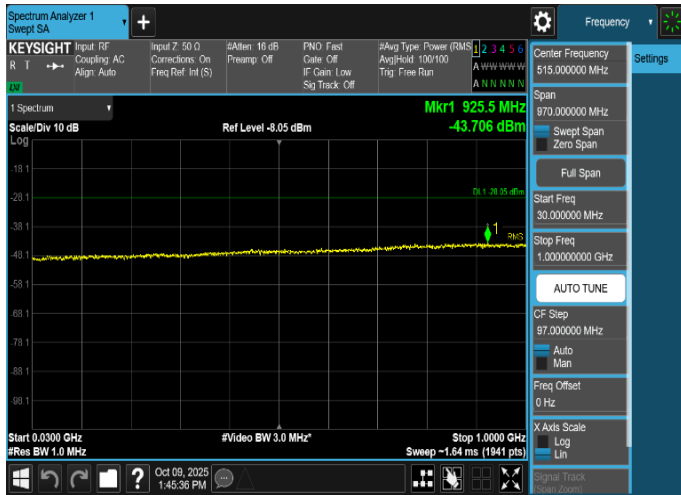




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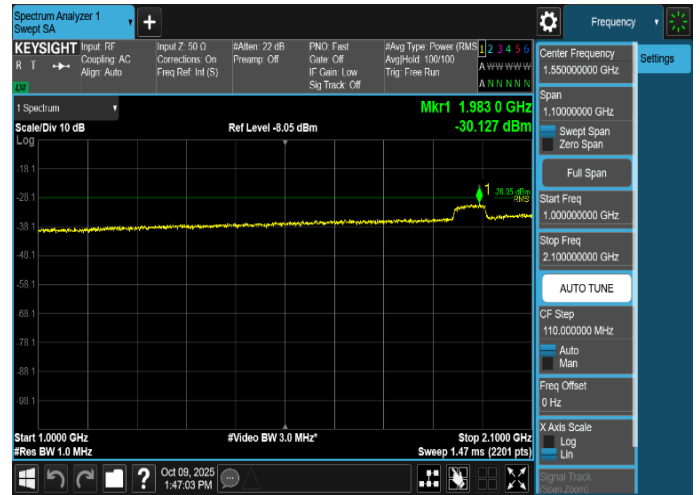
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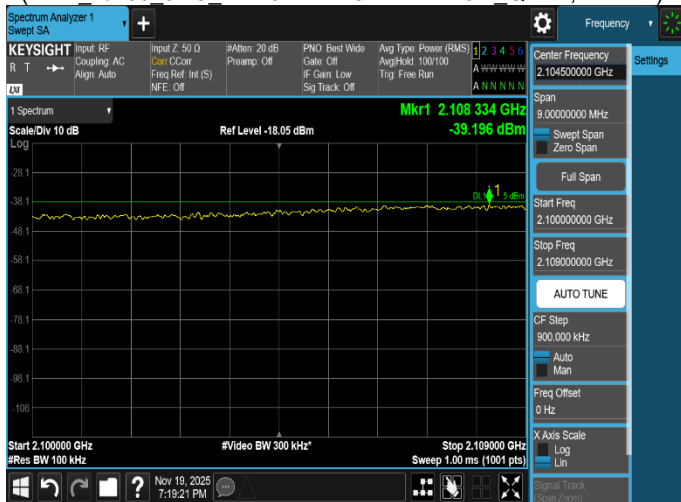
Plot 8-544. Conducted Spurious Emission Plot
30 MHz to 1 GHz

(MSR_B/n66_3NC_LTE 5M+NR 5M+DSS 10M_QPSK, Port 12)



Plot 8-545. Conducted Spurious Emission Plot
1 GHz to 2.1 GHz

(MSR_B/n66_3NC_LTE 5M+NR 5M+DSS 10M_QPSK, Port 12)



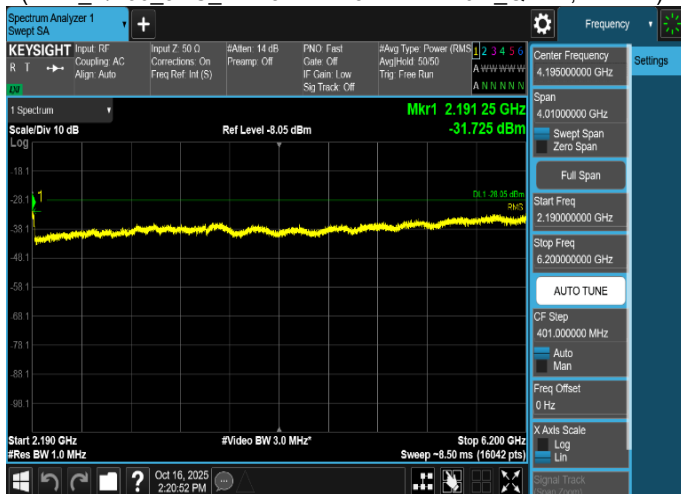
Plot 8-546. Conducted Spurious Emission Plot
2.1 GHz to 2.109 GHz

(MSR_B/n66_3NC_LTE 5M+NR 5M+DSS 10M_QPSK, Port 12)



Plot 8-547. Conducted Spurious Emission Plot
2.181 GHz to 2.19 GHz

(MSR_B/n66_3NC_LTE 5M+NR 5M+DSS 10M_QPSK, Port 12)



Plot 8-548. Conducted Spurious Emission Plot
2.19 GHz to 6.2 GHz

(MSR_B/n66_3NC_LTE 5M+NR 5M+DSS 10M_QPSK, Port 12)



Plot 8-549. Conducted Spurious Emission Plot
6.2 GHz to 18 GHz

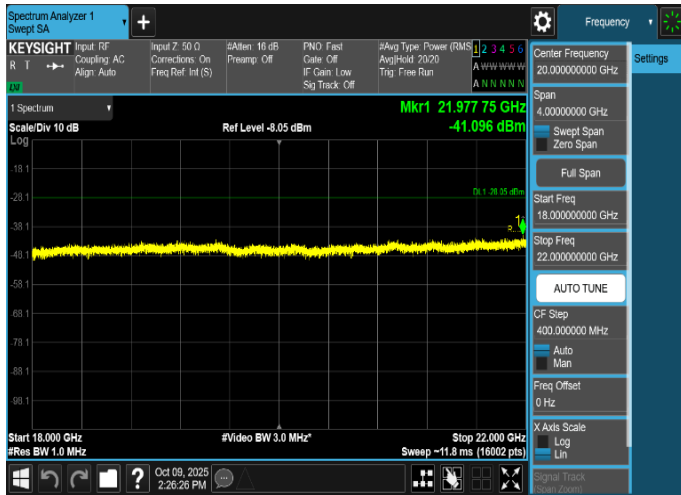
(MSR_B/n66_3NC_LTE 5M+NR 5M+DSS 10M_QPSK, Port 12)



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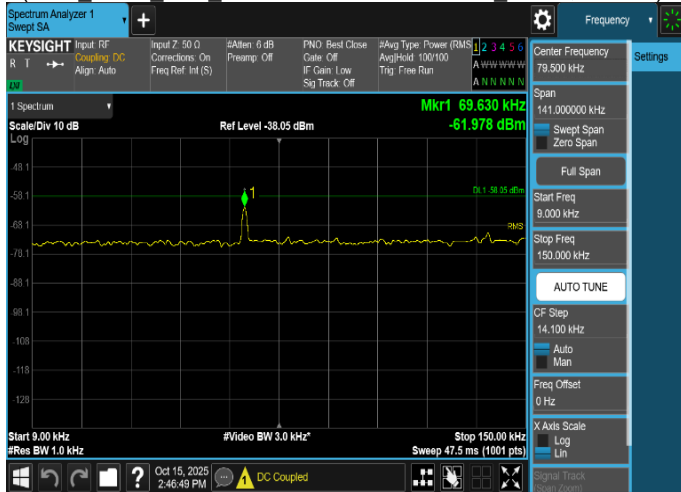
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Plot 8-550. Conducted Spurious Emission Plot
18 GHz to 22 GHz

(MSR_B/n66_3NC_LTE 5M+NR 5M+DSS 10M_QPSK, Port 12)



Plot 8-551. Conducted Spurious Emission Plot
9 kHz to 150 kHz

(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M+
MSR_B/n66_3C_LTE 20M+NR 20M+DSS 20M_QPSK, Port 1)



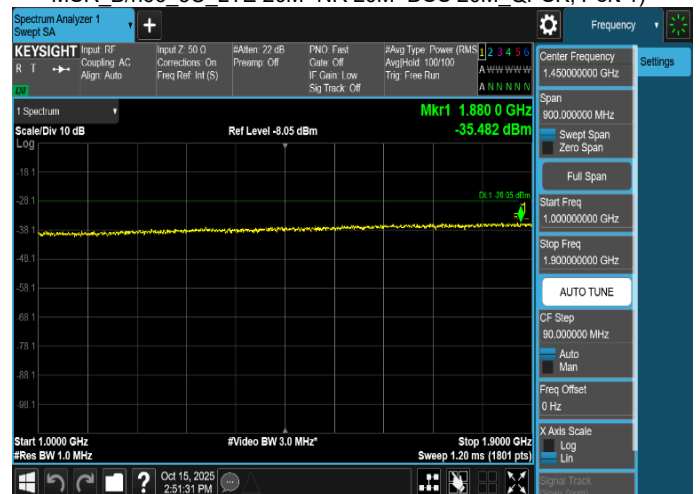
Plot 8-553. Conducted Spurious Emission Plot
30 MHz to 1 GHz

(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M+
MSR_B/n66_3C_LTE 20M+NR 20M+DSS 20M_QPSK, Port 1)



Plot 8-552. Conducted Spurious Emission Plot
150 kHz to 30 MHz

(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M+
MSR_B/n66_3C_LTE 20M+NR 20M+DSS 20M_QPSK, Port 1)



Plot 8-554. Conducted Spurious Emission Plot
1 GHz to 1.9 GHz

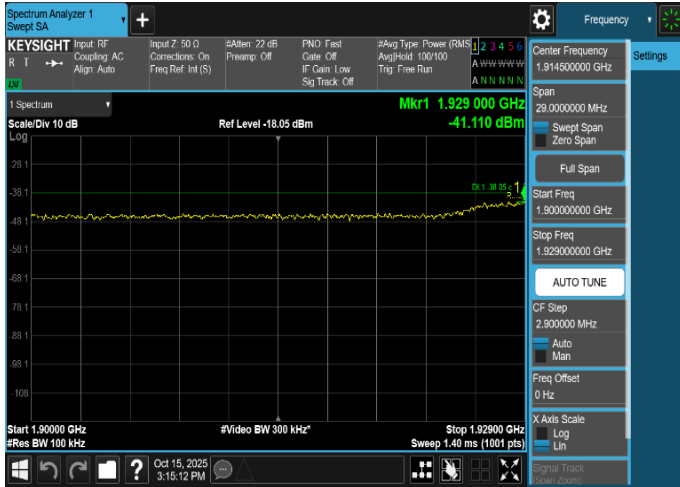
(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M+
MSR_B/n66_3C_LTE 20M+NR 20M+DSS 20M_QPSK, Port 1)



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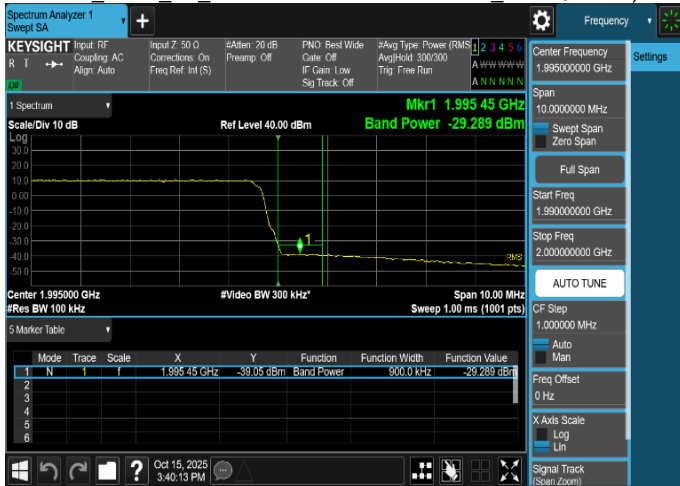
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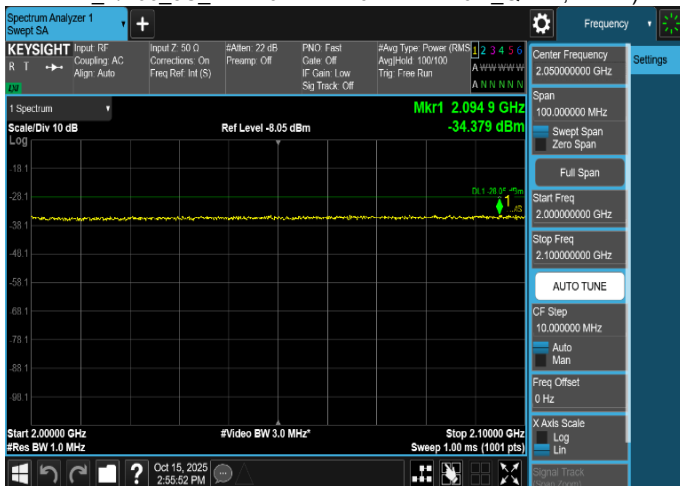
Plot 8-555. Conducted Spurious Emission Plot
1.9 GHz to 1.929 GHz

(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M+
MSR_B/n66_3C_LTE 20M+NR 20M+DSS 20M_QPSK, Port 1)



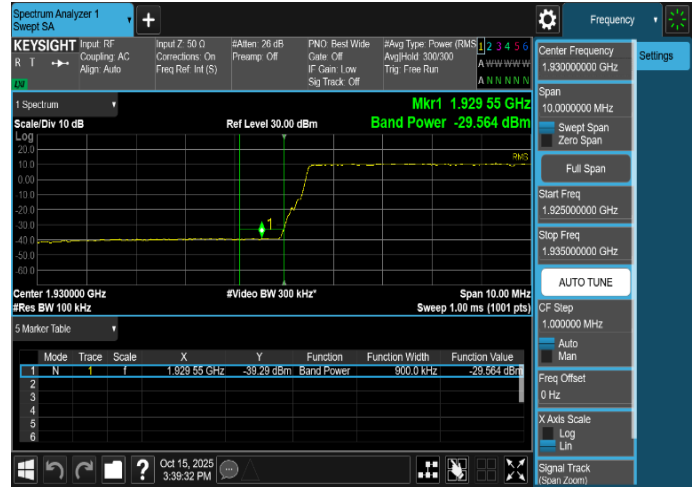
Plot 8-557. Conducted Spurious Emission Plot
1.995 GHz to 1.996 GHz

