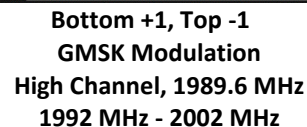
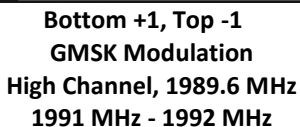
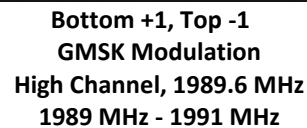
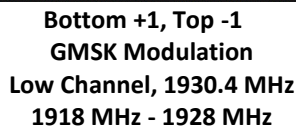
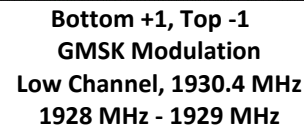
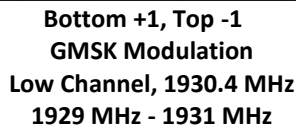
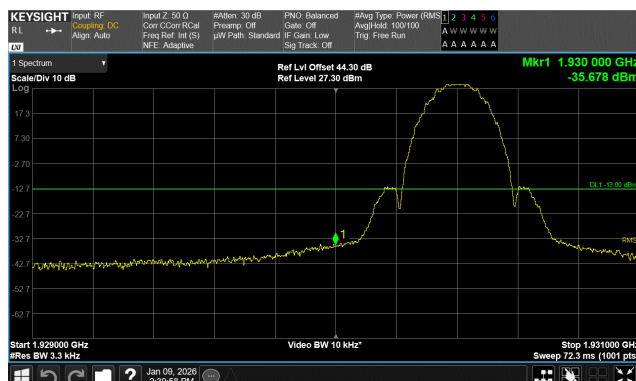


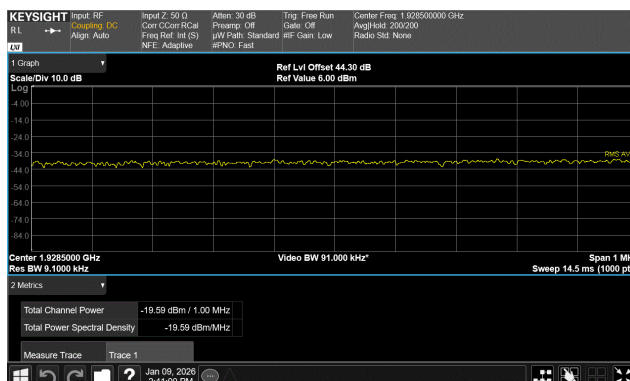
TbtTx 2024.05.24.1
 WTD.2025.08.28.0



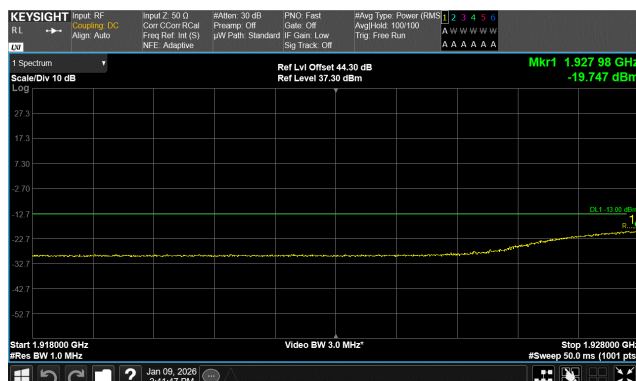
BAND EDGE COMPLIANCE - GSM



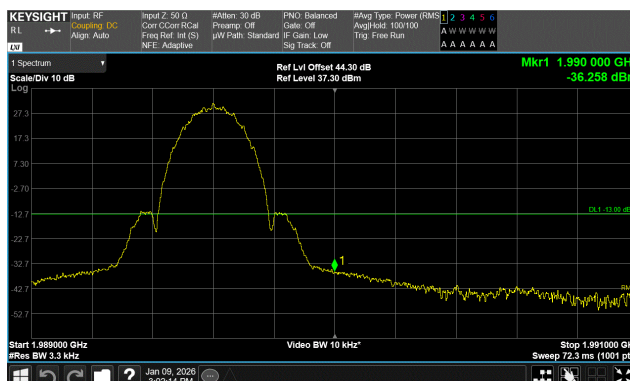
**Bottom +1, Top -1
8PSK Modulation
Low Channel, 1930.4 MHz
1929 MHz - 1931 MHz**



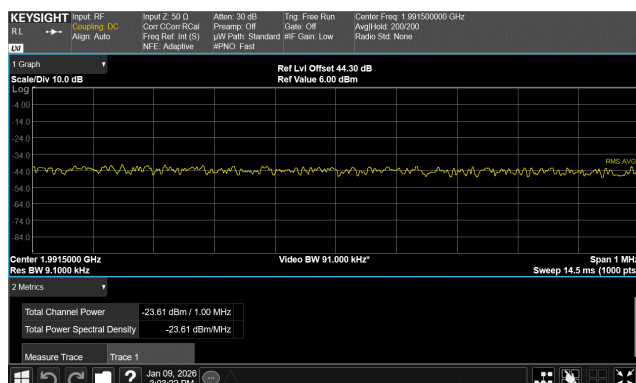
**Bottom +1, Top -1
8PSK Modulation
Low Channel, 1930.4 MHz
1928 MHz - 1929 MHz**



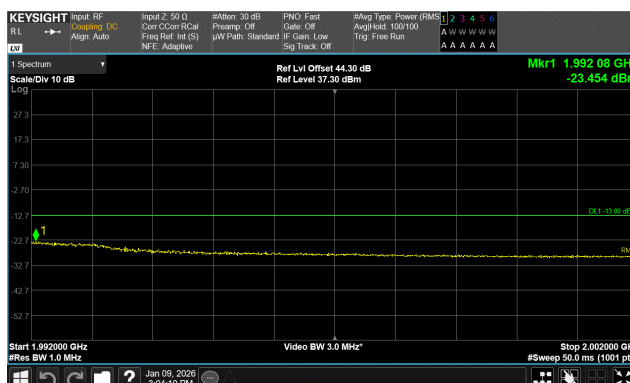
**Bottom +1, Top -1
8PSK Modulation
Low Channel, 1930.4 MHz
1918 MHz - 1928 MHz**



**Bottom +1, Top -1
8PSK Modulation
High Channel, 1989.6 MHz
1989 MHz - 1991 MHz**



**Bottom +1, Top -1
8PSK Modulation
High Channel, 1989.6 MHz
1991 MHz - 1992 MHz**



**Bottom +1, Top -1
8PSK Modulation
High Channel, 1989.6 MHz
1992 MHz - 2002 MHz**

BAND EDGE COMPLIANCE - MULTICARRIER



TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The spectrum was scanned below the lower band edge and above the higher band edge.

The RBW to be used for these measurements are per 27.53(h)(3). Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1-megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified).

Per section 24.238(a) the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The 2G GSM/EDGE carriers are not MIMO. The limit is -13 dBm.

Per section 24.238(a) the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -16 dBm [-13 dBm -10 log (2)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 2 port MIMO transmitter.

Per section 27.53(h)(1), the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -16 dBm [-13 dBm -10 log (2)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 2 port MIMO transmitter.

The RBW to be used for these measurements are per 24.238(b). Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1-megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified).

RF conducted emissions testing was performed only one port. The testing was performed on the same version of hardware (AHFII) as the original certification test. The AHFII antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraph 5.7.2i.

2G GSM RF conducted spurious emissions at band edge measurements will be made twice to demonstrate compliance – at reduced 2G GSM carrier power at band edge channel (1930.2MHz and 1989.8MHz) and at full 2G GSM carrier power (40W) at one channel in (i.e.: 1930.2 +1 channel) and 1989.8MHz -1 channel) from the band edge channel.

WCDMA Multicarrier test cases have been developed as shown below:

PCS Multicarrier Multiband Test Case 1: In the PCS band – Three WCDMA carriers using two carriers (with minimum spacing between carrier frequencies) at the lower band edge (1932.4 & 1937.4MHz) and a third carrier with maximum spacing between the other two carrier frequencies (1987.6MHz) at the upper band edge. In the AWS band – Two WCDMA carriers at the band middle (2137.4 & 2142.4MHz). The carriers are operated at maximum power (~26.6W/PCS carrier and 20W/AWS carrier) with a total port power of 120 watts (80W for PCS band carriers + 40W for AWS band carriers).

PCS Multicarrier Multiband Test Case 2: In the PCS band – Two WCDMA carriers using two carriers (with maximum spacing between carrier frequencies) at the lower band edge (1932.4MHz) and (1987.6MHz) at the upper band edge. In the AWS band – Two WCDMA carriers at the band middle (2137.4 & 2142.4MHz). The carriers are operated at maximum power (~40W/PCS carrier and 20W/AWS carrier) with a total port power of 120 watts (80W for PCS band carriers + 40W for AWS band carriers).

BAND EDGE COMPLIANCE - MULTICARRIER

AWS Multicarrier Multiband Test Case 3: In the AWS band – Three WCDMA carriers using two carriers (with minimum spacing between carrier frequencies) at the lower band edge (2112.4 & 2117.4MHz) and a third carrier with maximum spacing between the other two carrier frequencies (2167.6MHz) at the upper band edge. In the PCS band: Two WCDMA carriers at band middle (1957.4 & 1962.4MHz). The carriers are operated at maximum power (~26.6W/AWS carrier and 20W/PCS carrier) with a total port power of 120 watts (80W for AWS band carriers + 40W for PCS band carriers).

AWS Multicarrier Multiband Test Case 4: In the AWS band – Two WCDMA carriers using two carriers (with maximum spacing between carrier frequencies) at the lower band edge (2112.4MHz) and (2167.6MHz) at the upper band edge. In the PCS band: Two WCDMA carriers at band middle (1957.4 & 1962.4MHz). The carriers are operated at maximum power (~40W/AWS carrier and 20W/PCS carrier) with a total port power of 120 watts (80W for AWS band carriers + 40W for PCS band carriers).

GSM Multicarrier test cases have been developed as shown below:

Multicarrier Test Case 1: In the PCS band (Band 2) – Three GSM/EDGE carriers (operating at maximum power → 20W/carrier) using two carriers (with minimum spacing between carrier frequencies) at the lower band edge +1 (1930.4 & 1930.8MHz) and a third carrier with maximum spacing between the other two carrier frequencies at the upper band edge -1 (1989.6MHz). A single WCDMA carrier operating at maximum power (20W) at PCS Band middle channel (1960.0MHz). In the AWS band _ Single WCDMA carrier at 40W at the middle channel (2155.0MHz). The carriers are operated at maximum power (~20W/PCS carrier and 40W/AWS carrier) with total port power of 120 watts (80W for PCS band carriers + 40W for AWS band carrier).

Multicarrier Test Case 2: In the PCS band (Band 2) – Three GSM/EDGE carriers (operating at reduced power level) using two carriers (with minimum spacing between carrier frequencies) at the lower band edge (1930.2 & 1930.6MHz) and a third carrier with maximum spacing between the other two carrier frequencies at the upper band edge (1989.8MHz). A single WCDMA carrier operating at maximum power (20W) at PCS Band middle channel (1960.0MHz). In the AWS band _ Single WCDMA carrier at 40W at the middle channel (2155.0MHz). The GSM carriers operated at reduced power level that will pass at upper and lower band edges.

