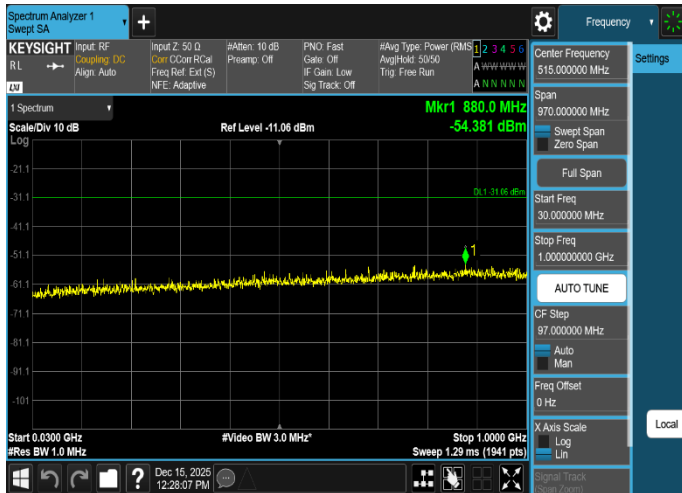




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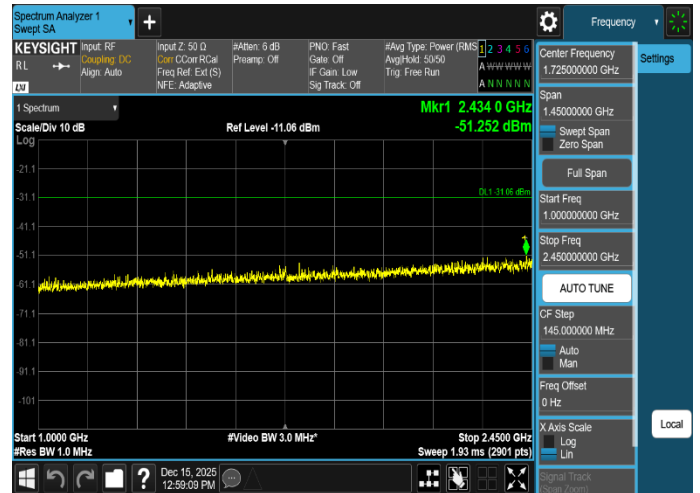
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REPORT No.:
CTK-2026-00125
Page (80) / (102) pages



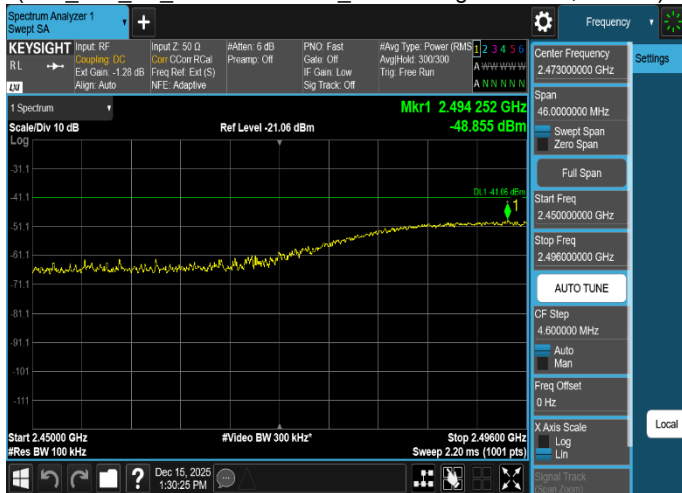
Plot 8-62. Conducted Spurious Emission Plot
30 MHz to 1 GHz

(LTE_B41_3C_20M+20M+20M_QPSK - High Channel, Port 10)



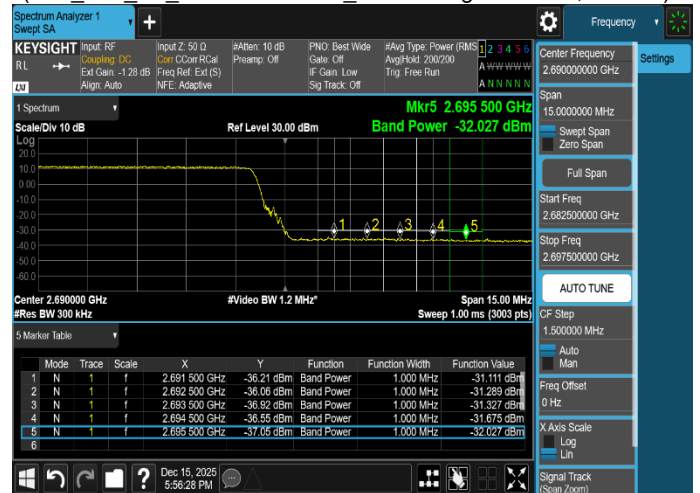
Plot 8-63. Conducted Spurious Emission Plot
1 GHz to 2.450 GHz

(LTE_B41_3C_20M+20M+20M_QPSK - High Channel, Port 10)



Plot 8-64. Conducted Spurious Emission Plot
2.450 MHz to 2.496 GHz

(LTE_B41_3C_20M+20M+20M_QPSK - High Channel, Port 10)



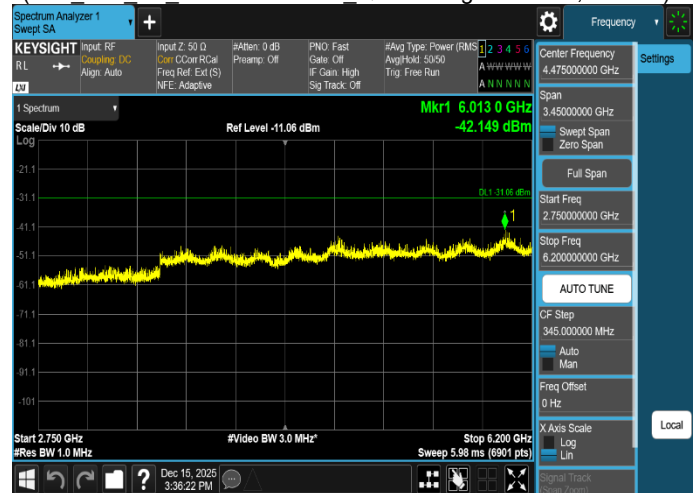
Plot 8-65. Conducted Spurious Emission Plot
2.691 GHz to 2.696 GHz

(LTE_B41_3C_20M+20M+20M_QPSK - High Channel, Port 10)



Plot 8-66. Conducted Spurious Emission Plot
2.696 GHz to 2.750 GHz

(LTE_B41_3C_20M+20M+20M_QPSK - High Channel, Port 10)



Plot 8-67. Conducted Spurious Emission Plot
2.750 GHz to 6.2 GHz

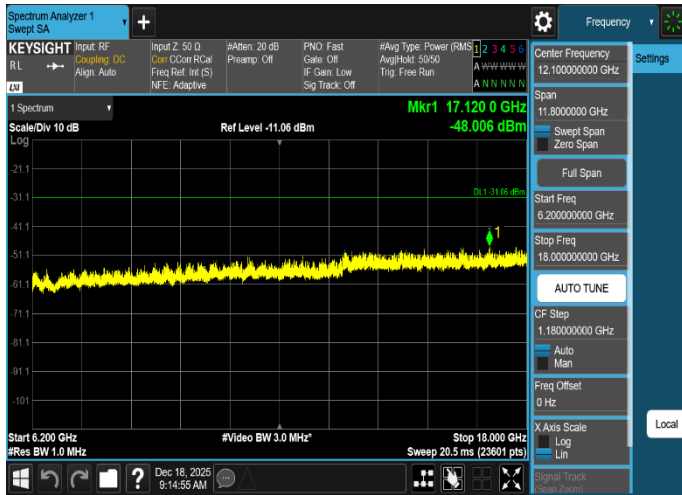
(LTE_B41_3C_20M+20M+20M_QPSK - High Channel, Port 10)



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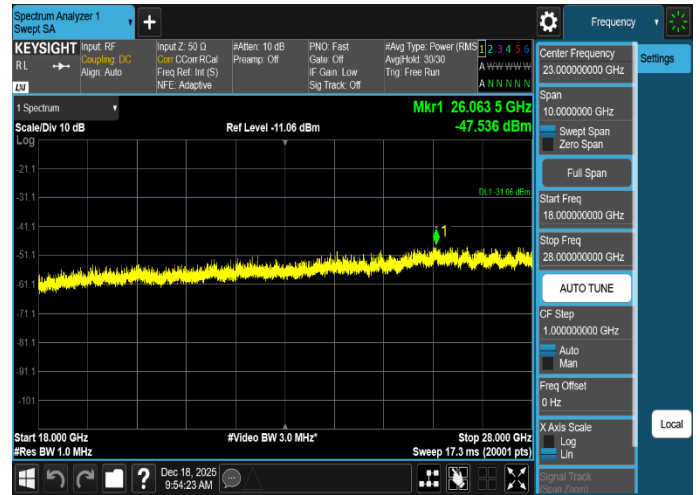
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REPORT No.:
CTK-2026-00125
Page (81) / (102) pages



Plot 8-68. Conducted Spurious Emission Plot
6.2 GHz to 18 GHz

(LTE_B41_3C_20M+20M+20M_QPSK - High Channel, Port 10)



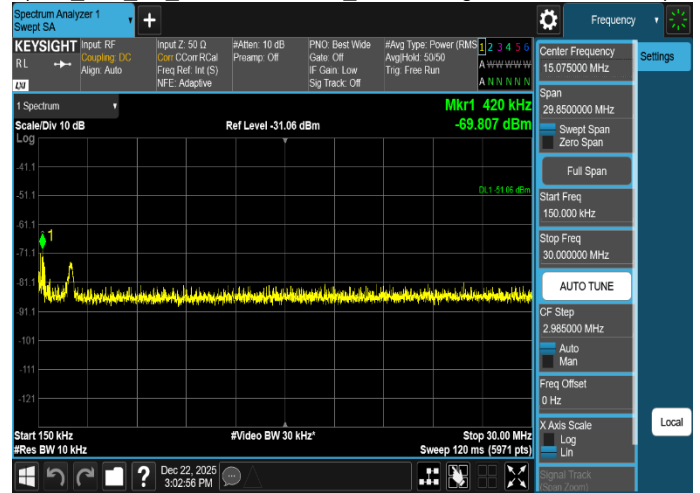
Plot 8-69. Conducted Spurious Emission Plot
18 GHz to 28 GHz