(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M+
MSR_B/n66_3C_LTE 20M+NR 20M+DSS 20M_QPSK, Port 1)



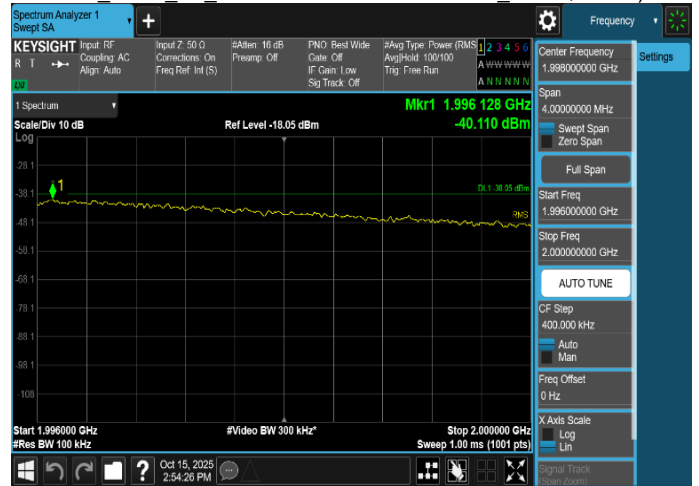
Plot 8-559. Conducted Spurious Emission Plot
2 GHz to 2.1 GHz

(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M+
MSR_B/n66_3C_LTE 20M+NR 20M+DSS 20M_QPSK, Port 1)



Plot 8-556. Conducted Spurious Emission Plot
1.929 GHz to 1.930 GHz

(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M+
MSR_B/n66_3C_LTE 20M+NR 20M+DSS 20M_QPSK, Port 1)



Plot 8-558. Conducted Spurious Emission Plot
1.996 GHz to 2 GHz

(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M+
MSR_B/n66_3C_LTE 20M+NR 20M+DSS 20M_QPSK, Port 1)



Plot 8-560. Conducted Spurious Emission Plot
2.1 GHz to 2.109 GHz

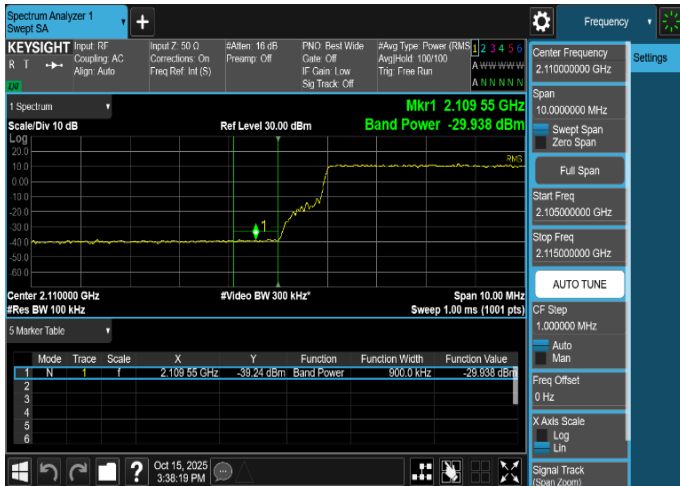
(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M+
MSR_B/n66_3C_LTE 20M+NR 20M+DSS 20M_QPSK, Port 1)



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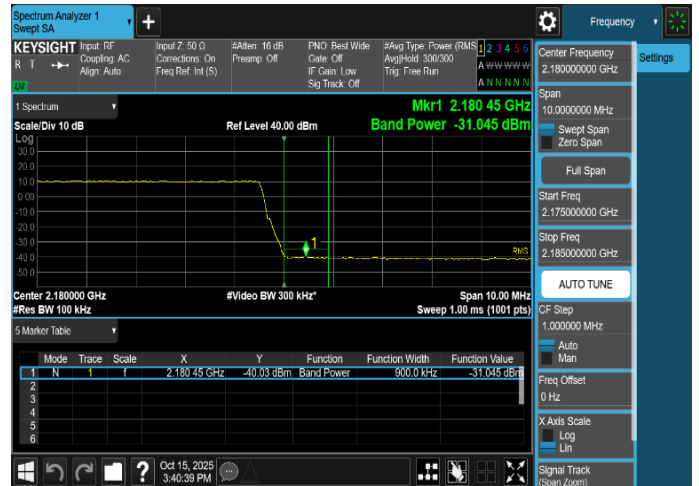
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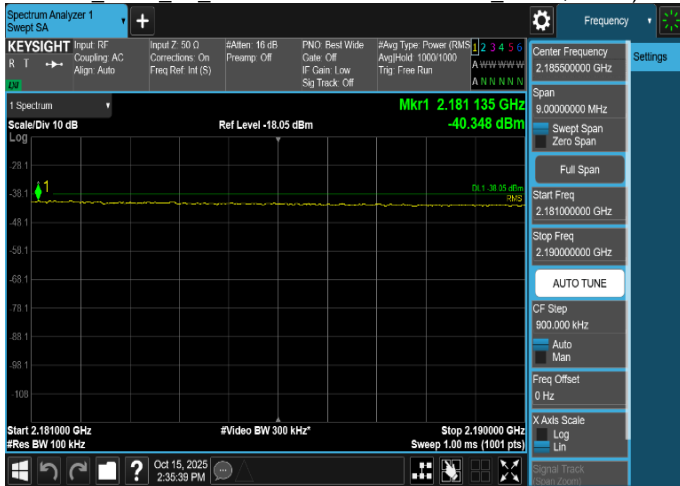
Plot 8-561. Conducted Spurious Emission Plot
2.109 GHz to 2.110 GHz

(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M+
MSR_B/n66_3C_LTE 20M+NR 20M+DSS 20M_QPSK, Port 1)



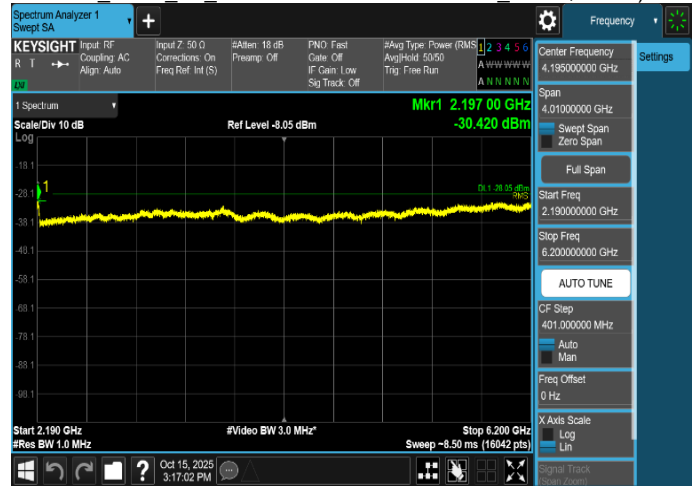
Plot 8-562. Conducted Spurious Emission Plot
2.180 GHz to 2.181 GHz

(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M+
MSR_B/n66_3C_LTE 20M+NR 20M+DSS 20M_QPSK, Port 1)



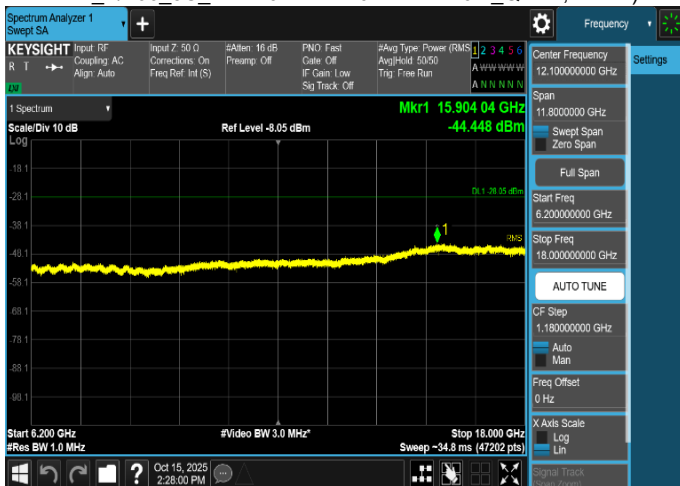
Plot 8-563. Conducted Spurious Emission Plot
2.181 GHz to 2.19 GHz

(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M+
MSR_B/n66_3C_LTE 20M+NR 20M+DSS 20M_QPSK, Port 1)



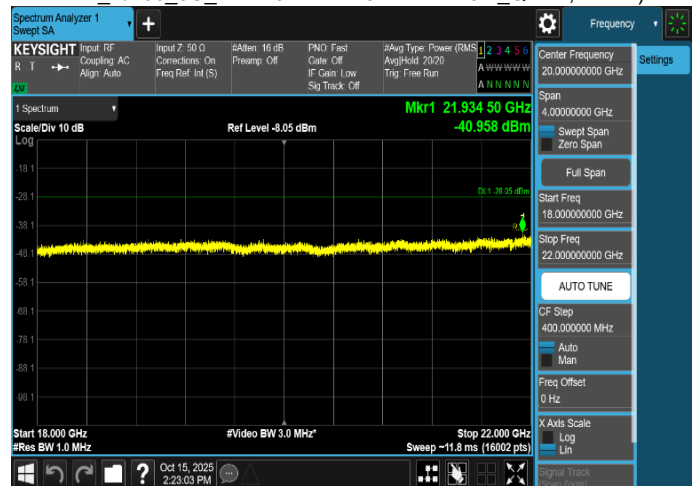
Plot 8-564. Conducted Spurious Emission Plot
2.19 GHz to 6.2 GHz

(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M+
MSR_B/n66_3C_LTE 20M+NR 20M+DSS 20M_QPSK, Port 1)



Plot 8-565. Conducted Spurious Emission Plot
6.2 GHz to 18 GHz

(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M+
MSR_B/n66_3C_LTE 20M+NR 20M+DSS 20M_QPSK, Port 1)



Plot 8-566. Conducted Spurious Emission Plot
18 GHz to 22 GHz

(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M+
MSR_B/n66_3C_LTE 20M+NR 20M+DSS 20M_QPSK, Port 1)

8.7 Frequency Stability

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of KDB 971168 D01 v03r01. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to $+50^{\circ}\text{C}$ in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for DC powered equipment.

Test Description

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.

Frequency measurements are made -30°C to $+50^{\circ}\text{C}$ in 10°C increments. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Limit

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

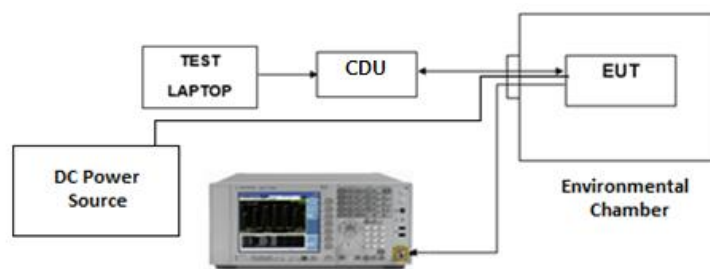


Figure 8-6. Test Instrument & Measurement Setup

Test Notes

None.

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OPERATING FREQUENCY: 1,962,500,000_Hz
REFERENCE VOLTAGE: 48.00_VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	48.0	- 30	1,962,500,010	6.86	0.0000003
100 %		- 20	1,962,500,014	10.93	0.0000006
100 %		- 10	1,962,500,012	8.78	0.0000004
100 %		0	1,962,500,013	9.60	0.0000005
100 %		+ 10	1,962,500,013	9.50	0.0000005
100 %		+ 20(Ref)	1,962,500,003	0.00	0.0000000
100 %		+ 30	1,962,500,015	11.57	0.0000006
100 %		+ 40	1,962,500,010	6.90	0.0000004
100 %		+ 50	1,962,500,007	3.60	0.0000002
85 %	40.8	+ 20	1,962,500,014	10.97	0.0000006
115 %	55.2	+ 20	1,962,500,012	9.11	0.0000005

Table 8-169. Frequency Stability Summary Data (LTE_B25_1C_5M)

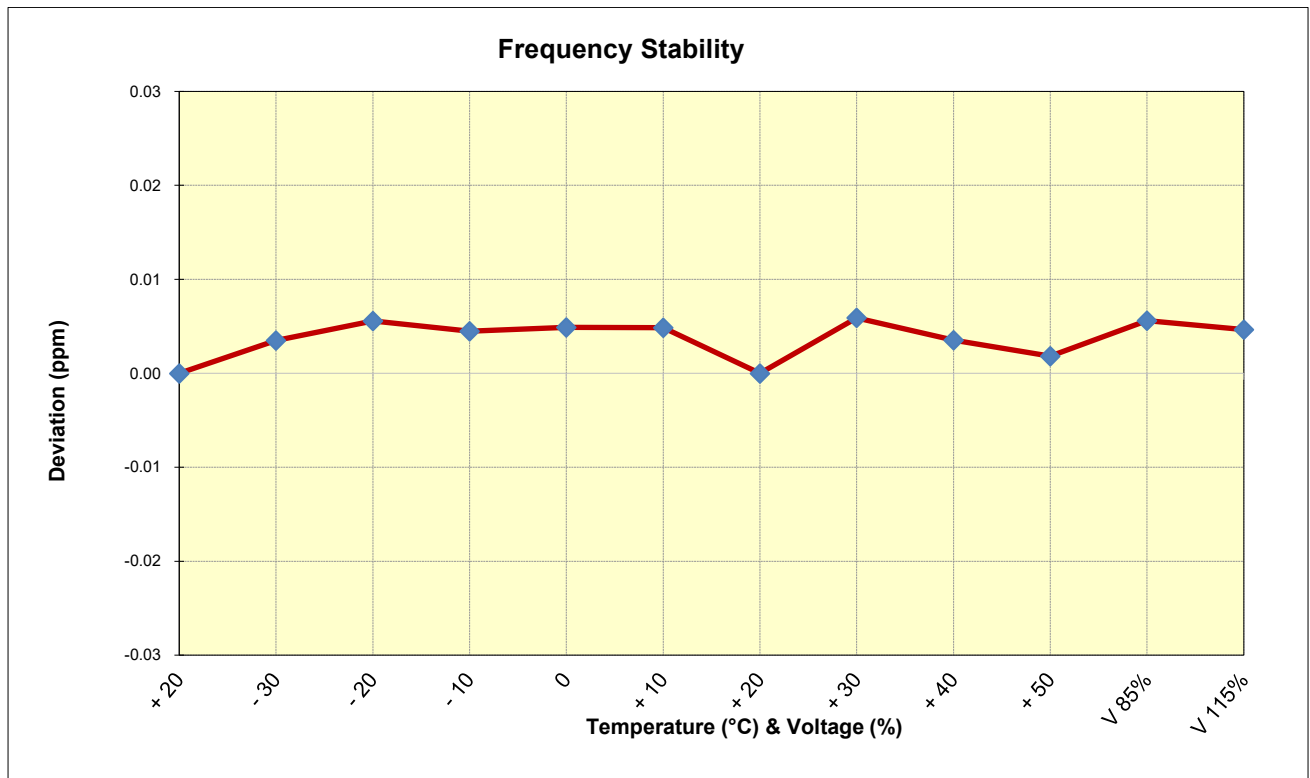


Figure 8-7. Frequency Stability Graph (LTE_B25_1C_5M)

