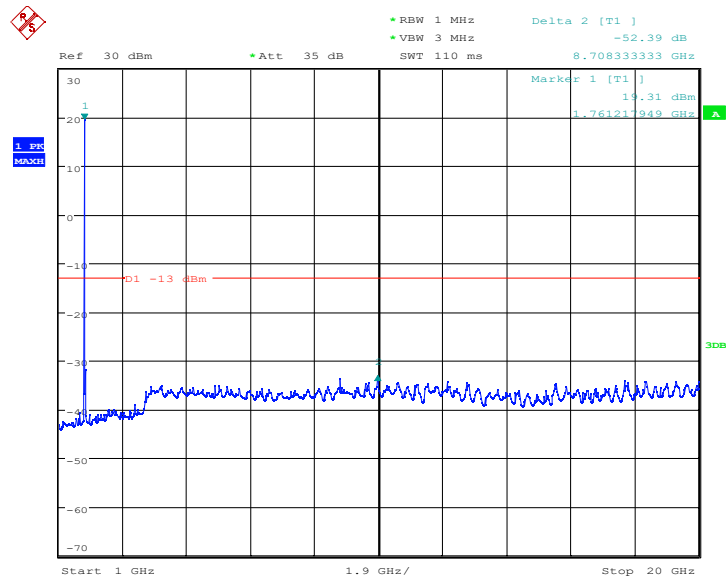


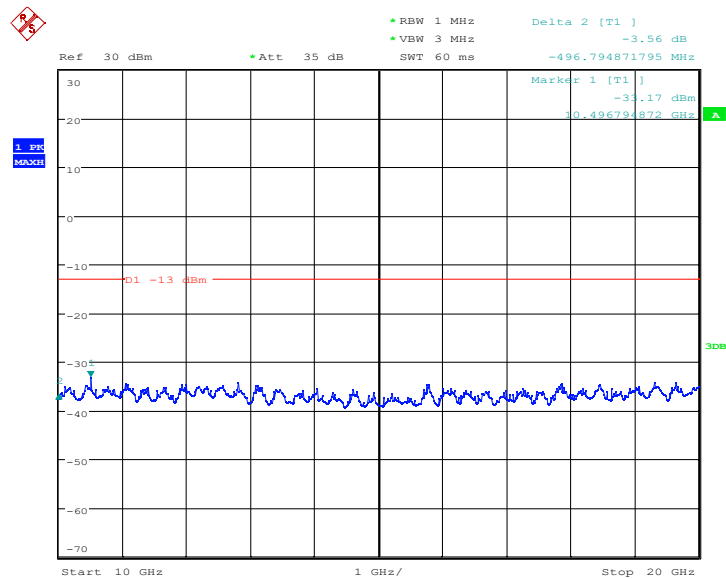


Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:45:30

Band66-High Channel-10MHz Bandwidth-1GHz to 10GHz



Date: 18.JUL.2022 11:44:58

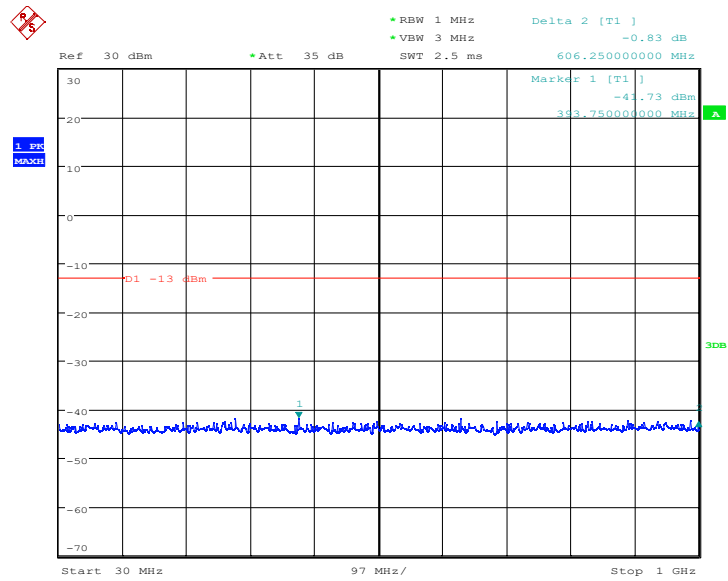
Band66-High Channel-10MHz Bandwidth-10GHz to 20GHz

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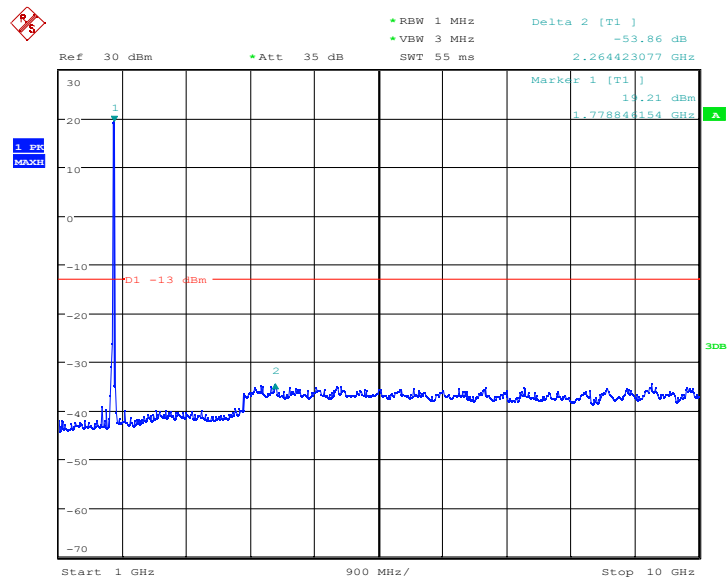


Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:48:59

Band66-High Channel-15MHz Bandwidth-30MHz to 1GHz



Date: 18.JUL.2022 11:49:23

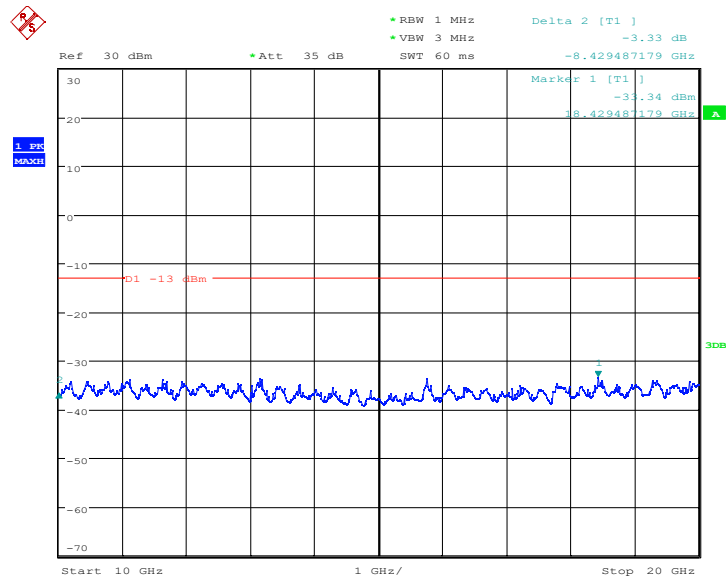
Band66-High Channel-15MHz Bandwidth-1GHz to 10GHz

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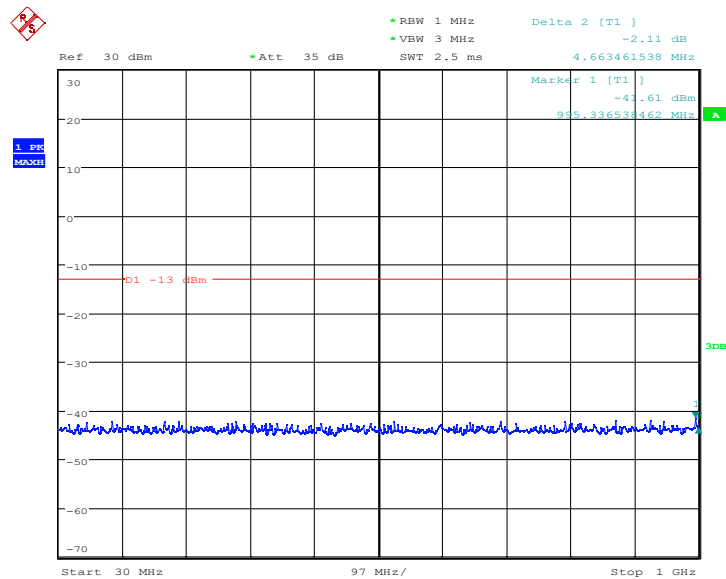


Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:49:56

Band66-High Channel-15MHz Bandwidth-10GHz to 20GHz



Date: 18.JUL.2022 11:57:07

Band66-High Channel-20MHz Bandwidth-30MHz to 1GHz

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• RBW 1 MHz
 • VBW 3 MHz
 • Delta 2 {T1} -54.35 dB
 • SWT 55 ms
 • 2.033653846 GHz

Ref 30 dBm
 Att 35 dB

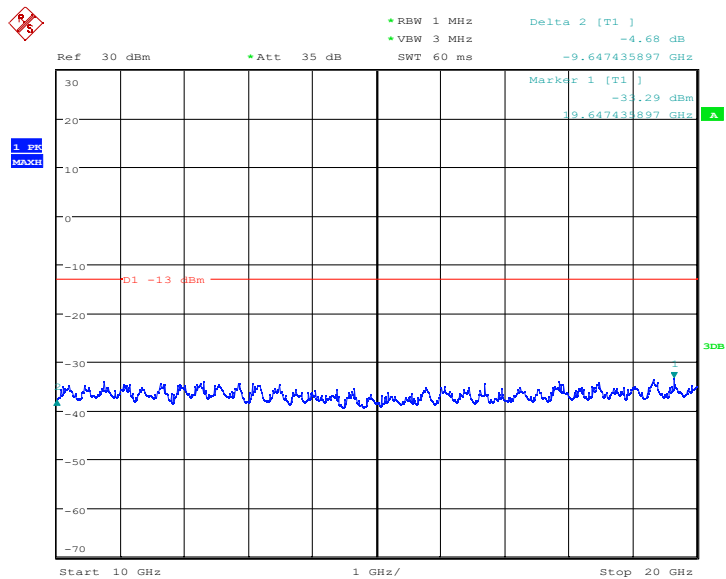
Marker 1 [T1]
 1.778841154 GHz
 19.62 dBm

D1 -13 dBm

30 dB

Start 1 GHz
 Stop 10 GHz

Band66-High Channel-20MHz Bandwidth-1GHz to 10GHz

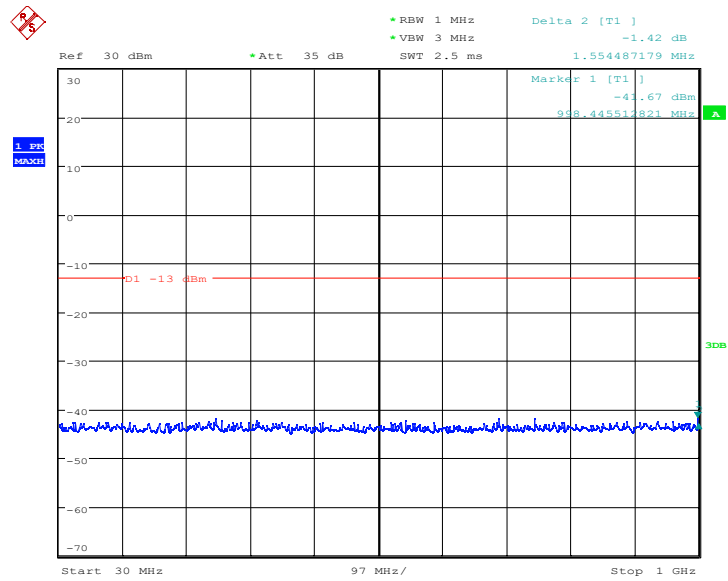


Band66-High Channel-20MHz Bandwidth-10GHz to 20GHz

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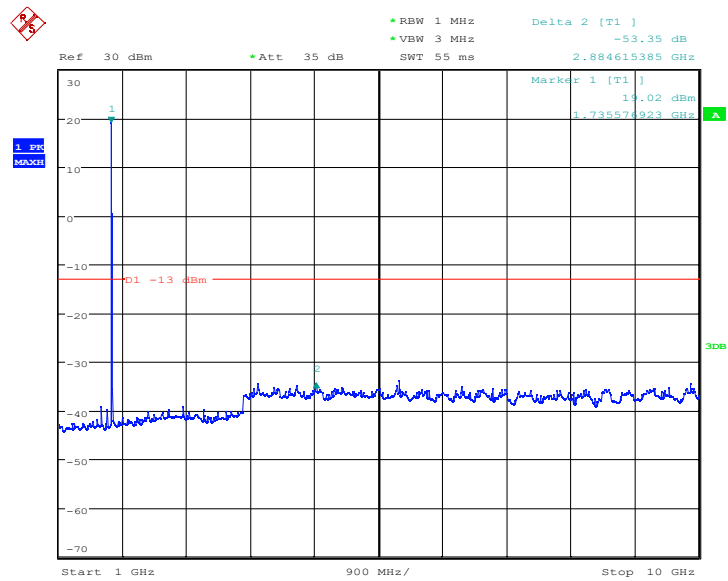


Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:28:56

Band66-Middle Channel-1.4MHz Bandwidth-30MHz to 1GHz



Date: 18.JUL.2022 11:28:29

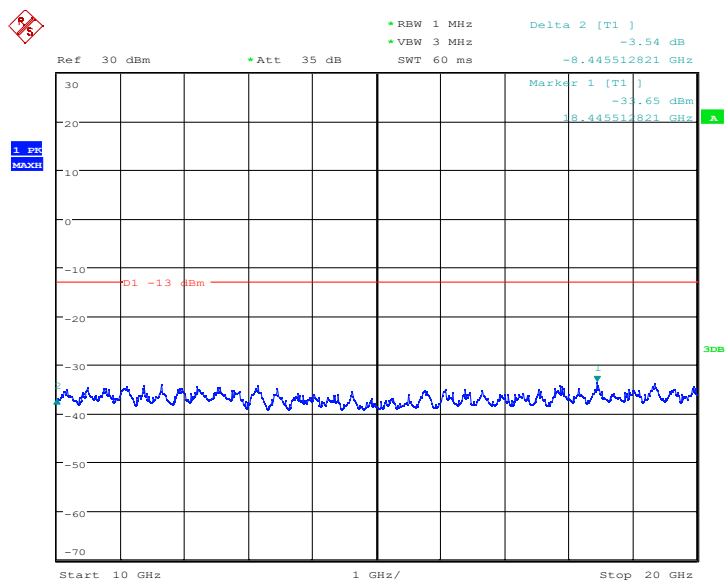
Band66-Middle Channel-1.4MHz Bandwidth-1GHz to 10GHz

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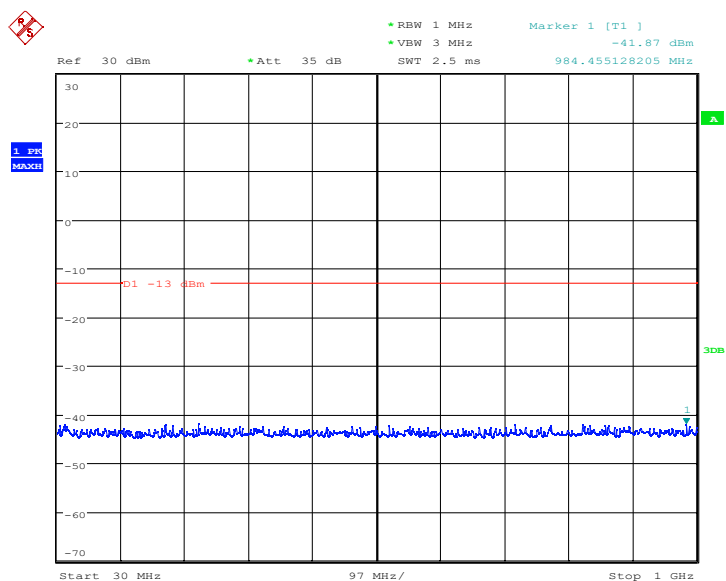


Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:28:11

Band66-Middle Channel-1.4MHz Bandwidth-10GHz to 20GHz



Date: 18.JUL.2022 11:35:48

Band66-Middle Channel-3MHz Bandwidth-30MHz to 1GHz

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Ref 30 dBm Att 35 dB RBW 1 MHz VBW 3 MHz Delta 2 [T1] -53.58 dB SWT 55 ms 3.158653846 GHz

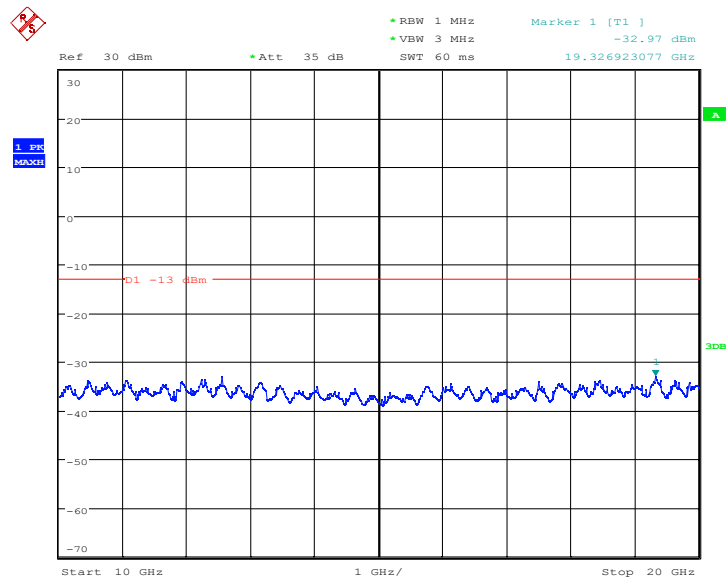
Marker 1 [T1] 1.735574923 GHz 19.16 dBm

1 5% 662441

01 -13 dBm

Start 1 GHz 900 MHz/ Stop 10 GHz

Band66-Middle Channel-3MHz Bandwidth-1GHz to 10GHz

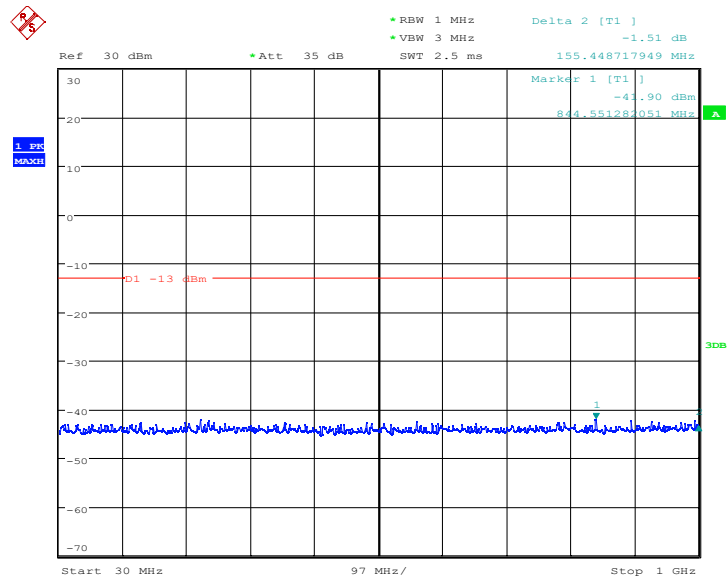


Band66-Middle Channel-3MHz Bandwidth-10GHz to 20GHz

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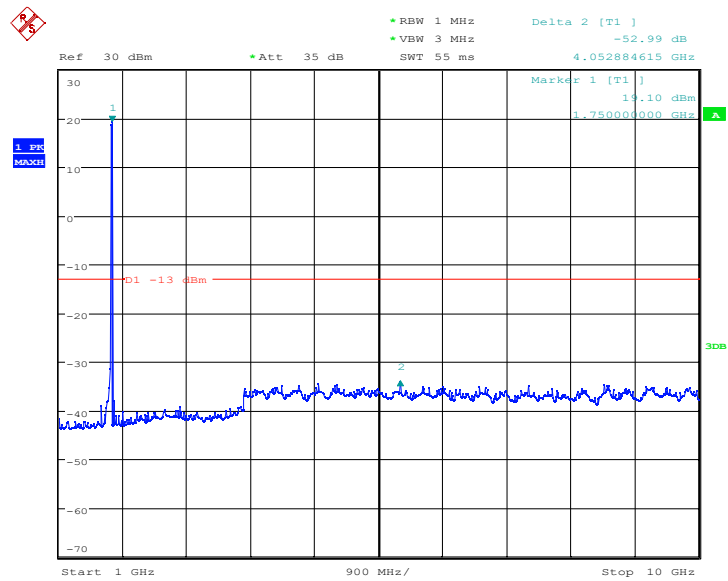


Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:40:37

Band66-Middle Channel-5MHz Bandwidth-30MHz to 1GHz



Date: 18.JUL.2022 11:40:22

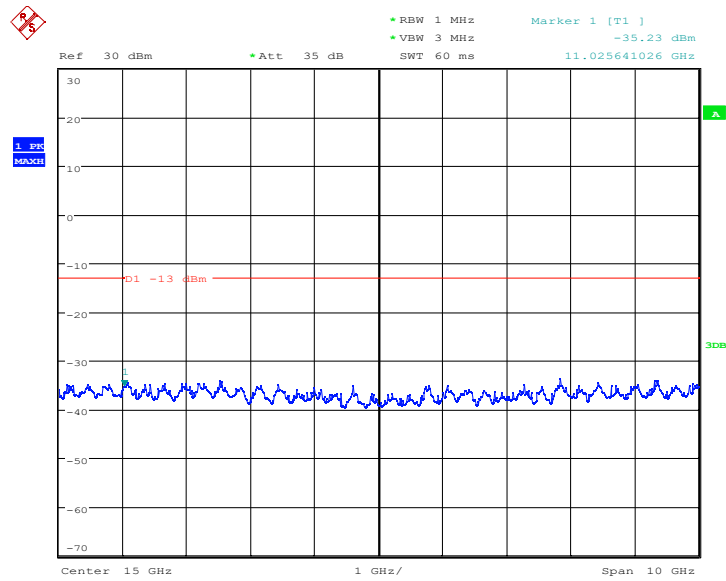
Band66-Middle Channel-5MHz Bandwidth-1GHz to 10GHz

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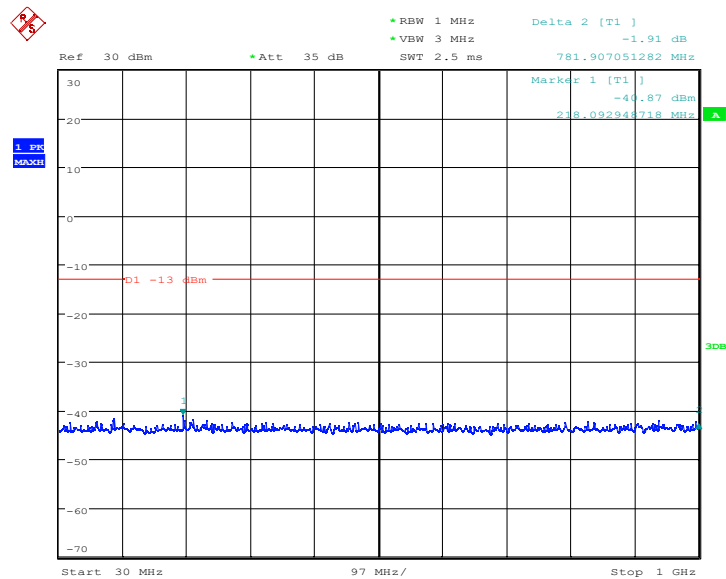


Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:39:55

Band66-Middle Channel-5MHz Bandwidth-10GHz to 20GHz



Date: 18.JUL.2022 11:43:42

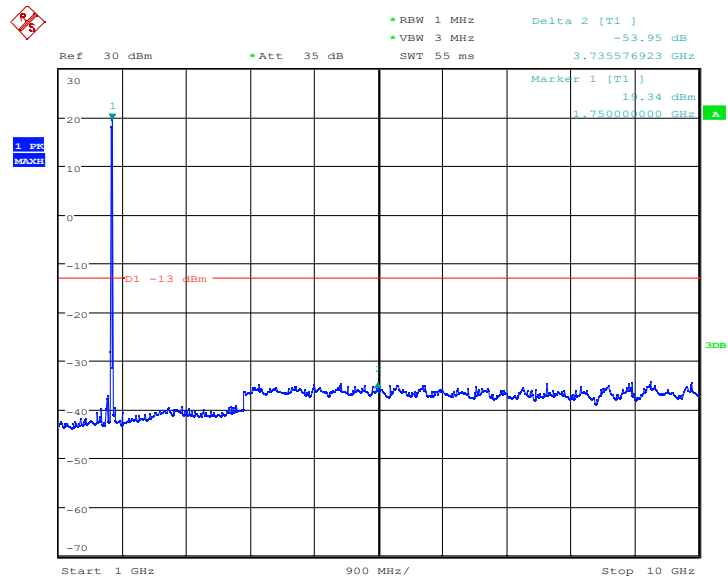
Band66-Middle Channel-10MHz Bandwidth-30MHz to 1GHz

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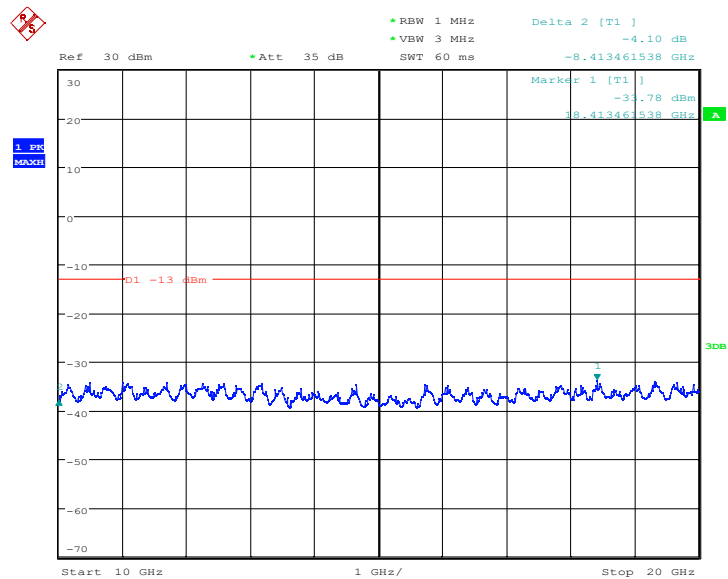


Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:44:16

Band66-Middle Channel-10MHz Bandwidth-1GHz to 10GHz



Date: 18.JUL.2022 11:44:33

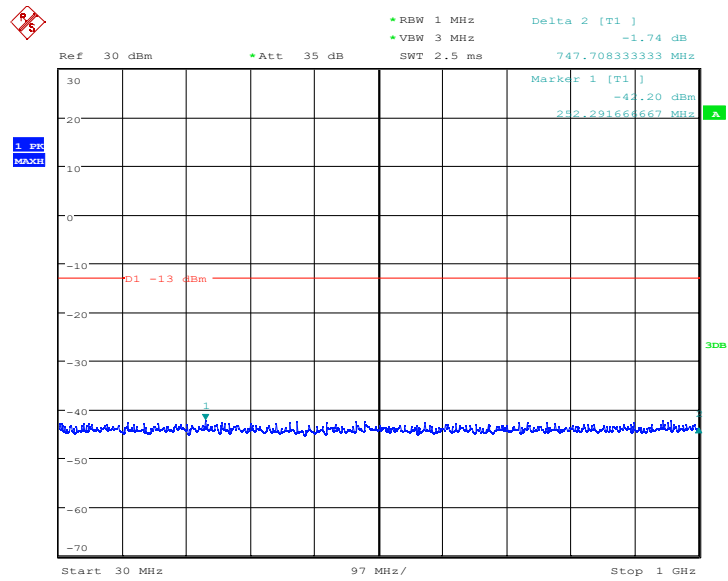
Band66-Middle Channel-10MHz Bandwidth-10GHz to 20GHz

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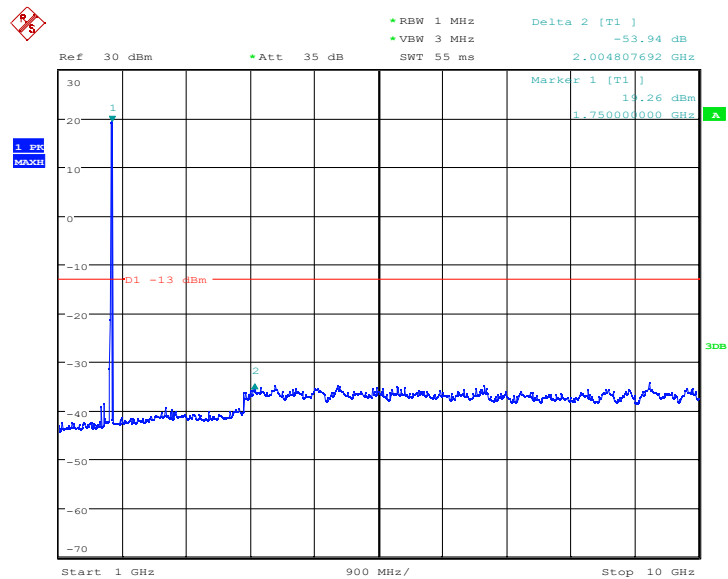


Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:48:31

Band66-Middle Channel-15MHz Bandwidth-30MHz to 1GHz



Date: 18.JUL.2022 11:48:11

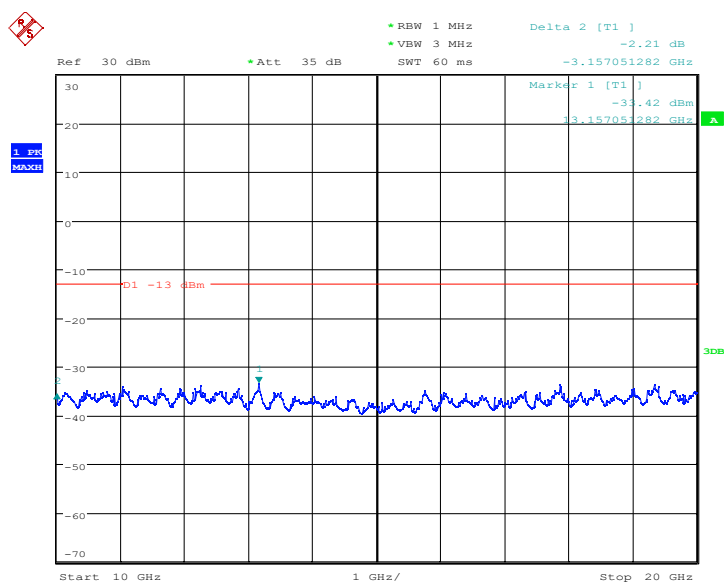
Band66-Middle Channel-15MHz Bandwidth-1GHz to 10GHz

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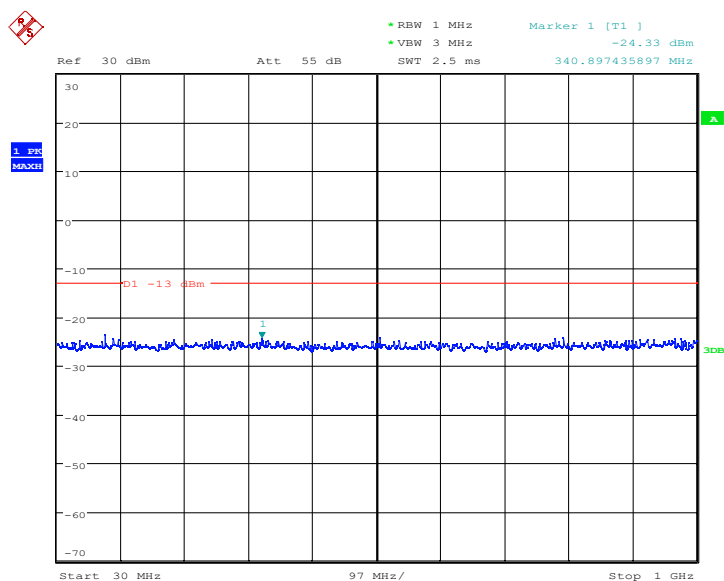


Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:47:52

Band66-Middle Channel-15MHz Bandwidth-10GHz to 20GHz



Date: 18.JUL.2022 11:53:54

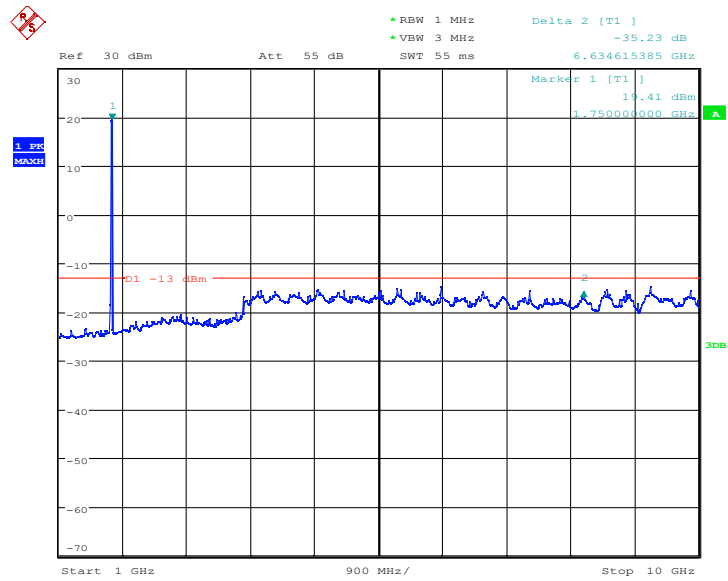
Band66-Middle Channel-20MHz Bandwidth-30MHz to 1GHz

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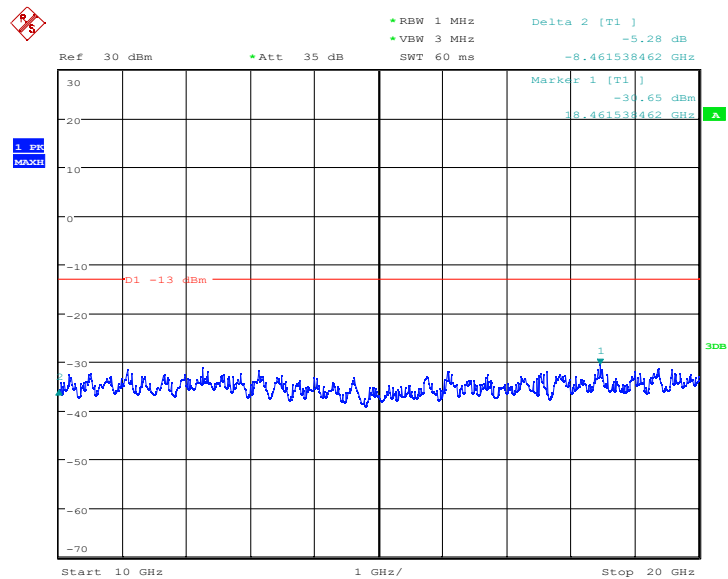


Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:55:22

Band66-Middle Channel-20MHz Bandwidth-1GHz to 10GHz



Date: 18.JUL.2022 11:55:51

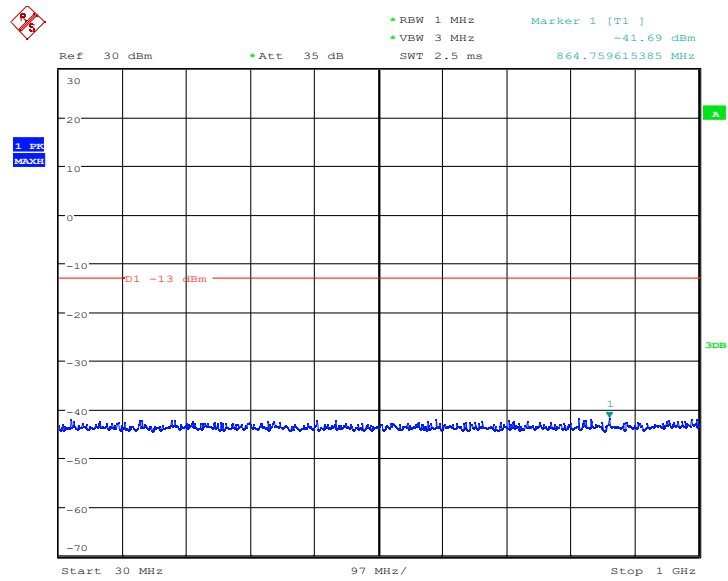
Band66-Middle Channel-20MHz Bandwidth-10GHz to 20GHz

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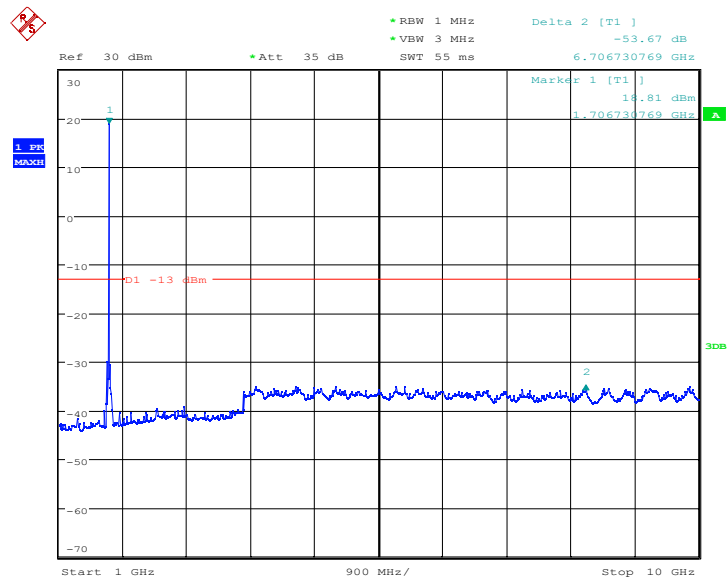


Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:24:41

Band66-Low Channel-1.4MHz Bandwidth-30MHz to 1GHz



Date: 18.JUL.2022 11:25:07

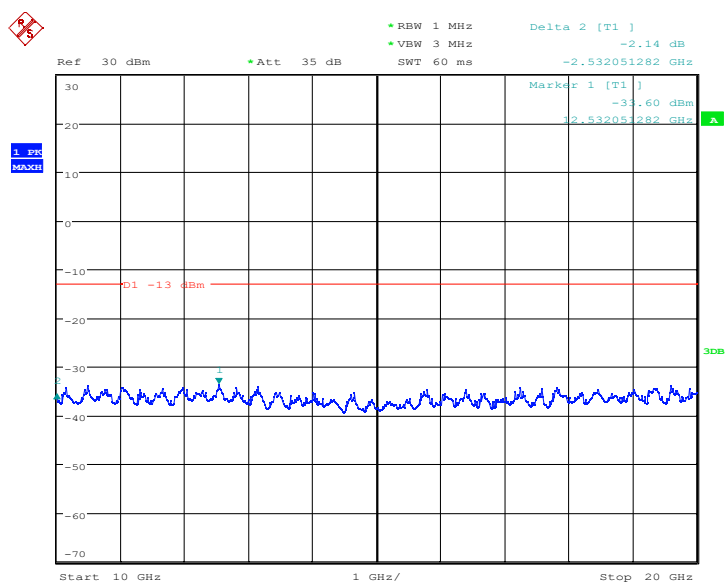
Band66-Low Channel-1.4MHz Bandwidth-1GHz to 10GHz

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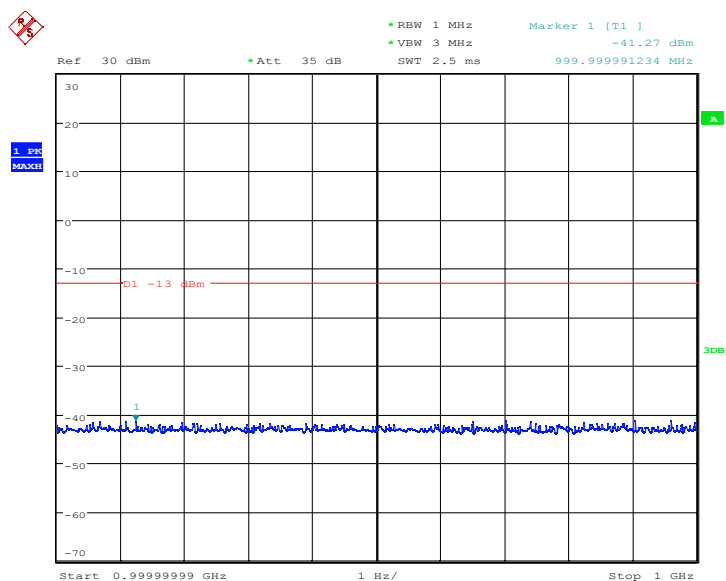


Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:25:38

Band66-Low Channel-1.4MHz Bandwidth-10GHz to 20GHz



Date: 18.JUL.2022 11:32:34

Band66-Low Channel-3MHz Bandwidth-30MHz to 1GHz

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Ref 30 dBm • Att 35 dB • RBW 1 MHz • VBW 3 MHz Delta 2 [T1] -53.91 dB

SWT 55 ms 2.697115385 GHz

1 5% MAG

Marker 1 [T1] 18.95 dBm 1.706734769 GHz

3dB

Start 1 GHz 900 MHz/ Stop 10 GHz

* RBW 1 MHz
 * VBW 3 MHz
 Delta 2 [T1]
 -4.70 dB
 -9.647435897 GHz
 Ref 30 dBm
 * Att 35 dB
 SWT 60 ms

Marker 1 [T1]
 -33.57 dBm
 -9.647435897 GHz

1 50
 MAGN

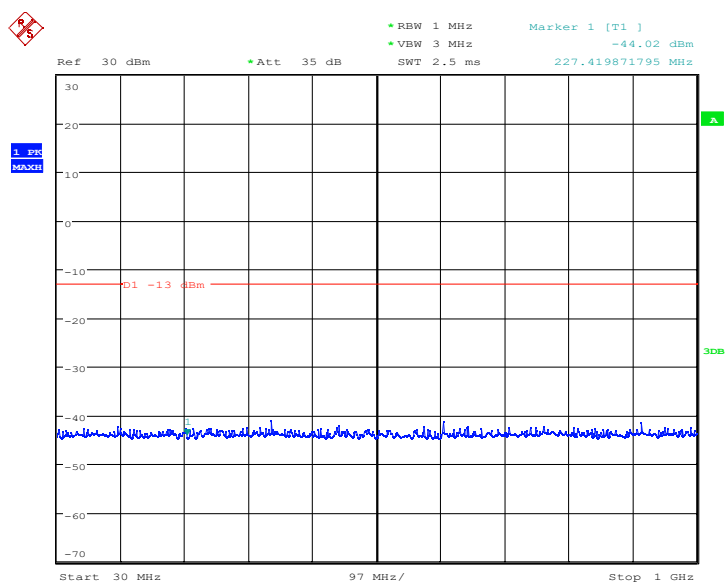
D1 -13 dBm

3dB

Center 15 GHz
 1 GHz/
 Span 10 GHz

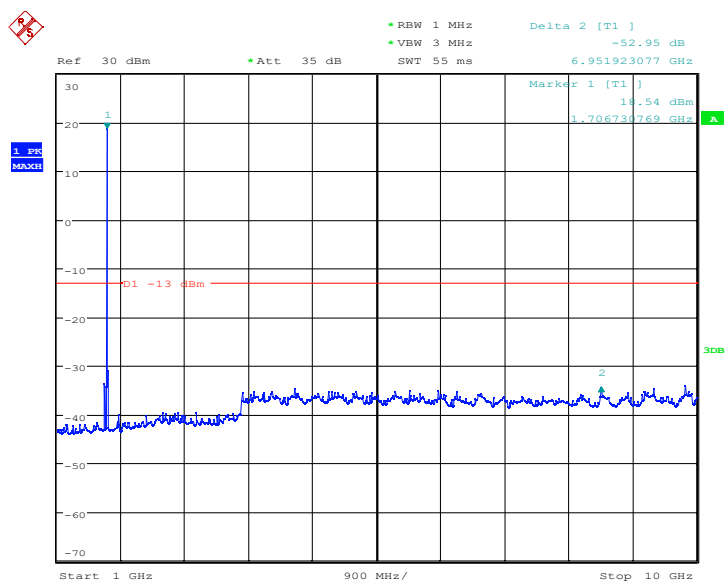


Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:38:30

Band66-Low Channel-5MHz Bandwidth-30MHz to 1GHz



Date: 18.JUL.2022 11:39:09

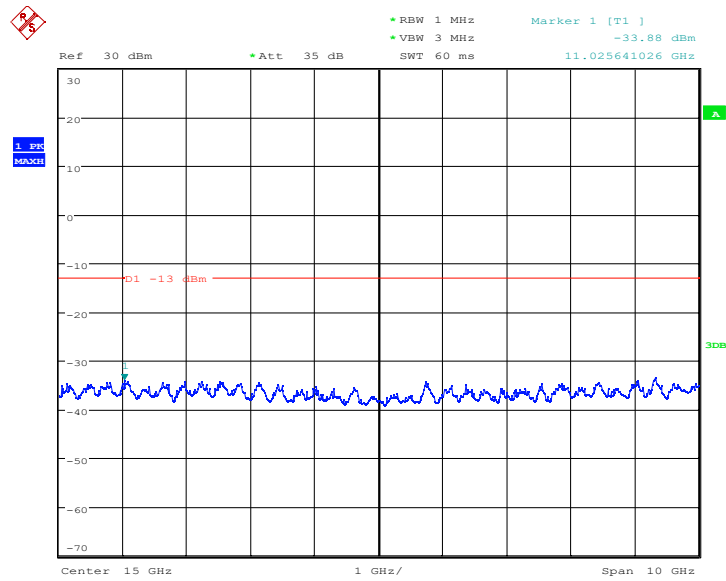
Band66-Low Channel-5MHz Bandwidth-1GHz to 10GHz

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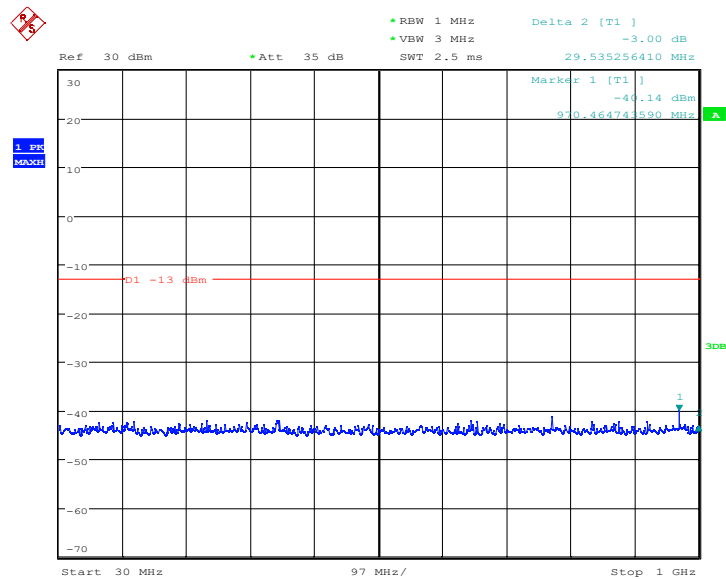


Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:39:30

Band66-Low Channel-5MHz Bandwidth-10GHz to 20GHz



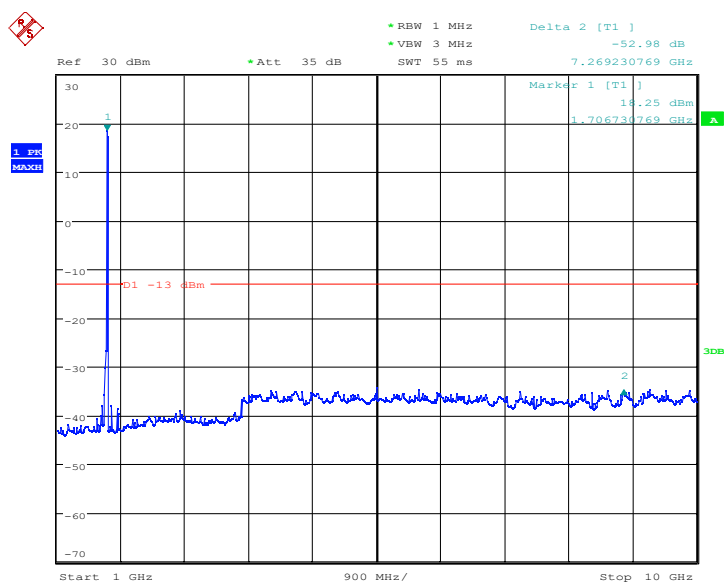
Date: 18.JUL.2022 11:43:09

Band66-Low Channel-10MHz Bandwidth-30MHz to 1GHz

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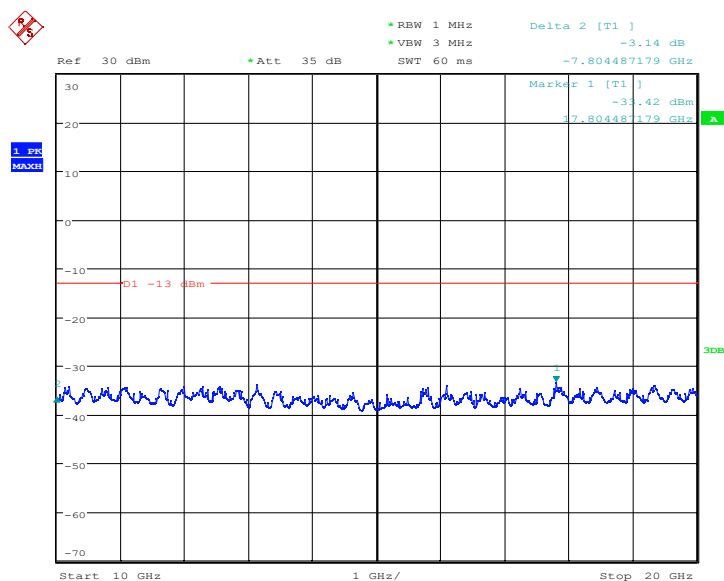
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Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:42:56

Band66-Low Channel-10MHz Bandwidth-1GHz to 10GHz



Date: 18.JUL.2022 11:42:26

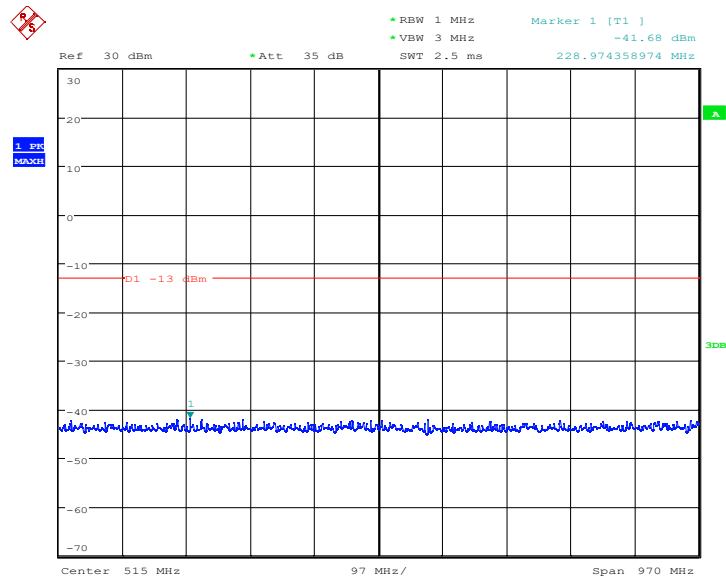
Band66-Low Channel-10MHz Bandwidth-10GHz to 20GHz

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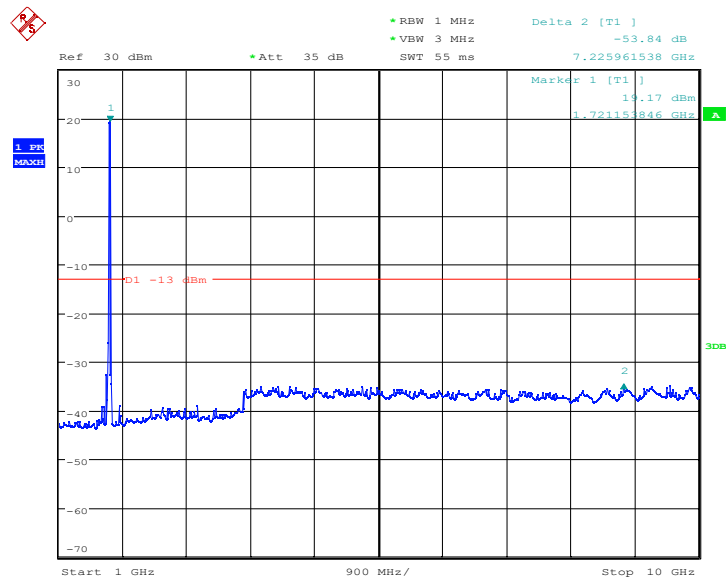


Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:46:46

Band66-Low Channel-15MHz Bandwidth-30MHz to 1GHz



Date: 18.JUL.2022 11:47:19

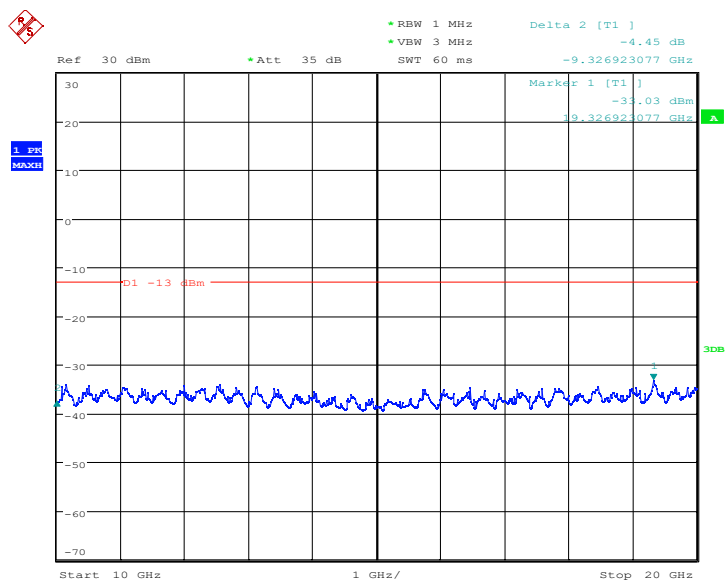
Band66-Low Channel-15MHz Bandwidth-1GHz to 10GHz

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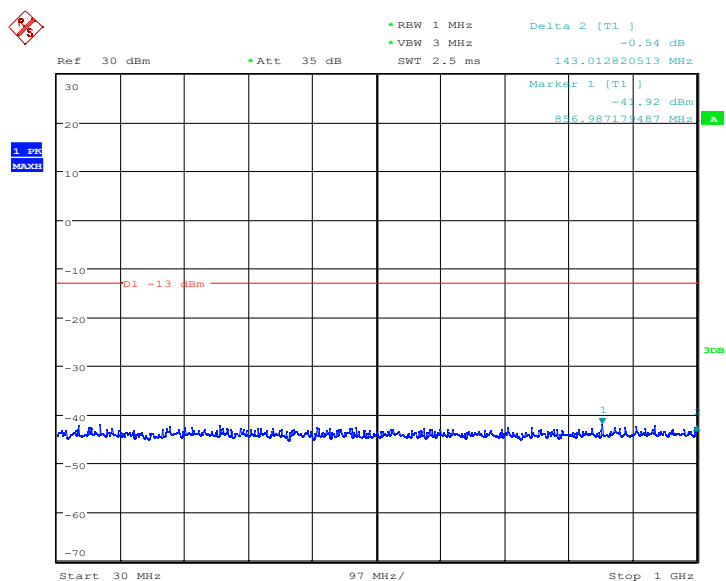


Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:47:34

Band66-Low Channel-15MHz Bandwidth-10GHz to 20GHz



Date: 18.JUL.2022 11:51:21

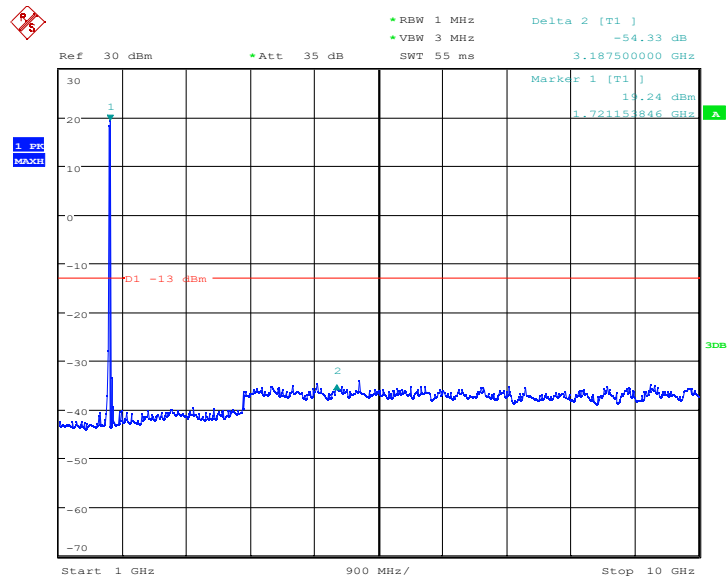
Band66-Low Channel-20MHz Bandwidth-30MHz to 1GHz

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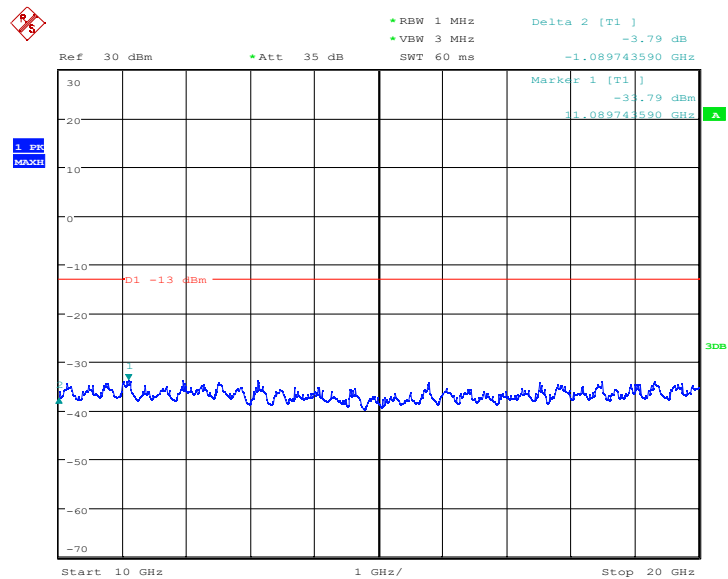


Report No.: I22W00051-WWAN RF-Rev4



Date: 18.JUL.2022 11:51:05

Band66-Low Channel-20MHz Bandwidth-1GHz to 10GHz



Date: 18.JUL.2022 11:50:47

Band66-Low Channel-20MHz Bandwidth-10GHz to 20GHz

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6.6. Radiated Spurious Emission

Specifications:	FCC Part 2.1051, 2.1053, 22.917
DUT Serial Number:	869951034443253
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 22.917 (a), i.e., Out of Band emissions. 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.

