

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

EUT Description: A4525R-GL
Applicant: Eagle Wireless Holdings, Inc.
1974 E. 66th St., Suite 200-B Cleveland, OH 44103 USA
Manufacturer: Eagle Wireless Holdings, Inc.
1974 E. 66th St., Suite 200-B Cleveland, OH 44103 USA
Brand Name: EagleWireless
Model No.: A4525R-GL
Report Number: TERF2608003004E2
FCC ID 2BNX7A4525RGLA
Date of EUT Received: Please refer to the referenced report for detailed information,
as described in Section 2.
Date of Test: Please refer to the referenced report for detailed information,
as described in Section 2.
Issue Date: October 5, 2026

Approved By _____**Vito Pei****We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, And equipment configurations shown In this report were made In accordance With the procedures given In ANSI C63.26:2015 And the energy emitted by the sample EUT comply With FCC Part2, 22H, 24E, 27C. The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2608003004E2	00	Original	October 5, 2026	Yuri Tsai	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL PRODUCT INFORMATION

1.1 Equipment Under Test (EUT)

EUT Description:	A4525R-GL
Brand Name:	EagleWireless
Model No.:	A4525R-GL
Power Supply:	3.8 Vdc
Test Software (Name/Version)	Default(Call Radio Communication Analyzer)

1.2 Operation Frequency Range

Operating Frequency (MHz)	
GSM/GPRS/EDGE 850	824.2 - 848.8
GSM/GPRS/EDGE 1900	1850.2 - 1909.8
WCDMA / HSPA+ Band II	1852.4 - 1907.6
WCDMA / HSPA+ Band IV	1712.4 - 1752.6
WCDMA / HSPA+ Band V	826.4 - 846.6

1.3 Antenna Designation

Antenna Type	Part No.
Dipole	YECN009AA
Note: Transmission frequencies in this test report are only available by the above antenna(s).	

Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
GSM/GPRS/EDGE 850	824.2 - 848.8	0.3
GSM/GPRS/EDGE 1900	1850.2 - 1909.8	1.8
WCDMA / HSPA+ Band II	1852.4 - 1907.6	1.8
WCDMA / HSPA+ Band IV	1712.4 - 1752.6	1.2
WCDMA / HSPA+ Band V	826.4 - 846.6	0.3

Note: The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

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1.4 Type of Emission & Max ERP/EIRP Power Measurement Result:

Mode	ERP / EIRP (dBm)	W	99%	Type of Emission
GPRS 850	30.47 ERP	1.114	0.2445	244KGXW
EDGE 850	24.30 ERP	0.269	0.2448	245KG7W
GPRS 1900	31.57 EIRP	1.435	0.2423	242KGXW
EDGE 1900	26.61 EIRP	0.458	0.2458	246KG7W
Mode	ERP / EIRP (dBm)	W	99%	Type of Emission
WCDMA Band II	24.78 EIRP	0.301	4.1544	4M15F9W
HSDPA Band II	24.47 EIRP	0.280	4.1433	4M14F9W
HSUPA Band II	24.54 EIRP	0.284	4.1409	4M14F9W
WCDMA Band IV	24.33 EIRP	0.271	4.1531	4M15F9W
HSDPA Band IV	23.70 EIRP	0.234	4.1440	4M14F9W
HSUPA Band IV	23.78 EIRP	0.239	4.1548	4M15F9W
WCDMA Band V	21.31 ERP	0.135	4.1302	4M13F9W
HSDPA Band V	20.99 ERP	0.126	4.1275	4M13F9W
HSUPA Band V	20.98 ERP	0.125	4.1358	4M14F9W

1.5 Final Amplifier Voltage and Current Information:

Test mode	DC voltage (V)	DC current (mA)
GPRS 850	3.8	370
EDGE 850	3.8	200
GPRS 1900	3.8	230
EDGE 1900	3.8	190
WCDMA B2	3.8	530
HSUPA B2	3.8	450
HSDPA B2	3.8	490
WCDMA B4	3.8	490
HSUPA B4	3.8	500
HSDPA B4	3.8	460
WCDMA B5	3.8	510
HSUPA B5	3.8	410
HSDPA B5	3.8	480

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1.6 EUT Availability and The Worst Test Modes

1. Pre-Scan has been conducted to determine the worst-case scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
2. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

RADIATED EMISSION	GPRS Bands	Test Channel		
		L	M	H
ERP	850	v	v	v
EIRP	1900	v	v	v
FREQUENCY STABILITY	850	-	v	-
	1900	-	v	-
OCCUPIED BANDWIDTH	850	v	v	v
	1900	v	v	v
PEAK TO AVERAGE RATIO	850	v	v	v
	1900	v	v	v
BAND EDGE	850	v	-	v
	1900	v	-	v
CONDUCTED EMISSION	850	v	v	v
	1900	v	v	v
RADIATED EMISSION	850	v	v	v
	1900	v	v	v

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Test Items	WCDMA / HSPA Bands	Test Channel		
		L	M	H
ERP	Band V	v	v	v
EIRP	Bnad II	v	v	v
	Band IV	v	v	v
FREQUENCY STABILITY	Bnad II	-	v	-
	Band IV	-	v	-
	Band V	-	v	-
OCCUPIED BANDWIDTH	Bnad II	v	v	v
	Band IV	v	v	v
	Band V	v	v	v
PEAK TO AVERAGE RATIO	Bnad II	v	v	v
	Band IV	v	v	v
	Band V	v	v	v
BAND EDGE	Bnad II	v	-	v
	Band IV	v	-	v
	Band V	v	-	v
CONDCUDED EMISSION	Bnad II	v	v	v
	Band IV	v	v	v
	Band V	v	v	v
RADIATED EMISSION	Bnad II	v	v	v
	Band IV	v	v	v
	Band V	v	v	v

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2 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	Note
§2.1046(a)	RF Power Output	Compliant	
§22.913(a)(5) §24.232(c) §27.50(d)(4)	ERP/ EIRP measurement	Compliant	
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant	
§2.1051 §22.917(a) §24.238(a) §27.53(h)(1)	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant	
§2.1053 §22.917(a) §24.238(a) §27.53(h)(1)	Field Strength of Spurious Radiation	Compliant	
§22.913(d) §24.232(d) §27.50(a)(1)(B) §27.50(d)(5)	Peak to Average Ratio	Compliant	
§2.1055(a)(1) §22.355 §24.235 §27.54	Frequency Stability	Compliant	

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2608003009E2.

2.1 Test Methodology of Applied Standards

1. FCC 47 CFR Part 2, 22H
2. FCC 47 CFR Part 2, 24E
3. FCC 47 CFR Part 2, 27C
4. ANSI C63.26:2015
5. FCC KDB 941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.
6. FCC KDB 412172 D01 Determining ERP and EIRP v01r01
7. FCC KDB 971168 D01 Power Meas License Digital System v03r01

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2.2 Measurement Uncertainty

Test Items	Uncertainty
Output Power measurement	+/- 0.97 dB
ERP/ EIRP measurement	+/- 2.15 dB
Emission Bandwidth	+/- 1.38 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.77 dB
Peak to Average Ratio	+/- 0.97 dB
Frequency Stability vs. Temperature	+/- 1.48 Hz
Frequency Stability vs. Voltage	+/- 1.48 Hz
Temperature	+/- 0.60 °C
Humidity	+/- 3.00 %
DC / AC Power Source	+/- 1.00 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Radiated Spurious Emission	+/- 2.00 dB	33GHz - 50GHz
	+/- 1.59 dB	50GHz - 60GHz
	+/- 1.71 dB	60GHz - 90GHz
	+/- 1.64 dB	90GHz - 140GHz
	+/- 3.84 dB	140GHz - 220GHz

Note

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number / Registration Number	IC CAB identifier / Company Number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803	SAC 1 / SAC 2 / SAC 3 Conduction 1 / Conducted 1 Conducted 2 / Conducted 3 Conducted 4 / Conducted 5 Conducted 6	TW0027 / 891563	TW3702 / 4620A
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.2, Keji 1st Rd, Guishan District, Taoyuan City, Taiwan 333	SAC C / SAC D / SAC G Conduction C/ Conducted A Conducted B / Conducted C Conducted D / Conducted E Conducted F / Conducted G	TW0028 / 200037	TW3702 / 4620E

Measurement	Test Site Name	Test Engineer	EUT S/N	Test Environment	Test Date
Conducted	Conducted E	Henry Chiang	P1Y24FG1E000101	22.4~23.5°C / 62~67%	2026/08/28 ~ 2026/09/19
Radiated	SAC C	Alex Li	P1Y24FG1E000101	21.4~23.7°C / 60~62%	2026/09/08 ~ 2026/09/10

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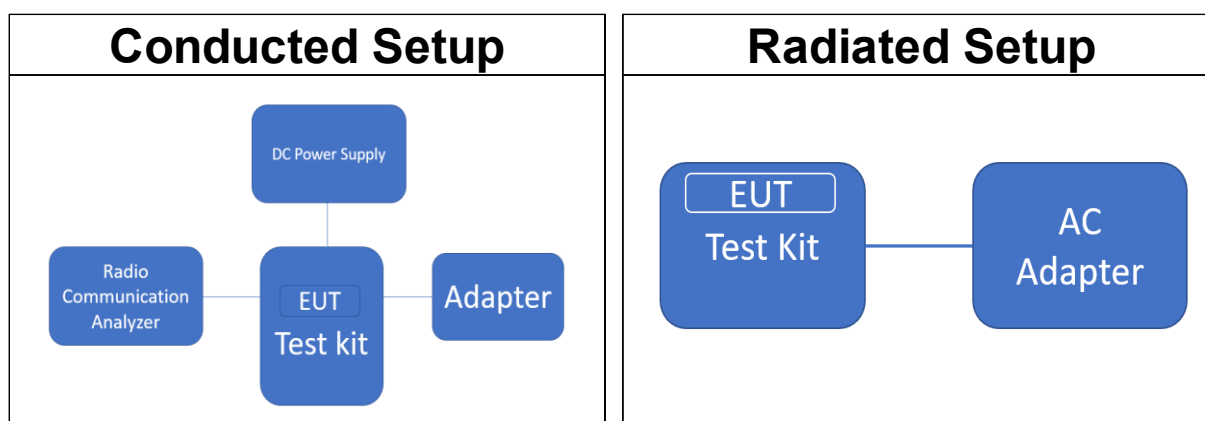
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3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 EUT Exercise

1. The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.
2. The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level. The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

3.2 Diagrams



Note: Radio Communication Analyzer is placed in remote side for radiated test.

3.3 List

3.3.1 Conducted Setup

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Adapter	GangQi	GQ36-120300-AX	N/A	N/A	N/A
Test Kit	Eagle Wireless Holdings, Inc.	V2X&5G-EVB	MPY25L63C000003	N/A	N/A

3.3.2 Radiated Setup

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Test Kit	Eagle Wireless Holdings, Inc.	V2X&5G-EVB	MPY26C73E000109	N/A	N/A
AC Adapter	Gang Qi Electronic Co., Ltd.	GQ36-120300-AX	N/A	N/A	N/A

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4 MEASUREMENT EQUIPMENT USED

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Marvelous	MVE2213-10	RF14	11/13/2025	11/12/2026
DC Block	PASTERNAK	PE8210	RF36	11/13/2025	11/12/2026
DC Power Supply	Gwinstek	SPD-3606	GEV923152	05/14/2026	05/13/2027
Temperature Chamber	Haich	HC-TOPH-30-CHP	QHC20230320-100-2	08/20/2026	08/19/2027
Radio Communication Analyer	Anritsu	MT8820C	6200971023	10/20/2025	10/19/2026
Splitter	Woken	DOM35LW1A2	RF56	11/13/2025	11/12/2026
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Coaxial Cables	TITAN	T0710ASFF14110A60	RF86	11/13/2025	11/12/2026
Coaxial Cables	TITAN	T0710ASFF14110A60	RF87	11/13/2025	11/12/2026
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	10/17/2025	10/16/2026

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4.2 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber C	N/A	03/02/2026	03/01/2027
Test Software	audix	e3	E3 210616 SGS Ver.9 (C)	N.C.R	N.C.R
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/14/2025	11/13/2026
Horn Antenna	Schwarzbeck	BBHA9120D	1187	02/06/2026	02/05/2027
Horn Antenna	RF SPIN	DRH0844	KV2E12A0844	01/23/2026	01/22/2027
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104- SM-SM- 6000+EMC105-SM- SM-12000+15	W13.01+150813+23 10002+15	11/13/2025	11/12/2026
Coaxial Cable	SUCCOFLEX	SUCCOFLEX 102	MY2153/2+MY5204 15/2	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC330	980091	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC184045SEE	980881	11/13/2025	11/12/2026
1G Low pass Filter	Woken	EWT-56-0019	RF156	11/13/2025	11/12/2026
800-1000 Notch Filter	Woken	EWT-54-0037	RF190	11/13/2025	11/12/2026
1700-2000 Notch Filter	Woken	EWT-54-0038	RF185	11/13/2025	11/12/2026
Radio Communication Analyser	Anritsu	MT8820C	6201061014	08/25/2026	8/24/2027
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	06/02/2026	06/01/2027

NOTE: N.C.R refers to Not Calibrated Required.