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OPERATING FREQUENCY: 2,145,000,000_Hz
REFERENCE VOLTAGE: 48.00_VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	48.0	- 30	2,145,000,011	7.69	0.0000004
100 %		- 20	2,145,000,006	2.68	0.0000001
100 %		- 10	2,145,000,017	13.41	0.0000006
100 %		0	2,145,000,011	8.05	0.0000004
100 %		+ 10	2,145,000,008	4.43	0.0000002
100 %		+ 20(Ref)	2,145,000,003	0.00	0.0000000
100 %		+ 30	2,145,000,010	6.45	0.0000003
100 %		+ 40	2,145,000,008	4.80	0.0000002
100 %		+ 50	2,145,000,013	9.77	0.0000005
85 %	40.8	+ 20	2,145,000,010	6.75	0.0000003
115 %	55.2	+ 20	2,145,000,011	7.66	0.0000004

Table 8-170. Frequency Stability Summary Data (LTE_B66_1C_5M)

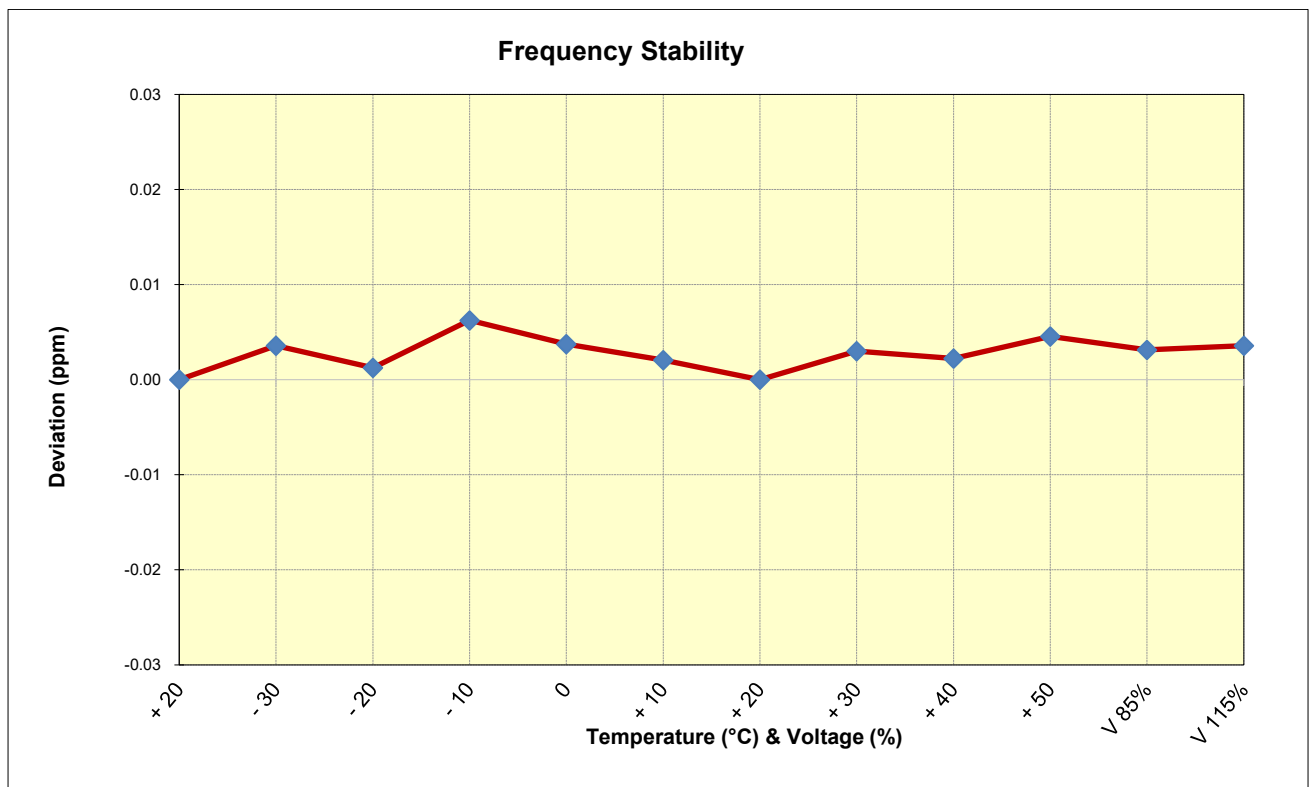


Figure 8-8. Frequency Stability Graph (LTE_B66_1C_5M)

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8.8 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

§ 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.

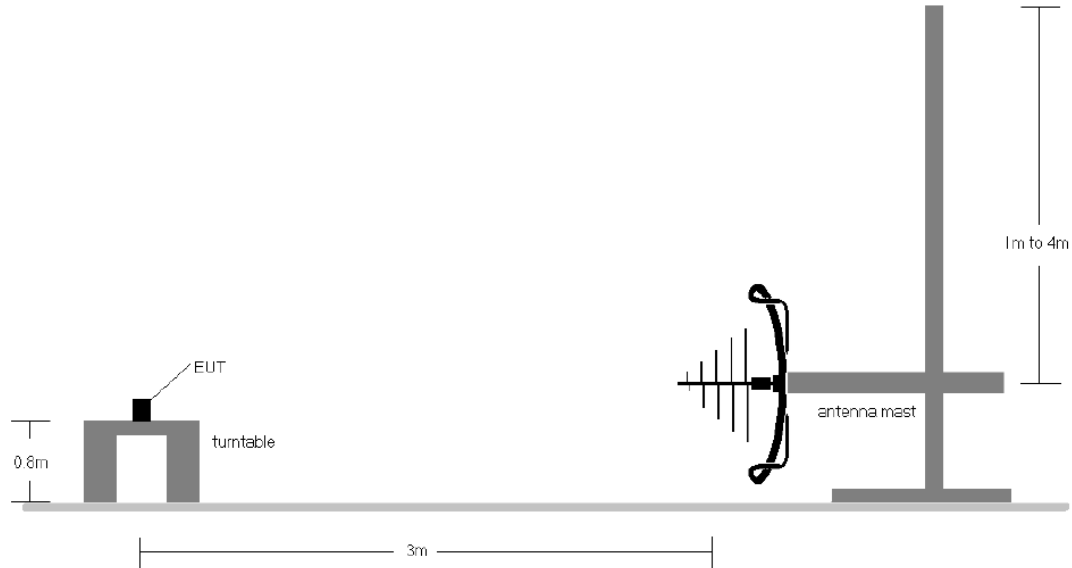


Figure 8-9. Test Instrument & Measurement Setup < 1 GHz

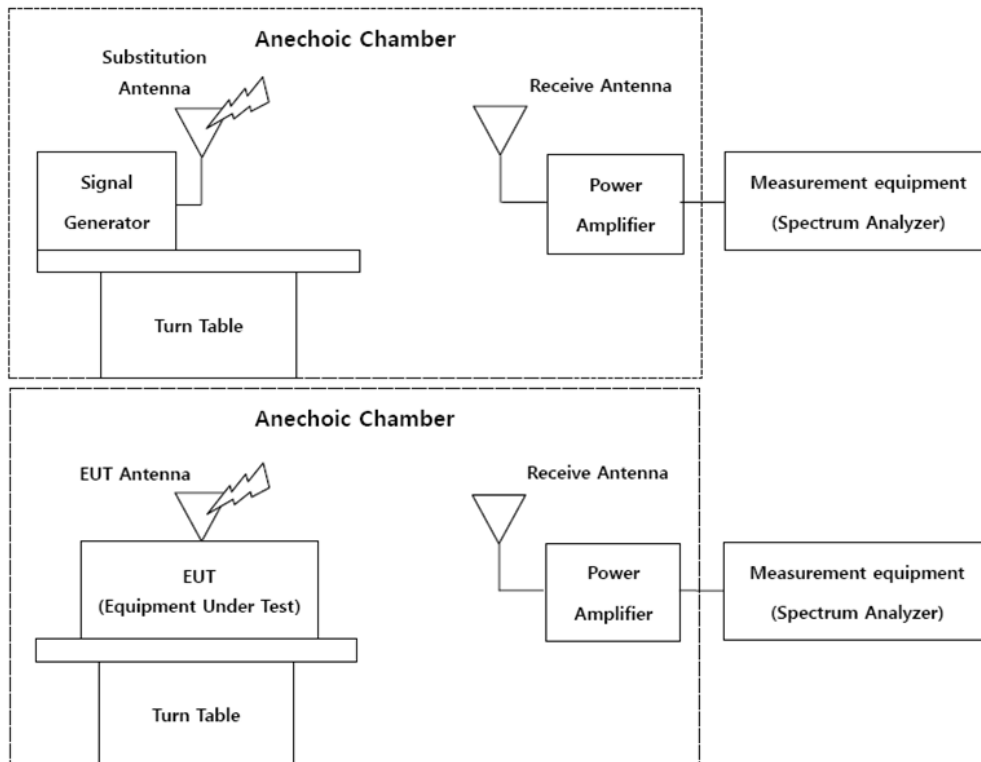


Figure 8-10. Test Instrument & Measurement Setup > 1 GHz

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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

$$\begin{aligned}\text{Field Strength [dB}\mu\text{V/m]} &= \text{Measured Value [dB}\mu\text{V/m]} + \text{AFCL [dB/m]} \\ &= 44.9 \text{ [dB}\mu\text{V/m]} - 14.0 \text{ [dB/m]} = 30.9 \text{ dB}\mu\text{V/m}\end{aligned}$$

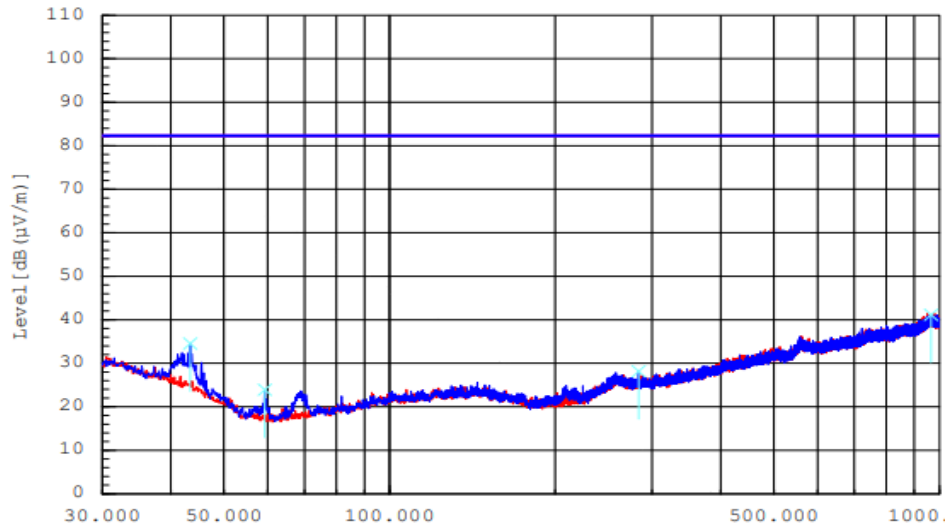
$$\begin{aligned}\text{e.i.r.p. [dBm]} &= E[\text{dB } \mu\text{V/m}] + 20 \log_{10}(d[\text{m}]) - 104.8 \\ &= 30.9 \text{ dB}[\mu\text{V/m}] + (20 * \log(3)) - 104.8 \\ &= -64.36 \text{ dBm}\end{aligned}$$

2. The above 1GHz average EIRP reported below is calculated per 5.5.3 of ANSI C63.26-2015 which states:

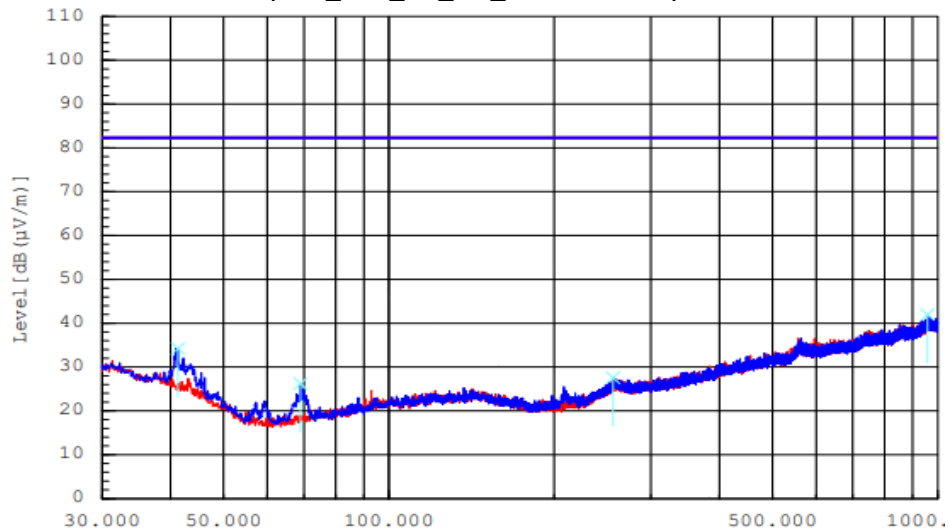
Effective Isotropic Radiated Power Sample Calculation**Substitution measurement**

$$\begin{aligned}\text{e.i.r.p. [dBm]} &= \text{EUT}_{\text{Prec}} [\text{dBm EIRP}] + P_L [\text{dB}] \\ &= -62.0 \text{ dBm} + 31.5 \\ &= -30.5 \text{ dBm}\end{aligned}$$

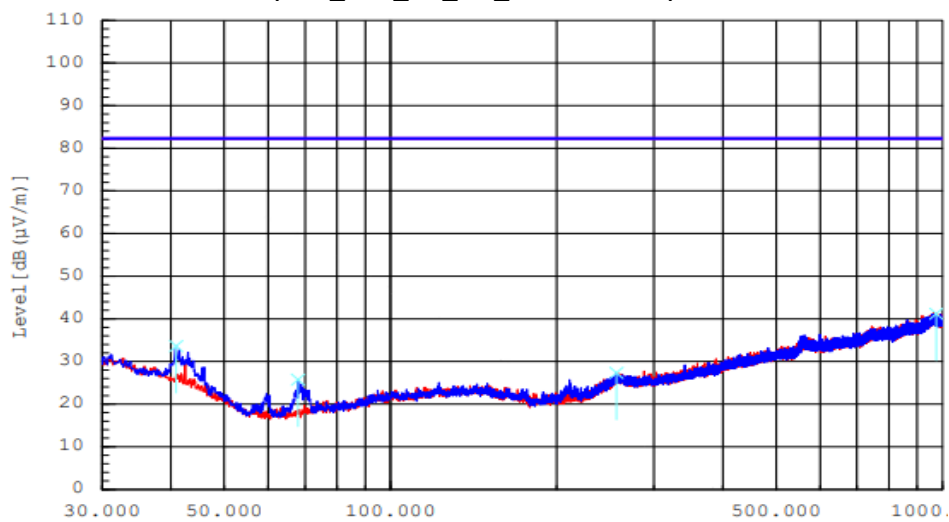
3. The EUT was tested in both horizontal and vertical antenna polarizations and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, channel bandwidth configurations shown in the tables below.
4. The spectrum is measured from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



