1/15	27.79	43	-15.21
	100				1/31	29.83	43	-13.17
16QAM	50	1	SISO (2TX)	Mid	1/15	25.60	43	-17.4
	100				1/31	27.37	43	-15.63
64QAM	50	1	SISO (2TX)	Mid	1/15	23.87	43	-19.13
	100				1/31	25.83	43	-17.17

8.3. BAND EDGE EMISSIONS

RULE PART(S)

FCC: §2.1051, §30.203

LIMITS

30.203 (a) - The conductive power or the total radiated power of any emission outside a licensee's frequency block shall be -13 dBm/MHz or lower. However, in the bands immediately outside and adjacent to the licensee's frequency block, having a bandwidth equal to 10 percent of the channel bandwidth, the conductive power or the total radiated power of any emission shall be -5 dBm/MHz or lower.

TEST PROCEDURE

- RBW = 1 MHz
- VBW $\geq 3 \times$ RBW
- Number of measurement points in sweep $> 2 \times$ span / RBW
- Sweep time = auto-couple
- Detector = Power RMS
- Trace mode = Average

KDB 842590 D01 Upper Microwave Flexible Use Service v01r02 Section 4.4.2
ANSI C63.26-2015 Clause 5.2, Clause 5.5, Clause 6.4, and Annex C.5.2

All Band Edge emissions were measured as EIRP to compare with the §30.203 TRP limits to demonstrate compliance.

Band Edge measurements of variable frequency bands were performed at the far field test distance listed in Section 5.

EIRP was calculated using the equations on ANSI C63.26-2015 Annex C.5.2. The total correction factors of horn antenna gain, cable loss and far-field path loss were calculated using equations C.8 and C.9, and pre-loaded into spectrum analyzer at the time of test. The tabular data factors in EUT antenna gain to calculate the Final Adjusted EIRP of Band Edge emissions.

Sample calculation of EIRP:

$$\begin{aligned}\text{Total Correction Factor} &= \text{Cable Loss (dB)} - \text{Horn Ant Gain (dBi)} + \text{Path Loss @ 3m (dB)} \\ &= 4 - 23 + 71 \\ &= 52 \text{ dB}\end{aligned}$$

EIRP on Display Plot = P_{measured} (dBm), where Total Correction Factor preloaded.

Final Adjusted EIRP = P_{measured} (dBm) – EUT Antenna Gain

Worse-Case Configuration

PI/2 BPSK, QPSK, 16QAM and 64QAM modulations were all investigated in SISO 2TX mode on both antennas, since the highest band edge emissions were for the SISO 2TX antenna configuration consistent with this also being the configuration with the highest EIRP. The SISO 2TX configuration was, therefore, used for the final band-edge measurements to represent worst-case of both SISO 1TX and SISO 2TX modes. Additional measurements were made with QPSK modulation on the MIMO mode as it has a wider bandwidth than the SISO 2TX mode. Single RB (highest power) and Full RB allocations were measured.

Band edge measurements for multi-carrier (2CC – 4CC) QPSK modulated operations with Single RB and Full RB allocations were investigated in each carrier in the (50 MHz + 50 MHz) and (100 MHz + 100 MHz) modes. Note that inter-modulation products which can be seen in the band edge plots are evaluated as part of the radiated spurious emission measurements.

To minimize report size, plots of worst-case SISO 2TX and MIMO, QPSK of both channel bandwidths on Antenna 0 are provided to demonstrate the test parameter setting on signal analyzer. The tabular data includes data for the PI/2 BPSK, 16QAM and 64QAM modulations.

RESULTS

See the following pages.

TESTED BY

Employee IDs: 11322, 23854

Test Dates: 2024-01-11 to 2024-02-08

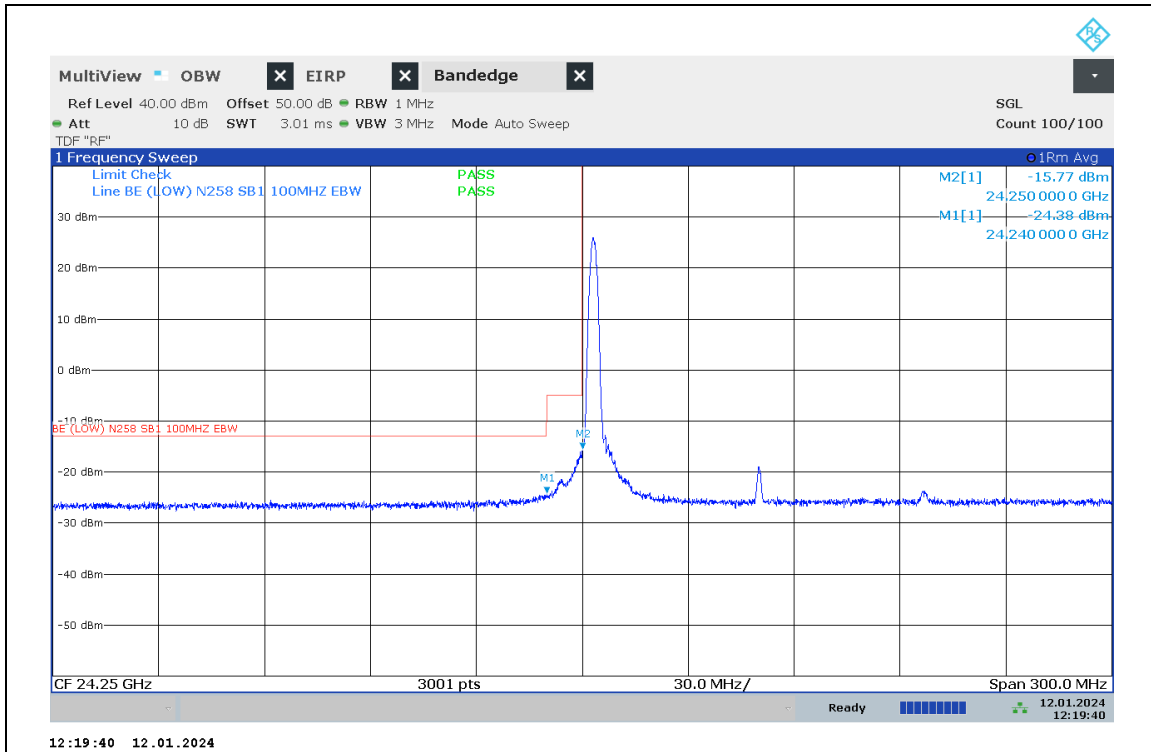
Test Location: Chamber 3, Chamber 5

8.3.1. n258 SB1 1CC 100MHz BANDWIDTH RESULTS

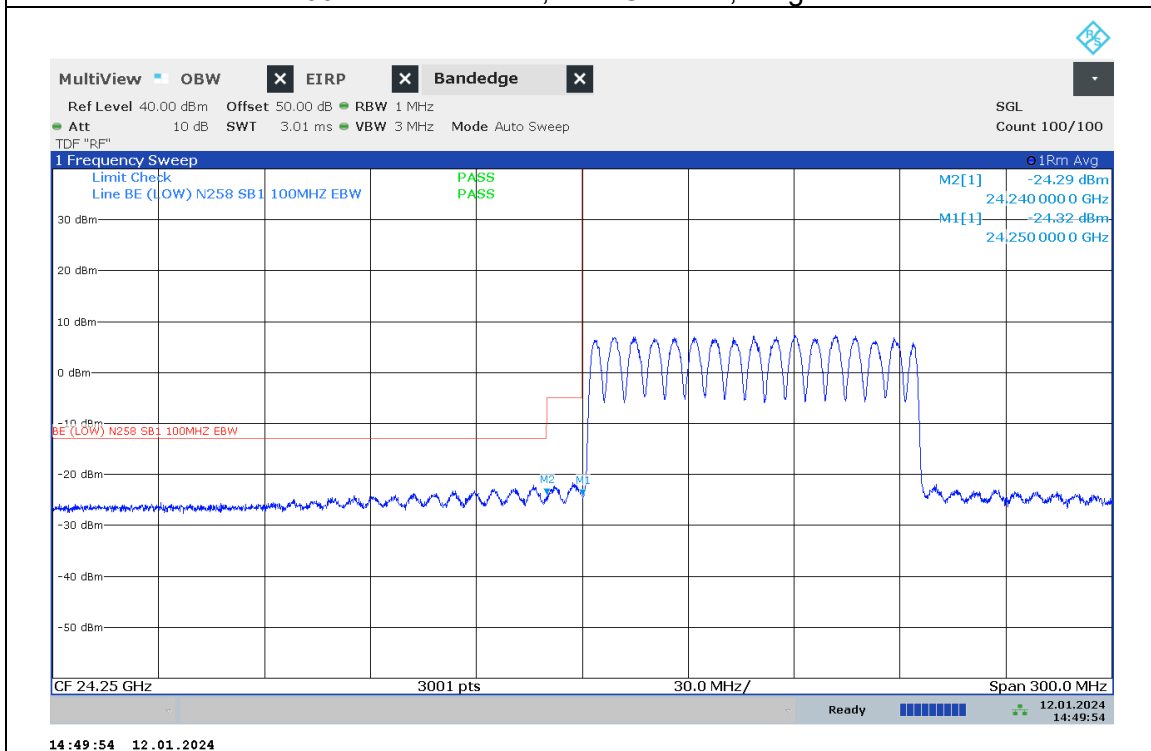
Modulation	Antenna	Control System	RB (Size/Offset)	Channel	Frequency (GHz)	Avg EIRP (dBm)	EUT Ant Gain (dBi)	Adj. EIRP (dBm)	Avg TRP Limit (dBm)	Margin (dB)
QPSK	ANT0	SISO 2TX	1/0	Low	24.24	-24.38	8.7	-33.08	-13	-20.08
					24.45	-15.77	8.7	-24.47	-5	-19.47
			64/0	Low	24.24	-24.29	8.7	-32.99	-13	-19.99
					24.45	-24.32	8.7	-33.02	-5	-28.02
			1/63	High	24.45	-20.45	8.7	-29.15	-5	-24.15
					24.46	-25.38	8.7	-34.08	-13	-21.08
		MIMO	64/0	High	24.45	-21.91	8.7	-30.61	-5	-25.61
					24.46	-24.61	8.7	-33.31	-13	-20.31
			1/0	Low	24.24	-25.84	8.7	-34.54	-13	-21.54
					24.45	-19.48	8.7	-28.18	-5	-23.18
			66/0	Low	24.24	-22.33	8.7	-31.03	-13	-18.03
					24.45	-21.01	8.7	-29.71	-5	-24.71
			1/65	High	24.45	-18.77	8.7	-27.47	-5	-22.47
					24.46	-25.74	8.7	-34.44	-13	-21.44
			66/0	High	24.45	-23.29	8.7	-31.99	-5	-26.99
					24.46	-23.96	8.7	-32.66	-13	-19.66
	ANT1	SISO 2TX	1/0	Low	24.24	-24.42	8.5	-32.92	-13	-19.92
					24.45	-24.21	8.5	-32.71	-5	-27.71
			64/0	Low	24.24	-22.54	8.5	-31.04	-13	-18.04
					24.45	-20.51	8.5	-29.01	-5	-24.01
			1/63	High	24.45	-23.64	8.5	-32.14	-5	-27.14
					24.46	-24.82	8.5	-33.32	-13	-20.32
		MIMO	64/0	High	24.45	-21.21	8.5	-29.71	-5	-24.71
					24.46	-23.18	8.5	-31.68	-13	-18.68
			1/0	Low	24.24	-25.09	8.5	-33.59	-13	-20.59
					24.45	-16.01	8.5	-24.51	-5	-19.51
			66/0	Low	24.24	-21.02	8.5	-29.52	-13	-16.52
					24.45	-20.65	8.5	-29.15	-5	-24.15
			1/65	High	24.45	-19.69	8.5	-28.19	-5	-23.19
					24.46	-25.93	8.5	-34.43	-13	-21.43
			66/0	High	24.45	-20.52	8.5	-29.02	-5	-24.02
					24.46	-21.65	8.5	-30.15	-13	-17.15

Modulation	Antenna	Control System	RB (Size/Offset)	Channel	Frequency (GHz)	Avg EIRP (dBm)	EUT Ant Gain (dBi)	Adj. EIRP (dBm)	Avg TRP Limit (dBm)	Margin (dB)
PI/2 BPSK	ANT0	SISO 2TX	64/0	Low	24.24	-24.32	8.7	-33.02	-13	-20.02
					24.45	-22.16	8.7	-30.86	-5	-25.86
			64/0	High	24.45	-23.65	8.7	-32.35	-5	-27.35
					24.46	-25.31	8.7	-34.01	-13	-21.01
	ANT1		64/0	Low	24.24	-22.69	8.5	-31.19	-13	-18.19
					24.45	-19.61	8.5	-28.11	-5	-23.11
			64/0	High	24.45	-21.94	8.5	-30.44	-5	-25.44
					24.46	-24.19	8.5	-32.69	-13	-19.69
16QAM	ANT0		64/0	Low	24.24	-25.06	8.7	-33.76	-13	-20.76
					24.45	-24.22	8.7	-32.92	-5	-27.92
			64/0	High	24.45	-25.3	8.7	-34	-5	-29
					24.46	-25.17	8.7	-33.87	-13	-20.87
	ANT1		64/0	Low	24.24	-23.66	8.5	-32.16	-13	-19.16
					24.45	-23.6	8.5	-32.1	-5	-27.1
			64/0	High	24.45	-22.19	8.5	-30.69	-5	-25.69
					24.46	-23.66	8.5	-32.16	-13	-19.16
64QAM	ANT0		64/0	Low	24.24	-25.19	8.7	-33.89	-13	-20.89
					24.45	-24.09	8.7	-32.79	-5	-27.79
			64/0	High	24.45	-25.72	8.7	-34.42	-5	-29.42
					24.46	-25.69	8.7	-34.39	-13	-21.39
	ANT1		64/0	Low	24.24	-23.78	8.5	-32.28	-13	-19.28
					24.45	-23.91	8.5	-32.41	-5	-27.41
			64/0	High	24.45	-23.47	8.5	-31.97	-5	-26.97
					24.46	-24.67	8.5	-33.17	-13	-20.17

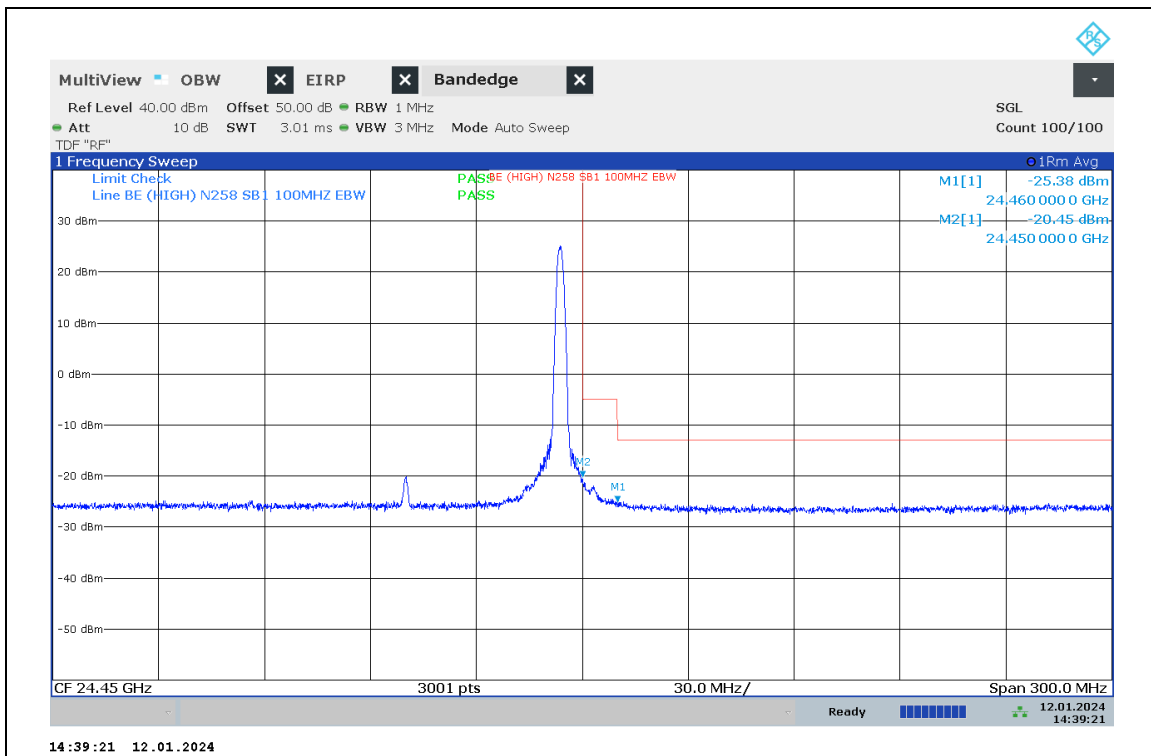
n258 SB1, ANT 0, SISO (2TX), QPSK, 1CC



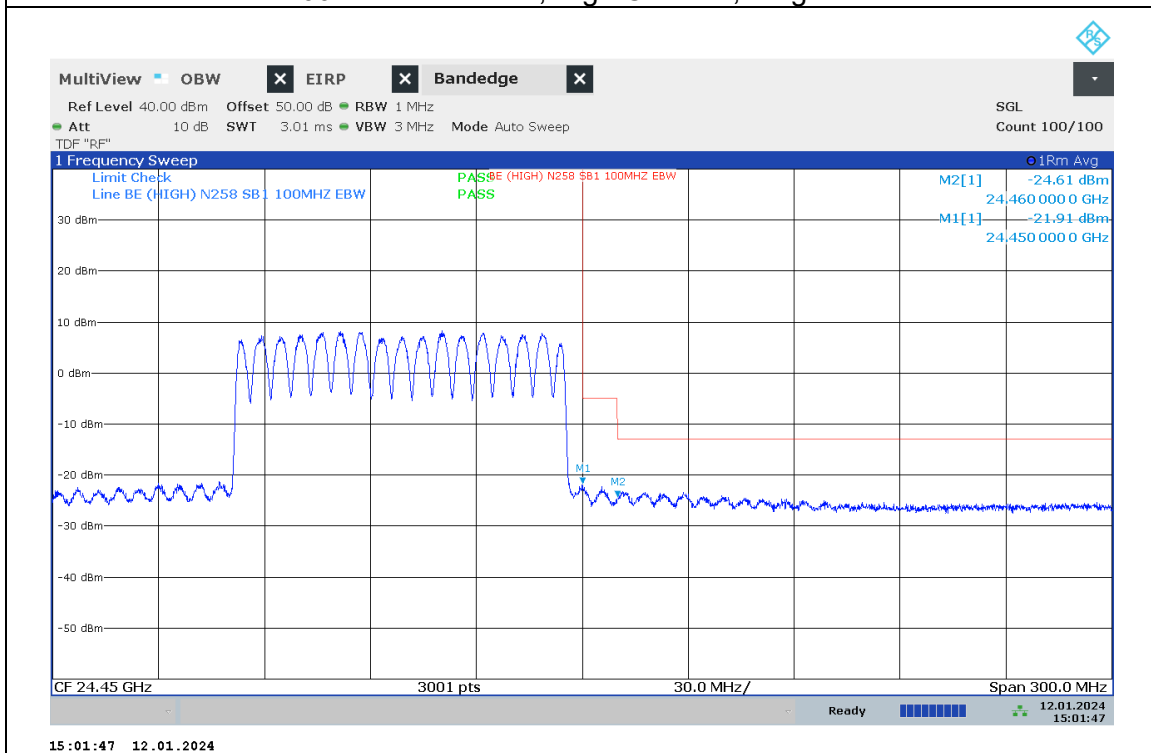
100MHz Bandwidth, Low Channel, Single RB