Multicarrier Test Case 3: In the PCS band (Band 2) – Two GSM/EDGE carriers (operating at maximum power → 36W/carrier) using two carriers (with maximum spacing between carrier frequencies) at the lower band edge +1 (1930.4MHz) at the upper band edge -1 (1989.6MHz). A single WCDMA carrier operating at minimum power (8W) at PCS Band middle channel (1960.0MHz). In the AWS band _ Single WCDMA carrier at 40W at the middle channel (2155.0MHz). The carriers operated at maximum power (~36W/GSM PCS band carrier and ~8W/WCDMA PCS band carrier 40W/AWS carrier) with total port power of 120 watts (80W for PCS band carriers + 40W for AWS band carrier).

Multicarrier Test Case 4: In the PCS band (Band 2) – Two GSM/EDGE carriers (operating at reduce power level) using two carriers (with maximum spacing between carrier frequencies) at the lower band edge (1930.2MHz) at the upper band edge (1989.8MHz). A single WCDMA carrier operating at maximum power (8W) at PCS band middle channel (1960.0MHz). In the AWS band _ Single WCDMA carrier at 40W at the middle channel (2155.0MHz). The GSM carriers operated at reduced power level that will pass at upper and lower band edges.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight Technologies	N9030B	AGA	2025-06-09	2026-06-09
Block - DC	Centric RF	C0140	ANJ	NCR	NCR
Generator - Signal	Agilent	N5173B	TIW	2023-08-07	2026-08-07

Note: The RF Test Setup/ Network (RF cables/Attenuators/filter/etc.) is defined in the configurations section for each test. The RF Test Setup/Network is calibrated using the signal generator and spectrum analyzer prior to test. The RF insertion loss of the RF Test Setup/Network is accounted for by the spectrum analyzer's reference level offset during the RF conducted testing.

BAND EDGE COMPLIANCE - MULTICARRIER



EUT:	Airscale Base Transceiver Station Radio Unit Model AHFI	Work Order:	NOKI0090
Serial Number:	AH251400352	Date:	2026-01-12
Customer:	Nokia Solutions and Networks	Temperature:	28.3°C
Attendees:	John Rattanaovong, David Le	Relative Humidity:	18.9%
Customer Project:	None	Bar. Pressure (PMSL):	1021 mbar
Tested By:	Jarrold Brenden	Job Site:	PT14
Power:	54VDC	Configuration:	NOKI0090-2

COMMENTS

All losses in the measurement path were accounted for in the reference level offset; attenuators, filters, cables, and DC blocks. Carriers were enabled at maximum power levels.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

Tested By

TEST RESULTS

	Frequency Range	Frequency (MHz)	Value (dBm)	Limit (dBm)	Result
Port 1					
3G WCDMA Multicarrier					
Test Case 1					
	1929 MHz - 1931 MHz	1930	-26.241	-16.0	Pass
	1928 MHz - 1929 MHz	1928.5	-20.04	-16.0	Pass
	1918 MHz - 1928 MHz	1927.96	-20.078	-16.0	Pass
	1989 MHz - 1991 MHz	1990	-25.213	-16.0	Pass
	1991 MHz - 1992 MHz	1991.5	-19.98	-16.0	Pass
	1992 MHz - 2002 MHz	1992	-19.449	-16.0	Pass
Test Case 2					
	1929 MHz - 1931 MHz	1930	-24.498	-16.0	Pass
	1928 MHz - 1929 MHz	1928.5	-22.96	-16.0	Pass
	1918 MHz - 1928 MHz	1927.99	-22.923	-16.0	Pass
	1989 MHz - 1991 MHz	1990	-24.385	-16.0	Pass
	1991 MHz - 1992 MHz	1991.5	-24.15	-16.0	Pass
	1992 MHz - 2002 MHz	1992.13	-24.537	-16.0	Pass
Test Case 3					
	2109 MHz - 2111 MHz	2110	-25.906	-16.0	Pass
	2108 MHz - 2109 MHz	2108.5	-25.45	-16.0	Pass
	2098 MHz - 2108 MHz	2107.8	-25.107	-16.0	Pass
	2169 MHz - 2171 MHz	2170	-26.441	-16.0	Pass
	2171 MHz - 2172 MHz	2171.5	-25.5	-16.0	Pass
	2172 MHz - 2182 MHz	2173.25	-25.771	-16.0	Pass
Test Case 4					
	2109 MHz - 2111 MHz	2110	-25.478	-16.0	Pass
	2108 MHz - 2109 MHz	2108.5	-23.01	-16.0	Pass
	2098 MHz - 2108 MHz	2107.51	-23.095	-16.0	Pass

BAND EDGE COMPLIANCE - MULTICARRIER

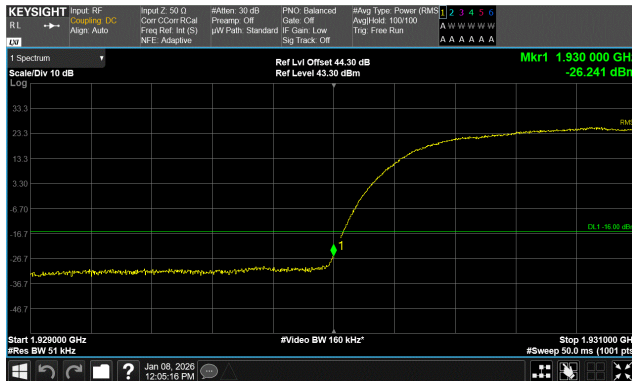
	Frequency Range	Frequency (MHz)	Value (dBm)	Limit (dBm)	Result
	2169 MHz - 2171 MHz	2170	-26.389	-16.0	Pass
	2171 MHz - 2172 MHz	2171.5	-23.46	-16.0	Pass
	2172 MHz - 2182 MHz	2172.09	-22.473	-16.0	Pass
2G GSM/EDGE Multicarrier					
Test Case 1					
GMSK Modulation					
	1929 MHz - 1931 MHz	1930	-36.801	-13.0	Pass
	1928 MHz - 1929 MHz	1928.5	-20.31	-13.0	Pass
	1918 MHz - 1928 MHz	1928	-20.873	-13.0	Pass
	1989 MHz - 1991 MHz	1990.014	-30.405	-13.0	Pass
	1991 MHz - 1992 MHz	1991.5	-20.3	-13.0	Pass
	1992 MHz - 2002 MHz	1992.01	-20.353	-13.0	Pass
8PSK Modulation					
	1929 MHz - 1931 MHz	1930	-30.812	-13.0	Pass
	1928 MHz - 1929 MHz	1928.5	-19.04	-13.0	Pass
	1918 MHz - 1928 MHz	1927.99	-19.587	-13.0	Pass
	1989 MHz - 1991 MHz	1990	-30.001	-13.0	Pass
	1991 MHz - 1992 MHz	1991.5	-16.41	-13.0	Pass
	1992 MHz - 2002 MHz	1992.01	-17.584	-13.0	Pass
Test Case 2					
GMSK Modulation					
	1929 MHz - 1931 MHz	1930	-15.517	-13.0	Pass
	1928 MHz - 1929 MHz	1928.5	-23.46	-13.0	Pass
	1918 MHz - 1928 MHz	1927.98	-24.193	-13.0	Pass
	1989 MHz - 1991 MHz	1990.02	-14.98	-13.0	Pass
	1991 MHz - 1992 MHz	1991.5	-21.82	-13.0	Pass
	1992 MHz - 2002 MHz	1992	-21.796	-13.0	Pass
8PSK Modulation					
	1929 MHz - 1931 MHz	1930	-19.485	-13.0	Pass
	1928 MHz - 1929 MHz	1928.5	-20.09	-13.0	Pass
	1918 MHz - 1928 MHz	1927.9	-21.57	-13.0	Pass
	1989 MHz - 1991 MHz	1990.006	-18.299	-13.0	Pass
	1991 MHz - 1992 MHz	1991.5	-21.43	-13.0	Pass
	1992 MHz - 2002 MHz	1992	-21.582	-13.0	Pass
Test Case 3					
GMSK Modulation					
	1929 MHz - 1931 MHz	1930	-39.463	-13.0	Pass
	1928 MHz - 1929 MHz	1928.5	-25.54	-13.0	Pass
	1918 MHz - 1928 MHz	1927.97	-25.921	-13.0	Pass
	1989 MHz - 1991 MHz	1990.004	-37.497	-13.0	Pass
	1991 MHz - 1992 MHz	1991.5	-23.63	-13.0	Pass
	1992 MHz - 2002 MHz	1992.07	-26.082	-13.0	Pass
8PSK Modulation					
	1929 MHz - 1931 MHz	1930	-37.094	-13.0	Pass
	1928 MHz - 1929 MHz	1928.5	-22.04	-13.0	Pass
	1918 MHz - 1928 MHz	1928	-22.347	-13.0	Pass
	1989 MHz - 1991 MHz	1990	-35.888	-13.0	Pass
	1991 MHz - 1992 MHz	1991.5	-21	-13.0	Pass
	1992 MHz - 2002 MHz	1992.04	-21.081	-13.0	Pass
Test Case 4					
GMSK Modulation					
	1929 MHz - 1931 MHz	1929.982	-15.075	-13.0	Pass
	1928 MHz - 1929 MHz	1928.5	-27.14	-13.0	Pass

BAND EDGE COMPLIANCE - MULTICARRIER

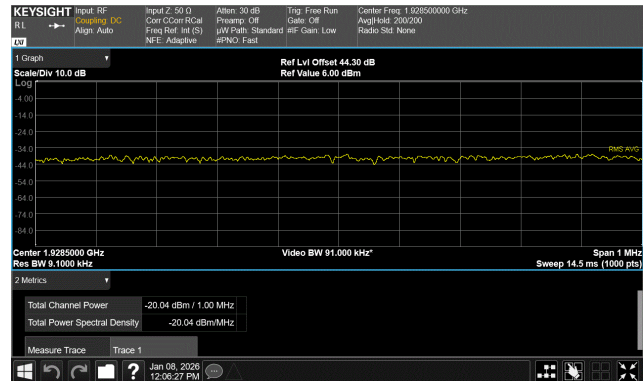


	Frequency Range	Frequency (MHz)	Value (dBm)	Limit (dBm)	Result
	1918 MHz - 1928 MHz	1972.36	-28.307	-13.0	Pass
	1989 MHz - 1991 MHz	1990.022	-14.851	-13.0	Pass
	1991 MHz - 1992 MHz	1991.5	-26.46	-13.0	Pass
	1992 MHz - 2002 MHz	1992.11	-27.179	-13.0	Pass
8PSK Modulation					
	1929 MHz - 1931 MHz	1929.998	-18.857	-13.0	Pass
	1928 MHz - 1929 MHz	1928.5	-26.73	-13.0	Pass
	1918 MHz - 1928 MHz	1927.57	-27.66	-13.0	Pass
	1989 MHz - 1991 MHz	1990.008	-18.259	-13.0	Pass
	1991 MHz - 1992 MHz	1991.5	-24.44	-13.0	Pass
	1992 MHz - 2002 MHz	1992.39	-22.945	-13.0	Pass