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5 REGULATORY REQUIREMENTS

5.1 Maximum Output Power

§22.913(a)(5)

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts

§24.232(c)

Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications

§27.50(d)(4)

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

5.2 Occupied Bandwidth Measurement

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

5.3 Out Of Band Emission At Antenna Terminals

§22.917(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

§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

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§27.53(h)(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

5.4 Field Strength Of Spurious Radiation Measurement

§22.917(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

§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(h)(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

5.5 Frequency Stability

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

5.6 Peak to Average Ratio

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

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6 TEST CONFIGURATION

6.1 Maximum Output Power



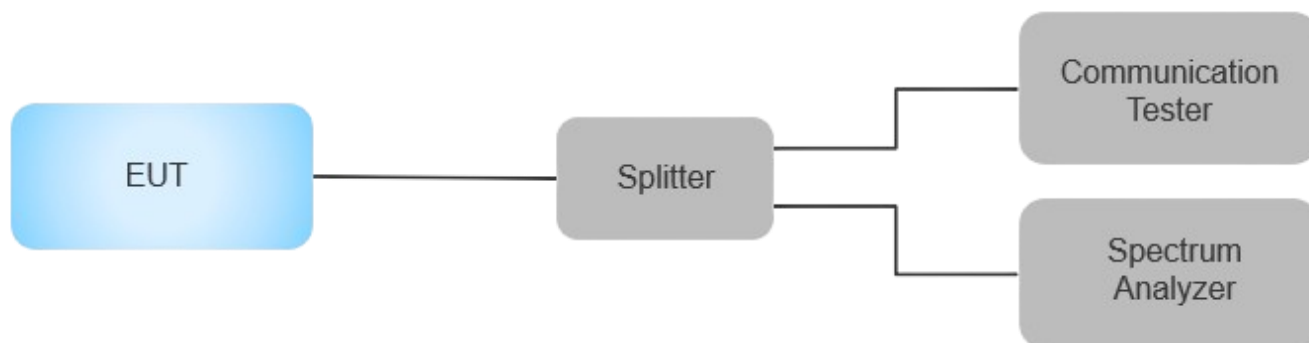
Note: Measurement setup for testing on Antenna connector

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and RMC 12.2kps is used for Base station setting. KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

6.2 Occupied Bandwidth Measurement



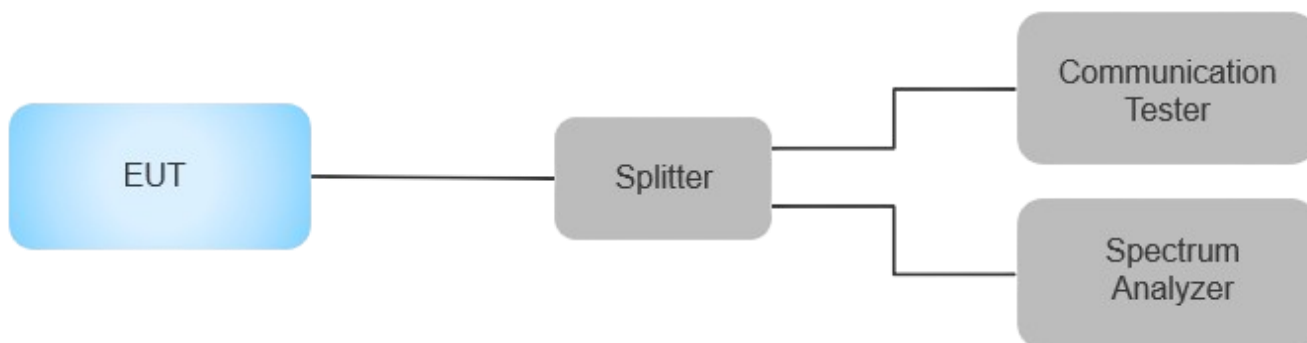
99% & 26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW $\geq 3 * RBW$, with span $> 2 * \text{Signal BW}$, set % Power = 99%.

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6.3 Out Of Band Emission At Antenna Terminals



6.3.1 Out Of Band Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

To connect Antenna Port of EUT to Spectrum.

Set RBW = 1MHz & VBW = 1MHz on Spectrum.

Allow trace to fully stabilize

Repeat above procedures until all default test channel measured were complete.

6.3.2 Band Edge

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

To connect Antenna Port of EUT to Spectrum.

Set RBW = 1MHz & VBW = 1MHz on Spectrum.

Allow trace to fully stabilize

Repeat above procedures until all default test channel measured were complete.

1. To connect Antenna Port of EUT to Spectrum.
 2. The band edge of low and high channels for the highest RF powers was measured.
- Setting RBW $\geq$ 1% EBW.
3. Detector = Average
 4. Allow trace to fully stabilize
 5. Repeat above procedures until all default test channel measured were complete.

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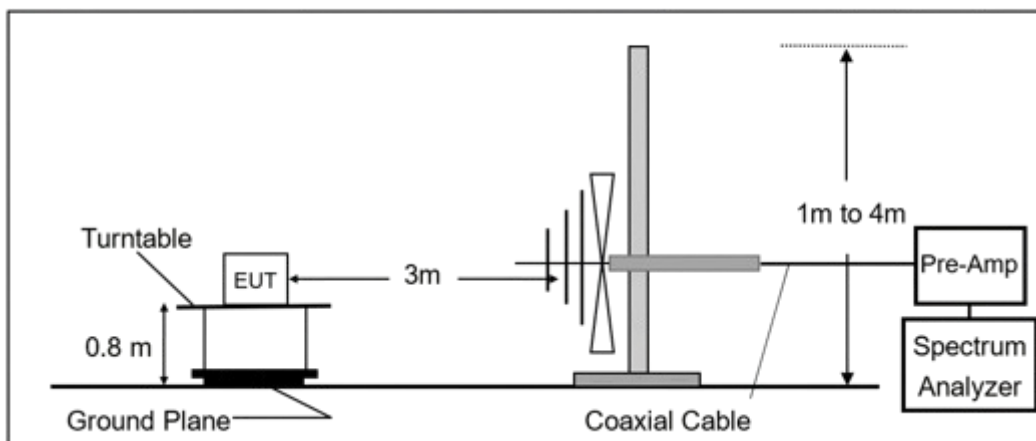
6.4 Field Strength Of Spurious Radiation Measurement

For Measurements From 9 kHz To 30 MHz

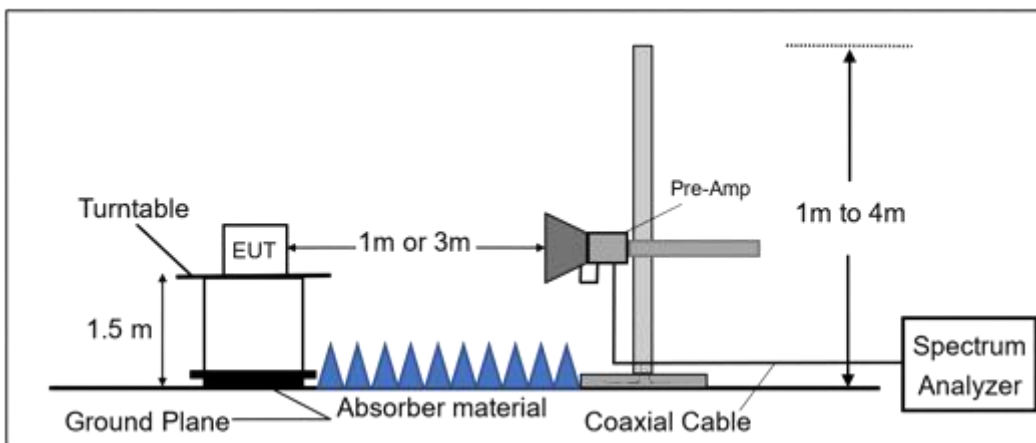
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



The Equipment Under Test (EUT) was positioned on a non-conductive turntable that rotates 360 degrees. The receiving antenna was placed 3 meters from the EUT, with height varied between 1-4 meters to maximize emission detection.

To identify maximum emission levels, the following parameters were optimized:

EUT azimuth angle through 360-degree rotation

EUT orientation in three orthogonal axes

Antenna height (1-4 meters)

Antenna polarization (horizontal and vertical)

For frequencies above 1 GHz, measurements were conducted with the antenna

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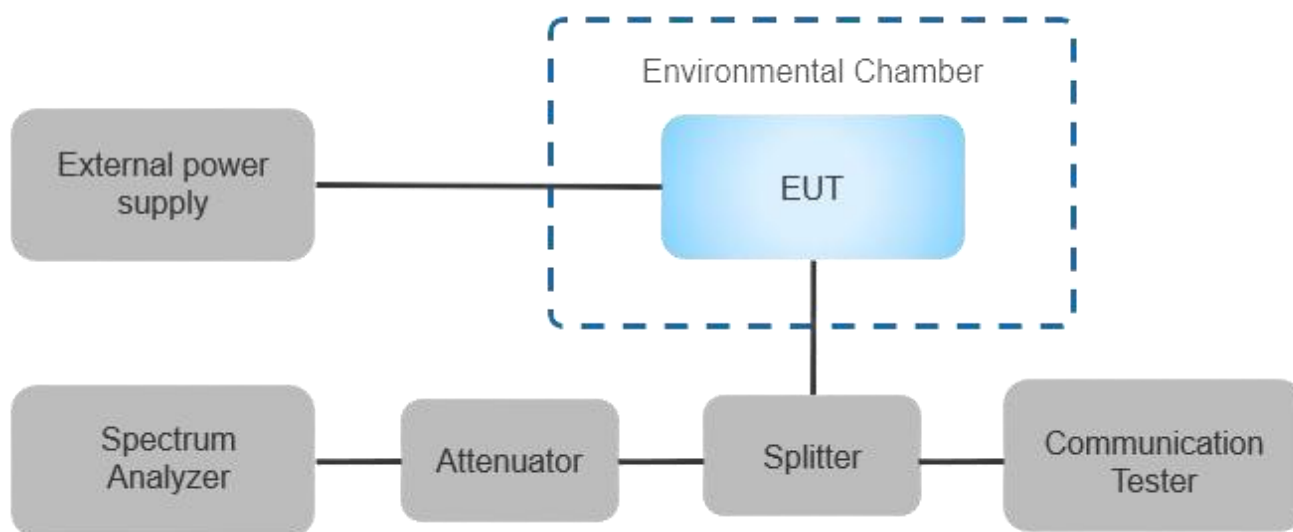
maintained within the 3dB illumination bandwidth and pointed toward the EUT in both azimuth and elevation angles.

The frequency range extending to the tenth harmonic was investigated for three fundamental frequencies (low, middle, and high channels). Spurious emissions were identified and their power levels determined using the substitution method. The spurious emission attenuation was calculated as the difference between the radiated power at the fundamental frequency and the spurious emission frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

6.5 Frequency Stability Measurement



The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

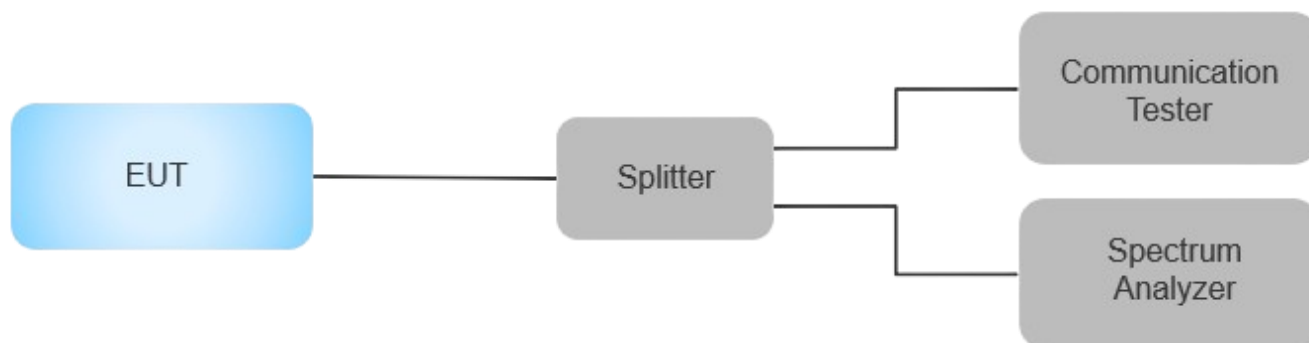
Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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6.6 Peak To Average Ratio



1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth; & internal = 1ms
3. As an alternative, the highest power level measured in a narrower RBW (relative to the specified reference bandwidth) can be scaled by applying a correction factor determined from: $10 \log [(reference\ bandwidth) / (resolution\ or\ measurement\ band-width)]$.
4. Set the number of counts to a value that stabilizes the measured CCDF curve.

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7 TEST RESULTS

7.1 Maximum Output Power

7.1.1 GSM

GSM/GPRS/EDGE (GMSK; 8-PSK) Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
GPRS 850	824.2	128	32.32	0.30	30.47	32.62	38.50	-8.03
	836.6	190	32.21	0.30	30.36	32.51	38.50	-8.14
	848.8	251	32.21	0.30	30.36	32.51	38.50	-8.14
GPRS 1900	1850.2	512	29.31	1.80	28.96	31.11	33.00	-1.89
	1880.0	661	29.77	1.80	29.42	31.57	33.00	-1.43
	1909.8	810	29.68	1.80	29.33	31.48	33.00	-1.52
EDGE 850	824.2	128	26.15	0.30	24.30	26.45	38.50	-14.20
	836.6	190	25.99	0.30	24.14	26.29	38.50	-14.36
	848.8	251	25.96	0.30	24.11	26.26	38.50	-14.39
EDGE 1900	1850.2	512	24.68	1.80	24.33	26.48	33.00	-6.52
	1880.0	661	24.81	1.80	24.46	26.61	33.00	-6.39
	1909.8	810	24.65	1.80	24.30	26.45	33.00	-6.55

EUT Mode	Frequency (MHz)	CH	Average Burst Power (1DN 1UP) Class 8 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 3UP) Class 12 (dBm)	Average Burst Power (1DN 4UP) Class 12 (dBm)
GPRS 850	824.2	128	32.32	31.84	29.16	28.37
	836.6	190	32.21	31.64	29.31	28.17
	848.8	251	32.21	31.81	29.41	28.04
GPRS 1900	1850.2	512	29.31	28.85	26.73	25.36
	1880.0	661	29.77	28.83	26.57	25.40
	1909.8	810	29.68	29.25	26.78	25.64
EDGE 850	824.2	128	26.15	25.23	22.62	21.76
	836.6	190	25.99	25.03	23.09	21.62
	848.8	251	25.96	24.65	23.07	22.14
EDGE 1900	1850.2	512	24.68	24.39	22.45	21.35
	1880.0	661	24.81	24.23	22.13	21.37
	1909.8	810	24.65	24.44	22.03	20.90