100MHz Bandwidth, Low Channel, Full RB

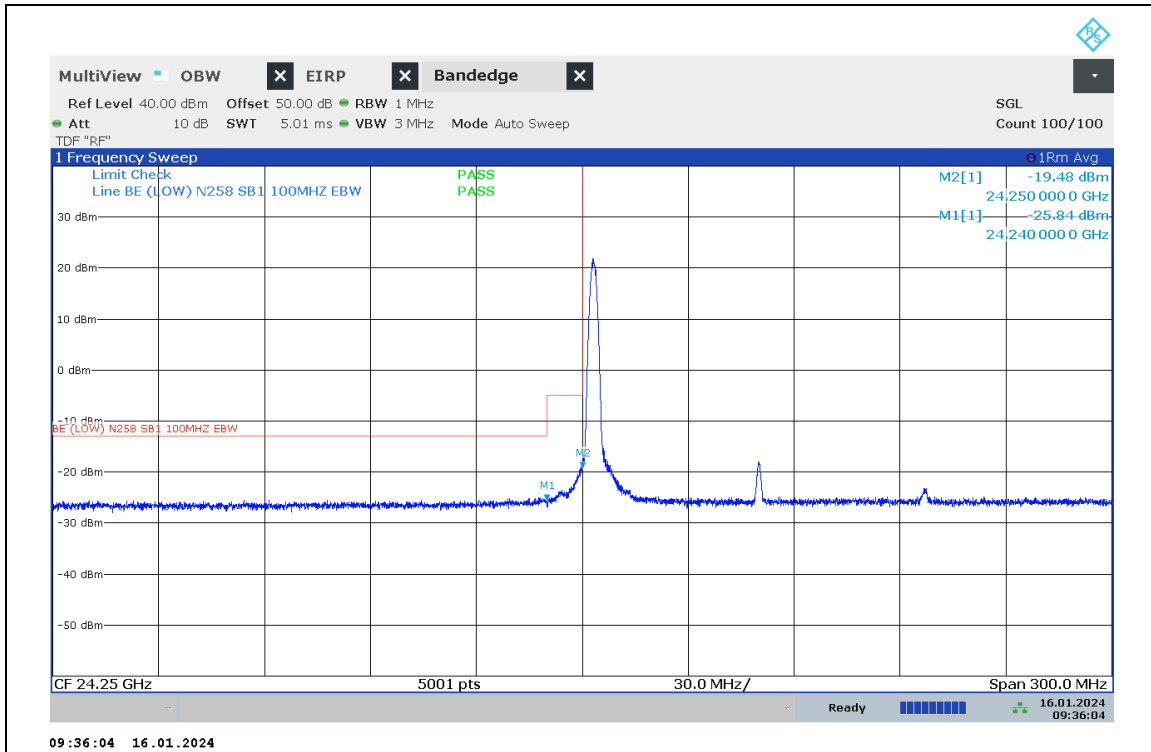


100MHz Bandwidth, High Channel, Single RB

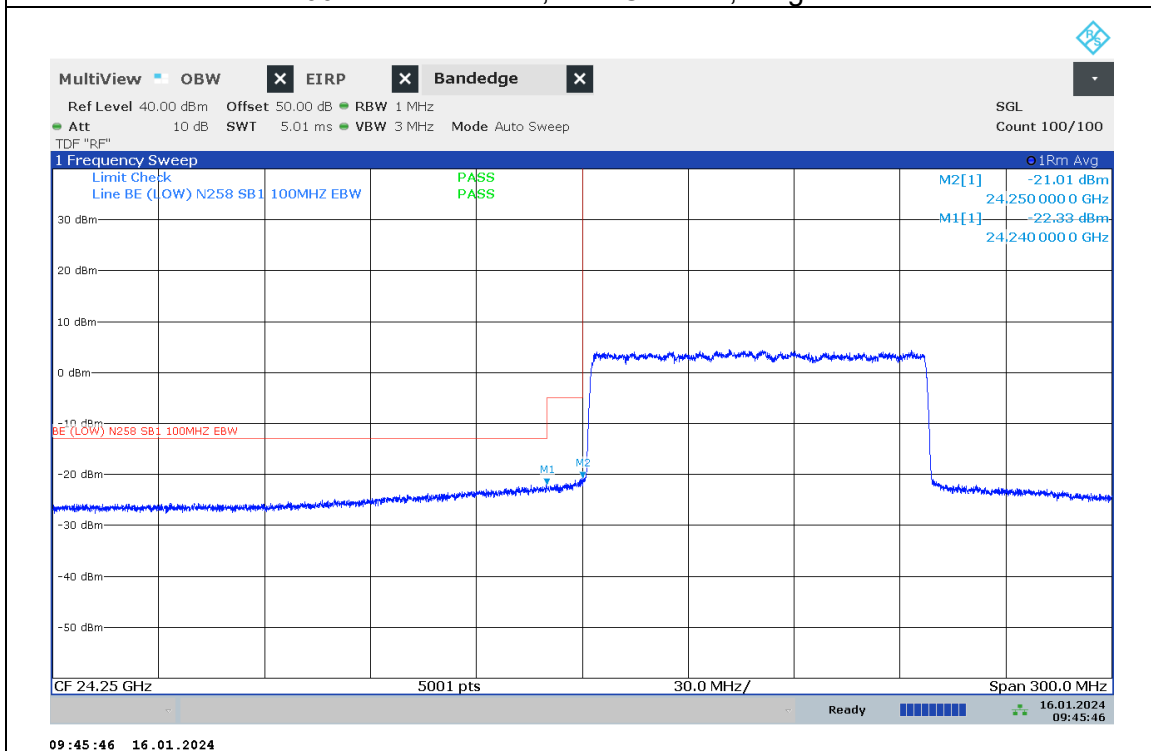


100MHz Bandwidth, High Channel, Full RB

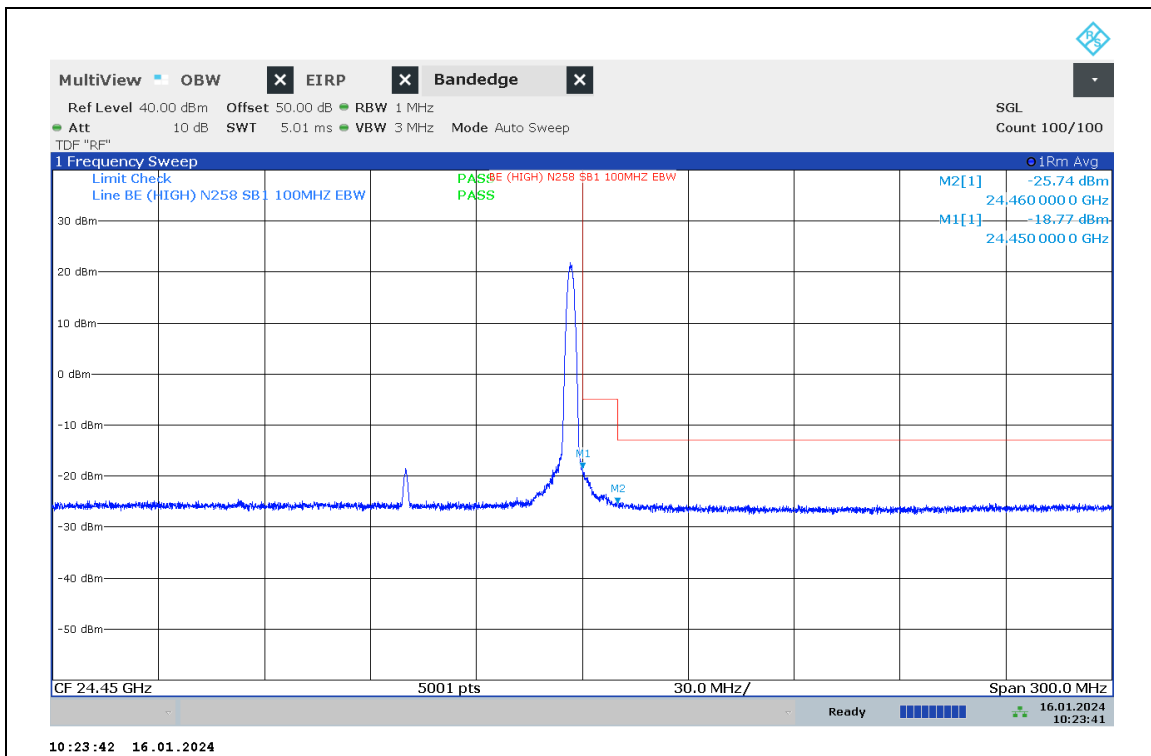
n258 SB1, ANT 0, MIMO, QPSK, 1CC



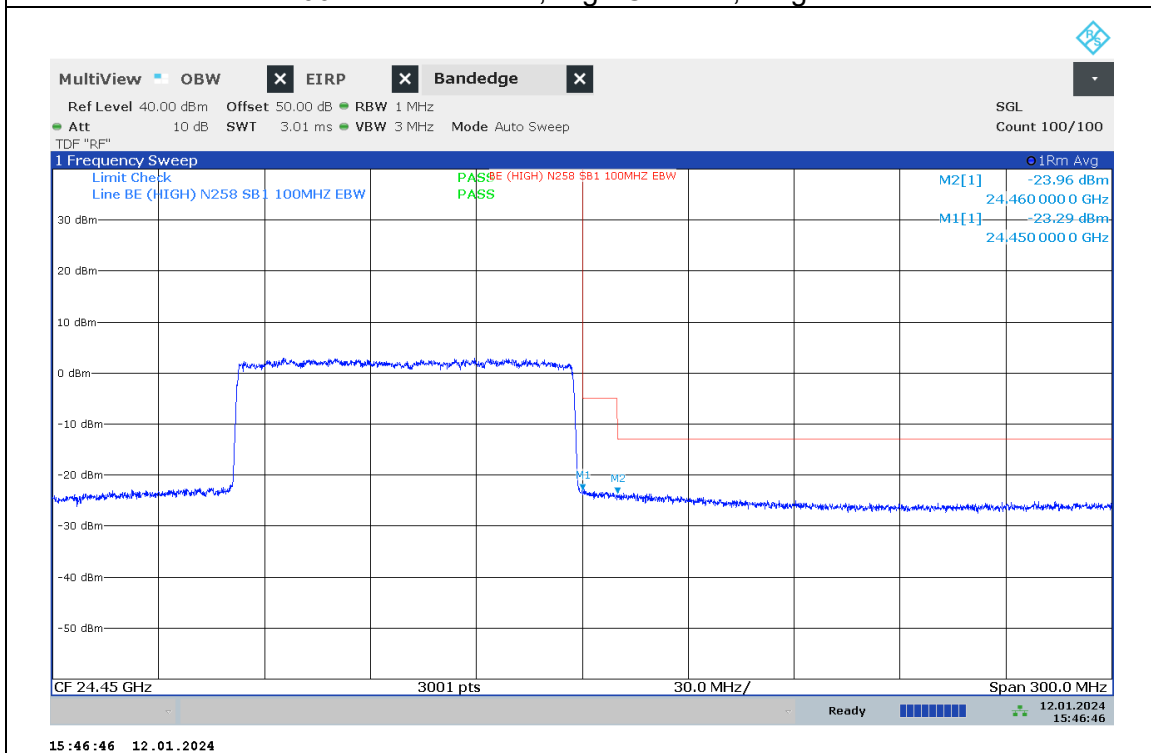
100MHz Bandwidth, Low Channel, Single RB



100MHz Bandwidth, Low Channel, Full RB



100MHz Bandwidth, High Channel, Single RB



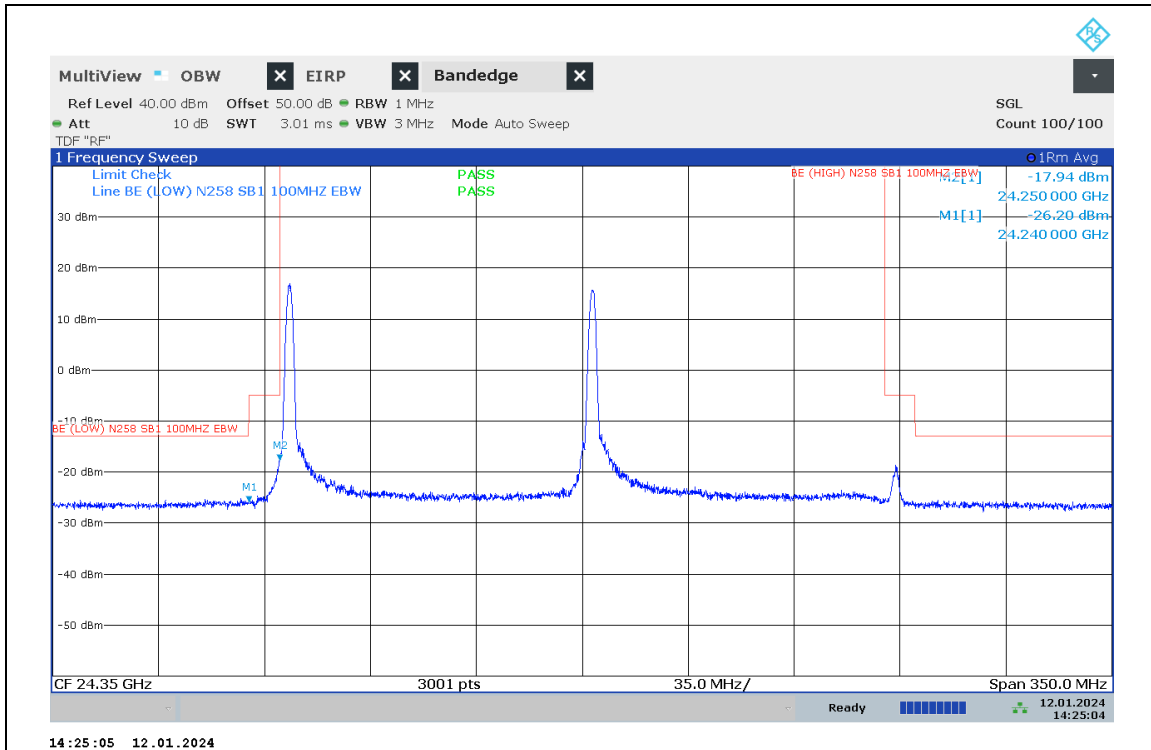
100MHz Bandwidth, High Channel, Full RB

8.3.2. n258 SB1 2CC 100MHz BANDWIDTH RESULTS

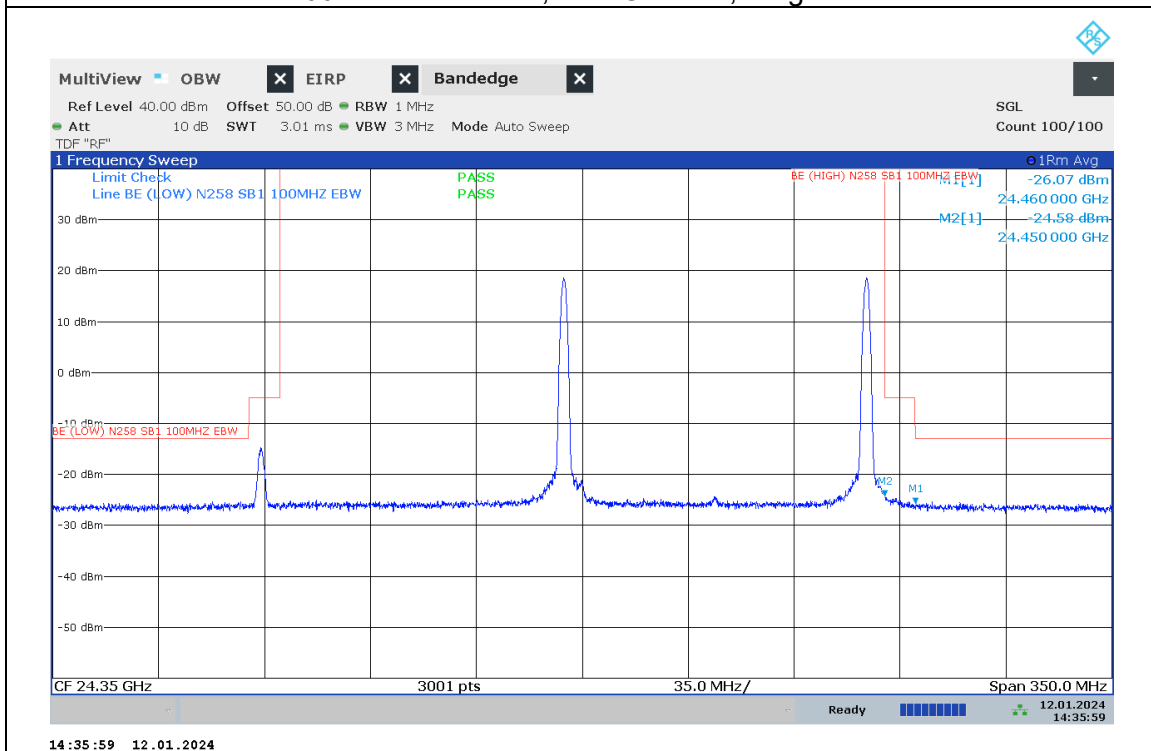
Modulation	Antenna	Control System	RB (Size/Offset)	Channel	Frequency (GHz)	Avg EIRP (dBm)	EUT Ant Gain (dBi)	Adj. EIRP (dBm)	Avg TRP Limit (dBm)	Margin (dB)
QPSK	ANT0	SISO 2TX	1/0	Low	24.24	-26.2	8.7	-34.9	-13	-21.9
					24.45	-17.94	8.7	-26.64	-5	-21.64
			1/63	High	24.45	-24.58	8.7	-33.28	-5	-28.28
					24.46	-26.07	8.7	-34.77	-13	-21.77
		MIMO	1/0	Low	24.24	-25.72	8.7	-34.42	-13	-21.42
					24.45	-23.42	8.7	-32.12	-5	-27.12
			66/0	Low	24.24	-25.29	8.7	-33.99	-13	-20.99
					24.45	-24.53	8.7	-33.23	-5	-28.23
			1/65	High	24.45	-23.42	8.7	-32.12	-5	-27.12
					24.46	-26.66	8.7	-35.36	-13	-22.36
			66/0	High	24.45	-25.44	8.7	-34.14	-5	-29.14
					24.46	-25.41	8.7	-34.11	-13	-21.11
	ANT1	SISO 2TX	1/0	Low	24.24	-26.2	8.5	-34.7	-13	-21.7
					24.45	-17.94	8.5	-26.44	-5	-21.44
			1/63	High	24.45	-24.58	8.5	-33.08	-5	-28.08
					24.46	-26.07	8.5	-34.57	-13	-21.57
		MIMO	1/0	Low	24.24	-25.72	8.5	-34.22	-13	-21.22
					24.45	-23.42	8.5	-31.92	-5	-26.92
			66/0	Low	24.24	-25.29	8.5	-33.79	-13	-20.79
					24.45	-24.53	8.5	-33.03	-5	-28.03
			1/65	High	24.45	-23.42	8.5	-31.92	-5	-26.92
					24.46	-26.66	8.5	-35.16	-13	-22.16
			66/0	High	24.45	-25.44	8.5	-33.94	-5	-28.94
					24.46	-25.41	8.5	-33.91	-13	-20.91

Modulation	Antenna	Control System	RB (Size/Offset)	Channel	Frequency (GHz)	Avg EIRP (dBm)	EUT Ant Gain (dBi)	Adj. EIRP (dBm)	Avg TRP Limit (dBm)	Margin (dB)
PI/2 BPSK	ANT0	SISO 2TX	64/0	Low	24.24	-24.27	8.7	-32.97	-13	-19.97
					24.45	-23.08	8.7	-31.78	-5	-26.78
			64/0	High	24.45	-23.53	8.7	-32.23	-5	-27.23
					24.46	-24.53	8.7	-33.23	-13	-20.23
	ANT1		64/0	Low	24.24	-22.72	8.5	-31.22	-13	-18.22
					24.45	-22.38	8.5	-30.88	-5	-25.88
			64/0	High	24.45	-22.98	8.5	-31.48	-5	-26.48
					24.46	-23.65	8.5	-32.15	-13	-19.15
16QAM	ANT0		64/0	Low	24.24	-25.69	8.7	-34.39	-13	-21.39
					24.45	-24.34	8.7	-33.04	-5	-28.04
			64/0	High	24.45	-25.94	8.7	-34.64	-5	-29.64
					24.46	-26.07	8.7	-34.77	-13	-21.77
	ANT1		64/0	Low	24.24	-23.57	8.5	-32.07	-13	-19.07
					24.45	-24.44	8.5	-32.94	-5	-27.94
			64/0	High	24.45	-23.82	8.5	-32.32	-5	-27.32
					24.46	-24.46	8.5	-32.96	-13	-19.96
64QAM	ANT0		64/0	Low	24.24	-26.29	8.7	-34.99	-13	-21.99
					24.45	-25.47	8.7	-34.17	-5	-29.17
			64/0	High	24.45	-25.77	8.7	-34.47	-5	-29.47
					24.46	-26.5	8.7	-35.2	-13	-22.2
	ANT1		64/0	Low	24.24	-25.12	8.5	-33.62	-13	-20.62
					24.45	-24.56	8.5	-33.06	-5	-28.06
			64/0	High	24.45	-24.86	8.5	-33.36	-5	-28.36
					24.46	-25.13	8.5	-33.63	-13	-20.63

