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Plot 8-130. Conducted Spurious Emission Plot
6.2 GHz to 18 GHz
(B/n66(B/n4)_NC_NR_1C_25M+LTE_2C_10M+5M - QPSK, Port 2)



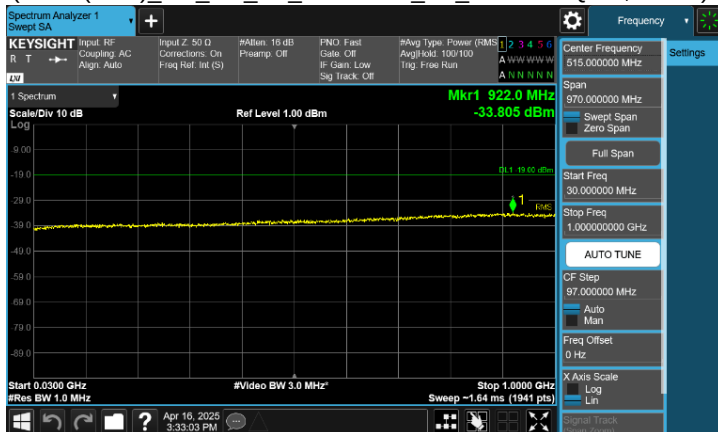
Plot 8-131. Conducted Spurious Emission Plot
18 GHz to 26.5 GHz
(B/n66(B/n4)_NC_NR_1C_25M+LTE_2C_10M+5M - QPSK, Port 2)



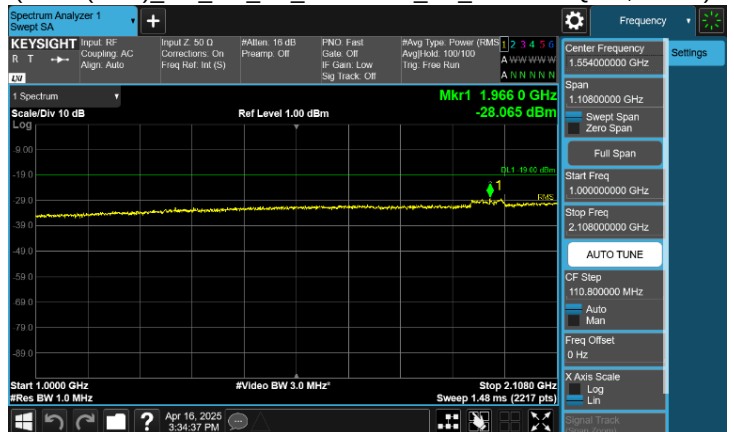
Plot 8-132. Conducted Spurious Emission Plot
9 kHz to 150 kHz
(B/n66(B/n4)_NC_NR_1C_25M+DSS_1C_15M - 16QAM, Port 3)



Plot 8-133. Conducted Spurious Emission Plot
150 kHz to 30 MHz
(B/n66(B/n4)_NC_NR_1C_25M+DSS_1C_15M - 16QAM, Port 3)



Plot 8-134. Conducted Spurious Emission Plot
30 MHz to 1 GHz
(B/n66(B/n4)_NC_NR_1C_25M+DSS_1C_15M - 16QAM, Port 3)



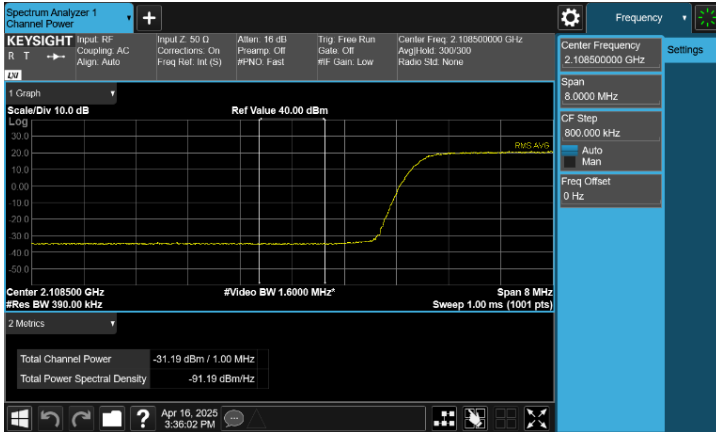
Plot 8-135. Conducted Spurious Emission Plot
1 GHz to 2.108 GHz
(B/n66(B/n4)_NC_NR_1C_25M+DSS_1C_15M - 16QAM, Port 3)



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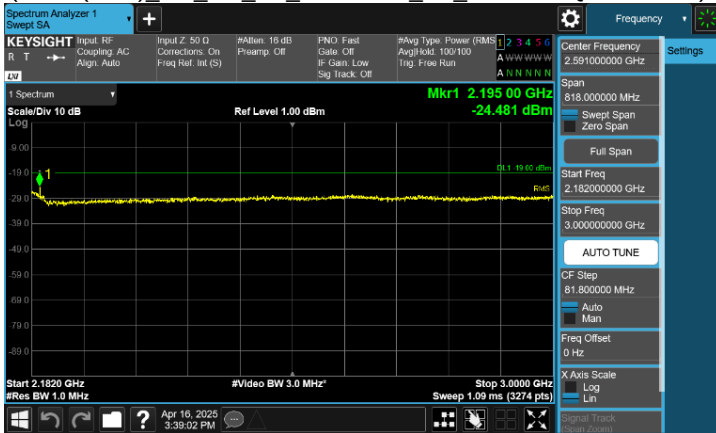
Plot 8-136. Conducted Spurious Emission Plot
2.108 GHz to 2.109 GHz

(B/n66(B/n4)_NC_NR_1C_25M+DSS_1C_15M – 16QAM, Port 3)



Plot 8-137. Conducted Spurious Emission Plot
2.181 GHz to 2.182 GHz

(B/n66(B/n4)_NC_NR_1C_25M+DSS_1C_15M – 16QAM, Port 3)



Plot 8-138. Conducted Spurious Emission Plot
2.182 GHz to 3 GHz

(B/n66(B/n4)_NC_NR_1C_25M+DSS_1C_15M – 16QAM, Port 3)



Plot 8-139. Conducted Spurious Emission Plot
3 GHz to 6.2 GHz

(B/n66(B/n4)_NC_NR_1C_25M+DSS_1C_15M – 16QAM, Port 3)



Plot 8-140. Conducted Spurious Emission Plot
6.2 GHz to 18 GHz

(B/n66(B/n4)_NC_NR_1C_25M+DSS_1C_15M – 16QAM, Port 3)



Plot 8-141. Conducted Spurious Emission Plot
18 GHz to 26.5 GHz

(B/n66(B/n4)_NC_NR_1C_25M+DSS_1C_15M – 16QAM, Port 3)



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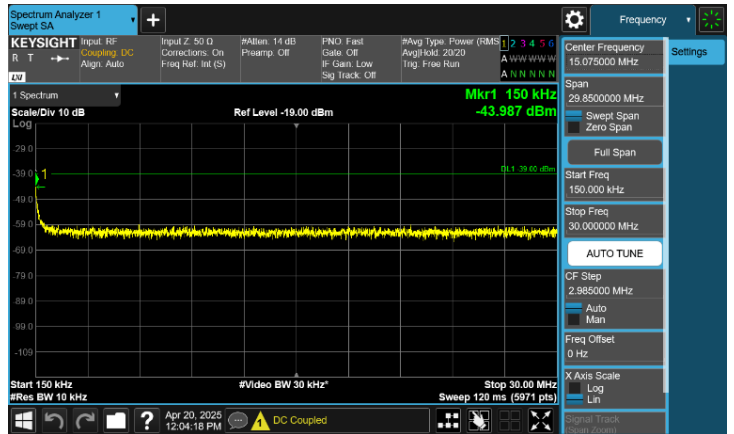
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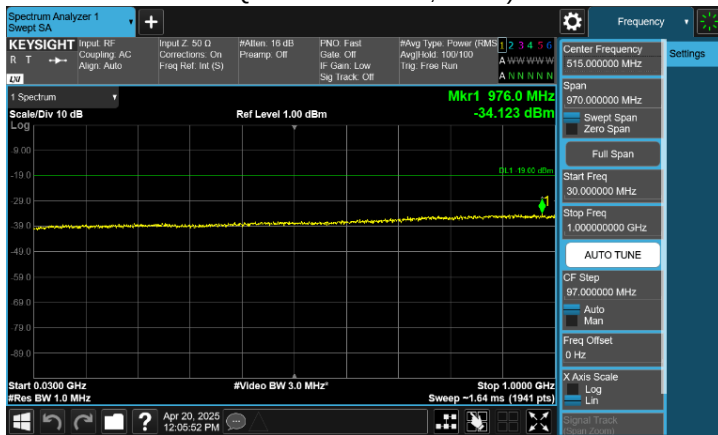
Plot 8-142. Conducted Spurious Emission Plot
9 kHz to 150 kHz

(n25(n2)_NR_3C_5M+5M+20M+B/n66(B/n4)_NR_2C_10M+30M_16QAM – Multi-Band, Port 1)



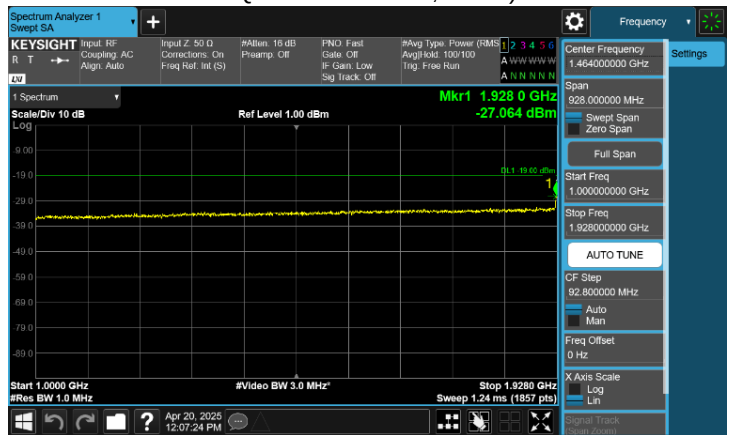
Plot 8-143. Conducted Spurious Emission Plot
150 kHz to 30 MHz

(n25(n2)_NR_3C_5M+5M+20M+B/n66(B/n4)_NR_2C_10M+30M_16QAM – Multi-Band, Port 1)



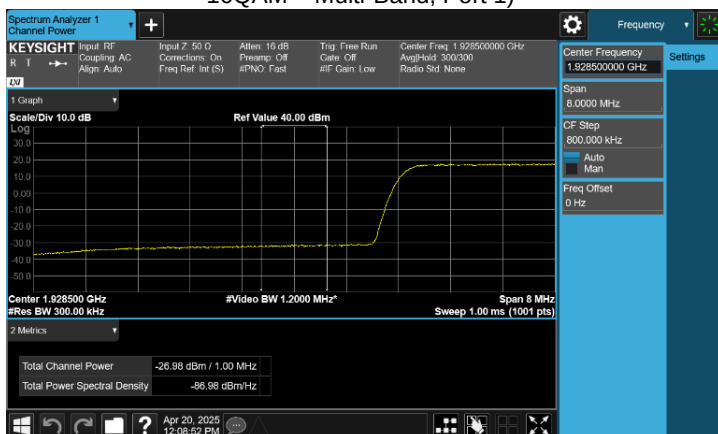
Plot 8-144. Conducted Spurious Emission Plot
30 MHz to 1 GHz

(n25(n2)_NR_3C_5M+5M+20M+B/n66(B/n4)_NR_2C_10M+30M_16QAM – Multi-Band, Port 1)



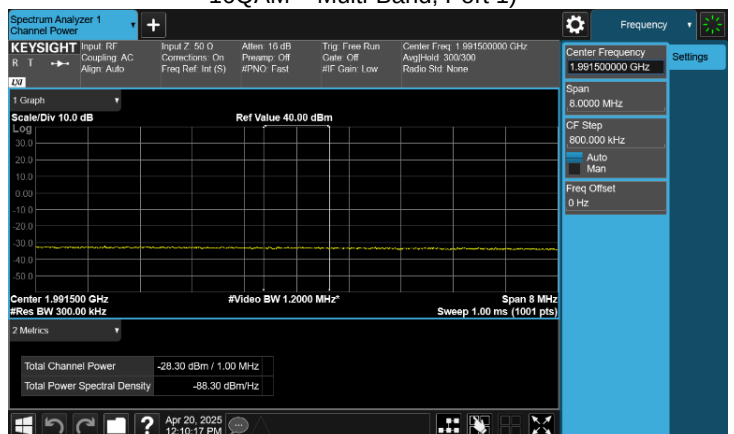
Plot 8-145. Conducted Spurious Emission Plot
1 GHz to 1.928 GHz

(n25(n2)_NR_3C_5M+5M+20M+B/n66(B/n4)_NR_2C_10M+30M_16QAM – Multi-Band, Port 1)



Plot 8-146. Conducted Spurious Emission Plot
1.928 GHz to 1.929 GHz

(n25(n2)_NR_3C_5M+5M+20M+B/n66(B/n4)_NR_2C_10M+30M_16QAM – Multi-Band, Port 1)