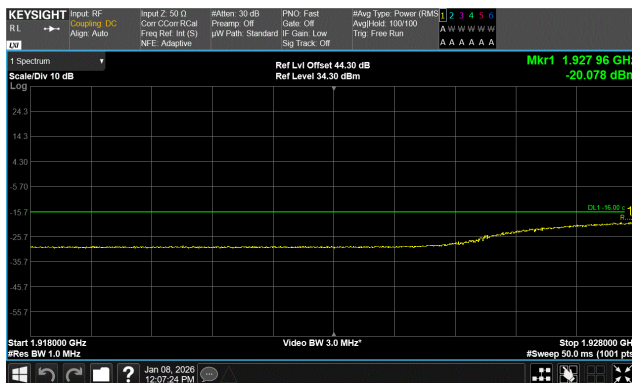
BAND EDGE COMPLIANCE - MULTICARRIER



**3G WCDMA Multicarrier
Test Case 1
1929 MHz - 1931 MHz**



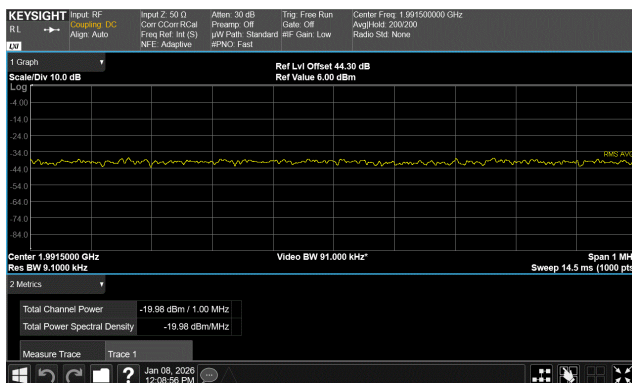
**3G WCDMA Multicarrier
Test Case 1
1928 MHz - 1929 MHz**



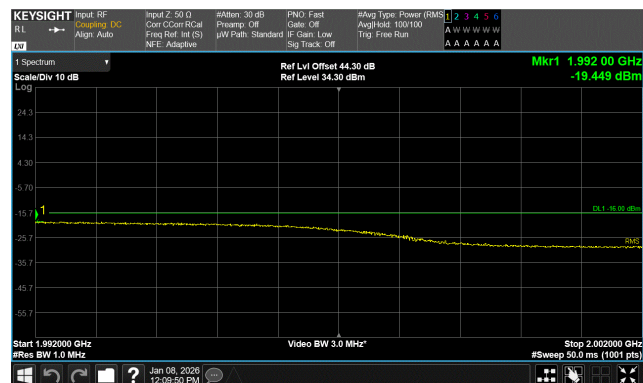
**3G WCDMA Multicarrier
Test Case 1
1918 MHz - 1928 MHz**



**3G WCDMA Multicarrier
Test Case 1
1989 MHz - 1991 MHz**

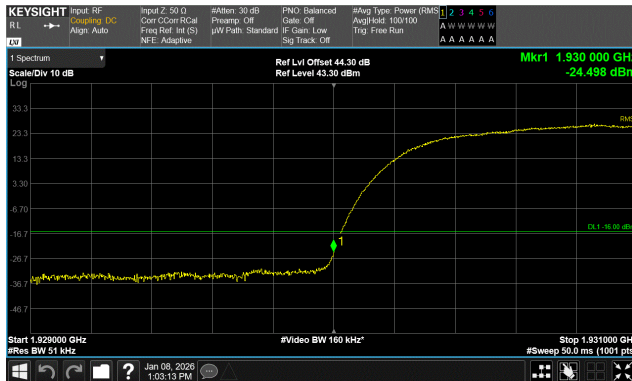


**3G WCDMA Multicarrier
Test Case 1
1991 MHz - 1992 MHz**

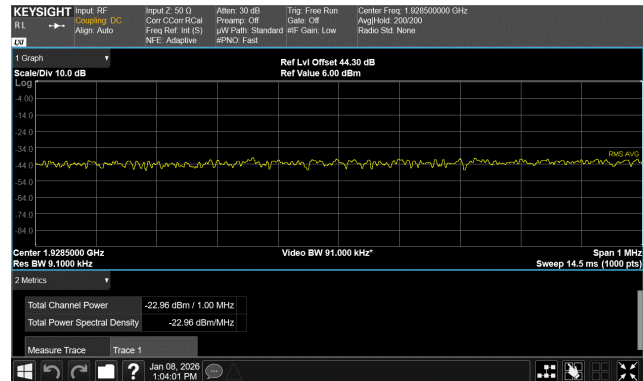


**3G WCDMA Multicarrier
Test Case 1
1992 MHz - 2002 MHz**

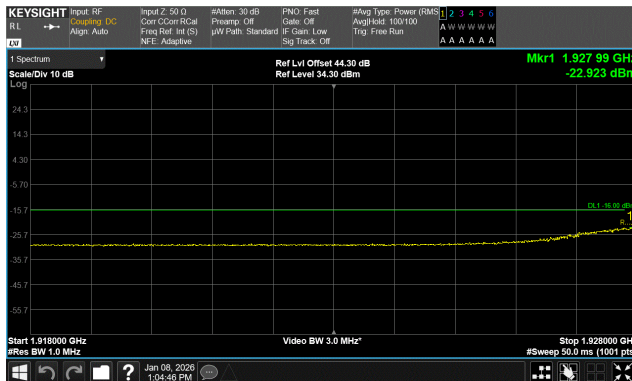
BAND EDGE COMPLIANCE - MULTICARRIER



**3G WCDMA Multicarrier
Test Case 2
1929 MHz - 1931 MHz**



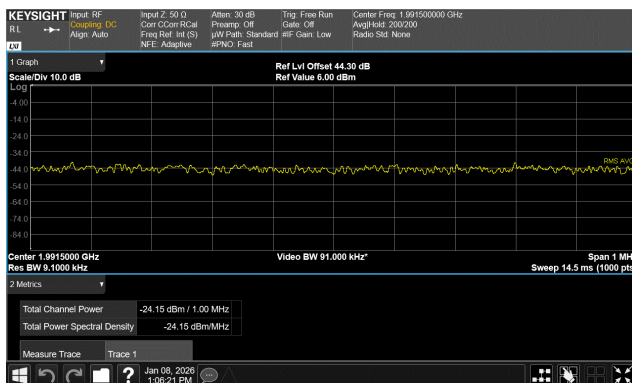
**3G WCDMA Multicarrier
Test Case 2
1928 MHz - 1929 MHz**



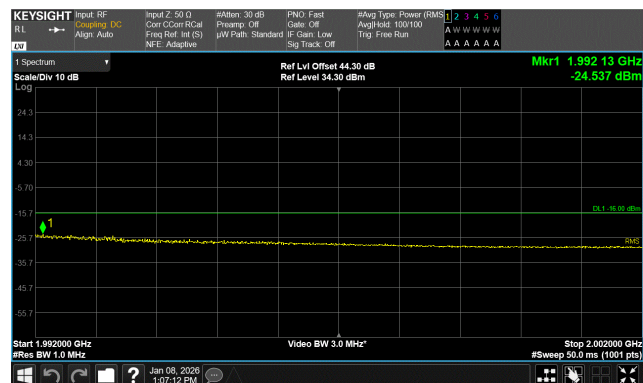
**3G WCDMA Multicarrier
Test Case 2
1918 MHz - 1928 MHz**



**3G WCDMA Multicarrier
Test Case 2
1989 MHz - 1991 MHz**

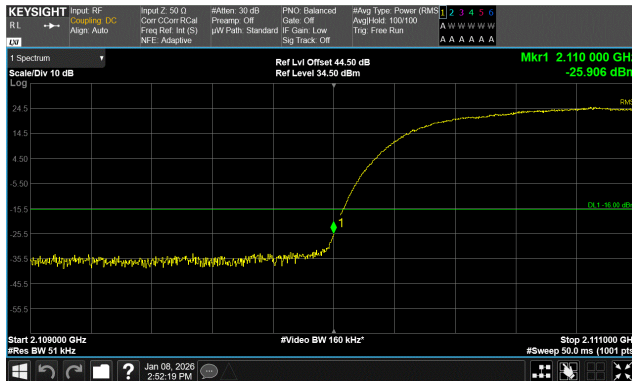


**3G WCDMA Multicarrier
Test Case 2
1991 MHz - 1992 MHz**

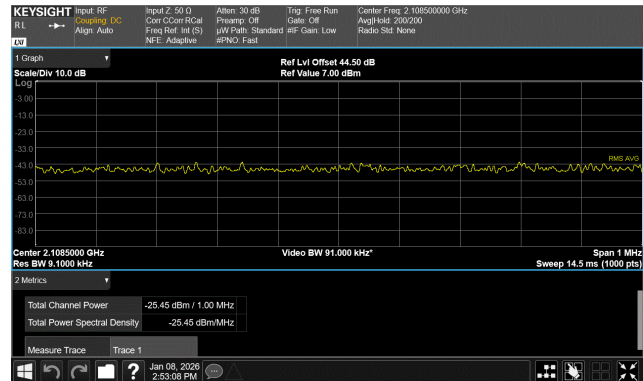


**3G WCDMA Multicarrier
Test Case 2
1992 MHz - 2002 MHz**

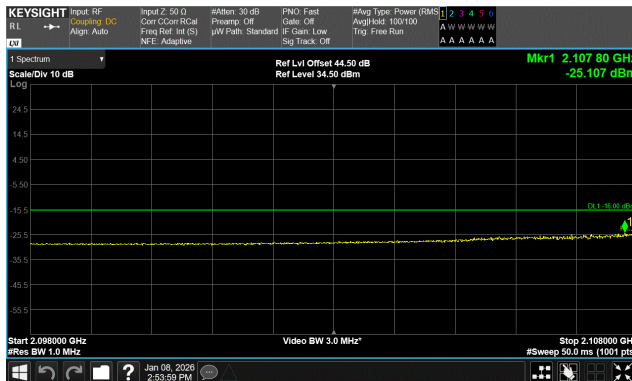
BAND EDGE COMPLIANCE - MULTICARRIER



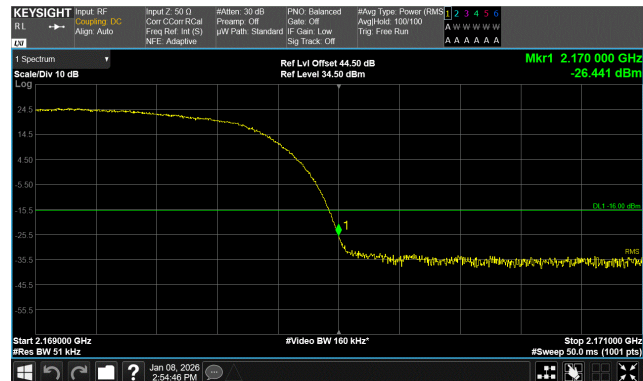
**3G WCDMA Multicarrier
Test Case 3
2109 MHz - 2111 MHz**



