

Ericsson AB

RF TEST REPORT

Report Type:

FCC Part 27 RF report

PRODUCT NAME:

Radio 4408 B77G

REPORT NUMBER:

231200287SHA-001

ISSUE DATE:

December 15, 2023

DOCUMENT CONTROL NUMBER:

TTRFFCC Part 27_V1 © 2018 Intertek



TEST REPORT

Applicant: Ericsson AB
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Manufacturer: Ericsson AB
Isafjordsgatan 10 SE-164 80 Stockholm 16480 Sweden

FCC ID: TA8AKRC1610030-1

SUMMARY:

The equipment is tested according to the following standard(s) or Specification:

FCC CFR 47 Part 27: MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

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Revision History

Report No.	Version	Description	Issued Date
231200287SHA-001	Rev. 01	Initial issue of report	December 15, 2023

Measurement result summary

TEST ITEM	FCC REFERANCE	RESULT
Max Output Power and Peak to Average Power Ratio and EIRP	27.50(k) 2.1046	Pass
Occupied Bandwidth	2.1049	Pass
Unwanted Emissions at Band Edge	27.53(n) 2.1051	Pass
Conducted Unwanted Emission	27.53(n) 2.1051	Pass

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Description:	Remote Radio Unit
Product name:	Radio 4408 B77G
Product number:	KRC 161 0030/1
Serial Number(s)	EA8B144613
Rating:	36V DC
Software Version:	CXP9013268%15_R96JK
Hardware Version:	R1A
Sample received date:	November 21, 2023
Date of test:	November 21, 2023 ~ November 27, 2023

1.2 Technical Specification

Frequency Range:	3450-3550MHz
Number of Antenna ports:	4 TX/RX
Supported RAT:	NR
Max RF bandwidth (IBW):	100MHz
Supported Number of Carriers:	Maximum 6 carriers
Supported modulation:	QPSK, 16QAM, 64QAM, 256QAM
Supported Channel Bandwidth:	NR:10MHz,15MHz,20MHz,30MHz,40MHz,50MHz,60MHz,70MHz,80MHz,90MHz,100MHz with SCS 30kHz
Declaration output power:	Maximum 5W per port

Note: Information in the 1.2 sheet declared by the manufacturer.

TEST REPORT**1.3 Description of Test Facility**

Conducted testing:

Name:	Intertek Testing Services Shanghai
Address 1:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Address 2:	F9&F8&F7, Tianfu Software Park E7 Tower, No. 1366 Tianfu Avenue Middle, Hightech Zone, Chengdu City, Sichuan Province, P.R. of China
Telephone:	+86 21 61278200
Telefax:	+86 21 54262353
The test facility is recognized, certified, or accredited by these organizations:	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Related documents

FCC Part 27 (2022)

FCC Part 2 (2022)

ANSI C63.26:2015

KDB 971168 D01 v03r01

KDB 662911 D01 v02r01

2.2 Product Information

The Equipment Under Test (EUT) Radio 4408 B77G is an Ericsson Radio Unit working in the wireless communication services 3450-3550MHz band which provides communication connections to 3450-3550MHz network. Radio 4408 B77G operates from a -48V DC or 120VAC 60Hz.

The EUT includes 4 TX/RX ports. It can be configured to transmit in MIMO mode, and MIMO mode was used for measurements as the worst configuration. The complete testing was performed with the EUT transmitting at maximum RF power unless otherwise stated.

A full technical description can be found in the Manufacturer's documentation.

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2.3 Configuration Description

The following settings were used to represent all traffic scenarios. The output power was measured on the bottom, middle and top channel of all applicable antenna ports. By measuring the output power of QPSK, 16QAM, 64QAM and 256QAM on one of the antenna ports, it was determined that 256QAM for NR was the worst case modulation schemes and were used for all testing.

Complete testing was carried out on the worst case antenna port which was established as being the highest output power from the 4 measured ports on worst case modulation scheme. This antenna port was Port D for all modes.

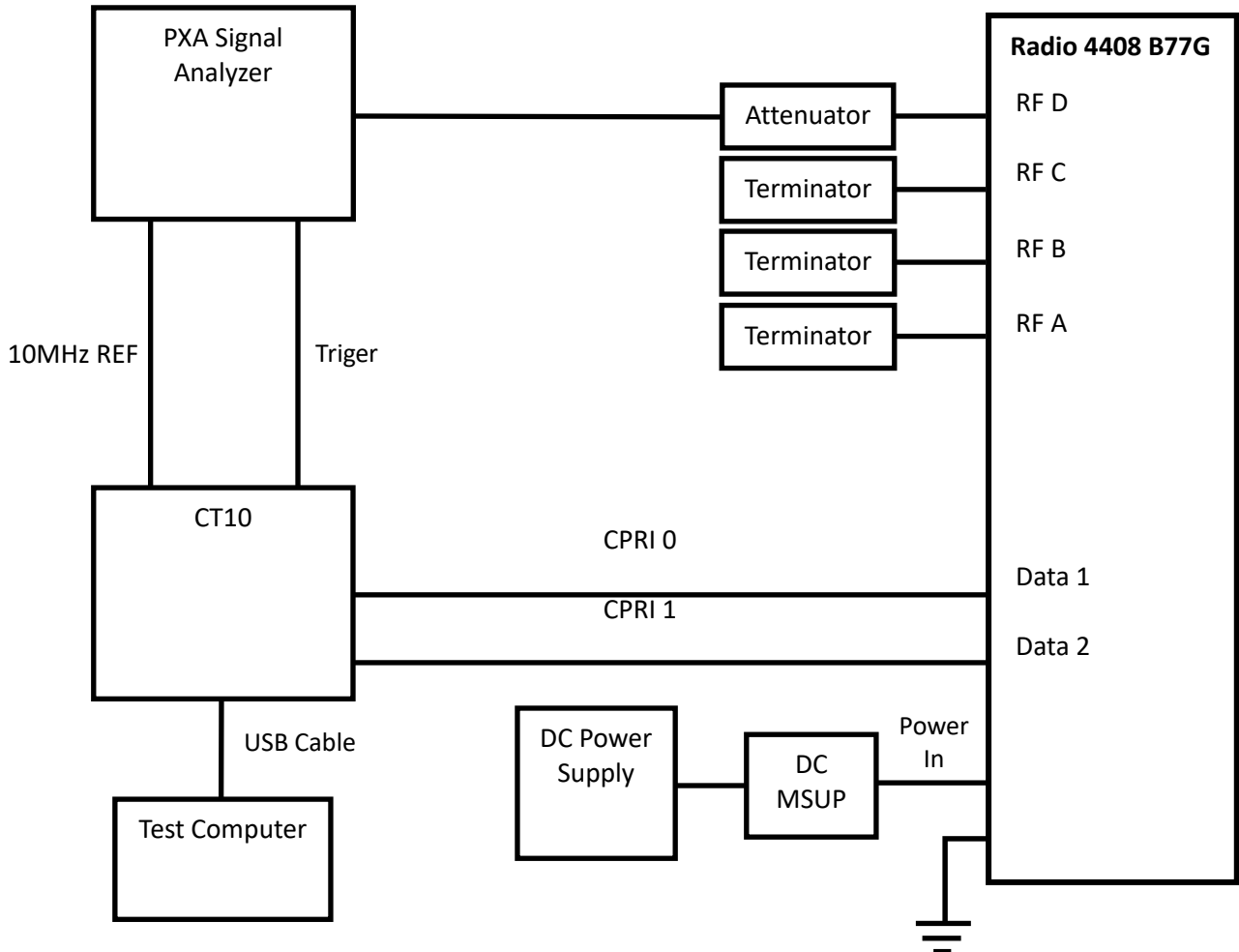
The settings below were used for all measurements unless otherwise noted:

Configuration	Carrier	NR Carrier Bandwidth (MHz)	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
NR-1C	1	10	3455.01	3500.01	3545.01
		15	3457.50	3500.01	3542.52
NR-2C	2	10	-	3455.01+3545.01	-
		15	-	3457.50+3542.49	-
NR-6C	6	10	-	3455.01+3465.00+3475.02+3525.00+3535.02+3545.01	-
		15	-	3457.50+3472.50+3487.50+3512.52+3527.52+3542.49	-

Configuration	Carrier	NR Carrier Bandwidth (MHz)	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
NR-1C-UE	1	10	3455.01	-	3545.01
		15	3457.50	-	3542.52
NR-2C-UE	2	10	3455.01+3465.00	-	3535.02+3545.01
		15	3457.50+3472.50	-	3527.52+3542.52
NR-6C-UE	6	10	3455.01+3465.00+3475.02+3485.01+3495.00+3505.02	-	3495.00+3505.02+3515.01+3525.00+3535.02+3545.01
		15	3457.50+3472.50+3487.50+3502.50+3517.50+3532.50	-	3467.52+3482.52+3497.52+3512.52+3527.52+3542.52

2.4 Test Setup

Conducted Measurement:



TEST REPORT

No.	Auxiliary Equipment	Product Number / Model Type	Version
1	Test computer	DELL OptiPlex 3050	-
2	CT10	LPC 102487/1	R1C
3	DC MSUP	Support 6502	-
4	DC Power Supply	US21E7359S	-
5	10db Attenuator	2.92TS100-10-26.5-A	-
6	40db Attenuator	47-40-33-LIM	-
7	Terminator	TFZ50-3R	-
8	6Ghz HPF	CW-DPF-0-12750-E15-M2	-
9	16Ghz HPF	CW-HPF-12750-16000-E11-M2	-
10	26Ghz HPF	CW-HPF-16000-26000-E11-M2	-
11	40Ghz HPF	CW-HPF-26000-40000-E11-M2	-
11	B77G Diplexer	M-DUPH-186-B77G(3450-3550)	-

Proper Attenuator/Diplexer/HPF will be chosen to use in relative test case. And the cable loss of specified Attenuator/Diplexer/HPF with connect cable will be calibrated before test for relative frequency range and the worst reading will be used as offset in the relative test case.

2.5 Test environment condition:

Test items	Temperature	Humidity
Max Output Power and Peak to Average Power Ratio and EIRP	20°C to 24°C	45%RH to 55%RH
Occupied Bandwidth		
Unwanted Emissions at Band Edge		
Conducted Unwanted Emission		

2.6 Instrument list

Intertek Testing Services Shanghai					
Used	Equipment	Manufacturer	Type	S/N	Due date
<input checked="" type="checkbox"/>	Signal Analyzer	Rohde & Schwarz	FSVA3044	101087	2024-07-09
<input checked="" type="checkbox"/>	Signal Analyzer	Keysight	N9030B	MY57140894	2024-07-09
<input checked="" type="checkbox"/>	Hygrometer	TESTO	608-H1	1745127476	2023-12-09

TEST REPORT**2.7 Measurement uncertainty**

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Test item	Measurement uncertainty
Maximum output power	0.73dB
Occupied Bandwidth	0.88%
Unwanted Emissions at Band Edge	3.03dB
Conducted Unwanted Emission	3.03dB

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3 Maximum Output Power and Peak to Average Power Ratio and EIRP

Test result: Pass

3.1 Limit

(1) The power of each fixed or base station transmitting in the 3450-3550 MHz band and located in any county with population density of 100 or fewer persons per square mile, based upon the most recently available population statistics from the Bureau of the Census, is limited to an equivalent isotropically radiated power (EIRP) of 3280 Watts/MHz. This limit applies to the aggregate power of all antenna elements in any given sector of a base station.

(2) The power of each fixed or base station transmitting in the 3450-3550 MHz band and situated in any geographic location other than that described in paragraph (k)(1) of this section is limited to an EIRP of 1640 Watts/MHz. This limit applies to the aggregate power of all antenna elements in any given sector of a base station.

Peak to Average Ratio: ≤ 13 dB

3.2 Measurement Procedure

The EUT was configured to transmit on maximum power and proper modulation. The transmitter power shall be measured in terms of a root-mean-square (RMS) average value. In case of the EUT was configured to MIMO mode, since the EUT transmits on all antennas simultaneously in the same frequency range, using the Measure-and-Sum approach, the output power at all antennas were tested, and the total output power were then summed mathematically in linear power units according to FCC KDB 662911 D01.

A peak to average ratio measurement is performed at the conducted ports of the EUT for single carrier for single RAT mode. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) was used and 0.1% probability value recorded.

3.3 Measurement result

NR-1C

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	256QAM	10	37.15	28.44	7.31	37.14	28.29	7.94	37.17	28.55	7.33
B	256QAM	10	37.05	28.32	7.52	37.09	28.23	7.94	37.09	28.44	7.38
C	256QAM	10	37.20	28.44	7.36	37.14	28.24	7.94	37.16	28.56	7.33
D	256QAM	10	37.13	28.48	7.40	37.16	28.27	7.93	37.11	28.42	7.33
Total A-D Power			43.15	34.44	-	43.15	34.28	-	43.15	34.51	-
Antenna gain			12 dBi								
EIRP			55.15	46.44	-	55.15	46.28	-	55.15	46.51	-
Limit			-	62.15	13	-	62.15	13	-	62.15	13

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	256QAM	15	37.12	26.43	7.52	37.11	26.20	7.95	37.09	26.51	7.49
B	256QAM	15	37.09	26.41	7.64	37.16	26.25	7.95	37.11	26.46	7.50
C	256QAM	15	37.14	26.45	7.55	37.12	26.21	7.93	37.14	26.50	7.46
D	256QAM	15	37.13	26.45	7.52	37.16	26.26	7.95	37.20	26.57	7.55
Total A-D Power			43.14	32.46	-	43.16	32.25	-	43.16	32.53	-
Antenna gain			12 dBi								
EIRP			55.14	44.46	-	55.16	44.25	-	55.16	44.53	-
Limit			-	62.15	13	-	62.15	13	-	62.15	13

NR-2C

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	256QAM	10	-	-	-	37.08	25.37	-	-	-	-
B	256QAM	10	-	-	-	36.99	23.46	-	-	-	-
C	256QAM	10	-	-	-	37.06	25.39	-	-	-	-
D	256QAM	10	-	-	-	37.15	25.49	-	-	-	-
Total A-D Power			-	-	-	43.09	31.02	-	-	-	-
Antenna gain			12 dBi								
EIRP			-	-	-	55.09	43.02	-	-	-	-
Limit			-	-	-	-	62.15	-	-	-	-

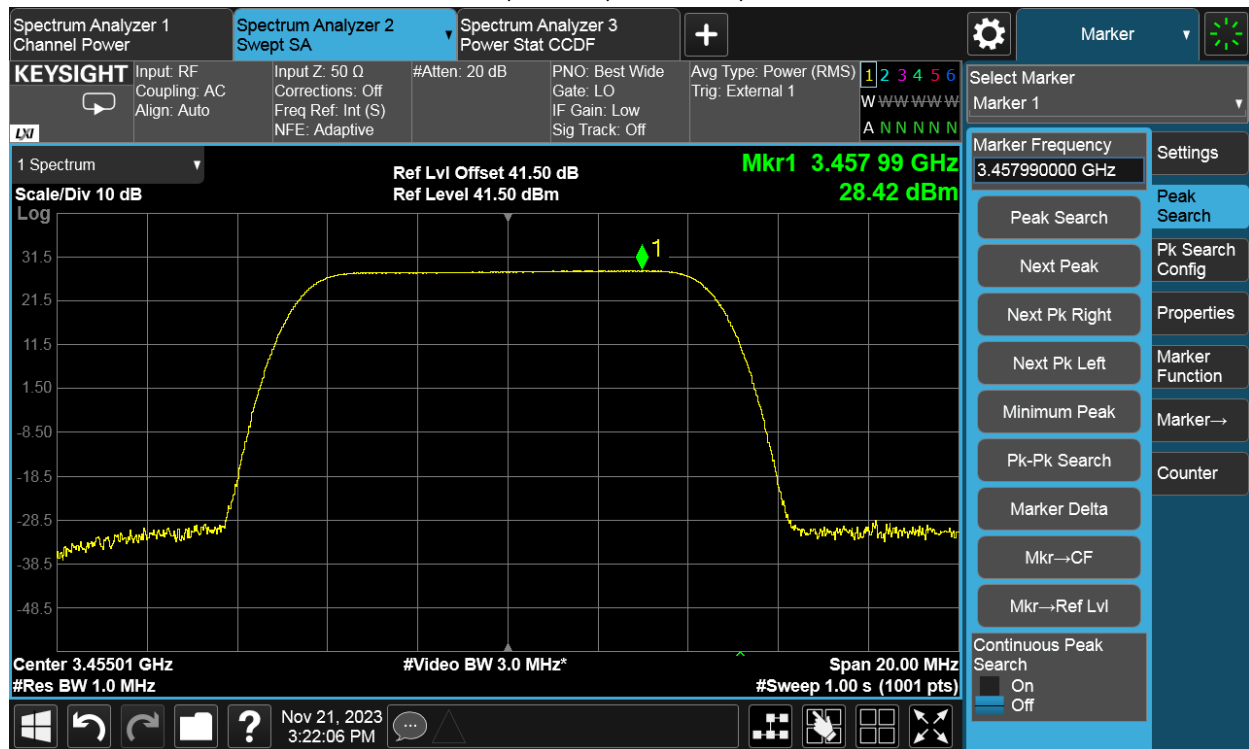
Antenna Port	Modulation	Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	256QAM	15	-	-	-	37.09	23.48	-	-	-	-
B	256QAM	15	-	-	-	37.01	23.40	-	-	-	-
C	256QAM	15	-	-	-	37.09	23.44	-	-	-	-
D	256QAM	15	-	-	-	37.14	23.52	-	-	-	-
Total A-D Power			-	-	-	43.10	29.47	-	-	-	-
Antenna gain			12 dBi								
EIRP			-	-	-	55.10	41.47	-	-	-	-
Limit			-	-	-	-	62.15	-	-	-	-

NR-6C

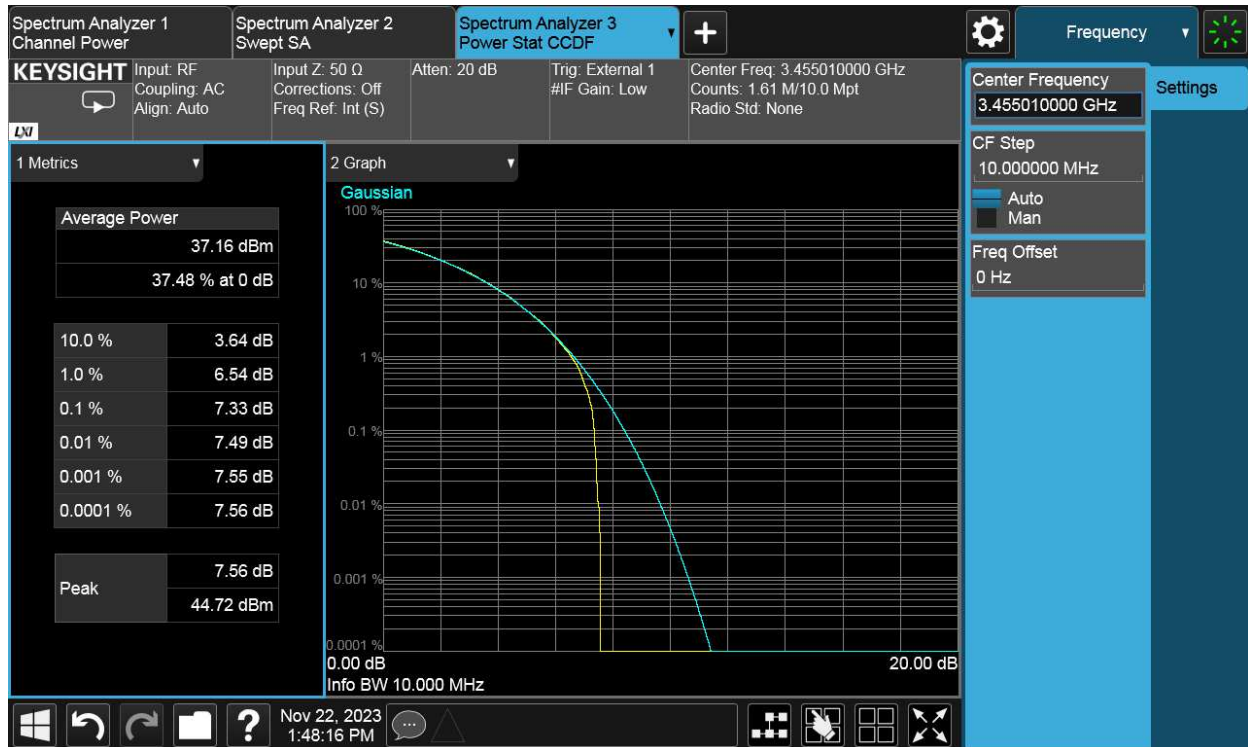
Antenna Port	Modulation	Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	256QAM	10	-	-	-	37.01	20.52	-	-	-	-
B	256QAM	10	-	-	-	36.97	20.50	-	-	-	-
C	256QAM	10	-	-	-	37.03	20.55	-	-	-	-
D	256QAM	10	-	-	-	37.04	20.55	-	-	-	-
Total A-D Power			-	-	-	43.03	26.55	-	-	-	-
Antenna gain			12 dBi								
EIRP			-	-	-	55.03	38.55	-	-	-	-
Limit			-	-	-	-	62.15	-	-	-	-

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	256QAM	15	-	-	-	37.10	18.69	-	-	-	-
B	256QAM	15	-	-	-	36.98	18.53	-	-	-	-
C	256QAM	15	-	-	-	37.12	18.70	-	-	-	-
D	256QAM	15	-	-	-	37.13	18.77	-	-	-	-
Total A-D Power			-	-	-	43.10	24.69	-	-	-	-
Antenna gain			12 dBi								
EIRP			-	-	-	55.10	36.69	-	-	-	-
Limit			-	-	-	-	62.15	-	-	-	-