**Plot 8-567. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B25_1C_5M_Low Channel)**



**Plot 8-568. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B25_1C_5M_Mid Channel)**



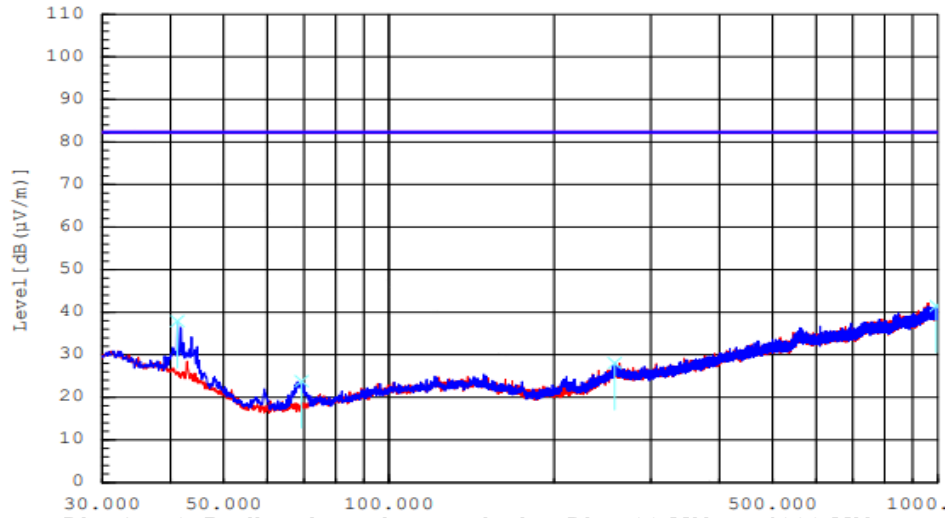
**Plot 8-569. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B25_1C_5M_High Channel)**



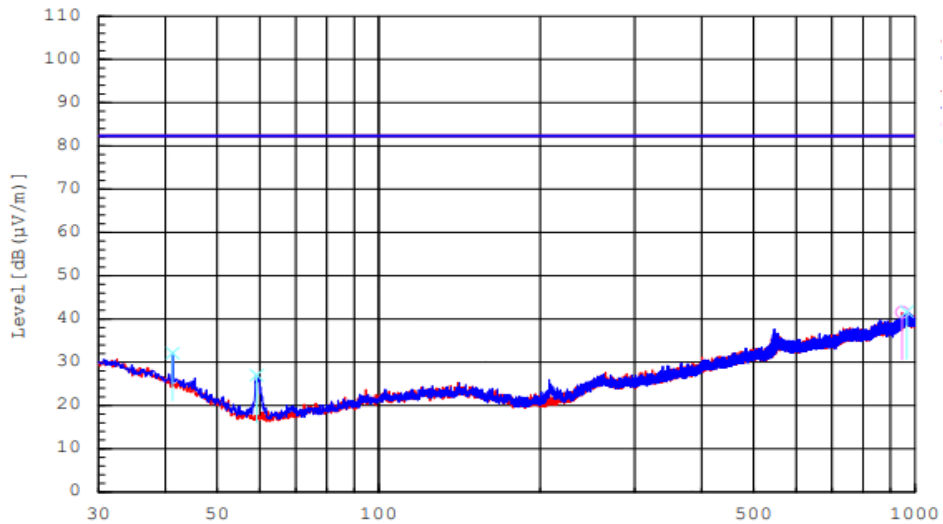
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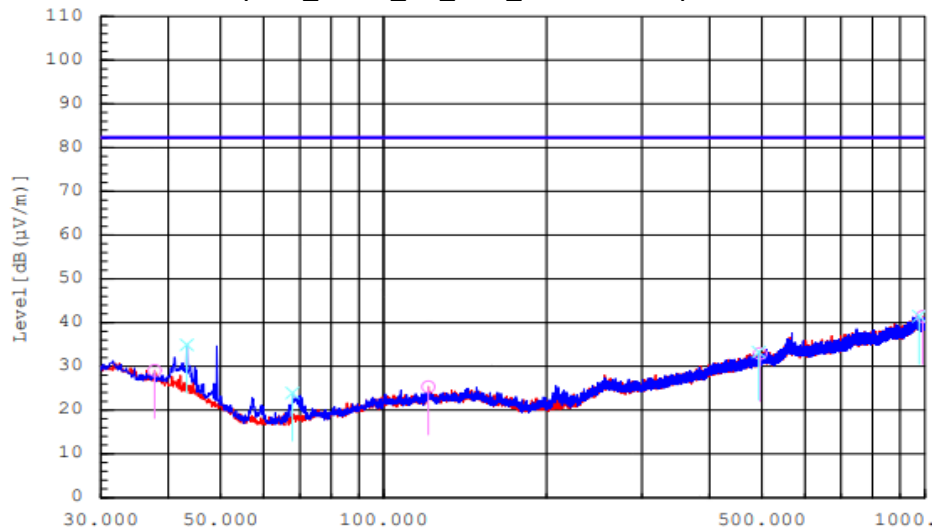
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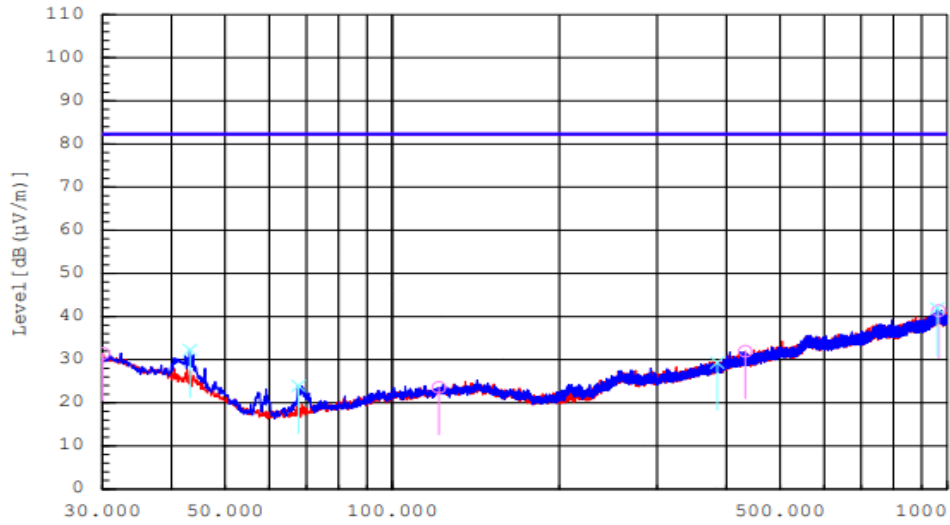
Plot 8-570. Radiated spurious emission Plot_30 MHz to 1000 MHz
(NR_n25_1C_5M_Mid Channel)



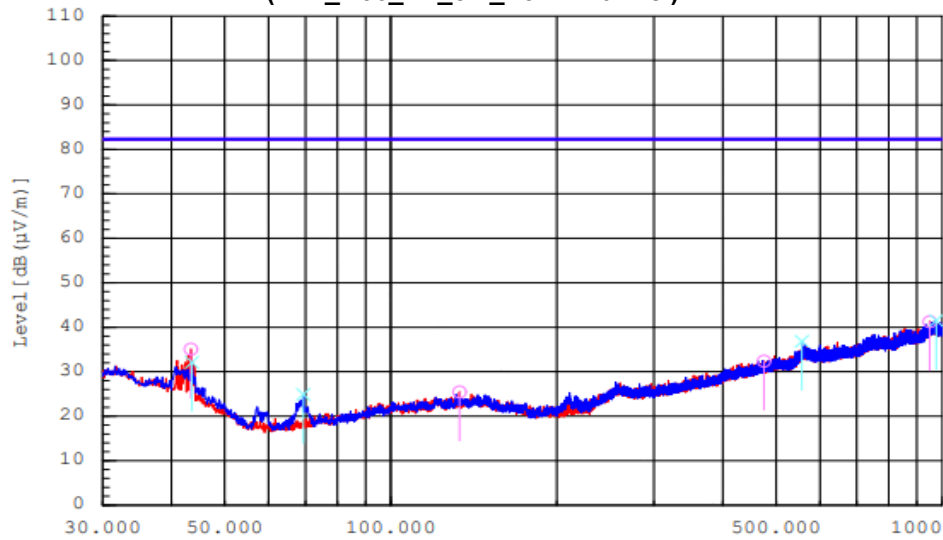
Plot 8-571. Radiated spurious emission Plot_30 MHz to 1000 MHz
(DSS_B/n25_1C_20M_Mid Channel)



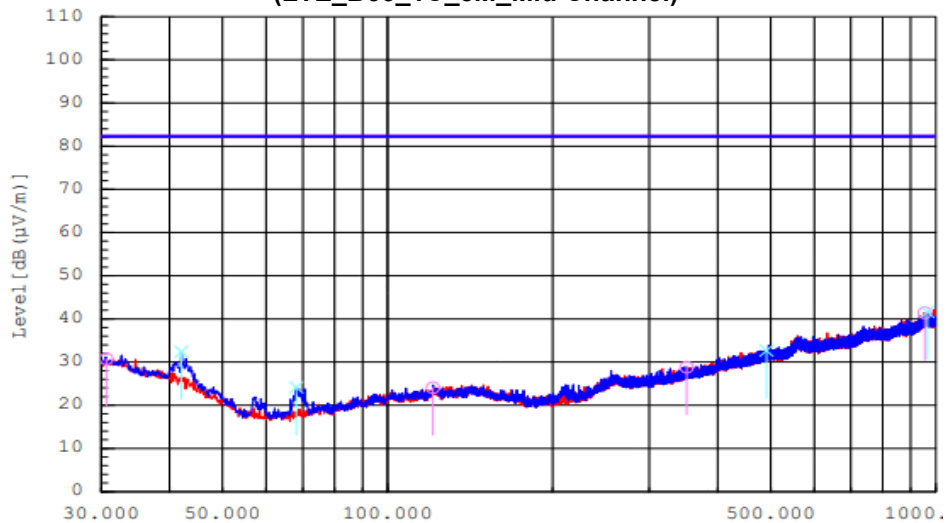
Plot 8-572. Radiated spurious emission Plot_30 MHz to 1000 MHz
(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M_Mid Channel)



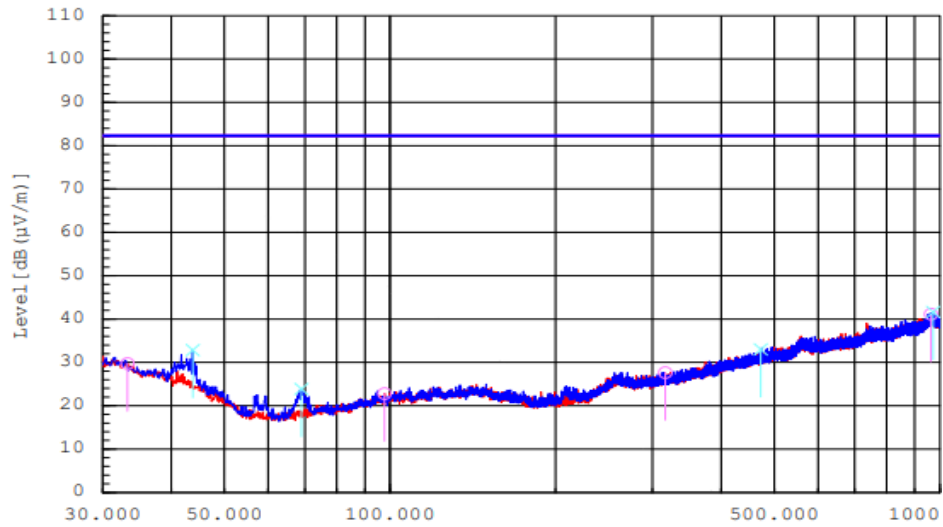
**Plot 8-573. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B66_1C_5M_Low Channel)**



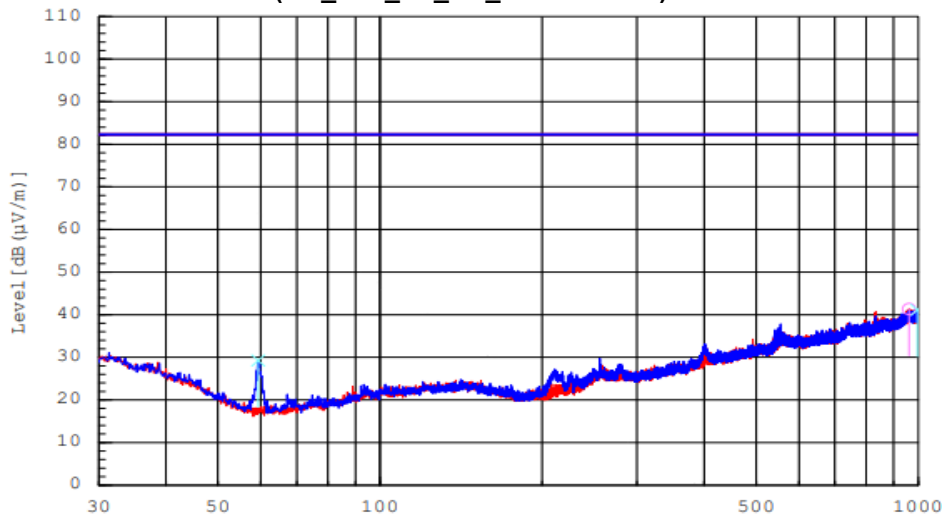
**Plot 8-574. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B66_1C_5M_Mid Channel)**