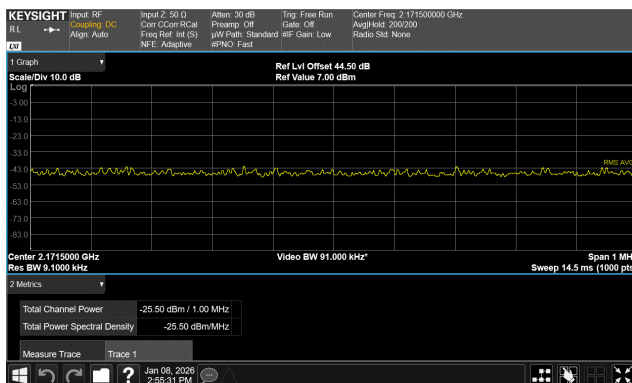
**3G WCDMA Multicarrier
Test Case 3
2108 MHz - 2109 MHz**



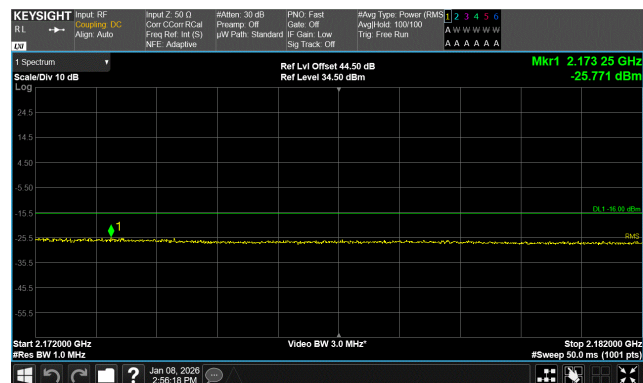
**3G WCDMA Multicarrier
Test Case 3
2098 MHz - 2108 MHz**



**3G WCDMA Multicarrier
Test Case 3
2169 MHz - 2171 MHz**

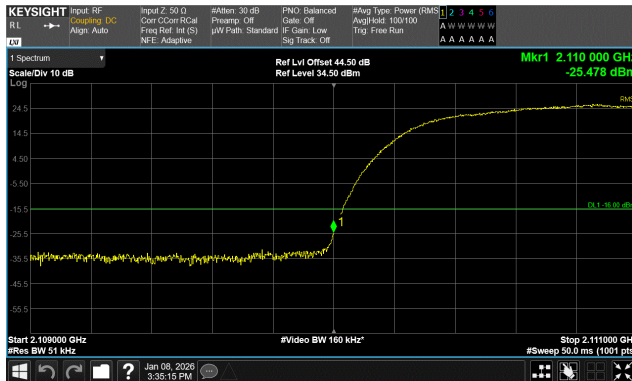


**3G WCDMA Multicarrier
Test Case 3
2171 MHz - 2172 MHz**

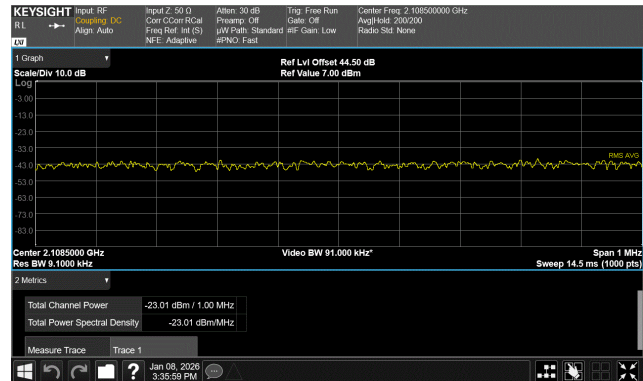


**3G WCDMA Multicarrier
Test Case 3
2172 MHz - 2182 MHz**

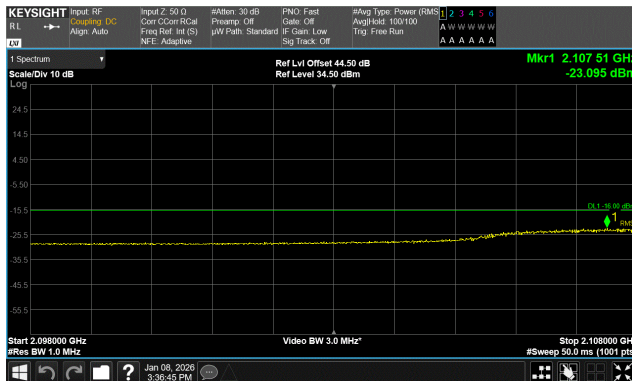
BAND EDGE COMPLIANCE - MULTICARRIER



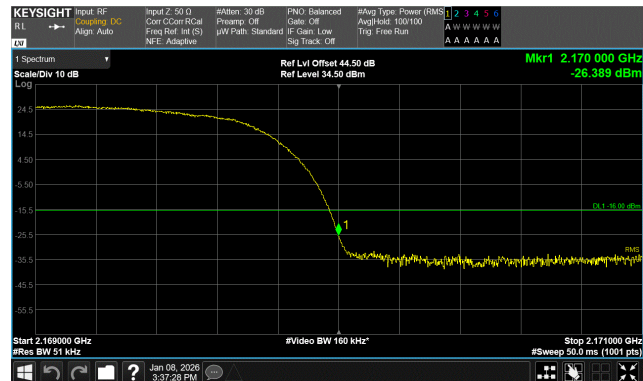
**3G WCDMA Multicarrier
Test Case 4
2109 MHz - 2111 MHz**



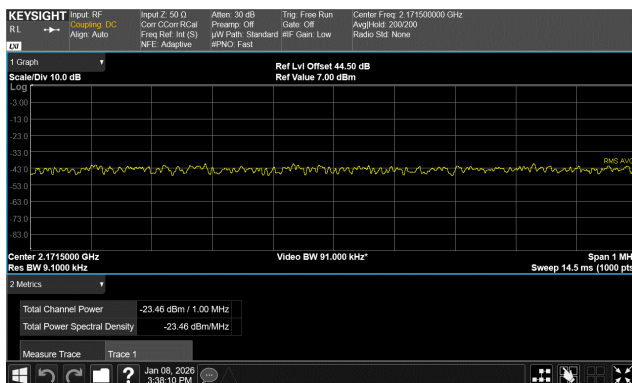
**3G WCDMA Multicarrier
Test Case 4
2108 MHz - 2109 MHz**



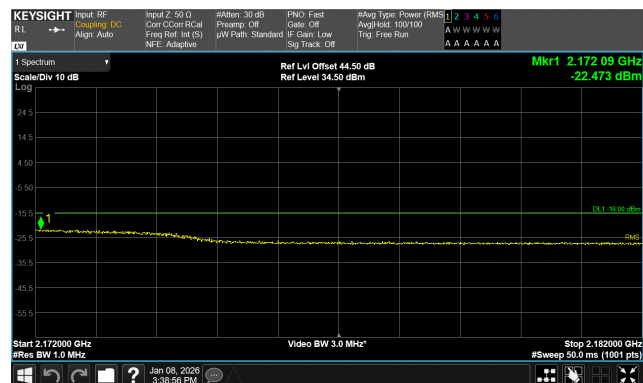
**3G WCDMA Multicarrier
Test Case 4
2098 MHz - 2108 MHz**



**3G WCDMA Multicarrier
Test Case 4
2169 MHz - 2171 MHz**

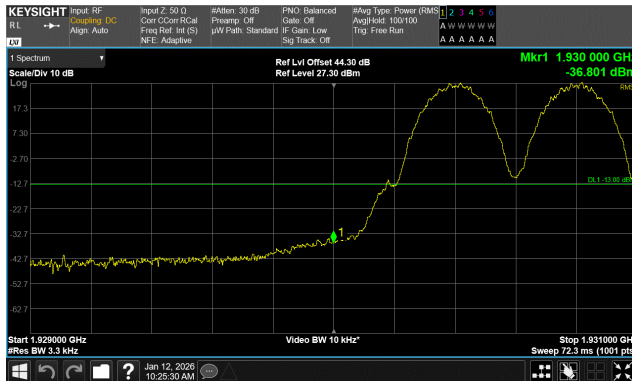


**3G WCDMA Multicarrier
Test Case 4
2171 MHz - 2172 MHz**

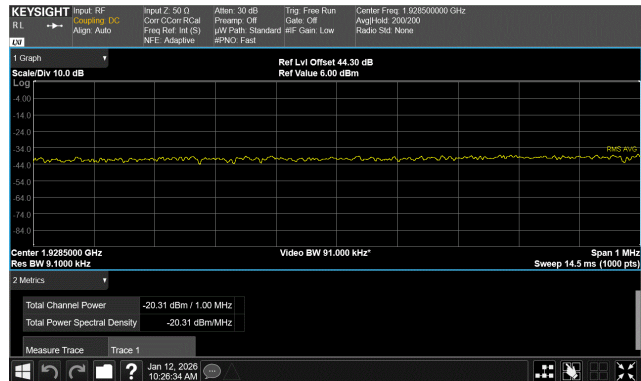


**3G WCDMA Multicarrier
Test Case 4
2172 MHz - 2182 MHz**

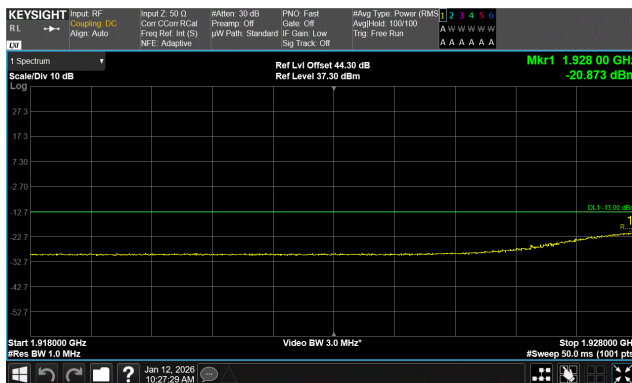
BAND EDGE COMPLIANCE - MULTICARRIER



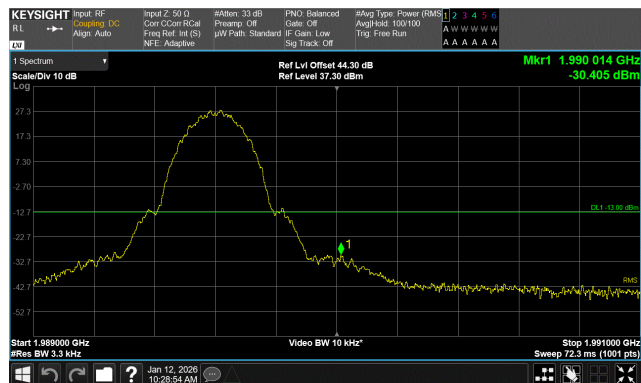
2G GSM/EDGE Multicarrier
Test Case 1
GMSK Modulation
1929 MHz - 1931 MHz