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7.1.2 WCDMA & HSPA ERP/EIRP

WCDMA/HSUPA/HSDPA Band II Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1852.4	9262	22.92	1.80	22.57	24.72	33.00	-8.28
	1880.0	9400	22.86	1.80	22.51	24.66	33.00	-8.34
	1907.6	9538	22.98	1.80	22.63	24.78	33.00	-8.22
HSDPA	1852.4	9262	22.66	1.80	22.31	24.46	33.00	-8.54
	1880.0	9400	22.61	1.80	22.26	24.41	33.00	-8.59
	1907.6	9538	22.67	1.80	22.32	24.47	33.00	-8.53
HSUPA	1852.4	9262	22.74	1.80	22.39	24.54	33.00	-8.46
	1880.0	9400	22.67	1.80	22.32	24.47	33.00	-8.53
	1907.6	9538	22.62	1.80	22.27	24.42	33.00	-8.58

WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1712.4	1312	23.13	1.20	22.18	24.33	30.00	-5.67
	1732.6	1413	22.73	1.20	21.78	23.93	30.00	-6.07
	1752.6	1513	22.93	1.20	21.98	24.13	30.00	-5.87
HSDPA	1712.4	1312	22.50	1.20	21.55	23.70	30.00	-6.30
	1732.6	1413	22.19	1.20	21.24	23.39	30.00	-6.61
	1752.6	1513	22.20	1.20	21.25	23.40	30.00	-6.60
HSUPA	1712.4	1312	22.58	1.20	21.63	23.78	30.00	-6.22
	1732.6	1413	22.05	1.20	21.10	23.25	30.00	-6.75
	1752.6	1513	22.25	1.20	21.30	23.45	30.00	-6.55

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WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	23.00	0.30	21.15	23.30	38.50	-17.35
	836.6	4183	23.06	0.30	21.21	23.36	38.50	-17.29
	846.6	4233	23.16	0.30	21.31	23.46	38.50	-17.19
HSDPA	826.4	4132	22.76	0.30	20.91	23.06	38.50	-17.59
	836.6	4183	22.84	0.30	20.99	23.14	38.50	-17.51
	846.6	4233	22.79	0.30	20.94	23.09	38.50	-17.56
HSUPA	826.4	4132	22.83	0.30	20.98	23.13	38.50	-17.52
	836.6	4183	22.77	0.30	20.92	23.07	38.50	-17.58
	846.6	4233	22.73	0.30	20.88	23.03	38.50	-17.62

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7.1.3 HSDPA SUB-TEST Setting

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		9262	9400	9538
HSDPA II	1	22.66	22.61	22.67
	2	22.62	22.68	22.64
	3	22.11	22.07	22.11
	4	22.25	22.06	22.14

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		1312	1413	1513
HSDPA IV	1	22.50	22.19	22.20
	2	22.54	22.12	22.23
	3	22.06	21.67	21.48
	4	21.97	21.58	21.70

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132	4183	4233
HSDPA V	1	22.76	22.84	22.79
	2	22.81	22.68	22.79
	3	22.20	22.23	22.26
	4	22.13	22.44	22.33

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7.1.4 HSPA SUB-TEST Setting

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		9262	9400	9538
HSUPA II	1	22.74	22.67	22.62
	2	22.20	22.10	22.33
	3	22.72	22.66	22.68
	4	22.70	22.60	22.69
	5	22.69	22.66	22.74

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		1312	1413	1513
HSUPA IV	1	22.58	22.05	22.25
	2	22.10	21.67	21.77
	3	22.56	22.14	22.21
	4	22.56	22.02	22.22
	5	22.42	22.13	22.27

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132	4183	4233
HSUPA V	1	22.83	22.77	22.73
	2	22.33	22.26	22.23
	3	22.77	22.99	22.74
	4	22.86	22.81	22.80
	5	22.96	22.89	23.00

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7.2 Occupied Bandwidth

Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		GPRS 850	EDGE 850	GPRS 850	EDGE 850
824.2	128	0.23972	0.24476	0.3170	0.3032
836.6	190	0.24446	0.24621	0.3187	0.3070
848.8	251	0.24275	0.23971	0.3163	0.3111

Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		GPRS 1900	EDGE 1900	GPRS 1900	EDGE 1900
1850.2	512	0.24127	0.24120	0.3161	0.3095
1880.0	661	0.23923	0.24203	0.3067	0.3098
1909.8	810	0.24229	0.24583	0.3144	0.3101

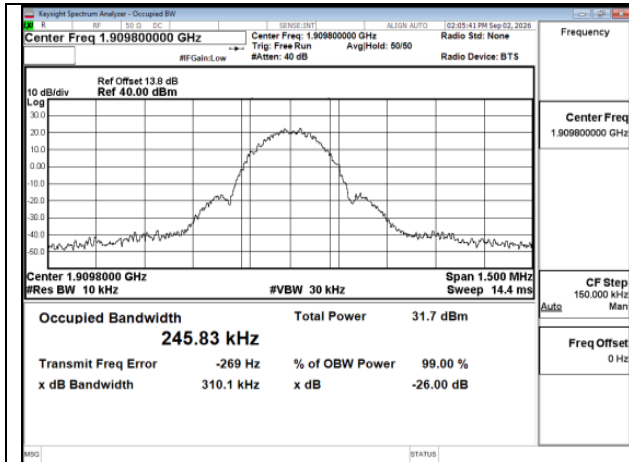
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1852.40	9262	4.15440	4.13790	4.13670	4.734	4.685	4.701
1880.00	9400	4.14630	4.14330	4.13160	4.714	4.693	4.708
1907.60	9538	4.14750	4.13760	4.14090	4.689	4.674	4.685

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV	WCDMA IV	HSDPA IV	HSUPA IV
1712.40	1312	4.14980	4.14130	4.13810	4.704	4.704	4.685
1732.60	1413	4.15060	4.13440	4.13940	4.708	4.689	4.687
1752.60	1513	4.15310	4.14400	4.15480	4.693	4.696	4.691

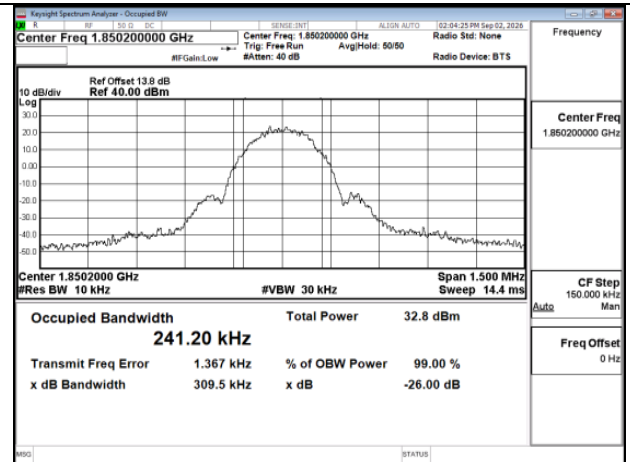
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA V	HSDPA V	HSUPA V	WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.12830	4.12460	4.13360	4.697	4.697	4.681
836.60	4183	4.12850	4.12240	4.13580	4.689	4.666	4.702
846.60	4233	4.13020	4.12750	4.12740	4.704	4.676	4.722

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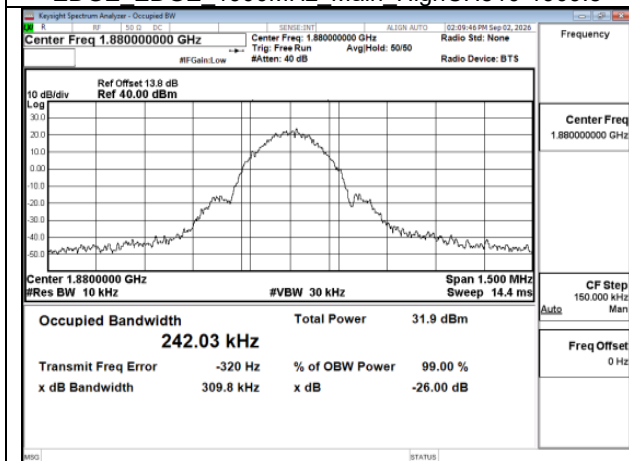
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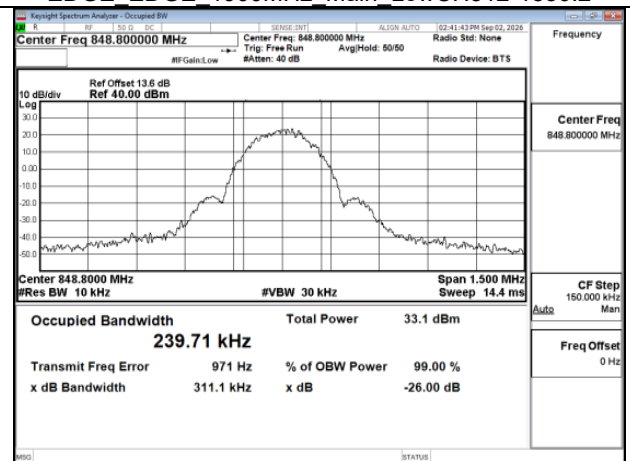
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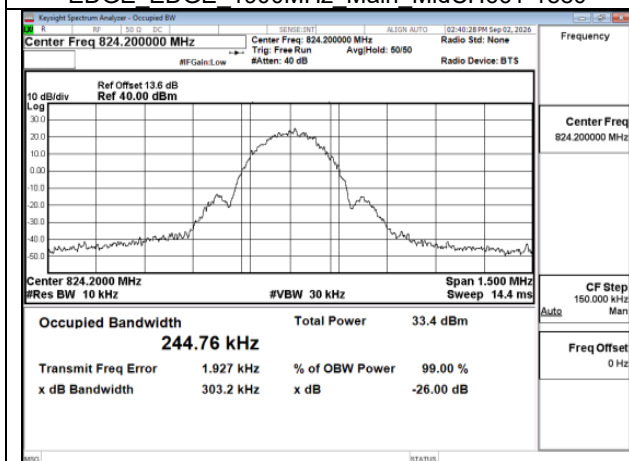
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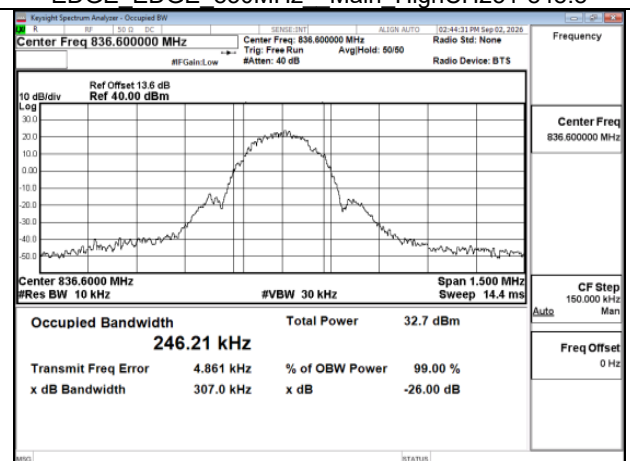
EDGE_EDGE 1900MHz Main MidCH661-1880



EDGE_EDGE 850MHz Main HighCH251-848.8



EDGE_EDGE 850MHz Main LowCH128-824.2

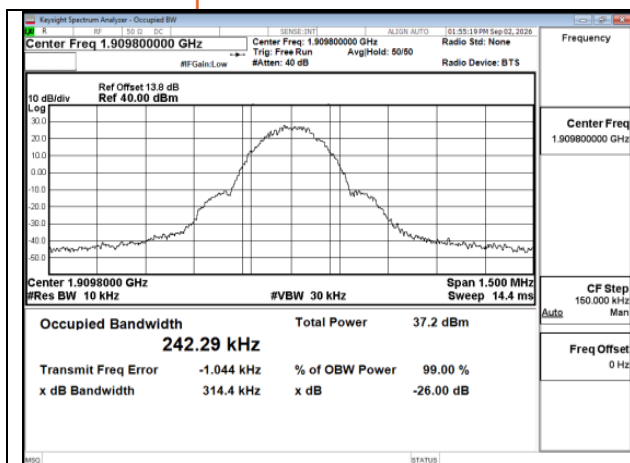


EDGE_EDGE 850MHz Main MidCH190-836.6

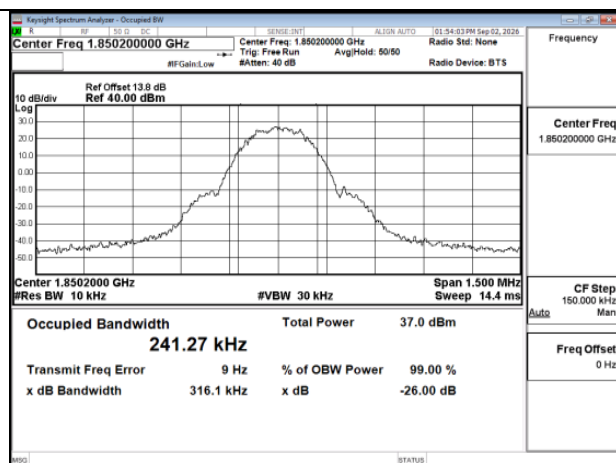
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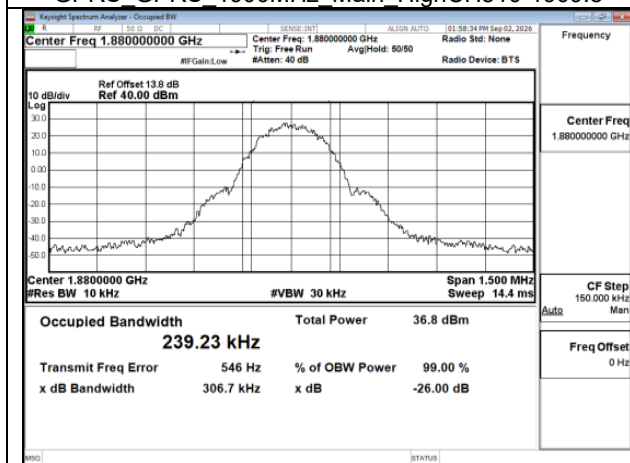
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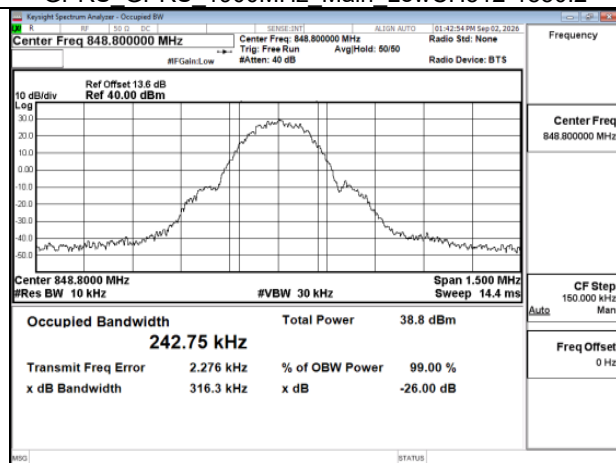
GPRS GPRS 1900MHz Main HighCH810-1909.8