Plot 8-147. Conducted Spurious Emission Plot
1.991 GHz to 1.992 GHz

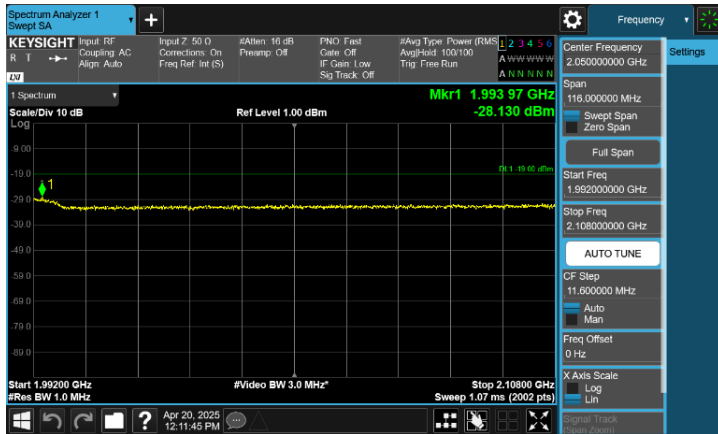
(n25(n2)_NR_3C_5M+5M+20M+B/n66(B/n4)_NR_2C_10M+30M_16QAM – Multi-Band, Port 1)



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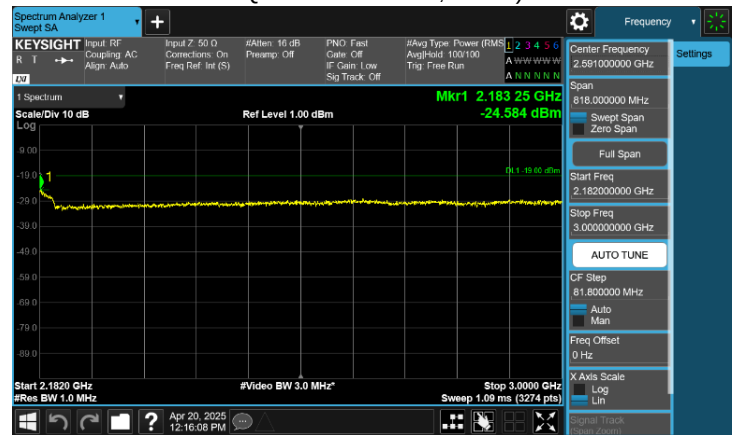
Plot 8-148. Conducted Spurious Emission Plot
1.992 GHz to 2.108 GHz
(n25(n2)_NR_3C_5M+5M+20M+B/n66(B/n4)_NR_2C_10M+30M_16QAM – Multi-Band, Port 1)



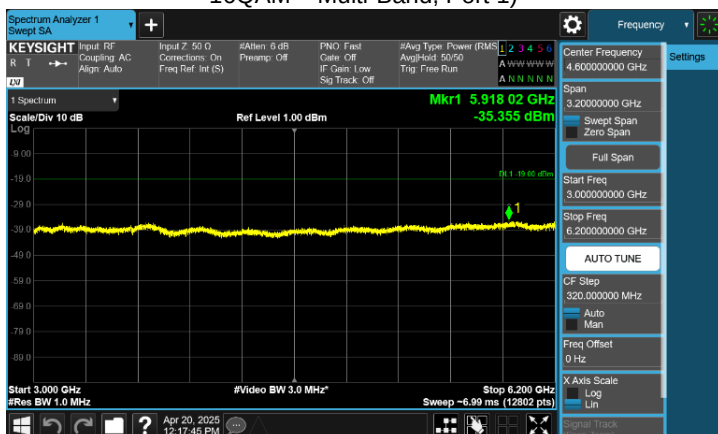
Plot 8-149. Conducted Spurious Emission Plot
2.108 GHz to 2.109 GHz
(n25(n2)_NR_3C_5M+5M+20M+B/n66(B/n4)_NR_2C_10M+30M_16QAM – Multi-Band, Port 1)



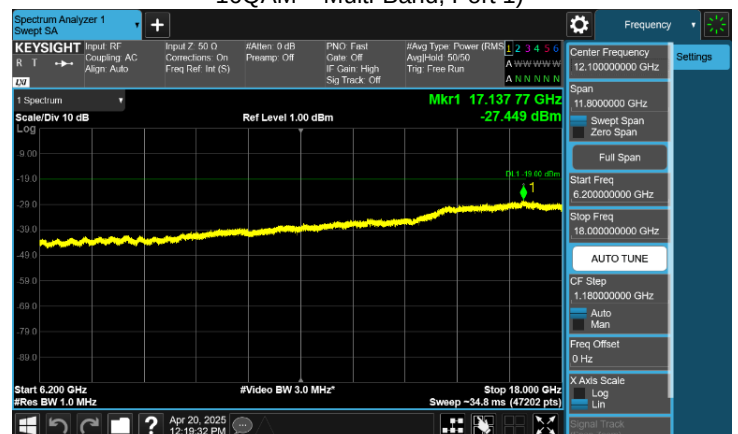
Plot 8-150. Conducted Spurious Emission Plot
2.181 GHz to 2.182 GHz
(n25(n2)_NR_3C_5M+5M+20M+B/n66(B/n4)_NR_2C_10M+30M_16QAM – Multi-Band, Port 1)



Plot 8-151. Conducted Spurious Emission Plot
2.182 GHz to 3 GHz
(n25(n2)_NR_3C_5M+5M+20M+B/n66(B/n4)_NR_2C_10M+30M_16QAM – Multi-Band, Port 1)



Plot 8-152. Conducted Spurious Emission Plot
3 GHz to 6.2 GHz
(n25(n2)_NR_3C_5M+5M+20M+B/n66(B/n4)_NR_2C_10M+30M_16QAM – Multi-Band, Port 1)



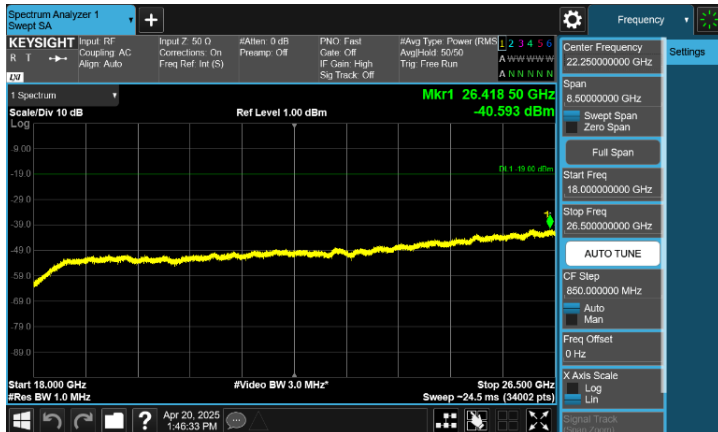
Plot 8-153. Conducted Spurious Emission Plot
6.2 GHz to 18 GHz
(n25(n2)_NR_3C_5M+5M+20M+B/n66(B/n4)_NR_2C_10M+30M_16QAM – Multi-Band, Port 1)



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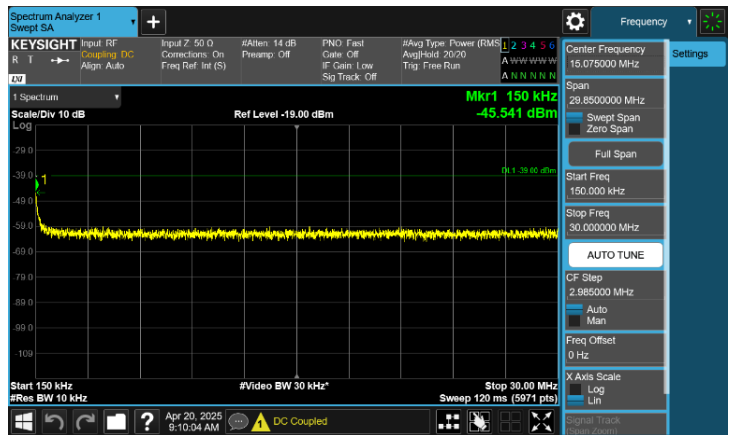
Plot 8-154. Conducted Spurious Emission Plot
18 GHz to 26.5 GHz

(n25(n2)_NR_3C_5M+5M+20M+B/n66(B/n4)_NR_2C_10M+30M_16QAM – Multi-Band, Port 1)



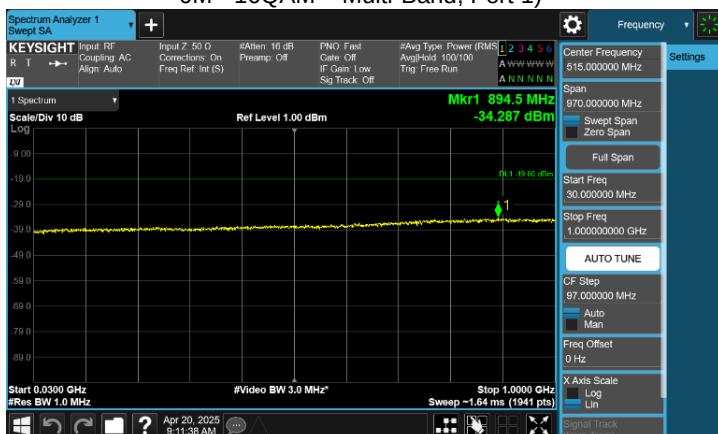
Plot 8-155. Conducted Spurious Emission Plot
9 kHz to 150 kHz

(n25(n2)_NC_NR_2C_5M+25M+B/n66(B/n4)_NR_3C_5M+15M+20M - 16QAM – Multi-Band, Port 1)



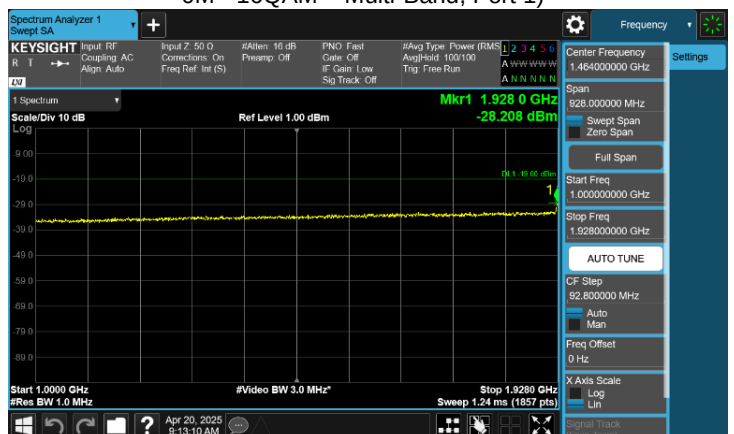
Plot 8-156. Conducted Spurious Emission Plot
150 kHz to 30 MHz

(n25(n2)_NC_NR_2C_5M+25M+B/n66(B/n4)_NR_3C_5M+15M+20M - 16QAM – Multi-Band, Port 1)



Plot 8-157. Conducted Spurious Emission Plot
30 MHz to 1 GHz

(n25(n2)_NC_NR_2C_5M+25M+B/n66(B/n4)_NR_3C_5M+15M+20M - 16QAM – Multi-Band, Port 1)



Plot 8-158. Conducted Spurious Emission Plot
1 GHz to 1.928 GHz

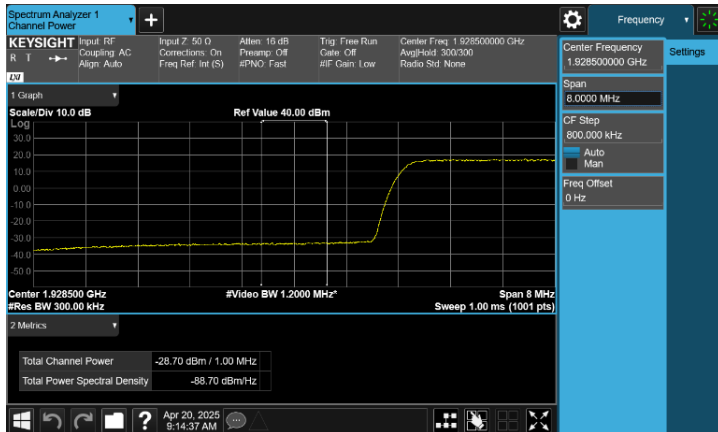
(n25(n2)_NC_NR_2C_5M+25M+B/n66(B/n4)_NR_3C_5M+15M+20M - 16QAM – Multi-Band, Port 1)



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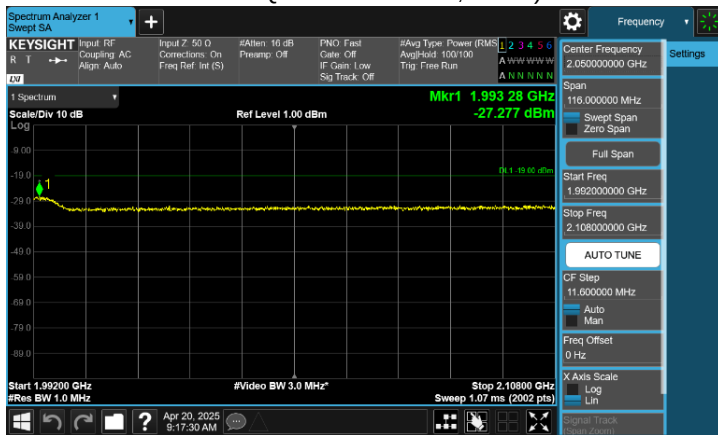
Plot 8-159. Conducted Spurious Emission Plot
1.928 MHz to 1.929 GHz

(n25(n2)_NC_NR_2C_5M+25M+B/n66(B/n4)_NR_3C_5M+15M+2
0M - 16QAM – Multi-Band, Port 1)



Plot 8-160. Conducted Spurious Emission Plot
1.991 MHz to 1.992 GHz

(n25(n2)_NC_NR_2C_5M+25M+B/n66(B/n4)_NR_3C_5M+15M+2
0M - 16QAM – Multi-Band, Port 1)