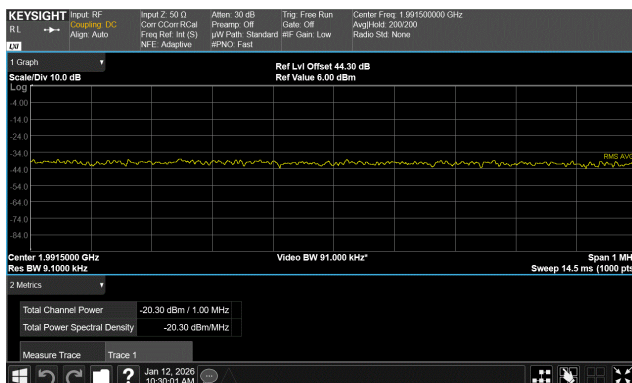
2G GSM/EDGE Multicarrier
Test Case 1
GMSK Modulation
1928 MHz - 1929 MHz



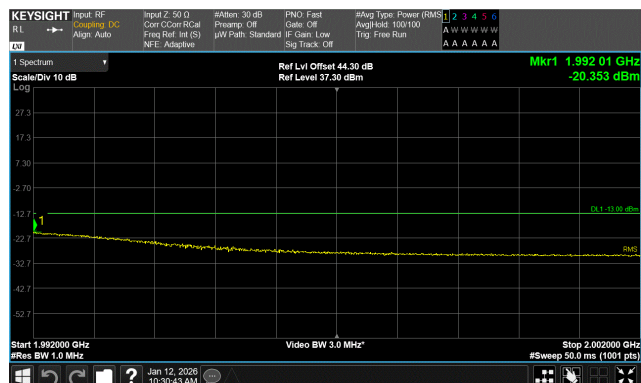
2G GSM/EDGE Multicarrier
Test Case 1
GMSK Modulation
1918 MHz - 1928 MHz



2G GSM/EDGE Multicarrier
Test Case 1
GMSK Modulation
1989 MHz - 1991 MHz

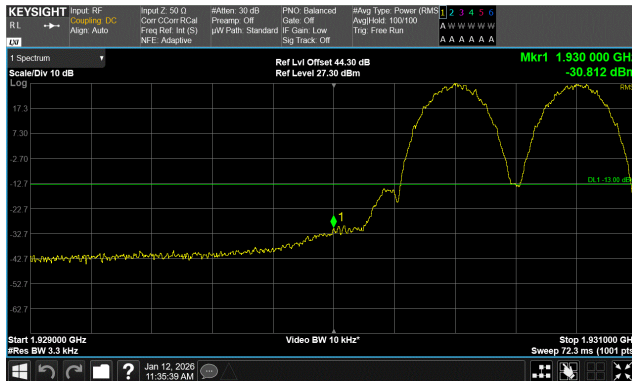


2G GSM/EDGE Multicarrier
Test Case 1
GMSK Modulation
1991 MHz - 1992 MHz

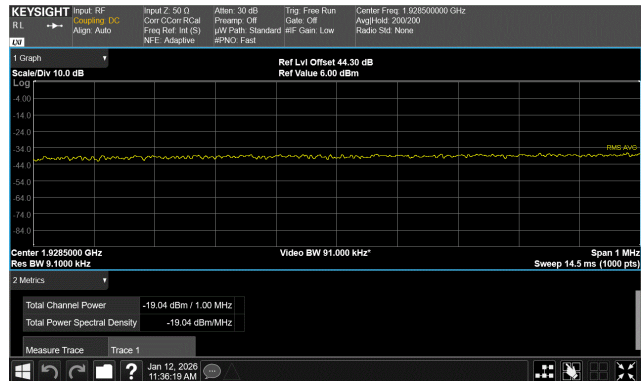


2G GSM/EDGE Multicarrier
Test Case 1
GMSK Modulation
1992 MHz - 2002 MHz

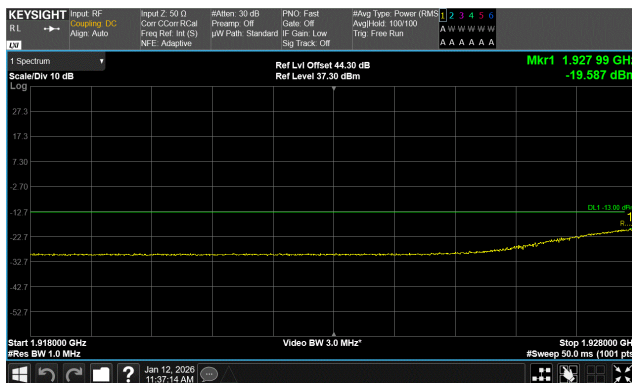
BAND EDGE COMPLIANCE - MULTICARRIER



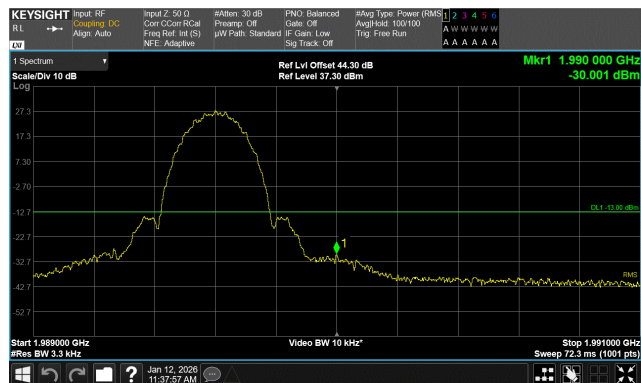
**2G GSM/EDGE Multicarrier
Test Case 1
8PSK Modulation
1929 MHz - 1931 MHz**



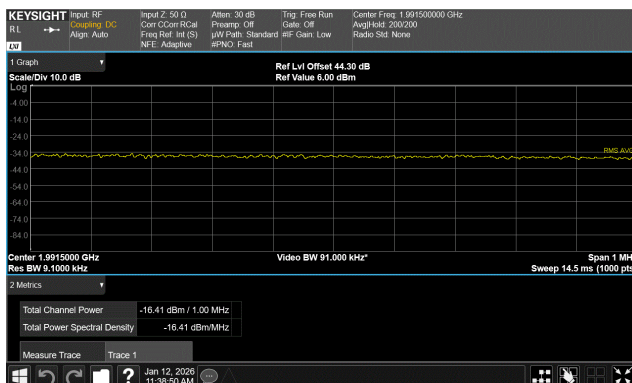
**2G GSM/EDGE Multicarrier
Test Case 1
8PSK Modulation
1928 MHz - 1929 MHz**



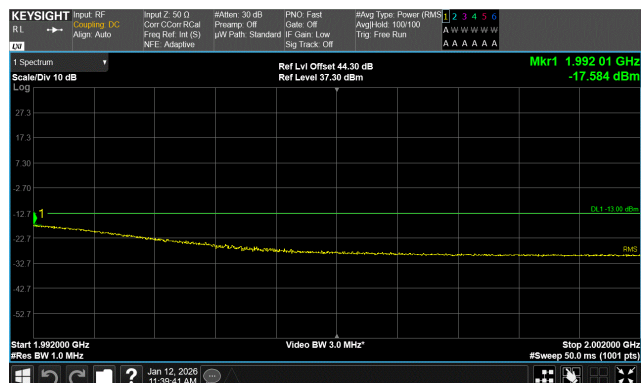
**2G GSM/EDGE Multicarrier
Test Case 1
8PSK Modulation
1918 MHz - 1928 MHz**



**2G GSM/EDGE Multicarrier
Test Case 1
8PSK Modulation
1989 MHz - 1991 MHz**

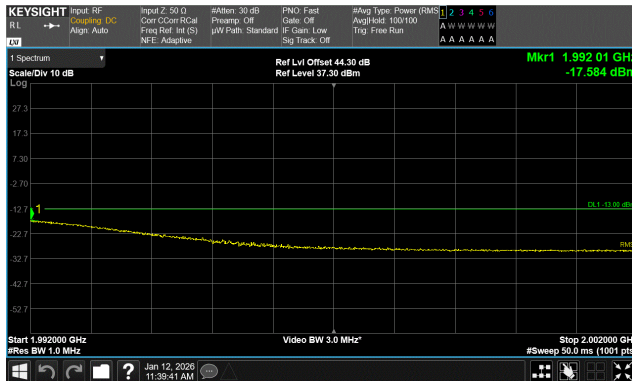


**2G GSM/EDGE Multicarrier
Test Case 1
8PSK Modulation
1991 MHz - 1992 MHz**

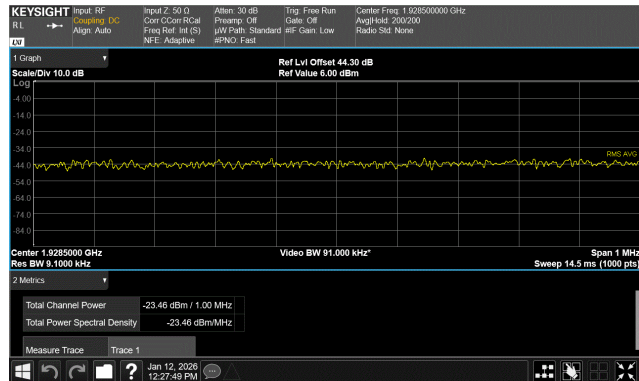


**2G GSM/EDGE Multicarrier
Test Case 1
8PSK Modulation
1992 MHz - 2002 MHz**

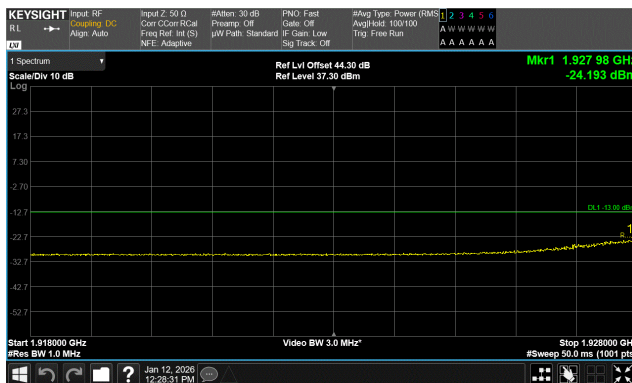
BAND EDGE COMPLIANCE - MULTICARRIER



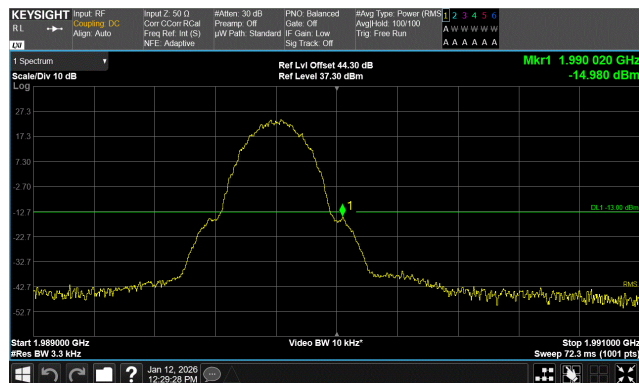
2G GSM/EDGE Multicarrier
Test Case 2
GMSK Modulation
1929 MHz - 1931 MHz