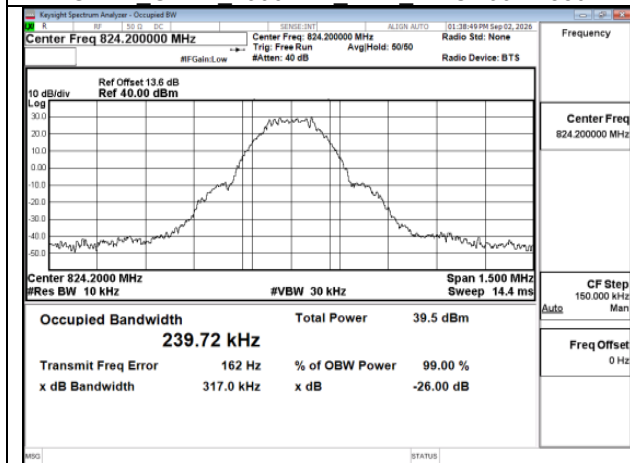
GPRS GPRS 1900MHz Main LowCH512-1850.2



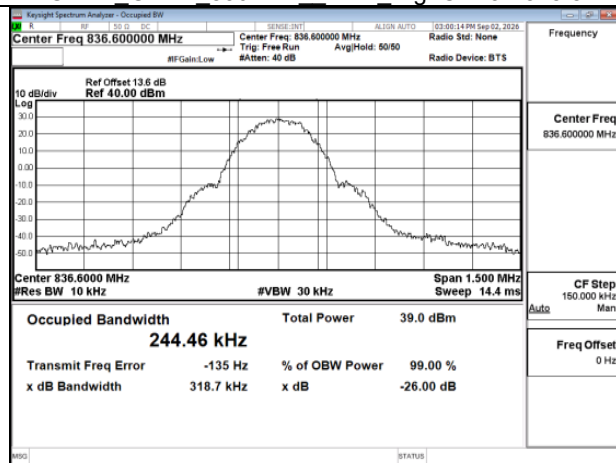
GPRS GPRS 1900MHz Main MidCH661-1880



GPRS GPRS 850MHz Main HighCH251-848.8



GPRS GPRS 850MHz Main LowCH128-824.2



GPRS GPRS 850MHz Main MidCH190-836.6

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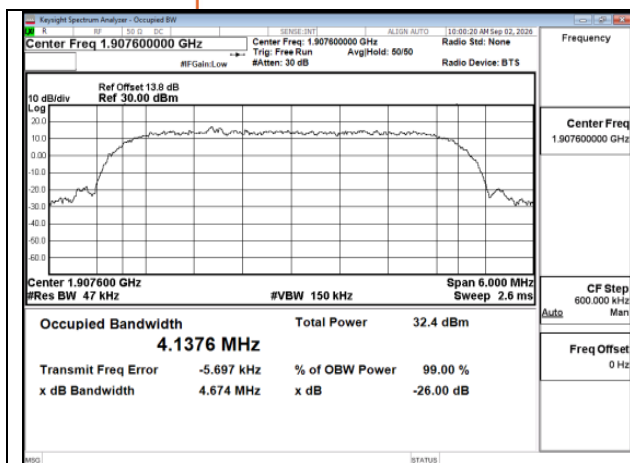
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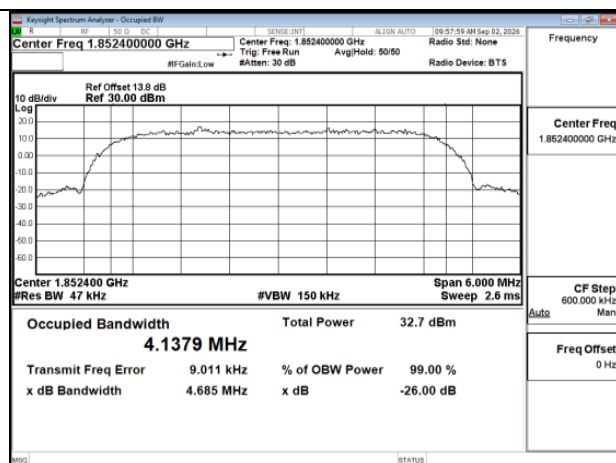
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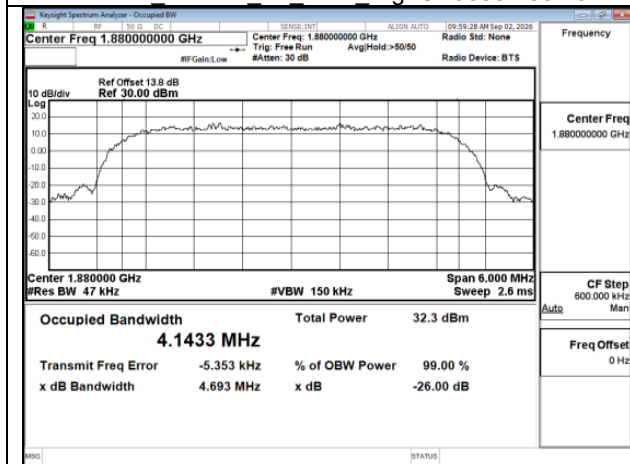
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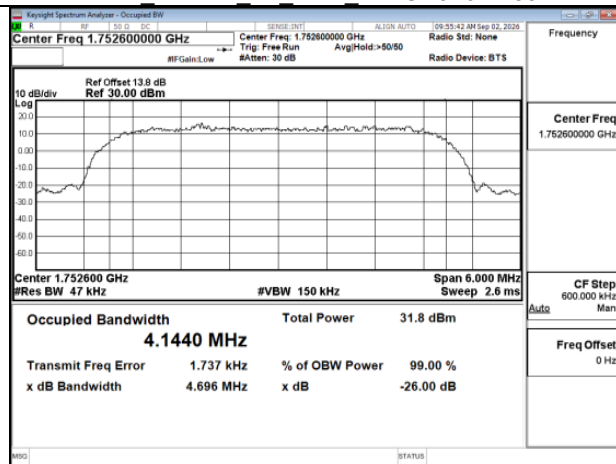
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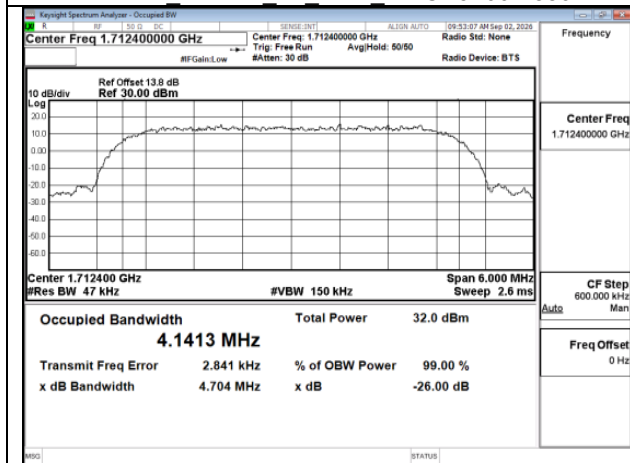
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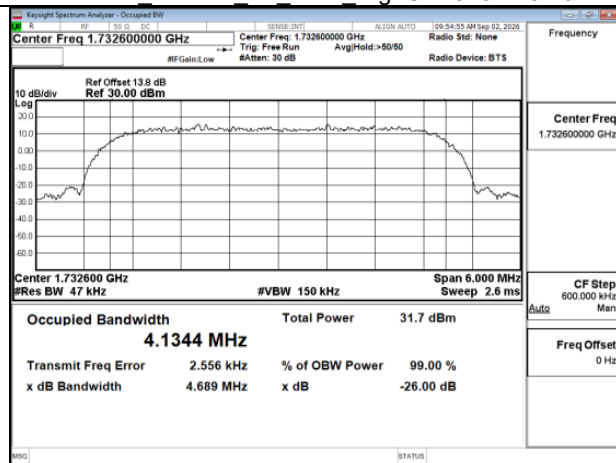
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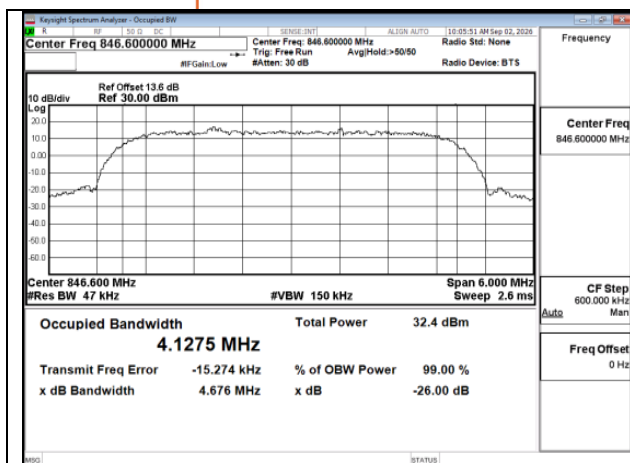


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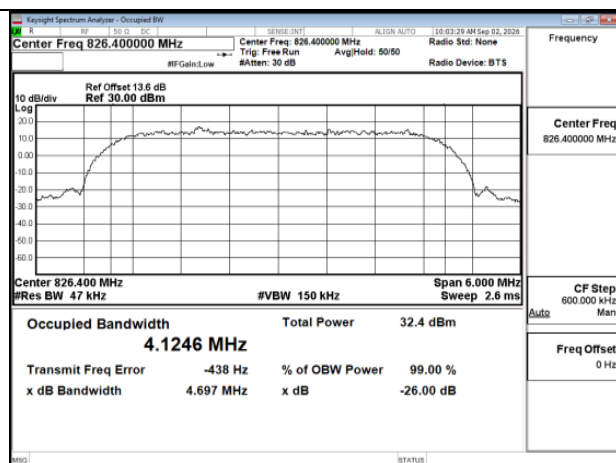
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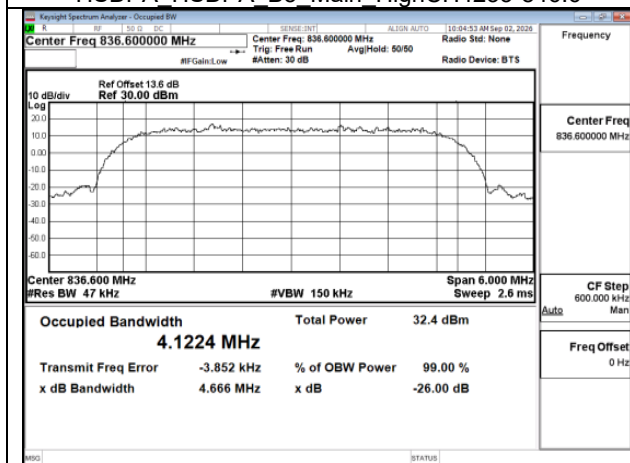
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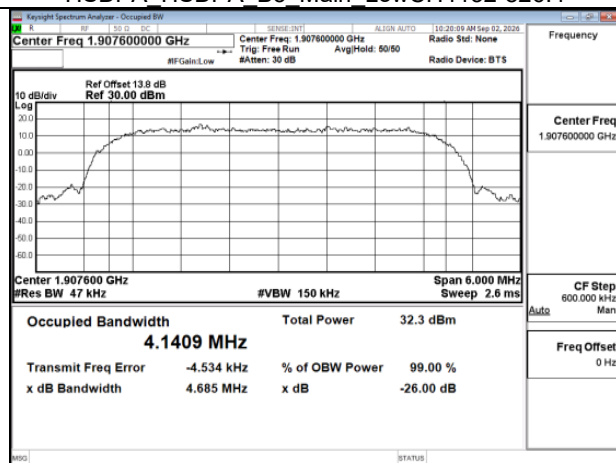
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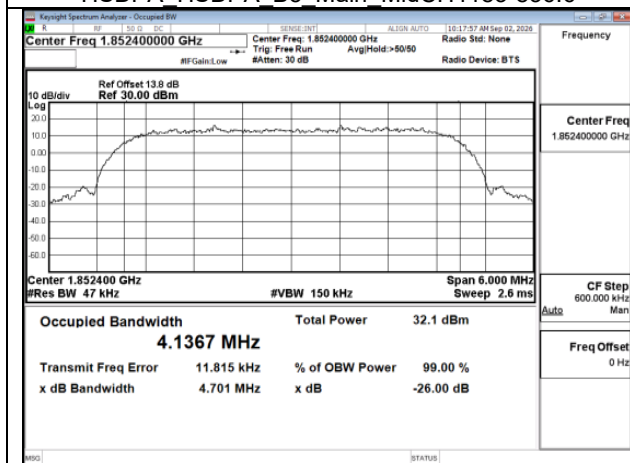
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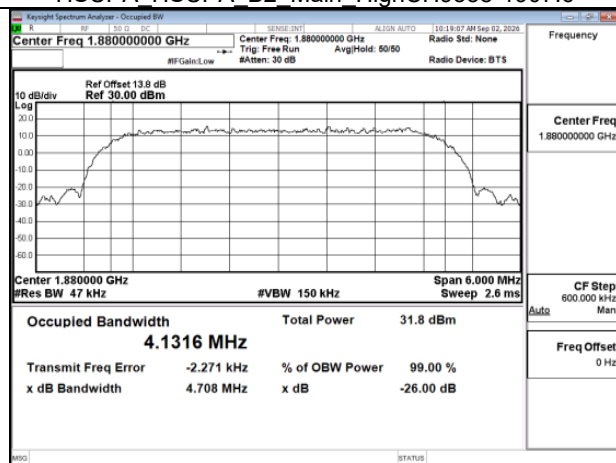
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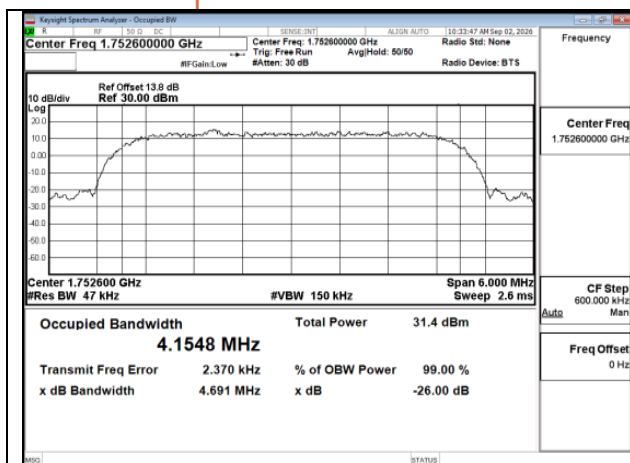