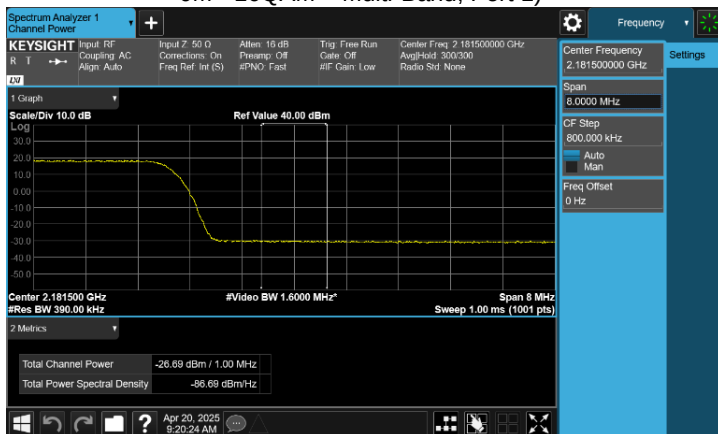
Plot 8-161. Conducted Spurious Emission Plot
1.992 MHz to 2.108 GHz

(n25(n2)_NC_NR_2C_5M+25M+B/n66(B/n4)_NR_3C_5M+15M+2
0M - 16QAM – Multi-Band, Port 1)



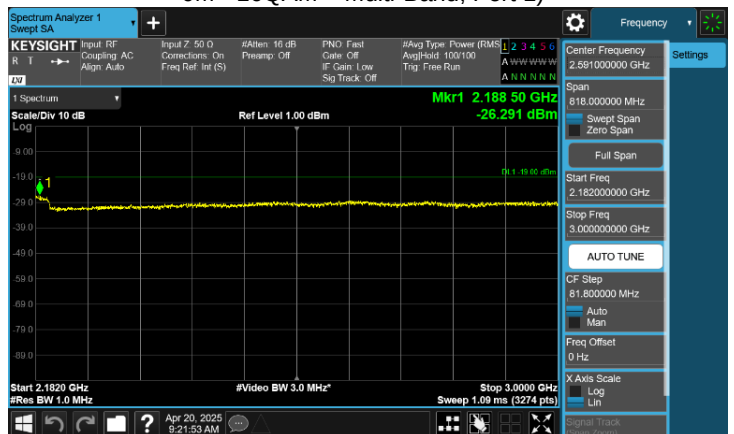
Plot 8-162. Conducted Spurious Emission Plot
2.108 MHz to 2.109 GHz

(n25(n2)_NC_NR_2C_5M+25M+B/n66(B/n4)_NR_3C_5M+15M+2
0M - 16QAM – Multi-Band, Port 1)



Plot 8-163. Conducted Spurious Emission Plot
2.181 MHz to 2.182 GHz

(n25(n2)_NC_NR_2C_5M+25M+B/n66(B/n4)_NR_3C_5M+15M+2
0M - 16QAM – Multi-Band, Port 1)



Plot 8-164. Conducted Spurious Emission Plot
2.182 GHz to 3 GHz

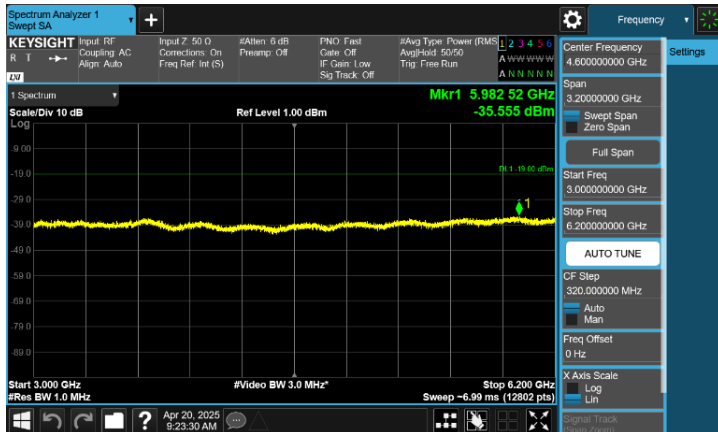
(n25(n2)_NC_NR_2C_5M+25M+B/n66(B/n4)_NR_3C_5M+15M+2
0M - 16QAM – Multi-Band, Port 1)



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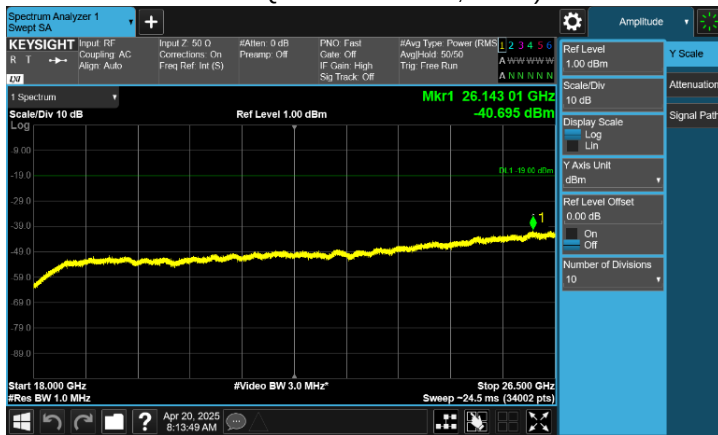
Plot 8-165. Conducted Spurious Emission Plot
3 GHz to 6.2 GHz

(n25(n2)_NC_NR_2C_5M+25M+B/n66(B/n4)_NR_3C_5M+15M+2
0M - 16QAM – Multi-Band, Port 1)



Plot 8-166. Conducted Spurious Emission Plot
6.2 GHz to 18 GHz

(n25(n2)_NC_NR_2C_5M+25M+B/n66(B/n4)_NR_3C_5M+15M+2
0M - 16QAM – Multi-Band, Port 1)



Plot 8-167. Conducted Spurious Emission Plot
18 GHz to 26.5 GHz

(n25(n2)_NC_NR_2C_5M+25M+B/n66(B/n4)_NR_3C_5M+15M+2
0M - 16QAM – Multi-Band, Port 1)

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8.7 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 $10 \times$ the fundamental frequency
2. RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1GHz
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

§ 24.238

(a) 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.

§ 27.53

(1) General protection levels. 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.

Test Setup

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

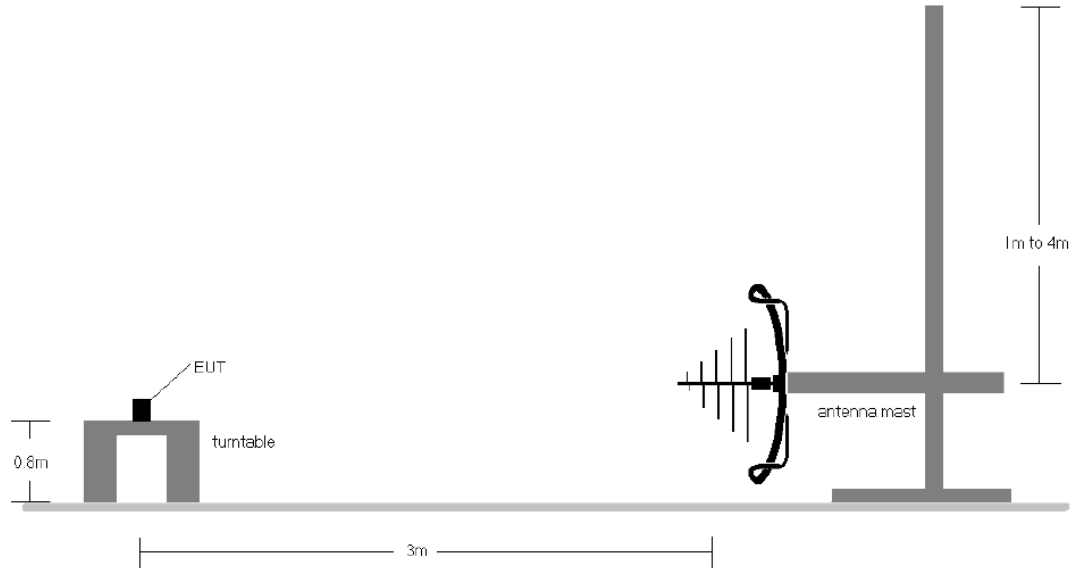


Figure 8-6. Test Instrument & Measurement Setup < 1 GHz

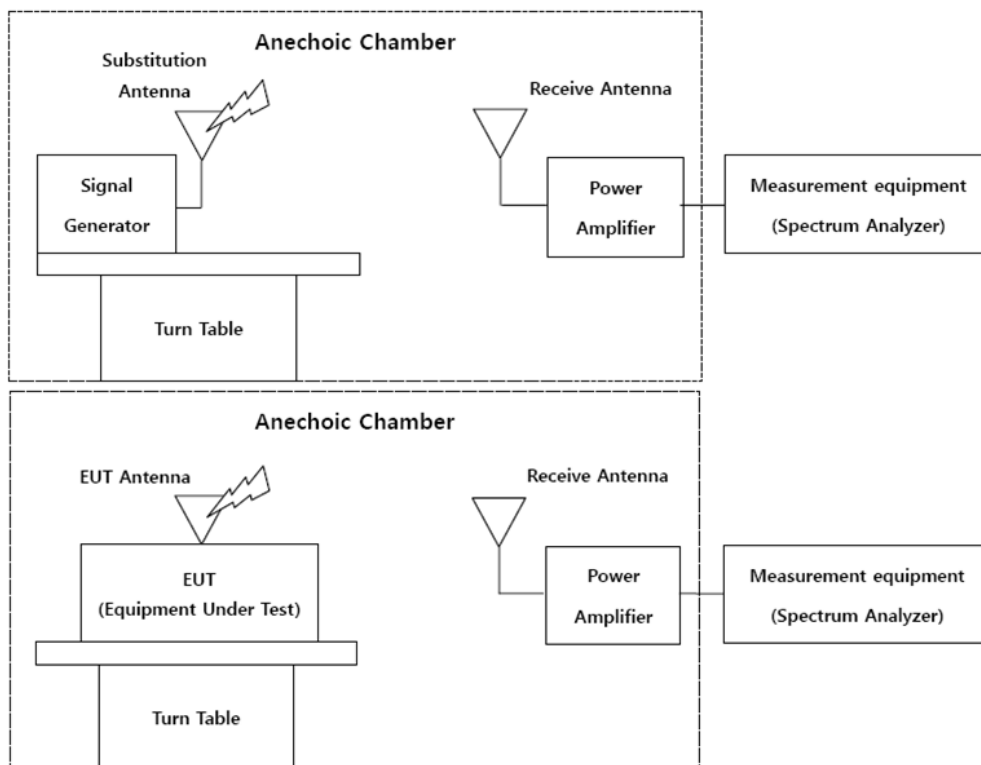


Figure 8-7. Test Instrument & Measurement Setup > 1 GHz

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Test Notes

1. The below 1GHz 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

$$\begin{aligned}\text{Field Strength [dB}\mu\text{V/m]} &= \text{Measured Value [dB}\mu\text{V/m]} + \text{AFCL [dB/m]} \\ &= 34.3 \text{ [dB}\mu\text{V/m]} + 6.2 \text{ [dB/m]} = 40.7 \text{ dB}\mu\text{V/m}\end{aligned}$$

$$\begin{aligned}\text{e.i.r.p. [dBm]} &= E[\text{dB } \mu\text{V/m}] + 20 \log_{10}(d[\text{m}]) - 104.8 \\ &= 40.7 \text{ dB}[\mu\text{V/m}] + (20 * \log(3)) - 104.8 \\ &= -54.6 \text{ dBm}\end{aligned}$$

2. The above 1GHz 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**

$$\begin{aligned}\text{e.i.r.p. [dBm]} &= \text{EUT}_{\text{Prec}} [\text{dBm EIRP}] + P_L [\text{dB}] \\ &= -71.9 \text{ dBm} + 29.1 \\ &= -42.8 \text{ dBm}\end{aligned}$$

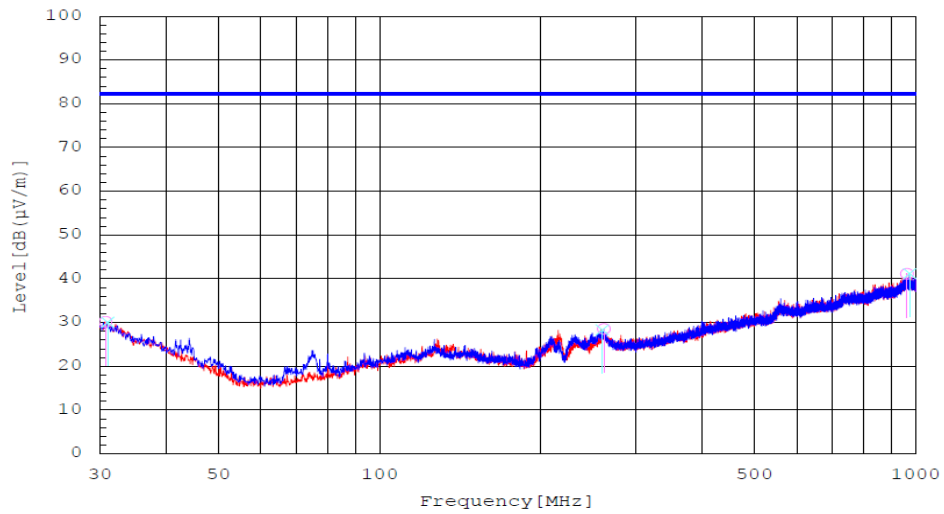
3. The EUT was tested in both horizontal and vertical antenna polarizations and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, channel bandwidth configurations shown in the tables below.
4. The spectrum is measured from 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.