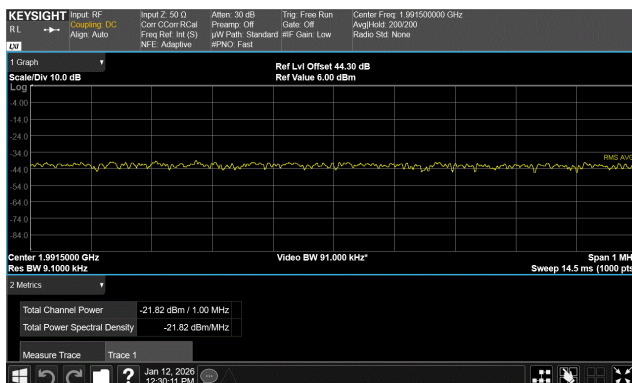
2G GSM/EDGE Multicarrier
Test Case 2
GMSK Modulation
1928 MHz - 1929 MHz



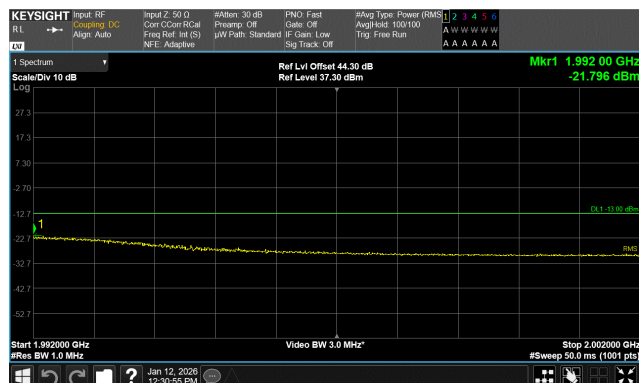
2G GSM/EDGE Multicarrier
Test Case 2
GMSK Modulation
1918 MHz - 1928 MHz



2G GSM/EDGE Multicarrier
Test Case 2
GMSK Modulation
1989 MHz - 1991 MHz

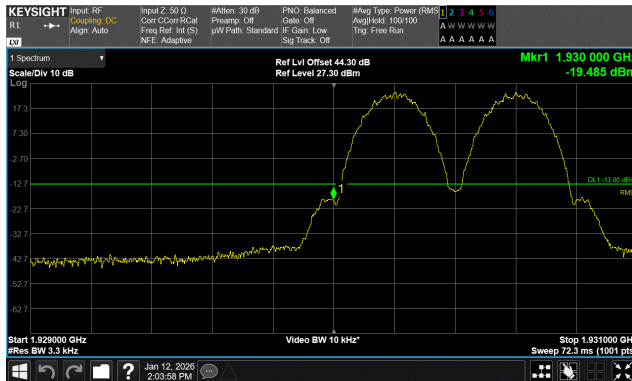


2G GSM/EDGE Multicarrier
Test Case 2
GMSK Modulation
1991 MHz - 1992 MHz

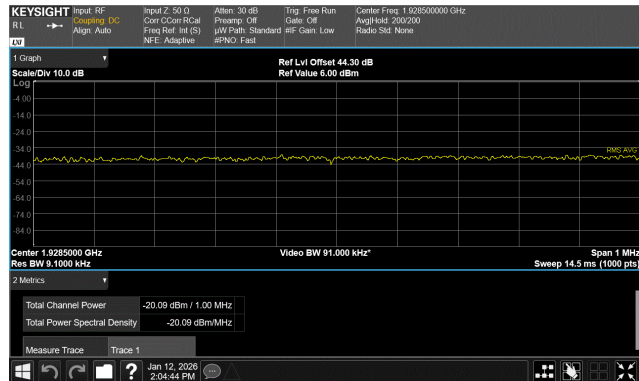


2G GSM/EDGE Multicarrier
Test Case 2
GMSK Modulation
1992 MHz - 2002 MHz

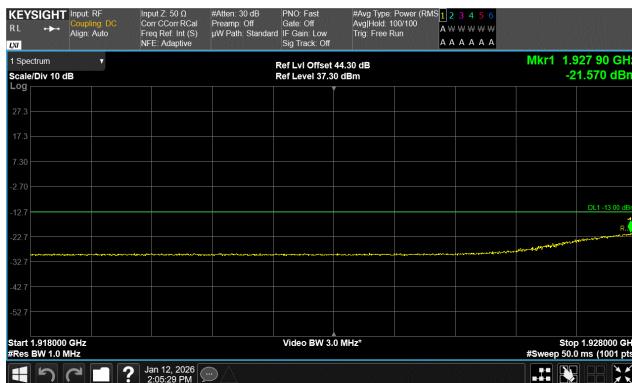
BAND EDGE COMPLIANCE - MULTICARRIER



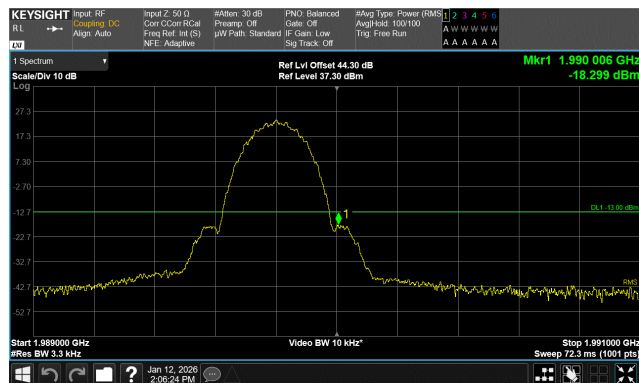
2G GSM/EDGE Multicarrier
Test Case 2
8PSK Modulation
1929 MHz - 1931 MHz



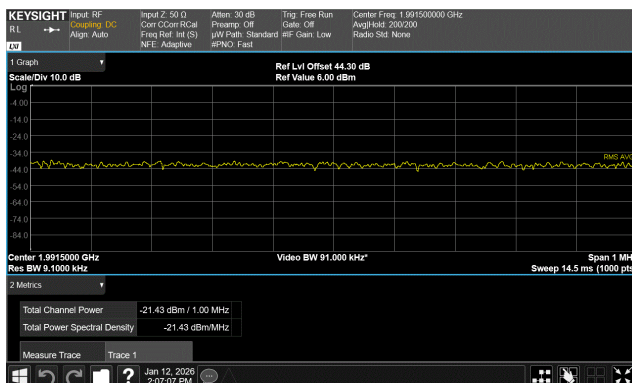
2G GSM/EDGE Multicarrier
Test Case 2
8PSK Modulation
1928 MHz - 1929 MHz



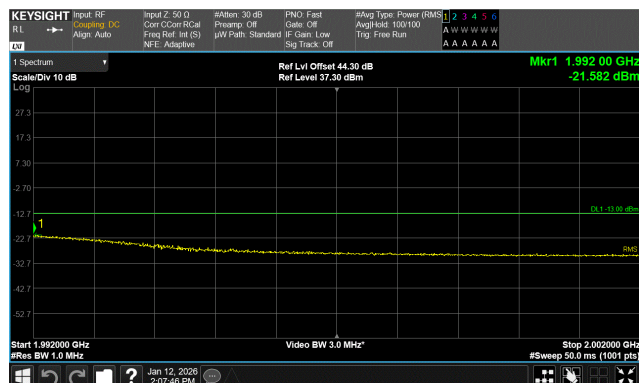
2G GSM/EDGE Multicarrier
Test Case 2
8PSK Modulation
1918 MHz - 1928 MHz



2G GSM/EDGE Multicarrier
Test Case 2
8PSK Modulation
1989 MHz - 1991 MHz

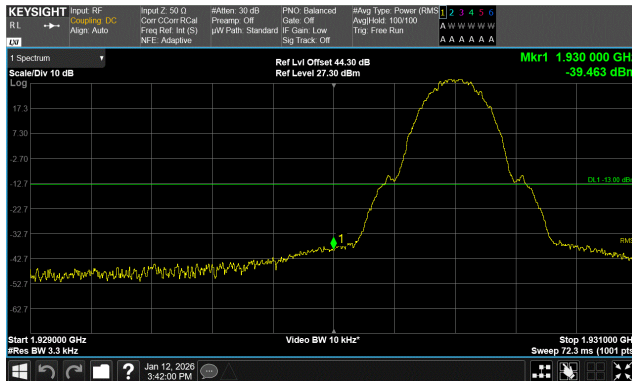


2G GSM/EDGE Multicarrier
Test Case 2
8PSK Modulation
1991 MHz - 1992 MHz

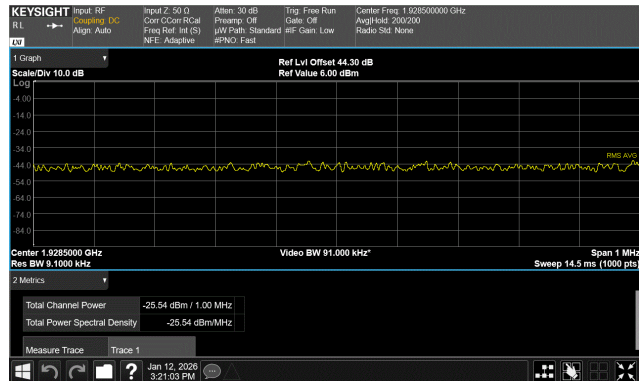


2G GSM/EDGE Multicarrier
Test Case 2
8PSK Modulation
1992 MHz - 2002 MHz

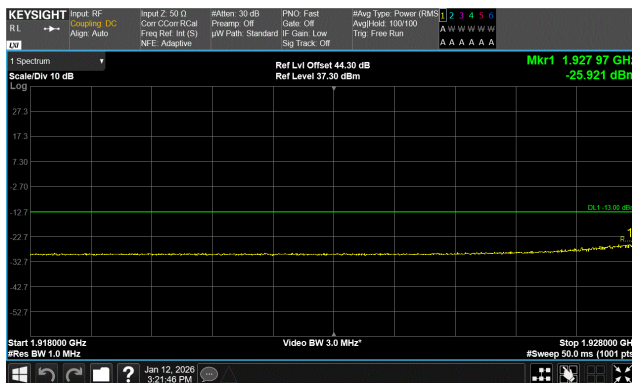
BAND EDGE COMPLIANCE - MULTICARRIER



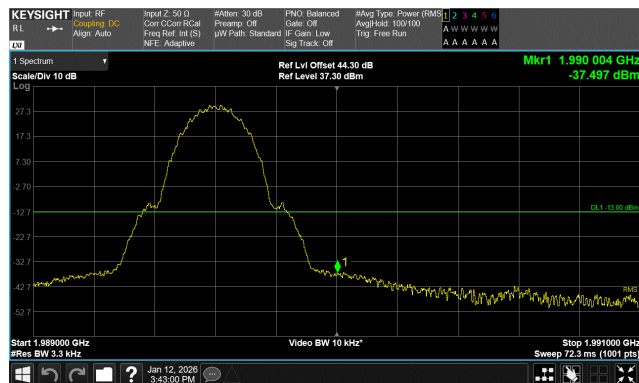
2G GSM/EDGE Multicarrier
Test Case 3
GMSK Modulation
1929 MHz - 1931 MHz