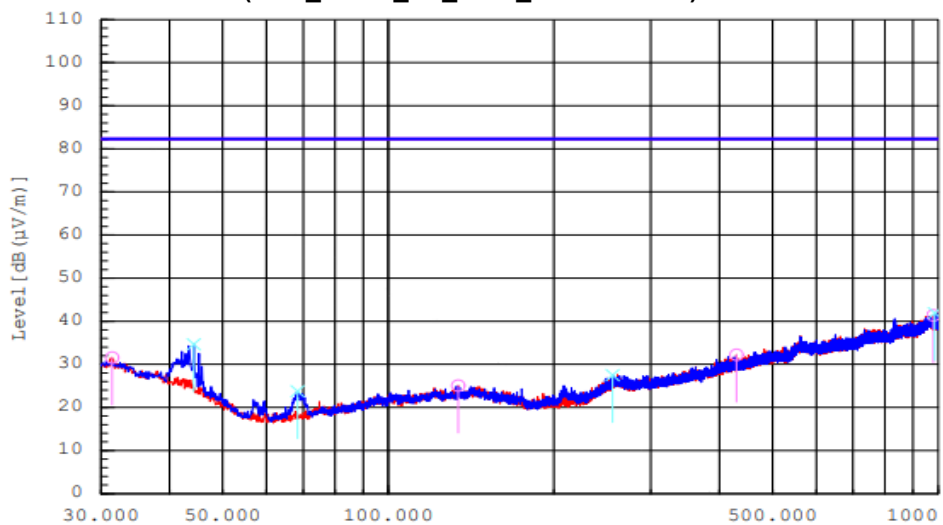
**Plot 8-575. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B66_1C_5M_High Channel)**



**Plot 8-576. Radiated spurious emission Plot_30 MHz to 1000 MHz
(NR_B66_1C_5M_Mid Channel)**



**Plot 8-577. Radiated spurious emission Plot_30 MHz to 1000 MHz
(DSS_B/n66_1C_10M_Mid Channel)**

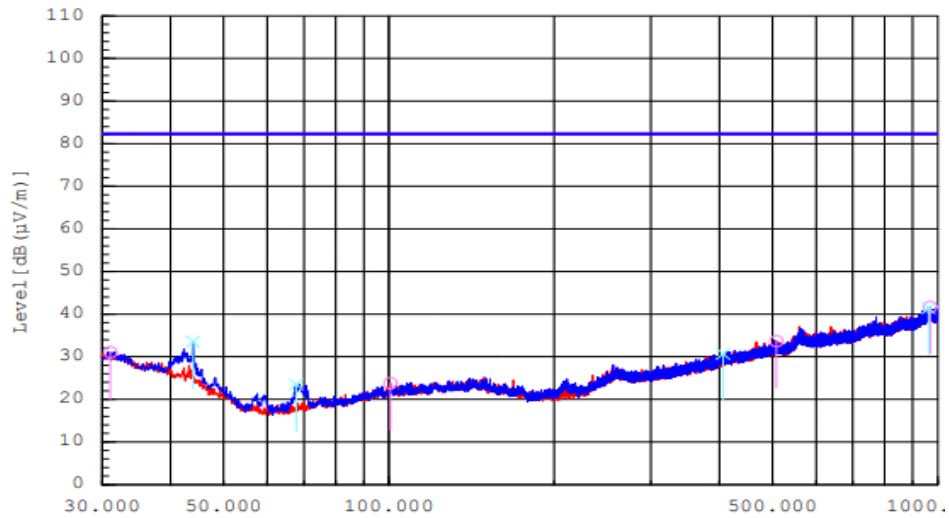


**Plot 8-578. Radiated spurious emission Plot_30 MHz to 1000 MHz
(MSR_B/n66_3NC_LTE 5M+NR 5M+DSS 10M)**

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Plot 8-579. Radiated spurious emission Plot_30 MHz to 1000 MHz
(Multi-Band MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M+MSR_B/n66_3C_LTE 20M+NR 20M+DSS 20M)

Mode	Frequency [MHz]	Ant. Pol.	Analyzer Level [dBμV/m]	AFCL [dB/m]	Field Strength [dBμV/m]	e.i.r.p. [dBm]	Limit [dBm]	Margin [dB]	Turntable azimuth [degree]	Height [cm]
NR_B25_1C_30M	37.517	H	34.6	-8.6	26.0	-69.26	-13.0	-56.28	114.5	114.5
	48.350	V	44.9	-14.0	30.9	-64.36	-13.0	-51.36	3.6	107.5
	All detected emissions are compliant with attenuated more than 20 dB below limit.									

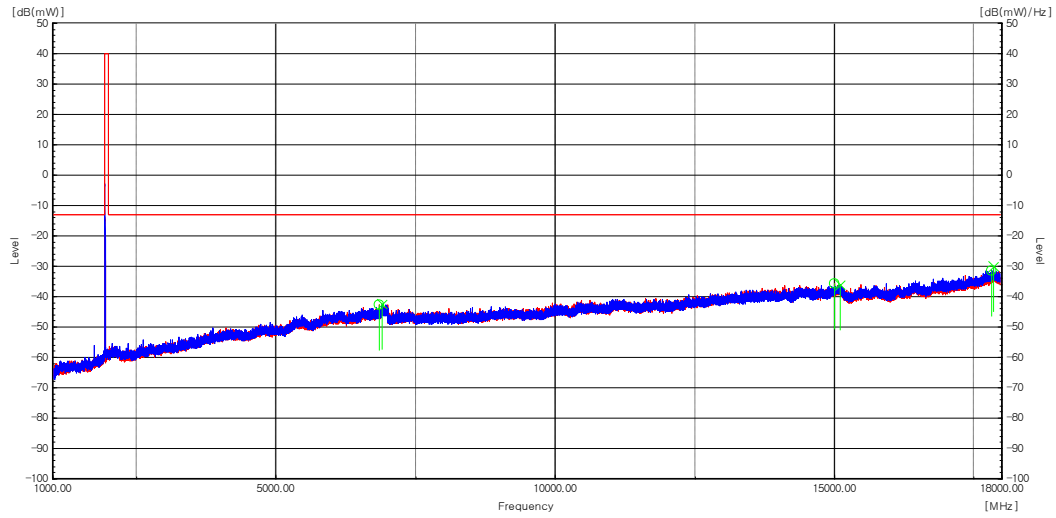
Table 8-171. Radiated spurious emission 30 MHz to 1000 MHz Worst mode Summary Data



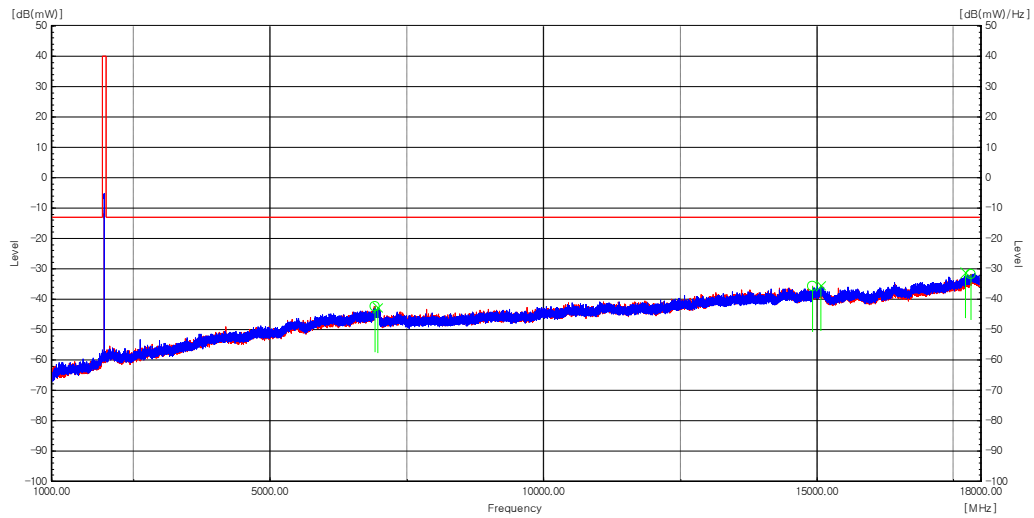
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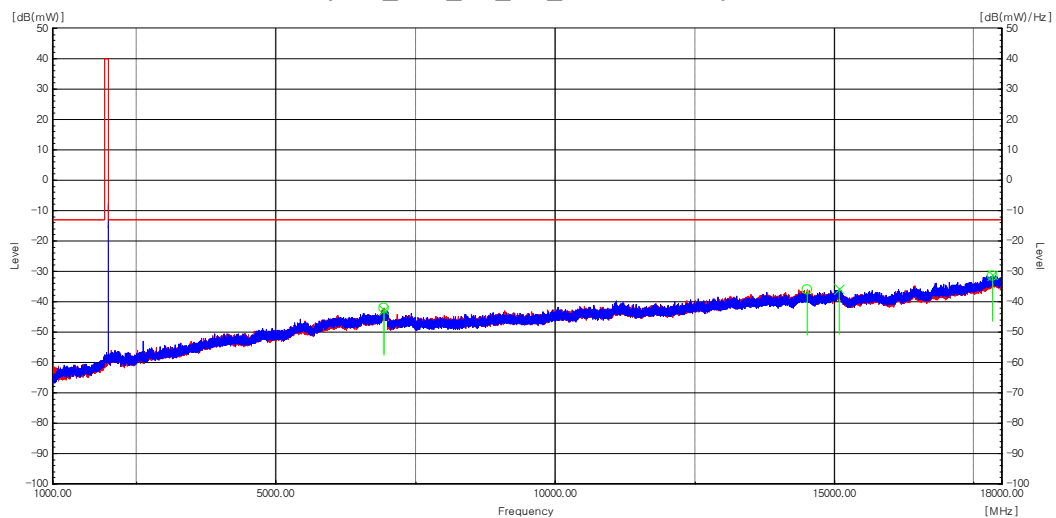
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**Plot 8-580. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B25_1C_5M_Low Channel)**



**Plot 8-581. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B25_1C_5M_Mid Channel)**



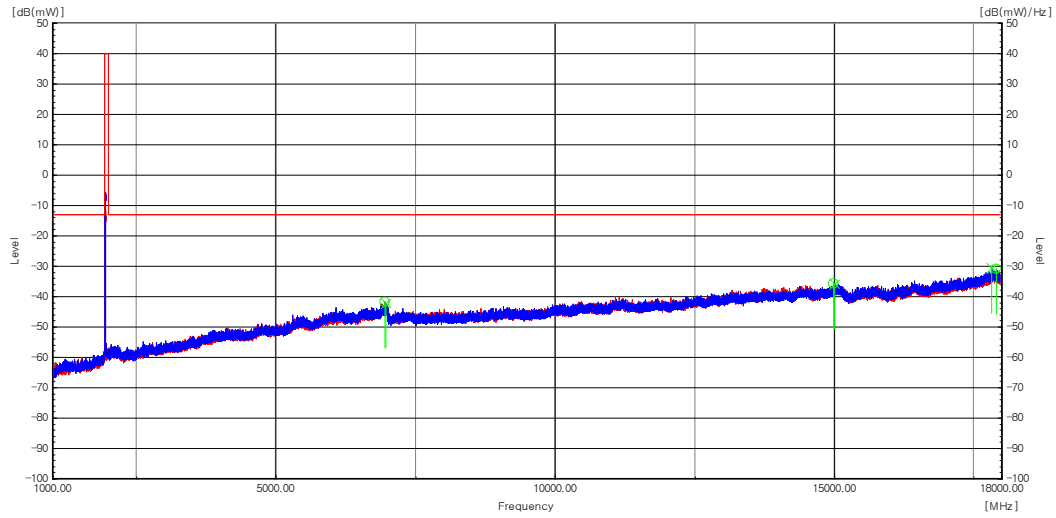
**Plot 8-582. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B25_1C_5M_High Channel)**



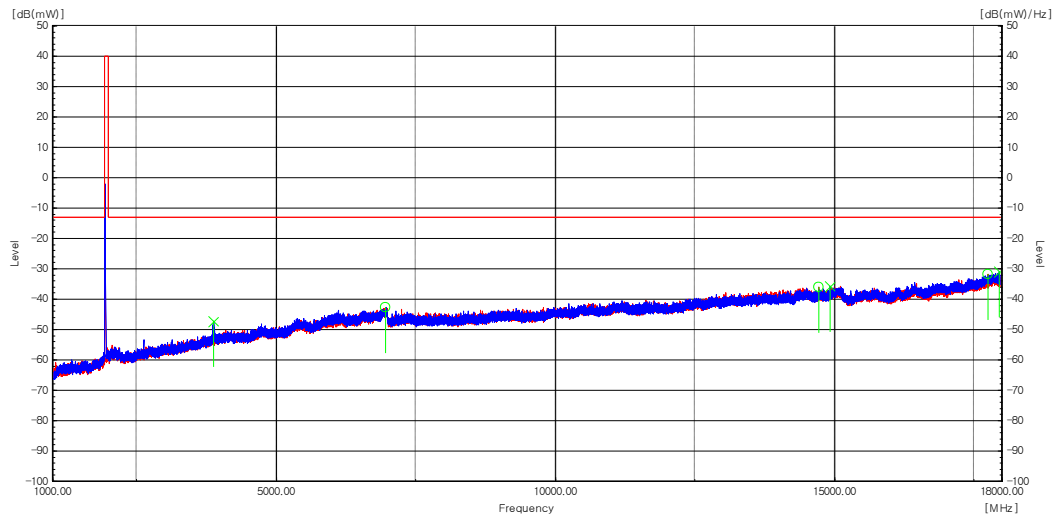
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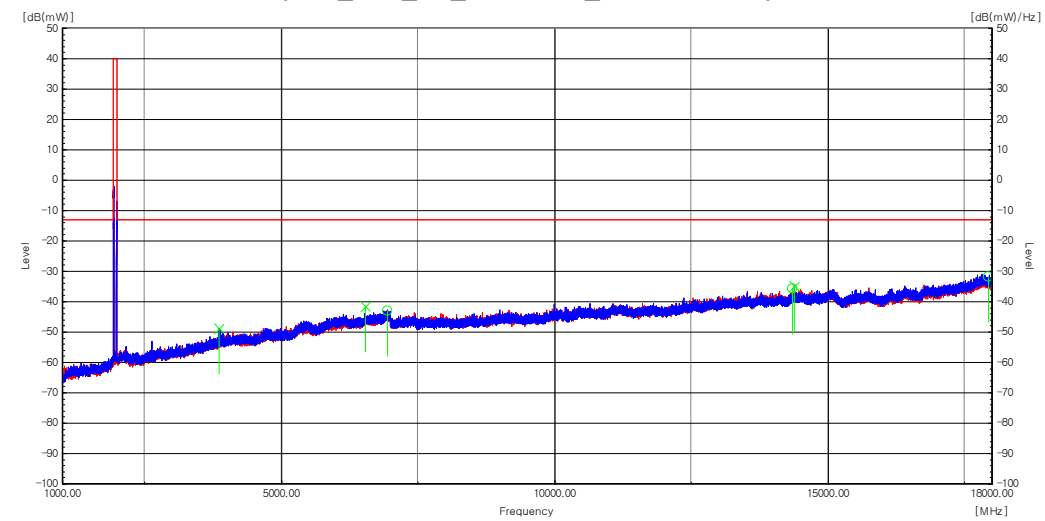
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**Plot 8-583. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B25_1C_20M_Low Channel)**