(LTE_B41_3C_20M+20M+20M_QPSK - High Channel, Port 10)



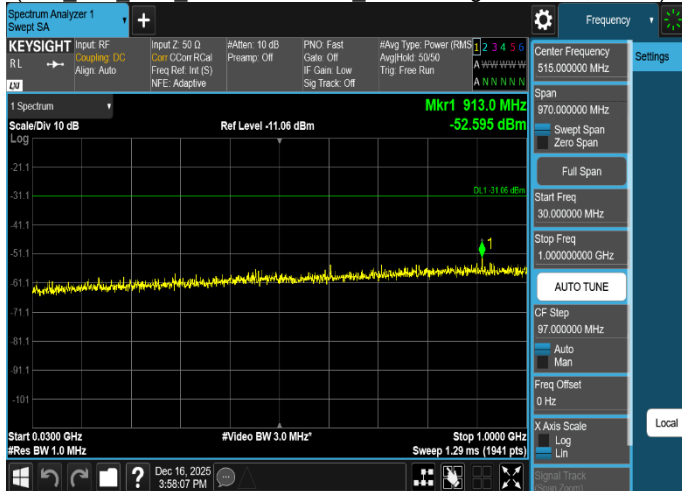
Plot 8-70. Conducted Spurious Emission Plot
9 kHz to 150 kHz

(LTE_B41_3NC_20M+20M+20M_QPSK - High Channel, Port 0)



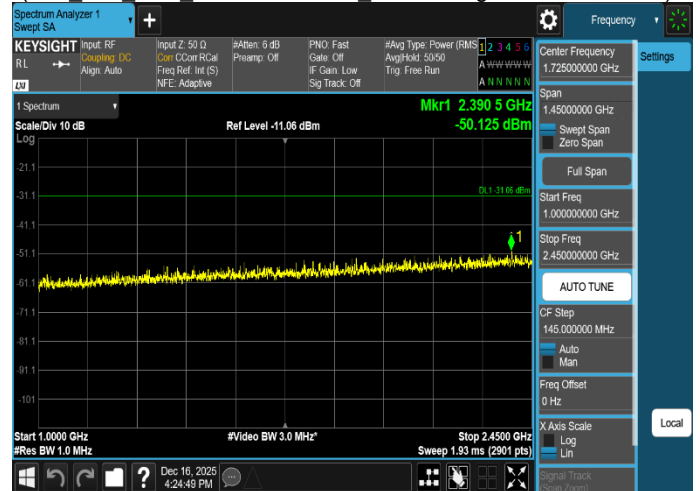
Plot 8-71. Conducted Spurious Emission Plot
150 kHz to 30 MHz

(LTE_B41_3NC_20M+20M+20M_QPSK - High Channel, Port 0)



Plot 8-72. Conducted Spurious Emission Plot
30 MHz to 1 GHz

(LTE_B41_3NC_20M+20M+20M_QPSK - High Channel, Port 0)



Plot 8-73. Conducted Spurious Emission Plot
1 GHz to 2.450 GHz

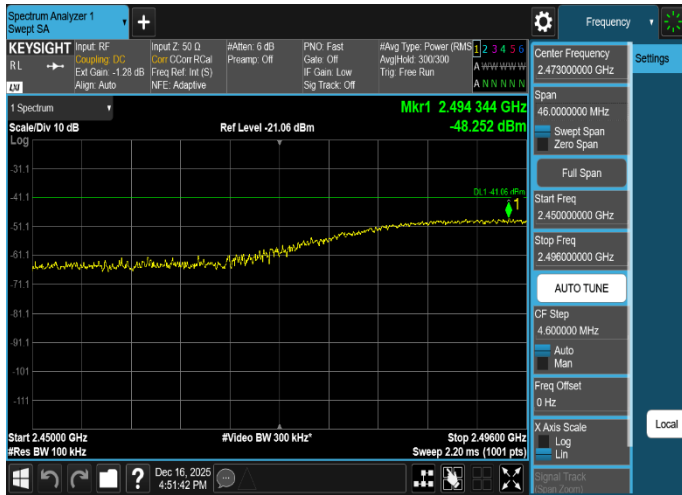
(LTE_B41_3NC_20M+20M+20M_QPSK - High Channel, Port 0)



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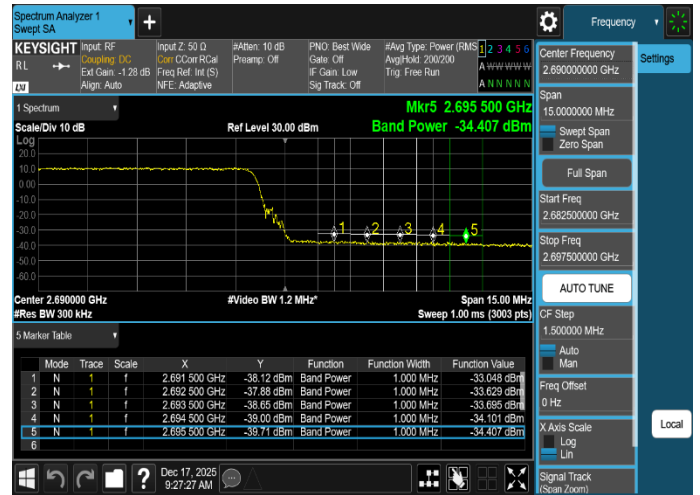
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REPORT No.:
CTK-2026-00125
Page (82) / (102) pages



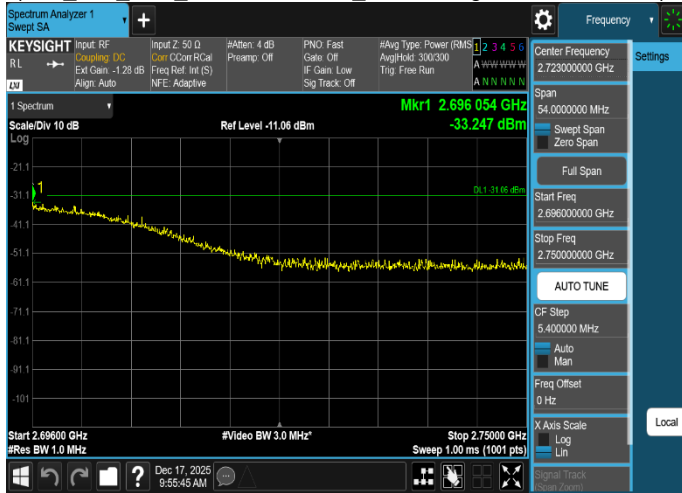
Plot 8-74. Conducted Spurious Emission Plot
2.450 MHz to 2.496 GHz

(LTE_B41_3NC_20M+20M+20M_QPSK - High Channel, Port 0)



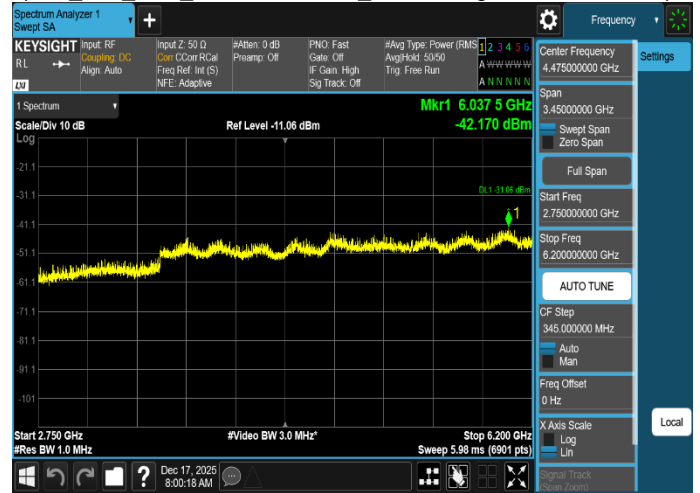
Plot 8-75. Conducted Spurious Emission Plot
2.691 GHz to 2.696 GHz

(LTE_B41_3NC_20M+20M+20M_QPSK - High Channel, Port 0)



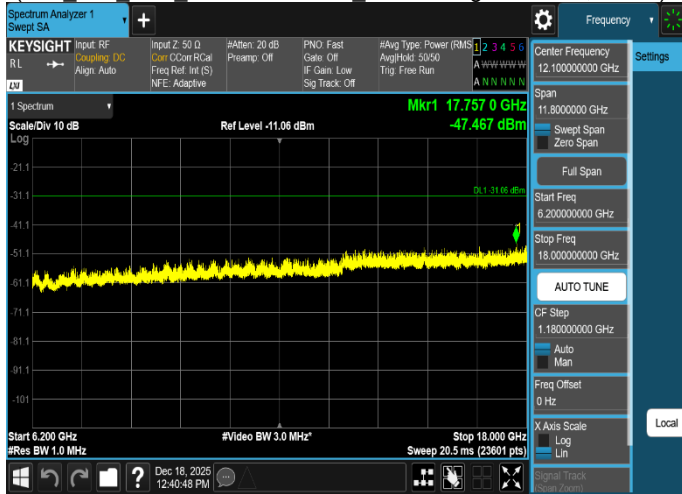
Plot 8-76. Conducted Spurious Emission Plot
2.696 GHz to 2.750 GHz

(LTE_B41_3NC_20M+20M+20M_QPSK - High Channel, Port 0)