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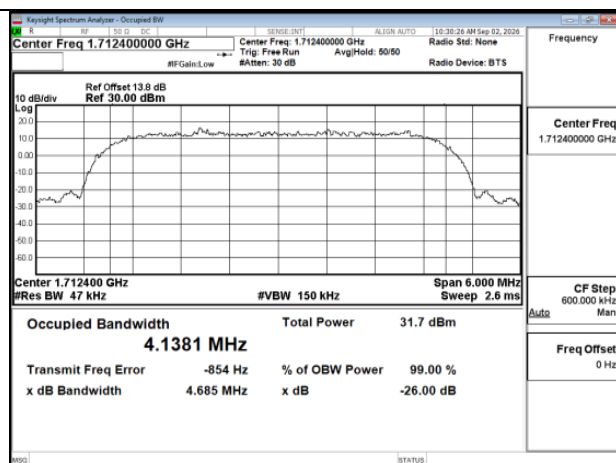
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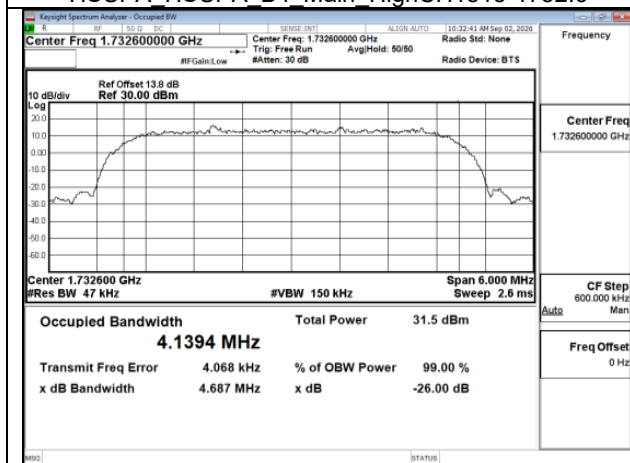
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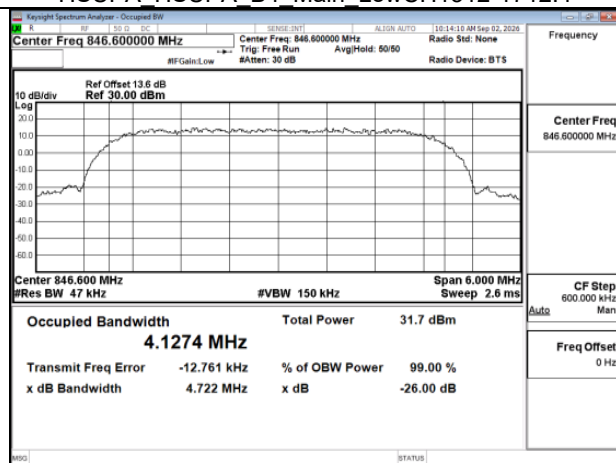
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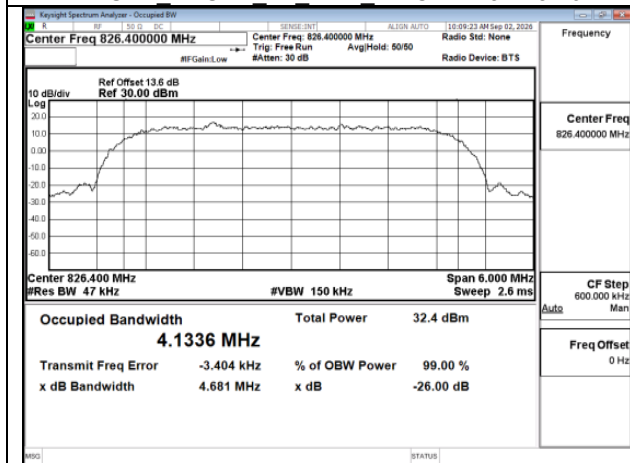
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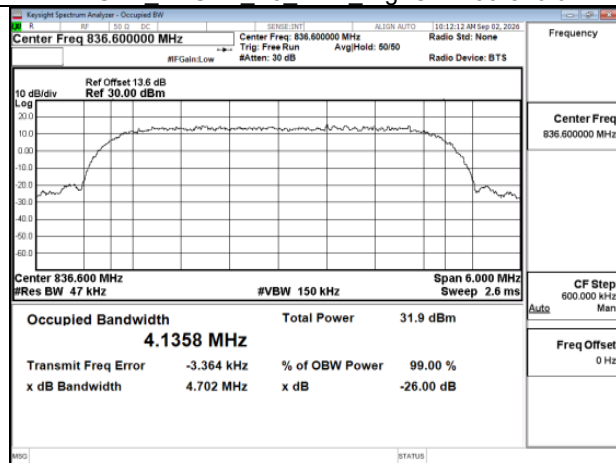
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HSPA HSUPA B5 Main LowCH4132-826.4