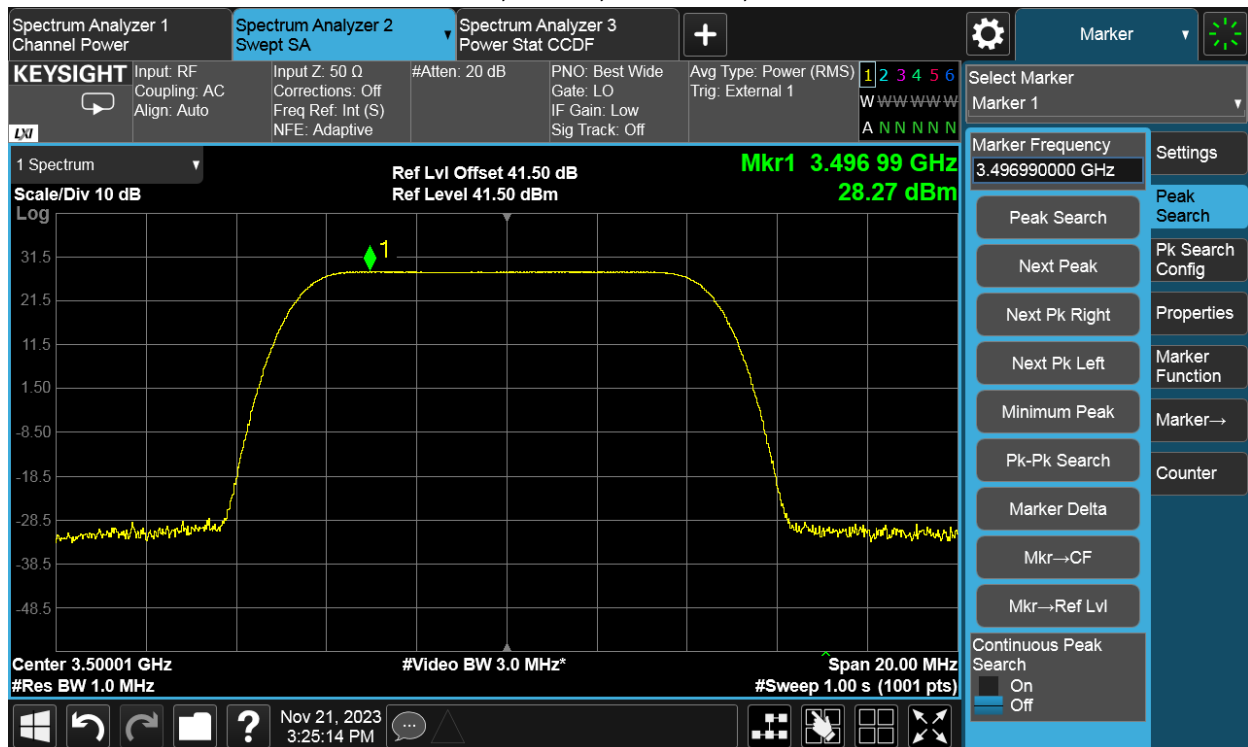
NR-1C, 10MHz, Channel B, Power



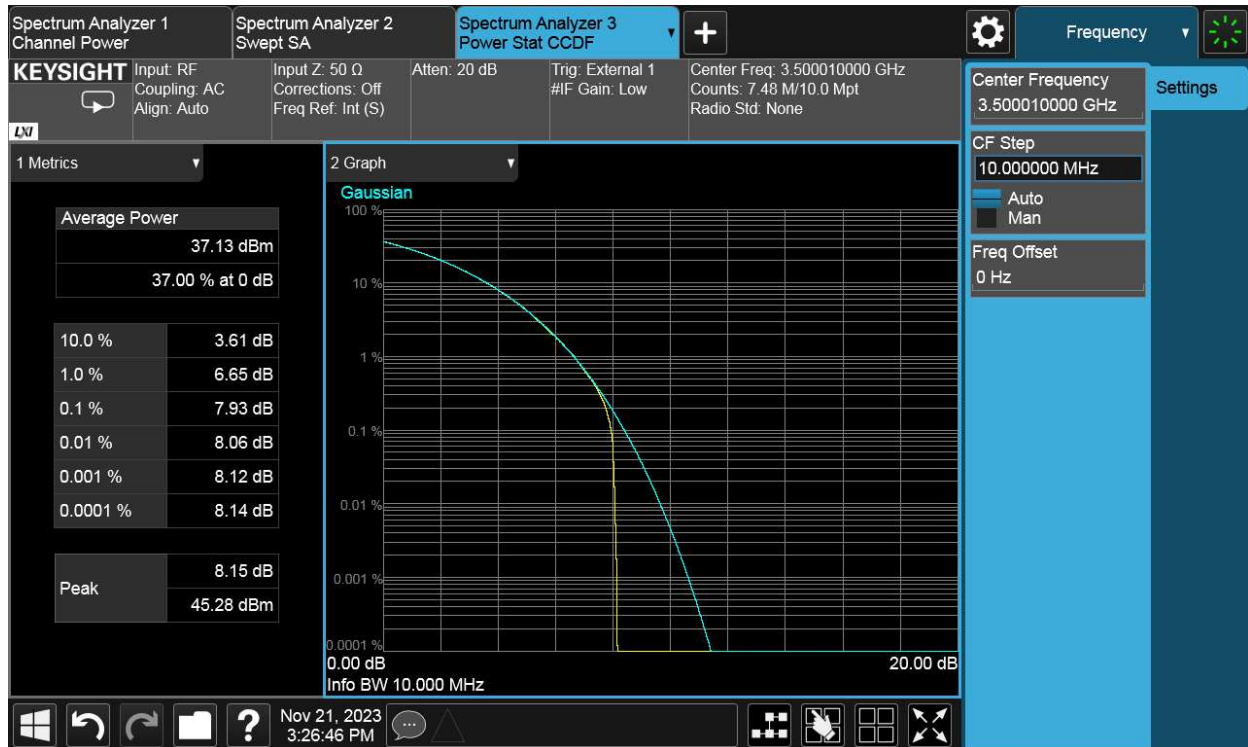
NR-1C, 10MHz, Channel B, PAR



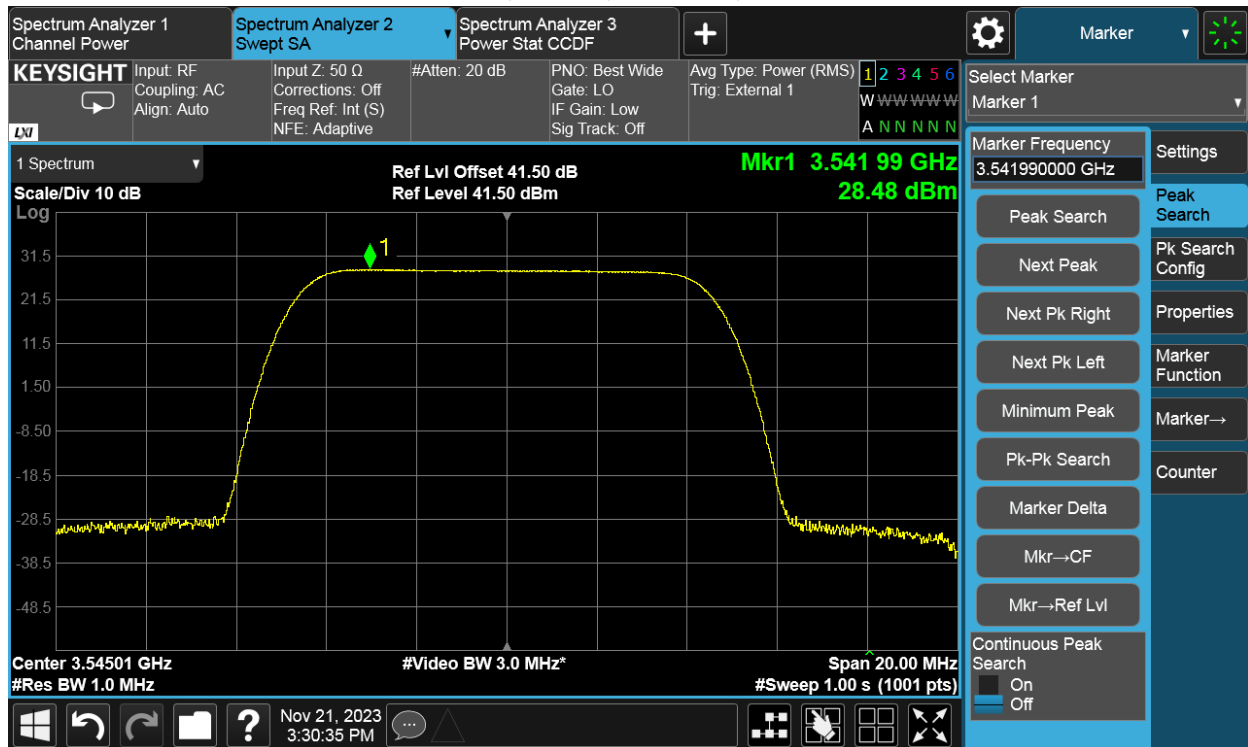
NR-1C, 10MHz, Channel M, Power



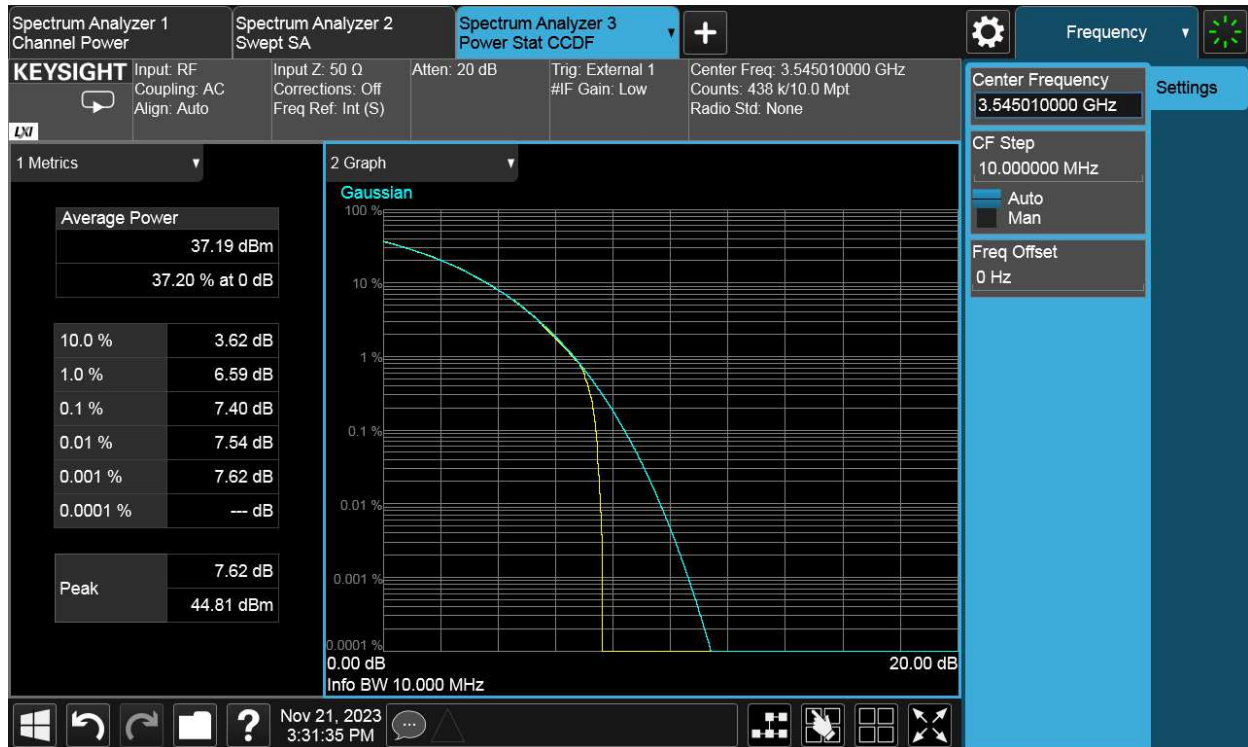
NR-1C, 10MHz, Channel M, PAR



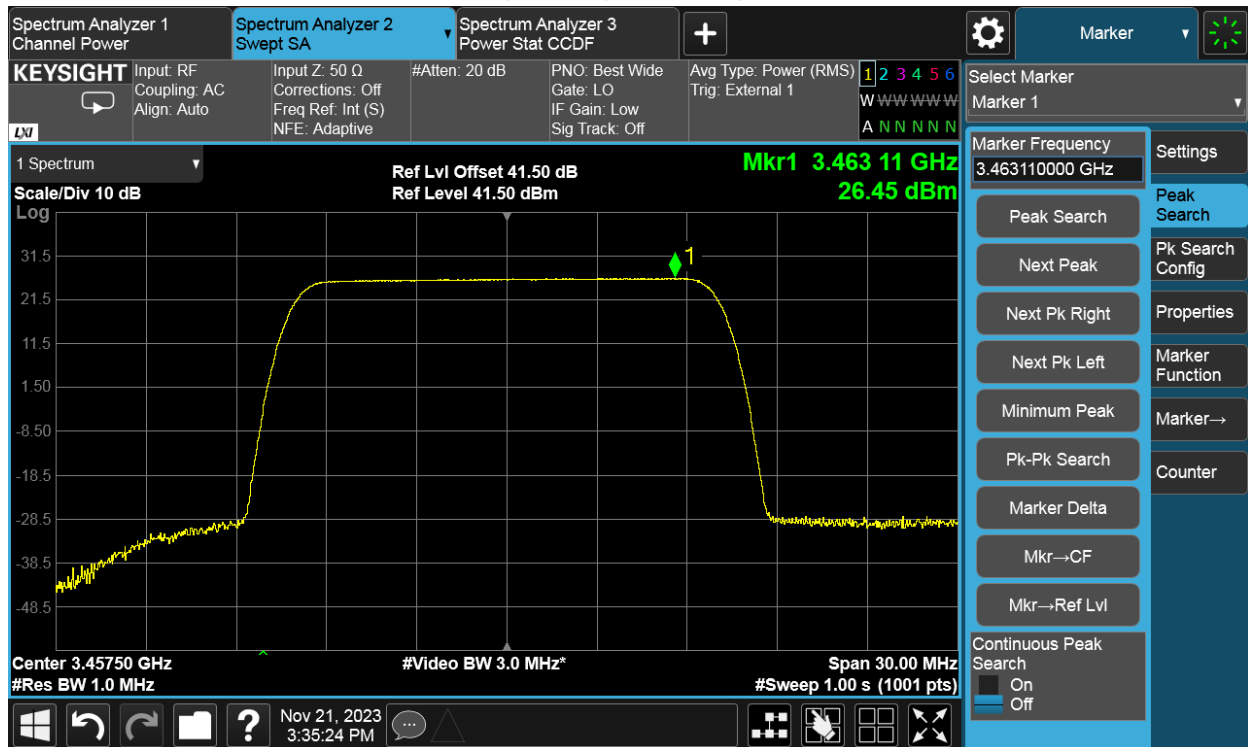
NR-1C, 10MHz, Channel T, Power



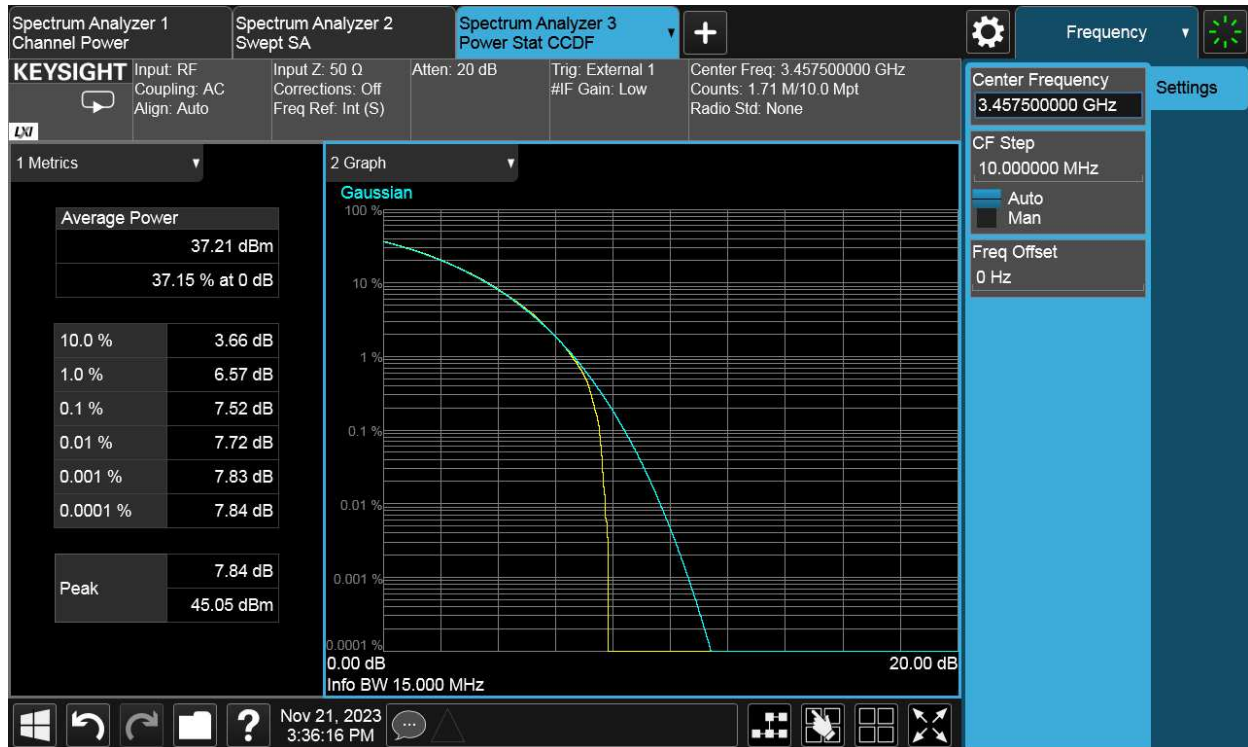
NR-1C, 10MHz, Channel T, PAR



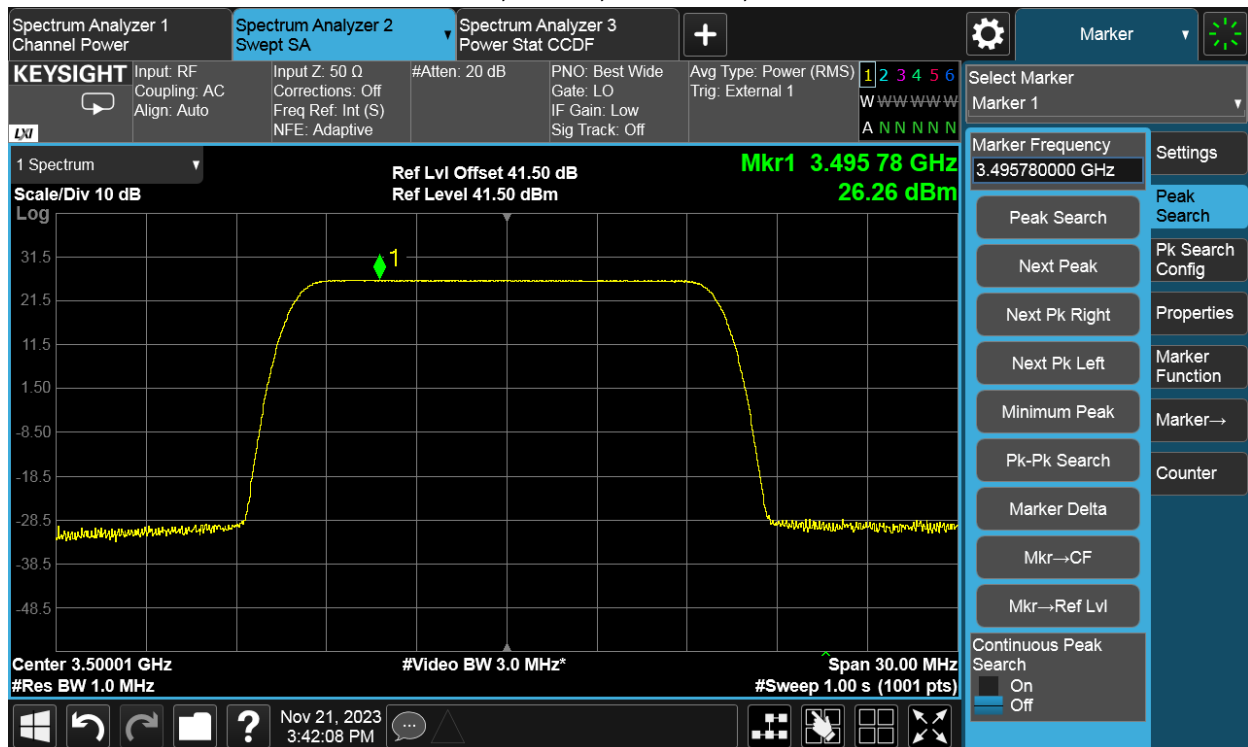
NR-1C, 15MHz, Channel B, Power



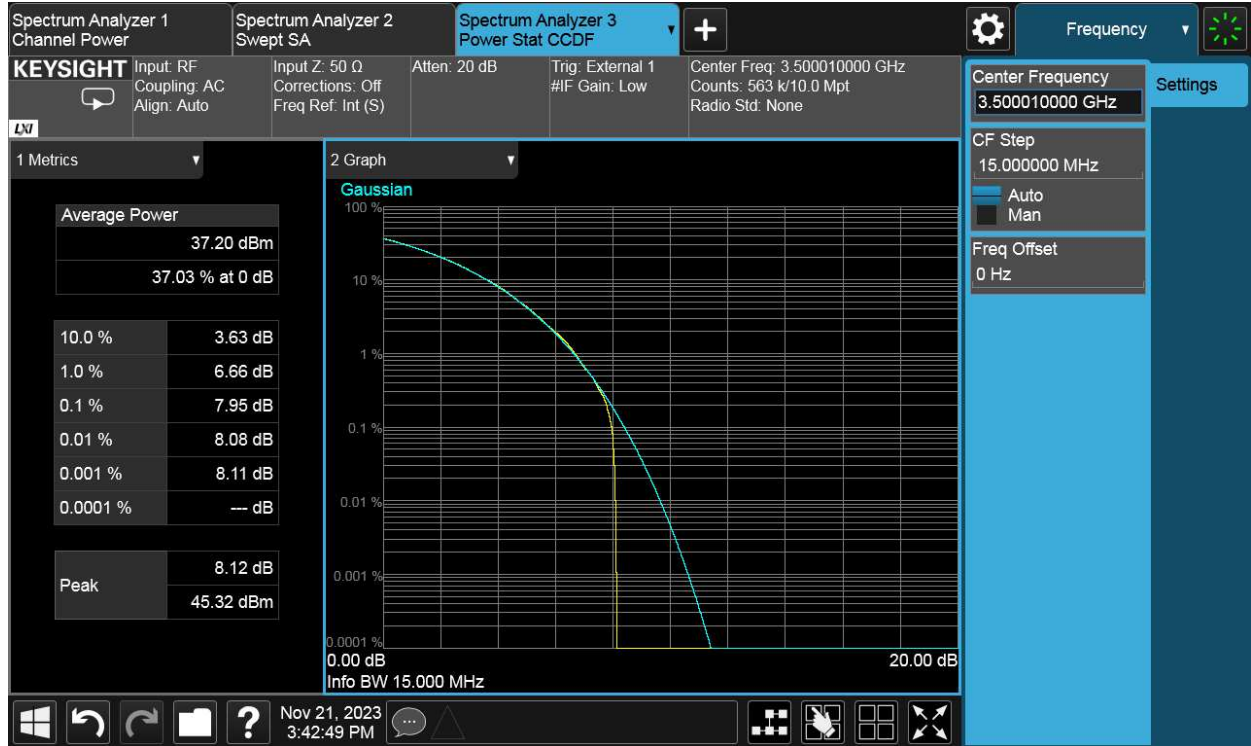
NR-1C, 15MHz, Channel B, PAR



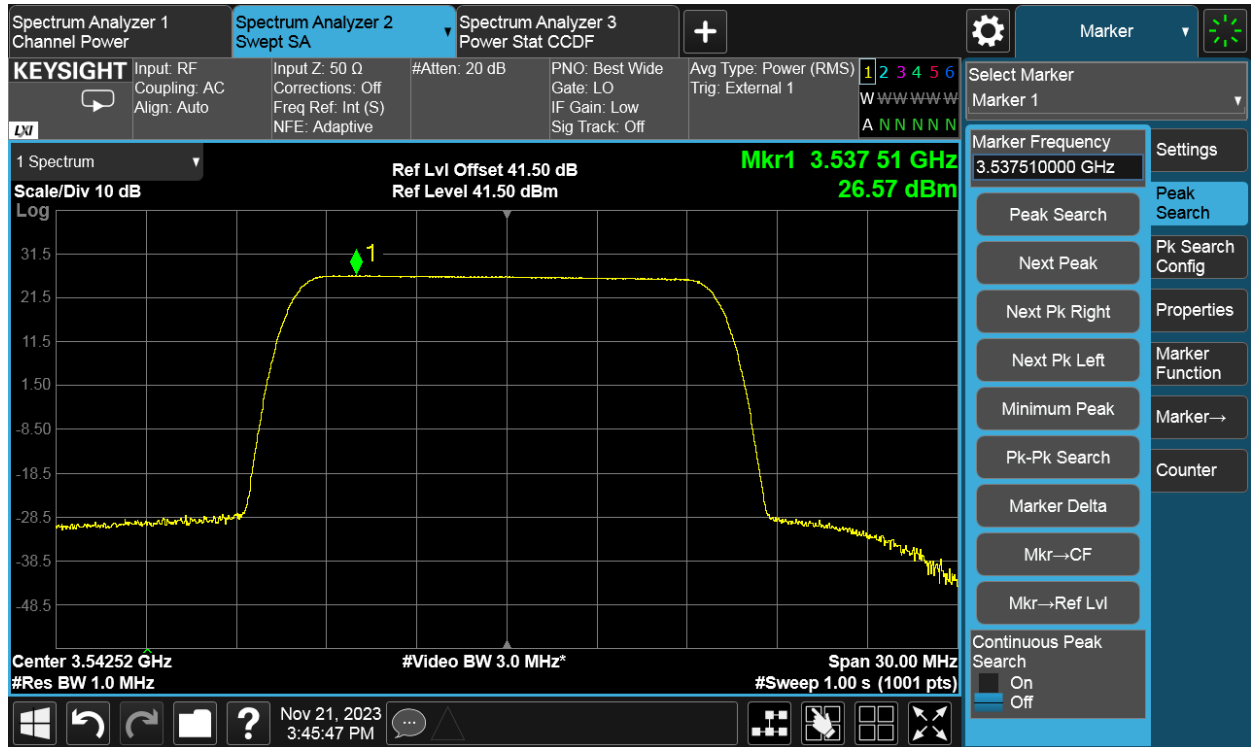
NR-1C, 15MHz, Channel M, Power



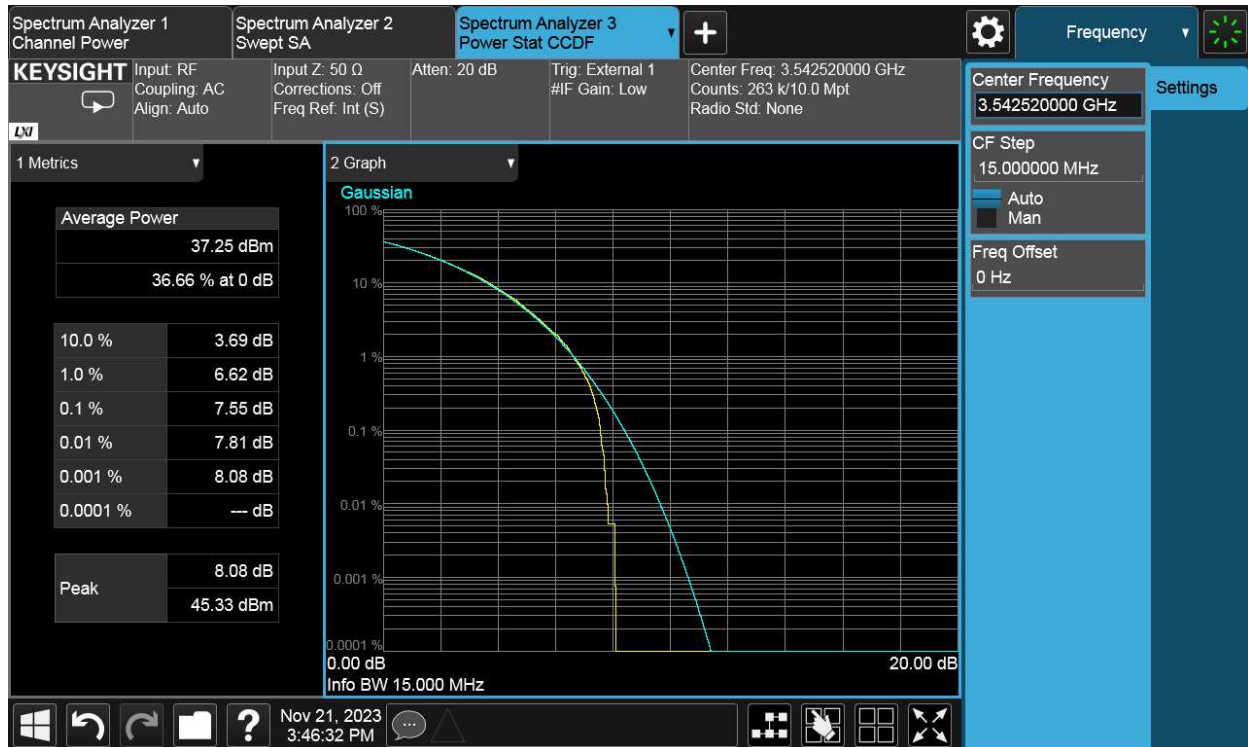
NR-1C, 15MHz, Channel M, PAR