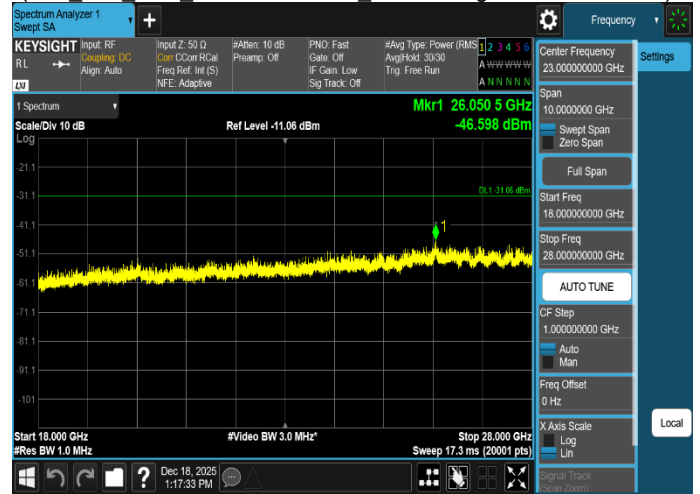
Plot 8-77. Conducted Spurious Emission Plot
2.750 GHz to 6.2 GHz

(LTE_B41_3NC_20M+20M+20M_QPSK - High Channel, Port 0)



Plot 8-78. Conducted Spurious Emission Plot
6.2 GHz to 18 GHz

(LTE_B41_3NC_20M+20M+20M_QPSK - High Channel, Port 0)



Plot 8-79. Conducted Spurious Emission Plot
18 GHz to 28 GHz

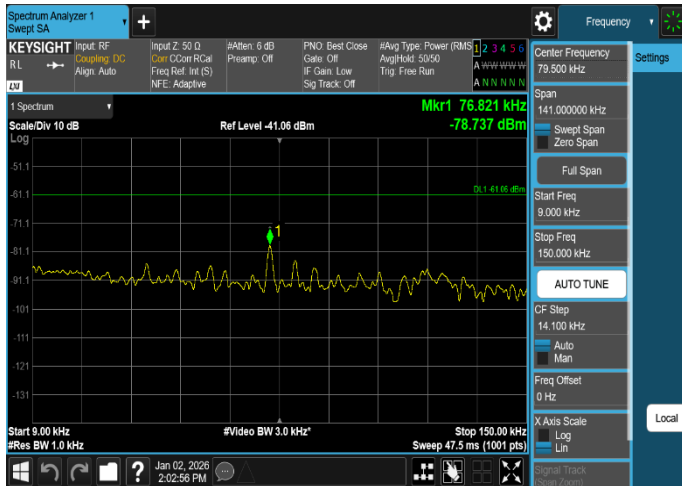
(LTE_B41_3NC_20M+20M+20M_QPSK - High Channel, Port 0)



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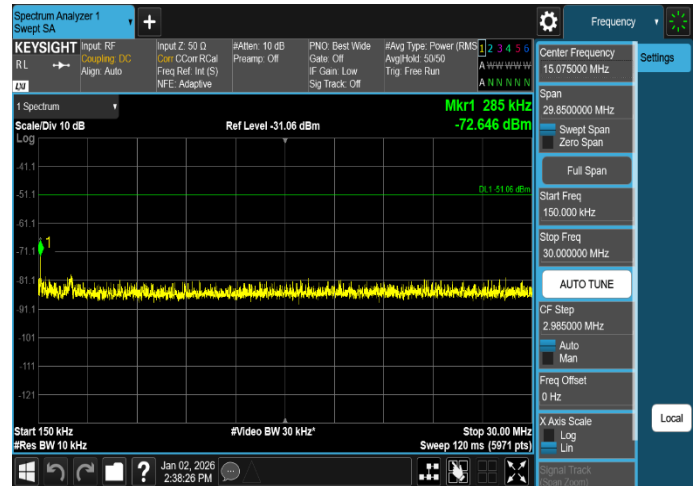
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CTK-2026-00125
Page (83) / (102) pages



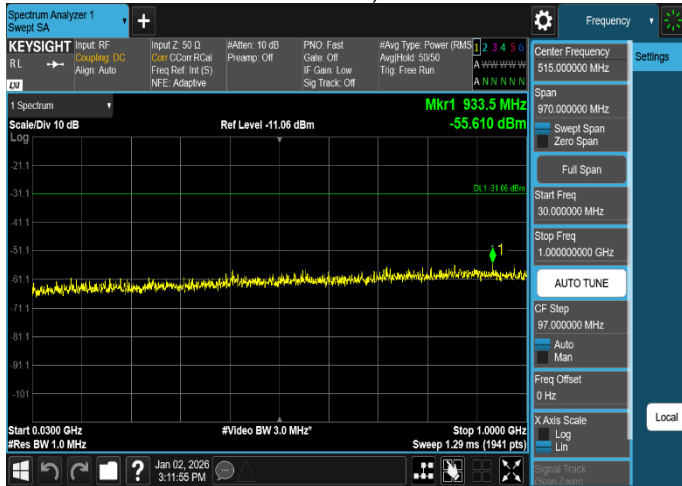
Plot 8-80. Conducted Spurious Emission Plot
9 kHz to 150 kHz

(MSR_B/n41_3C_NR_10M+LTE_20M+20M_QPSK - High Channel,
Port 46)



Plot 8-81. Conducted Spurious Emission Plot
150 kHz to 30 MHz

(MSR_B/n41_3C_NR_10M+LTE_20M+20M_QPSK - High Channel,
Port 46)



Plot 8-82. Conducted Spurious Emission Plot
30 MHz to 1 GHz

(MSR_B/n41_3C_NR_10M+LTE_20M+20M_QPSK - High Channel,
Port 46)



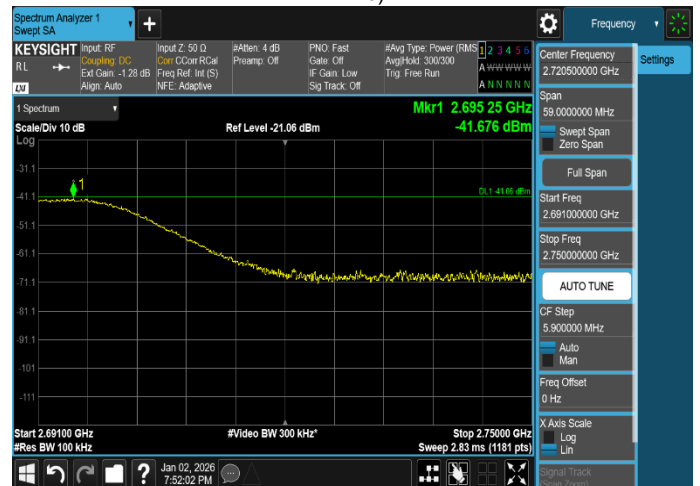
Plot 8-83. Conducted Spurious Emission Plot
1 GHz to 2.450 GHz

(MSR_B/n41_3C_NR_10M+LTE_20M+20M_QPSK - High Channel,
Port 46)



Plot 8-84. Conducted Spurious Emission Plot
2.450 MHz to 2.496 GHz

(MSR_B/n41_3C_NR_10M+LTE_20M+20M_QPSK - High Channel,
Port 46)



Plot 8-85. Conducted Spurious Emission Plot
2.691 GHz to 2.750 GHz

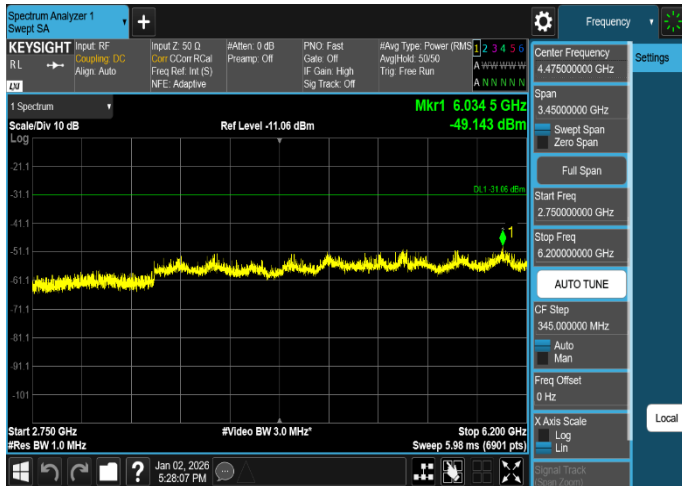
(MSR_B/n41_3C_NR_10M+LTE_20M+20M_QPSK - High Channel,
Port 46)



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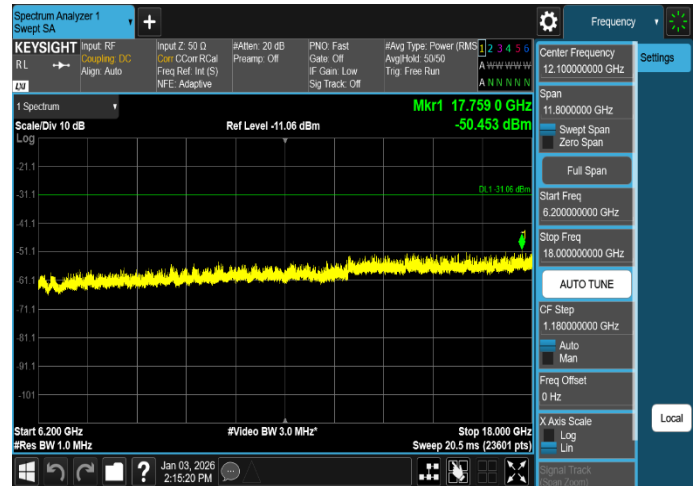
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CTK-2026-00125
Page (84) / (102) pages



Plot 8-86. Conducted Spurious Emission Plot
2.750 GHz to 6.2 GHz

(MSR_B/n41_3C_NR_10M+LTE_20M+20M_QPSK - High Channel,
Port 46)