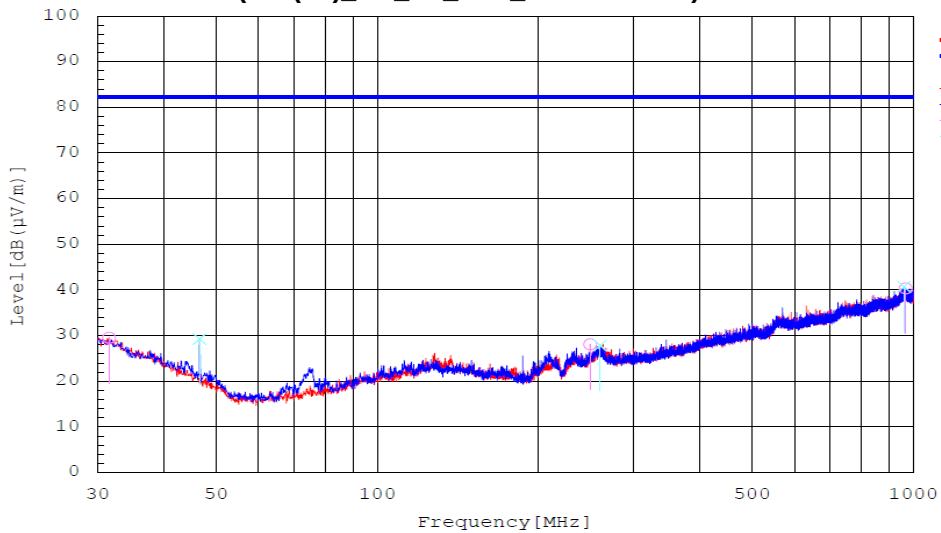
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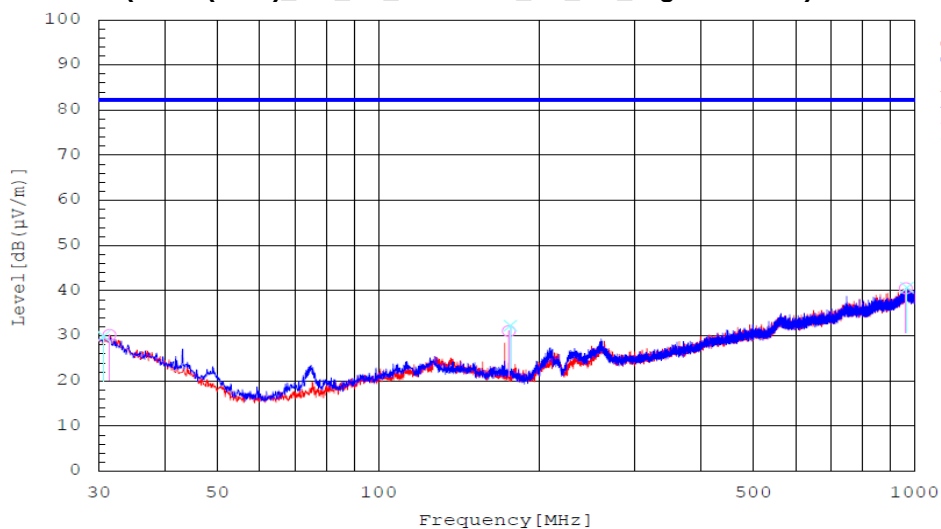
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**Plot 8-168. Radiated spurious emission Plot_30 MHz to 1000 MHz
(n25(n2)_NR_1C_25M_Low Channel)**



**Plot 8-169. Radiated spurious emission Plot_30 MHz to 1000 MHz
(B/n25(B/n2)_NR_1C_25M+LTE_1C_5M_High Channel)**

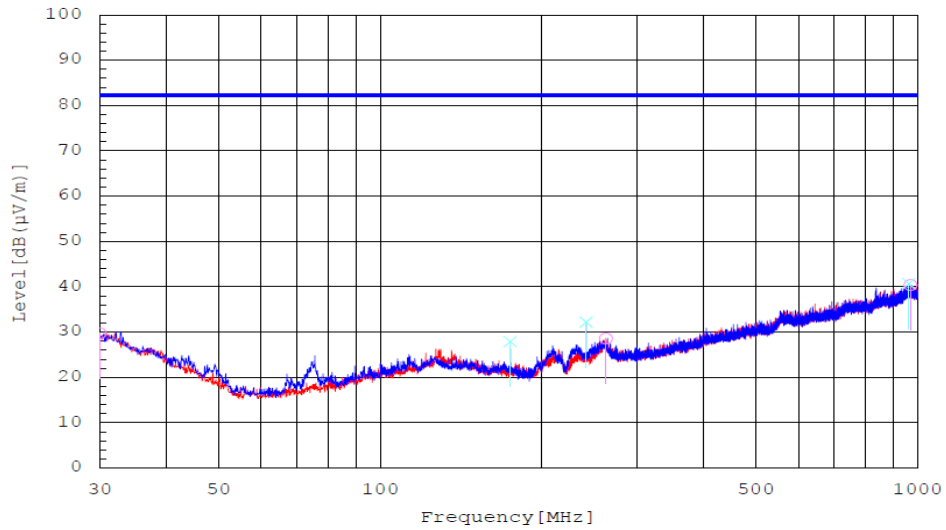


**Plot 8-170. Radiated spurious emission Plot_30 MHz to 1000 MHz
(n66(n4)_NR_1C_30M_Mid Channel)**

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Plot 8-171. Radiated spurious emission Plot_30 MHz to 1000 MHz
(B/n66(B/n4)_NR_1C_30M+DSS_1C_10M+LTE_1C_5M_High 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]	Turn table azimuth [degree]
n25(n2)_NR_1C_25M_Low	963.14	H	34.4	6.2	40.6	-54.7	-13.0	41.7	100	306.4
	969.15	V	34.3	6.4	40.7	-54.6	-13.0	41.6	100	36.9
B/n25(B/n2)_NR_1C_25M+LTE_1C_5M_High	All detected emissions are compliant with attenuated more than 20 dB below limit.									
n66(n4)_NR_1C_30M_Mid										
(B/n66(B/n4)_NR_1C_30M+DSS_1C_10M+LTE_1C_5M										

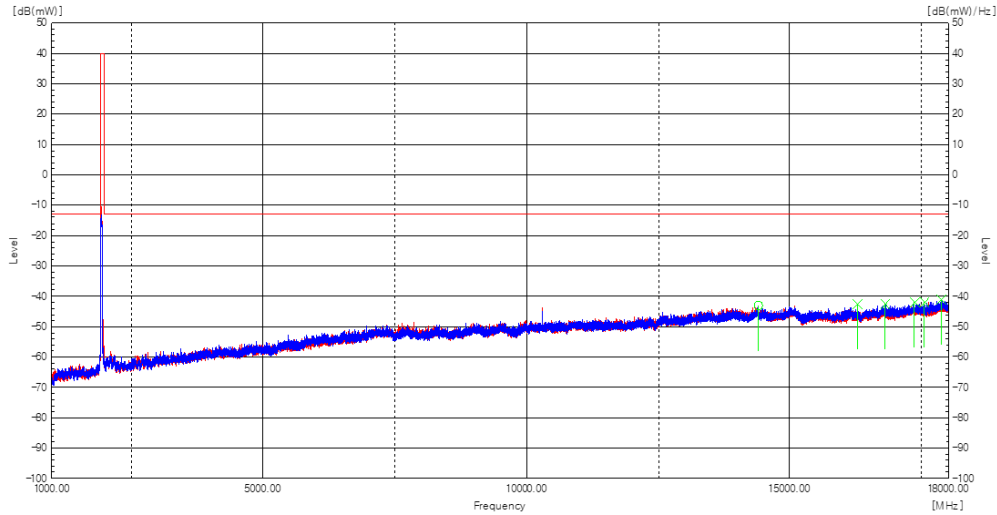
Table 8-40. Radiated spurious emission below 1GHz Worst mode Summary Data



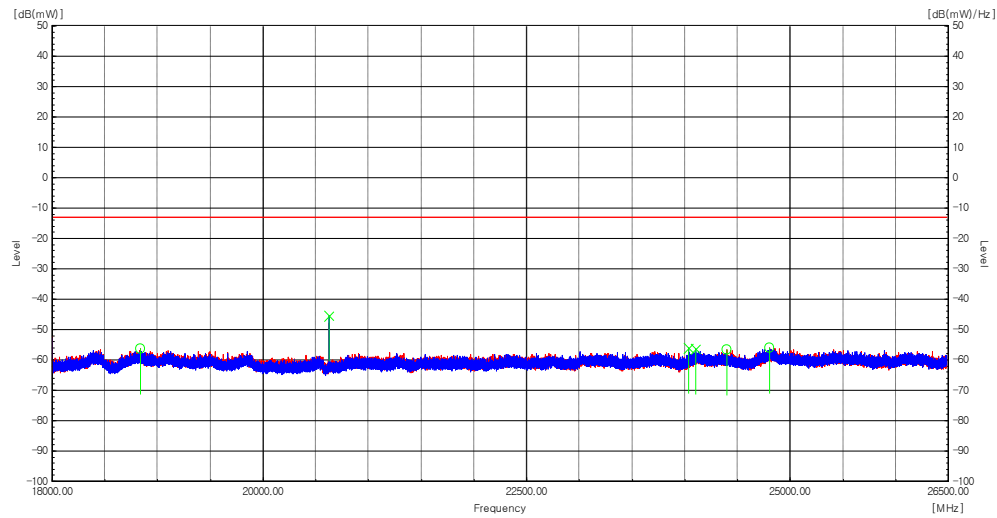
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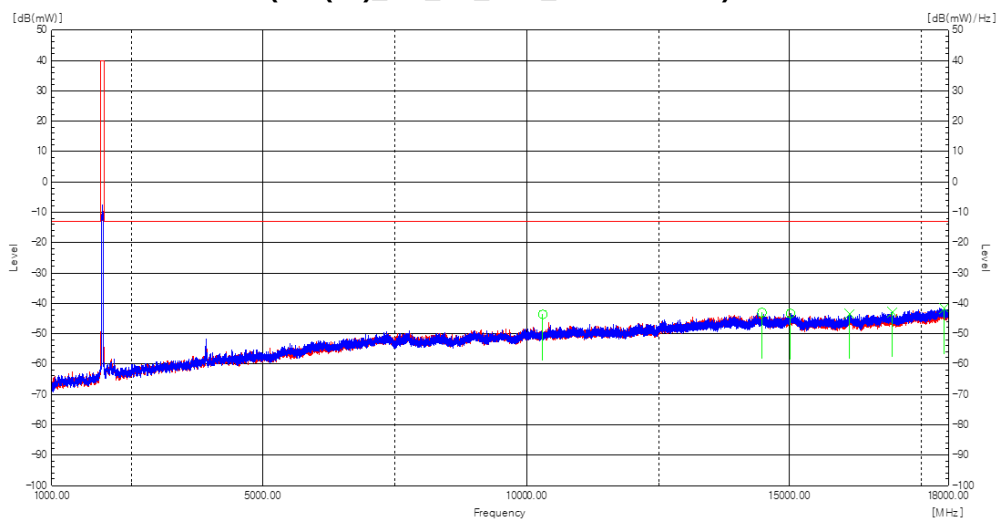
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**Plot 8-172. Radiated spurious emission Plot_1 GHz to 18 GHz
(n25(n2)_NR_1C_25M_Low Channel)**



**Plot 8-173. Radiated spurious emission Plot_18 GHz to 26.5 GHz
(n25(n2)_NR_1C_25M_Low Channel)**



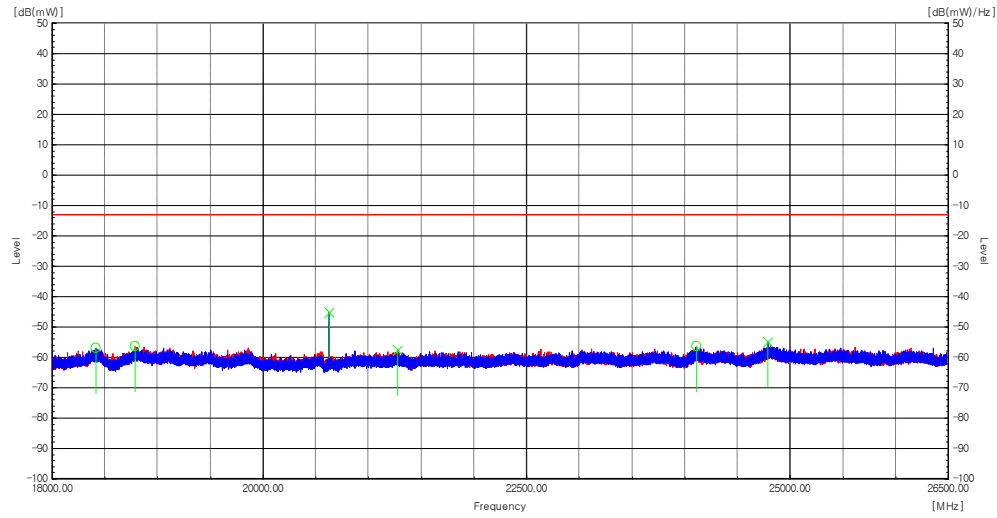
**Plot 8-174. Radiated spurious emission Plot_1 GHz to 18 GHz
(n25(n2)_NR_1C_25M_Mid Channel)**