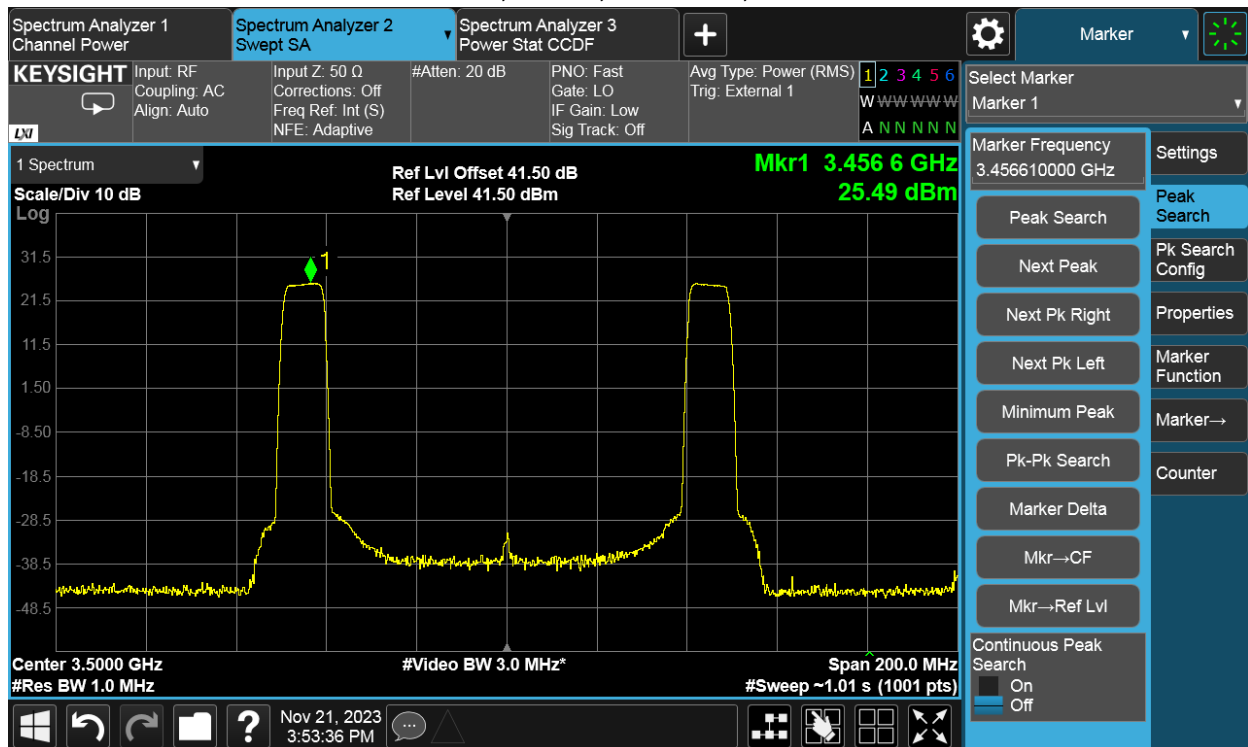
NR-1C, 15MHz, Channel T, Power



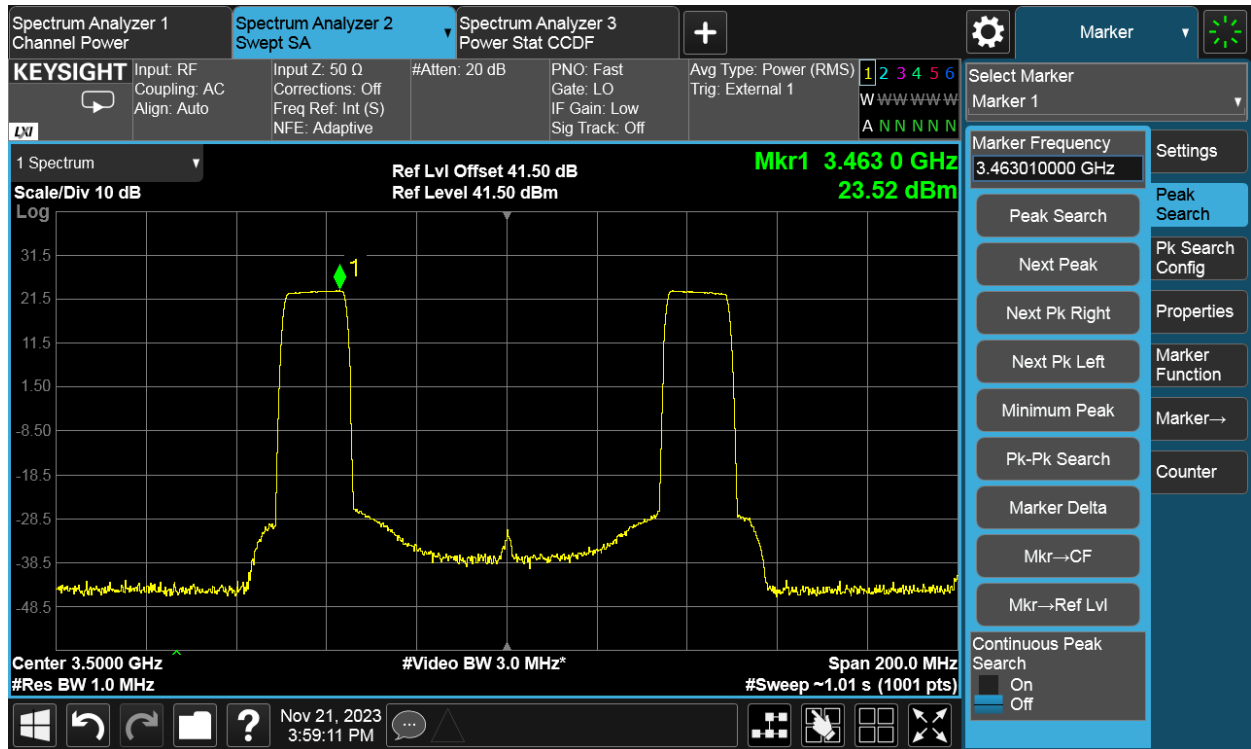
NR-1C, 15MHz, Channel T, PAR



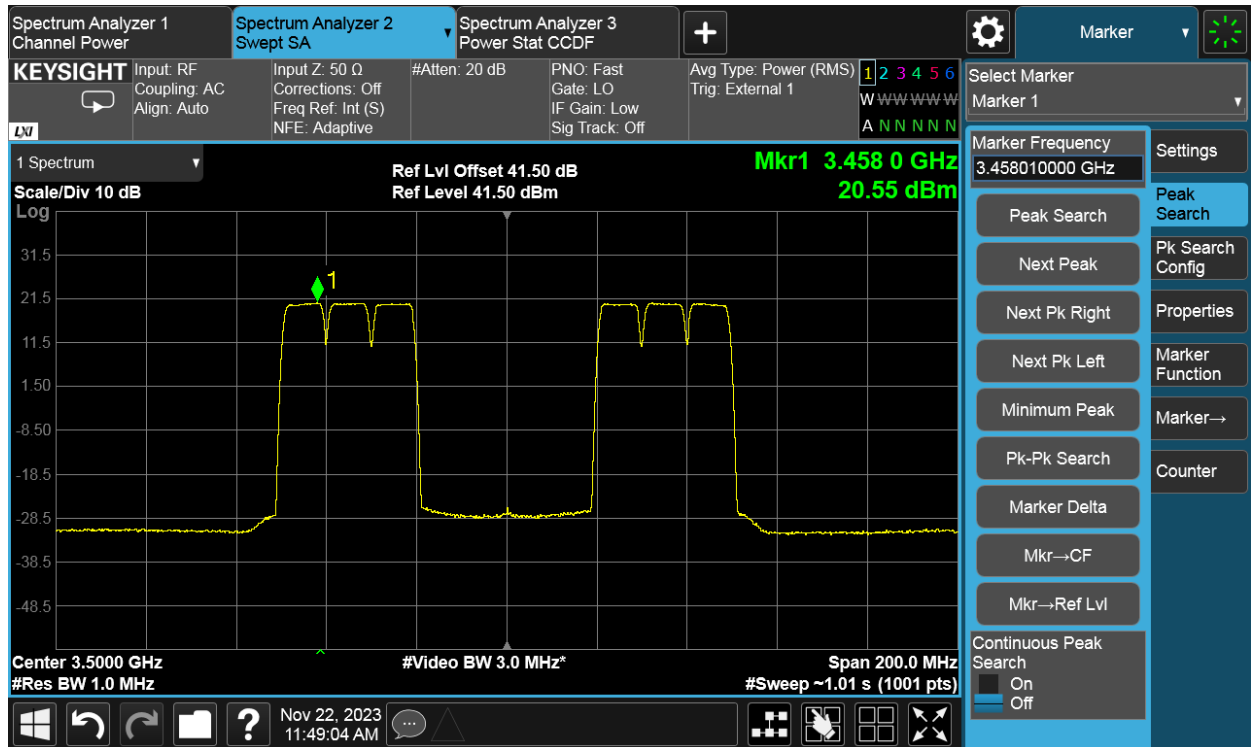
NR-2C, 10MHz, Channel M, Power



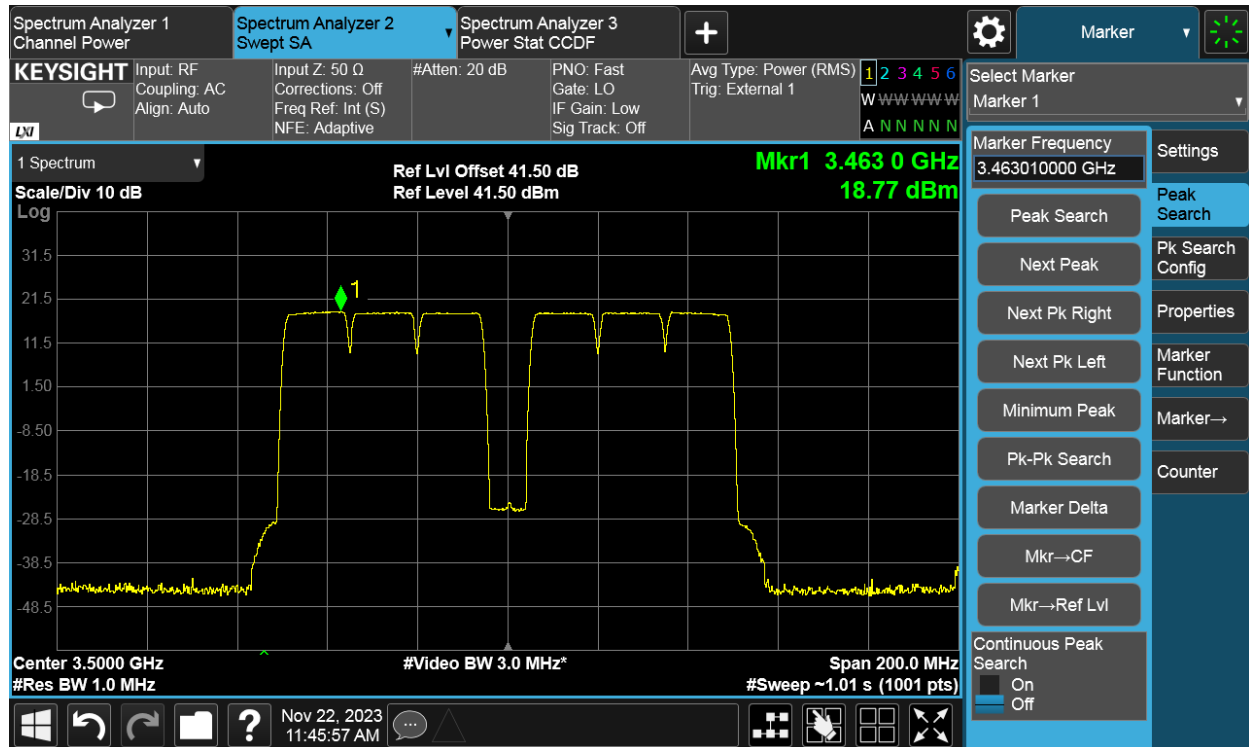
NR-2C, 15MHz, Channel M, Power



NR-6C, 10MHz, Channel M, Power



NR-6C, 15MHz, Channel M, Power



TEST REPORT**4 Occupied Bandwidth****Test result: Pass****4.1 Measurement Procedure**

The EUT was set to transmit at maximum power and testing was carried out on bottom, middle and top channels. Using the Occupied Bandwidth measurement function in the spectrum analyzer, the 26dB bandwidth was measured in accordance with FCC KDB 971168 D01 Clause 4.2.