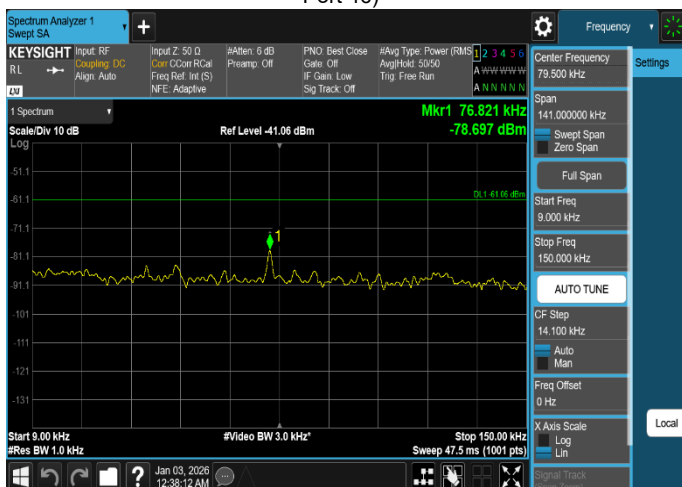
Plot 8-87. Conducted Spurious Emission Plot
6.2 GHz to 18 GHz

(MSR_B/n41_3C_NR_10M+LTE_20M+20M_QPSK - High Channel,
Port 46)



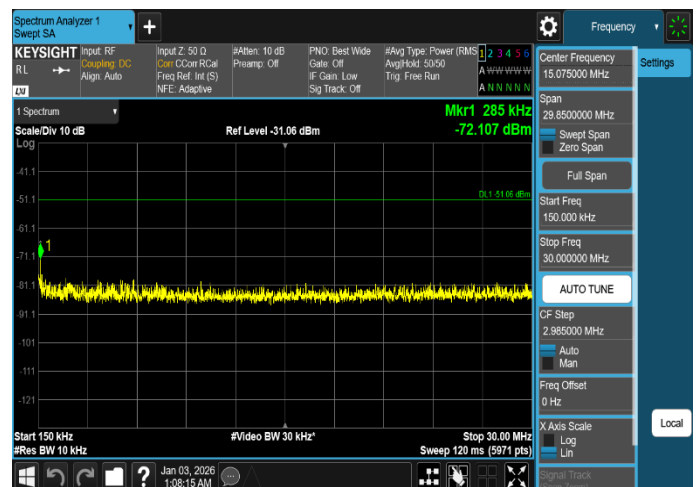
Plot 8-88. Conducted Spurious Emission Plot
18 GHz to 28 GHz

(MSR_B/n41_3C_NR_10M+LTE_20M+20M_QPSK - High Channel,
Port 46)



Plot 8-89. Conducted Spurious Emission Plot
9 kHz to 150 kHz

(MSR_B/n41_3NC_NR_10M+LTE_20M+20M_QPSK - High Channel,
Port 11)



Plot 8-90. Conducted Spurious Emission Plot
150 kHz to 30 MHz

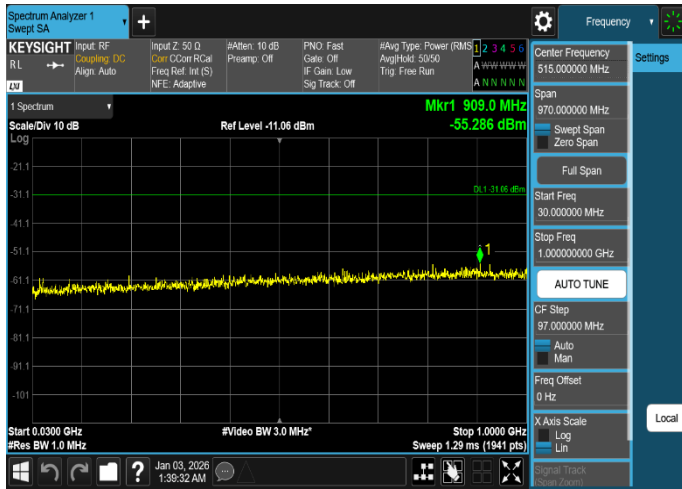
(MSR_B/n41_3NC_NR_10M+LTE_20M+20M_QPSK - High Channel,
Port 11)



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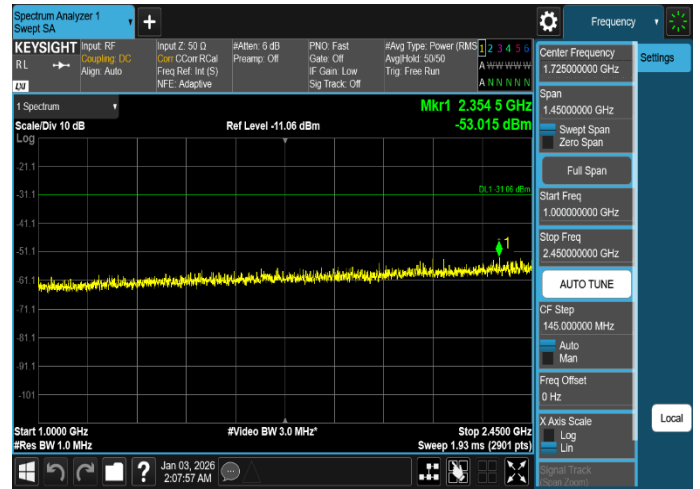
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REPORT No.:
CTK-2026-00125
Page (85) / (102) pages



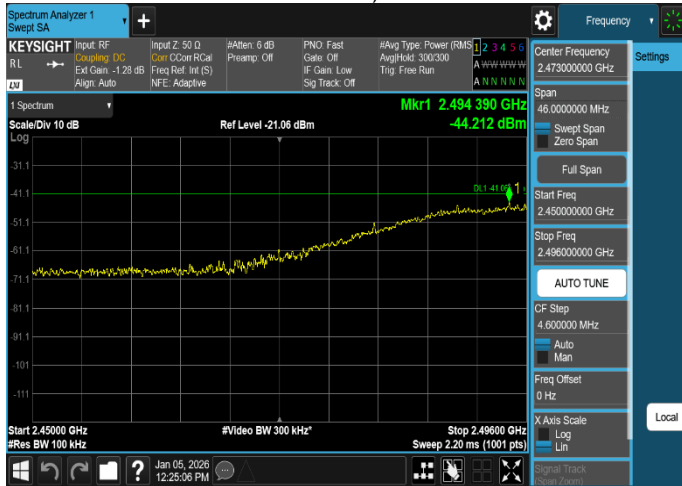
Plot 8-91. Conducted Spurious Emission Plot
30 MHz to 1 GHz

(MSR_B/n41_3NC_NR_10M+LTE_20M+20M_QPSK - High Channel,
Port 11)



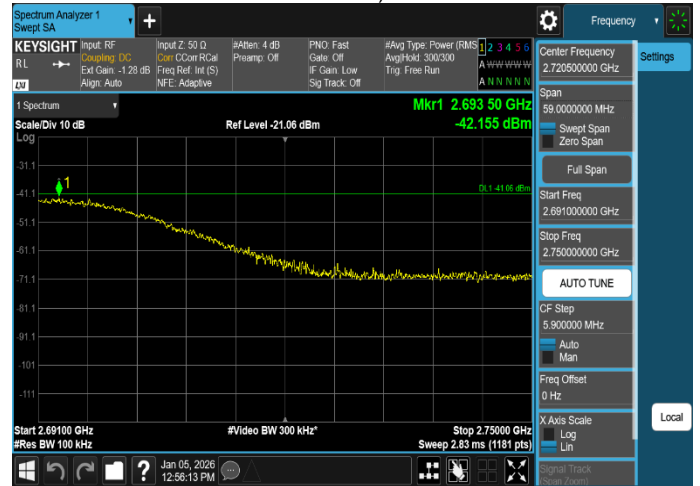
Plot 8-92. Conducted Spurious Emission Plot
1 GHz to 2.450 GHz

(MSR_B/n41_3NC_NR_10M+LTE_20M+20M_QPSK - High Channel,
Port 11)



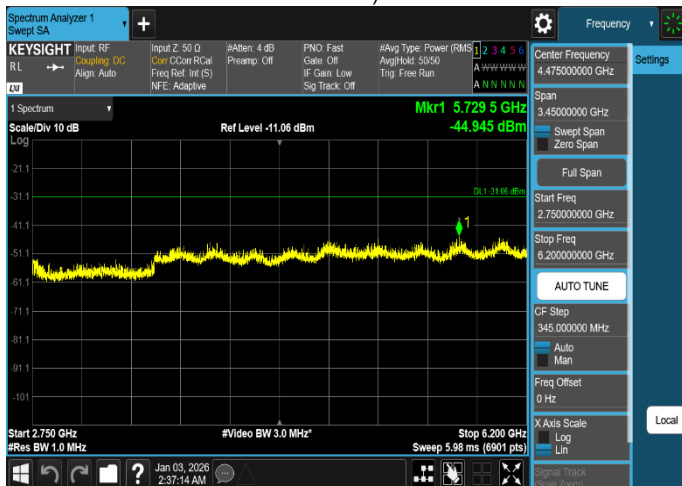
Plot 8-93. Conducted Spurious Emission Plot
2.450 MHz to 2.496 GHz

(MSR_B/n41_3NC_NR_10M+LTE_20M+20M_QPSK - High Channel,
Port 11)



Plot 8-94. Conducted Spurious Emission Plot
2.691 GHz to 2.750 GHz

(MSR_B/n41_3NC_NR_10M+LTE_20M+20M_QPSK - High Channel,
Port 11)



Plot 8-95. Conducted Spurious Emission Plot
2.750 GHz to 6.2 GHz

(MSR_B/n41_3NC_NR_10M+LTE_20M+20M_QPSK - High Channel,
Port 11)



Plot 8-96. Conducted Spurious Emission Plot
6.2 GHz to 18 GHz

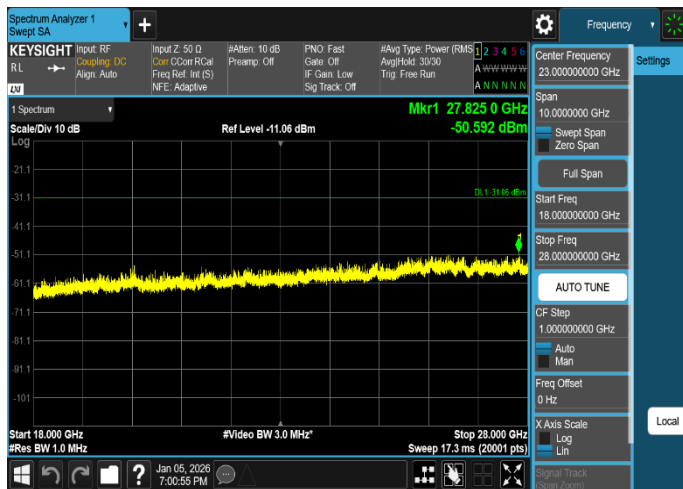
(MSR_B/n41_3NC_NR_10M+LTE_20M+20M_QPSK - High Channel,
Port 11)



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REPORT No.:
CTK-2026-00125
Page (86) / (102) pages



Plot 8-97. Conducted Spurious Emission Plot
18 GHz to 28 GHz

(MSR_B/n41_3NC_NR_10M+LTE_20M+20M_QPSK - High Channel,
Port 11)

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REPORT No.:
CTK-2026-00125
Page (87) / (102) pages

8.6 Radiated spurious emission

Test Overview

Radiated spurious emissions measurements are performed using the field strength method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized broadband tri-log antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas.