HSPA HSUPA B5 Main MidCH4183-836.6

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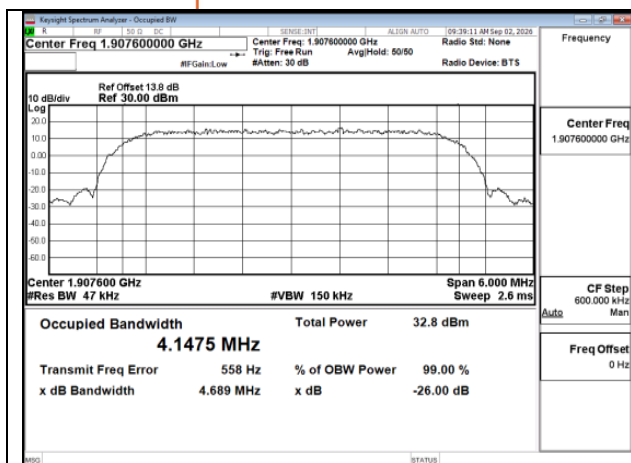
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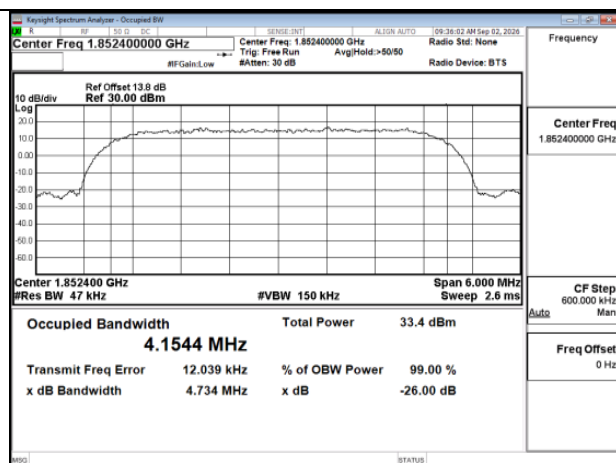
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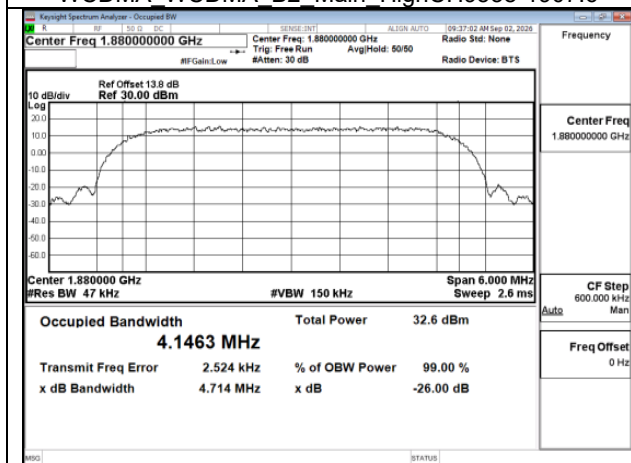
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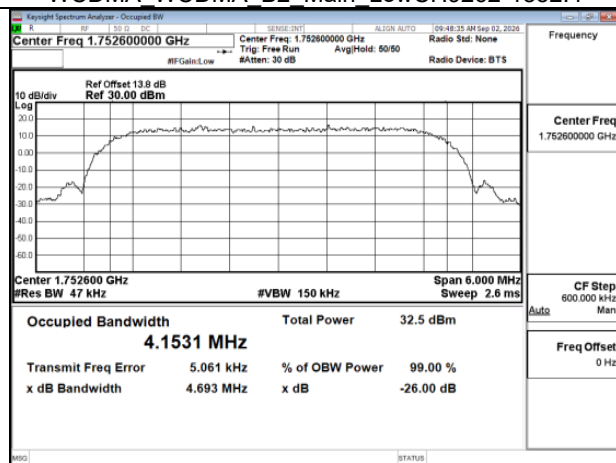
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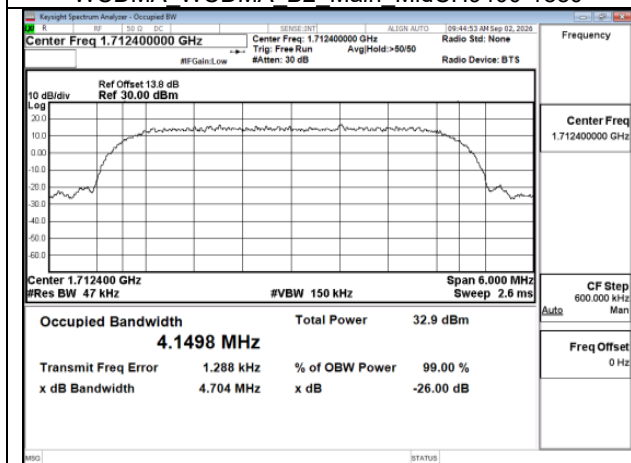
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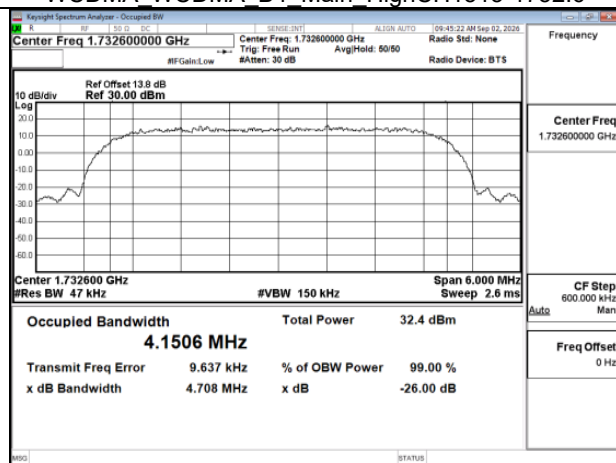
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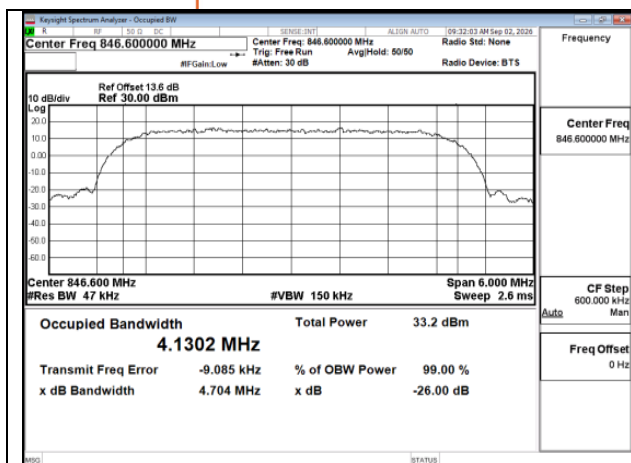
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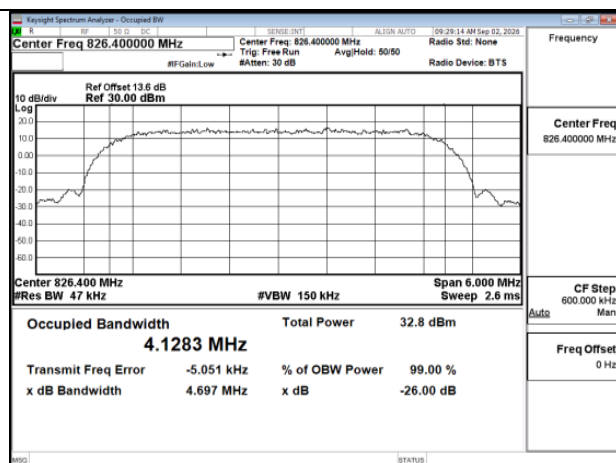
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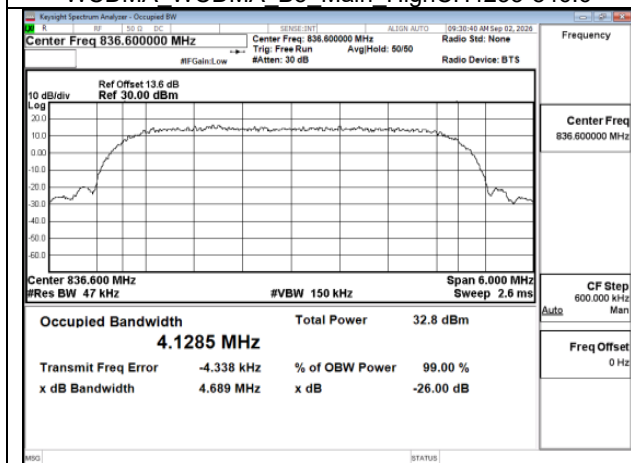
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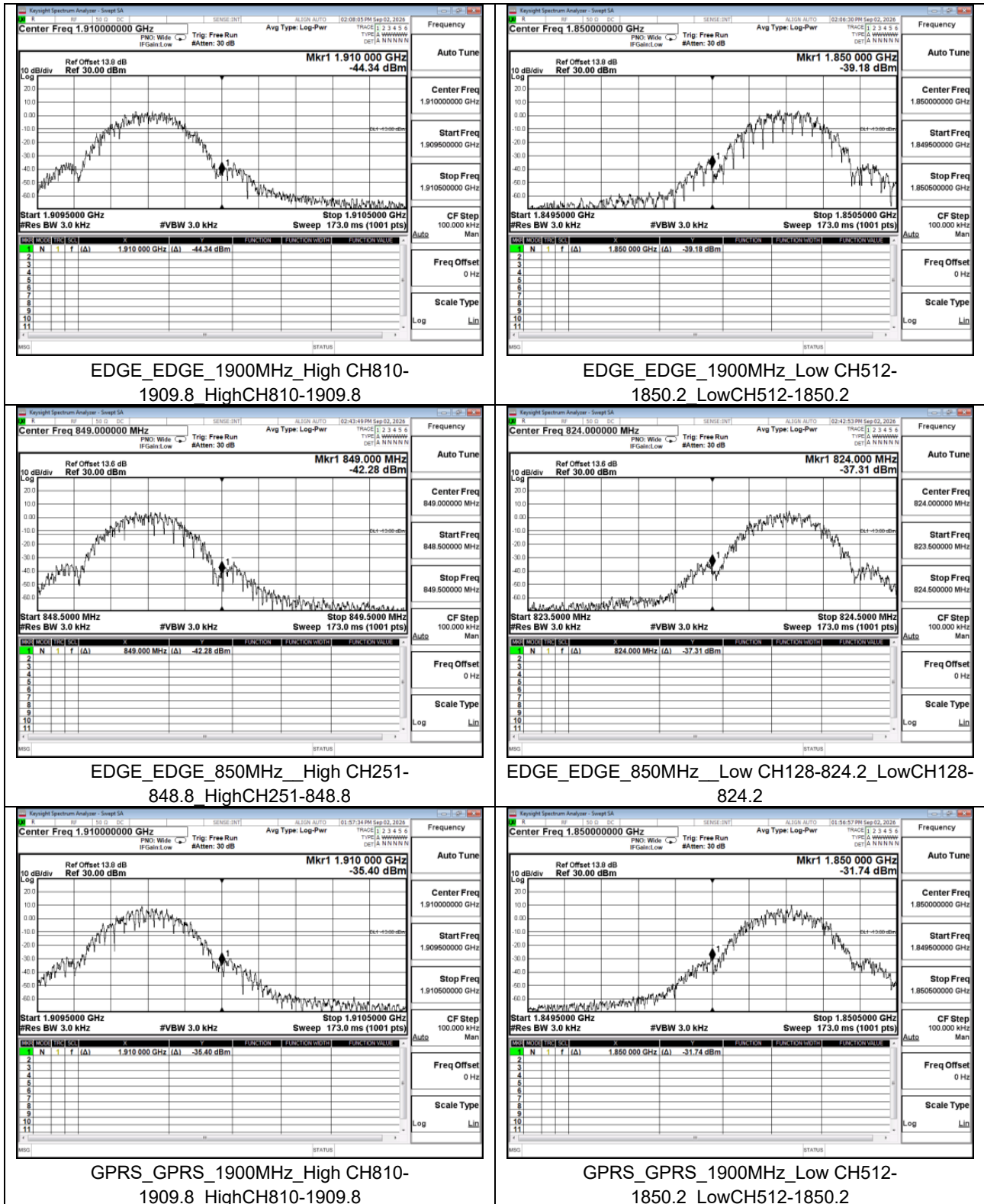
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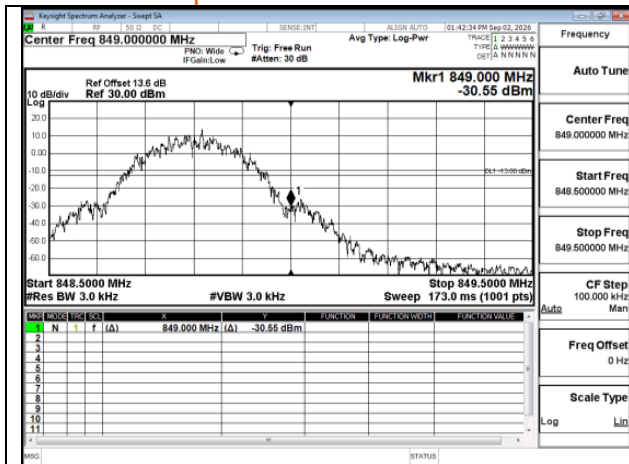
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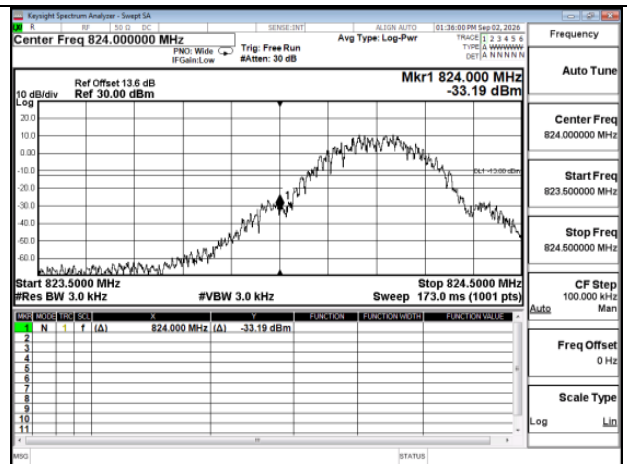
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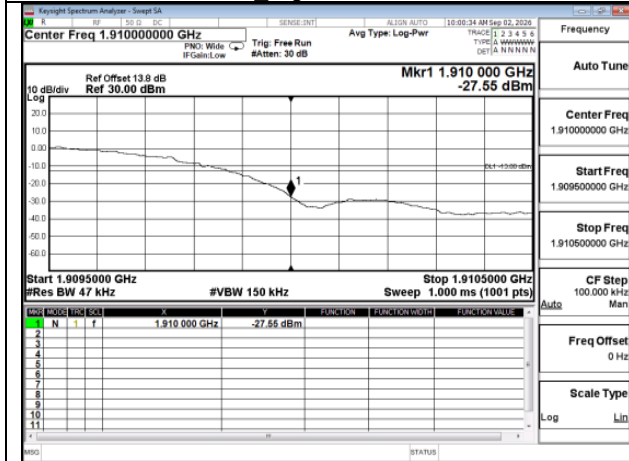
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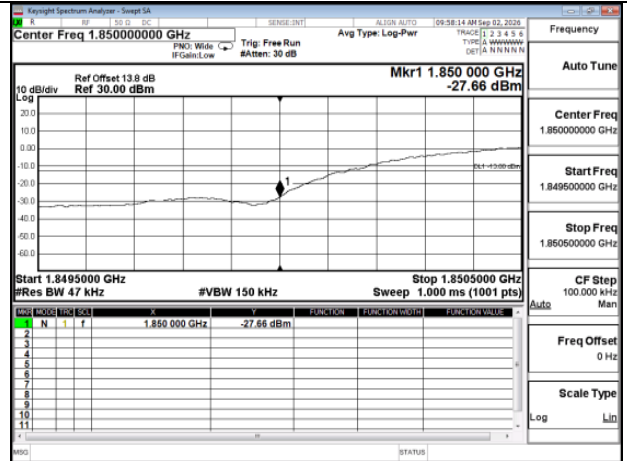
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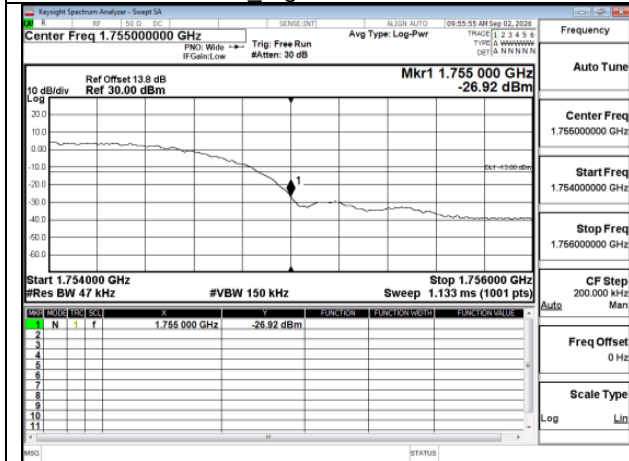
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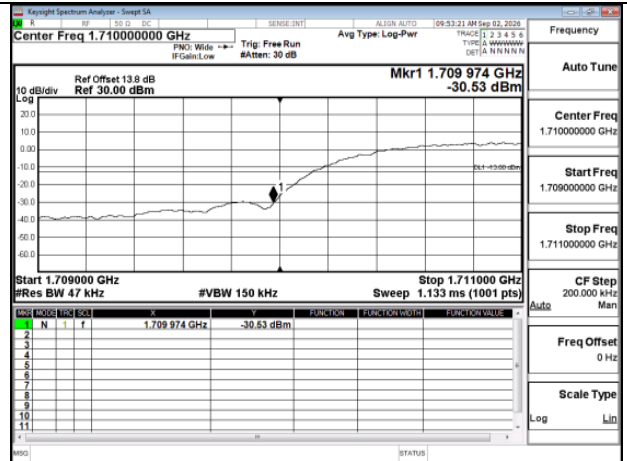
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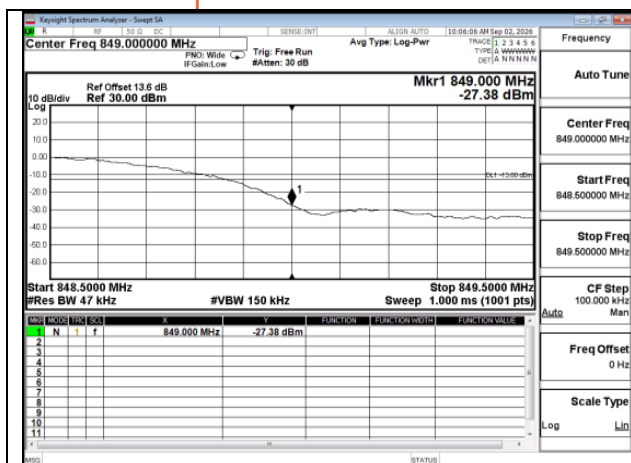


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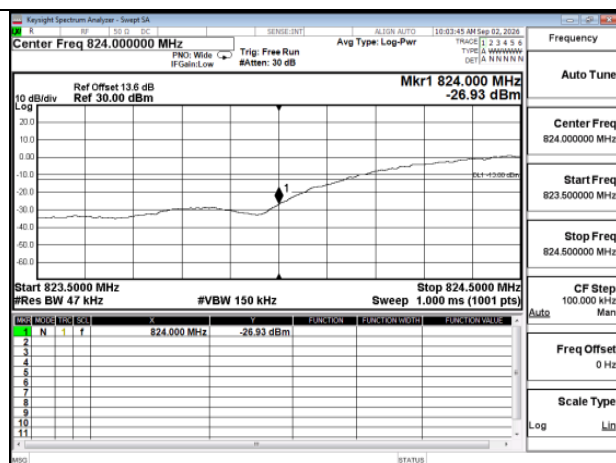
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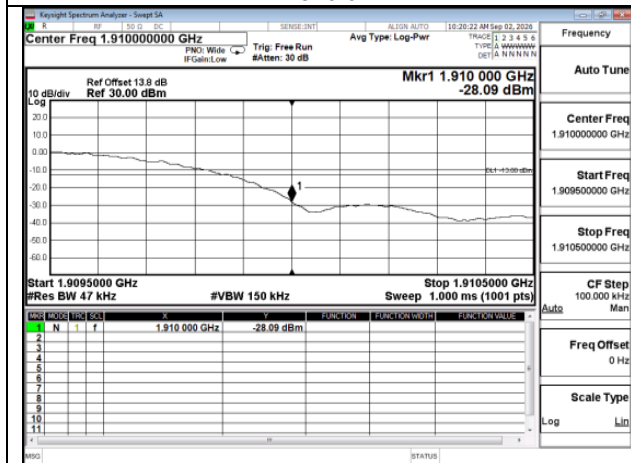
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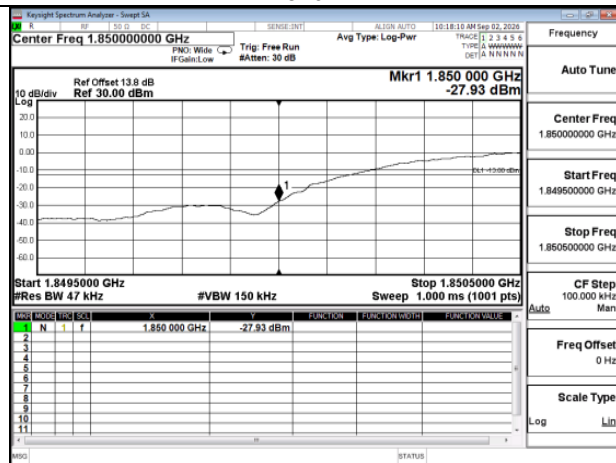
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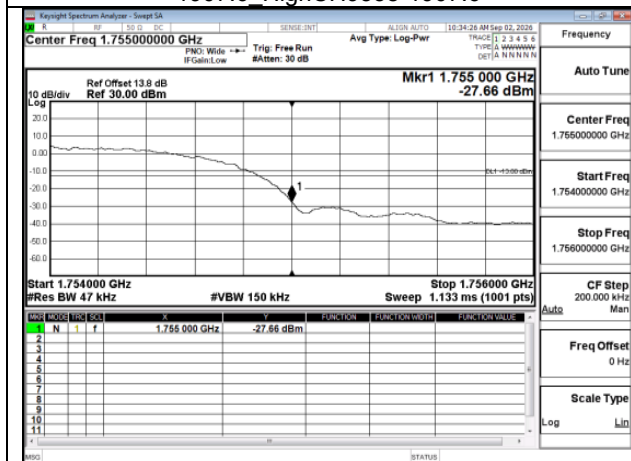
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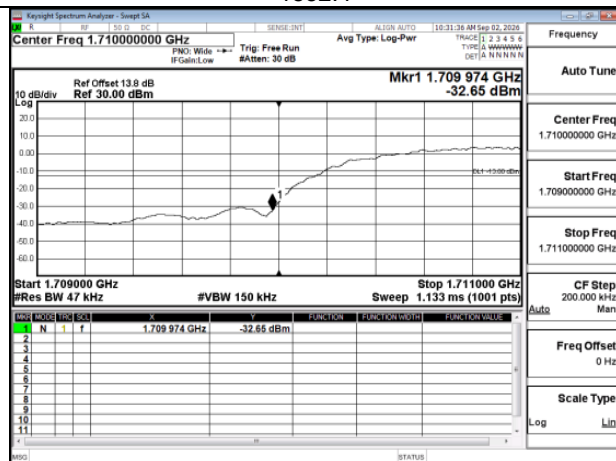
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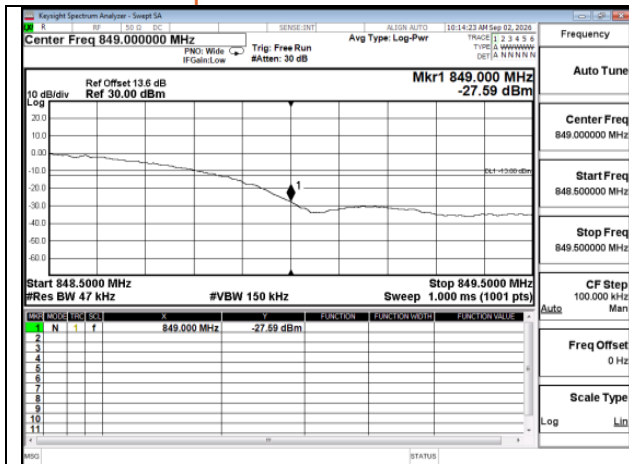