The measurement method is from KDB 971168 4.2:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the OBW).
- b) The nominal IF filter bandwidth (3 dB 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.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least $10\log(\text{OBW} / \text{RBW})$ below the reference level.
- d) Set the detection mode to peak, and the trace mode to max hold.
- e) Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

TEST REPORT

4.2 Measurement result

NR-1C

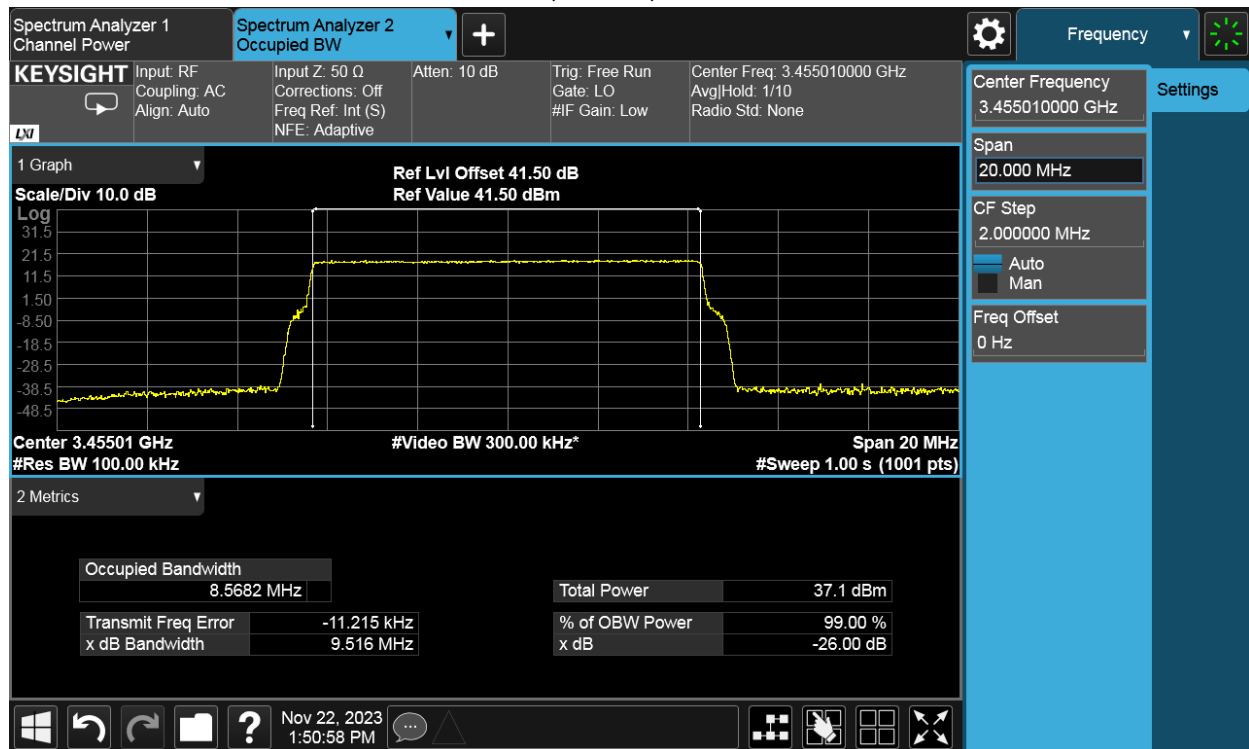
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
D	256QAM	10MHz	8.5682	8.5695	8.5675
D	256QAM	15MHz	13.555	13.560	13.556

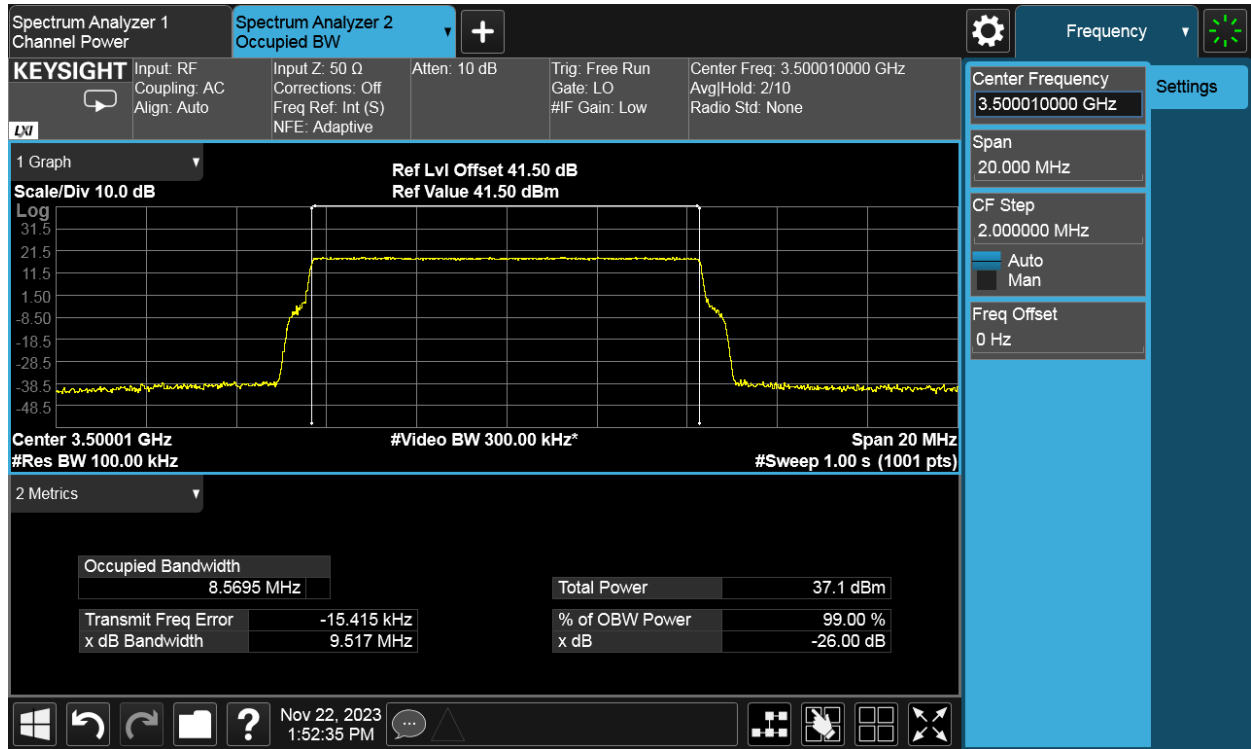
-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
D	256QAM	10MHz	9.516	9.517	9.462
D	256QAM	15MHz	14.39	14.39	14.37

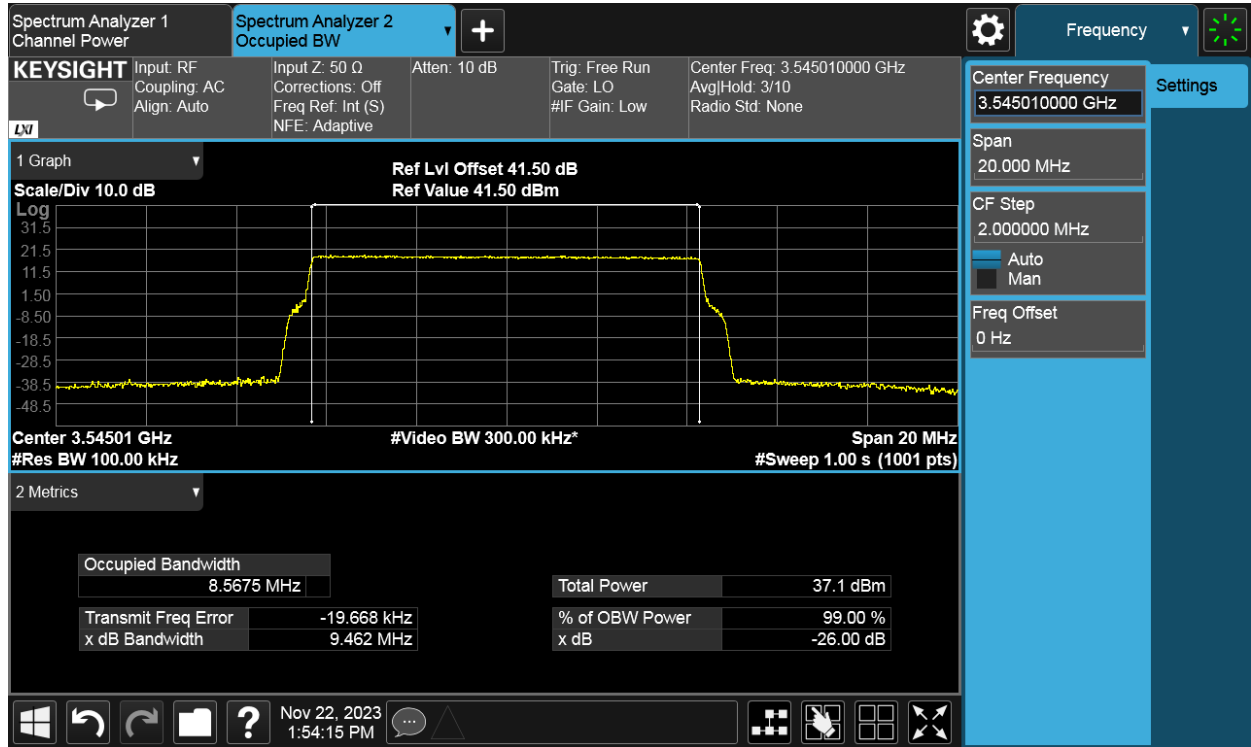
NR-1C, 10MHz, Channel B



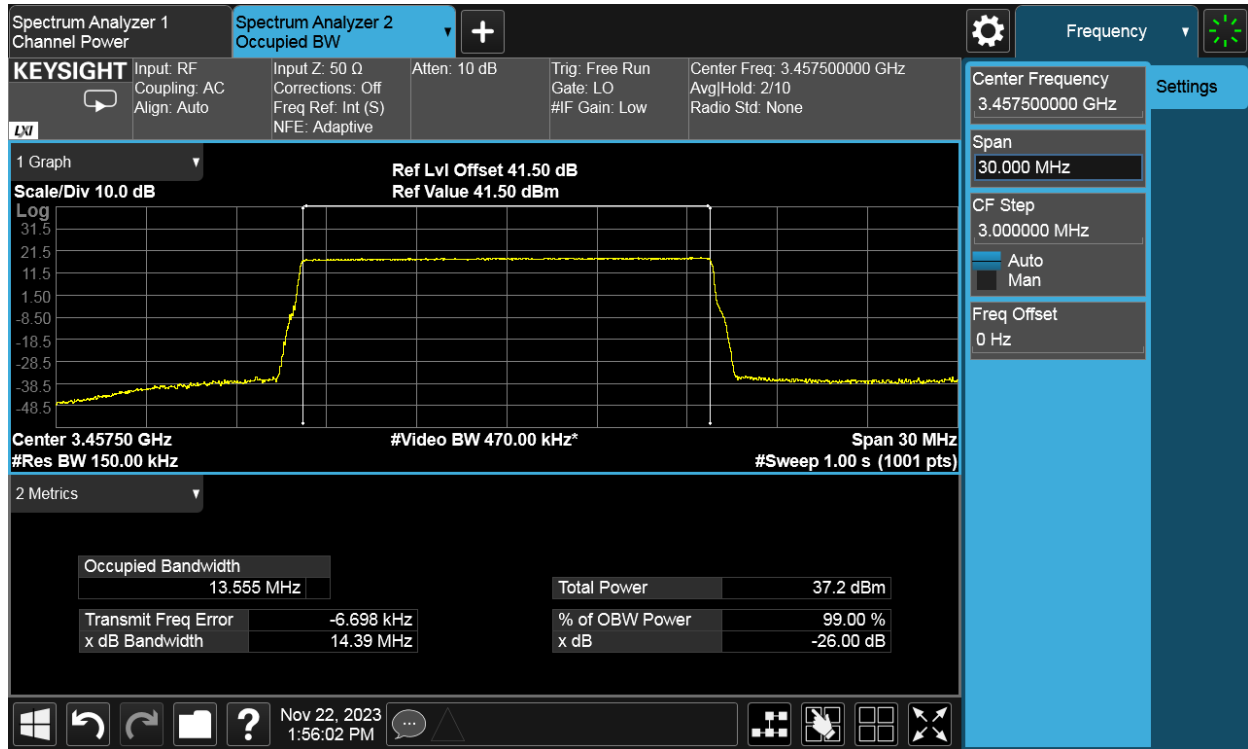
NR-1C, 10MHz, Channel M



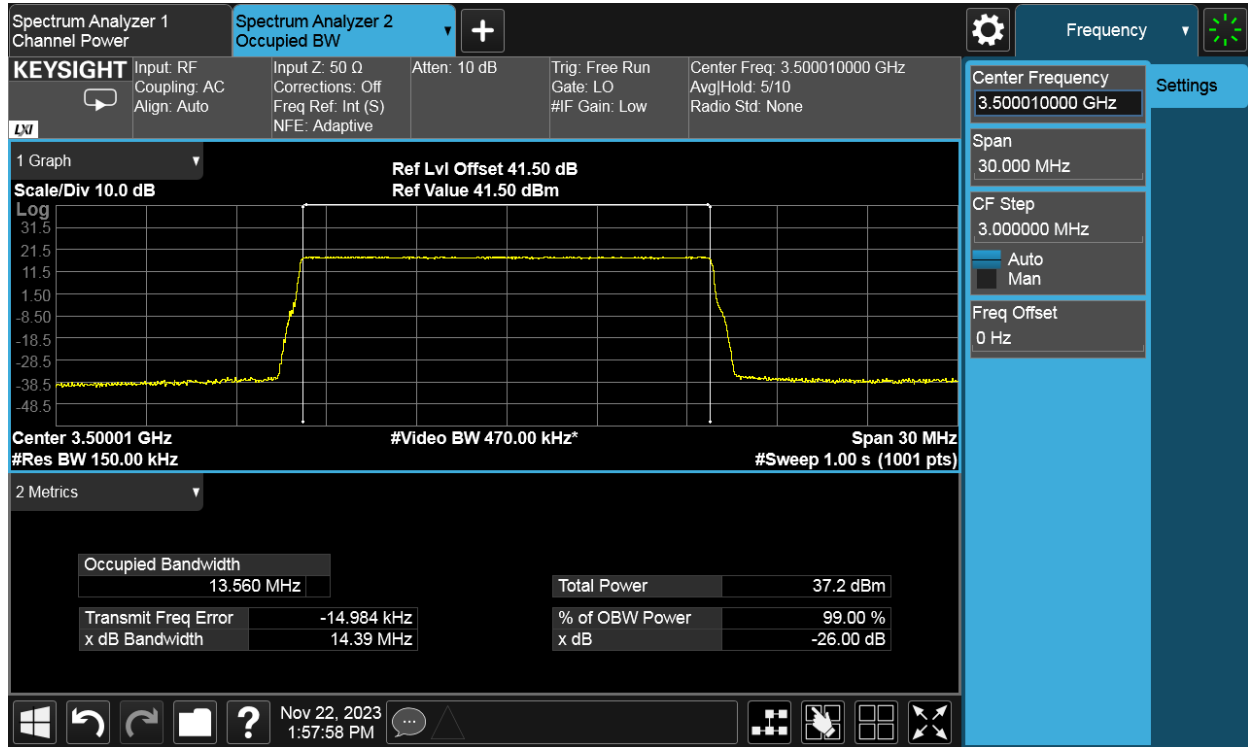
NR-1C, 10MHz, Channel T



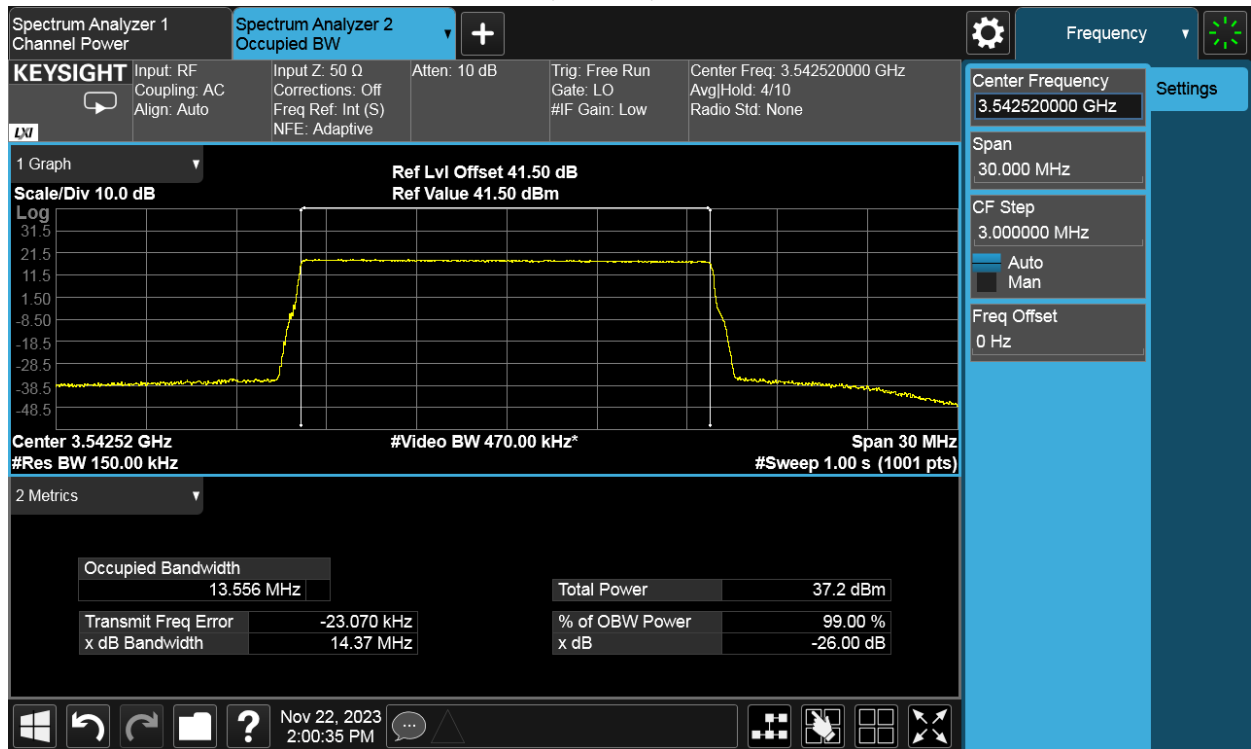
NR-1C, 15MHz, Channel B



NR-1C, 15MHz, Channel M



NR-1C, 15MHz, Channel T



5 Unwanted Emissions at Band Edge

Test result: Pass

5.1 Limit

For base station operations in the 3450–3550 MHz band, the conducted power of any emission outside the licensee’s authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with the provisions of this paragraph (n)(1) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee’s frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. Notwithstanding the channel edge requirement of -13 dBm per megahertz, for base station operations in the 3450–3550 MHz band, the conducted power of any emission below 3440 MHz or above 3560 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3430 MHz or above 3570 MHz shall not exceed -40 dBm/MHz.

5.2 Measurement Procedure

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

For MIMO mode configurations, the limit was adjusted with a correction of -6.02dB [$10\log(1/4)$] by using the Measure and Add $10\log(N)$ dB technique according to KDB 662911 D01 Multiple Transmitter Output accounting for simultaneous transmission from antenna ports . Then the limit was adjusted to -19.02/-31.02dBm.

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed and a RBW of 1MHz for measurements of emissions > 1MHz away from the band edges.

Spectrum analyzer detector was set as RMS.

5.3 Measurement result

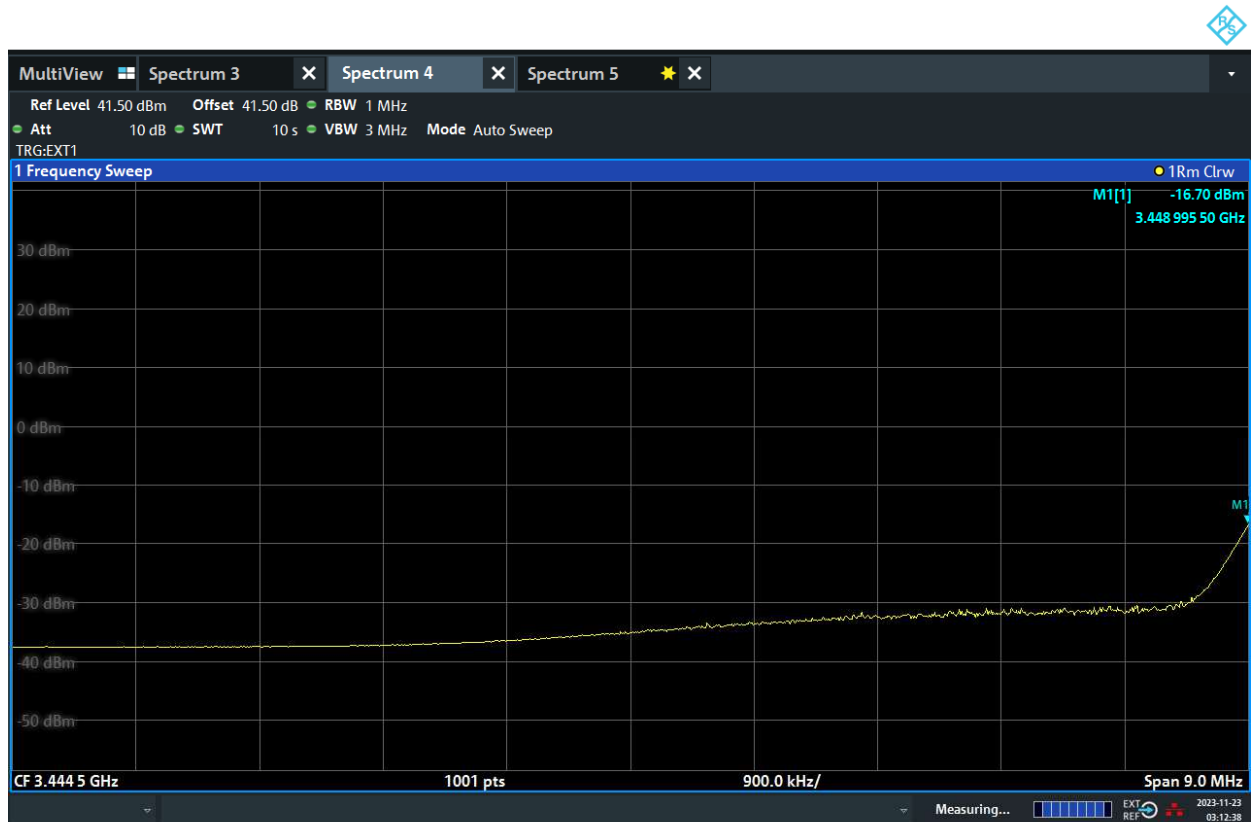
NR-1C-UE

Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
D	B	256QAM	10	100	-19.02
				1000	-31.02
D	T	256QAM	10	100	-19.02
				1000	-31.02