Test Procedure Used

ANSI C63.26 - Section 5.5.3.2

Test Setting

1. Start frequency was set to 30 MHz and stop frequency was set to at least 10 * the fundamental frequency
2. RBW = 1 MHz
3. VBW $\geq 3 \times$ RBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Max Hold (In cases where the level is within 2 dB of the limit, the final measurement is taken using triggering/gating and trace averaging.)
7. The trace was allowed to stabilize.

Limit

§ 27.53(m)(2)

For digital base stations, the attenuation shall be not less than $43 + 10 \log (P)$ dB, unless a documented interference complaint is received from an adjacent channel licensee with an overlapping Geographic Service Area.

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

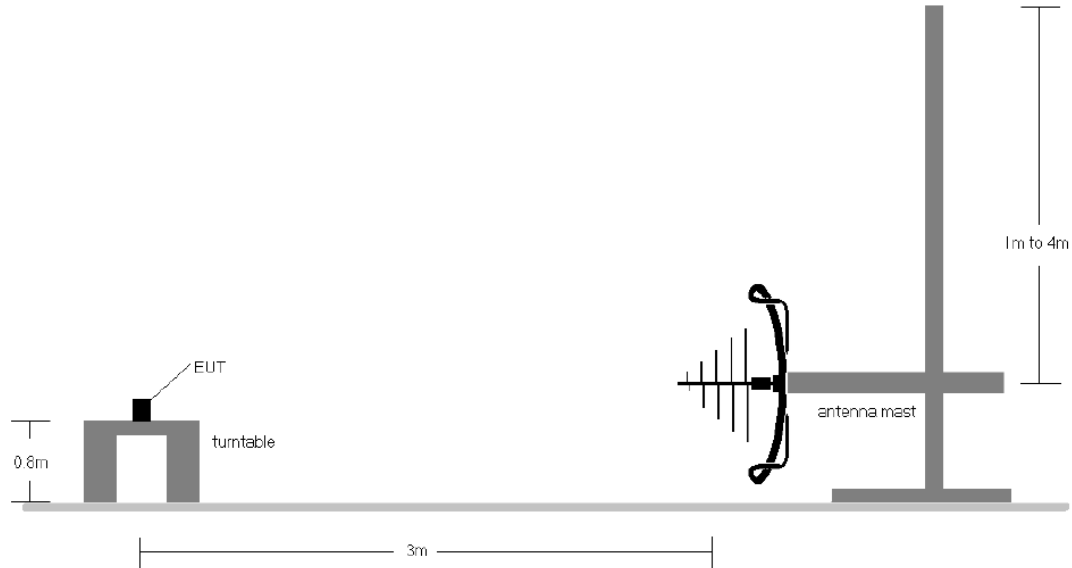


Figure 8-5. Test Instrument & Measurement Setup 30 MHz to 1000 MHz

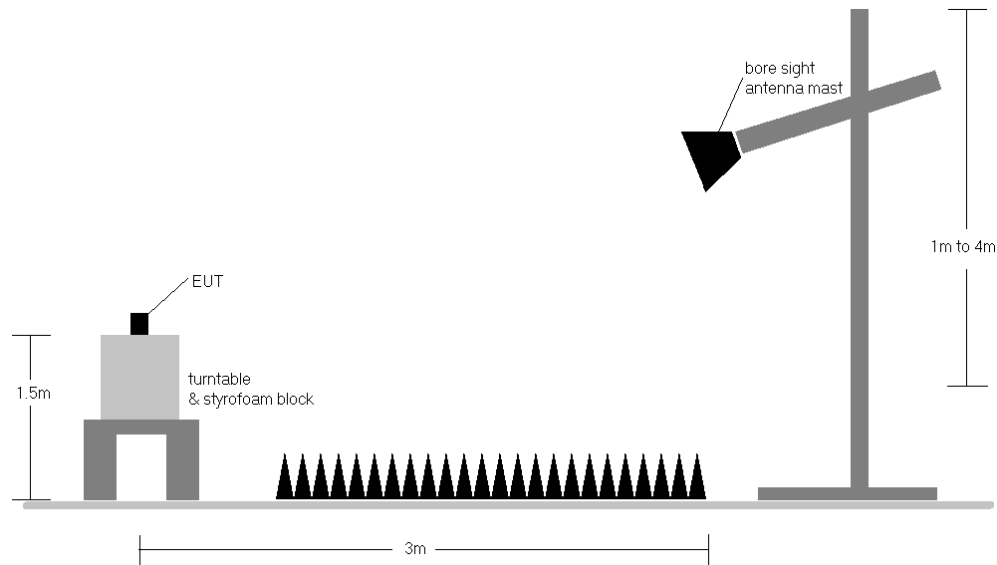


Figure 8-6. Test Instrument & Measurement Setup 1 GHz to 18 GHz

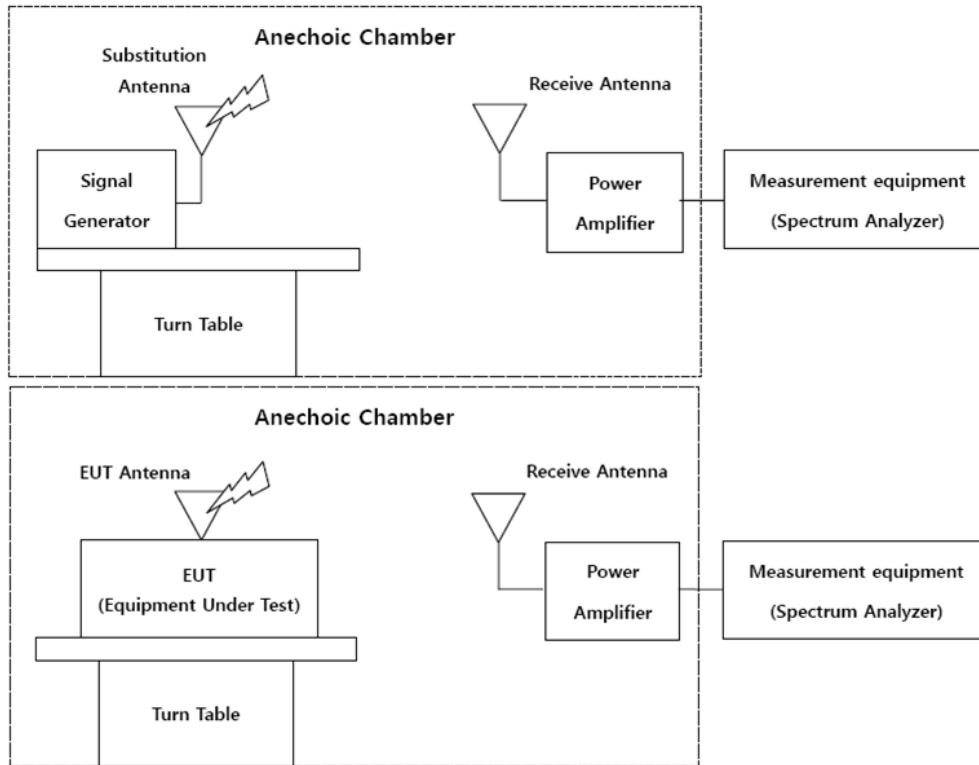


Figure 8-7. Test Instrument & Measurement Setup 18 GHz to 28 GHz

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CTK-2026-00125
Page (90) / (102) pages

Test Notes

1. The below 18GHz average EIRP reported below is calculated per 5.2.7 of ANSI C63.26-2015 which states:

The measured E-field in V/m is converted to e.i.r.p in dBm.