**Plot 8-584. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B25_2C_10M+10M_Low Channel)**



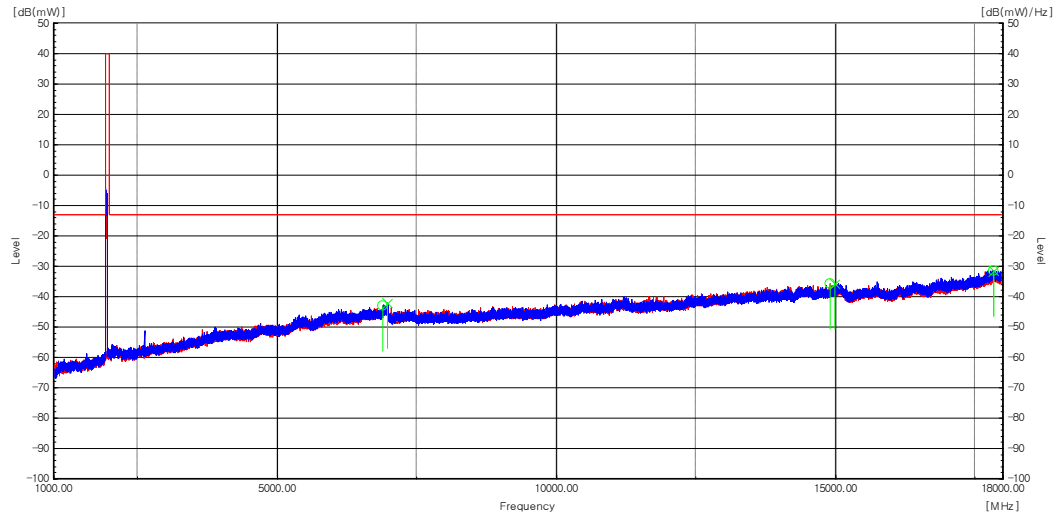
**Plot 8-585. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B25_2NC_10M+10M)**



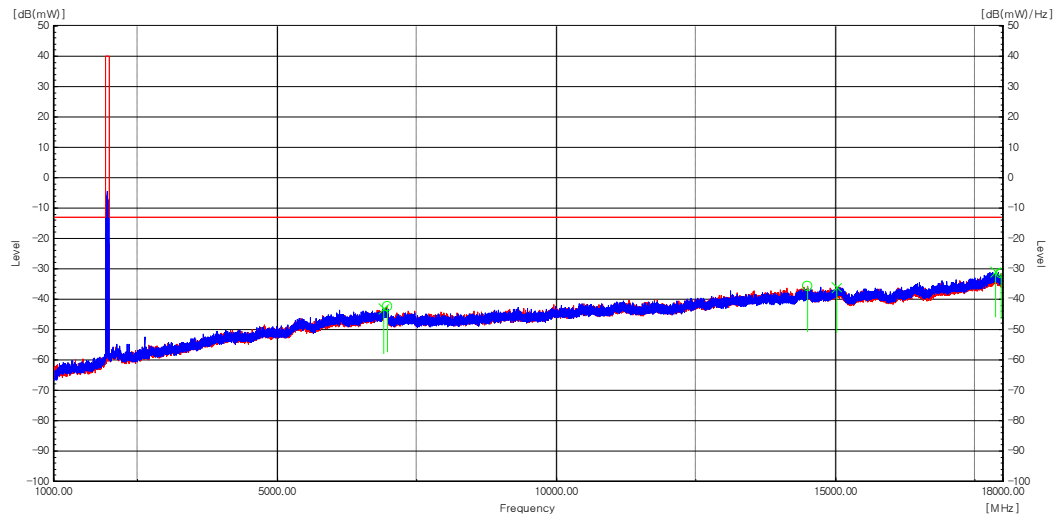
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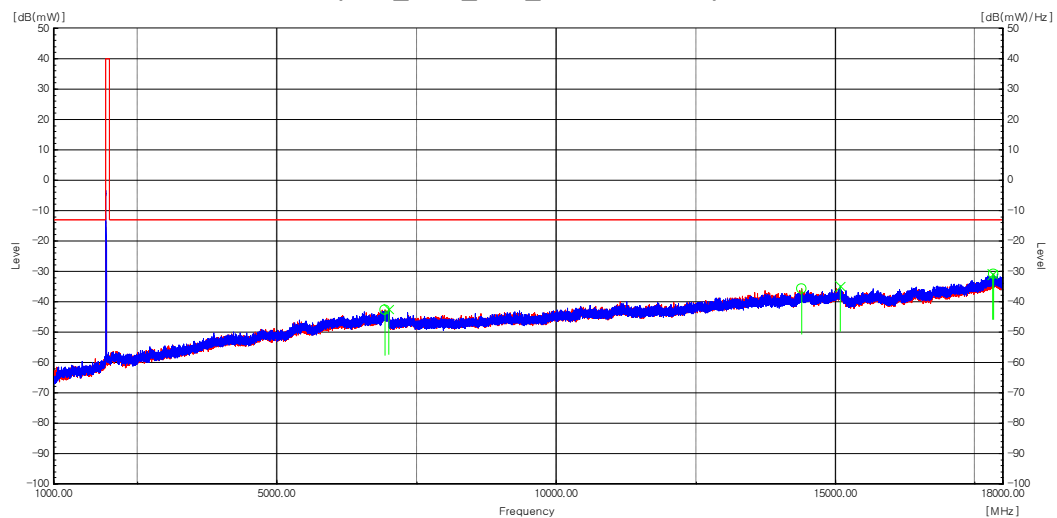
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**Plot 8-586. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B25_3C_5M+10M+15M_Low_Channel)**



**Plot 8-587. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_3NC_B25_5M+10M+15M)**



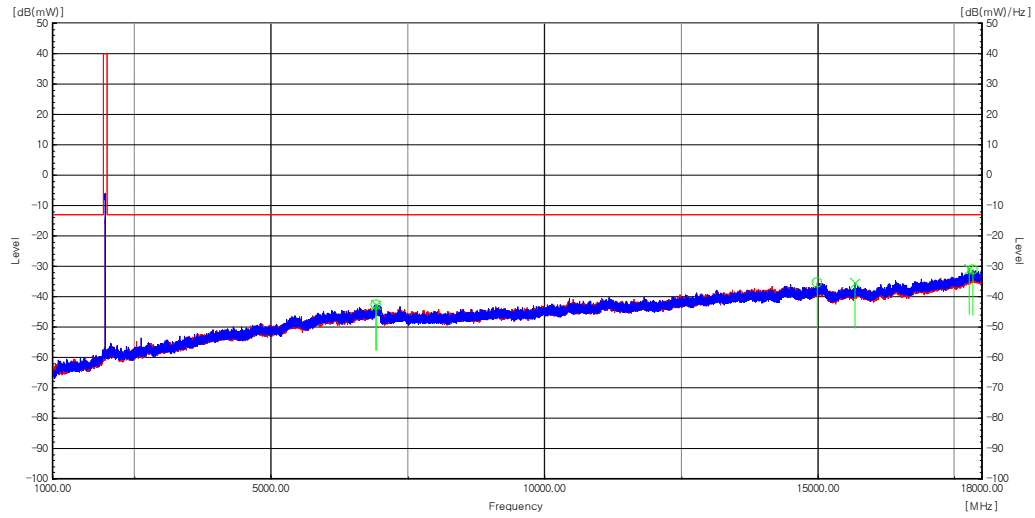
**Plot 8-588. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n25_1C_5M_Low Channel)**



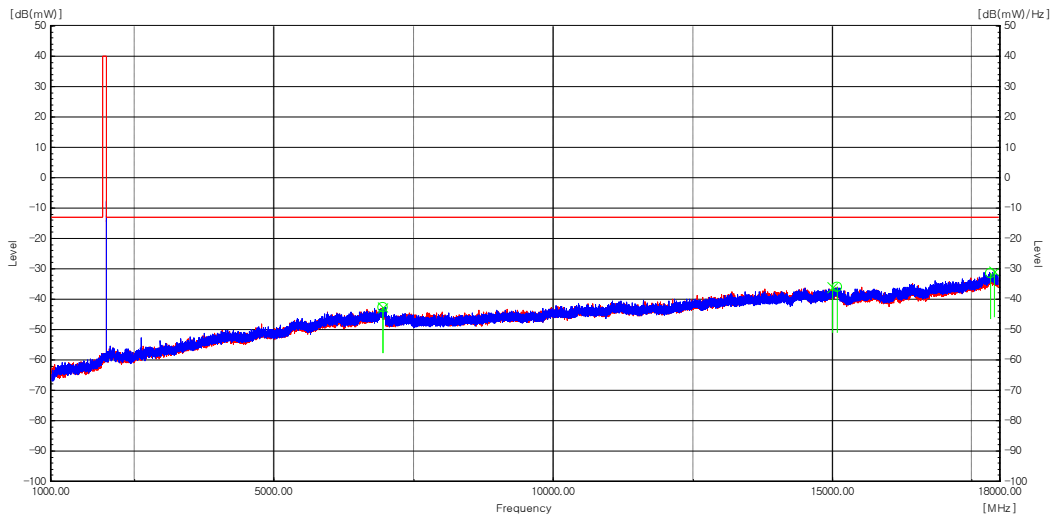
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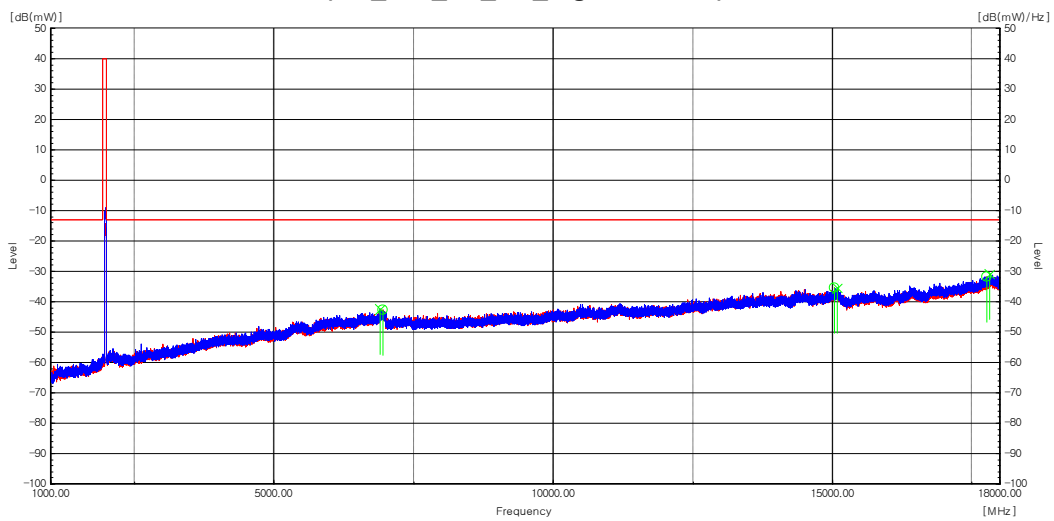
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**Plot 8-589. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n25_1C_5M_Mid Channel)**



**Plot 8-590. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n25_1C_5M_high Channel)**



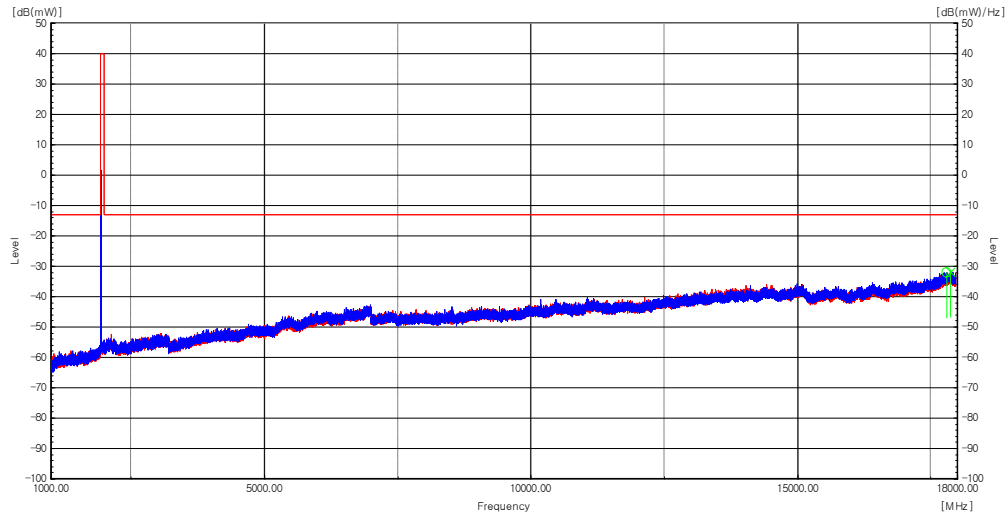
**Plot 8-591. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n25_1C_30M_High Channel)**