n258 SB1, ANT 0, SISO (2TX), QPSK, 2CC

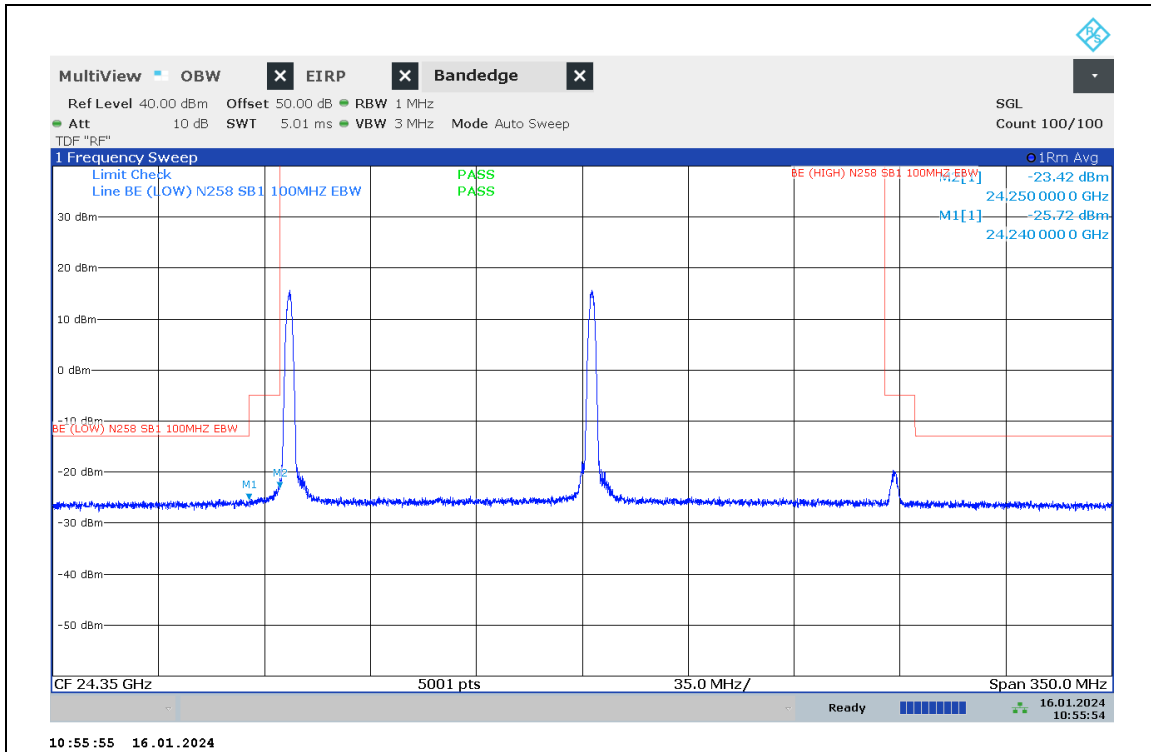


100MHz Bandwidth, Low Channel, Single RB

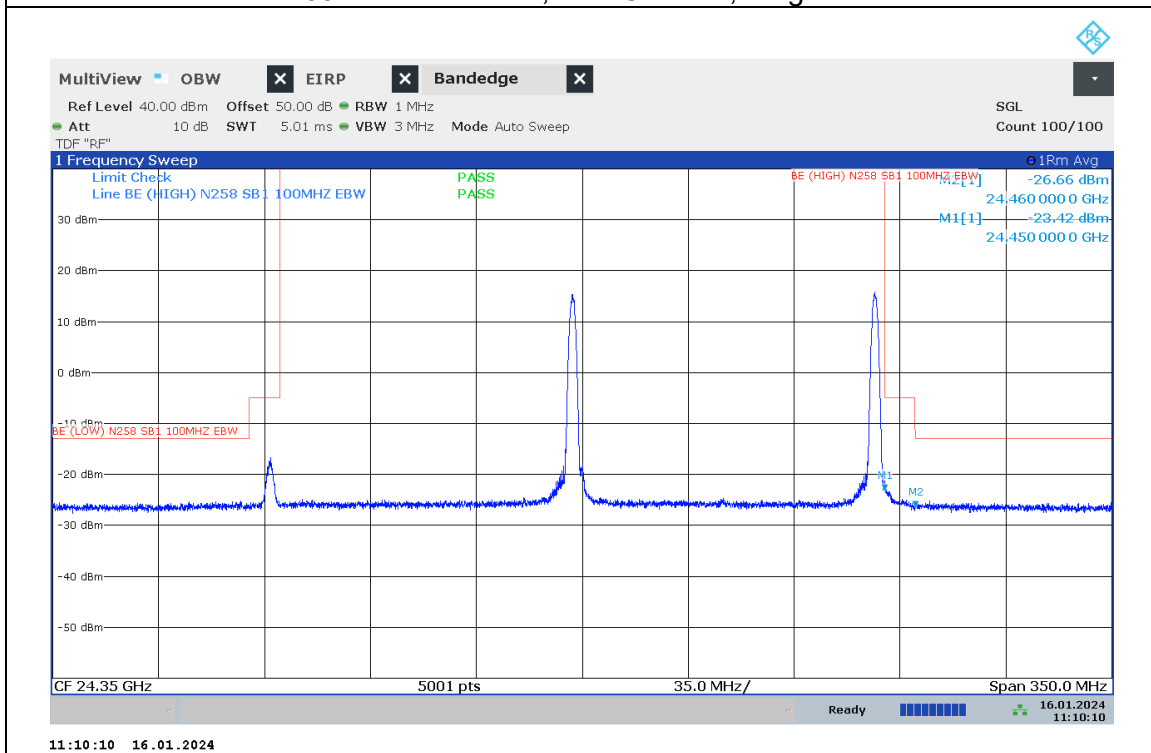


100MHz Bandwidth, High Channel, Single RB

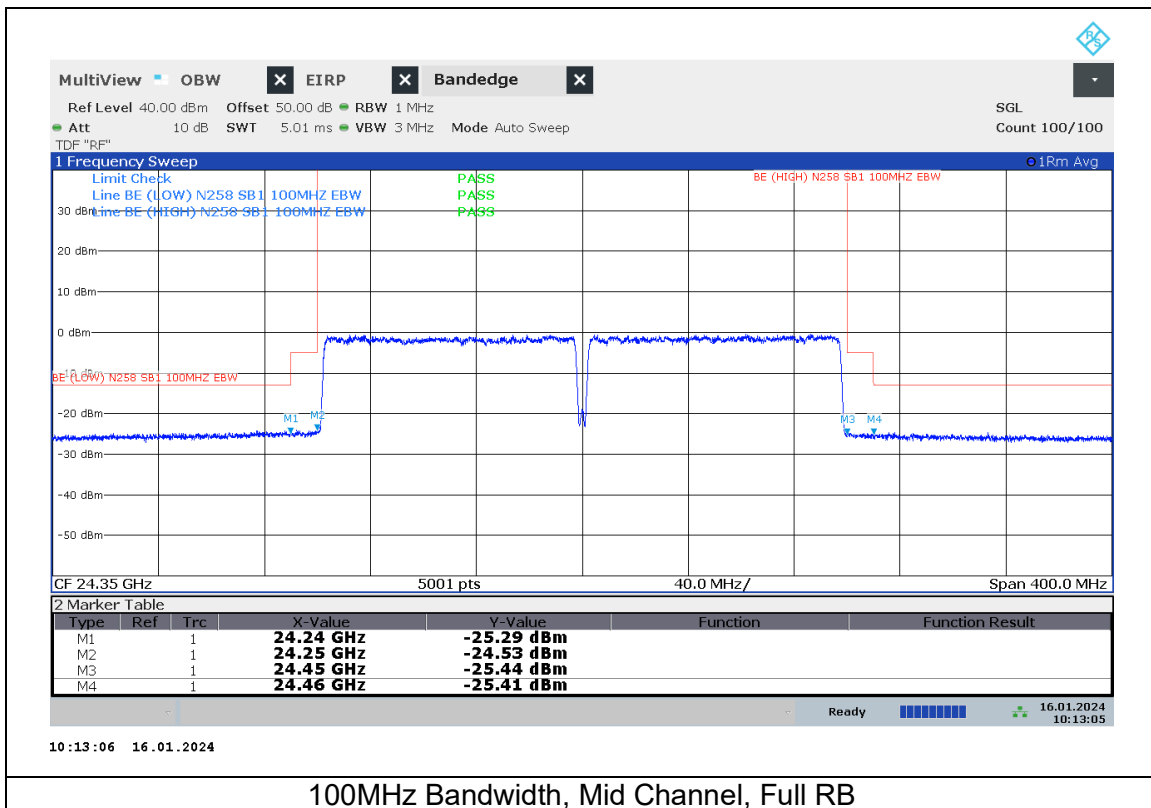
n258 SB1, ANT 0, MIMO, QPSK, 2CC



100MHz Bandwidth, Low Channel, Single RB



100MHz Bandwidth, High Channel, Single RB

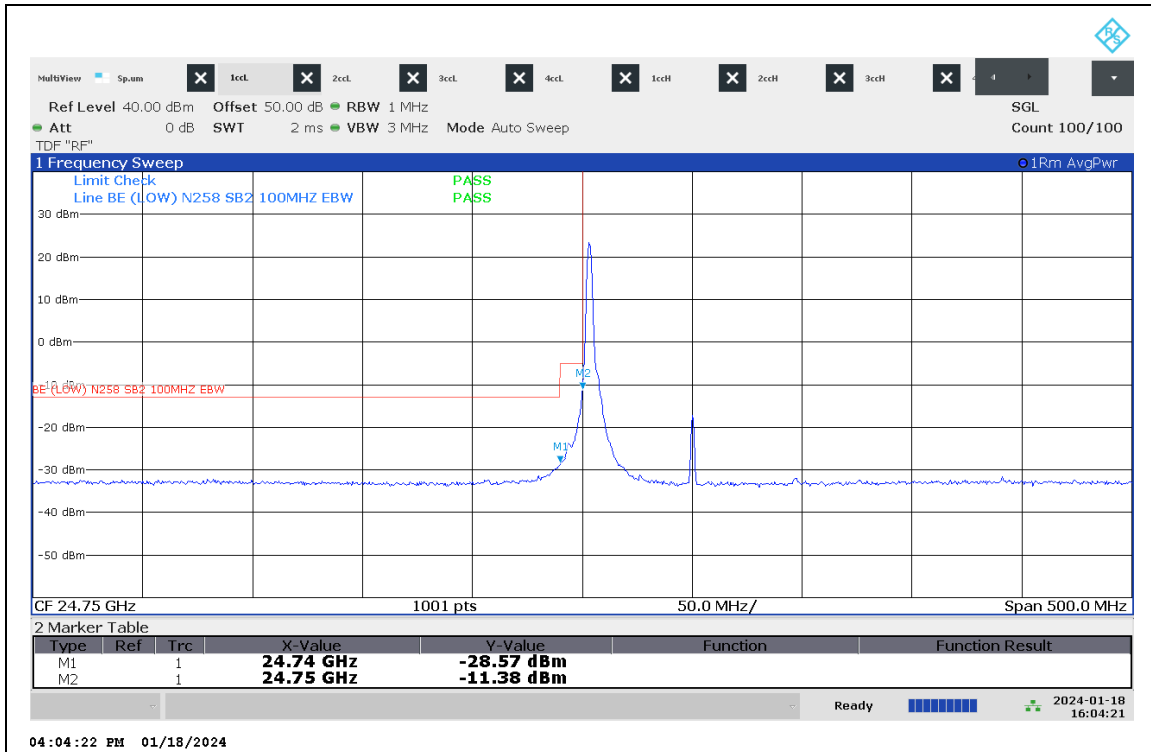


8.3.3. n258 SB2 1CC 100MHz BANDWIDTH RESULTS

Modulation	Antenna	Control System	RB (Size/Offset)	Channel	Frequency (GHz)	Avg EIRP (dBm)	EUT Ant Gain (dBi)	Adj. EIRP (dBm)	Avg TRP Limit (dBm)	Margin (dB)
QPSK	ANT0	SISO 2TX	1/0	Low	24.74	-28.57	8.7	-37.27	-13	-24.27
					24.75	-11.38	8.7	-20.08	-5	-15.08
			64/0	Low	24.74	-23.87	8.7	-32.57	-13	-19.57
					24.75	-22.75	8.7	-31.45	-5	-26.45
			1/63	High	25.25	-21.70	8.7	-30.4	-5	-25.4
					25.26	-30.27	8.7	-38.97	-13	-25.97
			64/0	High	25.25	-21.60	8.7	-30.3	-5	-25.3
					25.26	-23.63	8.7	-32.33	-13	-19.33
		MIMO	1/0	Low	24.74	-29.65	8.7	-38.35	-13	-25.35
					24.75	-11.52	8.7	-20.22	-5	-15.22
			66/0	Low	24.74	-24.15	8.7	-32.85	-13	-19.85
					24.75	-22.61	8.7	-31.31	-5	-26.31
			1/65	High	25.25	-14.74	8.7	-23.44	-5	-18.44
					25.26	-29.42	8.7	-38.12	-13	-25.12
			66/0	High	25.25	-22.35	8.7	-31.05	-5	-26.05
					25.26	-24.06	8.7	-32.76	-13	-19.76
	ANT1	SISO 2TX	1/0	Low	24.74	-31.72	8.5	-40.22	-13	-27.22
					24.75	-18.97	8.5	-27.47	-5	-22.47
			64/0	Low	24.74	-26.20	8.5	-34.7	-13	-21.7
					24.75	-25.75	8.5	-34.25	-5	-29.25
			1/63	High	25.25	-22.57	8.5	-31.07	-5	-26.07
					25.26	-31.48	8.5	-39.98	-13	-26.98
			64/0	High	25.25	-23.90	8.5	-32.4	-5	-27.4
					25.26	-23.10	8.5	-31.6	-13	-18.6
		MIMO	1/0	Low	24.74	-31.72	8.5	-40.22	-13	-27.22
					24.75	-14.56	8.5	-23.06	-5	-18.06
			66/0	Low	24.74	-25.73	8.5	-34.23	-13	-21.23
					24.75	-24.95	8.5	-33.45	-5	-28.45
			1/65	High	25.25	-12.36	8.5	-20.86	-5	-15.86
					25.26	-30.15	8.5	-38.65	-13	-25.65
			66/0	High	25.25	-22.26	8.5	-30.76	-5	-25.76
					25.26	-24.30	8.5	-32.8	-13	-19.8

Modulation	Antenna	Control System	RB (Size/Offset)	Channel	Frequency (GHz)	Avg EIRP (dBm)	EUT Ant Gain (dBi)	Adj. EIRP (dBm)	Avg TRP Limit (dBm)	Margin (dB)
PI/2 BPSK	ANT0	SISO 2TX	64/0	Low	24.74	-25.65	8.7	-34.35	-13	-21.35
					24.75	-22.32	8.7	-31.02	-5	-26.02
			64/0	High	25.25	-22.06	8.7	-30.76	-5	-25.76
					25.26	-25.93	8.7	-34.63	-13	-21.63
	ANT1		64/0	Low	24.74	-30.14	8.5	-38.64	-13	-25.64
					24.75	-22.69	8.5	-31.19	-5	-26.19
			64/0	High	25.25	-26.24	8.5	-34.74	-5	-29.74
					25.26	-26.18	8.5	-34.68	-13	-21.68
16QAM	ANT0		64/0	Low	24.74	-25.68	8.7	-34.38	-13	-21.38
					24.75	-24.11	8.7	-32.81	-5	-27.81
			64/0	High	25.25	-24.68	8.7	-33.38	-5	-28.38
					25.26	-26.48	8.7	-35.18	-13	-22.18
	ANT1		64/0	Low	24.74	-28.69	8.5	-37.19	-13	-24.19
					24.75	-27.17	8.5	-35.67	-5	-30.67
			64/0	High	25.25	-27.06	8.5	-35.56	-5	-30.56
					25.26	-26.37	8.5	-34.87	-13	-21.87
64QAM	ANT0		64/0	Low	24.74	-28.63	8.7	-37.33	-13	-24.33
					24.75	-26.60	8.7	-35.3	-5	-30.3
			64/0	High	25.25	-28.65	8.7	-37.35	-5	-32.35
					25.26	-29.77	8.7	-38.47	-13	-25.47
	ANT1		64/0	Low	24.74	-30.31	8.5	-38.81	-13	-25.81
					24.75	-28.92	8.5	-37.42	-5	-32.42
			64/0	High	25.25	-30.32	8.5	-38.82	-5	-33.82
					25.26	-30.26	8.5	-38.76	-13	-25.76

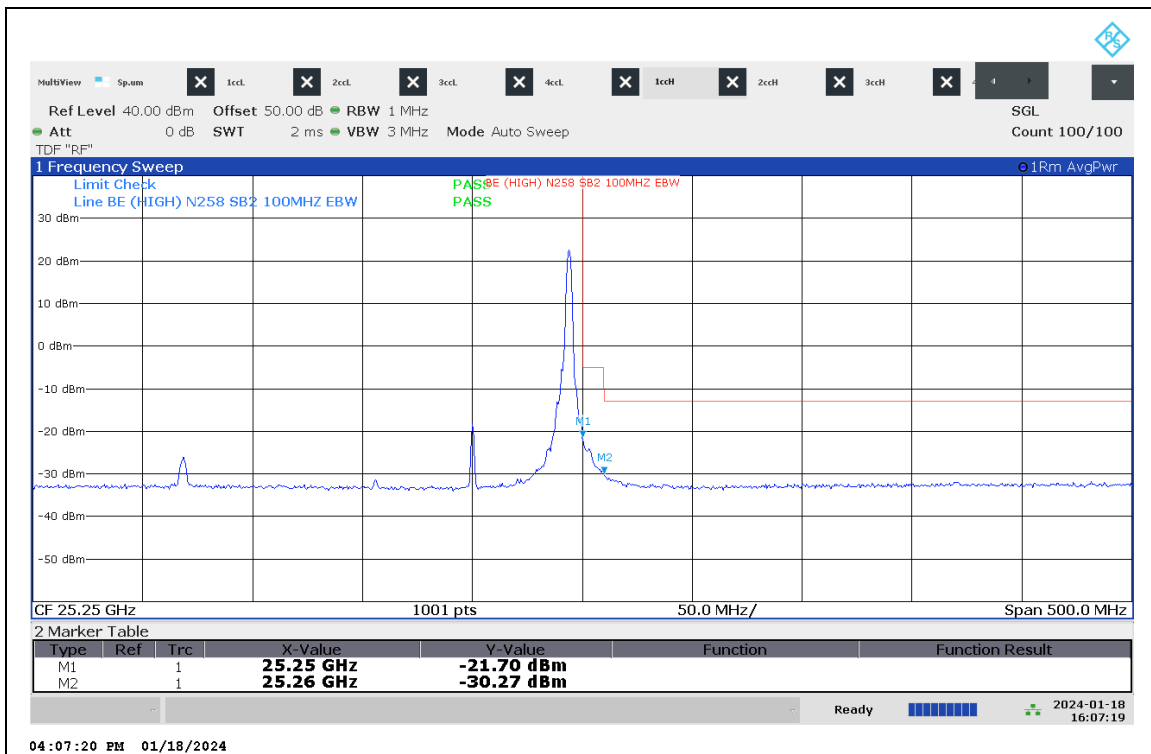
n258 SB2, ANT 0, SISO (2TX), QPSK, 1CC



100MHz Bandwidth, Low Channel, Single RB



100MHz Bandwidth, Low Channel, Full RB

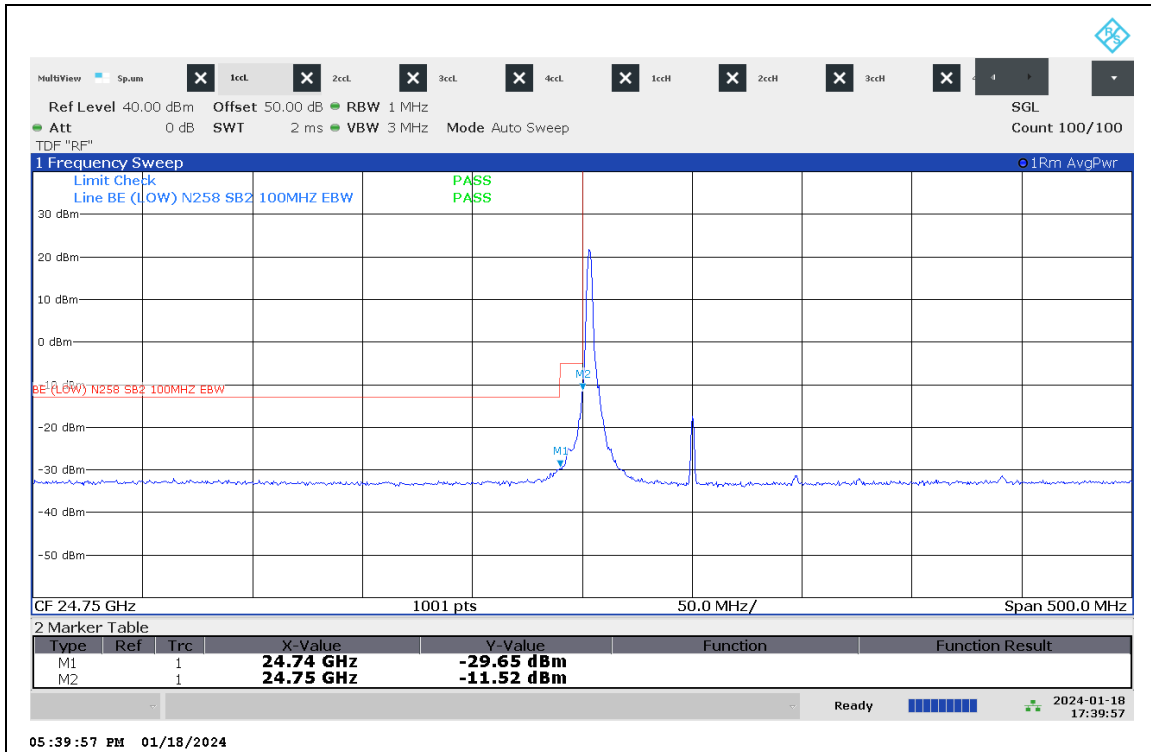


100MHz Bandwidth, High Channel, Single RB



100MHz Bandwidth, High Channel, Full RB

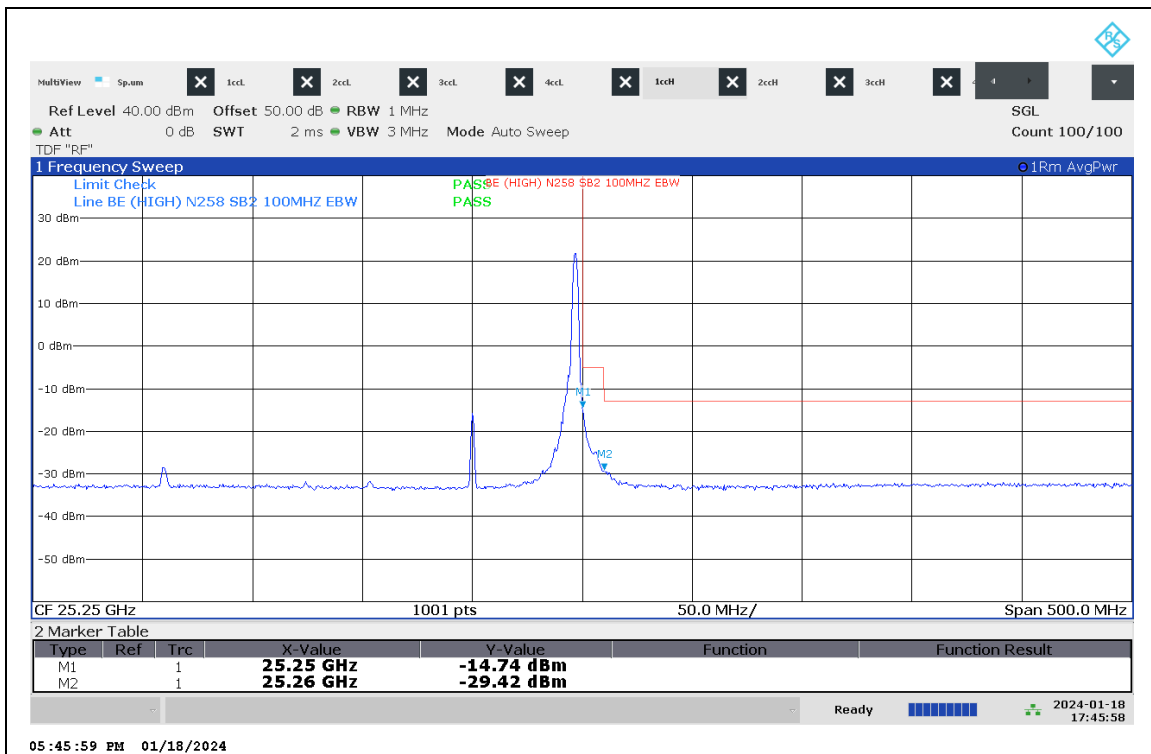
n258 SB2, ANT 0, MIMO, QPSK, 1CC



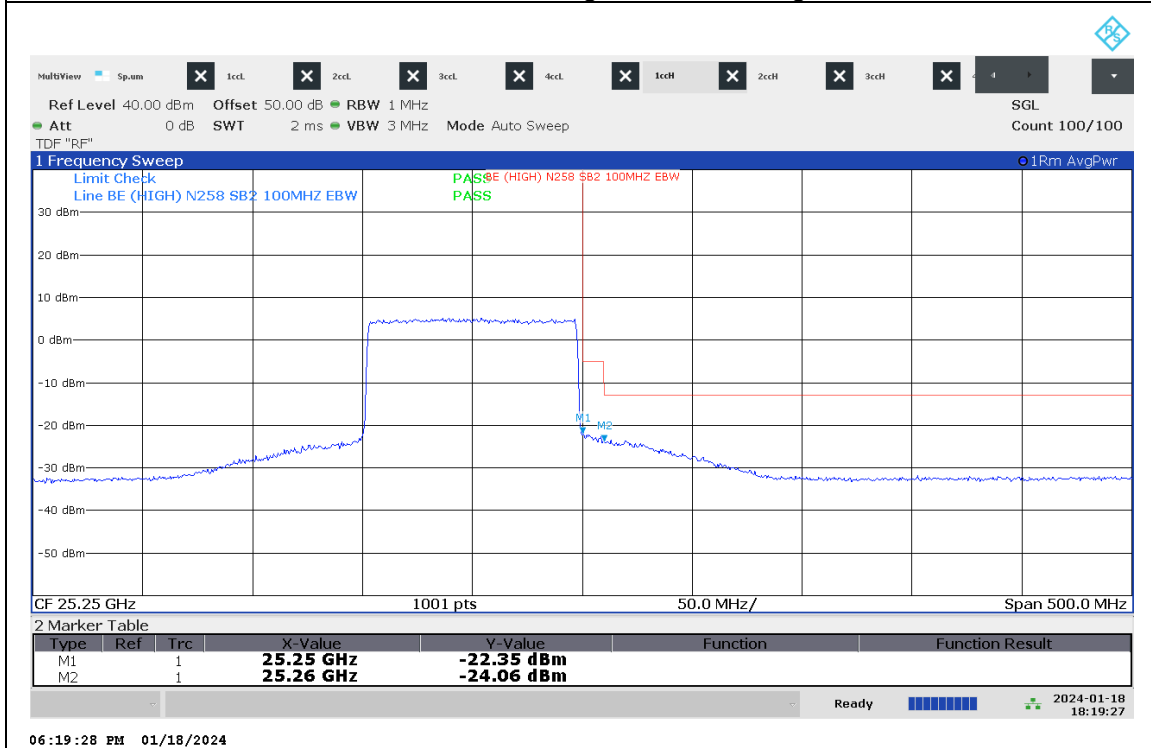
100MHz Bandwidth, Low Channel, Single RB