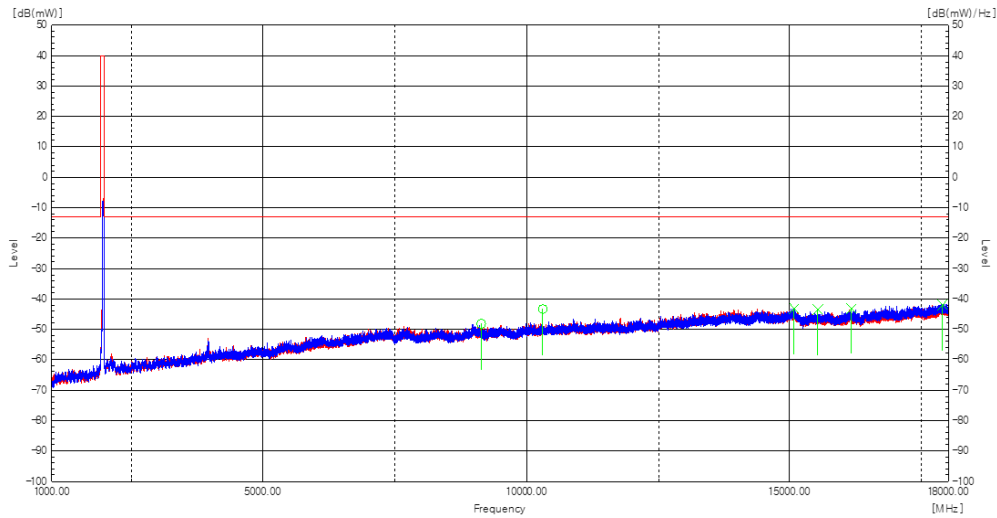
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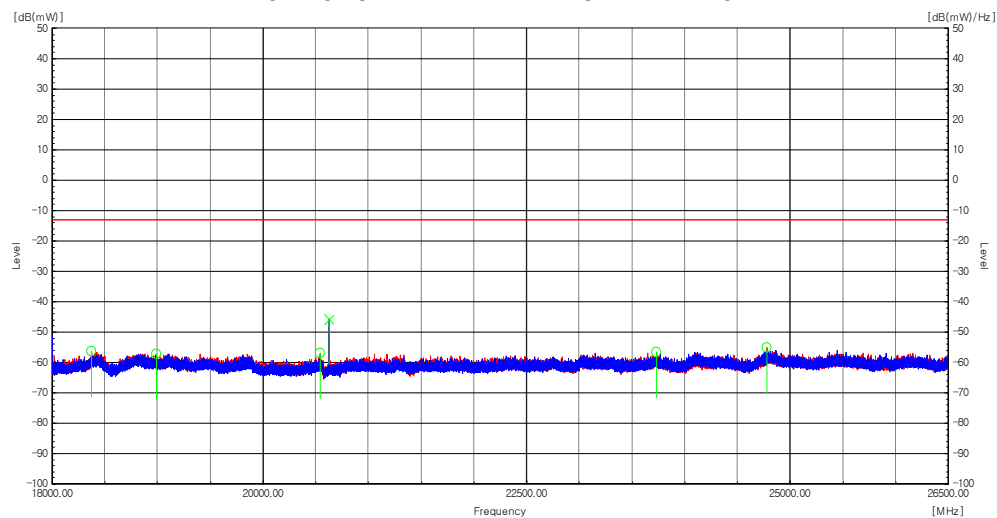
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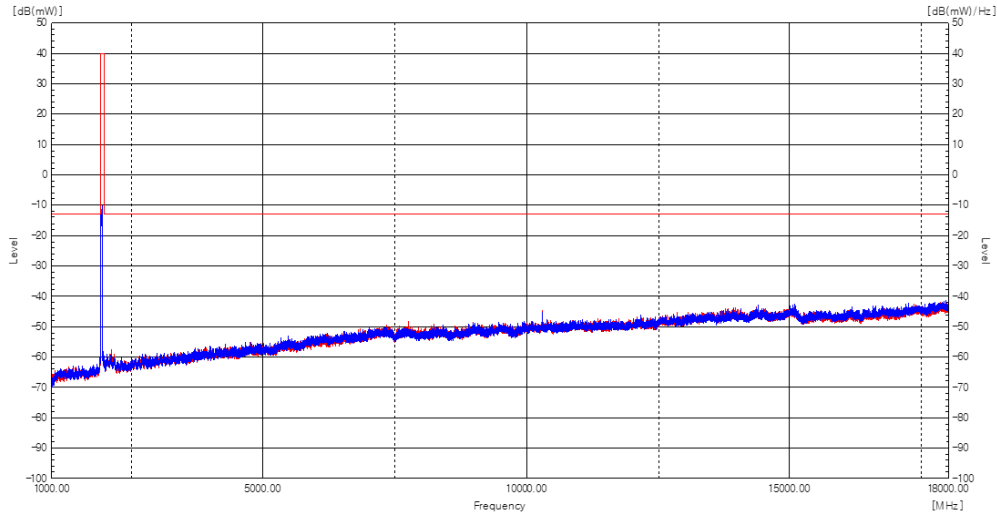
**Plot 8-175. Radiated spurious emission Plot_18 GHz to 26.5 GHz
(n25(n2)_NR_1C_25M_Mid Channel)**



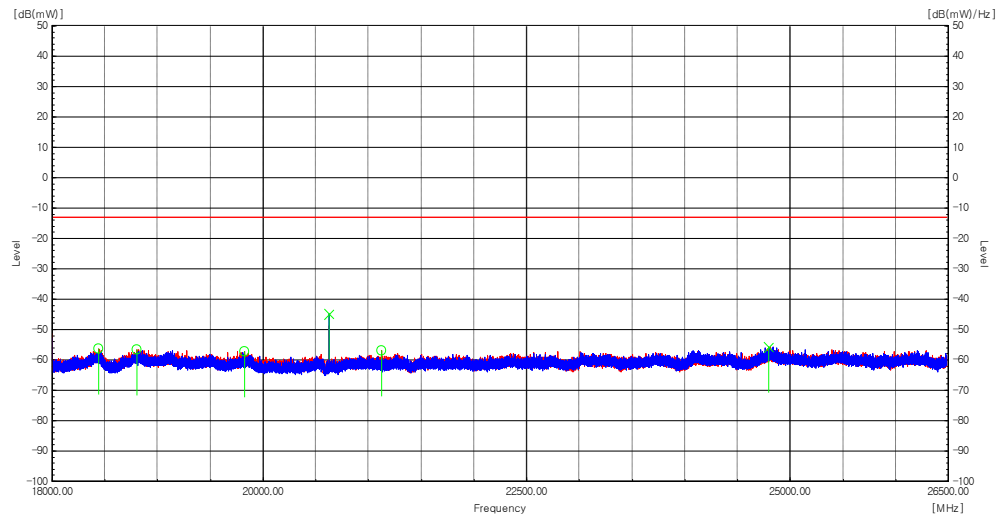
**Plot 8-176. Radiated spurious emission Plot_1 GHz to 18 GHz
(n25(n2)_NR_1C_25M_High Channel)**



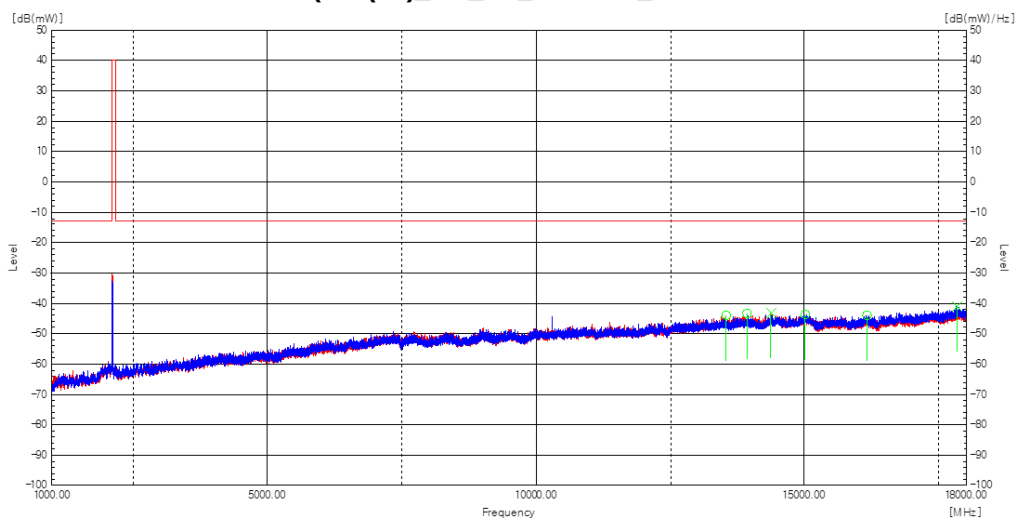
**Plot 8-177. Radiated spurious emission Plot_18 GHz to 26.5 GHz
(n25(n2)_NR_1C_25M_High Channel)**



**Plot 8-178. Radiated spurious emission Plot_1 GHz to 18 GHz
(n25(n2)_NR_2C_5M+25M_Low Channel)**



**Plot 8-179. Radiated spurious emission Plot_18 GHz to 26.5 GHz
(n25(n2)_NR_2C_5M+25M_Low)**



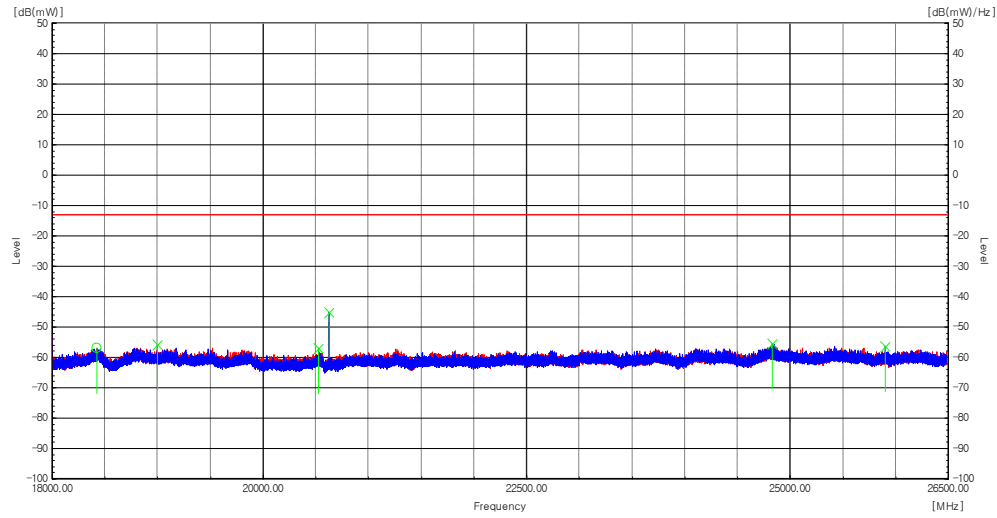
**Plot 8-180. Radiated spurious emission Plot_1 GHz to 18 GHz
(n66(n4)_NR_1C_25M_Low Channel)**



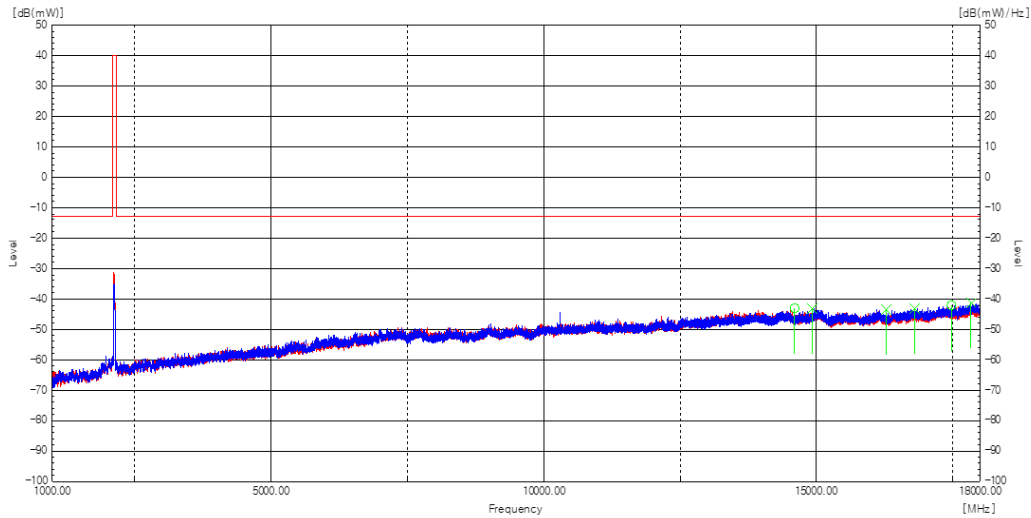
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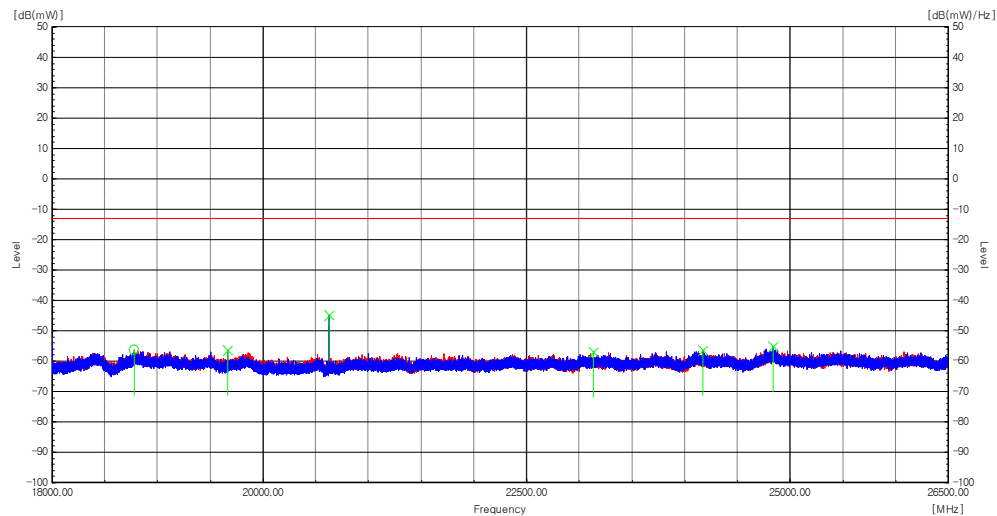
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**Plot 8-181. Radiated spurious emission Plot_18 GHz to 26.5 GHz
(n66(n4)_NR_1C_25M_Low Channel)**