Effective Isotropic Radiated Power Sample Calculation

$$\begin{aligned}\text{Field Strength [dB}\mu\text{V/m]} &= \text{Measured Value [dB}\mu\text{V/m]} + \text{AFCL [dB/m]} \\ &= 59.3 \text{ [dB}\mu\text{V/m]} + 3.8 \text{ [dB/m]} = 63.1 \text{ dB}\mu\text{V/m}\end{aligned}$$

$$\begin{aligned}\text{e.i.r.p. [dBm]} &= E[\text{dB } \mu\text{V/m}] + 20 \log_{10}(d[\text{m}]) - 104.8 \\ &= 63.1 \text{ dB}[\mu\text{V/m}] + (20 * \log(3)) - 104.8 \\ &= -32.16 \text{ dBm}\end{aligned}$$

2. The above 18GHz average EIRP reported below is calculated per 5.5.3 of ANSI C63.26-2015 which states:

Effective Isotropic Radiated Power Sample Calculation**Substitution measurement**

$$\begin{aligned}\text{e.i.r.p. [dBm]} &= \text{EUT}_{\text{Prec}} [\text{dBm EIRP}] + P_L [\text{dB}] \\ &= -39.5 \text{ dBm} - 6.1 \\ &= -45.6 \text{ dBm}\end{aligned}$$

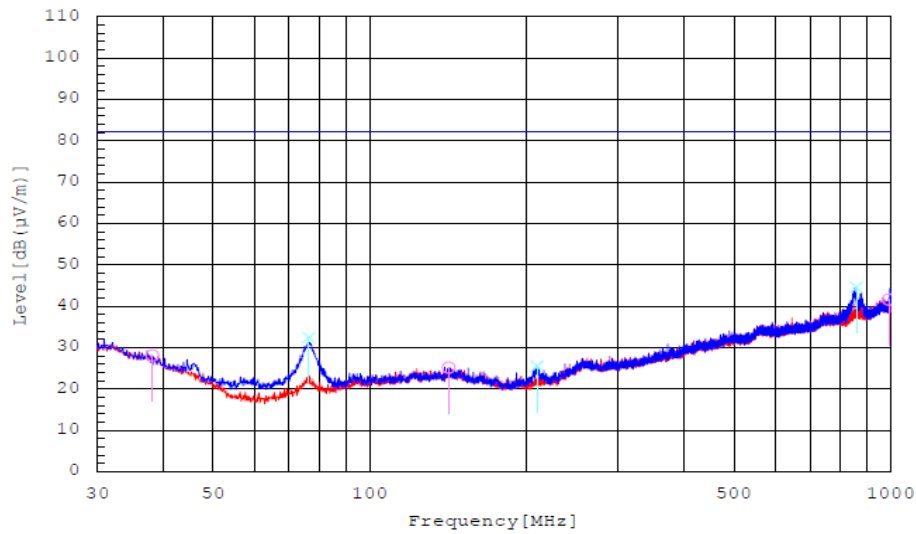
3. The EUT was tested in both horizontal and vertical antenna polarizations and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, channel bandwidth configurations shown in the tables below.
4. The spectrum is measured from 30 MHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
5. All emissions were measured at a 3-meter test distance.
6. Spurious emissions were measured with all EUT antennas transmitting simultaneously and all antenna ports terminated.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. All modes of operation were investigated and the worst case configuration results are reported in this section.



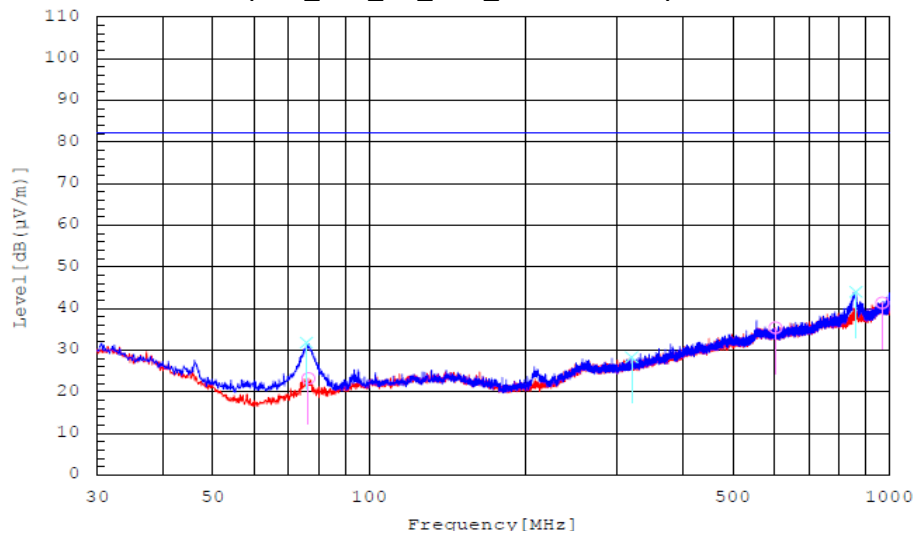
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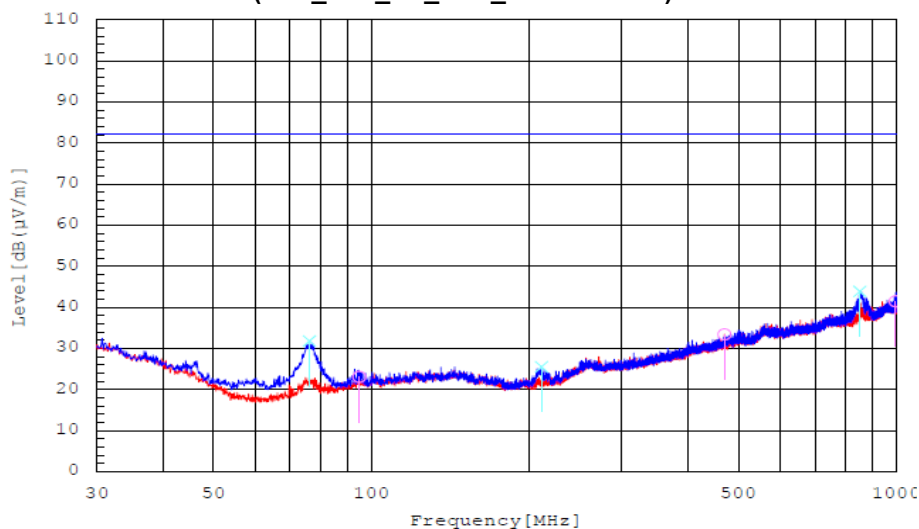
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CTK-2026-00125
Page (91) / (102) pages



**Plot 8-98. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B41_1C_10M_Low Channel)**



**Plot 8-99. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B41_1C_10M_Mid Channel)**



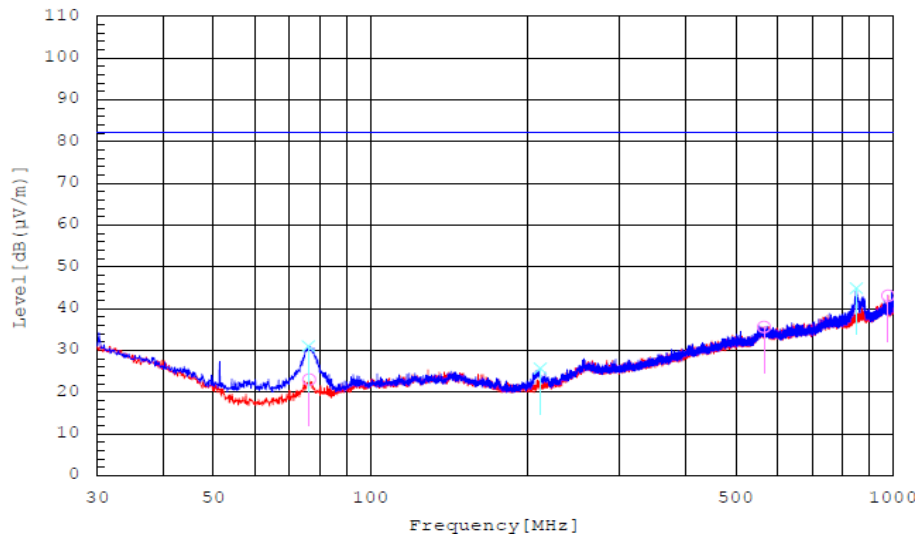
**Plot 8-100. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B41_1C_10M_High Channel)**



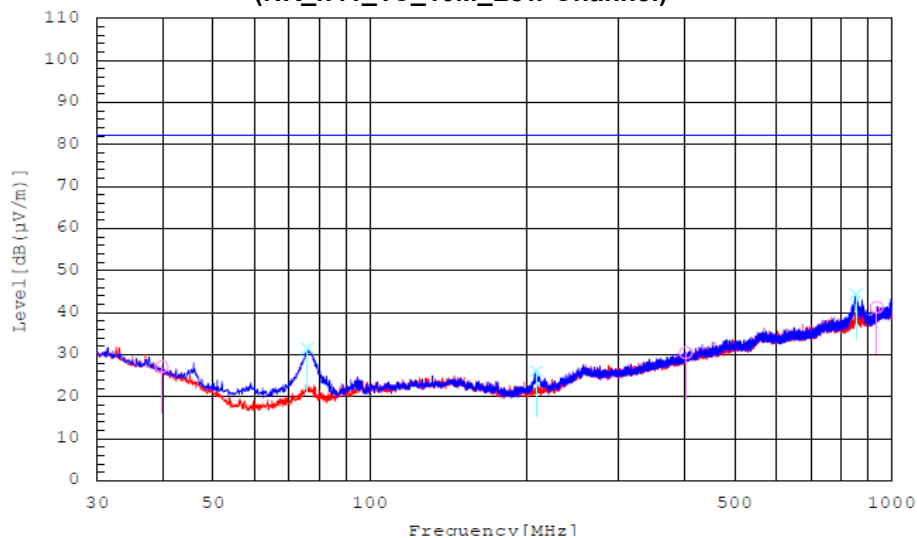
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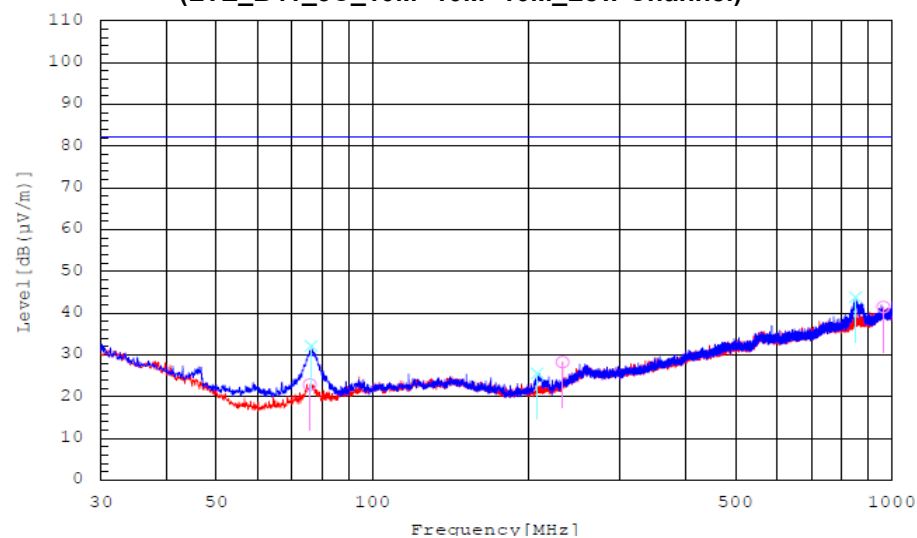
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CTK-2026-00125
Page (92) / (102) pages