According to Part 24.238 (a), i.e., Out of Band emissions. 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, so the limit level is: $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$.

According to Part 27.53(c):

On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

According to Part 27.53(h):

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 Bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

According to Part 27.53(g):

For operations in the 600 MHz Band and the 698-746 MHz Band, the power of any emission outside a licensee's frequency Band(s) of operation shall be attenuated below the transmitter power (P) within the licensed Band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution Bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz Bands immediately outside and adjacent to a licensee's frequency block, a resolution Bandwidth of at least 30 kHz may be employed.

According to Part 90.691:

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

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(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

Limits for Radiated spurious emissions(UE)	
Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty (30MHz-150MHz)	5.15 dB (k=2)
Expanded Uncertainty (150MHz-1GHz)	4.09dB (k=2)
Expanded Uncertainty (1GHz-3GHz)	2.92dB (k=2)
Expanded Uncertainty (3GHz-6GHz)	2.93dB (k=2)
Expanded Uncertainty (3GHz-20GHz)	2.69dB (k=2)

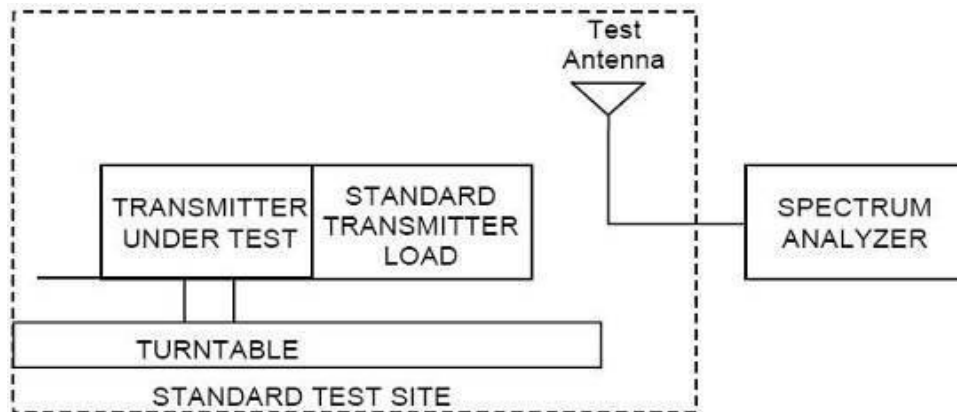
Test Setup:

The EUT was placed in an anechoic chamber. The Wireless Communications Test Set was used to set the TX channel and power level and modulate the TX signal with different bit patterns.

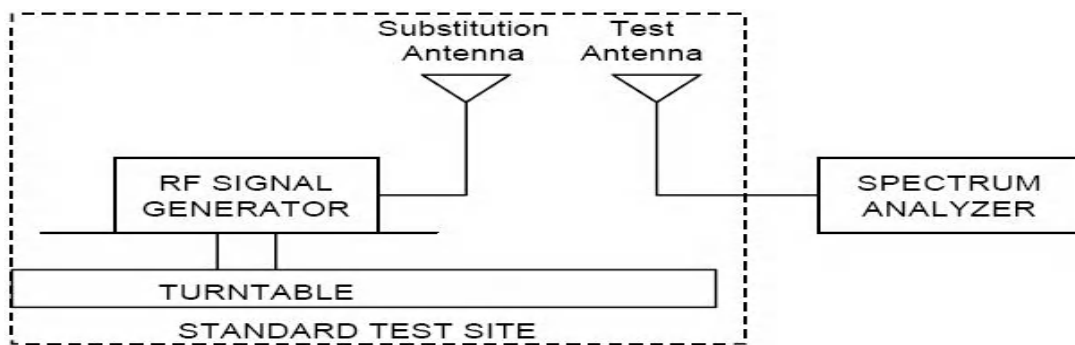
Test Method:

The measurement method is substitution method accordance with section 2.2.12 of ANSI/TIA-603-E: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

(a) Connect the equipment as illustrated and measure the spurious emissions as the method as above. The distance from the device to the antenna is 3 m .



(b) Reconnect the equipment as illustrated.



(c) Remove the transmitter and replace it with a substitution antenna. The center of the substitution antenna should be approximately at the same location as the center of the transmitter.

(d) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non-radiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.

(e) Repeat step d) with both antennas vertically polarized for each spurious frequency.

(f) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps d) and e) by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:

$$P_d(\text{dBm}) = P_g(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

where:

P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

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Test frequency: 30MHz-20GHz

All modes were tested,only the worst case was reported.

6.6.1 NB-IoT Radiated Spurious Emission Results

NB-IoT B2 Radiated Spurious Emission Results

Test Data (15kHz bandwidth BPSK Mode CH18601)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3700.2	-73.7	1.6	9.0	-66.3	V
5550.3	-71.9	2.1	10.3	-63.7	V
7400.4	-72.6	2.5	11.7	-63.4	V
9250.5	-70.0	3.1	12.4	-60.7	V
11100.6	-70.1	3.6	13.5	-60.2	V
12950.7	-69.3	3.7	14.1	-58.9	V

NB-IoT B4 Radiated Spurious Emission Results

Test Data (3.75kHz bandwidth QPSK Mode CH19951)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3420.2	-70.5	1.5	8.9	-63.1	V
5130.3	-71.8	2.0	9.8	-64.0	V
6840.4	-71.4	2.4	11.4	-62.4	V
8550.5	-69.7	3.2	12.2	-60.7	V
10260.6	-70.1	3.3	12.8	-60.6	V
11970.7	-69.1	4.2	14.0	-59.3	V

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NB-IoT B12 Radiated Spurious Emission Results

Test Data (15kHz bandwidth BPSK Mode CH23179)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1431.8	-60.9	0.9	1.8	-60.0	H
2147.7	-61.3	1.2	0.7	-61.8	H
2863.6	-55.7	1.4	-0.7	-57.8	V
3579.5	-74.0	1.6	9.0	-66.6	V
4295.4	-73.3	1.7	9.7	-65.3	V
5011.3	-72.2	2.0	9.8	-64.4	V

NB-IoT B13 Radiated Spurious Emission Results

Test Data (15kHz bandwidth QPSK Mode CH23230)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1564.0	-56.6	1.0	0.2	-57.4	V
2346.0	-60.0	1.3	0.4	-60.9	V
3128.0	-74.6	1.5	8.9	-67.2	V
3910.0	-72.4	1.7	9.3	-64.8	V
4692.0	-72.8	1.9	9.7	-65.0	V
5474.0	-71.8	2.1	10.3	-63.6	V

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NB-IoT B25 Radiated Spurious Emission Results

Test Data (15kHz bandwidth QPSK Mode CH26689)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3829.8	-72.8	1.7	9.3	-65.2	V
5744.7	-72.7	2.2	10.3	-64.6	V
7659.6	-71.2	2.6	11.7	-62.1	V
9574.5	-71.2	3.4	12.4	-62.2	V
11489.4	-70.5	3.6	13.8	-60.3	V
13404.3	-69.6	3.9	14.0	-59.5	V

NB-IoT B26(Part22) Radiated Spurious Emission Results

Test Data (15kHz bandwidth BPSK Mode CH26691)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1628.2	-66.5	1.0	1.6	-65.9	V
2442.3	-58.9	1.3	0.3	-59.9	V
3256.4	-74.0	1.5	8.9	-66.6	V
4070.5	-72.7	1.7	9.3	-65.1	V
4884.6	-72.0	2.0	9.8	-64.2	V
5698.7	-72.0	2.2	10.3	-63.9	V

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NB-IoT B26(Part90) Radiated Spurious Emission Results

Test Data (15kHz bandwidth BPSK Mode CH26791)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1648.2	-65.9	1.0	1.6	-65.3	H
2472.3	-60.2	1.3	0.3	-61.2	V
3296.4	-74.2	1.5	9.0	-66.7	V
4120.5	-73.1	1.8	9.3	-65.6	V
4944.6	-71.1	1.9	9.8	-63.2	V
5768.7	-73.2	2.3	10.9	-64.6	V

NB-IoT B66 Radiated Spurious Emission Results

Test Data (15kHz bandwidth QPSK Mode CH132671)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3559.8	-73.5	1.6	9.0	-66.1	V
5339.7	-73.2	2.1	10.3	-65.0	V
7119.6	-72.0	2.5	11.4	-63.1	V
8899.5	-70.9	3.0	12.1	-61.8	V
10679.4	-71.1	3.4	13.2	-61.3	V
12459.3	-69.7	3.8	14.1	-59.4	V

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NB-IoT B71 Radiated Spurious Emission Results

Test Data (15kHz bandwidth QPSK Mode CH133123)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1326.2	-56.5	0.9	1.3	-56.1	H
1989.3	-64.4	1.1	1.6	-63.9	V
2652.4	-57.4	1.3	-0.4	-59.1	H
3315.5	-74.3	1.5	9.0	-66.8	V
3978.6	-72.8	1.7	9.3	-65.2	V
4641.7	-72.9	1.8	9.7	-65.0	V

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6.6.2 CAT-M Radiated Spurious Emission Results

CAT-M B2 Radiated Spurious Emission Results

Test Data (1.4MHz bandwidth QPSK Mode CH18607)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3701.4	-73.1	1.6	9.0	-65.7	V
5552.1	-73.1	2.2	10.3	-65.0	V
7402.8	-72.6	2.5	11.7	-63.4	V
9253.5	-69.7	3.1	12.1	-60.7	V
11104.2	-70.8	3.6	13.5	-60.9	V
12954.9	-70.1	3.7	14.1	-59.7	V

CAT-M B4 Radiated Spurious Emission Results

Test Data (15MHz bandwidth 16QAM Mode CH20325)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3495.0	-74.5	1.6	9.0	-67.1	V
5242.5	-71.6	2.1	9.8	-63.9	V
6990.0	-71.8	2.5	11.4	-62.9	V
8737.5	-70.1	3.2	12.2	-61.1	V
10485.0	-68.6	3.7	13.2	-59.1	V
12232.5	-70.6	3.6	14.0	-60.2	V

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CAT-M B12 Radiated Spurious Emission Results

Test Data (10MHz bandwidth 16QAM Mode CH23130)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1422.0	-69.8	0.9	1.7	-69.0	V
2133.0	-62.6	1.2	0.7	-63.1	H
2844.0	-56.1	1.4	-0.7	-58.2	H
3555.0	-74.6	1.6	9.0	-67.2	V
4266.0	-72.8	1.8	9.3	-65.3	V
4977.0	-72.1	2.0	9.8	-64.3	V

CAT-M B13 Radiated Spurious Emission Results

Test Data (10MHz bandwidth 16QAM Mode CH23230)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1564.0	-66.3	1.0	0.2	-67.1	V
2346.0	-59.3	1.3	0.4	-60.2	V
3128.0	-74.8	1.5	8.9	-67.4	V
3910.0	-72.9	1.7	9.3	-65.3	V
4692.0	-72.7	1.9	9.7	-64.9	V
5474.0	-72.1	2.1	10.3	-63.9	V

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CAT-M B14 Radiated Spurious Emission Results

Test Data (10MHz bandwidth 16QAM Mode CH23330)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1586.0	-67.0	1.0	0.9	-67.1	H
2379.0	-59.9	1.3	-0.2	-61.4	V
3172.0	-74.9	1.5	8.9	-67.5	V
3965.0	-73.2	1.7	9.3	-65.6	V
4758.0	-73.5	1.9	9.8	-65.6	V
5551.0	-71.6	2.2	10.3	-63.5	V

CAT-M B25 Radiated Spurious Emission Results

Test Data (10MHz bandwidth 16QAM Mode CH26365)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3765.0	-73.7	1.6	9.3	-66.0	V
5647.5	-72.5	2.3	10.3	-64.5	V
7530.0	-71.5	2.5	11.7	-62.3	V
9412.5	-69.4	3.1	12.4	-60.1	V
11295.0	-69.9	3.2	13.8	-59.3	V
13177.5	-69.4	4.0	14.1	-59.3	V

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CAT-M B26(Part22) Radiated Spurious Emission Results

Test Data (1.4MHz bandwidth 16QAM Mode CH26697)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1629.4	-66.9	1.0	1.6	-66.3	H
2444.1	-58.5	1.3	0.3	-59.5	V
3258.8	-74.5	1.5	9.0	-67.0	V
4073.5	-72.6	1.7	9.3	-65.0	V
4888.2	-72.2	2.0	9.8	-64.4	V
5702.9	-72.8	2.1	10.3	-64.6	V

CAT-M B26(Part90) Radiated Spurious Emission Results

Test Data (5MHz bandwidth 16QAM Mode CH26815)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1653.0	-67.1	1.0	1.6	-66.5	H
2479.5	-58.8	1.3	-0.1	-60.2	H
3306.0	-75.0	1.5	9.0	-67.5	V
4132.5	-74.1	1.7	9.3	-66.5	V
4959.0	-71.9	1.9	9.8	-64.0	V
5785.5	-73.7	2.2	10.9	-65.0	V

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CAT-M B66 Radiated Spurious Emission Results

Test Data (15MHz bandwidth 16QAM Mode CH132047)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3435.0	-75.1	1.5	9.0	-67.6	V
5152.5	-72.3	2.0	9.8	-64.5	V
6870.0	-71.8	2.4	11.4	-62.8	V
8587.5	-70.7	3.2	12.2	-61.7	V
10305.0	-72.4	3.5	13.2	-62.7	V
12022.5	-69.9	3.7	14.0	-59.6	V

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6.7. Band Edge

Specifications:	FCC Part 2.1051,24.238, 2.1053, 22.917, 27.53,90.691
DUT Serial Number:	865456056939661
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 22.917 (a), i.e., Out of Band emissions. 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.

According to Part 24.238 (a), i.e., Out of Band emissions. 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, so the limit level is: $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$.

According to Part 27.53(h):

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 Bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

According to Part 27.53(g):

For operations in the 600 MHz Band and the 698-746 MHz Band, the power of any emission outside a licensee's frequency Band(s) of operation shall be attenuated below the transmitter power (P) within the licensed Band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution Bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz Bands immediately outside and adjacent to a licensee's frequency block, a resolution Bandwidth of at least 30 kHz may be employed.

According to Part 90.691:

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the

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center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

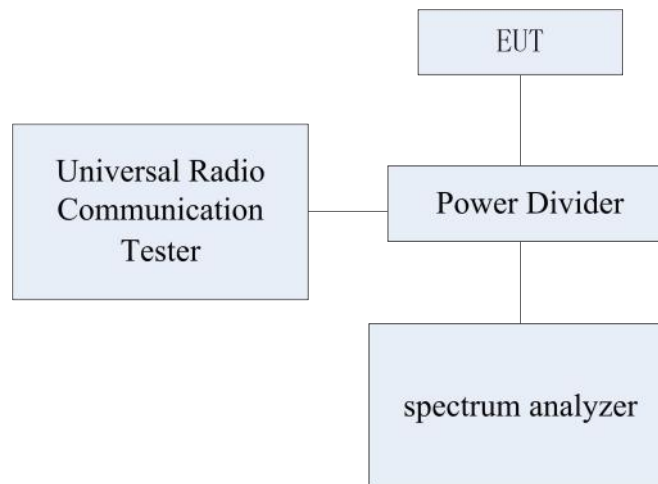
(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

Measurement Uncertainty:

Item	Uncertainty	
Expanded Uncertainty	$9\text{kHz} < f \leq 4\text{GHz}$	0.71 dB ($k=2$)
	$4\text{GHz} \leq f < 12.75\text{GHz}$	0.74 dB ($k=2$)
	$12.75\text{GHz} \leq f < 26\text{GHz}$	2.70 dB ($k=2$)

Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.

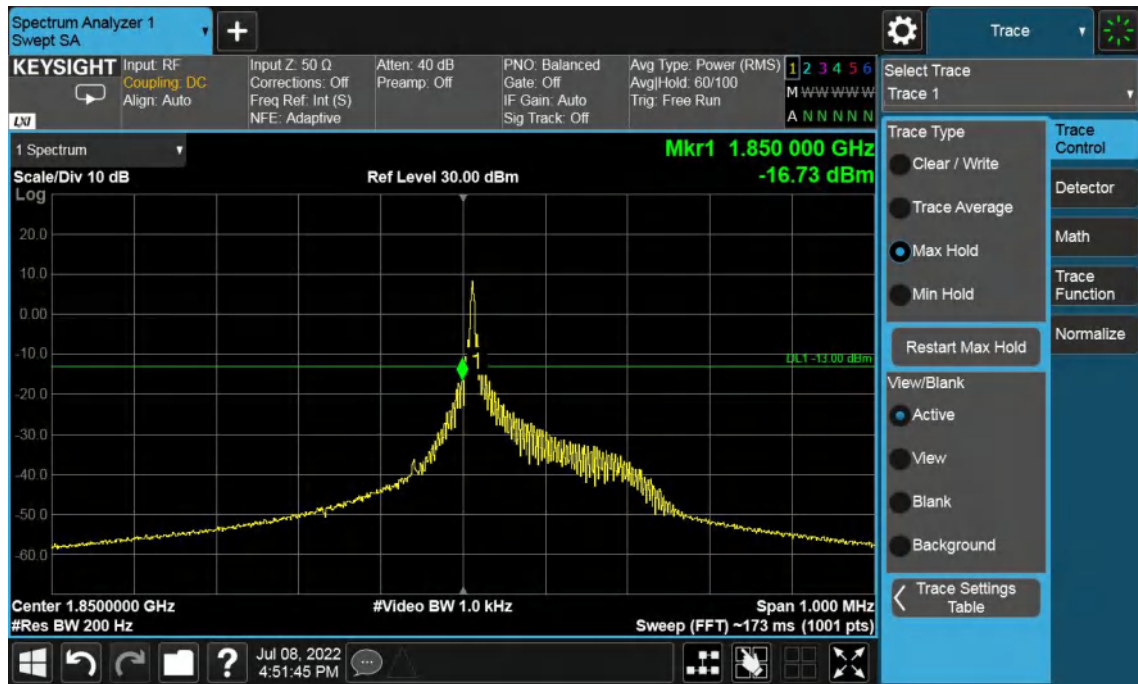


Test Method:

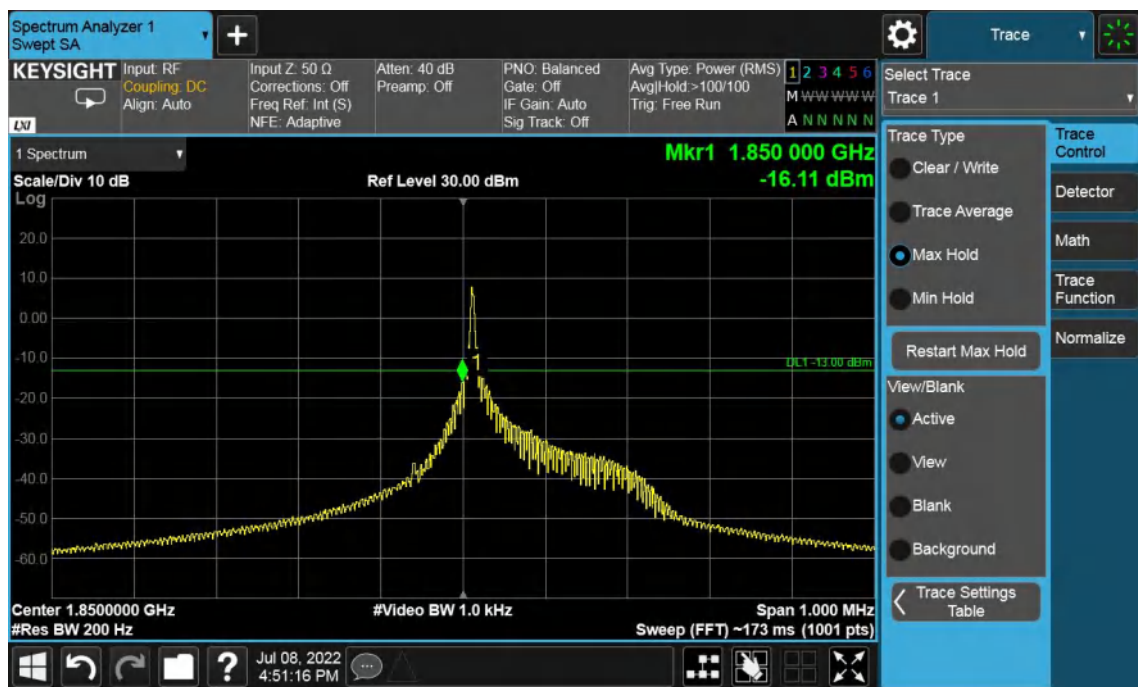
- 1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The loss of the cables the test system is calibrated to correct the readings.
- 2) The spectrum analyzer was set to Average Detector function and Maximum hold mode.
- 3) The resolution Bandwidth of the spectrum analyzer was a little greater than 1% of the 26dB emission Bandwidth.

Note: In the graphical result description (X, Y), X represents the number of RB, Y represents the RB offset.

6.7.1 NB-IoT Band2 Edge Results



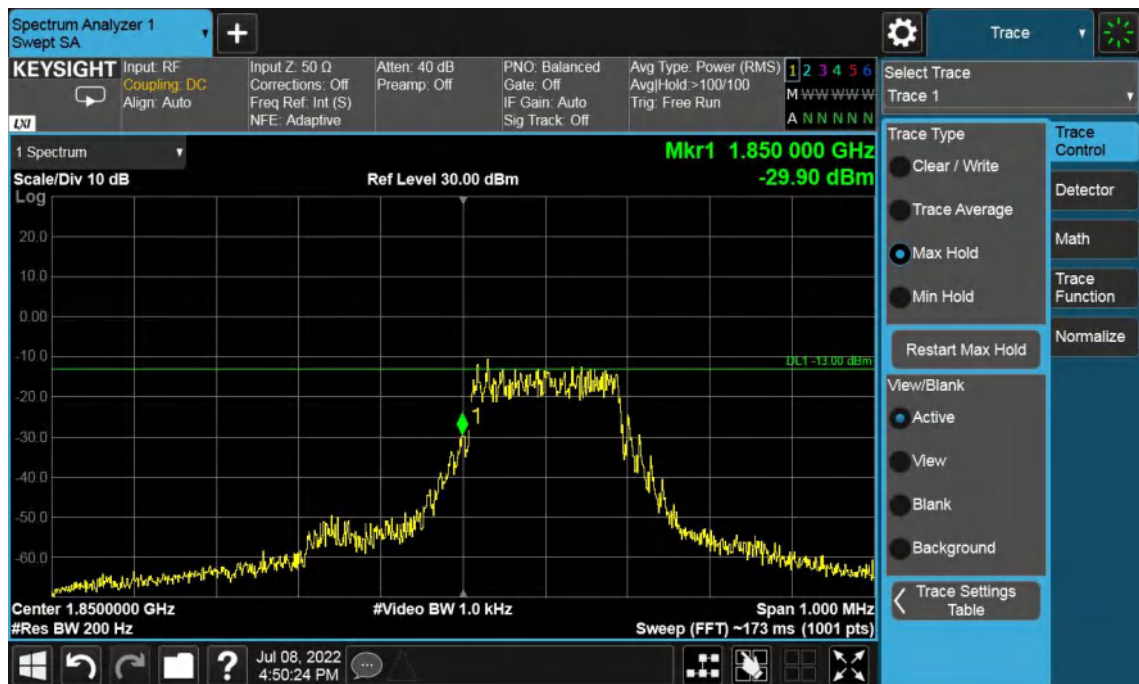
Low Channel, Subcarrier (3.75kHz), QPSK, 1@0



Low Channel, Subcarrier (3.75kHz), BPSK, 1@0



Low Channel, Subcarrier (15kHz), QPSK, 1@0



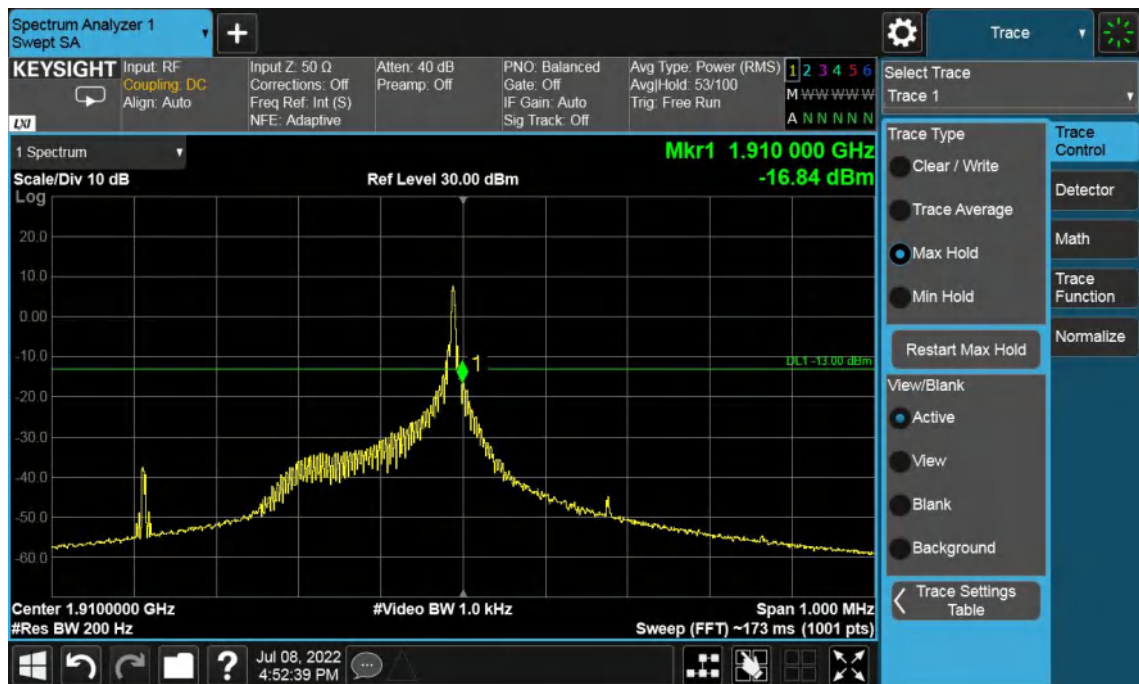
Low Channel, Subcarrier (15kHz), QPSK, 12@0

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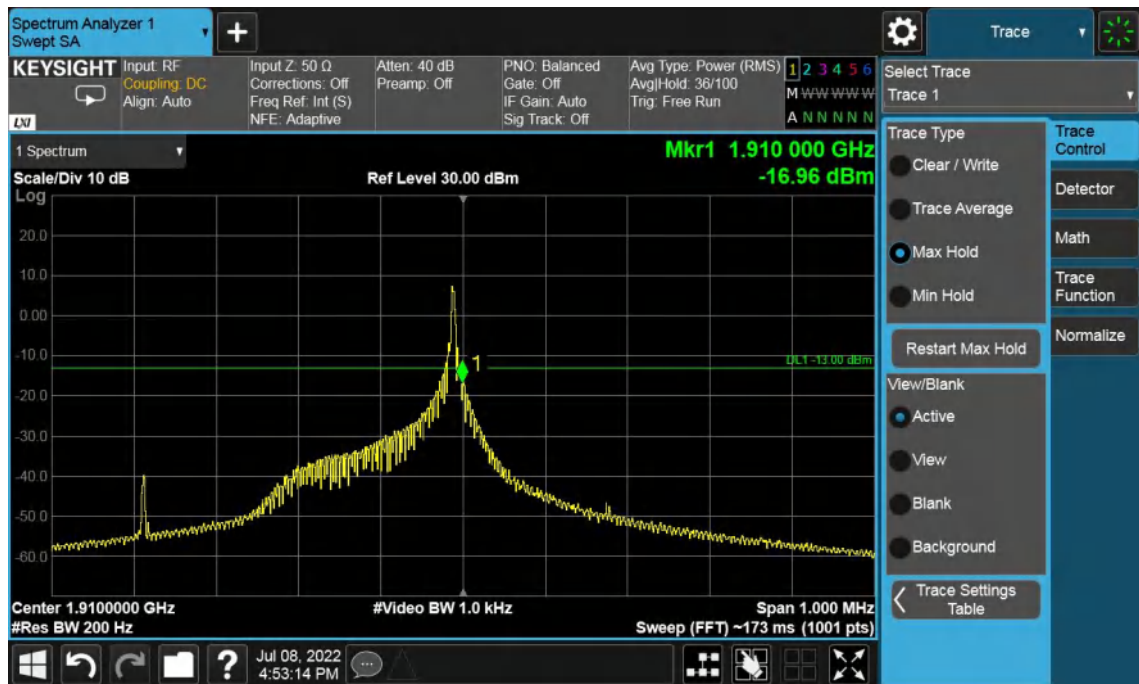
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Low Channel, Subcarrier (15kHz), BPSK, 1@0



