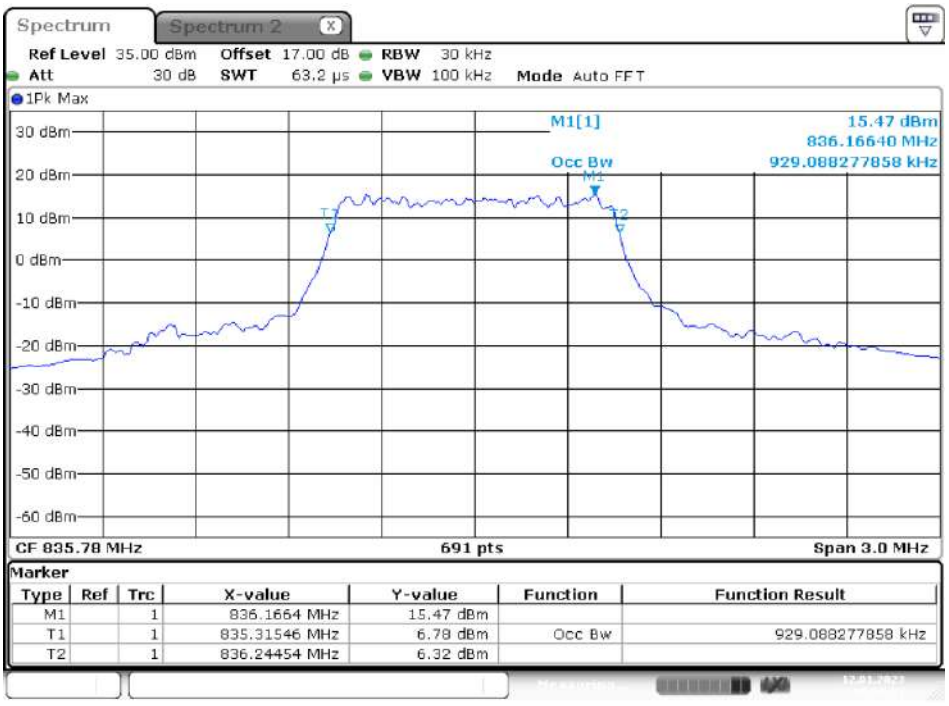
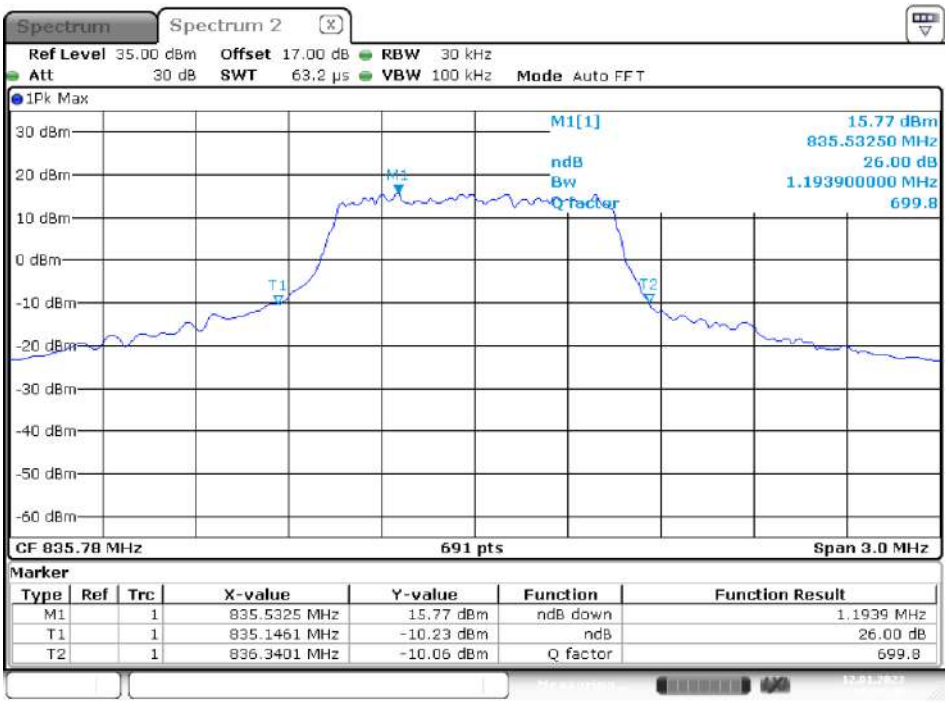
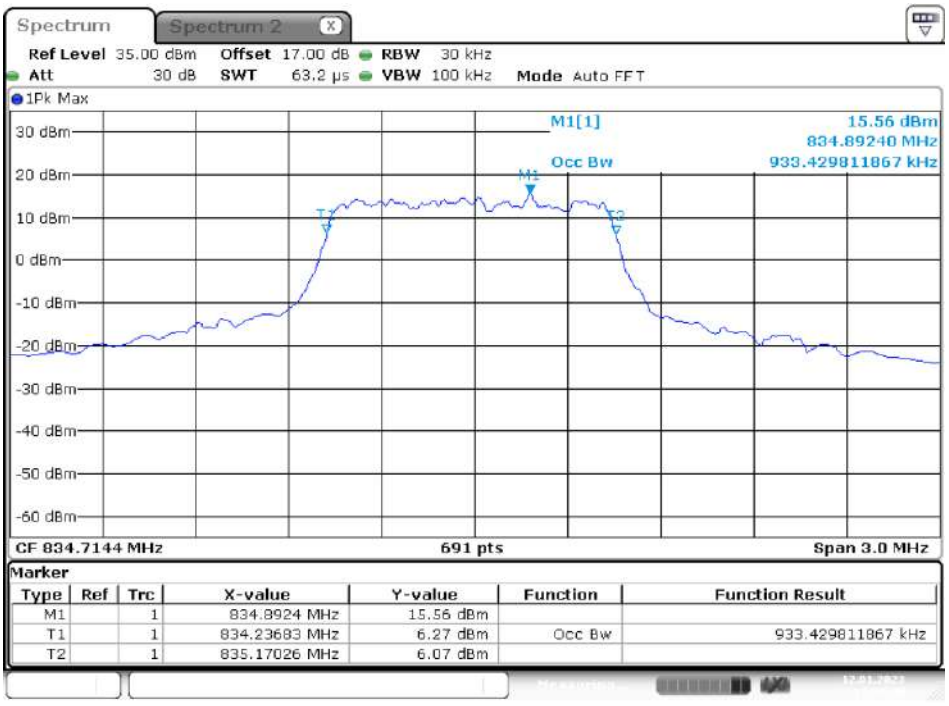
16-QAM (3.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel

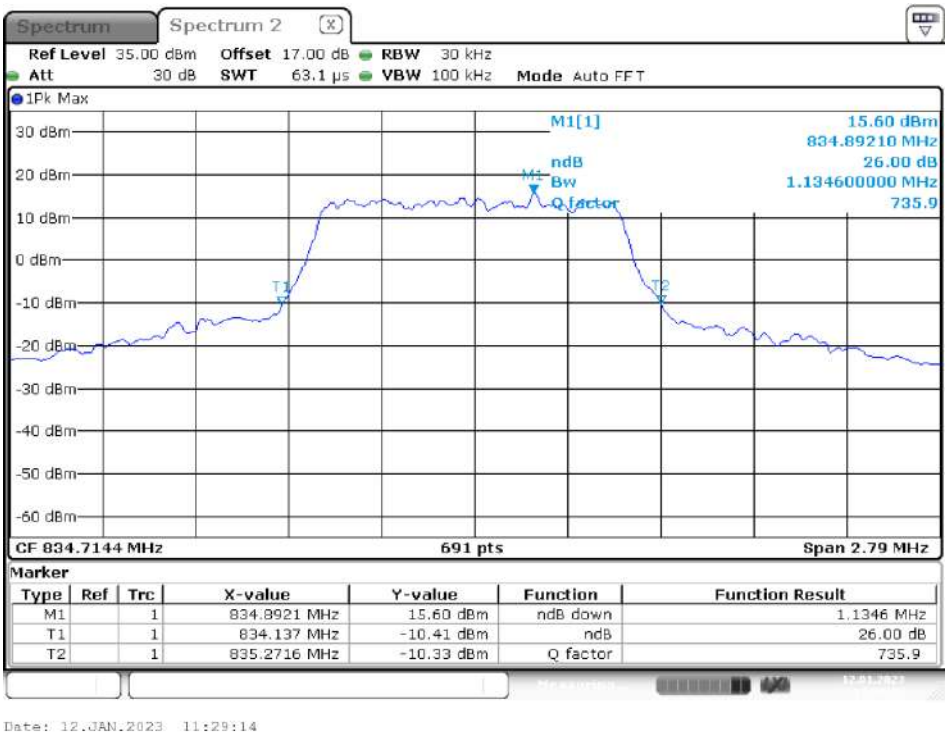




Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

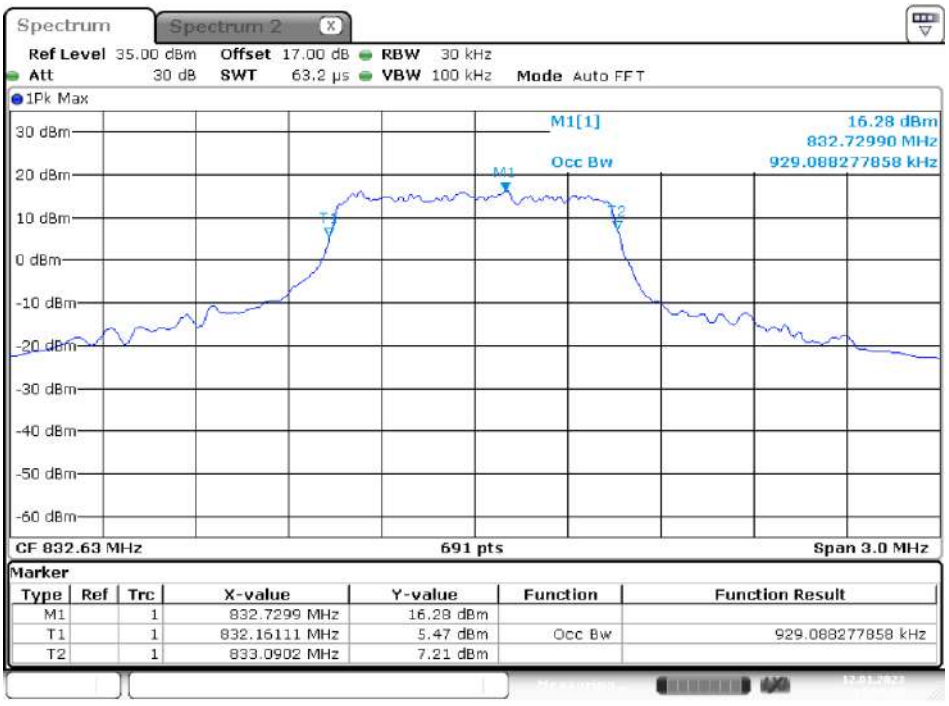
16-QAM (5.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel

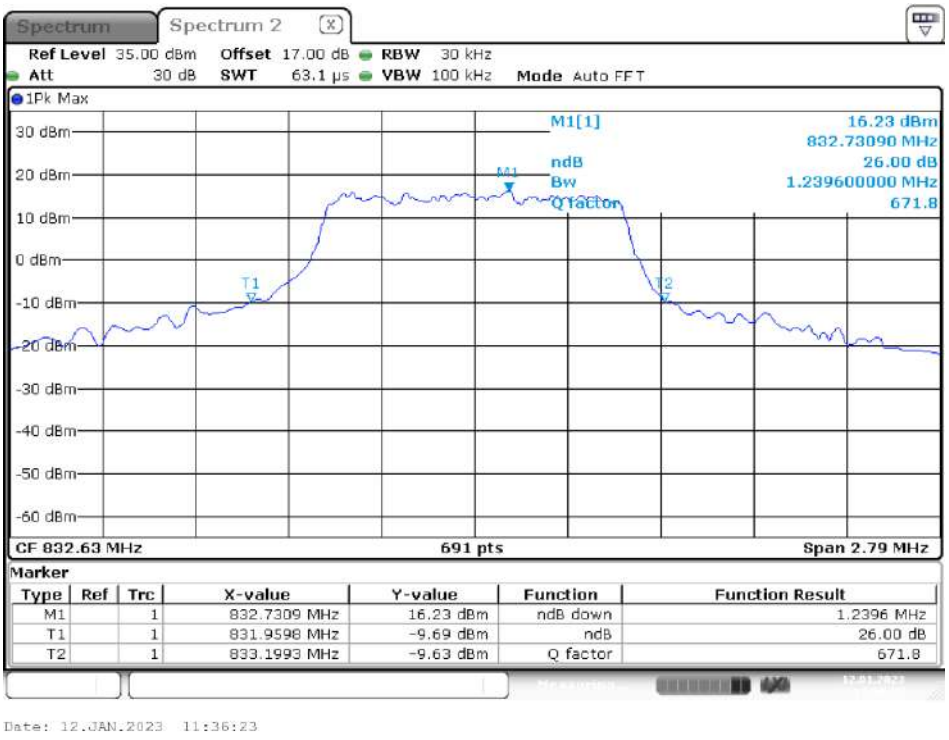




Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

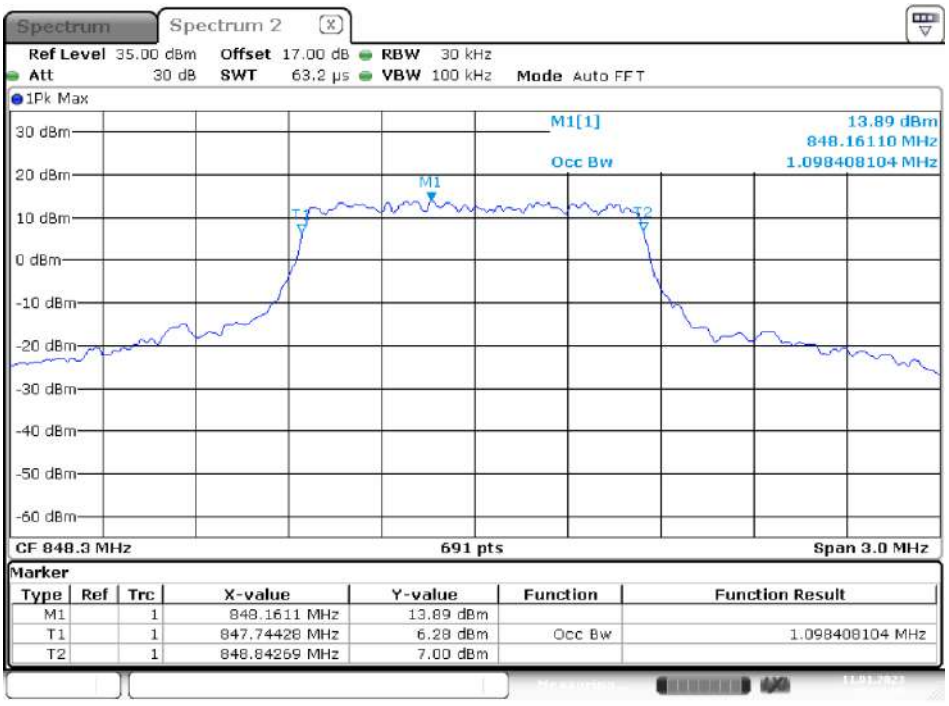
16-QAM (10.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel

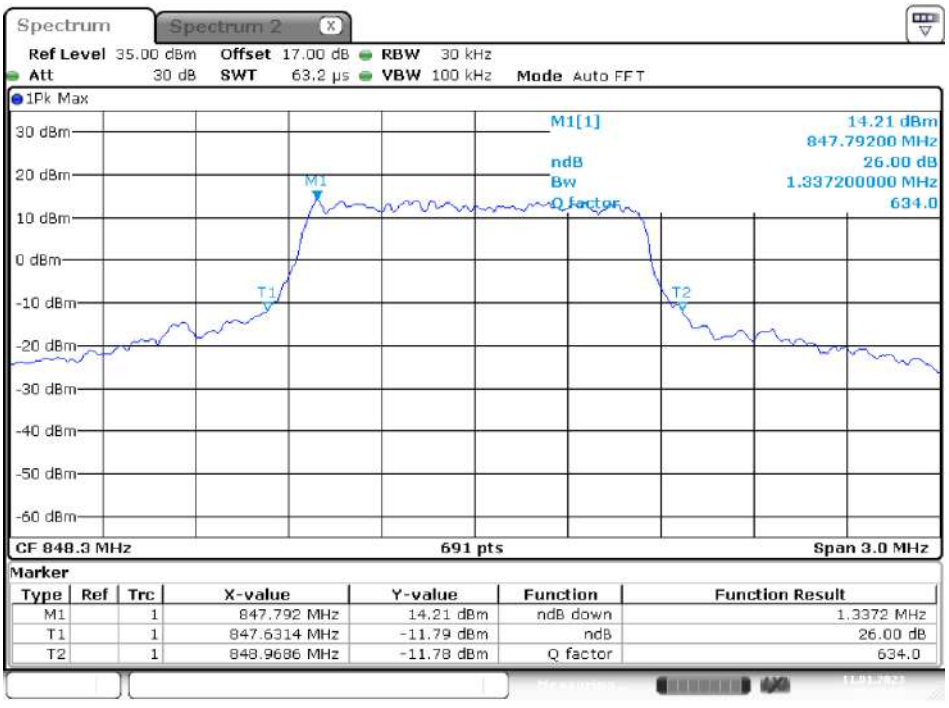




Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

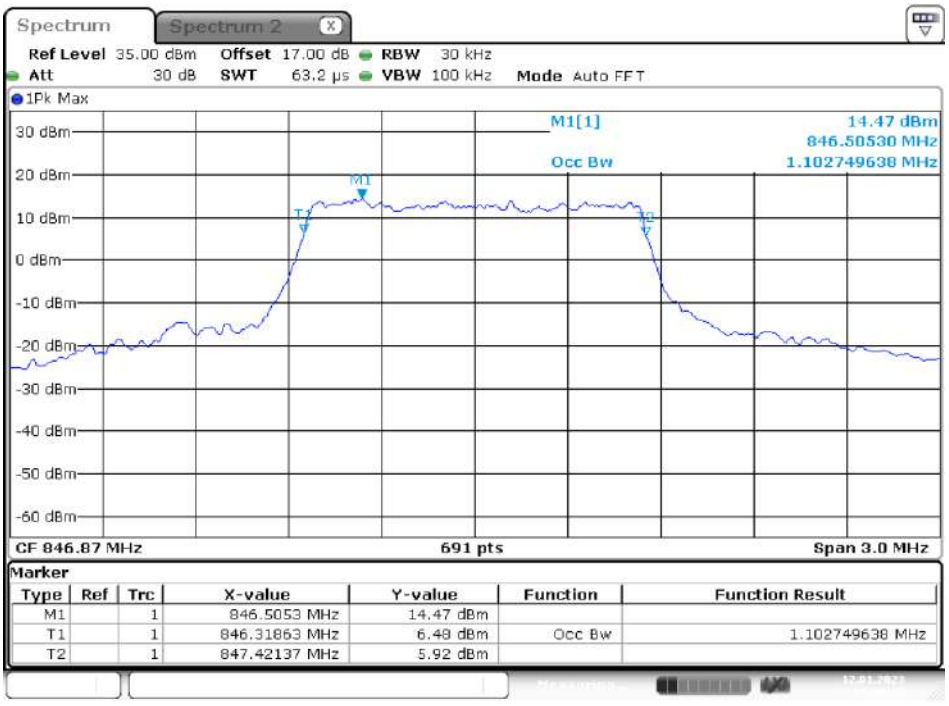
QPSK (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel



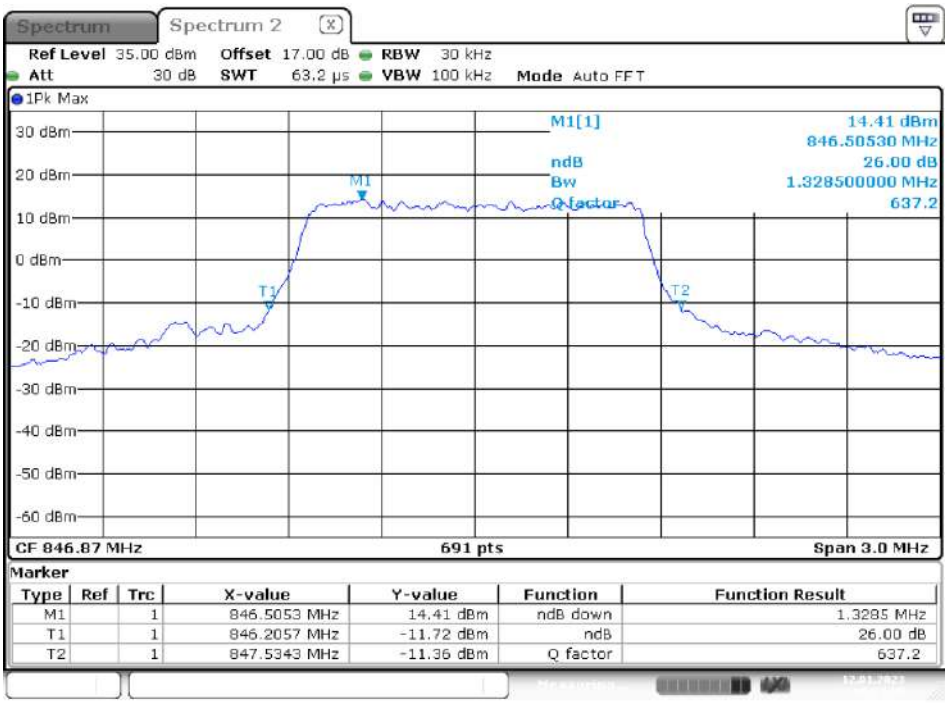


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

QPSK (3.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel



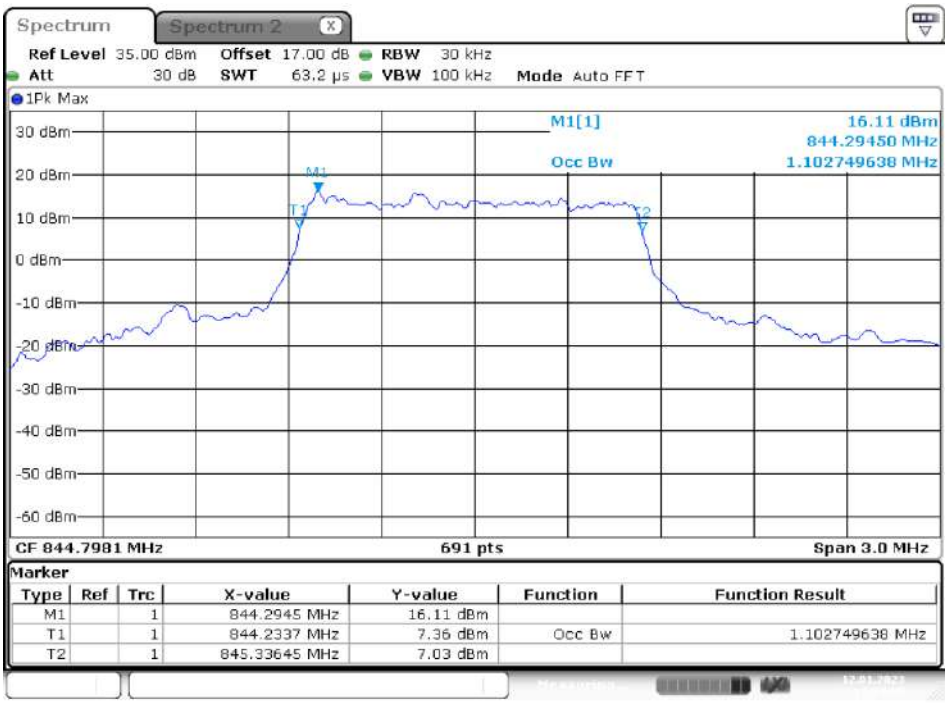
Date: 12.JAN.2023 10:49:16



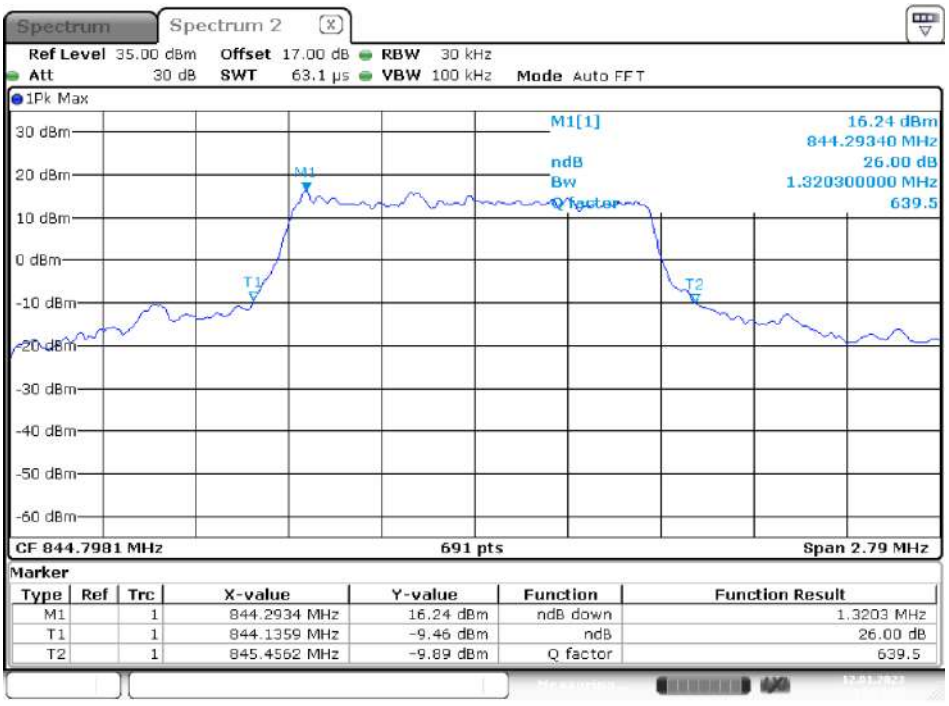
Date: 12.JAN.2023 10:51:38

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

QPSK (5.0MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel



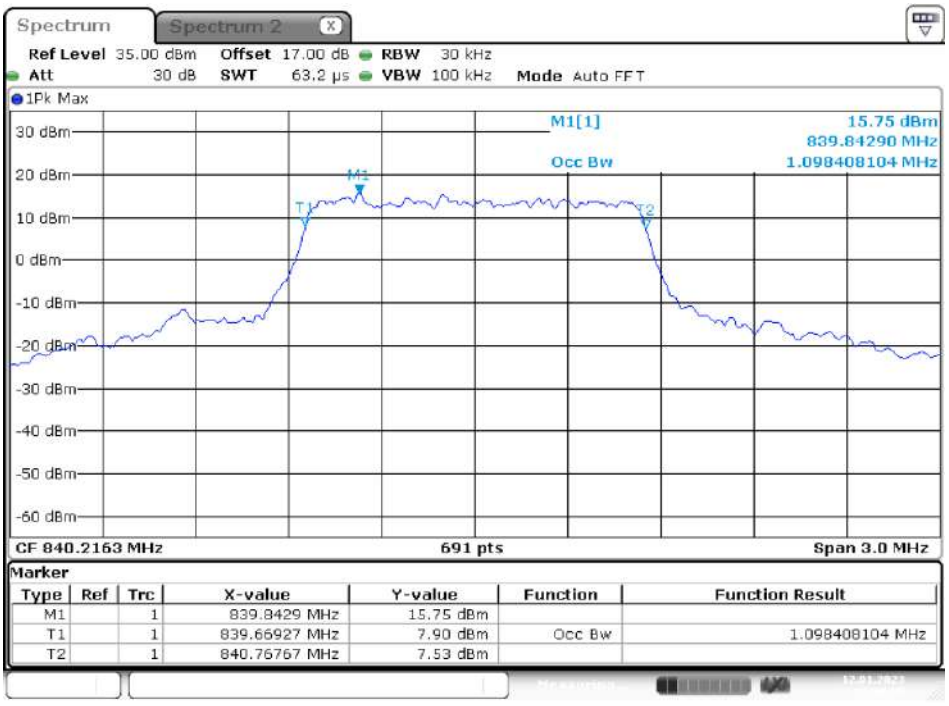
Date: 12.JAN.2023 11:24:08

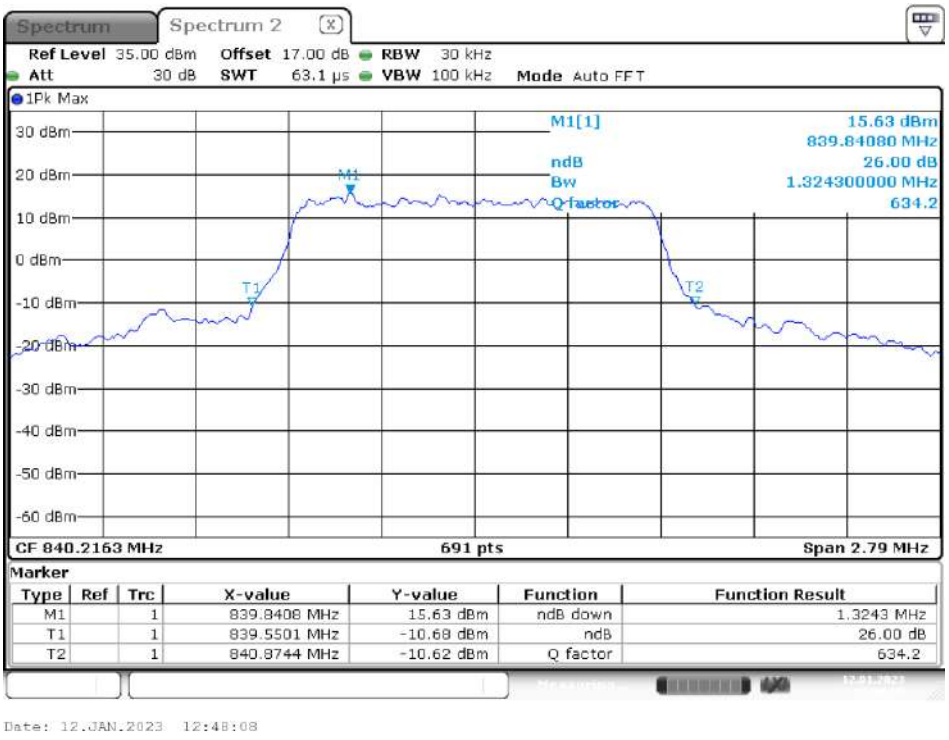


Date: 12.JAN.2023 11:23:37

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

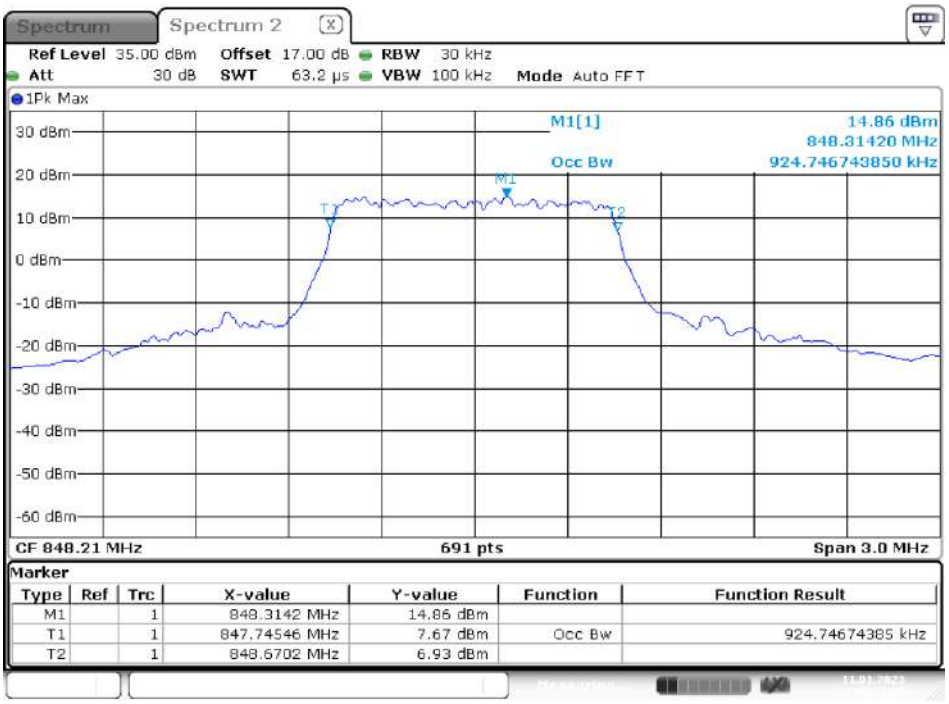
QPSK (10.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel



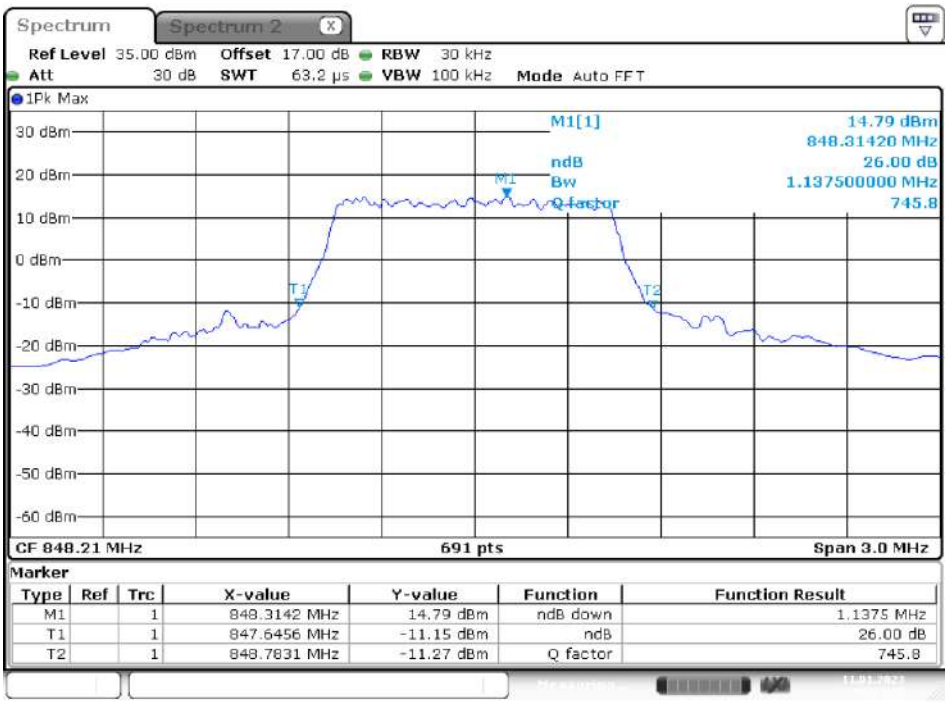


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel



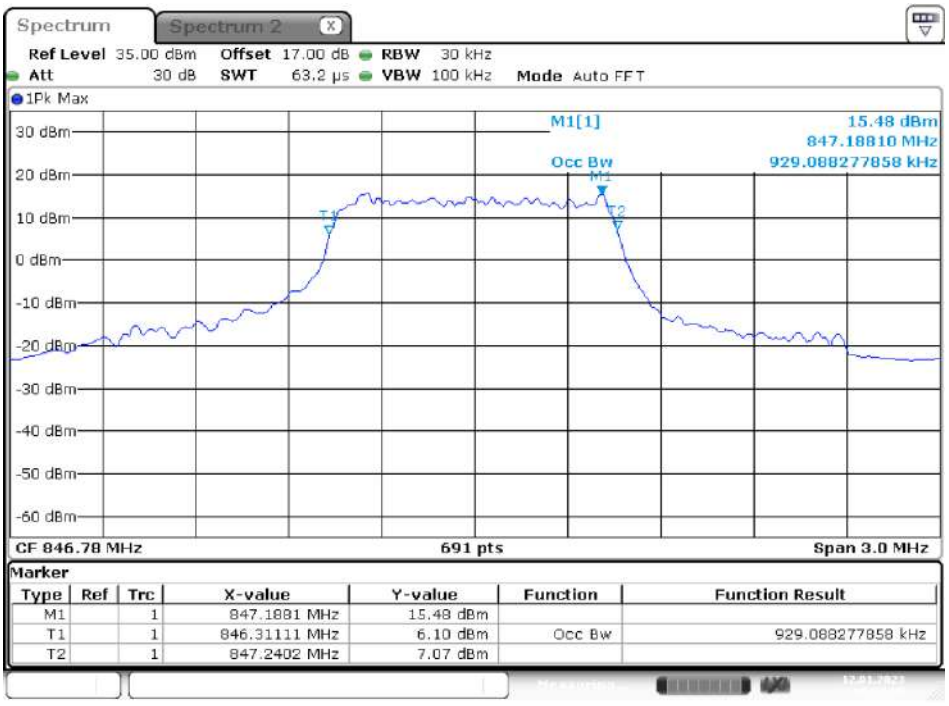
Date: 11.JAN.2023 16:13:39

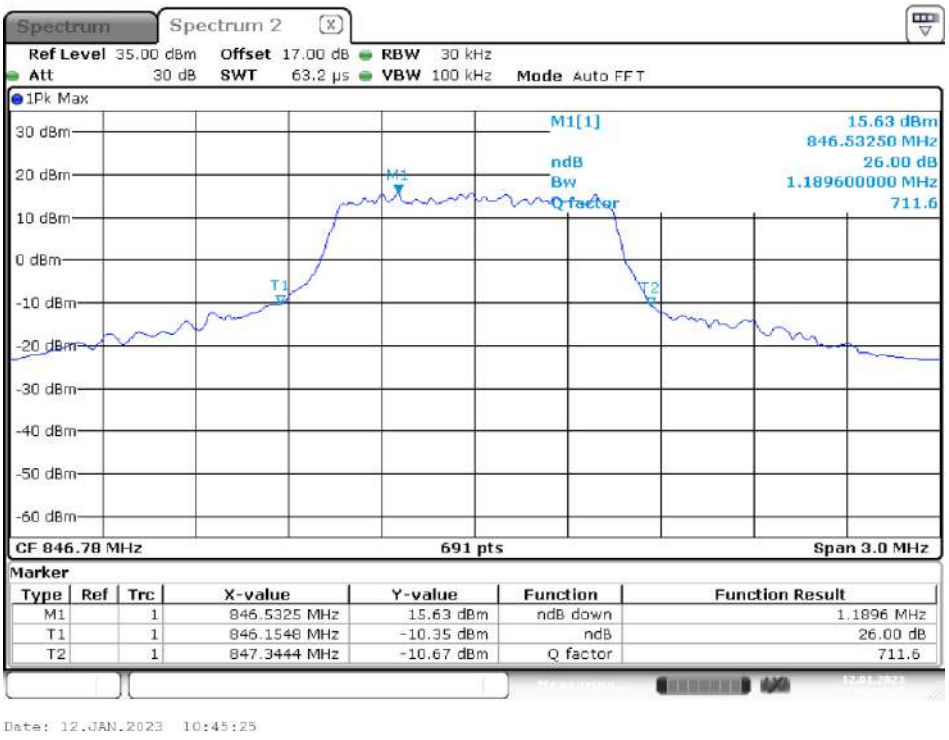


Date: 11.JAN.2023 16:13:18

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

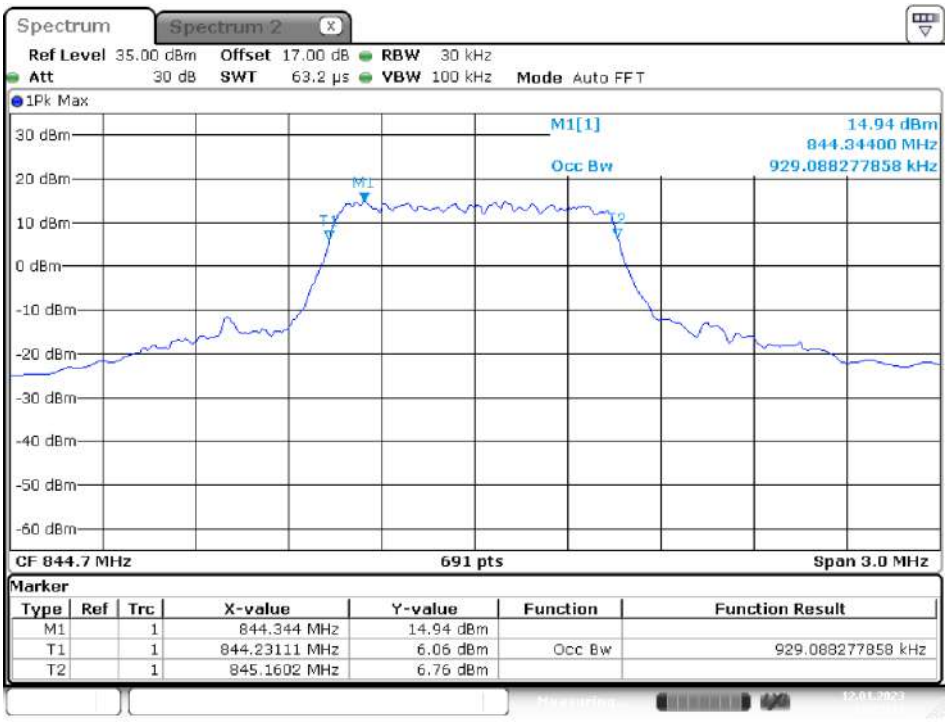
16-QAM (3.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel

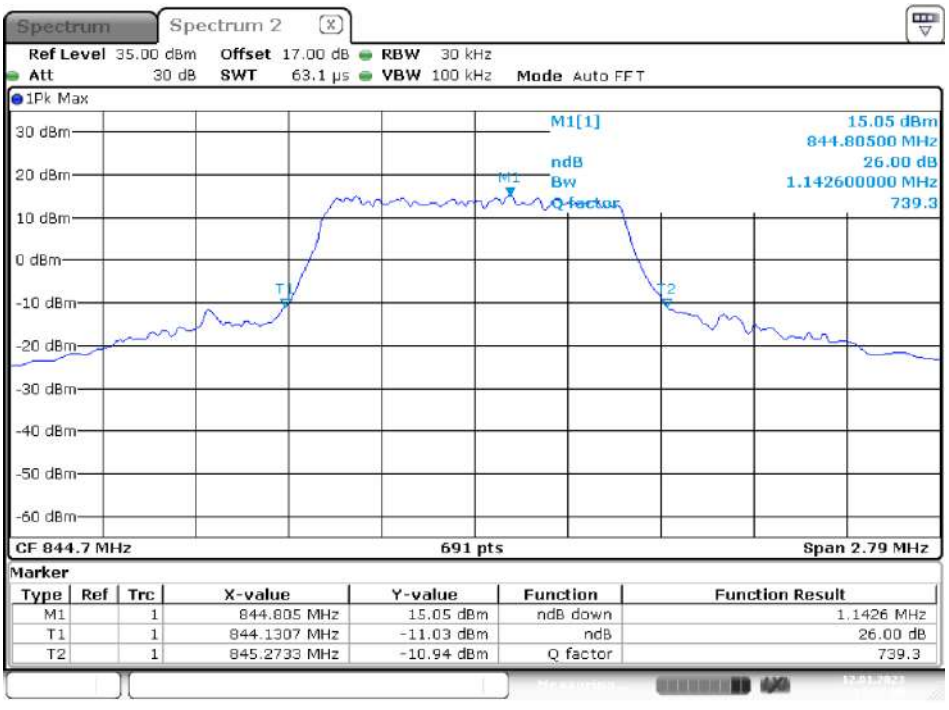




Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

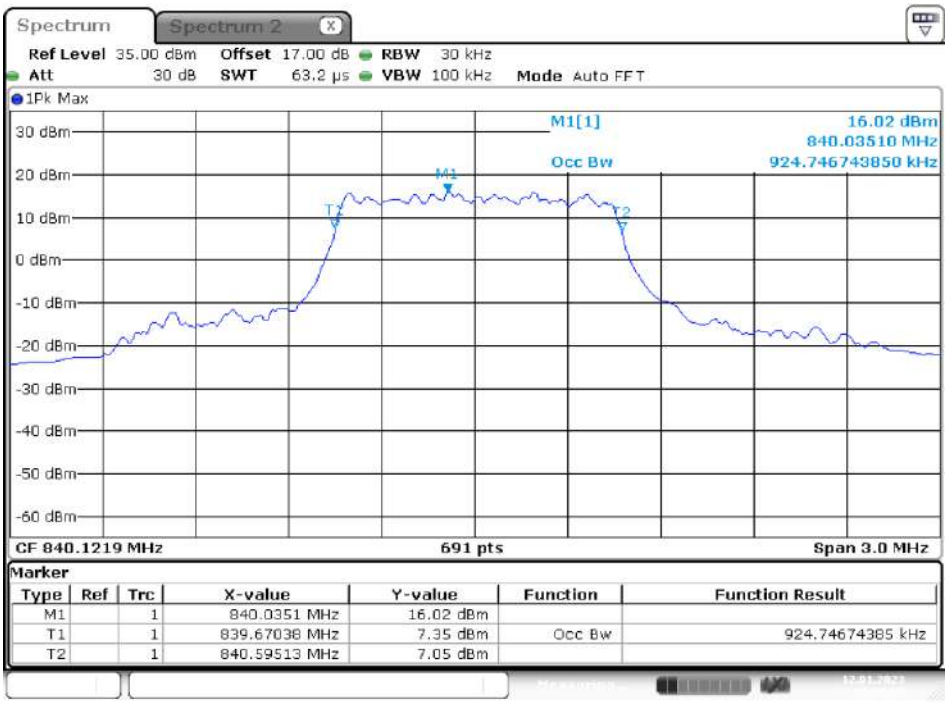
16-QAM (5.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel

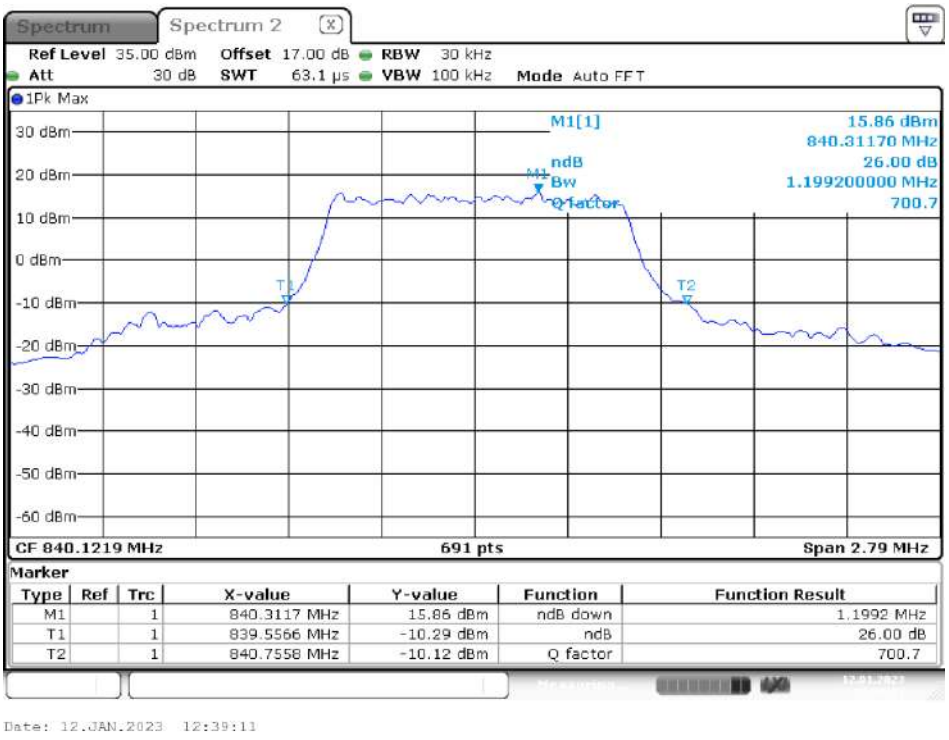




Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

16-QAM (10.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel

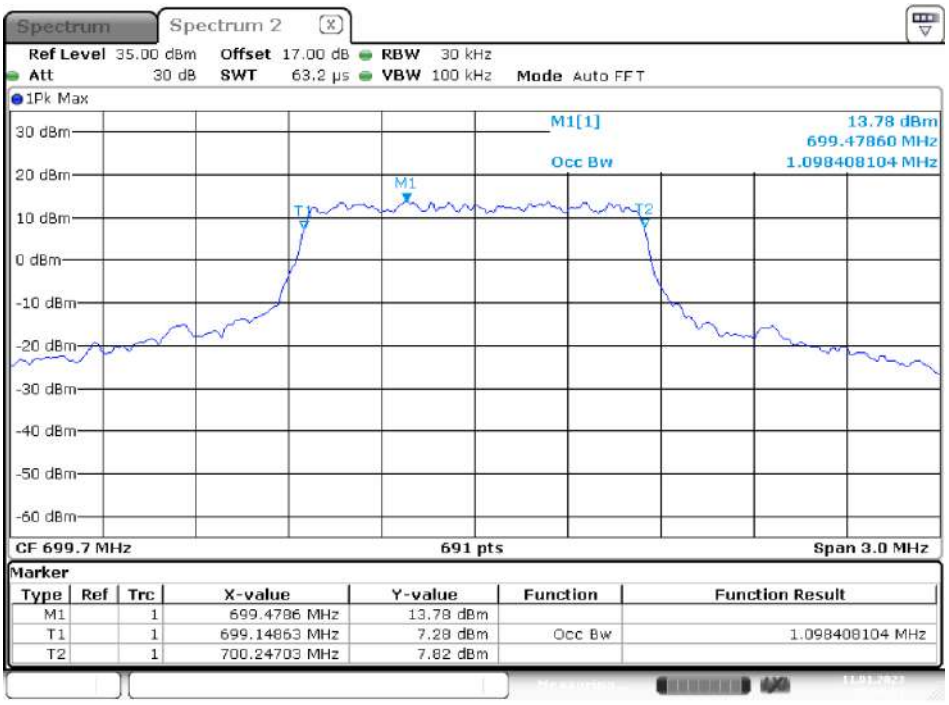




Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

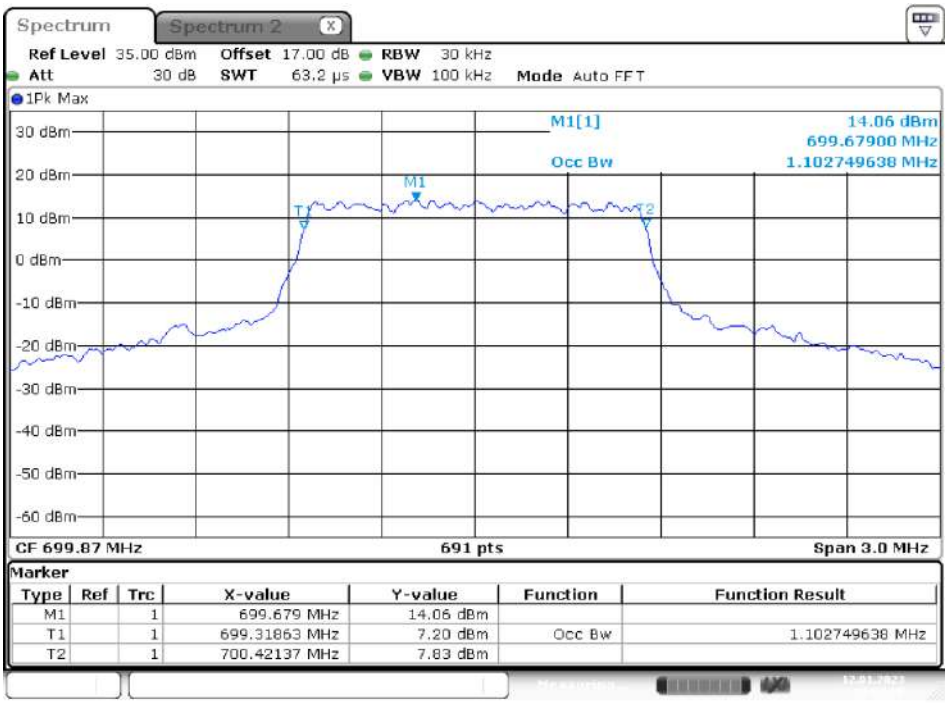
LTE Band 12

QPSK (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel

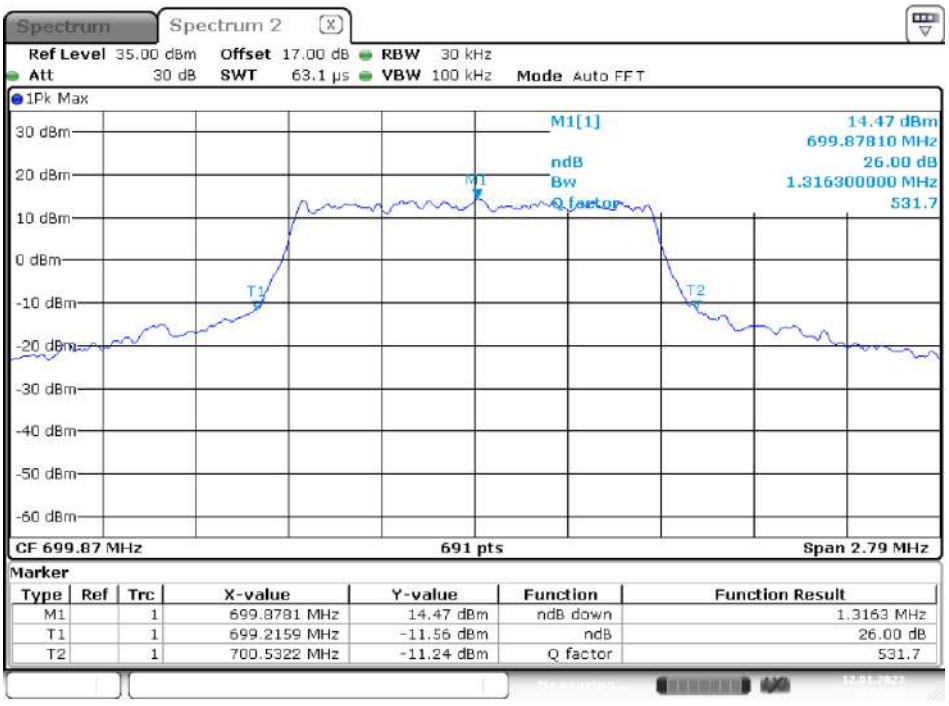


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

QPSK (3.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel



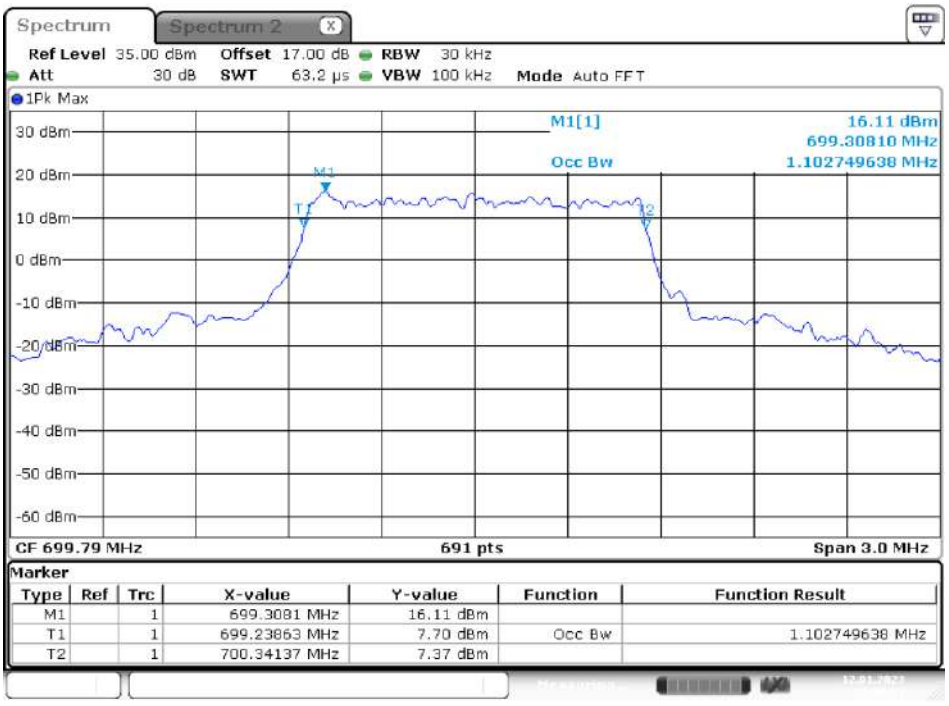
Date: 12.JAN.2023 13:02:27



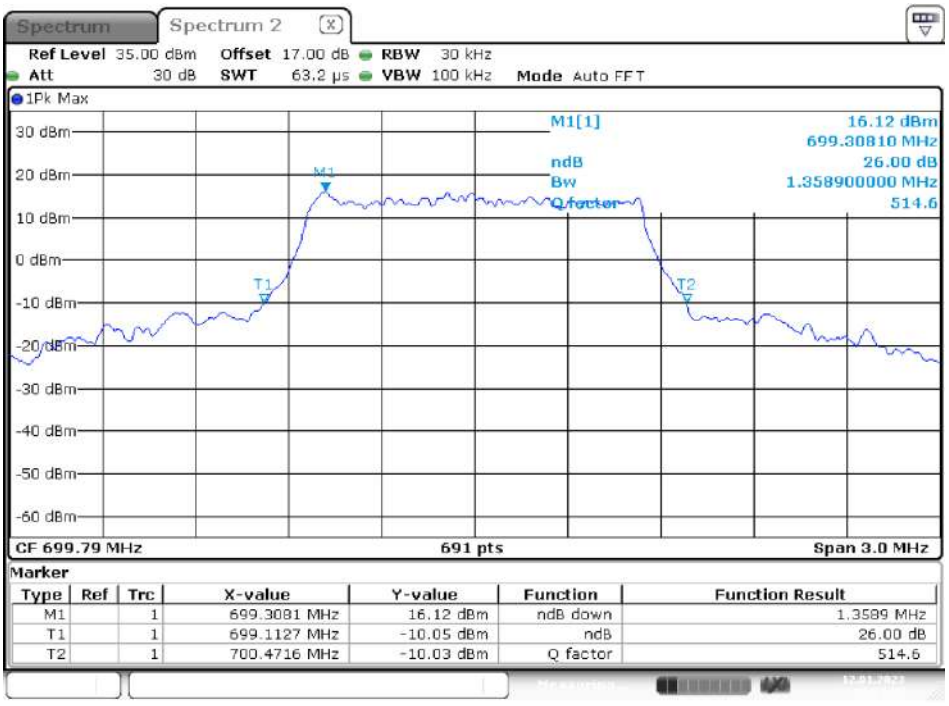
Date: 12.JAN.2023 13:02:56

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

QPSK (5.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel



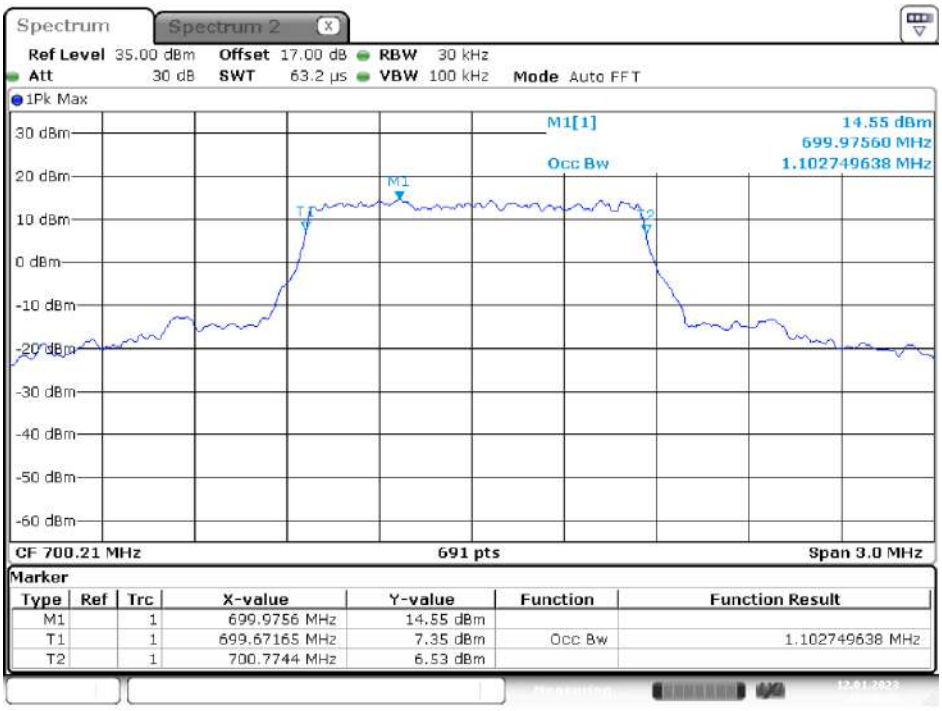
Date: 12.JAN.2023 13:50:51

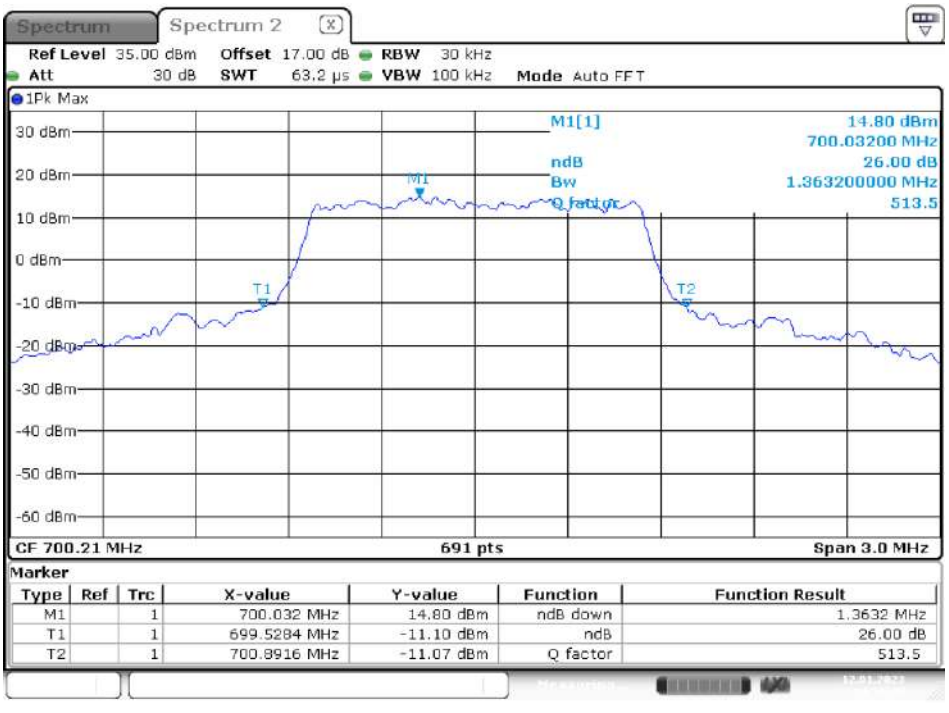


Date: 12.JAN.2023 13:51:23

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

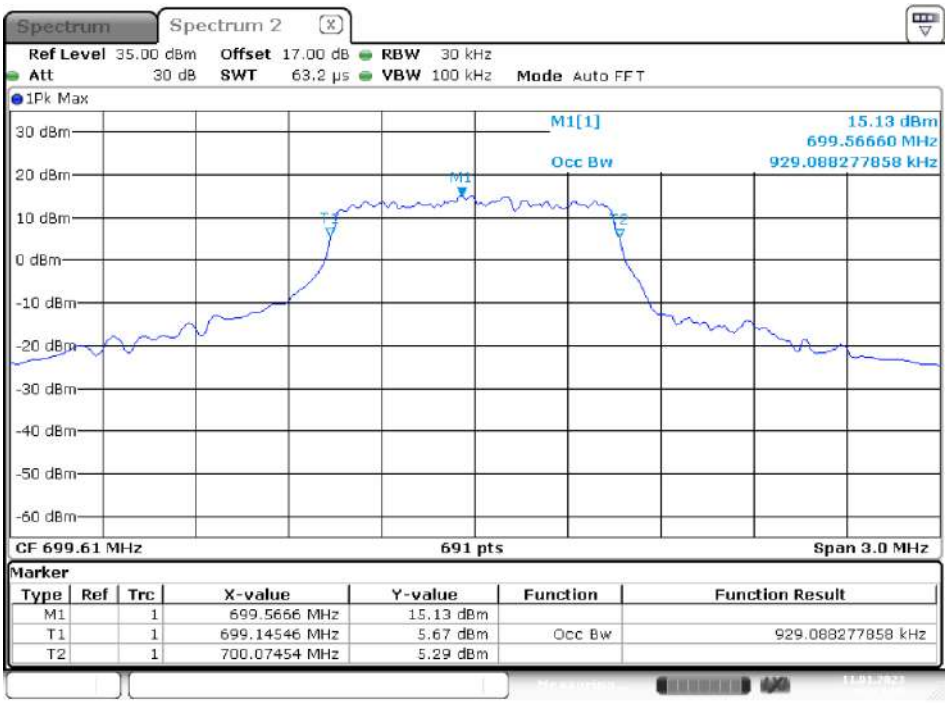
QPSK (10.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel



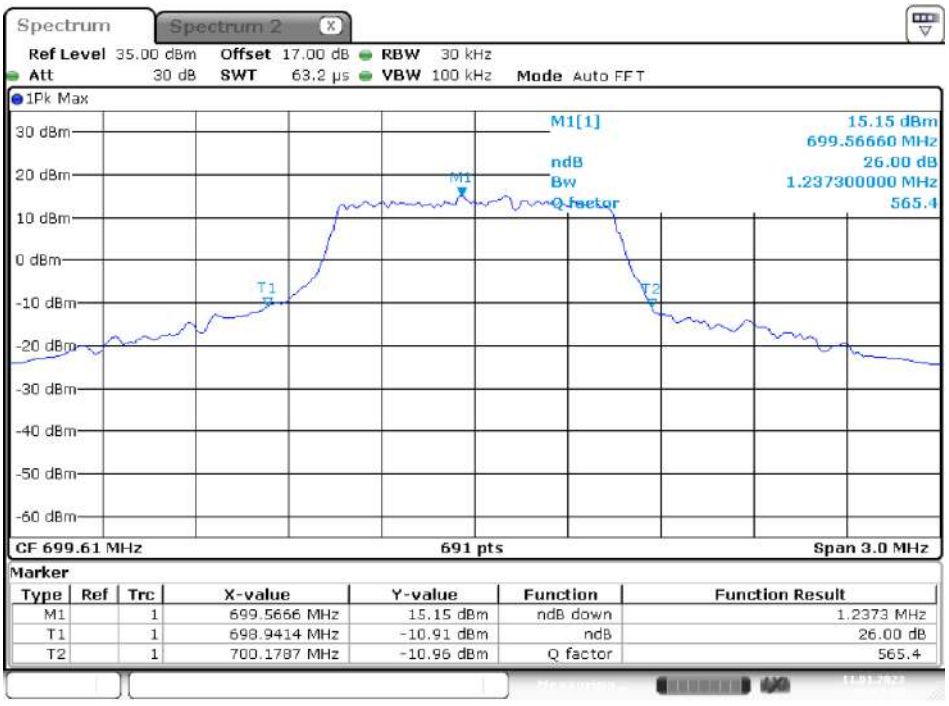


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel



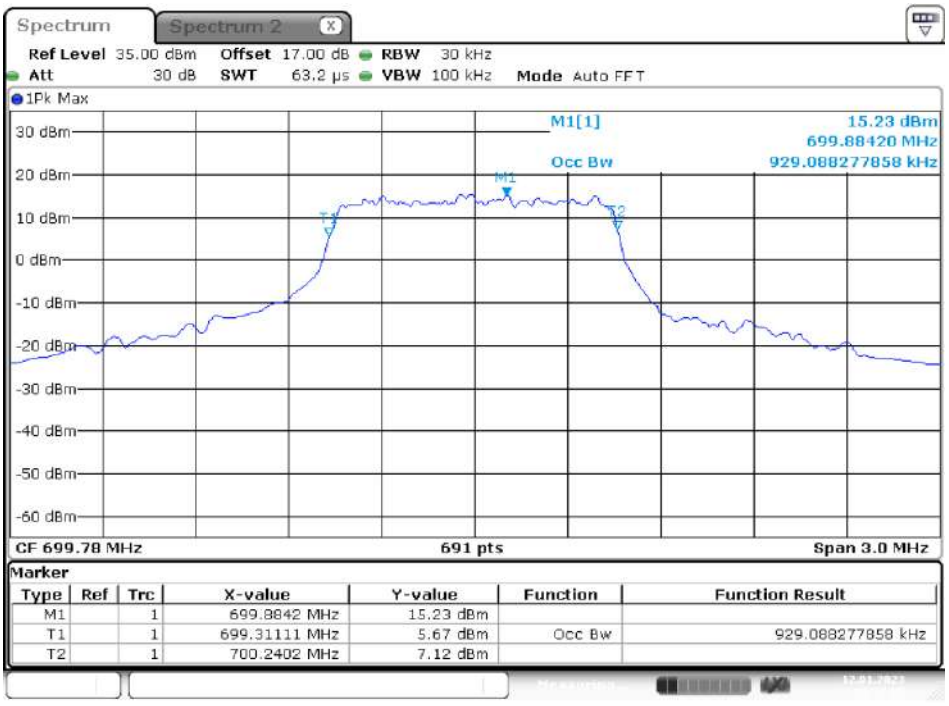
Date: 11.JAN.2023 16:17:29

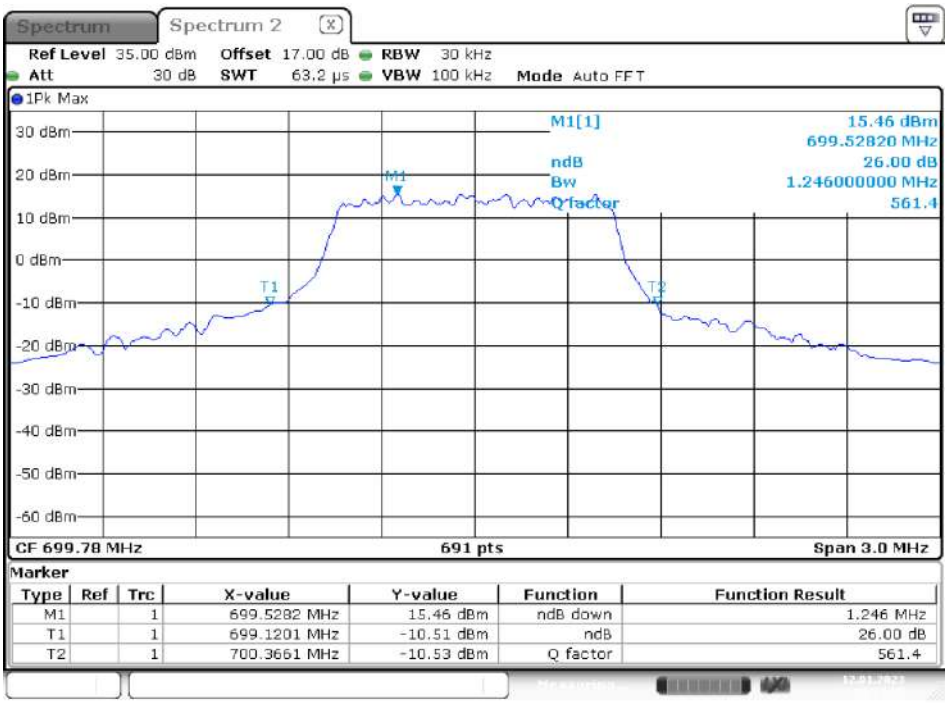


Date: 11.JAN.2023 16:17:03

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

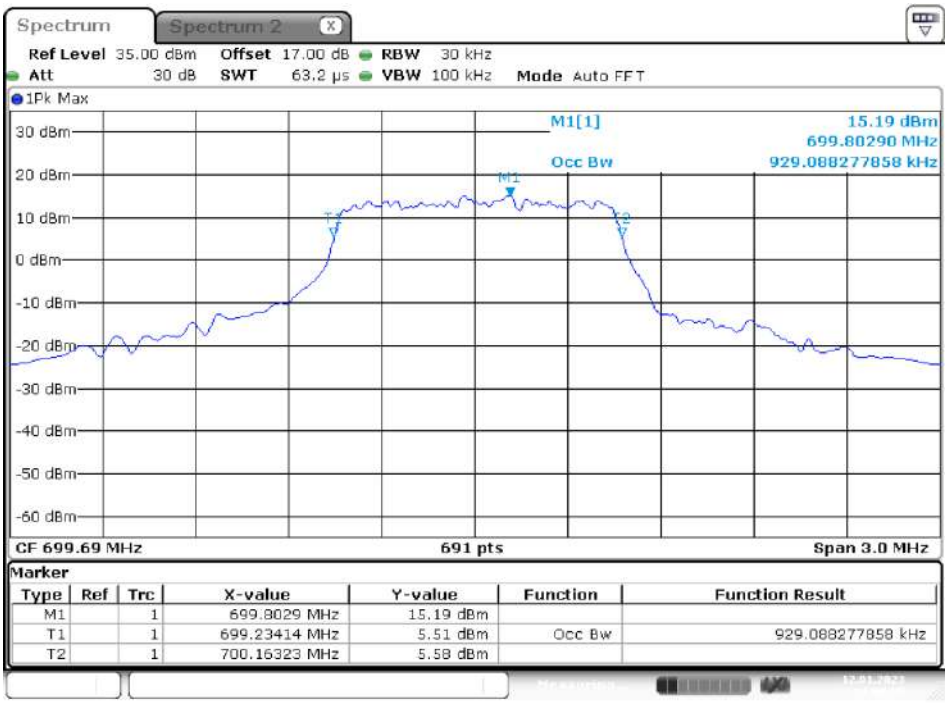
16-QAM (3.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel

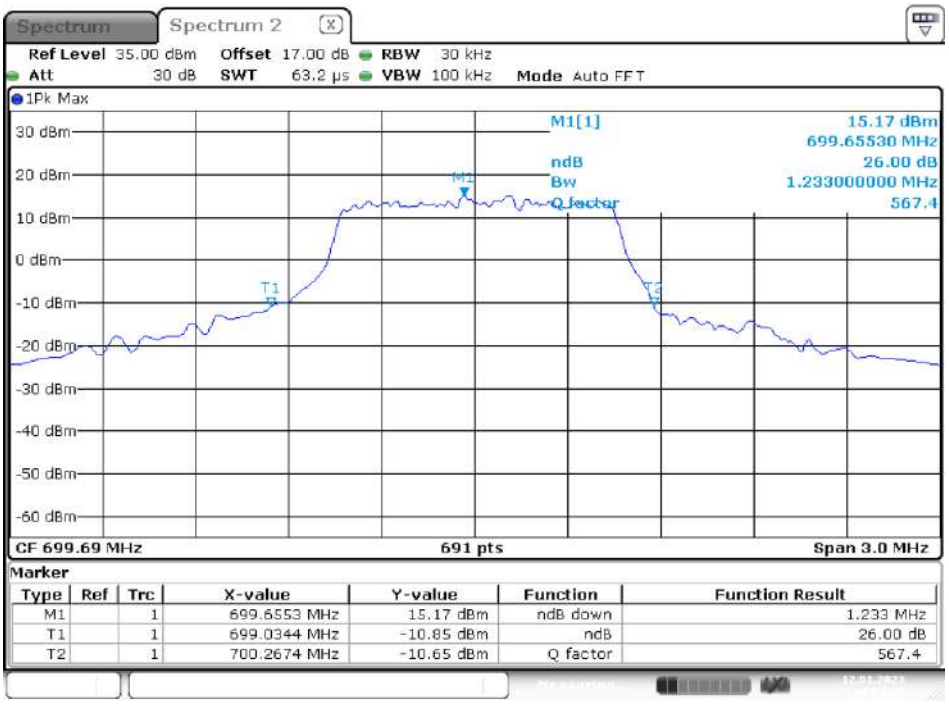




Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

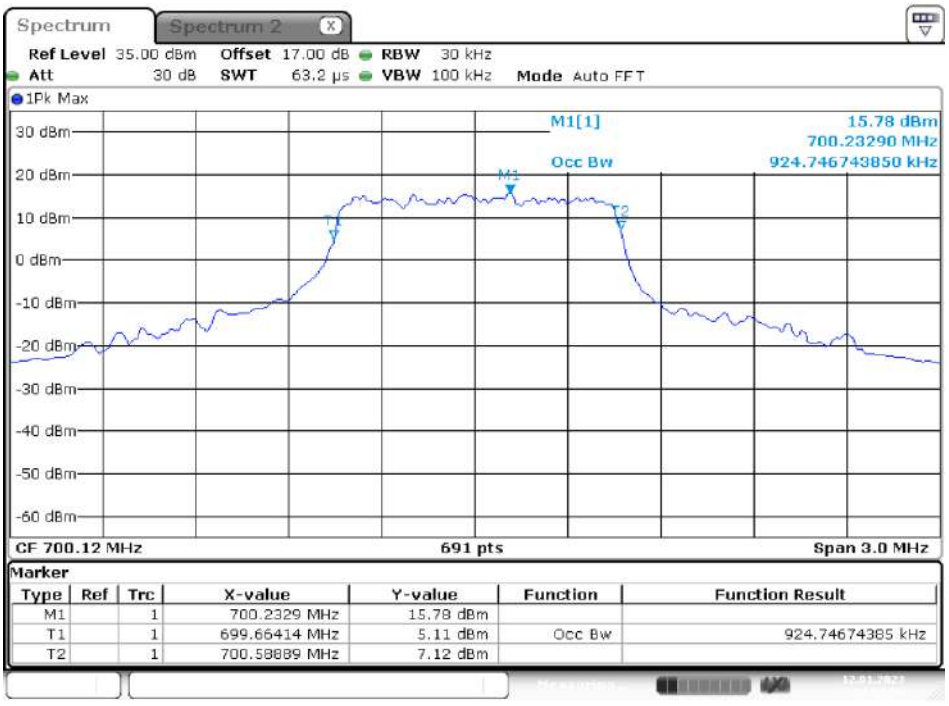
16-QAM (5.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel



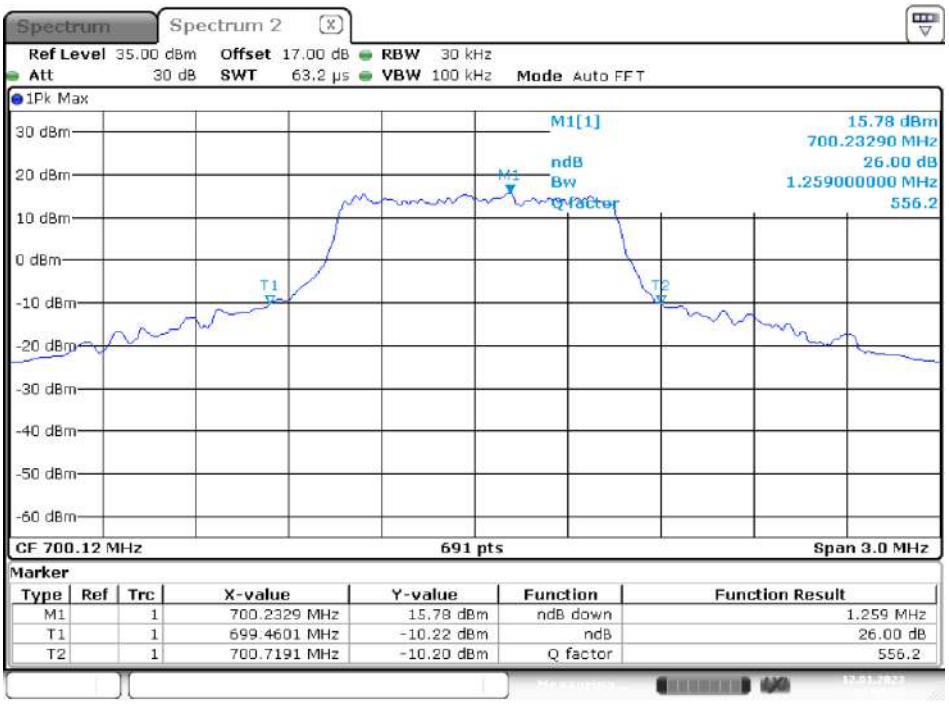


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

16-QAM (10.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel



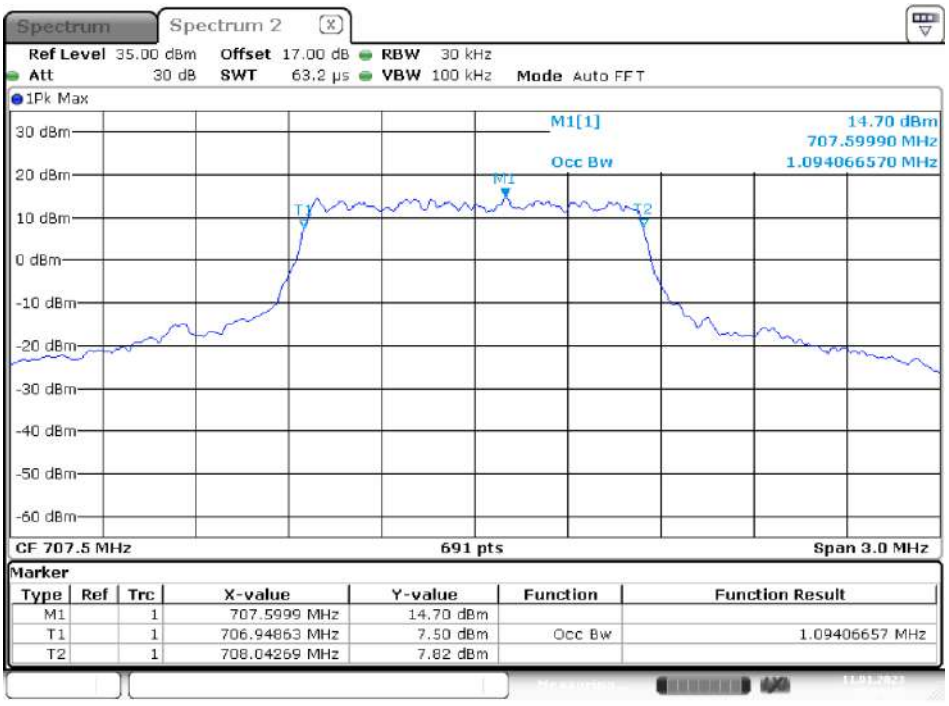
Date: 12.JAN.2023 14:07:55

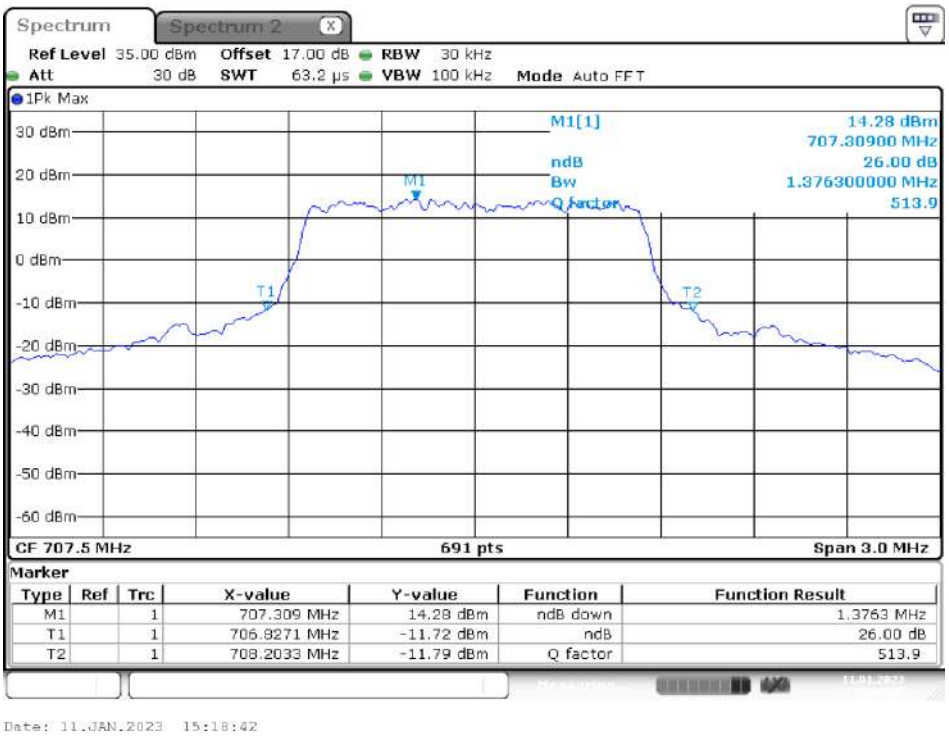


Date: 12.JAN.2023 14:08:23

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

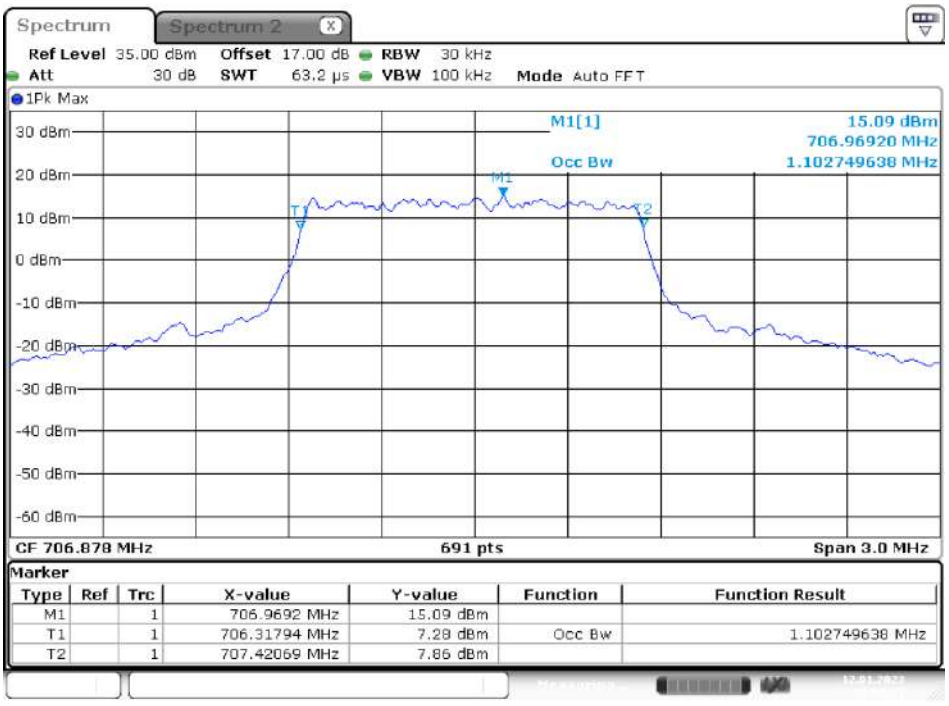
QPSK (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel



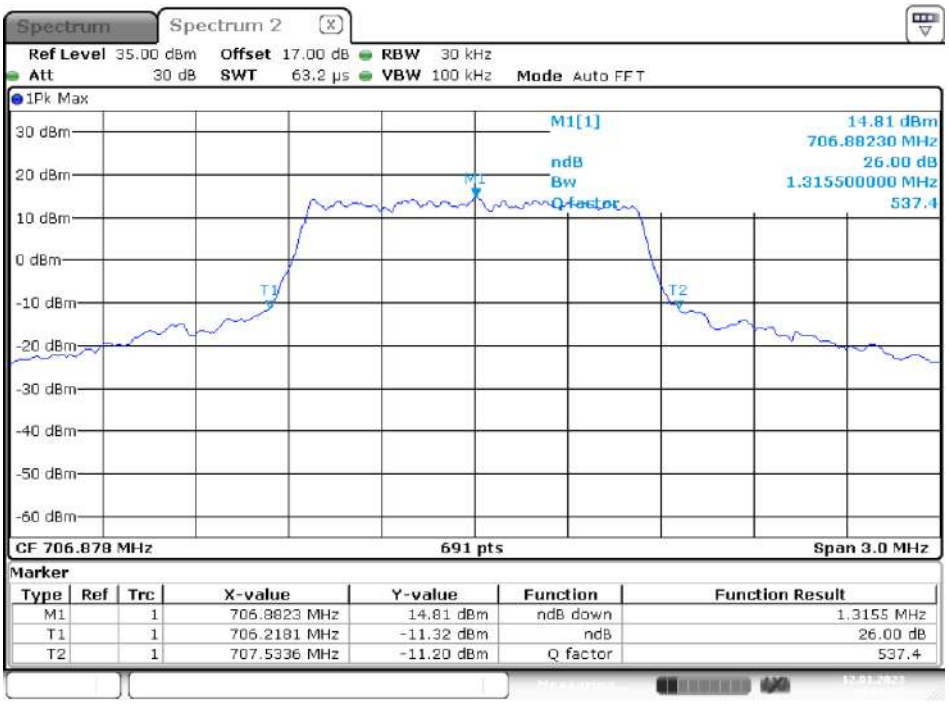


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

QPSK (3.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel



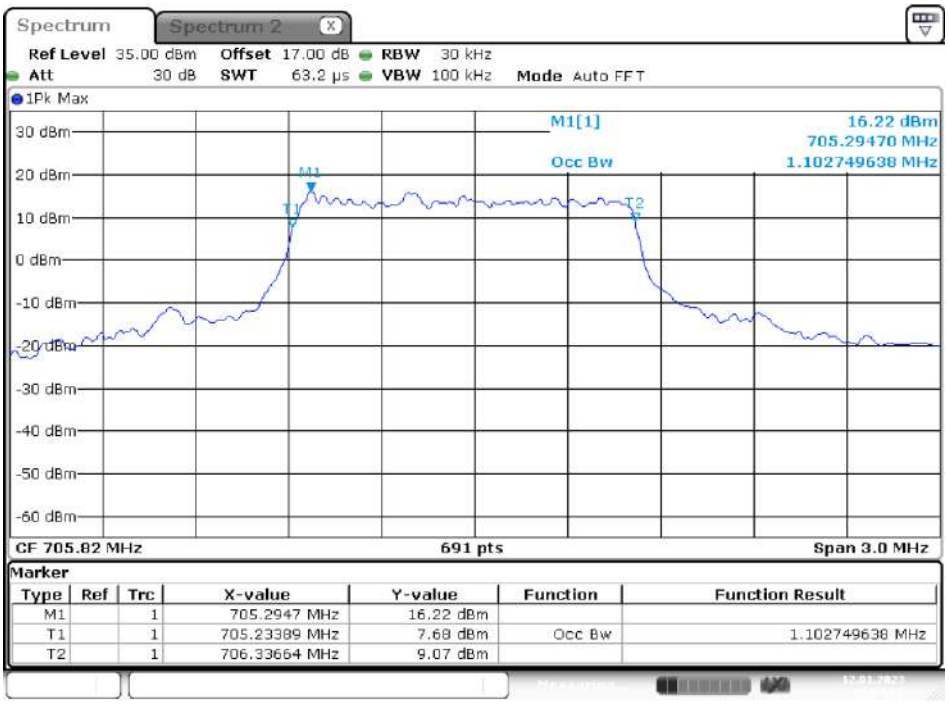
Date: 12.JAN.2023 13:05:42



Date: 12.JAN.2023 13:05:12

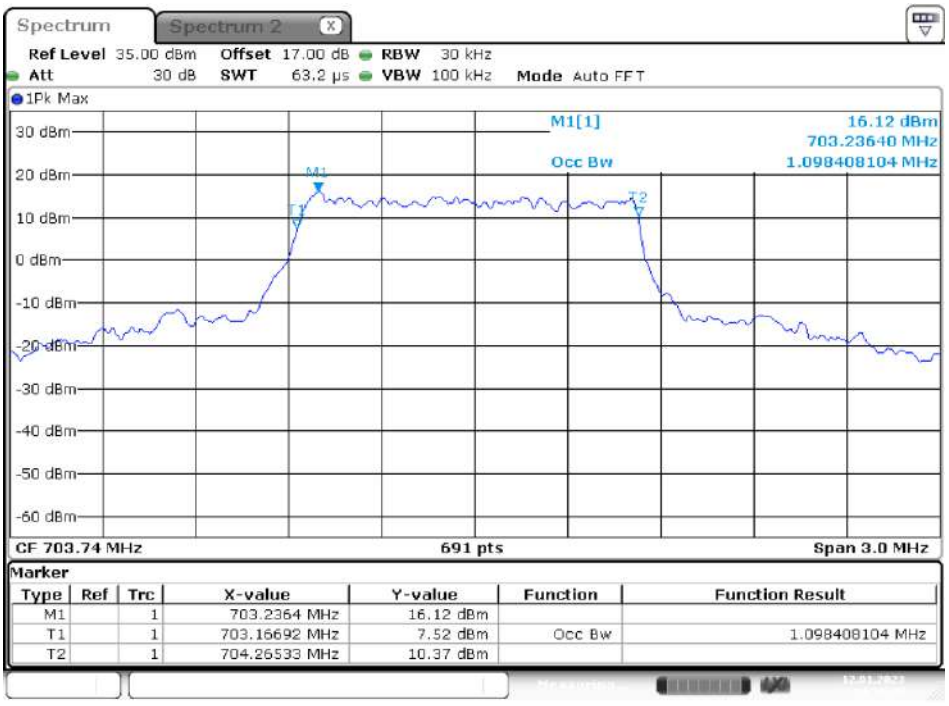
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

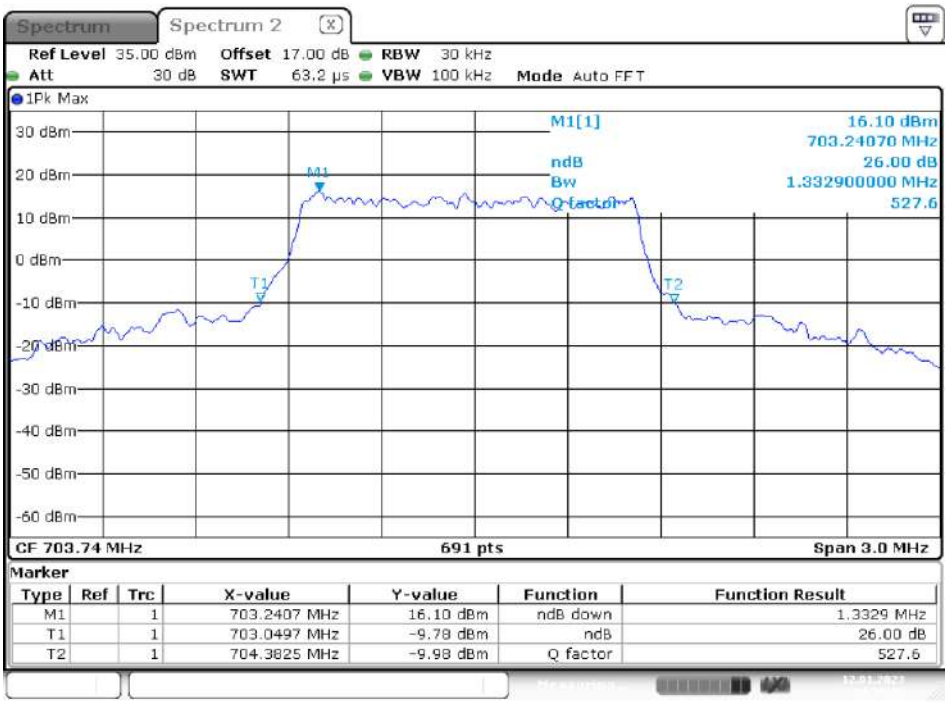
QPSK (5.0MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel



Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

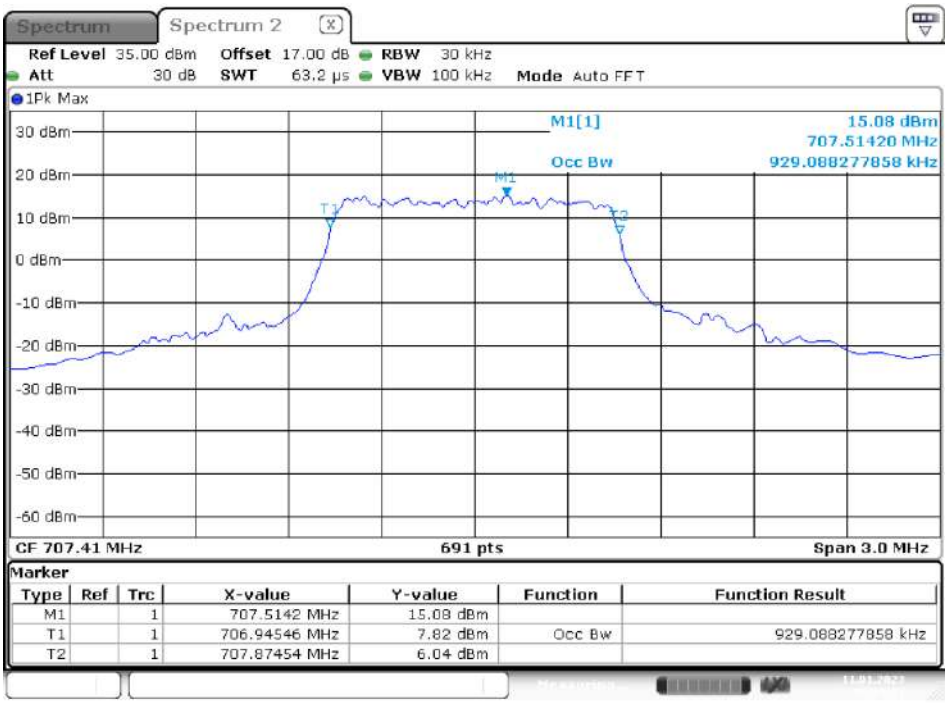
QPSK (10.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel



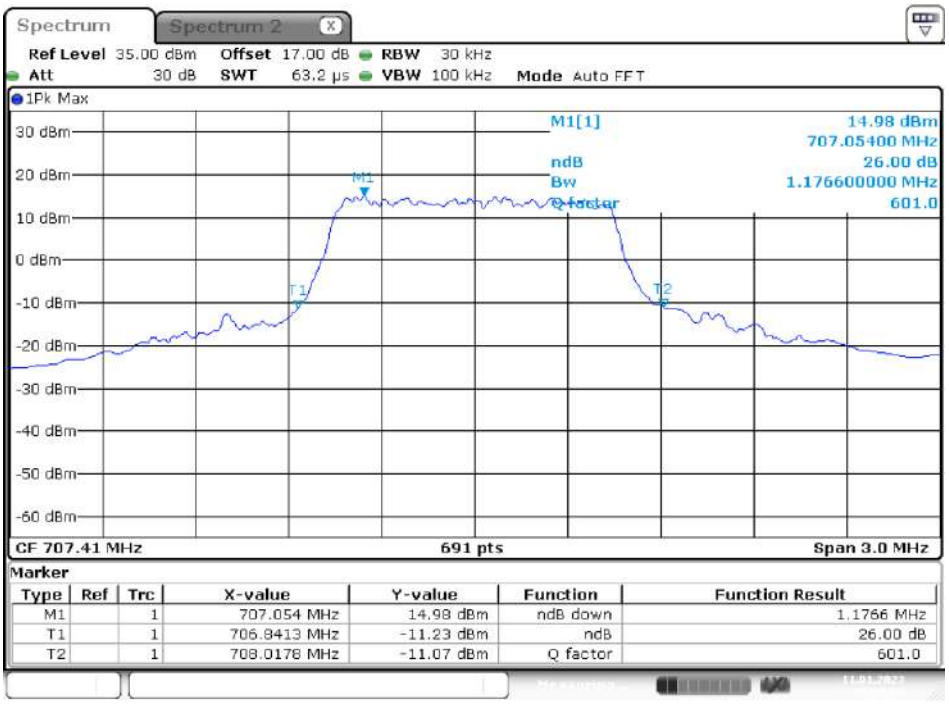


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel



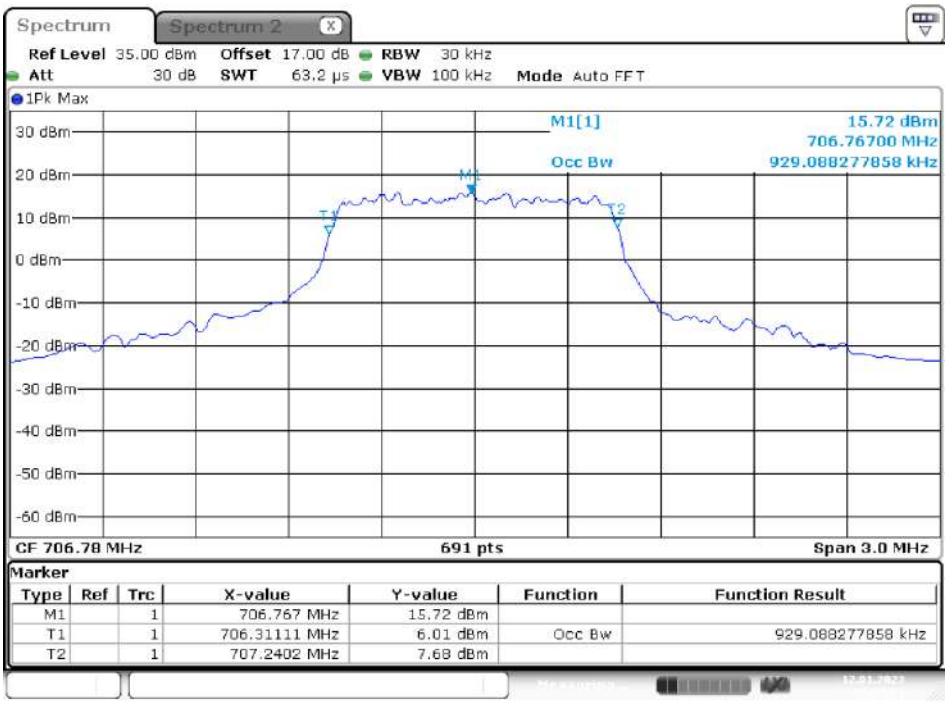
Date: 11.JAN.2023 16:19:11

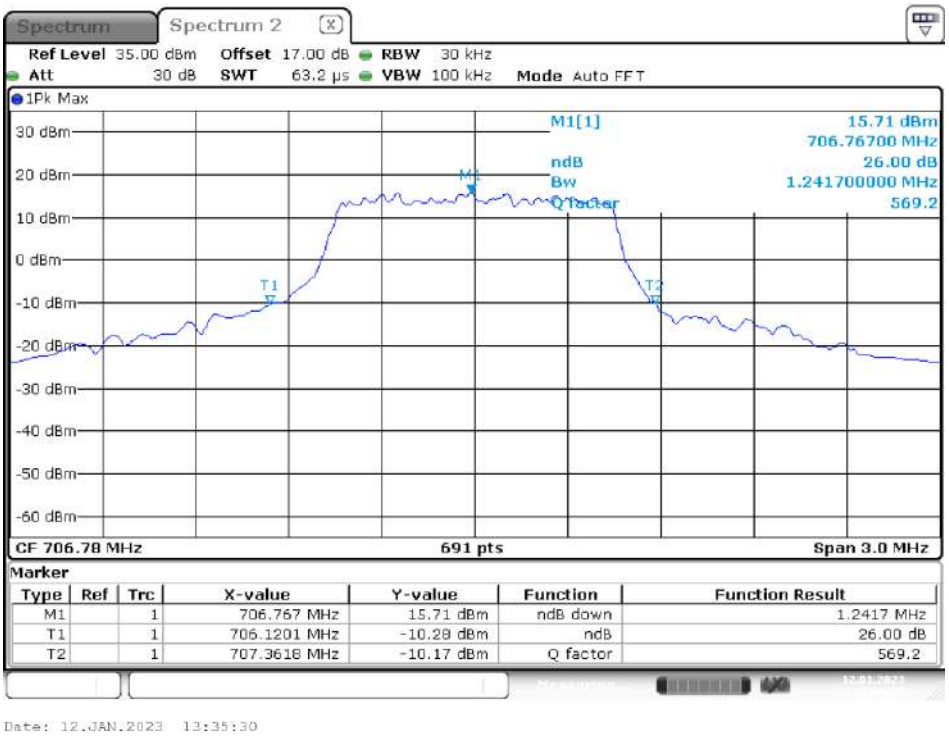


Date: 11.JAN.2023 16:18:54

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

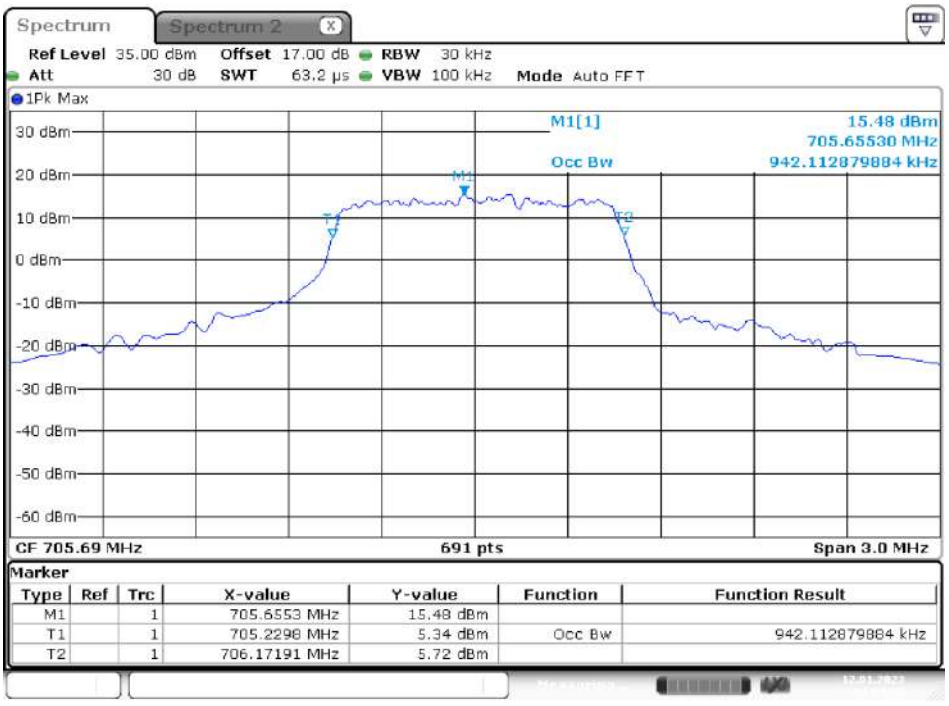
16-QAM (3.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel

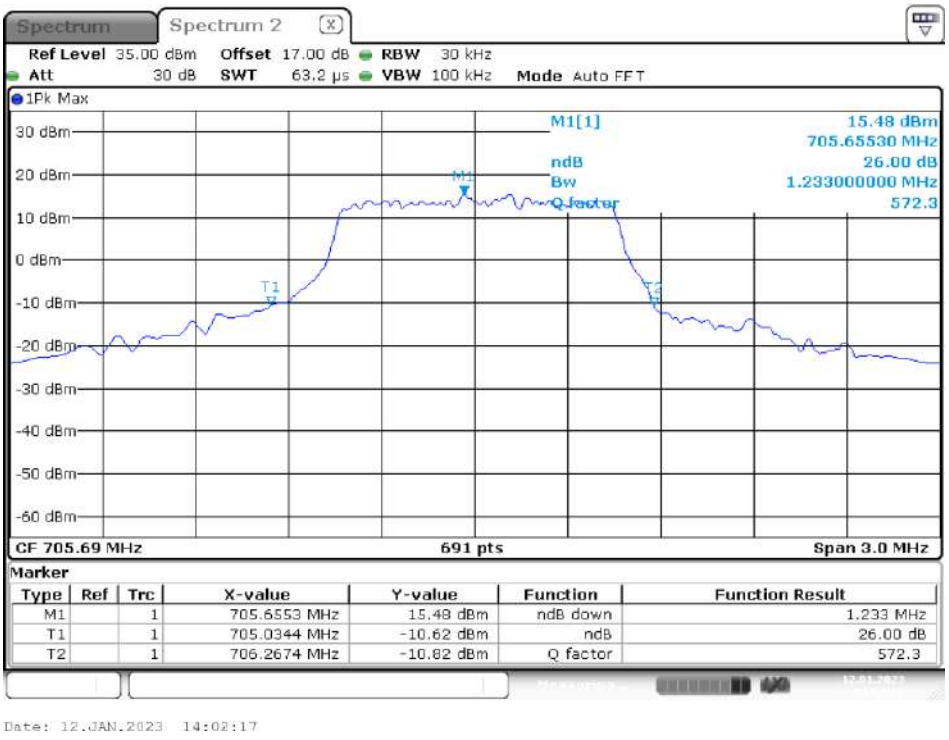




Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

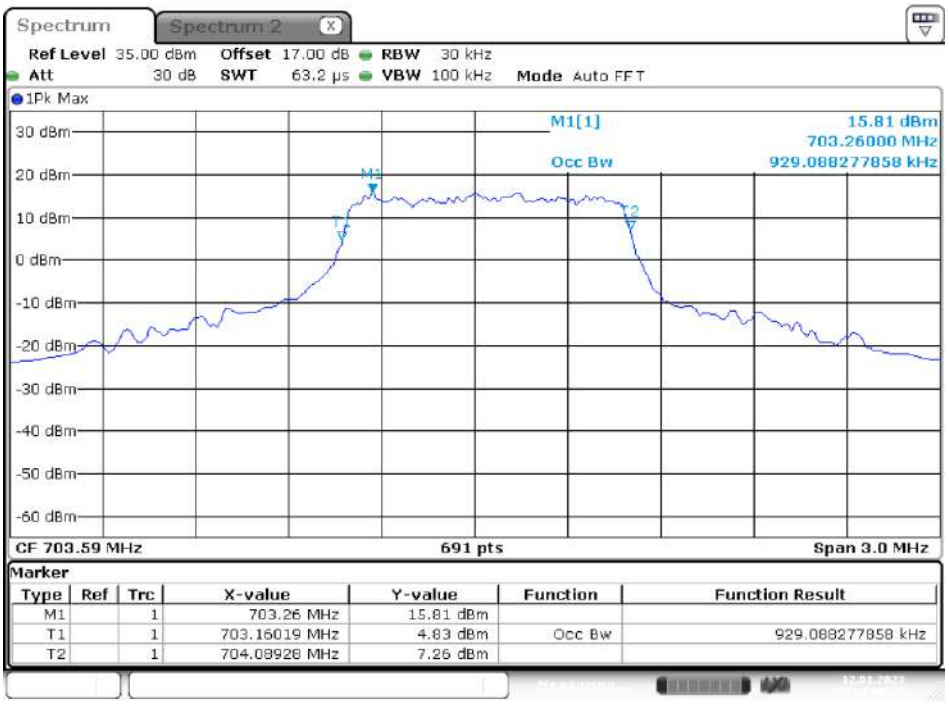
16-QAM (5.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel



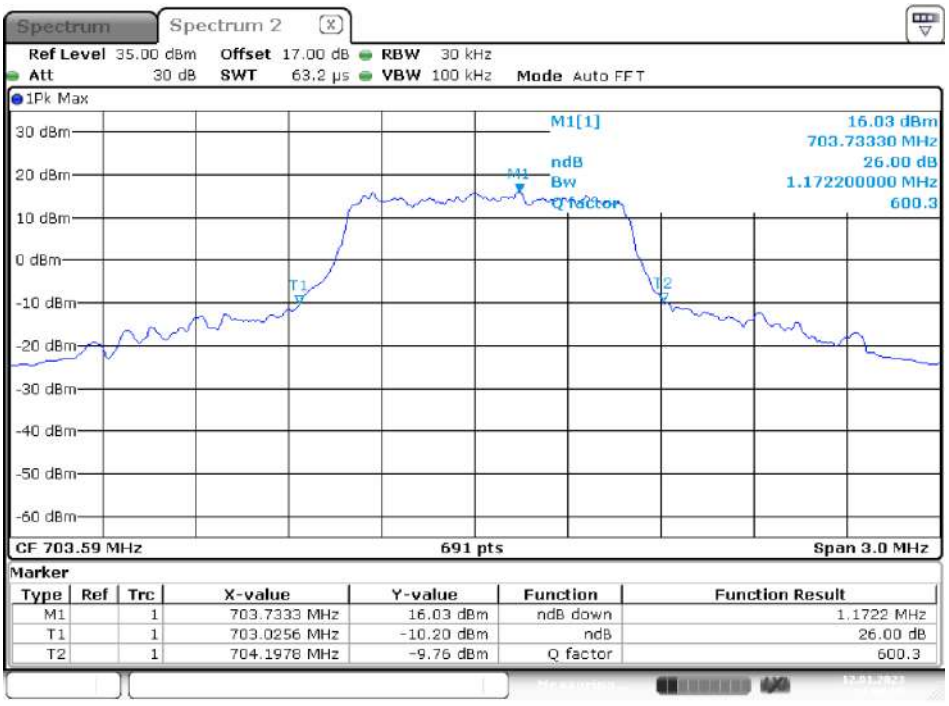


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

16-QAM (10.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel



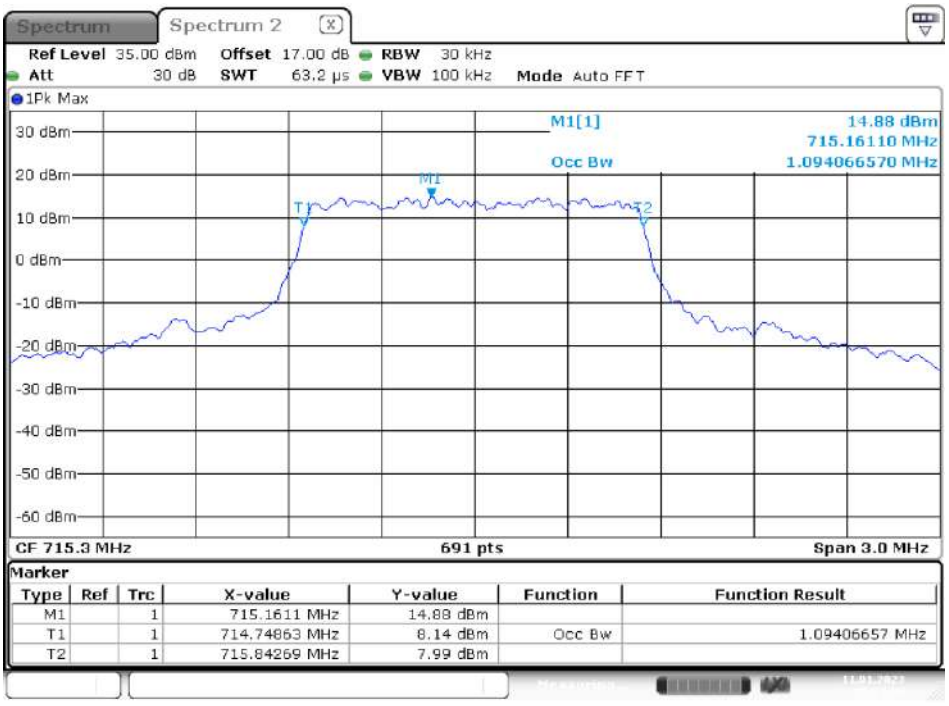
Date: 12.JAN.2023 14:09:44

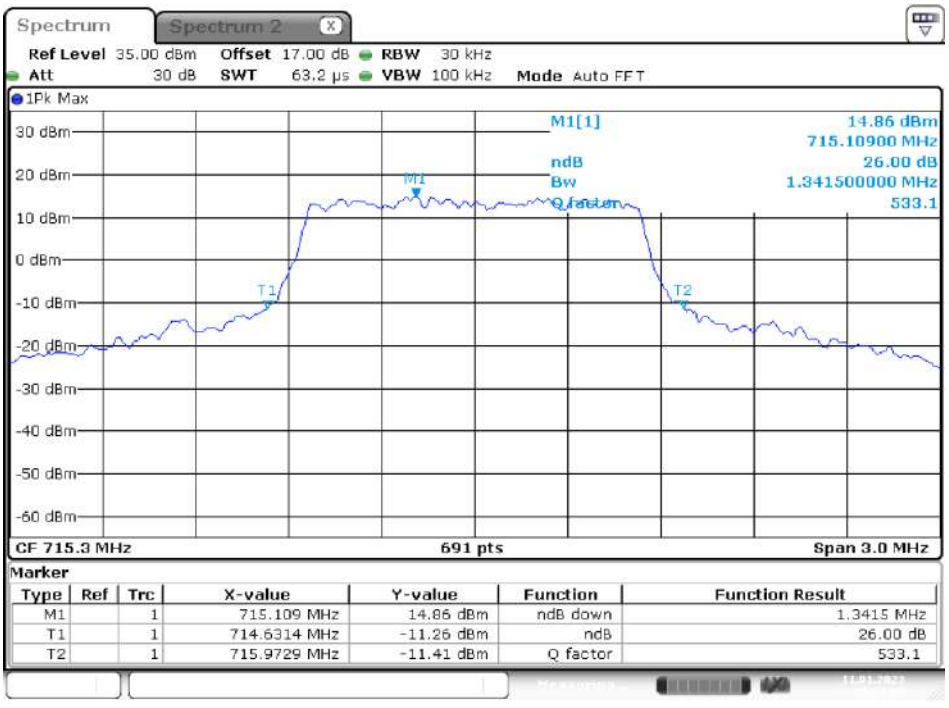


Date: 12.JAN.2023 14:09:09

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

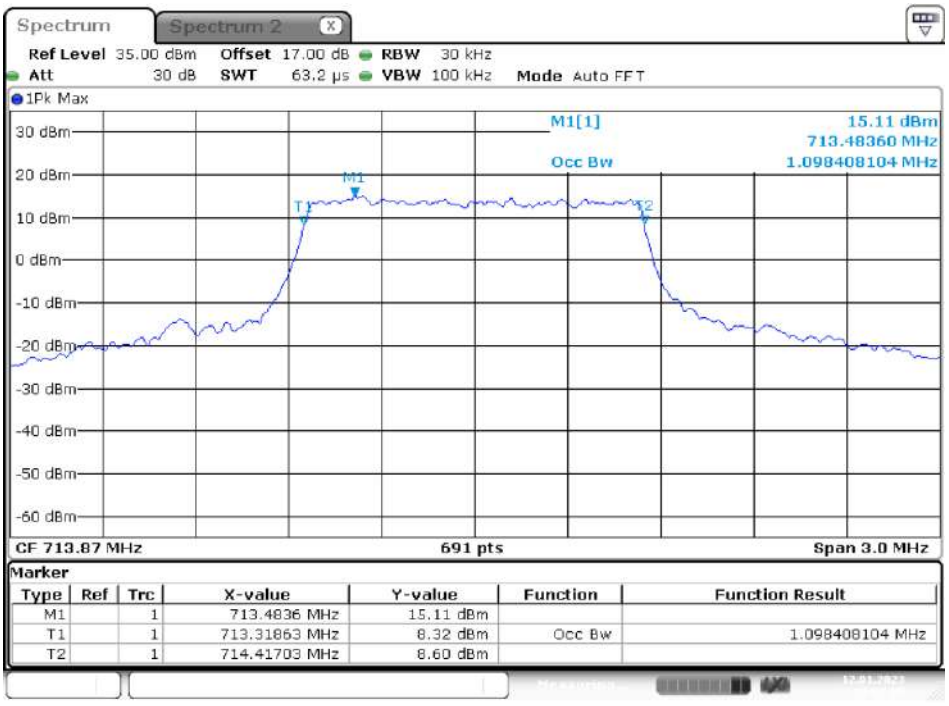
QPSK (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel

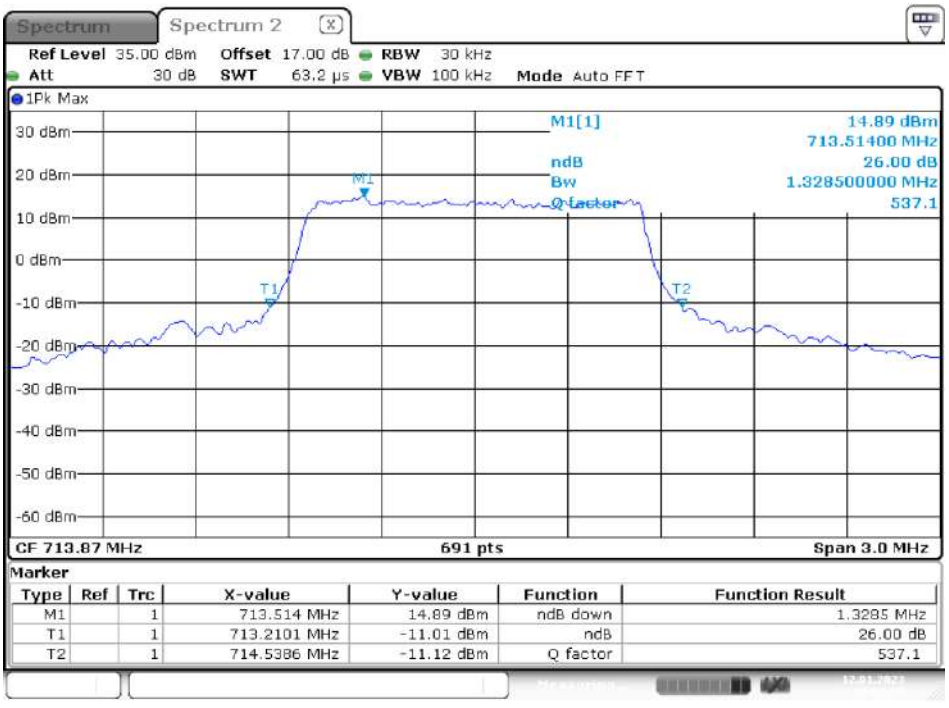




Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

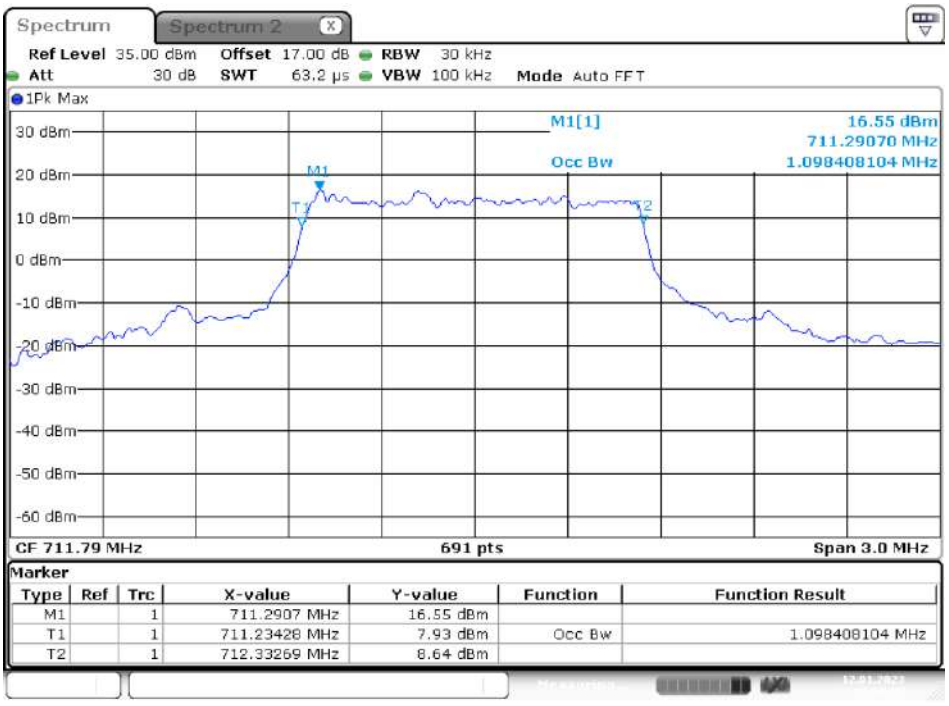
QPSK (3.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel



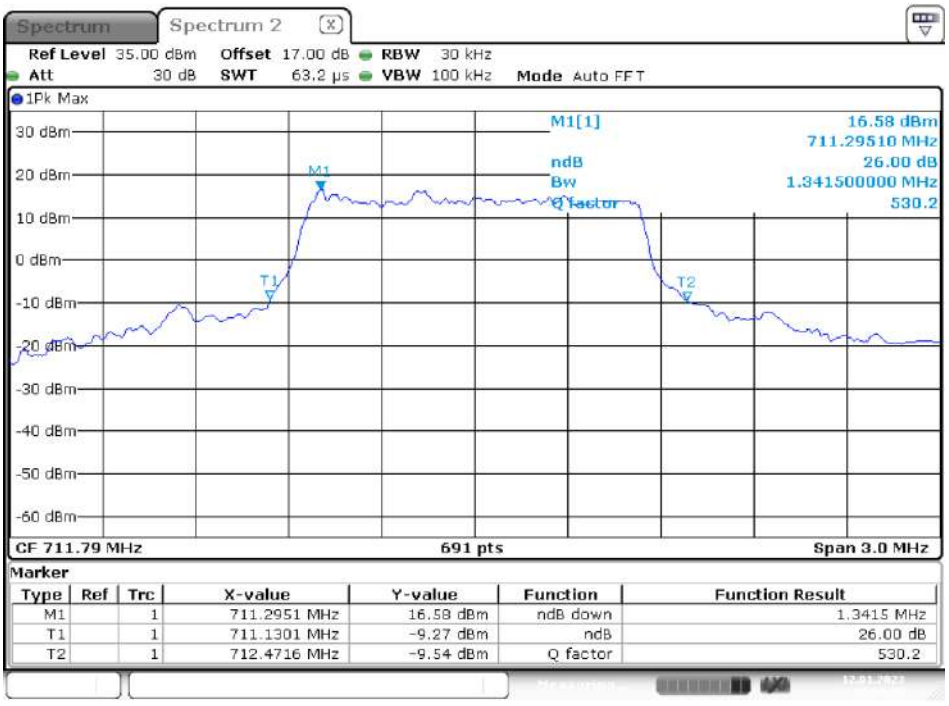


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

QPSK (5.0MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel



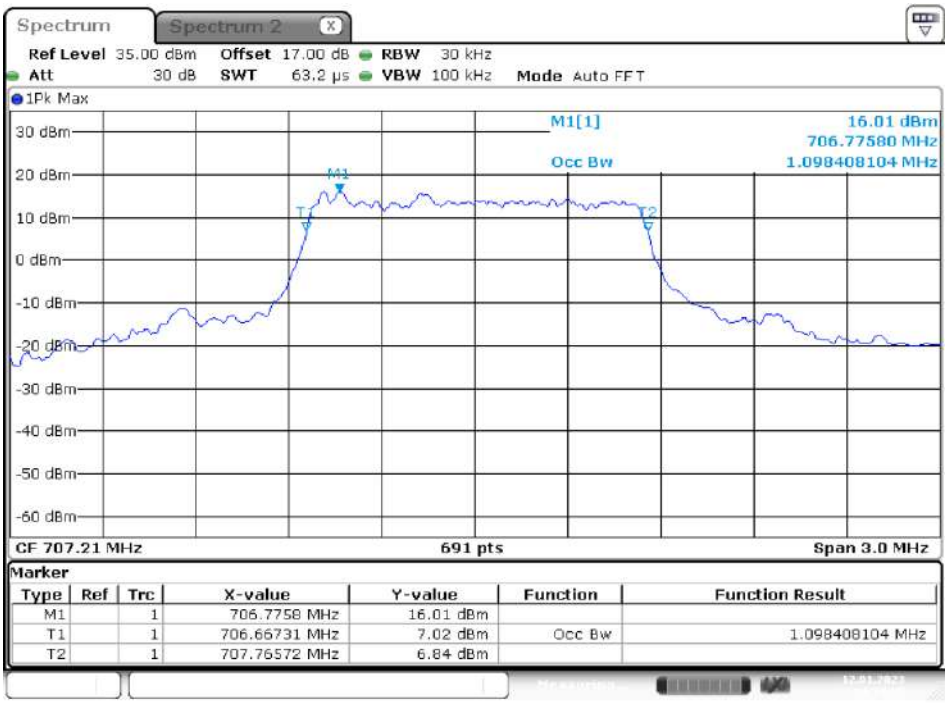
Date: 12.JAN.2023 13:56:53

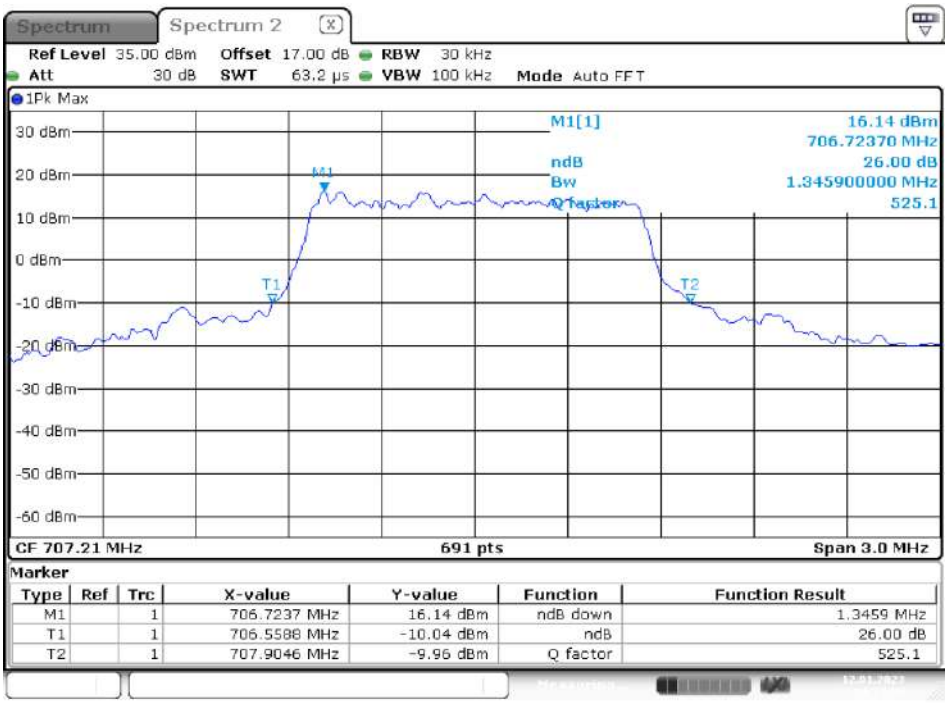


Date: 12.JAN.2023 13:56:22

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

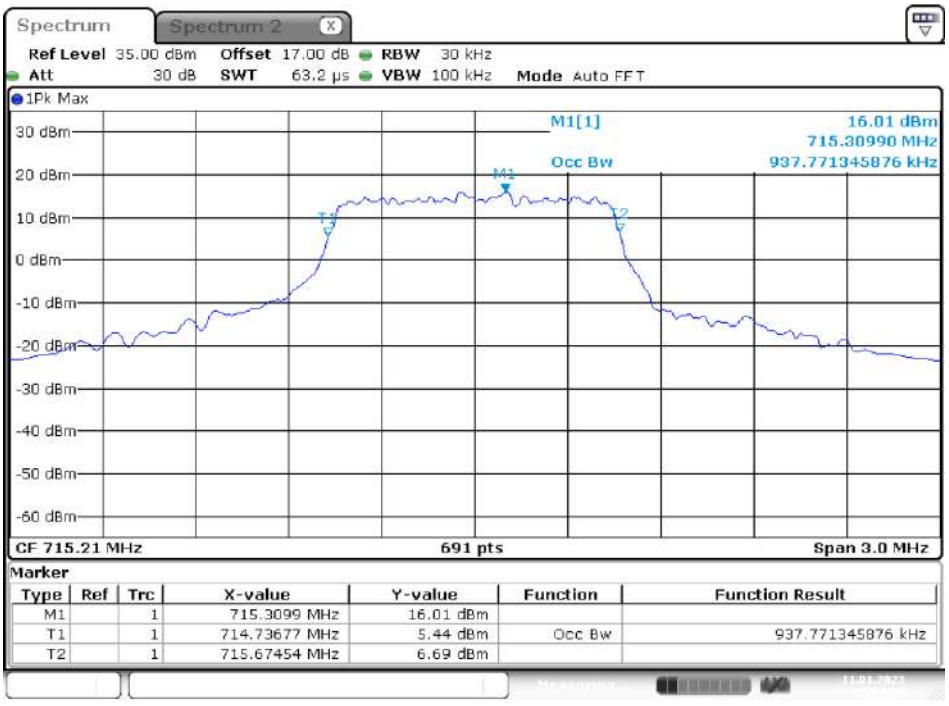
QPSK (10.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel

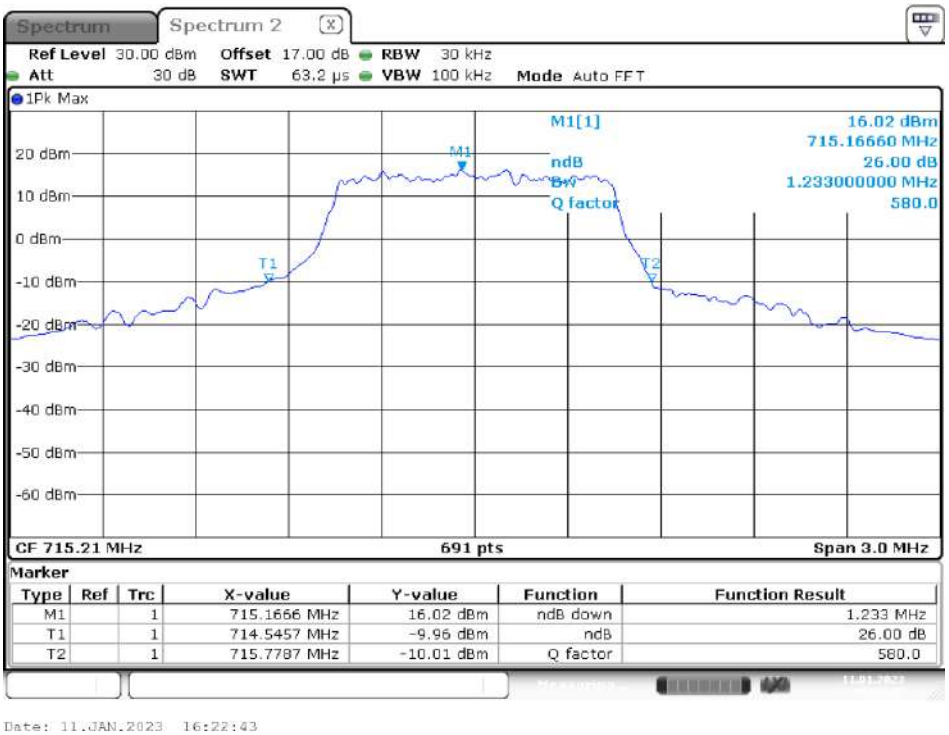




Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

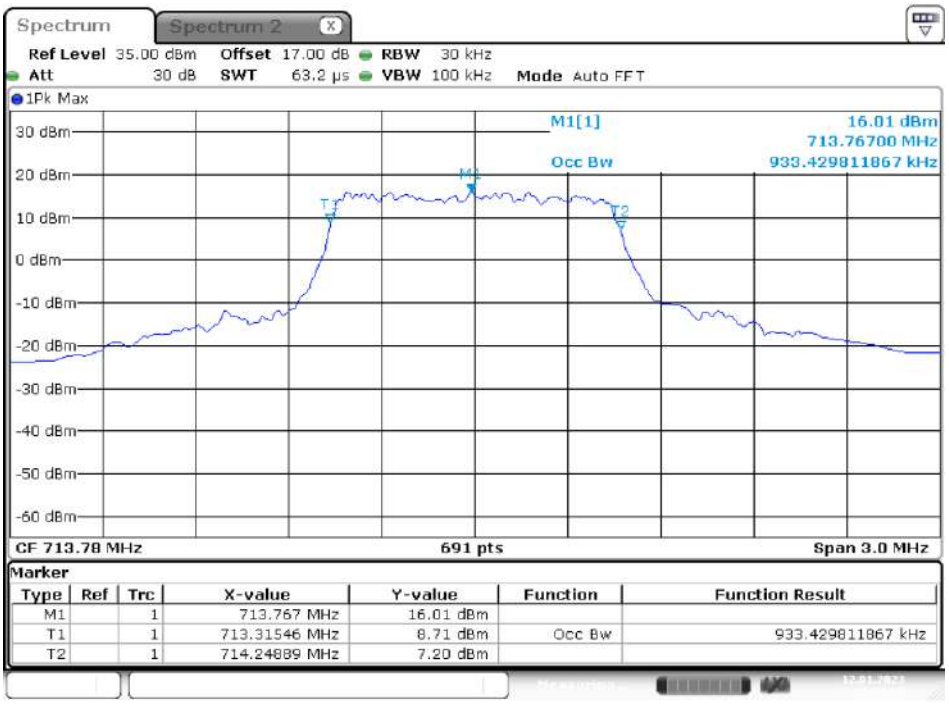
16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel



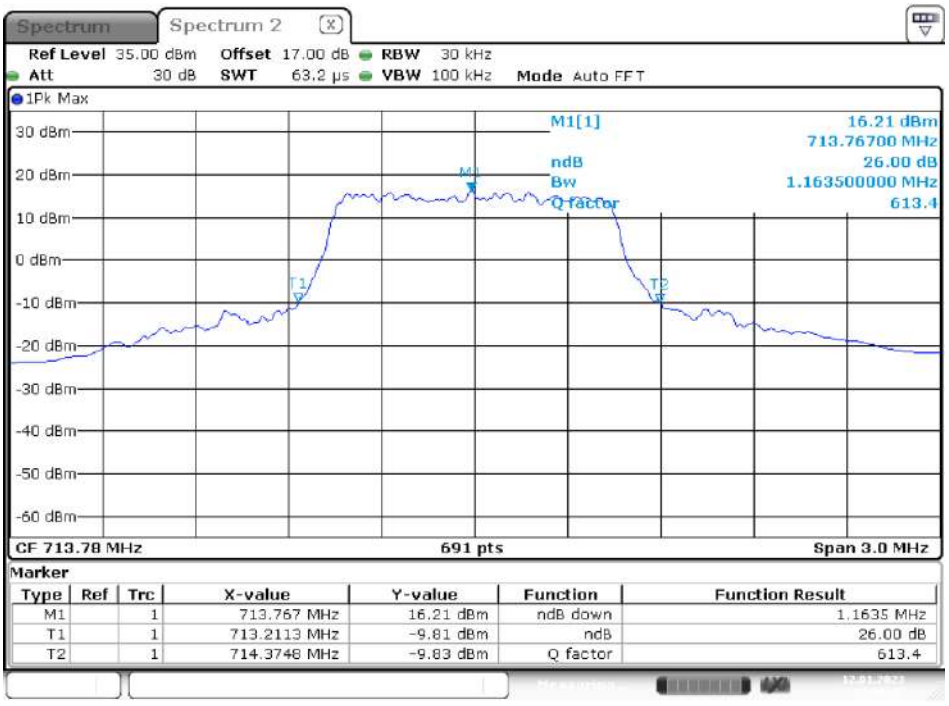


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

16-QAM (3.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel



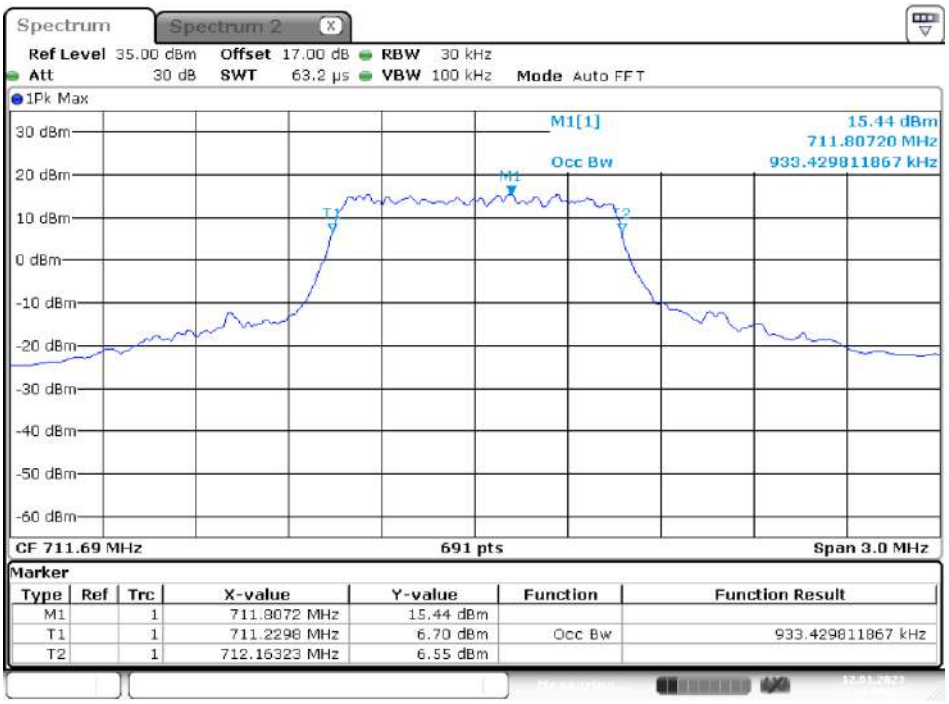
Date: 12.JAN.2023 13:37:15

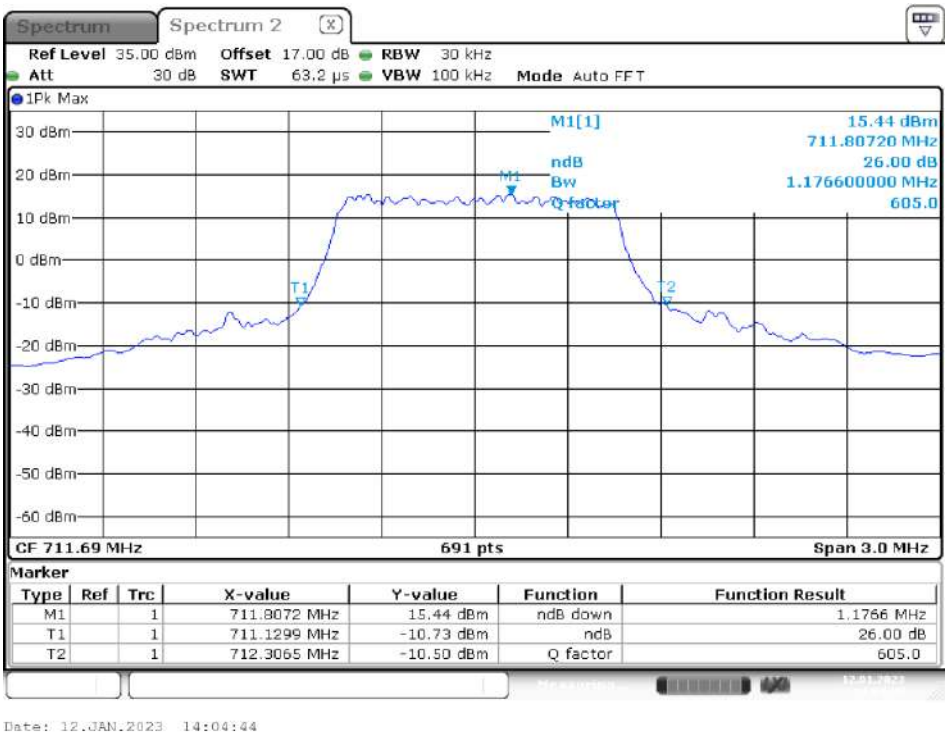


Date: 12.JAN.2023 13:36:47

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

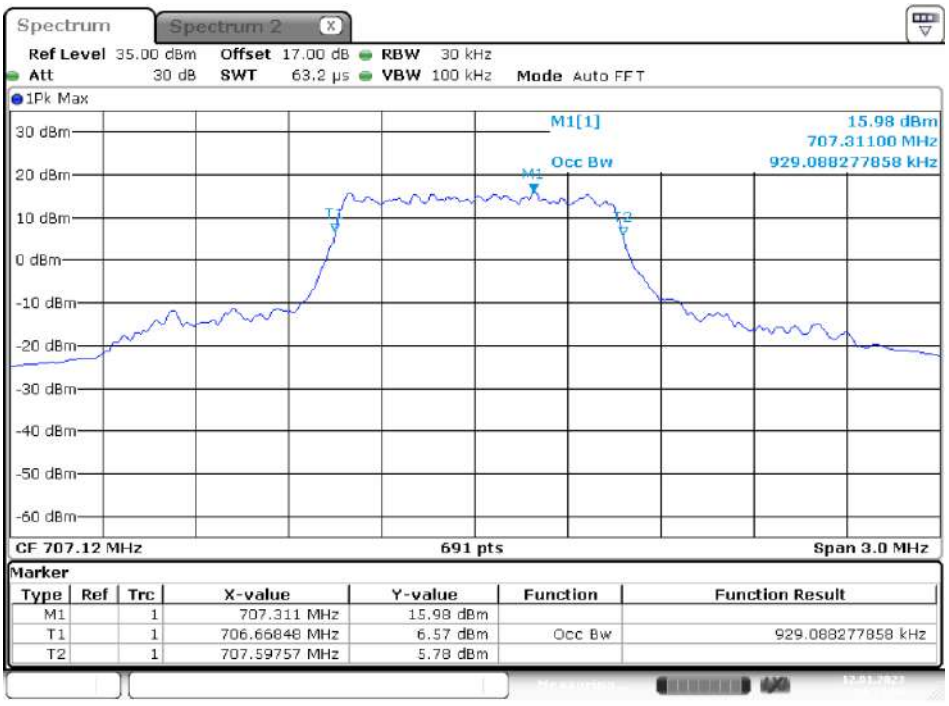
16-QAM (5.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel



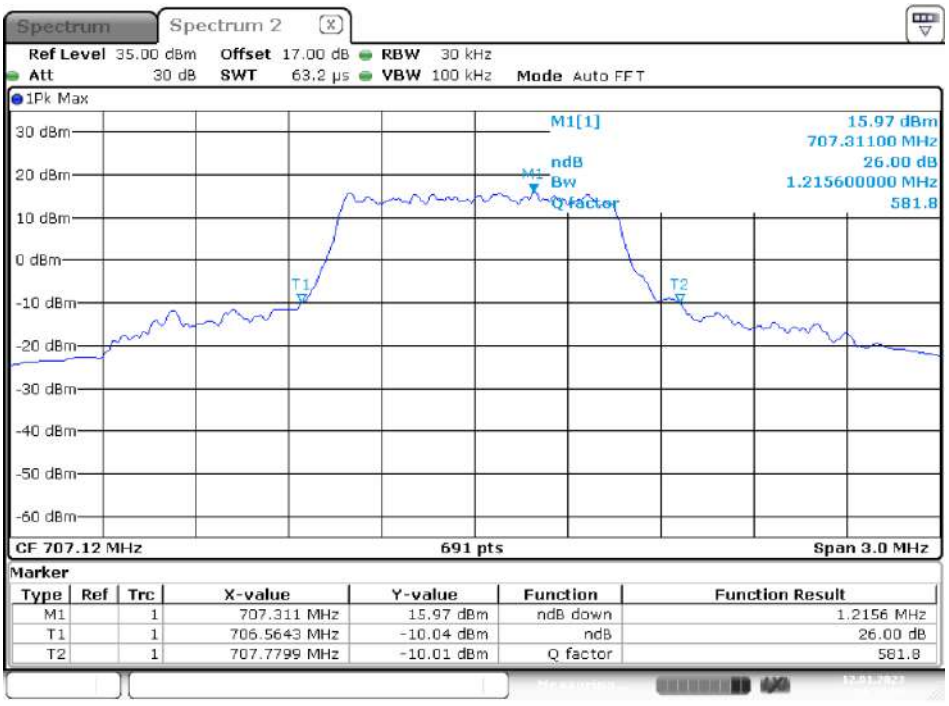


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

16-QAM (10.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel



Date: 12.JAN.2023 14:11:54

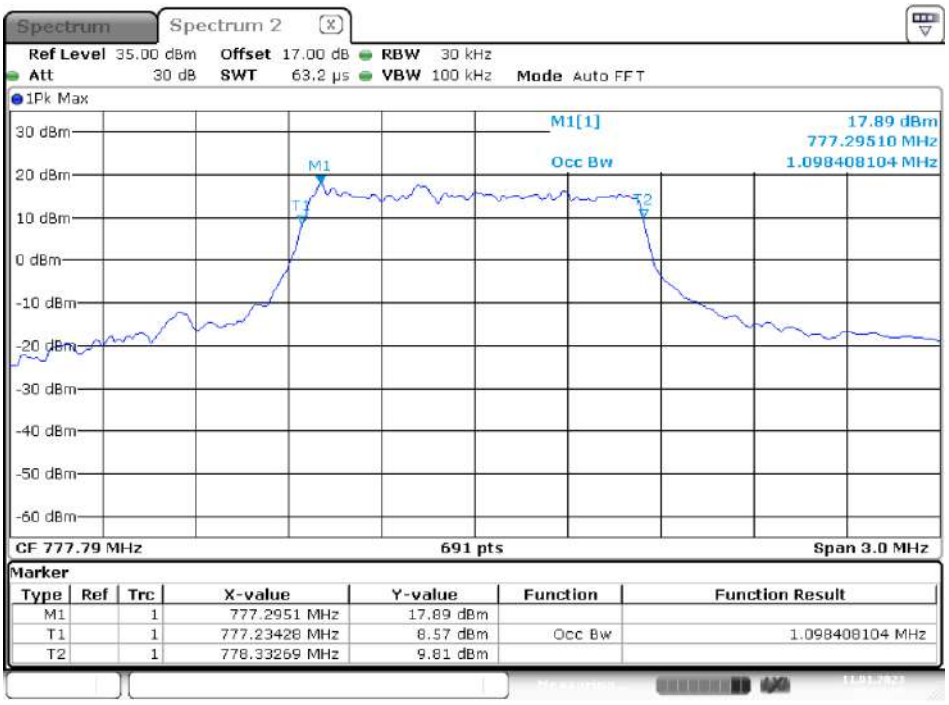


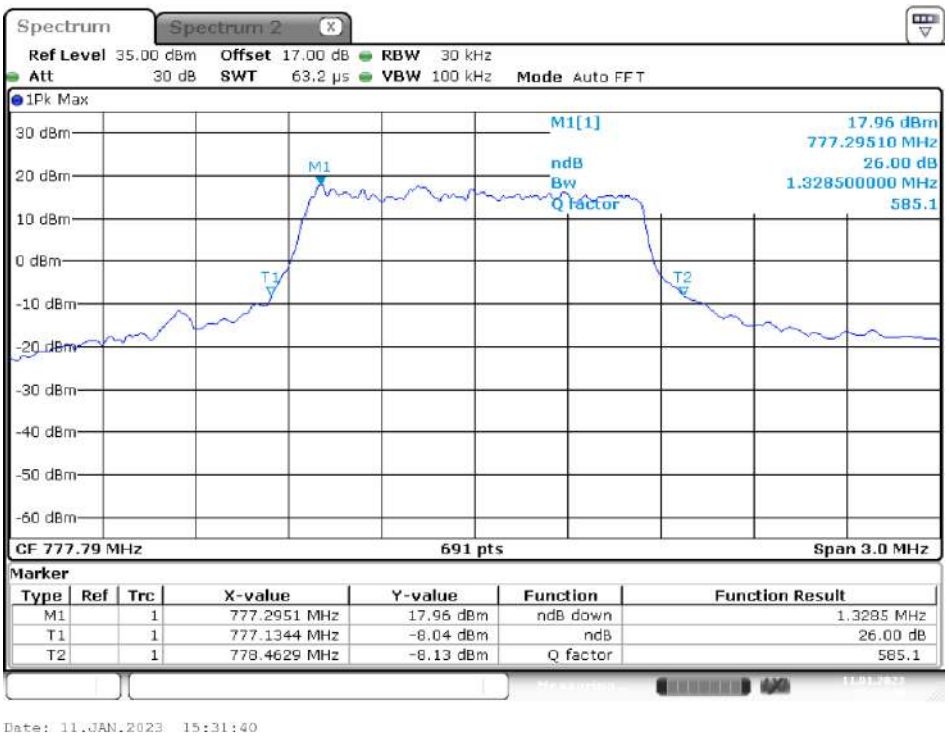
Date: 12.JAN.2023 14:12:24

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

LTE Band 13

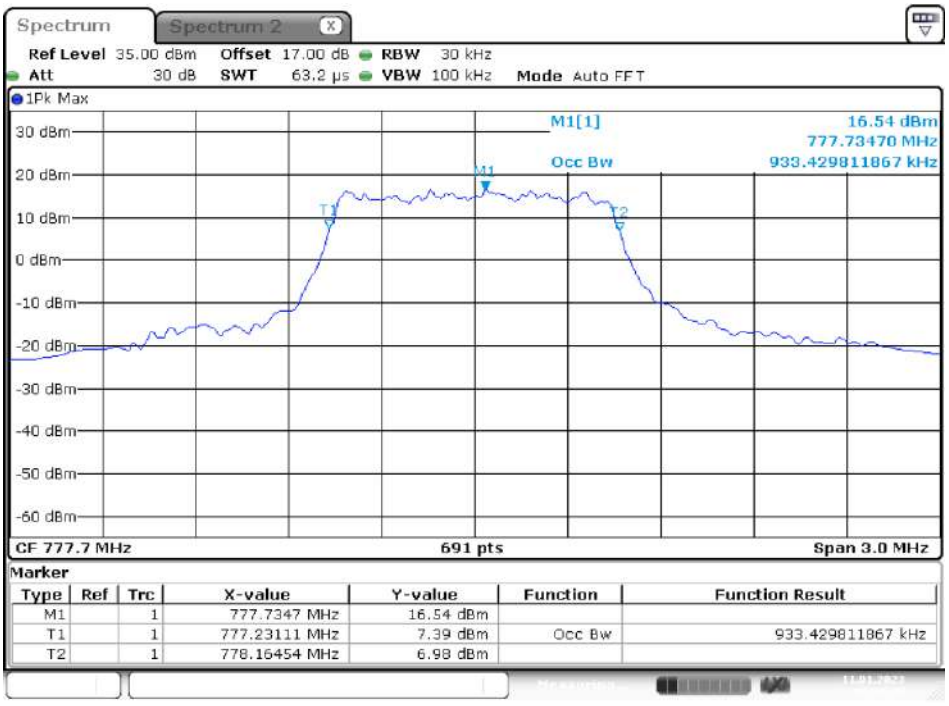
QPSK (5.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel

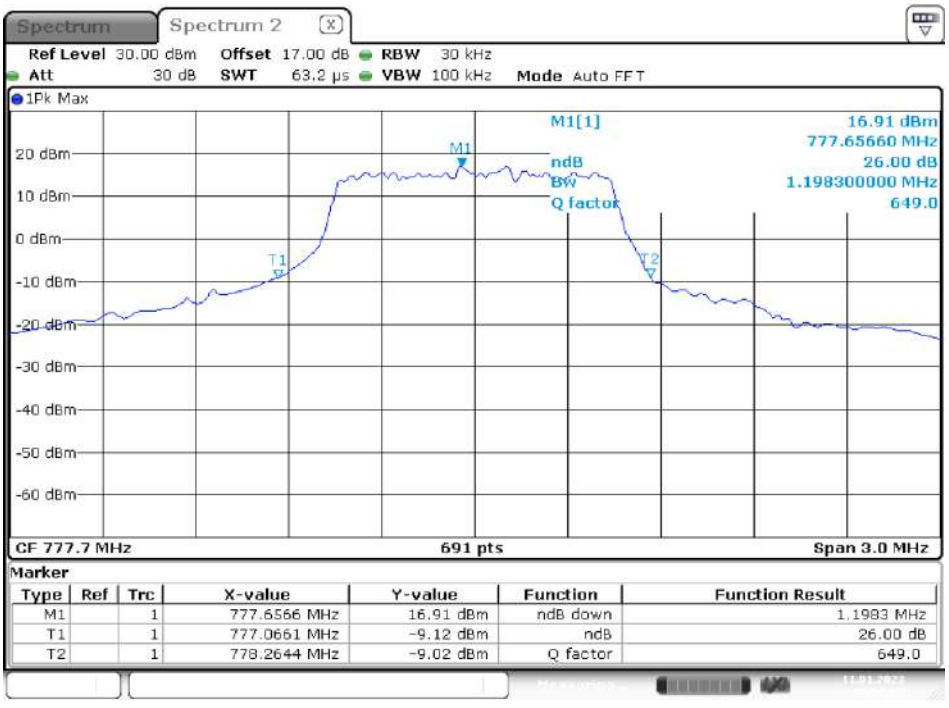




Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

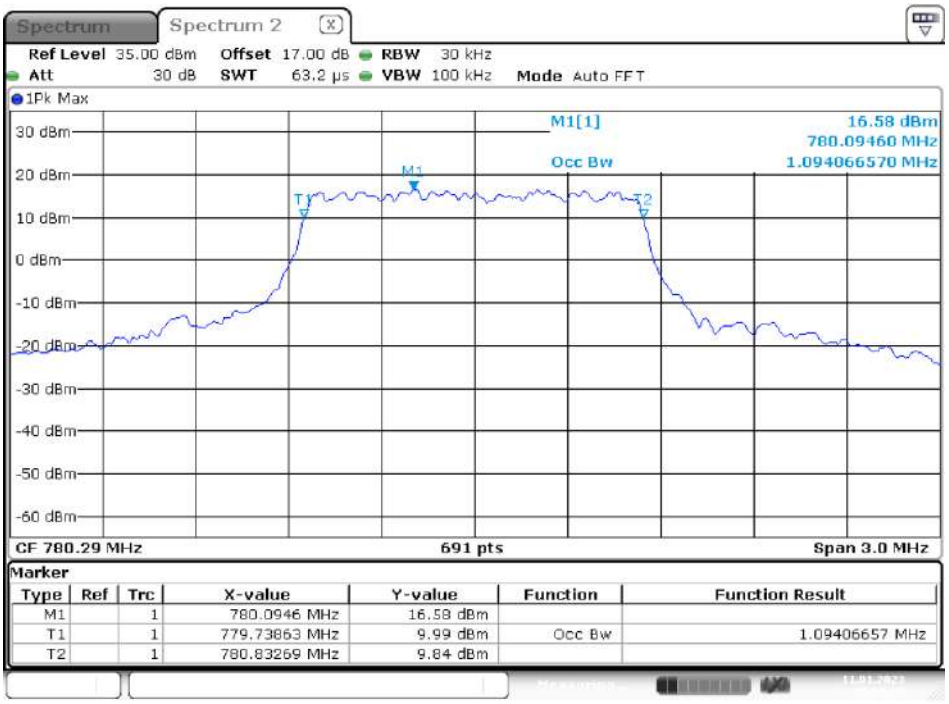
16-QAM (5.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel

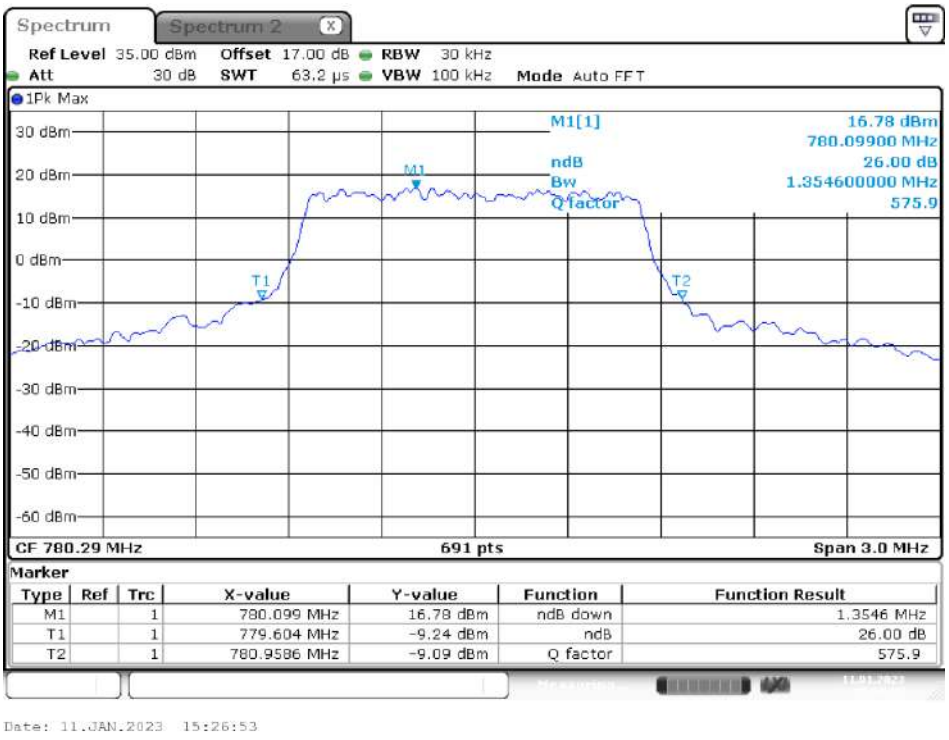




Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

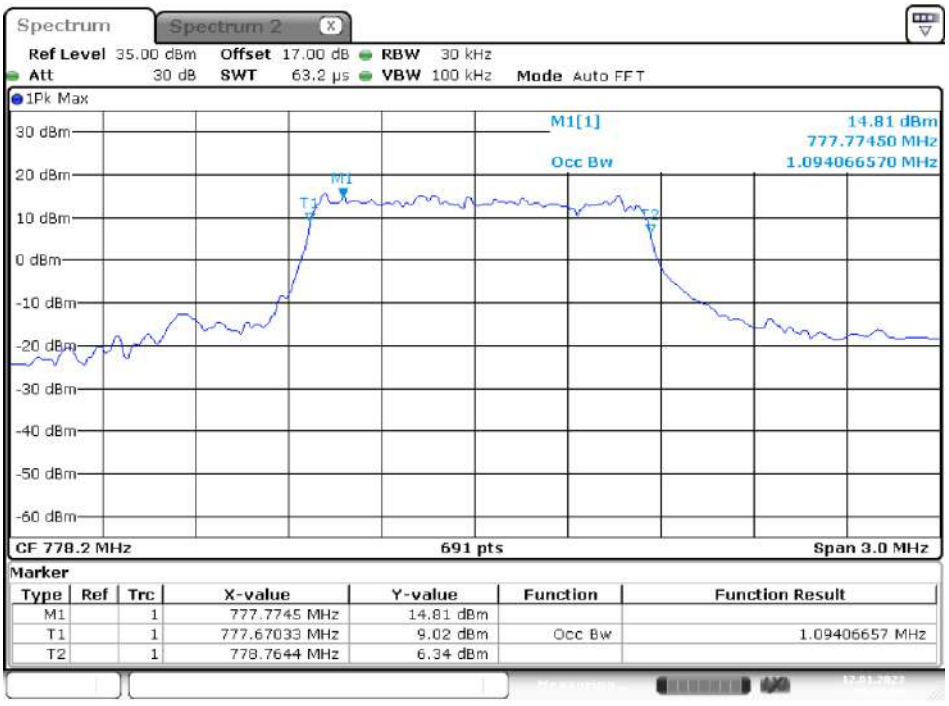
QPSK (5.0MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel

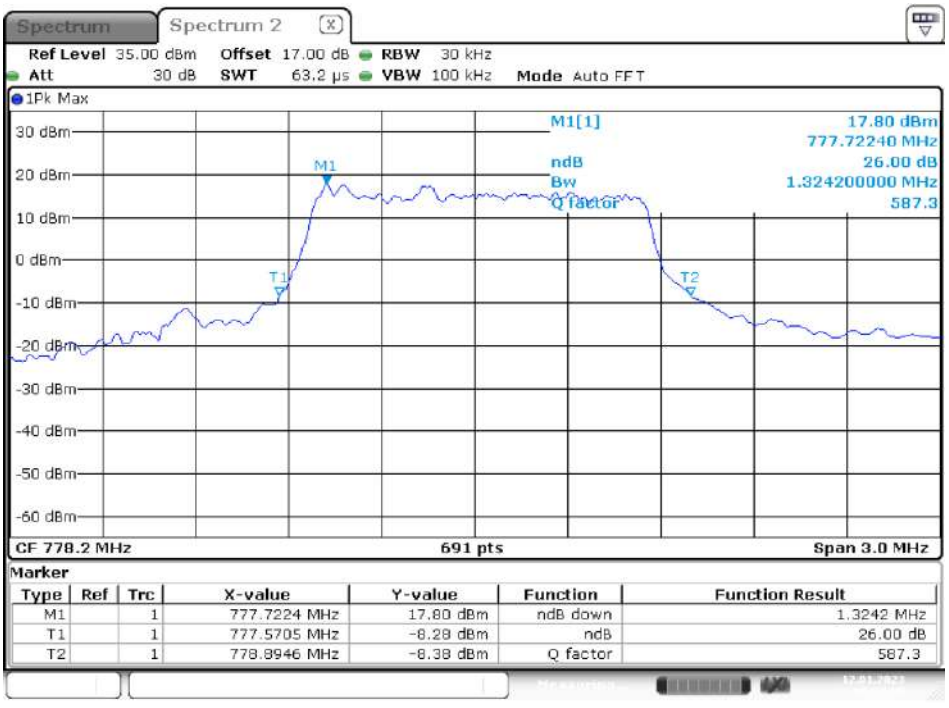




Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

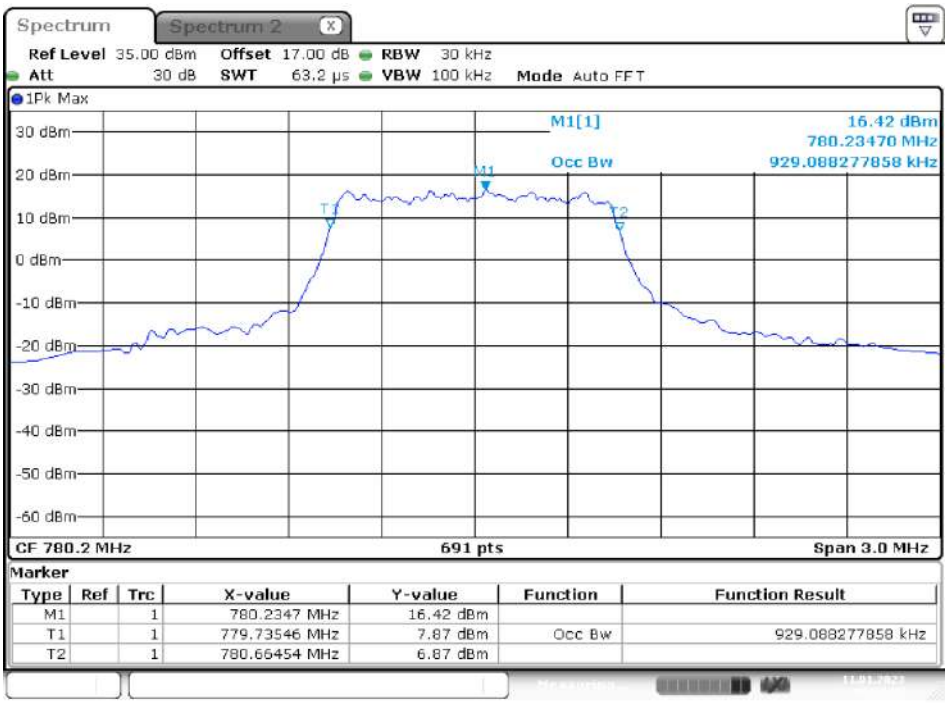
QPSK (10.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel





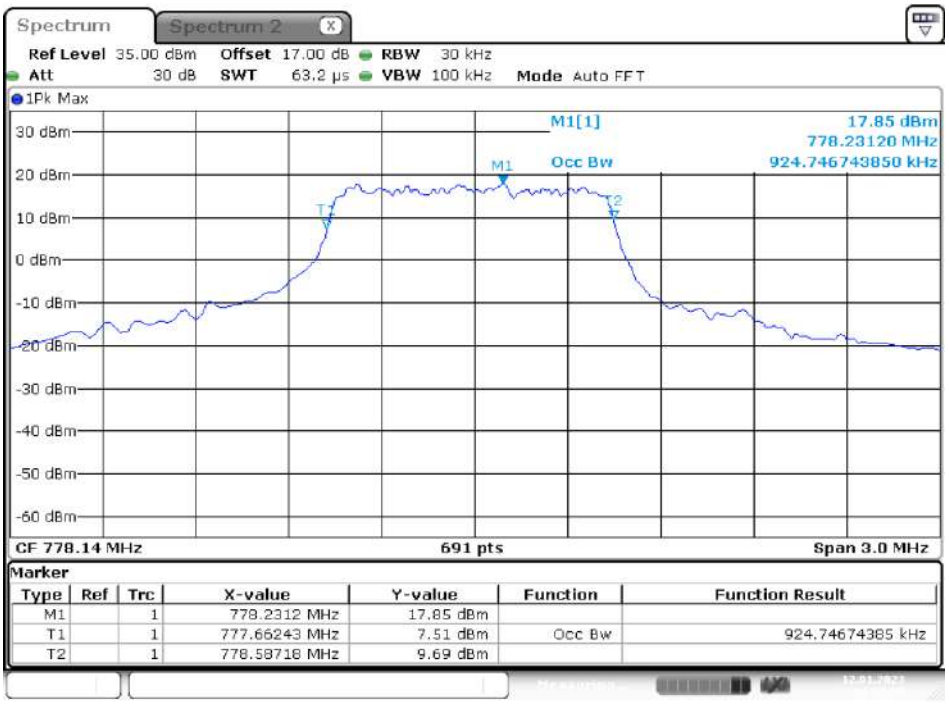
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

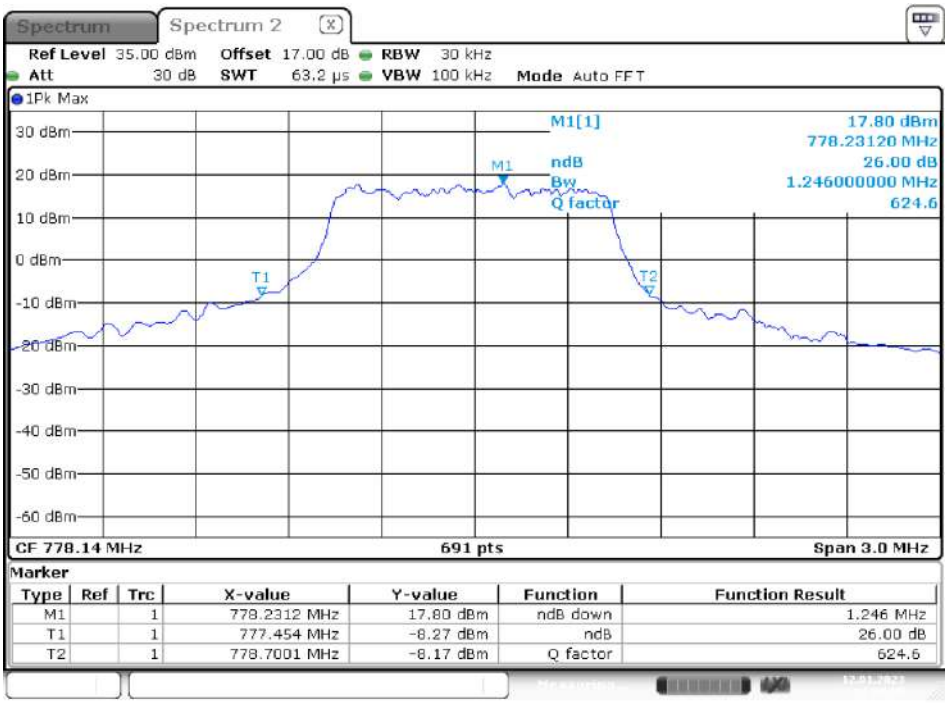
16-QAM (5.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel



Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

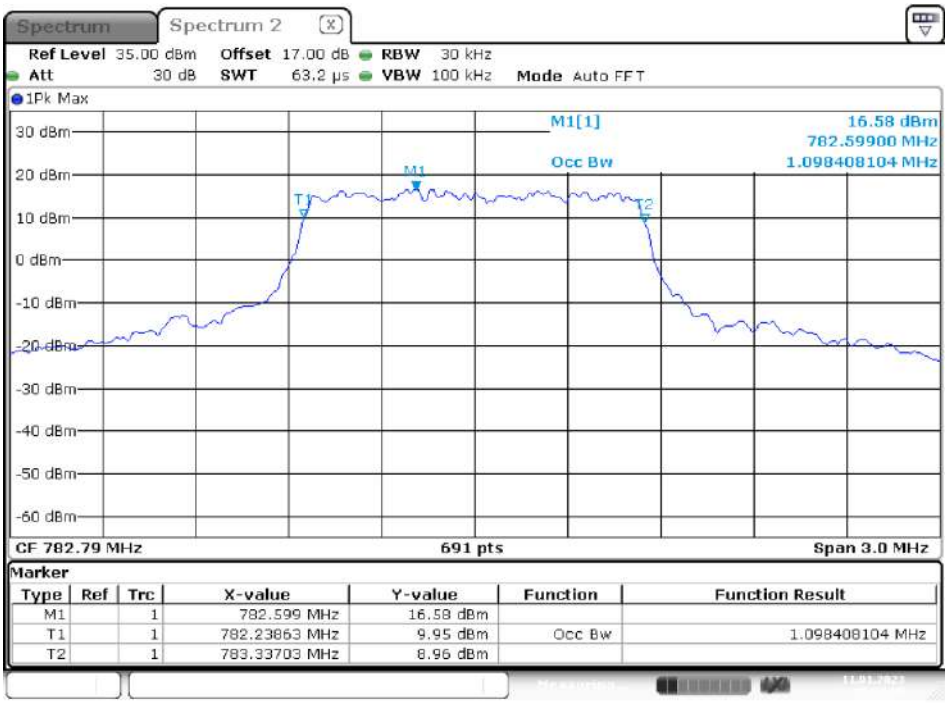
16-QAM (10.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel

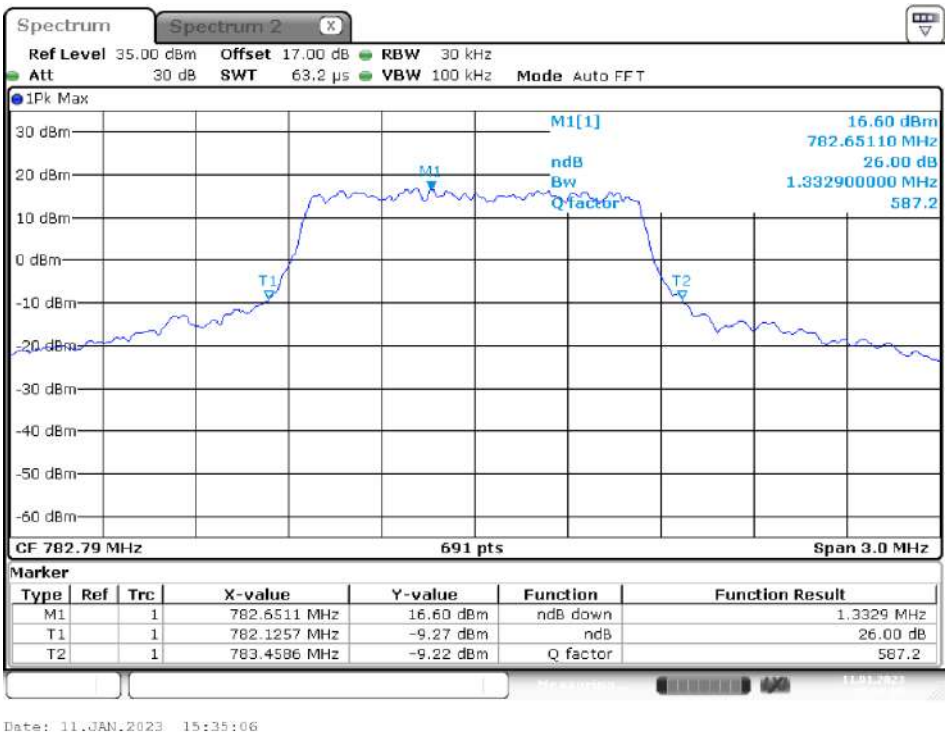




Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

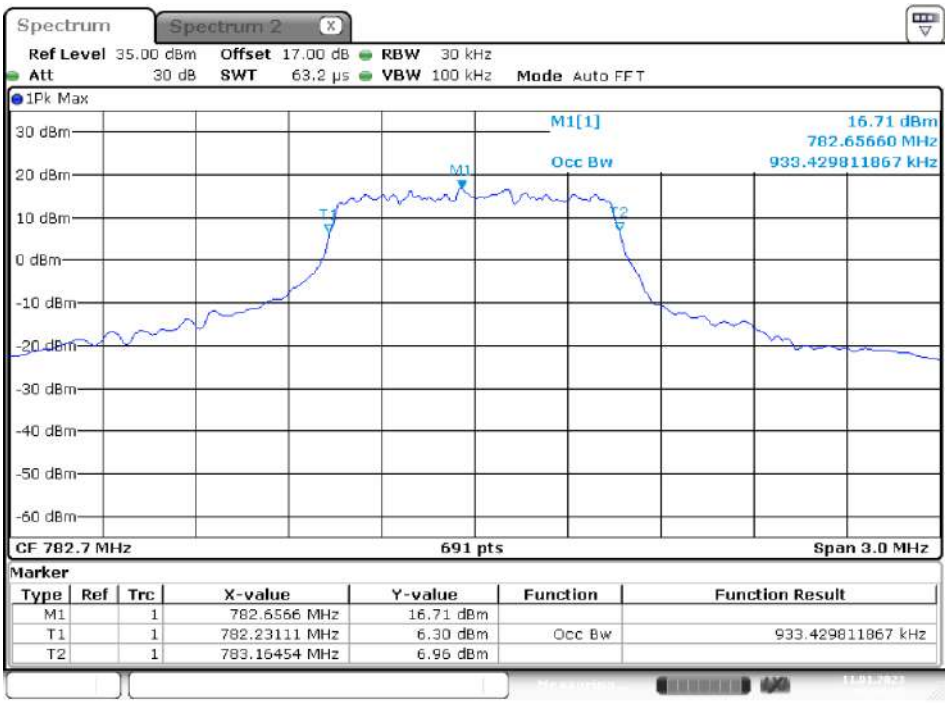
QPSK (5.0MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel

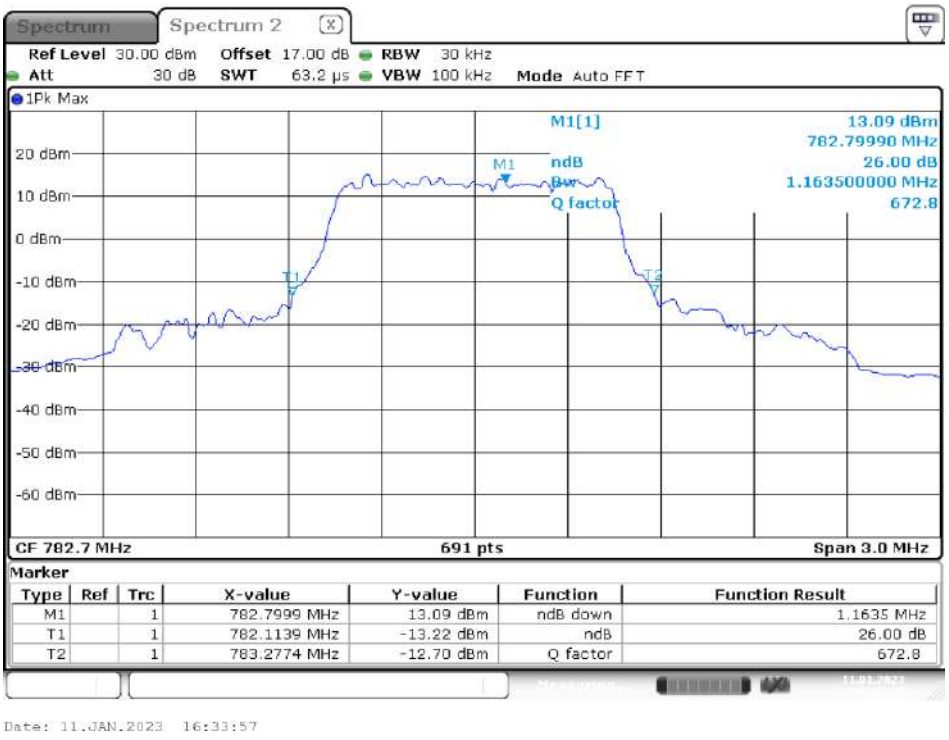




Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

16-QAM (5.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel





Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

Cellular Band

Mode	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
GPRS	824.2	0.241	0.305
	836.6	0.243	0.315
	848.8	0.241	0.315

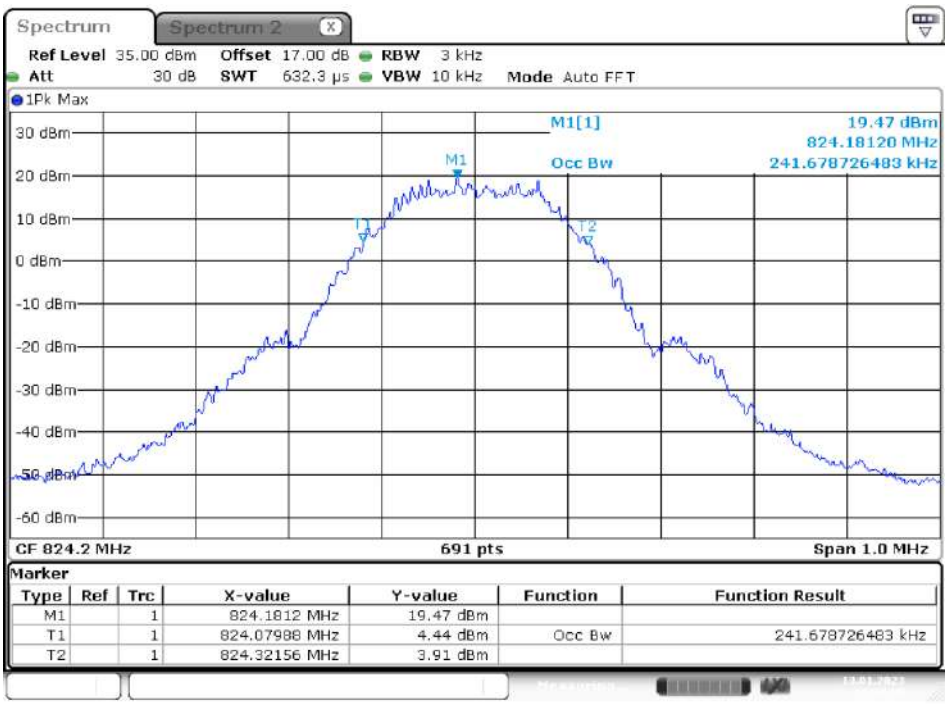
PCS Band

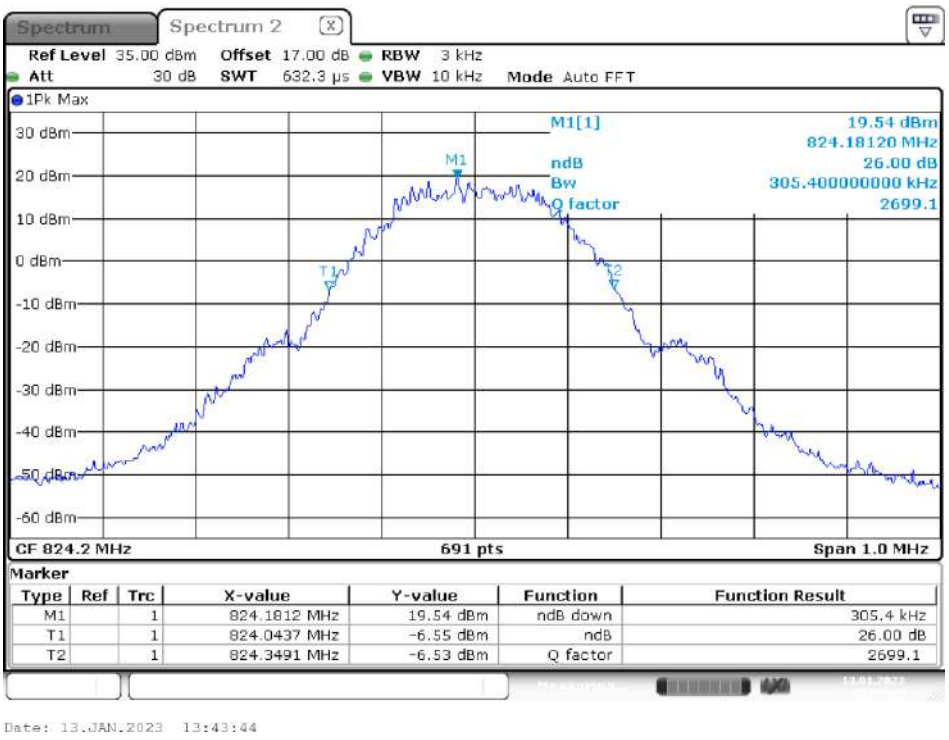
Mode	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
GPRS	1850.2	0.240	0.312
	1880.0	0.241	0.314
	1909.8	0.240	0.312

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

Cellular Band

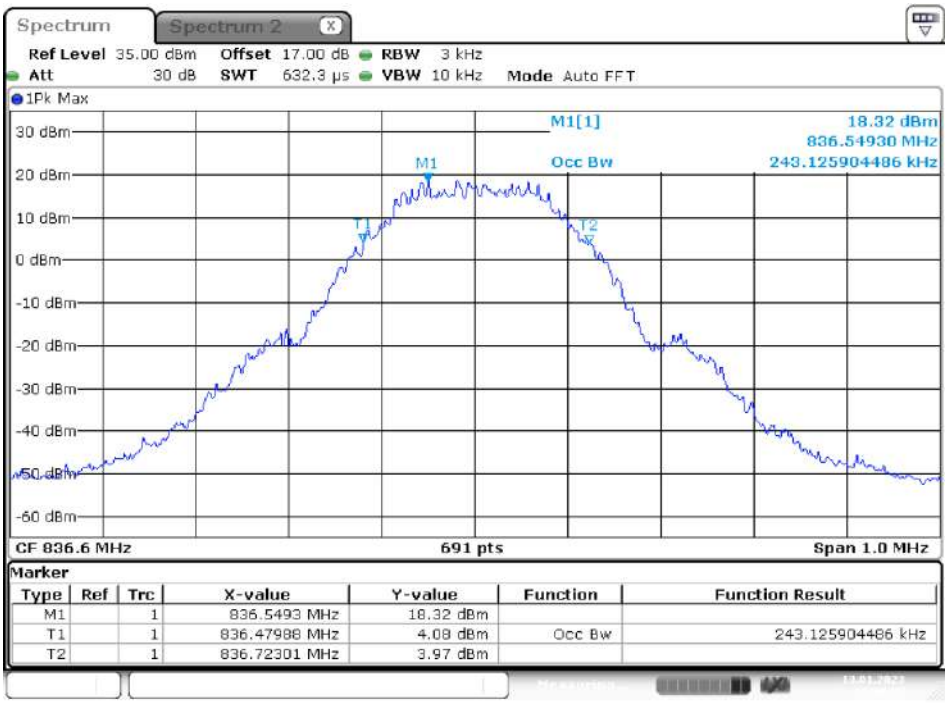
99% Occupied & 26 dB Emissions Bandwidth for GPRS Low channel

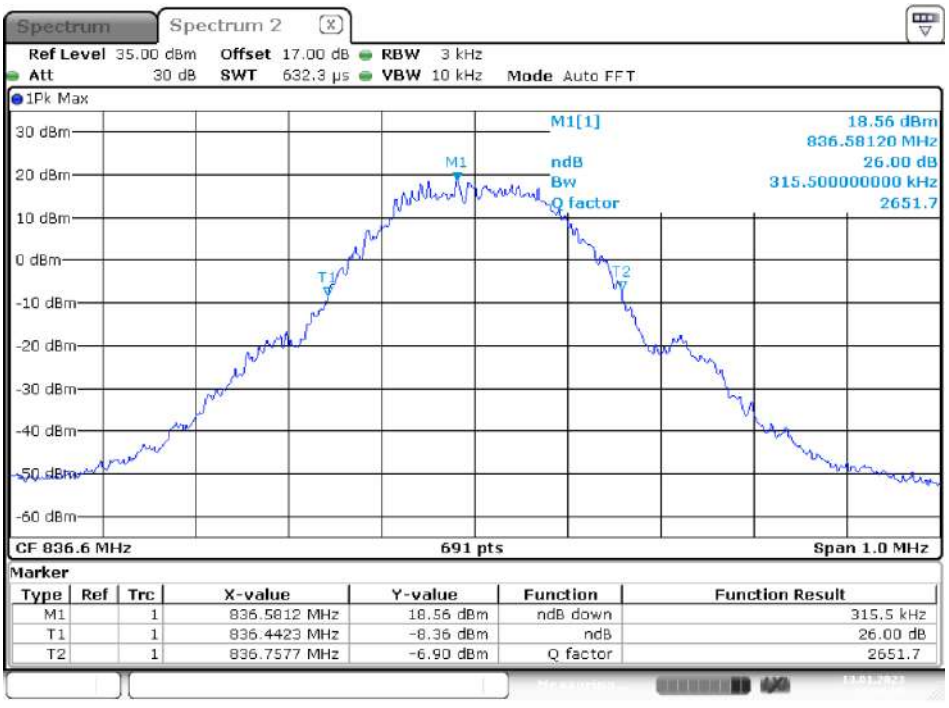




Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

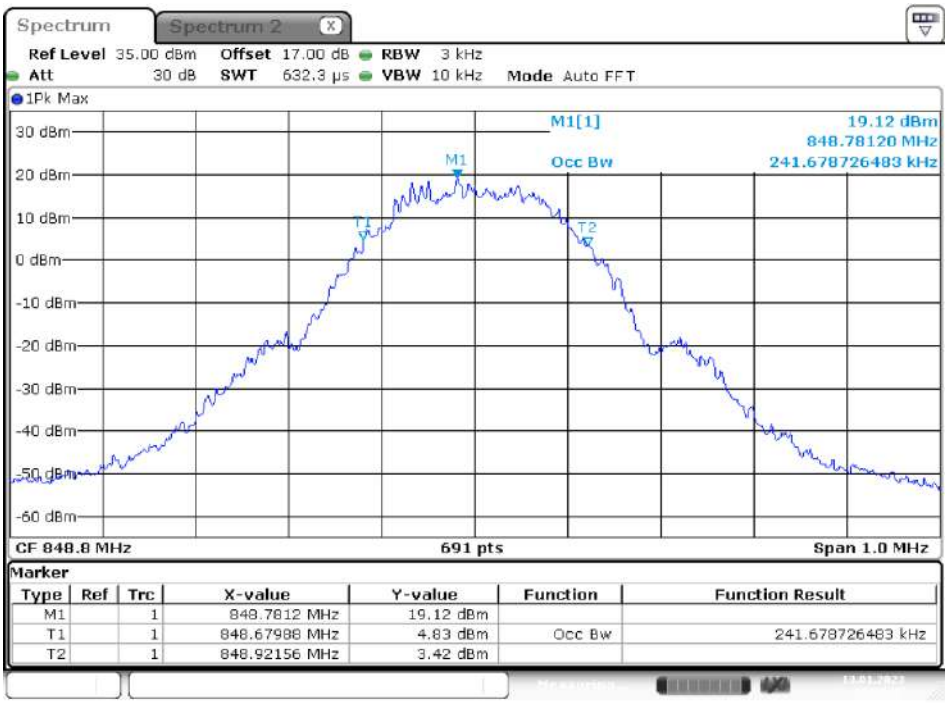
99% Occupied & 26 dB Emissions Bandwidth for GPRS Middle channel



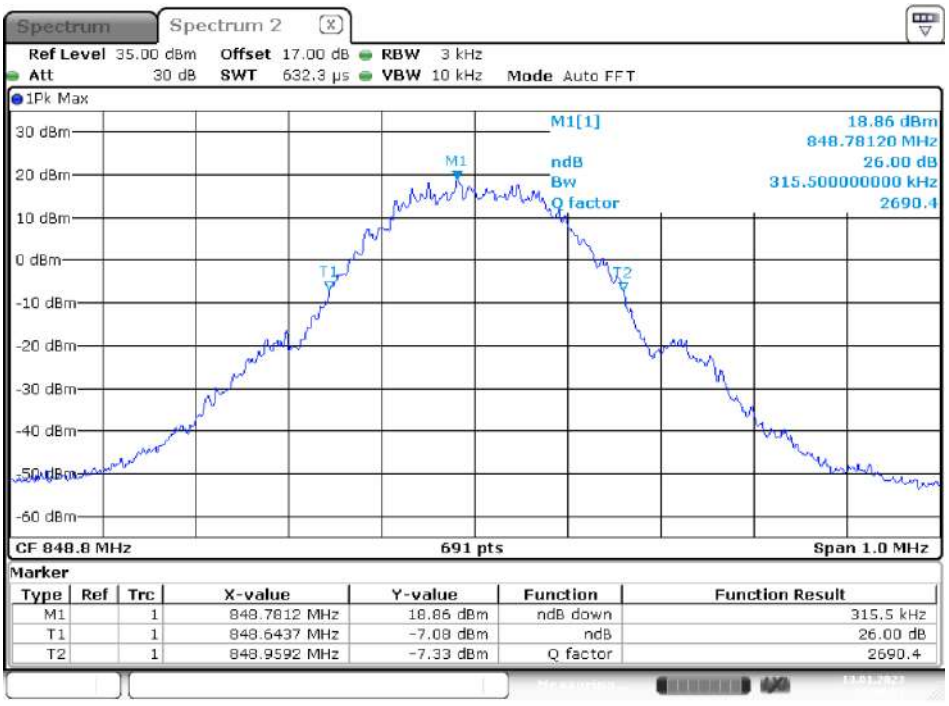


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

99% Occupied & 26 dB Emissions Bandwidth for GPRS High channel



Date: 13.JAN.2023 13:47:42

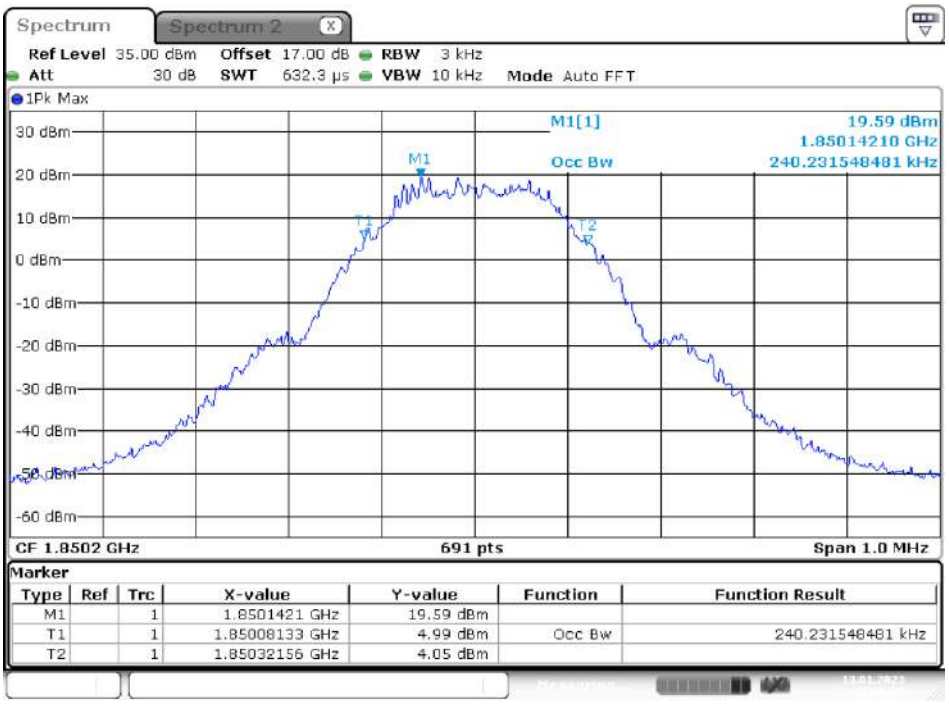


Date: 13.JAN.2023 13:48:02

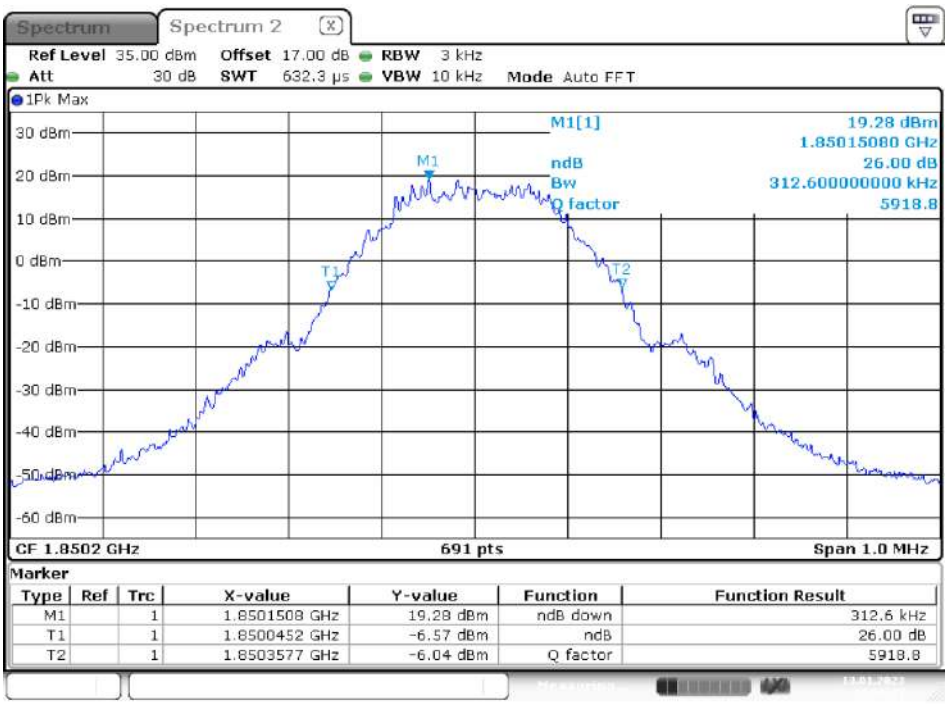
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

PCS Band

99% Occupied & 26 dB Emissions Bandwidth for GPRS Low channel



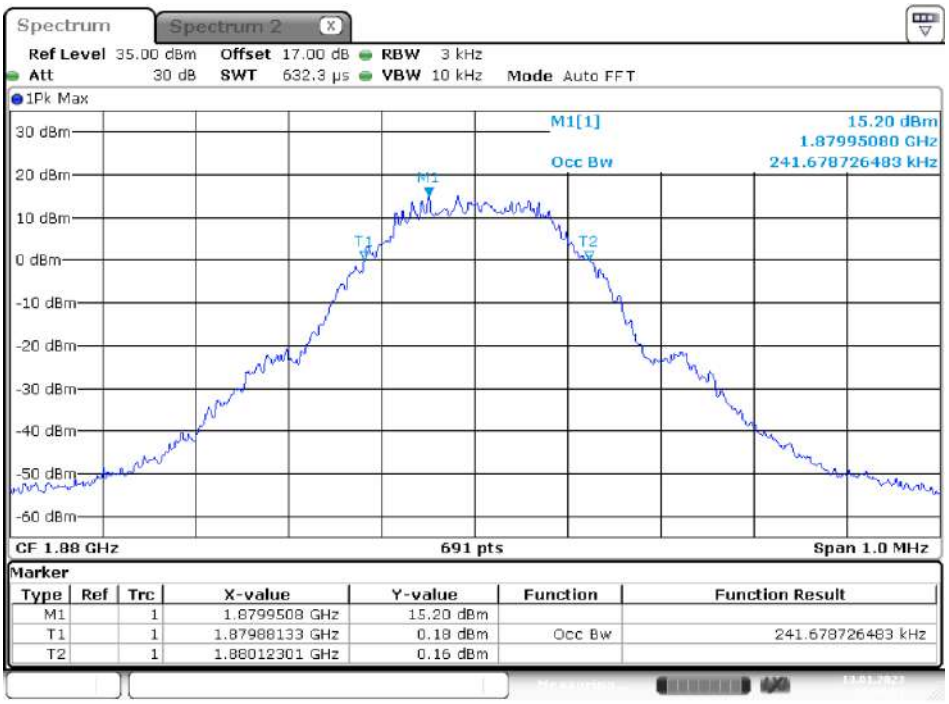
Date: 13.JAN.2023 13:56:20

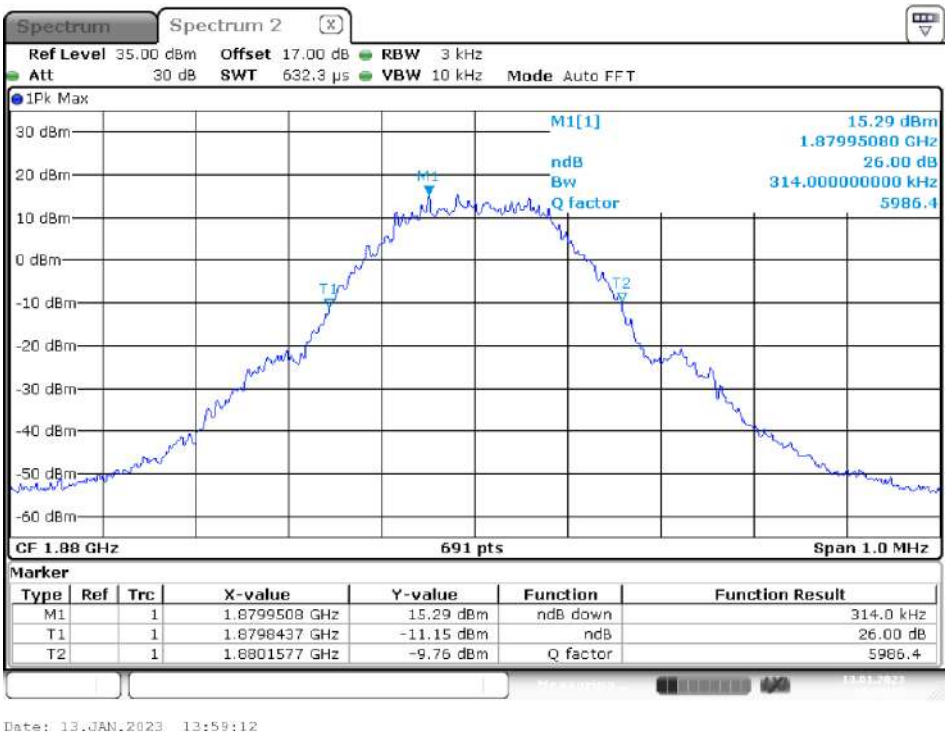


Date: 13.JAN.2023 13:56:42

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

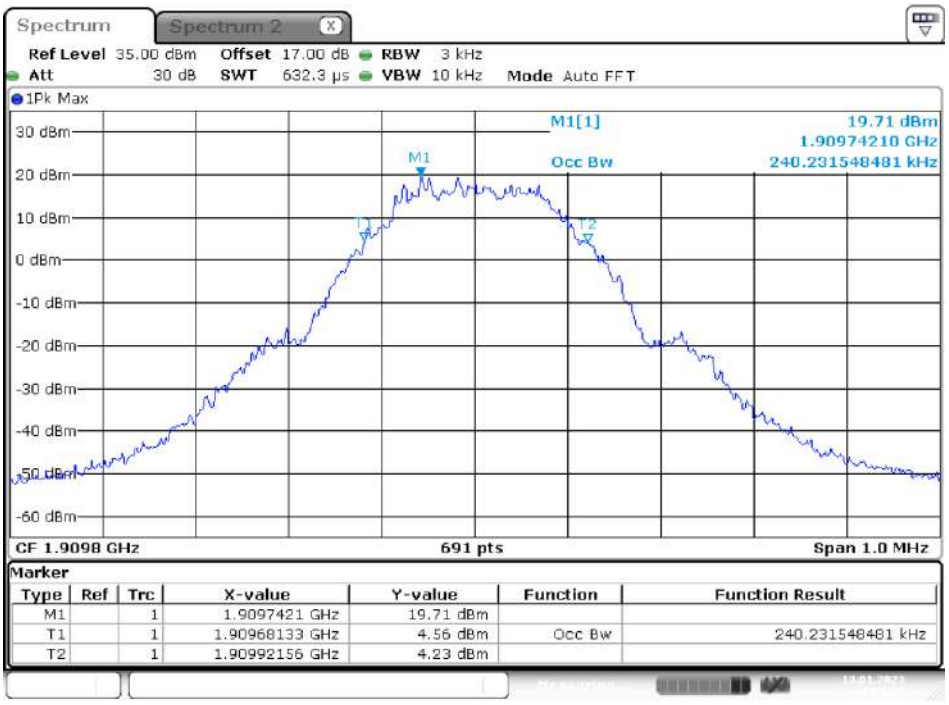
99% Occupied & 26 dB Emissions Bandwidth for GPRS Middle channel

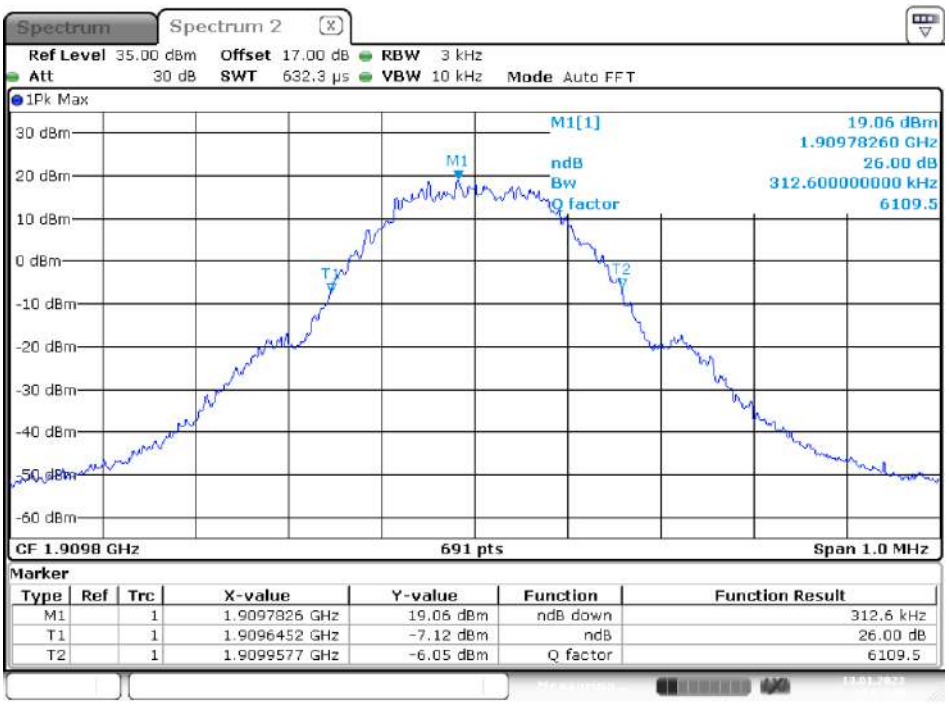




Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

99% Occupied & 26 dB Emissions Bandwidth for GPRS High channel





Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

12. FCC§2.1051, §22.917(a) & §24.238(a) & §27.53 & RSS-130 ISSUE 2 CLAUSE 4.7 & RSS-132 ISSUE 3 CLAUSE 5.5 & RSS-133 ISSUE 6 CLAUSE 6.5 & RSS-139 ISSUE 3 CLAUSE 6.6– Spurious Emissions At Antenna Terminals

12.1 Applicable Standard

FCC § 2.1051, §22.917, § 24.238, § 27.53

IC RSS-130 Issue 2 clause 4.7 RSS-132 Issue 3 clause 5.5 RSS-133 Issue 6 clause 6.5 RSS-139 Issue 3 clause 6.6

12.2 Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. Sufficient scans were taken to show any out of band emissions up to 10^{th} harmonic.

The resolution bandwidth of the spectrum analyzer was set at 100 kHz for below 1GHz & 1MHz for above 1GHz.

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

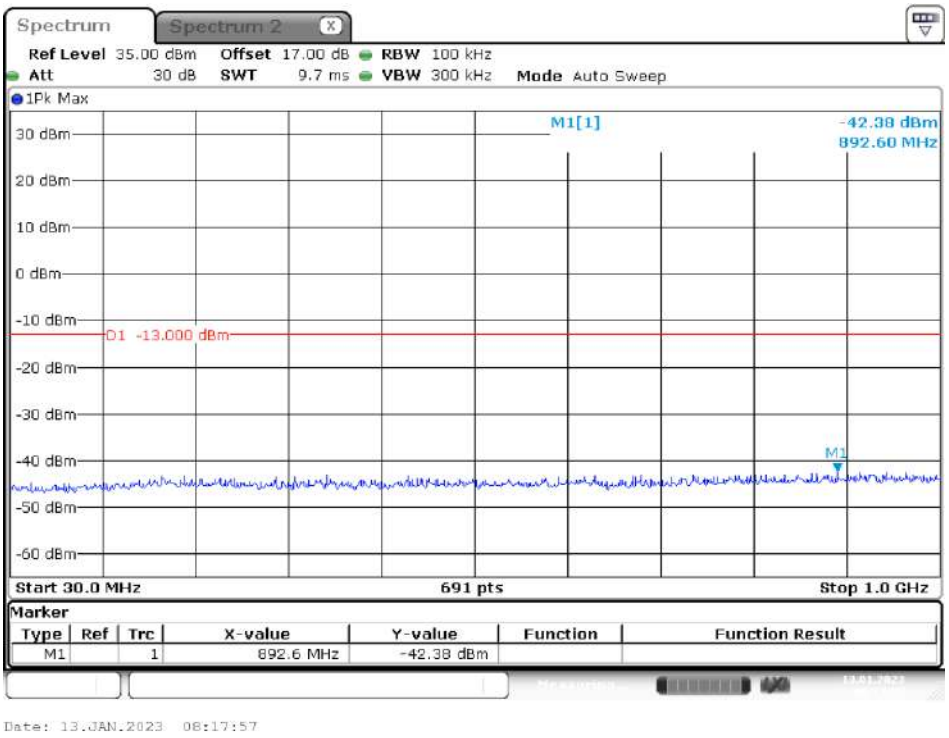
12.3 Test Results

(Worst case is Resource Block & RB offset: RB1#0)

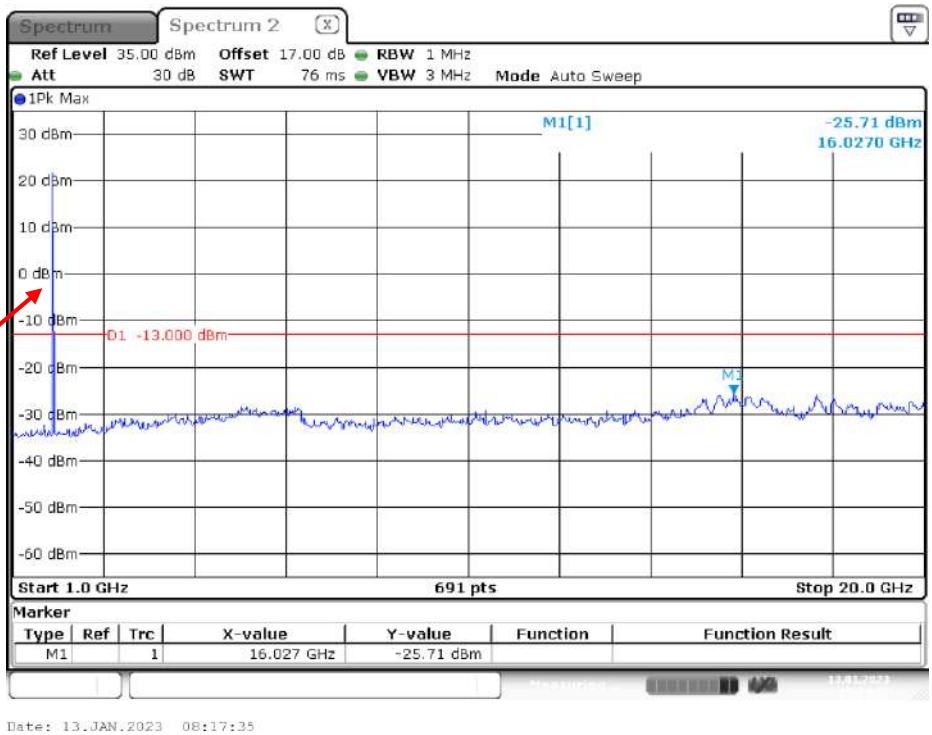
Please refer to the following plots

LTE Band 2

30 MHz – 1 GHz (1.4 MHz, QPSK, Low Channel)

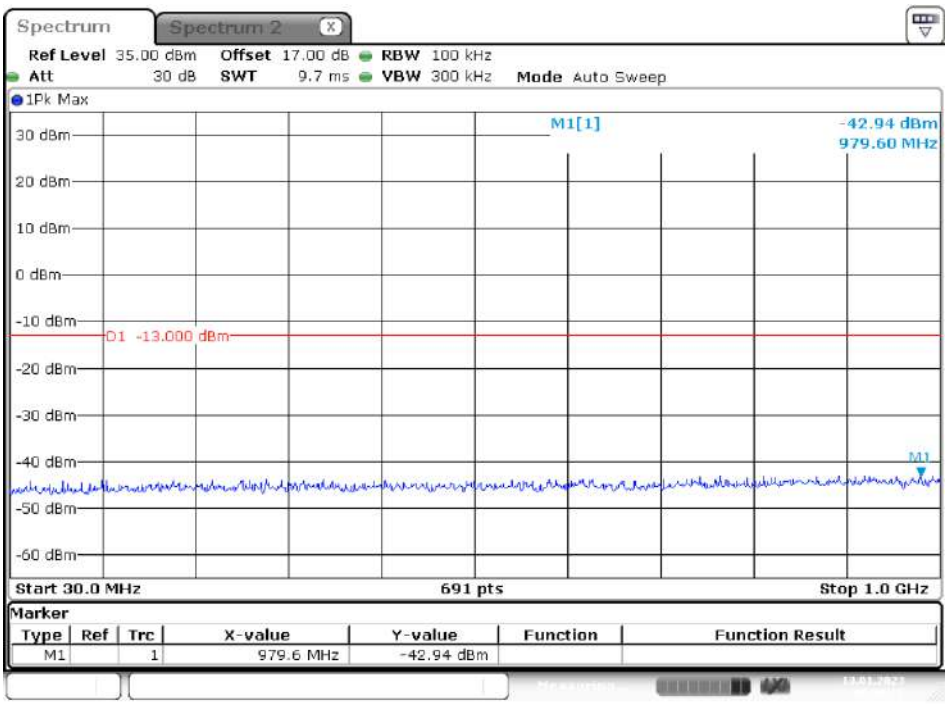


1 GHz – 20 GHz (1.4 MHz, QPSK, Low Channel)



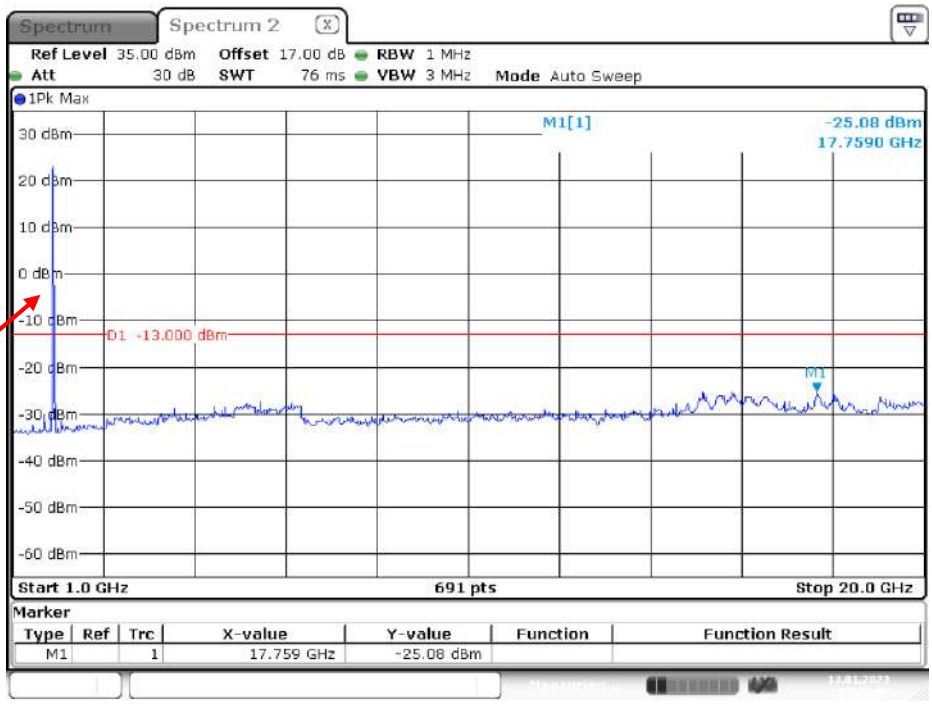
Fundamental

30 MHz – 1 GHz (3 MHz, QPSK, Low Channel)



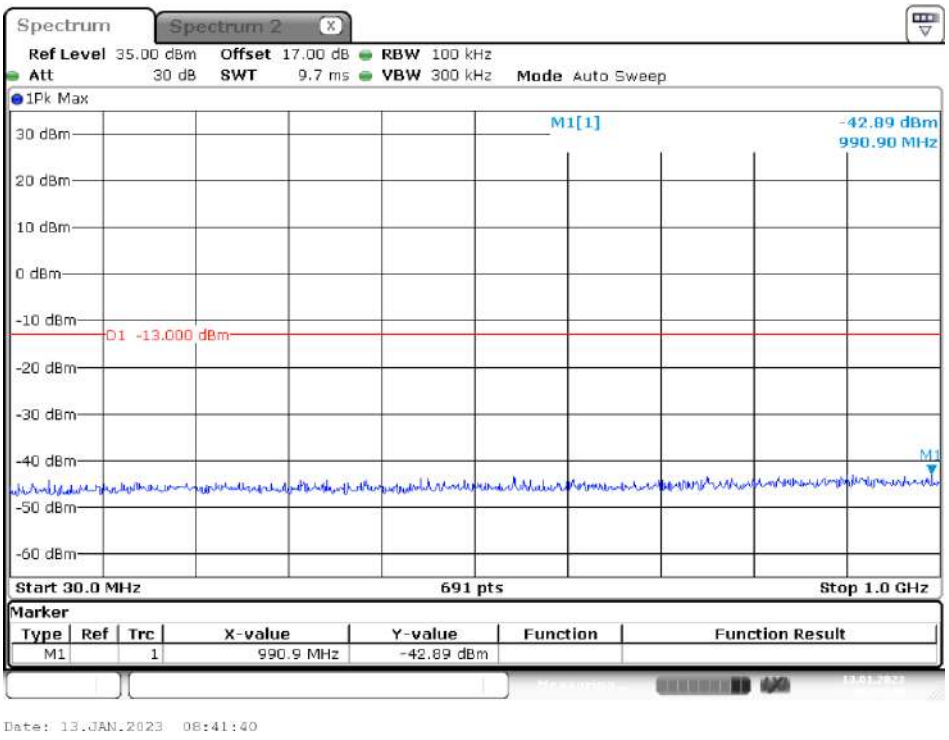
1 GHz – 20 GHz (3 MHz, QPSK, Low Channel)

Fundamental



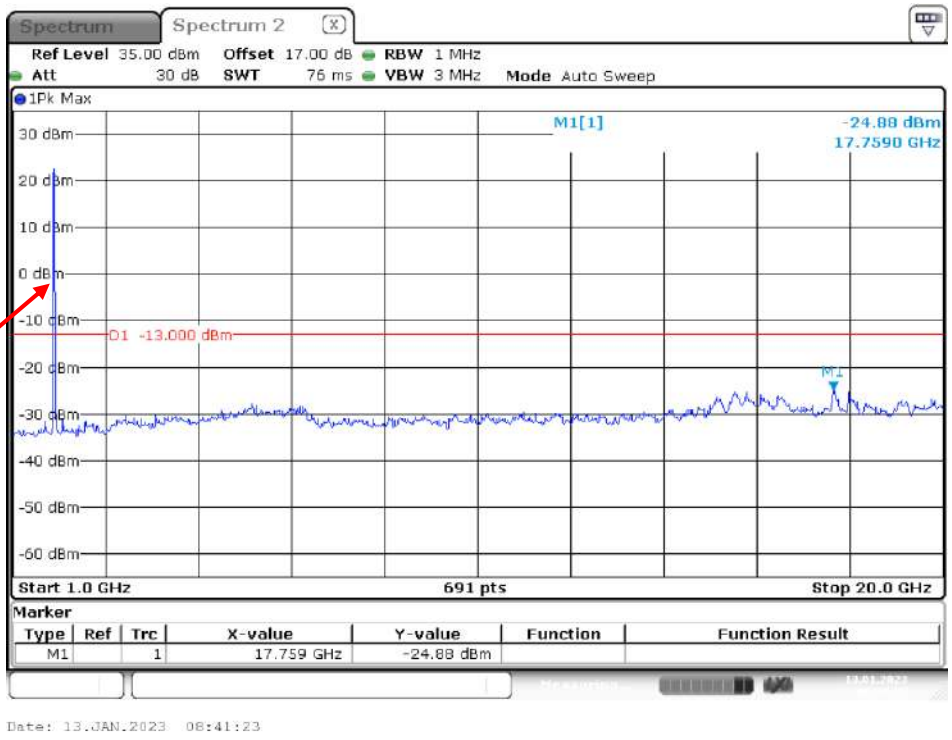
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (5 MHz, QPSK, Low Channel)



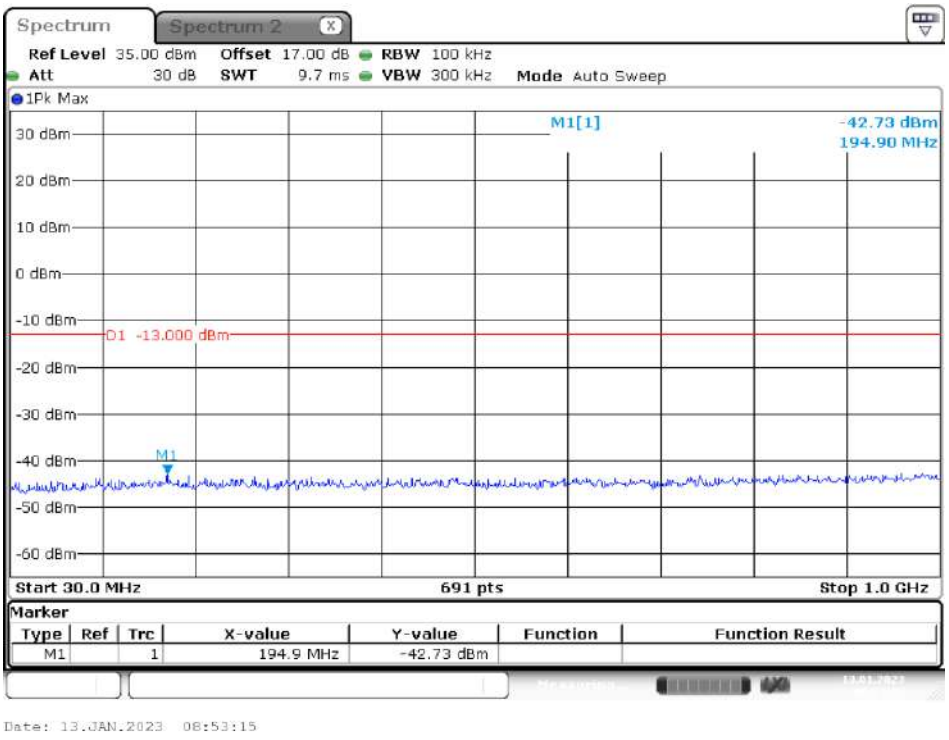
1 GHz – 20 GHz (5 MHz, QPSK, Low Channel)