**Plot 8-182. Radiated spurious emission Plot_1 GHz to 18 GHz
(n66(n4)_NR_1C_25M_Mid Channel)**



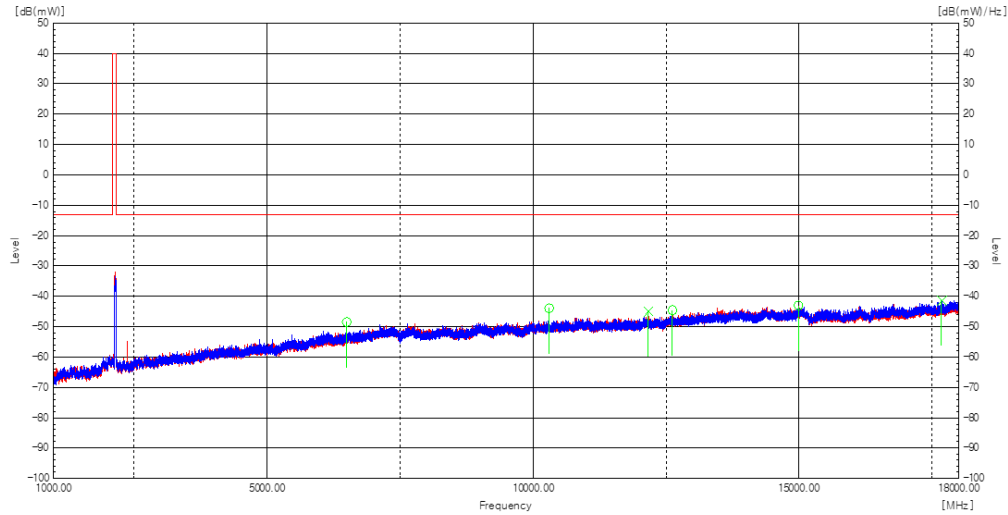
**Plot 8-183. Radiated spurious emission Plot_18 GHz to 26.5 GHz
(n66(n4)_NR_1C_25M_Mid Channel)**



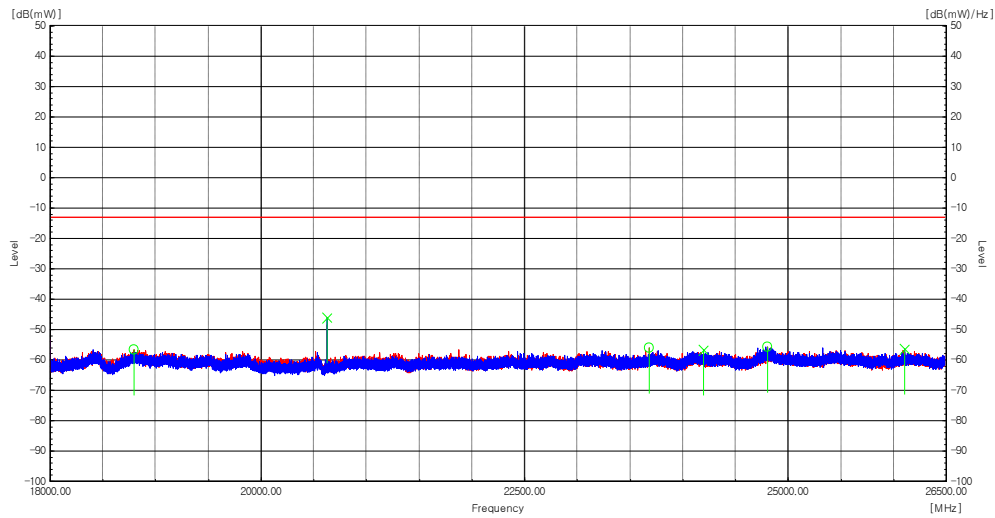
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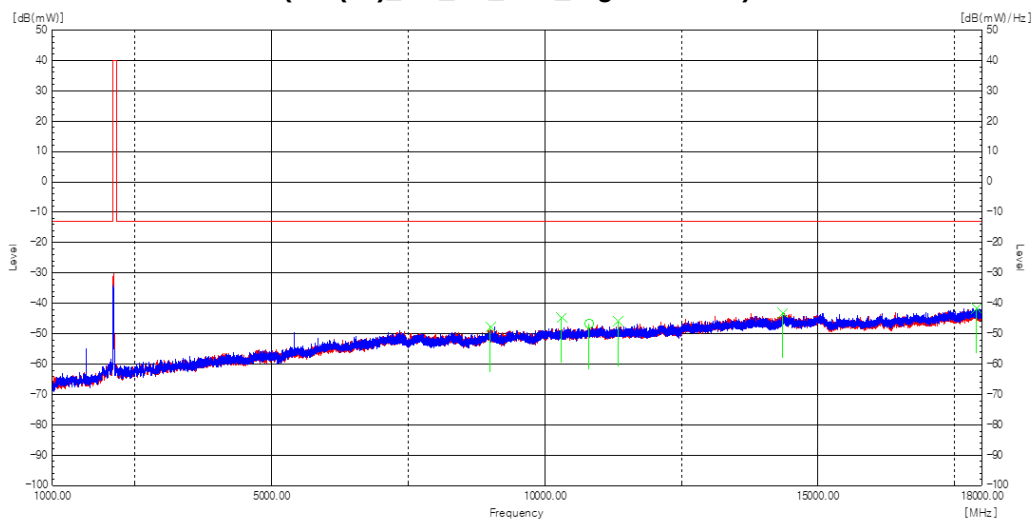
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**Plot 8-184. Radiated spurious emission Plot_1 GHz to 18 GHz
(n66(n4)_NR_1C_25M_High Channel)**



**Plot 8-185. Radiated spurious emission Plot_18 GHz to 26.5 GHz
(n66(n4)_NR_1C_25M_High Channel)**



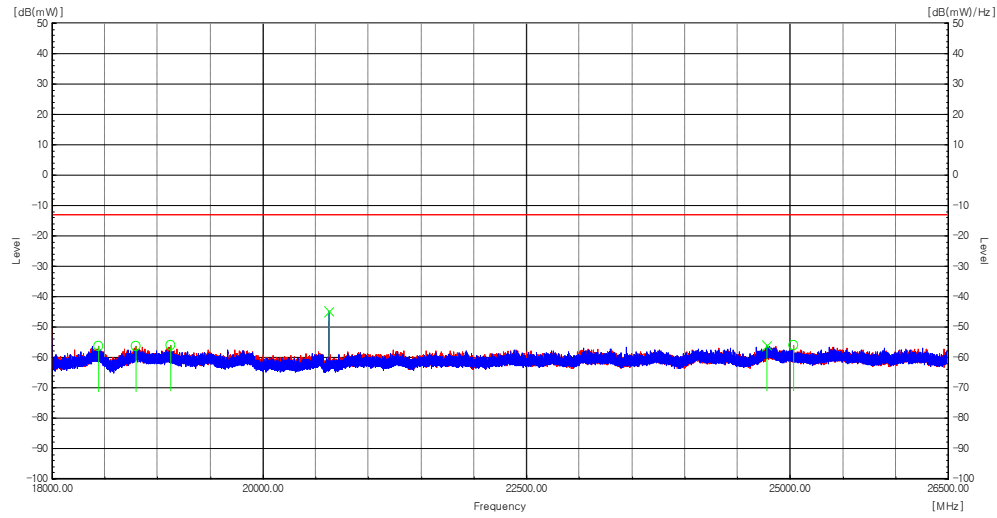
**Plot 8-186. Radiated spurious emission Plot_1 GHz to 18 GHz
(n66(n4)_NR_1C_30M_Low Channel)**



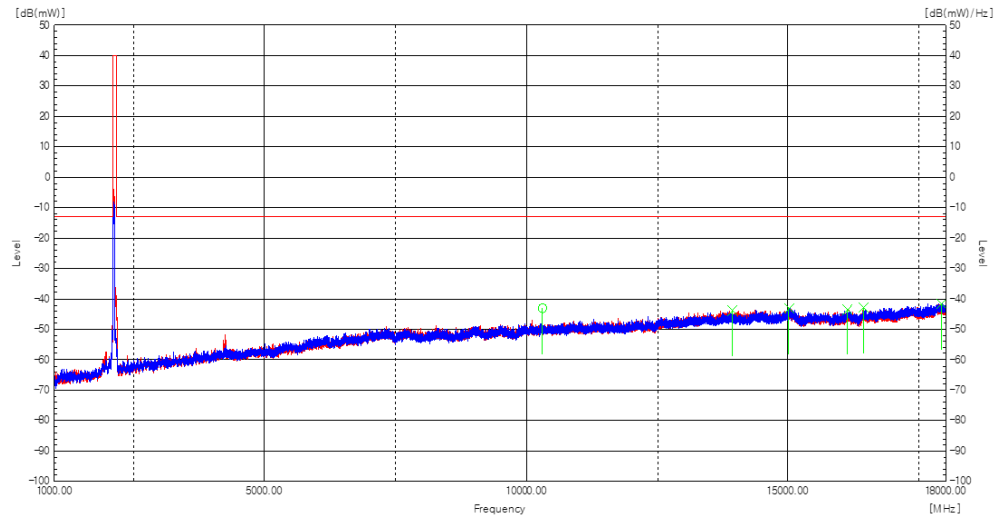
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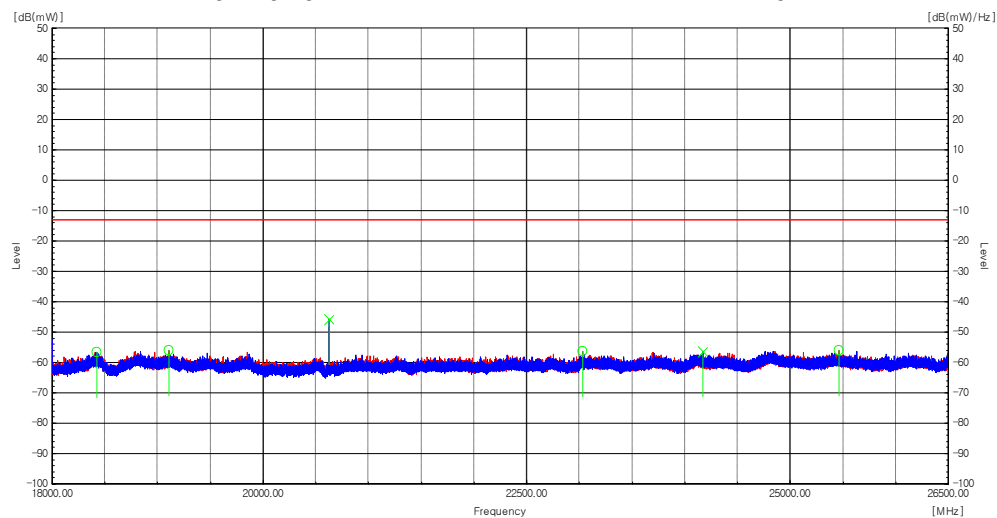
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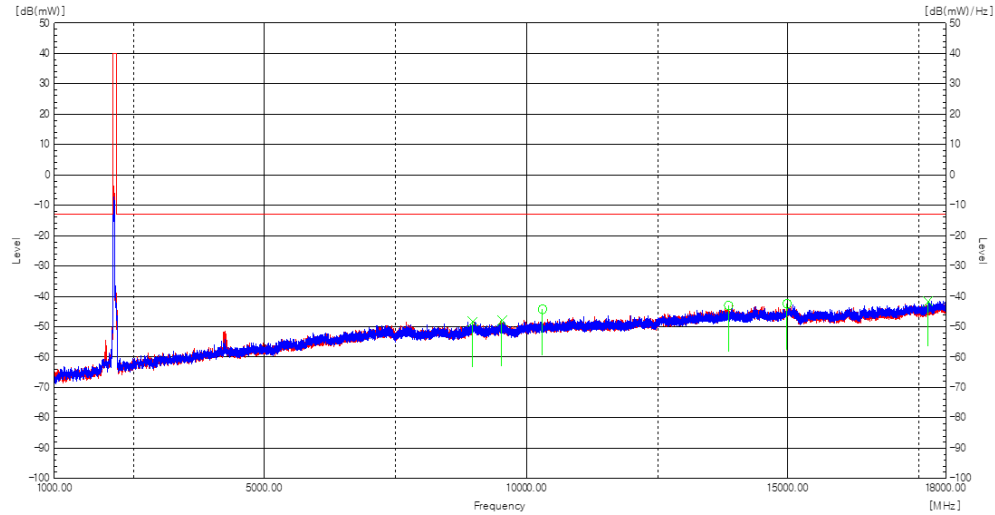
**Plot 8-187. Radiated spurious emission Plot_18 GHz to 26.5 GHz
(n66(n4)_NR_1C_30M_Low Channel)**