100MHz Bandwidth, Low Channel, Full RB



100MHz Bandwidth, High Channel, Single RB

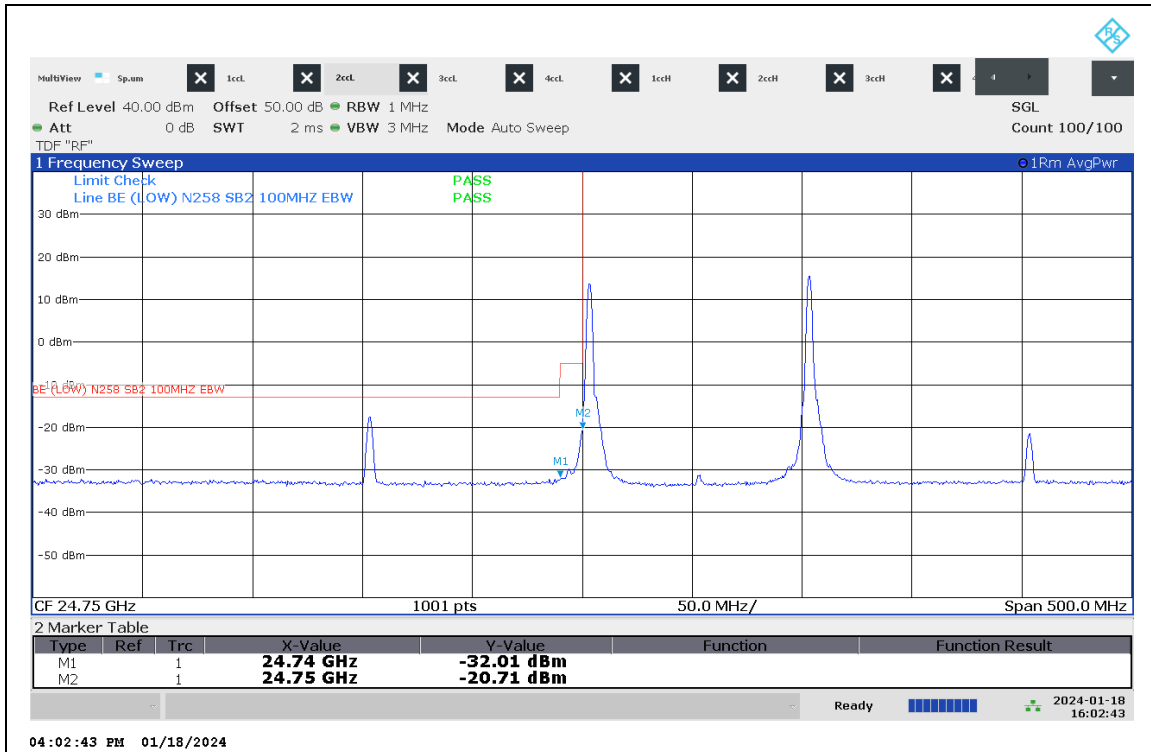


100MHz Bandwidth, High Channel, Full RB

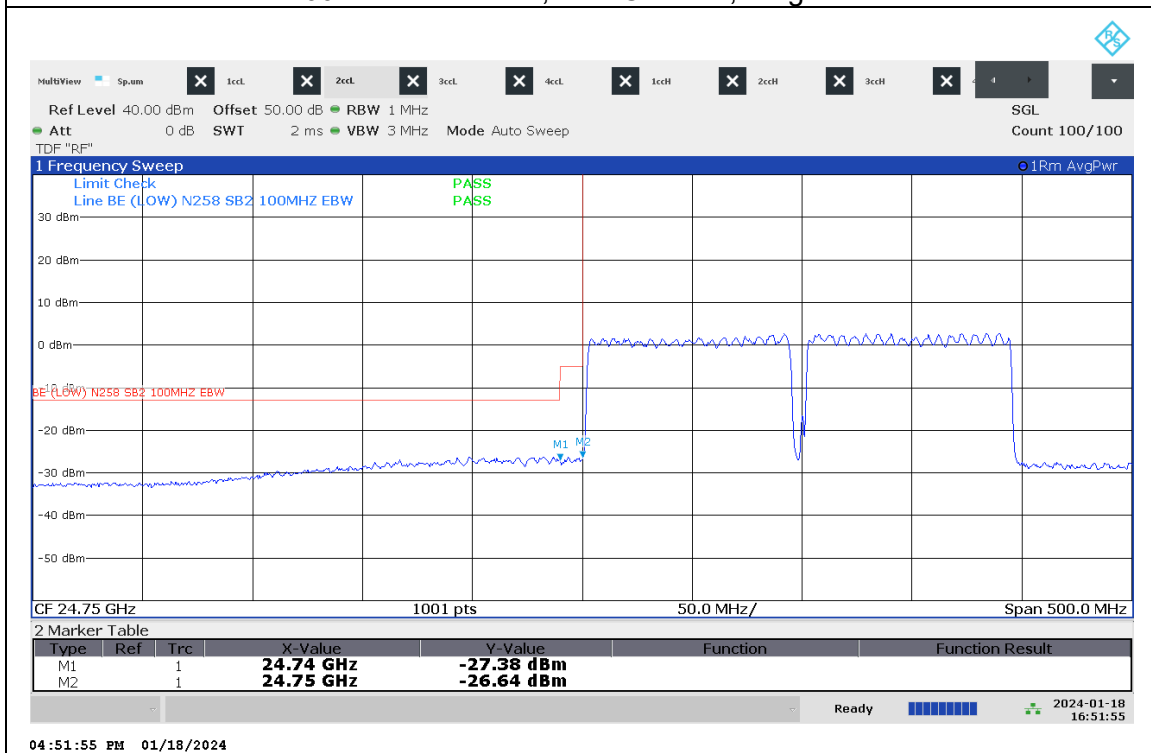
8.3.4. n258 SB2 2CC 100MHz BANDWIDTH RESULTS

Modulation	Antenna	Control System	RB (Size/Offset)	Channel	Frequency (GHz)	Avg EIRP (dBm)	EUT Ant Gain (dBi)	Adj. EIRP (dBm)	Avg TRP Limit (dBm)	Margin (dB)
QPSK	ANT0	SISO 2TX	1/0	Low	24.74	-32.01	8.7	-40.71	-13	-27.71
					24.75	-20.71	8.7	-29.41	-5	-24.41
			64/0	Low	24.74	-27.38	8.7	-36.08	-5	-31.08
					24.75	-26.64	8.7	-35.34	-13	-22.34
			1/63	High	25.25	-28.62	8.7	-37.32	-5	-32.32
					25.26	-32.75	8.7	-41.45	-13	-28.45
			64/0	High	25.25	-28.09	8.7	-36.79	-5	-31.79
					25.26	-27.26	8.7	-35.96	-13	-22.96
		MIMO	1/0	Low	24.74	-32.05	8.7	-40.75	-13	-27.75
					24.75	-19.70	8.7	-28.4	-5	-23.4
			66/0	Low	24.74	-28.87	8.7	-37.57	-13	-24.57
					24.75	-28.41	8.7	-37.11	-5	-32.11
			1/65	High	25.25	-19.59	8.7	-28.29	-5	-23.29
					25.26	-32.44	8.7	-41.14	-13	-28.14
			66/0	High	25.25	-28.16	8.7	-36.86	-5	-31.86
					25.26	-29.79	8.7	-38.49	-13	-25.49
	ANT1	SISO 2TX	1/0	Low	24.74	-32.45	8.5	-40.95	-13	-27.95
					24.75	-21.13	8.5	-29.63	-5	-24.63
			64/0	Low	24.74	-30.93	8.5	-39.43	-13	-26.43
					24.75	-28.36	8.5	-36.86	-5	-31.86
			1/63	High	25.25	-31.19	8.5	-39.69	-5	-34.69
					25.26	-33.46	8.5	-41.96	-13	-28.96
			64/0	High	25.25	-27.04	8.5	-35.54	-5	-30.54
					25.26	-26.06	8.5	-34.56	-13	-21.56
		MIMO	1/0	Low	24.74	-33.05	8.5	-41.55	-13	-28.55
					24.75	-21.78	8.5	-30.28	-5	-25.28
			66/0	Low	24.74	-30.20	8.5	-38.7	-13	-25.7
					24.75	-28.99	8.5	-37.49	-5	-32.49
			1/65	High	25.25	-19.60	8.5	-28.1	-5	-23.1
					25.26	-32.52	8.5	-41.02	-13	-28.02
			66/0	High	25.25	-28.04	8.5	-36.54	-5	-31.54
					25.26	-29.84	8.5	-38.34	-13	-25.34

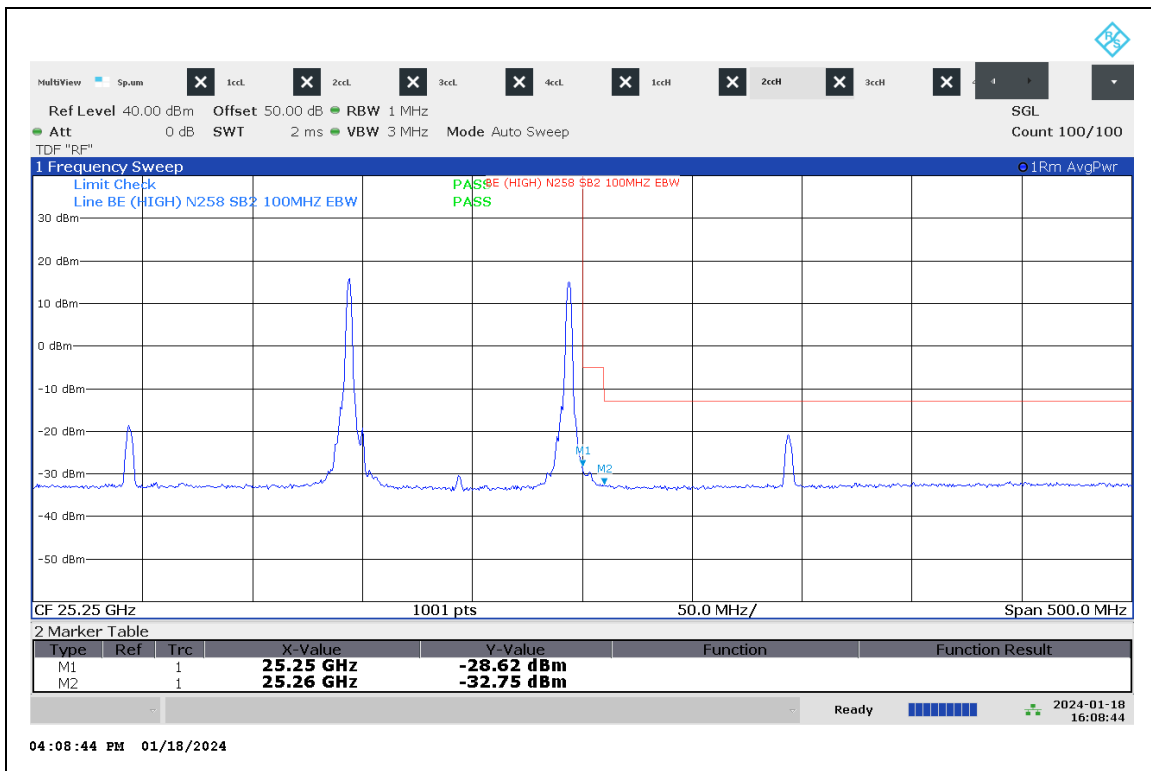
n258 SB2, ANT 0, SISO (2TX), QPSK, 2CC



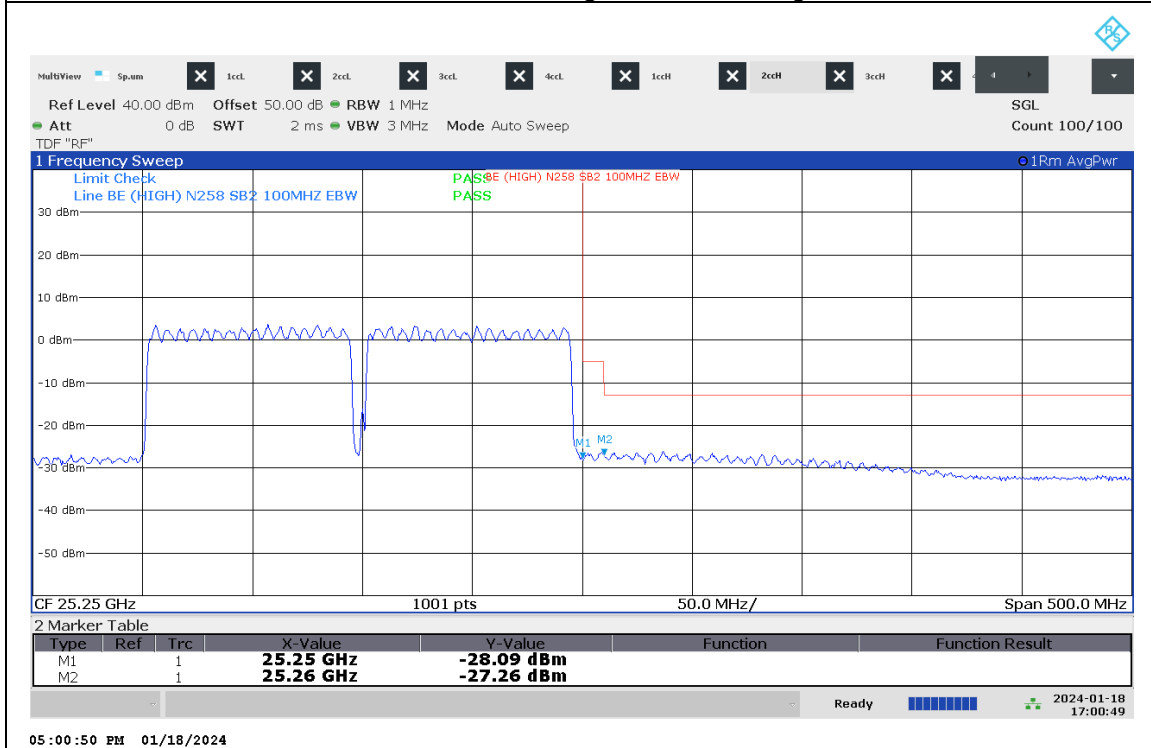
100MHz Bandwidth, Low Channel, Single RB



100MHz Bandwidth, Low Channel, Full RB

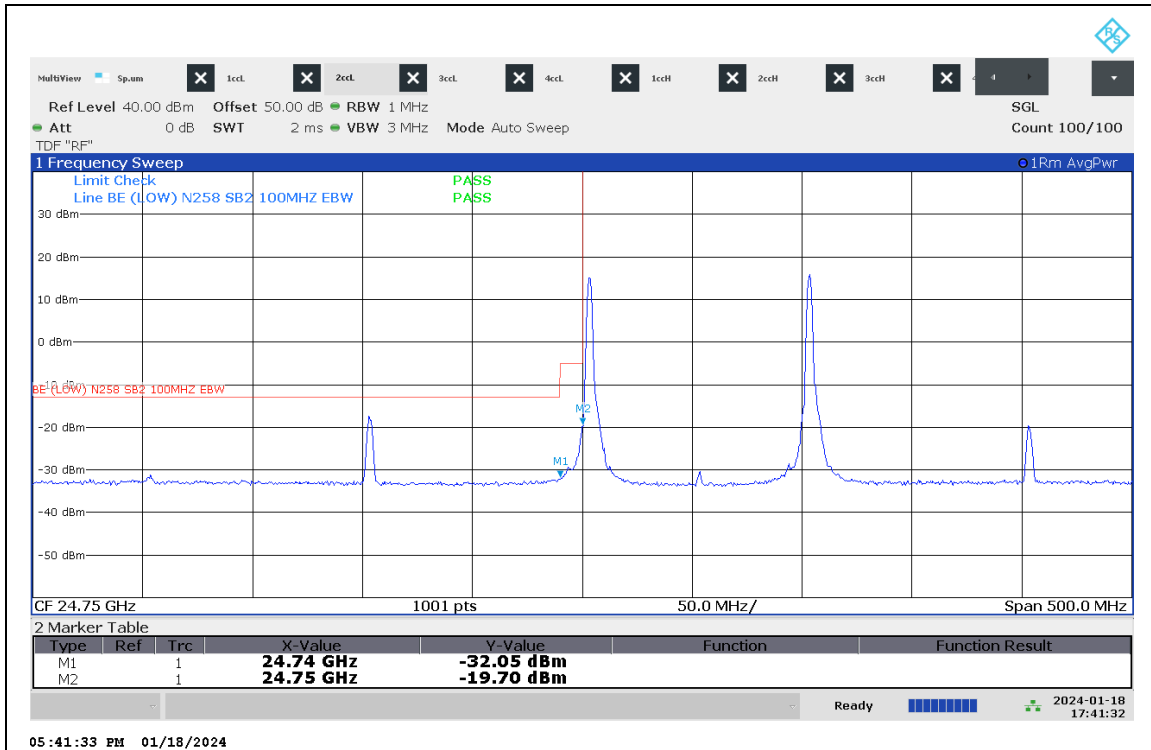


100MHz Bandwidth, High Channel, Single RB



100MHz Bandwidth, High Channel, Full RB

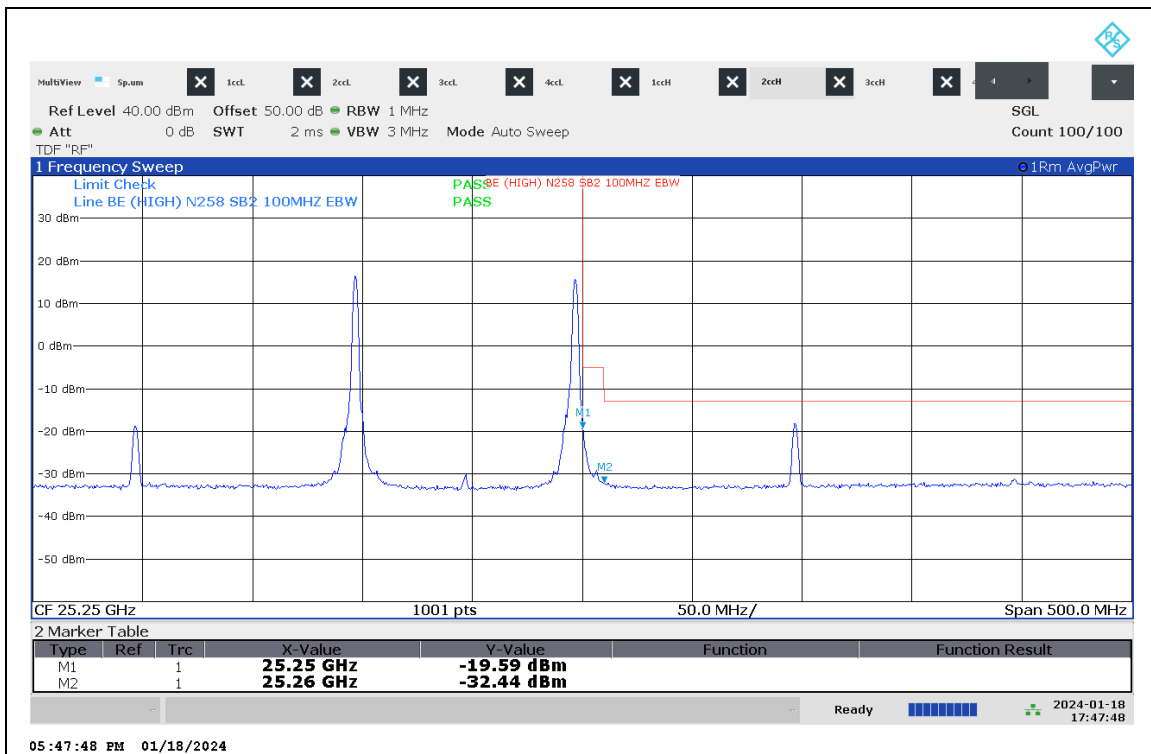
n258 SB2, ANT 0, MIMO, QPSK, 2CC



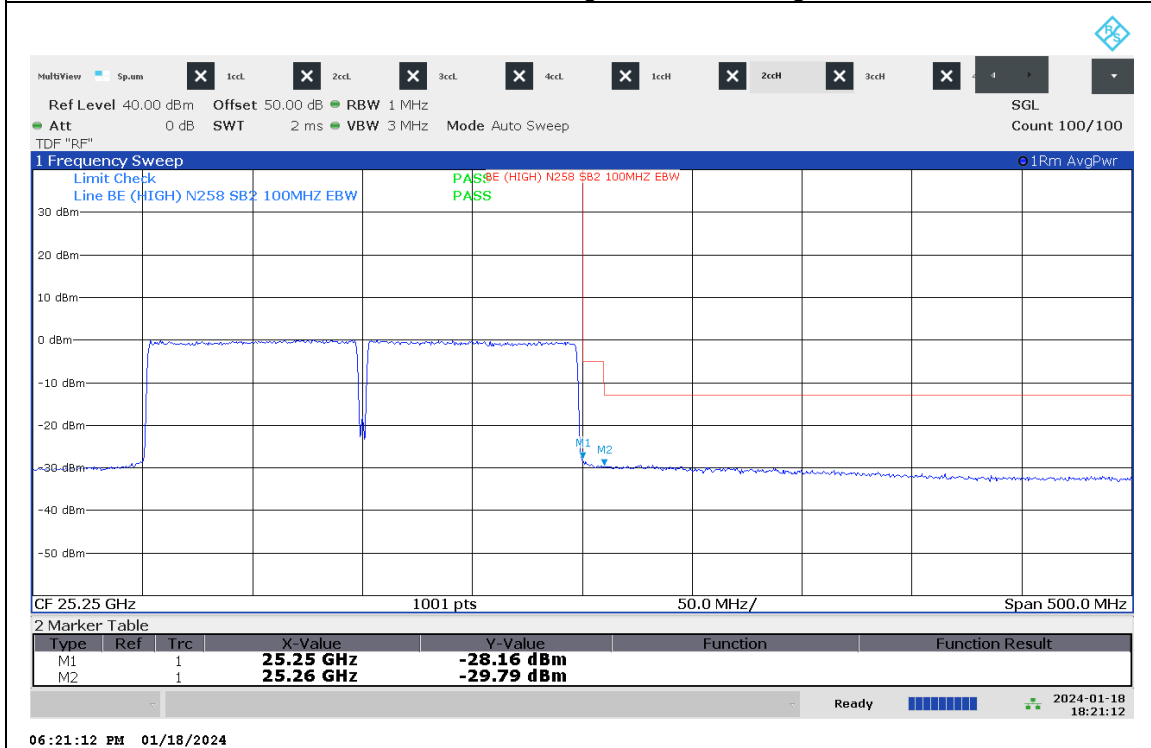
100MHz Bandwidth, Low Channel, Single RB



100MHz Bandwidth, Low Channel, Full RB



100MHz Bandwidth, High Channel, Single RB

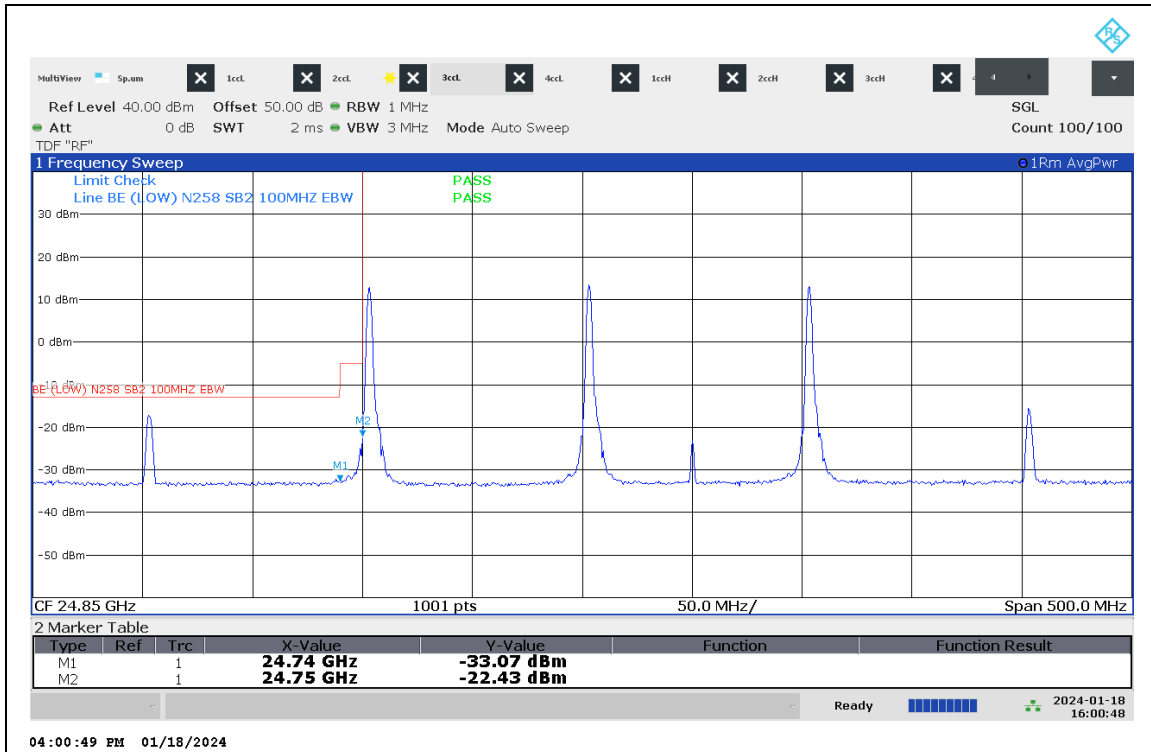


100MHz Bandwidth, High Channel, Full RB

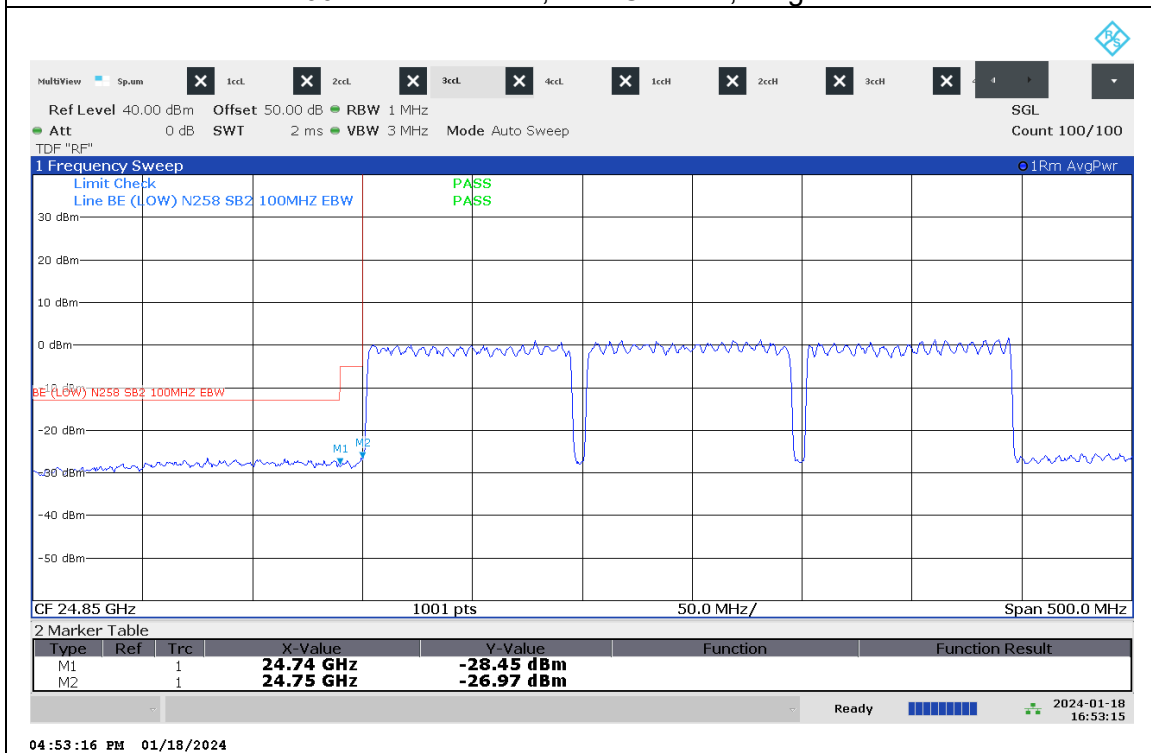
8.3.5. n258 SB2 3CC 100MHz BANDWIDTH RESULTS