**Plot 8-101. Radiated spurious emission Plot_30 MHz to 1000 MHz
(NR_n41_1C_10M_Low Channel)**



**Plot 8-102. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B41_3C_10M+10M+10M_Low Channel)**



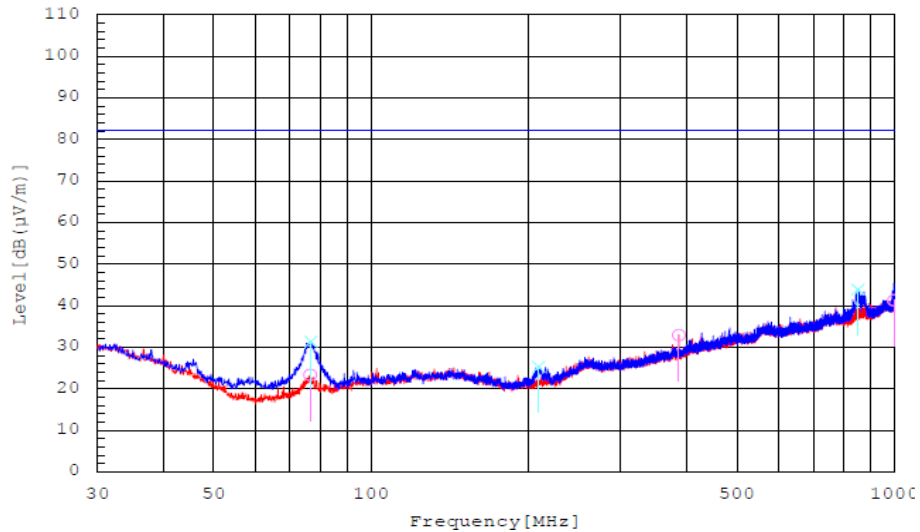
**Plot 8-103. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B41_3NC_20M+20M+20M_Low Channel)**



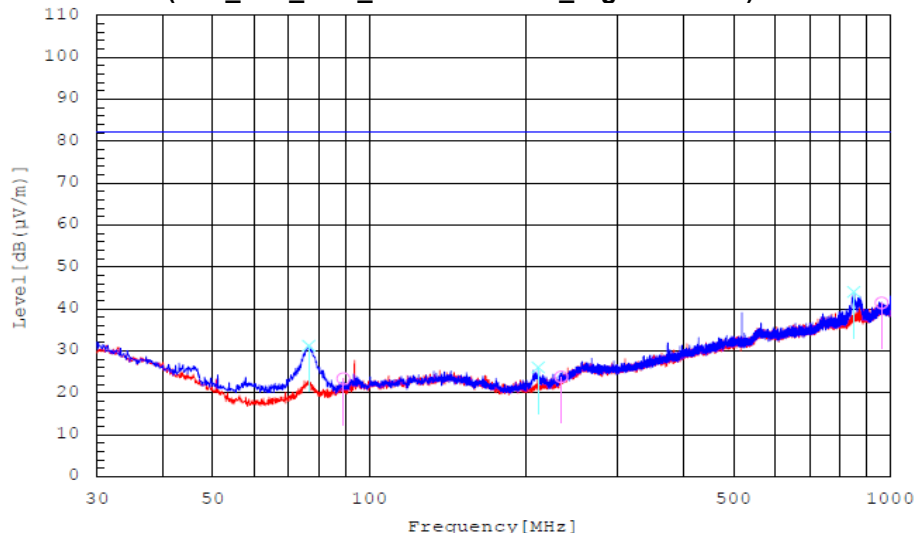
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17142, Korea
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REPORT No.:
CTK-2026-00125
Page (93) / (102) pages



Plot 8-104. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B41_3NC_20M+20M+20M_High Channel)



Plot 8-105. Radiated spurious emission Plot_30 MHz to 1000 MHz
(MSR_B/n41_3NC_NR_10M+LTE_20M+20M_Low Channel)

Mod	Frequency [MHz]	Ant. Pol. [H/V]	Analyzer Level [dB/μV/m]	AFCL [dB]	Field Strength [dB/μV/m]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Antenna Heigh [cm]	Turntable azimuth [degree]
NR_n41_1C_10M	75.46	V	47.8	-16.6	31.2	-64.06	-13.0	-51.06	104.0	51.6
	75.48	H	38.5	-16.6	21.9	-73.36	-13.0	-60.36	106.7	220.2
	854.25	V	40.6	3.5	44.1	-51.16	-13.0	-38.16	204.5	342.8
	975.77	H	35.5	6.6	42.1	-53.16	-13.0	-40.16	208.8	354.6

All detected emissions are compliant with attenuated more than 20 dB below limit.

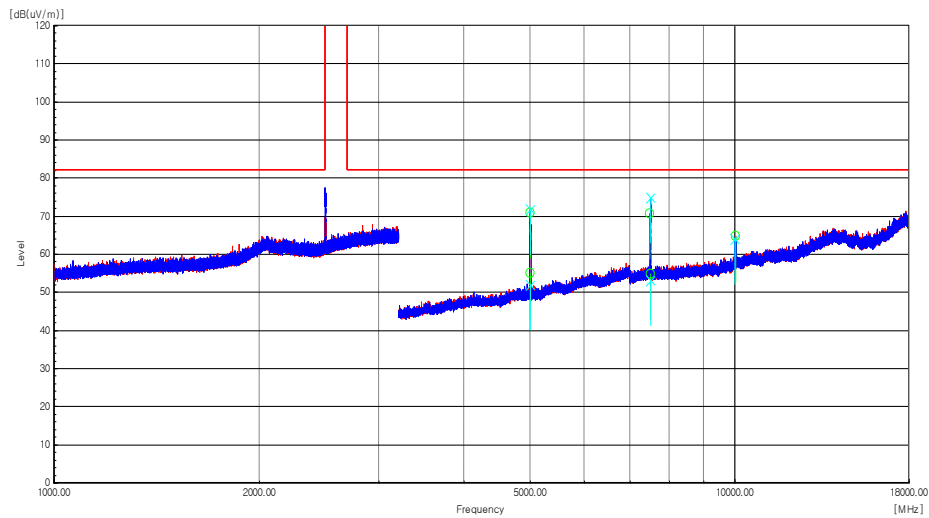
Table 8-22. Radiated spurious emission 30 MHz to 1000 MHz Worst mode Summary Data



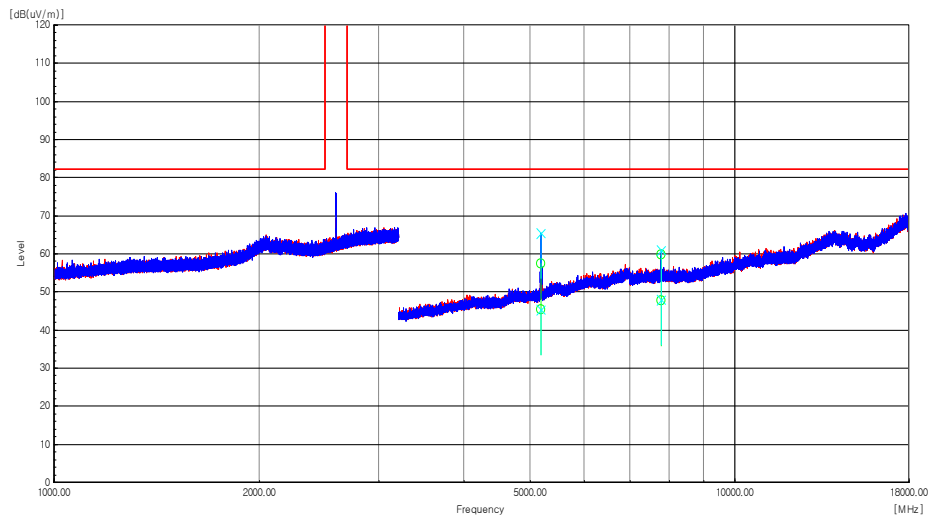
CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

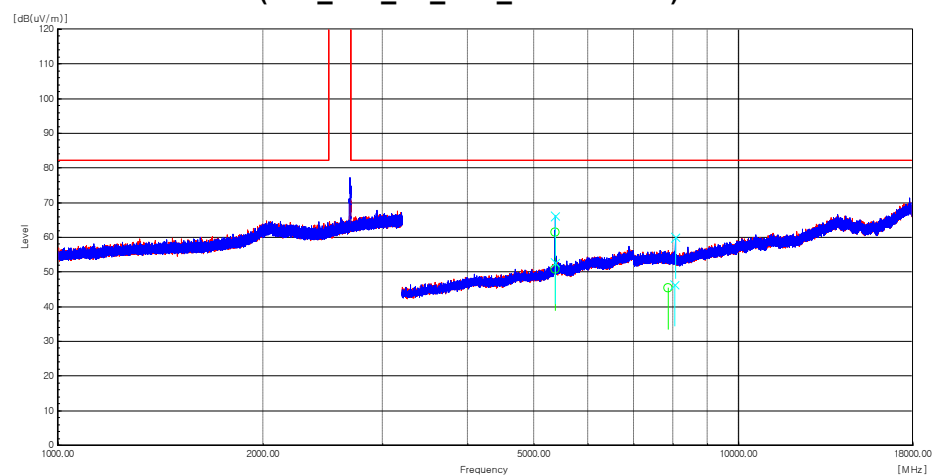
REPORT No.:
CTK-2026-00125
Page (94) / (102) pages