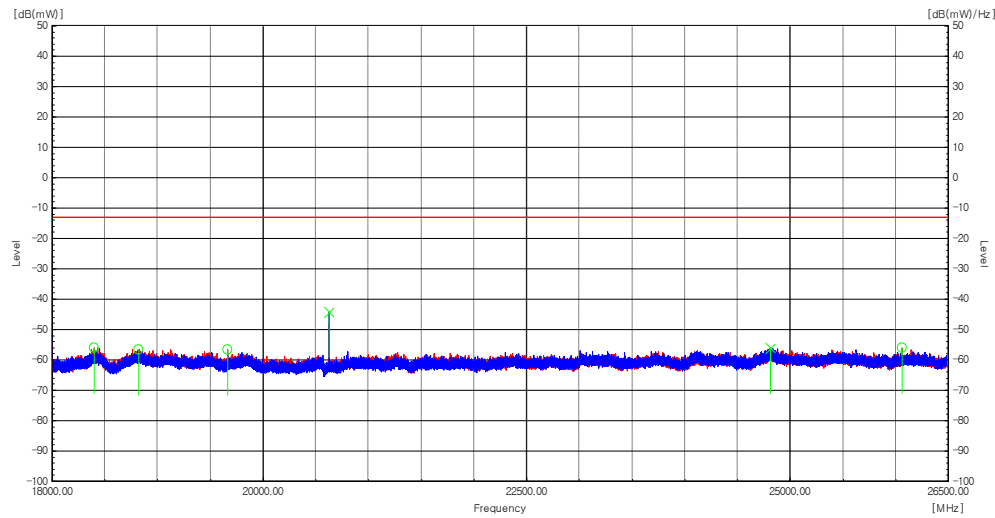
**Plot 8-188. Radiated spurious emission Plot_1 GHz to 18 GHz
(n66(n4)_NR_3C_5M+10M+25M_Mid Channel)**



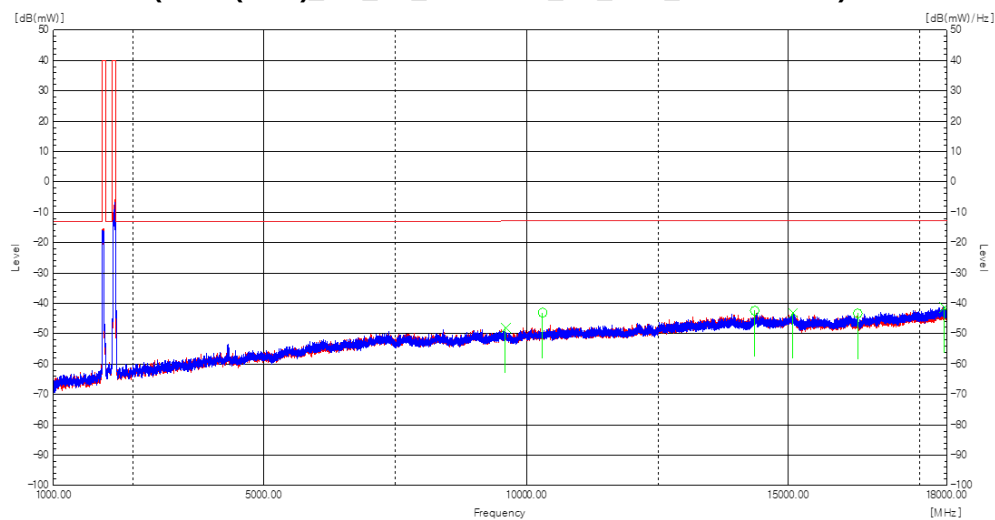
**Plot 8-189. Radiated spurious emission Plot_18 GHz to 26.5 GHz
(n66(n4)_NR_3C_5M+10M+25M_Mid Channel)**



**Plot 8-190. Radiated spurious emission Plot_1 GHz to 18 GHz
(B/n66(B/n4)_NR_1C_25M+DSS_1C_15M_Mid Channel)**



**Plot 8-191. Radiated spurious emission Plot_18 GHz to 26.5 GHz
(B/n66(B/n4)_NR_1C_25M+DSS_1C_15M_Mid Channel)**



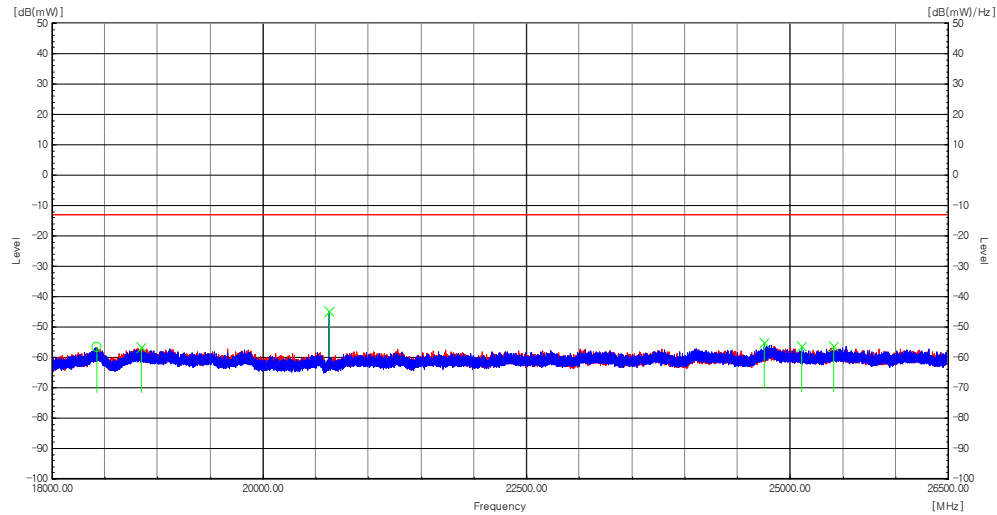
**Plot 8-192. Radiated spurious emission Plot_1 GHz to 18 GHz
(Multi-Band_n25(n2)_NR_2C_5M+25M+n66(n4)_NR_3C_5M+10M+25M_Mid Channel)**



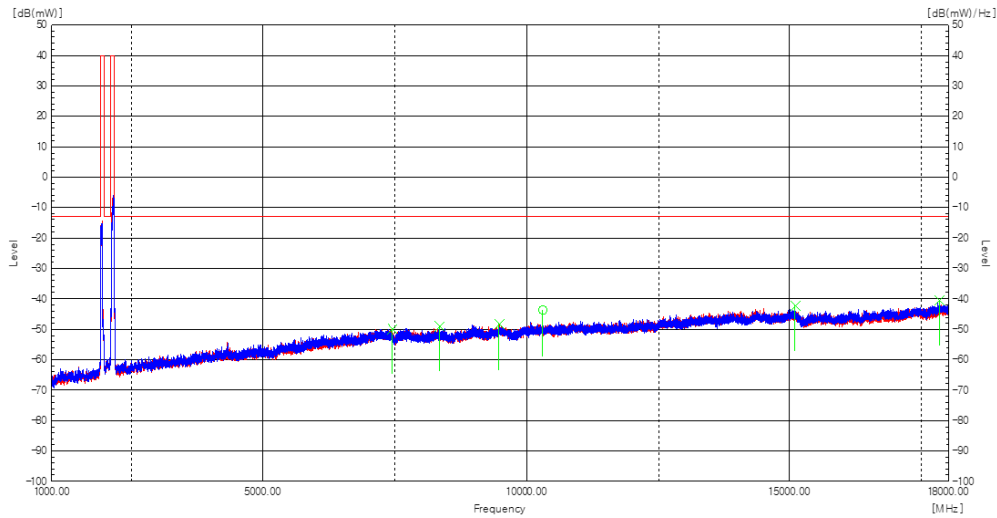
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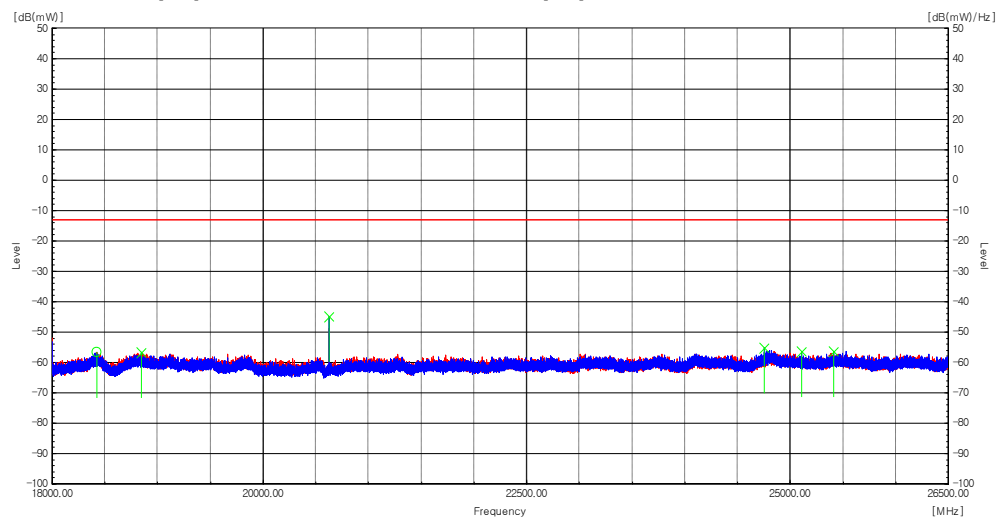
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Plot 8-193. Radiated spurious emission Plot_18 GHz to 26.5 GHz
(Multi-Band_n25(n2)_NR_2C_5M+25M+n66(n4)_NR_3C_5M+10M+25M_Mid Channel)



Plot 8-194. Radiated spurious emission Plot_1 GHz to 18 GHz
(Multi-Band_n25(n2)_NR_3C_5M+5M+20M+n66(n4)_NR_3C_5M+15M+20M_Mid Channel)



Plot 8-195. Radiated spurious emission Plot_18 GHz to 26.5 GHz
(Multi-Band_n25(n2)_NR_3C_5M+5M+20M+n66(n4)_NR_3C_5M+15M+20M_Mid Channel)

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Channel	Frequency [MHz]	Ant. Pol. [H/V]	Analyzer Level [dBm]	Path loss [dB]	RSE EIRP [dBm]	Limit [dBm/MHz]	Margin [dB]	Turntable azimuth [degree]
n25(n2)_NR _1C_25M_L ow	14362.57	V	-72.0	28.9	-43.1	-13.0	-30.1	195.4
	15008.57	H	-71.6	28.0	-43.6	-13.0	-30.6	79.2
	18832.43	H	-47.5	-8.8	-56.3	-13.0	-43.3	200.0
	20625.08	V	-35.4	-10.0	-45.4	-13.0	-32.4	279.6
n66(n4)_NR _1C_25M_hi gh	12164.47	V	-69.7	24.8	-44.9	-13.0	-31.9	116.4
	12630.27	H	-69.9	25.5	-44.4	-13.0	-31.4	13.7
	20543.2	H	-48.2	-8.7	-56.9	-13.0	-43.9	54.7
	20625.08	V	-35.8	-10.0	-45.8	-13.0	-32.8	278.9
n66(n4)_NR _3C_5M+10 M+25M_Low	14381.27	H	-72.5	29.1	-43.4	-13.0	-30.4	202.8
	15053.9	V	-71.1	28.2	-42.9	-13.0	-29.9	74.0
	19660.9	H	-46.9	-9.7	-56.6	-13.0	-43.6	273.1
	20625.08	V	-34.4	-10.0	-44.4	-13.0	-31.4	278.3
Multi-Band_ n25(n2)_NR _2C_5M+25 M+n66(n4) NR_3C_5M+ 10M+25M_M id	14383.53	H	-71.9	29.1	-42.8	-13.0	-29.8	224.6
	16170.23	V	-70.1	27.2	-42.9	-13.0	-29.9	150.3

Table 8-41. Radiated spurious emission above 1GHz Worst mode Summary Data

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9.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung RRU(RF4437d) FCC ID: A3LRF4437D-25C** complies with all of the requirements of Part 24, Part 27 of the FCC Rules.

10.0 APPENDIX. A

10.1 Conducted Average Output Power

Test Overview

A transmitter port of EUT is connected to the input of a signal analyzer. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Description

KDB 971168 D01 v03r01 – Section 5

KDB 662911 D01 v02r01 – Section E)1) In-Band Power Measurements

ANSI C63.26-2015 – Section 5.2.4.4.1

The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The spectrum analyzer settings were as follows:

1. Conducted power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 ~ 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Span = 2 ~ 3 x OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trigger Settings is set to "RF Power" for signals with non-continuous operation with the sweep times set to "auto". Refer test note 3 for details.
8. Trace mode = Trace-Averaging (RMS) set to average over 100 sweeps
9. The trace was allowed to stabilize

Test Setup

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

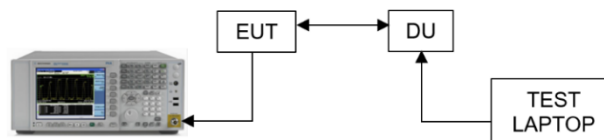


Figure 10-1. Test Instrument & Measurement Setup

Limit

N/A

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Note

1. Result for reference maximum output power of RF expose is under section 10.1.
2. MIMO Calculations are done considering output channel power for all ports and respective margins are calculated according to procedures in section 6.4 of ANSI C63.26 and section D of KDB 971168 D01 v03r01.
3. Consider the following factors for MIMO Power:
Conducted power for each port is measured in dBm.
Powers are summed up in linear using the measure-and-sum technique defined in KDB 971168 D01 v03r01- Section D.
Conducted power per port (dBm) is converted to a linear value (mW). A summation of linear powers for all ports gives us the total MIMO conducted power in milliWatts (mW).
4. Sample Calculation:
Let us assume the following numbers:
 - c) Total MIMO Conducted Power as 39666.64 mW
 - d) Antenna Gain = 12.50 dBi

Factors		Value	Unit
Summed MIMO Conducted Power (linear sum)		39666.64	mW
Summed MIMO Conducted Power (dBm)	$= 10 * \log (39666.64) =$	45.98	dBm
Antenna Gain		12.50	dBi
Total MIMO EIRP		58.48	dBm