Modulation	Antenna	Control System	RB (Size/Offset)	Channel	Frequency (GHz)	Avg EIRP (dBm)	EUT Ant Gain (dBi)	Adj. EIRP (dBm)	Avg TRP Limit (dBm)	Margin (dB)
QPSK	ANT0	SISO 2TX	1/0	Low	24.74	-33.07	8.7	-41.77	-13	-28.77
					24.75	-22.43	8.7	-31.13	-5	-26.13
			64/0	Low	24.74	-28.45	8.7	-37.15	-13	-24.15
					24.75	-26.97	8.7	-35.67	-5	-30.67
			1/63	High	25.25	-28.45	8.7	-37.15	-5	-32.15
					25.26	-33.00	8.7	-41.7	-13	-28.7
		MIMO	64/0	High	25.25	-27.13	8.7	-35.83	-5	-30.83
					25.26	-27.13	8.7	-35.83	-13	-22.83
			1/0	Low	24.74	-32.92	8.7	-41.62	-13	-28.62
					24.75	-24.25	8.7	-32.95	-5	-27.95
			66/0	Low	24.74	-30.29	8.7	-38.99	-13	-25.99
					24.75	-29.46	8.7	-38.16	-5	-33.16
			1/65	High	25.25	18.80	8.7	10.1	-5	15.1
					25.26	-32.91	8.7	-41.61	-13	-28.61
			66/0	High	25.25	-29.22	8.7	-37.92	-5	-32.92
					25.26	-29.82	8.7	-38.52	-13	-25.52
	ANT1	SISO 2TX	1/0	Low	24.74	-32.46	8.5	-40.96	-13	-27.96
					24.75	-21.81	8.5	-30.31	-5	-25.31
			64/0	Low	24.74	-28.13	8.5	-36.63	-13	-23.63
					24.75	-28.51	8.5	-37.01	-5	-32.01
			1/63	High	25.25	-27.98	8.5	-36.48	-5	-31.48
					25.26	-32.42	8.5	-40.92	-13	-27.92
		MIMO	64/0	High	25.25	-26.10	8.5	-34.6	-5	-29.6
					25.26	-24.84	8.5	-33.34	-13	-20.34
			1/0	Low	24.74	-33.14	8.5	-41.64	-13	-28.64
					24.75	-21.74	8.5	-30.24	-5	-25.24
			66/0	Low	24.74	-31.74	8.5	-40.24	-13	-27.24
					24.75	-30.65	8.5	-39.15	-5	-34.15
			1/65	High	25.25	-20.20	8.5	-28.7	-5	-23.7
					25.26	-32.59	8.5	-41.09	-13	-28.09
			66/0	High	25.25	-28.31	8.5	-36.81	-5	-31.81
					25.26	-30.05	8.5	-38.55	-13	-25.55

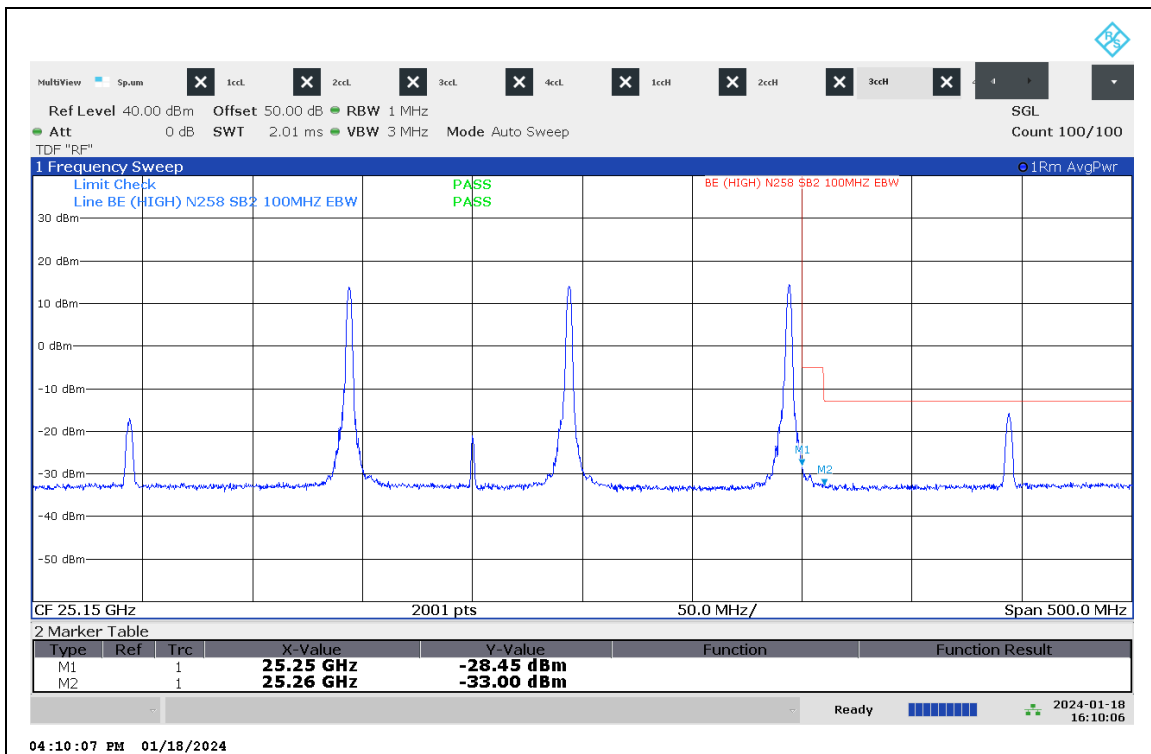
n258 SB2, ANT 0, SISO (2TX), QPSK, 3CC



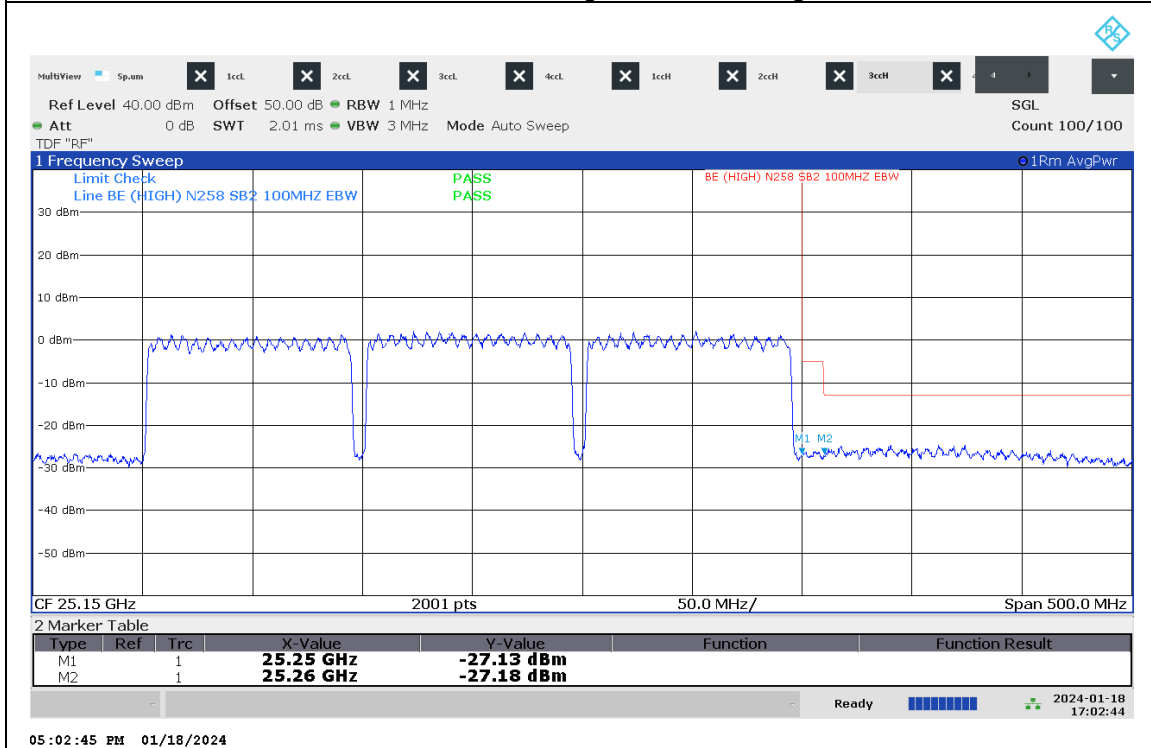
100MHz Bandwidth, Low Channel, Single RB



100MHz Bandwidth, Low Channel, Full RB

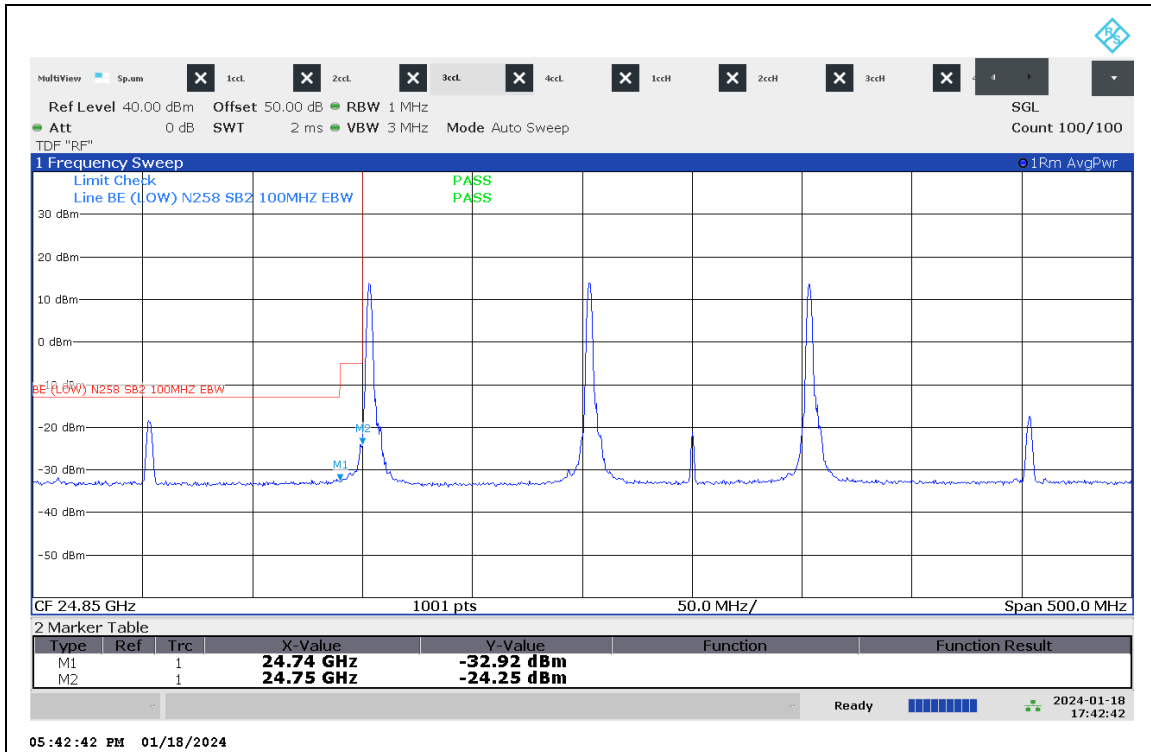


100MHz Bandwidth, High Channel, Single RB



100MHz Bandwidth, High Channel, Full RB

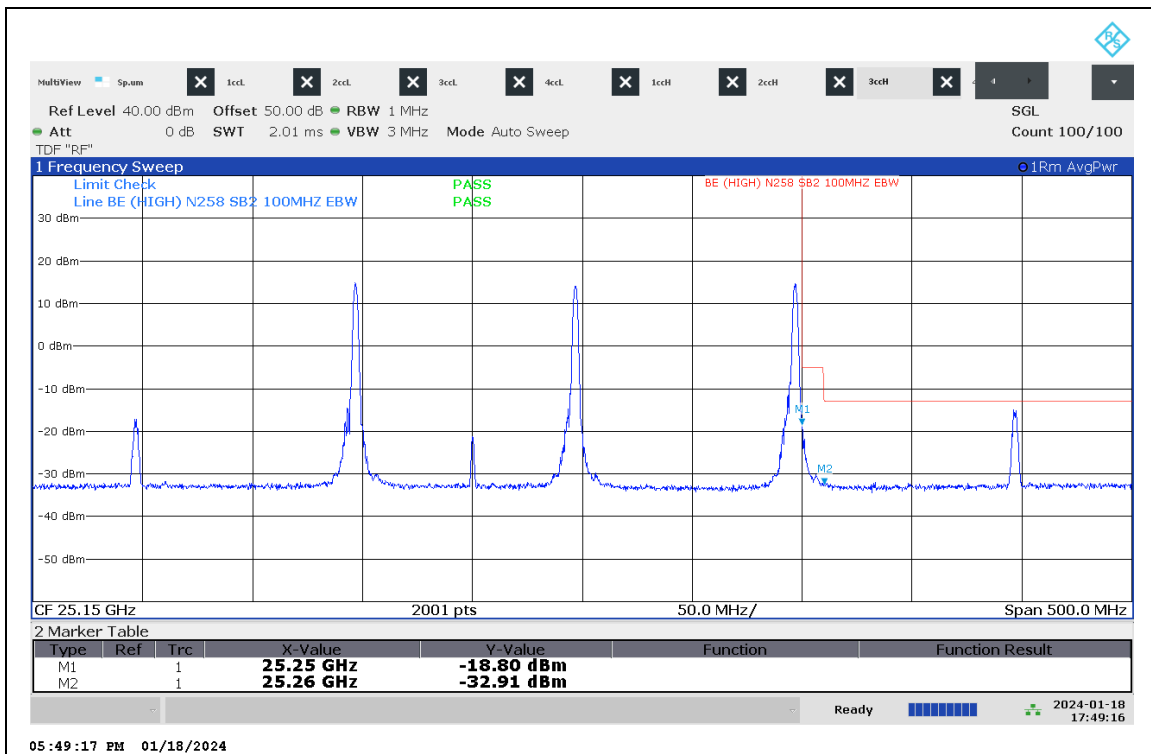
n258 SB2, ANT 0, MIMO, QPSK, 3CC



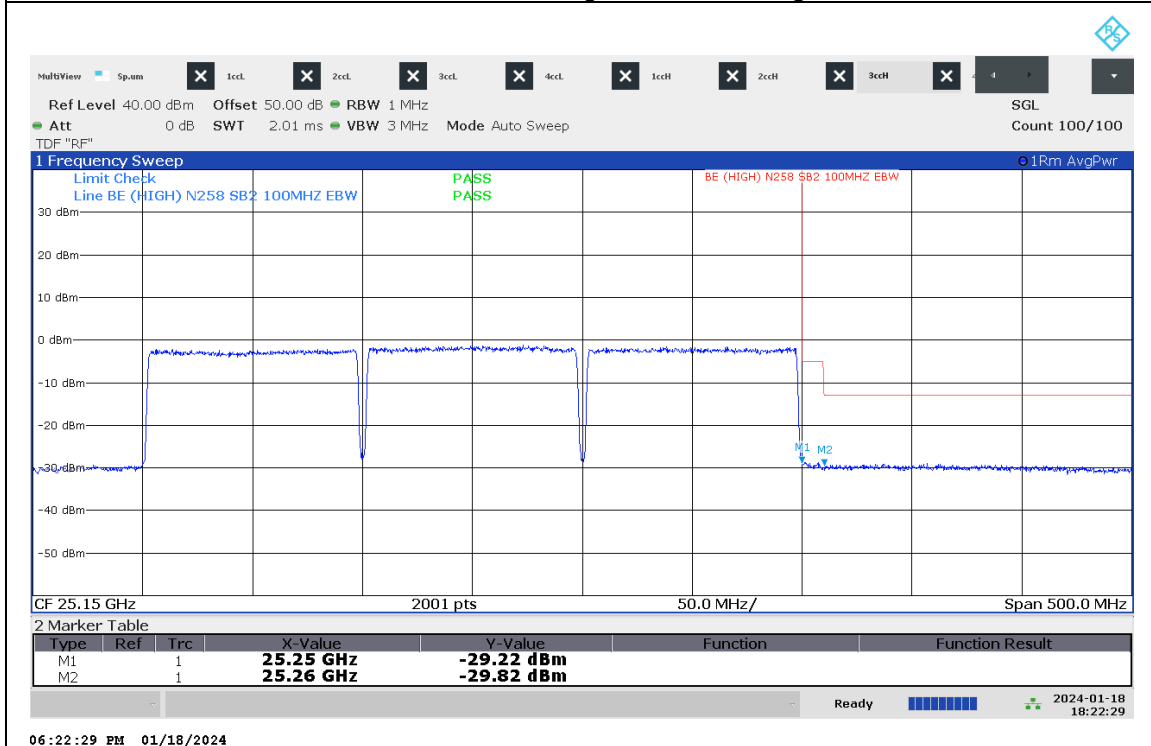
100MHz Bandwidth, Low Channel, Single RB



100MHz Bandwidth, Low Channel, Full RB



100MHz Bandwidth, High Channel, Single RB



100MHz Bandwidth, High Channel, Full RB

8.3.6. n258 SB2 4CC 100MHz BANDWIDTH RESULTS

Modulation	Antenna	Control System	RB (Size/Offset)	Channel	Frequency (GHz)	Avg EIRP (dBm)	EUT Ant Gain (dBi)	Adj. EIRP (dBm)	Avg TRP Limit (dBm)	Margin (dB)
QPSK	ANT0	SISO 2TX	1/0	Low	24.74	-32.44	8.7	-41.14	-13	-28.14
					24.75	-16.42	8.7	-25.12	-5	-20.12
			64/0	Low	24.74	-27.51	8.7	-36.21	-13	-23.21
					24.75	-27.43	8.7	-36.13	-5	-31.13
			1/63	High	25.25	-29.35	8.7	-38.05	-5	-33.05
					25.26	-33.17	8.7	-41.87	-13	-28.87
		MIMO	64/0	High	25.25	-27.33	8.7	-36.03	-5	-31.03
					25.26	-26.58	8.7	-35.28	-13	-22.28
			1/0	Low	24.74	-32.36	8.7	-41.06	-13	-28.06
					24.75	-20.38	8.7	-29.08	-5	-24.08
			66/0	Low	24.74	-31.44	8.7	-40.14	-13	-27.14
					24.75	-30.55	8.7	-39.25	-5	-34.25
			1/65	High	25.25	-20.18	8.7	-28.88	-5	-23.88
					25.26	-32.43	8.7	-41.13	-13	-28.13
			66/0	High	25.25	-29.52	8.7	-38.22	-5	-33.22
					25.26	-30.17	8.7	-38.87	-13	-25.87
	ANT1	SISO 2TX	1/0	Low	24.74	-32.64	8.5	-41.14	-13	-28.14
					24.75	-21.43	8.5	-29.93	-5	-24.93
			64/0	Low	24.74	-29.83	8.5	-38.33	-13	-25.33
					24.75	-28.39	8.5	-36.89	-5	-31.89
			1/63	High	25.25	-29.53	8.5	-38.03	-5	-33.03
					25.26	-33.32	8.5	-41.82	-13	-28.82
		MIMO	64/0	High	25.25	-25.76	8.5	-34.26	-5	-29.26
					25.26	-24.25	8.5	-32.75	-13	-19.75
			1/0	Low	24.74	-32.86	8.5	-41.36	-13	-28.36
					24.75	-20.24	8.5	-28.74	-5	-23.74
			66/0	Low	24.74	-32.43	8.5	-40.93	-13	-27.93
					24.75	-31.98	8.5	-40.48	-5	-35.48
			1/65	High	25.25	-19.76	8.5	-28.26	-5	-23.26
					25.26	-32.65	8.5	-41.15	-13	-28.15
			66/0	High	25.25	-28.99	8.5	-37.49	-5	-32.49
					25.26	-30.13	8.5	-38.63	-13	-25.63

MultiView Sp. Am 1cc1 2cc1 3cc1 4cc1 1ccH 2ccH 3ccH

Ref Level 40.00 dBm Offset 50.00 dB RBW 1 MHz SGL
Att 0 dB SWT 2 ms VBW 3 MHz Mode Auto Sweep Count 100/100

TDF "RF"

1 Frequency Sweep 0.1Rm AvgPwr

Limit Check
Line BE (LOW) N258 SB2 100MHz EBW

30 dBm
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm

BE (LOW) N258 SB2 100MHz EBW

M1

CF 24.95 GHz 1001 pts 50.0 MHz/ Span 500.0 MHz

2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	24.74 GHz	-32.44 dBm		
M2		1	24.75 GHz	-16.42 dBm		

Ready 2024-01-18 15:59:24

03:59:25 PM 01/18/2024

100MHz Bandwidth, Low Channel, Single RB

Ref Level 40.00 dBm Offset 50.00 dB RBW 1 MHz SGL Count 100/100

Att 0 dB SWT 2 ms VBW 3 MHz Mode Auto Sweep

TDF "RF"