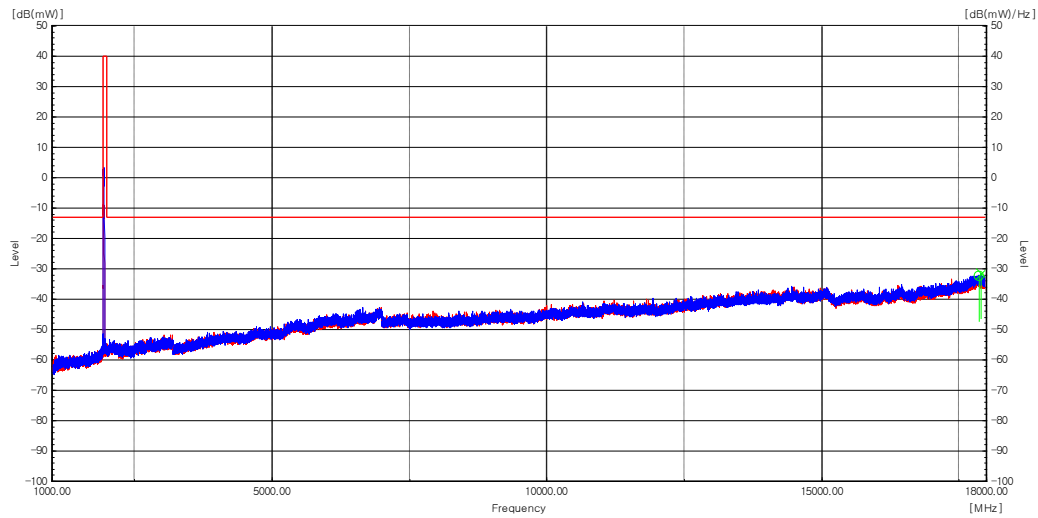
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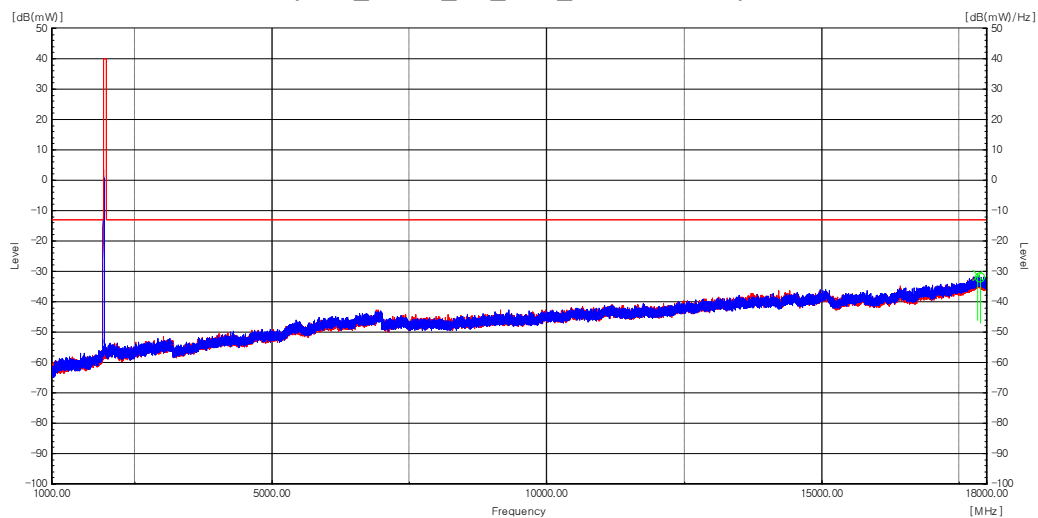
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**Plot 8-592. Radiated spurious emission Plot_1 GHz to 18 GHz
(DSS_B/n25_1C_10M_Low Channel)**



**Plot 8-593. Radiated spurious emission Plot_1 GHz to 18 GHz
(DSS_B/n25_1C_20M_Low Channel)**



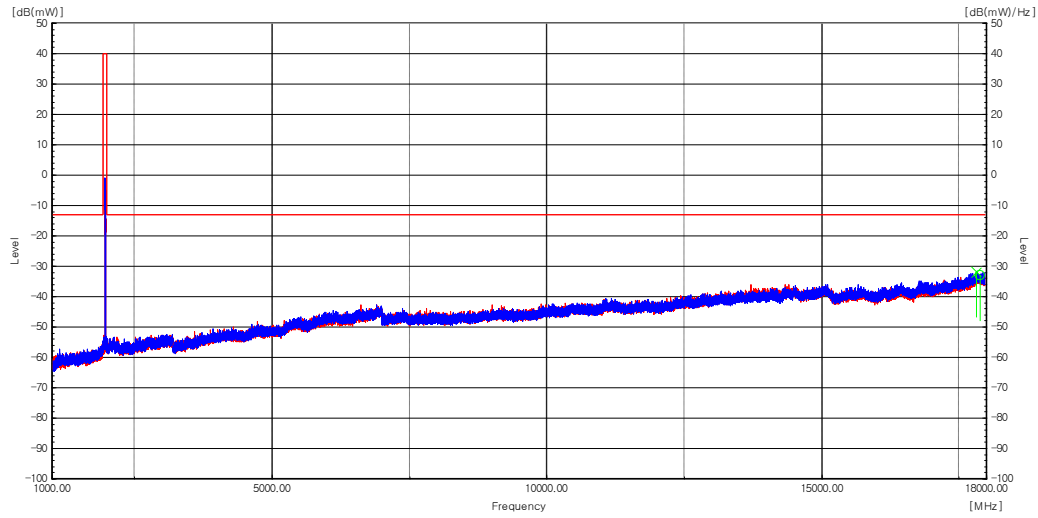
**Plot 8-594. Radiated spurious emission Plot_1 GHz to 18 GHz
(MSR_B/n25_3C_LTE 5M+NR 5M+DSS 10M_Low Channel)**



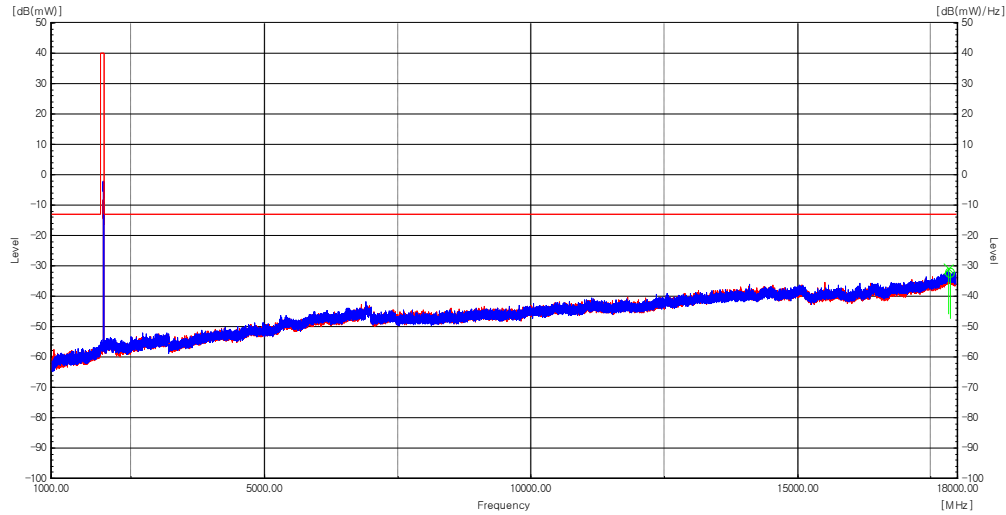
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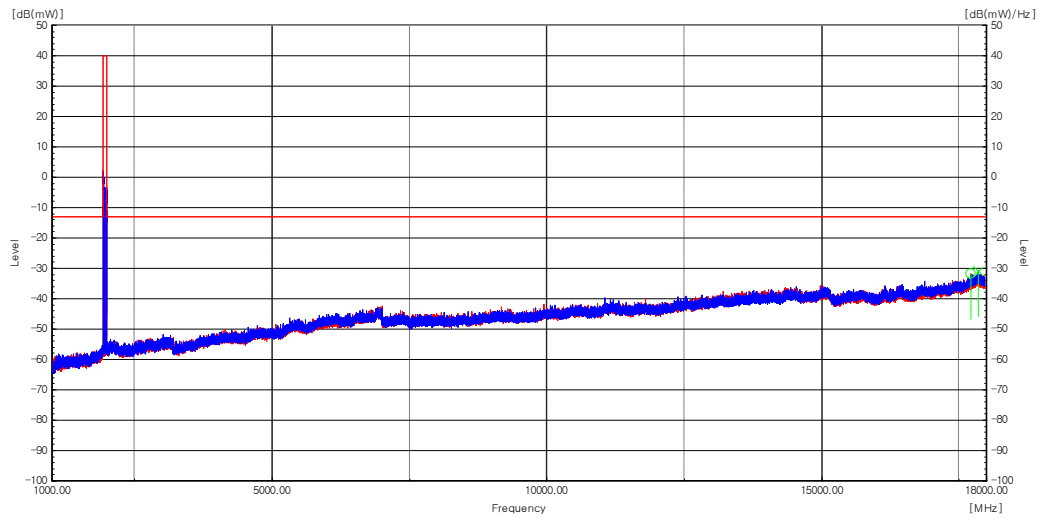
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**Plot 8-595. Radiated spurious emission Plot_1 GHz to 18 GHz
(MSR_B/n25_3C_LTE 5M+NR 5M+DSS 10M_Mid Channel)**



**Plot 8-596. Radiated spurious emission Plot_1 GHz to 18 GHz
(MSR_B/n25_3C_LTE 5M+NR 5M+DSS 10M_High Channel)**



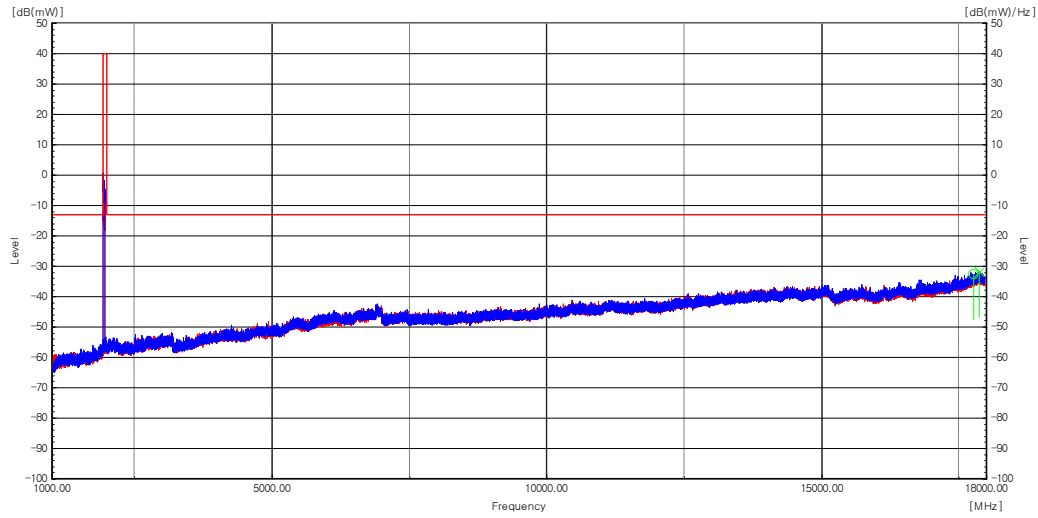
**Plot 8-597. Radiated spurious emission Plot_1 GHz to 18 GHz
(MSR_B/n25_3NC_LTE 5M+NR 5M+DSS 10M)**



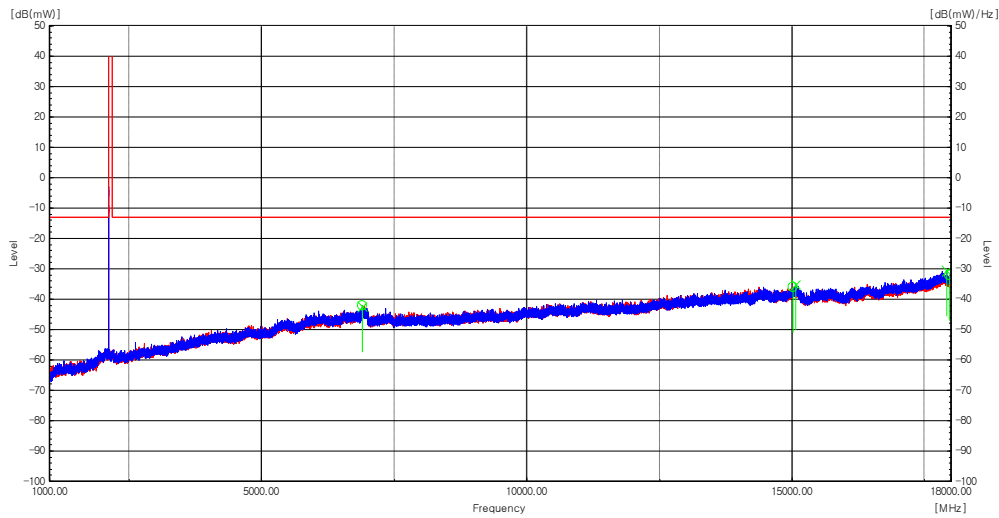
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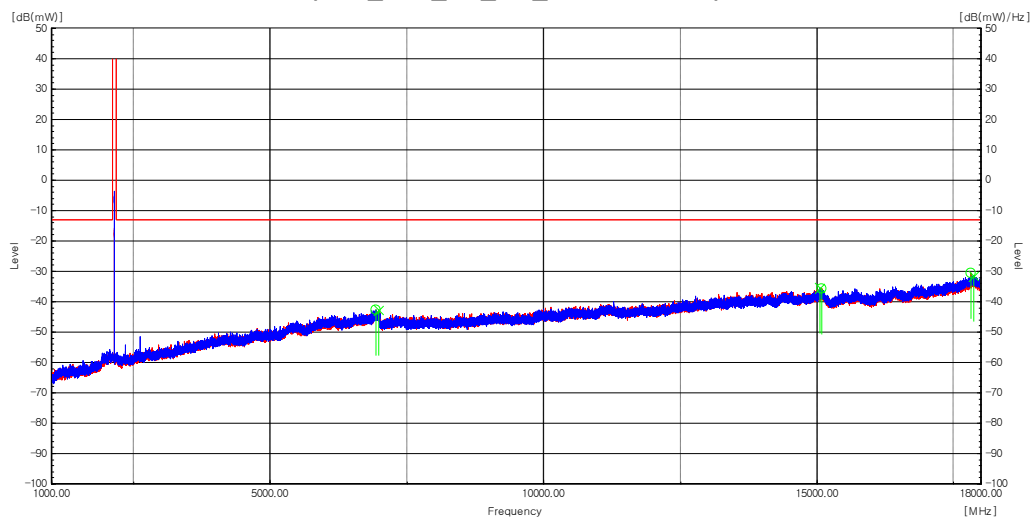
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**Plot 8-598. Radiated spurious emission Plot_1 GHz to 18 GHz
(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M_Low Channel)**



**Plot 8-599. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B66_1C_5M_Low Channel)**



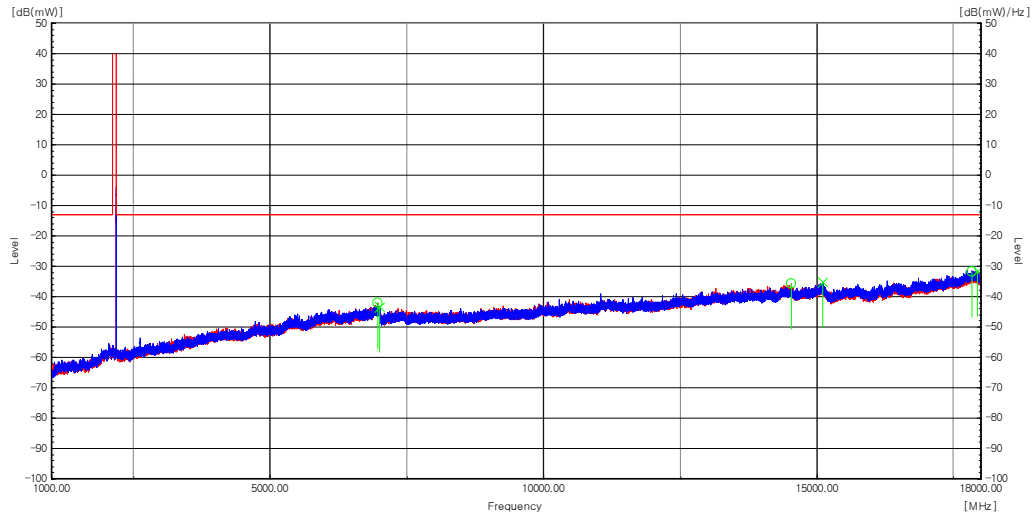
**Plot 8-600. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B66_1C_5M_Mid Channel)**