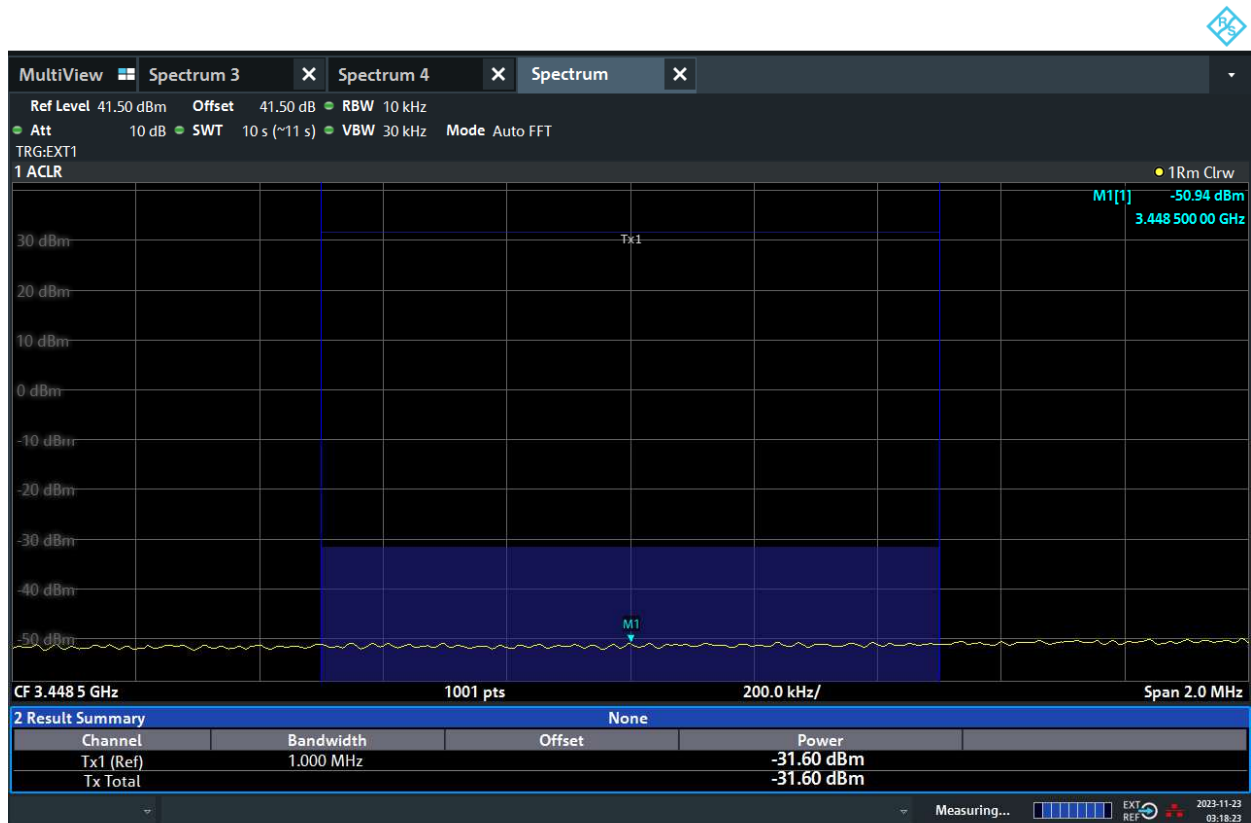
Channel Position B



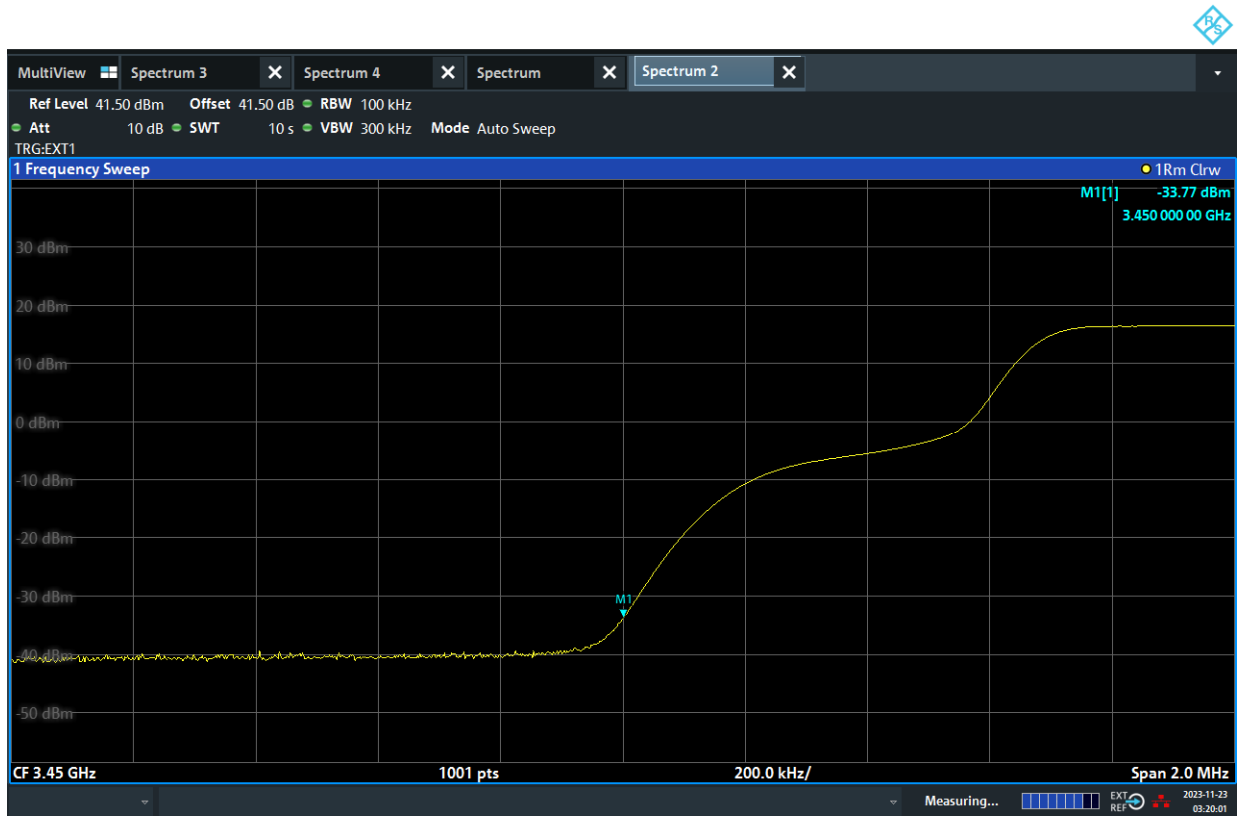
03:12:01 AM 11/23/2023



03:12:38 AM 11/23/2023

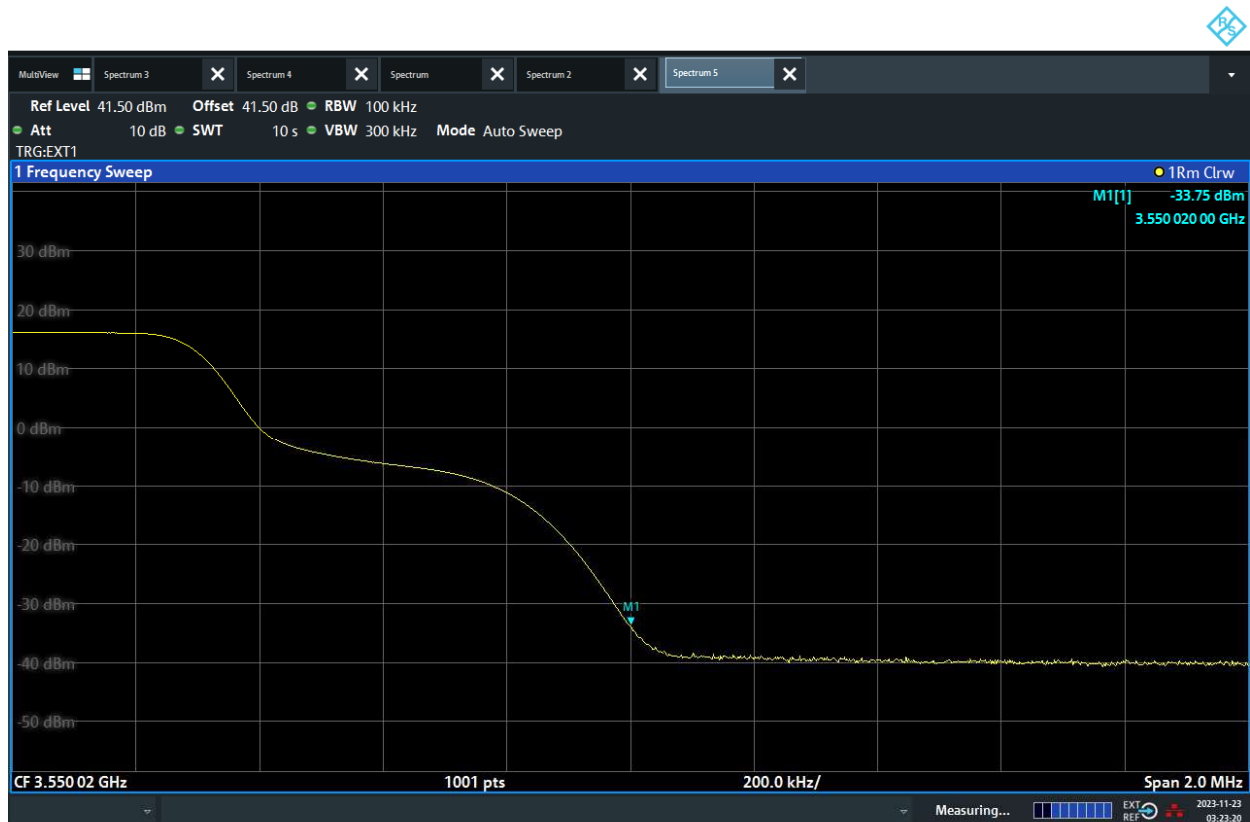


03:18:24 AM 11/23/2023

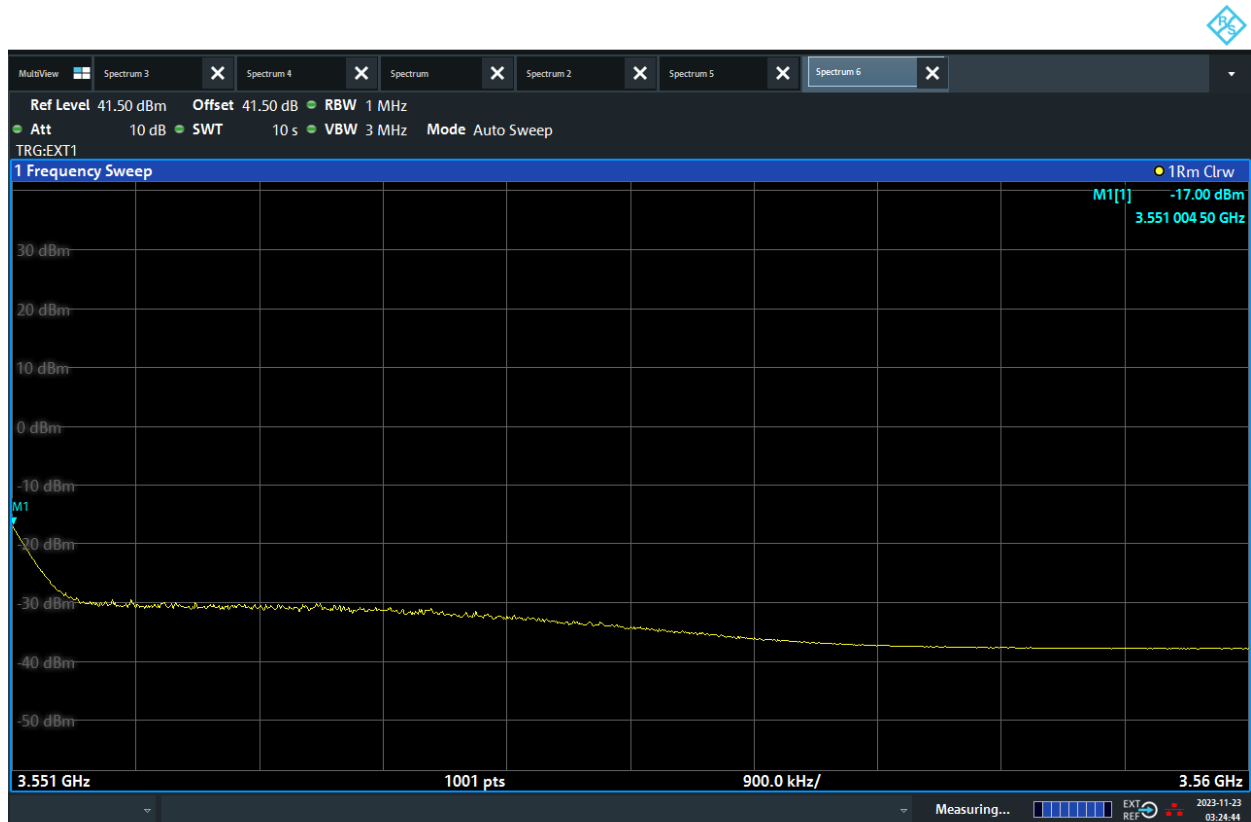


03:20:02 AM 11/23/2023

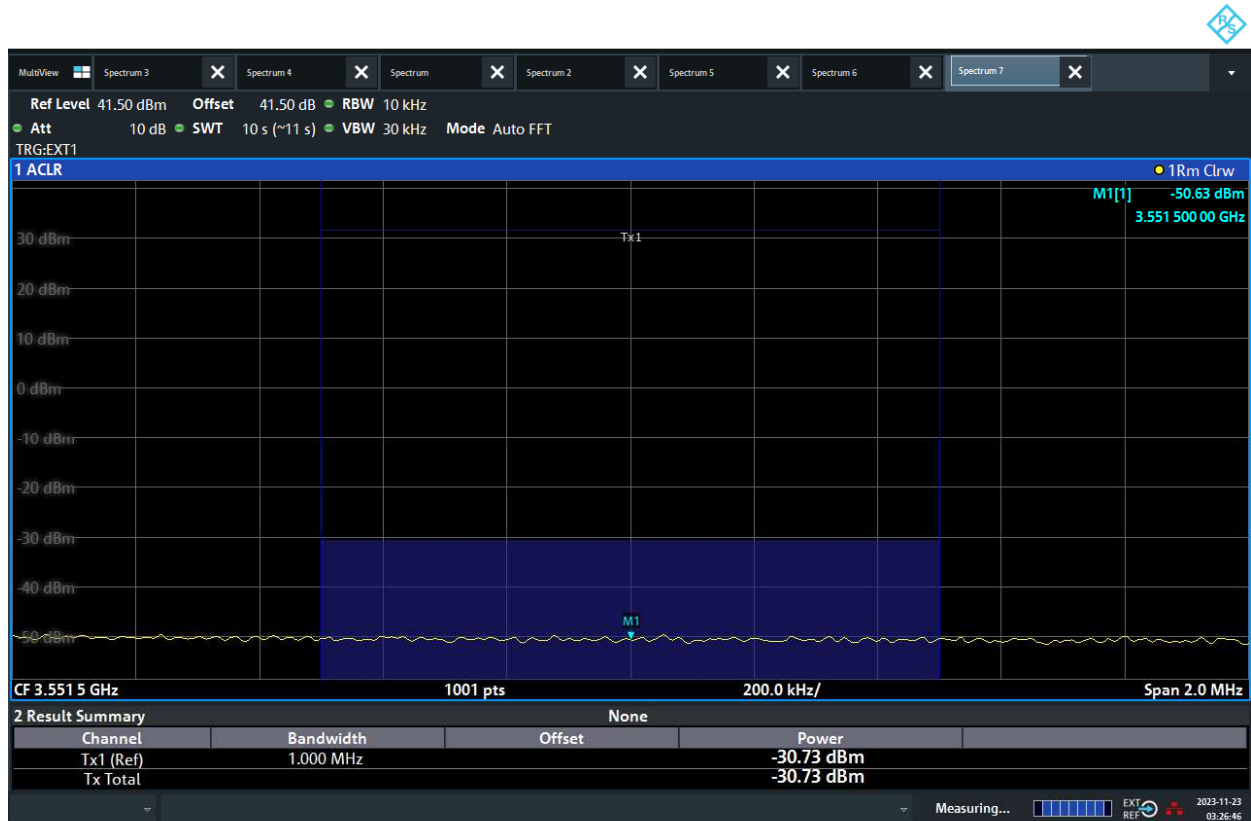
Channel Position T



03:23:21 AM 11/23/2023



03:24:45 AM 11/23/2023



03:26:47 AM 11/23/2023



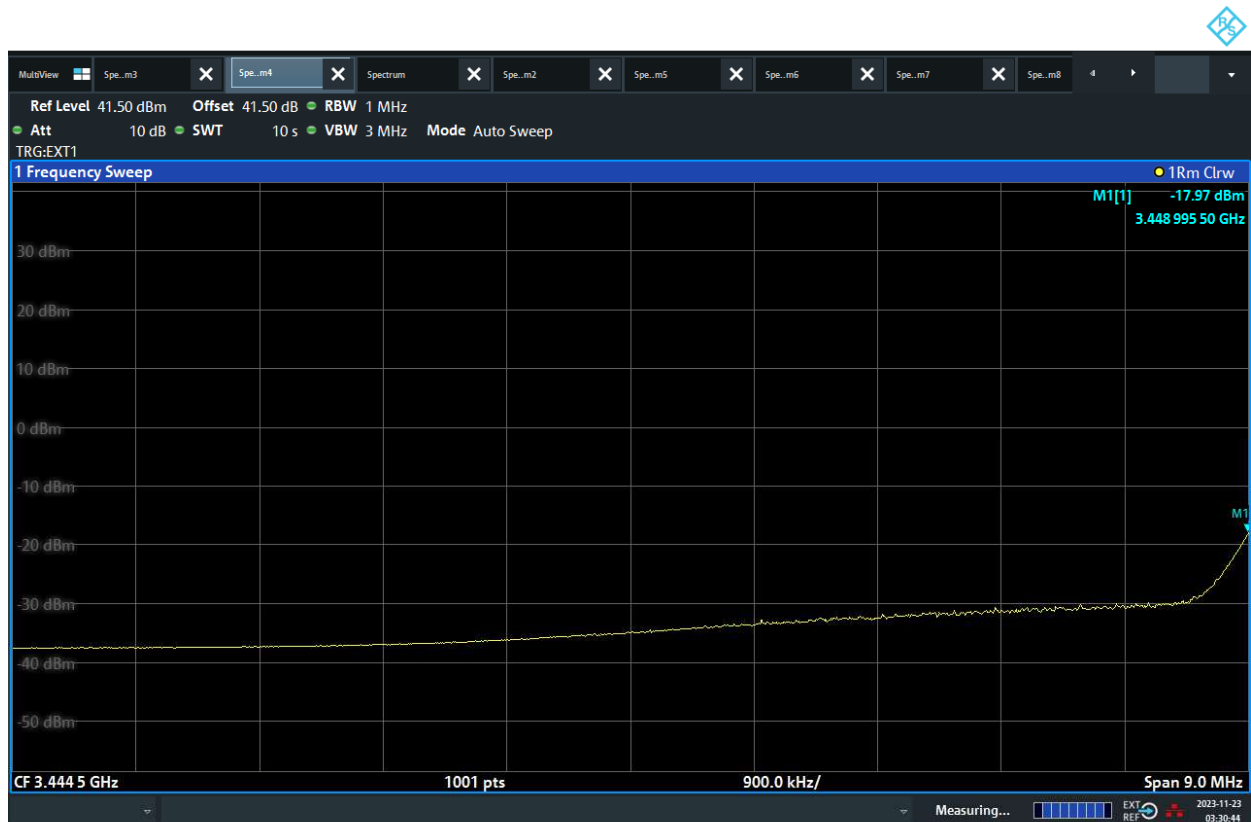
03:28:16 AM 11/23/2023

Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
D	B	256QAM	15	200	-19.02
				1000	-31.02
D	T	256QAM	15	200	-19.02
				1000	-31.02