1 Frequency Sweep 1Rm AvgPwr

Limit Check

Line BE (LOW) N258 SB2 100MHZ EBW

PASS

PASS

BE (LOW) N258 SB2 100MHZ EBW

M1 M2

CF 24.95 GHz 1001 pts 50.0 MHz/ Span 500.0 MHz

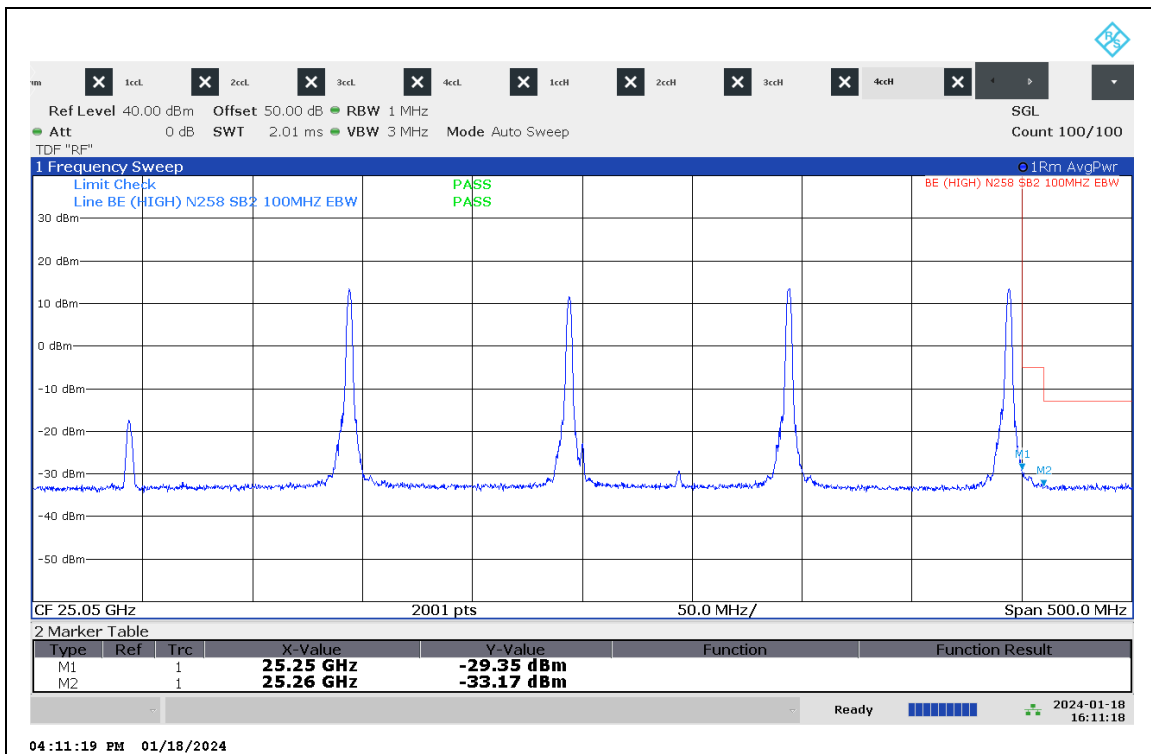
2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		24.74 GHz	-27.51 dBm		
M2	1		24.75 GHz	-27.43 dBm		

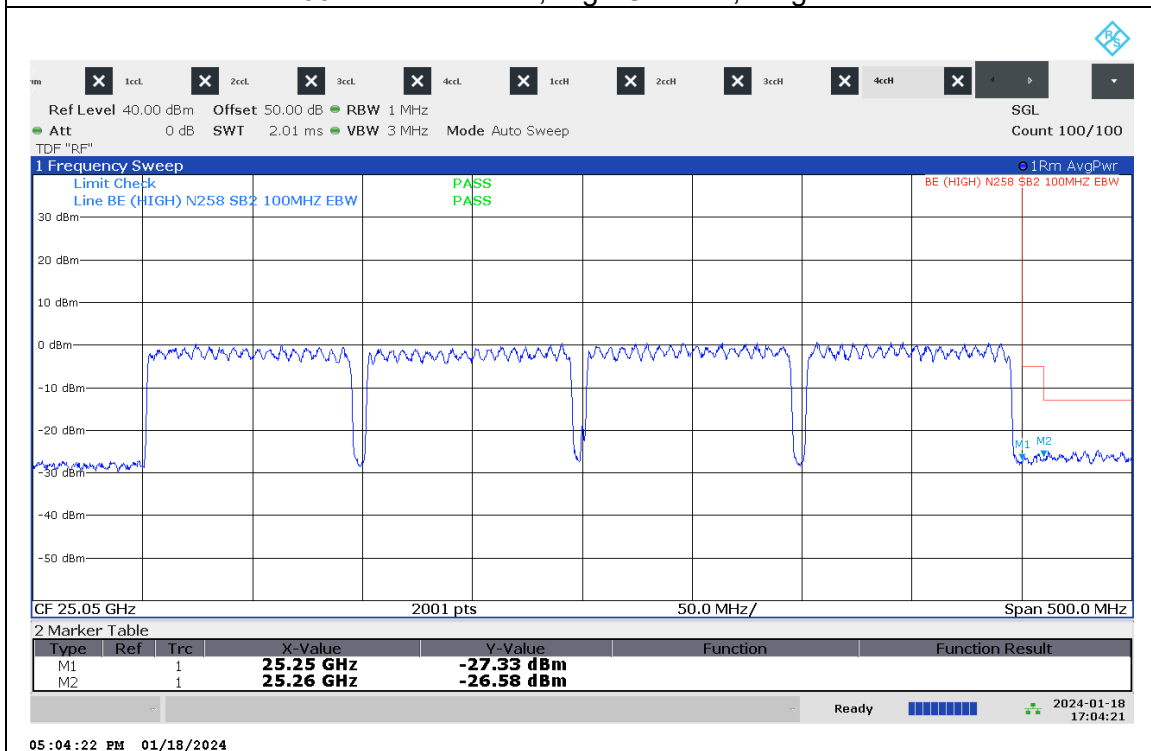
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Ready 2024-01-18 16:54:41

100MHz Bandwidth. Low Channel. Full RB

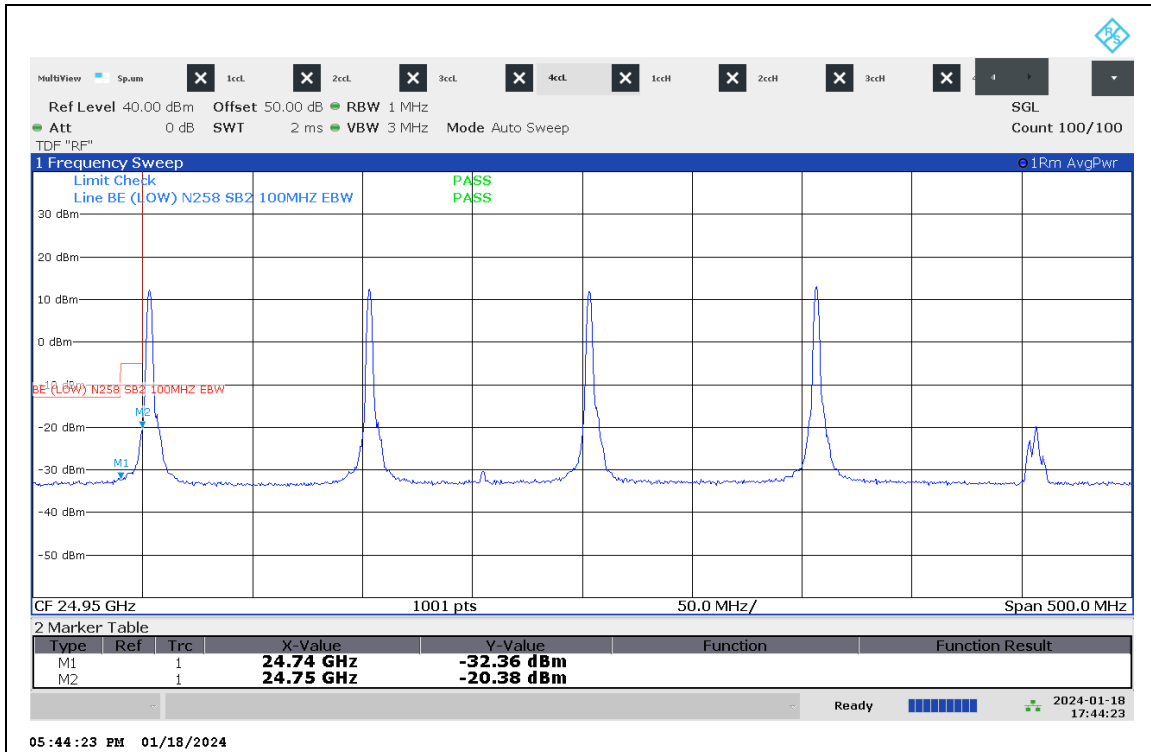


100MHz Bandwidth, High Channel, Single RB

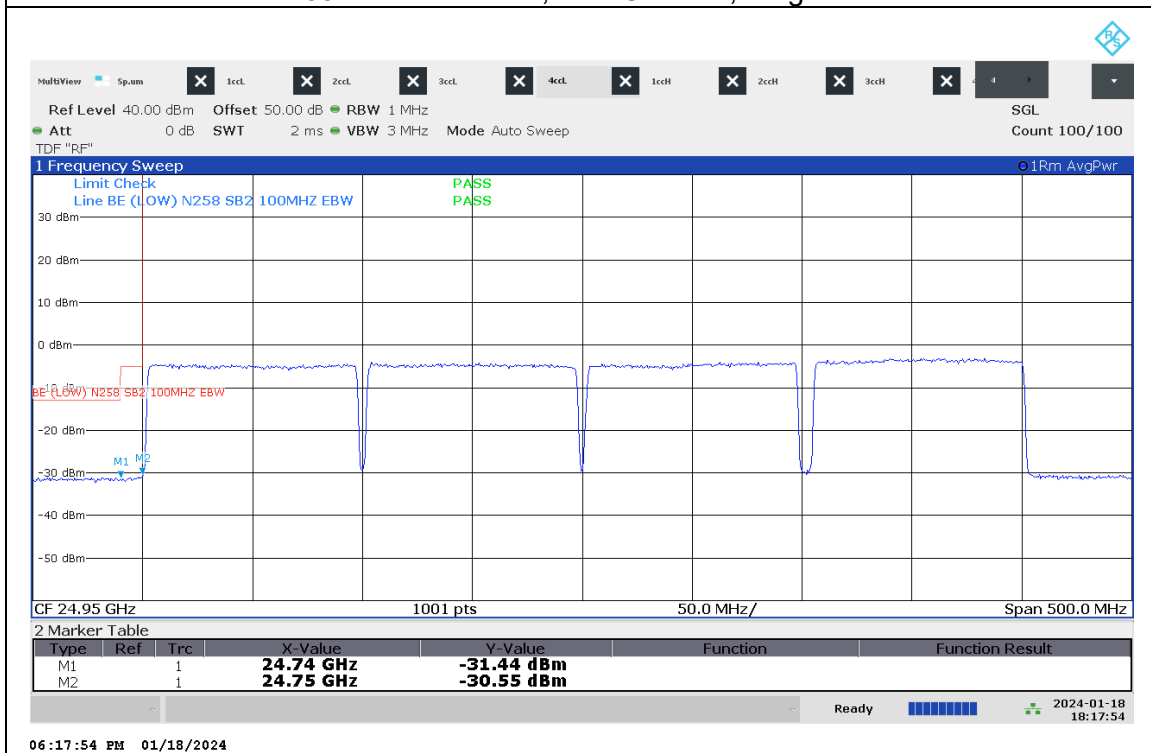


100MHz Bandwidth, High Channel, Full RB

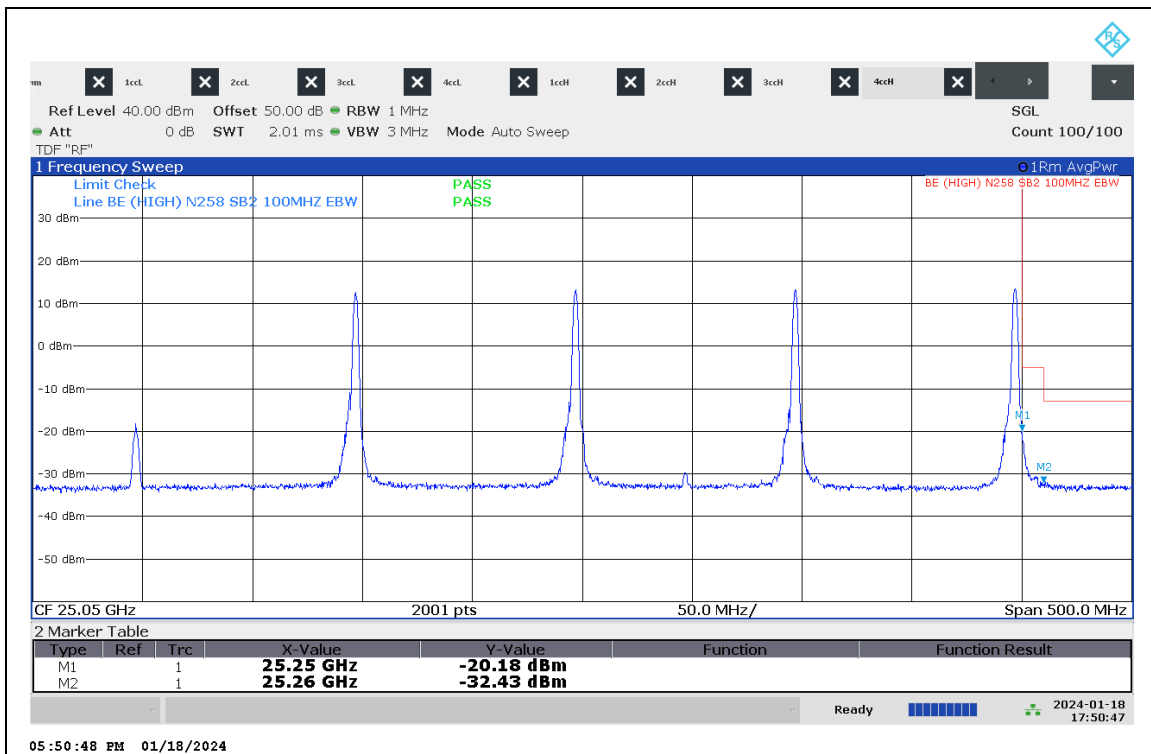
n258 SB2, ANT 0, MIMO, QPSK, 4CC



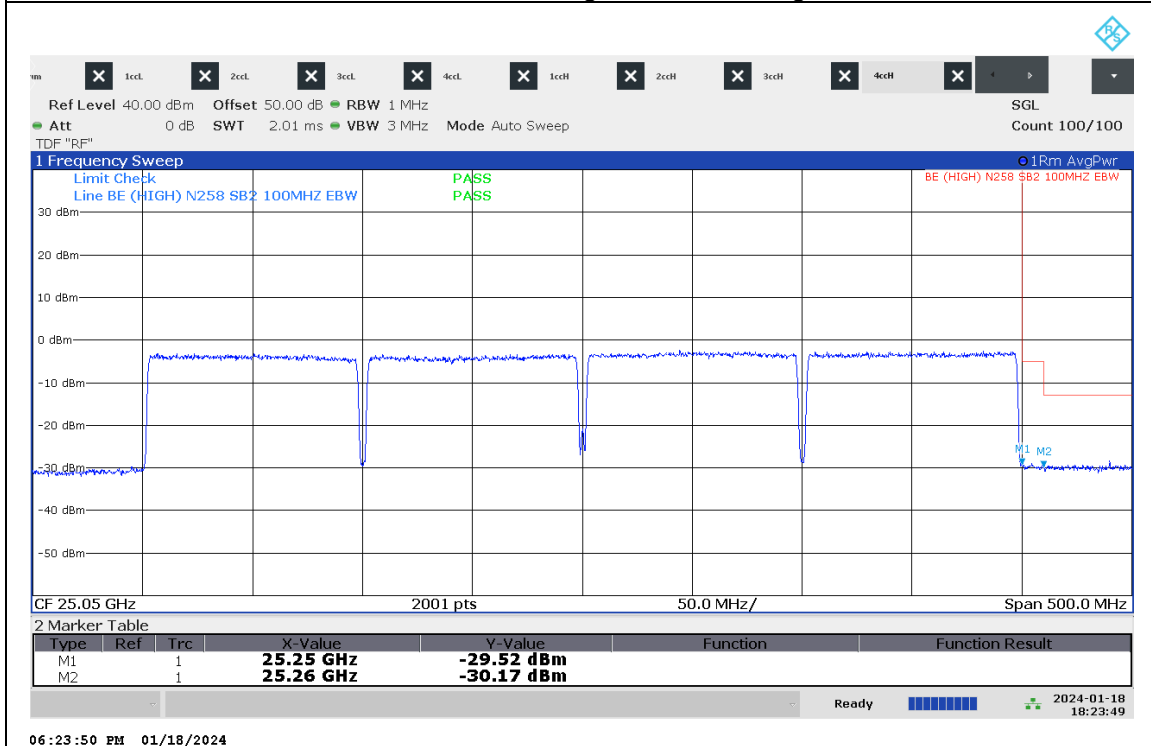
100MHz Bandwidth, Low Channel, Single RB



100MHz Bandwidth, Low Channel, Full RB



100MHz Bandwidth, High Channel, Single RB



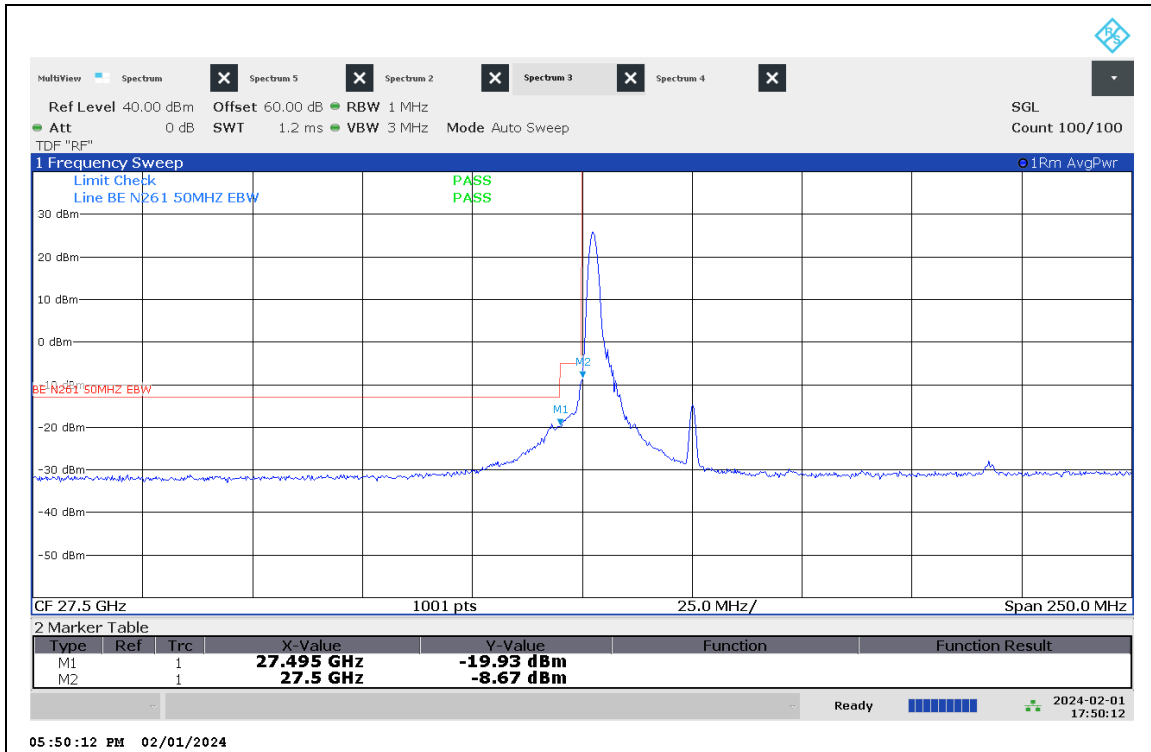
100MHz Bandwidth, High Channel, Full RB

8.3.7. n261 1CC 50MHz BANDWIDTH RESULTS

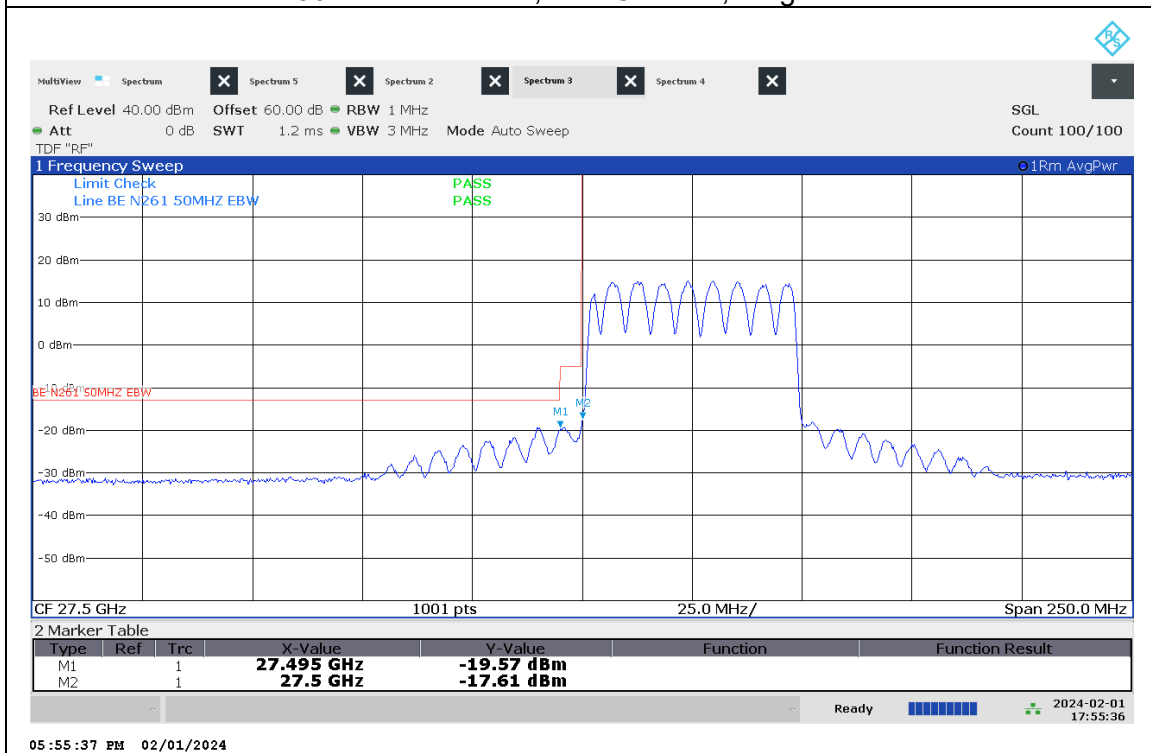
Modulation	Antenna	Control System	RB (Size/Offset)	Channel	Frequency (GHz)	Avg EIRP (dBm)	EUT Ant Gain (dBi)	Adj. EIRP (dBm)	Avg TRP Limit (dBm)	Margin (dB)
QPSK	ANT0	SISO 2TX	1/0	Low	27.495	-19.93	11.2	-31.13	-13	-18.13
					27.5	-8.67	11.2	-19.87	-5	-14.87
			32/0	Low	27.495	-19.57	11.2	-30.77	-13	-17.77
					27.5	-17.61	11.2	-28.81	-5	-23.81
			1/31	High	28.35	-8.63	11.2	-19.83	-5	-14.83
					28.355	-14.38	11.2	-25.58	-13	-12.58
		MIMO	32/0	High	28.35	-18.31	11.2	-29.51	-5	-24.51
					28.355	-22.81	11.2	-34.01	-13	-21.01
			1/0	Low	27.495	-20.17	11.2	-31.37	-13	-18.37
					27.5	-8.75	11.2	-19.95	-5	-14.95
			32/0	Low	27.495	-20.41	11.2	-31.61	-13	-18.61
					27.5	-19.05	11.2	-30.25	-5	-25.25
			1/31	High	28.35	-11.40	11.2	-22.6	-5	-17.6
					28.355	-19.24	11.2	-30.44	-13	-17.44
			32/0	High	28.35	-18.35	11.2	-29.55	-5	-24.55
					28.355	-20.10	11.2	-31.3	-13	-18.3
	ANT1	SISO 2TX	1/0	Low	27.495	-20.66	10.4	-31.06	-13	-18.06
					27.5	-7.11	10.4	-17.51	-5	-12.51
			32/0	Low	27.495	-22.14	10.4	-32.54	-13	-19.54
					27.5	-18.73	10.4	-29.13	-5	-24.13
			1/31	High	28.35	-10.22	10.4	-20.62	-5	-15.62
					28.355	-18.90	10.4	-29.3	-13	-16.3
		MIMO	32/0	High	28.35	-19.42	10.4	-29.82	-5	-24.82
					28.355	-21.79	10.4	-32.19	-13	-19.19
			1/0	Low	27.495	-24.33	10.4	-34.73	-13	-21.73
					27.5	-11.88	10.4	-22.28	-5	-17.28
			32/0	Low	27.495	-22.79	10.4	-33.19	-13	-20.19
					27.5	-21.44	10.4	-31.84	-5	-26.84
			1/31	High	28.35	-11.28	10.4	-21.68	-5	-16.68
					28.355	-22.48	10.4	-32.88	-13	-19.88
			32/0	High	28.35	-18.45	10.4	-28.85	-5	-23.85
					28.355	-20.75	10.4	-31.15	-13	-18.15