High Channel, Subcarrier (3.75kHz), QPSK, 1@47



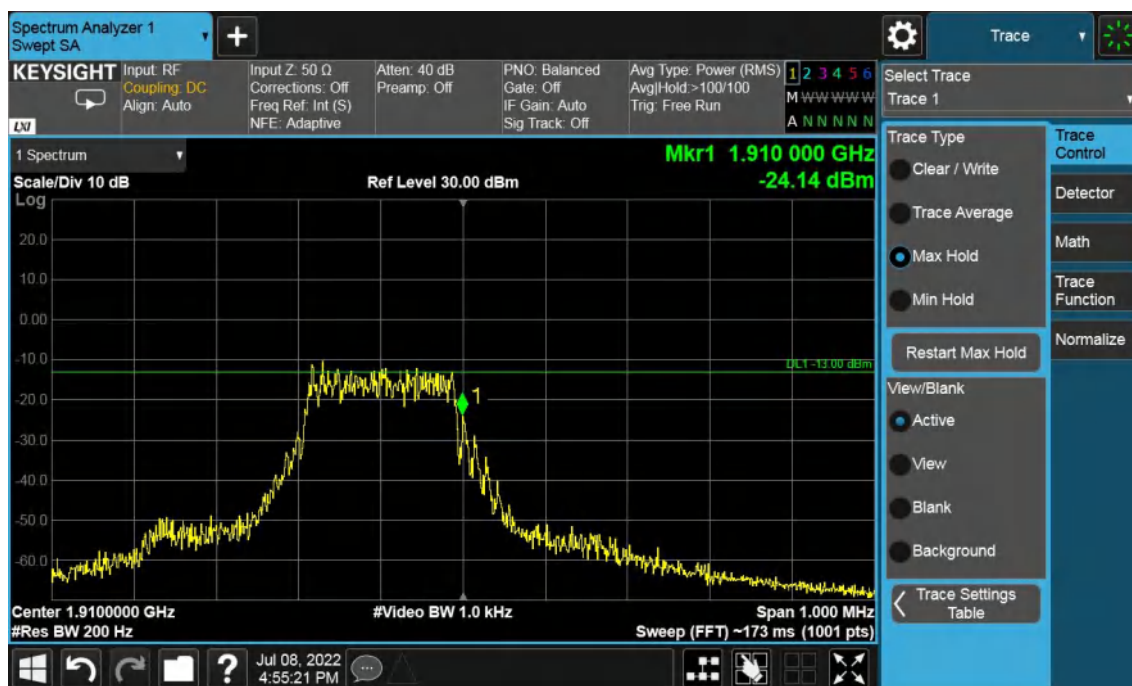
High Channel, Subcarrier (3.75kHz), BPSK, 1@47



High Channel, Subcarrier (15kHz), QPSK, 1@11

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High Channel, Subcarrier (15kHz), QPSK, 12@0

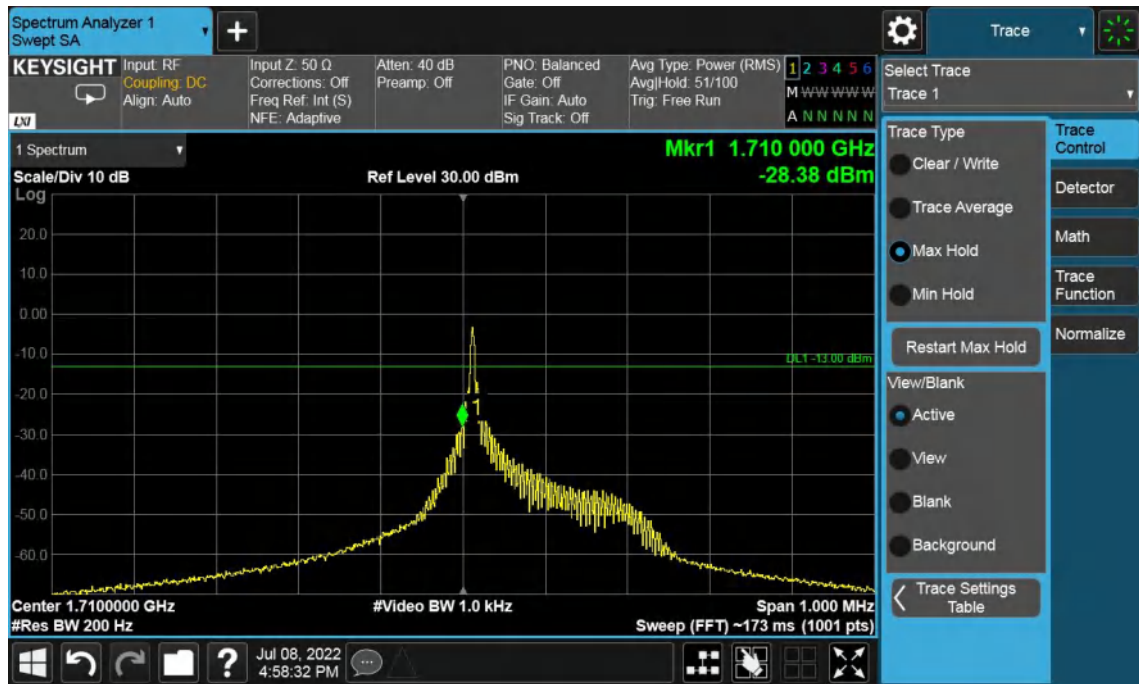


High Channel, Subcarrier (15kHz), BPSK, 1@11

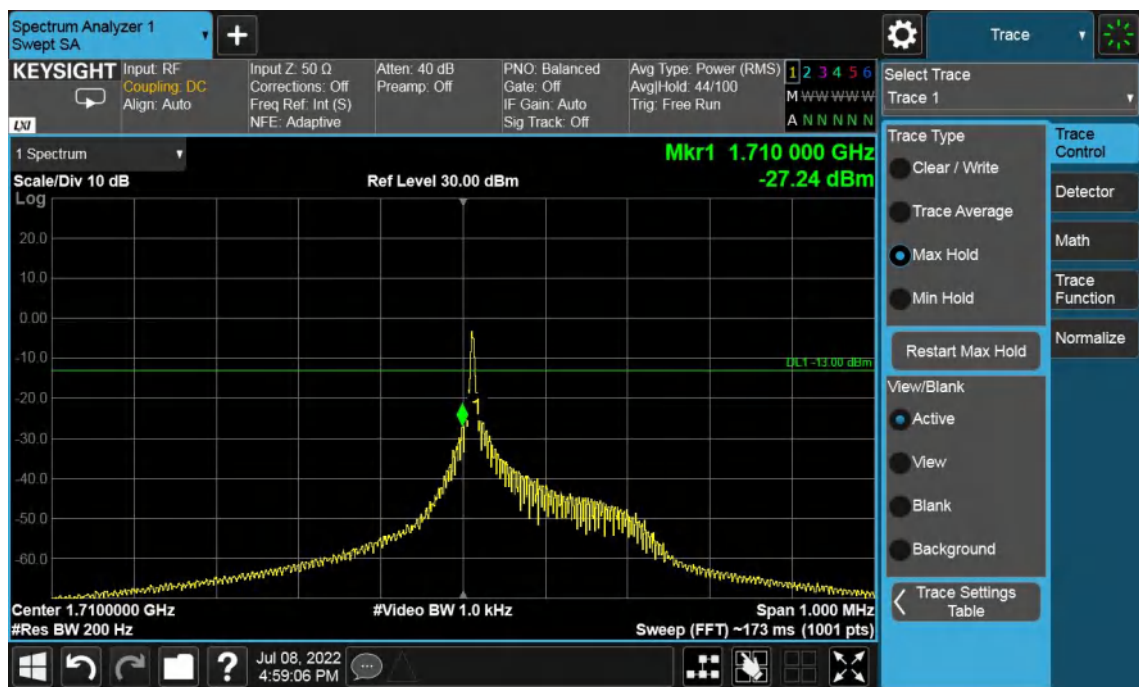
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6.7.2 NB-IoT Band4 Edge Results



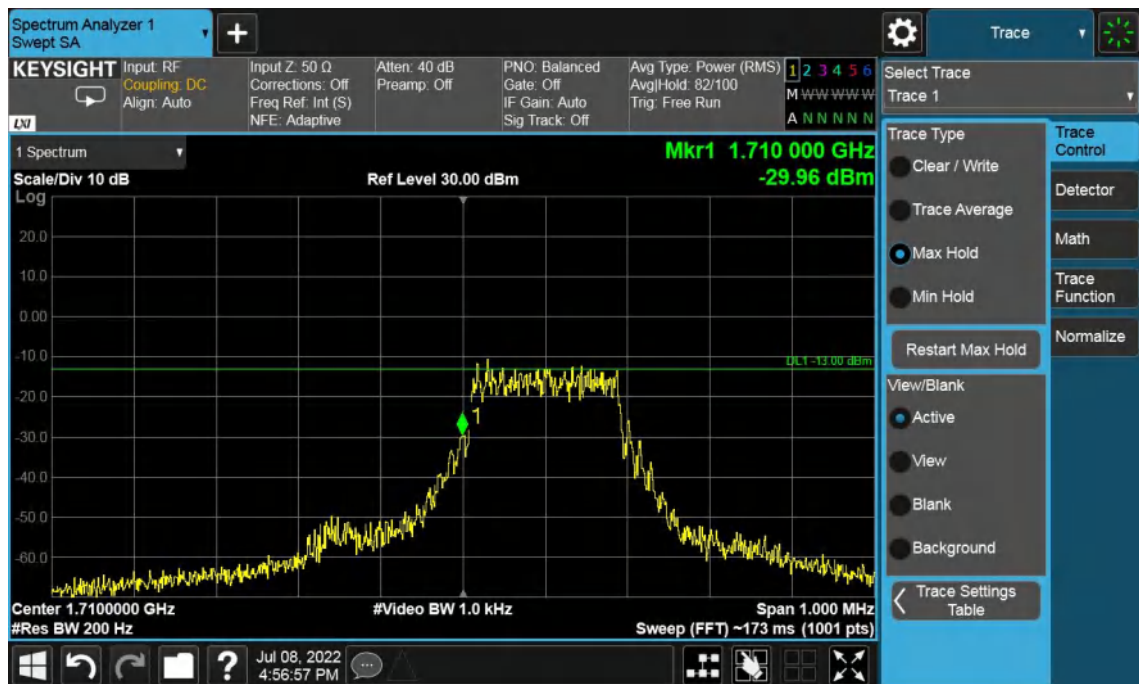
Low Channel, Subcarrier (3.75kHz), QPSK, 1@0



Low Channel, Subcarrier (3.75kHz), BPSK, 1@0



Low Channel, Subcarrier (15kHz), QPSK, 1@0



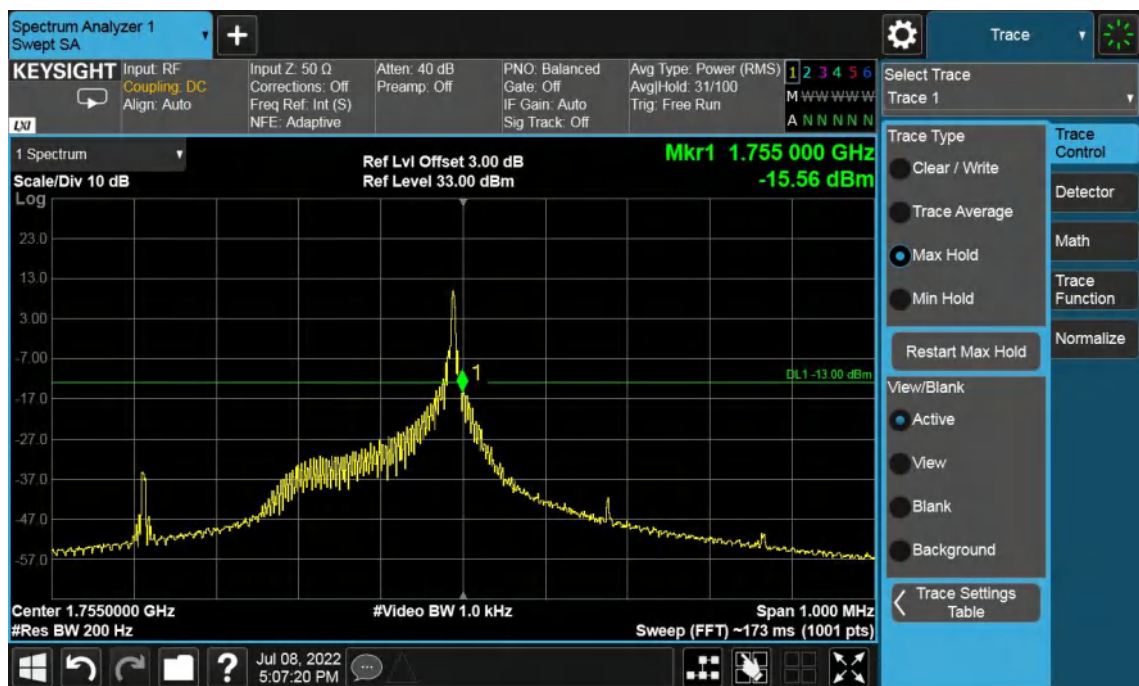
Low Channel, Subcarrier (15kHz), QPSK, 12@0

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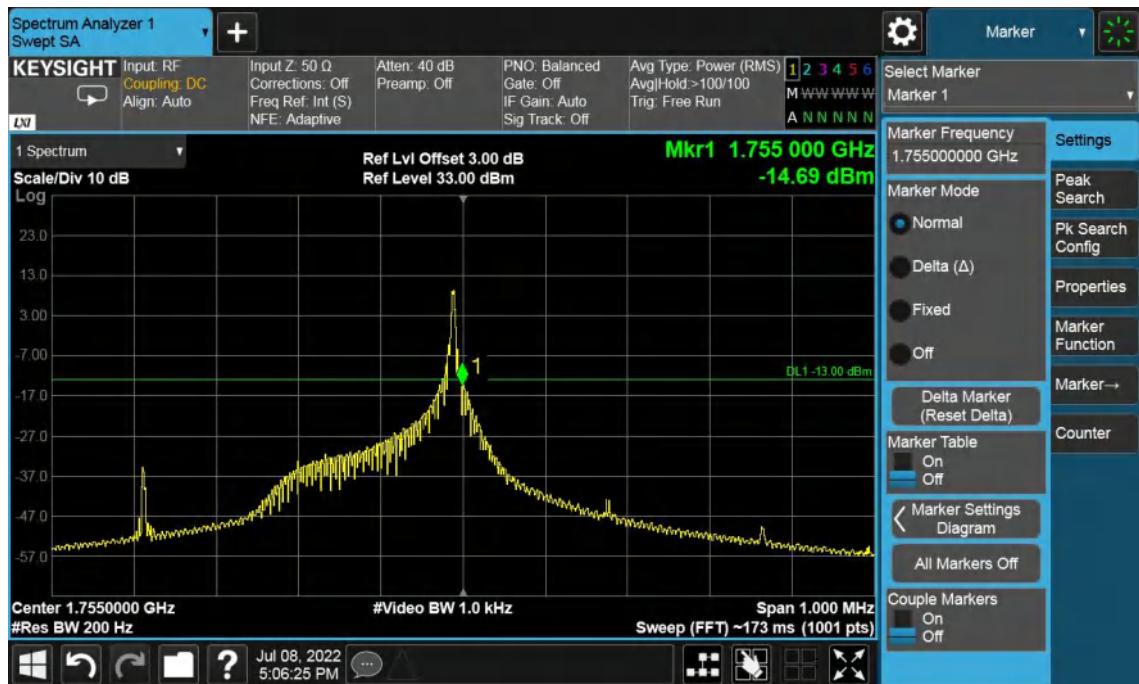
Low Channel, Subcarrier (15kHz), BPSK, 1@0



High Channel, Subcarrier (3.75kHz), QPSK, 1@47

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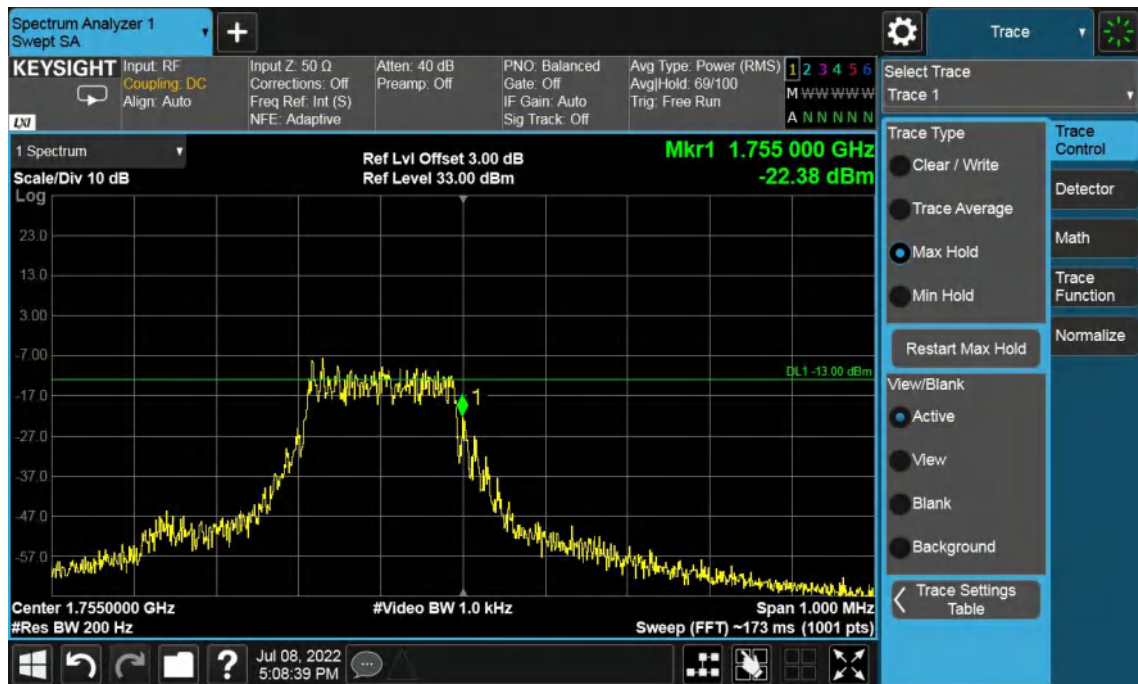
High Channel, Subcarrier (3.75kHz), BPSK, 1@47



High Channel, Subcarrier (15kHz), QPSK, 1@11

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High Channel, Subcarrier (15kHz), QPSK, 12@0

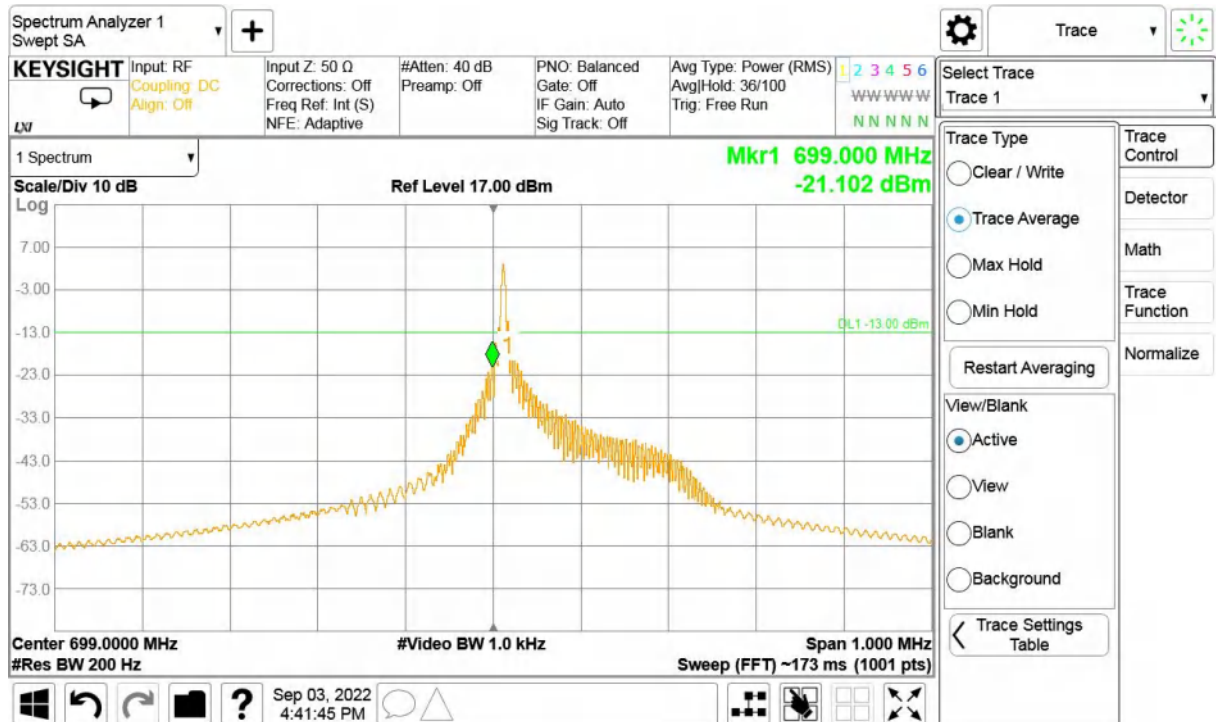


High Channel, Subcarrier (15kHz), BPSK, 1@11

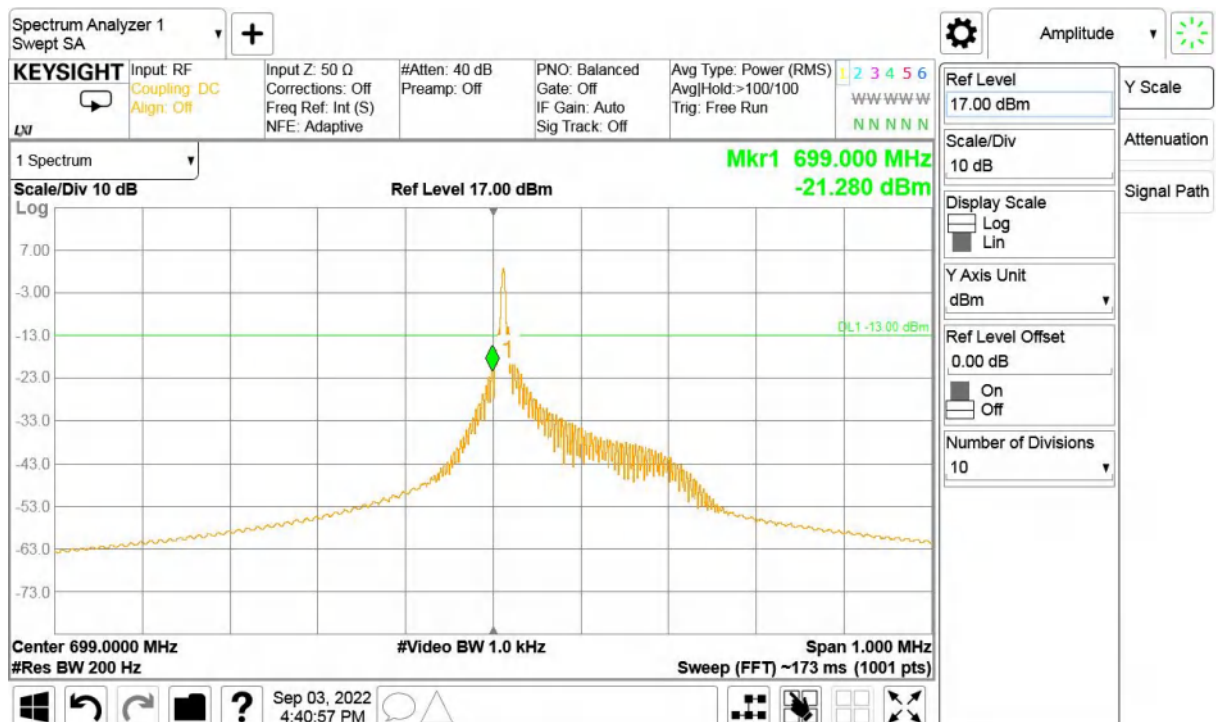
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6.7.3 NB-IoT Band12 Edge Results



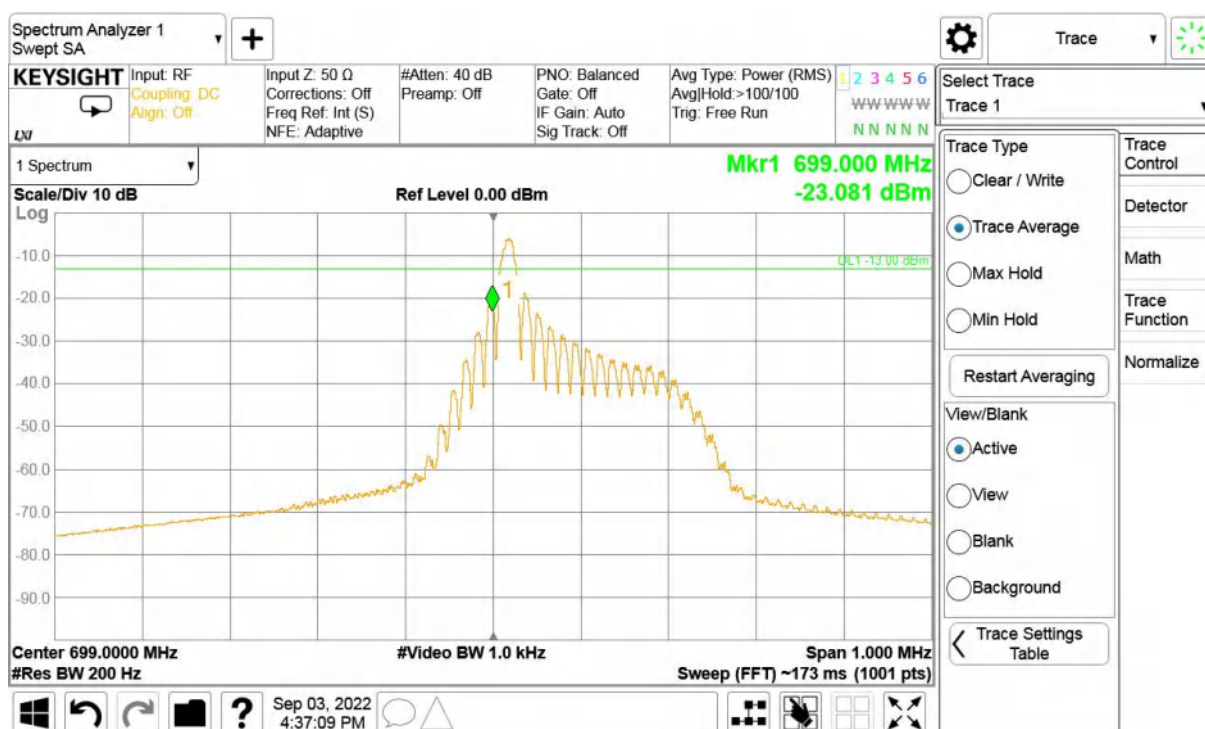
Low Channel, Subcarrier (3.75kHz), QPSK, 1@0



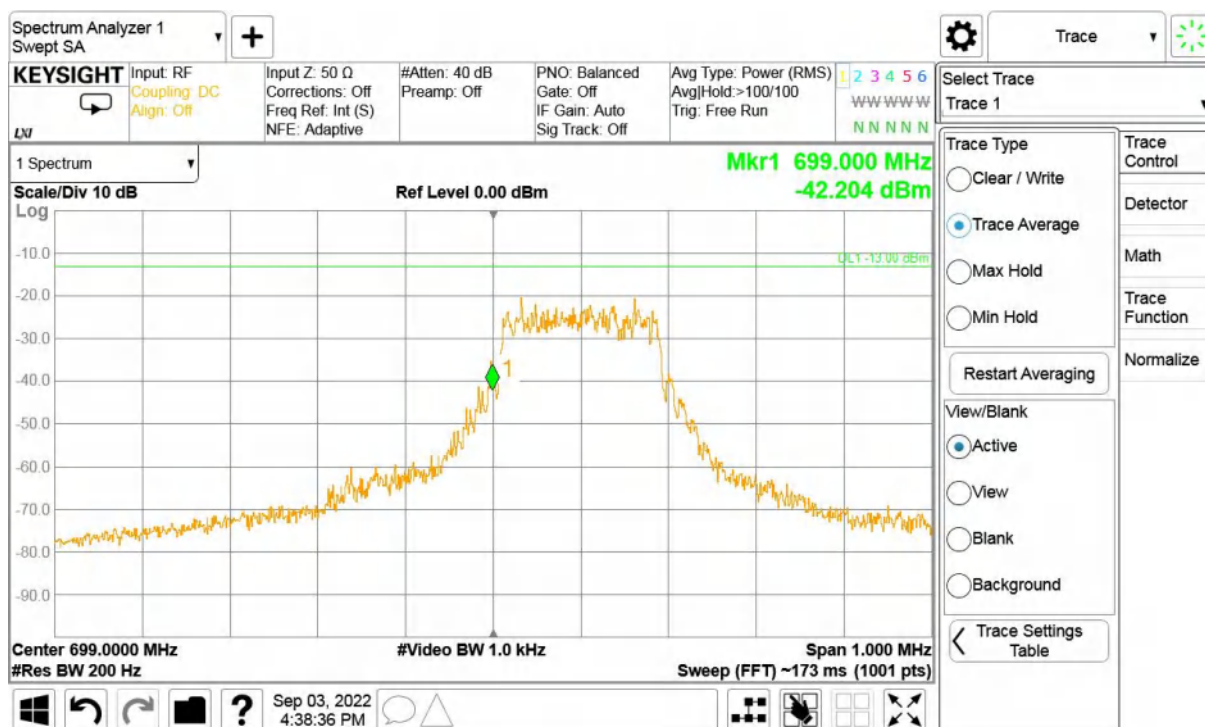
Low Channel, Subcarrier (3.75kHz), BPSK, 1@0