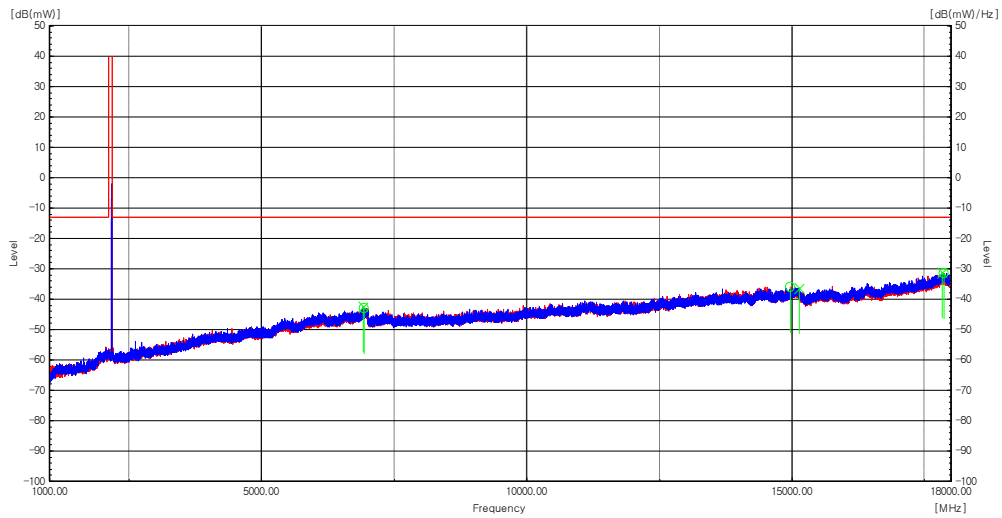
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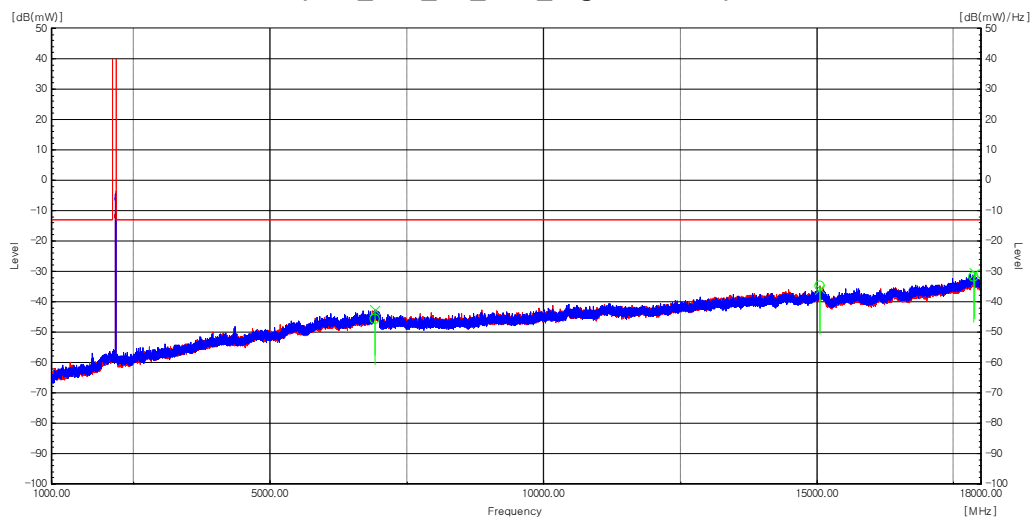
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**Plot 8-601. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B66_1C_5M_High Channel)**



**Plot 8-602. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B66_1C_10M_High Channel)**



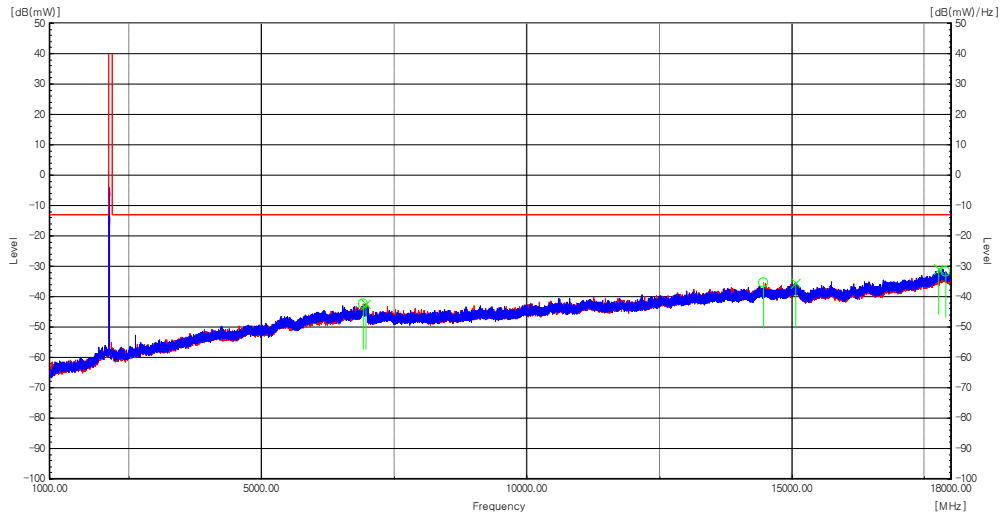
**Plot 8-603. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B66_1C_15M_High Channel)**



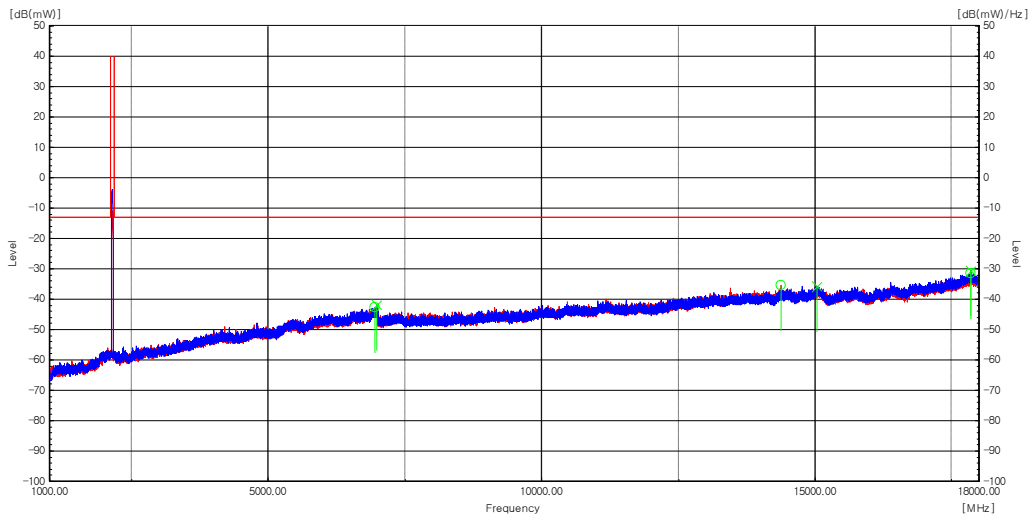
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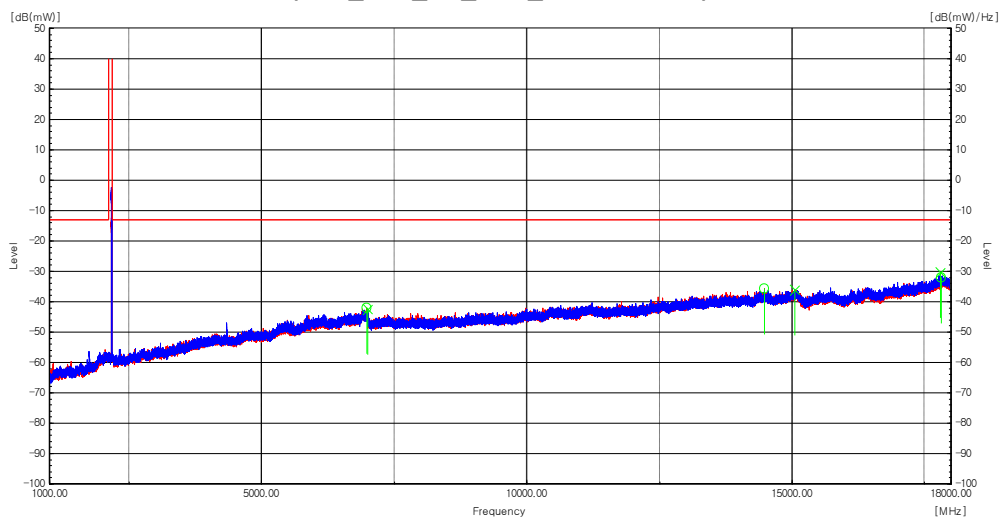
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**Plot 8-604. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B66_1C_20M_Low Channel)**



**Plot 8-605. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B66_1C_20M_Mid Channel)**



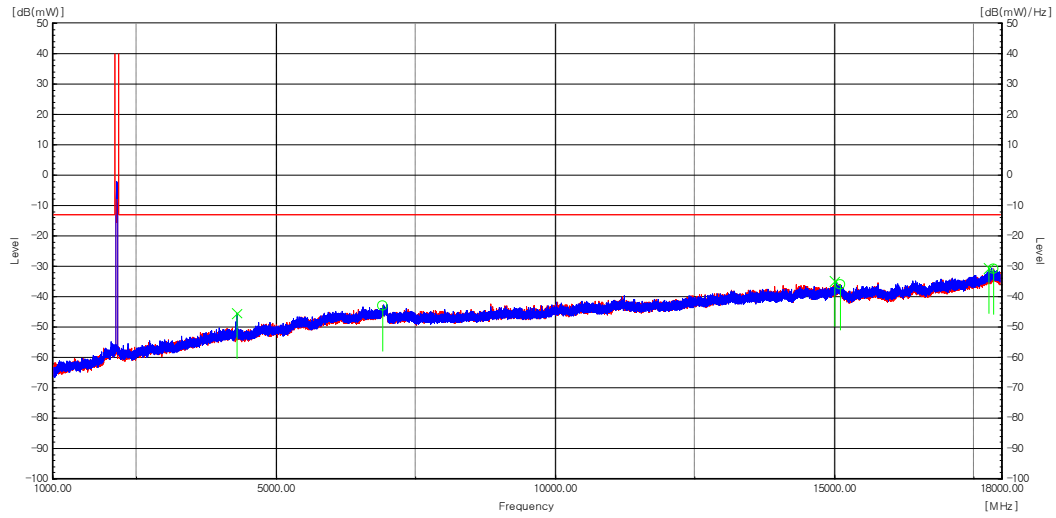
**Plot 8-606. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B66_1C_20M_High Channel)**



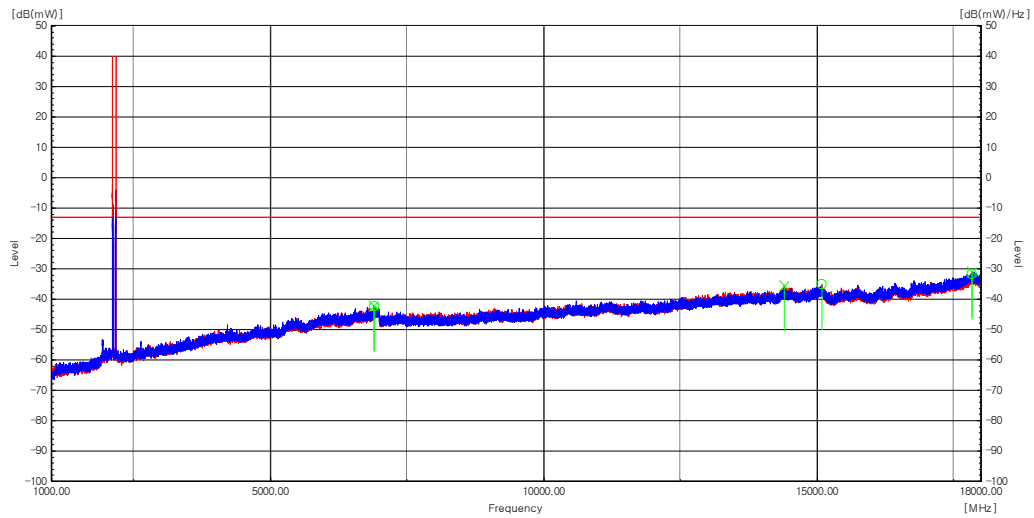
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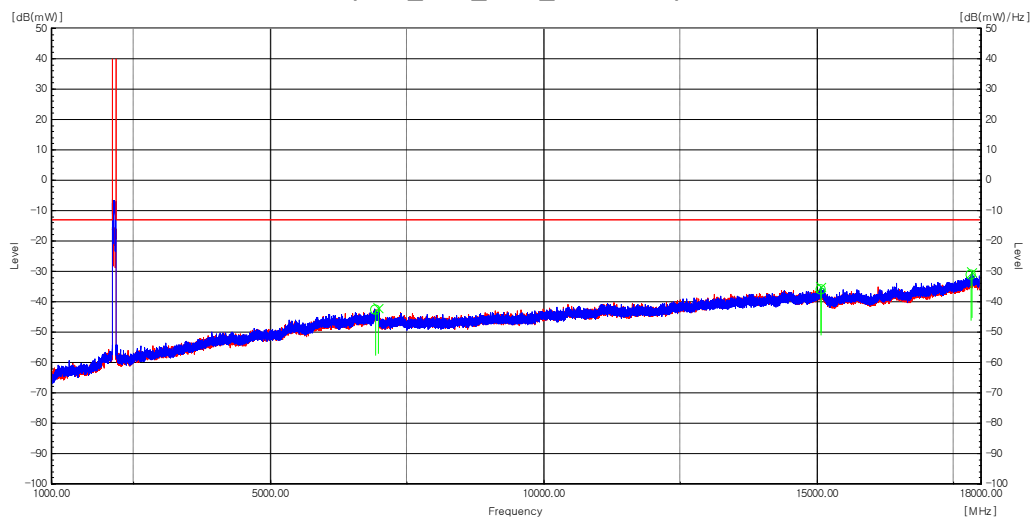
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**Plot 8-607. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B66_2C_10M+10M_Mid Channel)**



**Plot 8-608. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B66_2NC_10M+10M)**



**Plot 8-609. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B66_3C_5M+10M+20M+20M_Mid Channel)**