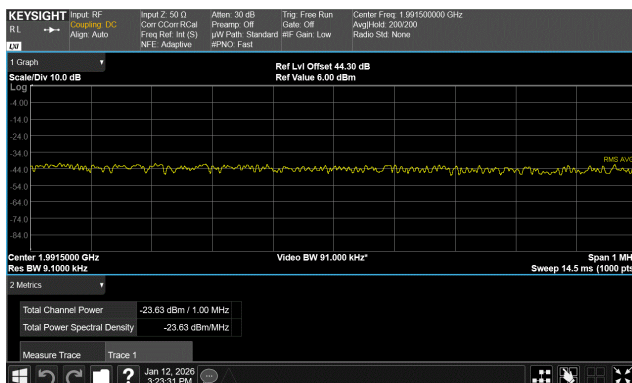
2G GSM/EDGE Multicarrier
Test Case 3
GMSK Modulation
1928 MHz - 1929 MHz



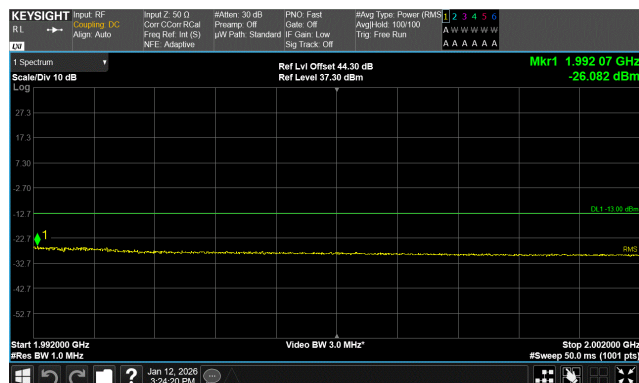
2G GSM/EDGE Multicarrier
Test Case 3
GMSK Modulation
1918 MHz - 1928 MHz



2G GSM/EDGE Multicarrier
Test Case 3
GMSK Modulation
1989 MHz - 1991 MHz

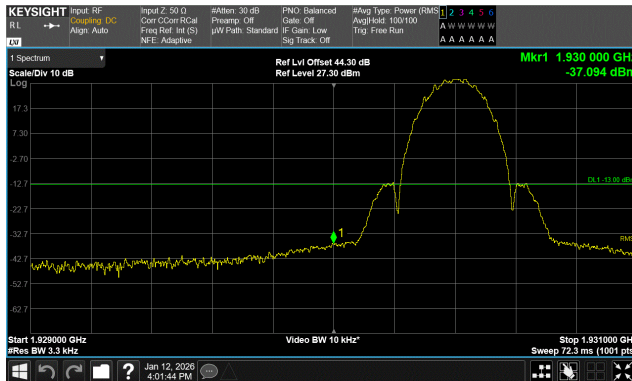


2G GSM/EDGE Multicarrier
Test Case 3
GMSK Modulation
1991 MHz - 1992 MHz

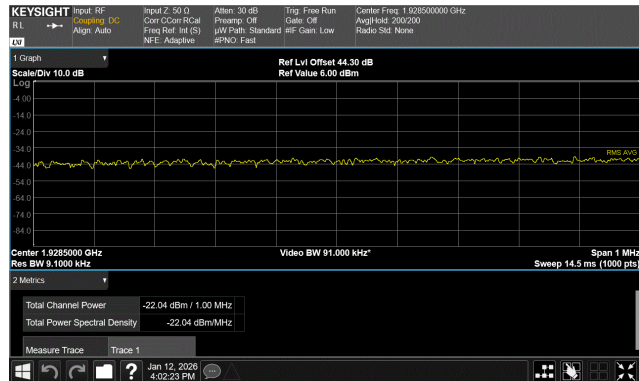


2G GSM/EDGE Multicarrier
Test Case 3
GMSK Modulation
1992 MHz - 2002 MHz

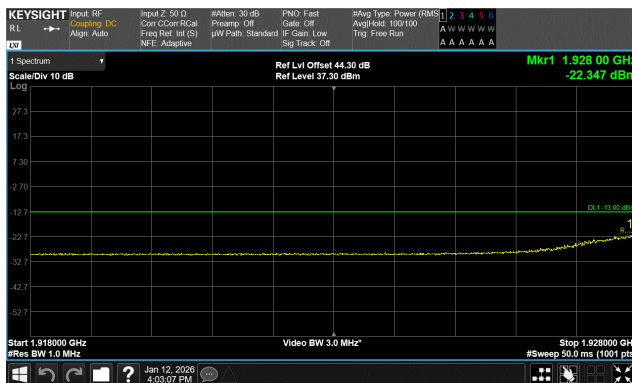
BAND EDGE COMPLIANCE - MULTICARRIER



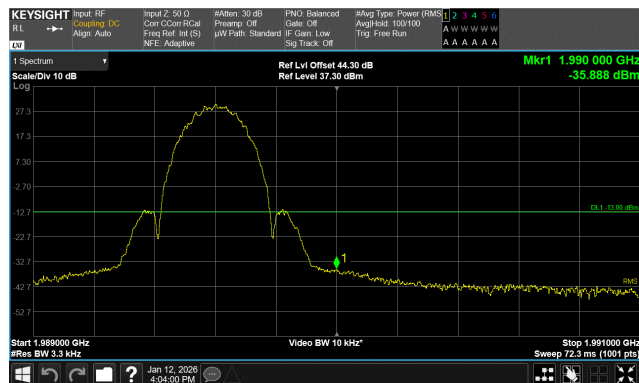
2G GSM/EDGE Multicarrier
Test Case 3
8PSK Modulation
1929 MHz - 1931 MHz



2G GSM/EDGE Multicarrier
Test Case 3
8PSK Modulation
1928 MHz - 1929 MHz



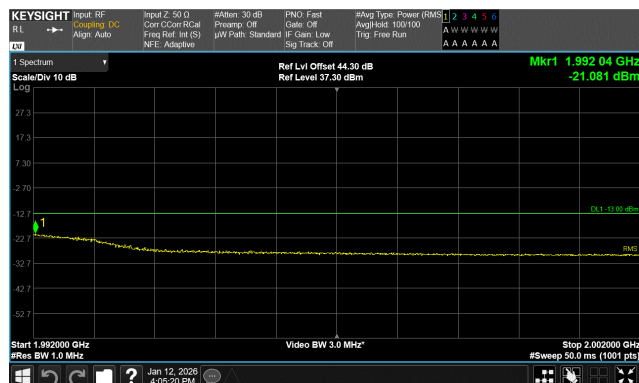
2G GSM/EDGE Multicarrier
Test Case 3
8PSK Modulation
1918 MHz - 1928 MHz



2G GSM/EDGE Multicarrier
Test Case 3
8PSK Modulation
1989 MHz - 1991 MHz

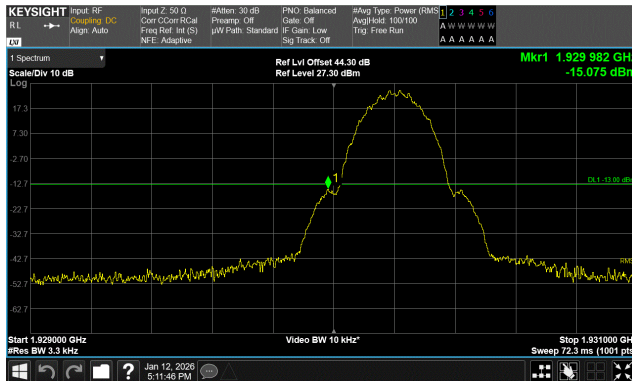


2G GSM/EDGE Multicarrier
Test Case 3
8PSK Modulation
1991 MHz - 1992 MHz

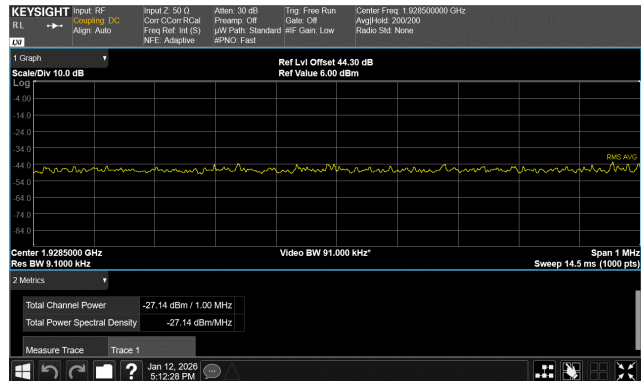


2G GSM/EDGE Multicarrier
Test Case 3
8PSK Modulation
1992 MHz - 2002 MHz

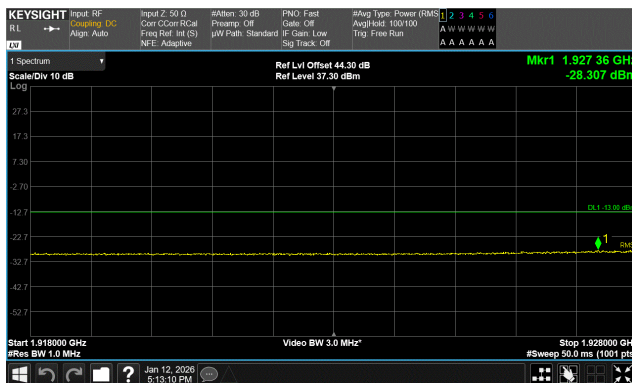
BAND EDGE COMPLIANCE - MULTICARRIER



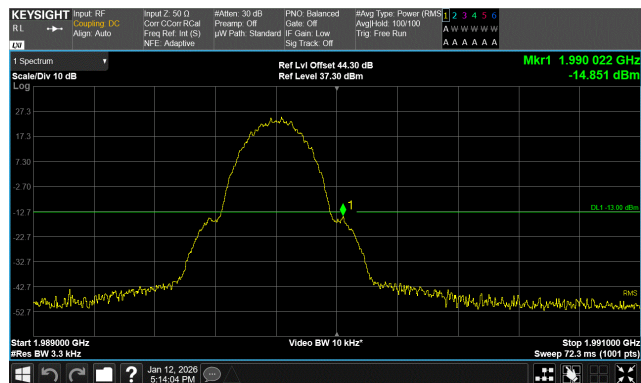
2G GSM/EDGE Multicarrier
Test Case 4
GMSK Modulation
1929 MHz - 1931 MHz



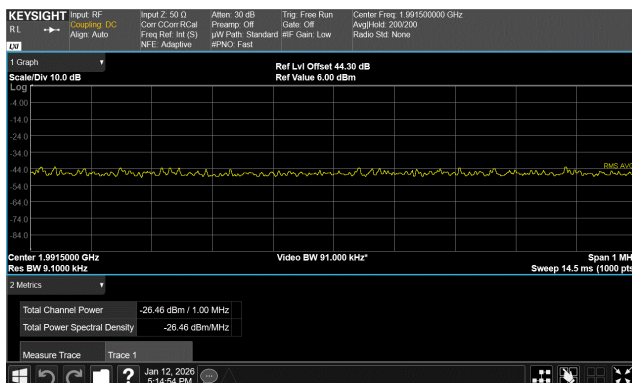
2G GSM/EDGE Multicarrier
Test Case 4
GMSK Modulation
1928 MHz - 1929 MHz