Fundamental

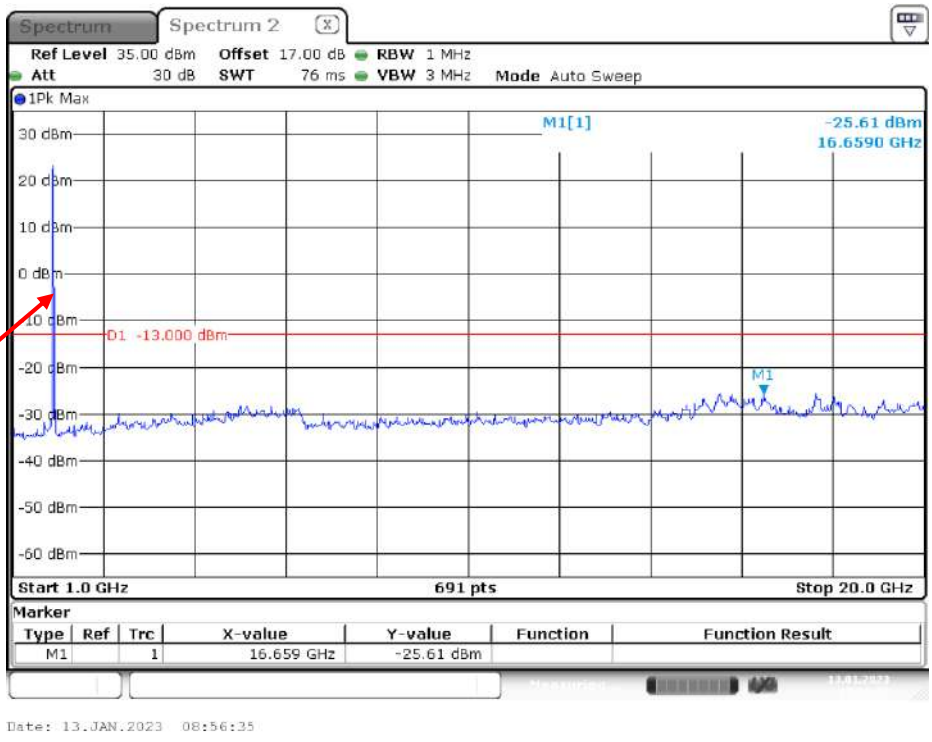


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (10 MHz, QPSK, Low Channel)

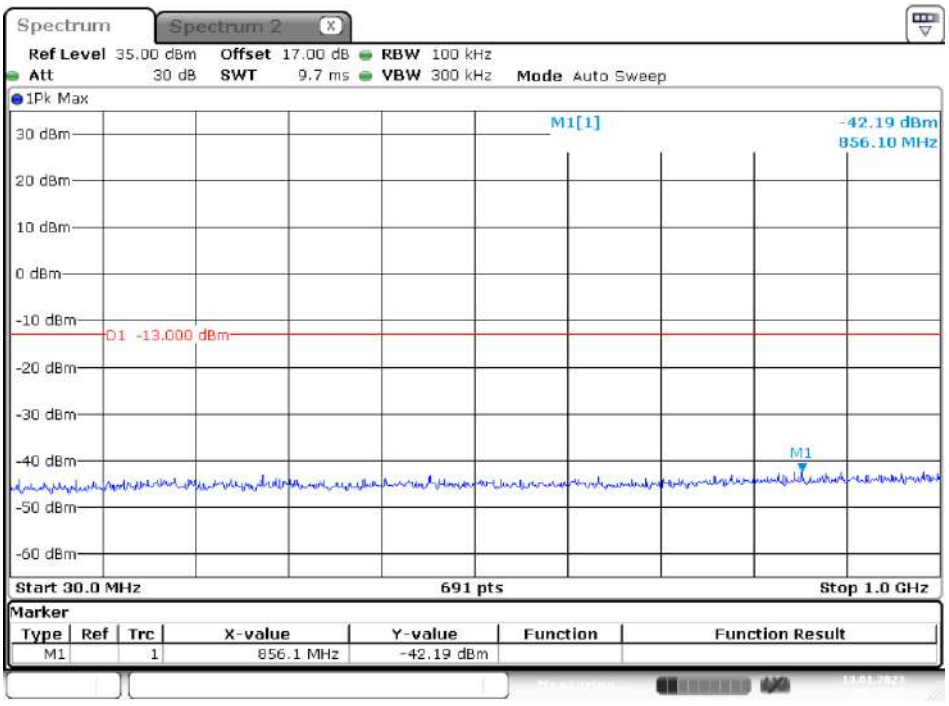


1 GHz – 20 GHz (10 MHz, QPSK, Low Channel)



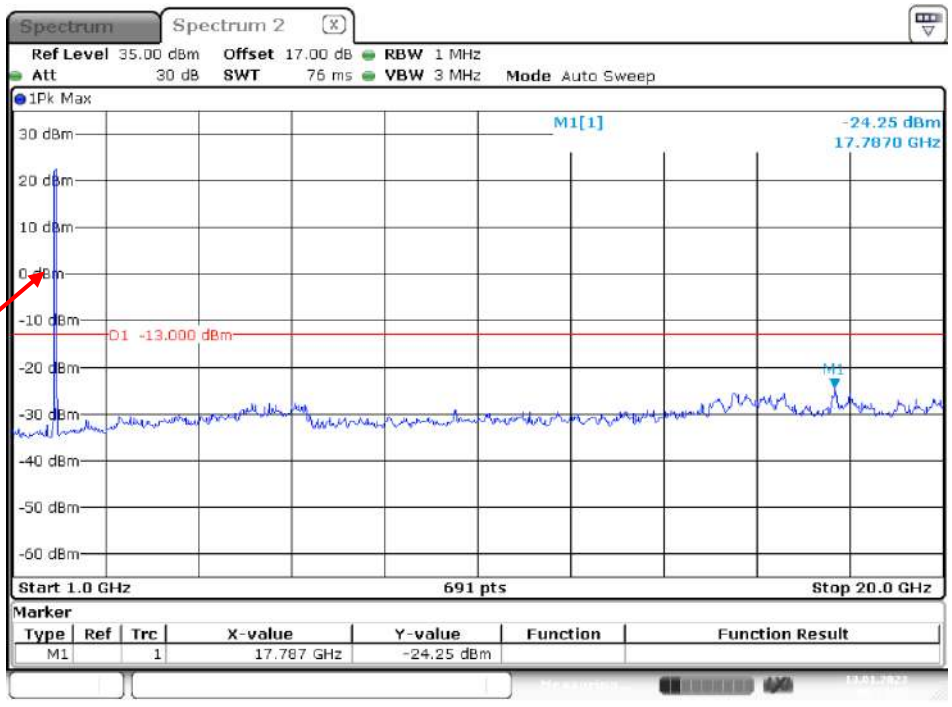
Fundamental

30 MHz – 1 GHz (1.4 MHz, QPSK, Middle Channel)



Date: 13.JAN.2023 08:13:10

1 GHz – 20 GHz (1.4 MHz, QPSK, Middle Channel)

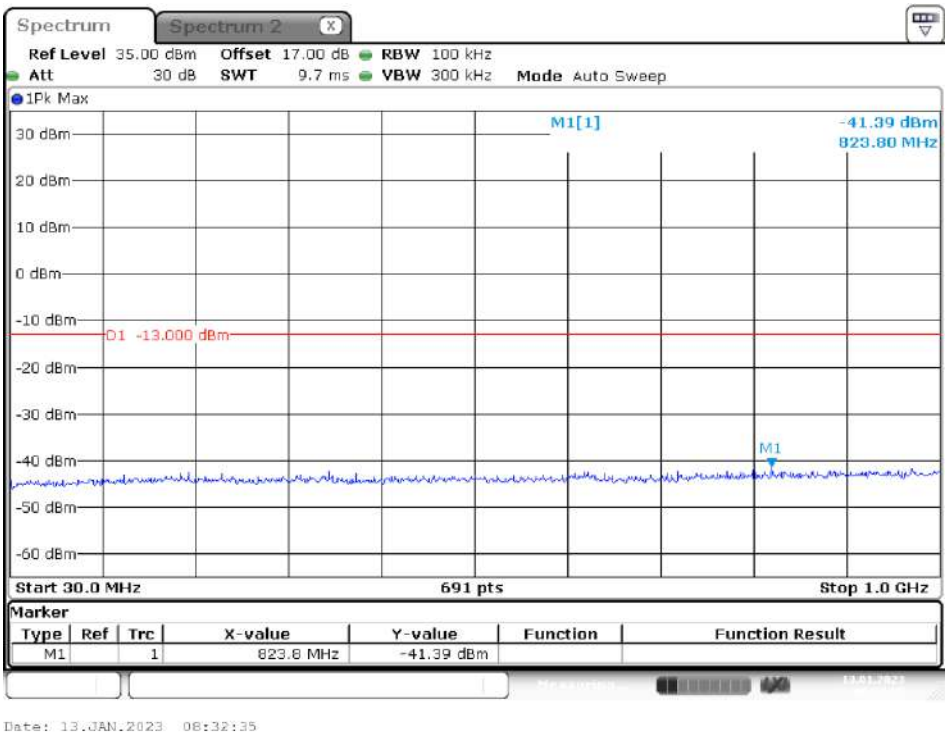


Fundamental

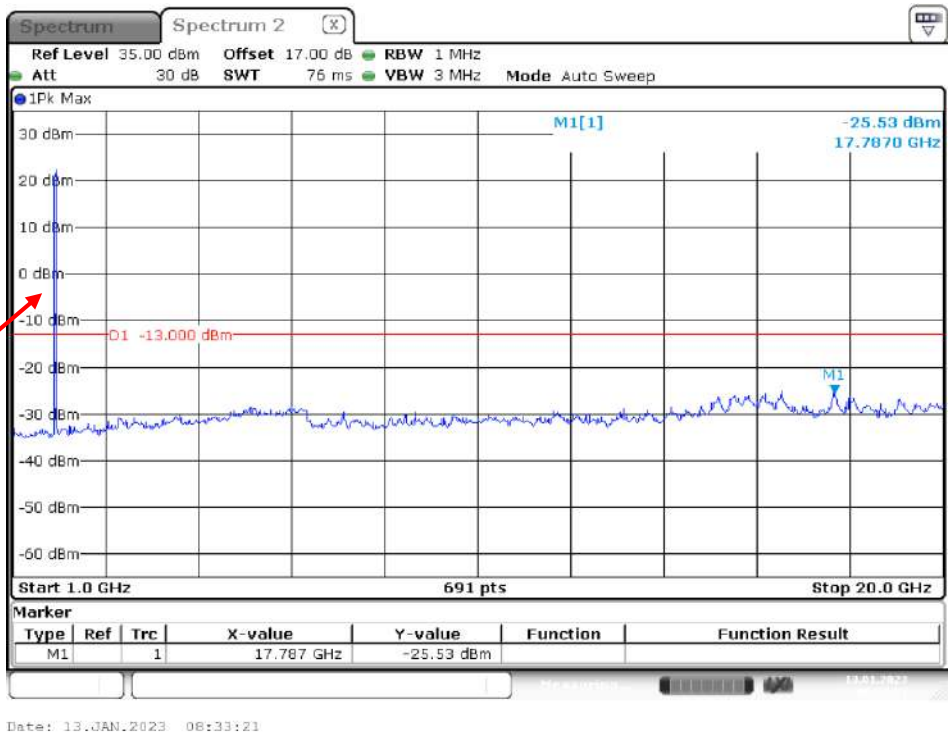
Date: 13.JAN.2023 08:13:37

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (3 MHz, QPSK, Middle Channel)

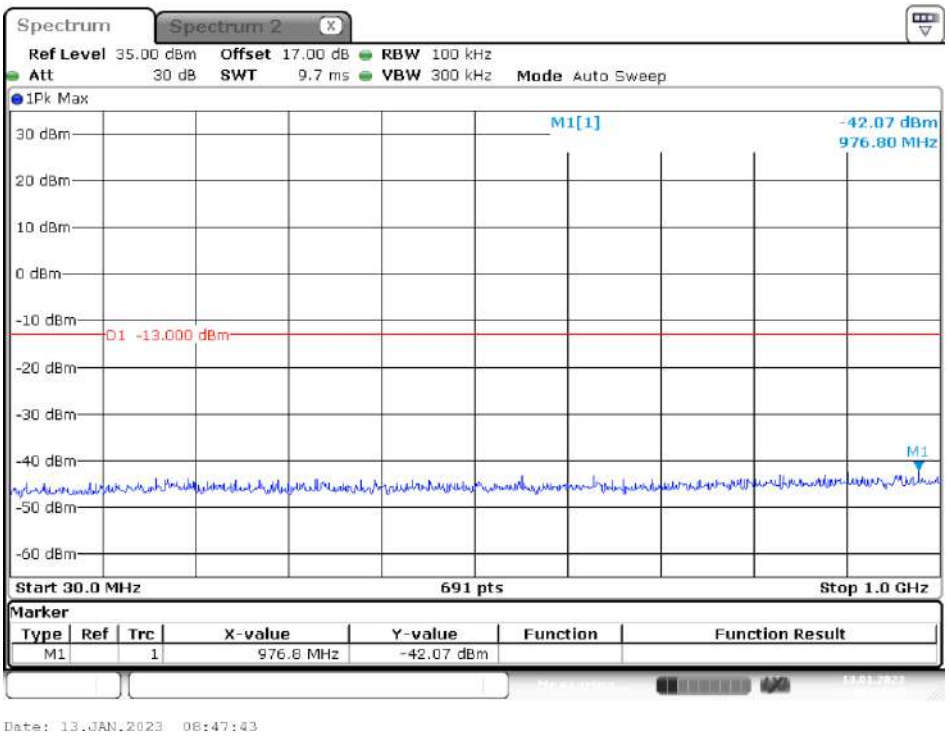


1 GHz – 20 GHz (3 MHz, QPSK, Middle Channel)

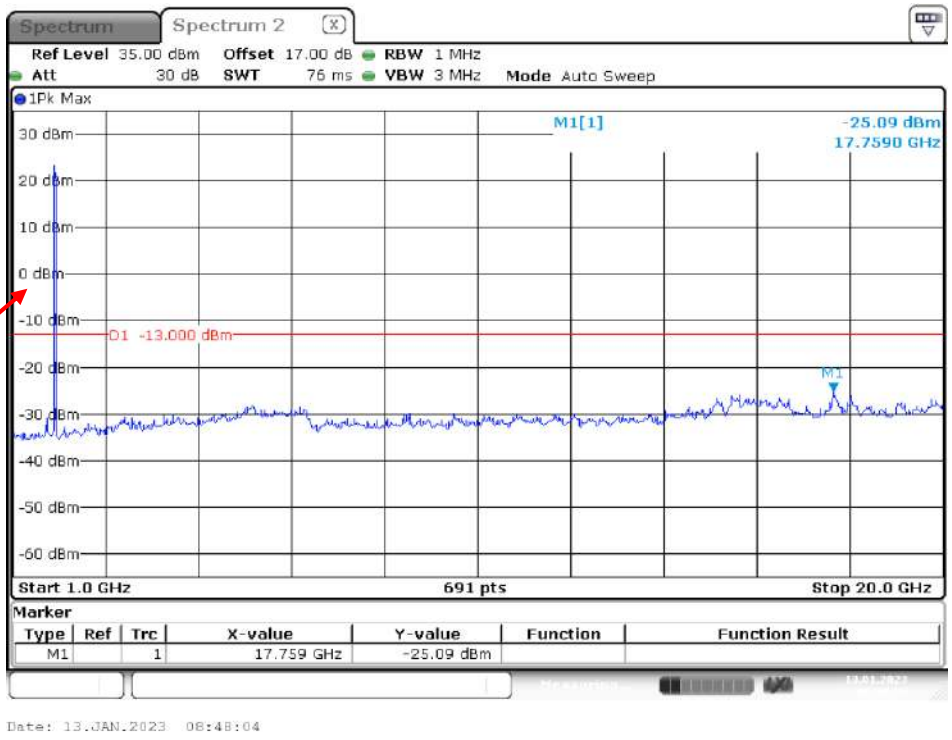


Fundamental

30 MHz – 1 GHz (5 MHz, QPSK, Middle Channel)

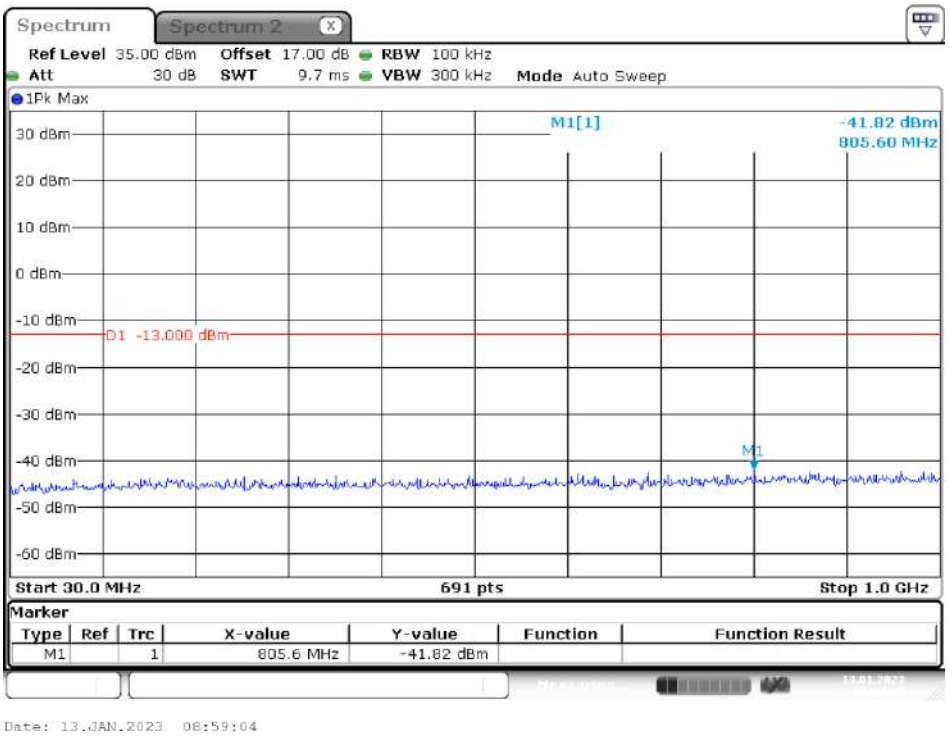


1 GHz – 20 GHz (5 MHz, QPSK, Middle Channel)

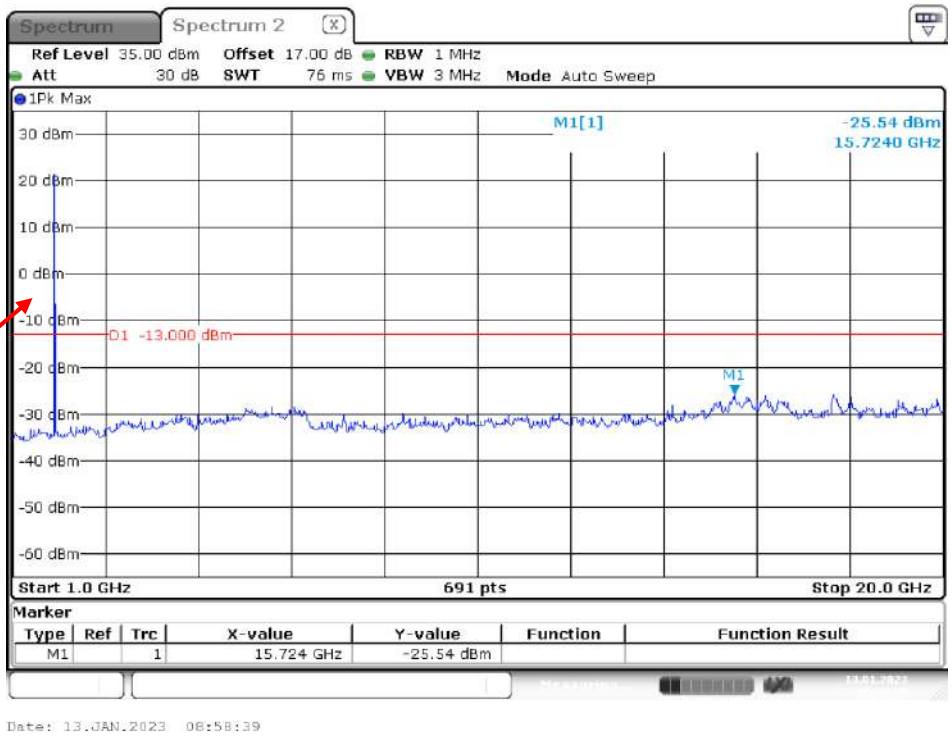


Fundamental

30 MHz – 1 GHz (10 MHz, QPSK, Middle Channel)

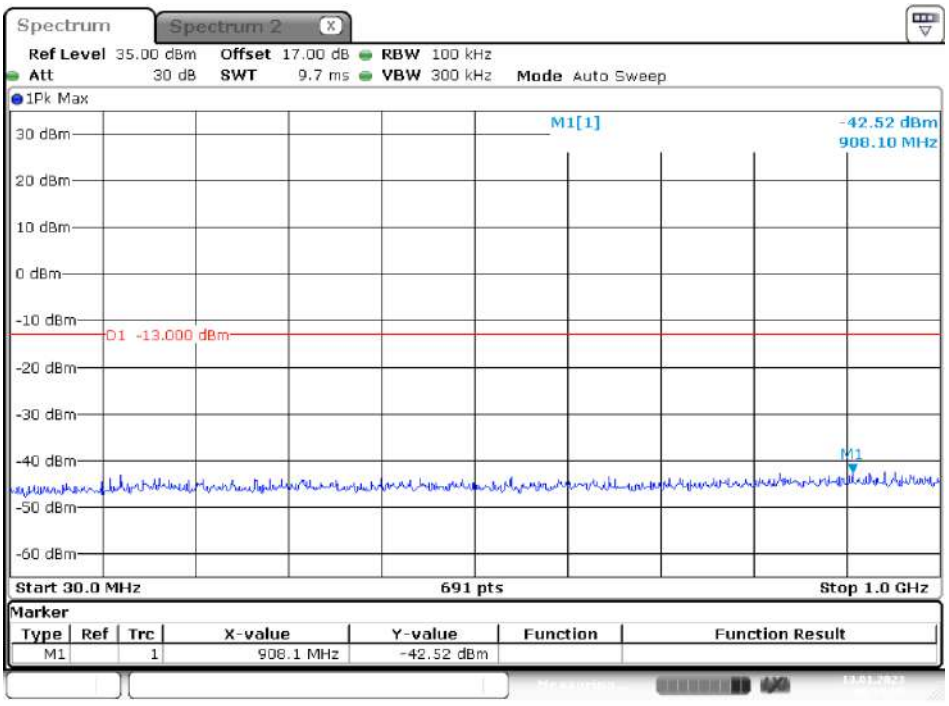


1 GHz – 20 GHz (10 MHz, QPSK, Middle Channel)

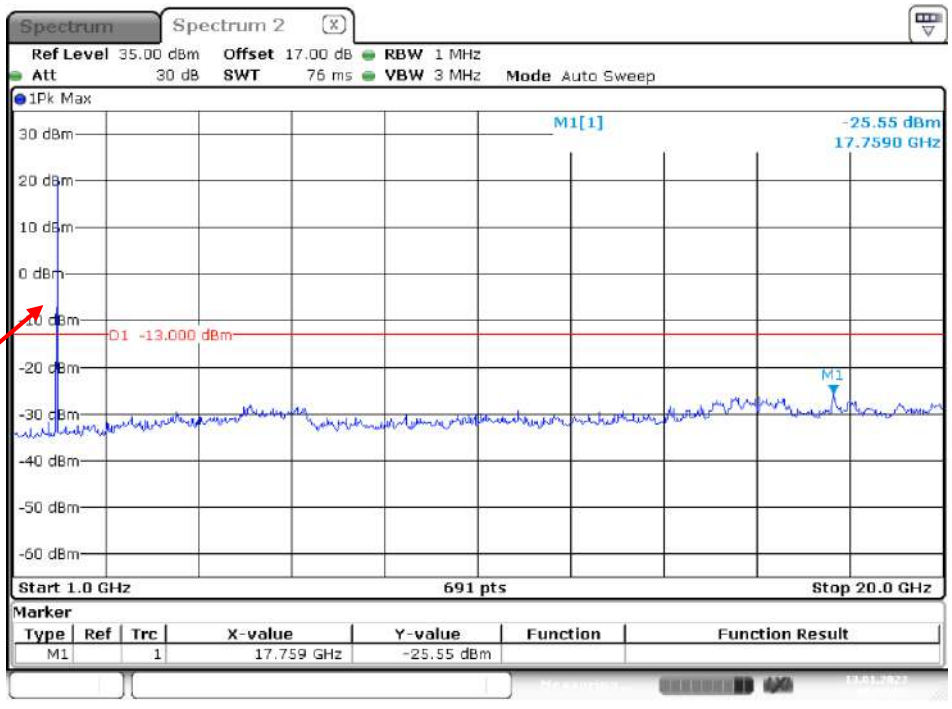


Fundamental

30 MHz – 1 GHz (1.4 MHz, QPSK, High Channel)



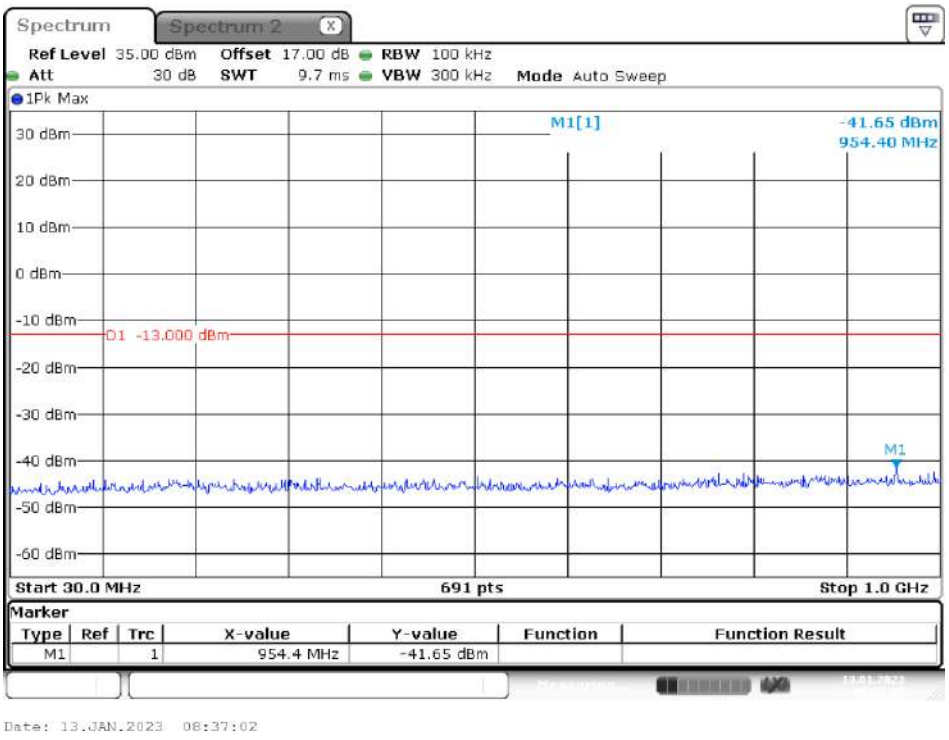
1 GHz – 20 GHz (1.4 MHz, QPSK, High Channel)



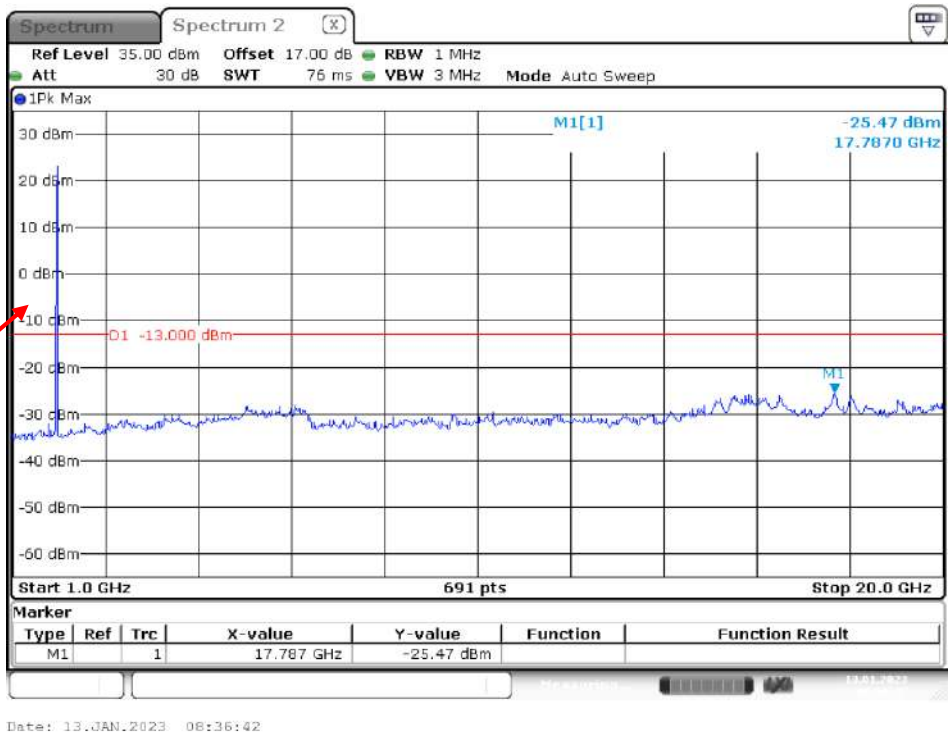
Fundamental

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (3 MHz, QPSK, High Channel)

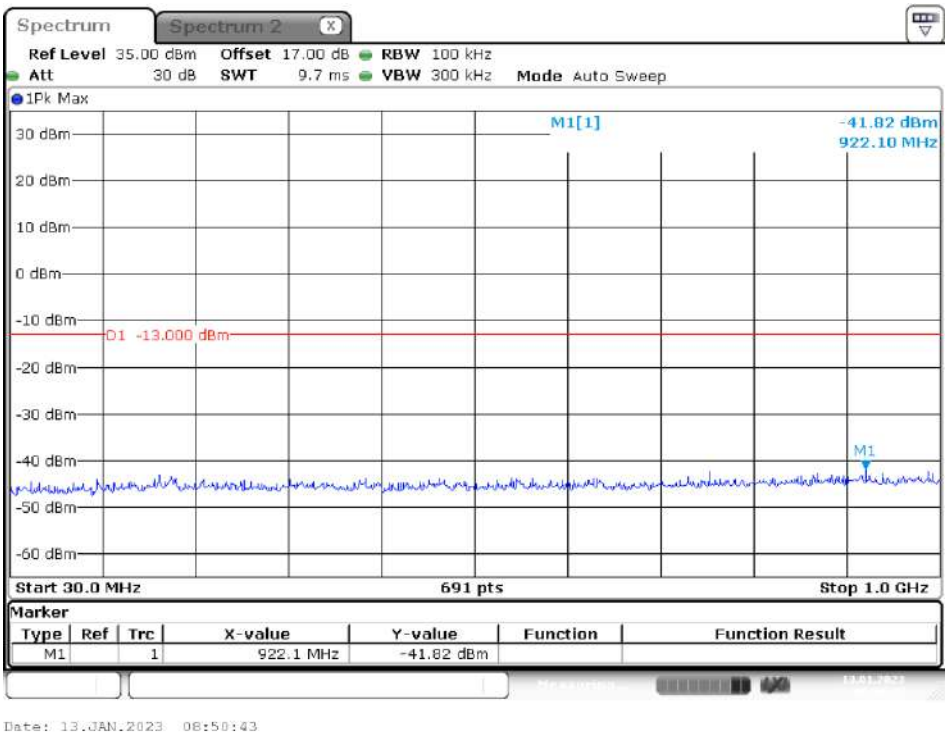


1 GHz – 20 GHz (3 MHz, QPSK, High Channel)

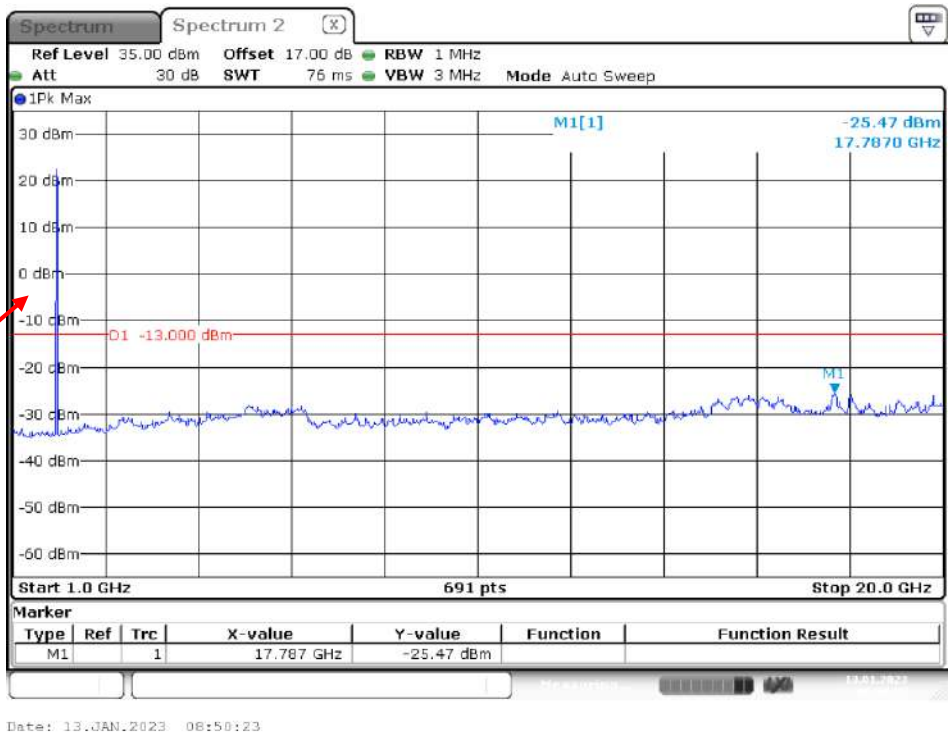


Fundamental

30 MHz – 1 GHz (5 MHz, QPSK, High Channel)

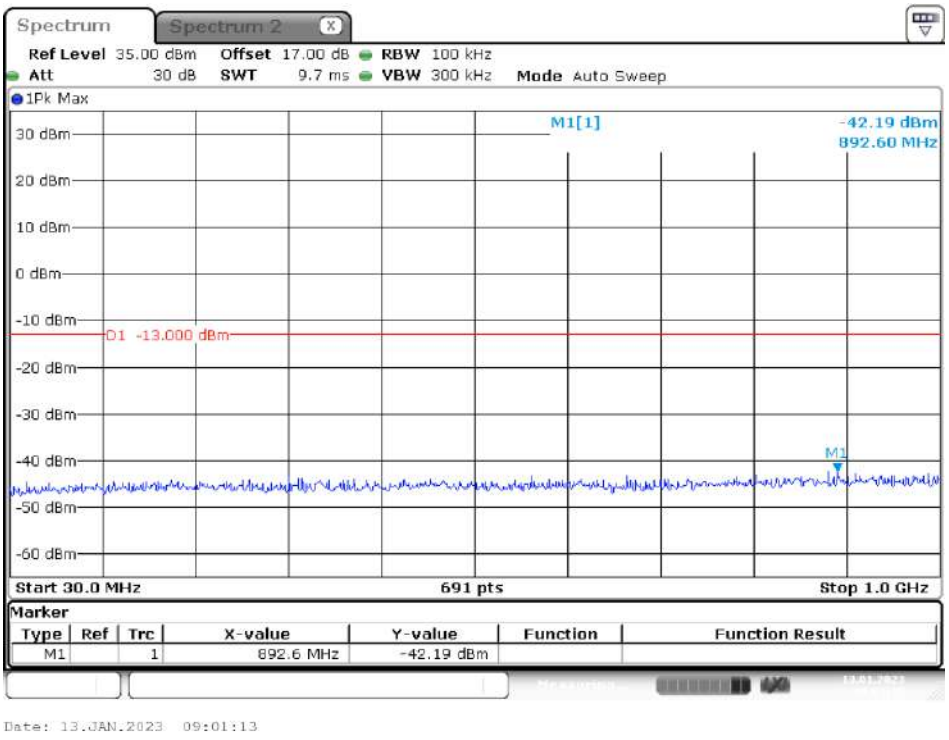


1 GHz – 20 GHz (5 MHz, QPSK, High Channel)

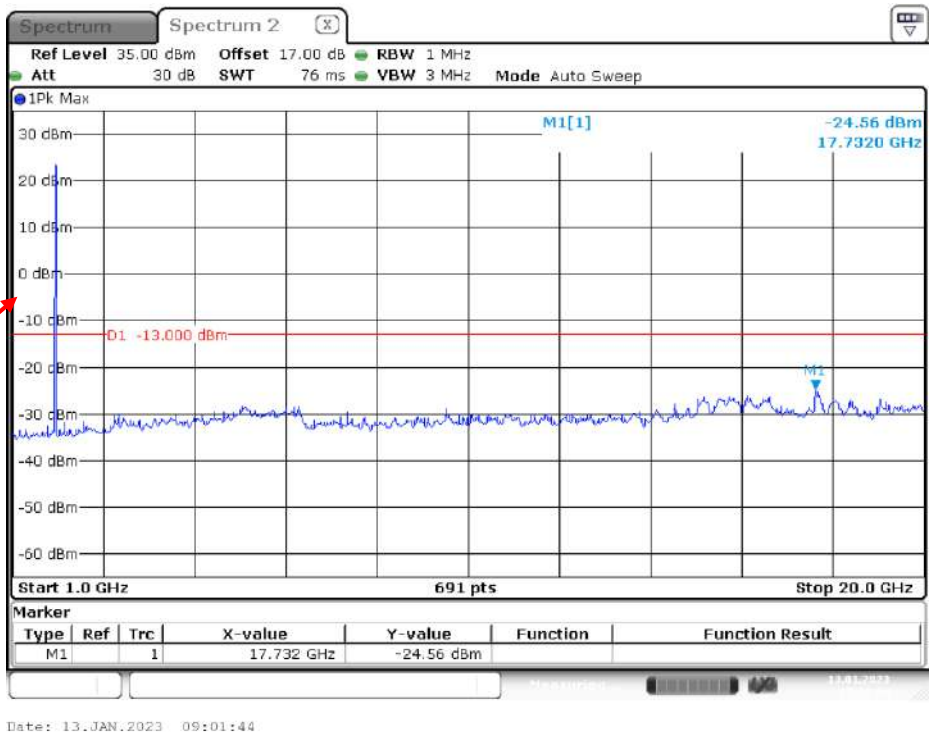


Fundamental

30 MHz – 1 GHz (10 MHz, QPSK, High Channel)



1 GHz – 20 GHz (10 MHz, QPSK, High Channel)

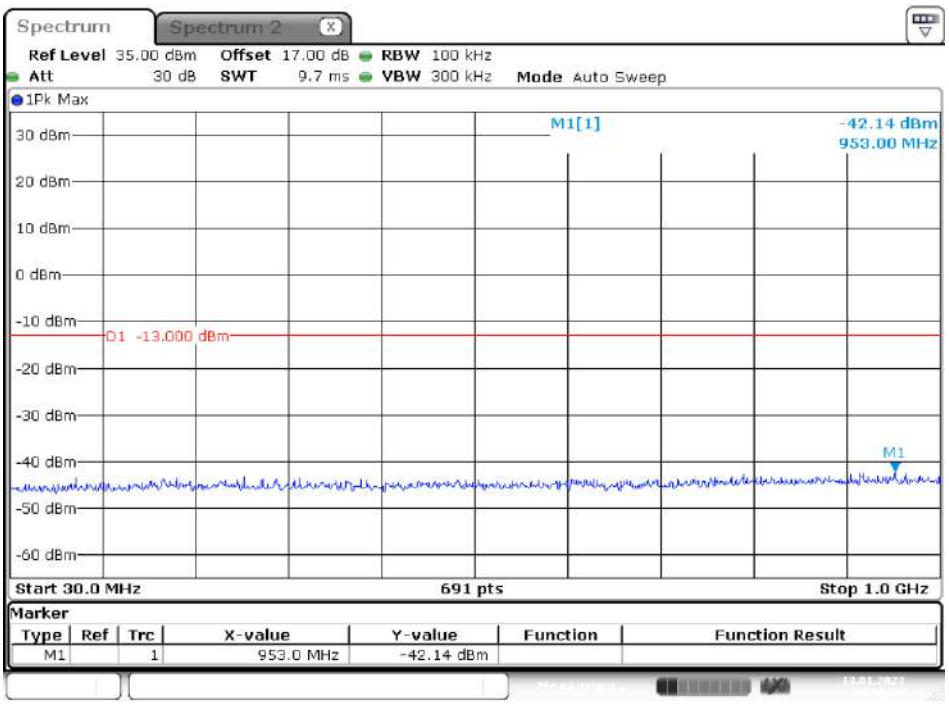


Fundamental

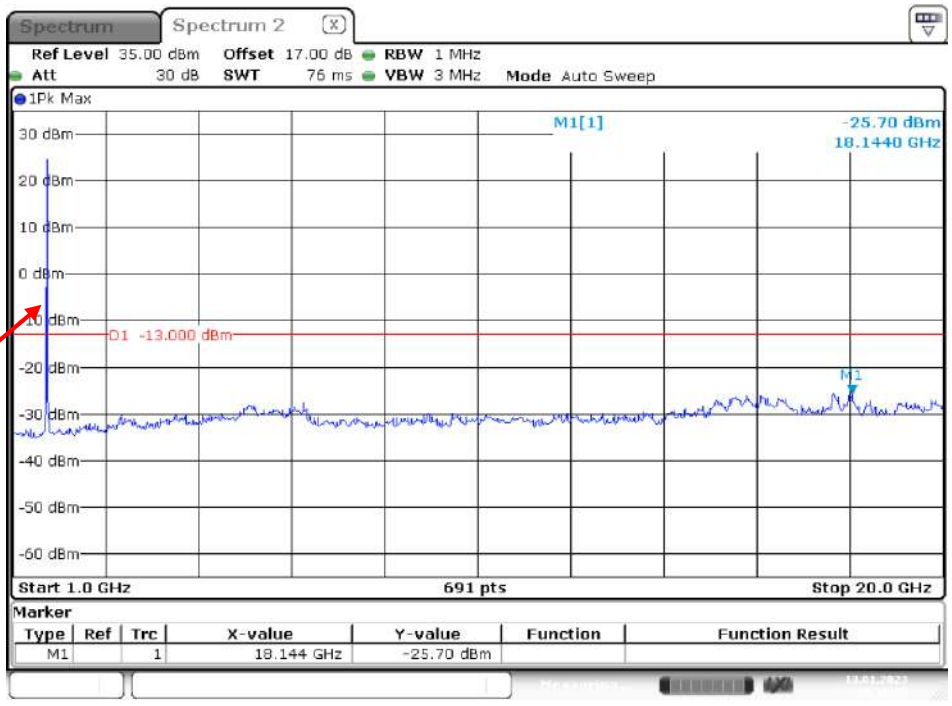
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