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Low Channel, Subcarrier (15kHz), QPSK, 1@0



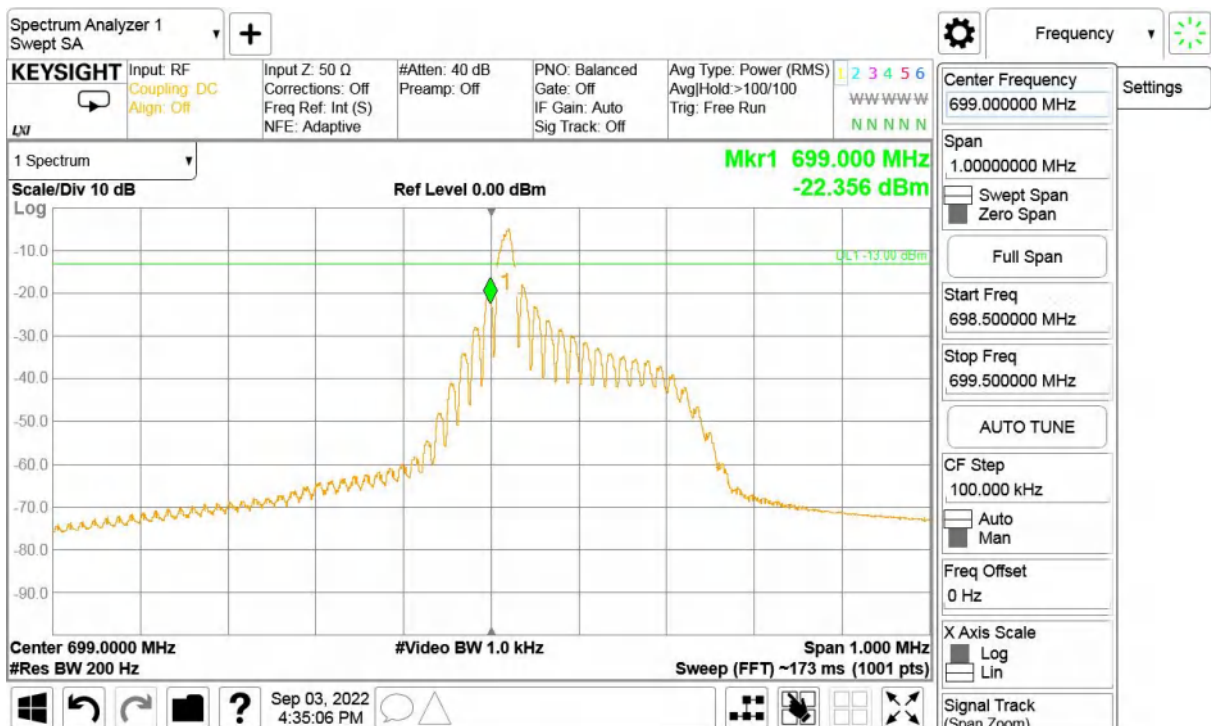
Low Channel, Subcarrier (15kHz), QPSK, 12@0

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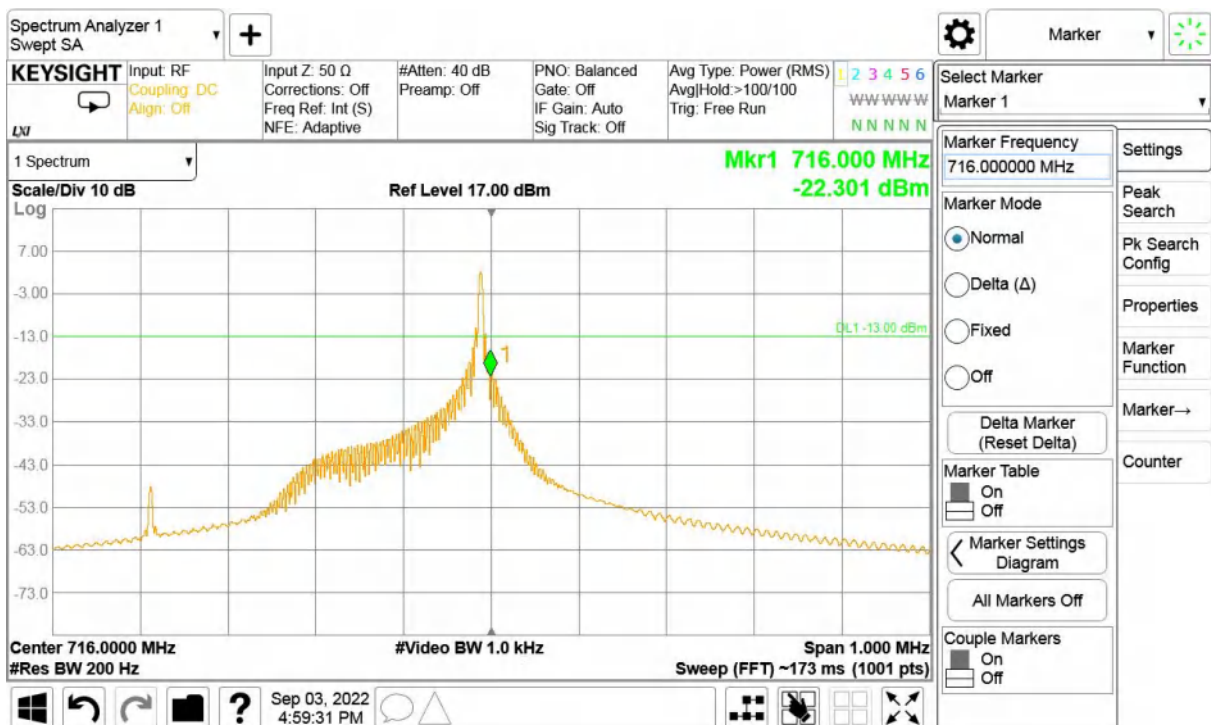
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.: I22W00051-WWAN RF-Rev4



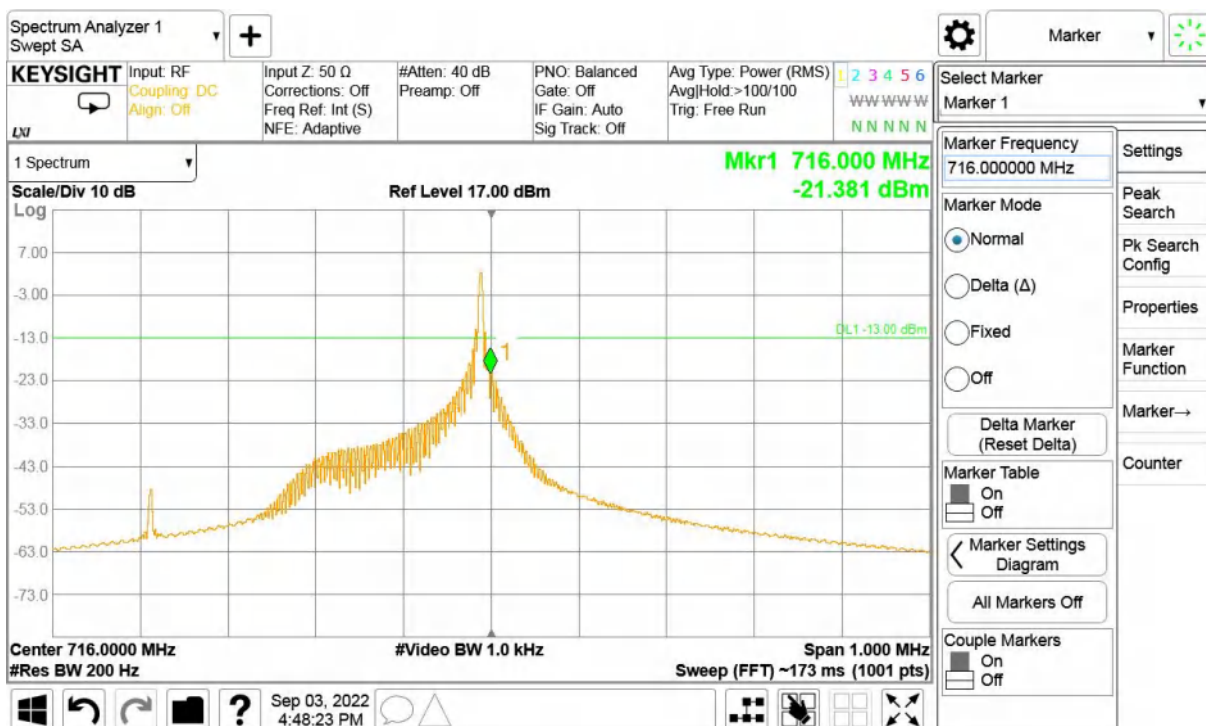
Low Channel, Subcarrier (15kHz), BPSK, 1@0



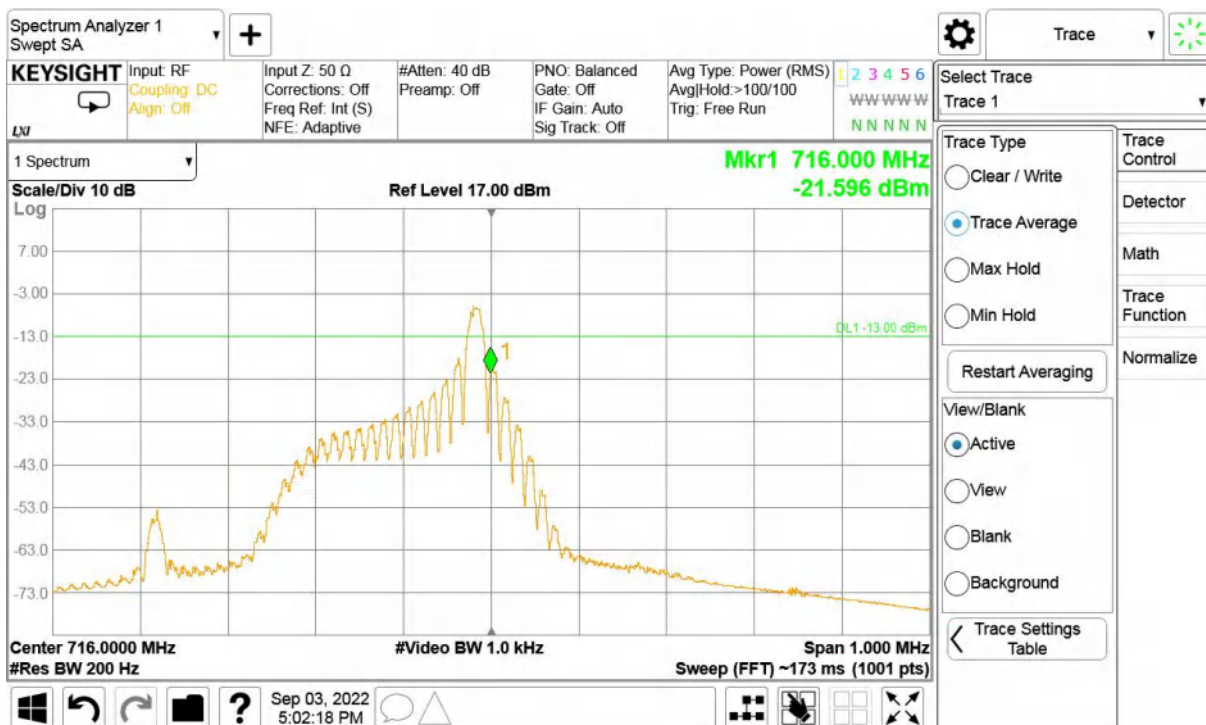
High Channel, Subcarrier (3.75kHz), QPSK, 1@47

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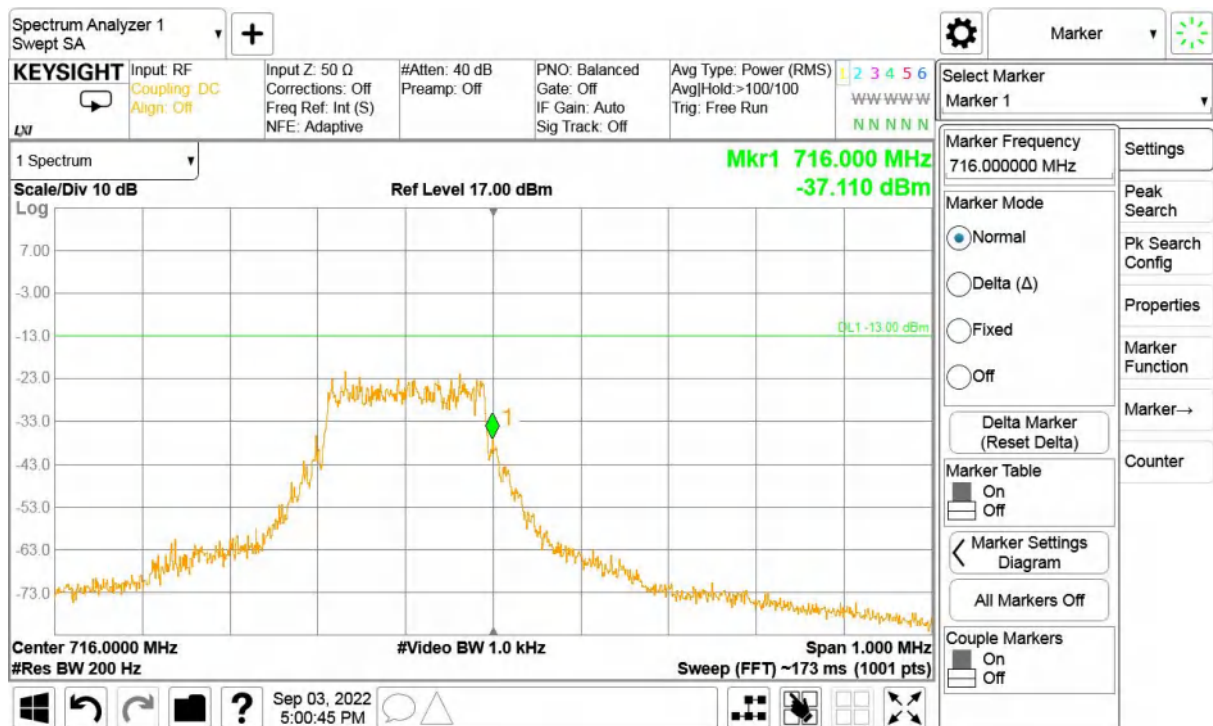
High Channel, Subcarrier (3.75kHz), BPSK, 1@47



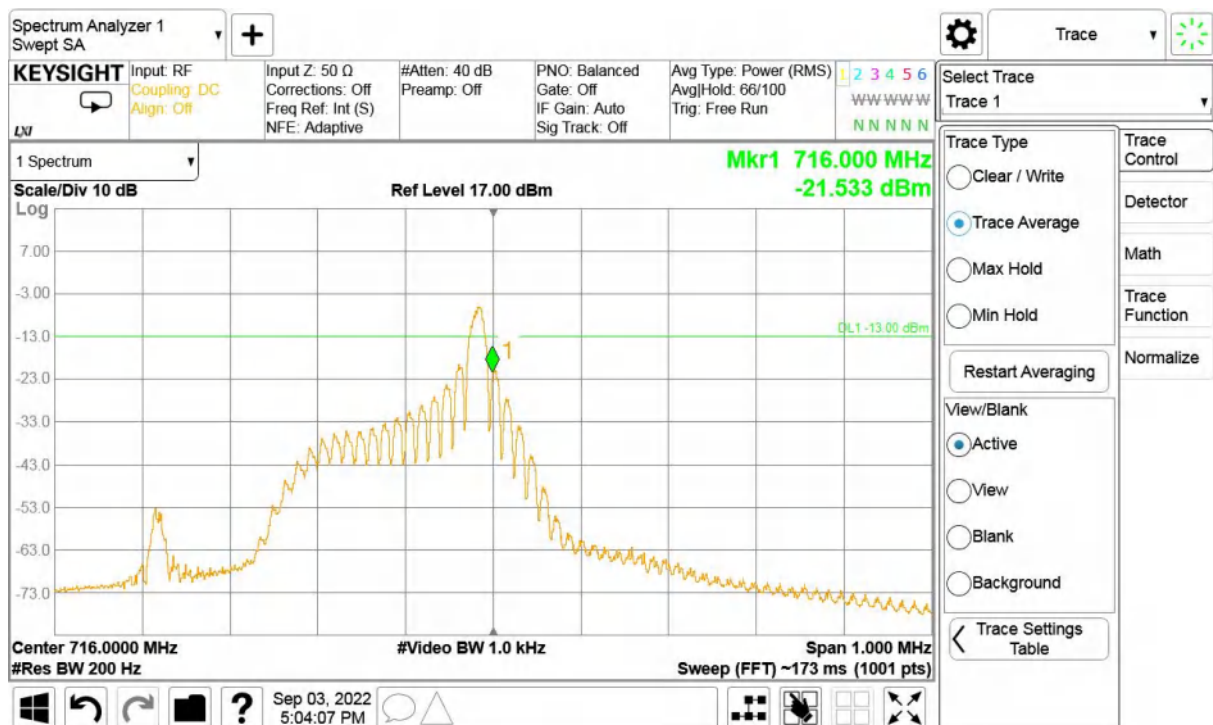
High Channel, Subcarrier (15kHz), QPSK, 1@11

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High Channel, Subcarrier (15kHz), QPSK, 12@0

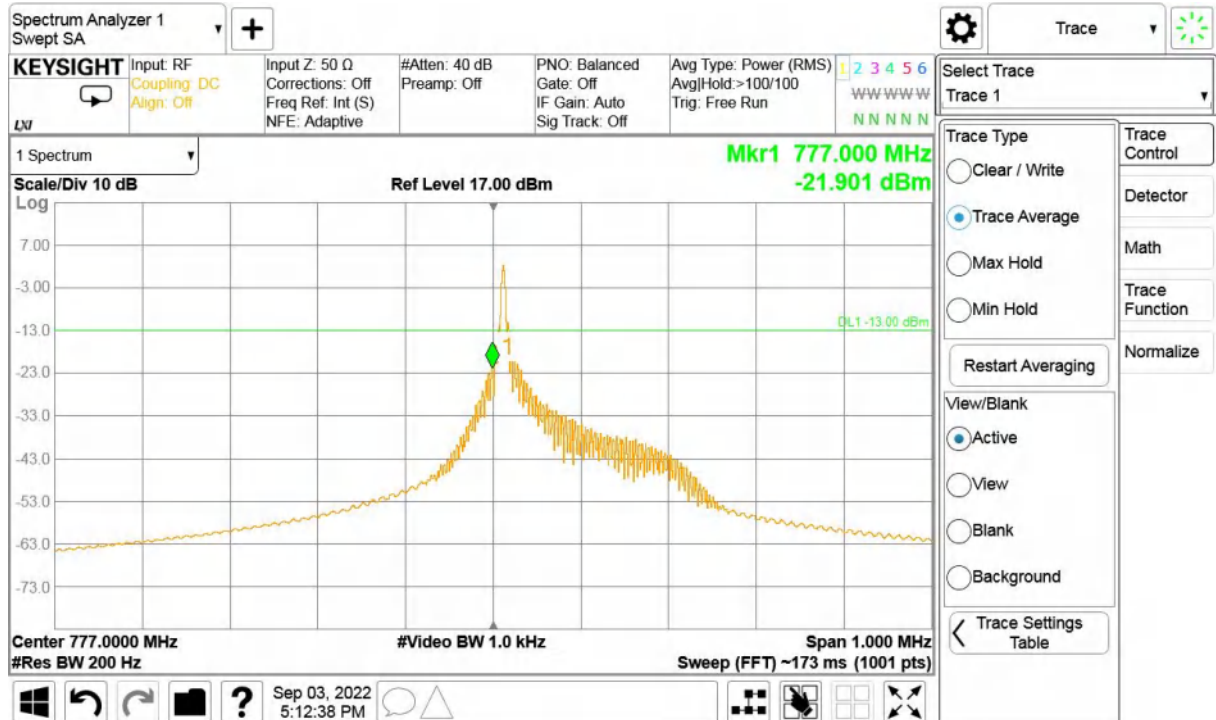


High Channel, Subcarrier (15kHz), BPSK, 1@11

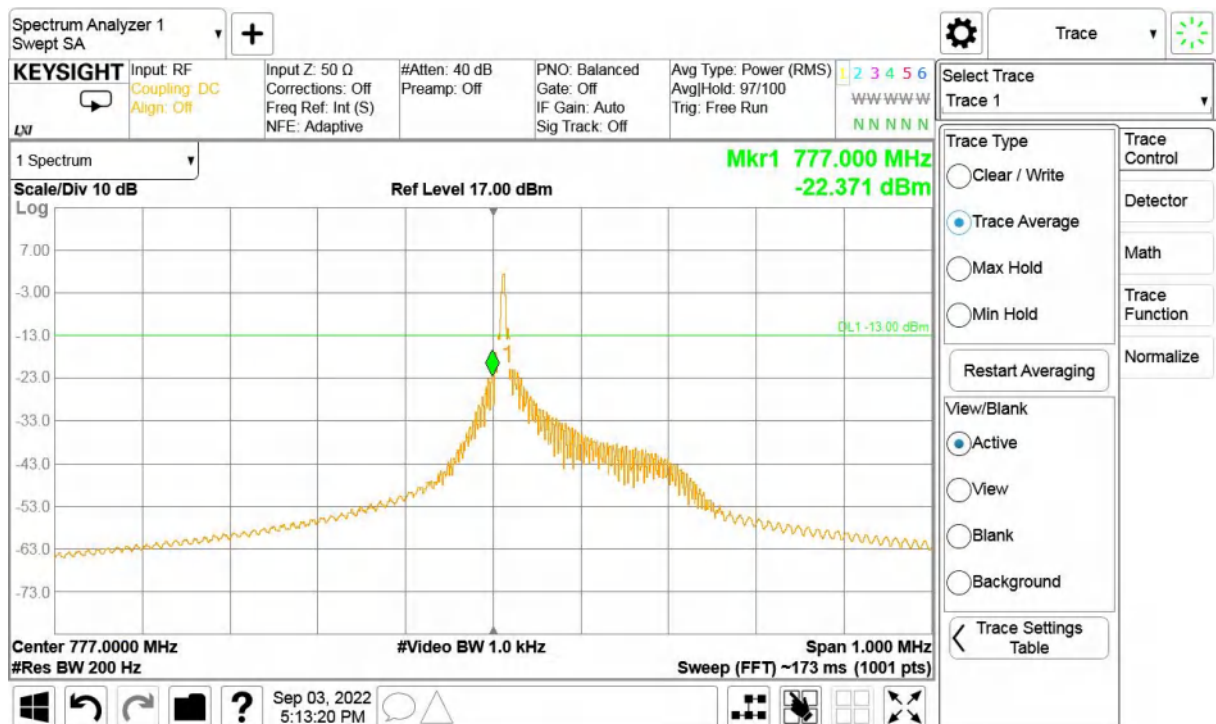
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6.7.4 NB-IoT Band 13 Edge Results



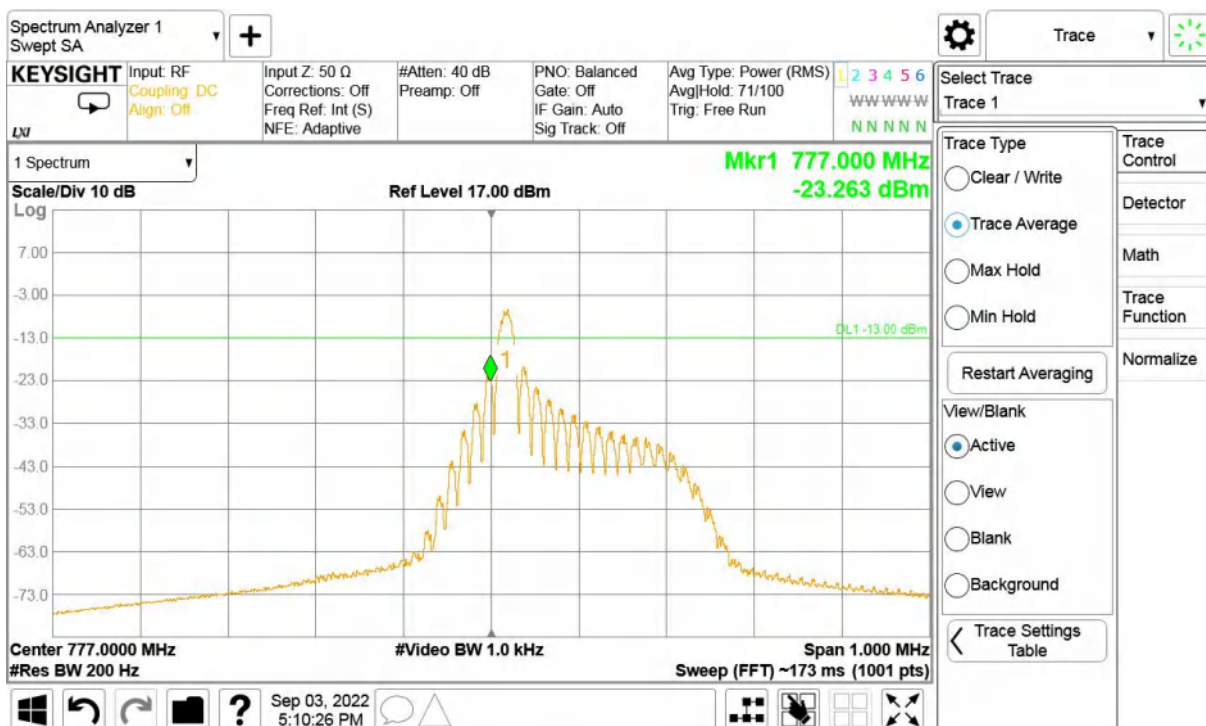
Low Channel, Subcarrier (3.75kHz), QPSK, 1@0



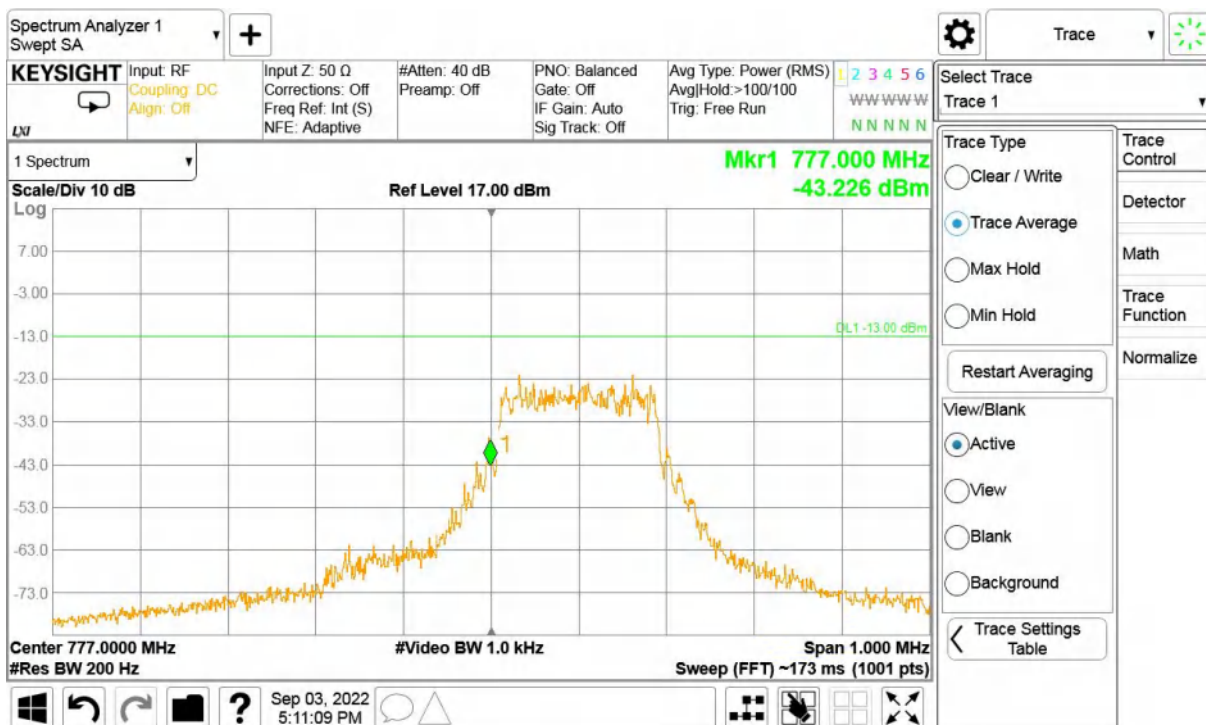
Low Channel, Subcarrier (3.75kHz), BPSK, 1@0