Modulation	Antenna	Control System	RB (Size/Offset)	Channel	Frequency (GHz)	Avg EIRP (dBm)	EUT Ant Gain (dBi)	Adj. EIRP (dBm)	Avg TRP Limit (dBm)	Margin (dB)
PI/2 BPSK	ANT0	SISO 2TX	1/0	Low	27.495	-20.30	11.2	-31.5	-13	-18.5
					27.5	-6.73	11.2	-17.93	-5	-12.93
			32/0	Low	27.495	-21.96	11.2	-33.16	-13	-20.16
					27.5	-17.84	11.2	-29.04	-5	-24.04
			1/31	High	28.35	-6.88	11.2	-18.08	-5	-13.08
					28.355	-15.18	11.2	-26.38	-13	-13.38
			32/0	High	28.35	-18.37	11.2	-29.57	-5	-24.57
					28.355	-23.27	11.2	-34.47	-13	-21.47
	ANT1		1/0	Low	27.495	-21.45	10.4	-31.85	-13	-18.85
					27.5	-9.20	10.4	-19.6	-5	-14.6
			32/0	Low	27.495	-23.82	10.4	-34.22	-13	-21.22
					27.5	-21.15	10.4	-31.55	-5	-26.55
			1/31	High	28.35	-13.35	10.4	-23.75	-5	-18.75
					28.355	-21.43	10.4	-31.83	-13	-18.83
			32/0	High	28.35	-20.44	10.4	-30.84	-5	-25.84
					28.355	-23.31	10.4	-33.71	-13	-20.71
16QAM	ANT0		1/0	Low	27.495	-20.41	11.2	-31.61	-13	-18.61
					27.5	-8.30	11.2	-19.5	-5	-14.5
			32/0	Low	27.495	-22.04	11.2	-33.24	-13	-20.24
					27.5	-19.28	11.2	-30.48	-5	-25.48
			1/31	High	28.35	-9.55	11.2	-20.75	-5	-15.75
					28.355	-16.10	11.2	-27.3	-13	-14.3
			32/0	High	28.35	-20.00	11.2	-31.2	-5	-26.2
					28.355	-24.12	11.2	-35.32	-13	-22.32
	ANT1		1/0	Low	27.495	-22.22	10.4	-32.62	-13	-19.62
					27.5	-8.44	10.4	-18.84	-5	-13.84
			32/0	Low	27.495	-24.00	10.4	-34.4	-13	-21.4
					27.5	-21.06	10.4	-31.46	-5	-26.46
			1/31	High	28.35	-13.73	10.4	-24.13	-5	-19.13
					28.355	-23.11	10.4	-33.51	-13	-20.51
			32/0	High	28.35	-20.99	10.4	-31.39	-5	-26.39
					28.355	-23.96	10.4	-34.36	-13	-21.36
64QAM	ANT0		1/0	Low	27.495	-22.53	11.2	-33.73	-13	-20.73
					27.5	-7.87	11.2	-19.07	-5	-14.07
			32/0	Low	27.495	-24.39	11.2	-35.59	-13	-22.59
					27.5	-21.68	11.2	-32.88	-5	-27.88
			1/31	High	28.35	-10.15	11.2	-21.35	-5	-16.35
					28.355	-17.29	11.2	-28.49	-13	-15.49
			32/0	High	28.35	-21.00	11.2	-32.2	-5	-27.2
					28.355	-26.23	11.2	-37.43	-13	-24.43
	ANT1		1/0	Low	27.495	-22.57	10.4	-32.97	-13	-19.97
					27.5	-9.57	10.4	-19.97	-5	-14.97
			32/0	Low	27.495	-25.28	10.4	-35.68	-13	-22.68
					27.5	-21.58	10.4	-31.98	-5	-26.98
			1/31	High	28.35	-15.13	10.4	-25.53	-5	-20.53
					28.355	-23.87	10.4	-34.27	-13	-21.27
			32/0	High	28.35	-22.35	10.4	-32.75	-5	-27.75
					28.355	-24.86	10.4	-35.26	-13	-22.26