**Plot 8-106. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B41_1C_10M_Low Channel)**



**Plot 8-107. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B41_1C_10M_Mid Channel)**



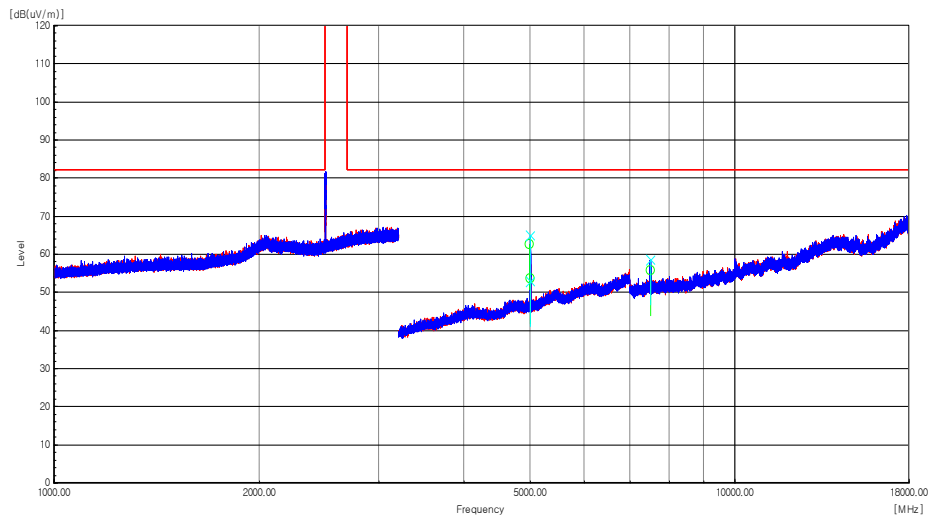
**Plot 8-108. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B41_1C_10M_High Channel)**



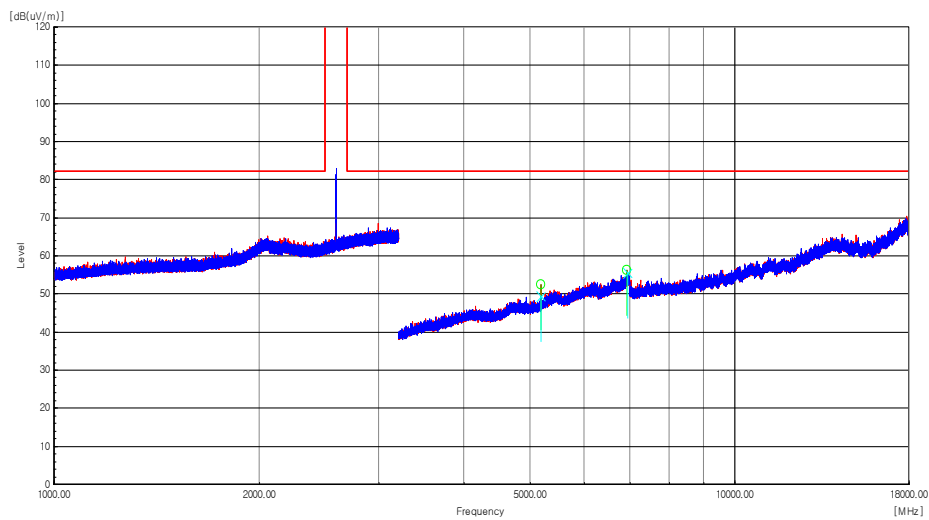
CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

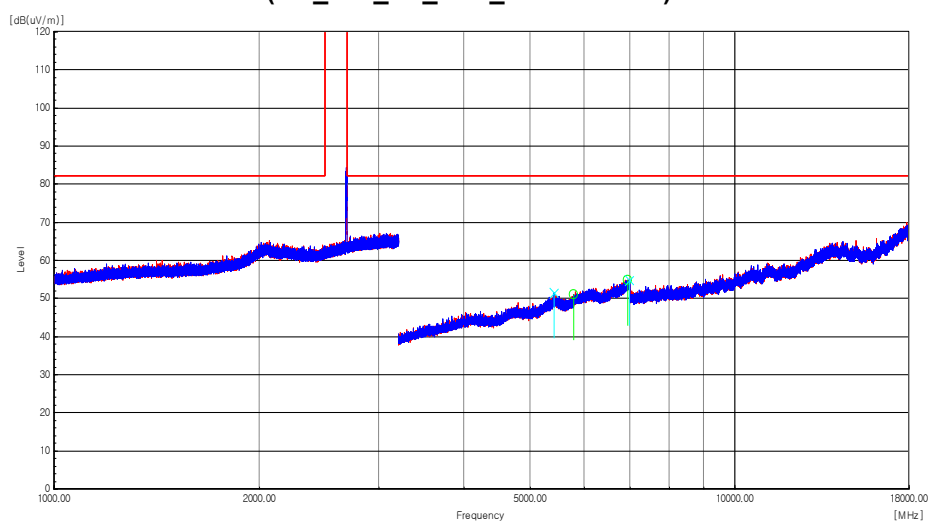
REPORT No.:
CTK-2026-00125
Page (95) / (102) pages



**Plot 8-109. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n41_1C_10M_Low Channel)**



**Plot 8-110. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n41_1C_90M_Mid Channel)**



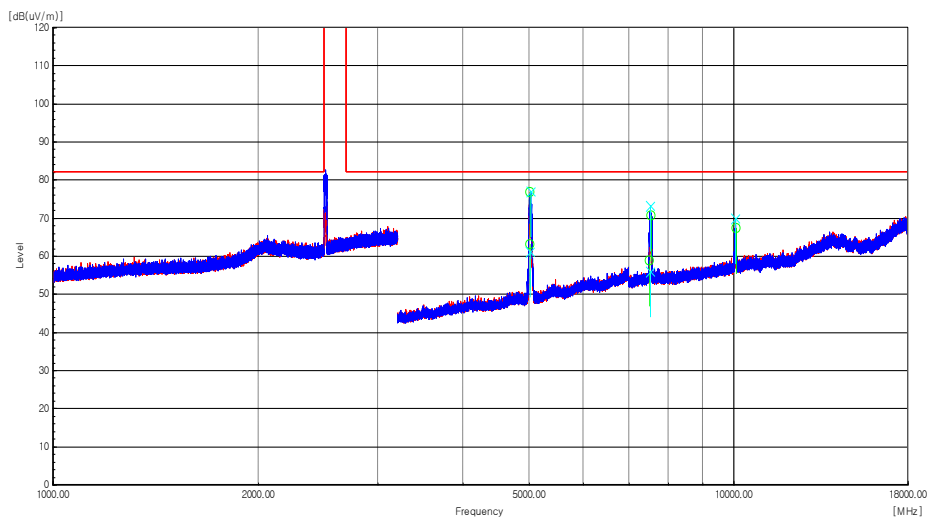
**Plot 8-111. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n41_1C_10M_High Channel)**



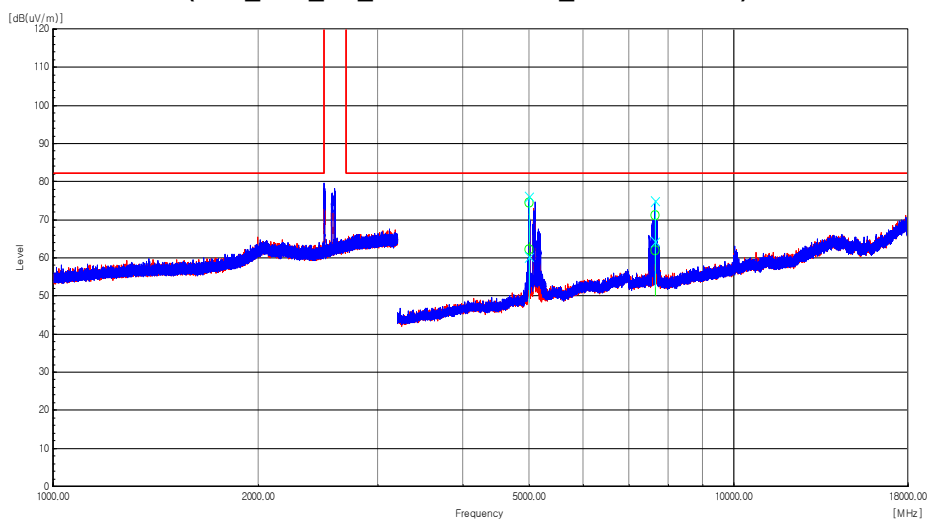
CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

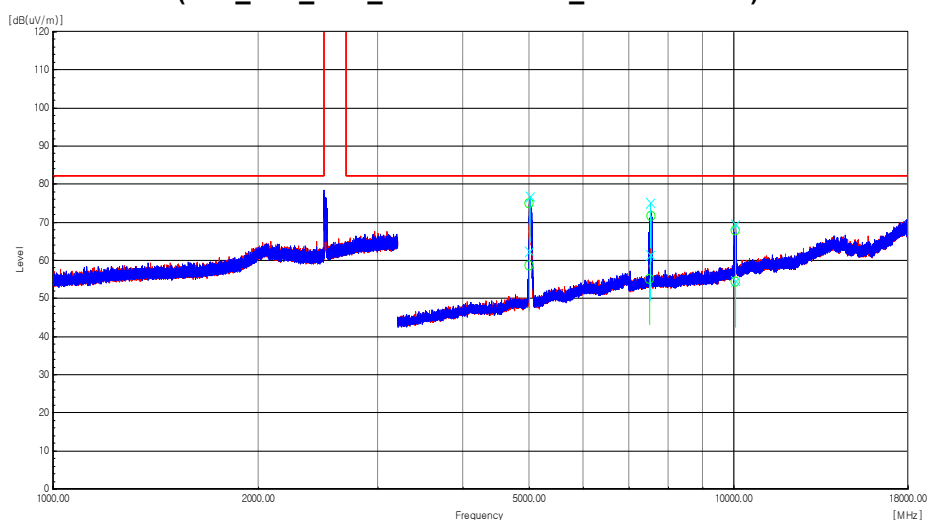
REPORT No.:
CTK-2026-00125
Page (96) / (102) pages



**Plot 8-112. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B41_3C_10M+10M+10M_Low Channel)**



**Plot 8-113. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B41_3NC_10M+10M+10M_Low Channel)**



**Plot 8-114. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B41_3C_20M+20M+20M_Low Channel)**