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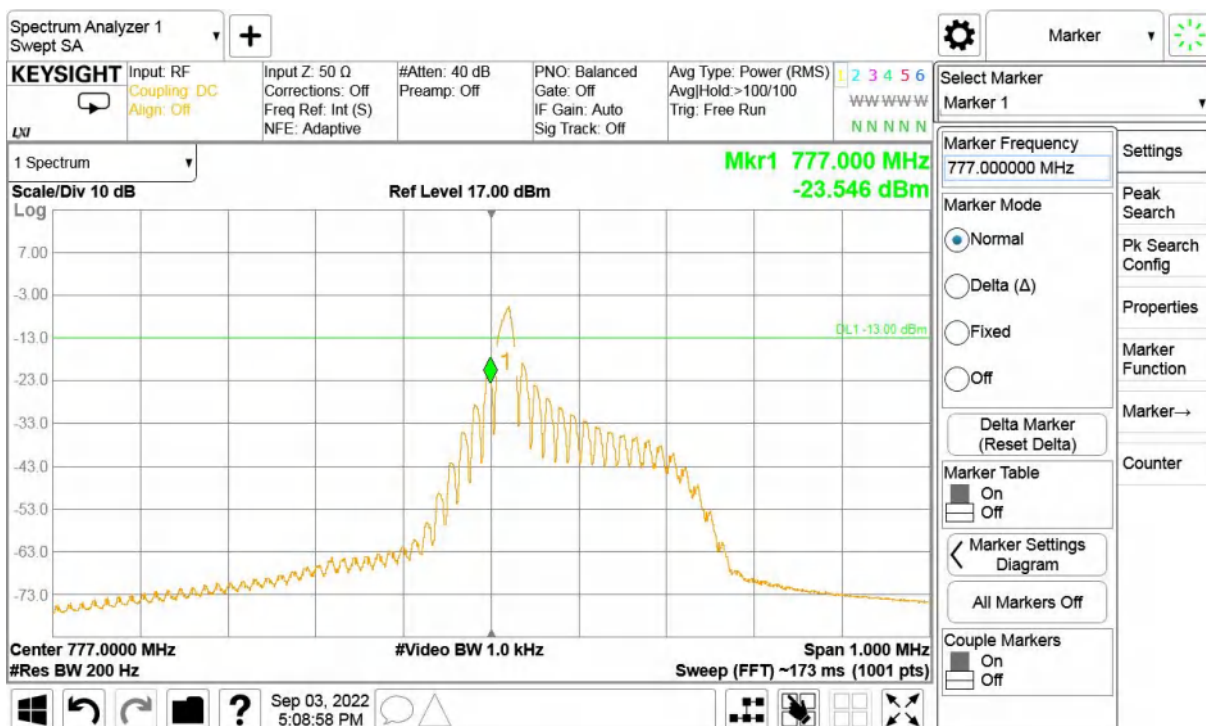
Low Channel, Subcarrier (15kHz), QPSK, 1@0



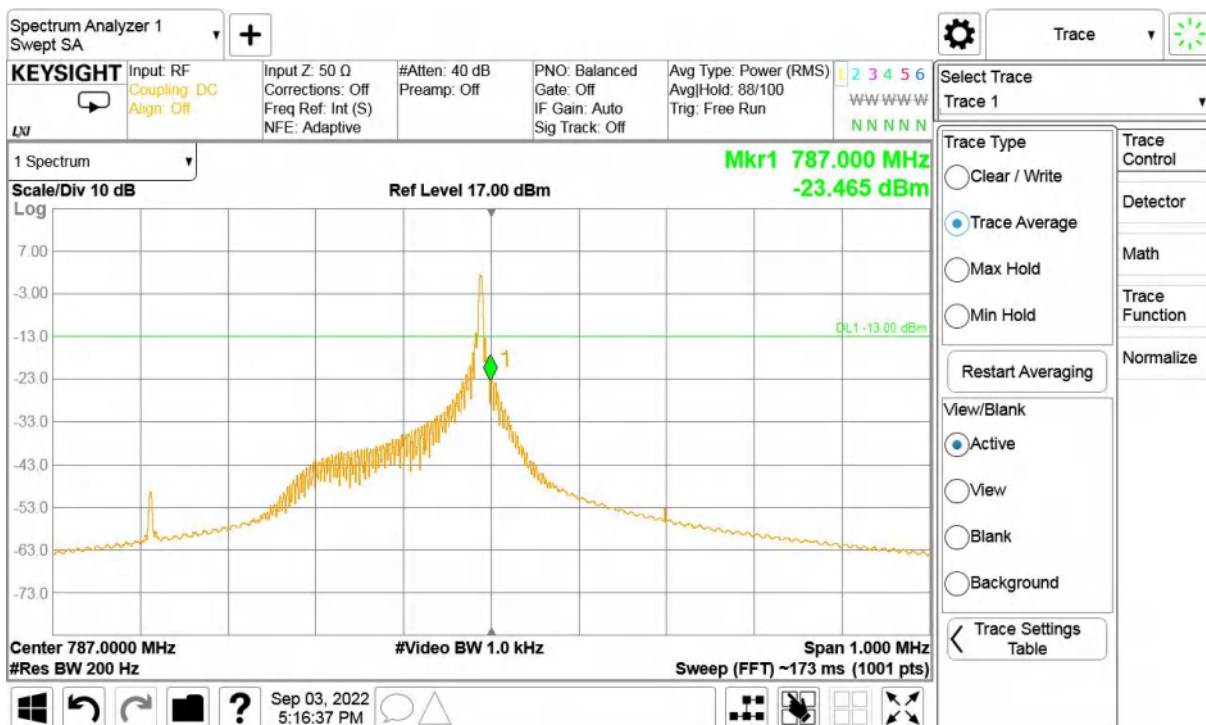
Low Channel, Subcarrier (15kHz), QPSK, 12@0

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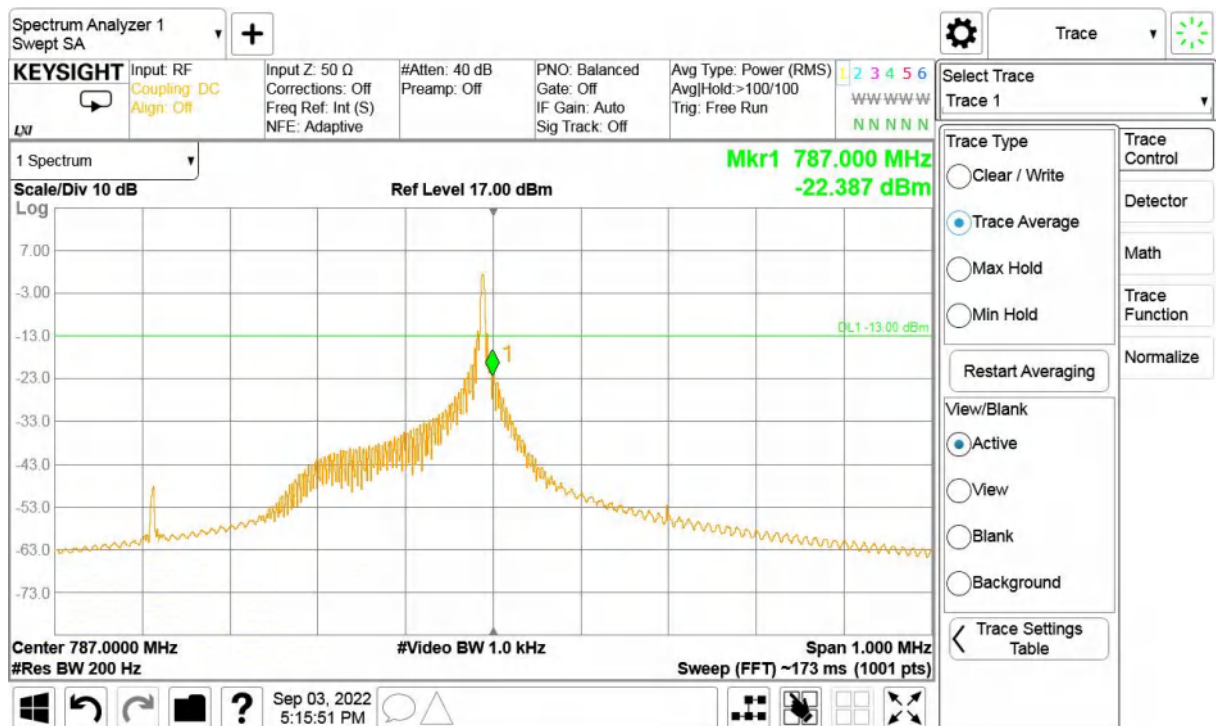
Low Channel, Subcarrier (15kHz), BPSK, 1@0



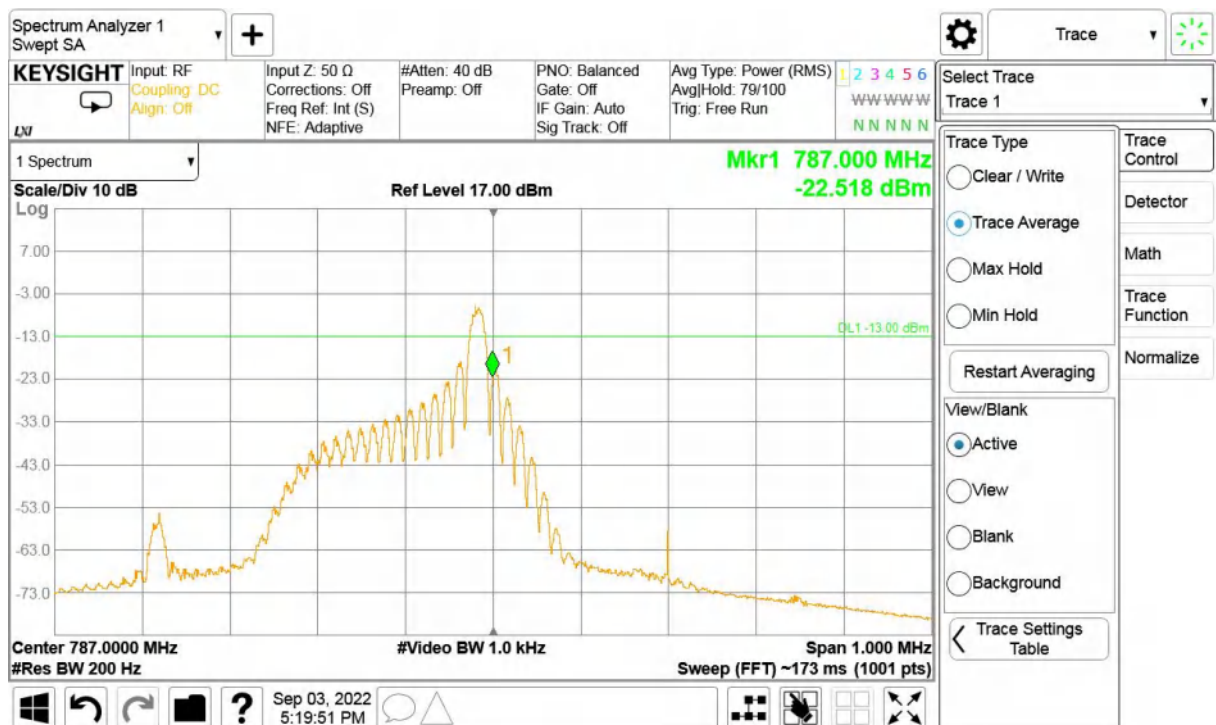
High Channel, Subcarrier (3.75kHz), QPSK, 1@47

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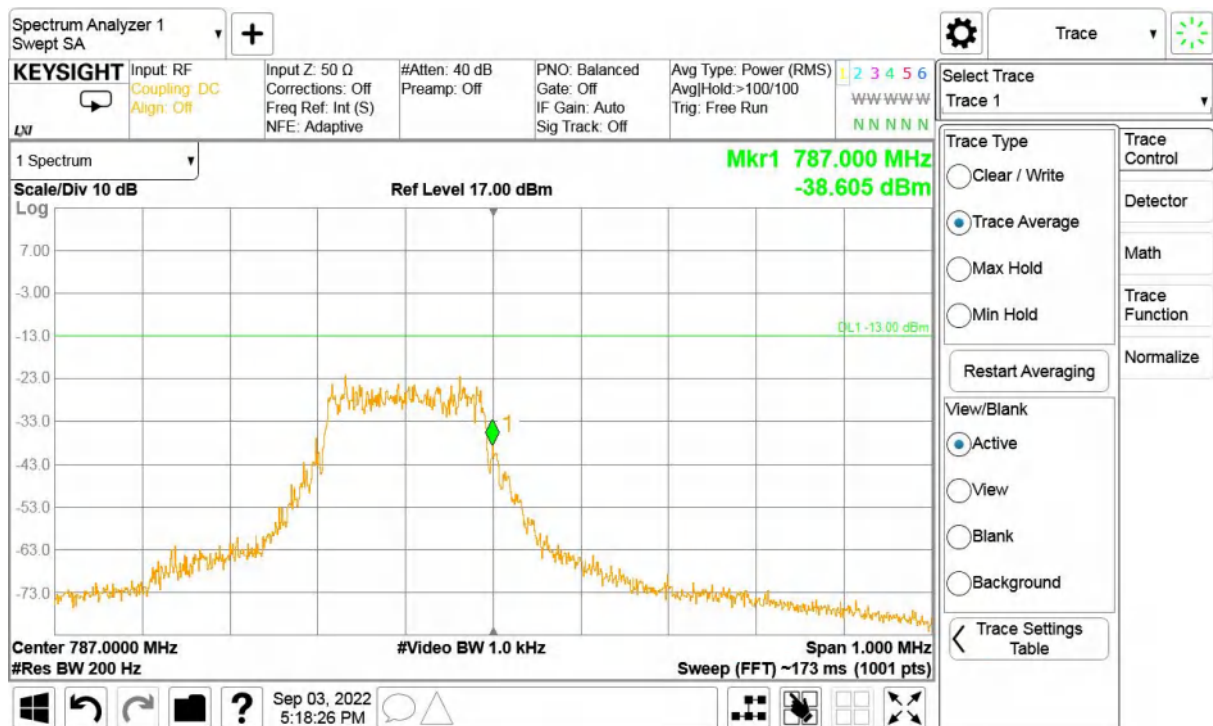
High Channel, Subcarrier (3.75kHz), BPSK, 1@47



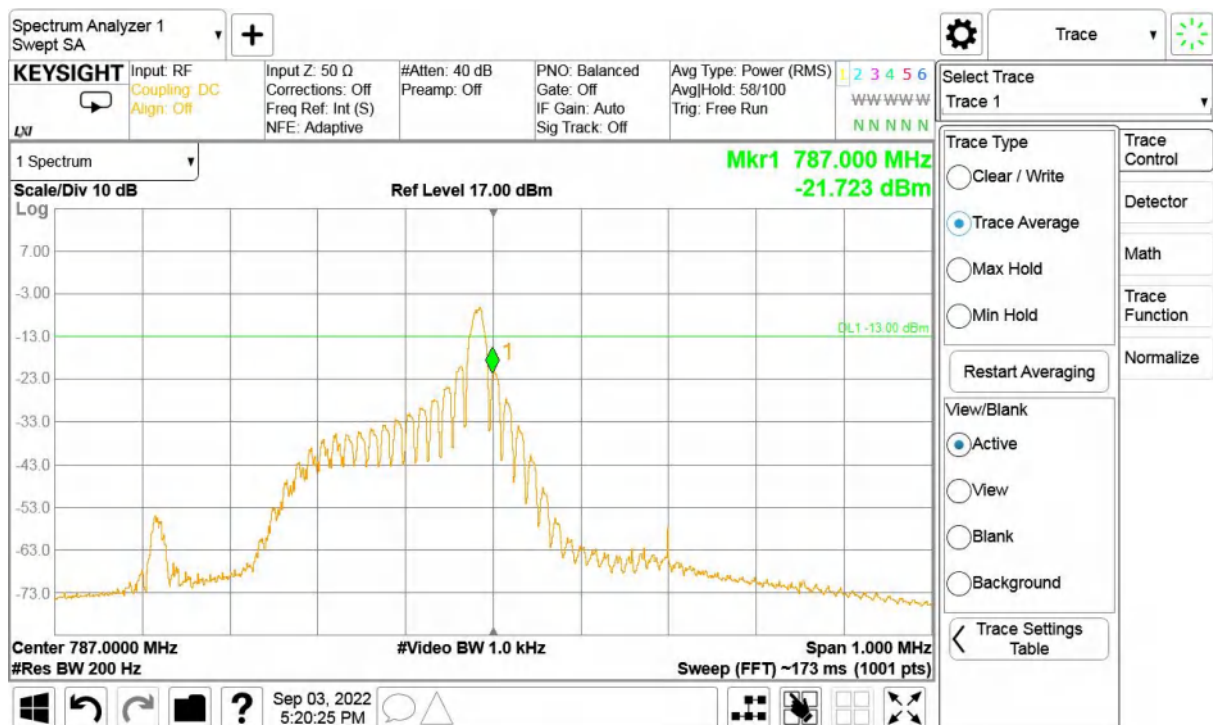
High Channel, Subcarrier (15kHz), QPSK, 1@11

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High Channel, Subcarrier (15kHz), QPSK, 12@0

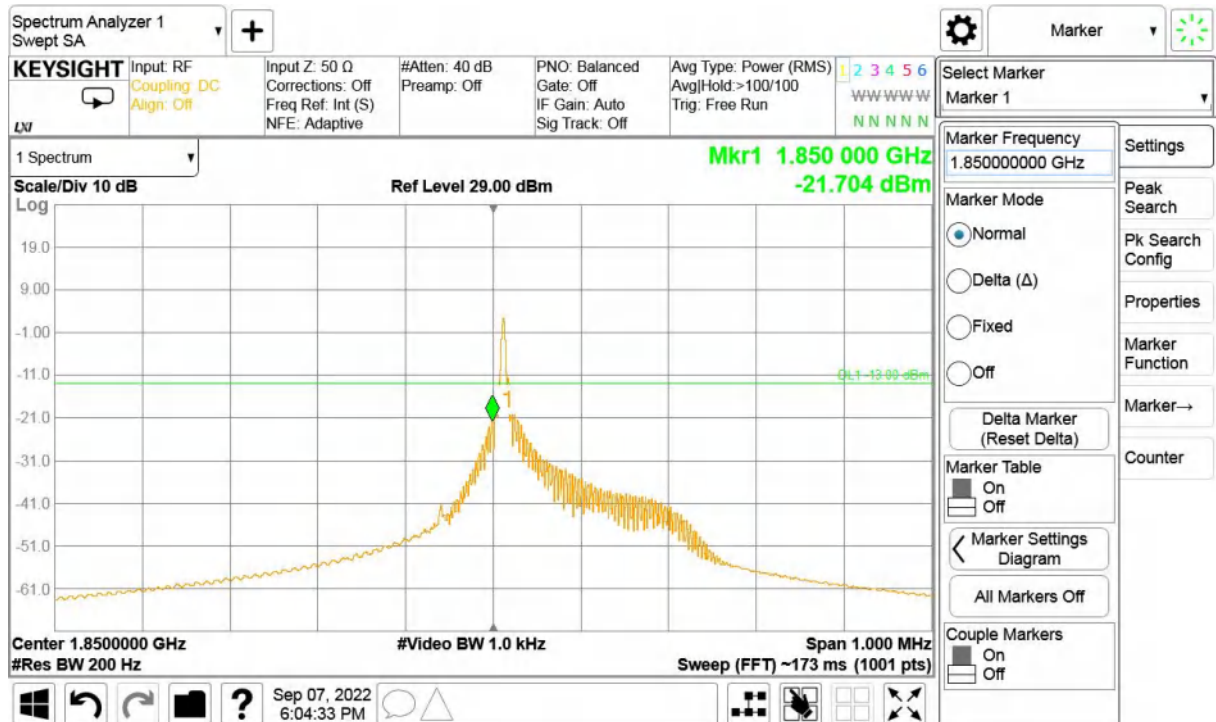


High Channel, Subcarrier (15kHz), BPSK, 1@11

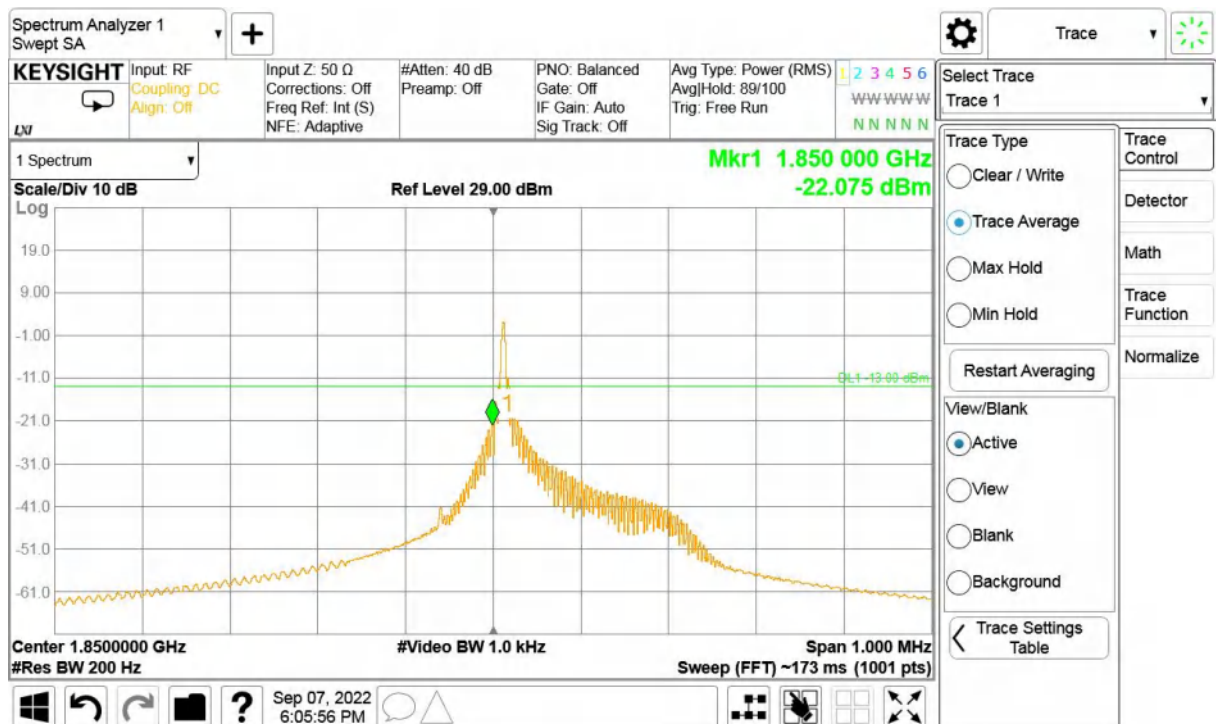
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6.7.5 NB-IoT Band 25 Edge Results



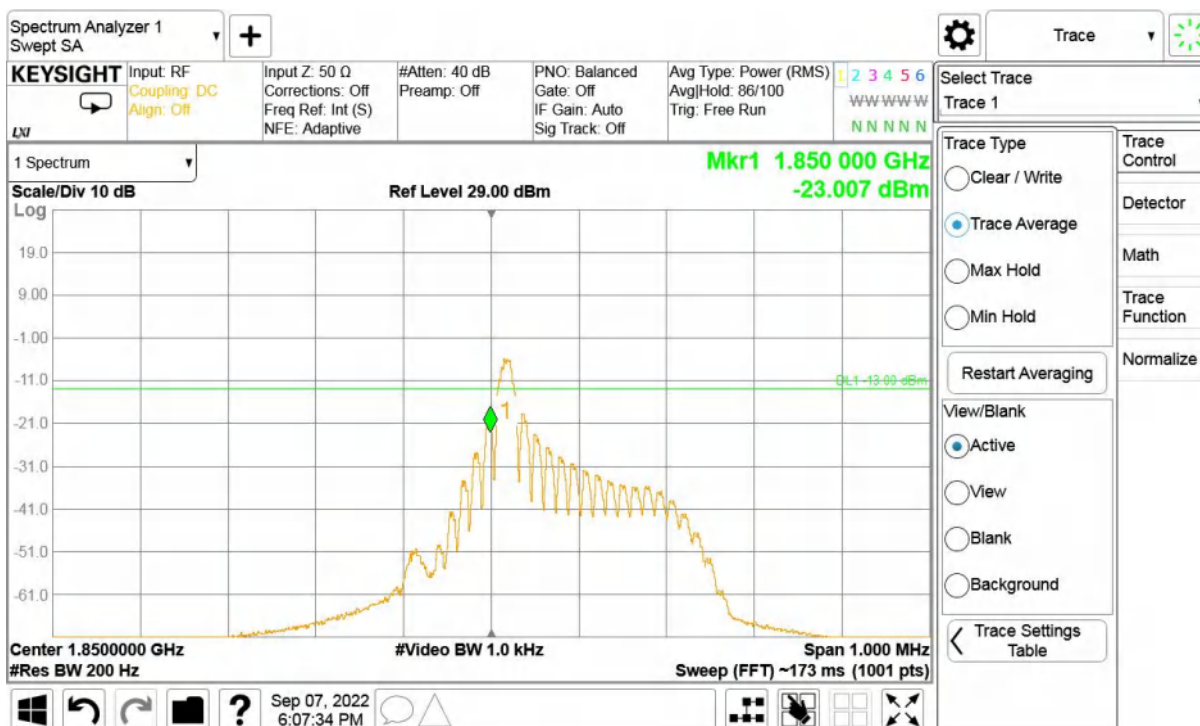
Low Channel, Subcarrier (3.75kHz), QPSK, 1@0



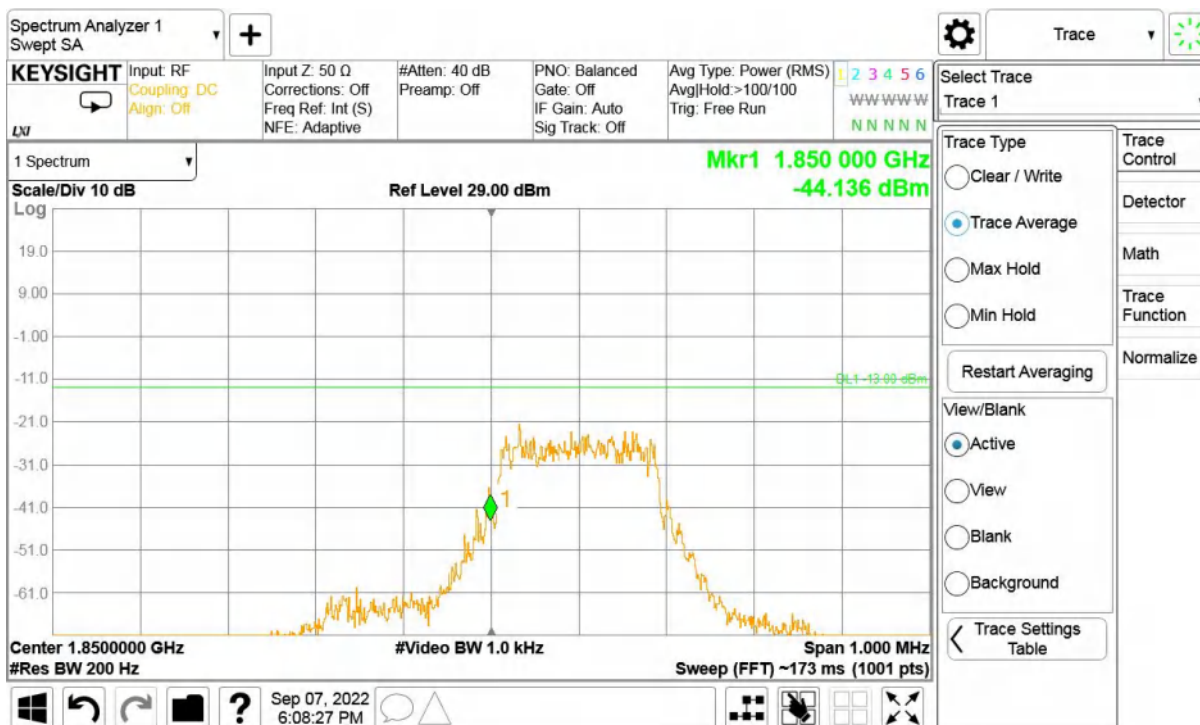
Low Channel, Subcarrier (3.75kHz), BPSK, 1@0