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Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	0	39.90	40.23	40.15	40.24
	1	40.01	39.96	39.99	39.93
	2	39.84	39.67	39.63	39.61
	3	40.10	39.19	39.16	39.14
Total Conducted Power (mW)		39666.64	38018.99	37753.13	37752.93
Total Conducted Power (dBm)		45.98	45.80	45.77	45.77
Antenna Gain (dBi)		12.50	12.50	12.50	12.50
Total MIMO EIRP (dBm)		58.48	58.30	58.27	58.27
Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	0	40.00	39.98	39.95	39.77
	1	40.01	40.03	39.96	39.90
	2	40.00	40.03	40.00	40.01
	3	40.17	40.22	40.22	40.20
Total Conducted Power (mW)		40422.25	40612.31	40313.47	39750.89
Total Conducted Power (dBm)		46.07	46.09	46.05	45.99
Antenna Gain (dBi)		12.50	12.50	12.50	12.50
Total MIMO EIRP (dBm)		58.57	58.59	58.55	58.49
Channel	Port	QPSK	16QAM	64QAM	256QAM
High	0	39.87	39.92	40.01	39.97
	1	39.96	39.89	40.01	40.00
	2	40.02	40.03	40.07	40.02
	3	40.26	40.19	40.37	40.27
Total Conducted Power (mW)		40276.53	40083.89	41097.89	40618.75
Total Conducted Power (dBm)		46.05	46.03	46.14	46.09
Antenna Gain (dBi)		12.50	12.50	12.50	12.50
Total MIMO EIRP (dBm)		58.55	58.53	58.64	58.59

Table 10-1. Conducted Average Output Power Table (n25(n2)_NR_1C_25M)

Channel	Port	n25(n2)_NR_2C_5M+25M		B/n25(B/n2)_NR_1C_25M+LTE_1C_5M	
		QPSK	QAM	QPSK	QAM
Low	0	39.91	39.92	39.92	39.88
	1	39.95	39.97	40.00	39.94
	2	39.95	40.03	39.96	40.07
	3	40.30	40.28	40.27	40.27
Total Conducted Power (mW)		40281.15	40483.92	40367.23	40394.18
Total Conducted Power (dBm)		46.05	46.07	46.06	46.06
Antenna Gain (dBi)		12.50	12.50	12.50	12.50
Total MIMO EIRP (dBm)		58.55	58.57	58.56	58.56
Channel	Port	QPSK	16QAM	QPSK	QAM
Mid	0	39.95	39.96	39.03	39.94
	1	39.99	39.99	39.94	39.93
	2	40.03	40.08	40.07	40.02
	3	40.27	40.27	40.26	40.32
Total Conducted Power (mW)		40573.28	40712.66	38640.58	40513.72
Total Conducted Power (dBm)		46.08	46.10	45.87	46.08
Antenna Gain (dBi)		12.50	12.50	12.50	12.50
Total MIMO EIRP (dBm)		58.58	58.60	58.37	58.58
Channel	Port	QPSK	16QAM	QPSK	QAM
High	0	39.93	39.93	39.93	39.99
	1	39.96	39.98	40.01	40.00
	2	40.04	40.06	40.01	40.06
	3	40.25	40.33	40.29	40.25
Total Conducted Power (mW)		40433.50	40722.75	40576.76	40708.65
Total Conducted Power (dBm)		46.07	46.10	46.08	46.10
Antenna Gain (dBi)		12.50	12.50	12.50	12.50
Total MIMO EIRP (dBm)		58.57	58.60	58.58	58.60

Table 10-2. Conducted Average Output Power Table (n25(n2)_Multi-carrier operation)

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Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	0	40.11	39.95	40.01	39.96
	1	40.25	40.28	40.17	40.08
	2	40.15	40.08	40.16	40.13
	3	40.29	40.29	40.31	40.29
Total Conducted Power (mW)		41891.03	41427.95	41537.43	41088.64
Total Conducted Power (dBm)		46.22	46.17	46.18	46.14
Antenna Gain (dBi)		12.50	12.50	12.50	12.50
Total MIMO EIRP (dBm)		58.72	58.67	58.68	58.64
Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	0	40.14	40.09	40.21	40.11
	1	40.29	40.33	40.29	40.27
	2	40.11	40.20	40.15	40.16
	3	40.21	40.35	40.31	40.31
Total Conducted Power (mW)		41770.11	42309.42	42277.29	42013.13
Total Conducted Power (dBm)		46.21	46.26	46.26	46.23
Antenna Gain (dBi)		12.50	12.50	12.50	12.50
Total MIMO EIRP (dBm)		58.71	58.76	58.76	58.73
Channel	Port	QPSK	16QAM	64QAM	256QAM
High	0	40.17	39.99	40.12	40.11
	1	40.25	40.30	40.17	40.11
	2	40.25	40.14	40.16	40.14
	3	40.41	40.32	40.41	40.32
Total Conducted Power (mW)		42574.33	41784.46	42044.71	41605.30
Total Conducted Power (dBm)		46.29	46.21	46.24	46.19
Antenna Gain (dBi)		12.50	12.50	12.50	12.50
Total MIMO EIRP (dBm)		58.79	58.71	58.74	58.69

Table 10-3. Conducted Average Output Power Table (n66(n4)_NR_1C_25M)

Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	0	40.06	39.96	40.10	40.03
	1	40.12	40.18	40.13	40.22
	2	40.09	40.10	40.21	40.15
	3	40.29	40.24	40.35	40.33
Total Conducted Power (mW)		41319.22	41132.60	41871.48	41729.82
Total Conducted Power (dBm)		46.16	46.14	46.22	46.20
Antenna Gain (dBi)		12.50	12.50	12.50	12.50
Total MIMO EIRP (dBm)		58.66	58.64	58.72	58.70
Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	0	40.18	40.03	40.09	40.13
	1	40.31	40.16	40.22	40.29
	2	40.15	40.19	40.14	40.12
	3	40.28	40.27	40.28	40.26
Total Conducted Power (mW)		42180.45	41533.23	41722.59	41891.53
Total Conducted Power (dBm)		46.25	46.18	46.20	46.22
Antenna Gain (dBi)		12.50	12.50	12.50	12.50
Total MIMO EIRP (dBm)		58.75	58.68	58.70	58.72
Channel	Port	QPSK	16QAM	64QAM	256QAM
High	0	40.09	40.03	40.02	40.11
	1	40.27	40.21	40.22	40.18
	2	40.11	40.14	40.14	40.09
	3	40.25	40.30	40.32	40.28
Total Conducted Power (mW)		41699.88	41607.55	41658.04	41555.05
Total Conducted Power (dBm)		46.20	46.19	46.20	46.19
Antenna Gain (dBi)		12.50	12.50	12.50	12.50
Total MIMO EIRP (dBm)		58.70	58.69	58.70	58.69

Table 10-4. Conducted Average Output Power Table (n66(n4)_NR_1C_30M)

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Channel	Port	n66(n4)_NR_3C_5M+10M+25M		B/n66(B/n4)_NR_1C_25M+LTE_2C_10M+5M		B/n66(B/n4)_NR_1C_30M+LTE_2C_5M+5M	
		QPSK	QAM	QPSK	QAM	QPSK	QAM
Low	0	39.74	39.65	40.02	40.01	39.99	40.01
	1	39.76	39.79	40.24	40.23	40.20	40.13
	2	39.74	39.79	40.16	40.18	40.09	40.05
	3	39.86	39.83	40.27	40.36	40.23	40.23
Total Conducted Power (mW)		37982.94	37897.76	41631.05	41854.35	41201.55	40986.58
Total Conducted Power (dBm)		45.80	45.79	46.19	46.22	46.15	46.13
Antenna Gain (dBi)		12.50	12.50	12.50	12.50	12.50	12.50
Total MIMO EIRP (dBm)		58.30	58.29	58.69	58.72	58.65	58.63
Channel	Port	QPSK	16QAM	QPSK	QAM	QPSK	QAM
Mid	0	39.66	39.68	40.16	40.08	40.05	40.06
	1	39.76	39.75	40.26	40.16	40.19	40.20
	2	39.71	39.68	40.24	40.12	40.18	40.14
	3	39.84	39.84	40.45	40.34	40.28	40.28
Total Conducted Power (mW)		37701.70	37658.23	42652.16	41655.70	41652.13	41603.97
Total Conducted Power (dBm)		45.76	45.76	46.30	46.20	46.20	46.19
Antenna Gain (dBi)		12.50	12.50	12.50	12.50	12.50	12.50
Total MIMO EIRP (dBm)		58.26	58.26	58.80	58.70	58.70	58.69
Channel	Port	QPSK	16QAM	QPSK	QAM	QPSK	QAM
High	0	39.60	39.62	40.05	40.09	40.05	40.01
	1	39.73	39.73	40.22	40.19	40.11	40.11
	2	39.64	39.69	40.12	40.13	40.11	40.12
	3	39.86	39.87	40.39	40.27	40.32	40.30
Total Conducted Power (mW)		37404.62	37575.62	41855.14	41601.89	41393.49	41274.93
Total Conducted Power (dBm)		45.73	45.75	46.22	46.19	46.17	46.16
Antenna Gain (dBi)		12.50	12.50	12.50	12.50	12.50	12.50
Total MIMO EIRP (dBm)		58.23	58.25	58.72	58.69	58.67	58.66

Table 10-5. Conducted Average Output Power Table (B/n66(B/n4)_ Multi-carrier operation)

Channel	Port	B/n66(B/n4)_NR_1C_25M+DSS_1C_15M		B/n66(B/n4)_NR_1C_30M+DSS_1C_10M		B/n66(B/n4)_NR_1C_25M+DSS_1C_10M+LTE_1C_5M	
		QPSK	QAM	QPSK	QAM	QPSK	QAM
Low	0	40.03	39.96	40.06	40.09	39.61	39.58
	1	40.10	40.06	40.27	40.12	39.68	39.62
	2	40.03	40.09	40.21	40.22	39.67	39.72
	3	40.20	40.22	40.33	40.35	39.80	39.84
Total Conducted Power (mW)		40842.85	40776.45	42065.44	41848.45	37249.02	37254.32
Total Conducted Power (dBm)		46.11	46.10	46.24	46.22	45.71	45.71
Antenna Gain (dBi)		12.50	12.50	12.50	12.50	12.50	12.50
Total MIMO EIRP (dBm)		58.61	58.60	58.74	58.72	58.21	58.21
Channel	Port	QPSK	16QAM	QPSK	QAM	QPSK	QAM
Mid	0	40.10	40.18	40.13	40.16	39.58	39.69
	1	40.19	40.20	40.27	40.29	39.67	39.71
	2	40.07	40.13	40.19	40.19	39.65	39.67
	3	40.34	40.32	40.38	40.29	39.83	39.94
Total Conducted Power (mW)		41656.96	41962.97	42306.90	42203.58	37188.34	37796.23
Total Conducted Power (dBm)		46.20	46.23	46.26	46.25	45.70	45.77
Antenna Gain (dBi)		12.50	12.50	12.50	12.50	12.50	12.50
Total MIMO EIRP (dBm)		58.70	58.73	58.76	58.75	58.20	58.27
Channel	Port	QPSK	16QAM	QPSK	QAM	QPSK	QAM
High	0	40.04	40.03	40.01	40.09	39.60	39.68
	1	40.21	40.13	40.18	40.15	39.65	39.88
	2	40.23	40.13	40.14	40.20	39.63	39.57
	3	40.29	40.35	40.30	40.26	39.89	39.94
Total Conducted Power (mW)		41822.37	41516.31	41489.03	41649.06	37279.05	37937.26
Total Conducted Power (dBm)		46.21	46.18	46.18	46.20	45.71	45.79
Antenna Gain (dBi)		12.50	12.50	12.50	12.50	12.50	12.50
Total MIMO EIRP (dBm)		58.71	58.68	58.68	58.70	58.21	58.29

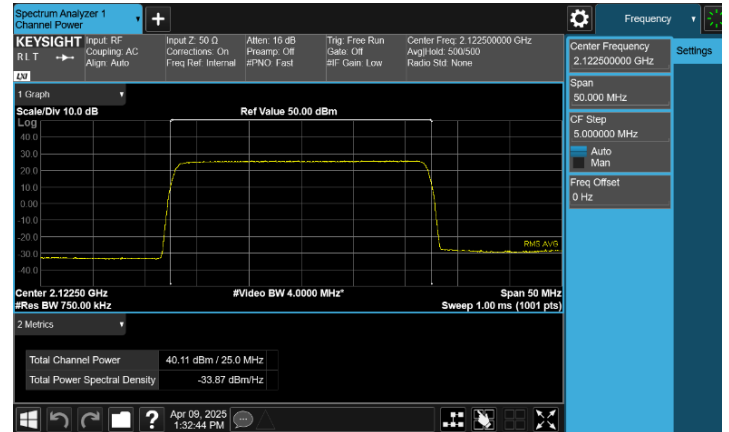
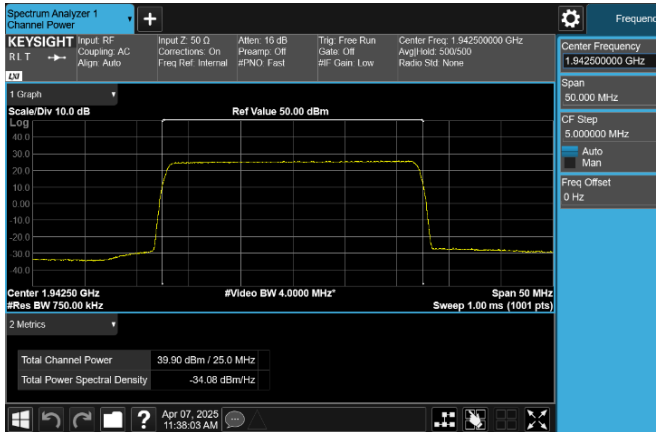
Table 10-6. Conducted Average Output Power Table (B/n66(B/n4)_ Multi-carrier operation)



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