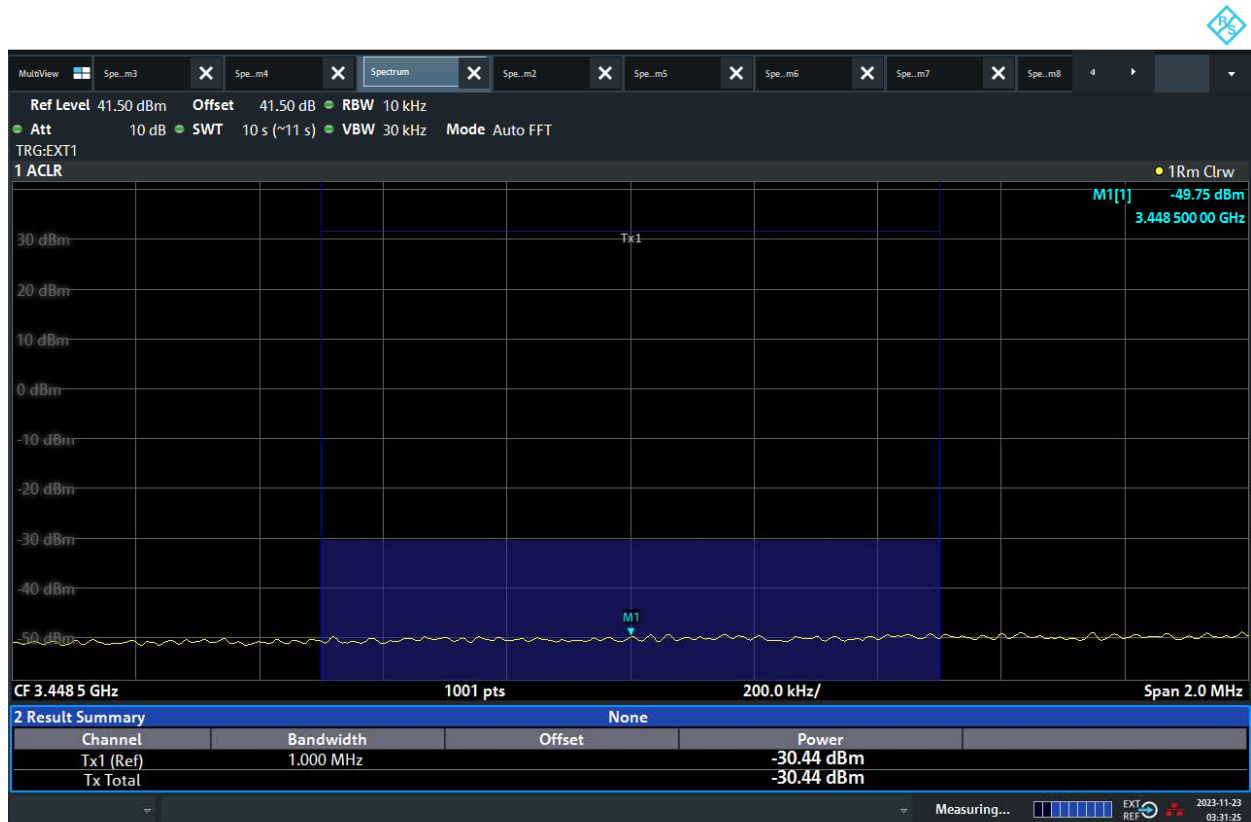
Channel Position B



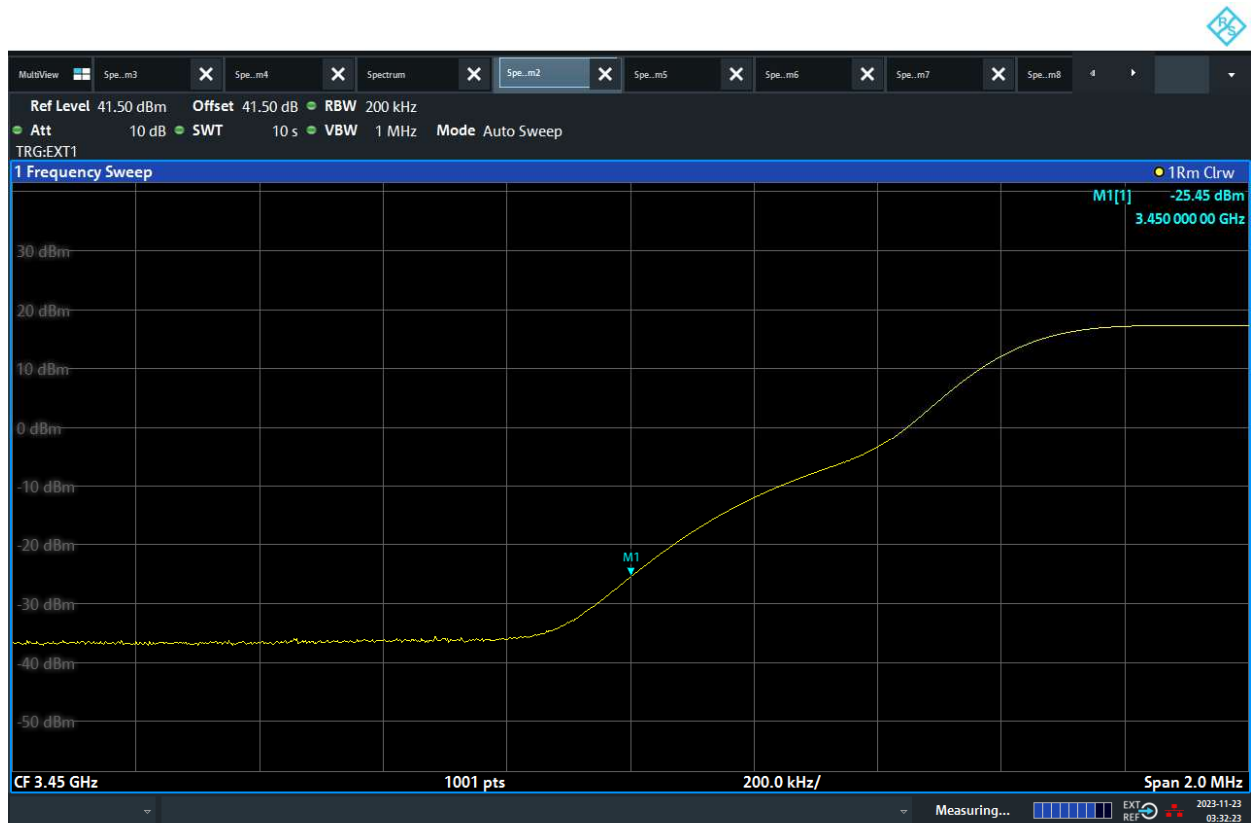
03:30:17 AM 11/23/2023



03:30:45 AM 11/23/2023

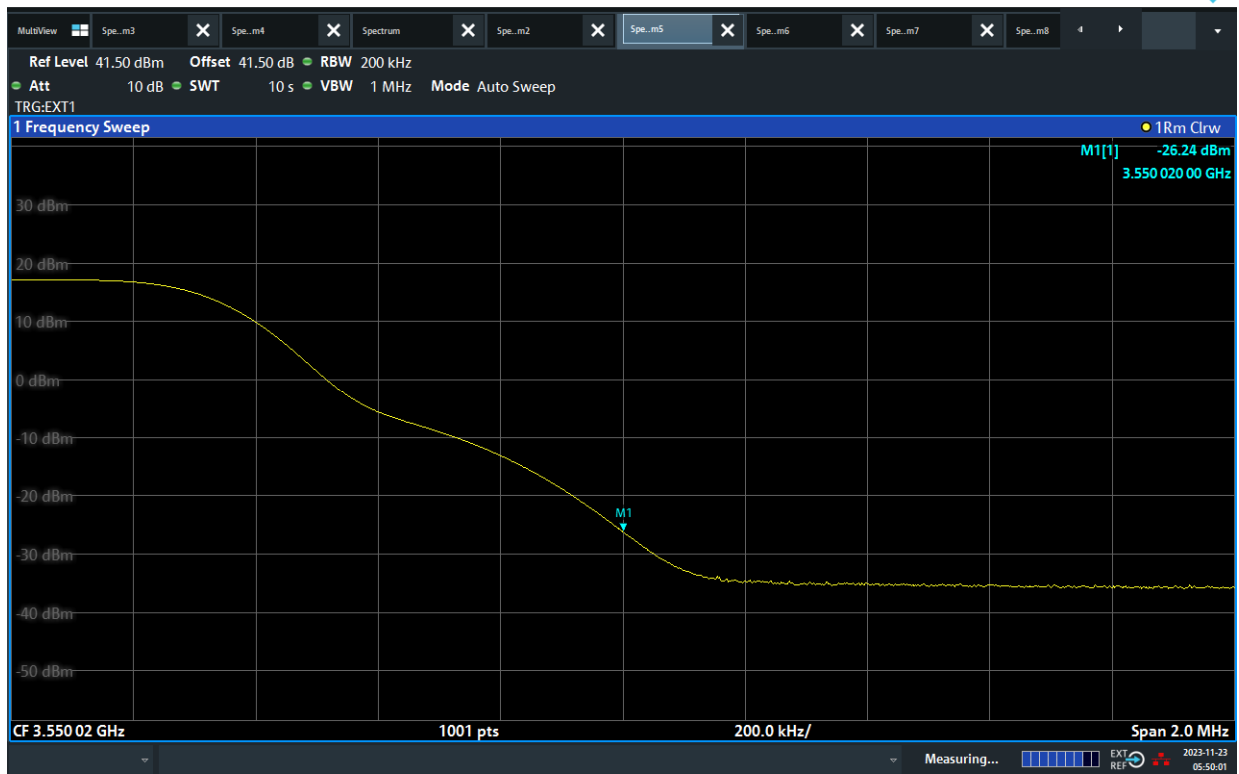


03:31:26 AM 11/23/2023

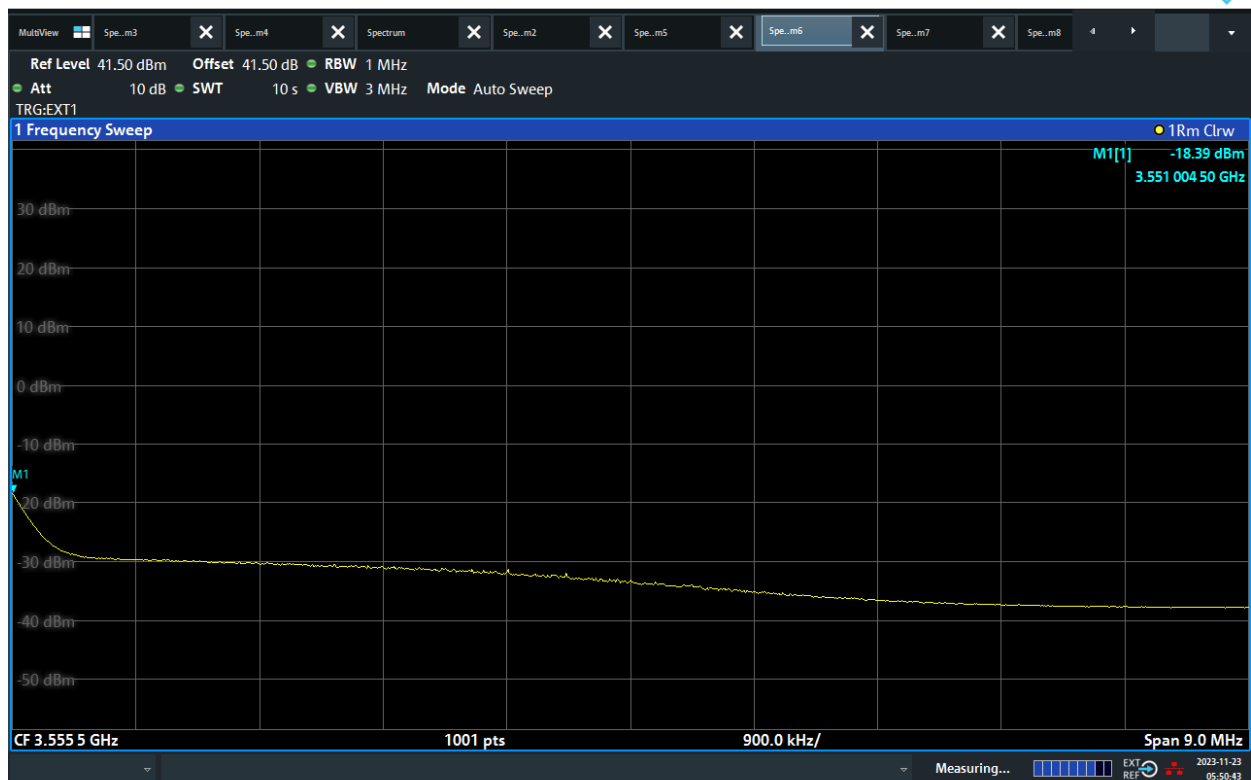


03:32:23 AM 11/23/2023

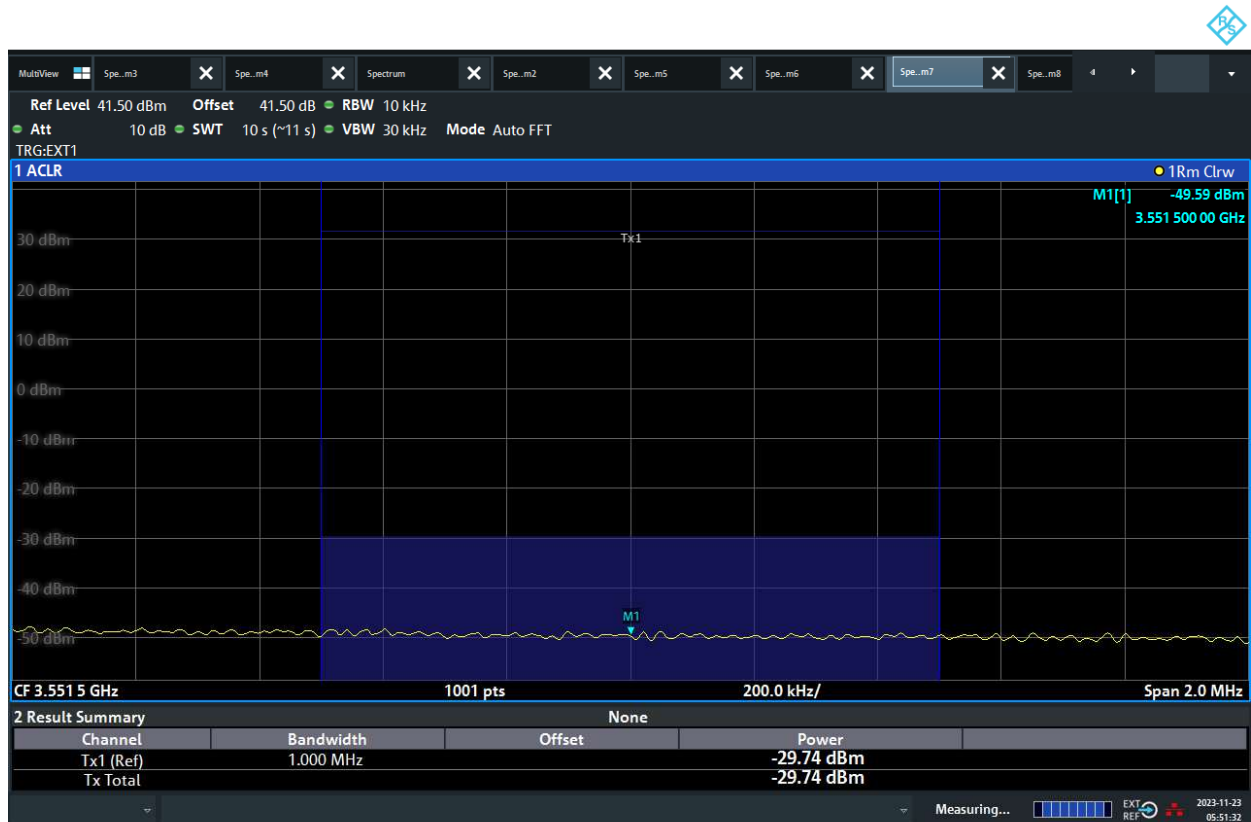
Channel Position T



05:50:01 AM 11/23/2023



05:50:44 AM 11/23/2023



05:51:32 AM 11/23/2023



06:05:40 AM 11/23/2023

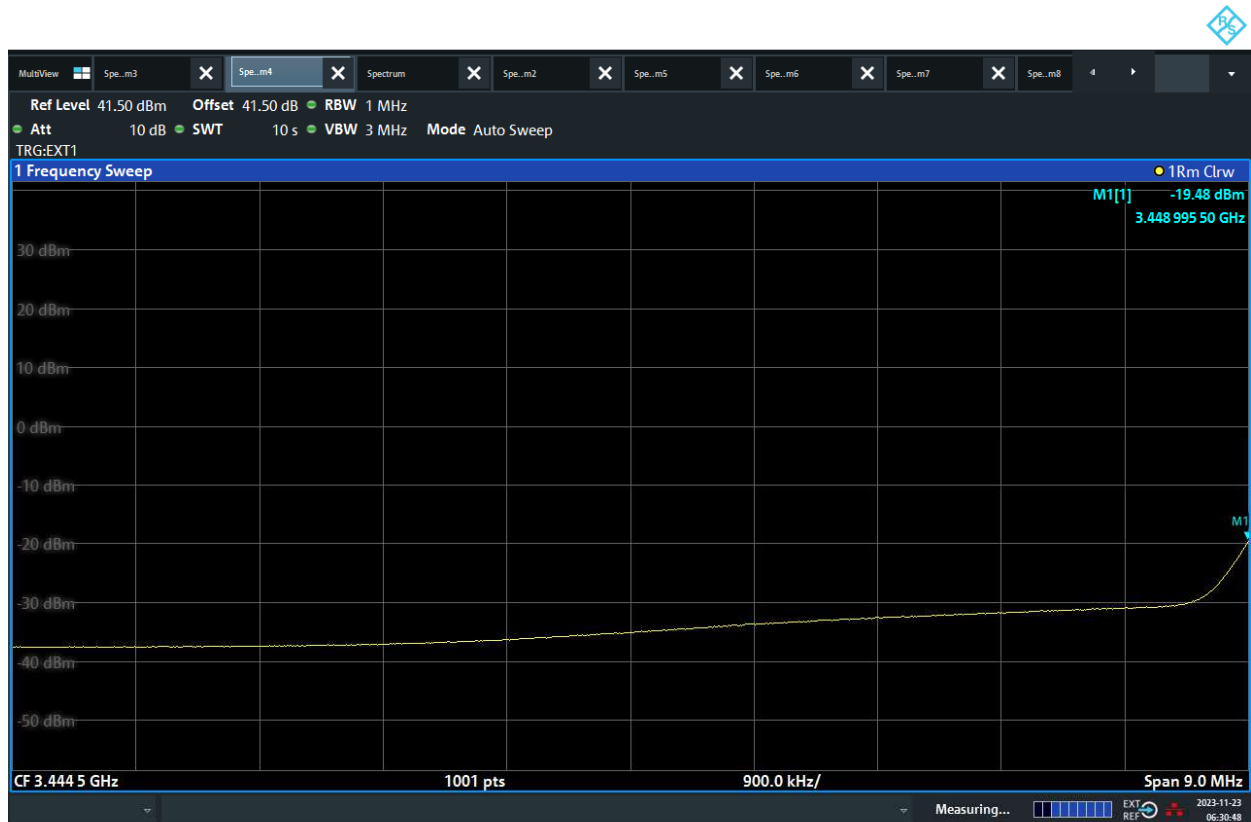
NR-2C-UE

Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
D	B	256QAM	10	100	-19.02
				1000	-31.02
D	T	256QAM	10	100	-19.02
				1000	-31.02