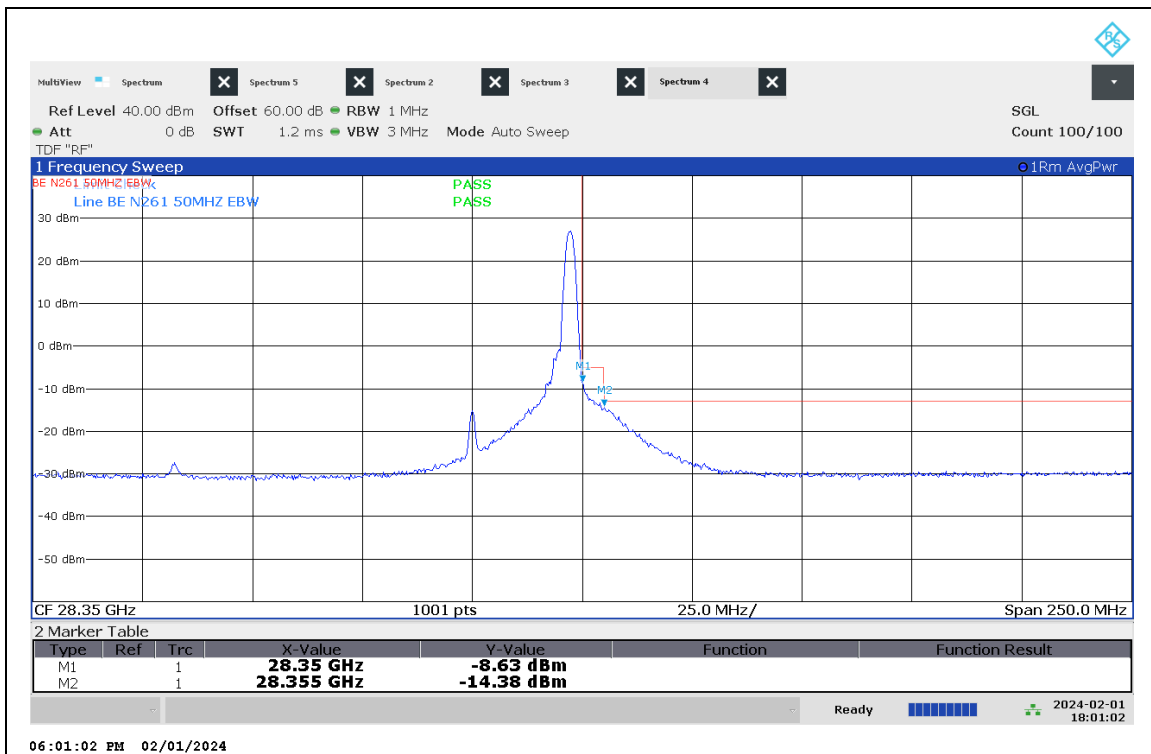
n261, ANT 0, SISO (2TX), QPSK, 1CC



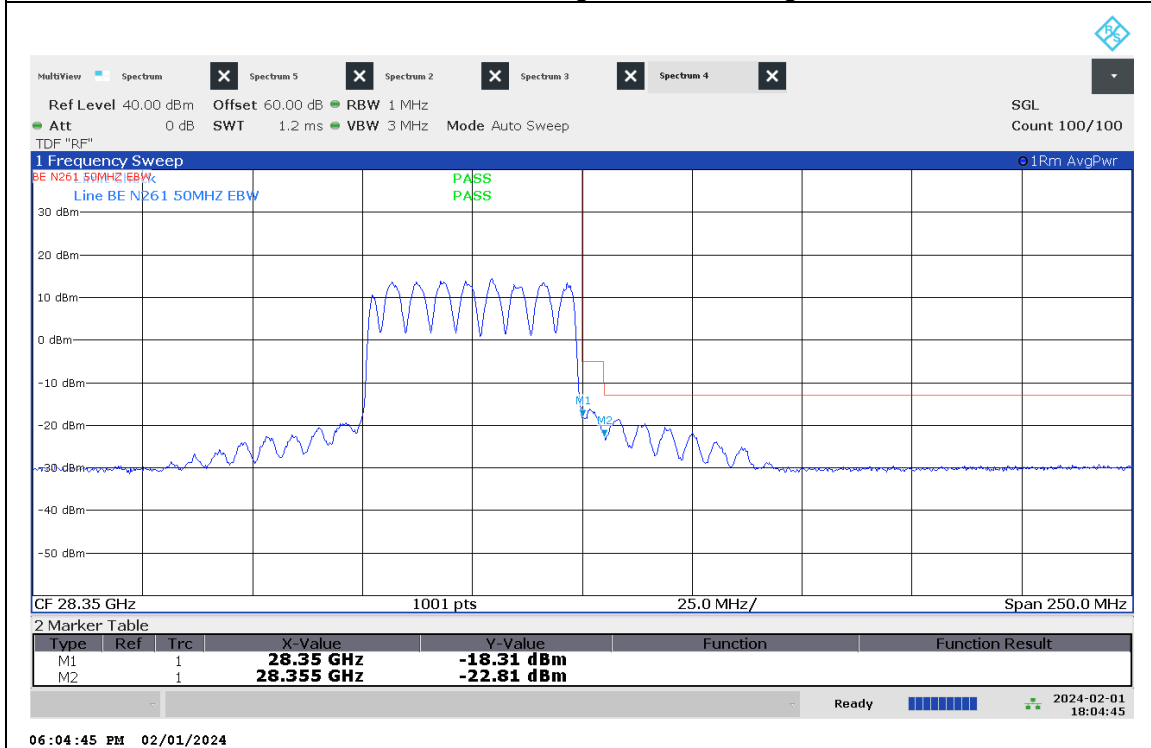
50MHz Bandwidth, Low Channel, Single RB



50MHz Bandwidth, Low Channel, Full RB

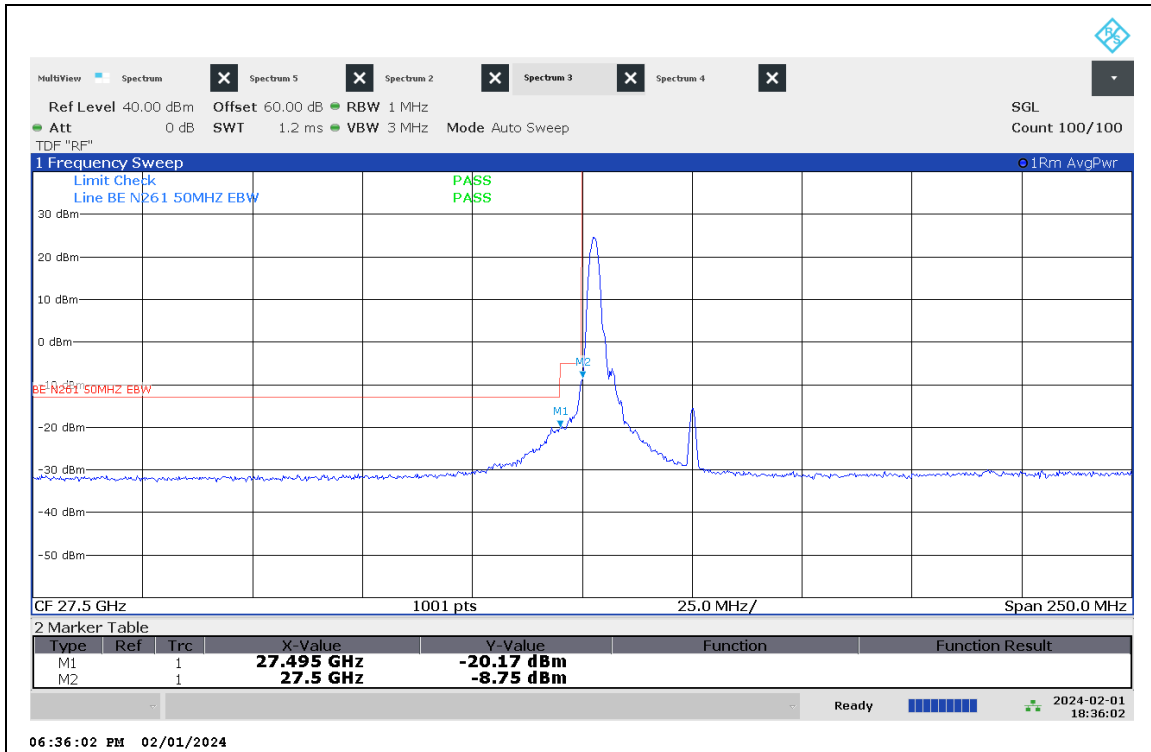


50MHz Bandwidth, High Channel, Single RB

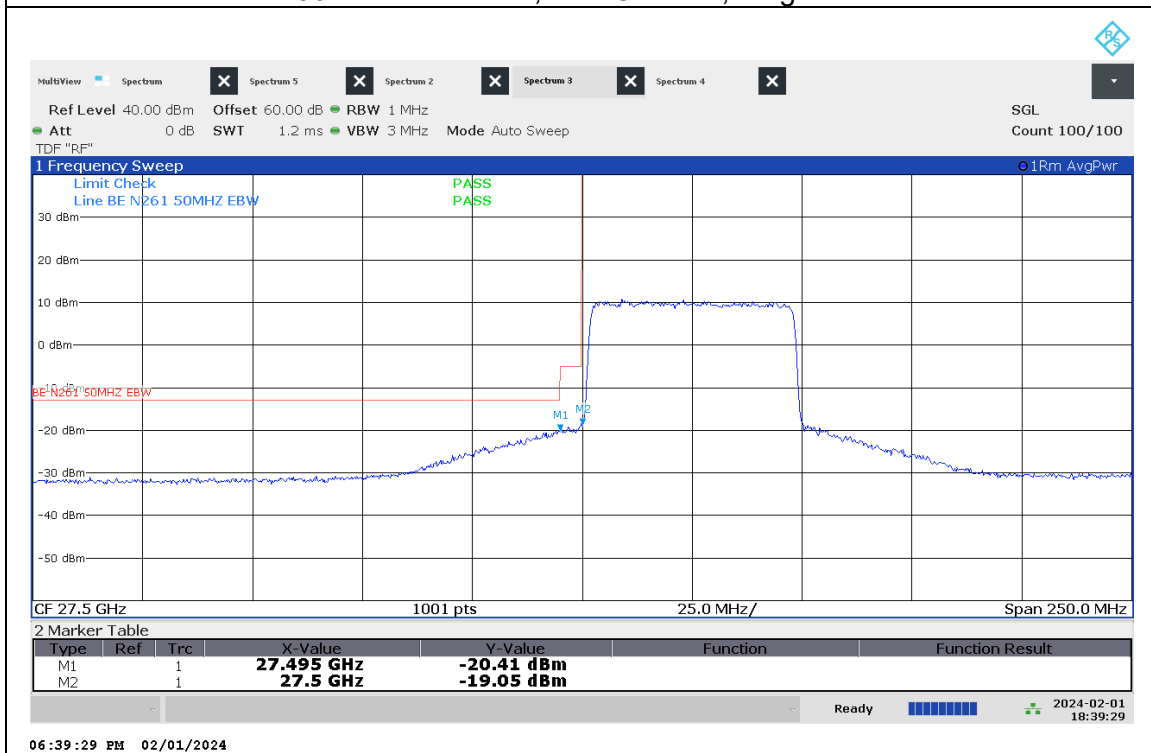


50MHz Bandwidth, High Channel, Full RB

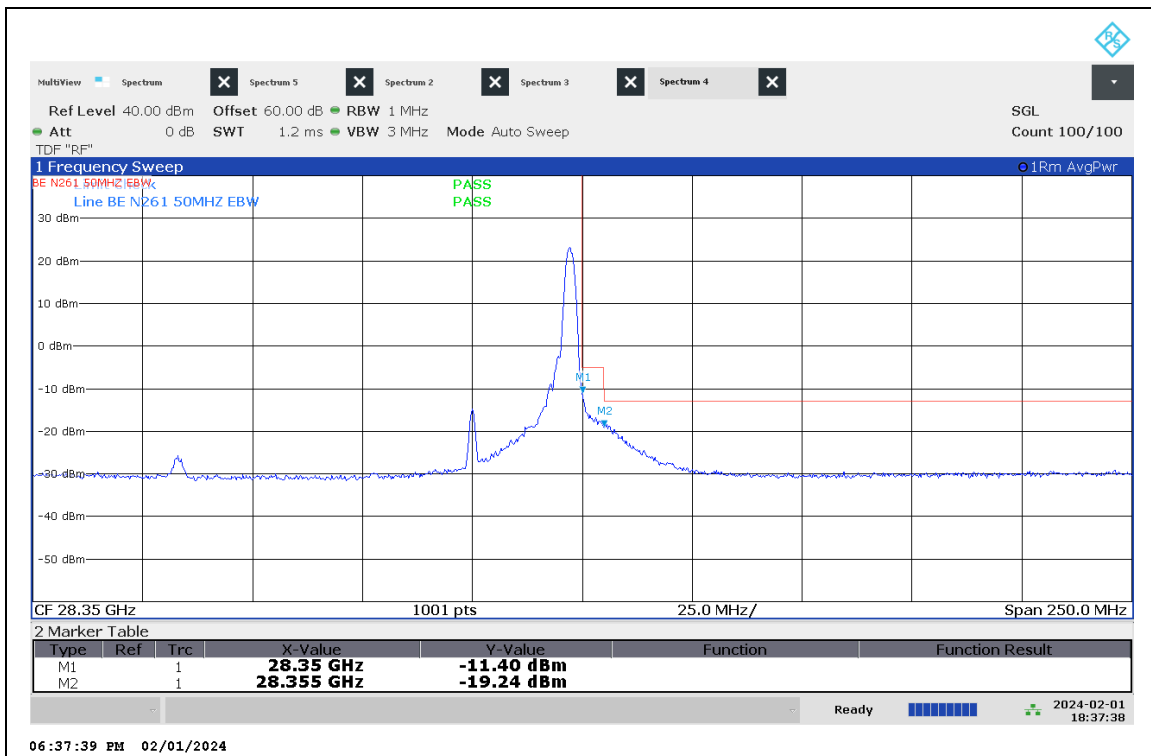
n261, ANT 0, MIMO, QPSK, 1CC



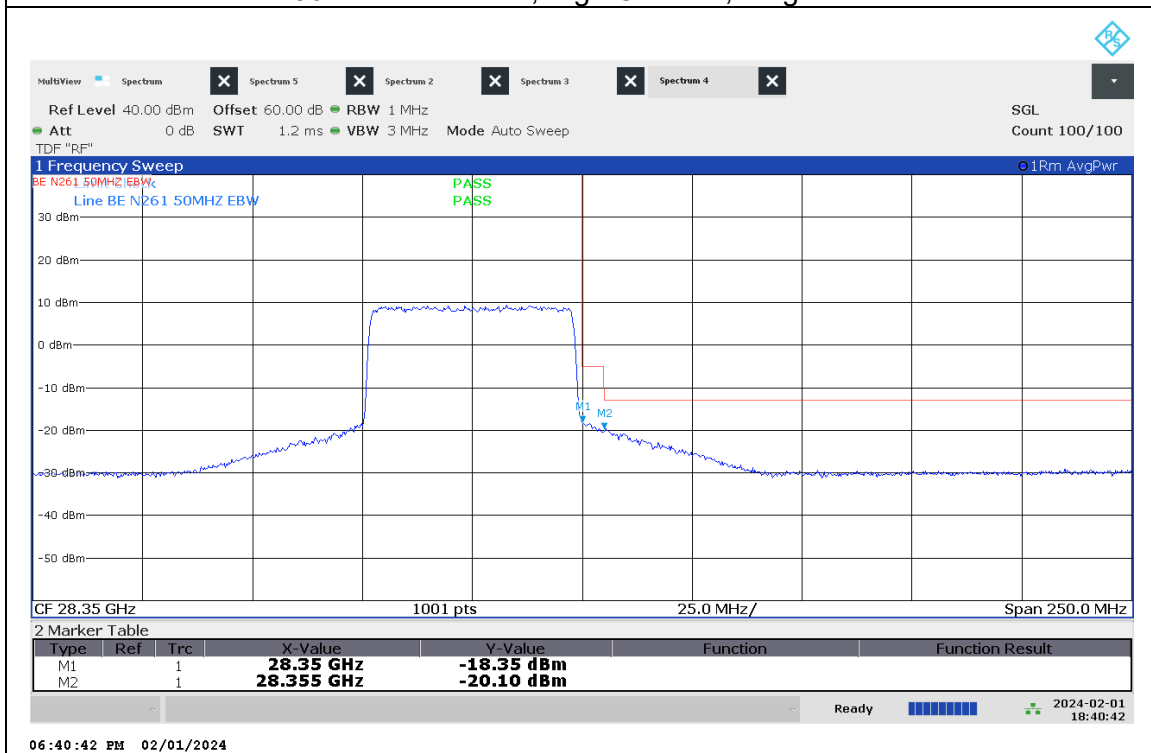
50MHz Bandwidth, Low Channel, Single RB



50MHz Bandwidth, Low Channel, Full RB



50MHz Bandwidth, High Channel, Single RB



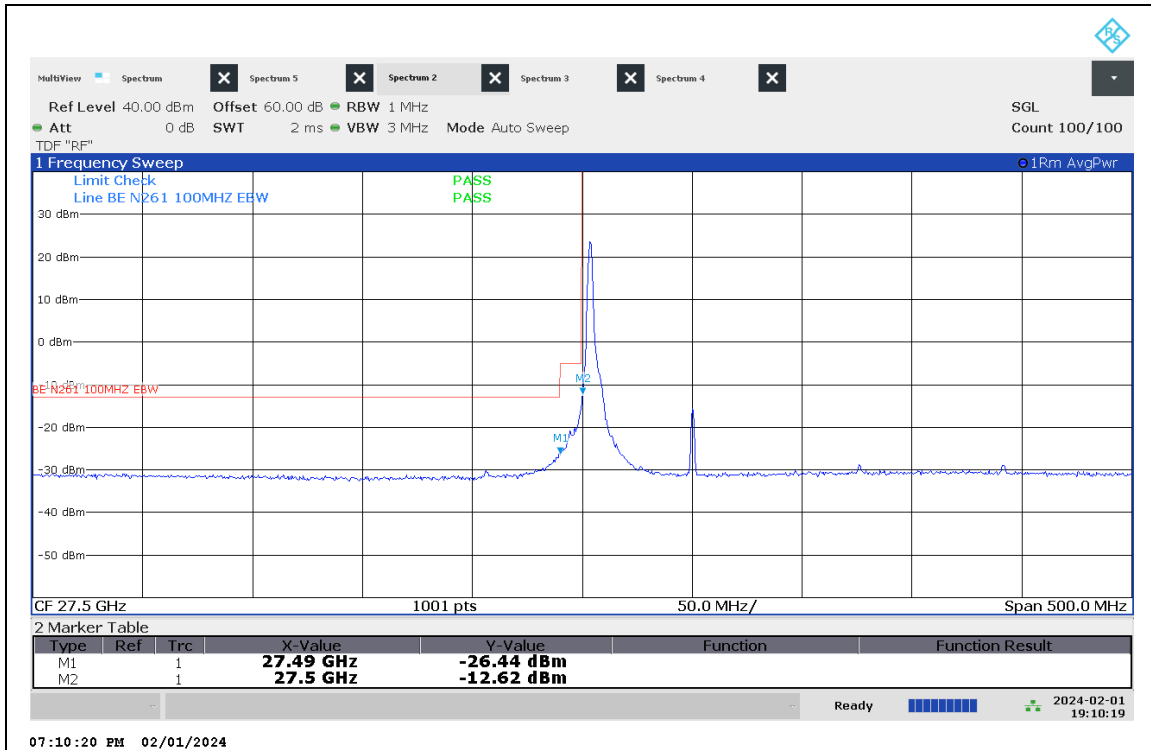
50MHz Bandwidth, High Channel, Full RB

8.3.8. n261 1CC 100MHz BANDWIDTH RESULTS

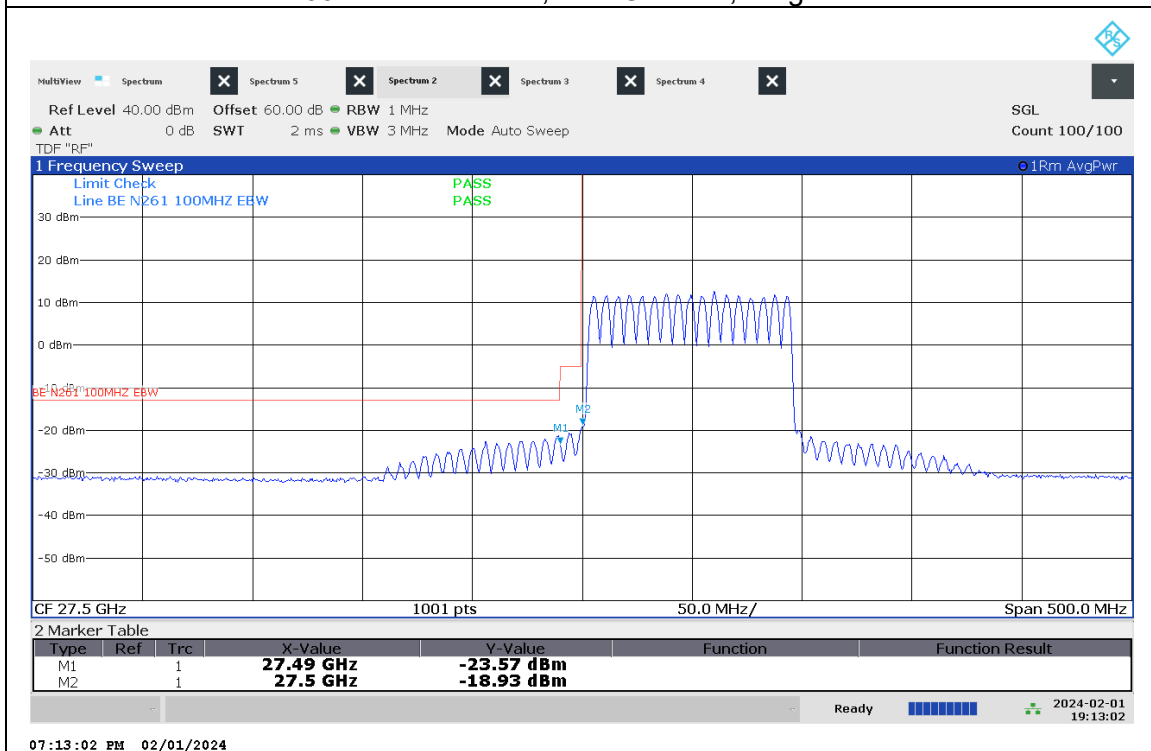
Modulation	Antenna	Control System	RB (Size/Offset)	Channel	Frequency (GHz)	Avg EIRP (dBm)	EUT Ant Gain (dBi)	Adj. EIRP (dBm)	Avg TRP Limit (dBm)	Margin (dB)
QPSK	ANT0	SISO 2TX	1/0	Low	27.49	-26.44	11.2	-37.64	-13	-24.64
					27.50	-12.62	11.2	-23.82	-5	-18.82
			64/0	Low	27.49	-23.57	11.2	-34.77	-13	-21.77
					27.50	-18.93	11.2	-30.13	-5	-25.13
			1/63	High	28.35	-14.47	11.2	-25.67	-5	-20.67
					28.36	-22.52	11.2	-33.72	-13	-20.72
			64/0	High	28.35	-22.38	11.2	-33.58	-5	-28.58
					28.36	-22.30	11.2	-33.5	-13	-20.5
		MIMO	1/0	Low	27.49	-25.60	11.2	-36.8	-13	-23.8
					27.50	-12.37	11.2	-23.57	-5	-18.57
			66/0	Low	27.49	-23.09	11.2	-34.29	-13	-21.29
					27.50	-21.84	11.2	-33.04	-5	-28.04
			1/65	High	28.35	-12.68	11.2	-23.88	-5	-18.88
					28.36	-22.66	11.2	-33.86	-13	-20.86
			66/0	High	28.35	-21.29	11.2	-32.49	-5	-27.49
					28.36	-23.48	11.2	-34.68	-13	-21.68
	ANT1	SISO 2TX	1/0	Low	27.49	-28.12	10.4	-38.52	-13	-25.52
					27.50	-17.00	10.4	-27.4	-5	-22.4
			64/0	Low	27.49	-22.04	10.4	-32.44	-13	-19.44
					27.50	-22.79	10.4	-33.19	-5	-28.19
			1/63	High	28.35	-22.09	10.4	-32.49	-5	-27.49
					28.36	-28.28	10.4	-38.68	-13	-25.68
			64/0	High	28.35	-25.71	10.4	-36.11	-5	-31.11
					28.36	-25.33	10.4	-35.73	-13	-22.73
		MIMO	1/0	Low	27.49	-28.53	10.4	-38.93	-13	-25.93
					27.50	-11.98	10.4	-22.38	-5	-17.38
			66/0	Low	27.49	-24.96	10.4	-35.36	-13	-22.36
					27.50	-23.26	10.4	-33.66	-5	-28.66
			1/65	High	28.35	-13.69	10.4	-24.09	-5	-19.09
					28.36	-25.91	10.4	-36.31	-13	-23.31
			66/0	High	28.35	-21.90	10.4	-32.3	-5	-27.3
					28.36	-23.76	10.4	-34.16	-13	-21.16

Modulation	Antenna	Control System	RB (Size/Offset)	Channel	Frequency (GHz)	Avg EIRP (dBm)	EUT Ant Gain (dBi)	Adj. EIRP (dBm)	Avg TRP Limit (dBm)	Margin (dB)
PI/2 BPSK	ANT0	SISO 2TX	64/0	Low	27.49	-25.50	11.2	-36.7	-13	-23.7
					27.50	-20.16	11.2	-31.36	-5	-26.36
	ANT1		64/0	High	28.35	-23.07	11.2	-34.27	-5	-29.27
					28.36	-25.68	11.2	-36.88	-13	-23.88
			64/0	Low	27.49	-24.48	11.2	-35.68	-13	-22.68
					27.50	-23.04	10.4	-33.44	-5	-28.44
16QAM	ANT0		64/0	Low	28.35	-26.24	10.4	-36.64	-5	-31.64
					28.36	-27.83	10.4	-38.23	-13	-25.23
	ANT1		64/0	High	27.49	-24.88	11.2	-36.08	-13	-23.08
					27.50	-21.79	11.2	-32.99	-5	-27.99
			64/0	High	28.35	-25.02	11.2	-36.22	-5	-31.22
					28.36	-25.33	11.2	-36.53	-13	-23.53
64QAM	ANT0	64/0	Low	27.49	-24.20	10.4	-34.6	-13	-21.6	
				27.50	-22.46	10.4	-32.86	-5	-27.86	
	ANT1	64/0	High	28.35	-27.08	10.4	-37.48	-5	-32.48	
				28.36	-26.84	10.4	-37.24	-13	-24.24	
		64/0	Low	27.49	-27.61	11.2	-38.81	-13	-25.81	
				27.50	-24.10	11.2	-35.3	-5	-30.3	
64QAM	ANT0	64/0	High	28.35	-26.75	11.2	-37.95	-5	-32.95	
				28.36	-28.23	11.2	-39.43	-13	-26.43	
	ANT1	64/0	Low	27.49	-26.05	10.4	-36.45	-13	-23.45	
				27.50	-23.84	10.4	-34.24	-5	-29.24	
		64/0	High	28.35	-28.99	10.4	-39.39	-5	-34.39	
				28.36	-29.55	10.4	-39.95	-13	-26.95	

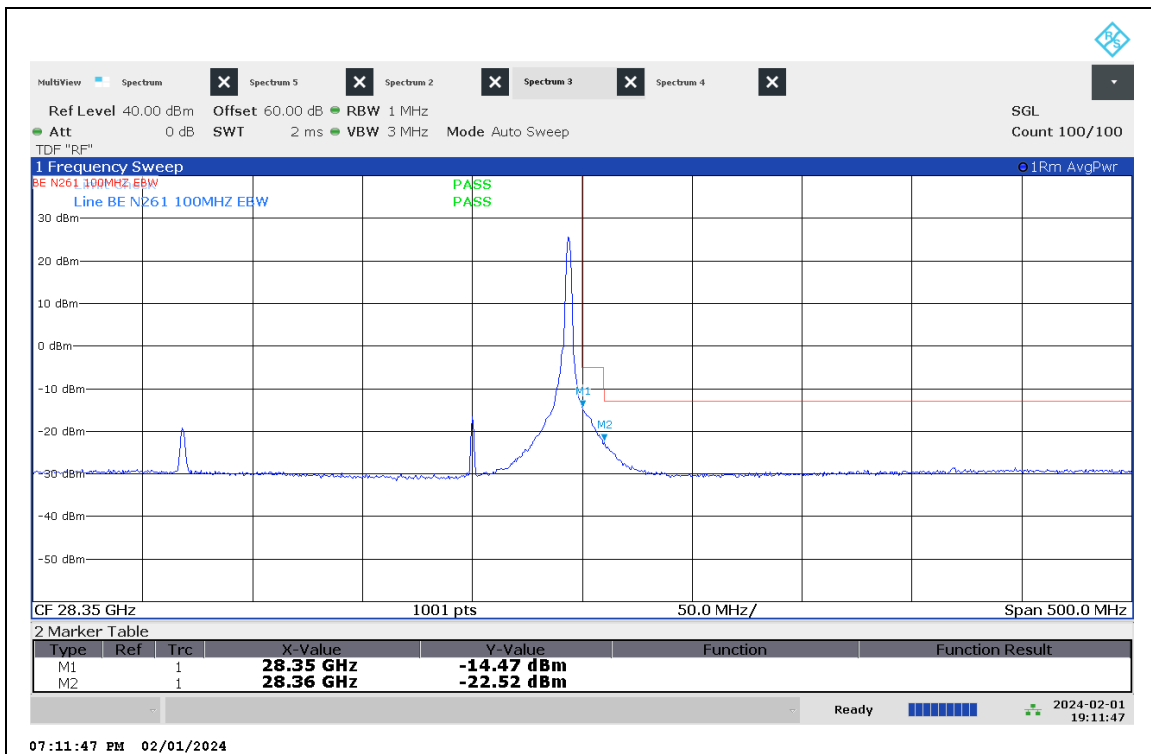
n261, ANT 0, SISO (2TX), QPSK, 1CC



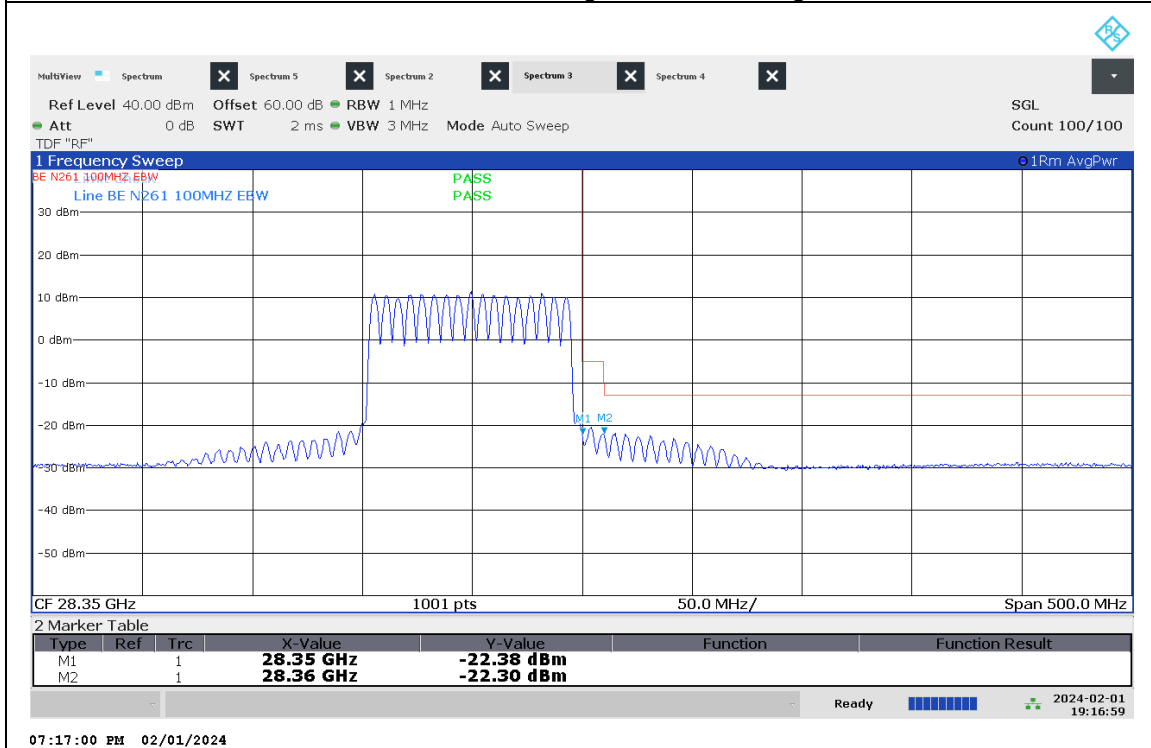
100MHz Bandwidth, Low Channel, Single RB



100MHz Bandwidth, Low Channel, Full RB

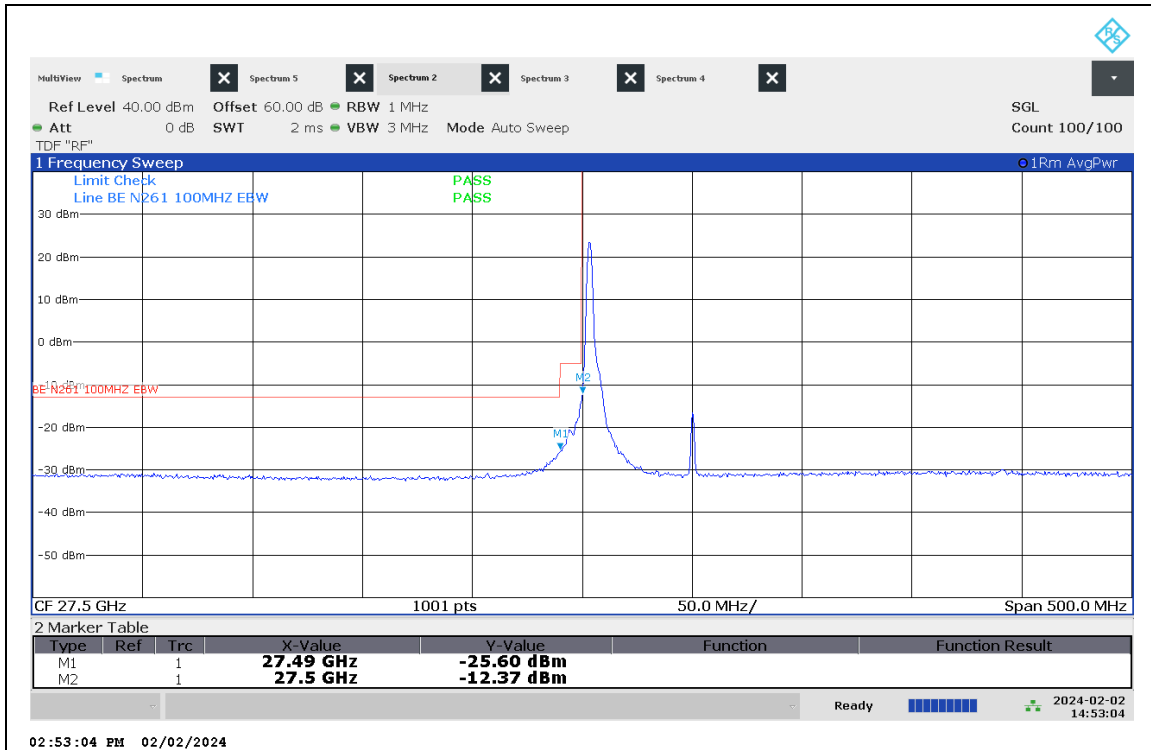


100MHz Bandwidth, High Channel, Single RB



100MHz Bandwidth, High Channel, Full RB

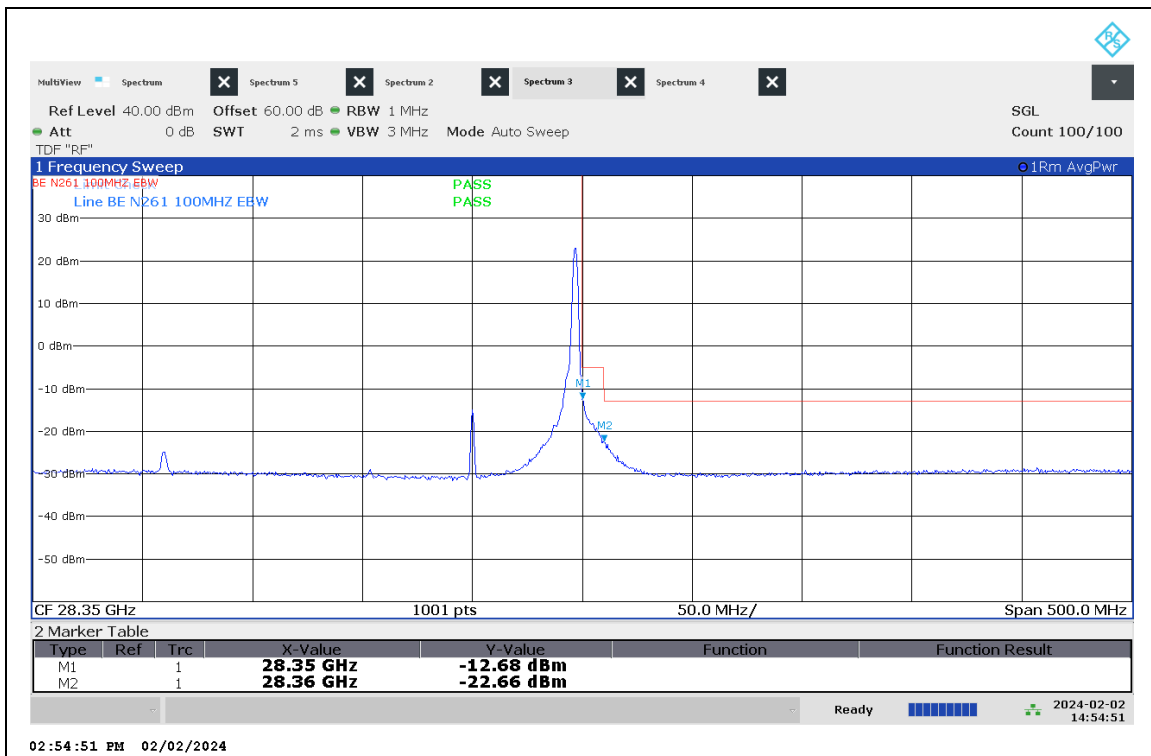
n261, ANT 0, MIMO, QPSK, 1CC



100MHz Bandwidth, Low Channel, Single RB



100MHz Bandwidth, Low Channel, Full RB



100MHz Bandwidth, High Channel, Single RB



100MHz Bandwidth, High Channel, Full RB

8.3.9. n261 2CC 100MHz BANDWIDTH RESULTS

Modulation	Antenna	Control System	RB (Size/Offset)	Channel	Frequency (GHz)	Avg EIRP (dBm)	EUT Ant Gain (dBi)	Adj. EIRP (dBm)	Avg TRP Limit (dBm)	Margin (dB)
QPSK	ANT0	SISO 2TX	1/0	Low	27.49	-27.81	11.2	-39.01	-13	-26.01
					27.50	-15.40	11.2	-26.6	-5	-21.6
			64/0	Low	27.49	-25.88	11.2	-37.08	-13	-24.08
					27.50	-28.88	11.2	-40.08	-5	-35.08
			1/63	High	28.35	-20.59	11.2	-31.79	-5	-26.79
					28.36	-27.08	11.2	-38.28	-13	-25.28
		MIMO	64/0	High	28.35	-25.68	11.2	-36.88	-5	-31.88
					28.36	-25.82	11.2	-37.02	-13	-24.02
			1/0	Low	27.49	-29.15	11.2	-40.35	-13	-27.35
					27.50	-16.96	11.2	-28.16	-5	-23.16
			66/0	Low	27.49	-28.12	11.2	-39.32	-13	-26.32
					27.50	-25.97	11.2	-37.17	-5	-32.17
			1/65	High	28.35	-15.98	11.2	-27.18	-5	-22.18
					28.36	-26.05	11.2	-37.25	-13	-24.25
			66/0	High	28.35	-26.07	11.2	-37.27	-5	-32.27
					28.36	-28.56	11.2	-39.76	-13	-26.76
	ANT1	SISO 2TX	1/0	Low	27.49	-29.33	10.4	-39.73	-13	-26.73
					27.50	-15.35	10.4	-25.75	-5	-20.75
			64/0	Low	27.49	-26.44	10.4	-36.84	-13	-23.84
					27.50	-26.60	10.4	-37	-5	-32
			1/63	High	28.35	-23.67	10.4	-34.07	-5	-29.07
					28.36	-28.66	10.4	-39.06	-13	-26.06
		MIMO	64/0	High	28.35	-26.31	10.4	-36.71	-5	-31.71
					28.36	-25.12	10.4	-35.52	-13	-22.52
			1/0	Low	27.49	-30.39	10.4	-40.79	-13	-27.79
					27.50	-19.04	10.4	-29.44	-5	-24.44
			66/0	Low	27.49	-29.26	10.4	-39.66	-13	-26.66
					27.50	-28.26	10.4	-38.66	-5	-33.66
			1/65	High	28.35	-20.27	10.4	-30.67	-5	-25.67
					28.36	-28.94	10.4	-39.34	-13	-26.34
			66/0	High	28.35	-27.50	10.4	-37.9	-5	-32.9
					28.36	-28.49	10.4	-38.89	-13	-25.89