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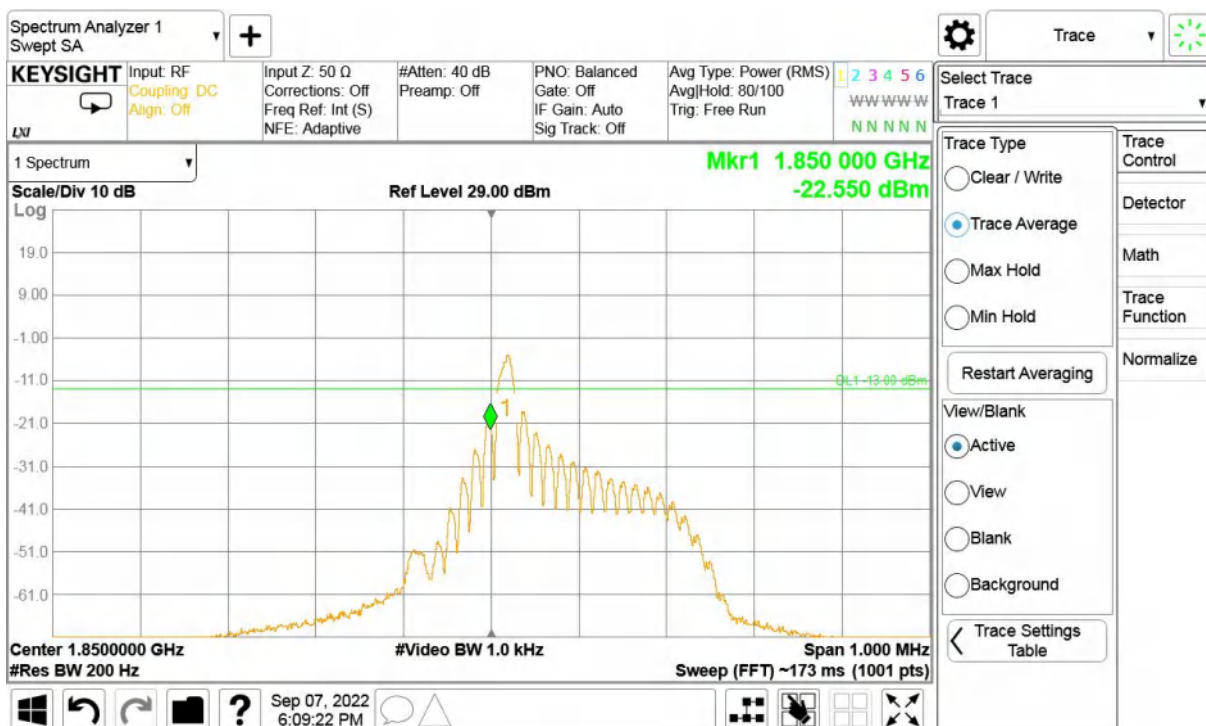
Low Channel, Subcarrier (15kHz), QPSK, 1@0



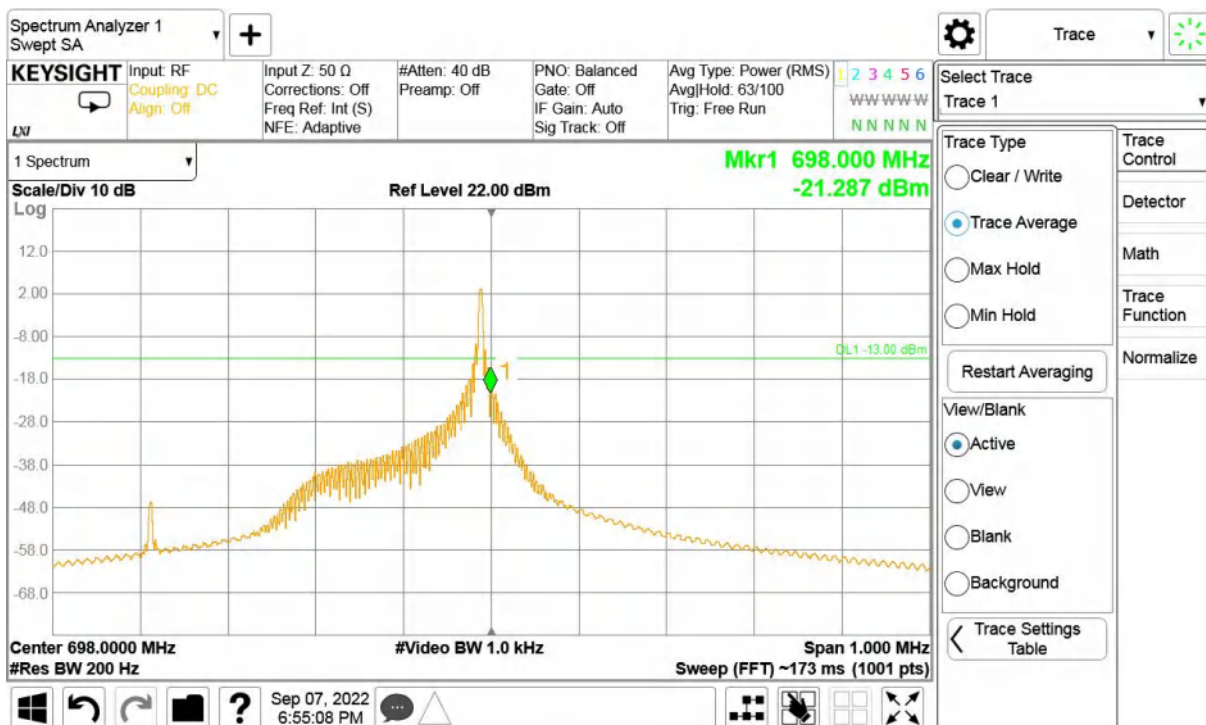
Low Channel, Subcarrier (15kHz), QPSK, 12@0

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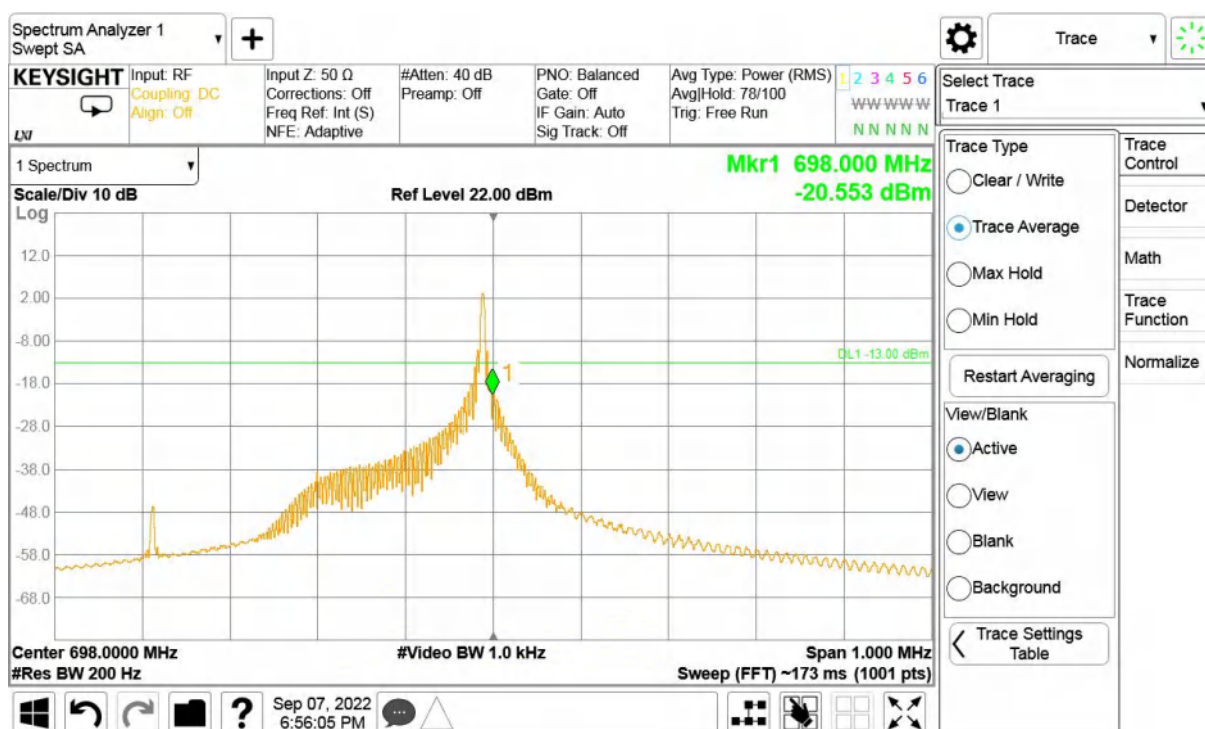
Low Channel, Subcarrier (15kHz), BPSK, 1@0



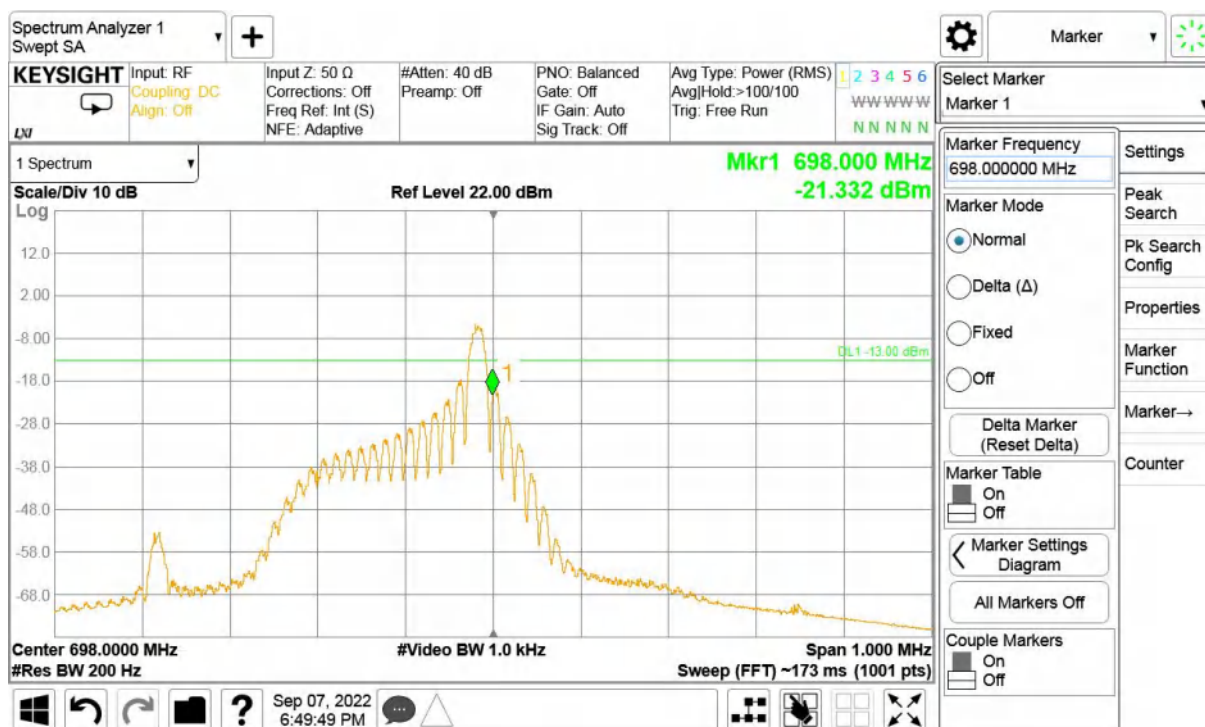
High Channel, Subcarrier (3.75kHz), QPSK, 1@47

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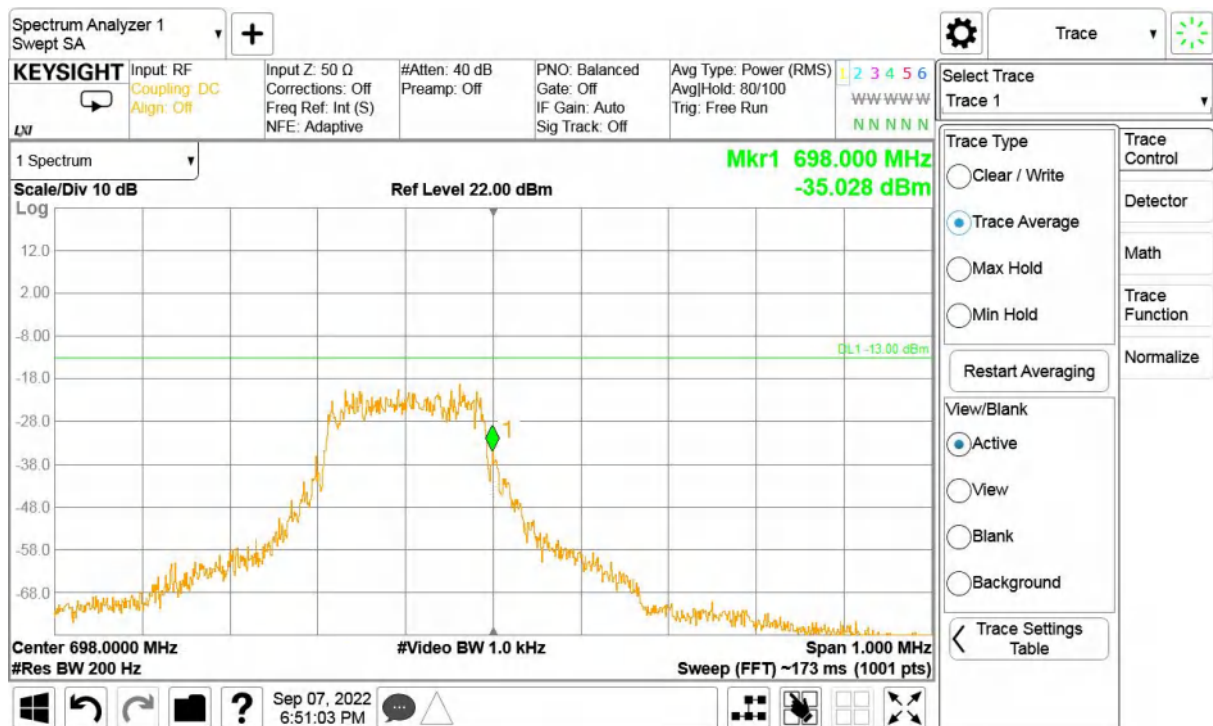
High Channel, Subcarrier (3.75kHz), BPSK, 1@47



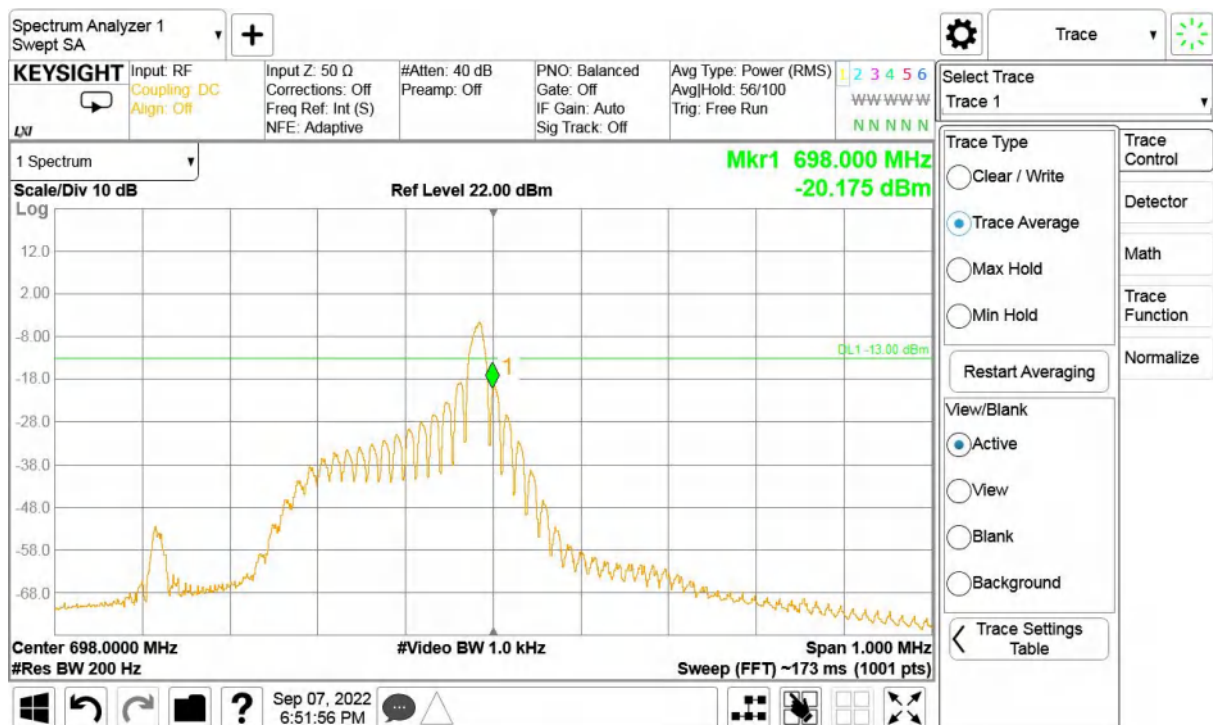
High Channel, Subcarrier (15kHz), QPSK, 1@11

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High Channel, Subcarrier (15kHz), QPSK, 12@0

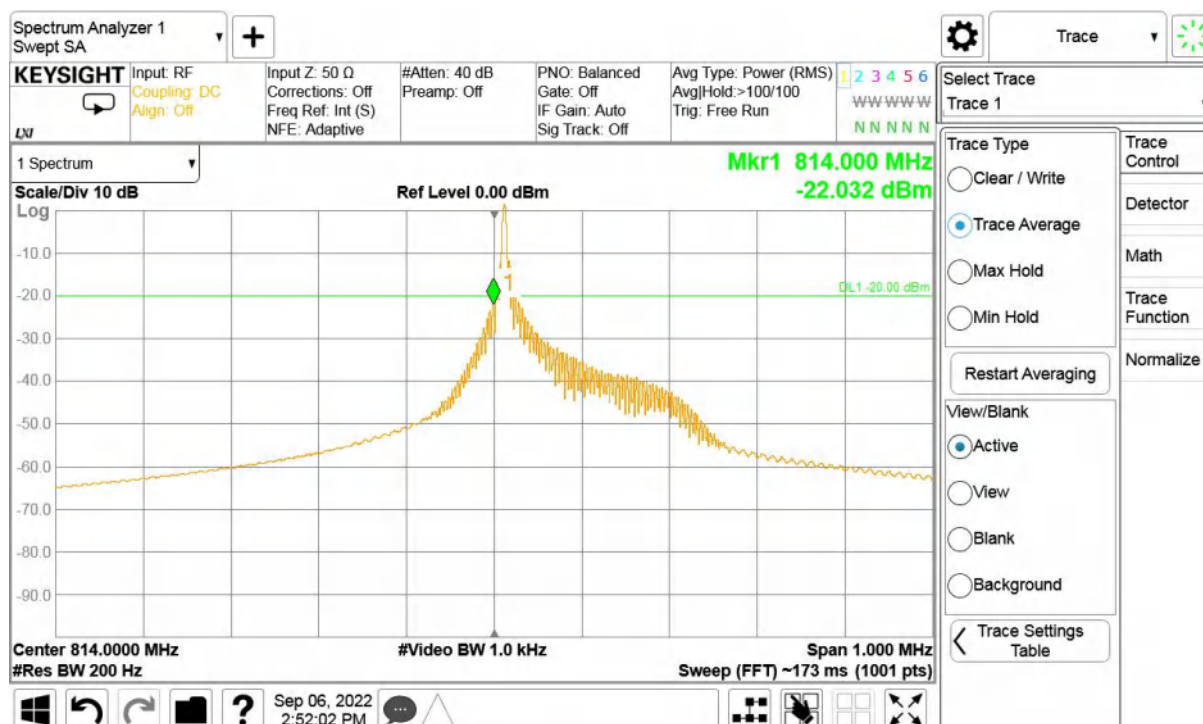
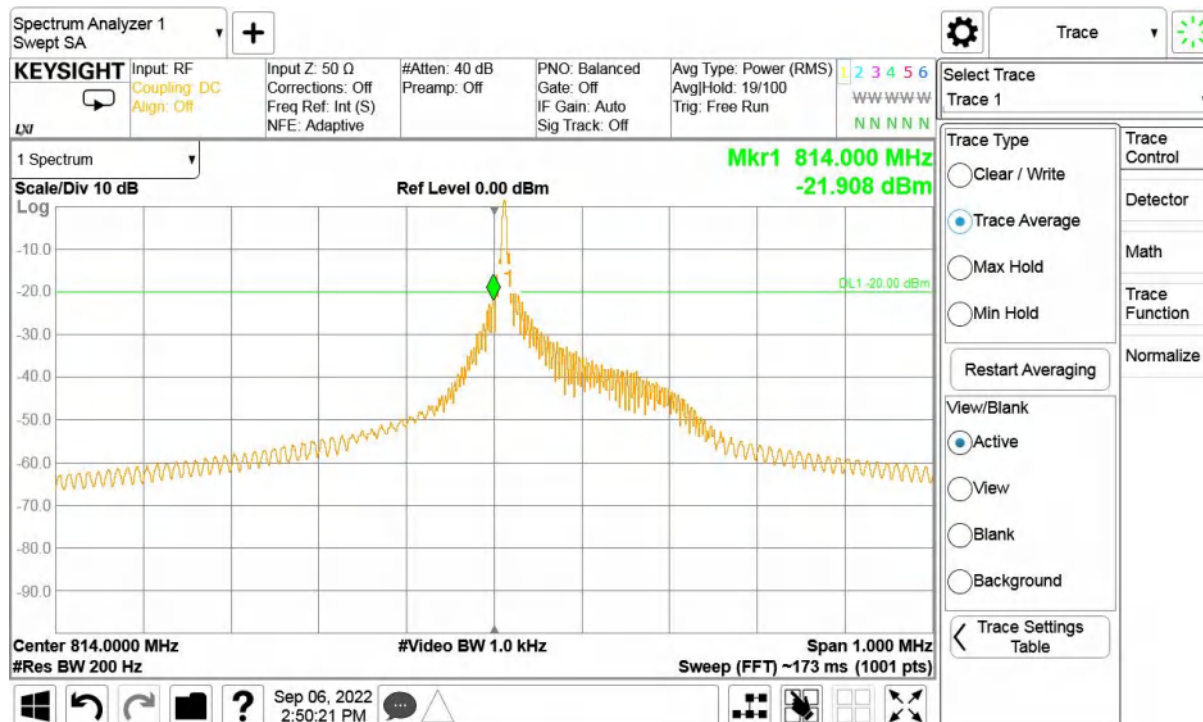


High Channel, Subcarrier (15kHz), BPSK, 1@11

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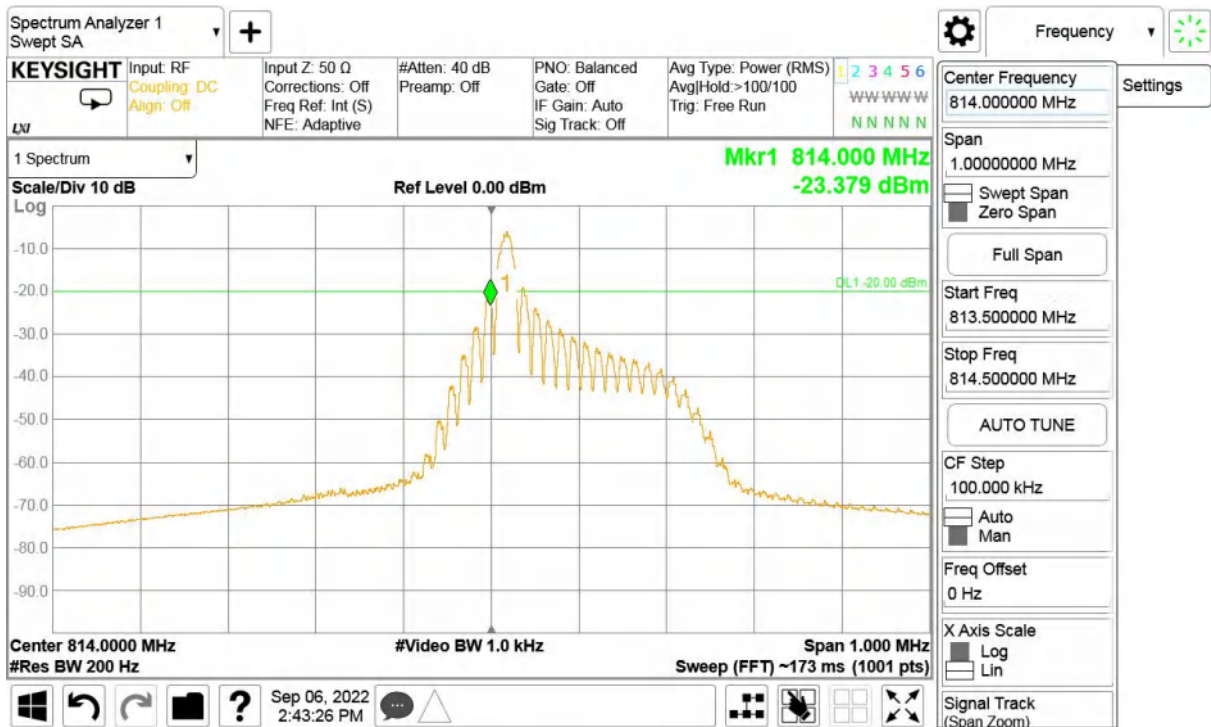
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6.7.6 NB-IoT Band 26 Edge Results (814MHz-824MHz)

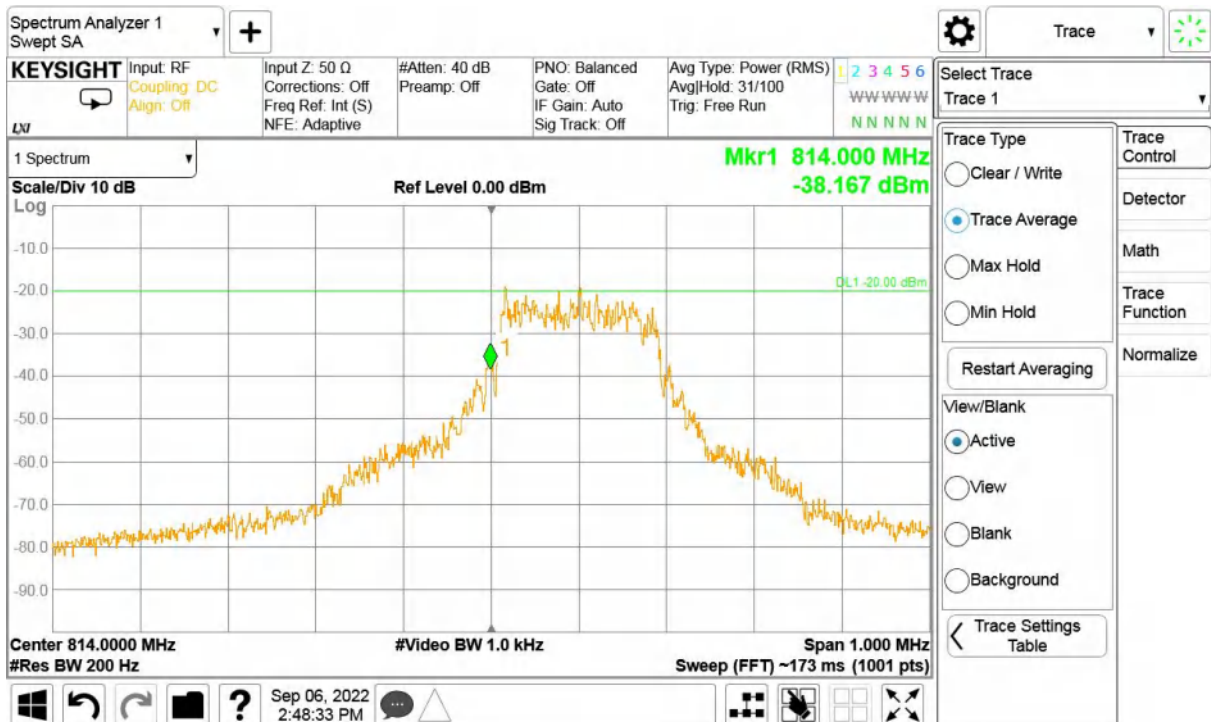


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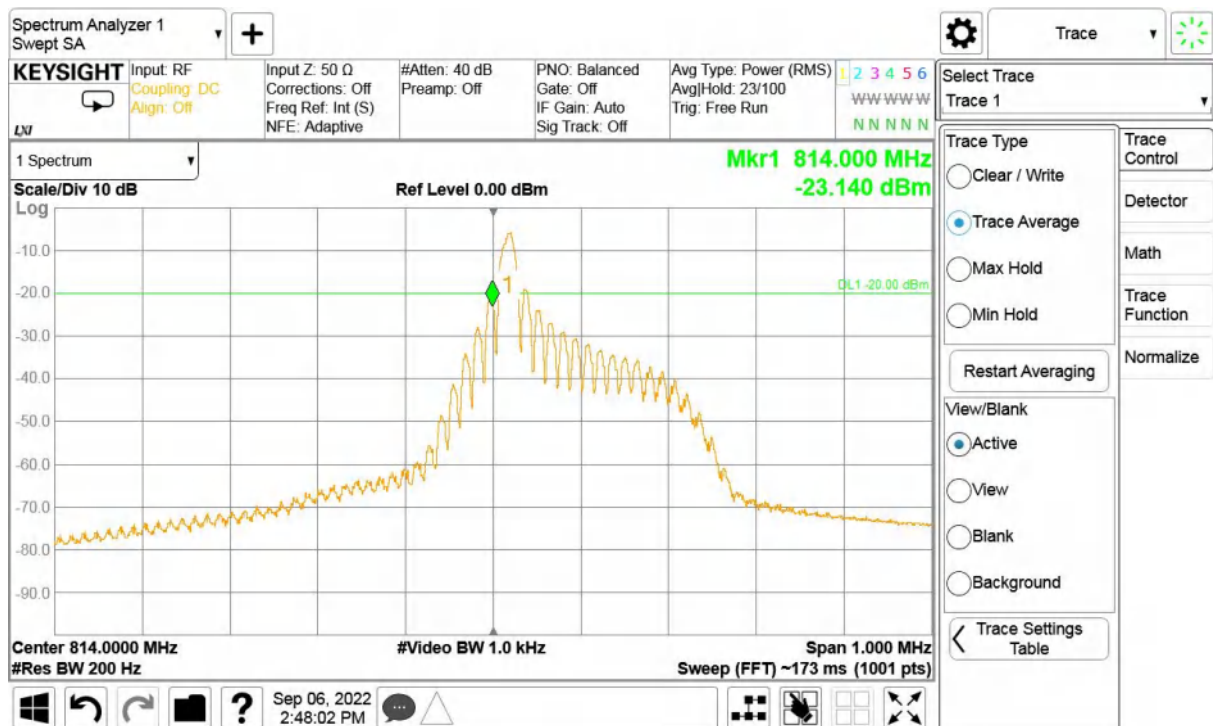
Low Channel, Subcarrier (15kHz), QPSK, 1@0