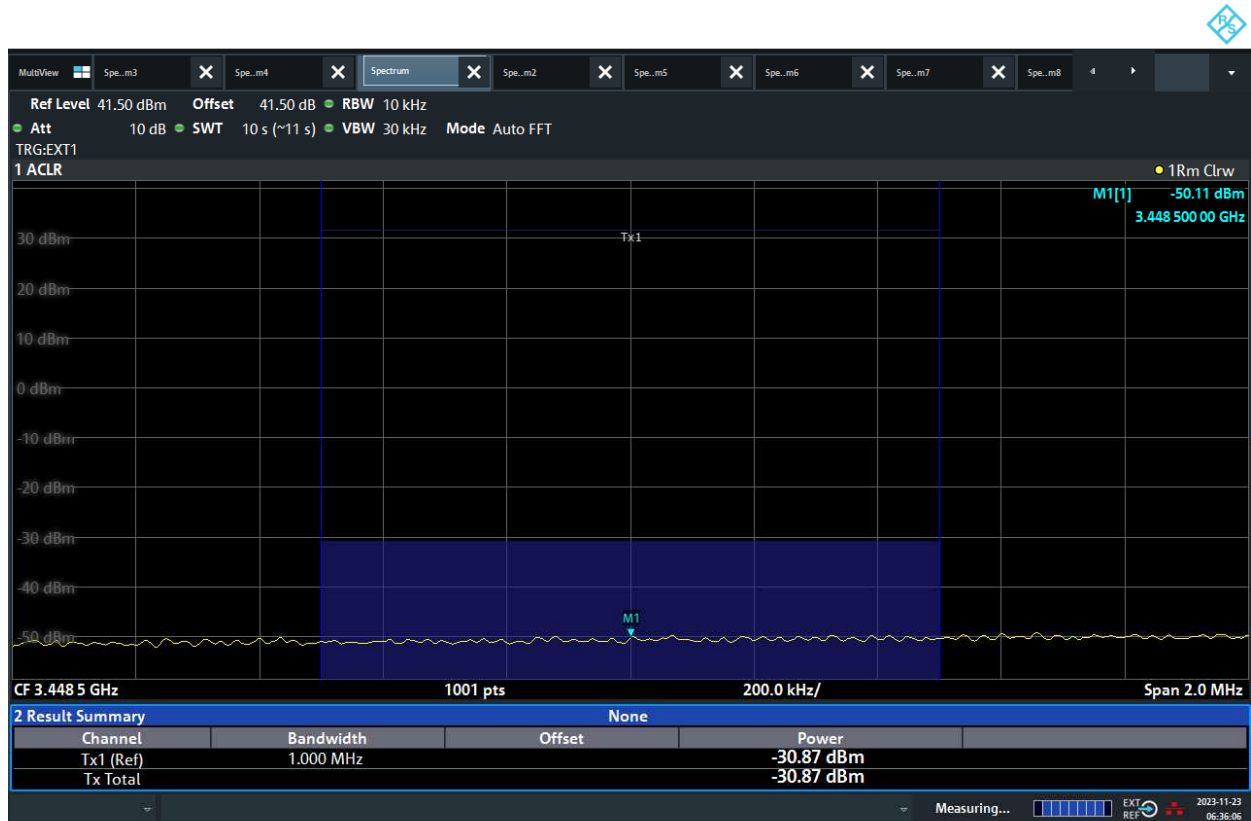
Channel Position B



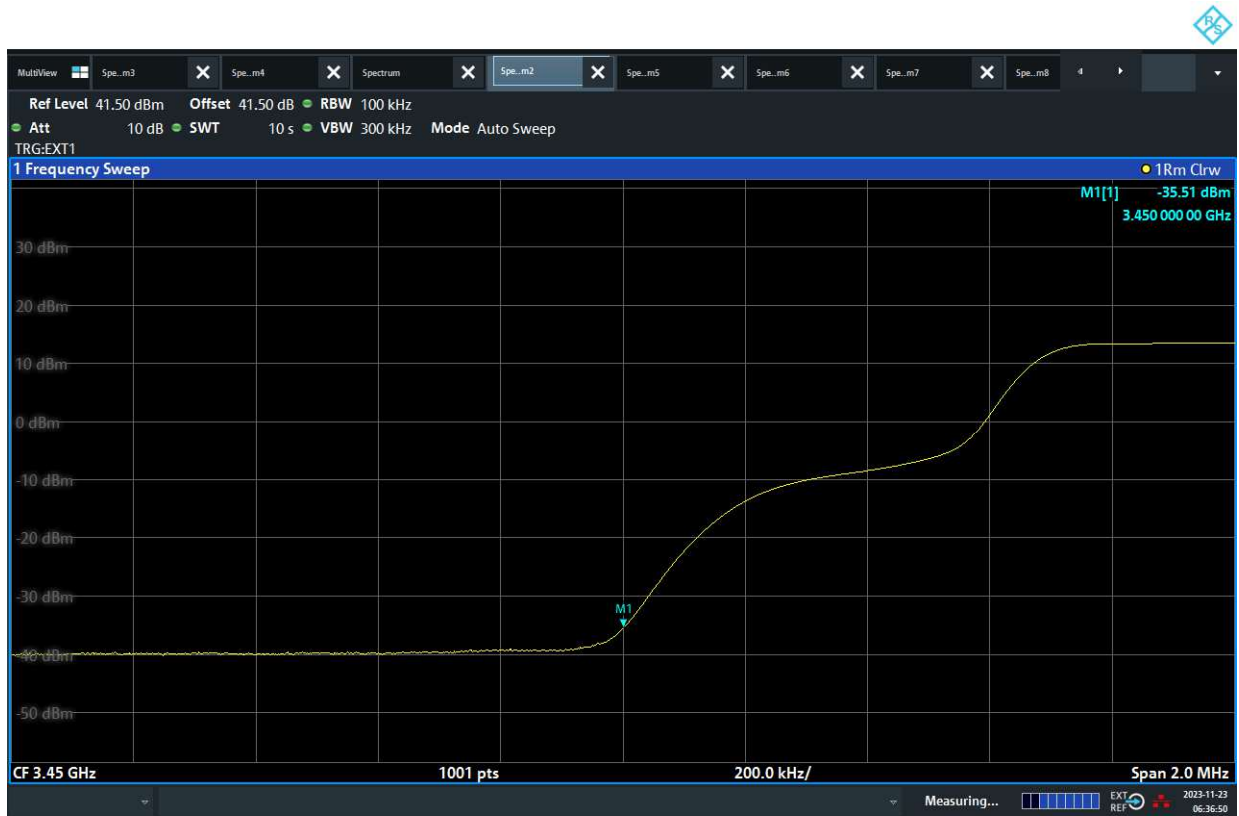
06:30:13 AM 11/23/2023



06:30:49 AM 11/23/2023

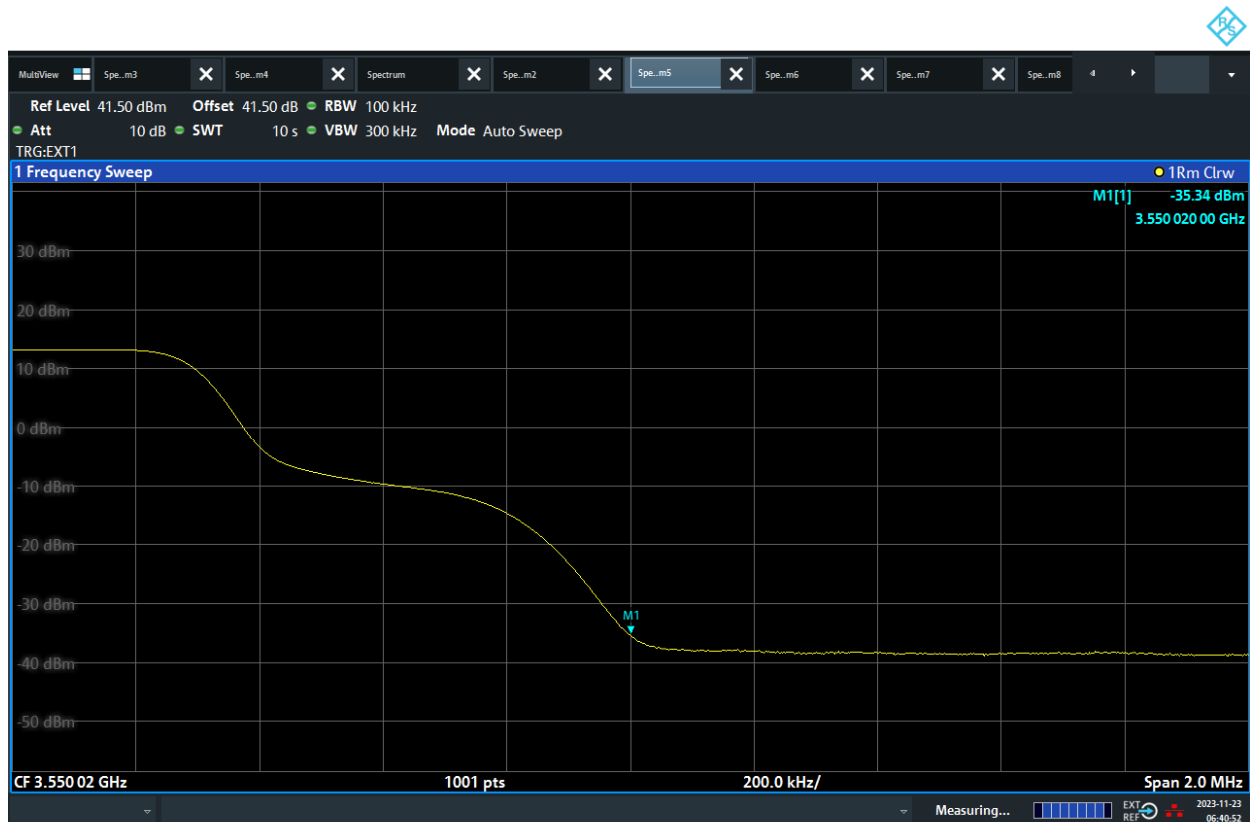


06:36:07 AM 11/23/2023

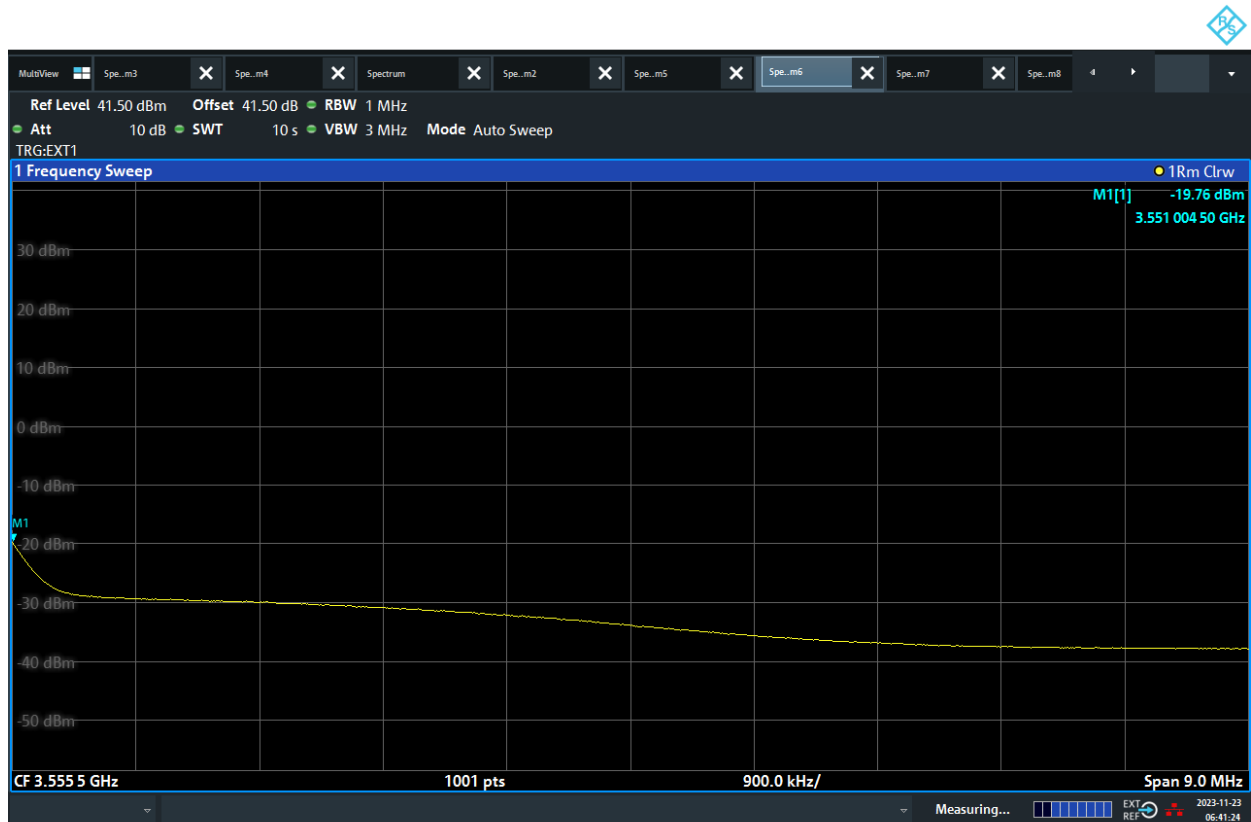


06:36:50 AM 11/23/2023

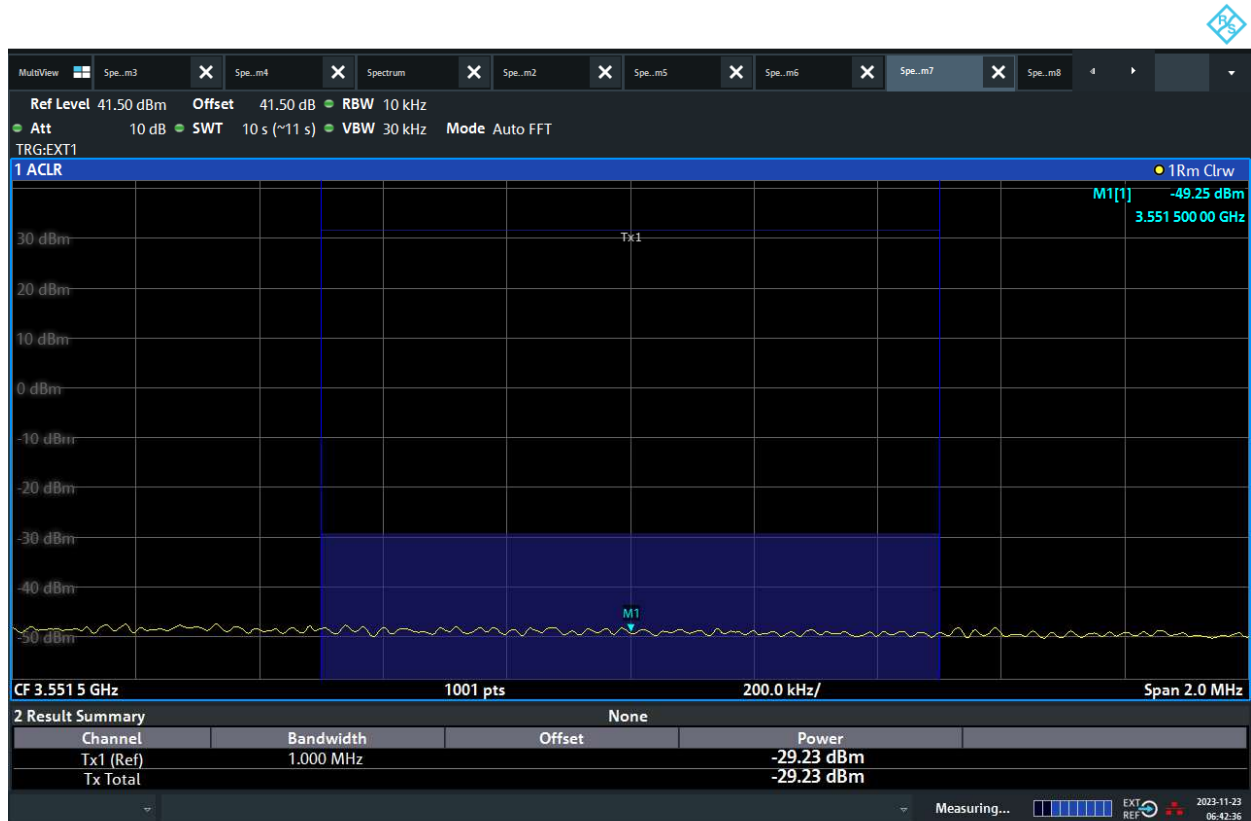
Channel Position T



06:40:52 AM 11/23/2023



06:41:25 AM 11/23/2023



06:42:36 AM 11/23/2023



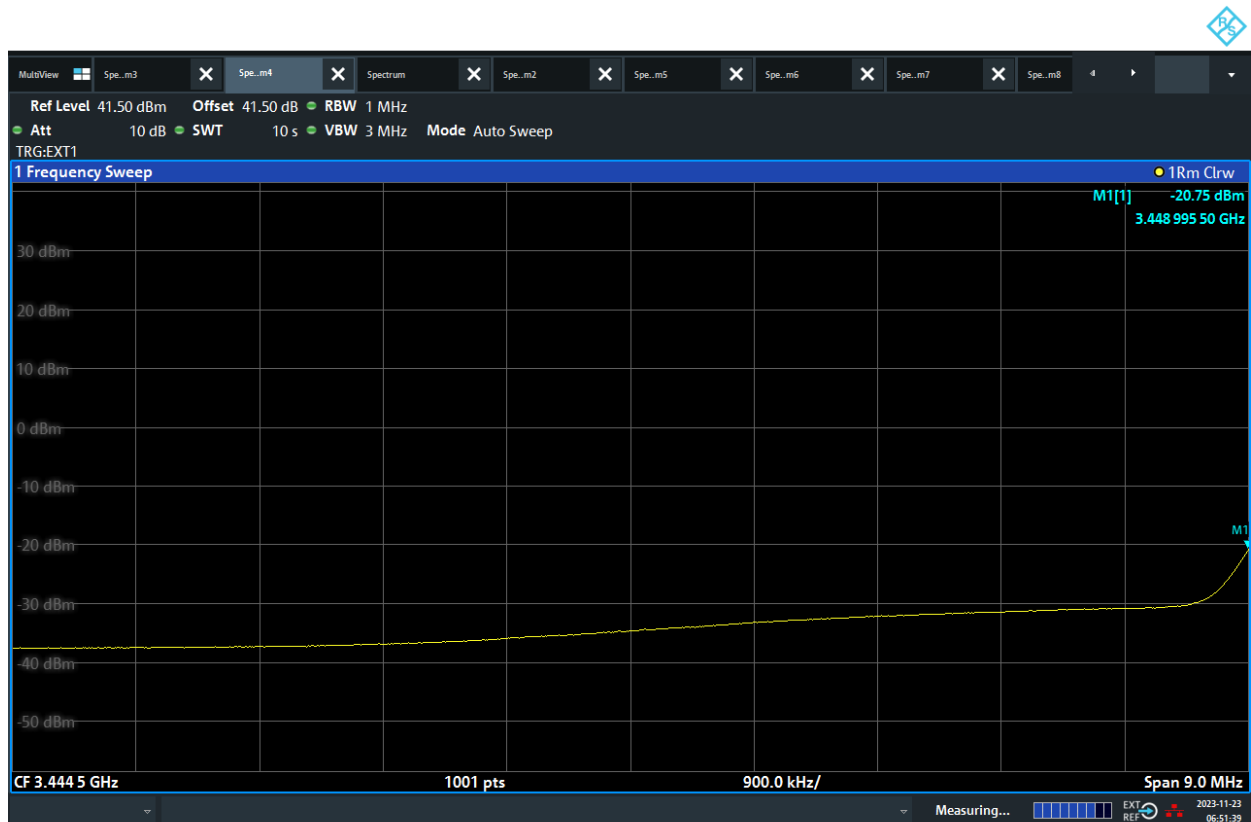
06:46:39 AM 11/23/2023

Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
D	B	256QAM	15	200	-19.02
				1000	-31.02
D	T	256QAM	15	200	-19.02
				1000	-31.02