LTE Band 4

30 MHz – 1 GHz (1.4 MHz, QPSK, Low Channel)

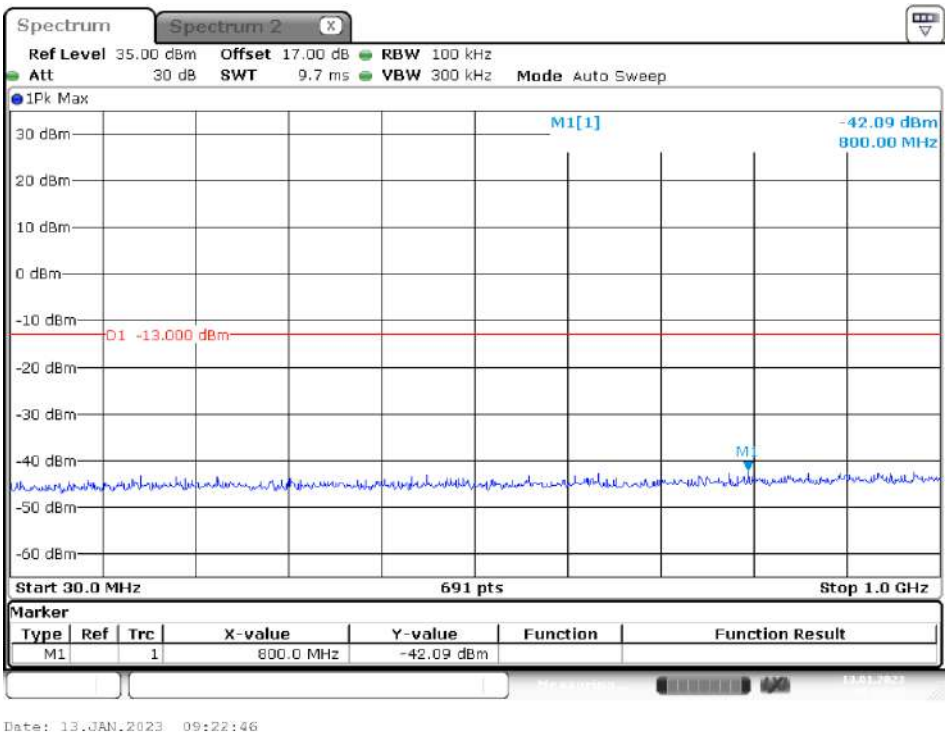


1 GHz – 20 GHz (1.4 MHz, QPSK, Low Channel)



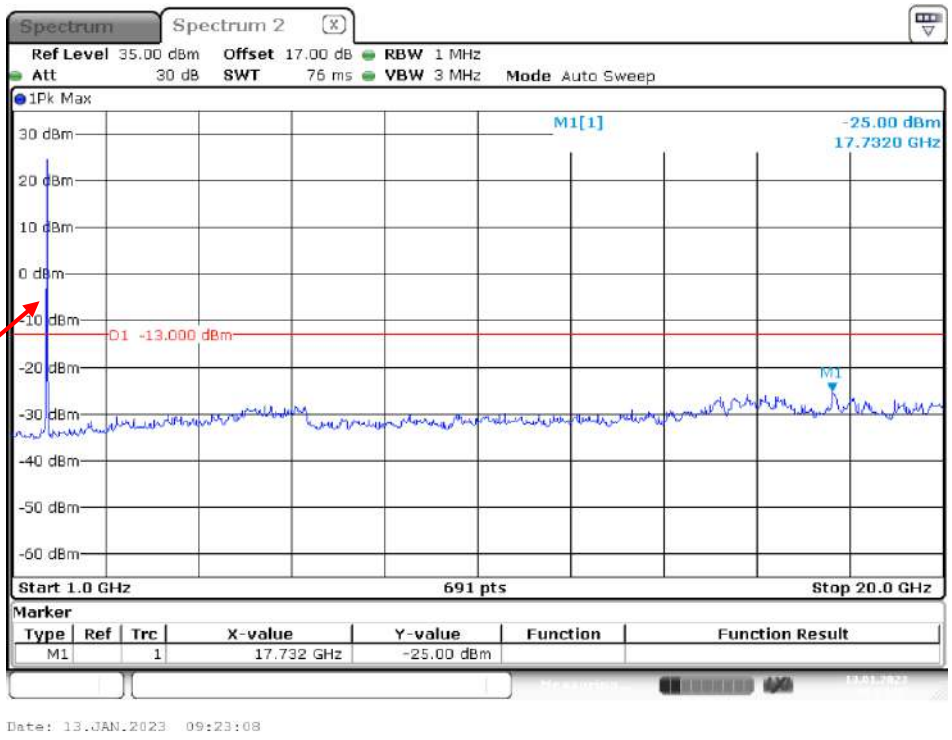
Fundamental

30 MHz – 1 GHz (3 MHz, QPSK, Low Channel)



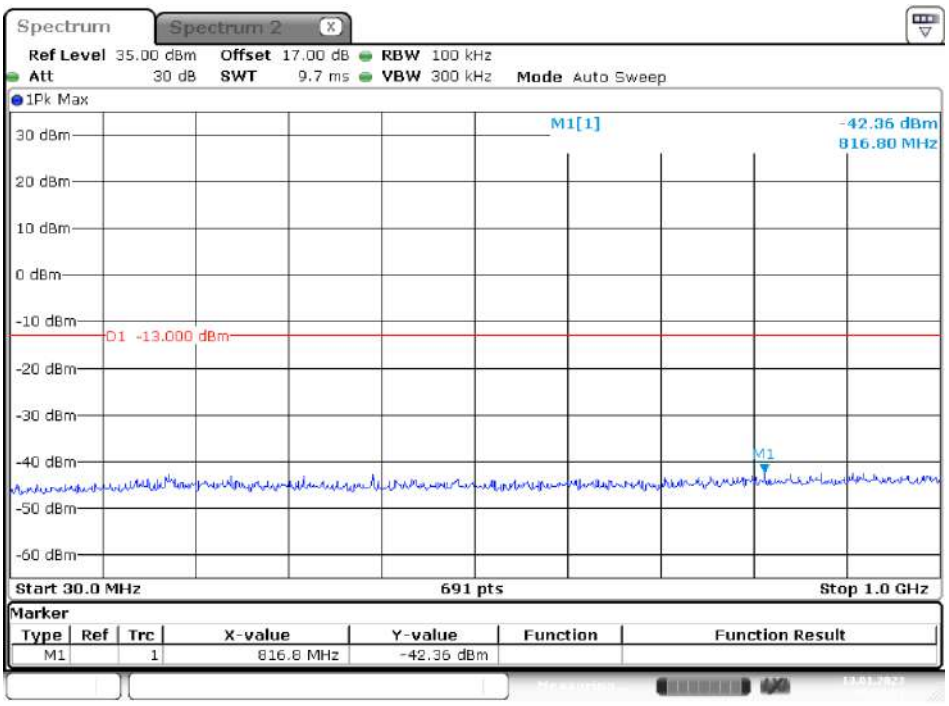
1 GHz – 20 GHz (3 MHz, QPSK, Low Channel)

Fundamental

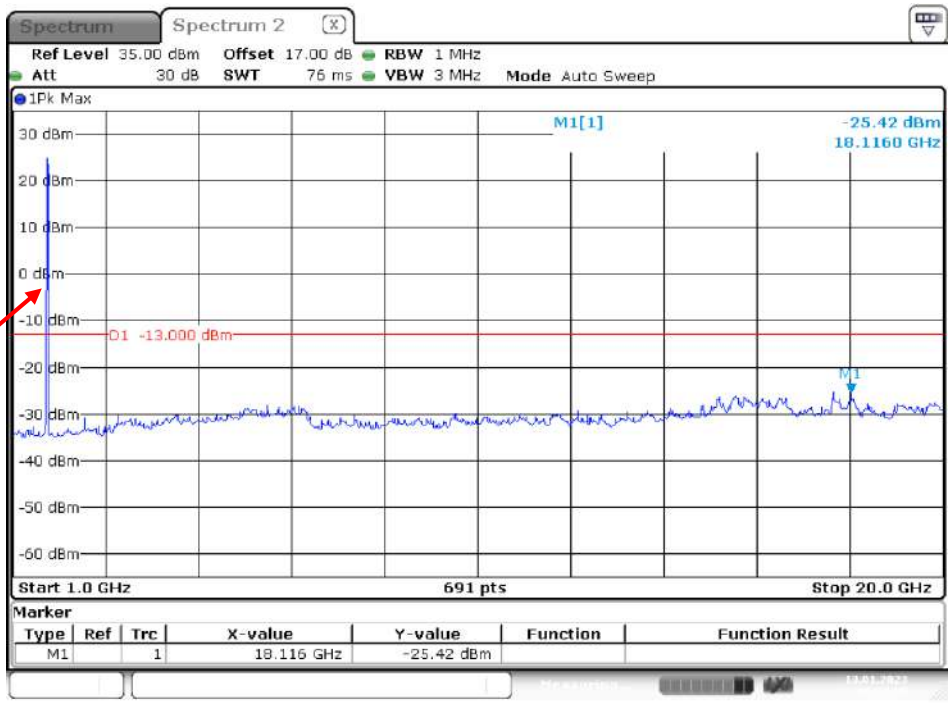


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (5 MHz, QPSK, Low Channel)



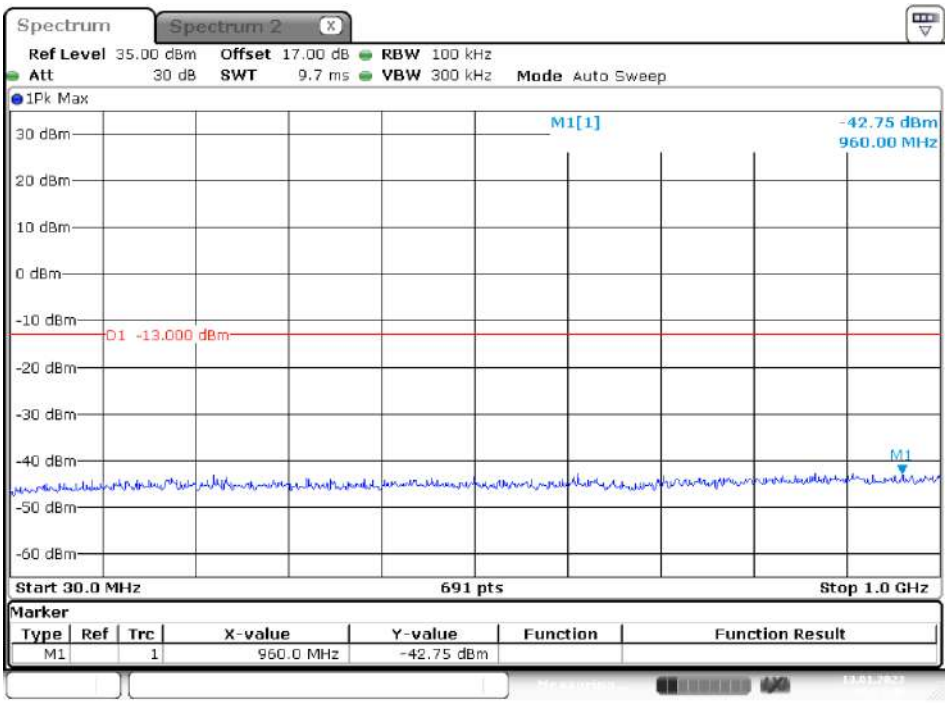
1 GHz – 20 GHz (5 MHz, QPSK, Low Channel)



Fundamental

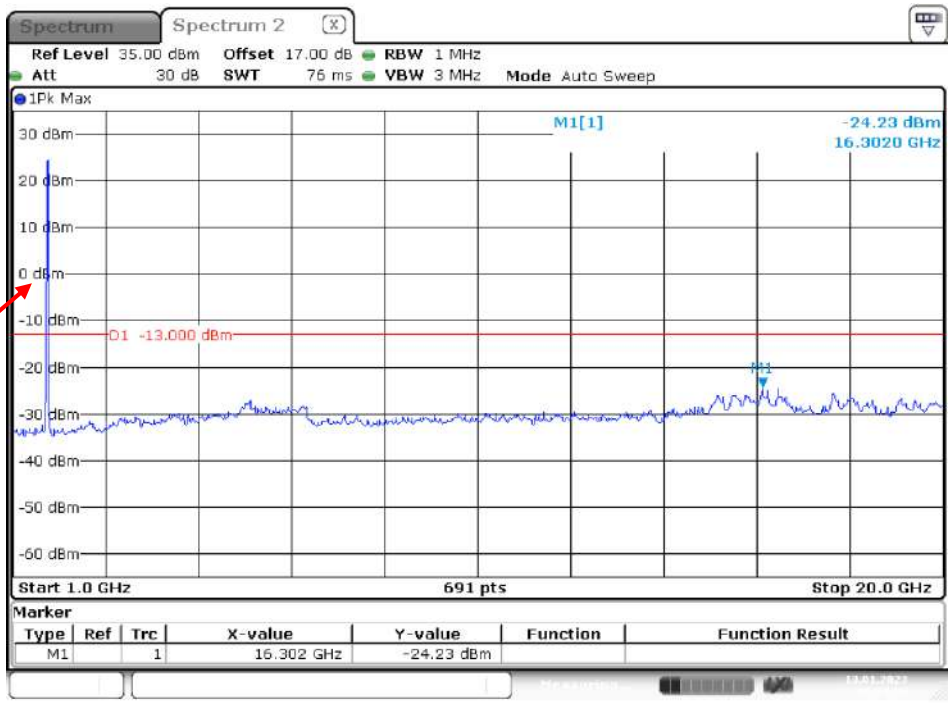
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (10 MHz, QPSK, Low Channel)



Date: 13.JAN.2023 09:53:47

1 GHz – 20 GHz (10 MHz, QPSK, Low Channel)

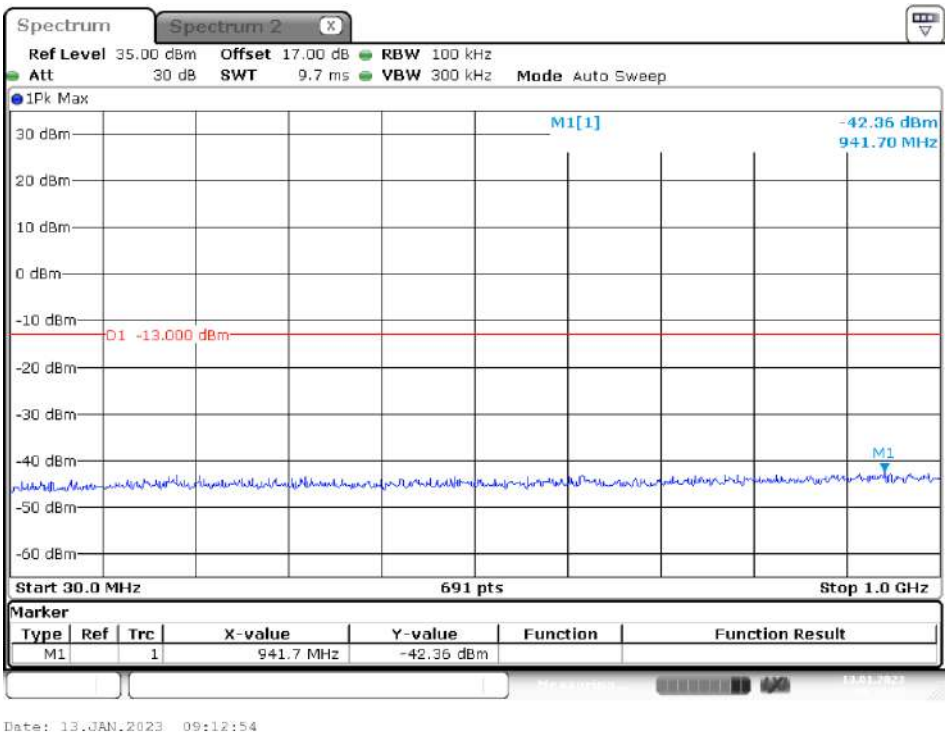


Fundamental

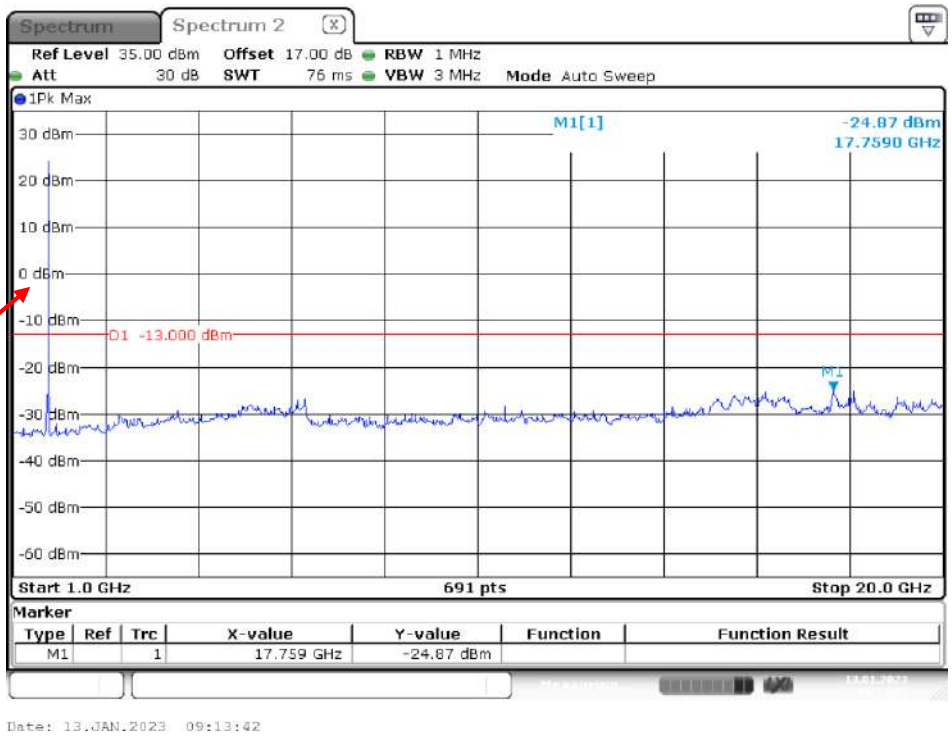
Date: 13.JAN.2023 09:54:35

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (1.4 MHz, QPSK, Middle Channel)



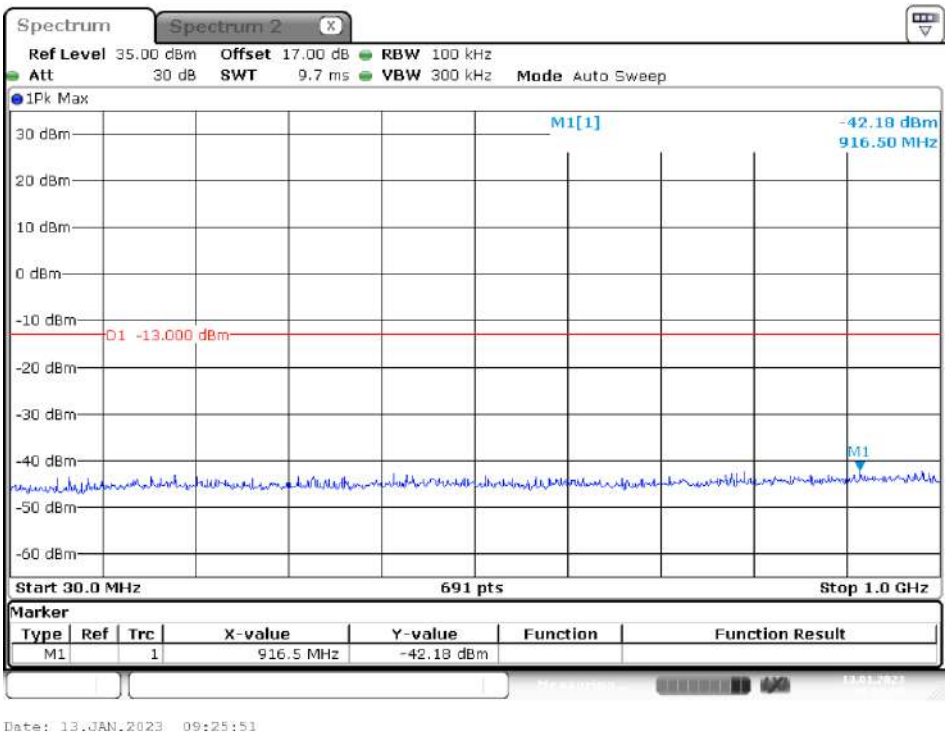
1 GHz – 20 GHz (1.4 MHz, QPSK, Middle Channel)



Fundamental

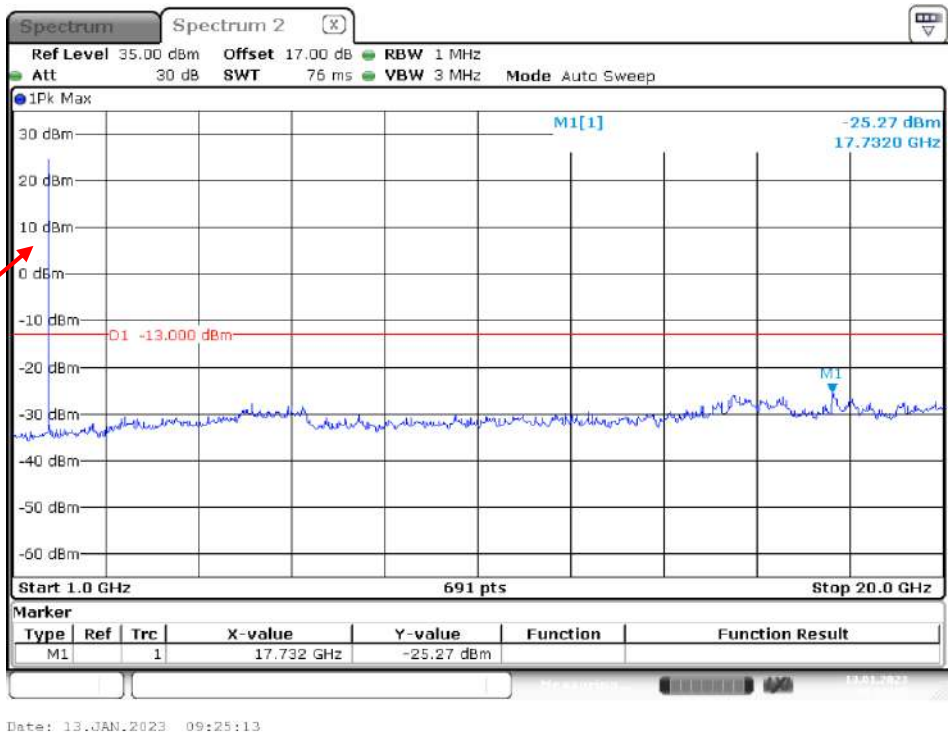
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (3 MHz, QPSK, Middle Channel)



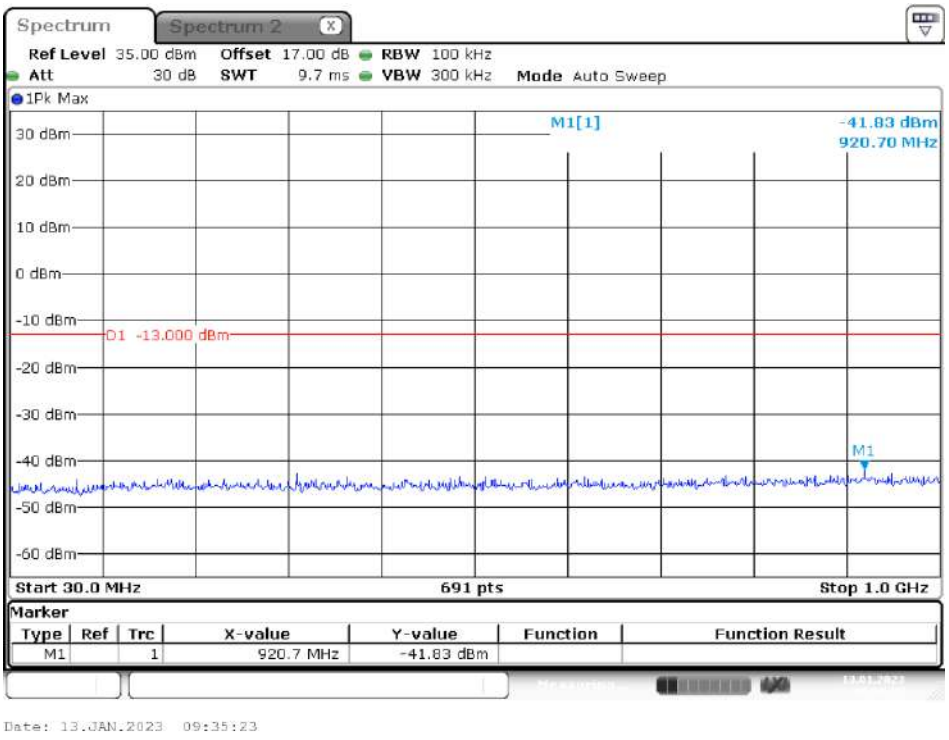
1 GHz – 20 GHz (3 MHz, QPSK, Middle Channel)

Fundamental

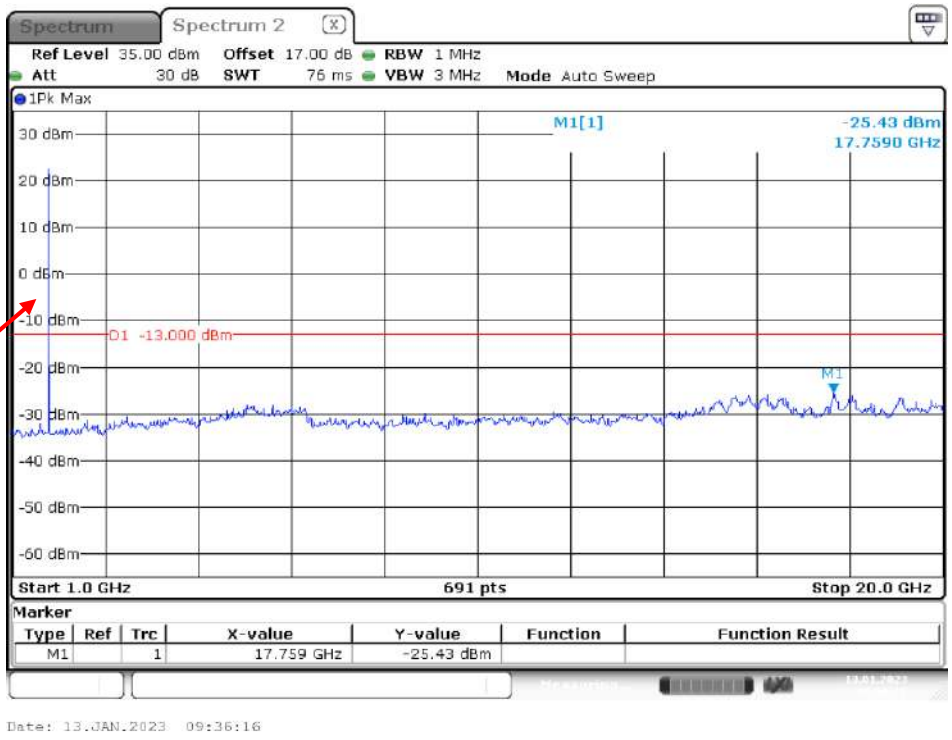


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (5 MHz, QPSK, Middle Channel)



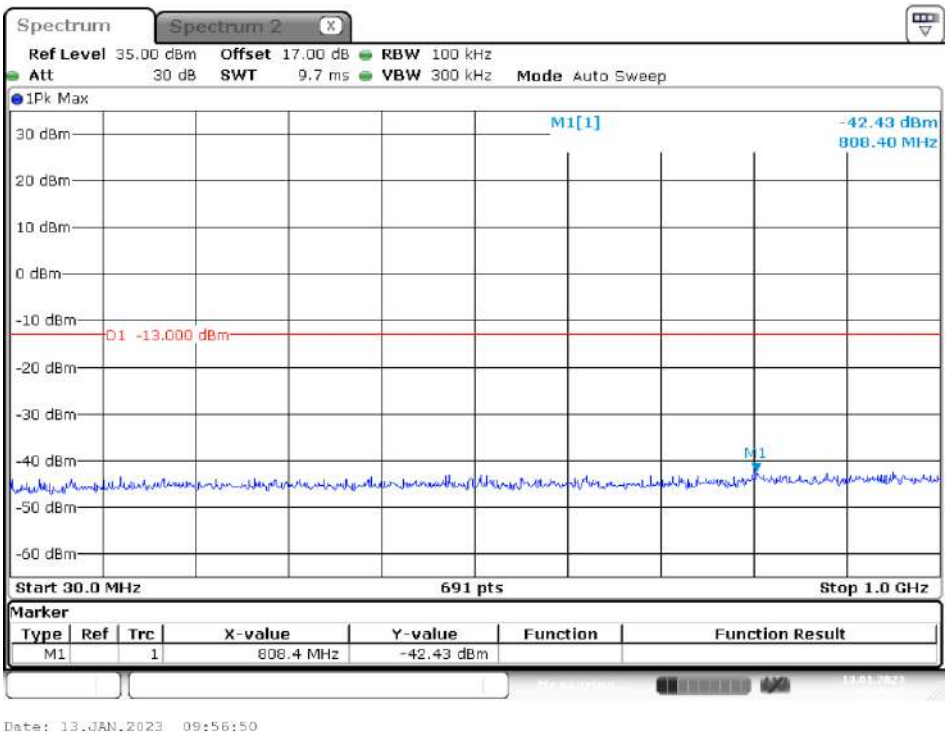
1 GHz – 20 GHz (5 MHz, QPSK, Middle Channel)



Fundamental

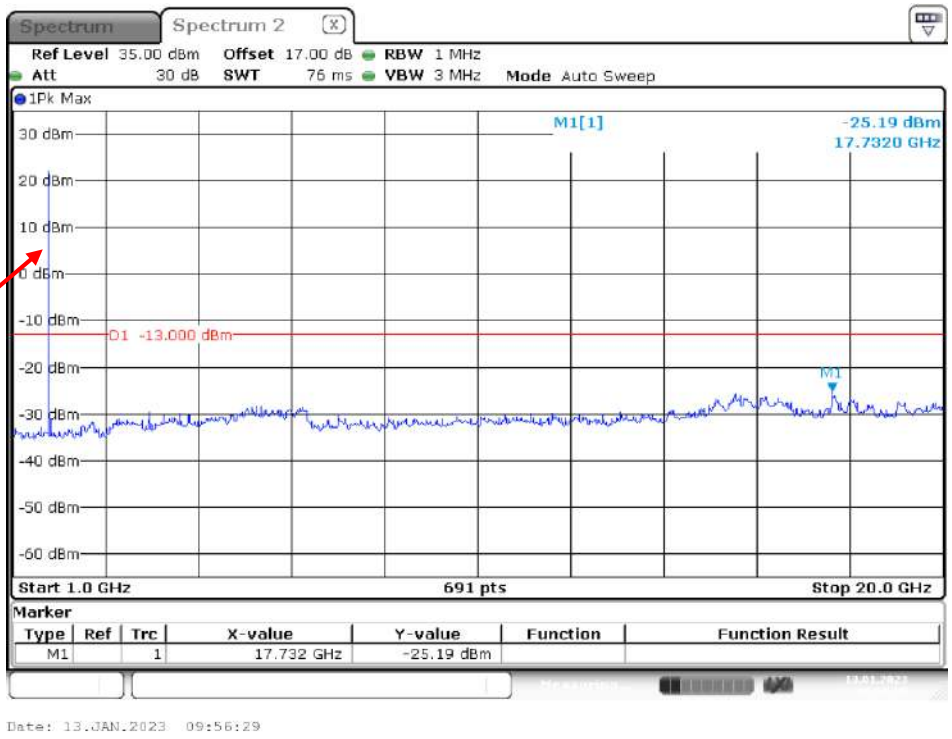
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (10 MHz, QPSK, Middle Channel)



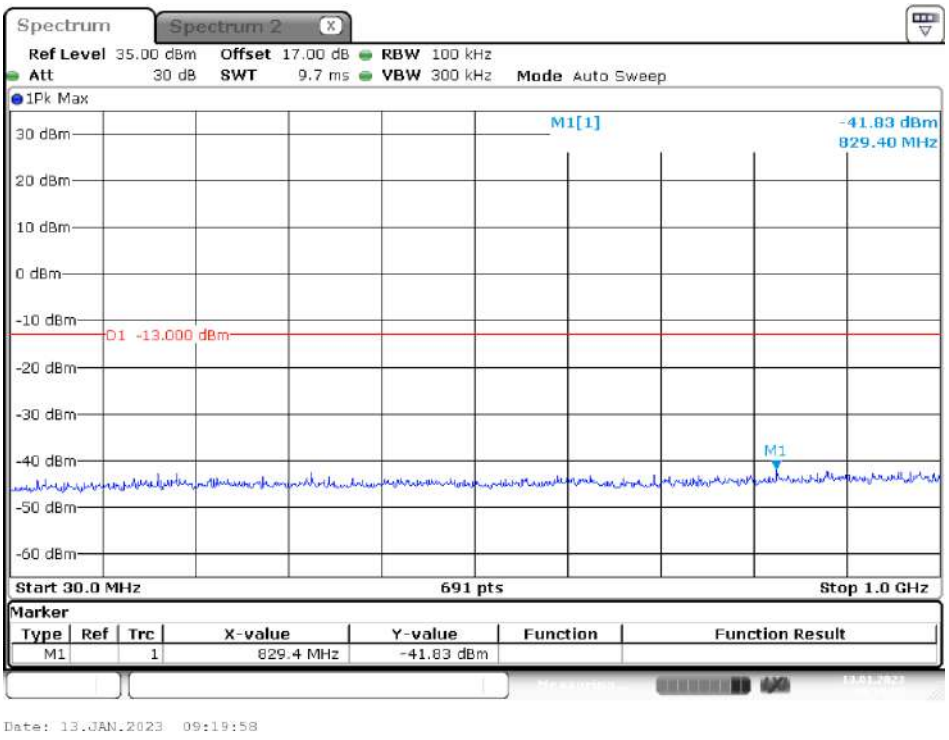
1 GHz – 20 GHz (10 MHz, QPSK, Middle Channel)

Fundamental



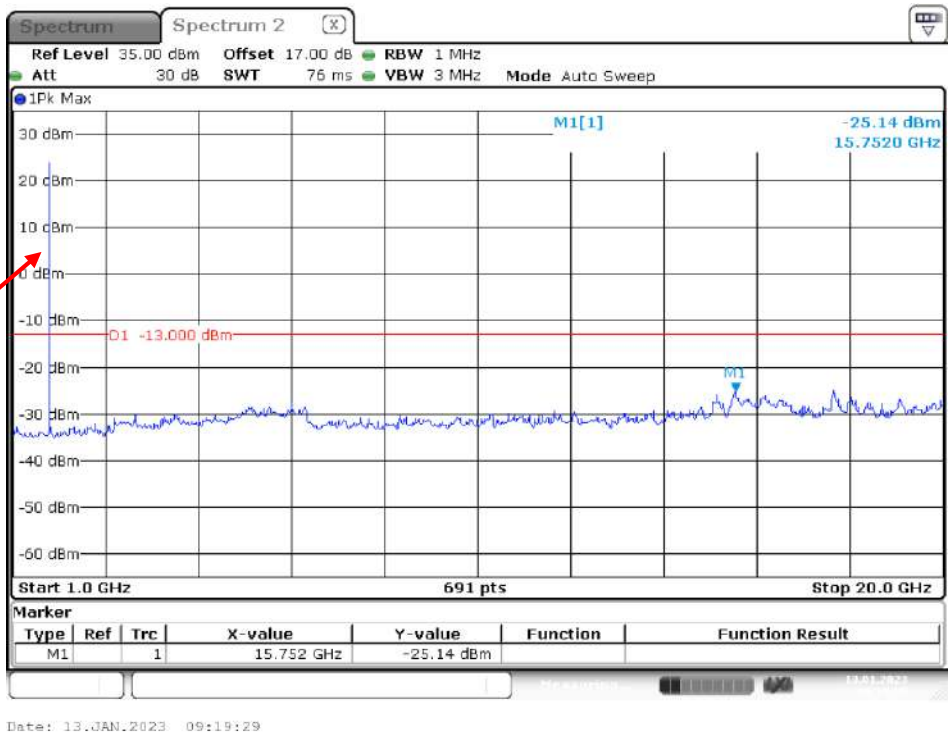
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (1.4 MHz, QPSK, High Channel)



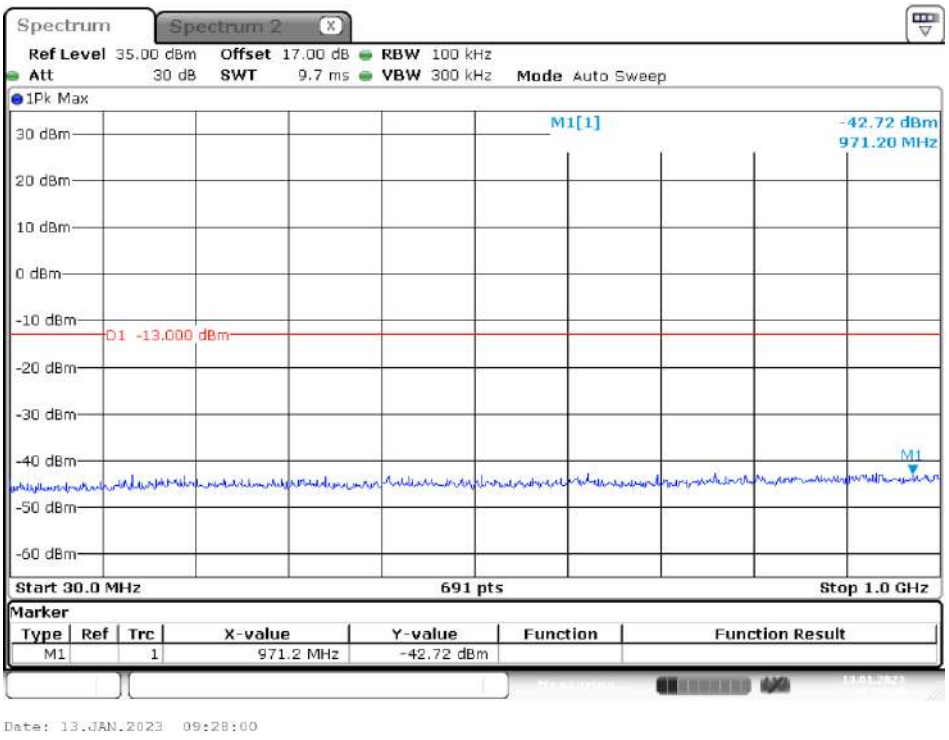
1 GHz – 20 GHz (1.4 MHz, QPSK, High Channel)

Fundamental

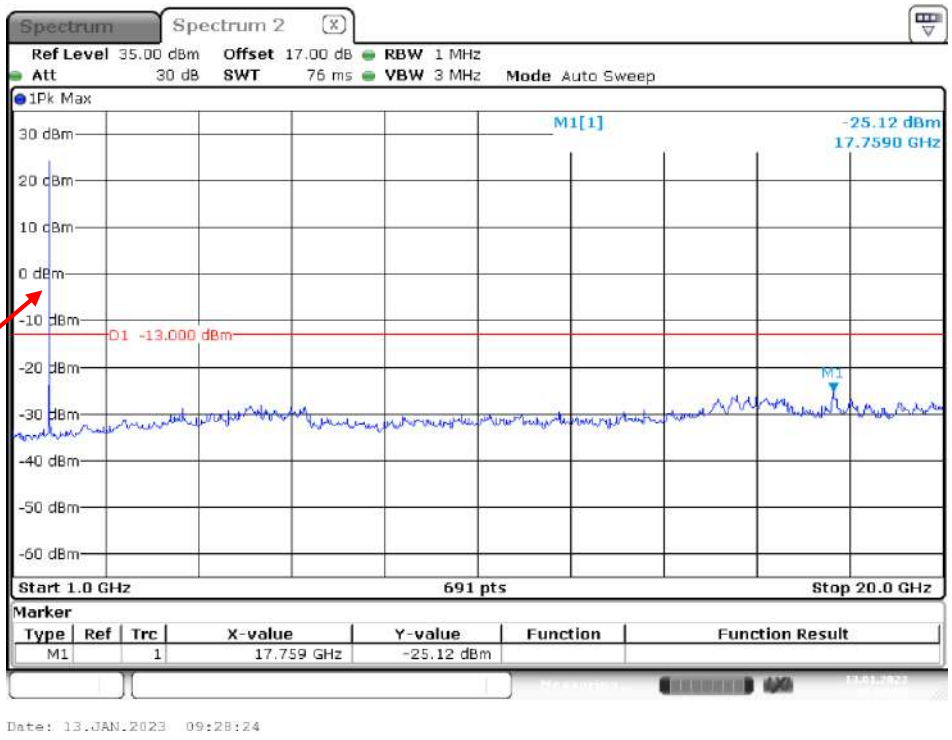


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (3 MHz, QPSK, High Channel)



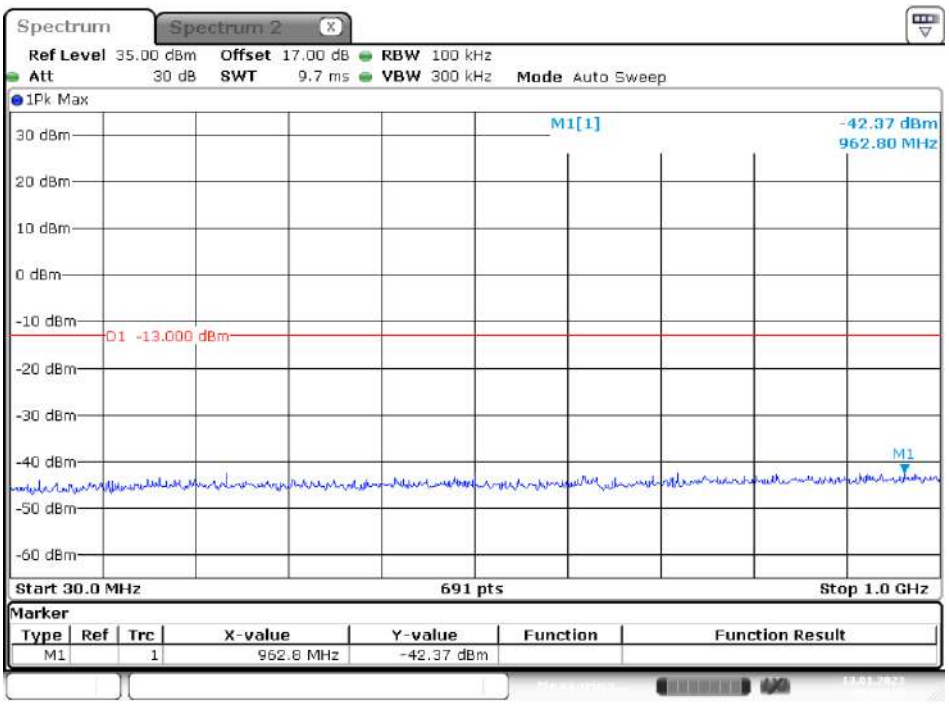
1 GHz – 20 GHz (3 MHz, QPSK, High Channel)



Fundamental

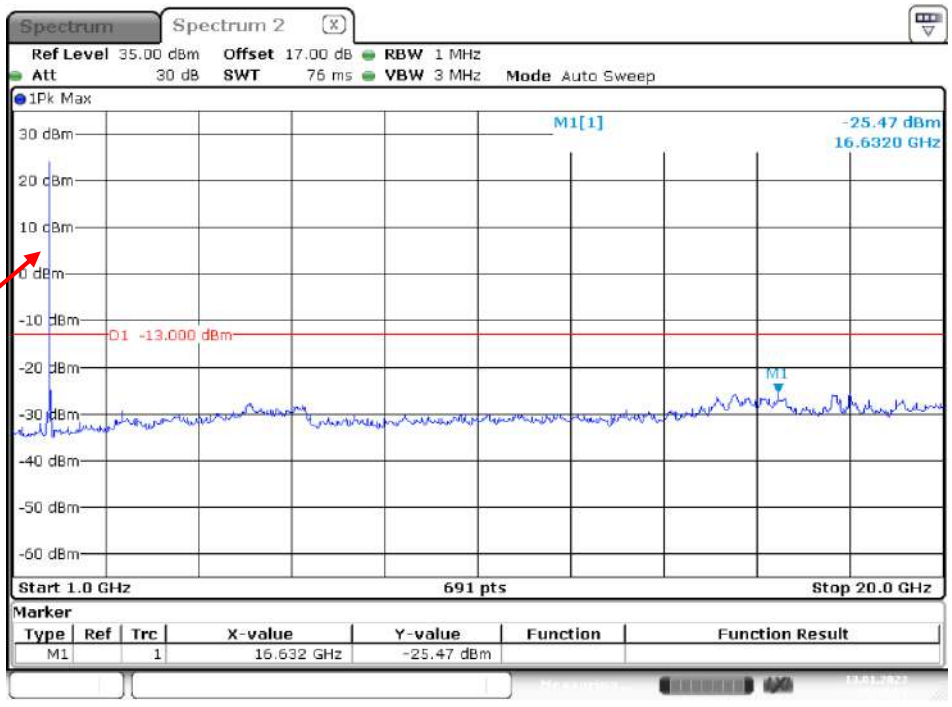
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (5 MHz, QPSK, High Channel)