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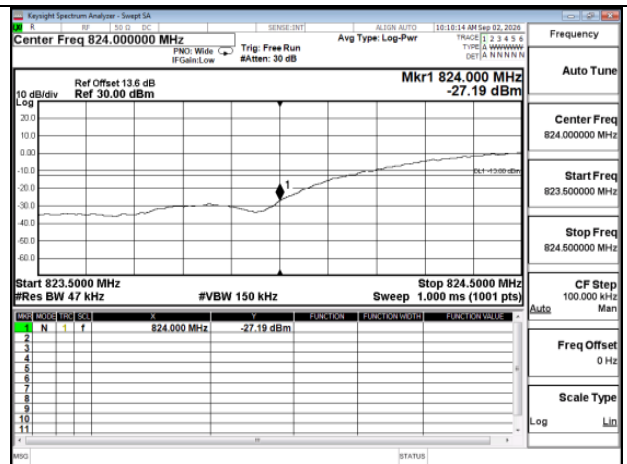
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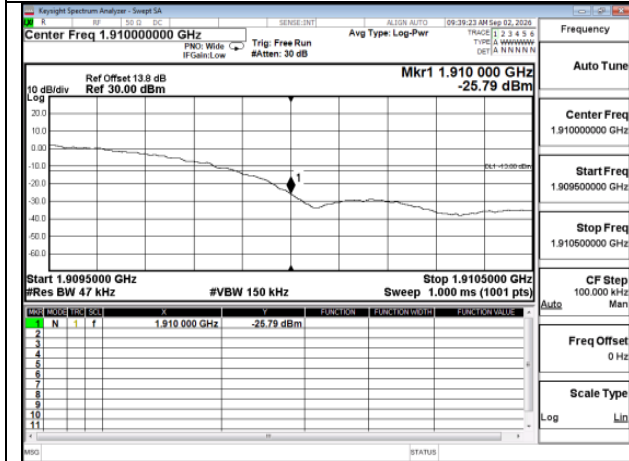
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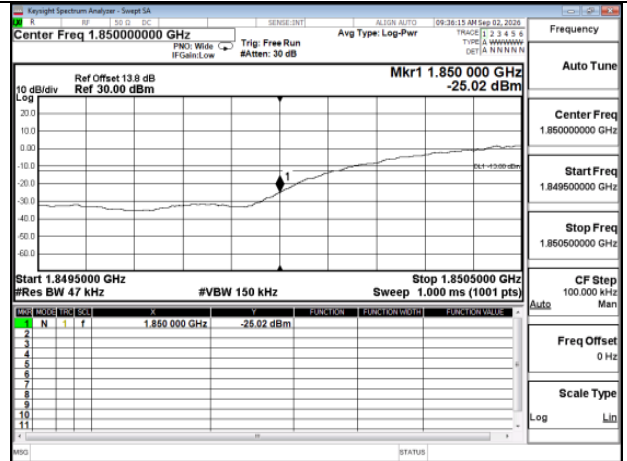
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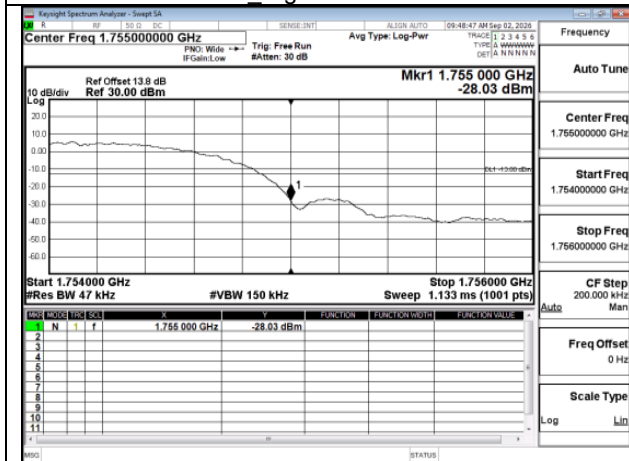
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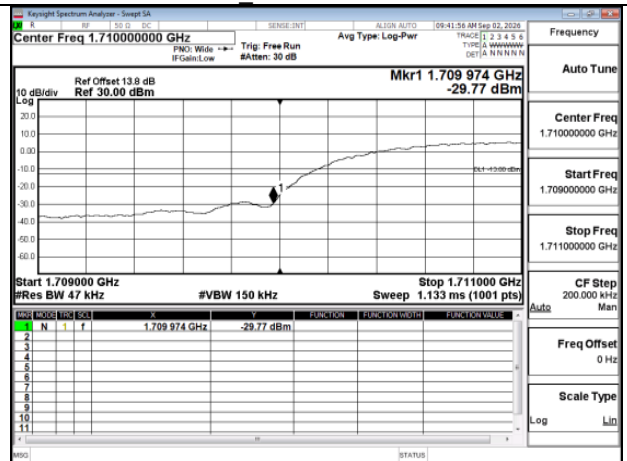
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WCDMA_WCDMA_B2_Low CH9262-1852.4_LowCH9262-1852.4



WCDMA_WCDMA_B4_High CH1513-1752.6_HighCH1513-1752.6

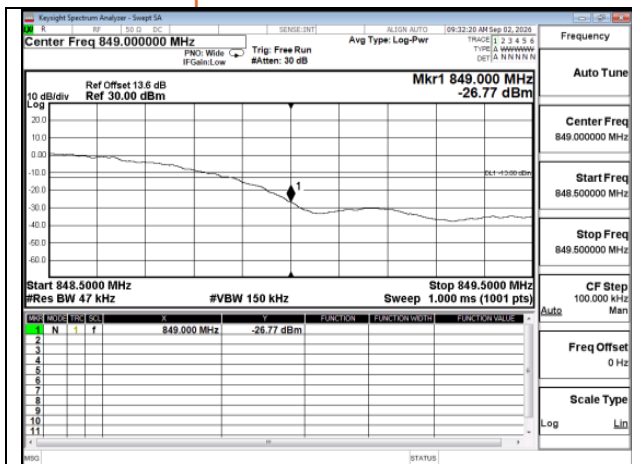


WCDMA_WCDMA_B4_Low CH1312-1712.4_LowCH1312-1712.4

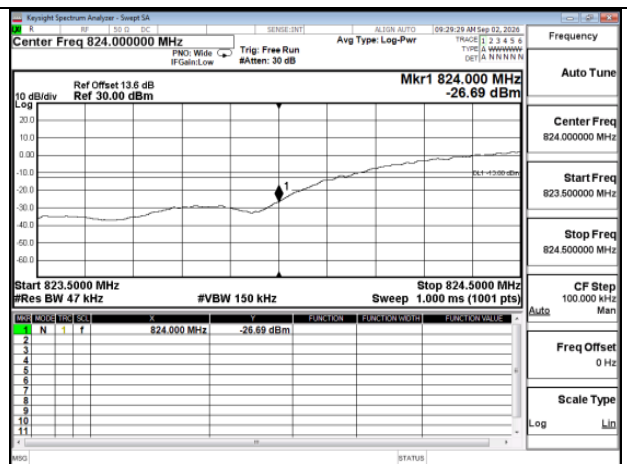
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WCDMA_WCDMA_B5_High CH4233-846.6_HighCH4233-846.6



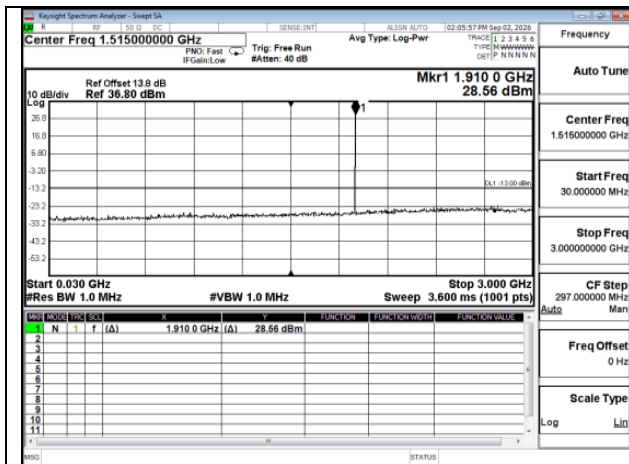
WCDMA_WCDMA_B5_Low CH4132-826.4_LowCH4132-826.4

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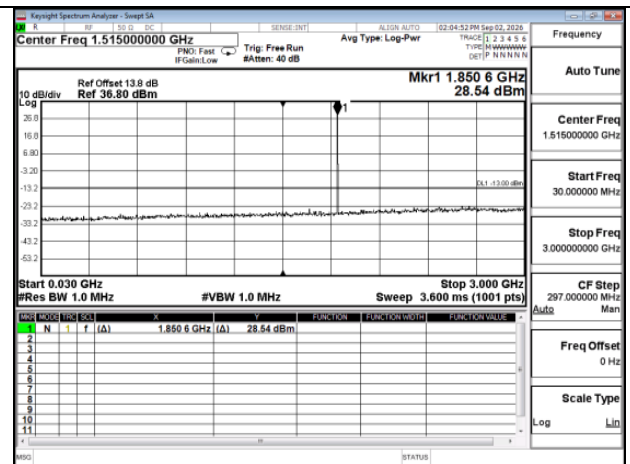
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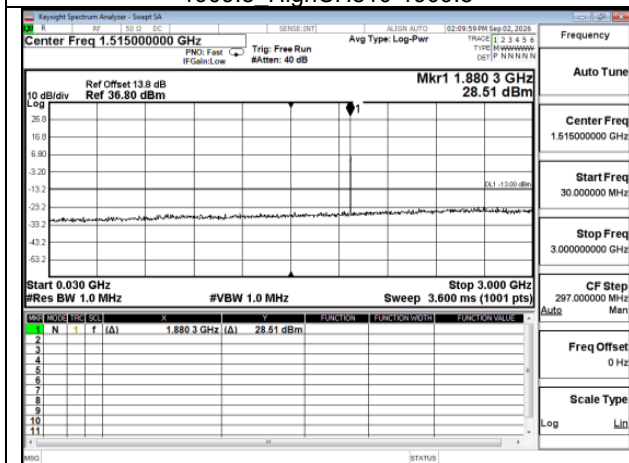
7.4 Spurious Emission At Antenna Terminals



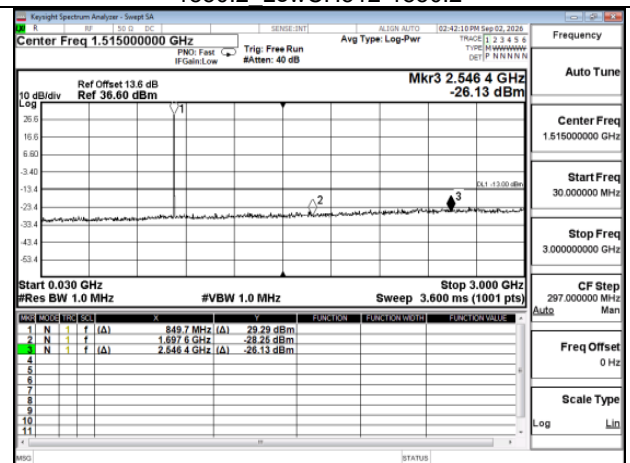
EDGE_EDGE_1900MHz_High CH810-1909.8 HighCH810-1909.8



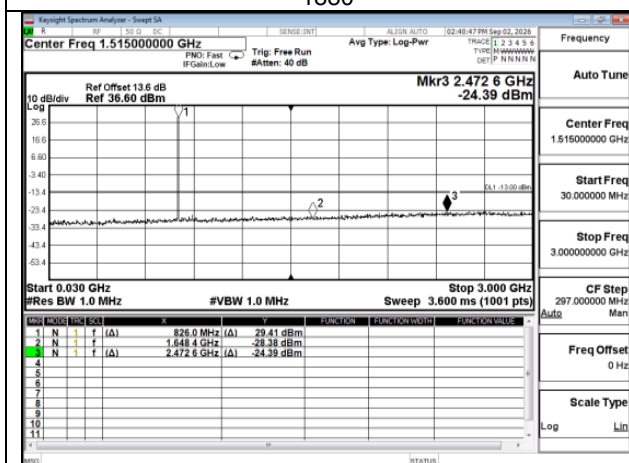
EDGE_EDGE_1900MHz_Low CH512-1850.2 LowCH512-1850.2