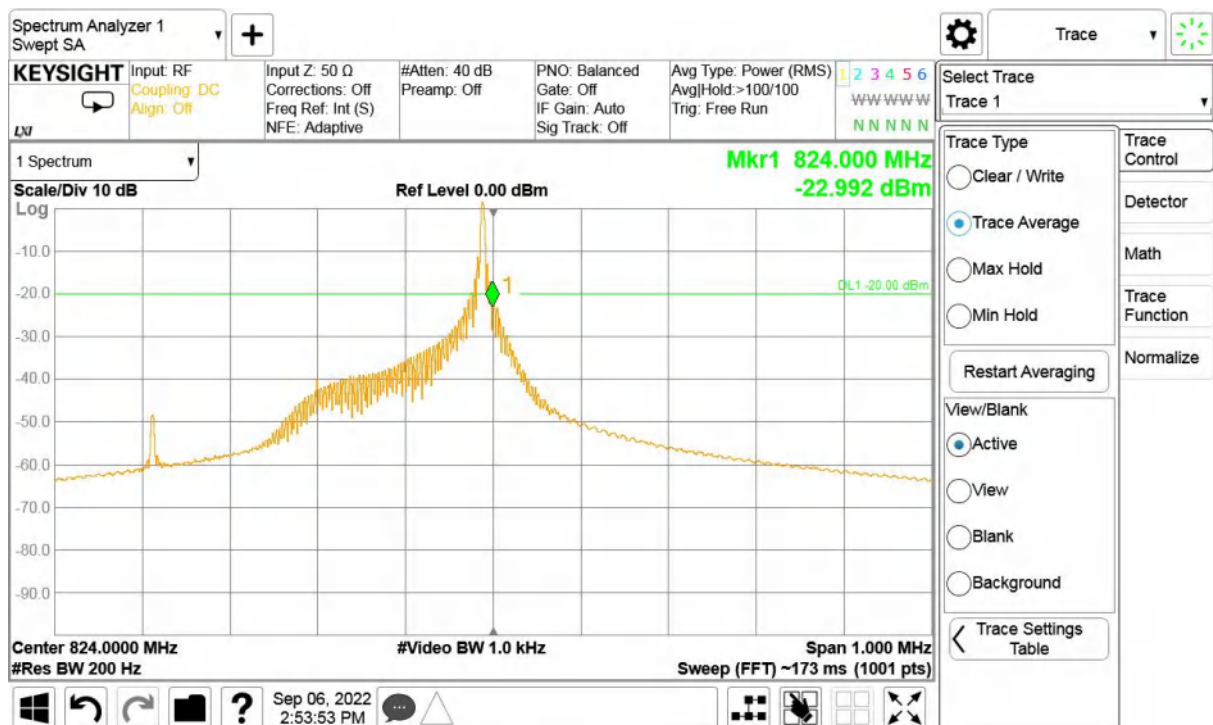
Low Channel, Subcarrier (15kHz), QPSK, 12@0

Chongqing Academy of Information and Communication Technology

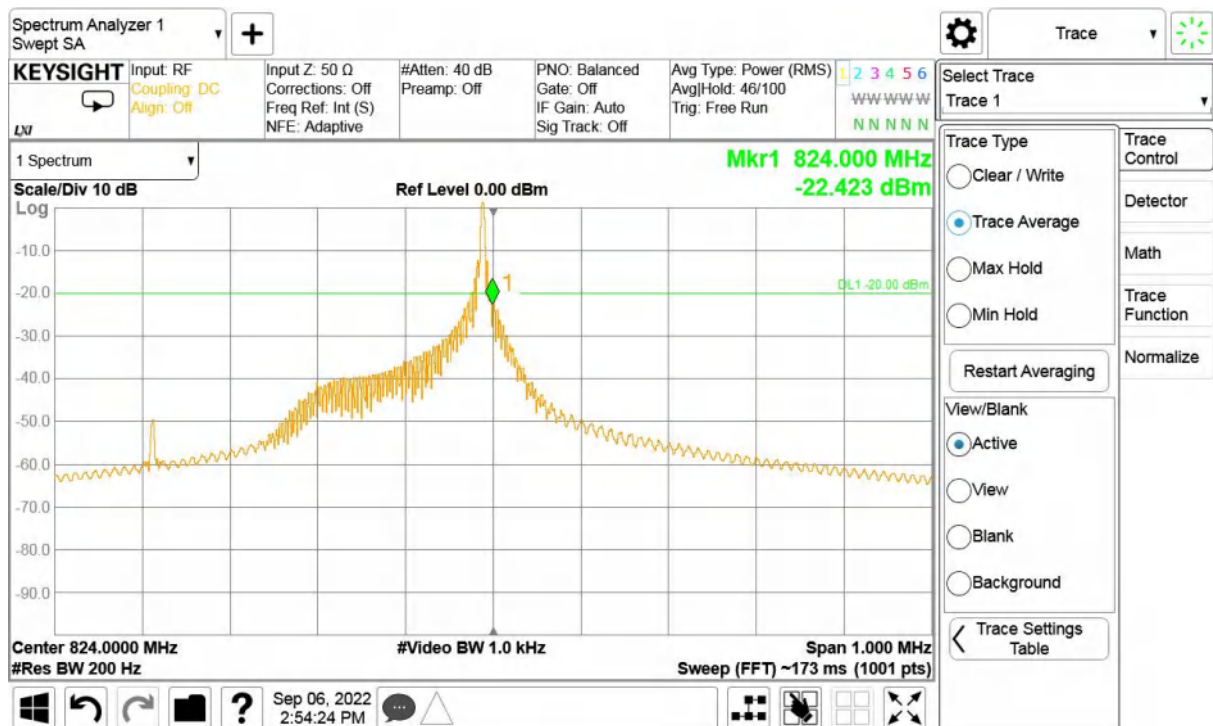
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX:0086-23-88608777



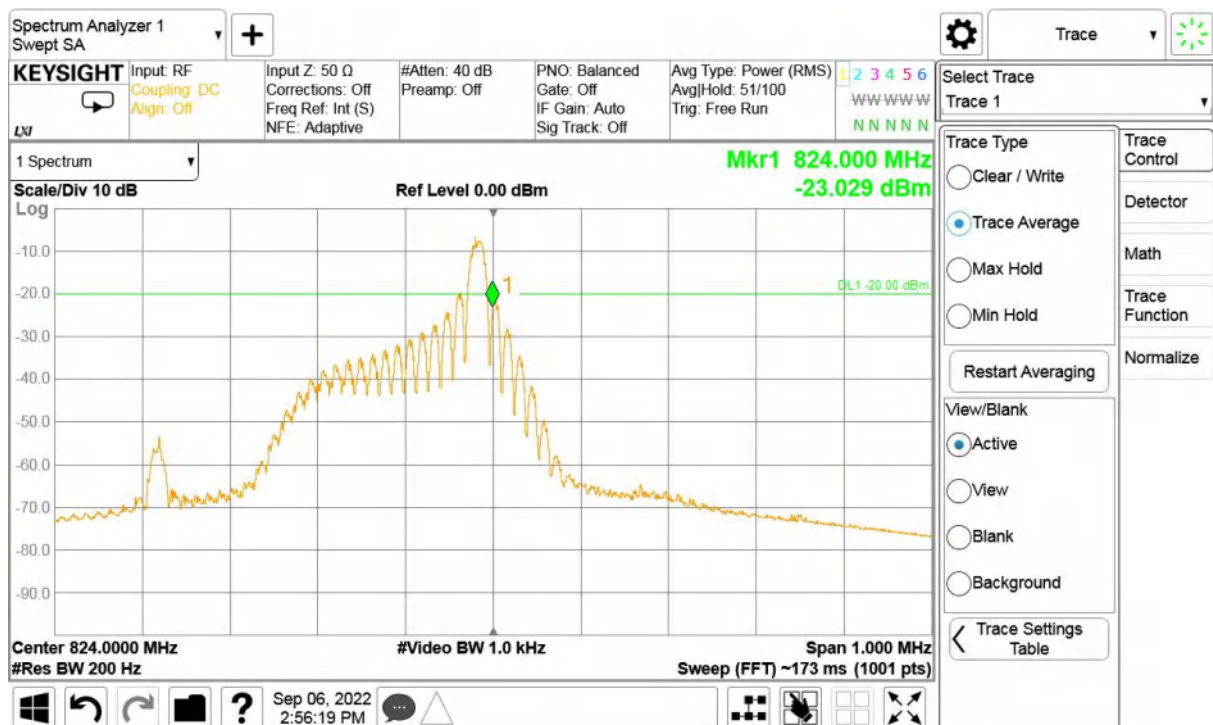
Low Channel, Subcarrier (15kHz), BPSK, 1@0



High Channel, Subcarrier (3.75kHz), QPSK, 1@47



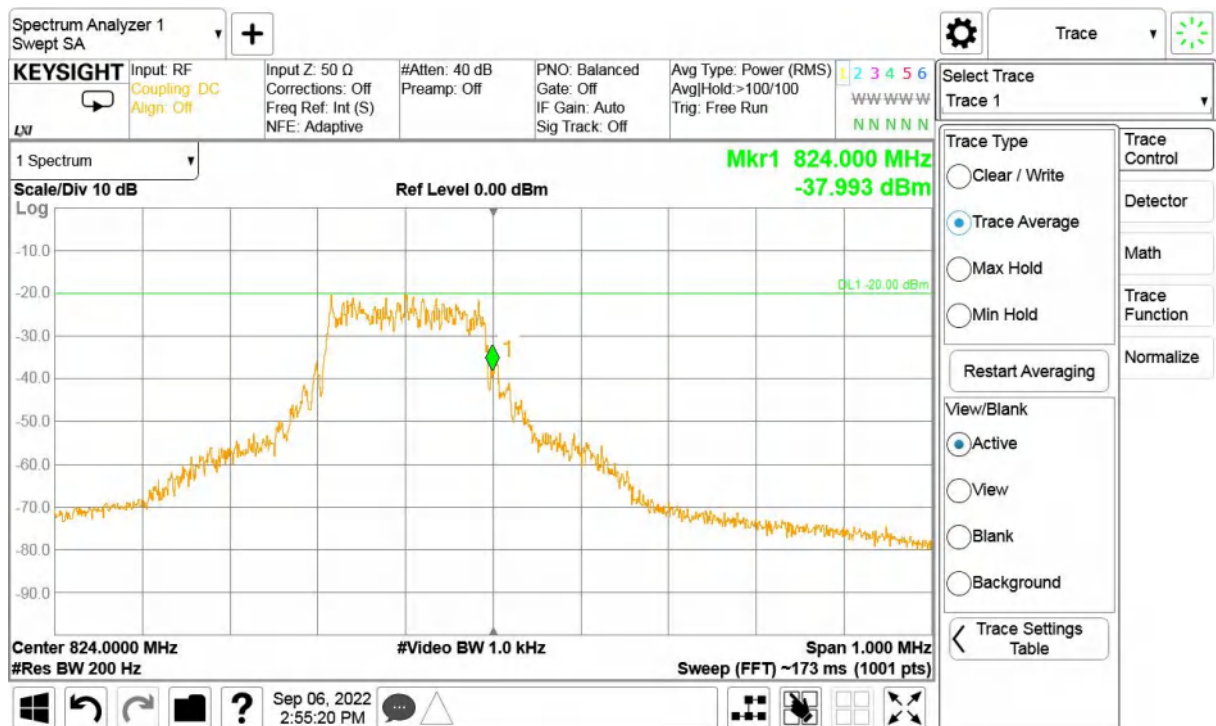
High Channel, Subcarrier (3.75kHz), BPSK, 1@47



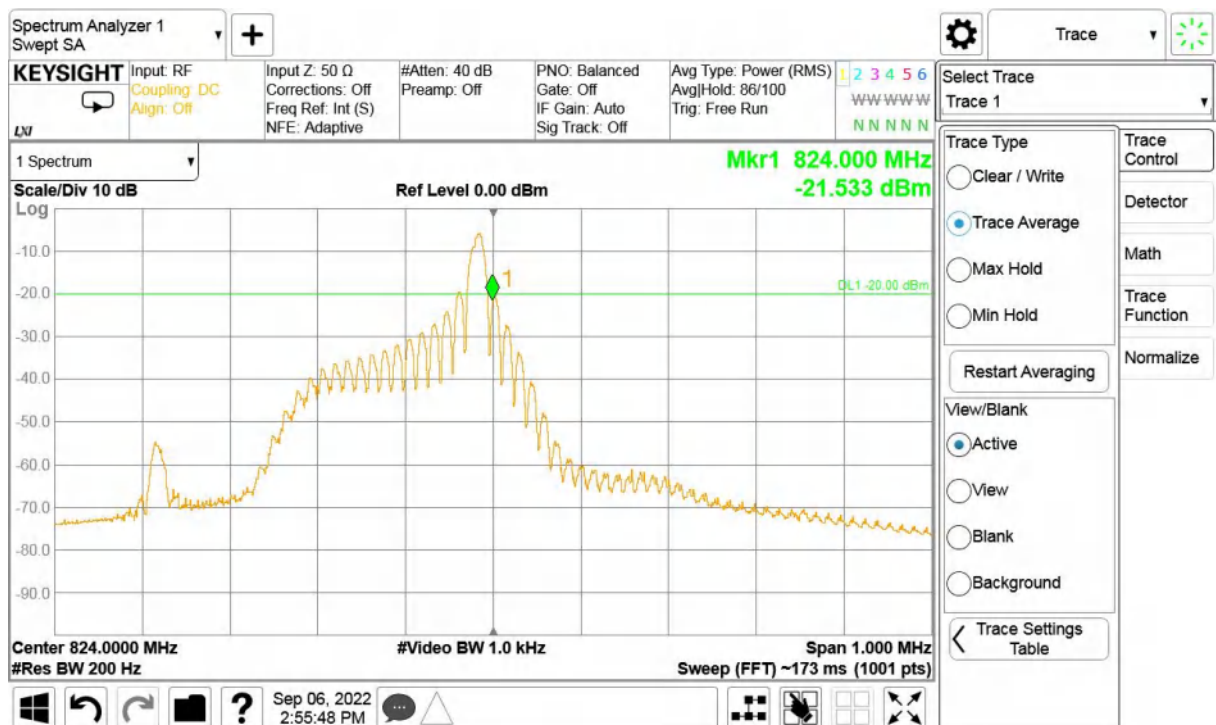
High Channel, Subcarrier (15kHz), QPSK, 1@11

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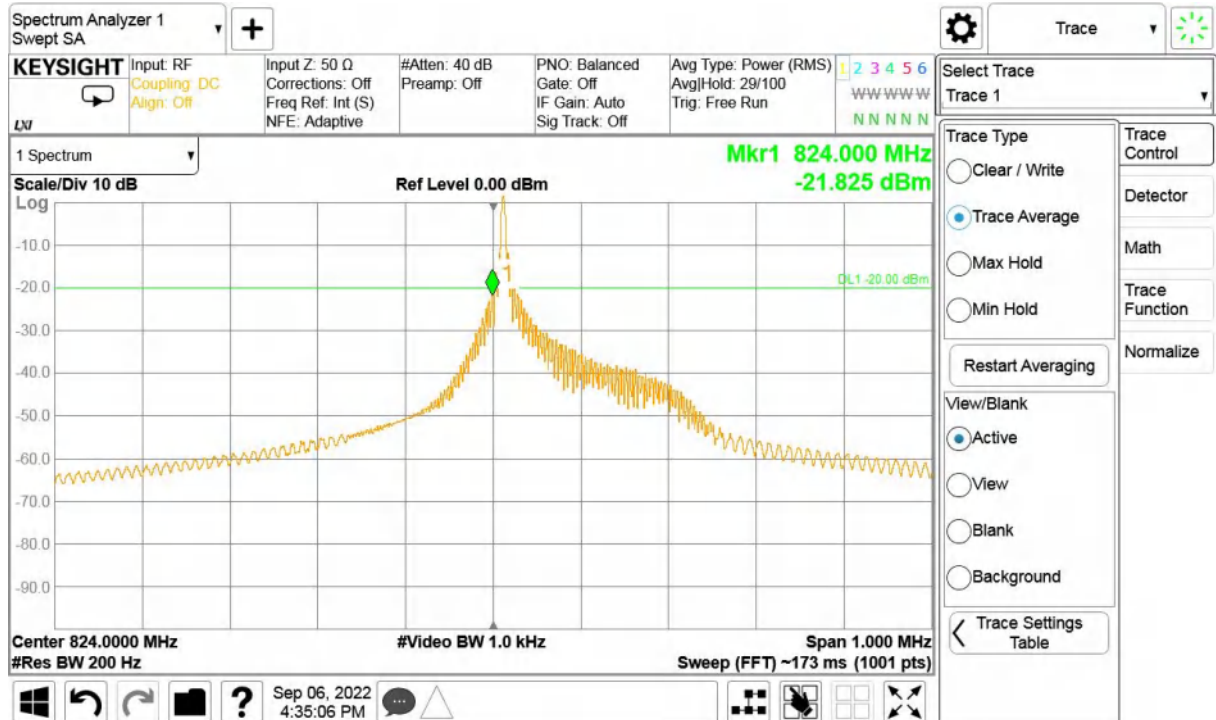


High Channel, Subcarrier (15kHz), QPSK, 12@0

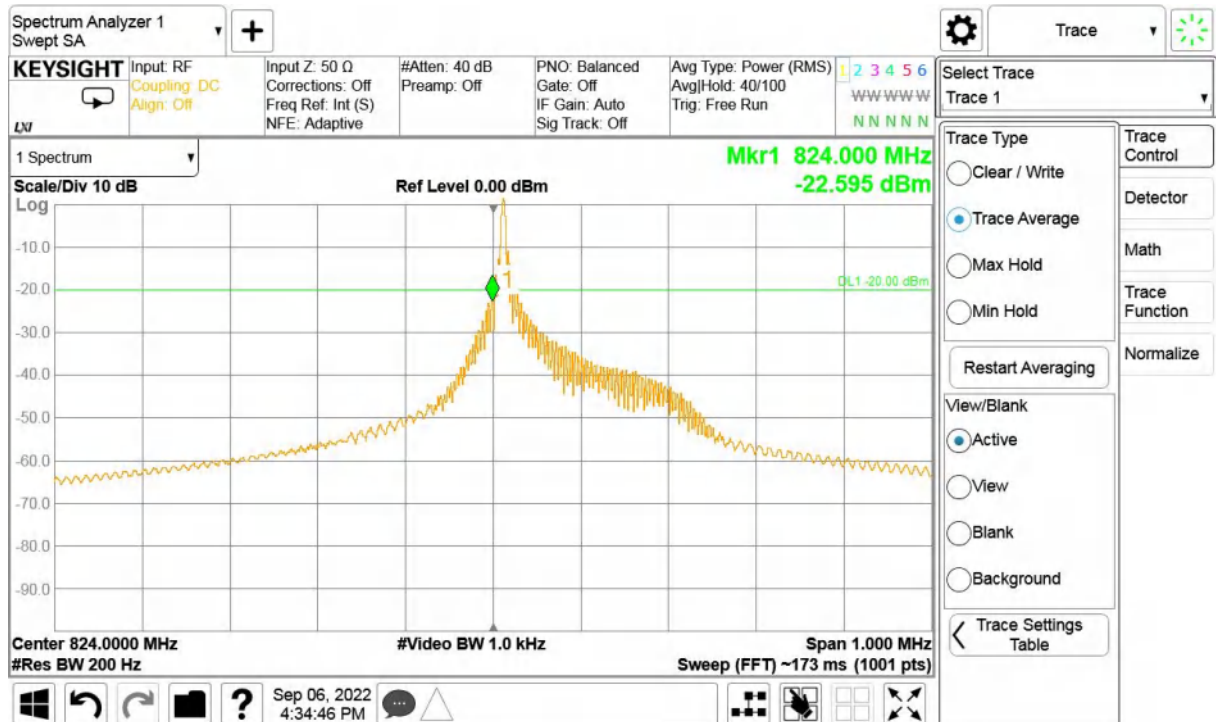


High Channel, Subcarrier (15kHz), BPSK, 1@11

(824MHz-849MHz)



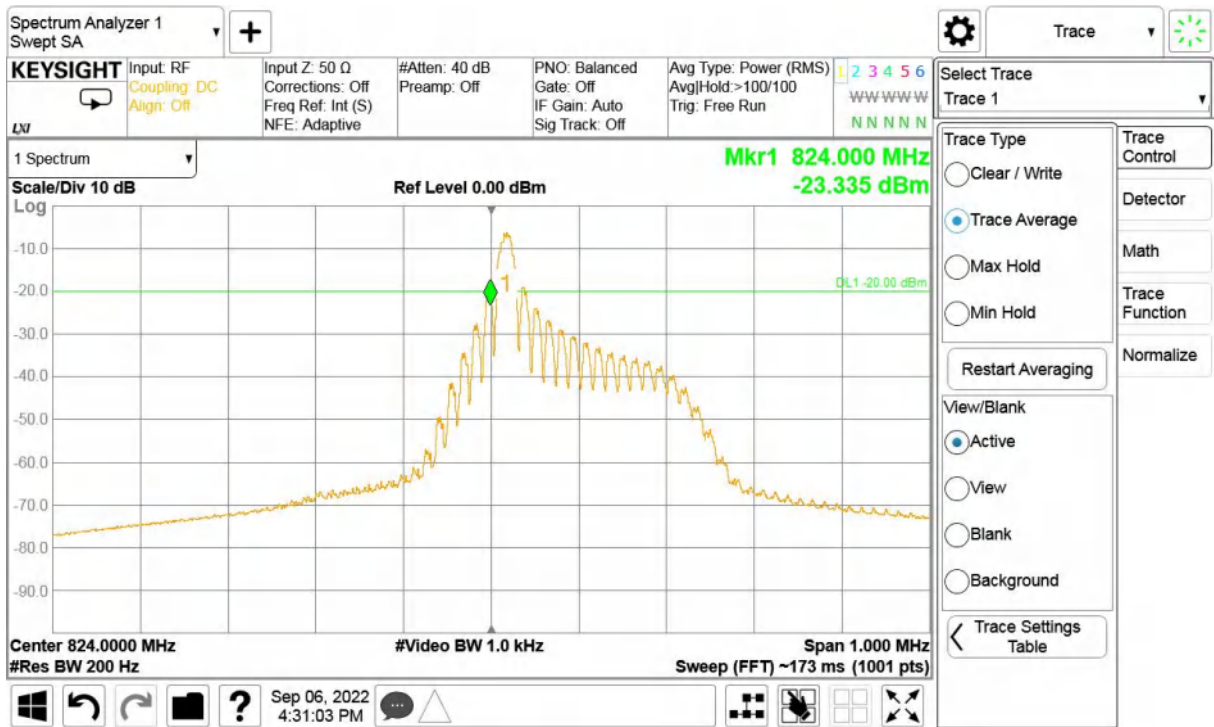
Low Channel, Subcarrier (3.75kHz), QPSK, 1@0



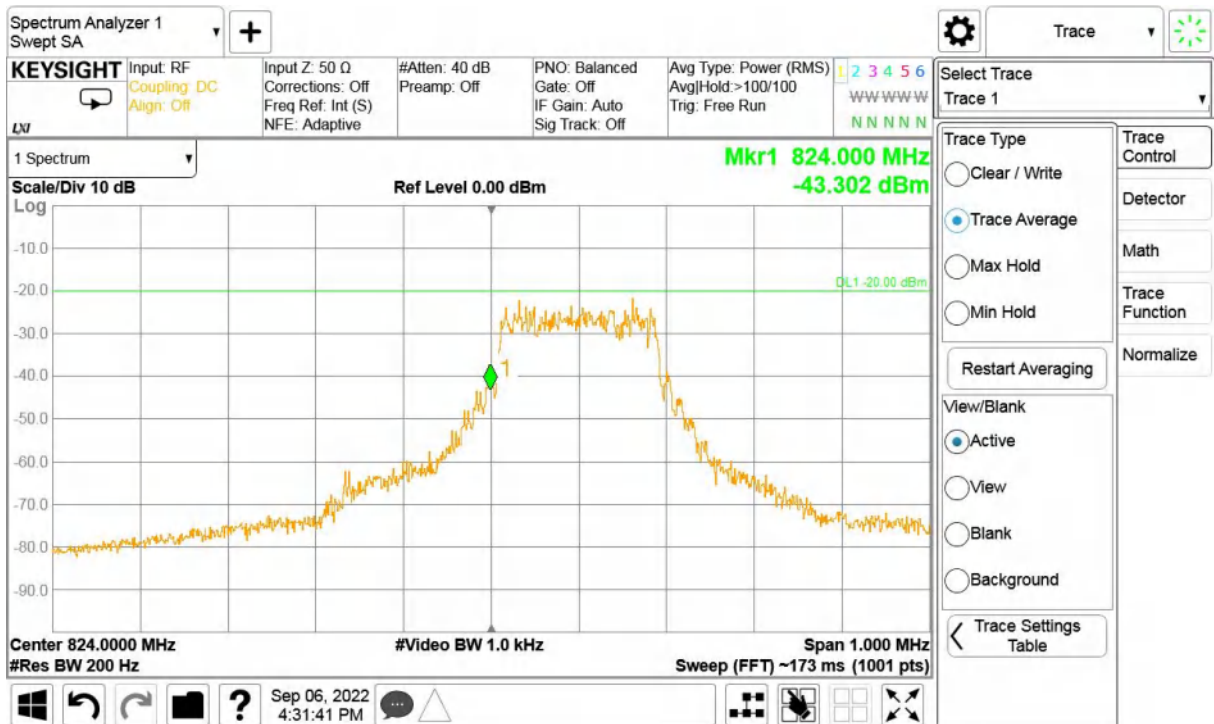
Low Channel, Subcarrier (3.75kHz), BPSK, 1@0

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Low Channel, Subcarrier (15kHz), QPSK, 1@0



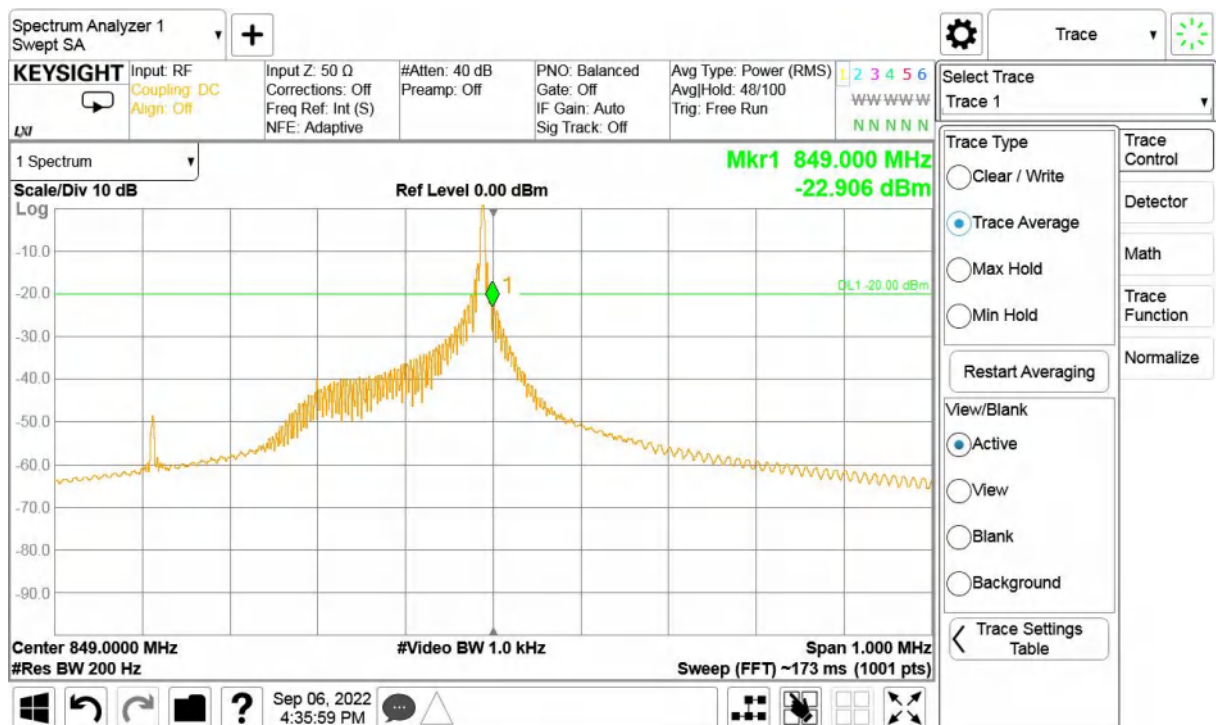
Low Channel, Subcarrier (15kHz), QPSK, 12@0

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Low Channel, Subcarrier (15kHz), BPSK, 1@0



High Channel, Subcarrier (3.75kHz), QPSK, 1@47

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