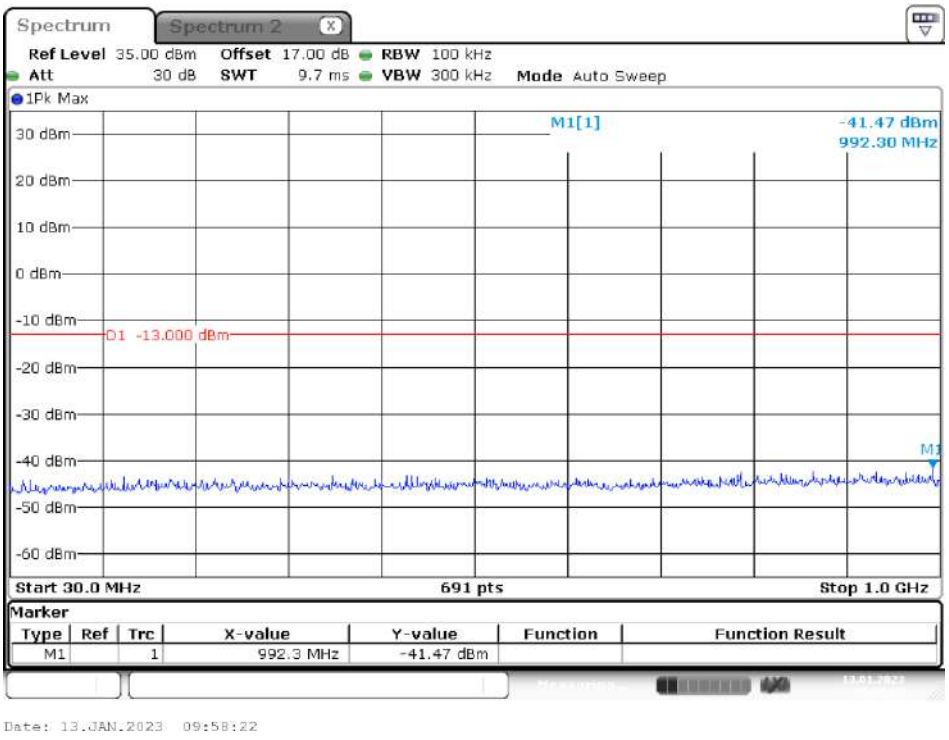
1 GHz – 20 GHz (5 MHz, QPSK, High Channel)

Fundamental

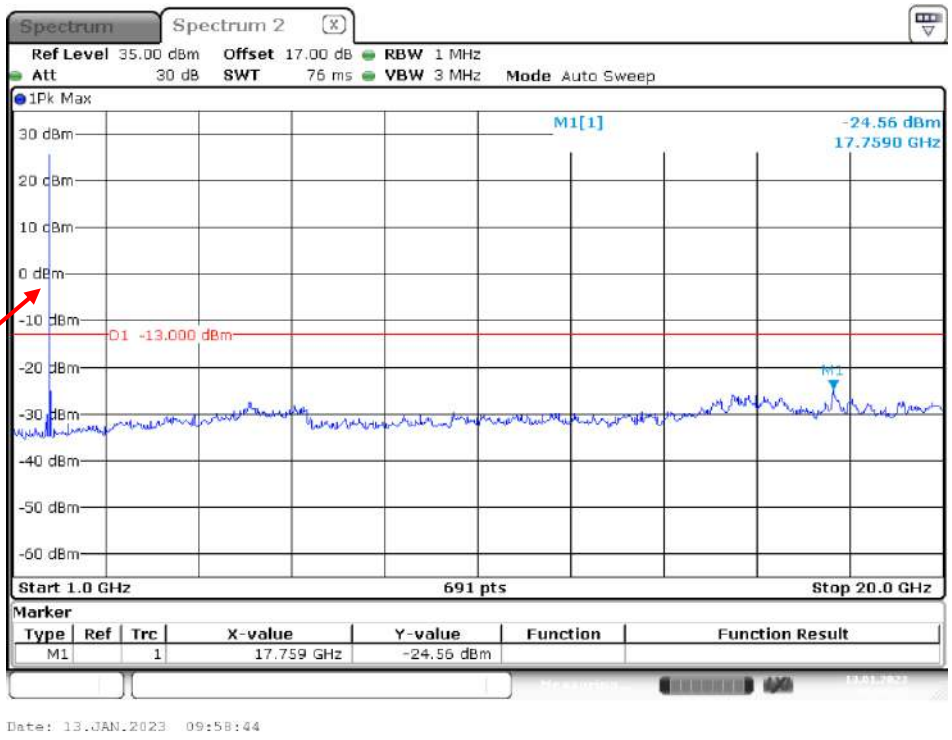


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (10 MHz, QPSK, High Channel)



1 GHz – 20 GHz (10 MHz, QPSK, High Channel)

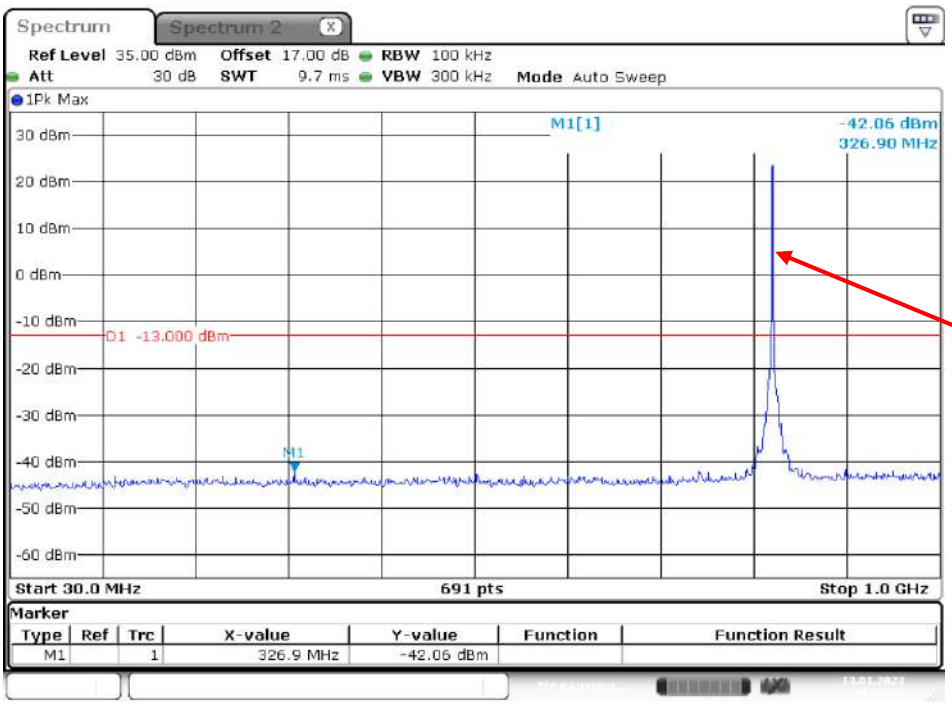


Fundamental

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

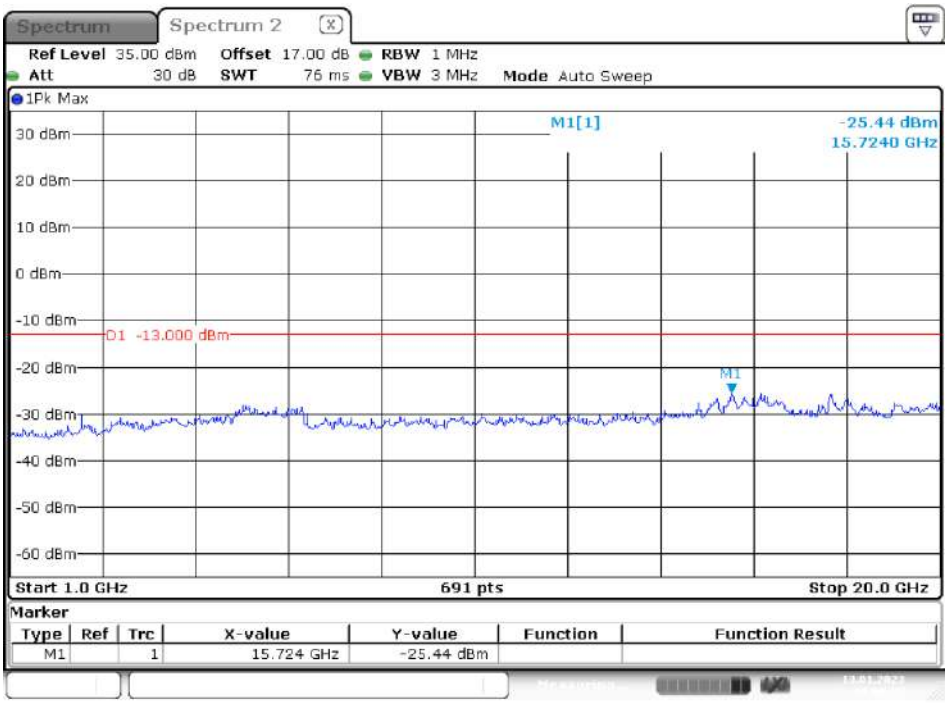
LTE Band 5

30 MHz – 1 GHz (QPSK, 1.4 MHz, Low Channel)



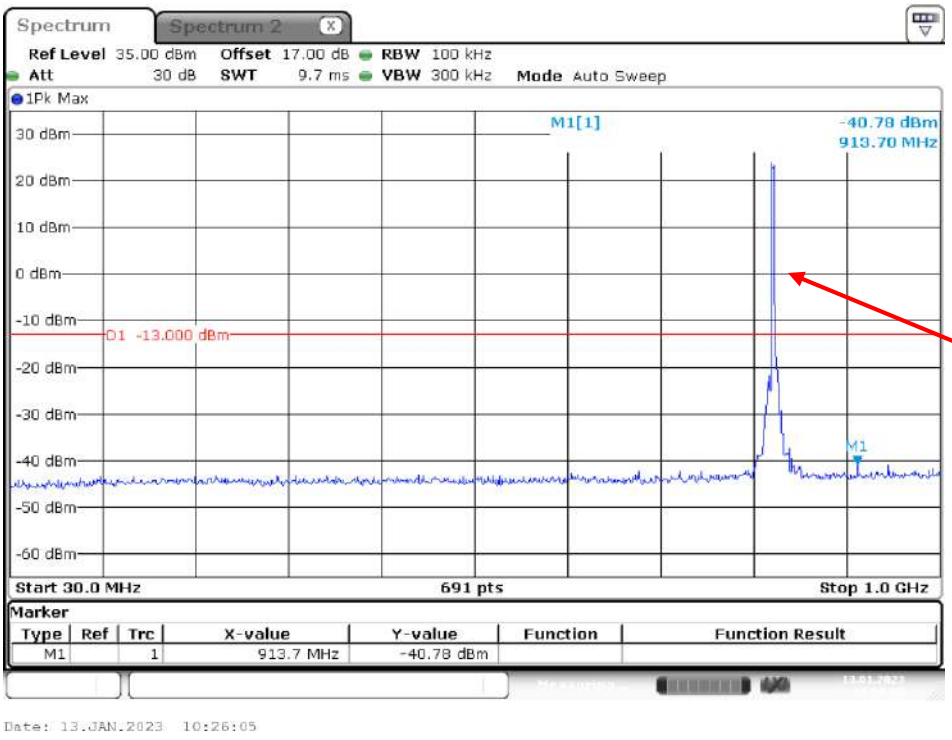
Fundamental

1 GHz – 20 GHz (QPSK, 1.4 MHz, Low Channel)



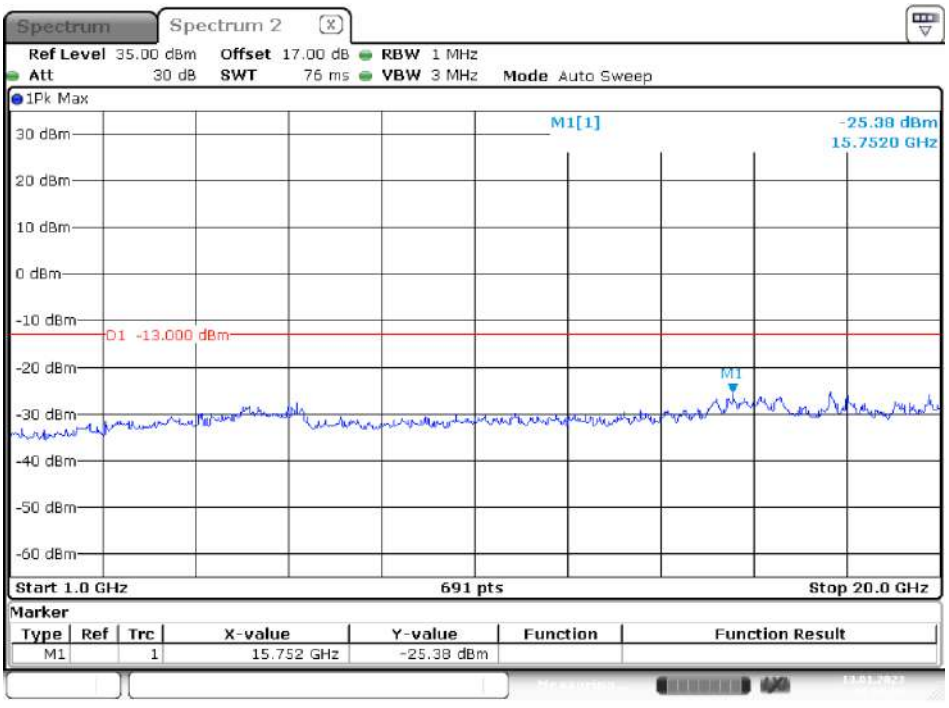
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (QPSK, 3.0 MHz, Low Channel)



Date: 13.JAN.2023 10:26:05

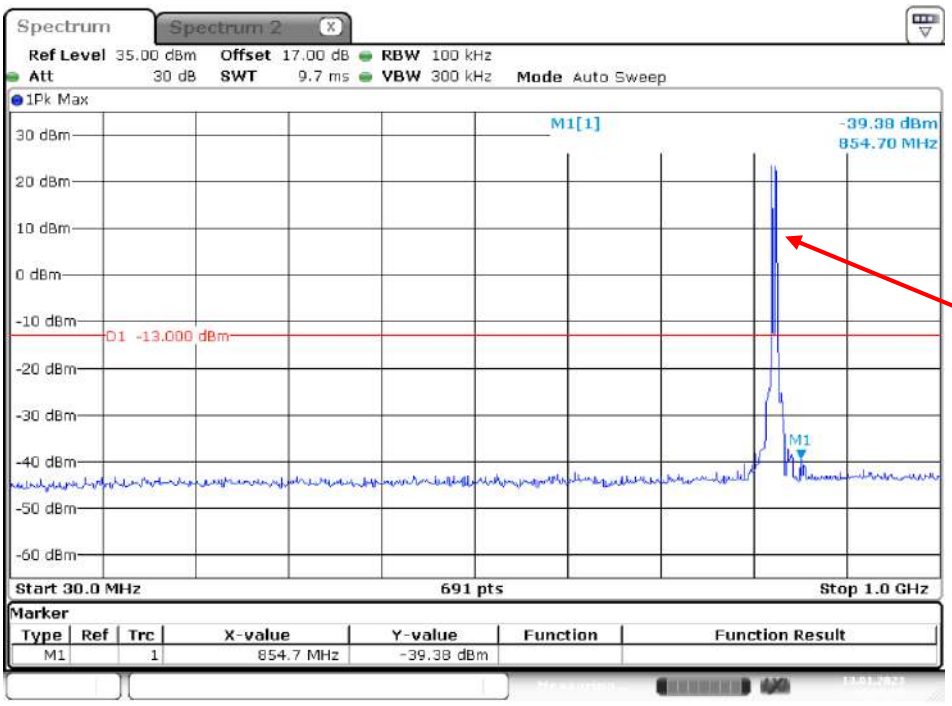
1 GHz – 20 GHz (QPSK, 3.0 MHz, Low Channel)



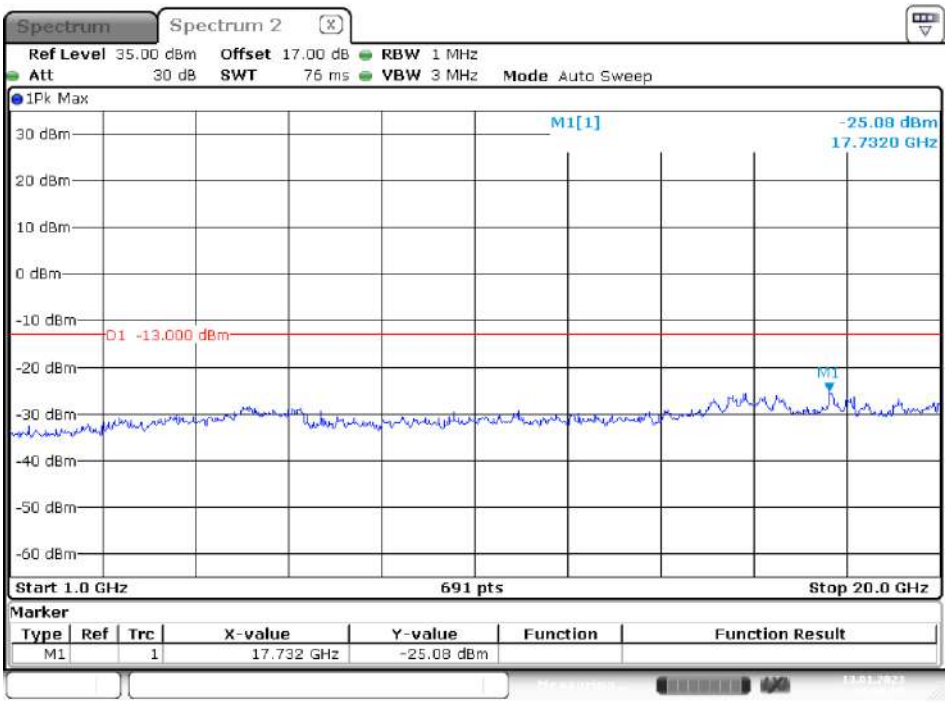
Date: 13.JAN.2023 10:26:24

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (QPSK, 5.0 MHz, Low Channel)

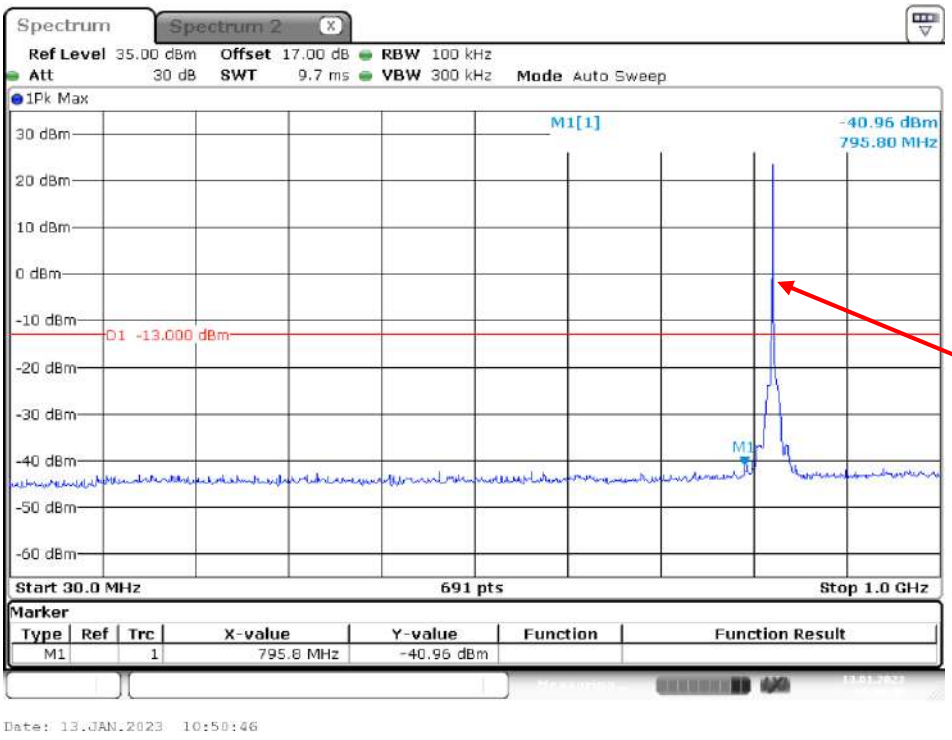


1 GHz – 20 GHz (QPSK, 5.0MHz, Low Channel)



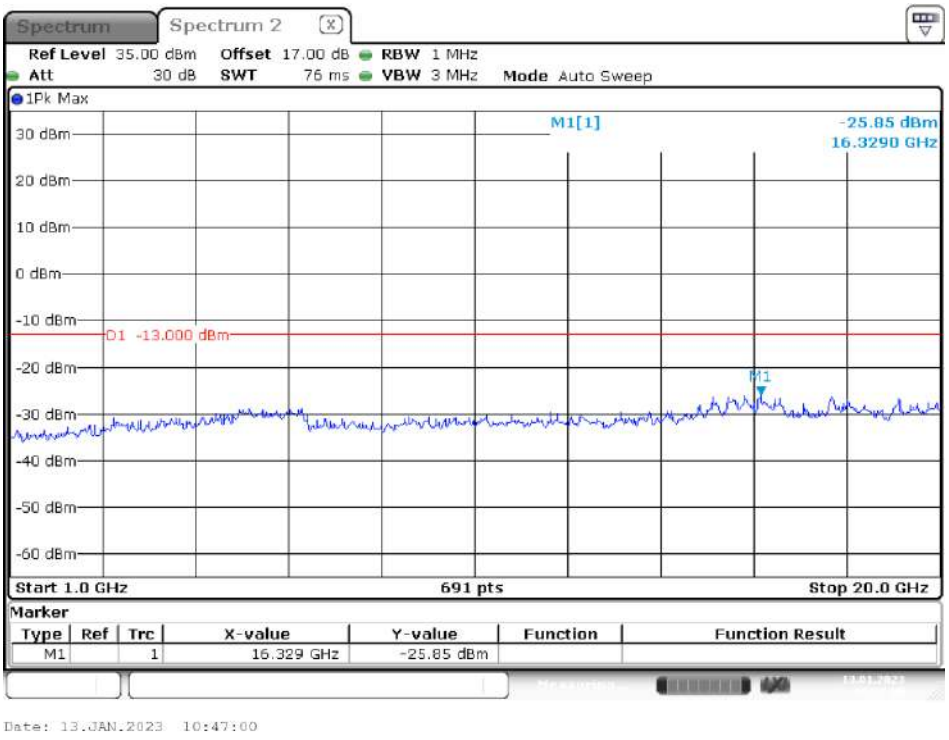
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (QPSK, 10.0 MHz, Low Channel)



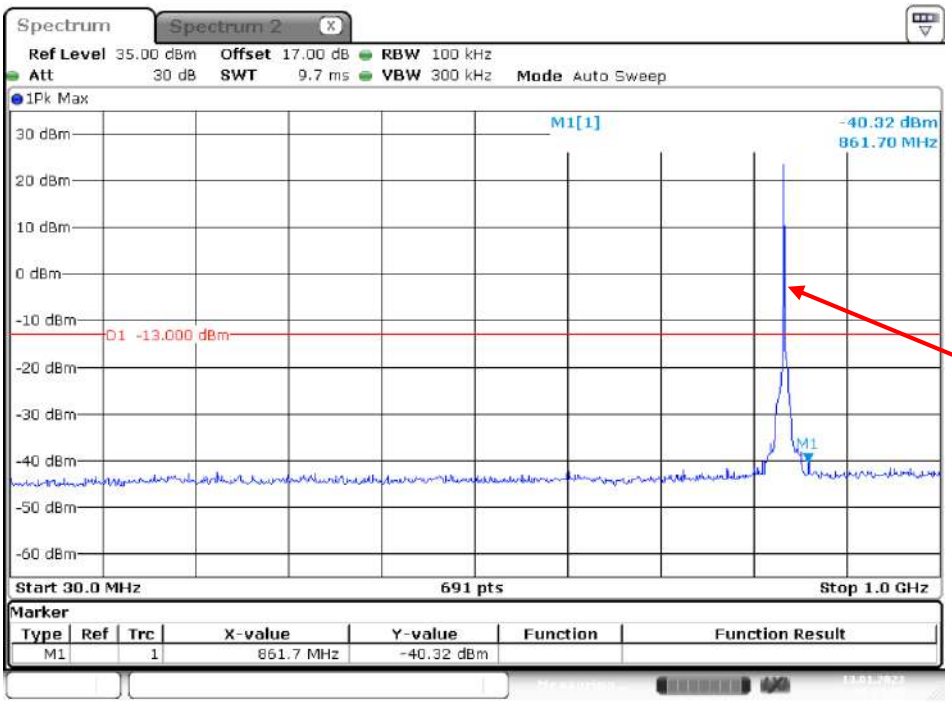
Fundamental

1 GHz – 20 GHz (QPSK, 10.0 MHz, Low Channel)



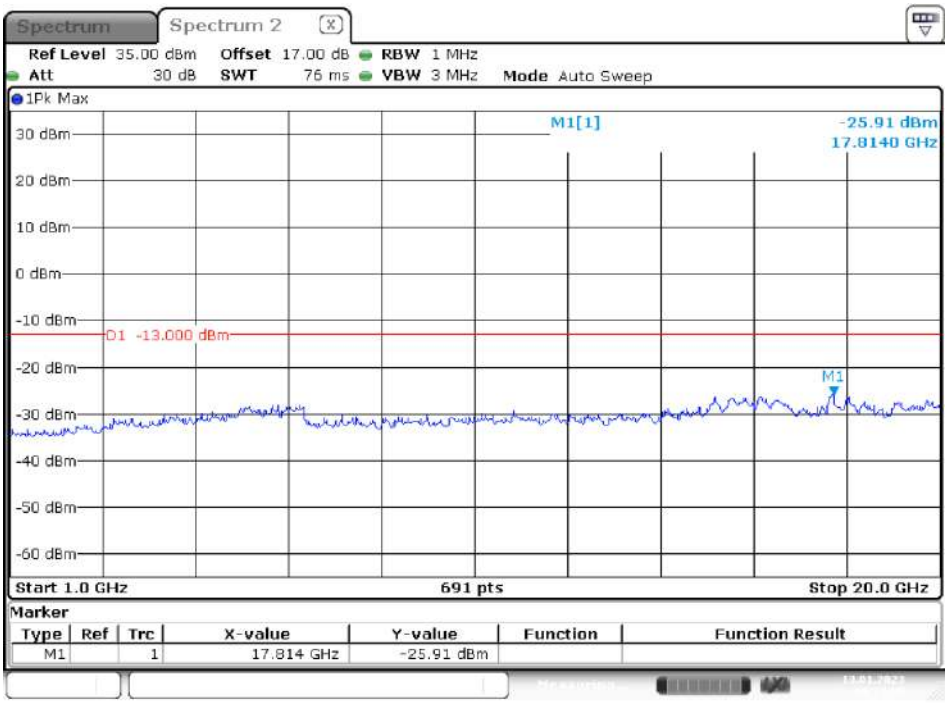
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (QPSK, 1.4 MHz, Middle Channel)



Date: 13.JAN.2023 10:21:22

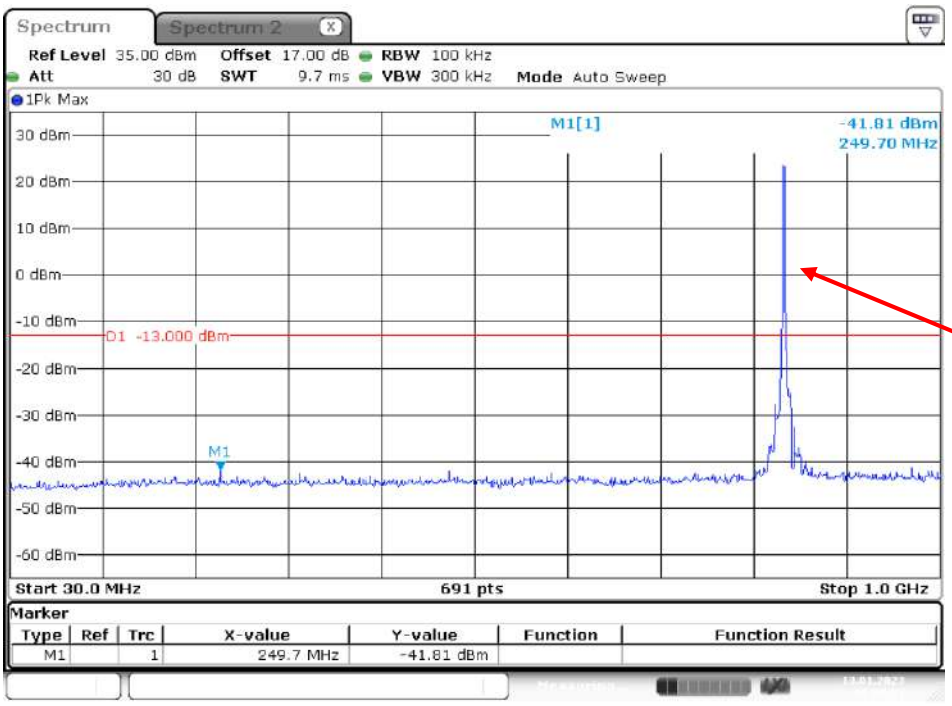
1 GHz –20 GHz (QPSK, 1.4 MHz, Middle Channel)



Date: 13.JAN.2023 10:13:31

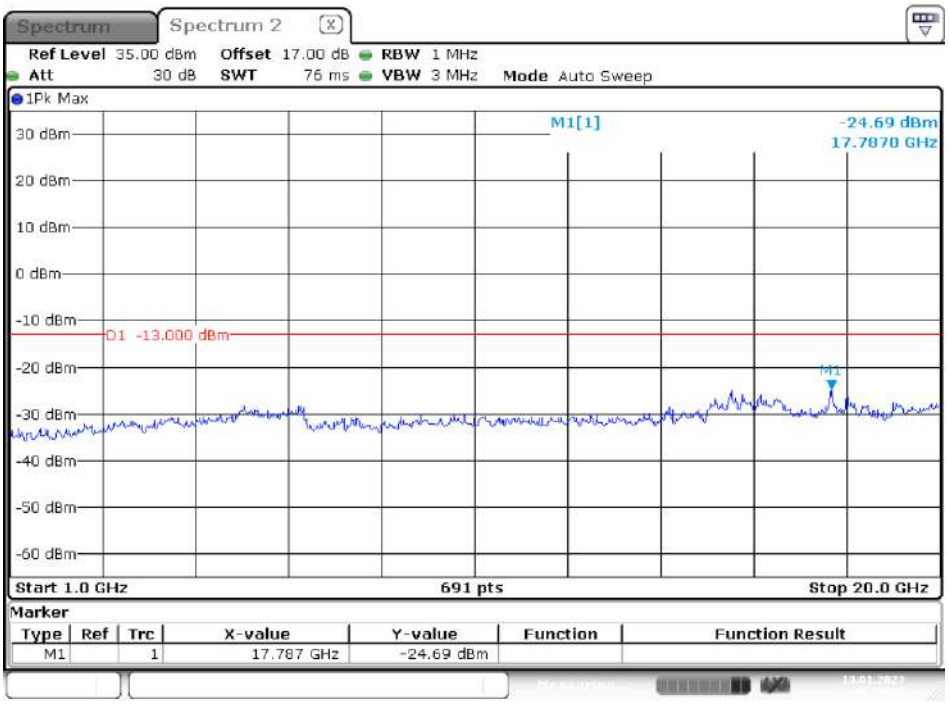
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (QPSK, 3.0 MHz, Middle Channel)



Date: 13.JAN.2023 10:29:01

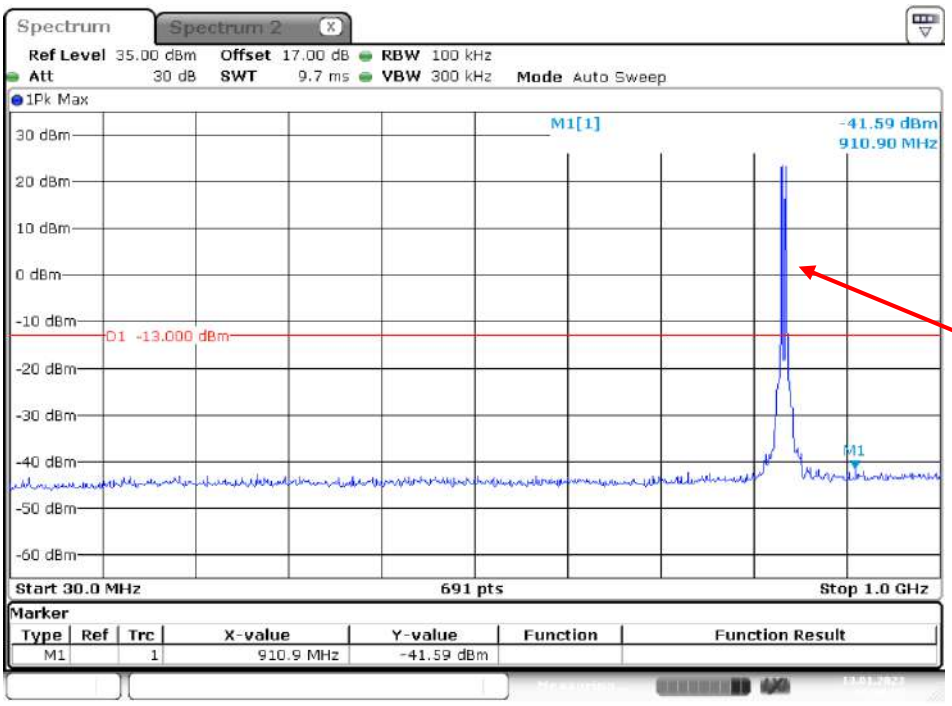
1 GHz – 20 GHz (QPSK, 3.0 MHz, Middle Channel)



Date: 13.JAN.2023 10:29:14

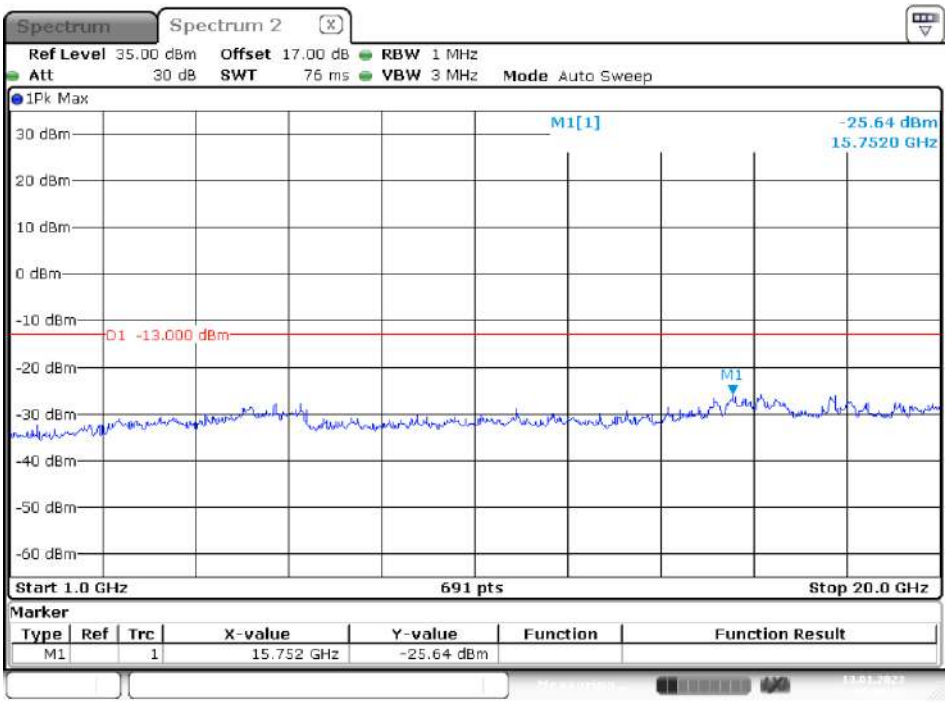
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (QPSK, 5.0 MHz, Middle Channel)



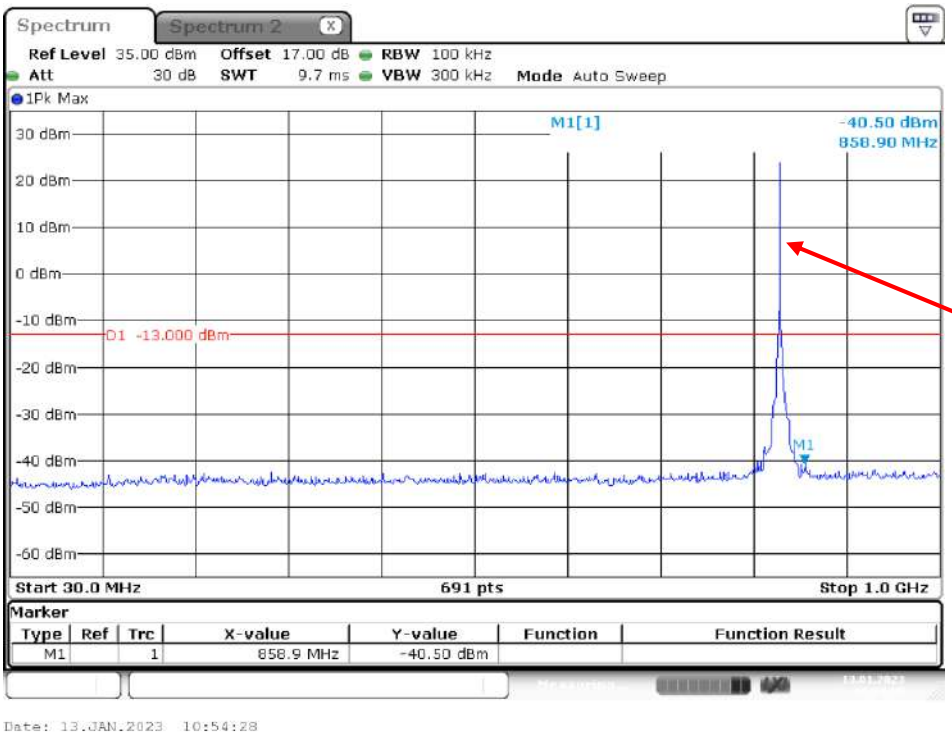
Fundamental

1 GHz – 20 GHz (QPSK, 5.0MHz, Middle Channel)



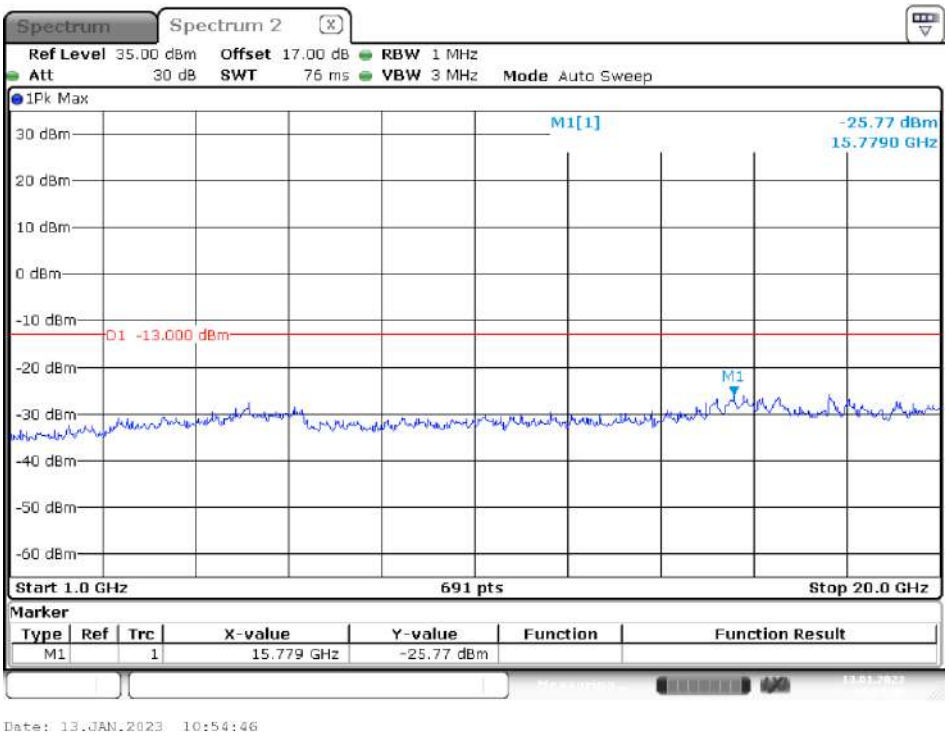
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (QPSK, 10.0 MHz, Middle Channel)



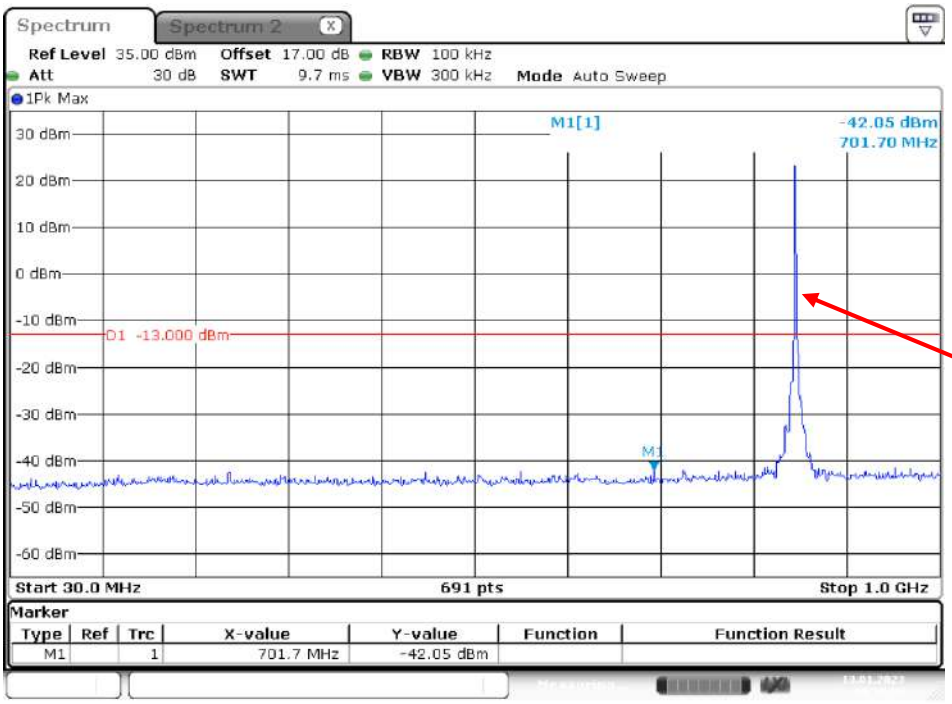
Fundamental

1 GHz – 20 GHz (QPSK, 10.0 MHz, Middle Channel)



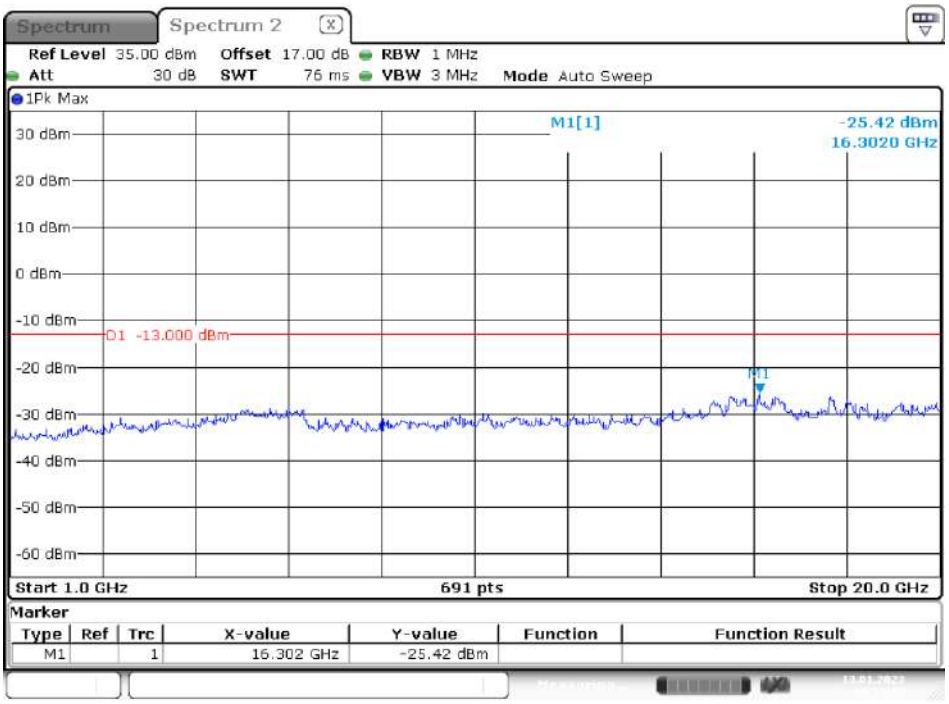
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

30 MHz – 1 GHz (QPSK, 1.4 MHz, High Channel)



Fundamental

1 GHz – 20 GHz (QPSK, 1.4 MHz, High Channel)



Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)