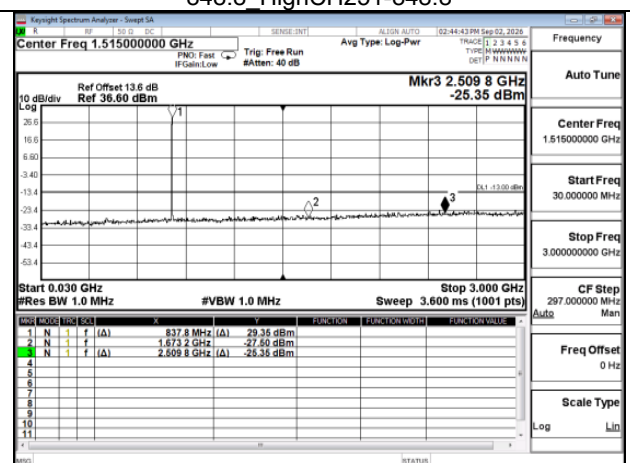
EDGE_EDGE_1900MHz_Mid CH661-1880_MidCH661-1880



EDGE_EDGE_850MHz_High CH251-848.8 HighCH251-848.8



EDGE_EDGE_850MHz_Low CH128-824.2_LowCH128-824.2

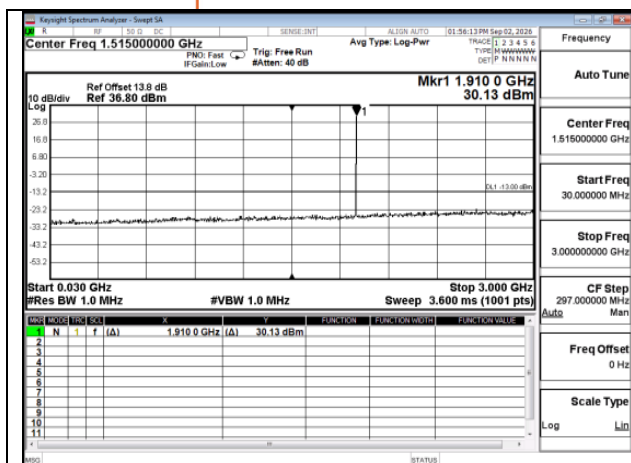


EDGE_EDGE_850MHz_Mid CH190-836.6_MidCH190-836.6

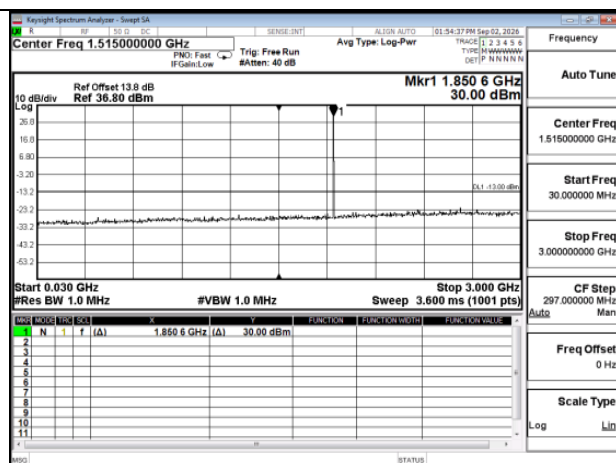
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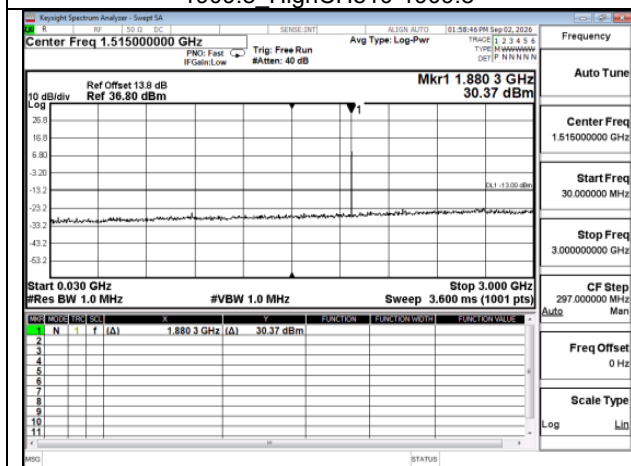
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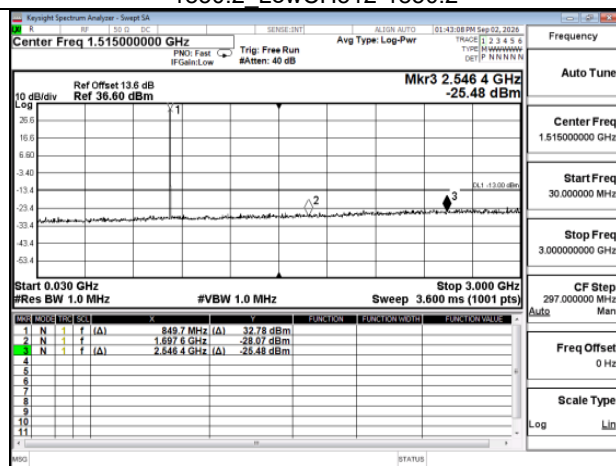
GPRS_GPRS_1900MHz_High CH810-1909.8 HighCH810-1909.8



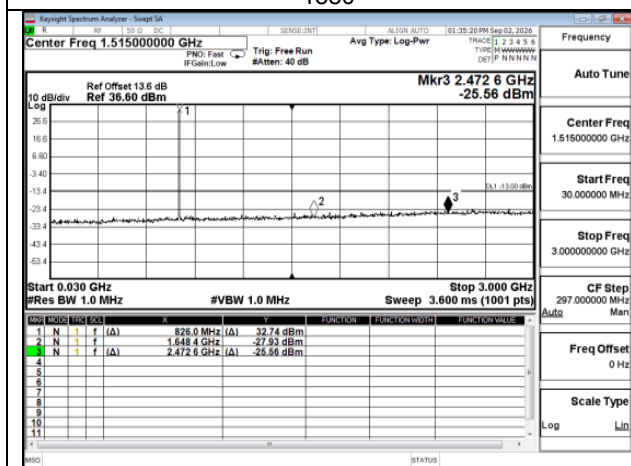
GPRS_GPRS_1900MHz_Low CH512-1850.2 LowCH512-1850.2



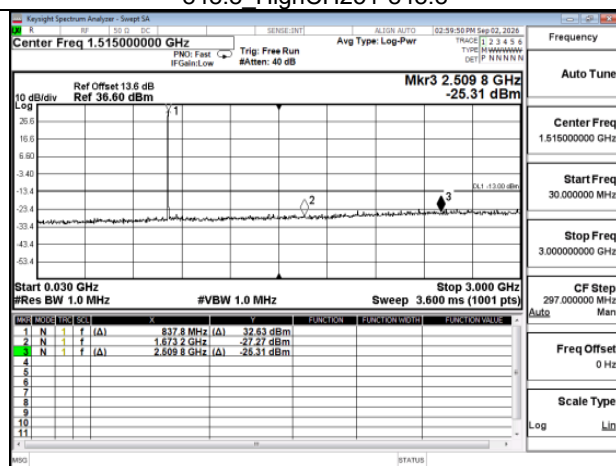
GPRS_GPRS_1900MHz_Mid CH661-1880 MidCH661-1880



GPRS_GPRS_850MHz_High CH251-848.8 HighCH251-848.8



GPRS_GPRS_850MHz_Low CH128-824.2 LowCH128-824.2

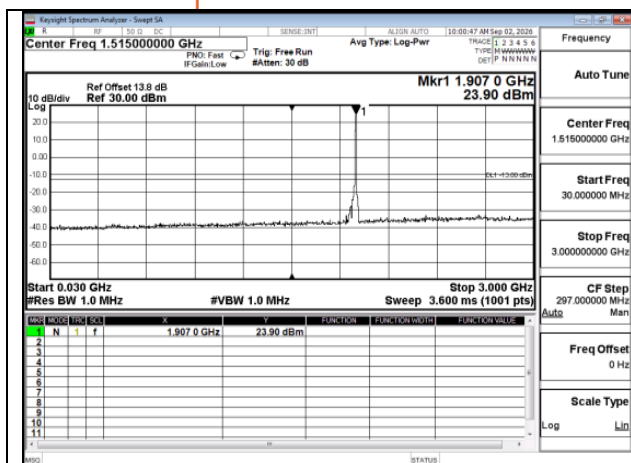


GPRS_GPRS_850MHz_Mid CH190-836.6 MidCH190-836.6

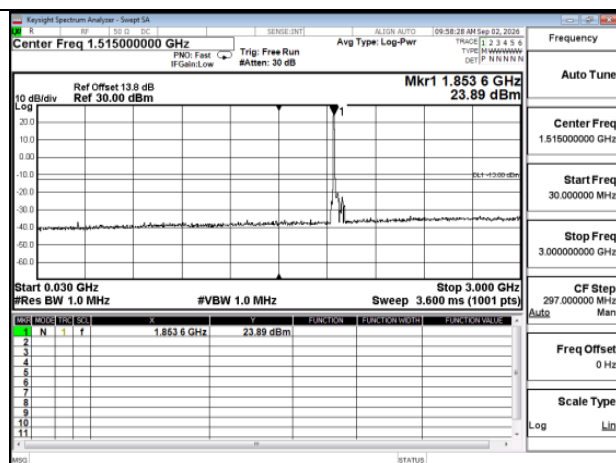
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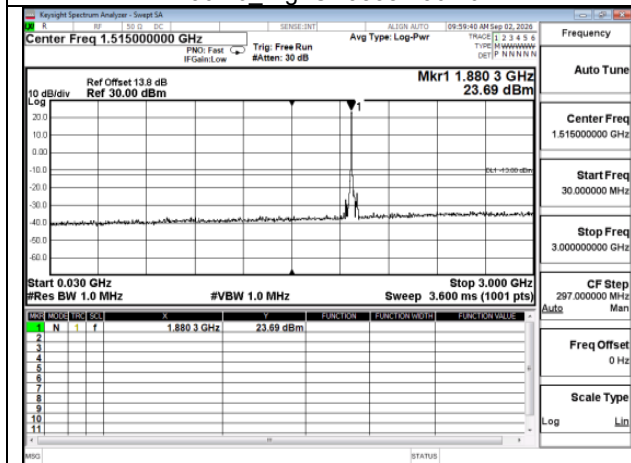
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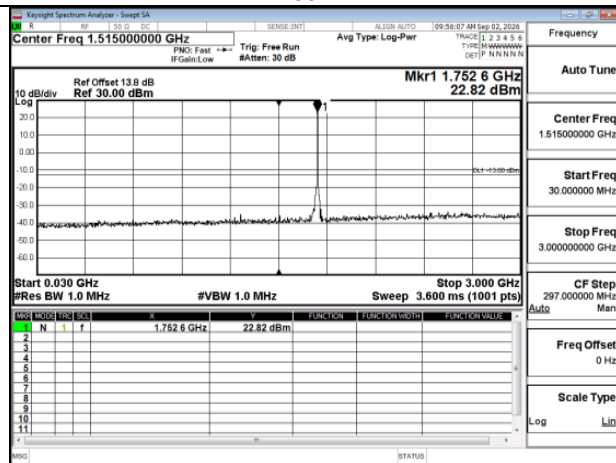
HSDPA_HSDPA_B2_High CH9538-1907.6_HighCH9538-1907.6



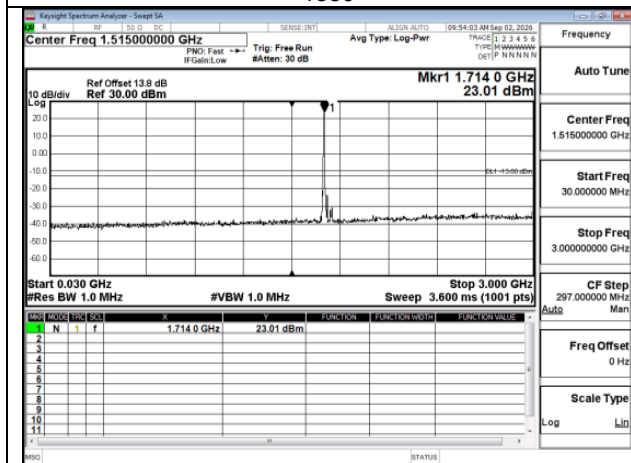
HSDPA_HSDPA_B2_Low CH9262-1852.4_LowCH9262-1852.4



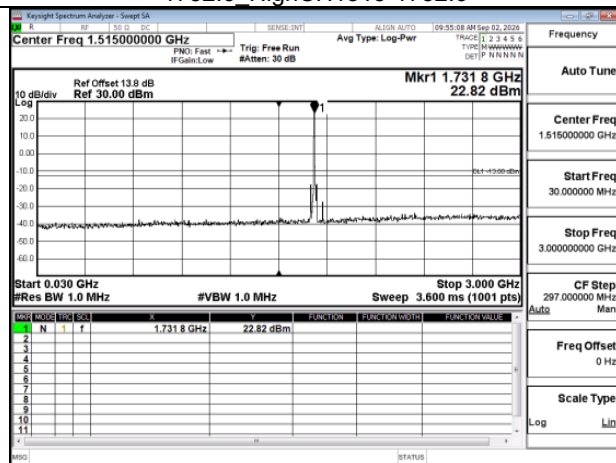
HSDPA_HSDPA_B2_Mid CH9400-1880_MidCH9400-1880



HSDPA_HSDPA_B4_High CH1513-1752.6_HighCH1513-1752.6



HSDPA_HSDPA_B4_Low CH1312-1712.4_LowCH1312-1712.4



HSDPA_HSDPA_B4_Mid CH1413-1732.6_MidCH1413-1732.6

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