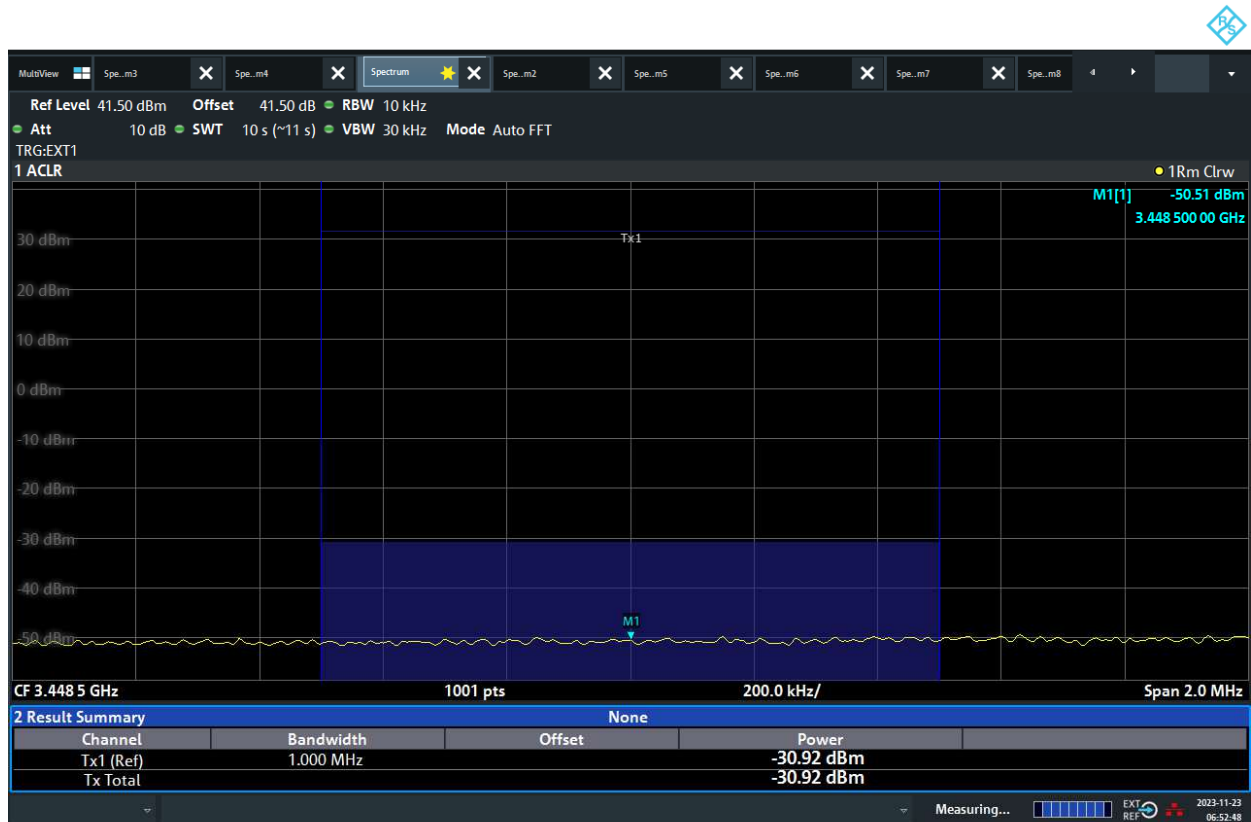
Channel Position B



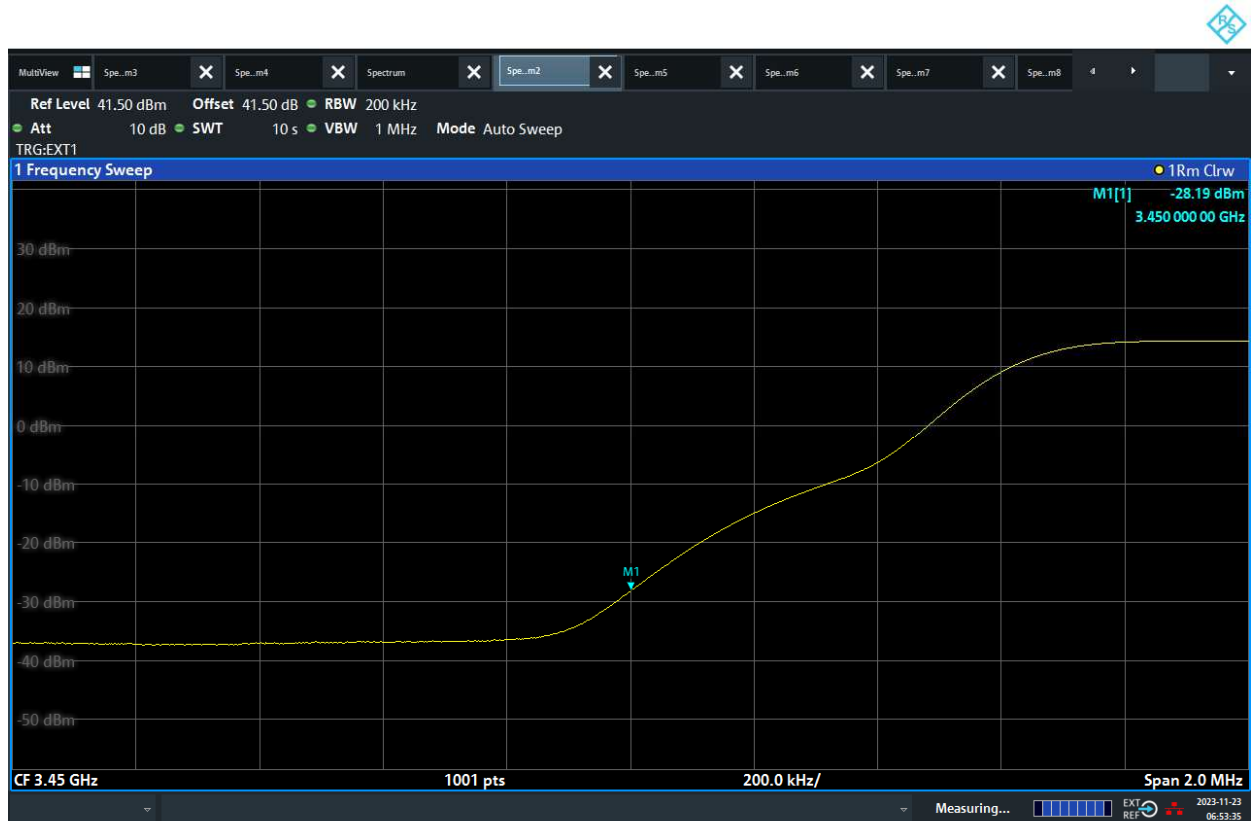
06:51:04 AM 11/23/2023



06:51:40 AM 11/23/2023

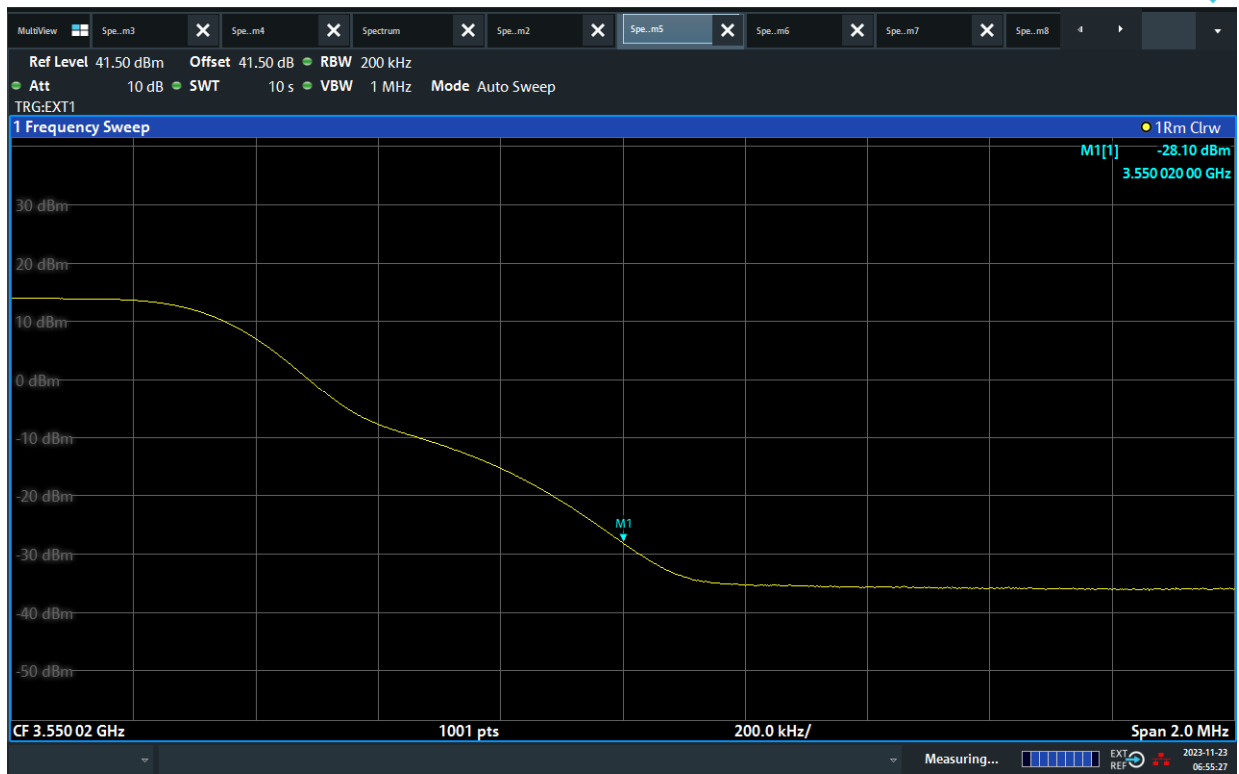


06:52:48 AM 11/23/2023

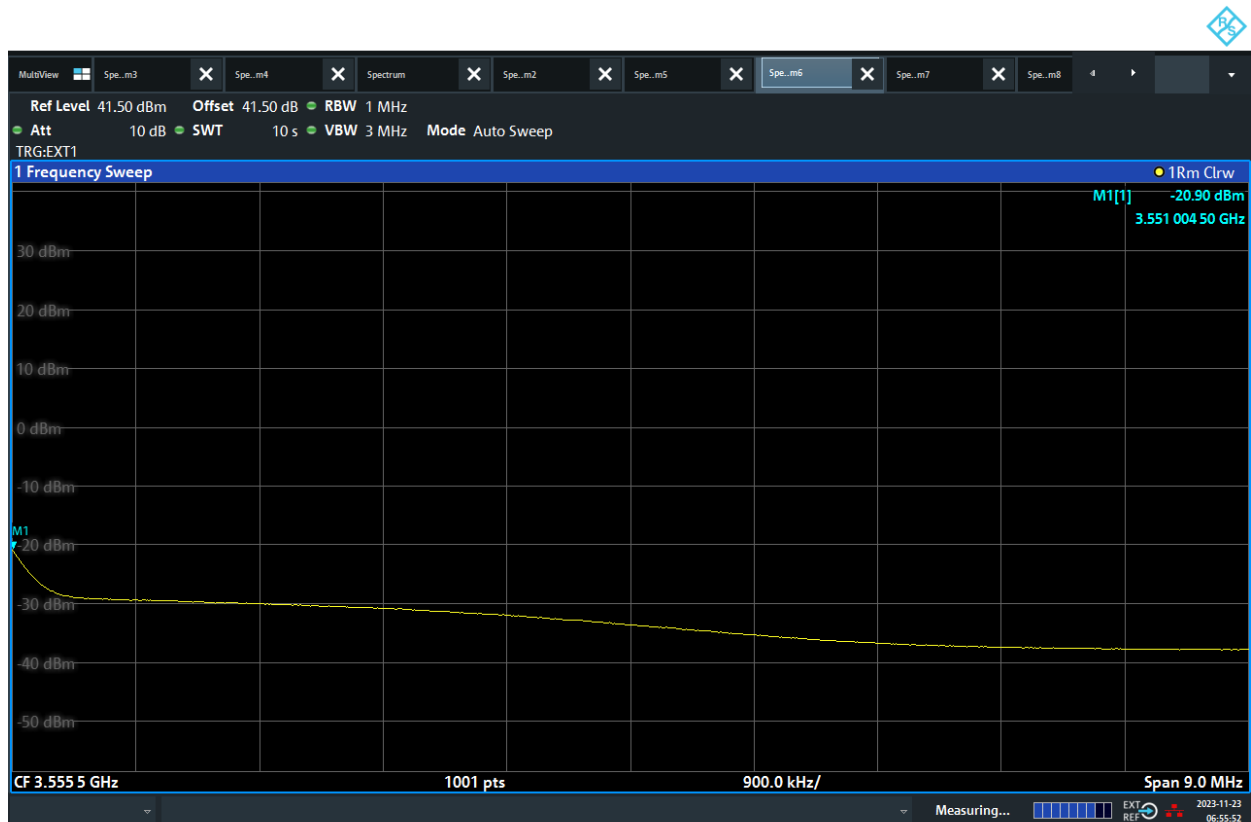


06:53:36 AM 11/23/2023

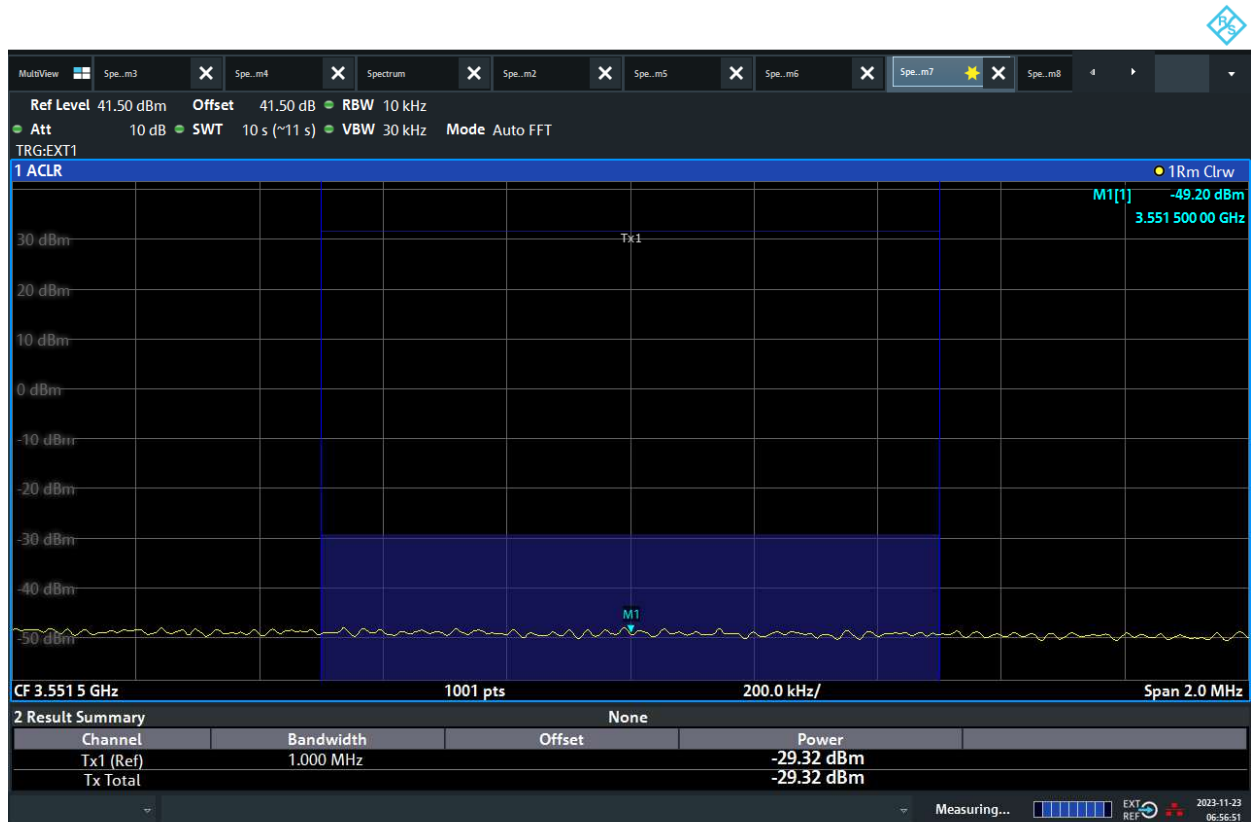
Channel Position T



06:55:27 AM 11/23/2023



06:55:53 AM 11/23/2023



06:56:51 AM 11/23/2023



06:57:21 AM 11/23/2023

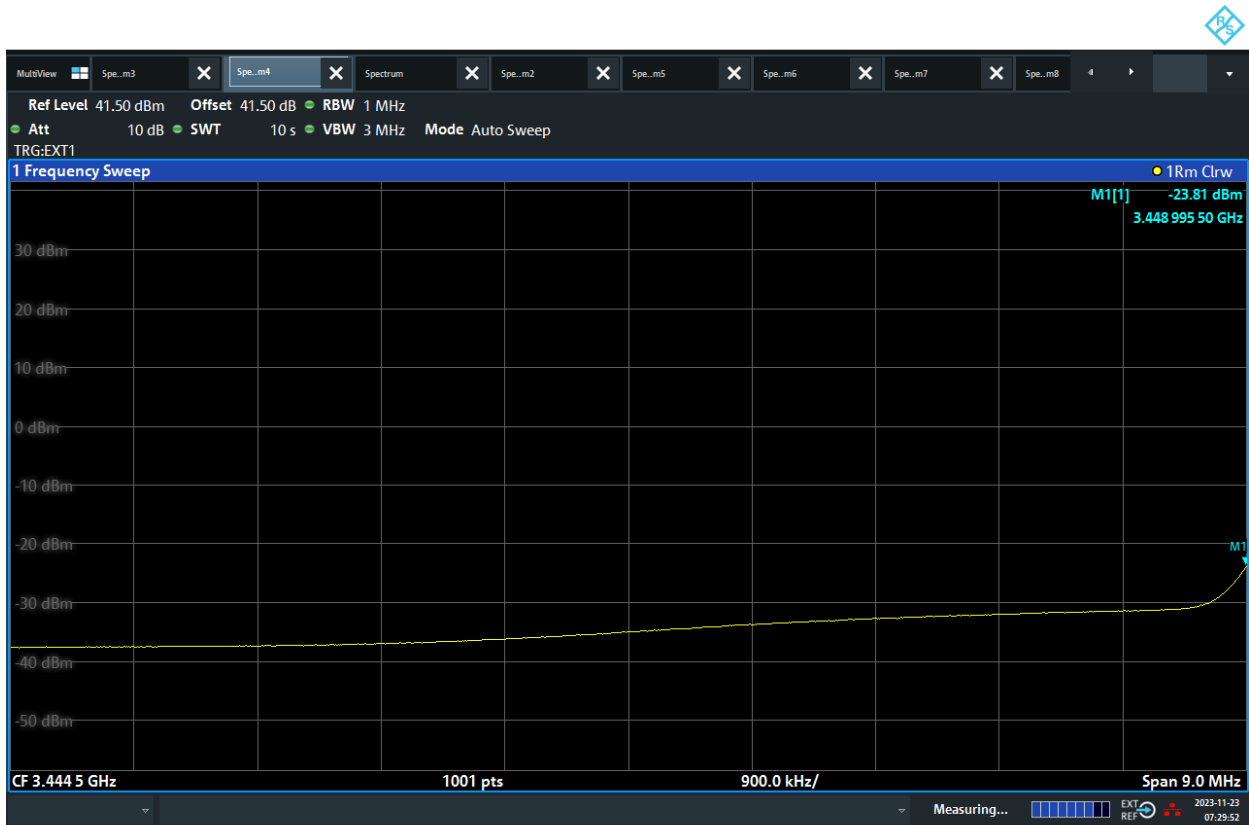
NR-6C-UE

Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
D	B	256QAM	10	100	-19.02
				1000	-31.02
D	T	256QAM	10	100	-19.02
				1000	-31.02

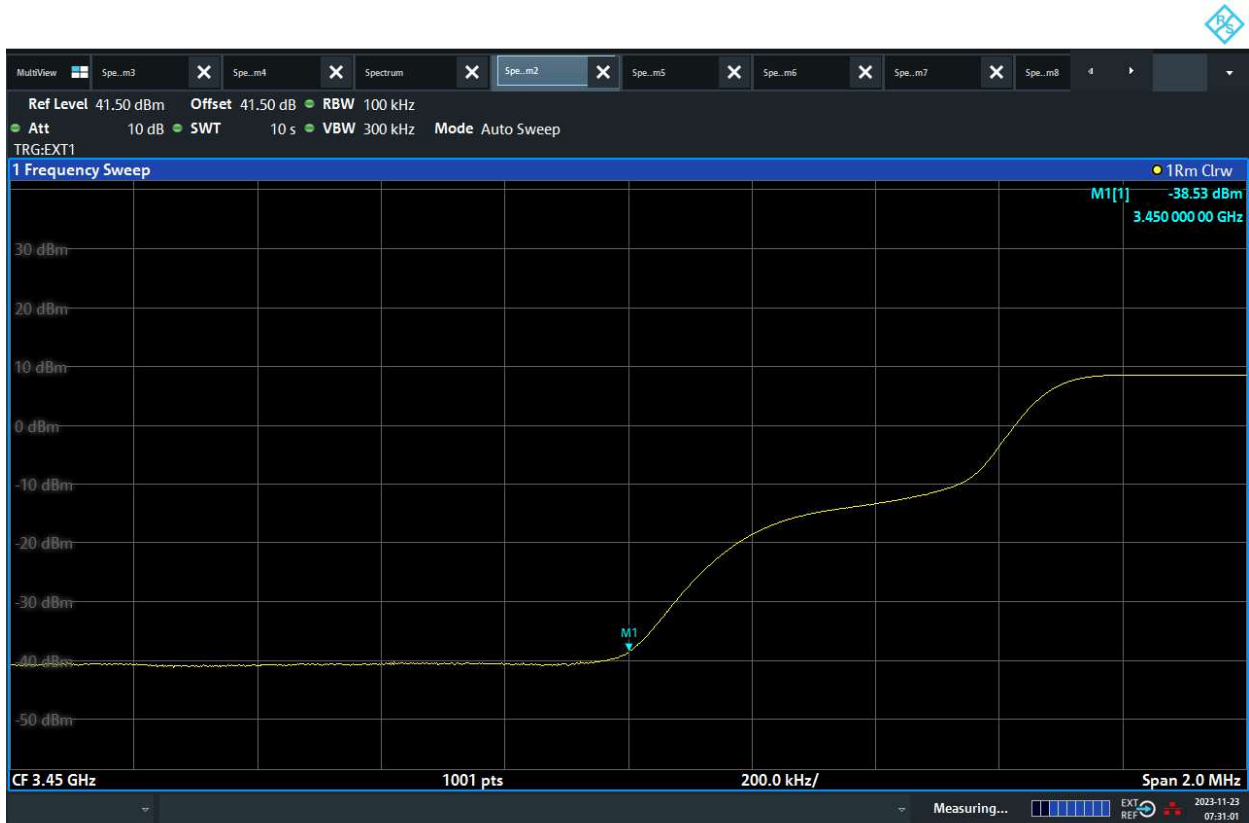
Channel Position B



07:29:18 AM 11/23/2023

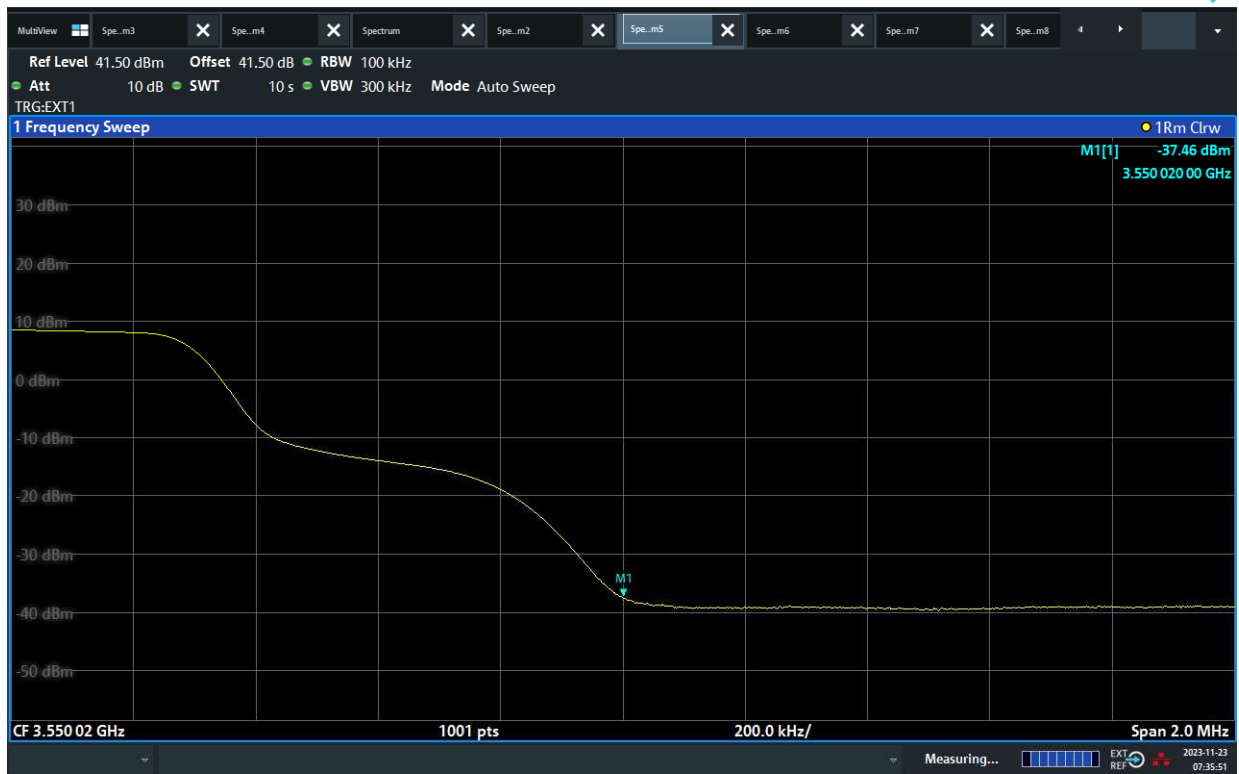


07:29:52 AM 11/23/2023

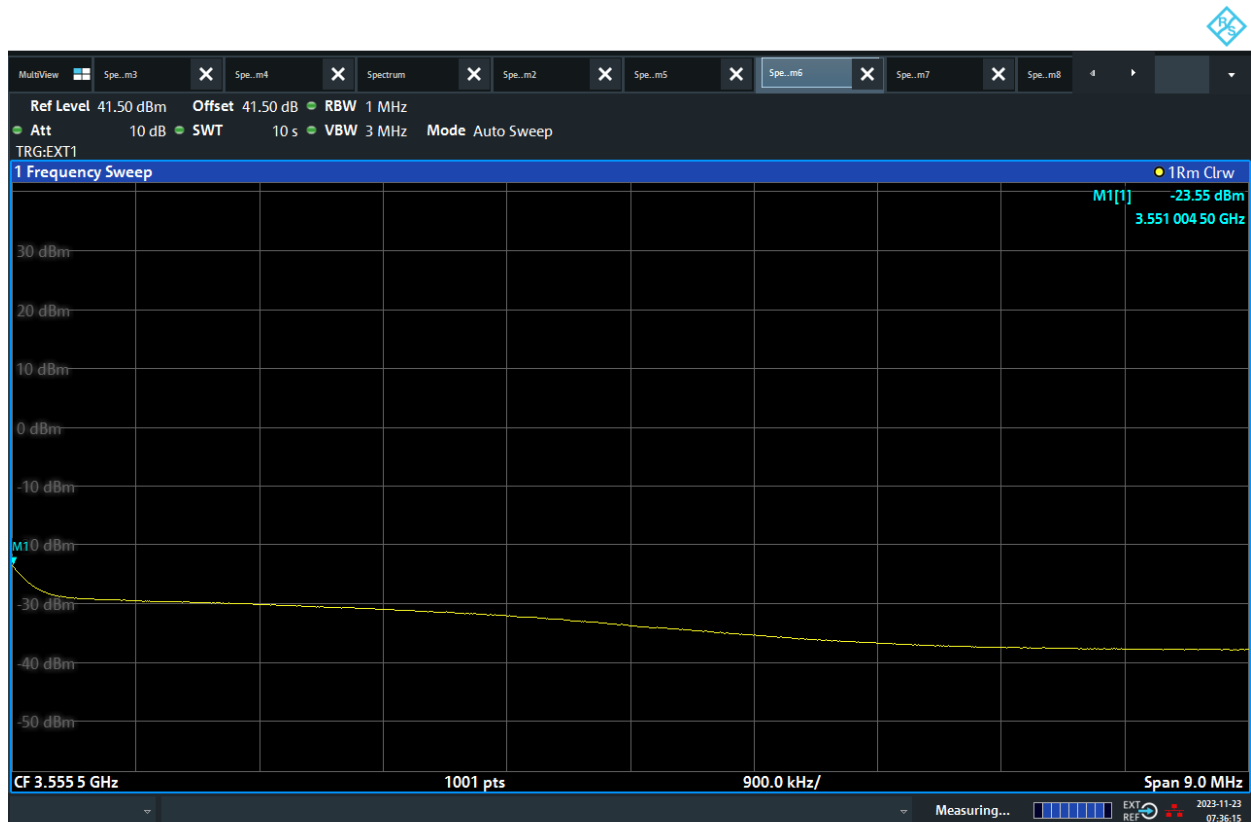


07:31:02 AM 11/23/2023

Channel Position T



07:35:51 AM 11/23/2023



07:36:16 AM 11/23/2023



07:36:48 AM 11/23/2023

Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
D	B	256QAM	15	200	-19.02
				1000	-31.02
D	T	256QAM	15	200	-19.02
				1000	-31.02