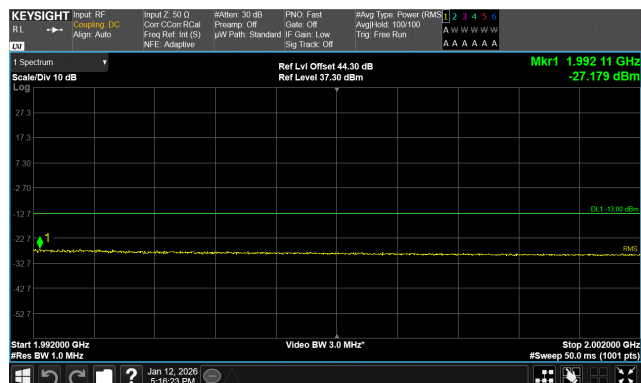
2G GSM/EDGE Multicarrier
Test Case 4
GMSK Modulation
1918 MHz - 1928 MHz



2G GSM/EDGE Multicarrier
Test Case 4
GMSK Modulation
1989 MHz - 1991 MHz

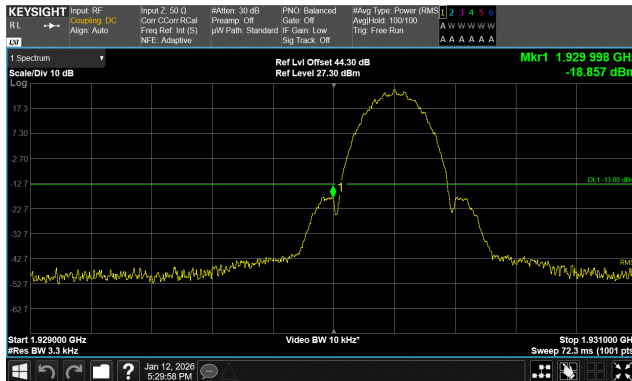


2G GSM/EDGE Multicarrier
Test Case 4
GMSK Modulation
1991 MHz - 1992 MHz

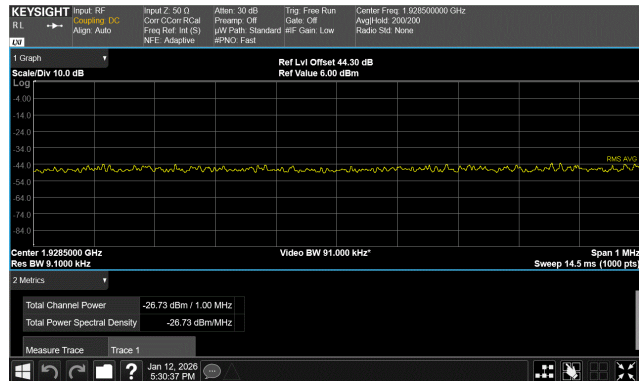


2G GSM/EDGE Multicarrier
Test Case 4
GMSK Modulation
1992 MHz - 2002 MHz

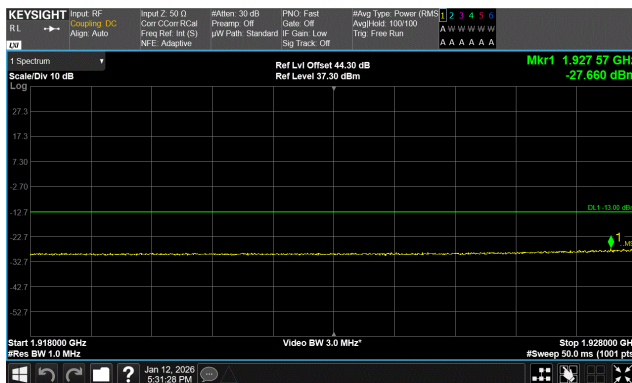
BAND EDGE COMPLIANCE - MULTICARRIER



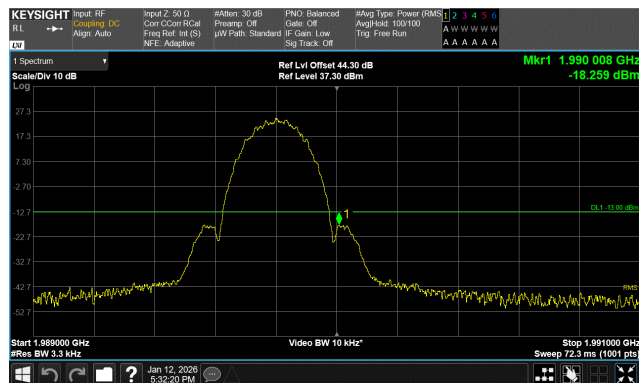
2G GSM/EDGE Multicarrier
Test Case 4
8PSK Modulation
1929 MHz - 1931 MHz



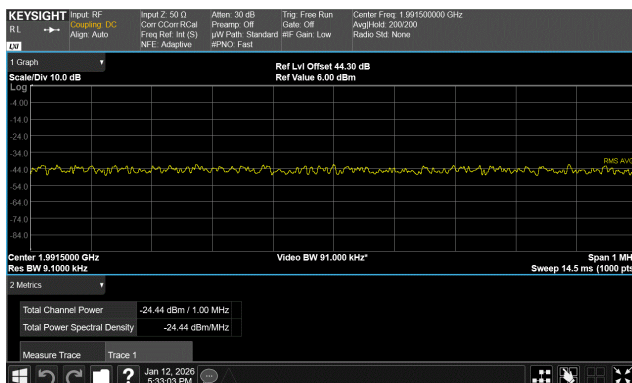
2G GSM/EDGE Multicarrier
Test Case 4
8PSK Modulation
1928 MHz - 1929 MHz



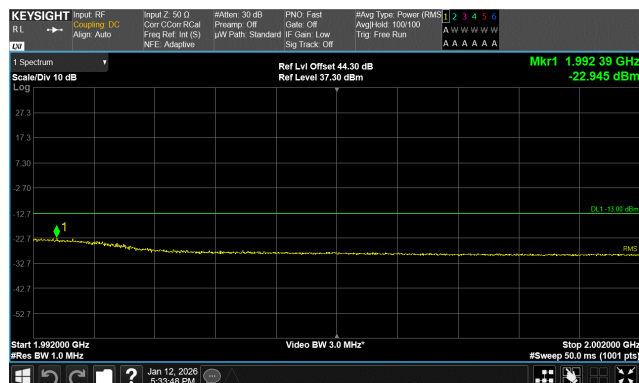
2G GSM/EDGE Multicarrier
Test Case 4
8PSK Modulation
1918 MHz - 1928 MHz



2G GSM/EDGE Multicarrier
Test Case 4
8PSK Modulation
1989 MHz - 1991 MHz



2G GSM/EDGE Multicarrier
Test Case 4
8PSK Modulation
1991 MHz - 1992 MHz



2G GSM/EDGE Multicarrier
Test Case 4
8PSK Modulation
1992 MHz - 2002 MHz

SPURIOUS CONDUCTED EMISSIONS - WCDMA



TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

RF conducted emissions testing was performed on only one port. The AHFI antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in the "Output Power - All Ports" report section of this report). Antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i, and 6.4.

The measurement methods are detailed in KDB 971168 D01v03 section 6 and section 5.7 ANSI C63.26-2015.

Per FCC 2.1057(a)(1), the upper level of measurement is the 10th harmonic of the highest fundamental frequency.

The transmitter unwanted spurious emissions at the antenna port were measured at the RF port of the EUT through four different attenuation configurations to the spectrum analyzer. Spectrum analyzer plots utilizing a resolution bandwidth defined by ANSI C63.26 sections 5.7 were made from 9kHz up to the 10th harmonics of the higher fundamental frequency. As such, the upper level of the measurement is approximately 22GHz (2170*10).

Per section FCC 24.238(a) and FCC 27.53(h)(1) the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -16 dBm [-13 dBm -10 log (2)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 2 port MIMO transmitter.

The limit for the 9kHz to 150kHz frequency range was adjusted to -46dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 1MHz [i.e.: -46dBm = -16dBm -10log(1MHz/1kHz)]. The limit for the 150kHz to 20MHz frequency range was adjusted to -36dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 1MHz [i.e.: -36dBm = -16dBm -10log(1MHz/10kHz)]. The required limit of -16dBm with a RBW of > 1MHz was used for all other frequency ranges. (See ANSI C63.26-2015 paragraph 5.7.2a for details on the Limit/RBW scaling method).

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight Technologies	N9030B	AGA	2025-06-09	2026-06-09
Block - DC	Centric RF	C0140	ANJ	NCR	NCR
Generator - Signal	Agilent	N5173B	TIW	2023-08-07	2026-08-07

Note: The RF Test Setup/ Network (RF cables/Attenuators/filter/etc.) is defined in the configurations section for each test. The RF Test Setup/Network is calibrated using the signal generator and spectrum analyzer prior to test. The RF insertion loss of the RF Test Setup/Network is accounted for by the spectrum analyzer's reference level offset during the RF conducted testing.

SPURIOUS CONDUCTED EMISSIONS - WCDMA



EUT:	Airscale Base Transceiver Station Radio Unit Model AHFI	Work Order:	NOKI0090
Serial Number:	AH251400352	Date:	2026-01-08
Customer:	Nokia Solutions and Networks	Temperature:	28.8°C
Attendees:	John Rattanaovong, David Le	Relative Humidity:	17.9%
Customer Project:	None	Bar. Pressure (PMSL):	1021 mbar
Tested By:	Jarrod Brenden	Job Site:	PT14
Power:	54VDC	Configuration:	NOKI0090-1 NOKI0090-2 NOKI0090-3 NOKI0090-4

COMMENTS

All losses in the measurement path were accounted for in the reference level offset; attenuators, filters, cables, and DC blocks. Carriers were enabled at maximum power levels.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

Tested By

TEST RESULTS

	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
3G WCDMA					
QPSK Modulation					
Middle Channel, 1960.0 MHz & 2140.0 MHz	9 kHz - 150 kHz	0.01	-76.99	-46	Pass
	150 kHz - 30 MHz	0.22	-66.35	-36	Pass
	30 MHz - 3.5 GHz	3153.87	-20.23	-16	Pass
	1.9 GHz - 2.2 GHz	2182.9	-22.31	-16	Pass
	3.5 GHz - 13 GHz	11424.9	-45.95	-16	Pass
	13 GHz - 22 GHz	21397	-33.02	-16	Pass
16QAM Modulation					
Middle Channel, 1960.0 MHz & 2140.0 MHz	9 kHz - 150 kHz	0.01	-77.18	-46	Pass
	150 kHz - 30 MHz	0.15	-66.15	-36	Pass
	30 MHz - 3.5 GHz	3184.66	-20.69	-16	Pass
	1.9 GHz - 2.2 GHz	2194.45	-21.96	-16	Pass
	3.5 GHz - 13 GHz	11698.03	-45.25	-16	Pass
	13 GHz - 22 GHz	18712.75	-34.95	-16	Pass
64QAM Modulation					
Middle Channel, 1960.0 MHz & 2140.0 MHz	9 kHz - 150 kHz	0.01	-74.96	-46	Pass
	150 kHz - 30 MHz	0.19	-65.65	-36	Pass
	30 MHz - 3.5 GHz	3101.82	-18.55	-16	Pass
	1.9 GHz - 2.2 GHz	2163.29	-21.11	-16	Pass
	3.5 GHz - 13 GHz	11426.8	-45.22	-16	Pass
	13 GHz - 22 GHz	20710.75	-33.79	-16	Pass